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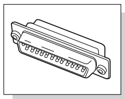	Connectors, Cable Assemblies, IC Sockets........... 28-568	INCLUDES SMT	A
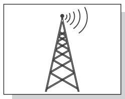	Active RF Product and Antennas 569-635	INCLUDES SMT	B
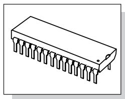	Semiconductors, ICs, Transistors, Diodes, Rectifiers 636-1453	INCLUDES SMT	C
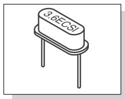	Crystals, Oscillators........1454-1522	INCLUDES SMT	D
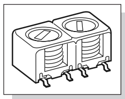	Inductors, Coils, Filters 1523-1677	INCLUDES SMT	E
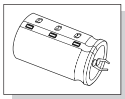	Capacitors 1678-1997	INCLUDES SMT	F
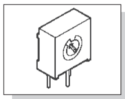	Resistors, Potentiometers....1998-2137	INCLUDES SMT	G
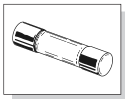	Circuit Protection Components and PTC Thermistors ... 2138-2233	INCLUDES SMT	H
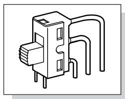	Switches, Relays, Electro-mechanical.......2234-2437	INCLUDES SMT	I
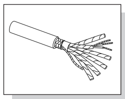	Wire, Cable & Access., Buzzers, Mics, Speakers....2438-2470		J
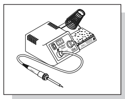	Enclosures, Tools, Solder, Test Equipment....2471-2563	INCLUDES SMT	K
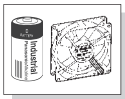	Batteries, Fans, Thermal Management...... 2564-2606	INCLUDES SMT	L
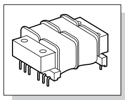	Transformers, Power Supplies....2607-2694	INCLUDES SMT	M
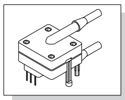	Sensors, Industrial Controls and NTC Thermistors ...2695-2784	INCLUDES SMT	N
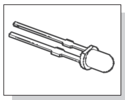	Optoelectronics, LEDs, LCDs, Lasers, Displays...2785-2896	INCLUDES SMT	O

Digi-Key® Services

Product Information

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Digi-Key has the capability to program a wide variety of devices. For more information regarding programming, contact the Custom Department at 1-800-344-4539 (ext. 5725) or email: custom.orders@digikey.com.

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Digi-Key offers several different types of ribbon cable assemblies in a number of *standard* lengths. We also provide assorted pre-terminated jumper wires in several different colors and lengths as standard products.

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Additional Information

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Department Information

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Conversion Table

inch *to* mm	inch x 25.4	mm *to* inch	mm ÷ 25.4	°C *to* °F	(C x 1.8) + 32
inch *to* cm	inch x 2.54	cm *to* inch	cm x .3937	°F *to* °C	(F - 32) ÷ 1.8
feet *to* meters	foot x .3048	meters *to* feet	meter x 3.28084	ounce *to* gram	oz. x 28.349

Voltage = Current x Resistance

Watts = Volts x Amps

VA = Volts x Amps

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    - Diodes 2155

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    - Pliers/Cutters 2524
    - Screwdrivers......................... 2523-2524
- **Xeltek**
  - Programmers, Universal 637
  - Socket Adapters................................. 637
- **Xicor**
  - See Intersil
- **Xilinx**
  - CPLDs 640-641
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  - FPGAs 638-639, 641
  - Programming Cable 640
  - Serial PROMs..................................... 641
  - Splitters.. 640
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  - Development Kits................................ 799
  - Microprocessors 799

Y

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  - Capacitors................................ 1989-1992
    - Ceramic 1989-1992
      - Multilayer Chip................... 1989-1992
    - X2Y®.. 1992
  - Resistors
    - Arrays 2085
    - Carbon Film 2033, 2037
    - Ceramic Metal Plate 2035
    - Current Sense 2022
    - High Voltage 2036
    - Kits 2024-2026, 2033-2034, 2562
    - Metal Film 2033-2035, 2037, 2039
    - Metal Oxide 2033-2034
    - Thick Film 2024-2026
    - Thin Film.. 2023
    - Wirewound......... 2033, 2036, 2038-2039
    - Zerohm Jumper Wires 2033

Z

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    - Z8 Encore!® 741-743
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  - Peripheral Controllers.......................... 865
  - Serial Communication Controllers 865-866

MAIL/FAX ORDER FORM

#US2011

Digi-Key CORPORATION

701 Brooks Avenue South
PO Box 677
Thief River Falls, MN 56701-0677

	No. of Pages:
To:	**From:**
Co.: Digi-Key Corporation	**Co.:**
Dept.: Order Department	**Phone No:**
Fax No: 218-681-3380	**Fax No:**

(Please Check One)
Payment Method: ☐ COD ☐ Check or MO ☐ Open Acct.

**In efforts to help keep our customer's personal information safe, please contact Digi-Key Sales or use Digi-Key's on-line ordering if preferred method of payment is by credit card.*

☐ Personal Order ☐ Company Order *(Please Check One)*

Ship to:

Customer Number ______________________

Customer Name ______________________ **Phone ( )** ______________________

Company Name ______________________ **Email** ______________________

Shipping Address ______________________ **Apartment/Suite** ______________________

City ______________________ **State** __________ **Zip** __________

Bill to:

P.O. No. ______________________ **Account No.** ______________________

Company Name ______________________ **Phone ( )** ______________________

Billing Address ______________________ **Apartment/Suite** ______________________

City ______________________ **State** __________ **Zip** __________

	Quantity	Digi-Key Part No.	Description (brief)	Price/Unit	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Ship Via: ______________________

Are substitutions acceptable?
☐ Yes ☐ No

Are backorders acceptable?
☐ Yes ☐ No

Backordered for a period of ______ days.

Backorder shipping method: __________

Confirmation required?
☐ Yes ☐ No

Confirm VIA: ☐ Phone ☐ FAX ☐ Email

SHIPPING INFORMATION

We pay all shipping (our choice of method) and insurance to addresses in the USA and Canada when check or money order accompanies order. See "Shipping Charges" in the Digi-Key Terms and Conditions for details on heavy/oversize items.

1. Total of all items .... **$** __________

2. Sub Total .... **$** __________

3. Please remit any applicable taxes .... **$** __________

4. Total enclosed .... **$** __________
(Total of all lines) **(US Dollars)**

ALL ORDERS SUBMITTING VIA THIS ORDER FORM ARE SUBJECT TO THE TERMS AND CONDITIONS, INCLUDING, WITHOUT LIMITATION, THE WARRANTY DISCLAIMERS AND LIMITATIONS ON LIABILITY, BEGINNING ON THE REVERSE SIDE OF THIS ORDER FORM.

Digi-Key Terms and Conditions

All orders placed with Digi-Key Corporation (“Digi-Key”) for products available from Digi-Key (the “Products”) are subject to these terms and conditions (the “Agreement”). Any purported change to the terms of this Agreement that is submitted by a purchaser in any additional documentation is hereby expressly rejected. Orders placed on forms deviating from the order form provided in this catalog (the “Order Form”) may be accepted, but solely on the basis that the terms of such Order Form and this Agreement will prevail.

1. Order Validation and Acceptance

When you place an order, we may verify your method of payment, shipping address and/or tax exempt identification number, if any, before processing your order. Your placement of an order with Digi-Key is an offer to purchase our Products. Digi-Key may accept your order by processing your payment and shipping the Product, or may, for any reason, decline to accept your order or any part of your order. No order shall be considered to be accepted by Digi-Key until the Product has been shipped. If we decline to accept your order, we will attempt to notify you using the email address or other contact information you have provided with your order. Delivery dates provided in connection with any order are estimates only and do not represent fixed or guaranteed delivery dates.

2. Quantity Limitations

Digi-Key may limit or cancel quantities available for purchase on any order on any basis, and to alter the availability or duration of any special offers at any time. Digi-Key may reject any order, or any part of an order.

3. Electronic Communication

When you place an order with Digi-Key, you are required to provide valid contact information, which we may use to communicate with you regarding the status of your order, advise you regarding shipment of backordered products, and to provide you with any other notices, disclosures or other communications relating to your order. You agree that Digi-Key will not be responsible for any damage you incur, or information you do not receive, as a result of your failure to provide valid contact information.

4. Pricing and Product Information

Digi-Key purchases all Products directly from their respective original manufacturer. Digi-Key makes reasonable efforts to provide current and accurate information relating to the Products and prices, but does not guarantee the currency or accuracy of any such information. Information relating to Products is subject to change without notice. Prices are subject to change at any time prior to Digi-Key's acceptance of your order. In the event we discover a material error in the description or availability of a Product that affects your outstanding order with Digi-Key, or an error in pricing, we will notify you of the corrected version, and you may choose to accept the corrected version, or cancel the order. If you choose to cancel the order, and your credit card has already been charged for a purchase, Digi-Key will issue a credit to your credit card in the amount of the charge.

5. Late Payments; Dishonored Checks

You shall pay Digi-Key all costs incurred by Digi-Key in collecting any past due amount from you, including all court costs, collection costs, and attorney's fees. If a check you give us for payment is dishonored for any reason by the bank or other institution on which it is drawn, you agree to pay us $20.00 as a service charge (if the check cannot be redeposited) pursuant to Minnesota Statutes § 604.113.

6. Out of Stock

If product you order is out of stock at time of order placement, you may elect to have it shipped on a subsequent shipment. Additional shipping charges will apply to each shipment. Backorders will be held based on your request.

7. Export Compliance

In addition to the United States and its territories, Digi-Key accepts international orders. Some Products may not be available for shipment outside the United States. All orders of international origin or destination are subject to export control laws, restrictions, regulations and orders of the United States. You agree to comply with all applicable export control laws, restrictions, regulations and orders of the United States or applicable foreign agencies or authorities. You shall not, directly or indirectly, sell, export, transfer, assign, use, or dispose of Products in a manner which may result in any non-compliance with applicable export control laws, restrictions, regulations, and orders of the United States or applicable foreign agencies or authorities. You are responsible for obtaining any license or other official authorizations that may be required to export, re-export or import Products. Diversion contrary to U.S. law is prohibited.

8. Freight Damage

If you receive merchandise that has been damaged in transit, it is important to keep the shipping carton, packing material and parts intact. Please contact a Digi-Key Customer Service representative immediately to initiate a claim.

9. Disclaimer of Warranties

Digi-Key agrees to transfer to you, at the time of sale, to the extent transferable, whatever warranties Digi-Key receives from manufacturers with respect to the Products sold by Digi-Key to you. COPIES OF SUCH MANUFACTURERS' WARRANTIES ARE AVAILABLE PRIOR TO THE PURCHASE OF PRODUCTS BY CONTACTING DIGI-KEY. DIGI-KEY, AND ITS AFFILIATES, INCLUDING, WITHOUT LIMITATION, DIGI-KEY INTERNATIONAL SALES CORPORATION (THE “DIGI-KEY PARTIES”), MAKE NO EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO ANY PRODUCT AND THE DIGI-KEY PARTIES EXPRESSLY DISCLAIM ALL WARRANTIES OF ANY KIND, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT WITH REGARD TO THE PRODUCTS. THE DIGI-KEY PARTIES DO NOT WARRANT THAT THIS CATALOG IS ERROR-FREE OR THAT ERRORS IN THE CATALOG WILL BE CORRECTED. THE DIGI-KEY PARTIES DO NOT WARRANT THE ACCURACY OR COMPLETENESS OF THIS CATALOG. THE PRODUCTS ARE SOLD ON AN AS-AVAILABLE BASIS.

Your obligations and Digi-Key's remedies with respect to defective or nonconforming products, are solely and exclusively as stated in this Agreement.

10. Additional Disclaimers

Without limiting the disclaimers set forth in Section 9 above:

a. No Use as Critical Components

Products sold by Digi-Key are not authorized for use in life safety, life support, life sustaining, surgical, human implant, nuclear, military, or aircraft applications or for any use or application in which the failure of a single component could cause substantial harm to persons or property, unless an authorized officer of the manufacturer has signed an agreement specifically governing such use. YOU AGREE TO INDEMNIFY THE DIGI-KEY PARTIES AND THE MANUFACTURER OF THE PRODUCTS FOR ALL DAMAGES THAT MAY BE INCURRED DUE TO USE OF PRODUCTS IN THESE APPLICATIONS.

b. Technical Assistance and Design Support Services

Digi-Key offers its Technical Assistance and Design Support Services solely as a convenience to Digi-Key customers. Digi-Key Technical Assistance and Design Support Services personnel strive to provide useful information regarding the Products. Digi-Key does not guarantee that any information or recommendation provided is accurate, complete, or correct, and Digi-Key shall have no responsibility or liability whatsoever in connection with any information or recommendation provided, or your reliance on such information or recommendation. You are solely responsible for analyzing and determining the appropriateness of any information or recommendation provided by Digi-Key Technical Assistance and Design Support Services Personnel, and any reliance on such information or recommendation is at your sole risk and discretion.

c. Geographic Limitations

Not all Digi-Key products or services are available to all persons or in all geographic locations. Digi-Key reserves the right to limit the provision of Products and services to any person, geographic area, or jurisdiction and to limit the quantities of any products or services that it provides.

d. Infringement Disclaimer

The Products may be subject to patent, trademark, copyright, design and other rights of third parties. Digi-Key shall in no event whatsoever be responsible or liable in the event of any claim of infringement of any such rights. If an order includes software or other intellectual property, such software or other intellectual property is provided by Digi-Key to you subject to the copyright and user license, the terms and conditions of which are set forth in the license agreement accompanying such software or other intellectual property. Nothing herein shall be construed to grant any rights or license to use any software or other intellectual property in any manner or for any purpose not expressly permitted by such license agreement.

11. Limitation of Liability

IN NO EVENT SHALL ANY OF THE DIGI-KEY PARTIES BE LIABLE TO YOU OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST SAVINGS, OR LOSS OF BUSINESS OPPORTUNITY) ARISING OUT OF OR RELATING TO (I) ANY PRODUCT OR SERVICE PROVIDED OR TO BE PROVIDED BY DIGI-KEY, OR THE USE OR INABILITY TO USE THE SAME, (II) ANY CLAIM ATTRIBUTABLE TO ERRORS, OMISSIONS, OR OTHER INACCURACIES IN THIS CATALOG, OR (III) ANY OTHER MATTER RELATING TO THE PRODUCTS OR SERVICES OF ANY OF THE DIGI-KEY PARTIES; EVEN IF ANY OF THE DIGI-KEY PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SUBJECT TO THE FOREGOING, IN NO EVENT SHALL THE LIABILITY OF ANY OF THE DIGI-KEY PARTIES FOR PRODUCTS EXCEED THE PURCHASE PRICE FOR THE PRODUCTS, REGARDLESS OF THE LEGAL THEORY ASSERTED FOR SUCH LIABILITY, WHETHER IN CONTRACT, TORT, WARRANTY OR OTHERWISE.

Any cause of action against any of the Digi-Key Parties with respect to Products or services must be instituted within one (1) year from the date of purchase or provision of the applicable Products or services.

12. Indemnification

You understand and agree that you are personally responsible for your use or inability to use the Products and your reliance upon any information or recommendation provided by Digi-Key Technical Assistance and Design Support Services Personnel. You agree to indemnify, defend and hold harmless the Digi-Key Parties and Digi-Key’s joint venturers, business partners, licensors, employees, and agents from and against all claims, losses, expenses, damages and costs (including, but not limited to, direct, incidental, consequential, exemplary and indirect damages), and reasonable attorneys' fees, resulting from or arising out of your use, misuse, or inability to use the Products and any service of Digi-Key, your reliance upon any information or recommendation provided by Digi-Key Technical Assistance and Design Support Services Personnel, or any violation by you of this Agreement.

13. Force Majeure

Digi-Key will not be liable for delays in delivery or for failure to perform its obligations due to causes beyond its reasonable control including, but not limited to, product allocations, material shortages, labor disputes, transportation delays, unforeseen circumstances, acts of God, acts or omissions of other parties, acts or omissions of civil or military authorities, Government priorities, fires, strikes, floods, severe weather conditions, computer interruptions, terrorism, epidemics, quarantine restrictions, riots or war. Digi-Key's time for delivery or performance will be extended by the period of such delay or Digi-Key may, at its option, cancel any order or remaining part thereof, without liability by giving notice to you.

14. General Provisions

This Agreement constitutes the entire agreement of the parties with respect to the subject matter hereof. No waiver by Digi-Key of any breach or default hereunder shall be deemed to be a waiver of any preceding or subsequent breach or default. If any part of the Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, it will not impact any other provision of the Agreement, all of which will remain in full force and effect. Any and all disputes relating to the Agreement are governed by, and will be interpreted in accordance with, the laws of the State of Minnesota, without regard to any conflict of laws provisions. The 1980 United Nations Convention on Contracts for the International Sale of Goods and the United Nations Convention on the Limitation Period in the International Sale of Goods, and any subsequent revisions thereto, do not apply to this Agreement. Any Dispute will be venued in a state or federal court situated in Minneapolis, Minnesota, and you hereby irrevocably submit to the personal jurisdiction of such courts for that purpose. No rights, duties, agreements or obligations hereunder, may be assigned or transferred by operation of law, merger or otherwise, without the prior written consent of Digi-Key. The obligations, rights, terms and conditions hereof will be binding upon and inure solely to the benefit of the parties hereto and their permitted respective successors and assigns. Any amendment to this Agreement must be in writing and signed by an authorized representative of Digi-Key.

15. Currency Information

This catalog is designed exclusively for purchases in U.S. dollars. For orders in currencies other than U.S. dollars, please visit www.digikey.com, click on “Change Country” and select the appropriate country/currency-specific website for ordering information. Print catalogs for certain non-U.S. currency countries (including Canada) are available upon request. If ordering by phone, please advise Digi-Key’s sales representative of your currency preference when placing your order.

16. Payment

Digi-Key offers the following payment methods for payments in U.S. dollars:

For United States customers: We offer check, money order, MasterCard, VISA, American Express, Discover, C.O.D. and prepaid by wire transfer as well as open account credit to qualified institutions and businesses. Payment must be made in the currency in which the order was placed.

For Canadian customers: We offer all of the above payment options except Discover and C.O.D.

For Other International customers: We offer MasterCard, VISA, American Express, prepaid by wire transfer, cashier's check in U.S. funds, as well as open account credit to qualified institutions and businesses. We cannot accept personal checks or certified personal checks. Money orders can result in significant delays. Use of Letters of Credit must be approved in advance by Digi-Key's Accounting Department.

Credit Application: To obtain a credit application for open account credit, contact any sales representative by:

- for U.S. and Canadian customers, calling 800-344-4539 or 218-681-6674,
- for all other customers, calling 218-681-7979, or
- for all customers, faxing your request to 218-681-3380.

Or, you may download a credit application from our website, www.digikey.com (click on “Contact Us”, then click on “Net 30 Term Credit Application” in the “Accounting” box). Please allow sufficient time for the credit application process. To avoid delay on your initial order you may elect an alternative payment method.

17. Shipping Charges

Except as otherwise provided, (1) shipping or freight charges and insurance will be paid by the customer*, (2) all sales are made FOB Digi-Key’s warehouse in Thief River Falls, MN, USA, and (3) shipping or freight charges from Digi-Key's warehouse in Thief River Falls, MN, USA are prepaid and added to the invoice, billed collect or billed to a third party.

* When a check or money order accompanies your order, Digi-Key pays all shipping and insurance (our choice for method of shipping) to all addresses in the U.S. and Canada. Shipments of excessive weight or size, or with otherwise unique circumstances, may require additional charges. Digi-Key will notify you prior to shipment if these conditions exist.

For International Shipments: Availability of ship methods is dependent on the destination country. The shipping costs will be prepaid and added to your order. Except as otherwise agreed by Digi-Key, all duties, tariffs, taxes and brokerage fees will be your responsibility. See the International Shipping Rates set forth on www.digikey.com (click on “Site Map”, then click on “Shipping Rates/Options” under “Shipping Information”, then click on “International Shipping Rates”).

18. Handling Charge

There is no minimum order or handling fee.

19. Taxes

Prices shown do not include any federal, state or local taxes, or any other taxes imposed by any government authority, including, without limitation, sales, use, excise, value-added or similar taxes. Where applicable, such taxes and charges shall be billed as a separate item and paid by you. Orders are accepted with the understanding that such taxes and charges shall be added, as required by law. Digi-Key charges sales tax unless you have a valid sales tax exemption certificate on file with Digi-Key. Digi-Key will not refund tax amounts collected in the event a valid sales tax certificate is not provided. If you provide a certificate that is not accepted for any reason by any governmental or regulatory authority, and Digi-Key is required to pay tax on your purchase, you will reimburse Digi-Key for the amount of such tax, and Digi-Key's reasonable expenses incurred in connection with the payment and collection of such tax. Fax your resale certificate and your customer number to 218-681-7931, Attention: Sales Tax.

20. Return Policy

In most cases, Digi-Key will accept merchandise returns subject to the terms outlined in this Section and will replace the Product or refund your money at your option.

To facilitate processing of returned merchandise:

- Please contact a Customer Service representative to obtain an RMA (Returned Merchandise Authorization) number prior to returning product.
- For all returns not relating to manufacturers’ warranties, returns must be made within 30 days of date of invoice, be accompanied by the original invoice number and a brief explanation of the reason for the return, and be in original packaging and in resalable condition.
- Return freight charge must be prepaid. Sorry, C.O.D. returns cannot be accepted.
- Products returned solely due to customer error may be subject to a restocking charge.
- To the extent that Digi-Key purchases a Product from a manufacturer specifically for you, such Products may be Non-Cancelable/Non-Returnable.
- "Not-In Catalog Items" and parts specified as "Non-Cancelable/Non-Returnable" at time of quote or sale are not returnable.
- Returns relating to manufacturers’ warranties are subject to the terms and conditions of the applicable manufacturer’s warranty and the applicable manufacturer’s return policies for the Product (e.g., some Products may require return directly to the manufacturer). Please contact a Digi-Key Customer Service representative for details.

By returning a Product to Digi-Key, you represent and warrant that the returned Product was purchased from Digi-Key.

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Ordering / Contact Information

How to Order:

❐ By Telephone: 800-344-4539 (US & Canada) or 218-681-6674

Our friendly sales representatives are ready to serve you 24 hours a day, 7 days a week, 365 days a year. For most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card. *Note:* Calls may be recorded or monitored for quality and training purposes.

❐ By Fax: 218-681-3380

Digi-Key Fax lines can be accessed 24 hours a day, 7 days a week, 365 days a year. Depending on the shipping method; fax orders will be processed and shipped according to the “Orders entered by times” listed under ***Shipment***. Orders received after these cutoff times will be processed and shipped the next business day. Please include your daytime telephone number and/or email address in case we have any questions about your order.

❐ By Internet: www.digikey.com

Order on-line 24 hours a day, 7 days a week, 365 days a year. Digi-Key’s Top Rated website receives hundreds-of-thousands of orders each year. Internet orders entered after normal business hours are promptly processed and shipped the next business day.

❐ By Mail: Simply Mail Your Order To:

Digi-Key Corporation
701 Brooks Avenue South
PO Box 677
Thief River Falls, MN 56701-0677

International customers please see “Currency Information” in the Digi-Key Terms and Conditions for more information.

Shipment:

Digi-Key’s warehouse is open and staffed Monday through Friday, 7:30am-9:00pm Central Time (subject to holidays). Orders are shipped only on these business days. Orders and correspondence received on Saturday and Sunday will be addressed/shipped on the following Monday and included in that day’s business.

Digi-Key’s cut-off times for Same-Day Shipment Monday-Friday are as follows:

- Orders entered by 6:00pm CT – All USPS Options (Express Mail delayed 1 day).
- Orders entered by 7:00pm CT – FedEx ground.
- Orders entered by 8:00pm CT – All UPS air and surface options; All FedEx air options.

Customer Service:

Voice: 800-858-3616 in (US & Canada) or 218-681-6674
Fax: 218-681-3380
Internet: www.digikey.com (click “Contact Us”)
Mail: Digi-Key Corporation
Attn: Customer Service
PO Box 677
Thief River Falls, MN 56701-0677

A friendly, competent staff of customer service representatives is available 24 hours a day, 7 days a week, 365 days a year to assist you. Please have your sales order or invoice number available when you call.

Additional Information

Duplicate Mailings:

If you receive more than one catalog with the same name and address, please return the labels to Digi-Key and pass the catalog along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify your mailing information. A forms based communications method for catalog issues (Receive, Remove, Change of Address) can be accessed at www.digikey.com by clicking “Contact Us”. Alternatively, you may mail, telephone or fax Digi-Key your request.

Recycling And The Environment:

Digi-Key is committed to the environment and you, our valued customer. We use Geämi, a 100% recyclable packaging product. Both the outer and inner tissue can be put in your newspaper bin for recycling. This catalog was produced with paper containing 33% post consumer fiber and may be recycled through a paper board recycling program.

Privacy Policy:

Your privacy as a customer is very important to us. We want you to know how your customer information is used. Once you make a purchase, request a catalog or other information from Digi-Key, your name, shipping/mailing address, telephone number, email address and fax number are included in our customer file. This information is used to ensure a quick, efficient flow of products and services to you. This information may also be used for other purposes as outlined below.

Postal Addresses: Digi-Key may use your mailing address to send the Digi-Key catalog to keep you updated on our most current products and services. Occasionally, Digi-Key may make the names and addresses of our customer list available to carefully screened companies that offer products and/or services that may be of interest to you.

Email Addresses: Email addresses may be used to communicate information of interest to you about Digi-Key. This includes Order Shipment/Tracking Information, Obsolete Part Bulletins, Service Change Information or other Digi-Key promotional emails. Emails may be sent by Digi-Key or an authorized agent working for Digi-Key. All authorized agents operate with a confidentiality agreement. Information sent in this manner will always include “opt out” options. Email addresses are never rented, sold or traded to third parties.

Opt Out: You may elect to opt out of any of the above uses of your customer information by completing the “Opt Out” form in our privacy statement on our website or by contacting us by telephone, fax or mail.

Other Uses Of Customer Information: Digi-Key is under contract to provide point of sale information to many of its product suppliers for market research and payment of commission to the supplier’s agents. If you have an open account with Digi-Key, credit and payment history will periodically be shared with credit reporting agencies. Customer information is also used for marketing and market research for Digi-Key Corporation. Digi-Key or an authorized agent working for Digi-Key may complete these activities. All customer information is kept confidential. Digi-Key will share customer information with government agencies if required by law.

Note: We reserve the right to make changes to our privacy policy at any time without prior notification.

ISO 9001:2000 Certified:

Digi-Key’s operations from order entry through shipping have been certified since March 17, 1994. A copy of Digi-Key Corporation’s current ISO Certificate is available by request.

molex Connector Kits

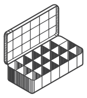

Description	Digi-Key Part No.	Price Each	Molex Part No.
Picoflex® Connector Kits			
IDT Board-In Right Angle Receptacle Header Kit	WM8449-ND	14.53	76650-0121
Right Angle Header and IDT Receptacle Kit	WM8450-ND	12.24	76650-0122
SMT Vertical Header and IDT Receptacle Kit	WM8451-ND	13.18	76650-0123
Deluxe SMT Vertical and Right Angle Header, Receptacle and IDT Board-In Receptacle Header Kit	WM8452-ND	27.62	76650-0124
Sealed RJ-45 Industrial Connector Kit In-Line, PCB and Panel Mount Receptacle, Plug, Receptacle and Dust Cover	WM8495-ND	111.96	76650-0174
Sealed USB Industrial Connector and Cable Kit Type A and B Shielded Panel Mount Plug, Receptacle and Cable, IP-67	WM8467-ND	101.88	76650-0142
Sealed USB and RJ-45 Industrial Connector and Cable Kit Sealed Bayonet-Style Plug Receptacle and Cable	WM8472-ND	91.32	76650-0149
FPC Connector Kit Ultra Low Profile SMT ZIF Right Angle Receptacle	WM1045-ND	33.76	76650-0004
FFC/FPC Connector Kit Ultra Low Profile SMT ZIF Right Angle Receptacle and Premo-Flex Cable	WM1046-ND	51.31	76650-0005
Wire Tap Connector Kit Nylon Tap-and-Run Splice Wire Tap and Nylon Insulated Male Quick Disconnect Solderless Terminals	WM1051-ND	6.49	76650-0050
PicoBlade™ Connector Kits			
Friction Lock Plug and Receptacle	WM8453-ND	27.10	76650-0125
SMT Friction Lock Vertical Header and Receptacle	WM8454-ND	39.87	76650-0126
SMT Friction Lock Right Angle Header and Receptacle	WM8455-ND	44.30	76650-0127
SMT Friction Lock Vertical and Right Angle Header and Receptacle	WM8457-ND	66.24	76650-0129
Deluxe Friction Lock Plug, Receptacle and SMT Header	WM8456-ND	96.81	76650-0128
Multi Connector SMT Off the Board Solution	WM9040-ND✔	68.12	76650-0236
Pico-SPOX™ Connector Kit SMT Vertical and Right Angle Header and Receptacle	WM8431-ND	45.63	76650-0003
Micro Miniature Application Kit Includes CLIK-Mate™, PanelMate™, Sherlock™, Pico-SPOX™ and MicroClasp™ Product Families	WM8473-ND	47.23	76650-0150
PanelMate™ Connector Kit Ultra Low Profile SMT Right Angle Header and Receptacle	WM8486-ND	49.18	76650-0165
Sherlock™ Connector Kit Secure and Space Saving Vertical and Right Angle Header and Receptacle	WM8479-ND	16.19	76650-0156
Milli-Grid™ Connector Kit			
Vertical and Right Angle Header, IDT Receptacle	WM8496-ND	55.45	76650-0175
Shrouded Gold Vertical Header and Receptacle	WM8504-ND	16.36	76650-0187
Vertical Header and IDT Receptacle	WM8505-ND	54.90	76650-0188
Deluxe Connector Kit; (Rectangle Free Hanging Header, Housing)	WM8510-ND	71.04	76650-0195
Micro-Blade™ Connector Kits			
Friction Lock Vertical and Right Angle Header and Receptacle	WM8543-ND	34.40	76650-0106
Friction Lock Right Angle Header and Receptacle	WM8544-ND	35.44	76650-0108
Friction Lock Vertical Header and Receptacle	WM8545-ND	35.37	76650-0109
iGrid™ Connector Kits			
Positive Lock Vertical Header and Receptacle	WM8513-ND	30.21	76650-0199
Positive Lock Vertical Header and Receptacle	WM8514-ND	45.35	76650-0200
Positive Lock Right Angle Header and Receptacle	WM8515-ND	31.74	76650-0201
Positive Lock Right Angle Header and Receptacle	WM8516-ND	46.11	76650-0202
Positive Lock Solution Multi Connector	WM9039-ND✔	34.14	76650-0235
Micro-Latch™ Connector Kits			
Friction Lock Vertical Header and Receptacle	WM8440-ND	13.61	76650-0112
Friction Lock Vertical and Right Angle Header and Receptacle	WM8442-ND	20.12	76650-0114
Friction Lock Right Angle Header and Receptacle	WM8441-ND	13.42	76650-0113
Mini-Lock™ Connector Kits			
Fully Shrouded Positive Lock Right Angle Header and Receptacle	WM8444-ND	17.02	76650-0116
Fully Shrouded Positive Lock Vertical Header and Receptacle	WM8443-ND	17.51	76650-0115
Deluxe Fully Shrouded Positive Lock Vertical and Right Angle Header and Receptacle	WM8445-ND	31.67	76650-0117
Deluxe Fully Shrouded Positive Lock Vertical and Right Angle Header and Receptacle	WM8459-ND	36.85	76650-0134
Mini-SPOX™ Connector Kit Vertical and Right Angle Header and Receptacle	WM8488-ND	36.74	76650-0167
Mini-Latch™ Connector Kits			
Friction Lock Vertical Header and Receptacle	WM8539-ND	11.05	76650-0225
Friction Lock Right Angle Header and Receptacle	WM8540-ND	14.53	76650-0226
Friction Lock Vertical and Right Angle Header and Receptacle	WM8541-ND	25.96	76650-0227
Multi Connector Off the Board Solution	WM9034-ND✔	24.30	76650-0230
KK .100™ Connector Kits			
.100 Pitch Receptacle and Terminals, 2 Circuit	WM8364-ND	2.67	76650-0089
.100 Pitch Receptacle and Terminals, 4 Circuit	WM8363-ND	2.83	76650-0090
.100 Pitch Receptacle and Terminals, 6 Circuit	WM8367-ND	3.31	76650-0091
.100 Pitch Receptacle and Terminals, 8 Circuit	WM8373-ND	3.16	76650-0092
.100 Pitch Receptacle and Terminals, 10 Circuit	WM8375-ND	3.49	76650-0093
.100 Pitch Vertical and Right Angle Header and Receptacle, 2 Circuit	WM8517-ND	2.88	76650-0203
.100 Pitch Vertical and Right Angle Header and Receptacle, 4 Circuit	WM8518-ND	3.90	76650-0204
.100 Pitch Vertical and Right Angle Header and Receptacle, 6 Circuit	WM8519-ND	5.57	76650-0205
.100 Pitch Vertical and Right Angle Header and Receptacle, 8 Circuit	WM8520-ND	3.76	76650-0206
.100 Pitch Vertical and Right Angle Header and Receptacle, 10 Circuit	WM8521-ND	4.32	76650-0207
Vertical and Right Angle Header and Receptacle, with Extraction and Universal Crimp Tool	WM9803-ND	25.20	76650-0007
Vertical and Right Angle Header and Receptacle	WM9038-ND✔	55.19	76650-0234
Mar KK™ Power Connector Kit KK Breakaway Vertical and Right Angle Header and Receptacle with Universal Crimp Tool	WM8511-ND	22.41	76650-0196
KK .156™ Connector Kits			
.156 Pitch Receptacle and Terminals, 2 Circuit	WM8380-ND	2.67	76650-0094
.156 Pitch Receptacle and Terminals, 3 Circuit	WM8383-ND	3.13	76650-0095
.156 Pitch Receptacle and Terminals, 4 Circuit	WM8382-ND	2.56	76650-0096
.156 Pitch Receptacle and Terminals, 5 Circuit	WM8390-ND	2.92	76650-0097
.156 Pitch Receptacle and Terminals, 6 Circuit	WM8381-ND	3.41	76650-0098
.156 Pitch Receptacle and Terminals, 10 Circuit	WM8438-ND	3.74	76650-0099
.156 Pitch Receptacle without Ramp and Terminals, 2 Circuit	WM8388-ND	2.70	76650-0100
.156 Pitch Receptacle without Ramp and Terminals, 3 Circuit	WM8391-ND	2.87	76650-0101
.156 Pitch Receptacle without Ramp and Terminals, 4 Circuit	WM8392-ND	2.56	76650-0102
.156 Pitch Receptacle without Ramp and Terminals, 5 Circuit	WM8396-ND	2.87	76650-0103
.156 Pitch Receptacle without Ramp and Terminals, 6 Circuit	WM8387-ND	3.41	76650-0104
.156 Pitch Receptacle without Ramp and Terminals, 10 Circuit	WM8385-ND	3.67	76650-0105
Vertical and Right Angle Header and Receptacle, with Extraction and Universal Crimp Tool	WM9804-ND	23.82	76650-0008
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 2 Circuit	WM8522-ND	2.86	76650-0208
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 3 Circuit	WM8523-ND	4.06	76650-0209
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 4 Circuit	WM8524-ND	3.66	76650-0210
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 5 Circuit	WM8525-ND	4.99	76650-0211
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 6 Circuit	WM8526-ND	2.86	76650-0212
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle, 10 Circuit	WM8527-ND	5.01	76650-0213
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 2 Circuit	WM8528-ND	2.82	76650-0214
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 3 Circuit	WM8529-ND	3.44	76650-0215
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 4 Circuit	WM8530-ND	3.06	76650-0216
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 5 Circuit	WM8531-ND	4.29	76650-0217
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 6 Circuit	WM8532-ND	2.57	76650-0218
.156 Pitch Single Row Vertical and Right Angle Header and Receptacle without Ramp, 10 Circuit	WM8533-ND	4.49	76650-0219
SL™ Signal Connector Kit High Vibration Signal Vertical and Right Angle Header and Receptacle	WM8491-ND	32.61	76650-0170
C-Grid III™ Connector Kits			
Single Row Vertical Header and Receptacle	WM8498-ND	29.49	76650-0177
Dual Row Vertical Header and Receptacle	WM8499-ND	40.04	76650-0178
Dual Row Right Angle Header and Receptacle	WM8500-ND	40.61	76650-0179
Micro-Fit 3.0™ Power Connector Kit			
3mm Pitch Single Row Free Hanging Plug and Receptacle	WM8480-ND	44.45	76650-0159
Multi Connector Free Hanging Solution	WM9033-ND✔	37.83	76650-0229
Multi Connector Power Solution	WM9035-ND✔	39.13	76650-0231
Deluxe Multi BMI Blind Mate Application Kit Includes EBBI 50D, SPOX BMI™, Micro-Fit 3.0 BMI™, Mini-Fit BMI™ Product Families	WM8471-ND	64.61	76650-0146
Plateau HS Mezz™ Connector Kit			
High Speed Mezzanine Gold Plug and Receptacle	WM8458-ND	61.67	76650-0130
Multi Connector High Speed Solution	WM9036-ND✔	103.95	76650-0232
Deluxe Multi Board Stacking Application Kit Includes KK100®, HDM®, EBBI™ 50D, SEARAY™, Plateau HS Mezz™, IEEE1386, SlimStack™ Product Families	WM8546-ND	146.20	76650-0192
Mini-Fit Jr.™ Power Connector Kits			
Free Hanging Plug and Receptacle, 3-9A, 250V	WM1047-ND	26.88	76650-0017
Plug and Receptacle, 2 Circuit	WM8360-ND	1.75	76650-0074
Plug and Receptacle, 4 Circuit	WM8359-ND	2.23	76650-0075
Plug and Receptacle, 6 Circuit	WM8369-ND	2.71	76650-0076
Plug and Receptacle, 8 Circuit	WM8377-ND	3.20	76650-0077
Plug and Receptacle, 10 Circuit	WM8389-ND	3.98	76650-0078
Plug and Receptacle, 12 Circuit	WM8393-ND	4.45	76650-0079
Plug and Receptacle, 14 Circuit	WM8398-ND	5.34	76650-0080
Plug and Receptacle, 16 Circuit	WM8397-ND	6.07	76650-0081
Vertical Header and Receptacle, 2 Circuit	WM8379-ND	2.00	76650-0082
Vertical Header and Receptacle, 4 Circuit	WM8384-ND	2.55	76650-0083
Vertical Header and Receptacle, 6 Circuit	WM8395-ND	3.29	76650-0084
Vertical Header and Receptacle, 8 Circuit	WM8399-ND	3.80	76650-0085
Vertical Header and Receptacle, 10 Circuit	WM8401-ND	4.74	76650-0086
Vertical Header and Receptacle, 12 Circuit	WM8402-ND	5.06	76650-0087
Vertical Header and Receptacle, 14 Circuit	WM8400-ND	6.32	76650-0088
Right Angle Header and Receptacle	WM8428-ND	46.14	76650-0016
Vertical Header and Receptacle	WM8484-ND	33.28	76650-0163
Panel Mount Plug and Receptacle	WM8418-ND	26.96	76650-0014
Vertical Header and Receptacle	WM8409-ND	41.33	76650-0015
Deluxe Vertical, Right Angle Header and Receptacle	WM8432-ND	66.34	76650-0013
Mini-Fit Sr.™ Power Connector Kits			
Gold Right Angle Header, Plug and Receptacle	WM8534-ND	38.66	76650-0220
Fully Polarized Single Row Plug and Receptacle	WM8416-ND	27.62	76650-0002
Mini-Fit BMI™ Connector Kit Blind Mate Vertical and Right Angle Header, Vertical Receptacle Header, Plug and Receptacle	WM8430-ND	48.18	76650-0158
Disk Drive Power Connector Kit PCB Vertical Header and Receptacle	WM8497-ND	20.91	76650-0176
Sabre™ Power Connector Kit Free Hanging Plug and Receptacle	WM8481-ND	30.78	76650-0160
Standard .062" Power Connector Kits			
Free Hanging Plug and Receptacle, 1 Circuit	WM8370-ND	3.90	76650-0062
Panel Mount Plug and Receptacle, 2 Circuit	WM8352-ND	3.92	76650-0063

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(Continued)

Description	Digi-Key Part No.	Price Each	Molex Part No.
Panel Mount Plug and Receptacle, 3 Circuit	WM8356-ND	4.96	76650-0064
Panel Mount Plug and Receptacle, 4 Circuit	WM8358-ND	4.51	76650-0065
Panel Mount Plug and Receptacle, 5 Circuit	WM8376-ND	5.09	76650-0066
Panel Mount Plug and Receptacle, 6 Circuit	WM8362-ND	5.52	76650-0067
Panel Mount Plug and Receptacle, 9 Circuit	WM8366-ND	3.73	76650-0068
Panel Mount Plug and Receptacle, 12 Circuit	WM8372-ND	4.25	76650-0069
Panel Mount Plug and Receptacle, 15 Circuit	WM8378-ND	5.26	76650-0070
Panel Mount Plug and Receptacle, 24 Circuit	WM8386-ND	9.86	76650-0071
Panel Mount Plug and Receptacle, 36 Circuit	WM8394-ND	13.37	76650-0073
Panel Mount Plug and Receptacle, with Extraction and Universal Crimp Tool, 5A, 250V	WM9800-ND	33.67	76650-0019
.084” MLX Power Connector Kit Panel Mount Plug and Receptacle	WM8429-ND	14.61	76650-0157
Standard .093” Power Connector Kits Free Hanging Plug and Receptacle, 1 Circuit	WM8368-ND	3.58	76650-0061
Single Row Panel Mount Plug and Receptacle, 2 Circuit	WM8353-ND	4.19	76650-0060
Single Row Panel Mount Plug and Receptacle, 4 Circuit	WM8354-ND	4.51	76650-0059
Single Row Panel Mount Plug and Receptacle, 3 Circuit	WM8355-ND	5.71	76650-0058
Single Row Panel Mount Plug and Receptacle, 5 Circuit	WM8374-ND	5.88	76650-0072
Panel Mount Plug and Receptacle, 6 Circuit	WM8357-ND	5.63	76650-0054
Panel Mount Plug and Receptacle, 9 Circuit	WM8361-ND	4.12	76650-0055
Panel Mount Plug and Receptacle, 12 Circuit	WM8365-ND	4.82	76650-0056
Panel Mount Plug and Receptacle, 15 Circuit	WM8371-ND	6.75	76650-0057
Panel Mount Plug and Receptacle, with Extraction Tool and Universal Crimp Tool	WM9801-ND	30.47	76650-0018
Deluxe Audio Data Application Kit Includes HDMI, HDMI to DVI-D, MicroCross DVI-D and DVI-I, DisplayPort, IEEE1394-1395, USB Type A and B, USB OTG (On-the-Go) mini-B, Micro USB-B Product Families. Pitches range: 0.05mm x 2.0mm (.002” x .079)”	WM8468-ND	46.09	76650-0143
Serial ATA Signal Connector Kit Signal Vertical and Right Angle Header and Receptacle	WM8490-ND	16.87	76650-0169
HandyLink™ Connector Kit Cradle Connector, SMT Right Angle Receptacle, Wire and PCB Termination Plug, IP-54 Rating	WM8507-ND	18.30	76650-0190
EuroStyle™ Barrier Strip Kits 8.0mm Pitch Two Screw Terminal Strip with Standoffs	WM1052-ND	10.85	76650-0020
10.0mm Pitch Two Screw Terminal Strip with Standoffs	WM8419-ND	12.40	76650-0021
12.0mm Pitch Two Screw Terminal Strip with Standoffs	WM8433-ND	28.39	76650-0022
EuroStyle™ Terminal Block Kits Pluggable PCB Vertical and Right Angle Header and Plug	WM8434-ND	37.76	76650-0023
High Power Fixed Mount PCB Single Row Vertical Terminal Block, 60A, 300V	WM8501-ND	40.64	76650-0180
EuroStyle™ Terminal Block Kits Pluggable PCB Vertical and Horizontal Header and Plug	WM1053-ND	89.35	76650-0024
Fixed Mount PCB Vertical Terminal Block	WM1054-ND	34.05	76650-0025
Multi Connector Terminal Block Solution	WM9037-ND✓	47.87	76650-0233
Solderless Terminal Kits Assorted Insulated and PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Terminals with Universal Crimping Tool	WM8403-ND	32.36	76650-0031
Assorted Insulated and Non-Insulated and PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Terminals with Universal Crimping Tool	WM8414-ND	28.80	76650-0030
Assorted PVC Insulated Quick Disconnect, Ring, Spade, Butt Splice and Multi-Lock Terminals. Nylon Fully Insulated Quick Disconnect and Nylon Closed-End Terminals with Crimp Tool	WM8406-ND	40.23	76650-0043
Assorted PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Solderless Terminals with Universal Crimping Tool	WM8422-ND	11.54	76650-0039
Assorted PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals with Universal Crimping Tool	WM8423-ND	12.07	76650-0040
Assorted Non-Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals with Universal Crimping Tool	WM8410-ND	45.83	76650-0038
Assorted Non-Insulated .250” Quick Disconnect Ring, Spade, Butt Splice and Terminal with Universal Crimp Tool	WM8413-ND	14.65	76650-0036
Assorted Non-Insulated .250” Quick Disconnect Ring, Spade, Butt Splice and Hook Terminal with Universal Crimp Tool	WM8420-ND	12.67	76650-0035
Assorted Non-Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals. Nylon Insulated Closed-End Solderless Terminals with Universal Crimping Tool	WM8417-ND	23.93	76650-0029
.110”, .187” and .250” Tab Size Non-Insulated and PVC Insulated Quick Disconnect Solderless Terminals with Universal Crimp Tool	WM8408-ND	21.78	76650-0028
.187” Tab Size PVC and Nylon Insulated Quick Disconnect Solderless Terminals	WM8425-ND	9.68	76650-0042
.187” Tab Size Nylon Insulated and Fully Insulated Quick Disconnect Solderless Terminals	WM8427-ND	10.08	76650-0046
.250” Tab Size Nylon Fully Insulated Quick Disconnect Solderless Terminals	WM8411-ND	13.28	76650-0044
.250” Tab Size Nylon Fully Insulated Quick Disconnect Solderless Terminals with Universal Crimp Tool	WM8426-ND	34.20	76650-0045
.250” Tab Size Non-Insulated Quick Disconnect Solderless Terminals	WM8421-ND	13.49	76650-0037
.250” Tab Size Non-Insulated Quick Disconnect Solderless Terminals	WM8415-ND	7.21	76650-0034
.250” Tab Size PVC Insulated Quick Disconnect Solderless Terminals	WM8424-ND	12.77	76650-0041
Nylon Insulated .250” Tab Size Quick Disconnect, Quick Disconnect Adaptor and Coupler	WM8476-ND	13.32	76650-0153
Nylon Insulated Butt Splice Solderless Terminals	WM8405-ND	19.85	76650-0047
Nylon and PVC Insulated Wire Pin	WM8412-ND	13.81	76650-0052
Nylon Insulated Ring 3 and 4 Way Ring Splice and #5-6, #8, #10 and 1/4” Stud Size Ring Terminal with Universal Crimp Tool	WM8477-ND	61.46	76650-0154

Description	Digi-Key Part No.	Price Each	Molex Part No.
PVC Insulated Bullet Snap Plug and Receptacle, and Non-Insulated Bullet Snap Plug and Receptacle	WM8437-ND	13.75	76650-0051
PVC and Nylon Insulated Bullet Snap Plug and Receptacle, Insulated Double Bullet Snap Coupler and Non-Insulated Bullet Snap Plug and Receptacle	WM8478-ND	17.79	76650-0155
Deluxe Insulated Ring, Spade, Butt Splice, Closed-End Solderless Terminal .187” and .250” Fully Insulated Female Quick Disconnect with Universal Crimp Tool	WM1049-ND	103.11	76650-0053
MX150L™ Connector Kits Dual Row Sealed Plug and Receptacle, IP-67	WM1044-ND	102.04	76650-0032
Dual Row Panel Mount Sealed Plug and Receptacle, IP-67	WM8475-ND	86.17	76650-0152
Single Row Receptacle to Distributor with CPA	WM8512-ND	35.13	76650-0197
Mini Mi II™ Connector Kits IDT Panel Mount Adaptor and Receptacle	WM8461-ND	47.07	76650-0136
IDT SMT Vertical Header and Receptacle	WM8462-ND	51.53	76650-0137
IDT Through Hole Vertical Header and Receptacle	WM8463-ND	36.00	76650-0138
IDT SMT Right Angle Header and Receptacle	WM8464-ND	38.19	76650-0139
Deluxe IDT Panel Mount Adaptor, Through Hole Vertical Header, SMT Vertical and Right Angle Header and Receptacle	WM8465-ND	42.65	76650-0140
CLIK-Mate™ Connector Kits SMT Dual Positive Lock Vertical and Right Angle Plug and Receptacle, 2.0mm (.079”) Pitch	WM8485-ND	40.79	76650-0164
SMT Dual Positive Lock Vertical and Right Angle Receptacle and Plug, 1.25mm (.050”) Pitch	WM8502-ND	32.38	76650-0185
Multi Connector Off the Board by Pitch Solution	WM9041-ND✓	56.22	76650-0237
SlimStack™ Connector Kit SMT Header Plug and Receptacle	WM8489-ND	97.03	76650-0168
EBBI 50D Connector Kit BMI PCB Vertical Plug and Receptacle 2.79mm Tail Length	WM8494-ND	98.86	76650-0173
MX150™ Connector Kit Single Row Matte Sealed Plug and Receptacle	WM8503-ND	33.24	76650-0186
MV-396™ Power Connector Kits Low Profile Pos Lock Interconnect Right Angle Header and Receptacle, 7A, 250V	WM8537-ND	9.91	76650-0223
Low Profile Pos Lock Interconnect Vertical Header and Receptacle, 7A, 250V	WM8538-ND	9.61	76650-0224
Deluxe Low Profile Pos Lock Interconnect Vertical and Right Angle Header and Receptacle, 7A, 250V	WM8466-ND	15.05	76650-0141
2.0 Thin Connector Kit Locking Plug and Receptacle	WM8506-ND	18.66	76650-0189
TDP® Connector Kit SMT Right Angle Plug and Receptacle and Backshell Assemblies	WM8508-ND	78.60	76650-0191
DisplayPort™ Connector and Cable Kit I/O Plug, Receptacle and Cable	WM8509-ND	33.39	76650-0194
Nano-Change® Connector and Cable Kits M8 Field-Attachable 3 Pole Male and Female Panel Mount Receptacle, Straight Connector and Receptacle and 5M Single Ended Cable	WM8535-ND	107.75	76650-0221
M8 Field-Attachable 3 Pole Male Panel Mount Receptacle, Straight and Right Angle Female Connector and Receptacle and 5M Single Ended Cable	WM8536-ND	92.24	76650-0222
Micro-Change® Connector and Cable Kit M12 Field-Attachable 4 Pole Male Panel Mount Receptacle, Straight Male and Female Connector and 5M Single-Ended Cable	WM8542-ND	123.00	76650-0228
Perma-Seal™ All Weather Solderless Terminal Kit Assorted Sealed Quick Disconnect, Ring and Butt Splice Terminals. Includes Heat Shrink Tubing and Cable Ties with Universal Crimp Tool	WM1048-ND	130.09	76650-0026
Perma-Fit™ Heat Shrink Tubing Kit Thin Wall and Dual Wall Polyolefin Shrink Tubing	WM8435-ND	12.37	76650-0027
Perma-Fit™ All Weather Solderless Terminal Kit Sealed Spade and Heat Shrink Tubing with Universal Crimp Tool	WM8436-ND	33.56	76650-0033
Multi-Lock Self-Tapping IDC Wire Splice Connector Kit Self-Tapping Wire Splice, Tap-Splice, Pigtail Splice, Parallel Splice and In-Line Splice Connectors	WM1050-ND	2.91	76650-0049
HCS-125 Power Connector Kit Single Row Plug and Receptacle with Universal Crimp Tool	WM8404-ND	24.40	76650-0001
Assorted Wire Nut Kit Assorted Wire Nuts, 22-14AWG, 22-10AWG and 22-8AWG	WM8407-ND	4.90	76650-0048
EXTreme ZPower™ Connector Kit Mezzanine PCB Connectors	WM8493-ND	13.00	76650-0172
Deluxe Splashproof Application Kit Includes USB Type A and B, RJ-45, MX150L™, MX150™, Mini-Splashproof Product Families. Pitches Range: 2.5mm x 5.84mm (.098” x .230”)	WM8474-ND	160.39	76650-0151
Sealed Splashproof Connector Kit Sealed Plug and Receptacle, JIS D0203 S2 Waterproof Compliant	WM8487-ND	39.77	76650-0166
Radio Frequency BNC Connector Kit PCB Mount BNC Vertical and Right Angle Receptacle	WM8492-ND	17.47	76650-0171
iPass™ Connector Kit SMT High Speed I/O	WM1043-ND	69.88	76650-0006
Self-Contained Power Connector Kit SCPC Tap Splice Connector and Safety Cap	WM8439-ND	47.76	76650-0111
SEARAY™ Connector Kit High Density Mezz Interconnect Plug and Receptacle	WM8446-ND	124.24	76650-0118
SEARAY™ Slim Connector Kit High Density Mezz Interconnect Plug and Receptacle	WM8447-ND	33.50	76650-0119
Easy-On™ FFC/FPC Connector Kit SMT Vertical Header, ZIF with Flip-Type Secure Actuator	WM8448-ND	29.80	76650-0120
MicroClasp™ Connector Kit Positive Lock Through Hole Right Angle Header and Receptacle	WM8460-ND	25.00	76650-0135
XRC™ Circular Sealed Connector Kit Circular Sealed Plug and Receptacle, IP-67	WM8469-ND	78.57	76650-0144
LFH™ Matrix 50 Connector Kit High Speed I/O Right Angle Plug, Receptacle and Hardware	WM8470-ND	32.32	76650-0145
SPOX™ BMI Connector Kit BMI Dual Row Panel Mount Vertical Plug and Receptacle	WM8482-ND	13.91	76650-0161
EXTreme PowerEdge™ Connector Kit End to End Stackable PCB, Through Hole and Press-Fit Connector, 40A, 250V	WM8483-ND	51.82	76650-0162

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Tyco Electronics
Authorized Distributor

AMP D-Subminiature Connectors

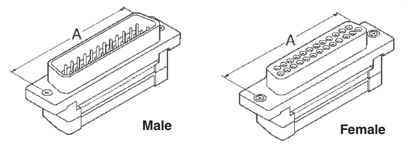

Material and Finish: • Plastic Shell: Housing, Cover and Cable Stabilizer – 94V-0 rated thermoplastic, black • Metal Shell: Front Shell – Steel, tin plated Housing, Cover & Cable Stabilizer – 94V-0 rated thermoplastic, black • Contacts: Phosphor bronze, duplex plated 30µ" gold on mating end, tin-lead on termination end, with entire contact nickel underplated • Threaded Inserts: Brass, unplated • Mounting Holes: Standard – .120" (3.05mm) Diameter

Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476

Certified by Canadian Standards Association., File No. LR 46568

No. of Contacts	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Male						
Plastic Shell						
9	Gold	.984 (24.99)	AMS09B-ND	5.93	28.45	1658615-4
15	Gold	1.312 (33.32)	AMS15B-ND	6.29	30.18	1658615-3
25	Gold	1.852 (47.04)	AMS25B-ND	9.00	43.19	1658615-2
37	Gold	2.500 (63.50)	AMS37B-ND	10.52	50.50	1658615-1
Plastic Shell With Threaded Inserts						
9	Gold	.984 (24.99)	AMV09B-ND	7.80	37.45	1658611-4
15	Gold	1.312 (33.32)	AMV15B-ND	14.41	69.16	1658611-3
25	Gold	1.852 (47.04)	AMV25B-ND	12.82	61.54	1658611-2
Metal Shell						
9	Gold	.984 (24.99)	AMR09B-ND	5.60	26.88	1658613-4
15	Gold	1.312 (33.32)	AMR15B-ND	6.25	29.98	1658613-3
25	Gold	1.852 (47.04)	AMR25B-ND	8.05	38.64	1658613-2
37	Gold	2.500 (63.50)	AMR37B-ND	12.31	59.11	1658613-1
Metal Shell With Threaded Inserts						
9	Gold	.984 (24.99)	AML09B-ND	8.22	39.45	1658608-4
15	Gold	1.312 (33.32)	AML15B-ND	8.30	39.84	1658608-3
25	Gold	1.852 (47.04)	AML25B-ND	9.29	44.57	1658608-2
37	Gold	2.500 (63.50)	AML37B-ND	8.19	39.33	1658608-1
50	Gold	2.406 (61.11)	AMR50B-ND	24.99	119.95	1658607-1
Female						
Plastic Shell						
9	Gold	.984 (24.99)	AFS09B-ND	6.72	31.87	1658614-4
15	Gold	1.312 (33.32)	AFS15B-ND	6.06	28.72	1658614-3
25	Gold	1.852 (47.04)	AFS25B-ND	6.72	31.87	1658614-2
37	Gold	2.500 (63.50)	AFS37B-ND	9.07	42.99	1658614-1
Plastic Shell With Threaded Inserts						
9	Gold	.984 (24.99)	AFV09B-ND	7.77	36.85	1658609-4
15	Gold	1.312 (33.32)	AFV15B-ND	11.73	55.61	1658609-3
25	Gold	1.852 (47.04)	AFV25B-ND	8.68	41.17	1658609-2
37	Gold	2.500 (63.50)	AFV37B-ND	14.18	67.23	1658609-1
Metal Shell						
9	Gold	.984 (24.99)	AFR09B-ND	5.32	25.23	1658612-4
15	Gold	1.312 (33.32)	AFR15B-ND	6.37	30.21	1658612-3
25	Gold	1.852 (47.04)	AFR25B-ND	7.88	37.35	1658612-2
37	Gold	2.500 (63.50)	AFR37B-ND	10.71	50.80	1658612-1
50	Gold	2.406 (61.11)	AFR50B-ND	22.05	104.58	1658606-1
Metal Shell With Threaded Inserts						
9	Gold	.984 (24.99)	AFL09B-ND	8.68	41.17	1658610-4
15	Gold	1.312 (33.32)	AFL15B-ND	9.10	43.16	1658610-3
25	Gold	1.852 (47.04)	AFL25B-ND	12.32	58.43	1658610-2
37	Gold	2.500 (63.50)	AFL37B-ND	11.38	53.95	1658610-1
Cable Strain Relief/Stabilizer						
9	—	—	ADSR09-ND	.50	2.44	747275-4
15	—	—	ADSR15-ND	.57	2.74	747275-3
25	—	—	ADSR25-ND	.72	3.50	747275-2
37	—	—	ADSR37-ND	.77	3.74	747275-1
50	—	—	ADSR50-ND	1.46	7.07	746785-1

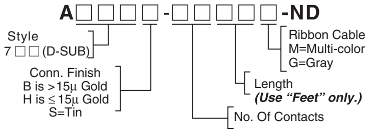

AMP D-Subminiature Cable Assemblies

Single Ended — Male

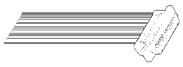

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MXB-0906M-ND	10.91	88.85
	Gold	6 (1.83)	GR	A7MXB-0906G-ND	10.67	86.88
	Gold	10 (3.05)	MC	A7MXB-0910M-ND	11.16	90.86
	Gold	10 (3.05)	GR	A7MXB-0910G-ND	10.75	87.57
15	Gold	6 (1.83)	MC	A7MXB-1506M-ND	11.85	96.46
	Gold	6 (1.83)	GR	A7MXB-1506G-ND	11.43	93.04
	Gold	10 (3.05)	MC	A7MXB-1510M-ND	12.27	99.89
	Gold	10 (3.05)	GR	A7MXB-1510G-ND	11.57	94.20
25	Gold	6 (1.83)	MC	A7MXB-2506M-ND	17.03	138.64
	Gold	6 (1.83)	GR	A7MXB-2506G-ND	16.35	133.16
	Gold	10 (3.05)	MC	A7MXB-2510M-ND	17.74	144.44
	Gold	10 (3.05)	GR	A7MXB-2510G-ND	16.62	135.31
37	Gold	6 (1.83)	MC	A7MXB-3706M-ND	20.32	165.47
	Gold	6 (1.83)	GR	A7MXB-3706G-ND	19.11	155.61
	Gold	10 (3.05)	MC	A7MXB-3710M-ND	21.48	174.91
	Gold	10 (3.05)	GR	A7MXB-3710G-ND	19.46	158.47

Also available in the following configuration:

A7PX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.
Note: Available with 9, 15 and 25 contacts.

Call for complete part number and pricing!

Single Ended — Female

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7FXB-0906M-ND	12.21	99.46
	Gold	6 (1.83)	GR	A7FXB-0906G-ND	11.97	97.48
	Gold	10 (3.05)	MC	A7FXB-0910M-ND	12.46	101.47
	Gold	10 (3.05)	GR	A7FXB-0910G-ND	12.06	98.18
15	Gold	6 (1.83)	MC	A7FXB-1506M-ND	11.45	93.23
	Gold	6 (1.83)	GR	A7FXB-1506G-ND	11.03	89.81
	Gold	10 (3.05)	MC	A7FXB-1510M-ND	11.87	96.66
	Gold	10 (3.05)	GR	A7FXB-1510G-ND	11.17	90.97
25	Gold	6 (1.83)	MC	A7FXB-2506M-ND	13.17	107.28
	Gold	6 (1.83)	GR	A7FXB-2506G-ND	12.50	101.80
	Gold	10 (3.05)	MC	A7FXB-2510M-ND	13.89	113.08
	Gold	10 (3.05)	GR	A7FXB-2510G-ND	12.77	103.95
37	Gold	6 (1.83)	MC	A7FXB-3706M-ND	17.86	145.47
	Gold	6 (1.83)	GR	A7FXB-3706G-ND	16.65	135.61
	Gold	10 (3.05)	MC	A7FXB-3710M-ND	19.02	154.91
	Gold	10 (3.05)	GR	A7FXB-3710G-ND	17.01	138.47

Also available in the following configuration:

A7SX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7WXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7OXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Male to Male

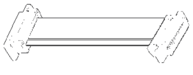

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MMB-0906M-ND	21.45	174.69
	Gold	6 (1.83)	GR	A7MMB-0906G-ND	21.21	172.71
	Gold	10 (3.05)	MC	A7MMB-0910M-ND	21.70	176.70
	Gold	10 (3.05)	GR	A7MMB-0910G-ND	21.30	173.41
15	Gold	6 (1.83)	MC	A7MMB-1506M-ND	23.06	187.76
	Gold	6 (1.83)	GR	A7MMB-1506G-ND	22.64	184.35
	Gold	10 (3.05)	MC	A7MMB-1510M-ND	23.48	191.20
	Gold	10 (3.05)	GR	A7MMB-1510G-ND	22.78	185.51
25	Gold	6 (1.83)	MC	A7MMB-2506M-ND	32.98	268.58
	Gold	6 (1.83)	GR	A7MMB-2506G-ND	32.31	263.10
	Gold	10 (3.05)	MC	A7MMB-2510M-ND	33.70	274.38
	Gold	10 (3.05)	GR	A7MMB-2510G-ND	32.57	265.25
37	Gold	6 (1.83)	MC	A7MMB-3706M-ND	38.90	316.78
	Gold	6 (1.83)	GR	A7MMB-3706G-ND	37.69	306.92
	Gold	10 (3.05)	MC	A7MMB-3710M-ND	40.06	326.22
	Gold	10 (3.05)	GR	A7MMB-3710G-ND	38.04	309.78

Also available in the following configuration:

A7PP□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VVB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NNB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Female to Female

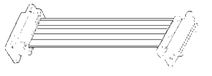

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7FFB-0906M-ND	24.06	195.90
	Gold	6 (1.83)	GR	A7FFB-0906G-ND	23.82	193.93
	Gold	10 (3.05)	MC	A7FFB-0910M-ND	24.30	197.91
	Gold	10 (3.05)	GR	A7FFB-0910G-ND	23.90	194.62
15	Gold	6 (1.83)	MC	A7FFB-1506M-ND	22.26	181.30
	Gold	6 (1.83)	GR	A7FFB-1506G-ND	21.85	177.88
	Gold	10 (3.05)	MC	A7FFB-1510M-ND	22.69	184.73
	Gold	10 (3.05)	GR	A7FFB-1510G-ND	21.99	179.04
25	Gold	6 (1.83)	MC	A7FFB-2506M-ND	25.28	205.86
	Gold	6 (1.83)	GR	A7FFB-2506G-ND	24.61	200.38
	Gold	10 (3.05)	MC	A7FFB-2510M-ND	25.99	211.66
	Gold	10 (3.05)	GR	A7FFB-2510G-ND	24.87	202.53
37	Gold	6 (1.83)	MC	A7FFB-3706M-ND	33.99	276.78
	Gold	6 (1.83)	GR	A7FFB-3706G-ND	32.78	266.92
	Gold	10 (3.05)	MC	A7FFB-3710M-ND	35.15	286.22
	Gold	10 (3.05)	GR	A7FFB-3710G-ND	33.13	269.78

Also available in the following configuration:

A7SS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7WWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7OOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Male to Female

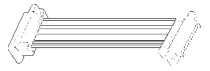

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Gold	6 (1.83)	MC	A7MFB-0906M-ND	22.76	185.29
	Gold	6 (1.83)	GR	A7MFB-0906G-ND	22.51	183.32
	Gold	10 (3.05)	MC	A7MFB-0910M-ND	23.00	187.30
	Gold	10 (3.05)	GR	A7MFB-0910G-ND	22.60	184.01
15	Gold	6 (1.83)	MC	A7MFB-1506M-ND	22.66	184.53
	Gold	6 (1.83)	GR	A7MFB-1506G-ND	22.24	181.12
	Gold	10 (3.05)	MC	A7MFB-1510M-ND	23.08	187.97
	Gold	10 (3.05)	GR	A7MFB-1510G-ND	22.38	182.27
25	Gold	6 (1.83)	MC	A7MFB-2506M-ND	29.13	237.22
	Gold	6 (1.83)	GR	A7MFB-2506G-ND	28.46	231.74
	Gold	10 (3.05)	MC	A7MFB-2510M-ND	29.84	243.02
	Gold	10 (3.05)	GR	A7MFB-2510G-ND	28.72	233.89
37	Gold	6 (1.83)	MC	A7MFB-3706M-ND	36.45	296.78
	Gold	6 (1.83)	GR	A7MFB-3706G-ND	35.24	286.92
	Gold	10 (3.05)	MC	A7MFB-3710M-ND	37.61	306.22
	Gold	10 (3.05)	GR	A7MFB-3710G-ND	35.59	289.78

Also available in the following configuration:

A7PS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Tyco Electronics
Authorized Distributor

RoHS COMPLIANT

AMP Ribbon Cable Dip Plugs

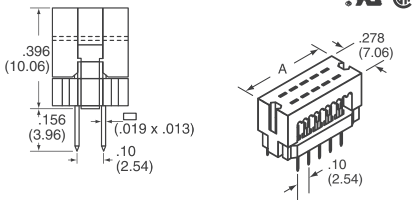

Material and Finish:
- Plastic Shell: Housing, Cover and Strain Relief — Black thermoplastic, UL 94V-0 rated
- Tin Finish: Contacts — Phosphor bronze
- Centerline — .100 x .100

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
10	Tin	.680 (17.27)	ADM10S-ND	2.00	9.48	2-746610-1
14	Tin	.880 (22.35)	ADM14S-ND	2.01	9.54	2-746610-2
16	Tin	.980 (24.89)	ADM16S-ND	2.17	10.27	1-746610-4
20	Tin	1.180 (29.97)	ADM20S-ND	2.36	11.18	1-746610-5
24	Tin	1.380 (35.05)	ADM24S-ND	2.38	11.29	2-746610-3
26	Tin	1.480 (37.59)	ADM26S-ND	2.44	11.57	1-746610-6
30	Tin	1.680 (42.67)	ADM30S-ND	2.50	11.85	1-746610-7
34	Tin	1.880 (47.75)	ADM34S-ND	2.62	12.42	1-746610-8
40	Tin	2.180 (55.37)	ADM40S-ND	2.74	12.98	1-746610-9
44	Tin	2.380 (60.45)	ADM44S-ND	2.96	14.05	2-746610-6
50	Tin	2.680 (68.07)	ADM50S-ND	2.98	14.11	2-746610-0
60	Tin	3.180 (80.77)	ADM60S-ND	3.09	14.67	2-746610-4
64	Tin	3.380 (85.85)	ADM64S-ND	3.22	15.27	2-746610-5

AMP Dip Plug Cable Assemblies

RoHS COMPLIANT

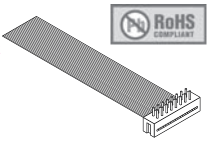

Single Ended — Style 2

* MC = Multi-Color
GR = Gray

No. of Cont.	Conn. Finish	Length Inch (mm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A2MXS-1006M-ND	2.90	23.59
	Tin	6 (15.24)	GR	A2MXS-1006G-ND	2.61	21.27
	Tin	18 (45.72)	MC	A2MXS-1018M-ND	3.75	30.55
	Tin	18 (45.72)	GR	A2MXS-1018G-ND	2.90	23.59
	Tin	36 (91.44)	MC	A2MXS-1036M-ND	5.03	40.99
	Tin	36 (91.44)	GR	A2MXS-1036G-ND	3.32	27.07
14	Tin	6 (15.24)	MC	A2MXS-1406M-ND	3.12	25.38
	Tin	6 (15.24)	GR	A2MXS-1406G-ND	2.68	21.86
	Tin	18 (45.72)	MC	A2MXS-1418M-ND	4.38	35.69
	Tin	18 (45.72)	GR	A2MXS-1418G-ND	3.08	25.11
	Tin	36 (91.44)	MC	A2MXS-1436M-ND	6.28	51.14
	Tin	36 (91.44)	GR	A2MXS-1436G-ND	3.68	29.99
16	Tin	6 (15.24)	MC	A2MXS-1606M-ND	3.36	27.33
	Tin	6 (15.24)	GR	A2MXS-1606G-ND	2.90	23.64
	Tin	18 (45.72)	MC	A2MXS-1618M-ND	4.72	38.43
	Tin	18 (45.72)	GR	A2MXS-1618G-ND	3.36	27.35
	Tin	36 (91.44)	MC	A2MXS-1636M-ND	6.76	55.07
	Tin	36 (91.44)	GR	A2MXS-1636G-ND	4.04	32.92
20	Tin	6 (15.24)	MC	A2MXS-2006M-ND	3.77	30.66
	Tin	6 (15.24)	GR	A2MXS-2006G-ND	3.23	26.33
	Tin	18 (45.72)	MC	A2MXS-2018M-ND	5.47	44.58
	Tin	18 (45.72)	GR	A2MXS-2018G-ND	3.88	31.59
	Tin	36 (91.44)	MC	A2MXS-2036M-ND	8.04	65.46
	Tin	36 (91.44)	GR	A2MXS-2036G-ND	4.85	39.48
24	Tin	6 (15.24)	MC	A2MXS-2406M-ND	3.97	32.29
	Tin	6 (15.24)	GR	A2MXS-2406G-ND	3.24	26.41
	Tin	18 (45.72)	MC	A2MXS-2418M-ND	6.02	48.98
	Tin	18 (45.72)	GR	A2MXS-2418G-ND	3.85	31.36
	Tin	36 (91.44)	MC	A2MXS-2436M-ND	9.09	74.03
	Tin	36 (91.44)	GR	A2MXS-2436G-ND	4.76	38.78
26	Tin	6 (15.24)	MC	A2MXS-2606M-ND	4.13	33.59
	Tin	6 (15.24)	GR	A2MXS-2606G-ND	3.41	27.78
	Tin	18 (45.72)	MC	A2MXS-2618M-ND	6.35	51.71
	Tin	18 (45.72)	GR	A2MXS-2618G-ND	4.21	34.27
	Tin	36 (91.44)	MC	A2MXS-2636M-ND	9.69	78.87
	Tin	36 (91.44)	GR	A2MXS-2636G-ND	5.40	44.00
34	Tin	6 (15.24)	MC	A2MXS-3406M-ND	4.69	38.16
	Tin	6 (15.24)	GR	A2MXS-3406G-ND	3.66	29.84
	Tin	18 (45.72)	MC	A2MXS-3418M-ND	7.59	61.83
	Tin	18 (45.72)	GR	A2MXS-3418G-ND	4.52	36.84
	Tin	36 (91.44)	MC	A2MXS-3436M-ND	11.95	97.32
	Tin	36 (91.44)	GR	A2MXS-3436G-ND	5.82	47.36
40	Tin	6 (15.24)	MC	A2MXS-4006M-ND	5.12	41.69
	Tin	6 (15.24)	GR	A2MXS-4006G-ND	3.98	32.43
	Tin	18 (45.72)	MC	A2MXS-4018M-ND	8.60	70.01
	Tin	18 (45.72)	GR	A2MXS-4018G-ND	5.19	42.23
	Tin	36 (91.44)	MC	A2MXS-4036M-ND	13.81	112.48
	Tin	36 (91.44)	GR	A2MXS-4036G-ND	6.99	56.93
50	Tin	6 (15.24)	MC	A2MXS-5006M-ND	5.82	47.40
	Tin	6 (15.24)	GR	A2MXS-5006G-ND	4.31	35.08
	Tin	18 (45.72)	MC	A2MXS-5018M-ND	10.11	82.34
	Tin	18 (45.72)	GR	A2MXS-5018G-ND	5.57	45.38
	Tin	36 (91.44)	MC	A2MXS-5036M-ND	16.55	134.76
	Tin	36 (91.44)	GR	A2MXS-5036G-ND	7.47	60.84
60	Tin	6 (15.24)	MC	A2MXS-6006M-ND	6.41	52.17
	Tin	6 (15.24)	GR	A2MXS-6006G-ND	4.68	38.10
	Tin	18 (45.72)	MC	A2MXS-6018M-ND	11.58	94.27
	Tin	18 (45.72)	GR	A2MXS-6018G-ND	6.39	52.05
	Tin	36 (91.44)	MC	A2MXS-6036M-ND	19.33	157.42
	Tin	36 (91.44)	GR	A2MXS-6036G-ND	8.96	72.98
64	Tin	6 (15.24)	MC	A2MXS-6406M-ND	6.69	54.48
	Tin	6 (15.24)	GR	A2MXS-6406G-ND	4.88	39.74
	Tin	18 (45.72)	MC	A2MXS-6418M-ND	12.16	99.02
	Tin	18 (45.72)	GR	A2MXS-6418G-ND	6.73	54.80
	Tin	36 (91.44)	MC	A2MXS-6436M-ND	20.36	165.83
	Tin	36 (91.44)	GR	A2MXS-6436G-ND	9.51	77.40

Double Ended — Style 6

* MC = Multi-Color
GR = Gray

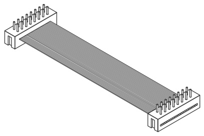

No. of Cont.	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A6MMS-1006M-ND	5.37	43.70
	Tin	6 (15.24)	GR	A6MMS-1006G-ND	5.08	41.38
	Tin	18 (45.72)	MC	A6MMS-1018M-ND	6.22	50.66
	Tin	18 (45.72)	GR	A6MMS-1018G-ND	5.37	43.70
	Tin	36 (91.44)	MC	A6MMS-1036M-ND	7.50	61.10
	Tin	36 (91.44)	GR	A6MMS-1036G-ND	5.79	47.18
14	Tin	6 (15.24)	MC	A6MMS-1406M-ND	5.60	45.61
	Tin	6 (15.24)	GR	A6MMS-1406G-ND	5.17	42.09
	Tin	18 (45.72)	MC	A6MMS-1418M-ND	6.87	55.92
	Tin	18 (45.72)	GR	A6MMS-1418G-ND	5.57	45.34
	Tin	36 (91.44)	MC	A6MMS-1436M-ND	8.76	71.37
	Tin	36 (91.44)	GR	A6MMS-1436G-ND	6.17	50.22
16	Tin	6 (15.24)	MC	A6MMS-1606M-ND	6.03	49.12
	Tin	6 (15.24)	GR	A6MMS-1606G-ND	5.58	45.43
	Tin	18 (45.72)	MC	A6MMS-1618M-ND	7.39	60.21
	Tin	18 (45.72)	GR	A6MMS-1618G-ND	6.03	49.14
	Tin	36 (91.44)	MC	A6MMS-1636M-ND	9.44	76.86
	Tin	36 (91.44)	GR	A6MMS-1636G-ND	6.72	54.70
20	Tin	6 (15.24)	MC	A6MMS-2006M-ND	6.68	54.36
	Tin	6 (15.24)	GR	A6MMS-2006G-ND	6.14	50.03
	Tin	18 (45.72)	MC	A6MMS-2018M-ND	8.39	68.28
	Tin	18 (45.72)	GR	A6MMS-2018G-ND	6.79	55.29
	Tin	36 (91.44)	MC	A6MMS-2036M-ND	10.95	89.16
	Tin	36 (91.44)	GR	A6MMS-2036G-ND	7.76	63.18
24	Tin	6 (15.24)	MC	A6MMS-2406M-ND	6.91	56.23
	Tin	6 (15.24)	GR	A6MMS-2406G-ND	6.18	50.35
	Tin	18 (45.72)	MC	A6MMS-2418M-ND	8.96	72.92
	Tin	18 (45.72)	GR	A6MMS-2418G-ND	6.79	55.30
	Tin	36 (91.44)	MC	A6MMS-2436M-ND	12.03	97.97
	Tin	36 (91.44)	GR	A6MMS-2436G-ND	7.70	62.72
26	Tin	6 (15.24)	MC	A6MMS-2606M-ND	7.14	58.13
	Tin	6 (15.24)	GR	A6MMS-2606G-ND	6.43	52.32
	Tin	18 (45.72)	MC	A6MMS-2618M-ND	9.36	76.24
	Tin	18 (45.72)	GR	A6MMS-2618G-ND	7.22	58.81
	Tin	36 (91.44)	MC	A6MMS-2636M-ND	12.70	103.41
	Tin	36 (91.44)	GR	A6MMS-2636G-ND	8.42	68.54
34	Tin	6 (15.24)	MC	A6MMS-3406M-ND	7.92	64.50
	Tin	6 (15.24)	GR	A6MMS-3406G-ND	6.90	56.17
	Tin	18 (45.72)	MC	A6MMS-3418M-ND	10.83	88.16
	Tin	18 (45.72)	GR	A6MMS-3418G-ND	7.76	63.18
	Tin	36 (91.44)	MC	A6MMS-3436M-ND	15.19	123.65
	Tin	36 (91.44)	GR	A6MMS-3436G-ND	9.05	73.69
40	Tin	6 (15.24)	MC	A6MMS-4006M-ND	8.50	69.22
	Tin	6 (15.24)	GR	A6MMS-4006G-ND	7.36	59.96
	Tin	18 (45.72)	MC	A6MMS-4018M-ND	11.98	97.54
	Tin	18 (45.72)	GR	A6MMS-4018G-ND	8.57	69.76
	Tin	36 (91.44)	MC	A6MMS-4036M-ND	17.19	140.01
	Tin	36 (91.44)	GR	A6MMS-4036G-ND	10.37	84.46
50	Tin	6 (15.24)	MC	A6MMS-5006M-ND	9.50	77.32
	Tin	6 (15.24)	GR	A6MMS-5006G-ND	7.98	65.00
	Tin	18 (45.72)	MC	A6MMS-5018M-ND	13.79	112.27
	Tin	18 (45.72)	GR	A6MMS-5018G-ND	9.25	75.31
	Tin	36 (91.44)	MC	A6MMS-5036M-ND	20.22	164.68
	Tin	36 (91.44)	GR	A6MMS-5036G-ND	11.15	90.77
60	Tin	6 (15.24)	MC	A6MMS-6006M-ND	10.23	83.29
	Tin	6 (15.24)	GR	A6MMS-6006G-ND	8.50	69.22
	Tin	18 (45.72)	MC	A6MMS-6018M-ND	15.40	125.39
	Tin	18 (45.72)	GR	A6MMS-6018G-ND	10.21	83.17
	Tin	36 (91.44)	MC	A6MMS-6036M-ND	23.15	188.54
	Tin	36 (91.44)	GR	A6MMS-6036G-ND	12.78	104.10
64	Tin	6 (15.24)	MC	A6MMS-6406M-ND	10.64	86.68
	Tin	6 (15.24)	GR	A6MMS-6406G-ND	8.84	71.94
	Tin	18 (45.72)	MC	A6MMS-6418M-ND	16.11	131.22
	Tin	18 (45.72)	GR	A6MMS-6418G-ND	10.69	87.01
	Tin	36 (91.44)	MC	A6MMS-6436M-ND	24.32	198.03
	Tin	36 (91.44)	GR	A6MMS-6436G-ND	13.46	109.61

Double Ended — Style 8

* MC = Multi-Color
GR = Gray

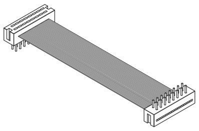

No. of Cont.	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A8MMS-1006M-ND	5.37	43.70
	Tin	6 (15.24)	GR	A8MMS-1006G-ND	5.08	41.38
	Tin	18 (45.72)	MC	A8MMS-1018M-ND	6.22	50.66
	Tin	18 (45.72)	GR	A8MMS-1018G-ND	5.37	43.70
	Tin	36 (91.44)	MC	A8MMS-1036M-ND	7.50	61.10
	Tin	36 (91.44)	GR	A8MMS-1036G-ND	5.79	47.18
14	Tin	6 (15.24)	MC	A8MMS-1406M-ND	5.60	45.61
	Tin	6 (15.24)	GR	A8MMS-1406G-ND	5.17	42.09
	Tin	18 (45.72)	MC	A8MMS-1418M-ND	6.87	55.92
	Tin	18 (45.72)	GR	A8MMS-1418G-ND	5.57	45.34
	Tin	36 (91.44)	MC	A8MMS-1436M-ND	8.76	71.37
	Tin	36 (91.44)	GR	A8MMS-1436G-ND	6.17	50.22
16	Tin	6 (15.24)	MC	A8MMS-1606M-ND	6.03	49.12
	Tin	6 (15.24)	GR	A8MMS-1606G-ND	5.58	45.43
	Tin	18 (45.72)	MC	A8MMS-1618M-ND	7.39	60.21
	Tin	18 (45.72)	GR	A8MMS-1618G-ND	6.03	49.14
	Tin	36 (91.44)	MC	A8MMS-1636M-ND	9.44	76.86
	Tin	36 (91.44)	GR	A8MMS-1636G-ND	6.72	54.70
20	Tin	6 (15.24)	MC	A8MMS-2006M-ND	6.68	54.36
	Tin	6 (15.24)	GR	A8MMS-2006G-ND	6.14	50.03
	Tin	18 (45.72)	MC	A8MMS-2018M-ND	8.39	68.28
	Tin	18 (45.72)	GR	A8MMS-2018G-ND	6.79	55.29
	Tin	36 (91.44)	MC	A8MMS-2036M-ND	10.95	89.16
	Tin	36 (91.44)	GR	A8MMS-2036G-ND	7.76	63.18
24	Tin	6 (15.24)	MC	A8MMS-2406M-ND	6.91	56.23
	Tin	6 (15.24)	GR	A8MMS-2406G-ND	6.18	50.35
	Tin	18 (45.72)	MC	A8MMS-2418M-ND	8.96	72.92
	Tin	18 (45.72)	GR	A8MMS-2418G-ND	6.79	55.30
	Tin	36 (91.44)	MC	A8MMS-2436M-ND	12.03	97.97
	Tin	36 (91.44)	GR	A8MMS-2436G-ND	7.70	62.72
26	Tin	6 (15.24)	MC	A8MMS-2606M-ND	7.14	58.13
	Tin	6 (15.24)	GR	A8MMS-2606G-ND	6.43	52.32
	Tin	18 (45.72)	MC	A8MMS-2618M-ND	9.36	76.24
	Tin	18 (45.72)	GR	A8MMS-2618G-ND	7.22	58.81
	Tin	36 (91.44)	MC	A8MMS-2636M-ND	12.70	103.41
	Tin	36 (91.44)	GR	A8MMS-2636G-ND	8.42	68.54
34	Tin	6 (15.24)	MC	A8MMS-3406M-ND	7.92	64.50
	Tin	6 (15.24)	GR	A8MMS-3406G-ND	6.90	56.17
	Tin	18 (45.72)	MC	A8MMS-3418M-ND	10.83	88.16
	Tin	18 (45.72)	GR	A8MMS-3418G-ND	7.76	63.18
	Tin	36 (91.44)	MC	A8MMS-3436M-ND	15.19	123.65
	Tin	36 (91.44)	GR	A8MMS-3436G-ND	9.05	73.69
40	Tin	6 (15.24)	MC	A8MMS-4006M-ND	8.50	69.22
	Tin	6 (15.24)	GR	A8MMS-4006G-ND	7.36	59.96
	Tin	18 (45.72)	MC	A8MMS-4018M-ND	11.98	97.54
	Tin	18 (45.72)	GR	A8MMS-4018G-ND	8.57	69.76
	Tin	36 (91.44)	MC	A8MMS-4036M-ND	17.19	140.01
	Tin	36 (91.44)	GR	A8MMS-4036G-ND	10.37	84.46
50	Tin	6 (15.24)	MC	A8MMS-5006M-ND	9.50	77.32
	Tin	6 (15.24)	GR	A8MMS-5006G-ND	7.98	65.00
	Tin	18 (45.72)	MC	A8MMS-5018M-ND	13.79	112.27
	Tin	18 (45.72)	GR	A8MMS-5018G-ND	9.25	75.31
	Tin	36 (91.44)	MC	A8MMS-5036M-ND	20.22	164.68
	Tin	36 (91.44)	GR	A8MMS-5036G-ND	11.15	90.77
60	Tin	6 (15.24)	MC	A8MMS-6006M-ND	10.23	83.29
	Tin	6 (15.24)	GR	A8MMS-6006G-ND	8.50	69.22
	Tin	18 (45.72)	MC	A8MMS-6018M-ND	15.40	125.39
	Tin	18 (45.72)	GR	A8MMS-6018G-ND	10.21	83.17
	Tin	36 (91.44)	MC	A8MMS-6036M-ND	23.15	188.54
	Tin	36 (91.44)	GR	A8MMS-6036G-ND	12.78	104.10
64	Tin	6 (15.24)	MC	A8MMS-6406M-ND	10.64	86.68
	Tin	6 (15.24)	GR	A8MMS-6406G-ND	8.84	71.94
	Tin	18 (45.72)	MC	A8MMS-6418M-ND	16.11	131.22
	Tin	18 (45.72)	GR	A8MMS-6418G-ND	10.69	87.01
	Tin	36 (91.44)	MC	A8MMS-6436M-ND	24.32	198.03
	Tin	36 (91.44)	GR	A8MMS-6436G-ND	13.46	109.61

Tyco Electronics
Authorized Distributor

AMP Socket Connectors

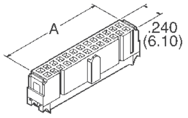

Socket Connector with Central Polarizing Key

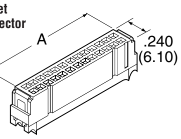

Socket Connector

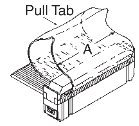

Permanent Pull-Tabs To Be Used With Strain Relief Version

Material and Finish: • Plastic Shell: Housing, Cover and Strain Relief — Black thermoplastic, 94V-0 rated • Gold Finish: Contacts — Phosphor bronze, duplex 15μ" gold or 30μ" gold on post/pin mating end, 100μ"-200μ" bright tin-lead on termination end, with entire contact underplated 50μ" nickel

No. of Con-tacts	Cont. Finish (AU)	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Socket Connector Only (Strain Reliefs Sold Separately)						
10	15μ"	.68 (17.27)	ASC10H-ND	1.05	5.06	1658620-1
14	15μ"	.88 (22.35)	ASC14H-ND	1.54	7.40	1658620-2
16	15μ"	.98 (24.89)	ASC16H-ND	1.62	7.79	1658620-3
20	15μ"	1.18 (29.97)	ASC20H-ND	1.70	8.18	1658620-4
24	15μ"	1.38 (35.05)	ASC24H-ND	2.11	10.12	1658620-5
26	15μ"	1.48 (37.59)	ASC26H-ND	2.11	10.12	1658620-6
30	15μ"	1.68 (42.67)	ASC30H-ND	2.71	12.99	1658620-7
34	15μ"	1.88 (47.75)	ASC34H-ND	2.35	11.29	1658620-8
40	15μ"	2.18 (55.37)	ASC40H-ND	2.60	12.46	1658620-9
50	15μ"	2.68 (68.07)	ASC50H-ND	3.16	15.01	1-1658620-0
64	15μ"	3.38 (85.85)	ASC64H-ND	3.38	21.16	1-1658620-2
10	30μ"	.68 (17.27)	ASC10B-ND	1.36	6.51	1658623-1
14	30μ"	.88 (22.35)	ASC14B-ND	1.78	8.55	1658623-2
16	30μ"	.98 (24.89)	ASC16B-ND	1.87	8.96	1658623-3
20	30μ"	1.18 (29.97)	ASC20B-ND	1.86	8.91	1658623-4
24	30μ"	1.38 (35.05)	ASC24B-ND	2.79	13.39	1658623-5
26	30μ"	1.48 (37.59)	ASC26B-ND	2.21	10.58	1658623-6
30	30μ"	1.68 (42.67)	ASC30B-ND	2.54	12.21	1658623-7
34	30μ"	1.88 (47.75)	ASC34B-ND	2.80	13.43	1658623-8
40	30μ"	2.18 (55.37)	ASC40B-ND	3.31	15.88	1658623-9
50	30μ"	2.68 (68.07)	ASC50B-ND	3.99	19.13	1-1658623-0
Socket Connector With Polarizing Key						
10	15μ"	.68 (17.27)	AKC10H-ND	1.21	5.75	1658621-1
14	15μ"	.88 (22.35)	AKC14H-ND	1.77	8.51	1658621-2
16	15μ"	.98 (24.89)	AKC16H-ND	1.87	8.96	1658621-3
20	15μ"	1.18 (29.97)	AKC20H-ND	1.70	8.18	1658621-4
24	15μ"	1.38 (35.05)	AKC24H-ND	2.11	10.12	1658621-5
26	15μ"	1.48 (37.59)	AKC26H-ND	2.11	10.12	1658621-6
30	15μ"	1.68 (42.67)	AKC30H-ND	2.35	11.29	1658621-7
34	15μ"	1.88 (47.75)	AKC34H-ND	2.35	11.29	1658621-8
40	15μ"	2.18 (55.37)	AKC40H-ND	2.60	12.46	1658621-9
44	15μ"	2.38 (60.45)	AKC44H-ND	2.68	12.69	1-1658621-3
50	15μ"	2.68 (68.07)	AKC50H-ND	3.16	15.19	1-1658621-0
60	15μ"	3.18 (80.77)	AKC60H-ND	4.06	19.47	1-1658621-1
64	15μ"	3.38 (85.85)	AKC64H-ND	4.46	21.42	1-1658621-2
10	30μ"	.68 (17.27)	AKC10B-ND	1.36	6.51	1658622-1
14	30μ"	.88 (22.35)	AKC14B-ND	1.78	8.55	1658622-2
16	30μ"	.98 (24.89)	AKC16B-ND	1.67	8.00	1658622-3
20	30μ"	1.18 (29.97)	AKC20B-ND	1.40	6.74	1658622-4
24	30μ"	1.38 (35.05)	AKC24B-ND	2.21	10.58	1658622-5
26	30μ"	1.48 (37.59)	AKC26B-ND	2.21	10.58	1658622-6
30	30μ"	1.68 (42.67)	AKC30B-ND	2.80	13.43	1658622-7
34	30μ"	1.88 (47.75)	AKC34B-ND	2.80	13.43	1658622-8
40	30μ"	2.18 (55.37)	AKC40B-ND	3.31	15.88	1658622-9
44	30μ"	2.38 (60.45)	AKC44B-ND	3.90	18.73	1-1658622-3
50	30μ"	2.68 (68.07)	AKC50B-ND	3.99	19.13	1-1658622-0
60	30μ"	3.18 (80.77)	AKC60B-ND	4.92	23.61	1-1658622-1
64	30μ"	3.38 (85.85)	AKC64B-ND	5.43	26.06	1-1658622-2
Strain Relief For Socket Connectors						
10	—	.68 (17.27)	ASSR10-ND	.29	1.19	499252-5
14	—	.88 (22.35)	ASSR14-ND	.29	1.19	499252-9
16	—	.98 (24.89)	ASSR16-ND	.29	1.19	499252-8
20	—	1.18 (29.97)	ASSR20-ND	.29	1.19	499252-2
24	—	1.38 (35.05)	ASSR24-ND	.26	1.66	1-499252-0
26	—	1.48 (37.59)	ASSR26-ND	.29	1.38	499252-3
30	—	1.68 (42.67)	ASSR30-ND	.29	1.38	1-499252-2
34	—	1.88 (47.75)	ASSR34-ND	.29	1.38	499252-6
40	—	2.18 (55.37)	ASSR40-ND	.29	1.61	499252-1
44	—	2.38 (60.45)	ASSR44-ND	.41	2.54	1-499252-1
50	—	2.68 (68.07)	ASSR50-ND	.29	1.84	499252-4
60	—	3.18 (80.77)	ASSR60-ND	.33	2.07	499252-7
64	—	3.38 (85.85)	ASSR64-ND	.40	2.53	1-499252-3
Permanent Pull Tabs (For Connectors With Strain Reliefs)						
10	—	.44 (11.18)	ASPS10-ND	.17	.79	5088450-2
14	—	.64 (16.26)	ASPS14-ND	.18	.85	5088450-3
16	—	.74 (18.80)	ASPS16-ND	.20	.95	5088450-4
20	—	.88 (22.35)	ASPS20-ND	.20	.96	5088450-5
26	—	1.18 (29.97)	ASPS26-ND	.23	1.09	5088450-7
34	—	1.58 (40.13)	ASPS34-ND	.26	1.27	5088450-8
40	—	1.82 (46.23)	ASPS40-ND	.29	1.40	5088450-9
50	—	2.32 (58.93)	ASPS50-ND	.34	1.63	1-5088450-0
60	—	2.80 (71.12)	ASPS60-ND	.39	1.85	1-5088450-1
Keying Plug For Socket Connectors						
Keying Plugs			ASKP01-ND	.12	1.04	499712-1
Keying Plugs 10/Comb			ASKP02-ND	1.02	9.21	104072-1

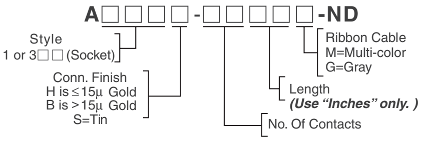

AMP Socket Connector Cable Assemblies

Socket Connector — Single Ended

* MC = Multi-Color
GR = Gray

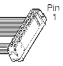

Socket connector without strain relief shown

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	36 (91.44)	MC	A1AXB-1036M-ND	3.92	31.93
	Gold	36 (91.44)	GR	A1AXB-1036G-ND	2.21	18.01
14	Gold	36 (91.44)	MC	A1AXB-1436M-ND	5.58	45.42
	Gold	36 (91.44)	GR	A1AXB-1436G-ND	2.98	24.26
16	Gold	36 (91.44)	MC	A1AXB-1636M-ND	5.95	48.48
	Gold	36 (91.44)	GR	A1AXB-1636G-ND	3.23	26.33
20	Gold	36 (91.44)	MC	A1AXB-2036M-ND	6.98	56.87
	Gold	36 (91.44)	GR	A1AXB-2036G-ND	3.79	30.89
24	Gold	36 (91.44)	MC	A1AXB-2436M-ND	9.60	78.15
	Gold	36 (91.44)	GR	A1AXB-2436G-ND	5.27	42.90
26	Gold	36 (91.44)	MC	A1AXB-2636M-ND	10.08	82.06
	Gold	36 (91.44)	GR	A1AXB-2636G-ND	5.80	47.19
30	Gold	36 (91.44)	MC	A1AXB-3036M-ND	12.65	102.98
	Gold	36 (91.44)	GR	A1AXB-3036G-ND	6.85	55.81
34	Gold	36 (91.44)	MC	A1AXB-3436M-ND	13.04	106.18
	Gold	36 (91.44)	GR	A1AXB-3436G-ND	6.90	56.21
40	Gold	36 (91.44)	MC	A1AXB-4036M-ND	15.54	126.54
	Gold	36 (91.44)	GR	A1AXB-4036G-ND	8.72	70.99
50	Gold	36 (91.44)	MC	A1AXB-5036M-ND	19.03	154.96
	Gold	36 (91.44)	GR	A1AXB-5036G-ND	9.95	81.04

Also available in the following versions:

A1AXH-□□□□□-ND — Socket connector without strain relief
Note: Also available with 64 contacts.
A1BXH-□□□□□-ND — Socket Connector with Strain Relief
Note: Also available with 60 and 64 contacts.
A1CXH-□□□□□-ND — Socket Connector with Central Polarizing Key
Note: Also available with 60 contacts.
A1DXH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key
Note: Also available with 44 and 60 contacts.
A1BXB-□□□□□-ND — Socket Connector with Strain Relief
A1CXB-□□□□□-ND — Socket Connector with Central Polarizing Key
Note: Also available with 44, 60 and 64 contacts.
A1DXB-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key
Note: Also available with 44, 60 and 64 contacts.

Call for complete part number and pricing!

Socket Connector to Socket Connector

* MC = Multi-Color,
GR = Gray

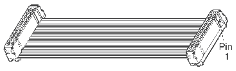

Socket connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3AAB-1006M-ND	3.14	25.58
	Gold	6 (15.24)	GR	A3AAB-1006G-ND	2.86	23.26
	Gold	18 (45.72)	MC	A3AAB-1018M-ND	4.00	32.54
	Gold	18 (45.72)	GR	A3AAB-1018G-ND	3.14	25.58
	Gold	36 (91.44)	MC	A3AAB-1036M-ND	5.28	42.98
	Gold	36 (91.44)	GR	A3AAB-1036G-ND	3.57	29.06
14	Gold	6 (15.24)	MC	A3AAB-1406M-ND	4.19	34.16
	Gold	6 (15.24)	GR	A3AAB-1406G-ND	3.76	30.63
	Gold	18 (45.72)	MC	A3AAB-1418M-ND	5.46	44.46
	Gold	18 (45.72)	GR	A3AAB-1418G-ND	4.16	33.89
	Gold	36 (91.44)	MC	A3AAB-1436M-ND	7.36	59.92
	Gold	36 (91.44)	GR	A3AAB-1436G-ND	4.76	38.77
16	Gold	6 (15.24)	MC	A3AAB-1606M-ND	4.41	35.94
	Gold	6 (15.24)	GR	A3AAB-1606G-ND	3.96	32.24
	Gold	18 (45.72)	MC	A3AAB-1618M-ND	5.78	47.03
	Gold	18 (45.72)	GR	A3AAB-1618G-ND	4.42	35.96
	Gold	36 (91.44)	MC	A3AAB-1636M-ND	7.82	63.68
	Gold	36 (91.44)	GR	A3AAB-1636G-ND	5.10	41.52
20	Gold	6 (15.24)	MC	A3AAB-2006M-ND	4.57	37.19
	Gold	6 (15.24)	GR	A3AAB-2006G-ND	4.04	32.86
	Gold	18 (45.72)	MC	A3AAB-2018M-ND	6.28	51.11
	Gold	18 (45.72)	GR	A3AAB-2018G-ND	4.68	38.12
	Gold	36 (91.44)	MC	A3AAB-2036M-ND	8.84	71.99
	Gold	36 (91.44)	GR	A3AAB-2036G-ND	5.65	46.01
24	Gold	6 (15.24)	MC	A3AAB-2406M-ND	7.92	64.47
	Gold	6 (15.24)	GR	A3AAB-2406G-ND	7.20	58.59
	Gold	18 (45.72)	MC	A3AAB-2418M-ND	9.97	81.16
	Gold	18 (45.72)	GR	A3AAB-2418G-ND	7.80	63.54
	Gold	36 (91.44)	MC	A3AAB-2436M-ND	13.04	106.21
	Gold	36 (91.44)	GR	A3AAB-2436G-ND	8.71	70.96
26	Gold	6 (15.24)	MC	A3AAB-2606M-ND	7.92	64.51
	Gold	6 (15.24)	GR	A3AAB-2606G-ND	7.21	58.70
	Gold	18 (45.72)	MC	A3AAB-2618M-ND	10.15	82.62
	Gold	18 (45.72)	GR	A3AAB-2618G-ND	8.01	65.18
	Gold	36 (91.44)	MC	A3AAB-2636M-ND	13.48	109.79
	Gold	36 (91.44)	GR	A3AAB-2636G-ND	9.20	74.92
30	Gold	6 (15.24)	MC	A3AAB-3006M-ND	9.31	75.82
	Gold	6 (15.24)	GR	A3AAB-3006G-ND	8.35	67.95
	Gold	18 (45.72)	MC	A3AAB-3018M-ND	12.22	99.48
	Gold	18 (45.72)	GR	A3AAB-3018G-ND	9.32	75.89
	Gold	36 (91.44)	MC	A3AAB-3036M-ND	16.58	134.97
	Gold	36 (91.44)	GR	A3AAB-3036G-ND	10.78	87.80
34	Gold	6 (15.24)	MC	A3AAB-3406M-ND	10.10	82.21
	Gold	6 (15.24)	GR	A3AAB-3406G-ND	9.07	73.89
	Gold	18 (45.72)	MC	A3AAB-3418M-ND	13.00	105.88
	Gold	18 (45.72)	GR	A3AAB-3418G-ND	9.93	80.89
	Gold	36 (91.44)	MC	A3AAB-3436M-ND	17.36	141.37
	Gold	36 (91.44)	GR	A3AAB-3436G-ND	11.23	91.41
40	Gold	6 (15.24)	MC	A3AAB-4006M-ND	11.95	97.34
	Gold	6 (15.24)	GR	A3AAB-4006G-ND	10.82	88.08
	Gold	18 (45.72)	MC	A3AAB-4018M-ND	15.43	125.66
	Gold	18 (45.72)	GR	A3AAB-4018G-ND	12.02	97.88
	Gold	36 (91.44)	MC	A3AAB-4036M-ND	20.65	168.13
	Gold	36 (91.44)	GR	A3AAB-4036G-ND	13.83	112.58
50	Gold	6 (15.24)	MC	A3AAB-5006M-ND	14.46	117.72
	Gold	6 (15.24)	GR	A3AAB-5006G-ND	12.94	105.40
	Gold	18 (45.72)	MC	A3AAB-5018M-ND	18.75	152.66
	Gold	18 (45.72)	GR	A3AAB-5018G-ND	14.21	115.70
	Gold	36 (91.44)	MC	A3AAB-5036M-ND	25.19	205.08
	Gold	36 (91.44)	GR	A3AAB-5036G-ND	16.11	131.16

Also available in the following versions:

A3AAH-□□□□□-ND — Socket connector without strain relief
Note: Also available with 64 contacts.
A3BBH-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 60 contacts.
A3CCH-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 44 and 60 contacts.
A3DDH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 44 and 60 contacts.
A3BBB-□□□□□-ND — Socket Connector with Strain Relief.
A3CCB-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 44, 60 and 64 contacts.
A3DDB-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 44, 60 and 64 contacts.

Call for complete part number and pricing!

(Continued)

AMP Socket Connector Cable Assemblies *(Cont.)*

Socket Connector to Pin Connector

* MC = Multi-Color
GR = Gray

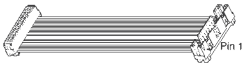

Socket connector without strain relief, plug connector without flange, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3AKB-1006M-ND	8.40	68.39
	Gold	6 (15.24)	GR	A3AKB-1006G-ND	8.11	66.08
	Gold	18 (45.72)	MC	A3AKB-1018M-ND	9.25	75.35
	Gold	18 (45.72)	GR	A3AKB-1018G-ND	8.40	68.40
	Gold	36 (91.44)	MC	A3AKB-1036M-ND	10.54	85.79
	Gold	36 (91.44)	GR	A3AKB-1036G-ND	8.83	71.88
14	Gold	6 (15.24)	MC	A3AKB-1406M-ND	10.01	81.50
	Gold	6 (15.24)	GR	A3AKB-1406G-ND	9.58	77.98
	Gold	18 (45.72)	MC	A3AKB-1418M-ND	11.27	91.80
	Gold	18 (45.72)	GR	A3AKB-1418G-ND	9.98	81.23
	Gold	36 (91.44)	MC	A3AKB-1436M-ND	13.17	107.26
	Gold	36 (91.44)	GR	A3AKB-1436G-ND	10.57	86.11
16	Gold	6 (15.24)	MC	A3AKB-1606M-ND	11.58	94.27
	Gold	6 (15.24)	GR	A3AKB-1606G-ND	11.12	90.58
	Gold	18 (45.72)	MC	A3AKB-1618M-ND	12.94	105.37
	Gold	18 (45.72)	GR	A3AKB-1618G-ND	11.58	94.29
	Gold	36 (91.44)	MC	A3AKB-1636M-ND	14.98	122.01
	Gold	36 (91.44)	GR	A3AKB-1636G-ND	12.26	99.86
20	Gold	6 (15.24)	MC	A3AKB-2006M-ND	12.27	99.88
	Gold	6 (15.24)	GR	A3AKB-2006G-ND	11.73	95.55
	Gold	18 (45.72)	MC	A3AKB-2018M-ND	13.98	113.80
	Gold	18 (45.72)	GR	A3AKB-2018G-ND	12.38	100.81
	Gold	36 (91.44)	MC	A3AKB-2036M-ND	16.54	134.68
	Gold	36 (91.44)	GR	A3AKB-2036G-ND	13.35	108.70
26	Gold	6 (15.24)	MC	A3AKB-2606M-ND	15.19	123.71
	Gold	6 (15.24)	GR	A3AKB-2606G-ND	14.48	117.90
	Gold	18 (45.72)	MC	A3AKB-2618M-ND	17.42	141.82
	Gold	18 (45.72)	GR	A3AKB-2618G-ND	15.28	124.38
	Gold	36 (91.44)	MC	A3AKB-2636M-ND	20.75	168.99
	Gold	36 (91.44)	GR	A3AKB-2636G-ND	16.47	134.11
30	Gold	6 (15.24)	MC	A3AKB-3006M-ND•	16.62	135.31
	Gold	6 (15.24)	GR	A3AKB-3006G-ND•	15.65	127.45
	Gold	18 (45.72)	MC	A3AKB-3018M-ND•	19.52	158.97
	Gold	18 (45.72)	GR	A3AKB-3018G-ND•	16.63	135.38
	Gold	36 (91.44)	MC	A3AKB-3036M-ND•	23.88	194.46
	Gold	36 (91.44)	GR	A3AKB-3036G-ND•	18.09	147.29
34	Gold	6 (15.24)	MC	A3AKB-3406M-ND•	17.67	143.92
	Gold	6 (15.24)	GR	A3AKB-3406G-ND•	16.65	135.60
	Gold	18 (45.72)	MC	A3AKB-3418M-ND•	20.58	167.58
	Gold	18 (45.72)	GR	A3AKB-3418G-ND•	17.51	142.60
	Gold	36 (91.44)	MC	A3AKB-3436M-ND•	24.94	203.08
	Gold	36 (91.44)	GR	A3AKB-3436G-ND•	18.80	153.11
40	Gold	6 (15.24)	MC	A3AKB-4006M-ND•	19.62	159.77
	Gold	6 (15.24)	GR	A3AKB-4006G-ND•	18.48	150.52
	Gold	18 (45.72)	MC	A3AKB-4018M-ND•	23.10	188.09
	Gold	18 (45.72)	GR	A3AKB-4018G-ND•	19.69	160.31
	Gold	36 (91.44)	MC	A3AKB-4036M-ND•	28.32	230.57
	Gold	36 (91.44)	GR	A3AKB-4036G-ND•	21.49	175.01
50	Gold	6 (15.24)	MC	A3AKB-5006M-ND	25.07	204.11
	Gold	6 (15.24)	GR	A3AKB-5006G-ND	23.55	191.79
	Gold	18 (45.72)	MC	A3AKB-5018M-ND	29.36	239.05
	Gold	18 (45.72)	GR	A3AKB-5018G-ND	24.82	202.10
	Gold	36 (91.44)	MC	A3AKB-5036M-ND	35.79	291.47
	Gold	36 (91.44)	GR	A3AKB-5036G-ND	26.72	217.55

Also available in the following versions:
A3BRB-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 24 contacts.
A3BKB-□□□□□-ND — Socket connector without strain relief, plug connector without flange, without strain relief
Note: Also available with 24 contacts.
A3CKB-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 64 contacts.
A3DKB-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 24 and 64 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

AMP Pin Connectors

Material and Finish: • Housing and Cover: Black thermoplastic, 94V-0 rated

Electrical Characteristics: • Contact Current Rating: 1 Amp • Dielectric Withstanding Voltage: Pin connectors 500 Volts, RMS

Contacts: • Phosphor Bronze, 30µ” AU pin end; .000100 tin on cable termination end; entire contact underplated with 50µ” nickel.
Specifications: • Operating Temperature: -65°C ~ 105°C

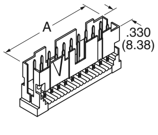

Recognized under Component Program of Underwriters Laboratories Inc. File No. E28476.

Certified by Canadian Standards Association File No. LR16455.

No. of Con-tacts	Con-tact Finish (AU)	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Pin Connectors (Strain Reliefs Sold Separately)						
16	30µ”	1.372 (34.85)	APK16A-ND	6.47	58.21	111446-3
26	30µ”	1.872 (47.55)	APK26A-ND	15.57	140.11	111446-6
Pin Connectors — RoHS Compliant (Strain Reliefs Sold Separately)						
10	30µ”	1.072 (27.23)	APK10B-ND	6.62	31.75	1-111446-4
14	30µ”	1.272 (32.31)	APK14B-ND	7.60	36.46	1-111446-5
16	30µ”	1.372 (34.85)	APK16B-ND	7.32	35.11	1-111446-6
20	30µ”	1.572 (39.93)	APK20B-ND	7.74	37.13	1-111446-8
24	30µ”	1.772 (45.01)	APK24B-ND	11.25	101.21	1-111446-9
26	30µ”	1.872 (47.55)	APK26B-ND	8.65	41.50	2-111446-0
30	30µ”	2.072 (52.63)	APK30B-ND	9.10	43.68	2-111446-1
34	30µ”	2.272 (57.71)	APK34B-ND	9.63	46.20	2-111446-2
40	30µ”	2.572 (65.33)	APK40B-ND	10.36	49.73	2-111446-3
50	30µ”	3.072 (78.03)	APK50B-ND	13.58	65.18	1-111446-7
64	30µ”	3.772 (95.81)	APK64B-ND	13.62	65.35	2-111446-6
Strain Reliefs For Pin Connectors — RoHS Compliant						
10	—	—	APSR10-ND	4.13	37.15	111547-1
14	—	—	APSR14-ND	3.74	33.64	111547-2
16	—	—	APSR16-ND	4.91	44.17	111547-3
20	—	—	APSR20-ND	4.91	44.17	111547-4
24	—	—	APSR24-ND	4.91	44.17	111547-5
26	—	—	APSR26-ND	4.97	44.75	111547-6
30	—	—	APSR30-ND	5.04	45.34	111547-7
34	—	—	APSR34-ND	5.07	45.63	111547-8
40	—	—	APSR40-ND	5.53	49.73	111547-9
50	—	—	APSR50-ND	5.75	51.77	1-111547-1

Description	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Snap-In Polarizer — RoHS Compliant				
For Pin Connectors, Univ. Pin, Pinless Headers and Low Profile Pin Headers	A24195-ND	.73	6.53	499991-2
Latch Ejector (2 Required per Connector) RoHS Compliant				
Short (for Connectors without Strain Relief)	ALSN02-ND	1.45/2	6.68/10	111451-1
Long (for Connectors with Strain Relief)	ALLN02-ND	1.67/2	7.71/10	111451-3

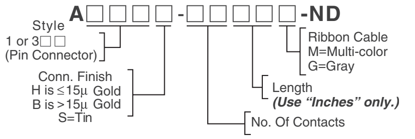

AMP Pin Connector Cable Assemblies

Pin Connector — Single Ended

* MC = Multi-Color
GR = Gray

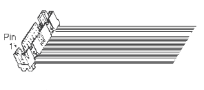

Pin connector without flange, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	36 (91.44)	MC	A1KXB-1036M-ND	9.18	74.74
	Gold	36 (91.44)	GR	A1KXB-1036G-ND	7.47	60.83
14	Gold	36 (91.44)	MC	A1KXB-1436M-ND	11.39	92.76
	Gold	36 (91.44)	GR	A1KXB-1436G-ND	8.79	71.61
16	Gold	36 (91.44)	MC	A1KXB-1636M-ND	13.12	106.82
	Gold	36 (91.44)	GR	A1KXB-1636G-ND	10.40	84.66
20	Gold	36 (91.44)	MC	A1KXB-2036M-ND	14.68	119.56
	Gold	36 (91.44)	GR	A1KXB-2036G-ND	11.49	93.58
26	Gold	36 (91.44)	MC	A1KXB-2636M-ND	17.35	141.26
	Gold	36 (91.44)	GR	A1KXB-2636G-ND	13.07	106.39
30	Gold	36 (91.44)	MC	A1KXB-3036M-ND•	19.95	162.47
	Gold	36 (91.44)	GR	A1KXB-3036G-ND•	14.16	115.30
34	Gold	36 (91.44)	MC	A1KXB-3436M-ND•	20.62	167.89
	Gold	36 (91.44)	GR	A1KXB-3436G-ND•	14.48	117.92
40	Gold	36 (91.44)	MC	A1KXB-4036M-ND•	23.21	188.97
	Gold	36 (91.44)	GR	A1KXB-4036G-ND•	16.39	133.42
50	Gold	36 (91.44)	MC	A1KXB-5036M-ND	29.64	241.35
	Gold	36 (91.44)	GR	A1KXB-5036G-ND	20.56	167.43
64	Gold	36 (91.44)	MC	A1KXB-6436M-ND•	33.21	270.42
	Gold	36 (91.44)	GR	A1KXB-6436G-ND•	22.35	182.00

Also available in the following version:
A1RXB-□□□□□-ND — Pin Connector with Strain Relief and Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

Pin Connector to Pin Connector

* MC = Multi-Color
GR = Gray

Pin connector, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3KKB-1006M-ND	13.66	111.21
	Gold	6 (15.24)	GR	A3KKB-1006G-ND	13.37	108.89
	Gold	18 (45.72)	MC	A3KKB-1018M-ND	14.51	118.17
	Gold	18 (45.72)	GR	A3KKB-1018G-ND	13.66	111.21
	Gold	36 (91.44)	MC	A3KKB-1036M-ND	15.79	128.61
	Gold	36 (91.44)	GR	A3KKB-1036G-ND	14.09	114.69
14	Gold	6 (15.24)	MC	A3KKB-1406M-ND	15.82	128.84
	Gold	6 (15.24)	GR	A3KKB-1406G-ND	15.39	125.32
	Gold	18 (45.72)	MC	A3KKB-1418M-ND	17.09	139.15
	Gold	18 (45.72)	GR	A3KKB-1418G-ND	15.79	128.57
	Gold	36 (91.44)	MC	A3KKB-1436M-ND	18.99	154.60
	Gold	36 (91.44)	GR	A3KKB-1436G-ND	16.39	133.45
16	Gold	6 (15.24)	MC	A3KKB-1606M-ND	18.74	152.61
	Gold	6 (15.24)	GR	A3KKB-1606G-ND	18.29	148.92
	Gold	18 (45.72)	MC	A3KKB-1618M-ND	20.10	163.70
	Gold	18 (45.72)	GR	A3KKB-1618G-ND	18.74	152.63
	Gold	36 (91.44)	MC	A3KKB-1636M-ND	22.15	180.35
	Gold	36 (91.44)	GR	A3KKB-1636G-ND	19.43	158.19
20	Gold	6 (15.24)	MC	A3KKB-2006M-ND	19.96	162.57
	Gold	6 (15.24)	GR	A3KKB-2006G-ND	19.43	158.24
	Gold	18 (45.72)	MC	A3KKB-2018M-ND	21.67	176.49
	Gold	18 (45.72)	GR	A3KKB-2018G-ND	20.08	163.50
	Gold	36 (91.44)	MC	A3KKB-2036M-ND	24.24	197.37
	Gold	36 (91.44)	GR	A3KKB-2036G-ND	21.05	171.39
26	Gold	6 (15.24)	MC	A3KKB-2606M-ND	22.46	182.91
	Gold	6 (15.24)	GR	A3KKB-2606G-ND	21.75	177.09
	Gold	18 (45.72)	MC	A3KKB-2618M-ND	24.69	201.02
	Gold	18 (45.72)	GR	A3KKB-2618G-ND	22.55	183.58
	Gold	36 (91.44)	MC	A3KKB-2636M-ND	28.02	228.18
	Gold	36 (91.44)	GR	A3KKB-2636G-ND	23.74	193.31
30	Gold	6 (15.24)	MC	A3KKB-3006M-ND•	23.92	194.80
	Gold	6 (15.24)	GR	A3KKB-3006G-ND•	22.96	186.94
	Gold	18 (45.72)	MC	A3KKB-3018M-ND•	26.83	218.46
	Gold	18 (45.72)	GR	A3KKB-3018G-ND•	23.93	194.88
	Gold	36 (91.44)	MC	A3KKB-3036M-ND•	31.19	253.96
	Gold	36 (91.44)	GR	A3KKB-3036G-ND•	25.39	206.78
34	Gold	6 (15.24)	MC	A3KKB-3406M-ND•	25.25	205.63
	Gold	6 (15.24)	GR	A3KKB-3406G-ND•	24.23	197.30
	Gold	18 (45.72)	MC	A3KKB-3418M-ND•	28.16	229.29
	Gold	18 (45.72)	GR	A3KKB-3418G-ND•	25.09	204.31
	Gold	36 (91.44)	MC	A3KKB-3436M-ND•	32.52	264.79
	Gold	36 (91.44)	GR	A3KKB-3436G-ND•	26.38	214.82
40	Gold	6 (15.24)	MC	A3KKB-4006M-ND•	27.29	222.21
	Gold	6 (15.24)	GR	A3KKB-4006G-ND•	26.15	212.95
	Gold	18 (45.72)	MC	A3KKB-4018M-ND•	30.77	250.52
	Gold	18 (45.72)	GR	A3KKB-4018G-ND•	27.36	222.75
	Gold	36 (91.44)	MC	A3KKB-4036M-ND•	35.98	293.00
	Gold	36 (91.44)	GR	A3KKB-4036G-ND•	29.16	237.45
50	Gold	6 (15.24)	MC	A3KKB-5006M-ND	35.68	290.50
	Gold	6 (15.24)	GR	A3KKB-5006G-ND	34.16	278.18
	Gold	18 (45.72)	MC	A3KKB-5018M-ND	39.97	325.45
	Gold	18 (45.72)	GR	A3KKB-5018G-ND	35.43	288.49
	Gold	36 (91.44)	MC	A3KKB-5036M-ND	46.40	377.86
	Gold	36 (91.44)	GR	A3KKB-5036G-ND	37.33	303.95
64	Gold	6 (15.24)	MC	A3KKB-6406M-ND•	36.33	295.87
	Gold	6 (15.24)	GR	A3KKB-6406G-ND•	34.53	281.13
	Gold	18 (45.72)	MC	A3KKB-6418M-ND•	41.80	340.41
	Gold	18 (45.72)	GR	A3KKB-6418G-ND•	36.38	296.20
	Gold	36 (91.44)	MC	A3KKB-6436M-ND•	50.01	407.22
	Gold	36 (91.44)	GR	A3KKB-6436G-ND•	39.15	318.80

Also available in the following version:
A3RRB-□□□□□-ND — Pin Connector with Strain Relief & Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

D-Subminiature Connectors

All Plastic Shell Male	All Plastic Shell Female	Metal Face Male	Metal Face Female
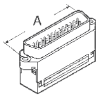	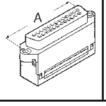	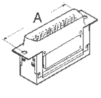	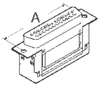

Specifications: • Contacts: phosphor bronze • Contact Plating: 10μ inch gold (in mating area) over 50μ inch nickel or 100μ inch tin-lead • Insulator material: UL 94V-0 flame-retardant thermoplastic • Cover pull-off force 226.79 grams/contact minimum (force applied along contacts primary axis) • Withdrawal force 56.70g – 226.79g/contact, typical • Color: blue • Operating Temperature: –55°C ~ 125°C • Current 1A (maximum) per contact • Dielectric Withstand Voltage: 500VDC (sea level) • Insulation resistance: 5 x 10^9Ω

No. of Cont.	Cont. Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	25
Male D-Subminiature Connectors, Plastic Shell						
9	Gold	.984(24.99)	CMP09G-ND◆	3.90	32.28	75.66
	Tin	.984(24.99)	CMP09S-ND◆	3.59	29.69	69.58
15	Gold	1.312(33.32)	CMP15G-ND◆	4.70	38.93	91.24
	Tin	1.312(33.32)	CMP15S-ND◆	4.44	36.72	86.06
	Tin-Lead	1.312(33.32)	CMP15T-ND	3.34	30.52	72.66
25	Gold	1.852(47.04)	CMP25G-ND◆	6.34	52.44	122.91
	Tin	1.852(47.04)	CMP25S-ND◆	6.00	49.63	116.33
37	Gold	2.500(63.50)	CMP37G-ND◆	8.40	71.06	169.58
	Tin	2.500(63.50)	CMP37S-ND◆	7.92	67.03	159.97
Female D-Subminiature Connectors, Plastic Shell						
9	Gold	.984(24.99)	CFP09G-ND◆	4.11	33.98	79.65
	Tin	.984(24.99)	CFP09S-ND◆	3.85	31.90	74.76
15	Gold	1.312(33.32)	CFP15G-ND◆	5.38	44.52	104.34
	Tin	1.312(33.32)	CFP15S-ND◆	5.08	42.02	98.49
	Tin-Lead	1.312(33.32)	CFP15T-ND	3.83	34.93	83.16
25	Gold	1.852(47.04)	CFP25G-ND◆	6.54	55.33	132.04
	Tin	1.852(47.04)	CFP25S-ND◆	6.88	56.95	133.48
37	Gold	2.500(63.50)	CFP37G-ND◆	8.57	78.23	186.25
	Tin	2.500(63.50)	CFP37S-ND◆	8.08	73.79	175.70
Male D-Subminiature Connectors, Metal Face — RoHS Compliant						
9	Gold	.984(24.99)	CMM09G-ND	4.56	37.70	88.37
	Tin	.984(24.99)	CMM09S-ND	4.25	35.14	82.35
15	Gold	1.312(33.32)	CMM15G-ND	6.65	55.03	128.98
	Tin	1.312(33.32)	CMM15S-ND	6.13	50.74	118.91
25	Gold	1.852(47.04)	CMM25G-ND	6.98	57.74	135.34
	Tin	1.852(47.04)	CMM25S-ND	6.60	54.62	128.03
37	Gold	2.500(63.50)	CMM37G-ND	8.19	74.76	178.00
	Tin	2.500(63.50)	CMM37S-ND	8.78	74.29	177.29
Female D-Subminiature Connectors, Metal Face — RoHS Compliant						
9	Gold	.984(24.99)	CFM09G-ND	4.54	37.61	88.14
	Tin	.984(24.99)	CFM09S-ND	4.40	36.43	85.39
15	Gold	1.312(33.32)	CFM15G-ND	5.90	48.84	114.47
	Tin	1.312(33.32)	CFM15S-ND	5.57	46.06	107.94
25	Gold	1.852(47.04)	CFM25G-ND	7.18	60.76	145.01
	Tin	1.852(47.04)	CFM25S-ND	6.79	57.49	137.18
37	Gold	2.500(63.50)	CFM37G-ND	9.42	86.02	204.80
	Tin	2.500(63.50)	CFM37S-ND	8.90	81.27	193.50

◆ *RoHS Compliant*

D-Subminiature Cable Assemblies

Single Ended — Male

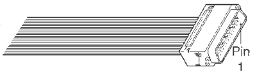

* MC = Multi-Color
GR = Gray

No. of Cont.	Contact Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MXG-0906M-ND	4.50	34.09
	Tin	6 (1.83)	MC	C7MXS-0906M-ND	4.16	31.56
	Gold	6 (1.83)	GR	C7MXG-0906G-ND	4.28	32.47
	Tin	6 (1.83)	GR	C7MXS-0906G-ND	3.95	29.93
	Gold	10 (3.05)	MC	C7MXG-0910M-ND	4.72	35.75
	Tin	10 (3.05)	MC	C7MXS-0910M-ND	4.38	33.21
	Gold	10 (3.05)	GR	C7MXG-0910G-ND	4.36	33.04
	Tin	10 (3.05)	GR	C7MXS-0910G-ND	4.02	30.50
15	Gold	6 (1.83)	MC	C7MXG-1506M-ND	5.59	42.37
	Tin	6 (1.83)	MC	C7MXS-1506M-ND	5.30	40.20
	Gold	6 (1.83)	GR	C7MXG-1506G-ND	5.22	39.55
	Tin	6 (1.83)	GR	C7MXS-1506G-ND	4.93	37.39
	Gold	10 (3.05)	MC	C7MXG-1510M-ND	5.96	45.20
	Tin	10 (3.05)	MC	C7MXS-1510M-ND	5.68	43.04
	Gold	10 (3.05)	GR	C7MXG-1510G-ND	5.34	40.50
	Tin	10 (3.05)	GR	C7MXS-1510G-ND	5.06	38.34
25	Gold	6 (1.83)	MC	C7MXG-2506M-ND	7.72	58.52
	Tin	6 (1.83)	MC	C7MXS-2506M-ND	7.36	55.77
	Gold	6 (1.83)	GR	C7MXG-2506G-ND	7.12	54.01
	Tin	6 (1.83)	GR	C7MXS-2506G-ND	6.76	51.26
	Gold	10 (3.05)	MC	C7MXG-2510M-ND	8.35	63.31
	Tin	10 (3.05)	MC	C7MXS-2510M-ND	7.99	60.56
	Gold	10 (3.05)	GR	C7MXG-2510G-ND	7.36	55.78
	Tin	10 (3.05)	GR	C7MXS-2510G-ND	7.00	53.03
37	Gold	6 (1.83)	MC	C7MXG-3706M-ND	11.55	87.58
	Tin	6 (1.83)	MC	C7MXS-3706M-ND	10.99	83.28
	Gold	6 (1.83)	GR	C7MXG-3706G-ND	10.48	79.45
	Tin	6 (1.83)	GR	C7MXS-3706G-ND	9.91	75.15
	Gold	10 (3.05)	MC	C7MXG-3710M-ND	12.58	95.36
	Tin	10 (3.05)	MC	C7MXS-3710M-ND	12.01	91.06
	Gold	10 (3.05)	GR	C7MXG-3710G-ND	10.79	81.81
	Tin	10 (3.05)	GR	C7MXS-3710G-ND	10.22	77.51

Also available in the following configuration:
C7PX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Single Ended — Female

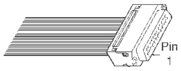

* MC = Multi-Color,
GR = Gray

No. of Cont.	Contact Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FXG-0906M-ND	4.72	35.76
	Tin	6 (1.83)	MC	C7FXS-0906M-ND	4.45	33.72
	Gold	6 (1.83)	GR	C7FXG-0906G-ND	4.50	34.13
	Tin	6 (1.83)	GR	C7FXS-0906G-ND	4.23	32.09
	Gold	10 (3.05)	MC	C7FXG-0910M-ND	4.94	37.42
	Tin	10 (3.05)	MC	C7FXS-0910M-ND	4.67	35.38
	Gold	10 (3.05)	GR	C7FXG-0910G-ND	4.58	34.71
	Tin	10 (3.05)	GR	C7FXS-0910G-ND	4.31	32.66
15	Gold	6 (1.83)	MC	C7FXG-1506M-ND	6.31	47.84
	Tin	6 (1.83)	MC	C7FXS-1506M-ND	5.99	45.40
	Gold	6 (1.83)	GR	C7FXG-1506G-ND	5.94	45.02
	Tin	6 (1.83)	GR	C7FXS-1506G-ND	5.62	42.58
	Gold	10 (3.05)	MC	C7FXG-1510M-ND	6.68	50.67
	Tin	10 (3.05)	MC	C7FXS-1510M-ND	6.36	48.23
	Gold	10 (3.05)	GR	C7FXG-1510G-ND	6.07	45.98
	Tin	10 (3.05)	GR	C7FXS-1510G-ND	5.74	43.53
25	Gold	6 (1.83)	MC	C7FXG-2506M-ND	8.74	66.28
	Tin	6 (1.83)	MC	C7FXS-2506M-ND	8.30	62.94
	Gold	6 (1.83)	GR	C7FXG-2506G-ND	8.15	61.76
	Tin	6 (1.83)	GR	C7FXS-2506G-ND	7.71	58.42
	Gold	10 (3.05)	MC	C7FXG-2510M-ND	9.37	71.06
	Tin	10 (3.05)	MC	C7FXS-2510M-ND	8.93	67.72
	Gold	10 (3.05)	GR	C7FXG-2510G-ND	8.38	63.53
	Tin	10 (3.05)	GR	C7FXS-2510G-ND	7.94	60.20
37	Gold	6 (1.83)	MC	C7FXG-3706M-ND	13.09	99.21
	Tin	6 (1.83)	MC	C7FXS-3706M-ND	12.43	94.25
	Gold	6 (1.83)	GR	C7FXG-3706G-ND	12.01	91.08
	Tin	6 (1.83)	GR	C7FXS-3706G-ND	11.36	86.12
	Gold	10 (3.05)	MC	C7FXG-3710M-ND	14.11	106.99
	Tin	10 (3.05)	MC	C7FXS-3710M-ND	13.46	102.04
	Gold	10 (3.05)	GR	C7FXG-3710G-ND	12.33	93.44
	Tin	10 (3.05)	GR	C7FXS-3710G-ND	11.67	88.48

Also available in the following configuration:
C7SX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Male

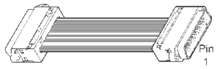

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MMG-0906M-ND	8.67	65.70
	Tin	6 (1.83)	MC	C7MMS-0906M-ND	8.00	60.63
	Gold	6 (1.83)	GR	C7MMG-0906G-ND	8.45	64.07
	Tin	6 (1.83)	GR	C7MMS-0906G-ND	7.78	59.00
	Gold	10 (3.05)	MC	C7MMG-0910M-ND	8.89	67.36
	Tin	10 (3.05)	MC	C7MMS-0910M-ND	8.22	62.28
	Gold	10 (3.05)	GR	C7MMG-0910G-ND	8.53	64.65
	Tin	10 (3.05)	GR	C7MMS-0910G-ND	7.86	59.57
15	Gold	6 (1.83)	MC	C7MMG-1506M-ND	10.62	80.48
	Tin	6 (1.83)	MC	C7MMS-1506M-ND	10.05	76.16
	Gold	6 (1.83)	GR	C7MMG-1506G-ND	10.25	77.67
	Tin	6 (1.83)	GR	C7MMS-1506G-ND	9.67	73.34
	Gold	10 (3.05)	MC	C7MMG-1510M-ND	10.99	83.31
	Tin	10 (3.05)	MC	C7MMS-1510M-ND	10.42	78.99
	Gold	10 (3.05)	GR	C7MMG-1510G-ND	10.37	78.62
	Tin	10 (3.05)	GR	C7MMS-1510G-ND	9.80	74.30
25	Gold	6 (1.83)	MC	C7MMG-2506M-ND	14.49	109.87
	Tin	6 (1.83)	MC	C7MMS-2506M-ND	13.77	104.37
	Gold	6 (1.83)	GR	C7MMG-2506G-ND	13.90	105.35
	Tin	6 (1.83)	GR	C7MMS-2506G-ND	13.17	99.85
	Gold	10 (3.05)	MC	C7MMG-2510M-ND	15.12	114.65
	Tin	10 (3.05)	MC	C7MMS-2510M-ND	14.40	109.15
	Gold	10 (3.05)	GR	C7MMG-2510G-ND	14.13	107.13
	Tin	10 (3.05)	GR	C7MMS-2510G-ND	13.41	101.63
37	Gold	6 (1.83)	MC	C7MMG-3706M-ND	21.57	163.48
	Tin	6 (1.83)	MC	C7MMS-3706M-ND	20.43	154.88
	Gold	6 (1.83)	GR	C7MMG-3706G-ND	20.49	155.35
	Tin	6 (1.83)	GR	C7MMS-3706G-ND	19.36	146.75
	Gold	10 (3.05)	MC	C7MMG-3710M-ND	22.59	171.27
	Tin	10 (3.05)	MC	C7MMS-3710M-ND	21.46	162.67
	Gold	10 (3.05)	GR	C7MMG-3710G-ND	20.80	157.71
	Tin	10 (3.05)	GR	C7MMS-3710G-ND	19.67	149.11

Also available in the following configuration:
C7PP□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Female to Female

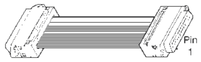

* MC = Multi-Color,
GR = Gray

No. of Cont.	Contact Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FFG-0906M-ND	9.11	69.04
	Tin	6 (1.83)	MC	C7FFS-0906M-ND	8.57	64.95
	Gold	6 (1.83)	GR	C7FFG-0906G-ND	8.89	67.41
	Tin	6 (1.83)	GR	C7FFS-0906G-ND	8.35	63.32
	Gold	10 (3.05)	MC	C7FFG-0910M-ND	9.33	70.70
	Tin	10 (3.05)	MC	C7FFS-0910M-ND	8.79	66.61
	Gold	10 (3.05)	GR	C7FFG-0910G-ND	8.97	67.98
	Tin	10 (3.05)	GR	C7FFS-0910G-ND	8.43	63.89
15	Gold	6 (1.83)	MC	C7FFG-1506M-ND	12.06	91.43
	Tin	6 (1.83)	MC	C7FFS-1506M-ND	11.42	86.55
	Gold	6 (1.83)	GR	C7FFG-1506G-ND	11.69	88.62
	Tin	6 (1.83)	GR	C7FFS-1506G-ND	11.05	83.73
	Gold	10 (3.05)	MC	C7FFG-1510M-ND	12.44	94.27
	Tin	10 (3.05)	MC	C7FFS-1510M-ND	11.79	89.38
	Gold	10 (3.05)	GR	C7FFG-1510G-ND	11.82	89.57
	Tin	10 (3.05)	GR	C7FFS-1510G-ND	11.17	84.68
25	Gold	6 (1.83)	MC	C7FFG-2506M-ND	16.54	125.38
	Tin	6 (1.83)	MC	C7FFS-2506M-ND	15.66	118.71
	Gold	6 (1.83)	GR	C7FFG-2506G-ND	15.94	120.86
	Tin	6 (1.83)	GR	C7FFS-2506G-ND	15.06	114.19
	Gold	10 (3.05)	MC	C7FFG-2510M-ND	17.17	130.16
	Tin	10 (3.05)	MC	C7FFS-2510M-ND	16.29	123.49
	Gold	10 (3.05)	GR	C7FFG-2510G-ND	16.18	122.64
	Tin	10 (3.05)	GR	C7FFS-2510G-ND	15.30	115.96
37	Gold	6 (1.83)	MC	C7FFG-3706M-ND	24.64	186.75
	Tin	6 (1.83)	MC	C7FFS-3706M-ND	23.33	176.83
	Gold	6 (1.83)	GR	C7FFG-3706G-ND	23.56	178.62
	Tin	6 (1.83)	GR	C7FFS-3706G-ND	22.25	168.70
	Gold	10 (3.05)	MC	C7FFG-3710M-ND	25.66	194.53
	Tin	10 (3.05)	MC	C7FFS-3710M-ND	24.35	184.62
	Gold	10 (3.05)	GR	C7FFG-3710G-ND	23.87	180.98
	Tin	10 (3.05)	GR	C7FFS-3710G-ND	22.57	171.06

Also available in the following configuration:
C7SS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Female

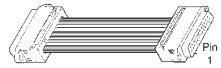

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MFG-0906M-ND	8.89	67.37
	Tin	6 (1.83)	MC	C7MFS-0906M-ND	8.28	62.79
	Gold	6 (1.83)	GR	C7MFG-0906G-ND	8.67	65.74
	Tin	6 (1.83)	GR	C7MFS-0906G-ND	8.07	61.16
	Gold	10 (3.05)	MC	C7MFG-0910M-ND	9.11	69.03
	Tin	10 (3.05)	MC	C7MFS-0910M-ND	8.50	64.45
	Gold	10 (3.05)	GR	C7MFG-0910G-ND	8.75	66.31
	Tin	10 (3.05)	GR	C7MFS-0910G-ND	10.22	77.48
15	Gold	6 (1.83)	MC	C7MFG-1506M-ND	11.34	85.96
	Tin	6 (1.83)	MC	C7MFS-1506M-ND	10.73	81.35
	Gold	6 (1.83)	GR	C7MFG-1506G-ND	10.97	83.14
	Tin	6 (1.83)	GR	C7MFS-1506G-ND	10.36	78.54
	Gold	10 (3.05)	MC	C7MFG-1510M-ND	11.71	88.79
	Tin	10 (3.05)	MC	C7MFS-1510M-ND	11.11	84.18
	Gold	10 (3.05)	GR	C7MFG-1510G-ND	11.09	84.10
	Tin	10 (3.05)	GR	C7MFS-1510G-ND	10.49	79.49
25	Gold	6 (1.83)	MC	C7MFG-2506M-ND	15.52	117.62
	Tin	6 (1.83)	MC	C7MFS-2506M-ND	14.71	111.54
	Gold	6 (1.83)	GR	C7MFG-2506G-ND	14.92	113.11
	Tin	6 (1.83)	GR	C7MFS-2506G-ND	14.12	107.02
	Gold	10 (3.05)	MC	C7MFG-2510M-ND	16.15	122.41
	Tin	10 (3.05)	MC	C7MFS-2510M-ND	15.34	116.32
	Gold	10 (3.05)	GR	C7MFG-2510G-ND	15.15	114.88
	Tin	10 (3.05)	GR	C7MFS-2510G-ND	14.35	108.79
37	Gold	6 (1.83)	MC	C7MFG-3706M-ND	23.10	175.12
	Tin	6 (1.83)	MC	C7MFS-3706M-ND	21.88	165.86
	Gold	6 (1.83)	GR	C7MFG-3706G-ND	22.03	166.99
	Tin	6 (1.83)	GR	C7MFS-3706G-ND	20.81	157.73
	Gold	10 (3.05)	MC	C7MFG-3710M-ND	24.13	182.90
	Tin	10 (3.05)	MC	C7MFS-3710M-ND	22.91	173.64
	Gold	10 (3.05)	GR	C7MFG-3710G-ND	22.34	169.35
	Tin	10 (3.05)	GR	C7MFS-3710G-ND	21.12	160.09

Also available in the following configuration:
C7PS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

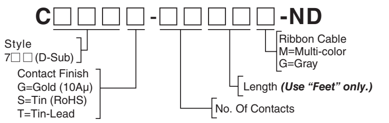

Digi-Key® Custom Cable Assemblies Available
Call Digi-Key

CW INDUSTRIES

DIP Connectors

RoHS COMPLIANT

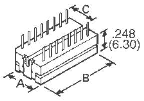

No. of Pins	Dimensions - Inch (mm)		
	A	B	C
14	.42(10.67)	.754(19.15)	.300(7.62)
16	.42(10.67)	.854(21.69)	.300(7.62)
24	.72(18.29)	1.264(32.21)	.600(15.24)
40	.72(18.29)	2.067(52.50)	.600(15.24)

Specifications: • **Contacts:** phosphor bronze • **Insulator Material:** UL 94V-0 retardant glass-filled thermoplastic • **Strain Relief Strap Material:** Tin-plated steel • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • Mates with standard Dip socket with .100" x .300" or .100" x .600" (2.54mm x 7.62mm or 2.54mm x 15.24mm) contact spacing

No. of Cont.	Contact Finish	Digi-Key Part No.	Pricing 1	10	25	50
DIP Connectors — .175"(4.44mm) Pin Length						
14	Gold	CDP14G-ND	1.92	15.96	36.94	66.49
	Tin	CDP14S-ND	1.83	14.19	33.07	60.13
16	Gold	CDP16G-ND	2.05	17.06	39.50	71.10
	Tin	CDP16S-ND	1.65	13.72	31.75	57.15
24	Gold	CDP24G-ND	3.03	25.06	58.73	104.40
	Tin	CDP24S-ND	2.72	22.63	52.38	94.28
40	Gold	CDP40G-ND	4.74	39.24	91.97	163.50
	Tin	CDP40S-ND	3.51	29.04	68.06	121.00
Strain Relief Straps For DIP Connectors						
14	—	CDSR14-ND	.54	3.35	6.26	11.17
16	—	CDSR16-ND	.88	5.48	10.24	18.27
24	—	CDSR24-ND	.64	3.96	7.39	13.20
40	—	CDSR40-ND	.74	4.57	8.53	15.23

DIP Cable Assemblies

RoHS COMPLIANT

Single Ended Style 2

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

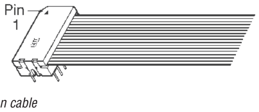

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
14	Gold	6(15.24)	MC	C2PXG-1406M-ND	2.39	18.14
	Tin	6(15.24)	MC	C2PXS-1406M-ND	2.05	15.55
	Gold	6(15.24)	GR	C2PXG-1406G-ND	2.01	15.23
	Tin	6(15.24)	GR	C2PXS-1406G-ND	1.67	12.65
	Gold	18(45.72)	MC	C2PXG-1418M-ND	3.51	26.63
	Tin	18(45.72)	MC	C2PXS-1418M-ND	3.17	24.05
	Gold	18(45.72)	GR	C2PXG-1418G-ND	2.36	17.91
	Tin	18(45.72)	GR	C2PXS-1418G-ND	2.02	15.33
	Gold	36(91.44)	MC	C2PXG-1436M-ND	5.19	39.38
	Tin	36(91.44)	MC	C2PXS-1436M-ND	4.85	36.79
	Gold	36(91.44)	GR	C2PXG-1436G-ND	2.89	21.94
	Tin	36(91.44)	GR	C2PXS-1436G-ND	2.55	19.35
16	Gold	6(15.24)	MC	C2PXG-1606M-ND	2.56	19.43
	Tin	6(15.24)	MC	C2PXS-1606M-ND	2.18	16.51
	Gold	6(15.24)	GR	C2PXG-1606G-ND	2.16	16.38
	Tin	6(15.24)	GR	C2PXS-1606G-ND	1.78	13.47
	Gold	18(45.72)	MC	C2PXG-1618M-ND	3.77	28.58
	Tin	18(45.72)	MC	C2PXS-1618M-ND	3.39	25.66
	Gold	18(45.72)	GR	C2PXG-1618G-ND	2.56	19.44
	Tin	18(45.72)	GR	C2PXS-1618G-ND	2.18	16.53
	Gold	36(91.44)	MC	C2PXG-1636M-ND	5.58	42.30
	Tin	36(91.44)	MC	C2PXS-1636M-ND	5.20	39.39
	Gold	36(91.44)	GR	C2PXG-1636G-ND	3.17	24.03
	Tin	36(91.44)	GR	C2PXS-1636G-ND	2.79	21.12
24	Gold	6(15.24)	MC	C2PXG-2406M-ND	4.14	31.42
	Tin	6(15.24)	MC	C2PXS-2406M-ND	3.51	26.58
	Gold	6(15.24)	GR	C2PXG-2406G-ND	3.51	26.57
	Tin	6(15.24)	GR	C2PXS-2406G-ND	2.87	21.73
	Gold	18(45.72)	MC	C2PXG-2418M-ND	5.96	45.18
	Tin	18(45.72)	MC	C2PXS-2418M-ND	5.32	40.34
	Gold	18(45.72)	GR	C2PXG-2418G-ND	4.04	30.65
	Tin	18(45.72)	GR	C2PXS-2418G-ND	3.41	25.81
	Gold	36(91.44)	MC	C2PXG-2436M-ND	8.68	65.83
	Tin	36(91.44)	MC	C2PXS-2436M-ND	8.05	60.99
	Gold	36(91.44)	GR	C2PXG-2436G-ND	4.85	36.77
	Tin	36(91.44)	GR	C2PXS-2436G-ND	4.21	31.93
40	Gold	6(15.24)	MC	C2PXG-4006M-ND	6.61	50.10
	Tin	6(15.24)	MC	C2PXS-4006M-ND	5.29	40.11
	Gold	6(15.24)	GR	C2PXG-4006G-ND	5.60	42.46
	Tin	6(15.24)	GR	C2PXS-4006G-ND	4.28	32.47
	Gold	18(45.72)	MC	C2PXG-4018M-ND	9.69	73.45
	Tin	18(45.72)	MC	C2PXS-4018M-ND	8.37	63.46
	Gold	18(45.72)	GR	C2PXG-4018G-ND	6.67	50.54
	Tin	18(45.72)	GR	C2PXS-4018G-ND	5.35	40.55
	Gold	36(91.44)	MC	C2PXG-4036M-ND	14.31	108.47
	Tin	36(91.44)	MC	C2PXS-4036M-ND	12.99	98.48
	Gold	36(91.44)	GR	C2PXG-4036G-ND	8.27	62.66
	Tin	36(91.44)	GR	C2PXS-4036G-ND	6.95	52.67

Also available in the following version:
C2RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Single Ended Style 4

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

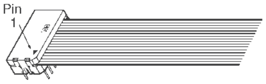

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
14	Gold	6(15.24)	MC	C4PXG-1406M-ND	2.39	18.14
	Tin	6(15.24)	MC	C4PXS-1406M-ND	2.05	15.55
	Gold	6(15.24)	GR	C4PXG-1406G-ND	2.01	15.23
	Tin	6(15.24)	GR	C4PXS-1406G-ND	1.67	12.65
	Gold	18(45.72)	MC	C4PXG-1418M-ND	3.51	26.63
	Tin	18(45.72)	MC	C4PXS-1418M-ND	3.17	24.05
	Gold	18(45.72)	GR	C4PXG-1418G-ND	2.36	17.91
	Tin	18(45.72)	GR	C4PXS-1418G-ND	2.02	15.33
	Gold	36(91.44)	MC	C4PXG-1436M-ND	5.19	39.38
	Tin	36(91.44)	MC	C4PXS-1436M-ND	4.85	36.79
	Gold	36(91.44)	GR	C4PXG-1436G-ND	2.89	21.94
	Tin	36(91.44)	GR	C4PXS-1436G-ND	2.55	19.35
16	Gold	6(15.24)	MC	C4PXG-1606M-ND	2.56	19.43
	Tin	6(15.24)	MC	C4PXS-1606M-ND	2.18	16.51
	Gold	6(15.24)	GR	C4PXG-1606G-ND	2.16	16.38
	Tin	6(15.24)	GR	C4PXS-1606G-ND	1.78	13.47
	Gold	18(45.72)	MC	C4PXG-1618M-ND	3.77	28.58
	Tin	18(45.72)	MC	C4PXS-1618M-ND	3.39	25.66
	Gold	18(45.72)	GR	C4PXG-1618G-ND	2.56	19.44
	Tin	18(45.72)	GR	C4PXS-1618G-ND	2.18	16.53
	Gold	36(91.44)	MC	C4PXG-1636M-ND	5.58	42.30
	Tin	36(91.44)	MC	C4PXS-1636M-ND	5.20	39.39
	Gold	36(91.44)	GR	C4PXG-1636G-ND	3.17	24.03
	Tin	36(91.44)	GR	C4PXS-1636G-ND	2.79	21.12
24	Gold	6(15.24)	MC	C4PXG-2406M-ND	4.14	31.42
	Tin	6(15.24)	MC	C4PXS-2406M-ND	3.51	26.58
	Gold	6(15.24)	GR	C4PXG-2406G-ND	3.51	26.57
	Tin	6(15.24)	GR	C4PXS-2406G-ND	2.87	21.73
	Gold	18(45.72)	MC	C4PXG-2418M-ND	5.96	45.18
	Tin	18(45.72)	MC	C4PXS-2418M-ND	5.32	40.34
	Gold	18(45.72)	GR	C4PXG-2418G-ND	4.04	30.65
	Tin	18(45.72)	GR	C4PXS-2418G-ND	3.41	25.81
	Gold	36(91.44)	MC	C4PXG-2436M-ND	8.68	65.83
	Tin	36(91.44)	MC	C4PXS-2436M-ND	8.05	60.99
	Gold	36(91.44)	GR	C4PXG-2436G-ND	4.85	36.77
	Tin	36(91.44)	GR	C4PXS-2436G-ND	4.21	31.93
40	Gold	6(15.24)	MC	C4PXG-4006M-ND	6.61	50.10
	Tin	6(15.24)	MC	C4PXS-4006M-ND	5.29	40.11
	Gold	6(15.24)	GR	C4PXG-4006G-ND	5.60	42.46
	Tin	6(15.24)	GR	C4PXS-4006G-ND	4.28	32.47
	Gold	18(45.72)	MC	C4PXG-4018M-ND	9.69	73.45
	Tin	18(45.72)	MC	C4PXS-4018M-ND	8.37	63.46
	Gold	18(45.72)	GR	C4PXG-4018G-ND	6.67	50.54
	Tin	18(45.72)	GR	C4PXS-4018G-ND	5.35	40.55
	Gold	36(91.44)	MC	C4PXG-4036M-ND	14.31	108.47
	Tin	36(91.44)	MC	C4PXS-4036M-ND	12.99	98.48
	Gold	36(91.44)	GR	C4PXG-4036G-ND	8.27	62.66
	Tin	36(91.44)	GR	C4PXS-4036G-ND	6.95	52.67

Also available in the following version:
C4RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended Style 6

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

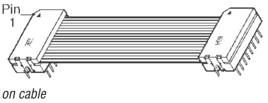

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
14	Gold	6(15.24)	MC	C6PPG-1406M-ND	4.22	32.03
	Tin	6(15.24)	MC	C6PPS-1406M-ND	3.54	26.86
	Gold	6(15.24)	GR	C6PPG-1406G-ND	3.84	29.12
	Tin	6(15.24)	GR	C6PPS-1406G-ND	3.16	23.95
	Gold	18(45.72)	MC	C6PPG-1418M-ND	5.35	40.52
	Tin	18(45.72)	MC	C6PPS-1418M-ND	4.66	35.35
	Gold	18(45.72)	GR	C6PPG-1418G-ND	4.20	31.80
	Tin	18(45.72)	GR	C6PPS-1418G-ND	3.51	26.63
	Gold	36(91.44)	MC	C6PPG-1436M-ND	7.03	53.27
	Tin	36(91.44)	MC	C6PPS-1436M-ND	6.34	48.10
	Gold	36(91.44)	GR	C6PPG-1436G-ND	4.73	35.83
	Tin	36(91.44)	GR	C6PPS-1436G-ND	4.04	30.66
16	Gold	6(15.24)	MC	C6PPG-1606M-ND	4.52	34.28
	Tin	6(15.24)	MC	C6PPS-1606M-ND	3.75	28.45
	Gold	6(15.24)	GR	C6PPG-1606G-ND	4.12	31.23
	Tin	6(15.24)	GR	C6PPS-1606G-ND	3.35	25.41
	Gold	18(45.72)	MC	C6PPG-1618M-ND	5.73	43.43
	Tin	18(45.72)	MC	C6PPS-1618M-ND	4.96	37.60
	Gold	18(45.72)	GR	C6PPG-1618G-ND	4.52	34.29
	Tin	18(45.72)	GR	C6PPS-1618G-ND	3.76	28.47
	Gold	36(91.44)	MC	C6PPG-1636M-ND	7.54	57.15
	Tin	36(91.44)	MC	C6PPS-1636M-ND	6.77	51.32
	Gold	36(91.44)	GR	C6PPG-1636G-ND	5.13	38.88
	Tin	36(91.44)	GR	C6PPS-1636G-ND	4.36	33.06
24	Gold	6(15.24)	MC	C6PPG-2406M-ND	7.38	55.95
	Tin	6(15.24)	MC	C6PPS-2406M-ND	6.10	46.27
	Gold	6(15.24)	GR	C6PPG-2406G-ND	6.74	51.11
	Tin	6(15.24)	GR	C6PPS-2406G-ND	5.46	41.43
	Gold	18(45.72)	MC	C6PPG-2418M-ND	9.20	69.72
	Tin	18(45.72)	MC	C6PPS-2418M-ND	7.92	60.04
	Gold	18(45.72)	GR	C6PPG-2418G-ND	7.28	55.19
	Tin	18(45.72)	GR	C6PPS-2418G-ND	6.00	45.51
	Gold	36(91.44)	MC	C6PPG-2436M-ND	11.92	90.37
	Tin	36(91.44)	MC	C6PPS-2436M-ND	10.64	80.68
	Gold	36(91.44)	GR	C6PPG-2436G-ND	8.09	61.31
	Tin	36(91.44)	GR	C6PPS-2436G-ND	6.81	51.62
40	Gold	6(15.24)	MC	C6PPG-4006M-ND	11.68	88.52
	Tin	6(15.24)	MC	C6PPS-4006M-ND	9.04	68.54
	Gold	6(15.24)	GR	C6PPG-4006G-ND	10.67	80.88
	Tin	6(15.24)	GR	C6PPS-4006G-ND	8.03	60.91
	Gold	18(45.72)	MC	C6PPG-4018M-ND	14.76	111.87
	Tin	18(45.72)	MC	C6PPS-4018M-ND	12.12	91.89
	Gold	18(45.72)	GR	C6PPG-4018G-ND	11.74	88.96
	Tin	18(45.72)	GR	C6PPS-4018G-ND	9.10	68.99
	Gold	36(91.44)	MC	C6PPG-4036M-ND	19.38	146.89
	Tin	36(91.44)	MC	C6PPS-4036M-ND	16.74	126.92
	Gold	36(91.44)	GR	C6PPG-4036G-ND	13.33	101.08
	Tin	36(91.44)	GR	C6PPS-4036G-ND	10.70	81.11

Also available in the following version:
C6RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended Style 8

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

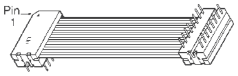

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
14	Gold	6(15.24)	MC	C8PPG-1406M-ND	4.22	32.03
	Tin	6(15.24)	MC	C8PPS-1406M-ND	3.54	26.86
	Gold	6(15.24)	GR	C8PPG-1406G-ND	3.84	29.12
	Tin	6(15.24)	GR	C8PPS-1406G-ND	3.16	23.95
	Gold	18(45.72)	MC	C8PPG-1418M-ND	5.35	40.52
	Tin	18(45.72)	MC	C8PPS-1418M-ND	4.66	35.35
	Gold	18(45.72)	GR	C8PPG-1418G-ND	4.20	31.80
	Tin	18(45.72)	GR	C8PPS-1418G-ND	3.51	26.63
	Gold	36(91.44)	MC	C8PPG-1436M-ND	7.03	53.27
	Tin	36(91.44)	MC	C8PPS-1436M-ND	6.34	48.10
	Gold	36(91.44)	GR	C8PPG-1436G-ND	4.73	35.83
	Tin	36(91.44)	GR	C8PPS-1436G-ND	4.04	30.66
16	Gold	6(15.24)	MC	C8PPG-1606M-ND	4.52	34.28
	Tin	6(15.24)	MC	C8PPS-1606M-ND	3.75	28.45
	Gold	6(15.24)	GR	C8PPG-1606G-ND	4.12	31.23
	Tin	6(15.24)	GR	C8PPS-1606G-ND	3.35	25.41
	Gold	18(45.72)	MC	C8PPG-1618M-ND	5.73	43.43
	Tin	18(45.72)	MC	C8PPS-1618M-ND	4.96	37.60
	Gold	18(45.72)	GR	C8PPG-1618G-ND	4.52	34.29
	Tin	18(45.72)	GR	C8PPS-1618G-ND	3.76	28.47
	Gold	36(91.44)	MC	C8PPG-1636M-ND	7.54	57.15
	Tin	36(91.44)	MC	C8PPS-1636M-ND	6.77	51.32
	Gold	36(91.44)	GR	C8PPG-1636G-ND	5.13	38.88
	Tin	36(91.44)	GR	C8PPS-1636G-ND	4.36	33.06
24	Gold	6(15.24)	MC	C8PPG-2406M-ND	7.38	55.95
	Tin	6(15.24)	MC	C8PPS-2406M-ND	6.10	46.27
	Gold	6(15.24)	GR	C8PPG-2406G-ND	6.74	51.11
	Tin	6(15.24)	GR	C8PPS-2406G-ND	5.46	41.43
	Gold	18(45.72)	MC	C8PPG-2418M-ND	9.20	69.72
	Tin	18(45.72)	MC	C8PPS-2418M-ND	7.92	60.04
	Gold	18(45.72)	GR	C8PPG-2418G-ND	7.28	55.19
	Tin	18(45.72)	GR	C8PPS-2418G-ND	6.00	45.51
	Gold	36(91.44)	MC	C8PPG-2436M-ND	11.92	90.37
	Tin	36(91.44)	MC	C8PPS-2436M-ND	10.64	80.68
	Gold	36(91.44)	GR	C8PPG-2436G-ND	8.09	61.31
	Tin	36(91.44)	GR	C8PPS-2436G-ND	6.81	51.62
40	Gold	6(15.24)	MC	C8PPG-4006M-ND	11.68	88.52
	Tin	6(15.24)	MC	C8PPS-4006M-ND	9.04	68.54
	Gold	6(15.24)	GR	C8PPG-4006G-ND	10.67	80.88
	Tin	6(15.24)	GR	C8PPS-4006G-ND	8.03	60.91
	Gold	18(45.72)	MC	C8PPG-4018M-ND	14.76	111.87
	Tin	18(45.72)	MC	C8PPS-4018M-ND	12.12	91.89
	Gold	18(45.72)	GR	C8PPG-4018G-ND	11.74	88.96
	Tin	18(45.72)	GR	C8PPS-4018G-ND	9.10	68.99
	Gold	36(91.44)	MC	C8PPG-4036M-ND	19.38	146.89
	Tin	36(91.44)	MC	C8PPS-4036M-ND	16.74	126.92
	Gold	36(91.44)	GR	C8PPG-4036G-ND	13.33	101.08
	Tin	36(91.44)	GR	C8PPS-4036G-ND	10.70	81.11

Also available in the following version:
C8RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

(Continued)

C□ □ □ □-□ □ □ □ □-ND

Style
2□□=Single-Ended
4□□=Single-Ended
6□□=Double-Ended
8□□=Double-Ended
0□□=Double-Ended

Cont. Finish
G=Gold (10Aμ)
S=Tin (RoHS)
T=Tin-Lead

No. of Contacts

Length ***(Use "Inches" only.)***

Ribbon Cable
M = Multi-Color
G = Gray

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

Dip Cable Assemblies *(Cont.)*

Double Ended Style 0

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

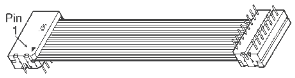

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
14	Gold	6(15.24)	MC	C0PPG-1406M-ND	4.22	32.03
	Tin	6(15.24)	MC	C0PPS-1406M-ND	3.54	26.86
	Gold	6(15.24)	GR	C0PPG-1406G-ND	3.84	29.12
	Tin	6(15.24)	GR	C0PPS-1406G-ND	3.16	23.95
	Gold	18(45.72)	MC	C0PPG-1418M-ND	5.35	40.52
	Tin	18(45.72)	MC	C0PPS-1418M-ND	4.66	35.35
	Gold	18(45.72)	GR	C0PPG-1418G-ND	4.20	31.80
	Tin	18(45.72)	GR	C0PPS-1418G-ND	3.51	26.63
	Gold	36(91.44)	MC	C0PPG-1436M-ND	7.03	53.27
	Tin	36(91.44)	MC	C0PPS-1436M-ND	6.34	48.10
	Gold	36(91.44)	GR	C0PPG-1436G-ND	4.73	35.83
	Tin	36(91.44)	GR	C0PPS-1436G-ND	4.04	30.66
16	Gold	6(15.24)	MC	C0PPG-1606M-ND	4.52	34.28
	Tin	6(15.24)	MC	C0PPS-1606M-ND	3.75	28.45
	Gold	6(15.24)	GR	C0PPG-1606G-ND	4.12	31.23
	Tin	6(15.24)	GR	C0PPS-1606G-ND	3.35	25.41
	Gold	18(45.72)	MC	C0PPG-1618M-ND	5.73	43.43
	Tin	18(45.72)	MC	C0PPS-1618M-ND	4.96	37.60
	Gold	18(45.72)	GR	C0PPG-1618G-ND	4.52	34.29
	Tin	18(45.72)	GR	C0PPS-1618G-ND	3.76	28.47
	Gold	36(91.44)	MC	C0PPG-1636M-ND	7.54	57.15
	Tin	36(91.44)	MC	C0PPS-1636M-ND	6.77	51.32
	Gold	36(91.44)	GR	C0PPG-1636G-ND	5.13	38.88
	Tin	36(91.44)	GR	C0PPS-1636G-ND	4.36	33.06
24	Gold	6(15.24)	MC	C0PPG-2406M-ND	7.38	55.95
	Tin	6(15.24)	MC	C0PPS-2406M-ND	6.10	46.27
	Gold	6(15.24)	GR	C0PPG-2406G-ND	6.74	51.11
	Tin	6(15.24)	GR	C0PPS-2406G-ND	5.46	41.43
	Gold	18(45.72)	MC	C0PPG-2418M-ND	9.20	69.72
	Tin	18(45.72)	MC	C0PPS-2418M-ND	7.92	60.04
	Gold	18(45.72)	GR	C0PPG-2418G-ND	7.28	55.19
	Tin	18(45.72)	GR	C0PPS-2418G-ND	6.00	45.51
	Gold	36(91.44)	MC	C0PPG-2436M-ND	11.92	90.37
	Tin	36(91.44)	MC	C0PPS-2436M-ND	10.64	80.68
	Gold	36(91.44)	GR	C0PPG-2436G-ND	8.09	61.31
	Tin	36(91.44)	GR	C0PPS-2436G-ND	6.81	51.62
40	Gold	6(15.24)	MC	C0PPG-4006M-ND	11.68	88.52
	Tin	6(15.24)	MC	C0PPS-4006M-ND	9.04	68.54
	Gold	6(15.24)	GR	C0PPG-4006G-ND	10.67	80.88
	Tin	6(15.24)	GR	C0PPS-4006G-ND	8.03	60.91
	Gold	18(45.72)	MC	C0PPG-4018M-ND	14.76	111.87
	Tin	18(45.72)	MC	C0PPS-4018M-ND	12.12	91.89
	Gold	18(45.72)	GR	C0PPG-4018G-ND	11.74	88.96
	Tin	18(45.72)	GR	C0PPS-4018G-ND	9.10	68.99
	Gold	36(91.44)	MC	C0PPG-4036M-ND	19.38	146.89
	Tin	36(91.44)	MC	C0PPS-4036M-ND	16.74	126.92
	Gold	36(91.44)	GR	C0PPG-4036G-ND	13.33	101.08
	Tin	36(91.44)	GR	C0PPS-4036G-ND	10.70	81.11

Also available in the following version:
C0RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Socket Connectors

Socket Connector

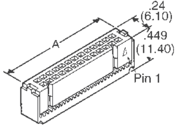

Socket Connector with Central Polarizing Key

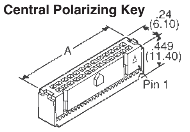

Socket Connector with Strain Relief

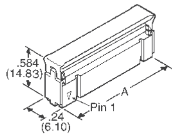

Socket Connector with Strain Relief and Central Polarizing Key

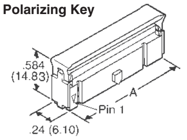

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 10µ inch gold (in mating area) over 50µ inch nickel or 100µ inch tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Strain Relief Strap Material:** Insulated stainless steel • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500VDC at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • **Withdrawal:** force 56.7g – 226.79g/contact, typical • Cover pull-off force 226.79g/contact, min. (force along contacts primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25
			Socket Connector			
10	Gold	.677(17.20)	CSC10G-ND◆	2.13	1.78	1.64
	Tin	.677(17.20)	CSC10S-ND◆	1.70	1.32	1.23
14	Gold	.877(22.28)	CSC14G-ND◆	2.54	2.11	1.96
	Tin	.877(22.28)	CSC14S-ND◆	1.73	1.44	1.33
16	Gold	.977(24.82)	CSC16G-ND◆	2.76	2.29	2.12
	Tin	.977(24.82)	CSC16S-ND◆	2.00	1.67	1.54
20	Gold	1.177(29.90)	CSC20G-ND◆	2.88	2.40	2.22
	Tin	1.177(29.90)	CSC20S-ND◆	2.11	1.76	1.63
26	Gold	1.477(37.52)	CSC26G-ND◆	3.29	2.73	2.56
	Tin	1.477(37.52)	CSC26S-ND◆	2.51	2.09	1.93
34	Gold	1.877(47.68)	CSC34G-ND◆	4.13	3.42	3.21
	Tin	1.877(47.68)	CSC34S-ND◆	3.07	2.56	2.37
	Tin-Lead	1.877(47.68)	CSC34T-ND	2.33	1.98	1.89
40	Gold	2.177(55.30)	CSC40G-ND◆	4.97	4.12	3.86
	Tin	2.177(55.30)	CSC40S-ND◆	3.02	2.51	2.35
50	Gold	2.677(68.00)	CSC50G-ND◆	5.77	4.78	4.48
	Tin	2.677(68.00)	CSC50S-ND◆	3.63	3.01	2.82
60	Gold	3.177(80.70)	CSC60G-ND◆	6.59	5.58	5.33
	Tin	3.177(80.70)	CSC60S-ND◆	4.42	3.66	3.43
	Tin-Lead	3.177(80.70)	CSC60T-ND	3.33	3.04	2.90
			Socket Connector With Strain Relief			
10	Gold	.677(17.20)	CSR10G-ND◆	3.01	2.51	2.32
	Tin	.677(17.20)	CSR10S-ND◆	2.34	1.95	1.80
14	Gold	.877(22.28)	CSR14G-ND◆	3.08	2.57	2.38
	Tin	.877(22.28)	CSR14S-ND◆	2.48	2.06	1.91
	Tin-Lead	.877(22.28)	CSR14T-ND	1.88	1.59	1.52
16	Gold	.977(24.82)	CSR16G-ND◆	3.12	2.60	2.40
	Tin	.977(24.82)	CSR16S-ND◆	2.13	1.77	1.64
20	Gold	1.177(29.90)	CSR20G-ND◆	2.97	2.46	2.31
	Tin	1.177(29.90)	CSR20S-ND◆	2.34	1.95	1.80
26	Gold	1.477(37.52)	CSR26G-ND◆	3.65	3.03	2.84
	Tin	1.477(37.52)	CSR26S-ND◆	2.72	2.26	2.09
	Tin-Lead	1.477(37.52)	CSR26T-ND◆	2.02	1.72	1.64
34	Gold	1.877(47.68)	CSR34G-ND◆	4.54	3.76	3.53
	Tin	1.877(47.68)	CSR34S-ND◆	2.99	2.48	2.32
40	Gold	2.177(55.30)	CSR40G-ND◆	5.37	4.44	4.17
	Tin	2.177(55.30)	CSR40S-ND◆	3.22	2.67	2.50
50	Gold	2.677(68.00)	CSR50G-ND◆	6.21	5.15	4.82
	Tin	2.677(68.00)	CSR50S-ND◆	3.83	3.18	2.98
60	Gold	3.177(80.70)	CSR60G-ND◆	6.96	5.90	5.63
	Tin	3.177(80.70)	CSR60S-ND◆	4.67	3.87	3.63
	Tin-Lead	3.177(80.70)	CSR60T-ND	3.52	3.21	3.06
			Socket Connector With Polarizing Key			
10	Gold	.677(17.20)	CKC10G-ND◆	2.13	1.78	1.64
	Tin	.677(17.20)	CKC10S-ND◆	1.70	1.32	1.23
14	Gold	.877(22.28)	CKC14G-ND◆	2.54	2.11	1.96
	Tin	.877(22.28)	CKC14S-ND◆	1.73	1.44	1.33
16	Gold	.977(24.82)	CKC16G-ND◆	2.76	2.30	2.13
	Tin	.977(24.82)	CKC16S-ND◆	2.00	1.67	1.54
20	Gold	1.177(29.90)	CKC20G-ND◆	2.88	2.40	2.22
	Tin	1.177(29.90)	CKC20S-ND◆	2.11	1.76	1.63
26	Gold	1.477(37.52)	CKC26G-ND◆	3.29	2.73	2.56
	Tin	1.477(37.52)	CKC26S-ND◆	2.51	2.09	1.93
34	Gold	1.877(47.68)	CKC34G-ND◆	4.13	3.42	3.21
	Tin	1.877(47.68)	CKC34S-ND◆	3.07	2.56	2.37
	Tin-Lead	1.877(47.68)	CKC34T-ND	2.33	1.98	1.89
40	Gold	2.177(55.30)	CKC40G-ND◆	4.96	4.11	3.86
	Tin	2.177(55.30)	CKC40S-ND◆	3.02	2.51	2.35
	Tin-Lead	2.177(55.30)	CKC40T-ND	2.28	2.08	1.99
50	Gold	2.677(68.00)	CKC50G-ND◆	5.77	4.78	4.48
	Tin	2.677(68.00)	CKC50S-ND◆	3.63	3.01	2.82
60	Gold	3.177(80.70)	CKC60G-ND◆	6.58	5.57	5.32
	Tin	3.177(80.70)	CKC60S-ND◆	4.42	3.66	3.43
			Socket Connector w/Polarizing Key and Strain Relief			
10	Gold	.677(17.20)	CKR10G-ND◆	3.01	2.51	2.32
	Tin	.677(17.20)	CKR10S-ND◆	2.33	1.94	1.80
14	Gold	.877(22.28)	CKR14G-ND◆	3.08	2.57	2.38
	Tin	.877(22.28)	CKR14S-ND◆	2.48	2.06	1.91
	Tin-Lead	.877(22.28)	CKR14T-ND	1.88	1.59	1.52
16	Gold	.977(24.82)	CKR16G-ND◆	3.12	2.60	2.41
	Tin	.977(24.82)	CKR16S-ND◆	2.23	1.86	1.72
20	Gold	1.177(29.90)	CKR20G-ND◆	2.97	2.46	2.31
	Tin	1.177(29.90)	CKR20S-ND◆	2.34	1.95	1.80
26	Gold	1.477(37.52)	CKR26G-ND◆	3.65	3.03	2.84
	Tin	1.477(37.52)	CKR26S-ND◆	2.72	2.26	2.09
	Tin-Lead	1.477(37.52)	CKR26T-ND	2.06	1.75	1.67
34	Gold	1.877(47.68)	CKR34G-ND◆	4.54	3.76	3.52
	Tin	1.877(47.68)	CKR34S-ND◆	2.99	2.48	2.32
40	Gold	2.177(55.30)	CKR40G-ND◆	5.37	4.44	4.17
	Tin	2.177(55.30)	CKR40S-ND◆	3.22	2.67	2.50
50	Gold	2.677(68.00)	CKR50G-ND◆	6.21	5.15	4.82
	Tin	2.677(68.00)	CKR50S-ND◆	3.83	3.18	2.98
60	Gold	3.177(80.70)	CKR60G-ND◆	6.95	5.89	5.62
	Tin	3.177(80.70)	CKR60S-ND◆	4.66	3.86	3.62

PK-1-ND Polarizing Key………………… **$1.59/2** **$5.57/10** **$12.40/26**
◆ ***RoHS Compliant***

PCB Connectors

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 100µ in tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Operating Temperature:** - 55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500VDC at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$. Cover pull-off force, without strain relief, 5.60kg. minimum (force along contacts primary axis)

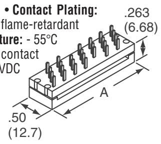

No. of Cont.	Cont. Finish	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25
10	Tin	.700(17.78)	CPC10S-ND◆	1.73	1.34	1.25
•20	Tin	1.200(30.48)	CPC20S-ND◆	1.74	1.45	1.34
26	Tin	1.500(38.10)	CPC26S-ND◆	2.26	1.88	1.74
34	Tin	1.900(48.26)	CPC34S-ND◆	2.72	2.27	2.10
•40	Tin	2.200(55.88)	CPC40S-ND◆	2.97	2.46	2.31
50	Tin	2.700(68.58)	CPC50S-ND◆	3.47	2.87	2.70
•60	Tin	3.200(81.28)	CPC60S-ND◆	3.99	3.30	3.10
	Tin-Lead	3.200(81.28)	CPC60T-ND	3.40	3.11	2.96

• Full row version. ("Special Center" version shown above.)
◆ ***RoHS Compliant***

Card Edge Connectors

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 10µ inch gold (in mating area) over 50µ inch nickel or 100µ inch tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Operational Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • Cover pull-off force 226.79g./contact min. (force along contacts primary axis)

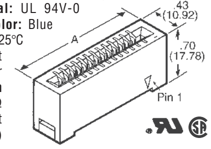

No. of Cont.	Cont. Finish	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25
10	Gold	.976(24.79)	CCE10G-ND◆	2.91	2.42	2.24
	Tin	.976(24.79)	CCE10S-ND◆	2.79	2.32	2.15
	Tin-Lead	.976(24.79)	CCE10T-ND	2.11	1.79	1.71
20	Gold	1.476(37.49)	CCE20G-ND◆	3.47	2.87	2.70
	Tin	1.476(37.49)	CCE20S-ND◆	3.16	2.62	2.46
	Tin-Lead	1.476(37.49)	CCE20T-ND	2.38	2.18	2.08
26	Gold	1.776(45.11)	CCE26G-ND◆	4.15	3.44	3.22
	Tin	1.776(45.11)	CCE26S-ND◆	3.78	3.13	2.94
34	Gold	2.176(55.27)	CCE34G-ND◆	5.14	4.26	3.99
	Tin	2.176(55.27)	CCE34S-ND◆	4.72	3.91	3.67
	Tin-Lead	2.176(55.27)	CCE34T-ND	3.56	3.25	3.10
40	Gold	2.476(62.89)	CCE40G-ND◆	6.02	4.99	4.68
	Tin	2.476(62.89)	CCE40S-ND◆	5.49	4.55	4.26
	Tin-Lead	2.476(62.89)	CCE40T-ND	4.14	3.78	3.60
50	Gold	2.976(75.59)	CCE50G-ND◆	6.78	5.61	5.26
	Tin	2.976(75.59)	CCE50S-ND◆	6.17	5.11	4.79
	Tin-Lead	2.976(75.59)	CCE50T-ND	4.65	4.25	4.05

PK-2-ND Polarizing Key…………………… **$1.59/2** **$5.57/10** **$12.40/26**
◆ ***RoHS Compliant***

Termination Jumpers

Socket Connector — Single Ended

* MC = Multi Color,
GR = Gray

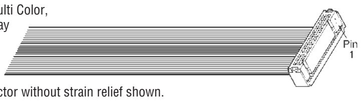

Dip connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	10
10	Gold	36(91.44)	MC	C1AXG-1036M-ND	4.44	3.37
	Tin	36(91.44)	MC	C1AXS-1036M-ND	3.79	2.88
	Gold	36(91.44)	GR	C1AXG-1036G-ND	2.79	2.12
	Tin	36(91.44)	GR	C1AXS-1036G-ND	2.14	1.63

(Continued)

C□□□□-□□□□□-ND

Style
Cont. Finish
G=Gold (10Aµ)
S=Tin (RoHS)
T=Tin-Lead
No. Of Contacts
Length ***(Use "Inches" only.)***
Ribbon Cable
M=Multi-color
G=Gray

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

Termination Jumpers

Socket Connector — Single Ended *(Cont.)*

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
14	Gold	36(91.44)	MC	C1AXG-1436M-ND	5.78	4.39
	Tin	36(91.44)	MC	C1AXS-1436M-ND	5.01	3.80
	Gold	36(91.44)	GR	C1AXG-1436G-ND	3.48	2.64
	Tin	36(91.44)	GR	C1AXS-1436G-ND	2.71	2.06
16	Gold	36(91.44)	MC	C1AXG-1636M-ND	6.25	4.74
	Tin	36(91.44)	MC	C1AXS-1636M-ND	5.53	4.20
	Gold	36(91.44)	GR	C1AXG-1636G-ND	3.84	2.92
	Tin	36(91.44)	GR	C1AXS-1636G-ND	3.12	2.37
20	Gold	36(91.44)	MC	C1AXG-2036M-ND	7.29	5.53
	Tin	36(91.44)	MC	C1AXS-2036M-ND	6.55	4.97
	Gold	36(91.44)	GR	C1AXG-2036G-ND	4.46	3.39
	Tin	36(91.44)	GR	C1AXS-2036G-ND	3.73	2.83
26	Gold	36(91.44)	MC	C1AXG-2636M-ND	9.43	7.15
	Tin	36(91.44)	MC	C1AXS-2636M-ND	8.30	6.30
	Gold	36(91.44)	GR	C1AXG-2636G-ND	5.64	4.28
	Tin	36(91.44)	GR	C1AXS-2636G-ND	4.51	3.42
34	Gold	36(91.44)	MC	C1AXG-3436M-ND	12.14	9.21
	Tin	36(91.44)	MC	C1AXS-3436M-ND	10.65	8.08
	Gold	36(91.44)	GR	C1AXG-3436G-ND	6.70	5.09
	Tin	36(91.44)	GR	C1AXS-3436G-ND	5.22	3.96
40	Gold	36(91.44)	MC	C1AXG-4036M-ND	14.55	11.03
	Tin	36(91.44)	MC	C1AXS-4036M-ND	12.47	9.46
	Gold	36(91.44)	GR	C1AXG-4036G-ND	8.51	6.45
	Tin	36(91.44)	GR	C1AXS-4036G-ND	6.43	4.88
50	Gold	36(91.44)	MC	C1AXG-5036M-ND	17.58	13.33
	Tin	36(91.44)	MC	C1AXS-5036M-ND	15.28	11.59
	Gold	36(91.44)	GR	C1AXG-5036G-ND	9.53	7.23
	Tin	36(91.44)	GR	C1AXS-5036G-ND	7.24	5.50
60	Gold	36(91.44)	MC	C1AXG-6036M-ND	21.60	16.38
	Tin	36(91.44)	MC	C1AXS-6036M-ND	18.46	14.00
	Gold	36(91.44)	GR	C1AXG-6036G-ND	12.41	9.41
	Tin	36(91.44)	GR	C1AXS-6036G-ND	9.27	7.03

Also available in the following versions:

C1BX□-□□□□□-ND – Socket Connector with Strain Relief.
C1CX□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C1DX□-□□□□□-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector – Single Ended

* MC = Multi-Color,
GR = Gray

PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	36(91.44)	MC	C1PXS-1036M-ND	3.81	2.90
	Tin	36(91.44)	GR	C1PXS-1036G-ND	2.16	1.65
20	Tin	36(91.44)	MC	C1PXS-2036M-ND	6.20	4.71
	Tin	36(91.44)	GR	C1PXS-2036G-ND	3.38	2.57
26	Tin	36(91.44)	MC	C1PXS-2636M-ND	8.07	6.12
	Tin	36(91.44)	GR	C1PXS-2636G-ND	4.27	3.24
34	Tin	36(91.44)	MC	C1PXS-3436M-ND	10.32	7.83
	Tin	36(91.44)	GR	C1PXS-3436G-ND	4.88	3.71
40	Tin	36(91.44)	MC	C1PXS-4036M-ND	12.42	9.42
	Tin	36(91.44)	GR	C1PXS-4036G-ND	6.38	4.84
50	Tin	36(91.44)	MC	C1PXS-5036M-ND	15.11	11.46
	Tin	36(91.44)	GR	C1PXS-5036G-ND	7.07	5.36
60	Tin	36(91.44)	MC	C1PXS-6036M-ND	18.00	13.65
	Tin	36(91.44)	GR	C1PXS-6036G-ND	8.82	6.69

Card Edge Connector – Single Ended

* MC = Multi-Color,
GR = Gray

Card Edge connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	36(91.44)	MC	C1EXG-1036M-ND	5.18	3.93
	Tin	36(91.44)	MC	C1EXS-1036M-ND	5.06	3.84
	Gold	36(91.44)	GR	C1EXG-1036G-ND	3.53	2.68
	Tin	36(91.44)	GR	C1EXS-1036G-ND	3.41	2.59
20	Gold	36(91.44)	MC	C1EXG-2036M-ND	8.25	6.26
	Tin	36(91.44)	MC	C1EXS-2036M-ND	7.92	6.01
	Gold	36(91.44)	GR	C1EXG-2036G-ND	5.42	4.12
	Tin	36(91.44)	GR	C1EXS-2036G-ND	5.10	3.87
26	Gold	36(91.44)	MC	C1EXG-2636M-ND	10.34	7.85
	Tin	36(91.44)	MC	C1EXS-2636M-ND	9.95	7.55
	Gold	36(91.44)	GR	C1EXG-2636G-ND	6.55	4.97
	Tin	36(91.44)	GR	C1EXS-2636G-ND	6.16	4.67
34	Gold	36(91.44)	MC	C1EXG-3436M-ND	13.22	10.02
	Tin	36(91.44)	MC	C1EXS-3436M-ND	12.77	9.68
	Gold	36(91.44)	GR	C1EXG-3436G-ND	7.78	5.90
	Tin	36(91.44)	GR	C1EXS-3436G-ND	7.33	5.56
40	Gold	36(91.44)	MC	C1EXG-4036M-ND	15.68	11.89
	Tin	36(91.44)	MC	C1EXS-4036M-ND	15.11	11.46
	Gold	36(91.44)	GR	C1EXG-4036G-ND	9.63	7.31
	Tin	36(91.44)	GR	C1EXS-4036G-ND	9.07	6.88
50	Gold	36(91.44)	MC	C1EXG-5036M-ND	18.65	14.14
	Tin	36(91.44)	MC	C1EXS-5036M-ND	18.00	13.65
	Gold	36(91.44)	GR	C1EXG-5036G-ND	10.61	8.05
	Tin	36(91.44)	GR	C1EXS-5036G-ND	9.96	7.55

Socket Connector to Socket Connector

* MC = Multi-Color
GR = Gray

Socket connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	6(15.24)	MC	C3AAG-1006M-ND	4.47	3.39
	Tin	6(15.24)	MC	C3AAS-1006M-ND	3.17	2.41
	Gold	6(15.24)	GR	C3AAG-1006G-ND	4.19	3.18
	Tin	6(15.24)	GR	C3AAS-1006G-ND	2.90	2.20
	Gold	18(45.72)	MC	C3AAG-1018M-ND	5.27	4.00
	Tin	18(45.72)	MC	C3AAS-1018M-ND	3.97	3.02
	Gold	18(45.72)	GR	C3AAG-1018G-ND	4.45	3.37
	Tin	18(45.72)	GR	C3AAS-1018G-ND	3.15	2.39
	Gold	36(91.44)	MC	C3AAG-1036M-ND	6.47	4.91
	Tin	36(91.44)	MC	C3AAS-1036M-ND	5.18	3.93
	Gold	36(91.44)	GR	C3AAG-1036G-ND	4.82	3.66
	Tin	36(91.44)	GR	C3AAS-1036G-ND	3.53	2.68
14	Gold	6(15.24)	MC	C3AAG-1406M-ND	5.40	4.10
	Tin	6(15.24)	MC	C3AAS-1406M-ND	3.86	2.93
	Gold	6(15.24)	GR	C3AAG-1406G-ND	5.02	3.81
	Tin	6(15.24)	GR	C3AAS-1406G-ND	3.48	2.64
	Gold	18(45.72)	MC	C3AAG-1418M-ND	6.52	4.95
	Tin	18(45.72)	MC	C3AAS-1418M-ND	4.98	3.78
	Gold	18(45.72)	GR	C3AAG-1418G-ND	5.37	4.08
	Tin	18(45.72)	GR	C3AAS-1418G-ND	3.83	2.91
	Gold	36(91.44)	MC	C3AAG-1436M-ND	8.20	6.22
	Tin	36(91.44)	MC	C3AAS-1436M-ND	6.66	5.05
	Gold	36(91.44)	GR	C3AAG-1436G-ND	5.90	4.48
	Tin	36(91.44)	GR	C3AAS-1436G-ND	4.36	3.31
16	Gold	6(15.24)	MC	C3AAG-1606M-ND	5.86	4.45
	Tin	6(15.24)	MC	C3AAS-1606M-ND	4.42	3.36
	Gold	6(15.24)	GR	C3AAG-1606G-ND	5.46	4.14
	Tin	6(15.24)	GR	C3AAS-1606G-ND	4.02	3.05
	Gold	18(45.72)	MC	C3AAG-1618M-ND	7.07	5.36
	Tin	18(45.72)	MC	C3AAS-1618M-ND	5.63	4.27
	Gold	18(45.72)	GR	C3AAG-1618G-ND	5.86	4.45
	Tin	18(45.72)	GR	C3AAS-1618G-ND	4.42	3.36
	Gold	36(91.44)	MC	C3AAG-1636M-ND	8.88	6.73
	Tin	36(91.44)	MC	C3AAS-1636M-ND	7.44	5.64
	Gold	36(91.44)	GR	C3AAG-1636G-ND	6.47	4.91
	Tin	36(91.44)	GR	C3AAS-1636G-ND	5.03	3.82
20	Gold	6(15.24)	MC	C3AAG-2006M-ND	6.25	4.74
	Tin	6(15.24)	MC	C3AAS-2006M-ND	4.78	3.63
	Gold	6(15.24)	GR	C3AAG-2006G-ND	5.78	4.39
	Tin	6(15.24)	GR	C3AAS-2006G-ND	4.31	3.27
	Gold	18(45.72)	MC	C3AAG-2018M-ND	7.76	5.89
	Tin	18(45.72)	MC	C3AAS-2018M-ND	6.29	4.78
	Gold	18(45.72)	GR	C3AAG-2018G-ND	6.35	4.82
	Tin	18(45.72)	GR	C3AAS-2018G-ND	4.88	3.71
	Gold	36(91.44)	MC	C3AAG-2036M-ND	10.04	7.61
	Tin	36(91.44)	MC	C3AAS-2036M-ND	8.57	6.50
	Gold	36(91.44)	GR	C3AAG-2036G-ND	7.21	5.47
	Tin	36(91.44)	GR	C3AAS-2036G-ND	5.74	4.36
26	Gold	6(15.24)	MC	C3AAG-2606M-ND	8.03	6.09
	Tin	6(15.24)	MC	C3AAS-2606M-ND	5.77	4.38
	Gold	6(15.24)	GR	C3AAG-2606G-ND	7.40	5.61
	Tin	6(15.24)	GR	C3AAS-2606G-ND	5.14	3.90
	Gold	18(45.72)	MC	C3AAG-2618M-ND	10.00	7.58
	Tin	18(45.72)	MC	C3AAS-2618M-ND	7.74	5.87
	Gold	18(45.72)	GR	C3AAG-2618G-ND	8.10	6.15
	Tin	18(45.72)	GR	C3AAS-2618G-ND	5.84	4.44
	Gold	36(91.44)	MC	C3AAG-2636M-ND	12.95	9.82
	Tin	36(91.44)	MC	C3AAS-2636M-ND	10.70	8.11
	Gold	36(91.44)	GR	C3AAG-2636G-ND	9.16	6.95
	Tin	36(91.44)	GR	C3AAS-2636G-ND	6.90	5.24
34	Gold	6(15.24)	MC	C3AAG-3406M-ND	10.12	7.68
	Tin	6(15.24)	MC	C3AAS-3406M-ND	7.15	5.43
	Gold	6(15.24)	GR	C3AAG-3406G-ND	9.22	6.99
	Tin	6(15.24)	GR	C3AAS-3406G-ND	6.25	4.74
	Gold	18(45.72)	MC	C3AAG-3418M-ND	12.70	9.63
	Tin	18(45.72)	MC	C3AAS-3418M-ND	9.73	7.38
	Gold	18(45.72)	GR	C3AAG-3418G-ND	9.98	7.57
	Tin	18(45.72)	GR	C3AAS-3418G-ND	7.01	5.32
	Gold	36(91.44)	MC	C3AAG-3436M-ND	16.56	12.56
	Tin	36(91.44)	MC	C3AAS-3436M-ND	13.59	10.30
	Gold	36(91.44)	GR	C3AAG-3436G-ND	11.12	8.44
	Tin	36(91.44)	GR	C3AAS-3436G-ND	8.15	6.18
40	Gold	6(15.24)	MC	C3AAG-4006M-ND	12.16	9.22
	Tin	6(15.24)	MC	C3AAS-4006M-ND	8.01	6.07
	Gold	6(15.24)	GR	C3AAG-4006G-ND	11.15	8.46
	Tin	6(15.24)	GR	C3AAS-4006G-ND	7.00	5.31
	Gold	18(45.72)	MC	C3AAG-4018M-ND	15.24	11.56
	Tin	18(45.72)	MC	C3AAS-4018M-ND	11.09	8.41
	Gold	18(45.72)	GR	C3AAG-4018G-ND	12.22	9.27
	Tin	18(45.72)	GR	C3AAS-4018G-ND	8.07	6.12
	Gold	36(91.44)	MC	C3AAG-4036M-ND	19.86	15.06
	Tin	36(91.44)	MC	C3AAS-4036M-ND	15.71	11.91
	Gold	36(91.44)	GR	C3AAG-4036G-ND	13.82	10.48
	Tin	36(91.44)	GR	C3AAS-4036G-ND	9.66	7.33
50	Gold	6(15.24)	MC	C3AAG-5006M-ND	14.24	10.80
	Tin	6(15.24)	MC	C3AAS-5006M-ND	9.66	7.33
	Gold	6(15.24)	GR	C3AAG-5006G-ND	12.90	9.79
	Tin	6(15.24)	GR	C3AAS-5006G-ND	8.32	6.31
	Gold	18(45.72)	MC	C3AAG-5018M-ND	18.05	13.68
	Tin	18(45.72)	MC	C3AAS-5018M-ND	13.46	10.21
	Gold	18(45.72)	GR	C3AAG-5018G-ND	14.03	10.64
	Tin	18(45.72)	GR	C3AAS-5018G-ND	9.44	7.16
	Gold	36(91.44)	MC	C3AAG-5036M-ND	23.75	18.01
	Tin	36(91.44)	MC	C3AAS-5036M-ND	19.17	14.53
	Gold	36(91.44)	GR	C3AAG-5036G-ND	15.71	11.91
	Tin	36(91.44)	GR	C3AAS-5036G-ND	11.13	8.44
60	Gold	6(15.24)	MC	C3AAG-6006M-ND	18.01	13.65
	Tin	6(15.24)	MC	C3AAS-6006M-ND	11.73	8.90
	Gold	6(15.24)	GR	C3AAG-6006G-ND	16.48	12.49
	Tin	6(15.24)	GR	C3AAS-6006G-ND	10.20	7.74
	Gold	18(45.72)	MC	C3AAG-6018M-ND	22.59	17.13
	Tin	18(45.72)	MC	C3AAS-6018M-ND	16.31	12.37
	Gold	18(45.72)	GR	C3AAG-6018G-ND	17.99	13.64
	Tin	18(45.72)	GR	C3AAS-6018G-ND	11.72	8.89
	Gold	36(91.44)	MC	C3AAG-6036M-ND	29.45	22.33
	Tin	36(91.44)	MC	C3AAS-6036M-ND	23.18	17.58
	Gold	36(91.44)	GR	C3AAG-6036G-ND	20.27	15.37
	Tin	36(91.44)	GR	C3AAS-6036G-ND	14.00	10.61

Also available in the following versions:

C3BB□-□□□□□-ND — Socket Connector with Strain Relief.
C3CC□-□□□□□-ND — Socket Connector with Central Polarizing Key.
C3DD□-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector to PCB Connector

* MC = Multi-Color
GR = Gray

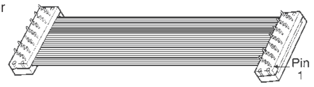

PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	6(15.24)	MC	C3PPS-1006M-ND	3.22	2.44
	Tin	6(15.24)	GR	C3PPS-1006G-ND	2.94	2.23
	Tin	18(45.72)	MC	C3PPS-1018M-ND	4.02	3.05
	Tin	18(45.72)	GR	C3PPS-1018G-ND	3.19	2.43
	Tin	36(91.44)	MC	C3PPS-1036M-ND	5.22	3.96
	Tin	36(91.44)	GR	C3PPS-1036G-ND	3.57	2.71
20	Tin	6(15.24)	MC	C3PPS-2006M-ND	4.08	3.10
	Tin	6(15.24)	GR	C3PPS-2006G-ND	3.61	2.74
	Tin	18(45.72)	MC	C3PPS-2018M-ND	5.59	4.25
	Tin	18(45.72)	GR	C3PPS-2018G-ND	4.18	3.17
	Tin	36(91.44)	MC	C3PPS-2036M-ND	7.87	5.97
	Tin	36(91.44)	GR	C3PPS-2036G-ND	5.04	3.82
26	Tin	6(15.24)	MC	C3PPS-2606M-ND	5.30	4.02
	Tin	6(15.24)	GR	C3PPS-2606G-ND	4.67	3.54
	Tin	18(45.72)	MC	C3PPS-2618M-ND	7.27	5.52
	Tin	18(45.72)	GR	C3PPS-2618G-ND	5.37	4.08
	Tin	36(91.44)	MC	C3PPS-2636M-ND	10.23	7.76
	Tin	36(91.44)	GR	C3PPS-2636G-ND	6.43	4.88
34	Tin	6(15.24)	MC	C3PPS-3406M-ND	6.48	4.92
	Tin	6(15.24)	GR	C3PPS-3406G-ND	5.58	4.23
	Tin	18(45.72)	MC	C3PPS-3418M-ND	9.06	6.87
	Tin	18(45.72)	GR	C3PPS-3418G-ND	6.34	4.81
	Tin	36(91.44)	MC	C3PPS-3436M-ND	12.92	9.80
	Tin	36(91.44)	GR	C3PPS-3436G-ND	7.48	5.68
40	Tin	6(15.24)	MC	C3PPS-4006M-ND	7.90	5.99
	Tin	6(15.24)	GR	C3PPS-4006G-ND	6.89	5.23
	Tin	18(45.72)	MC	C3PPS-4018M-ND	10.98	8.32
	Tin	18(45.72)	GR	C3PPS-4018G-ND	7.95	6.03
	Tin	36(91.44)	MC	C3PPS-4036M-ND	15.60	11.83
	Tin	36(91.44)	GR	C3PPS-4036G-ND	9.55	7.25
50	Tin	6(15.24)	MC	C3PPS-5006M-ND	9.32	7.07
	Tin	6(15.24)	GR	C3PPS-5006G-ND	7.98	6.05
	Tin	18(45.72)	MC	C3PPS-5018M-ND	13.12	9.95
	Tin	18(45.72)	GR	C3PPS-5018G-ND	9.10	6.90
	Tin	36(91.44)	MC	C3PPS-5036M-ND	18.82	14.27
	Tin	36(91.44)	GR	C3PPS-5036G-ND	10.78	8.17
60	Tin	6(15.24)	MC	C3PPS-6006M-ND	10.81	8.20
	Tin	6(15.24)	GR	C3PPS-6006G-ND	9.28	7.04
	Tin	18(45.72)	MC	C3PPS-6018M-ND	15.39	11.67
	Tin	18(45.72)	GR	C3PPS-6018G-ND	10.80	8.19
	Tin	36(91.44)	MC	C3PPS-6036M-ND	22.26	16.88
	Tin	36(91.44)	GR	C3PPS-6036G-ND	13.08	9.92

(Continued)

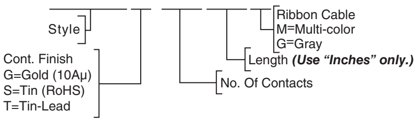

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

Termination Jumpers *(Cont.)*

Card Edge to Card Edge

* MC = Multi-Color
GR = Gray

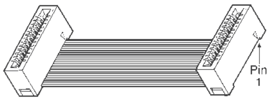

Card Edge connector without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	10
10	Gold	6(15.24)	MC	C3EEG-1006M-ND	5.94	4.51
	Tin	6(15.24)	MC	C3EES-1006M-ND	5.71	4.34
	Gold	6(15.24)	GR	C3EEG-1006G-ND	5.67	4.30
	Tin	6(15.24)	GR	C3EES-1006G-ND	5.44	4.13
	Gold	18(45.72)	MC	C3EEG-1018M-ND	6.75	5.12
	Tin	18(45.72)	MC	C3EES-1018M-ND	6.52	4.94
	Gold	18(45.72)	GR	C3EEG-1018G-ND	5.92	4.49
	Tin	18(45.72)	GR	C3EES-1018G-ND	5.69	4.32
	Gold	36(91.44)	MC	C3EEG-1036M-ND	7.95	6.03
	Tin	36(91.44)	MC	C3EES-1036M-ND	7.72	5.86
	Gold	36(91.44)	GR	C3EEG-1036G-ND	6.30	4.78
	Tin	36(91.44)	GR	C3EES-1036G-ND	6.07	4.61
20	Gold	6(15.24)	MC	C3EEG-2006M-ND	8.17	6.20
	Tin	6(15.24)	MC	C3EES-2006M-ND	7.51	5.70
	Gold	6(15.24)	GR	C3EEG-2006G-ND	7.70	5.84
	Tin	6(15.24)	GR	C3EES-2006G-ND	7.04	5.34
	Gold	18(45.72)	MC	C3EEG-2018M-ND	9.69	7.35
	Tin	18(45.72)	MC	C3EES-2018M-ND	9.03	6.85
	Gold	18(45.72)	GR	C3EEG-2018G-ND	8.27	6.28
	Tin	18(45.72)	GR	C3EES-2018G-ND	7.62	5.78
	Gold	36(91.44)	MC	C3EEG-2036M-ND	11.96	9.07
	Tin	36(91.44)	MC	C3EES-2036M-ND	11.30	8.57
	Gold	36(91.44)	GR	C3EEG-2036G-ND	9.13	6.93
	Tin	36(91.44)	GR	C3EES-2036G-ND	8.47	6.43
26	Gold	6(15.24)	MC	C3EEG-2606M-ND	9.85	7.47
	Tin	6(15.24)	MC	C3EES-2606M-ND	9.06	6.88
	Gold	6(15.24)	GR	C3EEG-2606G-ND	9.22	6.99
	Tin	6(15.24)	GR	C3EES-2606G-ND	8.43	6.40
	Gold	18(45.72)	MC	C3EEG-2618M-ND	11.82	8.97
	Tin	18(45.72)	MC	C3EES-2618M-ND	11.03	8.37
	Gold	18(45.72)	GR	C3EEG-2618G-ND	9.92	7.53
	Tin	18(45.72)	GR	C3EES-2618G-ND	9.14	6.93
	Gold	36(91.44)	MC	C3EEG-2636M-ND	14.78	11.21
	Tin	36(91.44)	MC	C3EES-2636M-ND	13.99	10.61
	Gold	36(91.44)	GR	C3EEG-2636G-ND	10.98	8.33
	Tin	36(91.44)	GR	C3EES-2636G-ND	10.20	7.73
34	Gold	6(15.24)	MC	C3EEG-3406M-ND	12.28	9.31
	Tin	6(15.24)	MC	C3EES-3406M-ND	11.38	8.63
	Gold	6(15.24)	GR	C3EEG-3406G-ND	11.37	8.63
	Tin	6(15.24)	GR	C3EES-3406G-ND	10.47	7.94
	Gold	18(45.72)	MC	C3EEG-3418M-ND	14.85	11.26
	Tin	18(45.72)	MC	C3EES-3418M-ND	13.95	10.58
	Gold	18(45.72)	GR	C3EEG-3418G-ND	12.14	9.20
	Tin	18(45.72)	GR	C3EES-3418G-ND	11.24	8.52
	Gold	36(91.44)	MC	C3EEG-3436M-ND	18.71	14.19
	Tin	36(91.44)	MC	C3EES-3436M-ND	17.81	13.51
	Gold	36(91.44)	GR	C3EEG-3436G-ND	13.28	10.07
	Tin	36(91.44)	GR	C3EES-3436G-ND	12.38	9.39
40	Gold	6(15.24)	MC	C3EEG-4006M-ND	14.41	10.93
	Tin	6(15.24)	MC	C3EES-4006M-ND	13.28	10.07
	Gold	6(15.24)	GR	C3EEG-4006G-ND	13.40	10.17
	Tin	6(15.24)	GR	C3EES-4006G-ND	12.27	9.31
	Gold	18(45.72)	MC	C3EEG-4018M-ND	17.49	13.26
	Tin	18(45.72)	MC	C3EES-4018M-ND	16.36	12.40
	Gold	18(45.72)	GR	C3EEG-4018G-ND	14.47	10.97
	Tin	18(45.72)	GR	C3EES-4018G-ND	13.34	10.11
	Gold	36(91.44)	MC	C3EEG-4036M-ND	22.11	16.77
	Tin	36(91.44)	MC	C3EES-4036M-ND	20.98	15.91
	Gold	36(91.44)	GR	C3EEG-4036G-ND	16.07	12.19
	Tin	36(91.44)	GR	C3EES-4036G-ND	14.93	11.33
50	Gold	6(15.24)	MC	C3EEG-5006M-ND	16.39	12.43
	Tin	6(15.24)	MC	C3EES-5006M-ND	15.09	11.44
	Gold	6(15.24)	GR	C3EEG-5006G-ND	15.05	11.41
	Tin	6(15.24)	GR	C3EES-5006G-ND	13.75	10.43
	Gold	18(45.72)	MC	C3EEG-5018M-ND	20.19	15.31
	Tin	18(45.72)	MC	C3EES-5018M-ND	18.89	14.32
	Gold	18(45.72)	GR	C3EEG-5018G-ND	16.17	12.26
	Tin	18(45.72)	GR	C3EES-5018G-ND	14.87	11.28
	Gold	36(91.44)	MC	C3EEG-5036M-ND	25.89	19.63
	Tin	36(91.44)	MC	C3EES-5036M-ND	24.59	18.65
	Gold	36(91.44)	GR	C3EEG-5036G-ND	17.85	13.54
	Tin	36(91.44)	GR	C3EES-5036G-ND	16.55	12.55

Socket Connector to PCB Connector

* MC = Multi-Color
GR = Gray

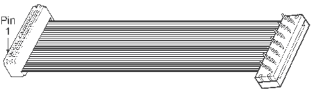

Socket connector and PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	10
10	Tin	6(15.24)	MC	C3APS-1006M-ND	3.19	2.43
	Tin	6(15.24)	GR	C3APS-1006G-ND	2.92	2.22
	Tin	18(45.72)	MC	C3APS-1018M-ND	4.00	3.03
	Tin	18(45.72)	GR	C3APS-1018G-ND	3.17	2.41
	Tin	36(91.44)	MC	C3APS-1036M-ND	5.20	3.95
	Tin	36(91.44)	GR	C3APS-1036G-ND	3.55	2.70
20	Tin	6(15.24)	MC	C3APS-2006M-ND	4.43	3.36
	Tin	6(15.24)	GR	C3APS-2006G-ND	3.96	3.01
	Tin	18(45.72)	MC	C3APS-2018M-ND	5.94	4.51
	Tin	18(45.72)	GR	C3APS-2018G-ND	4.53	3.44
	Tin	36(91.44)	MC	C3APS-2036M-ND	8.22	6.23
	Tin	36(91.44)	GR	C3APS-2036G-ND	5.39	4.09
26	Tin	6(15.24)	MC	C3APS-2606M-ND	5.54	4.20
	Tin	6(15.24)	GR	C3APS-2606G-ND	4.90	3.72
	Tin	18(45.72)	MC	C3APS-2618M-ND	7.51	5.69
	Tin	18(45.72)	GR	C3APS-2618G-ND	5.61	4.26
	Tin	36(91.44)	MC	C3APS-2636M-ND	10.46	7.93
	Tin	36(91.44)	GR	C3APS-2636G-ND	6.67	5.06
34	Tin	6(15.24)	MC	C3APS-3406M-ND	6.82	5.17
	Tin	6(15.24)	GR	C3APS-3406G-ND	5.91	4.49
	Tin	18(45.72)	MC	C3APS-3418M-ND	9.39	7.12
	Tin	18(45.72)	GR	C3APS-3418G-ND	6.67	5.06
	Tin	36(91.44)	MC	C3APS-3436M-ND	13.25	10.05
	Tin	36(91.44)	GR	C3APS-3436G-ND	7.82	5.93
40	Tin	6(15.24)	MC	C3APS-4006M-ND	7.95	6.03
	Tin	6(15.24)	GR	C3APS-4006G-ND	6.94	5.27
	Tin	18(45.72)	MC	C3APS-4018M-ND	11.03	8.37
	Tin	18(45.72)	GR	C3APS-4018G-ND	8.01	6.08
	Tin	36(91.44)	MC	C3APS-4036M-ND	15.65	11.87
	Tin	36(91.44)	GR	C3APS-4036G-ND	9.61	7.29
50	Tin	6(15.24)	MC	C3APS-5006M-ND	9.49	7.20
	Tin	6(15.24)	GR	C3APS-5006G-ND	8.15	6.18
	Tin	18(45.72)	MC	C3APS-5018M-ND	13.29	10.08
	Tin	18(45.72)	GR	C3APS-5018G-ND	9.27	7.03
	Tin	36(91.44)	MC	C3APS-5036M-ND	18.99	14.40
	Tin	36(91.44)	GR	C3APS-5036G-ND	10.95	8.31
60	Tin	6(15.24)	MC	C3APS-6006M-ND	11.27	8.55
	Tin	6(15.24)	GR	C3APS-6006G-ND	9.74	7.39
	Tin	18(45.72)	MC	C3APS-6018M-ND	15.85	12.02
	Tin	18(45.72)	GR	C3APS-6018G-ND	11.26	8.54
	Tin	36(91.44)	MC	C3APS-6036M-ND	22.72	17.23
	Tin	36(91.44)	GR	C3APS-6036G-ND	13.54	10.27

Also available in the following versions:
C3BP☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief.
C3CP☐-☐☐☐☐☐-ND – Socket Connector with Central Polarizing Key.
C3DP☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

Socket Connector to Card Edge Connector

* MC = Multi-Color,
GR = Gray

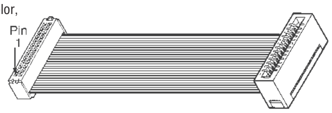

Socket connector and Card Edge connectors without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	10
10	Gold	6(15.24)	MC	C3AEG-1006M-ND	5.21	3.95
	Tin	6(15.24)	MC	C3AES-1006M-ND	4.44	3.37
	Gold	6(15.24)	GR	C3AEG-1006G-ND	4.93	3.74
	Tin	6(15.24)	GR	C3AES-1006G-ND	4.17	3.16
	Gold	18(45.72)	MC	C3AEG-1018M-ND	6.01	4.56
	Tin	18(45.72)	MC	C3AES-1018M-ND	5.25	3.98
	Gold	18(45.72)	GR	C3AEG-1018G-ND	5.18	3.93
	Tin	18(45.72)	GR	C3AES-1018G-ND	4.42	3.36
	Gold	36(91.44)	MC	C3AEG-1036M-ND	7.21	5.47
	Tin	36(91.44)	MC	C3AES-1036M-ND	6.45	4.89
	Gold	36(91.44)	GR	C3AEG-1036G-ND	5.56	4.22
	Tin	36(91.44)	GR	C3AES-1036G-ND	4.80	3.64
20	Gold	6(15.24)	MC	C3AEG-2006M-ND	7.21	5.47
	Tin	6(15.24)	MC	C3AES-2006M-ND	6.15	4.66
	Gold	6(15.24)	GR	C3AEG-2006G-ND	6.74	5.11
	Tin	6(15.24)	GR	C3AES-2006G-ND	5.68	4.31
	Gold	18(45.72)	MC	C3AEG-2018M-ND	8.73	6.62
	Tin	18(45.72)	MC	C3AES-2018M-ND	7.66	5.81
	Gold	18(45.72)	GR	C3AEG-2018G-ND	7.31	5.55
	Tin	18(45.72)	GR	C3AES-2018G-ND	6.25	4.74
	Gold	36(91.44)	MC	C3AEG-2036M-ND	11.00	8.34
	Tin	36(91.44)	MC	C3AES-2036M-ND	9.93	7.53
	Gold	36(91.44)	GR	C3AEG-2036G-ND	8.17	6.20
	Tin	36(91.44)	GR	C3AES-2036G-ND	7.11	5.39
26	Gold	6(15.24)	MC	C3AEG-2606M-ND	8.94	6.78
	Tin	6(15.24)	MC	C3AES-2606M-ND	7.42	5.63
	Gold	6(15.24)	GR	C3AEG-2606G-ND	8.31	6.30
	Tin	6(15.24)	GR	C3AES-2606G-ND	6.79	5.15
	Gold	18(45.72)	MC	C3AEG-2618M-ND	10.91	8.27
	Tin	18(45.72)	MC	C3AES-2618M-ND	9.39	7.12
	Gold	18(45.72)	GR	C3AEG-2618G-ND	9.01	6.84
	Tin	18(45.72)	GR	C3AES-2618G-ND	7.49	5.68
	Gold	36(91.44)	MC	C3AEG-2636M-ND	13.86	10.51
	Tin	36(91.44)	MC	C3AES-2636M-ND	12.34	9.36
	Gold	36(91.44)	GR	C3AEG-2636G-ND	10.07	7.64
	Tin	36(91.44)	GR	C3AES-2636G-ND	8.55	6.49
34	Gold	6(15.24)	MC	C3AEG-3406M-ND	11.20	8.50
	Tin	6(15.24)	MC	C3AES-3406M-ND	9.27	7.03
	Gold	6(15.24)	GR	C3AEG-3406G-ND	10.29	7.81
	Tin	6(15.24)	GR	C3AES-3406G-ND	8.36	6.34
	Gold	18(45.72)	MC	C3AEG-3418M-ND	13.77	10.45
	Tin	18(45.72)	MC	C3AES-3418M-ND	11.84	8.98
	Gold	18(45.72)	GR	C3AEG-3418G-ND	11.06	8.39
	Tin	18(45.72)	GR	C3AES-3418G-ND	9.12	6.92
	Gold	36(91.44)	MC	C3AEG-3436M-ND	17.64	13.37
	Tin	36(91.44)	MC	C3AES-3436M-ND	15.70	11.91
	Gold	36(91.44)	GR	C3AEG-3436G-ND	12.20	9.25
	Tin	36(91.44)	GR	C3AES-3436G-ND	10.27	7.79
40	Gold	6(15.24)	MC	C3AEG-4006M-ND	13.29	10.08
	Tin	6(15.24)	MC	C3AES-4006M-ND	10.64	8.07
	Gold	6(15.24)	GR	C3AEG-4006G-ND	12.28	9.31
	Tin	6(15.24)	GR	C3AES-4006G-ND	9.63	7.31
	Gold	18(45.72)	MC	C3AEG-4018M-ND	16.37	12.41
	Tin	18(45.72)	MC	C3AES-4018M-ND	13.72	10.41
	Gold	18(45.72)	GR	C3AEG-4018G-ND	13.34	10.12
	Tin	18(45.72)	GR	C3AES-4018G-ND	10.70	8.12
	Gold	36(91.44)	MC	C3AEG-4036M-ND	20.99	15.91
	Tin	36(91.44)	MC	C3AES-4036M-ND	18.34	13.91
	Gold	36(91.44)	GR	C3AEG-4036G-ND	14.94	11.33
	Tin	36(91.44)	GR	C3AES-4036G-ND	12.30	9.33
50	Gold	6(15.24)	MC	C3AEG-5006M-ND	15.32	11.62
	Tin	6(15.24)	MC	C3AES-5006M-ND	12.38	9.39
	Gold	6(15.24)	GR	C3AEG-5006G-ND	13.98	10.60
	Tin	6(15.24)	GR	C3AES-5006G-ND	11.04	8.37
	Gold	18(45.72)	MC	C3AEG-5018M-ND	19.12	14.50
	Tin	18(45.72)	MC	C3AES-5018M-ND	16.18	12.27
	Gold	18(45.72)	GR	C3AEG-5018G-ND	15.10	11.45
	Tin	18(45.72)	GR	C3AES-5018G-ND	12.16	9.22
	Gold	36(91.44)	MC	C3AEG-5036M-ND	24.82	18.82
	Tin	36(91.44)	MC	C3AES-5036M-ND	21.88	16.59
	Gold	36(91.44)	GR	C3AEG-5036G-ND	16.78	12.72
	Tin	36(91.44)	GR	C3AES-5036G-ND	13.84	10.49

Also available in the following versions:
C3BE☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief.
C3CE☐-☐☐☐☐☐-ND – Socket Connector with Central Polarizing Key.
C3DE☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector to Card Edge Connector

* MC = Multi-Color,
GR = Gray

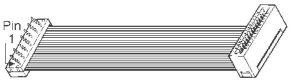

PCB and Card Edge connectors are without strain relief.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	10
10	Tin	6(15.24)	MC	C3PES-1006M-ND	4.47	3.39
	Tin	6(15.24)	GR	C3PES-1006G-ND	4.19	3.18
	Tin	18(45.72)	MC	C3PES-1018M-ND	5.27	4.00
	Tin	18(45.72)	GR	C3PES-1018G-ND	4.44	3.37
	Tin	36(91.44)	MC	C3PES-1036M-ND	6.47	4.91
	Tin	36(91.44)	GR	C3PES-1036G-ND	4.82	3.66
20	Tin	6(15.24)	MC	C3PES-2006M-ND	5.80	4.40
	Tin	6(15.24)	GR	C3PES-2006G-ND	5.33	4.04
	Tin	18(45.72)	MC	C3PES-2018M-ND	7.31	5.55
	Tin	18(45.72)	GR	C3PES-2018G-ND	5.90	4.48
	Tin	36(91.44)	MC	C3PES-2036M-ND	9.58	7.27
	Tin	36(91.44)	GR	C3PES-2036G-ND	6.76	5.13
26	Tin	6(15.24)	MC	C3PES-2606M-ND	7.18	5.45
	Tin	6(15.24)	GR	C3PES-2606G-ND	6.55	4.97
	Tin	18(45.72)	MC	C3PES-2618M-ND	9.15	6.94
	Tin	18(45.72)	GR	C3PES-2618G-ND	7.26	5.50
	Tin	36(91.44)	MC	C3PES-2636M-ND	12.11	9.18
	Tin	36(91.44)	GR	C3PES-2636G-ND	8.31	6.31
34	Tin	6(15.24)	MC	C3PES-3406M-ND	8.93	6.78
	Tin	6(15.24)	GR	C3PES-3406G-ND	8.03	6.09
	Tin	18(45.72)	MC	C3PES-3418M-ND	11.51	8.73
	Tin	18(45.72)	GR	C3PES-3418G-ND	8.79	6.67
	Tin	36(91.44)	MC	C3PES-3436M-ND	15.37	11.65
	Tin	36(91.44)	GR	C3PES-3436G-ND	9.93	7.53
40	Tin	6(15.24)	MC	C3PES-4006M-ND	10.59	8.03
	Tin	6(15.24)	GR	C3PES-4006G-ND	9.58	7.27
	Tin	18(45.72)	MC	C3PES-4018M-ND	13.67	10.36
	Tin	18(45.72)	GR	C3PES-4018G-ND	10.64	8.07
	Tin	36(91.44)	MC	C3PES-4036M-ND	18.29	13.87
	Tin	36(91.44)	GR	C3PES-4036G-ND	12.24	9.29
50	Tin	6(15.24)	MC	C3PES-5006M-ND	12.20	9.25
	Tin	6(15.24)	GR	C3PES-5006G-ND	10.86	8.24
	Tin	18(45.72)	MC	C3PES-5018M-ND	16.00	12.14
	Tin	18(45.72)	GR	C3PES-5018G-ND	11.98	9.09
	Tin	36(91.44)	MC	C3PES-5036M-ND	21.70	16.46
	Tin	36(91.44)	GR	C3PES-5036G-ND	13.66	10.36

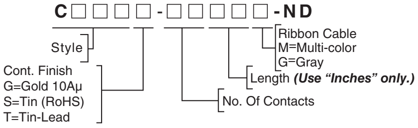

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Protected Headers

Straight-Lead

No. of Pins	Dim. A Inch (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

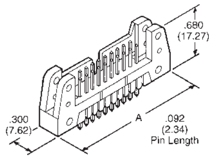

Lock Ejector Hooks, two required per connector, sold separately

Right-Angle

No. of Pins	Dim. A Inch (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

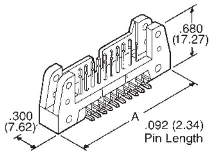

Lock Ejector Hooks, two required per connector, sold separately

Straight-Lead Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately

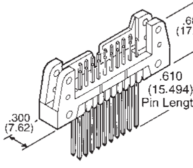

Right-Angle Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately

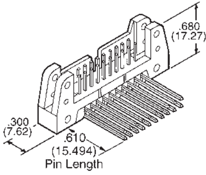

SPECIFICATIONS:

• **Contacts:** Phosphor bronze, standard • **Contact Plating:** 10μ inch gold (in mating area) over 50μ inch nickel • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** greater than 500VDC at sea level • **Insulation Resistance:** greater than 5 x $10^9 \Omega$ • U.S. Defense Department Mil-C-83503/20, 21, approved

No. of Cont.	Description	Digi-Key Part No.	Price Each 1	10	25	50
Protected Headers - Gold Finish						
10	Straight-Lead	CHS10G-ND	1.65	1.38	1.27	1.15
	Right-Angle	CHR10G-ND	1.86	1.55	1.43	1.29
	Straight-Lead WW	CHW10G-ND	2.50	2.08	1.93	1.74
	Right-Angle WW	CHA10G-ND	2.50	2.08	1.93	1.74
14	Straight-Lead	CHS14G-ND	1.88	1.56	1.45	1.30
	Right-Angle	CHR14G-ND	2.06	1.71	1.59	1.43
	Straight-Lead WW	CHW14G-ND	3.17	2.64	2.44	2.20
	Right-Angle WW	CHA14G-ND	3.17	2.64	2.44	2.20
16	Straight-Lead	CHS16G-ND	1.99	1.66	1.54	1.38
	Right-Angle	CHR16G-ND	2.17	1.81	1.67	1.51
	Straight-Lead WW	CHW16G-ND	3.19	2.64	2.48	2.20
	Right-Angle WW	CHA16G-ND	3.19	2.64	2.48	2.20
20	Straight-Lead	CHS20G-ND	2.09	1.74	1.61	1.45
	Right-Angle	CHR20G-ND	2.25	1.87	1.73	1.56
	Straight-Lead WW	CHW20G-ND	3.31	2.74	2.57	2.29
	Right-Angle WW	CHA20G-ND	3.31	2.74	2.57	2.29
26	Straight-Lead	CHS26G-ND	2.24	1.86	1.73	1.56
	Right-Angle	CHR26G-ND	2.37	1.98	1.83	1.65
	Straight-Lead WW	CHW26G-ND	3.99	3.30	3.10	2.75
	Right-Angle WW	CHA26G-ND	3.99	3.30	3.10	2.75
34	Straight-Lead	CHS34G-ND	2.71	2.26	2.09	1.88
	Right-Angle	CHR34G-ND	2.81	2.34	2.17	1.95
	Straight-Lead WW	CHW34G-ND	4.78	3.96	3.72	3.30
	Right-Angle WW	CHA34G-ND	4.78	3.96	3.72	3.30
40	Straight-Lead	CHS40G-ND	3.08	2.57	2.38	2.14
	Right-Angle	CHR40G-ND	3.16	2.63	2.43	2.19
	Straight-Lead WW	CHW40G-ND	5.82	4.82	4.52	4.02
	Right-Angle WW	CHA40G-ND	5.82	4.82	4.52	4.02
50	Straight-Lead	CHS50G-ND	3.35	2.78	2.60	2.31
	Right-Angle	CHR50G-ND	3.38	2.80	2.62	2.33
	Straight-Lead WW	CHW50G-ND	6.54	5.41	5.08	4.51
	Right-Angle WW	CHA50G-ND	6.54	5.41	5.08	4.51
60	Straight-Lead ST† (Shrouded)	CHB60G-ND	5.09	4.22	3.95	3.51
	Straight-Lead WW† (Shrouded)	CHC60G-ND	6.31	5.23	4.90	4.36
	Right-Angle ST† (Shrouded)	CHD60G-ND	4.79	3.96	3.72	3.30
	Right-Angle WW† (Shrouded)	CHE60G-ND	6.49	5.38	5.04	4.48
Lock Ejector Hooks - Short (2 required per connector)		CLKS01-ND	.86/2			
Lock Ejector Hooks - Long with strain relief; (2 required per connector)		CLKS02-ND	.86/2			

† Lock ejector hooks included

Tyco Electronics

Authorized Distributor

AMP Protected Headers

SPECIFICATIONS:

• **Material and Finish:** Housing and Latches — Black thermo-plastic, 94V-0 rated • **Contact Finish:** 15μ or 30μ gold on post/pin mating end, 100μ" tin on termination end, with entire contact underplated .000050 nickel • Connectors recognized under component program of Underwriters Laboratories Inc. File No. E28476 • Connectors certified by Canadian Standards Association File No. LR16455 • .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length

Straight-Lead

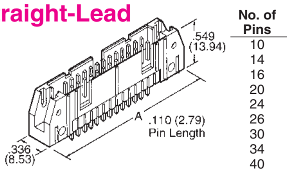

Lock Ejector Hooks, two required per connector, sold separately

No. of Pins	Dim. A Inch (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header Without Latches						
10	15μ"	.110 (2.79)	AHS10H-ND	.93	.84	5102153-1
	30μ"	.110 (2.79)	AHS10L-ND	.93	.84	5102154-1
	15μ"	.155 (3.94)	AHJ10H-ND	.95	.86	5102155-1
14	15μ"	.110 (2.79)	AHS14H-ND	1.21	1.10	5102153-2
	30μ"	.110 (2.79)	AHS14L-ND	1.21	1.10	5102154-2
16	15μ"	.110 (2.79)	AHS16H-ND	1.39	1.25	5102153-3
	30μ"	.110 (2.79)	AHS16L-ND	1.39	1.25	5102154-3
	15μ"	.155 (3.94)	AHJ16H-ND	1.50	1.35	5102155-3
	30μ"	.155 (3.94)	AHJ16L-ND	2.23	1.85	5102156-3
20	15μ"	.110 (2.79)	AHS20H-ND	1.72	1.56	5102153-4
	30μ"	.110 (2.79)	AHS20L-ND	1.72	1.56	5102154-4
	30μ"	.155 (3.94)	AHJ20L-ND	1.98	1.79	5102156-4
24	15μ"	.110 (2.79)	AHS24H-ND	2.01	1.81	5102153-5
	30μ"	.110 (2.79)	AHS24L-ND	2.01	1.81	5102154-5
	30μ"	.155 (3.94)	AHJ24L-ND	2.30	2.07	5102156-5
26	15μ"	.110 (2.79)	AHS26H-ND	2.18	1.97	5102153-6
	30μ"	.110 (2.79)	AHS26L-ND	2.18	1.97	5102154-6
	15μ"	.155 (3.94)	AHJ26H-ND	2.50	2.25	5102155-6
	30μ"	.155 (3.94)	AHJ26L-ND	2.37	2.13	5102156-6
30	15μ"	.110 (2.79)	AHS30H-ND	2.52	2.27	5102153-7
	30μ"	.110 (2.79)	AHS30L-ND	2.52	2.27	5102154-7
34	15μ"	.110 (2.79)	AHS34H-ND	3.18	2.87	5102153-8
	30μ"	.110 (2.79)	AHS34L-ND	3.18	2.87	5102154-8
	15μ"	.155 (3.94)	AHJ34H-ND	2.68	2.42	5102155-8
	30μ"	.155 (3.94)	AHJ34L-ND	2.85	2.57	5102156-8
40	15μ"	.110 (2.79)	AHS40H-ND	3.21	2.89	5102153-9
	30μ"	.110 (2.79)	AHS40L-ND	3.21	2.89	5102154-9
	30μ"	.155 (3.94)	AHJ40L-ND	3.27	2.95	5102156-9
50	15μ"	.110 (2.79)	AHS50H-ND	4.41	3.97	1-5102153-0
	30μ"	.110 (2.79)	AHS50L-ND	4.41	3.97	1-5102154-0
	15μ"	.155 (3.94)	AHJ50H-ND	4.17	3.76	1-5102155-0
	30μ"	.155 (3.94)	AHJ50L-ND	3.96	3.57	1-5102156-0
60	30μ"	.110 (2.79)	AHS60L-ND	4.65	4.19	1-5102154-1
	30μ"	.155 (3.94)	AHJ60L-ND	4.50	4.05	1-5102156-1
64	15μ"	.110 (2.79)	AHS64H-ND	4.98	4.49	1-5102153-2
	30μ"	.110 (2.79)	AHS64L-ND	4.98	4.49	1-5102154-2
	15μ"	.155 (3.94)	AHJ64H-ND	4.89	4.41	1-5102155-2
	30μ"	.155 (3.94)	AHJ64L-ND	5.07	4.57	1-5102156-2
Pin Header with ACTION PIN Contacts						
10	30μ"	.174 (4.42)	AHA10B-ND	1.88	1.69	1658694-6
14	30μ"	.174 (4.42)	AHA14B-ND	2.57	2.31	1658694-7
16	30μ"	.174 (4.42)	AHA16B-ND	2.86	2.58	1658694-8
20	30μ"	.174 (4.42)	AHA20B-ND	3.36	3.03	1658694-1
24	30μ"	.174 (4.42)	AHA24B-ND	4.05	3.65	1658694-9
26	30μ"	.174 (4.42)	AHA26B-ND	4.25	3.83	1658694-2
30	30μ"	.174 (4.42)	AHA30B-ND	4.79	4.31	1-1658694-0
34	30μ"	.174 (4.42)	AHA34B-ND	5.22	4.70	1-1658694-1
40	30μ"	.174 (4.42)	AHA40B-ND	5.79	5.22	1-1658694-3
64	30μ"	.174 (4.42)	AHA64B-ND	8.76	7.89	1658694-5
Pin Header with Short Latches						
10	15μ"	.110 (2.79)	AHE10H-ND	1.73	1.56	5499910-1
	30μ"	.110 (2.79)	AHE10B-ND	1.83	1.65	5499160-1
	30μ"	.155 (3.94)	AHG10B-ND	2.10	1.90	5499374-1
14	15μ"	.110 (2.79)	AHE14H-ND	2.37	2.14	5499910-2
	30μ"	.155 (3.94)	AHG14B-ND	3.47	3.13	5499374-2
16	15μ"	.110 (2.79)	AHE16H-ND	2.62	2.36	5499910-3
	30μ"	.110 (2.79)	AHE16B-ND	2.81	2.54	5499160-3
20	15μ"	.110 (2.79)	AHE20H-ND	3.21	2.89	5499910-4
	30μ"	.110 (2.79)	AHE20B-ND	3.93	3.54	5499160-4
	30μ"	.155 (3.94)	AHG20B-ND	4.43	3.99	5499374-4
24	15μ"	.110 (2.79)	AHE24H-ND	3.70	3.34	5499910-5
	30μ"	.155 (3.94)	AHG24B-ND	4.05	3.65	5499374-5
26	15μ"	.110 (2.79)	AHE26H-ND	3.95	3.56	5499910-6
	30μ"	.110 (2.79)	AHE26B-ND	4.25	3.83	5499160-6
	30μ"	.155 (3.94)	AHG26B-ND	4.88	4.40	5499374-6
30	15μ"	.110 (2.79)	AHE30H-ND	5.11	4.60	5499910-7
34	15μ"	.110 (2.79)	AHE34H-ND	4.89	4.40	5499910-8
	30μ"	.110 (2.79)	AHE34B-ND	5.28	4.76	5499160-8
	30μ"	.155 (3.94)	AHG34B-ND	6.06	5.46	5499374-8
40	15μ"	.110 (2.79)	AHE40H-ND	5.61	5.05	5499910-9
	30μ"	.110 (2.79)	AHE40B-ND	6.12	5.51	5499160-9
	30μ"	.155 (3.94)	AHG40B-ND	6.90	6.21	5499374-9
50	15μ"	.110 (2.79)	AHE50H-ND	6.81	6.13	1-5499910-0
	30μ"	.110 (2.79)	AHE50B-ND	7.41	6.67	1-5499160-0
	30μ"	.155 (3.94)	AHG50B-ND	7.41	6.67	1-5499374-0
Pin Header with Long Latches						
10	15μ"	.110 (2.79)	AHK10H-ND	1.47	1.33	5499922-1
	30μ"	.110 (2.79)	AHK10B-ND	1.98	1.79	5499206-1
	15μ"	.155 (3.94)	AHL10H-ND	2.47	2.23	5499923-1
	30μ"	.155 (3.94)	AHL10B-ND	2.57	2.32	5102321-1
14	15μ"	.110 (2.79)	AHK14H-ND	2.30	2.07	5499922-2
	30μ"	.110 (2.79)	AHK14B-ND	2.91	2.62	5499206-2
	30μ"	.155 (3.94)	AHL14B-ND	2.59	2.34	5102321-2
16	15μ"	.110 (2.79)	AHK16H-ND	2.45	2.21	5499922-3
	30μ"	.110 (2.79)	AHK16B-ND	3.24	2.92	5499206-3
	15μ"	.155 (3.94)	AHL16H-ND	2.25	2.03	5499923-3
	30μ"	.155 (3.94)	AHL16B-ND	3.15	2.84	5102321-3
20	15μ"	.110 (2.79)	AHK20H-ND	3.06	2.76	5499922-4
	30μ"	.110 (2.79)	AHK20B-ND	3.93	3.54	5499206-4
	15μ"	.155 (3.94)	AHL20H-ND	2.73	2.46	5499923-4
	30μ"	.155 (3.94)	AHL20B-ND	3.42	3.08	5102321-4
24	15μ"	.110 (2.79)	AHK24H-ND	3.18	2.87	5499922-5
	30μ"	.110 (2.79)	AHK24B-ND	4.65	4.19	5499206-5
	30μ"	.155 (3.94)	AHL24B-ND	4.59	3.82	5102321-5
26	15μ"	.110 (2.79)	AHK26H-ND	3.36	3.03	5499922-6
	30μ"	.110 (2.79)	AHK26B-ND	4.92	4.43	5499206-6
	15μ"	.155 (3.94)	AHL26H-ND	3.90	3.51	5499923-6
	30μ"	.155 (3.94)	AHL26B-ND	4.23	3.81	5102321-6
30	30μ"	.110 (2.79)	AHK30B-ND	5.52	4.97	5499206-7
	15μ"	.155 (3.94)	AHL30H-ND	3.84	3.46	5499923-7
	30μ"	.155 (3.94)	AHL30B-ND	4.77	4.30	5102321-7
34	15μ"	.110 (2.79)	AHK34H-ND	4.59	4.14	5499922-8
	30μ"	.110 (2.79)	AHK34B-ND	6.06	5.46	5499206-8
	15μ"	.155 (3.94)	AHL34H-ND	4.86	4.38	5499923-8
	30μ"	.155 (3.94)	AHL34B-ND	5.28	4.76	5102321-8
40	15μ"	.110 (2.79)	AHK40H-ND	4.77	4.30	5499922-9
	30μ"	.110 (2.79)	AHK40B-ND	7.02	6.32	5499206-9
	15μ"	.155 (3.94)	AHL40H-ND	4.86	4.38	5499923-9
	30μ"	.155 (3.94)	AHL40B-ND	6.12	5.51	5102321-9
50	15μ"	.110 (2.79)	AHK50H-ND	5.79	5.22	1-5499922-0
	30μ"	.110 (2.79)	AHK50B-ND	7.35	6.62	1-5499206-0
	15μ"	.155 (3.94)	AHL50H-ND	5.88	5.30	1-5499923-0
	30μ"	.155 (3.94)	AHL50B-ND	7.41	6.67	1-5102321-0
60	15μ"	.110 (2.79)	AHK60H-ND	6.78	6.11	1-5499922-1
	30μ"	.110 (2.79)	AHK60B-ND	9.99	9.00	1-5499206-1
	15μ"	.155 (3.94)	AHL60H-ND	8.91	8.02	1-5499923-1
	30μ"	.155 (3.94)	AHL60B-ND	8.16	7.35	1-5102321-1
64	15μ"	.110 (2.79)	AHK64H-ND	7.02	6.32	1-5499922-2
	30μ"	.110 (2.79)	AHK64B-ND	11.40	10.26	1-5499206-2
	15μ"	.155 (3.94)	AHL64H-ND	9.24	8.32	1-5499923-2
	30μ"	.155 (3.94)	AHL64B-ND	9.00	8.10	1-5102321-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	.53/2		102312-1
Long w/out Push Tabs			ALLN01-ND	.53/2		102320-1
Pin Header Mounting Kit †						
Bolt and Nut, 2 each/kit			A26333-ND	1.46	—	102198-1

† 2-56 bolts and nuts may be used to mount pin headers with and without latches. If latches are to be used, the bolts must be positioned in the pin header before the latches are installed.

(Continued)

AMP Protected Headers *(Cont.)*

Right-Angle

No. of Pins	Dim. A Inch (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

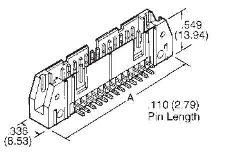

Lock Ejector Hooks, two required per connector, sold separately.

No. of Con-tacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Right-Angle Pin Headers without Latches						
10	15µ"	.110 (2.79)	AHR10H-ND	.95	.86	5102159-1
	30µ"	.110 (2.79)	AHR10L-ND	1.38	1.25	5102160-1
14	15µ"	.110 (2.79)	AHR14H-ND	1.22	1.11	5102159-2
	15µ"	.155 (3.94)	AHZ14H-ND	2.44	2.20	5102161-2
16	15µ"	.110 (2.79)	AHR16H-ND	1.50	1.35	5102159-3
	30µ"	.110 (2.79)	AHR16L-ND	2.32	2.09	5102160-3
20	15µ"	.110 (2.79)	AHR20H-ND	1.77	1.60	5102159-4
	30µ"	.110 (2.79)	AHR20L-ND	2.47	2.23	5102160-4
	15µ"	.155 (3.94)	AHZ20H-ND	3.29	2.97	5102161-4
24	30µ"	.110 (2.79)	AHR24L-ND	2.86	2.58	5102160-5
	15µ"	.155 (3.94)	AHZ24H-ND	3.41	3.07	5102161-5
26	15µ"	.110 (2.79)	AHR26H-ND	2.17	1.96	5102159-6
	30µ"	.110 (2.79)	AHR26L-ND	2.96	2.67	5102160-6
30	15µ"	.110 (2.79)	AHR30H-ND	2.45	2.21	5102159-7
	15µ"	.155 (3.94)	AHZ30H-ND	4.05	3.65	5102161-7
	30µ"	.155 (3.94)	AHZ30L-ND	4.14	3.73	5102162-7
34	15µ"	.110 (2.79)	AHR34H-ND	2.68	2.42	5102159-8
	30µ"	.110 (2.79)	AHR34L-ND	3.55	3.20	5102160-8
	15µ"	.155 (3.94)	AHZ34H-ND	4.49	4.05	5102161-8
	30µ"	.155 (3.94)	AHZ34L-ND	4.60	4.14	5102162-8
40	15µ"	.110 (2.79)	AHR40H-ND	3.09	2.79	5102159-9
	30µ"	.110 (2.79)	AHR40L-ND	4.10	3.69	5102160-9
50	15µ"	.110 (2.79)	AHR50H-ND	3.63	3.27	1-5102159-0
	30µ"	.110 (2.79)	AHR50L-ND	4.95	4.46	1-5102160-0
	30µ"	.155 (3.94)	AHZ50L-ND	5.52	4.97	1-5102162-0
60	15µ"	.110 (2.79)	AHR60H-ND	4.32	3.89	1-5102159-1
	30µ"	.110 (2.79)	AHR60L-ND	5.52	4.97	1-5102160-1
	30µ"	.155 (3.94)	AHZ60L-ND	7.35	6.62	1-5102162-1
64	15µ"	.110 (2.79)	AHR64H-ND	4.83	4.35	1-5102159-2
	30µ"	.110 (2.79)	AHR64L-ND	5.64	5.08	1-5102160-2
	30µ"	.155 (3.94)	AHZ64L-ND	6.63	5.97	1-5102162-2
Headers with Short Latches						
10	15µ"	.110 (2.79)	AHB10H-ND	1.83	1.65	5499913-1
	30µ"	.110 (2.79)	AHB10L-ND	2.77	2.50	5499345-1
14	15µ"	.110 (2.79)	AHB14H-ND	2.52	2.27	5499913-2
16	15µ"	.110 (2.79)	AHB16H-ND	2.81	2.54	5499913-3
20	15µ"	.110 (2.79)	AHB20H-ND	3.75	3.38	5499913-4
24	15µ"	.110 (2.79)	AHB24H-ND	4.57	4.12	5499913-5
	30µ"	.110 (2.79)	AHB24L-ND	4.89	4.40	5499345-5
26	15µ"	.110 (2.79)	AHB26H-ND	4.25	3.83	5499913-6
30	15µ"	.110 (2.79)	AHB30H-ND	6.22	5.61	5499913-7
34	15µ"	.110 (2.79)	AHB34H-ND	5.28	4.76	5499913-8
40	15µ"	.110 (2.79)	AHB40H-ND	3.12	2.81	5499913-9
	30µ"	.110 (2.79)	AHB40L-ND	6.69	6.03	5499345-9
50	30µ"	.110 (2.79)	AHB50L-ND	8.13	7.32	1-5499345-0
60	15µ"	.110 (2.79)	AHB60H-ND	9.81	8.83	1-5499913-1
Headers with Long Latches						
10	15µ"	.110 (2.79)	AHC10H-ND	1.83	1.65	5499786-1
	30µ"	.110 (2.79)	AHC10L-ND	2.02	1.83	5499141-1
14	15µ"	.110 (2.79)	AHC14H-ND	2.52	2.27	5499786-2
	30µ"	.110 (2.79)	AHC14L-ND	2.76	2.49	5499141-2
16	30µ"	.110 (2.79)	AHC16L-ND	3.06	2.76	5499141-3
	30µ"	.155 (3.94)	AHT16L-ND	3.36	3.03	5102322-3
20	15µ"	.110 (2.79)	AHC20H-ND	3.41	3.07	5499786-4
	30µ"	.110 (2.79)	AHC20L-ND	4.31	3.89	5499141-4
	30µ"	.155 (3.94)	AHT20L-ND	4.56	4.11	5102322-4
24	15µ"	.110 (2.79)	AHC24H-ND	4.66	4.19	5499786-5
26	15µ"	.110 (2.79)	AHC26H-ND	4.25	3.83	5499786-6
	30µ"	.110 (2.79)	AHC26L-ND	4.69	4.23	5499141-6
	30µ"	.155 (3.94)	AHT26L-ND	5.94	5.35	5102322-6
30	30µ"	.110 (2.79)	AHC30L-ND	7.83	7.05	5499141-7
34	15µ"	.110 (2.79)	AHC34H-ND	5.28	4.76	5499786-8
	30µ"	.110 (2.79)	AHC34L-ND	5.79	5.22	5499141-8
	30µ"	.155 (3.94)	AHT34L-ND	6.39	5.76	5102322-8
40	15µ"	.110 (2.79)	AHC40H-ND	6.12	5.51	5499786-9
	30µ"	.110 (2.79)	AHC40L-ND	6.69	6.03	5499141-9
50	15µ"	.110 (2.79)	AHC50H-ND	7.41	6.67	1-5499786-0
	30µ"	.110 (2.79)	AHC50L-ND	8.13	7.32	1-5499141-0
60	15µ"	.110 (2.79)	AHC60H-ND	8.49	7.65	1-5499786-1
	30µ"	.110 (2.79)	AHC60L-ND	9.51	8.56	1-5499141-1
64	15µ"	.110 (2.79)	AHC64H-ND	9.00	8.10	1-5499786-2
	30µ"	.110 (2.79)	AHC64L-ND	11.40	10.26	1-5499141-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	.53/2		102312-1
Long w/o Push Tabs			ALLN01-ND	.53/2		102320-1

AMP Low Profile - 4 Sided Protected Headers .100 x .100 Centers

Specifications:

- .025" (.64mm) Square Posts, .240" (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, 100µ-200µ bright tin-lead on termination end, with entire contact underplated 50µ nickel.

Straight-Lead

No. of Pins	Dim. A Inch (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
24	1.40 (35.56)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

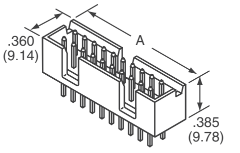

No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post					
40	15µ"	A26279-ND	1.94	1.40	103308-8
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post — RoHS Compliant					
10	15µ"	A33159-ND	.84	.61	5103308-1
	30µ"	A33160-ND	1.00	.72	5103309-1
	30µ"	A97470-ND†	3.14	2.25	2-1761603-3
14	15µ"	A33161-ND	1.10	.79	5103308-2
	30µ"	A33162-ND	1.41	1.01	5103309-2
	30µ"	A97471-ND†	3.62	2.60	2-1761603-5
16	15µ"	A33163-ND	1.41	1.01	5103308-3
	30µ"	A33164-ND	1.58	1.14	5103309-3
	30µ"	A97472-ND†	3.86	2.77	2-1761603-6
20	15µ"	A33165-ND	1.47	1.06	5103308-5
	30µ"	A33166-ND	1.78	1.28	5103309-5
	30µ"	A97473-ND†	4.30	3.09	2-1761603-7
26	15µ"	A33167-ND	1.73	1.25	5103308-6
	30µ"	A97474-ND†	4.98	3.57	2-1761603-9
	30µ"	A97494-ND	2.10	1.51	5103309-6
34	15µ"	A33168-ND	2.25	1.62	5103308-7
	30µ"	A33169-ND	2.41	1.73	5103309-7
	30µ"	A97475-ND†	5.86	4.21	3-1761603-1
40	15µ"	A33170-ND	1.82	1.31	5103308-8
	30µ"	A33171-ND	3.36	2.41	5103309-8
	30µ"	A97476-ND†	6.55	4.70	3-1761603-3
50	15µ"	A33172-ND	2.52	1.81	1-5103308-0
	30µ"	A33173-ND	3.20	2.30	1-5103309-0
	30µ"	A97477-ND†	7.87	5.65	3-1761603-5
60	15µ"	A33174-ND	4.98	3.57	1-5103308-2
Shrouded with .150" (3.81mm) End Dimension High Temperature Housing with Board Retention Feature‡ — RoHS Compliant					
10	15µ"	A33175-ND	1.74	1.25	5104338-1
14	15µ"	A97490-ND	1.61	1.16	5104338-2
16	15µ"	A97491-ND	2.39	1.72	5104338-3
20	15µ"	A33176-ND	2.03	1.46	5104338-4
24	15µ"	A97492-ND	3.15	2.26	5104338-5
34	15µ"	A33177-ND	4.08	2.93	5104338-7
40	15µ"	A33178-ND	2.97	2.13	5104338-8
50	15µ"	A97493-ND	3.69	2.65	5104338-9

† Blue ‡ Gray

Right-Angle

No. of Pins	Dim. A Inch (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
44	2.50 (63.50)
50	2.80 (71.12)

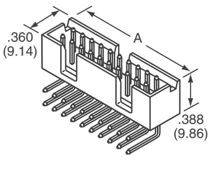

No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Right-Angle Post — RoHS Compliant					
10	15µ"	A33179-ND	1.10	.79	5103310-1
	30µ"	A33180-ND	1.35	.97	5103311-1
	30µ"	A97478-ND†	5.18	3.72	2-1761605-3
14	15µ"	A33181-ND	1.33	.96	5103310-2
	30µ"	A97486-ND	4.29	3.08	5103311-2
	30µ"	A97479-ND†	5.85	4.20	2-1761605-5
16	15µ"	A33182-ND	1.56	1.12	5103310-3
	30µ"	A33183-ND	1.84	1.32	5103311-3
	30µ"	A97480-ND†	6.16	4.42	2-1761605-6
20	15µ"	A33184-ND	1.76	1.27	5103310-5
	30µ"	A97487-ND	2.67	1.92	5103311-5
	30µ"	A97481-ND†	6.77	4.85	2-1761605-7
26	15µ"	A33185-ND	2.16	1.55	5103310-6
	30µ"	A97488-ND	3.37	2.42	5103311-6
	30µ"	A97482-ND†	4.08	2.93	2-1761605-9
34	15µ"	A33186-ND	2.70	1.94	5103310-7
	30µ"	A97489-ND	3.27	2.35	5103311-7
	30µ"	A97483-ND†	9.07	6.51	3-1761605-1
40	15µ"	A33187-ND	3.06	2.20	5103310-8
	30µ"	A33188-ND	3.42	2.46	5103311-8
	30µ"	A97484-ND†	9.64	6.91	3-1761605-3
44	30µ"	A98553-ND	3.87	2.78	5103311-9
50	15µ"	A33189-ND	3.60	2.58	1-5103310-0
	30µ"	A97485-ND†	12.98	9.31	3-1761605-5

† Blue

Right-Angle with Latches

No. of Pins	Dim. A Inch (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)

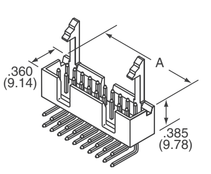

No. of Con-tacts	Con-tact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post						
26	30µ"	.585 (14.9)	A26306-ND	5.88	4.22	104130-5
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post — RoHS Compliant						
10	30µ"	.585 (14.9)	A31176-ND	3.86	2.77	1761607-3
	30µ"	.435 (11.0)	A31192-ND	3.93	2.82	1761609-3
14	30µ"	.585 (14.9)	A31177-ND	4.30	3.08	1761607-5
16	30µ"	.585 (14.9)	A31178-ND	4.53	3.25	1761607-6
20	30µ"	.585 (14.9)	A31179-ND	5.04	3.62	1761607-7
26	30µ"	.585 (14.9)	A31180-ND	5.72	4.11	1761607-9
	30µ"	.435 (11.0)	A31193-ND	5.83	4.19	1761609-9
34	30µ"	.585 (14.9)	A31181-ND	6.62	4.75	1-1761607-1
40	30µ"	.585 (14.9)	A33190-ND	7.38	5.30	1-1761607-3
	30µ"	.435 (11.0)	A31194-ND	7.66	5.50	1-1761609-3
50	30µ"	.585 (14.9)	A31182-ND	8.69	6.23	1-1761607-5
	30µ"	.435 (11.0)	A31195-ND	8.42	6.04	1-1761609-5

Straight-Lead with Latches

No. of Pins	Dim. A Inch (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

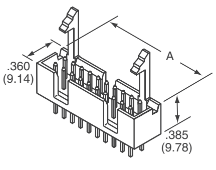

No. of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post						
20	30µ"	.435 (11.0)	A26320-ND	4.95	3.55	104313-4
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post — RoHS Compliant						
10	30µ"	.585 (14.9)	A31167-ND	3.74	2.69	1761606-3
	30µ"	.435 (11.0)	A31183-ND	3.81	2.74	1761608-3
14	30µ"	.585 (14.9)	A31168-ND	4.13	2.97	1761606-5
	30µ"	.435 (11.0)	A31184-ND	4.21	3.02	1761608-5
16	30µ"	.585 (14.9)	A31169-ND	4.34	3.12	1761606-6
	30µ"	.435 (11.0)	A31185-ND	4.42	3.18	1761608-6
20	30µ"	.585 (14.9)	A31170-ND	4.79	3.44	1761606-7
	30µ"	.435 (11.0)	A31186-ND	4.88	3.50	1761608-7
26	30µ"	.585 (14.9)	A31171-ND	5.42	3.89	1761606-9
	30µ"	.435 (11.0)	A31187-ND	5.52	3.96	1761608-9
34	30µ"	.585 (14.9)	A31172-ND	6.23	4.47	1-1761606-1
	30µ"	.435 (11.0)	A31188-ND	6.35	4.55	1-1761608-1
40	30µ"	.585 (14.9)	A31173-ND	7.05	5.06	1-1761606-3
	30µ"	.435 (11.0)	A31189-ND	7.19	5.16	1-1761608-3
50	30µ"	.585 (14.9)	A31174-ND	8.10	5.81	1-1761606-5
	30µ"	.435 (11.0)	A31190-ND	8.26	5.92	1-1761608-5
60	30µ"	.585 (14.9)	A31175-ND	9.15	6.56	1-1761606-6
	30µ"	.435 (11.0)	A31191-ND	9.33	6.69	1-1761608-6

3M D-Subminiature Connectors

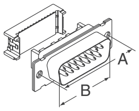
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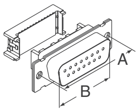
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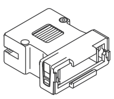
Backshell

Wire Accommodation: 26 and 28AWG solid or stranded
Order strain reliefs separately.

Physical Specifications:
- Contact Material: Beryllium copper plating
- Underplate: 50μ" nickel, QQ-N-290, Class 2
- Wiping Area: 30μ" gold, MIL-G-45204, Type II, Grade C
- Shell Material: Steel
- Plating: Tin
- Strain Relief Material: Stainless steel, .016" (.41mm) thick
- Marking: 3M logo and contact position number

Electrical Specifications:
- Current Rating: 1A
- Insulation Resistance: >1x10⁹Ω @ 500VDC
- Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications:
- Temperature Rating: -55°C ~ 105°C
- UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dimensions – Inch (mm) A	Dimensions – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Plugs with flange, thru-hole style, Male						
9	.98 (24.89)	.67 (17.02)	MMR09K-ND	7.78	58.99	8209-6000
15	1.31 (33.27)	1.00 (25.40)	MMR15K-ND	8.84	66.98	8215-6000
25	1.85 (46.99)	1.54 (39.12)	MMR25K-ND	10.01	75.91	8225-6000
37	2.50 (63.50)	2.18 (55.37)	MMR37K-ND	12.96	98.23	8237-6000
Plugs with 4-40 threaded insert, Male						
9	.98 (24.89)	.67 (17.02)	MML09K-ND	8.06	61.10	8209-6003
15	1.31 (33.27)	1.00 (25.40)	MML15K-ND	10.57	80.14	8215-6003
25	1.85 (46.99)	1.54 (39.12)	MML25K-ND	11.41	86.48	8225-6003
37	2.50 (63.50)	2.18 (55.37)	MML37K-ND	14.17	107.40	8237-6003
50	2.40 (60.96)	2.074 (52.68)	MML50K-ND	31.06	235.47	8250-6005
Receptacles with flange, thru-hole style, Female						
9	.98 (24.89)	.67 (17.02)	MFR09K-ND	6.63	50.29	8309-6000
15	1.31 (33.27)	.97 (24.64)	MFR15K-ND	7.60	57.58	8315-6000
25	1.85 (46.99)	1.51 (38.35)	MFR25K-ND	10.20	77.32	8325-6000
37	2.50 (63.50)	2.16 (54.86)	MFR37K-ND	13.14	99.64	8337-6000
Receptacles with 4-40 threaded insert, Female						
9	.98 (24.89)	.67 (17.02)	MFL09K-ND	8.25	62.51	8309-6003
15	1.31 (33.27)	.97 (24.64)	MFL15K-ND	10.91	82.72	8315-6003
25	1.85 (46.99)	1.51 (38.35)	MFL25K-ND	11.56	87.66	8325-6003
37	2.50 (63.50)	2.16 (54.86)	MFL37K-ND	14.17	107.40	8337-6003
50	2.40 (60.96)	2.068 (52.53)	MFL50K-ND	31.06	235.47	8350-6005
Backshells						
9	—	—	MDBF09-ND	4.06	34.13	3485-2100F
15	—	—	MDBF15-ND	4.31	36.23	3485-2200F
25	—	—	MDBF25-ND	4.31	36.23	3485-2300F
37	—	—	MDBF37-ND	5.03	42.35	3485-2400F
50	—	—	MDBF50-ND	3.99	33.60	3485-2500F
Strain Relief						
9	—	—	MDSR09-ND	.43	3.29	3448-8D09A
15	—	—	MDSR15-ND	1.30	9.87	3448-8D15A
25	—	—	MDSR25-ND	.65	4.94	3448-8D25A
37	—	—	MDSR37-ND	.74	5.64	3448-8D37A
50	—	—	MDSR50-ND	1.24	9.40	3448-8D50A
Tooling						
Bench Press Assembly Tool			3M9426-ND	451.13/1		3640
Cable Shear for 3640			3M9427-ND	1386.00/1		3320
Locator Plate D-Sub			3M9429-ND	406.34/1		3443-106N
Platen D-Sub 9 and 15 Position Plugs			3M9430-ND	150.23/1		3442-39N
Platen D-Sub 25 and 37 Position Plugs			3M9431-ND	150.23/1		3442-41N
Tool Platen Assembly			3M9433-ND	96.75/1		3442-9

D-Sub Cable Assemblies

Single Ended Male

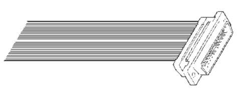

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Au 30μ"	6 (1.83)	MC	M7PXK-0906R-ND	11.44	86.71
	Au 30μ"	6 (1.83)	GR	M7PXK-0906J-ND	10.31	78.18
	Au 30μ"	10 (3.05)	MC	M7PXK-0910R-ND	13.59	102.99
	Au 30μ"	10 (3.05)	GR	M7PXK-0910J-ND	11.71	88.79
15	Au 30μ"	6 (1.83)	MC	M7PXK-1506R-ND	15.29	115.93
	Au 30μ"	6 (1.83)	GR	M7PXK-1506J-ND	13.10	99.30
	Au 30μ"	10 (3.05)	MC	M7PXK-1510R-ND	18.73	141.99
	Au 30μ"	10 (3.05)	GR	M7PXK-1510J-ND	15.07	114.27
25	Au 30μ"	6 (1.83)	MC	M7PXK-2506R-ND	19.04	144.36
	Au 30μ"	6 (1.83)	GR	M7PXK-2506J-ND	15.30	115.95
	Au 30μ"	10 (3.05)	MC	M7PXK-2510R-ND	24.63	186.70
	Au 30μ"	10 (3.05)	GR	M7PXK-2510J-ND	18.38	139.36
37	Au 30μ"	6 (1.83)	MC	M7PXK-3706R-ND	25.63	194.26
	Au 30μ"	6 (1.83)	GR	M7PXK-3706J-ND	20.30	153.92
	Au 30μ"	10 (3.05)	MC	M7PXK-3710R-ND	33.57	254.51
	Au 30μ"	10 (3.05)	GR	M7PXK-3710J-ND	24.70	187.28

Also available in the following configurations:
M7NXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Single Ended Female

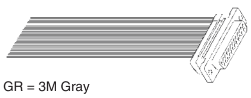

*MC = 3M Multi-Color, GR = 3M Gray

Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Au 30μ"	6 (1.83)	MC	M7SXK-0906R-ND	10.29	78.01
	Au 30μ"	6 (1.83)	GR	M7SXK-0906J-ND	9.17	69.49
	Au 30μ"	10 (3.05)	MC	M7SXK-0910R-ND	12.44	94.30
	Au 30μ"	10 (3.05)	GR	M7SXK-0910J-ND	10.57	80.10
15	Au 30μ"	6 (1.83)	MC	M7SXK-1506R-ND	14.05	106.53
	Au 30μ"	6 (1.83)	GR	M7SXK-1506J-ND	11.86	89.90
	Au 30μ"	10 (3.05)	MC	M7SXK-1510R-ND	17.49	132.59
	Au 30μ"	10 (3.05)	GR	M7SXK-1510J-ND	13.83	104.87
25	Au 30μ"	6 (1.83)	MC	M7SXK-2506R-ND	19.23	145.77
	Au 30μ"	6 (1.83)	GR	M7SXK-2506J-ND	15.48	117.36
	Au 30μ"	10 (3.05)	MC	M7SXK-2510R-ND	24.81	188.11
	Au 30μ"	10 (3.05)	GR	M7SXK-2510J-ND	18.57	140.77
37	Au 30μ"	6 (1.83)	MC	M7SXK-3706R-ND	25.81	195.67
	Au 30μ"	6 (1.83)	GR	M7SXK-3706J-ND	20.49	155.33
	Au 30μ"	10 (3.05)	MC	M7SXK-3710R-ND	33.76	255.92
	Au 30μ"	10 (3.05)	GR	M7SXK-3710J-ND	24.89	188.69

Also available in the following configurations:
M7OXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Male

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Au 30μ"	6 (1.83)	MC	M7PPK-0906R-ND	19.65	148.98
	Au 30μ"	6 (1.83)	GR	M7PPK-0906J-ND	18.53	140.46
	Au 30μ"	10 (3.05)	MC	M7PPK-0910R-ND	21.80	165.27
	Au 30μ"	10 (3.05)	GR	M7PPK-0910J-ND	19.93	151.07
15	Au 30μ"	6 (1.83)	MC	M7PPK-1506R-ND	25.43	192.78
	Au 30μ"	6 (1.83)	GR	M7PPK-1506J-ND	23.24	176.15
	Au 30μ"	10 (3.05)	MC	M7PPK-1510R-ND	28.87	218.83
	Au 30μ"	10 (3.05)	GR	M7PPK-1510J-ND	25.21	191.12
25	Au 30μ"	6 (1.83)	MC	M7PPK-2506R-ND	29.71	225.20
	Au 30μ"	6 (1.83)	GR	M7PPK-2506J-ND	25.96	196.79
	Au 30μ"	10 (3.05)	MC	M7PPK-2510R-ND	35.29	267.54
	Au 30μ"	10 (3.05)	GR	M7PPK-2510J-ND	29.05	220.20
37	Au 30μ"	6 (1.83)	MC	M7PPK-3706R-ND	39.33	298.13
	Au 30μ"	6 (1.83)	GR	M7PPK-3706J-ND	34.01	257.79
	Au 30μ"	10 (3.05)	MC	M7PPK-3710R-ND	47.28	358.38
	Au 30μ"	10 (3.05)	GR	M7PPK-3710J-ND	38.41	291.15

Also available in the following configurations:
M7NNK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VVK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Female to Female

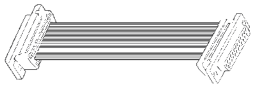

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Au 30μ"	6 (1.83)	MC	M7SSK-0906R-ND	17.36	131.59
	Au 30μ"	6 (1.83)	GR	M7SSK-0906J-ND	16.23	123.07
	Au 30μ"	10 (3.05)	MC	M7SSK-0910R-ND	19.51	147.88
	Au 30μ"	10 (3.05)	GR	M7SSK-0910J-ND	17.63	133.68
15	Au 30μ"	6 (1.83)	MC	M7SSK-1506R-ND	22.95	173.98
	Au 30μ"	6 (1.83)	GR	M7SSK-1506J-ND	20.76	157.35
	Au 30μ"	10 (3.05)	MC	M7SSK-1510R-ND	26.39	200.03
	Au 30μ"	10 (3.05)	GR	M7SSK-1510J-ND	22.73	172.32
25	Au 30μ"	6 (1.83)	MC	M7SSK-2506R-ND	30.08	228.02
	Au 30μ"	6 (1.83)	GR	M7SSK-2506J-ND	26.33	199.61
	Au 30μ"	10 (3.05)	MC	M7SSK-2510R-ND	35.66	270.36
	Au 30μ"	10 (3.05)	GR	M7SSK-2510J-ND	29.42	223.02
37	Au 30μ"	6 (1.83)	MC	M7SSK-3706R-ND	39.70	300.95
	Au 30μ"	6 (1.83)	GR	M7SSK-3706J-ND	34.38	260.61
	Au 30μ"	10 (3.05)	MC	M7SSK-3710R-ND	47.65	361.20
	Au 30μ"	10 (3.05)	GR	M7SSK-3710J-ND	38.78	293.97

Also available in the following configurations:
M7OOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Female

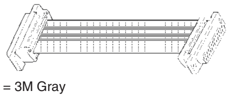

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Au 30μ"	6 (1.83)	MC	M7PSK-0906R-ND	18.51	140.29
	Au 30μ"	6 (1.83)	GR	M7PSK-0906J-ND	17.38	131.76
	Au 30μ"	10 (3.05)	MC	M7PSK-0910R-ND	20.65	156.57
	Au 30μ"	10 (3.05)	GR	M7PSK-0910J-ND	18.78	142.37
15	Au 30μ"	6 (1.83)	MC	M7PSK-1506R-ND	24.19	183.38
	Au 30μ"	6 (1.83)	GR	M7PSK-1506J-ND	22.00	166.75
	Au 30μ"	10 (3.05)	MC	M7PSK-1510R-ND	27.63	209.43
	Au 30μ"	10 (3.05)	GR	M7PSK-1510J-ND	23.97	181.72
25	Au 30μ"	6 (1.83)	MC	M7PSK-2506R-ND	29.89	226.61
	Au 30μ"	6 (1.83)	GR	M7PSK-2506J-ND	26.15	198.20
	Au 30μ"	10 (3.05)	MC	M7PSK-2510R-ND	35.48	268.95
	Au 30μ"	10 (3.05)	GR	M7PSK-2510J-ND	29.23	221.61
37	Au 30μ"	6 (1.83)	MC	M7PSK-3706R-ND	39.51	299.54
	Au 30μ"	6 (1.83)	GR	M7PSK-3706J-ND	34.19	259.20
	Au 30μ"	10 (3.05)	MC	M7PSK-3710R-ND	47.46	359.79
	Au 30μ"	10 (3.05)	GR	M7PSK-3710J-ND	38.59	292.56

Also available in the following configurations:
M7NOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

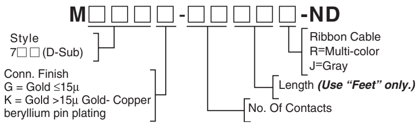

M□□□□-□□□□□-ND

Style
7□□ (D-Sub)

Conn. Finish
G = Gold ≤15µ
K = Gold >15µ Gold- Copper beryllium pin plating

No. Of Contacts

Length *(Use "Feet" only.)*

Ribbon Cable
R=Multi-color
J=Gray

3M

.100" x .100" (2.54mm x 2.54mm) Socket Connectors

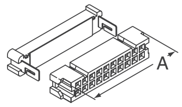

Physical Specifications:

• Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded • Marking: 3M logo, part identification number and orientation triangle

Electrical Specifications:

• Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications:

• Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	2.98	22.56	3473-6000
14	.88 (22.35)	MSC14K-ND	3.60	27.26	3385-6000
16	.98 (24.89)	MSC16K-ND	3.94	29.85	3452-6000
20	1.18 (29.97)	MSC20K-ND	4.34	32.90	3421-6000
24	1.38 (35.05)	MSC24K-ND	5.21	39.48	3626-6000
26	1.48 (37.59)	MSC26K-ND	5.61	42.54	3399-6000
30	1.68 (42.67)	MSC30K-ND	6.45	48.88	3419-6000
34	1.88 (47.75)	MSC34K-ND	7.32	55.46	3414-6000
40	2.18 (55.37)	MSC40K-ND	8.59	65.10	3417-6000
50	2.68 (68.07)	MSC50K-ND	10.73	81.31	3425-6000
60	3.18 (80.77)	MSC60K-ND	13.30	100.82	3334-6000
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	2.98	22.56	3473-6600
14	.88 (22.35)	MKC14K-ND	3.60	27.26	3385-6600
16	.98 (24.89)	MKC16K-ND	3.94	29.85	3452-6600
20	1.18 (29.97)	MKC20K-ND	4.34	32.90	3421-6600
24	1.38 (35.05)	MKC24K-ND	5.21	39.48	3626-6600
26	1.48 (37.59)	MKC26K-ND	5.61	42.54	3399-6600
30	1.68 (42.67)	MKC30K-ND	6.45	48.88	3419-6600
34	1.88 (47.75)	MKC34K-ND	7.32	55.46	3414-6600
40	2.18 (55.37)	MKC40K-ND	8.59	65.10	3417-6600
50	2.68 (68.07)	MKC50K-ND	10.73	81.31	3425-6600
60	3.18 (80.77)	MKC60K-ND	13.30	100.82	3334-6600
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	3.16	23.97	3473-7600
14	.88 (22.35)	MSD14K-ND	3.97	30.08	3385-7600
16	.98 (24.89)	MSD16K-ND	4.15	31.49	3452-7600
20	1.18 (29.97)	MSD20K-ND	4.56	34.55	3421-7600
24	1.38 (35.05)	MSD24K-ND	5.46	41.36	3626-7600
26	1.48 (37.59)	MSD26K-ND	5.92	44.89	3399-7600
30	1.68 (42.67)	MSD30K-ND	6.79	51.47	3419-7600
34	1.88 (47.75)	MSD34K-ND	7.63	57.81	3414-7600
40	2.18 (55.37)	MSD40K-ND	8.96	67.92	3417-7600
50	2.68 (68.07)	MSD50K-ND	11.16	84.60	3425-7600
60	3.18 (80.77)	MSD60K-ND	13.80	104.58	3334-7600
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.37	2.82	3448-3010
14	—	MSSR14-ND	.37	2.82	3448-3014
16	—	MSSR16-ND	.37	2.82	3448-3016
20	—	MSSR20-ND	.37	2.82	3448-3020
24	—	MSSR24-ND	.50	3.76	3448-3024
26	—	MSSR26-ND	.37	2.82	3448-3026
30	—	MSSR30-ND	.68	5.17	3448-3030
34	—	MSSR34-ND	.37	2.82	3448-3034
40	—	MSSR40-ND	.37	2.82	3448-3040
50	—	MSSR50-ND	.37	2.82	3448-3050
60	—	MSSR60-ND	.40	3.06	3448-3060
Keying Plug					
Keying Plug for Socket		3M9123-ND	.09/1		3435-0
Pull Tabs					
9, 10, 14, 15, 16 Pos. Socket		3M9438-ND	.21	1.75	3490-1
20, 24, 25, 26 Pos. Socket		3M9439-ND	.25	2.10	3490-2
28, 34, 36 Position Socket		3M9440-ND	.29	2.45	3490-3
36, 37, 40 Position Socket		3M9441-ND	.37	3.15	3490-4
50 and 60 Position Socket		3M9442-ND	.42	3.50	3490-5
Tooling					
Bench Press Assembly Tool		3M9426-ND	451.13/1		3640
Cable Shear for 3640		3M9427-ND	1386.00/1		3320
Tool Platen Assembly		3M9433-ND	96.75/1		3442-9
Locator Plate Socket 3000		3M9443-ND	705.00/1		3443-94

3M

891 Series and D89 Series .100" x .100"(2.54mm x 2.54mm) Socket Connectors

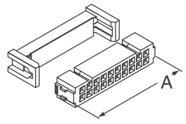

These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. These interconnects also offer the quality and reliability you'd expect from 3M. They have been engineered with a "systems" approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Wire Accommodation: 26AWG and 28AWG stranded **891 Series** • Color: Gray • Contact Plating: Wipe Area: 30µ" gold • Underplate: 50µ" nickel, QQ-N-290, Class 2 **D89 Series** • Color: Black • Contact Plating: Wipe area: 10µ" gold • Underplate: 50µ" nickel **Electrical Specifications**: • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ Sea Level **Environmental Specifications**: • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
891 Series, without Center Bump – 30µ" Gold					
10	.68 (17.3)	MSC10A-ND	.96	7.29	89110-0001
14	.88 (22.4)	MSC14A-ND	.99	7.52	89114-0001
16	.98 (24.9)	MSC16A-ND	1.02	7.76	89116-0001
20	1.18 (30.0)	MSC20A-ND	1.12	8.46	89120-0001
24	1.38 (35.1)	MSC24A-ND	1.64	12.46	89124-0001
26	1.48 (37.6)	MSC26A-ND	1.27	9.64	89126-0001
30	1.68 (42.7)	MSC30A-ND	1.52	11.52	89130-0001
34	1.88 (47.8)	MSC34A-ND	1.43	10.81	89134-0001
40	2.18 (55.4)	MSC40A-ND	1.92	14.57	89140-0001
50	2.68 (68.1)	MSC50A-ND	2.08	15.75	89150-0001
60	3.18 (80.8)	MSC60A-ND	2.14	16.22	89160-0001
891 Series, with Center Bump – 30µ" Gold					
10	.68 (17.3)	MKC10A-ND	.96	7.29	89110-0101
14	.88 (22.4)	MKC14A-ND	.99	7.52	89114-0101
16	.98 (24.9)	MKC16A-ND	1.02	7.76	89116-0101
20	1.18 (30.0)	MKC20A-ND	1.12	8.46	89120-0101
24	1.38 (35.1)	MKC24A-ND	1.46	11.05	89124-0101
26	1.48 (37.6)	MKC26A-ND	1.27	9.64	89126-0101
30	1.68 (42.7)	MKC30A-ND	1.43	10.81	89130-0101
34	1.88 (47.8)	MKC34A-ND	1.43	10.81	89134-0101
40	2.18 (55.4)	MKC40A-ND	1.92	14.57	89140-0101
50	2.68 (68.1)	MKC50A-ND	2.08	15.75	89150-0101
60	3.18 (80.8)	MKC60A-ND	2.14	16.22	89160-0101
891 Series Strain Reliefs					
10	—	MKSR10-ND	.28	2.12	3448-89110
14	—	MKSR14-ND	.28	2.12	3448-89114
16	—	MKSR16-ND	.28	2.12	3448-89116
20	—	MKSR20-ND	.28	2.12	3448-89120
24	—	MKSR24-ND	.43	3.29	3448-89124
26	—	MKSR26-ND	.28	2.12	3448-89126
30	—	MKSR30-ND	.43	3.29	3448-89130
34	—	MKSR34-ND	.28	2.12	3448-89134
40	—	MKSR40-ND	.28	2.12	3448-89140
50	—	MKSR50-ND	.28	2.12	3448-89150
60	—	MKSR60-ND	.40	3.06	3448-89160
D89 Series, without Center Bump – 10µ" Gold					
10	.68 (17.3)	MSC10E-ND	.40	3.33	D89110-0031HK
14	.88 (22.4)	MSC14E-ND	.56	4.73	D89114-0031HK
16	.98 (24.9)	MSC16E-ND	.54	4.55	D89116-0031HK
20	1.18 (30.0)	MSC20E-ND	.56	4.73	D89120-0031HK
24	1.38 (35.1)	MSC24E-ND	.58	4.90	D89124-0031HK
26	1.48 (37.6)	MSC26E-ND	.58	4.90	D89126-0031HK
30	1.68 (42.7)	MSC30E-ND	.64	5.43	D89130-0031HK
34	1.88 (47.8)	MSC34E-ND	.73	6.13	D89134-0031HK
40	2.18 (55.4)	MSC40E-ND	.85	7.18	D89140-0031HK
50	2.68 (68.1)	MSC50E-ND	1.06	8.93	D89150-0031HK
D89 Series, with Center Bump – 10µ" Gold					
10	.68 (17.3)	MKC10E-ND	.40	3.33	D89110-0131HK
14	.88 (22.4)	MKC14E-ND	.56	4.73	D89114-0131HK
16	.98 (24.9)	MKC16E-ND	.54	4.55	D89116-0131HK
20	1.18 (30.0)	MKC20E-ND	.56	4.73	D89120-0131HK
24	1.38 (35.1)	MKC24E-ND	.58	4.90	D89124-0131HK
26	1.48 (37.6)	MKC26E-ND	.58	4.90	D89126-0131HK
30	1.68 (42.7)	MKC30E-ND	.64	5.43	D89130-0131HK
34	1.88 (47.8)	MKC34E-ND	.73	6.13	D89134-0131HK
40	2.18 (55.4)	MKC40E-ND	.85	7.18	D89140-0131HK
50	2.68 (68.1)	MKC50E-ND	1.06	8.93	D89150-0131HK
D89 Series Strain Reliefs					
10	—	MESR10-ND	.19	1.58	D3448-89110
14	—	MESR14-ND	.19	1.58	D3448-89114
16	—	MESR16-ND	.19	1.58	D3448-89116
20	—	MESR20-ND	.19	1.58	D3448-89120
24	—	MESR24-ND	.19	1.58	D3448-89124
26	—	MESR26-ND	.19	1.58	D3448-89126
30	—	MESR30-ND	.19	1.58	D3448-89130
34	—	MESR34-ND	.19	1.58	D3448-89134
40	—	MESR40-ND	.19	1.58	D3448-89140
50	—	MESR50-ND	.19	1.58	D3448-89150
Keying Plug					
Keying Plug for Socket		3M9123-ND	.09/1		3435-0
Pull Tabs					
10-20 Position D89 and 891		3M9435-ND	.15	1.23	3490-89110
24-36 Position D89 and 891		3M9436-ND	.33	2.80	3490-89124
40-60 Position D89 and 891		3M9437-ND	.23	1.93	3490-89140
Tooling					
Bench Press Assembly Tool		3M9426-ND	451.13/1		3640
Cable Shear for 3640		3M9427-ND	1386.00/1		3320
Tool Platen Assembly		3M9433-ND	96.75/1		3442-9
Locator Plate Socket D89 and 891		3M9434-ND	547.50/1		3443-107N

3M

NEW! 820 Series Tripolarized Wiremount Socket .050" x .100" (1.27mm x 2.54mm) Pitch Cable

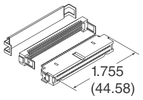

Physical Specifications: • Insulation Material: Glass filled polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating: Underplating: 100µ" nickel • Wiping Area: 30µ" gold • Wire Accommodation: 30AWG solid, pleated foil or stranded • Marking: 3M logo and orientation triangle
Electrical Specifications: • Current Rating: 0.5A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 500VRMS @ sea level
Environmental Specifications: • Temperature Rating: -55°C ~ 105°C

No. of Contacts	Digi-Key Part No.	Price Each 1	100	3M Part No.
60	3M9644-ND	13.98	10.62	82060-6006RB

3M

.100" x .100" (2.54mm x 2.54mm) Plug Connectors

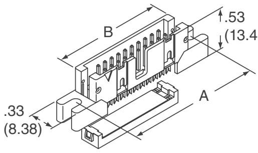

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Copper Alloy • Latch Eject Headers: Copper alloy • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded
Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level
Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	4.40	33.37	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	6.11	46.30	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	6.91	52.41	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	8.06	61.10	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	8.87	67.21	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	9.18	69.56	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	10.08	76.38	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	11.38	86.25	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	12.03	91.18	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	12.62	95.65	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	13.67	103.64	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	16.12	122.20	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	17.21	130.43	4664-6000
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	4.40	33.37	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	6.11	46.30	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	6.91	52.41	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	8.06	61.10	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	8.87	67.21	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	9.18	69.56	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	10.08	76.38	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	11.38	86.25	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	12.03	91.18	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	12.62	95.65	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	13.67	103.64	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	16.12	122.20	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	17.21	130.43	4664-6001
Strain Reliefs						
10	—	—	MPSR10-ND	.87	6.58	3448-4610
14	—	—	MPSR14-ND	2.26	17.16	3448-4614
16	—	—	MPSR16-ND	1.61	12.22	3448-4616
20	—	—	MPSR20-ND	1.33	10.11	3448-4620
24	—	—	MPSR24-ND	2.20	16.69	3448-4624
26	—	—	MPSR26-ND	2.33	17.63	3448-4626
30	—	—	MPSR30-ND	1.24	9.40	3448-4630
34	—	—	MPSR34-ND	1.40	10.58	3448-4634
36	—	—	MPSR36-ND	5.15	39.01	3448-4636
40	—	—	MPSR40-ND	1.43	10.81	3448-4640
50	—	—	MPSR50-ND	1.71	12.93	3448-4650
60	—	—	MPSR60-ND	2.33	17.63	3448-4660
64	—	—	MPSR64-ND	1.52	11.52	3448-4664
Lock Eject. Hooks (Short)			MDLKS1-ND	.29/2	1.23	3505-16
Lock Eject. Hooks (Long)			MDLKS2-ND	.33/2	1.40	3505-17
Polarizing Key			MHA103-ND	—	1.80	3518
Tooling						
Bench Press Assembly Tool			3M9426-ND	451.13/1		3640
Cable Shear for 3640			3M9427-ND	1386.00/1		3320
Tool Platen Assembly			3M9433-ND	96.75/1		3442-9
Locator Plate 4600 Series			3M9432-ND	1080.00/1		3443-96

3M .100" (2.54mm) Card Edge Connectors

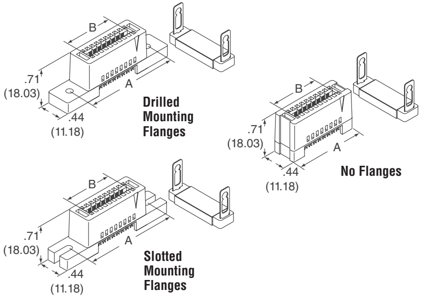

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Marking: 3M logo and part identification number
Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level
Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971 • Wire Accommodation: 26AWG solid or stranded, 28AWG solid or stranded, 30AWG solid
Order strain reliefs separately.

No. of Cont.	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
With Drilled Mounting Flanges						
10	1.40 (35.56)	.612 (15.54)	MCF10K-ND	7.60	57.58	3358-0000
16	1.70 (43.18)	.912 (23.16)	MCF16K-ND	9.33	70.74	3368-0000
20	1.90 (48.26)	1.112 (28.24)	MCF20K-ND	9.89	74.97	3461-0000
26	2.20 (55.88)	1.412 (35.86)	MCF26K-ND	12.00	90.95	3462-0000
34	2.60 (66.04)	1.812 (46.02)	MCF34K-ND	12.77	96.82	3463-0000
40	2.90 (73.66)	2.112 (53.64)	MCF40K-ND	14.01	106.22	3464-0000
50	3.40 (86.36)	2.612 (66.34)	MCF50K-ND	17.39	131.84	3415-0000
60	3.90 (99.06)	3.112 (79.04)	MCF60K-ND	20.09	152.28	3666-0000
64	4.10 (104.14)	3.312 (84.12)	MCF64K-ND	19.56	148.29	3403-0000
Without Flanges						
10	.96 (24.38)	.612 (15.54)	MCE10K-ND	7.60	57.58	3358-0001
16	1.26 (32.00)	.912 (23.16)	MCE16K-ND	9.33	70.74	3368-0001
20	1.46 (37.08)	1.112 (28.24)	MCE20K-ND	9.89	74.97	3461-0001
26	1.76 (44.70)	1.412 (35.86)	MCE26K-ND	12.00	90.95	3462-0001
34	2.16 (54.86)	1.812 (46.02)	MCE34K-ND	12.77	96.82	3463-0001
40	2.46 (62.48)	2.112 (53.64)	MCE40K-ND	14.01	106.22	3464-0001
50	2.96 (75.18)	2.612 (66.34)	MCE50K-ND	17.39	131.84	3415-0001
60	3.46 (87.88)	3.112 (79.04)	MCE60K-ND	20.09	152.28	3666-0001
64	3.66 (92.96)	3.312 (84.12)	MCE64K-ND	19.56	148.29	3403-0001
With Slotted Mounting Flanges						
10	1.30 (33.02)	.612 (15.54)	MCS10K-ND	7.60	57.58	3358-0002
16	1.60 (40.64)	.912 (23.16)	MCS16K-ND	9.33	70.74	3368-0002
20	1.80 (45.72)	1.112 (28.24)	MCS20K-ND	9.89	74.97	3461-0002
26	2.10 (53.34)	1.412 (35.86)	MCS26K-ND	12.00	90.95	3462-0002
34	2.50 (63.50)	1.812 (46.02)	MCS34K-ND	12.77	96.82	3463-0002
40	2.80 (71.12)	2.112 (53.64)	MCS40K-ND	14.01	106.22	3464-0002
50	3.30 (83.82)	2.612 (66.34)	MCS50K-ND	17.39	131.84	3415-0002
60	3.80 (96.52)	3.112 (79.04)	MCS60K-ND	20.09	152.28	3666-0002
64	4.00 (101.60)	3.312 (84.12)	MCS64K-ND	19.56	148.29	3403-0002
Strain Reliefs						
10	—	—	MCSR10-ND	3.63	27.50	3448-52
16	—	—	MCSR16-ND	4.19	31.73	3448-53
20	—	—	MCSR20-ND	2.98	22.56	3448-54
26	—	—	MCSR26-ND	11.72	88.83	3448-55
34	—	—	MCSR34-ND	2.17	16.45	3448-56
40	—	—	MCSR40-ND	3.94	29.85	3448-57
50	—	—	MCSR50-ND	3.13	23.74	3448-58
60	—	—	MCSR60-ND	8.06	61.10	3448-31
64	—	—	MCSR64-ND	5.15	39.01	3448-59

3M Termination Jumpers

Single Ended Socket Connector

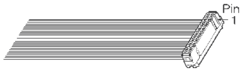

*MC = 3M Multi-Color, GR = 3M Gray
Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1AXK-1036R-ND	4.59	34.78
	Au 15µ"	36 (91.44)	MC	M1AXA-1036R-ND	2.57	19.50
	Au 30µ"	36 (91.44)	GR	M1AXK-1036J-ND	4.03	30.51
	Au 15µ"	36 (91.44)	GR	M1AXA-1036J-ND	2.01	15.24
14	Au 30µ"	36 (91.44)	MC	M1AXK-1436R-ND	5.85	44.36
	Au 15µ"	36 (91.44)	MC	M1AXA-1436R-ND	3.25	24.62
	Au 30µ"	36 (91.44)	GR	M1AXK-1436J-ND	4.93	37.40
	Au 15µ"	36 (91.44)	GR	M1AXA-1436J-ND	2.33	17.66
16	Au 30µ"	36 (91.44)	MC	M1AXK-1636R-ND	6.51	49.39
	Au 15µ"	36 (91.44)	MC	M1AXA-1636R-ND	3.60	27.30
	Au 30µ"	36 (91.44)	GR	M1AXK-1636J-ND	5.42	41.07
	Au 15µ"	36 (91.44)	GR	M1AXA-1636J-ND	2.50	18.98
20	Au 30µ"	36 (91.44)	MC	M1AXK-2036R-ND	7.56	57.33
	Au 15µ"	36 (91.44)	MC	M1AXA-2036R-ND	4.34	32.89
	Au 30µ"	36 (91.44)	GR	M1AXK-2036J-ND	6.11	46.31
	Au 15µ"	36 (91.44)	GR	M1AXA-2036J-ND	2.89	21.87
24	Au 30µ"	36 (91.44)	MC	M1AXK-2436R-ND	9.07	68.79
	Au 15µ"	36 (91.44)	MC	M1AXA-2436R-ND	5.51	41.77
	Au 30µ"	36 (91.44)	GR	M1AXK-2436J-ND	7.34	55.66
	Au 15µ"	36 (91.44)	GR	M1AXA-2436J-ND	3.78	28.63
26	Au 30µ"	36 (91.44)	MC	M1AXK-2636R-ND	9.80	74.29
	Au 15µ"	36 (91.44)	MC	M1AXA-2636R-ND	5.46	41.39
	Au 30µ"	36 (91.44)	GR	M1AXK-2636J-ND	7.93	60.09
	Au 15µ"	36 (91.44)	GR	M1AXA-2636J-ND	3.59	27.19
30	Au 30µ"	36 (91.44)	MC	M1AXK-3036R-ND	11.93	90.41
	Au 15µ"	36 (91.44)	MC	M1AXA-3036R-ND	7.00	53.04
	Au 30µ"	36 (91.44)	GR	M1AXK-3036J-ND	9.48	71.87
	Au 15µ"	36 (91.44)	GR	M1AXA-3036J-ND	4.55	34.51
34	Au 30µ"	36 (91.44)	MC	M1AXK-3436R-ND	12.79	96.99
	Au 15µ"	36 (91.44)	MC	M1AXA-3436R-ND	6.90	52.34
	Au 30µ"	36 (91.44)	GR	M1AXK-3436J-ND	10.35	78.45
	Au 15µ"	36 (91.44)	GR	M1AXA-3436J-ND	4.46	33.80
40	Au 30µ"	36 (91.44)	MC	M1AXK-4036R-ND	15.03	113.95
	Au 15µ"	36 (91.44)	MC	M1AXA-4036R-ND	8.37	63.43
	Au 30µ"	36 (91.44)	GR	M1AXK-4036J-ND	12.16	92.15
	Au 15µ"	36 (91.44)	GR	M1AXA-4036J-ND	5.49	41.63
50	Au 30µ"	36 (91.44)	MC	M1AXK-5036R-ND	18.78	142.38
	Au 15µ"	36 (91.44)	MC	M1AXA-5036R-ND	10.13	76.82
	Au 30µ"	36 (91.44)	GR	M1AXK-5036J-ND	15.19	115.16
	Au 15µ"	36 (91.44)	GR	M1AXA-5036J-ND	6.54	49.59
60	Au 30µ"	36 (91.44)	MC	M1AXK-6036R-ND	22.97	174.10
	Au 15µ"	36 (91.44)	MC	M1AXA-6036R-ND	11.81	89.50
	Au 30µ"	36 (91.44)	GR	M1AXK-6036J-ND	18.65	141.39
	Au 15µ"	36 (91.44)	GR	M1AXA-6036J-ND	7.49	56.79

Also available in the following configurations:
M1BX□-□□36□-ND – Standard Open End with Strain Relief
M1CX□-□□36□-ND – Standard Open End with Polarizing Key
M1DX□-□□36□-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-□□36□-ND – Standard Closed End with Polarizing Key
M1UXK-□□36□-ND – Std. Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Single Ended Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1AXK-1040K-ND	5.46	41.38
	Au 15µ"	40 (101.60)	TW	M1AXA-1040K-ND	3.44	26.10
14	Au 30µ"	40 (101.60)	TW	M1AXK-1440K-ND	7.07	53.60
	Au 15µ"	40 (101.60)	TW	M1AXA-1440K-ND	4.47	33.86
16	Au 30µ"	40 (101.60)	TW	M1AXK-1640K-ND	7.91	59.96
	Au 15µ"	40 (101.60)	TW	M1AXA-1640K-ND	5.00	37.87
20	Au 30µ"	40 (101.60)	TW	M1AXK-2040K-ND	9.30	70.54
	Au 15µ"	40 (101.60)	TW	M1AXA-2040K-ND	6.08	46.10
26	Au 30µ"	40 (101.60)	TW	M1AXK-2640K-ND	12.07	91.47
	Au 15µ"	40 (101.60)	TW	M1AXA-2640K-ND	7.73	58.57
34	Au 30µ"	40 (101.60)	TW	M1AXK-3440K-ND	15.76	119.44
	Au 15µ"	40 (101.60)	TW	M1AXA-3440K-ND	9.87	74.79
40	Au 30µ"	40 (101.60)	TW	M1AXK-4040K-ND	18.52	140.37
	Au 15µ"	40 (101.60)	TW	M1AXA-4040K-ND	11.85	89.85
50	Au 30µ"	40 (101.60)	TW	M1AXK-5040K-ND	23.14	175.40
	Au 15µ"	40 (101.60)	TW	M1AXA-5040K-ND	14.49	109.84
60	Au 30µ"	40 (101.60)	TW	M1AXK-6040K-ND	28.19	213.73
	Au 15µ"	40 (101.60)	TW	M1AXA-6040K-ND	17.03	129.13

Also available in the following configurations:
M1BX□-□□40K-ND – Standard Open End with Strain Relief
M1CX□-□□40K-ND – Standard Open End with Polarizing Key
M1DX□-□□40K-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-□□40K-ND – Standard Closed End with Polarizing Key
M1UXK-□□40K-ND – Std. Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector Single Ended

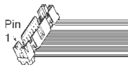

*MC = 3M Multi-Color, GR = 3M Gray
Pin connector without flange, with polarizing key shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1KXK-1036R-ND	6.01	45.59
	Au 30µ"	36 (91.44)	GR	M1KXK-1036J-ND	5.45	41.32
14	Au 30µ"	36 (91.44)	MC	M1KXK-1436R-ND	8.36	63.40
	Au 30µ"	36 (91.44)	GR	M1KXK-1436J-ND	7.44	56.43
16	Au 30µ"	36 (91.44)	MC	M1KXK-1636R-ND	9.49	71.95
	Au 30µ"	36 (91.44)	GR	M1KXK-1636J-ND	8.39	63.63
20	Au 30µ"	36 (91.44)	MC	M1KXK-2036R-ND	11.28	85.53
	Au 30µ"	36 (91.44)	GR	M1KXK-2036J-ND	9.83	74.51
24	Au 30µ"	36 (91.44)	MC	M1KXK-2436R-ND	12.73	96.52
	Au 30µ"	36 (91.44)	GR	M1KXK-2436J-ND	11.00	83.39
26	Au 30µ"	36 (91.44)	MC	M1KXK-2636R-ND	13.37	101.32
	Au 30µ"	36 (91.44)	GR	M1KXK-2636J-ND	11.49	87.11
30	Au 30µ"	36 (91.44)	MC	M1KXK-3036R-ND	15.55	117.90
	Au 30µ"	36 (91.44)	GR	M1KXK-3036J-ND	13.11	99.37
34	Au 30µ"	36 (91.44)	MC	M1KXK-3436R-ND	16.86	127.77
	Au 30µ"	36 (91.44)	GR	M1KXK-3436J-ND	14.41	109.24
36	Au 30µ"	36 (91.44)	MC	M1KXK-3636R-ND	17.99	136.37
	Au 30µ"	36 (91.44)	GR	M1KXK-3636J-ND	15.33	116.20
40	Au 30µ"	36 (91.44)	MC	M1KXK-4036R-ND	19.06	144.50
	Au 30µ"	36 (91.44)	GR	M1KXK-4036J-ND	16.19	122.70
50	Au 30µ"	36 (91.44)	MC	M1KXK-5036R-ND	21.73	164.71
	Au 30µ"	36 (91.44)	GR	M1KXK-5036J-ND	18.14	137.48
60	Au 30µ"	36 (91.44)	MC	M1KXK-6036R-ND	25.79	195.48
	Au 30µ"	36 (91.44)	GR	M1KXK-6036J-ND	21.47	162.77
64	Au 30µ"	36 (91.44)	MC	M1KXK-6436R-ND	27.52	208.60
	Au 30µ"	36 (91.44)	GR	M1KXK-6436J-ND	22.91	173.68

Also available in the following configurations:
M1RXK-□□36□-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M1WXK-□□36□-ND – Pin Connector with Flange, with Polarizing Key
M1YXK-□□36□-ND – Pin Connector with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector — Single Ended

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1KXK-1040K-ND	6.88	52.19
14	Au 30µ"	40 (101.60)	TW	M1KXK-1440K-ND	9.58	72.64
16	Au 30µ"	40 (101.60)	TW	M1KXK-1640K-ND	10.89	82.52
20	Au 30µ"	40 (101.60)	TW	M1KXK-2040K-ND	13.02	98.74
26	Au 30µ"	40 (101.60)	TW	M1KXK-2640K-ND	15.63	118.49
34	Au 30µ"	40 (101.60)	TW	M1KXK-3440K-ND	19.82	150.23
40	Au 30µ"	40 (101.60)	TW	M1KXK-4040K-ND	22.55	170.92
50	Au 30µ"	40 (101.60)	TW	M1KXK-5040K-ND	26.08	197.73
60	Au 30µ"	40 (101.60)	TW	M1KXK-6040K-ND	31.01	235.11
64	Au 30µ"	40 (101.60)	TW	M1KXK-6440K-ND	33.09	250.86

Also available in the following configurations:
M1RXK-□□40K-ND – Standard Open End without Flange, with Polarizing Key and Strain Relief
M1WXK-□□40K-ND – Standard Open End with Flange, with Polarizing Key
M1YXK-□□40K-ND – Standard Open End with Flange, with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket to Socket Connector

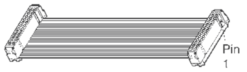

*MC = 3M Multi-Color, GR = 3M Gray
Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	6 (15.24)	MC	M3AAK-1006R-ND	6.22	47.16
	Au 15µ"	6 (15.24)	MC	M3AAA-1006R-ND	2.19	16.61
	Au 30µ"	6 (15.24)	GR	M3AAK-1006J-ND	6.13	46.45
	Au 15µ"	6 (15.24)	GR	M3AAA-1006J-ND	2.10	15.90
	Au 30µ"	18 (45.72)	MC	M3AAK-1018R-ND	6.76	51.23
	Au 15µ"	18 (45.72)	MC	M3AAA-1018R-ND	2.73	20.68
	Au 30µ"	18 (45.72)	GR	M3AAK-1018J-ND	6.48	49.10
	Au 15µ"	18 (45.72)	GR	M3AAA-1018J-ND	2.45	18.55
	Au 30µ"	36 (91.44)	MC	M3AAK-1036R-ND	7.56	57.34
	Au 15µ"	36 (91.44)	MC	M3AAA-1036R-ND	3.53	26.79
	Au 30µ"	36 (91.44)	GR	M3AAK-1036J-ND	7.00	53.07
	Au 15µ"	36 (91.44)	GR	M3AAA-1036J-ND	2.97	22.52
14	Au 30µ"	6 (15.24)	MC	M3AAK-1406R-ND	7.57	57.37
	Au 15µ"	6 (15.24)	MC	M3AAA-1406R-ND	2.36	17.89
	Au 30µ"	6 (15.24)	GR	M3AAK-1406J-ND	7.41	56.21
	Au 15µ"	6 (15.24)	GR	M3AAA-1406J-ND	2.21	16.73
	Au 30µ"	18 (45.72)	MC	M3AAK-1418R-ND	8.32	63.07
	Au 15µ"	18 (45.72)	MC	M3AAA-1418R-ND	3.11	23.59
	Au 30µ"	18 (45.72)	GR	M3AAK-1418J-ND	7.86	59.59
	Au 15µ"	18 (45.72)	GR	M3AAA-1418J-ND	2.65	20.11
	Au 30µ"	36 (91.44)	MC	M3AAK-1436R-ND	9.45	71.62
	Au 15µ"	36 (91.44)	MC	M3AAA-1436R-ND	4.24	32.14
	Au 30µ"	36 (91.44)	GR	M3AAK-1436J-ND	8.53	64.66
	Au 15µ"	36 (91.44)	GR	M3AAA-1436J-ND	3.32	25.18
16	Au 30µ"	6 (15.24)	MC	M3AAK-1606R-ND	8.30	62.95
	Au 15µ"	6 (15.24)	MC	M3AAA-1606R-ND	2.48	18.77
	Au 30µ"	6 (15.24)	GR	M3AAK-1606J-ND	8.12	61.56
	Au 15µ"	6 (15.24)	GR	M3AAA-1606J-ND	2.29	17.38
	Au 30µ"	18 (45.72)	MC	M3AAK-1618R-ND	9.16	69.46
	Au 15µ"	18 (45.72)	MC	M3AAA-1618R-ND	3.33	25.28
	Au 30µ"	18 (45.72)	GR	M3AAK-1618J-ND	8.61	65.30
	Au 15µ"	18 (45.72)	GR	M3AAA-1618J-ND	2.79	21.12
	Au 30µ"	36 (91.44)	MC	M3AAK-1636R-ND	10.45	79.23
	Au 15µ"	36 (91.44)	MC	M3AAA-1636R-ND	4.62	35.05
	Au 30µ"	36 (91.44)	GR	M3AAK-1636J-ND	9.36	70.92
	Au 15µ"	36 (91.44)	GR	M3AAA-1636J-ND	3.53	26.74

(Continued)

3M Termination Jumpers

Socket to Socket Connector *(Cont.)*

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
20	Au 30µ"	6 (15.24)	MC	M3AAK-2006R-ND	9.22	69.87
	Au 15µ"	6 (15.24)	MC	M3AAA-2006R-ND	2.77	20.99
	Au 30µ"	6 (15.24)	GR	M3AAK-2006J-ND	8.97	68.04
	Au 15µ"	6 (15.24)	GR	M3AAA-2006J-ND	2.53	19.16
	Au 30µ"	18 (45.72)	MC	M3AAK-2018R-ND	10.29	78.01
	Au 15µ"	18 (45.72)	MC	M3AAA-2018R-ND	3.84	29.13
	Au 30µ"	18 (45.72)	GR	M3AAK-2018J-ND	9.56	72.51
	Au 15µ"	18 (45.72)	GR	M3AAA-2018J-ND	3.12	23.63
	Au 30µ"	36 (91.44)	MC	M3AAK-2036R-ND	11.90	90.23
	Au 15µ"	36 (91.44)	MC	M3AAA-2036R-ND	5.45	41.35
	Au 30µ"	36 (91.44)	GR	M3AAK-2036J-ND	10.45	79.21
	Au 15µ"	36 (91.44)	GR	M3AAA-2036J-ND	4.00	30.33
24	Au 30µ"	6 (15.24)	MC	M3AAK-2406R-ND	11.06	83.85
	Au 15µ"	6 (15.24)	MC	M3AAA-2406R-ND	3.93	29.80
	Au 30µ"	6 (15.24)	GR	M3AAK-2406J-ND	10.77	81.66
	Au 15µ"	6 (15.24)	GR	M3AAA-2406J-ND	3.64	27.61
	Au 30µ"	18 (45.72)	MC	M3AAK-2418R-ND	12.35	93.62
	Au 15µ"	18 (45.72)	MC	M3AAA-2418R-ND	5.22	39.57
	Au 30µ"	18 (45.72)	GR	M3AAK-2418J-ND	11.48	87.05
	Au 15µ"	18 (45.72)	GR	M3AAA-2418J-ND	4.35	33.00
	Au 30µ"	36 (91.44)	MC	M3AAK-2436R-ND	14.28	108.27
	Au 15µ"	36 (91.44)	MC	M3AAA-2436R-ND	7.15	54.22
	Au 30µ"	36 (91.44)	GR	M3AAK-2436J-ND	12.55	95.14
	Au 15µ"	36 (91.44)	GR	M3AAA-2436J-ND	5.42	41.09
26	Au 30µ"	6 (15.24)	MC	M3AAK-2606R-ND	11.92	90.36
	Au 15µ"	6 (15.24)	MC	M3AAA-2606R-ND	3.24	24.56
	Au 30µ"	6 (15.24)	GR	M3AAK-2606J-ND	11.61	88.00
	Au 15µ"	6 (15.24)	GR	M3AAA-2606J-ND	2.93	22.20
	Au 30µ"	18 (45.72)	MC	M3AAK-2618R-ND	13.32	100.95
	Au 15µ"	18 (45.72)	MC	M3AAA-2618R-ND	4.64	35.15
	Au 30µ"	18 (45.72)	GR	M3AAK-2618J-ND	12.38	93.85
	Au 15µ"	18 (45.72)	GR	M3AAA-2618J-ND	3.70	28.05
	Au 30µ"	36 (91.44)	MC	M3AAK-2636R-ND	15.41	116.83
	Au 15µ"	36 (91.44)	MC	M3AAA-2636R-ND	6.73	51.03
	Au 30µ"	36 (91.44)	GR	M3AAK-2636J-ND	13.54	102.62
	Au 15µ"	36 (91.44)	GR	M3AAA-2636J-ND	4.86	36.82
30	Au 30µ"	6 (15.24)	MC	M3AAK-3006R-ND	13.81	104.68
	Au 15µ"	6 (15.24)	MC	M3AAA-3006R-ND	3.95	29.95
	Au 30µ"	6 (15.24)	GR	M3AAK-3006J-ND	13.40	101.59
	Au 15µ"	6 (15.24)	GR	M3AAA-3006J-ND	3.54	26.86
	Au 30µ"	18 (45.72)	MC	M3AAK-3018R-ND	15.64	118.52
	Au 15µ"	18 (45.72)	MC	M3AAA-3018R-ND	5.78	43.79
	Au 30µ"	18 (45.72)	GR	M3AAK-3018J-ND	14.41	109.26
	Au 15µ"	18 (45.72)	GR	M3AAA-3018J-ND	4.55	34.53
	Au 30µ"	36 (91.44)	MC	M3AAK-3036R-ND	18.37	139.29
	Au 15µ"	36 (91.44)	MC	M3AAA-3036R-ND	8.52	64.56
	Au 30µ"	36 (91.44)	GR	M3AAK-3036J-ND	15.93	120.75
	Au 15µ"	36 (91.44)	GR	M3AAA-3036J-ND	6.07	46.02
34	Au 30µ"	6 (15.24)	MC	M3AAK-3406R-ND	15.55	117.84
	Au 15µ"	6 (15.24)	MC	M3AAA-3406R-ND	3.77	28.54
	Au 30µ"	6 (15.24)	GR	M3AAK-3406J-ND	15.14	114.75
	Au 15µ"	6 (15.24)	GR	M3AAA-3406J-ND	3.36	25.45
	Au 30µ"	18 (45.72)	MC	M3AAK-3418R-ND	17.37	131.68
	Au 15µ"	18 (45.72)	MC	M3AAA-3418R-ND	5.59	42.38
	Au 30µ"	18 (45.72)	GR	M3AAK-3418J-ND	16.15	122.42
	Au 15µ"	18 (45.72)	GR	M3AAA-3418J-ND	4.37	33.12
	Au 30µ"	36 (91.44)	MC	M3AAK-3436R-ND	20.11	152.45
	Au 15µ"	36 (91.44)	MC	M3AAA-3436R-ND	8.33	63.15
	Au 30µ"	36 (91.44)	GR	M3AAK-3436J-ND	17.67	133.91
	Au 15µ"	36 (91.44)	GR	M3AAA-3436J-ND	5.89	44.61
40	Au 30µ"	6 (15.24)	MC	M3AAK-4006R-ND	18.25	138.33
	Au 15µ"	6 (15.24)	MC	M3AAA-4006R-ND	4.92	37.28
	Au 30µ"	6 (15.24)	GR	M3AAK-4006J-ND	17.77	134.70
	Au 15µ"	6 (15.24)	GR	M3AAA-4006J-ND	4.44	33.65
	Au 30µ"	18 (45.72)	MC	M3AAK-4018R-ND	20.40	154.62
	Au 15µ"	18 (45.72)	MC	M3AAA-4018R-ND	7.07	53.57
	Au 30µ"	18 (45.72)	GR	M3AAK-4018J-ND	18.96	143.72
	Au 15µ"	18 (45.72)	GR	M3AAA-4018J-ND	5.63	42.67
	Au 30µ"	36 (91.44)	MC	M3AAK-4036R-ND	23.62	179.05
	Au 15µ"	36 (91.44)	MC	M3AAA-4036R-ND	10.29	78.00
	Au 30µ"	36 (91.44)	GR	M3AAK-4036J-ND	20.74	157.25
	Au 15µ"	36 (91.44)	GR	M3AAA-4036J-ND	7.41	56.20
50	Au 30µ"	6 (15.24)	MC	M3AAK-5006R-ND	22.79	172.80
	Au 15µ"	6 (15.24)	MC	M3AAA-5006R-ND	5.50	41.67
	Au 30µ"	6 (15.24)	GR	M3AAK-5006J-ND	22.20	168.26
	Au 15µ"	6 (15.24)	GR	M3AAA-5006J-ND	4.90	37.13
	Au 30µ"	18 (45.72)	MC	M3AAK-5018R-ND	25.48	193.16
	Au 15µ"	18 (45.72)	MC	M3AAA-5018R-ND	8.18	62.03
	Au 30µ"	18 (45.72)	GR	M3AAK-5018J-ND	23.68	179.54
	Au 15µ"	18 (45.72)	GR	M3AAA-5018J-ND	6.39	48.41
	Au 30µ"	36 (91.44)	MC	M3AAK-5036R-ND	29.51	223.69
	Au 15µ"	36 (91.44)	MC	M3AAA-5036R-ND	12.21	92.56
	Au 30µ"	36 (91.44)	GR	M3AAK-5036J-ND	25.92	196.47
	Au 15µ"	36 (91.44)	GR	M3AAA-5036J-ND	8.62	65.34
60	Au 30µ"	6 (15.24)	MC	M3AAK-6006R-ND	28.21	213.84
	Au 15µ"	6 (15.24)	MC	M3AAA-6006R-ND	5.89	44.64
	Au 30µ"	6 (15.24)	GR	M3AAK-6006J-ND	27.49	208.39
	Au 15µ"	6 (15.24)	GR	M3AAA-6006J-ND	5.17	39.19
	Au 30µ"	18 (45.72)	MC	M3AAK-6018R-ND	31.43	238.27
	Au 15µ"	18 (45.72)	MC	M3AAA-6018R-ND	9.11	69.07
	Au 30µ"	18 (45.72)	GR	M3AAK-6018J-ND	29.27	221.92
	Au 15µ"	18 (45.72)	GR	M3AAA-6018J-ND	6.95	52.72
	Au 30µ"	36 (91.44)	MC	M3AAK-6036R-ND	36.27	274.91
	Au 15µ"	36 (91.44)	MC	M3AAA-6036R-ND	13.95	105.71
	Au 30µ"	36 (91.44)	GR	M3AAK-6036J-ND	31.95	242.20
	Au 15µ"	36 (91.44)	GR	M3AAA-6036J-ND	9.63	73.00

Also available in the following configurations:
M3BB☐-☐☐☐☐☐-ND – Standard Open End with Strain Relief
M3CC☐-☐☐☐☐☐-ND – Standard Open End with Polarizing Key
M3DD☐-☐☐☐☐☐-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-☐☐☐☐☐-ND – Standard Closed End with Polarizing Key
M3UUK-☐☐☐☐☐-ND – Standard Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket to Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	20 (50.80)	TW	M3AAK-1020K-ND	7.19	54.53
	Au 15µ"	20 (50.80)	TW	M3AAA-1020K-ND	3.16	23.98
	Au 30µ"	40 (101.60)	TW	M3AAK-1040K-ND	8.43	63.94
	Au 15µ"	40 (101.60)	TW	M3AAA-1040K-ND	4.40	33.39
	Au 30µ"	60 (152.40)	TW	M3AAK-1060K-ND	9.68	73.35
	Au 15µ"	60 (152.40)	TW	M3AAA-1060K-ND	5.65	42.80
14	Au 30µ"	20 (50.80)	TW	M3AAK-1420K-ND	8.93	67.69
	Au 15µ"	20 (50.80)	TW	M3AAA-1420K-ND	3.72	28.21
	Au 30µ"	40 (101.60)	TW	M3AAK-1440K-ND	10.67	80.86
	Au 15µ"	40 (101.60)	TW	M3AAA-1440K-ND	5.46	41.38
	Au 30µ"	60 (152.40)	TW	M3AAK-1460K-ND	12.40	94.04
	Au 15µ"	60 (152.40)	TW	M3AAA-1460K-ND	7.20	54.56
16	Au 30µ"	20 (50.80)	TW	M3AAK-1620K-ND	9.86	74.75
	Au 15µ"	20 (50.80)	TW	M3AAA-1620K-ND	4.03	30.57
	Au 30µ"	40 (101.60)	TW	M3AAK-1640K-ND	11.85	89.80
	Au 15µ"	40 (101.60)	TW	M3AAA-1640K-ND	6.02	45.62
	Au 30µ"	60 (152.40)	TW	M3AAK-1660K-ND	13.83	104.86
	Au 15µ"	60 (152.40)	TW	M3AAA-1660K-ND	8.00	60.68
20	Au 30µ"	20 (50.80)	TW	M3AAK-2020K-ND	11.16	84.62
	Au 15µ"	20 (50.80)	TW	M3AAA-2020K-ND	4.71	35.74
	Au 30µ"	40 (101.60)	TW	M3AAK-2040K-ND	13.64	103.44
	Au 15µ"	40 (101.60)	TW	M3AAA-2040K-ND	7.20	54.56
	Au 30µ"	60 (152.40)	TW	M3AAK-2060K-ND	16.13	122.26
	Au 15µ"	60 (152.40)	TW	M3AAA-2060K-ND	9.68	73.38
26	Au 30µ"	20 (50.80)	TW	M3AAK-2620K-ND	14.45	109.54
	Au 15µ"	20 (50.80)	TW	M3AAA-2620K-ND	5.77	43.74
	Au 30µ"	40 (101.60)	TW	M3AAK-2640K-ND	17.68	134.00
	Au 15µ"	40 (101.60)	TW	M3AAA-2640K-ND	9.00	68.20
	Au 30µ"	60 (152.40)	TW	M3AAK-2660K-ND	20.90	158.47
	Au 15µ"	60 (152.40)	TW	M3AAA-2660K-ND	12.22	92.67
34	Au 30µ"	20 (50.80)	TW	M3AAK-3420K-ND	18.85	142.91
	Au 15µ"	20 (50.80)	TW	M3AAA-3420K-ND	7.07	53.61
	Au 30µ"	40 (101.60)	TW	M3AAK-3440K-ND	23.07	174.90
	Au 15µ"	40 (101.60)	TW	M3AAA-3440K-ND	11.29	85.60
	Au 30µ"	60 (152.40)	TW	M3AAK-3460K-ND	27.29	206.89
	Au 15µ"	60 (152.40)	TW	M3AAA-3460K-ND	15.51	117.59
40	Au 30µ"	20 (50.80)	TW	M3AAK-4020K-ND	22.14	167.83
	Au 15µ"	20 (50.80)	TW	M3AAA-4020K-ND	8.81	66.78
	Au 30µ"	40 (101.60)	TW	M3AAK-4040K-ND	27.10	205.47
	Au 15µ"	40 (101.60)	TW	M3AAA-4040K-ND	13.77	104.42
	Au 30µ"	60 (152.40)	TW	M3AAK-4060K-ND	32.07	243.10
	Au 15µ"	60 (152.40)	TW	M3AAA-4060K-ND	18.74	142.05
50	Au 30µ"	20 (50.80)	TW	M3AAK-5020K-ND	27.66	209.67
	Au 15µ"	20 (50.80)	TW	M3AAA-5020K-ND	10.36	78.54
	Au 30µ"	40 (101.60)	TW	M3AAK-5040K-ND	33.86	256.71
	Au 15µ"	40 (101.60)	TW	M3AAA-5040K-ND	16.57	125.58
	Au 30µ"	60 (152.40)	TW	M3AAK-5060K-ND	40.07	303.76
	Au 15µ"	60 (152.40)	TW	M3AAA-5060K-ND	22.77	172.63
60	Au 30µ"	20 (50.80)	TW	M3AAK-6020K-ND	34.05	258.09
	Au 15µ"	20 (50.80)	TW	M3AAA-6020K-ND	11.73	88.89
	Au 30µ"	40 (101.60)	TW	M3AAK-6040K-ND	41.49	314.54
	Au 15µ"	40 (101.60)	TW	M3AAA-6040K-ND	19.17	145.34
	Au 30µ"	60 (152.40)	TW	M3AAK-6060K-ND	48.94	371.00
	Au 15µ"	60 (152.40)	TW	M3AAA-6060K-ND	26.62	201.80

Also available in the following configurations:
M3BB☐-☐☐☐☐K-ND – Standard Open End with Strain Relief
M3CC☐-☐☐☐☐K-ND – Standard Open End with Polarizing Key
M3DD☐-☐☐☐☐K-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-☐☐☐☐K-ND – Standard Closed End with Polarizing Key
M3UUK-☐☐☐☐K-ND – Std. Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector to Plug Connector

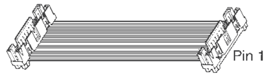

*MC = 3M Multi-Color, GR = 3M Gray
Pin connector without flange, with polarizing key shown.
*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	6 (15.24)	MC	M3KKK-1006R-ND	9.07	68.78
	Au 30µ"	6 (15.24)	GR	M3KKK-1006J-ND	8.98	68.07
	Au 30µ"	18 (45.72)	MC	M3KKK-1018R-ND	9.61	72.85
	Au 30µ"	18 (45.72)	GR	M3KKK-1018J-ND	9.33	70.72
	Au 30µ"	36 (91.44)	MC	M3KKK-1036R-ND	10.42	78.96
	Au 30µ"	36 (91.44)	GR	M3KKK-1036J-ND	9.85	74.69
14	Au 30µ"	6 (15.24)	MC	M3KKK-1406R-ND	12.59	95.44
	Au 30µ"	6 (15.24)	GR	M3KKK-1406J-ND	12.44	94.28
	Au 30µ"	18 (45.72)	MC	M3KKK-1418R-ND	13.34	101.14
	Au 30µ"	18 (45.72)	GR	M3KKK-1418J-ND	12.88	97.66
	Au 30µ"	36 (91.44)	MC	M3KKK-1436R-ND	14.47	109.69
	Au 30µ"	36 (91.44)	GR	M3KKK-1436J-ND	13.55	102.73
16	Au 30µ"	6 (15.24)	MC	M3KKK-1606R-ND	14.26	108.07
	Au 30µ"	6 (15.24)	GR	M3KKK-1606J-ND	14.07	106.68
	Au 30µ"	18 (45.72)	MC	M3KKK-1618R-ND	15.11	114.58
	Au 30µ"	18 (45.72)	GR	M3KKK-1618J-ND	14.57	110.42
	Au 30µ"	36 (91.44)	MC	M3KKK-1636R-ND	16.40	124.35
	Au 30µ"	36 (91.44)	GR	M3KKK-1636J-ND	15.31	116.04
20	Au 30µ"	6 (15.24)	MC	M3KKK-2006R-ND	16.66	126.27
	Au 30µ"	6 (15.24)	GR	M3KKK-2006J-ND	16.41	124.44
	Au 30µ"	18 (45.72)	MC	M3KKK-2018R-ND	17.73	134.41
	Au 30µ"	18 (45.72)	GR	M3KKK-2018J-ND	17.00	128.91
	Au 30µ"	36 (91.44)	MC	M3KKK-2036R-ND	19.34	146.63
	Au 30µ"	36 (91.44)	GR	M3KKK-2036J-ND	17.89	135.61
24	Au 30µ"	6 (15.24)	MC	M3KKK-2406R-ND	18.38	139.31
	Au 30µ"	6 (15.24)	GR	M3KKK-2406J-ND	18.09	137.12
	Au 30µ"	18 (45.72)	MC	M3KKK-2418R-ND	19.67	149.08
	Au 30µ"	18 (45.72)	GR	M3KKK-2418J-ND	18.80	142.51
	Au 30µ"	36 (91.44)	MC	M3KKK-2436R-ND	21.60	163.73
	Au 30µ"	36 (91.44)	GR	M3KKK-2436J-ND	19.87	150.60
26	Au 30µ"	6 (15.24)	MC	M3KKK-2606R-ND	19.05	144.41
	Au 30µ"	6 (15.24)	GR	M3KKK-2606J-ND	18.74	142.05
	Au 30µ"	18 (45.72)	MC	M3KKK-2618R-ND	20.45	155.00
	Au 30µ"	18 (45.72)	GR	M3KKK-2618J-ND	19.51	147.90
	Au 30µ"	36 (91.44)	MC	M3KKK-2636R-ND	22.54	170.88
	Au 30µ"	36 (91.44)	GR	M3KKK-2636J-ND	20.67	156.67
30	Au 30µ"	6 (15.24)	MC	M3KKK-3006R-ND	21.06	159.67
	Au 30µ"	6 (15.24)	GR	M3KKK-3006J-ND	20.66	156.58
	Au 30µ"	18 (45.72)	MC	M3KKK-3018R-ND	22.89	173.51
	Au 30µ"	18 (45.72)	GR	M3KKK-3018J-ND	21.67	164.25
	Au 30µ"	36 (91.44)	MC	M3KKK-3036R-ND	25.63	194.28
	Au 30µ"	36 (91.44)	GR	M3KKK-3036J-ND	23.18	175.74
34	Au 30µ"	6 (15.24)	MC	M3KKK-3406R-ND	23.67	179.41
	Au 30µ"	6 (15.24)	GR	M3KKK-3406J-ND	23.26	176.32
	Au 30µ"	18 (45.72)	MC	M3KKK-3418R-ND	25.49	193.25
	Au 30µ"	18 (45.72)	GR	M3KKK-3418J-ND	24.27	183.99
	Au 30µ"	36 (91.44)	MC	M3KKK-3436R-ND	28.23	214.02
	Au 30µ"	36 (91.44)	GR	M3KKK-3436J-ND	25.79	195.48
36	Au 30µ"	6 (15.24)	MC	M3KKK-3606R-ND	25.05	189.89
	Au 30µ"	6 (15.24)	GR	M3KKK-3606J-ND	24.61	186.53
	Au 30µ"	18 (45.72)	MC	M3KKK-3618R-ND	27.04	204.96
	Au 30µ"	18 (45.72)	GR	M3KKK-3618J-ND	25.71	194.87
	Au 30µ"	36 (91.44)	MC	M3KKK-3636R-ND	30.02	227.55
	Au 30µ"	36 (91.44)	GR	M3KKK-3636J-ND	27.36	207.38
40	Au 30µ"	6 (15.24)	MC	M3KKK-4006R-ND	26.31	199.43
	Au 30µ"	6 (15.24)	GR	M3KKK-4006J-ND	25.83	195.80
	Au 30µ"	18 (45.72)	MC	M3KKK-4018R-ND	28.46	215.72
	Au 30µ"	18 (45.72)	GR	M3KKK-4018J-ND	27.02	204.82
	Au 30µ"	36 (91.44)	MC	M3KKK-4036R-ND	31.68	240.15
	Au 30µ"	36 (91.44)	GR	M3KKK-4036J-ND	28.80	218.35
50	Au 30µ"	6 (15.24)	MC	M3KKK-5006R-ND	28.68	217.45
	Au 30µ"	6 (15.24)	GR	M3KKK-5006J-ND	28.09	212.91
	Au 30µ"	18 (45.72)	MC	M3KKK-5018R-ND	31.37	237.81
	Au 30µ"	18 (45.72)	GR	M3KKK-5018J-ND	29.57	224.19
	Au 30µ"	36 (91.44)	MC	M3KKK-5036R-ND	35.40	268.34
	Au 30µ"	36 (91.44)	GR	M3KKK-5036J-ND	31.81	241.12
60	Au 30µ"	6 (15.24)	MC	M3KKK-6006R-ND	33.85	256.61
	Au 30µ"	6 (15.24)	GR	M3KKK-6006J-ND	33.13	251.16
	Au 30µ"	18 (45.72)	MC	M3KKK-6018R-ND	37.07	281.04
	Au 30µ"	18 (45.72)	GR	M3KKK-6018J-ND	34.92	264.69
	Au 30µ"	36 (91.44)	MC	M3KKK-6036R-ND	41.91	317.68
	Au 30µ"	36 (91.44)	GR	M3KKK-6036J-ND	37.59	284.97
64	Au 30µ"	6 (15.24)	MC	M3KKK-6406R-ND	36.13	273.88
	Au 30µ"	6 (15.24)	GR	M3KKK-6406J-ND	35.36	268.06
	Au 30µ"	18 (45.72)	MC	M3KKK-6418R-ND	39.57	299.94
	Au 30µ"	18 (45.72)	GR	M3KKK-6418J-ND	37.26	282.48
	Au 30µ"	36 (91.44)	MC	M3KKK-6436R-ND	44.72	339.02
	Au 30µ"	36 (91.44)	GR	M3KKK-6436J-ND	40.12	304.10
10	Au 30µ"	20 (50.80)	TW	M3KKK-1020K-ND	10.05	76.15
	Au 30µ"	40 (101.60)	TW	M3KKK-1040K-ND	11.29	85.56
14	Au 30µ"	20 (50.80)	TW	M3KKK-1420K-ND	13.95	105.76
	Au 30µ"	40 (101.60)	TW	M3KKK-1440K-ND	15.69	118.93
16	Au 30µ"	20 (50.80)	TW	M3KKK-1620K-ND	15.81	119.87
	Au 30µ"	40 (101.60)	TW	M3KKK-1640K-ND	17.80	134.92
20	Au 30µ"	20 (50.80)	TW	M3KKK-2020K-ND	18.60	141.02
	Au 30µ"	40 (101.60)	TW	M3KKK-2040K-ND	21.08	159.84
26	Au 30µ"	20 (50.80)	TW	M3KKK-2620K-ND	21.58	163.59
	Au 30µ"	40 (101.60)	TW	M3KKK-2640K-ND	24.81	188.05
34	Au 30µ"	20 (50.80)	TW	M3KKK-3420K-ND	26.97	204.48
	Au 30µ"	40 (101.60)	TW	M3KKK-3440K-ND	31.19	236.47
40	Au 30µ"	20 (50.80)	TW	M3KKK-4020K-ND	30.20	228.93
	Au 30µ"	40 (101.60)	TW	M3KKK-4040K-ND	35.16	266.57
50	Au 30µ"	20 (50.80)	TW	M3KKK-5020K-ND	33.55	254.32
	Au 30µ"	40 (101.60)	TW	M3KKK-5040K-ND	39.75	301.36
60	Au 30µ"	20 (50.80)	TW	M3KKK-6020K-ND	39.69	300.86
	Au 30µ"	40 (101.60)	TW	M3KKK-6040K-ND	47.13	357.31
64	Au 30µ"	20 (50.80)	TW	M3KKK-6420K-ND	42.35	321.07
	Au 30µ"	40 (101.60)	TW	M3KKK-6440K-ND	50.30	381.29

Also available in the following configurations:

M3RRK-☐☐☐☐☐-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M3WWK-☐☐☐☐☐-ND – Pin Connector with Flange, with Polarizing Key
M3YYK-☐☐☐☐☐-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket Connector to Plug Connector

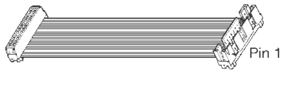

Pin connector without flange, with polarizing key, and socket connector without strain relief shown.

*MC = 3M Multi-Color, GR = 3M Gray

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	6 (15.24)	MC	M3AKK-1006R-ND	7.65	57.97
	Au 30µ"	6 (15.24)	GR	M3AKK-1006J-ND	7.55	57.26
	Au 30µ"	18 (45.72)	MC	M3AKK-1018R-ND	8.18	62.04
	Au 30µ"	18 (45.72)	GR	M3AKK-1018J-ND	7.90	59.91
	Au 30µ"	36 (91.44)	MC	M3AKK-1036R-ND	8.99	68.15
	Au 30µ"	36 (91.44)	GR	M3AKK-1036J-ND	8.43	63.88

(Continued)

3M Termination Jumpers

Socket Connector to Plug Connector *(Cont.)*

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
16	Au 30µ"	6 (15.24)	MC	M3AKK-1606R-ND	11.28	85.51
	Au 30µ"	6 (15.24)	GR	M3AKK-1606J-ND	11.10	84.12
	Au 30µ"	18 (45.72)	MC	M3AKK-1618R-ND	12.14	92.02
	Au 30µ"	18 (45.72)	GR	M3AKK-1618J-ND	11.59	87.86
	Au 30µ"	36 (91.44)	MC	M3AKK-1636R-ND	13.43	101.79
	Au 30µ"	36 (91.44)	GR	M3AKK-1636J-ND	12.33	93.48
20	Au 30µ"	6 (15.24)	MC	M3AKK-2006R-ND	12.94	98.07
	Au 30µ"	6 (15.24)	GR	M3AKK-2006J-ND	12.69	96.24
	Au 30µ"	18 (45.72)	MC	M3AKK-2018R-ND	14.01	106.21
	Au 30µ"	18 (45.72)	GR	M3AKK-2018J-ND	13.28	100.71
	Au 30µ"	36 (91.44)	MC	M3AKK-2036R-ND	15.62	118.43
	Au 30µ"	36 (91.44)	GR	M3AKK-2036J-ND	14.17	107.41
24	Au 30µ"	6 (15.24)	MC	M3AKK-2406R-ND	14.72	111.58
	Au 30µ"	6 (15.24)	GR	M3AKK-2406J-ND	14.43	109.39
	Au 30µ"	18 (45.72)	MC	M3AKK-2418R-ND	16.01	121.35
	Au 30µ"	18 (45.72)	GR	M3AKK-2418J-ND	15.14	114.78
	Au 30µ"	36 (91.44)	MC	M3AKK-2436R-ND	17.94	136.00
	Au 30µ"	36 (91.44)	GR	M3AKK-2436J-ND	16.21	122.87
26	Au 30µ"	6 (15.24)	MC	M3AKK-2606R-ND	15.49	117.39
	Au 30µ"	6 (15.24)	GR	M3AKK-2606J-ND	15.17	115.02
	Au 30µ"	18 (45.72)	MC	M3AKK-2618R-ND	16.88	127.97
	Au 30µ"	18 (45.72)	GR	M3AKK-2618J-ND	15.94	120.87
	Au 30µ"	36 (91.44)	MC	M3AKK-2636R-ND	18.98	143.85
	Au 30µ"	36 (91.44)	GR	M3AKK-2636J-ND	17.10	129.65
30	Au 30µ"	6 (15.24)	MC	M3AKK-3006R-ND	17.44	132.18
	Au 30µ"	6 (15.24)	GR	M3AKK-3006J-ND	17.03	129.09
	Au 30µ"	18 (45.72)	MC	M3AKK-3018R-ND	19.26	146.02
	Au 30µ"	18 (45.72)	GR	M3AKK-3018J-ND	18.04	136.75
	Au 30µ"	36 (91.44)	MC	M3AKK-3036R-ND	22.00	166.78
	Au 30µ"	36 (91.44)	GR	M3AKK-3036J-ND	19.56	148.25
34	Au 30µ"	6 (15.24)	MC	M3AKK-3406R-ND	19.61	148.63
	Au 30µ"	6 (15.24)	GR	M3AKK-3406J-ND	19.20	145.54
	Au 30µ"	18 (45.72)	MC	M3AKK-3418R-ND	21.43	162.47
	Au 30µ"	18 (45.72)	GR	M3AKK-3418J-ND	20.21	153.20
	Au 30µ"	36 (91.44)	MC	M3AKK-3436R-ND	24.17	183.23
	Au 30µ"	36 (91.44)	GR	M3AKK-3436J-ND	21.73	164.70
40	Au 30µ"	6 (15.24)	MC	M3AKK-4006R-ND	22.28	168.88
	Au 30µ"	6 (15.24)	GR	M3AKK-4006J-ND	21.80	165.25
	Au 30µ"	18 (45.72)	MC	M3AKK-4018R-ND	24.43	185.17
	Au 30µ"	18 (45.72)	GR	M3AKK-4018J-ND	22.99	174.27
	Au 30µ"	36 (91.44)	MC	M3AKK-4036R-ND	27.65	209.60
	Au 30µ"	36 (91.44)	GR	M3AKK-4036J-ND	24.77	187.80
50	Au 30µ"	6 (15.24)	MC	M3AKK-5006R-ND	25.74	195.12
	Au 30µ"	6 (15.24)	GR	M3AKK-5006J-ND	25.14	190.59
	Au 30µ"	18 (45.72)	MC	M3AKK-5018R-ND	28.43	215.48
	Au 30µ"	18 (45.72)	GR	M3AKK-5018J-ND	26.63	201.87
	Au 30µ"	36 (91.44)	MC	M3AKK-5036R-ND	32.45	246.02
	Au 30µ"	36 (91.44)	GR	M3AKK-5036J-ND	28.86	218.79
60	Au 30µ"	6 (15.24)	MC	M3AKK-6006R-ND	31.03	235.23
	Au 30µ"	6 (15.24)	GR	M3AKK-6006J-ND	30.31	229.78
	Au 30µ"	18 (45.72)	MC	M3AKK-6018R-ND	34.25	259.66
	Au 30µ"	18 (45.72)	GR	M3AKK-6018J-ND	32.10	243.30
	Au 30µ"	36 (91.44)	MC	M3AKK-6036R-ND	39.09	296.30
	Au 30µ"	36 (91.44)	GR	M3AKK-6036J-ND	34.77	263.59

Also available in the following configurations:
M3AWK-□□□□□-ND – Socket Connector Standard; Pin Connector with Flange, with Polarizing Key
M3BRK-□□□□□-ND – Socket Connector with SR; Pin Connector without Flange, with Polarizing Key and Strain Relief
M3BYK-□□□□□-ND – Socket Connector with Strain Relief; Pin Connector with Flange, with Polarizing Key and Strain Relief
M3CKK-□□□□□-ND – Socket Connector Open with Polarizing Key
M3CWK-□□□□□-ND – Socket Connector with Polarizing Key; Pin Connector with Flange, with Polarizing Key
M3DRK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector without Flange, with PK and SR
M3DYK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector with Flange, with Polarizing Key and SR
M3TKK-□□□□□-ND – Socket Connector Closed with Polarizing Key
M3URK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector without Flange, with PK and SR
M3UYK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector with Flange, with PK and Strain Relief
Call for complete part number and pricing!

Socket Connector to Plug Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	20 (50.80)	TW	M3AKK-1020K-ND	8.62	65.34
	Au 30µ"	40 (101.60)	TW	M3AKK-1040K-ND	9.86	74.75
	Au 30µ"	60 (152.40)	TW	M3AKK-1060K-ND	11.10	84.16
16	Au 30µ"	20 (50.80)	TW	M3AKK-1620K-ND	12.84	97.31
	Au 30µ"	40 (101.60)	TW	M3AKK-1640K-ND	14.82	112.36
	Au 30µ"	60 (152.40)	TW	M3AKK-1660K-ND	16.81	127.42
20	Au 30µ"	20 (50.80)	TW	M3AKK-2020K-ND	14.88	112.82
	Au 30µ"	40 (101.60)	TW	M3AKK-2040K-ND	17.36	131.64
	Au 30µ"	60 (152.40)	TW	M3AKK-2060K-ND	19.85	150.46
26	Au 30µ"	20 (50.80)	TW	M3AKK-2620K-ND	18.01	136.56
	Au 30µ"	40 (101.60)	TW	M3AKK-2640K-ND	21.24	161.03
	Au 30µ"	60 (152.40)	TW	M3AKK-2660K-ND	24.47	185.49
34	Au 30µ"	20 (50.80)	TW	M3AKK-3420K-ND	22.91	173.70
	Au 30µ"	40 (101.60)	TW	M3AKK-3440K-ND	27.13	205.69
	Au 30µ"	60 (152.40)	TW	M3AKK-3460K-ND	31.35	237.68
40	Au 30µ"	20 (50.80)	TW	M3AKK-4020K-ND	26.17	198.38
	Au 30µ"	40 (101.60)	TW	M3AKK-4040K-ND	31.13	236.02
	Au 30µ"	60 (152.40)	TW	M3AKK-4060K-ND	36.10	273.65
50	Au 30µ"	20 (50.80)	TW	M3AKK-5020K-ND	30.60	231.99
	Au 30µ"	40 (101.60)	TW	M3AKK-5040K-ND	36.81	279.04
	Au 30µ"	60 (152.40)	TW	M3AKK-5060K-ND	43.02	326.09
60	Au 30µ"	20 (50.80)	TW	M3AKK-6020K-ND	36.87	279.47
	Au 30µ"	40 (101.60)	TW	M3AKK-6040K-ND	44.31	335.93
	Au 30µ"	60 (152.40)	TW	M3AKK-6060K-ND	51.76	392.38

Also available in the following configurations:
M3AWK-□□□□K-ND – Socket Connector/Pin Connector w/ Flange w/ PK.
M3BRK-□□□□K-ND – Socket Connector with SR, Pin Connector without Flange with PK and SR.
M3BYK-□□□□K-ND – Socket Connector with SR, Pin Connector with Flange with PK and SR.
M3CKK-□□□□K-ND – Socket Connector with PK, Pin Connector without Flange with PK.
M3CWK-□□□□K-ND – Socket Connector with PK, Pin Connector with Flange with PK.
M3DRK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3DYK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
M3TKK-□□□□K-ND – Closed End Socket Connector with PK, Pin Connector without Flange with PK.
M3URK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3UYK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
Call for complete part number and pricing!

M□□□□-□□□□□-ND

Style
1□□ Single Ended
3□□ Double Ended

Conn. Finish
G = Gold ≤15µ
K = Gold >15µ Gold- Copper beryllium pin plating

No. Of Contacts

Length *(Use "Inches" only.)*

Ribbon Cable
R=Multi-color
J=Gray
K=Twisted Pair

3M Delta Flat Ribbon Cable Connectors

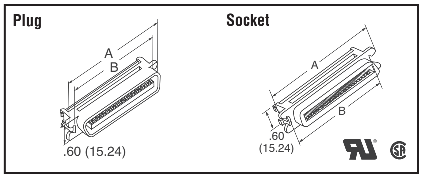

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ" gold

Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x109 Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971. 3 mounting designs available.

Those with **Prefix MDA** on Digi-Key part number: combination mount, which is a universal mount type that accepts both bail and screw mount hardware.

Prefix MDC: bail mount, which can be used as a standard I/O connector for various electronic applications; positive latching and easy disconnect.

Prefix MDB: screw mount, which have #4-40 threaded insert that simplifies mounting when a more permanent connection is desired.

Wire Accommodation: 26-30AWG stranded

No. of Cont.	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Plugs						
14	1.75 (44.45)	1.42 (36.07)	MDA14K-ND	14.48	109.75	3572-1000
	1.58 (40.13)	1.20 (30.48)	MDC14K-ND	15.75	119.38	3572-1001
24	2.17 (55.12)	1.84 (46.74)	MDA24K-ND	15.28	115.86	3548-1000
	2.00 (50.80)	1.63 (41.40)	MDC24K-ND	16.06	121.73	3548-1001
	2.17 (55.12)	1.84 (46.74)	MDB24K-ND	18.48	140.06	3548-1002
36	2.68 (68.07)	2.35 (59.69)	MDA36K-ND	16.00	121.26	3366-1000
	2.52 (64.01)	2.14 (54.36)	MDC36K-ND	16.24	123.14	3366-1001
50	3.27 (83.06)	2.95 (74.93)	MDA50K-ND	16.59	125.73	3564-1000
	3.11 (78.99)	2.73 (69.34)	MDC50K-ND	17.11	129.72	3564-1001
	3.27 (83.06)	2.95 (74.93)	MDB50K-ND	19.56	148.29	3564-1002
Sockets						
14	1.58 (40.13)	1.20 (30.48)	MDF14K-ND	15.75	119.38	3573-1001
24	2.17 (55.12)	1.84 (46.74)	MDD24K-ND	15.28	115.86	3549-1000
	2.17 (55.12)	1.84 (46.74)	MDE24K-ND	16.34	123.85	3549-1002
36	2.68 (68.07)	2.35 (59.69)	MDD36K-ND	16.00	121.26	3367-1000
	2.52 (64.01)	2.14 (54.36)	MDF36K-ND	16.24	123.14	3367-1001
	2.68 (68.07)	2.35 (59.69)	MDE36K-ND	18.48	140.06	3367-1002
50	3.27 (83.06)	2.95 (74.93)	MDD50K-ND	16.59	125.73	3565-1000
	3.27 (83.06)	2.95 (74.93)	MDE50K-ND	19.56	148.29	3565-1002

No. of Cont.	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Backshells						
50	—	—	MDBF50-ND	3.99	33.60	3485-2500
Metal Strain Reliefs						
14	—	—	MDSF14-ND	3.81	28.91	3448-60
24	—	—	MDSF24-ND	3.81	28.91	3448-61
36	—	—	MDSF36-ND	4.03	30.55	3448-62
50	—	—	MDSF50-ND	4.19	31.73	3448-63

3M .100" x .100" PCB Connectors

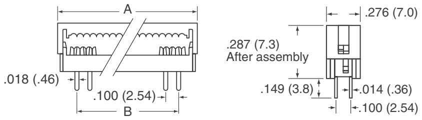

Series 78XX is a low cost, insulation displacement connector (IDC) designed for soldering of flat ribbon cable to a PC board.

Use with Wire Accommodations: 26AWG Stranded, 28AWG Solid or Stranded, 30AWG Solid.

Physical Specifications: • Insulation Material: Glass filled Polyester • Flammability Rating: UL94V-0 • Color: Gray

Electrical Specifications: • Current Rating: 1.0A • Withstanding Voltage: 1000VAC for 1 minute

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C

No. of Cont.	Dimensions – Inch (mm) A	Dimensions – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Gold Flash						
10	0.685 (17.4)	0.402 (10.2)	MDM10H-ND	3.07	23.27	7810-0006-PR
14	0.886 (22.5)	0.599 (15.2)	MDM14H-ND	3.44	26.09	7814-0006-PR
16	0.985 (25)	0.701 (17.8)	MDM16H-ND	3.50	26.56	7816-0006-PR
20	1.185 (30.1)	0.901 (22.9)	MDM20H-ND	3.47	26.32	7820-0006-PR
26	1.484 (37.7)	1.200 (30.5)	MDM26H-ND	4.31	32.67	7826-0006-PR
30	1.685 (42.8)	1.401 (35.6)	MDM30H-ND	4.65	35.25	7830-0006-PR
34	1.886 (47.9)	1.599 (40.6)	MDM34H-ND	4.62	35.02	7834-0006-PR
40	2.185 (55.5)	1.901 (48.3)	MDM40H-ND	5.49	41.60	7840-0006-PR
50	2.685 (68.2)	2.401 (61)	MDM50H-ND	6.45	48.88	7850-0006-PR
60	3.185 (80.9)	2.901 (73.7)	MDM60H-ND	7.07	53.58	7860-0006-PR
Tooling						
Bench Press Assembly Tool			3M9426-ND	451.13/1		3640
Cable Shear for 3640			3M9427-ND	1386.00/1		3320
Tool Platen Assembly			3M9433-ND	96.75/1		3442-9
Locator Plate 78XX Series			3M9444-ND	194.33/1		3443-71

3M PCB Cable Assemblies

Single Ended — Style 2

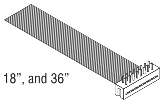

Connector Finish: Tin

Standard length for single ended assembly is 6", 18", and 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended — Style 6

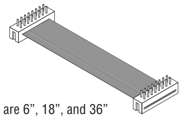

Connector Finish: Tin

Standard length for double ended assemblies are 6", 18", and 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended — Style 8

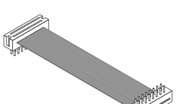

Connector Finish: Tin

Standard length for double ended assemblies are 6", 18", and 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

M□□□□-□□□□□-ND

Style
2MX=Single Ended
6MM=Double Ended
8MM=Double Ended

Contact Finish
H = Gold

No. of Contacts

Length
(***Use "Inches" only.***)

Ribbon Cable
R=Multi-Color
J=Gray

Call for complete part number and pricing

3M Latch/Eject Headers

.100” x .100” (2.54mm x 2.54mm)

Features: • Optional ejector latches (sold separately) • High temperature insulator option for “no lead” soldering operations **Electrical Specifications:** • Current Rating: 2A • Insulation Resistance: >1 x $10^9\Omega$ at 500VDC • Withstanding Voltage: 1000VRMS at Sea Level **Environmental Specifications**: • Temperature Rating: -55°C ~ 105°C • Process Rating: 260°C High temp. PCT insulator version: single pass (profile per J-STD-020C); PBT insulator version: Maximum insulator temperature 191°C (Solder wave process only)
Non-compliant Physical Specifications: • Insulator Material: Glass-filled polyester (PBT) • Underplating: nickel • Solder Tails: 200µ” Tin-lead over nickel
RoHS Compliant Physical Specifications: • Insulator Material: High Temperature glass filled polyester (PCT) • Solder Tails: 40 ~ 120µ” Matte tin

Right Angle Headers

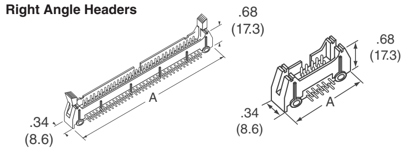

Straight Header

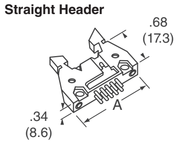

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
Right Angle, Black PCT – 30µ” Gold – without Latches — RoHS Compliant						
10	1.265 (32.13)	MHR10L-ND	1.16	88.48	400.40	N3793-5002RB
14	1.465 (37.21)	MHR14L-ND	1.60	121.66	550.55	N3314-5002RB
16	1.565 (39.75)	MHR16L-ND	1.85	140.62	636.35	N3408-5002RB
20	1.765 (44.83)	MHR20L-ND	2.27	172.22	779.35	N3428-5002RB
24	1.965 (49.91)	MHR24L-ND	2.72	206.98	936.65	N3627-5002RB
26	2.065 (52.45)	MHR26L-ND	2.93	222.78	1008.15	N3429-5002RB
30	2.265 (57.53)	MHR30L-ND	2.72	206.98	936.65	N3440-5002RB
34	2.465 (62.61)	MHR34L-ND	3.06	232.26	1051.05	N3431-5002RB
40	2.765 (70.23)	MHR40L-ND	3.62	274.92	1244.10	N3432-5002RB
50	3.265 (82.93)	MHR50L-ND	4.51	342.86	1551.55	N3433-5002RB
60	3.765 (95.63)	MHR60L-ND	5.43	412.38	1866.15	N3372-5002RB
NEW! Right Angle, Black PCT – 30µ” Gold – with Short Latches — RoHS Compliant NEW!						
10	1.265 (32.13)	MHR10S-ND	1.39	105.86	479.05	N3793-5202RB
14	1.465 (37.21)	MHR14S-ND	1.85	140.62	636.35	N3314-5202RB
16	1.565 (39.75)	MHR16S-ND	2.08	158.00	715.00	N3408-5202RB
20	1.765 (44.83)	MHR20S-ND	2.54	192.76	872.30	N3428-5202RB
24	1.965 (49.91)	MHR24S-ND	2.97	225.94	1022.45	N3627-5202RB
26	2.065 (52.45)	MHR26S-ND	3.22	244.90	1108.25	N3429-5202RB
30	2.265 (57.53)	MHR30S-ND	2.97	225.94	1022.45	N3440-5202RB
34	2.465 (62.61)	MHR34S-ND	3.33	252.80	1144.00	N3431-5202RB
40	2.765 (70.23)	MHR40S-ND	3.89	295.46	1337.05	N3432-5202RB
50	3.265 (82.93)	MHR50S-ND	4.78	363.40	1644.50	N3433-5202RB
60	3.765 (95.63)	MHR60S-ND	5.68	431.34	1951.95	N3372-5202RB
NEW! Right Angle, Black PCT – 30µ” Gold – with Long Latches — RoHS Compliant NEW!						
10	1.265 (32.13)	MHR10N-ND	1.39	105.86	479.05	N3793-5302RB
14	1.465 (37.21)	MHR14N-ND	1.85	140.62	636.35	N3314-5302RB
16	1.565 (39.75)	MHR16N-ND	2.08	158.00	715.00	N3408-5302RB
20	1.765 (44.83)	MHR20N-ND	2.54	192.76	872.30	N3428-5302RB
24	1.965 (49.91)	MHR24N-ND	2.97	225.94	1022.45	N3627-5302RB
26	2.065 (52.45)	MHR26N-ND	3.22	244.90	1108.25	N3429-5302RB
30	2.265 (57.53)	MHR30N-ND	2.97	225.94	1022.45	N3440-5302RB
34	2.465 (62.61)	MHR34N-ND	3.33	252.80	1144.00	N3431-5302RB
40	2.765 (70.23)	MHR40N-ND	3.89	295.46	1337.05	N3432-5302RB
50	3.265 (82.93)	MHR50N-ND	4.78	363.40	1644.50	N3433-5302RB
60	3.765 (95.63)	MHR60N-ND	5.68	431.34	1951.95	N3372-5302RB
Right Angle, Black PCT – 10µ” Gold – without Latches — RoHS Compliant						
10	1.265 (32.13)	MHR10E-ND	.77	58.46	264.55	D3793-5002-AR
14	1.465 (37.21)	MHR14E-ND	1.08	82.16	371.80	D3314-5002-AR
16	1.565 (39.75)	MHR16E-ND	1.25	94.80	429.00	D3408-5002-AR
20	1.765 (44.83)	MHR20E-ND	1.56	118.50	536.25	D3428-5002-AR
24	1.965 (49.91)	MHR24E-ND	1.87	142.20	643.50	D3627-5002-AR
26	2.065 (52.45)	MHR26E-ND	2.06	156.42	707.85	D3429-5002-AR
30	2.265 (57.53)	MHR30E-ND	2.08	158.00	715.00	D3440-5002-AR
34	2.465 (62.61)	MHR34E-ND	2.12	161.16	729.30	D3431-5002-AR
40	2.765 (70.23)	MHR40E-ND	2.52	191.18	865.15	D3432-5002-AR
50	3.265 (82.93)	MHR50E-ND	3.14	238.58	1079.65	D3433-5002-AR
Right Angle, Gray PBT – 30µ” Gold – without Latches						
10	1.265 (32.13)	MHR10K-ND	1.50	113.76	514.80	3793-5002
14	1.465 (37.21)	MHR14K-ND	2.08	158.00	715.00	3314-5002
16	1.565 (39.75)	MHR16K-ND	2.37	180.12	815.10	3408-5002
20	1.765 (44.83)	MHR20K-ND	2.93	222.78	1008.15	3428-5002
24	1.965 (49.91)	MHR24K-ND	3.54	268.60	1215.50	3627-5002
26	2.065 (52.45)	MHR26K-ND	3.81	289.14	1308.45	3429-5002
40	2.765 (70.23)	MHR40K-ND	4.70	357.08	1615.90	3432-5002
Straight, Black PCT – 30µ” Gold – without Latches — RoHS Compliant						
10	1.265 (32.13)	MHS10L-ND	1.16	88.48	400.40	N3793-6002RB
14	1.465 (37.21)	MHS14L-ND	1.60	121.66	550.55	N3314-6002RB
16	1.565 (39.75)	MHS16L-ND	1.83	139.04	629.20	N3408-6002RB
20	1.765 (44.83)	MHS20L-ND	2.27	172.22	779.35	N3428-6002RB
24	1.965 (49.91)	MHS24L-ND	2.72	206.98	936.65	N3627-6002RB
26	2.065 (52.45)	MHS26L-ND	2.93	222.78	1008.15	N3429-6002RB
30	2.265 (57.53)	MHS30L-ND	2.72	206.98	936.65	N3440-6002RB
34	2.465 (62.61)	MHS34L-ND	3.04	230.68	1043.90	N3431-6002RB
40	2.765 (70.23)	MHS40L-ND	3.62	274.92	1244.10	N3432-6002RB
50	3.265 (82.93)	MHS50L-ND	4.51	342.86	1551.55	N3433-6002RB
60	3.765 (95.63)	MHS60L-ND	5.43	412.38	1866.15	N3372-6002RB
NEW! Straight, Black PCT – 30µ” Gold – with Short Latches — RoHS Compliant NEW!						
10	1.265 (32.13)	MHS10S-ND	1.39	105.86	479.05	N3793-6202RB
14	1.465 (37.21)	MHS14S-ND	1.85	140.62	636.35	N3314-6202RB
16	1.565 (39.75)	MHS16S-ND	2.08	158.00	715.00	N3408-6202RB
20	1.765 (44.83)	MHS20S-ND	2.54	192.76	872.30	N3428-6202RB
24	1.965 (49.91)	MHS24S-ND	2.97	225.94	1022.45	N3627-6202RB
26	2.065 (52.45)	MHS26S-ND	3.22	244.90	1108.25	N3429-6202RB
30	2.265 (57.53)	MHS30S-ND	2.97	225.94	1022.45	N3440-6202RB
34	2.465 (62.61)	MHS34S-ND	3.33	252.80	1144.00	N3431-6202RB
40	2.765 (70.23)	MHS40S-ND	3.89	295.46	1337.05	N3432-6202RB
50	3.265 (82.93)	MHS50S-ND	4.78	363.40	1644.50	N3433-6202RB
60	3.765 (95.63)	MHS60S-ND	5.68	431.34	1951.95	N3372-6202RB
NEW! Straight, Black PCT – 30µ” Gold – with Long Latches — RoHS Compliant NEW!						
10	1.265 (32.13)	MHS10N-ND	1.39	105.86	479.05	N3793-6302RB
14	1.465 (37.21)	MHS14N-ND	1.85	140.62	636.35	N3314-6302RB
16	1.565 (39.75)	MHS16N-ND	2.08	158.00	715.00	N3408-6302RB
20	1.765 (44.83)	MHS20N-ND	2.54	192.76	872.30	N3428-6302RB
24	1.965 (49.91)	MHS24N-ND	2.97	225.94	1022.45	N3627-6302RB
26	2.065 (52.45)	MHS26N-ND	3.22	244.90	1108.25	N3429-6302RB
30	2.265 (57.53)	MHS30N-ND	2.97	225.94	1022.45	N3440-6302RB
34	2.465 (62.61)	MHS34N-ND	3.33	252.80	1144.00	N3431-6302RB
40	2.765 (70.23)	MHS40N-ND	3.89	295.46	1337.05	N3432-6302RB
50	3.265 (82.93)	MHS50N-ND	4.78	363.40	1644.50	N3433-6302RB
60	3.765 (95.63)	MHS60N-ND	5.68	431.34	1951.95	N3372-6302RB
NEW! Straight, Black PCT – 30µ” Gold – with Longer Latches — RoHS Compliant NEW!						
10	1.265 (32.13)	MHS10B-ND‡	1.48	112.18	507.65	N3793-6303RB
14	1.465 (37.21)	MHS14B-ND‡	1.96	148.52	672.10	N3314-6303RB
16	1.565 (39.75)	MHS16B-ND‡	2.41	183.28	829.40	N3408-6303RB
20	1.765 (44.83)	MHS20B-ND‡	2.66	202.24	915.20	N3428-6303RB
24	1.965 (49.91)	MHS24B-ND‡	3.14	238.58	1079.65	N3627-6303RB
26	2.065 (52.45)	MHS26B-ND‡	3.39	257.54	1165.45	N3429-6303RB
30	2.265 (57.53)	MHS30B-ND‡	3.14	238.58	1079.65	N3440-6303RB
34	2.465 (62.61)	MHS34B-ND‡	3.49	265.44	1201.20	N3431-6303RB
40	2.765 (70.23)	MHS40B-ND‡	4.33	328.64	1487.20	N3432-6303RB
50	3.265 (82.93)	MHS50B-ND‡	5.03	382.36	1730.30	N3433-6303RB
60	3.765 (95.63)	MHS60B-ND‡	6.84	519.82	2352.35	N3372-6303RB
Straight, Black PCT – 10µ” Gold – without Latches — RoHS Compliant						
10	1.265 (32.13)	MHS10E-ND	.77	58.46	264.55	D3793-6002-AR
14	1.465 (37.21)	MHS14E-ND	1.08	82.16	371.80	D3314-6002-AR
16	1.565 (39.75)	MHS16E-ND	1.25	94.80	429.00	D3408-6002-AR
20	1.765 (44.83)	MHS20E-ND	1.56	118.50	536.25	D3428-6002-AR
24	1.965 (49.91)	MHS24E-ND	1.87	142.20	643.50	D3627-6002-AR
26	2.065 (52.45)	MHS26E-ND	2.06	156.42	707.85	D3429-6002-AR
30	2.265 (57.53)	MHS30E-ND	2.08	158.00	715.00	D3440-6002-AR
34	2.465 (62.61)	MHS34E-ND	2.12	161.16	729.30	D3431-6002-AR
40	2.765 (70.23)	MHS40E-ND	2.52	191.18	865.15	D3432-6002-AR
50	3.265 (82.93)	MHS50E-ND	3.14	238.58	1079.65	D3433-6002-AR
Straight, Gray PBT – 30µ” Gold – without Latches						
10	1.265 (32.13)	MHS10K-ND	1.48	112.18	507.65	3793-6002
14	1.465 (37.21)	MHS14K-ND	2.04	154.84	700.70	3314-6002
16	1.565 (39.75)	MHS16K-ND	2.33	176.96	800.80	3408-6002
20	1.765 (44.83)	MHS20K-ND	2.89	219.62	993.85	3428-6002
24	1.965 (49.91)	MHS24K-ND	3.45	262.28	1186.90	3627-6002
26	2.065 (52.45)	MHS26K-ND	3.72	282.82	1279.85	3429-6002
30	2.265 (57.53)	MHS30K-ND	3.45	262.28	1186.90	3440-6002
34	2.465 (62.61)	MHS34K-ND	3.91	297.04	1344.20	3431-6002
40	2.765 (70.23)	MHS40K-ND	4.58	347.60	1573.00	3432-6002
50	3.265 (82.93)	MHS50K-ND	5.76	437.66	1980.55	3433-6002
NEW! Accessories — RoHS Compliant NEW!						
Panhead Thread Cutting Screw		MHA101-ND	3.60/10	27.00	108.00	3341-5
Hex Head Bolt, Nut and Washer		MHA102-ND	9.00/10	64.80	306.00	3341-6-500PK
Polarizing Key, Black, LCP		MHA100-ND	1.80/10	13.50	54.00	N3518
Optional Ejector Latches for Connectors — RoHS Compliant						
Short – Black with roll pins		MLKS03-ND◊	.29/2	11.06	50.05	N3505-2B
Short – Gray with roll pins		MLKS01-ND◊	.21/2	7.90	35.75	3505-2
Short – Black Snap-in		MLKS05-ND◊	.46/2	17.38	78.65	N3505-30B
Long – Black with roll pins		MLKS04-ND†	.21/2	7.90	35.75	N3505-3B
Long – Gray with roll pins		MLKS02-ND†	.21/2	7.90	35.75	3505-3-BULK-PK
Long – Black Snap-in		MLKS06-ND†	.37/2	14.22	64.35	N3505-31B

◊ Use without strain relief † Use with strain relief ‡ Solder tail for .094” ~ .125” (2.39mm ~ 3.18mm) thick boards

3M Low Profile Headers

(Protected Headers)

PHYSICAL:
• Flammability: UL 94V-0 • Marking: 3M logo, Part Identification Number and Orientation Triangle **ELECTRICAL:** • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS at Sea Level
ENVIRONMENTAL
• Temperature Rating: -55°C ~ 105°C • UL File No.: E68080

2500 Series Non-Compliant Specifications:
Insulation: • Material: Glass filled Polyester (PBT) • Color: Gray • Contact Material: Phosphor Bronze (C510) **Plating:** • Underplating: 100µ" Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead-MIL-P-81728 • CSA File No.: LR 40971
2500 Series RoHS Compliant Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) High Temperature option • Contact Material: Copper Alloy **Plating**: • Underplating: 100µ" (2.54µm) Nickel - Overall • Wiping Area: Gold • Solder Tails: 200µ" (5.08µm) Tin Lead or Matte Tin
D2500 Series Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: High Temperature Glass Filled Polyester (PCT) • Color: Black • Contact Material: Brass **Plating:** • Underplating: 50 ~ 100µ" Nickel • Wiping Area: 10µ" (0.25µm) Gold • Solder Tails: 40 ~ 120µ" (1 ~ 3µm) Matte Tin

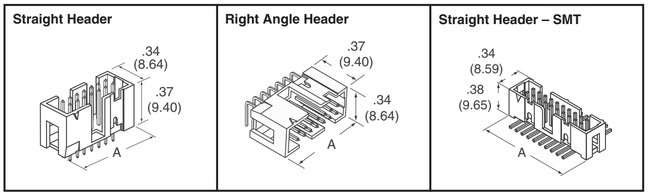
Straight Header
Right Angle Header
Straight Header – SMT

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Straight Solder Tail, Gray PBT						
10	0.788 (20.02)	MHB10K-ND	1.77	134.30	607.75	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.83	139.04	629.20	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	2.04	154.84	700.70	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	2.12	161.16	729.30	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	2.23	169.06	765.05	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	2.27	172.22	779.35	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	2.62	199.08	900.90	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	2.70	205.40	929.50	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.91	221.20	1001.00	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	3.62	274.92	1244.10	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	4.33	328.64	1487.20	2560-6002UB
Straight Solder Tail, Black PCT – 10µ" Gold — RoHS Compliant						
10	.788 (20.02)	MHC10E-ND	.94	71.10	321.75	D2510-6002-AR
14	.988 (25.10)	MHC14E-ND	1.06	80.58	364.65	D2514-6002-AR
16	1.088 (27.64)	MHC16E-ND	1.19	90.06	407.55	D2516-6002-AR
20	1.288 (32.72)	MHC20E-ND	1.23	93.22	421.85	D2520-6002-AR
24	1.488 (37.80)	MHC24E-ND	1.31	99.54	450.45	D2524-6002-AR
26	1.588 (40.34)	MHC26E-ND	1.33	101.12	457.60	D2526-6002-AR
30	1.788 (45.42)	MHC30E-ND	1.54	116.92	529.10	D2530-6002-AR
34	1.988 (50.50)	MHC34E-ND	1.60	121.66	550.55	D2534-6002-AR
40	2.288 (58.12)	MHC40E-ND	1.71	129.56	586.30	D2540-6002-AR
50	2.788 (70.82)	MHC50E-ND	2.10	159.58	722.15	D2550-6002-AR
Straight Solder Tail, Black PCT – 30µ" Gold — RoHS Compliant						
10	0.788 (20.02)	MHC10K-ND	1.37	104.28	471.90	N2510-6002-RB
14	0.988 (25.10)	MHC14K-ND	1.41	107.44	486.20	N2514-6002-RB
16	1.088 (27.64)	MHC16K-ND	1.58	120.08	543.40	N2516-6002-RB
20	1.288 (32.72)	MHC20K-ND	1.64	124.82	564.85	N2520-6002-RB
24	1.488 (37.80)	MHC24K-ND	1.75	132.72	600.60	N2524-6002-RB
26	1.588 (40.34)	MHC26K-ND	1.77	134.30	607.75	N2526-6002-RB
30	1.788 (45.42)	MHC30K-ND	2.04	154.84	700.70	N2530-6002-RB
34	1.988 (50.50)	MHC34K-ND	2.12	161.16	729.30	N2534-6002-RB
40	2.288 (58.12)	MHC40K-ND	2.27	172.22	779.35	N2540-6002-RB
50	2.788 (70.82)	MHC50K-ND	2.81	213.30	965.25	N2550-6002-RB
60	3.288 (83.52)	MHC60K-ND	3.37	255.96	1158.30	N2560-6002-RB
64	3.488 (88.60)	MHC64K-ND	3.58	271.76	1229.80	N2564-6002-RB
Right Angle Solder Tail, Gray PBT – 30µ" Gold						
10	0.788 (20.02)	MHD10K-ND	1.93	146.94	664.95	2510-5002UB
14	0.988 (25.10)	MHD14K-ND	2.00	151.68	686.40	2514-5002UB
16	1.088 (27.64)	MHD16K-ND	2.23	169.06	765.05	2516-5002UB
20	1.288 (32.72)	MHD20K-ND	2.35	178.54	807.95	2520-5002UB
24	1.488 (37.80)	MHD24K-ND	2.45	186.44	843.70	2524-5002UB
26	1.588 (40.34)	MHD26K-ND	2.48	188.02	850.85	2526-5002UB
30	1.788 (45.42)	MHD30K-ND	3.37	255.96	1158.30	2530-5002UB
34	1.988 (50.50)	MHD34K-ND	2.95	224.36	1015.30	2534-5002UB
40	2.288 (58.12)	MHD40K-ND	3.20	243.32	1101.10	2540-5002UB
50	2.788 (70.82)	MHD50K-ND	3.95	300.20	1358.50	2550-5002UB
Right Angle Solder Tail, Black PCT – 10µ" Gold — RoHS Compliant						
10	.788 (20.02)	MHE10E-ND	1.02	77.42	350.35	D2510-5002-AR
14	.988 (25.10)	MHE14E-ND	1.16	88.48	400.40	D2514-5002-AR
16	1.088 (27.64)	MHE16E-ND	1.31	99.54	450.45	D2516-5002-AR
20	1.288 (32.72)	MHE20E-ND	1.37	104.28	471.90	D2520-5002-AR
24	1.488 (37.80)	MHE24E-ND	1.44	109.02	493.35	D2524-5002-AR
26	1.588 (40.34)	MHE26E-ND	1.46	110.60	500.50	D2526-5002-AR
30	1.788 (45.42)	MHE30E-ND	1.98	150.10	679.25	D2530-5002-AR
34	1.988 (50.50)	MHE34E-ND	1.73	131.14	593.45	D2534-5002-AR
40	2.288 (58.12)	MHE40E-ND	1.87	142.20	643.50	D2540-5002-AR
50	2.788 (70.82)	MHE50E-ND	2.31	175.38	793.65	D2550-5002-AR
Right Angle Solder Tail, Black PCT – 30µ" Gold — RoHS Compliant						
10	0.788 (20.02)	MHE10K-ND	1.52	115.34	521.95	N2510-5002-RB
14	0.988 (25.10)	MHE14K-ND	1.56	118.50	536.25	N2514-5002-RB
16	1.088 (27.64)	MHE16K-ND	1.75	132.72	600.60	N2516-5002-RB
20	1.288 (32.72)	MHE20K-ND	1.83	139.04	629.20	N2520-5002-RB
24	1.488 (37.80)	MHE24K-ND	1.91	145.36	657.80	N2524-5002-RB
26	1.588 (40.34)	MHE26K-ND	1.93	146.94	664.95	N2526-5002-RB
30	1.788 (45.42)	MHE30K-ND	2.62	199.08	900.90	N2530-5002-RB
34	1.988 (50.50)	MHE34K-ND	2.31	175.38	793.65	N2534-5002-RB
40	2.288 (58.12)	MHE40K-ND	2.50	189.60	858.00	N2540-5002-RB
50	2.788 (70.82)	MHE50K-ND	3.08	233.84	1058.20	N2550-5002-RB
60	3.288 (83.52)	MHE60K-ND	3.70	281.24	1272.70	N2560-5002-RB
64	3.488 (88.60)	MHE64K-ND	3.95	300.20	1358.50	N2564-5002-RB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Cut Tape Pricing 1	100	T & R‡ Pricing 200	3M Part No.
Straight, Black PCT, SMT – 30µ" Gold— RoHS Compliant						
10	.788 (20.02)	MSH10KCT-ND	1.58	120.08	228.00	N2510-6V0C-RB-WD
14	.988 (25.10)	MSH14KCT-ND	1.62	123.24	234.00	N2514-6V0C-RB-WD
16	1.088 (27.64)	MSH16KCT-ND	1.79	135.88	258.00	N2516-6V0C-RB-WE
20	1.288 (32.72)	MSH20KCT-ND	1.85	140.62	267.00	N2520-6V0C-RB-WE
24	1.488 (37.80)	MSH24KCT-ND	1.96	148.52	282.00	N2524-6V0C-RB-WE
26	1.588 (40.34)	MSH26KCT-ND	1.98	150.10	285.00	N2526-6V0C-RB-WF
30	1.788 (45.42)	MSH30KCT-ND	2.25	170.64	324.00	N2530-6V0C-RB-WF
34	1.988 (50.50)	MSH34KCT-ND	2.33	176.96	336.00	N2534-6V0C-RB-WF
40	2.288 (58.12)	MSH40KCT-ND	2.48	188.02	357.00	N2540-6V0C-RB-WG
50	2.788 (70.82)	MSH50KCT-ND	3.02	229.10	435.00	N2550-6V0C-RB-WG
60	3.288 (83.52)	MSH60KCT-ND	3.58	271.76	516.00	N2560-6V0C-RB-WH
64	3.488 (88.60)	MSH64KCT-ND	3.79	287.56	546.00	N2564-6V0C-RB-WH
Straight, Black PCT, SMT – 10µ" Gold — RoHS Compliant						
10	.788 (20.02)	MSH10ECT-ND	1.04	79.00	150.00	D2510-6V0C-AR-WD
14	.988 (25.10)	MSH14ECT-ND	1.23	93.22	177.00	D2514-6V0C-AR-WD
16	1.088 (27.64)	MSH16ECT-ND	1.35	102.70	195.00	D2516-6V0C-AR-WE
20	1.288 (32.72)	MSH20ECT-ND	1.39	105.86	201.00	D2520-6V0C-AR-WE
24	1.488 (37.80)	MSH24ECT-ND	1.48	112.18	213.00	D2524-6V0C-AR-WE
26	1.588 (40.34)	MSH26ECT-ND	1.48	112.18	213.00	D2526-6V0C-AR-WF
30	1.788 (45.42)	MSH30ECT-ND	1.68	127.98	243.00	D2530-6V0C-AR-WF
34	1.988 (50.50)	MSH34ECT-ND	1.75	132.72	252.00	D2534-6V0C-AR-WF
40	2.288 (58.12)	MSH40ECT-ND	1.85	140.62	267.00	D2540-6V0C-AR-WG
50	2.788 (70.82)	MSH50ECT-ND	2.27	172.22	327.00	D2550-6V0C-AR-WG

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Polarized Boardmount Socket

.100" x .100" (2.54mm x 2.54mm) – 8500 Series

FEATURES: • Centerbump polarization • Mates with low profile shrouded headers
PHYSICAL: • Insulation Material: Glass Filled Polyester (PBT) • Flammability: UL 94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating – Underplating and U-slot: 2µm (79µ") Nickel • Wiping Area: 0.3µm (12µ") Gold • Solder Tails: Gold Flash • Marking: 3M logo, Part Identification Number and Orientation Triangle
ELECTRICAL: • Current Rating: 1A • Insulation Resistance: >1 x 10⁹Ω @ 500VDC
ENVIRONMENTAL: • Temperature Rating: -55°C ~ 105°C

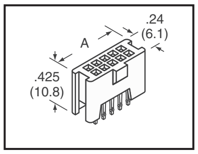

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
10	0.68 (17.3)	MSPV10-ND	2.20	167.48	757.90	8510-4500PL
16	0.98 (25.9)	MSPV16-ND	2.85	216.46	979.55	8516-4500PL
20	1.18 (30.0)	MSPV20-ND	3.37	255.96	1158.30	8520-4500PL
26	1.48 (37.6)	MSPV26-ND	3.89	295.46	1337.05	8526-4500PL
34	1.88 (47.7)	MSPV34-ND	4.70	357.08	1615.90	8534-4500PL
40	2.18 (55.4)	MSPV40-ND	5.26	399.74	1808.95	8540-4500PL
50	2.68 (68.1)	MSPV50-ND	6.28	477.16	2159.30	8550-4500PL
60	3.18 (80.8)	MSPV60-ND	7.30	554.58	2509.65	8560-4500PL
64	3.38 (85.8)	MSPV64-ND	7.68	583.02	2638.35	8564-4500PL

Round Conductor Flat Cable

3365 Series

UL File No.: E42769
AWM Style No.: 2651

PHYSICAL: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray with Red Stripe on wire #1 • AWM 2651 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

ELECTRICAL: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

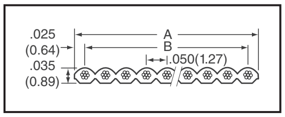

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★	300 ft.★
6	0.30 (7.62)	0.25 (6.35)	MC06G-X-ND	1.43	2.65	5.91	10.19	18.34	48.92
10	0.50 (12.70)	0.45 (11.43)	MC10G-X-ND	1.97	3.67	8.18	14.10	25.39	67.70
14	0.70 (17.78)	0.65 (16.51)	MC14G-X-ND	2.52	4.67	10.43	17.98	32.36	86.28
16	0.80 (20.32)	0.75 (19.05)	MC16G-X-ND	2.79	5.18	11.55	19.91	35.84	95.56
20	1.00 (25.40)	0.95 (24.13)	MC20G-X-ND	3.33	6.18	13.79	23.78	42.80	114.14
24	1.20 (30.48)	1.15 (29.21)	MC24G-X-ND	4.02	7.46	16.64	28.68	51.63	137.68
26	1.30 (33.02)	1.25 (31.75)	MC26G-X-ND	4.36	8.09	18.05	31.13	56.03	149.40
34	1.70 (43.18)	1.65 (41.91)	MC34G-X-ND	5.71	10.60	23.64	40.77	73.38	195.68
37	1.85 (46.99)	1.80 (45.72)	MC37G-X-ND	6.21	11.54	25.73	44.37	79.86	212.96
40	2.00 (50.80)	1.95 (49.53)	MC40G-X-ND	6.72	12.47	27.82	47.97	86.35	230.26
50	2.50 (63.50)	2.45 (62.23)	MC50G-X-ND	8.40	15.60	34.81	60.02	108.03	288.08
60	3.00 (76.20)	2.95 (74.93)	MC60G-X-ND	10.07	18.70	41.72	71.94	129.49	345.30
64	3.20 (81.28)	3.15 (80.01)	MC64G-X-ND	10.74	19.94	44.48	76.69	138.04	368.10

★ Cable available on xxx foot roll

Color Coded Flat Cable
3302 Series

UL File No.: E42769
AWM Style No.: 20462

Physical: • .050” pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat, Clear Carrier • AWM 20462 105C 300V VW1 • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10^9Ω/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

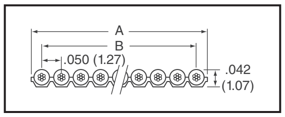

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★	300 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10M-X-ND	3.03	5.63	12.56	21.66	38.99	103.96
14	0.70 (17.78)	0.65 (16.51)	MC14M-X-ND	4.24	7.88	17.59	30.32	54.58	145.54
16	0.80 (20.32)	0.75 (19.05)	MC16M-X-ND	4.85	9.01	20.10	34.65	62.37	166.32
20	1.00 (25.40)	0.95 (24.13)	MC20M-X-ND	6.06	11.26	25.12	43.31	77.96	207.90
24	1.20 (30.48)	1.15 (29.21)	MC24M-X-ND	7.28	13.51	30.15	51.98	93.56	249.48
26	1.30 (33.02)	1.25 (31.75)	MC26M-X-ND	7.88	14.64	32.66	56.31	101.36	270.28
34	1.70 (43.18)	1.65 (41.91)	MC34M-X-ND	10.31	19.14	42.71	73.63	132.54	353.44
37	1.85 (46.99)	1.80 (45.72)	MC37M-X-ND	11.22	20.83	46.47	80.13	144.23	384.62
40	2.00 (50.80)	1.95 (49.53)	MC40M-X-ND	12.13	22.52	50.24	86.63	155.93	415.80
50	2.50 (63.50)	2.45 (62.23)	MC50M-X-ND	15.16	28.15	62.80	108.28	194.91	519.76
60	3.00 (76.20)	2.95 (74.93)	MC60M-X-ND	18.19	33.78	75.36	129.94	233.89	623.70
64	3.20 (81.28)	3.15 (80.01)	MC64M-X-ND	19.40	36.04	80.39	138.60	249.48	665.28

★ Cable available on xxx foot roll

High Flex Life Cable
3319 Series

UL File No.: E42769
AWM Style No.: 2651

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications. Flex life of 100 million cycles at 1 3/4 inch diameter.

Physical: • .050” pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black with Red Stripe on wire #1 • AWM 2651 105C 300V VW1 • Conductors: 28AWG, 19 x 40 Silver Plated Stranded Copper Alloy

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

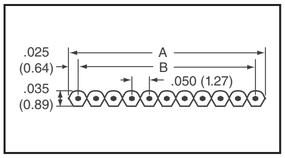

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10H-X-ND	19.94	37.03	82.60	142.41	227.86
14	0.70 (17.78)	0.65 (16.51)	MC14H-X-ND	27.91	51.84	115.64	199.38	319.00
16	0.80 (20.32)	0.75 (19.05)	MC16H-X-ND	31.90	59.24	132.15	227.85	364.56
20	1.00 (25.40)	0.95 (24.13)	MC20H-X-ND	39.87	74.05	165.19	284.81	455.70
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	47.85	88.86	198.23	341.78	546.84
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	51.84	96.27	214.75	370.26	592.42
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	67.79	125.89	280.83	484.19	774.70
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	73.77	136.99	305.60	526.90	843.04
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	79.75	148.10	330.38	569.63	911.40
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	99.69	185.13	412.98	712.04	1139.26
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	119.62	222.15	495.57	854.44	1367.10
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	127.59	236.96	528.60	911.38	1458.20

★ Cable available on xxx foot roll

Gray Cable Clamps with Adhesive

3484 Series: Cable clamps organize cable routing by clamping and retaining up to six layers of flat cable.

3484-1000-ND Cable Clamps with Adhesive **$14.00/100**

Round Conductor Flat Cable
2010 Series – Halogen Free

UL File No.: E42769
AWM Style No.: 20930

Advantages of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gasses (NES 713).

Physical: • .050” pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White with Blue Stripe on wire #1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 30V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: UL: Horizontal IEC 332-1, -2, & -3

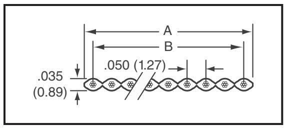

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MB10R-X-ND	3.46	6.43	14.35	24.74	39.58
15	0.75 (19.05)	0.70 (17.78)	MB15R-X-ND	5.45	10.13	22.60	38.96	62.34
25	1.25 (31.75)	1.20 (30.48)	MB25R-X-ND	8.66	16.08	35.87	61.84	98.94
30	1.50 (38.10)	1.45 (36.83)	MB30R-X-ND	10.39	19.30	43.04	74.21	118.74
34	1.70 (43.18)	1.65 (41.91)	MB34R-X-ND	11.77	21.87	48.78	84.10	134.56
37	1.85 (46.99)	1.80 (45.72)	MB37R-X-ND	12.81	23.80	53.08	91.53	146.44
40	2.00 (50.80)	1.95 (49.53)	MB40R-X-ND	13.85	25.73	57.39	98.95	158.32
60	3.00 (76.20)	2.95 (74.93)	MB60R-X-ND	20.78	38.59	86.09	148.43	237.48
64	3.20 (81.28)	3.15 (80.01)	MB64R-X-ND	22.17	41.16	91.83	158.33	253.32

★ Cable available on xxx foot roll

Round Conductor Flat Cable
FEP – 3601 Series

UL File No.: E42769
AWM Style No.: 20424

Features: • Excellent abrasion and chemical resistance • Excellent mechanical durability • Nonflammable • UL Recognized at 200°C
Physical Specifications: • Insulation Material: Fluorinated Ethylene Propylene (FEP) • Insulation Color: Blue
Electrical Specifications: • Voltage Rating: 300V (USA); <50V (EU) • Insulation Resistance: >1 x 10^{10}Ω / 10ft (3 meters) • Conductors: 28AWG, 7 x 36 AWG (7xø0.127) Silver plated stranded copper • Temperature Rating: -55°C ~ 200°C • Flammability Rating: VW-1

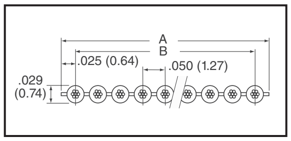

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MB10C-X-ND	21.66	40.22	89.72	154.69	247.50
15	0.75 (19.05)	0.70 (17.78)	MB15C-X-ND	32.49	60.33	134.58	232.04	371.26
16	0.80 (20.32)	0.75 (19.05)	MB16C-X-ND	34.65	64.35	143.55	247.50	396.00
20	1.00 (25.40)	0.95 (24.13)	MB20C-X-ND	43.31	80.44	179.44	309.38	495.00
25	1.25 (31.75)	1.20 (30.48)	MB25C-X-ND	54.14	100.55	224.30	386.73	618.76
26	1.30 (33.02)	1.25 (31.75)	MB26C-X-ND	56.31	104.57	233.27	402.19	643.50
30	1.50 (38.10)	1.45 (36.83)	MB30C-X-ND	64.97	120.66	269.16	464.06	742.50
34	1.70 (43.18)	1.65 (41.91)	MB34C-X-ND	73.63	136.74	305.04	525.94	841.50
40	2.00 (50.80)	1.95 (49.53)	MB40C-X-ND	86.63	160.88	358.88	618.75	990.00
50	2.50 (63.50)	2.45 (62.23)	MB50C-X-ND	108.28	201.09	448.59	773.44	1237.50
60	3.00 (76.20)	2.95 (74.93)	MB60C-X-ND	129.94	241.31	538.31	928.13	1485.00

★ Cable available on xxx foot roll

Twisted Pair Flat Cable
1700 Series

UL File No.: E42769
AWM Style No.: 20462

Provides reduced crosstalk in balanced drive applications. Standard product has alternating 18” twisted sections and 2” flat sections.

Physical: • .050” pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat with Tan Common • AWM 20462 105C 300V VW1 • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10^9Ω/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

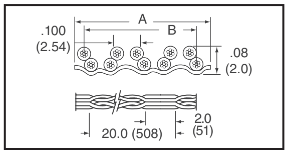

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10F-X-ND	3.23	6.01	13.40	23.10	36.96
14	0.70 (17.78)	0.65 (16.51)	MC14F-X-ND	4.53	8.41	18.76	32.34	51.74
16	0.80 (20.32)	0.75 (19.05)	MC16F-X-ND	5.17	9.61	21.44	36.96	59.14
20	1.00 (25.40)	0.95 (24.13)	MC20F-X-ND	6.47	12.01	26.80	46.20	73.92
26	1.30 (33.02)	1.25 (31.75)	MC26F-X-ND	8.41	15.62	34.84	60.06	96.10
34	1.70 (43.18)	1.65 (41.91)	MC34F-X-ND	11.00	20.42	45.55	78.54	125.66
36	1.80 (45.72)	1.75 (44.45)	MC36F-X-ND	11.64	21.62	48.23	83.16	133.06
40	2.00 (50.80)	1.95 (49.53)	MC40F-X-ND	12.94	24.02	53.59	92.40	147.84
50	2.50 (63.50)	2.45 (62.23)	MC50F-X-ND	16.17	30.03	66.99	115.50	184.80
60	3.00 (76.20)	2.95 (74.93)	MC60F-X-ND	19.40	36.04	80.39	138.60	221.76
64	3.20 (81.28)	3.15 (80.01)	MC64F-X-ND	20.70	38.44	85.75	147.84	236.54

★ Cable available on xxx foot roll

Shielded/Jacketed Flat Cable
3517 Series

UL File No.: E118773
AWM Style No.: 20879

360° expanded copper shielding provide 20 db average shielding effectiveness.

Physical: • .050” pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Insulation Material: Polyvinyl Chloride (PVC) • Insulation Color: Gray with Red Stripe on wire #1 • AWM 20879 75C 28AWG • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper • Shielding Material: Expanded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

Environmental: • Temperature Rating: -20°C ~ 80°C • Flammability Rating: N.E.C 725, CL2

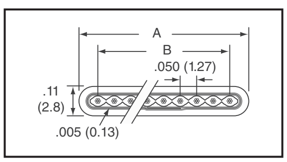

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
9	0.58 (14.70)	0.40 (10.16)	MB09H-X-ND	13.47	25.01	55.79	96.19	153.90
10	0.63 (16.00)	0.45 (11.43)	MB10H-X-ND	15.83	29.40	65.58	113.06	180.90
14	0.83 (21.10)	0.65 (16.51)	MB14H-X-ND	16.69	31.00	69.16	119.24	190.78
15	0.88 (22.40)	0.70 (17.78)	MB15H-X-ND	16.84	31.27	69.75	120.25	192.40
16	0.93 (23.60)	0.75 (19.05)	MB16H-X-ND	19.98	37.11	82.77	142.71	228.34
20	1.13 (28.70)	0.95 (24.13)	MB20H-X-ND	24.97	46.38	103.46	178.39	285.42
24	1.33 (33.80)	1.15 (29.21)	MB24H-X-ND	25.54	47.42	105.79	182.40	291.84
25	1.38 (35.00)	1.20 (30.48)	MB25H-X-ND	31.22	57.97	129.33	222.98	356.76
26	1.43 (36.30)	1.25 (31.75)	MB26H-X-ND	32.46	60.29	134.49	231.89	371.02
30	1.63 (41.40)	1.45 (36.83)	MB30H-X-ND	31.92	59.28	132.24	228.00	364.80
34	1.83 (46.50)	1.65 (41.91)	MB34H-X-ND	30.16	56.01	124.94	215.41	344.66
36	1.93 (49.00)	1.75 (44.45)	MB36H-X-ND	44.95	83.48	186.23	321.09	513.74
37	1.98 (50.30)	1.80 (45.72)	MB37H-X-ND	46.32	86.02	191.89	330.84	529.34
40	2.13 (54.10)	1.95 (49.53)	MB40H-X-ND	49.95	92.76	206.92	356.76	570.82
50	2.63 (66.80)	2.45 (62.23)	MB50H-X-ND	62.43	115.95	258.66	445.96	713.54
60	3.13 (79.50)	2.95 (74.93)	MB60H-X-ND	80.17	148.88	332.12	572.61	916.18
64	3.38 (85.90)	3.15 (80.01)	MB64H-X-ND	85.51	158.81	354.26	610.80	977.28

★ Cable available on xxx foot roll

3M

Shielded/Jacketed Flat Cable – 1785 Series

UL File No.: E118773
AWM Style No.: 2912

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC • Primary Color: 10 Color Repeat with Tan Common • Shielding: Expanded Copper

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 150V; Canada: 150V; EU: >50V • Insulation Resistance: >1 x 10^9Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

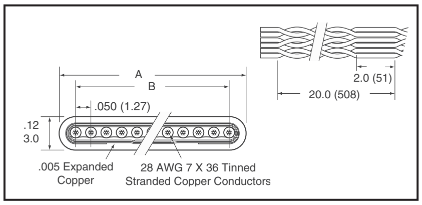

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 10 ft.*	25 ft.*	50 ft.*	100 ft.*
16	0.93 (23.60)	0.75 (19.05)	MB16F-X-ND	35.89	80.06	138.04	220.86
20	1.13 (28.70)	0.95 (24.13)	MB20F-X-ND	41.47	92.51	159.50	255.20
26	1.43 (36.30)	1.25 (31.75)	MB26F-X-ND	53.91	120.26	207.34	331.74
34	1.83 (46.50)	1.65 (41.91)	MB34F-X-ND	70.50	157.27	271.15	433.84
36	1.93 (49.00)	1.75 (44.45)	MB36F-X-ND	74.65	166.52	287.10	459.36
40	2.13 (54.10)	1.95 (49.53)	MB40F-X-ND	88.52	197.48	340.48	544.76
50	2.63 (66.80)	2.45 (62.23)	MB50F-X-ND	103.68	231.28	398.75	638.00
60	3.13 (79.50)	2.95 (74.93)	MB60F-X-ND	124.41	277.52	478.49	765.58
64	3.38 (85.90)	3.15 (80.01)	MB64F-X-ND	141.63	315.95	544.74	871.58

* Cable available on xxx foot roll

Round Jacketed/Shielded Flat Cable – 3659 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC • Primary Color: Gray • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper • Shielding: 0.001" (.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V, EU: >50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

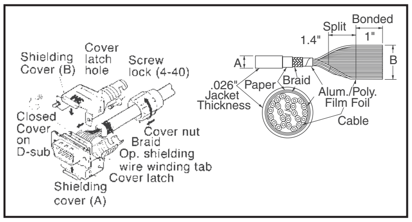

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
9	0.27 (6.9)	0.40 (10.2)	MC09R-X-ND	10.53	19.55	43.62	75.20	120.32
10	0.27 (6.9)	0.45 (11.4)	MC10R-X-ND	11.02	20.47	45.67	78.74	125.98
14	0.31 (7.9)	0.65 (16.5)	MC14R-X-ND	11.98	22.24	49.62	85.55	136.88
15	0.31 (7.9)	0.70 (17.8)	MC15R-X-ND	12.46	23.14	51.61	88.99	142.38
16	0.31 (7.9)	0.75 (19.1)	MC16R-X-ND	12.94	24.02	53.59	92.40	147.84
20	0.34 (8.6)	0.95 (24.1)	MC20R-X-ND	13.41	24.91	55.57	95.81	153.30
24	0.37 (9.4)	1.15 (29.2)	MC24R-X-ND	14.50	26.94	60.09	103.60	165.76
25	0.37 (9.4)	1.20 (30.5)	MC25R-X-ND	14.96	27.78	61.98	106.86	170.98
26	0.37 (9.4)	1.25 (31.8)	MC26R-X-ND	15.47	28.73	64.09	110.50	176.80
34	0.41 (10.4)	1.65 (41.9)	MC34R-X-ND	17.64	32.76	73.09	126.01	201.62
36	0.43 (10.9)	1.75 (44.5)	MC36R-X-ND	18.13	33.67	75.11	129.50	207.20
37	0.43 (10.9)	1.80 (45.7)	MC37R-X-ND	18.62	34.58	77.13	132.99	212.78
40	0.43 (10.9)	1.95 (49.5)	MC40R-X-ND	19.11	35.49	79.16	136.49	218.38
50	0.48 (12.2)	2.45 (62.2)	MC50R-X-ND	22.24	41.31	92.15	158.89	254.22
60	0.51 (13.0)	2.95 (74.9)	MC60R-X-ND	25.27	46.93	104.68	180.49	288.78
64	0.54 (13.7)	3.15 (80.0)	MC64R-X-ND	26.78	49.73	110.94	191.28	306.04

* Cable available on xxx foot roll

No. of Contacts	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
		D-Sub Backshells				
9	MDBS09-ND	4.16	316.00	1430.00	2600.00	3357-9209
15	MDBS15-ND	4.62	350.76	1587.30	2886.00	3357-9215
25	MDBS25-ND	5.26	399.74	1808.95	3289.00	3357-9225
37	MDBS37-ND	7.70	584.60	2645.50	4810.00	3357-9237
50	MDBS50-ND	17.01	1292.44	5848.70	10634.00	3357-9250
		Thumbscrew Kit (2 Thumbscrews and 2 Retainers)				
—	MDTS07-ND	4.33	328.64	1487.20	2704.00	3341-7 KIT

Round/Jacketed Flat Cable – 3759 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

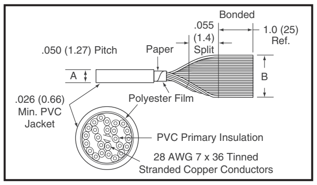

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
9	0.26 (6.6)	0.40 (10.2)	MB09A-X-ND	9.00	16.71	37.27	64.25	102.80
10	0.26 (6.6)	0.45 (11.4)	MB10A-X-ND	9.42	17.49	39.01	67.25	107.60
14	0.27 (6.9)	0.65 (16.5)	MB14A-X-ND	10.23	19.01	42.40	73.10	116.96
15	0.27 (6.9)	0.70 (17.8)	MB15A-X-ND	10.64	19.76	44.09	76.01	121.62
16	0.27 (6.9)	0.75 (19.1)	MB16A-X-ND	11.05	20.52	45.78	78.94	126.30
20	0.30 (7.6)	0.95 (24.1)	MB20A-X-ND	11.15	20.71	46.19	79.64	131.02
24	0.33 (8.4)	1.15 (29.2)	MB24A-X-ND	12.39	23.01	51.34	88.51	141.62
25	0.33 (8.4)	1.20 (30.5)	MB25A-X-ND	12.78	23.73	52.95	91.29	146.06
26	0.33 (8.4)	1.25 (31.8)	MB26A-X-ND	13.22	24.55	54.77	94.43	151.08
30	0.37 (9.4)	1.45 (36.8)	MB30A-X-ND	14.04	26.08	58.18	100.31	160.50
34	0.37 (9.4)	1.65 (41.9)	MB34A-X-ND	15.07	27.99	62.44	107.66	172.26
36	0.39 (9.9)	1.75 (44.5)	MB36A-X-ND	14.73	27.36	61.04	105.24	168.38
37	0.39 (9.9)	1.80 (45.7)	MB37A-X-ND	15.91	29.55	65.91	113.64	181.82
40	0.39 (9.9)	1.95 (49.5)	MB40A-X-ND	16.33	30.32	67.64	116.61	186.58
50	0.44 (11.2)	2.45 (62.2)	MB50A-X-ND	19.01	35.30	78.75	135.78	217.24
60	0.47 (11.9)	2.95 (74.9)	MB60A-X-ND	21.59	40.10	89.44	154.21	246.74
64	0.50 (12.7)	3.15 (80.0)	MB64A-X-ND	22.88	42.49	94.79	163.43	261.48

* Cable available on xxx foot roll

.025" Gray Flat Cable – 3754 Series

PHYSICAL: • PVC Insulation • 30 AWG Stranded on .025" spacing

ELECTRICAL: • Voltage Rating: 30V • Flammability Rating: USA: VW-1 Canada: FT1

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 105°C

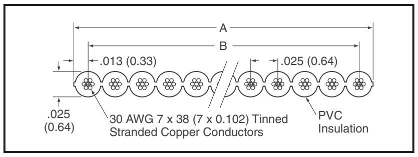

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 Ft.*	10 Ft.*	25 Ft.*	50 Ft.*	100 Ft.*	300 Ft.*
20	0.500 (12.70)	0.475 (12.07)	MB20G-X-ND	3.65	6.77	15.10	26.04	46.87	125.00
26	0.650 (16.51)	0.625 (15.88)	MB26G-X-ND	4.74	8.80	19.63	33.85	60.93	162.48
30	0.750 (19.05)	0.725 (18.42)	MB30G-X-ND	5.47	10.16	22.65	39.06	70.31	187.48
40	1.000 (25.40)	0.975 (24.77)	MB40G-X-ND	7.29	13.54	30.21	52.08	93.74	249.98
50	1.250 (31.75)	1.225 (31.12)	MB50G-X-ND	9.11	16.93	37.76	65.10	117.18	312.48
60	1.500 (38.10)	1.475 (37.47)	MB60G-X-ND	10.94	20.31	45.31	78.12	140.62	374.98
68	1.700 (43.18)	1.675 (42.55)	MB68G-X-ND	12.40	23.02	51.35	88.54	159.37	424.98
80	2.000 (50.80)	1.975 (50.17)	MB80G-X-ND	14.58	27.08	60.41	104.16	187.49	499.96
100	2.500 (63.50)	2.475 (62.87)	MB100G-X-ND	18.23	33.85	75.52	130.20	234.36	624.96

* Cable available on xxx foot roll

Round Conductor Flat Cable – 2049 Series

UL File No.: E42769
AWM Style No.: 20930

PHYSICAL: • .025" pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White

ELECTRICAL: • Voltage Rating: USA: 30V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -40°C ~ 105°C

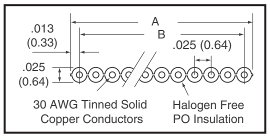
A
B
.013
(0.33)
.025 (0.64)
.025
(0.64)
30 AWG Tinned Solid Copper Conductors
Halogen Free PO Insulation

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
20	0.500 (12.70)	0.475 (12.07)	MB20K-X-ND	6.23	11.56	25.80	44.48	71.16
40	1.000 (25.40)	0.975 (24.77)	MB40K-X-ND	13.13	24.38	54.38	93.75	150.00
50	1.250 (31.75)	1.225 (31.12)	MB50K-X-ND	15.65	29.07	64.85	111.81	178.90
60	1.500 (38.10)	1.475 (20.47)	MB60K-X-ND	18.68	34.69	77.39	133.43	213.48
68	1.700 (43.18)	1.675 (42.55)	MB68K-X-ND	21.17	39.32	87.70	151.21	241.94
80	2.000 (50.80)	1.975 (50.17)	MB80K-X-ND	24.91	46.25	103.18	177.90	284.64
100	2.500 (63.50)	2.475 (62.87)	MB100K-X-ND	31.13	57.81	128.97	222.36	355.78

* Cable available on xxx foot roll

Round Conductor Flat Cable – 3625 Series

UL File No.: E42769
AWM Style No.: 2651

PHYSICAL: • 1.0mm pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray

ELECTRICAL: • Voltage Rating: USA: 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 105°C

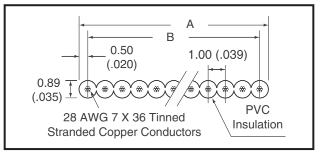

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Meters Pricing 5 M*	10 M*	25 M*	50 M*	100 M*
8	0.315 (8.00)	0.276 (7.00)	MC08L-X-ND	5.96	11.07	24.69	42.56	68.10
14	0.551 (14.00)	0.512 (13.00)	MC14L-X-ND	11.47	21.31	47.53	81.95	131.12
16	0.630 (16.00)	0.591 (15.00)	MC16L-X-ND	13.11	24.35	54.32	93.65	149.84
20	0.787 (20.00)	0.748 (19.00)	MC20L-X-ND	14.90	27.67	61.73	106.43	170.28
22	0.866 (22.00)	0.827 (21.00)	MC22L-X-ND	18.03	33.48	74.69	128.78	206.04
24	0.945 (24.00)	0.906 (23.00)	MC24L-X-ND	19.67	36.53	81.48	140.49	224.78
26	1.024 (26.00)	0.984 (25.00)	MC26L-X-ND	21.30	39.57	88.26	152.18	243.48
30	1.181 (30.00)	1.142 (29.00)	MC30L-X-ND	24.58	45.65	101.84	175.59	280.94
34	1.339 (34.00)	1.299 (33.00)	MC34L-X-ND	27.86	51.74	115.43	199.01	318.42
36	1.417 (36.00)	1.378 (35.00)	MC36L-X-ND	29.50	54.79	122.21	210.71	337.14
40	1.575 (40.00)	1.535 (39.00)	MC40L-X-ND	32.78	60.88	135.80	234.14	374.62

* Cable available on xxx meter roll

D-Subminiature Connectors

Dimensions	
No. of Cont.	A Inch (mm)
9	1.213 (30.81)
15	1.541 (39.14)
25	2.088 (53.04)
37	2.729 (69.32)

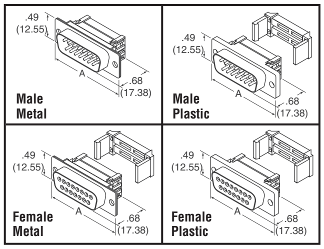

Specifications: • **Insulators:** PBT, glass filled, UL94V-0 • **Insulation resistance:** 1000MΩ @ 500V DC • **Dielectric Voltage:** 1000V 1 minute (Low Profile Version); 500V 1 minute (Plastic Version) • **Current Rating:** 5A (Low Profile Version); 1A (Plastic Version) • **Operating Temperature:** -55°C ~ 105°C

No. of Cont.	Contact Finish	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Female D-Sub Low Profile, Metal Shell					
9	Gold	HFM09H-ND	2.19	1.67	A-DFF09LPXX-III-R
15	Gold	HFM15H-ND	2.50	1.90	A-DFF15LPXX-III-R
25	Gold	HFM25H-ND	2.74	2.08	A-DFF25LPXX-III-R
37	Gold	HFM37H-ND	5.09	3.86	A-DFF37LPXX-III-R
Male D-Sub Low Profile, Metal Shell					
9	Gold	HMM09H-ND	2.19	1.67	A-DSF09LPXX-III-R
15	Gold	HMM15H-ND	2.50	1.90	A-DSF15LPXX-III-R
25	Gold	HMM25H-ND	2.74	2.08	A-DSF25LPXX-III-R
37	Gold	HMM37H-ND	5.09	3.86	A-DSF37LPXX-III-R
Female D-Sub, Full Plastic Version					
9	Gold	HFP09H-ND	2.17	1.65	A-DFF09LPIII/FP-R
15	Gold	HFP15H-ND	2.73	2.08	A-DFF15LPIII/FP-R
25	Gold	HFP25H-ND	2.73	2.08	A-DFF25LPIII/FP-R
37	Gold	HFP37H-ND	5.74	4.35	A-DFF37LPIII/FP-R
Male D-Sub, Full Plastic Version					
9	Gold	HMP09H-ND	2.17	1.65	A-DSF09LPIII/FP-R
15	Gold	HMP15H-ND	2.73	2.08	A-DSF15LPIII/FP-R
25	Gold	HMP25H-ND	2.73	2.08	A-DSF25LPIII/FP-R
37	Gold	HMP37H-ND	5.74	4.35	A-DSF37LPIII/FP-R
Female D-Sub Low Profile with UNC Thread, Metal Shell					
9	Gold	HFU09H-ND	2.53	1.92	A-DFF09LPIII/Z-UNC-R
15	Gold	HFU15H-ND	2.83	2.15	A-DFF15LPIII/Z-UNC-R
25	Gold	HFU25H-ND	3.06	2.33	A-DFF25LPIII/Z-UNC-R
37	Gold	HFU37H-ND	5.36	4.07	A-DFF37LPIII/Z-UNC-R
Male D-Sub Low Profile with UNC Thread, Metal Shell					
9	Gold	HMU09H-ND	2.53	1.92	A-DSF09LPIII/Z-UNC-R
15	Gold	HMU15H-ND	2.83	2.15	A-DSF15LPIII/Z-UNC-R
25	Gold	HMU25H-ND	3.06	2.33	A-DSF25LPIII/Z-UNC-R
37	Gold	HMU37H-ND	5.36	4.07	A-DSF37LPIII/Z-UNC-R

H□□□□-□□□□□-ND

Style
7□□Single Ended

Contact Finish
H = Gold

Ribbon Cable
M=Multi-Color
G=Gray

Length
(*Use "Feet" only.*)

No. of Contacts

D-Sub Cable Assemblies

Single Ended — Male

⁎MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
9	Gold	6 (1.83)	MC	H7MXH-0906M-ND	2.50	1.90
	Gold	6 (1.83)	GR	H7MXH-0906G-ND	2.29	1.74
	Gold	10 (3.05)	MC	H7MXH-0910M-ND	2.72	2.07
	Gold	10 (3.05)	GR	H7MXH-0910G-ND	2.36	1.79
15	Gold	6 (1.83)	MC	H7MXH-1506M-ND	3.29	2.50
	Gold	6 (1.83)	GR	H7MXH-1506G-ND	2.92	2.22
	Gold	10 (3.05)	MC	H7MXH-1510M-ND	3.67	2.79
	Gold	10 (3.05)	GR	H7MXH-1510G-ND	3.05	2.32
25	Gold	6 (1.83)	MC	H7MXH-2506M-ND	3.68	2.79
	Gold	6 (1.83)	GR	H7MXH-2506G-ND	3.08	2.34
	Gold	10 (3.05)	MC	H7MXH-2510M-ND	4.31	3.27
	Gold	10 (3.05)	GR	H7MXH-2510G-ND	3.32	2.52
37	Gold	6 (1.83)	MC	H7MXH-3706M-ND	7.28	5.52
	Gold	6 (1.83)	GR	H7MXH-3706G-ND	6.21	4.71
	Gold	10 (3.05)	MC	H7MXH-3710M-ND	8.30	6.30
	Gold	10 (3.05)	GR	H7MXH-3710G-ND	6.52	4.94

Also available in the following configuration:
H7PXH-□□□□□-ND - Metal with Strain Relief
H7VXH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Single Ended — Female

⁎MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
9	Gold	6 (1.83)	MC	H7FXH-0906M-ND	2.50	1.90
	Gold	6 (1.83)	GR	H7FXH-0906G-ND	2.29	1.74
	Gold	10 (3.05)	MC	H7FXH-0910M-ND	2.72	2.07
	Gold	10 (3.05)	GR	H7FXH-0910G-ND	2.36	1.79
15	Gold	6 (1.83)	MC	H7FXH-1506M-ND	3.29	2.50
	Gold	6 (1.83)	GR	H7FXH-1506G-ND	2.92	2.22
	Gold	10 (3.05)	MC	H7FXH-1510M-ND	3.67	2.79
	Gold	10 (3.05)	GR	H7FXH-1510G-ND	3.05	2.32
25	Gold	6 (1.83)	MC	H7FXH-2506M-ND	3.68	2.79
	Gold	6 (1.83)	GR	H7FXH-2506G-ND	3.08	2.34
	Gold	10 (3.05)	MC	H7FXH-2510M-ND	4.31	3.27
	Gold	10 (3.05)	GR	H7FXH-2510G-ND	3.32	2.52
37	Gold	6 (1.83)	MC	H7FXH-3706M-ND	7.28	5.52
	Gold	6 (1.83)	GR	H7FXH-3706G-ND	6.21	4.71
	Gold	10 (3.05)	MC	H7FXH-3710M-ND	8.30	6.30
	Gold	10 (3.05)	GR	H7FXH-3710G-ND	6.52	4.94

Also available in the following configuration:
H7SXH-□□□□□-ND - Metal with Strain Relief
H7WXH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Male to Male

⁎MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
9	Gold	6 (1.83)	MC	H7MMH-0906M-ND	4.67	3.55
	Gold	6 (1.83)	GR	H7MMH-0906G-ND	4.46	3.39
	Gold	10 (3.05)	MC	H7MMH-0910M-ND	4.89	3.71
	Gold	10 (3.05)	GR	H7MMH-0910G-ND	4.54	3.44
15	Gold	6 (1.83)	MC	H7MMH-1506M-ND	6.03	4.57
	Gold	6 (1.83)	GR	H7MMH-1506G-ND	5.66	4.29
	Gold	10 (3.05)	MC	H7MMH-1510M-ND	6.40	4.86
	Gold	10 (3.05)	GR	H7MMH-1510G-ND	5.78	4.39
25	Gold	6 (1.83)	MC	H7MMH-2506M-ND	6.41	4.87
	Gold	6 (1.83)	GR	H7MMH-2506G-ND	5.82	4.42
	Gold	10 (3.05)	MC	H7MMH-2510M-ND	7.05	5.35
	Gold	10 (3.05)	GR	H7MMH-2510G-ND	6.05	4.59
37	Gold	6 (1.83)	MC	H7MMH-3706M-ND	13.02	9.87
	Gold	6 (1.83)	GR	H7MMH-3706G-ND	11.94	9.06
	Gold	10 (3.05)	MC	H7MMH-3710M-ND	14.04	10.65
	Gold	10 (3.05)	GR	H7MMH-3710G-ND	12.26	9.29

Also available in the following configuration:
H7PPH-□□□□□-ND - Metal with Strain Relief
H7VVH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Female to Female

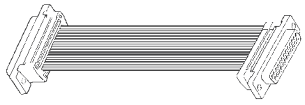

⁎MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
9	Gold	6 (1.83)	MC	H7FFH-0906M-ND	4.67	3.55
	Gold	6 (1.83)	GR	H7FFH-0906G-ND	4.46	3.39
	Gold	10 (3.05)	MC	H7FFH-0910M-ND	4.89	3.71
	Gold	10 (3.05)	GR	H7FFH-0910G-ND	4.54	3.44
15	Gold	6 (1.83)	MC	H7FFH-1506M-ND	6.03	4.57
	Gold	6 (1.83)	GR	H7FFH-1506G-ND	5.66	4.29
	Gold	10 (3.05)	MC	H7FFH-1510M-ND	6.40	4.86
	Gold	10 (3.05)	GR	H7FFH-1510G-ND	5.78	4.39
25	Gold	6 (1.83)	MC	H7FFH-2506M-ND	6.41	4.87
	Gold	6 (1.83)	GR	H7FFH-2506G-ND	5.82	4.42
	Gold	10 (3.05)	MC	H7FFH-2510M-ND	7.05	5.35
	Gold	10 (3.05)	GR	H7FFH-2510G-ND	6.05	4.59
37	Gold	6 (1.83)	MC	H7FFH-3706M-ND	13.02	9.87
	Gold	6 (1.83)	GR	H7FFH-3706G-ND	11.94	9.06
	Gold	10 (3.05)	MC	H7FFH-3710M-ND	14.04	10.65
	Gold	10 (3.05)	GR	H7FFH-3710G-ND	12.26	9.29

Also available in the following configuration:
H7SSH-□□□□□-ND - Metal with Strain Relief
H7WWH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Male to Female

⁎MC=Multi-Color,
GR=Gray

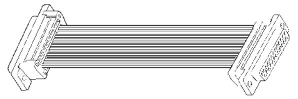

Plastic with Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
9	Gold	6 (1.83)	MC	H7MFH-0906M-ND	4.67	3.55
	Gold	6 (1.83)	GR	H7MFH-0906G-ND	4.46	3.39
	Gold	10 (3.05)	MC	H7MFH-0910M-ND	4.89	3.71
	Gold	10 (3.05)	GR	H7MFH-0910G-ND	4.54	3.44
15	Gold	6 (1.83)	MC	H7MFH-1506M-ND	6.03	4.57
	Gold	6 (1.83)	GR	H7MFH-1506G-ND	5.66	4.29
	Gold	10 (3.05)	MC	H7MFH-1510M-ND	6.40	4.86
	Gold	10 (3.05)	GR	H7MFH-1510G-ND	5.78	4.39
25	Gold	6 (1.83)	MC	H7MFH-2506M-ND	6.41	4.87
	Gold	6 (1.83)	GR	H7MFH-2506G-ND	5.82	4.42
	Gold	10 (3.05)	MC	H7MFH-2510M-ND	7.05	5.35
	Gold	10 (3.05)	GR	H7MFH-2510G-ND	6.05	4.59
37	Gold	6 (1.83)	MC	H7MFH-3706M-ND	13.02	9.87
	Gold	6 (1.83)	GR	H7MFH-3706G-ND	11.94	9.06
	Gold	10 (3.05)	MC	H7MFH-3710M-ND	14.04	10.65
	Gold	10 (3.05)	GR	H7MFH-3710G-ND	12.26	9.29

Also available in the following configuration:
H7PSH-□□□□□-ND - Metal with Strain Relief
H7VWH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Dip Plug Connectors

Specifications:
• **Current Rating:** 1.0A • **Voltage Rating:** 250VAC/DC • **Withstanding Voltage:** 500VAC/DC • **Contact Resistance:** 20mΩ Maximum • **Insulation Resistance:** 1000MΩ Minimum • **Operation Temperature:** -40°C ~ 105°C

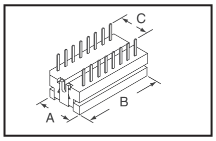

No. of Con-tacts	Dimensions Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10
Dip Plug, Gray — Tin						
10	.42(10.60)	.707(17.95)	.30(7.62)	HDP10S-ND	1.62	1.24
14	.42(10.60)	.907(23.05)	.30(7.62)	HDP14S-ND	1.86	1.41
16	.42(10.60)	1.007(25.50)	.30(7.62)	HDP16S-ND	1.86	1.41
20	.42(10.60)	1.207(30.68)	.30(7.62)	HDP20S-ND	2.21	1.68
24	.72(18.20)	1.407(35.73)	.60(15.24)	HDP24S-ND	2.33	1.77
40	.72(18.20)	2.207(56.20)	.60(15.24)	HDP40S-ND	2.91	2.21
Dip Plug, Gray — Gold						
10	.42(10.60)	.707(17.95)	.30(7.62)	HDP10H-ND	1.62	1.24
14	.42(10.60)	.907(23.05)	.30(7.62)	HDP14H-ND	1.86	1.41
16	.42(10.60)	1.007(25.50)	.30(7.62)	HDP16H-ND	1.86	1.41
20	.42(10.60)	1.207(30.68)	.30(7.62)	HDP20H-ND	2.21	1.68
24	.72(18.20)	1.407(35.73)	.60(15.24)	HDP24H-ND	2.33	1.77
40	.72(18.20)	2.207(56.20)	.60(15.24)	HDP40H-ND	2.91	2.21

Dip Plug Connector Cable Assemblies

Single Ended Style 2

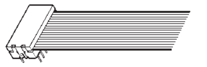

⁎MC=Multi-Color,
GR=Gray

Standard length for single-ended assembly is 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended Style 6

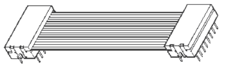

⁎MC=Multi-Color,
GR=Gray

Standard length for double-ended assemblies are 6", 18", and 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended Style 8

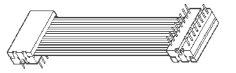

⁎MC=Multi-Color,
GR=Gray

Standard length for double-ended assemblies are 6", 18", and 36"
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

H□□□□-□□□□□-ND

Style
2PX=Single Ended
6PP=Double Ended
8PP=Double Ended

Contact Finish
H = Gold
S = Tin

Ribbon Cable
M=Multi-Color
G=Gray

Length
(Use "Inches" only.)

No. of Contacts

Call for complete part number and pricing

ASSMANN Electronics

Socket Connectors

Specifications: • **Current Rating:** 1.0A • **Contact Resistance:** 20mΩ Maximum • **Withstand Voltage:** 500VAC/DC • **Insulation Resistance:** 1000MΩ Minimum • **Operation Temperature:** -40°C ~ 105°C

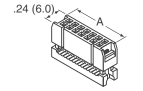

Without Polarizing Key

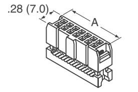

With Polarizing Key

No. of Con-tacts	Dim. A Inch (mm)	Con-tact Finish	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Socket Connector without Polarizing Key						
10	.678 (17.26)	Gold	HSC10H-ND	.52	.40	AWP10-8240-T-R
10	.678 (17.26)	Tin	HSC10S-ND	.52	.40	AWP10-8540-T-R
14	.878 (22.34)	Gold	HSC14H-ND	.63	.48	AWP14-8240-T-R
14	.878 (22.34)	Tin	HSC14S-ND	.63	.48	AWP14-8540-T-R
16	.978 (24.88)	Gold	HSC16H-ND	.63	.48	AWP16-8240-T-R
16	.978 (24.88)	Tin	HSC16S-ND	.63	.48	AWP16-8540-T-R
20	1.177 (29.96)	Gold	HSC20H-ND	.63	.48	AWP20-8240-T-R
24	1.377 (35.04)	Gold	HSC24H-ND	.84	.64	AWP24-8240-T-R
26	1.477 (37.58)	Gold	HSC26H-ND	.63	.48	AWP26-8240-T-R
26	1.477 (37.58)	Tin	HSC26S-ND	.63	.48	AWP26-8540-T-R
30	1.677 (42.66)	Gold	HSC30H-ND	.84	.64	AWP30-8240-T-R
34	1.876 (47.74)	Gold	HSC34H-ND	.63	.48	AWP34-8240-T-R
34	1.876 (47.74)	Tin	HSC34S-ND	.63	.48	AWP34-8540-T-R
40	2.176 (55.36)	Gold	HSC40H-ND	.73	.56	AWP40-8240-T-R
40	2.176 (55.36)	Tin	HSC40S-ND	.73	.56	AWP40-8540-T-R
50	2.675 (68.06)	Gold	HSC50H-ND	.94	.72	AWP50-8240-T-R
60	3.174 (80.74)	Gold	HSC60H-ND	1.67	1.27	AWP60-8240-T-R
64	3.373 (85.82)	Gold	HSC64H-ND	2.93	2.23	AWP64-8240-T-R
Socket Connector with Strain Relief and without Polarizing Key						
10	.678 (17.26)	Gold	HSR10H-ND	.52	.40	AWP10-8241-T-R
10	.678 (17.26)	Tin	HSR10S-ND	.52	.40	AWP10-8541-T-R
14	.878 (22.34)	Gold	HSR14H-ND	.73	.56	AWP14-8241-T-R
16	.978 (24.88)	Gold	HSR16H-ND	.73	.56	AWP16-8241-T-R
20	1.177 (29.96)	Gold	HSR20H-ND	.73	.56	AWP20-8241-T-R
24	1.377 (35.04)	Gold	HSR24H-ND	.94	.72	AWP24-8241-T-R
26	1.477 (37.58)	Gold	HSR26H-ND	.73	.56	AWP26-8241-T-R
26	1.477 (37.58)	Tin	HSR26S-ND	.73	.56	AWP26-8541-T-R
30	1.677 (42.66)	Gold	HSR30H-ND	.94	.72	AWP30-8241-T-R
30	1.677 (42.66)	Tin	HSR30S-ND	.94	.72	AWP30-8541-T-R
34	1.876 (47.74)	Gold	HSR34H-ND	.78	.59	AWP34-8241-T-R
40	2.176 (55.36)	Gold	HSR40H-ND	.84	.64	AWP40-8241-T-R
40	2.176 (55.36)	Tin	HSR40S-ND	.84	.64	AWP40-8541-T-R
50	2.675 (68.06)	Gold	HSR50H-ND	1.11	.85	AWP50-8241-T-R
64	3.373 (85.82)	Gold	HSR64H-ND	3.55	2.70	AWP64-8241-T-R
Socket Connector with Polarizing Key						
10	.678 (17.26)	Gold	HKC10H-ND	.52	.40	AWP10-7240-T-R
10	.678 (17.26)	Tin	HKC10S-ND	.52	.40	AWP10-7540-T-R
14	.878 (22.34)	Gold	HKC14H-ND	.63	.48	AWP14-7240-T-R
14	.878 (22.34)	Tin	HKC14S-ND	.63	.48	AWP14-7540-T-R
16	.978 (24.88)	Gold	HKC16H-ND	.63	.48	AWP16-7240-T-R
16	.978 (24.88)	Tin	HKC16S-ND	.63	.48	AWP16-7540-T-R
20	1.177 (29.96)	Gold	HKC20H-ND	.63	.48	AWP20-7240-T-R
20	1.177 (29.96)	Tin	HKC20S-ND	.63	.48	AWP20-7540-T-R
24	1.377 (35.04)	Gold	HKC24H-ND	.84	.64	AWP24-7240-T-R
24	1.377 (35.04)	Tin	HKC24S-ND	.84	.64	AWP24-7540-T-R
26	1.477 (37.58)	Gold	HKC26H-ND	.63	.48	AWP26-7240-T-R
26	1.477 (37.58)	Tin	HKC26S-ND	.63	.48	AWP26-7540-T-R
30	1.677 (42.66)	Gold	HKC30H-ND	.84	.64	AWP30-7240-T-R
34	1.876 (47.74)	Gold	HKC34H-ND	.63	.48	AWP34-7240-T-R
34	1.876 (47.74)	Tin	HKC34S-ND	.63	.48	AWP34-7540-T-R
40	2.176 (55.36)	Gold	HKC40H-ND	.73	.56	AWP40-7240-T-R
40	2.176 (55.36)	Tin	HKC40S-ND	.73	.56	AWP40-7540-T-R
50	2.675 (68.06)	Gold	HKC50H-ND	.94	.72	AWP50-7240-T-R
50	2.675 (68.06)	Tin	HKC50S-ND	.94	.72	AWP50-7540-T-R
60	3.174 (80.74)	Gold	HKC60H-ND	1.67	1.27	AWP60-7240-T-R
60	3.174 (80.74)	Tin	HKC60S-ND	1.67	1.27	AWP60-7540-T-R
64	3.373 (85.82)	Gold	HKC64H-ND	2.93	2.23	AWP64-7240-T-R
64	3.373 (85.82)	Tin	HKC64S-ND	2.93	2.23	AWP64-7540-T-R
Socket Connector with Strain Relief and Polarizing Key						
10	.678 (17.26)	Gold	HKR10H-ND	.52	.40	AWP10-7241-T-R
10	.678 (17.26)	Tin	HKR10S-ND	.52	.40	AWP10-7541-T-R
14	.878 (22.34)	Gold	HKR14H-ND	.73	.56	AWP14-7241-T-R
14	.878 (22.34)	Tin	HKR14S-ND	.73	.56	AWP14-7541-T-R
16	.978 (24.88)	Gold	HKR16H-ND	.73	.56	AWP16-7241-T-R
16	.978 (24.88)	Tin	HKR16S-ND	.73	.56	AWP16-7541-T-R
20	1.177 (29.96)	Gold	HKR20H-ND	.73	.56	AWP20-7241-T-R
20	1.177 (29.96)	Tin	HKR20S-ND	.73	.56	AWP20-7541-T-R
24	1.377 (35.04)	Gold	HKR24H-ND	.94	.72	AWP24-7241-T-R
24	1.377 (35.04)	Tin	HKR24S-ND	.94	.72	AWP24-7541-T-R
26	1.477 (37.58)	Gold	HKR26H-ND	.73	.56	AWP26-7241-T-R
30	1.677 (42.66)	Gold	HKR30H-ND	.94	.72	AWP30-7241-T-R
34	1.876 (47.74)	Gold	HKR34H-ND	.73	.56	AWP34-7241-T-R
34	1.876 (47.74)	Tin	HKR34S-ND	.73	.56	AWP34-7541-T-R
40	2.176 (55.36)	Gold	HKR40H-ND	.84	.64	AWP40-7241-T-R
40	2.176 (55.36)	Tin	HKR40S-ND	.84	.64	AWP40-7541-T-R
50	2.675 (68.06)	Gold	HKR50H-ND	1.04	.80	AWP50-7241-T-R
60	3.174 (80.74)	Gold	HKR60H-ND	1.99	1.51	AWP60-7241-T-R
60	3.174 (80.74)	Tin	HKR60S-ND	1.99	1.51	AWP60-7541-T-R
64	3.373 (85.82)	Gold	HKR64H-ND	3.55	2.70	AWP64-7241-T-R
64	3.373 (85.82)	Tin	HKR64S-ND	3.55	2.70	AWP64-7541-T-R

H□ □ □ □-□ □ □ □ □-ND

Style
1□□=Single Ended
3□□=Double Ended

Contact Finish
H = Gold
S = Tin

No. of Contacts

Length
(*Use "Inches" only.*)

Ribbon Cable
M=Multi-Color
G=Gray

Single Ended Socket
Socket Assemblies

*MC=Multi-Color,
GR=Gray

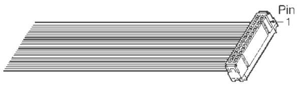

Without Polarizing Key without Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	H1AXH-1036M-ND	2.93	2.23
	Tin	36 (91.44)	MC	H1AXS-1036M-ND	2.93	2.23
	Gold	36 (91.44)	GR	H1AXH-1036G-ND	1.28	.98
	Tin	36 (91.44)	GR	H1AXS-1036G-ND	1.28	.98
14	Gold	36 (91.44)	MC	H1AXH-1436M-ND	3.99	3.03
	Tin	36 (91.44)	MC	H1AXS-1436M-ND	3.99	3.03
	Gold	36 (91.44)	GR	H1AXH-1436G-ND	1.69	1.28
	Tin	36 (91.44)	GR	H1AXS-1436G-ND	1.69	1.28
16	Gold	36 (91.44)	MC	H1AXH-1636M-ND	4.25	3.22
	Tin	36 (91.44)	MC	H1AXS-1636M-ND	4.25	3.22
	Gold	36 (91.44)	GR	H1AXH-1636G-ND	1.84	1.40
	Tin	36 (91.44)	GR	H1AXS-1636G-ND	1.84	1.40
20	Gold	36 (91.44)	MC	H1AXH-2036M-ND	5.17	3.92
	Tin	36 (91.44)	MC	H1AXS-2036M-ND	5.17	3.92
	Gold	36 (91.44)	GR	H1AXH-2036G-ND	2.34	1.78
	Tin	36 (91.44)	GR	H1AXS-2036G-ND	2.34	1.78
24	Gold	36 (91.44)	MC	H1AXH-2436M-ND	6.28	4.77
	Gold	36 (91.44)	GR	H1AXH-2436G-ND	2.45	1.86
26	Gold	36 (91.44)	MC	H1AXH-2636M-ND	6.54	4.96
	Tin	36 (91.44)	MC	H1AXS-2636M-ND	6.54	4.96
	Gold	36 (91.44)	GR	H1AXH-2636G-ND	2.74	2.08
	Tin	36 (91.44)	GR	H1AXS-2636G-ND	2.74	2.08
30	Gold	36 (91.44)	MC	H1AXH-3036M-ND	8.56	6.49
	Gold	36 (91.44)	GR	H1AXH-3036G-ND	3.43	2.60
34	Gold	36 (91.44)	MC	H1AXH-3436M-ND	8.35	6.33
	Tin	36 (91.44)	MC	H1AXS-3436M-ND	8.35	6.33
	Gold	36 (91.44)	GR	H1AXH-3436G-ND	2.91	2.21
	Tin	36 (91.44)	GR	H1AXS-3436G-ND	2.91	2.21
40	Gold	36 (91.44)	MC	H1AXH-4036M-ND	9.97	7.56
	Tin	36 (91.44)	MC	H1AXS-4036M-ND	9.97	7.56
	Gold	36 (91.44)	GR	H1AXH-4036G-ND	3.93	2.98
	Tin	36 (91.44)	GR	H1AXS-4036G-ND	3.93	2.98
50	Gold	36 (91.44)	MC	H1AXH-5036M-ND	12.34	9.36
	Gold	36 (91.44)	GR	H1AXH-5036G-ND	4.30	3.27
60	Gold	36 (91.44)	MC	H1AXH-6036M-ND	15.41	11.69
	Gold	36 (91.44)	GR	H1AXH-6036G-ND	6.22	4.72
64	Gold	36 (91.44)	MC	H1AXH-6436M-ND	17.46	13.24
	Gold	36 (91.44)	GR	H1AXH-6436G-ND	7.85	5.95

Also available in the following configuration:
H1BX□-□□□□□-ND - Without polarizing key, With Strain Relief
H1CX□-□□□□□-ND - With polarizing key, Without Strain Relief
H1DX□-□□□□□-ND - With polarizing key, With Strain Relief
Call for complete part number and pricing

Double Ended Socket

*MC=Multi-Color,
GR=Gray

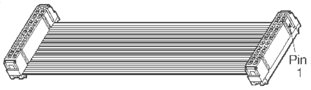

Without Polarizing Key without Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	H3AAH-1006M-ND	1.45	1.10
	Tin	6 (15.24)	MC	H3AAS-1006M-ND	1.45	1.10
	Gold	6 (15.24)	GR	H3AAH-1006G-ND	1.17	.89
	Tin	6 (15.24)	GR	H3AAS-1006G-ND	1.17	.89
	Gold	18 (45.72)	MC	H3AAH-1018M-ND	3.45	2.62
	Tin	18 (45.72)	MC	H3AAS-1018M-ND	3.45	2.62
	Gold	18 (45.72)	GR	H3AAH-1018G-ND	1.81	1.37
	Tin	18 (45.72)	GR	H3AAS-1018G-ND	1.81	1.37
	Gold	36 (91.44)	MC	H3AAH-1036M-ND	3.45	2.62
	Tin	36 (91.44)	MC	H3AAS-1036M-ND	3.45	2.62
	Gold	36 (91.44)	GR	H3AAH-1036G-ND	1.81	1.37
	Tin	36 (91.44)	GR	H3AAS-1036G-ND	1.81	1.37
14	Gold	6 (15.24)	MC	H3AAH-1406M-ND	1.81	1.38
	Tin	6 (15.24)	MC	H3AAS-1406M-ND	1.81	1.38
	Gold	6 (15.24)	GR	H3AAH-1406G-ND	1.43	1.09
	Tin	6 (15.24)	GR	H3AAS-1406G-ND	1.43	1.09
	Gold	18 (45.72)	MC	H3AAH-1418M-ND	4.61	3.50
	Tin	18 (45.72)	MC	H3AAS-1418M-ND	4.61	3.50
	Gold	18 (45.72)	GR	H3AAH-1418G-ND	2.31	1.76
	Tin	18 (45.72)	GR	H3AAS-1418G-ND	2.31	1.76
	Gold	36 (91.44)	MC	H3AAH-1436M-ND	4.61	3.50
	Tin	36 (91.44)	MC	H3AAS-1436M-ND	4.61	3.50
	Gold	36 (91.44)	GR	H3AAH-1436G-ND	2.31	1.76
	Tin	36 (91.44)	GR	H3AAS-1436G-ND	2.31	1.76
16	Gold	6 (15.24)	MC	H3AAH-1606M-ND	1.86	1.41
	Tin	6 (15.24)	MC	H3AAS-1606M-ND	1.86	1.41
	Gold	6 (15.24)	GR	H3AAH-1606G-ND	1.45	1.11
	Tin	6 (15.24)	GR	H3AAS-1606G-ND	1.45	1.11
	Gold	18 (45.72)	MC	H3AAH-1618M-ND	4.87	3.70
	Tin	18 (45.72)	MC	H3AAS-1618M-ND	4.87	3.70
	Gold	18 (45.72)	GR	H3AAH-1618G-ND	2.46	1.87
	Tin	18 (45.72)	GR	H3AAS-1618G-ND	2.46	1.87
	Gold	36 (91.44)	MC	H3AAH-1636M-ND	4.87	3.70
	Tin	36 (91.44)	MC	H3AAS-1636M-ND	4.87	3.70
	Gold	36 (91.44)	GR	H3AAH-1636G-ND	2.46	1.87
	Tin	36 (91.44)	GR	H3AAS-1636G-ND	2.46	1.87
20	Gold	6 (15.24)	MC	H3AAH-2006M-ND	2.01	1.53
	Tin	6 (15.24)	MC	H3AAS-2006M-ND	2.01	1.53
	Gold	6 (15.24)	GR	H3AAH-2006G-ND	1.54	1.17
	Tin	6 (15.24)	GR	H3AAS-2006G-ND	1.54	1.17
	Gold	18 (45.72)	MC	H3AAH-2018M-ND	5.79	4.40
	Tin	18 (45.72)	MC	H3AAS-2018M-ND	5.79	4.40
	Gold	18 (45.72)	GR	H3AAH-2018G-ND	2.97	2.25
	Tin	18 (45.72)	GR	H3AAS-2018G-ND	2.97	2.25
	Gold	36 (91.44)	MC	H3AAH-2036M-ND	5.79	4.40
	Tin	36 (91.44)	MC	H3AAS-2036M-ND	5.79	4.40
	Gold	36 (91.44)	GR	H3AAH-2036G-ND	2.97	2.25
	Tin	36 (91.44)	GR	H3AAS-2036G-ND	2.97	2.25
24	Gold	6 (15.24)	MC	H3AAH-2406M-ND	2.58	1.96
	Gold	6 (15.24)	GR	H3AAH-2406G-ND	1.94	1.48
	Gold	18 (45.72)	MC	H3AAH-2418M-ND	7.12	5.40
	Gold	18 (45.72)	GR	H3AAH-2418G-ND	3.29	2.50
	Gold	36 (91.44)	MC	H3AAH-2436M-ND	7.12	5.40
	Gold	36 (91.44)	GR	H3AAH-2436G-ND	3.29	2.50
26	Gold	6 (15.24)	MC	H3AAH-2606M-ND	2.24	1.70
	Tin	6 (15.24)	MC	H3AAS-2606M-ND	2.24	1.70
	Gold	6 (15.24)	GR	H3AAH-2606G-ND	1.61	1.22
	Tin	6 (15.24)	GR	H3AAS-2606G-ND	1.60	1.21
	Gold	18 (45.72)	MC	H3AAH-2618M-ND	7.16	5.43
	Tin	18 (45.72)	MC	H3AAS-2618M-ND	4.22	3.20
	Gold	18 (45.72)	GR	H3AAH-2618G-ND	3.37	2.56
	Tin	18 (45.72)	GR	H3AAS-2618G-ND	3.37	2.56
	Gold	36 (91.44)	MC	H3AAH-2636M-ND	7.16	5.43
	Tin	36 (91.44)	MC	H3AAS-2636M-ND	7.16	5.43
	Gold	36 (91.44)	GR	H3AAH-2636G-ND	3.37	2.56
	Tin	36 (91.44)	GR	H3AAS-2636G-ND	3.37	2.56
30	Gold	6 (15.24)	MC	H3AAH-3006M-ND	2.96	2.25
	Gold	6 (15.24)	GR	H3AAH-3006G-ND	2.11	1.60
	Gold	18 (45.72)	MC	H3AAH-3018M-ND	9.40	7.13
	Gold	18 (45.72)	GR	H3AAH-3018G-ND	4.26	3.24
	Gold	36 (91.44)	MC	H3AAH-3036M-ND	9.40	7.13
	Gold	36 (91.44)	GR	H3AAH-3036G-ND	4.26	3.24
34	Gold	6 (15.24)	MC	H3AAH-3406M-ND	2.54	1.93
	Tin	6 (15.24)	MC	H3AAS-3406M-ND	2.54	1.93
	Gold	6 (15.24)	GR	H3AAH-3406G-ND	1.63	1.24
	Tin	6 (15.24)	GR	H3AAS-3406G-ND	1.63	1.24
	Gold	18 (45.72)	MC	H3AAH-3418M-ND	8.97	6.81
	Tin	18 (45.72)	MC	H3AAS-3418M-ND	8.97	6.81
	Gold	18 (45.72)	GR	H3AAH-3418G-ND	3.54	2.69
	Tin	18 (45.72)	GR	H3AAS-3418G-ND	3.54	2.69
	Gold	36 (91.44)	MC	H3AAH-3436M-ND	8.97	6.81
	Tin	36 (91.44)	MC	H3AAS-3436M-ND	8.97	6.81
	Gold	36 (91.44)	GR	H3AAH-3436G-ND	3.54	2.69
	Tin	36 (91.44)	GR	H3AAS-3436G-ND	3.54	2.69
40	Gold	6 (15.24)	MC	H3AAH-4006M-ND	3.00	2.28
	Tin	6 (15.24)	MC	H3AAS-4006M-ND	3.00	2.28
	Gold	6 (15.24)	GR	H3AAH-4006G-ND	2.00	1.52
	Tin	6 (15.24)	GR	H3AAS-4006G-ND	2.00	1.52
	Gold	18 (45.72)	MC	H3AAH-4018M-ND	10.70	8.12
	Tin	18 (45.72)	MC	H3AAS-4018M-ND	10.70	8.12
	Gold	18 (45.72)	GR	H3AAH-4018G-ND	4.66	3.54
	Tin	18 (45.72)	GR	H3AAS-4018G-ND	4.66	3.54
	Gold	36 (91.44)	MC	H3AAH-4036M-ND	10.70	8.12
	Tin	36 (91.44)	MC	H3AAS-4036M-ND	10.70	8.12
	Gold	36 (91.44)	GR	H3AAH-4036G-ND	4.66	3.54
	Tin	36 (91.44)	GR	H3AAS-4036G-ND	4.66	3.54
50	Gold	6 (15.24)	MC	H3AAH-5006M-ND	3.78	2.87
	Gold	6 (15.24)	GR	H3AAH-5006G-ND	2.44	1.85
	Gold	18 (45.72)	MC	H3AAH-5018M-ND	13.28	10.07
	Gold	18 (45.72)	GR	H3AAH-5018G-ND	5.24	3.98
	Gold	36 (91.44)	MC	H3AAH-5036M-ND	13.28	10.07
	Gold	36 (91.44)	GR	H3AAH-5036G-ND	5.24	3.98
60	Gold	6 (15.24)	MC	H3AAH-6006M-ND	5.63	4.27
	Gold	6 (15.24)	GR	H3AAH-6006G-ND	4.10	3.11
	Gold	18 (45.72)	MC	H3AAH-6018M-ND	17.08	12.95
	Gold	18 (45.72)	GR	H3AAH-6018G-ND	7.89	5.99
	Gold	36 (91.44)	MC	H3AAH-6036M-ND	17.08	12.95
	Gold	36 (91.44)	GR	H3AAH-6036G-ND	7.89	5.99
64	Gold	6 (15.24)	MC	H3AAH-6406M-ND	8.28	6.28
	Gold	6 (15.24)	GR	H3AAH-6406G-ND	6.68	5.07
	Gold	18 (45.72)	MC	H3AAH-6418M-ND	20.39	15.46
	Gold	18 (45.72)	GR	H3AAH-6418G-ND	10.77	8.17
	Gold	36 (91.44)	MC	H3AAH-6436M-ND	20.39	15.46
	Gold	36 (91.44)	GR	H3AAH-6436G-ND	10.77	8.17

Also available in the following configuration:
H3BB□-□□□□□-ND - Without polarizing key, With Strain Relief
H3CC□-□□□□□-ND - With polarizing key, Without Strain Relief
H3DD□-□□□□□-ND - With polarizing key, With Strain Relief
Call for complete part number and pricing

ASSMANN Electronics

Headers

Specifications: • **Current Rating:** 3A • **Withstand Voltage:** 1000V AC/minute • **Contact Resistance:** 20mΩ Maximum • **Contact Material:** Copper Alloy • **Underplate:** Nickel • **Contact Area:** Selective Gold • **Insulation Resistance:** 5000MΩ Minimum • **Solder Tails Area:** 100μ" Matte Tin • **Operating Temperature:** -40°C ~ 105°C

Right Angle-Lead

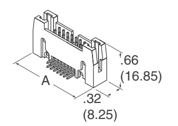

Straight-Lead

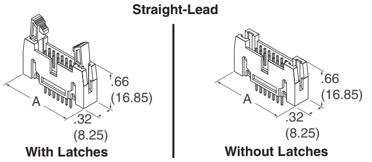

With Latches **Without Latches**

No. of Con-tacts	Post Length Inch(mm)	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50
Straight Pin Header without Latches							
10	.138 (3.5)	1.26 (31.9)	HVN10H-ND	1.62	1.26	1.17	1.07
14	.138 (3.5)	1.46 (36.98)	HVN14H-ND	1.84	1.43	1.34	1.21
16	.138 (3.5)	1.56 (39.52)	HVN16H-ND	1.65	1.38	1.28	1.15
20	.138 (3.5)	1.76 (44.6)	HVN20H-ND	1.85	1.54	1.43	1.29
24	.138 (3.5)	1.96 (49.68)	HVN24H-ND	2.41	2.00	1.85	1.67
26	.138 (3.5)	2.05 (52.15)	HVN26H-ND	2.21	1.84	1.71	1.54
30	.138 (3.5)	2.26 (57.4)	HVN30H-ND	2.60	2.17	2.01	1.81
34	.138 (3.5)	2.46 (62.38)	HVN34H-ND	2.74	2.28	2.11	1.90
40	.138 (3.5)	2.76 (70)	HVN40H-ND	2.99	2.49	2.30	2.07
50	.138 (3.5)	3.26 (82.7)	HVN50H-ND	3.69	3.06	2.87	2.55
60	.138 (3.5)	3.76 (95.6)	HVN60H-ND	4.42	3.66	3.44	3.05
64	.138 (3.5)	3.96 (100.7)	HVN64H-ND	4.61	3.82	3.58	3.18
Straight Pin Header with Short Latches							
10	.138 (3.5)	1.26 (31.9)	HVS10H-ND	1.84	1.43	1.34	1.21
14	.138 (3.5)	1.46 (36.98)	HVS14H-ND	1.70	1.42	1.31	1.18
16	.138 (3.5)	1.56 (39.52)	HVS16H-ND	1.78	1.48	1.37	1.24
20	.138 (3.5)	1.76 (44.6)	HVS20H-ND	2.00	1.66	1.54	1.39
24	.138 (3.5)	1.96 (49.68)	HVS24H-ND	2.53	2.11	1.95	1.76
26	.138 (3.5)	2.05 (52.15)	HVS26H-ND	2.32	1.94	1.79	1.61
30	.138 (3.5)	2.26 (57.4)	HVS30H-ND	2.70	2.25	2.08	1.87
34	.138 (3.5)	2.46 (62.38)	HVS34H-ND	2.86	2.38	2.20	1.98
40	.138 (3.5)	2.76 (70)	HVS40H-ND	3.12	2.59	2.40	2.16
50	.138 (3.5)	3.26 (82.7)	HVS50H-ND	3.82	3.17	2.97	2.64
64	.138 (3.5)	3.96 (100.7)	HVS64H-ND	4.74	3.92	3.68	3.27
Straight Pin Header with Long Latches							
10	.138 (3.5)	1.26 (31.9)	HVL10H-ND	1.84	1.43	1.34	1.21
14	.138 (3.5)	1.46 (36.98)	HVL14H-ND	1.70	1.42	1.31	1.18
16	.138 (3.5)	1.56 (39.52)	HVL16H-ND	1.78	1.48	1.37	1.24
20	.138 (3.5)	1.76 (44.6)	HVL20H-ND	2.00	1.66	1.54	1.39
26	.138 (3.5)	2.05 (52.15)	HVL26H-ND	2.32	1.94	1.79	1.61
34	.138 (3.5)	2.46 (62.38)	HVL34H-ND	2.86	2.38	2.20	1.98
40	.138 (3.5)	2.76 (70)	HVL40H-ND	3.12	2.59	2.40	2.16
50	.138 (3.5)	3.26 (82.7)	HVL50H-ND	3.82	3.17	2.97	2.64
64	.138 (3.5)	3.96 (100.7)	HVL64H-ND	4.74	3.92	3.68	3.27
Right Angle Pin Header without Latches							
10	.169 (4.3)	1.26 (31.9)	HRN10H-ND	1.83	1.52	1.41	1.27
14	.169 (4.3)	1.46 (36.98)	HRN14H-ND	2.00	1.66	1.54	1.39
16	.169 (4.3)	1.56 (39.52)	HRN16H-ND	2.08	1.73	1.60	1.44
20	.169 (4.3)	1.76 (44.6)	HRN20H-ND	2.35	1.95	1.81	1.63
24	.169 (4.3)	1.96 (49.68)	HRN24H-ND	2.91	2.42	2.24	2.02
26	.169 (4.3)	2.05 (52.15)	HRN26H-ND	2.91	2.42	2.24	2.02
30	.169 (4.3)	2.26 (57.4)	HRN30H-ND	3.23	2.69	2.49	2.24
34	.169 (4.3)	2.46 (62.38)	HRN34H-ND	3.04	2.52	2.36	2.10
40	.169 (4.3)	2.76 (70)	HRN40H-ND	3.62	3.00	2.82	2.50
50	.169 (4.3)	3.26 (82.7)	HRN50H-ND	4.43	3.67	3.45	3.06
60	.169 (4.3)	3.76 (95.6)	HRN60H-ND	4.82	3.99	3.74	3.33
64	.169 (4.3)	3.96 (100.7)	HRN64H-ND	5.16	4.28	4.01	3.57
Right Angle Pin Header with Short Latches							
10	.169 (4.3)	1.26 (31.9)	HRS10H-ND	1.95	1.62	1.50	1.35
14	.169 (4.3)	1.46 (36.98)	HRS14H-ND	2.13	1.77	1.64	1.48
16	.169 (4.3)	1.56 (39.52)	HRS16H-ND	2.21	1.84	1.70	1.53
30	.169 (4.3)	2.26 (57.4)	HRS30H-ND	3.01	2.50	2.34	2.08
64	.169 (4.3)	3.96 (100.7)	HRS64H-ND	5.30	4.39	4.12	3.66
Right Angle Pin Header with Long Latches							
10	.169 (4.3)	1.26 (31.9)	HRL10H-ND	1.95	1.62	1.50	1.35
14	.169 (4.3)	1.46 (36.98)	HRL14H-ND	2.13	1.77	1.64	1.48
16	.169 (4.3)	1.56 (39.52)	HRL16H-ND	2.21	1.84	1.70	1.53
20	.169 (4.3)	1.76 (44.6)	HRL20H-ND	2.49	2.07	1.92	1.73
26	.169 (4.3)	2.05 (52.15)	HRL26H-ND	3.02	2.52	2.33	2.10
30	.169 (4.3)	2.26 (57.4)	HRL30H-ND	3.01	2.50	2.34	2.08
34	.169 (4.3)	2.46 (62.38)	HRL34H-ND	3.14	2.61	2.44	2.17
64	.169 (4.3)	3.96 (100.7)	HRL64H-ND	5.30	4.39	4.12	3.66
Lock Ejector Hooks (2 Required per Connector)							
—	Hooks - Long		AE1491-ND	.61	.38	.27	.22
—	Hooks - Short		AE1492-ND	.61	.38	.27	.22

Low Profile Headers

Specifications: • **Current Rating:** 3A • **Withstand Voltage:** 1000V AC/DC • **Contact Resistance:** 20mΩ Maximum • **Contact Material:** Copper Alloy • **Underplate:** Nickel • **Contact Area:** Selective Gold • **Insulation Resistance:** 5000MΩ Minimum • **Solder Tails Area:** 100μ" Matte Tin • **Operating Temperature:** -40°C ~ 105°C

Right Angle

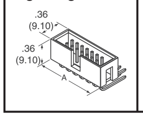

SMT

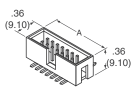

Vertical

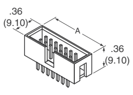

No. of Con-tacts	Contact Finish Gold	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50
Pin Header Right Angle							
10	30μ"	.8 (20.2)	HLU10H-ND	1.77	1.47	1.37	1.23
10	Flash	.8 (20.2)	HLN10H-ND	1.02	.80	.74	.68
14	30μ"	1 (25.28)	HLU14H-ND	2.36	1.97	1.82	1.64
14	Flash	1 (25.28)	HLN14H-ND	1.27	.99	.92	.84
16	30μ"	1.1 (27.82)	HLU16H-ND	2.61	2.18	2.01	1.81
16	Flash	1.1 (27.82)	HLN16H-ND	1.35	1.05	.98	.89
20	30μ"	1.3 (32.9)	HLU20H-ND	2.85	2.37	2.22	1.97
20	Flash	1.3 (32.9)	HLN20H-ND	1.60	1.25	1.16	1.06
24	30μ"	1.5 (37.98)	HLU24H-ND	3.40	2.82	2.64	2.35
24	Flash	1.5 (37.98)	HLN24H-ND	1.89	1.47	1.37	1.25
26	30μ"	1.6 (40.52)	HLU26H-ND	3.63	3.01	2.82	2.51
26	Flash	1.6 (40.52)	HLN26H-ND	1.69	1.41	1.31	1.18
30	30μ"	1.8 (45.6)	HLU30H-ND	4.22	3.50	3.28	2.92
30	Flash	1.8 (45.6)	HLN30H-ND	2.02	1.68	1.56	1.40
34	30μ"	2 (50.68)	HLU34H-ND	4.62	3.83	3.59	3.19
34	Flash	2 (50.68)	HLN34H-ND	2.04	1.70	1.57	1.42
40	30μ"	2.3 (58.3)	HLU40H-ND	5.22	4.32	4.05	3.60
40	Flash	2.3 (58.3)	HLN40H-ND	2.13	1.77	1.64	1.48
50	30μ"	2.8 (71.0)	HLU50H-ND	6.19	5.13	4.81	4.27
50	Flash	2.8 (71.0)	HLN50H-ND	2.64	2.19	2.03	1.83
60	30μ"	3.3 (83.7)	HLU60H-ND	6.44	5.45	5.21	4.71
60	Flash	3.3 (83.7)	HLN60H-ND	2.72	2.26	2.12	1.88
64	30μ"	3.5 (88.78)	HLU64H-ND	7.22	6.11	5.84	5.28
64	Flash	3.5 (88.78)	HLN64H-ND	2.75	2.28	2.14	1.90
Pin Header Surface Mount							
10	Flash	.8 (20.2)	HSL10H-ND	1.80	1.40	1.31	1.19
14	Flash	1 (25.28)	HSL14H-ND	1.75	1.45	1.35	1.21
16	Flash	1.1 (27.82)	HSL16H-ND	1.95	1.62	1.50	1.35
20	Flash	1.3 (32.9)	HSL20H-ND	2.07	1.72	1.60	1.44
26	Flash	1.6 (40.52)	HSL26H-ND	2.11	1.76	1.63	1.47
34	Flash	2 (50.68)	HSL34H-ND	2.23	1.86	1.72	1.55
40	Flash	2.3 (58.3)	HSL40H-ND	2.60	2.16	2.00	1.80
Pin Header Straight Lead							
10	Flash	.8 (20.2)	HRP10H-ND	1.00	.70	.60	.54
14	Flash	1 (25.28)	HRP14H-ND	1.11	.78	.67	.60
16	Flash	1.1 (27.82)	HRP16H-ND	1.22	.86	.74	.66
20	30μ"	1.3 (32.9)	HRU20H-ND	2.70	2.24	2.08	1.87
20	Flash	1.3 (32.9)	HRP20H-ND	1.02	.80	.74	.68
24	30μ"	1.5 (37.98)	HRU24H-ND	2.86	2.37	2.23	1.98
24	Flash	1.5 (37.98)	HRP24H-ND	1.17	.92	.85	.78
26	30μ"	1.6 (40.52)	HRU26H-ND	2.92	2.42	2.27	2.02
26	Flash	1.6 (40.52)	HRP26H-ND	1.06	.82	.77	.70
30	30μ"	1.8 (45.6)	HRU30H-ND	3.47	2.87	2.70	2.40
30	Flash	1.8 (45.6)	HRP30H-ND	1.35	1.05	.98	.89
34	30μ"	2 (50.68)	HRU34H-ND	3.82	3.16	2.97	2.64
34	Flash	2 (50.68)	HRP34H-ND	1.27	.99	.92	.84
40	30μ"	2.3 (58.3)	HRU40H-ND	4.41	3.66	3.43	3.05
40	Flash	2.3 (58.3)	HRP40H-ND	1.39	1.09	1.01	.92
50	30μ"	2.8 (71.0)	HRU50H-ND	5.63	4.66	4.37	3.89
50	Flash	2.8 (71.0)	HRP50H-ND	1.77	1.38	1.28	1.17
60	30μ"	3.3 (83.7)	HRU60H-ND	6.20	5.25	5.01	4.54
60	Flash	3.3 (83.7)	HRP60H-ND	2.05	1.71	1.58	1.42
64	30μ"	3.5 (88.78)	HRU64H-ND	6.55	5.55	5.30	4.79
64	Flash	3.5 (88.78)	HRP64H-ND	2.08	1.73	1.60	1.44

Pin Connectors

Specifications:

• **Current Rating:** 3A • **Withstand Voltage:** 1000V AC/DC • **Contact Resistance:** 20mΩ Maximum • **Contact Material:** Copper Alloy • **Underplate:** Nickel • **Contact Area:** Selective Gold • **Insulation Resistance:** 5000MΩ Minimum • **Solder Tails Area:** 100μ" Matte Tin • **Operating Temperature:** -40°C ~ 105°C

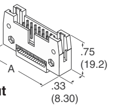

Without Flange

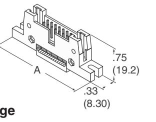

With Flange

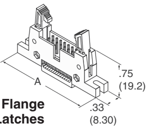

With Flange and Latches

No. of Con-tacts	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Pin Connector without Flange					
10	1.26 (31.96)	HPK10H-ND	4.41	3.35	AWH10G-0202-IDC-R
14	1.46 (37.1)	HPK14H-ND	4.59	3.49	AWH14G-0202-IDC-R
16	1.56 (39.62)	HPK16H-ND	4.59	3.49	AWH16G-0202-IDC-R
20	1.76 (44.74)	HPK20H-ND	4.59	3.49	AWH20G-0202-IDC-R
24	1.96 (49.82)	HPK24H-ND	4.59	3.49	AWH24G-0202-IDC-R
26	2.06 (52.22)	HPK26H-ND	4.85	3.68	AWH26G-0202-IDC-R
30	2.26 (57.46)	HPK30H-ND	4.85	3.68	AWH30G-0202-IDC-R
34	2.46 (62.52)	HPK34H-ND	5.04	3.83	AWH34G-0202-IDC-R
40	2.76 (70.18)	HPK40H-ND	5.34	4.05	AWH40G-0202-IDC-R
50	3.26 (82.74)	HPK50H-ND	5.74	4.36	AWH50G-0202-IDC-R
60	3.77 (95.68)	HPK60H-ND	6.30	4.78	AWH60G-0202-IDC-R
64	3.96 (100.7)	HPK64H-ND	6.67	5.06	AWH64G-0202-IDC-R
Pin Connector with Short Latch without Flange					
10	1.26 (31.96)	HPA10H-ND	4.26	3.53	AWH10G-0222-IDC-R
14	1.46 (37.1)	HPA14H-ND	4.44	3.68	AWH14G-0222-IDC-R
16	1.56 (39.62)	HPA16H-ND	4.44	3.68	AWH16G-0222-IDC-R
26	2.06 (52.22)	HPA26H-ND	3.99	3.31	AWH26G-0222-IDC-R
34	2.46 (62.52)	HPA34H-ND	4.32	3.58	AWH34G-0222-IDC-R
Pin Connector with Long Latch without Flange					
10	1.26 (31.96)	HPB10H-ND	4.45	3.69	AWH10G-0232-IDC-R
16	1.56 (39.62)	HPB16H-ND	4.63	3.84	AWH16G-0232-IDC-R
34	2.46 (62.52)	HPB34H-ND	5.25	4.35	AWH34G-0232-IDC-R
64	3.96 (100.7)	HPB64H-ND	6.15	5.10	AWH64G-0232-IDC-R
Pin Connector with Flange					
10	1.846 (46.96)	HPL10H-ND	4.14	3.15	AWH10G-E202-IDC-R
14	2.048 (52.1)	HPL14H-ND	4.32	3.28	AWH14G-E202-IDC-R
16	2.147 (54.62)	HPL16H-ND	4.32	3.28	AWH16G-E202-IDC-R
20	2.348 (59.74)	HPL20H-ND	4.32	3.28	AWH20G-E202-IDC-R
24	2.547 (64.82)	HPL24H-ND	4.58	3.47	AWH24G-E202-IDC-R
26	2.642 (67.22)	HPL26H-ND	4.85	3.68	AWH26G-E202-IDC-R
30	2.848 (72.46)	HPL30H-ND	4.85	3.68	AWH30G-E202-IDC-R
34	3.047 (77.52)	HPL34H-ND	5.04	3.83	AWH34G-E202-IDC-R
40	3.348 (85.18)	HPL40H-ND	5.34	4.05	AWH40G-E202-IDC-R
50	3.841 (97.74)	HPL50H-ND	6.00	4.55	AWH50G-E202-IDC-R
60	4.35 (10.68)	HPL60H-ND	6.30	4.78	AWH60G-E202-IDC-R
64	4.547 (115.7)	HPL64H-ND	6.97	5.28	AWH64G-E202-IDC-R
Pin Connector with Short Latch and Flange					
10	1.846 (46.96)	HPP10H-ND	4.01	3.32	AWH10G-E222-IDC-R
20	2.348 (59.74)	HPP20H-ND	4.17	3.46	AWH20G-E222-IDC-R
40	3.348 (85.18)	HPP40H-ND	5.20	4.31	AWH40G-E222-IDC-R
Pin Connector with Long Latch and Flange					
10	1.846 (46.96)	HPT10H-ND	4.01	3.32	AWH10G-E232-IDC-R
26	2.642 (67.22)	HPT26H-ND	4.65	3.85	AWH26G-E232-IDC-R
34	3.047 (77.52)	HPT34H-ND	5.03	4.16	AWH34G-E232-IDC-R
40	3.348 (85.18)	HPT40H-ND	5.20	4.31	AWH40G-E232-IDC-R
50	3.841 (97.74)	HPT50H-ND	5.72	4.74	AWH50G-E232-IDC-R
64	4.547 (115.7)	HPT64H-ND	6.15	5.10	AWH64G-E232-IDC-R

Pin Connector Cable Assemblies

Single Ended Style 1

*MC=Multi-Color
GR=Gray

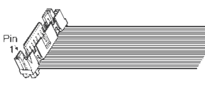

Standard length for single ended assembly is 36"
Pin Connector without flange, without strain relief shown

Double Ended Style 3

*MC=Multi-Color
GR=Gray

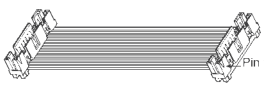

Standard length for double ended assemblies are 6", 18", and 36"
Pin Connector without Strain Relief Shown

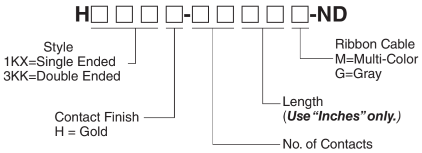

Call for complete part number and pricing

Socket Connector to Pin Connector Cable Assemblies

*MC=Multi-Color
GR=Gray

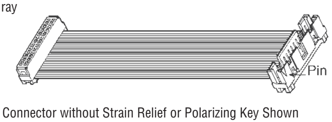

Socket Connector without Strain Relief or Polarizing Key Shown
Pin Connector without Strain Relief or Flange Shown

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	H3AKH-1006M-ND	5.33	4.05
	Gold	6 (15.24)	GR	H3AKH-1006G-ND	5.06	3.84
	Gold	18 (45.72)	MC	H3AKH-1018M-ND	6.14	4.66
	Gold	18 (45.72)	GR	H3AKH-1018G-ND	5.31	4.03
	Gold	36 (91.44)	MC	H3AKH-1036M-ND	7.34	5.57
	Gold	36 (91.44)	GR	H3AKH-1036G-ND	5.69	4.32

(Continued)

ASSMANN Electronics

Socket Connector to Pin Connector Cable Assemblies *(Cont.)*

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
14	Gold	6 (15.24)	MC	H3AKH-1406M-ND	5.78	4.39
	Gold	6 (15.24)	GR	H3AKH-1406G-ND	5.38	4.08
	Gold	18 (45.72)	MC	H3AKH-1418M-ND	6.90	5.24
	Gold	18 (45.72)	GR	H3AKH-1418G-ND	5.75	4.36
	Gold	36 (91.44)	MC	H3AKH-1436M-ND	8.58	6.51
	Gold	36 (91.44)	GR	H3AKH-1436G-ND	6.28	4.77
16	Gold	6 (15.24)	MC	H3AKH-1606M-ND	5.82	4.42
	Gold	6 (15.24)	GR	H3AKH-1606G-ND	5.42	4.11
	Gold	18 (45.72)	MC	H3AKH-1618M-ND	7.03	5.33
	Gold	18 (45.72)	GR	H3AKH-1618G-ND	5.83	4.42
	Gold	36 (91.44)	MC	H3AKH-1636M-ND	8.84	6.71
	Gold	36 (91.44)	GR	H3AKH-1636G-ND	6.43	4.88
20	Gold	6 (15.24)	MC	H3AKH-2006M-ND	5.98	4.54
	Gold	6 (15.24)	GR	H3AKH-2006G-ND	5.51	4.18
	Gold	18 (45.72)	MC	H3AKH-2018M-ND	7.49	5.68
	Gold	18 (45.72)	GR	H3AKH-2018G-ND	6.08	4.61
	Gold	36 (91.44)	MC	H3AKH-2036M-ND	9.76	7.41
	Gold	36 (91.44)	GR	H3AKH-2036G-ND	6.94	5.26
26	Gold	6 (15.24)	MC	H3AKH-2606M-ND	6.47	4.91
	Gold	6 (15.24)	GR	H3AKH-2606G-ND	5.83	4.43
	Gold	18 (45.72)	MC	H3AKH-2618M-ND	8.44	6.40
	Gold	18 (45.72)	GR	H3AKH-2618G-ND	6.54	4.96
	Gold	36 (91.44)	MC	H3AKH-2636M-ND	11.39	8.64
	Gold	36 (91.44)	GR	H3AKH-2636G-ND	7.60	5.76
30	Gold	6 (15.24)	MC	H3AKH-3006M-ND	6.98	5.29
	Gold	6 (15.24)	GR	H3AKH-3006G-ND	6.14	4.66
	Gold	18 (45.72)	MC	H3AKH-3018M-ND	9.55	7.25
	Gold	18 (45.72)	GR	H3AKH-3018G-ND	6.99	5.30
	Gold	36 (91.44)	MC	H3AKH-3036M-ND	13.41	10.17
	Gold	36 (91.44)	GR	H3AKH-3036G-ND	8.28	6.28
34	Gold	6 (15.24)	MC	H3AKH-3406M-ND	6.95	5.28
	Gold	6 (15.24)	GR	H3AKH-3406G-ND	6.05	4.59
	Gold	18 (45.72)	MC	H3AKH-3418M-ND	9.53	7.23
	Gold	18 (45.72)	GR	H3AKH-3418G-ND	6.81	5.17
	Gold	36 (91.44)	MC	H3AKH-3436M-ND	13.39	10.15
	Gold	36 (91.44)	GR	H3AKH-3436G-ND	7.95	6.03
40	Gold	6 (15.24)	MC	H3AKH-4006M-ND	7.61	5.77
	Gold	6 (15.24)	GR	H3AKH-4006G-ND	6.60	5.01
	Gold	18 (45.72)	MC	H3AKH-4018M-ND	10.69	8.11
	Gold	18 (45.72)	GR	H3AKH-4018G-ND	7.67	5.82
	Gold	36 (91.44)	MC	H3AKH-4036M-ND	15.31	11.61
	Gold	36 (91.44)	GR	H3AKH-4036G-ND	9.26	7.03
50	Gold	6 (15.24)	MC	H3AKH-5006M-ND	8.58	6.51
	Gold	6 (15.24)	GR	H3AKH-5006G-ND	7.24	5.50
	Gold	18 (45.72)	MC	H3AKH-5018M-ND	12.39	9.39
	Gold	18 (45.72)	GR	H3AKH-5018G-ND	8.37	6.35
	Gold	36 (91.44)	MC	H3AKH-5036M-ND	18.09	13.72
	Gold	36 (91.44)	GR	H3AKH-5036G-ND	10.05	7.62
60	Gold	6 (15.24)	MC	H3AKH-6006M-ND	10.26	7.78
	Gold	6 (15.24)	GR	H3AKH-6006G-ND	8.73	6.62
	Gold	18 (45.72)	MC	H3AKH-6018M-ND	14.84	11.25
	Gold	18 (45.72)	GR	H3AKH-6018G-ND	10.25	7.77
60	Gold	36 (91.44)	MC	H3AKH-6036M-ND	21.71	16.46
	Gold	36 (91.44)	GR	H3AKH-6036G-ND	12.52	9.49
64	Gold	6 (15.24)	MC	H3AKH-6406M-ND	12.02	9.11
	Gold	6 (15.24)	GR	H3AKH-6406G-ND	10.42	7.90
	Gold	18 (45.72)	MC	H3AKH-6418M-ND	16.87	12.79
	Gold	18 (45.72)	GR	H3AKH-6418G-ND	12.06	9.14
	Gold	36 (91.44)	MC	H3AKH-6436M-ND	24.13	18.30
	Gold	36 (91.44)	GR	H3AKH-6436G-ND	14.52	11.01

Also available in the following configuration:

H3BKH-□□□□□-ND — Socket Connector with Strain Relief, w/o Polarizing Key; Pin Connector w/o Strain Relief or Flange

H3CKH-□□□□□-ND — Socket Connector w/o Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief or Flange

H3DKH-□□□□□-ND — Socket Connector with Strain Relief, and Polarizing Key; Pin Connector w/o Strain Relief or Flange

H3AWH-□□□□□-ND — Socket Connector w/o Strain Relief or Polarizing Key; Pin Connector w/o Strain Relief, with Flange

H3BWH-□□□□□-ND — Socket Connector with Strain Relief, w/o Polarizing Key; Pin Connector w/o Strain Relief with Flange

H3CWH-□□□□□-ND — Socket Connector w/o Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief with Flange

H3DWH-□□□□□-ND — Socket Connector with Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief with Flange

Call for complete part number and pricing

Dip Plugs .1” x .1”

Specifications:

- **Current Rating:** 3A
- **Voltage Rating:** 500VAC/DC
- **Withstand Voltage:** 500VAC/DC
- **Contact Resistance:** 20mΩ Maximum
- **Insulation Resistance:** 1000MΩ Minimum
- **Operation Temperature:** -40°C ~ 105°C

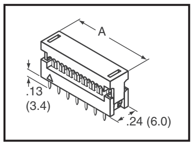

No. of Contacts	Contact Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		Assmann Part No.
				1	10	
10	Gold	0.71 (18.1)	HDM10H-ND	.94	.72	AWLP-10/3.2-G-R
14	Gold	0.91 (23.05)	HDM14H-ND	.94	.72	AWLP-14/3.2-G-R
16	Gold	1.01 (25.64)	HDM16H-ND	.94	.72	AWLP-16/3.2-G-R
20	Gold	1.21 (30.78)	HDM20H-ND	1.04	.80	AWLP-20/3.2-G-R
24	Gold	1.41 (35.86)	HDM24H-ND	1.36	1.03	AWLP-24/3.2-G-R
26	Gold	1.51 (38.4)	HDM26H-ND	1.04	.80	AWLP-26/3.2-G-R
30	Gold	1.71 (43.5)	HDM30H-ND	1.36	1.03	AWLP-30/3.2-G-R
34	Gold	1.91 (48.58)	HDM34H-ND	1.36	1.03	AWLP-34/3.2-G-R
40	Gold	2.21 (56.2)	HDM40H-ND	1.36	1.03	AWLP-40/3.2-G-R
50	Gold	2.72 (69.0)	HDM50H-ND	1.78	1.35	AWLP-50/3.2-G-R
10	Tin	0.71 (18.1)	HDM10S-ND	.94	.72	AWLP-10/3.2-T-R
14	Tin	0.91 (23.05)	HDM14S-ND	.94	.72	AWLP-14/3.2-T-R
16	Tin	1.01 (25.64)	HDM16S-ND	.94	.72	AWLP-16/3.2-T-R
20	Tin	1.21 (30.78)	HDM20S-ND	1.04	.80	AWLP-20/3.2-T-R
24	Tin	1.41 (35.86)	HDM24S-ND	1.36	1.03	AWLP-24/3.2-T-R
26	Tin	1.51 (38.4)	HDM26S-ND	1.15	.88	AWLP-26/3.2-T-R
30	Tin	1.71 (43.5)	HDM30S-ND	1.36	1.03	AWLP-30/3.2-T-R
34	Tin	1.91 (48.58)	HDM34S-ND	1.36	1.03	AWLP-34/3.2-T-R
40	Tin	2.21 (56.2)	HDM40S-ND	1.78	1.35	AWLP-40/3.2-T-R
50	Tin	2.72 (69.0)	HDM50S-ND	1.78	1.35	AWLP-50/3.2-T-R

Dip Plugs .1” x .1” Cable Assemblies

Single Ended Style 2

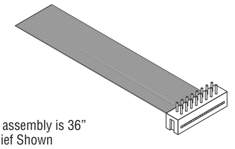

*MC=Multi-Color
GR=Gray

Standard length for single ended assembly is 36”
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended Style 6

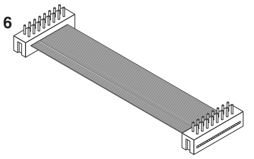

*MC=Multi-Color
GR=Gray

Standard length for double ended assemblies are 6”, 18”, and 36”
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

Double Ended Style 8

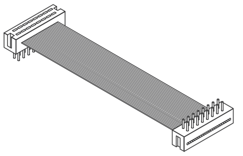

*MC=Multi-Color
GR=Gray

Connector Finish: Tin

Standard length for double ended assemblies are 6”, 18”, and 36”
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

H□ □ □ □-□ □ □ □ □-ND

Style
2MX=Single Ended
6MM=Double Ended
8MM=Double Ended

Contact Finish
H = Gold
S = Tin

No. of Contacts

Length
(***Use “Inches” only.***)

Ribbon Cable
M=Multi-Color
G=Gray

Call for complete part number and pricing

SULLINS CONNECTOR SOLUTIONS

.1” IDC Socket Connectors

Features: • Insulator Material: PBT 30% Glass Fiber • Contact Material: Phosphor Bronze • Operating Temperature: -40°C ~ 105°C • UL Flammability Rating: 94V-0 • Current Rating: 1Amp • Insulation Resistance: 3,000MΩ minimum • Contact Resistance: 30mΩ maximum • Dielectric Withstanding: 500 VAC • Mates with SBH11 Series • For 1.27mm Pitch Flat Ribbon Cable • Plating: Gold Flash

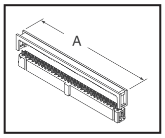

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each	
			1	10
Without Strain Relief, With Polarizing Key				
10	0.680 (17.26)	S9286-ND	.37	.34
14	0.880 (22.34)	S9287-ND	.54	.49
16	0.980 (24.88)	S9288-ND	.57	.51
20	1.180 (29.96)	S9289-ND	.60	.54
24	1.380 (35.04)	S9290-ND	.91	.82
26	1.480 (37.58)	S9291-ND	.86	.77
30	1.680 (42.66)	S9292-ND	.97	.87
34	1.880 (47.74)	S9293-ND	.86	.77
40	2.180 (55.36)	S9294-ND	1.00	.90
50	2.680 (68.06)	S9295-ND	1.23	1.10
Without Strain Relief, Without Polarizing Key				
10	0.680 (17.26)	S9296-ND	.43	.39
14	0.880 (22.34)	S9297-ND	.63	.57
16	0.980 (24.88)	S9298-ND	.68	.62
20	1.180 (29.96)	S9299-ND	.74	.67
24	1.380 (35.04)	S9300-ND	1.08	.97
26	1.480 (37.58)	S9301-ND	1.03	.92
30	1.680 (42.66)	S9302-ND	1.17	1.05
34	1.880 (47.74)	S9303-ND	1.08	.97
40	2.180 (55.36)	S9304-ND	1.28	1.15
50	2.680 (68.06)	S9305-ND	1.57	1.41
With Strain Relief, With Polarizing Key				
10	0.680 (17.26)	S9306-ND	.43	.39
14	0.880 (22.34)	S9307-ND	.63	.57
16	0.980 (24.88)	S9308-ND	.68	.62
20	1.180 (29.96)	S9309-ND	.74	.67
24	1.380 (35.04)	S9310-ND	1.08	.97
26	1.480 (37.58)	S9311-ND	1.03	.92
30	1.680 (42.66)	S9312-ND	1.17	1.05
34	1.880 (47.74)	S9313-ND	1.08	.97
40	2.180 (55.36)	S9314-ND	1.28	1.15
50	2.680 (68.06)	S9315-ND	1.57	1.41
60	3.179 (80.74)	S9316-ND	2.19	1.97
64	3.379 (85.82)	S9317-ND	2.94	2.63
With Strain Relief, Without Polarizing Key				
10	0.680 (17.26)	S9318-ND	.43	.39
14	0.880 (22.34)	S9319-ND	.63	.57
16	0.980 (24.88)	S9320-ND	.68	.62
20	1.180 (29.96)	S9321-ND	.74	.67
24	1.380 (35.04)	S9322-ND	1.08	.97
26	1.480 (37.58)	S9323-ND	1.03	.92
30	1.680 (42.66)	S9324-ND	1.17	1.05
34	1.880 (47.74)	S9325-ND	1.08	.97
40	2.180 (55.36)	S9326-ND	1.28	1.15
50	2.680 (68.06)	S9327-ND	1.57	1.41

.1” IDC Dip Plugs

Features: • Insulator Material: PBT 30% Glass Fiber • Contact Material: Phosphor Bronze • Operating Temperature: -40°C ~ 105°C • UL Flammability Rating: 94V-0 • Current Rating: 1Amp • Insulation Resistance: 5,000MΩ minimum • Contact Resistance: 30mΩ maximum • Dielectric Withstanding: 1,000 VAC • Mates with SBH11 Series • For 1.27mm Pitch Flat Ribbon Cable • Plating: Gold Flash

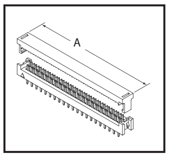

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each	
			1	10
10	0.713 (18.10)	S9328-ND	.71	.64
14	0.907 (23.05)	S9329-ND	.80	.72
16	1.009 (25.64)	S9330-ND	.83	.74
20	1.212 (30.78)	S9331-ND	.91	.82
26	1.512 (38.40)	S9332-ND	1.23	1.10
30	1.713 (43.50)	S9333-ND	1.43	1.28
34	1.913 (48.58)	S9334-ND	1.31	1.18
40	2.213 (56.20)	S9335-ND	1.37	1.23
50	2.717 (69.00)	S9336-ND	1.68	1.51

OMRON

XG5 Discrete and XG4 IDC Connectors

XG5: Discrete Wire Connectors

Omrons's XG5 discrete wire termination connectors are trouble free IDC connectors that accommodate individual wires with a quick and reliable IDC connection. Press fitting connections (IDC) are faster than crimping and more reliable thus reducing man-hours and improving yield. The contacts are built into the connectors thereby reducing required parts count, storage and have a large current rating (3A). By using the simple unique lock-lever system, these connectors can be locked to the XG4A Locking Header or the XG4C Low Profile Box Headers.

Features: • MIL Plugs discrete wiring capability • Adaptable to a variety of covers for space-saving and discrete wire termination • Conforms to UL standards (file no. E 103202) and CSA standards (file no. LR 62678)

Specifications: • Rated Current: 3A • Rated Voltage: 300VAC • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 650VAC for 1 minute • Insertion Durability: 50 times • Ambient Temperature (Operating): -55°C ~ 85°C

XG4: Ribbon Cable Connectors

Omron's Industry standard ribbon cable connectors conform to MIL standards (MIL-C-83503) and offer cable connections for both female socket connectors and male header connections. Unique locking latch options ensure reliable connector mating in high vibration or hard to access area's. Protected headers are available in Vertical PCB, Right Angle PCB and an IDC cable mounted version. Box-type headers are intended for low profile applications and space saving requirements. All XG4 connectors have a polarizing slot thereby preventing connectors from being plugged in either direction.

Features: • UL recognition (File No. E103202)

Specifications: • Rated Current: XG4M and XG4E: 1A; XG4A and XG4C: 3A (rated current will depend on the socket you are using) • Rated Voltage: XG4M and XG4E: 250VAC; XG4A and XG4C: 300VAC • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum • Ambient Temperature (Operating): -55°C ~ 105°C

XG5 Discrete Wire Connectors

Fig. 1 — Double Row Wire Sockets

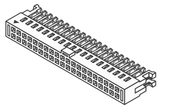

Fig. 2 — Cover

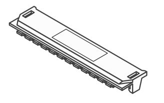

Fig. 3 — Crimp Tool

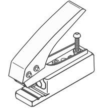

XG4 Ribbon Cable Connectors

Fig. 4 — Vertical Header

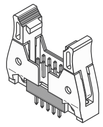

Fig. 5 — Right Angle Header

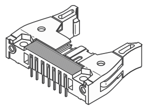

Fig. 6 — Dual Header

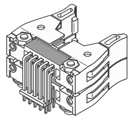

Fig. 7 — Vertical Box Header

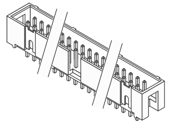

Fig. 8 — Right Angle Box Header

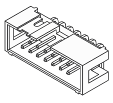

Fig. 9 — IDC Header

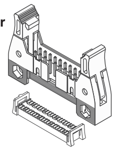

Fig. 10

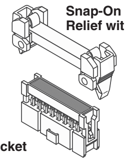

Snap-On Strain Relief with Locks

IDC Socket

Fig. 11 — Locking Lever for Box Headers

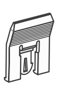

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each			Omron Part No.
				1	25	50	
		XG5 Discrete Wire Connectors					
1	10	Double Row Discrete Wire Sockets, 24AWG	OR937-ND	2.52	2.28	2.02	XG5M-1032-N
	16	Double Row Discrete Wire Sockets, 24AWG	OR938-ND	3.29	2.96	2.63	XG5M-1632-N
	30	Double Row Discrete Wire Sockets, 24AWG	OR993-ND	3.74	3.37	3.00	XG5M-3032-N
	34	Double Row Discrete Wire Sockets, 24AWG	OR981-ND	4.21	3.79	3.37	XG5M-3432-N
	40	Double Row Discrete Wire Sockets, 24AWG	OR939-ND	5.01	4.51	4.01	XG5M-4032-N
	50	Double Row Discrete Wire Sockets, 24AWG	OR982-ND	7.03	6.34	5.63	XG5M-5032-N
	60	Double Row Discrete Wire Sockets, 24AWG	OR983-ND	6.54	5.89	5.24	XG5M-6032-N
		XG5 Accessories					
2	2x 5	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR940-ND	.30	.27	.24	XG5S-0501
	2x 8	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR941-ND	.34	.31	.27	XG5S-0801
	2x 15	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR942-ND	.34	.31	.27	XG5S-1501
	2x 17	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR943-ND	.30	.27	.24	XG5S-1701
	2x 20	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR944-ND	.39	.35	.32	XG5S-2001
	2x 25	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR945-ND	.39	.35	.32	XG5S-2501
	2x 30	Compact Semi-Cover for XG5 (2 Required/Conn.)	OR946-ND	.34	.31	.28	XG5S-3001
3	—	Handheld IDC Crimp Tool	OR947-ND	129.96	—	—	XY2B-7006
		XG4 Ribbon Cable Connectors					
4	10	Header Plug with Long Lock, Straight PCB Term.	OR880-ND	.91	.83	.74	XG4A-1031
	14	Header Plug with Long Lock, Straight PCB Term.	OR881-ND	1.05	.95	.84	XG4A-1431
	16	Header Plug with Long Lock, Straight PCB Term.	OR884-ND	1.08	.97	.87	XG4A-1631
	20	Header Plug with Long Lock, Straight PCB Term.	OR885-ND	1.20	1.08	.96	XG4A-2031
	26	Header Plug with Long Lock, Straight PCB Term.	OR887-ND	1.36	1.23	1.09	XG4A-2631
	30	Header Plug with Long Lock, Straight PCB Term.	OR888-ND	1.49	1.34	1.20	XG4A-3031
	34	Header Plug with Long Lock, Straight PCB Term.	OR890-ND	1.67	1.50	1.34	XG4A-3431
	40	Header Plug with Long Lock, Straight PCB Term.	OR892-ND	1.87	1.69	1.50	XG4A-4031
	50	Header Plug with Long Lock, Straight PCB Term.	OR894-ND	2.22	2.01	1.78	XG4A-5031
	60	Header Plug with Long Lock, Straight PCB Term.	OR963-ND	2.51	2.27	2.02	XG4A-6031
	64	Header Plug with Long Lock, Straight PCB Term.	OR965-ND	2.90	2.62	2.33	XG4A-6431
5	10	Header Plug with Long Lock, R/A PCB Terminal	OR1001-ND	.91	.83	.74	XG4A-1034
	14	Header Plug with Long Lock, R/A PCB Terminal	OR882-ND	1.05	.95	.84	XG4A-1434
	16	Header Plug with Long Lock, R/A PCB Terminal	OR990-ND	1.08	.97	.87	XG4A-1634
	20	Header Plug with Long Lock, R/A PCB Terminal	OR886-ND	1.20	1.08	.96	XG4A-2034
	26	Header Plug with Long Lock, R/A PCB Terminal	OR961-ND	1.36	1.23	1.09	XG4A-2634
	30	Header Plug with Long Lock, R/A PCB Terminal	OR889-ND	1.49	1.34	1.20	XG4A-3034
	34	Header Plug with Long Lock, R/A PCB Terminal	OR891-ND	1.67	1.50	1.34	XG4A-3434
	40	Header Plug with Long Lock, R/A PCB Terminal	OR893-ND	1.87	1.69	1.50	XG4A-4034
	50	Header Plug with Long Lock, R/A PCB Terminal	OR962-ND	2.22	2.01	1.78	XG4A-5034
	60	Header Plug with Long Lock, R/A PCB Terminal	OR964-ND	2.51	2.27	2.02	XG4A-6034
	64	Header Plug with Long Lock, R/A PCB Terminal	OR966-ND	2.90	2.62	2.33	XG4A-6434
6	10 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR1000-ND	3.92	3.54	3.14	XG4A-1039-A
	14 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR883-ND	4.37	3.94	3.50	XG4A-1439-A
	16 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR879-ND	4.80	4.33	3.85	XG4A-1639-A
	20 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR989-ND	5.24	4.72	4.19	XG4A-2039-A
	26 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR953-ND	6.54	5.89	5.24	XG4A-2639-A
	30 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR954-ND	6.98	6.29	5.59	XG4A-3039-A
	34 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR959-ND	7.86	7.08	6.29	XG4A-3439-A
	40 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR960-ND	8.73	7.86	6.99	XG4A-4039-A
	50 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR955-ND	10.47	9.43	8.38	XG4A-5039-A
	60 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR956-ND	12.22	11.00	9.78	XG4A-6039-A
	64 x 2	Dual Header Plug with Long Lock, R/A PCB Term.	OR895-ND	12.94	11.65	10.36	XG4A-6439-A
7	10	Box-Type Header Plug, Straight PCB Terminal	OR896-ND	.83	.75	.67	XG4C-1031
	14	Box-Type Header Plug, Straight PCB Terminal	OR898-ND	.94	.85	.76	XG4C-1431
	16	Box-Type Header Plug, Straight PCB Terminal	OR958-ND	.97	.88	.78	XG4C-1631
	20	Box-Type Header Plug, Straight PCB Terminal	OR899-ND	1.08	.97	.87	XG4C-2031
	26	Box-Type Header Plug, Straight PCB Terminal	OR901-ND	1.22	1.11	.98	XG4C-2631
	30	Box-Type Header Plug, Straight PCB Terminal	OR994-ND	1.34	1.21	1.07	XG4C-3031
	34	Box-Type Header Plug, Straight PCB Terminal	OR984-ND	1.50	1.35	1.20	XG4C-3431
	40	Box-Type Header Plug, Straight PCB Terminal	OR950-ND	1.69	1.52	1.35	XG4C-4031
	50	Box-Type Header Plug, Straight PCB Terminal	OR986-ND	2.00	1.81	1.61	XG4C-5031
	60	Box-Type Header Plug, Straight PCB Terminal	OR968-ND	2.26	2.04	1.82	XG4C-6031
	64	Box-Type Header Plug, Straight PCB Terminal	OR970-ND	2.61	2.35	2.09	XG4C-6431
8	10	Box-Type Header Plug, R/A PCB Terminal	OR897-ND	.83	.75	.67	XG4C-1034
	14	Box-Type Header Plug, R/A PCB Terminal	OR985-ND	.94	.85	.76	XG4C-1434
	16	Box-Type Header Plug, R/A PCB Terminal	OR957-ND	.97	.88	.78	XG4C-1634
	20	Box-Type Header Plug, R/A PCB Terminal	OR900-ND	1.08	.97	.87	XG4C-2034
	26	Box-Type Header Plug, R/A PCB Terminal	OR902-ND	1.22	1.11	.98	XG4C-2634
	30	Box-Type Header Plug, R/A PCB Terminal	OR995-ND	1.34	1.21	1.07	XG4C-3034
	34	Box-Type Header Plug, R/A PCB Terminal	OR903-ND	1.50	1.35	1.20	XG4C-3434
	40	Box-Type Header Plug, R/A PCB Terminal	OR904-ND	1.69	1.52	1.35	XG4C-4034
	50	Box-Type Header Plug, R/A PCB Terminal	OR967-ND	2.00	1.81	1.61	XG4C-5034
	60	Box-Type Header Plug, R/A PCB Terminal	OR969-ND	2.26	2.04	1.82	XG4C-6034
	64	Box-Type Header Plug, R/A PCB Terminal	OR971-ND	2.61	2.35	2.09	XG4C-6434
9	10	IDC Cable Mount Header Plug, with Long Locks	OR999-ND	3.59	3.23	2.87	XG4E-1031
	14	IDC Cable Mount Header Plug, with Long Locks	OR997-ND	3.78	3.41	3.03	XG4E-1431
	16	IDC Cable Mount Header Plug, with Long Locks	OR998-ND	4.06	3.65	3.25	XG4E-1631
	20	IDC Cable Mount Header Plug, with Long Locks	OR991-ND	4.22	3.80	3.38	XG4E-2031
	26	IDC Cable Mount Header Plug, with Long Locks	OR972-ND	5.36	4.83	4.29	XG4E-2631
	30	IDC Cable Mount Header Plug, with Long Locks	OR905-ND	5.61	5.05	4.49	XG4E-3031
	34	IDC Cable Mount Header Plug, with Long Locks	OR906-ND	4.91	4.42	3.93	XG4E-3431
	40	IDC Cable Mount Header Plug, with Long Locks	OR973-ND	6.26	5.64	5.01	XG4E-4031
	50	IDC Cable Mount Header Plug, with Long Locks	OR907-ND	5.63	5.07	4.51	XG4E-5031
	60	IDC Cable Mount Header Plug, with Long Locks	OR974-ND	6.13	5.52	4.91	XG4E-6031
	64	IDC Cable Mount Header Plug, with Long Locks	OR975-ND	6.34	5.71	5.08	XG4E-6431
10	10	IDC Socket, One Polarizing Guide	OR908-ND	.71	.65	.58	XG4M-1030
	10	IDC Socket with Strain Relief Set	OR909-ND	.89	.80	.71	XG4M-1030-T
	10	IDC Socket with Strain Relief and Locks	OR910-ND	1.38	1.25	1.11	XG4M-1030-U
	14	IDC Socket, One Polarizing Guide	OR911-ND	.76	.69	.61	XG4M-1430
	14	IDC Socket with Strain Relief Set	OR912-ND	1.09	.99	.88	XG4M-1430-T
	14	IDC Socket with Strain Relief and Locks	OR913-ND	1.62	1.46	1.30	XG4M-1430-U
	16	IDC Socket, One Polarizing Guide	OR914-ND	.92	.83	.74	XG4M-1630
	16	IDC Socket with Strain Relief Set	OR976-ND	1.14	1.03	.92	XG4M-1630-T
	16	IDC Socket with Strain Relief and Locks	OR915-ND	1.75	1.58	1.40	XG4M-1630-U
	20	IDC Socket, One Polarizing Guide	OR916-ND	.97	.88	.78	XG4M-2030
	20	IDC Socket with Strain Relief Set	OR917-ND	1.19	1.08	.96	XG4M-2030-T
	20	IDC Socket with Strain Relief and Locks	OR949-ND	2.00	1.81	1.61	XG4M-2030-U
	26	IDC Socket, One Polarizing Guide	OR918-ND	1.23	1.11	.99	XG4M-2630
	26	IDC Socket with Strain Relief Set	OR919-ND	1.53	1.38	1.23	XG4M-2630-T
	26	IDC Socket with Strain Relief and Locks	OR920-ND	2.36	2.13	1.89	XG4M-2630-U
	30	IDC Socket, One Polarizing Guide	OR921-ND	1.35	1.22	1.08	XG4M-3030
	30	IDC Socket with Strain Relief Set	OR992-ND	1.68	1.52	1.35	XG4M-3030-T
	30	IDC Socket with Strain Relief and Locks	OR996-ND	2.61	2.35	2.09	XG4M-3030-U
	34	IDC Socket with Strain Relief Set	OR977-ND	2.00	1.81	1.61	XG4M-3430-T
	34	IDC Socket with Strain Relief and Locks	OR922-ND	2.85	2.57	2.28	XG4M-3430-U
	40	IDC Socket, One Polarizing Guide	OR923-ND	1.46	1.32	1.17	XG4M-4030
	40	IDC Socket with Strain Relief Set	OR924-ND	1.82	1.64	1.46	XG4M-4030-T
	40	IDC Socket with Strain Relief and Locks	OR948-ND	3.22	2.90	2.58	XG4M-4030-U
	50	IDC Socket, One Polarizing Guide	OR925-ND	1.90	1.71	1.52	XG4M-5030
	50	IDC Socket with Strain Relief Set	OR987-ND	2.38	2.14	1.91	XG4M-5030-T
	50	IDC Socket with Strain Relief and Locks	OR988-ND	3.84	3.46	3.08	XG4M-5030-U
	60	IDC Socket with Strain Relief Set	OR978-ND	2.61	2.36	2.09	XG4M-6030-T
	60	IDC Socket with Strain Relief and Locks	OR979-ND	4.45	4.01	3.57	XG4M-6030-U
	64	IDC Socket with Strain Relief Set	OR980-ND	3.01	2.71	2.41	XG4M-6430-T
	64	IDC Socket with Strain Relief and Locks	OR926-ND	5.48	4.94	4.39	XG4M-6430-U
	10	Snap-On Strain Relief with Locks (Optional)	OR927-ND	.41	.38	.34	XG4S-1004
	14	Snap-On Strain Relief with Locks (Optional)	OR928-ND	.46	.42	.37	XG4S-1404
	16	Snap-On Strain Relief with Locks (Optional)	OR929-ND	.51	.47	.41	XG4S-1604
	20	Snap-On Strain Relief with Locks (Optional)	OR930-ND	.51	.47	.41	XG4S-2004
	26	Snap-On Strain Relief with Locks (Optional)	OR931-ND	.54	.49	.44	XG4S-2604
	30	Snap-On Strain Relief with Locks (Optional)	OR932-ND	.51	.47	.41	XG4S-3004
	34	Snap-On Strain Relief with Locks (Optional)	OR933-ND	.51	.47	.41	XG4S-3404
	40	Snap-On Strain Relief with Locks (Optional)	OR952-ND	.51	.47	.41	XG4S-4004
	50	Snap-On Strain Relief with Locks (Optional)	OR951-ND	.61	.56	.50	XG4S-5004
	60	Snap-On Strain Relief with Locks (Optional)	OR934-ND	.56	.51	.46	XG4S-6004
	64	Snap-On Strain Relief with Locks (Optional)	OR935-ND	.61	.55	.49	XG4S-6404
		XG4 Accessories					
11	—	Lock Lever II for XG4C Box Headers	OR936-ND	.46	.42	.37	XG4Z-0002

3M Mini D Ribbon (MDR) Connectors

Fig. 1 — IDC Wiremount

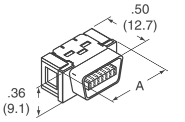

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • Wire Accommodation: Gray: 26AWG Solid, Black: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector

Fig. 2 — Solder Connector

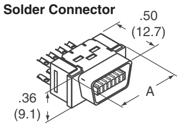

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ” minimum Gold • Solder Area: Tin-Lead • Wire Accommodation: 24, 26, 28 and 30AWG

Note: Use only unshielded backshell 103xx-52F0-008 or 103xx-52A0-008

Fig. 3 — Boardmount Thru-Hole Right Angle

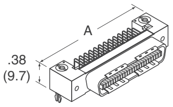

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • IEEE 1284C Interface as a 36 Contact Connector

Fig. 4 — IDC Wiremount Panelmount

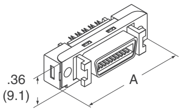

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • Wire Accommodation: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 5 — Boardmount Thru-Hole Right Angle

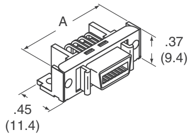

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • Interface latch

Fig. 6 — Boardmount Thru-Hole Vertical

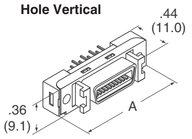

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 7 — Surface Mount Right Angle

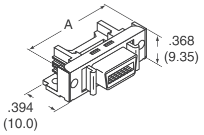

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ” minimum Gold • Interface latch

Fig. 8 — Surface Mount Right Angle

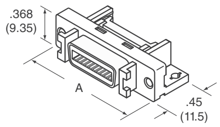

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ” minimum Gold • Interface latch

Fig. 9 — Boardmount Compliant Pin Vertical

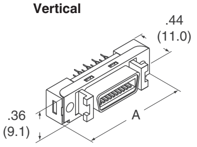

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ” minimum Gold • Tails: Gold Flash

Fig. 10 — Plastic Shielded Junction Shell for Round Cable

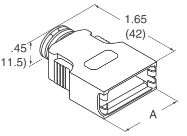

- Outer Shell Material: ABS • UL 94V-0 • Inner Shell Material: Steel, .020” • Plating: Nickel

Fig. 11 — Plastic Solder Junction Shell, Non-Shielded

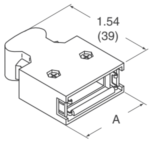

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Quick release metal latching mechanism

Fig. 12 — Metal Junction Shell for Round Cable

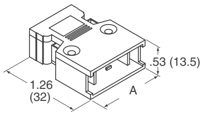

- Material: Aluminum, .050” • Plating: Nickel

Fig. 13 — 60° Metal Junction Shell for Round Cable

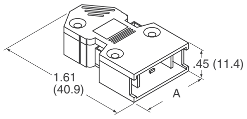

- Material: Aluminum, .050” • Plating: Nickel

Fig. 14 — MDR Cable Assembly Plug

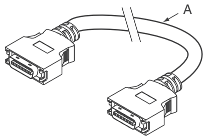

Dimension A = Length
(from Strain Relief to Strain Relief)

Fig. 15 — Rugged Thumb-screw Retention and EMI Shielded Junction Shell

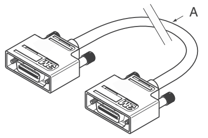

Dimension A = Length
(from Strain Relief to Strain Relief)

Fig. 16 — Rugged Thumbscrew Retention and EMI Shielded Junction Shell

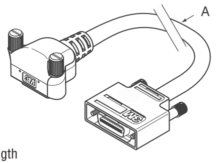

Dimension A = Length
(from Strain Relief to Strain Relief)

Fig. 17 — I/O Mounting Hardware

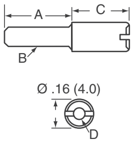

3M #	A	B	C	D
3341-10	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-16	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-17	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-13	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-25	.41(10.5)	M2.5	.12(3.0)	.120 DP
3341-31	.40(10.2)	M2.5	.15(3.8)	.100 DP
3341-32	.50(12.5)	M2.5	.30(7.6)	.203 DP

- Material: Stainless Steel • Plating: Passivated

Fig. 18 — Board Lock and Panel Mounting Screws

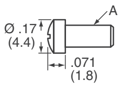

3M #	A
3344-26	M2.6 x 8mm
3344-3	M2.5 x 6mm
3344-38	M2.5 x 8mm
3344-4	#4-40 x 1/4
3344-44	#4-40 x 3/8

- Material: Steel • Plating: Zinc

Fig.	Color	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	250	3M Part No.
Plugs — Shielded, .050”									
1	Black	14	.72 (18.2)	MPB14A-ND	4.87	4.10	3.70	3.51	10114-6000EC
	Black	20	.87 (22.0)	MPB20A-ND	5.03	4.24	3.83	3.63	10120-6000EC
	Black	26	1.02 (25.8)	MPB26A-ND	5.20	4.38	3.95	3.75	10126-6000EC
	Black	36	1.27 (32.2)	MPB36A-ND	6.24	5.25	4.74	4.50	10136-6000EC
	Black	40	1.37 (34.7)	MPB40A-ND	6.45	5.43	4.90	4.65	10140-6000EC
	Black	50	1.62 (41.1)	MPB50A-ND	6.88	5.80	5.23	4.97	10150-6000EC
	Black	68	2.07 (52.5)	MPB68A-ND	7.07	5.95	5.38	5.10	10168-6000EC
	Black	80	2.37 (60.1)	MPB80A-ND	8.59	7.23	6.53	6.20	10180-6000EC
	Black	100	2.87 (72.8)	MPB100A-ND	10.21	8.60	7.76	7.37	101A0-6000EC
	Gray	68	2.07 (52.5)	MPA68A-ND	6.49	5.46	4.93	4.68	10168-6010EC
2	Black	14	.72 (18.2)	3M1767-ND	6.41	5.39	4.87	4.62	10114-3000PE
	Black	20	.87 (22.0)	3M1768-ND	6.97	5.87	5.30	5.03	10120-3000PE
	Black	26	1.02 (25.8)	3M1769-ND	7.78	6.55	5.91	5.61	10126-3000PE
	Black	36	1.27 (32.2)	3M1770-ND	8.26	6.95	6.28	5.96	10136-3000PE
	Black	40	1.37 (34.7)	3M1771-ND	8.65	7.28	6.58	6.24	10140-3000PE
	Black	50	1.62 (41.1)	3M1772-ND	9.34	7.86	7.10	6.74	10150-3000PE
3	Black	20	1.31 (33.3)	3M1806-ND	13.64	11.48	10.37	9.84	10120-52B2PC
	Black	26	1.46 (37.2)	3M1807-ND	14.14	11.90	10.75	10.20	10126-52B2PC
	Black	36	1.71 (43.5)	3M1808-ND	14.66	12.34	11.14	10.58	10136-52B2PC
	Black	50	2.06 (52.4)	3M1809-ND	15.31	12.88	11.63	11.04	10150-52B2PC
Receptacles — Shielded, .050”									
4	Black	20	1.31 (33.4)	MRB20A-ND	8.88	7.48	6.75	6.41	10220-0210EC
	Black	26	1.46 (37.2)	MRB26A-ND	9.61	8.09	7.30	6.93	10226-0210EC
	Black	36	1.71 (43.5)	MRB36A-ND	10.77	9.07	8.19	7.77	10236-0210EC
	Black	40	1.81 (46.1)	MRB40A-ND	11.32	9.52	8.60	8.16	10240-0210EC
	Black	50	2.06 (52.4)	MRB50A-ND	12.52	10.54	9.52	9.03	10250-0210EC
	Black	68	2.51 (63.8)	MRB68A-ND	14.62	12.31	11.11	10.55	10268-0210EC
5	Beige	14	1.16 (29.6)	3M1811-ND	4.20	3.54	3.20	3.03	10214-55G3PC
	Beige	20	1.31 (33.4)	3M1814-ND	3.72	3.14	2.83	2.69	10220-55G3PC
	Beige	20	1.31 (33.4)	3M1815-ND	4.37	3.68	3.32	3.15	10220-55H3PC
	Beige	26	1.46 (37.2)	3M1818-ND	4.04	3.40	3.07	2.91	10226-55G3PC
	Beige	36	1.71 (43.5)	3M1820-ND	4.43	3.73	3.37	3.20	10236-55G3PC
	Beige	36	1.71 (43.5)	3M1821-ND	4.43	3.73	3.37	3.20	10236-55H3PC
	Beige	40	1.81 (46.1)	3M1824-ND	5.49	4.62	4.18	3.96	10240-55G3PC
	Beige	50	2.06 (52.4)	3M1766-ND	5.20	4.38	3.95	3.75	10250-55H3PC
	Beige	68	2.51 (63.8)	3M1828-ND	6.76	5.69	5.14	4.88	10268-55H3PC
	Black	68	2.51 (63.8)	3M1832-ND	10.82	9.10	8.22	7.80	10268-5JBEPC
6	Black	14	1.16 (29.5)	3M1812-ND	4.53	3.82	3.45	3.27	10214-6212PC
	Black	20	1.31 (33.4)	3M1816-ND	4.76	4.01	3.62	3.44	10220-6212PC
	Black	26	1.46 (37.2)	3M1819-ND	4.93	4.15	3.75	3.56	10226-6212PC
	Black	36	1.71 (43.5)	3M1822-ND	5.08	4.27	3.86	3.66	10236-6212PC
6	Black	40	1.81 (46.1)	3M1825-ND	5.30	4.47	4.03	3.83	10240-6212PC
	Black	50	2.06 (52.4)	3M1827-ND	5.62	4.73	4.27	4.05	10250-6212PC
	Black	68	2.51 (63.8)	3M1829-ND	6.57	5.53	5.00	4.74	10268-6212PC
	Black	80	2.81 (71.5)	3M1830-ND	8.86	7.46	6.74	6.39	10280-6212PC
	Black	100	3.31 (84.2)	3M1831-ND	9.48	7.98	7.21	6.84	102A0-6212PC
7	Beige	14	1.16 (29.5)	3M1810-ND	7.57	6.37	5.76	5.46	10214-1210PE
	Beige	20	1.32 (33.4)	3M1813-ND	7.74	6.51	5.88	5.58	10220-1210PE
	Beige	26	1.50 (38.2)	3M1817-ND	8.05	6.78	6.12	5.81	10226-1210PE
	Beige	40	1.85 (47.1)	3M1823-ND	9.30	7.83	7.07	6.71	10240-1210PE
	Beige	50	2.06 (52.4)	3M1826-ND	9.73	8.19	7.40	7.02	10250-1210PE
8	Beige	14	1.16 (29.5)	3M6469-ND	8.09	6.81	6.15	5.84	10214-1S10PE
	Beige	20	1.31 (33.3)	3M6470-ND	8.26	6.95	6.28	5.96	10220-1S10PE
	Beige	26	1.46 (37.2)	3M6471-ND	8.59	7.23	6.53	6.20	10226-1S10PE
	Beige	40	1.81 (46.1)	3M6472-ND	9.92	8.35	7.54	7.16	10240-1S10PE
	Beige	50	2.06 (52.4)	3M6473-ND	10.40	8.75	7.90	7.50	10250-1S10PE
9	Black	14	1.16 (29.5)	3M1734-ND	8.69	7.32	6.61	6.27	10214-R21TS
	Black	36	1.71 (43.5)	3M1735-ND	9.19	7.74	6.99	6.63	10236-R21TS
	Black	40	1.81 (46.1)	3M1736-ND	9.36	7.88	7.11	6.75	10240-R21TS
	Black	68	2.51 (63.8)	3M1737-ND	10.90	9.17	8.28	7.86	10268-R21TS
	Black	80	2.81 (71.5)	3M1738-ND	14.85	12.50	11.29	10.71	10280-R21TS
Connector Junction Shells — .050”									
10	Beige	14	1.02 (25.9)	3M1739-ND	4.68	3.94	3.56	3.38	10314-3210-000
	Beige	20	1.17 (29.7)	3M1740-ND	4.06	3.42	3.09	2.93	10320-3210-000
	Beige	26	1.32 (33.5)	3M1741-ND	4.14	3.49	3.15	2.99	10326-3210-000
	Beige	36	1.57 (39.8)	3M1742-ND	4.22	3.56	3.21	3.05	10336-3210-000
	Beige	40	1.67 (42.4)	3M1765-ND	4.78	4.03	3.64	3.45	10340-3210-000
	Beige	50	1.92 (48.7)	3M1743-ND	4.35	3.66	3.31	3.14	10350-3210-000
	Beige	68	2.37 (60.1)	3M1744-ND	4.45	3.75	3.39	3.21	10368-3210-000
11	Black	14	1.16 (29.5)	3M1745-ND	6.99	5.88	5.31	5.04	10314-52F0-008
	Black	20	1.31 (33.3)	3M1746-ND	7.20	6.06	5.47	5.19	10320-52F0-008
	Black	26	1.46 (37.2)	3M1747-ND	7.40	6.23	5.63	5.34	10326-52F0-008
	Black	36	1.71 (43.5)	3M1748-ND	7.49	6.30	5.69	5.40	10336-52F0-008
	Black	50	2.06 (52.4)	3M1749-ND	7.70	6.48	5.85	5.55	10350-52F0-008
12	—	14	1.01 (25.8)	3M1750-ND	11.40	9.59	8.66	8.22	10314-A200-00
	—	20	1.17 (29.7)	3M1751-ND	10.15	8.54	7.72	7.32	10320-A200-00
	—	26	1.32 (33.5)	3M1752-ND	10.92	9.19	8.30	7.88	10326-A200-00
	—	36	1.57 (39.8)	3M1753-ND	11.54	9.72	8.77	8.33	10336-A200-00
	—	40	1.67 (42.4)	3M1754-ND	12.38	10.42	9.41	8.93	10340-A200-00
	—	50	1.92 (48.7)	3M1755-ND	12.90	10.85	9.80	9.30	10350-A200-00

‡ Over-molded 4-40 thumbscrew Δ Discrete 4-40 thumbscrew shell kit *(Continued)*

3M

Mini D Ribbon (MDR) Connectors *(Cont.)*

Fig.	Color	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	250	3M Part No.
12	—	68	2.37 (60.1)	3M1756-ND	13.52	11.38	10.27	9.75	10368-A200-00
	—	100	3.16 (80.2)	3M1757-ND	15.08	12.69	11.46	10.88	103A0-A200-00
13	—	14	1.02 (25.8)	3M1758-ND	9.94	8.37	7.56	7.17	10314-A500-00
	—	26	1.32 (33.5)	3M1759-ND	11.59	9.75	8.81	8.36	10326-A500-00
	—	36	1.57 (39.8)	3M1760-ND	11.79	9.93	8.96	8.51	10336-A500-00
	—	40	1.67 (42.4)	3M1761-ND	14.04	11.82	10.67	10.13	10340-A500-00
	—	50	1.92 (48.7)	3M1762-ND	13.10	11.03	9.96	9.45	10350-A500-00
	—	68	2.37 (60.1)	3M1763-ND	14.00	11.78	10.64	10.10	10368-A500-00
MDR Cable Assemblies									
14	Beige	26	.5 meters	MCA106-.5-ND	54.03	47.28	44.92	42.22	14526-EZ5B-050-02C
	Beige	26	1 meter	MCA107-1-ND	60.22	52.70	50.07	47.05	14526-EZ5B-100-02C
	Beige	26	2 meters	MCA108-2-ND	72.61	63.54	60.36	56.73	14526-EZ5B-200-02C
	Beige	26	3 meters	MCA109-3-ND	84.99	74.37	70.65	66.40	14526-EZ5B-300-02C
	Beige	36	1 meter	MCA116-1-ND‡	71.41	62.49	59.36	55.79	14T36-SZ6B-100-0HC
	Beige	36	2 meters	MCA117-2-ND‡	81.63	71.43	67.86	63.78	14T36-SZ6B-200-0HC
	Beige	36	5 meters	MCA118-5-ND‡	116.99	102.37	97.25	91.40	14T36-SZ6B-500-0HC
	Beige	50	1 meter	MCA110-1-ND‡	103.71	90.75	86.22	81.03	14T50-SZWB-100-0NC
	Beige	50	2 meters	MCA111-2-ND‡	120.74	105.65	100.37	94.33	14T50-SZWB-200-0NC
	Beige	50	5 meters	MCA112-5-ND‡	177.62	155.42	147.65	138.77	14T50-SZWB-500-0NC
	Beige	50	1 meter	MCA113-1-NDΔ	106.10	92.84	88.20	82.89	14B50-SZWB-100-0NC
	Beige	50	2 meters	MCA114-2-NDΔ	124.43	108.88	103.44	97.22	14B50-SZWB-200-0NC
	Beige	50	5 meters	MCA115-5-NDΔ	180.59	158.02	150.12	141.09	14B50-SZWB-500-0NC
Digital Camera Cable									
15	Gray	26	2 meters	MCA124-2-ND	53.15	46.51	44.19	41.53	14B26-SZ3B-200-03C
	Gray	26	5 meters	MCA123-5-ND	73.30	64.14	60.93	57.27	14B26-SZ3B-500-03C
	Gray	26	10 meters	MCA122-10-ND	106.88	93.52	88.85	83.50	14B26-SZ3B-A00-03C
High-Flex Digital Camera Cable									
15	Black	26	2 meters	MCA131-2-ND	79.71	69.75	66.27	62.28	14B26-SZ3B-200-04C
	Black	26	5 meters	MCA130-5-ND	109.94	96.20	91.39	85.89	14B26-SZ3B-500-04C
	Black	26	10 meters	MCA129-10-ND	160.32	140.28	133.27	125.25	14B26-SZ3B-A00-04C
High Speed Digital CameraLink™ Cable, Right Angle									
16	Beige/	26	2 meters	MCA126-2-ND	116.91	102.30	97.19	91.34	14H26-SZLM-200-0LC
	Black	26	5 meters	MCA125-5-ND	161.25	141.10	134.04	125.98	14H26-SZLM-500-0LC
Right Angle Digital Camera Cable									
16	Gray/	26	2 meters	MCA128-2-ND	99.38	86.96	82.61	77.64	14H26-SZ3M-200-03C
	Black	26	5 meters	MCA127-5-ND	137.06	119.93	113.93	107.08	14H26-SZ3M-500-03C
Right Angle, High-Flex Digital Camera Cable									
16	Black	26	2 meters	MCA133-2-ND	122.77	107.43	102.06	95.92	14H26-SZ3M-200-04C
	Black	26	5 meters	MCA132-5-ND	169.31	148.15	140.75	132.28	14H26-SZ3M-500-04C
Tooling									
Crimp Tool Kit for IDC Plug				3M3829-ND	1897.50	—	—	—	3829

‡ Over-molded 4-40 thumbscrew Δ Discrete 4-40 thumbscrew shell kit

Fig.	Description	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
Jack Sockets, .050”							
17	M2.5/M2.5	MDVS10-ND	2.16	164.32	743.60	1352.00	3341-10BULK
	#4-40/#4-40	MDVS16-ND	2.35	178.54	807.95	1469.00	3341-16BULK
	#4-40/#4-40	MDVS17-ND	1.77	134.30	607.75	1105.00	3341-17KIT
	M2.5/#4-40	MDVS13-ND	2.39	181.70	822.25	1495.00	3341-13BULK
	M2.5/M2	MDVS25-ND	3.00	227.52	1029.60	1872.00	3341-25
	M2.5/#4-40	MDVS31-ND	1.73	131.14	593.45	1079.00	3341-31BULK
	M2.5/#4-40	MDVS32-ND	2.00	151.68	686.40	1248.00	3341-32BULK

Fig.	Description	Digi-Key Part No.	Pricing 10	100	500	1,000	3M Part No.
Screws (Steel with Zinc Plating), .050”							
18	Board Lock Screw, M2.6 x 8mm	MDVT26-ND*	3.60	25.20	105.00	192.00	3344-26
	Board Lock Screw, M2.5 x 6.0mm	MDVT03-ND*	11.40	79.80	332.50	608.00	3344-3
	Panel Mount Screw, M2.5 x 8.0mm	MDVT38-ND*	3.60	25.20	105.00	192.00	3344-38
	Board Lock Screw, #4-40 x 1/4”	MDVT04-ND*	11.10	77.70	323.75	592.00	3344-4
	Panel Mount Screw, #4-40 x 3/8”	MDVT44-ND*	12.60	88.20	367.50	672.00	3344-44

* Quantity of 10 equals 10 pairs

SDR Connectors and Cable Assemblies

Fig. 1

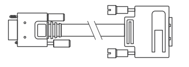

Fig. 2

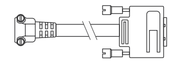

Fig. 3

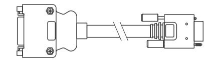

Fig. 4

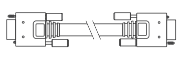

Fig. 5

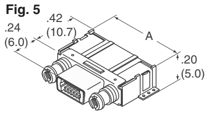

Fig. 6

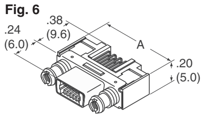

Fig. 7

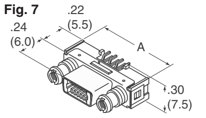

Fig.	Description	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
1	MDR Recept. - SDR Plug	26	—	MCA100-5-ND	219.95	192.46	171.84	1MF26-L560-00C-500
2	R/A SDR Plug - MDR Plug	26	—	MCA101-2-ND	192.00	168.00	150.00	1MF26-L576-00C-200
	R/A MDR Plug - SDR Plug	26	—	MCA102-5-ND	249.36	218.19	194.82	1MF26-L586-00C-500
3	MDR Recept. - SDR Plug	26	—	MCA103-2-ND	197.60	172.90	154.38	1MG26-LFW0-00C-200
4	SDR Plug - SDR Plug	26	—	MCA104-5-ND	324.37	283.83	253.42	1SF26-L120-00C-500
	R/A SDR Plug - SDR Plug	26	—	MCA105-2-ND	297.25	260.10	232.23	1SF26-L136-00C-200
5	Header – SMT, R/A	14	.79 (20)	MSDS14-ND	9.51	8.00	7.23	12214-8250-00FR
	Header – SMT, R/A	26	.98 (24.8)	MSDS26-ND	10.50	8.84	7.98	12226-8250-00FR
6	Header – Thru-Hole, R/A	14	.79 (20)	MSDR14-ND	7.92	6.67	6.02	12214-5150-00FR
	Header – Thru-Hole, R/A	26	.98 (24.8)	MSDR26-ND	8.92	7.51	6.78	12226-5150-00FR
	Header – Thru-Hole, R/A	50	1.35 (34.4)	MSDR50-ND	11.88	9.99	9.03	12250-5150-00FR
7	Header – Thru-Hole, Vert.	14	.79 (20)	MSDV14-ND	7.53	6.34	5.72	12214-1150-00FR
	Header – Thru-Hole, Vert.	26	.98 (24.8)	MSDV26-ND	8.53	7.18	6.48	12226-1150-00FR

SATA Connectors

Fig. 1

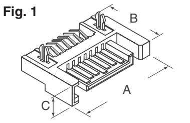

Right Angle Shown

Fig. 2

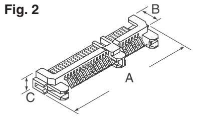

Straddlemount Shown

Fig. 3

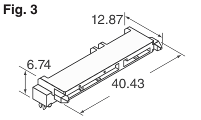

Fig. 4

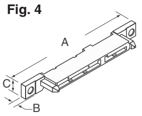

Fig. 5

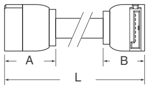

Straight to Right Angle Shown

Fig. 6

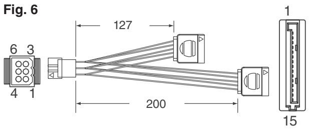

Fig.	Description	Dimensions — mm A	B	C	No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
SATA Plugs										
1	R/A, SMT Gold Flash	17.46	11.50	4.00	7	3M5561-ND	.60	.45	.32	5607-4200-SH
	Vertical, PCB Gold Flash	16.78	8.40	5.70	7	3M5562-ND	.57	.43	.31	5607-5102-SH
2	Straddlemount 30µ”	45.77	7.25	5.73	22	3M5555-ND	2.19	1.65	1.17	5622-6309-ML
	R/A, Thru-Hole 30µ”	42.76	5.60	11.00	22	3M5556-ND	2.40	1.80	1.28	5622-4100-ML
SATA Receptacles										
3	R/A, SMT 30µ”	—	—	—	22	3M5560-ND	2.58	1.94	1.38	5622-1200-ML
4	Vertical, SMT 30µ”	54.50	5.50	2.45	22	3M5557-ND§	2.49	1.87	1.33	5622-2222-ML
	Vertical, PCB 30µ”	42.73	5.00	14.15	22	3M5558-ND	2.49	1.87	1.33	5622-2103-ML
	Vertical, Pressfit, 30µ”	42.73	10.00	14.15	22	3M5559-ND	2.58	1.94	1.38	5622-2603-ML
SATA Signal Cables										
5	R/A to R/A, L= 0.5M	12.5	12.5	—	7	3M5565-ND	2.82	2.12	1.51	5602-11-0000-500
	STR to R/A, L= 0.5M	15.5	12.5	—	7	3M5567-ND	2.82	2.12	1.51	5602-21-0000-500
	STR to STR, L= 1M	15.5	15.5	—	7	3M5568-ND	3.15	2.37	1.68	5602-22-0000-000
	STR to STR, L= 0.5M	15.5	15.5	—	7	3M5743-ND	2.82	2.12	1.51	5602-22-0000-500
Power Cable										
6	“Y” Configuration	—	—	—	15	3M5563-ND	4.68	3.51	2.50	5601-22-127-200

§ With mounting flange

Shielded Compact Ribbon (SCR) Connectors

Features: • Robust ribbon style contact for reliable, repetitive plugging • 360° shielding for excellent EMI protection • 10 contacts can carry signal or power (up to 1A per pin) • Polarized to provide proper cable insertion • Vibration resistant **Specifications:** • Insulation Material: Glass-filled LCP or Glass-filled Nylon • Flammability: UL 94V-0 • Color: Black • Contact Material: Phosphor Bronze or Copper Alloy • Shroud Material: Steel • Current Rating: 1A • Voltage Rating: 150VAC/200VDC • Temperature Rating: -55°C ~ 85°C

Dimensions in mm

Fig. 1

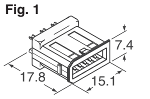

Fig. 2

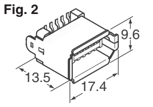

Fig. 3

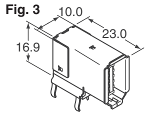

Fig. 4

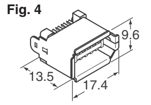

Fig.	Description	Digi Key Part No.	Price Each 1	10	100	3M Part No.
1	Receptacle, Wiremount	3M6453-ND	3.64	3.07	2.77	36210-0100FD
	Receptacle, Wiremount	3M6459-ND	3.74	3.15	2.85	36210-0100PL
2	Plug, SMT	3M6456-ND	6.78	5.71	5.16	36110-1110PL
3	Plug, Right Angle, Thru-Hole	3M6457-ND	5.84	4.92	4.44	36110-2220PE
4	Plug, Solder	3M6458-ND	5.49	4.62	4.18	36110-3000FD
Accessories						
—	Backshell for Receptacle	3M6454-ND	7.38	6.22	5.61	36310-3200-008
	Backshell for Plug	3M6455-ND	8.22	6.92	6.25	36310-F200-008

I/O Interconnect System 2.0mm for IEEE 1394

Features: • Robust ribbon style contact for reliable, repetitive plugging • Six contacts can carry signal or power (up to 1A per pin) • Polarized to provide proper cable insertion • Vibration resistant **Specifications:** • Insulation Material: Glass Reinforced Polyester (PBT) • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: Nickel; Wiping Area: 20µ” minimum Gold • Wire Accomodation: 18AWG maximum • Current Rating: 1A • Voltage Rating: 150VAC/200VDC • Insulation Resistance: >5x10^{8} Ω at 500VDC • Withstanding Voltage: 500V$_{RMS}$ for 1 minute • Temperature Rating: -55°C ~ 85°C

Dimensions in mm

Fig. 1

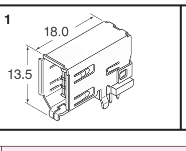

Fig. 2

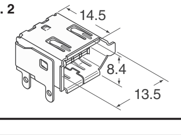

Fig. 3

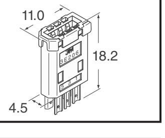

Fig.	Description	Digi Key Part No.	Price Each 1	25	50	3M Part No.
1	Plug, R/A, Upright, Thru-Hole, Straight Tabs	3M9422-ND	2.88	2.69	2.50	3E106-2220KV
	Plug, R/A, Upright, Thru-Hole, Kinked Tabs	3M9423-ND	2.95	2.76	2.56	3E106-2230KV
2	Plug, Right Angle, Thru-Hole, Horizontal	3M9424-ND	2.88	2.69	2.50	3E106-0220KV
3	Receptacle, Wiremount	3M9420-ND	5.54	5.17	4.80	3E206-0100KV
Accessories						
—	Shell Kit for Receptacle	3M9421-ND	10.17	9.50	8.82	3E306-3200-008

molex Picoflex™ PF-50

PHYSICAL: • Pitch/Center Spacing: .050 Inch (1.27mm) • Cable Pitch: .050 Inch (1.27mm) • Wire Size (AWG): 26, 28 • Wire Type: Ribbon Cable • Termination Method: Insulation Displacement (IDT) • Housing Material: Receptacle: Polyester; Header: Nylon Glass-Filled • Flammability Rating: UL 94V-0 • Contact: Receptacle: Phosphor Bronze (CuSn); Header: Brass • Minimum Durability (mating cycles): 30 cycles-Tin (Sn), 100 cycles-Gold (Au) • UL File: E29179

ELECTRICAL: • Maximum Current: 2.4A • Maximum Voltage Rating: 250V

ENVIRONMENTAL: • Temperature Range: -40°C ~ 105°C

Fig. 1

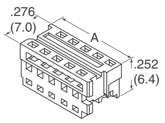

Fig. 2

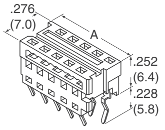

Fig. 3

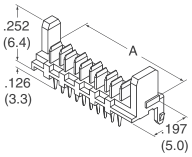

Fig. 4

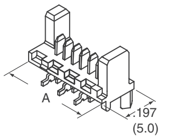

Fig.	Contact Finish	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
				Receptacles				
1	Tin	4	0.299 (7.59)	WM19220-ND	.58	.54	.43	90327-0304
	Tin	6	0.399 (10.13)	WM19221-ND	.82	.75	.60	90327-0306
	Tin	8	0.499 (12.67)	WM19222-ND	.97	.90	.72	90327-0308
	Tin	10	0.599 (15.21)	WM19223-ND	1.17	1.07	.86	90327-0310
	Tin	12	0.699 (17.75)	WM19224-ND	1.31	1.21	.97	90327-0312
	Tin	14	0.799 (20.29)	WM19225-ND	1.43	1.31	1.05	90327-0314
	Tin	16	0.899 (22.83)	WM19226-ND	1.56	1.43	1.15	90327-0316
	Tin	18	0.999 (25.37)	WM19227-ND	1.66	1.53	1.22	90327-0318
	Tin	20	1.099 (27.91)	WM19228-ND	1.85	1.70	1.36	90327-0320
	Tin	26	1.399 (35.53)	WM19229-ND	2.28	2.09	1.67	90327-0326
	Gold	4	0.299 (7.59)	WM19230-ND	.76	.70	.56	90327-3304
	Gold	6	0.399 (10.13)	WM19231-ND	1.06	.98	.78	90327-3306
	Gold	8	0.499 (12.67)	WM19232-ND	1.26	1.16	.93	90327-3308
	Gold	10	0.599 (15.21)	WM19233-ND	1.52	1.39	1.12	90327-3310
	Gold	12	0.699 (17.75)	WM19234-ND	1.71	1.57	1.26	90327-3312
	Gold	14	0.799 (20.29)	WM19235-ND	1.86	1.71	1.37	90327-3314
	Gold	16	0.899 (22.83)	WM19236-ND	2.02	1.86	1.49	90327-3316
	Gold	18	0.999 (25.37)	WM19237-ND	2.16	1.99	1.59	90327-3318
	Gold	20	1.099 (27.91)	WM19238-ND	2.40	2.21	1.77	90327-3320
	Gold	26	1.399 (35.53)	WM19239-ND	2.96	2.72	2.17	90327-3326
2	Tin	4	0.299 (7.59)	WM19240-ND	.58	.54	.43	90584-1304
	Tin	6	0.399 (10.13)	WM19241-ND	.82	.75	.60	90584-1306
	Tin	8	0.499 (12.67)	WM19242-ND	.97	.90	.72	90584-1308
	Tin	10	0.599 (15.21)	WM19243-ND	1.17	1.07	.86	90584-1310
	Tin	12	0.699 (17.75)	WM19244-ND	1.31	1.21	.97	90584-1312
	Tin	14	0.799 (20.29)	WM19245-ND	1.43	1.31	1.05	90584-1314
	Tin	16	0.899 (22.83)	WM19246-ND	1.56	1.43	1.15	90584-1316
	Tin	18	0.999 (25.37)	WM19247-ND	1.66	1.53	1.22	90584-1318
	Tin	20	1.099 (27.91)	WM19248-ND	1.85	1.70	1.36	90584-1320
	Tin	26	1.399 (35.53)	WM19249-ND	2.28	2.09	1.67	90584-1326
				Headers — Through Hole				
3	Tin	4	0.367 (9.32)	WM19210-ND	.65	.60	.48	90325-9004
	Tin	6	0.467 (11.86)	WM19211-ND	.70	.65	.52	90325-9006
	Tin	8	0.567 (14.40)	WM19212-ND	.83	.76	.61	90325-9008
	Tin	10	0.667 (16.94)	WM19213-ND	.95	.87	.70	90325-9010
	Tin	12	0.767 (19.48)	WM19214-ND	1.05	.97	.78	90325-9012
	Tin	14	0.867 (22.02)	WM19215-ND	1.13	1.04	.83	90325-9014
	Tin	16	0.967 (24.56)	WM19216-ND	1.44	1.33	1.06	90325-9016
	Tin	18	1.067 (27.10)	WM19217-ND	2.27	2.09	1.67	90325-9018
	Tin	20	1.167 (29.64)	WM19218-ND	1.75	1.60	1.28	90325-9020
	Tin	26	1.467 (37.26)	WM19219-ND	2.50	2.30	1.84	90325-9026
	Gold	4	0.367 (9.32)	WM19200-ND	1.12	1.04	.83	90325-7004
	Gold	6	0.467 (11.86)	WM19201-ND	1.54	1.42	1.14	90325-7006
	Gold	8	0.567 (14.40)	WM19202-ND	1.92	1.76	1.41	90325-7008
	Gold	10	0.667 (16.94)	WM19203-ND	2.38	2.19	1.75	90325-7010
	Gold	12	0.767 (19.48)	WM19204-ND	2.87	2.63	2.11	90325-7012
	Gold	14	0.867 (22.02)	WM19205-ND	3.20	2.93	2.35	90325-7014
	Gold	16	0.967 (24.56)	WM19206-ND	3.57	3.28	2.62	90325-7016
	Gold	18	1.067 (27.10)	WM19207-ND	4.01	3.68	2.95	90325-7018
	Gold	20	1.167 (29.64)	WM19208-ND	3.30	3.03	2.42	90325-7020
	Gold	26	1.467 (37.26)	WM19209-ND	5.34	4.90	3.92	90325-7026
				Headers — SMD				
4	Tin	4	0.349 (8.86)	WM19274-ND	.76	.70	.56	90814-0804
	Tin	6	0.449 (11.40)	WM19275-ND	.86	.79	.64	90814-0806
	Tin	8	0.549 (13.94)	WM19276-ND	.93	.86	.69	90814-0808
	Tin	10	0.649 (16.48)	WM19277-ND	.96	.88	.71	90814-0810
	Tin	12	0.749 (19.02)	WM19278-ND	1.02	.94	.76	90814-0812
	Tin	14	0.849 (21.56)	WM19279-ND	1.18	1.08	.87	90814-0814
	Tin	16	0.949 (24.10)	WM19280-ND	1.32	1.21	.97	90814-0816
	Tin	18	1.049 (26.64)	WM19281-ND	1.46	1.34	1.08	90814-0818
	Tin	20	1.149 (29.18)	WM19282-ND	1.62	1.49	1.20	90814-0820
	Tin	26	1.449 (36.80)	WM19283-ND	1.78	1.64	1.31	90814-0826
	Gold	4	0.349 (8.86)	WM19284-ND	1.06	.98	.78	90814-3804
	Gold	6	0.449 (11.40)	WM19285-ND	1.05	.97	.77	90814-3806
4	Gold	8	0.549 (13.94)	WM19286-ND	1.42	1.31	1.05	90814-3808
	Gold	10	0.649 (16.48)	WM19287-ND	1.60	1.47	1.17	90814-3810
	Gold	12	0.749 (19.02)	WM19288-ND	1.92	1.76	1.41	90814-3812
	Gold	14	0.849 (21.56)	WM19289-ND	2.17	1.99	1.60	90814-3814
	Gold	16	0.949 (24.10)	WM19290-ND	2.03	1.87	1.49	90814-3816
	Gold	18	1.049 (26.64)	WM19291-ND	2.27	2.09	1.67	90814-3818
	Gold	20	1.149 (29.18)	WM19292-ND	2.52	2.32	1.85	90814-3820
	Gold	26	1.449 (36.80)	WM19293-ND	3.22	2.96	2.37	90814-3826
				Tools and Accessories				
Hand Tool for Picoflex				WM19270-ND	648.00	—	—	69008-1090
Extraction Tool for Picoflex				WM9991-ND	10.15	—	—	69008-1070
Main Spring for Parallel Action Hand Tool				WM5157-ND ***NEW!***	5.22	4.32	3.24	0690080970

Kits

WM8449-ND (76650-0121) **Picoflex Connector Kit**;
(IDT Board-In Right Angle Receptacle Header Kit) **$14.53**

WM8450-ND (76650-0122) **Picoflex Connector Kit**;
(Right Angle Header and IDT Receptacle Kit) **$12.24**

WM8451-ND (76650-0123) **Picoflex Connector Kit**;
(SMT Vertical Header and IDT Receptacle Kit) **$13.18**

WM8452-ND (76650-0124) **Picoflex Deluxe Connector Kit**; (SMT Vertical and
Right Angle Header, Receptacle and IDT Board-In Receptacle Header Kit) **$27.62**

ASSMANN Flat Cable

Features:
• Operating Voltage: 300Vrms • Test Voltage: 2000Vrms • Current Capacity: 1A • Insulation Resistance: >20GΩ/m • Capacity: 45pF/m • Conductor Resistance: >230Ω/km • Impedance: 104Ω • Temperature Range: -30°C ~ 105°C • Color: Gray, red coded • Multi-Color Sequence: Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black

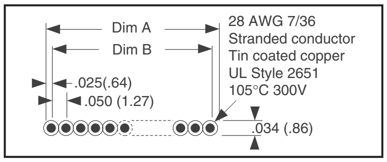

Contacts	Dimensions - Inch (mm) A	B
9	0.45 (11.43)	.400 (10.16)
10	0.50 (12.70)	.450 (11.43)
14	0.70 (17.78)	.650 (16.51)
15	0.75 (19.05)	.700 (17.78)
16	0.80 (20.32)	.750 (19.05)
20	1.00 (25.40)	.950 (24.13)
24	1.20 (30.48)	1.150 (29.21)
25	1.25 (31.75)	1.200 (30.48)

Contacts	Dimensions - Inch (mm) A	B
26	1.30 (33.02)	1.250 (31.75)
30	1.50 (38.10)	1.450 (36.83)
34	1.70 (43.18)	1.650 (41.91)
37	1.85 (46.99)	1.800 (45.72)
40	2.00 (50.80)	1.950 (49.53)
50	2.50 (63.50)	2.450 (62.23)
60	3.00 (76.20)	2.950 (74.93)
64	3.20 (81.28)	3.150 (80.01)

Multi-Color Ribbon Cable◊

With Standard 10 Color Repeat Sequence

No. of Contacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09M-X-ND	2.68	5.35	9.89	17.46	32.59
10	AE10M-X-ND	3.09	6.18	11.42	20.15	37.61
14	AE14M-X-ND	4.57	7.95	16.90	29.83	55.68
15	AE15M-X-ND	4.57	7.95	16.90	29.83	55.68
16	AE16M-X-ND	4.93	8.57	18.20	32.12	59.96
20	AE20M-X-ND	6.18	10.74	20.15	37.61	75.21
24	AE24M-X-ND	6.44	10.95	24.16	45.11	90.21
25	AE25M-X-ND	6.72	11.42	25.19	47.02	94.03
26	AE26M-X-ND	6.99	11.88	26.21	48.93	97.86
30	AE30M-X-ND	9.13	15.53	31.96	63.93	127.86
34	AE34M-X-ND	9.13	15.53	31.96	63.93	127.86
37	AE37M-X-ND	10.93	18.58	38.25	76.50	153.01
40	AE40M-X-ND	10.93	18.58	38.25	76.50	153.01
50	AE50M-X-ND	11.46	20.23	47.21	94.41	163.08
60	AE60M-X-ND	13.81	24.37	56.87	113.74	227.48
64	AE64M-X-ND	14.61	25.79	60.17	120.34	240.67

◊ Cable available in 300 foot reel. Please call for pricing.

Gray Ribbon Cable◊

With Single Edge Red Strip For Pin One Orientation

No. of Contacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09G-X-ND	1.17	2.09	4.62	8.04	13.67
10	AE10G-X-ND	1.30	2.33	5.15	8.96	15.23
14	AE14G-X-ND	1.63	2.89	6.28	10.67	18.84
15	AE15G-X-ND	1.74	3.08	6.70	11.39	20.11
16	AE16G-X-ND	1.86	3.29	7.16	12.17	21.48
20	AE20G-X-ND	2.64	4.67	10.15	17.25	30.45
24	AE24G-X-ND	2.48	4.39	9.55	16.23	28.64
25	AE25G-X-ND	2.86	5.72	10.58	18.66	34.84
26	AE26G-X-ND	2.88	5.76	10.64	18.78	35.06
30	AE30G-X-ND	3.52	6.13	13.02	21.33	42.89
34	AE34G-X-ND	3.11	6.22	11.49	20.28	37.86
37	AE37G-X-ND	3.81	6.63	14.10	24.87	46.43
40	AE40G-X-ND	4.35	7.56	16.07	28.37	52.95
50	AE50G-X-ND	4.57	7.96	16.90	29.83	55.69
60	AE60G-X-ND	6.19	10.77	20.19	37.69	75.39
64	AE64G-X-ND	5.81	9.88	21.80	40.70	81.40

◊ Cable available in 300 foot reel. Please call for pricing.

Quickie™ Headers and Connectors

Eject Latch Headers

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 1 Amp • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled, Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze • 40N minimum Latch Retention Force at First Extraction

Vertical

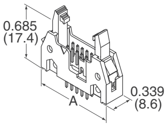

Right Angle

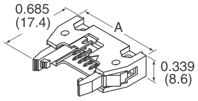

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Vertical Header with Standard Latch					
6	1.060 (26.92)	609-2843-ND	1.47	20.25	71918-106LF
8	1.160 (29.46)	609-3531-ND	1.54	21.29	71918-108LF
10	1.260 (32.00)	609-1753-ND	1.63	22.85	71918-110LF
14	1.460 (37.08)	609-3525-ND	2.02	29.64	71918-114LF
16	1.560 (39.62)	609-1754-ND	1.90	26.36	71918-116LF
20	1.760 (44.70)	609-1755-ND	2.04	29.19	71918-120LF
26	2.060 (52.32)	609-1756-ND	2.29	32.79	71918-126LF
34	2.460 (62.48)	609-1757-ND	2.57	38.55	71918-134LF
40	2.760 (70.10)	609-1758-ND	3.34	51.52	71918-140LF
50	3.260 (82.80)	609-1759-ND	3.37	51.68	71918-150LF
60	3.760 (95.50)	609-3528-ND	3.77	58.10	71918-160LF
64	3.960 (100.58)	609-3529-ND	3.84	59.65	71918-164LF
Right Angle Header with Standard Latch					
6	1.060 (26.92)	609-2844-ND	1.47	20.25	71922-106LF
10	1.260 (32.00)	609-1760-ND	1.63	22.85	71922-110LF
16	1.560 (39.62)	609-1761-ND	2.54	38.11	71922-116LF
20	1.760 (44.70)	609-1762-ND	2.09	29.91	71922-120LF
26	2.060 (52.32)	609-1763-ND	2.29	32.79	71922-126LF
34	2.460 (62.48)	609-1764-ND	2.51	37.62	71922-134LF
40	2.760 (70.10)	609-1765-ND	2.85	42.28	71922-140LF
50	3.260 (82.80)	609-1766-ND	3.37	51.68	71922-150LF
Right Angle Header with Low Profile Latch					
20	1.760 (44.70)	609-3526-ND	2.03	29.91	71922-220LF

Shrouded Headers

Slimline Shrouded

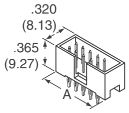

Latching Shrouded

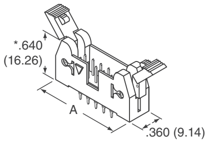

* .625 (15.88) for 65863-085LF

The spring-tension, "Eye-of-Needle" compliant section reduces insertion force during connector installation. The press-fit headers are offered in low-profile, slimline versions or versions equipped with end latches. These dual-row headers utilize 0.64mm (0.025") square pins spaced on 2.54mm (0.100") x 2.54mm (0.100") pitch.

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Slimline Shrouded Headers					
10	0.780 (19.81)	609-3084-ND	3.47	53.89	10073456-001LF
10	0.780 (19.81)	609-3639-ND	1.61	21.73	66506-001LF
14	0.980 (24.9)	609-3640-ND	2.23	32.01	66506-038LF
16	1.080 (27.4)	609-3641-ND	1.65	22.36	66506-043LF
20	1.28 (35.51)	609-3085-ND	4.27	66.72	10073456-019LF
20	1.280 (32.5)	609-3642-ND	2.51	37.66	66506-008LF
24	1.48 (37.59)	609-3086-ND	4.65	72.64	10073456-025LF
30	1.78 (45.21)	609-3087-ND	5.52	87.82	10073456-038LF
40	2.28 (57.91)	609-3088-ND	6.00	99.74	10073456-049LF
Latching Shrouded Headers					
10	1.26 (32.00)	609-3089-ND	4.02	64.65	10080054-007LF
14	1.46 (37.08)	609-3090-ND	4.33	67.63	10080054-043LF
16	1.56 (39.62)	609-3091-ND	4.24	66.31	10080054-061LF
20	1.76 (44.70)	609-3092-ND	6.53	102.10	10080054-079LF
24	1.96 (49.78)	609-3095-ND	4.82	76.68	10080054-524LF
26	2.060 (52.32)	609-3093-ND	5.63	93.72	10080054-115LF
26	2.060 (52.32)	609-3590-ND†	5.36	85.35	53611-S26-4LF
26	2.060 (52.32)	609-3473-ND‡	3.98	61.73	53611-S26-6LF
40	2.830 (71.88)	609-3638-ND§▲	3.39	52.27	65863-085LF
40	2.76 (70.10)	609-3094-ND	6.18	102.81	10080054-169LF

† Tail Length: .120 (3.05) ‡ Tail Length: .150 (3.81) § Tail Length: .105 (2.68) ▲ Solder (not press fit)

Low Profile Headers

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 1 Amps • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled, Thermoplastic: UL94V-0, Color: Blue • Pin Material: Phosphor Bronze • SMT/PIP Compatible with wave, vapor-phase and IR reflow soldering processes • PIP: Pin in Paste

Vertical

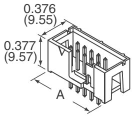

Low Profile Vertical

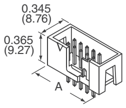

Vertical PiP

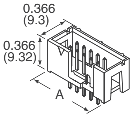

Right Angle

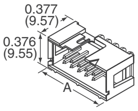

Right Angle PiP

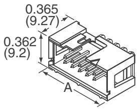

Surface Mount

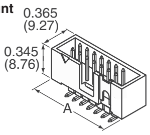

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Vertical Headers					
4	0.484 (12.29)	609-3527-ND	.87	10.62	75869-130LF
6	0.584 (14.83)	609-2845-ND	.94	11.99	75869-131LF
8	0.684 (17.37)	609-3530-ND	.99	12.64	75869-132LF
10	0.784 (19.91)	609-1774-ND	1.80	24.98	75869-101LF
16	1.084 (27.53)	609-1775-ND	1.77	23.94	75869-103LF
20	1.284 (32.61)	609-1776-ND	1.60	22.46	75869-104LF
26	1.584 (40.23)	609-1777-ND	1.94	27.69	75869-105LF
34	1.984 (50.39)	609-1778-ND	2.50	36.89	75869-106LF
40	2.284 (58.01)	609-1779-ND	2.82	42.25	75869-107LF
50	2.784 (70.71)	609-1780-ND	3.44	52.75	75869-108LF
Low Profile Vertical Header					
10	0.79 (20.07)	609-3592-ND†	1.41	18.99	52601-S10-4LF
10	0.79 (20.07)	609-3593-ND†	2.31	34.18	52601-S10-8LF
10	0.79 (20.07)	609-3596-ND	4.39	68.11	52601-G10-8LF
16	1.09 (27.69)	609-3474-ND†	1.75	24.31	52601-S16-4LF
20	1.29 (32.77)	609-3594-ND†	2.05	30.12	52601-S20-4LF
20	1.29 (32.77)	609-3595-ND†	2.76	41.40	52601-S20-8LF
30	1.79 (45.47)	609-3475-ND†	3.12	47.78	52601-S30-4LF
Vertical PiP Headers					
14	0.991 (25.18)	609-3015-ND	1.73	23.41	10056844-114LF
16	1.091 (27.72)	609-3016-ND	2.14	29.79	10056844-116LF
26	1.591 (40.42)	609-3018-ND	2.86	42.96	10056844-126LF
34	1.991 (50.54)	609-3020-ND	3.69	56.60	10056844-134LF
40	2.291 (58.20)	609-3021-ND	3.73	57.11	10056844-140LF
Right Angle Headers					
4	0.483 (12.29)	609-3077-ND	1.08	14.14	75867-130LF
6	0.584 (14.83)	609-2846-ND	1.00	12.76	75867-131LF
8	0.684 (17.37)	609-3078-ND	1.04	13.67	75867-132LF
10	0.784 (19.91)	609-1767-ND	1.23	16.91	75867-101LF
14	0.984 (24.99)	609-3079-ND	1.36	18.30	75867-102LF
16	1.084 (27.53)	609-1768-ND	1.87	26.01	75867-103LF
20	1.284 (32.61)	609-1769-ND	1.66	22.42	75867-104LF
26	1.584 (40.23)	609-1770-ND	2.06	29.49	75867-105LF
34	1.984 (50.39)	609-1771-ND	2.94	43.70	75867-106LF
40	2.284 (58.01)	609-1772-ND	2.73	40.99	75867-107LF
50	2.784 (70.71)	609-1773-ND	3.90	60.54	75867-108LF
Right Angle PiP Headers					
14	0.991 (25.18)	609-3023-ND	2.26	32.27	10056845-114LF
20	1.291 (32.87)	609-3025-ND	2.70	38.73	10056845-120LF
26	1.591 (40.42)	609-3026-ND	3.07	45.99	10056845-126LF
40	2.291 (58.20)	609-3029-ND	4.32	67.02	10056845-140LF
SMT Headers					
10	0.790 (20.07)	609-3075-ND	2.53	37.92	72454-010LF
14	0.99 (25.2)	609-3011-ND	2.51	37.67	72454-014LF
16	1.090 (27.69)	609-3012-ND	2.28	32.72	72454-016LF
20	1.290 (32.77)	609-3076-ND	2.58	38.76	72454-020LF
40	2.290 (58.17)	609-3013-ND‡	6.32	107.46	72454-040LF

‡ Contact Plating: 100µ" (3.05µ) Tin † Contact Plating: 15µ" (0.38µm) Gold

(Continued)

.100" x .100" (2.54 mm x 2.54 mm) Socket Connectors

Use .050" (1.27 mm) Pitch Ribbon Cable

Center Key

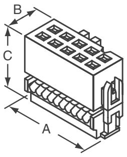

Shown without
strain relief

PC Board Mount

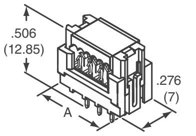

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 1 Amp Continuous • Temperature Range: -65°C ~ 125°C • Plastic Material: Glass Filled High Temperature, Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze

No. of Pos.	Dimensions in Inches (mm)			Digi-Key Part No.	Pricing		FCI Part No.
	A	B	C		1	25	
With Center Key without Strain Relief							
6	0.476 (12.09)	0.240 (6.10)	0.512 (13.00)	609-2842-ND	1.12	15.47	71600-106LF
10	0.672 (17.07)	0.240 (6.10)	0.512 (13.00)	609-1746-ND	1.30	18.33	71600-110LF
10	0.680 (17.27)	0.235 (5.97)	0.540 (13.70)	609-3645-ND	1.75	24.35	66900-310LF
16	0.976 (24.79)	0.240 (6.10)	0.512 (13.00)	609-1747-ND	1.92	26.73	71600-116LF
20	1.172 (29.78)	0.240 (6.10)	0.512 (13.00)	609-1748-ND	1.51	20.89	71600-120LF
26	1.476 (37.49)	0.240 (6.10)	0.512 (13.00)	609-1749-ND	1.62	21.93	71600-126LF
34	1.876 (47.65)	0.240 (6.10)	0.512 (13.00)	609-1750-ND	2.78	41.75	71600-134LF
40	2.176 (55.27)	0.240 (6.10)	0.512 (13.00)	609-1751-ND	2.49	37.31	71600-140LF
50	2.676 (67.97)	0.240 (6.10)	0.512 (13.00)	609-1752-ND	3.24	49.57	71600-150LF
With Center Key with Strain Relief							
6	0.476 (12.09)	0.240 (6.10)	0.512 (13.00)	609-2841-ND	1.09	14.42	71600-006LF
8	0.576 (14.63)	0.240 (6.10)	0.512 (13.00)	609-3568-ND	1.17	16.11	71600-008LF
10	0.672 (17.07)	0.240 (6.10)	0.512 (13.00)	609-1739-ND	1.41	18.98	71600-010LF
10	0.680 (17.27)	0.235 (5.97)	0.540 (13.70)	609-3644-ND	2.31	33.12	66900-210LF
14	0.876 (22.25)	0.240 (6.10)	0.512 (13.00)	609-3562-ND	1.14	15.68	71600-014LF
14	0.880 (22.35)	0.235 (5.97)	0.540 (13.70)	609-3646-ND	3.10	47.47	66900-214LF
16	0.976 (24.79)	0.240 (6.10)	0.512 (13.00)	609-1740-ND	1.76	23.78	71600-016LF
16	0.980 (24.89)	0.235 (5.97)	0.540 (13.70)	609-3647-ND	3.79	58.87	66900-216LF
20	1.172 (29.78)	0.240 (6.10)	0.512 (13.00)	609-1741-ND	1.45	19.47	71600-020LF
20	1.180 (29.97)	0.235 (5.97)	0.540 (13.70)	609-3648-ND	3.14	48.06	66900-220LF
24	1.376 (34.95)	0.240 (6.10)	0.512 (13.00)	609-3564-ND	2.00	28.58	71600-024LF
26	1.476 (37.49)	0.240 (6.10)	0.512 (13.00)	609-1742-ND	2.19	32.27	71600-026LF
26	1.480 (37.59)	0.235 (5.97)	0.540 (13.70)	609-3650-ND	2.99	45.88	66900-226LF
34	1.876 (47.65)	0.240 (6.10)	0.512 (13.00)	609-1743-ND	2.52	37.16	71600-034LF
34	1.880 (47.75)	0.235 (5.97)	0.540 (13.70)	609-3651-ND	3.34	51.51	66900-234LF
40	2.176 (55.27)	0.240 (6.10)	0.512 (13.00)	609-1744-ND	2.06	29.38	71600-040LF
40	2.180 (55.37)	0.235 (5.97)	0.540 (13.70)	609-3652-ND	3.79	58.39	66900-240LF
50	2.676 (67.97)	0.240 (6.10)	0.512 (13.00)	609-1745-ND	2.90	42.98	71600-050LF
50	2.680 (683.07)	0.235 (5.97)	0.540 (13.70)	609-3653-ND	5.08	79.40	66900-250LF
60	3.176 (80.67)	0.240 (6.10)	0.512 (13.00)	609-3565-ND	3.85	59.30	71600-060LF
64	3.376 (85.75)	0.240 (6.10)	0.512 (13.00)	609-3566-ND	2.71	40.67	71600-064LF
With Center Key with Latching Strain Relief							
6	0.476 (12.09)	0.240 (6.10)	0.512 (13.00)	609-3067-ND	1.14	15.73	71600-606LF
10	0.672 (17.07)	0.240 (6.10)	0.512 (13.00)	609-3068-ND	1.13	15.47	71600-610LF
14	0.876 (22.25)	0.240 (6.10)	0.512 (13.00)	609-3563-ND	1.41	19.00	71600-614LF
16	0.976 (24.79)	0.240 (6.10)	0.512 (13.00)	609-3069-ND	1.47	20.36	71600-616LF
20	1.172 (29.78)	0.240 (6.10)	0.512 (13.00)	609-3070-ND	1.69	22.78	71600-620LF
26	1.476 (37.49)	0.240 (6.10)	0.512 (13.00)	609-3071-ND	1.83	25.43	71600-626LF
34	1.876 (47.65)	0.240 (6.10)	0.512 (13.00)	609-3072-ND	2.10	30.81	71600-634LF
40	2.176 (55.27)	0.240 (6.10)	0.512 (13.00)	609-3073-ND	2.30	33.96	71600-640LF
50	2.676 (67.97)	0.240 (6.10)	0.512 (13.00)	609-3074-ND	2.79	41.36	71600-650LF
Without Center Key without Strain Relief							
10	0.680 (17.27)	0.235 (5.97)	0.540 (13.70)	609-3643-ND	1.84	25.50	66900-110LF
Without Center Key with Strain Relief							
6	0.476 (12.09)	0.240 (6.10)	0.512 (13.00)	609-3567-ND	2.04	29.18	71600-306LF
8	0.576 (14.63)	0.240 (6.10)	0.512 (13.00)	609-3570-ND	1.49	20.56	71600-308LF
10	0.676 (17.17)	0.240 (6.10)	0.512 (13.00)	609-3561-ND	1.55	21.75	71600-310LF
26	1.48 (37.59)	0.235 (5.97)	0.540 (13.70)	609-3649-ND	3.34	51.45	66900-026LF
PC Board Mount							
6	0.475 (12.08)	—	—	609-3082-ND	.90	11.30	69830-006LF
8	.0575 (14.62)	—	—	609-3083-ND	1.09	14.98	69830-008LF
20	1.176 (29.86)	—	—	609-3523-ND	1.76	24.40	69830-020LF
Crimp Tool							
Hand Press				609-1781-ND	4301.29/1		107484-002

.100" (2.54mm) Round Conductor Flat Cable in Precut Lengths

26 AWG (7 x 34) Stranded, Topcoat

Features:

- Gray PVC insulation
- UL Temperature Rating: -20°C ~ 105°C
- UL Voltage: 300V maximum
- UL Flammability Rating: VW-1
- UL Style No. 2651
- UL Recognized (File #E61522)
- CSA Certification (File #LL61126)

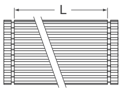

Digi-Key Part No.	Dim. L Inch (mm)
XXXX-02A-ND	2 (50.80)
XXXX-04A-ND	4 (101.6)
XXXX-06A-ND	6 (152.4)

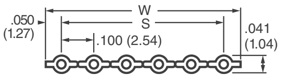

No. of Pos.	Dim. S Inch (mm)	Dim. W (Ref.) Inch (mm)
3	.200 (5.08)	.300 (7.62)
4	.300 (7.62)	.400 (10.16)
5	.400 (10.16)	.500 (12.7)
6	.500 (12.70)	.600 (15.24)
7	.600 (15.24)	.700 (17.78)
8	.700 (17.78)	.800 (20.32)
9	.800 (20.32)	.900 (22.86)
10	.900 (22.86)	1.000 (25.40)

No. of Pos.	Digi-Key Part No.	Pricing		Molex Part No.
		1	10	
3	WM03-02A-ND	.44	3.89	25001-0302
	WM03-04A-ND	.53	4.70	25001-0304
	WM03-06A-ND	.63	5.53	25001-0306
4	WM04-02A-ND	.60	5.29	25001-0402
	WM04-04A-ND	.74	6.56	25001-0404
	WM04-06A-ND	.92	8.15	25001-0406
5	WM05-02A-ND	.82	7.23	25001-0502
	WM05-04A-ND	1.53	13.48	25001-0504
	WM05-06A-ND	.98	8.63	25001-0506
6	WM06-02A-ND	.64	5.65	25001-0602
	WM06-04A-ND	.81	7.17	25001-0604
	WM06-06A-ND	1.03	9.12	25001-0606
7	WM07-02A-ND	.92	8.12	25001-0702
	WM07-04A-ND	.85	7.54	25001-0704
	WM07-06A-ND	1.09	9.60	25001-0706
8	WM08-02A-ND	.68	5.96	25001-0802
	WM08-04A-ND	.90	7.90	25001-0804
	WM08-06A-ND	1.15	10.15	25001-0806
9	WM09-02A-ND	.70	6.14	25001-0902
	WM09-04A-ND	.93	8.21	25001-0904
	WM09-06A-ND	1.21	10.64	25001-0906
10	WM10-02A-ND	1.10	9.67	25001-1002
	WM10-04A-ND	.98	8.63	25001-1004
	WM10-06A-ND	1.27	11.24	25001-1006

Computer Cable Assemblies

Fig. 1 — Parallel Extension

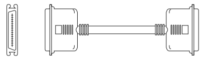

Fig. 2 — Parallel Printer (Snap Hood)

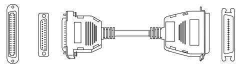

Fig. 3 — Parallel Printer (Molded Hood)

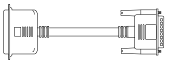

Fig. 4 — Right Angle Parallel Printer

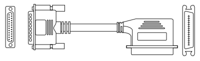

Fig. 5 — Serial Printer (Snap Hoods)

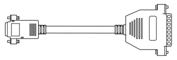

Fig. 6 — IEEE 1284 Bi-Directional Printer

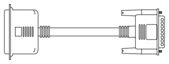

Fig. 7 — IEEE 1284 Bi-Directional Connection

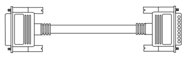

Fig. 8 — IEEE 1284 Bi-Directional Extension

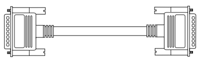

Fig. 9 — Connection Cable, 25-Pin Interface Serial/Parallel

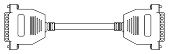

Fig. 10 — 25-Pin Interface Extension

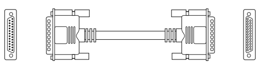

Fig. 11 — 9-Pin Interface Extension

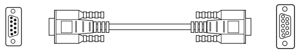

Fig. 12 — VGA Monitor Extension

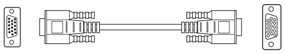

Fig. 13 — Premium VGA or XGA Monitor Extension

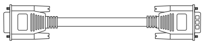

Fig. 14 — *NEW!* Premium VGA or XGA Monitor Connection Cable

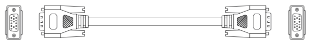

Fig. 15 — *NEW!* Premium XGA Monitor Extension with Ferrite Core

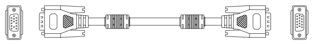

Fig. 16 — *NEW!* Premium XGA Monitor Connection with Ferrite Core

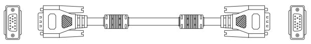

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
Molded Extension for 36-Pin Centronics Interfaces								
1	6.56 (2)	36	2x Centronics 36-Pin Male to Male	AE1362-ND	10.40	9.50	9.05	AK138-2-R
	9.84 (3)	36	2x Centronics 36-Pin Male to Male	AE1363-ND	12.33	11.41	10.80	AK426-3-R
	6.56 (2)	36	2x Centronics 36-Pin Male to Female	AE1364-ND	10.92	9.97	9.50	AK140-2-R
Parallel Printer Cable, IBM PC and Compatibles								
2	5.90 (1.8)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1366-ND	7.70	6.52	6.23	AK101-1.8-R
	9.84 (3)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1367-ND	7.44	6.79	6.47	AK102-3-R
	22.96 (7)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE9853-ND	9.68	8.85	8.43	AK104-7-R
3	6.56 (2)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE9858-ND	7.36	6.23	5.95	AK108-2-R
	9.84 (3)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE1368-ND	6.19	5.24	5.00	AK127-3-R
	22.96 (7)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE9859-ND	10.11	9.24	8.80	AK159-7-R
4	6.56 (2)	25	D-Sub 25-Pin Male to Right Angle Centronics 36-Pin Male	AE9860-ND	8.62	7.30	6.97	AK525-2-R
Serial Printer Cable, IBM PC and Compatibles								
5	9.84 (3)	8	D-Sub 9-Pin Female to D-Sub 25-Pin Male, Snap-Hoods	AE1370-ND	6.55	5.42	5.09	AK150-3-R
IEEE 1284 Bi-Directional Cable - Molded Hoods								
6	5.90 (1.8)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1371-ND	9.66	8.82	8.40	AK711-1.8-R
	16.40 (5)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1373-ND	13.99	13.17	12.80	AK713-5-R
7	5.90 (1.8)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE9861-ND	10.40	9.63	9.11	AK733-1.8-R
	9.84 (3)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE1374-ND	14.63	13.54	12.81	AK734-3-R
	16.40 (5)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE1375-ND	16.28	15.33	14.90	AK735-5-R
8	5.90 (1.8)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE9862-ND	11.10	10.27	9.72	AK736-1.8-R
	9.84 (3)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE1376-ND	14.63	13.54	12.81	AK737-3-R
	16.40 (5)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE1377-ND	16.28	15.33	14.90	AK738-5-R
Snap-Hood Connection for 25-Pin Interface								
9	6.56 (2)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Snap-Hoods	AE9863-ND	6.68	5.53	5.19	AK401-2-R
Molded Extension for 25-Pin Interfaces								
10	6.56 (2)	25	2x D-Sub 25-Pin Male to Male	AE1378-ND	7.89	6.68	6.38	AK137-2-R
	9.84 (3)	25	2x D-Sub 25-Pin Male to Male	AE9864-ND	9.33	8.52	8.12	AK162-3-R
	6.56 (2)	25	2x D-Sub 25-Pin Male to Female	AE9865-ND	9.02	7.63	7.29	AK135-2-R
	9.84 (3)	25	2x D-Sub 25-Pin Male to Female	AE9866-ND	8.69	7.36	7.03	AK166-3-R
	6.56 (2)	25	2x D-Sub 25-Pin Female to Female	AE9867-ND	7.59	6.43	6.14	AK133-2-R
	9.84 (3)	25	2x D-Sub 25-Pin Female to Female	AE9868-ND	9.01	8.23	7.84	AK170-3-R
Molded Extension for 9-Pin Interfaces								
11	6.56 (2)	9	2x D-Sub 9-Pin Male to Male	AE9869-ND	3.74	3.10	2.91	AK129-2-R
	9.84 (3)	9	2x D-Sub 9-Pin Male to Male	AE9870-ND	7.15	5.93	5.56	AK174-3-R
	6.56 (2)	9	2x D-Sub 9-Pin Male to Female	AE1379-ND	5.43	4.50	4.22	AK131-2-R
	9.84 (3)	9	2x D-Sub 9-Pin Male to Female	AE9871-ND	6.79	5.62	5.27	AK178-3-R
	6.56 (2)	9	2x D-Sub 9-Pin Female to Female	AE9872-ND	6.73	5.57	5.22	AK152-2-R
	9.84 (3)	9	2x D-Sub 9-Pin Female to Female	AE9873-ND	7.08	5.86	5.50	AK182-3-R
VGA Monitor Extension Cable - IBM PS/2								
12	6.56 (2)	—	2x HD D-Sub 15-Pin Male to Female	AE1380-ND	6.72	5.69	5.43	AK322-2-R
VGA Monitor Cable - IBM PS/2								
—	6.56 (2)	—	2x HD D-Sub 15-Pin Male to Male	AE10183-ND	6.58	5.57	5.32	AK532-2-R
Molded VGA to 5 x BNC, Monitor Cable								
—	6.56 (2)	—	HD D-Sub 15-Pin Male to 5x BNC Male	AE1381-ND	13.04	12.27	11.93	AK553-2-R
Molded Premium VGA Monitor Extension Cable								
13	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE9874-ND	9.63	8.79	8.37	AK3220-1.8-R
NEW! Molded Premium XGA Monitor Extension Cable NEW!								
13	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE10591-ND	6.69	5.67	5.41	AK3220X-R
	9.84 (3)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE10592-ND	8.63	7.88	7.51	AK3730X-R
NEW! Molded Premium VGA Monitor Connection Cable NEW!								
14	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10595-ND	6.92	5.73	5.37	AK5320-1.8-R
	9.84 (3)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10596-ND	8.98	7.60	7.25	AK3760-3-R
NEW! Molded Premium XGA Monitor Connection Cable NEW!								
14	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10597-ND	6.64	5.62	5.36	AK5320X-1.8-R
	9.84 (3)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10598-ND	8.58	7.84	7.46	AK3760X-3-R
NEW! Molded Premium XGA Monitor Extension with Ferrite Core NEW!								
15	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE10593-ND	8.51	7.21	6.88	AK3220XF-R
	9.84 (3)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE10594-ND	9.55	8.72	8.31	AK3730XF-R
NEW! Molded Premium XGA Monitor Connection with Ferrite Core NEW!								
16	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10599-ND	7.68	6.50	6.20	AK5320XF-R
	9.84 (3)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Male	AE10600-ND	9.50	8.68	8.27	AK3760XF-R

(Continued)

Computer Cable Assemblies *(Cont.)*

Fig. 17— PC/XT/AT Keyboard Extension

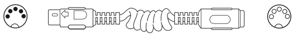

Fig. 18 — PS/2 Keyboard Extension - Spiral

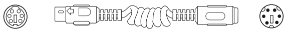

Fig. 19 — PS/2 Keyboard Extension – Straight

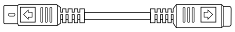

Fig. 20 — PS/2 Keyboard Cable – Straight

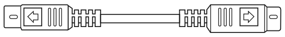

Fig. 21 — IBM Modem/Adapter

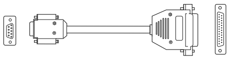

AE1382-ND and AE9877-ND:
1-8, 2-3, 3-2, 4-20, 5-7, 6-6, 7-4, 8-5, 9-22, shell-shell
AE9878-ND and AE1383-ND:
1-8, 2-2, 3-3, 4-6, 5-7, 6-20, 7-5, 8-4, 9-22, shell-shell

Fig. 22 — Null Modem Cross-Over Cable

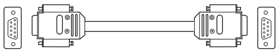

AE9879-ND and AE9880-ND:
1-4, 2-3, 3-2, 4-1, 5-5, 7-8, 8-7, 9-9, shell-shell

Fig. 23 — Null Modem Serial Cable

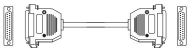

AE1385-ND:
2-15, 3-13, 4-12, 5-10, 6-11, 10-5, 11-6, 12-4, 13-3, 15-2, 25-25

Fig. 24 — PS/2 Keyboard Adapter

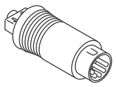

Fig. 25 — D-Sub Adapter

Adapter to assist in the installation of interface systems, using standard cables.

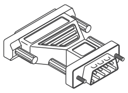

Fig. 26 — PS/2 Mouse-Cable Adapter

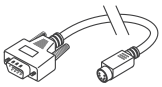

Fig. 27 — Jumper Box

Adapter for special matching of RS 232 interfaces. The link wires included give an easy economical way of permanently re-configuring pin functions without rewiring cable assemblies.

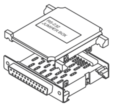

Fig. 28 — D-Sub/RS 232 Adapter

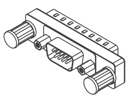

Fig. 29 — Gender Changer

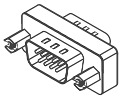

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
			IBM PC-XT/AT Keyboard Extension					
17	16.40 (5)	5	5-Pin Standard DIN Male to Female	AE10261-ND	8.95	8.17	7.78	AK307-5-R
			Molded PS/2 Keyboard Extension					
18	6.56 (2)	6	6-Pin MiniDIN Male to Female, Spiral	AE10177-ND	6.84	5.67	5.31	AK323-2-R
19	6.56 (2)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Female, Straight	AE9875-ND	3.62	3.00	2.81	AK323G-2-R
			PS/2 Keyboard Cable - Straight					
20	6.56 (2)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Male, Molded	AE9876-ND	4.02	3.33	3.13	AK678-2-R
			PC Modem (AT Adapter Cable)					
21	0.82 (0.25)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1382-ND	3.38	2.80	2.63	AK128-.25-R
	6.56 (2)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9877-ND	5.34	4.42	4.14	AK125-2-R
			Modem Cables					
21	9.84 (3)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9878-ND	7.17	5.93	5.56	AK149-3-R
	9.84 (3)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE1383-ND	7.13	5.90	5.54	AK124-3-R
			Null Modem, Cross-Cables					
22	9.84 (3)	9	D-Sub 9-Pin Female to D-Sub 9-Pin Female	AE9879-ND	6.57	5.56	5.31	AK143-3-R
	9.84 (3)	9	D-Sub 9-Pin Male to D-Sub 9-Pin Female	AE9880-ND	7.09	5.87	5.50	AK142-3-R
			Null Modem, Serial Cables					
23	9.84 (3)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male	AE1385-ND	7.15	6.06	5.78	AK250-3-R
			PS/2 Keyboard Adapters					
24	—	—	1x MiniDIN, 6-Pin Female to 1x DIN 5-Pin Male	AE1387-ND	3.54	2.94	2.75	AB961-R
			D-Sub Adapters					
25	—	—	9-Pin Male to 25-Pin Male	AE1389-ND	4.40	3.65	3.42	AB913-R
	—	—	9-Pin Female to 25-Pin Male	AE9881-ND	3.95	3.27	3.07	AB914-R
	—	—	9-Pin Male to 25-Pin Female	AE9882-ND	3.47	2.87	2.70	AB914F-R
	—	—	9-Pin Female to 25-Pin Female	AE10355-ND ***NEW!***	3.48	2.88	2.70	AB915-R
			PS/2 Mouse-Cable Adapters					
26	0.5 (0.15)	—	1x MiniDIN, 6-Pin Male to 1x D-Sub 9-Pin Female	AE1393-ND	3.15	2.62	2.43	AB450K-R
			Jumper Box					
27	—	—	1x Male, 1x Female, 25-Pin, Plastic	AE10180-ND	8.44	7.71	7.34	AB972-R
	—	—	1x Male, 1x Female, 25-Pin, Metallized	AE10182-ND	8.90	8.13	7.74	AB973-R
			D-Sub/RS 232 Adapters					
28	—	—	D-Sub 9-Pin Male to D-Sub 25-Pin Male	AE10291-ND	5.21	4.32	4.05	AB467-R
	—	—	D-Sub 9-Pin Male to D-Sub 25-Pin Female	AE10292-ND	4.56	3.78	3.54	AB468-R
	—	—	D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE10293-ND	4.56	3.78	3.54	AB469-R
	—	—	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE10294-ND	4.24	3.51	3.29	AB470-R
			Gender Changers					
29	—	—	D-Sub 9 Position Male to Male	AE10295-ND	3.58	2.97	2.79	AB410-R
	—	—	D-Sub 9 Position Female to Female	AE10296-ND	3.58	2.97	2.79	AB411-R
	—	—	D-Sub 15 Position Male to Male	AE10297-ND	3.08	2.55	2.39	AB412-R
	—	—	D-Sub 15 Position Female to Female	AE10298-ND	3.75	3.11	2.91	AB413-R
	—	—	D-Sub 25 Position Male to Male	AE10299-ND	3.75	3.11	2.91	AB414-R
	—	—	D-Sub 25 Position Female to Female	AE10300-ND	3.91	3.24	3.04	AB415-R
	—	—	D-Sub HD 15 Position Male to Male	AE10301-ND	4.56	3.78	3.54	AB418-R
	—	—	D-Sub HD 15 Position Female to Female	AE10302-ND	4.56	3.78	3.54	AB420-R

(Continued)

Computer Cable Assemblies *(Cont.)*

Fig. 30 — D-Sub/RJ Adapter

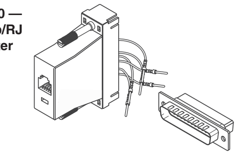

Fig. 31 — CD-ROM Audio Cable

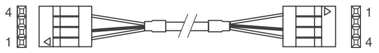

Fig. 32 — CD-ROM Audio Cable

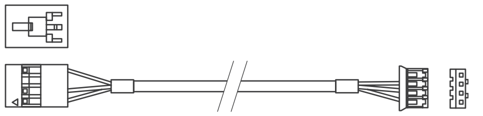

Fig. 33 — Internal S/P - DIF Audio Cable

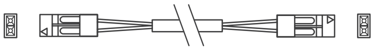

Fig. 34 — Disk Drive Power Splitters

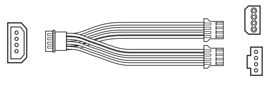

Fig. 35 — Y-Power Cord

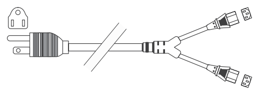

Fig. 36 — Power Cord, Straight/Angled

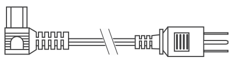

Fig. 37 — Power Cord, Straight/Straight

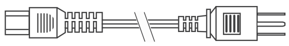

Fig. 38 — Power Cord Single Ended, Straight

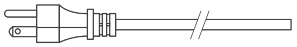

Fig. 39 — Power Cord Single Ended, Straight

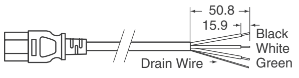

Fig. 40 — Power Cord Single Ended, Angled

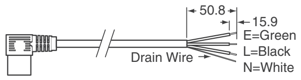

Fig. 41 — Power Cord Single Ended, Angled

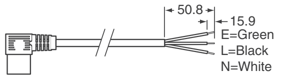

Fig. 42 — Power Cord Single Ended, Straight

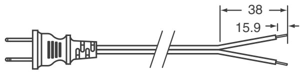

Fig. 43 — Power Cord, Straight/8-Device

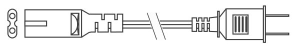

Fig. 44 — Power Cord Extension

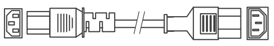

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
D-Sub/RJ Adapters (Beige)								
30	—	—	9 Position Male RJ12 Jack	AE10307-ND	4.72	3.91	3.67	AT-23064-R
	—	—	9 Position Female RJ12 Jack	AE10308-ND	4.72	3.91	3.67	AT-23065-R
	—	—	9 Position Male RJ45 Jack	AE10309-ND	4.72	3.91	3.67	AT-23066-R
	—	—	9 Position Female RJ45 Jack	AE10310-ND	4.72	3.91	3.67	AT-23067-R
	—	—	25 Position Male RJ12 Jack	AE10303-ND	4.34	3.60	3.37	AT-23052-R
	—	—	25 Position Female RJ12 Jack	AE10304-ND	4.34	3.60	3.37	AT-23053-R
	—	—	25 Position Male RJ45 Jack	AE10305-ND	5.05	4.19	3.92	AT-23054-R
	—	—	25 Position Female RJ45 Jack	AE10306-ND	4.34	3.60	3.37	AT-23055-R
Power Splitter Cables								
31	1.64 (0.5)	—	Audio CD-ROM 4 Position 3 Wire	AE1396-ND	1.82	1.52	1.40	AK2525-R
32	1.64 (0.5)	—	Audio CD-ROM 4 Position 3 Wire	AE1397-ND	1.63	1.35	1.25	AK2524-R
33	1.64 (0.5)	—	Internal Cable 2-Pin Housing/Housing	AE9884-ND	2.28	1.90	1.76	AK2526DVD-R
34	0.66 (0.2)	4	Power Cable for 2 - 5 1/4” Drives	AE9885-ND	2.51	2.09	1.93	AK319-.2-R
	0.66 (0.2)	4	Power Cable for 2 - 3 1/2” Drives	AE1398-ND	2.89	2.40	2.22	AK520-.2-R
	0.66 (0.2)	4	Power Cable for 3 1/2” and 5 1/4” Drives	AE1399-ND	2.90	2.41	2.23	AK521-.2-R
Y-Power Cord								
35	6.56 (2)	—	1x Power Plug to 2x Straight Connector, 10A, 125V	AE9886-ND	11.56	10.70	10.12	AK500/Y-U-R
Power Cords								
36	6.56 (2)	—	Power Plug, Straight to IEC Connector, Angled, 10A, 125V	AE9887-ND	6.97	5.90	5.63	AK500/U-1-R
37	6.56 (2)	—	Power Plug, Straight to IEC Connector, Straight, 10A, 125V	AE9888-ND	7.02	5.94	5.67	AK500/U-2-R
38	6.56 (2)	—	Cord SVT 18AWG 3 Cond Shielded	AE9889-ND	6.71	5.68	5.42	AK500-OE-5-2-R
	9.84 (3)	—	Cord SVT 18AWG 3 Cond Shielded	AE9890-ND	8.23	7.52	7.16	AK500-OE-5-3-R
	6.56 (2)	—	Cord SJT 18AWG 3 Cond Shielded	AE9891-ND	6.92	5.86	5.59	AK500-OE-6-2-R
	9.84 (3)	—	Cord SJT 18AWG 3 Cond Shielded	AE9892-ND	8.60	7.86	7.48	AK500-OE-6-3-R
	6.56 (2)	—	Cord SVT 18AWG 3 Cond Shielded	AE9893-ND	6.58	5.57	5.32	AK500-OE-7-2-R
39	6.56 (2)	—	Cord SJT 18AWG 3 Cond Shielded	AE9895-ND	6.94	5.88	5.61	AK500-OE-9-2-R
	9.84 (3)	—	Cord SJT 18AWG 3 Cond Shielded	AE9896-ND	9.75	8.91	8.48	AK500-OE-9-3-R
40	6.56 (2)	—	Cord SJT 18AWG 3 Cond Shielded	AE9897-ND	6.89	5.83	5.57	AK500-RA-5-2-R
41	6.56 (2)	—	Cord SVT 18AWG 3 Cond	AE9899-ND	6.03	5.00	4.68	AK500-RA-6-2-R
	6.56 (2)	—	Cord SJT 18AWG 3 Cond	AE9900-ND	6.87	5.69	5.34	AK500-RA-7-2-R
42	6 (1.83)	—	Cord SPT-1 18AWG 2 Cond	AE9902-ND	4.87	4.04	3.78	AK500-OE-12-6F-R
	8.99 (2.74)	—	Cord SPT-1 18AWG 2 Cond	AE9903-ND	6.90	5.72	5.36	AK500-OE-12-9F-R
	6 (1.83)	—	Cord SPT-2 18AWG 2 Cond	AE9904-ND	4.33	3.59	3.37	AK500-OE-13-6F-R
43	6.56 (2)	—	Power Plug, Straight to Figure 8 Device Connector, Straight	AE9906-ND	6.15	5.09	4.77	AK500/U-3-R
Power Cord Extension								
44	6.56 (2)	—	IEC Plug, Straight to IEC Socket, Straight, 10A, 125V	AE9854-ND	8.68	7.35	7.02	AK500/U-4-R
	3.28 (1)	—	Cord SJT 18AWG 3 Cond Shielded	AE9908-ND	8.32	7.04	6.72	AK500-JC-5-1-R
	3.28 (1)	—	Cord SJT 18AWG 3 Cond	AE9909-ND	7.54	6.38	6.09	AK500-JC-6-1-R
	1.64 (0.5)	—	Cord SVT 18AWG 3 Cond	AE9910-ND	4.29	3.56	3.33	AK500-OE-11-.5-R
	3.28 (1)	—	Cord SVT 18AWG 3 Cond	AE9911-ND	6.53	5.53	5.28	AK500-OE-11-1-R
	4.92 (1.5)	—	Cord SVT 18AWG 3 Cond	AE9912-ND	6.60	5.59	5.34	AK500-OE-11-1.5-R
	6.56 (2)	—	Cord SVT 18AWG 3 Cond	AE9913-ND	7.46	6.32	6.03	AK500-OE-11-2-R
	8.20 (2.5)	—	Cord SVT 18AWG 3 Cond	AE9914-ND	7.57	6.41	6.12	AK500-OE-11-2.5-R

(Continued)

Computer Cable Assemblies *(Cont.)*

Fig. 45 — RCA Male to Male

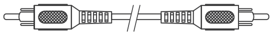

Fig. 46 — RCA Male to Female

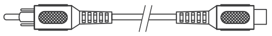

Fig. 47 — RCA Male to Male

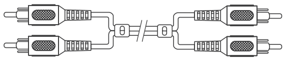

Fig. 48 — RCA Male to Female

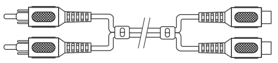

Fig. 49 — RCA Male to Male, High Quality

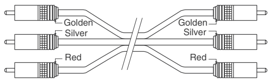

Fig. 50 — S Video Male to Male and RCA Male to Male, High Quality

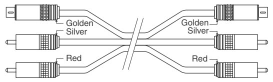

Fig. 51 — RCA Male to Male, High Quality

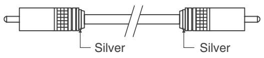

Fig. 52 —S Video Male to Male, High Quality

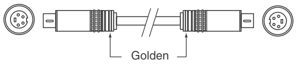

Fig. 53 — S Video Male to Female, High Quality

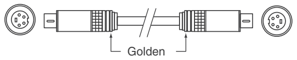

Fig. 54 — RCA Male to Stereo 3.5mm Male

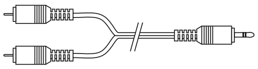

Fig. 55 — Stereo 3.5mm Male to RCA Female

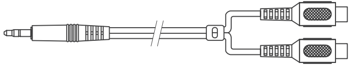

Fig. 56 — Stereo 3.5mm Male to Male

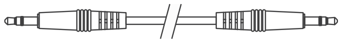

Fig. 57 — Stereo 3.5mm Male to Female

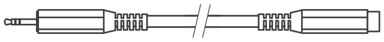

Fig. 58 — Digital USB Microscope

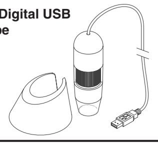

Fig. 59 — USB 2.0 Multi Card Reader (Stick Type)

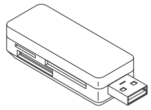

Fig. 60 — "Twister" Notebook USB 2.0 Hub

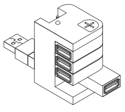

Fig. 61 — USB 2.0 Hub

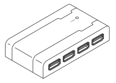

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Assmann Part No.
			Multi-Media Cables					
45	4.92 (1.5)	—	RCA Male to Male	AE1400-ND	3.06	2.55	2.36	AK-AV200-R
	6.56 (2)	—	RCA Male to Male	AE1401-ND	3.13	2.60	2.44	AK302-2-R
	8.20 (2.5)	—	RCA Male to Male	AE1402-ND	2.97	2.46	2.31	AK-AV201-R
46	8.20 (2.5)	—	RCA Male to Female	AE1403-ND	3.13	2.60	2.44	AK-AV202-R
47	4.92 (1.5)	—	2RCA Male to Male	AE1404-ND	3.95	3.27	3.07	AKCHMM-015-R
	6.56 (2)	—	2RCA Male to Male	AE1405-ND	4.76	3.95	3.70	AK-CHMM-2-R
	8.20 (2.5)	—	2RCA Male to Male	AE1406-ND	5.54	4.59	4.30	AKCHMM-025-R
	16.40 (5)	—	2RCA Male to Male	AE1407-ND	7.59	6.43	6.14	AKCHMM-050-R
48	4.92 (1.5)	—	2RCA Male to Female (Red and White)	AE1408-ND	3.91	3.24	3.04	AKCHMF-015-R
	6.56 (2)	—	2RCA Male to Female (Red and White)	AE1409-ND	3.43	2.84	2.66	AKCHMF-2-R
	8.20 (2.5)	—	2RCA Male to Female (Red and White)	AE1411-ND	4.23	3.51	3.29	AKCHMF-025-R
	16.40 (5)	—	2RCA Male to Female (Red and White)	AE1412-ND	6.76	5.60	5.25	AKCHMF-050-R
49	4.92 (1.5)	—	Audio/Video RCA High Quality, Male to Male	AE1415-ND	16.77	15.79	15.34	AK-AV504-R
	16.40 (5)	—	Audio/Video RCA High Quality, Male to Male	AE1416-ND	19.95	19.29	18.62	AK-AV505-R
50	4.92 (1.5)	—	Audio/Video RCA High Quality, Male to Male	AE1417-ND	14.22	13.39	13.01	AK-AV510-R
	16.40 (5)	—	Audio/Video RCA High Quality, Male to Male	AE1418-ND	23.39	22.61	21.83	AK-AV511-R
51	4.92 (1.5)	—	Audio RCA High Quality, Male to Male	AE1419-ND	9.02	7.64	7.29	AK-AV502-R
	16.40 (5)	—	Audio RCA High Quality, Male to Male	AE1420-ND	10.91	9.97	9.49	AK-AV503-R
52	4.92 (1.5)	—	Video S-VHS High Quality, Male to Male	AE10074-ND	8.33	7.61	7.24	AK-AV506-R
	16.40 (5)	—	Video S-VHS High Quality, Male to Male	AE1422-ND	13.78	12.75	12.06	AK-AV507-R
53	4.92 (1.5)	—	Video S-VHS High Quality, Male to Female	AE9915-ND	9.99	9.13	8.69	AK-AV508-R
	16.40 (5)	—	Video S-VHS High Quality, Male to Female	AE1423-ND	12.27	11.35	10.74	AK-AV509-R
54	4.92 (1.5)	—	3.5mm Stereo Male to 2RCA Male	AE9916-ND	3.87	3.21	3.01	AK243-015-R
	6.56 (2)	—	3.5mm Stereo Cable, 2 Phono Male	AE9917-ND	3.12	2.58	2.42	AK243-2-R
	16.40 (5)	—	3.5mm Stereo Male to 2RCA Male	AE1425-ND	7.13	5.90	5.54	AK243-050-R
	32.8 (10)	—	3.5mm Stereo Male to 2RCA Male	AE1426-ND	7.17	5.94	5.57	AK243-10M-R
55	6.56 (2)	—	3.5mm Stereo Male to 2RCA Female	AE1427-ND	4.44	3.68	3.45	AK244-R
56	4.92 (1.5)	—	3.5mm Stereo Male to Male	AE10361-ND ***NEW!***	3.38	2.80	2.63	AK-AV100-R
	6.56 (2)	—	3.5mm Stereo Male to Male	AE9918-ND	3.30	2.74	2.57	AK203/MM-R
57	8.20 (2.5)	—	3.5mm Stereo Male to Female	AE9919-ND	4.48	3.71	3.48	AK203-2.5-R
			Computer Accessories					
58			Digital USB Microscope 10x ~ 200x	AE10324-ND	123.45	119.05	114.64	DA-70350
59			USB 2.0 Multi Card Reader (Stick Type)	AE10330-ND	13.52	12.51	11.83	DA-70310-1
60			"Twister" Notebook USB 2.0 Hub, 4-Port, Type A	AE10319-ND	10.21	9.33	8.88	DA-70213-1
61			USB 2.0 Hub, 4-Port, Type A	AE10320-ND	15.76	14.84	14.42	DA-70224
			USB 2.0 Hub, 7-Port, Type A	AE10321-ND	22.73	21.97	21.21	DA-70227
—			Bluetooth Version 2.1 EDR Tiny USB Adaptor, Class 2+	AE10328-ND	21.39	20.68	19.97	DN-3021
			Card Reader USB 2.0 56in1 + Hub	AE10323-ND	21.53	20.81	20.09	DA-70312
			USB Mini Hub 2.0, 4-Port	AE10329-ND	10.22	9.46	8.95	DA-70132-2
			USB Pocket KVM Switch, 2-Port	AE10325-ND	40.74	39.29	37.83	DC-11402
			USB-PS/2-KVM Switch, 4-Port (Cables for 2 included)	AE10326-ND	91.27	88.01	84.75	DC-12202-1
			KVM Cable for DC-12202-1, 3 Meters	AE10407-ND ***NEW!***	13.07	12.31	11.96	AK82002-R

SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies

HP = Half Pitch

Fig. 1 — SCSI 2 to SCSI 2 Round Cable

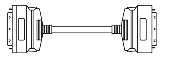

Fig. 2 — SCSI-3 Extension Cable

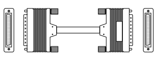

Fig. 3 — SCSI-3 Internal Flat Cable

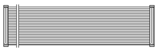

Fig. 4 — 40 Pin Socket Connectors

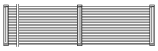

Fig. 5 — Ultra ATA Flat Cable

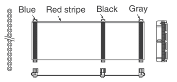

Fig. 6 — Serial ATA Cable

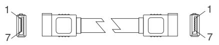

Fig. 7 — Serial ATA Cable Right Angle

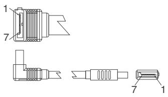

Fig. 8 — Serial ATA Cable with Power Connector

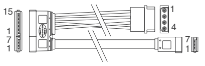

Fig. 9 — Serial ATA Cable with Power Cable

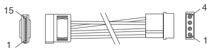

Fig. 10 — HDMI-A Male to HDMI-A Male

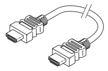

Fig. 11 — HDMI-A Male to DVI-D

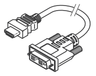

Fig. 12 — IEEE 1394 Cable

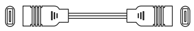

Fig. 13 — IEEE 1394 Cable

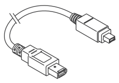

Fig. 14 — IEEE 1394 Cable

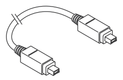

Fig. 15 — IEEE 1394 Receptacle

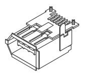

Fig. 16 — IEEE 1394 Receptacle

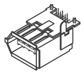

Fig. 17 — IEEE 1394 Receptacle

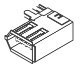

Fig. 18 — USB 4P Receptacle Right Angle Connector

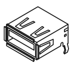

Fig. 19 — USB 4P Receptacle Right Angle Connector

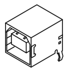

Fig. 20 — USB 4P Receptacle Right Angle Connector ***NEW!***

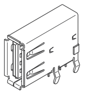

Fig. 21 — USB 4P Receptacle Dual Port Right Angle Thru-Hole Connector

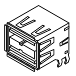

Fig. 22 — USB Plugs and Hoods

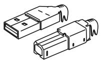

Fig. 23 — Mini USB Cables with 4 Position Male

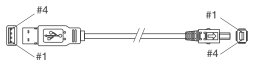

Fig. 24 — Mini USB Cables with 5 Position Male

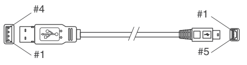

Fig. 25 — Mini USB Cable with 5 Position Female to 5 Position Male

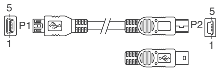

Fig. 26 — USB Cable, A Male Open End

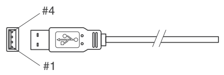

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
FAST SCSI 2 to SCSI 2 Cable, Shielded, UL 2919								
1	0.90	50	HP D-sub 50, HP D-sub, Male	AE1428-ND	14.14	13.31	12.93	AK579/F-1-R
	2.0	50	HP D-sub 50, HP D-sub, Male	AE1429-ND	16.18	15.65	15.11	AK579/F-2-R
SCSI-3 Series, Round Cable								
2	0.91	68	HP D-sub 68 Male x 2, A Cable	AE1430-ND	15.43	14.92	14.41	AK-Y1301-R
SCSI-3 Series, Flat Cable								
3	0.45	68	.635mm HP D-sub 68 Male x 2, P Cable	AE1489-ND	10.59	9.80	9.27	AK-Y2301-R
Hard Drive Cable for 2 x IDE / AT Bus Hard Drives								
4	0.5	40	(3) 40 Pin Socket Connectors	AE10263-ND	4.18	3.46	3.24	AK5430-.5-R
Ultra ATA Flat Cable								
5	0.46	40	Ultra ATA HDD 100Mbps	AE10184-ND	4.87	4.04	3.78	AK-ATA-100-R
Serial ATA Cables								
6	0.3	7	Serial ATA Cable	AE10077-ND	3.11	2.58	2.42	AK-SATA-030-R
	0.5	7	Serial ATA Cable	AE10079-ND	3.00	2.49	2.34	AK-SATA-050-R
	0.75	7	Serial ATA Cable	AE10081-ND	3.62	3.00	2.81	AK-SATA-075-R
	1.0	7	Serial ATA Cable	AE10083-ND	3.64	3.02	2.83	AK-SATA-100-R
7	0.3	7	Serial ATA Cable Right Angle	AE10078-ND	3.11	2.58	2.42	AK-SATA-030DL-R
	0.5	7	Serial ATA Cable Right Angle	AE10080-ND	3.00	2.49	2.34	AK-SATA-050DL-R
8	0.5	7	Serial ATA Cable 4-Position Power Connector	AE10084-ND	5.79	4.79	4.50	AK-SATA-SP-050-R
	0.75	7	Serial ATA Cable 4-Position Power Connector	AE10085-ND	6.17	5.11	4.79	AK-SATA-SP-075-R
9	0.15	4	Power Supply Cable 15-Position to 4-Position	AE10087-ND	2.92	2.43	2.25	AK-SATA-PC-015-R
HDMI / DVI Cables and Adapters								
10	2.0	—	HDMI-A Male to HDMI-A Male Cable	AE10256-ND	7.64	6.47	6.18	AK627-2-R
	3.0	—	HDMI-A Male to HDMI-A Male Cable	AE10257-ND	8.69	7.94	7.56	AK627-3-R
	5.0	—	HDMI-A Male to HDMI-A Male Cable	AE10246-ND	12.62	11.68	11.05	AK627-5-R
11	2.0	—	HDMI-A Male to DVI-D Cable	AE10258-ND	9.68	8.85	8.42	AK639-2-R
	3.0	—	HDMI-A Male to DVI-D Cable	AE10259-ND	10.93	9.98	9.50	AK639-3-R
	5.0	—	HDMI-A Male to DVI-D Cable	AE10260-ND	14.08	13.03	12.32	AK639-5-R
—	—	—	HDMI-A Male to DVI-D 24+1, Female Adapter	AE10249-ND	9.86	9.00	8.58	AB556-R
	—	—	HDMI-A Female to DVI-D 24+1, Female Adapter	AE10254-ND	9.44	8.74	8.26	AB566-R
	—	—	HDMI-A Female to DVI-D 24+1, Male Adapter	AE10255-ND	11.47	10.48	9.98	AB567-R
	—	—	HDMI-A Female to HDMI-A, Female Adapter	AE10251-ND	9.86	9.00	8.58	AB560-R
	—	—	HDMI-A Male to HDMI-A, Female Adapter	AE10252-ND	9.44	8.74	8.26	AB561-R
	—	—	HDMI-A Male to HDMI-A, Male Adapter	AE10253-ND	9.86	9.00	8.58	AB562-R
IEEE 1394 Cable Double Shielded								
12	1.8	6	6-Pin Male to 6-Pin Male	AE1432-ND	10.52	9.61	9.15	AK-1394-18-R
	3.0	6	6-Pin Male to 6-Pin Male	AE1433-ND	11.32	10.47	9.91	AK-1394-30-R
	5.0	6	6-Pin Male to 6-Pin Male	AE1434-ND	16.81	15.83	15.38	AK-1394-50-R
13	1.8	5	6-Pin Male to 4-Pin Male	AE1435-ND	9.73	8.89	8.46	AK-1394-184-R
	5.0	4	6-Pin Male to 4-Pin Male	AE1437-ND	13.18	12.41	12.06	AK-1394-504-R
14	1.8	4	4-Pin Male to 4-Pin Male	AE1438-ND	9.97	9.11	8.68	AK-1394-1844-R

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
IEEE 1394 and USB Connectors								
15	—	—	IEEE 1394 Receptacle Horizontal SMT	AE9920-ND	2.80	2.33	2.16	A-IE-S-SMT-R
16	—	—	IEEE 1394 Receptacle Horizontal PCB	AE9921-ND	2.68	2.23	2.06	A-IE-S-DIP-R
17	—	—	IEEE 1394 Receptacle Vertical PCB	AE9922-ND	2.68	2.23	2.06	A-IE-E-DIP-R
18	—	4	USB 4P Receptacle Thru-hole, Type A	AE9923-ND	.98	.77	.71	AU-Y1005-R
	—	4	USB 2.0, 4P Receptacle Thru-hole, Type A	AE10331-ND✓	1.07	.83	.78	AU-Y1005-2-R
	—	4	USB 3.0, 4P Receptacle Thru-hole, Type A	AE10410-ND✓	2.35	1.96	1.81	AU-Y1005-3-R
	—	4	USB 4P Receptacle SMT, Type A	AE9924-ND	1.15	.90	.84	AU-Y1006-R
	—	4	USB 2.0, 4P Receptacle SMT, Type A	AE10332-ND✓	1.24	.97	.90	AU-Y1006-2-R
19	—	4	USB 4P Receptacle Thru-hole, Type B	AE9925-ND	1.24	.97	.90	AU-Y1007-R
	—	4	USB 2.0, 4P Receptacle Thru-hole, Type B	AE10333-ND✓	1.32	1.03	.96	AU-Y1007-2-R
20	—	4	USB 1.1, 4P Receptacle Thru-hole, Type A	AE10401-ND✓	1.27	.99	.92	A-USB-A-E-R
	—	4	USB 2.0, 4P Receptacle Thru-hole, Type A	AE10400-ND✓	1.39	1.08	1.01	A-USB/2-A-E-R
21	—	4	USB 4P Receptacle Dual Port, Type A	AE9926-ND	1.75	1.36	1.27	AU-Y1008-R
	—	4	USB 2.0, 4P Receptacle Dual Port, Type A	AE10334-ND✓	1.84	1.43	1.33	AU-Y1008-2-R
USB Plugs and Hoods								
22	—	—	USB A-Male, Solder Version	AE10091-ND	.68	.48	.41	A-USBPA-R
	—	—	USB 3.0 A-Male, Solder Version	AE10411-ND✓	1.74	1.36	1.26	A-USBPA-3-R
	—	—	Hood for USB A Male	AE10090-ND	.87	.54	.41	A-USBPA-HOOD-R
	—	—	Hood for USB B Male	AE1441-ND	.87	.54	.41	A-USBPB-HOOD-R
	—	—	USB B-Male, Solder Version	AE10178-ND	.68	.48	.41	A-USBPB-R
USB Cables								
23	1.0	4	Cable Mini USB 4-Pin Male	AE1442-ND	4.04	3.35	3.14	AK670M-1-R
	2.0	4	Cable Mini USB 4-Pin Male	AE1443-ND	4.96	4.11	3.85	AK670M-2-R
	1.0	4	Cable Mini USB 2.0, 4-Pin Male	AE1444-ND	3.91	3.24	3.04	AK670M/2-1-R
	2.0	4	Cable Mini USB 2.0, 4-Pin Male	AE1445-ND	5.48	4.54	4.25	AK670M/2-2-R
	3.0	4	Cable Mini USB 2.0, 4-Pin Male	AE1446-ND	6.74	5.58	5.23	AK670M/2-3-R
	5.0	4	Cable Mini USB 2.0, 4-Pin Male	AE1447-ND	8.50	7.19	6.87	AK670M/2-5-R
24	1.0	4	Cable Mini USB 5-Pin Male	AE1448-ND	5.25	4.35	4.08	AK672M-1-R
	2.0	4	Cable Mini USB 5-Pin Male	AE9927-ND	5.69	4.71	4.42	AK672M-2-R
	3.0	4	Cable Mini USB 5-Pin Male	AE9928-ND	5.80	4.80	4.50	AK672M-3-R
	5.0	4	Cable Mini USB 5-Pin Male	AE1449-ND	7.38	6.25	5.96	AK672M-5-R
	1.0	4	Cable Mini USB 2.0, 5-Pin Male	AE1450-ND	3.55	2.94	2.76	AK672M/2-1-R
	2.0	4	Cable Mini USB 2.0, 5-Pin Male	AE9929-ND	5.12	4.24	3.98	AK672M/2-2-R
	3.0	4	Cable Mini USB 2.0, 5-Pin Male	AE1451-ND	6.21	5.14	4.82	AK672M/2-3-R

✓ ***NEW!***

(Continued)

SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies *(Cont.)*

Fig. 27 — USB Cable, A-A Male

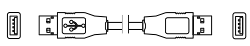

Fig. 28 — USB Cable, B-B Male

Fig. 29 — USB Cable, A-B Male

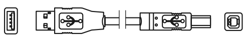

Fig. 30 — USB Cable, A Male to Micro A Male *NEW!*

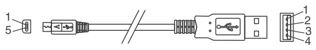

Fig. 31 — USB Cable, A Male to Micro B Male *NEW!*

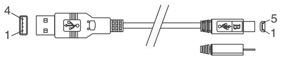

Fig. 32 — USB Cable, Micro A Male to Micro A Male *NEW!*

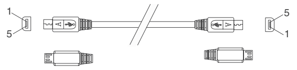

Fig. 33 — USB Cable, Micro B Male to Micro B Male *NEW!*

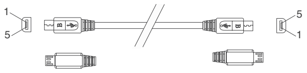

Fig. 34 — USB Cable, Micro A Male to Micro B Male *NEW!*

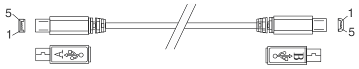

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
24	5.0	4	Cable Mini USB 2.0, 5-Pin Male	AE1452-ND	6.85	5.80	5.54	AK672M/2-5-R
25	1.0	4	Cable Mini USB, 5-Pin Female to 5-Pin Male	AE10311-ND	4.81	3.99	3.74	AK669M-1-R
	2.0	4	Cable Mini USB, 5-Pin Female to 5-Pin Male	AE10312-ND	7.11	5.88	5.52	AK669M-2-R
26	2.0	—	Cable USB A Male, Open End	AE9855-ND	4.18	3.46	3.24	AK670-OE-R
	2.0	—	Cable USB 2.0, A Male, x Open End	AE10357-ND✔	6.18	5.12	4.80	AK670/2-OE-R
27	3.0	4	Cable USB A-A Male	AE10358-ND✔	6.89	5.71	5.35	AK670-3-R
	5.0	4	Cable USB A-A Male	AE1453-ND	9.06	7.67	7.33	AK670-5-R
	1.0	4	Cable USB 2.0, A-A Male	AE1454-ND	4.14	3.43	3.21	AK670/2-1-R
	2.0	4	Cable USB 2.0, A-A Male	AE9930-ND	5.56	4.61	4.32	AK670/2-R
	3.0	4	Cable USB 2.0, A-A Male	AE1455-ND	7.11	5.89	5.52	AK670/2-3-R
	5.0	4	Cable USB 2.0, A-A Male	AE1456-ND	8.12	7.42	7.06	AK670/2-5-R
	1.0	9	Cable USB 3.0, A-A Male	AE10412-ND✔	7.51	6.36	6.07	AK670/3-1-R
	2.0	9	Cable USB 3.0, A-A Male	AE10413-ND✔	9.61	8.78	8.36	AK670/3-2-R
	3.0	9	Cable USB 3.0, A-A Male	AE10414-ND✔	10.10	9.22	8.78	AK670/3-3-R
	5.0	9	Cable USB 3.0, A-A Male	AE10415-ND✔	14.42	13.34	12.62	AK670/3-5-R
28	2.0	4	Cable USB B-B Male	AE1457-ND	5.39	4.46	4.18	AK673-2-R
	1.0	4	Cable USB 2.0, B-B Male	AE1458-ND	4.14	3.43	3.21	AK673/2-1-R
	2.0	4	Cable USB 2.0, B-B Male	AE1459-ND	5.25	4.35	4.08	AK673/2-2-R
	5.0	4	Cable USB 2.0, B-B Male	AE1460-ND	9.09	7.69	7.34	AK673/2-5-R
29	1.5	4	Cable USB A-B Male	AE9931-ND	5.17	4.28	4.02	AU-Y1002A-R
	1.0	4	Cable USB A-B Male	AE10359-ND✔	3.12	2.60	2.40	AK672-1-R
	2.0	4	Cable USB A-B Male	AE9932-ND	4.24	3.51	3.29	AK672-2-R
	2.0	4	Cable USB A-B Male	AE10338-ND✔	4.23	3.51	3.29	AK672-2-BLACK-R
	3.0	4	Cable USB A-B Male	AE10360-ND✔	4.99	4.13	3.87	AK672-3-R
	5.0	4	Cable USB A-B Male	AE1461-ND	7.25	6.14	5.86	AK672-5-R
	1.0	—	Cable USB 2.0, A-B Male	AE1462-ND	3.21	2.67	2.47	AK672/2-1-R
	2.0	—	Cable USB 2.0, A-B Male	AE1493-ND	4.09	3.39	3.18	AK672/2-2-R
	3.0	—	Cable USB 2.0, A-B Male	AE1463-ND	5.73	4.75	4.45	AK672/2-3-R
	5.0	—	Cable USB 2.0, A-B Male	AE9933-ND	6.58	5.57	5.32	AK672/2-5-R
	2.0	4	Cable USB A-B Male, iMac Blue	AE1361-ND	6.57	5.44	5.10	AK672MB-R
	2.0	4	Cable USB A-B Male, iMac Purple	AE1464-ND	6.57	5.44	5.10	AK672MG-R
	2.0	4	Cable USB A-B Male, iMac Green	AE1465-ND	6.57	5.44	5.10	AK672ML-R
	2.0	4	Cable USB A-B Male, iMac Red	AE1466-ND	6.57	5.44	5.10	AK672MS-R
30	0.5	5	Cable USB 2.0, A Male to Micro A Male	AE10416-ND✔	4.25	3.52	3.30	AK67321-0.5-R
	1	5	Cable USB 2.0, A Male to Micro A Male	AE10417-ND✔	4.70	3.89	3.65	AK67321-1-R
	2.0	5	Cable USB 2.0, A Male to Micro A Male	AE10339-ND✔	5.60	4.64	4.35	AK67321-2-R
	3.0	5	Cable USB 2.0, A Male to Micro A Male	AE10340-ND✔	6.92	5.73	5.37	AK67321-3-R
	5.0	5	Cable USB 2.0, A Male to Micro A Male	AE10341-ND✔	8.57	7.25	6.92	AK67321-5-R
31	0.5	5	Cable USB 2.0, A Male to Micro B Male	AE10418-ND✔	4.25	3.52	3.30	AK67421-0.5-R
	1	5	Cable USB 2.0, A Male to Micro B Male	AE10419-ND✔	4.70	3.89	3.65	AK67421-1-R
	2.0	5	Cable USB 2.0, A Male to Micro B Male	AE10342-ND✔	5.60	4.64	4.35	AK67421-2-R
	3.0	5	Cable USB 2.0, A Male to Micro B Male	AE10343-ND✔	6.92	5.73	5.37	AK67421-3-R
	5.0	5	Cable USB 2.0, A Male to Micro B Male	AE10344-ND✔	8.57	7.25	6.92	AK67421-5-R
32	0.5	5	Cable USB 2.0, Micro A Male to Micro A Male	AE10420-ND✔	5.54	4.59	4.30	AK67301-0.5-R
	1	5	Cable USB 2.0, Micro A Male to Micro A Male	AE10421-ND✔	6.40	5.30	4.97	AK67301-1-R
	2.0	5	Cable USB 2.0, Micro A Male to Micro A Male	AE10345-ND✔	6.92	5.73	5.37	AK67301-2-R
	3.0	5	Cable USB 2.0, Micro A Male to Micro A Male	AE10346-ND✔	7.09	6.00	5.73	AK67301-3-R
	5.0	5	Cable USB 2.0, Micro A Male to Micro A Male	AE10347-ND✔	8.47	7.74	7.37	AK67301-5-R
33	0.5	5	Cable USB 2.0, Micro B Male to Micro B Male	AE10422-ND✔	5.73	4.74	4.45	AK67401-0.5-R
	1	5	Cable USB 2.0, Micro B Male to Micro B Male	AE10423-ND✔	6.19	5.13	4.81	AK67401-1-R
	2.0	5	Cable USB 2.0, Micro B Male to Micro B Male	AE10348-ND✔	6.62	5.60	5.35	AK67401-2-R
	3.0	5	Cable USB 2.0, Micro B Male to Micro B Male	AE10349-ND✔	7.21	6.11	5.83	AK67401-3-R
	5.0	5	Cable USB 2.0, Micro B Male to Micro B Male	AE10350-ND✔	8.47	7.74	7.37	AK67401-5-R
34	0.5	5	Cable USB 2.0, Micro A Male to Micro B Male	AE10424-ND✔	5.59	4.63	4.35	AK67501-0.5-R
	1	5	Cable USB 2.0, Micro A Male to Micro B Male	AE10425-ND✔	6.22	5.15	4.83	AK67501-1-R
	2.0	5	Cable USB 2.0, Micro A Male to Micro B Male	AE10351-ND✔	6.99	5.79	5.43	AK67501-2-R
34	3.0	5	Cable USB 2.0, Micro A Male to Micro B Male	AE10352-ND✔	7.15	6.05	5.78	AK67501-3-R
	5.0	5	Cable USB 2.0, Micro A Male to Micro B Male	AE10353-ND✔	8.36	7.64	7.28	AK67501-5-R
35	1.8	4	Cable USB A Male to A Female	AE9934-ND	5.66	4.68	4.39	AK669-18-R
	3.0	4	Cable USB A Male to A Female	AE9935-ND	6.44	5.33	5.00	AK669-30-R
	5.0	4	Cable USB A Male to A Female	AE1468-ND	8.97	7.59	7.25	AK669-50-R
	1.8	4	Cable USB 2.0, A Male to A Female	AE10335-ND✔	6.12	5.07	4.75	AK669/2-18-R
	3.0	4	Cable USB 2.0, A Male to A Female	AE10336-ND✔	6.93	5.74	5.38	AK669/2-30-R
	5.0	4	Cable USB 2.0, A Male to A Female	AE10337-ND✔	8.44	7.71	7.34	AK669/2-50-R
36	2.0	4	Cable USB B to Open End	AE1470-ND	4.73	3.92	3.68	AK673-OE-R
USB Adapters								
37	—	—	USB 1.1 to PS/2 (2)	AE10287-ND	10.79	9.98	9.44	DA-70118
38	—	—	USB 1.1 to Serial Male/DB-9	AE10548-ND✔	15.28	14.39	13.98	DA-70155
	—	—	USB 2.0 to Serial Male/DB-9	AE10409-ND✔	16.86	16.30	15.74	DA-70156
39	—	—	USB 2.0 Repeater 5 Meters	AE10290-ND	15.17	14.67	14.16	DA-70130
USB Adapters — Internal/External on Slot Bracket, Double Shielded								
40	0.25	—	2x USB-A Female to 2 x 5-Pin, 2.54mm Socket Connector	AE10179-ND	6.24	5.16	4.84	AK674-R
USB Adapters — Molded								
41	—	4	USB-A Male to USB-B Female	AE1472-ND	4.82	3.99	3.74	A-USB-3-R
	—	4	USB-A Female to USB-B Female	AE1473-ND	5.61	4.64	4.35	A-USB-1-R
	—	4	USB-A Female to USB-A Female	AE1474-ND	5.61	4.64	4.35	A-USB-4-R
	—	4	USB-A Male to USB-A Male	AE10362-ND✔	5.61	4.64	4.35	A-USB-5-R
	—	4	USB-B Male to USB-B Male	AE10363-ND✔	5.61	4.64	4.35	A-USB-6-R
42	1.83	—	Adapter USB Seria DB9/25 Male	AE1488-ND	20.99	20.30	19.60	DA-70119-R
NEW! Tool Free RJ45 Keystone Jacks NEW!								
43	—	—	Connector Jack RJ45 Tool Free Cat. 6, White	AE10466-ND	3.11	2.58	2.42	DN-93601-U/WH
	—	—	Connector Jack RJ45 Tool Free Cat. 6, Red	AE10467-ND	3.11	2.58	2.42	DN-93601-U/R
	—	—	Connector Jack RJ45 Tool Free Cat. 6, Blue	AE10468-ND	3.11	2.58	2.42	DN-93601-U/BL
	—	—	Connector Jack RJ45 Tool Free Cat. 6, Black	AE10469-ND	3.11	2.58	2.42	DN-93601-U/B
	—	—	Connector Jack RJ45 Tool Free Cat. 6, Yellow	AE10470-ND	3.11	2.58	2.42	DN-93601-U/Y
	—	—	Connector Jack RJ45 Tool Free Cat. 5e, White	AE10471-ND	3.01	2.50	2.32	DN-93501-U/WH
	—	—	Connector Jack RJ45 Tool Free Cat. 5e, Red	AE10472-ND	3.01	2.50	2.32	DN-93501-U/R
	—	—	Connector Jack RJ45 Tool Free Cat. 5e, Blue	AE10473-ND	3.01	2.50	2.32	DN-93501-U/BL
	—	—	Connector Jack RJ45 Tool Free Cat. 5e, Black	AE10474-ND	3.01	2.50	2.32	DN-93501-U/B
	—	—	Connector Jack RJ45 Tool Free Cat. 5e, Yellow	AE10475-ND	3.01	2.50	2.32	DN-93501-U/Y

Fig.	Length Meters	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
(Unshielded) PVC Cable Assembly CAT5(e), RJ45 – Molded							
44	0.5	CAT5e, Patch Cable, Gray	AE10364-ND✔	3.07	2.56	2.37	A-MCUP-80005-R
	1.0	CAT5e, Patch Cable, Gray	AE9936-ND	3.48	2.88	2.70	A-MCUP-80010-R
	2.0	CAT5e, Patch Cable, Gray	AE9937-ND	4.94	4.09	3.84	A-MCUP-80020-R
	3.0	CAT5e, Patch Cable, Gray	AE9938-ND	6.54	5.41	5.08	A-MCUP-80030-R
	5.0	CAT5e, Patch Cable, Gray	AE9939-ND	8.54	7.23	6.90	A-MCUP-80050-R
	10.0	CAT5e, Patch Cable, Gray	AE9940-ND	11.96	11.07	10.47	A-MCUP-80100-R
	0.5	CAT5e, Patch Cable, Red	AE10367-ND✔	3.07	2.56	2.37	A-MCUP-80005/R-R
	1.0	CAT5e, Patch Cable, Red	AE9941-ND	3.48	2.88	2.70	A-MCUP-80010/R-R
	2.0	CAT5e, Patch Cable, Red	AE9942-ND	4.94	4.09	3.84	A-MCUP-80020/R-R
	3.0	CAT5e, Patch Cable, Red	AE9943-ND	6.54	5.41	5.08	A-MCUP-80030/R-R
	5.0	CAT5e, Patch Cable, Red	AE9944-ND	8.54	7.23	6.90	A-MCUP-80050/R-R
	10.0	CAT5e, Patch Cable, Red	AE9945-ND	10.27	9.51	8.99	A-MCUP-80100/R-R
	0.5	CAT5e, Patch Cable, Blue	AE10365-ND✔	3.07	2.56	2.37	A-MCUP-80005/B-R
	1.0	CAT5e, Patch Cable, Blue	AE9946-ND	3.48	2.88	2.70	A-MCUP-80010/B-R
	2.0	CAT5e, Patch Cable, Blue	AE9947-ND	4.94	4.09	3.84	A-MCUP-80020/B-R
	3.0	CAT5e, Patch Cable, Blue	AE9948-ND	6.54	5.41	5.08	A-MCUP-80030/B-R
	5.0	CAT5e, Patch Cable, Blue	AE9949-ND	8.54	7.23	6.90	A-MCUP-80050/B-R
	10.0	CAT5e, Patch Cable, Blue	AE9950-ND	11.96	11.07	10.47	A-MCUP-80100/B-R
	0.5	CAT5e, Patch Cable, Yellow	AE10368-ND✔	3.07	2.56	2.37	A-MCUP-80005/Y-R
	1.0	CAT5e, Patch Cable, Yellow	AE9951-ND	3.48	2.88	2.70	A-MCUP-80010/Y-R
	2.0	CAT5e, Patch Cable, Yellow	AE9952-ND	4.94	4.09	3.84	A-MCUP-80020/Y-R

✔ ***NEW!***

(Continued)

SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies *(Cont.)*

Fig. 35 — USB Extension Cable

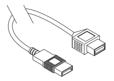

Fig. 36 — USB Cable, B to Open End

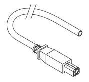

Fig. 37 — USB to PS/2 Adapter

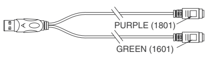

Fig. 38 — USB to Serial Adapter

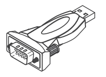

Fig. 39 — USB 2.0 Repeater Cable

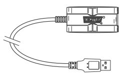

Fig. 40 — USB Adapter on Slot Bracket

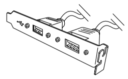

Fig. 41 — USB Adapter

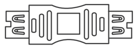

Fig. 42 — USB to Serial Adapter Cable

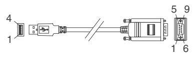

Fig. 43 — Tool Free Keystone Jack *NEW!*

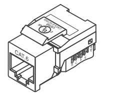

Fig. 44 — CAT5(e) / CAT6 Patch Cable

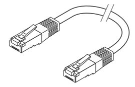

Fig. 45 — CAT5(e) / CAT6 Patch Cable With Boot *NEW!*

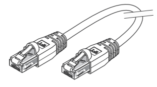

Fig.	Length Meters	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
44	3.0	CAT5e, Patch Cable, Yellow	AE9953-ND	6.54	5.41	5.08	A-MCUP-80030/Y-R
	5.0	CAT5e, Patch Cable, Yellow	AE9954-ND	7.34	6.21	5.93	A-MCUP-80050/Y-R
	10.0	CAT5e, Patch Cable, Yellow	AE9955-ND	11.96	11.07	10.47	A-MCUP-80100/Y-R
	0.5	CAT5e, Patch Cable, Green	AE10366-ND✔	3.07	2.56	2.37	A-MCUP-80005/G-R
	1.0	CAT5e, Patch Cable, Green	AE9956-ND	3.48	2.88	2.70	A-MCUP-80010/G-R
	2.0	CAT5e, Patch Cable, Green	AE9957-ND	4.94	4.09	3.84	A-MCUP-80020/G-R
	3.0	CAT5e, Patch Cable, Green	AE9958-ND	6.54	5.41	5.08	A-MCUP-80030/G-R
	5.0	CAT5e, Patch Cable, Green	AE9959-ND	8.54	7.23	6.90	A-MCUP-80050/G-R
(Unshielded) PVC Cable Assembly CAT6, RJ45 – Molded							
44	2.0	CAT6, Patch Cable, Gray	AE10229-ND	6.88	5.82	5.56	A-MCU60020-R
	5.0	CAT6, Patch Cable, Gray	AE10239-ND	8.80	8.14	7.70	A-MCU60050-R
	10.0	CAT6, Patch Cable, Gray	AE10244-ND	13.64	12.84	12.48	A-MCU60100-R
	2.0	CAT6, Patch Cable, Red	AE10227-ND	5.91	5.00	4.78	A-MCU60020/R-R
	0.5	CAT6, Patch Cable, Blue	AE10215-ND	4.41	3.65	3.42	A-MCU60005/B-R
	1.0	CAT6, Patch Cable, Blue	AE10220-ND	5.37	4.45	4.17	A-MCU60010/B-R
	2.0	CAT6, Patch Cable, Blue	AE10225-ND	6.88	5.82	5.56	A-MCU60020/B-R
	3.0	CAT6, Patch Cable, Blue	AE10230-ND	8.07	7.37	7.02	A-MCU60030/B-R
	5.0	CAT6, Patch Cable, Blue	AE10235-ND	8.80	8.14	7.70	A-MCU60050/B-R
	10.0	CAT6, Patch Cable, Blue	AE10240-ND	15.88	14.95	14.53	A-MCU60100/B-R
	0.5	CAT6, Patch Cable, Yellow	AE10218-ND	4.41	3.65	3.42	A-MCU60005/Y-R
	2.0	CAT6, Patch Cable, Yellow	AE10228-ND	5.91	5.00	4.78	A-MCU60020/Y-R
	0.5	CAT6, Patch Cable, Green	AE10216-ND	4.41	3.65	3.42	A-MCU60005/G-R
	2.0	CAT6, Patch Cable, Green	AE10226-ND	6.88	5.82	5.56	A-MCU60020/G-R
Shielded Version (FTP)							
44	1.0	CAT5e, Patch Cable, Gray	AE9961-ND	4.59	3.81	3.57	A-MCSP-80010-R
	2.0	CAT5e, Patch Cable, Gray	AE9962-ND	5.48	4.54	4.26	A-MCSP-80020-R
	3.0	CAT5e, Patch Cable, Gray	AE9963-ND	6.82	5.64	5.29	A-MCSP-80030-R
	5.0	CAT5e, Patch Cable, Gray	AE9964-ND	8.47	7.17	6.85	A-MCSP-80050-R
	10.0	CAT5e, Patch Cable, Gray	AE9965-ND	12.48	11.54	10.92	A-MCSP-80100-R
	1.0	CAT5e, Patch Cable, Red	AE9966-ND	4.59	3.81	3.57	A-MCSP-80010/R-R
	2.0	CAT5e, Patch Cable, Red	AE9967-ND	5.48	4.54	4.26	A-MCSP-80020/R-R
	3.0	CAT5e, Patch Cable, Red	AE9968-ND	6.82	5.64	5.29	A-MCSP-80030/R-R
	5.0	CAT5e, Patch Cable, Red	AE9969-ND	8.47	7.17	6.85	A-MCSP-80050/R-R
	10.0	CAT5e, Patch Cable, Red	AE9970-ND	12.48	11.54	10.92	A-MCSP-80100/R-R
	1.0	CAT5e, Patch Cable, Blue	AE9971-ND	4.59	3.81	3.57	A-MCSP-80010/B-R
	2.0	CAT5e, Patch Cable, Blue	AE9972-ND	5.48	4.54	4.26	A-MCSP-80020/B-R
	3.0	CAT5e, Patch Cable, Blue	AE9973-ND	6.82	5.64	5.29	A-MCSP-80030/B-R
	5.0	CAT5e, Patch Cable, Blue	AE9974-ND	8.47	7.17	6.85	A-MCSP-80050/B-R
	10.0	CAT5e, Patch Cable, Blue	AE9975-ND	12.48	11.54	10.92	A-MCSP-80100/B-R
	1.0	CAT5e, Patch Cable, Yellow	AE9976-ND	4.59	3.81	3.57	A-MCSP-80010/Y-R
	2.0	CAT5e, Patch Cable, Yellow	AE9977-ND	5.48	4.54	4.26	A-MCSP-80020/Y-R
	3.0	CAT5e, Patch Cable, Yellow	AE9978-ND	6.82	5.64	5.29	A-MCSP-80030/Y-R
	5.0	CAT5e, Patch Cable, Yellow	AE9979-ND	8.47	7.17	6.85	A-MCSP-80050/Y-R
	10.0	CAT5e, Patch Cable, Yellow	AE9980-ND	12.48	11.54	10.92	A-MCSP-80100/Y-R
	1.0	CAT5e, Patch Cable, Green	AE9981-ND	4.59	3.81	3.57	A-MCSP-80010/G-R
	2.0	CAT5e, Patch Cable, Green	AE9982-ND	5.48	4.54	4.26	A-MCSP-80020/G-R
	3.0	CAT5e, Patch Cable, Green	AE9983-ND	6.82	5.64	5.29	A-MCSP-80030/G-R
	5.0	CAT5e, Patch Cable, Green	AE9984-ND	8.47	7.17	6.85	A-MCSP-80050/G-R
	10.0	CAT5e, Patch Cable, Green	AE9985-ND	12.48	11.54	10.92	A-MCSP-80100/G-R
	0.5	CAT6, Patch Cable, Gray	AE10189-ND	5.77	4.78	4.48	A-MCSSP60005-R
	1.0	CAT6, Patch Cable, Gray	AE10194-ND	7.06	5.85	5.48	A-MCSSP60010-R
	3.0	CAT6, Patch Cable, Gray	AE10204-ND	10.78	9.84	9.37	A-MCSSP60030-R
	5.0	CAT6, Patch Cable, Gray	AE10209-ND	13.36	12.36	11.69	A-MCSSP60050-R
	10.0	CAT6, Patch Cable, Gray	AE10214-ND	17.87	17.28	16.68	A-MCSSP60100-R
	0.5	CAT6, Patch Cable, Red	AE10187-ND	5.77	4.78	4.48	A-MCSSP60005/R-R
	1.0	CAT6, Patch Cable, Red	AE10192-ND	7.06	5.85	5.48	A-MCSSP60010/R-R
	2.0	CAT6, Patch Cable, Red	AE10197-ND	8.33	7.61	7.25	A-MCSSP60020/R-R
	5.0	CAT6, Patch Cable, Red	AE10207-ND	11.48	10.62	10.05	A-MCSSP60050/R-R
	10.0	CAT6, Patch Cable, Red	AE10212-ND	17.87	17.28	16.68	A-MCSSP60100/R-R
	0.5	CAT6, Patch Cable, Blue	AE10185-ND	5.77	4.78	4.48	A-MCSSP60005/B-R
	1.0	CAT6, Patch Cable, Blue	AE10190-ND	7.06	5.85	5.48	A-MCSSP60010/B-R
	2.0	CAT6, Patch Cable, Blue	AE10195-ND	8.33	7.61	7.25	A-MCSSP60020/B-R
	3.0	CAT6, Patch Cable, Blue	AE10200-ND	10.78	9.84	9.37	A-MCSSP60030/B-R
	5.0	CAT6, Patch Cable, Blue	AE10205-ND	13.36	12.36	11.69	A-MCSSP60050/B-R
	10.0	CAT6, Patch Cable, Blue	AE10210-ND	17.87	17.28	16.68	A-MCSSP60100/B-R
	0.5	CAT6, Patch Cable, Yellow	AE10188-ND	5.77	4.78	4.48	A-MCSSP60005/Y-R
	1.0	CAT6, Patch Cable, Yellow	AE10193-ND	7.06	5.85	5.48	A-MCSSP60010/Y-R
	2.0	CAT6, Patch Cable, Yellow	AE10198-ND	8.33	7.61	7.25	A-MCSSP60020/Y-R
	10.0	CAT6, Patch Cable, Yellow	AE10213-ND	17.87	17.28	16.68	A-MCSSP60100/Y-R
	0.5	CAT6, Patch Cable, Green	AE10186-ND	5.77	4.78	4.48	A-MCSSP60005/G-R
	1.0	CAT6, Patch Cable, Green	AE10191-ND	6.06	5.02	4.71	A-MCSSP60010/G-R
44	2.0	CAT6, Patch Cable, Green	AE10196-ND	8.33	7.61	7.25	A-MCSSP60020/G-R
	5.0	CAT6, Patch Cable, Green	AE10206-ND	13.36	12.36	11.69	A-MCSSP60050/G-R
	10.0	CAT6, Patch Cable, Green	AE10211-ND	17.87	17.28	16.68	A-MCSSP60100/G-R
NEW! PVC Cable Assembly CAT5(e), RJ45-Molded – With Boot NEW!							
45	1.0	CAT5e, Patch Cable, Black	AE10476-ND	1.65	1.38	1.28	DK-1511-001/BL
	1.0	CAT5e, Patch Cable, Blue	AE10477-ND	1.65	1.38	1.28	DK-1511-001/B
	1.0	CAT5e, Patch Cable, Gray	AE10478-ND	1.65	1.38	1.28	DK-1511-001/G
	1.0	CAT5e, Patch Cable, White	AE10479-ND	1.65	1.38	1.28	DK-1511-001/WH
	3.0	CAT5e, Patch Cable, Black	AE10480-ND	2.40	2.00	1.85	DK-1511-003/BL
	3.0	CAT5e, Patch Cable, Blue	AE10481-ND	2.40	2.00	1.85	DK-1511-003/B
	3.0	CAT5e, Patch Cable, Gray	AE10482-ND	2.40	2.00	1.85	DK-1511-003/G
	3.0	CAT5e, Patch Cable, White	AE10483-ND	2.40	2.00	1.85	DK-1511-003/WH
	5.0	CAT5e, Patch Cable, Black	AE10484-ND	3.12	2.60	2.41	DK-1511-005/BL
	5.0	CAT5e, Patch Cable, Blue	AE10485-ND	3.12	2.60	2.41	DK-1511-005/B
	5.0	CAT5e, Patch Cable, Gray	AE10486-ND	3.12	2.60	2.41	DK-1511-005/G
	5.0	CAT5e, Patch Cable, White	AE10487-ND	3.12	2.60	2.41	DK-1511-005/WH
	7.0	CAT5e, Patch Cable, Black	AE10488-ND	3.44	2.85	2.67	DK-1511-007/BL
	7.0	CAT5e, Patch Cable, Blue	AE10489-ND	3.44	2.85	2.67	DK-1511-007/B
	7.0	CAT5e, Patch Cable, Gray	AE10490-ND	3.44	2.85	2.67	DK-1511-007/G
	7.0	CAT5e, Patch Cable, White	AE10491-ND	3.44	2.85	2.67	DK-1511-007/WH
	10.0	CAT5e, Patch Cable, Black	AE10492-ND	4.39	3.64	3.41	DK-1511-010/BL
	10.0	CAT5e, Patch Cable, Blue	AE10493-ND	4.39	3.64	3.41	DK-1511-010/B
	10.0	CAT5e, Patch Cable, Gray	AE10494-ND	4.39	3.64	3.41	DK-1511-010/G
	10.0	CAT5e, Patch Cable, White	AE10495-ND	4.39	3.64	3.41	DK-1511-010/WH
	15.0	CAT5e, Patch Cable, Black	AE10496-ND	6.12	5.07	4.75	DK-1511-015/BL
	15.0	CAT5e, Patch Cable, Blue	AE10497-ND	6.12	5.07	4.75	DK-1511-015/B
	15.0	CAT5e, Patch Cable, Gray	AE10498-ND	6.12	5.07	4.75	DK-1511-015/G
	15.0	CAT5e, Patch Cable, White	AE10499-ND	6.12	5.07	4.75	DK-1511-015/WH
	20.0	CAT5e, Patch Cable, Black	AE10500-ND	6.96	5.89	5.63	DK-1511-020/BL
	20.0	CAT5e, Patch Cable, Blue	AE10501-ND	6.96	5.89	5.63	DK-1511-020/B
	20.0	CAT5e, Patch Cable, Gray	AE10502-ND	6.96	5.89	5.63	DK-1511-020/G
	20.0	CAT5e, Patch Cable, White	AE10503-ND	6.96	5.89	5.63	DK-1511-020/WH
	25.0	CAT5e, Patch Cable, Black	AE10504-ND	8.47	7.17	6.85	DK-1511-025/BL
	25.0	CAT5e, Patch Cable, Blue	AE10505-ND	8.47	7.17	6.85	DK-1511-025/B
	25.0	CAT5e, Patch Cable, Gray	AE10506-ND	8.47	7.17	6.85	DK-1511-025/G
	25.0	CAT5e, Patch Cable, White	AE10507-ND	8.47	7.17	6.85	DK-1511-025/WH
	50.0	CAT5e, Patch Cable, Black	AE10508-ND	12.34	11.42	10.80	DK-1511-050/BL
	50.0	CAT5e, Patch Cable, Blue	AE10509-ND	12.34	11.42	10.80	DK-1511-050/B
	50.0	CAT5e, Patch Cable, Gray	AE10510-ND	12.34	11.42	10.80	DK-1511-050/G
	50.0	CAT5e, Patch Cable, White	AE10511-ND	12.34	11.42	10.80	DK-1511-050/WH
	100	CAT5e, Patch Cable, Black	AE10512-ND	17.23	16.66	16.09	DK-1511-100/BL
	100	CAT5e, Patch Cable, Blue	AE10513-ND	17.23	16.66	16.09	DK-1511-100/B
	100	CAT5e, Patch Cable, Gray	AE10514-ND	17.23	16.66	16.09	DK-1511-100/G
	100	CAT5e, Patch Cable, White	AE10515-ND	17.23	16.66	16.09	DK-1511-100/WH
NEW! PVC Cable Assembly CAT6, RJ45-Molded – With Boot NEW!							
45	1.0	CAT6, Patch Cable, Black	AE10516-ND	2.06	1.72	1.59	DK-1611-001/BL
	1.0	CAT6, Patch Cable, Blue	AE10517-ND	2.06	1.72	1.59	DK-1611-001/B
	1.0	CAT6, Patch Cable, Gray	AE10518-ND	2.06	1.72	1.59	DK-1611-001/G
	1.0	CAT6, Patch Cable, White	AE10519-ND	2.06	1.72	1.59	DK-1611-001/WH
	3.0	CAT6, Patch Cable, Black	AE10520-ND	2.99	2.49	2.30	DK-1611-003/BL
	3.0	CAT6, Patch Cable, Blue	AE10521-ND	2.99	2.49	2.30	DK-1611-003/B
	3.0	CAT6, Patch Cable, Gray	AE10522-ND	2.99	2.49	2.30	DK-1611-003/G
	3.0	CAT6, Patch Cable, White	AE10523-ND	2.99	2.49	2.30	DK-1611-003/WH
	5.0	CAT6, Patch Cable, Black	AE10524-ND	3.49	2.89	2.71	DK-1611-005/BL
	5.0	CAT6, Patch Cable, Blue	AE10525-ND	3.49	2.89	2.71	DK-1611-005/B
	5.0	CAT6, Patch Cable, Gray	AE10526-ND	3.49	2.89	2.71	DK-1611-005/G
	5.0	CAT6, Patch Cable, White	AE10527-ND	3.49	2.89	2.71	DK-1611-005/WH
	7.0	CAT6, Patch Cable, Black	AE10528-ND	4.34	3.59	3.37	DK-1611-007/BL
	7.0	CAT6, Patch Cable, Blue	AE10529-ND	4.34	3.59	3.37	DK-1611-007/B
	7.0	CAT6, Patch Cable, Gray	AE10530-ND	4.34	3.59	3.37	DK-1611-007/G
	7.0	CAT6, Patch Cable, White	AE10531-ND	4.34	3.59	3.37	DK-1611-007/WH
	10.0	CAT6, Patch Cable, Black	AE10532-ND	5.59	4.63	4.34	DK-1611-010/BL
	10.0	CAT6, Patch Cable, Blue	AE10533-ND	5.59	4.63	4.34	DK-1611-010/B
	10.0	CAT6, Patch Cable, Gray	AE10534-ND	5.59	4.63	4.34	DK-1611-010/G
	10.0	CAT6, Patch Cable, White	AE10535-ND	5.59	4.63	4.34	DK-1611-010/WH
	15.0	CAT6, Patch Cable, Black	AE10536-ND	6.95	5.89	5.62	DK-1611-015/BL
	15.0	CAT6, Patch Cable, Blue	AE10537-ND	6.95	5.89	5.62	DK-1611-015/B
	15.0	CAT6, Patch Cable, Gray	AE10538-ND	6.95	5.89	5.62	DK-1611-015/G
	15.0	CAT6, Patch Cable, White	AE10539-ND	6.95	5.89	5.62	DK-1611-015/WH
	20.0	CAT6, Patch Cable, Black	AE10540-ND	8.83	7.47	7.13	DK-1611-020/BL
	20.0	CAT6, Patch Cable, Blue	AE10541-ND	8.83	7.47	7.13	DK-1611-020/B
	20.0	CAT6, Patch Cable, Gray	AE10542-ND	8.83	7.47	7.13	DK-1611-020/G
	20.0	CAT6, Patch Cable, White	AE10543-ND	8.83	7.47	7.13	DK-1611-020/WH
	25.0	CAT6, Patch Cable, Black	AE10544-ND	9.38	8.57	8.16	DK-1611-025/BL
	25.0	CAT6, Patch Cable, Blue	AE10545-ND	9.38	8.57	8.16	DK-1611-025/B
	25.0	CAT6, Patch Cable, Gray	AE10546-ND	9.38	8.57	8.16	DK-1611-025/G
	25.0	CAT6, Patch Cable, White	AE10547-ND	9.38	8.57	8.16	DK-1611-025/WH

✔ ***NEW!***

(Continued)

SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies *(Cont.)*

Cable Testers

PC Cable Tester, Standalone

All suitable PC cable can be tested with this tester.

- Checks: connection, pin allocation and shielding
- Pin allocation shown by LEDs: transmit (25), receive (36), battery (1), shielding (2), number of wires (4)
- 4 Buttons: Test, auto/manual, speed, on/off
- Automatic and manual test run
- Connectors: D-Sub-9 M/F, D-Sub-15 M/F, D-Sub-15 HD M/F, D-Sub-25 M/F Centronics 36 female, BNC male, RJ45 female, USB A+B female, IEEE 1394 female, SATA Cable
- Power supply by 9V block battery, 9V/150mA external power supply optional
- Dimensions (W x D x H): 250mm x 130mm x 35mm

AE10092-ND PC Cable Tester, Standalone (ACT-PC-SO) ... **$188.86**

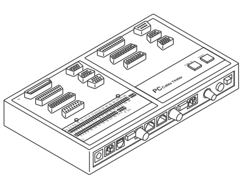

Modular Cable Tester RJ11 / RJ12 / RJ45

- Modular cable tester for cable with RJ11, RJ12 and RJ45 plug
- Fast test function by auto-scanning
- Test: connection, allocation and pairs
- Main device with two RJ45 female; remote unit with one RJ45 female
- Installed cable can be tested with remote unit
- LEDs for status display
- Operation with 9V block battery
- Includes artificial leather bag

AE1204-ND Modular Cable Tester (ACT-MM-R) **$80.39**

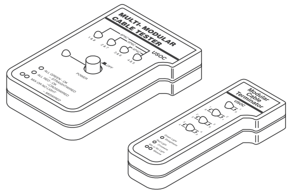

Premium Network Cable Tester RJ45, BNC

- Total of 18 LEDs (for each wire and for shielding) show the allocation and give a fast, exact test result
- Operation with 9V block battery
- Test function for cable with RJ45/11 UTP/STP and BNC plugs, patch panels and modular wall plates
- Includes BNC cable adapter for coax cable test
- Manual or automatic test run
- Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring
- Main device with two RJ45 female, remote unit with one RJ45 female
- Installed cable can be tested with remote unit
- Includes artificial leather bag

AE1205-ND Premium Network Cable Tester (ACT-LAN-R) ... **$74.13**

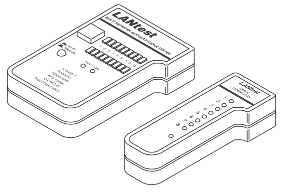

Mini and Micro USB Connectors

Mini USB Connectors: Specifications: • Contact Resistance: 50mΩ maximum (initial) • Dielectric Withstanding Voltage: AC 100Vr.m.s per minute • Insulation Resistance: 100MΩ minimum (initial) • Rated Current: 1.0A • Rated Voltage: AC 30Vr.m.s • Operating Temperature: -20°C ~ 60°C Materials: • Terminal: Copper Alloy • Plating: Gold plating over Nickel on contact area, Tin Copper in tail area over nickel • Insulator: Glass filled Nylon • Shell: Copper Alloy, Tin plating over Nickel

Micro USB Connectors: Specifications: • Contact Resistance: 30mΩ maximum (initial) • Dielectric Withstanding Voltage: DC 500 per minute • Insulation Resistance: 1000MΩ (initial) • Rated Current: 1.8A (Vbus, GND); Others 0.5A • Rated Voltage: AC 30Vr.m.s • Operating Temperature: -30°C ~ 80°C Materials: • Contact: Copper Alloy • Contact Area: Au plating over Pd over Ni • Terminal Area: Au flash plating over Ni • Insulator: Glass filled Nylon resin UL94V-0 • Shell: Stainless Steel/Sn plating over Ni

Dim. in mm

Fig. 1 ***NEW!***

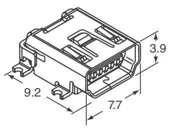

Fig. 2

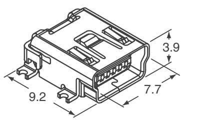

Fig. 3

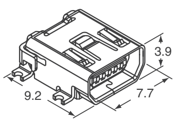

Fig. 4 ***NEW!***

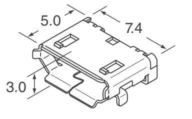

Fig.	Description	No. of Contacts	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	JAE Part No.
					Mini					
1	Type "A" Right Angle	5	670-1809-1-ND ***NEW!***	1.78	1.07	1.02	670-1809-2-ND ***NEW!***	700	624.00	DX1R005HN2E700
2	Type "B" Right Angle	5	670-1190-1-ND	1.29	.69	.57	670-1190-2-ND	700	340.48	DX2R005HN2E700
3	Type "AB" Right Angle	5	670-1523-1-ND	4.40	2.72	2.50	670-1523-2-ND	700	1489.98	DX3R005HN2E700
					NEW! Micro NEW!					
4	Type "Micro B" Right Angle	5	670-2182-1-ND	2.68	1.68	1.34	670-2182-2-ND	1,500	971.50/M	DX4R005J91R1500

NEW! USB Power Supply Output Cables

SPECIFICATIONS:

- USB-A plug: PVS, Black
- DC Plug Overmold: PVC, Black, UL94V0
- Cable: UL2468, 22AWG, 0.16 x 17 strands, a 2 Conductor, Twin Wire, 3.6 (1.8x2) ±0.1mm OD, Black
- Rated Load: 1 A at 5 Vdc

Fig. 1

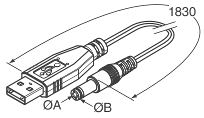

Fig. 2

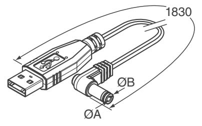

Fig.	Diameter - mm A	B	Description	Digi-Key Part No.	Price Each 1	10	100	500	Tensility Part No.
				Straight					
1	2.1	5.5	Cable USA-A Center Positive	839-1016-ND	5.46	4.74	3.64	3.03	10-00240
	2.1	5.5	Cable USB-A Center Negative	839-1017-ND	5.46	4.74	3.64	3.03	10-00241
	2.5	5.5	Cable USB-A Center Positive	839-1020-ND	5.46	4.74	3.64	3.03	10-00244
	1.35	3.5	Cable USB-A Center Positive	839-1022-ND	5.51	4.78	3.68	3.05	10-00248
	1.35	3.5	Cable USB-A Center Negative	839-1023-ND	5.51	4.78	3.68	3.05	10-00249
	1.7	4.75	Cable USB-A Center Poitive	839-1025-ND	5.51	4.78	3.68	3.05	10-00252
	0.7	2.35	Cable USB-A Center Positive	839-1027-ND	5.67	4.92	3.78	3.14	10-00256
				Right Angle					
2	2.1	5.5	Cable USB-A Center Positive	839-1018-ND	5.46	4.74	3.64	3.03	10-00242
	2.1	5.5	Cable USB-A Center Negative	839-1019-ND	5.46	4.74	3.64	3.03	10-00243
	2.5	5.5	Cable USB-A Center Positive	839-1021-ND	5.46	4.74	3.64	3.03	10-00246
	1.35	3.5	Cable USB-A Center Positive	839-1024-ND	5.51	4.78	3.68	3.05	10-00250
	1.7	4.75	Cable USB-A Center Positive	839-1026-ND	5.51	4.78	3.68	3.05	10-00254
	0.7	2.35	Cable USB-A Center Positive	839-1028-ND	5.67	4.92	3.78	3.14	10-00258

HRS
HIROSE ELECTRIC CO., LTD.

Micro-USB (USB 2.0) Connectors

Hirose Electric Co. Limited has completed the development of the next generation USB Mirco interface. The connectors meet all requirements of the USB 2.0 standard. HRS Electric's established expertise in the development and manufacturing of precision high-density connectors were recognized by approval of our proposal as a standard interface. Cooperative efforts by all members of USB group were led by HRS and culminated in the development of the standard. As compared with Mini-interface, the previous smallest standard, Micro, is smaller and thinner and has better electrical and mechanical performance.

Materials; Plugs: • Insulator: Synthetic Resin Type-A: White, Type-B: Black, UL94V-0 • Metal Shell: Stainless steel, Nickel plated • Contact: Copper alloy • Contact area: Gold plated over nickel under plating • Termination area: Tin plated over nickel under plating • Lock metal: Stainless steel • Operating Temperature: -30°C ~ 85°C

Materials; Receptacles: • Insulator: LCP Type-B: Black, Type-AB: Gray, UL94V-0 • Contact: Copper alloy, Gold plated over nickel under plating • Metal shell: Stainless steel, Tin alloy plated • Operating Temperature: 0°C ~ 50°C

Performance Characteristics; Plugs and Receptacles: • Rated Voltage: 30V AC • Current Capacity: (1) Signal line: 1A pin (No. 1 to 5); (2) 2-line for power: 1.8A pin (No. 1 and 5); 0.5A pin (No. 2 to 4) • Insulation Resistance: 100MΩ minimum at DC 500V • Contact Resistance: 30mΩ maximum at 100mA • Withstanding Voltage: AC 100V for 1 minute • Durability: 10,000 cycles

Dimensions in mm

Fig. 1
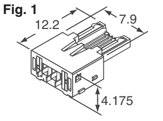

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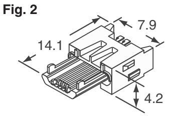

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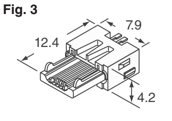

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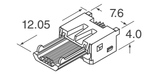

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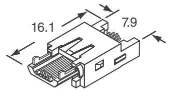

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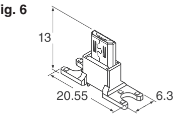

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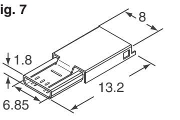

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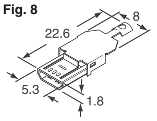

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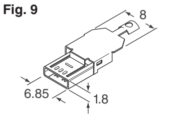

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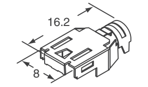

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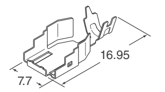

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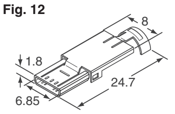

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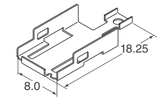

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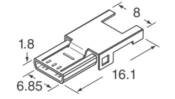

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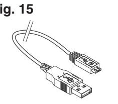

Fig. 16
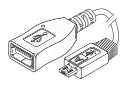

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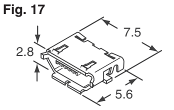

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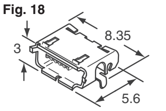

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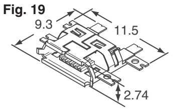

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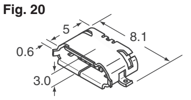

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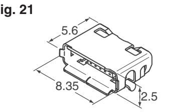

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Hirose Part No.
1	Type 'B' Plug, PCB Assembly Type	H11497-ND	1.29	.94	.77	—	—	—	ZX20-B-5S-UNIT
2	Type 'B' Plug, Hand-solder Assembly Type	H11502-ND	1.63	1.25	1.00	—	—	—	ZX40-B-5S-UNIT(12)
3	Type 'A' Plug, Hand-solder Assembly Type	H11571-ND	1.63	1.25	1.00	—	—	—	ZX40-A-5S-UNIT
4	Micro 'B' Plug, Right Angle PCB	H11673CT-ND†	1.10	.80	.66	H11673TR-ND	1,500	385.70/M	ZX10-B-5S-UNIT(12)
5	Type 'B' Plug, PCB Assembly Type	H11613-ND	1.41	1.02	.84	—	—	—	ZX64-B-5S-UNIT(14)
6	Type 'B' Plug, PCB Assembly Type	H11612-ND	1.76	1.35	1.08	—	—	—	ZX80-B-5SA
7	Shielding Plate for ZX20 Plug	H11496CT-ND†	.46	.22	.17	H11496TR-ND	4,000	88.00/M	ZX20-B-SLDC
8	Shielding Plate Top for ZX40 Plug, Type 'B'	H11500CT-ND†	.52	.25	.19	H11500TR-ND	4,000	100.00/M	ZX40-B-SLDA
9	Shielding Plate Top for ZX40 Plug, Type 'A'	H11572CT-ND†	.52	.25	.19	H11572TR-ND	4,000	100.00/M	ZX40-A-SLDA
9	Shielding Plate Top for ZX10 Plugs, Type Micro 'B'	H11674CT-ND†	.52	.25	.19	H11674TR-ND	4,500	99.90/M	ZX10-B-SLDA
10	Shielding Plate Bottom for ZX40 Plugs	H11501CT-ND†	.46	.22	.17	H11501TR-ND	4,000	88.00/M	ZX40-SLDB
10	Shielding Plate Bottom for ZX40 Plugs	H11573CT-ND†	.46	.22	.17	H11573TR-ND	4,000	88.00/M	ZX40-SLDB(3.3)
11	Shielding Plate Bottom for ZX10 Plugs, Type Micro 'B'	H11675CT-ND†	.34	.17	.13	H11675TR-ND	4,500	66.16/M	ZX10-SLDB(3.3)(01)
12	Shielding Plate for ZX64 Plug	H11498CT-ND†	.40	.20	.15	H11498TR-ND	4,000	77.00/M	ZX64-B-SLDA
13	Shielding Plate for ZX64 Plug	H11608CT-ND†	.41	.20	.15	H11608TR-ND	4,000	79.65/M	ZX64-SLDB
14	Shielding Plate for ZX64 Plug	H11575CT-ND†	.41	.25	.20	H11575TR-ND	4,000	108.00/M	ZX64-B-SLDC
15	Cable Micro 'B' to Standard 'A', 0.5 Meters	H11503-ND	15.67	14.34	12.91	—	—	—	ZX40-B-5S-500-STDA
15	Cable Micro 'B' to Standard 'A', 1.0 Meters	H11489-ND	15.30	14.28	13.26	—	—	—	ZX40-B-5S-1000-STDA
15	Cable Micro 'B' to Standard 'A', 1.0 Meters	H11609-ND	11.18	9.24	7.78	—	—	—	ZX64-B-5S-1000-STDA
15	Cable Micro 'B' to Standard 'A', 1.5 Meters	H11504-ND	16.16	15.08	14.01	—	—	—	ZX40-B-5S-1500-STDA
16	Cable Micro 'A' to Standard 'A', 0.075 Meters	H11576-ND	9.38	7.76	6.53	—	—	—	ZX40-A-5S-75-STDAJ
17	Micro 'AB' Standard Mount SMD, Right Angle	H11635CT-ND†	1.14	.83	.68	H11635TR-ND	3,500	390.00/M	ZX62-AB-5PA(11)
17	Micro 'B' Standard Mount SMD, Through Hole Shell	H11610CT-ND†	1.33	.97	.79	H11610TR-ND	2,000	455.00/M	ZX62D-B-5P8
17	Micro 'B' Standard Mount SMD, Right Angle	H11634CT-ND†	1.06	.77	.63	H11634TR-ND	3,500	364.00/M	ZX62-B-5PA(11)
18	Type 'AB' SMD Right Angle, Through Hole Shell	H11494CT-ND†	1.44	1.05	.86	H11494TR-ND	2,000	494.00/M	ZX62D-AB-5P8
19	Type 'B' MID Mount	H11493CT-ND†	1.67	1.21	.99	—	—	—	ZX62M-B-5P
19	Type 'B' MID Mount	H11680CT-ND† ***NEW!***	1.10	.80	.66	H11680TR-ND ***NEW!***	1,500	385.70/M	ZX62M-B-5P(01)
20	Micro 'B' Reverse Mount SMD	H11574CT-ND†	1.56	1.13	.93	H11574TR-ND	2,000	533.00/M	ZX62R-B-5P
21	Micro 'AB' Reverse Mount SMD, Through Hole Shell	H11611CT-ND†	1.41	1.02	.84	H11611TR-ND	2,000	481.00/M	ZX62RD-AB-5P8

† Cut Tape

USB 2.0 Cable Assemblies and Connectors

Features: • Tested and certified by USB Association approved laboratory the connectors will perform at transmission speeds up to 480Mbps. Thin design of the plug assembly and the overmold section allows use in small spaces. The plug also incorporates a build-in snap-lock feature, providing tactile verification of the full and secure mating of plug and receptacle. **Applications:** • Personal and mobile computer peripheral equipment, data terminals, digital cameras, MP3 players, PDA's, GPS and other devices utilizing standard USB protocols. **Specifications:** • Current Rating: 1A • Voltage Rating: 5VAC • Operating Temperature Range: -30°C ~ 75°C • Contact Resistance: 50mΩ maximum • Insulation Resistance: 100MΩ minimum • Dielectric Withstanding Voltage: No Flashover or insulation break down; 100VAC/one minute. **Materials; Receptacles:** • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper alloy • Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Copper alloy • Finish: Tin alloy plating. **Materials; Plugs:** • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper Alloy • Finish Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Steel • Finish: Tin alloy plating • Over-mold compound: PVC • Finish: Black

Dimensions in mm

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Hirose Part No.
Right Angle Receptacle, SMT Metal Shield Type with Positioning Post								
1	H2959CT-ND	1.18	.86	.70	H2959TR-ND	1,000	412.00	UX60-MB-5ST
Right Angle Receptacle, SMT DIP Metal Shield Type with Positioning Post								
2	H2960CT-ND	1.18	.86	.70	H2960TR-ND	1,000	412.00	UX60-MB-5S8
Right Angle Receptacle, SMT Metal Shield Type without Positioning Post								
1	H2961CT-ND	1.18	.86	.70	H2961TR-ND	1,000	412.00	UX60A-MB-5ST
Plug, Cable Mount Type								
3	H2955-ND	1.25	.91	.75	—	—	—	UX40-MB-5P
	H2958-ND	1.25	.91	.75	—	—	—	UX40A-MB-5P
Mini USB Receptacle, SMT, Reverse Mount								
4	H11586CT-ND	1.48	1.08	.88	H11586TR-ND	900	514.22	UX60RA-MB-5ST
	H11587CT-ND	1.48	1.08	.88	H11587TR-ND	900	514.22	UX60R-MB-5ST
Mini USB Receptacle Standard, SMT								
5	H11588CT-ND†	1.37	.99	.81	H11588TR-ND†	1,000	478.80	UX60SA-MB-5ST
	H11671CT-ND	.95	.69	.57	H11671TR-ND	1,500	332.50/M	UX60SC-MB-5ST(80)
Mini USB Receptacle Standard, Through Hole Shell								
6	H11589CT-ND	1.29	.94	.77	H11589TR-ND	1,000	452.20	UX60SC-MB-5S8
Mini USB Receptacle, Mid Mount								
7	H11672CT-ND	1.28	.93	.76	H11672TR-ND	1,000	446.88	UX60SD-MB-5S55

† With Interface Entry Angle

Fig.	Description	Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
8	USB Mini-B to Mini-B	500	H2956-ND	19.85	18.53	17.20	UX40-MB-5PP-500-1002

Fig. 1
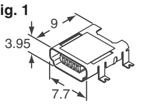

Fig. 2
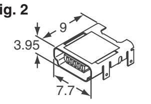

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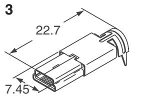

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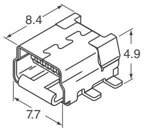

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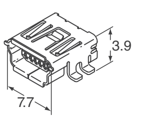

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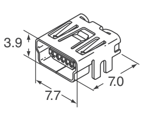

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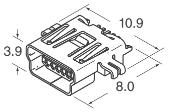

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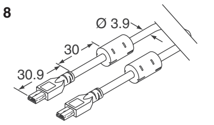

FCI

USB Interconnect System

RoHS COMPLIANT

Dimensions in Inches (mm)

The USB interconnect system is designed to combine all personal computing interface ports into one connector. This system is plug-and-play, hot pluggable and can handle data rates up to 12Mbps. **Specifications:** • Meets USB Standard • Durability: 1,500 Cycles • Withstanding Voltage: 30RMS • Current Rating: 1A Contact • Low Level Contact Resistance: 30mΩ maximum

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Type 'A' Single, Right Angle	609-1045-ND	1.02	.51	.44	87520-0010BLF
2	Type 'A' Single, Up-Right	609-1041-ND	1.14	.60	.51	73725-0110BLF
3	Type 'A' Dual, Right Angle	609-1040-ND	1.77	.99	.86	72309-8034BLF
4	Type 'B' Single, Right Angle	609-1039-ND	1.20	.63	.55	61729-0010BLF
	Type 'B' Single, Right Angle	609-3655-ND	1.60	.87	.76	61729-0011BLF
	Type 'B' Single, Right Angle	609-3656-ND	1.35	.73	.63	61729-1010BLF
	Type 'B' Single, Right Angle	609-3657-ND	1.08	.58	.49	61729-1011BLF
5	USB + Power Receptacle, Right Angle	609-1038-ND	6.04	3.85	3.52	55917-501LF
6	USB + Power Plug, Cable OD= 5.80 mm	609-1042-ND	11.43	8.11	7.46	74233-100LF
	USB + Power Plug, Cable OD= 6.60 mm	609-1044-ND	11.43	8.11	7.46	74233-102LF

Fig. 1

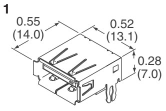

Fig. 2

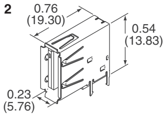

Fig. 3

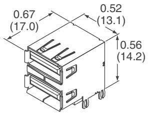

Fig. 4

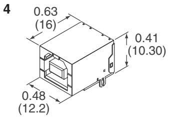

Fig. 5

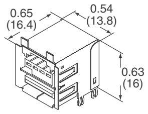

Fig. 6

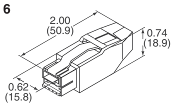

molex®

USB Connectors

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

Fig. 1

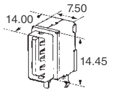

Fig. 2

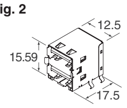

Fig. 3

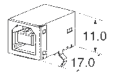

Fig. 4

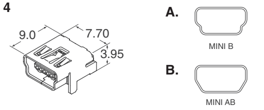

Fig. 5

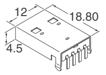

Fig. 6

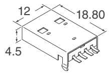

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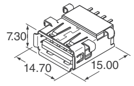

Fig. 8

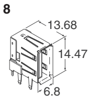

Fig. 9

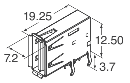

Fig. 10

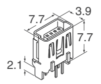

Fig. 11

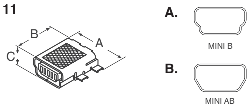

Molex Part No.	Dimensions (mm) A	B	C
54819-0572	9.9	9.0	3.95
67503-1020	9.9	9.0	3.95
51387-0578	7.7	6.7	3.95

Molex Part No.	Dimensions (mm) A	B	C
47153-1002	7.5	9.0	3.80
56579-0576	9.9	9.0	3.95
67803-8020	9.9	9.0	4.00

Fig. 12

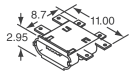

Fig. 13 ***NEW!***

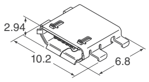

Fig. 14

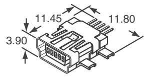

Fig. 15 ***NEW!***

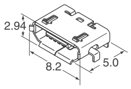

Fig. 16

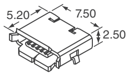

Fig. 17 ***NEW!***

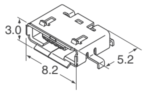

Fig. 18

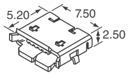

USB Standard Features: • Broad industry support from computer and telecom leaders • 12 Mbit/sec low-cost data transfer rates • Provides PC/telephone integration and digital connectivity • Standard serial port connector for all devices • Supports daisy chaining and up to 127 devices • Windows '95 Operating Driver support
Applications: • Desktop and Notebook PCs • Peripherals • Keyboard, Mouse • Telephony, ISDN, PBX's, Handsets

USB Connectors: Electrical: • Contact Resistance: 30mΩ maximum • Insulation Resistance: 1,000MΩ minimum
USB On-the-Go (OTG) Connectors: • Approximately 1/8th the size of standard USB-B connectors • Fully compliant with current USB 2.0 specifications • Compact and lightweight design meets various portable and mobile equipment needs • Operates at speeds up to 480Mbps • Rugged durability up to 5,000 cycles

Micro-USB Connectors: The interconnect solutions for the Molex Micro-USB system include OTG compatible, Micro-B and Micro AB receptacles.
Features and Benefits: • Stainless steel shell • Multi-snap shield design • Pick and place area
Applications: • Mobile Phone • MP3 Players • Portable Digital Video Players • Digital Still Cameras • Digital Video Cameras

Fig.	Description	Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Molex Part No.
1	Type "A" Upright, Right Angle Receptacle, Gold Flash	0°C ~ 40°C	WM17112-ND	1.66	1.39	1.03	—	—	—	89485-8000
	Type "A" Upright, Right Angle Receptacle, 30 micro-inch, Gold	0°C ~ 40°C	WM17138-ND	2.49	2.00	1.34	—	—	—	89485-8001
2	Type "A" Dual Stacked, Right Angle Receptacle, White	0°C ~ 50°C	WM17130-ND	2.39	2.11	1.41	—	—	—	67298-4090
	Type "A" Dual Stacked, Right Angle Receptacle, Black, 30 micro-inch, Gold	0°C ~ 50°C	WM17150-ND	2.71	2.39	1.60	—	—	—	67298-3091
3	Type "B" Single, Right Angle Receptacle, Black, Gold Flash	0°C ~ 50°C	WM17113-ND	1.69	1.31	1.00	—	—	—	67068-8000
	Type "B" Single, Right Angle Receptacle, Black, 30 micro-inch, Gold	0°C ~ 50°C	WM17123-ND	2.69	2.37	1.59	—	—	—	67068-8001
	Type "B" Single, Right Angle Receptacle, White	0°C ~ 50°C	WM17131-ND	1.39	1.09	.83	—	—	—	67068-9000
4A	Type "Mini-B" OTG, Right Angle Receptacle, PCB Mount	0°C ~ 50°C	WM17115-ND	1.63	1.36	1.01	—	—	—	54819-0519
4B	Type "Mini-AB" OTG, Right Angle Receptacle, 5-Position, PCB Mount	0°C ~ 50°C	WM17121-ND	3.79	3.35	2.23	—	—	—	56579-0519
5	Type "A" Single, Right Angle Plug, PCB Mount	-20°C ~ 85°C	WM17117-ND	2.22	1.96	1.31	—	—	—	48037-0001
6	Type "A" Single, Right Angle Plug, SMD	-20°C ~ 85°C	WM17118-ND	1.47	1.15	.88	—	—	—	48037-1000
7	Type "A" Single, Right Angle Receptacle, SMD, Reverse Type	-20°C ~ 85°C	WM17531CT-ND†	2.11	1.69	1.41	WM17531TR-ND	300	253.50	47504-0001
8	Type "A" Single, Upright Right Angle Receptacle, PCB Mount	-55°C ~ 85°C	WM17136-ND	2.21	1.95	1.30	—	—	—	67329-8000
	Type "A" Single, Upright Right Angle Receptacle, 30 micro-inch, Gold, PCB Mount	-55°C ~ 85°C	WM17151-ND	2.34	2.07	1.38	—	—	—	67329-8001
9	Type "A" Single, Upright Right Angle Receptacle, PCB Mount, Reverse Type	-55°C ~ 85°C	WM17532-ND	2.16	1.91	1.27	—	—	—	48204-0001
10	Type "Mini-B" USB OTG, Vertical Receptacle, 5-Position, PCB Mount	0°C ~ 50°C	WM17120-ND	4.66	3.86	2.89	—	—	—	500075-0517
	Type "Mini-B" USB OTG, Vertical Receptacle, 5-Position, PCB Mount	0°C ~ 50°C	WM2072-ND	7.23	6.39	4.26	—	—	—	500075-1517
11A	Type "Mini-B" USB OTG, Right Angle Receptacle, 5-Position, SMD	0°C ~ 50°C	WM17116CT-ND†	1.55	1.29	.97	WM17116TR-ND	800	662.40	54819-0572
	Type "Mini-B" USB OTG, Right Angle Receptacle, 5-Position, SMD, SMD Shield	0°C ~ 50°C	WM5461CT-ND†	1.46	1.17	.98	WM5461TR-ND	500	291.50	67503-1020
	Type "Mini-B" USB OTG, Right Angle Receptacle, 5-Position, SMD, Through Hole Shield, Short Body	0°C ~ 50°C	WM5462CT-ND†	2.10	1.68	1.41	WM5462TR-ND	1,000	840.00	51387-0578
11B	Type "Mini-AB" USB OTG, Right Angle Receptacle, SMD, with Cover Tape	-40°C ~ 85°C	WM17122CT-ND†	1.92	1.63	1.26	WM17122TR-ND	800	804.00	56579-0576
	Type "Mini-AB" USB OTG, Right Angle Receptacle, SMD, with Cover Tape	0°C ~ 50°C	WM17148CT-ND†	2.33	2.14	1.76	WM17148TR-ND	2,500	1167.00/M	67803-8020
12	Type "Micro-B" USB Receptacle, SMD, Mid Mount	-20°C ~ 85°C	WM17142CT-ND†	1.30	1.08	.81	WM17142TR-ND	1,200	651.05/M	47491-0001
13	Type "MIcro-B" USB Receptacle, SMD, Mid Mount with Through Hole	-20°C ~ 85°C	WM1398CT-ND† ***NEW!***	.82	.68	.51	WM1398TR-ND ***NEW!***	7,500	304.00/M	0476420001
14	Type "Micro-B" USB Receptacle, SMD, Bottom Mount	-20°C ~ 85°C	WM17141CT-ND†	.90	.75	.57	WM17141TR-ND	2,000	411.08/M	48242-0001
15	Type "MIcro-B" USB Right Angle Receptacle, SMD, Bottom Mount with Through Hole	-20°C ~ 85°C	WM1399CT-ND† ***NEW!***	.83	.69	.52	WM1399TR-ND ***NEW!***	8,400	330.00/M	1050170001
16	Type "Micro-AB" USB Receptacle, SMD, Top Mount	-20°C ~ 85°C	WM17144CT-ND†	.88	.81	.67	WM17144TR-ND	1,500	514.00/M	47590-0001
17	Type "Micro-AB" USB Right Angle Receptacle, SMD, Mid Mount Sink Type	-20°C ~ 85°C	WM1397CT-ND† ***NEW!***	.83	.69	.51	WM1397TR-ND ***NEW!***	7,500	308.00/M	0476540001
18	Type "Micro-AB" USB Receptacle, SMD, Bottom Mount	-20°C ~ 85°C	WM17143CT-ND†	.78	.65	.49	WM17143TR-ND	1,500	327.46/M	47589-0001

† Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Firewire 1394 I/O Connectors

Specifications: Headers are offered in high temperature plastic for true SMT processing. Full metal shielding design supports ESD protection. Rugged gold plated leaf contacts withstands up to 1500 cycles.

Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM17302-ND	4.48	3.95	2.64	53462-0629
2	WM17303-ND	4.83	4.27	2.85	53460-0629

Fig. 1 – Right Angle Flat Header

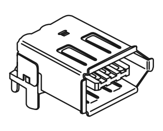

Fig. 2 – Right Angle Upright Header

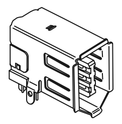

USB Cable Assemblies and Connectors

Fig. 1 and Fig. 2: Features: • Fully-shielded and polarized plugs • Friction grip on over-molded body facilitates easy mating and unmating. **Electrical:** • Voltage: 30V • Current: 1.0A • Contact Resistance: 30mΩ max. • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 1000MΩ min. **Mechanical:** • Mating Force: 35N max. • Withdrawal Force: 10N min. • Durability: 1500 cycles min.
Fig. 3: Features: • Fully compliant with current USB 2.0 specifications. **Electrical:** • Voltage: 30V • Current: 1.0A • Insulation Resistance: 100MΩ min.
Fig. 4: Features: • Contact: Copper (Cu) Alloy • Plating Contact: 0.76µm (30µ") Gold (Au) • Color: White **Electrical:** Current: 1.0A max. • Voltage: 30V max. • Dielectronic Strength: 500VDC • Insulation Resistance: 100MΩ
Fig. 5: Features: • Contact: Copper (Cu) Alloy • Plating Contact: Gold (Au) • Color: Black • Wire Size: 28 AWG **Electrical:** Current: 1.8A, 1A max. • Voltage: 30VAC max. • Impedance: 90Ω

Fig.	Dimension A (mm)	Description	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
1	2,080	USB Type "A-to-Pigtail" Full-Rated – White	WM17104-ND	4.58	3.67	3.06	88728-3400
	2,080	USB Type "A-to-Pigtail" Sub-Channel – White	WM17105-ND	3.22	2.58	2.15	88738-8200
2	820	USB Type "A-to-B" Full-Rated – White	WM17133-ND	4.11	3.29	2.74	88732-9000
	820	USB Type "A-to-B" – Black	WM17533-ND	3.02	2.42	2.02	88732-9002
	2,090	USB Type "A-to-B" Full-Rated – White	WM17103-ND	3.77	3.12	2.93	88732-9200
	2,090	USB Type "A-to-B" – Black	WM17534-ND	6.81	5.45	4.54	88732-9202
	5,010	USB Type "A-to-B" Full-Rated – White	WM17134-ND	11.78	9.43	7.86	88732-9400
3	1,000	USB Type "A to Mini-B" – White	WM17492-ND	4.25	3.41	2.84	88732-8600
	1,000	USB Type "A to Mini-B" – Black	WM17493-ND	6.20	4.96	4.14	88732-8602
	2,000	USB Type "A to Mini-B" – White	WM17132-ND	6.41	5.13	4.28	88732-8900
	2,000	USB Type "A to Mini-B" – Black	WM17137-ND	6.25	5.01	4.17	88732-8902
4	1,000	USB Type "Mini-A to Mini-B" – White	WM17494-ND	4.08	3.27	2.73	88753-8200
	1,800	USB Type "Mini-A to Mini-B" – White	WM17135-ND	6.36	5.09	4.24	88753-8500
5	1,000	USB Type "A to Micro-USB Type B" – Black	WM17145-ND	6.62	5.30	4.42	68784-0001
	1,500	USB Type "A to Micro-USB Type B" – Black	WM17146-ND	7.47	5.98	4.99	68784-0002
	2,000	USB Type "A to Micro-USB Type B" – Black	WM17147-ND	16.01	12.81	10.68	68784-0003

Fig. 1

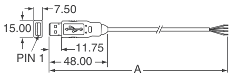

Fig. 2

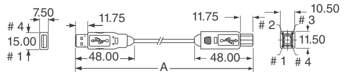

Fig. 3

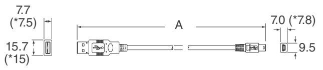

*WM17492-ND, WM17493-ND and WM17137-ND

Fig. 4

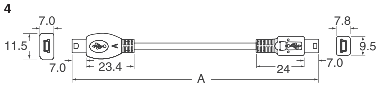

Fig. 5

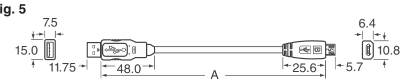

Kits

WM8467-ND (76650-0142) **Sealed USB Industrial Connector and Cable Kit**; (Type A and B Shielded Panel Mount Plug, Receptacle and Cable, IP-67) **$101.88**
WM8468-ND (76650-0143) **Deluxe Audio Data Application Kit**; (Includes HDMI, HDMI to DVI-D, MicroCross DVI-D and DVI-I, DisplayPort, IEEE1394-1395, USB Type A and B, USB OTG (On-the-Go) mini-B, Micro USB-B Product Families) **$46.09**

Industrial Ethernet Plugs and Jacks, Category 5E and USB

Specifications: **Category 5E:** • Contact: Phosphor Bronze (CuSn) • Plating Contact: 1.27µm (50µ") Gold (Au) • Under Plating: Nickel (Ni) • Housing Material: PA Polyamide (Nylon), PBT Polyester, TPE Thermo Plastic Elastomer • Color: Black • Flammability: UL 94V-0 • Durability (mating cycles): 500 cycles minimum • Current: 1.5A maximum • Voltage: 125V maximum • Withstanding Voltage: 1000VAC • Contact Resistance: 20mΩ maximum • Insulation Resistance: 500MΩ minimum **USB:** • Voltage: 30V • Current: 1.0A • Receptacle Housing: PBT, Black • Overmolding: PVC, Black • Contact: Copper Alloy • Plating: Contact Area – 0.75µm (30µ") Gold (Au) • Operating Temperature: 0°C ~ 70°C • Flammability: UL 94V-0 • Performance: USB 2.0 • Industrial Seal Rating: NEMA 6p and IP67

Fig. 1

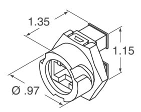

Fig. 2

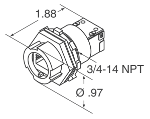

Fig. 3

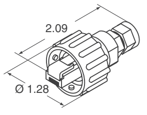

Fig. 4

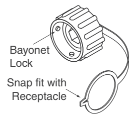

Fig. 5

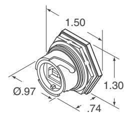

Fig. 6

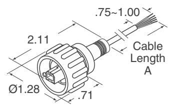

Fig. 7

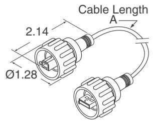

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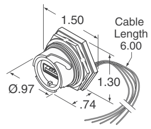

Fig. 9

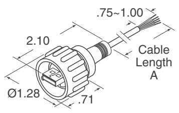

Fig. 10

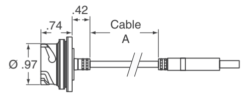

Fig.	Circuits/ Contacts	Cable Length A (Inch)	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	8 / 8	—	Receptacle, Panel Mount	WM17486-ND	30.22	27.20	24.18	84702-0006-P
	8 / 8	—	Receptacle, Panel Mount, Fully Potted	WM17487-ND	35.80	32.22	28.64	84702-0008-P
	8 / 8	—	Receptacle, Panel Mount, PCB	WM17491-ND	8.59	7.73	6.87	84702-0005
2	8 / 8	—	Receptacle, Bulkhead	WM17488-ND	17.39	16.81	15.07	84700-0001
3	8 / 8	—	Plug	WM17489-ND	20.46	18.42	16.37	84700-0002
4	—	—	Universal Dust Cover for Ethernet Receptacle	WM17490-ND	9.30	8.37	7.44	84700-0003
5	4	—	Receptacle, Panel Mount, USB B	WM17514-ND	11.94	10.75	9.56	84730-0001
	4	—	Receptacle, Panel Mount, USB A, PCB	WM17495-ND	11.84	10.66	9.47	84729-0009
6	4	59.06	Plug, USB B, Shielded Pigtail	WM17515-ND	25.83	23.25	20.67	84728-1002
	4	118.11	Plug, USB B, Shielded Pigtail	WM17516-ND	27.74	24.97	22.19	84728-1003
7	4	59.06	Dual Plug, USB A and B, Shielded Cable	WM17517-ND	24.73	22.26	19.79	84732-0002
	4	118.11	Dual Plug, USB A and B, Shielded Cable	WM17518-ND	26.15	23.54	20.92	84732-0004
8	4	—	Receptacle, Panel Mount, USB A, Pigtail	WM17519-ND	12.30	11.07	9.84	84729-0001
9	4	59.06	Plug, USB A, Shielded Pigtail	WM17520-ND	25.83	23.25	20.67	84727-1002
	4	118.11	Plug, USB A, Shielded Pigtail	WM17521-ND	40.56	36.51	32.46	84727-1003
10	4	31.88	USB A Cord Assembly Plug and Receptacle	WM17496-ND	13.74	12.37	11.00	84729-0004
	4	81.89	USB A Cord Assembly Plug and Receptacle	WM17497-ND	16.32	14.70	13.06	84729-0006
Crimp Tool for Ethernet Plug, 8 – 8				WM18998-ND	27.00	—	—	64016-0044

Kits:

WM8472-ND (76650-0149) **Sealed USB and RJ-45 Industrial Connector and Cable Kit**; (Sealed Bayonet-Style Plug, Receptacle and Cable)........ **$91.32**
WM8495-ND (76650-0174) **Sealed RJ-45 Industrial Connector Kit**; (In-Line, PCB and Panel Mount Receptacle, Plug, Receptacle and Dust Cover)........ **$111.96**

molex® HS AutoLink Interconnect System (USCAR USB)

HSAutoLink (alternatively referenced as USCAR USB) is the emerging high-speed data bus for vehicles. The data bus encompasses technologies used in other markets such as Universal Serial Bus (USB 2.0), Low Voltage Differential Signaling (LVDS), IEEE1394b (Firewire™), FlexRay, eMOST and Ethernet. HSAutoLink connectors and cables will bring USB and other technologies into the information and entertainment systems in vehicles.

Fig. 1

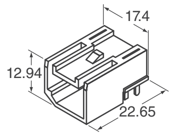

Fig. 2

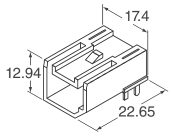

Fig. 3

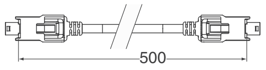

Fig.	Description	Polarization	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	Header USCAR Type USB A, Right Angle, Black	A	WM17535-ND	3.18	2.87	2.55	49616-0711
2	Header USCAR Type USB B, Right Angle, Gray	B	WM17536-ND	3.18	2.87	2.55	49616-0715
3	Cable USCAR Type USB B, Black, 500mm	B	WM17537-ND	12.37	11.13	9.90	111014-5000
	Cable USCAR Type USB B, Gray, 500mm	B	WM17538-ND	12.37	11.13	9.90	111014-5001

Tyco Electronics AMP USB Connectors

Authorized Distributor

Features: **Fig. 1, Fig. 2 and Fig. 4:** • Shell and Contacts: Copper Alloy • Housing: UL 94V-0 rated, thermoplastic • Contacts: 0.076 µm minimum Gold over 0.76 µm minimum Palladium-Nickel on mating area **Fig. 3:** • Housing: High temperature thermoplastic UL 94V-0 • Contacts: Phosphor Bronze, 30 µm minimum Gold plated in contact area • Shell: Phosphor Bronze **Fig. 5:** • Contact Pin: Copper alloy • Contact Plating: Selectively gold plated over Ni-Pd over nickel • Shell: Stainless steel, tin over nickel plated

Fig. 1

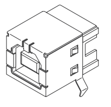

Fig. 2

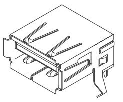

Fig. 3

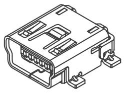

Fig. 4

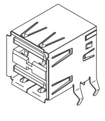

Fig. 5

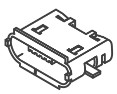

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel† Qty.	Tape and Reel† Pricing	AMP Part No.
1	USB Receptacle Type B, Right Angle	Black	A31725-ND	1.71	1.55	1.10	—	—	292304-1
	USB Receptacle Type B, Right Angle	Natural	A98573-ND	2.11	1.92	1.36	—	—	292304-2
2	USB Receptacle Type A, Right Angle	Black	A31726-ND	1.26	1.15	.82	—	—	292303-1
3	Mini USB Receptacle Type B, Right Angle SMD	Gold	A31727CT-ND‡	1.88	—	1.13	3,500	645.41/M	1734035-2
4	Receptacle, Type A, Right Angle, 4 over 4 Position	Black	A31728-ND	3.20	2.90	2.06	—	—	5787617-1
5	Micro USB Receptacle Type AB, Right Angle, SMD	Gray	A97799CT-ND‡	.82	.69	.55	1,000	411.47	1981584-1
	Micro USB Receptacle Type B, Right Angle, SMD	Black	A97800CT-ND‡	.82	.69	.55	1,000	410.99	1981568-1

‡ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

EDAC INC USB 2.0, USB 3.0 and Firewire Connectors

USB 2.0 and Firewire Connectors: **EDAC Series 690 USB (Universal Serial Bus) and Series 693 (IEE E 1394) connectors** are industry-standard data transfer devices used to interconnect computers to peripheral devices such as scanners and printers. A wide variety of unique right angle vertical that minimizes board space. USB products are compatible with asynchronous and isochronous data transfer methods up to 1.2 Mbps and utilize plug and play technology. EDAC manufactures both USB and IEEE 1394 connectors in through-hole or SMT board styles as well as molded cable assemblies for USB A, B, mini-USB and IEEE variations.

Specifications: • USB 1.1 or USB 2.0 available • Minimum Mating Cycles: 1500 per EIA 364-09 • Insulator Housing: UL 94V-0 thermoplastic • Contact Material: P Bronze (USB), Copper Alloy (1394) • Contact Plating: Gold Flash or Gold Plate over nickel • Contact Resistance: 30mΩ maximum • Insulation Resistance: 100MΩ minimum • Current Rating: 1A maximum under 30°C • Voltage Rating: 30VAC rms maximum • DW Voltage: 750VAC @ 0 at sea level (USB), DC500 (1394) • Shield Housing: Copper alloy • Mate/Unmate: 35/10 Newtons per EIA 364-13 • Temperature Range: -55°C ~ 85°C

USB 3.0 Connectors: **EDAC Series 690 USB connectors with USB 3.0 compatibility**. Series 690 USB 3.0 SuperSpeed connectors from EDAC, Inc. are fully compliant with the USB 2.0 and 3.0 specifications, providing a significant leap forward in transfer speeds (5 Gbps signaling rate) and a 10x performance increase over hi-speed USB capabilities while maintaining backwards compatibility with USB 2.0 devices. The USB 3.0 specification will accommodate next generation peripherals that require more power and improved interaction between devices and the host computer by providing more power when needed and less power when not needed.

Features: • USB Type A and B right angle receptacle • Metal shielding for EMI, RFI, and ESD protection • Super speed interface up to 5 Gbps data rate • Backward compatible with USB 2.0 • 230°C for 30 sec., 260°C for 10 sec. for SMT process • Friction lock grounding fingers • 94V-0 • High temperature material • USB 2.0 and 3.0 compliant • Through hole standard type

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	EDAC Part No.
USB 2.0 Connectors						
30µ" Gold						
1	Type "A" Single, Horizontal Right Angle	151-1080-ND	1.24	1.10	.88	690-004-621-013
2	Type "B" Single, Horizontal Right Angle	151-1081-ND	1.02	.91	.73	690-004-621-023
3	Type "A" Single, Vertical Straight	151-1082-ND	1.24	1.10	.88	690-004-660-013
4	Type "B" Single, Vertical Straight	151-1083-ND	1.30	1.16	.93	690-004-660-023
5	Type "A" Single, Vertical Right Angle	151-1084-ND	1.33	1.19	.95	690-004-661-013
6	Type "A" Dual Stacked, Horizontal Right Angle	151-1085-ND	2.02	1.79	1.43	690-008-621-013
Gold Flash						
1	Type "A" Single, Horizontal Right Angle	151-1123-ND	.78	.69	.55	690-004-221-013
2	Type "B" Single, Horizontal Right Angle	151-1121-ND	.93	.83	.66	690-004-221-023
3	Type "A" Single, Vertical Straight	151-1114-ND	.81	.72	.58	690-004-260-013
5	Type "A" Single, Vertical Right Angle	151-1116-ND	1.24	1.10	.88	690-004-261-013
6	Type "A" Dual Stacked, Horizontal Right Angle	151-1122-ND	1.15	1.02	.82	690-008-221-013
USB Cable Assembly						
9	USB Type 'A'/M to USB Type 'B'/M	151-1079-ND	4.99	4.43	3.55	628-000-943
Firewire Connectors						
7	IEEE 1394A Single, Horizontal Right Angle	151-1086-ND	.59	—	—	693-006-620-003
8	IEEE 1394A Single, Vertical Right Angle	151-1087-ND	1.52	1.35	1.08	693-006-621-003
NEW! USB 3.0 Connectors — 90° Dip NEW!						
15µ" Gold						
10	Type "B" Horizontal Right Angle	151-1127-1-ND†	4.34	3.85	—	690-009-521-900
	Type "B" Horizontal Right Angle	151-1127-2-ND‡	616.00/200			690-009-521-900
11	Type "A" Horizontal Right Angle	151-1128-1-ND†	2.71	2.41	—	690-009-521-013
	Type "A" Horizontal Right Angle	151-1128-2-ND‡	672.21/350			690-009-521-013

† Cut Tape ‡ Tape and Reel

Dimensions in mm

Fig. 1

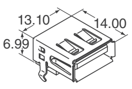

Fig. 2

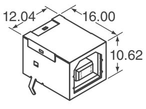

Fig. 3

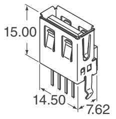

Fig. 4

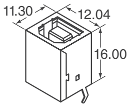

Fig. 5

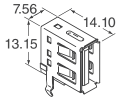

Fig. 6

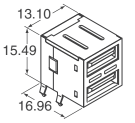

Fig. 7

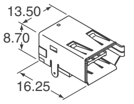

Fig. 8

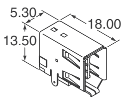

Fig. 9

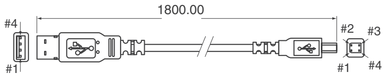

Fig. 10 ***NEW!***

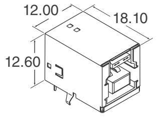

Fig. 11 ***NEW!***

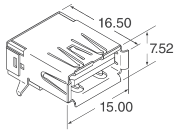

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Richco®

NEW! Connector Plugs (Dust Covers)

Developed for industry standard connectors, Richco now offers a line of plugs to protect internal components from dust and debris. Available for the RJ45/RJ11 and USB connectors, no stress is applied upon entry, and the plug's sleek black material blends well with any aesthetic. Additionally, features such as the release tab on the RJ45/RJ11, and flange on the CP-USB-A, allows for operation in confined spaces and added dust protection, respectively. With Richco's new line, a clean, well-protected connector-interior is just a plug away.

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	25	Richco Part No.
1	Dust Cover for RJ11 Connector Plug	10.5	RP779-ND	.39	3.64	8.39	CP-RJ11
	Dust Cover for RJ45 Connector Plug	12.5	RP780-ND	.31	2.90	6.70	CP-RJ45
2	Dust Cover for USB-A Connector Plug	—	RP781-ND	.32	2.93	6.77	CP-USB-A
3	Dust Cover for USB-B Connector Plug	—	RP782-ND	.33	3.06	7.07	CP-USB-B

Fig. 1

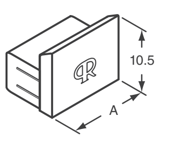

Fig. 2

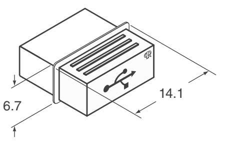

Fig. 3

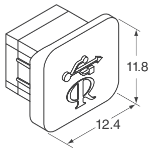

Qualtek
Electronics Corporation

USB Cable Assemblies

Fig. 1

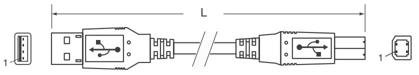

Fig. 2

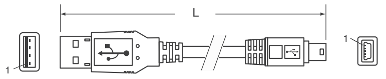

Fig. 3

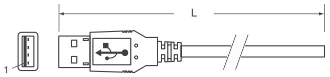

Features: • Transfer rates up to 480 Mbps depending on USB version • Make plug and play connections for such devices as keyboards, mice, modems, printers and other USB peripherals • Connects a USB peripheral to a USB Hub or USB port on PC/MAC • Compatible with USB specifications 1.0, 1.1 and 2.0

Fig.	Description	Wire	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	25	Qualtek Part No.
					Nickel — Black					
1	A-B	28/28	3	9	11	Q361-ND	2.28	2.09	1.75	3021001-03
2	A-mini B	28/28	3	8.3	10.3	Q362-ND	2.98	2.74	2.29	3021003-03
3	A-Blunt	28/28	3	8.1	10.1	Q363-ND	1.67	1.53	1.28	3021005-03
1	A-B	26/28	6	5.6	7.1	Q364-ND	3.38	3.10	2.60	3021007-06
2	A-mini B	26/28	6	5.3	6.8	Q365-ND	4.00	3.66	3.06	3021009-06
3	A-Blunt	26/28	6	5.2	6.7	Q366-ND	2.82	2.58	2.16	3021011-06
1	A-B	26/28	10	8.3	9.7	Q367-ND	4.61	4.22	3.53	3021013-010
2	A-mini B	26/28	10	8	9.4	Q368-ND	5.17	4.73	3.96	3021015-010
3	A-Blunt	26/28	10	7.9	9.3	Q369-ND	4.09	3.75	3.14	3021017-010
					Gold — Black					
1	A-B	24/26	16	6.2	7.3	Q370-ND	8.25	7.55	6.32	3021019-16
2	A-mini B	24/26	16	6	7.1	Q371-ND	8.81	8.07	6.75	3021021-16
3	A-Blunt	24/26	16	5.9	7	Q372-ND	7.71	7.06	5.91	3021023-16
1	A-B	20/26	16	10	11.2	Q373-ND	8.25	7.55	6.32	3021025-16
2	A-mini B	20/26	16	9	10.2	Q374-ND	8.81	8.07	6.75	3021027-16
3	A-Blunt	20/26	16	8.8	10	Q375-ND	7.71	7.06	5.91	3021029-16

DVI Cable Assemblies

Features:
• Tri-shielded with dual Mylar® foil and braid shield reduces interference • Supports hot plugging of DVI display devices • PC and MAC compatible • Compatible with flat panel displays, digital CRT displays • Meets DVI DDWG Standard

Fig. 1

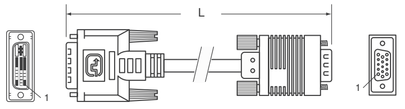

Fig. 2

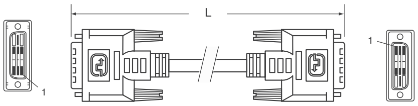

Fig.	Description	Wire (AWG)	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	25	Qualtek Part No.
					Nickel — Black					
1	12+5 - HD15P	28	3	6.3	7.5	Q376-ND	10.20	9.34	7.82	1321001-03
2	18+1 - 18+1	28	3	5.8	7	Q377-ND	12.06	11.03	9.24	1321003-03
2	24+1 - 24+1	28	3	7.3	8.5	Q379-ND	13.84	12.67	10.61	1321007-03
2	24+5 - 24+5	28	3	8.1	9.3	Q380-ND	16.43	15.03	12.59	1321009-03
1	12+5 - HD15P	28	6	9.2	10.4	Q381-ND	14.15	12.95	10.84	1321011-06
2	18+1 - 18+1	28	6	8.2	9.4	Q382-ND	15.60	14.28	11.96	1321013-06
2	18+5 - 18+5	28	6	11.5	12.7	Q383-ND	21.71	19.87	16.64	1321015-06
2	24+1 - 24+1	28	6	11.3	12.5	Q384-ND	18.17	16.62	13.92	1321017-06
2	24+5 - 24+5	28	6	13.3	14.6	Q385-ND	22.80	20.86	17.46	1321019-06
2	18+1 - 18+1	28	10	5.7	6.7	Q387-ND	20.40	18.67	15.63	1321023-10
2	24+1 - 24+1	28	10	8.4	9.4	Q389-ND	23.97	21.93	18.36	1321027-10
					Gold — Black					
2	18+1 - 18+1	26	16	8.2	9.3	Q392-ND	33.35	30.51	25.55	1321033-16
2	24+1 - 24+1	26	16	10.1	11.2	Q394-ND	37.15	34.00	28.46	1321037-16
2	24+5 - 24+5	26	16	12.2	13.4	Q395-ND	51.75	47.35	39.64	1321039-16

HDMI Cable Assemblies

Fig. 1

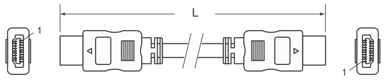

Fig. 2

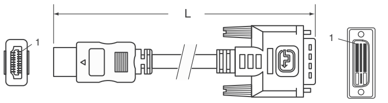

Features: • Broadcast quality digital video, digital audio and inter component control signals all in one compact, high performance connection • Three layers of shielding: two 80% + OFC copper braids and one 100% over lapped Mylar® foil provide complete immunity to environmental EMI and RFI • Nitrogen-injected dielectric and meticulous construction make this interconnect the perfect choice for the most demanding home cinema installations

Fig.	Description	Wire (AWG)	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	25	Qualtek Part No.
					Nickel — Black					
1	Type A - Type A	28	3	7.5	8.7	Q396-ND	15.11	13.83	11.58	1721001-03
1	Type A - Type A	28	6	6.1	7.2	Q398-ND	19.15	17.53	14.67	1721005-06
2	Type A - DVI(18+1)	28	6	7	8.1	Q399-ND	19.15	17.53	14.67	1721007-06
1	Type A - Type A	28	10	9.4	10.6	Q400-ND	24.58	22.49	18.83	1721009-10
1	Type A - Type A	26	16	7.3	8.3	Q402-ND	41.34	37.82	31.67	1721013-16
1	Type A - Type A	26	30	10.2	11.3	Q404-ND	74.07	67.77	56.74	1721017-30

Tyco Electronics
Authorized Distributor

AMP .050" (1.27mm) Flat Flex Cable Assemblies

.050 (1.27mm) Flat Flex Cable Material: • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 1.5 amperes (30AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • Dielectric Strength: 2500V/MIL

Solder Tab to Solder Tab

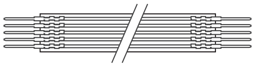

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9AAT-0402E-ND	.68	5.50	40.53
	3 (76.20)	A9AAT-0403E-ND	.82	6.64	48.93
	4 (101.60)	A9AAT-0404E-ND	.96	7.78	57.33
	5 (127.00)	A9AAT-0405E-ND	1.10	8.92	65.73
	6 (152.40)	A9AAT-0406E-ND	1.24	10.06	74.13
	8 (203.20)	A9AAT-0408E-ND	1.52	12.34	90.93
5	2 (50.80)	A9AAT-0502E-ND	.78	6.36	46.83
	3 (76.20)	A9AAT-0503E-ND	.92	7.52	55.44
	4 (101.60)	A9AAT-0504E-ND	1.07	8.69	64.05
	5 (127.00)	A9AAT-0505E-ND	1.21	9.86	72.66
	6 (152.40)	A9AAT-0506E-ND	1.35	11.03	81.27
	8 (203.20)	A9AAT-0508E-ND	1.64	13.37	98.49
6	2 (50.80)	A9AAT-0602E-ND	.89	7.21	53.13
	3 (76.20)	A9AAT-0603E-ND	1.03	8.41	61.95
	4 (101.60)	A9AAT-0604E-ND	1.18	9.60	70.77
	5 (127.00)	A9AAT-0605E-ND	1.33	10.80	79.59
	6 (152.40)	A9AAT-0606E-ND	1.47	12.00	88.41
	8 (203.20)	A9AAT-0608E-ND	1.77	14.39	106.05
7	2 (50.80)	A9AAT-0702E-ND	.99	8.09	59.64
	3 (76.20)	A9AAT-0703E-ND	1.14	9.32	68.67
	4 (101.60)	A9AAT-0704E-ND	1.30	10.55	77.70
	5 (127.00)	A9AAT-0705E-ND	1.45	11.77	86.73
	6 (152.40)	A9AAT-0706E-ND	1.60	13.00	95.76
	8 (203.20)	A9AAT-0708E-ND	1.90	15.45	113.82
8	2 (50.80)	A9AAT-0802E-ND	1.10	8.95	65.94
	3 (76.20)	A9AAT-0803E-ND	1.25	10.20	75.18
	4 (101.60)	A9AAT-0804E-ND	1.41	11.46	84.42
	5 (127.00)	A9AAT-0805E-ND	1.56	12.71	93.66
	6 (152.40)	A9AAT-0806E-ND	1.72	13.97	102.90
	8 (203.20)	A9AAT-0808E-ND	2.02	16.47	121.38
10	2 (50.80)	A9AAT-1002E-ND	1.31	10.66	78.54
	3 (76.20)	A9AAT-1003E-ND	1.47	11.97	88.20
	4 (101.60)	A9AAT-1004E-ND	1.63	13.28	97.86
	5 (127.00)	A9AAT-1005E-ND	1.79	14.59	107.52
	6 (152.40)	A9AAT-1006E-ND	1.95	15.90	117.18
	8 (203.20)	A9AAT-1008E-ND	2.28	18.53	136.50
12	2 (50.80)	A9AAT-1202E-ND	1.53	12.45	91.77
	3 (76.20)	A9AAT-1203E-ND	1.70	13.85	102.06
	4 (101.60)	A9AAT-1204E-ND	1.87	15.25	112.35
	5 (127.00)	A9AAT-1205E-ND	2.04	16.64	122.64
	6 (152.40)	A9AAT-1206E-ND	2.22	18.04	132.93
	8 (203.20)	A9AAT-1208E-ND	2.56	20.83	153.51
17	2 (50.80)	A9AAT-1702E-ND	2.09	17.04	125.58
	3 (76.20)	A9AAT-1703E-ND	2.30	18.72	137.97
	4 (101.60)	A9AAT-1704E-ND	2.51	20.41	150.36
	5 (127.00)	A9AAT-1705E-ND	2.71	22.09	162.75
	6 (152.40)	A9AAT-1706E-ND	2.92	23.77	175.14
	8 (203.20)	A9AAT-1708E-ND	3.33	27.13	199.92
20	2 (50.80)	A9AAT-2002E-ND	2.45	19.95	147.00
	3 (76.20)	A9AAT-2003E-ND	2.69	21.89	161.28
	4 (101.60)	A9AAT-2004E-ND	2.93	23.83	175.56
	5 (127.00)	A9AAT-2005E-ND	3.16	25.76	189.84
	6 (152.40)	A9AAT-2006E-ND	3.40	27.70	204.12
	8 (203.20)	A9AAT-2008E-ND	3.88	31.58	232.68
22	2 (50.80)	A9AAT-2202E-ND	2.69	21.92	161.49
	3 (76.20)	A9AAT-2203E-ND	2.95	24.03	177.03
	4 (101.60)	A9AAT-2204E-ND	3.21	26.13	192.57
	5 (127.00)	A9AAT-2205E-ND	3.47	28.24	208.11
	6 (152.40)	A9AAT-2206E-ND	3.73	30.35	223.65
	8 (203.20)	A9AAT-2208E-ND	4.25	34.57	254.73
25	2 (50.80)	A9AAT-2502E-ND	3.07	25.02	184.38
	3 (76.20)	A9AAT-2503E-ND	3.37	27.47	202.44
	4 (101.60)	A9AAT-2504E-ND	3.68	29.93	220.50
	5 (127.00)	A9AAT-2505E-ND	3.98	32.38	238.56
	6 (152.40)	A9AAT-2506E-ND	4.28	34.83	256.62
	8 (203.20)	A9AAT-2508E-ND	4.88	39.73	292.74

Receptacle Housing to Solder Tab

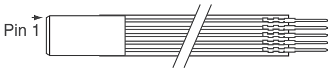

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9BAA-0402E-ND	2.79	22.69	167.16
	3 (76.20)	A9BAA-0403E-ND	2.93	23.83	175.56
	4 (101.60)	A9BAA-0404E-ND	3.07	24.97	183.96
	5 (127.00)	A9BAA-0405E-ND	3.21	26.11	192.36
	6 (152.40)	A9BAA-0406E-ND	3.35	27.25	200.76
	8 (203.20)	A9BAA-0408E-ND	3.63	29.53	217.56
5	2 (50.80)	A9BAA-0502E-ND	3.22	26.19	192.99
	3 (76.20)	A9BAA-0503E-ND	3.36	27.36	201.60
	4 (101.60)	A9BAA-0504E-ND	3.50	28.53	210.21
	5 (127.00)	A9BAA-0505E-ND	3.65	29.70	218.82
	6 (152.40)	A9BAA-0506E-ND	3.79	30.87	227.43
	8 (203.20)	A9BAA-0508E-ND	4.08	33.20	244.65
6	2 (50.80)	A9BAA-0602E-ND	3.25	26.48	195.09
	3 (76.20)	A9BAA-0603E-ND	3.40	27.67	203.91
	4 (101.60)	A9BAA-0604E-ND	3.55	28.87	212.73
	5 (127.00)	A9BAA-0605E-ND	3.69	30.07	221.55
	6 (152.40)	A9BAA-0606E-ND	3.84	31.26	230.37
	8 (203.20)	A9BAA-0608E-ND	4.13	33.66	248.01
7	2 (50.80)	A9BAA-0702E-ND	3.36	27.33	201.39
	3 (76.20)	A9BAA-0703E-ND	3.51	28.56	210.42
	4 (101.60)	A9BAA-0704E-ND	3.66	29.78	219.45
	5 (127.00)	A9BAA-0705E-ND	3.81	31.01	228.48
	6 (152.40)	A9BAA-0706E-ND	3.96	32.23	237.51
	8 (203.20)	A9BAA-0708E-ND	4.26	34.68	255.57
8	2 (50.80)	A9BAA-0802E-ND	4.62	37.65	277.41
	3 (76.20)	A9BAA-0803E-ND	4.78	38.90	286.65
	4 (101.60)	A9BAA-0804E-ND	4.93	40.16	295.89
	5 (127.00)	A9BAA-0805E-ND	5.09	41.41	305.13
	6 (152.40)	A9BAA-0806E-ND	5.24	42.66	314.37
	8 (203.20)	A9BAA-0808E-ND	5.55	45.17	332.85
10	2 (50.80)	A9BAA-1002E-ND	4.35	35.43	261.03
	3 (76.20)	A9BAA-1003E-ND	4.51	36.74	270.69
	4 (101.60)	A9BAA-1004E-ND	4.67	38.05	280.35
	5 (127.00)	A9BAA-1005E-ND	4.83	39.36	290.01
	6 (152.40)	A9BAA-1006E-ND	4.99	40.67	299.67
	8 (203.20)	A9BAA-1008E-ND	5.32	43.29	318.99
17	2 (50.80)	A9BAA-1702E-ND	7.15	58.20	428.82
	3 (76.20)	A9BAA-1703E-ND	7.35	59.88	441.21
	4 (101.60)	A9BAA-1704E-ND	7.56	61.56	453.60
	5 (127.00)	A9BAA-1705E-ND	7.77	63.24	465.99
	6 (152.40)	A9BAA-1706E-ND	7.97	64.92	478.38
	8 (203.20)	A9BAA-1708E-ND	8.39	68.29	503.16
20	2 (50.80)	A9BAA-2002E-ND	7.91	64.44	474.81
	3 (76.20)	A9BAA-2003E-ND	8.15	66.38	489.09
	4 (101.60)	A9BAA-2004E-ND	8.39	68.31	503.37
	5 (127.00)	A9BAA-2005E-ND	8.63	70.25	517.65
	6 (152.40)	A9BAA-2006E-ND	8.87	72.19	531.93
	8 (203.20)	A9BAA-2008E-ND	9.34	76.07	560.49
25	2 (50.80)	A9BAA-2502E-ND	9.84	80.09	590.10
	3 (76.20)	A9BAA-2503E-ND	10.14	82.54	608.16
	4 (101.60)	A9BAA-2504E-ND	10.44	84.99	626.22
	5 (127.00)	A9BAA-2505E-ND	10.74	87.44	644.28
	6 (152.40)	A9BAA-2506E-ND	11.04	89.89	662.34
	8 (203.20)	A9BAA-2508E-ND	11.64	94.79	698.46

Receptacle Housing with Latch to Solder Tab

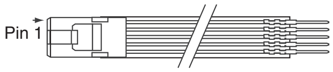

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Cont.	Length Inch (mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9CAA-0402E-ND	2.34	19.04	140.28
	3 (76.20)	A9CAA-0403E-ND	2.48	20.18	148.68
	4 (101.60)	A9CAA-0404E-ND	2.62	21.32	157.08
	5 (127.00)	A9CAA-0405E-ND	2.76	22.46	165.48
	6 (152.40)	A9CAA-0406E-ND	2.90	23.60	173.88
	8 (203.20)	A9CAA-0408E-ND	3.18	25.88	190.68
5	2 (50.80)	A9CAA-0502E-ND	2.90	23.63	174.09
	3 (76.20)	A9CAA-0503E-ND	3.05	24.80	182.70
	4 (101.60)	A9CAA-0504E-ND	3.19	25.96	191.31
	5 (127.00)	A9CAA-0505E-ND	3.33	27.13	199.92
	6 (152.40)	A9CAA-0506E-ND	3.48	28.30	208.53
	8 (203.20)	A9CAA-0508E-ND	3.76	30.64	225.75
6	2 (50.80)	A9CAA-0602E-ND	3.15	25.62	188.79
	3 (76.20)	A9CAA-0603E-ND	3.29	26.82	197.61
	4 (101.60)	A9CAA-0604E-ND	3.44	28.02	206.43
	5 (127.00)	A9CAA-0605E-ND	3.59	29.21	215.25
	6 (152.40)	A9CAA-0606E-ND	3.73	30.41	224.07
	8 (203.20)	A9CAA-0608E-ND	4.03	32.80	241.71
8	2 (50.80)	A9CAA-0802E-ND	3.53	28.73	211.68
	3 (76.20)	A9CAA-0803E-ND	3.68	29.98	220.92
	4 (101.60)	A9CAA-0804E-ND	3.84	31.24	230.16
	5 (127.00)	A9CAA-0805E-ND	3.99	32.49	239.40
	6 (152.40)	A9CAA-0806E-ND	4.14	33.74	248.64
	8 (203.20)	A9CAA-0808E-ND	4.45	36.25	267.12
10	2 (50.80)	A9CAA-1002E-ND	4.36	35.54	261.87
	3 (76.20)	A9CAA-1003E-ND	4.53	36.85	271.53
	4 (101.60)	A9CAA-1004E-ND	4.69	38.16	281.19
	5 (127.00)	A9CAA-1005E-ND	4.85	39.47	290.85
	6 (152.40)	A9CAA-1006E-ND	5.01	40.78	300.51
	8 (203.20)	A9CAA-1008E-ND	5.33	43.41	319.83
12	2 (50.80)	A9CAA-1202E-ND	4.87	39.67	292.32
	3 (76.20)	A9CAA-1203E-ND	5.04	41.07	302.61
	4 (101.60)	A9CAA-1204E-ND	5.22	42.47	312.90
	5 (127.00)	A9CAA-1205E-ND	5.39	43.86	323.19
	6 (152.40)	A9CAA-1206E-ND	5.56	45.26	333.48
	8 (203.20)	A9CAA-1208E-ND	5.90	48.05	354.06
17	2 (50.80)	A9CAA-1702E-ND	6.22	50.64	373.17
	3 (76.20)	A9CAA-1703E-ND	6.43	52.33	385.56
	4 (101.60)	A9CAA-1704E-ND	6.63	54.01	397.95
	5 (127.00)	A9CAA-1705E-ND	6.84	55.69	410.34
	6 (152.40)	A9CAA-1706E-ND	7.05	57.37	422.73
	8 (203.20)	A9CAA-1708E-ND	7.46	60.73	447.51
20	2 (50.80)	A9CAA-2002E-ND	7.55	61.50	453.18
	3 (76.20)	A9CAA-2003E-ND	7.79	63.44	467.46
	4 (101.60)	A9CAA-2004E-ND	8.03	65.38	481.74
	5 (127.00)	A9CAA-2005E-ND	8.27	67.32	496.02
	6 (152.40)	A9CAA-2006E-ND	8.51	69.26	510.30
	8 (203.20)	A9CAA-2008E-ND	8.98	73.13	538.86
22	2 (50.80)	A9CAA-2202E-ND	10.95	89.15	656.88
	3 (76.20)	A9CAA-2203E-ND	11.21	91.26	672.42
	4 (101.60)	A9CAA-2204E-ND	11.47	93.37	687.96
	5 (127.00)	A9CAA-2205E-ND	11.73	95.48	703.50
	6 (152.40)	A9CAA-2206E-ND	11.98	97.58	719.04
	8 (203.20)	A9CAA-2208E-ND	12.50	101.80	750.12
25	2 (50.80)	A9CAA-2502E-ND	10.00	81.42	599.97
	3 (76.20)	A9CAA-2503E-ND	10.30	83.88	618.03
	4 (101.60)	A9CAA-2504E-ND	10.60	86.33	636.09
	5 (127.00)	A9CAA-2505E-ND	10.90	88.78	654.15
	6 (152.40)	A9CAA-2506E-ND	11.20	91.23	672.21
	8 (203.20)	A9CAA-2508E-ND	11.81	96.13	708.33

Receptacle Housing to Receptacle Housing

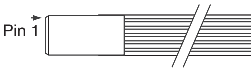

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30μ gold on mating area.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9BBA-0402E-ND	4.90	39.90	294.00
	3 (76.20)	A9BBA-0403E-ND	5.04	41.04	302.40
	4 (101.60)	A9BBA-0404E-ND	5.18	42.18	310.80
	5 (127.00)	A9BBA-0405E-ND	5.32	43.32	319.20
	6 (152.40)	A9BBA-0406E-ND	5.46	44.46	327.60
	8 (203.20)	A9BBA-0408E-ND	5.74	46.74	344.40
5	2 (50.80)	A9BBA-0502E-ND	5.66	46.06	339.36
	3 (76.20)	A9BBA-0503E-ND	5.80	47.22	347.97
	4 (101.60)	A9BBA-0504E-ND	5.94	48.39	356.58
	5 (127.00)	A9BBA-0505E-ND	6.09	49.56	365.19
	6 (152.40)	A9BBA-0506E-ND	6.23	50.73	373.80
	8 (203.20)	A9BBA-0508E-ND	6.52	53.07	391.02
6	2 (50.80)	A9BBA-0602E-ND	5.62	45.74	337.05
	3 (76.20)	A9BBA-0603E-ND	5.76	46.94	345.87
	4 (101.60)	A9BBA-0604E-ND	5.91	48.14	354.69
	5 (127.00)	A9BBA-0605E-ND	6.06	49.33	363.51
	6 (152.40)	A9BBA-0606E-ND	6.21	50.53	372.33
	8 (203.20)	A9BBA-0608E-ND	6.50	52.92	389.97
7	2 (50.80)	A9BBA-0702E-ND	5.72	46.57	343.14
	3 (76.20)	A9BBA-0703E-ND	5.87	47.79	352.17
	4 (101.60)	A9BBA-0704E-ND	6.02	49.02	361.20
	5 (127.00)	A9BBA-0705E-ND	6.17	50.25	370.23
	6 (152.40)	A9BBA-0706E-ND	6.32	51.47	379.26
	8 (203.20)	A9BBA-0708E-ND	6.62	53.92	397.32
8	2 (50.80)	A9BBA-0802E-ND	8.15	66.38	489.09
	3 (76.20)	A9BBA-0803E-ND	8.31	67.63	498.33
	4 (101.60)	A9BBA-0804E-ND	8.46	68.88	507.57
	5 (127.00)	A9BBA-0805E-ND	8.61	70.14	516.81
	6 (152.40)	A9BBA-0806E-ND	8.77	71.39	526.05
	8 (203.20)	A9BBA-0808E-ND	9.08	73.90	544.53
10	2 (50.80)	A9BBA-1002E-ND	7.39	60.19	443.52
	3 (76.20)	A9BBA-1003E-ND	7.55	61.50	453.18
	4 (101.60)	A9BBA-1004E-ND	7.71	62.81	462.84
	5 (127.00)	A9BBA-1005E-ND	7.88	64.13	472.50
	6 (152.40)	A9BBA-1006E-ND	8.04	65.44	482.16
	8 (203.20)	A9BBA-1008E-ND	8.36	68.06	501.48
17	2 (50.80)	A9BBA-1702E-ND	12.20	99.38	732.27
	3 (76.20)	A9BBA-1703E-ND	12.41	101.06	744.66
	4 (101.60)	A9BBA-1704E-ND	12.62	102.74	757.05
	5 (127.00)	A9BBA-1705E-ND	12.82	104.42	769.44
	6 (152.40)	A9BBA-1706E-ND	13.03	106.11	781.83
	8 (203.20)	A9BBA-1708E-ND	13.44	109.47	806.61

(Continued)

AMP .050" (1.27mm) Flat Flex Cable Assemblies *(Cont.)*

RoHS COMPLIANT

Receptacle Housing to Receptacle Housing

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
20	2 (50.80)	A9BBA-2002E-ND	13.38	108.96	802.83
	3 (76.20)	A9BBA-2003E-ND	13.62	110.89	817.11
	4 (101.60)	A9BBA-2004E-ND	13.86	112.83	831.39
	5 (127.00)	A9BBA-2005E-ND	14.09	114.77	845.67
	6 (152.40)	A9BBA-2006E-ND	14.33	116.71	859.95
	8 (203.20)	A9BBA-2008E-ND	14.81	120.58	888.51
25	2 (50.80)	A9BBA-2502E-ND	16.60	135.18	996.03
	3 (76.20)	A9BBA-2503E-ND	16.90	137.63	1014.09
	4 (101.60)	A9BBA-2504E-ND	17.20	140.08	1032.15
	5 (127.00)	A9BBA-2505E-ND	17.50	142.53	1050.21
	6 (152.40)	A9BBA-2506E-ND	17.80	144.98	1068.27
	8 (203.20)	A9BBA-2508E-ND	18.41	149.88	1104.39

Receptacle Housing with Latch to Receptacle Housing with Latch

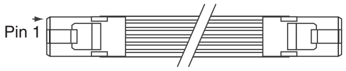

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30µ gold on mating area.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9CCA-0402E-ND	4.00	32.58	240.03
	3 (76.20)	A9CCA-0403E-ND	4.14	33.72	248.43
	4 (101.60)	A9CCA-0404E-ND	4.28	34.86	256.83
	5 (127.00)	A9CCA-0405E-ND	4.42	36.00	265.23
	6 (152.40)	A9CCA-0406E-ND	4.56	37.14	273.63
	8 (203.20)	A9CCA-0408E-ND	4.84	39.42	290.43
5	2 (50.80)	A9CCA-0502E-ND	5.02	40.90	301.35
	3 (76.20)	A9CCA-0503E-ND	5.17	42.07	309.96
	4 (101.60)	A9CCA-0504E-ND	5.31	43.23	318.57
	5 (127.00)	A9CCA-0505E-ND	5.45	44.40	327.18
	6 (152.40)	A9CCA-0506E-ND	5.60	45.57	335.79
	8 (203.20)	A9CCA-0508E-ND	5.88	47.91	353.01
6	2 (50.80)	A9CCA-0602E-ND	5.40	44.00	324.24
	3 (76.20)	A9CCA-0603E-ND	5.55	45.20	333.06
	4 (101.60)	A9CCA-0604E-ND	5.70	46.40	341.88
	5 (127.00)	A9CCA-0605E-ND	5.85	47.60	350.70
	6 (152.40)	A9CCA-0606E-ND	5.99	48.79	359.52
	8 (203.20)	A9CCA-0608E-ND	6.29	51.19	377.16
8	2 (50.80)	A9CCA-0802E-ND	5.96	48.51	357.42
	3 (76.20)	A9CCA-0803E-ND	6.11	49.76	366.66
	4 (101.60)	A9CCA-0804E-ND	6.27	51.02	375.90
	5 (127.00)	A9CCA-0805E-ND	6.42	52.27	385.14
	6 (152.40)	A9CCA-0806E-ND	6.57	53.52	394.38
	8 (203.20)	A9CCA-0808E-ND	6.88	56.03	412.86
10	2 (50.80)	A9CCA-1002E-ND	7.42	60.39	444.99
	3 (76.20)	A9CCA-1003E-ND	7.58	61.70	454.65
	4 (101.60)	A9CCA-1004E-ND	7.74	63.01	464.31
	5 (127.00)	A9CCA-1005E-ND	7.90	64.32	473.97
	6 (152.40)	A9CCA-1006E-ND	8.06	65.64	483.63
	8 (203.20)	A9CCA-1008E-ND	8.38	68.26	502.95
12	2 (50.80)	A9CCA-1202E-ND	8.21	66.89	492.87
	3 (76.20)	A9CCA-1203E-ND	8.39	68.29	503.16
	4 (101.60)	A9CCA-1204E-ND	8.56	69.68	513.45
	5 (127.00)	A9CCA-1205E-ND	8.73	71.08	523.74
	6 (152.40)	A9CCA-1206E-ND	8.90	72.48	534.03
	8 (203.20)	A9CCA-1208E-ND	9.24	75.27	554.61
17	2 (50.80)	A9CCA-1702E-ND	10.35	84.27	620.97
	3 (76.20)	A9CCA-1703E-ND	10.56	85.96	633.36
	4 (101.60)	A9CCA-1704E-ND	10.76	87.64	645.75
	5 (127.00)	A9CCA-1705E-ND	10.97	89.32	658.14
	6 (152.40)	A9CCA-1706E-ND	11.18	91.00	670.53
	8 (203.20)	A9CCA-1708E-ND	11.59	94.36	695.31
20	2 (50.80)	A9CCA-2002E-ND	12.66	103.06	759.36
	3 (76.20)	A9CCA-2003E-ND	12.89	104.99	773.64
	4 (101.60)	A9CCA-2004E-ND	13.13	106.93	787.92
	5 (127.00)	A9CCA-2005E-ND	13.37	108.87	802.20
	6 (152.40)	A9CCA-2006E-ND	13.61	110.81	816.48
	8 (203.20)	A9CCA-2008E-ND	14.08	114.68	845.04
22	2 (50.80)	A9CCA-2202E-ND	19.20	156.38	1152.27
	3 (76.20)	A9CCA-2203E-ND	19.46	158.49	1167.81
	4 (101.60)	A9CCA-2204E-ND	19.72	160.60	1183.35
	5 (127.00)	A9CCA-2205E-ND	19.98	162.71	1198.89
	6 (152.40)	A9CCA-2206E-ND	20.24	164.82	1214.43
	8 (203.20)	A9CCA-2208E-ND	20.76	169.03	1245.51
25	2 (50.80)	A9CCA-2502E-ND	16.93	137.85	1015.77
	3 (76.20)	A9CCA-2503E-ND	17.23	140.31	1033.83
	4 (101.60)	A9CCA-2504E-ND	17.53	142.76	1051.89
	5 (127.00)	A9CCA-2505E-ND	17.83	145.21	1069.95
	6 (152.40)	A9CCA-2506E-ND	18.13	147.66	1088.01
	8 (203.20)	A9CCA-2508E-ND	18.74	152.56	1124.13

AMP .100" (2.54mm) Flat Flex Cable Assemblies

RoHS COMPLIANT

.100 (2.54mm) Flat Flex Cable Material: • Conductors: Un-plated copper per QQ-C-502 • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 2 amperes (28AWG equivalent) • Voltage Rating: 300 volts • Tem perature Rating: -20°C ~ 105°C • Insulation Resistance: 5000 megohms (min.) • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1

Solder Tab to Solder Tab

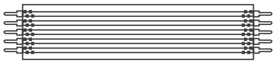

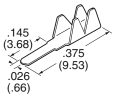

Solder Tab pin

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9AAT-0202F-ND	.66	5.36	39.48
	3 (76.20)	A9AAT-0203F-ND	.77	6.30	46.41
	4 (101.60)	A9AAT-0204F-ND	.89	7.24	53.34
	5 (127.00)	A9AAT-0205F-ND	1.00	8.15	60.06
	6 (152.40)	A9AAT-0206F-ND	1.12	9.09	66.99
	8 (203.20)	A9AAT-0208F-ND	1.35	10.97	80.85
3	2 (50.80)	A9AAT-0302F-ND	.85	6.93	51.03
	3 (76.20)	A9AAT-0303F-ND	.97	7.92	58.38
	4 (101.60)	A9AAT-0304F-ND	1.10	8.92	65.73
	5 (127.00)	A9AAT-0305F-ND	1.21	9.89	72.87
	6 (152.40)	A9AAT-0306F-ND	1.34	10.89	80.22
	8 (203.20)	A9AAT-0308F-ND	1.58	12.85	94.71
4	2 (50.80)	A9AAT-0402F-ND	1.02	8.32	61.32
	3 (76.20)	A9AAT-0403F-ND	1.15	9.35	68.88
	4 (101.60)	A9AAT-0404F-ND	1.27	10.37	76.44
	5 (127.00)	A9AAT-0405F-ND	1.40	11.40	84.00
	6 (152.40)	A9AAT-0406F-ND	1.53	12.43	91.56
	8 (203.20)	A9AAT-0408F-ND	1.78	14.48	106.68
5	2 (50.80)	A9AAT-0502F-ND	1.18	9.58	70.56
	3 (76.20)	A9AAT-0503F-ND	1.31	10.66	78.54
	4 (101.60)	A9AAT-0504F-ND	1.44	11.71	86.31
	5 (127.00)	A9AAT-0505F-ND	1.57	12.77	94.08
	6 (152.40)	A9AAT-0506F-ND	1.70	13.85	102.06
	8 (203.20)	A9AAT-0508F-ND	1.96	15.99	117.81
6	2 (50.80)	A9AAT-0602F-ND	1.34	10.89	80.22
	3 (76.20)	A9AAT-0603F-ND	1.48	12.08	89.04
	4 (101.60)	A9AAT-0604F-ND	1.63	13.28	97.86
	5 (127.00)	A9AAT-0605F-ND	1.78	14.48	106.68
	6 (152.40)	A9AAT-0606F-ND	1.92	15.65	115.29
	8 (203.20)	A9AAT-0608F-ND	2.22	18.04	132.93
8	2 (50.80)	A9AAT-0802F-ND	1.68	13.71	101.01
	3 (76.20)	A9AAT-0803F-ND	1.86	15.16	111.72
	4 (101.60)	A9AAT-0804F-ND	2.04	16.62	122.43
	5 (127.00)	A9AAT-0805F-ND	2.22	18.07	133.14
	6 (152.40)	A9AAT-0806F-ND	2.40	19.55	144.06
	8 (203.20)	A9AAT-0808F-ND	2.76	22.46	165.48
9	2 (50.80)	A9AAT-0902F-ND	1.86	15.16	111.72
	3 (76.20)	A9AAT-0903F-ND	2.09	16.99	125.16
	4 (101.60)	A9AAT-0904F-ND	2.31	18.78	138.39
	5 (127.00)	A9AAT-0905F-ND	2.53	20.61	151.83
	6 (152.40)	A9AAT-0906F-ND	2.75	22.43	165.27
	8 (203.20)	A9AAT-0908F-ND	3.20	26.08	192.15
10	2 (50.80)	A9AAT-1002F-ND	1.95	15.87	116.97
	3 (76.20)	A9AAT-1003F-ND	2.18	17.73	130.62
	4 (101.60)	A9AAT-1004F-ND	2.40	19.58	144.27
	5 (127.00)	A9AAT-1005F-ND	2.64	21.46	158.13
	6 (152.40)	A9AAT-1006F-ND	2.86	23.31	171.78
	8 (203.20)	A9AAT-1008F-ND	3.32	27.02	199.08
11	2 (50.80)	A9AAT-1102F-ND	2.03	16.56	122.01
	3 (76.20)	A9AAT-1103F-ND	2.27	18.47	136.08
	4 (101.60)	A9AAT-1104F-ND	2.50	20.35	149.94
	5 (127.00)	A9AAT-1105F-ND	2.73	22.26	164.01
	6 (152.40)	A9AAT-1106F-ND	2.96	24.14	177.87
	8 (203.20)	A9AAT-1108F-ND	3.43	27.96	206.01
12	2 (50.80)	A9AAT-1202F-ND	2.34	19.04	140.28
	3 (76.20)	A9AAT-1203F-ND	2.65	21.57	158.97
	4 (101.60)	A9AAT-1204F-ND	2.96	24.14	177.87
	5 (127.00)	A9AAT-1205F-ND	3.28	26.68	196.56
	6 (152.40)	A9AAT-1206F-ND	3.59	29.24	215.46
	8 (203.20)	A9AAT-1208F-ND	4.22	34.34	253.05
13	2 (50.80)	A9AAT-1302F-ND	2.49	20.26	149.31
	3 (76.20)	A9AAT-1303F-ND	2.81	22.86	168.42
	4 (101.60)	A9AAT-1304F-ND	3.13	25.45	187.53
	5 (127.00)	A9AAT-1305F-ND	3.44	28.04	206.64
	6 (152.40)	A9AAT-1306F-ND	3.76	30.64	225.75
	8 (203.20)	A9AAT-1308F-ND	4.40	35.80	263.76
14	2 (50.80)	A9AAT-1402F-ND	2.64	21.49	158.34
	3 (76.20)	A9AAT-1403F-ND	2.96	24.14	177.87
	4 (101.60)	A9AAT-1404F-ND	3.29	26.76	197.19
	5 (127.00)	A9AAT-1405F-ND	3.61	29.38	216.51
	6 (152.40)	A9AAT-1406F-ND	3.93	32.01	235.83
	8 (203.20)	A9AAT-1408F-ND	4.58	37.28	274.68
15	2 (50.80)	A9AAT-1502F-ND	2.80	22.77	167.79
	3 (76.20)	A9AAT-1503F-ND	3.13	25.45	187.53
	4 (101.60)	A9AAT-1504F-ND	3.45	28.13	207.27
	5 (127.00)	A9AAT-1505F-ND	3.78	30.81	227.01
	6 (152.40)	A9AAT-1506F-ND	4.11	33.49	246.75
	8 (203.20)	A9AAT-1508F-ND	4.77	38.85	286.23
16	2 (50.80)	A9AAT-1602F-ND	2.95	24.00	176.82
	3 (76.20)	A9AAT-1603F-ND	3.28	26.70	196.77
	4 (101.60)	A9AAT-1604F-ND	3.62	29.44	216.93
	5 (127.00)	A9AAT-1605F-ND	3.95	32.15	236.88
	6 (152.40)	A9AAT-1606F-ND	4.28	34.88	257.04
	8 (203.20)	A9AAT-1608F-ND	4.95	40.30	296.94
18	2 (50.80)	A9AAT-1802F-ND	3.70	30.10	221.76
	3 (76.20)	A9AAT-1803F-ND	4.26	34.71	255.78
	4 (101.60)	A9AAT-1804F-ND	4.83	39.33	289.80
	5 (127.00)	A9AAT-1805F-ND	5.40	43.95	323.82
	6 (152.40)	A9AAT-1806F-ND	5.96	48.56	357.84
	8 (203.20)	A9AAT-1808F-ND	7.10	57.80	425.88
20	2 (50.80)	A9AAT-2002F-ND	4.00	32.60	240.24
	3 (76.20)	A9AAT-2003F-ND	4.59	37.34	275.10
	4 (101.60)	A9AAT-2004F-ND	5.16	42.04	309.75
	5 (127.00)	A9AAT-2005F-ND	5.74	46.74	344.40
	6 (152.40)	A9AAT-2006F-ND	6.32	51.44	379.05
	8 (203.20)	A9AAT-2008F-ND	7.48	60.88	448.56

Receptacle Housing to Solder Tab

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

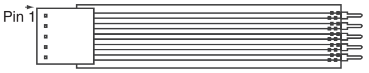

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BAG-0202F-ND	1.91	15.56	114.66
	3 (76.20)	A9BAG-0203F-ND	2.03	16.50	121.59
	4 (101.60)	A9BAG-0204F-ND	2.14	17.44	128.52
	5 (127.00)	A9BAG-0205F-ND	2.26	18.38	135.45
	6 (152.40)	A9BAG-0206F-ND	2.37	19.32	142.38
	8 (203.20)	A9BAG-0208F-ND	2.60	21.20	156.24
3	2 (50.80)	A9BAG-0302F-ND	1.97	16.05	118.23
	3 (76.20)	A9BAG-0303F-ND	2.09	17.01	125.37
	4 (101.60)	A9BAG-0304F-ND	2.21	18.01	132.72
	5 (127.00)	A9BAG-0305F-ND	2.33	19.01	140.07
	6 (152.40)	A9BAG-0306F-ND	2.45	19.98	147.21
	8 (203.20)	A9BAG-0308F-ND	2.70	21.95	161.70
4	2 (50.80)	A9BAG-0402F-ND	2.64	21.46	158.13
	3 (76.20)	A9BAG-0403F-ND	2.76	22.49	165.69
	4 (101.60)	A9BAG-0404F-ND	2.89	23.51	173.25
	5 (127.00)	A9BAG-0405F-ND	3.01	24.54	180.81
	6 (152.40)	A9BAG-0406F-ND	3.14	25.56	188.37
	8 (203.20)	A9BAG-0408F-ND	3.39	27.62	203.49
5	2 (50.80)	A9BAG-0502F-ND	2.75	22.37	164.85
	3 (76.20)	A9BAG-0503F-ND	2.88	23.46	172.83
	4 (101.60)	A9BAG-0504F-ND	3.01	24.51	180.60
	5 (127.00)	A9BAG-0505F-ND	3.14	25.56	188.37
	6 (152.40)	A9BAG-0506F-ND	3.27	26.65	196.35
	8 (203.20)	A9BAG-0508F-ND	3.53	28.76	211.89
6	2 (50.80)	A9BAG-0602F-ND	3.45	28.07	206.85
	3 (76.20)	A9BAG-0603F-ND	3.59	29.27	215.67
	4 (101.60)	A9BAG-0604F-ND	3.74	30.47	224.49
	5 (127.00)	A9BAG-0605F-ND	3.89	31.66	233.31
	6 (152.40)	A9BAG-0606F-ND	4.03	32.83	241.92
	8 (203.20)	A9BAG-0608F-ND	4.33	35.23	259.56
8	2 (50.80)	A9BAG-0802F-ND	3.64	29.61	218.19
	3 (76.20)	A9BAG-0803F-ND	3.82	31.07	228.90
	4 (101.60)	A9BAG-0804F-ND	4.00	32.55	239.82
	5 (127.00)	A9BAG-0805F-ND	4.18	34.00	250.53
	6 (152.40)	A9BAG-0806F-ND	4.35	35.45	261.24
	8 (203.20)	A9BAG-0808F-ND	4.71	38.39	282.87
9	2 (50.80)	A9BAG-0902F-ND	3.76	30.61	225.54
	3 (76.20)	A9BAG-0903F-ND	3.98	32.43	238.98
	4 (101.60)	A9BAG-0904F-ND	4.21	34.26	252.42
	5 (127.00)	A9BAG-0905F-ND	4.43	36.08	265.86
	6 (152.40)	A9BAG-0906F-ND	4.66	37.91	279.30
	8 (203.20)	A9BAG-0908F-ND	5.10	41.55	306.18
10	2 (50.80)	A9BAG-1002F-ND	4.18	34.03	250.74
	3 (76.20)	A9BAG-1003F-ND	4.41	35.88	264.39
	4 (101.60)	A9BAG-1004F-ND	4.64	37.76	278.25
	5 (127.00)	A9BAG-1005F-ND	4.87	39.62	291.90
	6 (152.40)	A9BAG-1006F-ND	5.09	41.47	305.55
	8 (203.20)	A9BAG-1008F-ND	5.55	45.20	333.06
11	2 (50.80)	A9BAG-1102F-ND	4.28	34.88	257.04
	3 (76.20)	A9BAG-1103F-ND	4.52	36.79	271.11
	4 (101.60)	A9BAG-1104F-ND	4.75	38.67	284.97
	5 (127.00)	A9BAG-1105F-ND	4.98	40.58	299.04
	6 (152.40)	A9BAG-1106F-ND	5.22	42.47	312.90
	8 (203.20)	A9BAG-1108F-ND	5.68	46.28	341.04
12	2 (50.80)	A9BAG-1202F-ND	4.60	37.48	276.15
	3 (76.20)	A9BAG-1203F-ND	4.91	40.01	294.84
	4 (101.60)	A9BAG-1204F-ND	5.23	42.58	313.74
	5 (127.00)	A9BAG-1205F-ND	5.54	45.12	332.43
	6 (152.40)	A9BAG-1206F-ND	5.86	47.68	351.33
	8 (203.20)	A9BAG-1208F-ND	6.48	52.78	388.92
13	2 (50.80)	A9BAG-1302F-ND	5.40	43.98	324.03
	3 (76.20)	A9BAG-1303F-ND	5.72	46.57	343.14
	4 (101.60)	A9BAG-1304F-ND	6.03	49.13	362.04
	5 (127.00)	A9BAG-1305F-ND	6.35	51.73	381.15
	6 (152.40)	A9BAG-1306F-ND	6.67	54.32	400.26
	8 (203.20)	A9BAG-1308F-ND	7.31	59.51	438.48
14	2 (50.80)	A9BAG-1402F-ND	6.07	49.39	363.93
	3 (76.20)	A9BAG-1403F-ND	6.39	52.01	383.25
	4 (101.60)	A9BAG-1404F-ND	6.71	54.63	402.57
	5 (127.00)	A9BAG-1405F-ND	7.03	57.26	421.89
	6 (152.40)	A9BAG-1406F-ND	7.36	59.91	441.42
	8 (203.20)	A9BAG-1408F-ND	8.00	65.15	480.06
15	2 (50.80)	A9BAG-1502F-ND	6.12	49.85	367.29
	3 (76.20)	A9BAG-1503F-ND	6.45	52.53	387.03
	4 (101.60)	A9BAG-1504F-ND	6.78	55.20	406.77
	5 (127.00)	A9BAG-1505F-ND	7.11	57.88	426.51
	6 (152.40)	A9BAG-1506F-ND	7.44	60.59	446.46
	8 (203.20)	A9BAG-1508F-ND	8.10	65.95	485.94
16	2 (50.80)	A9BAG-1602F-ND	7.09	57.71	425.25
	3 (76.20)	A9BAG-1603F-ND	7.42	60.42	445.20
	4 (101.60)	A9BAG-1604F-ND	7.76	63.16	465.36
	5 (127.00)	A9BAG-1605F-ND	8.09	65.86	485.31
	6 (152.40)	A9BAG-1606F-ND	8.42	68.57	505.26
	8 (203.20)	A9BAG-1608F-ND	9.09	74.01	545.37
18	2 (50.80)	A9BAG-1802F-ND	6.91	56.23	414.33
	3 (76.20)	A9BAG-1803F-ND	7.47	60.85	448.35
	4 (101.60)	A9BAG-1804F-ND	8.04	65.46	482.37
	5 (127.00)	A9BAG-1805F-ND	8.61	70.08	516.39
	6 (152.40)	A9BAG-1806F-ND	9.17	74.70	550.41
	8 (203.20)	A9BAG-1808F-ND	10.31	83.93	618.45
20	2 (50.80)	A9BAG-2002F-ND	7.91	64.41	474.60
	3 (76.20)	A9BAG-2003F-ND	8.49	69.11	509.25
	4 (101.60)	A9BAG-2004F-ND	9.07	73.82	543.90
	5 (127.00)	A9BAG-2005F-ND	9.64	78.52	578.55
	6 (152.40)	A9BAG-2006F-ND	10.22	83.25	613.41
	8 (203.20)	A9BAG-2008F-ND	11.38	92.65	682.71

A9BAG-□□□□F-ND = 15µ gold or 30µ gold on mating area;
A9BAA-□□□□F-ND = 30µ gold

Call for complete part number and pricing. *(Continued)*

AMP .100" (2.54mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

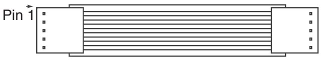

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BBG-0202F-ND	3.17	25.79	190.05
	3 (76.20)	A9BBG-0203F-ND	3.28	26.73	196.98
	4 (101.60)	A9BBG-0204F-ND	3.40	27.67	203.91
	5 (127.00)	A9BBG-0205F-ND	3.51	28.61	210.84
	6 (152.40)	A9BBG-0206F-ND	3.63	29.55	217.77
	8 (203.20)	A9BBG-0208F-ND	3.86	31.41	231.42
3	2 (50.80)	A9BBG-0302F-ND	3.09	25.14	185.22
	3 (76.20)	A9BBG-0303F-ND	3.21	26.13	192.57
	4 (101.60)	A9BBG-0304F-ND	3.33	27.10	199.71
	5 (127.00)	A9BBG-0305F-ND	3.45	28.10	207.06
	6 (152.40)	A9BBG-0306F-ND	3.57	29.07	214.20
	8 (203.20)	A9BBG-0308F-ND	3.82	31.07	228.90
4	2 (50.80)	A9BBG-0402F-ND	4.25	34.60	254.94
	3 (76.20)	A9BBG-0403F-ND	4.38	35.63	262.50
	4 (101.60)	A9BBG-0404F-ND	4.50	36.65	270.06
	5 (127.00)	A9BBG-0405F-ND	4.63	37.68	277.62
	6 (152.40)	A9BBG-0406F-ND	4.75	38.70	285.18
	8 (203.20)	A9BBG-0408F-ND	5.01	40.76	300.30
5	2 (50.80)	A9BBG-0502F-ND	4.32	35.17	259.14
	3 (76.20)	A9BBG-0503F-ND	4.45	36.22	266.91
	4 (101.60)	A9BBG-0504F-ND	4.58	37.31	274.89
	5 (127.00)	A9BBG-0505F-ND	4.71	38.36	282.66
	6 (152.40)	A9BBG-0506F-ND	4.84	39.42	290.43
	8 (203.20)	A9BBG-0508F-ND	5.10	41.55	306.18
6	2 (50.80)	A9BBG-0602F-ND	5.56	45.26	333.48
	3 (76.20)	A9BBG-0603F-ND	5.71	46.46	342.30
	4 (101.60)	A9BBG-0604F-ND	5.85	47.65	351.12
	5 (127.00)	A9BBG-0605F-ND	6.00	48.85	359.94
	6 (152.40)	A9BBG-0606F-ND	6.14	50.02	368.55
	8 (203.20)	A9BBG-0608F-ND	6.44	52.41	386.19
8	2 (50.80)	A9BBG-0802F-ND	5.59	45.51	335.37
	3 (76.20)	A9BBG-0803F-ND	5.77	47.00	346.29
	4 (101.60)	A9BBG-0804F-ND	5.95	48.45	357.00
	5 (127.00)	A9BBG-0805F-ND	6.13	49.90	367.71
	6 (152.40)	A9BBG-0806F-ND	6.31	51.39	378.63
	8 (203.20)	A9BBG-0808F-ND	6.67	54.29	400.05
9	2 (50.80)	A9BBG-0902F-ND	5.66	46.08	339.57
	3 (76.20)	A9BBG-0903F-ND	5.88	47.88	352.80
	4 (101.60)	A9BBG-0904F-ND	6.10	49.70	366.24
	5 (127.00)	A9BBG-0905F-ND	6.33	51.53	379.68
	6 (152.40)	A9BBG-0906F-ND	6.55	53.35	393.12
	8 (203.20)	A9BBG-0908F-ND	7.00	57.00	420.00
10	2 (50.80)	A9BBG-1002F-ND	6.41	52.21	384.72
	3 (76.20)	A9BBG-1003F-ND	6.64	54.06	398.37
	4 (101.60)	A9BBG-1004F-ND	6.87	55.92	412.02
	5 (127.00)	A9BBG-1005F-ND	7.09	57.77	425.67
	6 (152.40)	A9BBG-1006F-ND	7.33	59.65	439.53
	8 (203.20)	A9BBG-1008F-ND	7.78	63.36	466.83
11	2 (50.80)	A9BBG-1102F-ND	6.53	53.21	392.07
	3 (76.20)	A9BBG-1103F-ND	6.77	55.12	406.14
	4 (101.60)	A9BBG-1104F-ND	7.00	57.00	420.00
	5 (127.00)	A9BBG-1105F-ND	7.23	58.91	434.07
	6 (152.40)	A9BBG-1106F-ND	7.47	60.82	448.14
	8 (203.20)	A9BBG-1108F-ND	7.93	64.61	476.07
12	2 (50.80)	A9BBG-1202F-ND	6.87	55.92	412.02
	3 (76.20)	A9BBG-1203F-ND	7.18	58.45	430.71
	4 (101.60)	A9BBG-1204F-ND	7.49	61.02	449.61
	5 (127.00)	A9BBG-1205F-ND	7.81	63.56	468.30
	6 (152.40)	A9BBG-1206F-ND	8.12	66.12	487.20
	8 (203.20)	A9BBG-1208F-ND	8.75	71.22	524.79
13	2 (50.80)	A9BBG-1302F-ND	8.31	67.66	498.54
	3 (76.20)	A9BBG-1303F-ND	8.63	70.25	517.65
	4 (101.60)	A9BBG-1304F-ND	8.95	72.85	536.76
	5 (127.00)	A9BBG-1305F-ND	9.26	75.44	555.87
	6 (152.40)	A9BBG-1306F-ND	9.58	78.03	574.98
	8 (203.20)	A9BBG-1308F-ND	10.22	83.22	613.20
14	2 (50.80)	A9BBG-1402F-ND	9.49	77.26	569.31
	3 (76.20)	A9BBG-1403F-ND	9.81	79.89	588.63
	4 (101.60)	A9BBG-1404F-ND	10.13	82.51	607.95
	5 (127.00)	A9BBG-1405F-ND	10.46	85.16	627.48
	6 (152.40)	A9BBG-1406F-ND	10.78	87.78	646.80
	8 (203.20)	A9BBG-1408F-ND	11.42	93.02	685.44
15	2 (50.80)	A9BBG-1502F-ND	9.45	76.95	567.00
	3 (76.20)	A9BBG-1503F-ND	9.78	79.63	586.74
	4 (101.60)	A9BBG-1504F-ND	10.11	82.31	606.48
	5 (127.00)	A9BBG-1505F-ND	10.44	84.99	626.22
	6 (152.40)	A9BBG-1506F-ND	10.77	87.67	645.96
	8 (203.20)	A9BBG-1508F-ND	11.42	93.02	685.44
16	2 (50.80)	A9BBG-1602F-ND	11.23	91.43	673.68
	3 (76.20)	A9BBG-1603F-ND	11.56	94.14	693.63
	4 (101.60)	A9BBG-1604F-ND	11.89	96.84	713.58
	5 (127.00)	A9BBG-1605F-ND	12.23	99.58	733.74
	6 (152.40)	A9BBG-1606F-ND	12.56	102.29	753.69
	8 (203.20)	A9BBG-1608F-ND	13.23	107.73	793.80
18	2 (50.80)	A9BBG-1802F-ND	10.12	82.37	606.90
	3 (76.20)	A9BBG-1803F-ND	10.68	86.98	640.92
	4 (101.60)	A9BBG-1804F-ND	11.25	91.60	674.94
	5 (127.00)	A9BBG-1805F-ND	11.82	96.22	708.96
	6 (152.40)	A9BBG-1806F-ND	12.38	100.83	742.98
	8 (203.20)	A9BBG-1808F-ND	13.52	110.07	811.02
20	2 (50.80)	A9BBG-2002F-ND	11.81	96.19	708.75
	3 (76.20)	A9BBG-2003F-ND	12.39	100.89	743.40
	4 (101.60)	A9BBG-2004F-ND	12.97	105.62	778.26
	5 (127.00)	A9BBG-2005F-ND	13.55	110.32	812.91
	6 (152.40)	A9BBG-2006F-ND	14.13	115.03	847.56
	8 (203.20)	A9BBG-2008F-ND	15.28	124.43	916.86

A9BBG-□□□□F-ND = 15µ gold; A9BBA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Receptacle Housing with Latch to Solder Tab

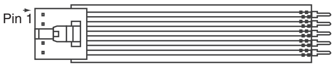

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9CAG-0202F-ND	2.09	17.01	125.37
	3 (76.20)	A9CAG-0203F-ND	2.21	17.96	132.30
	4 (101.60)	A9CAG-0204F-ND	2.32	18.87	139.02
	5 (127.00)	A9CAG-0205F-ND	2.43	19.81	145.95
	6 (152.40)	A9CAG-0206F-ND	2.55	20.75	152.88
	8 (203.20)	A9CAG-0208F-ND	2.78	22.63	166.74
3	2 (50.80)	A9CAG-0302F-ND	2.25	18.35	135.24
	3 (76.20)	A9CAG-0303F-ND	2.38	19.35	142.59
	4 (101.60)	A9CAG-0304F-ND	2.50	20.35	149.94
	5 (127.00)	A9CAG-0305F-ND	2.62	21.32	157.08
	6 (152.40)	A9CAG-0306F-ND	2.74	22.32	164.43
	8 (203.20)	A9CAG-0308F-ND	2.98	24.28	178.92
4	2 (50.80)	A9CAG-0402F-ND	2.91	23.71	174.72
	3 (76.20)	A9CAG-0403F-ND	3.04	24.74	182.28
	4 (101.60)	A9CAG-0404F-ND	3.16	25.76	189.84
	5 (127.00)	A9CAG-0405F-ND	3.29	26.79	197.40
	6 (152.40)	A9CAG-0406F-ND	3.42	27.82	204.96
	8 (203.20)	A9CAG-0408F-ND	3.67	29.87	220.08
5	2 (50.80)	A9CAG-0502F-ND	3.23	26.28	193.62
	3 (76.20)	A9CAG-0503F-ND	3.36	27.33	201.39
	4 (101.60)	A9CAG-0504F-ND	3.49	28.39	209.16
	5 (127.00)	A9CAG-0505F-ND	3.62	29.47	217.14
	6 (152.40)	A9CAG-0506F-ND	3.75	30.52	224.91
	8 (203.20)	A9CAG-0508F-ND	4.01	32.66	240.66
6	2 (50.80)	A9CAG-0602F-ND	3.36	27.39	201.81
	3 (76.20)	A9CAG-0603F-ND	3.51	28.59	210.63
	4 (101.60)	A9CAG-0604F-ND	3.66	29.78	219.45
	5 (127.00)	A9CAG-0605F-ND	3.80	30.98	228.27
	6 (152.40)	A9CAG-0606F-ND	3.95	32.18	237.09
	8 (203.20)	A9CAG-0608F-ND	4.24	34.54	254.52
8	2 (50.80)	A9CAG-0802F-ND	4.29	34.94	257.46
	3 (76.20)	A9CAG-0803F-ND	4.47	36.42	268.38
	4 (101.60)	A9CAG-0804F-ND	4.65	37.88	279.09
	5 (127.00)	A9CAG-0805F-ND	4.83	39.33	289.80
	6 (152.40)	A9CAG-0806F-ND	5.01	40.78	300.51
	8 (203.20)	A9CAG-0808F-ND	5.37	43.72	322.14
9	2 (50.80)	A9CAG-0902F-ND	4.45	36.22	266.91
	3 (76.20)	A9CAG-0903F-ND	4.67	38.05	280.35
	4 (101.60)	A9CAG-0904F-ND	4.90	39.87	293.79
	5 (127.00)	A9CAG-0905F-ND	5.12	41.70	307.23
	6 (152.40)	A9CAG-0906F-ND	5.34	43.52	320.67
	8 (203.20)	A9CAG-0908F-ND	5.79	47.17	347.55
10	2 (50.80)	A9CAG-1002F-ND	4.70	38.30	282.24
	3 (76.20)	A9CAG-1003F-ND	4.93	40.16	295.89
	4 (101.60)	A9CAG-1004F-ND	5.16	42.01	309.54
	5 (127.00)	A9CAG-1005F-ND	5.39	43.86	323.19
	6 (152.40)	A9CAG-1006F-ND	5.62	45.74	337.05
	8 (203.20)	A9CAG-1008F-ND	6.07	49.45	364.35
11	2 (50.80)	A9CAG-1102F-ND	5.95	48.45	357.00
	3 (76.20)	A9CAG-1103F-ND	6.18	50.33	370.86
	4 (101.60)	A9CAG-1104F-ND	6.42	52.24	384.93
	5 (127.00)	A9CAG-1105F-ND	6.65	54.12	398.79
	6 (152.40)	A9CAG-1106F-ND	6.88	56.03	412.86
	8 (203.20)	A9CAG-1108F-ND	7.35	59.82	440.79
12	2 (50.80)	A9CAG-1202F-ND	5.34	43.49	320.46
	3 (76.20)	A9CAG-1203F-ND	5.66	46.06	339.36
	4 (101.60)	A9CAG-1204F-ND	5.97	48.59	358.05
	5 (127.00)	A9CAG-1205F-ND	6.28	51.16	376.95
	6 (152.40)	A9CAG-1206F-ND	6.60	53.72	395.85
	8 (203.20)	A9CAG-1208F-ND	7.22	58.82	433.44
13	2 (50.80)	A9CAG-1302F-ND	6.70	54.52	401.73
	3 (76.20)	A9CAG-1303F-ND	7.01	57.11	420.84
	4 (101.60)	A9CAG-1304F-ND	7.33	59.71	439.95
	5 (127.00)	A9CAG-1305F-ND	7.65	62.30	459.06
	6 (152.40)	A9CAG-1306F-ND	7.97	64.89	478.17
	8 (203.20)	A9CAG-1308F-ND	8.61	70.08	516.39
14	2 (50.80)	A9CAG-1402F-ND	6.16	50.16	369.60
	3 (76.20)	A9CAG-1403F-ND	6.48	52.78	388.92
	4 (101.60)	A9CAG-1404F-ND	6.80	55.40	408.24
	5 (127.00)	A9CAG-1405F-ND	7.13	58.05	427.77
	6 (152.40)	A9CAG-1406F-ND	7.45	60.68	447.09
	8 (203.20)	A9CAG-1408F-ND	8.10	65.92	485.73
15	2 (50.80)	A9CAG-1502F-ND	6.75	54.95	404.88
	3 (76.20)	A9CAG-1503F-ND	7.08	57.63	424.62
	4 (101.60)	A9CAG-1504F-ND	7.41	60.31	444.36
	5 (127.00)	A9CAG-1505F-ND	7.74	63.01	464.31
	6 (152.40)	A9CAG-1506F-ND	8.07	65.69	484.05
	8 (203.20)	A9CAG-1508F-ND	8.73	71.05	523.53
16	2 (50.80)	A9CAG-1602F-ND	6.77	55.15	406.35
	3 (76.20)	A9CAG-1603F-ND	7.11	57.88	426.51
	4 (101.60)	A9CAG-1604F-ND	7.44	60.59	446.46
	5 (127.00)	A9CAG-1605F-ND	7.78	63.33	466.62
	6 (152.40)	A9CAG-1606F-ND	8.11	66.03	486.57
	8 (203.20)	A9CAG-1608F-ND	8.78	71.48	526.68
18	2 (50.80)	A9CAG-1802F-ND	10.12	82.39	607.11
	3 (76.20)	A9CAG-1803F-ND	10.69	87.01	641.13
	4 (101.60)	A9CAG-1804F-ND	11.25	91.63	675.15
	5 (127.00)	A9CAG-1805F-ND	11.82	96.22	708.96
	6 (152.40)	A9CAG-1806F-ND	12.38	100.83	742.98
	8 (203.20)	A9CAG-1808F-ND	13.52	110.07	811.02
20	2 (50.80)	A9CAG-2002F-ND	9.24	75.24	554.40
	3 (76.20)	A9CAG-2003F-ND	9.82	79.94	589.05
	4 (101.60)	A9CAG-2004F-ND	10.40	84.65	623.70
	5 (127.00)	A9CAG-2005F-ND	10.98	89.38	658.56
	6 (152.40)	A9CAG-2006F-ND	11.55	94.08	693.21
	8 (203.20)	A9CAG-2008F-ND	12.71	103.48	762.51

A9CAG-□□□□F-ND = 15µ gold; A9CAA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Receptacle Housing with Latch to Receptacle Housing with Latch

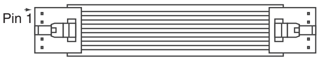

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length Inch (mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9CCG-0202F-ND	3.52	28.67	211.26
	3 (76.20)	A9CCG-0203F-ND	3.64	29.61	218.19
	4 (101.60)	A9CCG-0204F-ND	3.75	30.52	224.91
	5 (127.00)	A9CCG-0205F-ND	3.86	31.46	231.84
	6 (152.40)	A9CCG-0206F-ND	3.98	32.40	238.77
	8 (203.20)	A9CCG-0208F-ND	4.21	34.29	252.63
3	2 (50.80)	A9CCG-0302F-ND	3.66	29.78	219.45
	3 (76.20)	A9CCG-0303F-ND	3.78	30.78	226.80
	4 (101.60)	A9CCG-0304F-ND	3.90	31.78	234.15
	5 (127.00)	A9CCG-0305F-ND	4.02	32.75	241.29
	6 (152.40)	A9CCG-0306F-ND	4.14	33.74	248.64
	8 (203.20)	A9CCG-0308F-ND	4.39	35.71	263.13
4	2 (50.80)	A9CCG-0402F-ND	4.80	39.10	288.12
	3 (76.20)	A9CCG-0403F-ND	4.93	40.13	295.68
	4 (101.60)	A9CCG-0404F-ND	5.05	41.15	303.24
	5 (127.00)	A9CCG-0405F-ND	5.18	42.18	310.80
	6 (152.40)	A9CCG-0406F-ND	5.31	43.21	318.36
	8 (203.20)	A9CCG-0408F-ND	5.56	45.26	333.48
5	2 (50.80)	A9CCG-0502F-ND	5.27	42.95	316.47
	3 (76.20)	A9CCG-0503F-ND	5.40	44.00	324.24
	4 (101.60)	A9CCG-0504F-ND	5.53	45.06	332.01
	5 (127.00)	A9CCG-0505F-ND	5.67	46.14	339.99
	6 (152.40)	A9CCG-0506F-ND	5.80	47.20	347.76
	8 (203.20)	A9CCG-0508F-ND	6.06	49.33	363.51
6	2 (50.80)	A9CCG-0602F-ND	5.39	43.92	323.61
	3 (76.20)	A9CCG-0603F-ND	5.54	45.12	332.43
	4 (101.60)	A9CCG-0604F-ND	5.68	46.28	341.04
	5 (127.00)	A9CCG-0605F-ND	5.83	47.48	349.86
	6 (152.40)	A9CCG-0606F-ND	5.98	48.68	358.68
	8 (203.20)	A9CCG-0608F-ND	6.27	51.07	376.32
8	2 (50.80)	A9CCG-0802F-ND	6.90	56.20	414.12
	3 (76.20)	A9CCG-0803F-ND	7.08	57.66	424.83
	4 (101.60)	A9CCG-0804F-ND	7.26	59.14	435.75
	5 (127.00)	A9CCG-0805F-ND	7.44	60.59	446.46
	6 (152.40)	A9CCG-0806F-ND	7.62	62.04	457.17
	8 (203.20)	A9CCG-0808F-ND	7.98	64.98	478.80
9	2 (50.80)	A9CCG-0902F-ND	7.04	57.31	422.31
	3 (76.20)	A9CCG-0903F-ND	7.26	59.14	435.75
	4 (101.60)	A9CCG-0904F-ND	7.49	60.96	449.19
	5 (127.00)	A9CCG-0905F-ND	7.71	62.79	462.63
	6 (152.40)	A9CCG-0906F-ND	7.93	64.58	475.86
	8 (203.20)	A9CCG-0908F-ND	8.38	68.23	502.74
10	2 (50.80)	A9CCG-1002F-ND	7.46	60.73	447.51
	3 (76.20)	A9CCG-1003F-ND	7.69	62.59	461.16
	4 (101.60)	A9CCG-1004F-ND	7.91	64.44	474.81
	5 (127.00)	A9CCG-1005F-ND	8.14	66.29	488.46
	6 (152.40)	A9CCG-1006F-ND	8.37	68.17	502.32
	8 (203.20)	A9CCG-1008F-ND	8.83	71.88	529.62
11	2 (50.80)	A9CCG-1102F-ND	9.86	80.31	591.78
	3 (76.20)	A9CCG-1103F-ND	10.10	82.22	605.85
	4 (101.60)	A9CCG-1104F-ND	10.33	84.10	619.71
	5 (127.00)	A9CCG-1105F-ND	10.56	86.01	633.78
	6 (152.40)	A9CCG-1106F-ND	10.80	87.92	647.85
	8 (203.20)	A9CCG-1108F-ND	11.26	91.71	675.78
12	2 (50.80)	A9CCG-1202F-ND	8.35	67.97	500.85
	3 (76.20)	A9CCG-1203F-ND	8.66	70.54	519.75
	4 (101.60)	A9CCG-1204F-ND	8.97	73.07	538.44
	5 (127.00)	A9CCG-1205F-ND	9.29	75.64	557.34
	6 (152.40)	A9CCG-1206F-ND	9.60	78.18	576.03
	8 (203.20)	A9CCG-1208F-ND	10.23	83.28	613.62
13	2 (50.80)	A9CCG-1302F-ND	10.91	88.81	654.36
	3 (76.20)	A9CCG-1303F-ND	11.22	91.40	673.47
	4 (101.60)	A9CCG-1304F-ND	11.54	93.99	692.58
	5 (127.00)	A9CCG-1305F-ND	11.86	96.59	711.69
	6 (152.40)	A9CCG-1306F-ND	12.18	99.15	730.59
	8 (203.20)	A9CCG-1308F-ND	12.81	104.34	768.81
14	2 (50.80)	A9CCG-1402F-ND	9.68	78.83	580.86
	3 (76.20)	A9CCG-1403F-ND	10.00	81.45	600.18
	4 (101.60)	A9CCG-1404F-ND	10.33	84.08	619.50
	5 (127.00)	A9CCG-1405F-ND	10.65	86.70	638.82
	6 (152.40)	A9CCG-1406F-ND	10.97	89.35	658.35
	8 (203.20)	A9CCG-1408F-ND	11.62	94.59	696.99
15	2 (50.80)	A9CCG-1502F-ND	10.70	87.15	642.18
	3 (76.20)	A9CCG-1503F-ND	11.03	89.83	661.92
	4 (101.60)	A9CCG-1504F-ND	11.36	92.51	681.66
	5 (127.00)	A9CCG-1505F-ND	11.69	95.19	701.40
	6 (152.40)	A9CCG-1506F-ND	12.02	97.87	721.14
	8 (203.20)	A9CCG-1508F-ND	12.68	103.23	760.62
16	2 (50.80)	A9CCG-1602F-ND	10.60	86.33	636.09
	3 (76.20)	A9CCG-1603F-ND	10.93	89.03	656.04
	4 (101.60)	A9CCG-1604F-ND	11.27	91.77	676.20
	5 (127.00)	A9CCG-1605F-ND	11.60	94.48	696.15
	6 (152.40)	A9CCG-1606F-ND	11.94	97.19	716.10
	8 (203.20)	A9CCG-1608F-ND	12.60	102.63	756.21
18	2 (50.80)	A9CCG-1802F-ND	16.54	134.66	992.25
	3 (76.20)	A9CCG-1803F-ND	17.10	139.28	1026.27
	4 (101.60)	A9CCG-1804F-ND	17.67	143.90	1060.29
	5 (127.00)	A9CCG-1805F-ND	18.24	148.51	1094.31
	6 (152.40)	A9CCG-1806F-ND	18.81	153.13	1128.33
	8 (203.20)	A9CCG-1808F-ND	19.94	162.34	1196.16
20	2 (50.80)	A9CCG-2002F-ND	14.47	117.85	868.35
	3 (76.20)	A9CCG-2003F-ND	15.05	122.58	903.21
	4 (101.60)	A9CCG-2004F-ND	15.63	127.28	937.86
	5 (127.00)	A9CCG-2005F-ND	16.21	131.98	972.51
	6 (152.40)	A9CCG-2006F-ND	16.79	136.69	1007.16
	8 (203.20)	A9CCG-2008F-ND	17.94	146.12	1076.67

A9CCG-□□□□F-ND = 15µ gold; A9CCA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Clincher™

Connector System for Flexible Circuitry - 0.100” (2.54 mm) Pitch

Clincher is a two piece, pin and receptacle connector system with features to optimize reliability at the termination and disconnectable interface.

Use 0.100” (2.54mm) Flat Flex Cable

Features:
• “Clincher” Cable termination provides four gas-tight, contamination-free contact points to each conductor • High reliability receptacle design features FCI Mini PV™ dual-metal, mating contacts • Contacts are pre-loaded to connector housings enabling mass termination to unprepared cable; Fast production speed reduces costs.

Material:
Housings: Polypropylene UL 94 V-0 Blue

Electrical Performance:
• Contact Resistance (LLCR) Main Contacts: 10mΩ maximum; 20mΩ maximum after environmental exposure • Insulation Resistance: 5000MΩ minimum • Withstanding Voltage: 1000 VAC RMS • Current Rating: 2.0 amp continuous per contact

Fig. 1

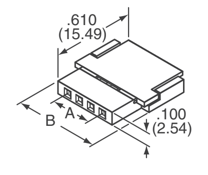

Fig. 2

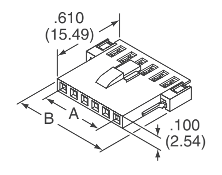

Fig. 3

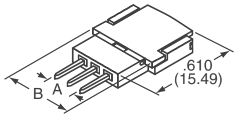

Fig.	No of Positions	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each			FCI Part No.
		A	B		1	25	100	
Receptacles								
1	2	0.100 (2.54)	0.390 (9.91)	609-2158-ND	2.08	1.09	.95	65801-002LF
	2	0.100 (2.54)	0.390 (9.91)	609-3519-ND	1.95	1.12	.97	65801-063LF
	3	0.200 (5.08)	0.490 (12.45)	609-2159-ND	1.22	.67	.57	65801-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2160-ND	1.25	.69	.58	65801-004LF
	4	0.300 (7.62)	0.590 (14.99)	609-3512-ND	2.23	1.29	1.14	65801-033LF
	5	0.400 (10.16)	0.690 (17.53)	609-2161-ND	1.43	.77	.66	65801-005LF
	5	0.400 (10.16)	0.690 (17.53)	609-3513-ND	1.61	.88	.77	65801-034LF
	6	0.500 (12.70)	0.790 (20.07)	609-2162-ND	1.56	.85	.73	65801-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2163-ND	1.78	.97	.85	65801-007LF
	7	0.600 (15.24)	0.890 (22.61)	609-3514-ND	2.77	1.67	1.45	65801-036LF
	8	0.700 (17.78)	0.990 (25.15)	609-2164-ND	1.69	.92	.80	65801-008LF
	8	0.700 (17.78)	0.990 (25.15)	609-3515-ND	2.93	1.80	1.61	65801-037LF
	9	0.800 (20.32)	1.090 (27.69)	609-2165-ND	1.82	1.02	.89	65801-009LF
	9	0.800 (20.32)	1.090 (27.69)	609-3516-ND	3.00	1.84	1.60	65801-038LF
	10	0.900 (22.86)	1.190 (30.23)	609-2166-ND	2.08	1.19	1.03	65801-010LF
	10	0.900 (22.86)	1.190 (30.23)	609-3517-ND	3.39	2.09	1.84	65801-039LF
	11	1.000 (25.40)	1.290 (32.77)	609-2167-ND	2.13	1.25	1.09	65801-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2168-ND	2.17	1.28	1.11	65801-012LF
	12	1.100 (27.94)	1.390 (35.31)	609-3518-ND	3.74	2.33	2.11	65801-041LF
	13	1.200 (30.48)	1.490 (37.85)	609-2169-ND	2.63	1.58	1.38	65801-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2170-ND	2.39	1.37	1.22	65801-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2171-ND	2.87	1.73	1.51	65801-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2172-ND	2.86	1.72	1.50	65801-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2173-ND	3.41	2.09	1.82	65801-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2174-ND	3.39	2.09	1.84	65801-018LF
	20	1.900 (48.26)	2.190 (55.63)	609-2175-ND	3.42	2.10	1.83	65801-020LF
	24	2.300 (58.42)	2.590 (65.79)	609-3511-ND	4.99	3.12	2.85	65801-024LF
Receptacle With Latch								
2	6	0.500 (12.70)	0.790 (20.07)	609-2194-ND	1.78	.94	.81	10022753-006LF
	8	0.700 (17.78)	0.990 (25.15)	609-2196-ND	1.99	1.07	.92	10022753-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2197-ND	1.53	.85	.73	10022753-009LF
	12	1.100 (27.94)	1.390 (35.31)	609-2200-ND	2.27	1.26	1.11	10022753-012LF
	14	1.300 (33.02)	1.590 (40.39)	609-2202-ND	2.32	1.37	1.19	10022753-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2203-ND	2.42	1.39	1.24	10022753-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2204-ND	3.20	1.97	1.71	10022753-016LF
Pin Connectors								
3	2	0.100 (2.54)	0.390 (9.91)	609-2176-ND	1.87	1.04	.91	66226-002LF
	3	0.200 (5.08)	0.490 (12.45)	609-2177-ND	1.00	.49	.41	66226-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2178-ND	1.65	.90	.78	66226-004LF
	5	0.400 (10.16)	0.690 (17.53)	609-2179-ND	1.91	1.10	.95	66226-005LF
	6	0.500 (12.70)	0.790 (20.07)	609-2180-ND	2.21	1.23	1.08	66226-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2181-ND	2.13	1.25	1.09	66226-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2182-ND	2.08	1.23	1.06	66226-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2183-ND	2.40	1.38	1.23	66226-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2184-ND	2.65	1.59	1.39	66226-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2185-ND	2.74	1.63	1.46	66226-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2186-ND	2.86	1.76	1.58	66226-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2187-ND	3.07	1.89	1.64	66226-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2188-ND	3.31	2.03	1.77	66226-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2189-ND	3.47	2.15	1.89	66226-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2190-ND	3.61	2.23	1.96	66226-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2191-ND	3.31	2.03	1.77	66226-017LF
	20	1.800 (45.72)	2.090 (53.09)	609-2193-ND	4.39	2.73	2.47	66226-020LF
Tool								
Crimp Tool for Clincher Connectors				609-2214-ND	2482.73	—	—	HT270

Parlex
CORPORATION

0.5mm and 1mm Flat Flex Cable

Parlex custom jumper cables are available with flat conductors of desired length, stripped at both ends. The insulation has been stripped from one side only, exposing one surface of the conductors. Conductors have been pre-tinned for direct insertion into connectors.

Features:
• Superior Mechanical and Shielding Performance • Meets FCC, CIS PR/VDE effectivity requirements for inter connects • High flexibility rating of 10 million flex cycles on a .6" (15.24mm) radius with optimum design layout • Superior mechanical and abrasion resistance

Cable Characteristics:
• **Conductors:** Cu., tin/lead plated • **Current Rating:** 0.5A (0.5mm); 1.50A (1mm) • **Voltage Rating:** 90 volts • **Insulation:** polyester • **Temperature Rating:** -55°C ~ 105°C • **Dielectric Strength:** 2500 volts/mil • **U.L. Flame Rating:** VW-1 • **U.L. Styles:** 20890 & 20566

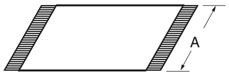

0.5mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
2" (5.08cm) Flat Flex Cable						
4	2.5	HFF-04U-02-ND	3.96	33.00	242.00	050R04-51B
5	3.0	HFF-05U-02-ND	3.96	33.00	242.00	050R05-51B
6	3.5	HFF-06U-02-ND	3.96	33.00	242.00	050R06-51B
7	4.0	HFF-07U-02-ND	3.96	33.00	242.00	050R07-51B
8	4.5	HFF-08U-02-ND	3.96	33.00	242.00	050R08-51B
10	5.5	HFF-10U-02-ND	3.96	33.00	242.00	050R10-51B
12	6.5	HFF-12U-02-ND	3.96	33.00	242.00	050R12-51B
13	7.0	HFF-13U-02-ND	3.96	33.00	242.00	050R13-51B
15	8.0	HFF-15U-02-ND	3.96	33.00	242.00	050R15-51B
18	9.5	HFF-18U-02-ND	3.96	33.00	242.00	050R18-51B
20	10.5	HFF-20U-02-ND	4.10	34.13	250.25	050R20-51B
21	11	HFF-21U-02-ND	4.10	34.13	250.25	050R21-51B
22	11.5	HFF-22U-02-ND	4.10	34.13	250.25	050R22-51B
24	12.5	HFF-24U-02-ND	4.14	34.50	253.00	050R24-51B
26	13.5	HFF-26U-02-ND	4.10	34.13	250.25	050R26-51B
30	15.5	HFF-30U-02-ND	4.23	35.25	258.50	050R30-51B
36	18.5	HFF-36U-02-ND	4.28	35.63	261.25	050R36-51B
40	20.5	HFF-40U-02-ND	4.32	36.00	264.00	050R40-51B
50	25.5	HFF-50U-02-ND	4.46	37.13	272.25	050R50-51B
3" (7.62cm) Flat Flex Cable						
4	2.5	HFF-04U-03-ND	4.46	37.13	272.25	050R04-76B
5	3.0	HFF-05U-03-ND	4.46	37.13	272.25	050R05-76B
6	3.5	HFF-06U-03-ND	4.46	37.13	272.25	050R06-76B
7	4.0	HFF-07U-03-ND	4.46	37.13	272.25	050R07-76B
8	4.5	HFF-08U-03-ND	4.46	37.13	272.25	050R08-76B
10	5.5	HFF-10U-03-ND	4.46	37.13	272.25	050R10-76B
12	6.5	HFF-12U-03-ND	4.46	37.13	272.25	050R12-76B
13	7.0	HFF-13U-03-ND	4.46	37.13	272.25	050R13-76B
15	8.0	HFF-15U-03-ND	4.46	37.13	272.25	050R15-76B
18	9.5	HFF-18U-03-ND	4.46	37.13	272.25	050R18-76B
20	10.5	HFF-20U-03-ND	4.46	37.13	272.25	050R20-76B
21	11	HFF-21U-03-ND	4.46	37.13	272.25	050R21-76B
22	11.5	HFF-22U-03-ND	4.46	37.13	272.25	050R22-76B
24	12.5	HFF-24U-03-ND	4.46	37.13	272.25	050R24-76B
26	13.5	HFF-26U-03-ND	4.46	37.13	272.25	050R26-76B
30	15.5	HFF-30U-03-ND	4.46	37.13	272.25	050R30-76B
36	18.5	HFF-36U-03-ND	4.46	37.13	272.25	050R36-76B
40	20.5	HFF-40U-03-ND	4.46	37.13	272.25	050R40-76B
50	25.5	HFF-50U-03-ND	4.46	37.13	272.25	050R50-76B
4" (10.16cm) Flat Flex Cable						
4	2.5	HFF-04U-04-ND	4.46	37.13	272.25	050R04-102B
5	3.0	HFF-05U-04-ND	4.46	37.13	272.25	050R05-102B
6	3.5	HFF-06U-04-ND	4.46	37.13	272.25	050R06-102B
7	4.0	HFF-07U-04-ND	4.46	37.13	272.25	050R07-102B
8	4.5	HFF-08U-04-ND	4.46	37.13	272.25	050R08-102B
10	5.5	HFF-10U-04-ND	4.46	37.13	272.25	050R10-102B
12	6.5	HFF-12U-04-ND	4.73	39.38	288.75	050R12-102B
13	7.0	HFF-13U-04-ND	4.73	39.38	288.75	050R13-102B
15	8.0	HFF-15U-04-ND	4.73	39.38	288.75	050R15-102B
18	9.5	HFF-18U-04-ND	4.73	39.38	288.75	050R18-102B
20	10.5	HFF-20U-04-ND	4.73	39.38	288.75	050R20-102B
21	11	HFF-21U-04-ND	4.73	39.38	288.75	050R21-102B
22	11.5	HFF-22U-04-ND	4.73	39.38	288.75	050R22-102B
24	12.5	HFF-24U-04-ND	4.82	40.13	294.25	050R24-102B
26	13.5	HFF-26U-04-ND	4.82	40.13	294.25	050R26-102B
30	15.5	HFF-30U-04-ND	4.95	41.25	302.50	050R30-102B
36	18.5	HFF-36U-04-ND	5.09	42.38	310.75	050R36-102B
40	20.5	HFF-40U-04-ND	5.22	43.50	319.00	050R40-102B
50	25.5	HFF-50U-04-ND	5.45	45.38	332.75	050R50-102B
5" (12.70cm) Flat Flex Cable						
4	2.5	HFF-04U-05-ND	5.45	45.38	332.75	050R04-127B
5	3.0	HFF-05U-05-ND	5.45	45.38	332.75	050R05-127B
6	3.5	HFF-06U-05-ND	5.45	45.38	332.75	050R06-127B
7	4.0	HFF-07U-05-ND	5.45	45.38	332.75	050R07-127B
8	4.5	HFF-08U-05-ND	5.45	45.38	332.75	050R08-127B
10	5.5	HFF-10U-05-ND	5.45	45.38	332.75	050R10-127B
12	6.5	HFF-12U-05-ND	5.45	45.38	332.75	050R12-127B
13	7.0	HFF-13U-05-ND	5.45	45.38	332.75	050R13-127B
15	8	HFF-15U-05-ND	5.45	45.38	332.75	050R15-127B
18	9.5	HFF-18U-05-ND	5.45	45.38	332.75	050R18-127B
20	10.5	HFF-20U-05-ND	5.45	45.38	332.75	050R20-127B
21	11	HFF-21U-05-ND	5.45	45.38	332.75	050R21-127B
22	11.5	HFF-22U-05-ND	5.45	45.38	332.75	050R22-127B
24	12.5	HFF-24U-05-ND	5.45	45.38	332.75	050R24-127B
26	13.5	HFF-26U-05-ND	5.45	45.38	332.75	050R26-127B
30	15.5	HFF-30U-05-ND	5.45	45.38	332.75	050R30-127B
36	18.5	HFF-36U-05-ND	5.45	45.38	332.75	050R36-127B
40	20.5	HFF-40U-05-ND	5.45	45.38	332.75	050R40-127B
50	25.5	HFF-50U-05-ND	5.45	45.38	332.75	050R50-127B
6" (15.24cm) Flat Flex Cable						
4	2.5	HFF-04U-06-ND	5.45	45.38	332.75	050R04-152B
5	3.0	HFF-05U-06-ND	5.45	45.38	332.75	050R05-152B
6	3.5	HFF-06U-06-ND	5.45	45.38	332.75	050R06-152B
7	4.0	HFF-07U-06-ND	5.45	45.38	332.75	050R07-152B
8	4.5	HFF-08U-06-ND	5.45	45.38	332.75	050R08-152B
10	5.5	HFF-10U-06-ND	5.45	45.38	332.75	050R10-152B
12	6.5	HFF-12U-06-ND	5.45	45.38	332.75	050R12-152B
13	7.0	HFF-13U-06-ND	5.45	45.38	332.75	050R13-152B
15	8.0	HFF-15U-06-ND	5.45	45.38	332.75	050R15-152B
18	9.5	HFF-18U-06-ND	5.45	45.38	332.75	050R18-152B
20	10.5	HFF-20U-06-ND	5.45	45.38	332.75	050R20-152B
21	11	HFF-21U-06-ND	5.45	45.38	332.75	050R21-152B
22	11.5	HFF-22U-06-ND	5.45	45.38	332.75	050R22-152B
24	12.5	HFF-24U-06-ND	5.72	47.63	349.25	050R24-152B
26	13.5	HFF-26U-06-ND	5.72	47.63	349.25	050R26-152B
30	15.5	HFF-30U-06-ND	5.94	49.50	363.00	050R30-152B
36	18.5	HFF-36U-06-ND	6.08	50.63	371.25	050R36-152B
40	20.5	HFF-40U-06-ND	6.21	51.75	379.50	050R40-152B
50	25.5	HFF-50U-06-ND	6.44	53.63	393.25	050R50-152B

1mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
2" (5.08cm) Flat Flex Cable						
5	6.15	HF05U-02-ND	2.25	18.75	137.50	100R05-51B
6	7.15	HF06U-02-ND	2.25	18.75	137.50	100R06-51B
7	8.15	HF07U-02-ND	2.25	18.75	137.50	100R07-51B
8	9.15	HF08U-02-ND	2.48	20.63	151.25	100R08-51B
10	11.15	HF10U-02-ND	2.70	22.50	165.00	100R10-51B
12	13.15	HF12U-02-ND	2.93	24.38	178.75	100R12-51B
14	15.15	HF14U-02-ND	3.15	26.25	192.50	100R14-51B
15	16.15	HF15U-02-ND	3.15	26.25	192.50	100R15-51B
16	17.15	HF16U-02-ND	3.38	28.13	206.25	100R16-51B
17	18.15	HF17U-02-ND	3.38	28.13	206.25	100R17-51B
18	19.15	HF18U-02-ND	3.60	30.00	220.00	100R18-51B
20	21.15	HF20U-02-ND	3.83	31.88	233.75	100R20-51B
22	23.15	HF22U-02-ND	4.05	33.75	247.50	100R22-51B
24	25.15	HF24U-02-ND	4.28	35.63	261.25	100R24-51B
26	27.15	HF26U-02-ND	4.50	37.50	275.00	100R26-51B
28	29.15	HF28U-02-ND	4.73	39.38	288.75	100R28-51B
30	31.15	HF30U-02-ND	4.95	41.25	302.50	100R30-51B
3" (7.62cm) Flat Flex Cable						
5	6.15	HF05U-03-ND	2.48	20.63	151.25	100R05-76B
6	7.15	HF06U-03-ND	2.48	20.63	151.25	100R06-76B
7	8.15	HF07U-03-ND	2.48	20.63	151.25	100R07-76B
8	9.15	HF08U-03-ND	2.70	22.50	165.00	100R08-76B
10	11.15	HF10U-03-ND	2.93	24.38	178.75	100R10-76B
12	13.15	HF12U-03-ND	3.15	26.25	192.50	100R12-76B
14	15.15	HF14U-03-ND	3.38	28.13	206.25	100R14-76B
15	16.15	HF15U-03-ND	3.38	28.13	206.25	100R15-76B
16	17.15	HF16U-03-ND	3.60	30.00	220.00	100R16-76B
17	18.15	HF17U-03-ND	3.60	30.00	220.00	100R17-76B
18	19.15	HF18U-03-ND	3.83	31.88	233.75	100R18-76B
20	21.15	HF20U-03-ND	4.05	33.75	247.50	100R20-76B
22	23.15	HF22U-03-ND	4.28	35.63	261.25	100R22-76B
24	25.15	HF24U-03-ND	4.50	37.50	275.00	100R24-76B
26	27.15	HF26U-03-ND	4.73	39.38	288.75	100R26-76B
28	29.15	HF28U-03-ND	4.95	41.25	302.50	100R28-76B
30	31.15	HF30U-03-ND	5.18	43.13	316.25	100R30-76B
4" (10.16cm) Flat Flex Cable						
5	6.15	HF05U-04-ND	2.70	22.50	165.00	100R05-102B
6	7.15	HF06U-04-ND	2.70	22.50	165.00	100R06-102B
7	8.15	HF07U-04-ND	2.70	22.50	165.00	100R07-102B
8	9.15	HF08U-04-ND	2.93	24.38	178.75	100R08-102B
10	11.15	HF10U-04-ND	3.15	26.25	192.50	100R10-102B
12	13.15	HF12U-04-ND	3.38	28.13	206.25	100R12-102B
14	15.15	HF14U-04-ND	3.60	30.00	220.00	100R14-102B
15	16.15	HF15U-04-ND	3.60	30.00	220.00	100R15-102B
16	17.15	HF16U-04-ND	3.83	31.88	233.75	100R16-102B
17	18.15	HF17U-04-ND	3.83	31.88	233.75	100R17-102B
18	19.15	HF18U-04-ND	4.05	33.75	247.50	100R18-102B
20	21.15	HF20U-04-ND	4.28	35.63	261.25	100R20-102B
22	23.15	HF22U-04-ND	4.50	37.50	275.00	100R22-102B
24	25.15	HF24U-04-ND	4.73	39.38	288.75	100R24-102B
26	27.15	HF26U-04-ND	4.95	41.25	302.50	100R26-102B
28	29.15	HF28U-04-ND	5.18	43.13	316.25	100R28-102B
30	31.15	HF30U-04-ND	5.40	45.00	330.00	100R30-102B
5" (12.70cm) Flat Flex Cable						
5	6.15	HF05U-05-ND	2.93	24.38	178.75	100R05-127B
6	7.15	HF06U-05-ND	2.93	24.38	178.75	100R06-127B
7	8.15	HF07U-05-ND	2.93	24.38	178.75	100R07-127B
8	9.15	HF08U-05-ND	3.15	26.25	192.50	100R08-127B
10	11.15	HF10U-05-ND	3.38	28.13	206.25	100R10-127B
12	13.15	HF12U-05-ND	3.60	30.00	220.00	100R12-127B
14	15.15	HF14U-05-ND	3.83	31.88	233.75	100R14-127B
15	16.15	HF15U-05-ND	3.83	31.88	233.75	100R15-127B
16	17.15	HF16U-05-ND	4.05	33.75	247.50	100R16-127B
17	18.15	HF17U-05-ND	4.05	33.75	247.50	100R17-127B
18	19.15	HF18U-05-ND	4.28	35.63	261.25	100R18-127B
20	21.15	HF20U-05-ND	4.50	37.50	275.00	100R20-127B
22	23.15	HF22U-05-ND	4.73	39.38	288.75	100R22-127B
24	25.15	HF24U-05-ND	4.95	41.25	302.50	100R24-127B
26	27.15	HF26U-05-ND	5.18	43.13	316.25	100R26-127B
28	29.15	HF28U-05-ND	5.40	45.00	330.00	100R28-127B
30	31.15	HF30U-05-ND	5.63	46.88	343.75	100R30-127B
6" (15.24cm) Flat Flex Cable						
5	6.15	HF05U-06-ND	3.15	26.25	192.50	100R05-152B
6	7.15	HF06U-06-ND	3.15	26.25	192.50	100R06-152B
7	8.15	HF07U-06-ND	3.15	26.25	192.50	100R07-152B
8	9.15	HF08U-06-ND	3.38	28.13	206.25	100R08-152B
10	11.15	HF10U-06-ND	3.60	30.00	220.00	100R10-152B
12	13.15	HF12U-06-ND	3.83	31.88	233.75	100R12-152B
14	15.15	HF14U-06-ND	4.05	33.75	247.50	100R14-152B
15	16.15	HF15U-06-ND	4.05	33.75	247.50	100R15-152B
16	17.15	HF16U-06-ND	4.28	35.63	261.25	100R16-152B
17	18.15	HF17U-06-ND	4.28	35.63	261.25	100R17-152B
18	19.15	HF18U-06-ND	4.50	37.50	275.00	100R18-152B
20	21.15	HF20U-06-ND	4.73	39.38	288.75	100R20-152B
22	23.15	HF22U-06-ND	4.95	41.25	302.50	100R22-152B
24	25.15	HF24U-06-ND	5.18	43.13	316.25	100R24-152B
26	27.15	HF26U-06-ND	5.40	45.00	330.00	100R26-152B
28	29.15	HF28U-06-ND	5.63	46.88	343.75	100R28-152B
30	31.15	HF30U-06-ND	5.85	48.75	357.50	100R30-152B
8" (20.32cm) Flat Flex Cable						
5	6.15	HF05U-08-ND	3.60	30.00	220.00	100R05-203B
6	7.15	HF06U-08-ND	3.60	30.00	220.00	100R06-203B
7	8.15	HF07U-08-ND	3.60	30.00	220.00	100R07-203B
8	9.15	HF08U-08-ND	3.83	31.88	233.75	100R08-203B
10	11.15	HF10U-08-ND	4.05	33.75	247.50	100R10-203B
12	13.15	HF12U-08-ND	4.28	35.63	261.25	100R12-203B
14	15.15	HF14U-08-ND	4.50	37.50	275.00	100R14-203B
15	16.15	HF15U-08-ND	4.50	37.50	275.00	100R15-203B
16	17.15	HF16U-08-ND	4.73	39.38	288.75	100R16-203B
17	18.15	HF17U-08-ND	4.73	39.38	288.75	100R17-203B
18	19.15	HF18U-08-ND	4.95	41.25	302.50	100R18-203B
20	21.15	HF20U-08-ND	5.18	43.13	316.25	100R20-203B
22	23.15	HF22U-08-ND	5.40	45.00	330.00	100R22-203B
24	25.15	HF24U-08-ND	5.63	46.88	343.75	100R24-203B
26	27.15	HF26U-08-ND	5.85	48.75	357.50	100R26-203B
28	29.15	HF28U-08-ND	6.08	50.63	371.25	100R28-203B
30	31.15	HF30U-08-ND	6.30	52.50	385.00	100R30-203B
10" (25.40cm) Flat Flex Cable						
5	6.15	HF05U-10-ND	4.05	33.75	247.50	100R05-254B
6	7.15	HF06U-10-ND	4.05	33.75	247.50	100R06-254B
7	8.15	HF07U-10-ND	4.05	33.75	247.50	100R07-254B
8	9.15	HF08U-10-ND	4.28	35.63	261.25	100R08-254B
10	11.15	HF10U-10-ND	4.50	37.50	275.00	100R10-254B
12	13.15	HF12U-10-ND	4.73	39.38	288.75	100R12-254B
14	15.15	HF14U-10-ND	4.95	41.25	302.50	100R14-254B
15	16.15	HF15U-10-ND	4.95	41.25	302.50	100R15-254B
16	17.15	HF16U-10-ND	5.18	43.13	316.25	100R16-254B
17	18.15	HF17U-10-ND	5.18	43.13	316.25	100R17-254B
18	19.15	HF18U-10-ND	5.40	45.00	330.00	100R18-254B
20	21.15	HF20U-10-ND	5.63	46.88	343.75	100R20-254B
22	23.15	HF22U-10-ND	5.85	48.75	357.50	100R22-254B
24	25.15	HF24U-10-ND	6.08	50.63	371.25	100R24-254B
26	27.15	HF26U-10-ND	6.30	52.50	385.00	100R26-254B
28	29.15	HF28U-10-ND	6.53	54.38	398.75	100R28-254B
30	31.15	HF30U-10-ND	6.75	56.25	412.50	100R30-254B
12" (30.48cm) Flat Flex Cable						
5	6.15	HF05U-12-ND	4.50	37.50	275.00	100R05-305B
6	7.15	HF06U-12-ND	4.50	37.50	275.00	100R06-305B
7	8.15	HF07U-12-ND	4.50	37.50	275.00	100R07-305B
8	9.15	HF08U-12-ND	4.73	39.38	288.75	100R08-305B
10	11.15	HF10U-12-ND	4.95	41.25	302.50	100R10-305B
12	13.15	HF12U-12-ND	5.18	43.13	316.25	100R12-305B
14	15.15	HF14U-12-ND	5.40	45.00	330.00	100R14-305B
15	16.15	HF15U-12-ND	5.40	45.00	330.00	100R15-305B
16	17.15	HF16U-12-ND	5.63	46.88	343.75	100R16-305B
17	18.15	HF17U-12-ND	5.63	46.88	343.75	100R17-305B
18	19.15	HF18U-12-ND	5.85	48.75	357.50	100R18-305B
20	21.15	HF20U-12-ND	6.08	50.63	371.25	100R20-305B
22	23.15	HF22U-12-ND	6.30	52.50	385.00	100R22-305B
24	25.15	HF24U-12-ND	6.53	54.38	398.75	100R24-305B
26	27.15	HF26U-12-ND	6.75	56.25	412.50	100R26-305B
28	29.15	HF28U-12-ND	6.98	58.13	426.25	100R28-305B
30	31.15	HF30U-12-ND	7.20	60.00	440.00	100R30-305B
18" (45.72cm) Flat Flex Cable						
5	6.15	HF05U-18-ND	5.85	48.75	357.50	100R05-457B
6	7.15	HF06U-18-ND	5.85	48.75	357.50	100R06-457B
7	8.15	HF07U-18-ND	5.85	48.75	357.50	100R07-457B
8	9.15	HF08U-18-ND	6.08	50.63	371.25	100R08-457B
10	11.15	HF10U-18-ND	6.30	52.50	385.00	100R10-457B
12	13.15	HF12U-18-ND	6.53	54.38	398.75	100R12-457B
14	15.15	HF14U-18-ND	6.75	56.25	412.50	100R14-457B
15	16.15	HF15U-18-ND	6.75	56.25	412.50	100R15-457B
16	17.15	HF16U-18-ND	6.98	58.13	426.25	100R16-457B
17	18.15	HF17U-18-ND	5.63	46.88	343.75	100R17-305B
18	19.15	HF18U-18-ND	7.20	60.00	440.00	100R18-457B
20	21.15	HF20U-18-ND	7.43	61.88	453.75	100R20-457B
22	23.15	HF22U-18-ND	7.65	63.75	467.50	100R22-457B
24	25.15	HF24U-18-ND	7.88	65.63	481.25	100R24-457B
26	27.15	HF26U-18-ND	8.10	67.50	495.00	100R26-457B
28	29.15	HF28U-18-ND	8.33	69.38	508.75	100R28-457B
30	31.15	HF30U-18-ND	8.55	71.25	522.50	100R30-457B

NEW! AMP FPC-FFC Connectors

Features: • Accepts industry standard cable • Housings UL 94V-0 material **Applications:** • Consumer Electronics • PC • Business Equipment • Any low-profile application **Product Advantages:** • Mechanical slider, piano, clip lock type actuators secure cable • Light weight and low-profile

Fig. 1

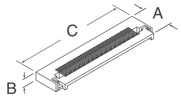

Fig. 2

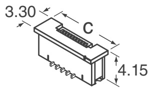

Fig. 3

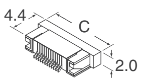

Fig. 4

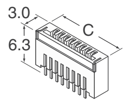

Fig. 5

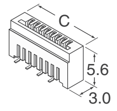

Fig. 6

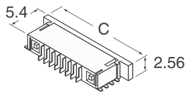

Fig. 7

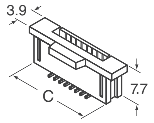

Fig. 8

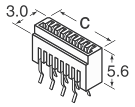

Fig. 9

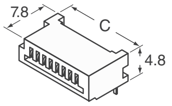

Fig. 10

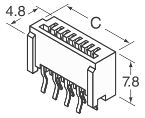

Fig.	No. of Pos.	Dimensions - mm			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AMP Part No.
		A	B	C		1	25	100		Qty.	Pricing	
FPC Connector – 0.3mm Narrow Flip Lock, SMD												
1	29	2.9	1.2	10.5	A100223CT-ND	1.50	1.25	1.00	A100223TR-ND	4,000	748.65/M	1-2013496-0
	41	2.9	1.2	14.1	A100224CT-ND	3.00	2.50	2.00	A100224TR-ND	4,000	1498.50/M	1-2013496-6
	45	2.9	1.2	15.3	A100225CT-ND	3.03	2.53	2.02	A100225TR-ND	4,000	1515.00/M	1-2013496-8
	25	3.2	0.9	8.8	A100211CT-ND	1.71	1.43	1.14	A100211TR-ND	4,000	855.00/M	1827827-8
	45	3.2	0.9	14.8	A100212CT-ND	3.03	2.53	2.02	A100212TR-ND	4,000	1515.00/M	1-1827827-8
	25	3.8	0.9	8.8	A100213CT-ND	2.28	1.90	1.52	A100213TR-ND	3,000	1140.00/M	2013928-8
	33	3.8	0.9	11.2	A100214CT-ND	2.58	2.15	1.72	A100214TR-ND	3,000	1290.00/M	1-2013928-2
	37	3.8	0.9	12.4	A100215CT-ND	2.58	2.15	1.72	A100215TR-ND	3,000	1290.00/M	1-2013928-4
	41	3.8	0.9	13.6	A100216CT-ND	3.00	2.50	2.00	A100216TR-ND	3,000	1498.50/M	1-2013928-6
	45	3.8	0.9	14.8	A100217CT-ND	3.03	2.53	2.02	A100217TR-ND	3,000	1515.00/M	1-2013928-8
	23	3.8	1.0	9.6	A100218CT-ND	.54	.45	.36	A100218TR-ND	4,000	269.10/M	1746237-7
	27	3.8	1.0	10.8	A100219CT-ND	1.07	.90	.72	A100219TR-ND	4,000	536.25/M	1746237-9
	33	3.8	1.0	12.6	A100220CT-ND	.76	.64	.51	A100220TR-ND	4,000	380.25/M	1-1746237-2
	35	3.8	1.0	13.2	A100221CT-ND	.77	.65	.52	A100221TR-ND	4,000	386.10/M	1-1746237-3
	39	3.8	1.0	14.4	A100222CT-ND	.80	.67	.54	A100222TR-ND	4,000	397.80/M	1-1746237-5
FPC/FFC Connector – 0.5mm, ZIF, Vertical, SMD												
2	8	—	—	9.7	A100231CT-ND	.79	.66	.53	A100231TR-ND	1,000	393.75	1734742-8
	10	—	—	10.7	A100232CT-ND	.90	.76	.61	A100232TR-ND	1,000	452.25	1-1734742-0
	12	—	—	11.7	A100233CT-ND	1.05	.88	.70	A100233TR-ND	1,000	525.00	1-1734742-2
	14	—	—	12.7	A100234CT-ND	1.35	1.13	.90	A100234TR-ND	1,000	675.00	1-1734742-4
	16	—	—	13.7	A100235CT-ND	1.65	1.38	1.10	A100235TR-ND	1,000	825.00	1-1734742-6
	18	—	—	14.7	A100236CT-ND	1.95	1.63	1.30	A100236TR-ND	1,000	975.00	1-1734742-8
	20	—	—	15.7	A100237CT-ND	2.25	1.88	1.50	A100237TR-ND	1,000	1125.00	2-1734742-0
	24	—	—	17.7	A100238CT-ND	2.85	2.38	1.90	A100238TR-ND	1,000	1425.00	2-1734742-4
	28	—	—	19.7	A100239CT-ND	3.45	2.88	2.30	A100239TR-ND	1,000	1725.00	2-1734742-8
	30	—	—	20.7	A100240CT-ND	3.75	3.13	2.50	A100240TR-ND	1,000	1875.00	3-1734742-0
	36	—	—	23.7	A100241CT-ND	4.74	3.96	3.17	A100241TR-ND	1,000	2370.23	3-1734742-6
	40	—	—	25.7	A100242CT-ND	2.40	2.01	1.61	A100242TR-ND	1,000	1201.20	4-1734742-0
FPC Connector – 0.5mm, Right Angle, Bottom Contact, SMD												
3	8	—	—	9.43	A100281CT-ND	.51	.43	.35	A100281TR-ND	2,000	257.40/M	1734592-8
	10	—	—	10.43	A100282CT-ND	1.00	.84	.67	A100282TR-ND	2,000	500.18/M	1-1734592-0
	12	—	—	11.43	A100283CT-ND	.56	.47	.38	A100283TR-ND	2,000	280.80/M	1-1734592-2
	14	—	—	12.43	A100284CT-ND	.57	.48	.39	A100284TR-ND	2,000	287.24/M	1-1734592-4
	16	—	—	13.43	A100285CT-ND	.62	.52	.42	A100285TR-ND	2,000	308.88/M	1-1734592-6
	18	—	—	14.43	A100286CT-ND	.72	.60	.48	A100286TR-ND	2,000	359.78/M	1-1734592-8
	20	—	—	15.43	A100287CT-ND	.71	.59	.48	A100287TR-ND	2,000	353.93/M	2-1734592-0
	24	—	—	17.43	A100288CT-ND	.86	.72	.58	A100288TR-ND	2,000	429.98/M	2-1734592-4
	28	—	—	19.43	A100289CT-ND	4.56	3.80	3.04	A100289TR-ND	2,000	2280.00/M	2-1734592-8
	30	—	—	20.43	A100290CT-ND	1.11	.93	.75	A100290TR-ND	2,000	555.75/M	3-1734592-0
	36	—	—	23.43	A100291CT-ND	1.05	.88	.70	A100291TR-ND	2,000	523.58/M	3-1734592-6
	40	—	—	25.43	A100226CT-ND	.83	.70	.56	A100226TR-ND	2,000	415.35/M	4-1734592-0
	50	—	—	30.43	A100227CT-ND	1.01	.84	.68	A100227TR-ND	2,000	503.10/M	5-1734592-0
FPC Connector – 0.5mm, Right Angle, Top Contact, SMD												
3	8	—	—	9.43	A100292CT-ND	.55	.46	.37	A100292TR-ND	2,000	274.95/M	1734839-8
	10	—	—	10.43	A100293CT-ND	.63	.53	.42	A100293TR-ND	2,000	314.73/M	1-1734839-0
	12	—	—	11.43	A100294CT-ND	.96	.81	.65	A100294TR-ND	2,000	480.87/M	1-1734839-2
	14	—	—	12.43	A100295CT-ND	1.11	.93	.75	A100295TR-ND	2,000	555.75/M	1-1734839-4
	16	—	—	13.43	A100296CT-ND	1.35	1.13	.90	A100296TR-ND	2,000	672.75/M	1-1734839-6
	18	—	—	14.43	A100297CT-ND	1.67	1.40	1.12	A100297TR-ND	2,000	836.55/M	1-1734839-8
	20	—	—	15.43	A100298CT-ND	1.69	1.41	1.13	A100298TR-ND	2,000	845.33/M	2-1734839-0
	24	—	—	17.43	A100299CT-ND	2.78	2.32	1.86	A100299TR-ND	2,000	1389.38/M	2-1734839-4
	28	—	—	19.43	A100300CT-ND	.74	.62	.50	A100300TR-ND	2,000	371.48/M	2-1734839-8
	30	—	—	20.43	A100301CT-ND	1.99	1.66	1.33	A100301TR-ND	2,000	992.75/M	3-1734839-0
	36	—	—	23.43	A100228CT-ND	2.09	1.75	1.40	A100228TR-ND	2,000	1047.15/M	3-1734839-6
	40	—	—	25.43	A100229CT-ND	.86	.72	.58	A100229TR-ND	2,000	428.81/M	4-1734839-0
	50	—	—	30.43	A100230CT-ND	2.45	2.04	1.64	A100230TR-ND	2,000	1222.65/M	5-1734839-0

§ Bulk

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! AMP FPC-FFC Connectors *(Cont.)*

Fig.	No. of Pos.	Dimensions - mm			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AMP Part No.
		A	B	C		1	25	100		Qty.	Pricing	
FFC Connector – 1.0mm, Right Angle (Non-ZIF), SMD												
4	8	—	—	11.0	A100245CT-ND	.31	.26	.21	A100245TR-ND	1,500	152.63/M	84981-8
	10	—	—	13.0	A100308CT-ND	.12	.10	.08	A100308TR-ND	1,500	58.50/M	1-84981-0
	14	—	—	17.0	A100309CT-ND	1.31	1.09	.87	A100309TR-ND	1,500	652.50/M	1-84981-4
	16	—	—	19.0	A100310CT-ND	.75	.63	.50	A100310TR-ND	1,500	375.00/M	1-84981-6
	18	—	—	21.0	A100311CT-ND	1.18	.99	.79	A100311TR-ND	1,500	588.30/M	1-84981-8
	20	—	—	23.0	A100312CT-ND	1.22	1.02	.82	A100312TR-ND	1,500	610.50/M	2-84981-0
FFC Connector – 1.0mm, Vertical (Non-ZIF), SMD												
5	8	—	—	10.0	A100247CT-ND	.33	.28	.23	A100247TR-ND	800	133.20	84982-8
	10	—	—	12.0	A100313CT-ND	1.28	1.07	.85	A100313TR-ND	800	510.00	1-84982-0
	16	—	—	18.0	A100314CT-ND	.76	.64	.51	A100314TR-ND	800	304.14	1-84982-6
	18	—	—	20.0	A100315CT-ND	1.24	1.04	.83	A100315TR-ND	800	497.28	1-84982-8
	20	—	—	22.0	A100316CT-ND	.47	.39	.32	A100316TR-ND	800	187.20	2-84982-0
	28	—	—	30.0	A100317CT-ND	2.15	1.79	1.43	A100317TR-ND	800	858.00	2-84982-8
	30	—	—	32.0	A100248CT-ND	1.30	1.09	.87	A100248TR-ND	800	521.82	3-84982-0
FPC Connector – 1.0mm, Right Angle, Horizontal, Bottom Contact, SMD												
6	8	—	—	15.92	A100249CT-ND	.70	.59	.47	A100249TR-ND	1,500	351.76/M	84952-8
	10	—	—	17.92	A100250CT-ND	.80	.67	.53	A100250TR-ND	1,500	397.50/M	1-84952-0
	12	—	—	19.92	A100251CT-ND	1.38	1.15	.92	A100251TR-ND	1,200	690.00/M	1-84952-2
	14	—	—	21.92	A100318CT-ND	.88	.74	.59	A100318TR-ND	1,200	438.75/M	1-84952-4
	16	—	—	23.92	A100252CT-ND	1.25	1.05	.84	A100252TR-ND	1,200	625.95/M	1-84952-6
	18	—	—	25.92	A100253CT-ND	.98	.82	.66	A100253TR-ND	1,200	488.46/M	1-84952-8
	20	—	—	27.92	A100319CT-ND	1.13	.95	.76	A100319TR-ND	1,200	564.53/M	2-84952-0
	24	—	—	31.92	A100254CT-ND	.88	.74	.59	A100254TR-ND	1,200	438.75/M	2-84952-4
	28	—	—	35.92	A100255CT-ND	2.93	2.44	1.95	A100255TR-ND	1,200	1462.50/M	2-84952-8
	30	—	—	37.92	A100256CT-ND	1.46	1.22	.98	A100256TR-ND	1,200	731.25/M	3-84952-0
FPC Connector – 1.0mm, Right Angle, Horizontal, Top Contact, SMD												
6	8	—	—	15.92	A100257CT-ND	.77	.65	.52	A100257TR-ND	1,500	386.26/M	84953-8
	10	—	—	17.92	A100258CT-ND	.93	.78	.62	A100258TR-ND	1,500	465.00/M	1-84953-0
	12	—	—	19.92	A100320CT-ND	.84	.71	.57	A100320TR-ND	1,200	421.50/M	1-84953-2
	14	—	—	21.92	A100321CT-ND	1.26	1.06	.85	A100321TR-ND	1,200	630.83/M	1-84953-4
	16	—	—	23.92	A100322CT-ND	1.46	1.22	.98	A100322TR-ND	1,200	729.30/M	1-84953-6
	18	—	—	25.92	A100259CT-ND	1.84	1.54	1.23	A100259TR-ND	1,200	921.38/M	1-84953-8
	20	—	—	27.92	A100260CT-ND	1.37	1.14	.91	A100260TR-ND	1,200	682.50/M	2-84953-0
	24	—	—	31.92	A100261CT-ND	1.37	1.14	.91	A100261TR-ND	1,200	682.50/M	2-84953-4
	28	—	—	35.92	A100262CT-ND	2.93	2.44	1.95	A100262TR-ND	1,200	1462.50/M	2-84953-8
	30	—	—	37.92	A100263CT-ND	.81	.68	.54	A100263TR-ND	1,200	404.24/M	3-84953-0
FPC Connector – 1.0mm, ZIF, Vertical, SMD												
7	8	—	—	13.6	A100264CT-ND	1.34	1.12	.89	A100264TR-ND	1,000	667.50	1734248-8
	10	—	—	15.6	A100265CT-ND	1.86	1.55	1.24	A100265TR-ND	1,000	928.16	1-1734248-0
	12	—	—	17.6	A100266CT-ND	1.76	1.47	1.18	A100266TR-ND	1,000	878.39	1-1734248-2
	14	—	—	19.6	A100267CT-ND	2.32	1.94	1.55	A100267TR-ND	1,000	1160.45	1-1734248-4
	16	—	—	21.6	A100323CT-ND	2.30	1.92	1.54	A100323TR-ND	1,000	1148.37	1-1734248-6
	18	—	—	23.6	A100268CT-ND	2.03	1.70	1.36	A100268TR-ND	1,000	1015.20	1-1734248-8
	20	—	—	25.6	A100269CT-ND	2.58	2.15	1.72	A100269TR-ND	1,000	1289.21	2-1734248-0
	24	—	—	29.6	A100270CT-ND	2.97	2.48	1.98	A100270TR-ND	1,000	1484.46	2-1734248-4
	28	—	—	33.6	A100271CT-ND	2.37	1.98	1.58	A100271TR-ND	1,000	1185.00	2-1734248-8
	30	—	—	35.6	A100272CT-ND	1.55	1.30	1.04	A100272TR-ND	1,000	777.00	3-1734248-0
	36	—	—	41.6	A100273CT-ND	2.72	2.27	1.81	A100273TR-ND	1,000	1357.50	3-1734248-6
	40	—	—	45.6	A100274CT-ND	5.47	4.56	3.65	A100274TR-ND	1,000	2732.73	4-1734248-0
FFC Connector – 1.0mm, DIP, Vertical, Through Hole												
8	8	—	—	10.00	A100243-ND§	.62	.52	.42	—	—	—	84984-8
	10	—	—	12.00	A100302-ND§	.77	.65	.52	—	—	—	1-84984-0
	12	—	—	14.00	A100303-ND§	1.25	1.05	.84	—	—	—	1-84984-2
	14	—	—	16.00	A100304-ND§	1.19	1.00	.80	—	—	—	1-84984-4
	16	—	—	18.00	A100305-ND§	.89	.75	.60	—	—	—	1-84984-6
	20	—	—	22.00	A100306-ND§	1.27	1.06	.85	—	—	—	2-84984-0
	24	—	—	26.00	A100307-ND§	1.39	1.17	.93	—	—	—	2-84984-4
	30	—	—	32.00	A100244-ND§	.72	.60	.48	—	—	—	3-84984-0
FFC Connector – 1.25mm, Right Angle, Through Hole												
9	8	—	—	13.75	A100275-ND§	.14	.12	.10	—	—	—	84533-8
	10	—	—	16.25	A100324-ND§	.75	.63	.51	—	—	—	1-84533-0
	12	—	—	18.75	A100325-ND§	.40	.33	.27	—	—	—	1-84533-2
	14	—	—	21.25	A100326-ND§	.19	.17	.13	—	—	—	1-84533-4
	16	—	—	23.75	A100327-ND§	1.25	1.05	.84	—	—	—	1-84533-6
	20	—	—	28.75	A100328-ND§	.28	.24	.19	—	—	—	2-84533-0
	24	—	—	33.75	A100329-ND§	1.60	1.34	1.07	—	—	—	2-84533-4
	30	—	—	41.25	A100276-ND§	1.76	1.48	1.18	—	—	—	3-84533-0
	40	—	—	53.75	A100277-ND§	2.08	1.73	1.39	—	—	—	4-84533-0
FFC Connector – 1.25mm, Vertical, Through Hole												
10	8	—	—	13.75	A100278-ND§	.56	.47	.37	—	—	—	84534-8
	10	—	—	16.25	A100330-ND§	.75	.63	.51	—	—	—	1-84534-0
	12	—	—	18.75	A100331-ND§	.14	.12	.10	—	—	—	1-84534-2
	14	—	—	21.25	A100332-ND§	.69	.58	.46	—	—	—	1-84534-4
	16	—	—	23.75	A100333-ND§	.17	.14	.12	—	—	—	1-84534-6
	20	—	—	28.75	A100334-ND§	.44	.37	.30	—	—	—	2-84534-0
	24	—	—	33.75	A100335-ND§	1.68	1.40	1.12	—	—	—	2-84534-4
	30	—	—	41.25	A100279-ND§	.37	.31	.25	—	—	—	3-84534-0
	40	—	—	53.75	A100280-ND§	2.18	1.82	1.46	—	—	—	4-84534-0

§ Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

JST

FLZ Series 0.5mm FFC/FPC Connectors

This extremely small 0.5mm (.020") pitch connector with a height of only 2.0mm (.079") above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology. **Features:** • Zero insertion force mechanism increases wear resistance and extends the connector's mating life • Heat resistant design suitable for surface mounting to allow for reflow soldering • In-line surface mount tails for easy inspection • Two types of connections: normal or reverse configurations; the FFC/FPC is positioned with its mating surfaces facing upward for the normal configured connector, while the reverse configuration requires that the FFC/FPC be positioned with its mating surfaces facing down giving the engineer greater freedom in designing the circuitry. **Specifications:** • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Withstanding Voltage: 200V AC/minute

Fig. 1

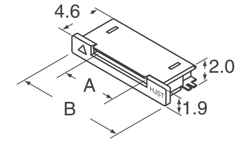

Fig. 2

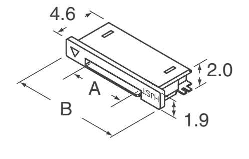

Fig. 3

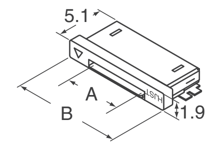

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel‡ Pricing 2,000	JST Part No.
				Normal Type					
1	6	2.5	8.9	455-1960-1-ND	.90	8.29	69.05	458.46/M	06FLZ-SM2-TB(LF)(SN)
	8	3.5	9.9	455-1964-1-ND	.96	8.86	73.82	490.17/M	08FLZ-SM2-TB(LF)(SN)
	9	4.0	10.4	455-1966-1-ND	1.11	10.26	85.47	567.52/M	09FLZ-SM2-TB(LF)(SN)
	12	5.5	11.9	455-1968-1-ND	1.21	11.20	93.32	619.66/M	12FLZ-SM2-TB(LF)(SN)
	14	6.5	12.9	455-1970-1-ND	1.25	11.58	96.53	640.98/M	14FLZ-SM2-TB(LF)(SN)
	16	7.5	13.9	455-1972-1-ND	1.36	12.54	104.52	693.98/M	16FLZ-SM2-TB(LF)(SN)
	20	9.5	15.9	455-1974-1-ND	1.43	13.18	109.80	729.06/M	20FLZ-SM2-TB(LF)(SN)(P)
	24	11.5	17.9	455-1977-1-ND	1.64	15.18	126.50	839.98/M	24FLZ-SM2-TB(LF)(SN)
	27	13.0	19.4	455-1981-1-ND	1.74	16.04	133.64	887.36/M	27FLZ-SM2-TB(LF)(SN)
	28	13.5	19.9	455-1983-1-ND	1.75	16.15	134.56	893.50/M	28FLZ-SM2-TB(LF)(SN)
				Reverse Type					
2	6	2.5	8.9	455-1959-1-ND	.89	8.25	68.72	456.30/M	06FLZ-RSM2-TB(LF)(SN)(P)
	7	3.0	9.4	455-1961-1-ND	.92	8.46	70.48	467.96/M	07FLZ-RSM2-TB(LF)(SN)
	8	3.5	9.9	455-1963-1-ND	.95	8.80	73.36	487.13/M	08FLZ-RSM2-TB(LF)(SN)
	12	5.5	11.9	455-1967-1-ND	1.21	11.13	92.74	615.76/M	12FLZ-RSM2-TB(LF)(SN)
	14	6.5	12.9	455-1969-1-ND	1.25	11.58	96.53	640.98/M	14FLZ-RSM2-TB(LF)(SN)
	16	7.5	13.9	455-1971-1-ND	1.33	12.31	102.60	681.25/M	16FLZ-RSM2-TB(LF)(SN)
	20	9.5	15.9	455-1973-1-ND	1.41	13.02	108.47	720.21/M	20FLZ-RSM2-TB(LF)(SN)
	22	10.5	16.9	455-1975-1-ND	1.49	13.72	114.34	759.19/M	22FLZ-RSM2-TB(LF)(SN)
	24	11.5	17.9	455-1976-1-ND	1.54	14.26	118.79	788.78/M	24FLZ-RSM2-TB(LF)(SN)
	26	12.5	18.9	455-1978-1-ND	1.70	15.68	130.63	867.37/M	26FLZ-RSM2-TB(LF)(SN)
	27	13.0	19.4	455-1980-1-ND	1.73	15.95	132.92	882.56/M	27FLZ-RSM2-TB(LF)(SN)
	28	13.5	19.9	455-1982-1-ND	1.74	16.07	133.90	889.10/M	28FLZ-RSM2-TB(LF)(SN)(P)
	30	14.5	20.9	455-1984-1-ND	1.84	17.03	141.88	942.10/M	30FLZ-RSM2-TB(LF)(SN)
				Inner-Lock Reverse Type					
3	34	16.5	23.6	455-1987-1-ND	2.09	19.32	160.99	1068.98/M	34FLZ-RSM2-R-TB(LF)(SN)
	40	19.5	26.6	455-1988-1-ND	2.31	21.30	177.49	1178.50/M	40FLZ-RSM2-R-TB(LF)(SN)

‡ For Tape and Reel part number, change 1-ND to 2-ND.

FMN Series 1.0mm FFC/FPC Connectors

Features: • Height: 3.0mm (.118") side-entry type; 5.1mm (.201") top-entry type • There are no slides or levers to operate on the reduced insertion force connector. It requires 1/2 the insertion force of JST's conventional FFC connector, but retains stable contact performance when subjected to environmental and mechanical stresses. • SMT type connectors have heat-resistant housings so solder reflow is possible. They also have solder tabs for extra strength. **Specifications:** • Current Rating: 0.5A DC • Voltage Rating: 50V DC • Temperature Range: -25°C ~ 85°C • Applicable PC Board Thickness: 1.6mm (.063)

Fig. 1

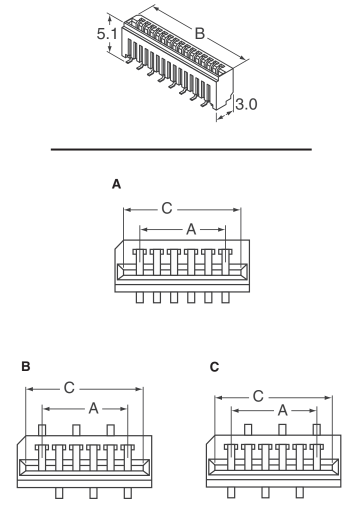

Fig. 2

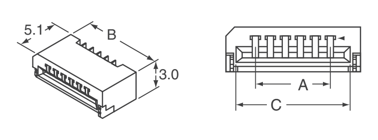

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	JST Part No.
					Top Entry — Single Row						
1A	4	3.0	6.0	5.0	455-2194-1-ND	.41	3.74	31.18	1,000	207.02	04FMN-BMT-A-TF(LF)(SN)
	8	7.0	10.0	9.0	455-1925-1-ND	.55	5.06	42.18	1,000	280.04	08FMN-BMT-A-TF(LF)(SN)
	10	9.0	12.0	11.0	455-1930-1-ND	.61	5.65	47.07	1,000	312.54	10FMN-BMT-A-TF(LF)(SN)
	12	11.0	14.0	13.0	455-1935-1-ND	.69	6.40	53.35	1,000	354.24	12FMN-BMT-A-TF(LF)(SN)
	18	17.0	20.0	19.0	455-1946-1-ND	.90	8.35	69.55	1,000	461.78	18FMN-BMT-A-TF(LF)(SN)
	22	21.0	24.0	23.0	455-1952-1-ND	1.09	10.10	84.16	1,000	558.84	22FMN-BMT-A-TF(LF)(SN)
	30	29.0	32.0	31.0	455-1957-1-ND	1.37	12.64	105.31	1,000	699.24	30FMN-BMT-A-TF(LF)(SN)
					Top Entry — Staggered						
1B	4	3.0	6.0	5.0	455-1918-1-ND	.41	3.74	31.18	1,000	207.02	04FMN-BMTTN-A-TF(LF)(SN)
	5	4.0	7.0	6.0	455-1920-1-ND	.44	4.04	33.66	1,000	223.47	05FMN-BMTTN-A-TF(LF)(SN)
	6	5.0	8.0	7.0	455-1922-1-ND	.47	4.33	36.07	1,000	239.50	06FMN-BMTTN-A-TF(LF)(SN)
	9	8.0	11.0	10.0	455-1928-1-ND	.58	5.35	44.59	1,000	296.08	09FMN-BMTTN-A-TF(LF)(SN)
	10	9.0	12.0	11.0	455-1932-1-ND	.61	5.65	47.07	1,000	312.54	10FMN-BMTTN-A-TF(LF)(SN)
	13	12.0	15.0	14.0	455-1938-1-ND	.72	6.66	55.50	1,000	368.50	13FMN-BMTTN-A-TF(LF)(SN)
	25	24.0	27.0	26.0	455-1954-1-ND	1.21	11.16	92.99	1,000	617.42	25FMN-BMTTN-A-TF(LF)(SN)
					Top Entry — Staggered (Reverse)						
1C	12	11.0	14.0	13.0	455-1936-1-ND	.69	6.40	53.35	1,000	354.24	12FMN-BMTTR-A-TB(LF)(SN)
	14	13.0	16.0	15.0	455-1941-1-ND	.75	6.92	57.64	1,000	382.73	14FMN-BMTTR-A-TB(LF)(SN)
	16	15.0	18.0	17.0	455-1944-1-ND	.84	7.75	64.59	2,000	428.86/M	16FMN-BMTTR-A-TB(LF)(SN)
	20	19.0	22.0	21.0	455-1950-1-ND	.99	9.18	76.49	1,000	507.91	20FMN-BMTTR-A-TB(LF)(SN)
					Side Entry						
2	4	3.0	7.0	5.0	455-1919-1-ND	.41	3.74	31.18	2,000	207.02/M	04FMN-SMT-A-TF(LF)(SN)
	6	5.0	9.0	7.0	455-1923-1-ND	.47	4.33	36.07	2,000	239.51/M	06FMN-SMT-A-TF(LF)(SN)
	7	6.0	10.0	8.0	455-1924-1-ND	.50	4.63	38.55	2,000	255.97/M	07FMN-SMT-A-TF(LF)(SN)
	8	7.0	11.0	9.0	455-1927-1-ND	.55	5.06	42.18	2,000	280.04/M	08FMN-SMT-A-TF(LF)(SN)
	10	9.0	13.0	11.0	455-1934-1-ND	.61	5.65	47.07	2,000	312.55/M	10FMN-SMT-A-TF(LF)(SN)
	12	11.0	15.0	13.0	455-1937-1-ND	.69	6.40	53.35	2,000	354.25/M	12FMN-SMT-A-TF(LF)(SN)
	13	12.0	16.0	14.0	455-1939-1-ND	.72	6.66	55.50	2,000	295.25/M	13FMN-SMT-A-TF(LF)(SN)
	14	13.0	17.0	15.0	455-1942-1-ND	.75	6.92	57.64	2,000	382.73/M	14FMN-SMT-A-TF(LF)(SN)
	16	15.0	19.0	17.0	455-1945-1-ND	.84	7.75	64.59	2,000	428.86/M	16FMN-SMT-A-TF(LF)(SN)
	20	19.0	23.0	21.0	455-1951-1-ND	.99	9.18	76.49	2,000	507.91/M	20FMN-SMT-A-TF(LF)(SN)
	28	27.0	31.0	29.0	455-1956-1-ND	1.31	12.10	100.87	2,000	669.78/M	28FMN-SMT-A-TF(LF)(SN)

‡ For Tape and Reel part number, change 1-ND to 2-ND.

High Density FFC/FPC Connectors

FH29 Series (0.2mm Pitch)

Features: • Space saving 0.2mm of contact spacing FPC connectors • Easy mounting in double-sided lead design: 0.4mm mounting lead pitch • FPC alignment mechanism enables high connection reliability • Suitable for FPC with mating area thickness of 0.2mm • The flip-lock (one-touch rotating system) Zero Insertion Force (ZIF) structure allows easy and reliable FPC connection

Applications: Mobile phones, LCDs, Digital video cameras (DVC), Digital cameras (DSC), Portable terminals (PDA), Camera modules, Portable equipment

Specifications: • Current Rating: 0.25A • Operating Temperature Range: -55°C ~ 85°C

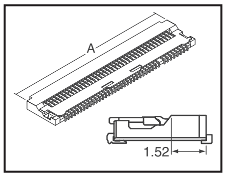

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel‡ Pricing 5,000	Hirose Part No.
34	8.62	HFD034CT-ND	3.86	3.00	2.40	—	FH29-34S-0.2SHW(05)
44	10.62	HFD044CT-ND	4.09	3.18	2.54	—	FH29-44S-0.2SHW(05)
50	11.82	HFD050CT-ND	3.45	2.68	2.15	1488.00/M	FH29-50S-0.2SHW(05)
70	15.82	HFD070CT-ND	4.03	3.13	2.51	—	FH29-70S-0.2SHW(05)
80	17.82	HFD080CT-ND	4.21	3.27	2.61	1813.00/M	FH29-80S-0.2SHW(05)
90	19.82	HFD090CT-ND	5.57	4.32	3.46	—	FH29-90S-0.2SHW(05)
120	25.82	HFD120CT-ND	5.66	4.39	3.51	—	FH29-120S-0.2SHW(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH16, FH16H, FH16M and FH16P Series (0.3mm/0.4mm/0.5mm Pitch)

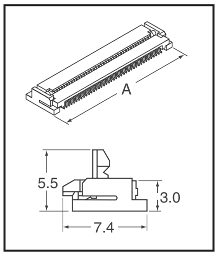

Features: The FH16 Series is a fine pitch, Zero Insertion Force (ZIF), right angle, bottom contact connector compatible with Flat Flex Cables (FFC) or flexible printed circuits (FPC) with a pitch of 0.3mm, 0.4mm and 0.5mm. A recommended thickness of 0.295mm for single-sided or 0.306mm for double-sided. The flip-lock (one-touch rotating type) ZIF structure secures the FFC/FPC connection with a single and light force. This design helps simplify assembly and repair work. When locking the FFC/FPC, the audible click will assure of a steady FFC/FPC connection resulting in improved customer service. Embossed tape packaging allows for automatic placement onto the PCB.

Applications: Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, PDP (Plasma Display), HDD or other device

Specifications: • Operating Temperature Range: -40°C ~ 70°C • Insulation Resistance: 500MΩ minimum • Contact Resistance: 150mΩ maximum (including FFC/FPC conductor resistance)

Materials: • Insulators: Polyamide and LCP - Beige, PPS - Deep Brown; UL94V-0 • Contacts: Phosphor Bronze - Gold plating

Ratings:			
Pitch	0.3mm	0.4mm	0.5mm
Current Rating	0.15A	0.3A	0.4A
Voltage Rating	30 VAC	50 VAC	60 VAC

No. of Pos.	Contact Pitch (mm)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 1,000	Hirose Part No.
50	0.5	29.4	HFP150CT-ND	6.03	5.00	3.75	2704.00	FH16H-50S-0.5SHW(05)
60	0.3	21.9	HFP160CT-ND	6.47	5.36	4.02	2899.00	FH16-60S-0.3SHW(05)
64	0.5	36.0	HFP164CT-ND	6.61	5.48	4.11	2964.00	FH16P-64S-0.5SHW(05)
80	0.3	27.9	HFP180CT-ND	6.60	5.59	4.20	3239.00	FH16-80S-0.3SHW(05)
90	0.3	30.9	HFP190CT-ND	7.02	5.94	4.46	3443.00	FH16-90S-0.3SHW(05)
96	0.4	42.5	HFP196CT-ND	7.25	6.14	4.61	3557.00	FH16M-96S-0.4SHW(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH23 Series (0.3mm Pitch) Flexible Printed Circuit Connectors

Features: • Provided with a flexible printed circuit (FPC) temporary hold mechanism, thus preventing the shift of the FPC and connector after FPC insertion • Only slight force is required to lock the flip-lock (one-touch rotating system) Low Insertion Force (LIF) structure

Applications: Mobile phones, LCD, digital video camera (DVC), digital cameras (DSC), portable terminals (PDA), camera modules, portable equipment

Specifications: • Current Rating: 0.3A DC • Voltage Rating: 30VAC • Operating Temperature Range: -55°C ~ 85°C • Insulation Resistance: 50MΩ minimum @ 100VDC • Contact Resistance: 100mΩ maximum @ 90VAC/one minute (Including FPC/FFC conductor resistance)

Materials: • Insulators: LCP, Beige; LCP, black; UL94V-0 • Contacts: Phosphor bronze, tin plating

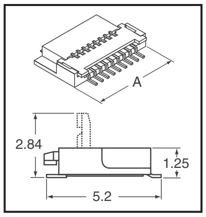

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Tape & Reel‡ Pricing 2,500	Hirose Part No.
Leadless Type Termination — RoHS Compliant								
15	7.0	HFQ515CT-ND†	2.18	1.68	1.34	1.12	854.00/M	FH23-15S-0.3SHAW(05)
17	7.6	HFQ517CT-ND†	2.24	1.73	1.38	1.15	880.00/M	FH23-17S-0.3SHAW(05)
21	8.8	HFQ621CT-ND†	2.50	1.93	1.54	1.28	982.00/M	FH23-21S-0.3SHAW(05)
25	10	HFQ625CT-ND†	2.67	2.05	1.64	1.37	1046.00/M	FH23-25S-0.3SHAW(05)
27	10.6	HFQ527CT-ND†	2.73	2.10	1.68	1.40	1071.00/M	FH23-27S-0.3SHAW(05)
31	11.8	HFQ531CT-ND†	2.86	2.20	1.76	1.47	1122.00/M	FH23-31S-0.3SHAW(05)
33	12.4	HFQ533CT-ND†	3.09	2.38	1.90	1.58	1211.00/M	FH23-33S-0.3SHAW(05)
39	14.2	HFQ539CT-ND†	3.02	2.34	1.88	1.51	1326.00/M	FH23-39S-0.3SHAW(05)
45	16.0	HFQ545CT-ND†	3.31	2.57	2.06	1.66	1454.00/M	FH23-45S-0.3SHAW(05)
51	17.8	HFQ551CT-ND†	3.15	2.43	1.94	1.62	1237.00/M	FH23-51S-0.3SHAW(06)
61	20.8	HFQ561CT-ND†	4.09	3.18	2.54	2.05	1798.00/M	FH23-61S-0.3SHAW(05)
Lead Type Termination								
15	7	HFQ615CT-ND†◆	2.08	1.60	1.28	1.07	854.00/M	FH23-15S-0.3SHW(05)
17	7.6	HFQ417CT-ND†◆	2.24	1.73	1.38	1.15	880.00/M	FH23-17S-0.3SHW(05)
21	8.8	HFQ221CT-ND†◆	2.50	1.93	1.54	1.28	982.00/M	FH23-21S-0.3SHW(05)
25	10.0	HFQ425CT-ND†◆	2.67	2.05	1.64	1.37	1046.00/M	FH23-25S-0.3SHW(05)
27	10.6	HFQ427CT-ND†◆	2.73	2.10	1.68	1.40	1071.00/M	FH23-27S-0.3SHW(05)
33	12.4	HFQ433CT-ND†◆	3.09	2.38	1.90	1.58	1211.00/M	FH23-33S-0.3SHW(05)
39	14.2	HFQ139CT-ND	2.76	2.13	1.70	1.42	—	FH23-39S-0.3SHW(51)
39	14.2	HFQ439CT-ND†◆	3.02	2.34	1.88	1.51	1326.00/M	FH23-39S-0.3SHW(05)
45	16	HFQ645CT-ND†◆	3.31	2.57	2.06	1.66	1454.00/M	FH23-45S-0.3SHW(05)
51	17.8	HFQ651CT-ND†◆	3.15	2.43	1.94	1.62	1237.00/M	FH23-51S-0.3SHW(06)
61	20.8	HFQ461CT-ND†◆	4.09	3.18	2.54	2.05	1798.00/M	FH23-61S-0.3SHW(05)

◆ ***RoHS Compliant*** † Gold Plating ‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH18 Series (0.3mm Pitch) Flex Connectors Low Profile

Features: • Contact spacing (pitch) 0.3mm • Flexible Printed Circuits (FPC) with contact spacing of 0.3mm are used with increased frequency (These connectors occupy less board space and are lighter than comparable connectors with contacts spaced at 0.5mm)

Applications: Consumer electronics, portable equipment, cameras, PDAs and other devices where board space and component packaging requires ultra small interconnection.

Specifications: • Current Rating: 0.15A • Temperature Range: -40°C ~ 70°C • Voltage Rating: 30VAC

Materials: • Insulators: LCP, Body - Beige; Latch - Black; UL94V-0 • Contacts: Phosphor bronze, tin-lead plated; Metal Fitting: Bronze, tin-lead plated

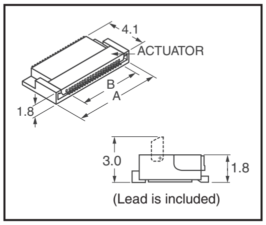

(Lead is included)

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Tape & Reel‡ Pricing 2,500	Hirose Part No.
17	7.6	4.8	HFM117CT-ND	1.89	1.45	1.16	.97	740.00/M	FH18-17S-0.3SHW(55)
21	8.8	6.0	HFM121CT-ND	1.98	1.53	1.22	1.02	778.00/M	FH18-21S-0.3SHW(55)
25	10.0	7.2	HFM125CT-ND	2.21	1.70	1.36	1.13	867.00/M	FH18-25S-0.3SHW(55)
27	10.6	7.8	HFM127CT-ND	2.24	1.73	1.38	1.15	880.00/M	FH18-27S-0.3SHW(55)
39	14.2	11.4	HFM139CT-ND	2.67	2.05	1.64	1.37	1046.00/M	FH18-39S-0.3SHW(55)
51	17.8	15.0	HFM151CT-ND	3.09	2.38	1.90	1.58	1211.00/M	FH18-51S-0.3SHW(55)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH26 Series (0.3mm Pitch) Flexible Printed Circuit ZIF Connectors

Features: • Space saving design: connector height is 1.0mm and the depth of the mounting area is 3.2mm • Flip lock actuator allows easy insertion of FPC • Metal FPC insertion guide makes it easy to insert FPC

Applications: Mobile phone, LCD application, digital video camera, digital camera, PDA, camera module, compact electronic equipment

Specifications: • Current Rating: 0.2A • Voltage Rating: 30VAC • Operating Temperature Range: -55°C ~ 85°C

Materials: • Insulator: Polyamide, LCP, black, UL94V-0 • Actuator PA, dark brown, UL94V-0 • Contacts: Phosphor bronze, gold plated • Metal fitting: Phosphor bronze, tin plated (lead free)

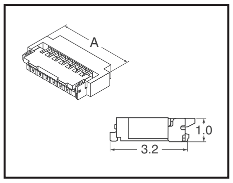

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Tape & Reel‡ Pricing 5,000	Hirose Part No.
13	5.4	HFQ313CT-ND	2.21	1.70	1.36	1.13	850.00/M	FH26-13S-0.3SHW(05)
15	6.0	HFQ315CT-ND	2.28	1.75	1.40	1.17	875.00/M	FH26-15S-0.3SHW(05)
17	6.6	HFQ317CT-ND	2.41	1.85	1.48	1.23	925.00/M	FH26-17S-0.3SHW(05)
21	7.8	HFQ321CT-ND	2.54	1.95	1.56	1.30	975.00/M	FH26-21S-0.3SHW(05)
23	8.4	HFQ323CT-ND	2.63	2.03	1.62	1.35	1013.00/M	FH26-23S-0.3SHW(05)
25	9.0	HFQ325CT-ND	2.70	2.08	1.66	1.38	1038.00/M	FH26-25S-0.3SHW(05)
27	9.6	HFQ327CT-ND	2.76	2.13	1.70	1.42	1063.00/M	FH26-27S-0.3SHW(05)
29	10.2	HFQ329CT-ND	2.89	2.23	1.78	1.48	1113.00/M	FH26-29S-0.3SHW(05)
31	10.8	HFQ331CT-ND	2.93	2.25	1.80	1.50	1125.00/M	FH26-31S-0.3SHW(05)
33	11.4	HFQ333CT-ND	2.99	2.30	1.84	1.53	1150.00/M	FH26-33S-0.3SHW(05)
35	12.0	HFQ335CT-ND	3.12	2.40	1.92	1.60	1200.00/M	FH26-35S-0.3SHW(05)
37	12.6	HFQ337CT-ND	3.19	2.45	1.96	1.63	1225.00/M	FH26-37S-0.3SHW(05)
39	13.2	HFQ339CT-ND	2.90	2.25	1.80	1.45	1250.00/M	FH26-39S-0.3SHW(05)
41	13.8	HFQ341CT-ND	2.99	2.32	1.86	1.50	1288.00/M	FH26-41S-0.3SHW(05)
45	15.0	HFQ345CT-ND	3.10	2.41	1.93	1.56	1338.00/M	FH26-45S-0.3SHW(05)
51	16.8	HFQ351CT-ND	3.36	2.61	2.09	1.69	1450.00/M	FH26-51S-0.3SHW(05)
55	18.0	HFQ355CT-ND	3.60	2.79	2.24	1.80	1550.00/M	FH26-55S-0.3SHW(05)
57	18.6	HFQ357CT-ND	3.65	2.84	2.27	1.83	1575.00/M	FH26-57S-0.3SHW(05)
61	19.8	HFQ361CT-ND	3.74	2.91	2.33	1.88	1613.00/M	FH26-61S-0.3SHW(05)
67	21.6	HFQ367CT-ND	3.22	2.50	2.00	1.61	1625.00/M	FH26G-67S-0.3SHBW(05)
71	22.8	HFQ371CT-ND	4.12	3.20	2.56	2.06	1775.00/M	FH26-71S-0.3SHW(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

High Density FFC/FPC Connectors *(Cont.)*

FH35 Series (0.3mm Pitch) Flexible Printed Circuit ZIF Connectors

Features: • Low Profile • Unique Back-Flip rotating actuator (the rotating actuator opens from the back of the connector, assuring reliable electrical and mechanical connection • Entry chamfers at all sides of the FPC insertion slot assure correct insertion and positioning of the FPC • Conductive traces on the PCB can run under the connector

Specifications: • Current Rating: 0.2A (when passing the current through all of the contacts, use 70% of the rated current) • Voltage Rating: 30Vrms AC • Operating Temperature Range: -55°C ~ 85°C (includes temperature rise caused by current flow) • Insulation Resistance: 50MΩ minimum @ 100VDC • Withstanding Voltage: No Flashover or insulation breakdown @ 90Vrms AC per minute • Contact Resistance: 100mΩ maximum @ 1mA AC • Durability: 10 cycles • Recommended FPC: Thickness: 0.2±0.03 Gold plated

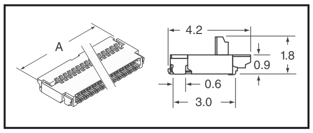

Part	Material	Finish	Remarks
Insulator	LCP	Color: Beige	UL94V-0
Actuator	PA	Color: Beige	UL94V-0
Contacts	Phosphor Bronze	Gold Plating	—
Metal Fittings	Phosphor Bronze	Pure Tin reflow plating	—

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Tape & Reel‡ Pricing 5,000	Hirose Part No.
19	7.3	FHI019CT-ND	1.95	1.50	1.20	1.00	750.00/M	FH35-19S-0.3SHW(50)
25	9.1	FHI025CT-ND	2.15	1.65	1.32	1.10	825.00/M	FH35-25S-0.3SHW(50)
33	11.5	FHI033CT-ND	2.41	1.85	1.48	1.23	925.00/M	FH35-33S-0.3SHW(50)
35	12.1	FHI035CT-ND	2.47	1.90	1.52	1.27	950.00/M	FH35-35S-0.3SHW(50)
45	15.1	FHI045CT-ND	2.98	2.29	1.84	1.53	1145.00/M	FH35-45S-0.3SHW(50)
51	16.9	FHI051CT-ND	3.02	2.33	1.86	1.55	1162.50/M	FH35-51S-0.3SHW(50)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

NEW! FH39 Series (0.3mm Pitch) Back Flip FPC Connectors

Features: • Space saving with short mounting depth • Easy mounting in double-sided SMT lead design: mounting pitch 0.6mm • No upper/lower designation of FPC contact surface provides design flexibility • Highly reliable contact by spring beam contacts on both top and bottom • Easy actuator lock with two-step operation by package with open actuator • High FPC retention force with back flip and unique contact design • Board area under the connector is available for PCB patterning • Visible lead for image inspection • Nickel barrier is applied to prevent solder wicking • Suitable for FPC with mating area thickness of 0.2 ±0.03mm

Specifications: • Current Rating: 0.2A • Voltage Rating: 30VAC/DC • Operating Temperature Range: -55°C ~ 85°C • Insulation Resistance: 50MΩ minimum @ 100VDC • Withstanding Voltage: No Flashover or breakdown @ 90VAC per minute • Contact Resistance: 100mΩ maximum @ 1mA AC

Materials: • Insulators: LCP: Beige UL94V-0 • Actuator: PA: Black UL94V-0 • Contacts: Phosphor bronze, gold over nickel

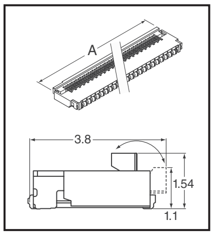

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Tape & Reel‡ Pricing 5,000	Hirose Part No.
25	9.7	HFU25CT-ND	2.31	1.78	1.42	1.18	887.50/M	FH39-25S-0.3SHW(10)
27	10.3	HFU27CT-ND	2.37	1.83	1.46	1.22	912.50/M	FH39-27S-0.3SHW(10)
29	10.9	HFU29CT-ND	2.63	2.03	1.62	1.35	1012.50/M	FH39-29S-0.3SHW(10)
33	12.1	HFU33CT-ND	2.60	2.00	1.60	1.33	1000.00/M	FH39-33S-0.3SHW(10)
39	13.9	HFU39CT-ND	2.80	2.15	1.72	1.43	1075.00/M	FH39-39S-0.3SHW(10)
45	15.7	HFU45CT-ND	3.02	2.33	1.86	1.55	1162.50/M	FH39-45S-0.3SHW(10)
51	17.5	HFU51CT-ND	3.22	2.48	1.98	1.65	1237.50/M	FH39-51S-0.3SHW(10)
67	22.3	HFU67CT-ND	3.60	2.79	2.24	1.80	1550.00/M	FH39A-67S-0.3SHW(10)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH19(C) and FH19S(C) Series Flex Connectors — (0.5mm Pitch) Flat Flex Cable and Flexible Printed Circuit

Features: • Conductive traces on the PCB can be designed to run under the connector. The bottom surface of the connector is solid, without any exposure of the contact • Accepts 0.2mm and 0.3mm thick FPC and FFC, easily inserted in the connector • The connector will also terminate successfully with 0.2mm thick Flat Flexible Cable (FFC)

Applications: • Notebook PC's, PDAs, digital cameras and other compact devices requiring interconnection of the main circuit board with the LCD, plasma display (PDP), HDD or other devices

Specifications: • Current Rating: 0.5A DC • Voltage Rating: 50VAC • Operating Temperature: -55°C ~ 85°C • Operating Humidity Range: Relative humidity 90% maximum (No condensation) • Insulation Resistance: 500MΩ minimum @ 100VDC • Contact Resistance: 100mΩ maximum @1mA (Including FPC/FFC conductor resistance) • *FH19(C) Series:* Thickness: 0.2 ±0.03mm tin or gold plating* • *FH19S(C) Series:* Thickness: 0.3 ±0.03mm tin or gold plating*

Materials: • Insulators: LCP: beige; PPS: *FH19(C) Series:* dark brown, *FH19S(C) Series:* black; all UL94V-0 • Contacts: Phosphor bronze, gold flash or tin plating* • Metal fittings: Phosphor bronze, pure tin reflow plating

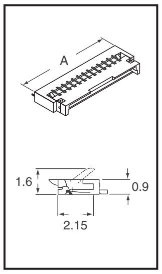

* ***Note:*** *When FPC is gold plated, connector contacts should also be gold plated.*

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	T&R Pricing‡ 5,000	Hirose Part No.
Improved Actuator Design — Gold Plating								
4	4.0	HFN404CT-ND	1.56	1.28	.93	.78	523.00/M	FH19C-4S-0.5SH(05)
6	5.0	HFN406CT-ND	1.67	1.37	.99	.84	561.00/M	FH19C-6S-0.5SH(05)
7	5.5	HFN407CT-ND	1.75	1.43	1.04	.88	587.00/M	FH19C-7S-0.5SH(05)
8	6.0	HFN408CT-ND	1.79	1.46	1.06	.90	599.00/M	FH19C-8S-0.5SH(05)
9	6.5	HFN409CT-ND	1.82	1.49	1.08	.92	612.00/M	FH19C-9S-0.5SH(05)
10	7.0	HFN410CT-ND	1.86	1.52	1.11	.94	625.00/M	FH19C-10S-0.5SH(05)
12	8.0	HFN412CT-ND	1.69	1.41	1.04	.87	650.00/M	FH19C-12S-0.5SH(05)
13	8.5	HFN413CT-ND	1.76	1.46	1.08	.90	675.00/M	FH19C-13S-0.5SH(05)
15	9.5	HFN415CT-ND	1.82	1.52	1.12	.93	700.00/M	FH19C-15S-0.5SH(05)
17	10.5	HFN417CT-ND	1.89	1.57	1.16	.97	725.00/M	FH19C-17S-0.5SH(05)
20	12.0	HFN420CT-ND	2.02	1.68	1.24	1.03	775.00/M	FH19C-20S-0.5SH(05)
21	12.5	HFN421CT-ND	2.08	1.73	1.28	1.07	800.00/M	FH19C-21S-0.5SH(05)
24	14.0	HFN424CT-ND	2.21	1.84	1.36	1.13	850.00/M	FH19C-24S-0.5SH(05)
27	15.5	HFN427CT-ND	2.34	1.95	1.44	1.20	900.00/M	FH19C-27S-0.5SH(05)
30	17.0	HFN430CT-ND	2.47	2.06	1.52	1.27	950.00/M	FH19C-30S-0.5SH(05)
4	4.0	HFN504CT-ND	1.56	1.28	.93	.78	523.00/M	FH19SC-4S-0.5SH(05)
5	4.5	HFN505CT-ND	1.63	1.34	.97	.82	548.00/M	FH19SC-5S-0.5SH(05)
6	5.0	HFN506CT-ND	1.67	1.37	.99	.84	561.00/M	FH19SC-6S-0.5SH(05)
8	6.0	HFN508CT-ND	1.79	1.46	1.06	.90	599.00/M	FH19SC-8S-0.5SH(05)
9	6.5	HFN509CT-ND	1.82	1.49	1.08	.92	612.00/M	FH19SC-9S-0.5SH(05)
10	7.0	HFN510CT-ND	1.86	1.52	1.11	.94	625.00/M	FH19SC-10S-0.5SH(05)
12	8.0	HFN512CT-ND	1.69	1.41	1.04	.87	650.00/M	FH19SC-12S-0.5SH(05)
13	8.5	HFN513CT-ND	1.76	1.46	1.08	.90	675.00/M	FH19SC-13S-0.5SH(05)
14	9.0	HFN514CT-ND	1.76	1.46	1.08	.90	675.00/M	FH19SC-14S-0.5SH(05)
15	9.5	HFN515CT-ND	1.82	1.52	1.12	.93	700.00/M	FH19SC-15S-0.5SH(05)
16	10.0	HFN516CT-ND	1.85	1.54	1.14	.95	713.00/M	FH19SC-16S-0.5SH(05)
17	10.5	HFN517CT-ND	1.89	1.57	1.16	.97	725.00/M	FH19SC-17S-0.5SH(05)
18	11.0	HFN518CT-ND	1.95	1.62	1.20	1.00	750.00/M	FH19SC-18S-0.5SH(05)
20	12.0	HFN520CT-ND	2.02	1.68	1.24	1.03	775.00/M	FH19SC-20S-0.5SH(05)
21	12.5	HFN521CT-ND	2.08	1.73	1.28	1.07	800.00/M	FH19SC-21S-0.5SH(05)
22	13.0	HFN522CT-ND	2.11	1.76	1.30	1.08	813.00/M	FH19SC-22S-0.5SH(05)
24	14.0	HFN524CT-ND	2.21	1.84	1.36	1.13	850.00/M	FH19SC-24S-0.5SH(05)
26	15.0	HFN526CT-ND	2.31	1.92	1.42	1.18	888.00/M	FH19SC-26S-0.5SH(05)
27	15.5	HFN527CT-ND	2.34	1.95	1.44	1.20	900.00/M	FH19SC-27S-0.5SH(05)
28	16.0	HFN528CT-ND	2.37	1.98	1.46	1.22	913.00/M	FH19SC-28S-0.5SH(05)
30	17.0	HFN530CT-ND	2.47	2.06	1.52	1.27	950.00/M	FH19SC-30S-0.5SH(05)
32	18.0	HFN532CT-ND	2.54	2.11	1.56	1.30	975.00/M	FH19SC-32S-0.5SH(05)
40	22.0	HFN540CT-ND	3.09	2.57	1.90	1.58	1188.00/M	FH19SC-40S-0.5SH(05)
45	24.5	HFN545CT-ND	2.96	2.45	1.84	1.48	1275.00/M	FH19SC-45S-0.5SH(05)
50	27	HFN550CT-ND	3.13	2.60	1.95	1.57	1350.00/M	FH19SC-50S-0.5SH(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

0.5mm FFC/FPC Connectors

FH33 Series — Single-sided Lead, Bottom Contact

Specifications:
- Current Rating: 0.5A maximum
- PBC Mount Type: SMT
- Contact Mating Area Plating: Gold
- Terminal Pitch: 0.5mm
- Contact Spacing: 0.5mm

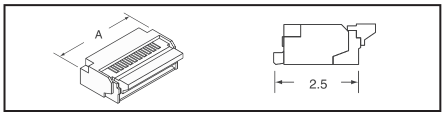

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape and Reel‡ Pricing 5,000	Hirose Part No.
6	5.0	HFS06CT-ND	1.56	1.28	.93	.78	HFS06TR-ND	523.00/M	FH33-6S-0.5SH(10)
9	6.5	HFS09CT-ND	1.63	1.34	.97	.82	HFS09TR-ND	548.00/M	FH33-9S-0.5SH(10)
10	7.0	HFS10CT-ND	1.67	1.37	.99	.84	HFS10TR-ND	561.00/M	FH33-10S-0.5SH(10)
12	8.0	HFS12CT-ND	1.75	1.43	1.04	.88	HFS12TR-ND	587.00/M	FH33-12S-0.5SH(10)
14	9.0	HFS14CT-ND	1.79	1.46	1.06	.90	HFS14TR-ND	599.00/M	FH33-14S-0.5SH(10)
26	15.0	HFS26CT-ND	1.82	1.52	1.12	.93	HFS26TR-ND	700.00/M	FH33-26S-0.5SH(10)
28	16.0	HFS28CT-ND	1.89	1.57	1.16	.97	HFS28TR-ND	725.00/M	FH33-28S-0.5SH(10)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

0.5mm FFC/FPC Connectors

FH34 Series — Top Contact Version of FH19S(C)

Features:
- Low profile and space saving 1.0mm of height and 3.8mm of mounting depth top contact connectors • Increased FPC/FFC retention force • Unique back flip ZIF structure enables user-friendly and reliable connection • Smooth FPC/FFC insertion with tapers at housing opening and actuator delivered in open position

Applications:
Mobile phones, digital cameras, digital video cameras, portable terminals, DVD, CD-R/W, Notebook PC, game machines

Specifications:
- Current Rating: 0.5A maximum • PCB Mount Type: SMT • Contact Mating Area Plating: Gold • Terminal Pitch: 0.5mm • Contact Spacing: 0.5mm • Operating Temperature Range: -55°C ~ 85°C

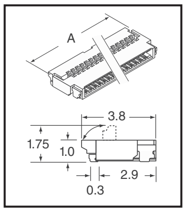

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Tape and Reel‡ Pricing 5,000	Hirose Part No.
4	4.0	HFT04CT-ND	3.00	2.50	1.85	1.54	—	FH34S-4S-0.5SH(10)
4	4.0	HFT104CT-ND ***NEW!***	1.79	1.46	1.06	.90	599.00/M	FH34S-4S-0.5SH(50)
6	5.0	HFT106CT-ND ***NEW!***	1.86	1.52	1.11	.94	625.00/M	FH34S-6S-0.5SH(50)
7	5.5	HFT107CT-ND ***NEW!***	1.66	1.59	1.02	.85	638.00/M	FH34S-7S-0.5SH(50)
8	6.0	HFT08CT-ND	2.93	2.43	1.82	1.47	—	FH34S-8S-0.5SH(10)
8	6.0	HFT108CT-ND ***NEW!***	1.66	1.59	1.02	.85	638.00/M	FH34S-8S-0.5SH(50)
11	7.5	HFT111CT-ND ***NEW!***	1.76	1.46	1.08	.90	675.00/M	FH34S-11S-0.5SH(50)
14	9.0	HFT114CT-ND ***NEW!***	1.85	1.54	1.14	.95	713.00/M	FH34S-14S-0.5SH(50)
16	10.0	HFT116CT-ND ***NEW!***	1.92	1.60	1.18	.98	738.00/M	FH34S-16S-0.5SH(50)
20	12.0	HFT120CT-ND ***NEW!***	2.05	1.71	1.26	1.05	788.00/M	FH34S-20S-0.5SH(50)
22	13.0	HFT122CT-ND ***NEW!***	2.11	1.76	1.30	1.08	813.00/M	FH34S-22S-0.5SH(50)
26	15.0	HFT126CT-ND ***NEW!***	2.24	1.87	1.38	1.15	863.00/M	FH34S-26S-0.5SH(50)
30	17.0	HFT30CT-ND	4.21	3.48	2.61	2.11	—	FH34S-30S-0.5SH(10)
30	17.0	HFT130CT-ND ***NEW!***	2.41	2.00	1.48	1.23	925.00/M	FH34S-30S-0.5SH(50)
32	18.0	HFT132CT-ND ***NEW!***	2.47	2.06	1.52	1.27	950.00/M	FH34S-32S-0.5SH(50)
34	19.0	HFT134CT-ND ***NEW!***	2.54	2.11	1.56	1.30	975.00/M	FH34S-34S-0.5SH(50)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

HIROSE ELECTRIC CO., LTD.

0.5mm and 1.0mm Pitch FFC/FPC Connectors FH12, FH12A, FH12F and FH12S Series — "Flip-Lock" SMT/ZIF Type Flexible Printed Circuit Board Connectors

The FH12 Series of miniature connectors for FPC/FFC use brings form to the newly developed "flip-lock" concept and can be used with Surface Mount Technology (SMT) to eliminate the problems of the contemporary slide-lock system. These connectors have a contact spacing of 0.5mm, are suited to high density mounting, and are based on a single-action Zero Insertion Force (ZIF) structure for easy connections. Types with top or bottom contacts, and vertical mounting are available to suit your applications.

Materials/Finish: • Insulation: Polyamide Resin, beige **• Actuator**: PPS Resin, dark brown (UL94V-0) **• Contacts**: Phosphor Bronze, gold plating **Electrical: • Rated Current**: 0.4A **• Insulation Resistance**: 500MΩ minimum 100VDC **• Withstanding Voltage**: 150VAC for one minute **• Contact Resistance**: 50mΩ maximum (***Note:*** *When all conductors are to continuously carry the rated current, set the current to 70% of the rated current value.)*

Fig. 1

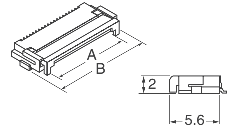

Fig. 2

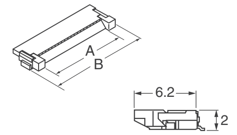

Fig. 3

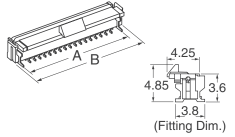

Fig.	No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Hirose Part No.
		A	B		1	25	100	250		Qty.	Pricing	
0.5mm Horizontal Mount — Bottom Contact Type												
1	14	7.57	11.1	HFJ14CT-ND	1.93	1.49	1.19	.99	—	—	—	FH12-14S-0.5SH
	16	8.57	12.1	HFJ16CT-ND	1.98	1.53	1.22	1.02	—	—	—	FH12-16S-0.5SH
	22	11.57	15.1	HFJ22CT-ND	2.27	1.75	1.40	1.16	—	—	—	FH12-22S-0.5SH
	45	23.07	26.6	HFJ45CT-ND	2.99	2.32	1.86	1.50	—	—	—	FH12-45S-0.5SH
0.5mm Horizontal Mount — Bottom Contact Type — RoHS Compliant												
1	6	3.57	7.1	HFJ106CT-ND	1.79	1.38	1.10	.92	HFJ106TR-ND	2,000	701.00/M	FH12-6S-0.5SH(55)
	10	5.57	9.1	HFJ110CT-ND	1.98	1.53	1.22	1.02	HFJ110TR-ND	2,000	778.00/M	FH12-10S-0.5SH(55)
	11	6.07	9.6	HFJ111CT-ND	2.02	1.55	1.24	1.03	HFJ111TR-ND	2,000	791.00/M	FH12-11S-0.5SH(55)
	12	6.57	10.1	HFJ112CT-ND	2.08	1.60	1.28	1.07	HFJ112TR-ND	2,000	816.00/M	FH12-12S-0.5SH(55)
	14	7.07	11.1	HFJ114CT-ND	2.18	1.68	1.34	1.12	HFJ114TR-ND	2,000	854.00/M	FH12-14S-0.5SH(55)
	15	8.07	11.6	HFJ115CT-ND	2.28	1.75	1.40	1.17	HFJ115TR-ND	2,000	893.00/M	FH12-15S-0.5SH(55)
	16	8.57	12.1	HFJ116CT-ND	2.31	1.78	1.42	1.18	HFJ116TR-ND	2,000	905.00/M	FH12-16S-0.5SH(55)
	18	9.57	13.1	HFJ118CT-ND	2.47	1.90	1.52	1.27	HFJ118TR-ND	2,000	969.00/M	FH12-18S-0.5SH(55)
	20	10.57	14.1	HFJ120CT-ND	2.57	1.98	1.58	1.32	HFJ120TR-ND	2,000	1007.00/M	FH12-20S-0.5SH(55)
	22	11.57	15.1	HFJ122CT-ND	2.67	2.05	1.64	1.37	HFJ122TR-ND	2,000	1046.00/M	FH12-22S-0.5SH(55)
	24	12.57	16.1	HFJ124CT-ND	2.80	2.15	1.72	1.43	HFJ124TR-ND	2,000	1097.00/M	FH12-24S-0.5SH(55)
	26	13.57	17.1	HFJ126CT-ND	2.96	2.28	1.82	1.52	HFJ126TR-ND	2,000	1160.00/M	FH12-26S-0.5SH(55)
	30	15.57	19.1	HFJ130CT-ND	3.09	2.38	1.90	1.58	HFJ130TR-ND	2,000	1211.00/M	FH12-30S-0.5SH(55)
	32	16.57	20.1	HFJ132CT-ND	2.99	2.32	1.86	1.50	HFJ132TR-ND	2,000	1313.00/M	FH12-32S-0.5SH(55)
	33	17.07	20.6	HFJ133CT-ND	3.07	2.39	1.91	1.54	HFJ133TR-ND	2,000	1352.00/M	FH12-33S-0.5SH(55)
	34	17.57	21.1	HFJ134CT-ND	3.07	2.39	1.91	1.54	HFJ134TR-ND	2,000	1352.00/M	FH12-34S-0.5SH(55)
	36	18.57	22.1	HFJ136CT-ND	3.16	2.46	1.97	1.59	HFJ136TR-ND	2,000	1390.00/M	FH12-36S-0.5SH(55)
	40	20.57	24.1	HFJ140CT-ND	3.48	2.70	2.16	1.74	HFJ140TR-ND	2,000	1530.00/M	FH12-40S-0.5SH(55)
	45	23.07	26.6	HFJ145CT-ND	3.86	3.00	2.40	1.93	HFJ145TR-ND	2,000	1696.00/M	FH12-45S-0.5SH(55)
	50	25.57	29.1	HFJ150CT-ND	4.18	3.24	2.60	2.09	HFJ150TR-ND	2,000	1836.00/M	FH12-50S-0.5SH(55)
0.5mm Horizontal Mount — Top Contact Type												
2	34	17.57	21.5	HFK34CT-ND	2.41	1.86	1.49	1.23	—	—	—	FH12A-34S-0.5SH
0.5mm Horizontal Mount — Top Contact Type — RoHS Compliant												
2	10	5.57	9.5	HFK110CT-ND	1.86	1.35	1.11	.94	HFK110TR-ND	2,000	637.00/M	FH12A-10S-0.5SH(55)
	12	6.57	10.5	HFK112CT-ND	1.69	1.30	1.04	.87	HFK112TR-ND	2,000	663.00/M	FH12A-12S-0.5SH(55)
	16	8.57	12.5	HFK116CT-ND	1.92	1.48	1.18	.98	HFK116TR-ND	2,000	752.00/M	FH12A-16S-0.5SH(55)
	18	9.57	13.5	HFK118CT-ND	2.02	1.55	1.24	1.03	HFK118TR-ND	2,000	791.00/M	FH12A-18S-0.5SH(55)
	20	10.57	14.5	HFK120CT-ND	1.98	1.53	1.22	1.02	HFK120TR-ND	2,000	778.00/M	FH12A-20S-0.5SH(55)
	24	12.57	16.5	HFK124CT-ND	2.31	1.78	1.42	1.18	HFK124TR-ND	2,000	905.00/M	FH12A-24S-0.5SH(55)
	30	15.57	19.5	HFK130CT-ND	2.76	2.13	1.70	1.42	HFK130TR-ND	2,000	1084.00/M	FH12A-30S-0.5SH(55)
	32	16.57	20.5	HFK132CT-ND	2.86	2.20	1.76	1.47	HFK132TR-ND	2,000	1122.00/M	FH12A-32S-0.5SH(55)
	33	17.07	21.0	HFK133CT-ND	2.96	2.28	1.82	1.52	HFK133TR-ND	2,000	1160.00/M	FH12A-33S-0.5SH(55)
	36	18.57	22.5	HFK136CT-ND	3.15	2.43	1.94	1.62	HFK136TR-ND	2,000	1237.00/M	FH12A-36S-0.5SH(55)
	40	20.57	24.5	HFK140CT-ND	3.07	2.39	1.91	1.54	HFK140TR-ND	2,000	1352.00/M	FH12A-40S-0.5SH(55)
	45	23.07	27.0	HFK145CT-ND ***NEW!***	3.39	2.64	2.11	1.70	HFK145TR-ND ***NEW!***	2,000	1491.75/M	FH12A-45S-0.5SH(55)
	50	25.57	29.5	HFK150CT-ND	3.80	2.95	2.36	1.90	HFK150TR-ND	2,000	1670.00/M	FH12A-50S-0.5SH(55)
0.5mm Vertical Mount — RoHS Compliant												
3	10	6.5	8.4	HFL110CT-ND	1.72	1.33	1.06	.88	HFL110TR-ND	1,000	705.00	FH12-10S-0.5SV(55)
	12	7.5	9.4	HFL112CT-ND	1.92	1.48	1.18	.98	HFL112TR-ND	1,000	785.00	FH12-12S-0.5SV(55)
	15	9.0	10.9	HFL115CT-ND	2.18	1.68	1.34	1.12	HFL115TR-ND	1,000	891.00	FH12-15S-0.5SV(55)
	16	9.5	11.4	HFL116CT-ND	2.21	1.70	1.36	1.13	HFL116TR-ND	1,000	904.00	FH12-16S-0.5SV(55)
	18	10.5	12.4	HFL118CT-ND	2.37	1.83	1.46	1.22	HFL118TR-ND	1,000	971.00	FH12-18S-0.5SV(55)
	20	11.5	13.4	HFL120CT-ND	2.50	1.93	1.54	1.28	HFL120TR-ND	1,000	1024.00	FH12-20S-0.5SV(55)
	22	12.5	14.4	HFL122CT-ND	2.67	2.05	1.64	1.37	HFL122TR-ND	1,000	1091.00	FH12-22S-0.5SV(55)
	24	13.5	15.4	HFL124CT-ND	2.86	2.20	1.76	1.47	HFL124TR-ND	1,000	1170.00	FH12-24S-0.5SV(55)
	26	14.5	16.4	HFL126CT-ND	2.96	2.28	1.82	1.52	HFL126TR-ND	1,000	1210.00	FH12-26S-0.5SV(55)
	30	16.5	18.4	HFL130CT-ND	2.90	2.25	1.80	1.45	HFL130TR-ND	1,000	1300.00	FH12-30S-0.5SV(55)
	33	18.0	19.9	HFL133CT-ND	3.16	2.46	1.97	1.59	HFL133TR-ND	1,000	1417.00	FH12-33S-0.5SV(55)
	36	19.5	21.4	HFL136CT-ND	3.51	2.73	2.18	1.76	HFL136TR-ND	1,000	1573.00	FH12-36S-0.5SV(55)
	40	21.5	23.4	HFL140CT-ND	3.80	2.95	2.36	1.90	HFL140TR-ND	1,000	1703.00	FH12-40S-0.5SV(55)
	45	24.0	25.9	HFL145CT-ND	4.06	3.15	2.52	2.03	HFL145TR-ND	1,000	1820.00	FH12-45S-0.5SV(55)
	50	26.5	28.4	HFL150CT-ND	4.35	3.38	2.70	2.18	HFL150TR-ND	1,000	1950.00	FH12-50S-0.5SV(55)
	60	31.5	33.4	HFL160CT-ND	4.84	3.76	3.01	2.43	HFL160TR-ND	1,000	2171.00	FH12-60S-0.5SV(55)
0.5mm Horizontal Mount — Bottom Contact Type with 0.18mm FPC End Thickness												
1	18	9.57	13.1	HFR18CT-ND	2.12	1.64	1.31	1.09	—	—	—	FH12F-18S-0.5SH
	36	18.57	22.1	HFR36CT-ND	2.97	2.29	1.83	1.52	—	—	—	FH12F-36S-0.5SH
0.5mm Horizontal Mount — Bottom Contact Type with Strengthened Lock Lever — RoHS Compliant												
1	30	15.57	19.1	HFA130CT-ND	3.09	2.38	1.90	1.58	HFA130TR-ND	2,000	1211.00/M	FH12S-30S-0.5SH(55)
	40	20.57	24.1	HFA140CT-ND	3.39	2.64	2.11	1.70	HFA140TR-ND	2,000	1492.00/M	FH12S-40S-0.5SH(55)
	45	23.07	26.6	HFA145CT-ND	3.86	3.00	2.40	1.93	HFA145TR-ND	2,000	1696.00/M	FH12S-45S-0.5SH(55)
	50	25.57	29.1	HFA150CT-ND	4.18	3.24	2.60	2.09	HFA150TR-ND	2,000	1836.00/M	FH12S-50S-0.5SH(55)
1.0mm Horizontal Mount† — Bottom Contact Type — RoHS Compliant												
1	5	6.07	9.6	HFB105CT-ND	1.52	1.10	.90	.76	HFB105TR-ND	2,000	520.00/M	FH12-5S-1SH(55)
	6	7.07	10.6	HFB106CT-ND	1.56	1.13	.93	.78	HFB106TR-ND	2,000	533.00/M	FH12-6S-1SH(55)
	7	8.07	11.6	HFB107CT-ND	1.63	1.19	.97	.82	HFB107TR-ND	2,000	559.00/M	FH12-7S-1SH(55)
	8	9.07	12.6	HFB108CT-ND	1.67	1.21	.99	.84	HFB108TR-ND	2,000	572.00/M	FH12-8S-1SH(55)
	9	10.07	13.6	HFB109CT-ND	1.66	1.20	.99	.83	HFB109TR-ND	2,000	598.00/M	FH12-9S-1SH(55)
	11	12.07	15.6	HFB111CT-ND	1.63	1.25	1.00	.83	HFB111TR-ND	2,000	638.00/M	FH12-11S-1SH(55)
	16	17.07	20.6	HFB116CT-ND	1.89	1.45	1.16	.97	HFB116TR-ND	2,000	740.00/M	FH12-16S-1SH(55)
	22	23.07	26.6	HFB122CT-ND	2.08	1.60	1.28	1.07	HFB122TR-ND	2,000	816.00/M	FH12-22S-1SH(55)
	26	27.07	30.6	HFB126CT-ND	2.28	1.75	1.40	1.17	HFB126TR-ND	2,000	893.00/M	FH12-26S-1SH(55)
1.0mm Vertical Mount† — RoHS Compliant												
3	6	5	9.9	HFC106CT-ND	1.63	1.25	1.00	.83	HFC106TR-ND	1,000	665.00	FH12-6S-1SV(55)
	8	7	11.9	HFC108CT-ND	1.72	1.33	1.06	.88	HFC108TR-ND	1,000	705.00	FH12-8S-1SV(55)
	16	15	19.9	HFC116CT-ND	2.21	1.70	1.36	1.13	HFC116TR-ND	1,000	904.00	FH12-16S-1SV(55)
	20	19	23.9	HFC120CT-ND	2.50	1.93	1.54	1.28	HFC120TR-ND	1,000	1024.00	FH12-20S-1SV(55)
	24	23	27.9	HFC124CT-ND	2.86	2.20	1.76	1.47	HFC124TR-ND	1,000	1170.00	FH12-24S-1SV(55)

† Note: *The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

NEW! 0.5mm-Pitch FPC/FFC ZIF Connectors — FH28 Series

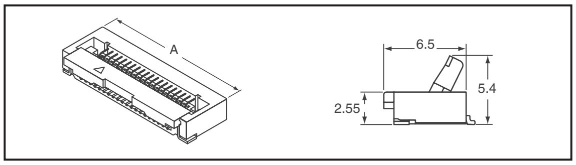

Features: • Precise FFC/FPC positioning: Large angle of the actuator opening and built-in side guides in the connector allow straight and exact insertion of the FPC/FFC • Rotating actuator: Allows easy ZIF connection with a definite tactile feel • Strong FFC/FPC retention force: Increased 200% (as compared with FH12 series - 30 position) • Standard FFC/FPC thickness: Reliable connection with the use of readily available 0.3mm thick FFC/FPC
Specifications: • Rated Current: 0.5A DC • Rated Voltage: 50VAC • Insulation Resistance: 500MΩ minimum at 100VDC • Withstanding Voltage: 150VAC for one minute • Contact Resistance: 50mΩ maximum at 1mA (DC or 1000Hz) • Durability: 20 cycles • Operating Temperature: -40°C ~ 85°C
Materials/Finish: • Insulator: LCP, Gray • Actuator: LCP, Black • Contacts: Phosphor bronze, Gold plated • Metal fittings: Brass, Tin plated

No. of Positions	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Hirose Part No.
20	14.9	HFV020CT-ND	1.79	1.49	1.24	1.10	HFV020TR-ND	701.00/M	FH28E-20S-0.5SH(05)
28	18.9	HFV228CT-ND	1.95	1.62	1.35	1.20	HFV228TR-ND	765.00/M	FH28D-28S-0.5SH(05)
30	19.9	HFV230CT-ND	2.37	1.98	1.65	1.46	HFV230TR-ND	931.00/M	FH28D-30S-0.5SH(05)
40	24.9	HFV040CT-ND	2.21	1.84	1.53	1.36	HFV040TR-ND	867.00/M	FH28E-40S-0.5SH(05)
50	29.9	HFV050CT-ND	2.31	1.92	1.60	1.42	HFV050TR-ND	905.00/M	FH28E-50S-0.5SH(05)
60	34.9	HFV060CT-ND	2.57	2.14	1.78	1.58	HFV060TR-ND	1007.00/M	FH28E-60S-0.5SH(05)
68	38.9	HFV068CT-ND	2.86	2.38	1.98	1.76	HFV068TR-ND	1122.00/M	FH28E-68S-0.5SH(05)
80	44.9	HFV080CT-ND	2.96	2.45	2.04	1.84	HFV080TR-ND	1301.00/M	FH28H-80S-0.5SH(05)
40	24.9	HFV140CT-ND	2.24	1.87	1.56	1.38	HFV140TR-ND	880.00/M	FH28-40S-0.5SH(05)
50	29.9	HFV150CT-ND	2.21	1.84	1.53	1.36	HFV150TR-ND	867.00/M	FH28-50S-0.5SH(05)
55	32.4	HFV155CT-ND	2.37	1.98	1.65	1.46	HFV155TR-ND	931.00/M	FH28-55S-0.5SH(05)
60	34.9	HFV160CT-ND	2.83	2.35	1.96	1.74	HFV160TR-ND	1109.00/M	FH28-60S-0.5SH(05)

NEW! 0.5mm-Pitch Robust Vertical FPC/FFC Connectors — FH40 Series

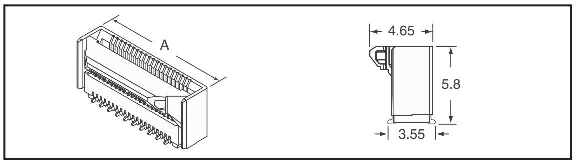

Features:
• Easy and smooth operation • LIF structure for high reliability • FPC/FFC side catcher • Robust lock structure • Mountable on FH12-SV land pattern • Applicable to automatic pick and place • Halogen free
Specifications:
• Rated Current: 0.5A • Rated Voltage: 50V AC/DC • Insulation Resistance: 500MΩ minimum at 100VDC • Contact Resistance: 50mΩ maximum at 20mV maximum (1KHz), 1mA • Operating Temperature: -40°C ~ 85°C
Materials/Finish:
• Insulator: LCP, Beige • Actuator: LCP, Black • Contacts: Phosphor bronze, Gold plated • Metal fittings: Phosphor bronze, Gold plated

No. of Positions	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Pricing 1,000	Hirose Part No.
10	8.2	HFW10CT-ND	1.76	1.35	1.08	.90	HFW10TR-ND	718.00	FH40-10S-0.5SV
20	13.2	HFW20CT-ND	2.21	1.70	1.36	1.13	HFW20TR-ND	904.00	FH40-20S-0.5SV
24	15.2	HFW24CT-ND	2.50	1.93	1.54	1.28	HFW24TR-ND	1024.00	FH40-24S-0.5SV
30	18.2	HFW30CT-ND	2.83	2.18	1.74	1.45	HFW30TR-ND	1157.00	FH40-30S-0.5SV
40	23.2	HFW40CT-ND	3.05	2.37	1.89	1.53	HFW40TR-ND	1365.00	FH40-40S-0.5SV
45	25.7	HFW45CT-ND	3.34	2.59	2.07	1.67	HFW45TR-ND	1495.00	FH40-45S-0.5SV
50	28.2	HFW50CT-ND	3.60	2.79	2.24	1.80	HFW50TR-ND	1612.00	FH40-50S-0.5SV
60	33.2	HFW60CT-ND	4.32	3.36	2.69	2.17	HFW60TR-ND	1937.00	FH40-60S-0.5SV
64	35.2	HFW64CT-ND	4.50	3.49	2.79	2.25	HFW64TR-ND	2015.00	FH40-64S-0.5SV

0.3 and 0.25mm-Pitch Rotary Backlock FPC Connector — XF2B, XF3A, XF3B and XF3C Series

Specifications: • Rated Current: 0.2A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times (*XF3A Series: 10 times*) • Operating Temperature: -30°C ~ 85°C **Materials/Finish:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/black (*XF3B Series: LCP resin (UL94V-0)/brown*) • Contact: Spring copper alloy/nickel substrate (2μm), Gold-plated contacts (0.15μm)

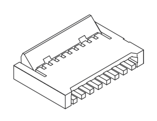

Fig.	No. of Pos.	Dimensions (mm) A	B	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Omron Part No.
1	17	4.2	4.8	0.3	OR694CT-ND	1.68	1.51	1.35	—	—	—	XF2B-1745-31A
	21	5.4	6.0	0.3	OR857CT-ND	1.74	1.57	1.40	OR857TR-ND	1,500	870.76/M	XF2B-2145-31A
	23	6.0	6.6	0.3	OR695CT-ND	2.26	2.04	1.81	OR695TR-ND	1,500	1131.13/M	XF2B-2345-31A
	25	6.6	7.2	0.3	OR858CT-ND	1.93	1.74	1.55	OR858TR-ND	1,500	963.00/M	XF2B-2545-31A
	27	7.2	7.8	0.3	OR773CT-ND	2.00	1.80	1.60	OR773TR-ND	1,500	997.50/M	XF2B-2745-31A
	31	8.4	9.0	0.3	OR696CT-ND	2.48	2.23	1.99	—	—	—	XF2B-3145-31A
	33	9.0	9.6	0.3	OR697CT-ND	2.98	2.69	2.39	OR697TR-ND	1,500	1491.38/M	XF2B-3345-31A
	35	9.6	10.2	0.3	OR859CT-ND	2.53	2.28	2.03	OR859TR-ND	1,500	1264.50/M	XF2B-3545-31A
	45	12.6	13.2	0.3	OR860CT-ND	2.91	2.62	2.33	OR860TR-ND	1,500	1452.76/M	XF2B-4545-31A
	51	14.4	15.0	0.3	OR772CT-ND	3.22	2.90	2.58	OR772TR-ND	1,500	1609.13/M	XF2B-5145-31A
	61	17.4	18.0	0.3	OR776CT-ND	3.59	3.24	2.88	OR776TR-ND	1,500	1795.50/M	XF2B-6155-31A
2	8	1.8	2.1	0.3	OR784CT-ND	1.03	.93	.83	OR784TR-ND	4,000	515.75/M	XF3A-0855-41A
	12	3.0	3.3	0.3	OR785CT-ND	1.14	1.03	.92	OR785TR-ND	4,000	571.25/M	XF3A-1255-41A
	51	14.4	15.0	0.3	OR1014CT-ND ***NEW!***	2.36	2.13	1.89	OR1014TR-ND ***NEW!***	4,000	1181.25/M	XF3A-515541A
	8	1.8	2.1	0.3	OR1015CT-ND ***NEW!***	.94	.85	.76	OR1015TR-ND ***NEW!***	2,000	471.13/M	XF3B-084531A
	19	4.8	5.4	0.3	OR1016CT-ND ***NEW!***	1.15	1.04	.92	OR1016TR-ND ***NEW!***	2,000	572.88/M	XF3B-194531A
	25	6.6	7.2	0.3	OR1017CT-ND ***NEW!***	1.32	1.19	1.06	OR1017TR-ND ***NEW!***	2,000	657.63/M	XF3B-254531A
	35	9.6	10.2	0.3	OR786CT-ND	1.68	1.52	1.35	OR786TR-ND	2,000	841.00/M	XF3B-3545-31A
	51	14.4	15.0	0.3	OR1018CT-ND ***NEW!***	2.31	2.09	1.86	OR1018TR-ND ***NEW!***	1,500	1157.00/M	XF3B-514531AE
	67	19.2	19.8	0.3	OR787CT-ND	2.88	2.60	2.31	OR787TR-ND	1,500	1439.26/M	XF3B-6745-31AE
	17	3.5	4.0	0.25	OR1019CT-ND ***NEW!***	1.46	1.32	1.17	OR1019TR-ND ***NEW!***	2,000	731.25/M	XF3C-174541A
	35	8.0	8.5	0.25	OR788CT-ND	1.79	1.62	1.44	OR788TR-ND	2,000	895.75/M	XF3C-3545-41A
	51	12.0	12.5	0.25	OR789CT-ND	2.32	2.09	1.86	OR789TR-ND	2,000	1158.25/M	XF3C-5145-41A

Fig. 1

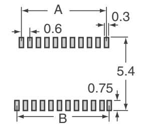

Fig. 2

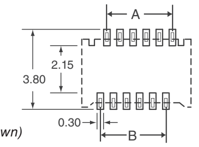

(XF3A Shown)

0.5mm-Pitch Rotary Backlock FPC Connector — XF2W Series

Features: • Double-sided contacts reduce the number of parts • Wire molding wall on the rear bottom of the connector allows greater freedom in board design • Applicable FPC thickness of 0.3mm **Specifications:** • Rated Current: 0.5A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times • Operating Temperature: -30°C ~ 85°C **Materials/Finish:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/brown • Contact: Spring copper alloy/nickel substrate (2μm), Gold-plated contacts (0.15μm) • Hold-down: Spring copper alloy/fused-tin plating (2μm)

No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Omron Part No.
16	7.5	9.1	OR875CT-ND	.83	.75	.67	OR875TR-ND	414.00/M	XF2W-1615-1A
20	9.5	11.1	OR876CT-ND	1.09	.98	.87	OR876TR-ND	542.63/M	XF2W-2015-1A
24	11.5	13.1	OR877CT-ND	1.30	1.18	1.05	OR877TR-ND	651.00/M	XF2W-2415-1A
64	31.5	33.1	OR878CT-ND	2.97	2.68	2.38	OR878TR-ND	1487.25/M	XF2W-6415-1AE

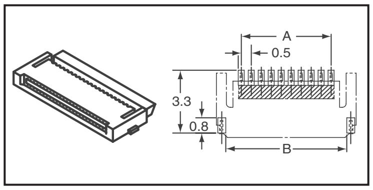

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON

0.4mm Board-to-Board Connector

SPECIFICATIONS: • **Rated Current:** 0.3A • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 50 times

FEATURES: • Ultra-low profile connector with a stacking height of 0.9mm which provides a firm tactile "click" and a high removal force • Twist-resistant design allows removal in all directions • Easy Insertion through self-alignment • Double contacts ensure highly reliable contact

Fig. 1 – Plug

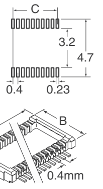

Fig. 2 – Socket

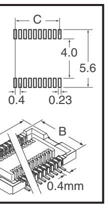

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
1	24	6.1	3.4	4.4	OR790CT-ND	.59	.53	.48	OR790TR-ND	294.25/M	XB4A-2435-D
	40	9.3	3.4	7.6	OR768CT-ND	.74	.67	.60	OR768TR-ND	370.38/M	XB4A-4035-D
	80	7.3	3.4	15.6	OR769CT-ND	1.26	1.13	1.01	OR769TR-ND	627.75/M	XB4A-8035-D
2	24	7.2	4.4	4.4	OR791CT-ND	.59	.53	.48	OR791TR-ND	294.25/M	XB4B-2435-D
	40	10.4	4.4	7.6	OR770CT-ND	.75	.68	.60	OR770TR-ND	374.63/M	XB4B-4035-D
	80	18.4	4.4	15.6	OR771CT-ND	1.28	1.16	1.03	OR771TR-ND	641.75/M	XB4B-8035-D

0.5mm-Pitch Slide-Lock FPC Connector — XF2L Series

XF2L-xx25 Upper:

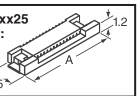

XF2L-xx35 Lower:

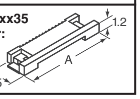

SPECIFICATIONS: • **Rated Current:** 0.5A • **Rated Voltage:** 50VDC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 30 times

FEATURES: • Low profile, measures 1.2mm maximum above the board • Top and bottom contact styles have identical dimensions, utilize the same PCB layout for board design • Hold-down terminal improves connection stability during soldering • Slide mechanism locks securely • Connectors supplied on tape reels for automatic insertion; color coded slide identifies top and bottom contact versions to avoid mix-ups during production

No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
7	8.4	OR678CT-ND	.83	.75	.66	—	—	XF2L-0725-1
7	8.4	OR679CT-ND	.88	.80	.71	—	—	XF2L-0735-1
13	11.4	OR685CT-ND	1.03	.93	.82	—	—	XF2L-1335-1
21	15.4	OR689CT-ND	1.30	1.17	1.04	—	—	XF2L-2125-1
RoHS Compliant								
4	6.9	OR746CT-ND	.77	.69	.62	OR746TR-ND	382.75/M	XF2L-0425-1A
5	7.4	OR747CT-ND	.81	.73	.65	OR747TR-ND	402.63/M	XF2L-0535-1A
6	7.9	OR748CT-ND	.84	.76	.68	OR748TR-ND	420.38/M	XF2L-0625-1A
6	7.9	OR749CT-ND	.78	.71	.63	OR749TR-ND	390.75/M	XF2L-0635-1A
7	8.4	OR750CT-ND	.89	.80	.71	OR750TR-ND	457.88/M	XF2L-0725-1A
8	8.9	OR751CT-ND	.92	.83	.74	OR751TR-ND	460.13/M	XF2L-0825-1A
10	9.9	OR752CT-ND	1.00	.91	.81	OR752TR-ND	500.38/M	XF2L-1025-1A
12	10.9	OR753CT-ND	1.08	.98	.87	OR753TR-ND	540.75/M	XF2L-1225-1A
13	11.4	OR756CT-ND	1.13	1.02	.91	OR756TR-ND	564.38/M	XF2L-1325-1A
13	11.4	OR757CT-ND	1.13	1.02	.91	OR757TR-ND	564.38/M	XF2L-1335-1A
15	12.4	OR758CT-ND	1.18	1.07	.95	OR758TR-ND	591.25/M	XF2L-1535-1A
18	13.9	OR759CT-ND	1.21	1.10	.97	OR759TR-ND	606.25/M	XF2L-1825-1A
18	13.9	OR754CT-ND	1.21	1.10	.97	OR754TR-ND	606.25/M	XF2L-1835-1A
19	14.4	OR760CT-ND	1.25	1.13	1.01	OR760TR-ND	625.13/M	XF2L-1935-1A
20	14.9	OR761CT-ND	1.28	1.16	1.03	OR761TR-ND	641.25/M	XF2L-2035-1A
21	15.4	OR762CT-ND	1.32	1.19	1.06	OR762TR-ND	660.00/M	XF2L-2125-1A
22	15.9	OR763CT-ND	1.36	1.23	1.09	OR763TR-ND	678.88/M	XF2L-2235-1A
24	16.9	OR764CT-ND	1.43	1.29	1.15	OR764TR-ND	716.50/M	XF2L-2435-1A
26	17.9	OR765CT-ND	1.50	1.36	1.21	OR765TR-ND	751.38/M	XF2L-2625-1A
30	19.9	OR766CT-ND	1.65	1.49	1.32	OR766TR-ND	824.00/M	XF2L-3025-1A
30	19.9	OR767CT-ND	1.65	1.49	1.32	OR767TR-ND	824.00/M	XF2L-3035-1A

0.5mm-Pitch Rotary-Lock FPC Connector — XF2H Series

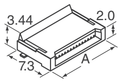

SPECIFICATIONS: • **Rated Current:** 0.5A • **Rated Voltage:** 50VDC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 20 times

FEATURES: • Rotary-lock at rear instead of front simplifies assembly, provides secure connection even if cable flexes upward • FPC housing design ensures reliable alignment of circuits during assembly, unaffected by rotary-lock • Double-sided contacts can be used wherever top or bottom connection is needed, reducing part numbers on bill of materials • Low profile, measures only 2mm maximum above the circuit board

Note: "Not for New Design" – Currently this Series is being replaced by XF2M Series

No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Omron Part No.
22	15.1	OC646CT-ND	.89	.80	.71	XF2H-2215-1LW

0.5mm-Pitch FPC Connector — XF2U Series

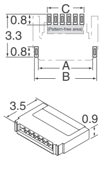

SPECIFICATIONS: • **Contact Type:** Vertical • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250V AC for 1 minute • **Insertion Tolerance:** 20 times • **Housing:** LCP resin (UL94V-0)/natural

FEATURES: • A miniature connector with a rotary backlock mechanism: On-board profile: 0.9mm; Depth Dimension: 3.5mm • Connections can be made from above or below thanks to the backlock mechanism • Gold plated with an applicable FPC thickness of 0.2mm

No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
14	8.1	8.9	6.8	OR862CT-ND	1.14	1.03	.91	OR862TR-ND	568.13/M	XF2U-1415-3A
20	11.1	11.9	9.8	OR863CT-ND	1.37	1.24	1.10	OR863TR-ND	684.00/M	XF2U-2015-3A
24	13.1	13.9	11.8	OR864CT-ND	1.46	1.32	1.18	OR864TR-ND	732.00/M	XF2U-2415-3A
30	16.1	16.9	14.8	OR865CT-ND	1.62	1.47	1.30	OR865TR-ND	811.50/M	XF2U-3015-3A
40	21.1	21.9	19.8	OR866CT-ND	2.03	1.83	1.63	OR866TR-ND	1013.63/M	XF2U-4015-3A

0.5mm-Pitch Vertical Slide-Lock FPC Connector — XF2J Series

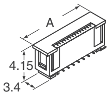

SPECIFICATIONS: • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250VAC for 1 minute **Insertion Tolerance:** 30 times

FEATURES: • Enlarged surface area on slide bar makes automatic assembly easier • Vertical slide mechanism locks flex circuit securely in place • Low-profile, measures only 4.15mm above the circuit board • Hold-down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Omron Part No.
Standard Terminals								
6	7.5	OR733CT-ND◆	.92	.83	.74	OR733TR-ND◆	459.00	XF2J-0624-11A
8	8.5	OR734CT-ND◆	1.09	.99	.88	OR734TR-ND◆	545.00	XF2J-0824-11A
10	9.5	OR735CT-ND◆	1.24	1.12	1.00	OR735TR-ND◆	620.25	XF2J-1024-11A
12	10.5	OR736CT-ND◆	1.39	1.25	1.11	OR736TR-ND◆	692.88	XF2J-1224-11A
14	11.5	OR737CT-ND◆	1.54	1.39	1.23	OR737TR-ND◆	767.50	XF2J-1424-11A
18	13.5	OR739CT-ND◆	1.83	1.65	1.47	OR739TR-ND◆	915.38	XF2J-1824-11A
20	14.5	OR740CT-ND◆	2.53	2.28	2.03	OR740TR-ND◆	1263.63	XF2J-2024-11A
22	15.5	OR741CT-ND◆	2.13	1.92	1.71	OR741TR-ND◆	1065.38	XF2J-2224-11A
22	15.5	OR667CT-ND	1.05	.95	.84	—	—	XF2J-2224-11
24	16.5	OR742CT-ND◆	2.28	2.05	1.83	OR742TR-ND◆	1137.88	XF2J-2424-11A
26	17.5	OR743CT-ND◆	2.43	2.19	1.95	OR743TR-ND◆	1213.13	XF2J-2624-11A
28	18.5	OR744CT-ND◆	2.58	2.32	2.07	OR744TR-ND◆	1288.38	XF2J-2824-11A
30	19.5	OR745CT-ND◆	2.73	2.46	2.19	OR745TR-ND◆	1363.13	XF2J-3024-11A
NEW! Reverse Terminals — RoHS Compliant NEW!								
6	7.5	OR1003CT-ND	.92	.83	.74	OR1003TR-ND	459.00	XF2J-062412A
8	8.5	OR1004CT-ND	1.09	.99	.88	OR1004TR-ND	545.00	XF2J-082412A
10	9.5	OR1005CT-ND	1.24	1.12	1.00	OR1005TR-ND	620.25	XF2J-102412A
12	10.5	OR1006CT-ND	1.38	1.25	1.11	OR1006TR-ND	690.13	XF2J-122412A
16	12.5	OR1007CT-ND	1.69	1.52	1.35	OR1007TR-ND	842.75	XF2J-162412A
18	13.5	OR1008CT-ND	1.83	1.65	1.47	OR1008TR-ND	915.38	XF2J-182412A
20	14.5	OR1009CT-ND	2.62	2.36	2.10	OR1009TR-ND	1310.75	XF2J-202412A
22	15.5	OR1010CT-ND	2.13	1.92	1.71	OR1010TR-ND	1065.38	XF2J-222412A
24	16.5	OR1011CT-ND	2.28	2.05	1.83	OR1011TR-ND	1137.88	XF2J-242412A
40	25.1	OR1013CT-ND	3.58	3.22	2.87	OR1013TR-ND	1788.75	XF2J-402412A

◆ *RoHS Compliant*

0.5mm-Pitch Rotary Backlock FPC Connector — XF2M Series

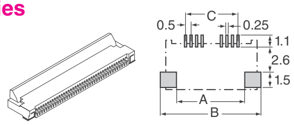

SPECIFICATIONS: • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Operating Temperature:** -30°C ~ 85°C

MATERIALS/FINISH: • **Housing:** LCP resin (UL94V-0)/natural • **Slider:** LCP resin (UL94V-0)/black • **Contact:** Spring copper alloy/nickel substrate (2µm), Au plating (0.15µm) • **Hold-down:** Spring copper alloy/fused-tin plating (1.5µm)

No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 1,500	Omron Part No.
34	18.1	21.5	16.5	OR701CT-ND	1.41	1.27	1.13	OR701TR-ND	703.63/M	XF2M34151L
RoHS Compliant										
10	6.1	9.5	4.5	OR717CT-ND	.98	.89	.79	OR717TR-ND	490.13/M	XF2M-1015-1A
12	7.1	10.5	5.5	OR861CT-ND	1.07	.97	.86	OR861TR-ND	536.26/M	XF2M-1215-1A
18	10.1	13.5	8.5	OR718CT-ND	1.20	1.08	.96	OR718TR-ND	597.76/M	XF2M-1815-1A
20	11.1	14.5	9.5	OR719CT-ND	1.25	1.13	1.01	OR719TR-ND	625.50/M	XF2M-2015-1A
22	12.1	15.5	10.5	OR720CT-ND	1.30	1.18	1.05	OR720TR-ND	651.00/M	XF2M-2215-1A
24	13.1	16.5	11.5	OR721CT-ND	1.36	1.23	1.09	OR721TR-ND	678.38/M	XF2M-2415-1A
26	14.1	17.5	12.5	OR722CT-ND	1.42	1.28	1.14	OR722TR-ND	708.00/M	XF2M-2615-1A
30	16.1	19.5	14.5	OR723CT-ND	1.52	1.37	1.22	OR723TR-ND	758.63/M	XF2M-3015-1A
32	17.1	20.5	15.5	OR724CT-ND	1.63	1.47	1.31	OR724TR-ND	815.63/M	XF2M-3215-1A
33	17.6	21.0	16.0	OR725CT-ND	1.67	1.51	1.34	OR725TR-ND	834.00/M	XF2M-3315-1A
34	18.1	21.5	16.5	OR726CT-ND	1.70	1.54	1.37	OR726TR-ND	850.13/M	XF2M-3415-1A
35	18.6	22.0	17.0	OR727CT-ND	1.87	1.69	1.50	OR727TR-ND	937.13/M	XF2M-3515-1A
36	19.1	22.5	17.5	OR728CT-ND	1.77	1.60	1.42	OR728TR-ND	886.88/M	XF2M-3615-1A
40	21.1	24.5	19.5	OR729CT-ND	1.92	1.73	1.54	OR729TR-ND	957.76/M	XF2M-4015-1A
42	22.1	25.5	20.5	OR730CT-ND	2.33	2.10	1.87	OR730TR-ND	1164.00/M	XF2M-4215-1A
45	23.6	27.0	22.0	OR731CT-ND	2.11	1.91	1.70	OR731TR-ND	1056.38/M	XF2M-4515-1A
50	26.1	29.5	24.5	OR732CT-ND	2.27	2.05	1.82	OR732TR-ND	1134.00/M	XF2M-5015-1A
60	31.1	34.5	29.5	OR777CT-ND	2.67	2.41	2.14	OR777TR-ND	1333.50/M	XF2M-6015-1AH

0.5mm-Pitch Rotary Backlock FPC Connector — XF2N and XF2R Series

SPECIFICATIONS:
Rated Current: 0.3A AC/DC **Rated Voltage:** 50V AC/DC **Operating Temperature:** -30°C ~ 85°C
MATERIALS/FINISH: Housing: LCP resin (UL94V-0)/natural **Slider:** LCP resin (UL 94V-0)/black **Contact:** Spring copper alloy/nickel substrate (1.5µm) gold-plated contacts (0.15µm) **Hold-down:** Spring copper alloy/fused-tin plating (1.5µm)

Fig. 1

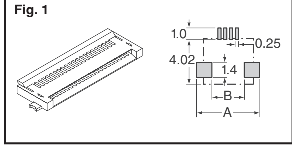

Fig. 2

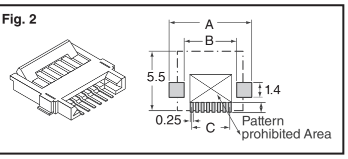

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
1	21	13.8	11.8	—	OR705CT-ND	1.79	1.61	1.44	OR705TR-ND	894.13/M	XF2N21153
2	6	6.1	4.1	2.5	OR706CT-ND	1.41	1.27	1.13	—	—	XF2R06154A
	9	7.6	5.6	4.0	OR707CT-ND	1.57	1.42	1.26	OR707TR-ND	786.50/M	XF2R09154A
	18	12.1	10.1	8.5	OR708CT-ND	2.06	1.86	1.65	OR708TR-ND	1030.25/M	XF2R18154A
	24	15.1	13.1	11.5	OR709CT-ND	2.38	2.15	1.91	OR709TR-ND	1192.38/M	XF2R24154A
	34	20.1	18.1	16.5	OR710CT-ND	4.50	4.05	3.60	—	—	XF2R34154A
	40	23.1	21.1	19.5	OR711CT-ND	3.25	2.93	2.61	OR711TR-ND	1626.63/M	XF2R40154A

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Board to Board Connectors

Panasonic Electric Works

Constructed for high reliability in various environments, these six connector series will make mobile devices tougher than ever. The F4, F4S, P4, P4S, P5K, P5KS, and P5KF employ our unique "TOUGH CONTACT" which has significant ability to withstand foreign particles and is highly resistant to shock, making them indispensable to all compact mobile devices. Developing products can be more confident by using our Tough Contact connector series. Applications include Compact portable devices, Cellular phones, DVC, Digital cameras, or anywhere that board-to-board or board-to-FPC cables are required. **F4 Series:** The lowest profile class among two-piece connectors in the world. Two-piece connectors achieve both a 0.4mm pitch and an ultra low profile of 0.9mm high when mated, contributing to further thickness reduction of products. Strong resistance to adverse environments. Utilizes "TOUGH CONTACT" construction for high contact reliability. The bellows-type double contact structure provides a high resistance to twisting and shock, ensuring a high contact reliability. Ideal for board-to-FPC connection. **F4S Series:** Space-saving (3.6mm widthwise). The required space is smaller than the F4 series (40-contact type): Header - 38% smaller, Socket - 27% smaller. Clips for preventing the solder joints from being removed. Highly reliable "TOUGH CONTACT" has strong resistance to adverse environments. The original bellows contact has high resistance to drop impact and twisting forces. **P4 Series:** Narrow pitch connectors for board-to-board and board-to-FPC connection. The connector is constructed with impact dispersion keys inside the body to disperse shocks when dropped. A high level of shock resistance is ensured by dispersing impact over the four locations where the socket indentations and header protrusions are mated together. **P4S Series:** Space saving when compared to the P4 series with retention fitting: Header - 34% smaller, Socket - 38% smaller. This will contribute to the weight and size savings in devices. (Comparison made with 30 contacts) **P5K and P5KS Series:** Narrow pitch connectors for board-to-board connection. Even with the low profile, the effective mating length has been extended to ensure that there is some latitude in the mating. Contacts are highly resistant to shock caused by dropping and employ the original bellows contact construction. **P5KF Series:** The header and socket have the same dropping shock and torsion resistant construction as the bellows-type contact. The connector is a two-piece structure with 0.5mm pitch. Strong resistance to adverse environments. Utilizes construction for high contact reliability. Simple locking structure. Superior mating operation with click feel to indicate that mating is complete.

TOUGH CONTACT

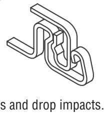

Highly reliable "TOUGH CONTACT" has strong resistance to adverse environments. Contacts are formed by bending a thin metal sheet. This provides the contact parts with adequate spring characteristics ensuring greater resistance to twisting forces and drop impacts.

Fig. 1 — ***F4 Series (0.4mm Pitch)***

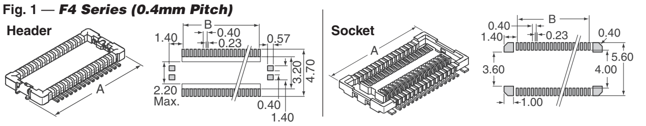

Fig. 2 — ***F4S Series (0.4mm Pitch)***

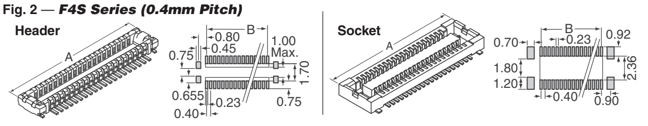

Fig. 3 — ***P4 Series (0.4mm Pitch)***

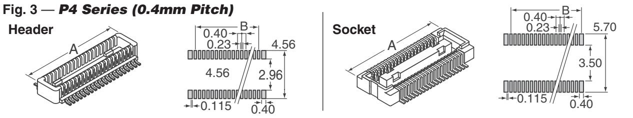

Fig. 4 — ***P4S Series (0.4mm Pitch)***

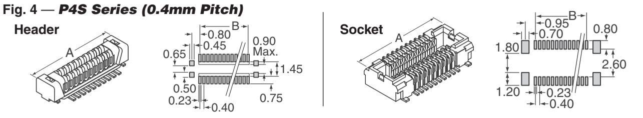

Fig. 5 — ***P5K Series (0.5mm Pitch)***

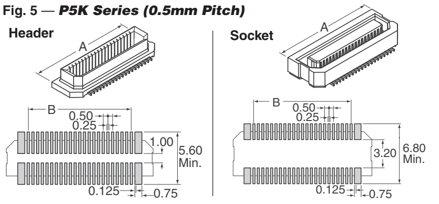

Fig. 6 — ***P5KS Series (0.5mm Pitch)***

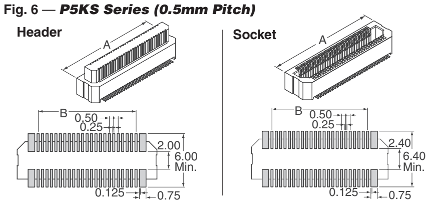

Fig. 7 — ***P5KF Series (0.5mm Pitch)***

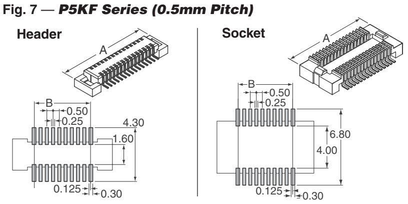

Form	No. of Pos.	Mated Height (mm)	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 1,000	Panasonic Part No.
			A	B		1	25	100		
Fig. 1 — F4 Series										
Header	12	0.9	4.4	2.0	255-2525-1-ND	1.25	1.15	.87	—	AXK8L12125BG
	20	0.9	6.0	3.6	255-2524-1-ND	2.28	2.10	1.59	1348.50	AXK8L20125BG
	30	0.9	8.0	5.6	255-2523-1-ND	3.41	3.13	2.37	2015.50	AXK8L30125BG
Socket	10	0.9	4.4	1.6	255-2532-1-ND	1.13	1.04	.79	667.00	AXK7L10227G
	12	0.9	4.8	2.0	255-2531-1-ND	1.35	1.24	.94	797.50	AXK7L12227G
	20	0.9	6.4	3.6	255-2530-1-ND	2.28	2.10	1.59	1348.50	AXK7L20227G
	30	0.9	8.4	5.6	255-2529-1-ND	3.41	3.13	2.37	2015.50	AXK7L30227G
Fig. 2 — F4S Series										
Header	10	1.0	3.8	1.6	255-2406-1-ND	1.59	1.47	1.11	942.50	AXT610124
	12	1.0	4.2	2.0	255-2405-1-ND	1.89	1.74	1.31	1116.50	AXT612124
	16	1.0	5.0	2.8	255-2404-1-ND	2.38	2.19	1.65	1406.50	AXT616124
	20	1.0	5.8	3.6	255-2403-1-ND	2.96	2.73	2.06	1754.50	AXT620124
	24	1.0	6.6	4.4	255-2402-1-ND	3.23	2.97	2.25	1914.00	AXT624124
	30	1.0	7.8	5.6	255-2401-1-ND	3.65	3.36	2.54	2160.50	AXT630124
	40	1.0	9.8	7.6	255-2400-1-ND	4.39	4.03	3.05	2595.50	AXT640124
	50	1.0	11.8	9.6	255-2399-1-ND	5.49	5.04	3.81	3248.00	AXT650124
	60	1.0	13.8	11.6	255-2398-1-ND	6.52	5.99	4.53	3857.00	AXT660124
Socket	10	1.0	4.5	1.6	255-2515-1-ND	1.59	1.47	1.11	942.50	AXT510124
	12	1.0	4.9	2.0	255-2414-1-ND	1.89	1.74	1.31	1116.50	AXT512124
	16	1.0	5.7	2.8	255-2413-1-ND	2.38	2.19	1.65	1406.50	AXT516124
	20	1.0	6.5	3.6	255-2412-1-ND	2.96	2.73	2.06	1754.50	AXT520124
	24	1.0	7.3	4.4	255-2411-1-ND	3.23	2.97	2.25	1914.00	AXT524124
	28	1.0	7.7	4.8	255-2929-1-ND✔	3.45	3.18	2.40	2044.50	AXT528124
	30	1.0	8.5	5.6	255-2410-1-ND	3.65	3.36	2.54	2160.50	AXT530124
	40	1.0	10.5	7.6	255-2409-1-ND	4.39	4.03	3.05	2595.50	AXT540124
	50	1.0	12.5	9.6	255-2408-1-ND	5.49	5.04	3.81	3248.00	AXT550124
	60	1.0	14.5	11.6	255-2407-1-ND	6.52	5.99	4.53	3857.00	AXT560124
Fig. 3 — P4 Series										
Header	22	1.5/2.0/2.5	5.5	4.0	255-2925-1-ND✔	2.52	2.32	1.76	1493.50	AXK822145WG
	24	1.5/2.0/2.5	5.9	4.4	255-2528-1-ND	2.72	2.50	1.89	1609.50	AXK824145WG
	40	1.5/2.0/2.5	9.1	7.6	255-2527-1-ND	4.56	4.19	3.17	2697.00	AXK840145WG
	50	1.5/2.0/2.5	11.1	9.6	255-2522-1-ND	4.90	4.50	3.40	2900.00	AXK850145WG
	64	1.5/2.0/2.5	13.9	12.4	255-2926-1-ND✔	6.25	5.74	4.34	3697.50	AXK864145WG
	80	3.0/3.5/4.0	17.1	15.6	255-2927-1-ND✔	7.01	6.44	4.87	4147.00	AXK880225WG
	100	1.5/2.0/2.5	21.1	19.6	255-2924-1-ND✔	9.95	9.14	6.91	5887.00	AXK800145WG
Socket	24	1.5	7.1	4.4	255-2535-1-ND	2.72	2.50	1.89	1609.50	AXK724147G
	40	1.5	10.3	7.6	255-2534-1-ND	4.56	4.19	3.17	2697.00	AXK740147G
	50	1.5	12.3	9.6	255-2533-1-ND	4.90	4.50	3.40	2900.00	AXK750147G
	64	1.5	15.1	12.4	255-2922-1-ND✔	6.25	5.74	4.34	3697.50	AXK764147G
	80	3.5	18.3	15.6	255-2923-1-ND✔	7.01	6.44	4.87	4147.00	AXK780427G
	100	1.5	22.3	19.6	255-2920-1-ND✔	9.95	9.14	6.91	5887.00	AXK700147G
	100	2.5/3.0	22.3	19.6	255-2921-1-ND✔	9.95	9.14	6.91	5887.00	AXK700347G
Fig. 4 — P4S Series										
Header	10	1.5/2.5	3.9	1.6	255-2518-1-ND	1.13	1.04	.79	667.00	AXT410124
	16	1.5/2.5	5.1	2.8	255-2517-1-ND	1.84	1.69	1.28	1087.50	AXT416124
	20	1.5/2.5	5.9	3.6	255-2516-1-ND	2.28	2.10	1.59	1348.50	AXT420124
Socket	10	1.5	4.7	1.6	255-2521-1-ND	8.33	7.65	5.78	4930.00	AXT310124
	16	1.5	5.9	2.8	255-2520-1-ND	8.33	7.65	5.78	4930.00	AXT316124
	20	1.5	6.7	3.6	255-2519-1-ND	8.33	7.65	5.78	4930.00	AXT320124
	50	1.5	12.7	9.6	255-2928-1-ND✔	4.68	4.30	3.25	2769.50	AXT350124
Fig. 5 — P5K Series										
Header	30	3.0	10.70	7.00	255-2556-1-ND	3.41	3.13	2.37	2015.50	AXK630347YG
	40	3.0	13.20	9.50	255-2555-1-ND	4.56	4.19	3.17	2697.00	AXK640347YG
	50	3.0	15.70	12.00	255-2554-1-ND	4.90	4.50	3.40	2900.00	AXK650347YG
	60	3.0	18.20	14.50	255-2553-1-ND	5.88	5.40	4.08	3480.00	AXK660347YG
Socket	30	3.0/3.5	10.70	7.00	255-2574-1-ND	3.41	3.13	2.37	2015.50	AXK530147YG
	40	3.0/3.5	13.20	9.50	255-2573-1-ND	4.56	4.19	3.17	2697.00	AXK540147YG
	50	3.0/3.5	15.70	12.00	255-2572-1-ND	4.90	4.50	3.40	2900.00	AXK550147YG
	60	3.0/3.5	18.20	14.50	255-2571-1-ND	5.88	5.40	4.08	3480.00	AXK560147YG
	100	3.0/3.5	28.20	24.50	255-2723-1-ND✔	9.78	8.98	6.79	5785.50	AXK500147YG
	100	3.0/3.5	28.20	24.50	255-2903-1-ND✔	3.04	2.79	2.11	—	AXK500147BN1
	100	3.0/3.5	28.20	24.50	255-2903-2-ND✔	2697.00/1,500			—	AXK500147BN1
Fig. 6 — P5KS Series										
Header	30	4.0/4.5/7.0	10.70	7.00	255-2547-1-ND	3.41	3.13	2.37	2015.50	AXK6S30447YG
	30	5.0/5.5/8.0	10.70	7.00	255-2546-1-ND	3.41	3.13	2.37	2015.50	AXK6S30547YG
	30	6.0/6.5/9.0	10.70	7.00	255-2545-1-ND	3.41	3.13	2.37	2015.50	AXK6S30647YG
	40	4.0/4.5/7.0	13.20	9.50	255-2544-1-ND	4.56	4.19	3.17	2697.00	AXK6S40447YG
	40	5.0/5.5/8.0	13.20	9.50	255-2543-1-ND	4.56	4.19	3.17	2697.00	AXK6S40547YG
	40	6.0/6.5/9.0	13.20	9.50	255-2542-1-ND	4.56	4.19	3.17	2697.00	AXK6S40647YG
	50	4.0/4.5/7.0	15.70	12.00	255-2541-1-ND	4.90	4.50	3.40	2900.00	AXK6S50447YG
	50	5.0/5.5/8.0	15.70	12.00	255-2540-1-ND	4.90	4.50	3.40	2900.00	AXK6S50547YG
	50	6.0/6.5/9.0	15.70	12.00	255-2539-1-ND	4.90	4.50	3.40	2900.00	AXK6S50647YG
	60	4.0/4.5/7.0	18.20	14.50	255-2538-1-ND	5.88	5.40	4.08	3480.00	AXK6S60447YG
	60	5.0/5.5/8.0	18.20	14.50	255-2537-1-ND	5.88	5.40	4.08	3480.00	AXK6S60547YG
	60	6.0/6.5/9.0	18.20	14.50	255-2536-1-ND	5.88	5.40	4.08	3480.00	AXK6S60647YG
Socket	30	4.0/5.0/6.0	10.70	7.00	255-2564-1-ND	3.41	3.13	2.37	2015.50	AXK5S30047YG
	30	7.0/8.0/9.0	10.70	7.00	255-2563-1-ND	3.41	3.13	2.37	2015.50	AXK5S30347YG
	40	4.0/5.0/6.0	13.20	9.50	255-2562-1-ND	4.56	4.19	3.17	2697.00	AXK5S40047YG
	40	7.0/8.0/9.0	13.20	9.50	255-2561-1-ND	4.56	4.19	3.17	2697.00	AXK5S40347YG
	50	4.0/5.0/6.0	15.70	12.00	255-2560-1-ND	4.90	4.50	3.40	2900.00	AXK5S50047YG
	50	7.0/8.0/9.0	15.70	12.00	255-2559-1-ND	4.90	4.50	3.40	2900.00	AXK5S50347YG
	60	4.0/5.0/6.0	18.20	14.50	255-2558-1-ND	5.88	5.40	4.08	3480.00	AXK5S60047YG
	60	4.5/5.5/6.5	18.20	14.50	255-2917-1-ND✔	5.88	5.40	4.08	3480.00	AXK5S60247YG
	60	7.0/8.0/9.0	18.20	14.50	255-2557-1-ND	5.88	5.40	4.08	3480.00	AXK5S60347YG
Fig. 7 — P5KF Series										
Header	10	1.5/2.0	4.8	5.50	255-2918-1-ND✔	1.13	1.04	.79	667.00	AXK6F10347YG
	16	1.5/2.0	7.0	5.50	255-2919-1-ND✔	1.84	1.69	1.28	1087.50	AXK6F16347YG
	24	1.5/2.0	9.00	5.50	255-2552-1-ND	2.72	2.50	1.89	1609.50	AXK6F24347YG
	24	2.5	9.00	5.50	255-2551-1-ND	2.72	2.50	1.89	1609.50	AXK6F24547YG
	30	1.5/2.0	10.50	7.00	255-2550-1-ND	3.41	3.13	2.37	2015.50	AXK6F30347YG
	30	2.5	10.50	7.00	255-2549-1-ND	3.41	3.13	2.37	2015.50	AXK6F30547YG
	40	1.5/2.0	13.00	9.50	255-2548-1-ND	4.56	4.19	3.17	2697.00	AXK6F40347YG
Socket	16	2.0/2.5	7.00	5.50	255-2915-1-ND✔	1.84	1.69	1.28	1087.50	AXK5F16547YG
	20	2.0/2.5	8.00	5.50	255-2724-1-ND✔	2.28	2.10	1.59	1348.50	AXK5F20547YG
	24	1.5	9.00	5.50	255-2570-1-ND	2.72	2.50	1.89	1609.50	AXK5F24347YG
	24	2.0/2.5	9.00	5.50	255-2569-1-ND	2.72	2.50	1.89	1609.50	AXK5F24547YG
	30	1.5	10.50	7.00	255-2568-1-ND	3.41	3.13	2.37	2015.50	AXK5F30347YG
	30	2.0/2.5	10.50	7.00	255-2567-1-ND	3.41	3.13	2.37	2015.50	AXK5F30547YG
	40	1.5	13.00	9.50	255-2566-1-ND	4.56	4.19	3.17	2697.00	AXK5F40347YG
	40	2.0/2.5	13.00	9.50	255-2565-1-ND	4.56	4.19	3.17	2697.00	AXK5F40547YG
	60	1.5	18.00	9.50	255-2916-1-ND✔	5.88	5.40	4.08	3480.00	AXK5F60347YG

† For Tape and Reel part number, change 1-ND to 2-ND. ✔***NEW!***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0.30mm (0.012”) FFC-FPC Connectors

SFYL-U and SFY Series

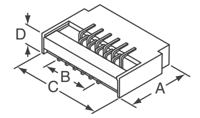

The SFY and SFYL-U Series are 0.30 mm (0.012 in) pitch cable to board connectors with ultra low profiles. The series adopt the Surface Mount Technology (SMT) and Zero Insertion Force (ZIF) or Low Insertion Force (LIF) mechanism, which enables easier cable insertion. These are suitable for high density design of consumer equipment, especially CD-ROM Drive, Digital Still Camera (DSC), Digital Video Camera (DVC) and Mobile Phone.

Features:
• Ultra low profile design provides a body height of 0.047 in. (1.2mm) for SFYL-U Series and 0.079 in. (2.0mm) for SFY Series • Easy handling cable insertion by actuator driven • High cable retention force • Design against solder and flux wicking

Materials:
• **Housing/Actuator:** Glass reinforced high temperature thermoplastic (UL 94V-0) • **Color:** Housing: White; Actuator: Black • **Contact:** Copper Alloy

Mechanical and Electrical Performance:
• **Durability (Actuator Operation):** 10 cycle maximum • **Temperature Range:** -25°C ~ 85°C • **Insulation Resistance:** 50MΩ minimum • **Withstanding Voltage:** AC 200V • **Current Rating:** AC/DC 0.2A

No. of Pos.	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
SFYL-U Series — Upper Contact Location												
39	0.146 (3.70)	0.425 (10.80)	0.551 (14.00)	0.047 (1.2)	609-1230-1-ND	1.64	.89	.78	—	—	—	10017251-392240ELF
SFY Series — ZIF Connector												
67	0.205 (5.2)	0.780 (19.8)	0.890 (22.6)	0.079 (2.0)	609-3440-1-ND	4.97	4.01	2.65	609-3440-2-ND	2,000	1438.22/M	62789-671111ALF

0.50mm (0.020”) FFC-FPC Connectors

SMT/ZIF Type

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications: • Contact Resistance: 30mΩ maximum; 50mΩ maximum for 10085901-6015ELF • Insulation Resistance: 100MΩ minimum; 50MΩ minimum for 10085901-6015ELF • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC

62674 Series:
• Housing: Resin, Glass Reinforced, UL 94V-0, Black • Slider: Resin, Glass Reinforced, UL 94V-0, Brown • Contact: Phosphor Bronze. Tin Alloy Plated

62684 Series:
• Housing: Glass Filled Thermoplastic, UL 94V-0, Beige • Slider: Glass Filled Thermoplastic, UL 94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

SFV Series:
• Housing: Polyamide Resin, Glass Reinforced, UL 94V-0, Black
• Slider: PPS Resin, Glass Reinforced, UL 94V-0, Brown (with cable-lock: Black) • Contact: Phosphor Bronze, Tin Alloy Plated

Fig. 1

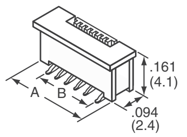

Fig. 2

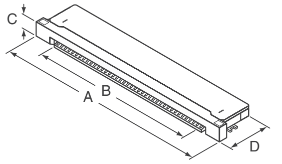

Fig.	No. of Pos.	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
SFV-S Series — Top Entry without Cable Lock (Gold Plated)														
1	8	—	0.335 (8.50)	0.138 (3.50)	—	—	609-1204-1-ND	.90	.45	.38	609-1204-2-ND	1,000	334.03	62674-081121ALF
	12	—	0.413 (10.50)	0.217 (5.50)	—	—	609-1205-1-ND	.97	.51	.43	609-1205-2-ND	1,000	407.81	62674-121121ALF
	20	—	0.571 (14.50)	0.374 (9.50)	—	—	609-1207-1-ND	1.11	.61	.52	609-1207-2-ND	1,000	486.69	62674-201121ALF
	21	—	0.591 (15.00)	0.394 (10.00)	—	—	609-1208-1-ND	1.11	.61	.52	609-1208-2-ND	1,000	421.97	62674-211121ALF
	24	—	0.650 (16.50)	0.453 (11.50)	—	—	609-1210-1-ND	1.36	.70	.59	609-1210-2-ND	1,000	563.36	62674-241121ALF
	25	—	0.669 (17.0)	0.472 (12.0)	—	—	609-1211-1-ND	1.38	.69	.59	609-1211-2-ND	1,000	534.75	62674-251121ALF
	26	—	0.689 (17.50)	0.492 (12.50)	—	—	609-1212-1-ND	1.38	.71	.60	609-1212-2-ND	1,000	505.80	62674-261121ALF
	30	—	0.768 (19.50)	0.571 (14.50)	—	—	609-1213-1-ND	1.56	.80	.68	609-1213-2-ND	1,000	631.01	62674-301121ALF
	32	—	0.807 (20.50)	0.610 (15.50)	—	—	609-1214-1-ND	1.78	.94	.79	609-1214-2-ND	1,000	685.72	62674-321121ALF
	33	—	0.827 (21.00)	0.630 (16.00)	—	—	609-1215-1-ND	1.65	.88	.74	609-1215-2-ND	1,000	668.85	62674-331121ALF
OPU Series — Side Entry without Cable Lock (Gold Plated)														
2	40	Lower	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1195-1-ND	1.14	.57	.49	609-1195-2-ND	2,000	406.35/M	62684-401100ALF
	45	Lower	1.055 (26.80)	0.866 (22.00)	0.079 (2.00)	0.197 (5.00)	609-1196-1-ND	1.27	.70	.59	609-1196-2-ND	2,000	492.42/M	62684-451100ALF
	50	Lower	0.957 (24.30)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1197-1-ND	1.19	.64	.54	609-1197-2-ND	2,000	449.70/M	62684-501100ALF
	32	Upper	0.799 (20.30)	0.610 (15.50)	0.079 (2.00)	0.197 (5.00)	609-1198-1-ND	.95	.48	.40	609-1198-2-ND	2,000	337.20/M	62684-322100ALF
	34	Upper	0.839 (21.30)	0.650 (16.50)	0.079 (2.00)	0.197 (5.00)	609-1199-1-ND	.99	.51	.44	609-1199-2-ND	2,000	354.60/M	62684-342100ALF
	40	Upper	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1200-1-ND	1.24	.69	.58	609-1200-2-ND	2,000	481.55/M	62684-402100ALF
	45	Upper	1.055 (26.80)	1.055 (26.80)	0.079 (2.00)	0.197 (5.00)	609-1201-1-ND	1.09	.56	.48	609-1201-2-ND	2,000	398.55/M	62684-452100ALF
	50	Upper	1.154 (29.3)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1202-1-ND	1.43	.79	.67	609-1202-2-ND	2,000	555.79/M	62684-502100ALF
	55	Upper	1.252 (31.8)	1.063 (27.00)	0.079 (2.00)	0.197 (5.00)	609-2840-1-ND	.97	.52	.47	609-2840-2-ND	2,000	372.36/M	62684-5521N0ALF
SFV-R Series — Side Entry, Lower Contact Location without Cable Lock														
2	4	Lower	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1846-1-ND	.67	.35	.29	609-1846-2-ND	3,000	229.68/M	SFV4R-1STE1LF
	5	Lower	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1848-1-ND	.97	.50	.43	609-1848-2-ND	3,000	323.96/M	SFV5R-1STE1LF
	6	Lower	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1850-1-ND	1.20	.67	.56	609-1850-2-ND	3,000	450.38/M	SFV6R-1STE1LF
	10	Lower	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1856-1-ND	1.38	.75	.64	609-1856-2-ND	3,000	528.92/M	SFV10R-1STE1LF
	12	Lower	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1858-1-ND	1.03	.57	.48	609-1858-2-ND	3,000	385.28/M	SFV12R-1STE1LF
	14	Lower	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1860-1-ND	1.07	.59	.50	609-1860-2-ND	3,000	407.41/M	SFV14R-1STE1LF
	15	Lower	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1862-1-ND	1.09	.60	.51	609-1862-2-ND	3,000	413.82/M	SFV15R-1STE1LF
	16	Lower	0.531 (13.50)	0.295 (7.50)	0.071 (1.80)	0.165 (4.20)	609-1864-1-ND	1.08	.60	.50	609-1864-2-ND	3,000	411.12/M	SFV16R-1STE1LF
	18	Lower	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1866-1-ND	1.65	.90	.79	609-1866-2-ND	3,000	644.36/M	SFV18R-1STE1LF
	20	Lower	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1868-1-ND	1.81	1.01	.89	609-1868-2-ND	3,000	726.84/M	SFV20R-1STE1LF
	24	Lower	0.689 (17.50)	0.453 (11.50)	0.071 (1.80)	0.165 (4.20)	609-1875-1-ND	1.80	1.01	.88	609-1875-2-ND	3,000	724.01/M	SFV24R-1STE1LF
	26	Lower	0.728 (18.50)	0.492 (12.50)	0.071 (1.80)	0.165 (4.20)	609-1877-1-ND	.83	.46	.39	609-1877-2-ND	3,000	316.35/M	SFV26R-1STE1LF
	28	Lower	0.768 (19.50)	0.531 (13.50)	0.071 (1.80)	0.165 (4.20)	609-1879-1-ND	1.41	.78	.67	609-1879-2-ND	3,000	554.68/M	SFV28R-1STE1LF
	30	Lower	0.807 (20.50)	0.571 (14.50)	0.071 (1.80)	0.165 (4.20)	609-1881-1-ND	1.47	.81	.69	609-1881-2-ND	6,000	560.74/M	SFV30R-1STE1LF
SFV-R Series — Side Entry, Upper Contact Location without Cable Lock														
2	4	Upper	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1847-1-ND	.67	.35	.29	609-1847-2-ND	3,000	241.14/M	SFV4R-2STE1LF
	5	Upper	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1849-1-ND	1.07	.60	.50	609-1849-2-ND	3,000	409.12/M	SFV5R-2STE1LF
	6	Upper	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1851-1-ND	1.47	.83	.71	609-1851-2-ND	3,000	585.76/M	SFV6R-2STE1LF
	8	Upper	0.374 (9.50)	0.138 (3.50)	0.071 (1.80)	0.165 (4.20)	609-1855-1-ND	.86	.43	.36	609-1855-2-ND	3,000	283.48/M	SFV8R-2STE1LF
	10	Upper	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1857-1-ND	.77	.40	.34	609-1857-2-ND	3,000	271.59/M	SFV10R-2STE1LF
	12	Upper	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1859-1-ND	1.03	.57	.48	609-1859-2-ND	3,000	385.28/M	SFV12R-2STE1LF
	14	Upper	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1861-1-ND	1.07	.59	.50	609-1861-2-ND	3,000	400.26/M	SFV14R-2STE1LF
	15	Upper	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1863-1-ND	1.28	.69	.59	609-1863-2-ND	3,000	499.61/M	SFV15R-2STE1LF
	18	Upper	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1867-1-ND	1.14	.63	.53	609-1867-2-ND	3,000	433.20/M	SFV18R-2STE1LF

(Continued)

0.50mm (0.020") FFC-FPC Connectors

SMT/ZIF Type *(Cont.)*

Fig.	No. of Pos.	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
2	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1869-1-ND	1.53	.86	.74	609-1869-2-ND	3,000	610.54/M	SFV20R-2STE1LF
	22	Upper	0.650 (16.50)	0.413 (10.50)	0.071 (1.80)	0.165 (4.20)	609-1874-1-ND	1.40	.78	.67	609-1874-2-ND	3,000	553.56/M	SFV22R-2STE1LF
	24	Upper	0.689 (17.50)	0.453 (11.50)	0.071 (1.80)	0.165 (4.20)	609-1876-1-ND	1.41	.77	.66	609-1876-2-ND	3,000	532.54/M	SFV24R-2STE1LF
	26	Upper	0.728 (18.50)	0.492 (12.50)	0.071 (1.80)	0.165 (4.20)	609-1878-1-ND	1.33	.74	.62	609-1878-2-ND	3,000	506.31/M	SFV26R-2STE1LF
	28	Upper	0.768 (19.50)	0.531 (13.50)	0.071 (1.80)	0.165 (4.20)	609-1880-1-ND	1.41	.78	.66	609-1880-2-ND	3,000	518.65/M	SFV28R-2STE1LF
	30	Upper	0.807 (20.50)	0.571 (14.50)	0.071 (1.80)	0.165 (4.20)	609-1882-1-ND	2.02	1.19	1.03	609-1882-2-ND	3,000	843.23/M	SFV30R-2STE1LF
SFV Series — Side Entry with Cable-Lock														
2	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1870-1-ND	1.23	.68	.58	609-1870-2-ND	3,000	470.54/M	SFV20R-4STE1LF
Side Entry														
2	10	Lower	0.295 (7.50)	0.177 (4.50)	0.047 (1.20)	0.134 (3.40)	609-1234-1-ND	1.04	.52	.44	609-1234-2-ND	4,500	343.00/M	10051922-1010ELF
	12	Lower	0.335 (8.50)	0.217 (5.50)	0.047 (1.20)	0.134 (3.40)	609-1236-1-ND	.86	.45	.38	609-1236-2-ND	4,500	307.38/M	10051922-1210ELF
	14	Lower	0.374 (9.50)	0.256 (6.50)	0.047 (1.20)	0.134 (3.40)	609-1237-1-ND	.88	.45	.39	609-1237-2-ND	4,500	312.08/M	10051922-1410ELF
	15	Lower	0.394 (10.00)	0.276 (7.00)	0.047 (1.20)	0.134 (3.40)	609-1238-1-ND	.95	.48	.40	609-1238-2-ND	4,500	320.20/M	10051922-1510ELF
	24	Lower	0.571 (14.50)	0.453 (11.50)	0.047 (1.20)	0.134 (3.40)	609-1241-1-ND	1.16	.62	.52	609-1241-2-ND	4,500	407.40/M	10051922-2410ELF
	30	Lower	0.689 (17.50)	0.571 (14.50)	0.047 (1.20)	0.134 (3.40)	609-1244-1-ND	1.30	.72	.61	609-1244-2-ND	4,500	486.92/M	10051922-3010ELF
	57	Lower	1.220 (31.00)	1.102 (28.00)	0.047 (1.20)	0.134 (3.40)	609-1233-1-ND	2.79	1.51	1.32	—	—	—	10042867-57MB10ELF
	60	Lower	1.346 (34.2)	1.161 (29.5)	0.091 (2.3)	0.177 (4.5)	609-3439-1-ND	1.69	.92	.81	609-3439-2-ND	3,000	685.72/M	10085901-6015ELF

0.80mm (0.031") FFC-FPC Connectors

SMT/ZIF Type

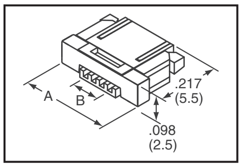

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications: • Housing Material: Glass Reinforced PPS, UL 94V-0 • Contact Material: Phosphor Bronze, Matte pure Tin plated • Contact Resistance: 30MΩ maximum • Insulation Resistance: 500MΩ minimum • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5A AC/DC • Voltage Rating: 100V AC/DC

No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
6	0.402 (10.20)	0.157 (4.00)	609-1171-1-ND	1.04	.58	.49	609-1171-2-ND	2,000	427.17/M	SFR6R-1STE1LF
8	0.465 (11.80)	0.220 (5.60)	609-1172-1-ND	1.09	.60	.51	609-1172-2-ND	2,000	461.25/M	SFR8R-1STE1LF
10	0.528 (13.40)	0.283 (7.20)	609-1173-1-ND	1.17	.65	.55	609-1173-2-ND	4,000	429.64/M	SFR10R-1STE1LF
12	0.591(15.00)	0.346 (8.80)	609-1174-1-ND	1.22	.69	.57	609-1174-2-ND	2,000	504.75/M	SFR12R-1STE1LF
24	0.969 (24.60)	0.724 (18.40)	609-1180-1-ND	1.64	.89	.78	609-1180-2-ND	2,000	634.84/M	SFR24R-1STE1LF
28	1.094 (27.80)	0.850 (21.60)	609-1182-1-ND	1.76	.98	.86	609-1182-2-ND	2,000	715.64/M	SFR28R-1STE1LF
30	1.157 (29.40)	0.913 (23.20)	609-1183-1-ND	2.96	1.60	1.37	609-1183-2-ND	2,000	782.28/M	SFR30R-1STE1LF

1.00mm (0.039") FFC-FPC Connectors

The Gas-Tight, High pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process allows a stable and reliable mating operation. The Low Insertion Force (LIF) contacts positioning provides a reliable and easy mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. Kinked solder tails provide added PCB retention.

Specifications: • Current Rating: 1A AC/DC • Voltage Rating: 100V AC/DC • Contact Resistance: 30mΩ maximum • Insulation Resistance: 500MΩ minimum • Durability (Mating Cycles): ZIF - 20 cycles, LIF - 30 cycles • Temperature Range: -55°C ~ 85°C

SLW Series: • Housing: Nylon, Glass Reinforced, UL94V-0, Black • Slider: Nylon, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HLW Series: • Housing: PBT, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HFW Series: • Housing: Polyamide 6T, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

SFW Series: • Housing: *For Right Angle Version:* PPS, Glass Reinforced, UL94V-0 *For FPC/FCC:* Housing Color: Brown (with cable-lock: Black) Slider Color: Black (with cable-lock: Brown) *For Vertical Version:* Heat-Resisting Resin, Glass Reinforced, UL94V-0 Housing Color: Brown Slider Color: Black • Contact: Phosphor Bronze, Tin Alloy Plated

Fig. 1

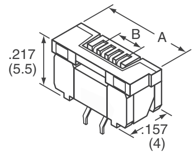

Fig. 2

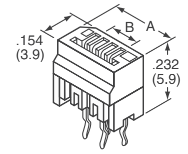

Fig. 3

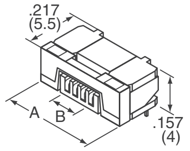

Fig. 4

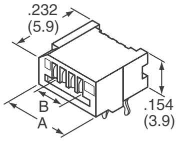

Fig. 5

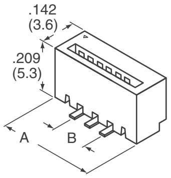

Fig. 6

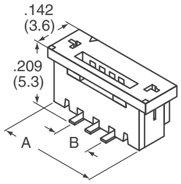

Fig. 7

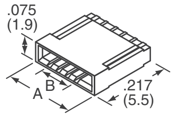

Fig. 8

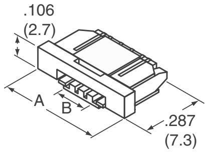

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
SLW Series — Top Entry PC Mount ZIF											
1	4	0.402 (10.20)	0.205 (5.20)	609-1929-ND†	.58	7.16	22.92	—	—	—	SLW4S-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1931-ND†	.54	5.54	17.74	—	—	—	SLW5S-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1933-ND†	.72	7.53	24.08	—	—	—	SLW6S-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1935-ND†	.62	7.55	24.16	—	—	—	SLW8S-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1937-ND†	.67	8.36	26.74	—	—	—	SLW10S-1C7LF
	12	0.717 (18.20)	0.520 (13.20)	609-1939-ND†	1.27	17.48	58.79	—	—	—	SLW12S-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1941-ND†	.77	9.38	31.28	—	—	—	SLW14S-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1943-ND†	1.44	19.40	66.51	—	—	—	SLW15S-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1945-ND†	1.42	19.12	65.54	—	—	—	SLW16S-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1947-ND†	1.08	11.10	37.65	—	—	—	SLW18S-1C7LF

† Bulk

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

1.00mm (0.039") FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		FCI Part No.
		A	B		1	25	100		Qty.	Pricing	
1	20	1.031 (26.20)	0.835 (21.20)	609-1949-ND†	1.09	14.31	48.34	—	—	—	SLW20S-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1951-ND†	.84	10.46	34.01	—	—	—	SLW22S-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1953-ND†	2.31	23.09	79.16	—	—	—	SLW24S-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1955-ND†	.93	10.93	35.51	—	—	—	SLW26S-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1957-ND†	.68	8.53	27.28	—	—	—	SLW28S-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1959-ND†	1.18	16.23	54.58	—	—	—	SLW30S-1C7LF
HLW Series — Top Entry PC Mount LIF											
2	4	0.260 (6.60)	0.118 (3.00)	609-1815-ND†	.25	2.72	8.38	—	—	—	HLW4S-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1817-ND†	.28	3.05	9.46	—	—	—	HLW5S-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1819-ND†	.29	3.16	9.79	—	—	—	HLW6S-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1821-ND†	.32	3.52	10.79	—	—	—	HLW8S-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1823-ND†	.28	3.11	9.62	—	—	—	HLW10S-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1825-ND†	.50	5.87	19.14	—	—	—	HLW12S-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1827-ND†	.31	3.61	11.06	—	—	—	HLW14S-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1829-ND†	.37	4.21	13.55	—	—	—	HLW15S-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1831-ND†	.38	4.31	13.84	—	—	—	HLW16S-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1833-ND†	.41	4.82	15.16	—	—	—	HLW18S-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1835-ND†	.42	4.91	15.44	—	—	—	HLW20S-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1837-ND†	.43	5.11	16.06	—	—	—	HLW22S-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1839-ND†	.42	4.96	15.60	—	—	—	HLW24S-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1841-ND†	.46	5.51	17.62	—	—	—	HLW26S-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1843-ND†	.48	5.70	18.24	—	—	—	HLW28S-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1845-ND†	.45	5.43	17.38	—	—	—	HLW30S-2C7LF
SLW Series — Side Entry PC Mount ZIF											
3	4	0.402 (10.20)	0.205 (5.20)	609-1928-ND†	.55	6.53	21.08	—	—	—	SLW4R-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1930-ND†	.44	5.25	16.79	—	—	—	SLW5R-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1932-ND†	.44	5.25	16.79	—	—	—	SLW6R-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1934-ND†	.59	7.19	23.00	—	—	—	SLW8R-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1936-ND†	.65	7.97	25.50	—	—	—	SLW10R-1C7LF
	12	0.717 (18.20)	0.520 (13.20)	609-1938-ND†	1.28	17.61	59.22	—	—	—	SLW12R-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1940-ND†	.88	10.78	36.56	—	—	—	SLW14R-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1942-ND†	.76	9.11	30.38	—	—	—	SLW15R-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1944-ND†	.79	9.65	32.16	—	—	—	SLW16R-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1946-ND†	.89	10.90	36.95	—	—	—	SLW18R-1C7LF
	20	1.031 (26.20)	0.835 (21.20)	609-1948-ND†	.84	10.45	33.95	—	—	—	SLW20R-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1950-ND†	.90	11.38	36.99	—	—	—	SLW22R-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1952-ND†	.91	11.16	37.85	—	—	—	SLW24R-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1954-ND†	.94	11.70	39.66	—	—	—	SLW26R-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1956-ND†	.74	8.83	29.42	—	—	—	SLW28R-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1958-ND†	1.17	15.38	53.12	—	—	—	SLW30R-1C7LF
SLW-R Series — Side Entry CIC ZIF											
3	5	0.441 (11.20)	0.244 (6.20)	609-3451-ND†	.44	5.25	16.79	—	—	—	SLW5R-5C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-3453-ND†	.47	5.51	17.95	—	—	—	SLW8R-5C7LF
SLW-S Series — Top Entry CIC ZIF											
3	5	0.441 (11.20)	0.244 (6.20)	609-3452-ND†	.47	5.60	18.24	—	—	—	SLW5S-5C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-3454-ND†	.55	6.78	21.90	—	—	—	SLW8S-5C7LF
HLW Series — Side Entry PC Mount LIF											
4	4	0.260 (6.60)	0.118 (3.00)	609-1814-ND†	.23	2.55	7.73	—	—	—	HLW4R-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1816-ND†	.26	2.90	8.69	—	—	—	HLW5R-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1818-ND†	.27	2.91	9.00	—	—	—	HLW6R-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1820-ND†	.31	3.37	10.78	—	—	—	HLW8R-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1822-ND†	.28	3.11	9.62	—	—	—	HLW10R-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1824-ND†	.32	3.47	11.39	—	—	—	HLW12R-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1826-ND†	.35	3.93	12.65	—	—	—	HLW14R-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1828-ND†	.64	7.87	25.18	—	—	—	HLW15R-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1830-ND†	.36	4.12	13.23	—	—	—	HLW16R-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1832-ND†	.38	4.31	13.84	—	—	—	HLW18R-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1834-ND†	.39	4.59	14.43	—	—	—	HLW20R-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1836-ND†	.41	4.78	15.03	—	—	—	HLW22R-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1838-ND†	.41	4.87	15.31	—	—	—	HLW24R-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1840-ND†	.43	5.15	16.19	—	—	—	HLW26R-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1842-ND†	.44	5.25	16.79	—	—	—	HLW28R-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1844-ND†	.45	5.34	17.07	—	—	—	HLW30R-2C7LF
HFW Series — Top Entry SMT Non-ZIF											
5	4	0.276 (7.00)	0.118 (3.00)	609-1105-1-ND	.42	5.25	16.97	609-1105-2-ND	1,000	149.66	HFW4S-2STE1LF
	5	0.315 (8.00)	0.157 (4.00)	609-1106-1-ND	.70	8.80	28.16	609-1106-2-ND	1,000	248.66	HFW5S-2STE1LF
	6	0.354 (9.00)	0.197 (5.00)	609-1107-1-ND	.42	5.25	16.97	609-1107-2-ND	1,000	154.19	HFW6S-2STE1LF
	7	0.394 (10.00)	0.236 (6.00)	609-1108-1-ND	.58	7.07	22.62	609-1108-2-ND	1,000	197.23	HFW7S-2STE1LF
	9	0.472 (12.00)	0.315 (8.00)	609-1110-1-ND	.38	4.71	15.08	609-1110-2-ND	1,000	131.54	HFW9S-2STE1LF
	10	0.512 (13.00)	0.354 (9.00)	609-1111-1-ND	.79	9.99	32.47	609-1111-2-ND	1,000	285.12	HFW10S-2STE1LF
	11	0.551 (14.00)	0.394 (10.00)	609-1112-1-ND	.68	8.33	26.64	—	—	—	HFW11S-2STE1LF
	12	0.591 (15.00)	0.433 (11.00)	609-1113-1-ND	.83	10.16	34.46	609-1113-2-ND	1,000	302.56	HFW12S-2STE1LF
	13	0.630 (16.00)	0.472 (12.00)	609-1114-1-ND	.60	7.41	23.70	609-1114-2-ND	1,000	206.68	HFW13S-2STE1LF
	14	0.670 (17.00)	0.512 (13.00)	609-1115-1-ND	.86	10.75	34.40	609-1115-2-ND	1,000	314.92	HFW14S-2STE1LF
	16	0.748 (19.00)	0.591 (15.00)	609-1117-1-ND	1.01	12.07	40.24	609-1117-2-ND	2,000	350.94/M	HFW16S-2STE1LF
	18	0.827 (21.00)	0.670 (17.00)	609-1119-1-ND	.89	11.11	37.69	609-1119-2-ND	1,000	330.88	HFW18S-2STE1LF
	19	0.866 (22.00)	0.709 (18.00)	609-1120-1-ND	.69	8.41	28.02	609-1120-2-ND	1,000	256.56	HFW19S-2STE1LF
	23	1.024 (26.00)	0.866 (22.00)	609-1124-1-ND	.84	10.54	33.74	—	—	—	HFW23S-2STE1LF
	24	1.063 (27.00)	0.906 (23.00)	609-1125-1-ND	.79	9.70	32.32	609-1125-2-ND	1,000	276.64	HFW24S-2STE1LF
	26	1.142 (29.00)	0.984 (25.00)	609-1127-1-ND	.95	11.86	38.55	609-1127-2-ND	1,000	355.36	HFW26S-2STE1LF
	27	1.181 (30.00)	1.024 (26.00)	609-1128-1-ND	.89	11.12	36.13	609-1128-2-ND	1,000	317.28	HFW27S-2STE1LF
	28	1.220 (31.00)	1.063 (27.00)	609-1129-1-ND	1.04	14.26	47.95	609-1129-2-ND	1,000	466.08	HFW28S-2STE1LF
SFW Series — Top Entry SMT ZIF (without Mounting Plate)											
6	4	0.409 (10.40)	0.118 (3.00)	609-1132-1-ND	.94	11.82	38.42	609-1132-2-ND	1,000	337.28	SFW4S-2STE1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1134-1-ND	.91	11.36	36.93	609-1134-2-ND	1,000	324.32	SFW5S-2STE1LF
	6	0.488 (12.40)	0.197 (5.00)	609-1136-1-ND	.94	11.52	39.08	609-1136-2-ND	1,000	343.04	SFW6S-2STE1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1139-1-ND	1.01	12.64	41.07	609-1139-2-ND	1,000	360.48	SFW8S-2STE1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1140-1-ND	1.03	12.54	42.53	609-1140-2-ND	1,000	373.44	SFW10S-2STE1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1142-1-ND	.85	10.65	36.13	609-1142-2-ND	1,000	317.28	SFW11S-2STE1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1144-1-ND	.86	10.97	37.19	609-1144-2-ND	2,000	326.40/M	SFW12S-2STE1LF

† Bulk

(Continued)

FCI 1.00mm (0.039”) FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
6	15	0.843 (21.40)	0.551 (14.00)	609-1148-1-ND	1.01	12.91	43.80	609-1148-2-ND	1,000	384.48	SFW15S-2STE1LF
	16	0.882 (22.40)	0.591 (15.00)	609-1150-1-ND	1.12	14.34	48.63	609-1150-2-ND	1,000	427.04	SFW16S-2STE1LF
	18	0.961 (24.40)	0.670 (17.00)	609-1154-1-ND	1.09	13.87	47.03	609-1154-2-ND	1,000	400.06	SFW18S-2STE1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1156-1-ND	1.29	15.53	51.76	609-1156-2-ND	1,000	451.35	SFW20S-2STE1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1162-1-ND	1.42	19.55	65.77	609-1162-2-ND	1,000	582.01	SFW24S-2STE1LF
	26	1.276 (32.40)	0.984 (25.00)	609-1164-1-ND	1.19	15.53	52.44	609-1164-2-ND	1,000	457.72	SFW26S-2STE1LF
	28	1.354 (34.40)	1.063 (27.00)	609-1166-1-ND	1.40	19.78	64.73	609-1166-2-ND	1,000	577.20	SFW28S-2STE1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1168-1-ND	1.29	16.85	58.22	609-1168-2-ND	1,000	508.09	SFW30S-2STE1LF
SFW Series — Top Entry SMT ZIF with Mounting Plate											
6	4	0.409 (10.40)	0.118 (3.00)	609-1133-1-ND	.92	11.52	39.08	609-1133-2-ND	1,000	343.04	SFW4S-2STME1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1135-1-ND	.93	11.42	38.73	609-1135-2-ND	1,000	340.00	SFW5S-2STME1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1138-1-ND	1.07	13.14	44.58	609-1138-2-ND	1,000	391.36	SFW8S-2STME1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1141-1-ND	1.11	13.58	46.04	609-1141-2-ND	1,000	404.16	SFW10S-2STME1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1143-1-ND	.90	11.22	37.89	609-1143-2-ND	1,000	330.77	SFW11S-2STME1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1145-1-ND	.87	11.15	37.68	609-1145-2-ND	1,000	328.91	SFW12S-2STME1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1157-1-ND	1.26	16.46	55.59	609-1157-2-ND	2,000	485.31/M	SFW20S-2STME1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1163-1-ND	.92	12.12	40.95	609-1163-2-ND	1,000	357.43	SFW24S-2STME1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1169-1-ND	1.48	20.36	68.47	609-1169-2-ND	1,000	605.88	SFW30S-2STME1LF
HFW Series — Side Entry SMT LIF, Lower Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1782-1-ND	.68	8.48	27.12	609-1782-2-ND	4,000	222.01/M	HFW4R-1STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1784-1-ND	.50	5.85	18.90	609-1784-2-ND	2,000	154.08/M	HFW5R-1STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1786-1-ND	.50	6.08	19.64	609-1786-2-ND	2,000	168.16/M	HFW6R-1STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1788-1-ND	.78	9.91	32.19	609-1788-2-ND	2,000	274.34/M	HFW8R-1STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1790-1-ND	.79	9.99	32.47	609-1790-2-ND	2,000	267.30/M	HFW10R-1STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1792-1-ND	.50	6.18	19.76	609-1792-2-ND	2,000	163.84/M	HFW12R-1STE1LF
	14	0.654 (16.60)	0.512 (13.00)	609-1794-1-ND	.89	11.41	38.69	609-1794-2-ND	2,000	318.45/M	HFW14R-1STE1LF
	18	0.811 (20.60)	0.670 (17.00)	609-1800-1-ND	.89	11.11	37.69	609-1800-2-ND	2,000	310.20/M	HFW18R-1STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1802-1-ND	.58	6.94	23.12	609-1802-2-ND	2,000	189.26/M	HFW20R-1STE1LF
HFW Series — Side Entry SMT LIF, Upper Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1783-1-ND	.77	9.61	31.22	609-1783-2-ND	2,000	256.95/M	HFW4R-2STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1785-1-ND	.51	6.14	19.85	609-1785-2-ND	2,000	161.76/M	HFW5R-2STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1787-1-ND	.35	4.23	13.65	609-1787-2-ND	2,000	106.49/M	HFW6R-2STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1789-1-ND	.99	12.22	39.48	609-1789-2-ND	4,000	286.71/M	HFW8R-2STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1791-1-ND	.73	9.19	29.85	609-1791-2-ND	2,000	245.70/M	HFW10R-2STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1793-1-ND	.92	11.26	36.02	609-1793-2-ND	2,000	279.42/M	HFW12R-2STE1LF
	16	0.732 (18.60)	0.591 (15.00)	609-1799-1-ND	.53	6.44	20.62	609-1799-2-ND	2,000	170.97/M	HFW16R-2STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1803-1-ND	1.31	15.76	52.52	609-1803-2-ND	2,000	429.93/M	HFW20R-2STE1LF
	22	0.969 (24.60)	0.827 (21.00)	609-1805-1-ND	.68	8.53	27.28	609-1805-2-ND	2,000	234.40/M	HFW22R-2STE1LF
	24	1.047 (26.60)	0.906 (23.00)	609-1807-1-ND	1.19	14.60	48.66	609-1807-2-ND	2,000	398.26/M	HFW24R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1883-1-ND	.91	11.36	38.53	609-1883-2-ND	4,000	317.10/M	SFW4R-1STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1887-1-ND	.91	11.59	39.31	609-1887-2-ND	2,000	323.55/M	SFW5R-1STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1889-1-ND	1.24	15.26	48.82	609-1889-2-ND	2,000	404.86/M	SFW6R-1STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1893-1-ND	.79	9.97	32.41	609-1893-2-ND	2,000	266.70/M	SFW8R-1STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1897-1-ND	1.00	13.13	44.35	609-1897-2-ND	2,000	374.55/M	SFW10R-1STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1900-1-ND	.89	11.11	37.67	609-1900-2-ND	4,000	325.65/M	SFW12R-1STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1902-1-ND	.90	11.52	39.08	609-1902-2-ND	2,000	321.60/M	SFW14R-1STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1905-1-ND	.97	12.35	41.71	609-1905-2-ND	2,000	334.74/M	SFW15R-1STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1907-1-ND	1.15	15.75	52.98	609-1907-2-ND	2,000	450.38/M	SFW16R-1STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1911-1-ND	.97	12.71	42.92	609-1911-2-ND	2,000	362.55/M	SFW18R-1STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1913-1-ND	1.41	19.46	66.73	609-1913-2-ND	2,000	575.07/M	SFW20R-1STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1916-1-ND	1.03	13.48	46.55	609-1916-2-ND	2,000	393.30/M	SFW22R-1STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1919-1-ND	1.03	14.14	47.56	609-1919-2-ND	2,000	398.90/M	SFW24R-1STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1921-1-ND	1.54	20.82	72.85	609-1921-2-ND	2,000	634.70/M	SFW26R-1STE1LF
	28	1.331 (33.80)	1.063 (27.00)	609-1924-1-ND	1.26	15.75	53.20	609-1924-2-ND	2,000	449.40/M	SFW28R-1STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1926-1-ND	1.25	17.68	57.85	609-1926-2-ND	2,000	498.66/M	SFW30R-1STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1884-1-ND	.88	10.98	37.23	609-1884-2-ND	4,000	306.45/M	SFW4R-2STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1888-1-ND	.88	10.98	37.23	609-1888-2-ND	2,000	321.60/M	SFW5R-2STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1890-1-ND	1.02	13.47	45.49	609-1890-2-ND	2,000	384.30/M	SFW6R-2STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1894-1-ND	.78	9.74	31.65	609-1894-2-ND	4,000	260.55/M	SFW8R-2STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1898-1-ND	1.19	14.88	47.60	609-1898-2-ND	2,000	389.69/M	SFW10R-2STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1901-1-ND	1.06	14.59	49.06	609-1901-2-ND	2,000	411.51/M	SFW12R-2STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1903-1-ND	1.19	16.35	55.00	609-1903-2-ND	2,000	461.25/M	SFW14R-2STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1906-1-ND	.93	11.59	39.14	609-1906-2-ND	2,000	314.07/M	SFW15R-2STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1908-1-ND	.95	11.94	40.32	609-1908-2-ND	2,000	323.62/M	SFW16R-2STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1912-1-ND	1.19	16.34	54.95	609-1912-2-ND	4,000	460.81/M	SFW18R-2STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1914-1-ND	1.07	14.00	48.37	609-1914-2-ND	2,000	408.60/M	SFW20R-2STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1917-1-ND	1.03	13.52	46.70	609-1917-2-ND	2,000	394.50/M	SFW22R-2STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1920-1-ND	1.46	20.43	70.04	609-1920-2-ND	2,000	593.23/M	SFW24R-2STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1922-1-ND	1.34	18.04	61.87	609-1922-2-ND	2,000	533.31/M	SFW26R-2STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1927-1-ND	1.64	22.13	77.44	609-1927-2-ND	2,000	674.74/M	SFW30R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type with Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1885-1-ND	.87	10.64	36.08	609-1885-2-ND	2,000	296.85/M	SFW4R-3STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1891-1-ND	.76	9.55	31.02	609-1891-2-ND	2,000	255.30/M	SFW6R-3STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1895-1-ND	.95	11.82	39.92	609-1895-2-ND	2,000	320.34/M	SFW8R-3STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1904-1-ND	1.15	15.86	53.35	609-1904-2-ND	2,000	453.60/M	SFW14R-3STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1909-1-ND	1.13	13.87	46.22	609-1909-2-ND	2,000	397.34/M	SFW16R-3STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1923-1-ND	1.12	15.35	51.62	609-1923-2-ND	2,000	417.90/M	SFW26R-3STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type with Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1886-1-ND	.80	9.78	31.30	609-1886-2-ND	2,000	259.63/M	SFW4R-4STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1892-1-ND	.79	9.94	32.31	609-1892-2-ND	2,000	257.09/M	SFW6R-4STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1896-1-ND	.84	10.23	34.69	609-1896-2-ND	2,000	276.08/M	SFW8R-4STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1899-1-ND	.87	10.93	37.05	609-1899-2-ND	2,000	320.25/M	SFW10R-4STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1910-1-ND	1.13	13.87	46.22	609-1910-2-ND	2,000	352.41/M	SFW16R-4STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1915-1-ND	1.03	13.04	42.39	609-1915-2-ND	2,000	331.46/M	SFW20R-4STE1LF

† Bulk

molex

0.5mm Pitch Standard Length Jumper — Unshielded Flat Flex Cable

Specifications:

Electrical: • **Voltage:** 30V • **Current:** 0.5A

Physical: Strip Length: 4.0mm (.157") • **Reinforcement Length:** 6.00mm (.236") • **Conductor Width:** 0.30mm (.012") • **Conductor Thickness:** 0.10 mm (.004") • **End Thickness:** 0.30 ±0.05mm (.012 ±.002") • **Temperature Range:** -40°C ~ 80°C

Reference Information: • UL Style No. 2896 • Mates with any 0.50mm (.020") Pitch Molex FFC/FPC Connector

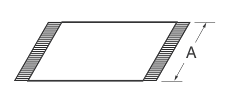

No. of Positions	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
			1.18" (30mm)				
6	3.5	WM14311-ND	4.65	3.89	2.85	2.42	21020-0051
10	5.5	WM14313-ND	4.66	3.89	2.86	2.42	21020-0095
20	10.5	WM14317-ND	5.70	4.75	3.49	2.95	21020-0205
24	12.5	WM14318-ND	4.45	3.71	2.72	2.31	21020-0249
30	15.5	WM14319-ND	5.70	4.75	3.48	2.96	21020-0315
36	18.5	WM14325-ND	5.69	4.75	3.48	2.95	21020-0381
40	20.5	WM14321-ND	5.70	4.75	3.48	2.96	21020-0425
50	25.5	WM14323-ND	6.04	5.04	3.69	3.14	21020-3050
			2.00" (51mm)				
6	3.5	WM10200-ND	4.14	3.45	2.54	2.14	21020-0053
10	5.5	WM10201-ND	4.14	3.46	2.53	2.15	21020-0097
20	10.5	WM10202-ND	3.08	2.56	1.92	1.77	21020-0207
24	12.5	WM10203-ND	4.35	3.63	2.66	2.25	21020-0251
30	15.5	WM10204-ND	4.40	3.67	2.69	2.28	21020-0317
36	18.5	WM10205-ND	4.46	3.72	2.73	2.30	21020-0383
40	20.5	WM10206-ND	4.50	3.75	2.76	2.33	21020-0427
50	25.5	WM10207-ND	4.93	4.12	3.01	2.56	21020-0543
			3.00" (76mm)				
6	3.5	WM10224-ND	4.66	3.88	2.85	2.41	21020-0055
8	4.5	WM10248-ND	4.66	3.88	2.85	2.42	21020-0077
10	5.5	WM10225-ND	3.73	3.11	2.29	1.94	21020-0099
12	6.5	WM10249-ND	4.65	3.88	2.85	2.41	21020-0121
14	7.5	WM10250-ND	4.66	3.88	2.85	2.42	21020-0143
16	8.5	WM10251-ND	4.66	3.89	2.86	2.42	21020-0165
20	10.5	WM10226-ND	4.65	3.88	2.85	2.41	21020-0209

No. of Positions	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
24	12.5	WM10227-ND	4.65	3.88	2.85	2.41	21020-0253
30	15.5	WM10228-ND	4.65	3.89	2.85	2.42	21020-0319
36	18.5	WM10229-ND	4.72	3.94	2.88	2.46	21020-0385
40	20.5	WM10230-ND	4.66	3.88	2.84	2.41	21020-0429
50	25.5	WM10231-ND	4.94	4.12	3.03	2.56	21020-7650
			4.00" (102mm)				
6	3.5	WM10208-ND	4.65	3.89	2.85	2.41	21020-0057
10	5.5	WM10209-ND	3.47	2.90	2.13	1.80	21020-0101
20	10.5	WM10210-ND	4.92	4.10	3.00	2.55	21020-0211
24	12.5	WM10211-ND	5.02	4.18	3.08	2.60	21020-0255
30	15.5	WM10212-ND	5.18	4.32	3.17	2.68	21020-0321
36	18.8	WM10213-ND	5.76	4.81	3.53	2.99	21020-0387
40	20.5	WM10214-ND	5.43	4.54	3.33	2.81	21020-0431
50	25.5	WM10215-ND	6.03	5.03	3.69	3.13	21020-0547
			5.00" (127mm)				
6	3.5	WM10232-ND	5.69	4.74	3.48	2.96	21020-0059
10	5.5	WM10233-ND	5.69	4.75	3.48	2.96	21020-0103
20	10.5	WM10234-ND	5.69	4.75	3.48	2.95	21020-0213
24	12.5	WM10235-ND	5.69	4.74	3.48	2.95	21020-0257
30	15.5	WM10236-ND	5.70	4.75	3.48	2.94	21020-0323
36	18.8	WM10237-ND	5.70	4.74	3.48	2.96	21020-0389
40	20.5	WM10238-ND	5.69	4.75	3.48	2.95	21020-0433
50	25.5	WM10239-ND	6.04	5.05	4.88	4.16	21020-2750
			6.00" (152mm)				
6	3.5	WM10216-ND	5.69	4.75	3.48	2.95	21020-0061
10	5.5	WM10217-ND	5.69	4.74	3.49	2.95	21020-0105
20	10.5	WM10218-ND	5.69	4.74	3.49	2.95	21020-0215
24	12.5	WM10219-ND	5.96	4.96	3.65	3.09	21020-0259
30	15.5	WM10220-ND	6.20	5.19	3.79	3.22	21020-0325
36	18.5	WM10221-ND	6.37	5.31	3.90	3.30	21020-0391
40	20.5	WM10222-ND	7.59	6.32	4.65	3.94	21020-0435
50	25.5	WM10223-ND	7.12	5.95	4.35	3.70	21020-0548
			8.00" (203mm)				
6	3.5	WM10240-ND	5.69	4.75	3.48	2.95	21020-0065
10	5.5	WM10241-ND	5.69	4.75	3.48	2.95	21020-0109
20	10.5	WM10242-ND	5.70	4.74	3.49	2.96	21020-0219
24	12.5	WM10243-ND	5.95	4.95	3.64	3.08	21020-0263
30	15.5	WM10244-ND	6.21	5.19	3.80	3.21	21020-0329
36	18.5	WM10245-ND	6.37	5.30	3.90	3.29	21020-0395
40	20.5	WM10246-ND	6.48	5.39	3.97	3.36	21020-0439
50	25.5	WM10247-ND	7.13	5.95	4.36	3.70	21020-0574

Kit

WM1046-ND (76650-0005) **FFC/FPC Connector Kit**; (Ultra Low Profile SMT ZIF Right Angle Receptacle and Premo-Flex Cable) **$51.31**

0.25mm FPC Easy-On™ Connectors

Specifications:
Electrical: • **Voltage:** 50V • **Current:** 0.2A • **Contact Resistance:** Odd terminals: 80mΩ maximum; Even terminals: 50mΩ maximum • Insulation Resistance: 50MΩ minimum • **Dielectric Strength:** 150VAC

Physical: • **Flammability:** UL94V-0 • **Materials: Housing:** Glass-filled heat resistant plastic (Beige); **Actuator:** Glass-filled heat resistant plastic (Black); **Terminal:** Copper Alloy, Gold over nickel plating; **Fitting Nail:** Copper Alloy, Tin over nickel plating

No. of Positions	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
			Right Angle, SMT — Bottom Contact Style				
21	7	WM2229-ND	3.15	2.42	1.94	1.75	502078-2110-C
25	8	WM2230-ND	3.59	2.77	2.22	2.00	502078-2510-C
39	11.5	WM2231-ND	4.19	3.23	2.59	2.33	502078-3910-C

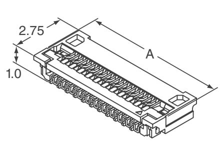

0.3mm FPC SMT Connectors

Specifications:

Electrical:
- **Voltage:** 50VAC (RMS)/DC maximum
- **Contact Resistance:** 80mΩ maximum
- **Withstanding Voltage:** 250V AC/1 minute
- **Insulation Resistance:** 50MΩ minimum

Physical:
- **Housing Material:** Liquid Crystal Polymer
- **Flammability:** UL94V-0
- **Actuator:** PA Polyamide (Nylon) 4/6
- **Temperature Range:** -20°C ~ 85°C
- **Contact:** Phosphor Bronze
- **Contact Position:** Bottom

Fig. 1

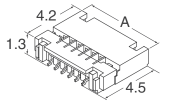

Fig. 2

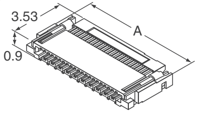

Fig. 3

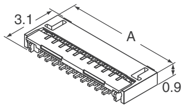

Fig. 4

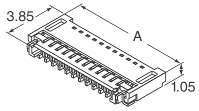

Fig. 5

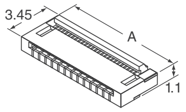

Fig. 6

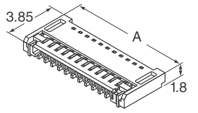

Fig. 7

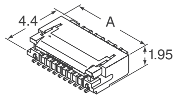

No. of Positions	Maximum Current (A)	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
				Fig. 1 — ZIF, Bottom Contact Style, Tin/Bismuth				
11	0.3	5.8	WM1512-ND	1.76	1.36	1.09	.98	54809-1198-C
15	0.3	7.0	WM1513-ND	2.42	1.86	1.49	1.34	54809-1598-C
19	0.3	8.2	WM1514-ND	3.08	2.37	1.90	1.71	54809-1998-C
21	0.3	8.8	WM1515-ND	3.35	2.58	2.07	1.86	54809-2198-C
25	0.3	10.0	WM1516-ND	3.48	2.68	2.15	1.93	54809-2598-C
27	0.3	10.6	WM1517-ND	3.73	2.88	2.30	2.07	54809-2798-C
31	0.3	11.8	WM1518-ND	4.28	3.30	2.64	2.38	54809-3198-C
33	0.3	12.4	WM1519-ND	4.45	3.43	2.74	2.47	54809-3398-C
39	0.3	14.2	WM1520-ND	4.56	3.51	2.81	2.53	54809-3998-C
45	0.3	16.0	WM1521-ND	4.20	3.23	2.59	2.33	54809-4598-C
51	0.3	17.8	WM1522-ND	7.03	5.41	4.33	3.90	54809-5198-C

No. of Positions	Maximum Current (A)	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
				Fig. 2 — Dual Contact Style, Gold				
17	0.2	6.9	WM2232-ND	2.43	1.87	1.50	1.35	502250-1791-C
21	0.2	8.1	WM2233-ND	3.00	2.31	1.85	1.67	502250-2191-C
23	0.2	8.7	WM2234-ND	3.29	2.53	2.03	1.82	502250-2391-C
27	0.2	9.9	WM2235-ND	3.86	2.97	2.38	2.14	502250-2791-C
33	0.2	11.7	WM2236-ND	4.72	3.63	2.91	2.62	502250-3391-C
35	0.2	12.3	WM2237-ND	5.01	3.86	3.09	2.78	502250-3591-C
39	0.2	13.5	WM2238-ND	5.58	4.30	3.44	3.10	502250-3991-C
41	0.2	14.1	WM2239-ND	5.87	4.52	3.62	3.25	502250-4191-C
				Fig. 3 — Bottom Contact Style, Gold				
21	0.2	8.4	WM2183-ND	3.51	2.70	2.16	1.95	501628-2191-C
27	0.2	10.2	WM2184-ND	4.51	3.48	2.78	2.51	501628-2791-C

(Continued)

molex 0.3mm FPC SMT Connectors *(Cont.)*

No. of Positions	Maximum Current (A)	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
33	0.2	12.0	WM2185-ND	5.01	3.86	3.09	2.78	501628-3391-C
35	0.2	12.6	WM2186-ND	5.32	4.10	3.28	2.95	501628-3591-C
39	0.2	13.8	WM2187-ND	5.77	4.44	3.56	3.20	501628-3991-C
45	0.2	15.6	WM2188-ND	6.66	5.12	4.10	3.69	501628-4591-C
51	0.2	17.4	WM2189-ND	7.54	5.80	4.65	4.18	501628-5191-C
Fig. 4 — Bottom Contact Style, Gold								
11	0.2	5.4	WM2190-ND	1.87	1.44	1.15	1.04	500797-1194-C
15	0.2	6.6	WM2191-ND	1.98	1.53	1.22	1.10	500797-1594-C
23	0.2	9.0	WM2192-ND	2.10	1.62	1.30	1.17	500797-2394-C
25	0.2	9.6	WM2193-ND	2.36	1.82	1.46	1.31	500797-2594-C
27	0.2	10.2	WM2194-ND	2.42	1.86	1.49	1.34	500797-2794-C
31	0.2	11.4	WM2195-ND	2.53	1.95	1.56	1.40	500797-3194-C
33	0.2	12.0	WM2196-ND	2.64	2.03	1.63	1.46	500797-3394-C
35	0.2	12.6	WM2197-ND	2.69	2.07	1.66	1.50	500797-3594-C
41	0.2	14.4	WM2198-ND	2.91	2.24	1.80	1.62	500797-4194-C
Fig. 5 — Top Contact Style, ZIF, Gold								
19	0.2	7.6	WM2199-ND	1.95	1.50	1.20	1.08	501616-1975-C
25	0.2	9.4	WM2201-ND	2.25	1.73	1.39	1.25	501616-2575-C
27	0.2	10.0	WM2202-ND	2.40	1.85	1.48	1.33	501616-2775-C
29	0.2	10.6	WM2203-ND	2.55	1.96	1.57	1.42	501616-2975-C
35	0.2	12.4	WM2204-ND	3.35	2.58	2.06	1.86	501616-3585-C
39	0.2	13.6	WM2205-ND	3.59	2.77	2.22	2.00	501616-3985-C
41	0.2	14.2	WM2206-ND	3.69	2.85	2.28	2.05	501616-4185-C
45	0.2	15.4	WM2207-ND	3.74	2.89	2.31	2.08	501616-4585-C
51	0.2	17.2	WM2208-ND	5.09	3.92	3.14	2.83	501616-5185-C
Fig. 6 — Bottom Contact Style, Easy On™, Gold								
15	0.2	6.6	WM2209-ND	1.26	.98	.78	.70	501912-1590-C
21	0.2	8.4	WM2210-ND	1.60	1.23	.99	.89	501912-2190-C
23	0.2	9.0	WM2211-ND	1.92	1.48	1.19	1.07	501912-2390-C
25	0.2	9.6	WM2212-ND	2.09	1.61	1.29	1.16	501912-2590-C
27	0.2	10.2	WM2213-ND	2.17	1.67	1.34	1.21	501912-2790-C
33	0.2	12.0	WM2214-ND	2.75	2.12	1.69	1.53	501912-3390-C
35	0.2	12.6	WM2215-ND	2.91	2.24	1.80	1.62	501912-3590-C
37	0.2	13.2	WM2216-ND	3.08	2.37	1.90	1.71	501912-3790-C
39	0.2	13.8	WM2217-ND	3.26	2.51	2.01	1.81	501912-3990-C
41	0.2	14.4	WM2218-ND	3.43	2.64	2.11	1.90	501912-4190-C
45	0.2	15.6	WM2219-ND	3.77	2.90	2.32	2.09	501912-4590-C
47	0.2	16.2	WM2220-ND	3.94	3.04	2.43	2.19	501912-4790-C
Fig. 7 — Bottom Contact Style, Easy On™, ZIF, Gold								
17	0.2	7.6	WM2221-ND	2.25	1.73	1.39	1.25	54393-1781-C
21	0.2	8.8	WM2222-ND	2.78	2.14	1.71	1.54	54393-2181-C
23	0.2	9.4	WM2223-ND	3.05	2.35	1.88	1.69	54393-2381-C
27	0.2	10.6	WM2224-ND	3.15	2.42	1.94	1.75	54393-2781-C
33	0.2	12.4	WM2225-ND	3.83	2.95	2.36	2.13	54393-3381-C
39	0.2	14.2	WM2226-ND	4.03	3.11	2.49	2.24	54393-3981-C
45	0.2	16.0	WM2227-ND	4.84	3.73	2.98	2.68	54393-4581-C
51	0.2	17.8	WM2228-ND	5.14	3.96	3.17	2.85	54393-5181-C

Kit

WM1045-ND (76650-0004) **FPC Connector Kit**; (Ultra Low Profile SMT ZIF Right Angle Receptacle) **$33.76**

0.5mm FFC/FPC Connectors

Digi-Reel®

Specifications:

Electrical: • **Voltage:** 50V • **Insulation Resistance:** 50MΩ minimum • **Flammability:** UL94V-0 • **Actuator:** Polyphenylene Sulfide *Note: Please see Digi-Key's website for data sheets.*

Fig. 1

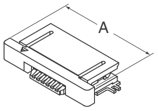

Fig. 2

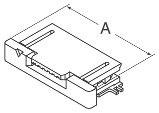

Fig. 3

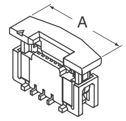

Fig. 4

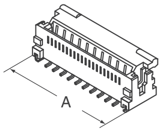

Fig. 5

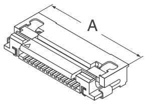

Fig. 6 ***NEW!***

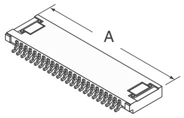

Fig. 7

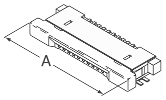

Fig. 8

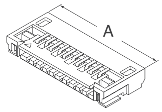

Fig. 9

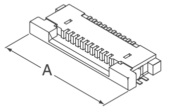

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Molex Part No.
Bottom Contact Style									
Tin Plated Alternative									
1	12	12.10	WM2157CT-ND	2.70	2.31	1.80	—	—	52746-1270
	16	14.10	WM2159CT-ND	3.27	2.80	2.18	—	—	52746-1670
	18	15.10	WM2160CT-ND	3.48	2.98	2.32	1,000	1352.00	52746-1870
	36	23.50	WM7705CT-ND	2.06	1.75	1.35	1,500	972.82/M	54132-3697
	40	25.50	WM7706CT-ND	4.32	3.70	2.88	1,500	1678.00/M	54132-4097
	50	30.50	WM7707CT-ND	2.72	2.49	1.90	1,500	1399.84/M	54132-5097
Gold Plated Alternative									
1	6	9.10	WM7977CT-ND	.98	.84	.66	1,000	380.00	52746-0671
	10	11.10	WM7978CT-ND	3.15	2.70	2.10	1,000	1225.00	52746-1071
	20	16.10	WM7979CT-ND	1.76	1.49	1.16	1,000	892.00	52746-2071
	24	18.60	WM7980CT-ND	4.69	4.02	3.13	1,000	1825.00	52437-2471
	30	21.60	WM7981CT-ND	5.52	4.73	3.69	1,000	2147.00	52437-3071
Top Contact Style									
Tin Plated Alternative									
2	10	11.10	WM7709CT-ND	1.69	1.45	1.13	1,000	656.60	52745-1096
	22	17.60	WM2170CT-ND	3.33	2.85	2.22	1,000	1295.00	52435-2272
	28	20.60	WM2171CT-ND	3.85	3.30	2.57	—	—	52435-2872
	40	25.50	WM7713CT-ND	4.40	3.77	2.94	1,500	1713.00/M	54104-4096
	50	30.50	WM7714CT-ND	2.62	2.22	1.72	1,500	1236.88/M	54104-5096
Gold Plated Alternative									
2	6	9.10	WM7972CT-ND	1.38	1.19	.93	1,000	537.00	52745-0697
	10	11.10	WM7973CT-ND	1.43	1.22	.94	1,000	725.87	52745-1097
	20	16.10	WM7974CT-ND	2.93	2.51	1.96	1,000	1140.00	52745-2097
	24	18.60	WM7975CT-ND	2.24	1.90	1.47	1,000	1133.47	52435-2471
	30	21.60	WM7976CT-ND	4.20	3.60	2.80	1,000	1632.00	52435-3071
Vertical Contact Style									
Tin Plated Alternative									
3	6	8.70	WM7715CT-ND	1.76	1.51	1.18	1,000	686.35	52559-0672
	8	9.70	WM2165CT-ND	2.28	1.95	1.52	1,000	886.00	52559-0870
	10	10.70	WM7716CT-ND	2.18	1.87	1.46	—	—	52559-1072
	18	14.70	WM2166CT-ND	3.63	3.11	2.42	1,000	1410.00	52559-1870
	20	15.70	WM7717CT-ND	3.64	3.12	2.43	—	—	52559-2072
3	22	16.70	WM2167CT-ND	2.61	2.24	1.74	1,000	1014.00	52559-2270
	25	18.20	WM2168CT-ND	4.20	3.59	2.80	1,000	1632.00	52559-2570
	30	20.70	WM7719CT-ND	5.30	4.54	3.54	1,000	2062.03	52559-3072
	36	23.70	WM7720CT-ND	5.83	4.99	3.89	1,000	2267.83	52559-3672
	40	25.70	WM7721CT-ND	5.97	5.11	3.98	1,000	2318.05	52559-4072
Gold Plated Alternative									
3	6	8.70	WM7982CT-ND	1.85	1.58	1.24	1,000	718.00	52559-0652
	10	10.70	WM7983CT-ND	1.43	1.22	.94	1,000	725.87	52559-1052
	12	11.70	WM7984CT-ND	2.76	2.37	1.85	1,000	1075.00	52559-1252
	20	15.70	WM7985CT-ND	4.59	3.93	3.06	1,000	1785.00	52559-2052
	24	17.70	WM7986CT-ND	4.80	4.11	3.20	1,000	1866.00	52559-2452
	30	20.70	WM7987CT-ND	5.73	4.91	3.83	1,000	2230.00	52559-3052
	36	23.70	WM7988CT-ND	6.93	5.94	4.63	1,000	2696.00	52559-3652
	40	25.70	WM7989CT-ND	7.86	6.73	5.24	1,000	3056.00	52559-4052
Right Angle, SMT, ZIF									
5	30	19.6	WM1533CT-ND	3.10	2.66	2.07	1,000	1206.00	52892-3095
NEW! Right Angle, SMT, Non-ZIF NEW!									
6	24	14.1	WM6240CT-ND	1.57	1.30	.98	3,000	653.00/M	51281-2494

† For Tape and Reel Part Number, change CT-ND to TR-ND.

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Vertical, SMT, ZIF							
4	24	15.1	WM2073-ND	1.76	1.36	1.09	501951-2400-C
	30	18.1	WM2074-ND	1.98	1.53	1.22	501951-3000-C
	40	23.1	WM2075-ND	2.20	1.69	1.36	501951-4000-C
	45	25.6	WM2076-ND	2.47	1.91	1.53	501951-4500-C
	50	28.1	WM2077-ND	2.75	2.12	1.69	501951-5000-C
	60	33.1	WM2078-ND	3.30	2.54	2.03	501951-6000-C
Right Angle, SMT, ZIF — Bottom Contact Style							
5	8	8.6	WM1523-ND	1.09	.84	.67	52892-0895-C
	10	9.6	WM1524-ND	1.09	.84	.67	52892-1095-C
	12	10.6	WM1525-ND	1.10	.85	.68	52892-1295-C
	14	11.6	WM1526-ND	1.28	.99	.79	52892-1495-C
	16	12.6	WM1527-ND	1.47	1.13	.91	52892-1695-C
	18	13.6	WM1528-ND	1.65	1.27	1.02	52892-1895-C

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex 0.5mm FFC/FPC Connectors *(Cont.)*

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
5	20	14.6	WM1529-ND	1.93	1.49	1.19	52892-2095-C
	24	16.6	WM1530-ND	2.09	1.61	1.29	52892-2495-C
	26	17.6	WM1531-ND	2.24	1.73	1.38	52892-2695-C
	28	18.6	WM1532-ND	2.38	1.83	1.47	52892-2895-C
7	6	8.2	WM1544-ND	1.49	1.15	.92	54548-0670-C
	8	9.2	WM1545-ND	1.75	1.35	1.08	54548-0870-C
	10	10.2	WM1546-ND	2.09	1.61	1.29	54548-1070-C
	12	11.2	WM1547-ND	2.33	1.79	1.44	54548-1270-C
	16	13.2	WM1548-ND	2.82	2.18	1.74	54548-1670-C
	18	14.2	WM1549-ND	3.00	2.31	1.85	54548-1870-C
	20	15.2	WM1550-ND	3.23	2.49	1.99	54548-2070-C
	24	17.2	WM1551-ND	3.82	2.94	2.35	54548-2470-C
	26	18.2	WM1552-ND	4.12	3.18	2.54	54548-2670-C
8	6	5.3	WM1553-ND	2.26	1.74	1.40	51441-0693-C
	8	6.3	WM1554-ND	2.42	1.86	1.49	51441-0893-C
	10	7.3	WM1555-ND	2.75	2.12	1.70	51441-1093-C
8	12	8.3	WM1556-ND	2.98	2.29	1.84	51441-1293-C
	16	10.3	WM1557-ND	3.01	2.32	1.85	51441-1693-C
	18	11.3	WM1558-ND	3.53	2.72	2.17	51441-1893-C
	20	12.3	WM1559-ND	3.38	2.61	2.09	51441-2093-C
	22	13.3	WM1560-ND	3.40	2.62	2.10	51441-2293-C
	24	14.3	WM1561-ND	3.73	2.87	2.30	51441-2493-C
Right Angle, SMT, ZIF — Top Contact Style							
9	6	8.2	WM1534-ND	1.49	1.15	.92	54550-0694-C
	8	9.2	WM1535-ND	1.75	1.35	1.08	54550-0894-C
	10	10.2	WM1536-ND	2.09	1.61	1.29	54550-1094-C
	12	11.2	WM1537-ND	2.29	1.76	1.41	54550-1294-C
	14	12.2	WM1538-ND	2.64	2.03	1.63	54550-1494-C
	16	13.2	WM1539-ND	2.83	2.18	1.74	54550-1694-C
	18	14.2	WM1540-ND	3.00	2.32	1.85	54550-1894-C
	20	15.2	WM1541-ND	3.24	2.49	2.00	54550-2094-C
	24	17.2	WM1542-ND	3.82	2.94	2.35	54550-2494-C
	26	18.2	WM1543-ND	4.13	3.18	2.55	54550-2694-C

Kit

WM1051-ND (76650-0050) Wire Tap Connector Kit; (Nylon Tap-and-Run Splice Wire Tap and Nylon Insulated Male Quick Disconnect Solderless Terminals) **$6.49**

1mm FFC/FPC Connectors

Features:

Right Angle: For 0.30mm thick FFC/FPC. Metal solder tabs provide PCB hold-down and strain relief for SMT tails. • **Material:** 4/6 nylon, UL94V-0 • **Actuator:** PPS, UL94V-0 • **Contact:** Phosphor Bronze • **Tabs:** Phosphor Bronze, Tin Plating • **Contact Resistance:** 20mΩ maximum

Vertical: For use with 0.30mm thick FFC/FPC. Tuning fork contacts assure stable, low contact resistance. Optional cable retention barbs provide cable strain relief and assure full retention of cable. Optional polarizing peg assures proper orientation to PCB and kinked outer solder tails offer PCB retention. SMT compatible. • **Material:** Housing 4/6 nylon, UL94V-0 • **Actuator:** LCP, UL94V-0 • **Contact:** Phosphor Bronze Alloy • **Plating:** Tin/Lead, 90/10 • **Temperature**: -20°C ~ 80°C • **Electrical: Voltage:** 125V • **Current:** 1.0A • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 500VAC per minute • **Insulation Resistance:** 100MΩ minimum

Fig. 1

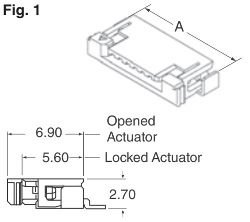

Fig. 2

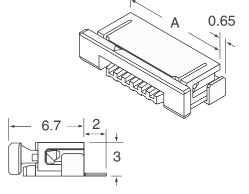

Fig. 3

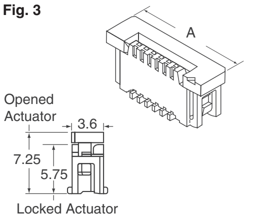

Fig. 4

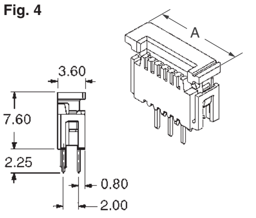

Fig. 5 ***NEW!***

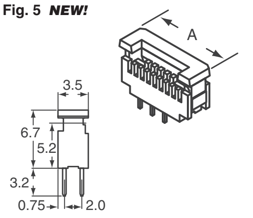

Fig.	No. of Pos.	Dimension A mm	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 1,000	Molex Part No.
				1	10	100			
Right Angle									
SMT ZIF — Top Entry Style									
1	3	9.30	WM7968CT-ND	.87	.73	.54	WM7968TR-ND	414.12	52207-0385
	4	10.30	WM7675CT-ND	.97	.80	.60	WM7675TR-ND	484.64	52207-0485
	5	11.30	WM7969CT-ND	1.01	.84	.63	WM7969TR-ND	508.64	52207-0585
	6	12.30	WM7676CT-ND	.82	.68	.51	WM7676TR-ND	409.60	52207-0685
	8	14.30	WM7677CT-ND	1.60	1.37	1.07	WM7677TR-ND	621.08	52207-0885
	9	15.30	WM7970CT-ND	1.79	1.53	1.20	WM7970TR-ND	694.00	52207-0985
	10	16.30	WM7678CT-ND	1.31	1.09	.82	WM7678TR-ND	656.96	52207-1085
	11	17.30	WM7971CT-ND	2.13	1.82	1.42	WM7971TR-ND	827.00	52207-1185
	12	18.30	WM7679CT-ND	1.54	1.27	.96	WM7679TR-ND	769.92	52207-1285
	14	20.30	WM7680CT-ND	2.61	2.24	1.74	WM7680TR-ND	1014.13	52207-1485
	16	22.30	WM7681CT-ND	1.74	1.47	1.14	WM7681TR-ND	880.73	52207-1685
	18	24.30	WM7682CT-ND	1.91	1.62	1.25	WM7682TR-ND	966.14	52207-1885
	20	26.30	WM7683CT-ND	2.06	1.75	1.35	WM7683TR-ND	1044.15	52207-2085
	22	28.30	WM7684CT-ND	3.67	3.15	2.45	WM7684TR-ND	1428.88	52207-2285
	24	30.30	WM7685CT-ND	3.88	3.33	2.59	WM7685TR-ND	1509.90	55207-2485
	26	32.30	WM7686CT-ND	4.08	3.50	2.73	WM7686TR-ND	1587.95	52207-2685
	28	34.30	WM7687CT-ND	4.29	3.68	2.87	WM7687TR-ND	1669.00	52207-2885
	30	36.30	WM7688CT-ND	4.50	3.85	3.01	WM7688TR-ND	1750.18	52207-3085
SMT ZIF, Gold-Copper — Bottom Entry Style									
2	4	9.00	WM7937CT-ND	1.06	.88	.66	WM7937TR-ND	529.28	52271-0469
	7	12.00	WM7938CT-ND	.80	.69	.54	WM7938TR-ND	310.00	52271-0769
	8	13.00	WM7939CT-ND	1.28	1.06	.80	WM7939TR-ND	642.40	52271-0869
	10	15.00	WM7940CT-ND	2.22	1.90	1.48	WM7940TR-ND	863.00	52271-1069
	12	17.00	WM7941CT-ND	1.46	1.24	.96	WM7941TR-ND	738.92	52271-1269
	14	19.00	WM7942CT-ND	2.63	2.25	1.76	WM7942TR-ND	1022.00	52271-1469
	15	20.00	WM7943CT-ND	1.42	1.22	.95	WM7943TR-ND	552.00	52271-1569
	16	21.00	WM7944CT-ND	1.81	1.53	1.19	WM7944TR-ND	916.00	52271-1669
	18	23.00	WM7945CT-ND	1.33	1.14	.89	WM7945TR-ND	517.00	52271-1869
	20	25.00	WM7946CT-ND	3.21	2.75	2.14	WM7946TR-ND	1247.00	52271-2069
	22	27.00	WM7947CT-ND	3.43	2.94	2.29	WM7947TR-ND	1336.00	52271-2269
	28	33.00	WM7950CT-ND	4.03	3.45	2.69	WM7950TR-ND	1568.00	52271-2869
	30	35.00	WM7951CT-ND	2.61	2.21	1.71	WM7951TR-ND	1324.00	52271-3069
SMT ZIF, Tin-Bismuth — Bottom Entry Style									
2	4	11.30	WM7954CT-ND	1.45	1.24	.97	WM7954TR-ND	563.00	52271-0479
	6	13.30	WM7955CT-ND	1.55	1.33	1.04	WM7955TR-ND	604.00	52271-0679
	7	14.30	WM7956CT-ND	1.61	1.38	1.08	WM7956TR-ND	625.00	52271-0779
	8	15.30	WM7957CT-ND	1.76	1.51	1.18	WM7957TR-ND	683.00	52271-0879
	9	16.30	WM7958CT-ND	1.92	1.64	1.28	WM7958TR-ND	745.00	52271-0979
	10	17.30	WM7959CT-ND	2.04	1.75	1.36	WM7959TR-ND	793.00	52271-1079
	12	19.35	WM7960CT-ND	2.23	1.91	1.49	WM7960TR-ND	868.00	52271-1279
	14	21.35	WM7961CT-ND	2.41	2.07	1.61	WM7961TR-ND	937.00	52271-1479
	16	23.35	WM7962CT-ND	2.61	2.24	1.75	WM7962TR-ND	1016.00	52271-1679
	18	25.35	WM7963CT-ND	2.77	2.37	1.85	WM7963TR-ND	1077.00	52271-1879
2	20	27.35	WM7964CT-ND	2.94	2.52	1.96	WM7964TR-ND	1143.00	52271-2079
	24	31.35	WM7965CT-ND	3.33	2.86	2.23	WM7965TR-ND	1297.00	52271-2479
	28	35.35	WM7966CT-ND	3.70	3.17	2.47	WM7966TR-ND	1438.00	52271-2879
	30	37.35	WM7967CT-ND	3.77	3.23	2.52	WM7967TR-ND	1466.00	52271-3079
Vertical									
SMT ZIF									
3	6	12.60	WM7633CT-ND	2.34	2.00	1.56	WM7633TR-ND	909.00	52610-0671
	8	14.60	WM7634CT-ND	2.80	2.40	1.87	WM7634TR-ND	1087.00	52610-0871
	10	16.60	WM7635CT-ND	3.22	2.76	2.15	WM7635TR-ND	1251.00	52610-1071
	12	18.60	WM7636CT-ND	3.68	3.15	2.46	WM7636TR-ND	1432.00	52610-1271
	14	20.60	WM7637CT-ND	4.09	3.51	2.73	WM7637TR-ND	1592.00	52610-1471
	16	22.60	WM7638CT-ND	4.45	3.81	2.97	WM7638TR-ND	1729.00	52610-1671
	18	24.60	WM7639CT-ND	4.75	4.07	3.17	WM7639TR-ND	1848.00	52610-1871
	20	26.60	WM7640CT-ND	5.02	4.30	3.35	WM7640TR-ND	1952.00	52610-2071
	22	28.60	WM7641CT-ND	5.40	4.62	3.60	WM7641TR-ND	2099.00	52610-2271
	24	30.60	WM7642CT-ND	5.75	4.93	3.84	WM7642TR-ND	2237.00	52610-2471
	26	32.60	WM7643CT-ND	4.12	3.53	2.75	WM7643TR-ND	1600.00	52610-2671
	28	34.60	WM7644CT-ND	6.27	5.37	4.19	WM7644TR-ND	2439.00	52610-2871
	30	36.60	WM7645CT-ND	6.42	5.49	4.28	WM7645TR-ND	2496.00	52610-3071
ZIF — No Pegs									
4	4	9.30	WM5300-ND	1.88	1.53	1.18	—	—	71226-0425
	26	31.30	WM5311-ND	5.98	4.86	3.74	—	—	71226-2625
5	6	11.30	WM1175-ND ***NEW!***	1.37	1.07	.81	—	—	52030-0629
	8	13.30	WM1176-ND ***NEW!***	1.57	1.23	.94	—	—	52030-0829
	10	15.30	WM1183-ND ***NEW!***	1.77	1.38	1.06	—	—	52030-1029
	12	17.30	WM1184-ND ***NEW!***	1.72	1.43	1.06	—	—	52030-1229
	14	19.30	WM1185-ND ***NEW!***	1.91	1.59	1.18	—	—	52030-1429
	16	21.30	WM1186-ND ***NEW!***	2.10	1.75	1.30	—	—	52030-1629
	18	23.30	WM1177-ND ***NEW!***	2.29	1.91	1.41	—	—	52030-1829
	20	25.30	WM1178-ND ***NEW!***	5.08	4.21	3.16	—	—	52030-2029
	22	27.30	WM1179-ND ***NEW!***	5.45	4.52	3.39	—	—	52030-2229
	24	29.30	WM1180-ND ***NEW!***	5.85	4.84	3.64	—	—	52030-2429
	26	31.30	WM1187-ND ***NEW!***	3.05	2.54	1.88	—	—	52030-2629
	28	33.30	WM1181-ND ***NEW!***	3.25	2.70	2.00	—	—	52030-2829
	30	35.30	WM1182-ND ***NEW!***	3.03	2.51	1.89	—	—	52030-3029
Kinked Tails, Non-ZIF DIP									
4	4	7.00	WM5316-ND	.23	.19	.15	—	—	52806-0410
	5	8.00	WM5325-ND	.41	.34	.26	—	—	52806-0510
	6	9.00	WM5317-ND	.34	.28	.22	—	—	52806-0610
	7	10.00	WM5318-ND	.44	.37	.28	—	—	52806-0710
	9	12.00	WM5319-ND	.84	.69	.53	—	—	52806-0910
	10	13.00	WM5320-ND	.46	.38	.29	—	—	52806-1010
	11	14.00	WM5321-ND	.45	.37	.29	—	—	52806-1110
	12	15.00	WM5322-ND	.50	.41	.32	—	—	52806-1210
	13	16.00	WM5323-ND	1.08	.88	.68	—	—	52806-1310
	14	17.00	WM5324-ND	.63	.51	.40	—	—	52806-1410

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex®

1.0mm (.039”) Pitch Standard Length Jumpers

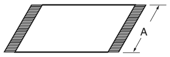

Features and Specifications: Molex introduces a complete line of 1.00 (.039”) pitch Flat Flex Cable jumpers. These jumpers are used to connect 2 PC boards and terminate to either ZIF or Non-ZIF FFC Connectors **Reference Information:** UL Style No.: 2896. Mates with: Any 1.00mm (.039”) Pitch Molex FFC/FPC Connector. Designed in: Millimeters **Electrical:** Voltage: 30V, Current: 1.3A **Physical:** Strip Length: 4.0mm (.157”). Reinforcement Length: 8.00mm (.315”). Conductor Width: 0.70mm (.028”). Conductor Thickness: 0.10mm (.004”). End Thickness: 0.30±0.05mm (.012±.002”). Temperature: -40°C ~ 80° C • Contacts on same side

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
		2” (5.08cm) Unshielded Flat Flex Cable				
6	7.15	WM10000-ND◆	3.00	2.51	1.84	21039-0203
8	9.15	WM10001-ND◆	3.09	2.58	1.89	21039-0225
10	11.15	WM10002-ND	3.18	2.65	1.95	21039-0247
12	13.15	WM10003-ND◆	3.28	2.74	2.01	21039-0269
14	15.15	WM10004-ND◆	3.36	2.81	2.06	21039-0291
16	17.15	WM10005-ND◆	3.46	2.89	2.12	21039-0313
18	19.15	WM10006-ND◆	3.58	2.99	2.19	21039-0335
20	21.15	WM10007-ND◆	3.72	3.11	2.28	21039-0357
22	23.15	WM10008-ND	3.76	3.14	2.30	21039-0379
24	25.15	WM10009-ND◆	3.97	3.31	2.43	21039-0401
26	27.15	WM10010-ND◆	4.00	3.34	2.45	21039-0423
28	29.15	WM10011-ND◆	4.03	3.36	2.47	21039-0445
30	31.15	WM10012-ND◆	4.06	3.39	2.49	21039-0467
		3” (7.62cm) Unshielded Flat Flex Cable				
6	7.15	WM10013-ND◆	2.94	2.45	1.80	21039-0205
8	9.15	WM10014-ND◆	3.05	2.55	1.87	21039-0227
10	11.15	WM10015-ND◆	3.17	2.65	1.94	21039-0249
12	13.15	WM10016-ND	3.31	2.76	2.03	21039-0271
14	15.15	WM10017-ND◆	3.41	2.85	2.09	21039-0293
16	17.15	WM10018-ND◆	3.53	2.95	2.16	21039-0315
18	19.15	WM10019-ND	3.69	3.08	2.26	21039-0337
20	21.15	WM10020-ND◆	3.89	3.24	2.38	21039-0359
24	25.15	WM10022-ND◆	4.21	3.51	2.58	21039-0403
26	27.15	WM10023-ND	4.25	3.55	2.60	21039-0425
30	31.15	WM10025-ND◆	4.33	3.61	2.65	21039-0469
		4” (10.16cm) Unshielded Flat Flex Cable				
6	7.15	WM10026-ND◆	2.82	2.35	1.73	21039-0207
8	9.15	WM10027-ND◆	2.96	2.47	1.81	21039-0229
10	11.15	WM10028-ND◆	3.09	2.58	1.89	21039-0251
12	13.15	WM10029-ND◆	3.25	2.71	1.99	21039-0273
14	15.15	WM10030-ND◆	3.39	2.83	2.08	21039-0295
16	17.15	WM10031-ND◆	3.53	2.95	2.16	21039-0317
18	19.15	WM10032-ND◆	3.72	3.10	2.28	21039-0339
20	21.15	WM10033-ND◆	3.95	3.30	2.42	21039-0361
22	23.15	WM10034-ND◆	4.00	3.33	2.45	21039-0383
24	25.15	WM10035-ND◆	4.33	3.61	2.65	21039-0405
26	27.15	WM10036-ND	4.38	3.65	2.68	21039-0427
28	29.15	WM10037-ND	4.43	3.70	2.71	21039-0449
30	31.15	WM10038-ND◆	4.47	3.73	2.74	21039-0471
		5” (12.70cm) Unshielded Flat Flex Cable				
6	7.15	WM10039-ND◆	2.80	2.34	1.72	21039-0209
8	9.15	WM10040-ND◆	2.96	2.47	1.81	21039-0231
10	11.15	WM10041-ND◆	3.11	2.60	1.91	21039-0253
12	13.15	WM10042-ND◆	3.30	2.75	2.02	21039-0275
14	15.15	WM10043-ND◆	3.45	2.88	2.12	21039-0297
16	17.15	WM10044-ND◆	3.62	3.02	2.22	21039-0319
18	19.15	WM10045-ND◆	3.83	3.20	2.35	21039-0341
20	21.15	WM10046-ND◆	4.11	3.43	2.52	21039-0363
22	23.15	WM10047-ND◆	4.17	3.48	2.55	21039-0385
24	25.15	WM10048-ND	4.56	3.80	2.79	21039-0407
26	27.15	WM10049-ND	4.61	3.85	2.82	21039-0429
28	29.15	WM10050-ND◆	4.67	3.90	2.86	21039-0451
30	31.15	WM10051-ND	4.72	3.94	2.89	21039-0473
		6” (15.24cm) Unshielded Flat Flex Cable				
6	7.15	WM10052-ND◆	2.88	2.40	1.76	21039-0211
8	9.15	WM10053-ND◆	3.06	2.55	1.87	21039-0233
10	11.15	WM10054-ND◆	3.24	2.70	1.98	21039-0255
12	13.15	WM10055-ND◆	3.45	2.88	2.12	21039-0277
14	15.15	WM10056-ND◆	3.63	3.03	2.22	21039-0299
16	17.15	WM10057-ND◆	3.83	3.19	2.34	21039-0321
18	19.15	WM10058-ND	4.08	3.40	2.50	21039-0343
20	21.15	WM10059-ND◆	4.40	3.67	2.69	21039-0365
22	23.15	WM10060-ND	4.46	3.72	2.73	21039-0387
24	25.15	WM10061-ND◆	4.91	4.10	3.01	21039-0409
28	29.15	WM10063-ND◆	5.04	4.21	3.09	21039-0453
30	31.15	WM10064-ND◆	5.11	4.26	3.13	21039-0475
		8” (20.32cm) Unshielded Flat Flex Cable				
6	7.15	WM10065-ND◆	3.05	2.54	1.87	21039-0215
8	9.15	WM10066-ND	3.28	2.73	2.01	21039-0237
10	11.15	WM10067-ND◆	3.49	2.91	2.14	21039-0259
12	13.15	WM10068-ND◆	3.78	3.15	2.32	21039-0281
14	15.15	WM10069-ND◆	4.00	3.33	2.45	21039-0303
16	17.15	WM10070-ND◆	4.25	3.55	2.60	21039-0325
20	21.15	WM10072-ND◆	4.98	4.15	3.05	21039-0369
22	23.15	WM10073-ND◆	5.06	4.23	3.10	21039-0391
24	25.15	WM10074-ND	5.65	4.71	3.46	21039-0413
26	27.15	WM10075-ND	5.72	4.77	3.50	21039-0435
28	29.15	WM10076-ND	5.80	4.84	3.55	21039-0457
		10” (25.40cm) Unshielded Flat Flex Cable				
6	7.15	WM10078-ND◆	3.24	2.71	1.99	21039-0219
8	9.15	WM10079-ND◆	3.52	2.94	2.16	21039-0241
10	11.15	WM10080-ND	3.79	3.16	2.32	21039-0263
12	13.15	WM10081-ND	4.13	3.44	2.53	21039-0285
14	15.15	WM10082-ND◆	4.40	3.67	2.69	21039-0307
16	17.15	WM10083-ND◆	4.70	3.93	2.88	21039-0329
18	19.15	WM10084-ND	5.08	4.24	3.11	21039-0351
20	21.15	WM10085-ND	5.59	4.66	3.42	21039-0373
22	23.15	WM10086-ND	5.69	4.74	3.48	21039-0395
24	25.15	WM10087-ND	6.40	5.34	3.92	21039-0417
26	27.15	WM10088-ND	6.50	5.42	3.98	21039-0439
28	29.15	WM10089-ND	6.59	5.50	4.03	21039-0461
30	31.15	WM10090-ND	6.69	5.58	4.09	21039-0483
		12” (30.48cm) Unshielded Flat Flex Cable				
6	7.15	WM10091-ND◆	3.45	2.88	2.11	21039-0221
8	9.15	WM10092-ND◆	3.76	3.14	2.30	21039-0243
10	11.15	WM10093-ND◆	4.08	3.40	2.50	21039-0265
12	13.15	WM10094-ND◆	4.47	3.73	2.74	21039-0287
14	15.15	WM10095-ND◆	4.80	4.00	2.94	21039-0309
16	17.15	WM10096-ND◆	5.16	4.30	3.16	21039-0331
18	19.15	WM10097-ND◆	5.61	4.68	3.44	21039-0353
20	21.15	WM10098-ND	6.20	5.18	3.80	21039-0375
24	25.15	WM10100-ND	7.17	5.98	4.39	21039-0419
28	29.15	WM10102-ND	7.38	6.16	4.52	21039-0463
30	31.15	WM10103-ND◆	7.50	6.26	4.59	21039-0485

◆ ***RoHS Compliant***

JAE Technology to Inspire Innovation

NEW! 0.2mm FFC/ FPC Connectors

RoHS COMPLIANT

Digi-Reel®

FF08 Series: Specifications: • Contact Resistance: 70mΩ min. • Dielectric Withstanding Voltage: AC250Vr.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Voltage: AC, DC 50V per position • Rated Current: DC 0.3A per position

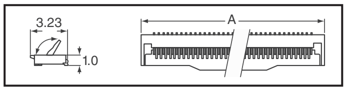

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 300	JAE Part No.
				FF08 Series				
29	7.85	670-2473-1-ND	6.48	4.54	3.89	670-2473-2-ND	1088.64	FF0829SA1-R300
41	10.25	670-2474-1-ND	7.76	5.44	4.66	670-2474-2-ND	1303.26	FF0841SA1-R300
71	16.25	670-2475-1-ND	11.08	7.76	6.65	670-2475-2-ND	1861.44	FF0871SA1-R300
81	18.25	670-2476-1-ND	12.21	8.55	7.33	670-2476-2-ND	2051.70	FF0881SA1-R300

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			FB8 Series				
3	17	6.4	670-2106-ND ***NEW!***	8.13	5.53	4.88	FB8S017JA1
	23	8.2	670-1498-ND	3.36	2.20	1.96	FB8S023JA1
	25	8.8	670-2393-ND ***NEW!***	10.45	6.69	6.27	FB8S025JA1
	29	10.0	670-1499-ND	10.73	7.08	6.44	FB8S029JA1
	31	10.6	670-1500-ND	4.26	2.79	2.48	FB8S031JA1
	33	11.2	670-1501-ND	4.48	2.94	2.61	FB8S033JA1
	39	13.0	670-1502-ND	5.39	3.53	3.14	FB8S039JA1
	51	16.6	670-2107-ND ***NEW!***	16.81	11.96	10.84	FB8S051JA1
			NEW! FF02 Series NEW!				
4	15	7.2	670-1707-ND	3.31	1.93	1.77	FF0215SS1-C100
	35	13.2	670-1710-1-ND†	7.13	4.85	4.28	FF02S35SV1
	35	13.2	670-1710-2-ND‡		826.50/200		FF02S35SV1
	40	14.7	670-1830-ND	8.95	6.09	5.37	FF02S40SV1
	45	16.2	670-1831-ND	9.68	6.58	5.81	FF02S45SV1
	50	17.7	670-1832-ND	10.30	7.01	6.18	FF02S50SV1
	55	19.2	670-1833-ND	9.99	7.11	6.44	FF02S55SV1

† Cut Tape ‡ Tape and Reel

0.3mm FFC/FPC Connectors

RoHS COMPLIANT

FB3 Series: Specifications: • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: AC250Vr.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: AC, DC 0.35A per terminal • Insulation Resistance: 100MΩ minimum **FB6 Series**: **Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum **FB8 Series**: **Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum **FF02 Series: Specifications:** • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: AC250V r.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: AC/DC 0.35A per contact • Rated Voltage: AC/DC 50V per contact • Insulation Resistance: 100MΩ minimum

Fig. 1

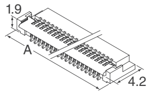

Fig. 2

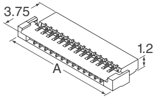

Fig. 3

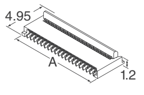

Fig. 4 *NEW!*

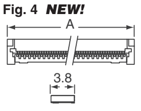

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			FB3 Series				
1	25	10.5	670-1482-ND	10.00	6.60	6.00	FB3S025C11
	45	16.5	670-1483-ND	13.14	9.35	8.47	FB3S045C11
	51	18.3	670-1810-ND ***NEW!***	13.77	9.80	8.88	FB3S051C11
	61	21.3	670-1484-ND	21.08	15.57	14.56	FB3S061C11
			FB6 Series				
2	15	6.9	670-1485-ND	2.94	1.82	1.67	FB6S015JA1
	17	7.5	670-1486-ND	3.12	1.93	1.77	FB6S017JA1
	25	9.9	670-1488-ND	3.16	2.07	1.84	FB6S025JA1
	27	10.5	670-1489-ND	3.36	2.20	1.96	FB6S027JA1
	29	11.1	670-1490-ND	3.47	2.27	2.02	FB6S029JA1
	33	12.3	670-1491-ND	3.82	2.51	2.23	FB6S033JA1
	39	14.1	670-1492-ND	11.63	7.68	6.98	FB6S039JA1
	45	15.9	670-1493-ND	4.18	2.74	2.44	FB6S045JA1
	51	17.7	670-1494-ND	4.57	2.99	2.66	FB6S051JA1
	59	20.1	670-1497-ND	4.62	3.03	2.69	FB6S059JA1

NEW! 0.5mm FFC/FPC Connectors

RoHS COMPLIANT

FA5 Series: Specifications: • Contact Resistance: 40mΩ max. • Dielectric Withstanding Voltage: AC250Vr.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.8A per contact • Insulation Resistance: 100MΩ max. **FF03 Series: Specifications:** • Contact Resistance: <20mΩ • Dielectric Withstanding Voltage: AC250Vr.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Voltage: AC/DC 0.5A per terminal • Rated Current: AC, DC 0.5A per terminal • Insulation Resistance: 100MΩ min.

Fig. 1

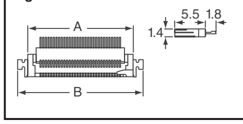

Fig. 2

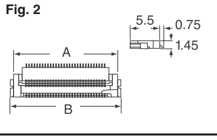

Fig. 3

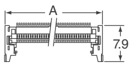

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				FA5 Series				
1	8	8.2	11.7	670-2105-ND	6.53	4.44	3.92	FA5B008HP1
	10	9.2	12.7	670-2184-ND	4.86	3.00	2.60	FA5B010HP1
	30	19.2	22.7	670-1821-ND	7.60	5.17	4.56	FA5B030HP1
	40	24.2	27.7	670-1703-ND	10.10	6.87	6.06	FA5B040HP1
	50	29.2	32.7	670-1822-ND	20.72	14.74	13.36	FA5B050HP1
2	10	9.2	10.3	670-1704-ND	5.82	3.40	3.11	FA5S010HP1
	15	11.7	12.8	670-1823-ND	6.33	3.70	3.38	FA5S015HP1
	20	14.2	15.3	670-1824-ND	7.71	4.50	4.12	FA5S020HP1
	22	15.2	16.3	670-2185-ND	7.20	4.44	3.84	FA5S022HP1
	24	16.2	17.3	670-2186-ND	7.58	5.16	4.55	FA5S024HP1
	30	19.2	20.3	670-1705-ND	7.85	5.34	4.71	FA5S030HP1
	40	24.2	25.3	670-1706-ND	9.48	6.45	5.69	FA5S040HP1
	45	26.7	27.8	670-1825-ND	9.92	7.06	6.40	FA5S045HP1
	50	29.2	30.3	670-1826-ND	11.95	8.50	7.70	FA5S050HP1
				FF03 Series				
3	60	34.9	—	670-2084-ND	10.00	6.80	6.00	FF0360SA1
	64	36.9	—	670-2091-ND	10.98	7.47	6.59	FF0364SA1
	80	44.9	—	670-2076-ND	10.68	7.26	6.41	FF0380SA1

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

FX12 Connectors with Dual Shields - 0.4mm Pitch

Specifications:

- **Current Rating:** 0.3A
- **Voltage Rating:** 30VAC
- **Operating Temperature:** -55°C ~ 85°C
- **Insulation Resistance:** 50MΩ @ 100VDC
- **Withstanding Voltage:** No flashover or insulation breakdown @ 100VAC one minute
- **Contact Resistance:** 100mΩ Maximum @ 100mA

Materials:

- **Insulator:** Polyamide, Black Finish, UL94V-0
- **Contacts:** Phosphor Bronze, Gold Plated Finish
- **Ground Plates:** Phosphor Bronze, Gold Plated
- **Metal Fittings:** Phosphor Bronze, Tin-Copper plated

Plug

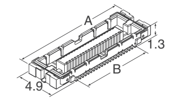

Receptacle

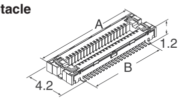

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R▲ Pricing 3,000	Hirose Part No.
Plugs								
24	10.6	4.4	H11405CT-ND	1.67	1.37	1.10	572.00/M	FX12B-24P-0.4SV
40	13.8	7.6	H11407CT-ND	1.72	1.44	1.20	676.00/M	FX12B-40P-0.4SV
60	17.79	11.6	H11409CT-ND	2.34	1.95	1.62	918.00/M	FX12B-60P-0.4SV
Receptacles								
24	8.1	4.4	H11406CT-ND	1.67	1.37	1.10	572.00/M	FX12B-24S-0.4SV
40	11.3	7.6	H11408CT-ND	1.72	1.44	1.20	676.00/M	FX12B-40S-0.4SV
60	15.34	11.6	H11410CT-ND	2.24	1.87	1.56	880.00/M	FX12B-60S-0.4SV

▲ For Tape and Reel part number, change CT-ND to TR-ND.

DF12 Surface Mount Connectors - 0.5mm Pitch

Features:

- Connectors furnished with reinforcement fittings to prevent peeling of the solder joints (due to mechanical stress) are also available and these can be mounted to FPC with confidence
- A specification with convenient guide posts for manual work is available as well as one without guide posts for automatic mounting

Specifications:

- Current Capacity: 0.3A • Rated Voltage: 50VAC • Insulation Resistance: 100VDC, 500MΩ minimum • Withstand Voltage: 1 minute at rated value, 150VAC • Contact Resistance: 100mA, 50mΩ maximum

Material (receptacle/header):

- Insulation: Polyamide, beige (natural), UL94V-0 • Contacts: Phosphor copper with gold plating
- Fittings: Brass finish with tin-lead plating

Fig. 1

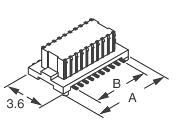

Fig. 2

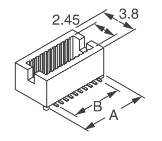

Fig. 3

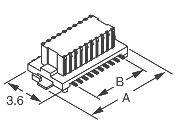

Fig. 4

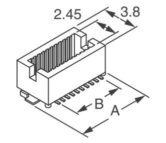

Fig.	No. of Contacts	Description	Dimension (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R▲ Pricing 1,000	Hirose Part No.
Receptacles										
3.0mm Stacking Height — RoHS Compliant										
1	10	With Guide Posts	4.6	2.0	H11712CT-ND✔	.80	.58	.48	279.00	DF12A(3.0)-10DS-0.5V(81)
	14		5.6	3.0	H11713CT-ND✔	.87	.64	.52	306.00	DF12A(3.0)-14DS-0.5V(81)
	20		7.1	4.5	H11714CT-ND✔	1.63	1.19	.97	572.00	DF12A(3.0)-20DS-0.5V(81)
	30		9.6	7.0	H11754CT-ND✔	1.85	1.43	1.14	758.00	DF12A(3.0)-30DS-0.5V(81)
	32		10.1	7.5	H5202CT-ND	1.98	1.53	1.22	811.00	DF12A(3.0)-32DS-0.5V(81)
	36		11.1	8.5	H11715CT-ND✔	2.15	1.65	1.32	878.00	DF12A(3.0)-36DS-0.5V(81)
	40		12.1	9.5	H11757CT-ND✔	2.34	1.80	1.44	958.00	DF12A(3.0)-40DS-0.5V(81)
	50		14.6	12.0	H5203CT-ND	2.80	2.15	1.72	1144.00	DF12A(3.0)-50DS-0.5V(81)
	60		17.1	14.5	H5204CT-ND	2.90	2.25	1.80	1300.00	DF12A(3.0)-60DS-0.5V(81)
	80		22.1	19.5	H11716CT-ND✔	3.15	2.43	1.94	1290.00	DF12A(3.0)-80DS-0.5V(81)
3	10	With Reinforced Fittings	5.5	2.0	H11719CT-ND✔	.87	.64	.52	306.00	DF12B(3.0)-10DS-0.5V(86)
	20		8.0	4.5	H11721CT-ND✔	1.10	.80	.66	386.00	DF12B(3.0)-20DS-0.5V(86)
	32		11.0	7.5	H11724CT-ND✔	1.52	1.10	.90	532.00	DF12B(3.0)-32DS-0.5V(86)
	40		13.0	9.5	H11756CT-ND✔	1.75	1.27	1.04	612.00	DF12B(3.0)-40DS-0.5V(86)
	60		18.0	14.5	H11760CT-ND✔	2.11	1.63	1.30	865.00	DF12B(3.0)-60DS-0.5V(86)
3.0mm Stacking Height										
3	10	With Guide Posts and Reinforced Fittings	5.5	2.0	H11700CT-ND◆✔	.87	.64	.52	306.00	DF12(3.0)-10DS-0.5V(86)
	14		6.5	3.0	H11702CT-ND◆✔	.95	.69	.57	333.00	DF12(3.0)-14DS-0.5V(86)
	20		8.0	4.5	H11748CT-ND◆✔	1.10	.80	.66	386.00	DF12(3.0)-20DS-0.5V(86)
	30		10.5	7.0	H11704CT-ND◆✔	1.63	1.19	.97	572.00	DF12(3.0)-30DS-0.5V(86)
	32		11.0	7.5	H5205CT-ND◆	1.52	1.10	.90	532.00	DF12(3.0)-32DS-0.5V(86)
	36		12.0	8.5	H11750CT-ND◆✔	1.82	1.32	1.08	638.00	DF12(3.0)-36DS-0.5V(86)
	40		13.0	9.5	H11706CT-ND◆✔	1.75	1.27	1.04	612.00	DF12(3.0)-40DS-0.5V(86)
	50		15.5	12.0	H1509-ND	2.11	1.63	1.30	—	DF12(3.0)-50DS-0.5V(80)
	50		15.5	12.0	H5206CT-ND◆	1.92	1.48	1.18	785.00	DF12(3.0)-50DS-0.5V(86)
	60		18.0	14.5	H5207CT-ND◆	2.11	1.63	1.30	865.00	DF12(3.0)-60DS-0.5V(86)
	80		23.0	19.5	H5208CT-ND◆	2.96	2.28	1.82	1210.00	DF12(3.0)-80DS-0.5V(86)
3.5 ~ 5.0mm Stacking Height — RoHS Compliant										
1	20	With Guide Posts	7.1	4.5	H5209CT-ND	1.71	1.24	1.02	599.00	DF12A-20DS-0.5V(81)
	30		9.6	7.0	H5210CT-ND	1.92	1.48	1.18	785.00	DF12A-30DS-0.5V(81)
	32		10.1	7.5	H11717CT-ND✔	1.56	1.13	.93	545.00	DF12A-32DS-0.5V(81)
	36		11.1	8.5	H5211CT-ND	2.21	1.70	1.36	904.00	DF12A-36DS-0.5V(81)
	40		12.1	9.5	H5212CT-ND	2.28	1.75	1.40	931.00	DF12A-40DS-0.5V(81)
	60		17.1	14.5	H11758CT-ND✔	2.99	2.32	1.86	1339.00	DF12A-60DS-0.5V(81)
3	20	With Reinforced Fittings	8.0	4.5	H11732CT-ND✔	1.06	.77	.63	372.00	DF12B-20DS-0.5V(86)
	30		10.5	7.0	H11733CT-ND✔	1.44	1.05	.86	505.00	DF12B-30DS-0.5V(86)
	32		11.0	7.5	H11734CT-ND✔	1.60	1.16	.95	559.00	DF12B-32DS-0.5V(86)
	36		12.0	8.5	H11735CT-ND✔	1.86	1.35	1.11	652.00	DF12B-36DS-0.5V(86)
	40		13.0	9.5	H11765CT-ND✔	1.71	1.24	1.02	599.00	DF12B-40DS-0.5V(86)
	50		15.5	12.0	H11766CT-ND✔	1.92	1.48	1.18	785.00	DF12B-50DS-0.5V(86)
	60		18.0	14.5	H11767CT-ND✔	2.11	1.63	1.30	865.00	DF12B-60DS-0.5V(86)
3	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5214CT-ND	1.06	.77	.63	372.00	DF12-20DS-0.5V(86)
	30		10.5	7.0	H5215CT-ND	1.44	1.05	.86	505.00	DF12-30DS-0.5V(86)
	32		11.0	7.5	H11711CT-ND✔	1.60	1.16	.95	559.00	DF12-32DS-0.5V(86)
	36		12.0	8.5	H5216CT-ND	1.86	1.35	1.11	652.00	DF12-36DS-0.5V(86)
	40		13.0	9.5	H5217CT-ND	1.71	1.24	1.02	599.00	DF12-40DS-0.5V(86)
	50		15.5	12.0	H5218CT-ND	1.92	1.48	1.18	785.00	DF12-50DS-0.5V(86)
	60		18.0	14.5	H5001CT-ND	2.11	1.63	1.30	865.00	DF12-60DS-0.5V(86)
Headers — RoHS Compliant										
3.0mm Stacking Height										
2	10	With Guide Posts	4.7	2.0	H11736CT-ND✔	.84	.61	.50	293.00	DF12D(3.0)-10DP-0.5V(81)
	14		5.7	3.0	H11737CT-ND✔	.91	.66	.54	319.00	DF12D(3.0)-14DP-0.5V(81)
	20		7.2	4.5	H11738CT-ND✔	1.67	1.21	.99	585.00	DF12D(3.0)-20DP-0.5V(81)
	30		9.7	7.0	H11739CT-ND✔	1.92	1.48	1.18	785.00	DF12D(3.0)-30DP-0.5V(81)
	32		10.2	7.5	H5219CT-ND	2.02	1.55	1.24	825.00	DF12D(3.0)-32DP-0.5V(81)
	36		11.2	8.5	H11740CT-ND✔	2.21	1.70	1.36	904.00	DF12D(3.0)-36DP-0.5V(81)
	40		12.2	9.5	H11768CT-ND✔	2.41	1.85	1.48	984.00	DF12D(3.0)-40DP-0.5V(81)
	50		14.7	12.0	H5220CT-ND	2.86	2.20	1.76	1170.00	DF12D(3.0)-50DP-0.5V(81)
	60		17.2	14.5	H5221CT-ND	2.99	2.32	1.86	1339.00	DF12D(3.0)-60DP-0.5V(81)
	80		22.2	19.5	H11581CT-ND	3.12	2.40	1.92	1277.00	DF12D(3.0)-80DP-0.5V(81)
4	10	With Guide Posts and Reinforced Fittings	5.5	2.0	H11699CT-ND✔	.87	.64	.52	306.00	DF12(3.0)-10DP-0.5V(86)
	14		6.5	3.0	H11701CT-ND✔	.95	.69	.57	333.00	DF12(3.0)-14DP-0.5V(86)
	20		8.0	4.5	H11747CT-ND✔	1.06	.77	.63	372.00	DF12(3.0)-20DP-0.5V(86)
	30		10.5	7.0	H11703CT-ND✔	1.60	1.16	.95	559.00	DF12(3.0)-30DP-0.5V(86)
	32		11.0	7.5	H5222CT-ND	1.52	1.10	.90	532.00	DF12(3.0)-32DP-0.5V(86)
	36		12.0	8.5	H11749CT-ND✔	1.60	1.16	.95	559.00	DF12(3.0)-36DP-0.5V(86)
	40		13.0	9.5	H11705CT-ND✔	1.75	1.27	1.04	612.00	DF12(3.0)-40DP-0.5V(86)
	50		15.5	12.0	H5223CT-ND	1.92	1.48	1.18	785.00	DF12(3.0)-50DP-0.5V(86)
	60		18.0	14.5	H5224CT-ND	2.05	1.58	1.26	838.00	DF12(3.0)-60DP-0.5V(86)
	80		23.0	19.5	H5225CT-ND	2.93	2.25	1.80	1197.00	DF12(3.0)-80DP-0.5V(86)
4	10	With Reinforced Fittings	5.5	2.0	H11718CT-ND✔	.87	.64	.52	306.00	DF12B(3.0)-10DP-0.5V(86)
	20		8.0	4.5	H11720CT-ND✔	1.06	.77	.63	372.00	DF12B(3.0)-20DP-0.5V(86)
	30		10.5	7.0	H11722CT-ND✔	1.60	1.16	.95	559.00	DF12B(3.0)-30DP-0.5V(86)
	32		11.0	7.5	H11723CT-ND✔	1.52	1.10	.90	532.00	DF12B(3.0)-32DP-0.5V(86)
	40		13.0	9.5	H11755CT-ND✔	1.75	1.27	1.04	612.00	DF12B(3.0)-40DP-0.5V(86)
	50		15.5	12.0	H11725CT-ND✔	1.92	1.48	1.18	785.00	DF12B(3.0)-50DP-0.5V(86)
	60		18.0	14.5	H11759CT-ND✔	2.05	1.58	1.26	838.00	DF12B(3.0)-60DP-0.5V(86)
3.5mm Stacking Height										
2	20	With Guide Posts	7.2	4.5	H5226CT-ND	1.56	1.13	.93	545.00	DF12D(3.5)-20DP-0.5V(81)
	30		9.7	7.0	H11741CT-ND✔	1.92	1.48	1.18	785.00	DF12D(3.5)-30DP-0.5V(81)
	40		12.2	9.5	H5228CT-ND	2.28	1.75	1.40	931.00	DF12D(3.5)-40DP-0.5V(81)
	50		14.7	12.0	H5229CT-ND	2.83	2.18	1.74	1157.00	DF12D(3.5)-50DP-0.5V(81)
	60		17.2	14.5	H11742CT-ND✔	2.96	2.30	1.84	1326.00	DF12D(3.5)-60DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5230CT-ND	1.18	.86	.70	412.00	DF12(3.5)-20DP-0.5V(86)
	30		10.5	7.0	H11751CT-ND✔	1.56	1.13	.93	545.00	DF12(3.5)-30DP-0.5V(86)
	36		12.0	8.5	H5231CT-ND	1.63	1.25	1.00	665.00	DF12(3.5)-36DP-0.5V(86)
	40		13.0	9.5	H5232CT-ND	1.79	1.30	1.06	625.00	DF12(3.5)-40DP-0.5V(86)
	50		15.5	12.0	H5233CT-ND	1.98	1.53	1.22	811.00	DF12(3.5)-50DP-0.5V(86)
	60		18.0	14.5	H11752CT-ND✔	2.18	1.68	1.34	891.00	DF12(3.5)-60DP-0.5V(86)
4	20	With Reinforced Fittings	8.0	4.5	H11726CT-ND✔	1.18	.86	.70	412.00	DF12B(3.5)-20DP-0.5V(86)
	60		18.0	14.5	H11761CT-ND✔	2.18	1.68	1.34	891.00	DF12B(3.5)-60DP-0.5V(86)
4.0mm Stacking Height										
2	20	With Guide Posts	7.2	4.5	H11743CT-ND✔	1.56	1.13	.93	545.00	DF12D(4.0)-20DP-0.5V(81)
	30		9.7	7.0	H5234CT-ND	1.92	1.48	1.18	785.00	DF12D(4.0)-30DP-0.5V(81)
	40		12.2	9.5	H5236CT-ND	2.28	1.75	1.40	931.00	DF12D(4.0)-40DP-0.5V(81)
	50		14.7	12.0	H5237CT-ND	2.83	2.18	1.74	1157.00	DF12D(4.0)-50DP-0.5V(81)
	60		17.2	14.5	H11769CT-ND✔	2.96	2.30	1.84	1326.00	DF12D(4.0)-60DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H11707CT-ND✔	1.56	1.13	.93	545.00	DF12(4.0)-20DP-0.5V(86)
	30		10.5	7.0	H5238CT-ND	1.92	1.48	1.18	785.00	DF12(4.0)-30DP-0.5V(86)
	32		11.0	7.5	H11708CT-ND✔	1.63	1.25	1.00	665.00	DF12(4.0)-32DP-0.5(86)
	36		12.0	8.5	H5239CT-ND	1.92	1.48	1.18	785.00	DF12(4.0)-36DP-0.5V(86)
	40		13.0	9.5	H5240CT-ND	2.02	1.55	1.24	825.00	DF12(4.0)-40DP-0.5V(86)
	50		15.5	12.0	H5241CT-ND	2.31	1.78	1.42	944.00	DF12(4.0)-50DP-0.5V(86)
	60		18.0	14.5	H5002CT-ND	2.73	2.10	1.68	1117.00	DF12(4.0)-60DP-0.5V(86)
4	20	With Reinforced Fittings	8.0	4.5	H11727CT-ND✔	1.56	1.13	.93	545.00	DF12B(4.0)-20DP-0.5V(86)
	32		11.0	7.5	H11728CT-ND✔	1.63	1.25	1.00	665.00	DF12B(4.0)-32DP-0.5V(86)
	40		13.0	9.5	H11729CT-ND✔	2.02	1.55	1.24	825.00	DF12B(4.0)-40DP-0.5V(86)
5.0mm Stacking Height										
2	20	With Guide Posts	7.2	4.5	H5242CT-ND	1.79	1.30	1.06	625.00	DF12D(5.0)-20DP-0.5V(81)
	30		9.7	7.0	H11744CT-ND✔	2.05	1.58	1.26	838.00	DF12D(5.0)-30DP-0.5V(81)
	36		11.2	8.5	H11745CT-ND✔	2.34	1.80	1.44	958.00	DF12D(5.0)-36DP-0.5V(81)
	40		12.2	9.5	H11746CT-ND✔	2.50	1.93	1.54	1024.00	DF12D(5.0)-40DP-0.5V(81)
	50		14.7	12.0	H5243CT-ND	2.96	2.28	1.82	1210.00	DF12D(5.0)-50DP-0.5V(81)
	60		17.2	14.5	H11770CT-ND✔	3.10	2.41	1.93	1391.00	DF12D(5.0)-60DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5244CT-ND	1.14	.83	.68	399.00	DF12(5.0)-20DP-0.5V(86)
	30		10.5	7.0	H11753CT-ND✔	1.75	1.27	1.04	612.00	DF12(5.0)-30DP-0.5V(86)
	36		12.0	8.5	H11709CT-ND✔	2.90	2.25	1.80	1300.00	DF12(5.0)-36DP-0.5V(86)
	40		13.0	9.5	H11710CT-ND✔	1.63	1.25	1.00	665.00	DF12(5.0)-40DP-0.5V(86)
	50		15.5	12.0	H5245CT-ND	2.08	1.60	1.28	851.00	DF12(5.0)-50DP-0.5V(86)
	60		17.2	14.5	H5006CT-ND	2.34	1.80	1.44	958.00	DF12(5.0)-60DP-0.5V(86)
4	20	With Reinforced Fittings	8.0	4.5	H11730CT-ND✔	1.14	.83	.68	399.00	DF12B(5.0)-20DP-0.5V(86)
	30		10.5	7.0	H11731CT-ND✔	1.75	1.27	1.04	612.00	DF12B(5.0)-30DP-0.5V(86)
	40		13.0	9.5	H11762CT-ND✔	1.63	1.25	1.00	665.00	DF12B(5.0)-40DP-0.5V(86)
	50		15.5	12.0	H11763CT-ND✔	2.08	1.60	1.28	851.00	DF12B(5.0)-50DP-0.5V(86)
	60		18.0	14.5	H11764CT-ND✔	2.34	1.80	1.44	958.00	DF12B(5.0)-60DP-0.5V(86)

✔ ***NEW!*** ◆ ***RoHS Compliant*** ▲ For Tape and Reel part number, change CT-ND to TR-ND.

HIROSE ELECTRIC CO., LTD.

DF30 Surface Mount Connectors - 0.4mm Pitch

Receptacle

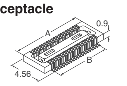

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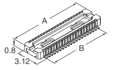

Applications: • Cellular Phones • PDAs • Mobile Computers • Digital Cameras • Digital Video Cameras • Devices demanding high reliability connections in extremely limited spaces **Specifications:** • Operating Temperature Range: -35°C ~ 85°C • Voltage Rating: 30VAC • Current Rating: 0.3A **Electrical Characteristics:** • Contact Resistance: 100mΩ maximum • Insulation Resistance: 50MΩ minimum **Mechanical Characteristics:** • Mechanical Operation: 50 times insertions and extractions **Materials:** • Insulator: LCP, Black Finish, UL94V-0 • Contacts: Phosphor Bronze, Gold Plated Finish • Metal Fittings: Phosphor Bronze, Tin-Copper plated Finish

No.of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R† Pricing 1,000	Hirose Part No.
Receptacles								
With Metal Fitting								
20	6.22	3.6	H11591CT-ND	1.67	1.37	1.10	585.20	DF30FB-20DS-0.4V(82)
24	7.02	4.4	H11593CT-ND	1.75	1.43	1.15	611.80	DF30FB-24DS-0.4V(82)
30	8.22	5.6	H11595CT-ND	1.86	1.52	1.23	651.70	DF30FB-30DS-0.4V(82)
34	9.02	6.4	H11597CT-ND	1.69	1.41	1.17	691.60	DF30FB-34DS-0.4V(82)
40	10.22	7.6	H11599CT-ND	1.89	1.57	1.31	771.40	DF30FB-40DS-0.4V(82)
44	11.02	8.4	H11601CT-ND	1.44	1.18	.95	505.40	DF30FB-44DS-0.4V(82)
50	12.22	9.6	H11603CT-ND	2.21	1.84	1.53	904.40	DF30FB-50DS-0.4V(82)
60	14.22	11.6	H11605CT-ND	2.50	2.08	1.74	1024.10	DF30FB-60DS-0.4V(82)
Without Metal Fitting								
20	6.22	3.6	H3859CT-ND	1.63	1.34	1.08	572.00	DF30FC-20DS-0.4V(82)
24	7.02	4.4	H3860CT-ND	1.67	1.37	1.10	585.00	DF30FC-24DS-0.4V(82)
30	8.22	5.6	H3861CT-ND	1.82	1.49	1.20	638.00	DF30FC-30DS-0.4V(82)
34	9.02	6.4	H3862CT-ND	1.63	1.35	1.13	665.00	DF30FC-34DS-0.4V(82)
40	10.22	7.6	H3855CT-ND	1.85	1.54	1.29	758.00	DF30FC-40DS-0.4V(82)
50	12.22	9.6	H3863CT-ND	2.18	1.81	1.51	891.00	DF30FC-50DS-0.4V(82)
60	14.22	11.6	H3857CT-ND	2.44	2.03	1.69	998.00	DF30FC-60DS-0.4V(82)
Headers								
With Metal Fitting								
20	5.14	3.6	H11590CT-ND	.76	.62	.50	266.00	DF30RB-20DP-0.4V(82)
24	5.94	4.4	H11592CT-ND	.91	.75	.60	319.20	DF30RB-24DP-0.4V(82)
30	7.14	5.6	H11594CT-ND	1.06	.87	.70	372.40	DF30RB-30DP-0.4V(82)
34	7.94	6.4	H11596CT-ND	1.06	.87	.70	372.40	DF30RB-34DP-0.4V(82)
40	9.14	7.6	H11598CT-ND	1.22	1.00	.80	425.60	DF30RB-40DP-0.4V(82)
44	9.94	8.4	H11600CT-ND	1.41	1.15	.93	492.10	DF30RB-44DP-0.4V(82)
50	11.14	9.6	H11602CT-ND	1.67	1.37	1.10	585.20	DF30RB-50DP-0.4V(82)
60	13.14	11.6	H11604CT-ND	1.63	1.35	1.13	665.00	DF30RB-60DP-0.4V(82)
Without Metal Fitting								
20	5.14	3.6	H3864CT-ND	1.75	1.43	1.15	612.00	DF30FC-20DP-0.4V(82)
24	5.94	4.4	H3865CT-ND	1.86	1.52	1.23	652.00	DF30FC-24DP-0.4V(82)
30	7.14	5.6	H3866CT-ND	1.72	1.44	1.20	705.00	DF30FC-30DP-0.4V(82)
34	7.94	6.4	H3867CT-ND	1.82	1.52	1.26	745.00	DF30FC-34DP-0.4V(82)
40	9.14	7.6	H3856CT-ND	1.95	1.62	1.35	798.00	DF30FC-40DP-0.4V(82)
50	11.14	9.6	H3868CT-ND	2.34	1.95	1.62	958.00	DF30FC-50DP-0.4V(82)
60	13.14	11.6	H3858CT-ND	2.57	2.14	1.78	1051.00	DF30FC-60DP-0.4V(82)

† For Tape and Reel part number, change CT-ND to TR-ND.

DF40 Surface Mount Connectors - 0.4mm Pitch

Receptacle

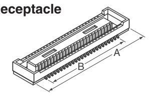

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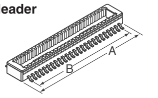

Applications: • Cellular phones • Digital video cameras • Digital still cameras • Portable devices and other small applications requiring reliable board-to-board or FPC-to-board connections. **Specifications:** • Current Rating: 0.3A • Rated Voltage: 30V AC, DC • Temperature Range: -35°C ~ 85°C • Insulation Resistance: 50MΩ minimum, 100V DC • Contact Resistance: 90mΩ maximum, 1mA, 20mV AC, 1kHz • Withstanding Voltage: No flashover or insulation breakdown, 100V AC/one minute • Durability (insertion/withdrawal): 30 cycles **Material (receptacle/header):** • Insulator: LCP, black, UL94V-0 • Contacts: Phosphor bronze, gold plating

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty .	Pricing	Hirose Part No.
Receptacles									
10	4.6	1.6	H11617CT-ND	.64	.39	.31	5,000	163.00/M	DF40C-10DS-0.4V(51)
20	6.6	3.6	H11619CT-ND	.65	.48	.39	5,000	219.00/M	DF40C-20DS-0.4V(51)
24	7.4	4.4	H11621CT-ND	.72	.53	.43	5,000	242.00/M	DF40C-24DS-0.4V(51)
30	8.6	5.6	H11623CT-ND	.84	.61	.50	5,000	281.00/M	DF40C-30DS-0.4V(51)
30	8.6	5.6	H11771CT-ND✔	1.25	.91	.75	4,000	429.00/M	DF40C(2.0)-30DS-0.4V(51)
30	8.6	5.6	H11775CT-ND✔	1.33	.97	.79	2,000	455.00/M	DF40HC(3.5)-30DS-0.4V(51)
40	10.6	7.6	H11625CT-ND	1.03	.75	.61	5,000	344.00/M	DF40C-40DS-0.4V(51)
40	10.6	7.6	H11772CT-ND✔	1.37	.99	.81	4,000	468.00/M	DF40C(2.0)-40DS-0.4V(51)
50	12.6	9.6	H11627CT-ND	1.18	.86	.70	5,000	395.00/M	DF40C-50DS-0.4V(51)
50	12.6	9.6	H11776CT-ND✔	1.86	1.35	1.11	2,000	637.00/M	DF40HC(3.5)-50DS-0.4V(51)
60	14.6	11.6	H11629CT-ND	1.41	1.02	.84	5,000	472.00/M	DF40C-60DS-0.4V(51)
60	14.6	11.6	H11774CT-ND✔	1.72	1.33	1.06	3,000	676.00/M	DF40HC(2.5)-60DS-0.4V(51)
70	16.6	13.6	H11631CT-ND	1.44	1.05	.86	5,000	485.00/M	DF40C-70DS-0.4V(51)
80	18.6	15.6	H11633CT-ND	1.82	1.32	1.08	5,000	612.00/M	DF40C-80DS-0.4V(51)
80	18.6	15.6	H11773CT-ND✔	2.05	1.58	1.26	4,000	803.00/M	DF40C(2.0)-80DS-0.4V(51)
90	20.6	17.6	H11877CT-ND✔	1.85	1.43	1.14	5,000	712.50/M	DF40C-90DS-0.4V(51)
100	22.6	19.6	H11615CT-ND	1.92	1.48	1.18	5,000	738.00/M	DF40C-100DS-0.4V(51)
Headers									
10	3.52	1.6	H11616CT-ND	.72	.53	.43	5,000	242.00/M	DF40C-10DP-0.4V(51)
20	5.52	3.6	H11618CT-ND	.80	.58	.48	5,000	268.00/M	DF40C-20DP-0.4V(51)
24	6.32	4.4	H11620CT-ND	.91	.66	.54	5,000	306.00/M	DF40C-24DP-0.4V(51)
30	7.52	5.6	H11622CT-ND	.95	.69	.57	5,000	319.00/M	DF40C-30DP-0.4V(51)
40	9.52	7.6	H11624CT-ND	1.06	.77	.63	5,000	357.00/M	DF40C-40DP-0.4V(51)
50	11.52	9.6	H11626CT-ND	1.25	.91	.75	5,000	421.00/M	DF40C-50DP-0.4V(51)
60	13.52	11.6	H11628CT-ND	1.41	1.02	.84	5,000	472.00/M	DF40C-60DP-0.4V(51)
70	15.52	13.6	H11630CT-ND	1.60	1.16	.95	5,000	536.00/M	DF40C-70DP-0.4V(51)
80	17.52	15.6	H11632CT-ND	1.71	1.24	1.02	5,000	574.00/M	DF40C-80DP-0.4V(51)
90	19.52	17.6	H11878CT-ND✔	2.11	1.63	1.30	5,000	812.50/M	DF40C-90DP-0.4V(51)
100	21.52	19.6	H11614CT-ND	1.72	1.33	1.06	5,000	663.00/M	DF40C-100DP-0.4V(51)

✔ ***NEW!*** † For Tape and Reel part number, change CT-ND to TR-ND.

NEW! BM10 Surface Mount Connectors - 0.4mm Pitch

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Voltage Rating: 30VAC • Current Rating: 0.3A **Electrical Characteristics:** • Contact Resistance: 100mΩ maximum • Insulation Resistance: 50MΩ minimum • Voltage Proof: 100VAC for 1 min.

Receptacle

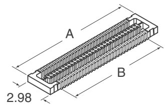

Header

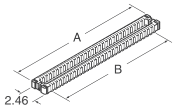

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R† Pricing 8,000	Hirose Part No.
Receptacles								
10	4.4	1.6	H11821CT-ND	.74	.61	.49	248.63/M	BM10NB(0.6)-10DS-0.4V(51)
10	4.4	1.6	H11822CT-ND	.74	.61	.49	248.63/M	BM10NB(0.8)-10DS-0.4V(51)
16	5.6	2.8	H11823CT-ND	.91	.74	.60	306.00/M	BM10NB(0.8)-16DS-0.4V(51)
20	6.4	3.6	H11824CT-ND	.99	.81	.65	331.50/M	BM10NB(0.8)-20DS-0.4V(51)
24	7.2	4.4	H11825CT-ND	1.10	.90	.73	369.75/M	BM10NB(0.8)-24DS-0.4V(51)
30	8.4	5.6	H11826CT-ND	1.25	1.02	.83	470.75/M	BM10NB(0.8)-30DS-0.4V(51)
34	9.2	6.4	H11827CT-ND	1.33	1.09	.88	446.25/M	BM10NB(0.8)-34DS-0.4V(51)
40	10.4	7.6	H11828CT-ND	1.48	1.21	.98	497.25/M	BM10NB(0.8)-40DS-0.4V(51)
44	11.2	8.4	H11829CT-ND	1.79	1.46	1.18	599.25/M	BM10NB(0.8)-44DS-0.4V(51)
50	12.4	9.6	H11830CT-ND	1.71	1.40	1.13	573.75/M	BM10NB(0.8)-50DS-0.4V(51)
60	14.4	11.6	H11831CT-ND	1.79	1.49	1.24	687.50/M	BM10NB(0.8)-60DS-0.4V(51)
Headers								
10	3.32	1.6	H11810CT-ND	.65	.53	.43	218.03/M	BM10B(0.6)-10DP-0.4V(51)
10	3.32	1.6	H11811CT-ND	.66	.54	.43	220.58/M	BM10B(0.8)-10DP-0.4V(51)
16	4.52	2.8	H11812CT-ND	.75	.61	.49	251.18/M	BM10B(0.8)-16DP-0.4V(51)
20	5.32	3.6	H11813CT-ND	.84	.68	.55	280.50/M	BM10B(0.8)-20DP-0.4V(51)
24	6.12	4.4	H11814CT-ND	.91	.74	.60	306.00/M	BM10B(0.8)-24DP-0.4V(51)
30	7.32	5.6	H11815CT-ND	1.03	.84	.68	344.25/M	BM10B(0.8)-30DP-0.4V(51)
34	8.12	6.4	H11816CT-ND	1.10	.90	.73	369.75/M	BM10B(0.8)-34DP-0.4V(51)
40	9.32	7.6	H11817CT-ND	1.18	.96	.78	395.25/M	BM10B(0.8)-40DP-0.4V(51)
44	10.12	8.4	H11818CT-ND	1.29	1.05	.85	433.50/M	BM10B(0.8)-44DP-0.4V(51)
50	11.32	9.6	H11819CT-ND	1.37	1.12	.90	459.00/M	BM10B(0.8)-50DP-0.4V(51)
60	13.32	11.6	H11820CT-ND	1.67	1.36	1.10	561.00/M	BM10B(0.8)-60DP-0.4V(51)

† For Tape and Reel part number, change CT-ND to TR-ND.

NEW! DF37 Surface Mount Connectors - 0.4mm Pitch

Applications: • Mobile phones • Digital cameras • Digital camcorders, and other thin portable devices requiring high reliability board-to-board/board-to-FPC connections. **Specifications:** • Current Rating: 0.3A • Voltage Rating: 30V AC, DC • Operating Temperature Range: -35°C ~ 85°C • Insulation Range: 500MΩ minimum • Withstanding Voltage: No flashover or insulation breakdown, 100VAC/one minute • Contact Resistance: 100mΩ maximum **Materials:** • Insulator: LCP, black, UL94V-0 • Contacts: Phosphor bronze, gold plating

Receptacle

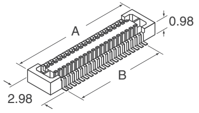

Header

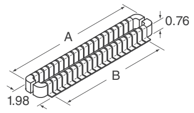

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Qty.	Pricing	Hirose Part No.
Receptacles									
With Metal Fitting									
10	4.22	1.6	H11848CT-ND	.74	.61	.49	8,000	247.35/M	DF37NB-10DS-0.4V(51)
20	6.22	3.6	H11849CT-ND	.95	.78	.63	8,000	318.75/M	DF37NB-20DS-0.4V(51)
24	7.02	4.4	H11850CT-ND	1.14	.93	.75	8,000	382.50/M	DF37NB-24DS-0.4V(51)
30	8.22	5.6	H11851CT-ND	1.25	1.03	.83	8,000	420.75/M	DF37NB-30DS-0.4V(51)
40	10.22	7.6	H11852CT-ND	1.48	1.21	.98	8,000	497.25/M	DF37NB-40DS-0.4V(51)
60	14.22	11.6	H11853CT-ND	1.76	1.46	1.22	8,000	675.00/M	DF37NB-60DS-0.4V(51)
Without Metal Fitting									
10	4.22	1.6	H11854CT-ND	.69	.57	.46	8,000	230.78/M	DF37NC-10DS-0.4V(51)
20	6.22	3.6	H11855CT-ND	.95	.78	.63	8,000	318.75/M	DF37NC-20DS-0.4V(51)
30	8.22	5.6	H11856CT-ND	1.22	1.00	.80	8,000	408.00/M	DF37NC-30DS-0.4V(51)
40	10.22	7.6	H11857CT-ND	1.44	1.18	.95	8,000	484.50/M	DF37NC-40DS-0.4V(51)
Headers									
With Metal Fitting									
10	3.14	1.6	H11832CT-ND	1.22	1.00	.80	8,000	408.00/M	DF37B-10DP-0.4V(53)
16	4.34	2.8	H11833CT-ND	1.41	1.15	.93	8,000	471.75/M	DF37B-16DP-0.4V(53)
20	5.14	3.6	H11834CT-ND	1.52	1.24	1.00	1,000	532.00	DF37B-20DP-0.4V(53)
24	5.94	4.4	H11835CT-ND	1.60	1.31	1.05	1,000	558.60	DF37B-24DP-0.4V(53)
30	7.14	5.6	H11836CT-ND	1.82	1.49	1.20	1,000	638.40	DF37B-30DP-0.4V(53)
40	9.14	7.6	H11837CT-ND	1.89	1.57	1.31	1,000	771.40	DF37B-40DP-0.4V(53)
50	11.14	9.6	H11838CT-ND	2.08	1.73	1.44	1,000	851.20	DF37B-50DP-0.4V(53)
60	13.14	11.6	H11839CT-ND	2.28	1.89	1.58	1,000	931.00	DF37B-60DP-0.4V(53)
Without Metal Fitting									
10	3.14	1.6	H11840CT-ND	1.18	.97	.78	1,000	412.30	DF37C-10DP-0.4V(53)
16	4.34	2.8	H11841CT-ND	1.44	1.18	.95	1,000	505.40	DF37C-16DP-0.4V(53)
20	5.14	3.6	H11842CT-ND	1.56	1.28	1.03	1,000	545.30	DF37C-20DP-0.4V(53)
24	5.94	4.4	H11843CT-ND	1.63	1.34	1.08	1,000	571.90	DF37C-24DP-0.4V(53)
30	7.14	5.6	H11844CT-ND	1.63	1.35	1.13	1,000	665.00	DF37C-30DP-0.4V(53)
40	9.14	7.6	H11845CT-ND	1.85	1.54	1.29	1,000	758.10	DF37C-40DP-0.4V(53)
50	11.14	9.6	H11846CT-ND	2.18	1.81	1.51	1,000	891.10	DF37C-50DP-0.4V(53)
60	13.14	11.6	H11847CT-ND	2.37	1.98	1.65	1,000	970.90	DF37C-60DP-0.4V(53)

† For Tape and Reel part number, change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

DF17 Surface Mount Connectors - 0.5mm Pitch

Features: • Developed for portable electronic and mobile telecommunications equipment • Designed specifically for mobile electronic devices, these connectors withstand the shock and resist breakage and disconnection that can occur when subjected to drop impact. **Applications:** Suited to a wide variety of mobile applications such as LCD-related equipment, miniature portable remote terminals, as well as portable telephones. **Specifications:** • Rated Current: 0.3A • Rated Voltage: 50V AC • Temperature Range: -35°C ~ 85°C • Storage Temperature: -10°C ~ 60°C • Humidity Range: 40% ~ 80% • Storage Humidity: 40% ~ 70% • Insulation Resistance: 500MΩ or more • Contact Resistance: 60mΩ or less • Vibration Resistance: No instantaneous electric disconnection of 1µS or more • Humidity Resistance: 60mΩ or less for Contact, 250MΩ or more for Insulation • Temperature Cycle: 60mΩ or less for contact resistance, 500MΩ or more for Insulation Resistance • Duration Against Plugging/Unplugging: Contact resistance 60mΩ or less • Heat Resistance of Soldering: No fusion of resin section affecting performance **Material (Receptacle/Header):** • Insulator: Polyamide resin, white, UL94V-0 • Contacts: Phosphor copper, gold plating • Metal Fittings: Phosphor copper, Tin-lead plating

Receptacle

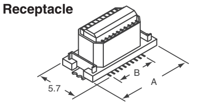

Shown with reinforced fittings

Header

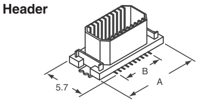

Shown with reinforced fittings

No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R◊ Pricing 1,000	Hirose Part No.
Receptacles								
4mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant								
30	12.5	7.0	H11578CT-ND	1.79	1.38	1.10	732.00	DF17A(3.0H)-30DS-0.5V(57)
5mm, 7mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H11559CT-ND	1.82	1.32	1.08	638.00	DF17A(3.0)-20DS-0.5V(57)
30	12.5	7.0	H2355CT-ND	1.98	1.53	1.22	—	DF17A(3.0)-30DS-0.5V(51)
40	15.0	9.5	H11607CT-ND	1.98	1.53	1.22	811.30	DF17A(3.0)-40DS-0.5V(57)
50	17.5	12.0	H11606CT-ND	2.21	1.70	1.36	904.40	DF17A(3.0)-50DS-0.5V(57)
6mm, 8mm Stacking Height – With Guide Posts, Without Reinforced Fittings								
20	10.0	4.5	H11121CT-ND◆	1.66	1.28	1.02	678.00	DF17A(4.0)-20DS-0.5V(57)
30	12.5	7.0	H11122CT-ND◆	1.92	1.48	1.18	785.00	DF17A(4.0)-30DS-0.5V(57)
40	15.0	9.5	H11123CT-ND◆	2.21	1.70	1.36	904.00	DF17A(4.0)-40DS-0.5V(57)
50	17.5	12.0	H11124CT-ND◆	2.44	1.88	1.50	998.00	DF17A(4.0)-50DS-0.5V(57)
60	20.0	14.5	H11125CT-ND◆	2.73	2.10	1.68	1117.00	DF17A(4.0)-60DS-0.5V(57)
70	22.5	17.0	H2303CT-ND	3.13	2.41	1.93	—	DF17A(4.0)-70DS-0.5V(51)
70	22.5	17.0	H11126CT-ND◆	3.02	2.33	1.86	1237.00	DF17A(4.0)-70DS-0.5V(57)
80	25.0	19.5	H11127CT-ND◆	3.68	2.86	2.29	1651.00	DF17A(4.0)-80DS-0.5V(57)
5mm, 7mm Stacking Height – With Guide Posts, With Reinforced Fittings								
20	10.0	4.5	H11107CT-ND◆	1.63	1.25	1.00	665.00	DF17(3.0)-20DS-0.5V(57)
30	12.5	7.0	H11108CT-ND◆	1.79	1.38	1.10	732.00	DF17(3.0)-30DS-0.5V(57)
40	15.0	9.5	H11109CT-ND◆	2.02	1.55	1.24	825.00	DF17(3.0)-40DS-0.5V(57)
50	17.5	12.0	H2370CT-ND	2.65	2.04	1.63	—	DF17(3.0)-50DS-0.5V(51)
50	17.5	12.0	H11110CT-ND◆	2.28	1.75	1.40	931.00	DF17(3.0)-50DS-0.5V(57)
60	20.0	14.5	H2371CT-ND	3.00	2.31	1.85	—	DF17(3.0)-60DS-0.5V(51)
60	20.0	14.5	H11111CT-ND◆	2.47	1.90	1.52	1011.00	DF17(3.0)-60DS-0.5V(57)
70	22.5	17.0	H11112CT-ND◆	2.73	2.10	1.68	1117.00	DF17(3.0)-70DS-0.5V(57)
80	25.0	19.5	H11113CT-ND◆	2.99	2.30	1.84	1224.00	DF17(3.0)-80DS-0.5V(57)
6mm, 8mm Stacking Height – With Guide Posts, With Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H11114CT-ND	1.76	1.35	1.08	718.00	DF17(4.0)-20DS-0.5V(57)
30	12.5	7.0	H11115CT-ND	1.98	1.53	1.22	811.00	DF17(4.0)-30DS-0.5V(57)
40	15.0	9.5	H11116CT-ND	2.28	1.75	1.40	931.00	DF17(4.0)-40DS-0.5V(57)
50	17.5	12.0	H11117CT-ND	2.54	1.95	1.56	1037.00	DF17(4.0)-50DS-0.5V(57)
60	20.0	14.5	H11118CT-ND	2.80	2.15	1.72	1144.00	DF17(4.0)-60DS-0.5V(57)
70	22.5	17.0	H11119CT-ND	3.12	2.40	1.92	1277.00	DF17(4.0)-70DS-0.5V(57)
80	25.0	19.5	H11120CT-ND	3.68	2.86	2.29	1651.00	DF17(4.0)-80DS-0.5V(57)
Headers								
4mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant								
30	12.5	7.0	H11577CT-ND	1.72	1.33	1.06	705.00	DF17A(1.0H)-30DP-0.5V(57)
5mm, 6mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H11135CT-ND	2.02	1.55	1.24	825.00	DF17A(2.0)-20DP-0.5V(57)
30	12.5	7.0	H11136CT-ND	2.50	1.93	1.54	1024.00	DF17A(2.0)-30DP-0.5V(57)
40	15.0	9.5	H11137CT-ND	2.96	2.28	1.82	1210.00	DF17A(2.0)-40DP-0.5V(57)
50	17.5	12.0	H11138CT-ND	3.07	2.39	1.91	1378.00	DF17A(2.0)-50DP-0.5V(57)
60	20.0	14.5	H11139CT-ND	3.51	2.73	2.18	1573.00	DF17A(2.0)-60DP-0.5V(57)
70	22.5	17.0	H11140CT-ND	3.94	3.06	2.45	1768.00	DF17A(2.0)-70DP-0.5V(57)
80	25.0	19.5	H11141CT-ND	5.70	4.43	3.55	2557.00	DF17A(2.0)-80DP-0.5V(57)
7mm, 8mm Stacking Height – With Guide Posts, Without Reinforced Fittings								
20	10.0	4.5	H2387CT-ND	1.69	1.30	1.04	—	DF17A(4.0)-20DP-0.5V(51)
20	10.0	4.5	H11149CT-ND◆	2.24	1.73	1.38	918.00	DF17A(4.0)-20DP-0.5V(57)
30	12.5	7.0	H11150CT-ND◆	2.76	2.13	1.70	1131.00	DF17A(4.0)-30DP-0.5V(57)
40	15.0	9.5	H2389CT-ND	2.48	1.91	1.53	—	DF17A(4.0)-40DP-0.5V(51)
40	15.0	9.5	H11151CT-ND◆	3.71	2.88	2.31	1664.00	DF17A(4.0)-40DP-0.5V(57)
50	17.5	12.0	H11152CT-ND◆	3.48	2.70	2.16	1560.00	DF17A(4.0)-50DP-0.5V(57)
60	20.0	14.5	H2391CT-ND	2.93	2.28	1.82	—	DF17A(4.0)-60DP-0.5V(51)
60	20.0	14.5	H11153CT-ND◆	3.92	3.04	2.43	1755.00	DF17A(4.0)-60DP-0.5V(57)
70	22.5	17.0	H11154CT-ND◆	4.47	3.47	2.78	2002.00	DF17A(4.0)-70DP-0.5V(57)
80	25.0	19.5	H11155CT-ND◆	5.68	4.41	3.53	2548.00	DF17A(4.0)-80DP-0.5V(57)
5mm, 6mm Stacking Height – With Guide Posts, With Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H11128CT-ND	2.11	1.63	1.30	865.00	DF17(2.0)-20DP-0.5V(57)
30	12.5	7.0	H11129CT-ND	2.60	2.00	1.60	1064.00	DF17(2.0)-30DP-0.5V(57)
40	15.0	9.5	H11130CT-ND	3.06	2.35	1.88	1250.00	DF17(2.0)-40DP-0.5V(57)
50	17.5	12.0	H11131CT-ND	3.16	2.46	1.97	1417.00	DF17(2.0)-50DP-0.5V(57)
60	20.0	14.5	H11387CT-ND	3.60	2.79	2.24	1612.00	DF17(2.0)-60DP-0.5V(57)
70	22.5	17.0	H11133CT-ND	4.06	3.15	2.52	1820.00	DF17(2.0)-70DP-0.5V(57)
80	25.0	19.5	H11134CT-ND	5.25	4.08	3.26	2353.00	DF17(2.0)-80DP-0.5V(57)
7mm, 8mm Stacking Height – With Guide Posts, With Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H11142CT-ND	2.31	1.78	1.42	944.00	DF17(4.0)-20DP-0.5V(57)
30	12.5	7.0	H11143CT-ND	2.86	2.20	1.76	1170.00	DF17(4.0)-30DP-0.5V(57)
40	15.0	9.5	H11144CT-ND	3.05	2.37	1.89	1365.00	DF17(4.0)-40DP-0.5V(57)
50	17.5	12.0	H11145CT-ND	3.60	2.79	2.24	1612.00	DF17(4.0)-50DP-0.5V(57)
60	20.0	14.5	H11146CT-ND	4.03	3.13	2.51	1807.00	DF17(4.0)-60DP-0.5V(57)
70	22.5	17.0	H11147CT-ND	4.55	3.54	2.83	2041.00	DF17(4.0)-70DP-0.5V(57)
80	25.0	19.5	H11148CT-ND	5.80	4.50	3.60	2600.00	DF17(4.0)-80DP-0.5V(57)

◆ *RoHS Compliant* ◊ For Tape and Reel part number, change CT-ND to TR-ND.

FX10 Series - Surface Mount Connectors - 0.5mm Pitch with Ground Plate for Board-to-Board Connections

Features:
Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle. Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to high-density applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting. Board-to-Board dimensions of 4mm and 5mm are available.

Materials: • Insulator: LCP resin, Beige, UL94V–0 • Contacts: Phosphor bronze • Header Engagement Area: Gold plating of 0.1µm • Termination Area: Solder plating • Receptacle Engagement Area: Gold plating of 0.1m • Termination Area: Flash plating Ground plate: Phosphor bronze, solder plating • Reinforced fitting: Phosphor bronze, Tin plating Electrical: • Rated current: 0.3A • Operating temperature range: -55 ~ 85°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)
Note: The thickness of the solder paste is not included in the stack height.

Fig.	Mounting Height	No. of Contacts Signal	No. of Contacts Ground	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
Headers													
With Guideposts													
1	4mm	80	8	31.1	23.5	H11240-ND◆	5.71	4.44	3.55	FX10A-80P/8-SV(71)	H11240TR-ND◆	2379.00	FX10A-80P/8-SV(91)
	4mm	100	10	37.1	29.5	H11241-ND◆	6.38	4.95	3.96	FX10A-100P/10-SV(71)	H11241TR-ND◆	2652.00	FX10A-100P/10-SV(91)
	4mm	120	12	43.1	35.5	H11242-ND◆	6.93	5.38	4.31	FX10A-120P/12-SV(71)	H11243TR-ND◆	2886.00	FX10A-120P/12-SV(91)
	4mm	140	14	49.1	41.5	H11244-ND◆	6.84	5.53	4.34	FX10A-140P/14-SV(71)	H11244TR-ND◆	3172.00	FX10A-140P/14-SV(91)
	5mm	80	8	31.1	23.5	H11245-ND◆	5.71	4.44	3.55	FX10A-80P/8-SV1(71)	H11245TR-ND◆	2366.00	FX10A-80P/8-SV1(91)
	5mm	100	10	37.1	29.5	H11246-ND◆	6.32	4.91	3.93	FX10A-100P/10-SV1(71)	H11246TR-ND◆	2626.00	FX10A-100P/10-SV1(91)
	5mm	120	12	43.1	35.5	H2486-ND	6.44	5.00	4.00	FX10A-120P/12-SV1	—	—	—
	5mm	120	12	43.1	35.5	H11247-ND◆	6.90	5.36	4.29	FX10A-120P/12-SV1(71)	H11247TR-ND◆	2873.00	FX10A-120P/12-SV1(91)
	5mm	140	14	49.1	41.5	H11248-ND◆	6.79	5.49	4.31	FX10A-140P/14-SV1(71)	H11248TR-ND◆	3146.00	FX10A-140P/14-SV1(91)
Without Guideposts — RoHS Compliant													
1	4mm	80	8	31.1	23.5	H11249-ND	5.71	4.44	3.55	FX10B-80P/SV(71)	H11249TR-ND	2379.00	FX10B-80P/8-SV(91)
	4mm	100	10	37.1	29.5	H11225-ND	6.38	4.95	3.96	FX10B-100P/10-SV(71)	H11225TR-ND	2652.00	FX10B-100P/10-SV(91)
	4mm	120	12	43.1	35.5	H11226-ND	6.93	5.38	4.31	FX10B-120P/12-SV(71)	H11226TR-ND	2886.00	FX10B-120P/12-SV(91)
	4mm	140	14	49.1	41.5	H11227-ND	6.84	5.53	4.34	FX10B-140P/14-SV(71)	H11227TR-ND	3172.00	FX10B-140P/14-SV(91)
	5mm	80	8	31.1	23.5	H11228-ND	5.71	4.44	3.55	FX10B-80P/8-SV1(71)	H11228TR-ND	2366.00	FX10B-80P/8-SV1(91)
	5mm	100	10	37.1	29.5	H11229-ND	6.32	4.91	3.93	FX10B-100P/8-SV1(71)	H11229TR-ND	2626.00	FX10B-100P/10-SV1(91)
	5mm	120	12	43.1	35.5	H11230-ND	6.90	5.36	4.29	FX10B-120P/12-SV1(71)	H11230TR-ND	2873.00	FX10B-120P/12-SV1(91)
	5mm	140	14	49.1	41.5	H11231-ND	6.79	5.49	4.31	FX10B-140P/14-SV1(71)	H11231TR-ND	3146.00	FX10B-140P/14-SV1(91)
Receptacles — RoHS Compliant													
With Guideposts													
2	—	80	8	31.1	23.5	H11232-ND	5.77	4.48	3.59	FX10A-80S/8-SV(71)	H11232TR-ND	2405.00	FX10A-80S/8-SV(91)
	—	100	10	37.1	29.5	H11233-ND	6.47	5.02	4.02	FX10A-100S/10-SV(71)	H11233TR-ND	2678.00	FX10A-100S/10-SV(91)
	—	120	12	43.1	35.5	H11234-ND	7.22	5.61	4.49	FX10A-120S/12-SV(71)	H11234TR-ND	3003.00	FX10A-120S/12-SV(91)
	—	140	14	49.1	41.5	H11235-ND	7.18	5.80	4.56	FX10A-140S/14-SV(71)	H11235TR-ND	3251.00	FX10A-140S/14-SV(91)
Without Guideposts													
2	—	80	8	31.1	23.5	H11236-ND	5.77	4.48	3.59	FX10B-80S/8-SV(71)	H11236TR-ND	2405.00	FX10B-80S/8-SV(91)
	—	100	10	37.1	29.5	H11237-ND	6.47	5.02	4.02	FX10B-100S/10-SV(71)	H11237TR-ND	2678.00	FX10B-100S/10-SV(91)
	—	120	12	43.1	35.5	H11238-ND	7.22	5.61	4.49	FX10B-120S/12-SV(71)	H11238TR-ND	3003.00	FX10B-120S/12-SV(91)
	—	140	14	49.1	41.5	H11239-ND	7.18	5.80	4.56	FX10B-140S/14-SV(71)	H11239TR-ND	3251.00	FX10B-140S/14-SV(91)

◆ *RoHS Compliant*

Fig. 1

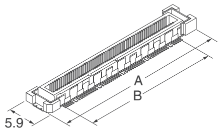

Fig. 2

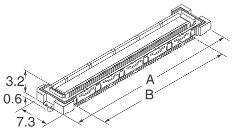

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FX11 Series - Surface Mount Connectors - 0.5mm Pitch - with Ground Plate for 2mm Board-to-Board Connections

Features: Low Profile Design. The board-to-board mating height of 2mm suits smaller, thinner case designs. Improved transmission efficiency between boards. Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle. Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to High-Density Applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

Applications: • Notebook computers • PDA • Other miniature electronic equipment. **Material:** • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Copper alloy • Header: Phosphor bronze • Receptacle: Engagement area: Gold plating of 0.1μm Termination Area: Flash plating Ground plate: Phosphor bronze solder plating • Reinforced fitting/plate: Phosphor bronze, Tin plating **Electrical:** • Rated current: 0.3 A • Operating temperature range: -55 ~ 85°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)

Fig.1

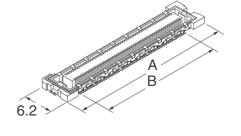

Fig. 2

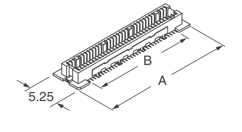

No. of Contacts		Dim. (mm)		Digi-Key	Price Each			Tape and Reel† Pricing	Hirose
Signal	Ground	A	B	Part No.	1	25	100	1,000	Part No.
Fig. 1 — Receptacles									
With Ground Plate and Guideposts									
60	6	25	17.5	H10776-ND	4.84	3.76	3.01	—	FX11LA-60S/6-SV(71)
80	8	31	23.5	H10777-ND	5.37	4.17	3.33	—	FX11LA-80S/8-SV(71)
100	10	37	29.5	H10778-ND	5.89	4.57	3.66	—	FX11LB-100S/10-SV(71)
120	12	43	35.5	H10779-ND	6.41	4.98	3.98	—	FL11LA-120S/12-SV(71)
With Ground Plate, Without Guideposts									
60	6	25	17.5	H10780-ND	4.84	3.76	3.01	—	FX11LB-60S/6-SV(71)
80	8	31	23.5	H10781-ND	5.37	4.17	3.33	—	FX11LB-80S/8-SV(71)
100	10	37	29.5	H10782-ND	5.89	4.57	3.66	—	FX11LB-100S/10-SV(71)
120	12	43	35.5	H10783-ND	6.41	4.98	3.98	—	FX11LB-120S/12-SV(71)
Without Ground Plate, With Guideposts									
68	—	25	16.5	H2541-ND	4.26	3.31	2.65	—	FX11LA-68S-SV
68	—	25	16.5	H2541CT-ND✔	4.03	3.13	2.51	1807.00	FX11LA-68S-SV(21)
92	—	31	22.5	H2542CT-ND✔	4.50	3.49	2.79	2015.00	FX11LA-92S-SV(21)
116	—	37	28.5	H2543CT-ND✔	4.99	3.87	3.10	2236.00	FX11LA-116S-SV(21)
140	—	43	34.5	H2544-ND	5.92	4.59	3.68	—	FX11LA-140S-SV
Without Ground Plate and Guideposts									
68	—	25	16.5	H2545-ND	4.26	3.31	2.65	—	FX11LB-68S-SV
68	—	25	16.5	H2545CT-ND✔	4.03	3.13	2.51	1807.00	FX11LB-68S-SV(21)
92	—	31	22.5	H2546-ND	4.76	3.69	2.96	—	FX11LB-92S-SV
92	—	31	22.5	H2546CT-ND✔	4.50	3.49	2.79	2015.00	FX11LB-92S-SV(21)
116	—	37	28.5	H2547CT-ND✔	4.99	3.87	3.10	2236.00	FX11LB-116S-SV(21)
140	—	43	34.5	H2548CT-ND✔	5.45	4.23	3.39	2444.00	FX11LB-140S-SV(21)

No. of Contacts		Dim. (mm)		Digi-Key	Price Each			Tape and Reel† Pricing	Hirose
Signal	Ground	A	B	Part No.	1	25	100	1,000	Part No.
Fig. 2 — Headers									
With Ground Plate and Guideposts									
60	6	22.6	17.5	H10768-ND	4.67	3.63	2.90	—	FX11LA-60P/6-SV(71)
80	8	28.6	23.5	H10769-ND	5.19	4.03	3.23	—	FX11LA-80P/8-SV(71)
100	10	34.6	29.5	H10770-ND	5.68	4.41	3.53	—	FX11LA-100P/10-SV(71)
120	12	40.6	35.5	H10771-ND	6.21	4.82	3.86	—	FX11LA-120P/12-SV(71)
With Ground Plate, Without Guideposts									
60	6	22.6	17.5	H10772-ND	4.67	3.63	2.90	—	FX11LB-60P/6-SV(71)
80	8	28.6	23.5	H10773-ND	5.19	4.03	3.23	—	FX11LB-80P/8-SV(71)
100	10	34.6	29.5	H10774-ND	5.68	4.41	3.53	—	FX11LB-100P/10-SV(71)
120	12	40.6	35.5	H10775-ND	6.21	4.82	3.86	—	FX11LB-120P/12-SV(71)
Without Ground Plate, With Guideposts									
68	—	22.6	16.5	H2533-ND	3.60	2.79	2.24	—	FX11LA-68P-SV
68	—	22.6	16.5	H2533CT-ND✔	3.42	2.66	2.13	1534.00	FX11LA-68P-SV(21)
92	—	28.6	22.5	H2534CT-ND✔	3.77	2.93	2.34	1690.00	FX11LA-92P-SV(21)
116	—	34.6	28.5	H2535CT-ND✔	4.18	3.24	2.60	1872.00	FX11LA-116P-SV(21)
140	—	40.6	34.5	H2536-ND	4.99	3.87	3.10	—	FX11LA-140P-SV
Without Ground Plate and Guideposts									
68	—	22.6	16.5	H2537-ND	3.60	2.79	2.24	—	FX11LB-68P-SV
68	—	22.6	16.5	H2537CT-ND✔	3.42	2.66	2.13	1534.00	FX11LB-68P-SV(21)
92	—	28.6	22.5	H2538-ND	4.15	3.22	2.58	—	FX11LB-92P-SV
92	—	28.6	22.5	H2538CT-ND✔	3.77	2.93	2.34	1690.00	FX11LB-92P-SV(21)
116	—	34.6	28.5	H2539CT-ND✔	4.18	3.24	2.60	1872.00	FX11LB-116P-SV(21)
140	—	40.6	34.5	H2540-ND	4.99	3.87	3.10	—	FX11LB-140P-SV

✔ ***NEW!*** † For Tape and Reel part number, change CT-ND to TR-ND.

FX8 Series Connectors -

0.6mm Pitch - Single Row (SMT)

Features: • 3-16mm stacking height • The engagement portion is designed to prevent erroneous insertion and a bellows structure that is not susceptible to twisting has been used in the contacts • The SMT soldering lead portion protrudes about 0.7mm beyond the outer surface of the housing, enabling image processing for automatic mounting and affording excellent repair qualities • Connectors are equipped with board positioning bosses which prevent incorrect insertion to the board by means of boss position and boss diameter. **Electrical:** • Current Capacity: 0.4A per pin • Rated Voltage: 100VAC • Insulation Resistance: 1000MΩ or greater at 250VDC • Withstand Voltage: 300VAC r.m.s. for one minute at specified value • Contact Resistance: 45mΩ or less at 100mA DC **Material and Finish:** • Insulation: PBS, light brown, UL94V-0 • Header Contacts: Phosphor bronze, gold-plated contacts, Tin-lead plated • Receptacle Contacts: Phosphor bronze, gold-plated contacts and leads

Fig. 1

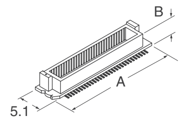

Fig. 2

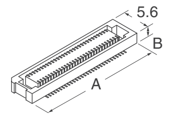

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key	Price Each			Hirose
		A	B	Part No.	1	25	100	Part No.
Vertical Pin Headers								
1	80	30.60	4.45	H1222-ND	4.35	3.38	2.70	FX8C-80P-SV(21)
Vertical Pin Headers — RoHS Compliant								
1	40	18.60	2.45	H10685-ND	2.89	2.23	1.78	FX8-40P-SV(91)
	60	24.60	2.45	H10686-ND	3.07	2.39	1.91	FX8-60P-SV(91)
	60	24.60	3.45	H10691-ND	2.96	2.28	1.82	FX8-60P-SV1(91)
	60	24.60	4.45	H10697-ND	4.38	3.40	2.72	FX8C-60P-SV(91)
	60	24.60	5.45	H11522-ND	4.15	3.22	2.58	FX8C-60P-SV1(91)
	60	24.60	6.45	H11505-ND	4.15	3.22	2.58	FX8C-60P-SV2(91)
	60	24.60	8.45	H11506-ND	4.15	3.22	2.58	FX8C-60P-SV4(91)
	60	24.60	10.45	H11507-ND	4.15	3.22	2.58	FX8C-60P-SV6(91)
	80	30.60	2.45	H10687-ND	3.63	2.82	2.25	FX8-80P-SV(91)
	80	30.60	3.45	H10692-ND	3.07	2.39	1.91	FX8-80P-SV1(91)
	80	30.60	4.45	H10698-ND	4.87	3.78	3.03	FX8C-80P-SV(91)
	80	30.60	5.45	H11508-ND	4.67	3.63	2.90	FX8C-80P-SV1(91)
	80	30.60	6.45	H11509-ND	4.67	3.63	2.90	FX8C-80P-SV2(91)
	80	30.60	8.45	H11510-ND	4.67	3.63	2.90	FX8C-80P-SV4(91)
	80	30.60	10.45	H11511-ND	4.67	3.63	2.90	FX8C-80P-SV6(91)

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key	Price Each			Hirose
		A	B	Part No.	1	25	100	Part No.
1	90	33.60	3.45	H10693-ND	3.34	2.59	2.07	FX8-90P-SV1(91)
	100	36.60	2.45	H10688-ND	4.18	3.24	2.60	FX8-100P-SV(91)
	100	36.60	3.45	H10694-ND	3.54	2.75	2.20	FX8-100P-SV1(91)
	100	36.60	4.45	H10699-ND	5.57	4.32	3.46	FX8C-100P-SV(91)
	100	36.60	5.45	H11512-ND	5.25	4.08	3.26	FX8C-100P-SV1(91)
	100	36.60	6.45	H11513-ND	5.25	4.08	3.26	FX8C-100P-SV2(91)
	100	36.60	8.45	H11514-ND	5.25	4.08	3.26	FX8C-100P-SV4(91)
	100	36.60	10.45	H11523-ND	5.25	4.08	3.26	FX8C-100P-SV6(91)
	120	42.60	2.45	H10689-ND	4.84	3.76	3.01	FX8-120P-SV(91)
	120	42.60	3.45	H10695-ND	3.97	3.09	2.47	FX8-120P-SV1(91)
	120	42.60	4.45	H11520-ND	6.21	4.82	3.86	FX8C-120P-SV(91)
	120	42.60	5.45	H11524-ND	5.80	4.50	3.60	FX8C-120P-SV1(91)
	120	42.60	6.45	H11525-ND	5.80	4.50	3.60	FX8C-120P-SV2(91)
	120	42.60	8.45	H11526-ND ***NEW!***	5.80	4.50	3.60	FX8C-120P-SV4(91)
	120	42.60	10.45	H11527-ND	5.80	4.50	3.60	FX8C-120P-SV6(91)
	140	48.60	2.45	H10690-ND	5.34	4.14	3.32	FX8-140P-SV(91)
	140	48.60	3.45	H10696-ND	4.44	3.45	2.76	FX8-140P-SV1(91)
	140	48.60	4.45	H11521-ND	6.82	5.29	4.23	FX8C-140P-SV(91)
	140	48.60	5.45	H11528-ND	6.41	4.98	3.98	FX8C-140P-SV1(91)
	140	48.60	6.45	H11529-ND	6.41	4.98	3.98	FX8C-140P-SV2(91)
	140	48.60	8.45	H11530-ND	6.41	4.98	3.98	FX8C-140P-SV4(91)
	140	48.60	10.45	H11531-ND	6.41	4.98	3.98	FX8C-140P-SV6(91)
Receptacles — RoHS Compliant								
2	40	18.60	2.25	H1214-ND	3.19	2.45	1.96	FX8-40S-SV(21)
	60	24.60	2.25	H1215-ND	3.45	2.68	2.15	FX8-60S-SV(21)
	80	30.60	2.25	H1216-ND	4.15	3.22	2.58	FX8-80S-SV(21)
	90	33.60	2.25	H1217-ND	4.26	3.31	2.65	FX8-90S-SV(21)
	100	36.60	2.25	H1218-ND	4.79	3.72	2.97	FX8-100S-SV(21)
	120	42.60	2.25	H1219-ND	5.39	4.19	3.35	FX8-120S-SV(21)
	140	48.60	2.25	H1220-ND	6.09	4.73	3.78	FX8-140S-SV(21)
	60	24.60	3.95	H11532-ND	4.47	3.47	2.78	FX8C-60S-SV(91)
	60	24.60	8.95	H11536-ND	4.47	3.47	2.78	FX8C-60S-SV5(91)
	80	30.60	3.95	H11533-ND	5.10	3.96	3.17	FX8C-80S-SV(91)
	80	30.60	8.95	H11537-ND	5.25	4.08	3.26	FX8C-80S-SV5(91)
	100	36.60	3.95	H11534-ND	5.74	4.46	3.57	FX8C-100S-SV(91)
	100	36.60	8.95	H11538-ND	5.89	4.57	3.66	FX8C-100S-SV5(91)
	120	42.60	3.95	H11132-ND	6.44	5.00	4.00	FX8C-120S-SV(91)
	120	42.60	8.95	H10700-ND	6.61	5.13	4.11	FX8C-120S-SV5(91)
	140	48.60	3.95	H11535-ND	7.13	5.54	4.43	FX8C-140S-SV(91)
	140	48.60	8.95	H10701-ND	6.63	5.36	4.21	FX8C-140S-SV5(91)

NEW! FX18 Series - Board to Board Connectors -

with 10$^+$Gbps - 0.8mm Pitch

Features: • Multi functional contact (MF Contact): Ground contact to enhance grounding, power supply contacts up to 12A to reduce required pin counts, 3-step sequential contacts for grounding and detections • Pin through hole mounting MF contacts increase strength against wrenching • Large mating guide for easy mating **Electrical:** • Current Capacity: 0.5A per pin, 3.0A (MF contact) • Rated Voltage: 100VAC • Operating Temperature Range: -55°C ~ 80°C • Contact Resistance: 90mΩ or less at 100mA • Insulation Resistance: 1000MΩ or greater at 250VDC • Voltage Proof: No flashover or insulation breakdown at 300VAC for 1 minute **Material and Finish:** • Insulator: PA, Black, UL94V-0 • Signal Contact: Phosphor bronze, gold-plated contacts and leads • MF Contact: Phosphor bronze, gold-plated contacts, tin-plated leads

Fig. 1

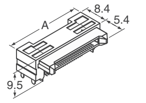

Fig. 2

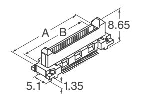

Fig. 3

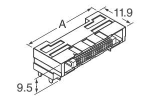

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key	Price Each			Hirose
		A	B	Part No.	1	25	100	Part No.
Header — Right Angle								
1	40	27.9	—	H11868-ND	6.61	5.13	4.11	FX18-40P-0.8SH
	60	35.9	—	H11871-ND	6.68	5.40	4.25	FX18-60P-0.8SH
	120	59.9	—	H11865-ND	8.89	7.19	5.65	FX18-120P-0.8SH
Header — Vertical								
2	40	27.9	24.95	H11869-ND	5.51	4.28	3.42	FX18-40P-0.8SV

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key	Price Each			Hirose
		A	B	Part No.	1	25	100	Part No.
2	60	35.9	32.95	H11872-ND	6.09	4.73	3.78	FX18-60P-0.8SV
	120	59.9	56.95	H11866-ND	6.92	5.59	4.39	FX18-120P-0.8SV
Receptacles — Right Angle								
3	40	27.9	—	H11870-ND	6.61	5.13	4.11	FX18-40S-0.8SH
	60	35.9	—	H11873-ND	6.68	5.40	4.25	FX18-60S-0.8SH
	120	59.9	—	H11867-ND	8.89	7.19	5.65	FX18-120S-0.8SH

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DF15 Series - SMT Connectors - 0.65mm Pitch - Board to Board

The product is prepared to prevent solder peeling, considering the mounting on FPC *(Note: The stacking height is determined by adding the header and receptacle to the figures followed by the product name DF15#. The stacking height doesn't include the soldering paste thickness.)*

Applications: • Mobile phones • LCD (Liquid Crystal Display) • MO (Optical Disk) • Note PC **Specifications:** • Current Rating: 0.3A • Voltage Rating: 50VAC • Operating Temperature: -35°C ~ 85°C • Operating Humidity: 40% ~ 80% • Insulation Resistance: 100VDC, 500MΩ min. • Withstanding Voltage: 1 minute at rated value, 150VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 50mΩ maximum **Material (receptacle/header):** • Insulator: Polyamide, beige, UL94V-0 • Contacts: Phosphor copper with gold plating • Metal Fittings: Brass with tin-lead plating

Fig. 1

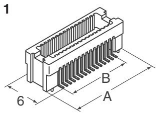

Fig. 2

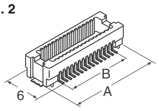

Fig. 3

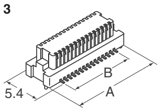

Fig.	Mtg. Hgt. (mm)	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			T & R ◊ Pricing	Hirose Part No.
			A	B		1	25	100	1,000	
Headers										
With Metal Fitting and With Boss										
1	4.2	20	9.85	5.85	H10453CT-ND	1.52	1.10	.90	532.00	DF15(4.2)-20DP-0.65V(56)
	4.2	30	13.1	9.1	H10454CT-ND	1.63	1.25	1.00	665.00	DF15(4.2)-30DP-0.65V(56)
	4.2	40	16.35	12.35	H10455CT-ND	1.92	1.48	1.18	785.00	DF15(4.2)-40DP-0.65V(56)
	4.2	50	19.6	15.6	H10456CT-ND	2.24	1.73	1.38	918.00	DF15(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10469CT-ND	1.52	1.10	.90	532.00	DF15(6.2)-20DP-0.65V(56)
	6.2	30	13.1	9.1	H10470CT-ND	1.86	1.35	1.11	652.00	DF15(6.2)-30DP-0.65V(56)
	6.2	40	16.35	12.35	H10471CT-ND	1.89	1.45	1.16	771.00	DF15(6.2)-40DP-0.65V(56)
	6.2	50	19.6	15.6	H10472CT-ND	2.21	1.70	1.36	904.00	DF15(6.2)-50DP-0.65V(56)
2	3.2	20	9.85	5.85	H10437CT-ND	1.56	1.13	.93	545.00	DF15(3.2)-20DP-0.65V(56)
	3.2	30	13.1	9.1	H10438CT-ND	1.63	1.25	1.00	665.00	DF15(3.2)-30DP-0.65V(56)
	3.2	40	16.35	12.35	H10439CT-ND	1.95	1.50	1.20	798.00	DF15(3.2)-40DP-0.65V(56)
	3.2	50	19.6	15.6	H10440CT-ND	2.28	1.75	1.40	931.00	DF15(3.2)-50DP-0.65V(56)
With Metal Fitting and Without Boss										
1	4.2	50	19.6	15.6	H10464CT-ND	2.24	1.73	1.38	918.00	DF15B(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10477CT-ND	1.52	1.10	.90	532.00	DF15B(6.2)-20DP-0.65V(56)
	6.2	30	13.1	9.1	H10478CT-ND	1.86	1.35	1.11	652.00	DF15B(6.2)-30DP-0.65V(56)
	6.2	40	16.35	12.35	H10479CT-ND	1.89	1.45	1.16	771.00	DF15B(6.2)-40DP-0.65V(56)
	6.2	50	19.6	15.6	H10480CT-ND	2.21	1.70	1.36	—	DF15B(6.2)-50DP-0.65V(56)
2	3.2	20	9.85	5.85	H10445CT-ND	1.56	1.13	.93	545.00	DF15B(3.2)-20DP-0.65V(56)
	3.2	40	16.35	12.35	H10447CT-ND	1.95	1.50	1.20	798.00	DF15B(3.2)-40DP-0.65V(56)
Without Metal Fitting and With Boss										
1	4.2	20	9.85	5.85	H10457CT-ND	1.48	1.08	.88	—	DF15A(4.2)-20DP-0.65V(56)
	4.2	30	13.1	9.1	H10458CT-ND	1.86	1.35	1.11	652.00	DF15A(4.2)-30DP-0.65V(56)
	4.2	50	19.6	15.6	H10460CT-ND	2.21	1.70	1.36	904.00	DF15A(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10473CT-ND	1.48	1.08	.88	519.00	DF15A(6.2)-20DP-0.65V(56)
	6.2	30	13.1	9.1	H10474CT-ND	1.82	1.32	1.08	638.00	DF15A(6.2)-30DP-0.65V(56)
	6.2	40	16.35	12.35	H10475CT-ND	1.85	1.43	1.14	758.00	DF15A(6.2)-40DP-0.65V(56)
	6.2	50	19.6	15.6	H10476CT-ND	2.18	1.68	1.34	891.00	DF15A(6.2)-50DP-0.65V(56)
2	3.2	20	9.85	5.85	H10441CT-ND	1.52	1.10	.90	532.00	DF15A(3.2)-20DP-0.65V(56)
	3.2	40	16.35	12.35	H10443CT-ND	1.92	1.48	1.18	785.00	DF15A(3.2)-40DP-0.65V(56)
	3.2	50	19.6	15.6	H10444CT-ND	2.24	1.73	1.38	918.00	DF15A(3.2)-50DP-0.65V(56)
Without Metal Fitting and Without Boss										
1	4.2	30	13.1	9.1	H10466CT-ND	1.86	1.35	1.11	652.00	DF15C(4.2)-30DP-0.65V(56)
	4.2	50	19.6	15.6	H10468CT-ND	2.21	1.70	1.36	904.00	DF15C(4.2)-50DP-0.65V(56)
2	3.2	20	9.85	5.85	H10449CT-ND	1.52	1.10	.90	532.00	DF15C(3.2)-20DP-0.65V(56)
Receptacles										
With Metal Fitting and With Boss										
3	0.8	20	9.85	5.85	H10421CT-ND	1.75	1.27	1.04	612.00	DF15(0.8)-20DS-0.65V(56)
	0.8	30	13.1	9.1	H10422CT-ND	1.98	1.53	1.22	811.00	DF15(0.8)-30DS-0.65V(56)
	0.8	40	16.35	12.35	H10423CT-ND	2.47	1.90	1.52	1011.00	DF15(0.8)-40DS-0.65V(56)
	0.8	50	19.6	15.6	H10424CT-ND	2.96	2.28	1.82	1210.00	DF15(0.8)-50DS-0.65V(56)
	1.8	20	9.85	5.85	H10429CT-ND	1.41	1.02	.84	492.00	DF15(1.8)-20DS-0.65V(56)
	1.8	30	13.1	9.1	H10430CT-ND	1.79	1.30	1.06	625.00	DF15(1.8)-30DS-0.65V(56)
	1.8	40	16.35	12.35	H10431CT-ND	1.89	1.45	1.16	771.00	DF15(1.8)-40DS-0.65V(56)
	1.8	50	19.6	15.6	H10432CT-ND	2.24	1.73	1.38	918.00	DF15(1.8)-50DS-0.65V(56)
With Metal Fitting and Without Boss										
3	0.8	20	9.85	5.85	H10425CT-ND	1.75	1.27	1.04	612.00	DF15B(0.8)-20DS-0.65V(56)
	0.8	40	16.35	12.35	H10427CT-ND	2.47	1.90	1.52	—	DF15B(0.8)-40DS-0.65V(56)
	0.8	50	19.6	15.6	H10428CT-ND	2.96	2.28	1.82	1210.00	DF15B(0.8)-50DS-0.65V(56)
	1.8	20	9.85	5.85	H10433CT-ND	1.41	1.02	.84	492.00	DF15B(1.8)-20DS-0.65V(56)
	1.8	30	13.1	9.1	H10434CT-ND	1.79	1.30	1.06	625.00	DF15B(1.8)-30DS-0.65V(56)
	1.8	40	16.35	12.35	H10435CT-ND	1.89	1.45	1.16	771.00	DF15B(1.8)-40DS-0.65V(56)
	1.8	50	19.6	15.6	H10436CT-ND	2.24	1.73	1.38	918.00	DF15B(1.8)-50DS-0.65V(56)
Without Metal Fitting and With Boss										
3	1.8	20	9.85	5.85	H1712-ND‡	1.75	1.27	1.04	—	DF15A(1.8)-20DS-0.65V(50)
	1.8	20	9.85	5.85	H1712CT-ND✔	1.79	1.30	1.06	625.10	DF15A(1.8)-20DS-0.65V(51)
Without Metal Fitting and Without Boss										
3	0.8	20	9.85	5.85	H1724-ND‡	1.75	1.27	1.04	—	DF15C(0.8)-20DS-0.65V(50)
	0.8	30	13.1	9.1	H1725-ND‡	1.92	1.48	1.18	—	DF15C(0.8)-30DS-0.65V(50)

✔ ***NEW!*** ◊ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Tube

FX6 Series - Surface Mount Vertical Connectors - 0.8mm Pitch

Features: Stacking height can be set from 5 ~ 9mm in 1mm steps. Though these are low profile type connectors, the effective length of engagement is long at 1.7mm, which affords a fit with leeway.

Applications: Notebook computers, personal terminals and other office automation equipment. Equipment that calls for miniaturization and lighter weight.

Material: • Insulator: PPS resin, light brown, UL94V-0 • Header/Receptacle pins: Phosphor bronze • Contacts: Gold plating • Leads: Tin plating

Electrical: • Current Capacity: 0.5A • Rated Voltage: 100VAC • Insulation Resistance: 250VDC, 100MΩ or more • Withstand voltage for 1 minute at specified value 300VAC • Contact Resistance: 100mA DC 40mΩ or less

Fig. 1

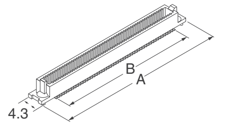

Fig. 2

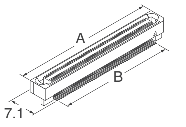

Height (mm)	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	B		1	25	100	
Fig. 1 — Headers								
With Positioning Boss — RoHS Compliant								
4	20	15.8	7.2	H10784-ND	2.60	2.00	1.60	FX6-20P-0.8SV(71)
4	40	23.8	15.2	H10785-ND	3.42	2.66	2.13	FX6-40P-0.8SV(71)
4	50	27.8	19.2	H10786-ND	4.00	3.11	2.49	FX6-50P-0.8SV(71)
4	60	31.8	23.2	H10787-ND	4.55	3.54	2.83	FX6-60P-0.8SV(71)
4	80	39.8	31.2	H10788-ND	5.60	4.35	3.48	FX6-80P-0.8SV(71)
4	100	47.8	39.2	H10789-ND	6.67	5.18	4.14	FX6-100P-0.8SV(71)
6	60	31.8	23.2	H10790-ND	4.73	3.67	2.94	FX6-60P-0.8SV1(71)
6	100	47.8	39.2	H10791-ND	6.55	5.09	4.07	FX6-100P-0.8SV2(71)
Without Positioning Boss								
5	20	15.8	7.2	H2444-ND	2.73	2.10	1.68	FX6A-20P-0.8SV1
Without Positioning Boss — RoHS Compliant								
4	20	15.8	7.2	H10792-ND	2.60	2.00	1.60	FX6A-20P-0.8SV(71)
4	40	23.8	15.2	H10793-ND	3.42	2.66	2.13	FX6A-40P-0.8SV(71)
4	50	27.8	19.2	H10794-ND	4.00	3.11	2.49	FX6A-50P-0.8SV(71)
4	60	31.8	23.2	H10795-ND	4.55	3.54	2.83	FX6A-60P-0.8SV(71)
4	80	39.8	31.2	H10796-ND	5.60	4.35	3.48	FX6A-80P-0.8SV(71)
4	100	47.8	39.2	H10797-ND	6.73	5.22	4.18	FX6A-100P-0.8SV(71)
5	20	15.8	7.2	H10798-ND	3.15	2.43	1.94	FX6A-20P-0.8SV1(71)
5	40	23.8	15.2	H10799-ND	3.80	2.95	2.36	FX6A-40P-0.8SV1(71)
5	60	31.8	23.2	H10800-ND	4.73	3.67	2.94	FX6A-60P-0.8SV1(71)
6	50	27.8	19.2	H10801-ND	4.26	3.31	2.65	FX6A-50P-0.8SV2(71)
6	60	31.8	23.2	H10802-ND	4.73	3.67	2.94	FX6A-60P-0.8SV2(71)

Height (mm)	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	B		1	25	100	
Fig. 2 — Receptacles								
With Positioning Boss — RoHS Compliant								
4	20	15.8	7.2	H10803-ND	2.54	1.95	1.56	FX6-20S-0.8SV(71)
4	40	23.8	15.2	H10804-ND	3.28	2.55	2.04	FX6-40S-0.8SV(71)
4	50	27.8	19.2	H10805-ND	3.74	2.91	2.33	FX6-50S-0.8SV(71)
4	60	31.8	23.2	H10806-ND	4.23	3.29	2.63	FX6-60S-0.8SV(71)
4	80	39.8	31.2	H10807-ND	5.25	4.08	3.26	FX6-80S-0.8SV(71)
4	100	47.8	39.2	H10808-ND	6.18	4.80	3.84	FX6-100S-0.8SV(71)
6	20	15.8	7.2	H10809-ND	3.54	2.75	2.20	FX6-20S-0.8SV2(71)
6	40	23.8	15.2	H10810-ND	4.52	3.51	2.81	FX6-40S-0.8SV2(71)
6	50	27.8	19.2	H10811-ND	5.08	3.94	3.15	FX6-50S-0.8SV2(71)
6	60	31.8	23.2	H10812-ND	5.63	4.37	3.50	FX6-60S-0.8SV2(71)
6	80	39.8	31.2	H10813-ND	6.64	5.16	4.13	FX6-80S-0.8SV2(71)
6	100	47.8	39.2	H10814-ND	6.92	5.59	4.39	FX6-100S-0.8SV2(71)
Without Positioning Boss								
4	60	31.8	23.2	H2459-ND	3.65	2.84	2.27	FX6A-60S-0.8SV
Without Positioning Boss — RoHS Compliant								
4	20	15.8	7.2	H10815-ND	2.54	1.95	1.56	FX6A-20S-0.8SV(71)
4	40	23.8	15.2	H10816-ND	3.28	2.55	2.04	FX6A-40S-0.8SV(71)
4	50	27.8	19.2	H10817-ND	3.74	2.91	2.33	FX6A-50S-0.8SV(71)
4	60	31.8	23.2	H10818-ND	4.23	3.29	2.63	FX6A-60S-0.8SV(71)
4	80	39.8	31.2	H10819-ND	5.25	4.08	3.26	FX6A-80S-0.8SV(71)
4	100	47.8	39.2	H10820-ND	6.18	4.80	3.84	FX6A-100S-0.8SV(71)
6	40	23.8	15.2	H10821-ND	4.55	3.54	2.83	FX6A-40S-0.8SV2(71)
6	50	27.8	19.2	H10822-ND	5.08	3.94	3.15	FX6A-50S-0.8SV2(71)
6	60	31.8	23.2	H10823-ND	5.63	4.37	3.50	FX6A-60S-0.8SV2(71)
6	80	39.8	31.2	H10824-ND	6.64	5.16	4.13	FX6A-80S-0.8SV2(71)
6	100	47.8	39.2	H10825-ND	6.92	5.59	4.39	FX6A-100S-0.8SV2(71)

HIROSE ELECTRIC CO., LTD.

DF9 Series - Surface Mount Connectors

1mm Pitch, Center Line Board-to-Board (With Reinforced Hardware)

Features:

• 4.3mm mated height between PCBs • Insulator is manufactured from polyimide to withstand the high temperatures resulting from VPS, IR, and heat blow soldering • PCB contact is a "Gull-Wing" type design to ensure reliable performance • Designed to control and accept dimensional changes by thermo-elasticity • Reinforcement hardware is provided to eliminate mechanical stress to solder joints during mating and unmating cycles

Electrical:

• Rated Current: 0.5A • Rated Voltage: 150VAC • Insulation Resistance: Condition: 100VDC, Standard Value: Minimum 500MΩ • Withstanding Voltage: No flashover or insulation breakdown; Condition: 250V AC/1 minute • Contact Resistance: 50mΩ max. @ 100mA • Operating Temperature Range: -45°C ~ 125°C

Material and Finish:

• Receptacle Header Insulator: Polyimide resin, beige (natural), UL94V-0 • Receptacle and Header Contacts: Phosphor copper, tin, or gold plating • Receptacle and Header Fitting: Brass, tin plating.

Fig. 1

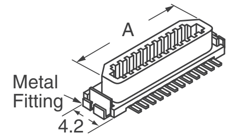

Fig. 2

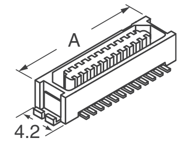

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.†
Receptacles									
Receptacles with Metal Fitting and Guideposts									
1	9	8.30	H10397CT-ND◆	1.22	22.00	72.00	H10397TR-ND◆	426.00	DF9-9S-1V(32)
	11	9.30	H10398CT-ND◆	1.29	23.38	76.50	H10398TR-ND◆	452.00	DF9-11S-1V(32)
	13	10.30	H10399CT-ND◆	1.41	25.44	83.25	H10399TR-ND◆	492.00	DF9-13S-1V(32)
	15	11.30	H10400CT-ND◆	1.56	28.19	92.25	H10400TR-ND◆	545.00	DF9-15S-1V(32)
	17	12.30	H2156-ND‡	1.56	28.19	92.25	—	—	DF9-17S-1V(20)
	17	12.30	H10401CT-ND◆	1.67	30.25	99.00	H10401TR-ND◆	585.00	DF9-17S-1V(32)
	19	13.30	H10402CT-ND◆	1.71	30.94	101.25	H10402TR-ND◆	599.00	DF9-19S-1V(32)
	21	14.30	H10403CT-ND◆	1.79	32.31	105.75	H10403TR-ND◆	625.00	DF9-21S-1V(32)
	23	15.30	H10404CT-ND◆	1.76	33.75	108.00	H10404TR-ND◆	718.00	DF9-23S-1V(32)
	25	16.30	H10405CT-ND◆	1.72	33.13	106.00	H10405TR-ND◆	705.00	DF9-25S-1V(32)
	31	19.30	H10406CT-ND◆	1.98	38.13	122.00	H10406TR-ND◆	811.00	DF9-31S-1V(32)
	41	24.30	H10407CT-ND◆	2.34	45.00	144.00	H10407TR-ND◆	958.00	DF9-41S-1V(32)
	51	29.30	H10408CT-ND◆	3.16	61.31	196.20	H10408TR-ND◆	1417.00	DF9-51S-1V(69)
Receptacles without Metal Fitting and with Guideposts — RoHS Compliant									
1	9	8.30	H10369CT-ND	1.14	20.63	67.50	H10369TR-ND	399.00	DF9A-9S-1V(22)
	11	9.30	H10370CT-ND	1.22	22.00	72.00	H10370TR-ND	426.00	DF9A-11S-1V(22)
	13	10.30	H10371CT-ND	1.33	24.06	78.75	H10371TR-ND	466.00	DF9A-13S-1V(22)
	15	11.30	H10372CT-ND	1.48	26.81	87.75	H10372TR-ND	519.00	DF9A-15S-1V(22)
	17	12.30	H10373CT-ND	1.61	29.08	95.18	H10373TR-ND	563.00	DF9A-17S-1V(22)
	19	13.30	H10374CT-ND	1.67	30.25	99.00	H10374TR-ND	585.00	DF9A-19S-1V(22)
	21	14.30	H10375CT-ND	1.75	31.63	103.50	H10375TR-ND	612.00	DF9A-21S-1V(22)
	23	15.30	H10376CT-ND	1.72	33.13	106.00	H10376TR-ND	705.00	DF9A-23S-1V(22)
	25	16.30	H10377CT-ND	1.66	31.88	102.00	H10377TR-ND	678.00	DF9A-25S-1V(22)
	31	19.30	H10378CT-ND	1.92	36.88	118.00	H10378TR-ND	785.00	DF9A-31S-1V(22)
	41	24.30	H10379CT-ND	2.41	46.25	148.00	H10379TR-ND	984.00	DF9A-41S-1V(22)
	51	29.30	H10380CT-ND	3.16	61.31	196.20	H10380TR-ND	1417.00	DF9A-51S-1V(69)
Receptacles with Metal Fitting and without Guideposts									
1	11	9.30	H10388CT-ND◆	1.29	23.38	76.50	H10388TR-ND◆	452.00	DF9B-11S-1V(32)
	13	10.30	H10389CT-ND◆	1.52	27.50	90.00	H10389TR-ND◆	532.00	DF9B-13S-1V(32)
	15	11.30	H10390CT-ND◆	1.56	28.19	92.25	H10390TR-ND◆	545.00	DF9B-15S-1V(32)
	21	14.30	H10391CT-ND◆	1.79	32.31	105.75	H10391TR-ND◆	625.00	DF9B-21S-1V(32)
	23	15.30	H10392CT-ND◆	1.86	33.69	110.25	H10392TR-ND◆	652.00	DF9B-23S-1V(32)
	25	16.30	H1661-ND‡	1.86	33.69	110.25	—	—	DF9B-25S-1V(20)
	25	16.30	H10393CT-ND◆	1.72	33.13	106.00	H10393TR-ND◆	705.00	DF9B-25S-1V(32)
	31	19.30	H10394CT-ND◆	1.98	38.13	122.00	H10394TR-ND◆	811.00	DF9B-31S-1V(32)
	41	24.30	H10395CT-ND◆	2.34	45.00	144.00	H10395TR-ND◆	958.00	DF9B-41S-1V(32)
	51	29.30	H10396CT-ND◆	3.13	60.75	194.40	H10396TR-ND◆	1404.00	DF9B-51S-1V(69)

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.†
Headers									
Headers with Metal Fitting and Guideposts									
2	9	8.30	H10409CT-ND◆	1.22	22.00	72.00	H10409TR-ND◆	426.00	DF9-9P-1V(32)
	11	9.30	H10410CT-ND◆	1.29	23.38	76.50	H10410TR-ND◆	452.00	DF9-11P-1V(32)
	13	10.30	H2166-ND‡	1.25	22.69	74.25	—	—	DF9-13P-1V(20)
	13	10.30	H10411CT-ND◆	1.37	24.75	81.00	H10411TR-ND◆	479.00	DF9-13P-1V(32)
	15	11.30	H10412CT-ND◆	1.56	28.19	92.25	H10412TR-ND◆	545.00	DF9-15P-1V(32)
	17	12.30	H10413CT-ND◆	1.67	30.25	99.00	H10413TR-ND◆	585.00	DF9-17P-1V(32)
	19	13.30	H10414CT-ND◆	1.71	30.94	101.25	H10414TR-ND◆	599.00	DF9-19P-1V(32)
	21	14.30	H10415CT-ND◆	1.79	32.31	105.75	H10415TR-ND◆	625.00	DF9-21P-1V(32)
	23	15.30	H10416CT-ND◆	1.79	32.31	105.75	H10416TR-ND◆	625.00	DF9-23P-1V(32)
	25	16.30	H10417CT-ND◆	1.69	32.50	104.00	H10417TR-ND◆	692.00	DF9-25P-1V(32)
	31	19.30	H10418CT-ND◆	1.95	37.50	120.00	H10418TR-ND◆	798.00	DF9-31P-1V(32)
	41	24.30	H10419CT-ND◆	2.31	44.38	142.00	H10419TR-ND◆	944.00	DF9-41P-1V(32)
	51	29.30	H10420CT-ND◆	3.39	65.81	210.60	H10420TR-ND◆	1521.00	DF9-51P-1V(69)
Headers without Metal Fitting and with Guideposts — RoHS Compliant									
2	9	8.30	H10357CT-ND	1.14	20.63	67.50	H10357TR-ND	399.00	DF9A-9P-1V(22)
	11	9.30	H10358CT-ND	1.22	22.00	72.00	H10358TR-ND	426.00	DF9A-11P-1V(22)
	13	10.30	H10359CT-ND	1.33	24.06	78.75	H10359TR-ND	466.00	DF9A-13P-1V(22)
	15	11.30	H10360CT-ND	1.48	26.81	87.75	H10360TR-ND	519.00	DF9A-15P-1V(22)
	17	12.30	H10361CT-ND	1.60	28.88	94.50	H10361TR-ND	559.00	DF9A-17P-1V(22)
	19	13.30	H10362CT-ND	1.67	30.25	99.00	H10362TR-ND	585.00	DF9A-19P-1V(22)
	21	14.30	H10363CT-ND	1.75	31.63	103.50	H10363TR-ND	612.00	DF9A-21P-1V(22)
	23	15.30	H10364CT-ND	2.05	37.13	121.50	H10364TR-ND	718.00	DF9A-23P-1V(22)
	25	16.30	H10365CT-ND	1.90	34.38	112.50	H10365TR-ND	665.00	DF9A-25P-1V(22)
	31	19.30	H10366CT-ND	1.89	36.25	116.00	H10366TR-ND	771.00	DF9A-31P-1V(22)
	41	24.30	H10367CT-ND	2.37	45.63	146.00	H10367TR-ND	971.00	DF9A-41P-1V(22)
	51	29.30	H10368CT-ND	3.51	68.06	217.80	H10368TR-ND	1573.00	DF9A-51P-1V(69)
Headers with Metal Fitting and without Guideposts — RoHS Compliant									
2	11	9.30	H10381CT-ND	1.29	23.38	76.50	H10381TR-ND	452.00	DF9B-11P-1V(32)
	13	10.30	H10382CT-ND	1.52	27.50	90.00	H10382TR-ND	532.00	DF9B-13P-1V(32)
	15	11.30	H10383CT-ND	1.56	28.19	92.25	H10383TR-ND	545.00	DF9B-15P-1V(32)
	21	14.30	H10384CT-ND	1.69	32.50	104.00	H10384TR-ND	692.00	DF9B-21P-1V(32)
	25	16.30	H10385CT-ND	1.86	33.69	110.25	H10385TR-ND	652.00	DF9B-25P-1V(32)
	31	19.30	H10386CT-ND	1.95	37.50	120.00	H10386TR-ND	798.00	DF9B-31P-1V(32)
	41	24.30	H10387CT-ND	2.31	44.38	142.00	H10387TR-ND	944.00	DF9B-41P-1V(32)

◆ *RoHS Compliant* † (20), (22) and (32) indicates tin plating; (54) and (69) indicates gold plating. ‡ Tube

CORPORATION

DF9 Flex Assemblies

(Standard Interface Connector Complying with VESA FPDI-1)

Features: These comply with the Standard Connector Specifications selected by the U.S. Video Electronics Standards Association as a Flat Panel Display Interface.

Applications: • Liquid Crystal Displays • Portable Terminals and Personal Computers

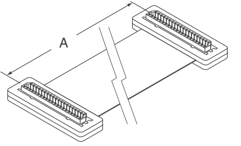

No. of Positions	Height (mm)	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Parlex Part No.
31	5.08	51	PS563AB0051S-ND	45.00	30.00	18.75	PS563-AB-0051-S
	5.08	102	PS563AB0102S-ND	45.00	30.00	18.75	PS563-AB-0102-S
	5.08	152	PS563AB0152S-ND	45.00	30.00	18.75	PS563-AB-0152-S
	5.08	203	PS563AB0203S-ND	45.00	30.00	18.75	PS563-AB-0203-S
	5.08	254	PS563AB0254S-ND	45.00	30.00	18.75	PS563-AB-0254-S
	5.08	305	PS563AB0305S-ND	45.00	30.00	18.75	PS563-AB-0305-S
41	5.08	51	PS564AB0051S-ND	45.00	30.00	18.75	PS564-AB-0051-S
	5.08	102	PS564AB0102S-ND	45.00	30.00	18.75	PS564-AB-0102-S
	5.08	152	PS564AB0152S-ND	45.00	30.00	18.75	PS564-AB-0152-S
	5.08	203	PS564AB0203S-ND	45.00	30.00	18.75	PS564-AB-0203-S
	5.08	254	PS564AB0254S-ND	45.00	30.00	18.75	PS564-AB-0254-S
	5.08	305	PS564AB0305S-ND	45.00	30.00	18.75	PS564-AB-0305-S

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

FX2 Series - Connectors 1.27mm Pitch

FX2 and FX2M6 Series:
• For use in board-to-board application • High performance PPS resin insulator is compatible to VPS, IR and hot air reflow • Gull wing-shaped lead is used for ease of checking soldered connection • Use of positioning boss for substrate packaging offers improved handling capability • Solder-fixing reinforcement bracket, which disperses inserting/extracting stress, is available for optional specification.
Electrical: • Rated Current: 0.5A • Rated Voltage: 125VAC • Insulation Resistance: More than 1000MΩ at 250VDC • Withstanding Voltage: 300VAC • Contact Resistance: Less than 45mΩ at 100mA DC • Durability: 500 times mating cycles.
Insulator Material and Finish: • Dip Type: Black polyimide resin, UL94V-0 • SMT Type: Light Brown PPS resin, UL94V-0 • Socket: Black PBT resin and polyimide resin, UL94V-0.
Contact Material and Finish: • Receptacle and Socket: Phosphor bronze with selective gold plating • Header: Phosphor bronze or brass with selective gold plating.

Fig. 1

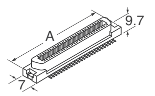

Fig. 2

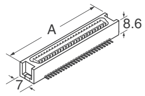

Fig. 3

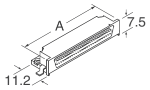

Fig. 4

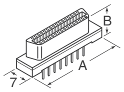

Fig. 5

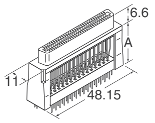

Fig. 6

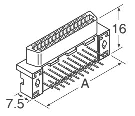

Fig. 7

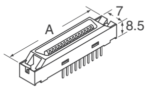

Fig. 8

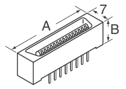

Fig. 9

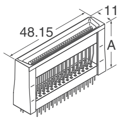

Fig. 10

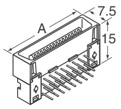

Fig. 11

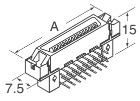

Fig. 12

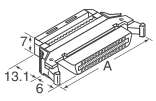

Fig. 13

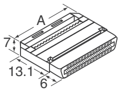

Fig.	No. of Pins	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Straight Type Receptacle (SMT) - RoHS Compliant								
1	20	22.75	—	H10529-ND	4.15	80.44	257.40	FX2-20S-1.27SV(71)
	32	30.37	—	H10530-ND	4.84	93.94	300.60	FX2-32S-1.27SV(71)
	40	35.45	—	H10531-ND	5.31	102.94	329.40	FX2-40S-1.27SV(71)
	52	43.07	—	H10532-ND	5.97	115.88	370.80	FX2-52S-1.27SV(71)
	60	48.15	—	H10533-ND	6.44	124.88	399.60	FX2-60S-1.27SV(71)
	68	53.23	—	H10534-ND	6.90	133.88	428.40	FX2-68S-1.27SV(71)
	80	60.85	—	H10535-ND	6.60	133.35	419.10	FX2-80S-1.27SV(71)
	100	73.55	—	H10536-ND	7.44	150.15	471.90	FX2-100S-1.27SV(71)
	120	86.25	—	H10537-ND	8.45	170.63	536.25	FX2-120S-1.27SV(71)
Straight Header (SMT) - RoHS Compliant								
2	20	22.75	—	H10520-ND	4.15	80.44	257.40	FX2-20P-1.27SV(71)
	32	30.37	—	H10521-ND	4.84	93.94	300.60	FX2-32P-1.27SV(71)
	40	35.45	—	H10522-ND	5.31	102.94	329.40	FX2-40P-1.27SV(71)
	52	43.07	—	H10523-ND	5.97	115.88	370.80	FX2-52P-1.27SV(71)
	60	48.15	—	H10524-ND	6.44	124.88	399.60	FX2-60P-1.27SV(71)
	68	53.23	—	H10525-ND	6.90	133.88	428.40	FX2-68P-1.27SV(71)
	80	60.85	—	H10526-ND	6.81	137.55	432.30	FX2-80P-1.27SV(71)
	100	73.55	—	H10527-ND	7.64	154.35	485.10	FX2-100P-1.27SV(71)
	120	86.25	—	H10528-ND	8.66	174.83	549.45	FX2-120P-1.27SV(71)
Right Angle Header (SMT) - RoHS Compliant								
3	20	22.75	—	H10646-ND	2.76	53.13	170.00	FX2-20P-0.635SH(71)
	40	35.45	—	H10647-ND	3.42	66.38	212.40	FX2-40P-0.635SH(71)
	52	43.07	—	H10648-ND	3.94	76.50	244.80	FX2-52P-0.635SH(71)
	60	48.15	—	H10649-ND	4.35	84.38	270.00	FX2-60P-0.635SH(71)
	80	60.85	—	H10650-ND	5.19	100.69	322.20	FX2-80P-0.635SH(71)
	100	73.55	—	H10651-ND	10.28	212.33	715.20	FX2-100P-0.635SH(71)
Straight Receptacle No Cleaning Type - RoHS Compliant								
4	20	22.75	9.5	H10592-ND	3.31	64.13	205.20	FX2C-20S-1.27DSA(71)
	32	30.37	9.5	H10593-ND	3.86	74.81	239.40	FX2C-32S-1.27DSA(71)
	40	35.45	9.5	H10594-ND	4.26	82.69	264.60	FX2C-40S-1.27DSA(71)
	52	43.07	9.5	H10595-ND	5.02	97.31	311.40	FX2C-52S-1.27DSA(71)
	60	48.15	9.5	H10596-ND	5.51	106.88	342.00	FX2C-60S-1.27DSA(71)
	68	53.23	9.5	H10597-ND	5.86	113.63	363.60	FX2C-68S-1.27DSA(71)
	80	60.85	9.5	H10598-ND	6.84	132.75	424.80	FX2C-80S-1.27DSA(71)
	100	73.55	9.5	H10599-ND	7.05	142.28	447.15	FX2C-100S-1.27DSA(71)
	120	86.25	9.5	H10600-ND	7.83	158.03	496.65	FX2C-120S-1.27DSA(71)
4	20	22.75	11.5	H10601-ND	4.03	78.19	250.20	FX2C2-20S-1.27DSA(71)
	32	30.37	11.5	H10602-ND	4.52	87.75	280.80	FX2C2-32S-1.27DSA(71)
	40	35.45	11.5	H10603-ND	4.99	96.75	309.60	FX2C2-40S-1.27DSA(71)
	52	43.07	11.5	H10604-ND	5.68	110.25	352.80	FX2C2-52S-1.27DSA(71)
	60	48.15	11.5	H10605-ND	22.05	514.50	1911.00	FX2C2-60S-1.27DSA(71)
	68	53.23	11.5	H10606-ND	6.50	126.00	403.20	FX2C2-68S-1.27DSA(71)
	80	60.85	11.5	H10607-ND	6.73	135.98	427.35	FX2C2-80S-1.27DSA(71)
	100	73.55	11.5	H10608-ND	7.62	153.83	483.45	FX2C2-100S-1.27DSA(71)
	120	86.25	11.5	H10609-ND	8.37	169.05	531.30	FX2C2-120S-1.27DSA(71)
Straight Receptacle Cleaning Type - RoHS Compliant								
4	20	22.75	9.5	H10610-ND	3.31	64.13	205.20	FX2CA-20S-1.27DSA(71)
	32	30.37	9.5	H10611-ND	3.86	74.81	239.40	FX2CA-32S-1.27DSA(71)
	40	35.45	9.5	H10612-ND	4.26	82.69	264.60	FX2CA-40S-1.27DSA(71)
	52	43.07	9.5	H10613-ND	5.02	97.31	311.40	FX2CA-52S-1.27DSA(71)
	60	48.15	9.5	H10614-ND	5.51	106.88	342.00	FX2CA-60S-1.27DSA(71)
	68	53.23	9.5	H10615-ND	5.86	113.63	363.60	FX2CA-68S-1.27DSA(71)
	80	60.85	9.5	H10616-ND	6.84	132.75	424.80	FX2CA-80S-1.27DSA(71)
	100	73.55	9.5	H10617-ND	7.05	142.28	447.15	FX2CA-100S-1.27DSA(71)
	120	86.25	9.5	H10618-ND	7.83	158.03	496.65	FX2CA-120S-1.27DSA(71)
	20	22.75	11.5	H10619-ND	4.03	78.19	250.20	FX2CA2-20S-1.27DSA(71)
	32	30.37	11.5	H10620-ND	4.52	87.75	280.80	FX2CA2-32S-1.27DSA(71)
	40	35.45	11.5	H10621-ND	4.99	96.75	309.60	FX2CA2-40S-1.27DSA(71)
	52	43.07	11.5	H10622-ND	5.68	110.25	352.80	FX2CA2-52S-1.27DSA(71)
	60	48.15	11.5	H10623-ND	6.12	118.69	379.80	FX2CA2-60S-1.27DSA(71)
	68	53.23	11.5	H10624-ND	6.50	126.00	403.20	FX2CA2-68S-1.27DSA(71)
	80	60.85	11.5	H10625-ND	6.73	135.98	427.35	FX2CA2-80S-1.27DSA(71)
	100	73.55	11.5	H10626-ND	7.62	153.83	483.45	FX2CA2-100S-1.27DSA(71)
	120	86.25	11.5	H10627-ND	8.37	169.05	531.30	FX2CA2-120S-1.27DSA(71)
Straight Receptacle - RoHS Compliant								
5	60	35.1	—	H10517-ND	7.93	160.13	503.25	FX2M6A-60S-1.27DSAL(71)
	60	19.1	—	H10519-ND	7.93	160.13	503.25	FX2M6B-60S-1.27DSAL(71)
Right Angle Receptacle - RoHS Compliant								
6	20	22.75	—	H10637-ND	3.36	65.25	208.80	FX2-20S-1.27DS(71)
	32	30.37	—	H10638-ND	4.03	78.19	250.20	FX2-32S-1.27DS(71)
	40	35.45	—	H10639-ND	4.44	86.06	275.40	FX2-40S-1.27DS(71)
	52	43.07	—	H10640-ND	5.28	102.38	327.60	FX2-52S-1.27DS(71)
	60	48.15	—	H10641-ND	5.77	111.94	358.20	FX2-60S-1.27DS(71)

(Continued)

Fig.	No. of Pins	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
6	68	53.23	—	H10642-ND	6.12	118.69	379.80	FX2-68S-1.27DS(71)
	80	60.85	—	H10643-ND	7.22	140.06	448.20	FX2-80S-1.27DS(71)
	100	73.55	—	H10644-ND	7.51	151.73	476.85	FX2-100S-1.27DS(71)
	120	86.25	—	H10645-ND	8.74	176.40	554.40	FX2-120S-1.27DS(71)
Straight Header No Cleaning Lock Type - RoHS Compliant								
7	20	30.33	—	H10500-ND	3.65	70.88	226.80	FX2B-20P-1.27DSA(71)
	32	37.95	—	H10501-ND	4.26	82.69	264.60	FX2B-32P-1.27DSA(71)
	40	43.03	—	H10502-ND	4.76	92.25	295.20	FX2B-40PA-1.27DSA(71)
	52	50.65	—	H10503-ND	5.08	98.44	315.00	FX2B-52PA-1.27DSA(71)
	60	55.73	—	H10504-ND	5.31	102.94	329.40	FX2B-60PA-1.27DSA(71)
	68	60.81	—	H10505-ND	5.66	109.69	351.00	FX2B-68PA-1.27DSA(71)
	80	68.43	—	H10506-ND	5.97	115.88	370.80	FX2B-80PA-1.27DSA(71)
	100	81.13	—	H10507-ND	6.53	126.56	405.00	FX2B-100PA-1.27DSA(71)
Straight Header Cleaning Lock Type - RoHS Compliant								
7	20	30.33	—	H10508-ND	3.65	70.88	226.80	FX2BA-20P-1.27DSA(71)
	32	37.95	—	H10509-ND	4.26	82.69	264.60	FX2BA-32P-1.27DSA(71)
	40	43.03	—	H10510-ND	4.76	92.25	295.20	FX2BA-40PA-1.27DSA(71)
	52	50.65	—	H10511-ND	5.08	98.44	315.00	FX2BA-52PA-1.27DSA(71)
	60	55.73	—	H10512-ND	5.31	102.94	329.40	FX2BA-60PA-1.27DSA(71)
	68	60.81	—	H10513-ND	5.68	110.25	352.80	FX2BA-68PA-1.27DSA(71)
	80	68.43	—	H10514-ND	5.97	115.88	370.80	FX2BA-80PA-1.27DSA(71)
	100	81.13	—	H10515-ND	6.53	126.56	405.00	FX2BA-100PA-1.27DSA(71)
Straight Header No Cleaning Type								
8	80	60.85	10.5	H4394-ND	6.96	135.00	432.00	FX2C2-80P-1.27DSA
RoHS Compliant								
8	20	22.75	8.5	H10538-ND	3.22	62.44	199.80	FX2C-20P-1.27DSA(71)
	32	30.37	8.5	H10539-ND	3.71	72.00	230.40	FX2C-32P-1.27DSA(71)
	40	35.45	8.5	H10540-ND	4.12	79.88	255.60	FX2C-40P-1.27DSA(71)
	52	43.07	8.5	H10541-ND	5.05	97.88	313.20	FX2C-52P-1.27DSA(71)
	60	48.15	8.5	H10542-ND	5.31	102.94	329.40	FX2C-60P-1.27DSA(71)
	68	53.23	8.5	H10543-ND	5.63	109.13	349.20	FX2C-68P-1.27DSA(71)
	80	60.85	8.5	H10544-ND	6.58	127.69	408.60	FX2C-80P-1.27DSA(71)
	100	73.55	8.5	H10545-ND	6.73	135.98	427.35	FX2C-100P-1.27DSA(71)
	120	86.25	8.5	H10546-ND	7.44	150.15	471.90	FX2C-120P-1.27DSA(71)
	60	48.15	9.5	H10551-ND	5.97	115.88	370.80	FX2C1-60P-1.27DSA(71)
	100	73.55	9.5	H10554-ND	7.33	148.05	465.30	FX2C1-100P-1.27DSA(71)
	120	86.25	9.5	H10555-ND	7.98	161.18	506.55	FX2C1-120P-1.27DSA(71)
	20	22.75	10.5	H10556-ND	3.86	74.81	239.40	FX2C2-20P-1.27DSA(71)
	40	35.45	10.5	H10558-ND	4.76	92.25	295.20	FX2C2-40P-1.27DSA(71)
	52	43.07	10.5	H10559-ND	5.51	106.88	342.00	FX2C2-52P-1.27DSA(71)
	68	53.23	10.5	H10561-ND	6.35	123.19	394.20	FX2C2-68P-1.27DSA(71)
	80	60.85	10.5	H10562-ND	7.22	140.06	448.20	FX2C2-80P-1.27DSA(71)
	100	73.55	10.5	H10563-ND	7.33	148.05	465.30	FX2C2-100P-1.27DSA(71)
	120	86.25	10.5	H10564-ND	8.03	162.23	509.85	FX2C2-120P-1.27DSA(71)
Straight Header Cleaning Type								
8	32	30.37	10.5	H4433-ND	4.18	81.00	259.20	FX2CA2-32P-1.27DSA
RoHS Compliant								
8	20	22.75	8.5	H10565-ND	3.22	62.44	199.80	FX2CA-20P-1.27DSA(71)
	32	30.37	8.5	H10566-ND	3.71	72.00	230.40	FX2CA-32P-1.27DSA(71)
	40	35.45	8.5	H10567-ND	4.12	79.88	255.60	FX2CA-40P-1.27DSA(71)
	52	43.07	8.5	H10568-ND	4.81	93.38	298.80	FX2CA-52P-1.27DSA(71)
	60	48.15	8.5	H10569-ND	5.31	102.94	329.40	FX2CA-60P-1.27DSA(71)
	80	60.85	8.5	H10571-ND	6.58	127.69	408.60	FX2CA-80P-1.27DSA(71)
	100	73.55	8.5	H10572-ND	6.73	135.98	427.35	FX2CA-100P-1.27DSA(71)
	120	86.25	8.5	H10573-ND	7.44	150.15	471.90	FX2CA-120P-1.27DSA(71)
	20	22.75	9.5	H10574-ND	3.86	74.81	239.40	FX2CA1-20P-1.27DSA(71)
8	40	35.45	9.5	H10576-ND	4.76	92.25	295.20	FX2CA1-40P-1.27DSA(71)
	52	43.07	9.5	H10577-ND	5.51	106.88	342.00	FX2CA1-52P-1.27DSA(71)
	100	73.55	9.5	H10581-ND	7.33	148.05	465.30	FX2CA1-100P-1.27DSA(71)
	20	22.75	10.5	H10583-ND	3.86	74.81	239.40	FX2CA2-20P-1.27DSA(71)
	32	30.37	10.5	H10584-ND	4.35	84.38	270.00	FX2CA2-32P-1.27DSA(71)
	40	35.45	10.5	H10585-ND	4.76	92.25	295.20	FX2CA2-40P-1.27DSA(71)
	52	43.07	10.5	H10586-ND	5.51	106.88	342.00	FX2CA2-52P-1.27DSA(71)
	60	48.15	10.5	H10587-ND	5.97	115.88	370.80	FX2CA2-60P-1.27DSA(71)
	68	53.23	10.5	H10588-ND	6.35	123.19	394.20	FX2CA2-68P-1.27DSA(71)
	80	60.85	10.5	H10589-ND	7.22	140.06	448.20	FX2CA2-80P-1.27DSA(71)
	100	73.55	10.5	H10590-ND	7.33	148.05	465.30	FX2CA2-100P-1.27DSA(71)
	120	86.25	10.5	H10591-ND	8.03	162.23	509.85	FX2CA2-120P-1.27DSA(71)
Straight Header - RoHS Compliant								
9	60	30.9	—	H10516-ND	7.72	155.93	490.05	FX2M6A-60P-1.27DSAL(71)
	60	24.9	—	H10518-ND	7.75	156.45	491.70	FX2M6B-60P-1.27DSAL(71)
Right Angle Header - RoHS Compliant								
10	20	22.75	—	H10628-ND	3.28	63.56	203.40	FX2-20P-1.27DS(71)
	32	30.37	—	H10629-ND	3.80	73.69	235.80	FX2-32P-1.27DS(71)
	40	35.45	—	H10630-ND	4.23	82.13	262.80	FX2-40P-1.27DS(71)
	52	43.07	—	H10631-ND	5.02	97.31	311.40	FX2-52P-1.27DS(71)
	60	48.15	—	H10632-ND	5.54	107.44	343.80	FX2-60P-1.27DS(71)
	68	53.23	—	H10633-ND	5.92	114.75	367.20	FX2-68P-1.27DS(71)
	80	60.85	—	H10634-ND	6.96	135.00	432.00	FX2-80P-1.27DS(71)
	100	73.55	—	H10635-ND	7.10	143.33	450.45	FX2-100P-1.27DS(71)
	120	86.25	—	H10636-ND	8.29	167.48	526.35	FX2-120P-1.27DS(71)
Right Angle Header Lock Type - RoHS Compliant								
11	20	30.33	—	H10492-ND	3.89	75.38	241.20	FX2B-20PA-1.27DS(71)
	32	37.95	—	H10493-ND	4.23	82.13	262.80	FX2B-32PA-1.27DS(71)
	40	43.03	—	H10494-ND	5.10	99.00	316.80	FX2B-40PA-1.27DS(71)
	52	50.65	—	H10495-ND	5.37	104.06	333.00	FX2B-52PA-1.27DS(71)
	60	55.73	—	H10496-ND	5.68	110.25	352.80	FX2B-60PA-1.27DS(71)
	68	60.81	—	H10497-ND	5.89	114.19	365.40	FX2B-68PA-1.27DS(71)
	80	68.43	—	H10498-ND	6.29	122.06	390.60	FX2B-80PA-1.27DS(71)
	100	81.13	—	H10499-ND	6.87	133.31	426.60	FX2B-100PA-1.27DS(71)
Socket Lock Cable Type (4 pieces per part) - RoHS Compliant								
12	20	27.83	—	H4342-ND	7.38	149.10	468.60	FX2B-20SA-1.27R
	32	35.45	—	H4343-ND	7.90	159.60	501.60	FX2B-32SA-1.27R
	40	40.53	—	H4344-ND	8.81	177.98	559.35	FX2B-40SA-1.27R
	52	48.15	—	H4345-ND	9.07	183.23	575.85	FX2B-52SA-1.27R
	60	53.23	—	H4346-ND	8.63	178.13	600.00	FX2B-60SA-1.27R
	68	58.31	—	H4296-ND	8.92	184.30	620.80	FX2B-68SA-1.27R
	80	65.93	—	H4347-ND	9.22	190.48	641.60	FX2B-80SA-1.27R
	100	78.63	—	H4348-ND	9.82	202.83	683.20	FX2B-100SA-1.27R
Socket Unlock Cable Type - RoHS Compliant								
13	20	18.05	—	H4349-ND	6.73	130.50	417.60	FX2BA-20SA-1.27R
	32	25.67	—	H4350-ND	6.55	132.30	415.80	FX2BA-32SA-1.27R
	40	30.75	—	H4351-ND	7.46	150.68	473.55	FX2BA-40SA-1.27R
	52	38.37	—	H4352-ND	7.72	155.93	490.05	FX2BA-52SA-1.27R
	60	43.45	—	H4353-ND	8.42	170.10	534.60	FX2BA-60SA-1.27R
	80	56.15	—	H4297-ND	9.02	182.18	572.55	FX2BA-80SA-1.27R
	100	68.85	—	H4355-ND	8.63	178.13	600.00	FX2BA-100SA-1.27R
Tools								
Guide Plate				H4356-ND		3770.00/1		FX2B(A)-GPA
Connection Press				H4357-ND		965.90/1		HIFLEX PRESS HHP502

HIROSE ELECTRIC CO., LTD.

FX15 Series Connectors

1mm Pitch

Features: • Small and space saving design. Double-row contact arrangement at mating face. Single-row SMT lead design. • Equal length transmission lines. • Enhanced grounding and robust design by metal shell • Large guide posts facilitate mating operation • Side lock design enables user-friendly operation **Applications:** • LCD TV, LCD panel, PDP, digital devices **Specifications:** • Current Rating: 0.5A • Contact Mating Area: Gold plating • Contact Spacing: 1mm • Operating Temperature Range: -55°C ~ 80°C • UL94V-0

Fig. 1

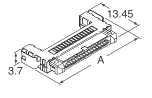

Shown with shields

Fig. 2

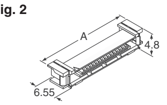

Shown without shields

Fig. 3

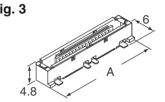

Shown with shields

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel◊		Hirose Part No.
				1	25	100	Qty.	Pricing	
Plugs									
1	21	24.8	H11434-ND	.84	.61	.50	—	—	FX15M-21P-C
	31	29.8	H11436-ND	.99	.72	.59	—	—	FX15M-31P-C
	31	27	H11425-ND†	2.44	1.88	1.50	—	—	FX15-31P-C
	31	27	H11428-ND†	2.37	1.83	1.46	—	—	FX15S-31P-C
	41	32	H11430-ND†	2.54	1.95	1.56	—	—	FX15S-41P-C
	51	37	H11432-ND†	2.67	2.05	1.64	—	—	FX15S-51P-C
Receptacles – Right Angle									
2	21	22.4	H11435CT-ND	1.86	1.35	1.11	1,000	652.00	FX15M-21S-0.5SH
	31	27.4	H11427CT-ND	1.92	1.48	1.18	1,000	785.00	FX15M-31S-0.5SH
	31	27.4	H11429CT-ND†	2.57	1.98	1.58	1,000	1051.00	FX15S-31S-0.5SH
	41	32.4	H11431CT-ND†	2.86	2.20	1.76	1,000	1170.00	FX15S-41S-0.5SH
	51	37.4	H11433CT-ND†	3.19	2.45	1.96	1,000	1303.00	FX15S-51S-0.5SH
Receptacle – Vertical									
3	31	25.7	H11426CT-ND†	2.76	2.13	1.70	1,000	1131.00	FX15-31S-0.5SV
Plug Crimp Contacts									
32 ~ 30AWG Gold Plating			H11424CT-ND	—	—	.07	20,000	27.00/M	FX15-3032PCFA

◊ For Tape and Reel part numbers, change CT-ND to TR-ND. † With shields

DF19 Series Connectors 1mm Pitch

Features: • Ultra Low Profile; FPC type: Maximum 1.7mm thick; Discrete wire and coaxial 1.5mm thick **Applications:** • LCD's, notebook personal computers, small OA machines, and small consumer products **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.9A, AWG#32: 0.8A, AWG#36 and FPC: 0.5A • Voltage Rating: 100VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ minimum • Withstanding Voltage: No flashover or breakdown • Contact Resistance: 30mΩ maximum (50mΩ maximum for FPC) **Material:** • *Pin Header:* Insulation: Polyamide resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated; Ground Plate: Phosphor bronze, tin-copper plated • *Socket:* Insulation: Polyamide resin, beige; Ground Plate: Stainless steel tin-copper plated • *Crimp Contact:* Terminal: Phosphor bronze, gold plated • *PPC Socket:* Insulation: Polyamide resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated • *Ground Plate for PPC:* Stainless steel, tin-copper plated • *Socket for micro-coaxial cables:* Insulation: LCP resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated; Ground Plate: Phosphor bronze, tin plated • *Ground plate for micro-coaxial cables:* Phosphor bronze, tin plated • Recommended Wire: UL1571 • Tinning is Whisker free

Fig. 1

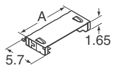

Fig. 2

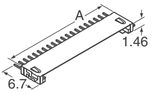

Fig. 3

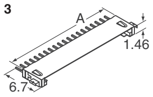

Fig. 4

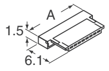

Fig. 5

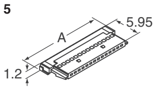

Fig. 6

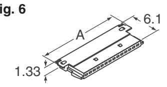

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing			T & R◊ Pricing 1,000	Hirose Part No.
				1	10	100		
Right Angle Pin Headers SMT On-Board Type								
1	8	11.55	H3119CT-ND	4.21	34.80	261.00	—	DF19G-8P-1H(59)
RoHS Compliant								
1	8	11.55	H11684CT-ND‡ ***NEW!***	4.38	36.24	271.80	1963.00	DF19G-8P-1H(54)
	14	17.55	H11681CT-ND‡ ***NEW!***	4.64	38.40	288.00	2080.00	DF19G-14P-1H(54)
	20	23.55	H11682CT-ND‡ ***NEW!***	5.77	47.76	358.20	2587.00	DF19G-20P-1H(54)
	30	33.55	H11683CT-ND‡ ***NEW!***	6.79	56.16	421.20	3042.00	DF19G-30P-1H(54)
Right Angle Pin Headers SMT Offset Type — RoHS Compliant								
2	20	23.55	H11685CT-ND‡ ***NEW!***	5.19	42.96	322.20	2327.00	DF19K-20P-1H(54)
	20	23.55	H10749CT-ND	5.77	47.76	358.20	—	DF19K-20P-1H(56)
	30	33.55	H11858CT-ND‡ ***NEW!***	2.96	24.48	183.60	1326.00	DF19K-30P-1H(54)
	14	17.55	H11688CT-ND‡ ***NEW!***	4.67	38.64	289.80	2093.00	DF19L-14P-1H(54)
	14	17.55	H10751CT-ND	5.19	42.96	322.20	—	DF19L-14P-1H(56)
	20	23.55	H11689CT-ND‡ ***NEW!***	5.19	42.96	322.20	2327.00	DF19L-20P-1H(54)
	20	23.55	H10752CT-ND	5.77	47.76	358.20	—	DF19L-20P-1H(56)
	30	33.55	H11859CT-ND‡ ***NEW!***	2.96	24.48	183.60	1326.00	DF19L-30P-1H(54)
Right Angle Pin Headers SMT Reverse Offset Type — RoHS Compliant								
3	14	17.55	H11686CT-ND‡ ***NEW!***	4.67	38.64	289.80	2093.00	DF19KR-14P-1H(54)
	14	17.55	H10754CT-ND	5.19	42.96	322.20	2327.00	DF19KR-14P-1H(56)
	20	23.55	H11687CT-ND‡ ***NEW!***	5.19	42.96	322.20	2327.00	DF19KR-20P-1H(54)
	20	23.55	H10755CT-ND	5.77	47.76	358.20	—	DF19KR-20P-1H(56)
Single Row Sockets Discrete Wire - RoHS Compliant								
4	8	11.50	H3101-ND	.53	3.31	19.00	—	DF19-8S-1C
	8	11.50	H10756-ND	.91	7.44	54.00	—	DF19G-8S-1C(05)
	14	17.50	H3102-ND	.55	3.82	25.62	—	DF19-14S-1C
	14	17.50	H10757-ND	1.18	9.61	69.75	—	DF19G-14S-1C(05)
	20	23.50	H3103-ND	.58	4.74	34.43	—	DF19-20S-1C
	20	23.50	H10758-ND	1.48	12.09	87.75	—	DF19G-20S-1C(05)
	30	33.50	H3104-ND	.84	6.82	49.50	—	DF19-30S-1C
	30	33.50	H10759-ND	1.66	13.77	102.00	—	DF19G-30S-1C(05)
Single Row Sockets for FPC Cable - RoHS Compliant								
5	14	17.50	H10760-ND	1.72	14.31	106.00	—	DF19G-14S-1F(05)
	20	23.50	H10761-ND	2.18	18.09	134.00	—	DF19G-20S-1F(05)
	30	33.50	H10762-ND	2.67	22.14	164.00	—	DF19G-30S-1F(05)
Single Row Sockets Fine Coaxial Cable — RoHS Compliant								
6	14	17.50	H10763-ND	2.11	17.55	130.00	—	DF19G-14S-1SD(05)
	20	23.50	H10764-ND	2.50	20.79	154.00	—	DF19G-20S-1SD(05)

◊ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Halogen Free

Ground Plates

No. of Pins	Digi-Key Part No.	Pricing			Hirose Part No.
		1	10	100	
Ground Plates for FPC Type					
14	H10765-ND	.72	5.89	42.75	DF19G-14S-1F-GND(05)
20	H10766-ND	.76	6.20	45.00	DF19G-20S-1F-GND(05)
30	H10767-ND	.76	6.20	45.00	DF19G-30S-1F-GND(05)
Ground Plates for Coaxial Type					
14	H3117-ND	.55	3.82	25.62	DF19G-14S-1SD-GND
20	H3118-ND	.64	4.48	30.08	DF19G-20S-1SD-GND

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
		100	500	1,000			
DF19 Series – RoHS Compliant							
30 ~ 28AWG Gold Plating	H3151CT-ND	7.13	24.15	36.80	H3151TR-ND	29.00/M	DF19-2830SCFA
32 ~ 30AWG Gold Plating	H3132CT-ND	7.13	24.15	36.80	H3132TR-ND	29.00/M	DF19-3032SCFA
Tools							
Manual Crimper for DF19 Series					H3131-ND§	1606.80/1	HT302/DF19S
Desk-Top Tool (for 14 core wires)					H3122-ND§	2414.10/1	DF19G-14S/PR-MD2
Desk-Top Tool (for 20 core wires)					H3123-ND§	2666.30/1	DF19G-20S/PR-MD2
Desk-Top Tool (for 30 core wires)					H3124-ND§	3164.20/1	DF19G-30S/PR-MD2

§ Bulk

DF20 Series Connectors

1mm Pitch

Features: • Contact pitch: 1mm allows reliable solder and cable termination • Low Profile: Total mating height above the board is 5.8mm for the straight type and 5.5mm for right angle type **Applications:** Notebook PC, small office automation equipment, small consumer devices, portable devices. Any application requiring low profile reliable board-to-cable connection with a AWG# 28, AWG# 30, AWG# 32 conductors **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.9A, AWG#32: 0.7A • Voltage Rating: AC100V • Operating Temperature: -35°C ~ 85°C • Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ minimum • Contact Resistance: 30mΩ maximum • Mechanical Operation: Contact Resistance of 30mΩ maximum **Material:** • Socket Insulator/Pin Header Insulator: Polyamide, beige, UL94V-0 • Socket Contact/Pin Header Contact: Phosphor bronze, gold plated • Pin Header Metal Fitting: Brass • V Type: Solder plating • H Type: Tin copper plating (Pb free)

Fig. 1

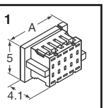

Fig. 2

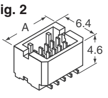

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing			T & R◊ Pricing 1,000	Hirose Part No.
				1	10	100		
Double Row Sockets— RoHS Compliant								
1	10	7.20	H3143-ND§	.42	2.91	19.51	—	DF20A-10DS-1C
	20	12.20	H3144-ND§	.48	3.33	22.33	—	DF20A-20DS-1C
	30	17.20	H3145-ND§	.54	3.75	25.15	—	DF20A-30DS-1C
	40	22.20	H3146-ND§	.59	4.13	27.73	—	DF20A-40DS-1C
	50	27.20	H3147-ND§	.64	4.45	29.85	—	DF20A-50DS-1C
Double Row Straight Pin Headers								
2	10	7.30	H10726CT-ND†	1.56	12.71	92.25	545.00	DF20F-10DP-1V(56)
	20	12.30	H10727CT-ND†	1.76	14.58	108.00	718.00	DF20F-20DP-1V(56)
	30	17.30	H10728CT-ND†	2.21	18.36	136.00	904.00	DF20F-30DP-1V(56)
	40	22.30	H10729CT-ND†	2.73	22.68	168.00	1117.00	DF20F-40DP-1V(56)
	50	27.30	H10730CT-ND†	3.19	26.46	196.00	1303.00	DF20F-50DP-1V(56)
	10	7.30	H10731CT-ND★	1.56	12.71	92.25	545.00	DF20G-10DP-1V(56)
	20	12.30	H10732CT-ND★	1.76	14.58	108.00	718.00	DF20G-20DP-1V(56)
	30	17.30	H10733CT-ND★	2.21	18.36	136.00	904.00	DF20G-30DP-1V(56)
	40	22.30	H10734CT-ND★	2.73	22.68	168.00	1117.00	DF20G-40DP-1V(56)
	50	27.30	H10735CT-ND★	3.19	26.46	196.00	1303.00	DF20G-50DP-1V(56)

★ With Boss † Without Boss ◊ For Tape and Reel part number, change CT-ND to TR-ND. § Bulk

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
		100	500	1,000			
DF20 Series							
30 ~ 28AWG Gold Plating	H3148CT-ND	5.58	18.90	28.80	H3148TR-ND	23.00/M	DF20F-2830SCFA
32 ~ 30AWG Gold Plating	H3149CT-ND	5.58	18.90	28.80	H3149TR-ND	23.00/M	DF20F-3032SCFA
Tool							
Manual Crimper for DF20 Series					H3150-ND§	1606.80/1	HT302/DF20B-2830S

§ Bulk

HIROSE ELECTRIC CO., LTD.

DF13 Series Connectors

1.25mm Pitch

RoHS COMPLIANT

Digi-Reel®

DF13 Series is 1.25mm pitch, compact "PCB-to-Wire" Nylon Connectors best suited for high density applications requiring reduced cost production, and light-weight. **Electrical Specifications:** • Current Capacity: 1A • Rated Voltage: 150VAC • Insulation Resistance: Condition: 100VDC, Standard Value: Min. 500MΩ • Withstanding Voltage: Condition: At specified value, Standard Value: 500VAC. • Contact Resistance: Condition: At 100mA, Standard Value: Maximum 30mΩ. Material and Finish: • Pin Header Insulator: Polyamide resin, beige, UL94V-0. • Pin Header Contact: Brass, tin plating and gold plating. • Pin Header Hardware: Brass, tin plating and gold plating. • Crimp Socket Insulator: Polyamide resin, beige, UL94V-0. • Crimp Socket Contact: Phosphor bronze, tin plating and gold plating.

Fig. 1

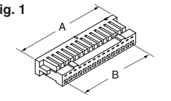

Fig. 2

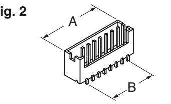

Fig. 3

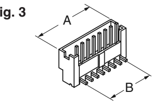

Fig. 4

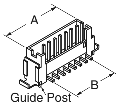

Fig. 5

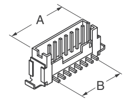

Fig. 6

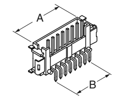

Fig. 7

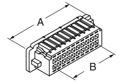

Fig. 8

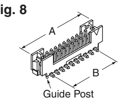

Fig. 9

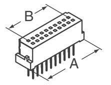

Fig. 10

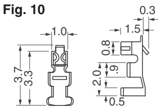

No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
Fig. 1 — Single Row Crimp Socket							
2	4.15	1.25	H2179-ND	.29	3.00	7.44	DF13-2S-1.25C
3	5.40	2.50	H2180-ND	.23	2.54	7.15	DF13-3S-1.25C
4	6.65	3.75	H2181-ND	.28	3.35	10.00	DF13-4S-1.25C
5	7.90	5.00	H2182-ND	.29	3.52	10.50	DF13-5S-1.25C
6	9.15	6.25	H2183-ND	.31	3.69	11.00	DF13-6S-1.25C
7	10.40	7.50	H2184-ND	.32	3.77	11.25	DF13-7S-1.25C
8	11.65	8.75	H2185-ND	.49	5.86	17.50	DF13-8S-1.25C
9	12.90	10.00	H3300-ND	.41	6.08	19.04	DF13-9S-1.25C
10	14.15	11.25	H2186-ND	.52	6.20	18.50	DF13-10S-1.25C
11	15.40	12.50	H2187-ND	.55	6.62	19.75	DF13-11S-1.25C
12	16.65	13.75	H2188-ND	.41	6.08	19.04	DF13-12S-1.25C
13	17.90	15.00	H3301-ND	.55	6.62	19.75	DF13-13S-1.25C
14	19.15	16.25	H2189-ND	.49	7.35	23.03	DF13-14S-1.25C
15	20.40	17.50	H2259-ND	.53	6.37	19.00	DF13-15S-1.25C
Fig. 2 — Single Row, Vertical Pin Header — Tin Plating							
2	4.15	1.25	H2191-ND	.50	5.95	17.75	DF13-2P-1.25DSA
3	5.40	2.50	H2192-ND	.43	6.38	19.98	DF13-3P-1.25DSA
4	6.65	3.75	H2193-ND	.56	8.33	26.09	DF13-4P-1.25DSA
5	7.90	5.00	H2194-ND	.63	9.45	29.61	DF13-5P-1.25DSA
6	9.15	6.25	H2195-ND	.71	10.58	33.14	DF13-6P-1.25DSA
7	10.40	7.50	H2196-ND	.59	10.73	35.10	DF13-7P-1.25DSA
8	11.65	8.75	H2197-ND	.76	13.75	45.00	DF13-8P-1.25DSA
9	12.90	10.00	H3302-ND	1.10	19.94	65.25	DF13-9P-1.25DSA(20)
10	14.15	11.25	H2198-ND	.87	15.81	51.75	DF13-10P-1.25DSA
11	15.40	12.50	H3303-ND	1.22	22.00	72.00	DF13-11P-1.25DSA(20)
12	16.65	13.75	H2320-ND	.91	16.50	54.00	DF13-12P-1.25DSA
13	17.90	15.00	H3304-ND	1.33	24.06	78.75	DF13-13P-1.25DSA(20)
14	19.15	16.25	H2321-ND	1.03	18.56	60.75	DF13-14P-1.25DSA
15	20.40	17.50	H2322-ND	1.06	19.25	63.00	DF13-15P-1.25DSA
Fig. 2 — Single Row, Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3305-ND	.62	11.14	36.45	DF13-2P-1.25DSA(50)
3	5.40	2.50	H3306-ND	.84	15.13	49.50	DF13-3P-1.25DSA(50)
4	6.65	3.75	H3307-ND	.84	15.13	49.50	DF13-4P-1.25DSA(50)
5	7.90	5.00	H3308-ND	.95	17.19	56.25	DF13-5P-1.25DSA(50)
6	9.15	6.25	H3309-ND	1.25	22.69	74.25	DF13-6P-1.25DSA(50)
7	10.40	7.50	H3310-ND	1.10	19.94	65.25	DF13-7P-1.25DSA(50)
8	11.65	8.75	H3311-ND	1.33	24.06	78.75	DF13-8P-1.25DSA(50)
9	12.90	10.00	H3312-ND	1.33	24.06	78.75	DF13-9P-1.25DSA(50)
10	14.15	11.25	H3313-ND	1.52	27.50	90.00	DF13-10P-1.25DSA(50)
12	16.65	13.75	H3315-ND	1.92	36.88	118.00	DF13-12P-1.25DSA(50)
14	19.15	16.25	H3316-ND	1.79	32.31	105.75	DF13-14P-1.25DSA(50)
15	20.40	17.50	H3317-ND	1.63	31.25	100.00	DF13-15P-1.25DSA(50)
Fig. 3 — Single Row, Right Angle Pin Header — Tin Plating							
2	4.15	1.25	H2199-ND	.52	7.73	24.21	DF13-2P-1.25DS(20)
3	5.40	2.50	H2260-ND	.60	9.00	28.20	DF13-3P-1.25DS(20)
4	6.65	3.75	H2201-ND	.74	11.03	34.55	DF13-4P-1.25DS(20)
5	7.90	5.00	H2202-ND	.67	12.10	39.60	DF13-5P-1.25DS(20)
6	9.15	6.25	H2203-ND	.72	13.06	42.75	DF13-6P-1.25DS(20)
7	10.40	7.50	H2204-ND	.84	15.13	49.50	DF13-7P-1.25DS(20)
8	11.65	8.75	H2205-ND	.99	17.88	58.50	DF13-8P-1.25DS(20)
9	12.90	10.00	H3318-ND	1.33	24.06	78.75	DF13-9P-1.25DS(20)
10	14.15	11.25	H2206-ND	1.18	21.31	69.75	DF13-10P-1.25DS(20)
11	15.40	12.50	H3319-ND	1.56	28.19	92.25	DF13-11P-1.25DS(20)
12	16.65	13.75	H2323-ND	1.67	30.25	99.00	DF13-12P-1.25DS(20)
14	19.15	16.25	H2324-ND	1.41	25.44	83.25	DF13-14P-1.25DS(20)
15	20.40	17.50	H2325-ND	1.72	33.13	106.00	DF13-15P-1.25DS(20)
Fig. 3 — Single Row, Right Angle Pin Header — Gold Plating							
2	4.15	1.25	H3320-ND	.66	9.90	31.02	DF13-2P-1.25DS(50)
3	5.40	2.50	H3321-ND	.62	11.14	36.45	DF13-3P-1.25DS(50)
4	6.65	3.75	H3322-ND	.80	14.44	47.25	DF13-4P-1.25DS(50)
5	7.90	5.00	H3323-ND	.91	16.50	54.00	DF13-5P-1.25DS(50)
6	9.15	6.25	H3324-ND	.99	17.88	58.50	DF13-6P-1.25DS(50)
7	10.40	7.50	H3325-ND	1.10	19.94	65.25	DF13-7P-1.25DS(50)
8	11.65	8.75	H3326-ND	1.33	24.06	78.75	DF13-8P-1.25DS(50)
9	12.90	10.00	H3327-ND	1.52	27.50	90.00	DF13-9P-1.25DS(50)
10	14.15	11.25	H3328-ND	1.56	28.19	92.25	DF13-10P-1.25DS(50)
11	15.40	12.50	H3329-ND	1.67	30.25	99.00	DF13-11P-1.25DS(50)
12	16.65	13.75	H3330-ND	1.79	32.31	105.75	DF13-12P-1.25DS(50)
14	19.15	16.25	H3331-ND	1.76	33.75	108.00	DF13-14P-1.25DS(50)
15	20.40	17.50	H3332-ND	1.86	33.69	110.25	DF13-15P-1.25DS(50)

No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
Fig. 4 — Single Row, SMT, Vertical Pin Header with Guide Posts — Tin Plating							
2	4.15	1.25	H2207-ND	.59	8.78	27.50	DF13-2P-1.25V(20)
3	5.40	2.50	H2208-ND	.66	9.90	31.02	DF13-3P-1.25V(20)
4	6.65	3.75	H2209-ND	.62	11.14	36.45	DF13-4P-1.25V(20)
5	7.90	5.00	H2210-ND	.67	12.10	39.60	DF13-5P-1.25V(20)
6	9.15	6.25	H2211-ND	.72	13.06	42.75	DF13-6P-1.25V(20)
7	10.40	7.50	H2212-ND	.80	14.44	47.25	DF13-7P-1.25V(20)
8	11.65	8.75	H2213-ND	.95	17.19	56.25	DF13-8P-1.25V(20)
9	12.90	10.00	H3335-ND	.99	17.88	58.50	DF13-9P-1.25V(20)
10	14.15	11.25	H2214-ND	1.06	19.25	63.00	DF13-10P-1.25V(20)
11	15.40	12.50	H2215-ND	1.10	19.94	65.25	DF13-11P-1.25V(20)
12	16.65	13.75	H2216-ND	1.18	21.31	69.75	DF13-12P-1.25V(20)
14	19.15	16.25	H2217-ND	1.33	24.06	78.75	DF13-14P-1.25V(20)
15	20.40	17.50	H2218-ND	1.44	26.13	85.50	DF13-15P-1.25V(20)
Fig. 4 — Single Row, SMT with Guide Posts, Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3336-ND	.80	14.44	47.25	DF13-2P-1.25V(50)
3	5.40	2.50	H3337-ND	.95	17.19	56.25	DF13-3P-1.25V(50)
4	6.65	3.75	H3338-ND	1.18	21.31	69.75	DF13-4P-1.25V(50)
5	7.90	5.00	H3339-ND	1.29	23.38	76.50	DF13-5P-1.25V(50)
6	9.15	6.25	H3340-ND	1.44	26.13	85.50	DF13-6P-1.25V(50)
7	10.40	7.50	H3341-ND	1.52	27.50	90.00	DF13-7P-1.25V(50)
8	11.65	8.75	H3342-ND	1.75	31.63	103.50	DF13-8P-1.25V(50)
9	12.90	10.00	H3343-ND	1.63	31.25	100.00	DF13-9P-1.25V(50)
10	14.15	11.25	H3344-ND	1.76	33.75	108.00	DF13-10P-1.25V(50)
11	15.40	12.50	H3345-ND	1.76	33.75	108.00	DF13-11P-1.25V(50)
12	16.65	13.75	H3346-ND	1.76	33.75	108.00	DF13-12P-1.25V(50)
14	19.15	16.25	H3347-ND	2.15	41.25	132.00	DF13-14P-1.25V(50)
15	20.40	17.50	H3348-ND	2.24	43.13	138.00	DF13-15P-1.25V(50)
Fig. 5 — Single Row, SMT, Vertical Pin Header with Boss — Tin Plating							
2	4.15	1.25	H3393-ND	.59	8.78	27.50	DF13B-2P-1.25V(20)
3	5.40	2.50	H3394-ND	.66	9.90	31.02	DF13B-3P-1.25V(20)
4	6.65	3.75	H3395-ND	.62	11.14	36.45	DF13B-4P-1.25V(20)
5	7.90	5.00	H3396-ND	.67	12.10	39.60	DF13B-5P-1.25V(20)
6	9.15	6.25	H3397-ND	.72	13.06	42.75	DF13B-6P-1.25V(20)
7	10.40	7.50	H3398-ND	.80	14.44	47.25	DF13B-7P-1.25V(20)
8	11.65	8.75	H3399-ND	.95	17.19	56.25	DF13B-8P-1.25V(20)
8	11.65	8.75	H3399CT-ND✔†	1.03	18.56	60.75	DF13B-8P-1.25V(21)
8	11.65	8.75	H3399TR-ND✔‡		359.10/1,000		DF13B-8P-1.25V(21)
10	14.15	11.25	H3401-ND	1.06	19.25	63.00	DF13B-10P-1.25V(20)
11	15.40	12.50	H3402-ND	1.10	19.94	65.25	DF13B-11P-1.25V(20)
14	19.15	16.25	H3404-ND	1.33	24.06	78.75	DF13B-14P-1.25V(20)
Fig. 5 — Single Row, SMT, Vertical Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3406-ND	.80	14.44	47.25	DF13B-2P-1.25V(50)
3	5.40	2.50	H3407-ND	.95	17.19	56.25	DF13B-3P-1.25V(50)
4	6.65	3.75	H3408-ND	1.18	21.31	69.75	DF13B-4P-1.25V(50)
5	7.90	5.00	H3409-ND	1.29	23.38	76.50	DF13B-5P-1.25V(50)
6	9.15	6.25	H3410-ND	1.44	26.13	85.50	DF13B-6P-1.25V(50)
7	10.40	7.50	H3411-ND	1.52	27.50	90.00	DF13B-7P-1.25V(50)
8	11.65	8.75	H3412-ND	1.75	31.63	103.50	DF13B-8P-1.25V(50)
8	11.65	8.75	H3412CT-ND✔†	1.67	30.25	99.00	DF13B-8P-1.25V(51)
8	11.65	8.75	H3412TR-ND✔‡		585.20/1,000		DF13B-8P-1.25V(51)
9	12.90	10.00	H3413-ND	1.63	31.25	100.00	DF13B-9P-1.25V(50)
10	14.15	11.25	H3414CT-ND✔†	1.66	31.88	102.00	DF13B-10P-1.25V(51)
10	14.15	11.25	H3414TR-ND✔‡		678.30/1,000		DF13B-10P-1.25V(51)
11	15.40	12.50	H3415-ND	1.76	33.75	108.00	DF13B-11P-1.25V(50)
12	16.65	13.75	H3416-ND	1.92	36.88	118.00	DF13B-12P-1.25V(50)
14	19.15	16.25	H3417-ND	2.15	41.25	132.00	DF13B-14P-1.25V(50)
15	20.40	17.50	H3418-ND	2.24	43.13	138.00	DF13B-15P-1.25V(50)
Fig. 5 — Single Row, SMT, Vertical Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3419-ND	.59	8.78	27.50	DF13C-2P-1.25V(20)
3	5.40	2.50	H3420-ND	.66	9.90	31.02	DF13C-3P-1.25V(20)
4	6.65	3.75	H3421-ND	.62	11.14	36.45	DF13C-4P-1.25V(20)
5	7.90	5.00	H3422-ND	.67	12.10	39.60	DF13C-5P-1.25V(20)
6	9.15	6.25	H3423-ND	.72	13.06	42.75	DF13C-6P-1.25V(20)
7	10.40	7.50	H3424-ND	.80	14.44	47.25	DF13C-7P-1.25V(20)
8	11.65	8.75	H3425-ND	.95	17.19	56.25	DF13C-8P-1.25V(20)
9	12.90	10.00	H3426-ND	.99	17.88	58.50	DF13C-9P-1.25V(20)
10	14.15	11.25	H3427-ND	1.06	19.25	63.00	DF13C-10P-1.25V(20)
11	15.40	12.50	H3428-ND	1.10	19.94	65.25	DF13C-11P-1.25V(20)
12	16.65	13.75	H3429-ND	1.18	21.31	69.75	DF13C-12P-1.25V(20)
14	19.15	16.25	H3430-ND	1.33	24.06	78.75	DF13C-14P-1.25V(20)
15	20.40	17.50	H3431-ND	1.44	26.13	85.50	DF13C-15P-1.25V(20)
Fig. 5 — Single Row, SMT, Vertical Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3432-ND	.80	14.44	47.25	DF13C-2P-1.25V(50)
3	5.40	2.50	H3433-ND	.95	17.19	56.25	DF13C-3P-1.25V(50)
4	6.65	3.75	H3434-ND	1.18	21.31	69.75	DF13C-4P-1.25V(50)
5	7.90	5.00	H3435-ND	1.29	23.38	76.50	DF13C-5P-1.25V(50)
6	9.15	6.25	H3436-ND	1.44	26.13	85.50	DF13C-6P-1.25V(50)
7	10.40	7.50	H3437-ND	1.52	27.50	90.00	DF13C-7P-1.25V(50)
8	11.65	8.75	H3438-ND	1.75	31.63	103.50	DF13C-8P-1.25V(50)
9	12.90	10.00	H3439-ND	1.63	31.25	100.00	DF13C-9P-1.25V(50)
10	14.15	11.25	H3440-ND	1.76	33.75	108.00	DF13C-10P-1.25V(50)
12	16.65	13.75	H3442-ND	1.92	36.88	118.00	DF13C-12P-1.25V(50)
14	19.15	16.25	H3443-ND	2.15	41.25	132.00	DF13C-14P-1.25V(50)
15	20.40	17.50	H3444-ND	2.24	43.13	138.00	DF13C-15P-1.25V(50)
Fig. 6 — Single Row, SMT, Right Angle Pin Header with Boss — Tin Plating							
2	4.15	1.25	H2219-ND	.59	8.85	27.73	DF13-2P-1.25H(20)
3	5.40	2.50	H2220-ND	.66	9.90	31.02	DF13-3P-1.25H(20)
4	6.65	3.75	H2221-ND	.62	11.14	36.45	DF13-4P-1.25H(20)
5	7.90	5.00	H2222-ND	.68	12.38	40.50	DF13-5P-1.25H(20)
6	9.15	6.25	H2223-ND	.72	13.06	42.75	DF13-6P-1.25H(20)
7	10.40	7.50	H2224-ND	.84	15.13	49.50	DF13-7P-1.25H(20)
8	11.65	8.75	H2225-ND	.99	17.88	58.50	DF13-8P-1.25H(20)
9	12.90	10.00	H3349-ND	1.06	19.25	63.00	DF13-9P-1.25H(20)
10	14.15	11.25	H2226-ND	1.10	19.94	65.25	DF13-10P-1.25H(20)
12	16.65	13.75	H2228-ND	1.22	22.00	72.00	DF13-12P-1.25H(20)
14	19.15	16.25	H2229-ND	1.41	25.44	83.25	DF13-14P-1.25H(20)
15	20.40	17.50	H2230-ND	1.44	26.13	85.50	DF13-15P-1.25H(20)
Fig. 6 — Single Row, SMT, Right Angle Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3350-ND	.80	14.44	47.25	DF13-2P-1.25H(50)
3	5.40	2.50	H3351-ND	.95	17.19	56.25	DF13-3P-1.25H(50)
4	6.65	3.75	H3352-ND	1.10	19.94	65.25	DF13-4P-1.25H(50)
5	7.90	5.00	H3353-ND	1.29	23.38	76.50	DF13-5P-1.25H(50)
6	9.15	6.25	H3354-ND	1.44	26.13	85.50	DF13-6P-1.25H(50)
7	10.40	7.50	H3355-ND	1.52	27.50	90.00	DF13-7P-1.25H(50)

✔ ***NEW!*** § With Boss Δ Without Boss † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

DF13 Series Connectors
1.25mm Pitch *(Cont.)*

No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
8	11.65	8.75	H3356-ND	1.75	31.63	103.50	DF13-8P-1.25H(50)
9	12.90	10.00	H3357-ND	1.63	31.25	100.00	DF13-9P-1.25H(50)
10	14.15	11.25	H3358-ND	1.72	33.13	106.00	DF13-10P-1.25H(50)
12	16.65	13.75	H3360-ND	1.92	36.88	118.00	DF13-12P-1.25H(50)
14	19.15	16.25	H3361-ND	2.15	41.25	132.00	DF13-14P-1.25H(50)
15	20.40	17.50	H3362-ND	2.24	43.13	138.00	DF13-15P-1.25H(50)
Fig. 6 — Single Row, SMT, Right Angle Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3367-ND	.59	8.78	27.50	DF13A-2P-1.25H(20)
3	5.40	2.50	H3368-ND	.66	9.90	31.02	DF13A-3P-1.25H(20)
4	6.65	3.75	H3369-ND	.62	11.14	36.45	DF13A-4P-1.25H(20)
5	7.90	5.00	H3370-ND	.67	12.10	39.60	DF13A-5P-1.25H(20)
6	9.15	6.25	H3371-ND	.72	13.06	42.75	DF13A-6P-1.25H(20)
7	10.40	7.50	H3372-ND	.80	14.44	47.25	DF13A-7P-1.25H(20)
8	11.65	8.75	H3373-ND	.95	17.19	56.25	DF13A-8P-1.25H(20)
9	12.90	10.00	H3374-ND	1.06	19.25	63.00	DF13A-9P-1.25H(20)
10	14.15	11.25	H3375-ND	1.10	19.94	65.25	DF13A-10P-1.25H(20)
11	15.40	12.50	H3376-ND	1.18	21.31	69.75	DF13A-11P-1.25H(20)
12	16.65	13.75	H3377-ND	1.22	22.00	72.00	DF13A-12P-1.25H(20)
14	19.15	16.25	H3378-ND	1.41	25.44	83.25	DF13A-14P-1.25H(20)
15	20.40	17.50	H3379-ND	1.44	26.13	85.50	DF13A-15P-1.25H(20)
Fig. 6 — Single Row, SMT, Right Angle Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3380-ND	.80	14.44	47.25	DF13A-2P-1.25H(50)
3	5.40	2.50	H3381-ND	.95	17.19	56.25	DF13A-3P-1.25H(50)
4	6.65	3.75	H3382-ND	1.18	21.31	69.75	DF13A-4P-1.25H(50)
5	7.90	5.00	H3383-ND	1.29	23.38	76.50	DF13A-5P-1.25H(50)
6	9.15	6.25	H3384-ND	1.44	26.13	85.50	DF13A-6P-1.25H(50)
7	10.40	7.50	H3385-ND	1.52	27.50	90.00	DF13A-7P-1.25H(50)
8	11.65	8.75	H3386-ND	1.75	31.63	103.50	DF13A-8P-1.25H(50)
10	14.15	11.25	H3388-ND	1.72	33.13	106.00	DF13A-10P-1.25H(50)
11	15.40	12.50	H3389-ND	1.76	33.75	108.00	DF13A-11P-1.25H(50)
12	16.65	13.75	H3390-ND	1.92	36.88	118.00	DF13A-12P-1.25H(50)
14	19.15	16.25	H3391-ND	2.15	41.25	132.00	DF13A-14P-1.25H(50)
Fig. 7 — Dual Row Crimp Sockets							
10	10.40	5.00	H2231-ND	.34	4.10	12.25	DF13-10DS-1.25C
20	16.65	11.25	H2232-ND	.41	4.94	14.75	DF13-20DS-1.25C
30	22.90	17.50	H2233-ND	.50	5.95	17.75	DF13-30DS-1.25C
40	29.15	23.75	H2234-ND	.40	6.00	18.80	DF13-40DS-1.25C
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Tin Plating							
10	12.1	5.00	H10155-ND§	1.06	19.25	63.00	DF13-10DP-1.25V(25)
20	18.35	11.25	H10156-ND§	1.52	27.50	90.00	DF13-20DP-1.25V(25)
10	12.1	5.00	H10157-NDΔ	1.06	19.25	63.00	DF13A-10DP-1.25V(25)
20	18.35	11.25	H10158-NDΔ	1.52	27.50	90.00	DF13A-20DP-1.25V(25)
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Gold Plating							
10	12.10	5.00	H10159-ND§	1.10	19.94	65.25	DF13-10DP-1.25V(55)
20	18.35	11.25	H10160-ND§	1.67	30.25	99.00	DF13-20DP-1.25V(55)
30	24.60	17.50	H10161-ND§	1.92	36.88	118.00	DF13-30DP-1.25V(55)
40	30.85	23.75	H10162-ND§	2.41	46.25	148.00	DF13-40DP-1.25V(55)
Fig. 8 — SMT Straight Pin Headers without Guide Posts — Gold Plating							
10	12.10	5.00	H10163-ND	1.10	19.94	65.25	DF13A-10DP-1.25V(55)
20	18.35	11.25	H10164-ND	1.67	30.25	99.00	DF13A-20DP-1.25V(55)
30	24.60	17.50	H10165-ND	1.92	36.88	118.00	DF13A-30DP-1.25V(55)
40	30.85	23.75	H10166-ND	2.41	46.25	148.00	DF13A-40DP-1.25V(55)
Fig. 9 — Dual Row Receptacles — Gold Plating							
20	15.40	11.25	H10167-ND	3.15	60.63	194.00	DF13-20DS-1.25DSA(55)
40	27.90	23.75	H10168-ND	4.38	84.94	271.80	DF13-40DS-1.25DSA(55)
Fig. 10 — Socket Crimp Contact							
Tin Plating AWG 26-30			H9992CT-ND† H9992TR-ND‡	3.41/100 140.00/10,000			DF13-2630SCF DF13-2630SCF
Gold Plating AWG 26-30			H9991CT-ND† H9991TR-ND‡	7.13/100 290.00/10,000			DF13-2630SCFA DF13-2630SCFA
Hand Crimp Tools and Die Sets							
Tool with Non-Removable Die			H9994-ND	986.70/1			DF13-TB2630HC
Tool without Die Set			H9926-ND	344.47/1			HRUS-HT-1
Extraction Tool							
Crimp Pin and Socket			H9996-ND	3.16/1			DF-C-PO(B)

§ With Boss   Δ Without Boss   † Cut Tape   ‡ Tape and Reel

DF14 Series Connectors 1.25mm Pitch

Features: • Board mounting height: 2.5mm • Box structure to prevent twisting and misinsertion • Metal holddown is attached to prevent the solder peel **Applications:** • LCD • Notebook PC • Mobile terminal small business equipment • Video camera **Specifications:** • Current Rating: 1A • Voltage Rating: 150VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 500MΩ minimum, 100VDC • Withstanding Voltage: 1 minute at rated value, 500VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum • Operating Life: Contact resistance of 30mΩ maximum (tin plating: 30 cycles and gold plating: 50 cycles) **Material (Socket/Header):** • Insulator: Polyamide, beige, UL94V-0 • Contacts: Socket: Phosphor copper with gold or tin plating; Header: Brass with gold or tin plating • Header Fittings: Phosphor copper with tin plating

Fig. 1

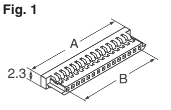

Fig. 2

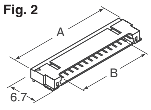

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Tape & Reel◊ Pricing 1,000	Hirose Part No.
Fig. 1 — Crimping Sockets — RoHS Compliant								
2	4.45	1.25	H1563-ND	.40	6.00	18.80	—	DF14-2S-1.25C
3	5.70	2.50	H1564-ND	.42	6.23	19.51	—	DF14-3S-1.25C
4	6.95	3.75	H1565-ND	.43	6.45	20.21	—	DF14-4S-1.25C
5	8.20	5.00	H1566-ND	.45	6.75	21.15	—	DF14-5S-1.25C
6	9.45	6.25	H1567-ND	.47	6.98	21.86	—	DF14-6S-1.25C
7	10.70	7.50	H1568-ND	.48	7.20	22.56	—	DF14-7S-1.25C
8	11.95	8.75	H1569-ND	.50	7.43	23.27	—	DF14-8S-1.25C
9	13.20	10.00	H1570-ND	.51	7.65	23.97	—	DF14-9S-1.25C
10	14.45	11.25	H1571-ND	.53	7.88	24.68	—	DF14-10S-1.25C
15	20.70	17.50	H1572-ND	.57	8.48	26.56	—	DF14-15S-1.25C
20	26.95	23.75	H1573-ND	.63	9.45	29.61	—	DF14-20S-1.25C
25	33.20	30.00	H1574-ND	.70	10.43	32.67	—	DF14-25S-1.25C
30	39.45	36.25	H1575-ND	.62	11.14	36.45	—	DF14-30S-1.25C
Fig. 2 — Right Angle Pin Headers (SMT)								
Tin Plating, With Boss								
3	8.70	2.50	H1512-ND	1.25	22.69	74.25	—	DF14-3P-1.25H(20)
8	14.95	8.75	H1517-ND	1.67	30.25	99.00	—	DF14-8P-1.25H(20)
Tin Plating, With Boss — RoHS Compliant								
2	7.45	1.25	H10310-ND	1.33	24.06	78.75	—	DF14-2P-1.25H(25)
3	8.70	2.50	H10314-ND	1.44	26.13	85.50	—	DF14-3P-1.25H(25)
4	9.95	3.75	H10316-ND	1.56	28.19	92.25	—	DF14-4P-1.25H(25)
5	11.20	5.00	H10318-ND	1.60	28.88	94.50	—	DF14-5P-1.25H(25)
6	12.45	6.25	H10320-ND	1.67	30.25	99.00	—	DF14-6P-1.25H(25)
7	13.70	7.50	H10322CT-ND✔†	1.82	33.00	108.00	638.40	DF14-7P-1.25H(26)
8	14.95	8.75	H10324-ND	1.86	33.69	110.25	—	DF14-8P-1.25H(25)
9	16.20	10.00	H10326CT-ND✔†	1.69	32.50	104.00	691.60	DF14-9P-1.25H(26)
10	17.45	11.25	H10302-ND	1.72	33.13	106.00	—	DF14-10P-1.25H(25)
15	23.70	17.50	H10304-ND	2.28	43.75	140.00	—	DF14-15P-1.25H(25)
20	29.95	23.75	H10306-ND	2.63	50.63	162.00	—	DF14-20P-1.25H(25)
25	36.20	30.00	H10308-ND	3.06	58.75	188.00	—	DF14-25P-1.25H(25)
30	42.45	36.25	H10312-ND	2.96	57.38	183.60	—	DF14-30P-1.25H(25)
Tin Plating, Without Boss								
8	14.95	8.75	H1530-ND	1.67	30.25	99.00	—	DF14A-8P-1.25H(20)
9	16.20	10.00	H1531-ND	1.71	30.94	101.25	—	DF14A-9P-1.25H(20)
10	17.45	11.25	H1532-ND	1.82	33.00	108.00	—	DF14A-10P-1.25H(20)
Tin Plating, Without Boss — RoHS Compliant								
2	7.45	1.25	H10336CT-ND✔†	1.41	25.44	83.25	492.10	DF14A-2P-1.25H(26)
3	8.70	2.50	H10340-ND	1.44	26.13	85.50	—	DF14A-3P-1.25H(25)
3	8.70	2.50	H10340CT-ND✔†	1.48	26.81	87.75	518.70	DF14A-3P-1.25H(26)
4	9.95	3.75	H10342-ND	1.56	28.19	92.25	—	DF14A-4P-1.25H(25)
5	11.20	5.00	H10344-ND	1.60	28.88	94.50	—	DF14A-5P-1.25H(25)
5	11.20	5.00	H10344CT-ND✔†	1.67	30.25	99.00	585.20	DF14A-5P-1.25H(26)
6	12.45	6.25	H10346-ND	1.67	30.25	99.00	—	DF14A-6P-1.25H(25)
7	13.70	7.50	H10348CT-ND✔†	1.82	33.00	108.00	638.40	DF14A-7P-1.25H(26)
8	14.95	8.75	H10350CT-ND✔†	1.63	31.25	100.00	665.00	DF14A-8P-1.25H(26)
9	16.20	10.00	H10352CT-ND✔†	1.69	32.50	104.00	691.60	DF14A-9P-1.25H(26)
10	17.45	11.25	H10328-ND	1.72	33.13	106.00	—	DF14A-10P-1.25H(25)
10	17.45	11.25	H10328CT-ND✔†	1.76	33.75	108.00	718.20	DF14A-10P-1.25H(26)
15	23.70	17.50	H10330-ND	2.28	43.75	140.00	—	DF14A-15P-1.25H(25)
20	29.95	23.75	H10332-ND	2.63	50.63	162.00	—	DF14A-20P-1.25H(25)
25	36.20	30.00	H10334-ND	3.06	58.75	188.00	—	DF14A-25P-1.25H(25)
30	42.45	36.25	H10338-ND	2.96	57.38	183.60	—	DF14A-30P-1.25H(25)
Gold Plating, With Boss — RoHS Compliant								
2	7.45	1.25	H10311-ND	1.44	26.13	85.50	—	DF14-2P-1.25H(55)
3	8.70	2.50	H10315-ND	1.56	28.19	92.25	—	DF14-3P-1.25H(55)
3	8.70	2.50	H10315CT-ND✔†	1.52	27.50	90.00	532.00	DF14-3P-1.25H(56)
4	9.95	3.75	H10317-ND	1.63	29.56	96.75	—	DF14-4P-1.25H(55)
5	11.20	5.00	H10319-ND	1.75	31.63	103.50	—	DF14-5P-1.25H(55)
6	12.45	6.25	H10321-ND	1.82	33.00	108.00	—	DF14-6P-1.25H(55)
7	13.70	7.50	H10323CT-ND✔†	1.66	31.88	102.00	678.30	DF14-7P-1.25H(56)
8	14.95	8.75	H10325CT-ND✔†	1.72	33.13	106.00	704.90	DF14-8P-1.25H(56)
9	16.20	10.00	H10327CT-ND✔†	1.82	35.00	112.00	744.80	DF14-9P-1.25H(56)
10	17.45	11.25	H10303-ND	1.92	36.88	118.00	—	DF14-10P-1.25H(55)
15	23.70	17.50	H10305-ND	2.54	48.75	156.00	—	DF14-15P-1.25H(55)
20	29.95	23.75	H10307-ND	2.96	56.88	182.00	—	DF14-20P-1.25H(55)
25	36.20	30.00	H10309-ND	3.05	59.06	189.00	—	DF14-25P-1.25H(55)
30	42.45	36.25	H10313-ND	3.36	65.25	208.80	—	DF14-30P-1.25H(55)
Gold Plating, Without Boss — RoHS Compliant								
2	7.45	1.25	H10337-ND	1.44	26.13	85.50	—	DF14A-2P-1.25H(55)
2	7.45	1.25	H10337CT-ND✔†	1.44	26.13	85.50	505.40	DF14A-2P-1.25H(56)
3	8.70	2.50	H10341CT-ND✔†	1.52	27.50	90.00	532.00	DF14A-3P-1.25H(56)
4	9.95	3.75	H10343-ND	1.63	29.56	96.75	—	DF14A-4P-1.25H(55)
5	11.20	5.00	H10345CT-ND✔†	1.75	31.63	103.50	611.80	DF14A-5P-1.25H(56)
6	12.45	6.25	H10347-ND	1.82	33.00	108.00	—	DF14A-6P-1.25H(55)
6	12.45	6.25	H10347CT-ND✔†	1.82	33.00	108.00	638.40	DF14A-6P-1.25H(56)
7	13.70	7.50	H10349CT-ND✔†	1.66	31.88	102.00	678.30	DF14A-7P-1.25H(56)
8	14.95	8.75	H10351-ND	1.72	33.13	106.00	—	DF14A-8P-1.25H(55)
8	14.95	8.75	H10351CT-ND✔†	1.72	33.13	106.00	704.90	DF14A-8P-1.25H(56)
9	16.20	10.00	H10353CT-ND✔†	1.82	35.00	112.00	744.80	DF14A-9P-1.25H(56)
10	17.45	11.25	H10329CT-ND✔†	1.89	36.25	116.00	771.40	DF14A-10P-1.25H(56)
15	23.70	17.50	H10331-ND	2.54	48.75	156.00	—	DF14A-15P-1.25H(55)
20	29.95	23.75	H10333-ND	2.96	56.88	182.00	—	DF14A-20P-1.25H(55)
25	36.20	30.00	H10335-ND	3.05	59.06	189.00	—	DF14A-25P-1.25H(55)
30	42.45	36.25	H10339-ND	3.36	65.25	208.80	—	DF14A-30P-1.25H(55)

✔ ***NEW!***   † Cut Tape   ◊ For Tape and Reel part number, change CT-ND to TR-ND

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
Tin Plating 26-28 AWG	H1576CT-ND	.63	1.71	2.79	H1576TR-ND	11.00/M	DF14-2628SCF
Gold Plating 26-28 AWG	H1577CT-ND	1.61	4.37	7.13	H1577TR-ND	29.00/M	DF14-2628SCFA
Tin Plating 30-32 AWG	H1578CT-ND	.70	1.90	3.10	H1578TR-ND	13.00/M	DF14-3032SCF
Gold Plating 30-32 AWG	H1579CT-ND	1.61	4.37	7.13	H1579TR-ND	29.00/M	DF14-3032SCFA
Tools							
Manual Crimper for 26-28 AWG		H9949-ND			1235.00/1		DF14-2628/CR-HT
Manual Crimper for 30-32 AWG		H9948-ND			1235.00/1		DF14-3032/CR-HT

HRS
HIROSE ELECTRIC CO., LTD.

DF3 Series Single Row Connectors 2mm Pitch

(Interconnect wire available)

Specifications: • Maximum Current Capacity: 3A • Rated Voltage: 30VAC • Insulation Resistance: Minimum 1,000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Maximum 30mΩ at 0.1ADC

Fig. 1

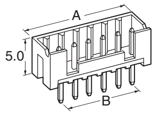

Fig. 2 — SMT

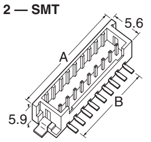

Fig. 3

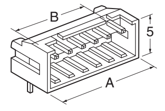

Fig. 4 — SMT

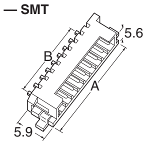

Fig. 5

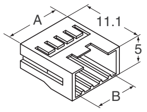

Fig. 6

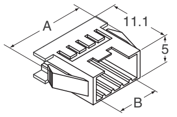

Fig. 7

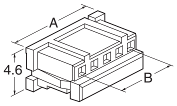

Fig. 8

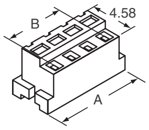

Fig. 9

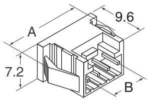

Fig. 10

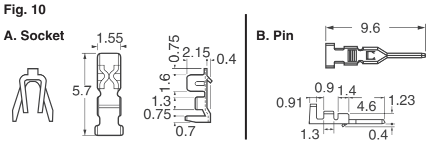
A. Socket

B. Pin

Fig.	No. of Contacts	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
PIN HEADERS Vertical – RoHS Compliant								
Tin Plating								
1	2	6	2	H2094-ND	.31	3.32	9.35	DF3A-2P-2DSA
	3	8	4	H2095-ND	.37	4.00	11.28	DF3A-3P-2DSA
	4	10	6	H2096-ND	.34	4.02	12.00	DF3A-4P-2DSA
	5	12	8	H2097-ND	.43	5.19	15.50	DF3A-5P-2DSA
	6	14	10	H2098-ND	.48	5.70	17.00	DF3A-6P-2DSA
	7	16	12	H2099-ND	.41	6.08	19.04	DF3A-7P-2DSA
	8	18	14	H2147-ND	.45	6.75	21.15	DF3A-8P-2DSA
	9	20	16	H2101-ND	.49	7.35	23.03	DF3A-9P-2DSA
	10	22	18	H2102-ND	.51	7.65	23.97	DF3A-10P-2DSA
	11	24	20	H2103-ND	.53	7.95	24.91	DF3A-11P-2DSA
	12	26	22	H2104-ND	.55	8.25	25.85	DF3A-12P-2DSA
	13	28	24	HR2021-ND	.57	8.55	26.79	DF3A-13P-2DSA
	14	30	26	HR2022-ND	.59	8.85	27.73	DF3A-14P-2DSA
	15	32	28	HR2023-ND	.62	9.23	28.91	DF3A-15P-2DSA
Gold Plating								
1	2	6	2	H3921-ND	.50	7.50	23.50	DF3-2P-2DSA(01)
	3	8	4	H3922-ND	.65	9.68	30.32	DF3-3P-2DSA(01)
	4	10	6	H3923-ND	.58	10.45	34.20	DF3-4P-2DSA(01)
	5	12	8	H3924-ND	.72	13.06	42.75	DF3-5P-2DSA(01)
	6	14	10	H3925-ND	.80	14.44	47.25	DF3-6P-2DSA(01)
	7	16	12	H3926-ND	.87	15.81	51.75	DF3-7P-2DSA(01)
	8	18	14	H3927-ND	.99	17.88	58.50	DF3-8P-2DSA(01)
	9	20	16	H3928-ND	1.10	19.94	65.25	DF3-9P-2DSA(01)
	10	22	18	H3929-ND	1.22	22.00	72.00	DF3-10P-2DSA(01)
	12	26	22	H3931-ND	1.44	26.13	85.50	DF3-12P-2DSA(01)
	14	30	26	H3933-ND	1.63	29.56	96.75	DF3-14P-2DSA(01)
	15	32	28	H3934-ND	1.75	31.63	103.50	DF3-15P-2DSA(01)
Vertical With Boss, Surface Mount – RoHS Compliant								
Tin Plating								
2	2	8.5	2	HR2000-ND	.80	14.44	47.25	DF3Z-2P-2V(20)
	3	10.5	4	HR2001-ND	.80	14.44	47.25	DF3Z-3P-2V(20)
	4	12.5	6	HR2002-ND	.84	15.13	49.50	DF3Z-4P-2V(20)
	5	14.5	8	HR2003-ND	.91	16.50	54.00	DF3Z-5P-2V(20)
	6	16.5	10	HR2019-ND	.91	16.50	54.00	DF3Z-6P-2V(20)
2	7	18.5	12	HR2004-ND	.95	17.19	56.25	DF3Z-7P-2V(20)
	8	20.5	14	HR2005-ND	.99	17.88	58.50	DF3Z-8P-2V(20)
	10	24.5	18	HR2007-ND	1.10	19.94	65.25	DF3Z-10P-2V(20)
	11	26.5	20	HR2008-ND	1.22	22.00	72.00	DF3Z-11P-2V(20)
	15	34.5	28	HR2026-ND	1.44	26.13	85.50	DF3Z-15P-2V(20)
Gold Plating								
2	2	8.5	2	HR2058-ND	.80	14.44	47.25	DF3Z-2P-2V(50)
	3	10.5	4	HR2059-ND	.91	16.50	54.00	DF3Z-3P-2V(50)
	4	12.5	6	HR2060-ND	.99	17.88	58.50	DF3Z-4P-2V(50)
	5	14.5	8	HR2061-ND	1.10	19.94	65.25	DF3Z-5P-2V(50)
	6	16.5	10	HR2062-ND	1.22	22.00	72.00	DF3Z-6P-2V(50)
	7	18.5	12	HR2063-ND	1.33	24.06	78.75	DF3Z-7P-2V(50)
	8	20.5	14	HR2064-ND	1.44	26.13	85.50	DF3Z-8P-2V(50)
	9	22.5	16	HR2065-ND	1.63	29.56	96.75	DF3Z-9P-2V(50)
	10	24.5	18	HR2066-ND	1.75	31.63	103.50	DF3Z-10P-2V(50)
	12	28.5	22	HR2068-ND	1.72	33.13	106.00	DF3Z-12P-2V(50)
	14	32.5	26	HR2070-ND	1.85	35.63	114.00	DF3Z-14P-2V(50)
	15	34.5	28	HR2071-ND	2.02	38.75	124.00	DF3Z-15P-2V(50)
Vertical Without Boss, Surface Mount – RoHS Compliant								
Tin Plating								
2	2	8.5	2	HR2072-ND	.80	14.44	47.25	DF3DZ-2P-2V(20)
	3	10.5	4	HR2073-ND	.84	15.13	49.50	DF3DZ-3P-2V(20)
	4	12.5	6	HR2074-ND	.91	16.50	54.00	DF3DZ-4P-2V(20)
	5	14.5	8	HR2075-ND	.95	17.19	56.25	DF3DZ-5P-2V(20)
	6	16.5	10	HR2076-ND	.99	17.88	58.50	DF3DZ-6P-2V(20)
	7	18.5	12	HR2077-ND	1.06	19.25	63.00	DF3DZ-7P-2V(20)
	8	20.5	14	HR2078-ND	1.10	19.94	65.25	DF3DZ-8P-2V(20)
	9	22.5	16	HR2079-ND	1.18	21.31	69.75	DF3DZ-9P-2V(20)
	10	24.5	18	HR2080-ND	1.22	22.00	72.00	DF3DZ-10P-2V(20)
	13	30.5	24	HR2083-ND	1.41	25.44	83.25	DF3DZ-13P-2V(20)
	15	34.5	28	HR2085-ND	1.52	27.50	90.00	DF3DZ-15P-2V(20)
Gold Plating								
2	2	8.5	2	HR2086-ND	.80	14.44	47.25	DF3DZ-2P-2V(50)
	3	10.5	4	HR2087-ND	.91	16.50	54.00	DF3DZ-3P-2V(50)
	4	12.5	6	HR2088-ND	.99	17.88	58.50	DF3DZ-4P-2V(50)
	5	14.5	8	HR2089-ND	1.10	19.94	65.25	DF3DZ-5P-2V(50)
	6	16.5	10	HR2090-ND	1.22	22.00	72.00	DF3DZ-6P-2V(50)
	7	18.5	12	HR2091-ND	1.33	24.06	78.75	DF3DZ-7P-2V(50)
	9	22.5	16	HR2093-ND	1.63	29.56	96.75	DF3DZ-9P-2V(50)
	10	24.5	18	HR2094-ND	1.75	31.63	103.50	DF3DZ-10P-2V(50)
	12	28.5	22	HR2096-ND	1.72	33.13	106.00	DF3DZ-12P-2V(50)
Right Angle – RoHS Compliant								
Tin Plating (pre-plated contact)								
3	2	6	2	H3893-ND	.34	3.71	10.45	DF3A-2P-2DS
	3	8	4	H3894-ND	.33	3.94	11.75	DF3A-3P-2DS
	4	10	6	H3895-ND	.38	4.52	13.50	DF3A-4P-2DS
	5	12	8	H3896-ND	.50	5.95	17.75	DF3A-5P-2DS
	6	14	10	H3897-ND	.53	6.28	18.75	DF3A-6P-2DS
	7	16	12	H3898-ND	.41	6.08	19.04	DF3A-7P-2DS
	8	18	14	H3899-ND	.54	8.03	25.15	DF3A-8P-2DS
	9	20	16	H3900-ND	.58	8.63	27.03	DF3A-9P-2DS
	10	22	18	H3901-ND	.60	9.00	28.20	DF3A-10P-2DS
	11	24	20	H3902-ND	.63	9.38	29.38	DF3A-11P-2DS
	12	26	22	H3903-ND	.65	9.75	30.55	DF3A-12P-2DS
	14	30	26	H3905-ND	.70	10.43	32.67	DF3A-14P-2DS
Gold Plating								
3	2	6	2	H3907-ND	.58	8.70	27.26	DF3-2P-2DS(01)
	3	8	4	H3908-ND	.57	10.38	33.98	DF3-3P-2DS(01)
	4	10	6	H3909-ND	.68	12.38	40.50	DF3-4P-2DS(01)
	5	12	8	H3910-ND	.84	15.13	49.50	DF3-5P-2DS(01)
	6	14	10	H3911-ND	.95	17.19	56.25	DF3-6P-2DS(01)
	7	16	12	H3912-ND	1.06	19.25	63.00	DF3-7P-2DS(01)
	8	18	14	H3913-ND	1.18	21.31	69.75	DF3-8P-2DS(01)
	9	20	16	H3914-ND	1.33	24.06	78.75	DF3-9P-2DS(01)
	10	22	18	H3915-ND	1.44	26.13	85.50	DF3-10P-2DS(01)
	11	24	20	H3916-ND	1.63	29.56	96.75	DF3-11P-2DS(01)
	15	32	28	H3920-ND	1.79	34.38	110.00	DF3-15P-2DS(01)

(Continued)

HIROSE ELECTRIC CO., LTD.

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch **(Interconnect wire available)**

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Right Angle With Boss, Surface Mount								
Tin Plating								
4	11	26.5	20	H2136-ND	1.14	20.63	67.50	DF3-11P-2H(20)
Tin Plating — RoHS Compliant								
4	2	8.5	2	HR2010-ND	.80	14.44	47.25	DF3Z-2P-2H(20)
	3	10.5	4	HR2011-ND	.80	14.44	47.25	DF3Z-3P-2H(20)
	4	12.5	6	HR2012-ND	.84	15.13	49.50	DF3Z-4P-2H(20)
	5	14.5	8	HR2013-ND	.91	16.50	54.00	DF3Z-5P-2H(20)
	6	16.5	10	HR2014-ND	.95	17.19	56.25	DF3Z-6P-2H(20)
	7	18.5	12	HR2020-ND	.95	17.19	56.25	DF3Z-7P-2H(20)
	8	20.5	14	HR2015-ND	.99	17.88	58.50	DF3Z-8P-2H(20)
	10	24.5	18	HR2016-ND	1.10	19.94	65.25	DF3Z-10P-2H(20)
	11	26.5	20	HR2017-ND	1.22	22.00	72.00	DF3Z-11P-2H(20)
	12	28.5	22	HR2018-ND	1.25	22.69	74.25	DF3Z-12P-2H(20)
	14	32.5	26	HR2028-ND	1.44	26.13	85.50	DF3Z-14P-2H(20)
	15	34.5	28	HR2029-ND	1.52	27.50	90.00	DF3Z-15P-2H(20)
Gold Plating — RoHS Compliant								
4	2	8.5	2	HR2100-ND	2.11	40.63	130.00	DF3Z-2P-2H(50)
	3	10.5	4	HR2101-ND	2.31	44.38	142.00	DF3Z-3P-2H(50)
	4	12.5	6	HR2102-ND	2.54	48.75	156.00	DF3Z-4P-2H(50)
	5	14.5	8	HR2103-ND	2.76	53.13	170.00	DF3Z-5P-2H(50)
	6	16.5	10	HR2104-ND	2.96	56.88	182.00	DF3Z-6P-2H(50)
	8	20.5	14	HR2106-ND	3.02	58.50	187.20	DF3Z-8P-2H(50)
	14	32.5	26	HR2112-ND	4.26	82.69	264.60	DF3Z-14P-2H(50)
	15	34.5	28	HR2113-ND	4.47	86.63	277.20	DF3Z-15P-2H(50)
Right Angle Without Boss, Surface Mount – RoHS Compliant								
Tin Plating								
4	2	8.5	2	HR2114-ND	.80	14.44	47.25	DF3DZ-2P-2H(20)
	3	10.5	4	HR2115-ND	.84	15.13	49.50	DF3DZ-3P-2H(20)
	4	12.5	6	HR2116-ND	.91	16.50	54.00	DF3DZ-4P-2H(20)
	5	14.5	8	HR2117-ND	.95	17.19	56.25	DF3DZ-5P-2H(20)
	6	16.5	10	HR2118-ND	.99	17.88	58.50	DF3DZ-6P-2H(20)
	7	18.5	12	HR2119-ND	1.06	19.25	63.00	DF3DZ-7P-2H(20)
	8	20.5	14	HR2120-ND	1.10	19.94	65.25	DF3DZ-8P-2H(20)
	9	22.5	16	HR2121-ND	1.18	21.31	69.75	DF3DZ-9P-2H(20)
	10	24.5	18	HR2122-ND	1.22	22.00	72.00	DF3DZ-10P-2H(20)
	11	26.5	20	HR2123-ND	1.29	23.38	76.50	DF3DZ-11P-2H(20)
	12	28.5	22	HR2124-ND	1.33	24.06	78.75	DF3DZ-12P-2H(20)
	13	30.5	24	HR2125-ND	1.41	25.44	83.25	DF3DZ-13P-2H(20)
	14	32.5	26	HR2126-ND	1.44	26.13	85.50	DF3DZ-14P-2H(20)
	15	34.5	28	HR2127-ND	1.52	27.50	90.00	DF3DZ-15P-2H(20)
Gold Plating								
4	2	8.5	2	HR2128-ND	2.11	40.63	130.00	DF3DZ-2P-2H(50)
	3	10.5	4	HR2129-ND	2.31	44.38	142.00	DF3DZ-3P-2H(50)
	4	12.5	6	HR2130-ND	2.54	48.75	156.00	DF3DZ-4P-2H(50)
	5	14.5	8	HR2131-ND	2.76	53.13	170.00	DF3DZ-5P-2H(50)
	6	16.5	10	HR2132-ND	2.96	56.88	182.00	DF3DZ-6P-2H(50)
	8	20.5	14	HR2134-ND	3.02	58.50	187.20	DF3DZ-8P-2H(50)
	9	22.5	16	HR2135-ND	3.28	63.56	203.40	DF3DZ-9P-2H(50)
	15	34.5	28	HR2141-ND	4.58	88.88	284.40	DF3DZ-15P-2H(50)
IN-LINE PLUG – RoHS Compliant (order contacts separately)								
5	2	6	2	H4035-ND	.39	4.69	14.00	DF3-2EP-2C
	3	8	4	H4036-ND	.45	5.36	16.00	DF3-3EP-2C
	4	10	6	H4037-ND	.49	5.86	17.50	DF3-4EP-2C
	5	12	8	H4038-ND	.53	6.37	19.00	DF3-5EP-2C
	6	14	10	H4039-ND	.41	6.15	19.27	DF3-6EP-2C
	7	16	12	H4040-ND	.47	6.98	21.86	DF3-7EP-2C
	8	18	14	H4041-ND	.50	7.50	23.50	DF3-8EP-2C
	10	22	18	H4043-ND	.57	8.48	26.56	DF3-10EP-2C
With Panel Lock								
6	2	11	2	H4051-ND	.47	5.61	16.75	DF3AA-2EP-2C
	3	13	4	H4052-ND	.53	6.37	19.00	DF3AA-3EP-2C
	4	15	6	H4053-ND	.41	6.15	19.27	DF3AA-4EP-2C
	5	17	8	H4054-ND	.46	6.83	21.39	DF3AA-5EP-2C
	6	19	10	H4055-ND	.49	7.35	23.03	DF3AA-6EP-2C
6	8	23	14	H4057-ND	.56	8.40	26.32	DF3AA-8EP-2C
CRIMP SOCKET – RoHS Compliant (order contacts separately)								
7	2	6	2	H2083-ND	.24	2.50	6.20	DF3-2S-2C
	3	8	4	H2084-ND	.26	2.75	6.82	DF3-3S-2C
	4	10	6	H2085-ND	.28	2.88	7.13	DF3-4S-2C
	5	12	8	H2086-ND	.29	3.12	8.80	DF3-5S-2C
	6	14	10	H2087-ND	.31	3.32	9.35	DF3-6S-2C
	7	16	12	H2088-ND	.33	3.61	10.18	DF3-7S-2C
	8	18	14	H2089-ND	.28	3.35	10.00	DF3-8S-2C
	9	20	16	H2146-ND	.30	3.60	10.75	DF3-9S-2C
	10	22	18	H2091-ND	.32	3.77	11.25	DF3-10S-2C
	11	24	20	H2092-ND	.33	3.94	11.75	DF3-11S-2C
	12	26	22	H2093-ND	.34	4.10	12.25	DF3-12S-2C
	13	28	24	H2290-ND	.36	4.27	12.75	DF3-13S-2C
	14	30	26	H2291-ND	.37	4.44	13.25	DF3-14S-2C
	15	32	28	H2292-ND	.38	4.52	13.50	DF3-15S-2C
Tin Plating								
8	2	6	2	HR2030-ND	.80	14.44	47.25	DF3-2S-2DSA(25)
	3	8	4	HR2031-ND	.95	17.19	56.25	DF3-3S-2DSA(25)
	4	10	6	HR2032-ND	1.06	19.25	63.00	DF3-4S-2DSA(25)
	5	12	8	HR2033-ND	1.22	22.00	72.00	DF3-5S-2DSA(25)
	6	14	10	HR2034-ND	1.33	24.06	78.75	DF3-6S-2DSA(25)
	7	16	12	HR2035-ND	1.44	26.13	85.50	DF3-7S-2DSA(25)
	9	20	16	HR2037-ND	1.79	32.31	105.75	DF3-9S-2DSA(25)
	10	22	18	HR2038-ND	1.63	31.25	100.00	DF3-10S-2DSA(25)
	11	24	20	HR2039-ND	1.72	33.13	106.00	DF3-11S-2DSA(25)
	14	30	26	HR2042-ND	2.11	40.63	130.00	DF3-14S-2DSA(25)
Gold Plating								
8	2	6	2	HR2044-ND	.95	17.19	56.25	DF3-2S-2DSA(55)
	3	8	4	HR2045-ND	1.22	22.00	72.00	DF3-3S-2DSA(55)
	4	10	6	HR2046-ND	1.41	25.44	83.25	DF3-4S-2DSA(55)
	5	12	8	HR2047-ND	1.63	29.56	96.75	DF3-5S-2DSA(55)
	6	14	10	HR2048-ND	1.82	33.00	108.00	DF3-6S-2DSA(55)
	9	20	16	HR2051-ND	2.15	41.25	132.00	DF3-9S-2DSA(55)
	10	22	18	HR2052-ND	2.34	45.00	144.00	DF3-10S-2DSA(55)
	12	26	22	HR2054-ND	2.73	52.50	168.00	DF3-12S-2DSA(55)
	14	30	26	HR2056-ND	3.12	60.00	192.00	DF3-14S-2DSA(55)
ADAPTER IN-LINE WITH PANEL LOCK – RoHS Compliant								
9	2	11	2	H4019-ND	.71	12.79	41.85	DF3-2EP-2A
	3	13	4	H4021-ND	.79	14.23	46.58	DF3-3EP-2A
	4	15	6	H4022-ND	.87	15.74	51.53	DF3-4EP-2A
	5	17	8	H4023-ND	.95	17.26	56.48	DF3-5EP-2A

Crimping Contacts

AWG	Digi-Key Part No.	Bulk Pricing 100	Hirose Part No.	Cut Tape* Pricing		T & R† Pricing 10,000	Hirose Part No.
				100	500		
Socket Contacts - Fig. 10A							
Tin Plating							
22	H4066-ND	6.88	DF3-22SC	7.98	27.55	18.00/M	DF3-22SCF
24-28	H1500-ND	7.44	DF3-2428SC	7.70	26.60	10.00/M	DF3-2428SCF
Gold Plating							
24-28	H1501-ND	10.50	DF3-2428SCC	11.50	41.40	36.00/M	DF3-2428SCFC
Plug Contacts - Fig. 10B							
Tin Plating							
24-28	H1502-ND	8.25	DF3-EP2428PC	9.35	32.30	18.00/M	DF3-EP2428PCF
Gold Plating							
24-28	H1503-ND	20.92	DF3-EP2428PCA	21.86	79.05	54.00/M	DF3-EP2428PCFA

* For Cut Tape, change -ND to CT-ND.
† For Tape and Reel, change -ND to TR-ND.

Tools

AWG	Description	Digi-Key Part No.	Price Each	Hirose Part No.
22	Hand Crimp Tool for Socket, with Non-Removeable Die	H4454-ND	887.90	DF3-TA22-HC
24-28	Hand Crimp Tool for Socket, with Non-Removeable Die	H9997-ND	591.85	DF3-TA2428HC
24-28	Hand Crimp Tool for Pin, with Non-Removeable Die	H2308-ND	865.80	DF3EP-TA2428HC
—	Hand Tool without Die Set	H9926-ND	344.47	HRUS-HT-1

HIROSE ELECTRIC CO., LTD.

DF11 Series Dual Row Connectors

2mm Pitch *(Interconnect wire available)*

Specifications:

- Current Capacity: 2A with 24AWG cable
- Rated Voltage: 250VAC
- Insulation Resistance: Minimum 1000MΩ at 500VDC
- Withstand Voltage: 650VAC
- Contact Resistance: Maximum 30mΩ at 100mA

Fig. 1

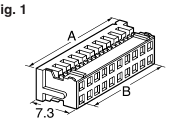

Fig. 2

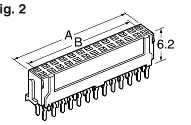

Fig. 3 — Surface Mount

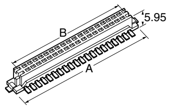

Fig. 4

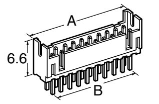

Fig. 5

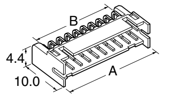

Fig. 6 — Surface Mount

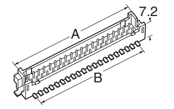

Fig. 7

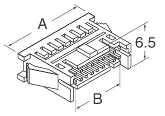

Fig. 8

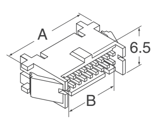

Fig. 9

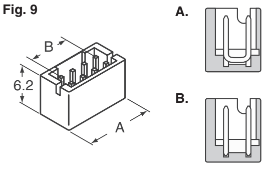

Fig. 10 — Socket

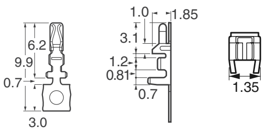

Fig. 11 — Pin

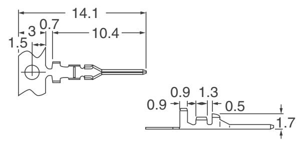

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket								
1	4	6.0	2.0	H2019-ND	.29	3.43	10.25	DF11-4DS-2C
	6	8.0	4.0	H2021-ND	.31	3.69	11.00	DF11-6DS-2C
	8	10.0	6.0	H2022-ND	.36	4.36	13.00	DF11-8DS-2C
	10	12.0	8.0	H2023-ND	.36	4.36	13.00	DF11-10DS-2C
	12	14.0	10.0	H2024-ND	.39	4.69	14.00	DF11-12DS-2C
	14	16.0	12.0	H2140-ND	.42	5.03	15.00	DF11-14DS-2C
	16	18.0	14.0	H2025-ND	.45	5.36	16.00	DF11-16DS-2C
	18	20.0	16.0	H2026-ND	.47	5.61	16.75	DF11-18DS-2C
	20	22.0	18.0	H2027-ND	.49	5.86	17.50	DF11-20DS-2C
	22	24.0	20.0	H2028-ND	.52	6.20	18.50	DF11-22DS-2C
	24	26.0	22.0	H2029-ND	.55	6.53	19.50	DF11-24DS-2C
	26	28.0	24.0	H2261-ND	.41	6.15	19.27	DF11-26DS-2C
	28	30.0	26.0	H2262-ND	.44	6.60	20.68	DF11-28DS-2C
	30	32.0	28.0	H2263-ND	.48	7.13	22.33	DF11-30DS-2C
	32	34.0	30.0	H2264-ND	.53	7.95	24.91	DF11-32DS-2C
Vertical PCB Socket, Tin								
2	6	8.0	4.0	H10169-ND	1.03	18.56	60.75	DF11-6DS-2DSA(05)
	8	10.0	6.0	H10170-ND	1.10	19.94	65.25	DF11-8DS-2DSA(05)
	10	12.0	8.0	H10171-ND	1.18	21.31	69.75	DF11-10DS-2DSA(05)
	12	14.0	10.0	H10172-ND	1.29	23.38	76.50	DF11-12DS-2DSA(05)
	14	16.0	12.0	H10173-ND	1.37	24.75	81.00	DF11-14DS-2DSA(05)
	16	18.0	14.0	H10174-ND	1.52	27.50	90.00	DF11-16DS-2DSA(05)
	18	20.0	16.0	H10175-ND	1.60	28.88	94.50	DF11-18DS-2DSA(05)
	20	22.0	18.0	H10176-ND	1.75	31.63	103.50	DF11-20DS-2DSA(05)
	22	24.0	20.0	H10177-ND	1.86	33.69	110.25	DF11-22DS-2DSA(05)
	24	26.0	22.0	H10178-ND	1.66	31.88	102.00	DF11-24DS-2DSA(05)
	26	28.0	24.0	H10179-ND	1.76	33.75	108.00	DF11-26DS-2DSA(05)
	28	30.0	26.0	H10180-ND	1.85	35.63	114.00	DF11-28DS-2DSA(05)
	30	32.0	28.0	H10181-ND	1.92	36.88	118.00	DF11-30DS-2DSA(05)
	32	34.0	30.0	H10182-ND	2.02	38.75	124.00	DF11-32DS-2DSA(05)
Vertical PCB Socket, Gold								
2	6	8.0	4.0	H10183-ND	1.60	28.88	94.50	DF11-6DS-2DSA(06)
	8	10.0	6.0	H10184-ND	1.63	31.25	100.00	DF11-8DS-2DSA(06)
	10	12.0	8.0	H10185-ND	1.85	35.63	114.00	DF11-10DS-2DSA(06)
	12	14.0	10.0	H10186-ND	2.11	40.63	130.00	DF11-12DS-2DSA(06)
	14	16.0	12.0	H10187-ND	2.37	45.63	146.00	DF11-14DS-2DSA(06)
	16	18.0	14.0	H10188-ND	2.67	51.25	164.00	DF11-16DS-2DSA(06)
	18	20.0	16.0	H10189-ND	2.93	56.25	180.00	DF11-18DS-2DSA(06)
	20	22.0	18.0	H10190-ND	3.22	61.88	198.00	DF11-20DS-2DSA(06)
	22	24.0	20.0	H10191-ND	3.07	59.63	190.80	DF11-22DS-2DSA(06)
	24	26.0	22.0	H10192-ND	3.31	64.13	205.20	DF11-24DS-2DSA(06)
	26	28.0	24.0	H10193-ND	3.54	68.63	219.60	DF11-26DS-2DSA(06)
	28	30.0	26.0	H10194-ND	3.77	73.13	234.00	DF11-28DS-2DSA(06)
	30	32.0	28.0	H10195-ND	4.00	77.63	248.40	DF11-30DS-2DSA(06)
	32	34.0	30.0	H10196-ND	4.23	82.13	262.80	DF11-32DS-2DSA(06)

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Surface Mount Vertical Socket, Tin								
3	4	8.5	2.0	H10197-ND	1.06	19.25	63.00	DF11Z-4DS-2V(20)
	6	10.5	4.0	H10198-ND	1.18	21.31	69.75	DF11Z-6DS-2V(20)
	8	12.5	6.0	H10199CT-ND✔†	1.48	26.81	87.75	DF11Z-8DS-2V(22)
	8	12.5	6.0	H10199TR-ND✔‡		312.00/500		DF11Z-8DS-2V(22)
	10	14.5	8.0	H10200-ND	1.41	25.44	83.25	DF11Z-10DS-2V(20)
	12	16.5	10.0	H10201-ND	1.56	28.19	92.25	DF11Z-12DS-2V(20)
	14	18.5	12.0	H10202-ND	1.67	30.25	99.00	DF11Z-14DS-2V(20)
	16	20.5	14.0	H10203-ND	1.86	33.69	110.25	DF11Z-16DS-2V(20)
	18	22.5	16.0	H10204CT-ND✔†	1.76	33.75	108.00	DF11Z-18DS-2V(22)
	18	22.5	16.0	H10204TR-ND✔‡		405.00/500		DF11Z-18DS-2V(22)
	20	24.5	18.0	H10205-ND	1.82	35.00	112.00	DF11Z-20DS-2V(20)
	24	28.5	22.0	H10207-ND	2.11	40.63	130.00	DF11Z-24DS-2V(20)
	26	30.5	24.0	H10208-ND	2.31	44.38	142.00	DF11Z-26DS-2V(20)
	30	34.5	28.0	H10210-ND	2.54	48.75	156.00	DF11Z-30DS-2V(20)
	32	36.5	30.0	H10211-ND	2.67	51.25	164.00	DF11Z-32DS-2V(20)
	40	44.5	38.0	H10212-ND	2.93	56.81	181.80	DF11Z-40DS-2V(20)
Surface Mount Vertical Socket, Gold								
3	4	8.5	2.0	H10213-ND	1.63	29.56	96.75	DF11Z-4DS-2V(50)
	6	10.5	4.0	H10214-ND	1.63	31.25	100.00	DF11Z-6DS-2V(50)
	8	12.5	6.0	H10215-ND	1.92	36.88	118.00	DF11Z-8DS-2V(50)
	8	12.5	6.0	H10215CT-ND✔†	1.72	33.13	106.00	DF11Z-8DS-2V(52)
	8	12.5	6.0	H10215TR-ND✔‡		397.50/500		DF11Z-8DS-2V(52)
	10	14.5	8.0	H10216-ND	2.15	41.25	132.00	DF11Z-10DS-2V(50)
	12	16.5	10.0	H10217-ND	2.44	46.88	150.00	DF11Z-12DS-2V(50)
	14	18.5	12.0	H10218-ND	2.67	51.25	164.00	DF11Z-14DS-2V(50)
	14	18.5	12.0	H10218CT-ND✔†	2.08	40.00	128.00	DF11Z-14DS-2V(54)
	14	18.5	12.0	H10218TR-ND✔‡		480.00/500		DF11Z-14DS-2V(54)
	16	20.5	14.0	H10219-ND	2.96	56.88	182.00	DF11Z-16DS-2V(50)
	18	22.5	16.0	H10220-ND	3.25	62.50	200.00	DF11Z-18DS-2V(50)
	20	24.5	18.0	H10221-ND	3.10	60.19	192.60	DF11Z-20DS-2V(50)
	22	26.5	20.0	H10222-ND	3.42	66.38	212.40	DF11Z-22DS-2V(50)
	24	28.5	22.0	H10223-ND	3.65	70.88	226.80	DF11Z-24DS-2V(50)
	26	30.5	24.0	H10224-ND	3.97	77.06	246.60	DF11Z-26DS-2V(50)
	30	34.5	28.0	H10226-ND	4.52	87.75	280.80	DF11Z-30DS-2V(50)
	32	36.5	30.0	H10227-ND	4.73	91.69	293.40	DF11Z-32DS-2V(50)
	40	44.5	38.0	H10228CT-ND✔†	4.32	83.81	268.20	DF11Z-40DS-2V(52)
	40	44.5	38.0	H10228TR-ND✔‡		1005.75/500		DF11Z-40DS-2V(52)
Vertical Protected Header, Tin								
4	4	6.0	2.0	H10229-ND	.60	9.00	28.20	DF11-4DP-2DSA(24)
	6	8.0	4.0	H10230-ND	.66	9.90	31.02	DF11-6DP-2DSA(24)
	8	10.0	6.0	H10231-ND	.57	10.31	33.75	DF11-8DP-2DSA(24)
	10	12.0	8.0	H10232-ND	.65	11.69	38.25	DF11-10DP-2DSA(24)
	12	14.0	10.0	H10233-ND	.72	13.06	42.75	DF11-12DP-2DSA(24)
	14	16.0	12.0	H10234-ND	.84	15.13	49.50	DF11-14DP-2DSA(24)
	16	18.0	14.0	H10235-ND	.87	15.81	51.75	DF11-16DP-2DSA(24)
	18	20.0	16.0	H10236-ND	.95	17.19	56.25	DF11-18DP-2DSA(24)
	20	22.0	18.0	H10237-ND	1.10	19.94	65.25	DF11-20DP-2DSA(24)
	22	24.0	20.0	H10238-ND	1.18	21.31	69.75	DF11-22DP-2DSA(24)
	24	26.0	22.0	H10239-ND	1.22	22.00	72.00	DF11-24DP-2DSA(24)
	26	28.0	24.0	H10240-ND	1.33	24.06	78.75	DF11-26DP-2DSA(24)
	28	30.0	26.0	H10241-ND	1.41	25.44	83.25	DF11-28DP-2DSA(24)
	30	32.0	28.0	H10242-ND	1.44	26.13	85.50	DF11-30DP-2DSA(24)
	32	34.0	30.0	H10243-ND	1.52	27.50	90.00	DF11-32DP-2DSA(24)
Vertical Protected Header, Gold								
4	4	6.0	2.0	H2850-ND	.72	13.06	42.75	DF11-4DP-2DSA(01)
	6	8.0	4.0	H2851-ND	.91	16.50	54.00	DF11-6DP-2DSA(01)
	8	10.0	6.0	H2852-ND	1.14	20.63	67.50	DF11-8DP-2DSA(01)
	10	12.0	8.0	H2853-ND	1.33	24.06	78.75	DF11-10DP-2DSA(01)
	12	14.0	10.0	H2854-ND	1.56	28.19	92.25	DF11-12DP-2DSA(01)
	14	16.0	12.0	H2855-ND	1.75	31.63	103.50	DF11-14DP-2DSA(01)
	16	18.0	14.0	H2856-ND	1.69	32.50	104.00	DF11-16DP-2DSA(01)
	18	20.0	16.0	H2857-ND	1.85	35.63	114.00	DF11-18DP-2DSA(01)
	20	22.0	18.0	H2858-ND	2.05	39.38	126.00	DF11-20DP-2DSA(01)
	22	24.0	20.0	H2859-ND	2.24	43.13	138.00	DF11-22DP-2DSA(01)
	24	26.0	22.0	H2860-ND	2.41	46.25	148.00	DF11-24DP-2DSA(01)
	26	28.0	24.0	H2861-ND	2.60	50.00	160.00	DF11-26DP-2DSA(01)
	28	30.0	26.0	H2862-ND	2.76	53.13	170.00	DF11-28DP-2DSA(01)
	30	32.0	28.0	H2863-ND	2.93	56.25	180.00	DF11-30DP-2DSA(01)
	32	34.0	30.0	H2864-ND	3.12	60.00	192.00	DF11-32DP-2DSA(01)
Right Angle Protected Header, Tin								
5	4	6.0	2.0	H10244-ND	.66	9.90	31.02	DF11-4DP-2DS(24)
	6	8.0	4.0	H10245-ND	.62	11.14	36.45	DF11-6DP-2DS(24)
	8	10.0	6.0	H10246-ND	.67	12.10	39.60	DF11-8DP-2DS(24)
	10	12.0	8.0	H10247-ND	.84	15.13	49.50	DF11-10DP-2DS(24)
	12	14.0	10.0	H10248-ND	.95	17.19	56.25	DF11-12DP-2DS(24)
	14	16.0	12.0	H10249-ND	1.06	19.25	63.00	DF11-14DP-2DS(24)
	16	18.0	14.0	H10250-ND	1.33	24.06	78.75	DF11-16DP-2DS(24)
	18	20.0	16.0	H10251-ND	1.33	24.06	78.75	DF11-18DP-2DS(24)
	20	22.0	18.0	H10252-ND	1.52	27.50	90.00	DF11-20DP-2DS(24)
	22	24.0	20.0	H10253-ND	1.63	29.56	96.75	DF11-22DP-2DS(24)
	24	26.0	22.0	H10254-ND	1.82	33.00	108.00	DF11-24DP-2DS(24)
	26	28.0	24.0	H10255-ND	1.63	31.25	100.00	DF11-26DP-2DS(24)
	28	30.0	26.0	H10256-ND	1.72	33.13	106.00	DF11-28DP-2DS(24)
	30	32.0	28.0	H10257-ND	1.82	35.00	112.00	DF11-30DP-2DS(24)
	32	34.0	30.0	H10258-ND	1.95	37.50	120.00	DF11-32DP-2DS(24)
Right Angle Protected Header, Gold								
5	4	6.0	2.0	H2865-ND	1.10	19.94	65.25	DF11-4DP-2DS(52)
	6	8.0	4.0	H2866-ND	1.41	25.44	83.25	DF11-6DP-2DS(52)
	8	10.0	6.0	H2867-ND	1.79	32.31	105.75	DF11-8DP-2DS(52)
	10	12.0	8.0	H2868-ND	1.76	33.75	108.00	DF11-10DP-2DS(52)
	12	14.0	10.0	H2869-ND	2.05	39.38	126.00	DF11-12DP-2DS(52)
	14	16.0	12.0	H2870-ND	2.31	44.38	142.00	DF11-14DP-2DS(52)
	16	18.0	14.0	H2871-ND	2.63	50.63	162.00	DF11-16DP-2DS(52)
	18	20.0	16.0	H2872-ND	2.86	55.00	176.00	DF11-18DP-2DS(52)

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(Continued)

HIROSE ELECTRIC CO., LTD.

DF11 Series Dual Row Connectors

2mm Pitch *(Interconnect wire available) (Cont.)*

Fig.	No. of Pins	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
5	20	22.0	18.0	H2873-ND	3.15	60.63	194.00	DF11-20DP-2DS(52)
	22	24.0	20.0	H2874-ND	3.07	59.63	190.80	DF11-22DP-2DS(52)
	24	26.0	22.0	H2875-ND	3.34	64.69	207.00	DF11-24DP-2DS(52)
	26	28.0	24.0	H2876-ND	3.60	69.75	223.20	DF11-26DP-2DS(52)
	28	30.0	26.0	H2877-ND	3.80	73.69	235.80	DF11-28DP-2DS(52)
	30	32.0	28.0	H2878-ND	4.06	78.75	252.00	DF11-30DP-2DS(52)
	32	34.0	30.0	H2879-ND	4.26	82.69	264.60	DF11-32DP-2DS(52)
Surface Mount Protected Header, Tin								
6	4	8.5	2.0	H10259-ND	1.22	22.00	72.00	DF11GZ-4DP-2V(20)
	6	10.5	4.0	H10260-ND	1.33	24.06	78.75	DF11GZ-6DP-2V(20)
	8	12.5	6.0	H10261-ND	1.44	26.13	85.50	DF11GZ-8DP-2V(20)
	10	14.5	8.0	H10262-ND	1.56	28.19	92.25	DF11GZ-10DP-2V(20)
	12	16.5	10.0	H10263-ND	1.67	30.25	99.00	DF11GZ-12DP-2V(20)
	14	18.5	12.0	H10264-ND	1.79	32.31	105.75	DF11GZ-14DP-2V(20)
	16	20.5	14.0	H10265-ND	1.63	31.25	100.00	DF11GZ-16DP-2V(20)
	18	22.5	16.0	H10266-ND	1.72	33.13	106.00	DF11GZ-18DP-2V(20)
	20	24.5	18.0	H10267-ND	1.82	35.00	112.00	DF11GZ-20DP-2V(20)
	22	26.5	20.0	H10268-ND	1.95	37.50	120.00	DF11GZ-22DP-2V(20)
	24	28.5	22.0	H10269-ND	2.05	39.38	126.00	DF11GZ-24DP-2V(20)
	26	30.5	24.0	H10270-ND	2.21	42.50	136.00	DF11GZ-26DP-2V(20)
	28	32.5	26.0	H10271-ND	2.34	45.00	144.00	DF11GZ-28DP-2V(20)
	30	34.5	28.0	H10272-ND	2.44	46.88	150.00	DF11GZ-30DP-2V(20)
	32	36.5	30.0	H10273-ND	2.54	48.75	156.00	DF11GZ-32DP-2V(20)
	40	44.5	38.0	H10274-ND	3.06	58.75	188.00	DF11GZ-40DP-2V(20)
Surface Mount Protected Header, Gold								
6	4	8.5	2.0	H2897-ND	1.79	32.31	105.75	DF11G-4DP-2V(50)
	6	10.5	4.0	H2898-ND	1.72	33.13	106.00	DF11G-6DP-2V(50)
	8	12.5	6.0	H2899-ND	1.95	37.50	120.00	DF11G-8DP-2V(50)
	10	14.5	8.0	H2900-ND	2.21	42.50	136.00	DF11G-10DP-2V(50)
	12	16.5	10.0	H2901-ND	2.47	47.50	152.00	DF11G-12DP-2V(50)
	14	18.5	12.0	H2902-ND	2.67	51.25	164.00	DF11G-14DP-2V(50)
	16	20.5	14.0	H2903-ND	2.96	56.88	182.00	DF11G-16DP-2V(50)
	18	22.5	16.0	H2904-ND	3.15	60.63	194.00	DF11G-18DP-2V(50)
	20	24.5	18.0	H2905-ND	3.02	58.50	187.20	DF11G-20DP-2V(50)
	22	26.5	20.0	H2906-ND	3.34	64.69	207.00	DF11G-22DP-2V(50)
	24	28.5	22.0	H2907-ND	3.60	69.75	223.20	DF11G-24DP-2V(50)
	26	30.5	24.0	H2908-ND	3.92	75.94	243.00	DF11G-26DP-2V(50)
	28	32.5	26.0	H2909-ND	3.83	74.25	237.60	DF11G-28DP-2V(50)
	28	32.5	26.0	H2909CT-ND✔†	3.68	71.44	228.60	DF11-28DP-2V(57)
	28	32.5	26.0	H2909TR-ND✔‡		857.25/500		DF11-28DP-2V(57)
	30	34.5	28.0	H2910-ND	4.38	84.94	271.80	DF11G-30DP-2V(50)
	32	36.5	30.0	H2911-ND	4.58	88.88	284.40	DF11G-32DP-2V(50)
	40	44.5	38.0	H2912-ND	5.68	110.25	352.80	DF11G-40DP-2V(50)
Connector Plug Housing								
7	4	11.0	2.0	H2913-ND	.51	7.65	23.97	DF11-4DEP-2C
	6	13.0	4.0	H2914-ND	.53	7.95	24.91	DF11-6DEP-2C
	8	15.0	6.0	H2915-ND	.55	8.25	25.85	DF11-8DEP-2C
	10	17.0	8.0	H2916-ND	.58	8.63	27.03	DF11-10DEP-2C
	12	19.0	10.0	H2917-ND	.60	8.93	27.97	DF11-12DEP-2C
	14	21.0	12.0	H2918-ND	.62	9.30	29.14	DF11-14DEP-2C
	16	23.0	14.0	H2919-ND	.64	9.60	30.08	DF11-16DEP-2C
	18	25.0	16.0	H2920-ND	.66	9.90	31.02	DF11-18DEP-2C
	20	27.0	18.0	H2921-ND	.68	10.20	31.96	DF11-20DEP-2C
	22	29.0	20.0	H2922-ND	.71	10.58	33.14	DF11-22DEP-2C
	24	31.0	22.0	H2923-ND	.74	11.03	34.55	DF11-24DEP-2C
	26	33.0	24.0	H2924-ND	.57	10.38	33.98	DF11-26DEP-2C
	28	35.0	26.0	H2925-ND	.59	10.66	34.88	DF11-28DEP-2C
	30	37.0	28.0	H2926-ND	.60	10.93	35.78	DF11-30DEP-2C
	32	39.0	30.0	H2927-ND	.62	11.21	36.68	DF11-32DEP-2C
In-Line Adaptor								
8	4	9.2	2.0	H2928-ND	.68	12.38	40.50	DF11-4DEP-2A
	6	11.2	4.0	H2929-ND	.76	13.75	45.00	DF11-6DEP-2A
	8	13.2	6.0	H2930-ND	.87	15.81	51.75	DF11-8DEP-2A
	10	15.2	8.0	H2931-ND	.95	17.19	56.25	DF11-10DEP-2A
	12	17.2	10.0	H2932-ND	1.03	18.56	60.75	DF11-12DEP-2A
	14	19.2	12.0	H2933-ND	1.18	21.31	69.75	DF11-14DEP-2A
	16	21.2	14.0	H2934-ND	1.25	22.69	74.25	DF11-16DEP-2A
	20	25.2	18.0	H2936-ND	1.48	26.81	87.75	DF11-20DEP-2A
	24	29.2	22.0	H2938-ND	1.67	30.25	99.00	DF11-24DEP-2A
Connector Shorting Jumpers								
9A	4	6.6	2.0	H10275-ND	.68	10.13	31.73	DF11-4DP-SP1(05)
	8	10.6	6.0	H10277-ND	.59	10.73	35.10	DF11-8DP-SP1(05)
9B	8	10.6	6.0	H10280-ND	.87	15.81	51.75	DF11-8DP-SP2(05)

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Crimping Contacts

Fig.	AWG	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Digi-Key Part No.	Tape & Reel Pricing 10,000	Hirose Part No.
Socket Contacts							
Tin Plating							
10	22	H2950-ND	7.98	DF11-22SC	H2950TR-ND	19.00/M	DF11-22SCF
	24-28	H1504-ND	6.88	DF11-2428SC	H1504TR-ND	11.00/M	DF11-2428SCF
	30	H2954-ND	7.70	DF11-30SC	H2954TR-ND	19.00/M	DF11-30SCF
Gold Plating							
10	22	H2953-ND	12.25	DF11-22SCA	—	—	—
	24-28	H1505-ND	12.25	DF11-2428SCA	H1505TR-ND	45.00/M	DF11-2428SCFA
	30	H2951-ND	11.50	DF11-30SCA	—	—	—
Pin Contacts							
Tin Plating							
11	24-28	H1506-ND	9.35	DF11-EP2428PC	H1506TR-ND	20.00/M	DF11-EP2428PCF
Gold Plating							
11	24-28	H1507-ND	12.75	DF11-EP2428PCA	—	—	—

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Hand Crimp Tools			
Hand Tool without Die Set	H9926-ND	344.47	HRUS-HT-1
22AWG, for Socket with Non-Removeable Die	H9954-ND	658.35	DF11-TA22HC
24-28AWG, for Socket with Non-Removeable Die	H9995-ND	591.85	DF11-TA2428HC
30AWG, for Socket with Non-Removeable Die	H9955-ND	887.90	DF11-TA30HC
24-28AWG, for Pin with Non-Removeable Die	H2304-ND	887.90	DF11EP-TA2428HC
Extraction Tool			
Tool for DF11 Socket	H9996-ND	3.16	DF-C-PO(B)

A3 and A4 Series Crimp Connector

2mm Pitch

Specifications: • Current Rating: 1A • Voltage Rating: 200VAC • Operating Temperature: -55°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ minimum at 500VDC • Withstanding Voltage: 650VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 15mΩ maximum @ 0.1A

Applications: • VTR • Vehicle telephones • Various electronic equipment

Materials: • Insulator Pin Header: black polyamide, UL 94V-0 • Insulator Receptacle: black PBT, UL 94V-0 • Insulator Pin Header (SMT) and Receptacle (SMT): light brown PPS • Insulator Crimping Socket: black PBT • Pin Header Contact: Brass with selective gold plating • Receptacle and Crimping Contact: Phosphor bronze with selective gold plating

Fig. 1

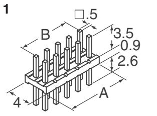

Fig. 2

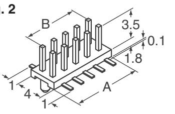

Fig. 3

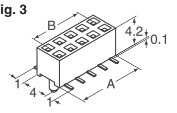

Fig. 4

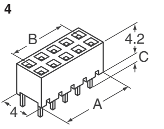

Fig. 5

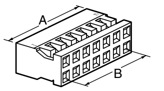

A3B

Fig. 6

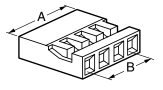

A4B

Fig. 7

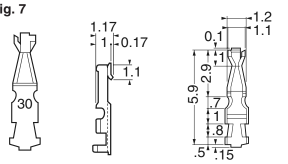

Fig. 8 ***Note:*** For use with all series.

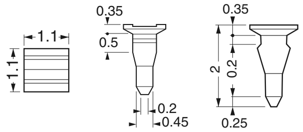

Fig.	No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
Pin Header								
Low Profile – Gold Plating — RoHS Compliant								
1	2	2.0	—	H1807-ND	.63	9.38	29.38	A3C-2P-2DSA
	4	4.0	2.0	H1808-ND	.68	12.38	40.50	A3C-4P-2DSA
	6	6.0	4.0	H1809-ND	.95	17.19	56.25	A3C-6P-2DSA
	8	8.0	6.0	H1810-ND	1.14	20.63	67.50	A3C-8P-2DSA
	10	10.0	8.0	H1811-ND	1.48	26.81	87.75	A3C-10P-2DSA
	12	12.0	10.0	H1812-ND	1.82	33.00	108.00	A3C-12P-2DSA
	14	14.0	12.0	H1813-ND	1.66	31.88	102.00	A3C-14P-2DSA
	16	16.0	14.0	H1814-ND	2.02	38.75	124.00	A3C-16P-2DSA
	18	18.0	16.0	H1815-ND	2.11	40.63	130.00	A3C-18P-2DSA
	20	20.0	18.0	H1816-ND	2.96	56.88	182.00	A3C-20P-2DSA
	24	24.0	22.0	H1818-ND	3.12	60.00	192.00	A3C-24P-2DSA
	26	26.0	24.0	H1819-ND	3.19	61.25	196.00	A3C-26P-2DSA
	28	28.0	26.0	H1820-ND	3.22	61.88	198.00	A3C-28P-2DSA
	32	32.0	30.0	H1821-ND	4.58	88.88	284.40	A3C-32P-2DSA
	44	44.0	42.0	H1822-ND	4.58	88.88	284.40	A3C-44P-2DSA
	48	48.0	46.0	H1823-ND	4.58	88.88	284.40	A3C-48P-2DSA
	50	50.0	48.0	H1824-ND	4.58	88.88	284.40	A3C-50P-2DSA
Without Boss – Gold Plating								
2	16	16.0	14.0	H1787-ND	1.82	35.00	112.00	A3-16PA-2SV
Without Boss – Gold Plating — RoHS Compliant								
2	4	4.0	2.0	H10934-ND	1.41	25.44	83.25	A3-4PA-2SV(71)
	6	6.0	4.0	H10935-ND	1.63	29.56	96.75	A3-6PA-2SV(71)
	8	8.0	6.0	H10936-ND	1.63	31.25	100.00	A3-8PA-2SV(71)
	10	10.0	8.0	H10937-ND	1.72	33.13	106.00	A3-10PA-2SV(71)
	12	12.0	10.0	H10938-ND	1.95	37.50	120.00	A3-12PA-2SV(71)
	14	14.0	12.0	H10939-ND	2.05	39.38	126.00	A3-14PA-2SV(71)
	16	16.0	14.0	H10940-ND	2.28	43.75	140.00	A3-16PA-2SV(71)
	20	20.0	18.0	H10941-ND	2.60	50.00	160.00	A3-20PA-2SV(71)
	24	24.0	22.0	H10942-ND	3.15	60.63	194.00	A3-24PA-2SV(71)
	28	28.0	26.0	H10943-ND	3.25	63.00	201.60	A3-28PA-2SV(71)
	32	32.0	30.0	H10944-ND	3.63	70.31	225.00	A3-32PA-2SV(71)
	44	44.0	42.0	H10945-ND	5.08	98.44	315.00	A3-44PA-2SV(71)
	50	50.0	48.0	H10946-ND	5.80	112.50	360.00	A3-50PA-2SV(71)
With Boss – Gold Plating								
2	32	32.0	30.0	H1804-ND	2.96	57.38	183.60	A3A-32PA-2SV
With Boss – Gold Plating — RoHS Compliant								
2	4	4.0	2.0	H10947-ND	1.44	26.13	85.50	A3A-4PA-2SV(71)
	6	6.0	4.0	H10948-ND	1.63	29.56	96.75	A3A-6PA-2SV(71)
	8	8.0	6.0	H10949-ND	1.63	31.25	100.00	A3A-8PA-2SV(71)
	10	10.0	8.0	H10950-ND	1.72	33.13	106.00	A3A-10PA-2SV(71)
	12	12.0	10.0	H10951-ND	1.95	37.50	120.00	A3A-12PA-2SV(71)
	14	14.0	12.0	H10952-ND	2.05	39.38	126.00	A3A-14PA-2SV(71)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

A3 and A4 Series Crimp Connector
2mm Pitch *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
2	16	16.0	14.0	H10953-ND	2.28	43.75	140.00	A3A-16PA-2SV(71)
	20	20.0	18.0	H10954-ND	2.60	50.00	160.00	A3A-20PA-2SV(71)
	24	24.0	22.0	H10955-ND	2.90	56.25	180.00	A3A-24PA-2SV(71)
	32	32.0	30.0	H10957-ND	3.63	70.31	225.00	A3A-32PA-2SV(71)
	44	44.0	42.0	H10958-ND	5.08	98.44	315.00	A3A-44PA-2SV(71)
	50	50.0	48.0	H10959-ND	5.80	112.50	360.00	A3A-50PA-2SV(71)
Receptacle								
Without Boss – Gold Plating								
3	24	24.0	22.0	H1835-ND	2.47	47.50	152.00	A3-24DA-2SV
Without Boss – Gold Plating — RoHS Compliant								
3	4	4.0	2.0	H10960-ND	.95	17.19	56.25	A3-4DA-2SV(71)
	6	6.0	4.0	H10961-ND	1.10	19.94	65.25	A3-6DA-2SV(71)
	8	8.0	6.0	H10962-ND	1.29	23.38	76.50	A3-8DA-2SV(71)
	10	10.0	8.0	H10963-ND	1.48	26.81	87.75	A3-10DA-2SV(71)
	12	12.0	10.0	H10964-ND	1.63	29.56	96.75	A3-12DA-2SV(71)
	14	14.0	12.0	H10965-ND	1.82	33.00	108.00	A3-14DA-2SV(71)
	16	16.0	14.0	H10966-ND	1.69	32.50	104.00	A3-16DA-2SV(71)
	20	20.0	18.0	H10967-ND	2.02	38.75	124.00	A3-20DA-2SV(71)
	24	24.0	22.0	H10968-ND	2.41	46.25	148.00	A3-24DA-2SV(71)
	28	28.0	26.0	H10969-ND	2.80	53.75	172.00	A3-28DA-2SV(71)
	32	32.0	30.0	H10970-ND	2.99	57.94	185.40	A3-32DA-2SV(71)
With Boss – Gold Plating — RoHS Compliant								
3	4	4.0	2.0	H10971-ND	.95	17.19	56.25	A3A-4DA-2SV(71)
	6	6.0	4.0	H10972-ND	1.10	19.94	65.25	A3A-6DA-2SV(71)
	8	8.0	6.0	H10973-ND	1.29	23.38	76.50	A3A-8DA-2SV(71)
	10	10.0	8.0	H10974-ND	1.48	26.81	87.75	A3A-10DA-2SV(71)
	12	12.0	10.0	H10975-ND	1.63	29.56	96.75	A3A-12DA-2SV(71)
	14	14.0	12.0	H10976-ND	1.82	33.00	108.00	A3A-14DA-2SV(71)
	16	16.0	14.0	H10977-ND	1.69	32.50	104.00	A3A-16DA-2SV(71)
	20	20.0	18.0	H10978-ND	2.02	38.75	124.00	A3A-20DA-2SV(71)
	24	24.0	22.0	H10979-ND	2.41	46.25	148.00	A3A-24DA-2SV(71)
	32	32.0	30.0	H10981-ND	2.99	57.94	185.40	A3A-32DA-2SV(71)

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Receptacle – Gold Plating									
4	6	6.0	4.0	3.0	H1850-ND	1.76	33.75	108.00	A3C-6DA-2DSA
	28	28.0	26.0	2.0	H1872-ND	2.96	56.88	182.00	A3C-28DA-2DSC
Receptacle – Gold Plating — RoHS Compliant									
4	4	4.0	2.0	2.0	H10904-ND	1.66	31.88	102.00	A3C-4DA-2DSC(71)
	6	6.0	4.0	2.0	H10905-ND	1.82	35.00	112.00	A3C-6DA-2DSC(71)
	8	8.0	6.0	2.0	H10906-ND	2.02	38.75	124.00	A3C-8DA-2DSC(71)
	8	8.0	6.0	1.27	H10922-ND	1.06	19.25	63.00	A3D-8DA-2DSE(71)
	10	10.0	8.0	3.0	H10894-ND	2.18	41.88	134.00	A3C-10DA-2DSA(71)
	10	10.0	8.0	2.0	H10907-ND	2.18	41.88	134.00	A3C-10DA-2DSC(71)
	12	12.0	10.0	3.0	H10895-ND	2.21	42.50	136.00	A3C-12DA-2DSA(71)
	12	12.0	10.0	2.0	H10908-ND	2.21	42.50	136.00	A3C-12DA-2DSC(71)
	14	14.0	12.0	3.0	H10896-ND	2.31	44.38	142.00	A3C-14DA-2DSA(71)
	14	14.0	12.0	2.0	H10909-ND	2.31	44.38	142.00	A3C-14DA-2DSC(71)
	16	16.0	14.0	3.0	H10897-ND	2.44	46.88	150.00	A3C-16DA-2DSA(71)
	16	16.0	14.0	2.0	H10910-ND	2.44	46.88	150.00	A3C-16DA-2DSC(71)
	16	16.0	14.0	1.27	H10926-ND	1.75	31.63	103.50	A3D-16DA-2DSE(71)
	18	18.0	16.0	2.0	H10911-ND	2.54	48.75	156.00	A3C-18DA-2DSC(71)
	18	18.0	16.0	1.27	H10927-ND	1.79	34.38	110.00	A3D-18DA-2DSE(71)
	20	20.0	18.0	3.0	H10899-ND	2.63	50.63	162.00	A3C-20DA-2DSA(71)
	20	20.0	18.0	2.0	H10912-ND	2.63	50.63	162.00	A3C-20DA-2DSC(71)
	24	24.0	22.0	3.0	H10900-ND	2.80	53.75	172.00	A3C-24DA-2DSA(71)
	24	24.0	22.0	2.0	H10913-ND	2.80	53.75	172.00	A3C-24DA-2DSC(71)
	28	28.0	26.0	3.0	H10901-ND	3.09	59.38	190.00	A3C-28DA-2DSA(71)
	28	28.0	26.0	2.0	H10914-ND	3.09	59.38	190.00	A3C-28DA-2DSC(71)
	32	32.0	30.0	3.0	H10902-ND	2.93	56.81	181.80	A3C-32DA-2DSA(71)
	32	32.0	30.0	2.0	H10915-ND	2.93	56.81	181.80	A3C-32DA-2DSC(71)
	32	32.0	30.0	1.27	H10918-ND	2.93	56.81	181.80	A3C-32DA-2DSE(71)
	44	44.0	42.0	1.27	H10930-ND	3.19	61.88	198.00	A3D-44DA-2DSE(71)
	44	44.0	42.0	1.0	H1890-ND	3.05	59.06	189.00	A3D-44DA-2DSG
	50	50.0	48.0	3.0	H10903-ND	4.96	96.19	307.80	A3C-50DA-2DSA(71)
	50	50.0	48.0	2.0	H10916-ND	4.96	96.19	307.80	A3C-50DA-2DSC(71)
	62	62.0	60.0	1.27	H10931-ND	4.84	93.94	300.60	A3D-62DA-2DSE(71)

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket – A3B Series — RoHS Compliant								
5	4	4.0	2.0	H2001-ND	.50	7.50	23.50	A3B-4D-2C
	6	6.0	4.0	H2002-ND	.50	7.50	23.50	A3B-6D-2C
	8	8.0	6.0	H2003-ND	.50	7.50	23.50	A3B-8D-2C
	10	10.0	8.0	H2004-ND	.60	9.00	28.20	A3B-10D-2C
	12	12.0	10.0	H2005-ND	.60	9.00	28.20	A3B-12D-2C
	14	14.0	12.0	H2006-ND	.70	10.50	32.90	A3B-14D-2C
	18	18.0	16.0	H2007-ND	.57	10.31	33.75	A3B-18D-2C
	20	20.0	18.0	H2008-ND	.65	11.69	38.25	A3B-20D-2C
	24	24.0	22.0	H2009-ND	.68	12.38	40.50	A3B-24D-2C
	28	28.0	26.0	H2010-ND	.76	13.75	45.00	A3B-28D-2C
Single Row Crimp Socket – A4B Series — RoHS Compliant								
6	2	4.0	2.0	H2011-ND	.50	7.50	23.50	A4B-2S-2C
	3	6.0	4.0	H2012-ND	.50	7.50	23.50	A4B-3S-2C
6	4	8.0	6.0	H2013-ND	.50	7.50	23.50	A4B-4S-2C
	6	12.0	10.0	H2015-ND	.65	9.75	30.55	A4B-6S-2C
	8	16.0	14.0	H2016-ND	.87	15.81	51.75	A4B-8S-2C
	10	20.0	18.0	H2017-ND	1.03	18.56	60.75	A4B-10S-2C
	12	24.0	22.0	H2018-ND	.50	7.50	23.50	A4B-12S-2C
Contacts and Crimp Tools — RoHS Compliant								
7	Crimp Terminal for A3B-A4B			H9999-ND	.30	—	9.08	A3B-2630SCC
	Crimp Tool for A3B-A4B			H9998-ND	887.90	—	—	A3B-TA2630HC
8	Polarizing Key for Socket Connectors			H2000-ND‡	1.82	33.00	108.00	A3-GPIN(A)
—	Crimp Tool and Die Set for A3B			H10875-ND	713.70	—	—	A3B-TA2630HC/US

‡ Qty. of 1 = strip of 10

A3E Series Crimp Connector 2mm Pitch

Specifications: • Current Rating: 0.5A • Voltage Rating: 125VAC • Operating Temperature: -55°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ min. at 250VDC • Withstanding Voltage: 300VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 40mΩ maximum @ 0.1A
Material: • Insulator Pin Header: black polyamide, UL 94V-0 • Insulator Socket: black PBT, UL 94V-0 • Pin Header Contact: Brass with selective gold plating • Socket Contact: beryllium copper

Fig. 1

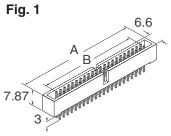

Fig. 2

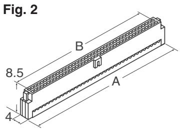

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Pin Header – Gold Plating								
1	44	52.0	42.0	H10932-ND◆	4.15	80.44	257.40	A3E-44PA-2DSA(71)
	50	58.0	48.0	H10933-ND◆	5.28	102.38	327.60	A3E-50PA-2DSA(71)
	50	58.0	48.0	H1826-ND	5.02	97.31	311.40	A3E-50PA-2DSA
Socket								
2	44	49.0	42.0	H1891-ND	8.01	161.70	508.20	A3E-44D-2R
	50	55.0	48.0	H1892-ND	7.85	158.55	498.30	A3E-50D-2R
—	Universal Guide Plate			H9947-ND	1677.00	—	—	A3E-GPA

◆ *RoHS Compliant*

MDF7 Series Bottom Entry Connector 2.54mm Pitch

RoHS COMPLIANT

Features: • Board-to-board distance can be freely set • Components sides of two boards can be arranged on the same side without facing each other

Applications: • Telephones, internal connections of OA/FA equipment, connection of IPM and IGBT to boards

Specifications: • Rated Current: 3A • Rated Voltage: AC250V • Operating Temperature: -35°C ~ 85°C • Insulation Resistance: 1,000MΩ or more • Contact Resistance: 30mΩ or less • Insertion and withdrawals force: Minimum 0.4N (40gf), Maximum 4.4N (450gf)

Materials: • Receptacle: Insulation; Polyamide resin, black, UL 94V-0 and Terminal; Phosphor bronze, gold or tin • Pin Header: Insulation; PBT resin, Main body – Black / Locator: Grey, UL 94V-0

Fig. 1

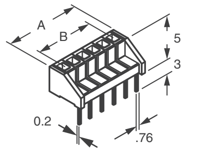

Fig. 2

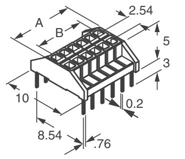

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	B		1	25	100	
Receptacle - Straight Dip								
Single Row – Tin								
1	3	7.62	5.08	H10653-ND	1.06	.77	.63	MDF7- 3S-2.54DSA(55)
	5	12.70	10.16	H10654-ND	1.22	.88	.72	MDF7- 5S-2.54DSA(55)
	6	15.24	12.70	H10655-ND	1.29	.94	.77	MDF7- 6S-2.54DSA(55)
	7	17.78	15.24	H10656-ND	1.37	.99	.81	MDF7- 7S-2.54DSA(55)
	8	20.32	17.78	H10657-ND	1.44	1.05	.86	MDF7- 8S-2.54DSA(55)
	9	22.86	20.32	H10658-ND	1.52	1.10	.90	MDF7- 9S-2.54DSA(55)
	10	25.40	22.86	H10659-ND	1.71	1.24	1.02	MDF7-10S-2.54DSA(55)
	11	27.94	25.40	H10660-ND	1.79	1.30	1.06	MDF7-11S-2.54DSA(55)
	12	30.48	27.94	H10661-ND	1.86	1.35	1.11	MDF7-12S-2.54DSA(55)
	13	33.02	30.48	H10662-ND	1.86	1.35	1.11	MDF7-13S-2.54DSA(55)
	16	40.64	38.10	H10665-ND	1.76	1.35	1.08	MDF7-16S-2.54DSA(55)
	18	45.72	43.18	H10667-ND	1.92	1.48	1.18	MDF7-18S-2.54DSA(55)
	20	50.80	48.26	H10669-ND	1.98	1.53	1.22	MDF7-20S-2.54DSA(55)
	25	63.50	60.96	H10674-ND	2.47	1.90	1.52	MDF7-25S-2.54DSA(55)
Double Row – Gold								
2	12	15.24	12.70	H10675-ND	3.06	2.35	1.88	MDF7-12D-2.54DSA(56)
	14	17.78	15.24	H10676-ND	3.07	2.39	1.91	MDF7-14D-2.54DSA(56)
	16	20.32	17.78	H10677-ND	3.31	2.57	2.06	MDF7-16D-2.54DSA(56)
	20	25.40	22.86	H10678-ND	3.80	2.95	2.36	MDF7-20D-2.54DSA(56)
	22	27.94	25.40	H10679-ND	3.89	3.02	2.42	MDF7-22D-2.54DSA(56)
	30	38.10	35.56	H10681-ND	5.05	3.92	3.14	MDF7-30D-2.54DSA(56)
	34	43.18	40.64	H10682-ND	5.80	4.50	3.60	MDF7-34D-2.54DSA(56)

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

2mm Headers

Features: • 15 microinches selective gold plating • Insulator is glass filled thermoplastic UL Rating 94V-0 • Color: Black • Contact material: Non-RoHS parts are phosphor bronze; RoHS parts are copper alloy • "Post plated" contacts; no bare edges.

Single Row – Straight Header

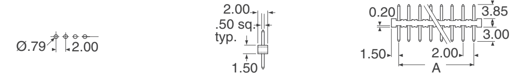

Single Row – Right Angle Header

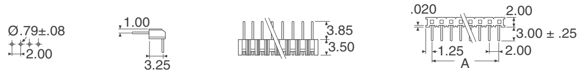

Dual Row – Straight Header

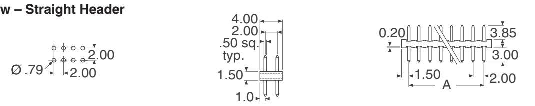

Dual Row – Right Angle Header

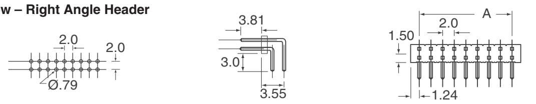

Manufacturer's Full Length Headers Available in Multiple Pin Versions

Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	NorComp Part No.
Single Row Straight — 36 Pins					
70.0	2663S-36-ND	3.27	22.38	178.00	26633601RP2
Single Row Right Angle — 36 Pins					
70.0	2763R-36-ND	3.27	22.38	178.00	27633602RP2
Dual Row Straight — 72 Pins					
70.0	2664S-36-ND	6.12	41.88	333.13	26647201RP2
Dual Row, Right Angle — 72 Pins					
70.0	2764R-36-ND	7.15	52.27	432.99	27647202RP2

To Purchase A Custom Pin Header....

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
2663S-XX-ND	1.37	.06
2763R-XX-ND	1.37	.06
2664S-XX-ND	2.29	.12
2764R-XX-ND	3.05	.17

How to Order 2mm Headers — 4 Easy Steps

Q. How do I order a 2663S single row header with 16 pins?

A. Call Digi-Key where you'll receive the price or determine the cost yourself.

Step 1. Select needed "Digi-Key Part Number" and number of pins desired.

Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins per row you desire by "Pin Adder" of your selected Part Number (refer to chart).

Step 4. Add Step 2 and Step 3 together for Final Cost.

2 ☐☐☐☐ - ☐☐ - ND

Base Part Number — Number of Desired Pins Per Row

OUR EXAMPLE		*YOUR DIGI-KEY PART NUMBER*	
Step 1.	2663S-16-ND	Step 1.	2 _ _ _ _ - _ _ - ND
Step 2.	1.37	Step 2.	_____
Step 3.	16 x .06 = .96	Step 3.	_ x _ = _____
Step 4.	Your Cost = $2.33	Step 4.	Your Cost = _____

NOTE: For Quantities of 10 or More, Call Digi-Key.

2mm Shunts

Materials:

• Housing Material: Glass filled thermoplastic, UL flammability rating 94V-0 • Color: Black • Contact Material: High Performance Copper Alloy

Fig. 1

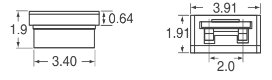

Low Profile

Fig. 2

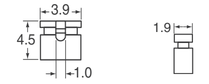

Standard Profile

Fig.	Finish	Digi-Key Part No.	Pricing 1	10	100	500	NorComp Part No.
1	Tin	LP1-006E-ND	.87	5.10	34.90	146.97	810-002-LP1R006
	Gold*	LP1-001E-ND	1.18	6.90	47.22	198.84	810-002-LP1R001
2	Gold*	SP2-001E-ND	.92	5.40	36.95	155.61	810-002-SP2L001

* 30μ" gold plated

2mm Receptacles

Features:

• Printed Circuit Board Mounted Receptacle • .079" (2mm) centers for real estate savings • Single and Dual Row Offerings • 15 microinches selective gold • Insulator, housing, material is glass filled thermoplastic, UL Rating 94V-0 • Color: Black • Contact material is phosphor bronze

Single Row – Vertical Receptacle

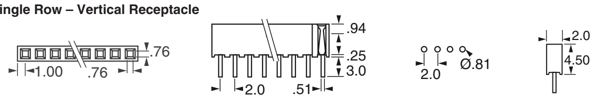

Dual Row – Vertical Receptacle

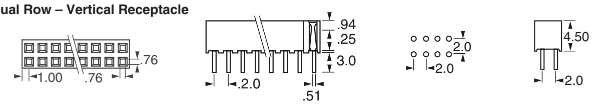

Single Row – Vertical SMT Receptacle

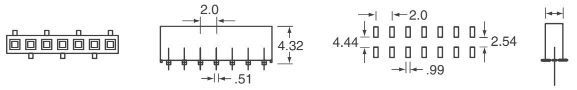

Dual Row – Vertical SMT Receptacle

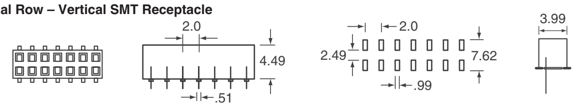

No. of Positions	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Single Row Vertical — RoHS Compliant					
2	2563S-02-ND	1.77	1.16	.89	25630201RP2
3	2563S-03-ND	1.95	1.27	.97	25630301RP2
4	2563S-04-ND	2.12	1.38	1.06	25630401RP2
5	2563S-05-ND	2.37	1.54	1.18	25630501RP2
6	2563S-06-ND	2.54	1.65	1.27	25630601RP2
7	2563S-07-ND	2.78	1.81	1.39	25630701RP2
8	2563S-08-ND	3.03	1.97	1.51	25630801RP2
9	2563S-09-ND	3.20	2.08	1.60	25630901RP2
10	2563S-10-ND	3.44	2.24	1.72	25631001RP2
11	2563S-11-ND	3.15	2.16	1.72	25631101RP2
12	2563S-12-ND	3.33	2.28	1.82	25631201RP2
14	2563S-14-ND	3.66	2.51	2.00	25631401RP2
15	2563S-15-ND	3.87	2.65	2.11	25631501RP2
20	2563S-20-ND	4.47	3.06	2.44	25632001RP2
28	2563S-28-ND	6.24	4.27	3.40	25632801RP2
36	2563S-36-ND	7.02	4.81	3.83	25633601RP2
Dual Row Vertical					
18	2064S-09-ND	2.63	2.02	1.94	2064-18-01-P2
Dual Row Vertical — RoHS Compliant					
4	2564S-02-ND	1.88	1.22	.94	25640401RP2
6	2564S-03-ND	2.57	1.68	1.28	25640601RP2
8	2564S-04-ND	3.03	1.97	1.51	25640801RP2
10	2564S-05-ND	3.44	2.24	1.72	25641001RP2
12	2564S-06-ND	3.33	2.28	1.82	25641201RP2
14	2564S-07-ND	3.72	2.55	2.03	25641401RP2
16	2564S-08-ND	4.08	2.80	2.23	25641601RP2
18	2564S-09-ND	4.47	3.06	2.44	25641801RP2
20	2564S-10-ND	4.86	3.33	2.65	25642001RP2
22	2564S-11-ND	5.22	3.58	2.85	25642201RP2
24	2564S-12-ND	5.64	3.86	3.07	25642401RP2
30	2564S-15-ND	5.85	4.01	3.19	25643001RP2
50	2564S-25-ND	6.24	4.27	3.40	25645001RP2
72	2564S-36-ND	11.92	8.72	7.23	25647201RP2
Single Row Vertical SMT — RoHS Compliant					
4	2863S-04-ND	1.19	.74	.54	28630406RP2
6	2863S-06-ND	1.47	.91	.67	28630606RP2
8	2863S-08-ND	1.96	1.22	.89	28630806RP2
10	2863S-10-ND	1.88	1.22	.94	28631006RP2
12	2863S-12-ND	2.30	1.50	1.15	28631206RP2
13	2863S-13-ND	2.68	1.74	1.34	28631306RP2
15	2863S-15-ND	3.10	2.02	1.54	28631506RP2
Dual Row Vertical SMT — RoHS Compliant					
12	2864S-12-ND	1.31	.88	.85	28641206RP2
16	2864S-16-ND	1.72	1.16	1.11	28641606RP2
20	2864S-20-ND	2.00	1.34	1.29	28642006RP2
30	2864S-30-ND	2.71	2.08	1.99	28643006RP2

HIROSE ELECTRIC CO., LTD.

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch

Features:
- A single or double row contact arrangement is available to both PCB to cable and adapter series with tin or gold plating
- A tall header supporting the potting processing of the PCB (with resin filled) for waterproof measures is available

Applications: Copy machine, printer, office equipment

Specifications:
- UL: E52653 and CSA: LR95109 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum

Materials:
- Insulator: Polyamide, white, UL94V-0 • Contacts: Socket/Plug: Phosphor copper with gold or tin plating, Header: Brass with gold or tin plating

Fig. 1

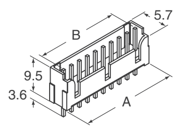

Fig. 2

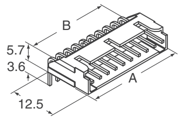

Fig. 3

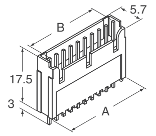

Fig. 4

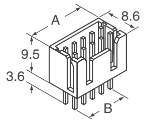

Fig. 5

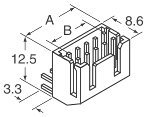

Fig. 6

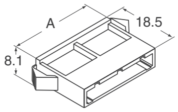

Fig. 7

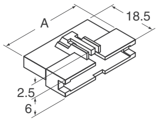

Mates to full lock type receptacles only

Fig. 8

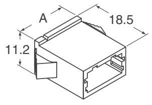

Fig. 9

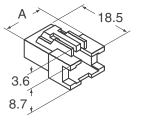

Mates to full lock type receptacles only

Fig. 10

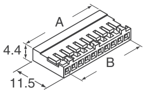

Fig. 11

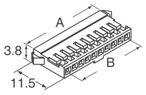

Mates to full lock type plugs only

Fig. 12

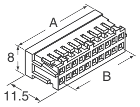

Fig. 13

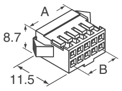

Mates to full lock type plugs only

Fig.	No. of Contacts	Dimensions – (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
VERTICAL PIN HEADERS **Single Row**								
Tin Plating								
1	2	7.5	2.5	H10982-ND	.35	4.19	12.50	DF1BZ-2P-2.5DSA
	3	10	5	H10983-ND	.43	5.11	15.25	DF1BZ-3P-2.5DSA
	4	12.5	7.5	H10984-ND	.48	5.78	17.25	DF1BZ-4P-2.5DSA
	5	15	10	H10985-ND	.55	6.62	19.75	DF1BZ-5P-2.5DSA
	6	17.5	12.5	H10986-ND	.47	7.05	22.09	DF1BZ-6P-2.5DSA
	7	20	15	H10987-ND	.51	7.58	23.74	DF1BZ-7P-2.5DSA
	8	22.5	17.5	H10988-ND	.55	8.18	25.62	DF1BZ-8P-2.5DSA
	9	25	20	H10989-ND	.62	9.30	29.14	DF1BZ-9P-2.5DSA
	10	27.5	22.5	H10990-ND	.70	10.43	32.67	DF1BZ-10P-2.5DSA
	11	30	25	H10991-ND	.75	11.18	35.02	DF1BZ-11P-2.5DSA
	12	32.5	27.5	H10992-ND	.59	10.73	35.10	DF1BZ-12P-2.5DSA
	13	35	30	H10993-ND	.62	11.21	36.68	DF1BZ-13P-2.5DSA
	14	37.5	32.5	H10994-ND	.65	11.76	38.48	DF1BZ-14P-2.5DSA
	15	40	35	H10995-ND	.84	15.13	49.50	DF1BZ-15P-2.5DSA
	16	42.5	37.5	H10996-ND	.87	15.81	51.75	DF1BZ-16P-2.5DSA
	20	52.2	47.5	H10998-ND	.99	17.88	58.50	DF1BZ-20P-2.5DSA
Gold Plating								
1	2	7.5	2.5	H3615-ND	.43	6.38	19.98	DF1B-2P-2.5DSA(01)
	3	10	5	H3616-ND	.57	8.48	26.56	DF1B-3P-2.5DSA(01)
	4	12.5	7.5	H3617-ND	.69	10.35	32.43	DF1B-4P-2.5DSA(01)
	5	15	10	H3618-ND	.63	11.48	37.58	DF1B-5P-2.5DSA(01)
	6	17.5	12.5	H3619-ND	.76	13.75	45.00	DF1B-6P-2.5DSA(01)
	7	20	15	H3620-ND	.84	15.13	49.50	DF1B-7P-2.5DSA(01)
	8	22.5	17.5	H3621-ND	.95	17.19	56.25	DF1B-8P-2.5DSA(01)
	9	25	20	H3622-ND	1.06	19.25	63.00	DF1B-9P-2.5DSA(01)
	10	27.5	22.5	H3623-ND	1.22	22.00	72.00	DF1B-10P-2.5DSA(01)
	11	30	25	H3624-ND	1.22	22.00	72.00	DF1B-11P-2.5DSA(01)
	12	32.5	27.5	H3625-ND	1.41	25.44	83.25	DF1B-12P-2.5DSA(01)
Single Row Right Angle								
Tin Plating								
2	2	7.5	2.5	H10999-ND	.46	5.44	16.25	DF1BZ-2P-2.5DS
	3	10	5	H11000-ND	.55	6.53	19.50	DF1BZ-3P-2.5DS
	4	12.5	7.5	H11001-ND	.43	6.38	19.98	DF1BZ-4P-2.5DS
	5	15	10	H11002-ND	.50	7.50	23.50	DF1BZ-5P-2.5DS
	6	17.5	12.5	H11003-ND	.58	8.63	27.03	DF1BZ-6P-2.5DS
	7	20	15	H11004-ND	.62	9.30	29.14	DF1BZ-7P-2.5DS
	8	22.5	17.5	H11005-ND	.66	9.83	30.79	DF1BZ-8P-2.5DS
	9	25	20	H11006-ND	.57	10.38	33.98	DF1BZ-9P-2.5DS
	10	27.5	22.5	H11007-ND	.64	11.55	37.80	DF1BZ-10P-2.5DS
	11	30	25	H11008-ND	.67	12.10	39.60	DF1BZ-11P-2.5DS
	12	32.5	27.5	H11009-ND	.70	12.72	41.63	DF1BZ-12P-2.5DS
	13	35	30	H11010-ND	.76	13.75	45.00	DF1BZ-13P-2.5DS
	14	37.5	32.5	H11011-ND	.80	14.44	47.25	DF1BZ-14P-2.5DS
	15	40	35	H11012-ND	.95	17.19	56.25	DF1BZ-15P-2.5DS
	16	42.5	37.5	H11013-ND	.99	17.88	58.50	DF1BZ-16P-2.5DS
	18	47.5	42.5	H11014-ND	1.06	19.25	63.00	DF1BZ-18P-2.5DS
	20	52.2	47.5	H11015-ND	1.10	19.94	65.25	DF1BZ-20P-2.5DS
Gold Plating								
2	2	7.5	2.5	H3632-ND	.53	7.88	24.68	DF1B-2P-2.5DS(01)
	3	10	5	H3633-ND	.69	10.35	32.43	DF1B-3P-2.5DS(01)
	4	12.5	7.5	H3634-ND	.63	11.48	37.58	DF1B-4P-2.5DS(01)
	5	15	10	H3635-ND	.76	13.75	45.00	DF1B-5P-2.5DS(01)
	6	17.5	12.5	H3636-ND	.91	16.50	54.00	DF1B-6P-2.5DS(01)
	7	20	15	H3637-ND	1.03	18.56	60.75	DF1B-7P-2.5DS(01)
	8	22.5	17.5	H3638-ND	1.14	20.63	67.50	DF1B-8P-2.5DS(01)
	9	25	20	H3639-ND	1.22	22.00	72.00	DF1B-9P-2.5DS(01)
	10	27.5	22.5	H3640-ND	1.41	25.44	83.25	DF1B-10P-2.5DS(01)
	11	30	25	H3641-ND	1.52	27.50	90.00	DF1B-11P-2.5DS(01)
	12	32.5	27.5	H3642-ND	1.63	29.56	96.75	DF1B-12P-2.5DS(01)
	16	42.5	37.5	H11097-ND	.99	17.88	58.50	DF1BZ-16P-2.5DS(11)
Single Row for Potting								
Tin Plating								
3	3	10	5	H11017-ND	.99	17.88	58.50	DF1BD-3P-2.5DSA(05)
Tin Plating								
4	4	7.5	2.5	H11042-ND	.46	6.83	21.39	DF1BZ-4DP-2.5DSA
	6	10	5	H11043-ND	.57	8.48	26.56	DF1BZ-6DP-2.5DSA
	8	12.5	7.5	H11044-ND	.67	10.05	31.49	DF1BZ-8DP-2.5DSA
	10	15	10	H11045-ND	.62	11.14	36.45	DF1BZ-10DP-2.5DSA
	12	17.5	12.5	H11046-ND	.70	12.58	41.18	DF1BZ-12DP-2.5DSA
	14	20	15	H11047-ND	.80	14.44	47.25	DF1BZ-14DP-2.5DSA
	16	22.5	17.5	H11048-ND	.87	15.81	51.75	DF1BZ-16DP-2.5DSA
	18	25	20	H11049-ND	.99	17.88	58.50	DF1BZ-18DP-2.5DSA
	20	27.5	22.5	H11050-ND	1.06	19.25	63.00	DF1BZ-20DP-2.5DSA
	22	30	25	H11051-ND	1.22	22.00	72.00	DF1BZ-22DP-2.5DSA
	24	32.5	27.5	H11052-ND	1.29	23.38	76.50	DF1BZ-24DP-2.5DSA
	26	35	30	H11053-ND	1.37	24.75	81.00	DF1BZ-26DP-2.5DSA
	28	37.5	32.5	H11054-ND	1.41	25.44	83.25	DF1BZ-28DP-2.5DSA
	30	40	35	H11055-ND	1.63	29.56	96.75	DF1BZ-30DP-2.5DSA
	34	45	40	H11056-ND	1.79	32.31	105.75	DF1BZ-34DP-2.5DSA
	36	47.5	42.5	H11057-ND	1.63	31.25	100.00	DF1BZ-36DP-2.5DSA
	40	52.5	47.5	H11058-ND	1.72	33.13	106.00	DF1BZ-40DP-2.5DSA
Gold Plating								
4	4	7.5	2.5	H3666-ND	.70	10.43	32.67	DF1B-4DP-2.5DSA(01)
	6	10	5	H3667-ND	.68	12.38	40.50	DF1B-6DP-2.5DSA(01)
	8	12.5	7.5	H3668-ND	.84	15.13	49.50	DF1B-8DP-2.5DSA(01)
	10	15	10	H3669-ND	.99	17.88	58.50	DF1B-10DP-2.5DSA(01)
	12	17.5	12.5	H3670-ND	1.14	20.63	67.50	DF1B-12DP-2.5DSA(01)
	14	20	15	H3671-ND	1.29	23.38	76.50	DF1B-14DP-2.5DSA(01)
	16	22.5	17.5	H3672-ND	1.44	26.13	85.50	DF1B-16DP-2.5DSA(01)
	18	25	20	H3673-ND	1.60	28.88	94.50	DF1B-18DP-2.5DSA(01)
	20	27.5	22.5	H3674-ND	1.75	31.63	103.50	DF1B-20DP-2.5DSA(01)
	26	35	30	H3677-ND	1.98	38.13	122.00	DF1B-26DP-2.5DSA(01)
	28	37.5	32.5	H3678-ND	2.11	40.63	130.00	DF1B-28DP-2.5DSA(01)
	40	52.5	47.5	H3682-ND	2.93	56.25	180.00	DF1B-40DP-2.5DSA(01)
Double Row Right Angle								
Tin Plating								
5	4	7.5	2.5	H11025-ND	.52	7.80	24.44	DF1BZ-4DP-2.5DS
	6	10	5	H11026-ND	.66	9.83	30.79	DF1BZ-6DP-2.5DS
	8	12.5	7.5	H11027-ND	.59	10.59	34.65	DF1BZ-8DP-2.5DS
	10	15	10	H11028-ND	.72	13.06	42.75	DF1BZ-10DP-2.5DS
	12	17.5	12.5	H11029-ND	.84	15.13	49.50	DF1BZ-12DP-2.5DS
	14	20	15	H11030-ND	.91	16.50	54.00	DF1BZ-14DP-2.5DS
	16	22.5	17.5	H11031-ND	.99	17.88	58.50	DF1BZ-16DP-2.5DS
	18	25	20	H11032-ND	1.14	20.63	67.50	DF1BZ-18DP-2.5DS
	24	32.5	27.5	H11035-ND	1.48	26.81	87.75	DF1BZ-24DP-2.5DS
	26	35	30	H11036-ND	1.56	28.19	92.25	DF1BZ-26DP-2.5DS
	34	45	40	H11039-ND	1.79	34.38	110.00	DF1BZ-34DP-2.5DS

(Continued)

HIROSE ELECTRIC CO., LTD.

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch *(Cont.)*

Fig.	No. of Contacts	Dimensions – (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
				Gold Plating				
5	4	7.5	2.5	H3649-ND	.66	11.96	39.15	DF1B-4DP-2.5DS(01)
	6	10	5	H3650-ND	.91	16.50	54.00	DF1B-6DP-2.5DS(01)
	8	12.5	7.5	H3651-ND	1.18	21.31	69.75	DF1B-8DP-2.5DS(01)
	10	15	10	H3652-ND	1.44	26.13	85.50	DF1B-10DP-2.5DS(01)
	12	17.5	12.5	H3653-ND	1.67	30.25	99.00	DF1B-12DP-2.5DS(01)
	14	20	15	H3654-ND	1.66	31.88	102.00	DF1B-14DP-2.5DS(01)
	16	22.5	17.5	H3655-ND	1.85	35.63	114.00	DF1B-16DP-2.5DS(01)
	18	25	20	H3656-ND	2.08	40.00	128.00	DF1B-18DP-2.5DS(01)
	20	27.5	22.5	H3657-ND	2.31	44.38	142.00	DF1B-20DP-2.5DS(01)
	24	32.5	27.5	H3659-ND	2.80	53.75	172.00	DF1B-24DP-2.5DS(01)
	30	40	35	H3662-ND	3.10	60.19	192.60	DF1B-30DP-2.5DS(01)
				IN-LINE PLUGS (order contacts separately)				
				Single Row (simple lock type)				
6	2	7.1	—	H3683-ND	.39	4.61	13.75	DF1BA-2EP-2.5RC
	3	9.6	—	H3684-ND	.43	5.11	15.25	DF1BA-3EP-2.5RC
	4	12.1	—	H3685-ND	.48	5.70	17.00	DF1BA-4EP-2.5RC
	5	14.6	—	H3686-ND	.44	6.53	20.45	DF1BA-5EP-2.5RC
	6	17.1	—	H3687-ND	.46	6.83	21.39	DF1BA-6EP-2.5RC
	7	19.6	—	H3688-ND	.49	7.35	23.03	DF1BA-7EP-2.5RC
	8	22.1	—	H3689-ND	.52	7.73	24.21	DF1BA-8EP-2.5RC
	9	24.6	—	H3690-ND	.73	10.95	34.31	DF1BA-9EP-2.5RC
	10	27.1	—	H3691-ND	.59	10.73	35.10	DF1BA-10EP-2.5RC
	11	29.6	—	H3692-ND	.61	11.07	36.23	DF1BA-11EP-2.5RC
	12	32.1	—	H3693-ND	.66	11.89	38.93	DF1BA-12EP-2.5RC
				Single Row (full lock type)				
7	2	8.9	—	H3733-ND	.33	3.94	11.75	DF1B-2EP-2.5RC
	3	11.4	—	H3734-ND	.39	4.61	13.75	DF1B-3EP-2.5RC
	4	13.9	—	H3735-ND	.44	5.28	15.75	DF1B-4EP-2.5RC
	5	16.4	—	H3736-ND	.48	5.78	17.25	DF1B-5EP-2.5RC
	6	18.9	—	H3737-ND	.53	6.28	18.75	DF1B-6EP-2.5RC
	7	21.4	—	H3738-ND	.47	6.98	21.86	DF1B-7EP-2.5RC
	8	23.9	—	H3739-ND	.50	7.43	23.27	DF1B-8EP-2.5RC
	9	26.4	—	H3740-ND	.53	7.88	24.68	DF1B-9EP-2.5RC
				Double Row (simple lock type)				
8	4	8.6	—	H3696-ND	.47	7.05	22.09	DF1BA-4DEP-2.5RC
	6	11.1	—	H3697-ND	.52	7.80	24.44	DF1BA-6DEP-2.5RC
	8	13.6	—	H3698-ND	.55	8.18	25.62	DF1BA-8DEP-2.5RC
	10	16.1	—	H3699-ND	.56	8.40	26.32	DF1BA-10DEP-2.5RC
	12	18.6	—	H3700-ND	.59	8.78	27.50	DF1BA-12DEP-2.5RC
	14	21.1	—	H3701-ND	.62	9.23	28.91	DF1BA-14DEP-2.5RC
	16	23.6	—	H3702-ND	.64	9.60	30.08	DF1BA-16DEP-2.5RC
	24	33.6	—	H3706-ND	.84	15.13	49.50	DF1BA-24DEP-2.5RC
				Double Row (full lock type)				
9	10	17.2	—	H3711-ND	.84	15.13	49.50	DF1B-10DEP-2.5RC
	12	19.7	—	H3712-ND	.84	15.13	49.50	DF1B-12DEP-2.5RC
	14	22.2	—	H3713-ND	.87	15.81	51.75	DF1B-14DEP-2.5RC
	16	24.7	—	H3714-ND	.91	16.50	54.00	DF1B-16DEP-2.5RC
	20	29.7	—	H3716-ND	1.03	18.56	60.75	DF1B-20DEP-2.5RC
	26	37.2	—	H3719-ND	1.14	20.63	67.50	DF1B-26DEP-2.5RC
	30	42.2	—	H3721-ND	1.25	22.69	74.25	DF1B-30DEP-2.5RC
	32	44.7	—	H3722-ND	1.29	23.38	76.50	DF1B-32DEP-2.5RC
				SOCKETS (order contacts separately)				
				Single Row				
10	2	5	2.5	H3781-ND	.23	2.44	6.88	DF1B-2S-2.5R
	3	7.5	5	H3782-ND	.24	2.63	7.43	DF1B-3S-2.5R
	4	10	7.5	H3783-ND	.25	2.73	7.70	DF1B-4S-2.5R
	5	12.5	10	H3784-ND	.28	3.02	8.53	DF1B-5S-2.5R
	6	15	12.5	H3785-ND	.35	3.80	10.73	DF1B-6S-2.5R
	7	17.5	15	H3786-ND	.29	3.43	10.25	DF1B-7S-2.5R
	8	20	17.5	H3787-ND	.30	3.60	10.75	DF1B-8S-2.5R
	9	22.5	20	H3788-ND	.36	4.27	12.75	DF1B-9S-2.5R
	10	25	22.5	H3789-ND	.37	4.44	13.25	DF1B-10S-2.5R
	11	27.5	25	H3790-ND	.38	4.52	13.50	DF1B-11S-2.5R
	12	30	27.5	H3791-ND	.39	4.69	14.00	DF1B-12S-2.5R
	13	32.5	30	H3792-ND	.41	4.86	14.50	DF1B-13S-2.5R
	14	35	32.5	H3793-ND	.43	5.11	15.25	DF1B-14S-2.5R
	16	40	37.5	H3795-ND	.55	6.53	19.50	DF1B-16S-2.5R
	20	50	47.5	H3797-ND	.43	6.38	19.98	DF1B-20S-2.5R
				Single Row - In-Line (full lock type)				
11	2	6.5	2.5	H3798-ND	.33	3.94	11.75	DF1B-2ES-2.5RC
	3	9	5	H3799-ND	.39	4.61	13.75	DF1B-3ES-2.5RC
	4	11.5	7.5	H3800-ND	.45	5.36	16.00	DF1B-4ES-2.5RC
	5	14	10	H3801-ND	.49	5.86	17.50	DF1B-5ES-2.5RC
	6	16.5	12.5	H3802-ND	.53	6.37	19.00	DF1B-6ES-2.5RC
	7	19	15	H3803-ND	.48	7.20	22.56	DF1B-7ES-2.5RC
	8	21.5	17.5	H3804-ND	.51	7.65	23.97	DF1B-8ES-2.5RC
	9	24	20	H3805-ND	.54	8.10	25.38	DF1B-9ES-2.5RC
	12	31.5	27.5	H3808-ND	.63	9.45	29.61	DF1B-12ES-2.5RC
				Double Row				
12	4	7.5	2.5	H3810-ND	.39	4.69	14.00	DF1B-4DS-2.5RC
	6	10	5	H3811-ND	.43	5.19	15.50	DF1B-6DS-2.5RC
	8	12.5	7.5	H3812-ND	.48	5.70	17.00	DF1B-8DS-2.5RC
	10	15	10	H3813-ND	.51	6.11	18.25	DF1B-10DS-2.5RC
	12	17.5	12.5	H3814-ND	.55	6.62	19.75	DF1B-12DS-2.5RC
	14	20	15	H3815-ND	.42	6.30	19.74	DF1B-14DS-2.5RC
	16	22.5	17.5	H3816-ND	.45	6.75	21.15	DF1B-16DS-2.5RC
	18	25	20	H3817-ND	.48	7.13	22.33	DF1B-18DS-2.5RC
	20	27.5	22.5	H3818-ND	.52	7.73	24.21	DF1B-20DS-2.5RC
	24	32.5	27.5	H3820-ND	.58	8.70	27.26	DF1B-24DS-2.5RC
	26	35	30	H3821-ND	.61	9.15	28.67	DF1B-26DS-2.5RC
	30	40	35	H3823-ND	.68	10.13	31.73	DF1B-30DS-2.5RC
	34	45	40	H3824-ND	.73	10.88	34.08	DF1B-34DS-2.5RC
	36	47.5	42.5	H3825-ND	.59	10.73	35.10	DF1B-36DS-2.5RC
	40	52.5	47.5	H3826-ND	.62	11.14	36.45	DF1B-40DS-2.5RC
				Double Row - In-Line (full lock type)				
13	10	15	10	H3754-ND	.87	15.81	51.75	DF1B-10DES-2.5RC
	12	17.5	12.5	H3755-ND	.91	16.50	54.00	DF1B-12DES-2.5RC
	14	20	15	H3756-ND	.95	17.19	56.25	DF1B-14DES-2.5RC
	16	22.5	17.5	H3757-ND	.99	17.88	58.50	DF1B-16DES-2.5RC
	18	25	20	H3758-ND	1.06	19.25	63.00	DF1B-18DES-2.5RC
	20	27.5	22.5	H3759-ND	1.10	19.94	65.25	DF1B-20DES-2.5RC
	24	32.5	27.5	H3761-ND	1.18	21.31	69.75	DF1B-24DES-2.5RC
	26	35	30	H3762-ND	1.25	22.69	74.25	DF1B-26DES-2.5RC
	30	40	35	H3764-ND	1.37	24.75	81.00	DF1B-30DES-2.5RC

Crimping Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape‡ Pricing		T & R† Pricing	Hirose Part No.
		1	25	100		1,000	3,000	10,000	
				Plug Contacts — RoHS Compliant					
				Tin Plating					
20-22	H3827-ND	.25	2.73	7.70	DF1B-2022PC	48.00	44.80/M	29.00/M	DF1B-2022PCF
24-28	H3831-ND	.28	2.88	7.13	DF1B-2428PC	40.50	37.80/M	24.00/M	DF1B-2428PCF
30	H3847-ND	.23	2.54	7.15	DF1B-30PC	—	—	—	—
				Gold Plating					
20-22	H3829-ND	.46	5.53	16.50	DF1B-2022PCB	98.00	94.50/M	71.00/M	DF1B-2022PCFB
24-28	H3833-ND	.62	9.30	29.14	DF1-PD2428SCB	172.80	170.24/M	95.00/M	DF1-PD2428SCFB
30	H3849-ND	.50	5.95	17.75	DF1B-30PCB	—	—	—	—
				Socket Contacts — RoHS Compliant					
				Tin Plating					
20-22	H3828-ND	.24	2.50	6.20	DF1B-2022SC	38.40	34.80/M	20.00/M	DF1B-2022SCF
24-28	H3832-ND	.24	2.50	6.20	DF1B-2428SC	38.40	34.80/M	20.00/M	DF1B-2428SCF
30	H3848-ND	.24	2.50	6.20	DF1B-30SC	—	—	—	—
				Gold Plating					
20-22	H3830-ND	.35	4.19	12.50	DF1B-2022SCA	75.60	72.90/M	53.00/M	DF1B-2022SCFA
24-28	H3834-ND	.30	3.60	10.75	DF1B-2428SCA	65.80	63.45/M	41.00/M	DF1B-2428SCFA
30	H3850-ND	.30	3.60	10.75	DF1B-30SCA	—	—	—	—

‡ For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

ID Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape‡ Pricing			T & R† Pricing	Hirose Part No.
		1	25	100		1,000	3,000	5,000	10,000	
				Plug Contacts — RoHS Compliant						
				Tin Plating						
24	H3835-ND	.28	3.02	8.53	DF1B-24PR	—	—	—	—	—
26	H3839-ND	.26	2.83	7.98	DF1B-26PR	—	—	—	—	—
28	H3843-ND	.26	2.83	7.98	DF1B-28PR	—	—	—	—	—
				Socket Contacts — RoHS Compliant						
				Tin Plating						
24	H3836-ND	.19	2.00	4.96	DF1B-R24	32.00	29.00/M	27.00/M	20.00/M	DF1B-R24F
26	H3840-ND	.19	2.00	4.96	DF1B-R26	—	—	—	—	—
28	H3844-ND	.19	2.00	4.96	DF1B-R28	—	—	—	—	—
				Gold Plating						
24	H11098-ND	.40	4.77	14.25	DF1B-R24A(06)	85.40	82.35/M	77.78/M	65.00/M	DF1B-R24FA(06)
26	H11099-ND	.40	4.77	14.25	DF1B-R26A(06)	85.40	82.35/M	77.78/M	65.00/M	DF1B-R26FA(06)
28	H11100-ND	.40	4.77	14.25	DF1B-R28A(06)	85.40	82.35/M	77.78/M	65.00/M	DF1B-R28FA(06)

‡ For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

(Continued)

HIROSE ELECTRIC CO., LTD.

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch *(Cont.)*

Tools

Description	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Manual ID Tools					
24-28AWG, Plug	H9934-ND	1107.60	—	—	DF1B-T2428HPR
24-28AWG, Socket	H9933-ND	873.60	—	—	DF1B-T2428HR
Manual Crimping Tools					
20-22AWG, Plug	H9935-ND	865.80	—	—	DF1B-TA2022PHC
24-28AWG, Plug	H9937-ND	887.90	—	—	DF1B-TA2428PHC
30AWG, Plug	H9939-ND	887.90	—	—	DF1B-TA30PHC
20-22AWG, Socket	H9936-ND	865.80	—	—	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	887.90	—	—	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	887.90	—	—	DF1B-TA30SHC
Extraction Tools					
ID Socket	H9930-ND	3.16	61.31	196.20	DF-C-P0(A)
ID/Crimp Pin	H9932-ND	12.46	—	—	DF-C-P0(C)

DF1E Series Connectors -

2.5 Pitch for Full Lock and Discrete Wire Connection

Features:
• The inner lock system adopts a full lock mechanism. This mechanism prevents disengagement to occur due to an unexpected external shock • The double lock is activated for the use method to give a stress to the cable, to increase crimping contact fixation force, and to prevent the semi-insertion of the crimping contact • Equipped with the mechanism to completely prevent reverse insertion and insertion between dissimilar contacts

Applications:
• Electronic equipment • Office machines • Industrial equipment • Consumer equipment

Specifications:
• UL: E52653 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 20% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 20mV maximum and 1mA, 30mΩ maximum

Materials:
• Insulator: Polyamide, white, UL94V-0 (header insulator: beige and retainer insulator: black) • Contacts: Crimping: Phosphor copper with tin plating • Header: Brass with solder plating

Fig. 1

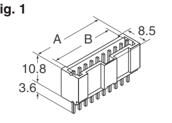

Fig. 2

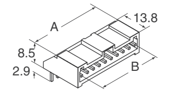

Fig. 3

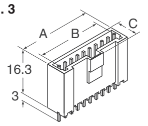

Fig. 4

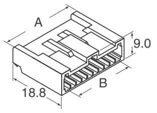

Fig. 5

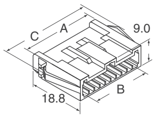

Fig. 6

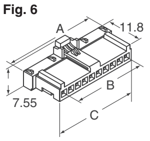

Fig. 7

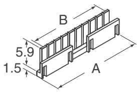

Fig.	No. of Contacts	Dimensions – (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers (Tin Plating)									
Vertical									
1	9	25.0	20.0	—	H3598-ND	.71	10.65	33.37	DF1EC-9P-2.5DSA
Vertical — RoHS Compliant									
1	2	7.5	2.5	—	H11073-ND	.80	14.44	47.25	DF1EC-2P-2.5DSA(05)
	3	10.0	5.0	—	H11074-ND	.91	16.50	54.00	DF1EC-3P-2.5DSA(05)
	4	12.5	7.5	—	H11075-ND	.99	17.88	58.50	DF1EC-4P-2.5DSA(05)
	5	15.0	10.0	—	H11076-ND	1.10	19.94	65.25	DF1EC-5P-2.5DSA(05)
	6	17.5	12.5	—	H11077-ND	1.25	22.69	74.25	DF1EC-6P-2.5DSA(05)
	7	20.0	15.0	—	H11078-ND	1.41	25.44	83.25	DF1EC-7P-2.5DSA(05)
	8	22.5	17.5	—	H11079-ND	1.48	26.81	87.75	DF1EC-8P-2.5DSA(05)
	9	25.0	20.0	—	H11080-ND	1.52	27.50	90.00	DF1EC-9P-2.5DSA(05)
	10	27.5	22.5	—	H11081-ND	1.60	28.88	94.50	DF1EC-10P-2.5DSA(05)
	11	30.0	25.0	—	H11082-ND	1.82	33.00	108.00	DF1EC-11P-2.5DSA(05)
	12	32.5	27.5	—	H11083-ND	1.82	33.00	108.00	DF1EC-12P-2.5DSA(05)
	13	35.0	30.0	—	H11084-ND	1.66	31.88	102.00	DF1EC-13P-2.5DSA(05)
	14	37.5	32.5	—	H11085-ND	1.69	32.50	104.00	DF1EC-14P-2.5DSA(05)
	15	40.0	35.0	—	H11086-ND	1.72	33.13	106.00	DF1EC-15P-2.5DSA(05)
Right Angle — RoHS Compliant									
2	2	7.5	2.5	—	H11059-ND	.62	11.14	36.45	DF1E-2P-2.5DS(05)
	3	10.0	5.0	—	H11060-ND	.72	13.06	42.75	DF1E-3P-2.5DS(05)
	4	12.5	7.5	—	H11061-ND	.76	13.75	45.00	DF1E-4P-2.5DS(05)
	5	15.0	10.0	—	H11062-ND	.84	15.13	49.50	DF1E-5P-2.5DS(05)
	6	17.5	12.5	—	H11063-ND	.99	17.88	58.50	DF1E-6P-2.5DS(05)
	7	20.0	15.0	—	H11064-ND	1.06	19.25	63.00	DF1E-7P-2.5DS(05)
	8	22.5	17.5	—	H11065-ND	1.10	19.94	65.25	DF1E-8P-2.5DS(05)
	9	25.0	20.0	—	H11066-ND	1.18	21.31	69.75	DF1E-9P-2.5DS(05)
	10	27.5	22.5	—	H11067-ND	1.25	22.69	74.25	DF1E-10P-2.5DS(05)
	12	32.5	27.5	—	H11069-ND	1.56	28.19	92.25	DF1E-12P-2.5DS(05)
	15	40.0	35.0	—	H11072-ND	1.75	31.63	103.50	DF1E-15P-2.5DS(05)
Vertical for Potting									
3	3	10.0	5.0	7.8	H3606-ND	.48	7.20	22.56	DF1EG-3P-2.5DSA
Vertical for Potting — RoHS Compliant									
3	2	7.5	2.5	7.8	H11087-ND	.73	10.95	34.31	DF1EG-2P-2.5DSA(05)
	3	10.0	5.0	7.8	H11088-ND	.68	12.38	40.50	DF1EG-3P-2.5DSA(05)
	4	12.5	7.5	7.8	H11089-ND	.84	15.13	49.50	DF1EG-4P-2.5DSA(05)
	5	15.0	10.0	8.0	H11090-ND	1.03	18.56	60.75	DF1EG-5P-2.5DSA(05)
	6	17.5	12.5	8.0	H11091-ND	1.14	20.63	67.50	DF1EG-6P-2.5DSA(05)
	7	20.0	15.0	8.0	H11092-ND	1.25	22.69	74.25	DF1EG-7P-2.5DSA(05)
	8	22.5	17.5	8.0	H11093-ND	1.41	25.44	83.25	DF1EG-8P-2.5DSA(05)
	9	25.0	20.0	8.0	H11094-ND	1.56	28.19	92.25	DF1EG-9P-2.5DSA(05)
	10	27.5	22.5	8.0	H11095-ND	1.75	31.63	103.50	DF1EG-10P-2.5DSA(05)
	11	30.0	25.0	8.0	H11096-ND	1.63	31.25	100.00	DF1EG-11P-2.5DSA(05)
In-Line Plugs — RoHS Compliant									
4	2	8.0	2.5	—	H3724-ND	.57	10.31	33.75	DF1EA-2EP-2.5C
	3	10.5	5.0	—	H3725-ND	.61	11.00	36.00	DF1EA-3EP-2.5C
	4	13.0	7.5	—	H3726-ND	.65	11.83	38.70	DF1EA-4EP-2.5C
	5	15.5	10.0	—	H3727-ND	.72	13.06	42.75	DF1EA-5EP-2.5C
	6	18.0	12.5	—	H3728-ND	.76	13.75	45.00	DF1EA-6EP-2.5C
	7	20.5	15.0	—	H3729-ND	.84	15.13	49.50	DF1EA-7EP-2.5C
	8	23.0	17.5	—	H3730-ND	.87	15.81	51.75	DF1EA-8EP-2.5C
	9	25.5	20.0	—	H3731-ND	.91	16.50	54.00	DF1EA-9EP-2.5C
	10	28.0	22.5	—	H3732-ND	.95	17.19	56.25	DF1EA-10EP-2.5C
Panel Mount Lock Type									
5	2	8.0	2.5	15.0	H3745-ND	.57	10.31	33.75	DF1E-2EP-2.5C
	4	13.0	7.5	20.0	H3747-ND	.65	11.83	38.70	DF1E-4EP-2.5C
	7	20.5	15.0	27.5	H3750-ND	.84	15.13	49.50	DF1E-7EP-2.5C
	10	28.0	22.5	35.0	H3753-ND	.95	17.19	56.25	DF1E-10EP-2.5C
Sockets — RoHS Compliant									
6	2	8.0	2.5	5.4	H3767-ND	.29	3.43	10.25	DF1E-2S-2.5C
	3	10.5	5.0	7.9	H3768-ND	.32	3.85	11.50	DF1E-3S-2.5C
	4	13.0	7.5	10.4	H3769-ND	.35	4.19	12.50	DF1E-4S-2.5C
	5	15.5	10.0	12.9	H3770-ND	.38	4.52	13.50	DF1E-5S-2.5C
	6	18.0	12.5	15.4	H3771-ND	.55	6.62	19.75	DF1E-6S-2.5C
	7	20.5	15.0	17.9	H3772-ND	.43	6.38	19.98	DF1E-7S-2.5C
	8	23.0	17.5	20.4	H3773-ND	.45	6.75	21.15	DF1E-8S-2.5C
	9	25.5	20.0	22.9	H3774-ND	.50	7.43	23.27	DF1E-9S-2.5C
	10	28.0	22.5	25.4	H3775-ND	.52	7.73	24.21	DF1E-10S-2.5C
	11	30.5	25.0	27.9	H3776-ND	.70	10.43	32.67	DF1E-11S-2.5C
	12	33.0	27.5	30.4	H3777-ND	.71	10.58	33.14	DF1E-12S-2.5C
	13	35.5	30.0	32.9	H3778-ND	.74	11.03	34.55	DF1E-13S-2.5C
	14	38.0	32.5	35.4	H3779-ND	.58	10.52	34.43	DF1E-14S-2.5C
	15	40.5	35.0	37.9	H3780-ND	.60	10.79	35.33	DF1E-15S-2.5C

Fig.	No. of Contacts	Dimensions – (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Retainers — RoHS Compliant								
7	2	8.0	2.5	H11614-ND	.53	6.37	19.00	DF1E-2RS/P-2.5
	3	10.5	5.0	H11615-ND	.41	6.15	19.27	DF1E-3RS/P-2.5
	4	13.0	7.5	H11616-ND	.44	6.53	20.45	DF1E-4RS/P-2.5
	5	15.5	10.0	H11617-ND	.46	6.90	21.62	DF1E-5RS/P-2.5
	6	18.0	12.5	H11618-ND	.50	7.50	23.50	DF1E-6RS/P-2.5
	7	20.5	15.0	H11619-ND	.52	7.80	24.44	DF1E-7RS/P-2.5
	8	23.0	17.5	H11620-ND	.55	8.18	25.62	DF1E-8RS/P-2.5
	9	25.5	20.0	H11621-ND	.58	8.63	27.03	DF1E-9RS/P-2.5
	10	28.0	22.5	H11622-ND	.61	9.08	28.44	DF1E-10RS/P-2.5

Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing 1	25	100	Hirose Part No.	Cut Tape‡ Pricing 1,000	3,000	T & R † Pricing 10,000	Hirose Part No.
Plug Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3851-ND	.26	2.83	7.98	DF1E-2022PC	—	—	—	—
24-28	H3853-ND	.29	3.12	8.80	DF1E-2428PC	54.00	50.40/M	24.00/M	DF1E-2428PCF
30	H3854-ND	.24	2.63	7.43	DF1E-30PC	—	—	—	—
Socket Crimping Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3852-ND	.30	3.22	9.08	DF1E-2022SC	55.50	51.80/M	26.00/M	DF1E-2022SCF
20-22	H3828-ND	.24	2.50	6.20	DF1B-2022SC	38.40	34.80/M	20.00/M	DF1B-2022SCF
24-28	H3832-ND	.24	2.50	6.20	DF1B-2428SC	38.40	34.80/M	20.00/M	DF1B-2428SCF
30	H3848-ND	.24	2.50	6.20	DF1B-30SC	—	—	—	—

‡ For Cut Tape part number, change -ND to CT-ND. † For Tape and Reel part number, change -ND to TR-ND.

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimping Tools			
20-22AWG, Pin	H9942-ND	1179.10	HT102-DF1BE-2022P
24-28AWG, Pin	H9943-ND	1179.10	HT102/DF1BE-2028P
30AWG, Pin	H9944-ND	1164.80	HT102/DF1BE-30P
20-22AWG, DF1E Socket	H9941-ND	1129.70	HT102/DF1E-2022S
20-22AWG, DF1B Socket	H9936-ND	865.80	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	887.90	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	887.90	DF1B-TA30SHC
Extraction Tool			
Crimp Pin and Socket	H9996-ND	3.16	DF-C-P0(B)

HIROSE ELECTRIC CO., LTD.

DF7 Series Connector

3.96mm Pitch Miniature Connectors for Secondary Power Supplies (UL, C-UL and TÜV Approved Items)

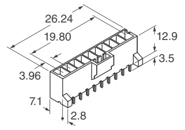

Features:

- Positive locking feature; a complete locking function utilizing an internal system is used in these connectors. This prevents release due to external shock.
- Usable at maximum current capacity. A maximum current carrying capacity of 10A is permitted when 16AWG wire is used.

Applications:

- Secondary power supply circuits of a wide variety of electronic, office, industrial, and consumer equipment.

Specifications:

- Rated Current: 22AWG: 4A, 20AWG: 5A, 18AWG: 7A and 16AWG: 10A
- Rated Voltage: C-UL; AC600V TÜV; 7.92mm pitch - AC600V, 3.96mm pitch - AC300V
- File No. C-UL: E52653 TUV: R9750437 • Contact Resistance: 10mΩ or less (initial)
- Insulation Resistance: 1,000MΩ or greater
- Single Unit Insertion and Withdrawal Life: 0.3 N minimum, 4.5 N maximum • Insertion/ Withdrawal Life: 20mΩ or less

Materials:

- Headers: Insulation, polyamide (glass strengthened product), natural (beige), UL94V-0
- Contacts: copper alloy with tin or gold plating
- In-Line Plugs: Insulation, polyamide resin, natural (white), UL94V-0
- Retainers: Insulation, polyamide resin, black, UL94V-0
- Crimp Terminals: Contacts, copper alloy with tin or gold plating

No. of Contacts	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Header					
Vertical — Tin Plating					
6	H10831-ND	1.29	23.38	76.50	DF7-6P-3.96DSA(25)

Crimp Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimper for DF7 Series 16-18AWG	H9986-ND	1547.00	HT104/DF7-1618
Manual Crimper for DF7 Series 20-22AWG	H9987-ND	1547.00	HT104/DF7-2022

Power Supply Connectors – PX Series

Features:

- Power supply connector for high-current withstands voltage of 2200V AC maximum and 10A/contact (60A/6 contacts) of rated current. • Housing design prevents incorrect insertion; opening section is designed to prevent reverse insertion and mating direction is easily checked. The opening section is keyed to prevent misalignment of plugs in parallel applications. • Reliable contact structure; three point contact, gold plated contacts (standard) with high-level environmental resistance, contact spring guard structure, structure prevents retainer deformation.

Specifications:

- Temperature Range: -55°C ~ 105°C • Voltage: AC600V • Current: 10A • Contact Resistance: 10mΩ maximum measured at 100mA • Insulation Resistance: 1000MΩ minimum measured at DC 500V

Materials:

- Contacts: Copper alloy, gold plating • Insulator: PBT resin (UL 94V-0) • Metal Fixture: Copper alloy, solder plating

Dimensions in mm

Fig. 1 - Receptacle

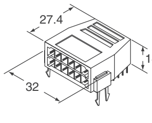

Fig. 2 - Plug

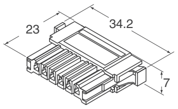

Note: Two plugs are needed for each receptacle.

Fig. 3 - Plug Holder Cover

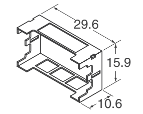

Note: Cover holds two plugs.

Fig.	No. of Contacts	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	H11376-ND	5.68	4.71	3.92	PX10-AD4WP(50)
	12	H11375-ND	6.21	5.14	4.28	PX10-AF6WP(50)
2	4	H10071-ND	1.98	1.65	1.38	PX50-AD4S
	6	H10072-ND	2.47	2.06	1.71	PX50-AF6S
3	6	H10074-ND	2.47	2.06	1.71	PX-6WS-CV
—	Female Terminal, 16-18AWG	H11377-ND	.59	.49	.39	PX50-SC-131(50)

DF5 Series Connectors

5mm Pitch Miniature Connectors for Secondary Power Supplies

Features: • Capable of potting 9mm maximum • Outer lock system employs full lock mechanism

Applications: • Business machines, industrial equipment, consumer appliances (hot water supply, washing machines, refrigerator), etc.

Specifications: • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 1500VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 100mA, 30mΩ maximum • Voltage Rating: 500VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 20% ~ 80% • Storage Temperature Range: -10°C ~ 60°C • Storage Humidity Range: 40% ~ 70%

Materials: • Crimping Socket Insulator: Polyamide, white, UL 94V-0 • Crimping Contact for Socket Contact: Phosphor bronze, tin plating • Pin Header Insulator: Polyamide, beige, UL94V-0 • Pin Header Contact: Brass, tin leading

Dim. in mm

Fig. 1

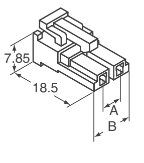

Fig. 2

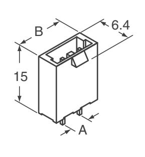

Fig. 3

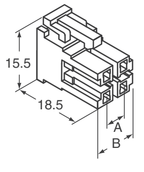

Fig. 4

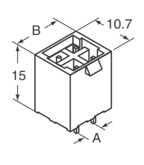

	No. of Rows	No. of Contacts	AWG #18	AWG #20	AWG #22
Current Rating	Single Row	2 ~ 10	8A	6A	5A
	Double Row	4	8A	6A	5A
	Double Row	6	8A	6A	5A
	Double Row	8	7A	6A	5A
	Double Row	10	7A	6A	5A
	Double Row	12	7A	6A	4A
	Double Row	14	7A	5A	4A
	Double Row	16	7A	5A	4A

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Single Row Socket								
1	2	5.0	10.5	H1900-ND	.42	5.03	15.00	DF5A-2S-5C
	3	10.0	15.5	H1901-ND	.45	6.75	21.15	DF5A-3S-5C
	4	15.0	20.5	H1902-ND	.50	7.50	23.50	DF5A-4S-5C
	5	20.0	25.5	H1903-ND	.50	7.50	23.50	DF5A-5S-5C
	6	25.0	30.5	H1904-ND	.55	8.25	25.85	DF5A-6S-5C
	7	30.0	35.5	H1905-ND	.70	10.50	32.90	DF5A-7S-5C
	8	35.0	40.5	H1906-ND	.57	10.31	33.75	DF5A-8S-5C
	9	40.0	45.5	H1907-ND	.57	10.31	33.75	DF5A-9S-5C
	10	45.0	50.5	H1908-ND	.61	11.00	36.00	DF5A-10S-5C
Single Row Pin Header								
2	2	5.0	12.5	H10281-ND	.50	7.50	23.50	DF5A-2P-5DSA(05)
	3	10.0	17.5	H10282-ND	.70	10.50	32.90	DF5A-3P-5DSA(05)
	4	15.0	22.5	H10283-ND	.61	11.00	36.00	DF5A-4P-5DSA(05)
	5	20.0	27.5	H10284-ND	.72	13.06	42.75	DF5A-5P-5DSA(05)
	6	25.0	32.5	H10285-ND	.84	15.13	49.50	DF5A-6P-5DSA(05)
	7	30.0	37.5	H10286-ND	1.03	18.56	60.75	DF5A-7P-5DSA(05)
	8	35.0	42.5	H10287-ND	1.14	20.63	67.50	DF5A-8P-5DSA(05)
	9	40.0	47.5	H10288-ND	1.29	23.38	76.50	DF5A-9P-5DSA(05)
	10	45.0	52.5	H10289-ND	1.37	24.75	81.00	DF5A-10P-5DSA(05)
Double Row Socket								
3	4	5.0	10.5	H1918-ND	.40	6.00	18.80	DF5A-4DS-5C
	6	10.0	15.5	H1919-ND	.45	6.75	21.15	DF5A-6DS-5C
	8	15.0	20.5	H1920-ND	.65	9.75	30.55	DF5A-8DS-5C
	10	20.0	25.5	H1921-ND	.70	10.50	32.90	DF5A-10DS-5C
	12	25.0	30.5	H1922-ND	.76	13.75	45.00	DF5A-12DS-5C
	14	30.0	35.5	H1923-ND	.80	14.44	47.25	DF5A-14DS-5C
	16	35.0	40.5	H1924-ND	.87	15.81	51.75	DF5A-16DS-5C
Double Row Pin Header								
4	4	5.0	12.5	H10290-ND	.65	11.69	38.25	DF5A-4DP-5DSA(05)
	6	10.0	17.5	H10291-ND	.84	15.13	49.50	DF5A-6DP-5DSA(05)
	8	15.0	22.5	H10292-ND	1.14	20.63	67.50	DF5A-8DP-5DSA(05)
	10	20.0	27.5	H10293-ND	1.33	24.06	78.75	DF5A-10DP-5DSA(05)
	12	25.0	32.5	H10294-ND	1.71	30.94	101.25	DF5A-12DP-5DSA(05)
	14	30.0	37.5	H10295-ND	1.63	31.25	100.00	DF5A-14DP-5DSA(05)
	16	35.0	42.5	H10296-ND	1.79	34.38	110.00	DF5A-16DP-5DSA(05)

Crimp Tools/Contact

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Crimp Tool UL1007 18-22AWG	H9918-ND	1249.30	DF5-1822/CR-HT
Crimp Tool UL1015 18-22AWG	H9919-ND	1249.30	DF5A-1822/CR-HT
Socket Contact, Tin, 18-22AWG	H11679CT-ND◆ ***NEW!***	.23	DF5-1822SCF
Socket Contact, Tin, 18-22AWG	H11679TR-ND◆ ***NEW!***	169.00/5,000	DF5-1822SCF

◆ *RoHS Compliant*

HRS
HIROSE ELECTRIC CO., LTD.

DF22 Series Connectors

7.92mm Pitch Connectors for High-Current Internal Power Supplies

No. of Con.	Rated Current 12AWG	14AWG	16AWG
2	20A	18A	15A
3	20A	18A	15A
4	18A	15A	13A
5	18A	15A	13A

Features: • 20A maximum current capacity. The connector can carry a maximum current of 20A with 12AWG wire. • Secure latch mechanism: the fully shrouded latch mechanism is resistant to accidental unlatching from shock and vibration.

Applications: Consumer-electronics and power supplies for electronic devices, business machines, and industrial machinery

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Contact Resistance: 5mΩ or less (initial) • Insulation Resistance: 1,000MΩ or more

Materials: • Crimp Socket: Insulation, polyimide resin, natural (white), UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)

Fig. 1

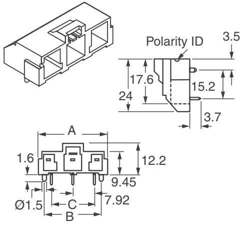

Fig. 2

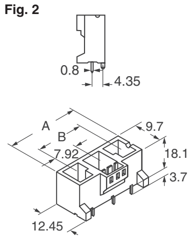

Fig. 3

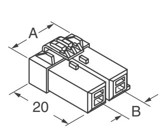

Polarizing Options

Style A — Standard Type

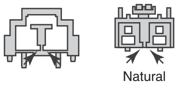

Style B — R Type, Black

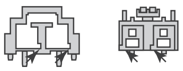

Style C — L Type, Red

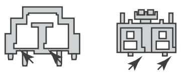

Fig.	No. of Contacts	Dimension (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Right Angle									
1A	3	27.72	22.92	15.84	H2777-ND	.97	17.60	57.60	DF22-3P-7.92DS
Right Angle — RoHS Compliant									
1A	2	19.80	15.00	7.92	H10702-ND	.90	16.36	53.55	DF22-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10703-ND	1.28	23.24	76.05	DF22-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10704-ND	1.55	27.98	91.58	DF22-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10705-ND	1.85	33.55	109.80	DF22-5P-7.92DS(05)
1B	2	19.80	15.00	7.92	H10706-ND	1.09	19.80	64.80	DF22R-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10707-ND	1.34	24.27	79.43	DF22R-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10708-ND	1.61	29.15	95.40	DF22R-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10709-ND	1.90	34.38	112.50	DF22R-5P-7.92DS(05)
1C	2	19.80	15.00	7.92	H10710-ND	1.09	19.80	64.80	DF22L-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10711-ND	1.34	24.27	79.43	DF22L-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10712-ND	1.61	29.15	95.40	DF22L-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10713-ND	1.90	34.38	112.50	DF22L-5P-7.92DS(05)
Vertical — RoHS Compliant									
2A	2	17.22	7.92	—	H10714-ND	1.06	19.11	62.55	DF22-2P-7.92DSA(05)
	3	25.14	15.84	—	H10715-ND	1.52	27.43	89.78	DF22-3P-7.92DSA(05)
	4	33.06	23.76	—	H10716-ND	1.64	29.63	96.98	DF22-4P-7.92DSA(05)
	5	40.98	31.68	—	H10717-ND	1.88	34.10	111.60	DF22-5P-7.92DSA(05)
2B	2	17.22	7.92	—	H10718-ND	1.08	19.53	63.90	DF22R-2P-7.92DSA(05)
	3	25.14	15.84	—	H10719-ND	1.40	25.30	82.80	DF22R-3P-7.92DSA(05)
	4	33.06	23.76	—	H10720-ND	1.64	29.63	96.98	DF22R-4P-7.92DSA(05)
	5	40.98	31.68	—	H10721-ND	1.88	34.10	111.60	DF22R-5P-7.92DSA(05)
2C	2	17.22	7.92	—	H10722-ND	1.10	19.94	65.25	DF22L-2P-7.92DSA(05)
	3	25.14	15.84	—	H10723-ND	1.40	25.30	82.80	DF22L-3P-7.92DSA(05)
	4	33.06	23.76	—	H10724-ND	1.64	29.63	96.98	DF22L-4P-7.92DSA(05)
	5	40.98	31.68	—	H10725-ND	1.88	34.10	111.60	DF22L-5P-7.92DSA(05)
Crimp Socket Housing — RoHS Compliant									
3A	2	15.50	7.92	—	H2784-ND	.43	5.11	15.25	DF22-2S-7.92C(28)
	3	23.42	15.84	—	H2785-ND	.75	11.25	35.25	DF22-3S-7.92C(28)
	4	31.34	23.76	—	H2786-ND	.57	8.48	26.56	DF22-4S-7.92C(28)
	5	39.26	31.68	—	H2787-ND	.66	9.83	30.79	DF22-5S-7.92C(28)
3B	2	15.50	7.92	—	H1615-ND	.45	5.36	16.00	DF22R-2S-7.92C(28)
	3	23.42	15.84	—	H1618-ND	.54	8.10	25.38	DF22R-3S-7.92C(28)
	4	31.34	23.76	—	H1621-ND	.66	9.83	30.79	DF22R-4S-7.92C(28)
	5	39.26	31.68	—	H1624-ND	.57	10.31	33.75	DF22R-5S-7.92C(28)
3C	2	15.50	7.92	—	H1603-ND	.53	6.37	19.00	DF22L-2S-7.92C(28)
	3	23.42	15.84	—	H1606-ND	.54	8.10	25.38	DF22L-3S-7.92C(28)
	4	31.34	23.76	—	H1609-ND	.67	10.05	31.49	DF22L-4S-7.92C(28)
	5	39.26	31.68	—	H1612-ND	.58	10.45	34.20	DF22L-5S-7.92C(28)

Contacts and Crimp Tools

UL Style	AWG	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape and Reel† Qty.	Pricing	Hirose Part No.
UL1430	14-16	H2788CT-ND◆	—	2.53	7.36	12.65	2,500	64.00/M	DF22-1416SCF
UL1015	14-16	H2789CT-ND◆	—	2.04	6.82	11.75	2,000	63.00/M	DF22A-1416SCF
UL1015	10-12	HR1173CT-ND◆	—	3.00	10.01	17.25	2,000	93.00/M	DF22A-1012SCF
Tools									
UL1430	14-16	HR1168-ND	1365.00	—	—	—	—	—	HT104/DF22-1416
UL1015	14-16	HR1169-ND	1365.00	—	—	—	—	—	HT104/DF22A-1416
UL1015	10-12	HR1167-ND	1378.00	—	—	—	—	—	HT103/DF22A-1012

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

DF33 Series Connectors

RoHS COMPLIANT

3.3mm Pitch Connectors for Internal Power Supplies

Fig. 1

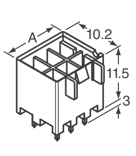

Fig. 2

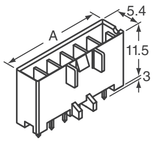

Fig. 3

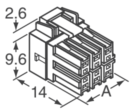

Fig. 4

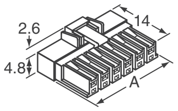

Features: • Interior lock protects mated connectors from accidental disconnection • Built-in posts assure correct connector placement and orientation on the board • Each contact is completely surrounded by the insulator housing electrically isolating it from adjacent contacts

Applications: Office equipment, power supplies for industrial, medical and instrumentation applications, variety of consumer electronic, and electrical applications.

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Current Rating: 5A • Voltage Rating: AC/DC 500V • Contact Resistance 10mΩ max. • Insulation Resistance: 1,000MΩ min. • Withstanding voltage: No flashover or Insulator breakdown • Durability (mating/unmating): Contact resistance of 20mΩ max., 30 cycles

Materials: • Sockets: Insulator, polyamide, natural white, UL94V-0 • Crimp Contacts: Copper alloy, tin plated • Header Insulator: Polyamide (glass reinforced), natural beige, UL94V-0 • Header Contacts: Copper alloy, tin plated • Retainer: PBT, black, UL94V-0

Fig.	No. of Contacts	Dimension A (mm)	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Vertical Headers							
1	4	8.4	H11637-ND	.57	10.31	33.75	DF33-4DP-3.3DSA(24)
	6	11.7	H11638-ND	.68	12.38	40.50	DF33-6DP-3.3DSA(24)
	8	15.0	H11639-ND	.84	15.13	49.50	DF33-8DP-3.3DSA(24)
	10	18.3	H11640-ND	.95	17.19	56.25	DF33-10DP-3.3DSA(24)
	12	21.6	H11641-ND	1.10	19.94	65.25	DF33-12DP-3.3DSA(24)
2	2	8.4	H11652-ND	.60	9.00	28.20	DF33-2P-3.3DSA(24)
	3	11.7	H11653-ND	.57	10.31	33.75	DF33-3P-3.3DSA(24)
	4	15.0	H11654-ND	.61	11.00	36.00	DF33-4P-3.3DSA(24)
	5	18.3	H11655-ND	.68	12.38	40.50	DF33-5P-3.3DSA(24)
	6	21.6	H11656-ND	.76	13.75	45.00	DF33-6P-3.3DSA(24)
Crimp Socket Housings							
3	4	7.8	H11642-ND	.50	5.95	17.75	DF33-4DS-3.3C
	6	11.1	H11643-ND	.55	6.53	19.50	DF33-6DS-3.3C
	8	14.4	H11644-ND	.43	6.38	19.98	DF33-8DS-3.3C
	10	17.7	H11645-ND	.47	6.98	21.86	DF33-10DS-3.3C
	12	21.0	H11646-ND	.50	7.50	23.50	DF33-12DS-3.3C
4	2	7.8	H11657-ND	.46	5.53	16.50	DF33-2S-3.3C
	3	11.1	H11658-ND	.50	5.95	17.75	DF33-3S-3.3C
	4	14.4	H11659-ND	.53	6.28	18.75	DF33-4S-3.3C
	5	17.7	H11660-ND	.55	6.62	19.75	DF33-5S-3.3C
	6	21.0	H11661-ND	.42	6.30	19.74	DF33-6S-3.3C
Retainers							
—	4	—	H11647-ND	.40	4.77	14.25	DF33-4RDS-3.3
	6	—	H11648-ND	.42	5.03	15.00	DF33-6RDS-3.3
	8	—	H11649-ND	.44	5.28	15.75	DF33-8RDS-3.3
	10	—	H11650-ND	.48	5.70	17.00	DF33-10RDS-3.3
	12	—	H11651-ND	.50	5.95	17.75	DF33-12RDS-3.3
	2	—	H11662-ND	.34	4.10	12.25	DF33-2RS-3.3
	3	—	H11663-ND	.37	4.44	13.25	DF33-3RS-3.3
	4	—	H11664-ND	.39	4.69	14.00	DF33-4RS-3.3
	5	—	H11665-ND	.41	4.94	14.75	DF33-5RS-3.3
	6	—	H11666-ND	.44	5.28	15.75	DF33-6RS-3.3
Crimp Sockets							
Tin, 20-22AWG			H11667-ND	.37	4.43	13.23	DF33A-2022SC
Tin, 20-22AWG			H11667TR-ND†	312.50/10,000			DF33A-2022SCF
Tools							
Extraction Tool for DF33 Sockets			H11668-ND	34.50/1			DF33-C-PO
Manual Crimp Tool for DF33 Sockets			H11636-ND	1216.80/1			HT102/DF33-2022S

† Tape and Reel

DF3, DF11, DF13, DF22 Interconnect Wire (housing available)

CONTACT SPECIFICATIONS: • Rated Current: **DF3:** *24AWG:* 3A, *26 AWG:* 2A, *28AWG:* 1A **DF11:** *24-26 AWG:* 2A, *28 AWG:* 1A • Operating Temperature: -30°C ~ 85°C • Rated Voltage: AC250V • Insulation Resistance: 1000 MΩ or more • Contact Resistance: 30 mΩ or less • Insertion / Withdrawals Force: Minimum 0.3 N (30gf), Maximum 4.4 N (450gf) • Material (crimp terminal for socket): Phosphor bronze with tin or gold plating

Safety Standards: UL: E52653 and CSA: LR95109

WIRE SPECIFICATIONS: • Stranded tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade • Operating Temperature: -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007)

H□□□□–101□□–□□–ND

Hirose Cable Assmbly

SERIES
2 = DF3 Series
3 = DF11 Series
4 = DF13 Series
6 = DF22 Series

CONTACT END
A = Male/Pin
B = Female/Socket
X = Single Ended

FINISH
T = Tin
G = Gold

LENGTH OF WIRE FOR THE JUMPER
02 = 2 Inches
03 = 3 Inches
04 = 4 Inches
05 = 5 Inches
06 = 6 Inches
08 = 8 Inches
10 = 10 Inches
12 = 12 Inches

COLOR OF WIRE
A = Orange
B = Black
G = Green
L = Blue
N = Brown
R = Red
S = Gray
V = Violet
W = White
Y = Yellow

WIRE GAGE SIZE
7 = 16 AWG
9 = 18 AWG
0 = 20 AWG
2 = 22 AWG
4 = 24 AWG
6 = 26 AWG
8 = 28 AWG
1 = 30 AWG

Fig. 1

Socket to Socket

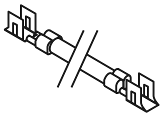

Fig. 2

Socket Single End

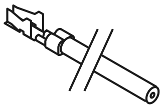

Pin to Pin

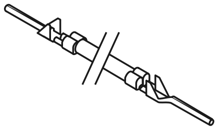

Available upon request

Pin to Socket

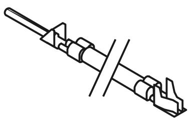

Available upon request

Pin Single End

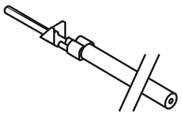

Available upon request

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
DF3 - TIN PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H2BBT-10102-□4-ND◆	.65	.48	.41
	3	H2BBT-10103-□4-ND◆	.66	.49	.42
	4	H2BBT-10104-□4-ND◆	.67	.49	.43
	5	H2BBT-10105-□4-ND◆	.68	.50	.43
	6	H2BBT-10106-□4-ND◆	.69	.51	.44
	8	H2BBT-10108-□4-ND◆	.71	.52	.45
	10	H2BBT-10110-□4-ND◆	.73	.54	.46
	12	H2BBT-10112-□4-ND◆	.75	.55	.48
2 (Socket Single End)	2	H2BXT-10102-□4-ND◆	.58	.43	.37
	3	H2BXT-10103-□4-ND◆	.59	.43	.38
	4	H2BXT-10104-□4-ND◆	.60	.44	.38
	5	H2BXT-10105-□4-ND◆	.61	.45	.39
	6	H2BXT-10106-□4-ND	.62	.46	.40
	8	H2BXT-10108-□4-ND◆	.64	.47	.41
	10	H2BXT-10110-□4-ND◆	.66	.49	.42
	12	H2BXT-10112-□4-ND◆	.68	.50	.43
26 AWG WIRE					
1 (Socket to Socket)	2	H2BBT-10102-□6-ND◆	.65	.48	.41
	3	H2BBT-10103-□6-ND◆	.66	.49	.42
	4	H2BBT-10104-□6-ND◆	.67	.50	.43
	5	H2BBT-10105-□6-ND◆	.68	.50	.44
	6	H2BBT-10106-□6-ND◆	.69	.51	.44
	8	H2BBT-10108-□6-ND◆	.71	.53	.46
	10	H2BBT-10110-□6-ND◆	.74	.54	.47
	12	H2BBT-10112-□6-ND◆	.76	.56	.48
2 (Socket Single End)	2	H2BXT-10102-□6-ND◆	.58	.43	.37
	3	H2BXT-10103-□6-ND◆	.59	.44	.38
	4	H2BXT-10104-□6-ND◆	.60	.44	.38
	5	H2BXT-10105-□6-ND◆	.61	.45	.39
	6	H2BXT-10106-□6-ND◆	.62	.46	.40
	8	H2BXT-10108-□6-ND◆	.65	.48	.41
	10	H2BXT-10110-□6-ND	.67	.49	.43
	12	H2BXT-10112-□6-ND◆	.69	.51	.44
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBT-10102-□8-ND	.65	.48	.41
	3	H2BBT-10103-□8-ND	.66	.49	.42
	4	H2BBT-10104-□8-ND	.67	.49	.43
	5	H2BBT-10105-□8-ND	.68	.50	.43
	6	H2BBT-10106-□8-ND	.69	.51	.44
	8	H2BBT-10108-□8-ND	.71	.52	.45
	10	H2BBT-10110-□8-ND	.73	.54	.47
	12	H2BBT-10112-□8-ND	.75	.56	.48
2 (Socket Single End)	2	H2BXT-10102-□8-ND	.58	.43	.37
	3	H2BXT-10103-□8-ND	.59	.44	.38
	4	H2BXT-10104-□8-ND	.60	.44	.38
	5	H2BXT-10105-□8-ND	.61	.45	.39
	6	H2BXT-10106-□8-ND	.62	.46	.40
	8	H2BXT-10108-□8-ND	.64	.47	.41
	10	H2BXT-10110-□8-ND	.66	.49	.42
	12	H2BXT-10112-□8-ND	.68	.51	.44
DF3 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H2BBG-10102-□4-ND◆	.75	.55	.48
	3	H2BBG-10103-□4-ND◆	.76	.56	.48
	4	H2BBG-10104-□4-ND◆	.77	.57	.49
	5	H2BBG-10105-□4-ND◆	.78	.58	.50
	6	H2BBG-10106-□4-ND◆	.79	.58	.50
	8	H2BBG-10108-□4-ND◆	.81	.60	.52
	10	H2BBG-10110-□4-ND	.83	.61	.53
	12	H2BBG-10112-□4-ND◆	.85	.63	.54
2 (Socket Single End)	2	H2BXG-10102-□4-ND◆	.63	.47	.40
	3	H2BXG-10103-□4-ND◆	.64	.47	.41
	4	H2BXG-10104-□4-ND	.65	.48	.41
	5	H2BXG-10105-□4-ND◆	.66	.49	.42
	6	H2BXG-10106-□4-ND◆	.67	.49	.43
	8	H2BXG-10108-□4-ND◆	.69	.51	.44
	10	H2BXG-10110-□4-ND◆	.71	.52	.45
	12	H2BXG-10112-□4-ND◆	.73	.54	.47
26 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBG-10102-□6-ND	.75	.55	.48
	3	H2BBG-10103-□6-ND	.76	.56	.49
	4	H2BBG-10104-□6-ND	.77	.57	.49
	5	H2BBG-10105-□6-ND	.78	.58	.50
	6	H2BBG-10106-□6-ND	.79	.59	.51
	8	H2BBG-10108-□6-ND	.82	.60	.52
	10	H2BBG-10110-□6-ND	.84	.62	.54
	12	H2BBG-10112-□6-ND	.86	.64	.55
2 (Socket Single End)	2	H2BXG-10102-□6-ND	.63	.47	.40
	3	H2BXG-10103-□6-ND	.64	.47	.41
	4	H2BXG-10104-□6-ND	.65	.48	.42
	5	H2BXG-10105-□6-ND	.66	.49	.42
	6	H2BXG-10106-□6-ND	.67	.50	.43
	8	H2BXG-10108-□6-ND	.70	.52	.45
	10	H2BXG-10110-□6-ND	.72	.53	.46
	12	H2BXG-10112-□6-ND	.74	.55	.47
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBG-10102-□8-ND	.75	.55	.48
	3	H2BBG-10103-□8-ND	.76	.56	.49
	4	H2BBG-10104-□8-ND	.77	.57	.49
	5	H2BBG-10105-□8-ND	.78	.58	.50
	6	H2BBG-10106-□8-ND	.79	.58	.51
	8	H2BBG-10108-□8-ND	.81	.60	.52
	10	H2BBG-10110-□8-ND	.83	.62	.53
	12	H2BBG-10112-□8-ND	.85	.63	.55
2 (Socket Single End)	2	H2BXG-10102-□8-ND	.63	.47	.40
	3	H2BXG-10103-□8-ND	.64	.47	.41
	4	H2BXG-10104-□8-ND	.65	.48	.42
	5	H2BXG-10105-□8-ND	.66	.49	.42
	6	H2BXG-10106-□8-ND	.67	.50	.43
	8	H2BXG-10108-□8-ND	.69	.51	.44
	10	H2BXG-10110-□8-ND	.71	.53	.46
	12	H2BXG-10112-□8-ND	.73	.54	.47
DF11 - TIN PLATED CONTACTS					
24 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBT-10102-□4-ND	.65	.48	.42
	3	H3BBT-10103-□4-ND	.66	.49	.42
	4	H3BBT-10104-□4-ND	.67	.50	.43
	5	H3BBT-10105-□4-ND	.68	.50	.44
	6	H3BBT-10106-□4-ND	.69	.51	.44
	8	H3BBT-10108-□4-ND	.71	.53	.46
	10	H3BBT-10110-□4-ND	.73	.54	.47
	12	H3BBT-10112-□4-ND	.75	.56	.48
2 (Socket Single End)	2	H3BXT-10102-□4-ND	.58	.43	.37
	3	H3BXT-10103-□4-ND	.59	.44	.38
	4	H3BXT-10104-□4-ND	.60	.44	.38
	5	H3BXT-10105-□4-ND	.61	.45	.39
	6	H3BXT-10106-□4-ND	.62	.46	.40
	8	H3BXT-10108-□4-ND	.64	.47	.41
	10	H3BXT-10110-□4-ND	.66	.49	.42
	12	H3BXT-10112-□4-ND	.68	.50	.44
26 AWG WIRE					
1 (Socket to Socket)	2	H3BBT-10102-□6-ND◆	.65	.48	.42
	3	H3BBT-10103-□6-ND◆	.66	.49	.42
	4	H3BBT-10104-□6-ND◆	.68	.50	.43
	5	H3BBT-10105-□6-ND◆	.69	.51	.44
	6	H3BBT-10106-□6-ND	.70	.52	.45
	8	H3BBT-10108-□6-ND◆	.72	.53	.46
	10	H3BBT-10110-□6-ND◆	.74	.55	.47
	12	H3BBT-10112-□6-ND◆	.76	.56	.49

◆ ***RoHS Compliant***

(Continued)

DF3, DF11, DF13, DF22 Interconnect Wire (housing available) *(Cont.)*

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
2 (Socket Single End)	2	H3BXT-10102-☐6-ND◆	.58	.43	.37
	3	H3BXT-10103-☐6-ND◆	.59	.44	.38
	4	H3BXT-10104-☐6-ND◆	.60	.45	.39
	5	H3BXT-10105-☐6-ND◆	.62	.46	.39
	6	H3BXT-10106-☐6-ND◆	.63	.46	.40
	8	H3BXT-10108-☐6-ND◆	.65	.48	.41
	10	H3BXT-10110-☐6-ND◆	.67	.50	.43
	12	H3BXT-10112-☐6-ND◆	.69	.51	.44
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBT-10102-☐8-ND	.65	.48	.42
	3	H3BBT-10103-☐8-ND	.66	.49	.42
	4	H3BBT-10104-☐8-ND	.67	.50	.43
	5	H3BBT-10105-☐8-ND	.68	.51	.44
	6	H3BBT-10106-☐8-ND	.69	.51	.44
	8	H3BBT-10108-☐8-ND	.72	.53	.46
	10	H3BBT-10110-☐8-ND	.74	.54	.47
	12	H3BBT-10112-☐8-ND	.76	.56	.48
2 (Socket Single End)	2	H3BXT-10102-☐8-ND	.58	.43	.37
	3	H3BXT-10103-☐8-ND	.59	.44	.38
	4	H3BXT-10104-☐8-ND	.60	.45	.38
	5	H3BXT-10105-☐8-ND	.61	.45	.39
	6	H3BXT-10106-☐8-ND	.62	.46	.40
	8	H3BXT-10108-☐8-ND	.64	.48	.41
	10	H3BXT-10110-☐8-ND	.67	.49	.43
	12	H3BXT-10112-☐8-ND	.69	.51	.44
DF11 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H3BBG-10102-☐4-ND◆	.79	.58	.50
	3	H3BBG-10103-☐4-ND◆	.80	.59	.51
	4	H3BBG-10104-☐4-ND◆	.81	.60	.52
	5	H3BBG-10105-☐4-ND◆	.82	.61	.52
	6	H3BBG-10106-☐4-ND◆	.83	.61	.53
	8	H3BBG-10108-☐4-ND◆	.85	.63	.54
	10	H3BBG-10110-☐4-ND◆	.87	.64	.56
	12	H3BBG-10112-☐4-ND◆	.89	.66	.57
2 (Socket Single End)	2	H3BXG-10102-☐4-ND◆	.65	.48	.41
	3	H3BXG-10103-☐4-ND◆	.66	.49	.42
	4	H3BXG-10104-☐4-ND◆	.67	.49	.43
	5	H3BXG-10105-☐4-ND◆	.68	.50	.43
	6	H3BXG-10106-☐4-ND◆	.69	.51	.44
	8	H3BXG-10108-☐4-ND	.71	.52	.45
	10	H3BXG-10110-☐4-ND◆	.73	.54	.47
	12	H3BXG-10112-☐4-ND◆	.75	.55	.48
26 AWG WIRE					
1 (Socket to Socket)	2	H3BBG-10102-☐6-ND◆	.79	.58	.50
	3	H3BBG-10103-☐6-ND◆	.80	.59	.51
	4	H3BBG-10104-☐6-ND◆	.81	.60	.52
	5	H3BBG-10105-☐6-ND◆	.82	.61	.53
	6	H3BBG-10106-☐6-ND◆	.83	.62	.53
	8	H3BBG-10108-☐6-ND◆	.86	.63	.55
	10	H3BBG-10110-☐6-ND◆	.88	.65	.56
	12	H3BBG-10112-☐6-ND◆	.90	.67	.57

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
2 (Socket Single End)	2	H3BXG-10102-☐6-ND◆	.65	.48	.42
	3	H3BXG-10103-☐6-ND	.66	.49	.42
	4	H3BXG-10104-☐6-ND◆	.67	.50	.43
	5	H3BXG-10105-☐6-ND◆	.68	.51	.44
	6	H3BXG-10106-☐6-ND◆	.69	.51	.44
	8	H3BXG-10108-☐6-ND	.72	.53	.46
	10	H3BXG-10110-☐6-ND	.74	.55	.47
	12	H3BXG-10112-☐6-ND◆	.76	.56	.49
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBG-10102-☐8-ND	.79	.58	.50
	3	H3BBG-10103-☐8-ND	.80	.59	.51
	4	H3BBG-10104-☐8-ND	.81	.60	.52
	5	H3BBG-10105-☐8-ND	.82	.61	.52
	6	H3BBG-10106-☐8-ND	.83	.61	.53
	8	H3BBG-10108-☐8-ND	.85	.63	.54
	10	H3BBG-10110-☐8-ND	.87	.64	.56
	12	H3BBG-10112-☐8-ND	.89	.66	.57
2 (Socket Single End)	2	H3BXG-10102-☐8-ND	.65	.48	.42
	3	H3BXG-10103-☐8-ND	.66	.49	.42
	4	H3BXG-10104-☐8-ND	.67	.50	.43
	5	H3BXG-10105-☐8-ND	.68	.50	.44
	6	H3BXG-10106-☐8-ND	.69	.51	.44
	8	H3BXG-10108-☐8-ND	.71	.53	.46
	10	H3BXG-10110-☐8-ND	.73	.54	.47
	12	H3BXG-10112-☐8-ND	.75	.56	.48
DF13 - TIN PLATED CONTACTS RoHS Compliant					
28 AWG WIRE					
1 (Socket to Socket)	2	H4BBT-10102-☐8-ND	.57	.42	.37
	3	H4BBT-10103-☐8-ND	.58	.43	.37
	4	H4BBT-10104-☐8-ND	.59	.44	.38
	5	H4BBT-10105-☐8-ND	.60	.45	.39
	6	H4BBT-10106-☐8-ND	.61	.45	.39
	8	H4BBT-10108-☐8-ND	.64	.47	.41
	10	H4BBT-10110-☐8-ND	.66	.49	.42
	12	H4BBT-10112-☐8-ND	.68	.50	.43
2 (Socket Single End)	2	H4BXT-10102-☐8-ND	.54	.40	.35
	3	H4BXT-10103-☐8-ND	.55	.41	.35
	4	H4BXT-10104-☐8-ND	.56	.42	.36
	5	H4BXT-10105-☐8-ND	.57	.42	.37
	6	H4BXT-10106-☐8-ND	.58	.43	.37
	8	H4BXT-10108-☐8-ND	.60	.45	.39
	10	H4BXT-10110-☐8-ND	.63	.46	.40
	12	H4BXT-10112-☐8-ND	.65	.48	.41
30 AWG WIRE					
1 (Socket to Socket)	2	H4BBT-10102-☐1-ND	.57	.43	.37
	3	H4BBT-10103-☐1-ND	.59	.43	.37
	4	H4BBT-10104-☐1-ND	.60	.44	.38
	5	H4BBT-10105-☐1-ND	.61	.45	.39
	6	H4BBT-10106-☐1-ND	.62	.46	.40
	8	H4BBT-10108-☐1-ND	.64	.48	.41
	10	H4BBT-10110-☐1-ND	.67	.49	.43
	12	H4BBT-10112-☐1-ND	.69	.51	.44
2 (Socket Single End)	2	H4BXT-10102-☐1-ND	.54	.40	.35
	3	H4BXT-10103-☐1-ND	.55	.41	.35
	4	H4BXT-10104-☐1-ND	.57	.42	.36
	5	H4BXT-10105-☐1-ND	.58	.43	.37
	6	H4BXT-10106-☐1-ND	.59	.44	.38
	8	H4BXT-10108-☐1-ND	.61	.45	.39
	10	H4BXT-10110-☐1-ND	.64	.47	.41
	12	H4BXT-10112-☐1-ND	.66	.49	.42

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
DF13 - GOLD PLATED CONTACTS RoHS Compliant					
28 AWG WIRE					
1 (Socket to Socket)	2	H4BBG-10102-☐8-ND	.64	.47	.41
	3	H4BBG-10103-☐8-ND	.65	.48	.42
	4	H4BBG-10104-☐8-ND	.66	.49	.42
	5	H4BBG-10105-☐8-ND	.67	.50	.43
	6	H4BBG-10106-☐8-ND	.68	.50	.44
	8	H4BBG-10108-☐8-ND	.70	.52	.45
	10	H4BBG-10110-☐8-ND	.72	.54	.46
	12	H4BBG-10112-☐8-ND	.75	.55	.48
2 (Socket Single End)	2	H4BXG-10102-☐8-ND	.58	.43	.37
	3	H4BXG-10103-☐8-ND	.59	.43	.37
	4	H4BXG-10104-☐8-ND	.60	.44	.38
	5	H4BXG-10105-☐8-ND	.61	.45	.39
	6	H4BXG-10106-☐8-ND	.62	.46	.39
	8	H4BXG-10108-☐8-ND	.64	.47	.41
	10	H4BXG-10110-☐8-ND	.66	.49	.42
	12	H4BXG-10112-☐8-ND	.68	.50	.43
30 AWG WIRE					
1 (Socket to Socket)	2	H4BBG-10102-☐1-ND	.64	.48	.41
	3	H4BBG-10103-☐1-ND	.65	.48	.42
	4	H4BBG-10104-☐1-ND	.67	.49	.43
	5	H4BBG-10105-☐1-ND	.68	.50	.43
	6	H4BBG-10106-☐1-ND	.69	.51	.44
	8	H4BBG-10108-☐1-ND	.71	.53	.45
	10	H4BBG-10110-☐1-ND	.74	.54	.47
	12	H4BBG-10112-☐1-ND	.76	.56	.48
2 (Socket Single End)	2	H4BXG-10102-☐1-ND	.58	.43	.37
	3	H4BXG-10103-☐1-ND	.59	.44	.38
	4	H4BXG-10104-☐1-ND	.60	.44	.38
	5	H4BXG-10105-☐1-ND	.61	.45	.39
	6	H4BXG-10106-☐1-ND	.62	.46	.40
	8	H4BXG-10108-☐1-ND	.65	.48	.41
	10	H4BXG-10110-☐1-ND	.67	.50	.43
	12	H4BXG-10112-☐1-ND	.69	.51	.44
DF22 - TIN PLATED CONTACTS RoHS Compliant					
16 AWG WIRE					
1 (Socket to Socket)	2	H6BBT-10102-☐7-ND	.79	.58	.50
	3	H6BBT-10103-☐7-ND	.80	.59	.51
	4	H6BBT-10104-☐7-ND	.82	.61	.52
	5	H6BBT-10105-☐7-ND	.84	.62	.54
	6	H6BBT-10106-☐7-ND	.86	.63	.55
	8	H6BBT-10108-☐7-ND	.89	.66	.57
	10	H6BBT-10110-☐7-ND	.93	.69	.59
	12	H6BBT-10112-☐7-ND	.96	.71	.61
2 (Socket Single End)	2	H6BXT-10102-☐7-ND	.66	.48	.42
	3	H6BXT-10103-☐7-ND	.67	.50	.43
	4	H6BXT-10104-☐7-ND	.69	.51	.44
	5	H6BXT-10105-☐7-ND	.71	.52	.45
	6	H6BXT-10106-☐7-ND	.73	.54	.46
	8	H6BXT-10108-☐7-ND	.76	.56	.49
	10	H6BXT-10110-☐7-ND	.80	.59	.51
	12	H6BXT-10112-☐7-ND	.83	.61	.53

◆ ***RoHS Compliant***

LVDS Cable Assembly Development Kits

Features: • Predetermined length of 300mm • LCD connector side has a standard pin-out per the VESA specification, crimped contacts are inserted in the connector housing per the VESA specification in the Developmental Kits • Board connector side contacts are crimped on wire but not inserted into the housing. Customer populates the crimped contacts in the housing according to their requirements. **Target Markets:** • LCD Monitors • Projectors • Hand-held Units (GPS or Golfing accessories) • Test and Measurement Equipment • Gaming Industry • Music Industry

No. of Positions	Series	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
20	FI-S	670-2150-ND	10.44	7.43	6.73	FI-S20S-KITASSY-300M
30	FI-X	670-2151-ND	14.33	10.20	9.24	FI-X30HL-KITASSY-300M
41	FI-R	670-2152-ND	19.80	14.08	12.76	FI-RE41HL-KITASSY-300M
51	FI-R	670-2153-ND	23.22	16.52	14.97	FI-RE51HL-KITASSY-300M

NEW! FI-D Series

0.5mm High Speed Differential Transmission Connectors

Features: • Ground condition is reinforced to improve EMI characteristics • High speed differential transmission connectors for LCD panel

Specifications: • Contact Resistance: 70mΩ max. • Dielectric Withstanding Voltage: 500Vr.m.s. per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A/1pin • Lifetime: 30 times • Applicable Cable: Discrete (AWG#40) or Coaxial (AWG #40); Twin-Coaxial (AWG #32)

Materials/Finishes: • Contact: Copper Alloy/ Contact area: 0.76um min. Au plating over Ni; Terminal area: Sn plating over Ni • Insulator: Thermoplastic resin UL94V-0 black • Shell: Stainless steel: Sn plating over Ni

Fig. 1 — Plug

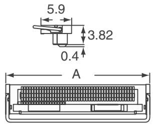

Fig. 2 — Receptacle

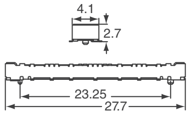

Fig. 3 — Receptacle

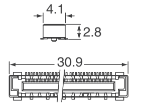

Fig.	No. of Contacts	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
				Plug					
1	44	27.8	670-2188-ND	3.17	1.92	1.64	—	—	FI-D44C2-E
	44	27.8	670-2394-1-ND‡	.36	.18	.14	8,000	90.00/M	FI-D44C2-SH-BE-8000
	50	30.8	670-1711-ND	7.68	4.48	4.10	—	—	FI-D50C2-G
				Receptacle					
2	44	—	670-2082-1-ND‡	2.88	1.73	1.64	750	1044.00	FI-TD44SB-E-R750
	44	—	670-2073-1-ND‡	4.37	2.63	2.33	1,500	2038.40/M	FI-TD44SB-LE-R1500
3	50	—	670-2198-ND	4.32	2.67	2.31	—	—	FI-TD50SB-E
				Shell for Plug					
—	50	—	670-2189-ND	.39	.20	.15	—	—	FI-D50C2-G-SH-B-8000

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

NEW! FI-G Series

0.5mm High Speed Differential Transmission Connectors

Features: • Ground performance is enhanced by the shell to shell/shell to board multipoint connection established to improve EMI characteristics • With pull bar for easy connector removal • High speed differential transmission connectors for LCD panel
Specifications: • Contact Resistance: 60mΩ max. • Dielectric Withstanding Voltage: 500Vr.m.s. per minute • Insulation Resistance: 100MΩ min. • Operating Temperature: -40°C ~ 80°C • Rated Current: 0.5A per contact • Lifetime: 30 times

Fig. 1 — Plug

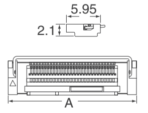

Fig. 2 — Receptacle

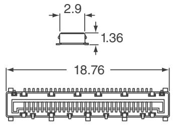

Fig. 3 — Receptacle

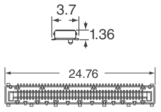

Fig.	No. of Positions	Dim. A mm	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				Plug			
1	30	22.54	670-2395-ND	3.63	2.18	1.94	FI-G30C2
	42	28.54	670-2399-ND	4.89	2.94	2.61	FI-G42C
				Receptacle			
2	30	—	670-2398-ND	12.24	8.71	7.89	FI-G30S-VF25
3	42	—	670-2190-ND	4.32	2.67	2.31	FI-G42SB-VF25
				Shell for Plug			
—	30	—	670-2396-1-ND†	.34	.18	.13	FI-G30C2-SH-B2-8000
	30	—	670-2396-2-ND‡	689.76/8,000			FI-G30C2-SH-B2-8000
	42	—	670-2400-1-ND†	.57	.29	.22	FI-G42C-SH-B-8000
	42	—	670-2400-2-ND‡	1111.16/8,000			FI-G42C-SH-B-8000

† Cut Tape ‡ Tape and Reel

FI-R and JF04

0.5mm Connectors

FI-R Series: Specifications: • Rated Current: *(Receptacle)*: 0.8A max. per contact *(Plug)*: 0.7A max. per contact • Dielectric Withstanding Voltage: AC500 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 50mΩ maximum • Operating Temperature: -40°C ~ 80°C **Materials and Finishes:** • Contact: Copper Alloy/Contact area Gold, SMT Terminal area Tin plating • Insulator: Heat resistant plastic • Shell: Stainless steel

JF04 Series: High speed serial transmission such as LVDS, TMDS (HDMI), PCI express are beginning to be widely used, not only in the personal computer market but also in various markets such as TV, consumer devices, PPC and medical device markets. At the same time in the expanding markets including LCD TV, there are strong demands for reasonably priced high speed transmission cables. JF04 is the connector harness just to answer those demands. **Features:** • 1m minimum transmission of serial signal of LVDS, TMDS etc. is possible • Matches with 100Ω differential characteristic impedance • Ground of the cable area is reinforced by the ground layer. **Specifications:** • Rated Current: FI-R type: AC, DC each 0.3A/terminal • Contact resistance: 40mΩ maximum • Insulation resistance: 100MΩ minimum • Dielectric withstanding voltage: AC250 Vr.m.s. per minute • Operating temperature range: -40°C ~ 80°C • Impedance: Connector: 100Ω ±15%, FFC: 100Ω ±10%

Fig. 1 ***NEW!***

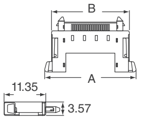

Fig. 2

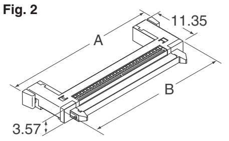

Fig. 3

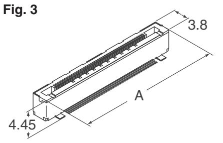

Fig. 4

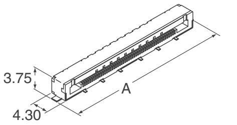

Fig. 5

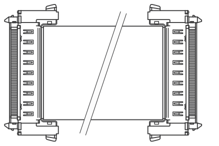

Fig.	No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				Plug				
1	21	24.95	21.25	670-2385-ND ***NEW!***	9.00	6.12	5.40	FI-RE21CL
	31	29.95	26.25	670-2193-ND ***NEW!***	3.39	2.10	1.81	FI-RE31CL
	41	34.95	31.25	670-2194-ND ***NEW!***	9.00	6.12	5.40	FI-RE41CL
	51	39.95	36.25	670-2401-ND ***NEW!***	8.78	5.97	5.27	FI-RE51CL
2	21	24.95	21.25	670-1196-ND	7.41	4.20	3.96	FI-RE21HL
	31	29.95	26.25	670-1199-ND	7.86	4.46	4.20	FI-RE31HL
	41	34.95	31.25	670-1202-ND	7.00	4.76	4.20	FI-RE41HL
	51	39.95	36.25	670-1205-ND	7.38	5.02	4.43	FI-RE51HL
				Receptacle				
3	21	20.35	—	670-2154-1-ND†	2.58	1.59	1.35	FI-RE21S-VF-R1300
	21	20.35	—	670-2154-2-ND‡	1443.50/1,300			FI-RE21S-VF-R1300
	31	25.35	—	670-1201-ND	5.76	3.36	3.08	FI-RE31S-VF
	41	30.35	—	670-1204-ND	6.24	3.64	3.33	FI-RE41S-VF
	31	25.35	—	670-2472-1-ND† ***NEW!***	3.28	1.97	1.75	FI-RE31S-VF-R1300
	31	25.35	—	670-2472-2-ND‡ ***NEW!***	1987.66/1,300			FI-RE31S-VF-R1300
	41	30.35	—	670-2388-1-ND† ***NEW!***	3.00	1.86	1.61	FI-RE41S-VF-R1300
	41	30.35	—	670-2388-2-ND‡ ***NEW!***	1822.17/1,300			FI-RE41S-VF-R1300
	51	35.35	—	670-2149-1-ND†	6.78	3.85	3.62	FI-RE51S-VF-R1300
	51	35.35	—	670-2149-2-ND‡	3967.84/1,300			FI-RE51S-VF-R1300
4	51	37.85	—	670-2192-ND ***NEW!***	12.63	8.59	7.58	FI-R51S-HF
	21	22.85	—	670-1197-1-ND†	2.47	1.41	1.32	FI-RE21S-HF
	21	22.85	—	670-1197-2-ND‡	1668.17/1,500			FI-RE21S-HF
	31	27.85	—	670-1200-ND	5.76	3.36	3.08	FI-RE31S-HF
	41	32.85	—	670-1203-ND	6.24	3.64	3.33	FI-RE41S-HF
	51	37.85	—	670-2075-ND ***NEW!***	6.23	4.24	3.74	FI-RE51S-HF
	51	37.85	—	670-1206-1-ND†	3.74	2.12	2.00	FI-RE51S-HF-R1500
	51	37.85	—	670-1206-2-ND‡	2521.65/1,500			FI-RE51S-HF-R1500
Male, Crimp, Gold Plating 30 ~ 36 AWG				670-1194-1-ND†	.30	.15	.13	FI-RC3-1A-1E-15000
				670-1194-2-ND‡	1083.37/15,000			FI-RC3-1A-1E-15000
				670-1195-1-ND†	.30	.15	.13	FI-RC3-1B-1E-15000
				670-1195-2-ND‡	1083.37/15,000			FI-RC3-1B-1E-15000
				NEW! Shell for Plug NEW!				
—	21	—	—	670-2386-1-ND†	1.34	.76	.61	FI-RE21CL-SH2-3000
	21	—	—	670-2386-2-ND‡	1408.26/3,000			FI-RE21CL-SH2-3000
	31	—	—	670-2155-1-ND†	.55	.32	.28	FI-RE31CL-SH2-3000
	31	—	—	670-2155-2-ND‡	659.86/3,000			FI-RE31CL-SH2-3000
	41	—	—	670-2195-1-ND†	1.67	.99	.79	FI-RE41CL-SH2-3000
	41	—	—	670-2195-2-ND‡	1650.73/3,000			FI-RE41CL-SH2-3000
	51	—	—	670-2196-1-ND†	1.61	1.01	.81	FI-RE51CL-SH2-3000
	51	—	—	670-2196-2-ND‡	1693.99/3,000			FI-RE51CL-SH2-3000
				Flat Cable Assemblies				
5	31	—	—	670-2237-ND ***NEW!***	9.53	6.48	5.72	JF04R0R031020AA
	41	—	—	670-2238-ND ***NEW!***	18.05	12.84	11.63	JF04R0R041020AA
	41	—	—	670-1698-ND	16.29	11.59	10.50	JF04R0R041025AA
	41	—	—	670-1699-ND	18.34	13.04	11.82	JF04R0R041035AA
	51	—	—	670-2239-ND ***NEW!***	11.28	7.67	6.77	JF04R0R051020AA
	51	—	—	670-1700-ND	18.32	13.03	11.81	JF04R0R051025AA
	51	—	—	670-1701-ND	19.73	14.04	12.72	JF04R0R051035AA
	41	—	—	670-1702-1-ND†	3.11	1.91	1.66	FI-RE41S-HF-R1500
	41	—	—	670-1702-2-ND‡	2108.13/1,500			FI-RE41S-HF-R1500

† Cut Tape ‡ Tape and Reel

FI-J, FI-JH and FI-JT Series

0.4mm Connectors

FI-J Series:

Specifications:

• Rated Current: AC, DC 0.3A per position • Rated Voltage: AC, DC 50V per position; • Dielectric Withstanding Voltage: AC250 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature Range: -40°C ~ 85°C • Applicable Cable: #42~44 AWG

Materials and Finishes:

• *(Receptacle)* Contact/Hold Down: Copper Alloy, Gold plating over Nickel • Insulator: Heat resistant plastic, UL94V-0 • Absorption Insulator: Heat resistant plastic, UL94V-0

• *(Plug)* Contact: Copper Alloy, Gold flash plating over Nickel • Insulator: Heat resistant plastic, UL94V-0 • Shell: Stainless steel, Gold plating over Nickel

FI-JH/FI-JT Series:

Specifications:

• Rated Current: AC, DC each 0.3A per position • Rated Voltage: AC, DC each 50V per position • Dielectric Withstanding Voltage: AC250 Vr.m.s. per minute • Insulation Resistance: 100MΩ min. • Contact Resistance: 40mΩ max. • Operating Temperature: -40°C ~ 85°C • Applicable Cable: #42~46 AWG

Materials/Finishes:

• *(Receptacle)* Contact: Copper alloy, Gold plating over Nickel on contact area, Gold flash plating over Nickel on terminal area • Shell: Stainless steel, Gold flash plating over Nickel on contact area, Tin plating on Terminal area • Insulator: Heat resistant plastic UL94V-0

• *(Plug)* Contact: Copper alloy, Gold plating over Nickel on contact area, Gold flash plating over Nickel on connection area • Insulator: Heat resistant plastic UL94V-0 • Base Shell: Stainless steel, Gold flash plating over Nickel

• *(Plug Cover Shell)* Cover Shell: Stainless steel, Gold plating over Nickel

Fig. 1 — Receptacle

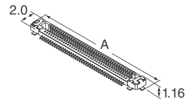

Fig. 2 — Plug

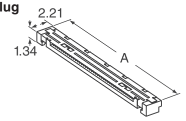

Fig. 3 — Plug ***NEW!***

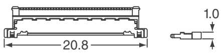

Fig. 4 — Receptacle ***NEW!***

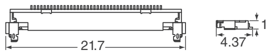

Fig. 5 — Plug ***NEW!***

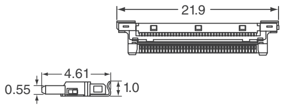

Fig. 6 — Receptacle ***NEW!***

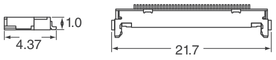

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
				FI-J Series					
				Receptacle					
1	20	14.05	670-1505-ND	3.77	2.47	2.20	—	—	FI-J20S-VF15N
	30	18.05	670-1803-ND ***NEW!***	3.60	2.52	2.31	—	—	FI-J30S-VF15N
	35	20.05	670-1511-ND	3.71	2.43	2.16	—	—	FI-J35S-VF15N
	40	22.05	670-1514-ND	3.80	2.49	2.21	—	—	FI-J40S-VF15N
				Plug					
2	20	13.7	670-1504-ND	2.02	1.24	1.06	—	—	FI-J20C5
	25	15.7	670-1507-ND	2.08	1.28	1.09	—	—	FI-J25C5
	30	17.7	670-2081-ND ***NEW!***	1.65	1.16	1.06	—	—	FI-J30C5
	35	19.7	670-1510-ND	2.18	1.34	1.14	—	—	FI-J35C5
	40	21.7	670-1513-ND	2.24	1.38	1.18	—	—	FI-J40C5
				Shell for Plug					
—	20	—	670-1503-1-ND‡	.23	.15	.12	10,000	91.65/M	FI-J20C2-SH-D-10000
	25	—	670-1506-1-ND‡	.22	.14	.12	10,000	87.55/M	FI-J25C2-SH-D-10000
	30	—	670-2080-1-ND‡ ***NEW!***	.41	.21	.16	10,000	98.17/M	FI-J30C2-SH-D-10000
	35	—	670-1509-1-ND‡	.22	.14	.12	10,000	88.50/M	FI-J35C2-SH-D-10000
	40	—	670-1512-1-ND‡	.23	.15	.13	10,000	93.73/M	FI-J40C2-SH-D-10000
				NEW! FI-JH Series NEW!					
				Plug					
3	40	—	670-2390-ND	6.38	3.95	3.72	—	—	FI-JH40C-B
				Receptacle					
4	40	—	670-1712-ND	6.03	3.52	3.22	—	—	FI-JH40S-HF10
				Shell for Plug					
—	40	—	670-2191-ND	.28	.14	.12	—	—	FI-JH40C-CSH1-10000
				NEW! FI-JT Series NEW!					
				Plug					
5	40	—	670-2457-1-ND‡	8.09	5.18	4.86	3,000	4207.19/M	FI-JT40C-R3000
				Receptacle					
6	40	—	670-2459-1-ND‡	12.29	7.87	7.38	3,000	6388.46/M	FI-JT40S-HF10-R3000
				Shell for Plug					
—	40	—	670-2458-1-ND‡	.58	.30	.24	9,000	163.10/M	FI-JT40C-CSH1-9000

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

FI-X and FI-E Series

1mm Connectors

FI-X Series:

Specifications:

• Contact Spacing: 1mm • Applicable FPC: 0.14mm, Wire 30 ~ 40 AWG • Current Rating: 1A per contact • Voltage Rating: 200AC/DC per contact • Dielectric Withstanding Voltage: 500VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature: -40°C ~ 80°C

Materials and Finishes:

• Contact: Copper Alloy/ Gold plating over Nickel, Terminal area: SnPb plating over Nickel • Insulator: Glass filled 4-6 Nylon (UL94V-0) • Shell: Copper Alloy/Tin plating

FI-E Series:

Features: • Connector optimal for LVDS

Specifications:

• Contact Resistance: 40mΩ maximum • Withstanding Voltage: AC 500 Vr.m.s per minute • Operating Temperature: -40°C ~ 80°C • Rated Current: AC, DC each 1A per 1 position • Rated Voltage: AC, DC each 200V per 1 position • Insulation Resistance: 100MΩ minimum

Fig. 1 — Coaxial Plug

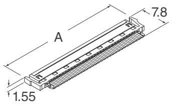

Fig. 2 — Cable Plug

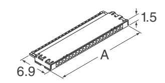

Fig. 3 — Cable Plug ***NEW!***

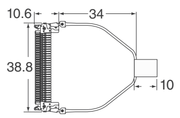

Fig. 4 — FPC Plug

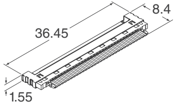

Fig. 5 — FPC Plug ***NEW!***

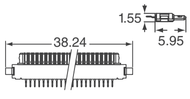

Fig. 6 — Cable Plug

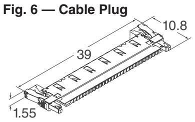

Fig. 7 — SMD Receptacle

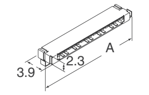

Fig. 8 — SMD Receptacle ***NEW!***

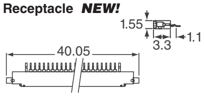

Fig. 9 — SMD Receptacle ***NEW!***

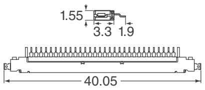

Fig. 10 — Cable Plug

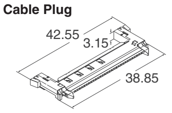

Fig. 11 — SMD Receptacle

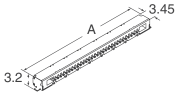

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
				FI-X Series					
				Coaxial Plug					
1	30	38.05	670-1213-ND	7.70	5.24	4.62	—	—	FI-X30C-NPB
				Cable Plug					
2	30	33.3	670-1214-ND	3.61	2.06	1.76	—	—	FI-X30H
3	30	—	670-2201-ND ***NEW!***	3.27	1.98	1.69	—	—	FI-X30HL-T
				FPC Plug					
4	30	—	670-1216-ND	7.70	5.24	4.62	—	—	FI-X30M-NPB
	30	—	670-2202-ND ***NEW!***	15.41	10.96	9.94	—	—	FI-X30MA1
	30	—	670-1217-ND	7.70	5.24	4.62	—	—	FI-X30MR-NPB
5	30	—	670-2086-ND ***NEW!***	2.70	1.89	1.73	—	—	FI-X30FR
				Cable Plug with Locking Levers					
6	30	—	670-1215-ND	2.70	1.54	1.31	—	—	FI-X30HL
	30	—	670-1212-ND	3.08	1.76	1.50	—	—	FI-X30C2EL
				SMD Receptacle					
7	30	40.05	670-1219-1-ND‡	12.24	7.83	7.35	2,500	6364.80/M	FI-X30SSL-HF-R2500
8	30	—	670-2087-ND ***NEW!***	13.10	9.32	8.44	—	—	FI-XB30SRL-HF11
9	30	—	670-2205-ND ***NEW!***	13.16	9.36	8.49	—	—	FI-XPB30SL-HF10
				Crimp Pins					
Gold 30 ~ 36 AWG			670-1222-1-ND‡	.24	.11	.09	15,000	48.57/M	FI-XC3-1-15000
Gold 30 ~ 36 AWG			670-2204-ND ***NEW!***	.17	.08	.06	—	—	FI-XC3A-1-15000
				NEW! Grounding Bars NEW!					
—	30	—	670-2427-1-ND‡	.23	.10	.08	10,000	43.50/M	FI-X30-LGB-NPB-10000
—	30	—	670-2428-1-ND‡	.46	.22	.18	10,000	111.36/M	FI-X30-UGB-NPB-10000
				NEW! Shell for Plug NEW!					
—	30	—	670-2405-1-ND‡	.39	.20	.15	7,000	98.40/M	FI-X30C2EL-SH02-7000
	30	—	670-2199-ND	2.47	1.55	1.24	—	—	FI-X30CH-NPB-7000
	30	—	670-2200-ND	.97	.49	.37	—	—	FI-X30CLH-NPB-C100
				FI-E Series					
				Cable Plug					
10	30	—	670-2077-ND ***NEW!***	6.98	4.75	4.19	—	—	FI-E30H
	30	—	670-1192-ND▲	6.60	4.49	3.96	—	—	FI-E30HL
				SMD Receptacle					
11	30	38.2	670-1193-ND	8.78	5.97	5.27	—	—	FI-E30S
				Tools					
Hand Tool (FI-X/FI-E)			670-1187-ND	991.37	—	—	—	—	CT150-4C-FIX

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape ▲ With Locking Lever

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

NEW! FI Series

1.25mm Connectors

FI Series connectors are designed for board-to-cable applications. They are used in notebook PCs, VCRs, mobile phones and other consumer applications, where reduced space is a requirement. **Specifications:** • Current Rating: AC/DC 1A per contact • Dielectric Withstanding Voltage: AC500 Vr.m.s. per minute • Insulation Resistance: 100MΩ min. • Contact Resistance: 40mΩ max. • Operating Temperature: -40°C ~ 80°C • Applicable Wire Sizes: #28 ~ 32 AWG • Applicable FPC: .625mm (.025") Center, .14mm (.006") Thick **Materials/Finishes:** • *(Header)* Insulator: Single Row - Glass-filled PPS (UL94V-0, Black); Double Row - Glass-filled LCP (UL94V-0, Beige) • Contact: Copper alloy, Gold 0.1µm min. over Nickel on contact area, Tin-Lead over Nickel plating on terminal area • Shell: Copper alloy/ Tin plating • Hold-down: Copper alloy/ Tin over Nickel • *(FPC)* Slider: Glass-filled PPS (UL94V-0, Brown) • *(Socket Housing)* Housing: Glass-filled PPS (UL94V-0, Black) • Socket Contact: Phosphor Bronze/ Gold over Nickel

Fig. 1 — Right Angle Receptacle

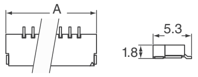

Fig. 2 — Right Angle Receptacle

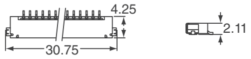

Fig. 3 — Right Angle Receptacle

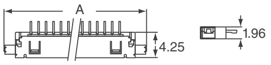

Fig. 4 — Right Angle Receptacle

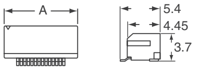

Fig. 5 — Right Angle Receptacle

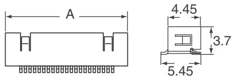

Fig. 6 — Vertical Receptacle

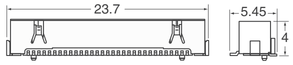

Fig. 7 — Cable Plug

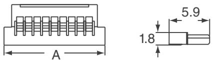

Fig. 8 — Cable Plug

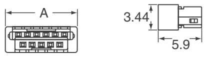

Fig. 9 — FPC Plug

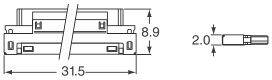

Fig. 10 — FPC Plug

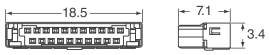

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			Right Angle Receptacle				
1	2	6.1	670-1838-ND	1.89	1.16	.99	FI-S2P-HFE
	3	7.35	670-1841-ND	1.92	1.18	1.01	FI-S3P-HFE
	5	9.85	670-1719-ND	2.67	1.64	1.40	FI-S5P-HFE
	10	16.1	670-1713-ND	3.12	1.92	1.64	FI-S10P-HFE
	15	22.35	670-1835-ND	3.57	2.09	1.91	FI-S15P-HFE
	20	28.6	670-1836-ND	4.20	2.45	2.24	FI-S20P-HFE
	25	34.85	670-1837-ND	4.89	2.86	2.61	FI-S25P-HFE
	30	41.1	670-1839-ND	5.31	3.10	2.84	FI-S30P-HFE
2	20	—	670-1843-ND	5.91	3.45	3.16	FI-SE20P-HFE
3	20	31.9	670-1846-ND	9.92	7.06	6.40	FI-SEB20P-HFE
	20	32.86	670-1844-ND	10.08	7.17	6.50	FI-SEB20P-HF10E
	20	32.26	670-1845-ND	10.08	7.17	6.50	FI-SEB20P-HF13E
4	5	6.10	670-1859-ND	3.66	2.14	1.96	FI-W5P-HFE
	7	7.35	670-1861-ND	3.93	2.30	2.10	FI-W7P-HFE
	9	8.60	670-1863-ND	3.93	2.30	2.10	FI-W9P-HFE
	11	9.85	670-1848-ND	4.41	2.58	2.36	FI-W11P-HFE
	13	11.10	670-1850-ND	4.02	2.35	2.15	FI-W13P-HFE
	15	12.35	670-1852-ND	4.62	2.70	2.47	FI-W15P-HFE
	19	14.85	670-1853-ND	5.13	3.00	2.74	FI-W19P-HFE
	21	16.10	670-1854-ND	5.88	3.43	3.14	FI-W21P-HFE
	31	22.35	670-1722-ND	7.83	4.57	4.18	FI-W31P-HFE
	41	28.60	670-1857-ND	7.78	5.29	4.67	FI-W41P-HFE
5	21	16.55	670-1724-ND	9.92	7.06	6.40	FI-WE21P-HFE
	31	22.8	670-1725-ND	10.35	7.36	6.67	FI-WE31P-HFE
	41	29.1	670-1866-ND	12.11	8.61	7.81	FI-WE41P-HFE
			Vertical Receptacle				
6	31	—	670-1847-ND	13.57	9.65	8.75	FI-TWE31PB-VF
			Cable Plug				
7	2	6	670-1716-ND	1.00	.57	.45	FI-S2S
	3	7.25	670-1717-ND	1.12	.63	.51	FI-S3S
	4	8.5	670-1718-ND	1.12	.63	.51	FI-S4S
	5	9.75	670-2403-ND	1.85	.93	.74	FI-S5S
	6	11	670-2404-ND	1.48	.84	.67	FI-S6S
	8	13.5	670-1720-ND	1.43	.88	.75	FI-S8S
	10	16	670-1834-ND	1.43	.88	.75	FI-S10S

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
7	15	22.25	670-1714-ND	1.43	.88	.75	FI-S15S
	20	28.5	670-1715-ND	1.69	1.04	.89	FI-S20S
	25	34.75	670-2402-ND	1.95	1.18	1.01	FI-S25S
	30	41	670-1840-ND	2.18	1.34	1.14	FI-S30S
8	5	6	670-1860-ND	1.48	.84	.67	FI-W5S
	7	7.25	670-1862-ND	1.48	.84	.67	FI-W7S
	9	8.5	670-1723-ND	1.48	.84	.67	FI-W9S
	11	9.75	670-1849-ND	1.43	.88	.75	FI-W11S
	13	11	670-1851-ND	1.43	.88	.75	FI-W13S
	15	12.25	670-1721-ND	1.43	.88	.75	FI-W15S
	21	16	670-1855-ND	1.92	1.18	1.01	FI-W21S
	31	22.25	670-1856-ND	2.18	1.34	1.14	FI-W31S
	41	28.5	670-1858-ND	2.44	1.50	1.28	FI-W41S
			FPC Plug				
9	20	—	670-1842-ND	7.05	4.80	4.23	FI-SE20ME
	20	—	670-2083-ND	7.05	4.80	4.23	FI-SE20MRE
10	21	—	670-1864-ND	33.72	25.29	24.45	FI-WE21MA1
—	Crimp Contact, Gold 28 ~ 32 AWG		670-2371-1-ND†	.21	.10	.08	FI-C3-A1-15000
			670-2371-2-ND‡		589.50/15,000		FI-C3-A1-15000

† Cut Tape ‡ Tape and Reel

NEW! AA01A Series

0.50mm Connectors

Features: • Low profile 1.5mm mating height • Large hold down for secure mounting • Locking mechanism in each contact • Each contact has two contact mating areas, for secure mating **Specifications:** • Current Rating: 0.2A per contact • Withstanding Voltage: AC250 Vr.m.s. per minute • Insulation Resistance: 100MΩ min. • Contact Resistance: 70mΩ max. • Operating Temperature: -40°C ~ 85°C **Materials and Finishes:** • Insulator: Heat Resistant Plastic (UL94V-0, Black) • Contact: Copper Alloy with Gold plating, Contact Area: 0.1µm min. • Hold down: Copper Alloy with Tin Plating

Fig. 1 — Plug

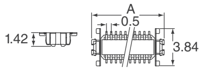

Fig. 2 — Receptacle

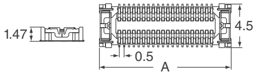

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	30	10.1	670-2166-ND	3.86	2.38	2.06	AA01A-P030VA1-R100
2	30	11.1	670-2167-ND	3.16	1.95	1.69	AA01A-S030VA1-R100

AA03 Series

0.4mm Connectors

Features: • Drop impact and vibration-resistant connectors • Stacking height 1.0mm, low profile connector. **Specifications:** • Rated Current: AC, DC 0.4 Amps per position • Rated Voltage: AC, DC 50V • Dielectric Withstanding Voltage: AC250Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum • Operating Temperature Range: -45°C ~ 85°C. **Materials and Finishes:** • Contact: Copper Alloy/Gold plating • Insulator: Heat resistant plastic/(UL94V-0, Black) • Hold-down: Plug: Copper Alloy/Gold plating (0.1um minimum); Receptacle: Copper Alloy/Tin plating

Fig. 1 — Plug

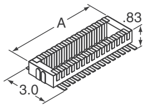

Fig. 2 — Receptacle

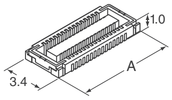

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
1	20	5.3	670-1169-1-ND	1.05	.64	.57	6,000	455.77/M	AA03-P020VA2-R6000
	22	5.7	670-1170-1-ND	3.32	1.99	1.77	6,000	1436.84/M	AA03-P022VA2-R6000
	24	6.1	670-1171-1-ND	3.78	2.27	2.02	—	—	AA03-P024VA2-R6000
	30	7.3	670-1172-1-ND	2.49	1.50	1.33	6,000	1078.07/M	AA03-P030VA2-R6000
	40	9.3	670-1173-1-ND ***NEW!***	3.13	1.83	1.67	6,000	1358.17/M	AA03-P040VA2-R6000
	50	11.3	670-1174-1-ND	4.93	2.88	2.64	6,000	2138.10/M	AA03-P050VA2-R6000
	80	17.3	670-1175-1-ND	5.45	3.18	2.91	6,000	2359.78/M	AA03-P080VA2-R6000
2	20	6.3	670-1176-1-ND	1.05	.64	.57	6,000	455.77/M	AA03-S020VA1-R6000
	22	6.7	670-1177-1-ND	3.80	2.29	2.03	6,000	1648.39/M	AA03-S022VA1-R6000
	24	7.1	670-1178-1-ND	3.85	2.31	2.06	—	—	AA03-S024VA1-R6000
	30	8.3	670-1179-1-ND	2.49	1.46	1.33	6,000	1078.07/M	AA03-S030VA1-R6000
	40	10.3	670-1180-1-ND	3.17	1.85	1.69	6,000	1372.23/M	AA03-S040VA1-R6000
	50	12.3	670-1181-1-ND	4.94	2.88	2.64	6,000	2138.52/M	AA03-S050VA1-R6000
	80	18.3	670-1182-1-ND	6.19	3.51	3.30	6,000	2680.49/M	AA03-S080VA1-R6000

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WA6 Series
0.4mm Connectors

Features: • Compatible to JEDEC Standard, MO-260B and SO-004A • Enabling the industry's largest 214 contacts preventing connector distortion even though the compact pitch is a high density • Contacts for solder reinforcement are provided in each corner of the connector **Specifications:** • Operating Temperature Range: -55°C ~ 85°C • Rated Current: AC, DC both 0.3A per pin • Contact Resistance: 70mΩ maximum • Dielectric Withstanding Voltage: AC500 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum **Materials and Finishes:** • Contact: Copper alloy/Contact area: Gold, Terminal area: Gold flash • Insulator: Heat Resistant plastic

Fig. 1 — Receptacle

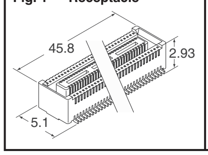

Fig. 2 — Plug

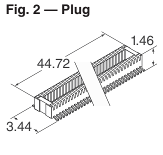

Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel Pricing† 500	JAE Part No.
1	214	670-1161-1-ND	13.03	9.27	8.40	3850.00	WA6214VA1TR500
2	214	670-1162-1-ND	13.03	9.27	8.40	3850.00	WA6M214VA1TR500

† For Tape and Reel part number, change 1-ND to 2-ND.

WB3 and WB4 Series 0.5mm Connectors

WB3 Series: WB3 Series are board to board connectors satisfying the specification of the transmission characteristics specification of the PCI Express standard. Suitable for connections between units that need TMDS transmission, such as graphic card and PCI Express. **Specifications:** • Contact Resistance: 50mΩ max. • Dielectric Withstanding Voltage: 250VAC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A/per pin • Mating Cycle: 25 cycle **Materials and Finishes:** • *(Receptacle)* Contact: Copper Alloy/ Contact: 0.76um min. Gold plating over Nickel; Terminal: Gold flash plating over Nickel • Insulator: Thermoplastic resin UL94V-0 black • Shell: Copper Alloy: Tin Plating • *(Plug)* Contact: Copper Alloy/ Contact: 0.76um min. Gold plating over Nickel; Terminal: Gold flash plating over Nickel • Insulator: Thermoplastic resin UL94V-0, black • Shell: Stainless steel/ Tin plating

WB4 Series: WB4 Series are board to board horizontal connectors satisfying the specification of the transmission characteristics of PCI Express standard. **Specifications:** • Contact Resistance: 100mΩ max. • Dielectric Withstanding Voltage: 200VAC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.4A/per pin • Insulation Resistance: 100MΩ min. • Impedance: Connector area 100Ω ±15% **Materials/Finishes:** • *(Receptacle and Plug)* Contact 1 and 2: Copper alloy/ Contact area Gold, SMT Terminal Gold plating • Insulator: Heat resistant plastic/ None • Locator: Heat resistant plastic/ None • Cover: Heat resistant plastic/ None • Shell: Stainless/ Tin plating

Fig. 1 — Receptacle

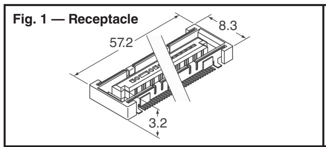

Fig. 2 — Plug ***NEW!***

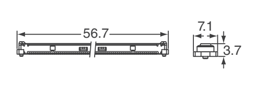

Fig. 3 — Plug ***NEW!***

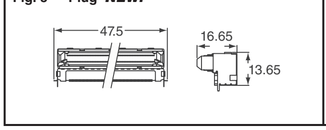

Fig. 4 — Receptacle ***NEW!***

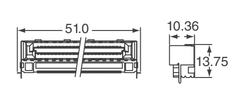

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	200	670-1164-ND†	7.38	5.02	4.43	WB3F200VD1T
	200	670-2350-ND ***NEW!***	13.79	9.81	8.89	WB3F200VD1
2	200	670-2351-ND ***NEW!***	15.77	11.22	10.17	WB3M200VD2
3	140	670-2352-ND ***NEW!***	17.51	12.45	11.29	WB4P140HA1
4	140	670-2353-ND ***NEW!***	18.54	13.19	11.95	WB4S140HA1

† With Absorption Tape

NEW! WD Series
0.5mm Connectors

High density connector for external interface used in docking stations and port replicators for notebook PCs, sub-notebook PCs, mini-note PCs, PDAs and more. **Features:** • Two step live insertion/removal useful for protection circuits or devices • Four pins for power (rated current 3A) • Mating guide structure absorbing up to ±1.5mm dislocation • EMI Shield **Specifications:** • Contact Resistance: Less than 90mΩ • Withstanding Voltage: AC500Vr.m.s. • Operating Temperature: -40°C ~ 85°C • Rated Voltage: AC200 Vr.m.s • Rated Current: For signal pins, 0.3A, for power pins 3A • Insulation Resistance: Greater than 100MΩ **Materials/ Finishes:** • Contacts: Copper/ Alloy, More than 0.1μm Gold plating over Nickel • Nut: Brass, Nickel plating • Shell: Brass, Nickel plating • Socket Insulator: Glass filled LCP

Fig. 1 — Plug

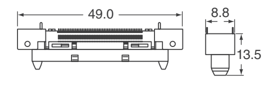

Fig. 2 — Receptacle

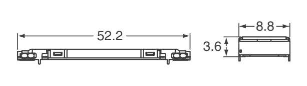

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	100	670-2039-ND	22.33	15.88	14.40	WD-100P4V-VF120-N-PE-T45
	100	670-2354-1-ND†	14.26	10.15	9.20	WD-T100P4V-VF120-N-EB-R250
	100	670-2354-2-ND‡		2218.89/250		WD-T100P4V-VF120-N-EB-R250
2	100	670-2040-ND	19.90	14.15	12.83	WD-100S4V-VF-N-PE-T45

† Cut Tape ‡ Tape and Reel

NEW! WD2 Series
Docking Connectors

The WD2 Series are docking connectors compatible with high speed differential transmission such as PCI Express **Features:** • Ground bar on receptacle side for ESD countermeasure **Specifications:** • Contact Resistance: 190mΩ max. • Dielectric Withstanding Voltage: AC500Vr.m.s. per minute • Rated Current: 0.5 per terminal (signal), 10A per pair (power) • Insulation Resistance: 100MΩ min. • Operating Temperature: -40°C ~ 85°C **Materials/Finishes:** • Contact: Copper Alloy/ Contact area: 0.3μm min. Gold plating over Nickel • Insulator: Glass filled LCP • Shell: Copper Alloy/ Nickel plating

Fig. 1

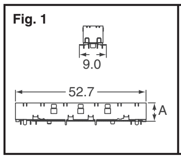

Fig. 2

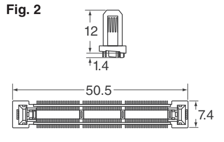

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
1	144	11.6	670-2454-1-ND	9.50	6.47	5.71	300	1596.42	WD2F144WB1R300
	144	7.7	670-2426-1-ND	13.80	9.81	8.90	400	3433.47	WD2F144WB4R400
2	144	—	670-2383-1-ND	10.62	7.56	7.08	300	1981.98	WD2M144WB1R300

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! WH1 Series
0.40mm Connectors

Features: • Contacts have high abrasion resistance • Roll contacts assure contact reliability • Simple locking structure provides "click" response **Specification:** • Contact Resistance: 70mΩ max. (initial) • Dielectric Withstanding Voltage: 250VAC r.m.s. (for one minute) • Insulation Resistance: 100MΩ min. (initial) • Rated Current: AC, DC 0.4A (per position) • Operating Temperature: -40°C ~ 85°C • Lifetime: 50 times • Rated Voltage: AC, DC 50V **Materials/Finishes:** • Insulator: Heat Resistant Plastic (UL94V-0, Black) • Contact: Copper Alloy/ Gold Plating (0.1μm min.)

Fig. 1 — Plug

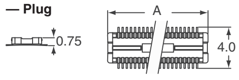

Fig. 2 — Receptacle

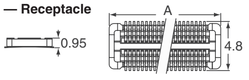

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	24	6.54	670-2356-ND	1.95	1.18	1.01	WH1P024WA1
	30	7.74	670-2357-ND	3.07	1.86	1.59	WH1P030WA1
	40	9.74	670-2358-ND	3.72	2.30	1.99	WHIP040WA1
2	24	7.6	670-2359-ND	1.95	1.18	1.01	WH1S024WA1
	30	8.8	670-2360-ND	3.07	1.86	1.59	WH1S030WA1
	40	10.8	670-2361-ND	3.90	2.41	2.08	WH1S040WA1

NEW! WM1 Series
1.0mm Connectors

Features:

- 68 position bay connector supporting USB2.0 in addition to IDE signals • Metal shell used for EMI prevention • Supports hot plug by using a 2-level hot plug structure

Specification:

- Contact Resistance: 60mΩ max. • Dielectric Withstanding Voltage: AC250Vr.m.s. per minute • Contact Pitch: 1.0mm • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A per pin • Insulation Resistance: 100MΩ min. • Lifeline: 5,000 times • Rated Voltage: AC125Vr.m.s.

Materials/Finishes:

- Base Insulator: Heat resistant plastic glass filled LCP • Connector: Copper alloy/ Contact: Gold plating; Terminal: Tin plating • Shell: Stainless steel/ Nickel plating

Fig. 1 — Receptacle

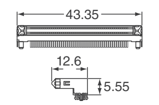

Fig. 2 — Receptacle

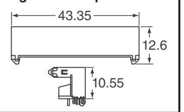

Fig. 3 — Receptacle

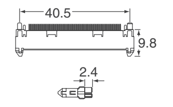

Fig. 4 — Plug

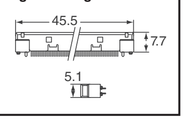

Fig.	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	670-2422-ND	4.11	2.47	2.20	WM1F068NSA
2	670-2042-ND	6.18	4.33	3.96	WM1F068NSE
3	670-2423-ND	7.30	4.97	4.38	WM1F068USA
4	670-1820-ND	4.50	3.15	2.88	WM1M068USA

WM2 Series 0.5mm Connectors

Features: • Compatible to SATA and USB 2.0 transmission • With shell compatible to EMI. The shells (ground portion) will connect first when mating. **Specifications:** • Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: AC250 per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A/per pin **Materials and Finishes:** Receptacle/Plug: • Contact: Copper Alloy • Insulator: Glass filled LCP • Stainless Steel Shell

Fig. 1 — Receptacle

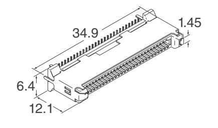

Fig. 2 —Plug

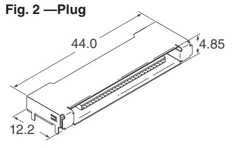

Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each 1	25	100	JAE Part No.
1	54	670-1167-1-ND	5.69	3.23	3.04	WM2F054WPAR300
2	54	670-1168-1-ND	7.09	4.82	4.26	WM2M054JPAR600

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Technology to Inspire Innovation
JAE

NEW! WR Series

0.5mm Connectors

Digi-Reel® RoHS COMPLIANT

The WR Series are SMT-type connectors for PCB-to-PCB applications. These subminiature, low profile connectors keep the required spcae and height on the PCB to a minimum. **Specifications:** • Contact Rating: 0.3A per contact • Dielectric Withstanding Voltage: 500VAC r.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 50mΩ max. • Operating Temperature: -40°C ~ 85°C **Materials/Finishes:** • Insulator: Socket side: Glass-filled LCP (UL94V-0, Black); Pin Side: Glass-filled PPS (UL94V-0, Black) • Contact: Copper Alloy, Connecting area: Gold plating 0.1µm (.000004") min. over Nickel; Terminal area: Tin plating over Nickel or Gold flashover Nickel • Hold-down: Copper Alloy/Tin Plating

Fig. 1

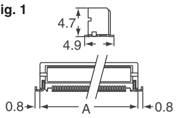

Fig. 2

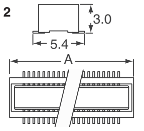

Fig. 3

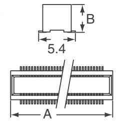

Fig. 4

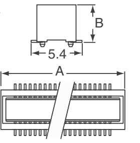

Fig. 5

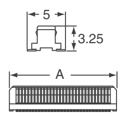

Fig. 6

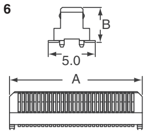

Fig. 7

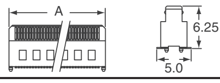

Fig. 8

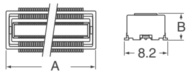

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Price Each			Tape and Reel†		JAE Part No.
		A	B		1	25	100	Qty.	Pricing	
				SMD Right Angle Plug						
1	40	13.9	—	670-1973-ND	6.54	3.82	3.49	—	—	WR-40PB-HF-HD-A1E
	50	16.4	—	670-1979-ND	6.63	4.51	3.98	—	—	WR-50P-HF-HD-A1E
	60	18.9	—	670-1777-ND	7.78	5.29	4.67	—	—	WR-60P-HF-HD-A1E
	80	23.9	—	670-1780-ND	9.80	6.67	5.88	—	—	WR-80P-HF-HD-A1E
	80	23.9	—	670-1780-1-ND‡	8.92	6.07	5.36	1,200	4638.40/M	WR-80P-HF-HD-A1E-R1200
	120	33.9	—	670-1768-ND	19.31	13.73	12.45	—	—	WR-120P-HF-HD-A1E
				SMD Plug						
2	20	7.5	—	670-2362-1-ND‡	4.27	2.64	2.28	1,500	1993.60/M	WR-20P-VF-N1-R1500
	30	10.0	—	670-1775-ND	3.33	1.95	1.78	—	—	WR-30P-VF-N1
	50	15.0	—	670-1980-ND	6.45	3.77	3.44	—	—	WR-50P-VF-N1
	80	22.5	—	670-1996-ND	8.70	5.92	5.22	—	—	WR-80P-VF-N1
	100	27.5	—	670-1957-ND	8.63	5.87	5.18	—	—	WR-100P-VF-N1
	120	32.5	—	670-1769-ND	11.43	8.13	7.37	—	—	WR-120P-VF-N1
	160	42.5	—	670-1772-ND	11.14	7.92	7.18	—	—	WR-160P-VF-N1
3	60	17.5	4.0	670-1778-ND	6.24	3.64	3.33	—	—	WR-60P-VF50-N1
	80	22.5	4.0	670-1997-ND	9.85	6.70	5.91	—	—	WR-80P-VF50-N1
	120	32.5	4.0	670-1960-ND	9.55	6.50	5.73	—	—	WR-120P-VF50-N1
	30	10.0	5.0	670-1969-ND	3.33	1.95	1.78	—	—	WR-30P-VF60-N1
	40	12.5	5.0	670-1972-ND	4.32	2.52	2.31	—	—	WR-40P-VF60-N1
	60	17.5	5.0	670-1986-ND	6.24	3.64	3.33	—	—	WR-60P-VF60-N1
	70	20.0	5.0	670-1990-ND	7.05	4.12	3.76	—	—	WR-70P-VF60-N1
	100	27.5	5.0	670-1766-ND	8.63	5.87	5.18	—	—	WR-100P-VF60-N1
	120	32.5	5.0	670-1770-ND	9.55	6.50	5.73	—	—	WR-120P-VF60-N1
	160	42.5	5.0	670-2366-1-ND‡	15.59	11.09	10.05	1,200	9006.40/M	WR-160P-VF60-N1-R1200
				SMD Plug with Post						
4	40	12.5	3.0	670-1974-ND	4.32	2.52	2.31	—	—	WR-40PB-VF-N1
	50	15.0	3.0	670-1981-ND	5.28	3.08	2.82	—	—	WR-50PB-VF-N1
	70	20.0	3.0	670-1991-ND	7.05	4.12	3.76	—	—	WR-70PB-VF-N1
	120	32.5	3.0	670-1961-ND	13.77	9.80	8.88	—	—	WR-120PB-VF-N1
	160	42.5	3.0	670-1965-ND	11.14	7.92	7.18	—	—	WR-160PB-VF-N1
	160	42.5	4.0	670-1966-ND	9.23	6.28	5.54	—	—	WR-160PB-VF50-A3
	30	10.0	4.0	670-2363-1-ND‡	2.57	1.56	1.33	1,300	1129.43/M	WR-30PB-VF50-N1-R1300
	70	20.0	4.0	670-1992-ND	7.05	4.12	3.76	—	—	WR-70PB-VF50-N1
	120	32.5	4.0	670-2037-ND	12.89	9.17	8.31	—	—	WR-120PB-VF50-N1
	160	42.5	4.0	670-1967-ND	11.14	7.92	7.18	——	—	WR-160PB-VF50-N1
	50	15.0	5.0	670-1982-ND	5.28	3.08	2.82	—	—	WR-50PB-VF60-N1
	60	17.5	5.0	670-1987-ND	6.24	3.64	3.33	—	—	WR-60PB-VF60-N1
	80	22.5	5.0	670-1781-ND	7.86	4.59	4.20	—	—	WR-80PB-VF60-N1
				SMD Receptacle						
5	20	6.5	—	670-1774-ND	4.71	2.75	2.52	—	—	WR-20S-VF-N1
	30	9.0	—	670-1970-ND	3.33	1.95	1.78	—	—	WR-30S-VF-N1
	40	11.5	—	670-1975-ND	4.32	2.52	2.31	—	—	WR-40S-VF-N1
	50	14.0	—	670-1983-ND	7.05	4.12	3.76	—	—	WR-50S-VF-N1
	70	19.0	—	670-1993-ND	7.05	4.12	3.76	—	—	WR-70S-VF-N1
	100	26.5	—	670-1958-ND	11.63	8.28	7.50	—	—	WR-100S-VF-N1
	120	31.5	—	670-1962-ND	7.00	4.76	4.20	—	—	WR-120S-VF-N1
	160	41.5	—	670-1773-ND	11.14	7.92	7.18	—	—	WR-160S-VF-N1
				SMD Receptacle with Post						
6	30	9.0	3.75	670-1971-ND	3.33	1.95	1.78	—	—	WR-30S-VFH05-N1
	60	16.5	3.75	670-1779-ND	6.24	3.64	3.33	—	—	WR-60S-VFH05-N1
	70	19.0	3.75	670-1994-ND	7.05	4.12	3.76	—	—	WR-70S-VFH05-N1
	80	21.5	3.75	670-1998-ND	7.86	4.59	4.20	—	—	WR-80S-VFH05-N1
	120	31.5	3.75	670-1771-ND	9.55	6.50	5.73	—	—	WR-120S-VFH05-N1
	30	9.0	3.25	670-1776-ND	3.28	2.02	1.72	—	—	WR-30SB-VF-N1
	80	21.5	3.25	670-1782-ND	7.86	4.59	4.20	—	—	WR-80SB-VF-N1
	100	26.5	3.25	670-1767-ND	10.60	7.54	6.83	—	—	WR-100SB-VF-N1
	120	31.5	3.25	670-1964-ND	9.55	6.50	5.73	—	—	WR-120SB-VF-N1
	160	41.5	3.25	670-1968-ND	11.14	7.92	7.18	—	—	WR-160SB-VF-N1
	30	9.0	3.75	670-2364-1-ND‡	2.57	1.56	1.32	1,500	1129.42/M	WR-30SB-VFH05-N1-R1500
	40	11.5	3.75	670-1977-ND	4.32	2.52	2.31	—	—	WR-40SB-VFH05-N1
	50	14.0	3.75	670-1984-ND	5.28	3.08	2.82	—	—	WR-50SB-VFH05-N1
	60	16.5	3.75	670-1989-ND	6.24	3.64	3.33	—	—	WR-60SB-VFH05-N1
	160	41.5	3.75	670-2365-1-ND‡	15.75	11.20	10.15	1,500	9100.00/M	WR-160SB-VFH05-N1-R1500
7	40	11.5	—	670-1976-ND	5.25	3.07	2.80	—	—	WR-40S-VFH30-N1
	60	16.5	—	670-1988-ND	7.44	4.34	3.97	—	—	WR-60S-VFH30-N1
	70	19.0	—	670-1995-ND	10.55	7.18	6.33	—	—	WR-70S-VFH30-N1
7	100	26.5	—	670-1959-ND	14.36	10.21	9.26	—	—	WR-100S-VFH30-N1
	120	31.5	—	670-1963-ND	10.31	7.33	6.65	—	—	WR-120S-VFH30-N1
	40	11.5	—	670-1978-ND	5.25	3.07	2.80	—	—	WR-40SB-VFH30-N1
	50	14.0	—	670-1985-ND	6.39	3.73	3.41	—	—	WR-50SB-VFH30-N1
	60	16.5	—	670-2367-1-ND‡	5.21	3.22	2.78	1,000	2430.19	WR-60SB-VFH30-N1-R1000
				SMT Plug						
8	30	12.1	5.0	670-2045-ND	5.00	3.50	3.20	—	—	WR-F30P-VF60-N1
	40	14.6	5.0	670-2047-ND	8.05	5.48	4.83	—	—	WR-F40P-VF60-N1
	60	19.6	4.0	670-2048-ND	8.53	5.80	5.12	—	—	WR-F60PB-VF50-N1
	40	14.6	5.0	670-2044-ND	5.80	3.95	3.48	—	—	WR-F40PB-VF60-N1
	60	19.6	4.0	670-2050-ND	8.53	5.80	5.12	—	—	WR-FL60P-VF50-N1
	70	22.1	4.0	670-2051-ND	9.70	6.60	5.82	—	—	WR-FL70P-VF50-N1
	30	12.1	5.0	670-2049-ND	4.63	3.24	2.96	—	—	WR-FL30P-VF60-N1
	70	22.1	5.0	670-2148-ND	9.68	6.58	5.81	—	—	WR-FL70P-VF60-N1

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

KX14 and KX15 Series

0.8mm Connectors

RoHS COMPLIANT

Specifications: • Contact Spacing: 0.8mm • Current Rating: 0.5 Amps • Dielectric Withstanding Voltage: 500 VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum • Operating Temperature: -40°C ~ 85°C **Materials and Finishes:** • Insulator: KX14: Glass-filled LCP/Black, KX15 Straight: Glass-filled PPS/Black, KX15 Right Angle: Glass-filled LCP/Black • Contact: Copper Alloy, Connecting Area: 0.1µm min. Gold Plating over Nickel, Terminal Area: Gold flash over Nickel or Tin-lead over Nickel • Hold Down: Copper Alloy/Tin-lead over Nickel • Hook Pin: Copper Alloy/Tin Plating • Hexagon Nut: Brass/Nickel Plating

Fig. 1

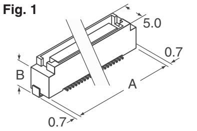

Receptacle

Fig. 2

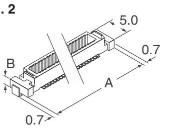

Plug

Fig. 3

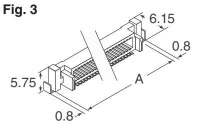

Plug — Right Angle

Fig.	No. of Positions	Dimensions (mm)		Digi-Key Part No.	Price Each			JAE Part No.
		A	B		1	25	100	
				KX14 Series				
1	20	16	1.95	670-1243-ND	3.01	1.72	1.47	KX14-20K2DE
	20	16	4.95	670-1244-ND	3.15	1.80	1.53	KX14-20K5DE
	20	16	7.95	670-1245-ND	3.15	1.80	1.53	KX14-20K8DE
	20	16	10.95	670-1241-ND	3.01	1.72	1.47	KX14-20K11DE
	30	20	1.95	670-1247-ND	3.64	2.08	1.77	KX14-30K2DE
	30	20	4.95	670-1248-ND	3.71	2.12	1.81	KX14-30K5DE
	40	24	1.95	670-1251-ND	3.90	2.34	2.08	KX14-40K2D-RE
	40	24	4.95	670-1253-ND	3.99	2.33	2.13	KX14-40K5D-RE
	40	24	7.95	670-1254-ND	4.38	2.56	2.34	KX14-40K8DE
	50	28	1.95	670-1257-ND	4.71	2.75	2.52	KX14-50K2D-RE
	50	28	4.95	670-1259-ND	7.68	5.22	4.61	KX14-50K5D-RE
	50	28	7.95	670-1261-ND	5.25	3.07	2.80	KX14-50K8DE
	50	28	10.95	670-1256-ND	4.80	2.80	2.56	KX14-50K11DE
	60	32	1.95	670-1269-ND	6.00	3.50	3.20	KX14-60K2FR
	60	32	4.95	670-1270-ND	5.82	3.40	3.11	KX14-60K5DE
	60	32	10.95	670-1267-ND	5.55	3.24	2.96	KX14-60K11DE
	60	32	13.95	670-1268-ND	6.15	3.59	3.28	KX14-60K14DE
	70	36	4.95	670-1274-ND	6.33	3.70	3.38	KX14-70K5DE
	70	36	7.95	670-1275-ND	6.33	3.70	3.38	KX14-70K8DE
	80	40	1.95	670-1283-ND	7.26	4.12	3.88	KX14-80N2DE
	80	40	4.95	670-1280-ND	7.83	4.44	4.18	KX14-80K5DE
	80	40	7.95	670-1281-ND	7.83	4.44	4.18	KX14-80K8DE
	100	48	1.95	670-1228-ND	6.80	4.63	4.08	KX14-100K2DE
	100	48	10.95	670-1226-ND	7.15	4.87	4.29	KX14-100K11DE
	120	56	4.95	670-1235-ND	8.08	5.50	4.85	KX14-120K5DE
	140	64	1.95	670-1237-ND	9.78	6.65	5.87	KX14-140K2DE
	140	64	4.95	670-1238-ND	9.80	6.67	5.88	KX14-140K5DE
	160	72	4.95	670-1239-ND	10.68	6.84	6.41	KX14-160K5DE
	160	72	4.95	670-1240-ND	10.15	6.50	6.09	KX14-160N5DE
				KX15 Series				
2	20	16	1.95	670-1302-ND	3.01	1.72	1.47	KX15-20K2DE
	20	16	2.95	670-1303-ND	2.77	1.58	1.35	KX15-20K3DE
	20	16	3.95	670-1305-ND	3.15	1.80	1.53	KX15-20K4DE
	30	20	1.95	670-1308-ND	3.64	2.08	1.77	KX15-30K2DE
	40	24	1.95	670-1313-ND	3.90	2.34	2.08	KX15-40K2D-RE
	40	24	2.95	670-1315-ND	4.41	2.58	2.36	KX15-40K3DE
	40	24	7.95	670-1318-ND	7.98	4.53	4.26	KX15-40K8DE
	50	28	1.95	670-1323-ND	5.16	3.01	2.76	KX15-50K2DE
	50	28	2.95	670-1325-ND	5.25	3.07	2.80	KX15-50K3DE
	50	28	3.95	670-1326-ND	7.83	4.44	4.18	KX15-50K4DE
	60	32	1.95	670-1332-ND	6.00	3.50	3.20	KX15-60K2DE
	60	32	2.95	670-1333-ND	6.12	3.57	3.27	KX15-60K3DE
	70	36	2.95	670-1337-ND	6.96	3.95	3.72	KX15-70K3DE
	70	36	3.95	670-1338-ND	6.96	3.95	3.72	KX15-70K4DE
	80	40	1.95	670-1352-ND	6.99	3.97	3.73	KX15-80N2DE
	80	40	2.95	670-1346-ND	7.86	4.46	4.20	KX15-80K3DE
	80	40	3.95	670-1348-ND	7.86	4.46	4.20	KX15-80K4DE
	100	48	1.95	670-1284-ND	7.88	5.36	4.73	KX15-100K2DE
	100	48	3.95	670-1286-ND	7.55	5.14	4.53	KX15-100K4DE
	100	48	3.95	670-1287-ND	7.18	4.88	4.31	KX15-100N4DE
	120	56	1.95	670-1290-ND	7.63	5.19	4.58	KX15-120K2DE
	120	56	3.95	670-1293-ND	7.68	5.22	4.61	KX15-120K4DE
	140	64	3.95	670-1296-ND	8.00	5.44	4.80	KX15-140K4DE
	160	72	2.95	670-1299-ND	10.00	6.80	6.00	KX15-160K3DE
3	20	16	—	670-1306-ND	6.66	3.89	3.56	KX15-20KLDLE
	40	24	—	670-1319-ND	4.32	2.52	2.31	KX15-40KLDLE
	50	36.5	—	670-1330-ND◊	5.19	3.03	2.77	KX15-50KLNL
	60	32	—	670-1335-ND	6.09	3.56	3.25	KX15-60KLDLE
	70	36	—	670-1339-ND	6.96	3.95	3.72	KX15-70KLDLE
	70	44.5	—	670-1340-ND◊	6.96	3.95	3.72	KX15-70KLNL
	80	48.5	—	670-1354-ND◊	7.83	4.44	4.18	KX15-80NLNL
	160	80.5	—	670-1301-ND◊	12.48	7.99	7.49	KX15-160NLNL

◊ Without hold down

PM1 Series

0.8mm Connectors

Specifications: • Contact Resistance: 70mΩ maximum • Dielectric Withstanding Voltage: AC 250Vr.m.s per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A per contact • Insulation Resistance: 100MΩ minimum • Rated Voltage: AC125Vr.m.s **Materials and Finishes:** • Base Insulator: LCP filled with heat-resistant plastic glass, UL 94V-0, Black; • Contact: Copper Alloy/Contact area: Gold plating; Terminal area: Tin plating over Nickel • Reinforcement: Copper Alloy, Tin type plating

Dim. in mm

Fig. 1

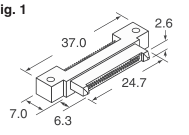

PCB Receptacle

Fig. 2

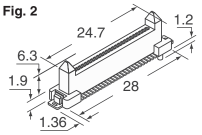

SMD Receptacle

Fig. 3

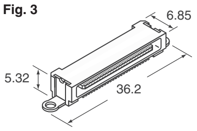

SMD Plug

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	50	670-1090-ND	3.84	2.24	2.05	PM1F050N1AE
2	50	670-1092-ND	6.80	4.63	4.08	PM1F050V1AE
3	50	670-1094-ND	4.08	2.38	2.18	PM1M050H1AE

NEW! PM2 Series

SATA Compatible Connectors

Specifications: • Contact Resistance: 30mΩ max. (initial) • Dielectric Withstanding Voltage: 500VAC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 1.5A per contact • Insulation Resistance: 1000MΩ min. (after test) **Materials and Finishes:** • Insulator: Glass filled LCP • Contact: Copper alloy • Hold-down: Copper alloy/ Tin plating over Nickel

Dim. in mm

Fig. 1 — Receptacle

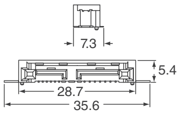

Fig. 2 — Right Angle Plug

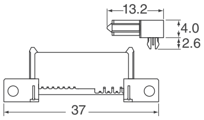

Fig. 3 — Vertical Plug

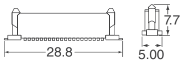

Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
1	13	670-2451-1-ND	1.48	.85	.76	1,000	632.21	PM2B013HQ1R1000
2	13	670-2452-1-ND	1.66	1.01	.86	500	376.50	PM2R013NQ1R500
3	13	670-2453-1-ND	1.65	.95	.81	800	566.40	PM2R013VQ2R800

† For Tape and Reel part number, change 1-ND to 2-ND.

TX24 and TX25 Series

1.27mm Connectors

Specifications: • Rated Current: 1A • Dielectric Withstanding Voltage: 500VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature: -40°C ~ 80°C • Applicable PCB Thickness: 1.6 mm **Materials and Finishes:** • Insulator: Glass-filled PBT (UL 94V-0, Black) • Hook Pin: Copper Alloy/Tin Plating • Contact: Copper Alloy; Connection area: Gold plating, 0.1 µm minimum over Nickel • Terminal area: Tin plating

Fig. 1

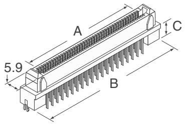

Fig. 2

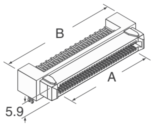

Fig. 3

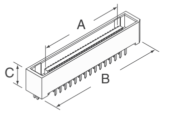

Fig. 4

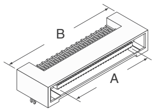

No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
TX24 Series								
Fig. 1 — Receptacle, Straight – Thru Hole								
30	17.78	31.7	2.8	670-1375-ND◊	1.68	.95	.74	TX24-30R-6ST-H1E
	17.78	31.7	2.8	670-1376-ND	1.64	.93	.72	TX24-30R-6ST-N1E
	17.78	31.7	6.8	670-1372-ND	1.64	.93	.72	TX24-30R-10ST-N1E
	17.78	31.7	8.8	670-1373-ND◊	1.72	.97	.76	TX24-30R-12ST-H1E
	17.78	31.7	8.8	670-1374-ND	1.64	.93	.72	TX24-30R-12ST-N1E
40	24.13	38.0	2.8	670-1385-ND	1.86	1.06	.93	TX24-40R-6ST-N1E
	24.13	38.0	6.8	670-1380-ND◊	1.96	1.12	.96	TX24-40R-10ST-H1E
	24.13	38.0	8.8	670-2035-ND◊ ***NEW!***	2.46	1.64	1.40	TX24-40R-12ST-E1E
	24.13	38.0	8.8	670-1382-ND◊	1.96	1.12	.96	TX24-40R-12ST-H1E
50	30.48	44.4	2.8	670-1392-ND◊	2.38	1.36	1.16	TX24-50R-6ST-H1E
	30.48	44.4	2.8	670-1393-ND	2.28	1.30	1.11	TX24-50R-6ST-N1E
60	36.83	50.7	2.8	670-1401-ND	2.59	1.48	1.26	TX24-60R-6ST-E1E
	36.83	50.7	6.8	670-1396-ND◊	2.59	1.48	1.26	TX24-60R-10ST-H1E
	36.83	50.7	6.8	670-1397-ND	2.52	1.44	1.23	TX24-60R-10ST-N1E
80	49.53	63.4	2.8	670-1413-ND	3.26	1.86	1.59	TX24-80R-6ST-E1E
	49.53	63.4	6.8	670-1407-ND	3.01	1.72	1.47	TX24-80R-10ST-E1E
	49.53	63.4	6.8	670-1409-ND	3.12	1.78	1.52	TX24-80R-10ST-N1E
	49.53	63.4	8.8	670-1411-ND◊	3.26	1.86	1.59	TX24-80R-12ST-H1E
100	62.23	76.1	2.8	670-1363-ND◊	3.15	1.89	1.68	TX24-100R-6ST-H1E
	62.23	76.1	2.8	670-1364-ND	3.57	2.04	1.74	TX24-100R-6ST-N1E
	62.23	76.1	6.8	670-1356-ND	3.15	1.89	1.68	TX24-100R-10ST-E1E
	62.23	76.1	6.8	670-1357-ND◊	3.15	1.89	1.68	TX24-100R-10ST-H1E
	62.23	76.1	6.8	670-1358-ND	3.57	2.04	1.74	TX24-100R-10ST-N1E
	62.23	76.1	8.8	670-1360-ND◊	3.15	1.89	1.68	TX24-100R-12ST-H1E
	62.23	76.1	8.8	670-1361-ND	3.57	2.04	1.74	TX24-100R-12ST-N1E
120	74.93	88.8	2.8	670-1367-ND	3.15	1.89	1.68	TX24-120R-6ST-E1E
Fig. 2 — Receptacle, Right Angle – Thru Hole								
30	17.78	31.7	—	670-1378-ND◊	1.72	.97	.76	TX24-30R-LT-H1E
	17.78	31.7	—	670-1379-ND	1.64	.93	.72	TX24-30R-LT-N1E
40	24.13	38.0	—	670-1386-ND◊	1.96	1.12	.96	TX24-40R-LT-H1E
	24.13	38.0	—	670-1387-ND	2.59	1.48	1.30	TX24-40R-LT-N1E
50	30.48	44.4	—	670-1394-ND◊	2.38	1.36	1.16	TX24-50R-LT-H1E
	30.48	44.4	—	670-1395-ND	2.28	1.30	1.11	TX24-50R-LT-N1E
60	36.83	50.7	—	670-1405-ND◊	2.59	1.48	1.26	TX24-60R-LT-H1E
	36.83	50.7	—	670-1406-ND	2.52	1.44	1.23	TX24-60R-LT-N1E
80	49.53	63.4	—	670-1417-ND	3.12	1.78	1.52	TX24-80R-LT-N1E
100	62.23	76.1	—	670-1365-ND◊	3.15	1.89	1.68	TX24-100R-LT-H1E
120	74.93	88.8	—	670-1369-ND◊	4.08	2.38	2.18	TX24-120R-LT-H1E
TX25 Series								
Fig. 3 — Plug, Straight – Thru Hole								
30	17.78	31.7	11.2	670-1436-ND◊	1.72	.97	.76	TX25-30P-8ST-H1E
	17.78	31.7	15.2	670-1433-ND	1.64	.93	.72	TX25-30P-12ST-N1E
40	24.13	38.0	9.2	670-1442-ND	1.96	1.12	.96	TX25-40P-6ST-E1E
	24.13	38.0	9.2	670-1443-ND◊	1.96	1.12	.96	TX25-40P-6ST-H1E
	24.13	38.0	9.2	670-1444-ND	1.86	1.06	.93	TX25-40P-6ST-N1E
	24.13	38.0	11.2	670-1445-ND	1.96	1.12	.96	TX25-40P-8ST-E1E
	24.13	38.0	11.2	670-1446-ND◊	1.96	1.12	.96	TX25-40P-8ST-H1E
	24.13	38.0	15.2	670-1440-ND◊	1.96	1.12	.96	TX25-40P-12ST-H1E
	24.13	38.0	15.2	670-1441-ND	1.86	1.06	.93	TX25-40P-12ST-N1E
50	30.48	44.4	9.2	670-1451-ND	2.38	1.36	1.16	TX25-50P-6ST-E1E
	30.48	44.4	9.2	670-1453-ND	2.28	1.30	1.11	TX25-50P-6ST-N1E
	30.48	44.4	15.2	670-1450-ND	2.28	1.30	1.11	TX25-50P-12ST-N1E
60	36.83	50.7	9.2	670-1459-ND	2.56	1.46	1.25	TX25-60P-6ST-E1E
	36.83	50.7	11.2	670-1464-ND	2.52	1.44	1.23	TX25-60P-8ST-N1E
	36.83	50.7	15.2	670-1457-ND◊	2.56	1.46	1.25	TX25-60P-12ST-H1E
80	49.53	63.4	9.2	670-1470-ND	3.26	1.86	1.59	TX25-80P-6ST-E1E
	49.53	63.4	9.2	670-2053-ND ***NEW!***	2.79	1.86	1.59	TX25-80P-6ST-H1E
	49.53	63.4	9.2	670-1471-ND	3.12	1.78	1.52	TX25-80P-6ST-N1E
	49.53	63.4	11.2	670-2038-ND ***NEW!***	2.79	1.86	1.59	TX25-80P-8ST-H1E
100	62.23	76.1	9.2	670-1420-ND	3.15	1.89	1.68	TX25-100P-6ST-E1E
	62.23	76.1	11.2	670-1423-ND	3.15	1.89	1.68	TX25-100P-8ST-E1E
	62.23	76.1	11.2	670-1424-ND◊	3.15	1.89	1.68	TX25-100P-8ST-H1E
	62.23	76.1	11.2	670-1425-ND	3.57	2.04	1.74	TX25-100P-8ST-N1E
	62.23	76.1	15.2	670-1418-ND◊	3.15	1.89	1.68	TX25-100P-12ST-H1E
	62.23	76.1	15.2	670-1419-ND	3.57	2.04	1.74	TX25-100P-12ST-N1E
120	74.93	88.8	9.2	670-1428-ND◊	4.08	2.38	2.18	TX25-120P-6ST-H1E
Fig. 4 — Plug, Right Angle – Thru Hole								
30	17.78	31.7	—	670-1438-ND◊	1.72	.97	.76	TX25-30P-LT-H1E
40	24.13	38.0	—	670-1448-ND	1.86	1.06	.93	TX25-40P-LT-N1E
44	30.48	44.4	—	670-2065-ND◊ ***NEW!***	1.86	1.24	1.06	TX25-44P-LT-H1E
50	30.48	44.4	—	670-2054-ND◊ ***NEW!***	2.04	1.36	1.16	TX25-50P-LT-H1E
	30.48	44.4	—	670-1456-ND	2.28	1.30	1.11	TX25-50P-LT-N1E
60	36.83	50.7	—	670-1465-ND◊	2.59	1.48	1.26	TX25-60P-LT-H1E
80	49.53	63.4	—	670-1474-ND◊	3.26	1.86	1.59	TX25-80P-LT-H1E
	49.53	63.4	—	670-1475-ND	3.12	1.78	1.52	TX25-80P-LT-N1E
100	62.23	76.1	—	670-1426-ND◊	3.15	1.89	1.68	TX25-100P-LT-H1E
120	74.93	88.8	—	670-1430-ND◊	4.08	2.45	2.18	TX25-120P-LT-H1E
140	90.17	104.04	—	670-1431-ND	6.66	3.78	3.56	TX25-140P-LT-N1E

◊ With Hook Plug

NEW! IL-312 Series

0.50mm Connectors

IL-312 Series: Specifications: • Current Rating: 0.3A per contact • Dielectric Withstanding Voltage: 500VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 40mΩ max. • Operating Temperature: -40°C ~ 85°C **Materials and Finishes:** • Insulator: Heat-resistant plastic (UL94V-0, Black) • Contact: Copper alloy/ Gold plating: connecting area 0.1µm (.000004") min.

Fig. 1

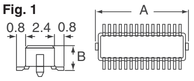

Fig. 2

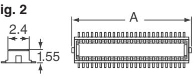

Fig. 3

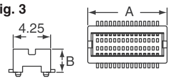

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
SMD Plug								
1	20	6.1	2.05	670-2406-ND	2.86	1.76	1.50	IL-312-20P-VF30-A1
	30	8.6	2.05	670-1879-ND	3.33	1.95	1.78	IL-312-30P-VF30-A1
	50	13.6	2.05	670-1883-ND	5.28	3.08	2.82	IL-312-50P-VF30-A1
	80	21.1	2.05	670-1887-ND	6.84	3.99	3.65	IL-312-80P-VF30-A1
	100	26.1	2.05	670-1875-ND	8.63	5.87	5.18	IL-312-100P-VF30-A1
	20	6.1	1.55	670-1728-ND	2.86	1.76	1.50	IL-312-20PB-VF-A1
	40	11.1	1.55	670-1881-ND	4.32	2.52	2.31	IL-312-40PB-VF-A1
	50	13.6	1.55	670-1884-ND	5.28	3.08	2.82	IL-312-50PB-VF-A1
	60	16.1	1.55	670-1885-ND	6.24	3.64	3.33	IL-312-60PB-VF-A1
	70	18.6	1.55	670-1886-ND	7.05	4.12	3.76	IL-312-70PB-VF-A1
	100	26.1	1.55	670-1877-ND	8.63	5.87	5.18	IL-312-100PB-VF-A1
	20	6.1	2.05	670-1878-ND	2.86	1.76	1.50	IL-312-20PB-VF30-A1
	30	8.6	2.05	670-1729-ND	3.33	1.95	1.78	IL-312-30PB-VF30-A1
	40	11.1	2.05	670-1882-ND	4.32	2.52	2.31	IL-312-40PB-VF30-A1
2	20	6.1	—	670-1891-ND	2.86	1.76	1.50	IL-312-A20P-VF-A1
	30	8.6	—	670-1894-ND	3.33	1.95	1.78	IL-312-A30P-VF-A1
	40	11.1	—	670-1734-ND	2.34	1.44	1.23	IL-312-A40P-VF-A1
	50	13.6	—	670-1901-ND	5.28	3.08	2.82	IL-312-A50P-VF-A1
	60	16.1	—	670-1735-ND	6.24	3.64	3.33	IL-312-A60P-VF-A1
	70	18.6	—	670-1737-ND	7.05	4.12	3.76	IL-312-A70P-VF-A1
	80	21.1	—	670-1909-ND	7.86	4.59	4.20	IL-312-A80P-VF-A1
	100	26.1	—	670-1888-ND	8.63	5.87	5.18	IL-312-A100P-VF-A1

(Continued)

NEW! IL-312 Series
0.50mm Connectors *(Cont.)*

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				SMD Receptacle				
3	20	6.75	2.2	670-1732-ND	2.86	1.76	1.50	IL-312-A20S-VF-A1
	40	11.75	2.2	670-1898-ND	2.34	1.44	1.23	IL-312-A40S-VF-A1
	50	14.25	2.2	670-2478-ND	5.28	3.00	2.82	IL-312-A50S-VF-A1
	60	16.75	2.2	670-2479-ND	6.24	3.54	3.33	IL-312-A60S-VF-A1
	70	19.25	2.2	670-1738-ND	7.05	4.12	3.76	IL-312-A70S-VF-A1
	80	21.75	2.2	670-1910-ND	7.86	4.59	4.20	IL-312-A80S-VF-A1
	100	26.75	2.2	670-1730-ND	8.63	5.87	5.18	IL-312-A100S-VF-A1
	20	6.75	2.7	670-1733-ND	2.86	1.76	1.50	IL-312-A20S-VFH05-A1
	30	9.25	2.7	670-1895-ND	3.33	1.95	1.78	IL-312-A30S-VFH05-A1
	40	11.75	2.7	670-1899-ND	4.32	2.52	2.31	IL-312-A40S-VFH05-A1
	50	14.25	2.7	670-1902-ND	5.28	3.08	2.82	IL-312-A50S-VFH05-A1
	60	16.75	2.7	670-1905-ND	6.24	3.64	3.33	IL-312-A60S-VFH05-A1
	70	19.25	2.7	670-1739-ND	7.05	4.12	3.76	IL-312-A70S-VFH05-A1
	80	21.75	2.7	670-1911-ND	7.86	4.59	4.20	IL-312-A80S-VFH05-A1
	100	26.75	2.7	670-1731-ND	8.63	5.87	5.18	IL-312-A100S-VFH05-A1
	20	6.75	2.2	670-1892-ND	2.86	1.76	1.50	IL-312-A20SB-VF-A1
	30	9.25	2.2	670-1896-ND	3.33	1.95	1.78	IL-312-A30SB-VF-A1
	40	11.75	2.2	670-1900-ND	4.32	2.52	2.31	IL-312-A40SB-VF-A1
	50	14.25	2.2	670-1903-ND	5.28	3.08	2.82	IL-312-A50SB-VF-A1
	60	16.75	2.2	670-1906-ND	6.24	3.64	3.33	IL-312-A60SB-VF-A1
	70	19.25	2.2	670-1907-ND	7.05	4.12	3.76	IL-312-A70SB-VF-A1
	80	21.75	2.2	670-1912-ND	9.15	6.23	5.49	IL-312-A80SB-VF-A1
	100	26.75	2.2	670-1889-ND	8.63	5.87	5.18	IL-312-A100SB-VF-A1
	20	6.75	2.7	670-1893-ND	2.86	1.76	1.50	IL-312-A20SB-VFH05-A1
	30	9.25	2.7	670-1897-ND	3.33	1.95	1.78	IL-312-A30SB-VFH05-A1
	50	14.25	2.7	670-1904-ND	5.28	3.08	2.82	IL-312-A50SB-VFH05-A1
	60	16.75	2.7	670-1736-ND	6.24	3.64	3.33	IL-312-A60SB-VFH05-A1
	70	19.25	2.7	670-1908-ND	7.05	4.12	3.76	IL-312-A70SB-VFH05-A1
	80	21.75	2.7	670-1913-ND	7.86	4.59	4.20	IL-312-A80SB-VFH05-A1
	100	26.75	2.7	670-1890-ND	8.63	5.87	5.18	IL-312-A100SB-VFH05-A1

NEW! IL-AG5 / 7 / 9 Series
2.5mm Automotive Connectors

IL-AG5/IL-AG7 Series: Features: • Designed for automotive instrument panel applications • Mechanical lock assures positive mating • Unique housing configuration helps prevent mismating • Double locking mechanism prevents dislodging of contacts **Specifications:** • Contact Spacing: 2.5mm (.098") • Current Rating: 3A per contact • Dielectric Withstanding Voltage: 1000VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 10mΩ max. • Operating Temperature: -40°C ~ 85°C **Applicable Wire (Stranded):** • AV, AVS, AVSS: 22 ~ 20AWG • AVS, AVSS: 18AWG **Materials and Finishes:** • Insulator: PBT • Pin Contact: Brass/ Tin plating, Cable plug pin contact: Highly conductive Copper alloy • Socket Contact: Phospher Bronze/ Tin plating

IL-AG9 Series: Features: • Uses the existing 025 contact tab size (0.64 x 0.64) IL-AG5 terminals • Structure with a key to prevent twisted mating, mis-mating or reverse insertion • Mechanical lock method for withstanding vibration and pulling **Specifications:** • Contact Spacing: 2.50mm (.098") • Contact Resistance: 10mΩ max. (initial) • Withstanding Voltage: 1000VACr.m.s. for one minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 3A • Insulation Resistance: 100MΩ min. (initial) • Rated Life: 50 cycles **Applicable Wire:** • AV, AVS, AVSS: 22 ~ 20AWG • AVS, AVSS: 18AWG **Materials and Finishes:** • Insulator: PBT/ Color: green • Relay Pin Contact: Copper alloy/ Tin plating • Socket Contact: Phospher Bronze/ Tin plating

Fig. 1 — Plug

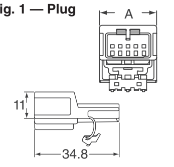

Fig. 2 — Plug

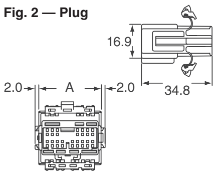

Fig. 3 — Plug

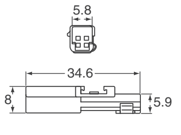

Fig. 4 — Plug

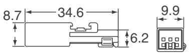

Fig. 5 — Receptacle

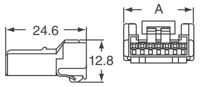

Fig. 6 — Receptacle

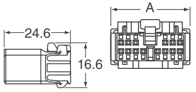

Fig. 7 — Receptacle

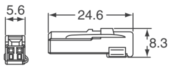

Fig. 8 — Receptacle

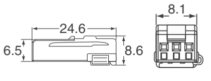

Fig. 9 — Header

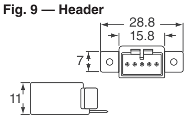

Fig. 10 — Vertical Header

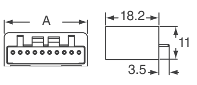

Fig. 11 — Right Angle Header

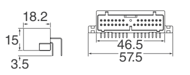

Fig. 12 — Right Angle Header

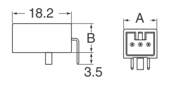

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				Plug				
1	5	18.3	—	670-2209-ND	1.24	.78	.62	IL-AG5-5P-S3C1
	7	23.3	—	670-2210-ND	2.67	1.62	1.38	IL-AG5-7P-S3C1
2	16	30.8	—	670-2208-ND	2.97	1.80	1.53	IL-AG5-16P-D3C1
	22	38.3	—	670-1817-ND	3.52	1.98	1.59	IL-AG5-22P-D3C1
3	2	—	—	670-2410-ND	.65	.33	.26	IL-AG9-2P-S3C1
4	3	—	—	670-2215-ND	2.08	1.30	1.04	IL-AG9-3P-S3C1
				Receptacle				
5	7	21.1	—	670-2211-ND	1.16	.73	.58	IL-AG5-7S-S3C1
	7	21.1	—	670-2212-ND	.89	.53	.42	IL-AG5-7S-S3C1-B
	5	—	—	670-1802-ND	.48	.24	.18	IL-AG5-5SK-S3C1-LB
	5	16.1	—	670-1799-ND	.48	.24	.18	IL-AG5-5S-S3C1
	6	18.6	—	670-1800-ND	.54	.27	.21	IL-AG5-6S-S3C1
	10	28.6	—	670-1814-ND	.60	.30	.24	IL-AG5-10S-S3C1
6	14	26.7	—	670-1815-ND	1.20	.60	.48	IL-AG5-14S-D3C1-A
	16	29.2	—	670-1816-ND	1.40	.79	.63	IL-AG5-16S-D3C1-A
	22	36.7	—	670-2407-ND	1.48	.84	.67	IL-AG5-22S-D3C1
	30	46.7	—	670-1818-ND	1.98	1.32	1.13	IL-AG5-30S-D3C1
7	2	—	—	670-2133-ND	.54	.27	.21	IL-AG9-2S-S3C1
8	3	—	—	670-2217-ND	1.06	.63	.50	IL-AG9-3S-S3C1
				Header				
9	5	—	—	670-2214-ND	1.78	1.08	.92	IL-AG7-5P-S3T2
				Vertical Header				
10	4	13.3	—	670-1819-ND	2.64	1.76	1.50	IL-AG5-4P-S3T2
	5	15.8	—	670-2409-ND	1.04	.59	.47	IL-AG5-5P-S3T2
	10	28.3	—	670-1813-ND	1.84	1.04	.83	IL-AG5-10P-S3T2
				Right Angle Header				
11	30	—	—	670-2131-ND	3.85	2.70	2.47	IL-AG7-30P-D3L2
12	4	13.3	—	670-2408-ND	1.68	.84	.76	IL-AG5-4P-S3L2
	5	15.8	11	670-1812-ND	1.35	.68	.54	IL-AG5-5PK-S3L2-LB
	3	10.3	8.9	670-2216-ND	3.23	1.96	1.67	IL-AG9-3PL-S3L2
				Contacts				
—	Crimp Socket Tin 18 ~ 22 AWG			670-1785-1-ND†	.18	.08	.07	IL-AG5-C1-5000
				670-1785-2-ND‡	183.92/5,000			IL-AG5-C1-5000
	Socket Gold 18 ~ 22 AWG			670-2213-ND	.67	.34	.27	IL-AG5-C1-1E-5000
	Pin Tin 18 ~ 22 AWG			670-1790-1-ND†	.25	.11	.09	IL-AG5-PC1-5000
				670-1790-2-ND‡	251.36/5,000			IL-AG5-PC1-5000

† Cut Tape ‡ Tape and Reel

NEW! IL-S Series
2.0mm Connectors

Features: • Box type pin header prevents mismating • Design prevents flux wicking

Specifications: • Current Rating: 3A • Operating Voltage: 300VAC, 400VDC • Dielectric Withstanding Voltage: 1,000VACr.m.s. (one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 20mΩ max. • Applicable Wire: 24 ~ 28AWG, stranded • Operating Temperature: -40°C ~ 85°C

Materials and Finishes: • Insulator: 6-6 Nylon (UL94V-0, Light Brown) • Pin Contact: Brass/Tin plating over Nickel • Socket Contact: Phosphor Bronze/ Tin plated

Fig. 1

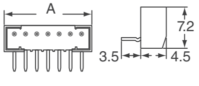

Fig. 2

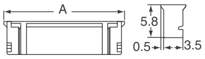

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Pricing 1	25	100	JAE Part No.
			Header				
1	3	7.6	670-2228-ND	.30	3.75	11.25	IL-S-3P-S2L2-EF
			Receptacle				
2	3	7.6	670-2220-ND	.16	1.75	5.50	IL-S-3S-S2C2
	8	17.6	670-1751-ND	.30	3.44	11.25	IL-S-8S-S2C2
	8	17.6	670-2223-ND	.30	3.75	12.50	IL-S-8S-S2C2-S
—	Crimp Socket Tin 24 ~ 28 AWG		670-2368-1-ND†	.10	1.25	3.31	IL-S-C2-10000
			670-2368-2-ND‡	170.34/10,000			IL-S-C2-10000

† Cut Tape ‡ Tape and Reel

NEW! IL-Z Series
1.25mm Connectors

Features: • Crimp type for efficient wire termination • High reliability socket contacts • Boxed pin header design prevents mismating • Anti-wicking feature

Specifications: • Current Rating: AC/DC 1A per contact • Dielectric Withstanding Voltage: 500VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 20mΩ max. • Operating Temperature: -40°C ~ 70°C • Applicable Wire: 32 ~ 28AWG (stranded) • Voltage Rating: AC/DC 200V

Materials and Finishes: • Insulator: Pin Header and Socket Housing: 6-6 Nylon (UL94V-0, Light Brown), SMT Pin Header: PPS (UL94V-0, Light Gray) • Pin Contact: Brass/ Tin plating • Socket Contact: Phosphor Bronze/ Tin plating • Hold-down: Phosphor Bronze/ Tin plating

Fig. 1

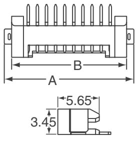

Fig. 2

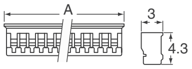

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	JAE Part No.
				Header				
1	2	7.65	5.65	670-1752-ND	.75	9.38	30.00	IL-Z-2PL-SMTYE
				Receptacle				
2	2	3.95	—	670-1753-ND	.21	2.44	7.50	IL-Z-2S-S125C3
—	Crimp Socket Tin 22 ~ 26 AWG			670-2369-1-ND†	.16	1.84	5.56	IL-Z-C1-A-7000
				670-2369-2-ND‡	249.20/7,000			IL-Z-C1-A-7000
	Socket Tin 28 ~ 32 AWG			670-2370-1-ND†	.08	.92	2.78	IL-Z-C3-A-15000
				670-2370-2-ND‡	250.43/15,000			IL-Z-C3-A-15000
	Socket Gold 28 ~ 32 AWG			670-2231-1-ND†	.17	2.09	5.50	IL-Z-C3-A-1-15000
				670-2231-2-ND‡	400.32/15,000			IL-Z-C3-A-1-15000

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

samtec

.0197" (0.50mm) High Speed Sockets and Headers
QSH and QTH Series

Specifications: **(QSH Series)** • **Insulator Material:** Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Current Rating:** 1.0A @ 30°C Temperature Rise (contact); 7.8A @ 30°C Temperature Rise (ground plane) • **Operating Temperature:** -55°C ~ 125°C • **Voltage Rating:** 125VAC mated with QTH and 5mm Stack Height • **Mates with:** QTH

Specifications: **(QTH Series)** • **Insulator Material:** Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Current Rating:** 1.0A @ 30°C Temperature Rise (contact); 7.8A @ 30°C Temperature Rise (ground plane) • **Operating Temperature:** -55°C ~ 125°C • **Voltage Rating:** 125VAC mated with QSH and 5mm Stack Height • **Mates with:** QSH

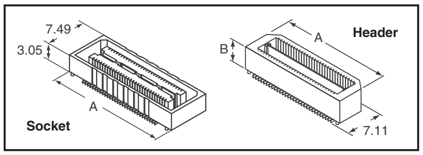

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each		
	A	B		1	10	100
			Sockets			
60	41.27	—	SAM8180-ND	9.38	7.04	5.87
120	81.27	—	SAM8181-ND	10.28	7.83	6.71
180	121.27	—	SAM8182-ND	13.53	10.64	8.92
240	161.27	—	SAM8183-ND	16.39	12.67	10.81
300	201.27	—	SAM8184-ND	19.55	15.37	13.27
			Headers			
60	40.00	4.27	SAM8185-ND	9.58	7.19	5.99
60	40.00	7.26	SAM8186-ND	9.86	7.20	6.17
60	40.00	10.27	SAM8187-ND	14.48	11.39	9.55
60	40.00	15.25	SAM8188-ND	14.96	11.77	9.86
120	80.00	4.27	SAM8189-ND	10.49	7.98	6.84
120	80.00	7.26	SAM8190-ND	10.79	8.21	7.04
120	80.00	10.27	SAM8191-ND	16.54	12.79	10.72
120	80.00	15.25	SAM8192-ND	17.09	13.21	11.08
180	120.00	4.27	SAM8193-ND	13.77	10.83	9.08
180	120.00	7.26	SAM8194-ND	14.19	11.16	9.36
180	120.00	10.27	SAM8195-ND	20.68	16.86	14.48
180	120.00	15.26	SAM8196-ND	21.36	17.41	14.96
240	160.00	4.27	SAM8197-ND	16.70	12.91	10.82
240	160.00	7.26	SAM8198-ND	17.20	13.30	11.15
240	160.00	10.27	SAM8199-ND	25.06	20.43	17.55
240	160.00	15.26	SAM8200-ND	25.90	21.11	18.13
300	200.00	4.27	SAM8201-ND	19.93	15.66	13.53
300	200.00	7.26	SAM8202-ND	20.52	16.13	13.93
300	200.00	10.27	SAM8203-ND	30.56	25.08	21.94
300	200.00	15.26	SAM8204-ND	31.55	25.89	22.66

.0315" (0.80mm) High Speed Sockets and Headers
QSE and QTE Series

Specifications: • **Insulator Material:** Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Current Rating:** Contacts: 2A @ 80°C, Ground Plane: 9.5A @ 80°C • **Operating Temperature Range:** -55°C ~ 125°C • **Voltage Rating:** 225VAC when mated and 5mm Stack Height • **QTE Series** Mates with QSE • **QSE Series** Mates with QTE

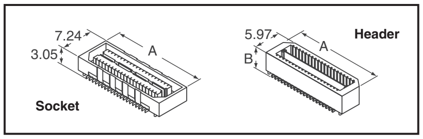

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each		
	A	B		1	10	100
			Sockets			
40	21.27	—	SAM8123-ND	6.53	4.83	4.00
80	41.27	—	SAM8124-ND	8.95	6.72	5.60
120	61.27	—	SAM8125-ND	10.28	7.83	6.71
160	81.27	—	SAM8126-ND	12.29	9.45	7.92
200	101.27	—	SAM8127-ND	13.66	10.75	9.01
			Headers			
40	20.00	4.27	SAM8128-ND	6.65	4.93	4.07
40	20.00	7.26	SAM8129-ND	6.85	5.07	4.20
40	20.00	10.27	SAM8130-ND	7.97	5.98	4.98
40	20.00	15.24	SAM8131-ND	10.42	7.93	6.80
80	40.00	4.27	SAM8132-ND	9.12	6.84	5.70
80	40.00	7.26	SAM8133-ND	9.38	7.04	5.87
80	40.00	10.27	SAM8134-ND	10.90	8.30	7.11
80	40.00	15.24	SAM8135-ND	14.26	11.21	9.40
120	60.00	4.27	SAM8136-ND	10.49	7.98	6.84
120	60.00	7.26	SAM8137-ND	10.79	8.21	7.04
120	60.00	10.27	SAM8138-ND	12.80	9.85	8.26
120	60.00	15.24	SAM8139-ND	17.09	13.21	11.08
160	80.00	4.27	SAM8140-ND	12.53	9.64	8.08
160	80.00	7.26	SAM8141-ND	12.92	9.93	8.33
160	80.00	10.27	SAM8142-ND	15.29	12.03	10.08
160	80.00	15.24	SAM8143-ND	19.95	15.68	13.54
200	100.00	4.27	SAM8144-ND	13.93	10.96	9.18
200	100.00	7.26	SAM8145-ND	14.34	11.28	9.46
200	100.00	10.27	SAM8146-ND	17.38	13.43	11.26
200	100.00	15.24	SAM8147-ND	21.58	17.59	15.11

.0315" (0.80mm) Edge Rate™ Sockets and Headers
ERF8 and ERM8 Series

Specifications:

• **Insulator Material:** Black LCP • **Plating:** Gold or Tin over 50µ" (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 125°C • **Socket Terminal Material:** BeCu • **Header Terminal Material:** Phosphor Bronze

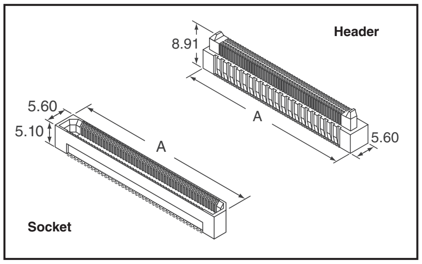

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each		
			1	10	50
		Sockets			
20	14	SAM8618CT-ND	5.06	3.59	3.04
20	14	SAM8618TR-ND§		356.50/125	
40	22	SAM8619CT-ND	5.38	3.94	3.38
40	22	SAM8619TR-ND§		395.89/125	
60	30	SAM8620CT-ND	6.63	4.91	4.32
60	30	SAM8620TR-ND§		496.88/125	
80	38	SAM8621CT-ND	7.33	5.43	4.78
80	38	SAM8621TR-ND§		549.38/125	
100	46	SAM8622CT-ND	7.93	5.71	5.08
100	46	SAM8622TR-ND§		594.38/125	
120	54	SAM8623CT-ND	8.40	6.30	5.60
120	54	SAM8623TR-ND§		656.25/125	
140	62	SAM8624CT-ND	8.98	6.74	5.99
140	62	SAM8624TR-ND§		701.25/125	
150	66	SAM8625CT-ND	9.17	6.88	6.12
150	66	SAM8625TR-ND§		716.25/125	
		Headers			
20	14	SAM8610CT-ND	5.06	3.59	3.04
20	14	SAM8610TR-ND§		356.50/125	
40	22	SAM8611CT-ND	5.38	3.94	3.38
40	22	SAM8611TR-ND§		395.89/125	
60	30	SAM8612CT-ND	6.63	4.91	4.32
60	30	SAM8612TR-ND§		496.88/125	
80	38	SAM8613CT-ND	7.33	5.43	4.78
80	38	SAM8613TR-ND§		549.38/125	
100	46	SAM8614CT-ND	7.93	5.71	5.08
100	46	SAM8614TR-ND§		594.38/125	
120	54	SAM8615CT-ND	8.40	6.30	5.60
120	54	SAM8615TR-ND§		656.25/125	
140	62	SAM8616CT-ND	8.98	6.74	5.99
140	62	SAM8616TR-ND§		701.25/125	
150	66	SAM8617CT-ND	9.17	6.88	6.12
150	66	SAM8617TR-ND§		716.25/125	

§ Tape and Reel

.050" (1.27mm) Sockets and Headers
SFML, TFML and TFM Series

Specifications:

• **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Current Rating:** 2A @ 80°C ambient • **Voltage Rating:** 350VAC • **Operating Temperature Range:** -55°C ~ 125°C • **Socket Contact Resistance:** 15mΩ max • **Socket Insertion Depth:** .120" (3.05mm) to .160" (4.06mm) • **Socket Insertion Force:** 2.5oz (0.69N) average (single contact only) • **Header Locking Features:** 10 ~ 20 (one latch), 25 and 30 (two latches), 35 ~ 50 (three latches) • **Socket Max Cycles:** 100 with 10µ" (0.25µm) Gold • **SFML Series** Mates with TFML Series • **TFML Series** Mates with SFML Series

Fig. 1

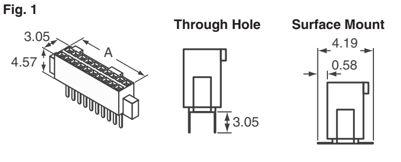

Fig. 2

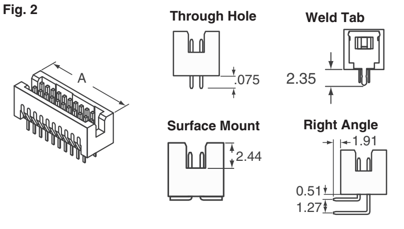

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each		
				1	10	100
			Sockets			
			Through Hole — SFML			
1	20	16.64	SAM8241-ND	4.37	3.05	2.50
	30	22.99	SAM8243-ND	5.35	3.87	3.17
	40	29.34	SAM8245-ND	6.58	4.87	4.03
	50	35.69	SAM8247-ND	7.90	5.93	4.94
	70	48.39	SAM8251-ND	10.06	7.34	6.29
	90	61.09	SAM8255-ND	12.11	9.31	7.81
	100	67.44	SAM8257-ND	13.46	10.35	8.68
1	20	16.64	SAM8710-ND†	5.27	3.81	3.12
	30	22.99	SAM8711-ND†	6.42	4.70	3.83
	40	29.34	SAM8712-ND†	7.90	5.93	4.94
	50	35.69	SAM8713-ND†	9.86	7.20	6.17
	60	42.04	SAM8714-ND†	11.34	8.63	7.40
	70	48.39	SAM8715-ND†	11.77	9.05	7.59
	80	54.74	SAM8716-ND†	13.46	10.35	8.68
			Surface Mount — SFML			
1	20	16.64	SAM8242-ND	4.56	3.18	2.61
	30	22.99	SAM8244-ND	5.36	3.92	3.20
	40	29.34	SAM8246-ND	6.88	5.09	4.21
	50	35.69	SAM8248-ND	8.23	6.18	5.15
	60	42.04	SAM8250-ND	9.89	7.21	6.18
	70	48.39	SAM8252-ND	10.05	7.65	6.56
	80	54.74	SAM8254-ND	11.48	8.74	7.49
	90	61.09	SAM8256-ND	12.65	9.73	8.15
	100	67.44	SAM8258-ND	13.73	10.80	9.05
1	20	16.64	SAM8719-ND†	5.28	3.86	3.15
	30	22.99	SAM8720-ND†	6.45	4.78	3.95
	40	29.34	SAM8721-ND†	8.23	6.18	5.15
	50	35.69	SAM8722-ND†	9.87	7.51	6.44
	60	42.04	SAM8723-ND†	11.59	8.91	7.47
	80	54.74	SAM8725-ND†	13.73	10.80	9.05
			Headers			
			Through Hole — TFML			
2	20	15.88	SAM8259-ND	4.26	2.97	2.44
	30	22.23	SAM8262-ND	5.21	3.77	3.09
	50	34.93	SAM8268-ND	8.05	5.80	4.83
	60	41.28	SAM8271-ND	9.26	6.95	5.79
	80	53.98	SAM8274-ND	10.76	8.19	7.02
	90	60.33	SAM8277-ND	11.86	9.12	7.65
	100	66.68	SAM8280-ND	13.16	10.13	8.49
			Through Hole — Right Angle TFML			
2	20	15.88	SAM8260-ND	4.70	3.28	2.69
	30	22.23	SAM8263-ND	5.54	4.05	3.31
	40	28.58	SAM8266-ND	7.08	5.24	4.33
	50	34.93	SAM8269-ND	8.50	6.38	5.31
	90	60.33	SAM8278-ND	13.03	10.02	8.40
	100	66.68	SAM8281-ND	14.15	11.13	9.33

† Contact Material: Beryllium Copper

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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.050" (1.27mm) Sockets and Headers

SFML,TFML and TFM Series *(Cont.)*

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
			Through Hole TFM with Weld Tabs			
2	10	9.53	SAM8698-ND	2.98	2.02	1.59
	20	15.88	SAM8699-ND	4.73	3.30	2.71
	30	22.23	SAM8700-ND	5.38	3.94	3.21
	40	28.58	SAM8701-ND	6.70	4.96	4.11
	50	34.93	SAM8702-ND	7.90	5.93	4.94
			Surface Mount — TFML			
2	20	15.88	SAM8261-ND	4.70	3.28	2.69
	30	22.23	SAM8264-ND	5.54	4.05	3.31
	40	28.58	SAM8267-ND	7.08	5.24	4.33
	50	34.93	SAM8270-ND	8.50	6.38	5.31
	60	41.28	SAM8273-ND	9.78	7.44	6.38
	80	53.98	SAM8276-ND	11.59	8.91	7.47
	90	60.33	SAM8279-ND	13.03	10.02	8.40
			Surface Mount TFM with Weld Tabs			
2	10	9.53	SAM8704-ND	3.12	2.08	1.70
	20	15.88	SAM8705-ND	5.03	3.57	2.93
	30	22.23	SAM8706-ND	5.88	4.30	3.51
	40	28.58	SAM8707-ND	7.33	5.43	4.49
	50	34.93	SAM8708-ND	8.64	6.48	5.40
	60	41.28	SAM8709-ND	9.82	7.48	6.41

† Contact Material: Beryllium Copper

.050" (1.27mm) Socket Cable Assembly

SFSD Series

Specifications: • **Insulator Material:** Black LCP • **Contact Material:** BeCu • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 80°C • **Mates with:** TFM Series

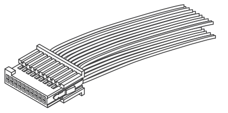

Single End

No. of Pos.	Cable Length	Digi-Key Part No.	Price Each 1	10	100
		Single End			
10	5"	SAM8662-ND	8.95	6.72	5.60
20	5"	SAM8663-ND	12.51	9.62	8.07
30	5"	SAM8664-ND	16.39	12.67	10.81
40	5"	SAM8665-ND	19.80	15.56	13.44
50	5"	SAM8666-ND	23.00	18.75	16.10
60	5"	SAM8667-ND	27.00	22.01	18.90
10	10"	SAM8668-ND	9.98	7.28	6.24
20	10"	SAM8669-ND	14.10	11.09	9.30
30	10"	SAM8670-ND	18.29	14.81	12.42
40	10"	SAM8671-ND	22.24	18.13	15.57
50	10"	SAM8672-ND	27.22	22.19	19.06
60	10"	SAM8673-ND	31.28	25.67	22.46
		Double End, Notch up, Straight			
30	5"	SAM8682-ND	24.86	20.27	17.41
40	5"	SAM8690-ND	30.60	25.11	21.97
20	10"	SAM8678-ND	20.40	16.63	14.28
30	10"	SAM8686-ND	27.40	22.34	19.18
40	10"	SAM8694-ND	33.89	27.81	24.34
		Double End, Notch down, Straight			
30	5"	SAM8683-ND	24.86	20.27	17.41
40	5"	SAM8691-ND	30.60	25.11	21.97
30	10"	SAM8687-ND	27.40	22.34	19.18
40	10"	SAM8695-ND	33.89	27.81	24.34
		Double End, Notch up, Crossed			
20	5"	SAM8676-ND	19.64	15.43	13.33
30	5"	SAM8684-ND	24.86	20.27	17.41
40	5"	SAM8692-ND	30.60	25.11	21.97
20	10"	SAM8680-ND	20.40	16.63	14.28
30	10"	SAM8688-ND	27.40	22.34	19.18
40	10"	SAM8696-ND	33.89	27.81	24.34
		Double End, Notch down, Crossed			
20	5"	SAM8677-ND	19.64	15.43	13.33
30	5"	SAM8685-ND	24.86	20.27	17.41
40	5"	SAM8693-ND	30.60	25.11	21.97
20	10"	SAM8681-ND	20.40	16.63	14.28
30	10"	SAM8689-ND	27.40	22.34	19.18
40	10"	SAM8697-ND	33.89	27.81	24.34

.050" (1.27mm) Ejector Headers

EHF Series

Specifications:

- **Insulator Material:** Black Liquid Crystal Polymer
- **Terminal Material:** Phosphor Bronze
- **Plating:** Tin or Gold over 50µ (1.27µm) Nickel
- **Current Rating:** 1.75A @ 80°C Ambient
- **Operating Temperature Range:** -55°C ~ 125°C
- **Mates with:** FFSD series

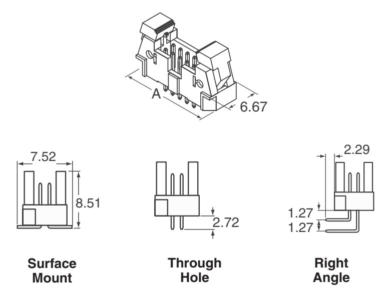

No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100
		Through Hole			
10	20.83	SAM8205-ND	3.36	2.24	1.83
20	27.18	SAM8208-ND	3.83	2.64	2.16
40	39.88	SAM8211-ND	5.27	3.81	3.12
50	46.23	SAM8214-ND	6.34	4.64	3.79
		Right Angle			
10	20.83	SAM8206-ND	4.23	2.92	2.38
20	27.18	SAM8209-ND	4.79	3.34	2.74
40	39.88	SAM8212-ND	6.33	4.69	3.88
50	46.23	SAM8215-ND	7.93	5.71	4.76
		Surface Mount			
10	20.83	SAM8207-ND	3.92	2.70	2.21
20	27.18	SAM8210-ND	4.42	3.09	2.53
40	39.88	SAM8213-ND	6.08	4.45	3.63
50	46.23	SAM8216-ND	7.30	5.41	4.47

.050" (1.27mm) IDC Cable Assemblies

FFSD Series

Specifications:

• **Insulator Material:** PBT • **Contact:** Beryllium Copper • **Plating:** 10µ" (0.25µm) Gold over 50µ" (1.27µm) Nickel on contact area; Tin over 50µ" (1.27µm) Nickel on balance • **Wire:** 30 AWG • **Current Rating:** 1A • **Operating Temperature Range:** -40°C ~ 105°C • **Lead Size Accepted:** 0.41mm (0.16") Square • **Contact Resistance:** 10mΩ maximum • **Insertion Depth:** 2.64mm (.104") ~ 3.17mm (.125") • **Insertion Force (Single contact only):** 5oz (1.39N) Average • **Withdrawal Force (Single contact only):** 3oz (0.83N) Average • **Mates with:** FTS, FTSH, EHF Series

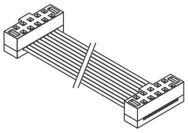

No. of Positions	Length (Inch)	Digi-Key Part No.	Price Each 1	10	100
		Double End — Female/Female			
10	2	SAM8217-ND	9.77	7.13	6.11
	6	SAM8218-ND	10.14	7.72	6.62
	12	SAM8219-ND	11.34	8.63	7.40
20	2	SAM8223-ND	11.39	8.67	7.43
	6	SAM8224-ND	11.90	9.16	7.68
	12	SAM8225-ND	13.07	10.06	8.43
40	2	SAM8229-ND	16.98	13.13	11.01
	6	SAM8230-ND	17.43	14.11	11.83
	12	SAM8231-ND	19.28	15.15	13.09
50	2	SAM8235-ND	19.17	15.07	13.02
	6	SAM8236-ND	20.41	16.04	13.86
	12	SAM8237-ND	21.20	17.28	14.84

.0787" (2mm) Ejector Headers

EHT Series

Specifications:

- **Insulator Material:** Black Liquid Crystal Polymer
- **Terminal Material:** Phosphor Bronze
- **Plating:** Tin or Gold over 50µ" (1.27µm) Nickel
- **Current Rating:** 3A @ 80°C ambient
- **Operating Temperature Range:** -55°C ~ 125°C
- **Mates with:** TCSD

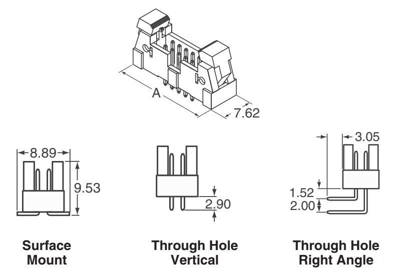

No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100
		Through Hole —Vertical			
10	23.79	SAM8554-ND	5.67	4.15	3.38
20	33.79	SAM8557-ND	6.30	4.67	3.86
40	53.79	SAM8560-ND	10.53	8.02	6.87
50	63.79	SAM8563-ND	12.87	9.90	8.30
		Through Hole — Right Angle			
10	23.79	SAM8555-ND	6.21	4.55	3.71
20	33.79	SAM8558-ND	6.93	5.13	4.24
40	53.79	SAM8561-ND	11.32	8.71	7.30
50	63.79	SAM8564-ND	13.84	10.89	9.13
		Surface Mount			
10	23.79	SAM8556-ND	7.55	5.44	4.53
20	33.79	SAM8559-ND	8.33	6.25	5.21
40	53.79	SAM8562-ND	13.51	10.63	8.91
50	63.79	SAM8565-ND	16.79	12.98	10.88

.0787" (2mm) IDC Cable Assemblies

TCSD Series

Specifications:

- **Insulator Material:** Black Glass Filled Polyester
- **Contact Material:** Beryllium Copper
- **Plating:** Gold or Tin over 50µ" (1.27µm) Nickel
- **Wire:** 28AWG 7/36 Stranded, Tinned, Copper with Gray PVC Insulator
- **Current Rating:** 1A
- **Operating Temperature Range:** -40°C ~ 105°C
- **Lead Size Accepted:** .019" (0.48mm) ~ .021" (0.53mm)
- **Contact Resistance:** 10mΩ max.
- **Insertion Depth:** .113" (2.87mm) ~ .125" (3.17mm)
- **Insertion Force:** 2oz (0.56N) average (single contact only)
- **Withdrawal Force:** 1.4oz (0.39N) average (single contact only)
- **Mates with:** TMM, EHT

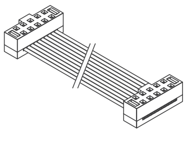

No. of Positions	Length (Inch)	Digi-Key Part No.	Price Each 1	10	100
		Double End — Female/Female			
40	2	SAM8542-ND	15.07	11.86	9.94
	6	SAM8543-ND	16.37	12.65	10.79
	12	SAM8544-ND	17.45	14.13	11.85
50	2	SAM8548-ND	17.01	13.77	11.55
	6	SAM8549-ND	18.23	14.76	12.37
	12	SAM8550-ND	20.08	15.78	13.63

0.80mm ~ 2.00mm Sockets

CLE Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Beryllium Copper • Plating: Gold over 50µ" (1.27µm) Nickel • Current Rating: .75A @ 80°C ambient • Operating Temperature: -55°C ~ 125°C • Contact Resistance: 15 mΩ max. (initial) • ***Mates with: FTE Series***

CLM Series: Specifications: • Insulator Material: Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: Pre-plated 10µ" (0.25µm) Gold on Contact, Tin-Lead on Tail • Current Rating: 1.5A @ 80°C • Operating Temperature: -55°C ~ 125°C • Contact Resistance: 15mΩ maximum • ***Mates with: FTMH Series***

MLE Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Beryllium Copper • Operating Temperature: -55°C ~ 125°C • Plating: Gold over 10µ" (0.25µm) Nickel • ***Mates with: FTMH Series***

CLP Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Current Rating: 1.75A @ 80°C ambient • Operating Temperature: -55°C ~ 125°C • Contact Resistance: 10mΩ maximum • ***Mates with: FTSH, FTS Series***

FLE Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: Gold over 50µ" (1.27µm) Nickel • Current Rating: 1.75A @ 80°C ambient • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 15mΩ maximum • ***Mates with: FTSH, FTS Series***

CLT Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: 10µ" Gold over 50µ" (1.27µm) Nickel • Current Rating: 2A @ 80°C ambient • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 10mΩ max • ***Mates with: TMM Series***

MMS Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Operating Temperature Range: -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • Contact Resistance: 10mΩ max. • Current Rating: 2A @ 80°C ambient • ***Mates with: TMM, TCMD Series***

TLE Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: 10µ" Gold over 50µ" Nickel • Operating Temperature Range: -55°C ~ 125°C • ***Mates with: TMM Series***

SMM Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Beryllium Copper • Plating: 30µ" Gold on contact, Matte Tin on tail • Current Rating: 3A @ 80°C ambient • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 10mΩ max. • ***Mates with: TMM, TCMD Series***

SQT Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: 10µ" Gold over 50µ" Nickel • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 10mΩ max. • ***Mates with: TMM Series***

SQW Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: 10µ" Gold on contact, Matte Tin on Tail • Operating Temperature Range: -55°C ~ 105°C • Contact Resistance: 10mΩ max. • ***Mates with: TMM Series***

HOW TO ORDER:
4 EASY STEPS

How do I order a SAM1142 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

S □□□□□□ - □□ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	SAM1142-16-ND
Step 2.	3.92
Step 3.	16 x .27 = 4.32
Step 4.	Your Cost = $8.24

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	 10	 100
0.80mm					
CLE Series, Dual Row					
1	180	SAM1142-90-ND	26.37	22.86	19.34
1.00mm					
CLM Series, Dual Row					
2	100	SAM1129-50-ND	15.66	13.58	11.49
MLE Series, Dual Row					
3	150	SAM1132-75-ND	23.22	20.13	17.03
1.27mm					
CLP Series, Dual Row					
4	100	SAM1154-50-ND	14.10	12.22	10.34
	100	SAM1155-50-ND	13.44	11.65	9.86
FLE Series, Dual Rows					
5	150	SAM1226-75-ND	19.65	17.03	14.41
2.00mm					
CLT Series, Dual Row					
6	100	SAM1163-50-ND	13.53	11.73	9.93
	100	SAM1164-50-ND	12.90	11.18	9.46
7	100	SAM1165-50-ND	13.53	11.73	9.93
MMS Series, Dual Row					
8	80	SAM1227-40-ND	17.22	14.93	12.63
	80	SAM1231-40-ND	13.17	11.42	9.66
9	80	SAM1228-40-ND	12.42	10.77	9.11
	80	SAM1232-40-ND	9.48	8.22	6.96
10	80	SAM1236-40-ND	13.08	11.34	9.60
	80	SAM1240-40-ND	10.02	8.69	7.35
11	80	SAM1239-40-ND	13.89	12.04	10.19
MMS Series, Single Row					
12	40	SAM1230-40-ND	9.30	8.06	6.82
	40	SAM1234-40-ND	7.11	6.17	5.22
13	40	SAM1233-40-ND	8.97	7.78	6.58
14	40	SAM1238-40-ND	9.81	8.51	7.20
	40	SAM1242-40-ND	7.50	6.50	5.50
15	40	SAM1237-40-ND	12.36	10.72	9.07
TLE Series, Dual Row					
16	120	SAM1251-60-ND	15.42	13.37	11.31
SMM Series, Dual Row					
17	80	SAM1243-40-ND	18.06	15.66	13.25

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
0.80mm		
CLE Series, Dual Row		
SAM1142-XX-ND	3.92	.27
1.00mm		
CLM Series, Dual Row		
SAM1129-XX-ND	1.90	.30
MLE Series, Dual Row		
SAM1132-XX-ND	3.15	.29
1.27mm		
CLP Series, Dual Row		
SAM1154-XX-ND	2.21	.26
SAM1155-XX-ND	2.00	.25
FLE Series, Dual Rows		
SAM1226-XX-ND	3.07	.24
2.00mm		
CLT Series, Dual Row		
SAM1163-XX-ND	1.60	.26
SAM1164-XX-ND	1.91	.24
SAM1165-XX-ND	1.60	.26
MMS Series, Dual Row		
SAM1227-XX-ND	2.26	.41
SAM1231-XX-ND	1.87	.31
SAM1228-XX-ND	1.47	.30
SAM1232-XX-ND	1.08	.23
SAM1236-XX-ND	1.77	.31
SAM1240-XX-ND	1.26	.24
SAM1239-XX-ND	1.85	.33
MMS Series, Single Row		
SAM1230-XX-ND	1.28	.22
SAM1234-XX-ND	.91	.17
SAM1233-XX-ND	1.32	.21
SAM1238-XX-ND	1.43	.23
SAM1242-XX-ND	.93	.18
SAM1237-XX-ND	1.79	.29
TLE Series, Dual Row		
SAM1251-XX-ND	2.19	.24
SMM Series, Dual Row		
SAM1243-XX-ND	2.37	.43

Fig. 1

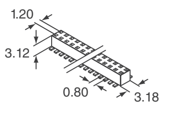

Fig. 2

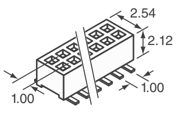

Fig. 3

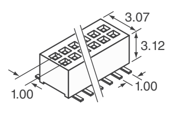

Fig. 4

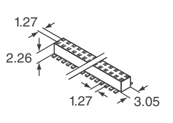

Fig. 5

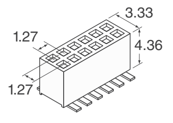

Fig. 6

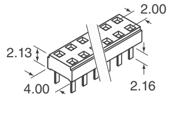

Fig. 7

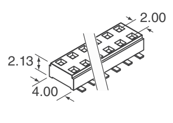

Fig. 8

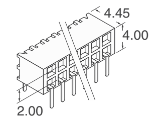

Fig. 9

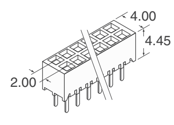

Fig. 10

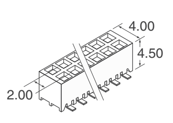

Fig. 11

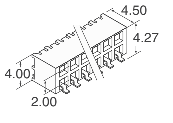

Fig. 12

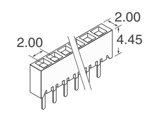

Fig. 13

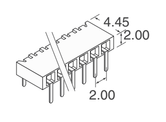

Fig. 14

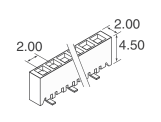

Fig. 15

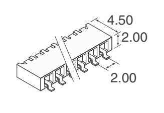

Fig. 16

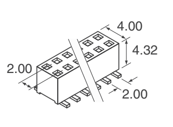

Fig. 17

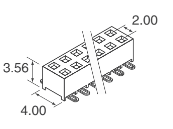

Fig. 18

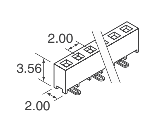

(Continued)

0.80mm ~ 2.00mm Sockets *(Cont.)*

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	10	100
SMM Series, Single Row					
18	40	SAM1244-40-ND	10.62	9.21	7.79
SQT Series, Dual Row					
19	100	SAM1245-50-ND	15.93	13.81	11.69
20	100	SAM1246-50-ND	17.52	15.19	12.85
SQT Series, Single Row					
21	50	SAM1247-50-ND	9.36	8.12	6.87
22	50	SAM1248-50-ND	10.29	8.92	7.55
SQW Series, Dual Row					
23	100	SAM1249-50-ND	11.64	10.09	8.54

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
SMM Series, Single Row		
SAM1244-XX-ND	1.51	.25
SQT Series, Dual Row		
SAM1245-XX-ND	2.19	.30
SAM1246-XX-ND	2.40	.33
SQT Series, Single Row		
SAM1247-XX-ND	1.10	.18
SAM1248-XX-ND	1.60	.19
SQW Series, Dual Row		
SAM1249-XX-ND	1.56	.22

Fig. 19

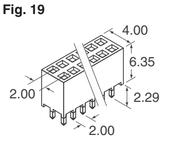

Fig. 20

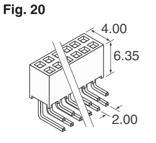

Fig. 21

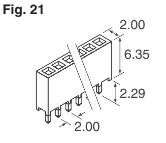

Fig. 22

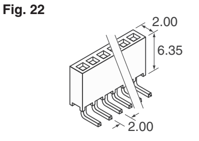

Fig. 23

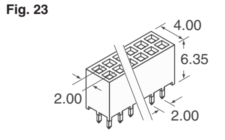

0.80mm ~ 2.00mm Headers

FTE Series:

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Plating: Gold over 50µ" (1.27µm) Nickel • Current Rating: .75A @ 80°C ambient • Operating Temperature: -55°C ~ 125°C • ***Mates with: CLE Series***

FTMH Series:

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Current Rating: 1.5A @ 80°C ambient • Operating Temperature: -55°C ~ 125°C • ***Mates with: CLM, MLE Series***

FTS Series:

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Current Rating: 1.75A@ 80°C ambient • Operating Temperature: -55°C ~ 125°C • Plating: 10µ" (.25µm) Gold on post, Tin on Tail • ***Mates with: CLP, FLE Series***

FTSH Series:

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Plating: 10µ" (.25µm) Gold on post, Matte Tin on Tail • Current Rating: 1.75A@ 80°C ambient • Operating Temperature: -55°C ~ 125°C • ***Mates with: CLP, FLE Series***

TMM Series:

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Current Rating: 3A @ 80°C ambient when mated with SQT Series, 2.4A @ 80°C ambient when mated with CLT Series • Operating Temperature Range: -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • ***Mates with: SQT, SQW, TLE, SMM, MMS, CLT Series***

Fig. 1

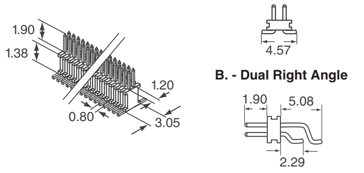
A. - Dual Vertical

B. - Dual Right Angle

Fig. 2

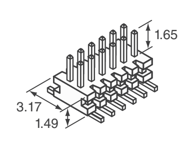

Fig. 3

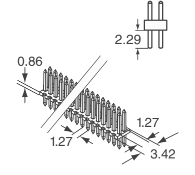

Fig. 4

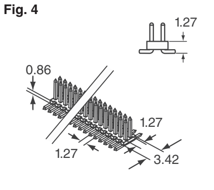

Fig. 5

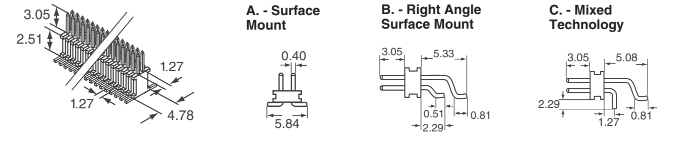
A. - Surface Mount

B. - Right Angle Surface Mount

C. - Mixed Technology

HOW TO ORDER: 4 EASY STEPS

How do I order a SAM1144 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

S□□□□□□□-□□-ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	SAM1144-16-ND
Step 2.	3.64
Step 3.	16 x .28 = 4.48
Step 4.	Your Cost = $8.12

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

Fig. 6

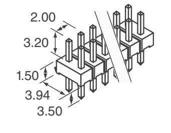

Fig. 7

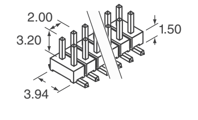

Fig. 8

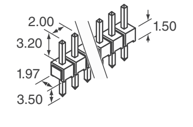

Fig. 9

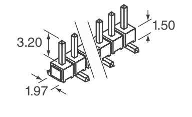

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	10	100
0.80mm					
FTE Series, Dual Row					
1A	180	SAM1144-90-ND	26.94	23.35	19.76
1B	180	SAM1143-90-ND	35.04	30.37	25.70
1.00mm					
FTMH Series, Dual Row					
2	150	SAM1131-75-ND	18.39	15.94	13.49
1.27mm					
FTS Series, Dual Row					
3	100	SAM1158-50-ND	10.02	8.69	7.35
	100	SAM1156-50-ND	10.02	8.69	7.35
4	100	SAM1159-50-ND	11.04	9.57	8.10
	100	SAM1157-50-ND	11.04	9.57	8.10

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
0.80mm		
FTE Series, Dual Row		
SAM1144-XX-ND	3.64	.28
SAM1143-XX-ND	5.10	.36
1.00mm		
FTMH Series, Dual Row		
SAM1131-XX-ND	2.47	.23
1.27mm		
FTS Series, Dual Row		
SAM1158-XX-ND	1.80	.18
SAM1156-XX-ND	1.80	.18
SAM1159-XX-ND	1.90	.20
SAM1157-XX-ND	1.90	.20

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	10	100
FTSH Series, Dual Row					
5A	100	SAM1161-50-ND	11.04	9.57	8.10
5B	100	SAM1160-50-ND	13.02	11.29	9.55
5C	100	SAM1162-50-ND	13.02	11.29	9.55
2.00mm					
TMM Series, Dual Row					
6	100	SAM1173-50-ND	10.11	8.77	7.42
	100	SAM1175-50-ND	13.08	11.34	9.60
	100	SAM1177-50-ND	6.18	5.36	4.54
7	100	SAM1167-50-ND	12.15	10.53	8.91
	100	SAM1169-50-ND	15.69	13.60	11.51
	100	SAM1171-50-ND	7.41	6.43	5.44
TMM Series, Single Row					
8	50	SAM1174-50-ND	5.94	5.15	4.36
	50	SAM1176-50-ND	7.68	6.66	5.64
	50	SAM1178-50-ND	3.63	3.15	2.67
9	50	SAM1168-50-ND	7.11	6.17	5.22
	50	SAM1172-50-ND	4.35	3.77	3.19

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
FTSH Series, Dual Row		
SAM1161-XX-ND	1.90	.20
SAM1160-XX-ND	2.04	.24
SAM1162-XX-ND	2.04	.24
2.00mm		
TMM Series, Dual Row		
SAM1173-XX-ND	1.41	.19
SAM1175-XX-ND	1.61	.25
SAM1177-XX-ND	.67	.12
SAM1167-XX-ND	1.61	.23
SAM1169-XX-ND	1.93	.30
SAM1171-XX-ND	.99	.14
TMM Series, Single Row		
SAM1174-XX-ND	.91	.11
SAM1176-XX-ND	.79	.15
SAM1178-XX-ND	.42	.07
SAM1168-XX-ND	1.17	.13
SAM1172-XX-ND	.69	.08

samtec 2.54mm Sockets

RoHS COMPLIANT

SL and SDL Series:
Specifications: • Insulator Material: Black Glass Filled Polyester • Contact/ Shell Material: Beryllium Copper/ Brass • Operating Temperature Range: -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Current Rating: 1A • Contact Resistance: 10mΩ max. ***• Mates with: TS, TD, BBS, BBL Series***

SS Series:
Specifications: • Insulator Material: Black Glass Filled Polyester • Contact/Shell Material: Beryllium Copper/ Brass • Current Rating: 1A • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 10mΩ max. ***• Mates with: TS, TD, BBS, BBL Series***

SSA Series:
Specifications: • Insulator Material: Black PET Polyester • Contact Material: Phosphor Bronze • Flammability Rating: UL94V-0 Insulation Resistance: 5000MΩ min. • Operating Temperature Range: -55°C ~ 125°C with Gold -55°C ~ 105°C with Tin • Current Rating: 1A ***• Mates with: TS, BBS, BBL Series***

SSM Series:
Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: Gold Palladium Nickel or Tin over 50µ" (1.27µm) Nickel • Current Rating: 4A @ 80°C ambient (-DH/-SH mated with TSW-D) • Voltage Rating: 475 VAC (-SV/-DV mated with TSW) • Operating Temperature Range: -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • Contact Resistance: 10mΩ maximum ***• Mates with: TSW Series***

SLW Series:
Specifications: • Insulator Material: Black Glass Filled Polyester • Contact Material: Phosphor Bronze • Current Rating: 3A • Operating Temperature Range: -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Contact Resistance: 10mΩ max. ***• Mates with: TLW, TSW Series***

SSQ and SSW Series:
Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Operating Temperature Range: -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Contact Resistance: 10mΩ max. ***• Mates with: TSW Series***

BCS Series:
Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Phosphor Bronze • Plating: Gold or Tin over 50µ" (1.27µm) Nickel • Operating Temperature Range: -55°C ~ 125°C • Contact Resistance: 10mΩ max. • Plating Option: 10µ" (.25µm) Gold on contact, Matte Tin on tail ***• Mates with: TSW Series***

CES Series:
Specifications: • Insulator Material: Black Glass Filled Polyester • Contact Material: Phosphor Bronze • Plating: Gold or Tin over 50µ" (1.27µm) Nickel • Current Rating: 1A • Operating Temperature Range: -55°C ~ 125°C with Gold; -55°C ~ 105°C with Tin • Contact Resistance: 10mΩ maximum ***• Mates with: TLW, TSW, Series***

HOW TO ORDER:
4 EASY STEPS

How do I order a SAM1102 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

S ☐☐☐☐☐☐☐ - ☐☐ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	SAM1102-16-ND
Step 2.	.89
Step 3.	16 x .18 = 2.88
Step 4.	Your Cost = $3.77

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each		
				1	10	100
SL Series, Single Row						
1	32	5.84	SAM1102-32-ND	6.10	5.46	4.50
	32	6.10	SAM1103-32-ND	6.41	5.74	4.73
	32	4.83	SAM1104-32-ND	7.55	6.76	5.57
	32	5.84	SAM1105-32-ND	4.79	4.29	3.53
	32	6.10	SAM1106-32-ND	5.04	4.52	3.72
	32	4.83	SAM1107-32-ND	5.93	5.31	4.37
	32	5.84	SAM1108-32-ND	2.74	2.46	2.02
	32	6.10	SAM1109-32-ND	2.91	2.61	2.15
	32	4.83	SAM1110-32-ND	3.42	3.06	2.52
SDL Series, Dual Row						
2	72	5.84	SAM1133-36-ND	13.71	12.27	10.11
	72	6.10	SAM1134-36-ND	14.39	12.88	10.61
	72	4.83	SAM1135-36-ND	16.96	15.18	12.50
	72	5.84	SAM1136-36-ND	10.77	9.64	7.94
	72	6.10	SAM1137-36-ND	11.34	10.15	8.36
	72	4.83	SAM1138-36-ND	13.34	11.94	9.83
	72	5.84	SAM1139-36-ND	6.18	5.54	4.56
	72	6.10	SAM1140-36-ND	6.50	5.82	4.79
	72	4.83	SAM1141-36-ND	7.64	6.84	5.63
SS Series, Single Row						
3	32	—	SAM1115-32-ND	4.90	4.39	3.62
	32	—	SAM1117-32-ND	3.56	3.19	2.63
	32	—	SAM1119-32-ND	2.05	1.84	1.51
4	32	—	SAM1118-32-ND	3.56	3.19	2.63
	32	—	SAM1120-32-ND	2.05	1.84	1.51
SSA Series, Single Row						
5	32	—	SAM1124-32-ND	6.27	5.61	4.62
	32	—	SAM1126-32-ND	3.65	3.27	2.69
6	32	3.84	SAM1121-32-ND	3.76	3.37	2.78
	32	3.84	SAM1122-32-ND	2.32	2.08	1.71
SSM Series, Dual Row						
7	100	—	SAM1145-50-ND	18.07	16.17	13.32
	100	—	SAM1149-50-ND	25.51	22.83	18.80
8	100	—	SAM1146-50-ND	14.51	12.98	10.69
	100	—	SAM1150-50-ND	20.49	18.34	15.10
SSM Series, Single Row						
9	50	—	SAM1147-50-ND	9.80	8.78	7.23
	50	—	SAM1151-50-ND	13.34	11.94	9.83
10	50	—	SAM1148-50-ND	7.89	7.07	5.82
	50	—	SAM1152-50-ND	10.72	9.59	7.90

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
SL Series, Single Row		
SAM1102-XX-ND	.89	.18
SAM1103-XX-ND	.90	.19
SAM1104-XX-ND	1.18	.22
SAM1105-XX-ND	.74	.14
SAM1106-XX-ND	.69	.15
SAM1107-XX-ND	.71	.18
SAM1108-XX-ND	.42	.08
SAM1109-XX-ND	.29	.09
SAM1110-XX-ND	.53	.10
SDL Series, Dual Row		
SAM1133-XX-ND	1.93	.36
SAM1134-XX-ND	2.30	.37
SAM1135-XX-ND	2.58	.44
SAM1136-XX-ND	1.62	.28
SAM1137-XX-ND	1.87	.29
SAM1138-XX-ND	1.89	.35
SAM1139-XX-ND	.95	.16
SAM1140-XX-ND	.94	.17
SAM1141-XX-ND	1.10	.20
SS Series, Single Row		
SAM1115-XX-ND	.54	.15
SAM1117-XX-ND	.36	.11
SAM1119-XX-ND	.31	.06
SAM1118-XX-ND	.36	.11
SAM1120-XX-ND	.31	.06
SSA Series, Single Row		
SAM1124-XX-ND	.76	.19
SAM1126-XX-ND	.46	.11
SAM1121-XX-ND	.58	.11
SAM1122-XX-ND	.29	.07
SSM Series, Dual Row		
SAM1145-XX-ND	2.49	.34
SAM1149-XX-ND	3.52	.48
SAM1146-XX-ND	2.15	.27
SAM1150-XX-ND	3.10	.38
SSM Series, Single Row		
SAM1147-XX-ND	3.53	.14
SAM1151-XX-ND	4.83	.19
SAM1148-XX-ND	2.97	.11
SAM1152-XX-ND	3.52	.16

◊ Low Insertion Force

Fig. 1

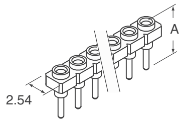

Fig. 2

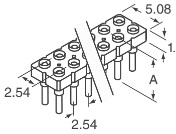

Fig. 3

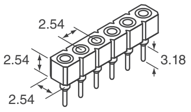

Fig. 4

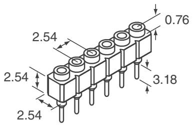

Fig. 5

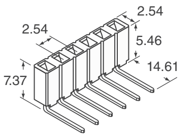

Fig. 6

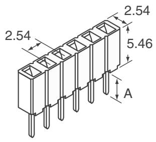

Fig. 7

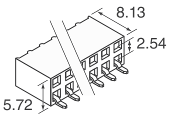

Fig. 8

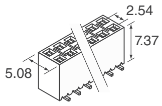

(Continued)

2.54mm Sockets *(Cont.)*

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
SLW Series, Dual Row							***SLW Series, Dual Row***		
11	100	—	SAM1088-50-ND	10.69	9.57	7.88	SAM1088-XX-ND	1.53	.20
	100	—	SAM1090-50-ND	10.86	9.72	8.01	SAM1090-XX-ND	1.71	.20
	100	—	SAM1092-50-ND	7.27	6.51	5.36	SAM1092-XX-ND	.85	.14
SLW Series, Single Row							***SLW Series, Single Row***		
12	50	—	SAM1089-50-ND	4.96	4.44	3.66	SAM1089-XX-ND	1.83	.07
	50	—	SAM1091-50-ND	4.96	4.44	3.66	SAM1091-XX-ND	1.83	.07
	50	—	SAM1093-50-ND	3.65	3.27	2.69	SAM1093-XX-ND	1.42	.05
SSQ Series, Dual Row							***SSQ Series, Dual Row***		
13	100	2.64	SAM1179-50-ND	10.46	9.36	7.71	SAM1179-XX-ND	1.29	.20
	100	4.93	SAM1185-50-ND	10.80	9.67	7.96	SAM1185-XX-ND	1.65	.20
	100	10.00	SAM1196-50-ND	11.51	10.31	8.49	SAM1196-XX-ND	1.42	.22
	100	2.64	SAM1181-50-ND	10.72	9.59	7.90	SAM1181-XX-ND	1.56	.20
	100	4.93	SAM1189-50-ND	11.06	9.90	8.15	SAM1189-XX-ND	1.43	.21
	100	2.64	SAM1183-50-ND	7.13	6.38	5.25	SAM1183-XX-ND	1.19	.13
	100	4.93	SAM1193-50-ND	7.35	6.58	5.42	SAM1193-XX-ND	.93	.14
	100	10.00	SAM1204-50-ND	7.81	6.99	5.76	SAM1204-XX-ND	.93	.15
14	100	2.54	SAM1186-50-ND	11.88	10.64	8.76	SAM1186-XX-ND	1.81	.22
	100	7.62	SAM1197-50-ND	12.65	11.33	9.33	SAM1197-XX-ND	1.65	.24
	100	2.54	SAM1190-50-ND	12.17	10.89	8.97	SAM1190-XX-ND	1.63	.23
	100	7.62	SAM1201-50-ND	12.94	11.58	9.54	SAM1201-XX-ND	1.96	.24
	100	2.54	SAM1224-50-ND	8.07	7.22	5.95	SAM1224-XX-ND	1.20	.15
	100	7.62	SAM1205-50-ND	8.61	7.71	6.35	SAM1205-XX-ND	1.29	.16
SSQ Series, Single Row							***SSQ Series, Single Row***		
15	50	2.64	SAM1180-50-ND	5.70	5.10	4.20	SAM1180-XX-ND	2.12	.08
	50	4.93	SAM1187-50-ND	5.87	5.26	4.33	SAM1187-XX-ND	2.30	.08
	50	10.00	SAM1198-50-ND	6.27	5.61	4.62	SAM1198-XX-ND	2.24	.09
	50	2.64	SAM1182-50-ND	5.73	5.13	4.23	SAM1182-XX-ND	2.15	.08
	50	4.93	SAM1191-50-ND	5.90	5.28	4.35	SAM1191-XX-ND	1.84	.09
	50	10.00	SAM1202-50-ND	6.27	5.61	4.62	SAM1202-XX-ND	2.24	.09
	50	2.64	SAM1184-50-ND	4.19	3.75	3.09	SAM1184-XX-ND	1.50	.06
	50	4.93	SAM1194-50-ND	4.30	3.86	3.18	SAM1194-XX-ND	1.62	.06
	50	10.00	SAM1206-50-ND	4.59	4.11	3.39	SAM1206-XX-ND	1.44	.07
16	50	2.54	SAM1188-50-ND	6.47	5.79	4.77	SAM1188-XX-ND	2.45	.09
	50	7.62	SAM1199-50-ND	6.87	6.15	5.07	SAM1199-XX-ND	2.38	.10
	50	2.54	SAM1192-50-ND	6.50	5.82	4.79	SAM1192-XX-ND	2.48	.09
	50	7.62	SAM1203-50-ND	6.90	6.18	5.09	SAM1203-XX-ND	2.41	.10
	50	2.54	SAM1195-50-ND	4.73	4.24	3.49	SAM1195-XX-ND	1.58	.07
	50	7.62	SAM1207-50-ND	5.04	4.52	3.72	SAM1207-XX-ND	1.91	.07
SSW Series, Dual Row							***SSW Series, Dual Row***		
13	100	2.64	SAM1208-50-ND	9.49	8.50	7.00	SAM1208-XX-ND	1.24	.18
	100	4.93	SAM1214-50-ND	9.80	8.78	7.23	SAM1214-XX-ND	1.57	.18
	100	2.64	SAM1210-50-ND	9.72	8.70	7.17	SAM1210-XX-ND	1.48	.18
	100	4.93	SAM1217-50-ND	10.03	8.98	7.40	SAM1217-XX-ND	1.32	.19
	100	4.93	SAM1223-50-ND◊	10.69	9.57	7.88	SAM1223-XX-ND◊	1.53	.20
	100	2.64	SAM1212-50-ND	6.44	5.77	4.75	SAM1212-XX-ND	.95	.12
	100	4.93	SAM1221-50-ND	6.67	5.97	4.92	SAM1221-XX-ND	.70	.13
14	100	2.54	SAM1215-50-ND	10.77	9.64	7.94	SAM1215-XX-ND	1.62	.20
	100	2.54	SAM1218-50-ND	10.89	9.75	8.03	SAM1218-XX-ND	1.74	.20
SSW Series, Single Row							***SSW Series, Single Row***		
15	50	2.64	SAM1209-50-ND	5.16	4.62	3.81	SAM1209-XX-ND	2.04	.07
	50	4.93	SAM1216-50-ND	5.33	4.77	3.93	SAM1216-XX-ND	1.73	.08
	50	2.64	SAM1211-50-ND	5.19	4.65	3.83	SAM1211-XX-ND	1.58	.08
	50	4.93	SAM1219-50-ND	5.36	4.80	3.95	SAM1219-XX-ND	1.76	.08
	50	2.64	SAM1213-50-ND	3.79	3.40	2.80	SAM1213-XX-ND	1.57	.05
	50	4.93	SAM1222-50-ND	3.90	3.50	2.88	SAM1222-XX-ND	1.19	.06
16	50	2.54	SAM1225-50-ND	5.87	5.26	4.33	SAM1225-XX-ND	2.30	.08
BCS Series, Dual Row							***BCS Series, Dual Row***		
17	100	—	SAM1006-50-ND	11.74	10.51	8.66	SAM1006-XX-ND	1.66	.22
18	100	—	SAM1007-50-ND	10.46	9.36	7.71	SAM1007-XX-ND	1.29	.20
19	100	—	SAM1008-50-ND	10.46	9.36	7.71	SAM1008-XX-ND	1.29	.20
BCS Series, Single Row							***BCS Series, Single Row***		
20	50	—	SAM1009-50-ND	6.50	5.82	4.79	SAM1009-XX-ND	2.48	.09
21	50	—	SAM1010-50-ND	5.79	5.18	4.27	SAM1010-XX-ND	2.22	.08
22	50	—	SAM1011-50-ND	5.79	5.18	4.27	SAM1011-XX-ND	2.22	.08
CES Series, Dual Row							***CES Series, Dual Row***		
23	100	—	SAM1084-50-ND	11.97	10.71	8.82	SAM1084-XX-ND	1.91	.22
	100	—	SAM1086-50-ND	6.75	6.05	4.98	SAM1086-XX-ND	.79	.13
CES Series, Single Row							***CES Series, Single Row***		
24	50	—	SAM1085-50-ND	6.38	5.72	4.71	SAM1085-XX-ND	2.35	.09
	50	—	SAM1087-50-ND	3.96	3.55	2.92	SAM1087-XX-ND	1.26	.06

◊ Low Insertion Force

Fig. 9

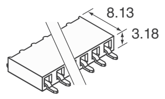

Fig. 10

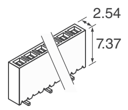

Fig. 11

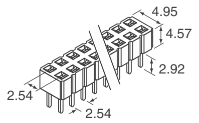

Fig. 12

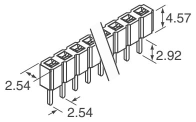

Fig. 13

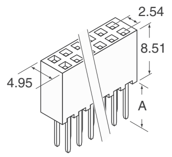

Fig. 14

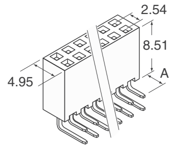

Fig. 15

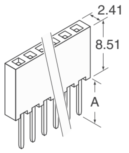

Fig. 16

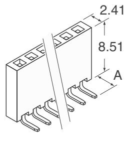

Fig. 17

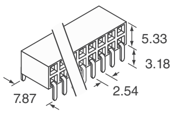

Fig. 18

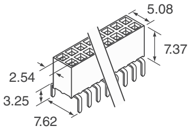

Fig. 19

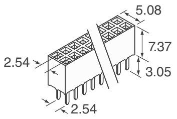

Fig. 20

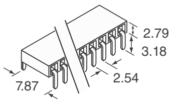

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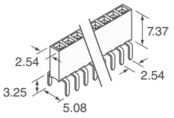

Fig. 22

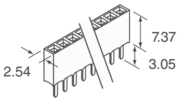

Fig. 23

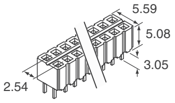

Fig. 24

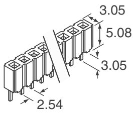

samtec 2.54mm Male Headers

TS and TD Series: Specifications: • Insulator Material: Black Glass Filled Polyester • Terminal Material: Brass (Gold plated are Phosphor Bronze) • Operating Temperature Range: -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Current Rating: 1A • ***Mates with: SS, SD, SL, SDL Series***

BBS and BBL Series: Specifications: • Insulator Material: Black Glass Filled Polyester • Terminal Material: Brass or Phosphor Bronze • Operating Temperature Range: -55°C ~ 125°C • Current Rating: 1A • ***Mates with: SS, SD, SL, SDL, ESS Series***

TLW Series: Specifications: • Insulator Material: Black Liquid Crystal Polymer • Terminal Material: Phosphor Bronze • Current Rating: 3A • Operating Temperature Range: -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • ***Mates with: SLW, CES Series***

TSW Series: Specifications: • Insulator Material: Black Glass Filled Polyester • Terminal Material: Phosphor Bronze • Plating: Gold or Tin over 50µ" (1.27µm) Nickel • Operating Temperature Range: -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • Voltage Rating: 550 VAC mated with SSW; 500 VAC mated with BCS; 450 VAC (-RA mated with BCS) • ***Mates with: SSW, SSQ, BCS, CES, SLW Series***

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100
TS Series, Single Row							
1	32	—	—	SAM1111-32-ND	5.33	4.77	3.93
	32	—	—	SAM1112-32-ND	3.22	2.89	2.38
TD Series, Dual Row							
2	64	—	—	SAM1113-32-ND	11.83	10.59	8.72
	64	—	—	SAM1114-32-ND	7.13	6.38	5.25
BBS Series, Single Row							
3	32	—	—	SAM1004-32-ND	8.55	7.65	6.30
BBL Series, Single Row							
4	32	—	—	SAM1000-32-ND	8.52	7.63	6.28
	32	—	—	SAM1002-32-ND	4.33	3.88	3.20
5	32	—	—	SAM1001-32-ND	8.89	7.96	6.56
	32	—	—	SAM1003-32-ND	4.45	3.98	3.28
TLW Series, Dual Row							
6	72	—	—	SAM1096-36-ND	8.84	7.91	6.51
	72	—	—	SAM1094-36-ND	8.84	7.91	6.51
	72	—	—	SAM1097-36-ND	6.01	5.39	4.44
	72	—	—	SAM1095-36-ND	6.01	5.39	4.44
TLW Series, Single Row							
7	40	—	—	SAM1100-40-ND	5.76	5.16	4.25
	40	—	—	SAM1098-40-ND	5.76	5.16	4.25
	40	—	—	SAM1101-36-ND	3.86	3.46	2.85
	40	—	—	SAM1099-36-ND	3.86	3.46	2.85
TSW Series, Dual Row							
8	100	8.51	2.67	SAM1012-50-ND	6.70	6.00	4.94
	100	7.62	2.67	SAM1020-50-ND	6.70	6.00	4.94
	100	10.92	5.84	SAM1028-50-ND	6.01	5.39	4.44
	100	13.46	5.84	SAM1036-50-ND	6.16	5.51	4.54
	100	13.46	8.13	SAM1052-50-ND	6.16	5.51	4.54
	100	21.08	15.74	SAM1060-50-ND	7.35	6.58	5.42
	100	11.30	5.84	SAM1068-50-ND	6.33	5.67	4.67
	100	11.58	5.84	SAM1076-50-ND	8.69	7.78	6.41
	100	7.62	2.67	SAM1022-50-ND	5.99	5.36	4.41
	100	10.92	5.84	SAM1030-50-ND	5.39	4.82	3.97
	100	13.46	5.84	SAM1040-50-ND	5.53	4.95	4.08
	100	13.46	8.13	SAM1054-50-ND	5.53	4.95	4.08
	100	21.08	15.74	SAM1062-50-ND	6.61	5.92	4.88
	100	11.30	5.84	SAM1070-50-ND	5.67	5.08	4.18
	100	11.58	5.84	SAM1078-50-ND	7.78	6.97	5.74
	100	8.51	2.67	SAM1016-50-ND	8.64	7.73	6.37
	100	7.62	2.67	SAM1024-50-ND	8.64	7.73	6.37
	100	10.92	5.84	SAM1032-50-ND	7.78	6.97	5.74
	100	13.46	5.84	SAM1044-50-ND	7.98	7.14	5.88
	100	13.46	8.13	SAM1056-50-ND	7.98	7.14	5.88
	100	21.08	15.74	SAM1064-50-ND	9.52	8.52	7.02
	100	11.30	5.84	SAM1072-50-ND	8.15	7.30	6.01
	100	11.58	5.84	SAM1080-50-ND	11.23	10.05	8.28
	100	8.51	2.67	SAM1018-50-ND	4.56	4.08	3.36
	100	7.62	2.67	SAM1026-50-ND	4.56	4.08	3.36
	100	10.92	5.84	SAM1034-50-ND	4.10	3.68	3.03
	100	13.46	5.84	SAM1048-50-ND	4.19	3.75	3.09
	100	13.46	8.13	SAM1058-50-ND	4.19	3.75	3.09
	100	21.08	15.74	SAM1066-50-ND	5.02	4.49	3.70
	100	11.30	5.84	SAM1074-50-ND	4.30	3.86	3.18
	100	11.58	5.84	SAM1082-50-ND	5.90	5.28	4.35
9	100	2.29	5.84	SAM1037-50-ND	6.78	6.07	5.00
	100	2.29	5.84	SAM1041-50-ND	6.07	5.44	4.48
	100	2.29	5.84	SAM1045-50-ND	8.78	7.86	6.47
	100	2.29	5.84	SAM1049-50-ND	4.62	4.14	3.41
TSW Series, Single Row							
10	50	8.51	2.67	SAM1013-50-ND	3.11	2.78	2.29
	50	10.92	5.84	SAM1029-50-ND	2.78	2.49	2.05
	50	13.46	5.84	SAM1038-50-ND	2.85	2.55	2.10
	50	13.46	8.13	SAM1053-50-ND	2.85	2.55	2.10
	50	21.08	15.74	SAM1061-50-ND	3.42	3.06	2.52
	50	11.30	5.84	SAM1069-50-ND	2.94	2.63	2.17
	50	11.58	5.84	SAM1077-50-ND	4.05	3.63	2.99
	50	7.62	2.67	SAM1023-50-ND	2.82	2.53	2.08
	50	10.92	5.84	SAM1031-50-ND	2.54	2.28	1.88
	50	13.46	5.84	SAM1042-50-ND	2.60	2.33	1.92
	50	13.46	8.13	SAM1055-50-ND	2.60	2.33	1.92
	50	11.30	5.84	SAM1071-50-ND	2.67	2.39	1.97
	50	11.58	5.84	SAM1079-50-ND	3.68	3.29	2.71
	50	8.51	2.67	SAM1017-50-ND	3.93	3.52	2.90
	50	7.62	2.67	SAM1025-50-ND	3.93	3.52	2.90
	50	10.92	5.84	SAM1033-50-ND	3.53	3.17	2.61
	50	13.46	5.84	SAM1046-50-ND	3.62	3.24	2.67
	50	13.46	8.13	SAM1057-50-ND	3.62	3.24	2.67
	50	21.08	15.74	SAM1065-50-ND	4.33	3.88	3.20
	50	11.30	5.84	SAM1073-50-ND	3.71	3.32	2.73
	50	11.58	5.84	SAM1081-50-ND	5.10	4.57	3.76
	50	8.51	2.67	SAM1019-50-ND	2.27	2.03	1.67
	50	7.62	2.67	SAM1027-50-ND	2.27	2.03	1.67
	50	10.92	5.84	SAM1035-50-ND	2.04	1.83	1.51
	50	13.46	5.84	SAM1050-50-ND	2.09	1.88	1.55
	50	13.46	8.13	SAM1059-50-ND	2.09	1.88	1.55
	50	21.08	15.74	SAM1067-50-ND	2.50	2.24	1.85
	50	11.30	5.84	SAM1075-50-ND	2.14	1.92	1.58
11	50	2.29	5.84	SAM1039-50-ND	3.14	2.81	2.31
	50	2.29	5.84	SAM1043-50-ND	2.88	2.58	2.13
	50	2.29	5.84	SAM1047-50-ND	3.99	3.57	2.94
	50	2.29	5.84	SAM1051-50-ND	2.30	2.06	1.70

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
TS Series, Single Row		
SAM1111-XX-ND	.69	.16
SAM1112-XX-ND	.31	.10
TD Series, Dual Row		
SAM1113-XX-ND	1.69	.35
SAM1114-XX-ND	1.05	.21
BBS Series, Single Row		
SAM1004-XX-ND	1.31	.25
BBL Series, Single Row		
SAM1000-XX-ND	1.28	.25
SAM1002-XX-ND	.56	.13
SAM1001-XX-ND	1.36	.26
SAM1003-XX-ND	.69	.13
TLW Series, Dual Row		
SAM1096-XX-ND	1.32	.23
SAM1094-XX-ND	1.32	.23
SAM1097-XX-ND	1.12	.15
SAM1095-XX-ND	1.12	.15
TLW Series, Single Row		
SAM1100-XX-ND	.65	.14
SAM1098-XX-ND	.65	.14
SAM1101-XX-ND	.62	.09
SAM1099-XX-ND	.62	.09
TSW Series, Dual Row		
SAM1012-XX-ND	.73	.13
SAM1020-XX-ND	.73	.13
SAM1028-XX-ND	.98	.11
SAM1036-XX-ND	.65	.12
SAM1052-XX-ND	.65	.12
SAM1060-XX-ND	.93	.14
SAM1068-XX-ND	.83	.12
SAM1076-XX-ND	1.37	.16
SAM1022-XX-ND	.96	.11
SAM1030-XX-ND	.81	.10
SAM1040-XX-ND	.96	.10
SAM1054-XX-ND	.96	.10
SAM1062-XX-ND	1.13	.12
SAM1070-XX-ND	.62	.11
SAM1078-XX-ND	.90	.15
SAM1016-XX-ND	1.32	.16
SAM1024-XX-ND	1.32	.16
SAM1032-XX-ND	.90	.15
SAM1044-XX-ND	1.11	.15
SAM1056-XX-ND	1.11	.15
SAM1064-XX-ND	1.27	.18
SAM1072-XX-ND	1.29	.15
SAM1080-XX-ND	1.61	.21
SAM1018-XX-ND	.42	.09
SAM1026-XX-ND	.42	.09
SAM1034-XX-ND	.43	.08
SAM1048-XX-ND	.52	.08
SAM1058-XX-ND	.52	.08
SAM1066-XX-ND	.91	.09
SAM1074-XX-ND	.64	.08
SAM1082-XX-ND	.86	.11
SAM1037-XX-ND	.82	.13
SAM1041-XX-ND	1.04	.11
SAM1045-XX-ND	1.47	.16
SAM1049-XX-ND	.49	.09
TSW Series, Single Row		
SAM1013-XX-ND	.85	.05
SAM1029-XX-ND	.99	.04
SAM1038-XX-ND	1.06	.04
SAM1053-XX-ND	1.06	.04
SAM1061-XX-ND	1.18	.05
SAM1069-XX-ND	1.16	.04
SAM1077-XX-ND	1.35	.06
SAM1023-XX-ND	1.03	.04
SAM1031-XX-ND	.73	.04
SAM1042-XX-ND	.80	.04
SAM1055-XX-ND	.80	.04
SAM1071-XX-ND	.87	.04
SAM1079-XX-ND	1.45	.05
SAM1017-XX-ND	1.23	.06
SAM1025-XX-ND	1.23	.06
SAM1033-XX-ND	1.29	.05
SAM1046-XX-ND	1.39	.05
SAM1057-XX-ND	1.39	.05
SAM1065-XX-ND	1.65	.06
SAM1073-XX-ND	1.48	.05
SAM1081-XX-ND	1.98	.07
SAM1019-XX-ND	.94	.03
SAM1027-XX-ND	.94	.03
SAM1035-XX-ND	.69	.03
SAM1050-XX-ND	.75	.03
SAM1059-XX-ND	.75	.03
SAM1067-XX-ND	.69	.04
SAM1075-XX-ND	.80	.03
SAM1039-XX-ND	.88	.05
SAM1043-XX-ND	1.09	.04
SAM1047-XX-ND	1.29	.06
SAM1051-XX-ND	.97	.03

Fig. 1

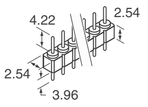

Fig. 2

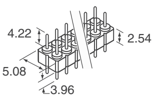

Fig. 3

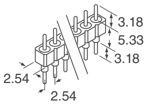

Fig. 4

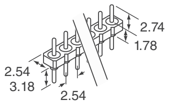

Fig. 5

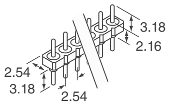

Fig. 6

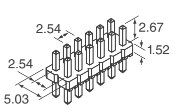

Fig. 7

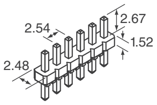

Fig. 8

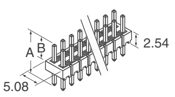

Fig. 9

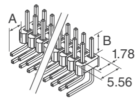

Fig. 10

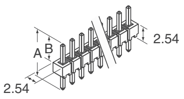

Fig. 11

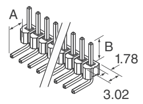

HOW TO ORDER:
4 EASY STEPS

How do I order a SAM1111 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

S□□□□□□□-□□-ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	SAM1111-16-ND
Step 2.	.69
Step 3.	16 x .16 = 2.56
Step 4.	Your Cost = $3.25

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

Tyco Electronics

Authorized Distributor

AMP 1.00mm HPI Connectors

Features: • Standard terminal design compatible with general market discrete wire to board products • Small pitch discrete wire interconnect • 22 ~ 32 AWG **Applications:** • Business equipment • Industrial machines • Wire-to-board applications • Plasma display panels • LCD monitor • LED equipment • Small electronics equipment • Anywhere where signals or power are routed

Fig. 1

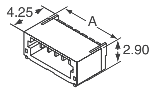

Fig. 2

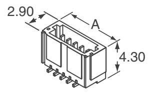

Fig. 3

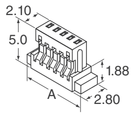

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Pricing 1	25	50	Tape and Reel† Qty.	Tape and Reel† Pricing	AMP Part No.
Right Angle SMT, Header									
1	2	4.30	A99955CT-ND	.69	15.63	27.79	1,500	393.72/M	1734709-2
	3	5.30	A99956CT-ND	.95	21.39	38.03	1,500	538.80/M	1734709-3
	4	6.30	A99957CT-ND	1.20	27.00	48.00	1,500	680.00/M	1734709-4
	5	7.30	A99958CT-ND	1.31	29.44	52.34	1,500	741.54/M	1734709-5
	6	8.30	A99959CT-ND	1.41	31.81	56.54	1,500	801.04/M	1734709-6
	7	9.30	A99960CT-ND	1.64	36.90	65.60	1,500	929.32/M	1734709-7
	8	10.30	A99961CT-ND	1.46	32.93	58.55	1,500	829.44/M	1734709-8
	9	11.30	A99962CT-ND	1.48	33.33	59.26	1,500	839.46/M	1734709-9
	10	12.30	A99963CT-ND	1.95	43.90	78.05	1,500	1105.75/M	1-1734709-0
	12	14.30	A99964CT-ND	1.55	34.91	62.06	1,500	879.24/M	1-1734709-2
	14	16.30	A99965CT-ND	1.96	44.02	78.25	1,500	1108.58/M	1-1734709-4
	15	17.30	A99966CT-ND	2.06	46.26	82.25	1,500	1165.18/M	1-1734709-5
Vertical SMT, Header									
2	2	4.3	A99943CT-ND	.98	22.03	39.17	1,000	554.88	1734595-2
	3	5.3	A99944CT-ND	1.54	34.71	61.71	1,000	874.28	1734595-3
	4	6.3	A99945CT-ND	1.07	23.98	42.62	1,000	603.84	1734595-4
	5	7.3	A99946CT-ND	1.25	28.19	50.11	1,000	709.92	1734595-5
	6	8.3	A99947CT-ND	2.02	45.39	80.70	1,000	1143.23	1734595-6
	7	9.3	A99948CT-ND	1.53	34.40	61.15	1,000	866.32	1734595-7
	8	10.3	A99949CT-ND	2.38	53.57	95.24	1,000	1349.17	1734595-8
	9	11.3	A99950CT-ND	2.51	56.56	100.55	1,000	1424.46	1734595-9
	10	12.3	A99951CT-ND	2.63	59.12	105.09	1,000	1488.84	1-1734595-0
	12	14.3	A99952CT-ND	1.81	40.72	72.38	1,000	1025.44	1-1734595-2
	14	16.3	A99953CT-ND	3.03	68.16	121.17	1,000	1716.61	1-1734595-4
	15	17.3	A99954CT-ND	3.03	68.27	121.37	1,000	1719.47	1-1734595-5
Receptacle, Housing									
3	2	5.00	A99931-ND	.13	2.96	4.94	—	—	1470364-2
	3	6.00	A99932-ND	.24	5.44	9.07	—	—	1470364-3
	4	7.00	A99933-ND	.35	7.87	13.11	—	—	1470364-4
	5	8.00	A99934-ND	.45	10.18	16.97	—	—	1470364-5
	6	9.00	A99935-ND	.53	12.07	20.11	—	—	1470364-6
	7	10.00	A99936-ND	.63	14.22	23.70	—	—	1470364-7
	8	11.00	A99937-ND	.72	16.37	27.29	—	—	1470364-8
	9	12.00	A99938-ND	.75	17.02	28.36	—	—	1470364-9
	10	13.00	A99939-ND	.80	18.00	30.00	—	—	1-1470364-0
	12	15.00	A99940-ND	.93	21.00	35.00	—	—	1-1470364-2
	14	17.00	A99941-ND	1.14	25.80	43.00	—	—	1-1470364-4
	15	18.00	A99942-ND	1.22	27.60	46.00	—	—	1-1470364-5

† For Tape and Reel part number, change CT-ND to TR-ND.

Description	Wire Range	Digi-Key Part No.	Pricing 100	500	1,000	Tape and Reel† Pricing 15,000	AMP Part No.
1mm HPI Contact							
Receptacle	28 ~ 32 AWG	A99930CT-ND	4.61	21.15	38.45	20.77/M	1734597-1

† For Tape and Reel part number, change CT-ND to TR-ND.

AMP HPI 1.25mm Connectors

Features: • High performance and high reliability • Inter-changeable with competitors • Header and COSI connectors (crimp on snap in) • Polarized • Positive latching with audible click feedback when mating • Different colors

Applications: • Business equipment • Industrial machines • Anywhere where there is a routing signal or power • Wire-to-Board applications • Plasma display panels • LCD monitors • Small electronics equipment

Fig. 1

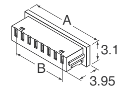

Fig. 2

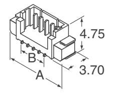

Fig. 3

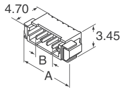

Fig. 4

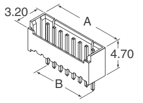

Fig. 5

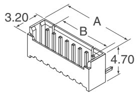

Fig.	Color	No. of Positions	Dimensions – mm A	Dimensions – mm B	Digi-Key Part No.	Pricing 1	25	100	AMP Part No.
Receptacle Housing									
1	Natural	2	4.25	1.25	A98722-ND	.06	1.45	4.10	440146-2
	Natural	3	5.50	2.50	A98723-ND	.07	1.67	4.74	440146-3
	Natural	4	6.75	3.75	A98724-ND	.07	1.69	4.80	440146-4
1	Natural	5	8.00	5.00	A98725-ND	.08	1.75	4.96	440146-5
	Natural	6	9.25	6.25	A98726-ND	.21	4.68	13.25	440146-6
	Natural	7	10.50	7.50	A98727-ND	.25	5.58	15.81	440146-7
	Natural	8	11.75	8.75	A98728-ND	.11	2.53	7.17	440146-8
	Natural	9	13.00	10.00	A98729-ND	.12	2.66	7.54	440146-9
	Natural	10	14.25	11.25	A98730-ND	.13	2.96	8.38	1-440146-0
	Natural	11	15.50	12.50	A98731-ND	.14	3.25	9.22	1-440146-1
	Natural	12	16.75	13.75	A98732-ND	.17	3.79	10.75	1-440146-2
	Natural	13	18.00	15.00	A98733-ND	.16	3.62	10.25	1-440146-3
	Natural	14	19.25	16.25	A98734-ND	.18	4.14	11.74	1-440146-4
	Natural	15	20.50	17.50	A98735-ND	.20	4.59	12.99	1-440146-5

Fig.	No. of Positions	Dim. – mm A	Dim. – mm B	Digi-Key Part No.	Cut Tape Pricing 1	25	50	Tape and Reel† Pricing 1,000	AMP Part No.
Post Header Assemblies									
Vertical, SMT									
2	2	7.79	1.25	A98736CT-ND	.85	19.06	33.88	480.03	1734260-2
	3	9.04	2.50	A98737CT-ND	.97	21.74	38.64	547.40	1734260-3
	4	10.29	3.75	A98738CT-ND	2.09	47.12	83.77	1186.75	1734260-4
	5	11.54	5.00	A98739CT-ND	2.32	52.20	92.79	1314.59	1734260-5
	6	12.79	6.25	A98740CT-ND	2.92	65.70	116.80	1654.68	1734260-6
	7	14.04	7.50	A98741CT-ND	2.96	66.71	118.60	1680.14	1734260-7
	8	15.29	8.75	A98742CT-ND	2.93	65.97	117.28	1661.51	1734260-8
	9	16.54	10.00	A98743CT-ND	2.06	46.37	82.44	1167.88	1734260-9
	10	17.79	11.25	A98744CT-ND	2.17	48.74	86.64	1227.45	1-1734260-0
	11	19.04	12.50	A98745CT-ND	3.79	85.33	151.69	2148.95	1-1734260-1
	12	20.29	13.75	A98746CT-ND	3.96	89.21	158.59	2246.65	1-1734260-2
	13	21.54	15.00	A98747CT-ND	4.77	107.42	190.98	2705.50	1-1734260-3
	14	22.79	16.25	A98748CT-ND	5.05	113.59	201.93	2860.71	1-1734260-4
	15	24.04	17.50	A98749CT-ND	5.24	117.99	209.76	2971.60	1-1734260-5
Right Angle, SMT									
3	2	7.79	1.25	A98750CT-ND	.92	20.61	36.63	518.98	1734261-2
	3	9.04	2.50	A98751CT-ND	1.73	38.91	69.17	979.97	1734261-3
	4	10.29	3.75	A98809CT-ND	2.24	50.42	89.64	1269.87	1734261-4
	5	11.54	5.00	A98752CT-ND	1.49	33.57	59.68	845.44	1734261-5
	6	12.79	6.25	A98753CT-ND	1.60	35.98	63.97	906.29	1734261-6
	7	14.04	7.50	A98754CT-ND	2.96	66.71	118.60	1680.11	1734261-7
	8	15.29	8.75	A98755CT-ND	1.91	43.06	76.55	1084.43	1734261-8
	9	16.54	10.00	A98756CT-ND	2.06	46.37	82.44	1167.87	1734261-9
	10	17.79	11.25	A98757CT-ND	3.55	79.90	142.04	2012.21	1-1734261-0
	11	19.04	12.50	A98758CT-ND	3.79	85.33	151.69	2148.95	1-1734261-1
	12	20.29	13.75	A98759CT-ND	2.42	54.42	96.74	1370.46	1-1734261-2
	13	21.54	15.00	A98760CT-ND	2.91	65.53	116.49	1650.34	1-1734261-3
	14	22.79	16.25	A98761CT-ND	3.08	69.29	123.18	1745.03	1-1734261-4
	15	24.04	17.50	A98762CT-ND	3.20	71.97	127.95	1812.68	1-1734261-5
Vertical, Through Hole									
4	2	4.25	1.25	A99914-ND	.38	8.54	15.18	—	1734598-2
	3	5.50	2.50	A99915-ND	.51	11.39	20.25	—	1734598-3
	4	6.75	3.75	A99916-ND	.67	15.06	26.77	—	1734598-4
	5	8.00	5.00	A99917-ND	.66	14.93	26.55	—	1734598-5
	6	9.25	6.25	A99918-ND	.75	16.79	29.85	—	1734598-6
	7	10.50	7.50	A99919-ND	.82	18.42	32.75	—	1734598-7
	8	11.75	8.75	A99920-ND	.89	20.04	35.63	—	1734598-8
	9	13.00	10.00	A99921-ND	1.17	26.34	46.82	—	1734598-9
	10	14.25	11.25	A99922-ND	1.27	28.69	51.00	—	1-1734598-0
	11	15.50	12.50	A99923-ND	1.38	31.13	55.35	—	1-1734598-1
	12	16.75	13.75	A99924-ND	1.47	33.05	58.76	—	1-1734598-2
	13	18.00	15.00	A99925-ND	1.52	34.13	60.68	—	1-1734598-3
	14	19.25	16.25	A99926-ND	1.56	35.20	62.58	—	1-1734598-4
	15	20.50	17.50	A99927-ND	1.73	39.03	69.39	—	1-1734598-5
Right Angle, Through Hole									
5	2	4.25	1.25	A99900-ND	.21	4.70	8.35	—	1734829-2
	3	5.50	2.50	A99901-ND	.43	9.66	17.17	—	1734829-3
	4	6.75	3.75	A99902-ND	.52	11.78	20.94	—	1734829-4
	5	8.00	5.00	A99903-ND	.59	13.27	23.58	—	1734829-5
	6	9.25	6.25	A99904-ND	.65	14.68	26.09	—	1734829-6
	7	10.50	7.50	A99905-ND	.73	16.42	29.20	—	1734829-7
	8	11.75	8.75	A99906-ND	.79	17.80	31.64	—	1734829-8
	9	13.00	10.00	A99907-ND	.99	22.21	39.49	—	1734829-9
	10	14.25	11.25	A99908-ND	1.09	24.62	43.76	—	1-1734829-0
	11	15.50	12.50	A99909-ND	1.17	26.25	46.67	—	1-1734829-1
	12	16.75	13.75	A99910-ND	1.24	27.88	49.57	—	1-1734829-2
	13	18.00	15.00	A99911-ND	1.33	29.90	53.16	—	1-1734829-3
	14	19.25	16.25	A99912-ND	1.40	31.49	55.98	—	1-1734829-4
	15	20.50	17.50	A99913-ND	1.49	33.51	59.57	—	1-1734829-5

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Tape and Reel† Pricing 20,000	AMP Part No.
Terminal, 28 ~ 32 AWG	A98721CT-ND	11.63	53.32	96.95	52.36/M	1734193-1

† For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

AMP Mini CT 1.5mm Connectors

Features: • Super-miniature wire-to-board and wire-to-wire connects • Can be used to produce a variety of harness styles by fully automatic high speed assembling machines • 1 row and 2 row types • Small-size, yet productivity-oriented • Post header construction resists scooping of contacts at mating/unmating • DIP-type post headers feature a staggered tine design and can be used on paper-base phenolic boards • IDC (Insulation Displacement Contacts) • AWG: 28-24 • Pitch: 1.5mm
Applications: • Business equipment • Industrial machines • Anywhere there is a routing signal or power • Wire-to-Board applications

Fig. 1

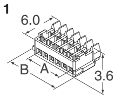

Fig. 2

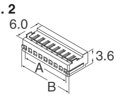

Fig. 3

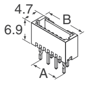

Fig. 4

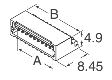

Fig. 5

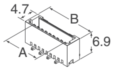

Fig. 6

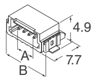

Fig. 7

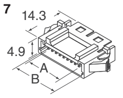

Fig. 8

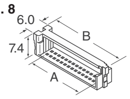

Fig. 9

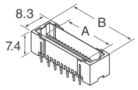

Fig. 10 ***NEW!***

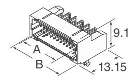

Fig. 11 ***NEW!***

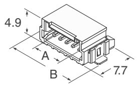

Fig.	Color	No. of Positions	Dimensions – mm		Digi-Key Part No.	Pricing			AMP Part No.
			A	B		1	25	100	
IDC Receptacle Assembly, 26 ~ 28 AWG									
1	Gray	2	1.5	4.5	A98640-ND	.17	3.78	10.70	353293-2
	Gray	3	3.0	6.0	A98641-ND	.19	4.20	11.91	353293-3
	Gray	4	4.5	7.5	A98642-ND	.21	4.65	13.18	353293-4
	Gray	5	6.0	9.0	A98643-ND	.27	6.08	17.23	353293-5
	Gray	6	7.5	10.5	A98644-ND	.28	6.42	18.20	353293-6
	Gray	7	9.0	12.0	A98645-ND	.28	6.45	18.28	353293-7
	Gray	8	10.5	13.5	A98808-ND	.34	7.72	21.87	353293-8
	Gray	9	12.0	15.0	A98646-ND	.33	7.58	21.46	353293-9
	Gray	10	13.5	16.5	A98647-ND	.46	10.52	29.81	1-353293-0
	Gray	11	15.0	18.0	A98648-ND	.39	8.79	24.92	1-353293-1
	Gray	12	16.5	19.5	A98649-ND	.36	8.21	23.26	1-353293-2
	Gray	13	18.0	21.0	A98650-ND	.40	9.00	25.51	1-353293-3
	Gray	14	19.5	22.5	A98651-ND	.41	9.31	26.37	1-353293-4
	Gray	15	21.0	24.0	A98652-ND	.43	9.79	27.74	1-353293-5
	Gray	16	22.5	24.5	A99738-ND	.48	10.82	30.66	1-353293-6
	Gray	17	24.0	26.0	A99739-ND	.51	11.50	32.57	1-353293-7
	Gray	18	25.5	27.5	A99740-ND	.53	12.02	34.04	1-353293-8
	Gray	19	27.0	29.0	A99741-ND	.55	12.53	35.51	1-353293-9
	Gray	20	28.5	30.5	A99742-ND	.60	13.64	38.64	1-353293-0

Fig.	Color	No. of Positions	Dimensions – mm		Digi-Key Part No.	Pricing			AMP Part No.
			A	B		1	25	100	
Crimp Receptacle Housing, 24 ~ 28 AWG									
2	White	2	1.5	4.5	A98653-ND	.27	6.17	17.48	353908-2
	White	3	3.0	6.0	A98654-ND	.28	6.35	18.00	353908-3
	White	4	4.5	7.5	A98655-ND	.30	6.77	19.19	353908-4
	White	5	6.0	9.0	A98656-ND	.30	6.72	19.03	353908-5
	White	6	7.5	10.5	A98657-ND	.30	6.90	19.54	353908-6
	White	7	9.0	12.0	A98658-ND	.31	7.08	20.06	353908-7
	White	8	10.5	13.5	A98659-ND	.40	9.11	25.81	353908-8
	White	9	12.0	15.0	A98660-ND	.42	9.56	27.10	353908-9
	White	10	13.5	16.5	A98661-ND	.46	10.48	29.68	1-353908-0
	White	11	15.0	18.0	A98662-ND	.38	8.65	24.52	1-353908-1
	White	12	16.5	19.5	A98663-ND	.53	12.04	34.11	1-353908-2
	White	13	18.0	21.0	A98664-ND	.61	13.79	39.06	1-353908-3
	White	14	19.5	22.5	A98665-ND	.72	16.19	45.87	1-353908-4
	White	15	21.0	24.0	A98666-ND	.65	14.61	41.39	1-353908-5
	White	16	22.5	24.5	A99792-ND	.68	15.48	43.87	1-353908-6
	White	17	24.0	26.0	A99793-ND	.70	15.94	45.16	1-353908-7
	White	18	25.5	27.5	A99794-ND	1.08	24.40	69.14	1-353908-8
	White	19	27.0	29.0	A99795-ND	.94	21.26	60.24	1-353908-9

Fig.	No. of Positions	Dimensions – mm		Digi-Key Part No.	Pricing			AMP Part No.
		A	B		1	25	50	
Single Row Post Header Assemblies								
Vertical Through Hole with Boss								
3	2	1.5	3.6	A98681-ND	.30	6.81	12.11	292207-2
	3	3.0	5.1	A98682-ND	.31	7.04	12.52	292207-3
	4	4.5	6.6	A98683-ND	.93	20.99	37.32	292207-4
	5	6.0	8.1	A98684-ND	.33	7.36	13.09	292207-5
	6	7.5	9.6	A98685-ND	.43	9.57	17.02	292207-6
	7	9.0	11.1	A98686-ND	.43	9.64	17.14	292207-7
	8	10.5	12.6	A98687-ND	.45	10.06	17.88	292207-8
	9	12.0	14.1	A98688-ND	.51	11.56	20.55	292207-9
	10	13.5	15.6	A98689-ND	.54	12.16	21.61	1-292207-0
	11	15.0	17.1	A98690-ND	.69	15.52	27.59	1-292207-1
	12	16.5	18.6	A98691-ND	.64	14.43	25.65	1-292207-2
	13	18.0	20.1	A98692-ND	.65	14.60	25.96	1-292207-3
	14	19.5	21.6	A98693-ND	.65	14.64	26.02	1-292207-4
	15	21.0	23.1	A98694-ND	.65	14.67	26.08	1-292207-5
	16	22.5	24.6	A99777-ND	.76	17.15	30.49	1-292207-6
	17	24.0	26.1	A99778-ND	.80	17.92	31.86	1-292207-7
	18	25.5	27.6	A99779-ND	.81	18.23	32.42	1-292207-8
	19	27.0	29.1	A99780-ND	.88	19.70	35.02	1-292207-9
	20	28.5	30.6	A99781-ND	.74	16.68	29.65	2-292207-0

Fig.	No. of Positions	Dimensions – mm		Digi-Key Part No.	Pricing			AMP Part No.
		A	B		1	25	50	
Right Angle Through Hole								
4	2	1.5	3.6	A98667-ND	.38	8.45	15.02	292206-2
	3	3.0	5.1	A98668-ND	.38	8.44	15.01	292206-3
	4	4.5	6.6	A98669-ND	.47	10.57	18.80	292206-4
	5	6.0	8.1	A98670-ND	.44	9.84	17.49	292206-5
	6	7.5	9.6	A98671-ND	.56	12.51	22.23	292206-6
	7	9.0	11.1	A98672-ND	.76	17.15	30.49	292206-7
	8	10.5	12.6	A98673-ND	.91	20.45	36.36	292206-8
	9	12.0	14.1	A98674-ND	.90	20.28	36.06	292206-9
	10	13.5	15.6	A98675-ND	.52	11.67	20.74	1-292206-0
	11	15.0	17.1	A98676-ND	.95	21.26	37.80	1-292206-1
	12	16.5	18.6	A98677-ND	1.07	24.12	42.88	1-292206-2
	13	18.0	20.1	A98678-ND	.72	16.22	28.84	1-292206-3
	14	19.5	21.6	A98679-ND	.75	16.80	29.87	1-292206-4
	15	21.0	23.1	A98680-ND	1.32	29.72	52.83	1-292206-5
	16	22.5	24.60	A99772-ND	.79	17.67	31.41	1-292206-6
	17	24.0	26.1	A99773-ND	.83	18.76	33.36	1-292206-7
	18	25.5	27.6	A99774-ND	.86	19.42	34.53	1-292206-8
	19	27.0	29.1	A99775-ND	1.61	36.19	64.34	1-292206-9
	20	28.5	30.6	A99776-ND	1.71	38.38	68.24	2-292206-0

Fig.	No. of Positions	Dim. – mm		Digi-Key Part No.	Pricing			Tape and Reel†		AMP Part No.
		A	B		1	25	50	Qty.	Pricing	
Single Row Post Header Assemblies										
Vertical SMT with Boss										
5	3	3.0	7.0	A98708CT-ND‡	.47	10.63	18.89	500	133.81	292230-3
	4	4.5	8.5	A98709CT-ND‡	.51	11.55	20.54	500	145.50	292230-4
	5	6.0	10.0	A98710CT-ND‡	.70	15.85	28.19	500	199.65	292230-5
	6	7.5	11.5	A98711CT-ND‡	.58	13.07	23.23	500	164.57	292230-6
	7	9.0	13.0	A98712CT-ND‡	.66	14.74	26.21	500	185.64	292230-7
	8	10.5	14.5	A98713CT-ND‡	.69	15.43	27.44	500	194.36	292230-8
	9	12.0	16.0	A98714CT-ND‡	1.18	26.59	47.26	500	334.79	292230-9
	10	13.5	17.5	A98715CT-ND‡	.85	19.22	34.17	500	242.03	1-292230-0
	11	15.0	19.0	A98716CT-ND‡	.91	20.57	36.58	500	259.09	1-292230-1
	12	16.5	20.5	A98717CT-ND‡	1.64	36.90	65.61	500	464.70	1-292230-2
	13	18.0	22.0	A98718CT-ND‡	1.08	24.23	43.08	500	305.14	1-292230-3
	14	19.5	23.5	A98719CT-ND‡	1.16	26.06	46.33	500	328.15	1-292230-4
	15	21.0	25.0	A98720CT-ND‡	1.24	27.97	49.73	500	352.25	1-292230-5
	16	20.2	26.9	A99787CT-ND‡	1.29	29.08	51.70	500	366.23	1-292230-6
	17	20.2	28.4	A99788CT-ND‡	1.38	31.04	55.18	500	390.85	1-292230-7
	18	20.2	29.9	A99789CT-ND‡	1.34	30.19	53.67	500	380.20	1-292230-8
	19	20.2	31.4	A99790CT-ND‡	1.30	29.17	51.86	500	367.37	1-292230-9
	20	20.2	32.9	A99791CT-ND‡	1.56	35.16	62.51	500	442.77	2-292230-0
Right Angle SMT with Boss										
6	2	1.5	7.5	A98695CT-ND‡	.82	18.40	32.70	700	324.32	292227-2
	3	3.0	9.0	A98696CT-ND‡	.94	21.13	37.56	700	372.46	292227-3
	4	4.5	10.5	A98697CT-ND‡	.94	21.16	37.62	700	373.02	292227-4
	5	6.0	12.0	A98698CT-ND‡	1.01	22.80	40.54	700	402.02	292227-5
	6	7.5	13.5	A98699CT-ND‡	1.06	23.95	42.58	700	422.26	292227-6
	7	9.0	15.0	A98700CT-ND‡	1.18	26.49	47.09	700	466.98	292227-7
	8	10.5	16.5	A98701CT-ND‡	1.23	27.72	49.27	700	488.63	292227-8
	9	12.0	18.0	A98702CT-ND‡	1.29	29.10	51.72	700	512.94	292227-9
	10	13.5	19.5	A98703CT-ND‡	1.42	32.00	56.89	700	564.20	1-292227-0
	11	15.0	21.0	A98704CT-ND‡	1.32	29.78	52.95	700	525.04	1-292227-1
	12	16.5	22.5	A98705CT-ND‡	.97	21.80	38.76	700	384.41	1-292227-2
	14	19.5	25.5	A98706CT-ND‡	1.47	33.03	58.71	700	582.23	1-292227-4
	15	21.0	27.0	A98707CT-ND‡	1.52	34.11	60.64	700	601.31	1-292227-5
	16	20.2	31.1	A99782CT-ND‡	1.55	34.95	62.13	700	616.09	1-292227-6
	17	20.2	32.6	A99783CT-ND‡	1.58	35.57	63.24	700	627.08	1-292227-7
	18	20.2	34.1	A99784CT-ND‡	1.66	37.40	66.49	700	659.33	1-292227-8
	19	26.2	35.6	A99785CT-ND‡	1.80	40.53	72.05	700	714.50	1-292227-9
	20	26.2	37.1	A99786CT-ND‡	1.85	41.66	74.07	700	734.53	2-292227-0
Single Row Post Header Assemblies, Panel Mount										
7	2	1.5	3.6	A99743-ND	.53	11.88	21.12	—	—	292215-2
	3	3.0	5.1	A99744-ND	.60	13.43	23.87	—	—	292215-3
	4	4.5	6.6	A99745-ND	.62	14.01	24.90	—	—	292215-4
	5	6.0	8.1	A99746-ND	.56	12.66	22.51	—	—	292215-5
	6	7.5	9.6	A99747-ND	.69	15.54	27.62	—	—	292215-6
	7	9.0	11.1	A99748-ND	.72	16.23	28.86	—	—	292215-7
	8	10.5	12.6	A99749-ND	.82	18.53	32.94	—	—	292215-8
	9	12.0	14.1	A99750-ND	1.02	22.88	40.68	—	—	292215-9
	10	13.5	15.6	A99751-ND	.99	22.19	39.45	—	—	1-292215-0
	11	15.0	17.1	A99752-ND	1.18	26.61	47.30	—	—	1-292215-1
	12	16.5	18.6	A99753-ND	.86	19.25	34.23	—	—	1-292215-2
	13	18.0	20.1	A99754-ND	.88	19.75	35.12	—	—	1-292215-3
	14	19.5	21.6	A99755-ND	1.26	28.40	50.48	—	—	1-292215-4
	15	21.0	23.1	A99756-ND	.82	18.48	32.85	—	—	1-292215-5
	16	22.5	24.6	A99757-ND	1.56	35.02	62.25	—	—	1-292215-6
	17	24.0	26.1	A99758-ND	1.71	38.46	68.37	—	—	1-292215-7
	18	25.5	27.6	A99759-ND	1.65	37.23	66.18	—	—	1-292215-8
	19	27.0	29.1	A99760-ND	1.67	37.54	66.74	—	—	1-292215-9
	20	28.5	30.6	A99761-ND	1.79	40.17	71.40	—	—	2-292215-0
Receptacle Connector Mounting Holders										
8	22	15.0	22.0	A99762-ND	.54	12.20	34.56	—	—	2-353294-2
	24	16.5	23.5	A99763-ND	.51	11.56	32.76	—	—	2-353294-4
	26	18.0	25.0	A99764-ND	.46	10.38	29.42	—	—	2-353294-6
	28	19.5	26.5	A99765-ND	.47	10.65	30.18	—	—	2-353294-8
	30	21.0	28.0	A99766-ND	.50	11.24	31.86	—	—	3-353294-0
	32	22.5	29.5	A99767-ND	.57	12.84	36.37	—	—	3-353294-2
	34	24.0	31.0	A99768-ND	.81	18.32	51.91	—	—	3-353294-4
	36	25.5	32.5	A99769-ND	.68	15.31	43.38	—	—	3-353294-6
	38	27.0	34.0	A99770-ND	.79	17.98	50.93	—	—	3-353294-8
	40	28.5	35.5	A99771-ND	.83	18.88	53.48	—	—	4-353294-0
Double Row Post Header Assemblies, Vertical Mount Through Hole										
9	22	15.0	22.0	A99728-ND	1.51	33.97	60.38	—	—	2-292208-2
	24	16.5	23.5	A99729-ND	1.61	36.31	64.55	—	—	2-292208-4
	26	18.0	25.0	A99730-ND	1.84	41.48	73.75	—	—	2-292208-6
	28	19.5	26.5	A99731-ND	1.81	40.75	72.45	—	—	2-292208-8
	30	21.0	28.0	A99732-ND	1.28	28.88	51.34	—	—	3-292208-0
	32	22.5	29.5	A99733-ND	1.89	42.63	75.78	—	—	3-292208-2
	34	24.0	31.0	A99734-ND	1.48	33.22	59.06	—	—	3-292208-4
	36	25.5	32.5	A99735-ND	1.32	29.81	52.99	—	—	3-292208-6
	38	27.0	34.0	A99736-ND	2.03	45.64	81.14	—	—	3-292208-8
	40	28.5	35.5	A99737-ND	2.48	55.78	99.16	—	—	4-292208-0

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape
Note: Two receptacle connectors are applied per holder.

(Continued)

AMP Mini CT 1.5mm Connectors *(Cont.)*

Fig.	Color	No. of Pos.	Dimensions – mm A	B	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
					NEW! Dual Row Right Angle Through Hole NEW!				
10	Gray	22	15.0	22.0	A100975-ND	11.18	10.07	8.95	2-292262-2
	Gray	24	16.5	23.5	A100976-ND	6.15	5.54	4.92	2-292262-4
	Gray	26	18.0	25.0	A100977-ND	6.24	5.62	5.00	2-292262-6
	Gray	30	21.0	28.0	A100978-ND	9.53	8.58	7.63	3-292262-0
	Gray	32	22.5	29.5	A100979-ND	5.59	5.03	4.48	3-292262-2
	Gray	34	24.0	31.0	A100980-ND	9.82	8.84	7.86	3-292262-4

Fig.	Color	No. of Pos.	Dim. – mm A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Tape and Reel† Qty.	Pricing	AMP Part No.
					NEW! Right Angle SMT Header NEW!						
11	Beige	2	1.5	9.5	A101007CT-ND	.63	.58	.51	700	266.58	292228-2
	Beige	3	3.0	11.0	A101008CT-ND	.63	.58	.51	700	266.63	292228-3
	Beige	4	4.5	12.5	A101009CT-ND	.61	.56	.50	700	257.33	292228-4
	Beige	5	6.0	14.0	A101010CT-ND	.66	.60	.54	700	279.27	292228-5
	Beige	6	7.5	15.5	A101011CT-ND	.65	.59	.52	700	271.98	292228-6
	Beige	7	9.0	17.0	A101012CT-ND	.88	.80	.71	700	371.36	292228-7
	Beige	8	10.5	18.5	A101013CT-ND	.69	.63	.56	700	291.17	292228-8
	Beige	9	12.0	20.0	A101014CT-ND	.91	.82	.73	700	381.65	292228-9
	Beige	10	13.5	21.5	A101015CT-ND	.98	.88	.79	700	410.09	1-292228-0
	Beige	11	15.0	23.0	A101016CT-ND	.81	.74	.66	700	342.01	1-292228-1
	Beige	12	16.5	24.5	A101017CT-ND	2.44	2.20	1.96	700	1025.15	1-292228-2
	Beige	13	18.0	26.0	A101018CT-ND	.69	.63	.56	700	289.98	1-292228-3
	Beige	14	19.5	27.5	A101019CT-ND	1.02	.92	.82	700	426.69	1-292228-4
	Beige	15	21.0	29.0	A101020CT-ND	1.05	.95	.84	700	440.24	1-292228-5
	Beige	16	22.5	30.5	A101021CT-ND	.67	.61	.54	1,400	404.45/M	1-292228-6
	Beige	17	24.0	32.0	A101022CT-ND	.88	.80	.71	700	370.65	1-292228-7
	Beige	18	25.5	33.5	A101023CT-ND	.68	.62	.55	1,400	410.17/M	1-292228-8
	Beige	19	27.0	35.0	A101024CT-ND	.72	.66	.58	1,400	434.00/M	1-292228-9

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Tape and Reel† Pricing 15,000	AMP Part No.
		Crimp Receptacle Contact				
Receptacle Contact, 24 ~ 28AWG	A99378CT-ND	4.46	20.42	37.13	20.05/M	353907-1
		Tools				
Pistol Grip for Mini CT IDC Connectors	A98810-ND	2506.35/1			—	937317-1
Short Handle for Mini CT Crimp Connectors	A99879-ND	1061.76/1			—	1729069-1

† For Tape and Reel part number, change CT-ND to TR-ND. ***Note:*** Two receptacle connectors are applied per holder.

AMP 1.5mm HPI Connectors

Features: • Standard terminal design compatible with general market discrete wire-to-board products • Small pitch discrete wire interconnect
Applications: • Business equipment • Industrial machines • Wire-to-board applications • Plasma display panels • LCD monitor • LED equipment • Small electronics equipment • Anywhere where signals or power are routed

Fig. 1

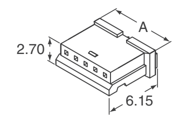

Fig. 2

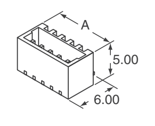

Fig. 3

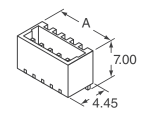

Fig.	No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Pricing 1	25	50	Tape and Reel† Qty.	Pricing	AMP Part No.
			Receptacle Housing						
1	2	4.10	A99968-ND	.07	1.62	2.70	—	—	1775441-2
	3	5.60	A99969-ND	.08	1.78	2.97	—	—	1775441-3
	4	7.10	A99970-ND	.10	2.28	3.79	—	—	1775441-4
	5	8.60	A99971-ND	.11	2.38	3.97	—	—	1775441-5
	6	10.10	A99972-ND	.12	2.80	4.67	—	—	1775441-6
	7	11.60	A99973-ND	.15	3.32	5.54	—	—	1775441-7
	8	13.10	A99974-ND	.15	3.33	5.56	—	—	1775441-8
	9	14.60	A99975-ND	.15	3.35	5.58	—	—	1775441-9
	10	16.10	A99976-ND	.17	3.95	6.58	—	—	1-1775441-0
	11	17.60	A99977-ND	.18	4.16	6.94	—	—	1-1775441-1
	12	19.10	A99978-ND	.19	4.41	7.35	—	—	1-1775441-2
	13	20.60	A99979-ND	.28	6.31	10.51	—	—	1-1775441-3
	14	22.10	A99980-ND	.28	6.32	10.53	—	—	1-1775441-4
	15	23.60	A99981-ND	.28	6.33	10.56	—	—	1-1775441-5
			Vertical SMT Header						
2	2	4.50	A99982CT-ND‡	.31	7.07	12.56	800	142.35	5-1775443-2
	3	6.00	A99983CT-ND‡	.42	9.35	16.61	800	188.29	5-1775443-3
	4	7.50	A99984CT-ND‡	.50	11.26	20.02	800	226.92	5-1775443-4
	5	9.00	A99985CT-ND‡	.60	13.42	23.86	800	270.37	5-1775443-5
	6	10.50	A99986CT-ND‡	.71	16.03	28.50	800	323.00	5-1775443-6
	7	12.00	A99987CT-ND‡	.82	18.48	32.85	800	372.27	5-1775443-7
	8	13.50	A99988CT-ND‡	.90	20.15	35.82	800	405.91	5-1775443-8
2	9	15.00	A99989CT-ND‡	.97	21.81	38.77	800	439.36	5-1775443-9
	10	16.50	A99990CT-ND‡	1.11	24.87	44.22	800	501.15	6-1775443-0
	11	18.00	A99991CT-ND‡	1.42	31.88	56.67	800	642.23	6-1775443-1
	12	19.50	A99992CT-ND‡	1.51	33.90	60.26	800	682.99	6-1775443-2
	13	21.00	A99993CT-ND‡	1.69	38.11	67.75	800	767.82	6-1775443-3
	14	22.50	A99994CT-ND‡	1.78	40.08	71.25	800	807.47	6-1775443-4
	15	24.00	A99995CT-ND‡	1.86	41.88	74.46	800	843.83	6-1775443-5
			Right Angle SMT Header						
3	2	4.50	A99996CT-ND‡	.26	5.84	10.38	1,000	147.10	5-1775444-2
	3	6.00	A99997CT-ND‡	.33	7.32	13.02	1,000	184.47	5-1775444-3
	4	7.50	A99998CT-ND‡	.39	8.88	15.78	1,000	223.58	5-1775444-4
	5	9.00	A99999CT-ND‡	.47	10.52	18.71	1,000	265.03	5-1775444-5
	6	10.50	A100000CT-ND‡	.56	12.56	22.33	1,000	316.39	5-1775444-6
	7	12.00	A100001CT-ND‡	.65	14.53	25.84	1,000	366.03	5-1775444-7
	8	13.50	A100002CT-ND‡	.70	15.81	28.10	1,000	398.12	5-1775444-8
	9	15.00	A100003CT-ND‡	.76	17.06	30.33	1,000	429.66	5-1775444-9
	10	16.50	A100004CT-ND‡	.94	21.18	37.65	1,000	533.39	6-1775444-0
	11	18.00	A100005CT-ND‡	1.16	26.15	46.50	1,000	658.68	6-1775444-1
	12	19.50	A100006CT-ND‡	1.12	25.18	44.77	1,000	634.22	6-1775444-2
	13	21.00	A100007CT-ND‡	1.27	28.51	50.68	1,000	717.93	6-1775444-3
	14	22.50	A100008CT-ND‡	1.33	29.89	53.14	1,000	752.81	6-1775444-4
	15	24.00	A100009CT-ND‡	1.39	31.25	55.56	1,000	787.07	6-1775444-5

Description	Wire Range	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Tape and Reel† Qty.	Pricing	AMP Part No.
			1.5mm HPI Contact					
Receptacle	24 ~ 30 AWG	A99967CT-ND	1.79	8.21	14.93	15,000	8.06/M	1775442-1

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

AMP CT 2.0mm Connectors

Features: • Ensures substantial labor saving as well as improved quality and stability in harness assembly • Both MT receptacle connectors and crimp-type receptacle connectors can share the same post headers when mated • 1-row and 2-row types • Discrete wire interconnect • IDC receptacle contacts in MT (Mass Termination) housings • AWG: 22 ~ 30 • Pitch: 2.0mm
Applications: • Business equipment • Industrial machines • Anywhere where routing signals or power are present • Wire-to-Board applications

Fig. 1

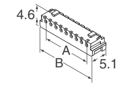

Fig. 2

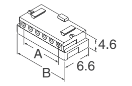

Fig. 3

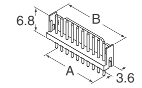

Fig. 4

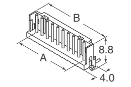

Fig. 5

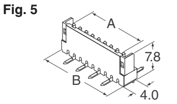

Fig. 6

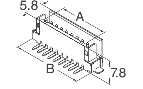

Fig. 7

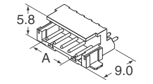

Fig. 8

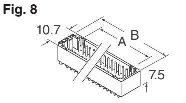

Fig. 9

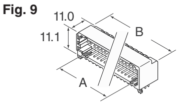

Fig. 10

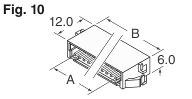

Fig.	Color	No. of Positions	Dimensions – mm A	B	Digi-Key Part No.	Pricing 1	25	100	AMP Part No.
					IDC Receptacle Assembly, 26 ~ 28 AWG				
1	Natural	2	2.0	6.0	A98800-ND	.15	3.47	9.83	173977-2
	Natural	3	4.0	8.0	A98801-ND	.20	4.51	12.79	173977-3
	Natural	4	6.0	10.0	A98802-ND	.29	6.46	18.30	173977-4
	Natural	5	8.0	12.0	A98803-ND	.46	10.42	29.52	173977-5
	Natural	6	10.0	14.0	A98804-ND	.53	12.10	34.29	173977-6
	Natural	7	12.0	16.0	A98805-ND	.38	8.55	24.21	173977-7
	Natural	8	14.0	18.0	A98616-ND	.66	14.90	42.23	173977-8
	Natural	9	16.0	20.0	A98617-ND	.77	17.44	49.41	173977-9
	Natural	10	18.0	22.0	A98618-ND	.67	15.26	43.24	1-173977-0
	Natural	11	20.0	24.0	A98806-ND	.90	20.37	57.72	1-173977-1
	Natural	12	22.0	26.0	A98807-ND	.91	20.57	58.28	1-173977-2
	Natural	13	24.0	28.0	A98619-ND	.93	21.15	59.93	1-173977-3
	Natural	14	26.0	30.0	A98620-ND	.58	13.24	37.50	1-173977-4
	Natural	15	28.0	32.0	A98621-ND	.74	16.85	47.74	1-173977-5
					Crimp Type II Single Row Receptacle Housing Contact				
2	Natural	2	2.0	6.0	A98602-ND	.12	2.68	7.59	179228-2
	Natural	3	4.0	8.0	A98603-ND	.18	4.16	11.78	179228-3
	Natural	4	6.0	10.0	A98604-ND	.18	4.00	11.34	179228-4
	Natural	5	8.0	12.0	A98605-ND	.18	4.03	11.42	179228-5
	Natural	6	10.0	14.0	A98606-ND	.20	4.52	12.81	179228-6
	Natural	7	12.0	16.0	A98607-ND	.25	5.61	15.90	179228-7
	Natural	8	14.0	18.0	A98608-ND	.29	6.58	18.63	179228-8
	Natural	9	16.0	20.0	A98609-ND	.34	7.80	22.10	179228-9
	Natural	10	18.0	22.0	A98610-ND	.42	9.49	26.89	1-179228-0
	Natural	11	20.0	24.0	A98611-ND	.42	9.44	26.74	1-179228-1
	Natural	12	22.0	26.0	A98612-ND	.55	12.54	35.54	1-179228-2
	Natural	13	24.0	28.0	A98613-ND	.61	13.74	38.94	1-179228-3
	Natural	14	26.0	30.0	A98614-ND	.64	14.58	41.30	1-179228-4
	Natural	15	28.0	32.0	A98615-ND	.68	15.50	43.92	1-179228-5

(Continued)

AMP CT 2.0mm Connectors *(Cont.)*

Fig.	Color	No. of Positions	Dimensions – mm A	Dimensions – mm B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	AMP Part No.
Post Header Assemblies									
Vertical Through Hole, Standard Type									
3	Natural	2	2.0	5.8	A98588-ND	.21	4.81	15.31	292161-2
	Natural	3	4.0	7.8	A98589-ND	.43	9.64	30.71	292161-3
	Natural	4	6.0	9.8	A98590-ND	.36	8.03	25.59	292161-4
	Natural	5	8.0	11.8	A98591-ND	.43	9.64	30.71	292161-5
	Natural	6	10.0	13.8	A98592-ND	.43	9.75	31.05	292161-6
	Natural	7	12.0	15.8	A98593-ND	.48	10.71	34.12	292161-7
	Natural	8	14.0	17.8	A98594-ND	.76	17.14	54.59	292161-8
	Natural	9	16.0	19.8	A98595-ND	.58	13.12	41.80	292161-9
	Natural	10	18.0	21.8	A98596-ND	.61	13.77	43.85	1-292161-0
	Natural	11	20.0	23.8	A98597-ND	.94	21.19	67.50	1-292161-1
	Natural	12	22.0	25.8	A98598-ND	.86	19.36	61.66	1-292161-2
	Natural	13	24.0	27.8	A98599-ND	.85	19.06	60.72	1-292161-3
	Natural	14	26.0	29.8	A98600-ND	.92	20.74	66.06	1-292161-4
	Natural	15	28.0	31.8	A98601-ND	1.08	24.24	77.22	1-292161-5
Right Angle Through Hole, Standard Type									
4	Natural	2	2.0	5.8	A98574-ND	.23	5.22	16.62	292253-2
	Natural	3	4.0	7.8	A98575-ND	.22	4.89	15.57	292253-3
	Natural	4	6.0	9.8	A98576-ND	.43	9.76	31.09	292253-4
	Natural	5	8.0	11.8	A98577-ND	.44	9.80	31.22	292253-5
	Natural	6	10.0	13.8	A98578-ND	.66	14.92	47.54	292253-6
	Natural	7	12.0	15.8	A98579-ND	.54	12.13	38.65	292253-7
	Natural	8	14.0	17.8	A98580-ND	.60	13.55	43.16	292253-8
	Natural	9	16.0	19.8	A98581-ND	.62	13.90	44.27	292253-9
	Natural	10	18.0	21.8	A98582-ND	.92	20.61	65.64	1-292253-0
	Natural	11	20.0	23.8	A98583-ND	.91	20.53	65.39	1-292253-1
	Natural	12	22.0	25.8	A98584-ND	1.09	24.48	77.98	1-292253-2
	Natural	13	24.0	27.8	A98585-ND	1.18	26.65	84.90	1-292253-3
	Natural	14	26.0	29.8	A98586-ND	1.17	26.32	83.82	1-292253-4
	Natural	15	28.0	31.8	A98587-ND	1.13	25.33	80.70	1-292253-5

Fig.	No. of Positions	Dimensions – mm A	Dimensions – mm B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 50	AMP Part No.
Post Header Assemblies								
Vertical Through Hole, Box Type								
4	2	2.0	5.8	A98777-ND	.26	5.77	10.25	292132-2
	3	4.0	7.8	A98778-ND	.30	6.81	12.10	292132-3
	4	6.0	9.8	A98779-ND	.30	6.65	11.82	292132-4
	5	8.0	11.8	A98780-ND	.49	10.95	19.47	292132-5
	6	10.0	13.8	A98781-ND	.35	7.82	13.90	292132-6
	7	12.0	15.8	A98782-ND	.57	12.88	22.90	292132-7
	8	14.0	17.8	A98783-ND	.61	13.78	24.50	292132-8
	9	16.0	19.8	A98784-ND	.67	15.12	26.87	292132-9
	10	18.0	21.8	A98785-ND	.68	15.27	27.14	1-292132-0
	11	20.0	23.8	A98786-ND	.92	20.62	36.65	1-292132-1
	12	22.0	25.8	A98787-ND	.97	21.93	38.98	1-292132-2
	13	24.0	27.8	A98788-ND	1.09	24.49	43.54	1-292132-3
	14	26.0	29.8	A98789-ND	1.33	29.91	53.18	1-292132-4
	15	28.0	31.8	A98790-ND	1.11	25.05	44.53	1-292132-5
Right Angle Through Hole, Box Type								
3	2	2.0	5.8	A98763-ND	.31	6.87	12.21	292250-2
	3	4.0	7.8	A98764-ND	.36	8.19	14.56	292250-3
	4	6.0	9.8	A98765-ND	.39	8.74	15.53	292250-4
	5	8.0	11.8	A98766-ND	.47	10.54	18.74	292250-5
	6	10.0	13.8	A98767-ND	.53	11.93	21.20	292250-6
	7	12.0	15.8	A98768-ND	.80	18.11	32.19	292250-7
	8	14.0	17.8	A98769-ND	.75	16.93	30.10	292250-8
	9	16.0	19.8	A98770-ND	.89	20.01	35.57	292250-9
	10	18.0	21.8	A98771-ND	.90	20.15	35.82	1-292250-0
	11	20.0	23.8	A98772-ND	1.85	41.52	73.81	1-292250-1
	12	22.0	25.8	A98773-ND	1.71	38.38	68.23	1-292250-2
	13	24.0	27.8	A98774-ND	1.51	34.01	60.47	1-292250-3
	14	26.0	29.8	A98775-ND	1.16	26.12	46.43	1-292250-4
	15	28.0	31.8	A98776-ND	1.20	27.04	48.07	1-292250-5

Fig.	No.of Positions	Dim. – mm A	Dim. – mm B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 50	Tape and Reel† Qty.	Tape and Reel† Pricing	AMP Part No.
Vertical SMT with Boss and Tail, Standard Type										
5	2	2.0	6.0	A98791-ND	.60	13.56	24.12	—	—	292171-2
	3	4.0	8.0	A98792-ND	.64	14.43	25.66	—	—	292171-3
	4	6.0	10.0	A98793-ND	.73	16.45	29.24	—	—	292171-4
	5	8.0	12.0	A98794-ND	1.12	25.20	44.80	—	—	292171-5
	6	10.0	14.0	A98795-ND	1.21	27.25	48.44	—	—	292171-6
	7	12.0	16.0	A98796-ND	1.25	28.13	50.01	—	—	292171-7
	8	14.0	18.0	A98797-ND	1.35	30.38	54.01	—	—	292171-8
	9	16.0	20.0	A98798-ND	1.54	34.54	61.41	—	—	292171-9
6	2	2.0	5.8	A98632CT-ND‡	1.31	29.57	52.56	700	521.22	292174-2
	3	4.0	7.8	A98633CT-ND‡	1.31	29.37	52.21	700	517.76	292174-3
	4	6.0	9.8	A98634CT-ND‡	1.42	31.85	56.63	700	561.55	292174-4
	5	8.0	11.8	A98635CT-ND‡	1.54	34.55	61.42	700	609.05	292174-5
	6	10.0	13.8	A98636CT-ND‡	1.34	30.24	53.77	700	533.19	292174-6
	7	12.0	15.8	A98637CT-ND‡	1.50	33.71	59.93	700	594.33	292174-7
	8	14.0	17.8	A98638CT-ND‡	1.60	36.07	64.12	700	635.83	292174-8
	9	16.0	19.8	A98639CT-ND‡	1.81	40.82	72.57	700	719.66	292174-9
Right Angle SMT with Boss and Tail, Box Type										
7	2	2.0	—	A98624CT-ND‡	1.02	23.00	40.90	500	289.68	292173-2
	3	4.0	—	A98625CT-ND‡	1.06	23.78	42.27	500	299.42	292173-3
	4	6.0	—	A98626CT-ND‡	1.31	29.37	52.22	500	369.89	292173-4
	5	8.0	—	A98627CT-ND‡	1.27	28.59	50.82	500	360.01	292173-5
	6	10.0	—	A98628CT-ND‡	1.39	31.28	55.61	500	393.90	292173-6
	7	12.0	—	A98629CT-ND‡	1.63	36.58	65.04	500	460.67	292173-7
	8	14.0	—	A98630CT-ND‡	1.95	43.90	78.04	500	552.81	292173-8
	9	16.0	—	A98631CT-ND‡	3.18	71.50	127.11	500	900.37	292173-9

† For Tape and Reel part number, change CT-ND to TR-ND ‡ Cut Tape.

Fig.	No. of Positions	Dim. – mm A	Dim. – mm B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 50	AMP Part No.
Post Header Double Row								
Vertical Through Hole with Boss								
8	16	14.0	21.9	A99720-ND	1.03	23.19	41.23	1-292141-6
	18	16.0	23.9	A99721-ND	1.04	23.40	41.61	1-292141-8
	20	18.0	25.9	A99722-ND	1.10	24.65	43.82	2-292141-0
	22	20.0	27.9	A99723-ND	1.20	26.91	47.85	2-292141-2
	24	22.0	29.9	A99724-ND	1.13	25.40	45.15	2-292141-4
	26	24.0	31.9	A99725-ND	1.59	35.85	63.73	2-292141-6
	28	26.0	33.9	A99726-ND	1.25	28.06	49.88	2-292141-8
	30	28.0	35.9	A99727-ND	1.29	28.92	51.42	3-292141-0
Right Angle Through Hole								
9	16	14.0	21.9	A99712-ND	1.78	40.05	71.21	1-292138-6
	18	16.0	23.9	A99713-ND	1.74	39.09	69.49	1-292138-8
	22	20.0	27.9	A99715-ND	1.64	36.79	65.41	2-292138-2
	24	22.0	29.9	A99716-ND	1.48	33.21	59.04	2-292138-4
	26	24.0	31.9	A99717-ND	1.80	40.52	72.04	2-292138-6
	28	26.0	33.9	A99718-ND	2.12	47.80	84.98	2-292138-8
	30	28.0	35.9	A99719-ND	2.03	45.63	81.12	3-292138-0
Translation Assembly (Panel Mounting Side)								
10	2	2.0	7.8	A99698-ND	.30	6.67	11.85	292254-2
	3	4.0	9.8	A99699-ND	.35	7.87	13.99	292254-3
	4	6.0	11.8	A99700-ND	.38	8.48	15.07	292254-4
	5	8.0	13.8	A99701-ND	.72	16.13	28.68	292254-5
	6	10.0	15.8	A99702-ND	.88	19.72	35.07	292254-6
	7	12.0	17.8	A99703-ND	1.00	22.59	40.17	292254-7
	8	14.0	19.8	A99704-ND	.89	19.95	35.46	292254-8
	9	16.0	21.8	A99705-ND	1.08	24.21	43.04	292254-9
	10	18.0	23.8	A99706-ND	.98	22.12	39.32	1-292254-0
	11	20.0	25.8	A99707-ND	1.33	29.92	53.18	1-292254-1
	12	22.0	27.8	A99708-ND	1.95	43.86	77.97	1-292254-2
	13	24.0	29.8	A99709-ND	1.65	37.17	66.08	1-292254-3
	14	26.0	31.8	A99710-ND	1.81	40.74	72.43	1-292254-4
	15	28.0	33.8	A99711-ND	1.97	44.42	78.97	1-292254-5

Description	Wire Range	Digi-Key Part No.	Pricing 100	Pricing 500	Pricing 1,000	T & R† Pricing 10,000	AMP Part No.
Crimp Type II Receptacle Contacts							
Receptacle Contact	26 ~ 30 AWG	A98622CT-ND‡	5.57	25.52	46.40	25.06/M	179609-1
Receptacle Contact	22 ~ 26 AWG	A98623CT-ND‡	3.96	18.15	33.00	17.82/M	179227-1
Crimp Tools							
Crimp Tool for 179609-1	26 ~ 30 AWG	A99843-ND	1044.73/1			—	234169-1
Crimp Tool for 179227-1	22 ~ 26 AWG	A99844-ND	603.45/1			—	91572-1
Pistol Grip for Metal and Plastic Shell Connectors	—	A2031-ND	63.72/1			—	58074-1
Head Assembly for 2mm MT Receptacles	—	A99129-ND	1077.12/1			—	58372-1

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

AMP 2.0mm Mini-Drawer Connectors

Mini-Drawer Connectors mate with Mini Drawer connectors at the front end and accept CT receptacle connectors at the rear end.

Material and Finish:
• Housing: Glass filled PBT, Black • Contact: Copper alloy Gold plated on contact area, Tin plated on post area, with entire contact underplated Nickel **Voltage Rating:** 125V AC Maximum **Current Rating:** 1A Maximum (When ambient temperature is below 60°C)
Operating Temperature: -20° ~ +120°C

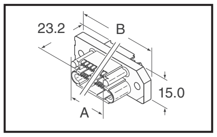

No. of Positions	Dimensions - mm		Digi-Key Part No.	Pricing			AMP Part No.
	A	B		1	25	100	
14	19.0	41.0	A99696-ND	4.56	103.20	292.40	5-292177-1
22	27.0	49.0	A99697-ND	8.11	183.60	520.20	5-292178-1

AMP 2.0mm HPI Connectors

Features: • Standard terminal design compatible with general market discrete wire to board products • 22 ~ 32 AWG • Latching solution
Applications: • Business equipment • Industrial machines • Wire-to-board applications • Plasma display panels • LCD monitor • LED equipment • Small electronics equipment • Anywhere where signals or power are routed

Fig. 1

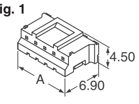

Fig. 2

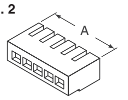

Fig. 3

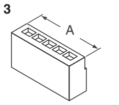

Fig. 4

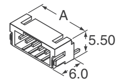

Fig. 5

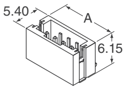

Fig. 6

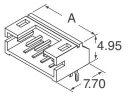

Fig. 7

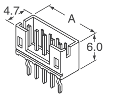

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Pricing			Tape and Reel†		AMP Part No.
				1	25	100	Qty.	Pricing	
Housing Assemblies									
Receptacle									
1	2	4.70	A100011-ND	.04	.80	2.26	—	—	440129-2
	3	6.70	A100012-ND	.07	1.59	4.51	—	—	440129-3
	4	8.70	A100013-ND	.07	1.63	4.61	—	—	440129-4
	5	10.70	A100014-ND	.12	2.80	7.92	—	—	440129-5
	6	12.70	A100015-ND	.14	3.19	9.04	—	—	440129-6
	7	14.80	A100016-ND	.17	3.86	10.93	—	—	440129-7
	8	16.80	A100017-ND	.15	3.33	9.44	—	—	440129-8
	9	18.80	A100018-ND	.19	4.37	12.39	—	—	440129-9
	10	20.80	A100019-ND	.18	4.00	11.33	—	—	1-440129-0
	11	22.80	A100142-ND	.23	5.31	15.04	—	—	1-440129-1
	12	24.80	A100143-ND	.26	5.81	16.47	—	—	1-440129-2
	13	26.80	A100144-ND	.28	6.28	17.80	—	—	1-440129-3
	14	28.80	A100145-ND	.30	6.75	19.14	—	—	1-440129-4
	15	30.80	A100146-ND	.32	7.26	20.56	—	—	1-440129-5
	16	32.80	A100147-ND	.34	7.73	21.90	—	—	1-440129-6
Receptacle, Latching									
1	3	6.80	A100020-ND	.03	.61	1.74	—	—	1735447-3
	4	8.80	A100021-ND	.04	1.01	2.85	—	—	1735447-4
	5	10.80	A100022-ND	.06	1.28	3.62	—	—	1735447-5
	6	12.80	A100023-ND	.05	1.18	3.35	—	—	1735447-6
	7	14.80	A100024-ND	.06	1.38	3.91	—	—	1735447-7
	8	16.80	A100025-ND	.05	1.18	3.33	—	—	1735447-8
	9	18.80	A100026-ND	.06	1.33	3.78	—	—	1735447-9
	10	20.80	A100027-ND	.07	1.69	4.79	—	—	1-1735447-0
	11	22.80	A100028-ND	.08	1.86	5.28	—	—	1-1735447-1
	12	24.80	A100029-ND	.09	2.04	5.77	—	—	1-1735447-2
	13	26.80	A100030-ND	.10	2.21	6.26	—	—	1-1735447-3
	14	28.80	A100031-ND	.10	2.37	6.71	—	—	1-1735447-4
	15	30.80	A100032-ND	.12	2.80	7.93	—	—	1-1735447-5
	16	32.80	A100033-ND	.13	2.98	8.43	—	—	1-1735447-6
Board-In, Right Angle Receptacle									
2	2	5.2	A100112-ND	.04	.93	2.64	—	—	1470199-2
	3	7.2	A100113-ND	.04	.91	2.58	—	—	1470199-3
	4	9.2	A100114-ND	.07	1.66	4.71	—	—	1470199-4
	5	11.2	A100115-ND	.09	2.08	5.90	—	—	1470199-5
	6	13.2	A100116-ND	.11	2.50	7.07	—	—	1470199-6
	7	15.2	A100117-ND	.13	2.92	8.26	—	—	1470199-7
	8	17.2	A100118-ND	.15	3.33	9.44	—	—	1470199-8
	9	19.2	A100119-ND	.17	3.74	10.61	—	—	1470199-9
	10	21.2	A100120-ND	.18	4.16	11.80	—	—	1-1470199-0
	11	23.2	A100121-ND	.20	4.58	12.97	—	—	1-1470199-1
	12	25.2	A100122-ND	.22	4.99	14.14	—	—	1-1470199-2
	13	27.2	A100123-ND	.24	5.41	15.33	—	—	1-1470199-3
	14	29.2	A100124-ND	.26	5.83	16.51	—	—	1-1470199-4
	15	31.2	A100125-ND	.28	6.24	17.68	—	—	1-1470199-5
Board-In, Vertical Receptacle									
3	2	5.2	A100127-ND	.04	.93	2.64	—	—	1470201-2
	3	7.2	A100128-ND	.05	1.10	3.11	—	—	1470201-3
	4	9.2	A100129-ND	.06	1.46	4.15	—	—	1470201-4
	5	11.2	A100130-ND	.08	1.83	5.19	—	—	1470201-5
	6	13.2	A100131-ND	.10	2.20	6.22	—	—	1470201-6
	7	15.2	A100132-ND	.11	2.56	7.26	—	—	1470201-7
	8	17.2	A100133-ND	.13	2.93	8.30	—	—	1470201-8
	9	19.2	A100134-ND	.15	3.29	9.33	—	—	1470201-9
3	10	21.2	A100135-ND	.16	3.66	10.37	—	—	1-1470201-0
	11	23.2	A100136-ND	.18	4.03	11.41	—	—	1-1470201-1
	12	25.2	A100137-ND	.19	4.39	12.44	—	—	1-1470201-2
	13	27.2	A100138-ND	.21	4.76	13.48	—	—	1-1470201-3
	14	29.2	A100139-ND	.23	5.13	14.54	—	—	1-1470201-4
	15	31.2	A100140-ND	.24	5.50	15.57	—	—	1-1470201-5
	16	33.2	A100141-ND	.26	5.86	16.61	—	—	1-1470201-6
Post Header Assemblies									
Right Angle SMT									
4	2	7.40	A100080CT-ND	.47	10.60	33.78	600	160.24	1775469-2
	3	9.40	A100081CT-ND	.53	11.91	37.93	600	179.93	1775469-3
	4	11.40	A100082CT-ND	.53	11.96	38.10	600	180.74	1775469-4
	5	13.40	A100083CT-ND	.56	12.55	39.97	600	189.62	1775469-5
	6	15.40	A100084CT-ND	.60	13.59	43.30	600	205.43	1775469-6
	7	17.40	A100085CT-ND	.67	15.01	47.82	600	226.85	1775469-7
	8	19.40	A100086CT-ND	.68	15.26	48.61	600	230.62	1775469-8
	9	21.40	A100087CT-ND	.69	15.62	49.75	600	236.03	1775469-9
	10	23.40	A100088CT-ND	.80	18.11	57.68	600	273.67	1-1775469-0
	11	25.40	A100089CT-ND	.90	20.19	64.31	600	305.08	1-1775469-1
	12	27.40	A100090CT-ND	1.20	26.92	85.74	600	406.78	1-1775469-2
	13	29.40	A100091CT-ND	1.21	27.20	86.62	600	410.96	1-1775469-3
	14	31.40	A100092CT-ND	1.22	27.47	87.51	600	415.14	1-1775469-4
	15	33.40	A100093CT-ND	1.23	27.72	88.30	600	418.91	1-1775469-5
Vertical SMT									
5	2	7.40	A100052CT-ND	.64	14.30	45.55	500	180.07	1775470-2
	3	9.40	A100053CT-ND	.67	15.03	47.86	500	189.21	1775470-3
	4	11.40	A100054CT-ND	.69	15.59	49.67	500	196.35	1775470-4
	5	13.40	A100055CT-ND	.72	16.16	51.47	500	203.49	1775470-5
	6	15.40	A100056CT-ND	.76	17.12	54.54	500	215.63	1775470-6
	7	17.40	A100057CT-ND	.82	18.48	58.88	500	232.76	1775470-7
	8	19.40	A100058CT-ND	.83	18.72	59.63	500	235.76	1775470-8
	9	21.40	A100059CT-ND	.85	19.05	60.68	500	239.90	1775470-9
	10	23.40	A100060CT-ND	.96	21.49	68.45	500	270.61	1-1775470-0
	11	25.40	A100061CT-ND	1.05	23.59	75.13	500	297.02	1-1775470-1
	12	27.40	A100062CT-ND	1.34	30.22	96.26	500	380.56	1-1775470-2
	13	29.40	A100063CT-ND	1.35	30.48	97.07	500	383.78	1-1775470-3
	14	31.40	A100064CT-ND	1.37	30.73	97.89	500	386.99	1-1775470-4
	15	33.40	A100065CT-ND	1.37	30.94	98.53	500	389.56	1-1775470-5
Vertical SMT, Latching									
5	7	17.40	A100095CT-ND	1.31	29.57	94.19	500	372.39	2041061-7
	8	19.40	A100096CT-ND	1.37	30.87	98.32	500	388.71	2041061-8
Right Angle Through Hole									
6	2	6.00	A100043-ND	.09	1.96	6.23	—	—	440055-2
	3	8.00	A100044-ND	.17	3.91	12.47	—	—	440055-3
	4	10.00	A100045-ND	.23	5.22	16.62	—	—	440055-4
	5	12.00	A100046-ND	.25	5.70	18.15	—	—	440055-5
	6	14.00	A100047-ND	.30	6.84	21.79	—	—	440055-6
	7	16.00	A100049-ND	.41	9.16	29.17	—	—	440055-7
	8	18.00	A100050-ND	.46	10.45	33.30	—	—	440055-8
	9	20.00	A100051-ND	.52	11.77	37.49	—	—	440055-9
	10	22.00	A100154-ND	.58	13.05	41.56	—	—	1-440055-0
	11	24.00	A100155-ND	.64	14.34	45.68	—	—	1-440055-1
	12	26.00	A100156-ND	.70	15.64	49.81	—	—	1-440055-2
	13	28.00	A100157-ND	.87	19.61	62.45	—	—	1-440055-3
	14	30.00	A100158-ND	.81	18.23	58.07	—	—	1-440055-4
	15	32.00	A100159-ND	.87	19.57	62.33	—	—	1-440055-5
	16	34.00	A100160-ND	.93	20.87	66.46	—	—	1-440055-6
Vertical Through Hole									
7	2	6.00	A100034-ND	.06	1.35	4.29	—	—	440054-2
	3	8.00	A100035-ND	.14	3.22	10.27	—	—	440054-3
	4	10.00	A100036-ND	.21	4.62	14.72	—	—	440054-4
	5	12.00	A100037-ND	.28	6.35	20.23	—	—	440054-5
	6	14.00	A100038-ND	.33	7.46	23.75	—	—	440054-6
	7	16.00	A100039-ND	.31	7.06	22.48	—	—	440054-7
	8	18.00	A100040-ND	.41	9.22	29.38	—	—	440054-8
	9	20.00	A100041-ND	.46	10.39	33.09	—	—	440054-9
	10	22.00	A100042-ND	.48	10.72	34.15	—	—	1-440054-0
	11	24.00	A100148-ND	.56	12.67	40.37	—	—	1-440054-1
	12	26.00	A100149-ND	.61	13.82	44.03	—	—	1-440054-2
	13	28.00	A100150-ND	.67	14.99	47.75	—	—	1-440054-3
	14	30.00	A100151-ND	.72	16.16	51.46	—	—	1-440054-4
	15	32.00	A100152-ND	.77	17.28	55.04	—	—	1-440054-5
	16	34.00	A100153-ND	.82	18.45	58.76	—	—	1-440054-6
Vertical Through Hole, Latching									
7	3	8.00	A100097-ND	.07	1.62	5.17	—	—	1735446-3
	4	10.00	A100098-ND	.09	2.06	6.56	—	—	1735446-4
	5	12.00	A100099-ND	.10	2.34	7.46	—	—	1735446-5
	6	14.00	A100100-ND	.15	3.41	10.87	—	—	1735446-6
	7	16.00	A100101-ND	.18	4.11	13.09	—	—	1735446-7
	8	18.00	A100102-ND	.17	3.78	12.03	—	—	1735446-8
	9	20.00	A100103-ND	.23	5.11	16.26	—	—	1735446-9
	10	22.00	A100104-ND	.25	5.69	18.12	—	—	1-1735446-0
	11	24.00	A100105-ND	.25	5.66	18.03	—	—	1-1735446-1
	12	26.00	A100106-ND	.30	6.72	21.41	—	—	1-1735446-2
	13	28.00	A100107-ND	.33	7.39	23.54	—	—	1-1735446-3
	14	30.00	A100108-ND	.36	7.99	25.46	—	—	1-1735446-4
	15	32.00	A100109-ND	.44	9.99	31.82	—	—	1-1735446-5
	16	34.00	A100110-ND	.50	11.28	35.92	—	—	1-1735446-6

Description	Wire Range	Digi-Key Part No.	Cut Tape Pricing			T & R† Pricing	AMP Part No.
			100	500	1,000	10,000	
2mm HPI Contact							
Receptacle	24 ~ 30 AWG	A100010CT-ND	4.51	20.65	37.55	20.28/M	440132-1
2mm HPI, Board-In Contact							
Receptacle, R/A	24 ~ 30 AWG	A100111CT-ND	3.06	14.03	25.50	13.77/M	1470200-1
Receptacle, Vertical	24 ~ 30 AWG	A100126CT-ND	2.67	12.24	22.25	12.02/M	1470202-1

† For Tape and Reel part number, change CT-ND to TR-ND.

Tyco Electronics
Authorized Distributor

NEW! AMP CT 2.0mm Connector Series

The AMP CT connectors are a miniature wire-to-board and wire-to-wire interconnect solution. The Amp CT connector series has proven performance in its harness making capability. Two types of housings are available, including Crimp and Mass Terminated (MT), which are preloaded with insulation displacement contacts. The box or shrouded headers are highly resistant to scooping at mating/unmating.

Features: • 2 kinds of termination method: IDC and Crimp • Discrete wire interconnect • AWG 22~30 • Recognized under the component program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No., LR 7189-133

Fig. 1

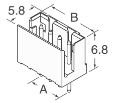

Fig. 2

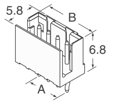

Fig. 3

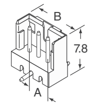

Fig. 4

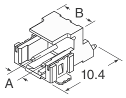

Fig. 5

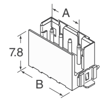

Fig. 6

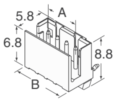

Fig. 7

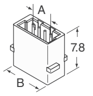

Fig. 8

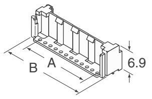

Fig. 9

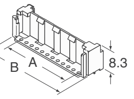

Fig.	No. of Pos.	Dimensions – mm A	B	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	AMP Part No.
				Vertical Through Hole						
1	2	2.0	5.8	A100944-ND	.48	.43	.39	—	—	292133-2
	3	4.0	7.8	A100945-ND	.36	.33	.29	—	—	292133-3
	4	6.0	9.8	A100946-ND	.40	.37	.33	—	—	292133-4
	5	8.0	11.8	A100947-ND	.41	.37	.33	—	—	292133-5
	6	10.0	13.8	A100948-ND	.41	.37	.33	—	—	292133-6
	7	12.0	15.8	A100949-ND	.67	.61	.54	—	—	292133-7
	8	14.0	17.8	A100950-ND	.81	.73	.65	—	—	292133-8
	12	22.0	25.8	A100951-ND	.90	.82	.73	—	—	1-292133-2
	14	26.0	29.8	A100952-ND	1.33	1.21	1.07	—	—	1-292133-4
2	2	2.0	5.8	A100997-ND	.62	.56	.50	—	—	292134-2
	3	4.0	7.8	A100998-ND	.69	.63	.56	—	—	292134-3
	4	6.0	9.8	A100999-ND	1.56	1.41	1.25	—	—	292134-4
	5	8.0	11.8	A101000-ND	1.69	1.52	1.35	—	—	292134-5
	6	10.0	13.8	A101001-ND	1.56	1.40	1.25	—	—	292134-6
	9	16.0	19.8	A101002-ND	2.25	2.03	1.81	—	—	292134-9
	10	18.0	21.8	A101003-ND	3.17	2.86	2.54	—	—	1-292134-0
	15	28.0	31.8	A101004-ND	3.54	3.19	2.84	—	—	1-292134-5
				Vertical SMT						
3	2	2.0	6.0	A100990-ND	.51	.46	.41	—	—	292172-2
	3	4.0	8.0	A100991-ND	.75	.68	.61	—	—	292172-3
	4	6.0	10.0	A100992-ND	.95	.86	.77	—	—	292172-4
	5	8.0	12.0	A100993-ND	1.10	1.00	.89	—	—	292172-5
	6	10.0	14.0	A100994-ND	1.47	1.33	1.18	—	—	292172-6
	7	16.0	12.0	A100995-ND	1.25	1.13	1.01	—	—	292172-7
	8	18.0	14.0	A100996-ND	3.00	2.70	2.40	—	—	292172-8
				Right Angle SMT						
4	2	2.0	5.8	A100981CT-ND†	1.08	.98	.87	500	324.32	2-292173-2
	3	4.0	7.8	A100982CT-ND†	1.20	1.09	.97	500	360.68	2-292173-3
	4	6.0	9.8	A100983CT-ND†	.96	.86	.77	500	286.65	2-292173-4
	5	8.0	11.8	A100984CT-ND†	1.09	.98	.87	500	325.80	2-292173-5
	6	10.0	13.8	A100985CT-ND†	1.60	1.45	1.29	500	480.62	2-292173-6
	7	12.0	15.8	A100986CT-ND†	1.77	1.60	1.42	500	531.84	2-292173-7
	8	14.0	17.8	A100987CT-ND†	1.54	1.39	1.24	500	462.24	2-292173-8
				Right Angle Through Hole						
5	2	2.0	5.8	A100988CT-ND†	.99	.89	.79	700	414.58	2-292175-2
	4	6.0	9.8	A100989CT-ND†	1.51	1.36	1.21	700	634.73	2-292175-4
6	2	2.0	5.8	A101005-ND	.63	.57	.51	—	—	176394-2

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	No. of Position	Dimensions – mm A	B	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
				Free Hanging				
7	2	2.0	7.8	A100970-ND	.35	.32	.29	292156-2
	3	4.0	9.8	A100971-ND	.41	.38	.34	292156-3
	4	6.0	11.8	A100972-ND	.62	.56	.50	292156-4
	5	8.0	13.8	A100973-ND	.67	.61	.54	292156-5
	6	10.0	15.8	A100974-ND	.84	.77	.68	292156-6

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	AMP Part No.
			Crimp Receptacle Connector				
2 mm Pitch, 22-26AWG	A100943CT-ND	.32	.29	.24	10,000	178.74/M	179227-4

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	No. of Position	Dimensions – mm A	B	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
				MT Holder for CT Double Row Connectors				
8	16	14.0	20.3	A100953-ND	.72	.66	.58	1-179608-6
	18	16.0	22.3	A100954-ND	.36	.33	.29	1-179608-8
	20	18.0	24.3	A100955-ND	.24	.22	.20	2-179608-0
	22	20.0	26.3	A101006-ND	.35	.32	.28	2-179608-2
	24	22.0	28.3	A100956-ND	.41	.38	.34	2-179608-4
	26	24.0	30.3	A100957-ND	.37	.34	.30	2-179608-6
	28	26.0	32.3	A100958-ND	.33	.30	.27	2-179608-8
	30	28.0	34.3	A100959-ND	.41	.37	.33	3-179608-0

Fig.	No. of Position	Dimensions – mm A	B	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
				CT Holder for CT Double Row Connectors				
9	8	6.0	12.3	A100960-ND	.37	.33	.30	179472-8
	12	10.0	16.3	A100961-ND	.20	.18	.16	1-179472-2
	16	14.0	20.3	A100962-ND	.62	.57	.50	1-179472-6
	18	16.0	22.3	A100963-ND	.38	.35	.31	1-179472-8
	20	18.0	24.3	A100964-ND	.45	.41	.36	2-179472-0
	22	20.0	26.3	A100965-ND	.49	.45	.40	2-179472-2
	24	22.0	28.3	A100966-ND	.53	.49	.43	2-179472-4
	26	24.0	30.3	A100967-ND	.58	.53	.47	2-179472-6
	28	26.0	32.3	A100968-ND	.99	.89	.79	2-179472-8
	30	28.0	34.3	A100969-ND	.68	.62	.55	3-179472-0

NEW! AMP EP 2.5mm Shrouded Headers

EP 2.5 is a smaller centerline extension to our EP product line featuring fully shrouded headers and lance-less contacts. EP 2.5 meets a growing market requirement for a positive external latch on a 2.5mm centerline.

Features:
• **Plug Housing:** Nylon, UL94V0, natural • **Contacts:** 22~26 AWG Wire • 1.3mm ~ 1.7mm Insulation Diameter • 3A Current Rating • Phosphor bronze • Tin plated • Lubed to prevent fretting corrosion • **Through-hole Vertical Shrouded Headers: Pins:** Copper alloy, tin plated • **Housings:** Nylon UL94V-0, natural

Applications: • Appliance Industry: Cooking, Refrigeration, and Dishwashers • Garage Door Openers • HVAC Controls and Thermostats • Lighting

Fig. 1

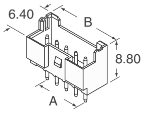

A

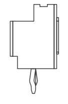

B

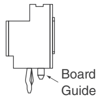

Fig. 2

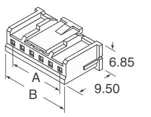

Fig.	No. of Positions	Dimensions – mm A	B	Digi-Key Part No.	Pricing 1	25	50	AMP Part No.
				Vertical Header				
1A	2	2.5	7.5	A101065-ND	.12	2.80	4.98	2132415-2
	3	5.0	10.0	A101066-ND	.14	3.05	5.42	2132415-3
	4	7.5	12.5	A101067-ND	.15	3.30	5.87	2132415-4
	5	10.0	15.0	A101068-ND	.22	4.98	8.85	2132415-5
	6	12.5	17.5	A101069-ND	.19	4.35	7.73	2132415-6
	7	15.0	20.0	A101070-ND	.28	6.27	11.14	2132415-7
	8	17.5	22.5	A101071-ND	.29	6.55	11.65	2132415-8
	9	20.0	25.0	A101072-ND	.32	7.10	12.62	2132415-9
	10	22.5	27.5	A101073-ND	.40	8.94	15.89	1-2132415-0
	11	25.0	30.0	A101074-ND	.41	9.25	16.44	1-2132415-1
	12	27.5	32.5	A101075-ND	.45	10.20	18.14	1-2132415-2
	13	30.0	35.0	A101076-ND	.48	10.83	19.25	1-2132415-3
	14	32.5	37.5	A101077-ND	.51	11.47	20.39	1-2132415-4
	15	35.0	40.0	A101078-ND	.54	12.13	21.57	1-2132415-5
	17	40.0	45.0	A101080-ND	.60	13.54	24.08	1-2132415-7
	18	42.5	47.5	A101081-ND	.63	14.25	25.34	1-2132415-8
	19	45.0	50.0	A101082-ND	.65	14.64	26.04	1-2132415-9
	20	47.5	52.5	A101083-ND	.67	15.04	26.73	2-2132415-0
1B	2	2.5	7.5	A101084-ND	.12	2.80	4.98	2132230-2
	3	5.0	10.0	A101085-ND	.14	3.05	5.42	2132230-3
	4	7.5	12.5	A101086-ND	.15	3.30	5.87	2132230-4
	5	10.0	15.0	A101087-ND	.22	4.98	8.85	2132230-5
	6	12.5	17.5	A101088-ND	.24	5.40	9.60	2132230-6
	7	15.0	20.0	A101089-ND	.21	4.62	8.21	2132230-7
	8	17.5	22.5	A101090-ND	.29	6.55	11.65	2132230-8
	9	20.0	25.0	A101091-ND	.32	7.10	12.62	2132230-9
	10	22.5	27.5	A101092-ND	.40	8.94	15.89	1-2132230-0
	11	25.0	30.0	A101093-ND	.41	9.25	16.44	1-2132230-1
	12	27.5	32.5	A101094-ND	.45	10.20	18.14	1-2132230-2
	13	30.0	35.0	A101095-ND	.48	10.83	19.25	1-2132230-3
	14	32.5	37.5	A101096-ND	.51	11.47	20.39	1-2132230-4
	15	35.0	40.0	A101097-ND	.54	12.13	21.57	1-2132230-5
	16	37.5	42.5	A101098-ND	.57	12.84	22.82	1-2132230-6
	17	40.0	45.0	A101099-ND	.60	13.54	24.08	1-2132230-7
	18	42.5	47.5	A101100-ND	.63	14.25	25.34	1-2132230-8
	19	45.0	50.0	A101101-ND	.65	14.64	26.04	1-2132230-9
	20	47.5	52.5	A101102-ND	.67	15.04	26.73	2-2132230-0
				Receptacle Housing				
2	2	2.5	5.64	A101103-ND	.06	1.45	2.57	2110992-2
	3	5.0	8.14	A101104-ND	.07	1.49	2.65	2110992-3
	4	7.5	10.64	A101105-ND	.07	1.53	2.72	2110992-4
	5	10.0	13.14	A101106-ND	.07	1.58	2.80	2110992-5
	6	12.5	15.64	A101107-ND	.08	1.69	3.01	2110992-6
	7	15.0	18.14	A101108-ND	.06	1.37	2.44	2110992-7
	8	17.5	20.64	A101109-ND	.11	2.37	4.22	2110992-8
	9	20.0	23.14	A101110-ND	.11	2.50	4.44	2110992-9
	10	22.5	25.64	A101111-ND	.12	2.60	4.62	1-2110992-0
	11	25.0	28.14	A101112-ND	.13	2.89	5.14	1-2110992-1
	12	27.5	30.64	A101113-ND	.14	3.12	5.55	1-2110992-2
	13	30.0	33.14	A101114-ND	.19	4.34	7.72	1-2110992-3
	14	32.5	35.64	A101115-ND	.20	4.58	8.13	1-2110992-4
	15	35.0	38.14	A101116-ND	.21	4.76	8.46	1-2110992-5
	16	37.5	40.64	A101117-ND	.22	4.95	8.80	1-2110992-6
	17	40.0	43.14	A101118-ND	.23	5.14	9.14	1-2110992-7
	18	42.5	45.64	A101119-ND	.24	5.33	9.47	1-2110992-8
	19	45.0	48.14	A101120-ND	.25	5.51	9.80	1-2110992-9
	20	47.5	50.64	A101121-ND	.25	5.70	10.13	2-2110992-0

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Tape and Reel‡ Qty.	Pricing	AMP Part No.
Receptacle Contact, 22-26AWG	A101122CT-ND	5.05	23.16	42.10	8,000	33.68/M	2110989-1

‡ For Tape and Reel part number, change CT-ND to TR-ND.

JST JMD Series

0.5mm Connectors

Features: • Smooth connection: The bellows type contacts, mating is very smooth • Distortion Prevention Construction: Box shaped plug housing has guide ribs on both ends which prevents distortion • Wide Range of Circuits: Number of circuits available are: 20 to 100, every 10 circuits

Specifications: • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Withstanding Voltage: 100V AC/minute • Contacts: Gold Plated

Fig. 1

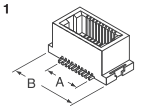

Fig. 2

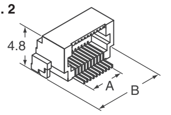

Fig. 3

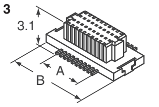

Fig.	Circuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Pricing 1,500	JST Part No.
Top Entry Plug									
4.5mm Stacking Height									
1	20	4.5	9.1	455-1874-1-ND	1.28	11.78	98.20	652.07/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	1.56	14.43	120.26	798.50/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	1.86	17.15	142.90	948.88/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	2.49	22.99	191.55	1271.91/M	60P-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	2.75	25.37	211.39	1403.62/M	70P-JMDSS-G-1-TF(LF)(SN)
	80	19.5	24.1	455-1879-1-ND	3.26	30.12	251.02	1666.74/M	80P-JMDSS-G-1-TF(LF)(SN)
	100	24.5	29.1	455-1880-1-ND	3.94	36.32	302.70	2009.92/M	100P-JMDSS-G-1-TF(LF)(SN)
5.0mm Stacking Height									
1	30	7.0	11.6	455-1881-1-ND	1.48	13.66	113.81	755.67/M	30P5.0-JMDSS-G-1-TF(LF)(SN)
6.0mm Stacking Height									
1	50	12.0	16.6	455-1883-1-ND	2.17	20.00	166.63	1106.42/M	50P6.0-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	2.63	24.24	201.99	1341.24/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	2.91	26.83	223.55	1484.36/M	70P6.0-JMDSS-G-1-TF(LF)(SN)
Side Entry Plug									
2	20	4.5	9.1	455-1886-1-ND	1.06	9.77	81.44	540.76/M	20PS-JMDSS-G-1-TF(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	1.32	12.18	101.53	674.16/M	30PS-JMDSS-G-1-TF(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	1.72	15.88	132.30	878.46/M	40PS-JMDSS-G-1-TF(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	2.13	19.67	163.96	1088.68/M	50PS-JMDSS-G-1-TF(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	2.37	21.86	182.16	1209.56/M	60PS-JMDSS-G-1-TF(LF)(SN)
	70	17.0	21.6	455-1891-1-ND	2.76	25.45	212.12	1408.45/M	70PS-JMDSS-G-1-TF(LF)(SN)
	80	19.5	24.1	455-1892-1-ND	3.93	36.30	302.51	2008.67/M	80PS-JMDSS-G-1-TF(LF)(SN)
	100	24.5	29.1	455-1893-1-ND	5.25	48.47	403.96	2682.26/M	100PS-JMDSS-G-1-TF(LF)(SN)
Receptacle									
3	20	4.5	9.1	455-1894-1-ND	1.51	13.90	115.80	768.88/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	1.66	15.32	127.71	847.96/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	2.09	19.26	160.53	1065.89/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	2.49	22.95	191.27	1270.00/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	2.77	25.56	212.99	1414.22/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1899-1-ND	3.05	28.16	234.68	1558.24/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1900-1-ND	3.16	29.18	243.14	1614.47/M	80R-JMDSS-G-1-TF(LF)(SN)
	100	24.5	29.1	455-1901-1-ND	4.35	40.13	334.40	2220.44/M	100R-JMDSS-G-1-TF(LF)(SN)

† For Tape and Reel part number, change 1-ND to 2-ND.

SUR Series 0.8mm IDC Connectors

Features: • 3 point grip construction • Super fine wires for ease in routing • Shrouded header • Twin U-slot insulation displacement section

Specifications: • Current Ratings: 0.5A AC/DC (32 AWG) • Voltage Rating: 30V DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32, 36 AWG

Fig. 1

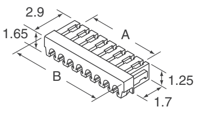

Fig. 2

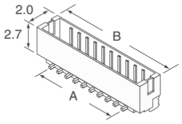

Fig. 3

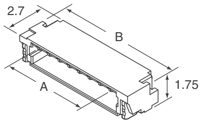

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housing								
1	2	0.8	2.4	455-2176-ND	.50	4.64	38.71	02SUR-32S
	8	5.6	7.2	455-2177-ND	1.12	10.35	86.21	08SUR-32S
	12	8.8	10.4	455-2178-ND	1.42	13.12	109.31	12SUR-32S
	14	10.4	12.0	455-2179-ND	1.62	14.95	124.61	14SUR-32S
	15	11.2	12.8	455-2180-ND	1.68	15.48	129.01	15SUR-32S
	16	12.0	13.6	455-2181-ND	1.77	16.31	135.90	16SUR-32S
	20	15.2	16.8	455-2182-ND	1.97	18.22	151.83	20SUR-32S

Fig.	Circuit	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Qty.	Tape and Reel† Pricing	JST Part No.
Headers										
Top Entry (Shrouded)										
2	20	15.2	18.2	455-2030-1-ND	1.63	15.01	125.08	2,500	830.55/M	BM20B-SURS-TF(LF)(SN)
Side Entry (Shrouded)										
3	2	0.8	3.8	455-2039-1-ND	.57	5.28	44.00	3,500	292.18/M	SM02B-SURS-TF(LF)(SN)
	8	5.6	8.6	455-2040-1-ND	1.12	10.36	86.30	3,500	573.00/M	SM08B-SURS-TF(LF)(SN)
	10	7.2	10.2	455-2041-1-ND	1.22	11.27	93.92	3,500	623.62/M	SM10B-SURS-TF(LF)(SN)
	15	11.2	14.2	455-2042-1-ND	1.60	14.78	123.19	3,500	817.95/M	SM15B-SURS-TF(LF)(SN)
	16	12.0	15.0	455-2043-1-ND	1.83	16.88	140.69	3,500	934.20/M	SM16B-SURS-TF(LF)(SN)

† For Tape and Reel part number, change 1-ND to 2-ND.

SH and SR Series

1.0mm Connectors

SH Series Features: • The World's First 1.0mm (.039") Pitch Crimp Style Connector • Ultra Compact, Low Profile Design with a mounting height of 2.95mm (.116") for side entry type Specifications: • Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC, DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: AWG #32 to #28 • Color: Natural (white)

SR Series Features: • 1.0mm (0.39") pitch and 3.0mm (.118") high (side entry type) IDC • Header designed for vacuum pick and place robotics • Twin U-slot insulation displacement section • 3 point grip construction Specifications: • Current Rating: 0.7A DC • Voltage Rating: 50V DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 AWG

Fig. 1

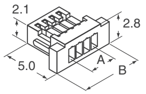

Fig. 2

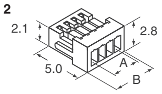

Fig. 3

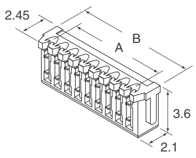

Fig. 4

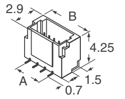

Fig. 5

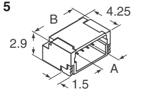

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housing								
Crimp With Protrusions								
1	2	1.0	5.0	455-1377-ND	.06	.54	4.47	SHR-02V-S-B
	3	2.0	6.0	455-1378-ND	.07	.66	5.48	SHR-03V-S-B(P)
	4	3.0	7.0	455-1379-ND	.08	.77	6.42	SHR-04V-S-B
	5	4.0	8.0	455-1380-ND	.10	.90	7.49	SHR-05V-S-B
	6	5.0	9.0	455-1381-ND	.11	.99	8.22	SHR-06V-S-B
	7	6.0	10.0	455-1382-ND	.12	1.11	9.29	SHR-07V-S-B
	8	7.0	11.0	455-1383-ND	.13	1.22	10.19	SHR-08V-S-B(P)
	9	8.0	12.0	455-1384-ND	.14	1.33	11.08	SHR-09V-S-B
	10	9.0	13.0	455-1385-ND	.16	1.44	11.98	SHR-10V-S-B(P)
	11	10.0	14.0	455-1386-ND	.17	1.55	12.88	SHR-11V-S-B
	12	11.0	15.0	455-1387-ND	.18	1.65	13.78	SHR-12V-S-B
	13	12.0	16.0	455-1388-ND	.19	1.76	14.67	SHR-13V-S-B
	14	13.0	17.0	455-1389-ND	.20	1.87	15.57	SHR-14V-S-B
	15	14.0	18.0	455-1390-ND	.21	1.98	16.47	SHR-15V-S-B
	20	19.0	23.0	455-1391-ND	.27	2.51	20.96	SHR-20V-S-B
Crimp Without Protrusions								
2	2	1.0	3.0	455-1392-ND	.06	.54	4.47	SHR-02V-S
	3	2.0	4.0	455-1393-ND	.07	.66	5.48	SHR-03V-S(P)
	4	3.0	5.0	455-1394-ND	.08	.77	6.42	SHR-04V-S
	5	4.0	6.0	455-1395-ND	.10	.90	7.49	SHR-05V-S
	6	5.0	7.0	455-1396-ND	.11	.99	8.22	SHR-06V-S
	7	6.0	8.0	455-1397-ND	.12	1.11	9.29	SHR-07V-S
	8	7.0	9.0	455-1398-ND	.13	1.22	10.19	SHR-08V-S
	9	8.0	10.0	455-1399-ND	.14	1.33	11.08	SHR-09V-S
	10	9.0	11.0	455-1400-ND	.16	1.44	11.98	SHR-10V-S
	11	10.0	12.0	455-1401-ND	.17	1.55	12.88	SHR-11V-S
	12	11.0	13.0	455-1402-ND	.18	1.65	13.78	SHR-12V-S
	14	13.0	15.0	455-1404-ND	.20	1.87	15.57	SHR-14V-S
IDC Housing								
3	2	1.0	3.0	455-2183-ND	.22	2.00	16.70	02SR-3S(P)
	3	2.0	4.0	455-2184-ND	.26	2.43	20.26	03SR-3S
	4	3.0	5.0	455-2185-ND	.31	2.86	23.82	04SR-3S
	5	4.0	6.0	455-2186-ND	.36	3.31	27.59	05SR-3S
	6	5.0	7.0	455-2187-ND	.40	3.74	31.15	06SR-3S
	7	6.0	8.0	455-2188-ND	.49	4.50	37.49	07SR-3S
	8	7.0	9.0	455-2189-ND	.54	4.94	41.20	08SR-3S
	9	8.0	10.0	455-2190-ND	.58	5.38	44.87	09SR-3S
	10	9.0	11.0	455-2191-ND	.63	5.81	48.43	10SR-3S
	11	10.0	12.0	455-2192-ND	.68	6.25	52.09	11SR-3S
	12	11.0	13.0	455-2193-ND	.91	8.36	69.64	12SR-3S
Crimp Tools								
Head Adapter SR Series				455-2301-ND		1283.61/1		IDHSR20
Pistol Grip Crimp Tool				455-1372-ND		160.49/1		IDB-12

Fig.	Circuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Tape and Reel† Qty.	Tape and Reel† Pricing	JST Part No.
Shrouded Header									
Top Entry Type									
4	2	1.0	4.0	455-1788-1-ND	.39	3.59	1,500	198.59/M	BM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1789-1-ND	.46	4.22	1,500	233.36/M	BM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1790-1-ND	.54	4.95	1,500	273.79/M	BM04B-SRSS-TB(LF)(SN)(P)
	5	4.0	7.0	455-1791-1-ND	.65	6.00	1,500	332.02/M	BM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1792-1-ND	.72	6.60	1,500	365.45/M	BM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1793-1-ND	.78	7.22	1,500	399.36/M	BM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1794-1-ND	.87	8.00	1,500	442.81/M	BM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1795-1-ND	.93	8.60	1,500	475.84/M	BM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1796-1-ND	1.00	9.23	1,500	510.60/M	BM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1797-1-ND	1.07	9.86	1,500	545.38/M	BM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1798-1-ND	1.12	10.38	1,500	574.13/M	BM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1799-1-ND	1.20	11.10	1,500	614.47/M	BM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1800-1-ND	1.32	12.18	1,500	674.20/M	BM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1801-1-ND	1.37	12.65	1,500	699.82/M	BM15B-SRSS-TB(LF)(SN)
Side Entry Type									
5	2	1.0	4.0	455-1802-1-ND	.38	3.47	3,000	192.08/M	SM02B-SRSS-TB(LF)(SN)(P)
	3	2.0	5.0	455-1803-1-ND	.45	4.13	3,000	228.57/M	SM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1804-1-ND	.51	4.75	3,000	262.93/M	SM04B-SRSS-TB(LF)(SN)(P)
	5	4.0	7.0	455-1805-1-ND	.64	5.90	3,000	326.34/M	SM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1806-1-ND	.71	6.53	3,000	361.55/M	SM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1807-1-ND	.78	7.16	3,000	396.31/M	SM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1808-1-ND	.84	7.79	3,000	431.09/M	SM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1809-1-ND	.92	8.51	3,000	471.06/M	SM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1810-1-ND	.99	9.16	3,000	506.69/M	SM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1811-1-ND	1.06	9.82	3,000	543.19/M	SM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1812-1-ND	1.12	10.33	3,000	571.33/M	SM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1813-1-ND	1.20	11.10	3,000	614.47/M	SM13B-SRSS-TB(LF)(SN)

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

JST SH and SR Series
1.0mm Connectors *(Cont.)*

Fig.	Circuits	Dim. (mm)		Digi-Key	Cut Tape Pricing		Tape and Reel†		JST
		A	B	Part No.	1	10	Qty.	Pricing	Part No.
5	14	13.0	16.0	455-1814-1-ND	1.22	11.29	3,000	624.59/M	SM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1815-1-ND	1.27	11.76	3,000	650.71/M	SM15B-SRSS-TB(LF)(SN)
	20	19.0	22.0	455-1816-1-ND	1.59	14.66	3,000	811.08/M	SM20B-SRSS-TB(LF)(SN)
Contacts - Tin Plated									
32 ~ 28 AWG				455-1561-1-ND	.06	.59	23,000	26.11/M	SSH-003T-P0.2
32 ~ 28 AWG				455-1912-1-ND	.24	2.23	1,000	123.35	MINI-SSH-003T-P0.2
Crimp Tool									
32 ~ 28 AWG				455-1376-ND	1077.21/1		—	—	WC-SH2832

† For Tape and Reel part number, change 1-ND to 2-ND.

SHD Series 1.0mm Connectors

Features: • Ultra compact double row design • Low Profile with a mounting height of 6.3mm (.248") for top entry type and 5.5mm (.217") for side entry type, and a width of 5.0mm (.197") for top entry type and 5.1mm (.201") for side entry type • Reliable Contact: The same contact can be used for the single row SH connectors • Anti-Misinsertion Feature: Ribs and grooves on the header and receptacle prevent misinsertion and distortion during mating and unmating.
Specifications: • Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 28 AWG • Color: Natural (White)

Fig. 1

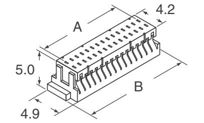

Fig. 2

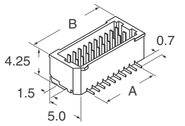

Fig. 3

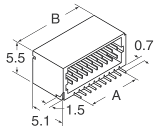

Fig. 4

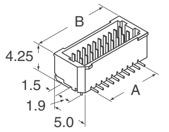

Fig.	Circuits	Dim. (mm)		Digi-Key	Cut Tape Pricing			Tape and Reel†		JST
		A	B	Part No.	1	10	100	Qty.	Pricing	Part No.
Housing										
1	20	9.0	13.0	455-1436-ND‡	.18	1.62	13.48	—	—	SHDR-20V-S-B
	30	14.0	18.0	455-1437-ND‡	.25	2.28	19.03	—	—	SHDR-30V-S-B
	40	19.0	23.0	455-1438-ND‡	.25	2.31	19.27	—	—	SHDR-40V-S-B(P)
	50	24.0	28.0	455-1439-ND‡	.26	2.39	19.94	—	—	SHDR-50V-S-B(P)
Shrouded Header										
Top Entry Type										
2	20	9.0	12.3	455-1862-1-ND	1.86	17.18	143.18	1,500	950.74/M	BM20B-SRDS-G-TF(LF)(SN)
	30	14.0	17.3	455-1863-1-ND	2.43	22.44	187.04	1,500	1241.92/M	BM30B-SRDS-G-TF(LF)(SN)
	40	19.0	22.3	455-1864-1-ND	3.05	28.19	234.94	1,500	1560.00/M	BM40B-SRDS-G-TF(LF)(SN)
	50	24.0	27.3	455-1865-1-ND	3.68	33.94	282.85	1,500	1878.11/M	BM50B-SRDS-G-TF(LF)(SN)
Side Entry Type										
3	20	9.0	13.1	455-1866-1-ND	2.04	18.87	157.23	1,250	1044.00/M	SM20B-SRDS-G-TF(LF)(SN)
	30	14.0	18.1	455-1867-1-ND	2.33	21.47	178.95	1,250	1188.25/M	SM30B-SRDS-G-TF(LF)(SN)
	40	19.0	23.1	455-1868-1-ND	2.95	27.21	226.77	1,250	1505.76/M	SM40B-SRDS-G-TF(LF)(SN)
	50	24.0	28.1	455-1869-1-ND	3.47	32.01	266.72	1,250	1771.01/M	SM50B-SRDS-G-TF(LF)(SN)
Top Entry Type with a Boss										
4	20	9.0	12.3	455-1870-1-ND	1.86	17.19	143.21	1,250	950.93/M	BM20B-SRDS-A-G-TF(LF)(SN)
	30	14.0	17.3	455-1871-1-ND	2.43	22.45	187.06	1,250	1242.08/M	BM30B-SRDS-A-G-TF(LF)(SN)
	40	19.0	22.3	455-1872-1-ND	3.05	28.20	234.97	1,250	1560.19/M	BM40B-SRDS-A-G-TF(LF)(SN)
	50	24.0	27.3	455-1873-1-ND	3.68	33.95	282.88	1,250	1878.29/M	BM50B-SRDS-A-G-TF(LF)(SN)
Contact - Gold Plated										
32 ~ 28 AWG				455-1435-1-ND	.08	.77	6.38	23,000	33.95/M	SSH-003GA-P0.2
Crimp Tool										
32 ~ 28 AWG				455-1376-ND	1077.21/1			—	—	WC-SH2832

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

ACH Series
1.20mm Connectors

Features: • Disconnectable crimp style • Compact, Low Profile with height of 1.4mm (.055"), width of 4.3mm (.169"), and 1.2mm (.047") pitch wire-to-board connector • Top entry, side feed **Specifications:** • Current Rating: 2A AC/DC (28 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 28 AWG

Fig. 1

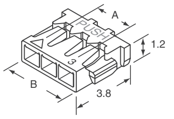

Fig. 2

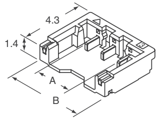

Fig.	Circuits	Dim. (mm)		Digi-Key	Cut Tape Pricing			Tape and Reel†		JST
		A	B	Part No.	1	10	100	Qty.	Pricing	Part No.
Housing										
1	2	1.2	2.6	455-2197-ND‡	.09	.87	7.27	—	—	ACHR-02V-S
	2	1.2	3.2	455-2200-ND‡	.15	1.36	11.31	—	—	ACHTP-02V-S
	2	1.2	3.2	455-2201-ND‡	.14	1.27	10.60	—	—	ACHTR-02V-S
	3	2.4	3.8	455-2198-ND‡	.10	.90	7.46	—	—	ACHR-03V-S
	4	3.6	5.0	455-2199-ND‡	.11	.97	8.12	—	—	ACHR-04V-A-S
Shrouded Header										
Top Entry — Side Feed Type										
2	2	1.2	4.2	455-2202-1-ND	.50	4.59	38.24	4,500	253.92/M	BM02B-ACHSS-GAN-TF(LF)(SN)
2	3	2.4	5.4	455-2203-1-ND	.58	5.36	44.65	4,500	296.46/M	BM03B-ACHSS-GAN-TF(LF)(SN)
	4	3.6	6.6	455-2204-1-ND	.70	6.44	53.63	4,500	356.12/M	BM04B-ACHSS-A-GAN-TF(LF)(SN)
Contacts — Gold Plated										
30 ~ 28 AWG				455-2195-1-ND	.07	.66	5.54	30,000	29.48/M	SACH-003G-P0.2
30 ~ 28 AWG				455-2196-1-ND	.07	.60	5.02	30,000	26.68/M	SACHP-003G-P0.2
30 ~ 28 AWG				455-2206-2-ND▲	—	—	—	1,000	228.23	MINI-SACH-003G-P0.2
30 ~ 28 AWG				455-2207-2-ND▲	—	—	—	1,000	228.23	MINI-SACHP-003G-P0.2
Crimp Tools										
30 ~ 28 AWG				455-2205-ND	1102.20/1			—	—	YRS-1190
Mini ACH Reel				455-2208-ND	1560.48/1			—	—	WC-ACH2830

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk ▲ Tape and Reel (not available in Cut Tape)

GH Series 1.25mm Connectors

Developed for plasma display panels, LCD monitors, notebook PCs, PDAs, mobile phones and other small electronic equipment.

Features: The innovative housing lock design achieves a locking device which is easy to handle as well as secure. The header is fully shrouded and this protects the receptacle from damage that could be caused by mating the connector at an angle.

Specifications: • Current Rating: 1.0A AC/DC (26 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: Conductor Size 30 ~ 26 AWG

Fig. 1

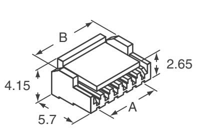

Fig. 2

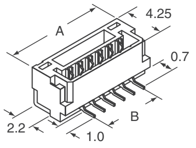

Fig. 3

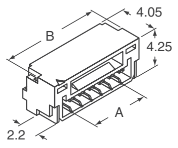

Fig.	Circuits	Dimensions (mm)		Digi-Key	Pricing			JST
		A	B	Part No.	1	10	100	Part No.
Housing								
1	2	1.25	3.75	455-1592-ND	.08	.69	5.77	GHR-02V-S
	3	2.50	5.00	455-1593-ND	.08	.73	6.09	GHR-03V-S
	4	3.75	6.25	455-1594-ND	.08	.77	6.41	GHR-04V-S
	5	5.00	7.50	455-1595-ND	.13	1.24	10.32	GHR-05V-S
	6	6.25	8.75	455-1596-ND	.14	1.26	10.51	GHR-06V-S
	7	7.50	10.00	455-1597-ND	.14	1.29	10.77	GHR-07V-S
	8	8.75	11.25	455-1598-ND	.14	1.30	10.87	GHR-08V-S
	9	10.00	12.50	455-1599-ND	.14	1.31	10.91	GHR-09V-S
	10	11.25	13.75	455-1600-ND	.14	1.32	11.02	GHR-10V-S
	11	12.50	15.00	455-1601-ND	.15	1.36	11.34	GHR-11V-S
	12	13.75	16.25	455-1602-ND	.15	1.38	11.53	GHR-12V-S
	13	15.00	17.50	455-1603-ND	.15	1.42	11.79	GHR-13V-S
	14	16.25	18.75	455-1604-ND	.16	1.44	11.98	GHR-14V-S
	15	17.50	20.00	455-1605-ND	.16	1.47	12.24	GHR-15V-S

Fig.	Circuits	Dim. (mm)		Digi-Key	Cut Tape Pricing			Tape and Reel†		JST
		A	B	Part No.	1	10	100	Qty.	Pricing	Part No.
Headers										
Top Entry										
2	2	1.25	5.75	455-1578-1-ND	.31	2.84	23.65	2,500	157.06/M	BM02B-GHS-TBT(LF)(SN)(N)
	3	2.50	7.00	455-1579-1-ND	.33	3.06	25.50	2,500	169.32/M	BM03B-GHS-TBT(LF)(SN)(N)
	4	3.75	8.25	455-1580-1-ND	.35	3.27	27.23	2,500	180.83/M	BM04B-GHS-TBT(LF)(SN)(N)
	5	5.00	9.50	455-1581-1-ND	.37	3.42	28.51	2,500	189.33/M	BM05B-GHS-TBT(LF)(SN)(N)
	6	6.25	10.75	455-1582-1-ND	.45	4.15	34.61	2,500	229.80/M	BM06B-GHS-TBT(LF)(SN)
	7	7.50	12.00	455-1583-1-ND	.47	4.34	36.21	2,500	240.42/M	BM07B-GHS-TBT(LF)(SN)(N)
	8	8.75	13.25	455-1584-1-ND	.47	4.35	36.24	2,500	240.62/M	BM08B-GHS-TBT(LF)(SN)(N)
	9	10.00	14.50	455-1585-1-ND	.51	4.70	39.16	2,500	260.01/M	BM09B-GHS-TBT(LF)(SN)
	10	11.25	15.75	455-1586-1-ND	.54	4.99	41.58	2,500	276.06/M	BM10B-GHS-TBT(LF)(SN)
	12	13.75	18.25	455-1588-1-ND	.59	5.44	45.31	2,500	300.83/M	BM12B-GHS-TBT(LF)(SN)(N)
	14	16.25	20.75	455-1590-1-ND	.63	5.81	48.45	2,500	321.68/M	BM14B-GHS-TBT(LF)(SN)
	15	17.50	22.00	455-1591-1-ND	.65	6.01	50.12	2,500	332.77/M	BM15B-GHS-TBT(LF)(SN)
Side Entry										
3	2	1.25	5.75	455-1564-1-ND	.32	2.98	24.80	2,500	164.66/M	SM02B-GHS-TB(LF)(SN)
	3	2.50	7.00	455-1565-1-ND	.34	3.16	26.34	2,500	174.87/M	SM03B-GHS-TB(LF)(SN)
	4	3.75	8.25	455-1566-1-ND	.36	3.35	27.94	2,500	185.51/M	SM04B-GHS-TB(LF)(SN)
	5	5.00	9.50	455-1567-1-ND	.38	3.53	29.41	2,500	195.27/M	SM05B-GHS-TB(LF)(SN)
	6	6.25	10.75	455-1568-1-ND	.47	4.31	35.95	2,500	238.70/M	SM06B-GHS-TB(LF)(SN)
	7	7.50	12.00	455-1569-1-ND	.49	4.48	37.36	2500	248.08/M	SM07B-GHS-TB(LF)(SN)
	8	8.75	13.25	455-1570-1-ND	.52	4.81	40.05	2,500	265.95/M	SM08B-GHS-TB(LF)(SN)
	9	10.00	14.50	455-1571-1-ND	.55	5.12	42.67	2,500	283.35/M	SM09B-GHS-TB(LF)(SN)
	10	11.25	15.75	455-1572-1-ND	.57	5.29	44.09	2,500	292.73/M	SM10B-GHS-TB(LF)(SN)
	11	12.50	17.00	455-1573-1-ND	.60	5.52	46.01	2,500	305.51/M	SM11B-GHS-TB(LF)(SN)
	12	13.75	18.25	455-1574-1-ND	.62	5.73	47.74	2,500	317.00/M	SM12B-GHS-TB(LF)(SN)
	13	15.00	19.50	455-1575-1-ND	.64	5.91	49.21	2,500	326.76/M	SM13B-GHS-TB(LF)(SN)
	14	16.25	20.75	455-1576-1-ND	.66	6.08	50.63	2,500	336.16/M	SM14B-GHS-TB(LF)(SN)
	15	17.50	22.00	455-1577-1-ND	.68	6.25	52.10	2,500	345.93/M	SM15B-GHS-TB(LF)(SN)
Contacts – Tin Plated										
30 ~ 26 AWG				455-1606-1-ND	.06	.59	4.91	23,000	26.11/M	SSHL-002T-P0.2
30 ~ 26 AWG				455-1607-1-ND	.25	2.33	19.40	1,000	155.22	MINI-SSHL-002T-P0.2
Crimp Tools										
26 ~ 30 AWG				455-1609-ND	1102.20/1			—	—	YRS-1140
Mini Reel				455-1608-ND	1579.35/1			—	—	WC-GH2630

† For Tape and Reel part number, change 1-ND to 2-ND.

JST ZE Series 1.5mm Connectors

The ZE Series wire-to-board crimp style connector was designed with a secure locking device to ensure connector mating integrity even under adverse conditions. These SMT connectors are polarized and have a positive locking feature when mating to headers as well as an audible click/tactile feedback when mated.

Specifications:
• Current Rating: 2.0A (AC/DC) • Voltage Rating: 100V (AC/DC) • Temperature Range: 25°C ~ 85°C • Housing: UL 94V-0 rated • Contacts: Phosphor bronze, tin plated

Fig. 1

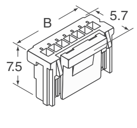

Fig. 2

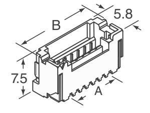

Fig. 3

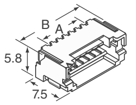

Fig.	Circuits	Dim. B (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Tape & Reel† Qty.	Pricing	JST Part No.
Receptacle Housing – Color: Natural										
1	2	5.0	455-2411-ND	.09	.79	6.55	26.21	—	—	ZER-02V-S
	3	6.3	455-2412-ND	.09	.80	6.68	26.71	—	—	ZER-03V-S
	4	7.8	455-2413-ND	.09	.87	7.27	29.08	—	—	ZER-04V-S
	5	9.3	455-2414-ND	.10	.97	8.06	32.22	—	—	ZER-05V-S
	6	10.8	455-2415-ND	.13	1.16	9.66	38.63	—	—	ZER-06V-S
	7	12.3	455-2416-ND	.14	1.31	10.92	43.68	—	—	ZER-07V-S
	8	13.8	455-2417-ND	.14	1.33	11.11	44.45	—	—	ZER-08V-S
	9	15.3	455-2418-ND	.15	1.36	11.37	45.46	—	—	ZER-09V-S
	10	16.8	455-2419-ND	.15	1.39	11.56	46.24	—	—	ZER-10V-S
	11	18.4	455-2420-ND	.15	1.41	11.75	47.01	—	—	ZER-11V-S
	12	19.8	455-2421-ND	.17	1.61	13.44	53.74	—	—	ZER-12V-S
	13	21.3	455-2422-ND	.18	1.68	14.04	56.14	—	—	ZER-13V-S
	14	22.8	455-2423-ND	.19	1.75	14.54	58.17	—	—	ZER-14V-S
	15	24.3	455-2424-ND	.20	1.85	15.42	61.69	—	—	ZER-15V-S
	16	25.8	455-2425-ND	.21	1.95	16.29	65.16	—	—	ZER-16V-S
Receptacle Contacts										
24 ~ 26AWG			455-2410-1-ND‡	.31	2.90	24.21	—	500	96.83	MINI-SZE-002T-P0.3
Crimp Tools										
Mini Reel ZE Hand Tool			455-2426-ND	1765.88/1				—	—	WC-ZE2426

Fig.	Cir-cuits	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	JST Part No.
Headers — Color: Natural										
Vertical SMT										
2	2	1.5	7.5	455-2380-1-ND	.52	.48	.40	800	255.25	BM02B-ZESS-TBT(LF)(SN)
	3	3.0	9.0	455-2381-1-ND	.59	.55	.46	800	289.36	BM03B-ZESS-TBT(LF)(SN)
	4	4.5	10.5	455-2382-1-ND	.66	.61	.51	800	323.47	BM04B-ZESS-TBT(LF)(SN)
	5	6.0	12.0	455-2383-1-ND	.72	.67	.56	800	356.38	BM05B-ZESS-TBT(LF)(SN)
	6	7.5	13.5	455-2384-1-ND	.85	.79	.66	800	419.71	BM06B-ZESS-TBT(LF)(SN)
	7	9.0	15.0	455-2385-1-ND	.93	.86	.72	800	455.44	BM07B-ZESS-TBT(LF)(SN)
	8	10.5	16.5	455-2386-1-ND	1.00	.92	.77	800	489.98	BM08B-ZESS-TBT(LF)(SN)
	9	12.0	18.0	455-2387-1-ND	1.06	.98	.82	800	520.83	BM09B-ZESS-TBT(LF)(SN)
	10	13.5	19.5	455-2388-1-ND	1.13	1.05	.88	800	557.38	BM10B-ZESS-TBT(LF)(SN)
	11	15.0	21.0	455-2389-1-ND	1.20	1.11	.93	800	589.47	BM11B-ZESS-TBT(LF)(SN)
	12	16.5	22.5	455-2390-1-ND	1.28	1.19	.99	800	630.16	BM12B-ZESS-TBT(LF)(SN)
	13	18.0	24.0	455-2391-1-ND	1.35	1.25	1.04	800	664.66	BM13B-ZESS-TBT(LF)(SN)
	14	19.5	25.5	455-2392-1-ND	1.42	1.31	1.10	800	698.78	BM14B-ZESS-TBT(LF)(SN)
	15	21.0	27.0	455-2393-1-ND	1.53	1.42	1.18	800	752.29	BM15B-ZESS-TBT(LF)(SN)
	16	22.5	28.5	455-2394-1-ND	1.60	1.48	1.24	800	787.78	BM16B-ZESS-TBT(LF)(SN)
Right Angle SMT										
3	2	1.5	7.5	455-2395-1-ND	.46	.43	.36	1,000	237.11	SM02B-ZESS-TB(LF)(SN)
	3	3.0	9.0	455-2396-1-ND	.52	.49	.41	1,000	266.10	SM03B-ZESS-TB(LF)(SN)
	4	4.5	10.5	455-2397-1-ND	.59	.55	.46	1,000	302.83	SM04B-ZESS-TB(LF)(SN)
	5	6.0	12.0	455-2398-1-ND	.63	.59	.49	1,000	322.87	SM05B-ZESS-TB(LF)(SN)
	6	7.5	13.5	455-2399-1-ND	.75	.69	.58	1,000	381.70	SM06B-ZESS-TB(LF)(SN)
	7	9.0	15.0	455-2400-1-ND	.81	.75	.62	1,000	411.53	SM07B-ZESS-TB(LF)(SN)
	8	10.5	16.5	455-2401-1-ND	.86	.80	.67	1,000	440.53	SM08B-ZESS-TB(LF)(SN)
	9	12.0	18.0	455-2402-1-ND	.92	.85	.71	1,000	468.68	SM09B-ZESS-TB(LF)(SN)
	10	13.5	19.5	455-2403-1-ND	.97	.90	.75	1,000	497.30	SM10B-ZESS-TB(LF)(SN)
	11	15.0	21.0	455-2404-1-ND	1.04	.97	.81	1,000	532.69	SM11B-ZESS-TB(LF)(SN)
	12	16.5	22.5	455-2405-1-ND	1.10	1.02	.85	1,000	560.42	SM12B-ZESS-TB(LF)(SN)
	13	18.0	24.0	455-2406-1-ND	1.15	1.07	.89	1,000	589.40	SM13B-ZESS-TB(LF)(SN)
	14	19.5	25.5	455-2407-1-ND	1.21	1.12	.94	1,000	617.95	SM14B-ZESS-TB(LF)(SN)
	15	21.0	27.0	455-2408-1-ND	1.27	1.17	.98	1,000	646.52	SM15B-ZESS-TB(LF)(SN)
	16	22.5	28.5	455-2409-1-ND	1.32	1.23	1.02	1,000	675.55	SM16B-ZESS-TB(LF)(SN)

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

ZH Series 1.5mm Connectors

Features: • This connector requires only about 45% of the installation space required by the standard JST 2.0mm connector • Contact retention lances allow visual confirmation of contact lock-in • The dimple at the center of the contact ensures positive contact and low contact resistance at all times, even when the connector is subjected to vibration or distortion.

Specifications: • Current Rating: 1.0A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 36 ~ 32AWG

Fig. 1

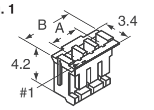

Fig. 2

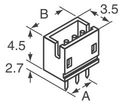

Fig. 3

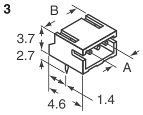

Fig. 4

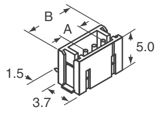

Fig. 5

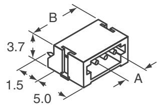

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Housing — Color: Natural White								
1	2	1.5	4.5	455-1366-ND	.05	.42	3.47	ZHR-2
	3	3.0	6.0	455-1160-ND	.05	.43	3.60	ZHR-3
	4	4.5	7.5	455-1202-ND	.06	.53	4.38	ZHR-4
	5	6.0	9.0	455-1201-ND	.06	.55	4.58	ZHR-5
	6	7.5	10.5	455-1129-ND	.10	.89	7.40	ZHR-6
	7	9.0	12.0	455-1200-ND	.11	1.05	8.76	ZHR-7
	8	10.5	13.5	455-1199-ND	.12	1.11	9.22	ZHR-8(P)
	9	12.0	15.0	455-1196-ND	.12	1.14	9.51	ZHR-9
	10	13.5	16.5	455-1197-ND	.13	1.16	9.63	ZHR-10
	11	15.0	18.0	455-1191-ND	.18	1.70	14.20	ZHR-11
	12	16.5	19.5	455-1195-ND	.19	1.73	14.38	ZHR-12
	13	18.0	21.0	455-1194-ND	.19	1.76	14.66	ZHR-13
Headers — Color: Natural Ivory								
Top Entry Thru-hole (Shrouded)								
2	2	1.5	4.5	455-1657-ND	.10	.95	7.92	B2B-ZR(LF)(SN)
	3	3.0	6.0	455-1658-ND	.13	1.23	10.28	B3B-ZR(LF)(SN)
	4	4.5	7.5	455-1659-ND	.16	1.48	12.37	B4B-ZR(LF)(SN)
	5	6.0	9.0	455-1660-ND	.19	1.76	14.66	B5B-ZR(LF)(SN)
	6	7.5	10.5	455-1661-ND	.22	2.07	17.21	B6B-ZR(LF)(SN)
	7	9.0	12.0	455-1662-ND	.28	2.57	21.40	B7B-ZR(LF)(SN)
	8	10.5	13.5	455-1663-ND	.30	2.75	22.91	B8B-ZR(LF)(SN)
	9	12.0	15.0	455-1664-ND	.34	3.18	26.51	B9B-ZR(LF)(SN)
	10	13.5	16.5	455-1665-ND	.37	3.39	28.27	B10B-ZR(LF)(SN)
	11	15.0	18.0	455-1666-ND	.48	4.40	36.65	B11B-ZR(LF)(SN)
	12	16.5	19.5	455-1667-ND	.50	4.66	38.81	B12B-ZR(LF)(SN)
	13	18.0	21.0	455-1668-ND	.51	4.72	39.30	B13B-ZR(LF)(SN)
Side Entry Thru-hole (Shrouded)								
3	2	1.5	4.5	455-1669-ND	.11	1.04	8.64	S2B-ZR(LF)(SN)
	3	3.0	6.0	455-1670-ND	.15	1.35	11.26	S3B-ZR(LF)(SN)
	4	4.5	7.5	455-1671-ND	.18	1.67	13.94	S4B-ZR(LF)(SN)
	5	6.0	9.0	455-1672-ND	.22	2.00	16.69	S5B-ZR(LF)(SN)
	6	7.5	10.5	455-1673-ND	.26	2.42	20.16	S6B-ZR(LF)(SN)
	7	9.0	12.0	455-1674-ND	.32	2.92	24.35	S7B-ZR(LF)(SN)
	8	10.5	13.5	455-1675-ND	.34	3.17	26.44	S8B-ZR(LF)(SN)
	9	12.0	15.0	455-1676-ND	.39	3.56	29.65	S9B-ZR(LF)(SN)
	10	13.5	16.5	455-1677-ND	.42	3.92	32.66	S10B-ZR(LF)(SN)
	11	15.0	18.0	455-1678-ND	.47	4.30	35.80	S11B-ZR(LF)(SN)
	12	16.5	19.5	455-1679-ND	.50	4.63	38.61	S12B-ZR(LF)(SN)
	13	18.0	21.0	455-1680-ND	.54	4.98	41.49	S13B-ZR(LF)(SN)

Fig.	Cir-cuits	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	JST Part No.
Headers										
Top Entry SMT (Shrouded)										
4	2	1.5	6.0	455-1681-1-ND	.50	4.62	38.48	1,000	255.52	B2B-ZR-SM4-TF(LF)(SN)(P)
	3	3.0	7.5	455-1682-1-ND	.56	5.17	43.06	1,000	285.94	B3B-ZR-SM4-TF(LF)(SN)(P)
	4	4.5	9.0	455-1683-1-ND	.61	5.60	46.67	1,000	309.86	B4B-ZR-SM4-TF(LF)(SN)(P)
	5	6.0	10.5	455-1684-1-ND	.67	6.20	51.64	1,000	342.87	B5B-ZR-SM4-TF(LF)(SN)(P)
	6	7.5	12.0	455-1685-1-ND	.74	6.82	56.81	1,000	377.19	B6B-ZR-SM4-TF(LF)(SN)(P)
	7	9.0	13.5	455-1686-1-ND	.79	7.26	60.47	1,000	401.54	B7B-ZR-SM4-TF(LF)(SN)(P)
	8	10.5	15.0	455-1687-1-ND	.83	7.64	63.68	1,000	422.82	B8B-ZR-SM4-TF(LF)(SN)(P)
	9	12.0	16.5	455-1688-1-ND	.87	8.07	67.28	1,000	446.71	B9B-ZR-SM4-TF(LF)(SN)
	10	13.5	18.0	455-1689-1-ND	.96	8.87	73.95	1,000	491.04	B10B-ZR-SM4-TF(LF)(SN)(P)
	11	15.0	19.5	455-1690-1-ND	1.03	9.48	78.99	1,000	524.49	B11B-ZR-SM4-TF(LF)(SN)(P)
	12	16.5	21.0	455-1691-1-ND	1.07	9.86	82.20	1,000	545.79	B12B-ZR-SM4-TF(LF)(SN)
	13	18.0	22.5	455-1692-1-ND	1.12	10.36	86.37	1,000	573.46	B13B-ZR-SM4-TF(LF)(SN)
Side Entry SMT (Shrouded)										
5	2	1.5	6.0	455-1693-1-ND	.48	4.42	36.85	1,000	244.65	S2B-ZR-SM4A-TF(LF)(SN)(P)
	3	3.0	7.5	455-1694-1-ND	.56	5.16	43.00	1,000	285.52	S3B-ZR-SM4A-TF(LF)(SN)(P)
	4	4.5	9.0	455-1695-1-ND	.60	5.58	46.53	1,000	308.94	S4B-ZR-SM4A-TF(LF)(SN)(P)
	5	6.0	9.0	455-1696-1-ND	.65	6.02	50.13	1,000	332.86	S5B-ZR-SM4A-TF(LF)(SN)
	6	7.5	10.0	455-1610-1-ND	.69	6.38	53.14	1,000	352.85	S6B-ZR-SM4A-TF(LF)(SN)(P)
	7	9.0	13.5	455-1697-1-ND	.76	6.97	58.12	1,000	385.88	S7B-ZR-SM4A-TF(LF)(SN)
	8	10.5	15.0	455-1698-1-ND	.87	7.99	66.62	1,000	442.36	S8B-ZR-SM4A-TF(LF)(SN)(P)
	9	12.0	16.5	455-1699-1-ND	.92	8.45	70.42	1,000	467.56	S9B-ZR-SM4A-TF(LF)(SN)(P)
	10	13.5	18.0	455-1700-1-ND	.95	8.74	72.84	1,000	483.66	S10B-ZR-SM4A-TF(LF)(SN)
	11	15.0	19.5	455-1701-1-ND	.94	8.64	71.99	1,000	478.00	S11B-ZR-SM4A-TF(LF)(SN)
	12	16.5	21.0	455-1702-1-ND	1.01	9.28	77.36	1,000	513.64	S12B-ZR-SM4A-TF(LF)(SN)
	13	18.0	22.5	455-1703-1-ND	1.02	9.38	78.13	1,000	518.78	S13B-ZR-SM4A-TF(LF)(SN)(P)
Contacts - Tin Plated										
28 ~ 26AWG				455-1130-1-ND	.02	.18	1.51	13,000	8.01/M	SZH-002T-P0.5
32 ~ 28AWG				455-1281-1-ND	.02	.18	1.51	16,000	8.01/M	SZH-003T-P0.5
28 ~ 26AWG				455-2275-2-ND‡	—	—	—	500	93.99	MINI-SZH-002T-P0.5
32 ~ 28AWG				455-2276-2-ND‡	—	—	—	500	93.33	MINI-SZH-003T-P0.5
Crimp Tools										
28 ~ 26AWG				455-1131-ND	466.56/1			—	—	WC-491
32 ~ 28AWG				455-1259-ND	466.56/1			—	—	WC-490
Mini ZH Reel				455-2274-ND	1679.61/1			—	—	WC-ZH2632

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tape and Reel (not available in Cut Tape)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

JST ZR Series
1.5mm Connectors

Mates with ZH Series Headers

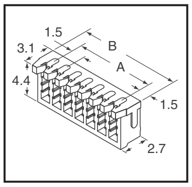

Features:

• Twin U-slot insulation displacement section • 3-point grip construction • Distortion resistant construction • Compatible with the ZH crimp style connector

Specifications:

• Current Rating: 0.7A AC, DC (AWG #28) • Voltage Rating: 50V AC, DC • Temp. Range: -25°C ~ 85°C • Insulation Resistance: 500MΩ minimum • Withstanding Voltage: 500V AC/minute • Applicable PC Board Thickness: 0.6 ~ 1.2mm (.024" ~ .047")

Circuits	Dimensions – mm A	Dimensions – mm B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
30 AWG							
2	1.5	4.5	455-2278-ND	.35	3.19	26.60	02ZR-3H-P
3	3.0	6.0	455-2279-ND	.38	3.48	28.96	03ZR-3H-P
4	4.5	7.5	455-2280-ND	.41	3.83	31.91	04ZR-3H-P
5	6.0	9.0	455-2281-ND	.45	4.16	34.66	05ZR-3H-P
6	7.5	10.5	455-2282-ND	.49	4.52	37.69	06ZR-3H-P
7	9.0	12.0	455-2283-ND	.53	4.92	41.03	07ZR-3H-P
8	10.5	13.5	455-2284-ND	.59	5.48	45.65	08ZR-3H-P
9	12.0	15.0	455-2285-ND	.60	5.55	46.24	09ZR-3H-P(P)
10	13.5	16.5	455-2286-ND	.68	6.23	51.93	10ZR-3H-P
12	16.5	19.5	455-2287-ND	.75	6.96	58.02	12ZR-3H-P
13	18.0	21.0	455-2288-ND	.78	7.19	59.92	13ZR-3H-P
28 AWG							
2	1.5	4.5	455-2289-ND	.35	3.22	26.80	02ZR-8M-P
3	3.0	6.0	455-2290-ND	.38	3.50	29.16	03ZR-8M-P
4	4.5	7.5	455-2291-ND	.42	3.85	32.10	04ZR-8M-P(P)
5	6.0	9.0	455-2292-ND	.45	4.19	34.95	05ZR-8M-P
6	7.5	10.5	455-2293-ND	.49	4.56	37.99	06ZR-8M-P
7	9.0	12.0	455-2294-ND	.51	4.68	38.99	07ZR-8M-P
8	10.5	13.5	455-2295-ND	.60	5.52	46.04	08ZR-8M-P
9	12.0	15.0	455-2296-ND	.57	5.27	43.90	09ZR-8M-P
10	13.5	16.5	455-2297-ND	.68	6.29	52.42	10ZR-8M-P
11	15.0	18.0	455-2298-ND	.75	6.88	57.33	11ZR-8M-P
12	16.5	19.5	455-2299-ND	.76	7.02	58.51	12ZR-8M-P
13	18.0	21.0	455-2300-ND	.83	7.68	64.00	13ZR-8M-P
Crimp Tools							
Head Adapter			455-1375-ND		781.50/1		IDHZR(F)20
Pistol Grip Crimp Tool			455-1372-ND		160.49/1		IDB-12

NEW! SFH Series
1.8mm Connectors

Features:

• Contact lance • Countermeasure for inverse insertion and locking feature

Specifications:

• Current Rating: 4A AC, DC (AWG #22) • Voltage Rating: 350V AC, DC • Temperature Range: -25°C ~ 85°C • Contact Resistance: 10mΩ max • Insulation Resistance: 1,000MΩ minimum • Withstanding Voltage: 1,700V AC/minute

Fig. 1

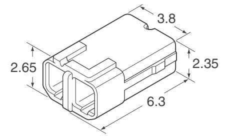

Fig. 2

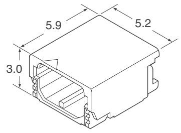

Fig.	Circuits	Color	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel Pricing† 2,000	JST Part No.
Housing								
1	2	Red	455-2520-ND	.16	1.44	12.03	—	SFHR-02V-R
		Yellow	455-2521-ND	.16	1.44	12.03	—	SFHR-02V-L
Headers								
2	2	Red	455-2524-1-ND	.55	5.06	42.16	279.96/M	SM02B-SFHRS-TF (LF)(SN)
		Yellow	455-2525-1-ND	.55	5.06	42.16	279.96/M	SM02B-SFHLS-TF (LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Tape and Reel Pricing† 15,000	JST Part No.
Contacts					
22 ~ 26 AWG, Tin-Plated	455-2522-1-ND	.03	.28	15.68/M	SSFH-001T-P0.5
26 ~ 30 AWG, Tin-Plated	455-2523-1-ND	.03	.28	15.68/M	SSFH-002T-P0.5
Crimp Tools					
22 ~ 26 AWG Contact	455-2526-ND	515.06/1		—	WC-SFH1
26 ~ 30 AWG Contact	455-2527-ND	522.14/1		—	WCSFH2

† For Tape and Reel part number, change 1-ND to 2-ND.

PA and PAL Series 2.0mm Connectors

PA Series:

Features:

• Standard type • Highly Reliable Contact: The contact supplies stable performance even under conditions of vibration, distortion, low voltage or low current • Insertion Guide Mechanism: The Header has housing insertion guides for easy and secure insertion • Flanged press pin

Specifications: • Current Rating: 3A AC/DC (AWG 22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

PAL Series:

Features:

• The industry's first wire to wire 2.0mm (.078") pitch retainer mountable type connector.

Specifications: • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable Panel Thickness: 0.5 ~ 2.0mm (.020" ~ .079")

Fig. 1

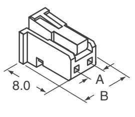

Fig. 2

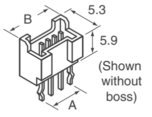

Fig. 3

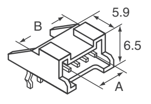

Fig. 4

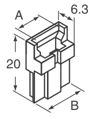

Fig.	Circuits	Dimensions – mm A	Dimensions – mm B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
PA SERIES Housing								
1	2	2.0	6.0	455-1486-ND	.09	.87	7.26	PAP-02V-S(P)
	3	4.0	8.0	455-1487-ND	.10	.91	7.57	PAP-03V-S(P)
	4	6.0	10.0	455-1488-ND	.10	.94	7.81	PAP-04V-S
	5	8.0	12.0	455-1489-ND	.13	1.16	9.66	PAP-05V-S
	6	10.0	14.0	455-1490-ND	.13	1.18	9.81	PAP-06V-S
	7	12.0	16.0	455-1491-ND	.13	1.18	9.83	PAP-07V-S
	8	14.0	18.0	455-1492-ND	.13	1.20	9.98	PAP-08V-S
Headers								
Top Entry without Boss (Shrouded)								
2	2	2.0	6.0	455-1817-ND	.18	1.69	14.12	B02B-PASK(LF)(SN)(P)
	3	4.0	8.0	455-1818-ND	.23	2.10	17.54	B03B-PASK(LF)(SN)
	4	6.0	10.0	455-1819-ND	.27	2.52	20.97	B04B-PASK(LF)(SN)
	5	8.0	12.0	455-1820-ND	.34	3.10	25.81	B05B-PASK(LF)(SN)
	6	10.0	14.0	455-1821-ND	.38	3.49	29.11	B06B-PASK(LF)(SN)
	7	12.0	16.0	455-1822-ND	.43	3.95	32.90	B07B-PASK(LF)(SN)
	8	14.0	18.0	455-1823-ND	.47	4.35	36.26	B08B-PASK(LF)(SN)
Top Entry with Boss (Shrouded)								
2	2	2.0	6.0	455-1832-ND	.18	1.69	14.12	B02B-PASK-1(LF)(SN)
	3	4.0	8.0	455-1833-ND	.23	2.10	17.54	B03B-PASK-1(LF)(SN)
	4	6.0	10.0	455-1834-ND	.27	2.52	20.97	B04B-PASK-1(LF)(SN)
	5	8.0	12.0	455-1835-ND	.34	3.10	25.81	B05B-PASK-1(LF)(SN)
	6	10.0	14.0	455-1836-ND	.38	3.49	29.11	B06B-PASK-1(LF)(SN)
	7	12.0	16.0	455-1837-ND	.43	3.95	32.90	B07B-PASK-1(LF)(SN)
	8	14.0	18.0	455-1838-ND	.47	4.35	36.26	B08B-PASK-1(LF)(SN)
Side Entry (Shrouded)								
3	2	2.0	6.0	455-1847-ND	.24	2.25	18.72	S02B-PASK-2(LF)(SN)(P)
	3	4.0	8.0	455-1848-ND	.36	3.31	27.61	S03B-PASK-2(LF)(SN)
	4	6.0	10.0	455-1849-ND	.40	3.66	30.54	S04B-PASK-2(LF)(SN)
	5	8.0	12.0	455-1850-ND	.44	4.11	34.21	S05B-PASK-2(LF)(SN)
	6	10.0	14.0	455-1851-ND	.46	4.27	35.57	S06B-PASK-2(LF)(SN)
	7	12.0	16.0	455-1852-ND	.54	4.99	41.55	S07B-PASK-2(LF)(SN)
	8	14.0	18.0	455-1853-ND	.59	5.42	45.15	S08B-PASK-2(LF)(SN)(P)

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Tape and Reel Pricing† 8,000	JST Part No.
Contacts for PA Series					
26 ~ 22 AWG, Tin-Plated	455-1325-1-ND	.03	.29	14.73/M	SPHD-001T-P0.5
28 ~ 24 AWG, Tin-Plated	455-1313-1-ND	.03	.29	14.73/M	SPHD-002T-P0.5
Crimp Tools for PA Series					
26 ~ 22 AWG Contact	455-1238-ND	524.27/1		—	WC-610
28 ~ 24 AWG Contact	455-1237-ND	925.65/1		—	YRS-620

Fig.	Circuits	Dimensions – mm A	Dimensions – mm B	Dimensions – mm C	Dimensions – mm D	Dimensions – mm E	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
PAL SERIES Housing											
Without Panel Locks											
4	2	2.0	9.4	—	—	—	455-1548-ND	.07	.68	5.69	PALR-02VF
	3	4.0	11.4	—	—	—	455-1549-ND	.08	.73	6.07	PALR-03VF
	4	6.0	13.4	—	—	—	455-1550-ND	.09	.87	7.22	PALR-04VF
	5	8.0	15.4	—	—	—	455-1551-ND	.10	.90	7.51	PALR-05VF
	6	10.0	17.4	—	—	—	455-1552-ND	.10	.94	7.85	PALR-06VF

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel Pricing† 10,000	JST Part No.
Contacts – Tin Plated for PAL Series						
22 ~ 26 AWG	455-1546-1-ND	.03	.26	2.17	11.56/M	SPAL-001T-P0.5
24 ~ 28 AWG	455-1547-1-ND	.03	.26	2.17	11.56/M	SPAL-002T-P0.5
Crimp Tool for PAL Series						
24 ~ 26 AWG, Contact only	455-1906-ND		480.87/1		—	YC-610R

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

JST PAD Series
2.0mm Connectors

Features: • Dual row construction allows high density mounting • Housing has a locking device to securely hold the header, preventing accidental disconnection due to external forces resulting from the routing of wires during assembly or due to vibration • Contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying • Header has housing insertion guides for easy and secure insertion

Specifications: • Current Rating: 3A AC/DC (AWG #22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG

Fig. 1

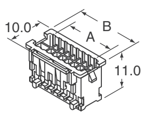

Fig. 2

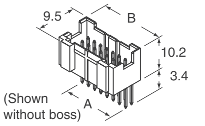

Fig. 3

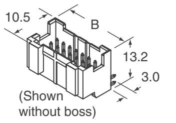

Fig.	Circuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housing								
1	10	8.0	12.0	455-2140-ND	.25	2.31	19.22	PADP-10V-1-S
	12	10.0	14.0	455-2141-ND	.25	2.35	19.55	PADP-12V-1-S
	14	12.0	16.0	455-2142-ND	.26	2.41	20.06	PADP-14V-1-S
	16	14.0	18.0	455-2143-ND	.27	2.52	20.99	PADP-16V-1-S
	20	18.0	22.0	455-2144-ND	.28	2.57	21.45	PADP-20V-1-S
	22	20.0	24.0	455-2145-ND	.28	2.61	21.74	PADP-22V-1-S
	24	22.0	26.0	455-2146-ND	.29	2.64	22.03	PADP-24V-1-S
Headers								
Top Entry With Boss (Shrouded)								
2	10	8.0	12.0	455-2001-ND	.47	4.32	36.01	B10B-PADSS-1(LF)(SN)
	12	10.0	14.0	455-2004-ND	.50	4.66	38.83	B12B-PADSS-1(LF)(SN)
	14	12.0	16.0	455-2007-ND	.60	5.50	45.85	B14B-PADSS-1(LF)(SN)
	16	14.0	18.0	455-2010-ND	.84	7.73	64.43	B16B-PADSS-1(LF)(SN)
	20	18.0	22.0	455-2013-ND	.91	8.37	69.73	B20B-PADSS-1(LF)(SN)
	22	20.0	24.0	455-2016-ND	1.01	9.37	78.04	B22B-PADSS-1(LF)(SN)
	24	22.0	26.0	455-2018-ND	1.12	10.37	86.40	B24B-PADSS-1(LF)(SN)
Top Entry Without Boss (Shrouded)								
2	10	8.0	12.0	455-2000-ND	.47	4.32	36.01	B10B-PADSS(LF)(SN)(F)
	12	10.0	14.0	455-2003-ND	.50	4.66	38.83	B12B-PADSS(LF)(SN)
	14	12.0	16.0	455-2006-ND	.60	5.50	45.85	B14B-PADSS(LF)(SN)
	16	14.0	18.0	455-2009-ND	.84	7.73	64.43	B16B-PADSS(LF)(SN)
	20	18.0	22.0	455-2012-ND	.90	8.30	69.20	B20B-PADSS(LF)(SN)
	22	20.0	24.0	455-2015-ND	1.01	9.37	78.04	B22B-PADSS(LF)(SN)
	24	22.0	26.0	455-2017-ND	1.12	10.37	86.40	B24B-PADSS(LF)(SN)
Side Entry (Shrouded)								
3	10	8.0	12.0	455-2032-ND	.54	4.97	41.42	S10B-PADSS-1(LF)(SN)
	16	14.0	18.0	455-2037-ND	.70	6.48	53.97	S16B-PADSS-1(LF)(SN)
	20	18.0	22.0	455-2038-ND	.88	8.10	67.49	S20B-PADSS-1(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	T&R Pricing‡ 8,000	JST Part No.
Contacts						
26 ~ 22 AWG, Tin Plated	455-2147-1-ND	.03	.27	2.26	13.56/M	SPH-001T-P0.5L
28 ~ 24 AWG, Tin Plated	455-2148-1-ND	.03	.27	2.26	13.56/M	SPH-002T-P0.5L
Crimp Tools						
22 ~ 26 AWG	455-2048-ND	960.57/1			—	YRS-245
24 ~ 28 AWG	455-2047-ND	1459.05/1			—	YRS-241

‡ For Tape and Reel part number, change 1-ND to 2-ND.

PND Series
2.0mm Connectors

Features: • Excellent workability • Low insertion force • Rounded edges provide easy insertion, releasing and extraction • Secure locking device prevents accidental disconnection • Mating key prevents incorrect insertion • Headers with polarizing bosses prevent incorrect assembling to PC board

Specifications: • Current Rating: 3A • Voltage Rating: 250V • Temperature Range: -25°C ~ 85°C • Contact Resistance: Initial value / 10mΩ maximum • Applicable wire: 28AWG ~ 22AWG

Fig. 1

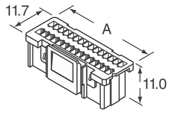

Fig. 2

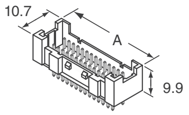

Fig.	No. of Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housings							
1	8	10.0	455-2305-ND	.18	1.65	13.75	PNDP-08V-Z
	10	12.0	455-2306-ND	.18	1.68	14.00	PNDP-10V-Z
	12	14.0	455-2307-ND	.19	1.71	14.26	PNDP-12V-Z
	14	16.0	455-2308-ND	.19	1.78	14.85	PNDP-14V-Z
	16	18.0	455-2309-ND	.20	1.88	15.69	PNDP-16V-Z
	18	20.0	455-2310-ND	.21	1.95	16.22	PNDP-18V-Z
	20	22.0	455-2311-ND	.21	1.98	16.48	PNDP-20V-Z
	22	24.0	455-2312-ND	.20	1.81	15.11	PNDP-22V-Z
	24	26.0	455-2313-ND	.22	2.06	17.20	PNDP-24V-Z
	26	28.0	455-2314-ND	.24	2.19	18.24	PNDP-26V-Z
	28	30.0	455-2315-ND	.25	2.29	19.05	PNDP-28V-Z
	30	32.0	455-2316-ND	.26	2.37	19.71	PNDP-30V-Z
	32	34.0	455-2317-ND	.29	2.69	22.42	PNDP-32V-Z

Fig.	No. of Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
1	34	36.0	455-2318-ND	.30	2.75	22.93	PNDP-34V-Z
	36	38.0	455-2319-ND	.31	2.82	23.51	PNDP-36V-Z
	38	40.0	455-2320-ND	.31	2.88	24.02	PNDP-38V-Z
	40	42.0	455-2321-ND	.34	3.10	25.82	PNDP-40V-Z
Shrouded Headers							
2	8	10.0	455-2322-ND	.34	3.13	26.11	B08B-PNDZS-1(T)(LF)(SN)
	10	12.0	455-2323-ND	.38	3.50	29.16	B10B-PNDZS-1(T)(LF)(SN)
	12	14.0	455-2324-ND	.45	4.15	34.55	B12B-PNDZS-1(T)(LF)(SN)
	14	16.0	455-2325-ND	.51	4.68	38.99	B14B-PNDZS-1(T)(LF)(SN)
	16	18.0	455-2326-ND	.55	5.11	42.58	B16B-PNDZS-1(T)(LF)(SN)
	18	20.0	455-2327-ND	.62	5.71	47.60	B18B-PNDZS-1(T)(LF)(SN)
	20	22.0	455-2328-ND	.68	6.27	52.21	B20B-PNDZS-1(T)(LF)(SN)
	22	24.0	455-2329-ND	.80	7.41	61.78	B22B-PNDZS-1(T)(LF)(SN)
	24	26.0	455-2330-ND	.86	7.96	66.37	B24B-PNDZS-1(T)(LF)(SN)
	26	28.0	455-2331-ND	.88	8.11	67.55	B26B-PNDZS-1(T)(LF)(SN)
	28	30.0	455-2332-ND	.91	8.43	70.28	B28B-PNDZS-1(T)(LF)(SN)
	30	32.0	455-2333-ND	.99	9.15	76.28	B30B-PNDZS-1(T)(LF)(SN)
	32	34.0	455-2334-ND	1.10	10.16	84.65	B32B-PNDZS-1(T)(LF)(SN)
	34	36.0	455-2335-ND	1.15	10.58	88.19	B34B-PNDZS-1(T)(LF)(SN)
	36	38.0	455-2336-ND	1.20	11.11	92.55	B36B-PNDZS-1(T)(LF)(SN)
	38	40.0	455-2337-ND	1.30	12.03	100.21	B38B-PNDZS-1(T)(LF)(SN)
	40	42.0	455-2338-ND	1.46	13.44	111.96	B40B-PNDZS-1(T)(LF)(SN)
Retainers (Not UL and CSA approved)							
—	20	—	455-2339-ND	.17	1.53	12.78	PNDS-20V-Z
	24	—	455-2340-ND	.17	1.56	13.04	PNDS-24V-Z
	34	—	455-2341-ND	.18	1.70	14.19	PNDS-34V-Z
	40	—	455-2342-ND	.24	2.26	18.82	PNDS-40V-Z

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel‡ Pricing 8,000	JST Part No.
Contacts						
Crimp Terminal, 26 ~ 22AWG	455-2303-1-ND	.03	.29	2.38	14.30/M	SPND-001T-C0.5
Crimp Terminal, 28 ~ 24AWG	455-2304-1-ND	.03	.29	2.38	14.30/M	SPND-002T-C0.5
Tools						
Crimp Tool for PND Series, 22 ~ 26AWG	455-2345-ND	559.04/1			—	WC1091
Crimp Tool for PND Series, 24 ~ 28AWG	455-2346-ND	559.04/1			—	WC-1090
Hand Crimp Tool for SPND-001T	455-2343-ND	1160.58/1			—	YRS-1091
Hand Crimp Tool for SPND-002T	455-2344-ND	1093.86/1			—	YRS-1090

‡ For Tape and Reel part number, change 1-ND to 2-ND.

JWPF Series - 2.0mm Waterproof Wire-to-Wire Connectors

Features: • Developed specifically for extreme moisture or submersion applications • Seal ring is applied for complete sealing at mating side that is contained in the tab housing which protects from dust, moisture, etc. • Solid rubber seal is used for wire side sealing that makes the size compact. • The inter-housing lock secures the plug to the receptacles and prevents accidental disconnection.

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -40°C ~ 85°C • Applicable Wire: 26 ~ 22 AWG

Material and Finish: • Tab Contact: Brass, tin-plated • Receptacle Contact: Copper alloy, tin-plated • Housing Color: Natural (white)

Fig. 1

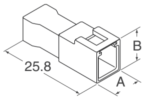

Fig. 2

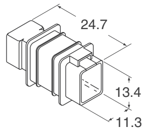

Fig. 3

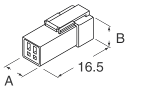

Fig. 4

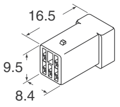

Fig. 5

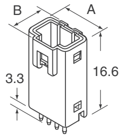

Fig.	Circuits	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Tab Housing								
1	2	7.0	8.1	455-1166-ND	1.40	12.91	107.56	02T-JWPF-VSLE-S
	3	9.0	8.1	455-1188-ND	1.55	14.33	119.41	03T-JWPF-VSLE-S
	4	11.0	8.1	455-1170-ND	1.61	14.89	124.08	04T-JWPF-VSLE-S
	8	11.0	12.1	455-1193-ND	2.08	19.23	160.24	08T-JWPF-VSLE-D
2	5	—	—	455-1190-ND†	3.10	28.64	238.64	05T-JWPF-HHLE-D
Receptacle Housing								
3	2	6.7	5.5	455-1205-ND	.67	6.19	51.58	02R-JWPF-VSLE-S
	3	8.7	5.5	455-1198-ND	.77	7.14	59.54	03R-JWPF-VSLE-S
	4	10.7	5.5	455-1203-ND	.78	7.24	60.34	04R-JWPF-VSLE-S
	8	10.7	9.5	455-1150-ND	1.05	9.72	81.01	08R-JWPF-VSLE-D
4	5	—	—	455-1192-ND†	1.71	15.82	131.82	05R-JWPF-HHLE-D
Headers								
5	2	7.0	8.1	455-1991-ND	1.79	16.54	137.85	B02B-JWPF-SK-R(LF)(SN)
	3	9.0	8.4	455-1992-ND	1.85	17.12	142.67	B03B-JWPF-SK-R(LF)(SN)
	4	11.0	8.4	455-1993-ND	2.20	20.28	168.98	B04B-JWPF-SK-R(LF)(SN)

† Housing Color: Gray

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel‡ Pricing 8,200	JST Part No.
Contacts						
26 ~ 22 AWG, Tab Contact	455-1320-1-ND	.05	.51	4.21	25.28/M	SWPT-001T-025
26 ~ 22 AWG, Receptacle Contact	455-1321-1-ND	.07	.62	5.15	30.92/M	SWPR-001T-P025
Tools						
Production Crimp Tool	455-1370-ND	1128.86/1			—	YRS-980
Crimp Tool for 26 ~ 22 AWG Contacts	455-1371-ND	466.56/1			—	WC-JWPF
Extraction Tool	455-2277-ND	193.37/1			—	EJ-JWPF

‡ For Tape and Reel part number, change 1-ND to 2-ND.

JST PH Series

2.0mm Connectors

Features: • Contact has long dimples near the center to ensure a good connection at all times • Square post is copper-undercoated and tin/lead-plated for superior solderability and for whisker prevention • This connector is also available in a surface mount configuration. Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering.

Specifications: • Current Rating: 2A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 24 AWG • Color: Natural (White)

Fig. 1

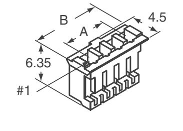

Fig. 2

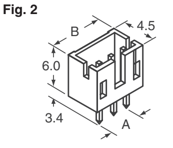

Fig. 3

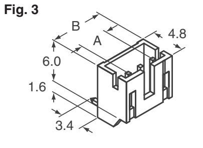

Fig. 4

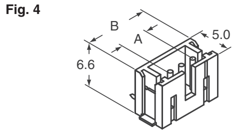

Fig. 5

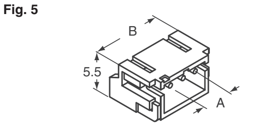

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	10	100	T & R◊ Pricing 1,000	JST Part No.
Receptacle Housing									
1	2	2.0	5.8	455-1165-ND	.05	.48	4.03	—	PHR-2
	3	4.0	7.8	455-1126-ND	.05	.49	4.12	—	PHR-3
	4	6.0	9.8	455-1164-ND	.07	.60	5.01	—	PHR-4
	5	8.0	11.8	455-1163-ND	.07	.62	5.21	—	PHR-5
	6	10.0	13.8	455-1162-ND	.07	.68	5.69	—	PHR-6
	7	12.0	15.8	455-1161-ND	.09	.87	7.26	—	PHR-7
	8	14.0	17.8	455-1189-ND	.10	.91	7.56	—	PHR-8
	9	16.0	19.8	455-1159-ND	.10	.92	7.66	—	PHR-9
	10	18.0	21.8	455-1151-ND	.11	.99	8.25	—	PHR-10
	11	20.0	23.8	455-1157-ND	.19	1.77	14.73	—	PHR-11
	12	22.0	25.8	455-1156-ND	.21	1.92	16.00	—	PHR-12
	13	24.0	27.8	455-1155-ND	.22	2.04	16.99	—	PHR-13
	14	26.0	29.8	455-1154-ND	.25	2.27	18.95	—	PHR-14
	15	28.0	31.8	455-1153-ND	.26	2.36	19.64	—	PHR-15
	16	30.0	33.8	455-1152-ND	.34	3.15	26.21	—	PHR-16
Headers									
Top Entry Thru-hole (Shrouded)									
2	2	2.0	5.9	455-1704-ND	.10	.95	7.94	—	B2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1705-ND	.14	1.34	11.15	—	B3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1706-ND	.18	1.67	13.90	—	B4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1707-ND	.23	2.16	17.99	—	B5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1708-ND	.27	2.47	20.58	—	B6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1709-ND	.32	2.91	24.27	—	B7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1710-ND	.35	3.19	26.54	—	B8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1711-ND	.39	3.60	30.00	—	B9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1712-ND	.43	3.93	32.75	—	B10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1713-ND	.46	4.24	35.34	—	B11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1714-ND	.50	4.57	38.09	—	B12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1715-ND	.55	5.04	42.02	—	B13B-PH-K-S(LF)(SN)(P)
	14	26.0	29.9	455-1716-ND	.59	5.44	45.32	—	B14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1717-ND	.63	5.80	48.30	—	B15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1718-ND	.71	6.59	54.89	—	B16B-PH-K-S(LF)(SN)
Side Entry Thru-hole (Shrouded)									
3	2	2.0	5.9	455-1719-ND	.10	.94	7.85	—	S2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1720-ND	.13	1.24	10.37	—	S3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1721-ND	.17	1.53	12.73	—	S4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1722-ND	.20	1.88	15.63	—	S5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1723-ND	.24	2.24	18.69	—	S6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1724-ND	.27	2.50	20.81	—	S7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1725-ND	.32	2.92	24.35	—	S8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1726-ND	.35	3.25	27.10	—	S9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1727-ND	.39	3.62	30.16	—	S10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1728-ND	.42	3.91	32.59	—	S11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1729-ND	.49	4.49	37.38	—	S12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1730-ND	.52	4.77	39.77	—	S13B-PH-K-S(LF)(SN)
	14	26.0	29.9	455-1731-ND	.54	5.00	41.70	—	S14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1732-ND	.58	5.31	44.25	—	S15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1733-ND	.71	6.58	54.82	—	S16B-PH-K-S(LF)(SN)
Top Entry SMT (Shrouded)									
4	2	2.0	7.95	455-1734-1-ND	.47	4.34	36.21	240.42	B2B-PH-SM4-TB(LF)(SN)(P)
	3	4.0	9.95	455-1735-1-ND	.54	4.97	41.39	274.81	B3B-PH-SM4-TB(LF)(SN)(P)
	4	6.0	11.95	455-1736-1-ND	.68	6.27	52.22	346.76	B4B-PH-SM4-TB(LF)(SN)(P)
	5	8.0	13.95	455-1737-1-ND	.73	6.77	56.39	374.41	B5B-PH-SM4-TB(LF)(SN)
	6	10.0	15.95	455-1738-1-ND	.80	7.34	61.18	406.22	B6B-PH-SM4-TB(LF)SN)
	7	12.0	17.95	455-1739-1-ND	.88	8.13	67.78	450.03	B7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.95	455-1740-1-ND	.94	8.68	72.33	480.27	B8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.95	455-1741-1-ND	1.01	9.32	77.67	515.73	B9B-PH-SM4-TB(LF)(SN)
	10	18.0	23.95	455-1742-1-ND	1.20	11.08	92.36	613.25	B10B-PH-SM4-TB(LF)(SN)
	11	20.0	25.95	455-1743-1-ND	1.28	11.79	98.24	652.33	B11B-PH-SM4-TB(LF)(SN)
	12	22.0	27.95	455-1744-1-ND	1.33	12.32	102.64	681.55	B12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.95	455-1745-1-ND	1.38	12.71	105.94	703.46	B13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.95	455-1746-1-ND	1.42	13.11	109.24	725.35	B14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.95	455-1747-1-ND	1.46	13.50	112.54	747.25	B15B-PH-SM4-TB(LF)(SN)
	16	30.0	35.95	455-1748-1-ND	1.51	13.90	115.84	769.16	B16B-PH-SM4-TB(LF)(SN)
Side Entry SMT (Shrouded)									
5	2	2.0	7.9	455-1749-1-ND	.50	4.57	38.09	252.90	S2B-PH-SM4-TB(LF)(SN)
	3	4.0	9.9	455-1750-1-ND	.58	5.37	44.77	297.24	S3B-PH-SM4-TB(LF)(SN)
	4	6.0	11.9	455-1751-1-ND	.67	6.20	51.68	343.12	S4B-PH-SM4-TB(LF)(SN)
5	5	8.0	13.9	455-1752-1-ND	.70	6.48	54.03	358.76	S5B-PH-SM4-TB(LF)(SN)(P)
	6	10.0	15.9	455-1753-1-ND	.84	7.75	64.56	428.65	S6B-PH-SM4-TB(LF)(SN)
	7	12.0	17.9	455-1754-1-ND	.85	7.84	65.34	433.84	S7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.9	455-1755-1-ND	.91	8.41	70.08	465.31	S8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.9	455-1756-1-ND	1.04	9.63	80.26	532.93	S9B-PH-SM4-TB(LF)(SN)
	10	18.0	23.9	455-1757-1-ND	1.20	11.11	92.59	614.81	S10B-PH-SM4-TB(LF)(SN)
	12	22.0	27.9	455-1758-1-ND	1.32	12.18	101.46	673.71	S12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.9	455-1759-1-ND	1.38	12.72	106.02	703.96	S13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.9	455-1760-1-ND	1.41	13.03	108.61	721.19	S14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.9	455-1761-1-ND	1.45	13.34	111.20	738.38	S15B-PH-SM4-TB(LF)(SN)

◊ For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing	JST Part No.
Contacts-Tin Plated							
30 ~ 24 AWG	455-1127-1-ND	.03	.28	2.35	8,000	14.12/M	SPH-002T-P0.5S
32 ~ 28 AWG	455-1318-1-ND	.03	.27	2.26	10,000	12.03/M	SPH-004T-P0.5S
Crimp Tools							
30 ~ 24 AWG	455-1128-ND	466.56	—	—	—	—	WC-240
32 ~ 28 AWG	455-1236-ND	925.65	—	—	—	—	YRS-243

◊ For Tape and Reel part number, change 1-ND to 2-ND.

PHD Series

2.0mm Connectors

Features: • This compact design meets the demand for high-density connection • The box contact supplies stable contact performance

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG

Fig. 1

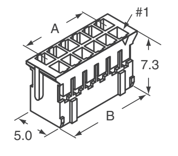

Fig. 2

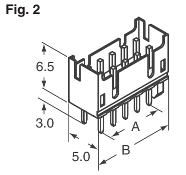

Fig. 3

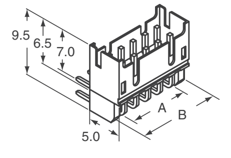

Fig.	Circuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Housing — Color: Natural White								
1	8	6.0	9.9	455-2265-ND	.26	2.41	20.09	PHDR-08VS
	10	8.0	11.9	455-1158-ND	.27	2.51	20.88	PHDR-10VS
	12	10.0	13.9	455-1204-ND	.26	2.41	20.07	PHDR-12VS
	14	12.0	15.9	455-1172-ND	.28	2.58	21.54	PHDR-14VS
	16	14.0	17.9	455-1173-ND	.30	2.76	23.04	PHDR-16VS
	18	16.0	19.9	455-1905-ND	.30	2.80	23.30	PHDR-18VS
	20	18.0	21.9	455-1174-ND	.31	2.83	23.56	PHDR-20VS
	22	20.0	23.9	455-1175-ND	.53	4.90	40.84	PHDR-22VS
	24	22.0	25.9	455-1177-ND	.54	4.94	41.17	PHDR-24VS
	26	24.0	27.9	455-1178-ND	.54	4.99	41.62	PHDR-26VS
	28	26.0	29.9	455-1171-ND	.55	5.03	41.95	PHDR-28VS
	30	28.0	31.9	455-1180-ND	.55	5.10	42.48	PHDR-30VS
	32	30.0	33.9	455-1179-ND	.56	5.14	42.87	PHDR-32VS
	34	32.0	35.9	455-1182-ND	.56	5.19	43.26	PHDR-34VS
Headers — Color: Natural Ivory								
Top Entry (Shrouded)								
2	8	6.0	9.9	455-2230-ND	.35	3.27	27.25	B8B-PHDSS(LF)(SN)(P)
	10	8.0	11.9	455-1762-ND	.38	3.53	29.43	B10B-PHDSS(LF)(SN)(P)
	12	10.0	13.9	455-1763-ND	.42	3.89	32.43	B12B-PHDSS(LF)(SN)
	14	12.0	15.9	455-1764-ND	.53	4.89	40.72	B14B-PHDSS(LF)(SN)(P)
	16	14.0	17.9	455-1765-ND	.57	5.28	43.96	B16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1766-ND	.60	5.55	46.22	B18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1767-ND	.65	6.02	50.21	B20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1768-ND	.83	7.68	63.99	B22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1769-ND	.90	8.33	69.42	B24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1770-ND	.94	8.68	72.33	B26B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1772-ND	1.03	9.48	79.03	B30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1773-ND	1.07	9.87	82.29	B32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1774-ND	1.10	10.20	84.96	B34B-PHDSS(LF)(SN)
Side Entry (Shrouded)								
3	8	6.0	9.9	455-2256-ND	.35	3.25	27.04	S8B-PHDSS(LF)(SN)(P)
	10	8.0	11.9	455-1775-ND	.42	3.85	32.08	S10B-PHDSS(LF)(SN)(P)
	12	10.0	13.9	455-1776-ND	.49	4.51	37.58	S12B-PHDSS(LF)(SN)(P)
	14	12.0	15.9	455-1777-ND	.58	5.34	44.47	S14B-PHDSS(LF)(SN)(P)
	16	14.0	17.9	455-1778-ND	.60	5.52	45.98	S16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1779-ND	.66	6.11	50.93	S18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1780-ND	.72	6.66	55.47	S20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1781-ND	.91	8.37	69.73	S22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1782-ND	.98	9.08	75.71	S24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1783-ND	1.03	9.51	79.27	S26B-PHDSS(LF)(SN)
	28	26.0	29.9	455-1784-ND	1.06	9.82	81.81	S28B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1785-ND	1.13	10.40	86.70	S30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1786-ND	1.18	10.85	90.39	S32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1787-ND	1.22	11.26	93.83	S34B-PHDSS(LF)(SN)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

JST PHD Series 2.0mm Connectors *(Cont.)*

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape & Reel Pricing◊ 8,000	JST Part No.
Contacts-Tin Plated					
26 ~ 22 AWG	455-1325-1-ND	.03	.29	14.73/M	SPHD-001T-P0.5
28 ~ 24 AWG	455-1313-1-ND	.03	.29	14.73/M	SPHD-002T-P0.5
Crimp Tools					
26 ~ 22 AWG Contacts	455-1238-ND	524.27/1		—	WC-610
28 ~ 24 AWG Contacts	455-1237-ND	925.65/1		—	YRS-620

◊ For Tape and Reel part number, change 1-ND to 2-ND.

PUD Series

2.0mm Connectors

The PUD Series offers compact size and provides stable contact performance under high vibration, distortion, and unexpected external forces. The leaf spring structure of the contact is designed to help prevent deformation due to unexpected forces. The housing receptacles are keyed to prevent accidental reverse mating or mating to a header without the same number of circuits. The header is designed with a secure locking device for applications that require high reliability under adverse conditions. An audible click is heard when mating the receptacle housing with the header.

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 26 ~ 22 AWG (001 Type) 28 ~ 24 AWG (002 Type) • Insulation Diameter: ϕ1.0 ~ ϕ1.5mm (001 Type) ϕ0.8 ~ ϕ1.5mm (002 Type)

Material and Finish: • Contact: Copper alloy, tin-plated • Housing: Nylon 66, UL94V-0

Fig. 1

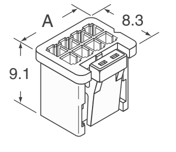

Fig. 2

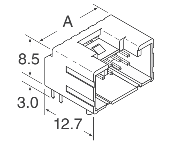

Fig. 3

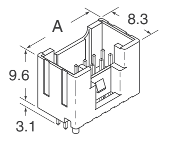

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Receptacle Housing							
1	8	10.0	455-2468-ND	.32	2.99	24.92	PUDP-08V-S
	10	12.0	455-2469-ND	.34	3.10	25.81	PUDP-10V-S
	12	14.0	455-2470-ND	.35	3.19	26.61	PUDP-12V-S
	14	16.0	455-2471-ND	.36	3.30	27.51	PUDP-14V-S
	16	18.0	455-2472-ND	.38	3.47	28.88	PUDP-16V-S
	18	20.0	455-2473-ND	.38	3.51	29.22	PUDP-18V-S
	20	22.0	455-2474-ND	.40	3.72	30.99	PUDP-20V-S
	22	24.0	455-2475-ND	.42	3.85	32.11	PUDP-22V-S
	24	26.0	455-2476-ND	.44	4.02	33.49	PUDP-24V-S
	26	28.0	455-2477-ND	.46	4.29	35.71	PUDP-26V-S
	28	30.0	455-2478-ND	.47	4.29	35.79	PUDP-28V-S
	30	32.0	455-2479-ND	.47	4.32	36.02	PUDP-30V-S
	32	34.0	455-2480-ND	.48	4.39	36.62	PUDP-32V-S
	34	36.0	455-2481-ND	.49	4.48	37.36	PUDP-34V-S
	36	38.0	455-2482-ND	.50	4.64	38.63	PUDP-36V-S
	38	40.0	455-2483-ND	.51	4.75	39.57	PUDP-38V-S
	40	42.0	455-2484-ND	.53	4.88	40.68	PUDP-40V-S
Headers							
Side Entry							
2	8	10.0	455-2485-ND	.40	3.69	30.78	S08B-PUDSS-1(LF)(SN)
	10	12.0	455-2486-ND	.50	4.66	38.80	S10B-PUDSS-1(LF)(SN)
	12	14.0	455-2487-ND	.61	5.63	46.91	S12B-PUDSS-1(LF)(SN)
	14	16.0	455-2488-ND	.70	6.43	53.55	S14B-PUDSS-1(LF)(SN)
	16	18.0	455-2489-ND	.73	6.69	55.78	S16B-PUDSS-1(LF)(SN)
	18	20.0	455-2490-ND	.76	7.04	58.64	S18B-PUDSS-1(LF)(SN)
	20	22.0	455-2491-ND	.80	7.38	61.47	S20B-PUDSS-1(LF)(SN)
	22	24.0	455-2492-ND	.85	7.88	65.64	S22B-PUDSS-1(LF)(SN)
	24	26.0	455-2493-ND	.90	8.35	69.61	S24B-PUDSS-1(LF)(SN)
	26	28.0	455-2494-ND	.96	8.83	73.57	S26B-PUDSS-1(LF)(SN)
	28	30.0	455-2495-ND	1.02	9.43	78.56	S28B-PUDSS-1(LF)(SN)
	30	32.0	455-2496-ND	1.22	11.22	93.48	S30B-PUDSS-1(LF)(SN)
	36	38.0	455-2497-ND	1.29	11.86	98.85	S36B-PUDSS-1(LF)(SN)
	40	42.0	455-2498-ND	1.43	13.18	109.84	S40B-PUDSS-1(LF)(SN)
Top Entry With Boss							
3	8	10.0	455-2499-ND	.36	3.36	28.04	B08B-PUDSS-1(LF)(SN)
	10	12.0	455-2500-ND	.40	3.67	30.56	B10B-PUDSS-1(LF)(SN)
	12	14.0	455-2501-ND	.48	4.41	36.76	B12B-PUDSS-1(LF)(SN)
	14	16.0	455-2502-ND	.57	5.31	44.23	B14B-PUDSS-1(LF)(SN)
	16	18.0	455-2503-ND	.62	5.73	47.76	B16B-PUDSS-1(LF)(SN)
	18	20.0	455-2504-ND	.69	6.35	52.95	B18B-PUDSS-1(LF)(SN)
	20	22.0	455-2505-ND	.77	7.07	58.88	B20B-PUDSS-1(LF)(SN)
	22	24.0	455-2506-ND	.86	7.95	66.22	B22B-PUDSS-1(LF)(SN)
	24	26.0	455-2507-ND	.96	8.83	73.62	B24B-PUDSS-1(LF)(SN)
	26	28.0	455-2508-ND	1.03	9.50	79.20	B26B-PUDSS-1(LF)(SN)
	28	30.0	455-2509-ND	1.07	9.88	82.30	B28B-PUDSS-1(LF)(SN)
	30	32.0	455-2510-ND	1.12	10.32	86.03	B30B-PUDSS-1(LF)(SN)
	32	34.0	455-2511-ND	1.17	10.76	89.66	B32B-PUDSS-1(LF)(SN)
	34	36.0	455-2512-ND	1.23	11.38	94.87	B34B-PUDSS-1(LF)(SN)
	36	38.0	455-2513-ND	1.26	11.59	96.59	B36B-PUDSS-1(LF)(SN)
	38	40.0	455-2514-ND	1.27	11.76	98.02	B38B-PUDSS-1(LF)(SN)
	40	42.0	455-2515-ND	1.28	11.85	98.76	B40B-PUDSS-1(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape & Reel Pricing◊ 8,000	JST Part No.
Contacts-Tin Plated					
26 ~ 22 AWG	455-2518-1-ND	.04	.32	16.22/M	SPUD-001T-P0.5
28 ~ 24 AWG	455-2519-1-ND	.04	.32	16.22/M	SPUD-002T-P0.5
Crimp Tools					
Hand Tool for SPUD-001T-P0.5	455-2516-ND	1211.05/1		—	WC-PUD1
Hand Tool for SPUD-002T-P0.5	455-2517-ND	1142.54/1		—	WC-PUD2

◊ For Tape and Reel part number, change 1-ND to 2-ND.

EH Series

2.5mm Connectors

Features: • Compact and Slim: This connector is designed to be compact and unusually thin. It measures only 8.1mm (.319") high after mounting and is just 3.8mm (.150") wide. • Highly Reliable Contact: The contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying. • Polarizing Guides: The header and housing have guides to prevent improper mating. • Whisker Prevention: The contact material is treated with a reflow process, and the square post is copper-undercoated and tin/lead-plated for whisker prevention. • Easy and Effective Crimping: Although the contact is compact, it has a long wire strip length, 2.6 ±0.4mm (.102" ±.016"). This long length is very useful for automatic crimping and when crimping shielded wires.

Specifications: • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 22 AWG

Material and Finish: • Contact: Phosphor bronze, tin-plated • Housing: Nylon 66, UL94V-0, natural (white) • Posts for Headers: Brass, copper-undercoated, tin/lead plated • Wafer: Nylon 66, UL94V-0, natural (white)

Applicable PC Board Thickness: 0.8mm ~ 1.6mm (.031" ~ .063")

Fig. 1

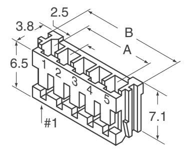

Fig. 2

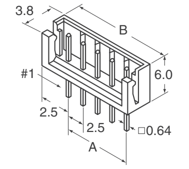

Fig. 3

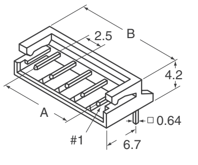

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Disconnectable Crimp Style Female Receptacle Housing								
1	2	2.5	7.0	455-1000-ND	.05	.44	3.69	EHR-2
	3	5.0	9.5	455-1001-ND	.05	.49	4.08	EHR-3
	4	7.5	12.0	455-1002-ND	.05	.50	4.16	EHR-4
	5	10.0	14.5	455-1003-ND	.06	.56	4.63	EHR-5
	6	12.5	17.0	455-1004-ND	.07	.60	5.03	EHR-6
	7	15.0	19.5	455-1005-ND	.08	.70	5.81	EHR-7
	8	17.5	22.0	455-1006-ND	.08	.73	6.05	EHR-8
	9	20.0	24.5	455-1007-ND	.11	1.04	8.64	EHR-9
	10	22.5	27.0	455-1008-ND	.12	1.09	9.11	EHR-10
	11	25.0	29.5	455-1009-ND	.15	1.36	11.31	EHR-11
	12	27.5	32.0	455-1010-ND	.18	1.64	13.67	EHR-12
	13	30.0	34.5	455-1011-ND	.19	1.73	14.45	EHR-13
	14	32.5	37.0	455-1012-ND	.24	2.21	18.38	EHR-14
	15	35.0	39.5	455-1013-ND	.25	2.27	18.93	EHR-15
Top Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing - Not TUV approved)								
2	2	2.5	7.5	455-1611-ND	.08	.77	6.41	B2B-EH-A(LF)(SN)
	3	5.0	10.0	455-1612-ND	.11	1.04	8.70	B3B-EH-A(LF)(SN)
	4	7.5	12.5	455-1613-ND	.15	1.37	11.45	B4B-EH-A(LF)(SN)
	5	10.0	15.0	455-1614-ND	.18	1.64	13.68	B5B-EH-A(LF)(SN)
	6	12.5	17.5	455-1615-ND	.21	1.97	16.43	B6B-EH-A(LF)(SN)
	7	15.0	20.0	455-1616-ND	.24	2.24	18.65	B7B-EH-A(LF)(SN)
	8	17.5	22.5	455-1617-ND	.27	2.54	21.14	B8B-EH-A(LF)(SN)
	9	20.0	25.0	455-1618-ND	.31	2.82	23.50	B9B-EH-A(LF)(SN)
	10	22.5	27.5	455-1619-ND	.36	3.28	27.36	B10B-EH-A(LF)(SN)
	11	25.0	30.0	455-1620-ND	.39	3.62	30.17	B11B-EH-A(LF)(SN)
	12	27.5	32.5	455-1621-ND	.41	3.77	31.42	B12B-EH-A(LF)(SN)
	13	30.0	35.0	455-1622-ND	.48	4.47	37.24	B13B-EH-A(LF)(SN)
	14	32.5	37.5	455-1623-ND	.52	4.84	40.31	B14B-EH-A(LF)(SN)
	15	35.0	40.0	455-1624-ND	.55	5.10	42.54	B15B-EH-A(LF)(SN)
Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing)								
3	2	2.5	7.5	455-1625-ND	.10	.92	7.66	S2B-EH(LF)(SN)
	3	5.0	10.0	455-1626-ND	.12	1.10	9.16	S3B-EH(LF)(SN)
	4	7.5	12.5	455-1627-ND	.14	1.30	10.86	S4B-EH(LF)(SN)
	5	10.0	15.0	455-1628-ND	.18	1.70	14.20	S5B-EH(LF)(SN)
	6	12.5	17.5	455-1629-ND	.23	2.12	17.67	S6B-EH(LF)(SN)
	7	15.0	20.0	455-1630-ND	.27	2.51	20.94	S7B-EH(LF)(SN)
	8	17.5	22.5	455-1631-ND	.32	2.95	24.54	S8B-EH(LF)(SN)
	9	20.0	25.0	455-1632-ND	.34	3.14	26.18	S9B-EH(LF)(SN)
	10	22.5	27.5	455-1633-ND	.42	3.89	32.40	S10B-EH(LF)(SN)
	11	25.0	30.0	455-1634-ND	.46	4.29	35.73	S11B-EH(LF)(SN)
	12	27.5	32.5	455-1635-ND	.49	4.54	37.83	S12B-EH(LF)(SN)
	14	32.5	37.5	455-1637-ND	.64	5.95	49.61	S14B-EH(LF)(SN)
	15	35.0	40.0	455-1638-ND	.69	6.41	53.40	S15B-EH(LF)(SN)

(Continued)

JST EH Series 2.0mm Connectors *(Cont.)*

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	T&R Pricing◊ 9,000	JST Part No.
Contact					
30 ~ 22 AWG	455-1042-1-ND	.03	.26	12.96/M	SEH-001T-P0.6
Crimp Tool					
30 ~ 22 AWG Contacts	455-1043-ND	481.40/1		—	WC-260

◊ For Tape and Reel part number, change 1-ND to 2-ND.

XH Series

2.5mm Connectors

The XH connector was developed based on the high reliability and versatility of the NH series connectors. The connector is very small with a mounting height of 9.8mm (.386").

Specifications: • Current Rating: 3A AC/DC (AWG #22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

Fig. 1

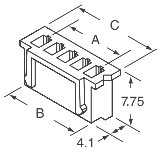

Fig. 2

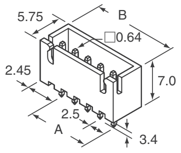

Fig. 3

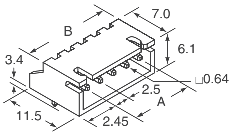

Fig. 4

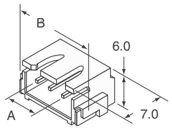

Fig.	Circuits	Dimension - mm A	Dimension - mm B	Dimension - mm C	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housing									
1	1	—	3.2	4.8	455-2220-ND	.23	2.09	17.43	XHP-1
	2	2.5	5.7	7.3	455-2266-ND	.06	.54	4.52	XHP-2
	3	5.0	8.2	9.8	455-2219-ND	.07	.60	5.01	XHP-3
	4	7.5	10.7	12.3	455-2267-ND	.07	.60	5.01	XHP-4
	5	10.0	13.2	14.8	455-2268-ND	.07	.67	5.60	XHP-5
	6	12.5	15.7	17.3	455-2218-ND	.09	.79	6.58	XHP-6
	7	15.0	18.2	19.8	455-2269-ND	.09	.83	6.88	XHP-7
	8	17.5	20.7	22.3	455-1902-ND	.10	.91	7.56	XHP-8
	9	20.0	23.2	24.8	455-2217-ND	.14	1.27	10.60	XHP-9
	10	22.5	25.7	27.3	455-2210-ND	.14	1.28	10.70	XHP-10
	11	25.0	28.2	29.8	455-2216-ND	.18	1.67	13.94	XHP-11
	12	27.5	30.7	32.3	455-2215-ND	.19	1.77	14.73	XHP-12
	13	30.0	33.2	34.8	455-2214-ND	.22	2.03	16.88	XHP-13
	14	32.5	35.7	37.3	455-2213-ND	.28	2.62	21.79	XHP-14
	15	35.0	38.2	39.8	455-2212-ND	.29	2.67	22.28	XHP-15
	16	37.5	40.7	42.3	455-2209-ND	.50	4.63	38.58	XHP-16
	20	47.5	50.7	52.3	455-2211-ND	.69	6.34	52.82	XHP-20
Headers									
Top Entry (Shrouded)									
2	2	2.5	7.4	—	455-2247-ND	.09	.83	6.88	B2B-XH-A(LF)(SN)(P)
	3	5.0	9.9	—	455-2248-ND	.11	1.06	8.84	B3B-XH-A(LF)(SN)(P)
	4	7.5	12.4	—	455-2249-ND	.15	1.43	11.91	B4B-XH-A(LF)(SN)
	5	10.0	14.9	—	455-2270-ND	.19	1.74	14.53	B5B-XH-A(LF)(SN)
	6	12.5	17.4	—	455-2271-ND	.22	2.03	16.95	B6B-XH-A(LF)(SN)
	7	15.0	19.9	—	455-2252-ND	.26	2.43	20.22	B7B-XH-A(LF)(SN)(P)
	8	17.5	22.4	—	455-2251-ND	.29	2.69	22.38	B8B-XH-A(LF)(SN)(P)
	9	20.0	24.9	—	455-2244-ND	.33	3.01	25.06	B9B-XH-A(LF)(SN)
	10	22.5	27.4	—	455-2253-ND	.38	3.50	29.19	B10B-XH-A(LF)(SN)(P)
	11	25.0	29.9	—	455-2255-ND	.40	3.70	30.83	B11B-XH-A(LF)(SN)
	12	27.5	32.4	—	455-2259-ND	.46	4.27	35.60	B12B-XH-A(LF)(SN)
	13	30.0	34.9	—	455-2260-ND	.49	4.55	37.90	B13B-XH-A(LF)(SN)
	14	32.5	37.4	—	455-2258-ND	.53	4.92	40.97	B14B-XH-A(LF)(SN)
	15	35.0	39.9	—	455-2254-ND	.57	5.29	44.11	B15B-XH-A(LF)(SN)
	16	37.5	42.4	—	455-2241-ND	.61	5.59	46.60	B16B-XH-A(LF)(SN)
Top Entry (Shrouded) With Boss									
2	1	—	4.9	—	455-2227-ND	.21	1.92	16.03	B1B-XH-AM(LF)(SN)
	2	2.5	7.4	—	455-2273-ND	.10	.92	7.66	B2B-XH-AM(LF)(SN)
	3	5.0	9.9	—	455-2231-ND	.13	1.18	9.82	B3B-XH-AM(LF)(SN)
	4	7.5	12.4	—	455-2237-ND	.17	1.53	12.76	B4B-XH-AM(LF)(SN)(P)
	5	10.0	14.9	—	455-2239-ND	.19	1.79	14.92	B5B-XH-AM(LF)(SN)
	6	12.5	17.4	—	455-2238-ND	.24	2.22	18.52	B6B-XH-AM(LF)(SN)
	7	15.0	19.9	—	455-2235-ND	.27	2.53	21.10	B7B-XH-AM(LF)(SN)
	8	17.5	22.4	—	455-2232-ND	.30	2.79	23.23	B8B-XH-AM(LF)(SN);
	10	22.5	27.4	—	455-2234-ND	.39	3.57	29.77	B10B-XH-AM(LF)(SN)
	12	27.5	32.4	—	455-2233-ND	.47	4.38	36.50	B12B-XH-AM(LF)(SN)
Side Entry (Shrouded)									
3	2	2.5	7.4	—	455-2257-ND	.13	1.19	9.95	S2B-XH-A(LF)(SN)
	3	5.0	9.9	—	455-2250-ND	.16	1.50	12.50	S3B-XH-A(LF)(SN)
	4	7.5	12.4	—	455-2243-ND	.21	1.89	15.77	S4B-XH-A(LF)(SN)
	5	10.0	14.9	—	455-2242-ND	.25	2.27	18.92	S5B-XH-A(LF)(SN)
3	6	12.5	17.4	—	455-2236-ND	.31	2.90	24.15	S6B-XH-A(LF)(SN)
	7	15.0	19.9	—	455-2240-ND	.36	3.34	27.82	S7B-XH-A(LF)(SN)
	8	17.5	22.4	—	455-2225-ND	.39	3.56	29.65	S8B-XH-A(LF)(SN)
	9	20.0	24.9	—	455-2224-ND	.46	4.25	35.41	S9B-XH-A(LF)(SN)
	10	22.5	27.4	—	455-2228-ND	.48	4.46	37.17	S10B-XH-A(LF)(SN)
	11	25.0	29.9	—	455-2226-ND	.58	5.33	44.44	S11B-XH-A(LF)(SN)
	12	27.5	32.4	—	455-2221-ND	.63	5.83	48.56	S12B-XH-A(LF)(SN)
	13	30.0	34.9	—	455-2223-ND	.68	6.29	52.42	S13B-XH-A(LF)(SN)
	14	32.5	37.4	—	455-2222-ND	.70	6.42	53.47	S14B-XH-A(LF)(SN)
	15	35.0	39.9	—	455-2272-ND	.85	7.85	65.45	S15B-XH-A(LF)(SN)
	16	37.5	42.4	—	455-2229-ND	.96	8.85	73.78	S16B-XH-A(LF)(SN)

Fig.	Cir-cuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel◊ Pricing 500	JST Part No.
Headers									
SMT Entry (Shrouded)									
4	3	5.0	12.5	455-2263-1-ND	.63	5.81	48.43	193.72	S3B-XH-SM4-TB(LF)(SN)
	4	7.5	15.0	455-2262-1-ND	.71	6.57	54.78	219.10	S4B-XH-SM4-TB(LF)(SN)
	6	12.5	20.0	455-2264-1-ND	.95	8.72	72.71	290.83	S6B-XH-SM4-TB(LF)(SN)

◊ For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Tape & Reel Pricing◊ 8,000	JST Part No.
Contacts					
30 ~ 26 AWG	455-2261-1-ND	.04	.33	16.49/M	SXH-002T-P0.6
28 ~ 22 AWG	455-1135-1-ND	.04	.33	16.49/M	SXH-001T-P0.6
Tools					
Crimp Tool for 30 ~ 26 AWG	455-2245-ND	925.65/1		—	YRS-480
Crimp Tool for 28 ~ 22 AWG	455-1136-ND	466.56/1		—	WC-110
Extraction Tool	455-2246-ND	51.82/1		—	XJ-06

◊ For Tape and Reel part number, change 1-ND to 2-ND.

XA Series

2.5mm Connectors

Features:
• Locking device to prevent accidental disconnection • Header wafer made of glass filled PA66 nylon, effective against solder crack • Low insertion force • Insertion guide mechanism

Specifications:
• Current Rating: 3A AC/DC (AWG 20) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: AWG 28 ~ 20

Fig. 1

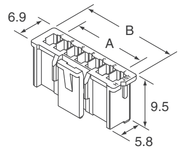

Fig. 2

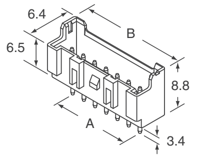

Fig. 3

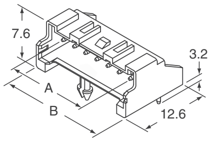

Fig. 4

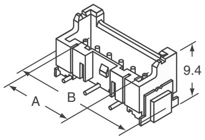

Fig.	Cir-cuits	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	JST Part No.
Housing								
1	3	5.0	9.8	455-2149-ND	.08	.70	5.86	XAP-03V-1(P)
	4	7.5	12.3	455-2150-ND	.10	.88	7.31	XAP-04V-1(P)
	5	10.0	14.8	455-2151-ND	.09	.84	7.01	XAP-05V-1
	6	12.5	17.3	455-2152-ND	.12	1.15	9.55	XAP-06V-1(P)
	7	15.0	19.8	455-2153-ND	.12	1.11	9.24	XAP-07V-1
	8	17.5	22.3	455-2154-ND	.20	1.86	15.47	XAP-08V-1(P)
	9	20.0	24.8	455-2155-ND	.20	1.88	15.65	XAP-09V-1
	10	22.5	27.3	455-2156-ND	.23	2.12	17.64	XAP-10V-1
	11	25.0	29.8	455-2157-ND	.23	2.15	17.88	XAP-11V-1
	12	27.5	32.3	455-2158-ND	.24	2.18	18.19	XAP-12V-1
	13	30.0	34.8	455-2159-ND	.24	2.22	18.49	XAP-13V-1
	14	32.5	37.3	455-2160-ND	.25	2.28	18.98	XAP-14V-1
	15	35.0	39.8	455-2161-ND	.25	2.31	19.21	XAP-15V-1
Headers								
Top Entry - Through Hole (Shrouded) Without Boss								
2	2	2.5	7.5	455-1989-ND	.14	1.33	11.05	B02B-XASK-1(LF)(SN)
	3	5.0	10.0	455-1990-ND	.19	1.74	14.53	B03B-XASK-1(LF)(SN)
	4	7.5	12.5	455-1994-ND	.23	2.17	18.06	B04B-XASK-1(LF)(SN)
	5	10.0	15.0	455-1995-ND	.30	2.75	22.89	B05B-XASK-1(LF)(SN)
	6	12.5	17.5	455-1996-ND	.34	3.17	26.42	B06B-XASK-1(LF)(SN)
	8	17.5	22.5	455-1998-ND	.46	4.21	35.06	B08B-XASK-1(LF)(SN)
	9	20.0	25.0	455-1999-ND	.51	4.68	38.99	B09B-XASK-1(LF)(SN)
	12	27.5	32.5	455-2005-ND	.71	6.52	54.30	B12B-XASK-1(LF)(SN)
Side Entry - Through Hole With Peg (Shrouded)								
3	2	2.5	7.5	455-2044-ND	.41	3.79	31.59	S0B2-XASS-1(LF)(SN)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

XA Series 2.5mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape & Reel◊ Pricing 500	JST Part No.
Headers								
SMT Type (Shrouded)								
4	2	2.5	10.0	455-2022-1-ND	.73	6.75	225.01	BM02B-XASS-TF(LF)(SN)
	3	5.0	12.5	455-2023-1-ND	.91	8.42	280.69	BM03B-XASS-TF(LF)(SN)
	5	10.0	17.5	455-2024-1-ND	1.05	9.72	324.11	BM05B-XASS-TF(LF)(SN)
	6	12.5	20.0	455-2025-1-ND	1.15	10.57	352.41	BM06B-XASS-TF(LF)(SN)
	7	15.0	22.5	455-2026-1-ND	1.37	12.68	422.69	BM07B-XASS-TF(LF)(SN)
	8	17.5	25.0	455-2027-1-ND	1.43	13.16	438.80	BM08B-XASS-TF(LF)(SN)
	9	20.0	27.5	455-2028-1-ND	1.48	13.65	455.13	BM09B-XASS-TF(LF)(SN)
	13	30.0	37.5	455-2029-1-ND	1.88	17.38	579.21	BM13B-XASS-TF(LF)(SN)

◊ For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel◊ Pricing 8,000	JST Part No.
Contacts - Tin Plated						
26 ~ 22 AWG	455-2050-1-ND	.03	.25	2.10	12.57/M	SXA-001T-P0.6L(N)
24 ~ 20 AWG	455-2051-1-ND	.03	.25	2.10	12.57/M	SXA-01T-P0.6
Hand Crimp Tools						
22 ~ 26 AWG	455-2045-ND	466.56/1			—	WC-691
20 ~ 24 AWG	455-2046-ND	566.37/1			—	WC-700M
20 ~ 24 AWG	455-2049-ND	1273.83/1			—	YRS-692

◊ For Tape and Reel part number, change 1-ND to 2-ND.

XAD Series

2.5mm Connectors

Features: • Locking device prevents accidental disconnection • Solder crack preventive material • Mis-insertion preventative design

Specifications: • Current Rating: 3A AC/DC (20 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 20 AWG

Fig. 1

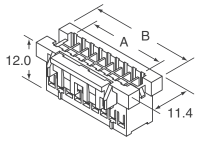

Fig. 2

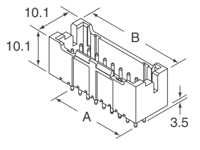

Fig. 3

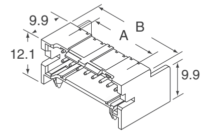

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Housing								
1	8	7.5	14.7	455-2162-ND	.25	2.31	19.22	XADRP-08V
	10	10.0	17.2	455-2163-ND	.25	2.35	19.61	XADRP-10V
	12	12.5	19.7	455-2164-ND	.25	2.26	18.86	XADRP-12V
	14	15.0	22.2	455-2165-ND	.27	2.45	20.40	XADRP-14V(P)
	16	17.5	24.7	455-2166-ND	.27	2.50	20.82	XADRP-16V(P)
	18	20.0	27.2	455-2167-ND	.28	2.54	21.20	XADRP-18V
	20	22.5	29.7	455-2168-ND	.28	2.59	21.58	XADRP-20V
	22	25.0	32.2	455-2169-ND	.29	2.64	21.97	XADRP-22V
	24	27.5	34.7	455-2170-ND	.29	2.68	22.35	XADRP-24V(P)
	26	30.0	37.2	455-2171-ND	.30	2.75	22.89	XADRP-26V
	28	32.5	39.7	455-2172-ND	.30	2.78	23.18	XADRP-28V
	30	35.0	42.2	455-2174-ND	.31	2.84	23.65	XADRP-30V(P)
	34	40.0	47.2	455-2173-ND	.32	2.92	24.33	XADRP-34V
	40	47.5	54.7	455-2175-ND	.33	3.06	25.54	XADRP-40V
Headers								
Top Entry (Shrouded)								
2	8	7.5	15.0	455-1997-ND	.50	4.64	38.69	B08B-XADSS-N(LF)(SN)
	10	10.0	17.5	455-2002-ND	.57	5.25	43.77	B10B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2008-ND	.66	6.14	51.14	B14B-XADSS-N(LF)(SN)
	18	20.0	27.5	455-2011-ND	.80	7.35	61.23	B18B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2014-ND	.83	7.65	63.73	B20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2019-ND	1.07	9.85	82.05	B26B-XADSS-N(LF)(SN)
	36	42.5	50.0	455-2020-ND	1.53	14.11	117.62	B36B-XADSS-N(LF)(SN)
	40	47.5	55.0	455-2021-ND	1.74	16.08	134.02	B40B-XADSS-N(LF)(SN)
Side Entry (Shrouded)								
3	8	7.5	15.0	455-2031-ND	1.56	14.44	120.36	S08B-XADSS-N(LF)(SN)
	12	12.5	20.0	455-2033-ND	1.69	15.63	130.23	S12B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2034-ND	1.87	17.31	144.21	S14B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2035-ND	2.37	21.92	182.65	S20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2036-ND	3.89	35.87	298.96	S26B-XADSS-N(LF)(SN)

VH Series

3.96mm Connectors

Features: • Reliable VH connector can be used in a wide variety of applications • Mounting height of 16.5mm • Lock mechanism prevents the connector from coming loose and prevents mis-insertion

Specifications: • Current Rating: 10A maximum AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 22 ~ 16 AWG • Color: Natural (White)

Fig. 1

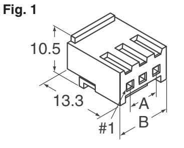

Fig. 2

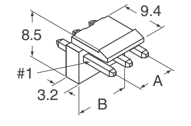

Fig. 3

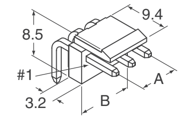

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Housing								
1	2	3.96	7.86	455-1183-ND	.07	.69	5.76	VHR-2N
	3	7.92	11.82	455-1184-ND	.09	.80	6.68	VHR-3N
	4	11.88	15.78	455-1185-ND	.11	1.02	8.51	VHR-4N
	5	15.84	19.74	455-1186-ND	.15	1.35	11.26	VHR-5N
	6	19.80	23.70	455-1187-ND	.16	1.45	12.11	VHR-6N
	7	23.76	27.66	455-1181-ND	.20	1.86	15.51	VHR-7N
	8	27.72	31.62	455-1168-ND	.21	1.92	16.03	VHR-8N
	9	31.68	35.58	455-1169-ND	.24	2.24	18.65	VHR-9N
	10	35.64	39.54	455-1167-ND	.28	2.56	21.33	VHR-10N
Headers								
Top Entry (locking)								
2	2	3.96	7.86	455-1639-ND	.14	1.32	11.00	B2P-VH(LF)(SN)
	3	7.92	11.82	455-1640-ND	.18	1.67	13.91	B3P-VH(LF)(SN)
	4	11.88	15.78	455-1641-ND	.23	2.14	17.84	B4P-VH(LF)(SN)
	5	15.84	19.74	455-1642-ND	.29	2.63	21.93	B5P-VH(LF)(SN)
	6	19.80	23.70	455-1643-ND	.33	3.00	25.02	B6P-VH(LF)(SN)
	7	23.76	27.66	455-1644-ND	.38	3.47	28.94	B7P-VH(LF)(SN)
	8	27.72	31.62	455-1645-ND	.45	4.15	34.55	B8P-VH(LF)(SN)
	9	31.68	35.58	455-1646-ND	.50	4.60	38.32	B9P-VH(LF)(SN)
	10	35.64	39.54	455-1647-ND	.54	5.01	41.79	B10P-VH(LF)(SN)
Side Entry (locking)								
3	2	3.96	7.86	455-1648-ND	.17	1.55	12.96	B2PS-VH(LF)(SN)
	3	7.92	11.82	455-1649-ND	.21	1.95	16.27	B3PS-VH(LF)(SN)
	4	11.88	15.78	455-1650-ND	.28	2.60	21.65	B4PS-VH(LF)(SN)
	5	15.84	19.74	455-1651-ND	.35	3.20	26.65	B5PS-VH(LF)(SN)
	6	19.80	23.70	455-1652-ND	.41	3.78	31.47	B6PS-VH(LF)(SN)
	7	23.76	27.66	455-1653-ND	.46	4.25	35.45	B7PS-VH(LF)(SN)
	8	27.72	31.62	455-1654-ND	.55	5.07	42.24	B8PS-VH(LF)(SN)
	9	31.68	35.58	455-1655-ND	.60	5.57	46.45	B9PS-VH(LF)(SN)
	10	35.64	39.54	455-1656-ND	.66	6.13	51.10	B10PSVH(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel◊ Qty.	Pricing	JST Part No.
Contacts — Tin Plated							
20 ~ 16 AWG	455-1319-1-ND	.07	.62	5.16	3,500	34.25/M	SVH-41T-P1.1
22 ~ 18 AWG	455-1133-1-ND	.06	.57	4.72	4,500	31.31/M	SVH-21T-P1.1
Crimp Tools							
20 ~ 16 AWG	455-1911-ND	466.56/1			—	—	WC-930
22 ~ 18 AWG	455-1134-ND	466.56/1			—	—	WC-160

◊ For Tape and Reel part number, change 1-ND to 2-ND.

WPJ Series

Wire-to-Wire and Wire-to-Board Crimp Style Connectors

The new WPJ Series Wire-to-Wire and Wire-to-Board crimp style connector was designed for both extreme moisture and non-submersion applications. Major uses include automotive, appliance, underwater cameras or non-water resistance applications. Three different control key patterns prevent miss-mating while their unique terminal structure has been designed to withstand mating mistakes while maintaining the contact reliability. An inner lock housing feature prevents accidental disconnection to ensure connector mating integrity even under adverse conditions.

Specifications: • Current Rating: 7A AC/DC • Voltage Rating: 300V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 22 ~ 18 AWG • Insulation Resistance: 1,000MΩ minimum • Dielectric Voltage: AC 1,500/one minute • Insulation Diameter: Standard 2.32 ~ 2.83mm, Thin 1.52 ~ 2.03mm • Water-proof Grade: IP:X7 • Pitch: 5.0mm
Material: • Contacts: Copper alloy, tin-plated • Housings: PBT (Glass-filled) • Flammability: UL94V-0

Fig. 1

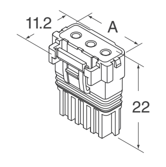

Fig. 2

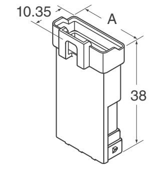

Fig. 3

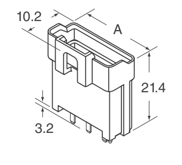

Fig.	Cir-cuits	Dim. A (mm)	Key Pattern/ Color*	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Receptacle Housings								
Waterproof Type for Standard Wire								
1	2	12.1	1/Natural	455-2427-ND	1.50	13.83	115.23	02R-WPJV-1-SMM(NN)
	2	12.1	2/Red	455-2428-ND	1.50	13.83	115.23	02R-WPJV-2-RMM(NN)
	2	12.1	3/Blue	455-2429-ND	1.50	13.83	115.23	02R-WPJV-3-EMM(NN)

* Key Patterns/Colors do not intermate.

(Continued)

JST WPJ Series *(Cont.)*

Fig.	Cir-cuits	Dim. A (mm)	Key Pattern/ Color*	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
1	3	17.1	1/Natural	455-2430-ND	1.84	17.00	141.69	03R-WPJV-1-SMM(NN)
	3	17.1	2/Red	455-2431-ND	1.84	17.00	141.69	03R-WPJV-2-RMM(NN)
	3	17.1	3/Blue	455-2432-ND	1.84	17.00	141.69	03R-WPJV-3-EMM(N)
Waterproof Type for Thin Wire								
1	2	12.1	1/Natural	455-2433-ND	1.42	13.14	109.48	02R-WPJV-1-SM(NN)
	2	12.1	2/Red	455-2434-ND	1.42	13.14	109.48	02R-WPJV-2-RM(NN)
	2	12.1	3/Blue	455-2435-ND	1.42	13.14	109.48	02R-WPJV-3-EM(NN)
	3	17.1	1/Natural	455-2436-ND	1.52	14.03	116.89	03R-WPJV-1-SM(NN)
	3	17.1	2/Red	455-2437-ND	1.67	15.40	128.34	03R-WPJV-2-RM(NN)
	3	17.1	3/Blue	455-2438-ND	1.67	15.40	128.34	03R-WPJV-3-EM(NN)
Non-Waterproof Type for Standard and Thin Wire								
1	2	12.1	1/Natural	455-2439-ND	.23	2.11	17.61	WPJR-(02)V-1-S(NN)
	2	12.1	2/Red	455-2440-ND	.25	2.31	19.23	WPJR-(02)V-2-R(NN)
	2	12.1	3/Blue	455-2441-ND	.25	2.31	19.23	WPJR-(02)V-3-E(NN)
	3	17.1	1/Natural	455-2442-ND	.26	2.40	20.04	WPJR-(03)V-1-S(NN)
	3	17.1	2/Red	455-2443-ND	.32	2.99	24.90	WPJR-(03)V-2-R(NN)
	3	17.1	3/Blue	455-2444-ND	.32	2.99	24.90	WPJR-(03)V-3-E(NN)
Tab Housings								
Waterproof Type for Standard Wire								
2	2	14.2	1/Natural	455-2455-ND	1.06	9.82	81.83	02T-WPJV-1-SM
	2	14.2	2/Red	455-2456-ND	1.25	11.58	96.50	02T-WPJV-2-RM
	2	14.2	3/Blue	455-2457-ND	1.25	11.58	96.50	02T-WPJV-3-EM
	3	19.2	1/Natural	455-2458-ND	1.19	10.96	91.37	03T-WPJV-1-SM
	3	19.2	2/Red	455-2459-ND	1.54	14.21	118.38	03T-WPJV-2-RM
	3	19.2	3/Blue	455-2460-ND	1.54	14.21	118.38	03T-WPJV-3-EM
Non-Waterproof Type for Thin Wire								
2	3	19.2	2/Red	455-2461-ND	1.02	9.45	78.72	WPJT-03V-2-R
	3	19.2	3/Blue	455-2462-ND	1.02	9.45	78.72	WPJT-03V-3-E
Headers								
3	2	14.2	1/Natural	455-2445-ND	.30	2.73	22.74	B02B-WPJSS-1(LF)(SN)
	2	14.2	2/Red	455-2446-ND	.32	2.99	24.88	B02B-WPJRS-2(LF)(SN)
	2	14.2	3/Blue	455-2447-ND	.32	2.99	24.88	B02B-WPJES-3(LF)(SN)
	3	19.2	1/Natural	455-2448-ND	.39	3.62	30.13	B03B-WPJSS-1(LF)(SN)
	3	19.2	2/Red	455-2449-ND	.41	3.79	31.60	B03B-WPJRS-2(LF)(SN)
	3	19.2	3/Blue	455-2450-ND	.41	3.79	31.60	B03B-WPJES-3(LF)(SN)

* Key Patterns/Colors do not intermate.

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing	JST Part No.
Contacts for Standard Wire — Tin Plated							
Recept., 22 ~ 18 AWG	455-2451-1-ND	.07	.61	5.08	4,500	33.70/M	SWPJR-21T-M0.5
Tab, 22 ~ 18 AWG	455-2453-1-ND	.07	.68	5.65	6,000	33.92/M	SWPJT-21T-P0.5
Contacts for Thin Wire — Tin Plated							
Recept., 22 ~ 18 AWG	455-2452-1-ND	.07	.61	5.08	4,500	33.70/M	SWPJR-21T-M0.5A
Tab, 22 ~ 18 AWG	455-2454-1-ND	.07	.68	5.65	9,000	33.92/M	SWPJT-21T-P0.5A
Waterproof Seal Plates							
For 2 Position Thin Wire	455-2463-ND	.37	3.39	28.28	—	—	WPJS-(02)N
For 3 Position Thin Wire	455-2464-ND	.52	4.85	40.38	—	—	WPJS-(03)N
Crimp Tools							
Crimp Tool for Std. Wire	455-2465-ND	527.33/1			—	—	WC-WPJM
Crimp Tool for Thin Wire	455-2466-ND	527.33/1			—	—	WC-WPJ (A)
Extraction Tool	455-2467-ND	187.86/1			—	—	EJ-WPJ

◊ For Tape and Reel part number, change 1-ND to 2-ND.

VL Series

6.2mm Connectors

Features: • Since the contact retention lances are part of the housing rather than protruding from the contact, they cannot be damaged by handling. They allow the contact to be easily inserted and securely locked into the housing. • Since these contacts have large cross-sectional areas and high contact pressure, they can accommodate circuits requiring high power • Unique space-saving panel lock is designed to prevent tangling with wires or breaking in cold or dry weather

Specifications: • Current Rating: 20A maximum AC/DC • Voltage Rating: 600V AC/DC • Temperature Range: -25°C ~ 90°C • Contact Resistance: Inital value/7mΩ maximum. After environmental testing/10mΩ maximum • Insulation Resistance: 1,000MΩ minimum • Withstanding Voltage: 2,000V AC/minute

Fig. 1

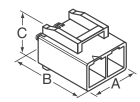

Fig. 2

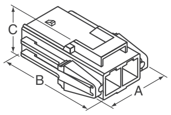

Fig. 3

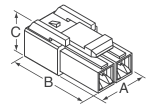

Fig.	Circuits	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Vertical Headers									
1	2	13.4	16.4	11.2	455-2361-ND	.61	5.61	46.74	B02P-VL
	3	19.6	16.4	11.2	455-2362-ND	.99	9.11	75.95	B03P-VL
	4	13.4	16.4	18.0	455-2363-ND	1.26	11.61	96.79	B04P-VL
	6	19.6	16.4	18.0	455-2364-ND	1.78	16.41	136.73	B06P-VL
1	8	26.2	16.4	18.0	455-2365-ND	1.84	16.96	141.29	B08P-VL
	12	38.6	16.4	18.0	455-2366-ND	1.92	17.77	148.08	B12P-VL
Housing									
Receptacle Housing									
2	2	20.2	29.5	11.2	455-2355-ND	.26	2.39	19.88	VLR-02V
	3	26.4	29.5	11.2	455-2356-ND	.36	3.34	27.86	VLR-03V
	4	20.2	29.5	18.0	455-2357-ND	.44	4.03	33.60	VLR-04V
	6	26.4	29.5	18.0	455-2358-ND	.64	5.87	48.88	VLR-06V
	8	32.6	29.5	18.0	455-2359-ND	.73	6.76	56.37	VLR-08V
	12	39.6	29.5	18.0	455-2360-ND	1.32	12.15	101.27	VLR-12V
Plug Housing — Inner-housing Lock									
3	2	13.4	24.0	11.2	455-2374-ND	.22	2.02	16.80	VLP-02V
	3	19.6	24.0	11.2	455-2350-ND	.29	2.68	22.36	VLP-03V
	4	13.4	24.0	18.2	455-2351-ND	.36	3.33	27.73	VLP-04V
	6	19.6	24.0	18.2	455-2352-ND	.54	5.02	41.87	VLP-06V
	8	25.8	24.0	18.2	455-2353-ND	.63	5.82	48.52	VLP-08V
	12	38.2	24.0	18.2	455-2354-ND	1.15	10.59	88.27	VLP-12V

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing	JST Part No.
Contacts — Tin Plated							
Socket, 22 ~ 16 AWG	455-2347-1-ND	.07	.68	5.68	2,000	37.72/M	SVF-42T-P2.0
Socket, 20 ~ 14 AWG	455-2376-1-ND	.07	.68	5.68	2,000	37.72/M	SVF-61T-P2.0
Socket, 12 AWG	455-2377-1-ND	.07	.69	5.74	2,000	38.12/M	SVF-81T-P2.0
Pin, 22 ~ 16 AWG	455-2348-1-ND	.08	.75	6.23	2,000	41.34/M	SVM-42T-P2.0
Pin, 20 ~ 14 AWG	455-2379-1-ND	.08	.75	6.23	2,000	41.34/M	SVM-61T-P2.0
Pin, 12 AWG	455-2349-1-ND	.08	.76	6.35	2,000	42.13/M	SVM-81T-P2.0
Crimp Tools							
22 ~ 16 AWG	455-2369-ND	516.41/1			—	—	WC-592
14 ~ 20 AWG	455-2367-ND	479.07/1			—	—	WC-590
12 AWG	455-2368-ND	470.46/1			—	—	WC-591
Extraction Tool	455-2370-ND	117.22/1			—	—	VLJ-20

◊ For Tape and Reel part number, change 1-ND to 2-ND.

SIN Series

Board-In Crimp Terminals

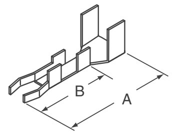

Features:

- Compliant board retention feature insures secure mounting before and during soldering • Wires can be machine-secured to terminals • Strain relief minimizes wires

Specifications:

- Current Rating: Depends on applicable wires
- Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 12 AWG • Applicable PC Board Thickness: 1.6mm (.063")

Material: • Tin Plated

Wire AWG#	Dim. (mm) A	B	PCB (mm) Thick-ness	Hole Dia.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	JST Part No.
28 ~ 26	5.8	3.1	1.6	1.0	455-1452-1-ND	.03	.22	1.81	SIN-002T-1.0

Miscellaneous Crimp Tools

Description	Digi-Key Part No.	Price Each	JST Part No.
Crimp Tools			
Head Adapter KR Series	455-1374-ND	340.85	IDH-KR12
Pistol Grip Crimp Tool	455-1372-ND	160.49	IDB-12

AVEN

Crimping Tool for Micro Connectors

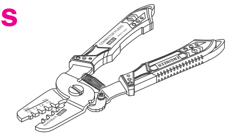

- Quality general-purpose crimp tool
- Capable of crimping 1.25mm ~ 2.5mm (AWG 32-20) pitch connector pins

AV4999-ND (10140) **$59.71**

Bergstak® 0.03" (0.8 mm) Pitch Mezzanine Connector System

Features: • Extremely versatile high density mezzanine connector system. Surface mount attachment • Blade-on-beam contacts allow "peeling" and prevent "stubbing" • Face polarization prevents mis-mating • PCB polarization prevents PCB assembly errors

Plug: • Housing: G.F.LCP UL 94V-0 • Terminal: Brass **Receptacle:** • Housing: G.F.LCP UL 94V-0 • Terminal: Beryllium Copper • Mating Cycles: 100 • Voltage Rating: 100VAC • Current Rating: 6.5A • Temperature Range: -40°C ~ 85°C

Mate (Stack) Height Guide – mm			
Plug Code	Receptacle Code		
	1	2	3
1	5.0	9.0	13.0
2	6.0	10.0	14.0
3	7.0	11.0	15.0
4	8.0	12.0	16.0

Fig. 1

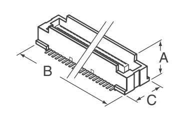

Fig. 2

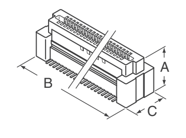

No. of Positions	Dimensions - Inch (mm)			Mate Height Code	Polari-zation	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		FCI Part No.
	A	B	C				1	25	100		Qty.	Pricing	
Fig. 1 — Plugs													
40	0.185 (4.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1667-1-ND	4.00	2.47	2.18	609-1667-2-ND	900	1796.38	61083-041402LF
	0.224 (5.70)	0.858 (21.80)	0.236 (6.00)	2	Yes	609-1669-1-ND	3.75	2.32	2.04	609-1669-2-ND	800	1523.38	61083-042402LF
	0.264 (6.70)	0.858 (21.80)	0.236 (6.00)	3	Yes	609-1671-1-ND	4.06	2.51	2.21	609-1671-2-ND	700	1443.28	61083-043402LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	Yes	609-1673-1-ND	4.18	2.60	2.35	609-1673-2-ND	600	1318.75	61083-044402LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	No	609-1674-1-ND	4.03	2.50	2.27	609-1674-2-ND	600	1308.66	61083-044422LF
60	0.185 (4.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1675-1-ND	4.18	2.60	2.35	609-1675-2-ND	900	1941.91	61083-061402LF
	0.224 (5.70)	1.173 (29.80)	0.236 (6.00)	2	Yes	609-1677-1-ND	4.30	2.67	2.42	609-1677-2-ND	800	1776.32	61083-062402LF
	0.264 (6.70)	1.173 (29.80)	0.236 (6.00)	3	Yes	609-1679-1-ND	4.42	2.75	2.49	609-1679-2-ND	700	1598.87	61083-063402LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	Yes	609-1681-1-ND	5.32	3.31	3.00	609-1681-2-ND	600	1679.65	61083-064402LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	No	609-1682-1-ND	4.59	2.96	2.63	609-1682-2-ND	600	1500.44	61083-064422LF
80	0.185 (4.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1683-1-ND	4.93	3.17	2.82	609-1683-2-ND	900	2373.08	61083-081402LF
	0.224 (5.70)	1.488 (37.80)	0.236 (6.00)	2	Yes	609-1685-1-ND	5.01	3.22	2.87	609-1685-2-ND	800	2143.01	61083-082402LF
	0.264 (6.70)	1.488 (37.80)	0.236 (6.00)	3	Yes	609-1687-1-ND	5.32	3.31	2.99	609-1687-2-ND	700	1923.35	61083-083402LF
	0.303 (7.70)	1.488 (37.80)	0.236 (6.00)	4	Yes	609-1689-1-ND	5.45	3.39	3.07	609-1689-2-ND	400	1166.96	61083-084402LF
100	0.185 (4.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1691-1-ND	5.23	3.33	3.05	609-1691-2-ND	650	1851.12	61083-101402LF
	0.224 (5.70)	1.803 (45.80)	0.236 (6.00)	2	Yes	609-1693-1-ND	5.65	3.60	3.29	609-1693-2-ND	550	1692.54	61083-102402LF
	0.264 (6.70)	1.803 (45.80)	0.236 (6.00)	3	Yes	609-1695-1-ND	5.43	3.53	3.22	609-1695-2-ND	450	1380.55	61083-103402LF
	0.303 (7.70)	1.803 (45.80)	0.236 (6.00)	4	Yes	609-1697-1-ND	5.82	3.78	3.46	609-1697-2-ND	400	1315.16	61083-104402LF
120	0.185 (4.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1699-1-ND	6.09	3.88	3.55	609-1699-2-ND	650	2156.61	61083-121402LF
	0.224 (5.70)	2.118 (53.80)	0.236 (6.00)	2	Yes	609-1701-1-ND	6.00	4.00	3.58	—	—	—	61083-122402LF
	0.264 (6.70)	2.118 (53.80)	0.236 (6.00)	3	Yes	609-1703-1-ND	5.85	3.89	3.49	609-1703-2-ND	450	1542.53	61083-123402LF
	0.303 (7.70)	2.118 (53.80)	0.236 (6.00)	4	Yes	609-1705-1-ND	6.63	4.42	3.96	609-1705-2-ND	400	1555.25	61083-124402LF
140	0.185 (4.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1707-1-ND	6.29	4.19	3.76	609-1707-2-ND	650	2355.81	61083-141402LF
	0.224 (5.70)	2.433 (61.80)	0.236 (6.00)	2	Yes	609-1709-1-ND	6.51	4.34	3.89	609-1709-2-ND	550	2062.52	61083-142402LF
	0.264 (6.70)	2.433 (61.80)	0.236 (6.00)	3	Yes	609-1711-1-ND	9.76	6.76	5.98	609-1711-2-ND	450	1630.00	61083-143402LF
	0.303 (7.70)	2.433 (61.80)	0.236 (6.00)	4	Yes	609-1713-1-ND	6.95	4.42	4.05	609-1713-2-ND	400	1567.39	61083-144402LF
160	0.303 (7.70)	2.748 (69.80)	0.236 (6.00)	4	Yes	609-1721-1-ND	6.97	4.82	4.27	609-1721-2-ND	400	1669.47	61083-164402LF
180	0.303 (7.70)	3.063 (77.80)	0.236 (6.00)	4	Yes	609-1729-1-ND	7.52	5.12	4.61	609-1729-2-ND	400	1802.58	61083-184402LF
200	0.224 (5.70)	3.378 (85.80)	0.236 (6.00)	2	Yes	609-1733-1-ND	10.38	7.14	6.49	—	—	—	61083-202402LF
Fig. 2 — Receptacles													
40	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1613-1-ND	4.06	2.52	2.28	609-1613-2-ND	800	1676.30	61082-041402LF
	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	No	609-1614-1-ND	4.06	2.52	2.29	609-1614-2-ND	800	1728.05	61082-041422LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	Yes	609-1615-1-ND	4.19	2.61	2.36	609-1615-2-ND	500	1121.21	61082-042402LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	No	609-1616-1-ND	4.33	2.68	2.36	609-1616-2-ND	500	1154.42	61082-042422LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	Yes	609-1617-1-ND	4.37	2.70	2.38	609-1617-2-ND	300	702.09	61082-043402LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	Yes	609-3557-ND	4.03	2.50	2.27	—	—	—	61082-043400LF
60	0.145 (3.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1619-1-ND	4.65	2.99	2.66	609-1619-2-ND	800	1990.58	61082-061402LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	Yes	609-1621-1-ND	5.13	3.30	2.93	609-1621-2-ND	500	1395.79	61082-062402LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	No	609-1622-1-ND	4.78	2.99	2.74	609-1622-2-ND	500	1301.24	61082-062422LF
	0.461 (11.70)	1.173 (29.80)	0.252 (6.40)	3	Yes	609-1623-1-ND	4.66	3.00	2.67	609-1623-2-ND	300	801.81	61082-063402LF
80	0.145 (3.70)	1.488 (37.80)	0.236 (6.00)	1	Yes	609-1625-1-ND	5.52	3.43	3.11	609-1625-2-ND	800	2281.10	61082-081402LF
	0.461 (11.70)	1.488 (37.80)	0.252 (6.40)	3	Yes	609-1629-1-ND	5.61	3.57	3.27	609-1629-2-ND	300	949.43	61082-083402LF
100	0.145 (3.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1631-1-ND	5.94	3.85	3.53	609-1631-2-ND	800	2636.59	61082-101402LF
	0.303 (7.70)	1.803 (45.80)	0.268 (6.80)	2	Yes	609-1633-1-ND	5.70	3.80	3.40	609-1633-2-ND	400	1377.35	61082-102402LF
	0.461 (11.70)	1.803 (45.80)	0.252 (6.40)	3	Yes	609-1635-1-ND	5.96	3.97	3.56	609-1635-2-ND	300	1067.23	61082-103402LF
120	0.145 (3.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1637-1-ND	6.10	4.07	3.64	609-1637-2-ND	800	2813.55	61082-121402LF
	0.303 (7.70)	2.118 (53.80)	0.268 (6.80)	2	Yes	609-1639-1-ND	7.10	4.57	4.06	609-1639-2-ND	400	1573.37	61082-122402LF
	0.461 (11.70)	2.118 (53.80)	0.252 (6.40)	3	Yes	609-1641-1-ND	6.22	4.14	3.71	—	—	—	61082-123402LF
140	0.145 (3.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1643-1-ND	6.77	4.51	4.04	609-1643-2-ND	700	2729.69	61082-141402LF
160	0.145 (3.70)	2.748 (69.80)	0.236 (6.00)	1	Yes	609-1649-1-ND	7.41	5.13	4.54	609-1649-2-ND	700	3107.68	61082-161402LF
180	0.145 (3.70)	3.063 (77.80)	0.236 (6.00)	1	Yes	609-1655-1-ND	10.07	7.14	6.57	609-1655-2-ND	700	2709.22	61082-181402LF
200	0.145 (3.70)	3.378 (85.80)	0.236 (6.00)	1	Yes	609-1661-1-ND	6.63	4.70	4.33	609-1661-2-ND	700	2913.15	61082-201402LF

Conan® High Density, Low Profile 0.04" (1.00mm) Pitch Mezzanine Connector System

The Conan 1.0mm mezzanine connector system provides a rugged, mechanically secure, high density electrical interface between parallel printed circuit boards.

Features: • "Snap" engagement contacts assure secure mating with an audible "click" • Connector housings feature "lead-in" angles to assist in mating • Mating polarization prevents backward connections

Applications: • Portable and mobile electronic equipment • Medical and Instrumentation • Office Equipment • Communications and Networking Equipment **Mechanical Performance:** • Mating Force: 125g per contact maximum • Unmating Force: 45g per contact minimum • Durability: 30 mating cycles **Electrical Performance:** • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 500VAC, RMS at 60Hz • Current Rating: 1.0A continuous (per contact, all contacts powered)

Fig. 1

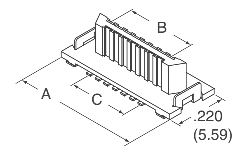

Fig. 2

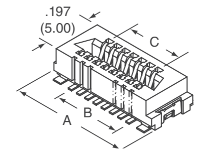

No. of Positions	Overall Mated Height With Receptacle (mm)	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Tape and Reel§		FCI Part No.
		A	B	C		1	25	100	Qty.	Pricing	
Fig. 1 — Plugs											
9	.163 (4.15)	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1570-ND	2.21	1.31	1.13	—	—	91910-21109LF
11	.163 (4.15)	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1571-ND	2.27	1.31	1.16	—	—	91910-21111LF
15	.163 (4.15)	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1572-ND	2.66	1.57	1.40	—	—	91910-21115LF
21	.163 (4.15)	0.602 (15.30)	0.394 (10.00)	0.354 (9.00)	609-1573-ND	2.94	1.77	1.54	—	—	91910-21121LF
25	.163 (4.15)	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1574-ND	3.18	1.89	1.69	—	—	91910-21125LF
31	.163 (4.15)	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1575-ND	3.61	2.22	1.93	—	—	91910-21131LF
41	.163 (4.15)	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1576-ND	4.27	2.65	2.40	—	—	91910-21141LF
51	.163 (4.15)	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1577-ND	5.03	3.13	2.83	—	—	91910-21151LF
69	.163 (4.15)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1578-ND	5.69	3.56	3.26	—	—	91910-21169LF
9	.276 (7.00)	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1579-ND	3.02	1.86	1.61	—	—	91910-21509LF
15	.276 (7.00)	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1581-ND	2.66	1.57	1.40	—	—	91910-21515LF
25	.276 (7.00)	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1583-ND	2.84	1.69	1.51	—	—	91910-21525LF
31	.276 (7.00)	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1584-ND	3.61	2.22	1.93	—	—	91910-21531LF

‡ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Conan® High Density, Low Profile 0.04” (1.00mm) Pitch Mezzanine Connector System *(Cont.)*

No. of Positions	Overall Mated Height With Receptacle (mm)	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Tape and Reel§		FCI Part No.
		A	B	C		1	25	100	Qty.	Pricing	
41	.276 (7.00)	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1585-ND	4.27	2.65	2.40	—	—	91910-21541LF
51	.276 (7.00)	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1586-ND	5.03	3.13	2.83	—	—	91910-21551LF
69	.276 (7.00)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1587-ND	5.89	3.56	3.26	—	—	91910-21569LF
Fig 1 — Plugs, with Pick and Place Cap											
69	.163 (4.15)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-3413-1-ND‡	3.07	1.89	1.64	500	795.15	91911-31169LF
9	.177 (4.50)	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-3414-1-ND‡	1.71	.96	.84	800	610.08	91911-31209LF
11	.177 (4.50)	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-3415-1-ND‡	2.46	1.57	1.36	800	1019.76	91911-31211LF
15	.177 (4.50)	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-3416-1-ND‡	1.81	1.04	.90	800	665.64	91911-31215LF
21	.177 (4.50)	0.602 (15.30)	0.394 (10.00)	0.354 (9.00)	609-3411-1-ND‡	1.76	.98	.86	800	625.92	91911-31221LF
25	.177 (4.50)	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-3417-1-ND‡	2.31	1.37	1.21	800	867.10	91911-31225LF
31	.177 (4.50)	0.800 (20.30)	0.591 (15.00)	0.551 (14.00)	609-3418-1-ND‡	2.50	1.51	1.31	800	955.72	91911-31231LF
41	.177 (4.50)	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-3412-1-ND‡	2.96	1.82	1.58	500	766.20	91911-31241LF
51	.177 (4.50)	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-3419-1-ND‡	2.95	1.81	1.57	500	762.45	91911-31251LF
69	.177 (4.50)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-3420-1-ND‡	3.05	1.89	1.66	500	789.45	91911-31269LF
9	.197 (5.00)	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-3421-1-ND‡	2.04	1.29	1.12	800	842.28	91911-31309LF
11	.197 (5.00)	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-3422-1-ND‡	2.19	1.39	1.21	800	905.50	91911-31311LF
15	.197 (5.00)	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-3423-1-ND‡	1.65	.92	.81	800	589.32	91911-31315LF
21	.197 (5.00)	0.602 (15.30)	0.394 (10.00)	0.354 (9.00)	609-3424-1-ND‡	2.76	1.75	1.52	500	737.63	91911-31321LF
25	.197 (5.00)	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-3425-1-ND‡	2.92	1.85	1.61	800	1186.40	91911-31325LF
31	.197 (5.00)	0.800 (20.30)	0.591 (15.00)	0.551 (14.00)	609-3426-1-ND‡	3.71	2.35	2.05	500	959.47	91911-31331LF
41	.197 (5.00)	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-3427-1-ND‡	4.34	2.75	2.39	500	1122.81	91911-31341LF
51	.197 (5.00)	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-3428-1-ND‡	4.65	2.95	2.56	500	1180.83	91911-31351LF
69	.197 (5.00)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-3429-1-ND‡	5.72	3.63	3.15	500	1454.00	91911-31369LF
9	.236 (6.00)	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-3430-1-ND‡	1.76	.98	.86	500	405.48	91911-31409LF
11	.236 (6.00)	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-3431-1-ND‡	1.91	1.10	.95	500	447.37	91911-31411LF
15	.236 (6.00)	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-3432-1-ND‡	2.64	1.68	1.46	500	707.10	91911-31415LF
21	.236 (6.00)	0.602 (15.30)	0.394 (10.00)	0.354 (9.00)	609-3433-1-ND‡	1.93	1.14	.99	500	464.13	91911-31421LF
25	.236 (6.00)	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-3434-1-ND‡	2.97	1.89	1.64	500	794.48	91911-31425LF
31	.236 (6.00)	0.800 (20.30)	0.591 (15.00)	0.551 (14.00)	609-3435-1-ND‡	3.49	2.22	1.92	500	902.70	91911-31431LF
41	.236 (6.00)	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-3436-1-ND‡	3.94	2.50	2.17	500	1018.55	91911-31441LF
51	.236 (6.00)	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-3437-1-ND‡	3.33	2.06	1.81	500	859.92	91911-31451LF
69	.236 (6.00)	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-3438-1-ND‡	5.42	3.44	2.99	500	1377.41	91911-31469LF
Fig. 2 — Receptacles											
9	—	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1588-ND	2.53	1.46	1.29	—	—	91930-21109LF
11	—	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1589-ND	2.62	1.55	1.38	—	—	91930-21111LF
15	—	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1590-ND	2.87	1.73	1.51	—	—	91930-21115LF
21	—	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1591-ND	3.23	1.92	1.72	—	—	91930-21121LF
25	—	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1592-ND	3.56	2.19	1.90	—	—	91930-21125LF
31	—	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1593-ND	3.82	2.36	2.08	—	—	91930-21131LF
41	—	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1594-ND	4.65	2.89	2.62	—	—	91930-21141LF
51	—	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1595-ND	5.58	3.49	3.19	—	—	91930-21151LF
69	—	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1596-ND	6.19	4.12	3.69	—	—	91930-21169LF
Fig. 2 — Receptacle with Pegs and Cap											
21	—	.602 (15.30)	0.394 (10.00)	0.354 (9.00)	609-3520-1-ND‡	3.19	1.86	1.74	800	1295.38	91931-31121LF
69	—	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-3522-1-ND‡	5.81	3.60	3.17	500	1582.21	91931-31169LF
Fig. 2 — Receptacle without Pegs and with Cap											
25	—	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-3521-1-ND‡	3.41	1.99	1.86	800	1386.81	91921-31125LF

‡ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND.

Rib-Cage™ High Density, .050” x .050” (1.27mm x 1.27mm) Pitch, Tolerant Board-to-Board Connector System

Rib-Cage is a versatile family of two-piece, two-row pin-and-socket connectors for right angle and mezzanine connections between printed circuit boards (PCB) or flexible printed circuits (FPC).

Features: • Exclusive Rib-Cage multi-point, gold plated receptacle contacts provide optimal reliability in high vibration and shock-prone applications • High density .050” (1.27mm) x .050” (1.27mm) double row contact grid occupies only 20% of the volume of comparable 0.100” pitch systems • Polarization prevents mis-mating

Applications: • Shock resistant and vibration-prone electronic applications • Handheld test and diagnostic equipment • Electronic sub-assemblies used in conjunction with fans, motors and mechanical devices

Materials: Contact Plating: 30μ (0.76μm) gold over Nickel in Contact area; lead-free pure tin over Nickel on solder tails

Electrical Performance: 1.0A DC per contact with all contacts energized • Insulation Resistance: 50,000MΩ minimum initial • Withstanding Voltage: 800VAC, RMS at 60Hz

Fig. 1

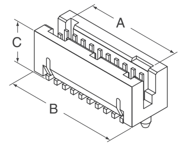

Fig. 2

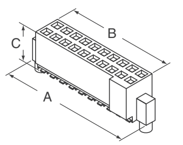

Fig. 3

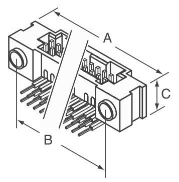

No. of Positions	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			FCI Part No.
	A	B	C		1	25	100	
Fig. 1 — Vertical SMT Plugs								
10	0.275 (6.99)	0.372 (9.45)	0.221 (5.63)	609-3654-ND	2.35	1.40	1.24	87407-105LF
10	0.275 (6.99)	0.372 (9.45)	0.226 (5.74)	609-3175-ND	1.63	.88	.77	87409-105LF
20	0.525 (13.34)	0.622 (15.80)	0.226 (5.74)	609-1553-ND	2.05	1.11	.98	87409-110LF
30	0.775 (19.68)	0.872 (22.15)	0.226 (5.74)	609-1554-ND	2.60	1.50	1.33	87409-115LF
40	1.025 (26.03)	1.122 (28.50)	0.226 (5.74)	609-1555-ND	3.24	1.93	1.73	87409-120LF
50	1.275 (32.38)	1.372 (34.85)	0.226 (5.74)	609-3176-ND	3.45	2.22	1.97	87409-125LF
60	1.525 (38.74)	1.622 (41.20)	0.226 (5.74)	609-3177-ND	4.01	2.49	2.26	87409-130LF
70	1.775 (45.08)	1.872 (47.55)	0.226 (5.74)	609-3178-ND	5.84	3.79	3.47	87409-135LF
80	2.025 (51.43)	2.122 (53.90)	0.226 (5.74)	609-3179-ND	6.43	4.28	3.84	87409-140LF
90	2.275 (57.78)	2.372 (60.25)	0.226 (5.74)	609-3180-ND	7.78	5.29	4.77	87409-145LF
100	2.525 (64.14)	2.622 (66.60)	0.226 (5.74)	609-3181-ND	7.73	5.26	4.73	87409-150LF
Fig. 2 — Vertical SMT Receptacles								
10	0.370 (9.4)	0.266 (6.76)	0.187 (4.75)	609-3157-ND	1.79	1.00	.88	87024-605LF
20	0.620 (15.75)	0.516 (13.11)	0.187 (4.75)	609-1550-ND	2.43	1.43	1.24	87024-610LF
30	0.870 (22.10)	0.766 (19.46)	0.187 (4.75)	609-1551-ND	3.33	2.00	1.75	87024-615LF
40	1.120 (28.45)	1.016 (25.81)	0.187 (4.75)	609-1552-ND	3.61	2.22	1.93	87024-620LF
50	1.37 (34.8)	1.266 (32.16)	0.187 (4.75)	609-3158-ND	4.78	3.08	2.74	87024-625LF
60	1.62 (41.15)	1.516 (38.51)	0.187 (4.75)	609-3159-ND	5.02	3.14	2.88	87024-630LF
70	1.87 (47.5)	1.766 (44.86)	0.187 (4.75)	609-3160-ND	6.11	4.07	3.65	87024-635LF
80	2.12 (53.85)	2.016 (51.21)	0.187 (4.75)	609-3161-ND	6.16	4.10	3.68	87024-640LF
90	2.37 (60.2)	2.266 (57.56)	0.187 (4.75)	609-3162-ND	7.55	5.23	4.63	87024-645LF
100	2.62 (66.55)	2.516 (63.91)	0.187 (4.75)	609-3163-ND	7.28	5.04	4.46	87024-650LF
Fig. 3 — Right Angle PCB Plugs								
10	0.635 (16.13)	0.485 (12.32)	0.201 (5.11)	609-3164-ND	6.39	4.26	3.81	87402-105LF
20	0.885 (22.48)	0.735 (18.67)	0.201 (5.11)	609-3165-ND	8.63	5.87	5.18	87402-110LF
30	1.135 (28.83)	0.985 (25.02)	0.201 (5.11)	609-3166-ND	10.68	7.26	6.68	87402-115LF
30	1.135 (28.83)	0.985 (25.02)	0.201 (5.11)	609-3174-ND	9.72	6.69	6.08	87402-515LF
40	1.385 (35.18)	1.235 (31.37)	0.201 (5.11)	609-3167-ND	7.91	5.38	4.95	87402-120LF
50	1.635 (41.52)	1.485 (37.72)	0.201 (5.11)	609-3168-ND	11.75	8.33	7.67	87402-125LF
60	1.885 (47.88)	1.735 (44.07)	0.201 (5.11)	609-3169-ND	12.14	8.61	7.92	87402-130LF
70	2.135 (54.23)	1.985 (50.42)	0.201 (5.11)	609-3170-ND	10.71	7.59	6.99	87402-135LF
80	2.385 (60.58)	2.235 (56.77)	0.201 (5.11)	609-3171-ND	13.18	9.56	8.50	87402-140LF
90	2.635 (66.93)	2.485 (63.12)	0.201 (5.11)	609-3172-ND	12.31	8.92	7.94	87402-145LF
100	2.885 (73.28)	2.735 (69.47)	0.201 (5.11)	609-3173-ND	12.15	8.62	7.93	87402-150LF

MEG-Array®

High Speed Mezzanine Connectors

Features: • Utilized in high-density, high-speed mezzanine applications at data rates up to 1.0Gb/s • MEG-Array connectors support stack heights in the range of 4mm ~ 14mm with options for 81 ~ 528 contact positions • FCI's patented BGA technology, ensuring reliable attach, easy placement and routing and good electrical performance • Meet Telcordida GR-1217-CORE **Applications:** • Device-to-Board: Optical Transponders and Transceivers, Add/Drop Multiplexers, Control Units, Processor Cards, Displays, Medical Diagnostic Equipment (CT scan, Eye scan etc.) • Board-to-Board: Servers, Base Stations, Memory Cards, Mobile Broadcast Equipment

Fig. 1

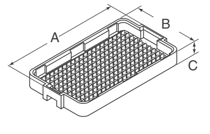

Fig. 2

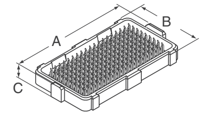

Fig. 3

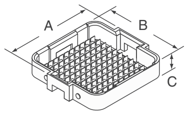

No. of Positions	Stacking Height Inch (mm)	Dimensions - Inch (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		FCI Part No.
		A	B	C		1	25	100		Qty.	Pricing	
					Fig. 1 — Plugs							
200	0.000 (0.00)	1.236 (31.40)	0.683 (17.34)	0.132 (3.35)	609-1090-1-ND	13.21	9.58	8.52	609-1090-2-ND	250	2199.09	84516-102LF
300	0.000 (0.00)	1.736 (44.10)	0.683 (17.34)	0.132 (3.35)	609-1095-1-ND	13.73	9.73	8.58	609-1095-2-ND	250	2180.39	84500-102LF
300	0.000 (0.00)	1.736 (44.10)	0.683 (17.34)	0.132 (3.35)	609-3598-1-ND	8.65	5.19	5.12	609-3598-2-ND	250	1318.20	84500-002LF
300	0.000 (0.00)	1.736 (44.10)	0.683 (17.34)	0.132 (3.35)	609-3599-1-ND	21.83	16.38	15.28	609-3599-2-ND	250	3941.12	84500-202LF
300	0.236 (6.00)	1.756 (44.60)	0.683 (17.34)	0.368 (9.35)	609-1096-1-ND	20.57	15.18	13.96	609-1096-2-ND	150	2200.51	84578-102LF
400	0.000 (0.00)	2.236 (56.80)	0.683 (17.34)	0.132 (3.35)	609-1100-1-ND	20.68	15.27	14.04	609-1100-2-ND	250	3622.40	84740-102LF
400	0.000 (0.00)	2.236 (56.80)	0.683 (17.34)	0.132 (3.35)	609-3600-1-ND	17.62	11.75	11.12	609-3600-2-ND	250	2931.92	84740-002LF
400	0.236 (6.00)	2.256 (57.30)	0.683 (17.34)	0.368 (9.35)	609-1101-1-ND	21.51	15.88	14.60	609-1101-2-ND	150	2301.58	84520-102LF
					Fig. 2 — Receptacles							
200	0.157 (4.00)	1.165 (29.60)	0.647 (16.44)	0.132 (3.35)	609-1091-1-ND	14.71	10.66	9.49	609-1091-2-ND	250	2448.88	84517-101LF
200	0.236 (6.00)	1.165 (29.60)	0.647 (16.44)	0.211 (5.35)	609-1092-1-ND	16.60	12.08	10.95	609-1092-2-ND	200	2260.80	55724-101LF
200	0.315 (8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1093-1-ND	15.03	10.93	9.91	609-1093-2-ND	150	1562.34	84535-101LF
200	0.315 (8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1094-1-ND	23.35	17.87	16.35	609-1094-2-ND	150	2623.76	84535-201LF
300	0.157 (4.00)	1.665 (42.30)	0.645 (16.38)	0.132 (3.35)	609-1097-1-ND	21.49	15.86	14.59	609-1097-2-ND	250	3763.38	84501-101LF
300	0.217 (5.50)	1.665 (42.30)	0.645 (16.38)	0.191 (4.85)	609-1098-1-ND	26.30	20.12	18.42	609-1098-2-ND	200	3616.31	84502-101LF
300	0.315 (8.00)	1.665 (42.30)	0.647 (16.44)	0.289 (7.35)	609-1099-1-ND	23.91	18.29	16.74	609-1099-2-ND	150	2686.09	84553-101LF
400	0.157 (4.00)	2.165 (55.00)	0.647 (16.44)	0.132 (3.35)	609-1102-1-ND	21.30	15.73	14.46	609-1102-2-ND	250	3731.17	74221-101LF
400	0.157 (4.00)	2.165 (55.00)	0.647 (16.44)	0.132 (3.35)	609-3601-1-ND	17.94	11.96	11.32	609-3601-2-ND	250	2985.43	74221-001LF
400	0.236 (6.00)	2.165 (55.00)	0.647 (16.44)	0.211 (5.35)	609-1103-1-ND	25.05	19.17	17.54	609-1103-2-ND	250	4522.50	74388-101LF
400	0.315 (8.00)	2.165 (55.00)	0.647 (16.44)	0.289 (7.35)	609-1104-1-ND	23.76	18.18	16.64	609-1104-2-ND	200	3496.02	74390-101LF
					Fig. 3 — Plug							
100	0.000 (0.00)	0.736 (18.7)	0.683 (17.34)	0.132 (3.35)	609-3597-1-ND	14.63	10.73	9.50	609-3597-2-ND	250	2434.67	84512-102LF

GIG-Array®

High Speed Mezzanine Connectors

Features: • Designed to meet the needs of up to 10Gb/s applications • Stack heights available from 15mm ~ 40mm provide mezzanine design flexibility • Connector sizes of 200 and 296 signals providing 62 signal contacts per linear cm (158 signal contacts per linear inch) allow for optimization of board space and signal requirements • Very low cross-talk (VLC) design of less than 1% allows for required signal integrity performance **Applications:** • Communications: Transmission, Access, Switching, Optics and Networking • Data: Servers and Storage

Fig. 1

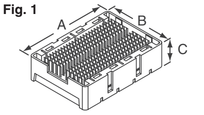

Fig. 2

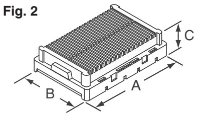

No. of Positions	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			FCI Part No.
	A	B	C		1	25	100	
				Fig. 1 — Plugs				
296	2.12 (53.75)	1.00 (25.50)	0.46 (11.64)	609-2865-ND◆	56.39	43.38	40.49	10026804-001LF
200	1.50 (38.20)	1.00 (25.50)	0.50 (12.64)	609-3441-ND	32.94	25.34	23.65	10030626-001
200	1.50 (38.20)	1.00 (25.50)	0.50 (12.64)	609-3591-ND◆	32.94	25.34	23.65	10030626-001LF
200	1.50 (38.20)	1.00 (25.50)	0.97 (24.64)	609-2866-ND◆	32.45	24.96	23.30	10054783-001LF
200	1.50 (38.20)	1.00 (25.50)	0.50 (12.64)	609-2868-ND◆	31.25	25.34	23.65	10060910-001LF
296	2.12 (53.75)	1.00 (25.50)	0.50 (12.64)	609-2869-ND◆	42.29	32.28	30.61	10060911-001LF
296	2.12 (53.75)	1.00 (25.50)	0.58 (14.64)	609-2872-ND◆	53.84	42.21	39.30	55700-001LF
296	2.12 (53.75)	1.00 (25.50)	0.38 (9.64)	609-2874-ND◆	41.45	31.64	30.00	55720-001LF
296	2.12 (53.75)	1.00 (25.50)	0.77 (19.64)	609-2875-ND◆	54.44	42.67	39.73	55727-001LF
200	1.50 (38.20)	1.00 (25.50)	0.38 (9.64)	609-2877-ND◆	32.16	24.74	23.09	55737-001LF
200	1.50 (38.20)	1.00 (25.50)	0.58 (14.64)	609-2878-ND◆	41.12	31.38	29.76	55738-001LF
200	1.50 (38.20)	1.00 (25.50)	0.77 (19.64)	609-2879-ND◆	41.63	31.77	30.13	55739-001LF
				Fig. 2 — Receptacles				
200	1.50 (38.20)	1.00 (25.50)	0.57 (14.51)	609-2870-ND◆	32.55	25.04	23.37	10060912-001LF
296	2.12 (53.75)	1.00 (25.50)	0.57 (14.51)	609-2871-ND◆	41.93	32.00	30.35	10060913-001LF
296	2.12 (53.75)	1.00 (25.50)	0.18 (4.51)	609-2873-ND◆	41.68	32.06	29.93	55701-001LF
296	2.12 (53.75)	1.00 (25.50)	0.57 (14.51)	609-2876-ND◆	41.93	32.00	30.35	55733-001LF
200	1.50 (38.20)	1.00 (25.50)	0.42 (10.64)	609-3442-ND	31.99	24.00	22.40	55740-001
200	1.50 (38.20)	1.00 (25.50)	0.18 (4.51)	609-2880-ND◆	31.99	24.00	22.40	55740-001LF
200	1.50 (38.20)	1.00 (25.50)	0.57 (14.51)	609-2881-ND◆	32.55	25.04	23.37	55741-001LF
200	1.50 (38.20)	1.00 (25.50)	0.655 (16.64)	609-3125-ND	31.03	23.28	21.73	10081496-001
200	1.50 (38.20)	1.00 (25.50)	0.655 (16.64)	609-3126-ND◆	31.03	23.28	21.73	10081496-001LF
296	2.12 (53.75)	1.00 (25.50)	0.655 (16.64)	609-3127-ND	41.12	31.39	29.76	10081497-001
296	2.12 (53.75)	1.00 (25.50)	0.655 (16.64)	609-3128-ND◆	41.12	31.39	29.76	10081497-001LF

◆ ***RoHS Compliant***

PwrBlade™ Power Distribution Connector System

PwrBlade Power Distribution Connector System consists of power and signal contacts. This system is designed to economically satisfy the demanding requirements of server applications. The connectors are configured to satisfy the specific requirements of Industry SSI design standards.

Materials:

- **Housing:** Glass filled high temperature nylon • Color: Black
- **Contacts:** • Power Contacts: Beryllium-copper • Signal Pins: Phosphor-bronze • Signal Contacts: Beryllium-copper
- **Plating:** • All contacts: 0.76µm (30µ in.) Gold over 1.27µm (50µ in.) Nickel

Electrical and Mechanical Performance:

- Insulation Resistance: 20MΩ minimum
- Withstanding Voltage: 1,200V RMS
- Current Rating: 48A for single-powered contact; derated to 30 for 12-powered contact
- Contact Resistance: 0.5mΩ maximum at rated power
- Mating Force: 12 pounds typical for 11 power, 24 signal configuration

Fig. 1

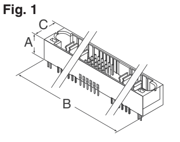

Fig. 2

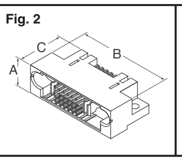

Fig. 3

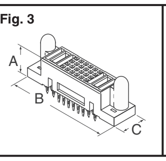

Fig. 4

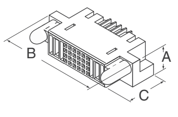

Fig.	Configuration	Termination	Dimension - Inch (mm)			Digi-Key Part No.	Price Each			FCI Part No.
			A	B	C		1	25	100	
						Headers — Vertical				
1	1P, 24S, 1P	PCB	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2086-ND	6.90	4.32	3.95	51952-001LF
	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2087-ND	11.70	8.29	7.63	51952-002LF
						Headers — Right Angle				
2	1P, 24S, 1P	PCB	0.574 (14.58)	1.925 (48.90)	0.930 (23.62)	609-2077-ND	6.88	4.58	4.10	51415-001LF
	6p, 24S, 5P	PCB	0.574 (14.58)	4.350 (110.49)	0.930 (23.62)	609-2079-ND	9.26	6.57	5.79	51624-XX001LF
	6p, 24S	PCB	0.574 (14.58)	2.75 (69.85)	0.930 (23.62)	609-3634-ND	6.90	4.78	4.22	51721-10002406AALF
						Receptacles — Vertical				
3	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.470 (11.94)	609-2081-ND	5.49	3.50	3.20	51666-001LF
	6P, 24S, 5P	Pressfit	0.500 (12.70)	4.350 (110.49)	0.470 (11.94)	609-2082-ND	9.15	6.48	5.72	51667-XX001LF
	6p, 24S	Pressfit	0.500 (12.70)	2.75 (69.85)	0.470 (11.94)	609-3637-ND	7.05	4.88	4.32	51741-10002406CCLF
						Receptacles — Right Angle				
4	1P, 24S, 1P	PCB	0.470 (11.94)	1.925 (48.90)	0.820 (20.83)	609-2078-ND	6.11	3.89	3.56	51416-001LF
	6P, 24S, 5P	PCB	0.470 (11.94)	4.350 (110.49)	0.820 (20.83)	609-2080-ND	12.07	8.56	7.88	51625-XX001LF
	6P, 24S, 5P	Pressfit	0.470 (11.94)	4.350 (110.49)	0.865 (21.97)	609-2085-ND	19.49	14.39	13.23	51866-008LF
	6p, 20S	PCB	0.470 (11.94)	2.65 (67.31)	0.820 (20.83)	609-3635-ND	8.31	5.66	4.99	51762-10602000AALF
	6p, 24S	PCB	0.470 (11.94)	8.00 (203.2)	0.820 (20.83)	609-3636-ND	8.59	5.95	5.26	51761-10002406AALF

NEW! PwrBlade® System

Dim. in mm

PwrBlade power distribution connector system from FCI includes power and signal contacts to provide power distribution and power control in a single connector. The connectors are ideal for robust power connections to embedded AC/DC power supplies or for board-to-board connections in servers, storage enclosures and communications equipment.

Materials: • **Housing:** Glass filled high temperature nylon • Color: Black • **Contacts:** • Power Contacts: Copper based alloy • Signal Pins: Phosphor-bronze • Signal Contacts: Copper based alloy • **Plating:** • Gold over nickel

Electrical Performance: • Withstanding Voltage: Power Contact: 2,500VDC; Signal Contact: 1,000VDC • Current Rating: 48A for single-powered contact; de-rated to 30A for 10-powered contacts at 30°C temperature rise with zero airflow • 60A for 10 contacts when tested to UL guidelines

Mechanical Performance: • Mating Force: 6.95N (25ozf) per power contact • 0.97N (3.5ozf) per signal contact

Fig. 1

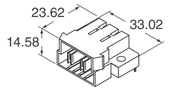

Fig. 2

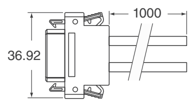

Fig. 3

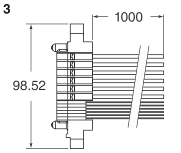

Fig.	Features	Number of Positions	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Board Lock, Flange, Mating Lock	2	609-3675-ND	4.58	2.85	2.58	51939-198LF
2	—	2	609-3676-ND	28.67	21.51	20.08	10080594-1AD0078LF
3	Flange	30 (24 + 6 Power)	609-3677-ND	43.90	33.51	31.78	10080591-HAB0023LF

NEW! Pwr TwinBlade® System

Dim. in mm

Pwr TwinBlade cable system is designed to support applications that demand the supply of high power. The Pwr TwinBlade connectors employ a proven contact system in a touch-proof design that is capable of supporting currents of up to 100A per twin contact. Other connector features include an active latch, four different coding options and polarization to ensure proper mating. The design provides capability for termination of various cable diameters and wire sizes of 6AWG.

Materials: • **Power Contact Base:** Brass alloy • **Board Connector and Cable Connector Housings:** • High temperature nylon • **Plating:** • Au over Ni in the contact area • Tin on crimping area

Electrical Performance: • 100A per twin contact at 75°C ambient • Operating Voltage: 80VDC at 25A • Short Circuit Capacity: 5 operations carrying 3000A for 10ms • Connector Rating: 2kW. 100A@20V ~ 25A@80V

Mechanical/Environmental Performance: • Insertion Force: Shall not exceed 40N • Withdrawal Force: Shall not be less than 15N • Durability: 50 cycles • Operating Temperature Range: -20°C ~ 75°C

Fig. 1

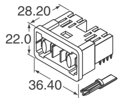

Fig. 2

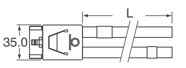

Fig. 3

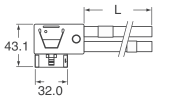

Fig.	Features	Number of Positions	Dim. L (cm)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	—	4	—	609-3678-ND	4.90	3.07	2.80	51939-219LF
2	Polarizing Key, Strain Relief	4	100	609-3679-ND	40.63	31.26	29.18	10080068-2GEL100LF
3	Polarizing Key, Strain Relief	4	100	609-3680-ND	36.27	27.91	26.05	10080068-4GEL100LF
	Polarizing Key, Strain Relief	4	100	609-3681-ND	38.80	29.85	27.86	10080068-4FEL100LF
	Polarizing Key, Strain Relief	4	100	609-3682-ND	75.68	60.55	57.30	10080068-4HEL100LF

NEW! HCI® Connector System

The HCI connector system provides capability for both power and signal contacts in a single connector to enable power distribution and power control. Integrated HCI power connector solutions, enabling DC power, AC power and signal contacts in a single molded housing, also provide incredible flexibility to address requirements for custom configurations. The touch-proof HCI housing is designed to optimize airflow. The housing permits airflow through the connector by providing vents above the signal field as well as vents above the power contacts that permit airflow away from the mated interfaces and along the entire length of the contacts.

Materials: • **Housing:** High-temperature thermoplastic (UL94V-0), black • **Contact Base Metal:** • Power: High-conductivity copper alloy • Signals: Copper alloy • **Contact Finish - Power and Signal:** • Separable Interface: 30µin. (0.76µm) performance-based plating per GS-12-380 product specification over nickel • Solder or press-fit tail area: Matte tin over nickel **Electrical Performance:** • Current Rating: 85A/contact maximum for single power contact, 52A/contact maximum for 10 power contacts at 30°C T-Rise in still air • Operating Voltage Rating: 250Vrms at 6mm (0.236") contact pitch • Dielectric Withstanding Voltage: 1000V for signal contacts; 2500V for power contacts • Insulation Resistance: >10,000MΩ for power contacts; >500MΩ for signal contacts • Contact Resistance: ≤0.5mΩ for power contact at 52A DC **Mechanical Performance:** • Durability: 200 cycles

Dim. in mm

Fig. 1 — Vertical Receptacle

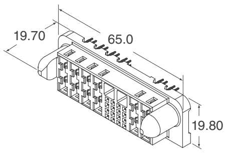

Fig. 2 — Right Angle Header

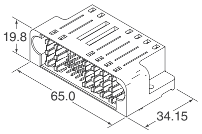

Fig. 3 — Vertical Receptacle

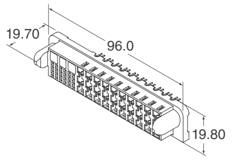

Fig. 4 — Right Angle Header

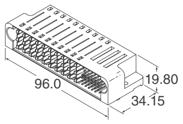

Fig. 5 — Vertical Receptacle

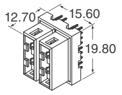

Fig. 6 — Right Angle Header

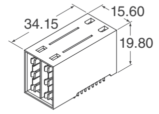

Fig. 7 — Vertical Receptacle

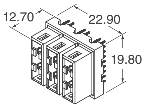

Fig. 8 — Right Angle Header

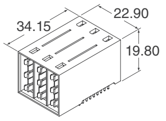

Fig. 9 — Vertical Receptacle

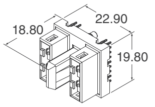

Fig. 10 — Right Angle Header

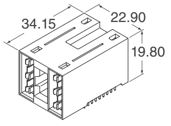

Fig. 11 — Right Angle Receptacle

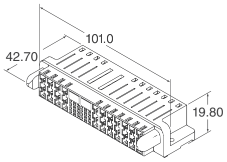

Fig. 12 — Right Angle Header

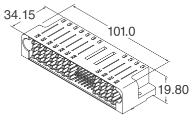

Fig.	Features	Number of Positions	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Guide Pin	22 (16S + 6P)	609-3664-ND	40.96	31.51	29.41	10074866-001
2	Board Lock, Mating Guide	22 (16S + 6P)	609-3663-ND	56.36	44.18	41.13	10074864-003LF
3	Guide Pin	34 (24S + 10P)	609-3666-ND	67.15	53.17	50.37	10065127-001LF
4	Board Lock, Mating Guide	34 (24S + 10P)	609-3665-ND	90.22	72.18	68.31	10065864-003LF
5	—	2	609-3670-ND	19.03	13.79	12.27	10078768-001LF
6	—	2	609-3669-ND	26.64	19.67	18.09	10078770-001LF
7	—	3	609-3674-ND	26.64	19.67	18.09	10078902-001LF
8	—	3	609-3673-ND	38.06	28.55	26.65	10078904-001LF
9	Board Guide, Guide Pin	2	609-3672-ND	28.55	20.69	18.40	10087939-001LF
10	Board Guide	2	609-3671-ND	26.64	19.67	18.09	10087937-001LF
11	Guide Pin	35 (24S + 11P)	609-3668-ND	120.80	97.76	90.78	10082724-001LF
12	Mating Guide	35 (24S + 11P)	609-3667-ND	120.80	97.76	90.78	10082722-001LF

NEW! Power Card Edge

Dim. in mm

Power card edge connectors can be used for DC power output from embedded AC/DC power supplies or for power distribution between boards within an enclosure. The narrow connector body helps maximize airflow for increased cooling. Adjacent power contacts are positioned on 2.54mm pitch along the card edge. Signal contacts are positioned on 1.27mm pitch.

Materials:

- **Housing:** High-temperature thermoplastic (UL94V-0), black • **Contact Base Metal:** • Power: High-conductivity copper alloy • Signals: Copper alloy • **Contact Area Finish:** • Gold over nickel • **Solder Area Finish:** • Matte pure tin over nickel

Electrical Performance:

- Current Rating: 7A/power contact measured at 30°C temperature rise in still air • Insulation Resistance: 5000MΩ minimum for power contact • Withstanding Voltage: 1000VAC for power contact

Mechanical Performance:

- Durability: 200 mating/un-mating cycles • Operating Temperature Range: -5°C ~ 105°C

Fig. 1

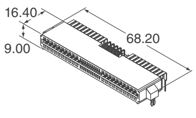

Fig. 2

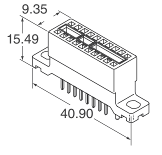

Fig. 3

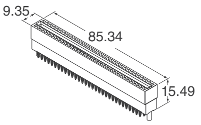

Fig.	Card Thickness (mm)	Number of Positions	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	1.57	64	609-3660-ND	20.46	15.10	13.89	10028886-004LF
2	1.57	16	609-3661-ND	11.57	8.20	7.55	10046972-001LF
3	1.57	62	609-3662-ND	12.03	8.72	7.76	10075664-001LF

Tyco Electronics
Authorized Distributor

STEP-Z Interconnection System

STEP-Z connector is a grid array mezzanine connector specifically designed for high speed and density applications up to 10+ gigabit per second data rates. Pin out patterns for either differential pair or single ended provide excellent isolation of high speed signals. Ground connections in close proximity to signal connections enable proper electrical coupling through the entire interconnect dramatically reducing crosstalk. **Plating**: Gold.

Fig. 1

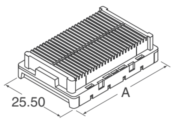

Fig. 2

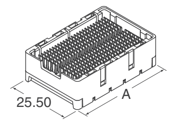

No. of Positions†	Dim. A (mm)	Height★ (mm)	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
				1	25	100	
Fig. 1 — Receptacles							
104	22.60	5	A99346-ND	23.64	21.41	15.17	5-1761613-5
	22.60	15	A99349-ND	25.02	22.66	16.05	6-1761613-5
200	38.20	5	A99347-ND	34.98	31.68	22.44	5-1761615-5
	38.20	15	A99350-ND	36.73	33.27	23.57	6-1761615-5
296	53.75	5	A99348-ND	52.47	47.52	33.66	5-1761617-5
	53.75	15	A99351-ND	57.61	52.18	36.96	6-1761617-5
Fig. 2 — Plugs							
104	22.60	10	A99352-ND	24.54	22.23	15.75	6-1761612-0
	22.60	13	A99355-ND	24.54	22.23	15.75	6-1761612-3
	22.60	15	A99358-ND	29.18	26.43	18.72	6-1761612-5
	22.60	20	A99361-ND	28.83	26.12	18.50	7-1761612-0
200	38.20	10	A99353-ND	36.73	33.27	23.57	6-1761614-0
	38.20	13	A99356-ND	36.73	33.27	23.57	6-1761614-3
	38.20	15	A99359-ND	36.73	33.27	23.57	6-1761614-5
	38.20	20	A99362-ND	41.98	38.02	26.93	7-1761614-0
	38.20	25	A99364-ND	41.98	38.02	26.93	7-1761614-5
296	53.75	10	A99354-ND	54.35	49.23	34.87	6-1761616-0
	53.75	13	A99357-ND	61.75	55.92	39.61	6-1761616-3
	53.75	15	A99360-ND	63.04	57.10	40.45	6-1761616-5
	53.75	20	A99363-ND	62.12	56.26	39.85	7-1761616-0
	53.75	25	A99365-ND	62.12	56.26	39.85	7-1761616-5

† Signal contacts only, ground contacts not included ★ Stack Height = Receptacle Height plus Plug Height

SEAF and SEAM Series

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Copper Alloy • Current Rating: 2.7A • Operating Temperature Range: -55°C ~ 125°C • Plating: Au over 50μ" (1.27μm) Ni • Contact Resistance: 5.5mΩ • Working Voltage: 240VAC • Mated Cycles: 100

Fig. 1

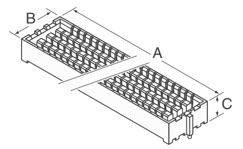

Fig. 2

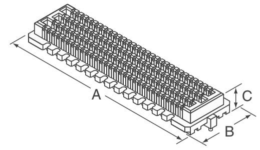

Pins/Row x No. of Rows	Dimensions - mm			Digi-Key Part No.	Price Each		T & R‡ Pricing	Samtec Part No.
	A	B	C		1	10	125	
Fig. 1 — Receptacles								
20 x 10	31.22	13.23	5.05	SAM8001CT-ND†	20.62	16.81	1804.25	SEAF-20-05.0-S-10-2-A-K-TR
30 x 10	43.92	13.23	5.05	SAM8005-ND	26.46	21.57	—	SEAF-30-05.0-S-10-2-A
30 x 10	43.92	13.23	5.05	SAM8005CT-ND†	24.54	20.00	2147.25	SEAF-30-05.0-S-10-2-A-K-TR
40 x 8	56.62	10.69	5.05	SAM8008-ND	28.46	23.20	—	SEAF-40-05.0-S-08-2-A
40 x 8	56.62	10.69	5.05	SAM8008CT-ND†	27.54	22.45	2409.75	SEAF-40-05.0-S-08-2-A-K-TR
40 x 10	56.62	13.23	5.05	SAM8009CT-ND†	30.52	25.04	2738.75	SEAF-40-05.0-S-10-2-A-K-TR
40 x 8	56.62	10.69	6.55	SAM8010-ND	26.72	21.78	—	SEAF-40-06.5-S-08-2-A
50 x 10	69.32	13.23	5.05	SAM8013-ND	35.82	29.40	—	SEAF-50-05.0-S-10-2-A
50 x 10	69.32	13.23	5.05	SAM8013CT-ND†	34.67	28.45	3055.94	SEAF-50-05.0-S-10-2-A-K-TR
Fig. 2 — Headers								
20 x 10	30.38	14.68	4.6	SAM8017CT-ND†	22.34	18.21	1954.75	SEAM-20-02.0-S-10-2-A-K-TR
20 x 8	30.38	12.14	6.1	SAM8018-ND	21.56	17.58	—	SEAM-20-03.5-S-08-2-A
30 x 10	43.08	14.68	4.6	SAM8021CT-ND†	26.58	21.67	2325.75	SEAM-30-02.0-S-10-2-A-K-TR
40 x 8	55.78	12.14	4.6	SAM8024-ND	30.07	24.68	—	SEAM-40-02.0-S-08-2-A
40 x 8	55.78	12.14	4.6	SAM8024CT-ND†	29.82	24.31	2609.25	SEAM-40-02.0-S-08-2-A-K-TR
40 x 10	55.78	14.68	4.6	SAM8025CT-ND†	33.05	27.12	2913.28	SEAM-40-02.0-S-10-2-A-K-TR
40 x 10	55.78	14.68	6.1	SAM8027-ND	36.25	29.75	—	SEAM-40-03.5-S-10-2-A
50 x 10	68.48	14.68	4.6	SAM8029-ND	34.14	28.02	—	SEAM-50-02.0-S-10-2-A
50 x 10	68.48	14.68	4.6	SAM8029CT-ND†	37.56	30.82	3310.31	SEAM-50-02.0-S-10-2-A-K-TR

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND

HDAM and HDAF Arrays

Specifications: • Insulator Material: Black Liquid Crystal Polymer • Contact Material: Copper Alloy • Current Rating: 2.3A @ 80°C Ambient • Operating Temperature Range: -55°C ~ 125°C • Plating: Gold or Tin over 50μ" (1.27μm) Nickel • Contact Resistance: 19mΩ maximum • Working Voltage: 200VAC • Mated Cycles: 100

Fig. 1

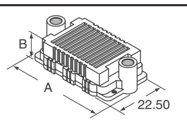

Fig. 2

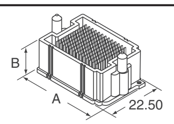

Pairs per Row and No. of Rows	Dimensions - mm		Digi-Key Part No.	Price Each		Samtec Part No.
	A	B		1	10	
Fig. 1 — HDAF Arrays						
11 x 13	39.92	20.51	SAM8656-ND	22.80	18.59	HDAF-11-18.0-S-13-1
23 x 13	63.92	10.51	SAM8654-ND	37.64	30.88	HDAF-23-08.0-S-13-1
23 x 13	63.92	20.51	SAM8660-ND	38.73	31.78	HDAF-23-18.0-S-13-1
Fig. 1 — HDAF Arrays — RoHS Compliant						
11 x 13	39.92	20.51	SAM8657-ND	22.80	18.59	HDAF-11-18.0-S-13-2
15 x 13	47.92	20.51	SAM8659-ND	28.50	23.23	HDAF-15-18.0-S-13-2
23 x 13	63.92	10.51	SAM8655-ND	37.64	30.88	HDAF-23-08.0-S-13-2
23 x 13	63.92	20.51	SAM8661-ND	38.73	31.78	HDAF-23-18.0-S-13-2
Fig. 2 — HDAM Arrays						
11 x 13	38.06	14.41	SAM8638-ND	22.60	18.42	HDAM-11-12.0-S-13-1
11 x 13	38.06	19.41	SAM8644-ND	23.08	18.81	HDAM-11-17.0-S-13-1
15 x 13	46.06	14.41	SAM8640-ND	28.24	23.02	HDAM-15-12.0-S-13-1
15 x 13	46.06	19.41	SAM8646-ND	28.86	23.53	HDAM-15-17.0-S-13-1
23 x 13	62.06	14.41	SAM8642-ND	38.38	31.49	HDAM-23-12.0-S-13-1
23 x 13	62.06	19.41	SAM8648-ND	38.21	31.18	HDAM-23-17.0-S-13-1
Fig. 2 — HDAM Arrays — RoHS Compliant						
11 x 13	38.06	19.41	SAM8645-ND	23.08	18.81	HDAM-11-17.0-S-13-2
15 x 13	46.06	14.41	SAM8641-ND	28.24	23.02	HDAM-15-12.0-S-13-2
15 x 13	46.06	19.41	SAM8647-ND	28.86	23.53	HDAM-15-17.0-S-13-2
23 x 13	62.06	14.41	SAM8643-ND	38.38	31.49	HDAM-23-12.0-S-13-2
23 x 13	62.06	19.41	SAM8649-ND	38.21	31.18	HDAM-23-17.0-S-13-2

HIROSE ELECTRIC CO., LTD.

NEW! IT3 High-Speed BGA Mezzanine Connectors

With the ability to transmit differential, single-ended, and power through one package and being stackable, IT3 can solve your interface needs for both current and future generations. **FEATURES:** • Unique 3-piece structure for flexibility • Differential, single-ended, and power • Low mating/extraction forces • Wide misalignment tolerances for multiple connector use • Excellent reflow solderability • The differential return loss meets the extrapolated IEEE 802.3ap specification up to 12GHz **SPECIFICATIONS**: • Current Rating: 1.0A • Operating Temperature Range: -55°C ~ 85°C • Voltage Rating: 50Vrms • Insulation Resistance: 1,000MΩ, 100VDC • Withstanding Voltage: No flashover or insulation breakdown, 150V duty for 60 seconds (2mA max. leak) • Durability (Mating/Un-mating): 100 cycles **RECEPTACLE MATERIALS**: **Housing**: LCP - Black, UL 94V-0 **Contact**: Coppery Alloy • Contact Area: Gold (0.76μm) over Nickel (1.5μm) • Mounting Area: Gold (0.3μm) over Nickel (1.5μm) **INTERPOSER MATERIALS**: • Contact: Copper Alloy - Contact Area: Gold (0.76μm) over Nickel (1.5μm) • Ground Shield: Coppery Alloy

Fig. 1

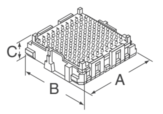

Fig. 2

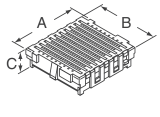

Fig. 3

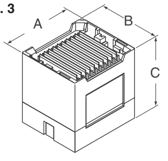

Fig.	No. of Pos.	Dimensions - mm			Digi-Key Part No.	Price Each		Hirose Part No.
		A	B	C		1	25	
Mating Receptacles								
1	100	20.1	19.2	6	H11785-ND	14.32	12.53	IT3D-100S-BGA(37)
	200	37.6	19.2	6	H11787-ND	18.05	16.85	IT3D-200S-BGA(37)
	300	55.1	19.2	6.3	H11789-ND	26.00	24.27	IT3D-300S-BGA(37)
	100	20.1	19.2	6	H11777-ND	14.32	12.53	IT3D-100S-BGA(57)
	200	37.6	19.2	6	H11781-ND	18.05	16.85	IT3D-200S-BGA(57)
	300	55.1	19.2	6.3	H11783-ND	26.00	24.27	IT3D-300S-BGA(57)
	180	37.6	19.2	6	H11779-ND	16.80	15.68	IT3D2-180S-BGA(57)
Mounting Receptacles								
2	100	20.1	19.2	6	H11786-ND	14.32	12.53	IT3M-100S-BGA(37)
	200	37.6	19.2	6	H11788-ND	18.05	16.85	IT3M-200S-BGA(37)
	300	55.1	19.2	6.3	H11790-ND	26.00	24.27	IT3M-300S-BGA(37)
	100	20.1	19.2	6	H11778-ND	14.32	12.53	IT3M-100S-BGA(57)
	200	37.6	19.2	6	H11782-ND	18.05	16.85	IT3M-200S-BGA(57)
	300	55.1	19.2	6.3	H11784-ND	26.00	24.27	IT3M-300S-BGA(57)
	180	37.6	19.2	6	H11780-ND	16.80	15.68	IT3M2-180S-BGA(57)
Interposer Assemblies								
3	200	41.5	21	15.8	H11791-ND	24.23	22.61	IT3-200P-17H(03)
	300	59	21	15.8	H11792-ND	35.13	32.79	IT3-300P-17H(03)
	100	24	21	18.8	H11860-ND	16.66	15.24	IT3-100P-20H(03)
	200	41.5	21	18.8	H11861-ND	25.47	23.78	IT3-200P-20H(03)
	300	59	21	18.8	H11862-ND	42.22	39.21	IT3-300P-20H(03)
	200	41.5	21	20.8	H11863-ND	25.97	24.24	IT3-200P-22H(03)
	300	59	21	20.8	H11864-ND	36.12	33.54	IT3-300P-22H(03)
	100	24	21	23.8	H11793-ND	16.90	15.46	IT3-100P-25H(03)
	200	41.5	21	23.8	H11795-ND	26.48	24.71	IT3-200P-25H(03)
	300	59	21	23.8	H11796-ND	36.13	33.56	IT3-300P-25H(03)
	100	24	21	24.8	H11797-ND	16.98	15.54	IT3-100P-26H(03)
	200	41.5	21	24.8	H11798-ND	27.06	25.26	IT3-200P-26H(03)
	300	59	21	24.8	H11799-ND	36.64	34.03	IT3-300P-26H(03)
	100	24	21	26.8	H11800-ND	15.06	14.06	IT3-100P-28H(03)
	200	41.5	21	26.8	H11802-ND	27.29	25.47	IT3-200P-28H(03)
	300	59	21	26.8	H11803-ND	36.92	34.29	IT3-300P-28H(03)
	200	41.5	21	28.8	H11804-ND	28.07	26.20	IT3-200P-30H(03)
	300	59	21	28.8	H11805-ND	37.95	35.25	IT3-300P-30H(03)
	200	41.5	21	30.8	H11806-ND	29.40	27.44	IT3-200P-32H(03)
	300	59	21	30.8	H11807-ND	38.14	35.42	IT3-300P-32H(03)
	300	59	21	38.8	H11808-ND	45.64	42.38	IT3-300P-40H(03)
	180	41.5	21	23.8	H11794-ND	25.01	23.34	IT3M2-180P-25H(03)
	180	41.5	21	26.8	H11801-ND	25.26	23.58	IT3M2-180P-28H(03)

molex®

1.00mm Pitch Pico-Clasp™ Wire-to-Board Connectors

The Pico-Clasp connector system from Molex was developed for various connections in Flat Panel Displays (FPD). The compact, small circuit size features of this system also make it ideal for other applications such as Notebook PC's and other compact devices.

Features: • Provides space saving for mounting other components • Prevents wire hooking • Latch protection and secure mating retention • Strong mating retention and clear click feeling • Easy connector insertion and extraction

Physical Specifications: *Headers*: • Color: Natural Resin • Durability: 30 cycles per minute • Contact: Phosphor Bronze Tin plated (*501331 and 501568*); Phosphor Bronze Gold plated (*501190*) • Polarized to Mating Part • Operating Temperature Range: -40°C ~ 85°C *Receptacles*: • Color: White Resin • Housing: Nylon Resin • Operating Temperature Range: -40°C ~ 85°C

Electrical Specifications: *Headers*: • Current Rating: 1.00A maximum • Voltage: 50V maximum *Receptacles*: • Current Rating: 1.00A maximum

Fig. 1

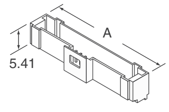

Fig. 2

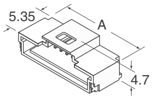

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Molex Part No.
Vertical, Single Row SMD Headers							
1	2	4.0	WM7879CT-ND	1.05	.93	.62	501331-0207
	2	4.0	WM7879TR-ND‡ ***NEW!***	476.30/1,100			501331-0207
	14	16.0	WM7891CT-ND	2.41	2.13	1.42	501331-1407
Right Angle, Single Row SMD Headers							
2	6	8.0	WM7897CT-ND	1.56	1.38	.92	501568-0607
	7	9.0	WM7898CT-ND	1.38	1.23	.82	501568-0707

‡ Tape and Reel

Panel Mate 1.25mm Connectors Ultra Low Profile

Fig. 1

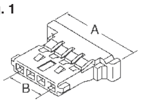

Fig. 2

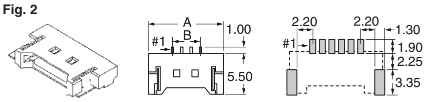

Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C ~ 85°C • Contact: Phosphor Bronze • Plating: Gold (Tin on SMT tails) • Solder Tabs: Phosphor Bronze, Tin plating
Electrical Specifications: • Voltage: 125V • Current: 1.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC • Insulation Resistance: 100MΩ minimum

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Receptacle Housing - Ultra Low Profile								
1	2	5.72	1.25	WM5400-ND	.38	.34	.23	51146-0200
	3	6.97	2.50	WM5401-ND	.52	.46	.31	51146-0300
	4	8.22	3.75	WM5402-ND	.65	.57	.38	51146-0400
	5	9.47	5.00	WM5403-ND	.75	.67	.45	51146-0500
	6	10.72	6.25	WM5404-ND	.86	.77	.51	51146-0600
	7	11.97	7.50	WM5405-ND	1.06	.94	.63	51146-0700
	9	14.47	10.00	WM5406-ND	1.29	1.14	.77	51146-0900
	14	20.72	16.25	WM5407-ND	1.94	1.71	1.15	51146-1400
Right Angle, SMT								
2	2	7.65	1.25	WM7600CT-ND†	1.80	1.60	1.07	53780-0270
	2	7.65	1.25	WM7600TR-ND‡	1057.50/1,500			53780-0270
	3	8.90	2.50	WM7601CT-ND†	2.09	1.85	1.24	53780-0370
	3	8.90	2.50	WM7601TR-ND‡	1225.50/1,500			53780-0370
	4	10.15	3.75	WM7660CT-ND†	2.52	2.23	1.49	53780-0470
	4	10.15	3.75	WM7660TR-ND‡	1479.00/1,500			53780-0470
	5	11.40	5.00	WM7602CT-ND†	2.76	2.44	1.63	53780-0570
	5	11.40	5.00	WM7602TR-ND‡	1618.50/1,500			53780-0570
	6	12.65	6.25	WM7603CT-ND†	1.86	1.58	1.22	53780-0670
	6	12.65	6.25	WM7603TR-ND‡	1411.58/1,500			53780-0670
	7	13.90	7.50	WM7604CT-ND†	3.23	2.86	1.91	53780-0770
	7	13.90	7.50	WM7604TR-ND‡	1894.50/1,500			53780-0770
	9	16.40	10.00	WM7605CT-ND†	2.39	2.12	1.41	53780-0970
	9	16.40	10.00	WM7605TR-ND‡	2071.50/1,500			53780-0970
	14	22.65	16.25	WM7661CT-ND†	4.36	3.86	2.57	53780-1470
	14	22.65	16.25	WM7661TR-ND‡	2557.50/1,500			53780-1470
Crimp Terminal 28 ~ 30AWG				WM5506-ND	.59	.53	.35	50641-8141
Crimp Terminal 28 ~ 30AWG				WM5506TR-ND‡	1600.00/25,000			50641-8041
Hand Crimper 28 ~ 32AWG				WM9805-ND	269.33/1			63811-7900

† Cut Tape ‡ Tape and Reel

PicoBlade™ 1.25mm Connectors

1.25mm Connectors: Physical Specifications: • Housing: PBTP, UL94V-0 • Temperature: -40°C ~ 85°C • UL File No.: E29179 CSA File-No.: LR19980
1.25mm Crimp Terminal: Electrical Specifications: • Voltage: 125V • Current: 1.0A (0.8A for 32AWG) • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC/1 minute • Insulation Resistance: 100MΩ minimum **Physical Specifications:** • Contact: Phosphor Bronze • Plating: Tin • Wire Range: 26 ~ 32AWG • Insulation Range: 1.00mm diameter maximum • Strip Length: 1.40mm ~ 1.90mm

Fig. 1 – 1.25mm Receptacle Housing

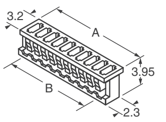

Fig. 2 – 1.25mm Straight Header

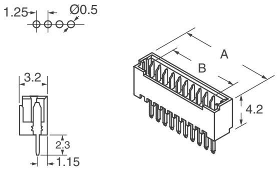

Fig. 3 – 1.25mm Right Angle Header

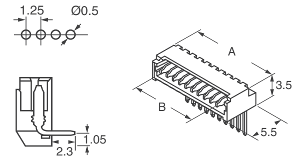

Fig. 4 – 1.25mm SMT Straight Header

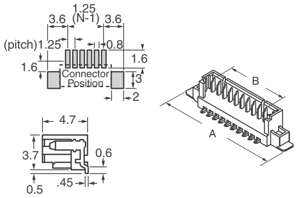

Fig. 5 – 1.25mm SMT Right Angle Header

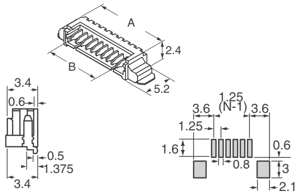

Fig. 6 – Crimp Terminal (Female)

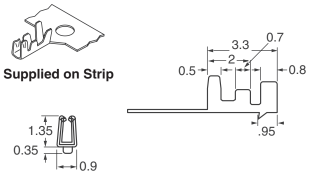

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
Receptacle Housing									
1	2	4.25	1.25	WM1720-ND	.32	.27	.20	.16	51021-0200
	3	5.50	2.50	WM1721-ND	.34	.28	.20	.16	51021-0300
	4	6.75	3.75	WM1722-ND	.46	.41	.27	.22	51021-0400
	5	8.00	5.00	WM1723-ND	.53	.47	.31	.25	51021-0500
	6	9.25	6.25	WM1724-ND	.59	.49	.35	.28	51021-0600
	7	10.50	7.50	WM1725-ND	.64	.54	.38	.31	51021-0700
	8	11.75	8.75	WM1726-ND	.70	.63	.42	.34	51021-0800
	9	13.00	10.00	WM1727-ND	.79	.50	.29	.23	51021-0900
	10	14.25	11.25	WM1728-ND	.82	.68	.49	.39	51021-1000
	11	15.50	12.50	WM1729-ND	.88	.73	.52	.42	51021-1100
	12	16.75	13.75	WM1730-ND	.94	.78	.56	.45	51021-1200
	13	18.00	15.00	WM17000-ND	1.00	.89	.59	.48	51021-1300
	14	19.25	16.25	WM17001-ND	1.06	.94	.63	.50	51021-1400
	15	20.50	17.50	WM17002-ND	1.11	.98	.66	.53	51021-1500
Straight Headers									
2	2	4.25	1.25	WM1731-ND	.63	.40	.23	.19	53047-0210
	3	5.50	2.50	WM1732-ND	.66	.59	.39	.31	53047-0310
	4	6.75	3.75	WM1733-ND	.66	.47	.32	.26	53047-0410
	5	8.00	5.00	WM1734-ND	.91	.75	.54	.43	53047-0510
	6	9.25	6.25	WM1735-ND	1.06	.75	.50	.41	53047-0610
	7	10.50	7.50	WM1736-ND	1.09	.76	.52	.42	53047-0710
	8	11.75	8.75	WM1737-ND	1.30	1.08	.77	.62	53047-0810
	9	13.00	10.00	WM1738-ND	1.43	1.27	.85	.68	53047-0910
	10	14.25	11.25	WM1739-ND	1.10	.86	.66	.53	53047-1010
	11	15.50	12.50	WM1740-ND	1.70	1.51	1.01	.81	53047-1110
	12	16.75	13.75	WM1741-ND	1.82	1.61	1.08	.86	53047-1210
	13	18.00	15.00	WM17003-ND	1.95	1.73	1.15	.92	53047-1310
	14	19.25	16.25	WM17004-ND	2.07	1.84	1.23	.98	53047-1410
	15	20.50	17.50	WM17005-ND	2.21	1.95	1.30	1.04	53047-1510
Right Angle Headers									
3	2	4.25	1.25	WM1742-ND	.62	.55	.37	.30	53048-0210
	3	5.50	2.50	WM1743-ND	.75	.67	.45	.36	53048-0310
	4	6.75	3.75	WM1744-ND	.88	.78	.52	.42	53048-0410
	5	8.00	5.00	WM1745-ND	1.01	.84	.60	.48	53048-0510
	6	9.25	6.25	WM1746-ND	1.14	1.01	.68	.54	53048-0610

† Cut Tape ‡ Tape and Reel

(Continued)

PicoBlade™ 1.25mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
3	7	10.50	7.50	WM1747-ND	1.28	1.13	.76	.61	53048-0710
	8	11.75	8.75	WM1748-ND	1.41	1.25	.83	.67	53048-0810
	9	13.00	10.00	WM1749-ND	1.54	1.36	.91	.73	53048-0910
	10	14.25	11.25	WM1750-ND	1.67	1.48	.99	.79	53048-1010
	11	15.50	12.50	WM1751-ND	1.81	1.60	1.07	.86	53048-1110
	12	16.75	13.75	WM1752-ND	1.94	1.72	1.15	.92	53048-1210
	13	18.00	15.00	WM17006-ND	2.07	1.84	1.23	.98	53048-1310
	14	19.25	16.25	WM17007-ND	2.22	1.96	1.31	1.05	53048-1410
	15	20.50	17.50	WM17008-ND	2.36	2.09	1.40	1.12	53048-1510
SMT Straight Headers									
4	2	7.65	1.25	WM7606CT-ND†	.97	.81	.61	.51	53398-0271
	2	7.65	1.25	WM7606TR-ND‡		487.20/1,000			53398-0271
	3	8.90	2.50	WM7607CT-ND†	1.18	.98	.73	.61	53398-0371
	3	8.90	2.50	WM7607TR-ND‡		589.76/1,000			53398-0371
	4	10.15	3.75	WM7608CT-ND†	1.84	1.63	1.09	.87	53398-0471
	4	10.15	3.75	WM7608TR-ND‡		719.00/1,000			53398-0471
	5	11.40	5.00	WM7609CT-ND†	1.45	1.20	.90	.75	53398-0571
	5	11.40	5.00	WM7609TR-ND‡		725.60/1,000			53398-0571
	6	12.65	6.25	WM7610CT-ND†	2.20	1.95	1.30	1.04	53398-0671
	6	12.65	6.25	WM7610TR-ND‡		860.00/1,000			53398-0671
	7	13.90	7.50	WM7611CT-ND†	2.38	2.11	1.41	1.13	53398-0771
	7	13.90	7.50	WM7611TR-ND‡		930.00/1,000			53398-0771
	8	15.15	8.75	WM7612CT-ND†	2.52	2.23	1.49	1.19	53398-0871
	8	15.15	8.75	WM7612TR-ND‡		986.00/1,000			53398-0871
	9	16.40	10.00	WM7613CT-ND†	2.73	2.42	1.61	1.29	53398-0971
	9	16.40	10.00	WM7613TR-ND‡		1068.00/1,000			53398-0971
	10	17.65	11.25	WM7614CT-ND†	2.90	2.56	1.71	1.37	53398-1071
	10	17.65	11.25	WM7614TR-ND‡		1133.00/1,000			53398-1071
	11	18.90	12.50	WM7615CT-ND†	3.08	2.72	1.82	1.45	53398-1171
	11	18.90	12.50	WM7615TR-ND‡		1203.00/1,000			53398-1171
	12	20.15	13.75	WM7616CT-ND†	3.26	2.88	1.92	1.54	53398-1271
	12	20.15	13.75	WM7616TR-ND‡		1274.00/1,000			53398-1271
	14	22.65	16.25	WM7618CT-ND†	3.63	3.21	2.14	1.71	53398-1471
	14	22.65	16.25	WM7618TR-ND‡		1417.00/1,000			53398-1471
	15	23.90	17.50	WM7619CT-ND†	3.72	3.28	2.19	1.75	53398-1571
	15	23.90	17.50	WM7619TR-ND‡		1451.00/1,000			53398-1571
SMT Right Angle Headers									
5	2	7.65	1.25	WM7620CT-ND†	1.02	.85	.64	.53	53261-0271
	2	7.65	1.25	WM7620TR-ND‡		512.80/1,000			53261-0271
	3	8.90	2.50	WM7621CT-ND†	1.24	1.03	.78	.65	53261-0371
	3	8.90	2.50	WM7621TR-ND‡		623.00/1,000			53261-0371
	4	10.15	3.75	WM7622CT-ND†	1.36	1.13	.85	.71	53261-0471
	4	10.15	3.75	WM7622TR-ND‡		682.08/1,000			53261-0471
	5	11.40	5.00	WM7623CT-ND†	1.50	1.24	.93	.78	53261-0571
	5	11.40	5.00	WM7623TR-ND‡		751.20/1,000			53261-0571
	6	12.65	6.25	WM7624CT-ND†	1.44	1.23	.95	.78	53261-0671
	6	12.65	6.25	WM7624TR-ND‡		731.96/1,000			53261-0671
	7	13.90	7.50	WM7625CT-ND†	1.55	1.32	1.02	.84	53261-0771
	7	13.90	7.50	WM7625TR-ND‡		788.00/1,000			53261-0771
	8	15.15	8.75	WM7626CT-ND†	1.65	1.40	1.08	.89	53261-0871
	8	15.15	8.75	WM7626TR-ND‡		836.51/1,000			53261-0871
	9	16.40	10.00	WM7627CT-ND†	2.81	2.48	1.66	1.33	53261-0971
	9	16.40	10.00	WM7627TR-ND‡		1096.00/1,000			53261-0971
	10	17.65	11.25	WM7628CT-ND†	1.89	1.60	1.24	1.02	53261-1071
	10	17.65	11.25	WM7628TR-ND‡		957.00/1,000			53261-1071
	11	18.90	12.50	WM7629CT-ND†	3.15	2.79	1.86	1.49	53261-1171
	11	18.90	12.50	WM7629TR-ND‡		1232.00/1,000			53261-1171
	12	20.15	13.75	WM7630CT-ND†	3.33	2.95	1.97	1.57	53261-1271
	12	20.15	13.75	WM7630TR-ND‡		1302.00/1,000			53261-1271
	14	22.65	16.25	WM7631CT-ND†	3.70	3.27	2.18	1.75	53261-1471
	14	22.65	16.25	WM7631TR-ND‡		1446.00/1,000			53261-1471
	15	23.90	17.50	WM7632CT-ND†	2.45	2.08	1.61	1.33	53261-1571
	15	23.90	17.50	WM7632TR-ND‡		1243.09/1,000			53261-1571
6	Crimp Term., 28 ~ 32AWG			WM1775-ND	—	.14	.07	.05	50058-8000
	Crimp Term., 28 ~ 32AWG			WM1775TR-ND‡		489.10/25,000			50058-8000
	Crimp Term., 26 ~ 28AWG			WM1142CT-ND†	—	.34	.10	.05	50079-8000
	Crimp Term., 26 ~ 28AWG			WM1142TR-ND‡		456.25/25,000			50079-8000
	Crimp Term., 26 ~ 28AWG			WM2023-ND	—	.36	.21	.17	50079-8100
Tools (Molex)									
Production Crimp				WM9932-ND		502.74/1			63811-0000
Hand Tool 26 ~ 32AWG Crimp				WM9984-ND ***NEW!***		203.49/1			63819-0300
Locator Assembly for 63819-0300				WM1193-ND ***NEW!***		37.80/1			63819-0375

† Cut Tape ‡ Tape and Reel

Kits

WM8453-ND (76650-0125) **PicoBlade Connector Kit**; Friction Lock Plug and Receptacle **$27.10**

WM8454-ND (76650-0126) **PicoBlade Connector Kit**; SMT Friction Lock Vertical Header and Receptacle **$39.87**

WM8455-ND (76650-0127) **PicoBlade Connector Kit**; SMT Friction Lock Right Angle Header and Receptacle **$44.30**

WM8456-ND (76650-0128) **PicoBlade Deluxe Connector Kit**; Friction Lock Plug, Receptacle and SMT Header **$96.81**

WM8457-ND (76650-0129) **PicoBlade Connector Kit**; SMT Friction Lock Vertical and Right Angle Header and Receptacle **$66.24**

1.5mm PICO SPOX™ Connectors

Features: • 2-15 circuits • Standard with center polarizing ramp • Lead in chamfer facilitates mating

Electrical: • Voltage: 350V, 50V (87439) • Current: 3.0A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1,000MΩ minimum

Physical: • Operating Temperature: -55°C ~ 105°C • Housing: Glass filled 6/6 nylon, UL 94V-0 • Headers: Color beige glass filled 4/6 nylon, UL 94V-0 • Contact: Brass Alloy • Plating: Tin over 1.27μm minimum Nickel

Fig. 1

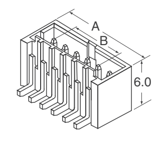

Fig. 2

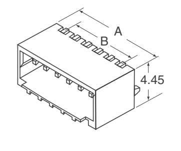

Fig. 3

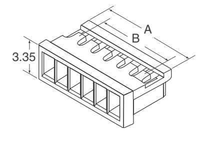

Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Molex Part No.
Fig. 1 — Vertical Headers										
5	8.80	6.00	WM18584CT-ND	1.44	1.27	.85	WM18584TR-ND	1,000	591.00	87437-0543
Fig. 1 — Vertical Headers — RoHS Compliant										
2	4.30	1.50	WM7662CT-ND	.97	.86	.58	WM7662TR-ND	1,000	401.00	87437-0243
3	5.80	3.00	WM7663CT-ND	.81	.68	.51	WM7623TR-ND	1,000	751.20	87437-0343
4	7.30	4.50	WM7664CT-ND	1.28	1.14	.76	WM7664TR-ND	1,000	528.85	87437-0443
6	10.30	7.50	WM7665CT-ND	1.59	1.41	.94	WM7665TR-ND	1,000	656.60	87437-0643
7	11.80	9.00	WM7666CT-ND	1.24	1.03	.77	WM7666TR-ND	1,000	562.00	87437-0743
8	13.30	10.50	WM7667CT-ND	1.91	1.69	1.13	WM7667TR-ND	1,000	787.00	87437-0843
9	14.80	12.00	WM7668CT-ND	2.04	1.81	1.21	WM7668TR-ND	1,000	841.00	87437-0943
10	16.30	13.50	WM7669CT-ND	2.18	1.93	1.29	WM7669TR-ND	1,000	897.00	87437-1043
12	19.30	16.50	WM7671CT-ND	1.58	1.31	.98	WM7671TR-ND	1,000	790.08	87437-1243
14	22.30	19.50	WM7673CT-ND	2.71	2.40	1.60	WM7673TR-ND	1,000	1117.00	87437-1443
15	23.80	21.00	WM7674CT-ND	2.85	2.52	1.68	WM7674TR-ND	1,000	1174.00	87437-1543
Fig. 2 — Right Angle Headers — RoHS Compliant										
2	4.30	1.50	WM7646CT-ND	.95	.84	.56	WM7646TR-ND	1,000	389.00	87438-0243
3	5.80	3.00	WM7647CT-ND	.86	.72	.53	WM7647TR-ND	3,000	325.00/M	87438-0343
4	7.30	4.50	WM7648CT-ND	.86	.72	.54	WM7648TR-ND	3,000	358.44/M	87438-0443
5	8.80	6.00	WM7649CT-ND	1.36	1.21	.81	WM7649TR-ND	1,000	562.00	87438-0543
6	10.30	7.50	WM7650CT-ND	1.57	1.39	.93	WM7650TR-ND	1,000	645.00	87438-0643
7	11.80	9.00	WM7651CT-ND	1.85	1.63	1.09	WM7651TR-ND	1,000	761.00	87438-0743
8	13.30	10.50	WM7652CT-ND	1.98	1.76	1.17	WM7652TR-ND	1,000	817.00	87438-0843
9	14.80	12.00	WM7653CT-ND	2.03	1.79	1.20	WM7653TR-ND	1,000	835.00	87438-0943
10	16.30	13.50	WM7654CT-ND	1.56	1.29	.97	WM7654TR-ND	2,000	708.76/M	87438-1043
11	17.80	15.00	WM7655CT-ND	2.37	2.10	1.40	WM7655TR-ND	1,000	977.00	87438-1143
12	19.30	16.50	WM7656CT-ND	2.55	2.25	1.50	WM7656TR-ND	1,000	1049.00	87438-1243
14	22.30	19.50	WM7658CT-ND	2.89	2.56	1.71	WM7658TR-ND	1,000	1191.00	87438-1443
Fig. 3 — Housing — RoHS Compliant										
2	4.10	1.50	WM2086-ND§	.23	.21	.14	—	—	—	87439-0200
3	5.60	3.00	WM2087-ND§	.26	.24	.16	—	—	—	87439-0300
4	7.10	4.50	WM2088-ND§	.38	.24	.12	—	—	—	87439-0400
5	8.60	6.00	WM2089-ND§	.31	.28	.19	—	—	—	87439-0500
6	10.10	7.50	WM2090-ND§	.34	.30	.20	—	—	—	87439-0600
7	11.60	9.00	WM2091-ND§	.38	.34	.23	—	—	—	87439-0700
8	13.10	10.50	WM2092-ND§	.40	.35	.24	—	—	—	87439-0800
9	14.60	12.00	WM2093-ND§	.41	.37	.25	—	—	—	87439-0900
10	16.10	13.50	WM2094-ND§	.42	.37	.25	—	—	—	87439-1000
11	17.60	15.00	WM2095-ND§	.43	.39	.26	—	—	—	87439-1100
14	22.10	19.50	WM2098-ND§	.48	.43	.29	—	—	—	87439-1400
15	23.60	21.00	WM2099-ND§	.50	.45	.30	—	—	—	87439-1500

§ Bulk

Description	Digi-Key Part No.	Pricing 10	100	Molex Part No.
Crimp Terminal 24 ~ 30AWG	WM1112-ND◆	.50	4.02	87421-0000-C
Hand Crimp Tool	WM9013-ND	203.49/1		63811-6400
Manual Wire Stripper	WM9969-ND	63.00/1		63817-0000
Blade Replacement Straight	WM9970-ND	29.70/1		63817-0070
Blade Replacement "V"	WM9971-ND	27.00/1		63817-0071

◆ *RoHS Compliant*

Kits

WM8431-ND◆ (76650-0003) **Pico-Spox Connector Kit**; SMT Vertical and Right Angle Header and Receptacle **$45.63**

WM8473-ND◆ (76650-0150) **Micro Miniature Application Kit**; Includes CLIK-Mate™, PanelMate™, Sherlock™, Pico-Spox and MicroClasp™ Product Families **$47.23**

WM8486-ND◆ (76650-0165) **PanelMate™ Connector Kit**; Ultra Low Profile SMT Right Angle Header and Receptacle **$49.18**

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex® 2.0mm Pitch Mi II™ Wire-to-Board Connectors

Specifications:
• Color: Natural Resin • Operating Temperature: -40°C ~ 105°C

Receptacle Housing:
Physical: • Contact: Polyester Resin • Flammability: 94V-0 **Electrical:** • CSA File No.: LR19980 • UL File No.: E29179

SMD Headers:
Physical: • Contact: Phosphor Bronze Tin Plated • Material: High Temperature Thermoplastic Resin **Electrical:** • Current: 1.50A maximum • Voltage: 125V maximum

Vertical and Right Angle Headers:
Physical: • Contact: Brass Tin Plated • Material: Nylon Resin • Flammability: 94V-0 **Electrical:** • Current: 2A maximum • Voltage: 125V maximum • CSA File No.: LR19980 • UL File No.: E29179

Fig. 1

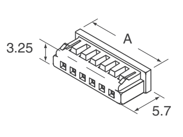

Fig. 2

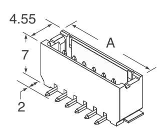

Fig. 3

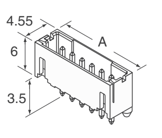

Fig. 4

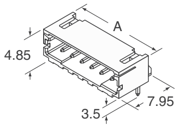

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			Receptacle Housing				
1	2	6.9	WM8287-ND	.25	2.21	14.70	51090-0200
	3	8.9	WM8288-ND	.29	2.54	16.93	51090-0300
	4	10.9	WM8289-ND	.33	2.87	19.15	51090-0400
	5	12.9	WM8290-ND	.37	3.27	21.83	51090-0500
	6	14.9	WM8291-ND	.41	3.61	24.05	51090-0600
	7	16.9	WM8292-ND	.45	3.95	26.30	51090-0700
	8	18.9	WM8293-ND	.48	4.28	28.53	51090-0800
	9	20.9	WM8294-ND	.52	4.61	30.75	51090-0900
	10	22.9	WM8295-ND	.57	5.01	33.43	51090-1000
	11	24.9	WM8296-ND	.61	5.35	35.65	51090-1100
	12	26.9	WM8297-ND	.65	5.75	38.35	51090-1200
	13	28.9	WM8298-ND	.69	6.09	40.58	51090-1300
	14	30.9	WM8299-ND	.73	6.48	43.23	51090-1400
	15	32.9	WM8300-ND	.79	6.95	46.35	51090-1500
			SMD Headers				
2	2	8.1	WM8301CT-ND*	.72	6.36	42.43	55460-0272
	2	8.1	WM8301TR-ND§		253.80/900		55460-0272
	3	10.1	WM8302CT-ND*	.84	6.97	52.27	55460-0372
	3	10.1	WM8302TR-ND§		403.92/900		55460-0372
	4	12.1	WM8303CT-ND*	1.18	10.42	69.45	55460-0472
	4	12.1	WM8303TR-ND§		414.90/900		55460-0472
	5	14.1	WM8304CT-ND*	1.38	12.15	81.00	55460-0572
	5	14.1	WM8304TR-ND§		484.20/900		55460-0572
	6	16.1	WM8305CT-ND*	1.57	13.89	92.63	55460-0672
	6	16.1	WM8305TR-ND§		553.50/900		55460-0672
	7	18.1	WM8306CT-ND*	1.84	16.21	108.05	55460-0772
	7	18.1	WM8306TR-ND§		645.30/900		55460-0772
	8	20.1	WM8307CT-ND*	1.97	17.36	115.75	55460-0872
	8	20.1	WM8307TR-ND§		692.10/900		55460-0872
	10	24.1	WM8308CT-ND*	2.49	21.99	146.63	55460-1072
	10	24.1	WM8308TR-ND§		876.60/900		55460-1072
	12	28.1	WM8309CT-ND*	2.95	26.04	173.63	55460-1272
	12	28.1	WM8309TR-ND§		1037.70/900		55460-1272
	13	30.1	WM8310CT-ND*	3.07	27.09	180.60	55460-1372
	13	30.1	WM8310TR-ND§		1079.10/900		55460-1372
	15	34.1	WM8311CT-ND*	3.61	31.89	212.60	55460-1572
	15	34.1	WM8311TR-ND§		1270.80/900		55460-1572

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			Vertical Headers				
3	2	7.3	WM8312-ND	.53	4.65	30.98	53324-0260
	3	9.3	WM8313-ND	.61	5.35	35.65	53324-0360
	4	11.3	WM8314-ND	.76	6.68	44.55	53324-0460
	5	13.3	WM8315-ND	.91	8.03	53.50	53324-0560
	6	15.3	WM8316-ND	1.06	9.36	62.40	53324-0660
	7	17.3	WM8317-ND	1.21	10.70	71.30	53324-0760
	8	19.3	WM8318-ND	1.36	12.03	80.23	53324-0860
	9	21.3	WM8319-ND	1.44	12.67	84.45	53324-0960
	10	23.3	WM8320-ND	1.52	13.37	89.15	53324-1060
	11	25.3	WM8321-ND	1.59	14.01	93.38	53324-1160
	12	27.3	WM8322-ND	1.67	14.71	98.05	53324-1260
	13	29.3	WM8323-ND	1.74	15.35	102.30	53324-1360
	14	31.3	WM8324-ND	1.82	16.04	106.95	53324-1460
	15	33.3	WM8325-ND	1.89	16.68	111.20	53324-1560
			Right Angle Headers				
4	2	7.3	WM8326-ND	.73	6.43	42.85	53325-0260
	3	9.3	WM8327-ND	.88	7.76	51.75	53325-0360
	4	11.3	WM8328-ND	1.03	9.11	60.70	53325-0460
	5	13.3	WM8329-ND	1.18	10.38	69.20	53325-0560
	6	15.3	WM8330-ND	1.33	11.72	78.10	53325-0660
	7	17.3	WM8331-ND	1.48	13.05	87.03	53325-0760
	8	19.3	WM8332-ND	1.63	14.39	95.93	53325-0860
	9	21.3	WM8333-ND	1.77	15.66	104.40	53325-0960
	10	23.3	WM8334-ND	1.93	17.00	113.33	53325-1060
	11	25.3	WM8335-ND	2.07	18.27	121.80	53325-1160
	12	27.3	WM8336-ND	2.22	19.61	130.73	53325-1260
	13	29.3	WM8337-ND	2.37	20.88	139.20	53325-1360
	14	31.3	WM8338-ND	2.52	22.22	148.10	53325-1460
	15	33.3	WM8339-ND	2.67	23.55	157.03	53325-1560
			Crimp Contacts and Tools				
Crimp Terminal, 24 ~ 30AWG Contact: Phosphor Bronze Plating: Tin			WM6050-ND	—	3.70	18.51	50212-8100
Crimp Tool, 24 ~ 30AWG			WM9027-ND	269.33	—	—	63819-0500

* Cut Tape § Tape and Reel

2.0mm Sherlock™ Connectors

Features: • Positive locking provides secure mating retention • Four-wall shroud with guide plate protects pins and facilitates mating • Compact low-profile design for space savings • Polarizing end walls prevent mismating

Electrical: • Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ minimum

Physical: • Housing: Polyamide, UL 94V-0 • Housing Contact: Brass • Plating: Tin • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig. 1

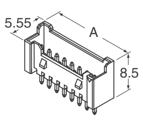

Fig. 2

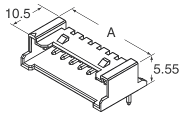

Fig. 3

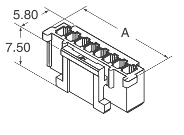

Fig. 4

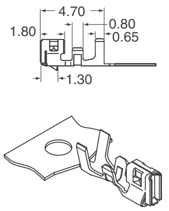

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			Vertical Headers				
1	2	7.70	WM18920-ND	.38	3.33	22.23	35362-0250
	3	9.70	WM18921-ND	.46	4.08	27.23	35362-0350
	4	10.30	WM18922-ND	.53	4.70	31.30	35362-0450
	5	12.30	WM18923-ND	.65	5.71	38.08	35362-0550
	6	14.30	WM18924-ND	.71	6.26	41.75	35362-0650
	7	16.30	WM18925-ND	.79	7.01	46.75	35362-0750
	8	18.30	WM18926-ND	.93	8.16	54.43	35362-0850
	9	20.30	WM18927-ND	1.00	8.85	58.98	35362-0950
	10	22.30	WM18928-ND	1.10	9.73	64.88	35362-1050
	11	24.30	WM18929-ND	1.16	10.20	68.03	35362-1150
	12	26.30	WM18930-ND	1.22	10.75	71.65	35362-1250
			Right Angle Headers				
2	2	7.70	WM18931-ND	.69	4.26	24.48	35363-0260
	3	9.70	WM18932-ND	.55	4.83	32.20	35363-0360
	4	10.30	WM18933-ND	.59	5.24	34.95	35363-0460
	5	12.30	WM18934-ND	.71	6.26	41.75	35363-0560
	6	14.30	WM18935-ND	.76	6.73	44.89	35363-0660
	7	16.30	WM18936-ND	.87	7.69	51.25	35363-0760
	8	18.30	WM18937-ND	.99	8.71	58.06	35363-0860
	9	20.30	WM18938-ND	1.06	9.32	62.15	35363-0960
	10	22.30	WM18939-ND	1.16	10.20	68.03	35363-1060
	12	26.30	WM18941-ND	1.29	11.36	75.73	35363-1260

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			Crimp Housing				
3	2	7.20	WM5981-ND	.20	1.77	11.80	35507-0200
	3	9.20	WM5982-ND	.23	2.04	13.60	35507-0300
	4	10.30	WM5983-ND	.26	2.31	15.43	35507-0400
	5	12.30	WM5984-ND	.29	2.59	17.25	35507-0500
	6	14.30	WM5985-ND	.32	2.79	18.58	35507-0600
	7	16.30	WM5986-ND	.35	3.06	20.40	35507-0700
	8	18.30	WM5987-ND	.38	3.33	22.23	35507-0800
	9	20.30	WM5988-ND	.39	3.47	23.13	35507-0900
	10	22.30	WM5989-ND	.41	3.60	24.03	35507-1000
	11	24.30	WM5990-ND	.42	3.75	24.98	35507-1100
	12	26.30	WM5991-ND	.45	3.95	26.33	35507-1200
			Crimp Contacts and Tools				
4	Crimp Terminal, 24 ~30AWG, Contact: Phosphor Bronze, Plating: Tin		WM6050-ND	—	3.70	18.51	50212-8100
—	Crimp Tool, 24 ~ 30AWG		WM9027-ND	269.33	—	—	63819-0500
	Extraction Hand Tool		WM8340-ND	2.67	23.55	157.03	53325-1560

Kits

WM8441-ND (76650-0113) **Micro-Latch™ Connector Kit**;
(Friction Lock Right Angle Header and Receptacle)..**$13.42**

WM8479-ND (76650-0156) **Sherlock Connector Kit**;
(Secure and Space Saving Vertical and Right Angle Header and Receptacle) **$16.19**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

2.0mm Milli-Grid™ Connectors

Headers: Electrical: • Current: 2.0A • Dielectric Withstanding Voltage: 500V (Shrouded Vertical, SMT, and Right Angle: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: 4/6 nylon, UL 94V-0 (Right Angle: Black glass-filled polyester, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15μ" Select Gold • Temperature: -55°C ~ 105°C

Receptacle: Electrical: • Voltage: 125V • Current: 1.0A • Contact Resistance: 25mΩ maximum (Side Entry, Side Entry SMT, and Top/Bottom Entry: 15mΩ maximum) • Dielectric Withstanding Voltage: 500VAC (Top/Bottom Entry: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Black glass-filled polyester, UL 94V-0 (Top/Bottom Entry: Black LCP, UL 94V-O, Side Entry and Side Entry SMT: Black nylon, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15μ" Select Gold • Temperature: -55°C ~ 105°C

Crimp Terminal: Electrical: • Voltage: 125V • Current: **26AWG:** 1.5A, **28AWG:** 1.0A, and **30AWG:** 0.5A • Contact Resistance: 40mΩ maximum **Physical:** • Contact: Phosphor Bronze • Plating: 15μ" Select Gold • Temperature: -40°C ~ 105°C • Wire Range: 24-30AWG • Insulation Range: 1.40mm diameter maximum

Crimp Housing: Physical: • Housing: Black glass-filled polyester, UL 94V-0 • Temperature: -55°C ~ 105°C

Fig. 1 – Vertical

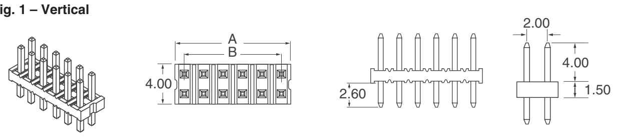

Fig. 2 – Right Angle

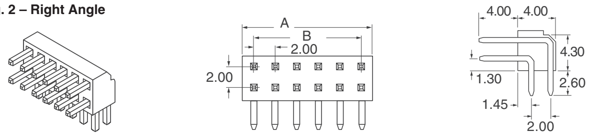

Fig. 3 – Shrouded Vertical

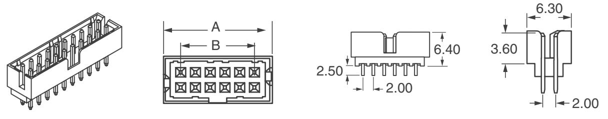

Fig. 4 – Shrouded Right Angle

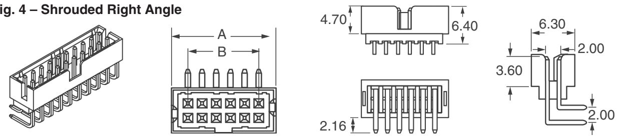

Fig. 5 – Shrouded SMT

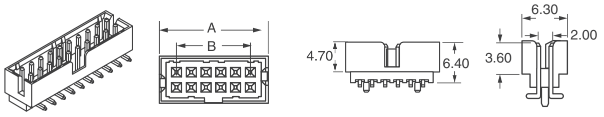

Fig. 6 – Vertical SMT

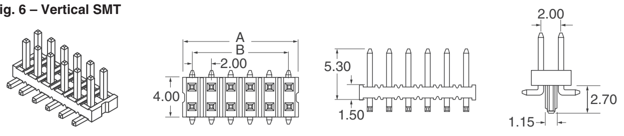

Fig. 7 – Vertical, Dual Row Through-Hole

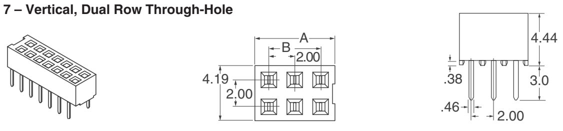

Fig. 8 – Side Entry

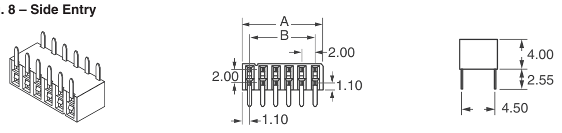

Fig. 9 – Side Entry SMT

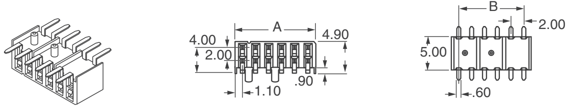

Fig. 10 – Top/Bottom Entry SMT (VLPR2)

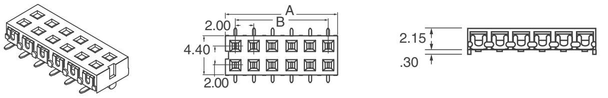

Fig. 11 – Vertical, Dual Row Top/Bottom Entry, SMT

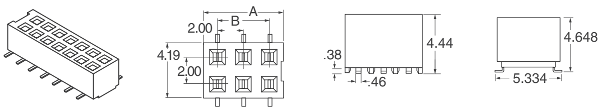

Fig. 12 – Crimp Housing

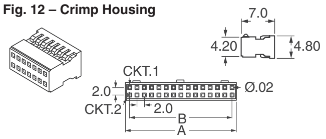

Fig. 13 – Crimp Terminal

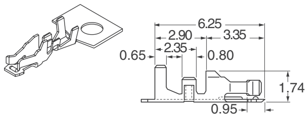

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
Vertical Headers								
1	4	3.90	2.00	WM18833-ND	.67	5.95	39.65	87758-0416
	6	5.90	4.00	WM18834-ND	.77	5.36	35.96	87758-0616
	8	7.90	6.00	WM18835-ND	1.05	9.25	61.65	87758-0816
	10	9.90	8.00	WM18836-ND	1.18	10.37	69.15	87758-1016
	12	11.90	10.00	WM18837-ND	1.41	12.48	83.23	87758-1216
	14	13.90	12.00	WM18838-ND	1.47	12.95	86.30	87758-1416
	16	15.90	14.00	WM18839-ND	1.57	13.87	92.48	87758-1616
	18	17.90	16.00	WM18840-ND	1.77	15.65	104.35	87758-1816
	20	19.90	18.00	WM18841-ND	2.10	18.56	123.75	87758-2016
	22	21.90	20.00	WM18842-ND	2.31	20.41	136.08	87758-2216
	24	23.90	22.00	WM18843-ND	2.38	21.00	140.03	87758-2416
	26	25.90	24.00	WM18844-ND	2.73	24.05	160.30	87758-2616
	28	27.90	26.00	WM18845-ND	2.93	25.89	172.63	87758-2816
	30	29.90	28.00	WM18846-ND	2.99	26.42	176.13	87758-3016
	32	31.90	30.00	WM18847-ND	3.07	27.08	180.55	87758-3216
	34	33.90	32.00	WM18848-ND	3.12	27.54	183.63	87758-3416
	36	35.90	34.00	WM18849-ND	3.30	29.13	194.23	87758-3616
	40	39.90	38.00	WM18851-ND	3.67	32.37	215.78	87758-4016
	42	41.90	40.00	WM18852-ND	3.86	34.02	226.78	87758-4216
	44	43.90	42.00	WM18853-ND	4.03	35.60	237.35	87758-4416
	46	45.90	44.00	WM18854-ND	4.22	37.25	248.35	87758-4616
	48	47.90	46.00	WM18855-ND	4.40	38.84	258.93	87758-4816
	50	49.90	48.00	WM18856-ND	4.12	36.33	242.18	87758-5016
Right Angle Headers								
2	4	4.00	2.00	WM18612-ND	.76	6.71	44.70	87760-0416
	6	6.00	4.00	WM18613-ND	.74	6.56	43.75	87760-0616
	8	8.00	6.00	WM18614-ND	1.03	9.13	60.88	87760-0816
	10	10.00	8.00	WM18615-ND	1.46	12.84	85.60	87760-1016
	12	12.00	10.00	WM18616-ND	1.57	13.85	92.30	87760-1216
	14	14.00	12.00	WM18617-ND	1.66	14.63	97.53	87760-1416
	16	16.00	14.00	WM18618-ND	1.75	15.41	102.75	87760-1616
	18	18.00	16.00	WM18619-ND	1.96	17.34	115.58	87760-1816
	20	20.00	18.00	WM18620-ND	2.18	19.26	128.43	87760-2016
	22	22.00	20.00	WM18621-ND	2.21	19.49	129.95	87760-2216
	24	24.00	22.00	WM18622-ND	2.19	19.30	128.65	87760-2416
	26	26.00	24.00	WM18623-ND	2.61	23.04	153.60	87760-2616
	30	30.00	28.00	WM18625-ND	3.01	26.58	177.20	87760-3016
	32	32.00	30.00	WM18626-ND	3.12	27.57	183.78	87760-3216
	34	34.00	32.00	WM18627-ND	3.20	28.22	188.15	87760-3416
	36	36.00	34.00	WM18628-ND	3.27	28.88	192.53	87760-3616
	40	40.00	38.00	WM18630-ND	3.42	30.19	201.28	87760-4016
	44	44.00	42.00	WM18632-ND	3.57	31.50	210.03	87760-4416
	50	50.00	48.00	WM18635-ND	3.35	29.54	196.93	87760-5016
Shrouded Vertical Headers								
3	4	6.65	2.00	WM18557-ND	1.15	10.18	67.85	87831-0420
	6	8.65	4.00	WM18558-ND	1.26	11.16	74.38	87831-0620
	8	10.65	6.00	WM18559-ND	1.09	9.65	64.33	87831-0820
	10	12.65	8.00	WM18560-ND	1.35	11.88	79.18	87831-1020
	12	14.65	10.00	WM18561-ND	1.61	14.24	94.95	87831-1220
	14	16.65	12.00	WM17469-ND	1.66	12.91	98.48	87831-1420
	16	18.65	14.00	WM18562-ND	2.03	17.92	119.45	87831-1620
	18	20.65	16.00	WM18563-ND	2.83	24.95	166.30	87831-1820
	20	22.65	18.00	WM18564-ND	2.69	23.76	158.40	87831-2020
	22	24.65	20.00	WM18586-ND	2.97	26.19	174.58	87831-2220
	24	26.65	22.00	WM17470-ND	3.24	28.55	190.35	87831-2420
	30	32.65	28.00	WM18565-ND	4.04	35.64	237.58	87831-3020
	40	42.65	38.00	WM18566-ND	5.39	47.58	317.23	87831-4020
	44	46.65	42.00	WM18567-ND	5.93	52.31	348.75	87831-4420
	50	52.65	48.00	WM18568-ND	6.73	59.40	396.00	87831-5020
Shrouded Right Angle Headers								
4	4	6.65	2.00	WM18858-ND	1.32	11.62	77.45	87833-0420
	6	8.65	4.00	WM18859-ND	1.41	12.47	83.13	87833-0620
	8	10.65	6.00	WM18860-ND	1.45	12.80	85.33	87833-0820
	10	12.65	8.00	WM18861-ND	1.50	13.19	87.95	87833-1020
	12	14.65	10.00	WM18862-ND	1.79	15.82	105.45	87833-1220
	14	16.65	12.00	WM18863-ND	2.10	18.51	123.38	87833-1420
	16	18.65	14.00	WM18864-ND	2.40	21.14	140.90	87833-1620
	18	20.65	16.00	WM18865-ND	2.69	23.76	158.40	87833-1820
	20	22.65	18.00	WM18866-ND	2.99	26.38	175.88	87833-2020

† Leaded * Cut Tape ‡ Tape and Reel

(Continued)

molex® 2.0mm Milli-Grid™ Connectors *(Cont.)*

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
4	22	24.65	20.00	WM18867-ND	3.30	29.08	193.85	87833-2220
	24	26.65	22.00	WM18868-ND	3.59	31.70	211.35	87833-2420
	30	32.65	28.00	WM18869-ND	4.49	39.57	263.83	87833-3020
	40	42.65	38.00	WM18870-ND	5.99	52.84	352.25	87833-4020
	44	46.65	42.00	WM18871-ND	6.58	58.08	387.23	87833-4420
	50	52.65	48.00	WM18872-ND	7.48	66.03	440.20	87833-5020
Shrouded SMT Headers								
5	4	6.65	2.00	WM18636-ND	1.43	12.64	84.28	87832-0420
	6	8.65	4.00	WM18637-ND	1.79	15.80	105.35	87832-0620
	8	10.65	6.00	WM18638-ND	1.96	17.25	115.03	87832-0820
	10	12.65	8.00	WM18639-ND	1.46	11.33	86.42	87832-1020
	12	14.65	10.00	WM18640-ND	2.23	19.69	131.25	87832-1220
	14	16.65	12.00	WM18641-ND	1.81	15.08	111.68	87832-1420
	16	18.65	14.00	WM18642-ND	2.64	23.34	155.58	87832-1620
	18	20.65	16.00	WM18643-ND	3.13	27.65	184.33	87832-1820
	20	22.65	18.00	WM18644-ND	3.03	26.74	178.28	87832-2020
	22	24.65	20.00	WM18645-ND	3.66	32.33	215.53	87832-2220
	24	26.65	22.00	WM18646-ND	3.72	32.82	218.78	87832-2420
	26	28.65	24.00	WM18718-ND	3.94	34.76	231.75	87832-2620
	30	32.65	28.00	WM18647-ND	4.44	39.20	261.33	87832-3020
	34	36.65	32.00	WM18719-ND	4.92	43.39	289.28	87832-3420
	40	42.65	38.00	WM18648-ND	5.54	48.92	326.13	87832-4020
	44	46.65	42.00	WM18649-ND	6.09	53.78	358.53	87832-4420
	50	52.65	48.00	WM18650-ND	6.93	61.14	407.58	87832-5020
Vertical SMT Headers								
6	4	3.90	2.00	WM18712-ND	.96	8.51	56.70	87759-0414
	6	5.90	4.00	WM18713-ND	1.39	12.27	81.83	87759-0614
	8	7.90	6.00	WM18651-ND	2.32	20.49	136.63	87759-0850
	10	9.90	8.00	WM18652-ND	1.77	15.63	104.18	87759-1050
	12	11.90	10.00	WM18653-ND	2.07	18.23	121.55	87759-1250
	14	13.90	12.00	WM18654-ND	2.22	19.57	130.45	87759-1450
	16	15.90	14.00	WM18655-ND	2.42	21.39	142.60	87759-1650
	18	17.90	16.00	WM18656-ND	2.60	22.97	153.15	87759-1850
	20	19.90	18.00	WM18657-ND	2.75	24.31	162.05	87759-2050
	22	21.90	20.00	WM18658-ND	3.03	26.74	178.28	87759-2250
	24	23.90	22.00	WM18659-ND	3.15	27.78	185.20	87759-2450
	26	25.90	24.00	WM18660-ND	3.58	31.60	210.65	87759-2650
	28	27.90	26.00	WM18661-ND†	3.86	34.03	226.88	87759-2850
	30	29.90	28.00	WM18662-ND	3.93	34.64	230.95	87759-3050
	32	31.90	30.00	WM18663-ND	4.19	36.95	246.33	87759-3250
	34	33.90	32.00	WM18664-ND	4.45	39.26	261.73	87759-3450
	36	35.90	34.00	WM18665-ND	4.71	41.57	277.10	87759-3650
	38	37.90	36.00	WM18666-ND	4.96	43.76	291.70	87759-3850
	40	39.90	38.00	WM18667-ND	10.72	94.56	630.38	87759-4050
	44	43.90	42.00	WM18669-ND	5.45	48.13	320.83	87759-4450
	46	45.90	44.00	WM18670-ND	4.45	39.26	261.73	87759-4650
	48	47.90	46.00	WM18671-ND	4.71	41.57	277.10	87759-4850
	50	49.90	48.00	WM18672-ND	6.20	54.69	364.63	87759-5050
Board-to-Board Receptacle Vertical, Dual Row Through-Hole								
7	4	4.19	2.00	WM18673-ND	1.75	15.44	102.90	79107-7001
	6	6.19	4.00	WM18674-ND	1.99	17.57	117.10	79107-7002
	8	8.19	6.00	WM18675-ND	2.23	19.69	131.25	79107-7003
	10	10.19	8.00	WM18676-ND	2.47	21.81	145.43	79107-7004
	12	12.19	10.00	WM18677-ND	2.71	23.94	159.63	79107-7005
	14	14.19	12.00	WM18678-ND	2.89	25.52	170.15	79107-7006
	16	16.19	14.00	WM18679-ND	3.15	27.77	185.15	79107-7007
	18	18.19	16.00	WM18680-ND	3.39	29.90	199.30	79107-7008
	20	20.19	18.00	WM18681-ND	3.55	31.36	209.05	79107-7009
	22	22.19	20.00	WM18682-ND	3.71	32.75	218.35	79107-7010
	24	24.19	22.00	WM18683-ND	4.05	35.73	238.20	79107-7011
	30	30.19	28.00	WM18684-ND	5.06	44.67	297.78	79107-7014
	40	40.19	38.00	WM18685-ND	6.76	59.61	397.43	79107-7019
	44	44.19	42.00	WM18686-ND	7.43	65.57	437.15	79107-7021
	50	50.19	48.00	WM18687-ND	8.44	74.51	496.70	79107-7024
Receptacle — Side Entry								
8	8	8.20	6.00	WM19036-ND	2.59	22.84	152.25	87264-0852
	10	10.20	8.00	WM19037-ND	2.83	25.01	166.70	87264-1052
	12	12.20	10.00	WM19038-ND	3.09	27.24	181.58	87264-1252
	14	14.20	12.00	WM19039-ND	3.33	29.40	196.03	87264-1452
	16	16.20	14.00	WM19040-ND	3.59	31.64	210.93	87264-1652
	18	18.20	16.00	WM19041-ND	3.83	33.80	225.33	87264-1852
	20	20.20	18.00	WM19042-ND	4.08	36.03	240.20	87264-2052
	26	26.20	24.00	WM19045-ND	5.11	45.09	300.60	87264-2652
	32	32.20	30.00	WM19048-ND	5.85	51.66	344.38	87264-3252
	44	44.20	42.00	WM19054-ND	7.35	64.85	432.30	87264-4452
	50	50.20	48.00	WM19057-ND	8.09	71.41	476.05	87264-5052
Receptacle — Side Entry SMT								
9	14	14.20	12.00	WM19060-ND	5.14	45.33	302.23	87368-1424
	16	16.20	14.00	WM19061-ND	5.37	47.40	316.03	87368-1624
	18	18.20	16.00	WM19062-ND	5.68	50.13	334.23	87368-1824
	20	20.20	18.00	WM19063-ND	5.82	51.35	342.35	87368-2024
	40	40.20	38.00	WM19073-ND	9.64	85.08	567.18	87368-4024
	44	44.20	42.00	WM19075-ND	11.02	97.23	648.23	87368-4424
Receptacle — Top/Bottom Entry SMT (VLPR2)								
10	4	4.00	2.00	WM18688-ND	1.20	10.58	70.50	87340-0424
	6	6.00	4.00	WM18689-ND	1.70	14.99	99.95	87340-0624
	8	8.00	6.00	WM18690-ND	2.36	20.81	138.73	87340-0824
	10	10.00	8.00	WM18691-ND	2.62	23.09	153.95	87340-1024
	12	12.00	10.00	WM18692-ND	3.13	27.65	184.33	87340-1224
	14	14.00	12.00	WM18693-ND	4.25	37.50	249.98	87340-1424
	16	16.00	14.00	WM18694-ND	4.75	41.93	279.55	87340-1624
	18	18.00	16.00	WM18695-ND	5.17	45.58	303.88	87340-1824
	20	20.00	18.00	WM18696-ND	5.51	48.62	324.13	87340-2024
Board-to-Board Receptacle Vertical, Dual Row Top/Bottom Entry SMT								
11	4	4.19	2.00	WM18697-ND	1.93	17.02	113.45	79109-1001
	6	6.19	4.00	WM18698-ND	2.19	19.32	128.83	79109-1002
	8	8.19	6.00	WM18699-ND	2.45	21.64	144.25	79109-1003
	10	10.19	8.00	WM18700-ND	2.72	24.00	160.03	79109-1004
11	12	12.19	10.00	WM18701-ND	2.99	26.37	175.83	79109-1005
	14	14.19	12.00	WM18702-ND	3.18	28.08	187.18	79109-1006
	16	16.19	14.00	WM18703-ND	3.46	30.51	203.40	79109-1007
	18	18.19	16.00	WM18704-ND	3.73	32.88	219.18	79109-1008
	20	20.19	18.00	WM18705-ND	3.90	34.46	229.70	79109-1009
	22	22.19	20.00	WM18706-ND	4.08	36.03	240.23	79109-1010
	24	24.19	22.00	WM18707-ND	4.46	39.32	262.15	79109-1011
	30	30.19	28.00	WM18708-ND	5.57	49.16	327.75	79109-1014
	40	40.19	38.00	WM18709-ND	7.43	65.57	437.15	79109-1019
	44	44.19	42.00	WM18710-ND	8.18	72.14	480.90	79109-1021
	50	50.19	48.00	WM18711-ND	9.28	81.92	546.10	79109-1024
Crimp Housing — Standard								
12	4	4.20	2.00	WM18030-ND	.29	2.52	16.78	51110-0450
	6	6.20	4.00	WM18031-ND	.41	3.60	24.03	51110-0650
	8	8.20	6.00	WM18032-ND	.45	3.95	26.33	51110-0850
	10	10.20	8.00	WM18033-ND	.48	4.22	28.13	51110-1050
	12	12.20	10.00	WM18034-ND	.50	4.42	29.48	51110-1250
	14	14.20	12.00	WM18035-ND	.59	5.17	34.45	51110-1450
	16	16.20	14.00	WM18036-ND	.69	6.12	40.80	51110-1650
	18	18.20	16.00	WM18037-ND	.76	6.67	44.48	51110-1850
	20	20.20	18.00	WM18038-ND	.84	7.42	49.45	51110-2050
	22	22.20	20.00	WM18039-ND	.93	8.16	54.43	51110-2250
	24	24.20	22.00	WM18040-ND	1.01	8.91	59.43	51110-2450
	26	26.20	24.00	WM18041-ND	1.09	9.59	63.95	51110-2650
	28	28.20	26.00	WM18042-ND	1.17	10.34	68.93	51110-2850
	30	30.20	28.00	WM18043-ND	1.26	11.09	73.93	51110-3050
Crimp Housing with Polarization Keys								
12	4	4.20	2.00	WM18576-ND	.30	2.67	17.83	51110-0460
	6	6.20	4.00	WM18577-ND	.43	3.83	25.53	51110-0660
	8	8.20	6.00	WM18044-ND	.51	3.19	18.33	51110-0851
	10	10.20	8.00	WM18045-ND	.48	4.22	28.13	51110-1051
	12	12.20	10.00	WM18046-ND	.50	4.42	29.48	51110-1251
	14	14.20	12.00	WM18047-ND	.59	5.17	34.45	51110-1451
	16	16.20	14.00	WM18048-ND	.69	6.12	40.80	51110-1651
	18	18.20	16.00	WM18049-ND	.76	6.67	44.48	51110-1851
	20	20.20	18.00	WM18050-ND	.84	7.42	49.45	51110-2051
	22	22.20	20.00	WM18051-ND	.93	8.16	54.43	51110-2251
	24	24.20	22.00	WM18052-ND	1.01	8.91	59.43	51110-2451
	26	26.20	24.00	WM18053-ND	1.09	9.59	63.95	51110-2651
	28	28.20	26.00	WM18054-ND	1.17	10.34	68.93	51110-2851
	30	30.20	28.00	WM18055-ND	1.26	11.09	73.93	51110-3051
13	Crimp Terminal (24 ~ 30AWG)			WM1128-ND	—	2.43	10.76	50394-8100
	Crimp Terminal (24 ~ 30AWG)			WM1128CT-ND*	—	—	18.53	50394-8051
	Crimp Terminal (24 ~ 30AWG)			WM1128TR-ND‡	1653.00/40,000			50394-8051
	Crimp Terminal (24 ~ 30AWG)			WM2139-ND	—	1.77	14.16	50394-8200
	Crimp Terminal (24 ~ 30AWG)			WM2139TR-ND‡	522.00/10,000			50394-8052
—	Housing Extraction			WM9934-ND	227.43	—	—	11-03-0045
	Crimp Socket (24 ~ 30AWG)			WM9020-ND	269.33	—	—	63819-0100

† Leaded * Cut Tape ‡ Tape and Reel

Kits

WM8496-ND (76650-0175) **Milli-Grid Connector Kit**;
(Vertical and Right Angle Header, IDT Receptacle) **$55.45**

WM8504-ND (76650-0187) **Milli-Grid Connector Kit**;
(Shrouded Gold Vertical Header and Receptacle)..................................... **$16.36**

WM8505-ND (76650-0188) **Milli-Grid Connector Kit**;
(Vertical Header and IDT Receptacle) **$54.90**

WM8510-ND (76650-0195) **Milli-Grid Deluxe Connector Kit**;
(Rectangle Free Hanging Header and Housing)....................................... **$71.04**

MicroBlade™ 2.0mm Connectors

Header Specifications: Electrical: • Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 min. • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Glass filled 6/6 nylon, UL 94V-0 • Contact: Tin plated phosphor bronze • Operating Temperature: -20°C ~ 85°C • UL File No. E29179 • CSA File No. LR19980

Receptacle Specifications: Physical: Housing: PBTP, UL94V-0 • Operating Temperature: -20°C ~ 85°C • UL File No. E29179 • CSA File No. LR19980

Fig. 1

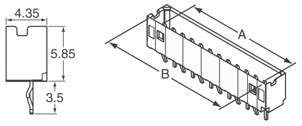

Fig. 2

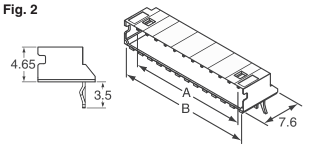

Fig. 3

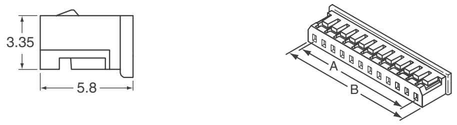

No. of Pos.	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
Fig. 1 — Vertical Headers							
2	2	6	WM18966-ND	.53	4.68	31.20	53014-0210
3	4	8	WM18967-ND	.61	5.35	35.65	53014-0310
4	6	10	WM18994-ND	.68	6.02	40.10	53014-0410
5	8	12	WM18968-ND	.76	6.68	44.55	53014-0510
6	10	14	WM18969-ND	.91	8.03	53.50	53014-0610

† Cut Tape ‡ Tape and Reel

(Continued)

MicroBlade™ 2.0mm Connectors
(Cont.)

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
7	12	16	WM18970-ND	1.06	9.36	62.40	53014-0710
8	14	18	WM18971-ND	1.21	10.70	71.30	53014-0810
9	16	20	WM18972-ND	1.36	12.03	80.23	53014-0910
10	18	22	WM18973-ND	1.52	13.37	89.15	53014-1010
11	20	24	WM18974-ND	1.67	14.71	98.05	53014-1110
12	22	26	WM18975-ND	1.82	16.04	106.95	53014-1210
13	24	28	WM18976-ND	1.97	17.38	115.85	53014-1310
14	26	30	WM18977-ND	2.12	18.72	124.80	53014-1410
15	28	32	WM18978-ND	2.27	20.06	133.70	53014-1510
			Fig. 2 — Right Angle Headers				
2	2	6	WM18979-ND	.53	4.68	31.20	53015-0210
3	4	8	WM18980-ND	.61	5.35	35.65	53015-0310
4	6	10	WM18981-ND	.68	6.02	40.10	53015-0410
5	8	12	WM18982-ND	.76	6.68	44.55	53015-0510
6	10	14	WM18983-ND	.91	8.03	53.50	53015-0610
7	12	16	WM18984-ND	1.06	9.36	62.40	53015-0710
8	14	18	WM18995-ND	1.21	10.70	71.30	53015-0810
9	16	20	WM18985-ND	1.36	12.03	80.23	53015-0910
10	18	22	WM18986-ND	1.52	13.37	89.15	53015-1010
11	20	24	WM18987-ND	1.67	14.71	98.05	53015-1110
12	22	26	WM18988-ND	1.82	16.04	106.95	53015-1210
13	24	28	WM18989-ND	1.97	17.38	115.85	53015-1310
14	26	30	WM18990-ND	2.12	18.72	124.80	53015-1410
15	28	32	WM18991-ND	2.27	20.06	133.70	53015-1510
			Fig. 3 — Receptacles				
2	2	4.9	WM18951-ND	.39	3.48	23.20	51004-0200
3	4	6.9	WM18952-ND	.46	4.08	27.18	51004-0300
4	6	8.9	WM18953-ND	.55	4.88	32.55	51004-0400
5	8	10.9	WM18954-ND	.62	5.48	36.55	51004-0500
6	10	12.9	WM18955-ND	.70	6.22	41.45	51004-0600
7	12	14.9	WM18956-ND	.79	6.95	46.35	51004-0700
8	14	16.9	WM18957-ND	.86	7.62	50.80	51004-0800
9	16	18.9	WM18958-ND	.95	8.36	55.73	51004-0900
10	18	20.9	WM18959-ND	1.01	8.96	59.70	51004-1000
11	20	22.9	WM18960-ND	1.10	9.69	64.63	51004-1100
12	22	24.9	WM18961-ND	1.18	10.43	69.53	51004-1200
13	24	26.9	WM18962-ND	1.26	11.10	74.00	51004-1300
14	26	28.9	WM18963-ND	1.33	11.77	78.45	51004-1400
15	28	30.9	WM18964-ND	1.41	12.44	82.90	51004-1500
			Contacts				
Crimp Socket – Tin (24 ~ 30AWG)			WM18992-ND	.45	4.01	26.75	50011-8100
Crimp Socket – Tin (24 ~ 30AWG)			WM18965CT-ND†	.34	2.06	10.30	50011-8000
Crimp Socket – Tin (24 ~ 30AWG)			WM18965TR-ND‡	493.00/10,000			50011-8000
Crimp Socket (24 ~ 30AWG)			WM9020-ND	269.33/1			63819-0100
Locator Assembly for 63819-0100			WM1196-ND ***NEW!***	37.80/1			63819-0175

† Cut Tape ‡ Tape and Reel

Kits

WM8543-ND (76650-0106) **Micro-Blade Connector Kit**;
(Friction Lock Vertical and Right Angle Header and Receptacle) **$34.40**

WM8544-ND (76650-0108) **Micro-Blade Connector Kit**;
(Friction Lock Right Angle Header and Receptacle)................................... **$35.44**

WM8545-ND (76650-0109) **Micro-Blade Connector Kit**;
(Friction Lock Vertical Header and Receptacle) **$35.37**

iGrid™ 2.0mm Connectors

Header Specifications: • Color: Natural • Material: Tin plated Brass • Operating Temperature: -25°C ~ 85°C • Maximum Current: 2.0A • Maximum Voltage: 250V

Receptacle Specifications: • Color: Beige • Material: Nylon • Operating Temperature Range: -25°C ~ 85°C

Fig. 1

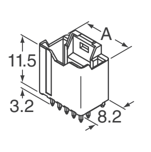

Fig. 2

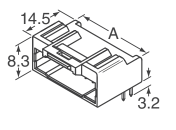

Fig. 3

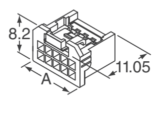

Fig.	No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
			Vertical Headers				
1	10	12	WM6072-ND	1.20	1.07	.71	501645-1020
	12	14	WM6073-ND	2.09	1.85	1.23	501645-1220
	14	16	WM6074-ND	1.34	1.19	.79	501645-1420
	16	18	WM6075-ND	1.49	1.32	.88	501645-1620
	18	20	WM6076-ND	1.54	1.36	.91	501645-1820
	20	22	WM6077-ND	3.13	2.77	1.85	501645-2020
	22	24	WM6078-ND	1.78	1.57	1.05	501645-2220
	24	26	WM6079-ND	1.97	1.74	1.16	501645-2420
	26	28	WM6080-ND	3.51	3.10	2.07	501645-2620
	28	30	WM6081-ND	4.02	3.55	2.37	501645-2820
	30	32	WM6082-ND	4.18	3.69	2.46	501645-3020
	32	34	WM6083-ND	4.35	3.85	2.57	501645-3220
	34	36	WM6084-ND	4.51	3.99	2.66	501645-3420
	36	38	WM6085-ND	5.11	4.52	3.01	501645-3620
			Right Angle Headers				
2	10	12	WM6086-ND	1.44	1.28	.85	501876-1040
	12	14	WM6087-ND	1.58	1.40	.94	501876-1240
	14	16	WM6088-ND	1.71	1.51	1.01	501876-1440
	16	18	WM6089-ND	1.86	1.64	1.10	501876-1640
	24	26	WM6090-ND	2.61	2.31	1.54	501876-2440
	26	28	WM6091-ND	3.51	3.11	2.07	501876-2640
	34	36	WM6092-ND	4.94	4.36	2.91	501876-3440
	36	38	WM6093-ND	5.13	4.53	3.03	501876-3640
			Receptacles				
3	10	12	WM6058-ND	2.38	2.10	1.40	501646-1000
	12	14	WM6059-ND	2.58	2.28	1.52	501646-1200
	14	16	WM6060-ND	1.16	1.03	.69	501646-1400
	16	18	WM6061-ND	1.32	1.17	.78	501646-1600
	18	20	WM6062-ND	2.87	2.54	1.70	501646-1800
	20	22	WM6063-ND	1.62	1.43	.96	501646-2000
	22	24	WM6064-ND	3.96	3.50	2.34	501646-2200
	24	26	WM6065-ND	1.80	1.60	1.07	501646-2400
	26	28	WM6066-ND	3.13	2.77	1.85	501646-2600
	28	30	WM6067-ND	3.22	2.85	1.90	501646-2800
	30	32	WM6068-ND	3.38	2.98	1.99	501646-3000
	32	34	WM6069-ND	3.55	3.14	2.10	501646-3200
	34	36	WM6070-ND	3.69	3.26	2.18	501646-3400
	36	38	WM6071-ND	5.62	4.97	3.31	501646-3600
Female Terminal, (22 ~ 26AWG)			WM6057CT-ND†	—	.11	.09	501647-1000
Female Terminal, (22 ~ 26AWG)			WM6057TR-ND‡	688.00/16,000			501647-1000
Hand Crimp Tool, (22 ~ 26AWG)			WM9997-ND	982.80/1			578021-5300

† Cut Tape ‡ Tape and Reel

Kits

WM8513-ND (76650-0199) **iGrid Connector Kit**;
(Positive Lock Vertical Header and Receptacle, 10 ~ 18 pin).......................... **$30.21**

WM8514-ND (76650-0200) **iGrid Connector Kit**;
(Positive Lock Vertical Header and Receptacle, 20 ~ 28 pin).......................... **$45.35**

WM8515-ND (76650-0201) **iGrid Connector Kit**;
(Positive Lock Right Angle Header and Receptacle, 10 ~ 18 pin) **$31.74**

WM8516-ND (76650-0202) **iGrid Connector Kit**;
(Positive Lock Right Angle Header and Receptacle, 20 ~ 28 pin) **$46.11**

Micro-Latch™ 2.0mm Connectors

Electrical Performance: • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum

Header Specifications: • Material: Tin plated Brass • Operating Temperature: -40°C ~ 105°C • Maximum Current: 2.0A • Maximum Voltage: 125V

Receptacle Specifications: • Color: Natural • Material: Nylon • Operating Temperature Range: -40°C ~ 105°C

Fig. 1

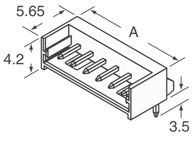

Fig. 2

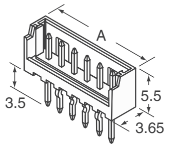

Fig. 3

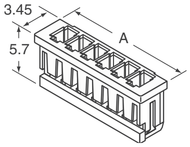

Fig.	No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			Right Angle Headers				
1	2	6.0	WM18999-ND	.27	2.37	15.83	53254-0270
	3	8.0	WM19000-ND	.32	2.80	18.65	53254-0370
	4	10.0	WM19001-ND	.37	3.23	21.50	53254-0470
	5	12.0	WM19002-ND	.41	3.65	24.30	53254-0570
	6	14.0	WM19003-ND	.46	4.08	27.18	53254-0670
			Vertical Headers				
2	2	6.0	WM19004-ND	.21	1.82	12.16	53253-0270
	3	8.0	WM19005-ND	.24	2.13	14.20	53253-0370
	4	10.0	WM19006-ND	.29	2.56	17.04	53253-0470
	5	12.0	WM19007-ND	.34	2.98	19.85	53253-0570
	6	14.0	WM19008-ND	.39	3.47	23.11	53253-0670
			Receptacles				
3	2	5.8	WM19009-ND	.11	.98	6.50	51065-0200
	3	7.8	WM19010-ND	.14	1.21	8.08	51065-0300
	4	9.8	WM19011-ND	.16	1.40	9.33	51065-0400
	5	11.8	WM19012-ND	.19	1.64	10.95	51065-0500
	6	13.8	WM19013-ND	.21	1.83	12.18	51065-0600
			Crimp Contacts and Tools				
Crimp Terminal, (24 ~ 30AWG) Contact: Phosphor Bronze, Plating: Tin			WM6050-ND	—	3.70	18.51	50212-8100
Crimp Tool (24 ~ 30AWG)			WM9027-ND	269.33	—	—	63819-0500
Locator Assembly for 63819-0500			WM1192-ND ***NEW!***	37.80			63819-0575

Kits

WM8440-ND (76650-0112) **Micro-Latch Connector Kit**;
(Friction Lock Vertical Header and Receptacle) **$13.61**

WM8442-ND (76650-0114) **Micro-Latch Connector Kit**;
(Friction Lock Vertical and Right Angle Header and Receptacle)...................... **$20.12**

WM8444-ND (76650-0116) **Mini-Lock™ Connector Kit**;
(Fully Shrouded Positive Lock Right Angle Header and Receptacle)................. **$17.02**

2.0mm Wire to Wire Connectors

FEATURES: • Sizes 2 ~ 5 circuits • Very thin design
ELECTRICAL: • Voltage: 125V • Current: 2A maximum • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 minute • Insulation Resistance: 1000MΩ minimum
SPECIFICATIONS: • Housing: PBTP, UL 94V-0 • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig. 1

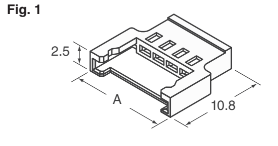

Fig. 2

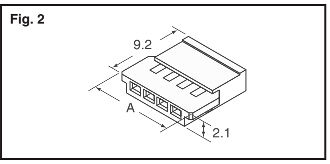

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Plug							
1	2	8	WM8347-ND	.43	3.83	25.53	51006-0200
	3	10	WM8341-ND	.53	4.68	31.20	51006-0300
	4	12	WM8342-ND	.61	5.41	36.04	51006-0400
	5	14	WM8343-ND	.68	6.02	40.10	51006-0500
Receptacle							
2	2	6.6	WM8348-ND	.42	3.70	24.70	51005-0200
	3	8.6	WM8349-ND	.48	4.19	27.95	51005-0300
	4	10.6	WM8350-ND	.56	4.92	32.83	51005-0400
	5	12.6	WM8351-ND	.61	5.41	36.04	51005-0500
Tool and Terminals							
Crimp Hand Tool, 24 ~ 28AWG			WM8346-ND	269.33	—	—	63811-7800
Male Terminal, 24 ~ 28AWG			WM8344-ND	.36	3.16	21.08	50012-8100
Female Terminal, 24 ~ 28AWG			WM8345-ND	.36	3.16	21.08	50013-8100

2.50mm and 3.96mm SPOX™ Connectors

FEATURES:

• Sizes 2 ~ 15 circuits • Very low profile • Molded-in pull tabs • Friction lock

ELECTRICAL:

• Voltage: 250V • Current: 3A maximum • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 1000VAC/1 minute • Insulation Resistance: 1000MΩ minimum

SPECIFICATIONS:

• Housing: 6/6 nylon, UL 94V-0 • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig. 1

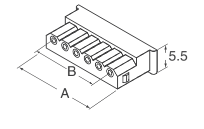

Fig. 2

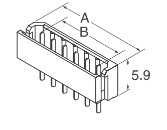

Fig. 3

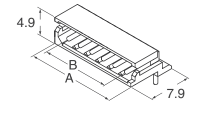

Fig. 4

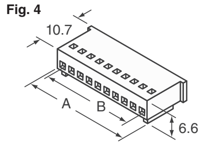

Fig. 5

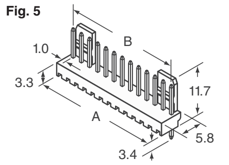

Fig. 6

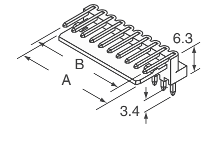

Fig. 7

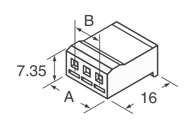

Fig. 8

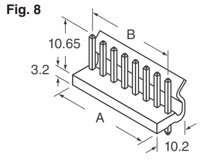

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Receptacle Housing 2.50mm (Mates with Fig. 2 & 3)								
1	2	5.80	2.50	WM18873-ND	.34	3.00	19.98	50-37-5023
	3	8.30	5.00	WM18874-ND	.42	3.75	24.98	50-37-5033
	4	10.80	7.50	WM17405-ND	.51	4.49	29.95	50-37-5043
	5	13.30	10.00	WM18875-ND	.59	5.24	34.93	50-37-5053
	6	15.80	12.50	WM18876-ND	.68	5.99	39.90	50-37-5063
	7	18.30	15.00	WM18877-ND	.76	6.74	44.90	50-37-5073
	8	20.80	17.50	WM18878-ND	.85	7.48	49.88	50-37-5083
	9	23.30	20.00	WM18879-ND	.93	8.23	54.85	50-37-5093
	10	25.80	22.50	WM18880-ND	1.02	8.99	59.90	50-37-5103
	12	30.80	27.50	WM18882-ND	1.19	10.48	69.85	50-37-5123
	14	35.80	32.50	WM18884-ND	1.31	11.60	77.33	50-37-5143
	15	38.30	35.00	WM18885-ND	1.36	11.97	79.83	50-37-5153
Vertical Headers Fully Shrouded 2.50mm								
2	2	7.40	2.50	WM18886-ND	.90	5.59	32.13	22-03-5025
	3	9.90	5.00	WM18887-ND	.89	7.89	52.58	22-03-5035
	4	12.40	7.50	WM18888-ND	1.05	9.29	61.93	22-03-5045
	5	14.90	10.00	WM18889-ND	1.20	10.56	70.40	22-03-5055
	6	17.40	12.50	WM18890-ND	1.35	11.90	79.33	22-03-5065
	7	19.90	15.00	WM18891-ND	1.50	13.23	88.23	22-03-5075
	8	22.40	17.50	WM18892-ND	1.66	14.64	97.60	22-03-5085
	9	24.90	20.00	WM18893-ND	1.82	16.04	106.95	22-03-5095
	10	27.40	22.50	WM18894-ND	1.98	17.45	116.30	22-03-5105
	11	29.90	25.00	WM18895-ND	2.13	18.78	125.23	22-03-5115
	14	37.40	32.50	WM18898-ND	2.58	22.80	151.98	22-03-5145
	15	39.90	35.00	WM18899-ND	2.75	24.26	161.75	22-03-5155
Right Angle Fully Shrouded 2.50mm								
3	2	7.40	2.50	WM18900-ND	.78	6.87	45.80	22-05-7025
	3	9.90	5.00	WM18901-ND	.90	7.96	53.08	22-05-7035
	4	12.40	7.50	WM18902-ND	1.05	9.24	61.58	22-05-7045
	5	14.90	10.00	WM18903-ND	1.18	10.45	69.68	22-05-7055
	6	17.40	12.50	WM18904-ND	1.32	11.61	77.38	22-05-7065
	7	19.90	15.00	WM18905-ND	1.46	12.88	85.88	22-05-7075
	8	22.40	17.50	WM18906-ND	1.60	14.10	94.00	22-05-7085
	9	24.90	20.00	WM18907-ND	1.73	15.25	101.68	22-05-7095
Receptacle Housing 2.50mm (Mates with Fig. 5 & 6)								
4	2	6.00	2.50	WM18769-ND	.30	2.61	17.40	22-01-1024
	3	8.50	5.00	WM18770-ND	.36	3.16	21.08	22-01-1034
	4	11.00	7.50	WM18771-ND	.42	3.71	24.70	22-01-1044
	5	13.50	10.00	WM18772-ND	.47	4.13	27.55	22-01-1054
	6	16.00	12.50	WM18773-ND	.52	4.62	30.78	22-01-1064
	7	18.50	15.00	WM18774-ND	.58	5.10	34.03	22-01-1074
	8	21.00	17.50	WM18775-ND	.63	5.59	37.28	22-01-1084
	9	23.50	20.00	WM18776-ND	.70	6.14	40.93	22-01-1094
	10	26.00	22.50	WM18777-ND	.74	6.56	43.75	22-01-1104
	11	28.50	25.00	WM18778-ND	.81	7.11	47.40	22-01-1114
	12	31.00	27.50	WM18779-ND	.85	7.54	50.25	22-01-1124
	13	33.50	30.00	WM18780-ND	.90	7.96	53.08	22-01-1134
	14	36.00	32.50	WM18781-ND	.97	8.57	57.13	22-01-1144
	15	38.50	35.00	WM18782-ND	1.03	9.12	60.78	22-01-1154
Vertical Headers 2.50mm Tin								
5	2	4.50	2.50	WM18785-ND	.92	8.09	53.93	22-04-1021
	3	7.00	5.00	WM18786-ND	1.10	9.69	64.63	22-04-1031
	4	9.50	7.50	WM18787-ND	1.30	11.50	76.65	22-04-1041
	5	12.00	10.00	WM18788-ND	1.49	13.17	87.80	22-04-1051
	6	14.50	12.50	WM18789-ND	1.70	14.97	99.83	22-04-1061
	7	17.00	15.00	WM18790-ND	1.73	15.31	102.05	22-04-1071
	8	19.50	17.50	WM18791-ND	2.14	18.86	125.70	22-04-1081
	9	22.00	20.00	WM18792-ND	2.33	20.52	136.83	22-04-1091
	10	24.50	22.50	WM18793-ND	2.45	21.59	143.95	22-04-1101
	11	27.00	25.00	WM18794-ND	2.76	24.33	162.20	22-04-1111
	12	29.50	27.50	WM18795-ND	2.91	25.67	171.10	22-04-1121
	13	32.00	30.00	WM18796-ND	3.05	26.94	179.60	22-04-1131
5	14	34.50	32.50	WM18797-ND	3.44	30.35	202.33	22-04-1141
	15	37.00	35.00	WM18798-ND	3.61	31.82	212.13	22-04-1151
Headers 2.50mm Right Angle Tin								
6	3	7.00	5.00	WM18800-ND	1.74	15.38	102.50	22-05-1032
	4	9.50	7.50	WM18801-ND	2.02	17.85	119.00	22-05-1042
	5	12.00	10.00	WM18802-ND	2.20	19.39	129.25	22-05-1052
	6	14.50	12.50	WM18803-ND	2.47	21.80	145.30	22-05-1062
	7	17.00	15.00	WM18804-ND	2.70	23.80	158.65	22-05-1072
	8	19.50	17.50	WM18805-ND	2.96	26.14	174.28	22-05-1082
	9	22.00	20.00	WM18806-ND	3.20	28.21	188.08	22-05-1092
	10	24.50	22.50	WM18807-ND	3.36	29.62	197.45	22-05-1102
	11	27.00	25.00	WM18808-ND	3.70	32.62	217.48	22-05-1112
	12	29.50	27.50	WM18809-ND	3.89	34.36	229.08	22-05-1122
	13	32.00	30.00	WM18810-ND	4.07	35.90	239.33	22-05-1132
	14	34.50	32.50	WM18811-ND	4.48	39.51	263.38	22-05-1142
	15	37.00	35.00	WM18812-ND	4.68	41.31	275.43	22-05-1152
Receptacle Housing 3.96mm (Mates with Fig. 8)								
7	2	9.06	3.96	WM18813-ND	.73	6.48	43.23	09-50-1021
	3	13.02	7.92	WM18814-ND	.78	5.45	36.59	09-50-1031
	4	16.98	11.88	WM18815-ND	.98	8.62	57.48	09-50-1041
	5	20.94	15.84	WM18816-ND	1.15	10.16	67.73	09-50-1051
	6	24.90	19.80	WM18817-ND	1.27	11.23	74.88	09-50-1061
	7	28.86	23.76	WM18818-ND	1.42	12.57	83.78	09-50-1071
	8	32.82	27.72	WM18819-ND	1.57	13.84	92.25	09-50-1081
Headers 3.96mm								
8	2	7.16	3.96	WM18823-ND	.62	5.47	36.48	09-65-2028
	3	11.12	7.92	WM18824-ND	.80	7.05	46.98	09-65-2038
	4	15.08	11.88	WM18825-ND	1.07	9.48	63.20	09-65-2048
	5	19.04	15.84	WM18826-ND	1.31	11.55	76.98	09-65-2058
	6	23.00	19.80	WM18827-ND	1.59	14.04	93.60	09-65-2068
	7	26.96	23.76	WM18828-ND	1.87	16.47	109.80	09-65-2078
	8	30.92	27.72	WM18829-ND	2.14	18.84	125.60	09-65-2088

Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Terminals for SPOX 2.50mm					
Crimp Terminal, 22 ~ 28AWG	WM17406-ND	—	2.51	20.10	08-70-1040
Crimp Terminal, 22 ~ 28AWG	WM18889CT-ND†	—	—	12.68	08-70-1039
Crimp Terminal, 22 ~ 28AWG	WM18889TR-ND‡	282.75/10,000			08-70-1039
Tool and Terminals for SPOX 3.96mm					
Crimp Hand Tool, 18 ~ 24AWG	WM18715-ND	203.49	—	—	63811-6500
Female Terminal, 18 ~ 24AWG	WM18820CT-ND†	—	—	7.80	08-70-1031
Female Terminal, 18 ~ 24AWG	WM18820TR-ND‡	210.00/5,000			08-70-1031
Female Terminal, 18 ~ 24AWG	WM18820-ND	—	2.67	21.39	08-70-1030
Female Terminal, 18 ~ 24AWG	WM18821TR-ND‡	370.00/5,000			39-00-0021
Female Terminal, 18 ~ 24AWG	WM18821-ND	.45	3.95	26.33	39-00-0022
Female Terminal, 22 ~ 28AWG	WM2141-ND	—	2.61	20.88	08-70-1028
Tool and Terminal for Mini-SPOX™					
Crimp Hand Tool, 22 ~ 28AWG	WM18830-ND	203.49	—	—	63811-5200
Female Terminal, 22 ~ 28AWG	WM18783-ND	.15	1.36	9.09	08-70-0057
NEW! Tool NEW!					
Extractor Tool	WM5148-ND	37.80	364.50	3375.00	0638131400

† Cut Tape ‡ Tape and Reel

Kits

WM8488-ND	(76650-0167) **Mini-SPOX™ Connector Kit**; (Vertical and Right Angle Header and Receptacle)	**$36.74**
WM8539-ND	(76650-0225) **Mini-Latch™ Connector Kit**; (Friction Lock Vertical Header and Receptacle)	**$11.05**
WM8540-ND	(76650-0226) **Mini-Latch Connector Kit**; (Friction Lock Right Angle Header and Receptacle)	**$14.53**
WM8541-ND	(76650-0227) **Mini-Latch Deluxe Connector Kit**; (Friction Lock Vertical and Right Angle Header and Receptacle)	**$25.96**

NEW! HARWiN Datamate 2mm Connectors

Datamate L-Tek

Features: • High Reliability • Suited for use in environments where high vibration, shock and extreme temperatures are a consideration • Professional Connector System at commercial prices • All L-Tek Connectors are intermatable • Ideal for COTS applications • Three Options for Latching • Locking Latch - opening in latch locks onto mating connector • Friction Latch - solid latch allows retention to mating half • Unlatched - contact provides mating retention **Specifications: Materials:** • Mouldings: Glass-filled thermoplastic UL94V-0 • Female Contacts: Brass shell, with beryllium copper inner contact • Male Contacts: Phosphor bronze **Electrical:** • Current (all contacts simultaneously): 3.0A maximum @ 25°C, 2.2A maximum @ 85°C • Working Voltage: 240 (DC or AC peak) • Contact resistance: 25mΩ maximum • Insulation resistance: 100MΩ @ 500VDC **Mechanical:** • Durability: 500 operations **Environmental:** • Operational temperature: -55°C ~ 125°C/56 days at 95% RH

Fig. 1

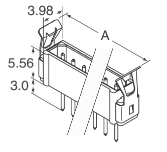

Fig. 2

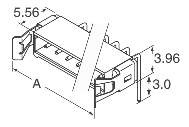

Fig. 3

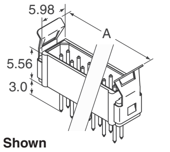

With Latch Shown

Fig. 4

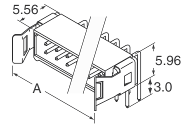

With Latch Shown

Fig. 5

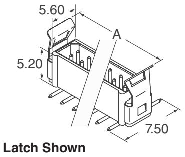

With Latch Shown

Fig. 6

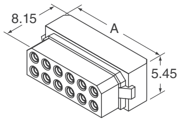

Fig. 7

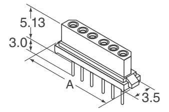

Fig. 8

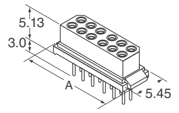

Fig. 9

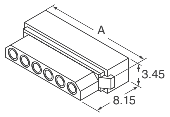

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
				1	10	50	100	
Male Headers								
Single Row, Vertical, PCB, with Latch								
1	2	8.1	952-1069-5-ND	2.67	2.21	1.84	1.66	M80-8820242
	3	10.1	952-1070-5-ND	2.76	2.29	1.91	1.72	M80-8820342
	4	12.1	952-1071-5-ND	2.87	2.38	1.98	1.79	M80-8820442
	5	14.1	952-1072-5-ND	2.66	2.26	1.95	1.74	M80-8820542
	6	16.1	952-1073-5-ND	2.73	2.31	2.00	1.79	M80-8820642
	7	18.1	952-1074-5-ND	2.83	2.40	2.08	1.86	M80-8820742
	17	38.1	952-1075-5-ND	3.95	3.35	2.89	2.59	M80-8821742
Single Row, Right Angle, PCB, with Latch								
2	2	8.1	952-1076-5-ND	2.91	2.47	2.13	1.91	M80-8420242
	3	10.1	952-1077-5-ND	2.99	2.53	2.19	1.96	M80-8420342
	4	12.1	952-1078-5-ND	3.07	2.60	2.25	2.01	M80-8420442
	5	14.1	952-1079-5-ND	3.17	2.69	2.32	2.08	M80-8420542
	6	16.1	952-1080-5-ND	3.25	2.75	2.38	2.13	M80-8420642
	7	18.1	952-1081-5-ND	3.35	2.84	2.46	2.20	M80-8420742
	17	38.1	952-1082-5-ND	4.48	3.80	3.28	2.94	M80-8421742
Dual Row, Vertical, PCB, without Latch								
3	4	7.55	952-1083-5-ND	1.83	1.52	1.26	1.14	M80-8540442
	6	9.55	952-1084-5-ND	2.09	1.73	1.44	1.30	M80-8540642
	8	11.55	952-1085-5-ND	2.38	1.97	1.64	1.48	M80-8540842
	10	13.55	952-1086-5-ND	2.61	2.16	1.80	1.62	M80-8541042
	12	15.55	952-1087-5-ND	2.90	2.40	2.00	1.80	M80-8541242
	14	17.55	952-1088-5-ND	2.83	2.40	2.08	1.86	M80-8541442
	16	19.55	952-1089-5-ND	3.41	2.89	2.49	2.23	M80-8541642
	18	21.55	952-1090-5-ND	3.64	3.08	2.66	2.38	M80-8541842
	20	23.55	952-1091-5-ND	3.90	3.30	2.85	2.55	M80-8542042
	26	29.55	952-1092-5-ND	4.63	3.92	3.39	3.03	M80-8542642
	34	37.55	952-1093-5-ND	5.59	4.73	4.09	3.66	M80-8543442
Dual Row, Vertical, PCB, with Latch								
3	4	8.1	952-1094-5-ND	3.07	2.60	2.25	2.01	M80-8530442
	6	10.1	952-1095-5-ND	3.25	2.75	2.38	2.13	M80-8530642
	8	12.1	952-1096-5-ND	3.46	2.93	2.53	2.27	M80-8530842
	10	14.1	952-1097-5-ND	3.64	3.08	2.66	2.38	M80-8531042
	12	16.1	952-1098-5-ND	4.13	3.50	3.03	2.71	M80-8531242
	14	18.1	952-1099-5-ND	4.29	3.63	3.14	2.81	M80-8531442
	16	20.1	952-1100-5-ND	4.47	3.79	3.27	2.93	M80-8531642
	18	22.1	952-1101-5-ND	4.68	3.96	3.42	3.06	M80-8531842
	20	24.1	952-1102-5-ND	4.87	4.12	3.56	3.19	M80-8532042
	26	30.1	952-1103-5-ND	5.44	4.61	3.98	3.57	M80-8532642
	34	38.1	952-1104-5-ND	6.21	5.26	4.55	4.07	M80-8533442
Dual Row, Vertical, PCB, with Friction Latch								
3	4	8.1	952-1105-5-ND	3.07	2.60	2.25	2.01	M80-8630442
	6	10.1	952-1106-5-ND	3.51	2.97	2.57	2.30	M80-8630642
	8	12.1	952-1107-5-ND	3.46	2.93	2.53	2.27	M80-8630842
	10	14.1	952-1108-5-ND	3.64	3.08	2.66	2.38	M80-8631042
	12	16.1	952-1109-5-ND	4.13	3.50	3.03	2.71	M80-8631242
	14	18.1	952-1110-5-ND	4.29	3.63	3.14	2.81	M80-8631442
	16	20.1	952-1111-5-ND	4.47	3.79	3.27	2.93	M80-8631642
	18	22.1	952-1112-5-ND	4.68	3.96	3.42	3.06	M80-8631842
	20	24.1	952-1113-5-ND	4.87	4.12	3.56	3.19	M80-8632042
	26	30.1	952-1114-5-ND	5.43	4.60	3.98	3.56	M80-8632642
	34	38.1	952-1115-5-ND	6.21	5.26	4.55	4.07	M80-8633442
Dual Row, Right Angle, PCB, without Latch								
4	4	7.55	952-1116-5-ND	2.76	2.34	2.02	1.81	M80-8410442
	6	9.55	952-1117-5-ND	3.04	2.58	2.23	1.99	M80-8410642
	8	11.55	952-1118-5-ND	3.33	2.82	2.44	2.18	M80-8410842
	10	13.55	952-1119-5-ND	3.59	3.04	2.63	2.35	M80-8411042
	12	15.55	952-1120-5-ND	3.85	3.26	2.82	2.52	M80-8411242
	14	17.55	952-1121-5-ND	4.13	3.50	3.03	2.71	M80-8411442
	16	19.55	952-1122-5-ND	4.77	4.04	3.49	3.12	M80-8411642
	18	21.55	952-1123-5-ND	5.04	4.27	3.69	3.30	M80-8411842
	20	23.55	952-1124-5-ND	5.33	4.51	3.90	3.49	M80-8412042
	26	29.55	952-1125-5-ND	6.16	5.22	4.51	4.03	M80-8412642
	34	37.55	952-1126-5-ND	6.42	5.86	5.03	4.47	M80-8413442
Dual Row, Right Angle, PCB, with Latch								
4	4	8.1	952-1127-5-ND	4.60	3.90	3.37	3.01	M80-8510442
	6	10.1	952-1128-5-ND	4.84	4.10	3.54	3.17	M80-8510642
	8	12.1	952-1129-5-ND	5.08	4.31	3.72	3.33	M80-8510842
	10	14.1	952-1130-5-ND	5.30	4.49	3.88	3.47	M80-8511042
	12	16.1	952-1131-5-ND	5.54	4.69	4.05	3.63	M80-8511242
	14	18.1	952-1132-5-ND	5.80	4.91	4.24	3.80	M80-8511442
	16	20.1	952-1133-5-ND	6.34	5.37	4.64	4.15	M80-8511642
	18	22.1	952-1134-5-ND	5.83	5.32	4.56	4.06	M80-8511842
	20	24.1	952-1135-5-ND	6.05	5.53	4.74	4.21	M80-8512042
	26	30.1	952-1136-5-ND	6.69	6.12	5.24	4.66	M80-8512642
	34	38.1	952-1137-5-ND	7.54	6.89	5.91	5.25	M80-8513442
Dual Row, Right Angle, PCB, with Friction Latch								
4	4	8.1	952-1138-5-ND	4.60	3.90	3.37	3.01	M80-8390442
	6	10.1	952-1139-5-ND	4.84	4.10	3.54	3.17	M80-8390642
	8	12.1	952-1140-5-ND	5.08	4.31	3.72	3.33	M80-8390842
	10	14.1	952-1141-5-ND	5.30	4.49	3.88	3.47	M80-8391042
	12	16.1	952-1142-5-ND	5.54	4.69	4.05	3.63	M80-8391242
	14	18.1	952-1143-5-ND	5.80	4.91	4.24	3.80	M80-8391442
	16	20.1	952-1144-5-ND	6.34	5.37	4.64	4.15	M80-8391642
	18	22.1	952-1145-5-ND	5.82	5.32	4.56	4.05	M80-8391842
	20	24.1	952-1146-5-ND	6.05	5.53	4.74	4.21	M80-8392042
	26	30.1	952-1147-5-ND	6.69	6.12	5.24	4.66	M80-8392642
	34	38.1	952-1148-5-ND	7.54	6.89	5.91	5.25	M80-8393442
Dual Row, Vertical, SMT, with Friction Latch								
5	4	8.1	952-1171-5-ND	3.61	3.06	2.65	2.37	M80-8270442
	6	10.1	952-1172-5-ND	3.82	3.24	2.80	2.50	M80-8270642
	8	12.1	952-1173-5-ND	4.06	3.44	2.97	2.66	M80-8270842
	10	14.1	952-1174-5-ND	4.26	3.61	3.12	2.79	M80-8271042
	12	16.1	952-1175-5-ND	4.50	3.81	3.29	2.95	M80-8271242
	14	18.1	952-1176-5-ND	4.71	3.99	3.44	3.08	M80-8271442
	16	20.1	952-1177-5-ND	5.25	4.45	3.84	3.44	M80-8271642
	18	22.1	952-1178-5-ND	5.49	4.65	4.01	3.59	M80-8271842
	20	24.1	952-1179-5-ND	5.72	4.84	4.18	3.74	M80-8272042
	26	30.1	952-1180-5-ND	6.40	5.42	4.68	4.19	M80-8272642
	34	38.1	952-1181-5-ND	6.44	5.88	5.04	4.48	M80-8273442
Dual Row, Vertical, SMT, with Latch								
5	4	8.1	952-1160-5-ND	3.61	3.06	2.65	2.37	M80-8280442
	6	10.1	952-1161-5-ND	3.82	3.24	2.80	2.50	M80-8280642
	8	12.1	952-1162-5-ND	4.06	3.44	2.97	2.66	M80-8280842
	10	14.1	952-1163-5-ND	4.26	3.61	3.12	2.79	M80-8281042
	12	16.1	952-1164-5-ND	4.50	3.81	3.29	2.95	M80-8281242
	14	18.1	952-1165-5-ND	4.71	3.99	3.44	3.08	M80-8281442
	16	20.1	952-1166-5-ND	5.25	4.45	3.84	3.44	M80-8281642
	18	22.1	952-1167-5-ND	5.49	4.65	4.01	3.59	M80-8281842
	20	24.1	952-1168-5-ND	5.72	4.84	4.18	3.74	M80-8282042
	26	30.1	952-1169-5-ND	6.40	5.42	4.68	4.19	M80-8282642
	34	38.1	952-1170-5-ND	6.44	5.88	5.04	4.48	M80-8283442
Dual Row, Vertical, SMT, without Latch								
5	4	7.55	952-1149-5-ND	3.09	2.62	2.27	2.03	M80-8260442
	6	9.55	952-1150-5-ND	3.28	2.78	2.40	2.15	M80-8260642
	8	11.55	952-1151-5-ND	3.48	2.95	2.55	2.28	M80-8260842
	10	13.55	952-1152-5-ND	3.67	3.11	2.68	2.40	M80-8261042
	12	15.55	952-1153-5-ND	3.85	3.26	2.82	2.52	M80-8261242
	14	17.55	952-1154-5-ND	4.06	3.44	2.97	2.66	M80-8261442
	16	19.55	952-1155-5-ND	4.50	3.81	3.29	2.95	M80-8261642
	18	21.55	952-1156-5-ND	4.71	3.99	3.44	3.08	M80-8261842
	20	23.55	952-1157-5-ND	4.91	4.16	3.60	3.22	M80-8262042
	26	29.55	952-1158-5-ND	5.49	4.65	4.01	3.59	M80-8262642
	34	37.55	952-1159-5-ND	6.27	5.31	4.58	4.10	M80-8263442
Female Receptacles — Crimp Sockets Included								
Single Row, Small Bore (24-28AWG)								
9	2	7.15	952-1182-ND	1.57	1.30	1.08	.98	M80-8980205
	3	9.15	952-1183-ND	2.29	1.90	1.58	1.43	M80-8980305
	4	11.15	952-1184-ND	2.78	2.31	1.92	1.73	M80-8980405
	5	13.15	952-1185-ND	3.09	2.62	2.27	2.03	M80-8980505
	6	15.15	952-1186-ND	3.64	3.08	2.66	2.38	M80-8980605
	7	17.15	952-1187-ND	4.00	3.39	2.93	2.62	M80-8980705
	17	37.15	952-1188-ND	7.02	6.50	5.83	5.45	M80-8981705
Single Row, Large Bore (22AWG)								
9	2	7.15	952-1189-ND	1.57	1.30	1.08	.98	M80-8990205
	3	9.15	952-1190-ND	2.29	1.90	1.58	1.43	M80-8990305
	4	11.15	952-1191-ND	2.78	2.31	1.92	1.73	M80-8990405
	5	13.15	952-1192-ND	3.09	2.62	2.27	2.03	M80-8990505
	6	15.15	952-1193-ND	3.64	3.08	2.66	2.38	M80-8990605
	7	17.15	952-1194-ND	4.00	3.39	2.93	2.62	M80-8990705
	17	37.15	952-1195-ND	7.02	6.50	5.83	5.45	M80-8991705
Dual Row, Small Bore (24-28AWG)								
6	4	7.15	952-1196-ND	2.78	2.31	1.92	1.73	M80-8880405
	6	9.15	952-1197-ND	3.64	3.08	2.66	2.38	M80-8880605
	8	11.15	952-1198-ND	4.63	3.92	3.39	3.03	M80-8880805
	10	13.15	952-1199-ND	5.59	4.73	4.09	3.66	M80-8881005
	12	15.15	952-1200-ND	5.91	5.40	4.63	4.12	M80-8881205
	14	17.15	952-1201-ND	6.62	6.05	5.19	4.61	M80-8881405
	16	19.15	952-1202-ND	7.59	6.93	5.94	5.28	M80-8881605
	18	21.15	952-1203-ND	7.38	6.83	6.13	5.72	M80-8881805
	20	23.15	952-1204-ND	8.00	7.40	6.64	6.20	M80-8882005
	26	29.15	952-1205-ND	8.74	8.23	7.46	7.20	M80-8882605
	34	37.15	952-1206-ND	11.25	10.60	9.60	9.27	M80-8883405

(Continued)

NEW! HARWiN Datamate 2mm Connectors

Datamate L-Tek *(Cont.)*

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Harwin Part No.
Dual Row, Large Bore (22AWG)								
6	4	7.15	952-1207-ND	2.78	2.31	1.92	1.73	M80-8890405
	6	9.15	952-1208-ND	3.64	3.08	2.66	2.38	M80-8890605
	8	11.15	952-1209-ND	4.63	3.92	3.39	3.03	M80-8890805
	10	13.15	952-1210-ND	5.59	4.73	4.09	3.66	M80-8891005
	12	15.15	952-1211-ND	5.91	5.40	4.63	4.12	M80-8891205
	14	17.15	952-1212-ND	6.62	6.05	5.19	4.61	M80-8891405
	16	19.15	952-1213-ND	7.59	6.93	5.94	5.28	M80-8891605
	18	21.15	952-1214-ND	7.38	6.83	6.13	5.72	M80-8891805
	20	23.15	952-1215-ND	8.00	7.40	6.64	6.20	M80-8892005
	26	29.15	952-1216-ND	8.74	8.23	7.46	7.20	M80-8892605
	34	37.15	952-1217-ND	11.25	10.60	9.60	9.27	M80-8893405
Female Headers								
Single Row, Vertical, PCB, without Latch								
7	2	7.15	952-1220-5-ND	1.97	1.64	1.36	1.23	M80-8970205
	3	9.15	952-1221-5-ND	2.84	2.36	1.96	1.77	M80-8970305
	4	11.15	952-1222-5-ND	2.91	2.47	2.13	1.91	M80-8970405
	5	13.15	952-1223-5-ND	3.61	3.06	2.65	2.37	M80-8970505
	6	15.15	952-1224-5-ND	4.24	3.59	3.10	2.78	M80-8970605
	7	17.15	952-1225-5-ND	4.71	3.99	3.44	3.08	M80-8970705
	17	37.15	952-1226-5-ND	8.14	7.53	6.76	6.31	M80-8971705

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Harwin Part No.
Dual Row, Vertical, PCB, without Latch								
8	4	7.15	952-1227-5-ND	2.67	2.21	1.84	1.66	M80-8870405
	6	9.15	952-1228-5-ND	3.48	2.95	2.55	2.28	M80-8870605
	8	11.15	952-1229-5-ND	4.37	3.70	3.20	2.86	M80-8870805
	10	13.15	952-1230-5-ND	5.36	4.54	3.92	3.51	M80-8871005
	12	15.15	952-1231-5-ND	6.37	5.39	4.66	4.17	M80-8871205
	14	17.15	952-1232-5-ND	6.33	5.78	4.95	4.40	M80-8871405
	16	19.15	952-1233-5-ND	7.25	6.62	5.67	5.04	M80-8871605
	18	21.15	952-1234-5-ND	7.04	6.52	5.85	5.46	M80-8871805
	20	23.15	952-1235-5-ND	7.64	7.07	6.35	5.93	M80-8872005
	26	29.15	952-1236-5-ND	9.82	9.09	8.16	7.62	M80-8872605
	34	37.15	952-1237-5-ND	10.74	10.12	9.17	8.85	M80-8873405

Description	Digi-Key Part No.	Price Each 1	10	50	Harwin Part No.
Spare Crimp Sockets					
Small Bore, 24-28AWG, Gold	952-1048-ND	.76	.59	.50	M80-0130005
Large Bore, 22AWG, Gold	952-1049-ND	.76	.59	.50	M80-0110005
Crimp Tools					
Hand Tool for Datamate J-Tek/L-Tek	952-1238-ND	447.60	430.38	—	M22520/2-01
Positioner for M22520/2-01	952-1239-ND	87.78	84.15	80.85	T5747
Separator for L-Tek Datamate	952-1240-ND	50.79	48.70	46.79	T5746
Tool Insert/Removal for Datamate	952-1241-ND	121.03	116.03	111.48	Z80-280

Datamate J-Tek   Datamate Trio-Tek

Features: • High Reliability • Suited for use in environments where high vibration, shock and extreme temperatures are a consideration • Ideal for COTS applications • 3 amp four finger beryllium copper contact, screw machined shell • Slotted Jackscrew Hardware for added security

Specifications: Materials: • Mouldings: Glass-filled thermoplastic UL94V-0 • Female Contacts: Brass shell, with beryllium copper inner contact • Male Contacts: Phosphor bronze

Electrical: • Current (all contacts simultaneously): 3.0A maximum @ 25°C, 2.2A maximum @ 85°C • Working Voltage: 240Vdc or AC RMS • Contact resistance: 25mΩ maximum • Insulation resistance: 100MΩ @ 500VDC

Mechanical: • Durability: 500 operations

Environmental: • Operational temperature: -55°C ~ 125°C/56 days at 95% RH

Datamate Trio-Tek mates with Male J-Tek Datamate connectors Contacts available both loose and on reels

Fig. 1

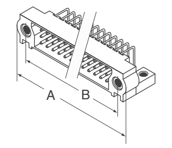

Fig. 2

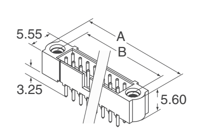

Shown without Board Mount

Fig. 3

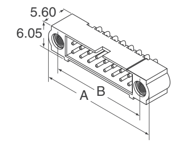

Shown without Board Mount

Fig. 4

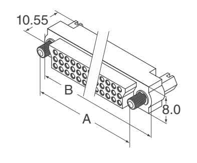

Fig. 5

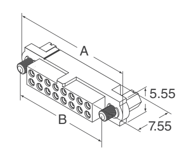

Fig. 6

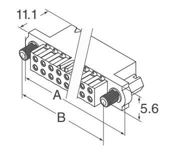

Fig.	No. of Pos.	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	50	Harwin Part No.
J-Tek Male Headers								
3 Row, Right Angle, PCB with Jackscrew								
1	60	53	47	952-1051-ND	17.88	17.24	16.29	M83-LML3M1N60-0000-000
	96	77	71	952-1053-ND	28.60	27.59	26.05	M83-LML3M1N96-0000-000
Dual Row, Vertical, PCB, with Jackscrew								
2	6	16	11	952-1000-5-ND	4.42	3.74	3.23	M80-5000642
	10	20	15	952-1001-5-ND	4.78	4.05	3.50	M80-5001042
	14	24	19	952-1002-5-ND	5.23	4.43	3.82	M80-5001442
	20	30	25	952-1003-5-ND	5.69	4.82	4.17	M80-5002042
	26	36	31	952-1004-5-ND	5.82	4.93	4.26	M80-5002642
	34	44	39	952-1005-5-ND	6.32	5.35	4.62	M80-5003442
	42	52	47	952-1006-5-ND	6.10	5.57	4.77	M80-5004242
	50	60	55	952-1007-5-ND	6.67	6.09	5.22	M80-5005042
Dual Row, Vertical, PCB, with Board Mount								
2	6	16	11	952-1008-5-ND	6.33	5.78	4.95	M80-5100642
	10	20	15	952-1009-5-ND	6.65	6.07	5.21	M80-5101042
	14	24	19	952-1010-5-ND	7.04	6.43	5.51	M80-5101442
	20	30	25	952-1011-5-ND	7.45	6.81	5.84	M80-5102042
	26	36	31	952-1012-5-ND	7.57	6.91	5.93	M80-5102642
	34	44	39	952-1013-5-ND	8.00	7.31	6.27	M80-5103442
	42	52	47	952-1014-5-ND	7.40	6.85	6.15	M80-5104242
	50	60	55	952-1015-5-ND	7.90	7.31	6.56	M80-5105042
Dual Row, Right Angle, PCB, with Jackscrew								
3	6	16	11	952-1016-5-ND	4.58	3.88	3.35	M80-5300642
	10	20	15	952-1017-5-ND	4.91	4.16	3.60	M80-5301042
	14	24	19	952-1018-5-ND	5.38	4.56	3.94	M80-5301442
	20	30	25	952-1019-5-ND	5.85	4.95	4.28	M80-5302042
	26	36	31	952-1020-5-ND	6.01	5.09	4.39	M80-5302642
	34	44	39	952-1021-5-ND	5.75	5.25	4.50	M80-5303442
	42	52	47	952-1022-5-ND	6.28	5.74	4.92	M80-5304242
	50	60	55	952-1023-5-ND	6.85	6.26	5.37	M80-5305042
Dual Row, Right Angle, PCB, with Board Mount								
3	6	16	11	952-1024-5-ND	11.27	10.89	10.14	M80-5400642
	10	20	15	952-1025-5-ND	11.46	11.08	10.32	M80-5401042
	14	24	19	952-1026-5-ND	11.73	11.34	10.56	M80-5401442
	20	30	25	952-1027-5-ND	12.00	11.60	10.80	M80-5402042
	26	36	31	952-1028-5-ND	12.09	11.69	10.89	M80-5402642
	34	44	39	952-1029-5-ND	12.38	11.97	11.14	M80-5403442
	42	52	47	952-1030-5-ND	12.72	12.30	11.45	M80-5404242
	50	60	55	952-1031-5-ND	13.10	12.66	11.79	M80-5405042
J-Tek Female Receptacles — Crimp Sockets Included								
3 Row, Small Bore (24-28AWG)								
4	60	53	47	952-1050-ND	22.58	21.78	20.57	M83-LFC1F1N60-0000-000
	96	77	71	952-1052-ND	34.31	32.90	31.61	M83-LFC1F1N96-0000-000

Fig.	No. of Pos.	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	50	Harwin Part No.
Dual Row, Small Bore (24-28AWG) with Jackscrew								
5	6	16	11	952-1032-ND	9.67	9.11	8.26	M80-4610605
	10	20	15	952-1033-ND	11.53	10.85	9.84	M80-4611005
	14	24	19	952-1034-ND	11.81	11.42	10.63	M80-4611405
	20	30	25	952-1035-ND	14.25	13.78	12.83	M80-4612005
	26	36	31	952-1036-ND	15.58	15.03	14.20	M80-4612605
	34	44	39	952-1037-ND	18.63	17.97	16.98	M80-4613405
	42	52	47	952-1038-ND	21.67	20.90	19.74	M80-4614205
	50	60	55	952-1039-ND	24.72	23.85	22.52	M80-4615005
Dual Row, Large Bore (22AWG) with Jackscrew								
5	6	16	11	952-1040-ND	9.67	9.11	8.26	M80-4600605
	10	20	15	952-1041-ND	11.53	10.85	9.84	M80-4601005
	14	24	19	952-1042-ND	11.81	11.42	10.63	M80-4601405
	20	30	25	952-1043-ND	14.25	13.78	12.83	M80-4602005
	26	36	31	952-1044-ND	15.58	15.03	14.20	M80-4602605
	34	44	39	952-1045-ND	18.63	17.97	16.98	M80-4603405
	42	52	47	952-1046-ND	21.67	20.90	19.74	M80-4604205
	50	60	55	952-1047-ND	24.72	23.85	22.52	M80-4605005
Trio-Tek Female Receptacles — Contacts not included								
Dual Row, with Jackscrew								
6	6	16	11	952-1054-ND	4.78	4.05	3.50	M80-4550698
	8	18	13	952-1055-ND	4.78	4.05	3.50	M80-4550898
	10	20	15	952-1056-ND	4.81	4.07	3.52	M80-4551098
	12	24	17	952-1057-ND	4.84	4.10	3.54	M80-4551298
	14	34	19	952-1058-ND	4.84	4.10	3.54	M80-4551498
	20	30	25	952-1059-ND	4.89	4.14	3.58	M80-4552098
	26	36	31	952-1060-ND	4.92	4.17	3.60	M80-4552698
	34	44	39	952-1061-ND	4.98	4.22	3.65	M80-4553498

Description	Digi-Key Part No.	Price Each 1	10	50	Harwin Part No.
J-Tek Spare Crimp Sockets					
Small Bore, 24-28AWG, Gold	952-1048-ND	.76	.59	.50	M80-0130005
Large Bore, 22AWG, Gold	952-1049-ND	.76	.59	.50	M80-0110005
Trio-Tek Crimp Sockets					
22-24AWG, Gold	952-1062-1-ND†	.32	.27	.23	M80-2530045
22-24AWG, Gold	952-1062-2-ND‡	1725.00/15,000			M80-2530045
26-28AWG, Gold	952-1063-1-ND†	.32	.27	.23	M80-2540045
26-28AWG, Gold	952-1063-2-ND‡	1725.00/15,000			M80-2540045
22-24AWG, Gold	952-1064-ND	.44	.34	.29	M80-2830045
26-28AWG, Gold	952-1065-ND	.44	.34	.29	M80-2840045
Crimp Tools					
Tool and Locator for Trio-Tek	952-1066-ND	354.25	340.63	—	Z80-255
Spare Locator for Z80-255 22-28AWG	952-1067-ND	131.14	125.72	120.79	Z80-259
Contact Removal Tool for Trio-Tek	952-1068-ND	10.40	9.80	8.88	Z80-258
Hand Tool for Datamate J-Tek/L-Tek	952-1238-ND	447.60	430.38	—	M22520/2-01
Positioner for M22520/2-01	952-1239-ND	87.78	84.15	80.85	T5747

† Cut Tape ‡ Tape and Reel

(Continued)

NEW! HARWiN Datamate 2mm Connectors *(Cont.)*

Datamate 101 Lok Datamate Trio-Tek

Features: • Fast mating quarter turn hardware with spring tension for secure mating in rugged environment

Fig. 1

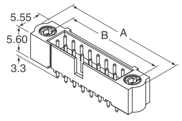

Fig. 2

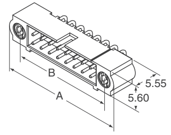

Fig. 3

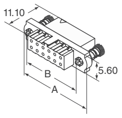

Fig.	No. of Pos.	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
Male Headers								
Dual Row, Vertical, PCB								
1	6	16	11	952-1277-5-ND	4.34	3.68	3.18	M80-5T10642MC
	8	18	13	952-1278-5-ND	4.45	3.77	3.25	M80-5T10842MC
	10	20	15	952-1279-5-ND	4.55	3.85	3.33	M80-5T11042MC
	12	22	17	952-1280-5-ND	4.68	3.96	3.42	M80-5T11242MC
	14	24	19	952-1281-5-ND	4.78	4.05	3.50	M80-5T11442MC
	20	30	25	952-1282-5-ND	5.25	4.45	3.84	M80-5T12042MC
	26	36	31	952-1283-5-ND	5.41	4.58	3.96	M80-5T12642MC
	34	44	39	952-1284-5-ND	5.82	4.93	4.26	M80-5T13442MC
Dual Row, Right Angle, PCB								
2	6	16	11	952-1285-5-ND	4.39	3.72	3.22	M80-5L10642MC
	8	18	13	952-1286-5-ND	4.42	3.74	3.23	M80-5L10842MC
	10	20	15	952-1287-5-ND	4.58	3.88	3.35	M80-5L11042MC
	12	22	17	952-1288-5-ND	4.65	3.94	3.41	M80-5L11242MC
	14	26	19	952-1289-5-ND	4.76	4.03	3.48	M80-5L11442MC
	20	30	25	952-1290-5-ND	5.21	4.41	3.81	M80-5L12042MC
	26	36	31	952-1291-5-ND	5.23	4.43	3.82	M80-5L12642MC
	34	44	39	952-1292-5-ND	5.72	4.84	4.18	M80-5L13442MC

Fig.	No. of Pos.	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
Female Receptacles								
Dual Row								
3	6	16	11	952-1293-ND	7.60	7.03	6.31	M80-4590698
	8	18	13	952-1294-ND	7.68	7.11	6.38	M80-4590898
	10	20	15	952-1295-ND	7.74	7.16	6.43	M80-4591098
	12	22	17	952-1296-ND	7.84	7.26	6.51	M80-4591298
	14	24	19	952-1297-ND	7.92	7.33	6.58	M80-4591498
	20	30	25	952-1298-ND	8.15	7.55	6.77	M80-4592098
	26	36	31	952-1299-ND	8.40	7.77	6.98	M80-4592698
	34	44	39	952-1300-ND	8.74	8.09	7.26	M80-4593498

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
Crimp Sockets					
22-24AWG, Gold	952-1062-1-ND†	.32	.27	.23	M80-2530045
22-24AWG, Gold	952-1062-2-ND‡	1725.00/15,000			M80-2530045
26-28AWG, Gold	952-1063-1-ND†	.32	.27	.23	M80-2540045
26-28AWG, Gold	952-1063-2-ND‡	1725.00/15,000			M80-2540045
Crimp Tools					
Tool and Locator for Trio-Tek	952-1066-ND	354.25	340.63	—	Z80-255
Spare Locator for Z80-255 22-28AWG	952-1067-ND	131.14	125.72	120.79	Z80-259
Contact Removal Tool for Trio-Tek	952-1068-ND	10.40	9.80	8.88	Z80-258

† Cut Tape ‡ Tape and Reel

Datamate Mix-Tek

Features: • High Reliability • Suited for use in environments where high vibration, shock and extreme temperatures are a consideration • Ideal for COTS applications • Connector body with signal contacts and interchangeable power and coax contacts **Specifications: Materials:** • Mouldings: Glass-filled thermoplastic UL94V-0 • Female Contacts: Brass shell, with beryllium copper inner contact • Male Contacts: Phosphor bronze **Electrical:** • Current (all contacts simultaneously): 3.0A maximum @ 25°C, 2.2A maximum @ 85°C • Working Voltage: 240Vdc or AC RMS • Contact resistance: 25mΩ maximum • Insulation resistance: 100MΩ @ 500VDC • Power - 20 Amps - Female Solder (12 AWG) Male PC Tail (3.5mm) • Signal - 3 Amps - Female Crimp (24-28 AWG) Male PC Tail (3.0mm) **Mechanical:** • Durability: 500 operations **Environmental:** • Operational temperature: -55°C ~ 125°C/56 days at 95% RH

Fig. 1

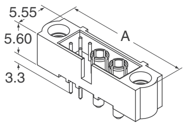

Fig. 2

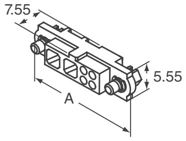

Contact Arrangement

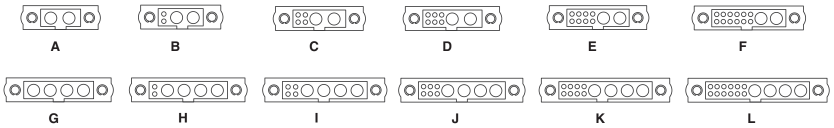

Fig.	Contact Arrangement	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
Male Headers								
1	A	2	18	952-1243-ND	12.38	11.97	11.14	M80-5000000M1-02-331-00-000
	B	4	20	952-1245-ND	12.93	12.50	11.64	M80-5T10205M1-02-331-00-000
	C	6	22	952-1247-ND	13.49	13.04	12.14	M80-5T10405M1-02-331-00-000
	D	8	24	952-1249-ND	14.07	13.61	12.67	M80-5T10605M1-02-331-00-000
	E	10	26	952-1251-ND	14.64	14.16	13.18	M80-5T10805M1-02-331-00-000
	F	14	30	952-1253-ND	14.83	14.30	13.51	M80-5T11205M1-02-331-00-000
	G	4	26	952-1255-ND	19.52	18.82	17.78	M80-5000000M1-04-331-00-000
	H	6	28	952-1257-ND	20.40	19.67	18.58	M80-5T10205M1-04-331-00-000
	I	8	30	952-1259-ND	21.27	20.51	19.37	M80-5T10405M1-04-331-00-000
	J	10	32	952-1261-ND	22.19	21.40	20.21	M80-5T10605M1-04-331-00-000
	K	12	34	952-1263-ND	23.09	22.27	21.03	M80-5T10805M1-04-331-00-000
	L	16	38	952-1265-ND	25.06	24.17	22.83	M80-5T11205M1-04-331-00-000
Female Receptacles								
2	A	2	18	952-1242-ND	14.76	14.27	13.29	M80-4000000F1-02-325-00-000
	B	4	20	952-1244-ND	14.69	14.17	13.38	M80-4C10205F1-02-325-00-000
	C	6	22	952-1246-ND	15.44	14.90	14.07	M80-4C10405F1-02-325-00-000
	D	8	24	952-1248-ND	16.34	15.76	14.88	M80-4C10605F1-02-325-00-000
	E	10	26	952-1250-ND	17.15	16.54	15.62	M80-4C10805F1-02-325-00-000
	F	14	30	952-1252-ND	18.82	18.15	17.14	M80-4C11205F1-02-325-00-000
	G	4	26	952-1254-ND	20.73	20.00	18.89	M80-4000000F1-04-325-00-000

Fig.	Contact Arrangement	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
2	H	6	28	952-1256-ND	21.60	20.84	19.68	M80-4C10205F1-04-325-00-000
	I	8	30	952-1258-ND	22.50	21.70	20.49	M80-4C10405F1-04-325-00-000
	J	10	32	952-1260-ND	23.28	22.46	21.21	M80-4C10605F1-04-325-00-000
	K	12	34	952-1262-ND	24.11	23.25	21.96	M80-4C10805F1-04-325-00-000
	L	16	38	952-1264-ND	25.77	24.86	23.48	M80-4C11205F1-04-325-00-000

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Harwin Part No.
Spare Crimp Sockets					
Female power contact, solder, 12AWG	952-1268-ND	7.94	7.25	6.21	M80-325
Female power contact, solder, 14AWG	952-1269-ND	7.92	7.24	6.21	M80-326
Female power contact, solder, 16AWG	952-1270-ND	7.92	7.24	6.21	M80-327
Male power contact, solder, 12AWG	952-1271-ND	7.59	6.93	5.94	M80-335
Male power contact, solder, 14AWG	952-1272-ND	7.59	6.93	5.94	M80-336
Male power contact, solder, 16AWG	952-1273-ND	7.59	6.93	5.94	M80-337
Female power contact, PCB	952-1274-ND	2.81	2.38	2.06	M80-321
Female coax contact, PCB	952-1275-ND	9.08	8.40	7.54	M80-301
Male coax contact, crimp	952-1276-ND	9.20	8.66	7.85	M80-315
Small Bore, 24-28AWG, Gold	952-1048-ND	.76	.59	.50	M80-0130005
Large Bore, 22AWG, Gold	952-1049-ND	.76	.59	.50	M80-0110005
Crimp Tools					
Hand Tool for Datamate	952-1238-ND	447.60	430.38	—	M22520/2-01
Tool Insert/Removal for Datamate	952-1241-ND	121.03	116.03	111.48	Z80-280

PC/104 Series — .1" (2.54mm) Receptacles

Materials: • Mouldings: Glass-Filled PBT or PPS (High Temperature) UL94V-0 • Contacts: Phosphor Bronze • Finish: Gold
Electrical: • Current Rating: Solder Tail: 3A maximum, Press-Fit Tail: 2A maximum • Voltage Rating: 12VDC • Voltage Proof: 1,000VAC • Contact Resistance: 30mΩ maximum • Insulation Resistance: 1,000MΩ minimum
Environmental: • Temperature Range: -55°C ~ 105°C
Mechanical: • Durability: Mating: 10 operations, Press-Fit: 3 operations

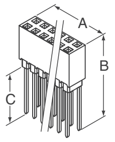

No. of Positions	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Price Each 100	Harwin Part No.
Stackable Solder Tail									
20	51.46	48.26	12.19	952-1419-5-ND	3.59	3.04	2.63	2.35	M20-6102005
32	81.94	78.74	12.19	952-1420-5-ND	5.51	4.67	4.03	3.61	M20-6103205
Non-Stackable Press-Fit Tail									
20	51.46	48.26	2.29	952-1421-5-ND	3.12	2.64	2.28	2.04	M20-6112005
32	81.94	78.74	2.29	952-1422-5-ND	4.58	3.88	3.35	3.00	M20-6113205
Stackable Press-Fit Tail									
20	51.82	48.26	12.10	952-1423-5-ND	9.15	8.61	7.81	7.54	M20-6152005
32	82.30	78.74	12.10	952-1424-5-ND	9.98	9.40	8.52	8.22	M20-6153205

NEW! HARWiN ARCHER 1.27mm Pitch Headers and Receptacles

Materials: • Mouldings: High temperature plastic UL94V-0 • Contacts: Copper Alloy • Finish: M50-3XX: Gold on contact area, Tin on tails, M50-4XX: Gold
Electrical: • Current rating: 1A per contact • Voltage rating: 150VAC • Voltage proof: 500VAC • Contact resistance: 40mΩ maximum • Insulation resistance: 1000MΩ minimum

Environmental: • Operating temperature: -40°C ~ 105°C
Mechanical: • Durability: M50-315: 600 operations, M50-300,311: 50 operations, M50-4XX: 300 operations, M50-3XX male: 600 operations

Fig. 1

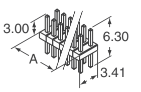

Fig. 2

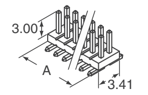

Fig. 3

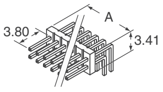

Fig. 4

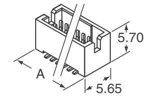

Fig. 5

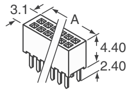

Fig. 6

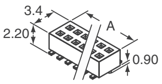

Fig. 7

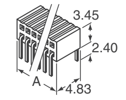

Fig. 8

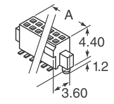

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
				1	10	50	100	
Headers								
Dual, Vertical, PCB								
1	10	6.35	952-1383-ND	1.24	1.03	.86	.76	M50-3500542
	12	7.62	952-1384-ND	1.37	1.14	.95	.84	M50-3500642
	16	10.16	952-1385-ND	1.45	1.20	1.00	.90	M50-3500842
	20	12.7	952-1386-ND	1.71	1.42	1.18	1.07	M50-3501042
	40	25.4	952-1387-ND	2.65	2.25	1.94	1.74	M50-3502042
	50	31.75	952-1388-ND	3.20	2.71	2.34	2.10	M50-3502542
Dual, Vertical, SMT								
2	10	6.35	952-1389-ND	1.27	1.06	.88	.78	M50-3600542
	12	7.62	952-1390-ND	1.43	1.19	.99	.88	M50-3600642
	16	10.16	952-1391-ND	1.60	1.32	1.10	.99	M50-3600842
	20	12.7	952-1392-ND	1.89	1.56	1.30	1.17	M50-3601042
	40	25.4	952-1393-ND	3.09	2.62	2.27	2.03	M50-3602042
	50	31.75	952-1394-ND	3.15	2.67	2.30	2.06	M50-3602542
Dual, Right Angle, PCB								
3	10	6.35	952-1395-ND	1.50	1.25	1.04	.92	M50-3900542
	12	7.62	952-1396-ND	1.54	1.28	1.06	.96	M50-3900642
	16	10.16	952-1397-ND	1.91	1.59	1.32	1.19	M50-3900842
	20	12.7	952-1398-ND	2.29	1.90	1.58	1.43	M50-3901042
	40	25.4	952-1399-ND	3.74	3.17	2.74	2.45	M50-3902042
	50	31.75	952-1400-ND	4.26	3.61	3.12	2.79	M50-3902542
Dual, Vertical, SMT Polarized								
4	10	9.55	952-1407-5-ND	2.20	1.83	1.52	1.37	M50-4900545
	12	10.82	952-1408-5-ND	2.55	2.12	1.76	1.59	M50-4900645
	16	13.36	952-1409-5-ND	2.76	2.34	2.02	1.81	M50-4900845
	20	15.9	952-1410-5-ND	3.46	2.93	2.53	2.27	M50-4901045
	40	28.6	952-1411-5-ND	6.27	5.31	4.58	4.10	M50-4902045
	50	34.95	952-1412-5-ND	7.02	6.41	5.49	4.88	M50-4902545

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
				1	10	50	100	
Receptacles								
Dual, Vertical, PCB								
5	10	6.85	952-1365-5-ND	1.57	1.30	1.08	.98	M50-3000545
	12	8.12	952-1366-5-ND	1.68	1.40	1.16	1.05	M50-3000645
	16	10.66	952-1367-5-ND	2.00	1.66	1.38	1.25	M50-3000845
	20	13.2	952-1368-5-ND	2.35	1.95	1.62	1.46	M50-3001045
	40	25.9	952-1369-5-ND	3.61	3.06	2.65	2.37	M50-3002045
	50	32.25	952-1370-5-ND	4.00	3.39	2.93	2.62	M50-3002545
Dual, Vertical, SMT, with Post								
6	10	6.75	952-1371-5-ND	2.94	2.49	2.15	1.93	M50-3150542
	12	8.02	952-1372-5-ND	3.04	2.58	2.23	1.99	M50-3150642
	16	10.56	952-1373-5-ND	4.08	3.46	2.99	2.67	M50-3150842
	20	13.1	952-1374-5-ND	5.10	4.32	3.73	3.34	M50-3151042
	40	25.8	952-1375-5-ND	7.22	6.60	5.66	5.03	M50-3152042
	50	32.15	952-1376-5-ND	7.86	7.28	6.53	6.10	M50-3152542
Dual, Right Angle, PCB								
7	10	6.85	952-1377-5-ND	2.00	1.66	1.38	1.25	M50-3200545
	12	8.12	952-1378-5-ND	2.18	1.80	1.50	1.35	M50-3200645
	16	10.66	952-1379-5-ND	2.84	2.36	1.96	1.77	M50-3200845
	20	13.2	952-1380-5-ND	3.20	2.71	2.34	2.10	M50-3201045
	40	25.9	952-1381-5-ND	5.23	4.43	3.82	3.42	M50-3202045
	50	32.25	952-1382-5-ND	5.80	5.30	4.54	4.04	M50-3202545
Dual, Vertical, SMT Polarized								
8	10	10.1	952-1401-5-ND	2.00	1.66	1.38	1.25	M50-4300545
	12	11.37	952-1402-5-ND	2.18	1.80	1.50	1.35	M50-4300645
	16	13.91	952-1403-5-ND	2.84	2.36	1.96	1.77	M50-4300845
	20	16.45	952-1404-5-ND	3.20	2.71	2.34	2.10	M50-4301045
	40	29.15	952-1405-5-ND	5.23	4.43	3.82	3.42	M50-4302045
	50	35.5	952-1406-5-ND	5.77	5.28	4.52	4.02	M50-4302545

M22 Series — 2mm Headers and Receptacles

Materials: • Mouldings: Standard or high temperature plastic, UL94V-0 • Contacts: Male: Copper Alloy, Female: Phosphor Bronze, Jumper Sockets: Beryllium Copper
Electrical: • Current Rating: 1A all contacts • Voltage Rating: 250VAC/VDC • Voltage Proof: 650VAC • Contact Resistance: 30mΩ maximum • Insulation Resistance: 100MΩ minimum
Environmental: • Operating Temperature: -40°C ~ 105°C
Mechanical: • Durability: Gold Finish: 300 operations, Tin Finish: 50 operations

Fig. 1

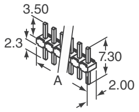

Fig. 2

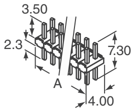

Fig. 3

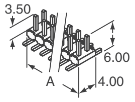

Fig. 4

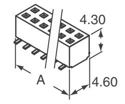

Fig. 5

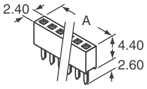

Fig. 6

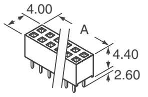

Fig. 7

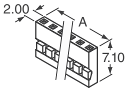

Fig. 8

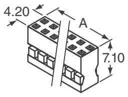

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
				1	10	50	100	
Headers								
Single, Vertical, PCB								
1	4	8	952-1311-ND	.33	.21	.12	.11	M22-2510205
	6	12	952-1312-ND	.38	.24	.16	.14	M22-2510305
	8	16	952-1313-ND	.37	.26	.20	.18	M22-2510405
	10	20	952-1314-ND	.46	.32	.25	.22	M22-2510505
	12	24	952-1315-ND	.55	.39	.30	.26	M22-2510605
	20	40	952-1316-ND	.68	.54	.45	.41	M22-2511005
Dual, Vertical, PCB								
2	4	4	952-1317-ND	.37	.26	.20	.18	M22-2520205
	6	6	952-1318-ND	.55	.39	.30	.26	M22-2520305
	8	8	952-1319-ND	.57	.45	.38	.34	M22-2520405
	10	10	952-1320-ND	.68	.54	.45	.41	M22-2520505
	12	12	952-1321-ND	.84	.65	.55	.50	M22-2520605
	20	20	952-1322-ND	1.20	1.00	.84	.74	M22-2521005
Dual, Vertical, SMT								
3	4	4	952-1339-ND	.68	.54	.45	.41	M22-5320205
	6	6	952-1340-ND	.80	.62	.53	.48	M22-5320305
	8	8	952-1341-ND	.88	.73	.61	.54	M22-5320405
	10	10	952-1342-ND	1.07	.90	.75	.66	M22-5320505
	12	12	952-1343-ND	1.27	1.06	.88	.78	M22-5320605
	20	20	952-1344-ND	1.83	1.52	1.26	1.14	M22-5321005
Receptacles								
Dual, Vertical, SMT								
4	6	6.5	952-1345-5-ND	1.01	.84	.70	.62	M22-6340342
	8	8.5	952-1346-5-ND	1.33	1.11	.93	.82	M22-6340442
	10	10.5	952-1347-5-ND	1.50	1.25	1.04	.92	M22-6340542
	12	12.5	952-1348-5-ND	1.45	1.20	1.00	.90	M22-6340642
	20	20.5	952-1349-5-ND	2.32	1.92	1.60	1.44	M22-6341042
Single, Vertical, PCB								
5	6	12	952-1350-5-ND	1.14	.95	.79	.70	M22-7130342
	8	16	952-1351-5-ND	1.24	1.03	.86	.76	M22-7130442
	10	20	952-1352-5-ND	1.30	1.08	.90	.80	M22-7130542
	12	24	952-1353-5-ND	1.30	1.08	.90	.80	M22-7130642
	20	40	952-1354-5-ND	1.60	1.32	1.10	.99	M22-7131042
	28	56	952-1355-5-ND	2.23	1.85	1.54	1.39	M22-7131442
	40	80	952-1356-5-ND	2.86	2.42	2.09	1.87	M22-7132042

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
				1	10	50	100	
Dual, Vertical, PCB								
6	6	6	952-1357-5-ND	1.30	1.08	.90	.80	M22-7140342
	8	8	952-1358-5-ND	1.50	1.25	1.04	.92	M22-7140442
	10	10	952-1359-5-ND	1.45	1.20	1.00	.90	M22-7140542
	12	12	952-1360-5-ND	1.60	1.32	1.10	.99	M22-7140642
	20	20	952-1361-5-ND	2.64	2.19	1.82	1.64	M22-7141042
	28	28	952-1362-5-ND	2.86	2.42	2.09	1.87	M22-7141442
	40	40	952-1363-5-ND	3.87	3.28	2.84	2.54	M22-7142042
Crimp Housing								
Single Row								
7	4	8	952-1323-ND	.45	.32	.25	.21	M22-3010200
	6	12	952-1324-ND	.55	.39	.30	.26	M22-3010300
	8	16	952-1325-ND	.60	.42	.33	.29	M22-3010400
	10	20	952-1326-ND	.53	.42	.35	.32	M22-3010500
	12	24	952-1327-ND	.61	.48	.40	.36	M22-3010600
	20	40	952-1328-ND	.84	.65	.55	.50	M22-3011000
Dual Row								
8	4	4	952-1329-ND	.60	.42	.33	.29	M22-3020200
	6	6	952-1330-ND	.57	.45	.38	.34	M22-3020300
	8	8	952-1331-ND	.68	.54	.45	.41	M22-3020400
	10	10	952-1332-ND	.76	.59	.50	.45	M22-3020500
	12	12	952-1333-ND	.87	.68	.58	.52	M22-3020600
	20	20	952-1334-ND	1.14	.95	.79	.70	M22-3021000
Shorting Jumpers								
Black, Gold Plated			952-1305-ND	.44	.31	.24	.21	M22-1900005
Black, Tin Plated			952-1306-ND	.44	.31	.24	.21	M22-1900046
Blue, Gold Plated			952-1307-ND	.44	.31	.24	.21	M22-1910005
Blue, Tin Plated			952-1308-ND	.44	.31	.24	.21	M22-1910046
Red, Gold Plated			952-1309-ND	.44	.31	.24	.21	M22-1920005
Red, Tin Plated			952-1310-ND	.44	.31	.24	.21	M22-1920046
Crimp Contacts and Tools								
24-30AWG, Gold			952-1335-1-ND†	.26	.17	.10	.09	M22-3040042
24-30AWG, Gold			952-1335-2-ND‡	370.00/10,000				M22-3040042
24-30AWG, Tin			952-1336-1-ND†	.21	.13	.08	.07	M22-3040046
24-30AWG, Tin			952-1336-2-ND‡	300.00/10,000				M22-3040046
24-30AWG, Gold			952-1337-ND	7.50	6.94	6.23	5.82	M22-3050042
24-30AWG, Tin			952-1338-ND	7.22	6.68	6.00	5.60	M22-3050046
Tool Hand Crimp,M22			952-1364-ND	364.00	350.00	—	—	Z22-020

† Cut Tape ‡ Tape and Reel

NEW! 1.27mm Minitek™ Connectors

Fig. 1

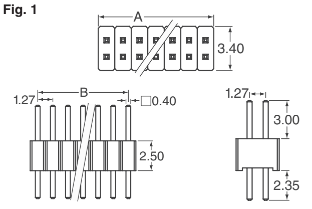

Fig. 2

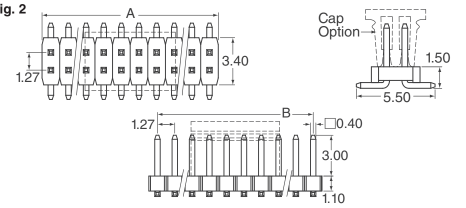

Fig. 3

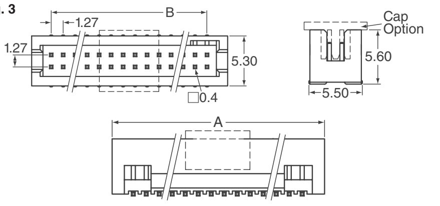

Fig. 4

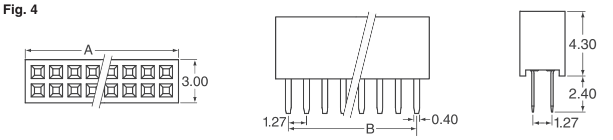

Fig. 5

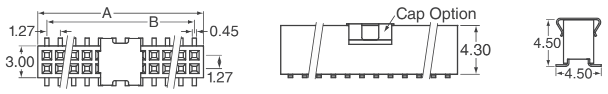

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Pricing			FCI Part No.
		A	B		1	25	100	
Dual Row Unshrouded Vertical Header, Through Hole								
1	6	3.81	2.81	609-3710-ND	.65	8.14	26.06	20021111-00006T4LF
	8	5.08	4.08	609-3711-ND	.83	10.36	33.66	20021111-00008T4LF
	10	6.35	5.35	609-3712-ND	.98	12.26	41.40	20021111-00010T4LF
	12	7.62	6.62	609-3713-ND	1.09	14.33	49.50	20021111-00012T4LF
	14	8.89	7.89	609-3714-ND	1.21	16.59	55.81	20021111-00014T4LF
	16	10.16	9.16	609-3715-ND	1.35	18.11	62.10	20021111-00016T4LF
	18	11.43	10.43	609-3716-ND	1.46	20.43	70.06	20021111-00018T4LF
	20	12.70	11.70	609-3717-ND	1.60	21.68	75.88	20021111-00020T4LF
	22	13.97	12.97	609-3718-ND	1.76	23.76	83.16	20021111-00022T4LF
	24	15.24	14.24	609-3719-ND	1.87	26.01	91.02	20021111-00024T4LF
	26	16.51	15.51	609-3720-ND	1.97	28.11	97.26	20021111-00026T4LF
	30	19.05	18.05	609-3721-ND	2.22	31.76	112.71	20021111-00030T4LF
	34	21.59	20.59	609-3722-ND	2.43	35.84	127.17	20021111-00034T4LF
	36	22.86	21.86	609-3723-ND	2.54	38.03	132.60	20021111-00036T4LF
	40	25.40	24.40	609-3724-ND	2.78	41.30	147.80	20021111-00040T4LF
	50	31.75	30.75	609-3725-ND	3.24	49.89	175.84	20021111-00050T4LF
	60	38.10	37.10	609-3726-ND	3.79	60.39	212.85	20021111-00060T4LF
	80	50.80	49.80	609-3727-ND	4.84	75.59	276.45	20021111-00080T4LF
	90	57.15	56.15	609-3728-ND	5.39	85.82	313.86	20021111-00090T4LF
Dual Row Unshrouded Vertical Header, SMD								
2	4	2.54	1.54	609-3692-1-ND†	.78	9.83	31.94	20021121-00004C4LF
	4	2.54	1.54	609-3692-2-ND‡	257.17/900			20021121-00004C4LF
	6	3.81	2.81	609-3693-1-ND†	.94	11.78	39.81	20021121-00006C4LF
	6	3.81	2.81	609-3693-2-ND‡	322.85/900			20021121-00006C4LF
	8	5.08	4.08	609-3694-1-ND†	1.02	14.01	47.12	20021121-00008C4LF
	8	5.08	4.08	609-3694-2-ND‡	380.14/900			20021121-00008C4LF
	10	6.35	5.35	609-3729-ND	1.12	14.70	50.79	20021121-00010T4LF
	10	6.35	5.35	609-3695-1-ND†	1.17	16.50	54.00	20021121-00010C4LF
	10	6.35	5.35	609-3695-2-ND‡	442.02/900			20021121-00010C4LF
	12	7.62	6.62	609-3696-1-ND†	1.35	18.15	62.23	20021121-00012C4LF
	12	7.62	6.62	609-3696-2-ND‡	499.37/900			20021121-00012C4LF
	14	8.89	7.89	609-3730-ND	1.42	19.16	65.70	20021121-00014T4LF
	16	10.16	9.16	609-3697-1-ND†	1.61	21.81	76.34	20021121-00016C4LF
	16	10.16	9.16	609-3697-2-ND‡	630.05/900			20021121-00016C4LF
	18	11.43	10.43	609-3731-ND	1.71	23.08	80.78	20021121-00018T4LF
	20	12.70	11.70	609-3698-1-ND†	1.84	26.32	91.05	20021121-00020C4LF
	20	12.70	11.70	609-3698-2-ND‡	760.19/900			20021121-00020C4LF
	22	13.97	12.97	609-3732-ND	1.95	27.92	96.59	20021121-00022T4LF
	24	15.24	14.24	609-3733-ND	2.06	30.36	105.03	20021121-00024T4LF
	26	16.51	15.51	609-3734-ND	2.23	31.96	113.40	20021121-00026T4LF
	30	19.05	18.05	609-3735-ND	2.44	36.67	127.87	20021121-00030T4LF
	34	21.59	20.59	609-3736-ND	2.76	41.43	144.47	20021121-00034T4LF
	36	22.86	21.86	609-3737-ND	2.88	42.68	152.76	20021121-00036T4LF
	40	25.40	24.40	609-3738-ND	3.08	47.26	164.16	20021121-00040T4LF
	50	31.75	30.75	609-3739-ND	3.71	57.21	201.63	20021121-00050T4LF
	60	38.10	37.10	609-3740-ND	4.29	66.59	241.19	20021121-00060T4LF
	80	50.80	49.80	609-3741-ND	5.41	86.03	314.62	20021121-00080T4LF
	90	57.15	56.15	609-3742-ND	5.74	95.47	342.13	20021121-00090T4LF
Dual Row Shrouded Vertical Header, SMD								
3	6	6.80	2.54	609-3699-1-ND†	1.39	19.16	65.68	20021221-00006C4LF
	6	6.80	2.54	609-3699-2-ND‡	477.85/800			20021221-00006C4LF
	8	8.07	3.81	609-3743-ND	1.42	19.91	68.26	20021221-00008T4LF
	10	9.34	5.08	609-3700-1-ND†	1.59	21.55	75.41	20021221-00010C4LF
	10	9.34	5.08	609-3700-2-ND‡	553.32/800			20021221-00010C4LF
	12	10.16	6.35	609-3701-1-ND†	1.62	22.50	78.75	20021221-00012C4LF
	12	10.16	6.35	609-3701-2-ND‡	577.80/800			20021221-00012C4LF
	14	11.88	7.62	609-3744-ND	1.70	23.01	80.54	20021221-00014T4LF
	16	13.15	8.89	609-3702-1-ND†	1.76	25.14	86.97	20021221-00016C4LF
	16	13.15	8.89	609-3702-2-ND‡	645.48/800			20021221-00016C4LF
	20	15.69	11.43	609-3703-1-ND†	2.05	29.33	104.08	20021221-00020C4LF
	20	15.69	11.43	609-3703-2-ND‡	772.44/800			20021221-00020C4LF
	26	19.50	15.24	609-3745-ND	2.48	37.16	129.57	20021221-00026T4LF
	30	22.04	17.78	609-3746-ND	2.85	42.28	151.33	20021221-00030T4LF
	34	24.58	20.32	609-3747-ND	3.09	47.28	164.22	20021221-00034T4LF
	40	28.39	24.13	609-3748-ND	3.55	54.66	192.63	20021221-00040T4LF
	50	34.74	30.48	609-3749-ND	4.31	66.84	242.12	20021221-00050T4LF
	60	41.09	36.83	609-3750-ND	4.91	76.76	280.74	20021221-00060T4LF
	80	53.79	49.53	609-3751-ND	6.18	102.74	368.19	20021221-00080T4LF
Dual Row Vertical Receptacle, Through Hole								
4	6	5.19	2.81	609-3752-ND	1.05	13.86	46.82	20021311-00006T4LF
	8	6.92	4.08	609-3753-ND	1.13	15.55	52.30	20021311-00008T4LF
	10	8.65	5.35	609-3754-ND	1.39	18.76	64.33	20021311-00010T4LF
	12	10.38	6.62	609-3755-ND	1.60	22.40	76.79	20021311-00012T4LF
	14	12.11	7.89	609-3756-ND	1.78	24.71	86.49	20021311-00014T4LF
	16	13.84	9.16	609-3757-ND	1.97	28.20	97.55	20021311-00016T4LF
	18	15.57	10.43	609-3758-ND	2.19	31.38	111.34	20021311-00018T4LF
	20	17.30	11.70	609-3759-ND	2.33	34.41	122.10	20021311-00020T4LF
	22	19.03	12.97	609-3760-ND	2.56	38.39	133.88	20021311-00022T4LF
	24	20.76	14.24	609-3761-ND	2.75	41.18	143.62	20021311-00024T4LF
	26	22.49	15.51	609-3762-ND	2.89	44.24	158.34	20021311-00026T4LF
	30	25.95	18.05	609-3763-ND	3.29	50.44	175.21	20021311-00030T4LF
	34	29.41	20.59	609-3764-ND	3.64	56.12	197.78	20021311-00034T4LF
	36	31.14	21.86	609-3765-ND	3.74	58.02	210.16	20021311-00036T4LF
	40	34.60	24.40	609-3766-ND	4.10	63.69	230.71	20021311-00040T4LF
	50	43.25	30.75	609-3767-ND	4.92	76.87	281.12	20021311-00050T4LF
	60	51.90	37.10	609-3768-ND	5.73	92.86	339.60	20021311-00060T4LF
	80	69.20	49.80	609-3769-ND	7.16	123.94	438.45	20021311-00080T4LF
	90	77.85	56.15	609-3770-ND	7.93	134.81	485.30	20021311-00090T4LF
Dual Row Vertical Receptacle, SMD								
5	6	5.19	2.81	609-3704-1-ND†	1.21	17.05	55.80	20021321-00006C4LF
	6	5.19	2.81	609-3704-2-ND‡	411.31/800			20021321-00006C4LF
	8	6.92	4.08	609-3705-1-ND†	1.29	17.33	59.40	20021321-00008C4LF
	8	6.92	4.08	609-3705-2-ND‡	1296.58/2,400			20021321-00008C4LF
	10	8.65	5.35	609-3706-1-ND†	1.33	18.44	63.22	20021321-00010C4LF
	10	8.65	5.35	609-3706-2-ND‡	1379.94/2,400			20021321-00010C4LF
	12	10.38	6.62	609-3707-1-ND†	1.52	20.51	71.79	20021321-00012C4LF
	12	10.38	6.62	609-3707-2-ND‡	526.68/800			20021321-00012C4LF
	14	12.11	7.89	609-3771-ND	1.44	20.15	69.10	20021321-00014T4LF
	16	13.84	9.16	609-3708-1-ND†	1.86	26.53	91.79	20021321-00016C4LF
	16	13.84	9.16	609-3708-2-ND‡	681.24/800			20021321-00016C4LF
	18	15.57	10.43	609-3772-ND	2.00	28.64	99.09	20021321-00018T4LF
	20	17.30	11.70	609-3709-1-ND†	2.21	31.74	112.62	20021321-00020C4LF
	20	17.30	11.70	609-3709-2-ND‡	808.06/800			20021321-00020C4LF
	22	19.03	12.97	609-3773-ND	2.31	34.14	121.15	20021321-00022T4LF
	24	20.76	14.24	609-3774-ND	2.51	37.69	131.44	20021321-00024T4LF
	26	22.49	15.51	609-3775-ND	2.71	40.60	141.58	20021321-00026T4LF
	30	25.95	18.05	609-3776-ND	3.00	45.93	159.54	20021321-00030T4LF
	34	29.41	20.59	609-3777-ND	3.29	50.69	178.63	20021321-00034T4LF
	36	31.14	21.86	609-3778-ND	3.48	53.65	189.08	20021321-00036T4LF
	40	34.60	24.40	609-3779-ND	3.73	57.93	209.83	20021321-00040T4LF
	50	43.25	30.75	609-3780-ND	4.51	72.52	257.84	20021321-00050T4LF
	60	51.90	37.10	609-3781-ND	5.32	84.70	309.76	20021321-00060T4LF
	80	69.20	49.80	609-3782-ND	6.68	111.06	398.01	20021321-00080T4LF
	90	77.85	56.15	609-3783-ND	7.24	125.17	442.78	20021321-00090T4LF

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

2mm Minitek™ Connectors

Fig. 1
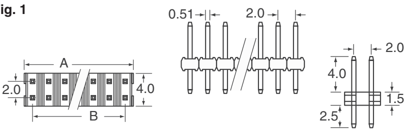

Fig. 2
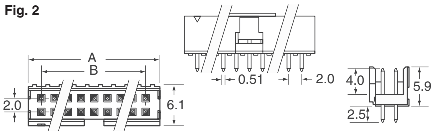

Fig. 3
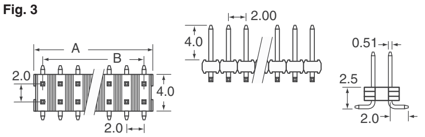

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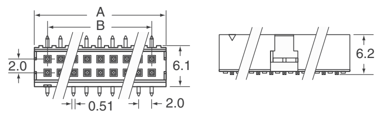

Fig. 5
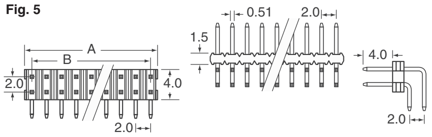

Fig. 6
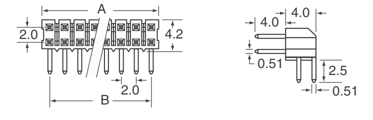

Fig. 7
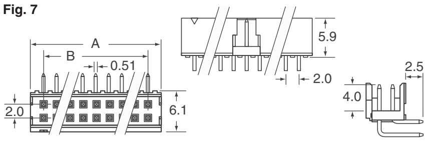

Fig. 8
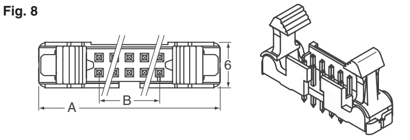

Fig. 9
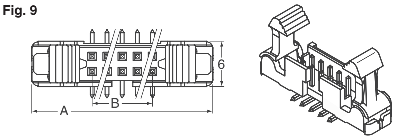

Fig. 10
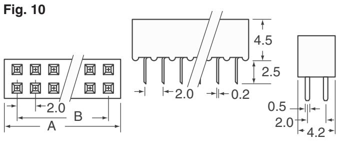

Fig. 11
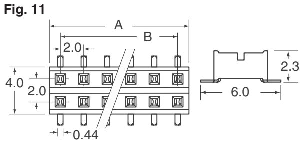

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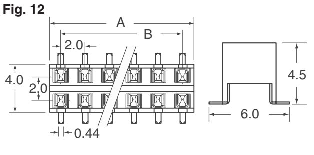

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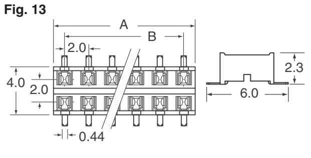

Fig. 14
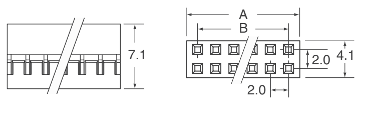

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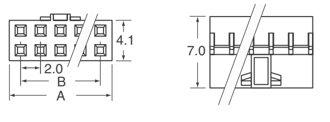

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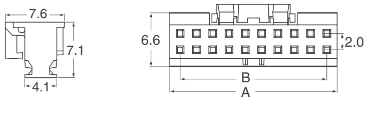

Fig. 17
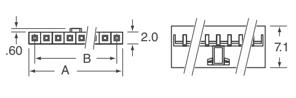

Fig. 18
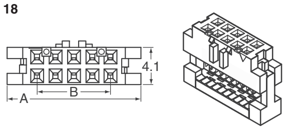

Fig. 19
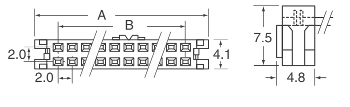

Fig. 20
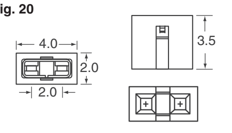

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	FCI Part No.
Dual Row Unshrouded Vertical Headers, Through Hole								
1	4	4.00	2.00	609-2591-ND	1.05	13.38	45.18	57102-G06-02LF
	6	6.00	4.00	609-2583-ND	.96	12.28	41.63	57102-G06-03LF
	8	8.00	6.00	609-2602-ND	1.14	15.65	52.65	57102-G06-04LF
	10	10.00	8.00	609-2590-ND	1.72	23.81	81.63	57102-G06-05LF
	12	12.00	10.00	609-2595-ND	2.07	28.57	97.94	57102-G06-06LF
	14	14.00	12.00	609-2596-ND	2.33	32.16	110.27	57102-G06-07LF
	16	16.00	14.00	609-2597-ND	2.46	33.26	116.39	57102-G06-08LF
	20	20.00	18.00	609-2593-ND	1.58	21.40	74.90	57102-G06-10LF
	22	22.00	20.00	609-2594-ND	3.16	43.64	149.63	57102-G06-11LF
	26	26.00	24.00	609-2599-ND	3.24	47.90	169.97	57102-G06-13LF
	30	30.00	28.00	609-2603-ND	3.40	52.43	184.79	57102-G06-15LF
	32	32.00	30.00	609-2604-ND	3.87	57.44	205.56	57102-G06-16LF
	34	34.00	32.00	609-2605-ND	3.98	61.02	218.40	57102-G06-17LF
	36	36.00	34.00	609-2600-ND	4.22	64.62	224.47	57102-G06-18LF
	40	40.00	38.00	609-2589-ND	4.08	62.92	221.75	57102-G06-20LF
	44	44.00	42.00	609-2608-ND	4.17	64.71	234.39	57102-G06-22LF
	50	50.00	48.00	609-2624-ND	2.80	41.52	148.58	57102-G06-25LF
Dual Row Unshrouded Vertical Headers, Through Hole, Pin-in-Paste								
1	8	8.00	6.00	609-2888-ND§	1.78	24.08	84.26	10075024-G01-04ULF
	10	10.00	8.00	609-2889-ND§	1.20	16.68	58.38	10075024-G01-05ULF
	12	12.00	10.00	609-2890-ND§	1.53	21.52	70.42	10075024-G01-06ULF
	20	20.00	18.00	609-2894-ND§	2.66	39.26	139.33	10075024-G01-10ULF
	22	22.00	20.00	609-2895-ND§	2.92	43.75	152.56	10075024-G01-11ULF
	26	26.00	24.00	609-2897-ND§	3.32	50.83	176.55	10075024-G01-13ULF
	32	32.00	30.00	609-2900-ND§	3.80	58.53	206.29	10075024-G01-16ULF
	34	34.00	32.00	609-2901-ND§	3.93	60.66	213.79	10075024-G01-17ULF
	36	36.00	34.00	609-2902-ND§	3.94	61.09	221.29	10075024-G01-18ULF
	40	40.00	38.00	609-2904-ND§	4.27	66.27	240.03	10075024-G01-20ULF
	42	42.00	40.00	609-2905-ND§	4.50	69.89	253.17	10075024-G01-21ULF
	44	44.00	42.00	609-2906-ND§	4.70	73.00	264.42	10075024-G01-22ULF
	46	46.00	44.00	609-2907-ND§	4.77	76.63	272.45	10075024-G01-23ULF
	48	48.00	46.00	609-2908-ND§	4.96	79.73	283.49	10075024-G01-24ULF
	50	50.00	48.00	609-2909-ND§	5.28	82.55	301.89	10075024-G01-25ULF
Dual Row Shrouded Vertical Headers, Through Hole								
2	6	8.00	4.00	609-3628-ND	1.01	12.88	43.51	98414-G06-06LF
	6	8.00	4.00	609-3103-ND	1.45	20.02	68.63	98414-G06-06ULF
	8	10.00	6.00	609-3104-ND	1.17	16.15	54.33	98414-G06-08ULF
	10	12.00	8.00	609-2580-ND	1.74	24.15	84.53	98414-G06-10LF
	10	12.00	8.00	609-3105-ND	1.36	18.35	62.93	98414-G06-10ULF
2	12	14.00	10.00	609-2581-ND	2.09	28.98	101.43	98414-G06-12LF
	12	14.00	10.00	609-3106-ND	1.63	22.03	77.09	98414-G06-12ULF
	14	16.00	12.00	609-2576-ND	2.23	31.00	108.48	98414-G06-14LF
	16	18.00	14.00	609-2577-ND	1.76	23.85	83.46	98414-G06-16LF
	16	18.00	14.00	609-3107-ND	2.06	29.37	101.60	98414-G06-16ULF
	20	22.00	18.00	609-2582-ND	2.09	29.81	103.13	98414-G06-20LF
	20	22.00	18.00	609-3108-ND	2.42	35.79	127.00	98414-G06-20ULF
	22	24.00	20.00	609-2585-ND	2.88	43.17	150.54	98414-G06-22LF
	26	28.00	24.00	609-2607-ND	3.24	49.71	177.92	98414-G06-26LF
	34	36.00	32.00	609-2588-ND	4.11	63.29	223.07	98414-G06-34LF
	44	46.00	42.00	609-2606-ND	4.46	71.73	255.04	98414-G06-44LF
	50	52.00	48.00	609-2584-ND	5.07	79.25	289.82	98414-G06-50LF
Dual Row Shrouded Vertical Headers, Through Hole, Pin-in-Paste								
2	6	14.00	10.00	609-2935-ND§	1.95	27.04	94.64	10075025-G01-06LF
	10	22.00	18.00	609-2937-ND§	1.29	17.86	62.49	10075025-G01-10ULF
	12	26.00	22.00	609-2938-ND§	1.63	21.98	75.35	10075025-G01-12ULF
	14	30.00	26.00	609-2939-ND§	1.85	25.85	88.63	10075025-G01-14ULF
	16	34.00	30.00	609-2940-ND§	2.48	34.47	120.65	10075025-G01-16ULF
	20	42.00	38.00	609-2942-ND§	2.80	42.01	146.51	10075025-G01-20ULF
	26	54.00	50.00	609-2945-ND§	3.55	54.38	188.91	10075025-G01-26ULF
	40	82.00	78.00	609-2952-ND§	4.57	70.91	256.86	10075025-G01-40ULF
	50	102.00	98.00	609-2957-ND§	5.55	88.33	323.04	10075025-G01-50ULF
Dual Row Unshrouded Vertical Headers, SMD								
3	4	4.00	2.00	609-2614-ND	1.03	13.16	44.46	57202-G52-02LF
	6	6.00	4.00	609-2615-ND	2.04	28.12	94.57	57202-G52-03LF
	8	8.00	6.00	609-2623-ND	.79	9.85	32.02	57202-G52-04LF
	10	10.00	8.00	609-2610-ND	.92	11.53	39.10	57202-G52-05LF
	12	12.00	10.00	609-2618-ND	1.04	13.54	45.73	57202-G52-06LF
	14	14.00	12.00	609-2619-ND	1.12	15.44	51.95	57202-G52-07LF
	16	16.00	14.00	609-2620-ND	1.28	17.66	59.39	57202-G52-08LF
	20	20.00	18.00	609-2622-ND	1.52	21.06	72.22	57202-G52-10LF
	22	22.00	20.00	609-2616-ND	3.24	48.58	169.42	57202-G52-11LF
	30	30.00	28.00	609-2628-ND	4.21	63.15	220.20	57202-G52-15LF
	32	32.00	30.00	609-2633-ND	2.18	32.10	111.05	57202-G52-16LF
	36	36.00	34.00	609-2630-ND	4.56	70.27	247.65	57202-G52-18LF
	40	40.00	38.00	609-2632-ND	4.60	73.89	262.70	57202-G52-20LF
	44	44.00	42.00	609-2627-ND	4.57	73.50	261.34	57202-G52-22LF
	50	50.00	48.00	609-2638-ND	5.20	81.17	296.86	57202-G52-25LF

Δ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm *(Continued)*

2mm Minitek™ Connectors *(Cont.)*

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Pricing			FCI Part No.
		A	B		1	25	100	
Dual Row Shrouded Vertical Headers, SMD								
4	4	10.00	6.00	609-2993-1-NDΔ	1.25	17.56	57.47	98424-G52-04ALF
	4	10.00	6.00	609-2993-2-ND★		397.23/750		98424-G52-04ALF
	6	14.00	10.00	609-3629-ND	1.35	18.12	62.12	98424-G52-06LF
	6	14.00	10.00	609-2994-1-NDΔ	.85	10.67	36.17	98424-G52-06ALF
	6	14.00	10.00	609-2994-2-ND★		242.67/750		98424-G52-06ALF
	8	18.00	14.00	609-2995-1-NDΔ	1.01	13.24	45.75	98424-G52-08ALF
	8	18.00	14.00	609-2995-2-ND★		309.24/750		98424-G52-08ALF
	10	12.00	8.00	609-2648-1-NDΔ	1.10	15.16	51.00	98424-G52-10ALF
	10	12.00	8.00	609-2648-2-ND★		283.20/600		98424-G52-10ALF
	10	11.40	8.00	609-3627-1-NDΔ	1.83	26.10	90.31	98424-F52-10ALF
	10	11.40	8.00	609-3627-2-ND★		502.65/600		98424-F52-10ALF
	12	14.00	10.00	609-2642-1-NDΔ	1.22	16.75	56.35	98424-G52-12ALF
	12	14.00	10.00	609-2642-2-ND★		312.86/600		98424-G52-12ALF
	14	16.00	12.00	609-2643-1-NDΔ	1.44	19.87	68.13	98424-G52-14ALF
	14	16.00	12.00	609-2643-2-ND★		376.65/600		98424-G52-14ALF
	16	18.00	14.00	609-2652-1-NDΔ	1.51	20.41	71.42	98424-G52-16ALF
	16	18.00	14.00	609-2652-2-ND★		406.13/600		98424-G52-16ALF
	20	22.00	18.00	609-2644-1-NDΔ	1.79	24.81	86.84	98424-G52-20ALF
	20	22.00	18.00	609-2644-2-ND★		487.37/600		98424-G52-20ALF
	22	24.00	20.00	609-2645-1-NDΔ	3.59	52.87	182.91	98424-G52-22ALF
	22	24.00	20.00	609-2645-2-ND★		1018.17/600		98424-G52-22ALF
	26	28.00	24.00	609-2640-1-NDΔ	2.14	30.64	108.73	98424-G52-26ALF
	26	28.00	24.00	609-2640-2-ND★		605.25/600		98424-G52-26ALF
	28	30.00	26.00	609-2647-1-NDΔ	4.35	64.27	228.08	98424-G52-28ALF
	28	30.00	26.00	609-2647-2-ND★		1269.63/600		98424-G52-28ALF
	34	36.00	32.00	609-2641-1-NDΔ	2.62	39.24	136.85	98424-G52-34ALF
	34	36.00	32.00	609-2641-2-ND★		775.17/600		98424-G52-34ALF
	40	42.00	38.00	609-2651-1-NDΔ	2.91	44.53	154.67	98424-G52-40ALF
	40	42.00	38.00	609-2651-2-ND★		1163.48/800		98424-G52-40ALF
	44	46.00	42.00	609-2650-1-NDΔ	3.08	47.43	167.16	98424-G52-44ALF
	44	46.00	42.00	609-2650-2-ND★		1250.92/800		98424-G52-44ALF
Dual Row Unshrouded Right Angle Headers, Through Hole								
5	4	4.00	2.00	609-2528-ND	1.75	24.27	84.95	98423-G61-02LF
	6	6.00	4.00	609-2529-ND	1.06	13.29	42.54	98423-G61-03LF
	8	8.00	6.00	609-2574-ND	2.37	31.98	111.91	98423-G61-04LF
	10	10.00	8.00	609-2531-ND	2.15	31.61	109.37	98423-G61-05LF
	12	12.00	10.00	609-2526-ND	2.83	42.07	150.55	98423-G61-06LF
	16	16.00	14.00	609-2573-ND	3.68	54.13	187.27	98423-G61-08LF
	34	34.00	32.00	609-2563-ND	6.06	94.10	340.83	98423-G61-17LF
	40	40.00	38.00	609-2554-ND	6.42	99.63	360.88	98423-G61-20LF
6	8	8.00	6.00	609-2635-ND	.82	10.06	33.52	58102-G61-04LF
	10	10.00	8.00	609-2513-ND	2.26	28.24	95.78	58102-G61-05LF
	12	12.00	10.00	609-2514-ND	1.04	13.60	45.94	58102-G61-06LF
	14	14.00	12.00	609-2509-ND	1.45	19.89	66.91	58102-G61-07LF
	16	16.00	14.00	609-2515-ND	1.39	19.16	64.45	58102-G61-08LF
	20	20.00	18.00	609-2518-ND	1.53	21.16	72.54	58102-G61-10LF
	22	22.00	20.00	609-2519-ND	2.16	29.16	102.04	58102-G61-11LF
	24	24.00	22.00	609-2512-ND	1.79	24.18	84.61	58102-G61-12LF
	26	26.00	24.00	609-2520-ND	4.27	59.33	207.66	58102-G61-13LF
	28	28.00	26.00	609-2539-ND	1.97	28.20	97.57	58102-G61-14LF
	32	32.00	30.00	609-2541-ND	1.94	28.54	98.75	58102-G61-16LF
	34	34.00	32.00	609-2540-ND	2.89	41.47	147.17	58102-G61-17LF
	36	36.00	34.00	609-2559-ND	2.49	36.77	130.49	58102-G61-18LF
	38	38.00	36.00	609-2561-ND	2.14	32.14	112.06	58102-G61-19LF
	40	40.00	38.00	609-2562-ND	2.62	39.28	136.97	58102-G61-20LF
	44	44.00	42.00	609-2510-ND	2.60	38.55	137.96	58102-G61-22LF
	48	48.00	46.00	609-2522-ND	2.61	40.04	143.31	58102-G61-24LF
	50	50.00	48.00	609-2527-ND	3.25	49.72	172.72	58102-G61-25LF
Dual Row Shrouded Right Angle Headers, Through Hole								
7	4	6.00	2.00	609-2543-ND	1.14	15.71	52.84	98464-G61-04LF
	6	8.00	4.00	609-2548-ND	3.10	37.18	123.94	98464-G61-06LF
	8	10.00	6.00	609-2547-ND	2.58	35.80	125.30	98464-G61-08LF
	10	12.00	8.00	609-2555-ND	2.81	40.28	142.95	98464-G61-10LF
	10	12.00	8.00	609-3626-ND	1.93	27.54	95.27	98464-G61-10ULF
	12	14.00	10.00	609-2551-ND	3.37	48.34	171.55	98464-G61-12LF
	14	16.00	12.00	609-2839-ND	1.92	27.55	97.78	98464-G61-14ULF
	16	18.00	14.00	609-2556-ND	3.94	59.08	206.02	98464-G61-16LF
	20	22.00	18.00	609-2568-ND	4.27	65.41	234.11	98464-G61-20LF
	22	24.00	20.00	609-2569-ND	4.54	70.05	246.90	98464-G61-22LF
	26	28.00	24.00	609-3096-ND	3.18	48.72	169.22	98464-G61-26ULF
	34	36.00	32.00	609-2557-ND	5.37	86.27	306.75	98464-G61-34LF
	40	42.00	38.00	609-2517-ND	6.82	108.45	396.61	98464-G61-40LF
	50	52.00	48.00	609-2836-ND	2.99	49.75	178.30	98464-G61-50ULF
Dual Row Shrouded Right Angle Headers, Through Hole, Pin-in-Paste								
7	10	22.00	18.00	609-2961-ND	1.01	20.17	69.79	10072354-G01-10ULF
	12	26.00	22.00	609-2962-ND	1.80	24.83	85.12	10072354-G01-12ULF
	26	54.00	50.00	609-2969-ND	3.88	59.83	210.87	10072354-G01-26ULF
Dual Row Eject Latch Vertical Headers, Low Profile, TMT								
8	8	22.00	6.00	609-3144-ND	5.75	93.16	340.69	10078991-G22-08ULF
	10	24.00	8.00	609-3145-ND	5.81	96.72	346.63	10078991-G22-10ULF
Dual Row Eject Latch Vertical Headers, Low Profile, SMD								
9	10	24.00	8.00	609-3149-ND	5.98	99.50	356.58	10078995-G02-10ULF
Dual Row Vertical Receptacles, Through Hole								
10	4	4.80	2.00	609-2670-ND	1.06	13.60	45.92	63453-104LF
	6	6.80	4.00	609-2656-ND	1.13	14.77	51.03	63453-106LF
	8	8.80	6.00	609-2780-ND	1.45	19.54	66.98	63453-108LF
	10	10.80	8.00	609-2657-ND	1.66	22.39	78.35	63453-110LF
	12	12.80	10.00	609-2658-ND	2.01	27.92	97.70	63453-112LF
	14	14.80	12.00	609-2659-ND	2.13	31.34	108.42	63453-114LF
	16	16.80	14.00	609-2660-ND	2.46	36.28	128.76	63453-116LF
	18	18.80	16.00	609-2663-ND	2.62	39.28	136.97	63453-118LF
	20	20.80	18.00	609-2661-ND	2.87	42.53	152.22	63453-120LF
10	22	22.80	20.00	609-2662-ND	3.05	46.78	162.49	63453-122LF
	24	24.80	22.00	609-2664-ND	3.33	51.04	177.29	63453-124LF
	26	26.80	24.00	609-2665-ND	3.63	55.94	197.15	63453-126LF
	28	28.80	26.00	609-2666-ND	3.76	57.97	204.32	63453-128LF
	30	30.80	28.00	609-2667-ND	3.89	60.44	218.91	63453-130LF
	32	32.80	30.00	609-2668-ND	4.15	64.47	233.51	63453-132LF
	34	34.80	32.00	609-2655-ND	4.41	68.49	248.10	63453-134LF
	36	36.80	34.00	609-2687-ND	4.67	72.52	262.67	63453-136LF
	38	38.80	36.00	609-2681-ND	4.76	76.55	272.18	63453-138LF
	40	40.80	38.00	609-2679-ND	5.21	81.41	297.73	63453-140LF
	42	42.80	40.00	609-2686-ND	5.26	82.26	300.83	63453-142LF
	44	44.80	42.00	609-2691-ND	6.14	94.67	333.66	63453-144LF
	46	46.80	44.00	609-2725-ND	5.66	90.09	329.46	63453-146LF
	48	48.80	46.00	609-2674-ND	5.80	94.01	343.79	63453-148LF
	50	50.80	48.00	609-2675-ND	5.82	96.81	346.94	63453-150LF
Dual Row Vertical Receptacles, Top Entry, Low Profile, SMD								
11	6	5.92	4.00	609-2703-ND	1.68	22.76	79.66	55508-106LF
	8	7.92	6.00	609-2704-ND	2.12	31.25	108.11	55508-108LF
	10	9.92	8.00	609-2705-ND	2.47	36.44	129.30	55508-110LF
	12	11.92	10.00	609-2706-ND	2.29	32.87	116.65	55508-112LF
	20	19.92	18.00	609-2710-ND	2.52	37.23	132.12	55508-120LF
	24	23.92	22.00	609-2709-ND	2.93	43.53	155.81	55508-124LF
	30	29.92	28.00	609-2713-ND	3.57	55.06	194.05	55508-130LF
12	6	5.92	4.00	609-2677-ND	1.49	20.59	70.60	55510-106LF
	8	7.92	6.00	609-2727-ND	1.91	26.54	92.89	55510-108LF
	10	9.92	8.00	609-2678-ND	2.14	31.48	108.90	55510-110LF
	12	11.92	10.00	609-2673-ND	1.76	23.81	83.34	55510-112LF
	14	13.92	12.00	609-2680-ND	1.92	26.73	93.56	55510-114LF
	16	15.92	14.00	609-2682-ND	2.08	30.55	105.69	55510-116LF
	18	17.92	16.00	609-2683-ND	2.34	33.51	118.90	55510-118LF
	20	19.92	18.00	609-2684-ND	2.52	37.23	132.12	55510-120LF
	22	21.92	20.00	609-2685-ND	2.73	40.95	142.82	55510-122LF
	24	23.92	22.00	609-2669-ND	2.93	43.53	155.81	55510-124LF
	26	25.92	24.00	609-2671-ND	3.20	49.00	170.21	55510-126LF
	28	27.92	26.00	609-2672-ND	3.31	50.78	176.40	55510-128LF
	30	29.92	28.00	609-2688-ND	3.44	52.98	186.72	55510-130LF
	32	31.92	30.00	609-2700-ND	3.67	56.51	199.17	55510-132LF
	34	33.92	32.00	609-2693-ND	3.89	60.05	211.62	55510-134LF
	38	37.92	36.00	609-2695-ND	4.21	65.29	236.50	55510-138LF
	40	39.92	38.00	609-2696-ND	4.43	68.73	248.95	55510-140LF
	48	47.92	46.00	609-2692-ND	5.13	80.19	293.25	55510-148LF
	50	49.92	48.00	609-2701-ND	5.56	86.80	317.46	55510-150LF
Dual Row Vertical Receptacles, Bottom Entry, Low Profile, SMD								
13	4	3.92	2.00	609-2690-ND	1.55	21.35	73.21	91596-104LF
	6	5.92	4.00	609-2726-ND	1.48	19.91	68.27	91596-106LF
	8	7.92	6.00	609-2765-ND	1.82	25.28	88.46	91596-108LF
	10	9.92	8.00	609-2760-ND	2.15	31.60	109.34	91596-110LF
	14	13.92	12.00	609-2779-ND	2.83	42.03	150.43	91596-114LF
	16	15.92	14.00	609-2737-ND	3.13	48.03	166.85	91596-116LF
	18	17.92	16.00	609-2744-ND	3.41	52.61	185.41	91596-118LF
	20	19.92	18.00	609-2730-ND	3.79	58.46	206.03	91596-120LF
	24	23.92	22.00	609-2732-ND	4.40	68.26	247.24	91596-124LF
	30	29.92	28.00	609-2733-ND	5.31	82.95	303.34	91596-130LF
Dual Row Housings without Polarization Key								
14	4	4.39	2.01	609-2751-ND	1.08	14.27	48.18	69307-004LF
	6	6.40	3.99	609-2752-ND	1.02	13.08	44.34	69307-006LF
	8	8.41	5.99	609-2753-ND	1.01	13.27	44.82	69307-008LF
	10	10.39	8.00	609-2747-ND	1.08	14.33	48.41	69307-010LF
	12	12.40	10.00	609-2754-ND	1.22	16.78	56.43	69307-012LF
	14	14.40	11.99	609-2750-ND	1.31	18.54	60.66	69307-014LF
	18	18.39	16.00	609-2757-ND	1.53	21.49	73.67	69307-018LF
	20	20.40	18.01	609-2758-ND	1.63	22.07	77.25	69307-020LF
	22	22.40	19.99	609-2742-ND	1.74	23.54	82.39	69307-022LF
	24	24.41	22.00	609-2745-ND	1.72	23.25	81.38	69307-024LF
	26	26.39	24.00	609-2762-ND	1.88	26.08	91.28	69307-026LF
	30	30.40	27.99	609-2774-ND	1.97	28.09	97.19	69307-030LF
	34	34.40	32.00	609-2767-ND	2.01	29.56	102.28	69307-034LF
	36	36.40	34.01	609-2768-ND	2.10	30.82	106.62	69307-036LF
	38	38.40	35.99	609-2769-ND	2.21	30.92	106.02	69307-038LF
	40	40.41	38.00	609-2770-ND	2.27	32.60	115.69	69307-040LF
	42	42.39	40.01	609-2782-ND	2.39	32.29	113.02	69307-042LF
	44	44.40	42.01	609-2771-ND	2.33	34.43	122.17	69307-044LF
	48	48.41	46.00	609-2773-ND	2.70	37.56	131.44	69307-048LF
	50	50.39	48.01	609-2775-ND	2.50	37.49	130.75	69307-050LF
Dual Row Housings with Polarization Key and Latching								
15	4	4.40	2.00	609-2776-ND	1.08	14.27	48.18	90311-004LF
	6	6.40	4.00	609-2777-ND	.94	11.99	40.66	90311-006LF
	8	8.40	6.00	609-2778-ND	1.01	13.27	44.82	90311-008LF
	10	10.40	8.00	609-2772-ND	1.08	14.33	48.41	90311-010LF
	12	12.40	10.00	609-2797-ND	1.22	16.78	56.43	90311-012LF
	14	14.40	12.00	609-2743-ND	1.31	18.54	60.66	90311-014LF
	16	16.40	14.00	609-2798-ND	1.42	19.66	67.41	90311-016LF
	18	18.40	16.00	609-2789-ND	1.53	21.49	73.67	90311-018LF
	20	20.40	18.00	609-2796-ND	1.63	22.07	77.25	90311-020LF
	22	22.40	20.00	609-2764-ND	1.74	23.54	82.39	90311-022LF
	24	24.40	22.00	609-2763-ND	1.79	24.88	87.08	90311-024LF
	26	26.40	24.00	609-2783-ND	1.88	26.08	91.28	90311-026LF
	28	28.40	26.00	609-2785-ND	1.90	27.15	93.94	90311-028LF
	30	30.40	28.00	609-2786-ND	1.97	28.09	97.19	90311-030LF
	32	32.40	30.00	609-2787-ND	2.20	30.33	104.00	90311-032LF
	34	34.40	32.00	609-2746-ND	2.01	29.56	102.28	90311-034LF
	38	38.40	36.00	609-2790-ND	2.33	31.51	110.29	90311-038LF
	40	40.40	38.00	609-2784-ND	2.27	32.60	115.69	90311-040LF
	42	42.40	40.00	609-2791-ND	2.49	34.55	120.93	90311-042LF
	44	44.40	42.00	609-2793-ND	2.33	34.43	122.17	90311-044LF
	50	50.40	48.00	609-2799-ND	2.50	37.49	130.75	90311-050LF

Δ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

2mm Minitek™ Connectors *(Cont.)*

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	FCI Part No.
16	6	6.54	4.00	609-3097-ND	.97	13.39	45.03	10073599-006LF
	8	8.54	6.00	609-3098-ND	.97	13.39	45.03	10073599-008LF
	10	10.54	8.00	609-3099-ND	.90	11.74	39.65	10073599-010LF
	12	12.54	10.00	609-3100-ND	.97	13.39	45.03	10073599-012LF
	16	16.54	14.00	609-3101-ND	1.15	15.52	53.21	10073599-016LF
	20	20.54	18.00	609-3102-ND	1.32	18.26	62.60	10073599-020LF
Single Row CTW Housing, with Polarization and with Latch								
17	4	8.40	6.00	609-3623-ND	1.02	13.01	43.93	90312-004LF
	8	16.40	14.00	609-3624-ND	1.14	15.74	52.95	90312-008LF
IDC Sockets with Central Key and Friction Latch Bump, Gold								
18	6	10.60	4.00	609-3139-ND	1.25	17.17	57.76	89361-706LF
	6	10.60	4.00	609-3549-ND	1.44	19.33	66.26	89947-706LF
	8	12.60	6.00	609-3140-ND	1.77	23.86	83.51	89361-708LF
	10	14.60	8.00	609-3141-ND	1.56	21.90	75.10	89361-710LF
	12	16.60	10.00	609-3142-ND	1.63	22.02	77.05	89361-712LF
IDC Sockets with Polarization Key and Latching, Gold								
19	10	14.60	8.00	609-2729-ND	1.46	19.60	67.21	89947-710LF
	12	16.60	10.00	609-2736-ND	1.43	19.27	66.06	89947-712LF
	14	18.60	12.00	609-2738-ND	1.66	22.48	78.68	89947-714LF
	16	20.60	14.00	609-2739-ND	1.85	25.69	89.92	89947-716LF
	20	24.60	18.00	609-2740-ND	2.47	36.42	129.23	89947-720LF
	22	26.60	20.00	609-2741-ND	2.66	39.97	139.37	89947-722LF
19	26	30.60	24.00	609-2735-ND	2.71	40.71	141.95	89947-726LF
	30	34.60	28.00	609-2759-ND	2.99	45.77	163.80	89947-730LF
IDC Sockets with Polarization Key, Gold								
19	34	32.00	38.60	609-2855-ND	3.45	53.26	187.71	89947-334LF
	40	38.00	44.60	609-2856-ND	4.06	62.66	220.83	89947-340LF
	44	42.00	48.60	609-2857-ND	4.32	67.06	242.92	89947-344LF
	50	48.00	54.6	609-2858-ND	4.91	76.21	276.04	89947-350LF
Strain Relief								
—	14	—	—	609-2984-ND	1.07	12.81	42.70	10073978-014LF
	20	—	—	609-2986-ND	1.23	14.85	50.35	10073978-020LF
	34	—	—	609-2989-ND	1.43	17.87	60.36	10073978-034LF
	44	—	—	609-2991-ND	1.49	19.55	66.03	10073978-044LF
	50	—	—	609-2992-ND	1.56	21.43	72.09	10073978-050LF
Shunts								
20	2	Gold		609-3625-ND	.40	4.65	14.61	86730-001LF
	2	Gold		609-2637-ND	.84	9.29	28.50	86730-101LF
Female Crimp Terminal								
—	26-30AWG			609-2653-1-NDΔ	.33	3.92	12.15	77138-101LF
	26-30AWG			609-2653-2-ND★	1618.40/20,000			77138-101LF
Hand Crimp Tool								
—	26-30AWG			609-2508-ND	1319.89/1			HT-151

Δ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm

NEW! 1.00mm Connectors

Specifications: • Insulator Material: L.C.P., UL94V-0, black color • Contact Material: Phosphor Bronze • Contact Plating: 10μ" Gold overall • Current Rating: 1A • Insulator Resistance: 1000MΩ minimum • Contact Resistance: 20mΩ maximum • Dielectric Withstanding: 300VAC • Operating Temperature: -40°C ~ 125°C • Processing Temperature: 260°C for 10 seconds maximum

Fig. 1

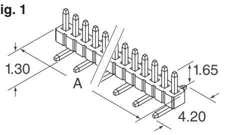

Fig. 2

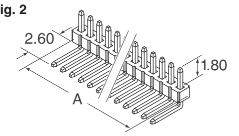

Fig. 3

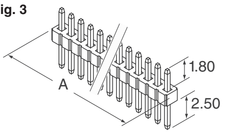

Fig. 4

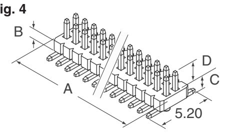

Fig. 5

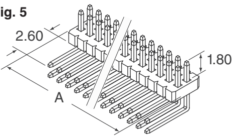

Fig. 6

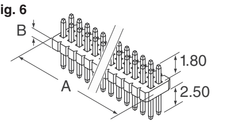

Fig. 7

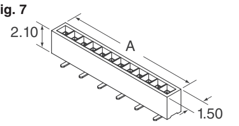

Fig. 8

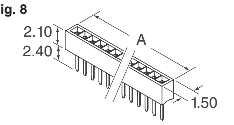

Fig. 9

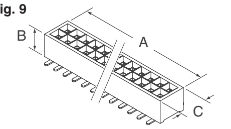

Fig. 10

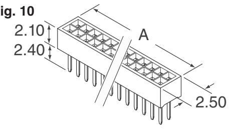

Fig.	Circuits	Dimension - mm A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Male Header, Single Row, SMT										
1	10	10.00	—	—	—	S9210-ND	2.70	2.24	1.43	SMH100-LPSE-S10-SC-BK
	15	15.00	—	—	—	S9212-ND‡	4.24	3.51	2.24	SMH100-LPSE-S15-SD-BK
	20	20.00	—	—	—	S9211-ND	5.64	4.67	2.98	SMH100-LPSE-S20-SC-BK
Male Header, Single Row, R/A Through Hole										
2	20	20.00	—	—	—	S9213-ND	5.36	4.44	2.84	SMH100-LPSE-S20-RA-BK
Male Header, Single Row, Through Hole										
3	10	10.00	—	—	—	S9214-ND	2.49	2.06	1.32	SMH100-LPSE-S10-ST-BK
	15	15.00	—	—	—	S9215-ND	3.75	3.11	1.98	SMH100-LPSE-S15-ST-BK
	20	20.00	—	—	—	S9216-ND	5.01	4.15	2.65	SMH100-LPSE-S20-ST-BK
	25	25.00	—	—	—	S9217-ND	6.23	5.17	3.30	SMH100-LPSE-S25-ST-BK
	30	30.00	—	—	—	S9218-ND	7.49	6.21	3.96	SMH100-LPSE-S30-ST-BK
	40	40.00	—	—	—	S9219-ND	10.01	8.30	5.30	SMH100-LPSE-S40-ST-BK
Male Header, Dual Row, SMT, Post										
4	10	5.00	1.00	1.30	1.65	S9220-ND	2.80	2.32	1.48	SMH101-LPSE-D05-SP-BK
	14	7.00	1.00	1.30	1.65	S9221-ND	3.92	3.25	2.08	SMH101-LPSE-D07-SP-BK
	20	10.00	1.00	1.30	1.65	S9222-ND	5.64	4.67	2.98	SMH101-LPSE-D10-SP-BK
	26	13.00	1.00	1.30	1.65	S9223-ND	7.32	6.07	3.87	SMH101-LPSE-D13-SP-BK
	40	20.00	1.00	1.30	1.65	S9224-ND	11.27	9.34	5.96	SMH101-LPSE-D20-SP-BK
	50	25.00	1.00	1.30	1.65	S9225-ND	14.11	11.69	7.46	SMH101-LPSE-D25-SP-BK
	72	36.00	1.00	1.30	1.65	S9226-ND	20.30	16.82	10.73	SMH101-LPSE-D36-SP-BK
	10	5.00	1.00	1.30	1.90	S9227-ND	2.80	2.32	1.48	SMH102-LPSE-D05-SP-BK
	14	7.00	1.00	1.30	1.90	S9228-ND	3.92	3.25	2.08	SMH102-LPSE-D07-SP-BK
	20	10.00	1.00	1.30	1.90	S9229-ND	5.64	4.67	2.98	SMH102-LPSE-D10-SP-BK
	26	13.00	1.00	1.30	1.90	S9230-ND	7.32	6.07	3.87	SMH102-LPSE-D13-SP-BK
	40	20.00	1.00	1.30	1.90	S9231-ND	11.27	9.34	5.96	SMH102-LPSE-D20-SP-BK
	50	25.00	1.00	1.30	1.90	S9232-ND	14.11	11.69	7.46	SMH102-LPSE-D25-SP-BK
	72	36.00	1.00	1.30	1.90	S9233-ND	20.30	16.82	10.73	SMH102-LPSE-D36-SP-BK
	10	5.00	1.50	1.80	1.65	S9241-ND	2.80	2.32	1.48	SMH151-LPSE-D05-SP-BK
	14	7.00	1.50	1.80	1.65	S9242-ND	3.92	3.25	2.08	SMH151-LPSE-D07-SP-BK
	20	10.00	1.50	1.80	1.65	S9243-ND	5.64	4.67	2.98	SMH151-LPSE-D10-SP-BK
	26	13.00	1.50	1.80	1.65	S9244-ND	7.32	6.07	3.87	SMH151-LPSE-D13-SP-BK
	40	20.00	1.50	1.80	1.65	S9245-ND	11.27	9.34	5.96	SMH151-LPSE-D20-SP-BK
	50	25.00	1.50	1.80	1.65	S9246-ND	14.11	11.69	7.46	SMH151-LPSE-D25-SP-BK
	10	5.00	1.50	1.80	1.90	S9247-ND	2.80	2.32	1.48	SMH152-LPSE-D05-SP-BK
	14	7.00	1.50	1.80	1.90	S9248-ND	3.92	3.25	2.08	SMH152-LPSE-D07-SP-BK
	20	10.00	1.50	1.80	1.90	S9249-ND	5.64	4.67	2.98	SMH152-LPSE-D10-SP-BK
	26	13.00	1.50	1.80	1.90	S9250-ND	7.32	6.07	3.87	SMH152-LPSE-D13-SP-BK
	40	20.00	1.50	1.80	1.90	S9251-ND	11.27	9.34	5.96	SMH152-LPSE-D20-SP-BK
	50	25.00	1.50	1.80	1.90	S9252-ND	14.11	11.69	7.46	SMH152-LPSE-D25-SP-BK
Male Header, Dual Row, R/A Through Hole										
5	50	25.00	—	—	—	S9234-ND	13.44	11.14	7.11	SMH100-LPSE-D25-RA-BK
Male Header, Dual Row, R/A Through Hole										
6	10	5.00	1.00	—	—	S9235-ND	2.52	2.09	1.34	SMH100-LPSE-D05-ST-BK
	14	7.00	1.00	—	—	S9236-ND	3.50	2.90	1.85	SMH100-LPSE-D07-ST-BK
	20	10.00	1.00	—	—	S9237-ND	5.01	4.15	2.65	SMH100-LPSE-D10-ST-BK
	26	13.00	1.00	—	—	S9238-ND	6.51	5.40	3.45	SMH100-LPSE-D13-ST-BK
	40	20.00	1.00	—	—	S9239-ND	10.01	8.30	5.30	SMH100-LPSE-D20-ST-BK
	50	25.00	1.00	—	—	S9240-ND	12.50	10.36	6.61	SMH100-LPSE-D25-ST-BK
	10	5.00	1.50	—	—	S9253-ND	2.52	2.09	1.34	SMH150-LPSE-D05-ST-BK
	14	7.00	1.50	—	—	S9254-ND	3.50	2.90	1.85	SMH150-LPSE-D07-ST-BK
	20	10.00	1.50	—	—	S9255-ND	5.01	4.15	2.65	SMH150-LPSE-D10-ST-BK
	26	13.00	1.50	—	—	S9256-ND	6.51	5.40	3.45	SMH150-LPSE-D13-ST-BK
	40	20.00	1.50	—	—	S9257-ND	10.01	8.30	5.30	SMH150-LPSE-D20-ST-BK
	50	25.00	1.50	—	—	S9258-ND	12.50	10.36	6.61	SMH150-LPSE-D25-ST-BK
Female Header, Single Row, SMT										
7	10	10.50	—	—	—	S9259-ND	3.43	2.85	1.82	SFM210-LPSE-S10-SC-BK
	15	15.50	—	—	—	S9261-ND‡	5.04	4.18	2.67	SFM210-LPSE-S15-SD-BK
	20	20.50	—	—	—	S9260-ND	6.58	5.46	3.48	SFM210-LPSE-S20-SC-BK
Female Header, Single Row, Through Hole										
8	10	10.50	—	—	—	S9262-ND	3.33	2.76	1.76	SFM210-LPSE-S10-ST-BK
	15	15.50	—	—	—	S9263-ND	4.90	4.06	2.59	SFM210-LPSE-S15-ST-BK
	20	20.50	—	—	—	S9264-ND	6.37	5.28	3.37	SFM210-LPSE-S20-ST-BK
	25	25.50	—	—	—	S9265-ND	7.77	6.44	4.11	SFM210-LPSE-S25-ST-BK
	30	30.50	—	—	—	S9266-ND	9.14	7.57	4.83	SFM210-LPSE-S30-ST-BK
	40	40.50	—	—	—	S9267-ND	12.22	10.13	6.46	SFM210-LPSE-S40-ST-BK
Female Header, Dual Row, SMT, Post										
9	10	5.50	2.10	2.50	—	S9268-ND	3.36	2.79	1.78	SFM210-LPSE-D05-SP-BK
	14	7.50	2.10	2.50	—	S9269-ND	4.69	3.89	2.48	SFM210-LPSE-D07-SP-BK
	20	10.50	2.10	2.50	—	S9270-ND	6.48	5.37	3.43	SFM210-LPSE-D10-SP-BK
	26	13.50	2.10	2.50	—	S9271-ND	8.05	6.67	4.26	SFM210-LPSE-D13-SP-BK
	40	20.50	2.10	2.50	—	S9272-ND	12.22	10.13	6.46	SFM210-LPSE-D20-SP-BK
	50	25.50	2.10	2.50	—	S9273-ND	15.05	12.47	7.96	SFM210-LPSE-D25-SP-BK
	72	36.50	2.10	2.50	—	S9274-ND	21.35	17.69	11.29	SFM210-LPSE-D36-SP-BK
	10	5.40	3.15	3.07	—	S9281-ND	3.26	2.70	1.73	SFM315-LPGE-D05-SP-BK
	14	7.40	3.15	3.07	—	S9282-ND	3.78	3.14	2.00	SFM315-LPGE-D07-SP-BK
	20	10.40	3.15	3.07	—	S9283-ND	4.24	3.51	2.24	SFM315-LPGE-D10-SP-BK
	26	13.40	3.15	3.07	—	S9284-ND	5.50	4.56	2.91	SFM315-LPGE-D13-SP-BK
	50	25.40	3.15	3.07	—	S9285-ND	9.77	8.10	5.17	SFM315-LPGE-D25-SP-BK
Female Header, Dual Row, Through Hole										
10	10	5.50	—	—	—	S9275-ND	3.22	2.67	1.71	SFM210-LPSE-D05-ST-BK
	14	7.50	—	—	—	S9276-ND	4.45	3.69	2.35	SFM210-LPSE-D07-ST-BK
	20	10.50	—	—	—	S9277-ND	6.16	5.11	3.26	SFM210-LPSE-D10-ST-BK
	26	13.50	—	—	—	S9278-ND	7.98	6.62	4.22	SFM210-LPSE-D13-ST-BK
	40	20.50	—	—	—	S9279-ND	12.08	10.01	6.39	SFM210-LPSE-D20-ST-BK
	50	25.50	—	—	—	S9280-ND	14.77	12.24	7.81	SFM210-LPSE-D25-ST-BK

‡ Pin 1 at opposite bend

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

1.27mm Connectors

SPECIFICATIONS: • Current Rating: 1A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding: 500VAC • Operating Temperature: -40°C ~ 105°C • Contact Material: Headers: Brass, Receptacles: Phosphor Bronze • Insulator Material: L.C.P., Nylon 9T • Contact Finish: Gold Flash overall

Fig. 1

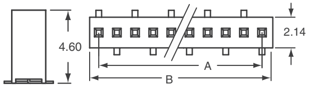

Fig. 2

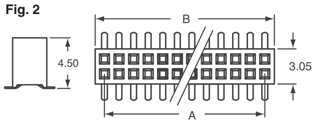

Fig. 3

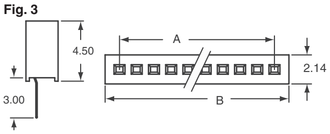

Fig. 4

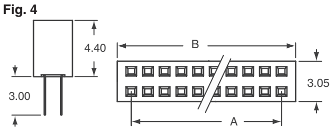

Fig. 5

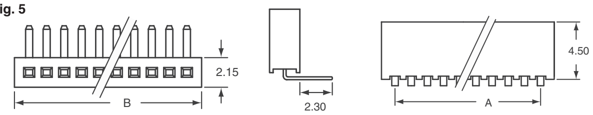

Fig. 6

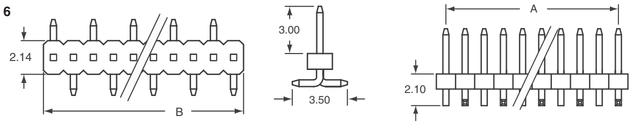

Fig. 7

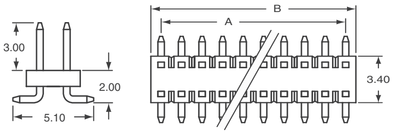

Fig. 8

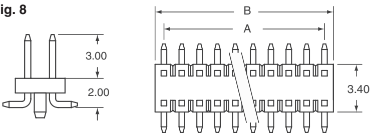

Fig. 9

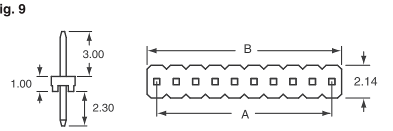

Fig. 10

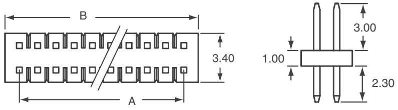

Fig. 11

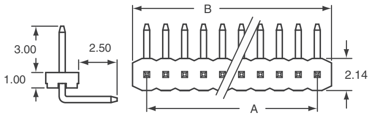

Fig. 12

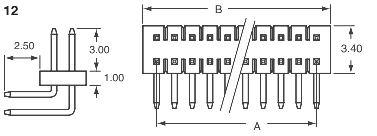

Fig.	Cir-cuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sullins Part No.
Female Header, Single Row, SMT, No Post								
1	3	2.54	4.19	S9005E-03-ND	.77	.69	.57	LPPB031NFSC-RC
	4	3.81	5.46	S9005E-04-ND	.80	.72	.59	LPPB041NFSC-RC
	5	5.08	6.73	S9005E-05-ND	.86	.77	.63	LPPB051NFSC-RC
	6	6.35	8.00	S9005E-06-ND	.91	.82	.68	LPPB061NFSC-RC
	7	7.62	9.27	S9005E-07-ND	1.00	.90	.74	LPPB071NFSC-RC
	8	8.89	10.54	S9005E-08-ND	1.14	1.02	.84	LPPB081NFSC-RC
	9	10.16	11.81	S9005E-09-ND	1.20	1.08	.89	LPPB091NFSC-RC
	10	11.43	13.08	S9005E-10-ND	1.25	1.13	.93	LPPB101NFSC-RC
	11	12.70	14.35	S9005E-11-ND	1.40	1.25	1.03	LPPB111NFSC-RC
	12	13.97	15.62	S9005E-12-ND	1.51	1.36	1.12	LPPB121NFSC-RC
	13	15.24	16.89	S9005E-13-ND	1.65	1.48	1.22	LPPB131NFSC-RC
	50	62.23	63.88	S9005E-50-ND	5.07	4.54	3.74	LPPB501NFSC-RC
Female Header, Dual Row, SMT, No Post								
2	4	1.27	2.92	S9006E-02-ND	.91	.82	.68	LPPB022NFSS-RC
	6	2.54	4.19	S9006E-03-ND	.94	.85	.70	LPPB032NFSS-RC
	8	3.81	5.46	S9006E-04-ND	1.14	1.02	.84	LPPB042NFSS-RC
	10	5.08	6.73	S9006E-05-ND	1.20	1.08	.89	LPPB052NFSS-RC
	12	6.35	8.00	S9006E-06-ND	1.45	1.31	1.08	LPPB062NFSS-RC
	14	7.62	9.27	S9006E-07-ND	1.71	1.53	1.26	LPPB072NFSS-RC
	16	8.89	10.54	S9006E-08-ND	1.94	1.74	1.43	LPPB082NFSS-RC
	18	10.16	11.81	S9006E-09-ND	2.19	1.97	1.62	LPPB092NFSS-RC
	20	11.43	13.08	S9006E-10-ND	2.28	2.04	1.68	LPPB102NFSS-RC
	22	12.70	14.35	S9006E-11-ND	2.45	2.20	1.81	LPPB112NFSS-RC
	24	13.97	15.62	S9006E-12-ND	2.68	2.40	1.98	LPPB122NFSS-RC
	26	15.24	16.89	S9006E-13-ND	2.76	2.48	2.04	LPPB132NFSS-RC
	100	62.23	63.88	S9006E-50-ND	9.18	8.22	6.77	LPPB502NFSS-RC
Female Header, Dual Row, SMT, Post								
2	6	2.54	4.19	S9007E-03-ND	.94	.85	.70	LPPB032NFSP-RC
	8	3.81	5.46	S9007E-04-ND	1.14	1.02	.84	LPPB042NFSP-RC
	10	5.08	6.73	S9007E-05-ND	1.20	1.08	.89	LPPB052NFSP-RC
	12	6.35	8.00	S9007E-06-ND	1.45	1.31	1.08	LPPB062NFSP-RC
	14	7.62	9.27	S9007E-07-ND	1.71	1.53	1.26	LPPB072NFSP-RC
	16	8.89	10.54	S9007E-08-ND	1.94	1.74	1.43	LPPB082NFSP-RC
	18	10.16	11.81	S9007E-09-ND	2.19	1.97	1.62	LPPB092NFSP-RC
	20	11.43	13.08	S9007E-10-ND	2.28	2.04	1.68	LPPB102NFSP-RC
	22	12.70	14.35	S9007E-11-ND	2.45	2.20	1.81	LPPB112NFSP-RC
	24	13.97	15.62	S9007E-12-ND	2.68	2.40	1.98	LPPB122NFSP-RC
	26	15.24	16.89	S9007E-13-ND	2.76	2.48	2.04	LPPB132NFSP-RC
	100	62.23	63.88	S9007E-50-ND	9.18	8.22	6.77	LPPB502NFSP-RC
Female Header, Single Row, Straight Thru Hole								
3	3	2.54	4.19	S9008E-03-ND	.60	.54	.45	LPPB031NFFN-RC
	4	3.81	5.46	S9008E-04-ND	.68	.62	.51	LPPB041NFFN-RC
	5	5.08	6.73	S9008E-05-ND	.74	.67	.55	LPPB051NFFN-RC
	6	6.35	8.00	S9008E-06-ND	.83	.74	.61	LPPB061NFFN-RC
	7	7.62	9.27	S9008E-07-ND	.88	.80	.66	LPPB071NFFN-RC
	8	8.89	10.54	S9008E-08-ND	1.00	.90	.74	LPPB081NFFN-RC
	9	10.16	11.81	S9008E-09-ND	1.14	1.02	.84	LPPB091NFFN-RC
	10	11.43	13.08	S9008E-10-ND	1.20	1.08	.89	LPPB101NFFN-RC
	11	12.70	14.35	S9008E-11-ND	1.31	1.18	.97	LPPB111NFFN-RC
	12	13.97	15.62	S9008E-12-ND	1.43	1.28	1.05	LPPB121NFFN-RC
	13	15.24	16.89	S9008E-13-ND	1.51	1.36	1.12	LPPB131NFFN-RC
	50	62.23	63.88	S9008E-50-ND	5.02	4.49	3.70	LPPB501NFFN-RC
Female Header, Dual Row, Straight Thru Hole								
4	4	1.27	2.92	S9009E-02-ND	.66	.59	.49	LPPB022CFFN-RC
	6	2.54	4.19	S9009E-03-ND	.77	.69	.57	LPPB032CFFN-RC
	8	3.81	5.46	S9009E-04-ND	.88	.80	.66	LPPB042CFFN-RC
	10	5.08	6.73	S9009E-05-ND	1.11	1.00	.82	LPPB052CFFN-RC
	12	6.35	8.00	S9009E-06-ND	1.34	1.20	.99	LPPB062CFFN-RC
	14	7.62	9.27	S9009E-07-ND	1.57	1.41	1.16	LPPB072CFFN-RC
	16	8.89	10.54	S9009E-08-ND	1.77	1.59	1.31	LPPB082CFFN-RC
	18	10.16	11.81	S9009E-09-ND	2.00	1.79	1.47	LPPB092CFFN-RC
	20	11.43	13.08	S9009E-10-ND	2.11	1.89	1.56	LPPB102CFFN-RC
	22	12.70	14.35	S9009E-11-ND	2.31	2.07	1.71	LPPB112CFFN-RC
	24	13.97	15.62	S9009E-12-ND	2.54	2.27	1.87	LPPB122CFFN-RC
	26	15.24	16.89	S9009E-13-ND	2.74	2.45	2.02	LPPB132CFFN-RC
4	100	62.23	63.88	S9009E-50-ND	8.95	8.01	6.60	LPPB502CFFN-RC
Female Header, Single Row, Right Angle Thru Hole								
5	3	2.54	4.19	S9010E-03-ND	.83	.74	.61	LPPB031NGCN-RC
	4	3.81	5.46	S9010E-04-ND	.88	.80	.66	LPPB041NGCN-RC
	5	5.08	6.73	S9010E-05-ND	.94	.85	.70	LPPB051NGCN-RC
	6	6.35	8.00	S9010E-06-ND	1.00	.90	.74	LPPB061NGCN-RC
	7	7.62	9.27	S9010E-07-ND	1.05	.95	.78	LPPB071NGCN-RC
	8	8.89	10.54	S9010E-08-ND	1.11	1.00	.82	LPPB081NGCN-RC
	9	10.16	11.81	S9010E-09-ND	1.20	1.08	.89	LPPB091NGCN-RC
	10	11.43	13.08	S9010E-10-ND	1.37	1.23	1.01	LPPB101NGCN-RC
	11	12.70	14.35	S9010E-11-ND	1.37	1.23	1.01	LPPB111NGCN-RC
	12	13.97	15.62	S9010E-12-ND	1.43	1.28	1.05	LPPB121NGCN-RC
	13	15.24	16.89	S9010E-13-ND	1.51	1.36	1.12	LPPB131NGCN-RC
	50	62.23	63.88	S9010E-50-ND	4.22	3.78	3.11	LPPB501NGCN-RC
Male Header, Single Row, SMT, No Post								
6	3	2.54	3.81	S9011E-03-ND	.26	.23	.19	GRPB031VWTC-RC
	4	3.81	5.08	S9011E-04-ND	.34	.31	.26	GRPB041VWTC-RC
	5	5.08	6.35	S9011E-05-ND	.43	.39	.32	GRPB051VWTC-RC
	6	6.35	7.62	S9011E-06-ND	.54	.49	.40	GRPB061VWTC-RC
	7	7.62	8.89	S9011E-07-ND	.63	.57	.47	GRPB071VWTC-RC
	8	8.89	10.16	S9011E-08-ND	.71	.64	.53	GRPB081VWTC-RC
	9	10.16	11.43	S9011E-09-ND	.80	.72	.59	GRPB091VWTC-RC
	10	11.43	12.70	S9011E-10-ND	.88	.80	.66	GRPB101VWTC-RC
	11	12.70	13.97	S9011E-11-ND	.97	.87	.72	GRPB111VWTC-RC
	12	13.97	15.24	S9011E-12-ND	1.05	.95	.78	GRPB121VWTC-RC
	13	15.24	16.51	S9011E-13-ND	1.17	1.05	.87	GRPB131VWTC-RC
	50	62.23	63.50	S9011E-50-ND	4.42	3.96	3.26	GRPB501VWTC-RC
Male Header, Dual Row, SMT, No Post								
7	2	0.00	1.27	S9012E-01-ND	.70	.63	.52	GRPB012VWQS-RC
	4	1.27	2.54	S9012E-02-ND	.34	.31	.26	GRPB022VWQS-RC
	6	2.54	3.81	S9012E-03-ND	.54	.49	.40	GRPB032VWQS-RC
	8	3.81	5.08	S9012E-04-ND	.71	.64	.53	GRPB042VWQS-RC
	10	5.08	6.35	S9012E-05-ND	.88	.80	.66	GRPB052VWQS-RC
	12	6.35	7.62	S9012E-06-ND	1.05	.95	.78	GRPB062VWQS-RC
	14	7.62	8.89	S9012E-07-ND	1.25	1.13	.93	GRPB072VWQS-RC
	16	8.89	10.16	S9012E-08-ND	1.43	1.28	1.05	GRPB082VWQS-RC
	18	10.16	11.43	S9012E-09-ND	1.60	1.43	1.18	GRPB092VWQS-RC
	20	11.43	12.70	S9012E-10-ND	1.80	1.61	1.33	GRPB102VWQS-RC
	22	12.70	13.97	S9012E-11-ND	1.97	1.76	1.45	GRPB112VWQS-RC
	24	13.97	15.24	S9012E-12-ND	2.14	1.92	1.58	GRPB122VWQS-RC
	26	15.24	16.51	S9012E-13-ND	2.34	2.10	1.73	GRPB132VWQS-RC
	100	62.23	63.50	S9012E-50-ND	9.09	8.14	6.70	GRPB502VWQS-RC
Male Header, Dual Row, SMT, Post								
8	6	2.54	3.81	S9013E-03-ND	.54	.49	.40	GRPB032VWQP-RC
	8	3.81	5.08	S9013E-04-ND	.71	.64	.53	GRPB042VWQP-RC
	10	5.08	6.35	S9013E-05-ND	.88	.80	.66	GRPB052VWQP-RC
	12	6.35	7.62	S9013E-06-ND	1.05	.95	.78	GRPB062VWQP-RC
	14	7.62	8.89	S9013E-07-ND	1.25	1.13	.93	GRPB072VWQP-RC
	16	8.89	10.16	S9013E-08-ND	1.43	1.28	1.05	GRPB082VWQP-RC
	18	10.16	11.43	S9013E-09-ND	1.60	1.43	1.18	GRPB092VWQP-RC
	20	11.43	12.70	S9013E-10-ND	1.80	1.61	1.33	GRPB102VWQP-RC
	22	12.70	13.97	S9013E-11-ND	1.97	1.76	1.45	GRPB112VWQP-RC
	24	13.97	15.24	S9013E-12-ND	2.14	1.92	1.58	GRPB122VWQP-RC
	26	15.24	16.51	S9013E-13-ND	2.34	2.10	1.73	GRPB132VWQP-RC
	100	62.23	63.50	S9013E-50-ND	9.09	8.14	6.70	GRPB502VWQP-RC
Male Header, Single Row, Straight Thru Hole								
9	2	1.27	2.54	S9014E-02-ND	.14	.13	.11	GRPB021VWVN-RC
	3	2.54	3.81	S9014E-03-ND	.17	.16	.13	GRPB031VWVN-RC
	4	3.81	5.08	S9014E-04-ND	.23	.21	.17	GRPB041VWVN-RC
	5	5.08	6.35	S9014E-05-ND	.29	.26	.21	GRPB051VWVN-RC
	6	6.35	7.62	S9014E-06-ND	.37	.34	.28	GRPB061VWVN-RC
	7	7.62	8.89	S9014E-07-ND	.43	.39	.32	GRPB071VWVN-RC
	8	8.89	10.16	S9014E-08-ND	.54	.49	.40	GRPB081VWVN-RC
	9	10.16	11.43	S9014E-09-ND	.54	.49	.40	GRPB091VWVN-RC

(Continued)

SULLINS 1.27mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sullins Part No.
9	10	11.43	12.70	S9014E-10-ND	.60	.54	.45	GRPB101VWVN-RC
	11	12.70	13.97	S9014E-11-ND	.68	.62	.51	GRPB111VWVN-RC
	12	13.97	15.24	S9014E-12-ND	.74	.67	.55	GRPB121VWVN-RC
	13	15.24	16.51	S9014E-13-ND	.80	.72	.59	GRPB131VWVN-RC
	50	62.23	63.50	S9014E-50-ND	3.08	2.76	2.27	GRPB501VWVN-RC
Male Header, Dual Row, Straight Thru Hole								
10	2	0.00	1.27	S9015E-01-ND	.60	.55	.45	GRPB012VWVN-RC
	4	1.27	2.54	S9015E-02-ND	.23	.21	.17	GRPB022VWVN-RC
	6	2.54	3.81	S9015E-03-ND	.37	.34	.28	GRPB032VWVN-RC
	8	3.81	5.08	S9015E-04-ND	.48	.44	.36	GRPB042VWVN-RC
	10	5.08	6.35	S9015E-05-ND	.60	.54	.45	GRPB052VWVN-RC
	12	6.35	7.62	S9015E-06-ND	.74	.67	.55	GRPB062VWVN-RC
	14	7.62	8.89	S9015E-07-ND	.86	.77	.63	GRPB072VWVN-RC
	16	8.89	10.16	S9015E-08-ND	.97	.87	.72	GRPB082VWVN-RC
	18	10.16	11.43	S9015E-09-ND	1.11	1.00	.82	GRPB092VWVN-RC
	20	11.43	12.70	S9015E-10-ND	1.23	1.10	.91	GRPB102VWVN-RC
	22	12.70	13.97	S9015E-11-ND	1.34	1.20	.99	GRPB112VWVN-RC
	24	13.97	15.24	S9015E-12-ND	1.48	1.33	1.10	GRPB122VWVN-RC
	26	15.24	16.51	S9015E-13-ND	1.60	1.43	1.18	GRPB132VWVN-RC
	100	62.23	63.50	S9015E-50-ND	6.18	5.54	4.56	GRPB502VWVN-RC
Male Header, Single Row, Right Angle Thru Hole								
11	2	1.27	2.54	S9016E-02-ND	.72	.64	.53	GRPB021VWCN-RC
	3	2.54	3.81	S9016E-03-ND	.23	.21	.17	GRPB031VWCN-RC
	4	3.81	5.08	S9016E-04-ND	.31	.29	.24	GRPB041VWCN-RC
	5	5.08	6.35	S9016E-05-ND	.40	.36	.30	GRPB051VWCN-RC
11	6	6.35	7.62	S9016E-06-ND	.48	.44	.36	GRPB061VWCN-RC
	7	7.62	8.89	S9016E-07-ND	.57	.51	.42	GRPB071VWCN-RC
	8	8.89	10.16	S9016E-08-ND	.66	.59	.49	GRPB081VWCN-RC
	9	10.16	11.43	S9016E-09-ND	.74	.67	.55	GRPB091VWCN-RC
	10	11.43	12.70	S9016E-10-ND	.83	.74	.61	GRPB101VWCN-RC
	11	12.70	13.97	S9016E-11-ND	.91	.82	.68	GRPB111VWCN-RC
	12	13.97	15.24	S9016E-12-ND	1.00	.90	.74	GRPB121VWCN-RC
	13	15.24	16.51	S9016E-13-ND	1.08	.97	.80	GRPB131VWCN-RC
	50	62.23	63.50	S9016E-50-ND	4.28	3.83	3.15	GRPB501VWCN-RC
Male Header, Dual Row, Right Angle Thru Hole								
12	2	0.00	1.27	S9017E-01-ND	.17	.16	.13	GRPB012MWCN-RC
	4	1.27	2.54	S9017E-02-ND	.37	.34	.28	GRPB022MWCN-RC
	6	2.54	3.81	S9017E-03-ND	.48	.44	.36	GRPB032MWCN-RC
	8	3.81	5.08	S9017E-04-ND	.66	.59	.49	GRPB042MWCN-RC
	10	5.08	6.35	S9017E-05-ND	.83	.74	.61	GRPB052MWCN-RC
	12	6.35	7.62	S9017E-06-ND	1.00	.90	.74	GRPB062MWCN-RC
	14	7.62	8.89	S9017E-07-ND	1.17	1.05	.87	GRPB072MWCN-RC
	16	8.89	10.16	S9017E-08-ND	1.34	1.20	.99	GRPB082MWCN-RC
	18	10.16	11.43	S9017E-09-ND	1.51	1.36	1.12	GRPB092MWCN-RC
	20	11.43	12.70	S9017E-10-ND	1.65	1.48	1.22	GRPB102MWCN-RC
	22	12.70	13.97	S9017E-11-ND	1.82	1.64	1.35	GRPB112MWCN-RC
	24	13.97	15.24	S9017E-12-ND	2.00	1.79	1.47	GRPB122MWCN-RC
	26	15.24	16.51	S9017E-13-ND	2.17	1.94	1.60	GRPB132MWCN-RC
	100	62.23	63.50	S9017E-50-ND	8.46	7.58	6.24	GRPB502MWCN-RC

1.27mm Shrouded Headers and Receptacles

Shrouded Headers: • Insulator Material: Nylon 6T • Contact Material: Brass • Plating: Gold Flash • Operating Temperature: -40°C ~ 85°C • Processing Temp: 230°C for 60 seconds maximum (260°C, 10 seconds) • UL Flammability Rating: 94V-0 • Voltage Rating: 20MΩ maximum • Current Rating: 1A per Contact • Voltage Drop: AC 500V • Insulation Resistance: 1000MΩ **Receptacles:** • Insulator Materials: PBT • Contact Matrials: Phosphor Bronze • Operating Temperature: -40°C ~ 85°C • UL Flammability Rating: 94V-0 •Current Rating: 1A per contact • Dielectric Withstanding: 500V AC R.M.S. for one minute • Contact Resistance: 30mΩ maximum

Fig. 1

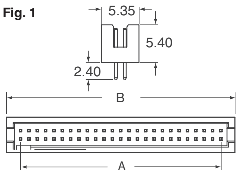

Fig. 2

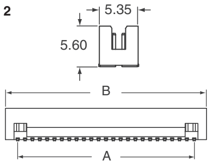

Fig. 3

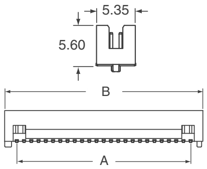

Fig. 4

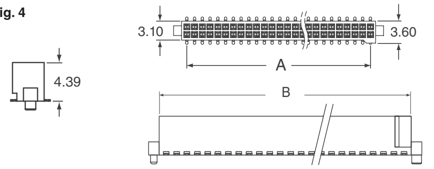

Fig. 5

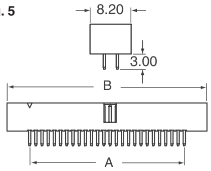

Fig. 6

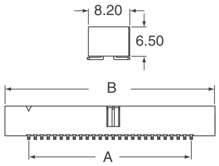

Fig. 7

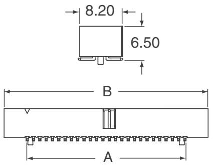

Fig. 8

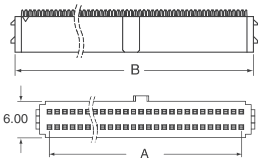

Fig.	Cir-cuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Sullins Part No.
1.27mm x 1.27mm								
Male Header, Straight Thru Hole								
1	10	5.08	9.35	S9085-ND	.80	.72	.51	SBH31-NBPB-D05-ST-BK
	14	7.62	11.89	S9086-ND	1.30	1.18	.84	SBH31-NBPB-D07-ST-BK
	16	8.89	13.16	S9087-ND	1.30	1.18	.84	SBH31-NBPB-D08-ST-BK
	20	11.43	15.70	S9088-ND	1.46	1.32	.94	SBH31-NBPB-D10-ST-BK
	26	15.24	19.51	S9089-ND	1.99	1.80	1.28	SBH31-NBPB-D13-ST-BK
	34	20.32	24.59	S9090-ND	2.60	2.36	1.67	SBH31-NBPB-D17-ST-BK
	40	24.13	28.40	S9091-ND	2.92	2.64	1.87	SBH31-NBPB-D20-ST-BK
	44	26.67	30.94	S9092-ND	2.97	2.69	1.91	SBH31-NBPB-D22-ST-BK
	50	30.48	34.75	S9093-ND	3.37	3.05	2.16	SBH31-NBPB-D25-ST-BK
Male Header, SMT								
2	10	5.08	9.35	S9094-ND	1.01	.92	.65	SBH31-NBPB-D05-SM-BK
	14	7.62	11.89	S9095-ND	1.40	1.28	.91	SBH31-NBPB-D07-SM-BK
	16	8.89	13.16	S9096-ND	1.62	1.47	1.04	SBH31-NBPB-D08-SM-BK
	20	11.43	15.70	S9097-ND	1.83	1.66	1.18	SBH31-NBPB-D10-SM-BK
	26	15.24	19.51	S9098-ND	3.74	3.39	2.40	SBH31-NBPB-D13-SM-BK
	34	20.32	24.59	S9099-ND	3.05	2.76	1.96	SBH31-NBPB-D17-SM-BK
	40	24.13	28.40	S9100-ND	3.42	3.10	2.20	SBH31-NBPB-D20-SM-BK
	44	26.67	30.94	S9101-ND	3.55	3.22	2.28	SBH31-NBPB-D22-SM-BK
	50	30.48	34.75	S9102-ND	4.05	3.68	2.61	SBH31-NBPB-D25-SM-BK
Male Header, SMT, Post								
3	10	5.08	9.35	S9103-ND	1.01	.92	.65	SBH31-NBPB-D05-SP-BK
	14	7.62	11.89	S9104-ND	1.40	1.28	.91	SBH31-NBPB-D07-SP-BK
	16	8.89	13.16	S9105-ND	1.62	1.47	1.04	SBH31-NBPB-D08-SP-BK
	20	11.43	15.70	S9106-ND	1.83	1.66	1.18	SBH31-NBPB-D10-SP-BK
	26	15.24	19.51	S9107-ND	3.74	3.39	2.40	SBH31-NBPB-D13-SP-BK
	34	20.32	24.59	S9108-ND	3.05	2.76	1.96	SBH31-NBPB-D17-SP-BK
	40	24.13	28.40	S9109-ND	3.42	3.10	2.20	SBH31-NBPB-D20-SP-BK
	44	26.67	30.94	S9110-ND	3.55	3.22	2.28	SBH31-NBPB-D22-SP-BK
	50	30.48	34.75	S9111-ND	4.05	3.68	2.61	SBH31-NBPB-D25-SP-BK
Female Header, SMT, Post								
4	10	5.08	6.80	S9112-ND	.85	.77	.55	SFH31-NPPB-D05-SP-BK
	14	7.62	9.34	S9113-ND	1.19	1.08	.77	SFH31-NPPB-D07-SP-BK
	16	8.89	10.61	S9114-ND	1.35	1.23	.87	SFH31-NPPB-D08-SP-BK
	20	11.43	13.15	S9115-ND	1.62	1.47	1.04	SFH31-NPPB-D10-SP-BK
	26	15.24	16.96	S9116-ND	1.96	1.78	1.26	SFH31-NPPB-D13-SP-BK
	34	20.32	22.04	S9117-ND	2.44	2.21	1.57	SFH31-NPPB-D17-SP-BK
	40	24.13	25.85	S9118-ND	2.76	2.50	1.77	SFH31-NPPB-D20-SP-BK
	44	26.67	28.39	S9119-ND	3.05	2.76	1.96	SFH31-NPPB-D22-SP-BK
	50	30.48	32.20	S9120-ND	3.37	3.05	2.16	SFH31-NPPB-D25-SP-BK
1.27mm x 2.54mm								
Male Header, Straight Thru Hole								
5	10	5.08	14.38	S9121-ND	1.62	1.47	1.04	SBH41-NBPB-D05-ST-BK
	14	7.62	16.92	S9122-ND	1.70	1.54	1.09	SBH41-NBPB-D07-ST-BK
	16	8.89	18.19	S9123-ND	1.72	1.56	1.11	SBH41-NBPB-D08-ST-BK
	20	11.43	20.73	S9124-ND	1.80	1.64	1.16	SBH41-NBPB-D10-ST-BK
5	26	15.24	24.54	S9125-ND	1.86	1.68	1.19	SBH41-NBPB-D13-ST-BK
	34	20.32	29.62	S9126-ND	2.01	1.83	1.30	SBH41-NBPB-D17-ST-BK
	40	24.13	33.43	S9127-ND	2.25	2.04	1.45	SBH41-NBPB-D20-ST-BK
	50	30.48	39.78	S9128-ND	2.39	2.16	1.53	SBH41-NBPB-D25-ST-BK
	68	41.91	51.21	S9129-ND	2.49	2.26	1.60	SBH41-NBPB-D34-ST-BK
	80	49.53	58.83	S9130-ND	2.78	2.52	1.79	SBH41-NBPB-D40-ST-BK
Male Header, SMT								
6	10	5.08	14.38	S9131-ND	2.15	1.95	1.38	SBH41-NBPB-D05-SM-BK
	14	7.62	16.92	S9132-ND	2.44	2.21	1.57	SBH41-NBPB-D07-SM-BK
	16	8.89	18.19	S9133-ND	2.49	2.26	1.60	SBH41-NBPB-D08-SM-BK
	20	11.43	20.73	S9134-ND	2.60	2.36	1.67	SBH41-NBPB-D10-SM-BK
	26	15.24	24.54	S9135-ND	2.73	2.48	1.76	SBH41-NBPB-D13-SM-BK
	34	20.32	29.62	S9136-ND	3.07	2.79	1.98	SBH41-NBPB-D17-SM-BK
	40	24.13	33.43	S9137-ND	3.39	3.08	2.18	SBH41-NBPB-D20-SM-BK
	50	30.48	39.78	S9138-ND	3.58	3.24	2.30	SBH41-NBPB-D25-SM-BK
	68	41.91	51.21	S9139-ND	3.66	3.32	2.35	SBH41-NBPB-D34-SM-BK
	80	49.53	58.83	S9140-ND	3.71	3.36	2.38	SBH41-NBPB-D40-SM-BK
Male Header, SMT, Post								
7	10	5.08	14.38	S9141-ND	2.15	1.95	1.38	SBH41-NBPB-D05-SP-BK
	14	7.62	16.92	S9142-ND	2.44	2.21	1.57	SBH41-NBPB-D07-SP-BK
	16	8.89	18.19	S9143-ND	2.49	2.26	1.60	SBH41-NBPB-D08-SP-BK
	20	11.43	20.73	S9144-ND	2.60	2.36	1.67	SBH41-NBPB-D10-SP-BK
	26	15.24	24.54	S9145-ND	2.73	2.48	1.76	SBH41-NBPB-D13-SP-BK
	34	20.32	29.62	S9146-ND	3.07	2.79	1.98	SBH41-NBPB-D17-SP-BK
	40	24.13	33.43	S9147-ND	3.39	3.08	2.18	SBH41-NBPB-D20-SP-BK
	50	30.48	39.78	S9148-ND	3.58	3.24	2.30	SBH41-NBPB-D25-SP-BK
	68	41.91	51.21	S9149-ND	3.66	3.32	2.35	SBH41-NBPB-D34-SP-BK
	80	49.53	58.83	S9150-ND	3.71	3.36	2.38	SBH41-NBPB-D40-SP-BK
Cable Receptacle with Strain Relief								
8	10	5.08	8.35	S9151-ND	2.99	2.72	1.93	SFH413-PPPB-D05-ID-BK
	16	8.89	12.16	S9152-ND	3.15	2.86	2.03	SFH413-PPPB-D08-ID-BK
	20	11.43	14.70	S9153-ND	3.29	2.98	2.11	SFH413-PPPB-D10-ID-BK
	26	15.24	18.51	S9154-ND	3.52	3.20	2.27	SFH413-PPPB-D13-ID-BK
	34	20.32	23.59	S9155-ND	3.76	3.41	2.42	SFH413-PPPB-D17-ID-BK
	40	24.13	27.40	S9156-ND	3.92	3.56	2.52	SFH413-PPPB-D20-ID-BK
	50	30.48	33.75	S9157-ND	4.11	3.72	2.64	SFH413-PPPB-D25-ID-BK
	68	41.91	45.18	S9158-ND	4.64	4.20	2.98	SFH413-PPPB-D34-ID-BK
	80	49.53	52.80	S9159-ND	4.93	4.47	3.17	SFH413-PPPB-D40-ID-BK
Cable Receptacle								
8	10	5.08	8.35	S9160-ND	2.73	2.48	1.76	SFH41-PPPB-D05-ID-BK
	16	8.89	12.16	S9161-ND	2.89	2.62	1.86	SFH41-PPPB-D08-ID-BK
	20	11.43	14.70	S9162-ND	3.02	2.74	1.94	SFH41-PPPB-D10-ID-BK
	26	15.24	18.51	S9163-ND	3.26	2.96	2.10	SFH41-PPPB-D13-ID-BK
	34	20.32	23.59	S9164-ND	3.50	3.17	2.25	SFH41-PPPB-D17-ID-BK
	40	24.13	27.40	S9165-ND	3.66	3.32	2.35	SFH41-PPPB-D20-ID-BK
	50	30.48	33.75	S9166-ND	3.84	3.48	2.47	SFH41-PPPB-D25-ID-BK
	68	41.91	45.18	S9167-ND	4.37	3.96	2.81	SFH41-PPPB-D34-ID-BK
	80	49.53	52.80	S9168-ND	4.66	4.23	3.00	SFH41-PPPB-D40-ID-BK

2mm Connectors

SPECIFICATIONS: • **Current Rating**: 1A • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding**: 500VAC • **Operating Temperature:** -40°C ~ 105°C • **Contact Material**: Headers: Brass, Receptacles: Phosphor Bronze • **Insulator Material:** Polyester or Nylon, UL 94V-0 • **Contact Finish:** Selective Plating, Gold/Tin

Fig. 1

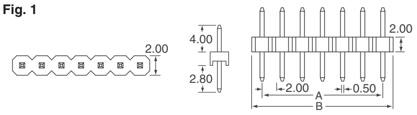

Fig. 2

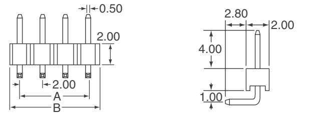

Fig. 3

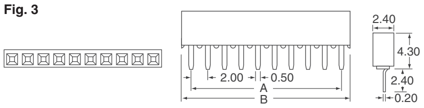

Fig. 4

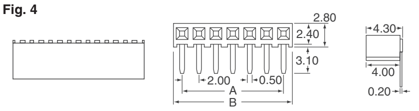

Fig. 5

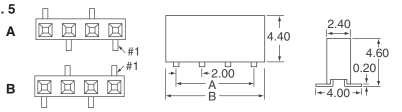

Fig. 6

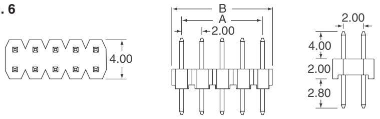

Fig. 7

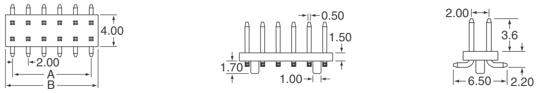

Fig. 8

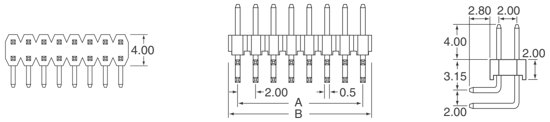

Fig. 9

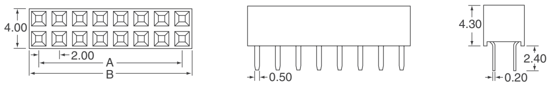

Fig. 10

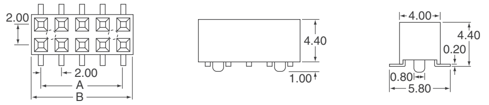

Fig. 11

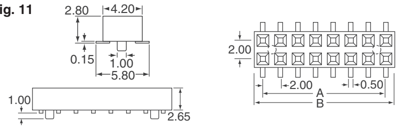

Fig. 12

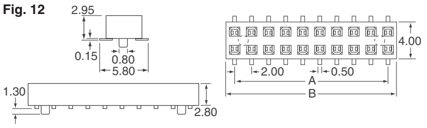

Fig. 13

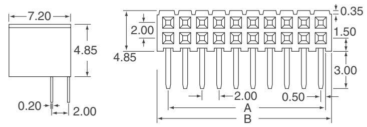

Fig. 14

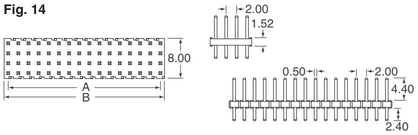

Fig. 15

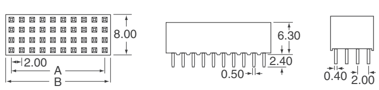

Fig. 16

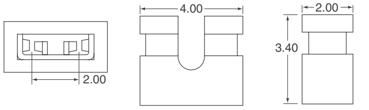

Single Row Headers, Straight — RoHS Compliant

Fig.	Circuits	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
1	2	2.00	4.00	S5800-02-ND	.39	.34	.29	PRPN021PAEN-RC
	3	4.00	6.00	S5800-03-ND	.41	.36	.31	PRPN031PAEN-RC
	4	6.00	8.00	S5800-04-ND	.43	.38	.32	PRPN041PAEN-RC
	5	8.00	10.00	S5800-05-ND	.45	.39	.33	PRPN051PAEN-RC
	6	10.00	12.00	S5800-06-ND	.47	.41	.35	PRPN061PAEN-RC
	7	12.00	14.00	S5800-07-ND	.49	.43	.36	PRPN071PAEN-RC
	8	14.00	16.00	S5800-08-ND	.51	.45	.38	PRPN081PAEN-RC
	9	16.00	18.00	S5800-09-ND	.53	.46	.39	PRPN091PAEN-RC
	10	18.00	20.00	S5800-10-ND	.55	.48	.41	PRPN101PAEN-RC
	11	20.00	22.00	S5800-11-ND	.57	.50	.42	PRPN111PAEN-RC
	12	22.00	24.00	S5800-12-ND	.59	.52	.44	PRPN121PAEN-RC
	13	24.00	26.00	S5800-13-ND	.61	.53	.45	PRPN131PAEN-RC
	14	26.00	28.00	S5800-14-ND	.63	.55	.47	PRPN141PAEN-RC
	15	28.00	30.00	S5800-15-ND	.65	.57	.48	PRPN151PAEN-RC
	16	30.00	32.00	S5800-16-ND	.67	.59	.50	PRPN161PAEN-RC
	17	32.00	34.00	S5800-17-ND	.69	.60	.51	PRPN171PAEN-RC
	18	34.00	36.00	S5800-18-ND	.71	.62	.53	PRPN181PAEN-RC
	19	36.00	38.00	S5800-19-ND	.73	.64	.54	PRPN191PAEN-RC
	20	38.00	40.00	S5800-20-ND	.75	.65	.55	PRPN201PAEN-RC
	21	40.00	42.00	S5800-21-ND	.77	.67	.57	PRPN211PAEN-RC
	22	42.00	44.00	S5800-22-ND	.79	.69	.58	PRPN221PAEN-RC
	23	44.00	46.00	S5800-23-ND	.81	.71	.60	PRPN231PAEN-RC
	24	46.00	48.00	S5800-24-ND	.83	.72	.61	PRPN241PAEN-RC
	25	48.00	50.00	S5800-25-ND	.85	.74	.63	PRPN251PAEN-RC
	26	50.00	52.00	S5800-26-ND	.87	.76	.64	PRPN261PAEN-RC
	27	52.00	54.00	S5800-27-ND	.89	.78	.66	PRPN271PAEN-RC
	28	54.00	56.00	S5800-28-ND	.91	.79	.67	PRPN281PAEN-RC
	29	56.00	58.00	S5800-29-ND	.93	.81	.69	PRPN291PAEN-RC
	30	58.00	60.00	S5800-30-ND	.95	.83	.70	PRPN301PAEN-RC
	31	60.00	62.00	S5800-31-ND	.97	.85	.72	PRPN311PAEN-RC
	32	62.00	64.00	S5800-32-ND	.99	.86	.73	PRPN321PAEN-RC
	33	64.00	66.00	S5800-33-ND	1.01	.88	.75	PRPN331PAEN-RC
	34	66.00	68.00	S5800-34-ND	1.03	.90	.76	PRPN341PAEN-RC
	35	68.00	70.00	S5800-35-ND	1.05	.91	.77	PRPN351PAEN-RC
	36	70.00	72.00	S5800-36-ND	1.07	.93	.79	PRPN361PAEN-RC
	37	72.00	74.00	S5800-37-ND	1.09	.95	.80	PRPN371PAEN-RC
	38	74.00	76.00	S5800-38-ND	1.11	.97	.82	PRPN381PAEN-RC
	39	76.00	78.00	S5800-39-ND	1.13	.98	.83	PRPN391PAEN-RC
	40	78.00	80.00	S5800-40-ND	1.20	1.04	.88	PRPN401PAEN-RC

Single Row Headers, Right Angle — RoHS Compliant

Fig.	Circuits	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
2	2	2.00	4.00	S5802-02-ND	.33	.29	.25	PRPN021PARN-RC
	3	4.00	6.00	S5802-03-ND	.36	.32	.27	PRPN031PARN-RC
	4	6.00	8.00	S5802-04-ND	.39	.34	.29	PRPN041PARN-RC
	5	8.00	10.00	S5802-05-ND	.42	.37	.31	PRPN051PARN-RC
	6	10.00	12.00	S5802-06-ND	.45	.39	.33	PRPN061PARN-RC
	7	12.00	14.00	S5802-07-ND	.48	.42	.36	PRPN071PARN-RC
	8	14.00	16.00	S5802-08-ND	.51	.45	.38	PRPN081PARN-RC
	9	16.00	18.00	S5802-09-ND	.54	.47	.40	PRPN091PARN-RC
	10	18.00	20.00	S5802-10-ND	.57	.50	.42	PRPN101PARN-RC
	11	20.00	22.00	S5802-11-ND	.60	.52	.44	PRPN111PARN-RC
	12	22.00	24.00	S5802-12-ND	.63	.55	.47	PRPN121PARN-RC
	13	24.00	26.00	S5802-13-ND	.66	.58	.49	PRPN131PARN-RC
	14	26.00	28.00	S5802-14-ND	.69	.60	.51	PRPN141PARN-RC
	15	28.00	30.00	S5802-15-ND	.72	.63	.53	PRPN151PARN-RC
	16	30.00	32.00	S5802-16-ND	.75	.65	.55	PRPN161PARN-RC
	17	32.00	34.00	S5802-17-ND	.78	.68	.58	PRPN171PARN-RC
	18	34.00	36.00	S5802-18-ND	.81	.71	.60	PRPN181PARN-RC
	19	36.00	38.00	S5802-19-ND	.84	.73	.62	PRPN191PARN-RC
	20	38.00	40.00	S5802-20-ND	.87	.76	.64	PRPN201PARN-RC
	21	40.00	42.00	S5802-21-ND	.90	.78	.66	PRPN211PARN-RC
	22	42.00	44.00	S5802-22-ND	.93	.81	.69	PRPN221PARN-RC
	23	44.00	46.00	S5802-23-ND	.96	.84	.71	PRPN231PARN-RC
	24	46.00	48.00	S5802-24-ND	.99	.86	.73	PRPN241PARN-RC
	25	48.00	50.00	S5802-25-ND	1.02	.89	.75	PRPN251PARN-RC
	26	50.00	52.00	S5802-26-ND	1.05	.91	.77	PRPN261PARN-RC
	27	52.00	54.00	S5802-27-ND	1.08	.94	.80	PRPN271PARN-RC
	28	54.00	56.00	S5802-28-ND	1.11	.97	.82	PRPN281PARN-RC
	29	56.00	58.00	S5802-29-ND	1.14	.99	.84	PRPN291PARN-RC
	30	58.00	60.00	S5802-30-ND	1.17	1.02	.86	PRPN301PARN-RC
	31	60.00	62.00	S5802-31-ND	1.20	1.04	.88	PRPN311PARN-RC
	32	62.00	64.00	S5802-32-ND	1.23	1.07	.91	PRPN321PARN-RC
	33	64.00	66.00	S5802-33-ND	1.26	1.10	.93	PRPN331PARN-RC
	34	66.00	68.00	S5802-34-ND	1.29	1.12	.95	PRPN341PARN-RC
	35	68.00	70.00	S5802-35-ND	1.32	1.15	.97	PRPN351PARN-RC
	36	70.00	72.00	S5802-36-ND	1.35	1.17	.99	PRPN361PARN-RC
	37	72.00	74.00	S5802-37-ND	1.38	1.20	1.02	PRPN371PARN-RC
	38	74.00	76.00	S5802-38-ND	1.41	1.23	1.04	PRPN381PARN-RC
	39	76.00	78.00	S5802-39-ND	1.44	1.25	1.06	PRPN391PARN-RC
	40	78.00	80.00	S5802-40-ND	2.28	1.98	1.68	PRPN401PARN-RC

(Continued)

SULLINS 2mm Connectors *(Cont.)*

Fig.	Circuits	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Single Row Receptacles, Straight — RoHS Compliant								
3	3	4.00	6.50	S5751-03-ND	.53	.44	.28	PPPN031BFCN-RC
	4	6.00	8.50	S5751-04-ND	.67	.56	.36	PPPN041BFCN-RC
	5	8.00	10.50	S5751-05-ND	.77	.64	.41	PPPN051BFCN-RC
	6	10.00	12.50	S5751-06-ND	.88	.73	.47	PPPN061BFCN-RC
	7	12.00	14.50	S5751-07-ND	.91	.76	.49	PPPN071BFCN-RC
	8	14.00	16.50	S5751-08-ND	.98	.82	.52	PPPN081BFCN-RC
	9	16.00	18.50	S5751-09-ND	1.02	.85	.54	PPPN091BFCN-RC
	10	18.00	20.50	S5751-10-ND	1.05	.87	.56	PPPN101BFCN-RC
	11	20.00	22.50	S5751-11-ND	1.09	.90	.58	PPPN111BFCN-RC
	12	22.00	24.50	S5751-12-ND	1.19	.99	.63	PPPN121BFCN-RC
	15	28.00	30.50	S5751-15-ND	1.47	1.22	.78	PPPN151BFCN-RC
	18	34.00	36.50	S5751-18-ND	1.79	1.48	.95	PPPN181BFCN-RC
	22	42.00	44.50	S5751-22-ND	2.21	1.83	1.17	PPPN221BFCN-RC
	25	48.00	50.50	S5751-25-ND	2.42	2.01	1.28	PPPN251BFCN-RC
	30	58.00	60.50	S5751-30-ND	2.87	2.38	1.52	PPPN301BFCN-RC
	36	70.00	72.50	S5751-36-ND	3.47	2.88	1.84	PPPN361BFCN-RC
	40	78.00	80.50	S5751-40-ND	3.85	3.19	2.04	PPPN401BFCN-RC
Single Row Receptacles, Right Angle — RoHS Compliant								
4	3	4.00	6.50	S5752-03-ND	.88	.73	.47	PPPN031FGGN-RC
	4	6.00	8.50	S5752-04-ND	1.12	.93	.60	PPPN041FGGN-RC
	5	8.00	10.50	S5752-05-ND	1.37	1.14	.73	PPPN051FGGN-RC
	6	10.00	12.50	S5752-06-ND	1.58	1.31	.84	PPPN061FGGN-RC
	7	12.00	14.50	S5752-07-ND	1.72	1.43	.91	PPPN071FGGN-RC
	8	14.00	16.50	S5752-08-ND	1.89	1.57	1.00	PPPN081FGGN-RC
	9	16.00	18.50	S5752-09-ND	2.17	1.80	1.15	PPPN091FGGN-RC
	10	18.00	20.50	S5752-10-ND	2.24	1.86	1.19	PPPN101FGGN-RC
	12	22.00	24.50	S5752-12-ND	2.56	2.12	1.36	PPPN121FGGN-RC
	15	28.00	30.50	S5752-15-ND	3.15	2.61	1.67	PPPN151FGGN-RC
	17	32.00	34.50	S5752-17-ND	3.71	3.08	1.97	PPPN171FGGN-RC
Single Row Receptacles, SMT Contacts (Pin 1 on Left Hand Side)								
5A	25	48.00	50.50	S2101-25-ND	2.80	2.32	1.48	PPPN251BFLC
Single Row Receptacles, SMT Contacts (Pin 1 on Left Hand Side) — RoHS Compliant								
5A	3	4.00	6.50	S5901-03-ND	.63	.53	.34	NPPN031BFLC-RC
	4	6.00	8.50	S5901-04-ND	.81	.67	.43	NPPN041BFLC-RC
	5	8.00	10.50	S5901-05-ND	.95	.79	.50	NPPN051BFLC-RC
	6	10.00	12.50	S5901-06-ND	.98	.82	.52	NPPN061BFLC-RC
	7	12.00	14.50	S5901-07-ND	1.12	.93	.60	NPPN071BFLC-RC
	8	14.00	16.50	S5901-08-ND	1.26	1.05	.67	NPPN081BFLC-RC
	9	16.00	18.50	S5901-09-ND	1.37	1.14	.73	NPPN091BFLC-RC
	10	18.00	20.50	S5901-10-ND	1.44	1.19	.76	NPPN101BFLC-RC
	12	22.00	24.50	S5901-12-ND	1.58	1.31	.84	NPPN121BFLC-RC
	15	28.00	30.50	S5901-15-ND	1.75	1.45	.93	NPPN151BFLC-RC
	18	34.00	36.50	S5901-18-ND	2.10	1.74	1.11	NPPN181BFLC-RC
	20	38.00	40.50	S5901-20-ND	2.35	1.95	1.24	NPPN201BFLC-RC
	22	42.00	44.50	S5901-22-ND	2.59	2.15	1.37	NPPN221BFLC-RC
	25	48.00	50.50	S5901-25-ND	2.91	2.41	1.54	NPPN251BFLC-RC
Single Row Receptacles, SMT Contacts (Pin 1 on Right Hand Side)								
5B	7	12.00	14.50	S2102-07-ND	.91	.76	.49	PPPN071BFLD
	13	24.00	26.50	S2102-13-ND	1.47	1.22	.78	PPPN131BFLD
	15	28.00	30.50	S2102-15-ND	1.68	1.40	.89	PPPN151BFLD
	25	48.00	50.50	S2102-25-ND	2.80	2.32	1.48	PPPN251BFLD
Single Row Receptacles, SMT Contacts (Pin 1 on Right Hand Side) — RoHS Compliant								
5B	3	4.00	6.50	S5902-03-ND	.63	.53	.34	NPPN031BFLD-RC
	4	6.00	8.50	S5902-04-ND	.81	.67	.43	NPPN041BFLD-RC
	5	8.00	10.50	S5902-05-ND	.95	.79	.50	NPPN051BFLD-RC
	6	10.00	12.50	S5902-06-ND	.98	.82	.52	NPPN061BFLD-RC
	7	12.00	14.50	S5902-07-ND	1.12	.93	.60	NPPN071BFLD-RC
	8	14.00	16.50	S5902-08-ND	1.26	1.05	.67	NPPN081BFLD-RC
	9	16.00	18.50	S5902-09-ND	1.37	1.14	.73	NPPN091BFLD-RC
	10	18.00	20.50	S5902-10-ND	1.44	1.19	.76	NPPN101BFLD-RC
	12	22.00	24.50	S5902-12-ND	1.58	1.31	.84	NPPN121BFLD-RC
	13	24.00	26.50	S5902-13-ND	1.65	1.37	.87	NPPN131BFLD-RC
	15	28.00	30.50	S5902-15-ND	1.75	1.45	.93	NPPN151BFLD-RC
	18	34.00	36.50	S5902-18-ND	2.10	1.74	1.11	NPPN181BFLD-RC
	20	38.00	40.50	S5902-20-ND	2.35	1.95	1.24	NPPN201BFLD-RC
	22	42.00	44.50	S5902-22-ND	2.59	2.15	1.37	NPPN221BFLD-RC
	25	48.00	50.50	S5902-25-ND	2.91	2.41	1.54	NPPN251BFLD-RC
Dual Row Headers, Straight — RoHS Compliant								
6	4	2.00	4.00	S5801-02-ND	.75	.65	.55	PRPN022PAEN-RC
	6	4.00	6.00	S5801-03-ND	.79	.69	.58	PRPN032PAEN-RC
	8	6.00	8.00	S5801-04-ND	.83	.72	.61	PRPN042PAEN-RC
	10	8.00	10.00	S5801-05-ND	.87	.76	.64	PRPN052PAEN-RC
	12	10.00	12.00	S5801-06-ND	.91	.79	.67	PRPN062PAEN-RC
	14	12.00	14.00	S5801-07-ND	.95	.83	.70	PRPN072PAEN-RC
	16	14.00	16.00	S5801-08-ND	.99	.86	.73	PRPN082PAEN-RC
	18	16.00	18.00	S5801-09-ND	1.03	.90	.76	PRPN092PAEN-RC
	20	18.00	20.00	S5801-10-ND	1.07	.93	.79	PRPN102PAEN-RC
	22	20.00	22.00	S5801-11-ND	1.11	.97	.82	PRPN112PAEN-RC
	24	22.00	24.00	S5801-12-ND	1.15	1.00	.85	PRPN122PAEN-RC
	26	24.00	26.00	S5801-13-ND	1.19	1.04	.88	PRPN132PAEN-RC
	28	26.00	28.00	S5801-14-ND	1.23	1.07	.91	PRPN142PAEN-RC
	30	28.00	30.00	S5801-15-ND	1.27	1.11	.94	PRPN152PAEN-RC
	32	30.00	32.00	S5801-16-ND	1.31	1.14	.97	PRPN162PAEN-RC
6	36	34.00	36.00	S5801-18-ND	1.39	1.21	1.02	PRPN182PAEN-RC
	38	36.00	38.00	S5801-19-ND	1.43	1.24	1.05	PRPN192PAEN-RC
	40	38.00	40.00	S5801-20-ND	1.47	1.28	1.08	PRPN202PAEN-RC
	42	40.00	42.00	S5801-21-ND	1.51	1.31	1.11	PRPN212PAEN-RC
	44	42.00	44.00	S5801-22-ND	1.55	1.35	1.14	PRPN222PAEN-RC
	46	44.00	46.00	S5801-23-ND	1.59	1.38	1.17	PRPN232PAEN-RC
	48	46.00	48.00	S5801-24-ND	1.63	1.42	1.20	PRPN242PAEN-RC
	50	48.00	50.00	S5801-25-ND	1.67	1.45	1.23	PRPN252PAEN-RC
	60	58.00	60.00	S5801-30-ND	1.87	1.63	1.38	PRPN302PAEN-RC
	72	70.00	72.00	S5801-36-ND	2.11	1.83	1.55	PRPN362PAEN-RC
	80	78.00	80.00	S5801-40-ND	2.43	2.11	1.79	PRPN402PAEN-RC
Dual Row Headers, SMT, with Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6008-02-ND	.42	.35	.23	NRPN022MAMP-RC
	6	4.00	6.00	S6008-03-ND	.63	.53	.34	NRPN032MAMP-RC
	8	6.00	8.00	S6008-04-ND	.88	.73	.47	NRPN042MAMP-RC
	10	8.00	10.00	S6008-05-ND	1.09	.90	.58	NRPN052MAMP-RC
	12	10.00	12.00	S6008-06-ND	1.30	1.08	.69	NRPN062MAMP-RC
	14	12.00	14.00	S6008-07-ND	1.51	1.25	.80	NRPN072MAMP-RC
	16	14.00	16.00	S6008-08-ND	1.75	1.45	.93	NRPN082MAMP-RC
	18	16.00	18.00	S6008-09-ND	1.96	1.63	1.04	NRPN092MAMP-RC
	20	18.00	20.00	S6008-10-ND	2.17	1.80	1.15	NRPN102MAMP-RC
	24	22.00	24.00	S6008-12-ND	2.63	2.18	1.39	NRPN122MAMP-RC
	30	28.00	30.00	S6008-15-ND	3.29	2.73	1.74	NRPN152MAMP-RC
	36	34.00	36.00	S6008-18-ND	3.92	3.25	2.08	NRPN182MAMP-RC
	44	42.00	44.00	S6008-22-ND	4.80	3.98	2.54	NRPN222MAMP-RC
	50	48.00	50.00	S6008-25-ND	5.46	4.53	2.89	NRPN252MAMP-RC
Dual Row Headers, SMT, without Locating Peg								
7	18	16.00	18.00	S2209-09-ND	1.86	1.54	.99	PRPN092MAMS
	28	26.00	28.00	S2209-14-ND	2.73	2.27	1.45	PRPN142MAMS
	32	30.00	32.00	S2209-16-ND	3.12	2.59	1.65	PRPN162MAMS
	36	34.00	36.00	S2209-18-ND	3.50	2.90	1.85	PRPN182MAMS
	38	36.00	38.00	S2209-19-ND	3.71	3.08	1.97	PRPN192MAMS
	42	40.00	42.00	S2209-21-ND	4.10	3.40	2.17	PRPN212MAMS
	48	46.00	48.00	S2209-24-ND	4.69	3.89	2.48	PRPN242MAMS
Dual Row Headers, SMT, without Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6009-02-ND	.42	.35	.23	NRPN022MAMS-RC
	6	4.00	6.00	S6009-03-ND	.63	.53	.34	NRPN032MAMS-RC
	8	6.00	8.00	S6009-04-ND	.88	.73	.47	NRPN042MAMS-RC
	10	8.00	10.00	S6009-05-ND	1.09	.90	.58	NRPN052MAMS-RC
	12	10.00	12.00	S6009-06-ND	1.30	1.08	.69	NRPN062MAMS-RC
	14	12.00	14.00	S6009-07-ND	1.40	1.16	.74	NRPN072MAMS-RC
	16	14.00	16.00	S6009-08-ND	1.75	1.45	.93	NRPN082MAMS-RC
	18	16.00	18.00	S6009-09-ND	1.96	1.63	1.04	NRPN092MAMS-RC
	20	18.00	20.00	S6009-10-ND	2.17	1.80	1.15	NRPN102MAMS-RC
	22	20.00	22.00	S6009-11-ND	2.38	1.98	1.26	NRPN112MAMS-RC
	24	22.00	24.00	S6009-12-ND	2.63	2.18	1.39	NRPN122MAMS-RC
	26	24.00	26.00	S6009-13-ND	2.84	2.35	1.50	NRPN132MAMS-RC
	28	26.00	28.00	S6009-14-ND	3.05	2.53	1.61	NRPN142MAMS-RC
	30	28.00	30.00	S6009-15-ND	3.29	2.73	1.74	NRPN152MAMS-RC
	32	30.00	32.00	S6009-16-ND	3.50	2.90	1.85	NRPN162MAMS-RC
	34	32.00	34.00	S6009-17-ND	3.71	3.08	1.97	NRPN172MAMS-RC
	36	34.00	36.00	S6009-18-ND	3.92	3.25	2.08	NRPN182MAMS-RC
	38	36.00	38.00	S6009-19-ND	4.17	3.46	2.21	NRPN192MAMS-RC
	40	38.00	40.00	S6009-20-ND	4.38	3.63	2.32	NRPN202MAMS-RC
	42	40.00	42.00	S6009-21-ND	4.59	3.80	2.43	NRPN212MAMS-RC
	44	42.00	44.00	S6009-22-ND	4.80	3.98	2.54	NRPN222MAMS-RC
	46	44.00	46.00	S6009-23-ND	5.04	4.18	2.67	NRPN232MAMS-RC
	48	46.00	48.00	S6009-24-ND	5.25	4.35	2.78	NRPN242MAMS-RC
	50	48.00	50.00	S6009-25-ND	5.46	4.53	2.89	NRPN252MAMS-RC
Dual Row Headers, Right Angle — RoHS Compliant								
8	4	2.00	4.00	S5803-02-ND	1.15	1.00	.85	PRPN022PARN-RC
	6	4.00	6.00	S5803-03-ND	1.21	1.05	.89	PRPN032PARN-RC
	8	6.00	8.00	S5803-04-ND	1.27	1.11	.94	PRPN042PARN-RC
	10	8.00	10.00	S5803-05-ND	1.33	1.16	.98	PRPN052PARN-RC
	12	10.00	12.00	S5803-06-ND	1.39	1.21	1.02	PRPN062PARN-RC
	14	12.00	14.00	S5803-07-ND	1.45	1.26	1.07	PRPN072PARN-RC
	16	14.00	16.00	S5803-08-ND	1.51	1.31	1.11	PRPN082PARN-RC
	18	16.00	18.00	S5803-09-ND	1.57	1.37	1.16	PRPN092PARN-RC
	20	18.00	20.00	S5803-10-ND	1.63	1.42	1.20	PRPN102PARN-RC
	22	20.00	22.00	S5803-11-ND	1.69	1.47	1.24	PRPN112PARN-RC
	24	22.00	24.00	S5803-12-ND	1.75	1.52	1.29	PRPN122PARN-RC
	26	24.00	26.00	S5803-13-ND	1.81	1.57	1.33	PRPN132PARN-RC
	28	26.00	28.00	S5803-14-ND	1.87	1.63	1.38	PRPN142PARN-RC
	30	28.00	30.00	S5803-15-ND	1.93	1.68	1.42	PRPN152PARN-RC
	32	30.00	32.00	S5803-16-ND	1.99	1.73	1.46	PRPN162PARN-RC
	34	32.00	34.00	S5803-17-ND	2.05	1.78	1.51	PRPN172PARN-RC
	36	34.00	36.00	S5803-18-ND	2.11	1.83	1.55	PRPN182PARN-RC
	38	36.00	38.00	S5803-19-ND	2.17	1.89	1.60	PRPN192PARN-RC
	40	38.00	40.00	S5803-20-ND	2.23	1.94	1.64	PRPN202PARN-RC
	42	40.00	42.00	S5803-21-ND	2.29	1.99	1.68	PRPN212PARN-RC
	44	42.00	44.00	S5803-22-ND	2.35	2.04	1.73	PRPN222PARN-RC
	46	44.00	46.00	S5803-23-ND	2.41	2.09	1.77	PRPN232PARN-RC
	48	46.00	48. 00	S5803-24-ND	2.47	2.15	1.82	PRPN242PARN-RC

(Continued)

2mm Connectors *(Cont.)*

Fig.	Circuits	Dimensions - mm		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
8	50	48.00	50.00	S5803-25-ND	2.53	2.20	1.86	PRPN252PARN-RC
	60	58.00	60.00	S5803-30-ND	2.83	2.46	2.08	PRPN302PARN-RC
	80	78.00	80.00	S5803-40-ND	4.56	3.96	3.35	PRPN402PARN-RC
Dual Row Receptacles, Straight								
9	12	10.00	12.50	S2201-06-ND	1.26	1.05	.67	PPPN062AFCN
Dual Row Receptacles, Straight — RoHS Compliant								
9	4	2.00	4.50	S5750-02-ND	.77	.64	.41	PPPN022AFCN-RC
	6	4.00	6.50	S5750-03-ND	.84	.70	.45	PPPN032AFCN-RC
	8	6.00	8.50	S5750-04-ND	1.09	.90	.58	PPPN042AFCN-RC
	10	8.00	10.50	S5750-05-ND	1.26	1.05	.67	PPPN052AFCN-RC
	12	10.00	12.50	S5750-06-ND	1.40	1.16	.74	PPPN062AFCN-RC
	14	12.00	14.50	S5750-07-ND	1.51	1.25	.80	PPPN072AFCN-RC
	16	14.00	16.50	S5750-08-ND	1.75	1.45	.93	PPPN082AFCN-RC
	18	16.00	18.50	S5750-09-ND	1.79	1.48	.95	PPPN092AFCN-RC
	20	18.00	20.50	S5750-10-ND	1.82	1.51	.97	PPPN102AFCN-RC
	22	20.00	22.50	S5750-11-ND	1.89	1.57	1.00	PPPN112AFCN-RC
	24	22.00	24.50	S5750-12-ND	1.93	1.60	1.02	PPPN122AFCN-RC
	26	24.00	26.50	S5750-13-ND	2.00	1.66	1.06	PPPN132AFCN-RC
	30	28.00	30.50	S5750-15-ND	2.28	1.89	1.21	PPPN152AFCN-RC
	34	32.00	34.50	S5750-17-ND	2.59	2.15	1.37	PPPN172AFCN-RC
	40	38.00	40.50	S5750-20-ND	3.05	2.53	1.61	PPPN202AFCN-RC
	44	42.00	44.50	S5750-22-ND	3.19	2.64	1.69	PPPN222AFCN-RC
	50	48.00	50.50	S5750-25-ND	3.64	3.02	1.93	PPPN252AFCN-RC
	60	58.00	60.50	S5750-30-ND	4.34	3.60	2.30	PPPN302AFCN-RC
	80	78.00	80.50	S5750-40-ND	5.67	4.70	3.00	PPPN402AFCN-RC
Dual Row Receptacles, SMT, without Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6010-02-ND	.95	.79	.50	NPPN022FFKS-RC
	6	4.00	6.00	S6010-03-ND	.98	.82	.52	NPPN032FFKS-RC
	8	6.00	8.00	S6010-04-ND	1.12	.93	.60	NPPN042FFKS-RC
	10	8.00	10.00	S6010-05-ND	1.26	1.05	.67	NPPN052FFKS-RC
	12	10.00	12.00	S6010-06-ND	1.51	1.25	.80	NPPN062FFKS-RC
	14	12.00	14.00	S6010-07-ND	1.75	1.45	.93	NPPN072FFKS-RC
	16	14.00	16.00	S6010-08-ND	1.89	1.57	1.00	NPPN082FFKS-RC
	18	16.00	18.00	S6010-09-ND	2.14	1.77	1.13	NPPN092FFKS-RC
	20	18.00	20.00	S6010-10-ND	2.38	1.98	1.26	NPPN102FFKS-RC
	24	22.00	24.00	S6010-12-ND	2.66	2.21	1.41	NPPN122FFKS-RC
	26	24.00	26.00	S6010-13-ND	2.87	2.38	1.52	NPPN132FFKS-RC
	30	28.00	30.00	S6010-15-ND	3.33	2.76	1.76	NPPN152FFKS-RC
	40	38.00	40.00	S6010-20-ND	4.27	3.54	2.26	NPPN202FFKS-RC
	44	42.00	44.00	S6010-22-ND	4.52	3.75	2.39	NPPN222FFKS-RC
	50	48.00	50.00	S6010-25-ND	5.15	4.27	2.72	NPPN252FFKS-RC
	60	58.00	60.00	S6010-30-ND	5.95	4.93	3.15	NPPN302FFKS-RC
Dual Row Receptacles, SMT, with Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6011-02-ND	.95	.79	.50	NPPN022FFKP-RC
	6	4.00	6.00	S6011-03-ND	.98	.82	.52	NPPN032FFKP-RC
	8	6.00	8.00	S6011-04-ND	1.12	.93	.60	NPPN042FFKP-RC
	10	8.00	10.00	S6011-05-ND	1.26	1.05	.67	NPPN052FFKP-RC
	12	10.00	12.00	S6011-06-ND	1.51	1.25	.80	NPPN062FFKP-RC
	14	12.00	14.00	S6011-07-ND	1.75	1.45	.93	NPPN072FFKP-RC
	16	14.00	16.00	S6011-08-ND	1.89	1.57	1.00	NPPN082FFKP-RC
	18	16.00	18.00	S6011-09-ND	2.14	1.77	1.13	NPPN092FFKP-RC
	24	22.00	24.00	S6011-12-ND	2.66	2.21	1.41	NPPN122FFKP-RC
	30	28.00	30.00	S6011-15-ND	3.33	2.76	1.76	NPPN152FFKP-RC
	44	42.00	44.00	S6011-22-ND	4.52	3.75	2.39	NPPN222FFKP-RC
	50	48.00	50.00	S6011-25-ND	5.15	4.27	2.72	NPPN252FFKP-RC
	60	58.00	60.00	S6011-30-ND	5.95	4.93	3.15	NPPN302FFKP-RC
Dual Row Receptacles (Bottom Entry), SMT, with Locating Peg								
11	18	16.00	18.00	S2205-09-ND	2.56	2.12	1.36	PPPN092GHNP
	56	54.00	56.00	S2205-28-ND	7.11	5.89	3.76	PPPN282GHNP
	60	58.00	60.00	S2205-30-ND	7.63	6.33	4.04	PPPN302GHNP
Dual Row Receptacles (Top Entry Low Profile), SMT, with Locating Peg								
12	18	16.00	18.00	S2206-09-ND	2.56	2.12	1.36	PPPN092GFNP
	56	54.00	56.00	S2206-28-ND	7.11	5.89	3.76	PPPN282GFNP
	80	78.00	80.00	S2206-40-ND	10.15	8.41	5.37	PPPN402GFNP
Dual Row Receptacles (Top Entry Low Profile), SMT, with Locating Peg — RoHS Compliant								
12	10	8.00	10.00	S6013-05-ND	1.54	1.28	.82	NPPN052GFNP-RC
	12	10.00	12.00	S6013-06-ND	1.54	1.28	.82	NPPN062GFNP-RC
	14	12.00	14.00	S6013-07-ND	1.72	1.43	.91	NPPN072GFNP-RC
	16	14.00	16.00	S6013-08-ND	1.93	1.60	1.02	NPPN082GFNP-RC
	18	16.00	18.00	S6013-09-ND	2.10	1.74	1.11	NPPN092GFNP-RC
	20	18.00	20.00	S6013-10-ND	2.21	1.83	1.17	NPPN102GFNP-RC
	24	22.00	24.00	S6013-12-ND	2.52	2.09	1.34	NPPN122GFNP-RC
	30	28.00	30.00	S6013-15-ND	3.15	2.61	1.67	NPPN152GFNP-RC
	36	34.00	36.00	S6013-18-ND	3.64	3.02	1.93	NPPN182GFNP-RC
	44	42.00	44.00	S6013-22-ND	4.45	3.69	2.35	NPPN222GFNP-RC
	56	54.00	56.00	S6013-28-ND	5.67	4.70	3.00	NPPN282GFNP-RC
	60	58.00	60.00	S6013-30-ND	6.09	5.05	3.22	NPPN302GFNP-RC
	70	68.00	70.00	S6013-35-ND	6.83	5.66	3.61	NPPN352GFNP-RC
	80	78.00	80.00	S6013-40-ND	7.81	6.47	4.13	NPPN402GFNP-RC
Dual Row Receptacles (Top Entry Low Profile), SMT, without Locating Peg								
12	18	16.00	18.00	S2207-09-ND	2.56	2.12	1.36	PPPN092GFNS
	30	28.00	30.00	S2207-15-ND	3.89	3.22	2.06	PPPN152GFNS
	44	42.00	44.00	S2207-22-ND	5.71	4.73	3.02	PPPN222GFNS
	56	54.00	56.00	S2207-28-ND	7.11	5.89	3.76	PPPN282GFNS
	60	58.00	60.00	S2207-30-ND	7.63	6.33	4.04	PPPN302GFNS

Fig.	Circuits	Dimensions - mm		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
Dual Row Receptacles (Top Entry Low Profile), SMT, without Locating Peg RoHS Compliant								
12	8	6.00	8.00	S6014-04-ND	1.26	1.05	.67	NPPN042GFNS-RC
	10	8.00	10.00	S6014-05-ND	1.54	1.28	.82	NPPN052GFNS-RC
	12	10.00	12.00	S6014-06-ND	1.54	1.28	.82	NPPN062GFNS-RC
	14	12.00	14.00	S6014-07-ND	1.72	1.43	.91	NPPN072GFNS-RC
	16	14.00	16.00	S6014-08-ND	1.93	1.60	1.02	NPPN082GFNS-RC
	18	16.00	18.00	S6014-09-ND	2.10	1.74	1.11	NPPN092GFNS-RC
	20	18.00	20.00	S6014-10-ND	2.21	1.83	1.17	NPPN102GFNS-RC
	24	22.00	24.00	S6014-12-ND	2.52	2.09	1.34	NPPN122GFNS-RC
	30	28.00	30.00	S6014-15-ND	3.15	2.61	1.67	NPPN152GFNS-RC
	36	34.00	36.00	S6014-18-ND	3.64	3.02	1.93	NPPN182GFNS-RC
	44	42.00	44.00	S6014-22-ND	4.45	3.69	2.35	NPPN222GFNS-RC
	56	54.00	56.00	S6014-28-ND	5.67	4.70	3.00	NPPN282GFNS-RC
	60	58.00	60.00	S6014-30-ND	6.09	5.05	3.22	NPPN302GFNS-RC
	80	78.00	80.00	S6014-40-ND	7.81	6.47	4.13	NPPN402GFNS-RC
Dual Row Receptacles, Right Angle								
13	22	20.00	22.50	S2204-11-ND	1.79	1.48	.95	PPPN112FJFN
	26	24.00	26.50	S2204-13-ND	2.10	1.74	1.11	PPPN132FJFN
	28	26.00	28.50	S2204-14-ND	2.28	1.89	1.21	PPPN142FJFN
	34	32.00	34.50	S2204-17-ND	2.56	2.12	1.36	PPPN172FJFN
	38	36.00	38.50	S2204-19-ND	2.84	2.35	1.50	PPPN192FJFN
Dual Row Receptacles, Right Angle — RoHS Compliant								
13	6	4.00	6.50	S5753-03-ND	1.37	1.14	.73	PPPN032FJFN-RC
	8	6.00	8.50	S5753-04-ND	1.75	1.45	.93	PPPN042FJFN-RC
	10	8.00	10.50	S5753-05-ND	2.00	1.66	1.06	PPPN052FJFN-RC
	12	10.00	12.50	S5753-06-ND	2.38	1.98	1.26	PPPN062FJFN-RC
	14	12.00	14.50	S5753-07-ND	2.38	1.98	1.26	PPPN072FJFN-RC
	16	14.00	16.50	S5753-08-ND	2.59	2.15	1.37	PPPN082FJFN-RC
	18	16.00	18.50	S5753-09-ND	2.73	2.27	1.45	PPPN092FJFN-RC
	20	18.00	20.50	S5753-10-ND	3.08	2.56	1.63	PPPN102FJFN-RC
	22	20.00	22.50	S5753-11-ND	3.36	2.79	1.78	PPPN112FJFN-RC
	24	22.00	24.50	S5753-12-ND	3.50	2.90	1.85	PPPN122FJFN-RC
	26	24.00	26.50	S5753-13-ND	3.89	3.22	2.06	PPPN132FJFN-RC
	28	26.00	28.50	S5753-14-ND	4.17	3.46	2.21	PPPN142FJFN-RC
	30	28.00	30.50	S5753-15-ND	4.24	3.51	2.24	PPPN152FJFN-RC
	32	30.00	32.50	S5753-16-ND	4.69	3.89	2.48	PPPN162FJFN-RC
	34	32.00	34.50	S5753-17-ND	4.94	4.09	2.61	PPPN172FJFN-RC
	36	34.00	36.50	S5753-18-ND	5.25	4.35	2.78	PPPN182FJFN-RC
	38	36.00	38.50	S5753-19-ND	5.57	4.62	2.95	PPPN192FJFN-RC
	40	38.00	40.50	S5753-20-ND	5.85	4.85	3.09	PPPN202FJFN-RC
	42	40.00	42.50	S5753-21-ND	6.44	5.34	3.41	PPPN212FJFN-RC
	44	42.00	44.50	S5753-22-ND	6.76	5.60	3.58	PPPN222FJFN-RC
	46	44.00	46.50	S5753-23-ND	6.97	5.78	3.69	PPPN232FJFN-RC
	48	46.00	48.50	S5753-24-ND	7.00	5.80	3.70	PPPN242FJFN-RC
	50	48.00	50.50	S5753-25-ND	7.49	6.21	3.96	PPPN252FJFN-RC
	60	58.00	60.50	S5753-30-ND	9.00	7.46	4.76	PPPN302FJFN-RC
Quad Row Headers, Straight — RoHS Compliant								
14	24	10.00	12.00	S5804-06-ND	8.14	7.06	5.97	PRPN064RCCN-RC
	40	18.00	20.00	S5804-10-ND	9.26	8.03	6.80	PRPN104RCCN-RC
	48	22.00	24.00	S5804-12-ND	9.82	8.52	7.21	PRPN124RCCN-RC
	60	28.00	30.00	S5804-15-ND	10.66	9.24	7.82	PRPN154RCCN-RC
	72	34.00	36.00	S5804-18-ND	11.50	9.97	8.44	PRPN184RCCN-RC
	84	40.00	42.00	S5804-21-ND	12.34	10.70	9.05	PRPN214RCCN-RC
	96	46.00	48.00	S5804-24-ND	13.18	11.43	9.67	PRPN244RCCN-RC
	120	58.00	60.00	S5804-30-ND	7.74	6.71	5.68	PRPN304RCCN-RC
Quad Row Receptacles, Straight								
15	48	22.00	24.40	S2402-12-ND	5.46	4.53	2.89	PPRN124EFCN
	60	28.00	30.40	S2402-15-ND	6.83	5.66	3.61	PPRN154EFCN
	72	34.00	36.40	S2402-18-ND	8.19	6.79	4.33	PPRN184EFCN
	84	40.00	42.40	S2402-21-ND	9.56	7.92	5.06	PPRN214EFCN
	96	46.00	48.40	S2402-24-ND	10.92	9.05	5.78	PPRN244EFCN
Quad Row Receptacles, Straight — RoHS Compliant								
15	24	10.00	12.40	S6015-06-ND	5.29	4.38	2.80	PPRN064EFCN-RC
	40	18.00	20.40	S6015-10-ND	8.82	7.31	4.67	PPRN104EFCN-RC
	48	22.00	24.40	S6015-12-ND	10.50	8.70	5.55	PPRN124EFCN-RC
	60	28.00	30.40	S6015-15-ND	13.13	10.88	6.94	PPRN154EFCN-RC
	72	34.00	36.40	S6015-18-ND	14.46	11.98	7.65	PPRN184EFCN-RC
	84	40.00	42.40	S6015-21-ND	15.19	12.59	8.03	PPRN214EFCN-RC
	96	46.00	48.40	S6015-24-ND	15.79	13.08	8.35	PPRN244EFCN-RC
	120	58.00	60.40	S6015-30-ND	19.50	16.16	10.31	PPRN304EFCN-RC
Shunts, Open Top — RoHS Compliant								
16	2	Tin		S3405-ND	—	.27	.22	STN02SYBN-RC
	2	Gold		S3404-ND	—	.27	.22	SPN02SYBN-RC

2mm Shrouded Headers and Receptacles

Specifications:

Headers: • Current Rating: 2A **• Insulation Resistance:** 1,000MΩ **• Operating Temperature:** -40°C ~ 85°C **• Contact Material:** Brass **• Insulator Material:** Nylon 6T **• Plating:** Gold Flash Overall **• Processing Temperature:** 230°C for 60 Seconds Max. (260°C, 10 Sec.) **• UL Flammability Rating:** 94V-0 **• Voltage Rating:** 20mΩ Max. **• Voltage Drop:** 500VAC

Receptacles: • Current Rating: 1A **• Insulation Resistance:** 1,000 MΩ **• Operating Temperature:** -45°C ~ 85°C **• Contact Material:** Phosphor Bronze **• Insulator Material:** PBT 30% Glass Fiber **• Plating:** Gold Flash Overall **• UL Flammability Rating:** 94V-0 **• Dielectric Withstanding:** 500VAC

Fig. 1

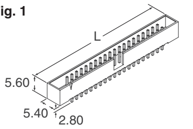

Fig. 2

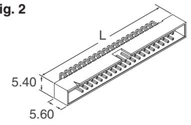

Fig. 3

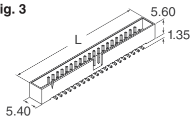

Fig. 4

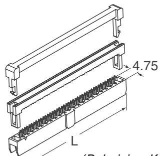

(Polarizing Key Shown)

Fig. 5

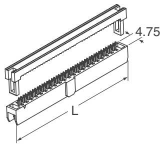

(Polarizing Key Shown)

No. of Circuits	Dim. L (mm)	Digi-Key Part No.	Price Each			Sullins Part No.
			1	25	100	
Fig. 1 — Dual Row Headers, Straight						
10	17.30	S9018-ND	.77	.70	.50	SBH21-NBPN-D05-ST-BK
14	21.30	S9019-ND	.82	.75	.53	SBH21-NBPN-D07-ST-BK
16	23.30	S9020-ND	.82	.75	.53	SBH21-NBPN-D08-ST-BK
20	27.30	S9021-ND	.90	.82	.58	SBH21-NBPN-D10-ST-BK
26	33.30	S9022-ND	1.06	.96	.68	SBH21-NBPN-D13-ST-BK
34	41.30	S9023-ND	1.11	1.01	.72	SBH21-NBPN-D17-ST-BK
40	47.30	S9024-ND	1.17	1.06	.75	SBH21-NBPN-D20-ST-BK
44	51.30	S9025-ND	1.17	1.06	.75	SBH21-NBPN-D22-ST-BK
50	57.30	S9026-ND	1.22	1.11	.79	SBH21-NBPN-D25-ST-BK
Fig. 2 — Dual Row Headers, Right Angle						
10	17.30	S9027-ND	1.01	.92	.65	SBH21-NBPN-D05-RA-BK
14	21.30	S9028-ND	1.17	1.06	.75	SBH21-NBPN-D07-RA-BK
16	23.30	S9029-ND	1.17	1.06	.75	SBH21-NBPN-D08-RA-BK
20	27.30	S9030-ND	1.19	1.08	.77	SBH21-NBPN-D10-RA-BK
26	33.30	S9031-ND	1.30	1.18	.84	SBH21-NBPN-D13-RA-BK
34	41.30	S9032-ND	1.40	1.28	.91	SBH21-NBPN-D17-RA-BK
40	47.30	S9033-ND	1.56	1.42	1.01	SBH21-NBPN-D20-RA-BK
44	51.30	S9034-ND	1.56	1.42	1.01	SBH21-NBPN-D22-RA-BK
50	57.30	S9035-ND	1.70	1.54	1.09	SBH21-NBPN-D25-RA-BK
Fig. 3 — Dual Row Headers, SMT						
10	17.30	S9036-ND	1.06	.96	.68	SBH21-NBPN-D05-SM-BK
14	21.30	S9037-ND	1.22	1.11	.79	SBH21-NBPN-D07-SM-BK
16	23.30	S9038-ND	1.22	1.11	.79	SBH21-NBPN-D08-SM-BK
20	27.30	S9039-ND	1.27	1.16	.82	SBH21-NBPN-D10-SM-BK
26	33.30	S9040-ND	1.30	1.18	.84	SBH21-NBPN-D13-SM-BK
34	41.30	S9041-ND	1.43	1.30	.92	SBH21-NBPN-D17-SM-BK
40	47.30	S9042-ND	1.62	1.47	1.04	SBH21-NBPN-D20-SM-BK
44	51.30	S9043-ND	1.62	1.47	1.04	SBH21-NBPN-D22-SM-BK
50	57.30	S9044-ND	1.78	1.61	1.14	SBH21-NBPN-D25-SM-BK
Fig. 4 — Dual Row Receptacles, with Polarizing Key						
10	15.25	S9045-ND	.95	.87	.62	SFH213-PPPN-D05-ID-BK
14	19.25	S9046-ND	1.03	.94	.67	SFH213-PPPN-D07-ID-BK
16	21.25	S9047-ND	1.03	.94	.67	SFH213-PPPN-D08-ID-BK
20	25.25	S9048-ND	1.09	.99	.70	SFH213-PPPN-D10-ID-BK
26	31.25	S9049-ND	1.17	1.06	.75	SFH213-PPPN-D13-ID-BK
34	39.25	S9050-ND	1.27	1.16	.82	SFH213-PPPN-D17-ID-BK
40	45.25	S9051-ND	1.35	1.23	.87	SFH213-PPPN-D20-ID-BK
44	49.25	S9052-ND	1.30	1.18	.84	SFH213-PPPN-D22-ID-BK
50	55.25	S9054-ND	1.54	1.40	.99	SFH213-PPPN-D25-ID-BK
Fig. 4 — Dual Row Receptacles, without Polarizing Key						
10	15.25	S9055-ND	.95	.87	.62	SFH213-PPPN-D05-ID-BK-M181
14	19.25	S9056-ND	1.03	.94	.67	SFH213-PPPN-D07-ID-BK-M181
16	21.25	S9057-ND	1.03	.94	.67	SFH213-PPPN-D08-ID-BK-M181
20	25.25	S9058-ND	1.09	.99	.70	SFH213-PPPN-D10-ID-BK-M181
26	31.25	S9060-ND	1.17	1.06	.75	SFH213-PPPN-D13-ID-BK-M181
34	39.25	S9061-ND	1.27	1.16	.82	SFH213-PPPN-D17-ID-BK-M181
40	45.25	S9062-ND	1.35	1.23	.87	SFH213-PPPN-D20-ID-BK-M181
44	49.25	S9063-ND	1.30	1.18	.84	SFH213-PPPN-D22-ID-BK-M181
50	55.25	S9064-ND	1.54	1.40	.99	SFH213-PPPN-D25-ID-BK-M181
Fig. 5 — Dual Row Receptacles, with Polarizing Key						
10	15.25	S9066-ND	.85	.77	.55	SFH21-PPPN-D05-ID-BK
14	19.25	S9067-ND	.93	.84	.60	SFH21-PPPN-D07-ID-BK
16	21.25	S9068-ND	.93	.84	.60	SFH21-PPPN-D08-ID-BK
20	25.25	S9069-ND	.98	.89	.63	SFH21-PPPN-D10-ID-BK
26	31.25	S9070-ND	1.06	.96	.68	SFH21-PPPN-D13-ID-BK
34	39.25	S9071-ND	1.17	1.06	.75	SFH21-PPPN-D17-ID-BK
40	45.25	S9072-ND	1.25	1.13	.80	SFH21-PPPN-D20-ID-BK
44	49.25	S9073-ND	1.19	1.08	.77	SFH21-PPPN-D22-ID-BK
50	55.25	S9074-ND	1.40	1.28	.91	SFH21-PPPN-D25-ID-BK
Fig. 5 — Dual Row Receptacles, without Polarizing Key						
10	15.25	S9075-ND	.85	.77	.55	SFH21-PPPN-D05-ID-BK-M181
14	19.25	S9076-ND	.93	.84	.60	SFH21-PPPN-D07-ID-BK-M181
16	21.25	S9077-ND	.93	.84	.60	SFH21-PPPN-D08-ID-BK-M181
20	25.25	S9078-ND	.98	.89	.63	SFH21-PPPN-D10-ID-BK-M181
26	31.25	S9079-ND	1.06	.96	.68	SFH21-PPPN-D13-ID-BK-M181
34	39.25	S9080-ND	1.17	1.06	.75	SFH21-PPPN-D17-ID-BK-M181
40	45.25	S9082-ND	1.25	1.13	.80	SFH21-PPPN-D20-ID-BK-M181
44	49.25	S9083-ND	1.19	1.08	.77	SFH21-PPPN-D22-ID-BK-M181
50	55.25	S9084-ND	1.40	1.28	.91	SFH21-PPPN-D25-ID-BK-M181

2mm Cable-to-Board Receptacle

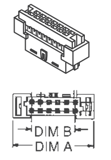

UL2651, UL2678 **UL File No:** E29179 **CSA File No:** LR19980 **Mates With:** Milli-Grid 2.00mm Headers ***Electrical:*** **• Voltage:** 125VDC **• Current:** 1.0A **• Contact Resistance:** 30mΩ maximum **• Dielectric Withstanding Voltage:** 500VAC **• Insulation Resistance:** 5000MΩ minimum ***Physical:*** **• Housing:** High Thermoplastic, UL 94V-0 **• Contact:** Copper Alloy **• Plating Contact Area:** (15µ") Gold **• Operating Temperature:** -20°C ~ 85°C **• Cable:** 1.00mm Flat Cable, 7 Strands, 28AWG

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	25	
Dual Row, IDT without Polarization and Locking Ramp							
10	16.65	8.00	WM14210-ND◆	2.61	2.09	1.75	87568-1063
12	18.65	10.00	WM14212-ND◆	2.90	2.32	1.94	87568-1263
14	20.65	12.00	WM14214-ND◆	3.34	2.68	2.23	87568-1463
16	22.65	14.00	WM14216-ND◆	3.58	2.87	2.39	87568-1663
20	26.65	18.00	WM14220-ND◆	3.73	2.99	2.49	87568-2063
22	28.65	20.00	WM14222-ND	4.10	3.29	2.74	87568-2263
24	30.65	22.00	WM14224-ND◆	4.47	3.58	2.99	87568-2463
26	32.65	24.00	WM14226-ND◆	4.56	3.65	3.04	87568-2663
30	36.65	28.00	WM14230-ND◆	4.81	3.85	3.21	87568-3063
34	40.65	32.00	WM14234-ND◆	5.07	4.06	3.39	87568-3463
40	46.65	38.00	WM14240-ND◆	5.52	4.42	3.68	87568-4063
44	50.65	42.00	WM14244-ND◆	5.74	4.60	3.83	87568-4463
50	56.65	48.00	WM14250-ND◆	6.34	5.08	4.23	87568-5063
Dual Row, IDT with Single Locking Ramp — RoHS Compliant							
10	16.65	8.00	WM14310-ND	1.94	1.62	1.50	87568-1073
12	18.65	10.00	WM14312-ND	2.90	2.32	1.94	87568-1273
Dual Row, IDT with Polarization and Locking Ramp — RoHS Compliant							
14	20.65	12.00	WM14314-ND	3.34	2.68	2.23	87568-1493
16	22.65	14.00	WM14316-ND	3.58	2.87	2.39	87568-1693
20	26.65	18.00	WM14320-ND	3.73	2.99	2.49	87568-2093
22	28.65	20.00	WM14322-ND	4.10	3.29	2.74	87568-2293
24	30.65	22.00	WM14324-ND	4.47	3.58	2.99	87568-2493
26	32.65	24.00	WM14326-ND	4.56	3.65	3.04	87568-2693
30	36.65	28.00	WM14330-ND	4.81	3.85	3.21	87568-3093
34	40.65	32.00	WM14334-ND	5.07	4.06	3.39	87568-3493
40	46.65	38.00	WM14340-ND	5.52	4.42	3.68	87568-4093
44	50.65	42.00	WM14344-ND	5.74	4.60	3.83	87568-4493
50	56.65	48.00	WM14350-ND	6.34	5.08	4.23	87568-5093

WM8510-ND◆(76650-0195) **Milli-Grid™ Deluxe Connector Kit**;
(Rectangle Free Hanging Header, Housing).. **$71.04**

◆ ***RoHS Compliant***

1mm Round Conductor Flat Cable

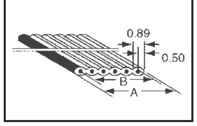

UL File No: E61522, UL Style No. 2678 **CSA File No:** LL61126 ***Electrical:*** **• Voltage:** 150V ***Physical:*** **• Flammability:** VW-1 **• Operating Temperature:** -20°C ~ 105°C **• Insulation:** Gray PVC **• Edge Mark:** Black, 28AWG Stranded, Tinned

No. of Circuits	Dimensions (mm)		Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Feet) Price Per Feet				
	A	B		5	10	25	50	100
10	10.00	9.00	WM11-X-ND	6.78	12.76	27.92	47.86	79.77
20	20.00	19.00	WM12-X-ND	15.71	29.56	64.67	110.87	184.78
24	24.00	23.00	WM13-X-ND	14.76	27.78	60.76	104.17	173.61
40	40.00	39.00	WM14-X-ND	22.17	41.73	91.27	156.47	260.78
44	44.00	43.00	WM15-X-ND	26.48	49.85	109.05	186.94	311.57
50	50.00	49.00	WM16-X-ND	46.21	86.98	190.26	326.16	543.60

Tyco Electronics
Authorized Distributor

AMP 2mm Ribbon Connectors

RoHS COMPLIANT

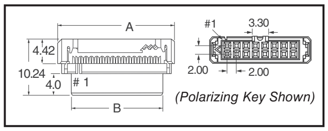

(Polarizing Key Shown)

The new 2.0mm (.079") AMP-LATCH® receptacle connector family features contacts on a true 2.0mm x 2.0mm (.079" x .079") mating grid for 1.0mm (.039") pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" minimum tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54mm (.061") from the face of the housing and they accept 0.50mm (.0197") round or square posts **Product Facts:** • True hard metric 2.0mm x 2.0mm mating grid for 1.0mm pitch ribbon cable • IDC, beryllium copper contacts, duplex plated gold-over-nickel • UL 94V-0 rated thermoplastic components **Performance Data:** • Durability: 150 cycles • Termination Resistance: 25mΩ maximum • Mating Force: 1.67N maximum • Unmating Force: 0.14N min. • Operating Temperature: -65°C ~ 105°C

No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Receptacle — Feed Thru Cover Polarized						
10	15.16	10.41	AKA10L-ND	3.26	2.05	1-111623-8
14	19.18	14.40	AKA14L-ND	3.50	2.20	1-111623-9
16	21.18	16.41	AKA16L-ND	3.63	2.28	2-111623-0
20	25.17	20.40	AKA20L-ND	3.76	2.36	2-111623-1
24	29.18	24.41	AKA24L-ND	4.00	2.51	2-111623-7
26	31.17	26.42	AKA26L-ND	4.13	2.59	2-111623-2
30	35.18	30.40	AKA30L-ND	4.24	2.66	2-111623-3
40	45.19	40.14	AKA40L-ND	4.51	2.83	2-111623-4
44	49.17	44.40	AKA44L-ND	4.61	2.89	2-111623-5
50	55.17	50.39	AKA50L-ND	4.74	2.98	2-111623-6
Receptacle — Feed Thru Cover Non-Polarized						
8	13.18	8.41	ASA08L-ND	3.50	2.20	2-111626-4
10	15.16	10.41	ASA10L-ND	3.66	2.30	1-111626-7
14	19.18	14.40	ASA14L-ND	3.79	2.38	1-111626-8
16	21.18	16.41	ASA16L-ND	3.95	2.48	2-111626-5
20	25.17	20.40	ASA20L-ND	4.08	2.56	1-111626-9
24	29.18	24.41	ASA24L-ND	4.24	2.66	2-111626-6
26	31.17	26.42	ASA26L-ND	4.40	2.76	2-111626-7
34	39.17	34.42	ASA34L-ND	4.53	2.84	2-111626-0
40	45.19	40.41	ASA40L-ND	4.69	2.94	2-111626-1
44	49.17	44.40	ASA44L-ND	4.85	3.04	2-111626-2
50	55.17	50.39	ASA50L-ND	5.11	3.21	2-111626-3

ASSMANN Electronics

NEW! 2mm Socket Connectors

RoHS COMPLIANT

Specifications:
• **Contact Rating:** 1.0A • **Insulation Resistance:** 1,000MΩ Min. • **Dielectric Withstanding:** 500V AC
• **Operating Temperature:** -55°~105°C
Materials:
• **Insulator:** P.B.T. 30% Glass Fiber, UL94V-0 • **Contact Material:** Phosphor Bronze, Gold Flash over Nickel

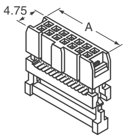

With Strain Refief and Polarizing Key

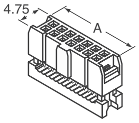

With Polarizing Key

No. of Con-tacts	Dim. A Inch (mm)	Con-tact Finish	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Socket Connector with Strain Relief and Polarizing Key						
10	15.25	Gold	HSE10H-ND	1.85	1.54	AWP2-10-7241-T-R
14	19.25	Gold	HSE14H-ND	2.06	1.72	AWP2-14-7241-T-R
16	21.25	Gold	HSE16H-ND	2.06	1.72	AWP2-16-7241-T-R
20	25.25	Gold	HSE20H-ND	1.85	1.54	AWP2-20-7241-T-R
24	29.25	Gold	HSE24H-ND	2.27	1.89	AWP2-24-7241-T-R
26	31.25	Gold	HSE26H-ND	2.06	1.72	AWP2-26-7241-T-R
40	45.25	Gold	HSE40H-ND	2.27	1.89	AWP2-40-7241-T-R
50	55.25	Gold	HSE50H-ND	3.02	2.51	AWP2-50-7241-T-R
Socket Connector with Polarizing Key						
10	15.25	Gold	HTA10H-ND	1.65	1.37	AWP2-10-7240-T-R
14	19.25	Gold	HTA14H-ND	1.85	1.54	AWP2-14-7240-T-R
16	21.25	Gold	HTA16H-ND	1.78	1.49	AWP2-16-7240-T-R
20	25.25	Gold	HTA20H-ND	1.65	1.37	AWP2-20-7240-T-R
24	29.25	Gold	HTA24H-ND	2.06	1.72	AWP2-24-7240-T-R
26	31.25	Gold	HTA26H-ND	1.85	1.54	AWP2-26-7240-T-R
40	45.25	Gold	HTA40H-ND	2.06	1.72	AWP2-40-7240-T-R
50	55.25	Gold	HTA50H-ND	2.75	2.29	AWP2-50-7240-T-R

NEW! 1mm Flat Cable

RoHS COMPLIANT

Electrical: • **Rating:** Temp 105°C • **Voltage:** 300V • **Conductor Resistance:** at 20°C • **Conduct Resistance:** 2Ω Max
Conductor: • **AWG:** 28 AWG • **Material:** TC • **Size:** 7/ϕ0.125±0.008MM
Jacket: • **Min. Avg. Thick:** 0.26MM • **Material:** 105°C 45) UL-PVC • **Color:** Grey (Half Atomizer)
• **OD:** 0.90MM±0.10*10.0MM±0.30MM

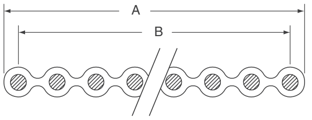

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
10	10.0	9.0	AE10A-X-ND	1.48	2.62	5.70	9.70	17.11
14	14.0	13.0	AE14A-X-ND	2.03	3.60	7.82	13.29	23.45
16	16.0	15.0	AE16A-X-ND	2.31	4.08	8.87	15.08	26.62
20	20.0	19.0	AE20A-X-ND	2.58	5.16	9.54	16.84	31.43
24	24.0	23.0	AE24A-X-ND	3.05	6.11	11.29	19.92	37.19
26	26.0	25.0	AE26A-X-ND	3.31	5.76	12.24	21.60	40.32
40	40.0	39.0	AE40A-X-ND	5.09	8.85	16.59	30.96	61.93
50	50.0	49.0	AE50A-X-ND	5.66	9.63	21.24	39.64	79.28

Note: Cable available in 300 foot reel. Please call for pricing.

NEW! 2mm Low Profile Headers

RoHS COMPLIANT

Specifications: • **Current Rating:** 1A • **Insulation Resistance:** 5,000MΩ Min. • **Dielectric Withstanding:** 500V AC • **Operating Temperature:** -40°C ~ 105°C **Materials:** • **Insulator:** Polyester, UL 94V-0, Standard PA6T • **Contact Material:** Copper Alloy • **Finish:** Gold plated • **Standard:** Gold Flash all over

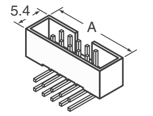

Right Angle

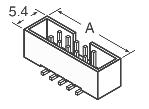

Surface Mount

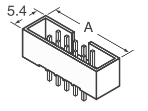

Straight Lead

No. of Con-tacts	Dim. A Inch (mm)	Con-tact Finish	Digi-Key Part No.	Price Each 1	10	25	50	Assmann Part No.
Pin Header Right Angle								
10	17.3	Gold	AE10552-ND	1.90	1.58	1.47	1.32	AWHW2-10A-0202-T-R
14	21.3	Gold	AE10553-ND	1.92	1.60	1.48	1.33	AWHW2-14A-0202-T-R
16	23.3	Gold	AE10554-ND	2.13	1.77	1.64	1.48	AWHW2-16A-0202-T-R
20	27.3	Gold	AE10555-ND	2.33	1.94	1.80	1.62	AWHW2-20A-0202-T-R
24	31.3	Gold	AE10556-ND	2.40	2.00	1.85	1.67	AWHW2-24A-0202-T-R
26	33.3	Gold	AE10557-ND	2.47	2.06	1.90	1.71	AWHW2-26A-0202-T-R
40	47.3	Gold	AE10558-ND	2.61	2.17	2.01	1.81	AWHW2-40A-0202-T-R
50	57.3	Gold	AE10559-ND	3.09	2.57	2.38	2.14	AWHW2-50A-0202-T-R
Pin Header Surface Mount								
10	16.3	Gold	AE10568-ND	2.06	1.72	1.59	1.43	AWHW2-10-G-SMD-R
14	20.3	Gold	AE10569-ND	2.20	1.83	1.69	1.53	AWHW2-14-G-SMD-R
16	22.3	Gold	AE10570-ND	2.20	1.83	1.69	1.53	AWHW2-16-G-SMD-R
20	26.3	Gold	AE10571-ND	2.40	2.00	1.85	1.67	AWHW2-20-G-SMD-R
26	32.3	Gold	AE10572-ND	2.40	2.00	1.85	1.67	AWHW2-26-G-SMD-R
40	46.3	Gold	AE10573-ND	2.75	2.29	2.12	1.91	AWHW2-40-G-SMD-R
Pin Header Straight Lead								
10	17.3	Gold	AE10560-ND	1.63	1.27	1.19	1.08	AWHW2-10G-0202-T-R
14	21.3	Gold	AE10561-ND	1.74	1.36	1.26	1.15	AWHW2-14G-0202-T-R
16	23.3	Gold	AE10562-ND	1.67	1.30	1.21	1.10	AWHW2-16G-0202-T-R
20	27.3	Gold	AE10563-ND	1.80	1.40	1.31	1.19	AWHW2-20G-0202-T-R
24	31.3	Gold	AE10564-ND	1.79	1.39	1.30	1.18	AWHW2-24G-0202-T-R
26	33.3	Gold	AE10565-ND	1.65	1.37	1.27	1.15	AWHW2-26G-0202-T-R
40	47.3	Gold	AE10566-ND	1.85	1.54	1.43	1.29	AWHW2-40G-0202-T-R
50	57.3	Gold	AE10567-ND	2.06	1.72	1.59	1.43	AWHW2-50G-0202-T-R

3M 2mm Pin Strip Single Row Headers

Physical Specifications: • **Insulation:** • **Material:** High Temperature Thermoplastic • Flammability: UL94V-0 • Color: Black • **Contact:** • Material: Copper Alloy • **Plating:** • Underplating: 1.25μm ~ 2.5μm (100μ") Nickel • Wiping Area: 0.25μm (10μ") Gold • Solder Tail Area: 1μm ~ 3μm (40μ" ~ 118μ") Matte Tin **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: > 5 x 10^8 Ω at 100VDC • Withstanding Voltage: • 1000VDC **Environmental Specifications:** • Temperature Range: -40° ~ 105°C

Fig. 1

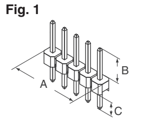

Fig. 2

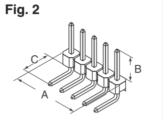

Fig. 3

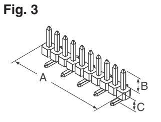

Fig. 4

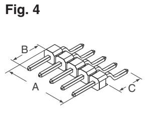

No. of Pos.	Dimensions - Inch (mm)			Digi-Key Part No.	Pricing			3M Part No.
	A	B	C		1	100	500	
Fig. 1 — Vertical, Thru-Hole (Black) — 10μ" Gold								
2	.158 (4.0)	.173 (4.4)	.110 (2.8)	3M9321-ND	.10	7.90	35.75	951102-8622-AR
3	.237 (6.0)	.173 (4.4)	.110 (2.8)	3M9322-ND	.10	7.90	35.75	951103-8622-AR
4	.315 (8.0)	.173 (4.4)	.110 (2.8)	3M9323-ND	.15	11.06	50.05	951104-8622-AR
5	.394 (10.0)	.173 (4.4)	.110 (2.8)	3M9324-ND	.17	12.64	57.20	951105-8622-AR
6	.473 (12.0)	.173 (4.4)	.110 (2.8)	3M9325-ND	.21	15.80	71.50	951106-8622-AR
7	.551 (14.0)	.173 (4.4)	.110 (2.8)	3M9326-ND	.23	17.38	78.65	951107-8622-AR
8	.630 (16.0)	.173 (4.4)	.110 (2.8)	3M9327-ND	.27	20.54	92.95	951108-8622-AR
9	.709 (18.0)	.173 (4.4)	.110 (2.8)	3M9328-ND	.31	23.70	107.25	951109-8622-AR
10	.788 (20.0)	.173 (4.4)	.110 (2.8)	3M9329-ND	.33	25.28	114.40	951110-8622-AR
12	.945 (24.0)	.173 (4.4)	.110 (2.8)	3M9330-ND	.42	31.60	143.00	951112-8622-AR
14	1.103 (28.0)	.173 (4.4)	.110 (2.8)	3M9331-ND	.48	36.34	164.45	951114-8622-AR
15	1.181 (30.0)	.173 (4.4)	.110 (2.8)	3M9332-ND	.50	37.92	171.60	951115-8622-AR
18	1.418 (36.0)	.173 (4.4)	.110 (2.8)	3M9333-ND	.60	45.82	207.35	951118-8622-AR
20	1.575 (40.0)	.173 (4.4)	.110 (2.8)	3M9334-ND	.69	52.14	235.95	951120-8622-AR
22	1.733 (44.0)	.173 (4.4)	.110 (2.8)	3M9335-ND	.75	56.88	257.40	951122-8622-AR
36	2.835 (72.0)	.173 (4.4)	.110 (2.8)	3M9336-ND	1.23	93.22	421.85	951136-8622-AR
40	3.150 (80.0)	.173 (4.4)	.110 (2.8)	3M9337-ND	1.35	102.70	464.75	951140-8622-AR
Fig. 2 — Right Angle, Thru-Hole (Black) — 10μ" Gold								
2	.158 (4.0)	.173 (4.4)	.110 (2.8)	3M9304-ND	.10	7.90	35.75	951102-7622-AR
3	.237 (6.0)	.173 (4.4)	.110 (2.8)	3M9305-ND	.15	11.06	50.05	951103-7622-AR
4	.315 (8.0)	.173 (4.4)	.110 (2.8)	3M9306-ND	.21	15.80	71.50	951104-7622-AR
5	.394 (10.0)	.173 (4.4)	.110 (2.8)	3M9307-ND	.25	18.96	85.80	951105-7622-AR
6	.473 (12.0)	.173 (4.4)	.110 (2.8)	3M9308-ND	.31	23.70	107.25	951106-7622-AR
7	.551 (14.0)	.173 (4.4)	.110 (2.8)	3M9309-ND	.35	26.86	121.55	951107-7622-AR
8	.630 (16.0)	.173 (4.4)	.110 (2.8)	3M9310-ND	.42	31.60	143.00	951108-7622-AR
9	.709 (18.0)	.173 (4.4)	.110 (2.8)	3M9311-ND	.46	34.76	157.30	951109-7622-AR
10	.788 (20.0)	.173 (4.4)	.110 (2.8)	3M9312-ND	.52	39.50	178.75	951110-7622-AR
12	.945 (24.0)	.173 (4.4)	.110 (2.8)	3M9313-ND	.62	47.40	214.50	951112-7622-AR
14	1.103 (28.0)	.173 (4.4)	.110 (2.8)	3M9314-ND	.73	55.30	250.25	951114-7622-AR
15	1.181 (30.0)	.173 (4.4)	.110 (2.8)	3M9315-ND	.77	58.46	264.55	951115-7622-AR
18	1.418 (36.0)	.173 (4.4)	.110 (2.8)	3M9316-ND	.94	71.10	321.75	951118-7622-AR
20	1.575 (40.0)	.173 (4.4)	.110 (2.8)	3M9317-ND	1.04	79.00	357.50	951120-7622-AR
22	1.733 (44.0)	.173 (4.4)	.110 (2.8)	3M9318-ND	1.14	86.90	393.25	951122-7622-AR
36	2.835 (72.0)	.173 (4.4)	.110 (2.8)	3M9319-ND	1.85	140.62	636.35	951136-7622-AR
40	3.150 (80.0)	.173 (4.4)	.110 (2.8)	3M9320-ND	2.06	156.42	707.85	951140-7622-AR
Fig. 3 — SMT Vertical (Black) — 10μ" Gold								
4	.237 (6.0)	.158 (4.00)	.102 (2.60)	3M9338CT-ND†	.73	55.30	—	951104-2530-AR-PR
4	.237 (6.0)	.158 (4.00)	.102 (2.60)	3M9338TR-ND◊		250.25/500		951104-2530-AR-PR
5	.315 (8.0)	.158 (4.00)	.102 (2.60)	3M9339CT-ND†	.83	63.20	—	951105-2530-AR-PR
5	.315 (8.0)	.158 (4.00)	.102 (2.60)	3M9339TR-ND◊		286.00/500		951105-2530-AR-PR
6	.394 (10.0)	.158 (4.00)	.102 (2.60)	3M9340CT-ND†	.92	69.52	—	951106-2530-AR-PR
6	.394 (10.0)	.158 (4.00)	.102 (2.60)	3M9340TR-ND◊		314.60/500		951106-2530-AR-PR
7	.473 (12.0)	.158 (4.00)	.102 (2.60)	3M9341CT-ND†	1.02	77.42	—	951107-2530-AR-PR
7	.473 (12.0)	.158 (4.00)	.102 (2.60)	3M9341TR-ND◊		350.35/500		951107-2530-AR-PR
8	.551 (14.0)	.158 (4.00)	.102 (2.60)	3M9342CT-ND†	1.10	83.74	—	951108-2530-AR-PR
8	.551 (14.0)	.158 (4.00)	.102 (2.60)	3M9342TR-ND◊		378.95/500		951108-2530-AR-PR
9	.630 (16.0)	.158 (4.00)	.102 (2.60)	3M9343CT-ND†	1.21	91.64	—	951109-2530-AR-PR
9	.630 (16.0)	.158 (4.00)	.102 (2.60)	3M9343TR-ND◊		414.70/500		951109-2530-AR-PR
10	.709 (18.0)	.158 (4.00)	.102 (2.60)	3M9344CT-ND†	1.29	97.96	—	951110-2530-AR-PR
10	.709 (18.0)	.158 (4.00)	.102 (2.60)	3M9344TR-ND◊		443.30/500		951110-2530-AR-PR
12	.866 (22.0)	.158 (4.00)	.102 (2.60)	3M9345CT-ND†	1.48	112.18	—	951112-2530-AR-PR
12	.866 (22.0)	.158 (4.00)	.102 (2.60)	3M9345TR-ND◊		507.65/500		951112-2530-AR-PR
14	1.024 (26.0)	.158 (4.00)	.102 (2.60)	3M9346CT-ND†	1.66	126.40	—	951114-2530-AR-PR
14	1.024 (26.0)	.158 (4.00)	.102 (2.60)	3M9346TR-ND◊		572.00/500		951114-2530-AR-PR
15	1.103 (28.0)	.158 (4.00)	.102 (2.60)	3M9347CT-ND†	1.77	134.30	—	951115-2530-AR-PR
15	1.103 (28.0)	.158 (4.00)	.102 (2.60)	3M9347TR-ND◊		607.75/500		951115-2530-AR-PR
18	1.339 (34.0)	.158 (4.00)	.102 (2.60)	3M9348CT-ND†	2.06	156.42	—	951118-2530-AR-PR
18	1.339 (34.0)	.158 (4.00)	.102 (2.60)	3M9348TR-ND◊		707.85/500		951118-2530-AR-PR
20	1.496 (38.0)	.158 (4.00)	.102 (2.60)	3M9349CT-ND†	2.23	169.06	—	951120-2530-AR-PR
20	1.496 (38.0)	.158 (4.00)	.102 (2.60)	3M9349TR-ND◊		765.05/500		951120-2530-AR-PR
22	1.654 (42.0)	.158 (4.00)	.102 (2.60)	3M9350CT-ND†	2.43	184.86	—	951122-2530-AR-PR
22	1.654 (42.0)	.158 (4.00)	.102 (2.60)	3M9350TR-ND◊		836.55/500		951122-2530-AR-PR
36	2.756 (70.0)	.158 (4.00)	.102 (2.60)	3M9351CT-ND†	3.74	284.40	—	951136-2530-AR-PR
36	2.756 (70.0)	.158 (4.00)	.102 (2.60)	3M9351TR-ND◊		1287.00/500		951136-2530-AR-PR
40	3.071 (78.0)	.158 (4.00)	.102 (2.60)	3M9352CT-ND†	4.14	314.42	—	951140-2350-AR-PR
40	3.071 (78.0)	.158 (4.00)	.102 (2.60)	3M9352TR-ND◊		1422.85/500		951140-2350-AR-PR
Fig. 4 — SMT Right Angle (Black) - 10μ" Gold								
4	.315 (8.0)	.175 (4.45)	.169 (4.30)	3M9353CT-ND†	.87	66.36	—	951104-4620-AR-PR
4	.315 (8.0)	.175 (4.45)	.169 (4.30)	3M9353TR-ND◊		300.30/500		951104-4620-AR-PR
5	.394 (10.0)	.175 (4.45)	.169 (4.30)	3M9354CT-ND†	1.02	77.42	—	951105-4620-AR-PR
5	.394 (10.0)	.175 (4.45)	.169 (4.30)	3M9354TR-ND◊		350.35/500		951105-4620-AR-PR
6	.473 (12.0)	.175 (4.45)	.169 (4.30)	3M9355CT-ND†	1.19	90.06	—	951106-4620-AR-PR
6	.473 (12.0)	.175 (4.45)	.169 (4.30)	3M9355TR-ND◊		407.55/500		951106-4620-AR-PR
7	.551 (14.0)	.175 (4.45)	.169 (4.30)	3M9356CT-ND†	1.33	101.12	—	951107-4620-AR-PR
7	.551 (14.0)	.175 (4.45)	.169 (4.30)	3M9356TR-ND◊		457.60/500		951107-4620-AR-PR
8	.630 (16.0)	.175 (4.45)	.169 (4.30)	3M9357CT-ND†	1.46	110.60	—	951108-4620-AR-PR
8	.630 (16.0)	.175 (4.45)	.169 (4.30)	3M9357TR-ND◊		500.50/500		951108-4620-AR-PR
9	.709 (18.0)	.175 (4.45)	.169 (4.30)	3M9358CT-ND†	1.58	120.08	—	951109-4620-AR-PR
9	.709 (18.0)	.175 (4.45)	.169 (4.30)	3M9358TR-ND◊		543.40/500		951109-4620-AR-PR
10	.788 (20.0)	.175 (4.45)	.169 (4.30)	3M9359CT-ND†	1.66	126.40	—	951110-4620-AR-PR
10	.788 (20.0)	.175 (4.45)	.169 (4.30)	3M9359TR-ND◊		572.00/500		951110-4620-AR-PR
12	.945 (24.0)	.175 (4.45)	.169 (4.30)	3M9360CT-ND†	1.87	142.20	—	951112-4620-AR-PR
12	.945 (24.0)	.175 (4.45)	.169 (4.30)	3M9360TR-ND◊		643.50/500		951112-4620-AR-PR
14	1.103 (28.0)	.175 (4.45)	.169 (4.30)	3M9361CT-ND†	2.10	159.58	—	951114-4620-AR-PR
14	1.103 (28.0)	.175 (4.45)	.169 (4.30)	3M9361TR-ND◊		722.15/500		951114-4620-AR-PR
15	1.181 (30.0)	.175 (4.45)	.169 (4.30)	3M9362CT-ND†	2.25	170.64	—	951115-4620-AR-PR
15	1.181 (30.0)	.175 (4.45)	.169 (4.30)	3M9362TR-ND◊		772.20/500		951115-4620-AR-PR
18	1.418 (36.0)	.175 (4.45)	.169 (4.30)	3M9363CT-ND†	2.62	199.08	—	951118-4620-AR-PR
18	1.418 (36.0)	.175 (4.45)	.169 (4.30)	3M9363TR-ND◊		900.90/500		951118-4620-AR-PR
20	1.575 (40.0)	.175 (4.45)	.169 (4.30)	3M9364CT-ND†	2.85	216.46	—	951120-4620-AR-PR
20	1.575 (40.0)	.175 (4.45)	.169 (4.30)	3M9364TR-ND◊		979.55/500		951120-4620-AR-PR
22	1.733 (44.0)	.175 (4.45)	.169 (4.30)	3M9365CT-ND†	3.12	237.00	—	951122-4620-AR-PR
22	1.733 (44.0)	.175 (4.45)	.169 (4.30)	3M9365TR-ND◊		1072.50/500		951122-4620-AR-PR
Shunts								
2mm Gold Flash Shunt				3M9414-ND	.21	15.80	71.50	959102-0000-DA

† Cut Tape ◊ Tape and Reel

2mm Single Row Boardmount Sockets

Physical Specifications: • **Insulation:** • **Material:** High Temperature Thermoplastic • Flammability: UL94V-0 • Color: Black • **Contact:** • Material: Copper Alloy • **Plating:** • Underplating: 1.25μm ~ 2.5μm (100μ") Nickel • Wiping Area: 0.25μm (10μ") Gold • Solder Tail Area: 1μm ~ 3μm (40μ" ~ 118μ") Matte Tin **Electrical Specifications:** • Current Rating: 1Amp Insulation Resistance: • > 5 x 10^8 Ω at 100VDC • Withstanding Voltage: • 1000VDC **Environmental Specifications:** • Temperature Range: -40° ~ 105°C • Processing Temperature: 260°C maximum (Profile per J-STD-020C)

Fig. 1

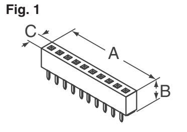

Fig. 2

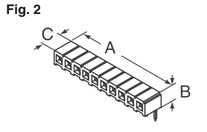

Fig. 3

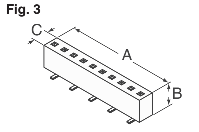

No. of Pos.	Dimensions - Inch (mm)			Digi-Key Part No.	Pricing			3M Part No.
	A	B	C		1	100	500	
Fig. 1 — Vertical, Thru-Hole (Black) — 10μ" Gold								
2	.177 (4.5)	.169 (4.30)	.095 (2.40)	3M9397-ND	.54	41.08	185.90	950502-6102-AR
3	.256 (6.5)	.169 (4.30)	.095 (2.40)	3M9398-ND	.67	50.56	228.80	950503-6102-AR
4	.335 (8.5)	.169 (4.30)	.095 (2.40)	3M9399-ND	.83	63.20	286.00	950504-6102-AR
5	.414 (10.5)	.169 (4.30)	.095 (2.40)	3M9400-ND	.94	71.10	321.75	950505-6102-AR
6	.492 (12.5)	.169 (4.30)	.095 (2.40)	3M9401-ND	1.04	79.00	357.50	950506-6102-AR
7	.571 (14.5)	.169 (4.30)	.095 (2.40)	3M9402-ND	1.14	86.90	393.25	950507-6102-AR
8	.650 (16.5)	.169 (4.30)	.095 (2.40)	3M9403-ND	1.19	90.06	407.55	950508-6102-AR
9	.729 (18.5)	.169 (4.30)	.095 (2.40)	3M9404-ND	1.27	96.38	436.15	950509-6102-AR
10	.807 (20.5)	.169 (4.30)	.095 (2.40)	3M9405-ND	1.25	94.80	429.00	950510-6102-AR
12	.965 (24.5)	.169 (4.30)	.095 (2.40)	3M9406-ND	1.50	113.76	514.80	950512-6102-AR
14	1.122 (28.5)	.169 (4.30)	.095 (2.40)	3M9407-ND	1.75	132.72	600.60	950514-6102-AR
15	1.201 (30.5)	.169 (4.30)	.095 (2.40)	3M9408-ND	1.87	142.20	643.50	950515-6102-AR
18	1.437 (36.5)	.169 (4.30)	.095 (2.40)	3M9409-ND	2.25	170.64	772.20	950518-6102-AR
20	1.595 (40.5)	.169 (4.30)	.095 (2.40)	3M9410-ND	2.50	189.60	858.00	950520-6102-AR
22	1.752 (44.5)	.169 (4.30)	.095 (2.40)	3M9411-ND	2.68	203.82	922.35	950522-6102-AR
36	2.855 (72.5)	.169 (4.30)	.095 (2.40)	3M9412-ND	4.39	333.38	1508.65	950536-6102-AR
40	3.170 (80.5)	.169 (4.30)	.095 (2.40)	3M9413-ND	4.89	371.30	1680.25	950540-6102-AR
Fig. 2 — Right Angle, Thru-Hole (Black) — 10μ" Gold								
3	.256 (6.5)	.110 (2.80)	.169 (4.30)	3M9366-ND	.56	42.66	193.05	950503-5002-AR
4	.335 (8.5)	.110 (2.80)	.169 (4.30)	3M9367-ND	.67	50.56	228.80	950504-5002-AR
5	.414 (10.5)	.110 (2.80)	.169 (4.30)	3M9368-ND	.83	63.20	286.00	950505-5002-AR
6	.492 (12.5)	.110 (2.80)	.169 (4.30)	3M9369-ND	1.02	77.42	350.35	950506-5002-AR
7	.571 (14.5)	.110 (2.80)	.169 (4.30)	3M9370-ND	1.10	83.74	378.95	950507-5002-AR
8	.650 (16.5)	.110 (2.80)	.169 (4.30)	3M9371-ND	1.21	91.64	414.70	950508-5002-AR
9	.729 (18.5)	.110 (2.80)	.169 (4.30)	3M9372-ND	1.31	99.54	450.45	950509-5002-AR
10	.807 (20.5)	.110 (2.80)	.169 (4.30)	3M9373-ND	1.39	105.86	479.05	950510-5002-AR
12	.965 (24.5)	.110 (2.80)	.169 (4.30)	3M9374-ND	1.60	121.66	550.55	950512-5020-AR
14	1.122 (28.5)	.110 (2.80)	.169 (4.30)	3M9375-ND	1.85	140.62	636.35	950514-5002-AR
15	1.201 (30.5)	.110 (2.80)	.169 (4.30)	3M9376-ND	2.00	151.68	686.40	950515-5002-AR
18	1.437 (36.5)	.110 (2.80)	.169 (4.30)	3M9377-ND	2.39	181.70	822.25	950518-5002-AR
20	1.595 (40.5)	.110 (2.80)	.169 (4.30)	3M9378-ND	2.66	202.24	915.20	950520-5002-AR
22	1.752 (44.5)	.110 (2.80)	.169 (4.30)	3M9379-ND	2.91	221.20	1001.00	950522-5002-AR
36	2.855 (72.5)	.110 (2.80)	.169 (4.30)	3M9380-ND	4.78	363.40	1644.50	950536-5002-AR
40	3.170 (80.5)	.110 (2.80)	.169 (4.30)	3M9381-ND	5.30	402.90	1823.25	950540-5002-AR
Fig. 3 — SMT Vertical (Black) — 10μ" Gold								
4	.315 (8.0)	.169 (4.30)	.095 (2.40)	3M9382CT-ND†	1.21	91.64	—	953104-2000-AR-PR
4	.315 (8.0)	.169 (4.30)	.095 (2.40)	3M9382TR-ND◊		829.40/1,000		953104-2000-AR-PR
5	.394 (10.0)	.169 (4.30)	.095 (2.40)	3M9383CT-ND†	1.35	102.70	—	953105-2000-AR-PR
5	.394 (10.0)	.169 (4.30)	.095 (2.40)	3M9383TR-ND◊		929.50/1,000		953105-2000-AR-PR
6	.473 (12.0)	.169 (4.30)	.095 (2.40)	3M9384CT-ND†	1.50	113.76	—	953106-2000-AR-PR
6	.473 (12.0)	.169 (4.30)	.095 (2.40)	3M9384TR-ND◊		1029.60/1,000		953106-2000-AR-PR
7	.551 (14.0)	.169 (4.30)	.095 (2.40)	3M9385CT-ND†	1.62	123.24	—	953107-2000-AR-PR
7	.551 (14.0)	.169 (4.30)	.095 (2.40)	3M9385TR-ND◊		1115.40/1,000		953107-2000-AR-PR
8	.630 (16.0)	.169 (4.30)	.095 (2.40)	3M9386CT-ND†	1.71	129.56	—	953108-2000-AR-PR
8	.630 (16.0)	.169 (4.30)	.095 (2.40)	3M9386TR-ND◊		1172.60/1,000		953108-2000-AR-PR
9	.709 (18.0)	.169 (4.30)	.095 (2.40)	3M9387CT-ND†	1.73	131.14	—	953109-2000-AR-PR
9	.709 (18.0)	.169 (4.30)	.095 (2.40)	3M9387TR-ND◊		1186.90/1,000		953109-2000-AR-PR
10	.788 (20.0)	.169 (4.30)	.095 (2.40)	3M9388CT-ND†	1.73	131.14	—	953110-2000-AR-PR
10	.788 (20.0)	.169 (4.30)	.095 (2.40)	3M9388TR-ND◊		1186.90/1,000		953110-2000-AR-PR
12	.945 (24.0)	.169 (4.30)	.095 (2.40)	3M9389CT-ND†	2.00	151.68	—	953112-2000-AR-PR
12	.945 (24.0)	.169 (4.30)	.095 (2.40)	3M9389TR-ND◊		1372.80/1,000		953112-2000-AR-PR
14	1.103 (28.0)	.169 (4.30)	.095 (2.40)	3M9390CT-ND†	2.29	173.80	—	953114-2000-AR-PR
14	1.103 (28.0)	.169 (4.30)	.095 (2.40)	3M9390TR-ND◊		1573.00/1,000		953114-2000-AR-PR
15	1.181 (30.0)	.169 (4.30)	.095 (2.40)	3M9391CT-ND†	2.43	184.86	—	953115-2000-AR-PR
15	1.181 (30.0)	.169 (4.30)	.095 (2.40)	3M9391TR-ND◊		1673.10/1,000		953115-2000-AR-PR
18	1.418 (36.0)	.169 (4.30)	.095 (2.40)	3M9392CT-ND†	2.85	216.46	—	953118-2000-AR-PR
18	1.418 (36.0)	.169 (4.30)	.095 (2.40)	3M9392TR-ND◊		1959.10/1,000		953118-2000-AR-PR
20	1.575 (40.0)	.169 (4.30)	.095 (2.40)	3M9393CT-ND†	3.14	238.58	—	953120-2000-AR-PR
20	1.575 (40.0)	.169 (4.30)	.095 (2.40)	3M9393TR-ND◊		2159.30/1,000		953120-2000-AR-PR
22	1.733 (44.0)	.169 (4.30)	.095 (2.40)	3M9394CT-ND†	3.41	259.12	—	953122-2000-AR-PR
22	1.733 (44.0)	.169 (4.30)	.095 (2.40)	3M9394TR-ND◊		2345.20/1,000		953122-2000-AR-PR
36	2.835 (72.0)	.169 (4.30)	.095 (2.40)	3M9395CT-ND†	5.39	409.22	—	953136-2000-AR-PR
36	2.835 (72.0)	.169 (4.30)	.095 (2.40)	3M9395TR-ND◊		3703.70/1,000		953136-2000-AR-PR
40	3.150 (80.0)	.169 (4.30)	.095 (2.40)	3M9396CT-ND†	5.95	451.88	—	953140-2000-AR-PR
40	3.150 (80.0)	.169 (4.30)	.095 (2.40)	3M9396TR-ND◊		4089.80/1,000		953140-2000-AR-PR

† Cut Tape ◊ Tape and Reel

3M

Digi-Reel®

2mm x 2mm Pin Strip Headers

c US

Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature

Physical Specifications: • **Contact Plating:** • Solder Tails: 200µ" Tin Lead (RoHS Compliant: Matte Tin) • Underplate: 100µ" Nickel • **Contact Material:** Copper Alloy • **Insulator Material:** High Temperature Thermoplastic (PCT or LCP) • Flammability: UL 94V-0

Electrical Specifications: • Current Rating: 1.5A • Insulation Resistance: >1 x 10^9Ω @ 250VDC • **Withstanding Voltage:** 500VDC @ Sea level

• **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

Fig. 1

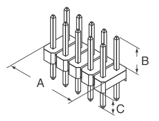

Fig. 2

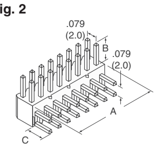

Fig. 3

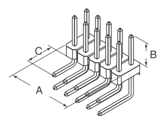

Fig. 4

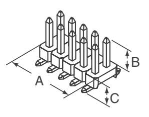

Fig. 5

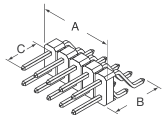

No. of Pos.	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Fig. 1 — Vertical, Thru-Hole (Natural) — 30µ" Gold								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1108-ND	1.12	85.32	386.10	151208-8422-TB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1110-ND	1.81	137.46	622.05	151210-8422-TB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1112-ND	1.35	102.70	464.75	151212-8422-TB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1120-ND	1.81	137.46	622.05	151220-8422-TB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1124-ND	2.08	158.00	715.00	151224-8422-TB
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1140-ND	3.43	260.70	1179.75	151240-8422-TB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1144-ND	3.64	276.50	1251.25	151244-8422-TB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1150-ND	3.37	255.96	1158.30	151250-8422-TB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M1160-ND	4.78	363.40	1644.50	151260-8422-TB
Fig. 1 — Vertical, Thru-Hole (Black) — 30µ" Gold — RoHS Compliant								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1408-ND	.92	69.52	314.60	151208-8422-RB
8	.295 (7.5)	.152 (3.86)	.059 (1.5)	3M5353-ND	1.66	126.40	572.00	151208-8421-RB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1410-ND	1.00	75.84	343.20	151210-8422-RB
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5356-ND	1.00	75.84	343.20	151210-8322-RB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1412-ND	1.10	83.74	378.95	151212-8422-RB
14	.531 (13.5)	.152 (3.86)	.118 (3.0)	3M5358-ND	1.21	91.64	414.70	151214-8422-RB
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5362-ND	1.33	101.12	457.60	151216-8422-RB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1420-ND	1.48	112.18	507.65	151220-8422-RB
20	.768 (19.5)	.130 (3.30)	.059 (1.5)	3M5365-ND	2.27	172.22	779.35	151220-8321-RB
20	.768 (19.5)	.130 (3.30)	.118 (3.0)	3M5366-ND	1.48	112.18	507.65	151220-8322-RB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1424-ND	1.71	129.56	586.30	151224-8422-RB
26	1.005 (25.5)	.130 (3.30)	.118 (3.0)	3M5370-ND	1.79	135.88	614.90	151226-8322-RB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1430-ND	1.96	148.52	672.10	151230-8422-RB
40	1.556 (39.5	.152 (3.86)	.118 (3.0)	3M1440-ND	2.56	194.34	879.45	151240-8422-RB
40	1.556 (39.5)	.130 (3.30)	.118 (3.0)	3M5373-ND	2.33	176.96	800.80	151240-8322-RB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1444-ND	2.79	211.72	958.10	151244-8422-RB
44	1.714 (43.5)	.130 (3.30)	.118 (3.0)	3M5375-ND	3.12	237.00	1072.50	151244-8322-RB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1450-ND	3.24	246.48	1115.40	151250-8422-RB
50	1.950 (49.5)	.130 (3.30)	.118 (3.0)	3M5377-ND	3.33	252.80	1144.00	151250-8322-RB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M5381-ND	3.70	281.24	1272.70	151260-8422-RB
Fig. 1 — Vertical, Thru-Hole (Black) — 10µ" Gold — RoHS Compliant								
4	.315 (8.0)	.173 (4.4)	.110 (2.8)	3M9172-ND	.17	12.64	57.20	951204-8622-AR
6	.473 (12.0)	.173 (4.4)	.110 (2.8)	3M9173-ND	.25	18.96	85.80	951206-8622-AR
8	.630 (16.0)	.173 (4.4)	.110 (2.8)	3M9174-ND	.33	25.28	114.40	951208-8622-AR
10	.788 (20.0)	.173 (4.4)	.110 (2.8)	3M9175-ND	.42	31.60	143.00	951210-8622-AR
12	.945 (24.0)	.173 (4.4)	.110 (2.8)	3M9176-ND	.50	37.92	171.60	951212-8622-AR
14	1.103 (28.0)	.173 (4.4)	.110 (2.8)	3M9177-ND	.58	44.24	200.20	951214-8622-AR
20	1.575 (40.0)	.173 (4.4)	.110 (2.8)	3M9178-ND	.83	63.20	286.00	951220-8622-AR
22	1.733 (44.0)	.173 (4.4)	.110 (2.8)	3M9179-ND	.92	69.52	314.60	951222-8622-AR
24	1.890 (48.0)	.173 (4.4)	.110 (2.8)	3M9180-ND	1.00	75.84	343.20	951224-8622-AR
26	2.048 (52.0)	.173 (4.4)	.110 (2.8)	3M9181-ND	1.08	82.16	371.80	951226-8622-AR
30	2.363 (60.0)	.173 (4.4)	.110 (2.8)	3M9182-ND	1.27	96.38	436.15	951230-8622-AR
34	2.677 (68.0)	.173 (4.4)	.110 (2.8)	3M9183-ND	1.44	109.02	493.35	951234-8622-AR
40	3.150 (80.0)	.173 (4.4)	.110 (2.8)	3M9184-ND	1.68	127.98	579.15	951240-8622-AR
44	3.465 (88.0)	.173 (4.4)	.110 (2.8)	3M9185-ND	1.83	139.04	629.20	951244-8622-AR
50	3.937 (100.0)	.173 (4.4)	.110 (2.8)	3M9186-ND	2.08	158.00	715.00	951250-8622-AR
60	4.725 (120.0)	.173 (4.4)	.110 (2.8)	3M9187-ND	2.50	189.60	858.00	951260-8622-AR
80	6.300 (160.0)	.173 (4.4)	.110 (2.8)	3M9188-ND	3.35	254.38	1151.15	951280-8622-AR
Fig. 2 — Right Angle, Thru-Hole (Natural) — 30µ" Gold								
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1210-ND	.81	61.62	278.85	151210-7422-TB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1220-ND	1.23	93.22	421.85	151220-7422-TB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1224-ND	1.39	105.86	479.05	151224-7422-TB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1230-ND	1.62	123.24	557.70	151230-7422-TB
Fig. 2 — Right Angle, Thru-Hole (Black) — 30µ" Gold — RoHS Compliant								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1508-ND	.64	48.98	221.65	151208-7422-RB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1510-ND	.71	53.72	243.10	151210-7422-RB
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5355-ND	1.00	75.84	343.20	151210-7322-RB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1512-ND	.79	60.04	271.70	151212-7422-RB
12	.453 (11.5)	.130 (3.30)	.118 (3.0)	3M5357-ND	.81	61.62	278.85	151212-7322-RB
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5361-ND	.87	66.36	300.30	151216-7422-RB
18	.689 (17.5)	.130 (3.30)	.118 (3.0)	3M5363-ND	1.04	79.00	357.50	151218-7322-RB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1520-ND	1.12	85.32	386.10	151220-7422-RB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1524-ND	1.44	109.02	493.35	151224-7422-RB
26	1.005 (25.5)	.152 (3.86)	.118 (3.0)	3M5369-ND	1.56	118.50	536.25	151226-7422-RB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1530-ND	1.33	101.12	457.60	151230-7422-RB
32	1.240 (31.5)	.130 (3.0)	.118 (3.0)	3M5371-ND	1.52	115.34	521.95	151232-7322-RB
36	1.398 (35.5)	.130 (3.0)	.118 (3.0)	3M5372-ND	1.64	124.82	564.85	151236-7322-RB
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1540-ND	2.08	158.00	715.00	151240-7422-RB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1544-ND	3.16	240.16	1086.80	151244-7422-RB
44	1.714 (43.5)	.152 (3.86)	.059 (1.5)	3M5374-ND	2.70	205.40	929.50	151244-7421-RB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1550-ND	3.54	268.60	1215.50	151250-7422-RB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M2360-ND	3.70	281.24	1272.70	151260-7422-RB
Fig. 3 — Right Angle, Thru-Hole (Black) — 10µ" Gold — RoHS Compliant								
4	.158 (4.0)	.173 (4.4)	.110 (2.8)	3M9156-ND	.37	28.44	128.70	951204-7622-AR
6	.237 (6.0)	.173 (4.4)	.110 (2.8)	3M9157-ND	.48	36.34	164.45	951206-7622-AR
8	.315 (8.0)	.173 (4.4)	.110 (2.8)	3M9158-ND	.50	37.92	171.60	951208-7622-AR
10	.394 (10.0)	.173 (4.4)	.110 (2.8)	3M9159-ND	.60	45.82	207.35	951210-7622-AR
12	.473 (12.0)	.173 (4.4)	.110 (2.8)	3M9160-ND	.69	52.14	235.95	951212-7622-AR
14	.551 (14.0)	.173 (4.4)	.110 (2.8)	3M9161-ND	.77	58.46	264.55	951214-7622-AR
20	.788 (20.0)	.173 (4.4)	.110 (2.8)	3M9162-ND	.98	74.26	336.05	951220-7622-AR
22	.866 (22.0)	.173 (4.4)	.110 (2.8)	3M9163-ND	1.06	80.58	364.65	951222-7622-AR
24	.945 (24.0)	.173 (4.4)	.110 (2.8)	3M9164-ND	1.14	86.90	393.25	951224-7622-AR
30	1.181 (30.0)	.173 (4.4)	.110 (2.8)	3M9165-ND	1.33	101.12	457.60	951230-7622-AR
34	1.339 (34.0)	.173 (4.4)	.110 (2.8)	3M9166-ND	1.52	115.34	521.95	951234-7622-AR
40	1.575 (40.0)	.173 (4.4)	.110 (2.8)	3M9167-ND	1.68	127.98	579.15	951240-7622-AR
44	1.733 (44.0)	.173 (4.4)	.110 (2.8)	3M9168-ND	1.73	131.14	593.45	951244-7622-AR
50	1.969 (50.0)	.173 (4.4)	.110 (2.8)	3M9169-ND	1.98	150.10	679.25	951250-7622-AR
60	2.363 (60.0)	.173 (4.4)	.110 (2.8)	3M9170-ND	2.37	180.12	815.10	951260-7622-AR
80	3.15 (80.0)	.173 (4.4)	.110 (2.8)	3M9171-ND	3.16	240.16	1086.80	951280-7622-AR
Fig. 4 SMT (Black) — 30µ" Gold — RoHS Compliant								
4	.139 (3.5)	.130 (3.0)	.263 (6.68)	3M5350-ND	.67	50.56	228.80	151204-2320-RB
8	.295 (7.5)	.152 (3.86)	.263 (6.68)	3M5352CT-ND†	1.93	146.94	—	151208-2420-RB-WB
8	.295 (7.5)	.152 (3.86)	.263 (6.68)	3M5352TR-ND◊		332.48/250		151208-2420-RB-WB
10	.374 (9.5)	.152 (3.86)	.263 (6.68)	3M5354CT-ND†	2.02	153.26	—	151210-2420-RB-WB
10	.374 (9.5)	.152 (3.86)	.263 (6.68)	3M5354TR-ND◊		346.78/250		151210-2420-RB-WB
16	.611 (15.5)	.130 (3.0)	.263 (6.68)	3M5359-ND	1.33	101.12	457.60	151216-2320-RB
16	.611 (15.5)	.152 (3.86)	.263 (6.68)	3M5360-ND	1.33	101.12	457.60	151216-2420-RB
16	.611 (15.5)	.152 (3.86)	.263 (6.68)	3M5360CT-ND†	2.12	161.16	—	151216-2420-RB-WC
16	.611 (15.5)	.152 (3.86)	.263 (6.68)	3M5360TR-ND◊		364.65/250		151216-2420-RB-WC
20	.768 (19.5)	.152 (3.86)	.263 (6.68)	3M5364-ND	1.48	112.18	507.65	151220-2420-RB
22	.847 (21.5)	.152 (3.86)	.263 (6.68)	3M5367-ND	1.37	104.28	471.90	151222-2420-RB
26	1.005 (25.5)	.152 (3.86)	.263 (6.68)	3M5368CT-ND†	4.37	331.80	—	151226-2420-RB-WD
26	1.005 (25.5)	.152 (3.86)	.263 (6.68)	3M5368TR-ND◊		750.75/250		151226-2420-RB-WD
50	1.949 (49.5)	.152 (3.86)	.263 (6.68)	3M5376CT-ND†	3.54	268.60	—	151250-2420-RB-WF
50	1.949 (49.5)	.152 (3.86)	.263 (6.68)	3M5376TR-ND◊		1215.50/500		151250-2420-RB-WF
60	2.344 (59.5)	.130 (3.0)	.263 (6.68)	3M5378-ND	3.79	287.56	1301.30	151260-2320-RB
60	2.344 (59.5)	.152 (3.86)	.263 (6.68)	3M5379-ND	3.95	300.20	1358.50	151260-2420-RB
Fig. 4 SMT (Black) — 10µ" Gold — RoHS Compliant								
8	.315 (8.0)	.158 (4.00)	.102 (2.60)	3M9189CT-ND†	.96	72.68	—	951208-2520-AR-PR
8	.315 (8.0)	.158 (4.00)	.102 (2.60)	3M9189TR-ND◊		328.90/500		951208-2520-AR-PR
10	.394 (10.0)	.158 (4.00)	.102 (2.60)	3M9190CT-ND†	1.08	82.16	—	951210-2520-AR-PR
10	.394 (10.0)	.158 (4.00)	.102 (2.60)	3M9190TR-ND◊		371.80/500		951210-2520-AR-PR
12	.473 (12.0)	.158 (4.00)	.102 (2.60)	3M9191CT-ND†	1.23	93.22	—	951212-2520-AR-PR
12	.473 (12.0)	.158 (4.00)	.102 (2.60)	3M9191TR-ND◊		421.85/500		951212-2520-AR-PR
14	.551 (14.0)	.158 (4.00)	.102 (2.60)	3M9192CT-ND†	1.35	102.70	—	951214-2520-AR-PR
14	.551 (14.0)	.158 (4.00)	.102 (2.60)	3M9192TR-ND◊		464.75/500		951214-2520-AR-PR
20	.788 (20.0)	.158 (4.00)	.102 (2.60)	3M9193CT-ND†	1.58	120.08	—	951220-2520-AR-PR
20	.788 (20.0)	.158 (4.00)	.102 (2.60)	3M9193TR-ND◊		543.40/500		951220-2520-AR-PR
22	.866 (22.0)	.158 (4.00)	.102 (2.60)	3M9194CT-ND†	1.73	131.14	—	951222-2520-AR-PR
22	.866 (22.0)	.158 (4.00)	.102 (2.60)	3M9194TR-ND◊		593.45/500		951222-2520-AR-PR
24	.945 (24.0)	.158 (4.00)	.102 (2.60)	3M9195CT-ND†	1.87	142.20	—	951224-2520-AR-PR
24	.945 (24.0)	.158 (4.00)	.102 (2.60)	3M9195TR-ND◊		643.50/500		951224-2520-AR-PR
26	1.024 (26.0)	.158 (4.00)	.102 (2.60)	3M9196CT-ND†	2.00	151.68	—	951226-2520-AR-PR
26	1.024 (26.0)	.158 (4.00)	.102 (2.60)	3M9196TR-ND◊		686.40/500		951226-2520-AR-PR
30	1.181 (30.0)	.158 (4.00)	.102 (2.60)	3M9197CT-ND†	2.20	167.48	—	951230-2520-AR-PR
30	1.181 (30.0)	.158 (4.00)	.102 (2.60)	3M9197TR-ND◊		757.90/500		951230-2520-AR-PR
34	1.339 (34.0)	.158 (4.00)	.102 (2.60)	3M9198CT-ND†	2.50	189.60	—	951234-2520-AR-PR
34	1.339 (34.0)	.158 (4.00)	.102 (2.60)	3M9198TR-ND◊		858.00/500		951234-2520-AR-PR
40	1.575 (40.0)	.158 (4.00)	.102 (2.60)	3M9199CT-ND†	2.93	222.78	—	951240-2520-AR-PR
40	1.575 (40.0)	.158 (4.00)	.102 (2.60)	3M9199TR-ND◊		1008.15/500		951240-2520-AR-PR
44	1.733 (44.0)	.158 (4.00)	.102 (2.60)	3M9200CT-ND†	3.20	243.32	—	951244-2520-AR-PR
44	1.733 (44.0)	.158 (4.00)	.102 (2.60)	3M9200TR-ND◊		1101.10/500		951244-2520-AR-PR
50	1.969 (50.0)	.158 (4.00)	.102 (2.60)	3M9201CT-ND†	3.62	274.92	—	951250-2520-AR-PR
50	1.969 (50.0)	.158 (4.00)	.102 (2.60)	3M9201TR-ND◊		1244.10/500		951250-2520-AR-PR
60	2.363 (60.0)	.158 (4.00)	.102 (2.60)	3M9202CT-ND†	4.33	328.64	—	951260-2520-AR-PR
60	2.363 (60.0)	.158 (4.00)	.102 (2.60)	3M9202TR-ND◊		1487.20/500		951260-2520-AR-PR
80	3.150 (80.0)	.158 (4.00)	.102 (2.60)	3M9203CT-ND†	5.72	434.50	—	951280-2520-AR-PR
80	3.150 (80.0)	.158 (4.00)	.102 (2.60)	3M9203TR-ND◊		1966.25/500		951280-2520-AR-PR
Fig. 5 SMT Right Angle (Black) — 10µ" Gold — RoHS Compliant								
8	.315 (8.0)	.175 (4.45)	.327 (8.30)	3M9204CT-ND†	1.91	145.36	—	951208-4620-AR-PR
8	.315 (8.0)	.175 (4.45)	.327 (8.30)	3M9204TR-ND◊		657.80/500		951208-4620-AR-PR
10	.394 (10.0)	.175 (4.45)	.327 (8.30)	3M9205CT-ND†	2.18	165.90	—	951210-4620-AR-PR
10	.394 (10.0)	.175 (4.45)	.327 (8.30)	3M9205TR-ND◊		750.75/500		951210-4620-AR-PR
12	.473 (12.0)	.175 (4.45)	.327 (8.30)	3M9206CT-ND†	2.56	194.34	—	951212-4620-AR-PR
12	.473 (12.0)	.175 (4.45)	.327 (8.30)	3M9206TR-ND◊		879.45/500		951212-4620-AR-PR
14	.551 (14.0)	.175 (4.45)	.327 (8.30)	3M9207CT-ND†	2.93	222.78	—	951214-4620-AR-PR
14	.551 (14.0)	.175 (4.45)	.327 (8.30)	3M9207TR-ND◊		1008.15/500		951214-4620-AR-PR
20	.788 (20.0)	.175 (4.45)	.327 (8.30)	3M9208CT-ND†	3.45	262.28	—	951220-4620-AR-PR
20	.788 (20.0)	.175 (4.45)	.327 (8.30)	3M9208TR-ND◊		1186.90/500		951220-4620-AR-PR
22	.866 (22.0)	.175 (4.45)	.327 (8.30)	3M9209CT-ND†	3.72	282.82	—	951222-4620-AR-PR
22	.866 (22.0)	.175 (4.45)	.327 (8.30)	3M9209TR-ND◊		1279.85/500		951222-4620-AR-PR
24	.945 (24.0)	.175 (4.45)	.327 (8.30)	3M9210CT-ND†	3.91	297.04	—	951224-4620-AR-PR
24	.945 (24.0)	.175 (4.45)	.327 (8.30)	3M9210TR-ND◊		1344.20/500		951224-4620-AR-PR
26	1.024 (26.0)	.175 (4.45)	.327 (8.30)	3M9211CT-ND†	4.16	316.00	—	951226-4620-AR-PR
26	1.024 (26.0)	.175 (4.45)	.327 (8.30)	3M9211TR-ND◊		1430.00/500		951226-4620-AR-PR
30	1.181 (30.0)	.175 (4.45)	.327 (8.30)	3M9212CT-ND†	4.45	338.12	—	951230-4620-AR-PR
30	1.181 (30.0)	.175 (4.45)	.327 (8.30)	3M9212TR-ND◊		1530.10/500		951230-4620-AR-PR
34	1.339 (34.0)	.175 (4.45)	.327 (8.30)	3M9213CT-ND†	4.68	355.50	—	951234-4620-AR-PR
34	1.339 (34.0)	.175 (4.45)	.327 (8.30)	3M9213TR-ND◊		1608.75/500		951234-4620-AR-PR
40	1.575 (40.0)	.175 (4.45)	.327 (8.30)	3M9214CT-ND†	5.64	428.18	—	951240-4620-AR-PR
40	1.575 (40.0)	.175 (4.45)	.327 (8.30)	3M9214TR-ND◊		1937.65/500		951240-4620-AR-PR
44	1.733 (44.0)	.175 (4.45)	.327 (8.30)	3M9215CT-ND†	6.14	466.10	—	951244-4620-AR-PR
44	1.733 (44.0)	.175 (4.45)	.327 (8.30)	3M9215TR-ND◊		2109.25/500		951244-4620-AR-PR
50	1.969 (50.0)	.175 (4.45)	.327 (8.30)	3M9216CT-ND†	6.88	522.98	—	951250-4620-AR-PR
50	1.969 (50.0)	.175 (4.45)	.327 (8.30)	3M9216TR-ND◊		2366.65/500		951250-4620-AR-PR
Shunts								
2mm Gold Flash Shunt				3M9414-ND	.21	15.80	71.50	959102-0000-DA

† Cut Tape ◊ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

3M 2mm x 2mm Boardmount Sockets

c UL us Digi-Reel®

Features: • High temperature dielectric • Reflow solder compatible • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature **Physical Specifications:** • Insulator Material: Glass Filled Polyester (PCT) • Marking: Orientation delta and 3M Logo • Contact Material: Beryllium copper or Copper alloy • Contact Plating: • Wiping area: 30µ" gold • Solder Tails: 200µ" Tin/Lead (RoHS Compliant: 300µ" Matte Tin) • Underplate: 50µ ~ 150" Nickel overall **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: 1 x 10^9MΩ @ 250VDC • **Withstanding Voltage:** 500VDC @ Sea level • **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

Fig. 1

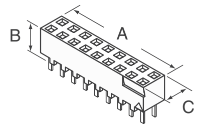

Fig. 2

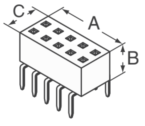

Fig. 3

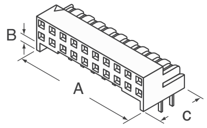

Fig. 4

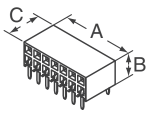

Fig. 5

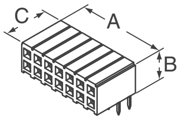

Fig. 6

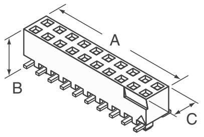

Fig. 7

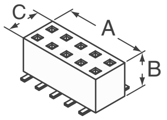

Fig. 8

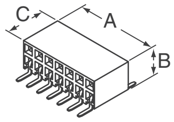

Fig. 9

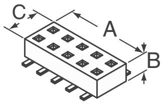

No. of Pos.	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			3M Part No.
	A	B	C		1	100	500	
Fig. 1 — Vertical , Thru-Hole (Natural) — 30µ" Gold								
8	.310 (8.0)	.177 (4.50)	.151 (3.84)	3M1008-ND	2.20	1.68	1.52	150208-6002-TB
10	.389 (10.0)	.177 (4.50)	.151 (3.84)	3M1010-ND	2.29	1.74	1.58	150210-6002-TB
20	.782 (20.0)	.177 (4.50)	.151 (3.84)	3M1020-ND	2.70	2.06	1.86	150220-6002-TB
24	.940 (24.0)	.177 (4.50)	.151 (3.84)	3M1024-ND	2.87	2.19	1.98	150224-6002-TB
30	1.176 (30.0)	.177 (4.50)	.151 (3.84)	3M1030-ND	3.10	2.36	2.14	150230-6002-TB
40	1.570 (40.0)	.177 (4.50)	.151 (3.84)	3M1040-ND	3.49	2.66	2.41	150240-6002-TB
44	1.727 (44.0)	.177 (4.50)	.151 (3.84)	3M1044-ND	3.68	2.80	2.54	150244-6002-TB
50	1.964 (50.0)	.177 (4.50)	.151 (3.84)	3M1050-ND	3.91	2.98	2.69	150250-6002-TB
Fig. 1 — Vertical, Thru-Hole (Black) — 30µ" Gold — RoHS Compliant								
4	.156 (4.0)	.177 (4.50)	.151 (3.84)	3M5301-ND	1.54	1.17	1.06	150204-6002-RB
6	.231 (6.0)	.177 (4.50)	.151 (3.84)	3M5303-ND	1.64	1.25	1.13	150206-6001-RB
6	.231 (6.0)	.177 (4.50)	.151 (3.84)	3M5304-ND	1.62	1.24	1.12	150206-6002-RB
8	.310 (8.0)	.177 (4.50)	.151 (3.84)	3M1308-ND	1.64	1.25	1.13	150208-6002-RB
10	.389 (10.0)	.177 (4.50)	.151 (3.84)	3M1310-ND	1.71	1.30	1.18	150210-6002-RB
12	.467 (12.0)	.177 (4.50)	.151 (3.84)	3M1312-ND	1.77	1.35	1.22	150212-6002-RB
14	.546 (14.0)	.177 (4.50)	.151 (3.84)	3M5308-ND	1.83	1.40	1.26	150214-6002-RB
16	.625 (16.0)	.177 (4.50)	.151 (3.84)	3M5311-ND	1.87	1.43	1.29	150216-6002-RB
18	.704 (18.0)	.177 (4.50)	.151 (3.84)	3M5312-ND	1.93	1.47	1.33	150218-6002-RB
20	.782 (20.0)	.177 (4.50)	.151 (3.84)	3M1320-ND	2.02	1.54	1.39	150220-6002-RB
24	.940 (24.0)	.177 (4.50)	.151 (3.84)	3M1324-ND	2.14	1.63	1.48	150224-6002-RB
26	1.019 (26.0)	.177 (4.50)	.151 (3.84)	3M5321-ND	2.18	1.66	1.51	150226-6002-RB
28	1.097 (28.0)	.177 (4.50)	.151 (3.84)	3M5322-ND	2.18	1.66	1.51	150228-6002-RB
30	1.176 (30.0)	.177 (4.50)	.151 (3.84)	3M1330-ND	2.31	1.76	1.59	150230-6002-RB
32	1.255 (32.0)	.177 (4.50)	.151 (3.84)	3M5325-ND	2.37	1.81	1.64	150232-6002-RB
34	1.334 (34.0)	.177 (4.50)	.151 (3.84)	3M5328-ND	2.43	1.85	1.68	150234-6002-RB
40	1.570 (40.0)	.177 (4.50)	.151 (3.84)	3M1340-ND	2.60	1.98	1.79	150240-6002-RB
44	1.727 (44.0)	.177 (4.50)	.151 (3.84)	3M1344-ND	2.75	2.09	1.89	150244-6002-RB
50	1.964 (50.0)	.177 (4.50)	.151 (3.84)	3M1350-ND	2.93	2.23	2.02	150250-6002-RB
60	2.357 (60.0)	.177 (4.50)	.151 (3.84)	3M1360-ND	3.24	2.47	2.24	150260-6002-RB
Fig. 1 — Vertical, Thru-Hole (Black) — 10µ" Gold — RoHS Compliant								
4	.177 (4.5)	.181 (4.60)	.169 (4.30)	3M9139-ND	1.25	.95	.86	950404-6102-AR
6	.256 (6.5)	.181 (4.60)	.169 (4.30)	3M9140-ND	1.33	1.02	.92	950406-6102-AR
8	.335 (8.5)	.181 (4.60)	.169 (4.30)	3M9141-ND	1.41	1.08	.98	950408-6102-AR
10	.414 (10.5)	.181 (4.60)	.169 (4.30)	3M9142-ND	1.50	1.14	1.03	950410-6102-AR
12	.492 (12.5)	.181 (4.60)	.169 (4.30)	3M9143-ND	1.58	1.21	1.09	950412-6102-AR
14	.571 (14.5)	.181 (4.60)	.169 (4.30)	3M9144-ND	1.66	1.27	1.15	950414-6102-AR
20	.807 (20.5)	.181 (4.60)	.169 (4.30)	3M9145-ND	1.89	1.44	1.31	950420-6102-AR
22	.886 (22.5)	.181 (4.60)	.169 (4.30)	3M9146-ND	1.98	1.51	1.36	950422-6102-AR
24	.965 (24.5)	.181 (4.60)	.169 (4.30)	3M9147-ND	2.04	1.55	1.41	950424-6102-AR
26	1.043 (26.5)	.181 (4.60)	.169 (4.30)	3M9148-ND	2.12	1.62	1.46	950426-6102-AR
30	1.201 (30.5)	.181 (4.60)	.169 (4.30)	3M9149-ND	2.27	1.73	1.56	950430-6102-AR
34	1.358 (34.5)	.181 (4.60)	.169 (4.30)	3M9150-ND	2.41	1.84	1.66	950434-6102-AR
40	1.595 (40.5)	.181 (4.60)	.169 (4.30)	3M9151-ND	2.54	1.93	1.75	950440-6102-AR
44	1.752 (44.5)	.181 (4.60)	.169 (4.30)	3M9152-ND	2.66	2.03	1.84	950444-6102-AR
50	1.988 (50.5)	.181 (4.60)	.169 (4.30)	3M9153-ND	2.89	2.20	1.99	950450-6102-AR
60	2.382 (60.5)	.181 (4.60)	.169 (4.30)	3M9154-ND	3.31	2.52	2.28	950460-6102-AR
80	3.170 (80.5)	.181 (4.60)	.169 (4.30)	3M9155-ND	4.99	3.80	3.44	950480-6102-AR
Fig. 2 — Vertical, Thru-Hole Dual-Entry (Black) — 10µ" Gold — RoHS Compliant								
4	.177 (4.5)	.169 (4.30)	.181 (4.60)	3M9217-ND	1.41	1.08	.98	953404-6602-AR
6	.256 (6.5)	.169 (4.30)	.181 (4.60)	3M9218-ND	1.66	1.27	1.15	953406-6602-AR
8	.335 (8.5)	.169 (4.30)	.181 (4.60)	3M9219-ND	1.89	1.44	1.31	953408-6602-AR
10	.414 (10.5)	.169 (4.30)	.181 (4.60)	3M9220-ND	2.10	1.60	1.45	953410-6602-AR
12	.492 (12.5)	.169 (4.30)	.181 (4.60)	3M9221-ND	2.31	1.76	1.59	953412-6602-AR
14	.571 (14.5)	.169 (4.30)	.181 (4.60)	3M9222-ND	2.48	1.89	1.71	953414-6602-AR
20	.807 (20.5)	.169 (4.30)	.181 (4.60)	3M9223-ND	3.39	2.58	2.34	953420-6602-AR
22	.886 (22.5)	.169 (4.30)	.181 (4.60)	3M9224-ND	3.68	2.80	2.54	953422-6602-AR
24	.965 (24.5)	.169 (4.30)	.181 (4.60)	3M9225-ND	3.99	3.04	2.75	953424-6602-AR
26	1.043 (26.5)	.169 (4.30)	.181 (4.60)	3M9226-ND	4.28	3.26	2.95	953426-6602-AR
30	1.201 (30.5)	.169 (4.30)	.181 (4.60)	3M9227-ND	4.95	3.77	3.41	953430-6602-AR
34	1.358 (34.5)	.169 (4.30)	.181 (4.60)	3M9228-ND	5.60	4.26	3.85	953434-6602-AR
40	1.595 (40.5)	.169 (4.30)	.181 (4.60)	3M9229-ND	6.59	5.01	4.54	953440-6602-AR
44	1.752 (44.5)	.169 (4.30)	.181 (4.60)	3M9230-ND	7.26	5.52	5.00	953444-6602-AR
50	1.988 (50.5)	.169 (4.30)	.181 (4.60)	3M9231-ND	8.24	6.26	5.67	953450-6602-AR
60	2.382 (60.5)	.169 (4.30)	.181 (4.60)	3M9232-ND	9.88	7.51	6.80	953460-6602-AR
80	3.170 (80.5)	.169 (4.30)	.181 (4.60)	3M9233-ND	13.19	10.02	9.07	953480-6602-AR
Fig. 3 — Right Angle, Thru-Hole (Black) — 30µ" Gold — RoHS Compliant								
16	.625 (16.0)	.015 (0.38)	.310 (7.87)	3M5310-ND	5.08	3.86	3.49	150216-5002-RB
24	.940 (24.0)	.015 (0.38)	.310 (7.87)	3M5317-ND	5.74	4.37	3.95	150224-5002-RB
26	1.019 (26.0)	.015 (0.38)	.310 (7.87)	3M5320-ND	5.53	4.21	3.81	150226-5002-RB
34	1.334 (34.0)	.015 (0.38)	.310 (7.87)	3M5327-ND	5.76	4.38	3.97	150234-5002-RB
36	1.412 (36.0)	.015 (0.38)	.310 (7.87)	3M5329-ND	5.93	4.51	4.08	150236-5002-RB
40	1.570 (40.0)	.015 (0.38)	.310 (7.87)	3M5332-ND	6.12	4.65	4.21	150240-5002-RB
44	1.727 (44.0)	.015 (0.38)	.310 (7.87)	3M5334-ND	6.22	4.73	4.28	150244-5002-RB
44	1.727 (44.0)	.028 (0.71)	.310 (7.87)	3M5337-ND	6.22	4.73	4.28	150244-5202-RB
50	1.964 (50.0)	.015 (0.38)	.310 (7.87)	3M5341-ND	6.49	4.93	4.47	150250-5002-RB
50	1.964 (50.0)	.053 (1.35)	.310 (7.87)	3M5343-ND	6.49	4.93	4.47	150250-5102-RB
50	1.964 (50.0)	.028 (0.71)	.310 (7.87)	3M5345-ND	6.49	4.93	4.47	150250-5202-RB
60	2.357 (60.0)	.015 (0.38)	.310 (7.87)	3M5349-ND	6.91	5.25	4.75	150260-5002-RB
Fig. 3 — Right Angle, with Board Locator Post (Black) — 30µ" Gold — RoHS Compliant								
20	.782 (20.0)	.015 (0.38)	.310 (7.87)	3M5314-ND	5.30	4.03	3.65	150220-5022-RB
24	.940 (24.0)	.015 (0.38)	.310 (7.87)	3M5318-ND	5.74	4.37	3.95	150224-5022-RB
44	1.727 (44.0)	.015 (0.38)	.310 (7.87)	3M5335-ND	6.22	4.73	4.28	150244-5022-RB
44	1.727 (44.0)	.053 (1.35)	.310 (7.87)	3M5336-ND	6.22	4.73	4.28	150244-5122-RB
44	1.727 (44.0)	.028 (0.71)	.310 (7.87)	3M5338-ND	6.22	4.73	4.28	150244-5222-RB
50	1.964 (50.0)	.015 (0.38)	.310 (7.87)	3M5342-ND	6.49	4.93	4.47	150250-5022-RB
50	1.964 (50.0)	.053 (1.35)	.310 (7.87)	3M5344-ND	6.49	4.93	4.47	150250-5122-RB
50	1.964 (50.0)	.028 (0.71)	.310 (7.87)	3M5346-ND	6.36	4.84	4.38	150250-5222-RB
Fig. 4 — Right Angle, Thru-Hole (Black) — 10µ" Gold — RoHS Compliant								
6	.244 (6.2)	.193 (4.90)	.197 (5.00)	3M9234-ND	1.35	1.03	.93	950406-7203-AR
8	.323 (8.2)	.193 (4.90)	.197 (5.00)	3M9235-ND	1.66	1.27	1.15	950408-7203-AR
10	.402 (10.2)	.193 (4.90)	.197 (5.00)	3M9236-ND	1.98	1.51	1.36	950410-7203-AR
12	.481 (12.2)	.193 (4.90)	.197 (5.00)	3M9237-ND	2.06	1.57	1.42	950412-7203-AR
14	.559 (14.2)	.193 (4.90)	.197 (5.00)	3M9238-ND	2.31	1.76	1.59	950414-7203-AR
20	.795 (20.2)	.193 (4.90)	.197 (5.00)	3M9239-ND	3.04	2.31	2.09	950420-7203-AR
22	.874 (22.2)	.193 (4.90)	.197 (5.00)	3M9240-ND	3.37	2.56	2.32	950422-7203-AR
24	.953 (24.2)	.193 (4.90)	.197 (5.00)	3M9241-ND	3.68	2.80	2.54	950424-7203-AR
26	1.032 (26.2)	.193 (4.90)	.197 (5.00)	3M9242-ND	3.87	2.94	2.66	950426-7203-AR
30	1.189 (30.2)	.193 (4.90)	.197 (5.00)	3M9243-ND	4.47	3.40	3.08	950430-7203-AR
34	1.347 (34.2)	.193 (4.90)	.197 (5.00)	3M9244-ND	4.85	3.69	3.34	950434-7203-AR
40	1.583 (40.2)	.193 (4.90)	.197 (5.00)	3M9245-ND	5.70	4.33	3.92	950440-7203-AR
44	1.740 (44.2)	.193 (4.90)	.197 (5.00)	3M9246-ND	6.09	4.63	4.19	950444-7203-AR
50	1.976 (50.2)	.193 (4.90)	.197 (5.00)	3M9247-ND	6.93	5.27	4.77	950450-7203-AR
Fig. 5 — Right Angle, Thru-Hole (Black) — 10µ" Gold — RoHS Compliant								
4	.335 (8.5)	.110 (2.80)	.169 (4.30)	3M9248-ND	1.10	.84	.76	950404-5002-AR
6	.492 (12.5)	.110 (2.80)	.169 (4.30)	3M9249-ND	1.52	1.16	1.05	950406-5002-AR
8	.650 (16.5)	.110 (2.80)	.169 (4.30)	3M9250-ND	1.87	1.43	1.29	950408-5002-AR
10	.807 (20.5)	.110 (2.80)	.169 (4.30)	3M9251-ND	2.06	1.57	1.42	950410-5002-AR
12	.965 (24.5)	.110 (2.80)	.169 (4.30)	3M9252-ND	2.27	1.73	1.56	950412-5002-AR
14	1.122 (28.5)	.110 (2.80)	.169 (4.30)	3M9253-ND	2.41	1.84	1.66	950414-5002-AR
20	1.595 (40.5)	.110 (2.80)	.169 (4.30)	3M9254-ND	2.85	2.17	1.96	950420-5002-AR
22	1.752 (44.5)	.110 (2.80)	.169 (4.30)	3M9255-ND	3.02	2.30	2.08	950422-5002-AR
24	1.909 (48.5)	.110 (2.80)	.169 (4.30)	3M9256-ND	3.41	2.60	2.35	950424-5020-AR
26	2.067 (52.5)	.110 (2.80)	.169 (4.30)	3M9257-ND	3.70	2.82	2.55	950426-5002-AR
30	2.382 (60.5)	.110 (2.80)	.169 (4.30)	3M9258-ND	4.26	3.24	2.94	950430-5002-AR
34	2.697 (68.5)	.110 (2.80)	.169 (4.30)	3M9259-ND	4.85	3.69	3.34	950434-5002-AR
40	3.170 (80.5)	.110 (2.80)	.169 (4.30)	3M9260-ND	5.70	4.33	3.92	950440-5002-AR
44	3.485 (88.5)	.110 (2.80)	.169 (4.30)	3M9261-ND	6.26	4.76	4.31	950444-5002-AR
50	3.957 (100.5)	.110 (2.80)	.169 (4.30)	3M9262-ND	6.16	4.68	4.24	950450-5002-AR
60	4.744 (120.5)	.110 (2.80)	.169 (4.30)	3M9263-ND	7.13	5.42	4.91	950460-5002-AR
80	6.319 (160.5)	.110 (2.80)	.169 (4.30)	3M9264-ND	9.38	7.13	6.45	950480-5002-AR

† Cut Tape ◊ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

3M 2mm x 2mm Boardmount Sockets *(Cont.)*

No. of Pos.	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			3M Part No.
	A	B	C		1	100	500	
Fig. 6 — SMT Vertical (Black) — 30µ" Gold — RoHS Compliant								
4	0.156 (4.0)	.183 (4.65)	.151 (3.84)	3M5300-ND	1.08	.83	.75	150204-2000-RB
6	0.231 (6.0)	.183 (4.65)	.151 (3.84)	3M5302CT-ND†	1.29	.98	—	150206-2000-RB-WB
6	0.231 (6.0	.183 (4.65)	.151 (3.84)	3M5302TR-ND◊	709.28/800			150206-2000-RB-WB
8	0.310 (8.0)	.183 (4.65)	.151 (3.84)	3M5305-ND	1.35	1.03	.93	150208-2000-RB
20	0.782 (20.0)	.183 (4.65)	.151 (3.84)	3M5313-ND	2.00	1.52	1.38	150220-2000-RB
24	0.940 (24.0)	.183 (4.65)	.151 (3.84)	3M5315CT-ND†	2.54	1.93	—	150224-2000-RB-WD
24	0.940 (24.0)	.183 (4.65)	.151 (3.84)	3M5315TR-ND◊	1133.99/650			150224-2000-RB-WD
34	1.334 (34.0)	.183 (4.65)	.151 (3.84)	3M5326-ND	2.87	2.19	1.98	150234-2000-RB
40	1.570 (40.0)	.183 (4.65)	.151 (3.84)	3M5330-ND	2.77	2.11	1.91	150240-2000-RB
50	1.964 (50.0)	.183 (4.65)	.151 (3.84)	3M5339-ND	3.58	2.72	2.46	150250-2000-RB
Fig. 6 — SMT, Vertical with Board Locator Post (Black) — 30µ" Gold — RoHS Compliant								
12	0.467 (12.0)	.183 (4.65)	.151 (3.84)	3M5307-ND	1.83	1.40	1.26	150212-2020-RB
24	0.940 (24.0)	.183 (4.65)	.151 (3.84)	3M5316CT-ND†	2.54	1.93	—	150224-2020-RB-WD
24	0.940 (24.0)	.183 (4.65)	.151 (3.84)	3M5316TR-ND◊	1221.22/700			150224-2020-RB-WD
26	1.019 (26.0)	.183 (4.65)	.151 (3.84)	3M5319CT-ND†	2.58	1.96	—	150226-2020-RB-WD
26	1.019 (26.0)	.183 (4.65)	.151 (3.84)	3M5319TR-ND◊	1152.58/650			150226-2020-RB-WD
30	1.176 (30.0)	.183 (4.65)	.151 (3.84)	3M5323-ND	2.41	1.84	1.66	150230-2020-RB
32	1.255 (32.0)	.183 (4.65)	.151 (3.84)	3M5324-ND	2.58	1.96	1.78	150232-2020-RB
40	1.570 (40.0)	.183 (4.65)	.151 (3.84)	3M5331-ND	2.91	2.22	2.01	150240-2020-RB
44	1.727 (44.0)	.183 (4.65)	.151 (3.84)	3M5333-ND	3.08	2.34	2.12	150244-2020-RB
50	1.964 (50.0)	.183 (4.65)	.151 (3.84)	3M5340-ND	3.58	2.72	2.46	150250-2020-RB
50	1.964 (50.0)	.183 (4.65)	.151 (3.84)	3M5340CT-ND†	3.49	2.66	—	150250-2020-RB-WF
50	1.964 (50.0)	.183 (4.65)	.151 (3.84)	3M5340TR-ND◊	1561.56/650			150250-2020-RB-WF
60	2.357 (60.0)	.183 (4.65)	.151 (3.84)	3M5348-ND	4.20	3.20	2.89	150260-2020-RB
Fig. 7 — SMT Vertical Dual-Entry (Black) — 10µ" Gold — RoHS Compliant								
10	.394 (10.0)	.169 (4.30)	.158 (4.00)	3M9265CT-ND†	2.18	1.66	—	953210-2000-AR-PR
10	.394 (10.0)	.169 (4.30)	.158 (4.00)	3M9265TR-ND◊	750.75/500			953210-2000-AR-PR
12	.472 (12.0)	.169 (4.30)	.158 (4.00)	3M9266CT-ND†	1.96	1.49	—	953212-2000-AR-PR
12	.472 (12.0)	.169 (4.30)	.158 (4.00)	3M9266TR-ND◊	672.10/500			953212-2000-AR-PR
14	.551 (14.0)	.169 (4.30)	.158 (4.00)	3M9267CT-ND†	2.08	1.58	—	953214-2000-AR-PR
14	.551 (14.0)	.169 (4.30)	.158 (4.00)	3M9267TR-ND◊	715.00/500			953214-2000-AR-PR
20	.787 (20.0)	.169 (4.30)	.158 (4.00)	3M9268CT-ND†	2.25	1.71	—	953220-2000-AR-PR
20	.787 (20.0)	.169 (4.30)	.158 (4.00)	3M9268TR-ND◊	772.20/500			953220-2000-AR-PR
22	.866 (22.0)	.169 (4.30)	.158 (4.00)	3M9269CT-ND†	2.68	2.04	—	953222-2000-AR-PR
22	.866 (22.0)	.169 (4.30)	.158 (4.00)	3M9269TR-ND◊	922.35/500			953222-2000-AR-PR
24	.945 (24.0)	.169 (4.30)	.158 (4.00)	3M9270CT-ND†	2.87	2.19	—	953224-2000-AR-PR
24	.945 (24.0)	.169 (4.30)	.158 (4.00)	3M9270TR-ND◊	986.70/500			953224-2000-AR-PR
26	1.024 (26.0)	.169 (4.30)	.158 (4.00)	3M9271CT-ND†	3.06	2.33	—	953226-2000-AR-PR
26	1.024 (26.0)	.169 (4.30)	.158 (4.00)	3M9271TR-ND◊	1051.05/500			953226-2000-AR-PR
30	1.181 (30.0)	.169 (4.30)	.158 (4.00)	3M9272CT-ND†	3.22	2.45	—	953230-2000-AR-PR
30	1.181 (30.0)	.169 (4.30)	.158 (4.00)	3M9272TR-ND◊	1108.25/500			953230-2000-AR-PR
34	1.339 (34.0)	.169 (4.30)	.158 (4.00)	3M9273CT-ND†	3.62	2.75	—	953234-2000-AR-PR
34	1.339 (34.0)	.169 (4.30)	.158 (4.00)	3M9273TR-ND◊	1244.10/500			953234-2000-AR-PR
40	1.574 (40.0)	.169 (4.30)	.158 (4.00)	3M9274CT-ND†	4.18	3.18	—	953240-2000-AR-PR
40	1.574 (40.0)	.169 (4.30)	.158 (4.00)	3M9274TR-ND◊	1437.15/500			953240-2000-AR-PR
44	1.732 (44.0)	.169 (4.30)	.158 (4.00)	3M9275CT-ND†	4.83	3.67	—	953244-2000-AR-PR
44	1.732 (44.0)	.169 (4.30)	.158 (4.00)	3M9275TR-ND◊	1658.80/500			953244-2000-AR-PR
50	1.969 (50.0)	.169 (4.30)	.158 (4.00)	3M9276CT-ND†	5.45	4.14	—	953250-2000-AR-PR
50	1.969 (50.0)	.169 (4.30)	.158 (4.00)	3M9276TR-ND◊	1873.30/500			953250-2000-AR-PR
60	2.363 (60.0)	.169 (4.30)	.158 (4.00)	3M9277CT-ND†	6.28	4.78	—	953260-2000-AR-PR
60	2.363 (60.0)	.169 (4.30)	.158 (4.00)	3M9277TR-ND◊	2159.30/500			953260-2000-AR-PR
Fig. 8 — SMT Right Angle (Black) — 10µ" Gold — RoHS Compliant								
6	.244 (6.2)	.193 (4.9)	.197 (5.0)	3M9278CT-ND†	1.75	1.33	—	950406-8200-AR-TR
6	.244 (6.2)	.193 (4.9)	.197 (5.0)	3M9278TR-ND◊	600.60/500			950406-8200-AR-TR
8	.323 (8.2)	.193 (4.9)	.197 (5.0)	3M9279CT-ND†	2.10	1.60	—	950408-8200-AR-TR
8	.323 (8.2)	.193 (4.9)	.197 (5.0)	3M9279TR-ND◊	722.15/500			950408-8200-AR-TR
10	.402 (10.2)	.193 (4.9)	.197 (5.0)	3M9280CT-ND†	2.37	1.81	—	950410-8200-AR-TR
10	.402 (10.2)	.193 (4.9)	.197 (5.0)	3M9280TR-ND◊	815.10/500			950410-8200-AR-TR
12	.481 (12.2)	.193 (4.9)	.197 (5.0)	3M9281CT-ND†	2.58	1.96	—	950412-8200-AR-TR
12	.481 (12.2)	.193 (4.9)	.197 (5.0)	3M9281TR-ND◊	886.60/500			950412-8200-AR-TR
14	.559 (14.2)	.193 (4.9)	.197 (5.0)	3M9282CT-ND†	2.87	2.19	—	950414-8200-AR-TR
14	.559 (14.2)	.193 (4.9)	.197 (5.0)	3M9282TR-ND◊	986.70/500			950414-8200-AR-TR
20	.795 (20.2)	.193 (4.9)	.197 (5.0)	3M9283CT-ND†	3.14	2.39	—	950420-8200-AR-TR
20	.795 (20.2)	.193 (4.9)	.197 (5.0)	3M9283TR-ND◊	1079.65/500			950420-8200-AR-TR
22	.874 (22.2)	.193 (4.9)	.197 (5.0)	3M9284CT-ND†	3.35	2.55	—	950422-8200-AR-TR
22	.874 (22.2)	.193 (4.9)	.197 (5.0)	3M9284TR-ND◊	1151.15/500			950422-8200-AR-TR
24	.953 (24.2)	.193 (4.9)	.197 (5.0)	3M9285CT-ND†	3.74	2.85	—	950424-8200-AR-TR
24	.953 (24.2)	.193 (4.9)	.197 (5.0)	3M9285TR-ND◊	1287.00/500			950424-8200-AR-TR
26	1.032 (26.2)	.193 (4.9)	.197 (5.0)	3M9286CT-ND†	4.04	3.07	—	950426-8200-AR-TR
26	1.032 (26.2)	.193 (4.9)	.197 (5.0)	3M9286TR-ND◊	1387.10/500			950426-8200-AR-TR
30	1.189 (30.2)	.193 (4.9)	.197 (5.0)	3M9287CT-ND†	4.66	3.54	—	950430-8200-AR-TR
30	1.189 (30.2)	.193 (4.9)	.197 (5.0)	3M9287TR-ND◊	1601.60/500			950430-8200-AR-TR
34	1.347 (34.2)	.193 (4.9)	.197 (5.0)	3M9288CT-ND†	5.28	4.02	—	950434-8200-AR-TR
34	1.347 (34.2)	.193 (4.9)	.197 (5.0)	3M9288TR-ND◊	1816.10/500			950434-8200-AR-TR
40	1.583 (40.2)	.193 (4.9)	.197 (5.0)	3M9289CT-ND†	6.20	4.71	—	950440-8200-AR-TR
40	1.583 (40.2)	.193 (4.9)	.197 (5.0)	3M9289TR-ND◊	2130.70/500			950440-8200-AR-TR
44	1.740 (44.2)	.193 (4.9)	.197 (5.0)	3M9290CT-ND†	6.80	5.17	—	950444-8200-AR-TR
44	1.740 (44.2)	.193 (4.9)	.197 (5.0)	3M9290TR-ND◊	2338.05/500			950444-8200-AR-TR
50	1.976 (50.2)	.193 (4.9)	.197 (5.0)	3M9291CT-ND†	7.72	5.87	—	950450-8200-AR-TR
50	1.976 (50.2)	.193 (4.9)	.197 (5.0)	3M9291TR-ND◊	2652.65/500			950450-8200-AR-TR
Fig. 9 — SMT Vertical Bottom/Dual-Entry (Black) — 10µ" Gold — RoHS Compliant								
10	.236 (6.0)	.102 (2.80)	.165 (4.20)	3M9292CT-ND†	1.58	1.21	—	956210-2000-AR-PR
10	.236 (6.0)	.102 (2.80)	.165 (4.20)	3M9292TR-ND◊	978.12/900			956210-2000-AR-PR
12	.315 (8.0)	.102 (2.80)	.165 (4.20)	3M9293CT-ND†	1.77	1.35	—	956212-2000-AR-PR
12	.315 (8.0)	.102 (2.80)	.165 (4.20)	3M9293TR-ND◊	1093.95/900			956212-2000-AR-PR
14	.394 (10.0)	.102 (2.80)	.165 (4.20)	3M9294CT-ND†	2.00	1.52	—	956214-2000-AR-PR
14	.394 (10.0)	.102 (2.80)	.165 (4.20)	3M9294TR-ND◊	1235.52/900			956214-2000-AR-PR
20	.625 (16.0)	.102 (2.80)	.165 (4.20)	3M9295CT-ND†	2.75	2.09	—	956220-2000-AR-PR
20	.625 (16.0)	.102 (2.80)	.165 (4.20)	3M9295TR-ND◊	1698.84/900			956220-2000-AR-PR
22	.704 (18.0)	.102 (2.80)	.165 (4.20)	3M9296CT-ND†	3.18	2.42	—	956222-2000-AR-PR
22	.704 (18.0)	.102 (2.80)	.165 (4.20)	3M9296TR-ND◊	1969.11/900			956222-2000-AR-PR
24	.782 (20.0)	.102 (2.80)	.165 (4.20)	3M9297CT-ND†	3.39	2.58	—	956224-2000-AR-PR
24	.782 (20.0)	.102 (2.80)	.165 (4.20)	3M9297TR-ND◊	2097.81/900			956224-2000-AR-PR
26	.866 (22.0)	.102 (2.80)	.165 (4.20)	3M9298CT-ND†	3.70	2.82	—	956226-2000-AR-PR
26	.866 (22.0)	.102 (2.80)	.165 (4.20)	3M9298TR-ND◊	2290.86/900			956226-2000-AR-PR
30	1.024 (26.0)	.102 (2.80)	.165 (4.20)	3M9299CT-ND†	4.24	3.23	—	956230-2000-AR-PR
30	1.024 (26.0)	.102 (2.80)	.165 (4.20)	3M9299TR-ND◊	2625.48/900			956230-2000-AR-PR
34	1.181 (30.0)	.102 (2.80)	.165 (4.20)	3M9300CT-ND†	4.80	3.65	—	956234-2000-AR-PR
34	1.181 (30.0)	.102 (2.80)	.165 (4.20)	3M9300TR-ND◊	2972.97/900			956234-2000-AR-PR
40	1.418 (36.0)	.102 (2.80)	.165 (4.20)	3M9301CT-ND†	5.45	4.14	—	956240-2000-AR-PR
40	1.418 (36.0)	.102 (2.80)	.165 (4.20)	3M9301TR-ND◊	3371.94/900			956240-2000-AR-PR
44	1.575 (40.0)	.102 (2.80)	.165 (4.20)	3M9302CT-ND†	5.99	4.56	—	956244-2000-AR-PR
44	1.575 (40.0)	.102 (2.80)	.165 (4.20)	3M9302TR-ND◊	3706.56/900			956244-2000-AR-PR
50	1.812 (46.0)	.102 (2.80)	.165 (4.20)	3M9303CT-ND†	6.74	5.12	—	956250-2000-AR-PR
50	1.812 (46.0)	.102 (2.80)	.165 (4.20)	3M9303TR-ND◊	4169.88/900			956250-2000-AR-PR

† Cut Tape ◊ Tape and Reel

2mm Surface Mount Thru-Board Sockets

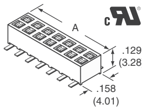

Features: • Reflow solder compatible • End stackable feature **Physical Specifications:** • Insulator material: Glass filled PCT • Flammability: UL94V-0 • Color: Black • Contact material: Copper Alloy • Underplating: 50 ~ 150µ" Nickel • Wiping area: 30µ" gold • Solder Tails: 300µ" Matte Tin **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		3M Part No.
			1	100	500	Qty.	Pricing	
4	0.156 (3.96)	3M5410-ND◊	1.33	1.02	.92	—	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.62	1.24	—	800	892.32	153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.66	1.27	—	800	915.20	153206-2000-RB-WA
14	0.546 (13.87)	3M5414CT-ND	1.96	1.49	—	800	1075.36	153214-2000-RB-WB
16	0.625 (15.88)	3M5416CT-ND	2.25	1.71	—	800	1235.52	153216-2000-RB-WB
24	0.940 (23.88)	3M5420CT-ND	2.54	1.93	—	800	1395.68	153224-2000-RB-WD
26	1.019 (25.88)	3M5422CT-ND	2.79	2.12	—	800	1532.96	153226-2000-RB-WD
Thru-Board Sockets with Board Locator Post								
8	0.310 (7.87)	3M5412-ND◊	1.39	1.06	.96	—	—	153208-2020-RB
10	0.389 (9.88)	3M5413-ND◊	1.54	1.17	1.06	—	—	153210-2020-RB
14	0.546 (13.87)	3M5415-ND◊	1.77	1.35	1.22	—	—	153214-2020-RB
16	0.625 (15.88)	3M5417CT-ND	1.96	1.49	—	800	1075.36	153216-2020-RB-WB
20	0.782 (19.86)	3M5418CT-ND	2.39	1.82	—	800	1315.60	153220-2020-RB-WC
22	0.861 (21.87)	3M5419CT-ND	2.39	1.82	—	800	1315.60	153222-2020-RB-WD
24	0.940 (23.88)	3M5421-ND◊	2.25	1.71	1.55	—	—	153224-2020-RB
26	1.019 (25.88)	3M5423CT-ND	2.79	2.12	—	800	1532.96	153226-2020-RB-WD
30	1.176 (29.87)	3M5424-ND◊	3.00	2.28	2.06	—	—	153230-2020-RB
36	1.412 (35.86)	3M5426-ND◊	3.04	2.31	2.09	—	—	153236-2020-RB
40	1.570 (39.88)	3M5427-ND◊	3.33	2.53	2.29	—	—	153240-2020-RB
44	1.727 (43.87)	3M5429-ND◊	3.60	2.74	2.48	—	—	153244-2020-RB
50	1.964 (49.89)	3M5431CT-ND	3.95	3.01	—	700	1901.90	153250-2020-RB-WF
56	2.200 (55.88)	3M5432-ND◊	4.62	3.51	3.18	—	—	153256-2020-RB
60	2.357 (59.87)	3M5433-ND◊	4.91	3.73	3.38	—	—	153260-2020-RB

† For Tape and Reel part number, change CT-ND to TR-ND. ◊ Bulk

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

3M 2mm Wiremount Sockets

2mm Wiremount Socket – 1mm Pitch Cable: **Features:** • Industry standard compatible • Mates with 2.0mm x 2.0mm grid pin strips • Low profile • Preassembled covers • Available with and without strain relief **Physical Specifications:** • **Insulation Material:** Glass Filled Polyester (PBT), Flammability: UL94 V-0 • **Color:** Gray • **Contact Material:** Copper Alloy • **Contact Plating:** • Underplate and U-slot: 50-150µ" Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C **Electrical Specifications:** • Current Rating: 1 Amp • Insulation Resistance: >1x10^{9}Ω at 500VDC • Withstanding Voltage: 1000Vrms at Sea Level **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 105°C **Rating:** UL File No. E68080

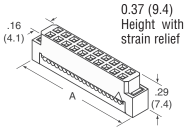

1.0mm Round Conductor Flat Cable – 28AWG Stranded, PVC: **Physical Specifications:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray • Marking: Red Edge • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper **Electrical Specifications:** • Voltage Rating: 300V **Environmental Specifications:** • Operating Temperature Rating -20°C ~ 105°C • Flammability Rating: UL: VW-1, CSA: FT1 **Rating:** UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional)

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
IDC Sockets Gold						
10	.59 (15.0)	MSA10A-ND	4.43	257.40	1001.00	152210-0100-GB
12	.67 (17.0)	MSA12A-ND	4.50	261.00	1015.00	152212-0100-GB
20	.99 (25.1)	MSA20A-ND	6.20	360.00	1400.00	152220-0100-GB
26	1.22 (31.0)	MSA26A-ND	5.92	343.80	1337.00	152226-0100-GB
40	1.77 (45.0)	MSA40A-ND	6.20	360.00	1400.00	152240-0100-GB
44	1.93 (49.0)	MSA44A-ND	6.36	369.00	1435.00	152244-0100-GB
50	2.17 (55.0)	MSA50A-ND	6.48	376.20	1463.00	152250-0100-GB
IDC Sockets Gold with Strain Relief						
10	.59 (15.0)	MSE10A-ND	5.15	298.80	1162.00	152210-0103-GB
12	.67 (17.0)	MSE12A-ND	5.43	315.00	1225.00	152212-0103-GB
20	.99 (25.1)	MSE20A-ND	5.36	311.40	1211.00	152220-0103-GB
26	1.22 (31.0)	MSE26A-ND	6.70	388.80	1512.00	152226-0103-GB
40	1.77 (45.0)	MSE40A-ND	6.82	396.00	1540.00	122240-0103-GB
44	1.93 (49.0)	MSE44A-ND	7.16	415.80	1617.00	152244-0103-GB
50	2.17 (55.0)	MSE50A-ND	7.29	423.00	1645.00	152250-0103-GB
IDC Sockets Gold, with Center Polarizing Bump						
10	.59 (15.0)	MTA10A-ND	4.43	257.40	1001.00	152210-0110-GB
12	.67 (17.0)	MTA12A-ND	4.50	261.00	1015.00	152212-0110-GB
20	.99 (25.1)	MTA20A-ND	4.93	286.20	1113.00	152220-0110-GB
26	1.22 (31.0)	MTA26A-ND	5.92	343.80	1337.00	152226-0110-GB
40	1.77 (45.0)	MTA40A-ND	6.08	352.80	1372.00	152240-0110-GB
44	1.93 (49.0)	MTA44A-ND	6.36	369.00	1435.00	152244-0110-GB
50	2.17 (55.0)	MTA50A-ND	6.48	376.20	1463.00	152250-0110-GB
IDC Sockets Gold, with Center Polarizing Bump, with Strain Relief						
10	.59 (15.0)	MTE10A-ND	5.15	298.80	1162.00	152210-0113-GB
12	.67 (17.0)	MTE12A-ND	5.43	315.00	1225.00	152212-0113-GB
20	.99 (25.1)	MTE20A-ND	7.60	441.00	1715.00	152220-0113-GB
26	1.22 (31.0)	MTE26A-ND	6.70	388.80	1512.00	152226-0113-GB
40	1.77 (45.0)	MTE40A-ND	8.90	516.60	2009.00	152240-0113-GB
44	1.93 (49.0)	MTE44A-ND	7.16	415.80	1617.00	152244-0113-GB
50	2.17 (55.0)	MTE50A-ND	7.29	423.00	1645.00	152250-0113-GB
Strain Reliefs						
10	—	MMMR10-ND	.83	63.20	286.00	3448-152210
12	—	MMMR12-ND	.83	63.20	286.00	3448-152212
20	—	MMMR20-ND	1.08	82.16	371.80	3448-152220
26	—	MMMR26-ND	1.02	77.42	350.35	3448-152226
40	—	MMMR40-ND	.94	71.10	321.75	3448-152240
44	—	MMMR44-ND	1.02	77.42	350.35	3448-152244
50	—	MMMR50-ND	1.08	82.16	371.80	3448-152250
Keying plug (Strip of 10)		MMMR01-ND	2.08	158.00	715.00	3435-152200
Tooling						
Bench Press Assembly Tool		3M9426-ND	451.13	—	—	3640
Cable Shear for 3640		3M9427-ND	1386.00	—	—	3320
Tool Platen Assembly		3M9433-ND	96.75	—	—	3442-9
Locator Plate 1522 Series		3M9445-ND	752.76	—	—	3443-118

No. of Pos.	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Meters) Price Per Meters					3M Part No.
		5	10	25	50	100	
Ribbon Cable Gray (1mm Pitch)							
10	MC10L-X-ND	7.78	14.46	32.25	55.60	88.96	3625/10 100M
12	MC12L-X-ND	9.34	17.35	38.70	66.73	106.76	3625/12 100M
44	MC44L-X-ND	34.25	63.61	141.90	244.66	391.46	3625/44 100M
50	MC50L-X-ND	38.92	72.29	161.25	278.03	444.84	3625/50 100M

100m reel quantity may contain splices. Splice position will be marked on the reel.

2mm Headers

Physical Specifications: • Insulation Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Underplating: 1.25-2.5µm (100µ") Nickel • Wiping Area: 0.25µm (10µ") Gold • Solder Tail Area: 1-3µm (40-118µ") Matte Tin **Electrical Specifications:** • Current Rating: 1 Amp • Withstanding Voltage: 1000VDC **Environmental Specifications:** • Temperature Range: -40°C ~ 105°C • Processing Temperature: Max. 260°C (Profile per J-STD-020C)

Dimensions in mm

Fig. 1

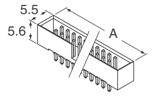

Fig. 2

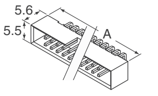

Fig. 3

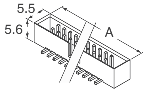

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
			1	100	500	
Fig. 1 — Vertical Thru-Hole						
10	0.677 (17.2)	3M6474-ND	1.71	1.30	1.18	957210-6002-AR
12	0.756 (19.2)	3M6475-ND	1.75	1.33	1.21	957212-6002-AR
20	1.07 (27.2)	3M6476-ND	1.98	1.51	1.36	957220-6002-AR
26	1.31 (33.2)	3M6477-ND	2.35	1.79	1.62	957226-6002-AR
40	1.86 (47.2)	3M6478-ND	3.60	2.74	2.48	957240-6002-AR
44	2.02 (51.2)	3M6479-ND	3.95	3.01	2.72	957244-6002-AR
50	2.25 (57.2)	3M6480-ND	4.49	3.42	3.09	957250-6002-AR
Fig. 2 — Right Angle Thru-Hole						
10	0.677 (17.2)	3M6481-ND	1.87	1.43	1.29	957210-5002-AR
12	0.756 (19.2)	3M6482-ND	1.93	1.47	1.33	957212-5002-AR
20	1.07 (27.2)	3M6483-ND	2.16	1.65	1.49	957220-5002-AR
26	1.31 (33.2)	3M6484-ND	2.58	1.96	1.78	957226-5002-AR
40	1.86 (47.2)	3M6485-ND	3.95	3.01	2.72	957240-5002-AR
44	2.02 (51.2)	3M6486-ND	4.35	3.31	2.99	957244-5002-AR
50	2.25 (57.2)	3M6487-ND	4.93	3.75	3.39	957250-5002-AR
Fig. 3 — Vertical Surface Mount						
10	0.677 (17.2)	3M6488-ND	2.06	1.57	1.42	957210-2000-AR-TP
12	0.756 (19.2)	3M6489-ND	2.10	1.60	1.45	957212-2000-AR-TP
20	1.07 (27.2)	3M6490-ND	2.37	1.81	1.64	957220-2000-AR-TP
26	1.31 (33.2)	3M6491-ND	2.81	2.14	1.94	957226-2000-AR-TP
40	1.86 (47.2)	3M6492-ND	4.31	3.28	2.97	957240-2000-AR-TP
44	2.02 (51.2)	3M6493-ND	4.74	3.61	3.27	957244-2000-AR-TP
50	2.25 (57.2)	3M6494-ND	5.39	4.10	3.71	957250-2000-AR-TP

2mm Latch / Eject Headers

Features: • Latch/Eject mechanism maintains a secure connection • Roll pins retain latches to body in shipping and high vibration environments • Ejector helps make removal of assemblies easy • Latch design helps resist breakage during eject • High temperature insulators suitable for lead free processing and meet JEDEC J-STD-020C
Specifications: • Insulator Material: Glass filled Polyester (PCT) • Flammability: UL94V-0 • Contact Material: Copper Alloy • Underplating: 50µ" (1.27µm) Nickel • Wiping area: 30µ" (0.76µm) Gold • Solder Tails: 200µ" (5.0µm) Matte Tin • Color: Black • Current Rating: 1 Amp • Temperature Rating: -55°C ~ 105°C

Dimensions in Inches (mm)

Fig. 1

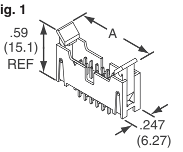

Fig. 2

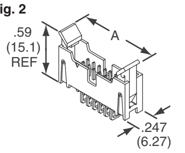

Fig. 3

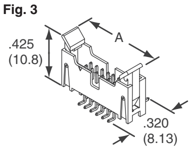

No. of Contacts	Dimension A Inch (mm)	Solder Tail Length Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
				1	100	500	
Fig. 1 — Vertical Thru-Hole							
10	.83 (21.1)	.112 (2.84)	3M5082-ND	4.60	3.50	3.17	155210-6302-RB
10	.83 (21.1)	.155 (3.94)	3M5083-ND	4.60	3.50	3.17	155210-6303-RB
12	.91 (23.1)	.112 (2.84)	3M5087-ND	3.87	2.94	2.66	155212-6302-RB
12	.91 (23.1)	.155 (3.94)	3M5088-ND	3.87	2.94	2.66	155212-6303-RB
20	1.22 (31.09)	.112 (2.84)	3M5092-ND	5.32	4.05	3.67	155220-6302-RB
20	1.22 (31.09)	.155 (3.94)	3M5093-ND	5.32	4.05	3.67	155220-6303-RB
26	1.46 (37.1)	.112 (2.84)	3M5097-ND	6.28	4.78	4.32	155226-6302-RB
26	1.46 (37.1)	.155 (3.94)	3M5098-ND	6.28	4.78	4.32	155226-6303-RB
40	2.01 (51.1)	.112 (2.84)	3M5102-ND	9.65	7.34	6.64	155240-6302-RB
40	2.01 (51.1)	.155 (3.94)	3M5103-ND	9.65	7.34	6.64	155240-6303-RB
44	2.17 (55.09)	.112 (2.84)	3M5107-ND	10.61	8.06	7.30	155244-6302-RB
44	2.17 (55.09)	.155 (3.94)	3M5108-ND	10.61	8.06	7.30	155244-6303-RB
50	2.41 (61.09)	.112 (2.84)	3M5112-ND	12.06	9.17	8.30	155250-6302-RB
50	2.41 (61.09)	.155 (3.94)	3M5113-ND	12.06	9.17	8.30	155250-6303-RB
Fig. 2 — Right Angle							
10	.83 (21.1)	.112 (2.84)	3M5080-ND	5.05	3.84	3.48	155210-5302-RB
10	.83 (21.1)	.155 (3.94)	3M5081-ND	5.05	3.84	3.48	155210-5303-RB
12	.91 (23.1)	.112 (2.84)	3M5085-ND	4.14	3.15	2.85	155212-5302-RB
12	.91 (23.1)	.155 (3.94)	3M5086-ND	4.14	3.15	2.85	155212-5303-RB
20	1.22 (31.09)	.112 (2.84)	3M5090-ND	5.87	4.46	4.04	155220-5302-RB
20	1.22 (31.09)	.155 (3.94)	3M5091-ND	5.87	4.46	4.04	155220-5303-RB
26	1.46 (37.1)	.112 (2.84)	3M5095-ND	6.93	5.27	4.77	155226-5302-RB
26	1.46 (37.1)	.155 (3.94)	3M5096-ND	6.93	5.27	4.77	155226-5303-RB
40	2.01 (51.1)	.112 (2.84)	3M5100-ND	10.65	8.09	7.33	155240-5302-RB
40	2.01 (51.1)	.155 (3.94)	3M5101-ND	10.65	8.09	7.33	155240-5303-RB
44	2.17 (55.09)	.112 (2.84)	3M5105-ND	11.71	8.90	8.06	155244-5302-RB
44	2.17 (55.09)	.155 (3.94)	3M5106-ND	11.71	8.90	8.06	155244-5303-RB
50	2.41 (61.09)	.112 (2.84)	3M5110-ND	13.31	10.12	9.16	155250-5302-RB
50	2.41 (61.09)	.155 (3.94)	3M5111-ND	13.31	10.12	9.16	155250-5303-RB
Fig. 3 — Vertical Surface Mount							
10	.83 (21.1)	—	3M5079-ND	5.97	4.54	4.11	155210-2300-RB
12	.91 (23.1)	—	3M5084-ND	4.91	3.73	3.38	155212-2300-RB
20	1.22 (31.09)	—	3M5089-ND	6.91	5.25	4.75	155220-2300-RB
26	1.46 (37.1)	—	3M5094-ND	8.17	6.21	5.62	155226-2300-RB
40	2.01 (51.1)	—	3M5099-ND	12.56	9.55	8.64	155240-2300-RB
44	2.17 (55.09)	—	3M5104-ND	13.81	10.50	9.50	155244-2300-RB
50	2.41 (61.09)	—	3M5109-ND	15.70	11.93	10.80	155250-2300-RB

Shielded Controlled Impedance Cable Assembly 2mm Latch/Eject Development Kit

Development Kit Components: • SCI 2mm differential and single-ended cable assemblies (coax and twinax) • 2x25 SMT or through-hole 2mm latch/eject headers • 2x25 carrier to bundle the SCI cable assemblies • Optional PCB with SMAs for testing • CD-ROM containing technical application note, test instruction sheet and product technical data sheets **Features:** • 1Gbps single-ended, 5Gbps differential or mix and match cable-to-board solution • Robust latching for mechanically challenging environments • Low crosstalk and skew • Upgrade to higher speed and better crosstalk for molded and IDC cable assemblies • High density-2mm pitch-upgrade from 0.100" **Applications:** • Embedded computing systems • Military and avionics test systems • Bench top analytical tools (data acquisition) • Medical imaging systems • Embedded control systems • Machine vision systems

Description	Digi-Key Part No.	Price Each	3M Part No.
Kit with SMT Header, without PCB	3M9416-ND	89.99	9401
Kit with Through-hole Header, without PCB	3M9418-ND	89.99	9403
Kit with Through-hole Header, with PCB	3M9419-ND	269.99	9404

3M 2mm Mini-Clamp Plugs and Sockets

Features: • Easy, labor saving and reliable IDC termination • Easy field termination with no special wire preparation - no stripping, tinning, or special tooling • Mating latches provide a reliable interconnection in demanding applications • High number of mating cycles (300)
Physical Specifications: • Body Material: thermoplastic or nylon • Flammability: UL 94V-0 • Underplating: 100μ" (2.54μm) nickel • Wiping area: 8μ" (0.2μm) minimum gold with lubricant **Electrical Specifications:** • Current Rating: 3A • Voltage Rating: 32V • Temperature Range: -20°C ~ 85°C

Fig. 1 – Wiremount Plug

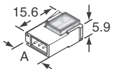

No. of Pos.	Dim. A mm
3	12.9
4	14.9

Fig. 2 – Wiremount Socket

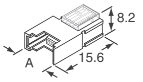

No. of Pos.	Dim. A mm
3 (with latch)	13.8
3 (w/o latch)	23.4
4 (w/o latch)	15.8
4 (with latch)	25.4

Fig. 3 – Boardmount Plug, Single Row

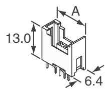

No. of Pos.	Dim. A mm
3	13.8
4	15.8

Fig. 4 – Boardmount Socket, Single Row

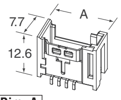

No. of Pos.	Dim. A mm
3	13.8
4	15.8

Fig. 5 – Boardmount Plug, Multiple Row

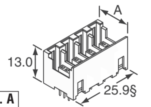

No. of Pos.	Dim. A mm
3	13.8
4	15.8

§ 3M5716 Dim. = 12.9

Fig. 6 – Wiremount Plug Multiple Row

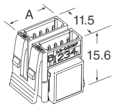

No. of Pos.	Dim. A mm
6 (3 x 2)	10.4
8 (4 x 2)	12.4

Fig. 7 – Wiremount Socket, Multiple Row

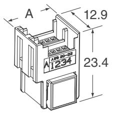

No. of Pos.	Dim. A mm
6 (3 x 2)	11.5
8 (4 x 2)	13.5

Fig.	No. of Pos.	AWG	Wire Insul. Dia. - mm	Cover Color	Digi-Key Part No.	Price Each 1	25	50	3M Part No.
1	3	20 ~ 24	1.0 ~ 1.2	Green	3M9003-ND	2.21	2.06	1.92	37103-A124-00E MB
	3	20 ~ 24	1.2 ~ 1.6	Blue	3M9004-ND	2.21	2.06	1.92	37103-A165-00E MB
	3	20 ~ 24	1.6 ~ 2.0	Gray	3M9005-ND	2.21	2.06	1.92	37103-A206-00E MB
	3	24 ~ 26	0.8 ~ 1.0	Red	3M9006-ND	2.21	2.06	1.92	37103-B101-00E MB
	3	24 ~ 26	1.0 ~ 1.2	Yellow	3M9007-ND	2.21	2.06	1.92	37103-B122-00E MB
	3	24 ~ 26	1.2 ~ 1.6	Orange	3M9008-ND	2.21	2.06	1.92	37103-B163-00E MB
	4	20 ~ 24	1.0 ~ 1.2	Green	3M9009-ND	2.61	2.44	2.27	37104-A124-00E MB
	4	20 ~ 24	1.2 ~ 1.6	Blue	3M9010-ND	2.61	2.44	2.27	37104-A165-00E MB
	4	20 ~ 24	1.6 ~ 2.0	Gray	3M9011-ND	2.61	2.44	2.27	37104-A206-00E MB
	4	24 ~ 26	0.8 ~ 1.0	Red	3M9012-ND	2.61	2.44	2.27	37104-B101-00E MB
	4	24 ~ 26	1.0 ~ 1.2	Yellow	3M9013-ND	2.61	2.44	2.27	37104-B122-00E MB
	4	24 ~ 26	1.2 ~ 1.6	Orange	3M9014-ND	2.61	2.44	2.27	37104-B163-00E MB
2	3	20 ~ 24	1.0 ~ 1.2	Green	3M9015-ND	2.34	2.19	2.03	37303-A124-00E MB
	3	20 ~ 24	1.0 ~ 1.2	Green	3M9016-ND†	2.45	2.29	2.13	37303-A124-0PE MB
	3	20 ~ 24	1.2 ~ 1.6	Blue	3M9017-ND	2.34	2.19	2.03	37303-A165-00E MB
	3	20 ~ 24	1.2 ~ 1.6	Blue	3M9018-ND†	2.45	2.29	2.13	37303-A165-0PE MB
	3	20 ~ 24	1.6 ~ 2.0	Gray	3M9019-ND	2.34	2.19	2.03	37303-A206-00E MB
	3	20 ~ 24	1.6 ~ 2.0	Gray	3M9020-ND†	2.45	2.29	2.13	37303-A206-0PE MB
	3	24 ~ 26	0.8 ~ 1.0	Red	3M9021-ND	2.34	2.19	2.03	37303-B101-00E MB
	3	24 ~ 26	0.8 ~ 1.0	Red	3M9022-ND†	2.45	2.29	2.13	37303-B101-0PE MB
	3	24 ~ 26	1.0 ~ 1.2	Yellow	3M9023-ND	2.34	2.19	2.03	37303-B122-00E MB
	3	24 ~ 26	1.0 ~ 1.2	Yellow	3M9024-ND†	2.45	2.29	2.13	37303-B122-0PE MB
	3	24 ~ 26	1.2 ~ 1.6	Orange	3M9025-ND	2.34	2.19	2.03	37303-B163-00E MB
	3	24 ~ 26	1.2 ~ 1.6	Orange	3M9026-ND†	2.45	2.29	2.13	37303-B163-0PE MB
	4	20 ~ 24	1.0 ~ 1.2	Green	3M9027-ND	2.84	2.65	2.46	37304-A124-00E MB
	4	20 ~ 24	1.0 ~ 1.2	Green	3M9028-ND†	2.93	2.73	2.54	37304-A124-0PE MB
	4	20 ~ 24	1.2 ~ 1.6	Blue	3M9029-ND	2.84	2.65	2.46	37304-A165-00E MB
	4	20 ~ 24	1.2 ~ 1.6	Blue	3M9030-ND†	2.93	2.73	2.54	37304-A165-0PE MB
	4	20 ~ 24	1.6 ~ 2.0	Gray	3M9031-ND	2.84	2.65	2.46	37304-A206-00E MB
	4	20 ~ 24	1.6 ~ 2.0	Gray	3M9032-ND†	2.93	2.73	2.54	37304-A206-0PE MB
	4	24 ~ 26	0.8 ~ 1.0	Red	3M9033-ND	2.84	2.65	2.46	37304-B101-00E MB
	4	24 ~ 26	0.8 ~ 1.0	Red	3M9034-ND†	2.93	2.73	2.54	37304-B101-0PE MB
	4	24 ~ 26	1.0 ~ 1.2	Yellow	3M9035-ND	2.84	2.65	2.46	37304-B122-00E MB
	4	24 ~ 26	1.0 ~ 1.2	Yellow	3M9036-ND†	2.93	2.73	2.54	37304-B122-0PE MB
	4	24 ~ 26	1.2 ~ 1.6	Orange	3M9037-ND	2.84	2.65	2.46	37304-B163-00E MB
	4	24 ~ 26	1.2 ~ 1.6	Orange	3M9038-ND†	2.93	2.73	2.54	37304-B163-0PE MB
3	3	—	—	—	3M5700-ND‡	1.46	1.37	1.27	37203-62A3-003PL
	3	—	—	—	3M5701-ND‡	1.46	1.37	1.27	37203-62B3-003PL
	4	—	—	—	3M5702-ND‡	1.67	1.56	1.45	37204-62A3-004PL
	4	—	—	—	3M5703-ND‡	1.67	1.56	1.45	37204-62B3-004PL
4	3	—	—	—	3M99808-ND	1.89	1.77	1.64	37203-12E0-003 PL
	3	—	—	—	3M99809-ND	1.89	1.77	1.64	37203-1AE0-003 PL
	3	—	—	—	3M99810-ND	1.89	1.77	1.64	37203-1BE0-003 PL
	4	—	—	—	3M99811-ND	2.09	1.96	1.82	37204-12E0-004 PL
	4	—	—	—	3M99812-ND	2.09	1.96	1.82	37204-1AE0-004 PL
	4	—	—	—	3M99813-ND	2.09	1.96	1.82	37204-1BE0-004 PL
5	4	—	—	—	3M5716-ND‡§	2.86	2.67	2.48	37208-62A3-004PL
	3	—	—	—	3M5717-ND‡	2.93	2.73	2.54	37212-62M3-003PL
	4	—	—	—	3M5718-ND‡	3.35	3.13	2.91	37216-62M3-004PL
6	6	20 ~ 22	1.0 ~ 1.2	Green	3M99814-ND	3.76	3.51	3.26	37106-2124-0W0 FL
	6	20 ~ 22	1.2 ~ 1.6	Blue	3M99815-ND	3.76	3.51	3.26	37106-2165-0W0 FL
	6	20 ~ 22	1.6 ~ 2.0	Gray	3M99816-ND	3.76	3.51	3.26	37106-2206-0W0 FL
	6	24 ~ 26	0.8 ~ 1.0	Red	3M99817-ND	3.76	3.51	3.26	37106-3101-0W0 FL
	6	24 ~ 26	1.0 ~ 1.2	Yellow	3M99818-ND	3.76	3.51	3.26	37106-3122-0W0 FL
	6	24 ~ 26	1.2 ~ 1.6	Orange	3M99819-ND	3.76	3.51	3.26	37106-3163-0W0 FL
	8	20 ~ 22	1.0 ~ 1.2	Green	3M99820-ND	4.46	4.16	3.87	37108-2124-0W0 FL
	8	20 ~ 22	1.2 ~ 1.6	Blue	3M99821-ND	4.46	4.16	3.87	37108-2165-0W0 FL
	8	20 ~ 22	1.6 ~ 2.0	Gray	3M99822-ND	4.46	4.16	3.87	37108-2206-0W0 FL
	8	24 ~ 26	0.8 ~ 1.0	Red	3M99823-ND	4.46	4.16	3.87	37108-3101-0W0 FL
	8	24 ~ 26	1.0 ~ 1.2	Yellow	3M99824-ND	4.46	4.16	3.87	37108-3122-0W0 FL
	8	24 ~ 26	1.2 ~ 1.6	Orange	3M99825-ND	4.46	4.16	3.87	37108-3163-0W0 FL
7	6	20 ~ 22	1.0 ~ 1.62	Green	3M99826-ND	3.98	3.72	3.46	37306-2124-0W0 FL
	6	20 ~ 22	1.2 ~ 1.6	Blue	3M99827-ND	3.98	3.72	3.46	37306-2165-0W0 FL
	6	20 ~ 22	1.6 ~ 2.0	Gray	3M99828-ND	3.98	3.72	3.46	37306-2206-0W0 FL
	6	24 ~ 26	0.8 ~ 1.0	Red	3M99829-ND	3.98	3.72	3.46	37306-3101-0W0 FL
	6	24 ~ 26	1.0 ~ 1.62	Yellow	3M99830-ND	3.98	3.72	3.46	37306-3122-0W0 FL
	6	24 ~ 26	1.2 ~ 1.6	Orange	3M99831-ND	3.98	3.72	3.46	37306-3163-0W0 FL
	8	20 ~ 22	1.0 ~ 1.62	Green	3M99832-ND	4.82	4.50	4.18	37308-2124-0W0 FL
	8	20 ~ 22	1.2 ~ 1.6	Blue	3M99833-ND	4.82	4.50	4.18	37308-2165-0W0 FL
	8	20 ~ 22	1.6 ~ 2.0	Gray	3M99834-ND	4.82	4.50	4.18	37308-2206-0W0 FL
	8	24 ~ 26	0.8 ~ 1.0	Red	3M99835-ND	4.82	4.50	4.18	37308-3101-0W0 FL
	8	24 ~ 26	1.0 ~ 1.62	Yellow	3M99836-ND	4.82	4.50	4.18	37308-3122-0W0 FL
	8	24 ~ 26	1.2 ~ 1.6	Orange	3M99837-ND	4.82	4.50	4.18	37308-3163-0W0 FL

† With Latch ‡ See Digi-Key website for PCB footprint type

NEW! 3mm Power Clamps

Features: • CC-Link Communication Interconnect Standard • One-Touch latching mechanism maintains a reliable interconnection in demanding field applications and requires only one hand to easily mate and unmate • Polarization ensures proper interconnecting of mated pairs **Physical Specifications:** • Flammability: UL 94V-0 • Contact Material: Copper alloy • Underplating: 2.5μm Ni minimum • Wiping Area: 0.5μm Au minimum **Electrical Specifications:** • Current Rating: 18AWG: 10A (1 contact); 7A (2 - 5 contacts) 20AWG: 9A (1 contact); 6A (2 - 5 contacts) • Voltage Rating: 250V • Temperature Range: -20°C ~ 75°C ambient

355 Series: Wiremount Sockets
Features: • Easy, labor saving, and reliable IDC termination • Easy field termination with no special tooling or wire preparation - no stripping or tinning • Semi-Transparent color-coded covers for wire inspection and wire retention **Physical Specifications:** • Body Material: Nylon • Cover Material: Polycarbonate • IDC Termination Area: 2.5μm Ni minimum

356 Series: Right Angle Headers
Features: • Accepts one or two Power Clamp Wiremount Sockets • Accepts Branch and Terminator Connectors • End to end stackable at 25.4mm pitch on PCB • Integrated press fit board retention pins retain the connector to the board during wave soldering • Keyed to prevent reverse insertion of sockets **Physical Specifications:** • Body Material: PBT • Solder Tails: Au Flash

357 Series: Branch Adapter Connectors
Features: • 35715-L010-A00AK branch interconnect takes two inputs and splits it into one output • 35720-L200-A00AK branch interconnect takes two inputs and splits it into two outputs • Latching clip retains the Branch Connector to the header **Physical Specifications:** • Body and Latch Material: PBT

358 Series: Wiremount Plugs
Features: • Easy, labor saving, and reliable IDC termination • Easy field termination with no special tooling or wire preparation - no stripping or tinning • Semi-Transparent color-coded covers for wire inspection and wire retention • Integrated Dust Cover also provides secure locking mechanism when mated to Wiremount Socket • Quick Insertion Panel Mount option **Physical Specifications:** • Body Material: Nylon • Cover Material: Polycarbonate • IDC Termination Area: 2.5μm minimum

Fig. 1 Wiremount Socket

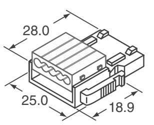

Fig. 2 Right Angle Header

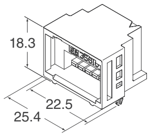

Fig. 3 Right Angle Header

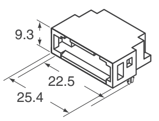

Fig. 4 Right Angle Header

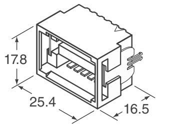

Fig. 5 Branch Adapter Connector

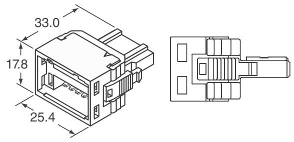

Fig. 6 Branch Adapter Connector

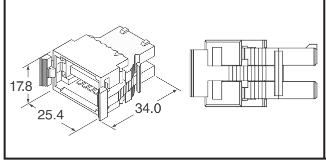

Fig. 7 Wiremount Plug

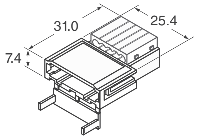

Fig.	AWG	Wire Outside Dia. - mm	Cover Color	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
1	18	2.2 ~ 3.0	Clear	3M9653-ND	5.22	4.40	3.97	35505-6080-A00GF
	18	2.0 ~ 2.3	Blue	3M9654-ND	5.22	4.40	3.97	35505-6180-A00GF
	20	1.6 ~ 2.0	Yellow	3M9655-ND	5.22	4.40	3.97	35505-6200-A00GF
2	—	—	—	3M9645-ND	4.85	4.08	3.69	35610-5253-A00PE
3	—	—	—	3M9656-ND	3.10	2.61	2.36	35605-5153-A00PE
	—	—	—	3M9657-ND	3.10	2.61	2.36	35605-5153-AP0PE
	—	—	—	3M9658-ND	2.70	2.28	2.06	35605-6114-A00PE
4	—	—	—	3M9659-ND	4.43	3.73	3.37	35610-6224-A00PE
5	—	—	—	3M9646-ND	6.20	5.22	4.71	35715-L010-A00AK
6	—	—	—	3M9660-ND	6.97	5.87	5.30	35720-L200-A00AK
7	18	2.2 ~ 3.0	Clear	3M9647-ND	4.26	3.59	3.24	35805-6080-A00GF
	18	2.2 ~ 3.0	Clear	3M9648-ND§	4.26	3.59	3.24	35805-6080-AP0GF
	18	2.0 ~ 2.3	Blue	3M9649-ND	4.26	3.59	3.24	35805-6180-A00GF
	18	2.0 ~ 2.3	Blue	3M9650-ND§	4.26	3.59	3.24	35805-6180-AP0GF
	20	1.6 ~ 2.0	Yellow	3M9651-ND	4.26	3.59	3.24	35805-6200-A00GF
	20	1.6 ~ 2.0	Yellow	3M9652-ND§	4.26	3.59	3.24	35805-6200-AP0GF

§ Panel Mount

CHG Series .100” Wiremount Sockets

Features: • Twin slot IDC provides four points of contact • Exclusive L/H 4-wipe contact • 3435-0 keying plug is optional • Accepts discrete wire or notched ribbon cable **Single Row Features:** • One row, side-to-side stackable • Mates to 3M one row pin strip headers **Double Row Features:** • Military/DIN 41612 compatibility • Two row, polarized body • Mates to 3M long latch/eject headers and plugs

Specifications: Physical Specifications: • Insulation Material: Glass Filled Polyester (PBT) • Insulation Flammability: UL 94V-0 • Insulation Color: Gray • Contact Material: Copper Alloy • Plating Wipe Area: 30µ” (0.76µm) Gold • Underplating and U-Slot: 100µ” (2.54µm) Nickel **Electrical Specifications:** • Current Rating: 22-24 AWG: 2A; 26-28 AWG: 1.5A • Insulation Resistance: >1x10⁹Ω at 500VDC • Withstanding Voltage: 1000 VRMS at Sea Level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C

Fig. 1

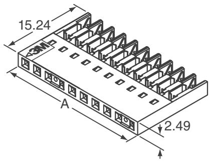

Fig. 2

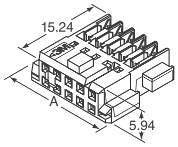

Fig.	No. of Positions	Dim. A mm	AWG	Digi-Key Part No.	Price Each 1	25	50	3M Part No.
Single Row								
1	2	5.72	26 ~ 28	3M9064-ND	2.63	2.46	2.29	CHG-1002-001010-KCP
	2	5.72	22 ~ 24	3M9065-ND	2.63	2.46	2.29	CHG-1002-001010-KEP
	3	8.26	26 ~ 28	3M9066-ND	2.79	2.61	2.42	CHG-1003-001010-KCP
	3	8.26	22 ~ 24	3M9067-ND	2.79	2.61	2.42	CHG-1003-001010-KEP
	4	10.80	26 ~ 28	3M9068-ND	2.93	2.73	2.54	CHG-1004-001010-KCP
	4	10.80	22 ~ 24	3M9069-ND	2.93	2.73	2.54	CHG-1004-001010-KEP
	5	13.34	26 ~ 28	3M9070-ND	3.06	2.86	2.66	CHG-1005-001010-KCP
	5	13.34	22 ~ 24	3M9071-ND	3.06	2.86	2.66	CHG-1005-001010-KEP
	6	15.88	26 ~ 28	3M9072-ND	3.17	2.97	2.75	CHG-1006-001010-KCP
	6	15.88	22 ~ 24	3M9073-ND	2.97	2.78	2.58	CHG-1006-001010-KEP
	7	18.42	26 ~ 28	3M9074-ND	3.69	3.45	3.20	CHG-1007-001010-KCP
	7	18.42	22 ~ 24	3M9075-ND	3.69	3.45	3.20	CHG-1007-001010-KEP
	8	20.96	26 ~ 28	3M9076-ND	4.23	3.95	3.67	CHG-1008-001010-KCP
	8	20.96	22 ~ 24	3M9077-ND	4.23	3.95	3.67	CHG-1008-001010-KEP
	9	23.50	26 ~ 28	3M9078-ND	3.76	3.51	3.26	CHG-1009-001010-KCP
	9	23.50	22 ~ 24	3M9079-ND	4.16	3.89	3.61	CHG-1009-001010-KEP
	10	26.04	26 ~ 28	3M9080-ND	3.53	3.30	3.07	CHG-1010-001010-KCP
	10	26.04	22 ~ 24	3M9081-ND	3.89	3.64	3.38	CHG-1010-001010-KEP
	14	36.20	26 ~ 28	3M9082-ND	4.03	3.76	3.50	CHG-1014-001010-KCP
	14	36.20	22 ~ 24	3M9083-ND	4.03	3.76	3.50	CHG-1014-001010-KEP
Double Row								
2	6	12.19	26 ~ 28	3M9057-ND	3.56	3.32	3.09	CHG-2006-001010-KCP
	6	12.19	22 ~ 24	3M9084-ND	3.17	2.97	2.75	CHG-2006-001010-KEP
	10	17.27	26 ~ 28	3M9085-ND	3.53	3.30	3.07	CHG-2010-001010-KCP
	10	17.27	22 ~ 24	3M9086-ND	3.53	3.30	3.07	CHG-2010-001010-KEP
	10	17.27	26 ~ 28	3M9087-ND▲	3.53	3.30	3.07	CHG-2010-J01010-KCP
	10	17.27	22 ~ 24	3M9088-ND▲	3.53	3.30	3.07	CHG-2010-J01010-KEP
	14	22.35	26 ~ 28	3M9089-ND	6.37	5.95	5.52	CHG-2014-001010-KCP
	14	22.35	22 ~ 24	3M9090-ND	4.93	4.60	4.28	CHG-2014-001010-KEP
	14	22.35	26 ~ 28	3M9091-ND▲	4.93	4.60	4.28	CHG-2014-J01010-KCP
	14	22.35	22 ~ 24	3M9092-ND▲	4.93	4.60	4.28	CHG-2014-J01010-KEP
	16	24.89	26 ~ 28	3M9058-ND	4.82	4.50	4.18	CHG-2016-001010-KCP
	16	24.89	22 ~ 24	3M9093-ND	4.57	4.27	3.96	CHG-2016-001010-KEP
	16	24.89	26 ~ 28	3M9094-ND▲	4.57	4.27	3.96	CHG-2016-J01010-KCP
	16	24.89	22 ~ 24	3M9095-ND▲	4.57	4.27	3.96	CHG-2016-J01010-KEP
	20	29.97	26 ~ 28	3M9096-ND	5.29	4.94	4.59	CHG-2020-001010-KCP
	20	29.97	22 ~ 24	3M9097-ND	5.29	4.94	4.59	CHG-2020-001010-KEP
	20	29.97	26 ~ 28	3M9098-ND▲	5.29	4.94	4.59	CHG-2020-J01010-KCP
	20	29.97	22 ~ 24	3M9099-ND▲	5.29	4.94	4.59	CHG-2020-J01010-KEP
	24	35.05	26 ~ 28	3M9059-ND▲	6.48	6.05	5.62	CHG-2024-J01010-KCP
	24	35.05	22 ~ 24	3M9100-ND▲	6.35	5.93	5.50	CHG-2024-J01010-KEP
	26	37.59	26 ~ 28	3M9101-ND	6.89	6.43	5.97	CHG-2026-001010-KCP
	26	37.59	22 ~ 24	3M9102-ND	6.89	6.43	5.97	CHG-2026-001010-KEP
	26	37.59	26 ~ 28	3M9103-ND▲	6.89	6.43	5.97	CHG-2026-J01010-KCP
	26	37.59	22 ~ 24	3M9104-ND▲	6.89	6.43	5.97	CHG-2026-J01010-KEP
	30	42.68	26 ~ 28	3M9105-ND	6.62	6.18	5.74	CHG-2030-001010-KCP
	30	42.68	22 ~ 24	3M9106-ND	6.62	6.18	5.74	CHG-2030-001010-KEP
	30	42.68	26 ~ 28	3M9107-ND▲	6.62	6.18	5.74	CHG-2030-J01010-KCP
	30	42.68	22 ~ 24	3M9108-ND▲	6.62	6.18	5.74	CHG-2030-J01010-KEP
	34	47.75	26 ~ 28	3M9109-ND	6.77	6.33	5.87	CHG-2034-001010-KCP
	34	47.75	22 ~ 24	3M9110-ND	7.49	7.00	6.50	CHG-2034-001010-KEP
	34	47.75	26 ~ 28	3M9111-ND▲	7.49	7.00	6.50	CHG-2034-J01010-KCP
	34	47.75	22 ~ 24	3M9112-ND▲	7.49	7.00	6.50	CHG-2034-J01010-KEP
	40	55.37	26 ~ 28	3M9113-ND	7.99	7.46	6.93	CHG-2040-001010-KCP
	40	55.37	22 ~ 24	3M9114-ND	7.92	7.40	6.87	CHG-2040-001010-KEP
	40	55.37	26 ~ 28	3M9115-ND▲	7.92	7.40	6.87	CHG-2040-J01010-KCP
	40	55.37	22 ~ 24	3M9116-ND▲	7.92	7.40	6.87	CHG-2040-J01010-KEP
	50	68.07	26 ~ 28	3M9060-ND	9.27	8.66	8.04	CHG-2050-001010-KCP
	50	68.07	22 ~ 24	3M9117-ND	8.80	8.22	7.63	CHG-2050-001010-KEP
	50	68.07	26 ~ 28	3M9118-ND▲	8.80	8.22	7.63	CHG-2050-J01010-KCP
	50	68.07	22 ~ 24	3M9119-ND▲	8.80	8.22	7.63	CHG-2050-J01010-KEP
	60	80.77	26 ~ 28	3M9120-ND▲	10.58	9.87	9.17	CHG-2060-J01010-KCP
	60	80.77	22 ~ 24	3M9121-ND▲	10.58	9.87	9.17	CHG-2060-J01010-KEP
	64	85.85	26 ~ 28	3M9061-ND	18.16	16.95	15.74	CHG-2064-001010-KCP
	64	85.85	22 ~ 24	3M9062-ND	11.30	10.55	9.79	CHG-2064-001010-KEP
	64	85.85	26 ~ 28	3M9063-ND▲	10.94	10.21	9.48	CHG-2064-J01010-KCP
	64	85.85	22 ~ 24	3M9122-ND▲	11.30	10.55	9.79	CHG-2064-J01010-KEP

▲ Center Polarizing Bump

Tools

Description	Digi-Key Part No.	Price Each	3M Part No.
3435-0 Keying Plug	3M9123-ND	.09	3435-0
Universal Pistol Grip	3M9124-ND	127.50	3586-12
Assembly Head, AWG 22 ~ 28, 1 and 2 Row	3M9126-ND	860.76	3624-41
Assembly Head, AWG 22 ~ 28, 2 Row	3M9125-ND	859.37	3624-42

Note: Universal Pistol Grip and Assembly Head to be used together.

Stacking Header Connectors .100" (2.54mm) — 96X Series

3M Board-to-Board Stacking Connector, 96X Series provides a high quality, .100" (2.54mm) economical solution that utilizes a ten micro inch gold wiping area. The specifications and package make them ideal for usage in high volume applications with less stringent requirements for the number of mating cycles and medium length life span. The product range is qualified in accordance with European requirements for IEC performance, class three.

Meets EU RoHS compliance and is labeled pursuant to China RoHS marking standard SJ/T 11364-2006.

Specifications: Physical: • Material: High temperature thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy Plating: • Underplating: 1.25 ~ 2.5 µm (50 ~ 100 µ") Nickel • Wiping Area: 0.25 µm (10µ") Gold Solder Tail Area: 1 ~ 3 µm (40 ~ 118 µ") Matte Tin **Electrical:** • Current Rating: 2A • Insulation Resistance: >5 x 10⁸Ω @ 100VDC **Environmental:** • Temperature Range: -25°C ~ 105°C • Processing Temperature: maximum 260°C (Profile per J-STD-020C)

Fig. 1

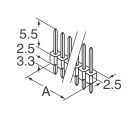

Fig. 2

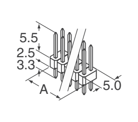

Fig. 3

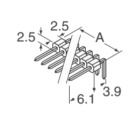

Fig. 4

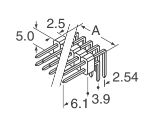

Fig. 5

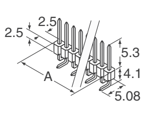

Fig. 6

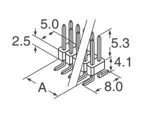

Fig. 7

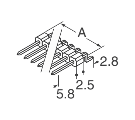

Fig. 8

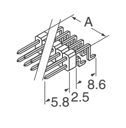

Fig.	No. of Positions	Dim. A Inches (mm)	Digi-Key Part No.	Pricing 1	10	100	3M Part No.
Single Row, Straight, Thru-Hole							
1	2	0.2 (5.08)	3M9447-ND	.09	.77	6.30	961102-6404-AR
	3	0.3 (7.62)	3M9448-ND	.14	1.28	10.50	961103-6404-AR
	4	0.4 (10.16)	3M9449-ND	.17	1.53	12.60	961104-6404-AR
	5	0.5 (12.7)	3M9450-ND	.23	2.04	16.80	961105-6404-AR
	6	0.6 (15.24)	3M9451-ND	.26	2.30	18.90	961106-6404-AR
	8	0.8 (20.32)	3M9452-ND	.37	3.32	27.30	961108-6404-AR
	14	1.4 (35.56)	3M9453-ND	.63	5.61	46.20	961114-6404-AR
	16	1.6 (40.64)	3M9454-ND	.71	6.38	52.50	961116-6404-AR
	20	2.0 (50.80)	3M9455-ND	.88	7.91	65.10	961120-6404-AR
	25	2.5 (63.50)	3M9456-ND	1.11	9.95	81.90	961125-6404-AR
	36	3.6 (91.44)	3M9457-ND	1.62	14.54	119.70	961136-6404-AR
Dual Row, Straight, Thru-Hole							
2	4	0.4 (10.16)	3M9458-ND	.17	1.53	12.60	961204-6404-AR
	6	0.6 (15.24)	3M9459-ND	.26	2.30	18.90	961206-6404-AR
	10	1.0 (25.4)	3M9460-ND	.46	4.08	33.60	961210-6404-AR
	16	1.6 (40.64)	3M9461-ND	.71	6.38	52.50	961216-6404-AR
	18	1.8 (45.72)	3M9462-ND	.80	7.14	58.80	961218-6404-AR
	24	2.4 (60.96)	3M9463-ND	1.08	9.69	79.80	961224-6404-AR
	30	3.0 (76.2)	3M9464-ND	1.34	11.99	98.70	961230-6404-AR
	40	4.0 (101.6)	3M9465-ND	1.80	16.07	132.30	961240-6404-AR
	72	7.2 (182.88)	3M9466-ND	3.22	28.82	237.30	961272-6404-AR
Single Row, Right Angle, Thru-Hole							
3	2	0.2 (5.08)	3M9467-ND	.11	1.02	8.40	961102-5604-AR
	3	0.3 (7.62)	3M9468-ND	.17	1.53	12.60	961103-5604-AR
	4	0.4 (10.16)	3M9469-ND	.20	1.79	14.70	961104-5604-AR
	5	0.5 (12.7)	3M9470-ND	.26	2.30	18.90	961105-5604-AR
	6	0.6 (15.24)	3M9471-ND	.31	2.81	23.10	961106-5604-AR
	8	0.8 (20.32)	3M9472-ND	.43	3.83	31.50	961108-5604-AR
	14	1.4 (35.56)	3M9473-ND	.74	6.63	54.60	961114-5604-AR
	16	1.6 (40.64)	3M9474-ND	.83	7.40	60.90	961116-5604-AR
	20	2.0 (50.80)	3M9475-ND	1.05	9.44	77.70	961120-5604-AR
	25	2.5 (63.50)	3M9476-ND	1.31	11.73	96.60	961125-5604-AR
	36	3.6 (91.44)	3M9477-ND	1.88	16.83	138.60	961136-5604-AR
Dual Row, Right Angle, Thru-Hole							
4	4	0.4 (10.16)	3M9478-ND	.20	1.79	14.70	961204-5604-AR
	6	0.6 (15.24)	3M9479-ND	.31	2.81	23.10	961206-5604-AR
	10	1.0 (25.4)	3M9480-ND	.51	4.59	37.80	961210-5604-AR
	16	1.6 (40.64)	3M9481-ND	.83	7.40	60.90	961216-5604-AR
	18	1.8 (45.72)	3M9482-ND	.94	8.42	69.30	961218-5604-AR
	24	2.4 (60.96)	3M9483-ND	1.25	11.22	92.40	961224-5604-AR
	30	3.0 (76.2)	3M9484-ND	1.57	14.03	115.50	961230-5604-AR
	40	4.0 (101.6)	3M9485-ND	2.08	18.62	153.30	961240-5604-AR
	72	7.2 (182.88)	3M9486-ND	3.76	33.66	277.20	961272-5604-AR
Single Row, Straight, Surface Mount							
5	5	0.5 (12.7)	3M9487CT-ND†	1.23	10.97	90.30	961105-6300-AR-PR
	5	0.5 (12.7)	3M9487TR-ND‡		249.83/350		961105-6300-AR-PR
	6	0.6 (15.24)	3M9488CT-ND†	1.34	11.99	98.70	961106-6300-AR-PR
	6	0.6 (15.24)	3M9488TR-ND‡		273.07/350		961106-6300-AR-PR
	8	0.8 (20.32)	3M9489CT-ND†	1.60	14.28	117.60	961108-6300-AR-PR
	8	0.8 (20.32)	3M9489TR-ND‡		325.36/350		961108-6300-AR-PR
	14	1.4 (35.56)	3M9490CT-ND†	2.34	20.91	172.20	961114-6300-AR-PR
	14	1.4 (35.56)	3M9490TR-ND‡		476.42/350		961114-6300-AR-PR
	16	1.6 (40.64)	3M9491CT-ND†	2.59	23.21	191.10	961116-6300-AR-PR
	16	1.6 (40.64)	3M9491TR-ND‡		528.71/350		961116-6300-AR-PR
	20	2.0 (50.80)	3M9492CT-ND†	3.11	27.80	228.90	961120-6300-AR-PR
	20	2.0 (50.80)	3M9492TR-ND‡		633.29/350		961120-6300-AR-PR
	25	2.5 (63.50)	3M9493CT-ND†	3.62	32.39	266.70	961125-6300-AR-PR
	25	2.5 (63.50)	3M9493TR-ND‡		737.87/350		961125-6300-AR-PR

† Cut Tape ‡ Tape and Reel

(Continued)

3M Stacking Header Connectors .100" (2.54mm) — 96X Series *(Cont.)*

Fig.	No. of Positions	Dim. A Inches (mm)	Digi-Key Part No.	Pricing 1	10	100	3M Part No.
Dual Row, Straight, Surface Mount							
6	10	1.0 (25.4)	3M9494CT-ND†	1.88	16.83	138.60	961210-6300-AR-PR
	10	1.0 (25.4)	3M9494TR-ND‡	383.46/350			961210-6300-AR-PR
	16	1.6 (40.64)	3M9495CT-ND†	2.59	23.21	191.10	961216-6300-AR-PR
	16	1.6 (40.64)	3M9495TR-ND‡	528.71/350			961216-6300-AR-PR
	18	1.8 (45.72)	3M9496CT-ND†	2.85	25.50	210.00	961218-6300-AR-PR
	18	1.8 (45.72)	3M9496TR-ND‡	581.00/350			961218-6300-AR-PR
	24	2.4 (60.96)	3M9497CT-ND†	3.62	32.39	266.70	961224-6300-AR-PR
	24	2.4 (60.96)	3M9497TR-ND‡	737.87/350			961224-6300-AR-PR
	30	3.0 (76.2)	3M9498CT-ND†	4.39	39.27	323.40	961230-6300-AR-PR
	30	3.0 (76.2)	3M9498TR-ND‡	894.74/350			961230-6300-AR-PR
	40	4.0 (101.6)	3M9499CT-ND†	5.47	48.96	403.20	961240-6300-AR-PR
	40	4.0 (101.6)	3M9499TR-ND‡	1115.52/350			961240-6300-AR-PR
Single Row, Right Angle, Surface Mount							
7	5	0.5 (12.7)	3M9500CT-ND†	1.65	14.79	121.80	961105-5500-AR-PR
	5	0.5 (12.7)	3M9500TR-ND‡	481.40/500			961105-5500-AR-PR
	6	0.6 (15.24)	3M9501CT-ND†	1.80	16.07	132.30	961106-5500-AR-PR
	6	0.6 (15.24)	3M9501TR-ND‡	522.90/500			961106-5500-AR-PR
	8	0.8 (20.32)	3M9502CT-ND†	2.08	18.62	153.30	961108-5500-AR-PR
	8	0.8 (20.32)	3M9502TR-ND‡	605.90/500			961108-5500-AR-PR
	14	1.4 (35.56)	3M9503CT-ND†	2.85	25.50	210.00	961114-5500-AR-PR
	14	1.4 (35.56)	3M9503TR-ND‡	830.00/500			961114-5500-AR-PR
	16	1.6 (40.64)	3M9504CT-ND†	3.14	28.05	231.00	961116-5500-AR-PR
	16	1.6 (40.64)	3M9504TR-ND‡	913.00/500			961116-5500-AR-PR
	20	2.0 (50.80)	3M9505CT-ND†	3.71	33.15	273.00	961120-5500-AR-PR
	20	2.0 (50.80)	3M9505TR-ND‡	1079.00/500			961120-5500-AR-PR
	25	2.5 (63.50)	3M9506CT-ND†	4.42	39.53	325.50	961125-5500-AR-PR
	25	2.5 (63.50)	3M9506TR-ND‡	1286.50/500			961125-5500-AR-PR
Dual Row, Right Angle, Surface Mount							
8	10	1.0 (25.4)	3M9507CT-ND†	2.82	25.25	207.90	961210-5500-AR-PR
	10	1.0 (25.4)	3M9507TR-ND‡	493.02/300			961210-5500-AR-PR
	16	1.6 (40.64)	3M9508CT-ND†	3.96	35.45	291.90	961216-5500-AR-PR
	16	1.6 (40.64)	3M9508TR-ND‡	692.22/300			961216-5500-AR-PR
	18	1.8 (45.72)	3M9509CT-ND†	4.33	38.76	319.20	961218-5500-AR-PR
	18	1.8 (45.72)	3M9509TR-ND‡	756.96/300			961218-5500-AR-PR
	24	2.4 (60.96)	3M9510CT-ND†	5.39	48.20	396.90	961224-5500-AR-PR
	24	2.4 (60.96)	3M9510TR-ND‡	941.22/300			961224-5500-AR-PR
	30	3.0 (76.2)	3M9511CT-ND†	6.53	58.40	480.90	961230-5500-AR-PR
	30	3.0 (76.2)	3M9511TR-ND‡	1140.42/300			961230-5500-AR-PR
	40	4.0 (101.6)	3M9512CT-ND†	8.41	75.23	619.50	961240-5500-AR-PR
	40	4.0 (101.6)	3M9512TR-ND‡	1469.10/300			961240-5500-AR-PR
Shunt							
Shunt Jumper .1"			3M9580-ND	.06	.51	4.20	969102-0000-DA

† Cut Tape ‡ Tape and Reel

Stacking Socket Connectors .100" (2.54mm) — 96X Series

3M Board-to-Board Stacking Connector, 96X Series provides a high quality, economical solution that utilizes a ten micro inch gold wiping area. The specifications and package make them ideal for usage in high volume applications with less stringent requirements for the number of mating cycles and medium length life span. The product range is qualified in accordance with European requirements for IEC performance, class three.

Meets EU RoHS compliance and is labeled pursuant to China RoHS marking standard SJ/T 11364-2006.

Specifications: Physical: • Material: High temperature thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy Plating: • Underplating: 1.25 ~ 2.5 µm (50 ~ 100 µ") Nickel • Wiping Area: 0.25 µm (10µ") Gold Solder Tail Area: 1 ~ 3 µm (40 ~ 118 µ") Matte Tin **Electrical:** • Current Rating: 2A • Insulation Resistance: >5 x 10^8Ω @ 100VDC **Environmental:** • Temperature Range: -25°C ~ 105°C • Processing Temperature: maximum 260°C (Profile per J-STD-020C)

Fig. 1

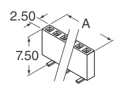

Fig. 2

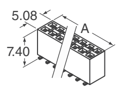

Fig. 3

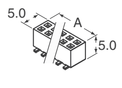

Fig. 4

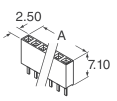

Fig. 5

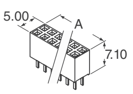

Fig. 6

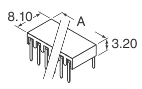

Fig. 7

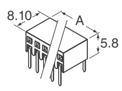

Fig. 8

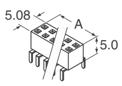

Fig.	No. of Positions	Dim. A Inches (mm)	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
Single Row, Dual Entry, Surface Mount							
1	4	0.4 (10.16)	3M9558CT-ND†	1.43	1.28	1.05	963104-2000-AR-PR
	4	0.4 (10.16)	3M9558TR-ND‡	498.00/600			963104-2000-AR-PR
	5	0.5 (12.7)	3M9559CT-ND†	1.65	1.48	1.22	963105-2000-AR-PR
	5	0.5 (12.7)	3M9559TR-ND‡	577.68/600			963105-2000-AR-PR
	6	0.6 (15.24)	3M9560CT-ND†	1.88	1.69	1.39	963106-2000-AR-PR
	6	0.6 (15.24)	3M9560TR-ND‡	657.36/600			963106-2000-AR-PR
1	8	0.8 (20.32)	3M9561CT-ND†	2.11	1.89	1.56	963108-2000-AR-PR
	8	0.8 (20.32)	3M9561TR-ND‡	737.04/600			963108-2000-AR-PR
	14	1.4 (35.56)	3M9562CT-ND†	3.02	2.71	2.23	963114-2000-AR-PR
	14	1.4 (35.56)	3M9562TR-ND‡	1055.76/600			963114-2000-AR-PR
	16	1.6 (40.64)	3M9563CT-ND†	3.14	2.81	2.31	963116-2000-AR-PR
	16	1.6 (40.64)	3M9563TR-ND‡	1095.60/600			963116-2000-AR-PR
	20	2.0 (50.80)	3M9564CT-ND†	3.79	3.40	2.80	963120-2000-AR-PR
	20	2.0 (50.80)	3M9564TR-ND‡	1324.68/600			963120-2000-AR-PR
	25	2.5 (63.50)	3M9565CT-ND†	4.59	4.11	3.39	963125-2000-AR-PR
	25	2.5 (63.50)	3M9565TR-ND‡	1603.56/600			963125-2000-AR-PR
Dual Row, Surface Mount							
2	10	1.0 (25.4)	3M9566CT-ND†	2.79	2.50	2.06	963210-2000-AR-PR
	10	1.0 (25.4)	3M9566TR-ND‡	569.38/350			963210-2000-AR-PR
	16	1.6 (40.64)	3M9567CT-ND†	3.76	3.37	2.78	963216-2000-AR-PR
	16	1.6 (40.64)	3M9567TR-ND‡	766.92/350			963216-2000-AR-PR
	18	1.8 (45.72)	3M9568CT-ND†	4.16	3.73	3.07	963218-2000-AR-PR
	18	1.8 (45.72)	3M9568TR-ND‡	848.26/350			963218-2000-AR-PR
	24	2.4 (60.96)	3M9569CT-ND†	4.42	3.96	3.26	963224-2000-AR-PR
	24	2.4 (60.96)	3M9569TR-ND‡	900.55/350			963224-2000-AR-PR
	30	3.0 (76.2)	3M9570CT-ND†	5.36	4.80	3.95	963230-2000-AR-PR
	30	3.0 (76.2)	3M9570TR-ND‡	1092.28/350			963230-2000-AR-PR
	40	2.0 (50.80)	3M9571CT-ND†	6.98	6.25	5.15	963240-2000-AR-PR
	40	2.0 (50.80)	3M9571TR-ND‡	1423.45/350			963240-2000-AR-PR
Dual Row, Low Profile, Surface Mount							
3	4	0.4 (10.16)	3M9572CT-ND†	1.40	1.25	1.03	966204-2000-AR-PR
	4	0.4 (10.16)	3M9572TR-ND‡	528.71/650			966204-2000-AR-PR
	6	0.6 (15.24)	3M9573CT-ND†	1.80	1.61	1.33	966206-2000-AR-PR
	6	0.6 (15.24)	3M9573TR-ND‡	679.77/650			966206-2000-AR-PR
	10	1.0 (25.4)	3M9574CT-ND†	2.39	2.15	1.77	966210-2000-AR-PR
	10	1.0 (25.4)	3M9574TR-ND‡	906.36/650			966210-2000-AR-PR
	16	1.6 (40.64)	3M9575CT-ND†	3.51	3.14	2.59	966216-2000-AR-PR
	16	1.6 (40.64)	3M9575TR-ND‡	1327.17/650			966216-2000-AR-PR
	18	1.8 (45.72)	3M9576CT-ND†	3.88	3.47	2.86	966218-2000-AR-PR
	18	1.8 (45.72)	3M9576TR-ND‡	1467.44/650			966218-2000-AR-PR
	24	2.4 (60.96)	3M9577CT-ND†	4.96	4.44	3.66	966224-2000-AR-PR
	24	2.4 (60.96)	3M9577TR-ND‡	1877.46/650			966224-2000-AR-PR
	30	3.0 (76.2)	3M9578CT-ND†	6.07	5.44	4.48	966230-2000-AR-PR
	30	3.0 (76.2)	3M9578TR-ND‡	2298.27/650			966230-2000-AR-PR
	40	4.0 (101.6)	3M9579CT-ND†	7.52	6.74	5.55	966240-2000-AR-PR
	40	4.0 (101.6)	3M9579TR-ND‡	2848.56/650			966240-2000-AR-PR
Single Row, Straight, Thru-Hole							
4	2	0.2 (5.08)	3M9513-ND	.46	.41	.34	960102-6202-AR
	3	0.3 (7.62)	3M9514-ND	.57	.51	.42	960103-6202-AR
	4	0.4 (10.16)	3M9515-ND	.74	.67	.55	960104-6202-AR
	5	0.5 (12.7)	3M9516-ND	.94	.85	.70	960105-6202-AR
	6	0.6 (15.24)	3M9517-ND	1.08	.97	.80	960106-6202-AR
	8	0.8 (20.32)	3M9518-ND	1.45	1.31	1.08	960108-6202-AR
	14	1.4 (35.56)	3M9519-ND	2.39	2.15	1.77	960114-6202-AR
	16	1.6 (40.64)	3M9520-ND	2.45	2.20	1.81	960116-6202-AR
	20	2.0 (50.80)	3M9521-ND	3.08	2.76	2.27	960120-6202-AR
	25	2.5 (63.50)	3M9522-ND	3.85	3.45	2.84	960125-6202-AR
	36	3.6 (91.44)	3M9523-ND	5.53	4.95	4.08	960136-6202-AR
Dual Row, Straight, Thru-Hole							
5	4	0.4 (10.16)	3M9524-ND	.91	.82	.68	960204-6202-AR
	6	0.6 (15.24)	3M9525-ND	1.14	1.02	.84	960206-6202-AR
	10	1.0 (25.4)	3M9526-ND	1.80	1.61	1.33	960210-6202-AR
	16	1.6 (40.64)	3M9527-ND	2.74	2.45	2.02	960216-6202-AR
	18	1.8 (45.72)	3M9528-ND	3.25	2.91	2.40	960218-6202-AR
	24	2.4 (60.96)	3M9529-ND	3.71	3.32	2.73	960224-6202-AR
	30	3.0 (76.2)	3M9530-ND	4.62	4.14	3.41	960230-6202-AR
	40	4.0 (101.6)	3M9531-ND	6.16	5.51	4.54	960240-6202-AR
	72	7.2 (182.8)	3M9532-ND	11.09	9.92	8.17	960272-6202-AR
Single Row, Right Angle, Thru-Hole							
6	4	0.4 (10.16)	3M9533-ND	.86	.77	.63	960104-7102-AR
	5	0.5 (12.7)	3M9534-ND	1.05	.95	.78	960105-7102-AR
	6	0.6 (15.24)	3M9535-ND	1.28	1.15	.95	960106-7102-AR
	8	0.8 (20.32)	3M9536-ND	1.68	1.51	1.24	960108-7102-AR
	14	1.4 (35.56)	3M9537-ND	2.65	2.38	1.96	960114-7102-AR
	16	1.6 (40.64)	3M9538-ND	3.02	2.71	2.23	960116-7102-AR
	20	2.0 (50.80)	3M9539-ND	3.79	3.40	2.80	960120-7102-AR
	25	2.5 (63.50)	3M9540-ND	4.22	3.78	3.11	960125-7102-AR
	36	3.6 (91.44)	3M9541-ND	6.07	5.44	4.48	960136-7102-AR
Dual Row, Right Angle, Thru-Hole							
7	10	1.0 (25.4)	3M9542-ND	2.39	2.15	1.77	960210-7102-AR
	16	1.6 (40.68)	3M9543-ND	3.45	3.09	2.55	960216-7102-AR
	18	1.8 (45.72)	3M9544-ND	3.65	3.27	2.69	960218-7102-AR
	24	2.4 (60.96)	3M9545-ND	4.42	3.96	3.26	960224-7102-AR
	30	3.0 (76.2)	3M9546-ND	5.53	4.95	4.08	960230-7102-AR
	40	4.0 (101.6)	3M9547-ND	7.10	6.35	5.23	960240-7102-AR
	72	7.2 (182.8)	3M9548-ND	11.80	10.56	8.70	960272-7102-AR
Dual Row, Straight, Thru-Hole							
8	4	0.4 (10.16)	3M9549-ND	.74	.67	.55	966204-6702-AR
	6	0.6 (15.24)	3M9550-ND	1.11	1.00	.82	966206-6702-AR
	10	1.0 (25.4)	3M9551-ND	1.77	1.59	1.31	966210-6702-AR
	16	1.6 (40.64)	3M9552-ND	2.71	2.43	2.00	966216-6702-AR
	18	1.8 (45.72)	3M9553-ND	2.91	2.61	2.15	966218-6702-AR
	24	2.4 (60.96)	3M9554-ND	3.88	3.47	2.86	966224-6702-AR
	30	3.0 (76.2)	3M9555-ND	4.59	4.11	3.39	966230-6702-AR
	40	4.0 (101.6)	3M9556-ND	6.13	5.49	4.52	966240-6702-AR
	72	7.2 (182.8)	3M9557-ND	11.00	9.85	8.11	966272-6702-AR

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

3M Board Mount Interconnect Products

929 Series: • Material: Glass filled polyester (PBT) • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Withstanding Voltage: 1500Vrms • Temperature Rating: -40°C ~ 105°C • UL File No. E68080 **Plating Options:** • 10μ" gold, 100μ" tin-lead or 200μ" matte tin

Fig. 1 – Straight, Single Row Male

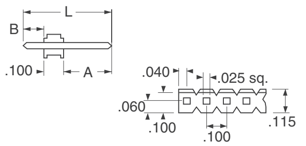

Fig. 2 – Straight, Dual Row Male (.1" x .1" Matrix)

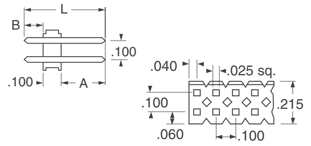

Fig. 3 – Right Angle, Single Row Male

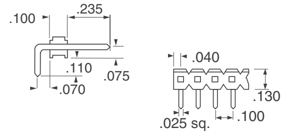

Fig. 4 – Right Angle, Dual Row Male (.1" x .1" Matrix)

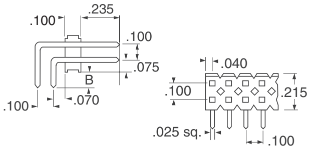

Fig. 5 – Right Angle, Single Row Polarized Male

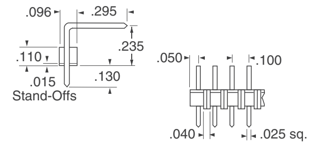

Fig. 6 – Straight, Single Row Female

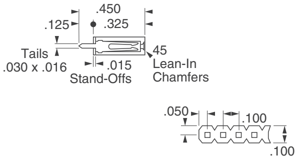

Fig. 7 – Straight, Dual Row Female (.1" x .1" Matrix)

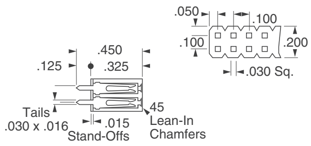

Fig. 8 – Shorting Jumpers

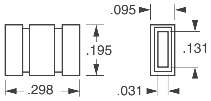

36 Pin Headers

Fig.	Plat-ing	No. of Pins	Dimensions (Inch) L	A	B	Digi-Key Part No.	Price Each 1	10	100
Straight, Single Row Male									
1	Tin	36	.445	.235	.110	929834E-01-36-ND◆ ***NEW!***	1.51	1.36	1.12
	Solder	36	.545	.235	.210	929834-02-36-ND	2.08	1.87	1.54
	Tin	36	.545	.235	.210	929834E-02-36-ND◆	1.80	1.61	1.33
	Solder	36	.745	.235	.410	929834-03-36-ND	2.51	2.25	1.85
	Tin	36	.745	.235	.410	929834E-03-36-ND◆	2.17	1.94	1.60
	Solder	36	.845	.235	.510	929834-04-36-ND	2.79	2.50	2.06
	Tin	36	.845	.235	.510	929834E-04-36-ND◆	2.39	2.15	1.77
	Solder	36	.945	.235	.610	929834-05-36-ND	2.82	2.53	2.08
	Tin	36	.945	.235	.610	929834E-05-36-ND◆	2.42	2.17	1.79
	Solder	36	1.245	.235	.910	929834-07-36-ND	3.28	2.94	2.42
	Gold	36	.445	.235	.110	929647E-01-36-ND◆ ***NEW!***	4.47	4.01	3.30
	Gold	36	.480	.235	.145	929647-09-36-ND◆	3.82	3.42	2.82
	Gold	36	.545	.235	.210	929647-02-36-ND◆	4.96	4.44	3.66
	Gold	36	.745	.235	.410	929647-03-36-ND◆	7.92	7.09	5.84
	Gold	36	.845	.235	.510	929647-04-36-ND◆	7.87	7.04	5.80
	Gold	36	.945	.235	.610	929647-05-36-ND◆	7.67	6.86	5.65
	Gold	36	1.245	.235	.910	929647-07-36-ND◆	9.86	8.83	7.27
	Solder	36	.535	.295	.130	929400-01-36-ND	2.08	1.87	1.54
	Tin	36	.535	.295	.130	929400E-01-36-ND◆	1.80	1.61	1.33
	Gold	36	.535	.295	.130	929450-01-36-ND◆	4.85	4.34	3.57
Straight, Dual Row Male									
2	Tin	72	.445	.235	.110	929836E-01-36-ND◆ ***NEW!***	2.76	2.48	2.04
	Solder	72	.480	.235	.145	929836-09-36-ND	4.05	3.63	2.99
	Tin	72	.480	.235	.145	929836E-09-36-ND◆	3.39	3.04	2.50
	Tin	72	.545	.235	.210	929836E-02-36-ND◆	2.94	2.63	2.17
	Solder	72	.645	.235	.310	929836-08-36-ND	5.19	4.65	3.83
	Tin	72	.645	.235	.310	929836E-08-36-ND◆	3.79	3.40	2.80
	Tin	72	.745	.235	.410	929836E-03-36-ND◆	3.51	3.14	2.59
	Tin	72	.845	.235	.510	929836E-04-36-ND◆	3.88	3.47	2.86
	Solder	72	.945	.235	.610	929836-05-36-ND	5.13	4.59	3.78
	Tin	72	.945	.235	.610	929836E-05-36-ND◆	3.68	3.29	2.71
	Gold	72	.445	.235	.110	929665E-01-36-ND◆ ***NEW!***	7.52	6.74	5.55
	Gold	72	.480	.235	.145	929665-09-36-ND◆	8.78	7.86	6.47
	Gold	72	.545	.235	.210	929665-02-36-ND◆	9.66	8.65	7.12
	Gold	72	.645	.235	.310	929665-08-36-ND◆	10.72	9.59	7.90
	Gold	72	.745	.235	.410	929665-03-36-ND◆	12.31	11.02	9.08
	Gold	72	.845	.235	.510	929665-04-36-ND◆	15.28	13.67	11.26
	Gold	72	.945	.235	.610	929665-05-36-ND◆	19.12	17.12	14.10
	Solder	72	.593	.318	.175	929710-10-36-ND	4.25	3.80	3.13
	Tin	72	.593	.318	.175	929710E-10-36-ND◆	3.82	3.42	2.82
	Tin	72	.828	.318	.410	929710E-03-36-ND◆	7.01	6.28	5.17
	Gold	72	.528	.318	.110	929715E-01-36-ND◆ ***NEW!***	9.60	8.60	7.08
	Gold	72	.593	.318	.175	929715-10-36-ND◆	9.09	8.14	6.70
	Gold	72	.828	.318	.410	929715-03-36-ND◆	13.65	12.22	10.06
Right Angle, Single Row Male									
3	Solder	36	—	—	—	929835-01-36-ND	2.11	1.89	1.56
	Tin	36	—	—	—	929835E-01-36-ND◆	1.82	1.64	1.35
Right Angle, Dual Row Male									
4	Solder	72	—	—	.145	929838-04-36-ND	5.16	4.62	3.81
	Tin	72	—	—	.145	929838E-04-36-ND◆	3.76	3.37	2.78
	Solder	72	—	—	.405	929838-02-36-ND	5.30	4.75	3.91
	Tin	72	—	—	.405	929838E-02-36-ND◆	3.79	3.40	2.80
	Gold	72	—	—	.110	929667E-01-36-ND◆ ***NEW!***	11.26	10.08	8.30
	Gold	72	—	—	.145	929667-04-36-ND◆	12.65	11.33	9.33
	Gold	72	—	—	.405	929667-02-36-ND◆	15.85	14.18	11.68
Right Angle, Single Row Polarized Male									
5	Solder	36	—	—	—	929500-01-36-ND	2.31	2.07	1.71
	Tin	36	—	—	—	929500E-01-36-ND◆	2.00	1.79	1.47
	Gold	36	—	—	—	929550-01-36-ND	6.07	5.44	4.48
	Gold	36	—	—	—	929550E-01-36-ND◆	3.96	3.55	2.92
Straight, Single Row Female									
6	Solder	36	—	—	—	929974-01-36-ND	2.82	2.53	2.08
	Tin	36	—	—	—	929974E-01-36-ND◆	2.57	2.30	1.89
	Gold	36	—	—	—	929850-01-36-ND	3.65	3.27	2.69
	Gold	36	—	—	—	929850E-01-36-ND◆	3.31	2.96	2.44
Straight, Dual Row Female									
7	Solder	72	—	—	—	929975-01-36-ND	4.90	4.39	3.62
	Tin	72	—	—	—	929975E-01-36-ND◆	4.45	3.98	3.28
	Gold	72	—	—	—	929852-01-36-ND	6.95	6.23	5.13
	Gold	72	—	—	—	929852E-01-36-ND◆	6.33	5.67	4.67
Shorting Jumpers — RoHS Compliant									
8	Solder Plated					929950-00-ND		2.29/10	
	10μ Gold Plated					929955-06-ND		2.91/10	
	30μ Gold Plated					929957-08-ND		3.12/10	

1 ~ 35 Pin Headers

Step 1 Digi-Key Part No.*	Step 2 Base Price	Step 3 Pin Adder
Straight, Single Row Male		
929834E-01-XX-ND◆	.20	.04
929834-02-XX-ND	.80	.04
929834E-02-XX-ND◆	.51	.04
929834-03-XX-ND	.91	.05
929834E-03-XX-ND◆	.90	.04
929834-04-XX-ND	.86	.06
929834E-04-XX-ND◆	.78	.05
929834-05-XX-ND	.89	.06
929834E-05-XX-ND◆	.82	.05
929834-07-XX-ND	1.03	.07
929647E-01-XX-ND◆	.89	.11
929647-09-XX-ND◆	1.25	.08
929647-02-XX-ND◆	1.76	.10
929647-03-XX-ND◆	1.40	.20
929647-04-XX-ND◆	2.74	.16
929647-05-XX-ND◆	2.53	.16
929647-07-XX-ND◆	3.45	.20
929400-01-XX-ND	.80	.04
929400E-01-XX-ND◆	.51	.04
929450-01-XX-ND◆	1.64	.10
Straight, Dual Row Male		
929836E-01-XX-ND◆	.83	.06
929836-09-XX-ND	1.49	.08
929836E-09-XX-ND◆	1.49	.06
929836E-02-XX-ND◆	1.37	.05
929836-08-XX-ND	2.00	.10
929836E-08-XX-ND◆	1.57	.07
929836E-03-XX-ND◆	1.27	.07
929836E-04-XX-ND◆	1.66	.07
929836-05-XX-ND	1.94	.10
929836E-05-XX-ND◆	1.45	.07
929665E-01-XX-ND◆	1.32	.19
929665-09-XX-ND◆	3.36	.17
929665-02-XX-ND◆	3.59	.19
929665-08-XX-ND◆	4.01	.21
929665-03-XX-ND◆	4.65	.24
929665-04-XX-ND◆	5.70	.30
929665-05-XX-ND◆	6.97	.38
929710-10-XX-ND	1.71	.08
929710E-10-XX-ND◆	.90	.09
929710E-03-XX-ND◆	1.48	.17
929715E-01-XX-ND◆	1.78	.24
929715-10-XX-ND◆	3.34	.18
929715-03-XX-ND◆	5.02	.27
Right Angle, Single Row Male		
929835-01-XX-ND	.84	.04
929835E-01-XX-ND◆	.53	.04
Right Angle, Dual Row Male		
929838-04-XX-ND	1.97	.10
929838E-04-XX-ND◆	1.54	.07
929838-02-XX-ND	2.12	.10
929838E-02-XX-ND◆	1.57	.07
929667E-01-XX-ND◆	2.14	.28
929667-04-XX-ND◆	4.66	.25
929667-02-XX-ND◆	5.60	.32
Right Angle, Single Row Polarized Male		
929500-01-XX-ND	.70	.05
929500E-01-XX-ND◆	.72	.04
929550-01-XX-ND	2.23	.12
929550E-01-XX-ND◆	1.40	.08
Straight, Single Row Female		
929974-01-XX-ND	.89	.06
929974E-01-XX-ND◆	.97	.05
929850-01-XX-ND	1.42	.07
929850E-01-XX-ND◆	1.06	.07
Straight, Dual Row Female		
929975-01-XX-ND	2.04	.09
929975E-01-XX-ND◆	1.57	.09
929852-01-XX-ND	2.47	.14
929852E-01-XX-ND◆	2.51	.12

* Replace XX in the Digi-Key part number with your desired number of pins per row.

◆ ***RoHS Compliant***

HOW TO ORDER: 4 EASY STEPS

How do I order a 929834E-01 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

929 ☐☐☐☐ - ☐☐ - ☐☐ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1. 929834E-01-16-ND
Step 2. .20
Step 3. 16 x .04 = .64
Step 4. Your Cost = .84

Your Digi-Key Part Number:

Step 1. 929☐☐☐☐-☐☐-☐☐-ND
Step 2. ______
Step 3. ____ x ____ = ______
Step 4. Your Cost = $ ______

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

SULLINS
CONNECTOR SOLUTIONS

.1” (2.54mm) Female Headers

Specifications:
- Current Rating: 3 Amps
- Insulator Resistance: 5000MΩ minimum
- Contact Resistance: 20mΩ maximum
- Contact Material: Phosphor Bronze
- Plating: Tin or Gold

Fig. 1

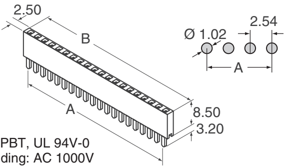

- Insulator Material: PBT, UL 94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: -40°C ~ 105°C

Fig. 2

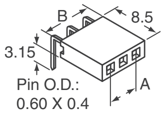

- Insulator Material: Polyester PBT, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 105°C

Fig. 3

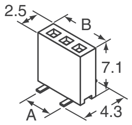

- Insulator Material: Nylon 6T, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 125°C

Fig. 4

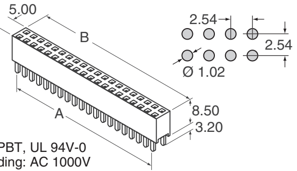

- Insulator Material: PBT, UL 94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: -40°C ~ 105°C

Fig. 5

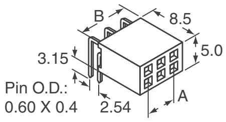

- Insulator Material: Polyester PBT, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 105°C

Fig. 6

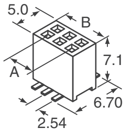

- Insulator Material: Nylon 6T, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 125°C

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Fig. 1 — Single Row Female Headers								
Tin	8	.700 (17.78)	.820 (20.82)	S4008-ND	.61	5.08	32.38	PPTC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4009-ND	.70	5.80	37.00	PPTC091LFBN
Gold	8	.700 (17.78)	.820 (20.82)	S4108-ND	.61	5.08	32.38	PPPC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4109-ND	.70	5.80	37.00	PPPC091LFBN
Fig. 1 — Single Row Female Headers – RoHS Compliant								
Tin	2	.100 (2.54)	.220 (5.58)	S7000-ND	.28	2.32	14.80	PPTC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7001-ND	.39	3.19	20.35	PPTC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7002-ND	.49	4.06	25.90	PPTC041LFBN-RC
	5	.400 (10.16)	.520 (13.20)	S6103-ND	.49	4.06	25.90	PPTC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7004-ND	.56	4.64	29.60	PPTC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7005-ND	.63	5.22	33.30	PPTC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7006-ND	.70	5.80	37.00	PPTC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7007-ND	.77	6.38	40.70	PPTC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7008-ND	.77	6.38	40.70	PPTC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7009-ND	.84	6.96	44.40	PPTC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S6100-ND	.91	7.54	48.10	PPTC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7011-ND	1.02	8.41	53.65	PPTC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7012-ND	1.09	8.99	57.35	PPTC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7013-ND	1.16	9.57	61.05	PPTC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7014-ND	1.16	9.57	61.05	PPTC161LFBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S7015-ND	1.23	10.15	64.75	PPTC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7016-ND	1.33	11.02	70.30	PPTC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7017-ND	1.40	11.60	74.00	PPTC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7018-ND	1.47	12.18	77.70	PPTC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7019-ND	1.54	12.76	81.40	PPTC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7020-ND	1.61	13.34	85.10	PPTC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7021-ND	1.68	13.92	88.80	PPTC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7022-ND	1.75	14.50	92.50	PPTC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7023-ND	1.82	15.08	96.20	PPTC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7024-ND	1.89	15.66	99.90	PPTC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7025-ND	2.00	16.53	105.45	PPTC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7026-ND	2.07	17.11	109.15	PPTC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7027-ND	2.14	17.69	112.85	PPTC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7028-ND	2.21	18.27	116.55	PPTC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7029-ND	2.28	18.85	120.25	PPTC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S6102-ND	2.35	19.43	123.95	PPTC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7031-ND	2.42	20.01	127.65	PPTC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7032-ND	2.49	20.59	131.35	PPTC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7033-ND	2.56	21.17	135.05	PPTC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7034-ND	2.66	22.04	140.60	PPTC361LFBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S7035-ND	.28	2.32	14.80	PPPC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7036-ND	.39	3.19	20.35	PPPC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7037-ND	.49	4.06	25.90	PPPC041LFBN-RC
	5	.400 (10.16)	.520 (13.20)	S7038-ND	.53	4.35	27.75	PPPC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7039-ND	.56	4.64	29.60	PPPC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7040-ND	.63	5.22	33.30	PPPC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7041-ND	.70	5.80	37.00	PPPC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7042-ND	.77	6.38	40.70	PPPC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7043-ND	.77	6.38	40.70	PPPC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7044-ND	.88	7.25	46.25	PPPC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S7045-ND	.95	7.83	49.95	PPPC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7046-ND	1.02	8.41	53.65	PPPC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7047-ND	1.12	9.28	59.20	PPPC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7048-ND	1.19	9.86	62.90	PPPC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7049-ND	1.19	9.86	62.90	PPPC161LFBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S7050-ND	1.26	10.44	66.60	PPPC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7051-ND	1.33	11.02	70.30	PPPC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7052-ND	1.44	11.89	75.85	PPPC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7053-ND	1.51	12.47	79.55	PPPC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7054-ND	1.58	13.05	83.25	PPPC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7055-ND	1.65	13.63	86.95	PPPC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7056-ND	1.72	14.21	90.65	PPPC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7057-ND	1.79	14.79	94.35	PPPC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7058-ND	1.89	15.66	99.90	PPPC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7059-ND	1.96	16.24	103.60	PPPC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7060-ND	2.03	16.82	107.30	PPPC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7061-ND	2.10	17.40	111.00	PPPC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7062-ND	2.17	17.98	114.70	PPPC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7063-ND	2.24	18.56	118.40	PPPC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7064-ND	2.35	19.43	123.95	PPPC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S7065-ND	2.42	20.01	127.65	PPPC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7066-ND	2.49	20.59	131.35	PPPC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7067-ND	2.56	21.17	135.05	PPPC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7068-ND	2.63	21.75	138.75	PPPC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7069-ND	2.70	22.33	142.45	PPPC361LFBN-RC
Fig. 2 — Single Row Female Headers, Right Angle								
Tin	7	.600 (15.24)	.724 (18.28)	S4342-ND	.54	4.50	28.68	PPTC071LGBN
	9	.800 (20.32)	.924 (23.36)	S4344-ND	.61	5.08	32.38	PPTC091LGBN
	11	1.00 (25.40)	1.12 (28.44)	S4346-ND	.82	6.79	43.29	PPTC111LGBN
	13	1.20 (30.48)	1.32 (33.52)	S4348-ND	.97	8.03	51.25	PPTC131LGBN
	15	1.40 (35.56)	1.52 (38.60)	S4350-ND	1.11	9.22	58.83	PPTC151LGBN
	16	1.50 (38.10)	1.62 (41.14)	S4351-ND	1.10	9.14	58.28	PPTC161LGBN
	17	1.60 (40.64)	1.72 (43.68)	S4352-ND	1.18	9.74	62.16	PPTC171LGBN
	18	1.70 (43.18)	1.82 (46.22)	S4353-ND	1.25	10.32	65.86	PPTC181LGBN
	19	1.80 (45.72)	1.92 (48.76)	S4354-ND	1.32	10.93	69.75	PPTC191LGBN
	21	2.00 (50.80)	2.12 (53.84)	S4356-ND	1.45	12.04	76.78	PPTC211LGBN
	22	2.10 (53.34)	2.22 (56.38)	S4357-ND	1.52	12.62	80.48	PPTC221LGBN
	23	2.20 (55.88)	2.32 (58.92)	S4358-ND	1.60	13.22	84.36	PPTC231LGBN
	24	2.30 (58.42)	2.42 (61.46)	S4359-ND	1.67	13.80	88.06	PPTC241LGBN
	25	2.40 (60.96)	2.52 (64.00)	S4360-ND	1.73	14.30	91.21	PPTC251LGBN
	26	2.50 (63.50)	2.62 (66.54)	S4361-ND	1.80	14.91	95.09	PPTC261LGBN
	27	2.60 (66.04)	2.72 (69.08)	S4362-ND	1.87	15.49	98.79	PPTC271LGBN
	28	2.70 (68.58)	2.82 (71.62)	S4363-ND	1.94	16.10	102.68	PPTC281LGBN
	29	2.80 (71.12)	2.92 (74.16)	S4364-ND	2.00	16.59	105.82	PPTC291LGBN
	30	2.90 (73.66)	3.02 (76.70)	S4365-ND	2.08	17.20	109.71	PPTC301LGBN
	31	3.00 (76.20)	3.12 (79.24)	S4366-ND	2.15	17.78	113.41	PPTC311LGBN
	32	3.10 (78.74)	3.22 (81.78)	S4367-ND	2.25	18.62	118.77	PPTC321LGBN
	33	3.20 (81.28)	3.32 (84.32)	S4368-ND	2.25	18.62	118.77	PPTC331LGBN
	34	3.30 (83.82)	3.42 (86.86)	S4369-ND	2.35	19.49	124.32	PPTC341LGBN
	35	3.40 (86.36)	3.52 (89.40)	S4370-ND	2.45	20.33	129.69	PPTC351LGBN
	36	3.50 (88.90)	3.62 (91.94)	S4371-ND	2.49	20.65	131.72	PPTC361LGBN
	37	3.60 (91.44)	3.72 (94.48)	S4372-ND	2.57	21.26	135.61	PPTC371LGBN
	38	3.70 (93.98)	3.82 (97.02)	S4373-ND	2.63	21.75	138.75	PPTC381LGBN
	39	3.80 (96.52)	3.92 (99.56)	S4374-ND	2.70	22.36	142.64	PPTC391LGBN
	40	3.90 (99.06)	4.02 (102.10)	S4375-ND	2.77	22.94	146.34	PPTC401LGBN
Gold	2	.100 (2.54)	.224 (5.58)	S4376-ND	.26	2.12	13.51	PPPC021LGBN
	7	.600 (15.24)	.724 (18.28)	S4381-ND	.54	4.50	28.68	PPPC071LGBN
	9	.800 (20.32)	.924 (23.36)	S4383-ND	.61	5.08	32.38	PPPC091LGBN
	10	.900 (22.86)	1.02 (25.90)	S4384-ND	.64	5.31	33.86	PPPC101LGBN
	12	1.10 (27.94)	1.22 (30.98)	S4386-ND	.90	7.45	47.55	PPPC121LGBN
	13	1.20 (30.48)	1.32 (33.52)	S4387-ND	.97	8.03	51.25	PPPC131LGBN
	15	1.40 (35.56)	1.52 (38.60)	S4389-ND	1.11	9.22	58.83	PPPC151LGBN
	16	1.50 (38.10)	1.62 (41.14)	S4390-ND	1.10	9.14	58.28	PPPC161LGBN
	17	1.60 (40.64)	1.72 (43.68)	S4391-ND	1.18	9.74	62.16	PPPC171LGBN
	19	1.80 (45.72)	1.92 (48.76)	S4393-ND	1.32	10.93	69.75	PPPC191LGBN
	21	2.00 (50.80)	2.12 (53.84)	S4395-ND	1.45	12.04	76.78	PPPC211LGBN
	22	2.10 (53.34)	2.22 (56.38)	S4396-ND	1.52	12.62	80.48	PPPC221LGBN
	23	2.20 (55.88)	2.32 (58.92)	S4397-ND	1.60	13.22	84.36	PPPC231LGBN
	24	2.30 (58.42)	2.42 (61.46)	S4398-ND	1.67	13.80	88.06	PPPC241LGBN
	25	2.40 (60.96)	2.52 (64.00)	S4399-ND	1.73	14.30	91.21	PPPC251LGBN
	26	2.50 (63.50)	2.62 (66.54)	S4400-ND	1.80	14.91	95.09	PPPC261LGBN
	27	2.60 (66.04)	2.72 (69.08)	S4401-ND	1.87	15.49	98.79	PPPC271LGBN
	28	2.70 (68.58)	2.82 (71.62)	S4402-ND	1.94	16.10	102.68	PPPC281LGBN
	29	2.80 (71.12)	2.92 (74.16)	S4403-ND	2.00	16.59	105.82	PPPC291LGBN
	30	2.90 (73.66)	3.02 (76.70)	S4404-ND	2.08	17.20	109.71	PPPC301LGBN
	31	3.00 (76.20)	3.12 (79.24)	S4405-ND	2.15	17.78	113.41	PPPC311LGBN
	33	3.20 (81.28)	3.32 (84.32)	S4407-ND	2.25	18.62	118.77	PPPC331LGBN
	34	3.30 (83.82)	3.42 (86.86)	S4408-ND	2.35	19.49	124.32	PPPC341LGBN
	35	3.40 (86.36)	3.52 (89.40)	S4409-ND	2.45	20.33	129.69	PPPC351LGBN
	36	3.50 (88.90)	3.62 (91.94)	S4410-ND	2.49	20.65	131.72	PPPC361LGBN
	37	3.60 (91.44)	3.72 (94.48)	S4411-ND	2.57	21.26	135.61	PPPC371LGBN
	38	3.70 (93.98)	3.82 (97.02)	S4412-ND	2.63	21.75	138.75	PPPC381LGBN
	39	3.80 (96.52)	3.92 (99.56)	S4413-ND	2.70	22.36	142.64	PPPC391LGBN
	40	3.90 (99.06)	4.02 (102.10)	S4414-ND	2.77	22.94	146.34	PPPC401LGBN
Fig. 2 — Single Row Female Headers, Right Angle – RoHS Compliant								
Tin	2	.100 (2.54)	.220 (5.58)	S5438-ND	.46	3.77	24.05	PPTC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5439-ND	.53	4.35	27.75	PPTC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5440-ND	.60	4.93	31.45	PPTC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5441-ND	.70	5.80	37.00	PPTC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5442-ND	.77	6.38	40.70	PPTC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5443-ND	.81	6.67	42.55	PPTC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5444-ND	.84	6.96	44.40	PPTC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5445-ND	.88	7.25	46.25	PPTC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5446-ND	.91	7.54	48.10	PPTC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5447-ND	.91	7.54	48.10	PPTC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5448-ND	.95	7.83	49.95	PPTC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5449-ND	1.02	8.41	53.65	PPTC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5450-ND	1.12	9.28	59.20	PPTC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5451-ND	1.19	9.86	62.90	PPTC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5452-ND	1.26	10.44	66.60	PPTC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5453-ND	1.33	11.02	70.30	PPTC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5454-ND	1.44	11.89	75.85	PPTC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5455-ND	1.54	12.76	81.40	PPTC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5456-ND	1.58	13.05	83.25	PPTC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5457-ND	1.65	13.63	86.95	PPTC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5458-ND	1.75	14.50	92.50	PPTC221LGBN-RC

(Continued)

SULLINS .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	23	2.20 (55.88)	2.32 (58.92)	S5459-ND	1.82	15.08	96.20	PPTC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5460-ND	1.89	15.66	99.90	PPTC241LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5462-ND	2.03	16.82	107.30	PPTC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5463-ND	2.14	17.69	112.85	PPTC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5464-ND	2.21	18.27	116.55	PPTC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5465-ND	2.28	18.85	120.25	PPTC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5466-ND	2.38	19.72	125.80	PPTC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5467-ND	2.45	20.30	129.50	PPTC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5468-ND	2.52	20.88	133.20	PPTC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5469-ND	2.59	21.46	136.90	PPTC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5470-ND	2.70	22.33	142.45	PPTC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5471-ND	2.77	22.91	146.15	PPTC351LGBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S5472-ND	2.84	23.49	149.85	PPTC361LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5473-ND	2.91	24.07	153.55	PPTC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5474-ND	3.01	24.94	159.10	PPTC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5475-ND	3.08	25.52	162.80	PPTC391LGBN-RC
	40	3.90 (99.06)	4.02 (102.10)	S5476-ND	3.15	26.10	166.50	PPTC401LGBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S5477-ND	.46	3.77	24.05	PPPC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5478-ND	.53	4.35	27.75	PPPC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5479-ND	.60	4.93	31.45	PPPC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5480-ND	.70	5.80	37.00	PPPC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5481-ND	.77	6.38	40.70	PPPC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5482-ND	.84	6.96	44.40	PPPC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5483-ND	.88	7.25	46.25	PPPC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5484-ND	.88	7.25	46.25	PPPC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5485-ND	.91	7.54	48.10	PPPC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5486-ND	.95	7.83	49.95	PPPC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5487-ND	.98	8.12	51.80	PPPC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5488-ND	1.05	8.70	55.50	PPPC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5489-ND	1.16	9.57	61.05	PPPC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5490-ND	1.23	10.15	64.75	PPPC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5491-ND	1.30	10.73	68.45	PPPC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5492-ND	1.37	11.31	72.15	PPPC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5493-ND	1.47	12.18	77.70	PPPC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5494-ND	1.58	13.05	83.25	PPPC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5495-ND	1.65	13.63	86.95	PPPC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5496-ND	1.68	13.92	88.80	PPPC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5497-ND	1.82	15.08	96.20	PPPC221LGBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S5498-ND	1.89	15.66	99.90	PPPC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5499-ND	1.96	16.24	103.60	PPPC241LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5501-ND	2.10	17.40	111.00	PPPC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5502-ND	2.17	17.98	114.70	PPPC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5503-ND	2.28	18.85	120.25	PPPC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5504-ND	2.35	19.43	123.95	PPPC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5505-ND	2.42	20.01	127.65	PPPC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5506-ND	2.52	20.88	133.20	PPPC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5507-ND	2.59	21.46	136.90	PPPC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5508-ND	2.66	22.04	140.60	PPPC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5509-ND	2.77	22.91	146.15	PPPC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5510-ND	2.84	23.49	149.85	PPPC351LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5512-ND	3.01	24.94	159.10	PPPC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5513-ND	3.08	25.52	162.80	PPPC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5514-ND	3.15	26.10	166.50	PPPC391LGBN-RC
Fig. 3 — Single Row Female Headers, SMT								
Tin	3	.200 (5.08)	.300 (7.62)	S4494-ND	.70	5.77	36.82	PPTC031KFXC
	4	.300 (7.62)	.400 (10.16)	S4495-ND	.91	7.54	48.10	PPTC041KFXC
	5	.400 (10.16)	.500 (12.70)	S4496-ND	.96	7.95	50.69	PPTC051KFXC
	8	.700 (17.78)	.800 (20.32)	S4499-ND	1.53	12.70	81.03	PPTC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4500-ND	1.73	14.30	91.21	PPTC091KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4502-ND	1.76	14.56	92.87	PPTC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4503-ND	1.92	15.92	101.57	PPTC121KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4506-ND	2.39	19.81	126.36	PPTC151KFXC
	16	1.50 (38.10)	1.60 (40.64)	S4507-ND	2.56	21.17	135.05	PPTC161KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4508-ND	2.72	22.53	143.75	PPTC171KFXC
	18	1.70 (43.18)	1.80 (45.72)	S4509-ND	2.87	23.81	151.89	PPTC181KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4510-ND	3.03	25.14	160.40	PPTC191KFXC
	20	1.90 (48.26)	2.00 (50.80)	S4511-ND	3.20	26.51	169.09	PPTC201KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4512-ND	3.13	25.93	165.39	PPTC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4513-ND	3.28	27.17	173.35	PPTC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4514-ND	3.42	28.36	180.93	PPTC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4515-ND	3.58	29.64	189.07	PPTC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4516-ND	3.73	30.91	197.21	PPTC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4517-ND	3.87	32.10	204.80	PPTC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4518-ND	4.03	33.35	212.75	PPTC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4519-ND	4.17	34.54	220.34	PPTC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4520-ND	4.32	35.82	228.48	PPTC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4521-ND	4.48	37.09	236.62	PPTC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4522-ND	4.62	38.28	244.20	PPTC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4523-ND	4.77	39.56	252.34	PPTC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4524-ND	4.92	40.75	259.93	PPTC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4525-ND	5.07	41.99	267.88	PPTC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4526-ND	5.21	43.18	275.47	PPTC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4527-ND	5.37	44.46	283.61	PPTC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4528-ND	5.52	45.73	291.75	PPTC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4529-ND	5.66	46.92	299.33	PPTC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4530-ND	5.81	48.17	307.29	PPTC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4531-ND	5.96	49.36	314.87	PPTC401KFXC
Gold	2	.100 (2.54)	.200 (5.08)	S4532-ND	.45	3.71	23.68	PPPC021KFXC
	3	.200 (5.08)	.300 (7.62)	S4533-ND	.70	5.77	36.82	PPPC031KFXC
	6	.500 (12.70)	.600 (15.24)	S4536-ND	1.16	9.57	61.05	PPPC061KFXC
	7	.600 (15.24)	.700 (17.78)	S4537-ND	1.34	11.11	70.86	PPPC071KFXC
	8	.700 (17.78)	.800 (20.32)	S4538-ND	1.53	12.70	81.03	PPPC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4539-ND	1.73	14.30	91.21	PPPC091KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4541-ND	1.76	14.56	92.87	PPPC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4542-ND	1.92	15.92	101.57	PPPC121KFXC
	13	1.20 (30.48)	1.30 (33.02)	S4543-ND	2.08	17.20	109.71	PPPC131KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4545-ND	2.39	19.81	126.36	PPPC151KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4547-ND	2.72	22.53	143.75	PPPC171KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4549-ND	3.03	25.14	160.40	PPPC191KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4551-ND	3.13	25.93	165.39	PPPC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4552-ND	3.28	27.17	173.35	PPPC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4553-ND	3.42	28.36	180.93	PPPC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4554-ND	3.58	29.64	189.07	PPPC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4555-ND	3.73	30.91	197.21	PPPC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4556-ND	3.87	32.10	204.80	PPPC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4557-ND	4.03	33.35	212.75	PPPC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4558-ND	4.17	34.54	220.34	PPPC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4559-ND	4.32	35.82	228.48	PPPC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4560-ND	4.48	37.09	236.62	PPPC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4561-ND	4.62	38.28	244.20	PPPC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4562-ND	4.77	39.56	252.34	PPPC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4563-ND	4.92	40.75	259.93	PPPC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4564-ND	5.07	41.99	267.88	PPPC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4565-ND	5.21	43.18	275.47	PPPC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4566-ND	5.37	44.46	283.61	PPPC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4567-ND	5.52	45.73	291.75	PPPC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4568-ND	5.66	46.92	299.33	PPPC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4569-ND	5.81	48.17	307.29	PPPC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4570-ND	5.96	49.36	314.87	PPPC401KFXC
Fig. 3 — Single Row Female Headers, SMT – RoHS Compliant								
Tin	2	.100 (2.54)	.200 (5.08)	S5594-ND	.56	4.64	29.60	NPTC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5595-ND	.67	5.51	35.15	NPTC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5596-ND	.70	5.80	37.00	NPTC041KFXC-RC
	5	.400 (10.16)	.500 (12.70)	S5597-ND	.95	7.83	49.95	NPTC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5598-ND	.98	8.12	51.80	NPTC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5599-ND	1.16	9.57	61.05	NPTC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5600-ND	1.30	10.73	68.45	NPTC081KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5602-ND	1.44	11.89	75.85	NPTC101KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5604-ND	1.65	13.63	86.95	NPTC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5605-ND	1.79	14.79	94.35	NPTC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5606-ND	1.93	15.95	101.75	NPTC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5607-ND	1.96	16.24	103.60	NPTC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5608-ND	1.90	15.73	100.35	NPTC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5609-ND	2.10	17.40	111.00	NPTC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5610-ND	2.24	18.56	118.40	NPTC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5611-ND	2.35	19.43	123.95	NPTC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5612-ND	2.49	20.59	131.35	NPTC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5613-ND	2.49	20.59	131.35	NPTC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5614-ND	2.59	21.46	136.90	NPTC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5615-ND	2.73	22.62	144.30	NPTC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5616-ND	2.84	23.49	149.85	NPTC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5617-ND	2.98	24.65	157.25	NPTC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5618-ND	3.08	25.52	162.80	NPTC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5619-ND	3.19	26.39	168.35	NPTC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5620-ND	3.33	27.55	175.75	NPTC281KFXC-RC
	29	2.80 (71.12)	2.90 (73.66)	S5621-ND	3.43	28.42	181.30	NPTC291KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5622-ND	3.57	29.58	188.70	NPTC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5623-ND	3.68	30.45	194.25	NPTC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5624-ND	3.71	30.74	196.10	NPTC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5625-ND	3.75	31.03	197.95	NPTC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5626-ND	3.78	31.32	199.80	NPTC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5627-ND	3.89	32.19	205.35	NPTC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5628-ND	3.99	33.06	210.90	NPTC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5629-ND	4.10	33.93	216.45	NPTC371KFXC-RC
	38	3.70 (93.98)	3.80 (96.52)	S5630-ND	4.20	34.80	222.00	NPTC381KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5631-ND	4.34	35.96	229.40	NPTC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5632-ND	4.45	36.83	234.95	NPTC401KFXC-RC
Gold	2	.100 (2.54)	.200 (5.08)	S5633-ND	.56	4.64	29.60	NPPC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5634-ND	.67	5.51	35.15	NPPC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5635-ND	.74	6.09	38.85	NPPC041KFXC-RC
	5	.400 (10.16)	.500 (12.70)	S5636-ND	.95	7.83	49.95	NPPC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5637-ND	.98	8.12	51.80	NPPC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5638-ND	1.16	9.57	61.05	NPPC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5639-ND	1.30	10.73	68.45	NPPC081KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5641-ND	1.47	12.18	77.70	NPPC101KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5643-ND	1.65	13.63	86.95	NPPC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5644-ND	1.79	14.79	94.35	NPPC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5645-ND	1.93	15.95	101.75	NPPC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5646-ND	2.00	16.53	105.45	NPPC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5647-ND	2.07	17.11	109.15	NPPC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5648-ND	2.10	17.40	111.00	NPPC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5649-ND	2.24	18.56	118.40	NPPC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5650-ND	2.35	19.43	123.95	NPPC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5651-ND	2.49	20.59	131.35	NPPC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5652-ND	2.52	20.88	133.20	NPPC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5653-ND	2.59	21.46	136.90	NPPC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5654-ND	2.73	22.62	144.30	NPPC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5655-ND	2.84	23.49	149.85	NPPC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5656-ND	2.98	24.65	157.25	NPPC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5657-ND	3.08	25.52	162.80	NPPC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5658-ND	3.19	26.39	168.35	NPPC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5659-ND	3.33	27.55	175.75	NPPC281KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5661-ND	3.57	29.58	188.70	NPPC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5662-ND	3.68	30.45	194.25	NPPC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5663-ND	3.71	30.74	196.10	NPPC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5664-ND	3.75	31.03	197.95	NPPC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5665-ND	3.78	31.32	199.80	NPPC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5666-ND	3.89	32.19	205.35	NPPC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5667-ND	3.99	33.06	210.90	NPPC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5668-ND	4.10	33.93	216.45	NPPC371KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5670-ND	4.34	35.96	229.40	NPPC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5671-ND	4.45	36.83	234.95	NPPC401KFXC-RC
Fig. 4 — Dual Row Female Headers								
Tin	62	3.00 (76.20)	3.12 (79.24)	S4231-ND	2.56	21.17	135.05	PPTC312LFBN
Fig. 4 — Dual Row Female Headers – RoHS Compliant								
Tin	4	.100 (2.54)	.220 (5.58)	S7070-ND	.60	4.93	31.45	PPTC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7071-ND	.63	5.22	33.30	PPTC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7072-ND	.77	6.38	40.70	PPTC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S6105-ND	.81	6.67	42.55	PPTC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7074-ND	.91	7.54	48.10	PPTC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7075-ND	1.12	9.28	59.20	PPTC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7076-ND	1.19	9.86	62.90	PPTC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7077-ND	1.30	10.73	68.45	PPTC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S7078-ND	1.54	12.76	81.40	PPTC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7079-ND	1.72	14.21	90.65	PPTC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7080-ND	1.86	15.37	98.05	PPTC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7081-ND	2.03	16.82	107.30	PPTC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7082-ND	2.17	17.98	114.70	PPTC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7083-ND	2.35	19.43	123.95	PPTC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7084-ND	2.35	19.43	123.95	PPTC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7085-ND	2.49	20.59	131.35	PPTC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7086-ND	2.66	22.04	140.60	PPTC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7087-ND	2.80	23.20	148.00	PPTC192LFBN-RC

(Continued)

.1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	40	1.90 (48.26)	2.02 (51.30)	S6104-ND	2.94	24.36	155.40	PPTC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7089-ND	2.98	24.65	157.25	PPTC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7090-ND	3.12	25.81	164.65	PPTC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7091-ND	3.26	26.97	172.05	PPTC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7092-ND	3.40	28.13	179.45	PPTC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7093-ND	3.54	29.29	186.85	PPTC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7094-ND	3.68	30.45	194.25	PPTC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7095-ND	3.82	31.61	201.65	PPTC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7096-ND	3.96	32.77	209.05	PPTC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7097-ND	4.10	33.93	216.45	PPTC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7098-ND	4.24	35.09	223.85	PPTC302LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7100-ND	4.52	37.41	238.65	PPTC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7101-ND	4.66	38.57	246.05	PPTC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7102-ND	4.80	39.73	253.45	PPTC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7103-ND	4.94	40.89	260.85	PPTC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7104-ND	5.08	42.05	268.25	PPTC362LFBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S7105-ND	.60	4.93	31.45	PPPC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7106-ND	.67	5.51	35.15	PPPC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7107-ND	.81	6.67	42.55	PPPC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S7108-ND	.84	6.96	44.40	PPPC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7109-ND	.95	7.83	49.95	PPPC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7110-ND	1.12	9.28	59.20	PPPC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7111-ND	1.19	9.86	62.90	PPPC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7112-ND	1.33	11.02	70.30	PPPC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S6106-ND	1.58	13.05	83.25	PPPC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7114-ND	1.75	14.50	92.50	PPPC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7115-ND	1.93	15.95	101.75	PPPC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7116-ND	2.07	17.11	109.15	PPPC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7117-ND	2.24	18.56	118.40	PPPC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7118-ND	2.38	19.72	125.80	PPPC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7119-ND	2.42	20.01	127.65	PPPC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7120-ND	2.56	21.17	135.05	PPPC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7121-ND	2.70	22.33	142.45	PPPC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7122-ND	2.87	23.78	151.70	PPPC192LFBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S7123-ND	3.01	24.94	159.10	PPPC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7124-ND	3.05	25.23	160.95	PPPC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7125-ND	3.19	26.39	168.35	PPPC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7126-ND	3.33	27.55	175.75	PPPC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7127-ND	3.47	28.71	183.15	PPPC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7128-ND	3.61	29.87	190.55	PPPC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7129-ND	3.78	31.32	199.80	PPPC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7130-ND	3.92	32.48	207.20	PPPC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7131-ND	4.06	33.64	214.60	PPPC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7132-ND	4.20	34.80	222.00	PPPC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7133-ND	4.34	35.96	229.40	PPPC302LFBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S7134-ND	4.48	37.12	236.80	PPPC312LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7135-ND	4.66	38.57	246.05	PPPC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7136-ND	4.80	39.73	253.45	PPPC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7137-ND	4.94	40.89	260.85	PPPC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7138-ND	5.08	42.05	268.25	PPPC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7139-ND	5.22	43.21	275.65	PPPC362LFBN-RC

Fig. 5 — Dual Row Female Headers, Right Angle - RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	4	.100 (2.54)	.220 (5.58)	S5516-ND	.84	6.96	44.40	PPTC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5517-ND	1.02	8.41	53.65	PPTC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5518-ND	1.16	9.57	61.05	PPTC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5519-ND	1.26	10.44	66.60	PPTC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5520-ND	1.47	12.18	77.70	PPTC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5521-ND	1.54	12.76	81.40	PPTC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5522-ND	1.72	14.21	90.65	PPTC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5523-ND	1.79	14.79	94.35	PPTC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5524-ND	1.82	15.08	96.20	PPTC102LJBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S5525-ND	2.03	16.82	107.30	PPTC112LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5526-ND	2.21	18.27	116.55	PPTC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5527-ND	2.38	19.72	125.80	PPTC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5528-ND	2.56	21.17	135.05	PPTC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5529-ND	2.77	22.91	146.15	PPTC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5530-ND	2.80	23.20	148.00	PPTC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5531-ND	2.98	24.65	157.25	PPTC172LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5534-ND	3.36	27.84	177.60	PPTC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5535-ND	3.54	29.29	186.85	PPTC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5536-ND	3.71	30.74	196.10	PPTC222LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5538-ND	4.06	33.64	214.60	PPTC242LJBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S5539-ND	4.20	34.80	222.00	PPTC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5540-ND	4.38	36.25	231.25	PPTC262LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5542-ND	4.73	39.15	249.75	PPTC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5543-ND	4.90	40.60	259.00	PPTC292LJBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S5545-ND	5.08	42.05	268.25	PPTC312LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5547-ND	5.43	44.95	286.75	PPTC332LJBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S5548-ND	5.57	46.11	294.15	PPTC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5549-ND	5.74	47.56	303.40	PPTC352LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5551-ND	6.09	50.46	321.90	PPTC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5552-ND	6.23	51.62	329.30	PPTC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5553-ND	6.41	53.07	338.55	PPTC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5554-ND	6.58	54.52	347.80	PPTC402LJBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5555-ND	.84	6.96	44.40	PPPC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5556-ND	1.02	8.41	53.65	PPPC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5557-ND	1.16	9.57	61.05	PPPC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5558-ND	1.30	10.73	68.45	PPPC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5559-ND	1.51	12.47	79.55	PPPC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5560-ND	1.58	13.05	83.25	PPPC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5561-ND	1.75	14.50	92.50	PPPC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5562-ND	1.82	15.08	96.20	PPPC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5563-ND	1.89	15.66	99.90	PPPC102LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5565-ND	2.24	18.56	118.40	PPPC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5566-ND	2.45	20.30	129.50	PPPC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5567-ND	2.63	21.75	138.75	PPPC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5568-ND	2.84	23.49	149.85	PPPC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5569-ND	2.87	23.78	151.70	PPPC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5570-ND	3.08	25.52	162.80	PPPC172LJBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S5572-ND	3.43	28.42	181.30	PPPC192LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5573-ND	3.47	28.71	183.15	PPPC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5574-ND	3.64	30.16	192.40	PPPC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5575-ND	3.82	31.61	201.65	PPPC222LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5577-ND	4.17	34.51	220.15	PPPC242LJBN-RC
Gold	50	2.40 (60.96)	2.52 (64.00)	S5578-ND	4.34	35.96	229.40	PPPC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5579-ND	4.52	37.41	238.65	PPPC262LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5581-ND	4.83	40.02	255.30	PPPC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5582-ND	5.01	41.47	264.55	PPPC292LJBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S5584-ND	5.22	43.21	275.65	PPPC312LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5586-ND	5.57	46.11	294.15	PPPC332LJBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S5587-ND	5.74	47.56	303.40	PPPC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5588-ND	5.92	49.01	312.65	PPPC352LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5590-ND	6.23	51.62	329.30	PPPC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5591-ND	6.41	53.07	338.55	PPPC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5592-ND	6.58	54.52	347.80	PPPC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5593-ND	6.76	55.97	357.05	PPPC402LJBN-RC

Fig. 6 — Dual Row Female Headers, SMT

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	16	.700 (17.78)	.820 (20.82)	S4577-ND	2.89	23.95	152.81	PPTC082KFMS
	18	.800 (20.32)	.920 (23.36)	S4578-ND	3.26	27.00	172.24	PPTC092KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4584-ND	4.63	38.37	244.76	PPTC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4585-ND	4.94	40.89	260.85	PPTC162KFMS
	34	1.60 (40.64)	1.72 (43.68)	S4586-ND	5.25	43.53	277.69	PPTC172KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4588-ND	5.87	48.60	310.06	PPTC192KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4590-ND	6.27	51.91	331.15	PPTC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4591-ND	6.56	54.38	346.88	PPTC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4592-ND	6.86	56.81	362.42	PPTC232KFMS
	50	2.40 (60.96)	2.52 (64.00)	S4594-ND	7.45	61.74	393.87	PPTC252KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4595-ND	7.75	64.18	409.41	PPTC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4596-ND	8.05	66.73	425.69	PPTC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4597-ND	8.35	69.19	441.41	PPTC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4598-ND	8.65	71.63	456.95	PPTC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4599-ND	8.94	74.10	472.68	PPTC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4600-ND	5.74	47.56	303.40	PPTC312KFMS
	64	3.10 (78.74)	3.22 (81.78)	S4601-ND	9.53	79.00	503.94	PPTC322KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4602-ND	9.84	81.55	520.22	PPTC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4603-ND	10.14	84.01	535.95	PPTC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4604-ND	10.43	86.45	551.49	PPTC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4605-ND	10.73	88.91	567.21	PPTC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4606-ND	11.03	91.38	582.94	PPTC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4607-ND	11.32	93.82	598.48	PPTC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4608-ND	11.63	96.37	614.76	PPTC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4609-ND	11.93	98.83	630.48	PPTC402KFMS
Gold	4	.100 (2.54)	.220 (5.58)	S4610-ND	.91	7.54	48.10	PPPC022KFMS
	14	.600 (15.24)	.720 (18.28)	S4615-ND	2.53	21.00	133.94	PPPC072KFMS
	24	1.10 (27.94)	1.22 (30.98)	S4620-ND	3.71	30.74	196.10	PPPC122KFMS
	26	1.20 (30.48)	1.32 (33.52)	S4621-ND	4.02	33.29	212.38	PPPC132KFMS
	28	1.30 (33.02)	1.42 (36.06)	S4622-ND	4.32	35.82	228.48	PPPC142KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4623-ND	4.63	38.37	244.76	PPPC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4624-ND	4.94	40.89	260.85	PPPC162KFMS
	36	1.70 (43.18)	1.82 (46.22)	S4626-ND	5.56	46.05	293.78	PPPC182KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4627-ND	5.87	48.60	310.06	PPPC192KFMS
	40	1.90 (48.26)	2.02 (51.30)	S4628-ND	6.17	51.16	326.34	PPPC202KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4629-ND	6.27	51.91	331.15	PPPC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4630-ND	6.56	54.38	346.88	PPPC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4631-ND	6.86	56.81	362.42	PPPC232KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4634-ND	7.75	64.18	409.41	PPPC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4635-ND	8.05	66.73	425.69	PPPC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4636-ND	8.35	69.19	441.41	PPPC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4637-ND	8.65	71.63	456.95	PPPC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4638-ND	8.94	74.10	472.68	PPPC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4639-ND	5.74	47.56	303.40	PPPC312KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4641-ND	9.84	81.55	520.22	PPPC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4642-ND	10.14	84.01	535.95	PPPC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4643-ND	10.43	86.45	551.49	PPPC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4644-ND	10.73	88.91	567.21	PPPC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4645-ND	11.03	91.38	582.94	PPPC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4646-ND	11.32	93.82	598.48	PPPC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4647-ND	11.63	96.37	614.76	PPPC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4648-ND	11.93	98.83	630.48	PPPC402KFMS

Fig. 6 — Dual Row Female Headers, SMT – RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	4	.100 (2.54)	.220 (5.58)	S5672-ND	.77	6.38	40.70	NPTC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5673-ND	1.05	8.70	55.50	NPTC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5674-ND	1.23	10.15	64.75	NPTC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5675-ND	1.51	12.47	79.55	NPTC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5676-ND	1.86	15.37	98.05	NPTC062KFMS-RC
	14	.600 (15.24)	.720 (18.28)	S5677-ND	1.93	15.95	101.75	NPTC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5678-ND	2.21	18.27	116.55	NPTC082KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5680-ND	2.49	20.59	131.35	NPTC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5681-ND	2.52	20.88	133.20	NPTC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5682-ND	2.77	22.91	146.15	NPTC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5683-ND	3.01	24.94	159.10	NPTC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5684-ND	3.22	26.68	170.20	NPTC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5685-ND	3.47	28.71	183.15	NPTC152KFMS-RC
	32	1.50 (38.10)	1.62 (41.14)	S5686-ND	3.57	29.58	188.70	NPTC162KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5687-ND	3.82	31.61	201.65	NPTC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5688-ND	4.03	33.35	212.75	NPTC182KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5690-ND	4.48	37.12	236.80	NPTC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5691-ND	4.62	38.28	244.20	NPTC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5692-ND	4.83	40.02	255.30	NPTC222KFMS-RC
	46	2.20 (55.88)	2.32 (58.92)	S5693-ND	5.08	42.05	268.25	NPTC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5694-ND	5.29	43.79	279.35	NPTC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5695-ND	5.50	45.53	290.45	NPTC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5696-ND	5.71	47.27	301.55	NPTC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5697-ND	5.95	49.30	314.50	NPTC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5698-ND	6.16	51.04	325.60	NPTC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5699-ND	6.37	52.78	336.70	NPTC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5700-ND	6.62	54.81	349.65	NPTC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5701-ND	6.83	56.55	360.75	NPTC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5702-ND	7.04	58.29	371.85	NPTC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5703-ND	7.28	60.32	384.80	NPTC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5704-ND	7.49	62.06	395.90	NPTC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5705-ND	7.70	63.80	407.00	NPTC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5706-ND	7.91	65.54	418.10	NPTC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5707-ND	8.16	67.57	431.05	NPTC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5708-ND	8.37	69.31	442.15	NPTC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5709-ND	8.58	71.05	453.25	NPTC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5710-ND	8.82	73.08	466.20	NPTC402KFMS-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5711-ND	.81	6.67	42.55	NPPC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5712-ND	1.09	8.99	57.35	NPPC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5713-ND	1.30	10.73	68.45	NPPC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5714-ND	1.58	13.05	83.25	NPPC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5715-ND	1.96	16.24	103.60	NPPC062KFMS-RC

(Continued)

SULLINS .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Gold	14	.600 (15.24)	.720 (18.28)	S5716-ND	2.07	17.11	109.15	NPPC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5717-ND	2.31	19.14	122.10	NPPC082KFMS-RC
	18	.800 (20.32)	.920 (23.36)	S5718-ND	2.59	21.46	136.90	NPPC092KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5719-ND	2.63	21.75	138.75	NPPC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5720-ND	2.70	22.33	142.45	NPPC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5721-ND	2.91	24.07	153.55	NPPC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5722-ND	3.19	26.39	168.35	NPPC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5723-ND	3.43	28.42	181.30	NPPC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5724-ND	3.68	30.45	194.25	NPPC152KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5726-ND	4.03	33.35	212.75	NPPC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5727-ND	4.27	35.38	225.70	NPPC182KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5729-ND	4.73	39.15	249.75	NPPC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5730-ND	4.90	40.60	259.00	NPPC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5731-ND	5.15	42.63	271.95	NPPC222KFMS-RC
Gold	46	2.20 (55.88)	2.32 (58.92)	S5732-ND	5.36	44.37	283.05	NPPC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5733-ND	5.60	46.40	296.00	NPPC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5734-ND	5.85	48.43	308.95	NPPC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5735-ND	6.09	50.46	321.90	NPPC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5736-ND	6.30	52.20	333.00	NPPC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5737-ND	6.55	54.23	345.95	NPPC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5738-ND	6.79	56.26	358.90	NPPC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5739-ND	7.00	58.00	370.00	NPPC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5740-ND	7.25	60.03	382.95	NPPC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5741-ND	7.49	62.06	395.90	NPPC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5742-ND	7.70	63.80	407.00	NPPC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5743-ND	7.95	65.83	419.95	NPPC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5744-ND	8.19	67.86	432.90	NPPC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5745-ND	8.40	69.60	444.00	NPPC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5746-ND	8.65	71.63	456.95	NPPC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5747-ND	8.89	73.66	469.90	NPPC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5748-ND	9.10	75.40	481.00	NPPC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5749-ND	9.35	77.43	493.95	NPPC402KFMS-RC

.1” (2.54mm) SMT Male Headers

RoHS COMPLIANT

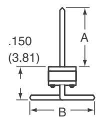

Single Straight

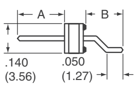

Single Right Angle

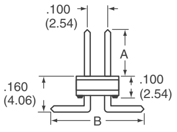

Dual Straight

Features: • .025” (.64mm) square pins • Available in 36-pin version or 1 ~ 35 size to meet your application • Temperature Range: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials: • Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: GEC – .00010” Tin; GBC – .000010” Gold; **Tail**: .00010” Tin

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight SMT (36 Pins)							
Tin	0.230 (5.84)	0.320 (8.13)	S1013E-36-ND	2.88	25.76	212.10	GEC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1023E-36-ND	3.28	29.33	241.50	GEC36SFBN-M30
Gold	0.230 (5.84)	0.320 (8.13)	S1033E-36-ND	3.36	30.09	247.80	GBC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1043E-36-ND	3.96	35.45	291.90	GBC36SFBN-M30
Single Row Right-Angle SMT (36 Pins)							
Tin	0.230 (5.84)	0.180 (4.57)	S1113E-36-ND	3.28	29.33	241.50	GEC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1123E-36-ND	3.48	31.11	256.20	GEC36SGSN-M89
Gold	0.230 (5.84)	0.180 (4.57)	S1133E-36-ND	4.62	41.31	340.20	GBC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1143E-36-ND	3.85	34.43	283.50	GBC36SGSN-M89
Dual Row Straight SMT (72 Pins)							
Tin	0.230 (5.84)	0.420 (10.69)	S2331E-36-ND	4.25	38.00	312.90	GEC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2341E-36-ND	5.36	47.94	394.80	GEC36DFBN-M30
Gold	0.230 (5.84)	0.420 (10.69)	S2351E-36-ND	5.13	45.90	378.00	GBC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2361E-36-ND	6.61	59.16	487.20	GBC36DFBN-M30

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1	STEP 2	STEP 3
Digi-Key Part No.	Base Price	Pin Adder
Single Row Straight (36 Pins)		
S1013E-XX-ND	1.57	.07
S1023E-XX-ND	1.67	.08
S1033E-XX-ND	1.74	.08
S1043E-XX-ND	2.01	.09
Single Row Right-Angle (36 Pins)		
S1113E-XX-ND	1.28	.06
S1123E-XX-ND	1.46	.06
S1133E-XX-ND	1.62	.09
S1143E-XX-ND	1.50	.07
Dual Row Straight (72 Pins)		
S2331E-XX-ND	1.94	.10
S2341E-XX-ND	2.45	.12
S2351E-XX-ND	2.20	.12
S2361E-XX-ND	2.75	.15

HOW TO ORDER:
4 EASY STEPS

How do I order an S1013E single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

S □□□□□ - □□ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate “Base Price” of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the “Pin Adder” of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	S1013E-16-ND
Step 2.	1.57
Step 3.	16 x .07 = 1.12
Step 4.	Your Cost = $2.69

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

.1” (2.54mm) Headers

RoHS COMPLIANT

Male Shrouded Box Headers: Specifications: • Operating Temperature: -40° ~ 85°C (SBH11-NBPC-D: -40° ~ 105°C) • Processing Temperature: 230°C for 60 seconds maximum (260°C, 10 seconds) • UL Flammability Rating: 94V-0 • Voltage Rating: 20mΩ maximum • Current Rating: 3A per contact • Voltage Drop: 500VAC • Insulation Resistance: 1000MΩ

Female Shrouded Box Headers: Specifications: • Operating Temperature: -40° ~ 105°C • Processing Temperature: 230°C for 60 seconds maximum (260°C, 10 seconds) • UL Flammability Rating: 94V-0 • Voltage Rating: 20mΩ maximum • Current Rating: 3A per contact • Dielectric Withstanding: 500VAC • Insulation Resistance: 1000MΩ

Fig. 1

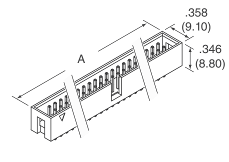

Fig. 2

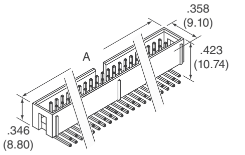

Fig. 3

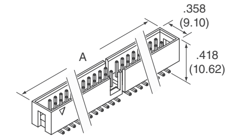

Fig. 4

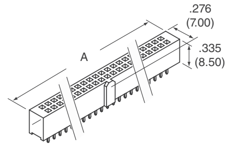

Fig. 5

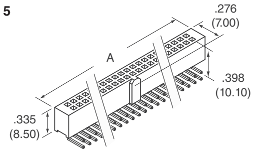

Contact Finish	No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			Sullins Part No.
				1	25	100	
Fig. 1 — Dual Row Male Headers, Straight							
Gold	10	0.793 (20.14)	S9169-ND	.29	6.60	18.70	SBH11-PBPC-D05-ST-BK
	14	0.993 (25.22)	S9170-ND	.32	7.20	20.40	SBH11-PBPC-D07-ST-BK
	16	1.094 (27.80)	S9171-ND	.32	7.20	20.40	SBH11-PBPC-D08-ST-BK
Gold	20	1.294 (32.88)	S9172-ND	.42	9.60	27.20	SBH11-PBPC-D10-ST-BK
	26	1.594 (40.50)	S9173-ND	.50	11.40	32.30	SBH11-PBPC-D13-ST-BK
	34	1.996 (50.70)	S9174-ND	.58	13.20	37.40	SBH11-PBPC-D17-ST-BK
	40	2.295 (58.30)	S9175-ND	.61	13.80	39.10	SBH11-PBPC-D20-ST-BK
	50	2.797 (71.05)	S9176-ND	.87	19.80	56.10	SBH11-PBPC-D25-ST-BK
Fig. 2 — Dual Row Male Headers, Right Angle							
Gold	10	0.793 (20.14)	S9177-ND	.48	10.80	30.60	SBH11-PBPC-D05-RA-BK
	14	0.993 (25.22)	S9178-ND	.58	13.20	37.40	SBH11-PBPC-D07-RA-BK
	16	1.094 (27.80)	S9179-ND	.61	13.80	39.10	SBH11-PBPC-D08-RA-BK
	20	1.294 (32.88)	S9180-ND	.72	16.20	45.90	SBH11-PBPC-D10-RA-BK
	26	1.594 (40.50)	S9181-ND	.82	18.60	52.70	SBH11-PBPC-D13-RA-BK
	34	1.996 (50.70)	S9182-ND	1.03	23.40	66.30	SBH11-PBPC-D17-RA-BK
	40	2.295 (58.30)	S9183-ND	1.17	26.40	74.80	SBH11-PBPC-D20-RA-BK
	50	2.797 (71.05)	S9184-ND	1.43	32.40	91.80	SBH11-PBPC-D25-RA-BK
Fig. 3 — Dual Row Male Headers, SMT							
Gold	10	0.793 (20.14)	S9185-ND	.90	20.40	57.80	SBH11-NBPC-D05-SM-BK
	14	0.993 (25.22)	S9186-ND	1.01	22.80	64.60	SBH11-NBPC-D07-SM-BK
	16	1.094 (27.80)	S9187-ND	1.01	22.80	64.60	SBH11-NBPC-D08-SM-BK
	20	1.294 (32.88)	S9188-ND	1.06	24.00	68.00	SBH11-NBPC-D10-SM-BK
	24	1.509 (38.32)	S9189-ND	1.22	27.60	78.20	SBH11-NBPC-D12-SM-BK
	26	1.594 (40.50)	S9190-ND	1.22	27.60	78.20	SBH11-NBPC-D13-SM-BK
	34	1.996 (50.70)	S9191-ND	1.35	30.60	86.70	SBH11-NBPC-D17-SM-BK
	40	2.295 (58.30)	S9192-ND	1.56	35.40	100.30	SBH11-NBPC-D20-SM-BK
	50	2.797 (71.05)	S9193-ND	1.78	40.20	113.90	SBH11-NBPC-D25-SM-BK
Fig. 4 — Dual Row Female Headers, Straight							
Gold	10	0.700 (17.78)	S9194-ND	.56	12.60	35.70	SFH11-PBPC-D05-ST-BK
	14	0.900 (22.86)	S9195-ND	.77	17.40	49.30	SFH11-PBPC-D07-ST-BK
	16	1.000 (25.40)	S9196-ND	.90	20.40	57.80	SFH11-PBPC-D08-ST-BK
	20	1.200 (30.48)	S9197-ND	.98	22.20	62.90	SFH11-PBPC-D10-ST-BK
	26	1.500 (38.10)	S9198-ND	1.27	28.80	81.60	SFH11-PBPC-D13-ST-BK
	34	1.900 (48.26)	S9199-ND	1.67	37.80	107.10	SFH11-PBPC-D17-ST-BK
	40	2.200 (55.88)	S9200-ND	1.80	40.80	115.60	SFH11-PBPC-D20-ST-BK
	50	2.700 (68.58)	S9201-ND	2.25	51.00	144.50	SFH11-PBPC-D25-ST-BK
Fig. 5 — Dual Row Female Headers, Right Angle							
Gold	10	0.700 (17.78)	S9202-ND	.66	15.00	42.50	SFH11-PBPC-D05-RA-BK
	14	0.900 (22.86)	S9203-ND	.93	21.00	59.50	SFH11-PBPC-D07-RA-BK
	16	1.000 (25.40)	S9204-ND	1.06	24.00	68.00	SFH11-PBPC-D08-RA-BK
	20	1.200 (30.48)	S9205-ND	1.27	28.80	81.60	SFH11-PBPC-D10-RA-BK
	26	1.500 (38.10)	S9206-ND	1.64	37.20	105.40	SFH11-PBPC-D13-RA-BK
	34	1.900 (48.26)	S9207-ND	2.15	48.60	137.70	SFH11-PBPC-D17-RA-BK
	40	2.200 (55.88)	S9208-ND	2.39	54.00	153.00	SFH11-PBPC-D20-RA-BK
	50	2.700 (68.58)	S9209-ND	2.81	63.60	180.20	SFH11-PBPC-D25-RA-BK

.1” (2.54mm) Male Headers

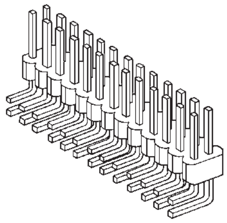

Available in 1 to 36 Pin Versions!

Features: • .025” (.64mm) square pins • Available in 36-pin version or 1 ~ 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes **Materials:** • Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: PEC — .00010” Tin; PBC — .000010”; **Tail**: .00010” Tin

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Single Row Straight (36 Pins) — RoHS Compliant							
Tin	.230 (5.84)	.120 (3.05)	S1012E-36-ND	1.17	10.46	86.10	PEC36SAAN
	.230 (5.84)	.230 (5.84)	S1022E-36-ND	2.05	18.36	151.20	PEC36SABN
	.230 (5.84)	.320 (8.13)	S1032E-36-ND	2.19	19.64	161.70	PEC36SACN
	.230 (5.84)	.420 (10.67)	S1042E-36-ND	2.37	21.17	174.30	PEC36SADN
	.230 (5.84)	.520 (13.21)	S1052E-36-ND	2.59	23.21	191.10	PEC36SAEN
	.230 (5.84)	.620 (15.75)	S1062E-36-ND	3.22	28.82	237.30	PEC36SAFN
	.230 (5.84)	.720 (18.29)	S1072E-36-ND	3.36	30.09	247.80	PEC36SAGN
	.230 (5.84)	.820 (20.83)	S1082E-36-ND	3.56	31.88	262.50	PEC36SAHN
	.318 (8.08)	.120 (3.05)	S1212E-36-ND	1.51	13.52	111.30	PEC36SFAN
	.318 (8.08)	.220 (5.59)	S1222E-36-ND	2.39	21.42	176.40	PEC36SFBN
	.318 (8.08)	.320 (8.13)	S1232E-36-ND	2.65	23.72	195.30	PEC36SFCN
	.318 (8.08)	.420 (10.67)	S1242E-36-ND	2.82	25.25	207.90	PEC36SFDN
	.318 (8.08)	.520 (13.21)	S1252E-36-ND	3.82	34.17	281.40	PEC36SFEN
Gold	.230 (5.84)	.120 (3.05)	S1011E-36-ND	1.51	13.52	111.30	PBC36SAAN
	.230 (5.84)	.230 (5.84)	S1021E-36-ND	2.45	21.93	180.60	PBC36SABN
	.230 (5.84)	.320 (8.13)	S1031E-36-ND	2.68	23.97	197.40	PBC36SACN
	.230 (5.84)	.420 (10.67)	S1041E-36-ND	2.82	25.25	207.90	PBC36SADN
	.230 (5.84)	.520 (13.21)	S1051E-36-ND	2.99	26.78	220.50	PBC36SAEN
	.230 (5.84)	.620 (15.75)	S1061E-36-ND	3.65	32.64	268.80	PBC36SAFN
	.230 (5.84)	.720 (18.29)	S1071E-36-ND	3.88	34.68	285.60	PBC36SAGN
	.230 (5.84)	.820 (20.83)	S1081E-36-ND	4.05	36.21	298.20	PBC36SAHN
	.318 (8.08)	.120 (3.05)	S1211E-36-ND	1.85	16.58	136.50	PBC36SFAN
	.318 (8.08)	.220 (5.59)	S1221E-36-ND	2.96	26.52	218.40	PBC36SFBN
	.318 (8.08)	.320 (8.13)	S1231E-36-ND	3.22	28.82	237.30	PBC36SFCN
	.318 (8.08)	.420 (10.67)	S1241E-36-ND	3.36	30.09	247.80	PBC36SFDN
	.318 (8.08)	.520 (13.21)	S1251E-36-ND	4.45	39.78	327.60	PBC36SFEN
Single Row Right-Angle (36 Pins)							
Tin	.230 (5.84)	.100 (2.54)	S1112E-36-ND◆	1.71	15.30	126.00	PEC36SBAN
	.230 (5.84)	.200 (5.08)	S1122E-36-ND◆	2.22	19.89	163.80	PEC36SBBN
	.230 (5.84)	.300 (7.62)	S1132E-36-ND◆	3.25	29.07	239.40	PEC36SBCN
	.230 (5.84)	.400 (10.16)	S1142E-36-ND◆	4.33	38.76	319.20	PEC36SBDN
	.230 (5.84)	.500 (12.70)	S1152E-36-ND◆	4.62	41.31	340.20	PEC36SBEN
	.318 (8.08)	.100 (2.54)	S1312E-36-ND◆	2.22	19.89	163.80	PEC36SGAN
	.318 (8.08)	.200 (5.08)	S1322E-36-ND◆	3.99	35.70	294.00	PEC36SGBN
	.318 (8.08)	.200 (5.08)	S1322-36-ND	3.48	31.11	256.20	PTC36SGBN
Gold	.230 (5.84)	.100 (2.54)	S1111E-36-ND◆	2.11	18.87	155.40	PBC36SBAN
	.230 (5.84)	.200 (5.08)	S1121E-36-ND◆	2.65	23.72	195.30	PBC36SBBN
	.230 (5.84)	.300 (7.62)	S1131E-36-ND◆	3.73	33.41	275.10	PBC36SBCN
	.230 (5.84)	.400 (10.16)	S1141E-36-ND◆	4.90	43.86	361.20	PBC36SBDN
	.230 (5.84)	.500 (12.70)	S1151E-36-ND◆	5.19	46.41	382.20	PBC36SBEN
	.318 (8.08)	.100 (2.54)	S1311E-36-ND◆	2.71	24.23	199.50	PBC36SGAN
	.318 (8.08)	.200 (5.08)	S1321E-36-ND◆	4.62	41.31	340.20	PBC36SGBN
Dual Row Straight (72 Pins) — RoHS Compliant							
Tin	.230 (5.84)	.120 (3.05)	S2012E-36-ND	2.17	19.38	159.60	PEC36DAAN
	.230 (5.84)	.230 5.84)	S2022E-36-ND	3.22	28.82	237.30	PEC36DABN
	.230 (5.84)	.320 (8.13)	S2032E-36-ND	4.56	40.80	336.00	PEC36DACN
	.230 (5.84)	.420 (10.67)	S2042E-36-ND	4.96	44.37	365.40	PEC36DADN
	.230 (5.84)	.520 (13.21)	S2052E-36-ND	5.33	47.69	392.70	PEC36DAEN
	.230 (5.84)	.620 (15.75)	S2062E-36-ND	6.87	61.46	506.10	PEC36DAFN
	.230 (5.84)	.720 (18.29)	S2072E-36-ND	7.30	65.28	537.60	PEC36DAGN
	.230 (5.84)	.820 (20.83)	S2082E-36-ND	7.75	69.36	571.20	PEC36DAHN
	.318 (8.08)	.120 (3.05)	S2212E-36-ND	2.71	24.23	199.50	PEC36DFAN
	.318 (8.08)	.220 (5.59)	S2222E-36-ND	4.19	37.49	308.70	PEC36DFBN
	.318 (8.08)	.320 (8.13)	S2232E-36-ND	4.59	41.06	338.10	PEC36DFCN
	.318 (8.08)	.420 (10.67)	S2242E-36-ND	4.99	44.63	367.50	PEC36DFDN
	.318 (8.08)	.520 (13.21)	S2252E-36-ND	6.44	57.63	474.60	PEC36DFEN
Gold	.230 (5.84)	.120 (3.05)	S2011E-36-ND	2.71	24.23	199.50	PBC36DAAN
	.230 (5.84)	.230 (5.84)	S2021E-36-ND	3.99	35.70	294.00	PBC36DABN
	.230 (5.84)	.320 (8.13)	S2031E-36-ND	5.56	49.73	409.50	PBC36DACN
	.230 (5.84)	.420 (10.67)	S2041E-36-ND	5.93	53.04	436.80	PBC36DADN
	.230 (5.84)	.520 (13.21)	S2051E-36-ND	6.33	56.61	466.20	PBC36DAEN
	.230 (5.84)	.620 (15.75)	S2061E-36-ND	7.95	71.15	585.90	PBC36DAFN
	.230 (5.84)	.720 (18.29)	S2071E-36-ND	8.41	75.23	619.50	PBC36DAGN
	.230 (5.84)	.820 (20.83)	S2081E-36-ND	8.86	79.31	653.10	PBC36DAHN
	.318 (8.08)	.120 (3.05)	S2211E-36-ND	3.48	31.11	256.20	PBC36DFAN
	.318 (8.08)	.220 (5.59)	S2221E-36-ND	5.30	47.43	390.60	PBC36DFBN
	.318 (8.08)	.320 (8.13)	S2231E-36-ND	5.70	51.00	420.00	PBC36DFCN
	.318 (8.08)	.420 (10.67)	S2241E-36-ND	6.13	54.83	451.50	PBC36DFDN
	.318 (8.08)	.520 (13.21)	S2251E-36-ND	7.70	68.85	567.00	PBC36DFEN
Dual Row Right-Angle (72 Pins) — RoHS Compliant							
Tin	.230 (5.84)	.100 (2.54)	S2112E-36-ND	3.25	29.07	239.40	PEC36DBAN
	.230 (5.84)	.200 (5.08)	S2122E-36-ND	4.65	41.57	342.30	PEC36DBBN
	.230 (5.84)	.300 (7.62)	S2132E-36-ND	7.01	62.73	516.60	PEC36DBCN
	.230 (5.84)	.400 (10.16)	S2142E-36-ND	7.75	69.36	571.20	PEC36DBDN
	.230 (5.84)	.500 (12.70)	S2152E-36-ND	8.44	75.48	621.60	PEC36DBEN
	.318 (8.08)	.100 (2.54)	S2312E-36-ND	6.16	55.08	453.60	PEC36DGAN
	.318 (8.08)	.200 (5.08)	S2322E-36-ND	7.58	67.83	558.60	PEC36DGBN
Gold	.230 (5.84)	.100 (2.54)	S2111E-36-ND	3.93	35.19	289.80	PBC36DBAN
	.230 (5.84)	.200 (5.08)	S2121E-36-ND	5.53	49.47	407.40	PBC36DBBN
	.230 (5.84)	.300 (7.62)	S2131E-36-ND	8.12	72.68	598.50	PBC36DBCN
	.230 (5.84)	.400 (10.16)	S2141E-36-ND	8.84	79.05	651.00	PBC36DBDN
	.230 (5.84)	.500 (12.70)	S2151E-36-ND	5.70	51.00	420.00	PBC36DBEN
	.318 (8.08)	.100 (2.54)	S2311E-36-ND	7.27	65.03	535.50	PBC36DGAN
	.318 (8.08)	.200 (5.08)	S2321E-36-ND	8.86	79.31	653.10	PBC36DGBN
Shorting Jumpers							
Tin Au Flash Gold	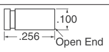		S9000-ND S9001-ND S9002-ND	— — —	.87 .58 1.45	— — —	STC02SYAN SPC02SYAN SSC02SYAN

◆ ***RoHS Compliant***

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1 Digi-Key Part No.†	STEP 2 Base Price	STEP 3 Pin Adder
Single Row Straight (36 Pins) — RoHS Compliant		
S1012E-XX-ND	.57	.02
S1022E-XX-ND	.77	.04
S1032E-XX-ND	.95	.04
S1042E-XX-ND	1.13	.04
S1052E-XX-ND	1.00	.05
S1062E-XX-ND	1.31	.06
S1072E-XX-ND	1.49	.06
S1082E-XX-ND	1.36	.07
S1212E-XX-ND	.55	.03
S1222E-XX-ND	1.17	.04
S1232E-XX-ND	1.06	.05
S1242E-XX-ND	1.27	.05
S1252E-XX-ND	1.63	.07
S1011E-XX-ND	.55	.03
S1021E-XX-ND	.88	.05
S1031E-XX-ND	1.09	.05
S1041E-XX-ND	1.27	.05
S1051E-XX-ND	1.10	.06
S1061E-XX-ND	1.45	.07
S1071E-XX-ND	1.68	.07
S1081E-XX-ND	1.52	.08
S1211E-XX-ND	.94	.03
S1221E-XX-ND	1.07	.06
S1231E-XX-ND	1.31	.06
S1241E-XX-ND	1.49	.06
S1251E-XX-ND	1.59	.09
Single Row Right-Angle (36 Pins)		
S1112E-XX-ND◆	.79	.03
S1122E-XX-ND◆	.99	.04
S1132E-XX-ND◆	1.35	.06
S1142E-XX-ND◆	1.82	.08
S1152E-XX-ND◆	1.78	.09
S1312E-XX-ND◆	.99	.04
S1322E-XX-ND◆	1.46	.08
S1322-XX-ND	1.24	.07
S1111E-XX-ND◆	.84	.04
S1121E-XX-ND◆	1.06	.05
S1131E-XX-ND◆	1.50	.07
S1141E-XX-ND◆	1.73	.10
S1151E-XX-ND◆	2.03	.10
S1311E-XX-ND◆	1.12	.05
S1321E-XX-ND◆	1.78	.09
Dual Row Straight (72 Pins) — RoHS Compliant		
S2012E-XX-ND	.90	.04
S2022E-XX-ND	1.31	.06
S2032E-XX-ND	1.72	.09
S2042E-XX-ND	1.79	.10
S2052E-XX-ND	2.18	.10
S2062E-XX-ND	2.76	.13
S2072E-XX-ND	2.86	.14
S2082E-XX-ND	3.00	.15
S2212E-XX-ND	1.12	.05
S2222E-XX-ND	1.67	.08
S2232E-XX-ND	1.75	.09
S2242E-XX-ND	1.82	.10
S2252E-XX-ND	2.31	.13
S2011E-XX-ND	1.15	.05
S2021E-XX-ND	1.46	.08
S2031E-XX-ND	2.08	.11
S2041E-XX-ND	2.12	.12
S2051E-XX-ND	2.54	.12
S2061E-XX-ND	2.86	.16
S2071E-XX-ND	3.00	.17
S2081E-XX-ND	3.12	.18
S2211E-XX-ND	1.27	.07
S2221E-XX-ND	2.15	.10
S2231E-XX-ND	2.22	.11
S2241E-XX-ND	2.33	.12
S2251E-XX-ND	2.93	.15
Dual Row Right-Angle (72 Pins) — RoHS Compliant		
S2112E-XX-ND	1.35	.06
S2122E-XX-ND	1.80	.09
S2132E-XX-ND	2.56	.14
S2142E-XX-ND	3.00	.15
S2152E-XX-ND	3.02	.17
S2312E-XX-ND	2.35	.12
S2322E-XX-ND	2.82	.15
S2111E-XX-ND	1.40	.08
S2121E-XX-ND	2.04	.11
S2131E-XX-ND	3.07	.16
S2141E-XX-ND	3.44	.17
S2151E-XX-ND	3.47	.19
S2311E-XX-ND	2.84	.14
S2321E-XX-ND	3.12	.18

† Replace XX in the Digi-Key part number with your desired number of pins per row.

How To Order — 4 Easy Steps

How do I order an S1012E single row header with 16 pins?

Call Digi-Key where you’ll receive the price.

or

Determine the cost yourself

S ☐☐☐☐ E - ☐☐ - ND

Base Part Number

Number of Desired Pins per row

Step 1. **Select needed “Digi-Key Part Number” and number of pins desired.**

Step 2. **Begin with appropriate “Base Price” of your selected Part Number (refer to chart).**

Step 3. **Multiply the number of pins per row you desire by “Pin Adder” of your selected Part Number (refer to chart).**

Step 4. **Add Step 2 and Step 3 together for Final Cost.**

	Our Example	*Your Digi-Key Part Number*
Step 1.	S1012E-16-ND	S _ _ _ _ E - _ _ - ND
Step 2.	.57	_____
Step 3.	16 x .02 = .32	___ x ___ = _____
Step 4.	Your Cost = $.89	Your Cost = _____

NOTE: For quantities of 10 or more, call DIGI-KEY.

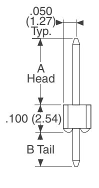

Single Straight

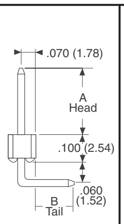

Single Right Angle

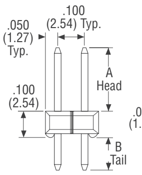

Dual Straight

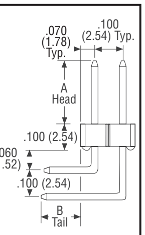

Dual Right Angle

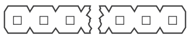

Single Row

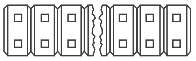

Dual Row

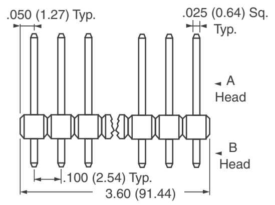

BergStik™ .100” (2.54mm) Headers

Fig. 1

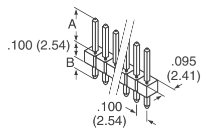

Fig. 2

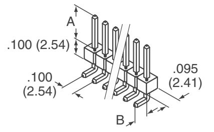

Fig. 3

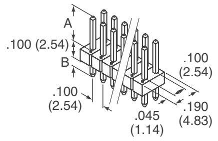

Fig. 4

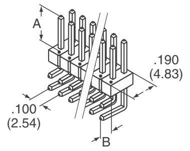

Fig. 5

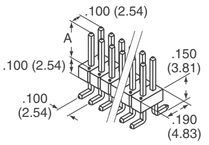

Fig. 6

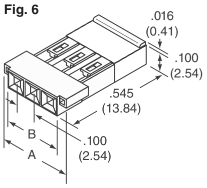

Fig. 7

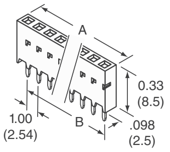

Fig. 8

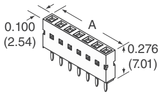

Fig. 9

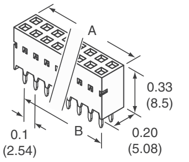

Fig. 10

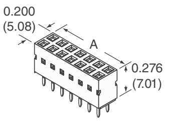

Fig. 11

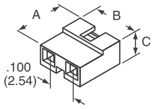

Fig.	No. of Positions	Plating	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing		FCI Part No.
			A	B		1	25	
Straight Single Row								
1	1	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3460-ND	.20	2.30	68000-101HLF
	2	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3500-ND	1.10	15.06	68000-102HLF
	3	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3461-ND	.21	2.37	68000-103HLF
	4	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3248-ND	.33	3.59	68000-104HLF
	5	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3462-ND	.47	5.59	68000-105HLF
	6	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3249-ND	.54	6.47	68000-106HLF
	8	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3400-ND	2.66	39.94	68000-108HLF
	9	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3463-ND	.76	9.25	68000-109HLF
	10	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3250-ND	.52	6.18	68000-110HLF
	12	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3251-ND	.85	10.74	68000-112HLF
	16	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3252-ND	1.11	15.30	68000-116HLF
	20	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3253-ND	1.17	16.13	68000-120HLF
	26	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3254-ND	1.48	20.45	68000-126HLF
	36	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3501-ND	1.77	24.52	68000-136HLF
	2	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3502-ND	.34	3.98	68000-202HLF
	3	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3464-ND	.22	2.39	68000-203HLF
	4	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3255-ND	.34	3.94	68000-204HLF
	6	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3256-ND	.46	5.58	68000-206HLF
	8	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3257-ND	.55	6.71	68000-208HLF
	10	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3258-ND	.69	8.66	68000-210HLF
	12	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3259-ND	.77	9.65	68000-212HLF
	16	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3260-ND	.97	12.17	68000-216HLF
	26	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3261-ND	1.37	18.46	68000-226HLF
	36	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3465-ND	1.08	14.18	68000-236HLF
	1	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3466-ND	.13	1.66	68000-401HLF
	2	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3503-ND	2.22	31.76	68000-402HLF
	3	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3504-ND	2.37	35.08	68000-403HLF
	4	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3262-ND	.35	4.06	68000-404HLF
	6	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3263-ND	.35	4.05	68000-406HLF
	8	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3264-ND	.41	4.75	68000-408HLF
	10	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3265-ND	.57	6.99	68000-410HLF
	12	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3266-ND	.67	8.39	68000-412HLF
	16	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3267-ND	.86	10.36	68000-416HLF
	18	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3268-ND	.93	11.66	68000-418HLF
	20	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3269-ND	1.01	12.58	68000-420HLF
	26	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3270-ND	1.16	15.99	68000-426HLF
	36	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3505-ND	1.03	13.15	68000-436HLF
	1	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3467-ND	.19	2.22	68001-101HLF
	2	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3506-ND	1.45	19.46	68001-102HLF
	3	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3468-ND	.36	4.23	68001-103HLF
	4	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3271-ND	.43	5.16	68001-104HLF
	6	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3272-ND	.47	5.55	68001-106HLF
	8	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3273-ND	.76	9.35	68001-108HLF
	10	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3274-ND	.86	10.33	68001-110HLF
	12	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3275-ND	.57	6.97	68001-112HLF
	16	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3276-ND	1.16	15.99	68001-116HLF
	20	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3401-ND	1.09	14.93	68001-120HLF
	26	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3277-ND	1.41	18.95	68001-126HLF
	36	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2222-ND	1.62	23.16	68001-136HLF
	2	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3469-ND	.26	2.81	68001-202HLF
	3	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3470-ND	.31	3.39	68001-203HLF
	4	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3402-ND	.52	6.01	68001-204HLF
	6	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3403-ND	.64	7.79	68001-206HLF
	8	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3278-ND	.92	11.32	68001-208HLF
	10	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3279-ND	.64	8.05	68001-210HLF
	12	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3280-ND	.77	9.65	68001-212HLF
	16	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3281-ND	.97	12.07	68001-216HLF
	20	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3282-ND	1.07	14.76	68001-220HLF
	26	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3283-ND	1.21	16.57	68001-226HLF
	36	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2223-ND	1.56	21.79	68001-236HLF
	2	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3507-ND	1.26	17.72	68001-402HLF
	3	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3471-ND	.30	3.36	68001-403HLF
	4	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3404-ND	2.07	30.41	68001-404HLF
	6	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3284-ND	.50	5.80	68001-406HLF
	8	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3405-ND	2.67	40.06	68001-408HLF
	10	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3285-ND	.57	6.99	68001-410HLF
	12	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3286-ND	.63	7.84	68001-412HLF
	16	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3287-ND	.85	10.73	68001-416HLF
	20	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3288-ND	1.01	12.58	68001-420HLF
	26	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3289-ND	1.21	16.57	68001-426HLF
	36	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-2224-ND	1.21	16.70	68001-436HLF
	4	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3290-ND	.38	4.56	68002-104HLF
	6	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3291-ND	.53	6.10	68002-106HLF
	8	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3292-ND	.74	9.04	68002-108HLF
	10	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3293-ND	.88	10.73	68002-110HLF
	12	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3294-ND	.80	10.05	68002-112HLF
	16	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3295-ND	1.03	13.22	68002-116HLF
	20	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3296-ND	1.12	15.35	68002-120HLF
	26	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3297-ND	1.41	19.04	68002-126HLF
	4	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3298-ND	.34	4.02	68002-204HLF
	6	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3299-ND	.48	5.68	68002-206HLF
	8	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3300-ND	.54	6.53	68002-208HLF
	10	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3301-ND	.64	7.86	68002-210HLF
	12	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3302-ND	.78	9.61	68002-212HLF
	16	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3303-ND	.97	12.07	68002-216HLF
	26	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3304-ND	1.35	18.21	68002-226HLF
	36	15µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3508-ND	1.91	27.23	68002-236HLF
	4	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3305-ND	.30	3.35	68002-404HLF
	6	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3306-ND	.46	5.50	68002-406HLF
	8	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3406-ND	.42	4.97	68002-408HLF
	10	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3307-ND	.57	6.99	68002-410HLF
	12	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3308-ND	.67	8.39	68002-412HLF
	16	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3309-ND	.92	11.55	68002-416HLF
	20	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3310-ND	1.01	12.58	68002-420HLF
	26	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3311-ND	1.35	18.21	68002-426HLF
	36	100µ” Tin	0.500 (12.70)	0.120 (3.05)	609-3490-ND	1.90	27.09	69152-436HLF
	36	100µ” Tin	0.318 (8.08)	0.120 (3.05)	609-3510-ND	1.52	21.35	78511-436HLF
Right Angle Single Row								
2	36	30µ” Gold	0.230 (5.84)	0.090 (2.29)	609-3497-ND	2.13	31.29	68015-136HLF
	36	100µ” Tin	0.230 (5.84)	0.090 (2.29)	609-3498-ND	2.00	29.43	68015-436HLF
	4	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3312-ND	.55	6.44	68016-104HLF
	6	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3313-ND	.42	4.85	68016-106HLF
	8	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3314-ND	1.07	14.10	68016-108HLF
	10	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3315-ND	.88	10.89	68016-110HLF
	12	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3316-ND	1.37	18.43	68016-112HLF
	16	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3317-ND	.90	11.06	68016-116HLF
	26	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3318-ND	2.31	34.20	68016-126HLF

(Continued)

BergStik™ .100” (2.54mm) Headers *(Cont.)*

Fig.	No. of Positions	Plating	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing		FCI Part No.
			A	B		1	25	
2	36	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2225-ND	2.53	34.24	68016-136HLF
	4	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3319-ND	.29	3.24	68016-204HLF
	6	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3320-ND	.88	10.79	68016-206HLF
	8	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3321-ND	.50	5.75	68016-208HLF
	10	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3322-ND	1.00	12.49	68016-210HLF
	12	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3323-ND	1.11	14.14	68016-212HLF
	16	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3324-ND	1.43	19.81	68016-216HLF
	20	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3325-ND	1.78	24.10	68016-220HLF
	26	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3326-ND	2.08	30.66	68016-226HLF
	36	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2226-ND	2.00	27.77	68016-236HLF
	4	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3407-ND	1.81	25.14	68016-404HLF
	6	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3327-ND	.74	9.23	68016-406HLF
	8	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3328-ND	.93	11.66	68016-408HLF
	10	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3329-ND	1.04	13.56	68016-410HLF
	12	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3330-ND	.45	5.39	68016-412HLF
	16	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3331-ND	1.38	18.64	68016-416HLF
	20	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3408-ND	1.60	21.57	68016-420HLF
	26	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3332-ND	1.91	27.29	68016-426HLF
	36	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-2227-ND	1.44	19.44	68016-436HLF
Straight Dual Row								
3	4	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3201-ND	.41	4.74	67996-104HLF
	6	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3202-ND	.51	6.08	67996-106HLF
	8	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3203-ND	3.56	56.70	67996-108HLF
	10	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3387-ND	.74	9.41	67996-110HLF
	12	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3204-ND	.89	10.93	67996-112HLF
	14	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3491-ND	.98	12.26	67996-114HLF
	16	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3205-ND	1.14	15.72	67996-116HLF
	20	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3206-ND	1.20	16.57	67996-120HLF
	24	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3207-ND	1.44	19.32	67996-124HLF
	26	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3388-ND	5.13	81.69	67996-126HLF
	30	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3456-ND	1.67	22.55	67996-130HLF
	32	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3208-ND	1.76	24.49	67996-132HLF
	72	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3492-ND	3.04	46.52	67996-172HLF
	4	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3209-ND	.34	4.01	67996-204HLF
	6	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3210-ND	.43	5.12	67996-206HLF
	8	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3211-ND	1.19	16.38	67996-208HLF
	10	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3212-ND	.86	10.57	67996-210HLF
	12	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3213-ND	.73	8.71	67996-212HLF
	16	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3389-ND	5.11	79.82	67996-216HLF
	20	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3214-ND	1.05	13.73	67996-220HLF
	24	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3215-ND	1.24	16.98	67996-224HLF
	26	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3216-ND	5.16	80.64	67996-226HLF
	32	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3217-ND	1.48	20.49	67996-232HLF
	72	15µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3493-ND	2.47	37.01	67996-272HLF
	4	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3390-ND	.33	3.69	67996-404HLF
	6	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3218-ND	.40	4.63	67996-406HLF
	8	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3391-ND	.47	5.51	67996-408HLF
	10	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3392-ND	2.62	39.27	67996-410HLF
	12	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3219-ND	.54	6.55	67996-412HLF
	16	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3220-ND	.77	9.68	67996-416HLF
	20	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3221-ND	.90	11.03	67996-420HLF
	24	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3222-ND	1.04	13.54	67996-424HLF
	26	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3223-ND	1.09	14.40	67996-426HLF
	32	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3224-ND	1.28	17.58	67996-432HLF
	72	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3494-ND	1.80	24.94	67996-472HLF
	4	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3225-ND	.41	4.91	67997-104HLF
	6	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3393-ND	2.40	34.45	67997-106HLF
	8	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3226-ND	.65	8.06	67997-108HLF
	10	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3394-ND	2.83	43.33	67997-110HLF
	12	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3227-ND	.87	10.60	67997-112HLF
	14	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3457-ND	1.00	12.80	67997-114HLF
	16	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3228-ND	1.08	14.13	67997-116HLF
	20	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3229-ND	5.06	79.02	67997-120HLF
	24	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3230-ND	3.73	52.19	67997-124HLF
	26	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3231-ND	1.69	22.81	67997-126HLF
	32	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3232-ND	1.61	21.75	67997-132HLF
	72	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2219-ND	2.97	44.02	67997-172HLF
	4	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3233-ND	.24	3.30	67997-204HLF
	6	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3234-ND	.45	5.33	67997-206HLF
	8	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3235-ND	.46	5.56	67997-208HLF
	10	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3236-ND	.56	6.93	67997-210HLF
	12	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3237-ND	1.07	13.38	67997-212HLF
	16	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3238-ND	1.05	13.12	67997-216HLF
	20	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3239-ND	1.57	21.76	67997-220HLF
	24	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3395-ND	1.08	14.82	67997-224HLF
	26	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3240-ND	1.21	16.61	67997-226HLF
	32	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3241-ND	1.48	20.49	67997-232HLF
	72	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2220-ND	2.55	37.73	67997-272HLF
	4	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3242-ND	.29	3.21	67997-404HLF
	6	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3396-ND	1.15	15.75	67997-406HLF
	8	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3397-ND	2.81	41.74	67997-408HLF
	10	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3243-ND	.37	4.45	67997-410HLF
	12	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3244-ND	.62	7.62	67997-412HLF
	16	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3398-ND	5.58	92.89	67997-416HLF
	20	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3399-ND	1.03	13.22	67997-420HLF
	24	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3245-ND	1.05	13.71	67997-424HLF
	26	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3246-ND	1.11	14.53	67997-426HLF
	32	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3247-ND	1.27	17.88	67997-432HLF
	72	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-2221-ND	1.32	17.86	67997-472HLF
	4	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3361-ND	1.32	18.66	68602-104HLF
	8	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3362-ND	.45	5.34	68602-108HLF
	10	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3458-ND	.47	5.54	68602-110HLF
	12	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3363-ND	.52	6.31	68602-112HLF
	16	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3364-ND	.66	8.28	68602-116HLF
	20	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3365-ND	1.12	14.69	68602-120HLF
	24	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3366-ND	1.28	17.63	68602-124HLF
	26	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3367-ND	1.29	18.14	68602-126HLF
	32	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3368-ND	1.44	19.36	68602-132HLF
	72	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3495-ND	2.87	43.98	68602-172HLF
	4	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3369-ND	.34	3.76	68602-204HLF
	6	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3370-ND	.45	5.34	68602-206HLF
	8	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3371-ND	.53	6.34	68602-208HLF
	10	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3372-ND	.64	7.89	68602-210HLF
	12	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3373-ND	.76	9.32	68602-212HLF
	16	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3374-ND	.99	12.37	68602-216HLF
	20	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3375-ND	1.10	15.12	68602-220HLF
	24	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3376-ND	1.24	17.08	68602-224HLF
	26	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3377-ND	1.44	19.43	68602-226HLF
	32	30µ” Gold	0.230 (5.84)	0.150 (3.81)	609-3378-ND	1.55	21.74	68602-232HLF
	4	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3379-ND	.34	3.76	68602-404HLF
	8	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3380-ND	.56	6.88	68602-408HLF
	12	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3381-ND	.76	9.32	68602-412HLF
	16	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3382-ND	.78	9.76	68602-416HLF
	20	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3383-ND	1.10	15.12	68602-420HLF
	24	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3384-ND	1.24	17.08	68602-424HLF
	26	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3385-ND	1.11	14.53	68602-426HLF
	32	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3386-ND	1.27	17.88	68602-432HLF
	72	100µ” Tin	0.230 (5.84)	0.150 (3.81)	609-3496-ND	2.15	31.63	68602-472HLF
	72	30µ” Gold	0.318 (8.08)	0.120 (3.05)	609-3488-ND	2.85	42.36	68691-172HLF
	72	100µ” Tin	0.318 (8.08)	0.120 (3.05)	609-3489-ND	1.63	22.08	68691-472HLF
Right Angle Dual Row								
4	72	30µ” Gold	0.230 (5.84)	0.095 (2.41)	609-3499-ND	3.91	60.70	68020-172HLF
	72	100µ” Tin	0.230 (5.84)	0.095 (2.41)	609-3459-ND	1.60	22.41	68020-472HLF
	4	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3333-ND	.32	3.67	68021-104HLF
	6	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3334-ND	.44	5.22	68021-106HLF
	8	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3335-ND	.82	10.33	68021-108HLF
	10	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3409-ND	1.65	22.24	68021-110HLF
	12	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3336-ND	1.77	23.89	68021-112HLF
	16	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3337-ND	.85	10.70	68021-116HLF
	20	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3338-ND	1.05	13.84	68021-120HLF
	24	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3339-ND	1.17	16.13	68021-124HLF
	26	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3340-ND	1.20	16.50	68021-126HLF
	32	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3341-ND	1.33	18.74	68021-132HLF
	72	30µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2228-ND	3.75	57.87	68021-172HLF
	4	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3342-ND	.32	3.70	68021-204HLF
	6	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3343-ND	.44	5.17	68021-206HLF
	8	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3344-ND	.52	6.09	68021-208HLF
	10	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3410-ND	.52	6.14	68021-210HLF
	12	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3345-ND	.92	14.34	68021-212HLF
	16	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3346-ND	.94	12.02	68021-216HLF
	20	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3347-ND	1.05	13.84	68021-220HLF
	24	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3348-ND	1.25	17.25	68021-224HLF
	26	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3349-ND	1.06	14.07	68021-226HLF
	32	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-3350-ND	1.57	21.96	68021-232HLF
	72	15µ” Gold	0.230 (5.84)	0.120 (3.05)	609-2229-ND	3.10	47.55	68021-272HLF
	4	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3351-ND	.32	3.70	68021-404HLF
	6	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3352-ND	.44	5.17	68021-406HLF
	8	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3353-ND	.66	8.30	68021-408HLF
	10	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3354-ND	.35	4.10	68021-410HLF
	12	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3355-ND	.94	11.95	68021-412HLF
	16	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3356-ND	1.11	15.24	68021-416HLF
	20	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3357-ND	1.35	18.20	68021-420HLF
	24	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3358-ND	1.56	21.83	68021-424HLF
	26	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3359-ND	1.67	22.53	68021-426HLF
	32	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-3360-ND	1.57	21.96	68021-432HLF
	72	100µ” Tin	0.230 (5.84)	0.120 (3.05)	609-2230-ND	3.74	54.95	68021-472HLF

(Continued)

BergStik™ .100” (2.54mm) Headers *(Cont.)*

Fig.	No. of Positions	Plating	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Straight Dual Row SMT								
5	40	30µ” Gold	0.230 (5.84)	—	609-2231-ND	1.39	21.49	95157-140LF
	40	15µ” Gold	0.230 (5.84)	—	609-2232-ND	1.40	21.75	95157-240LF
	40	Tin	0.230 (5.84)	—	609-3124-ND	1.09	16.85	95157-440LF
	10	30µ” Gold	0.230 (5.84)	—	609-3483-1-ND	1.38	19.45	95278-101A10LF
	10	30µ” Gold	0.230 (5.84)	—	609-3483-2-ND	180.93/300		95278-101A10LF
	12	30µ” Gold	0.230 (5.84)	—	609-3484-1-ND	1.30	18.28	95278-101A12LF
	12	30µ” Gold	0.230 (5.84)	—	609-3484-2-ND	172.06/300		95278-101A12LF
	14	30µ” Gold	0.230 (5.84)	—	609-3485-1-ND	1.49	18.57	95278-101A14LF
	14	30µ” Gold	0.230 (5.84)	—	609-3485-2-ND	194.33/300		95278-101A14LF
	16	30µ” Gold	0.230 (5.84)	—	609-3486-1-ND	1.37	19.29	95278-101A16LF
	16	30µ” Gold	0.230 (5.84)	—	609-3486-2-ND	179.46/300		95278-101A16LF
	06	30µ” Gold	0.230 (5.84)	—	609-3487-1-ND	1.19	16.80	95278-101A06LF
	06	30µ” Gold	0.230 (5.84)	—	609-3487-2-ND	182.27/350		95278-101A06LF
Single Row Housing With Polarization Plug								
6	2	—	0.273 (6.93)	0.200 (5.08)	609-3605-ND	1.11	15.27	67954-001LF
	3	—	0.373 (9.47)	0.300 (7.62)	609-3606-ND	1.28	18.05	67954-002LF
	4	—	0.473 (12.01)	0.400 (10.16)	609-3607-ND	1.44	19.88	67954-003LF
Vertical Single Row Receptacle, Through Hole								
7	6	30µ” Gold	0.597 (15.16)	0.500 (12.70)	609-3558-ND	1.15	15.80	75915-306LF
	8	30µ” Gold	0.797 (20.24)	0.700 (17.78)	609-3559-ND	1.45	19.51	75915-308LF
	10	30µ” Gold	0.997 (25.32)	0.900 (22.86)	609-3550-ND	1.67	22.53	75915-310LF
	12	30µ” Gold	1.197 (30.4)	1.100 (27.94)	609-3553-ND	1.89	27.03	75915-312LF
8	6	30µ” Gold	0.617 (15.67)	—	609-3588-ND	2.67	40.03	68685-306LF
	8	30µ” Gold	0.817 (20.75)	—	609-3589-ND	2.98	45.64	68685-308LF
	10	30µ” Gold	1.017 (25.83)	—	609-3584-ND	3.73	57.55	68685-310LF
	16	30µ” Gold	1.617 (41.07)	—	609-3586-ND	4.53	70.25	68685-316LF
	20	30µ” Gold	2.017 (51.23)	—	609-3587-ND	4.85	75.79	68685-320LF
Vertical Dual Row Receptacle, Through Hole								
9	16	30µ” Gold	0.797 (20.24)	0.700 (17.78)	609-3554-ND	2.45	36.24	87606-308LF
	20	30µ” Gold	0.997 (25.32)	0.900 (22.86)	609-3555-ND	2.88	42.79	87606-310LF
	40	30µ” Gold	1.997 (50.72)	1.900 (48.26)	609-3556-ND	7.35	127.24	87606-320LF
10	6	30µ” Gold	0.317 (8.05)	—	609-3582-ND	2.03	29.81	68683-303LF
	8	30µ” Gold	0.417 (10.59)	—	609-3583-ND	2.30	33.95	68683-304LF
	10	30µ” Gold	0.517 (13.13)	—	609-3573-ND	1.76	23.85	68683-305LF
	14	30µ” Gold	0.717 (18.21)	—	609-3574-ND	2.28	32.63	68683-307LF
	16	30µ” Gold	0.817 (20.75)	—	609-3575-ND	2.51	37.62	68683-308LF
	26	30µ” Gold	1.317 (33.45)	—	609-3577-ND	3.80	58.51	68683-313LF
	36	30µ” Gold	1.817 (46.15)	—	609-3578-ND	5.02	78.40	68683-318LF
	40	30µ” Gold	2.017 (51.23)	—	609-3579-ND	5.49	87.36	68683-320LF
	50	30µ” Gold	2.517 (63.93)	—	609-3580-ND	6.30	104.79	68683-325LF
	64	30µ” Gold	3.217 (81.71)	—	609-3581-ND	9.38	161.28	68683-332LF

Fig.	Housing Color	Plating	Dimensions - Inches (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Shunts									
11	White	30µ” Gold	0.236 (6.0)	0.199 (5.05)	0.098 (2.49)	609-2997-ND	.23	2.47	63429-202LF
	Blue	Tin	0.385 (9.78)	0.205 (5.21)	0.100 (2.54)	609-2215-ND	.35	4.14	65474-002LF
	Blue	Gold Flash	0.385 (9.78)	0.205 (5.21)	0.100 (2.54)	609-3608-ND	.83	10.43	65474-004LF
	Blue	30µ” Gold	0.385 (9.78)	0.205 (5.21)	0.100 (2.54)	609-2216-ND	.56	6.69	65474-010LF
	Blue	40µ” Gold	0.385 (9.78)	0.205 (5.21)	0.100 (2.54)	609-2835-ND	.66	8.05	65474-001LF
	Black	15µ” Gold	0.200 (5.08)	0.198 (5.03)	0.098 (2.49)	609-3121-ND	.22	2.46	68786-102LF
	Black	30µ” Gold	0.200 (5.08)	0.198 (5.03)	0.098 (2.49)	609-2217-ND	.29	3.20	68786-202LF
	Black	Tin	0.200 (5.08)	0.198 (5.03)	0.098 (2.49)	609-2218-ND	.30	3.32	68786-302LF
	Black	15µ” Gold	0.360 (9.15)	0.198 (5.03)	0.098 (2.49)	609-2462-ND	.31	3.41	71363-102LF
	Black	30µ” Gold	0.360 (9.15)	0.198 (5.03)	0.098 (2.49)	609-2463-ND	.34	3.74	71363-202LF

.100” (2.54mm) PCB Mounted Receptacles

Fig. 1

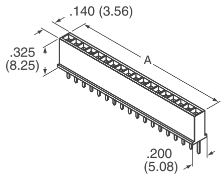

Fig. 2

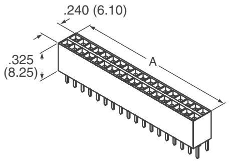

Fig. 3

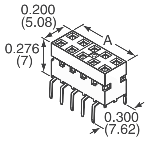

Fig. 4

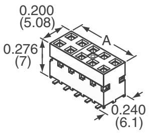

Fig.	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Vertical Single Row							
1	3	0.30 (7.62)	609-2233-ND	1.93	.99	.84	66951-003LF
	4	0.40 (10.16)	609-2234-ND	2.62	1.35	1.14	66951-004LF
	5	0.50 (12.70)	609-2235-ND	2.43	1.40	1.21	66951-005LF
	6	0.60 (15.24)	609-2236-ND	2.66	1.49	1.28	66951-006LF
	7	0.70 (17.78)	609-2237-ND	2.49	1.38	1.16	66951-007LF
	8	0.80 (20.32)	609-2238-ND	2.73	1.52	1.33	66951-008LF
	9	0.90 (22.86)	609-2239-ND	5.43	3.21	2.85	66951-009LF
	10	1.00 (25.40)	609-2240-ND	2.29	1.35	1.17	66951-010LF
	12	1.20 (30.48)	609-2242-ND	4.38	2.59	2.30	66951-012LF
	13	1.30 (33.02)	609-2243-ND	3.41	2.05	1.79	66951-013LF
	14	1.40 (35.56)	609-2244-ND	3.73	2.24	1.95	66951-014LF
	15	1.50 (38.10)	609-2245-ND	8.83	5.25	4.69	66951-015LF
	16	1.60 (40.64)	609-2246-ND	4.47	2.75	2.46	66951-016LF
	17	1.70 (43.18)	609-2247-ND	5.78	3.55	3.08	66951-017LF
	18	1.80 (45.72)	609-2248-ND	4.26	2.63	2.32	66951-018LF
	20	2.00 (50.80)	609-2250-ND	5.44	3.36	2.96	66951-020LF
	26	2.60 (66.04)	609-2256-ND	3.87	2.41	2.18	66951-026LF
	32	3.20 (81.28)	609-2262-ND	7.07	4.90	4.33	66951-032LF
	35	3.50 (88.90)	609-2265-ND	9.54	6.35	5.69	66951-035LF
	36	3.60 (91.44)	609-2266-ND	8.85	5.64	5.16	66951-036LF
Vertical Dual Row							
2	6	0.30 (7.62)	609-2267-ND	1.87	1.05	.92	66953-003LF
	8	0.40 (10.16)	609-2268-ND	5.20	2.88	2.47	66953-004LF
	10	0.50 (12.70)	609-2269-ND	3.13	1.74	1.52	66953-005LF
	12	0.60 (15.24)	609-2270-ND	4.62	2.72	2.36	66953-006LF
	14	0.70 (17.78)	609-2271-ND	3.98	2.35	2.09	66953-007LF
	16	0.80 (20.32)	609-2272-ND	2.81	1.69	1.48	66953-008LF
	18	0.90 (22.86)	609-2273-ND	3.12	1.86	1.66	66953-009LF
	20	1.00 (25.40)	609-2274-ND	4.01	2.46	2.14	66953-010LF
	24	1.20 (30.48)	609-2276-ND	5.46	3.37	2.97	66953-012LF
	26	1.30 (33.02)	609-2277-ND	5.56	3.45	3.13	66953-013LF
	28	1.40 (35.56)	609-2278-ND	4.93	3.06	2.77	66953-014LF
	30	1.50 (38.10)	609-2279-ND	5.20	3.23	2.93	66953-015LF
	32	1.60 (40.64)	609-2280-ND	5.24	3.28	3.00	66953-016LF
	34	1.70 (43.18)	609-2281-ND	6.82	4.24	3.84	66953-017LF
	40	2.00 (50.80)	609-2284-ND	7.53	4.80	4.39	66953-020LF
	50	2.50 (63.50)	609-2289-ND	6.95	4.63	4.15	66953-025LF
	60	3.00 (76.20)	609-2294-ND	6.29	4.19	3.76	66953-030LF
	64	3.20 (81.28)	609-2296-ND	13.34	9.07	8.17	66953-032LF
Vertical Dual Row - Dual Entry							
3	10	0.497 (12.62)	609-2998-ND	2.01	1.18	1.03	71991-305LF
	12	0.597 (15.16)	609-3035-ND	2.30	1.36	1.21	71991-306LF
	16	0.797 (20.24)	609-3037-ND	2.89	1.72	1.54	71991-308LF
	20	0.997 (25.32)	609-3000-ND	3.38	2.09	1.84	71991-310LF
	22	1.097 (27.86)	609-3001-ND	3.61	2.23	1.97	71991-311LF
	24	1.197 (30.4)	609-3002-ND	3.81	2.37	2.14	71991-312LF
	26	1.297 (32.94)	609-3003-ND	4.12	2.56	2.32	71991-313LF
	30	1.497 (38.02)	609-3005-ND	4.59	2.96	2.63	71991-315LF
	32	1.597 (40.56)	609-3006-ND	4.90	3.07	2.81	71991-316LF
	40	1.997 (50.72)	609-3010-ND	5.69	3.79	3.40	71991-320LF
Vertical Dual Row - Dual Entry SMD							
4	4	0.197 (5.0)	609-3038-ND	1.12	.59	.51	89898-302LF
	6	0.297 (7.54)	609-3039-ND	1.43	.78	.67	89898-303LF
	8	0.397 (10.08)	609-3040-ND	2.01	1.18	1.03	89898-304LF
	10	0.497 (12.62)	609-3041-ND	2.45	1.45	1.29	89898-305LF
	12	0.597 (15.16)	609-3042-ND	2.08	1.23	1.07	89898-306LF
	16	0.797 (20.24)	609-3043-ND	2.65	1.60	1.39	89898-308LF
	20	0.997 (25.32)	609-3044-ND	3.84	2.39	2.16	89898-310LF
	28	1.397 (35.48)	609-3048-ND	4.15	2.58	2.34	89898-314LF
	30	1.497 (38.02)	609-3049-ND	5.24	3.34	3.05	89898-315LF
	32	1.597 (40.56)	609-3050-ND	4.57	2.95	2.62	89898-316LF
	34	1.697 (43.1)	609-3051-ND	5.60	3.73	3.34	89898-317LF
	40	1.997 (50.72)	609-3054-ND	5.52	3.58	3.27	89898-320LF

Crimp-to-Wire Mini-PV™ Receptacle Housings and Headers

Fig. 1

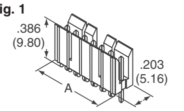

Fig. 2

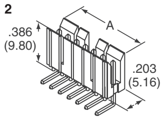

Fig. 3

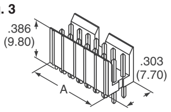

Fig. 4

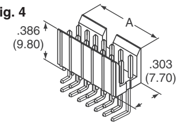

Fig. 5

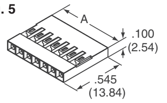

Shown without Polarizing Key

Fig. 6

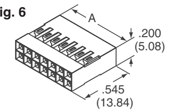

Shown without Polarizing Key

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			FCI Part No.
				1	25	100	
Vertical Single Row Header							
1	3	0.30 (7.62)	609-2410-ND	.82	9.81	32.70	69167-103HLF
	4	0.40 (10.16)	609-2411-ND	1.00	12.54	42.53	69167-104HLF
	5	0.50 (12.70)	609-2412-ND	1.16	15.32	51.76	69167-105HLF
	6	0.60 (15.24)	609-2413-ND	1.20	16.55	55.67	69167-106HLF
	7	0.70 (17.78)	609-2414-ND	1.42	19.07	65.39	69167-107HLF
	8	0.80 (20.32)	609-2415-ND	1.52	20.41	69.98	69167-108HLF
	9	0.90 (22.86)	609-2416-ND	1.57	21.69	74.36	69167-109HLF
	10	1.00 (25.40)	609-2417-ND	1.80	24.30	85.05	69167-110HLF
	11	1.10 (27.94)	609-2418-ND	2.00	28.52	99.80	69167-111HLF
	12	1.20 (30.48)	609-2419-ND	1.65	22.90	80.13	69167-112HLF
	14	1.40 (35.56)	609-2421-ND	1.78	25.44	88.01	69167-114HLF
	15	1.50 (38.10)	609-2422-ND	2.17	30.19	104.44	69167-115HLF
Right Angle Single Row Header							
2	3	0.30 (7.62)	609-2449-ND	.82	9.82	32.72	78208-103HLF
	4	0.40 (10.16)	609-2450-ND	1.03	13.16	44.64	78208-104HLF
	5	0.50 (12.70)	609-2451-ND	1.20	15.74	54.36	78208-105HLF
	6	0.60 (15.24)	609-2452-ND	1.31	17.99	60.51	78208-106HLF
	7	0.70 (17.78)	609-2453-ND	1.49	20.04	68.71	78208-107HLF
	8	0.80 (20.32)	609-2454-ND	1.66	22.89	78.48	78208-108HLF
	9	0.90 (22.86)	609-2455-ND	3.32	44.89	157.12	78208-109HLF
	10	1.00 (25.40)	609-2456-ND	1.96	27.25	95.38	78208-110HLF
	12	1.20 (30.48)	609-2458-ND	1.69	22.90	79.22	78208-112HLF
	15	1.50 (38.10)	609-2461-ND	2.26	32.39	114.96	78208-115HLF
Vertical Dual Row Header							
3	6	0.30 (7.62)	609-2423-ND	1.26	17.38	58.46	69168-106HLF
	8	0.40 (10.16)	609-2424-ND	1.66	22.89	78.48	69168-108HLF
	10	0.50 (12.70)	609-2425-ND	1.93	26.13	91.46	69168-110HLF
	12	0.60 (15.24)	609-2426-ND	1.72	24.04	82.42	69168-112HLF
	14	0.70 (17.78)	609-2427-ND	1.92	26.71	93.47	69168-114HLF
	16	0.80 (20.32)	609-2428-ND	2.14	30.52	105.60	69168-116HLF
	18	0.90 (22.86)	609-2429-ND	2.33	34.34	118.80	69168-118HLF
	20	1.00 (25.40)	609-2430-ND	2.52	37.20	132.00	69168-120HLF
	22	1.10 (27.94)	609-2431-ND	2.60	38.97	135.90	69168-122HLF
	24	1.20 (30.48)	609-2432-ND	2.98	44.63	155.64	69168-124HLF
	26	1.30 (33.02)	609-2433-ND	3.02	44.88	160.62	69168-126HLF
	28	1.40 (35.56)	609-2434-ND	3.31	50.74	176.27	69168-128HLF
	30	1.50 (38.10)	609-2435-ND	3.55	54.36	188.84	69168-130HLF
Right Angle Dual Row Header							
4	6	0.30 (7.62)	609-2436-ND	1.37	18.89	63.55	78207-106HLF
	8	0.40 (10.16)	609-2437-ND	1.64	22.89	78.48	78207-108HLF
	10	0.50 (12.70)	609-2438-ND	1.25	17.22	57.91	78207-110HLF
	12	0.60 (15.24)	609-2439-ND	1.78	24.04	84.14	78207-112HLF
	14	0.70 (17.78)	609-2440-ND	1.92	26.71	93.47	78207-114HLF
	16	0.80 (20.32)	609-2441-ND	2.24	32.04	110.86	78207-116HLF
	20	1.00 (25.40)	609-2443-ND	2.52	37.20	132.00	78207-120HLF
	24	1.20 (30.48)	609-2445-ND	2.93	43.50	155.67	78207-124HLF
	26	1.30 (33.02)	609-2446-ND	6.11	93.63	335.10	78207-126HLF
	30	1.50 (38.10)	609-2448-ND	3.55	52.94	186.57	78207-130HLF
Single Row Housing Without Center Polarizing Key							
5	1	0.10 (2.54)	609-2342-ND	.76	9.46	30.28	65039-036LF
	2	0.20 (5.08)	609-2341-ND	.88	10.60	35.34	65039-035LF
	3	0.30 (7.62)	609-2340-ND	.96	12.11	39.37	65039-034LF
	4	0.40 (10.16)	609-2339-ND	1.01	12.33	41.81	65039-033LF
	5	0.50 (12.70)	609-2338-ND	1.14	14.20	47.96	65039-032LF
	6	0.60 (15.24)	609-2337-ND	1.23	16.31	55.08	65039-031LF
	7	0.70 (17.78)	609-2336-ND	1.23	16.33	55.16	65039-030LF
	8	0.80 (20.32)	609-2335-ND	1.26	17.35	58.37	65039-029LF
	9	0.90 (22.86)	609-2334-ND	1.36	18.74	63.03	65039-028LF
	10	1.00 (25.40)	609-2333-ND	1.43	20.12	65.86	65039-027LF
	11	1.10 (27.94)	609-2332-ND	1.48	20.82	68.13	65039-026LF
	12	1.20 (30.48)	609-2331-ND	1.54	21.49	73.69	65039-025LF
	13	1.30 (33.02)	609-2330-ND	1.59	21.46	75.11	65039-024LF
	14	1.40 (35.56)	609-2329-ND	1.73	23.38	81.81	65039-023LF
	15	1.50 (38.10)	609-2328-ND	2.00	27.76	97.16	65039-022LF
	16	1.60 (40.64)	609-2327-ND	2.14	29.66	103.79	65039-021LF
	17	1.70 (43.18)	609-2326-ND	2.18	30.28	105.98	65039-020LF
	18	1.80 (45.72)	609-2325-ND	2.16	30.93	107.00	65039-019LF
	20	2.00 (50.80)	609-2323-ND	2.34	34.40	119.02	65039-017LF
	21	2.10 (53.34)	609-2322-ND	2.44	36.12	128.18	65039-016LF
	22	2.20 (55.88)	609-2321-ND	2.21	31.72	112.57	65039-015LF
	25	2.50 (63.50)	609-2318-ND	2.77	41.57	144.96	65039-012LF
	32	3.20 (81.28)	609-2311-ND	3.16	48.45	168.32	65039-005LF
	36	3.60 (91.44)	609-2307-ND	3.18	48.71	169.21	65039-001LF
Single Row Housing With Center Polarizing Key							
5	3	0.30 (7.62)	609-2395-ND	1.03	13.17	44.50	78211-003LF
	4	0.40 (10.16)	609-2396-ND	1.20	16.46	55.37	78211-004LF
	5	0.50 (12.70)	609-2397-ND	1.42	19.12	65.54	78211-005LF
	6	0.60 (15.24)	609-2398-ND	1.59	21.45	75.08	78211-006LF
	7	0.70 (17.78)	609-2399-ND	1.68	22.77	79.70	78211-007LF
	8	0.80 (20.32)	609-2400-ND	1.51	20.92	71.71	78211-008LF
	9	0.90 (22.86)	609-2401-ND	2.04	30.03	103.90	78211-009LF
	10	1.00 (25.40)	609-2402-ND	1.48	20.49	70.25	78211-010LF
	12	1.20 (30.48)	609-2404-ND	1.96	27.96	96.74	78211-012LF
	14	1.40 (35.56)	609-2406-ND	2.90	44.37	158.81	78211-014LF
Dual Row Housing Without Center Polarizing Key							
6	4	0.20 (5.08)	609-2377-ND	1.27	16.65	57.53	65043-035LF
	6	0.30 (7.62)	609-2376-ND	1.23	16.31	55.08	65043-034LF
	8	0.40 (10.16)	609-2375-ND	1.41	19.41	65.29	65043-033LF
	10	0.50 (12.70)	609-2374-ND	1.82	24.61	86.14	65043-032LF
	12	0.60 (15.24)	609-2373-ND	.52	7.69	24.84	65043-031LF
	14	0.70 (17.78)	609-2372-ND	2.36	34.70	120.06	65043-030LF
	16	0.80 (20.32)	609-2371-ND	2.18	30.29	106.00	65043-029LF
	18	0.90 (22.86)	609-2370-ND	2.62	37.53	133.18	65043-028LF
	20	1.00 (25.40)	609-2369-ND	2.78	41.74	145.57	65043-027LF
	22	1.10 (27.94)	609-2368-ND	3.07	46.12	160.84	65043-026LF
6	24	1.20 (30.48)	609-2367-ND	3.15	46.73	167.23	65043-025LF
	26	1.30 (33.02)	609-2366-ND	3.21	49.16	175.93	65043-024LF
	28	1.40 (35.56)	609-2365-ND	3.36	51.55	184.50	65043-023LF
	30	1.50 (38.10)	609-2364-ND	3.64	55.75	193.64	65043-022LF
	32	1.60 (40.64)	609-2363-ND	3.16	48.45	168.32	65043-021LF
	34	1.70 (43.18)	609-2362-ND	3.18	48.75	169.34	65043-020LF
	36	1.80 (45.72)	609-2361-ND	3.26	50.01	173.73	65043-019LF
	40	2.00 (50.80)	609-2359-ND	3.59	55.36	195.09	65043-017LF
	44	2.20 (55.88)	609-2357-ND	3.78	58.35	205.64	65043-015LF
	46	2.30 (58.24)	609-2356-ND	3.65	56.24	198.19	65043-014LF
	48	2.40 (60.96)	609-2355-ND	3.89	60.30	218.44	65043-013LF
	50	2.50 (63.50)	609-2354-ND	3.82	58.90	207.58	65043-012LF
	54	2.70 (68.58)	609-2352-ND	4.37	67.85	245.76	65043-010LF
	58	2.90 (73.66)	609-2350-ND	4.33	67.19	243.36	65043-008LF
	64	3.20 (81.28)	609-2347-ND	4.77	76.61	272.38	65043-005LF
	72	3.60 (91.44)	609-2343-ND	4.64	72.01	260.85	65043-001LF
Dual Row Housing With Center Polarizing Key							
6	4	0.20 (5.08)	609-2379-ND	1.75	24.51	84.04	69176-004LF
	6	0.30 (7.62)	609-2380-ND	1.87	25.24	88.32	69176-006LF
	8	0.40 (10.16)	609-2381-ND	2.14	29.66	103.79	69176-008LF
	10	0.50 (12.70)	609-2382-ND	2.30	32.81	113.52	69176-010LF
	12	0.60 (15.24)	609-2383-ND	2.53	36.29	128.80	69176-012LF
	14	0.70 (17.78)	609-2384-ND	2.75	40.60	144.09	69176-014LF
	16	0.80 (20.32)	609-2385-ND	2.87	43.07	150.18	69176-016LF
	18	0.90 (22.86)	609-2386-ND	3.03	45.52	158.75	69176-018LF
	20	1.00 (25.40)	609-2387-ND	3.21	49.15	175.92	69176-020LF
	22	1.10 (27.94)	609-2388-ND	3.44	52.74	183.22	69176-022LF
	24	1.20 (30.48)	609-2389-ND	3.60	55.14	191.55	69176-024LF
	26	1.30 (33.02)	609-2390-ND	3.76	57.55	199.90	69176-026LF
	28	1.40 (35.56)	609-2391-ND	3.94	60.70	213.92	69176-028LF
	30	1.50 (38.10)	609-2392-ND	4.09	63.03	222.15	69176-030LF
	6	0.300 (7.62)	609-3547-ND	1.83	25.36	88.76	65846-015LF
	8	0.400 (10.16)	609-3548-ND	1.87	26.02	91.07	65846-016LF
	10	0.500 (12.70)	609-3532-ND	2.08	30.56	105.74	65846-010LF
	12	0.600 (15.24)	609-3533-ND	2.26	32.34	114.75	65846-017LF
	14	0.700 (17.78)	609-3534-ND	2.45	36.82	128.40	65846-007LF
	16	0.800 (20.32)	609-3535-ND	2.71	40.59	141.56	65846-011LF
	18	0.900 (22.86)	609-3536-ND	2.66	39.90	139.13	65846-008LF
	20	1.000 (25.40)	609-3537-ND	2.87	42.64	152.61	65846-006LF
	24	1.200 (30.48)	609-3538-ND	3.31	50.68	176.04	65846-001LF
	26	1.300 (33.02)	609-3539-ND	3.66	56.48	199.06	65846-019LF
	30	1.500 (38.10)	609-3540-ND	3.63	55.95	197.20	65846-002LF
	34	1.700 (43.18)	609-3541-ND	4.04	62.64	226.88	65846-022LF
	38	1.900 (48.26)	609-3542-ND	4.34	67.33	243.88	65846-003LF
	40	2.000 (50.80)	609-3543-ND	4.66	74.94	266.45	65846-024LF
	44	2.200 (55.88)	609-3544-ND	4.23	65.57	237.51	65846-004LF
	54	2.700 (68.58)	609-3545-ND	5.67	91.81	335.78	65846-005LF
	50	2.500 (63.50)	609-3546-ND	5.29	84.19	307.89	65846-012LF
Polarizing Plug for Receptacle Housing							
Polarizing Plug			609-2378-ND	.94	10.78	32.97	65307-001LF
Crimp Contacts for Receptacle Housing							
Conn. Socket 18-20 AWG Gold Crimp			609-3609-ND	.49	5.69	18.38	48233-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-2305-ND	.48	5.56	17.98	48235-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-2851-ND	1.07	12.64	41.21	48234-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-2852-ND	.53	6.32	20.59	48236-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3610-ND	.48	5.78	18.48	48251-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3611-ND	.47	5.53	18.02	48254-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3612-ND	.47	5.53	18.02	48257-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3615-1-ND†	.44	5.06	15.24	48046-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3615-2-ND‡	1142.60/10,000			48046-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3616-1-ND†	.34	4.26	12.67	48049-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3616-2-ND‡	881.60/10,000			48049-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3617-1-ND†	.44	5.06	15.24	48051-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3617-2-ND‡	1023.70/10,000			48051-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3618-1-ND†	.30	3.75	11.25	48242-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3618-2-ND‡	775.75/10,000			48242-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3619-1-ND†	.31	3.83	11.48	48245-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3619-2-ND‡	791.70/10,000			48245-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3620-1-ND†	.31	3.36	9.99	48248-000LF
Conn. Socket 22-26 AWG Gold Crimp			609-3620-2-ND‡	718.50/10,000			48248-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-2306-ND	.47	5.56	18.11	48238-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-2853-ND	.53	6.32	20.59	48237-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-2854-ND	.54	6.44	20.59	48239-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-3621-ND	.46	5.52	17.67	48252-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-3622-1-ND†	.37	4.36	13.71	48045-000LF
Conn. Socket 28-32 AWG Gold Crimp			609-3622-2-ND‡	967.15/10,000			48045-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-2301-ND	.40	4.67	14.67	47747-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-2848-ND	.54	6.35	20.52	47715-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-2849-ND	.41	4.77	14.98	47750-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-3613-1-ND†	.20	2.08	6.45	47217-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-3613-2-ND‡	419.22/10,000			47217-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-3614-1-ND†	.20	2.03	6.30	47649-000LF
Conn. Socket 22-26 AWG Tin Crimp			609-3614-2-ND‡	408.51/10,000			47649-000LF
Conn. Socket 28-32 AWG Tin Crimp			609-2302-ND	.54	6.41	19.89	47748-000LF
Conn. Socket 28-32 AWG Tin Crimp			609-2850-ND	.93	11.51	37.17	47714-000LF
Conn. Socket 28-32 AWG Tin Crimp			609-2847-ND	.49	5.80	18.90	47751-000LF
Conn. Pin 22-26 AWG Gold Crimp			609-3658-1-ND† ***NEW!***	.80	9.68	32.84	47792-003LF
Conn. Pin 22-26 AWG Gold Crimp			609-3658-2-ND‡ ***NEW!***	2018.24/8,000			47792-003LF
Conn. Pin 22-26 AWG Tin Crimp			609-3659-1-ND† ***NEW!***	.34	3.75	11.50	75653-002LF
Conn. Pin 22-26 AWG Tin Crimp			609-3659-2-ND‡ ***NEW!***	642.00/8,000			75653-002LF
Crimp Tools							
Crimp Tool for Socket Crimp contacts 22-32 AWG			609-2408-ND	1325.21	—	—	HT-0095
Crimp Tool for Pin Crimp contacts 22-32 AWG			609-2409-ND	1089.73	—	—	HT-0102

† Cut Tape ‡ Tape & Reel

FCI DUBOX™ Versatile 0.100” (2.54 mm) Modular System

RoHS COMPLIANT

Features: • **Body Material:** Glass filled Thermoplastic or Glass filled Polyester • **Color:** Right Angle Header: Blue; Vertical Header: Black; Housing: Blue • **Flame Retardant:** Per UL-94 V0 • **Contact Material:** Phosphor Bronze

Fig. 1

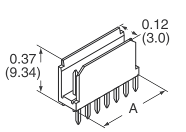

Fig. 2

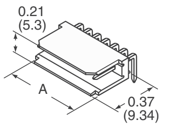

Fig. 3

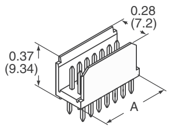

Fig. 4

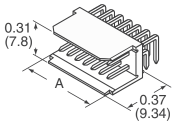

Fig. 5

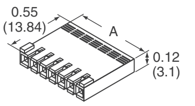

Fig. 6

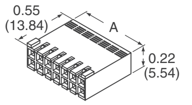

Fig.	No. of Pos.	Dim. A Inch (mm) (Typical)	Digi-Key Part No.	Pricing			FCI Part No.
				1	25	100	
Vertical Single Row Header — Gold							
1	2	0.161 (4.08)	609-1304-ND	.68	8.56	27.38	76384-302LF
	3	0.261 (6.62)	609-1305-ND	.83	10.34	33.60	76384-303LF
	4	0.361 (9.16)	609-1306-ND	.93	11.65	39.51	76384-304LF
	5	0.461 (11.70)	609-1307-ND	.99	12.36	41.76	76384-305LF
	6	0.561 (14.24)	609-1308-ND	1.13	15.60	52.48	76384-306LF
	7	0.661 (16.78)	609-1309-ND	1.26	17.27	58.09	76384-307LF
	8	0.761 (19.32)	609-1310-ND	1.44	19.36	66.38	76384-308LF
	9	0.861 (21.86)	609-1311-ND	1.52	21.02	72.07	76384-309LF
	10	0.961 (24.40)	609-1312-ND	1.60	22.34	76.59	76384-310LF
	11	1.061 (26.94)	609-1313-ND	1.79	24.23	84.79	76384-311LF
	12	1.161 (29.48)	609-1314-ND	1.86	25.82	90.37	76384-312LF
	13	1.261 (32.02)	609-1315-ND	1.84	25.57	89.50	76384-313LF
	14	1.361 (34.56)	609-1316-ND	2.07	29.50	102.07	76384-314LF
	16	1.561 (39.64)	609-3064-ND	2.05	29.25	101.21	76384-316LF
Vertical Single Row Header — Tin							
1	2	0.161 (4.08)	609-1317-ND	.64	7.90	25.28	76384-402LF
	3	0.261 (6.62)	609-1318-ND	.71	8.51	28.38	76384-403LF
	4	0.361 (9.16)	609-1319-ND	.86	10.75	34.92	76384-404LF
	5	0.461 (11.70)	609-1320-ND	1.04	13.02	43.99	76384-405LF
	6	0.561 (14.24)	609-1321-ND	1.13	14.95	50.50	76384-406LF
	8	0.761 (19.32)	609-1323-ND	1.29	17.72	59.61	76384-408LF
	9	0.861 (21.86)	609-1324-ND	1.41	19.93	65.23	76384-409LF
	10	0.961 (24.40)	609-1325-ND	1.48	19.91	68.26	76384-410LF
	12	1.161 (29.48)	609-1327-ND	1.72	23.24	81.32	76384-412LF
	15	1.461 (37.10)	609-3065-ND	2.03	29.03	100.44	76834-415LF
Right Angle Single Row Header — Gold							
2	2	0.193 (4.90)	609-1278-ND	.76	9.11	30.38	76382-302LF
	3	0.293 (7.44)	609-1279-ND	.93	11.65	39.51	76382-303LF
	4	0.393 (9.98)	609-1280-ND	1.05	13.68	46.21	76382-304LF
	5	0.493 (12.52)	609-1281-ND	1.22	16.81	56.54	76382-305LF
	6	0.593 (15.06)	609-1282-ND	1.40	19.70	64.48	76382-306LF
	7	0.693 (17.60)	609-1283-ND	1.49	20.00	68.58	76382-307LF
	8	0.793 (20.14)	609-1284-ND	1.56	21.61	74.09	76382-308LF
	9	0.893 (22.68)	609-1285-ND	1.83	24.76	86.66	76382-309LF
	10	0.993 (25.22)	609-1286-ND	1.93	26.86	94.01	76382-310LF
	12	1.193 (30.30)	609-1288-ND	2.08	29.68	102.69	76382-312LF
	13	1.293 (32.84)	609-1289-ND	2.78	41.75	145.61	76382-313LF
Right Angle Single Row Header — Tin							
2	2	0.193 (4.90)	609-1291-ND	1.09	13.57	43.42	76382-402LF
	3	0.293 (7.44)	609-1292-ND	.83	10.34	33.60	76382-403LF
	4	0.393 (9.98)	609-1293-ND	.96	12.29	41.69	76382-404LF
	5	0.493 (12.52)	609-1294-ND	1.09	14.41	48.68	76382-405LF
	6	0.593 (15.06)	609-1295-ND	1.18	16.16	54.37	76382-406LF
	7	0.693 (17.60)	609-1296-ND	1.34	18.87	61.74	76382-407LF
	8	0.793 (20.14)	609-1297-ND	1.44	19.45	66.67	76382-408LF
	9	0.893 (22.68)	609-1298-ND	1.54	21.27	72.94	76382-409LF
Vertical Dual Row Header — Gold							
3	4	0.161 (4.08)	609-1330-ND	1.08	14.24	48.11	76385-302LF
	6	0.261 (6.62)	609-1331-ND	1.36	19.12	62.57	76385-303LF
	8	0.361 (9.16)	609-1332-ND	1.56	21.80	74.75	76385-304LF
	10	0.461 (11.70)	609-1333-ND	1.80	24.31	85.09	76385-305LF
	12	0.561 (14.24)	609-1334-ND	1.99	28.37	98.14	76385-306LF
	14	0.661 (16.78)	609-1335-ND	2.01	27.89	97.60	76385-307LF
	16	0.761 (19.32)	609-1336-ND	2.00	28.53	98.71	76385-308LF
	18	0.861 (21.86)	609-1337-ND	2.27	33.38	115.48	76385-309LF
	20	0.961 (24.40)	609-1338-ND	2.80	41.98	146.39	76385-310LF
	22	1.061 (26.94)	609-1339-ND	2.65	39.77	138.69	76385-311LF
	26	1.261 (32.02)	609-1341-ND	3.09	45.79	163.90	76385-313LF
	28	1.361 (34.56)	609-1342-ND	3.09	47.42	164.72	76385-314LF
	30	1.461 (37.10)	609-1343-ND	3.32	50.81	176.50	76385-315LF
	32	1.561 (39.64)	609-1344-ND	4.08	62.86	221.53	76385-316LF
	36	1.761 (44.72)	609-1346-ND	4.35	67.57	244.76	76385-318LF
Vertical Dual Row Header — Tin							
3	4	0.161 (4.08)	609-1347-ND	.86	10.88	35.35	76385-402LF
	6	0.261 (6.62)	609-1348-ND	1.22	16.81	56.54	76385-403LF
	8	0.361 (9.16)	609-1349-ND	1.47	19.78	67.81	76385-404LF
	10	0.461 (11.70)	609-1350-ND	1.63	22.80	78.16	76385-405LF
	12	0.561 (14.24)	609-1351-ND	1.79	24.91	87.19	76385-406LF
	14	0.661 (16.78)	609-1352-ND	2.03	29.07	100.58	76385-407LF
	16	0.761 (19.32)	609-1353-ND	1.90	26.34	92.19	76385-408LF
	18	0.861 (21.86)	609-1354-ND	2.31	33.12	117.54	76385-409LF
	20	0.961 (24.40)	609-1355-ND	2.49	36.80	130.60	76385-410LF
3	22	1.061 (26.94)	609-1356-ND	2.99	44.87	156.49	76385-411LF
	24	1.161 (29.48)	609-1357-ND	2.90	43.04	154.04	76385-412LF
	26	1.261 (32.02)	609-1358-ND	3.04	46.62	166.86	76385-413LF
Right Angle Dual Row Header — Gold							
4	4	0.193 (4.90)	609-1364-ND	1.34	18.94	61.99	76383-302LF
	6	0.283 (7.44)	609-1365-ND	1.35	19.11	62.53	76383-303LF
	8	0.393 (9.98)	609-1366-ND	1.91	27.36	94.65	76383-304LF
	10	0.493 (12.52)	609-1367-ND	2.20	32.42	112.17	76383-305LF
	12	0.593 (15.06)	609-1368-ND	2.47	36.54	129.68	76383-306LF
	14	0.693 (17.60)	609-1369-ND	2.84	42.63	148.65	76383-307LF
	18	0.893 (22.68)	609-1371-ND	2.82	42.33	147.61	76383-309LF
	20	0.993 (25.22)	609-1372-ND	3.40	52.48	184.94	76383-310LF
	26	1.293 (32.84)	609-1375-ND	3.76	58.00	204.42	76383-313LF
	28	1.393 (35.38)	609-1376-ND	4.61	71.59	259.30	76383-314LF
	30	1.493 (37.92)	609-1377-ND	4.20	65.12	235.89	76383-315LF
	32	1.593 (40.46)	609-1378-ND	4.48	69.47	251.64	76383-316LF
	34	1.693 (43.00)	609-1379-ND	5.05	78.89	288.51	76383-317LF
Right Angle Dual Row Header — Tin							
4	4	0.193 (4.90)	609-1381-ND	.94	11.98	40.64	76383-402LF
	6	0.283 (7.44)	609-1382-ND	1.25	17.19	57.81	76383-403LF
	8	0.393 (9.98)	609-1383-ND	1.56	21.89	75.04	76383-404LF
	10	0.493 (12.52)	609-1384-ND	1.95	27.86	96.38	76383-405LF
	12	0.593 (15.06)	609-1385-ND	2.01	28.66	99.15	76383-406LF
	14	0.693 (17.60)	609-1386-ND	2.27	32.59	115.67	76383-407LF
	20	0.993 (25.22)	609-1389-ND	2.82	42.33	147.61	76383-410LF
	26	1.293 (32.84)	609-1392-ND	3.39	52.20	183.96	76383-413LF
	32	1.593 (40.46)	609-1395-ND	5.73	88.86	321.86	76383-416LF
	36	1.793 (45.54)	609-1397-ND	4.53	70.33	254.74	76383-418LF
Single Row Housing							
5	2	0.197 (5.00)	609-1262-ND	.33	3.65	11.20	65240-002LF
	3	0.297 (7.54)	609-1263-ND	.38	4.55	14.13	65240-003LF
	4	0.397 (10.08)	609-1264-ND	.49	5.84	18.68	65240-004LF
	5	0.497 (12.62)	609-1265-ND	.68	7.12	23.02	65240-005LF
	6	0.597 (15.16)	609-1266-ND	.62	7.57	24.22	65240-006LF
	7	0.697 (17.70)	609-1267-ND	.71	8.83	28.26	65240-007LF
	8	0.797 (20.24)	609-1268-ND	.76	9.14	30.48	65240-008LF
	9	0.897 (22.78)	609-1269-ND	.86	10.90	35.43	65240-009LF
	10	0.997 (25.32)	609-1270-ND	.90	10.95	37.15	65240-010LF
	11	1.097 (27.86)	609-1271-ND	1.00	12.78	43.33	65240-011LF
	12	1.197 (30.40)	609-1272-ND	1.07	13.62	46.02	65240-012LF
	13	1.297 (32.94)	609-1273-ND	1.05	13.93	47.04	65240-013LF
	14	1.397 (35.48)	609-1274-ND	1.12	14.66	50.65	65240-014LF
	16	1.597 (40.56)	609-3060-ND	1.22	16.75	56.35	65240-016LF
	20	1.997 (50.72)	609-3062-ND	1.46	19.66	67.39	65240-020LF
Dual Row Housing							
6	4	0.197 (5.00)	609-1245-ND	.52	6.03	19.47	65239-002LF
	6	0.297 (7.54)	609-1246-ND	.65	7.92	25.34	65239-003LF
	8	0.397 (10.08)	609-1247-ND	.77	9.20	30.68	65239-004LF
	10	0.497 (12.62)	609-1248-ND	.95	11.59	39.29	65239-005LF
	12	0.597 (15.16)	609-1249-ND	1.00	12.83	43.34	65239-006LF
	14	0.697 (17.70)	609-1250-ND	1.14	15.10	51.02	65239-007LF
	16	0.797 (20.24)	609-1251-ND	1.23	16.87	56.76	65239-008LF
	18	0.897 (22.78)	609-1252-ND	1.35	18.99	62.14	65239-009LF
	20	0.997 (25.32)	609-1253-ND	1.53	21.14	72.49	65239-010LF
	22	1.097 (27.86)	609-1254-ND	1.57	21.94	75.22	65239-011LF
	24	1.197 (30.40)	609-1255-ND	1.70	23.01	80.54	65239-012LF
	26	1.297 (32.94)	609-1256-ND	1.84	24.93	87.26	65239-013LF
	32	1.597 (40.56)	609-1259-ND	2.03	28.95	100.17	65239-016LF
	34	1.697 (43.10)	609-1260-ND	2.33	33.37	118.44	65239-017LF
	36	1.797 (45.64)	609-1261-ND	2.35	33.66	119.46	65239-018LF
Crimp Contacts for Receptacle Housings							
22-30 AWG, Gold			609-3055-1-ND‡	.25	2.73	8.45	76347-301LF
22-30 AWG, Gold			609-3055-2-ND§	819.98/15,000			76347-301LF
20-22 AWG, Gold			609-3058-1-ND‡	.28	3.05	9.43	76347-311LF
20-22 AWG, Gold			609-3058-2-ND§	915.68/15,000			76347-311LF
22-30 AWG, Gold			609-3056-1-ND‡◊	.28	3.07	9.82	76347-302LF
22-30 AWG, Gold			609-3056-2-ND§◊	952.65/15,000			76347-302LF
22-30 AWG, Gold			609-3057-1-ND‡◊	.43	5.11	16.35	76347-303LF
22-30 AWG, Gold			609-3057-2-ND§◊	71.55/500			76347-303LF
22-30 AWG, Gold			609-1275-ND†	.41	4.83	14.99	76357-301LF
22-30 AWG, Tin			609-1276-ND†	.34	3.71	11.36	76357-401LF
Tool							
Crimp Tool for Crimp Contact			609-1277-ND	1089.00	—	—	RCY21234

‡ Cut Tape § Tape and Reel † Loose piece ◊ Reeled for Left-to-Right Feed Application Machines

.100” KK® and .100” C-Grid® Breakaway Headers

Fig. 1 — KK® Breakaway Header – Right Angle

Features: • 250V • 4.0A • Contact Resistance: 20 mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

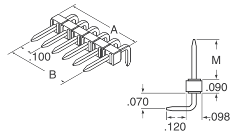

Mating End M (Inch)	Molex Part No.
.244	22-28-8xx0 22-28-8xx2
.324	22-28-8xx1 22-28-8xx3

Fig. 2 — KK® Breakaway Header – Vertical

Features: • 250V • 4.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

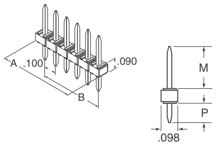

Mating End M (Inch)	PC Tail P (Inch)	Molex Part No.
.240	.125	22-28-4xx0 22-28-4xx3
.320	.120	22-28-4xx1 22-28-4xx4

Fig. 3 — .100” KK® Breakaway Header – Single Row, Unshrouded, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 1500VAC • Insulation Resistance: 1000 MΩ minimum • Housing: PA Polyamide (Nylon), High Temperature • Contact: Phosphor Bronze • Temperature Range: -55°C ~ 105°C • UL 94V-0

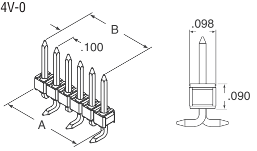

Fig. 4 — C-Grid® Breakaway Header – Dual Row, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 120°C, 0°C ~ 75°C (75102) • UL File No.: E29179 (G) • CSA File No.: LR19980A

***Note**: Compliant Pin, Press Fit PC Tail, Available*

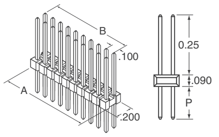

PC Tail P (Inch)	Molex Part No.
.107	10-89-7xx2 10-89-7xx1 70280-04xx
.187	75102-0xxx

Fig. 5 — C-Grid® Breakaway Header – Low Profile, Dual Row, Right Angle

Features: • 250V • 2.5A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 600V • Insulation Resistance: 1,000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Copper Alloy • Temperature Range: -40°C ~ 120°C • UL File No.: E29179 (H)

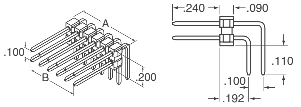

Fig. 6 — C-Grid® Header – Dual Row, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 600V • Insulation Resistance: 1,000 MΩ minimum • Housing: High temperature thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Operating Temperature: -40°C ~ 120°C • UL File No.: E29179 (H) • CSA File No.: LR19980A

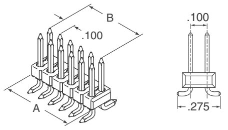

Fig. 7 — C-Grid® 2.54mm Pitch Shunt/Jumper

Features: • 250V • 5.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1000V • Insulation Resistance: 100K MΩ minimum • Housing: Glass-filled polyester, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • Closed Top • UL File No.: E29179 (H) • CSA File No.: LR19980A

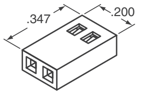

Circuits	Dim. (Inch)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	100	
.100” KK® Breakaway Header — RoHS Compliant							
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6002-ND	1.52	1.26	.95	22-28-8020
3	.300	.200	WM6003-ND	1.52	1.26	.95	22-28-8030
4	.400	.300	WM6004-ND	1.52	1.26	.95	22-28-8040
5	.500	.400	WM6005-ND	1.52	1.26	.95	22-28-8050
6	.600	.500	WM6006-ND	1.52	1.26	.95	22-28-8060
7	.700	.600	WM6007-ND	1.52	1.26	.95	22-28-8070
8	.800	.700	WM6008-ND	1.52	1.26	.95	22-28-8080
9	.900	.800	WM6009-ND	1.52	1.26	.95	22-28-8090
10	1.000	.900	WM6010-ND	1.52	1.26	.95	22-28-8100
11	1.100	1.000	WM6011-ND	1.52	1.26	.95	22-28-8110
12	1.200	1.100	WM6012-ND	1.52	1.26	.95	22-28-8120
14	1.400	1.300	WM6014-ND	1.52	1.26	.95	22-28-8140
16	1.600	1.500	WM6016-ND	1.52	1.26	.95	22-28-8160
18	1.800	1.700	WM6018-ND	1.52	1.26	.95	22-28-8180
22	2.200	2.100	WM6022-ND	1.52	1.26	.95	22-28-8220
24	2.400	2.300	WM6024-ND	1.52	1.26	.95	22-28-8240
26	2.600	2.500	WM6026-ND	1.52	1.26	.95	22-28-8260
28	2.800	2.700	WM6028-ND	1.52	1.26	.95	22-28-8280
30	3.000	2.900	WM6030-ND	1.52	1.26	.95	22-28-8300
32	3.200	3.100	WM6032-ND	1.52	1.26	.95	22-28-8320
34	3.400	3.300	WM6034-ND	1.52	1.26	.95	22-28-8340
36	3.600	3.500	WM6036-ND	1.81	1.41	1.08	22-28-8360
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6102-ND	.39	.35	.24	22-28-8022
3	.300	.200	WM6103-ND	.48	.43	.29	22-28-8032
4	.400	.300	WM6104-ND	.57	.51	.34	22-28-8042
5	.500	.400	WM6105-ND	.66	.59	.39	22-28-8052
6	.600	.500	WM6106-ND	.75	.67	.45	22-28-8062
7	.700	.600	WM6107-ND	.84	.75	.50	22-28-8072
8	.800	.700	WM6108-ND	.93	.83	.55	22-28-8082
9	.900	.800	WM6109-ND	1.02	.91	.61	22-28-8092
10	1.000	.900	WM6110-ND	1.11	.98	.66	22-28-8102
11	1.100	1.000	WM6111-ND	1.20	1.06	.71	22-28-8112
12	1.200	1.100	WM6112-ND	1.29	1.14	.76	22-28-8122
14	1.400	1.300	WM6114-ND	1.47	1.30	.87	22-28-8142
16	1.600	1.500	WM6116-ND	1.65	1.46	.98	22-28-8162
18	1.800	1.700	WM6118-ND	1.83	1.62	1.08	22-28-8182
20	2.000	1.900	WM6120-ND	2.01	1.78	1.19	22-28-8202
22	2.200	2.100	WM6122-ND	2.19	1.94	1.29	22-28-8222
24	2.400	2.300	WM6124-ND	2.37	2.09	1.40	22-28-8242
26	2.600	2.500	WM6126-ND	2.55	2.25	1.50	22-28-8262
28	2.800	2.700	WM6128-ND	2.73	2.41	1.61	22-28-8282
30	3.000	2.900	WM6130-ND	2.91	2.57	1.71	22-28-8302
32	3.200	3.100	WM6132-ND	3.09	2.73	1.82	22-28-8322
34	3.400	3.300	WM6134-ND	3.27	2.89	1.93	22-28-8342
36	3.600	3.500	WM6136-ND	3.58	3.16	2.11	22-28-8362
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6202-ND	.36	.32	.21	22-28-8021
3	.300	.200	WM6203-ND	.43	.38	.26	22-28-8031
4	.400	.300	WM6204-ND	.50	.45	.30	22-28-8041
5	.500	.400	WM6205-ND	.57	.51	.34	22-28-8051
6	.600	.500	WM6206-ND	.65	.57	.38	22-28-8061
7	.700	.600	WM6207-ND	.72	.64	.43	22-28-8071
8	.800	.700	WM6208-ND	.79	.70	.47	22-28-8081
9	.900	.800	WM6209-ND	.86	.77	.51	22-28-8091
10	1.000	.900	WM6210-ND	.93	.83	.55	22-28-8101
11	1.100	1.000	WM6211-ND	1.01	.89	.60	22-28-8111
12	1.200	1.100	WM6212-ND	1.08	.96	.64	22-28-8121
14	1.400	1.300	WM6214-ND	1.22	1.08	.72	22-28-8141
16	1.600	1.500	WM6216-ND	1.37	1.21	.81	22-28-8161
18	1.800	1.700	WM6218-ND	1.51	1.34	.89	22-28-8181
20	2.000	1.900	WM6220-ND	1.66	1.47	.98	22-28-8201
22	2.200	2.100	WM6222-ND	1.80	1.59	1.06	22-28-8221
24	2.400	2.300	WM6224-ND	1.95	1.72	1.15	22-28-8241
26	2.600	2.500	WM6226-ND	2.09	1.85	1.23	22-28-8261
28	2.800	2.700	WM6228-ND	2.24	1.98	1.32	22-28-8281
30	3.000	2.900	WM6230-ND	2.38	2.10	1.40	22-28-8301
32	3.200	3.100	WM6232-ND	2.52	2.23	1.49	22-28-8321
34	3.400	3.300	WM6234-ND	2.67	2.36	1.57	22-28-8341
36	3.600	3.500	WM6236-ND	2.92	2.58	1.72	22-28-8361
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6302-ND	.39	.35	.24	22-28-8023
3	.300	.200	WM6303-ND	.48	.43	.29	22-28-8033
4	.400	.300	WM6304-ND	.57	.51	.34	22-28-8043
5	.500	.400	WM6305-ND	.66	.59	.39	22-28-8053
6	.600	.500	WM6306-ND	.75	.67	.45	22-28-8063
7	.700	.600	WM6307-ND	.84	.75	.50	22-28-8073
8	.800	.700	WM6308-ND	.93	.83	.55	22-28-8083
9	.900	.800	WM6309-ND	1.02	.91	.61	22-28-8093
10	1.000	.900	WM6310-ND	1.11	.98	.66	22-28-8103
11	1.100	1.000	WM6311-ND	1.20	1.06	.71	22-28-8113
12	1.200	1.100	WM6312-ND	1.29	1.14	.76	22-28-8123
14	1.400	1.300	WM6314-ND	1.47	1.30	.87	22-28-8143
16	1.600	1.500	WM6316-ND	1.65	1.46	.98	22-28-8163
18	1.800	1.700	WM6318-ND	1.83	1.62	1.08	22-28-8183
20	2.000	1.900	WM6320-ND	2.01	1.78	1.19	22-28-8203
22	2.200	2.100	WM6322-ND	2.19	1.94	1.29	22-28-8223
24	2.400	2.300	WM6324-ND	2.37	2.09	1.40	22-28-8243
26	2.600	2.500	WM6326-ND	2.55	2.25	1.50	22-28-8263
28	2.800	2.700	WM6328-ND	2.73	2.41	1.61	22-28-8283
30	3.000	2.900	WM6330-ND	2.91	2.57	1.71	22-28-8303
32	3.200	3.100	WM6332-ND	3.09	2.73	1.82	22-28-8323
34	3.400	3.300	WM6334-ND	3.27	2.89	1.93	22-28-8343
36	3.600	3.500	WM6336-ND	3.58	3.16	2.11	22-28-8363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6402-ND	.29	.26	.18	22-28-4020
3	.300	.200	WM6403-ND	.34	.30	.20	22-28-4030
4	.400	.300	WM6404-ND	.38	.34	.23	22-28-4040
5	.500	.400	WM6405-ND	.42	.37	.25	22-28-4050
6	.600	.500	WM6406-ND	.46	.41	.27	22-28-4060
7	.700	.600	WM6407-ND	.50	.44	.30	22-28-4070
8	.800	.700	WM6408-ND	.54	.48	.32	22-28-4080
9	.900	.800	WM6409-ND	.58	.52	.35	22-28-4090
10	1.000	.900	WM6410-ND	.62	.55	.37	22-28-4100
11	1.100	1.000	WM6411-ND	.66	.59	.39	22-28-4110
12	1.200	1.100	WM6412-ND	.70	.62	.42	22-28-4120
14	1.400	1.300	WM6414-ND	.78	.70	.47	22-28-4140
16	1.600	1.500	WM6416-ND	.87	.77	.51	22-28-4160
18	1.800	1.700	WM6418-ND	.95	.84	.56	22-28-4180
20	2.000	1.900	WM6420-ND	1.03	.91	.61	22-28-4200
22	2.200	2.100	WM6422-ND	1.11	.98	.66	22-28-4220
24	2.400	2.300	WM6424-ND	1.19	1.06	.71	22-28-4240
26	2.600	2.500	WM6426-ND	1.27	1.13	.75	22-28-4260
28	2.800	2.700	WM6428-ND	1.36	1.20	.80	22-28-4280
30	3.000	2.900	WM6430-ND	1.44	1.27	.85	22-28-4300
32	3.200	3.100	WM6432-ND	1.52	1.35	.90	22-28-4320
34	3.400	3.300	WM6434-ND	1.60	1.42	.95	22-28-4340
36	3.600	3.500	WM6436-ND	1.03	.80	.61	22-28-4360
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6502-ND	.33	.29	.20	22-28-4023
3	.300	.200	WM6503-ND	.38	.34	.23	22-28-4033
4	.400	.300	WM6504-ND	.44	.39	.26	22-28-4043
5	.500	.400	WM6505-ND	.50	.44	.30	22-28-4053
6	.600	.500	WM6506-ND	.55	.49	.33	22-28-4063
7	.700	.600	WM6507-ND	.61	.54	.36	22-28-4073
8	.800	.700	WM6508-ND	.66	.59	.40	22-28-4083
9	.900	.800	WM6509-ND	.72	.64	.43	22-28-4093
10	1.000	.900	WM6510-ND	.78	.69	.46	22-28-4103
11	1.100	1.000	WM6511-ND	.83	.74	.50	22-28-4113
12	1.200	1.100	WM6512-ND	.89	.79	.53	22-28-4123
14	1.400	1.300	WM6514-ND	1.00	.89	.60	22-28-4143
16	1.600	1.500	WM6516-ND	1.12	.99	.66	22-28-4163
18	1.800	1.700	WM6518-ND	1.23	1.09	.73	22-28-4183
20	2.000	1.900	WM6520-ND	1.34	1.19	.80	22-28-4203
22	2.200	2.100	WM6522-ND	1.46	1.29	.86	22-28-4223
24	2.400	2.300	WM6524-ND	1.57	1.39	.93	22-28-4243
26	2.600	2.500	WM6526-ND	1.68	1.49	.99	22-28-4263
28	2.800	2.700	WM6528-ND	1.80	1.59	1.06	22-28-4283
30	3.000	2.900	WM6530-ND	1.91	1.69	1.13	22-28-4303
32	3.200	3.100	WM6532-ND	2.02	1.79	1.19	22-28-4323
34	3.400	3.300	WM6534-ND	2.13	1.89	1.26	22-28-4343
36	3.600	3.500	WM6536-ND	1.42	1.11	.85	22-28-4363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6602-ND	.33	.29	.20	22-28-4021
3	.300	.200	WM6603-ND	.38	.34	.23	22-28-4031
4	.400	.300	WM6604-ND	.44	.39	.26	22-28-4041
5	.500	.400	WM6605-ND	.50	.44	.30	22-28-4051
6	.600	.500	WM6606-ND	.55	.49	.33	22-28-4061
7	.700	.600	WM6607-ND	.61	.54	.36	22-28-4071
8	.800	.700	WM6608-ND	.66	.59	.40	22-28-4081
9	.900	.800	WM6609-ND	.72	.64	.43	22-28-4091
10	1.000	.900	WM6610-ND	.78	.69	.46	22-28-4101
11	1.100	1.000	WM6611-ND	.83	.74	.50	22-28-4111
12	1.200	1.100	WM6612-ND	.89	.79	.53	22-28-4121
14	1.400	1.300	WM6614-ND	1.00	.89	.60	22-28-4141
18	1.800	1.700	WM6618-ND	1.23	1.09	.73	22-28-4181
20	2.000	1.900	WM6620-ND	1.34	1.19	.80	22-28-4201
22	2.200	2.100	WM6622-ND	1.46	1.29	.86	22-28-4221
24	2.400	2.300	WM6624-ND	1.57	1.39	.93	22-28-4241
26	2.600	2.500	WM6626-ND	1.68	1.49	.99	22-28-4261
28	2.800	2.700	WM6628-ND	1.80	1.59	1.06	22-28-4281
30	3.000	2.900	WM6630-ND	1.91	1.69	1.13	22-28-4301
32	3.200	3.100	WM6632-ND	2.02	1.79	1.19	22-28-4321
34	3.400	3.300	WM6634-ND	2.13	1.89	1.26	22-28-4341
36	3.600	3.500	WM6636-ND	2.33	2.06	1.37	22-28-4361
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6702-ND	.35	.32	.21	22-28-4024
3	.300	.200	WM6703-ND	.42	.38	.25	22-28-4034
4	.400	.300	WM6704-ND	.49	.44	.30	22-28-4044
5	.500	.400	WM6705-ND	.56	.50	.34	22-28-4054
6	.600	.500	WM6706-ND	.63	.56	.38	22-28-4064

◆ ***RoHS Compliant***

(Continued)

molex® .100” KK® and .100” C-Grid® Breakaway Headers *(Cont.)*

Cir-cuits	Dim. (Inch)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	100	
7	.700	.600	WM6707-ND	.70	.63	.42	22-28-4074
8	.800	.700	WM6708-ND	.77	.69	.46	22-28-4084
9	.900	.800	WM6709-ND	.84	.75	.50	22-28-4094
10	1.000	.900	WM6710-ND	.91	.81	.54	22-28-4104
11	1.100	1.000	WM6711-ND	.98	.87	.58	22-28-4114
12	1.200	1.100	WM6712-ND	1.05	.93	.63	22-28-4124
14	1.400	1.300	WM6714-ND	1.19	1.06	.71	22-28-4144
16	1.600	1.500	WM6716-ND	1.34	1.18	.79	22-28-4164
18	1.800	1.700	WM6718-ND	1.48	1.31	.87	22-28-4184
20	2.000	1.900	WM6720-ND	1.62	1.43	.96	22-28-4204
22	2.200	2.100	WM6722-ND	1.76	1.55	1.04	22-28-4224
24	2.400	2.300	WM6724-ND	1.90	1.68	1.12	22-28-4244
26	2.600	2.500	WM6726-ND	2.04	1.80	1.20	22-28-4264
28	2.800	2.700	WM6728-ND	2.18	1.93	1.29	22-28-4284
30	3.000	2.900	WM6730-ND	2.32	2.05	1.37	22-28-4304
32	3.200	3.100	WM6732-ND	2.46	2.17	1.45	22-28-4324
34	3.400	3.300	WM6734-ND	2.60	2.30	1.53	22-28-4344
36	3.600	3.500	WM6736-ND	1.76	1.37	1.05	22-28-4364
Fig. 3 — Single Row, Vertical - Tin							
3	.300	.200	WM17436-ND	.47	.42	.28	68301-1014
4	.400	.300	WM17437-ND	.57	.51	.34	68301-1015
8	.800	.700	WM17441-ND	1.17	1.04	.69	68301-1019
Fig. 3 — Single Row, Vertical - 15µ Select Gold							
4	.400	.300	WM17444-ND	.68	.61	.41	68301-1010
7	.700	.600	WM17447-ND	1.17	1.04	.69	68301-1012
.100” C-Grid® Breakaway Header							
Fig. 4 — Dual Row, Vertical - 15µ min. Select Gold — RoHS Compliant							
4	.200	.100	WM26804-ND	.56	.50	.34	10-89-7042
6	.300	.200	WM26806-ND	.74	.66	.44	10-89-7062
8	.400	.300	WM26808-ND	.91	.81	.54	10-89-7082
10	.500	.400	WM26810-ND	1.09	.96	.64	10-89-7102
12	.600	.500	WM26812-ND	1.26	1.12	.75	10-89-7122
14	.700	.600	WM26814-ND	1.44	1.27	.85	10-89-7142
16	.800	.700	WM26816-ND	1.61	1.43	.95	10-89-7162
18	.900	.800	WM26818-ND	1.79	1.58	1.06	10-89-7182
20	1.000	.900	WM26820-ND	1.96	1.74	1.16	10-89-7202
22	1.100	1.000	WM26822-ND	2.14	1.89	1.26	10-89-7222
24	1.200	1.100	WM26824-ND	2.31	2.05	1.37	10-89-7242
26	1.300	1.200	WM26826-ND	2.49	2.20	1.47	10-89-7262
28	1.400	1.300	WM26828-ND	2.66	2.35	1.57	10-89-7282
30	1.500	1.400	WM26830-ND	2.84	2.51	1.67	10-89-7302
32	1.600	1.500	WM26832-ND	3.01	2.66	1.78	10-89-7322
34	1.700	1.600	WM26834-ND	3.19	2.82	1.88	10-89-7342
36	1.800	1.700	WM26836-ND	3.36	2.97	1.98	10-89-7362
38	1.900	1.800	WM26838-ND	3.54	3.13	2.09	10-89-7382
40	2.000	1.900	WM26840-ND	3.71	3.28	2.19	10-89-7402
42	2.100	2.000	WM26842-ND	3.89	3.44	2.29	10-89-7422
44	2.200	2.100	WM26844-ND	4.06	3.59	2.40	10-89-7442
46	2.300	2.200	WM26846-ND	4.24	3.74	2.50	10-89-7462
48	2.400	2.300	WM26848-ND	4.41	3.90	2.60	10-89-7482
50	2.500	2.400	WM26850-ND	4.59	4.05	2.70	10-89-7502
52	2.600	2.500	WM26852-ND	4.76	4.21	2.81	10-89-7522
54	2.700	2.600	WM26854-ND	4.94	4.36	2.91	10-89-7542
56	2.800	2.700	WM26856-ND	5.11	4.52	3.01	10-89-7562
58	2.900	2.800	WM26858-ND	5.29	4.67	3.12	10-89-7582
60	3.000	2.900	WM26860-ND	5.46	4.83	3.22	10-89-7602
62	3.100	3.000	WM26862-ND	5.64	4.98	3.32	10-89-7622
64	3.200	3.100	WM26864-ND	5.81	5.13	3.42	10-89-7642
66	3.300	3.200	WM26866-ND	5.99	5.29	3.53	10-89-7662
68	3.400	3.300	WM26868-ND	6.16	5.44	3.63	10-89-7682
70	3.500	3.400	WM26870-ND	6.34	5.60	3.73	10-89-7702
72	3.600	3.500	WM26872-ND	6.51	5.75	3.84	10-89-7722
74	3.700	3.600	WM26874-ND	6.69	5.91	3.94	10-89-7742
76	3.800	3.700	WM26876-ND	6.86	6.06	4.04	10-89-7762
78	3.900	3.800	WM26878-ND	7.04	6.22	4.15	10-89-7782
80	4.000	3.900	WM26880-ND	7.21	6.37	4.25	10-89-7802
100	5.000	4.900	WM268100-ND	6.19	5.13	3.85	70280-0458
Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 15µ min. Select Gold — RoHS Compliant							
4	.190	.100	WM7504-ND	.91	.81	.54	75102-0040
6	.290	.200	WM7506-ND	1.26	1.12	.75	75102-0041
8	.390	.300	WM7508-ND	1.61	1.43	.95	75102-0042
10	.490	.400	WM7510-ND	1.96	1.74	1.16	75102-0043
12	.590	.500	WM7512-ND	2.31	2.05	1.37	75102-0044
14	.690	.600	WM7514-ND	2.66	2.35	1.57	75102-0045
16	.790	.700	WM7516-ND	3.01	2.66	1.78	75102-0046
18	.890	.800	WM7518-ND	3.36	2.97	1.98	75102-0047
20	.990	.900	WM7520-ND	3.71	3.28	2.19	75102-0048
22	1.090	1.000	WM7522-ND	4.06	3.59	2.40	75102-0049
24	1.190	1.100	WM7524-ND	4.41	3.90	2.60	75102-0050
26	1.290	1.200	WM7526-ND	4.76	4.21	2.81	75102-0051
28	1.390	1.300	WM7528-ND	5.11	4.52	3.01	75102-0052
30	1.490	1.400	WM7530-ND	5.46	4.83	3.22	75102-0053
32	1.590	1.500	WM7532-ND	5.82	5.14	3.43	75102-0054
34	1.690	1.600	WM7534-ND	6.17	5.44	3.63	75102-0055
36	1.790	1.700	WM7536-ND	6.52	5.75	3.84	75102-0056
38	1.890	1.800	WM7538-ND	6.87	6.06	4.04	75102-0057
40	1.990	1.900	WM7540-ND	7.22	6.37	4.25	75102-0058
42	2.090	2.000	WM7542-ND	7.57	6.68	4.46	75102-0059
44	2.190	2.100	WM7544-ND	7.92	6.99	4.66	75102-0060
46	2.290	2.200	WM7546-ND	8.27	7.30	4.87	75102-0061
48	2.390	2.300	WM7548-ND	8.62	7.61	5.07	75102-0062
50	2.490	2.400	WM7550-ND	8.97	7.92	5.28	75102-0063
52	2.590	2.500	WM7552-ND	9.32	8.23	5.49	75102-0064
54	2.690	2.600	WM7554-ND	9.67	8.53	5.69	75102-0065
56	2.790	2.700	WM7556-ND	10.02	8.84	5.90	75102-0066
58	2.890	2.800	WM7558-ND	10.37	9.15	6.10	75102-0067
60	2.990	2.900	WM7560-ND	10.72	9.46	6.31	75102-0068
62	3.090	3.000	WM7562-ND	11.07	9.77	6.52	75102-0069
64	3.190	3.100	WM7564-ND	11.42	10.08	6.72	75102-0070
66	3.290	3.200	WM7566-ND	11.77	10.39	6.93	75102-0071
68	3.390	3.300	WM7568-ND	12.12	10.70	7.13	75102-0072
70	3.490	3.400	WM7570-ND	12.47	11.01	7.34	75102-0073
72	3.590	3.500	WM7572-ND	12.82	11.31	7.55	75102-0074
74	3.690	3.600	WM7574-ND	13.17	11.62	7.75	75102-0075
76	3.790	3.700	WM7576-ND	13.52	11.93	7.96	75102-0076
Fig. 4 — Dual Row, Vertical - Tin — RoHS Compliant							
4	.200	.100	WM26904-ND	.61	.54	.36	10-89-7041
6	.300	.200	WM26906-ND	.81	.72	.48	10-89-7061
8	.400	.300	WM26908-ND	1.01	.89	.60	10-89-7081
10	.500	.400	WM26910-ND	1.21	1.07	.71	10-89-7101
12	.600	.500	WM26912-ND	1.40	1.24	.83	10-89-7121
14	.700	.600	WM26914-ND	1.60	1.42	.95	10-89-7141
16	.800	.700	WM26916-ND	1.80	1.59	1.06	10-89-7161
18	.900	.800	WM26918-ND	2.00	1.77	1.18	10-89-7181
20	1.000	.900	WM26920-ND	2.20	1.94	1.30	10-89-7201
22	1.100	1.000	WM26922-ND	2.40	2.12	1.42	10-89-7221
24	1.200	1.100	WM26924-ND	2.60	2.30	1.53	10-89-7241
26	1.300	1.200	WM26926-ND	2.79	2.47	1.65	10-89-7261
28	1.400	1.300	WM26928-ND	2.99	2.65	1.77	10-89-7281
30	1.500	1.400	WM26930-ND	3.19	2.82	1.88	10-89-7301
32	1.600	1.500	WM26932-ND	3.39	3.00	2.00	10-89-7321
34	1.700	1.600	WM26934-ND	3.59	3.17	2.12	10-89-7341
36	1.800	1.700	WM26936-ND	3.79	3.35	2.23	10-89-7361
38	1.900	1.800	WM26938-ND	3.99	3.52	2.35	10-89-7381
40	2.000	1.900	WM26940-ND	4.19	3.70	2.47	10-89-7401
42	2.100	2.000	WM26942-ND	4.38	3.87	2.58	10-89-7421
44	2.200	2.100	WM26944-ND	4.58	4.05	2.70	10-89-7441
46	2.300	2.200	WM26946-ND	4.78	4.22	2.82	10-89-7461
48	2.400	2.300	WM26948-ND	4.98	4.40	2.93	10-89-7481
50	2.500	2.400	WM26950-ND	5.18	4.57	3.05	10-89-7501
52	2.600	2.500	WM26952-ND	5.38	4.75	3.17	10-89-7521
54	2.700	2.600	WM26954-ND	5.58	4.92	3.28	10-89-7541
56	2.800	2.700	WM26956-ND	5.77	5.10	3.40	10-89-7561
58	2.900	2.800	WM26958-ND	5.97	5.27	3.52	10-89-7581
60	3.000	2.900	WM26960-ND	6.17	5.45	3.64	10-89-7601
62	3.100	3.000	WM26962-ND	6.37	5.63	3.75	10-89-7621
64	3.200	3.100	WM26964-ND	6.57	5.80	3.87	10-89-7641
66	3.300	3.200	WM26966-ND	6.77	5.98	3.99	10-89-7661
68	3.400	3.300	WM26968-ND	6.97	6.15	4.10	10-89-7681
70	3.500	3.400	WM26970-ND	7.17	6.33	4.22	10-89-7701
72	3.600	3.500	WM26972-ND	7.36	6.50	4.34	10-89-7721
74	3.700	3.600	WM26974-ND	7.56	6.68	4.45	10-89-7741
76	3.800	3.700	WM26976-ND	7.76	6.85	4.57	10-89-7761
78	3.900	3.800	WM26978-ND	7.96	7.03	4.69	10-89-7781
80	4.000	3.900	WM26980-ND	8.16	7.20	4.80	10-89-7801
100	5.000	4.900	WM269100-ND	7.95	7.02	4.68	70280-0448
Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 150µ Tin/Lead, Nickel Overall — RoHS Compliant							
4	.190	.100	WM7404-ND	.72	.64	.43	75102-0079
6	.290	.200	WM7406-ND	.97	.86	.58	75102-0080
8	.390	.300	WM7408-ND	1.23	1.09	.73	75102-0081
10	.490	.400	WM7410-ND	1.48	1.31	.88	75102-0082
12	.590	.500	WM7412-ND	1.74	1.54	1.03	75102-0083
14	.690	.600	WM7414-ND	1.99	1.76	1.18	75102-0084
16	.790	.700	WM7416-ND	2.24	1.98	1.33	75102-0085
18	.890	.800	WM7418-ND	2.50	2.21	1.47	75102-0086
20	.990	.900	WM7420-ND	2.75	2.43	1.62	75102-0087
22	1.090	1.000	WM7422-ND	3.01	2.66	1.77	75102-0088
24	1.190	1.100	WM7424-ND	3.26	2.88	1.92	75102-0089
26	1.290	1.200	WM7426-ND	3.51	3.10	2.07	75102-0090
28	1.390	1.300	WM7428-ND	3.77	3.33	2.22	75102-0091
30	1.490	1.400	WM7430-ND	4.02	3.55	2.37	75102-0092
32	1.590	1.500	WM7432-ND	4.28	3.78	2.52	75102-0093
34	1.690	1.600	WM7434-ND	4.53	4.00	2.67	75102-0094
36	1.790	1.700	WM7436-ND	4.78	4.23	2.82	75102-0095
38	1.890	1.800	WM7438-ND	5.04	4.45	2.97	75102-0096
40	1.990	1.900	WM7440-ND	5.29	4.67	3.12	75102-0097
42	2.090	2.000	WM7442-ND	5.55	4.90	3.27	75102-0098
44	2.190	2.100	WM7444-ND	5.80	5.12	3.42	75102-0099
46	2.290	2.200	WM7446-ND	6.05	5.35	3.57	75102-0100
48	2.390	2.300	WM7448-ND	6.31	5.57	3.72	75102-0101
50	2.490	2.400	WM7450-ND	6.56	5.79	3.86	75102-0102
52	2.590	2.500	WM7452-ND	6.82	6.02	4.01	75102-0103
54	2.690	2.600	WM7454-ND	7.07	6.24	4.16	75102-0104
56	2.790	2.700	WM7456-ND	7.32	6.47	4.31	75102-0105
58	2.890	2.800	WM7458-ND	7.58	6.69	4.46	75102-0106
60	2.990	2.900	WM7460-ND	7.83	6.91	4.61	75102-0107
62	3.090	3.000	WM7462-ND	8.08	7.14	4.76	75102-0108
64	3.190	3.100	WM7464-ND	8.34	7.36	4.91	75102-0109
66	3.290	3.200	WM7466-ND	8.59	7.59	5.06	75102-0110
68	3.390	3.300	WM7468-ND	8.85	7.81	5.21	75102-0111
70	3.490	3.400	WM7470-ND	9.10	8.03	5.36	75102-0112
72	3.590	3.500	WM7472-ND	9.35	8.26	5.51	75102-0113
74	3.690	3.600	WM7474-ND	9.61	8.48	5.66	75102-0114
76	3.790	3.700	WM7476-ND	9.86	8.71	5.81	75102-0115
78	3.890	3.800	WM7478-ND	10.12	8.93	5.96	75102-0116
80	3.990	3.900	WM7480-ND	10.37	9.15	6.11	75102-0117
Fig. 5 — Dual Row, Low Profile, Right Angle - 150µ Tin/Lead, Nickel Overall — RoHS Compliant							
4	.200	.100	WM27104-ND	.50	.45	.30	71764-0004
6	.300	.200	WM27106-ND	.64	.57	.38	71764-0006
8	.400	.300	WM27108-ND	.79	.70	.47	71764-0008
10	.500	.400	WM27110-ND	.93	.82	.55	71764-0010
12	.600	.500	WM27112-ND	1.07	.95	.64	71764-0012
14	.700	.600	WM27114-ND	1.22	1.08	.72	71764-0014
16	.800	.700	WM27116-ND	1.36	1.20	.80	71764-0016
18	.900	.800	WM27118-ND	1.50	1.33	.89	71764-0018
20	1.000	.900	WM27120-ND	1.65	1.46	.97	71764-0020
22	1.100	1.000	WM27122-ND	1.79	1.58	1.06	71764-0022
24	1.200	1.100	WM27124-ND	1.93	1.71	1.14	71764-0024
26	1.300	1.200	WM27126-ND	2.08	1.84	1.23	71764-0026
28	1.400	1.300	WM27128-ND	2.22	1.96	1.31	71764-0028
30	1.500	1.400	WM27130-ND	3.25	2.87	1.92	71764-0030
Fig. 6 — Dual Row, Vertical - Tin							
6	.300	.200	WM17449-ND◆	.68	.60	.40	15-91-2060
8	.400	.300	WM17450-ND◆	.91	.80	.54	15-91-2080
10	.500	.400	WM17451-ND◆	1.01	.90	.60	15-91-2100
12	.600	.500	WM17452-ND◆	1.21	1.08	.72	15-91-2120
14	.700	.600	WM17453-ND◆	1.42	1.25	.84	15-91-2140
16	.800	.700	WM17454-ND◆	1.62	1.43	.96	15-91-2160
18	.900	.800	WM17455-ND	1.82	1.61	1.08	15-91-2180
20	1.000	.900	WM17456-ND◆	1.96	1.73	1.16	15-91-2200
Fig. 6 — Dual Row, Vertical - 15µ Select Gold							
6	.300	.200	WM17457-ND◆	.77	.68	.46	15-91-0060
8	.400	.300	WM17458-ND◆	1.03	.91	.61	15-91-0080
10	.500	.400	WM17459-ND◆	1.15	1.02	.68	15-91-0100
12	.600	.500	WM17460-ND◆	1.38	1.22	.81	15-91-0120
14	.700	.600	WM17461-ND◆	1.61	1.42	.95	15-91-0140
16	.800	.700	WM17462-ND◆	1.83	1.62	1.08	15-91-0160
18	.900	.800	WM17463-ND	2.06	1.83	1.22	15-91-0180
20	1.000	.900	WM17464-ND◆	2.23	1.97	1.31	15-91-0200

◆ ***RoHS Compliant***

Plating	Digi-Key Part No.	Price Each			Molex Part No.
		1	10	100	
Fig. 7 — Shunt/Jumper — RoHS Compliant					
Gold	WM23943-ND	.50	.32	.18	15-29-1025
Tin	WM23944-ND	.38	.34	.23	15-38-1026

.100” KK® PC Board Receptacles, Top and Bottom Entry, Low Profile

Material:

- Housing: High temperature nylon, Glass-filled, UL 94V, Color: Black
- Terminal: Modified Tin/Brass alloy

Finish:

- Tin: 200µ Minimum
- Select Gold: 15µ Minimum

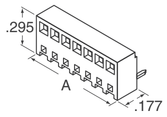

Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
Tin						
2	.230 (5.84)	WM18590-ND◆	.36	.33	.22	44812-0002
3	.330 (8.38)	WM18591-ND◆	.52	.47	.31	44812-0003
4	.430 (10.92)	WM18592-ND◆	.73	.65	.43	44812-0004
5	.530 (13.46)	WM18593-ND◆	.92	.81	.54	44812-0005
6	.630 (16.00)	WM18594-ND◆	1.10	.98	.65	44812-0006
8	.830 (21.08)	WM18596-ND	1.47	1.30	.87	44812-0008
9	.930 (23.62)	WM18597-ND◆	1.64	1.46	.97	44812-0009
12	1.230 (31.24)	WM18600-ND◆	2.19	1.94	1.30	44812-0012
Select Gold						
3	.330 (8.38)	WM18602-ND◆	1.06	.94	.63	44812-0021
4	.430 (10.92)	WM18603-ND◆	1.41	1.25	.84	44812-0022
5	.530 (13.46)	WM18604-ND	1.77	1.57	1.05	44812-0023
6	.630 (16.00)	WM18605-ND◆	2.12	1.87	1.25	44812-0024
7	.730 (18.54)	WM18606-ND	2.48	2.19	1.46	44812-0025
10	1.030 (26.16)	WM18609-ND◆	3.53	3.12	2.08	44812-0028
11	1.130 (28.70)	WM18610-ND	3.89	3.44	2.29	44812-0029
12	1.230 (31.24)	WM18611-ND◆	4.24	3.75	2.50	44812-0030

◆ ***RoHS Compliant***

molex® .100" (2.54mm) Center Headers

.025" (.64mm) Square Pins

The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. Board pins. UL Recognized (File #29179), CSA Recognized (File 19980)

- **Voltage Rating:** 250VAC maximum
- **Current Rating:** Up to 4 Amps (with 22AWG wire)
- **Resistance:** 20mΩ maximum
- **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds
- **Storage Temperature:** -40°C ~ 105°C
- **Material:** 94V-0

Fig. 1 - Straight Header

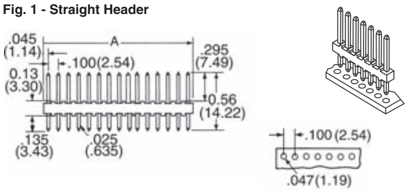

Fig. 2 - Right Angle Header

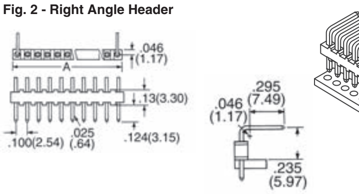

Fig. 3 - Straight - Friction Lock Header

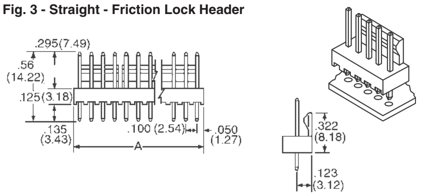

Fig. 4 - Right Angle - Friction Lock Header

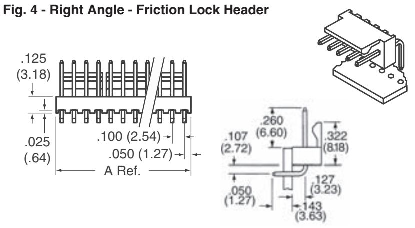

Fig. 5 - Straight - Friction Lock Header

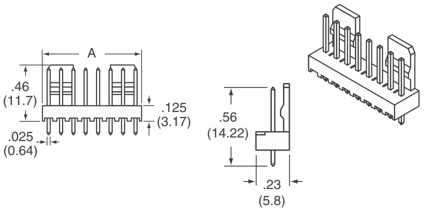

Fig. 6 - Center Crimp Terminal Housing
(Contacts sold separately)

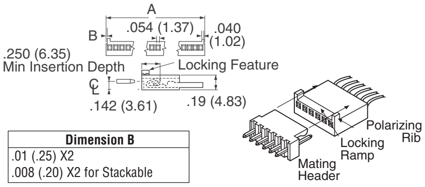

Dimension B
.01 (.25) X2
.008 (.20) X2 for Stackable

Fig.	Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.100" (2.54mm) Center Header - Tin							
1	2	.190 (4.83)	WM4000-ND	.44	2.55	11.28	22-03-2021
	3	.290 (7.37)	WM4001-ND	.52	3.26	18.73	22-03-2031
	4	.390 (9.91)	WM4002-ND	.32	2.68	19.86	22-03-2041
	5	.490 (12.45)	WM4003-ND	.57	5.03	33.50	22-03-2051
	6	.590 (14.99)	WM4004-ND	.74	5.18	34.80	22-03-2061
	7	.690 (17.53)	WM4005-ND	.80	7.08	47.20	22-03-2071
	8	.790 (20.07)	WM4006-ND	.80	7.08	47.20	22-03-2081
	9	.890 (22.61)	WM4007-ND	.90	7.93	52.85	22-03-2091
	10	.990 (25.15)	WM4008-ND	.91	7.99	53.28	22-03-2101
	11	1.09 (27.69)	WM4009-ND	1.00	8.85	58.98	22-03-2111
	12	1.19 (30.23)	WM4010-ND	1.10	9.69	64.63	22-03-2121
2	2	.190 (4.83)	WM4100-ND	.25	2.18	14.53	22-05-2021
	3	.290 (7.37)	WM4101-ND	.36	3.20	21.30	22-05-2031
	4	.390 (9.91)	WM4102-ND	.49	4.29	28.58	22-05-2041
	5	.490 (12.45)	WM4103-ND	.61	5.37	35.83	22-05-2051
	6	.590 (14.99)	WM4104-ND	.73	6.46	43.08	22-05-2061
	7	.690 (17.53)	WM4105-ND	.85	7.48	49.88	22-05-2071
	8	.790 (20.07)	WM4106-ND	.98	8.64	57.58	22-05-2081
	9	.890 (22.61)	WM4107-ND	1.10	9.73	64.88	22-05-2091
	10	.990 (25.15)	WM4108-ND	1.11	9.80	65.30	22-05-2101
	11	1.09 (27.69)	WM4109-ND	1.23	10.82	72.10	22-05-2111
	12	1.19 (30.23)	WM4110-ND	1.33	11.70	78.00	22-05-2121
3	2	.200 (5.08)	WM4200-ND	.42	2.56	12.82	22-23-2021
	3	.300 (7.62)	WM4201-ND	.53	3.28	18.85	22-23-2031
	4	.400 (10.16)	WM4202-ND	.67	4.15	23.88	22-23-2041
	5	.500 (12.70)	WM4203-ND	.80	4.95	28.48	22-23-2051
	6	.600 (15.24)	WM4204-ND	.65	4.57	30.71	22-23-2061
	7	.700 (17.78)	WM4205-ND	.89	6.21	41.67	22-23-2071
	8	.800 (20.32)	WM4206-ND	1.02	7.15	47.99	22-23-2081
	9	.900 (22.86)	WM4207-ND	.92	8.10	53.98	22-23-2091
	10	1.00 (25.40)	WM4208-ND	.93	8.16	54.43	22-23-2101
	11	1.10 (27.94)	WM4209-ND	1.02	8.99	59.90	22-23-2111
	12	1.20 (30.48)	WM4210-ND	1.11	9.80	65.30	22-23-2121
4	2	.200 (5.08)	WM4300-ND	.50	4.38	29.23	22-05-3021
	3	.300 (7.62)	WM4301-ND	.81	5.68	38.12	22-05-3031
	4	.400 (10.16)	WM4302-ND	1.04	7.28	48.88	22-05-3041
	5	.500 (12.70)	WM4303-ND	1.14	7.95	53.37	22-05-3051
	6	.600 (15.24)	WM4304-ND	1.07	9.41	62.73	22-05-3061
	7	.700 (17.78)	WM4305-ND	1.24	10.96	73.08	22-05-3071
	8	.800 (20.32)	WM4306-ND	1.41	10.94	83.48	22-05-3081
	9	.900 (22.86)	WM4307-ND	1.35	11.88	79.23	22-05-3091
	10	1.00 (25.40)	WM4308-ND	1.36	12.03	80.18	22-05-3101
	11	1.10 (27.94)	WM4309-ND	1.50	13.23	88.20	22-05-3111
	12	1.20 (30.48)	WM4310-ND	1.54	13.59	90.58	22-05-3121
.100" (2.54mm) Center Header - Gold							
1	2	.190 (4.83)	WM2722-ND	.76	4.75	27.28	22-10-2021
	3	.290 (7.37)	WM2723-ND	.84	7.43	49.53	22-10-2031
	4	.390 (9.91)	WM2724-ND	1.12	9.90	66.00	22-10-2041
	5	.490 (12.45)	WM2725-ND	1.40	12.38	82.55	22-10-2051
	6	.590 (14.99)	WM2726-ND	1.68	14.78	98.55	22-10-2061
	7	.690 (17.53)	WM2727-ND	1.87	16.49	109.93	22-10-2071
	8	.790 (20.07)	WM2728-ND	2.14	18.89	125.93	22-10-2081
	9	.890 (22.61)	WM2729-ND	2.41	21.22	141.48	22-10-2091
	10	.990 (25.15)	WM2730-ND	2.67	23.56	157.08	22-10-2101
	12	1.19 (30.23)	WM2732-ND	3.21	28.30	188.65	22-10-2121
2	2	.190 (4.83)	WM2733-ND	.59	5.24	34.93	22-12-2021
	3	.290 (7.37)	WM2734-ND	.86	7.62	50.78	22-12-2031
	4	.390 (9.91)	WM2735-ND	1.11	9.80	65.30	22-12-2041
	5	.490 (12.45)	WM2736-ND	1.39	12.25	81.65	22-12-2051
	6	.590 (14.99)	WM2737-ND	1.67	14.76	98.40	22-12-2061
	7	.690 (17.53)	WM2738-ND	1.95	17.21	114.75	22-12-2071
	8	.790 (20.07)	WM2739-ND	2.23	19.66	131.08	22-12-2081
	9	.890 (22.61)	WM2740-ND	2.51	22.18	147.85	22-12-2091
	10	.990 (25.15)	WM2741-ND	2.78	24.56	163.73	22-12-2101
	12	1.19 (30.23)	WM2743-ND	2.98	26.31	175.43	22-12-2121
3	2	.200 (5.08)	WM2700-ND	.83	5.13	29.50	22-11-2022
	3	.300 (7.62)	WM2701-ND	1.10	7.68	51.58	22-11-2032
	4	.400 (10.16)	WM2702-ND	1.14	7.97	53.53	22-11-2042
	5	.500 (12.70)	WM2703-ND	.97	7.54	56.23	22-11-2052
	6	.600 (15.24)	WM2704-ND	1.07	8.32	63.47	22-11-2062
	7	.700 (17.78)	WM2705-ND	1.91	16.88	112.50	22-11-2072
	8	.800 (20.32)	WM2706-ND	1.90	14.72	112.28	22-11-2082
	9	.900 (22.86)	WM2707-ND	2.25	19.86	132.43	22-11-2092
	10	1.00 (25.40)	WM2708-ND	2.50	22.04	146.95	22-11-2102
	11	1.10 (27.94)	WM2709-ND	2.75	24.29	161.90	22-11-2112
	12	1.20 (30.48)	WM2710-ND	3.00	26.46	176.40	22-11-2122
4	2	.200 (5.08)	WM2711-ND	1.19	10.47	69.80	22-12-2024
	3	.300 (7.62)	WM2712-ND	1.38	10.70	81.59	22-12-2034
	4	.400 (10.16)	WM2713-ND	1.80	15.92	106.10	22-12-2044
	5	.500 (12.70)	WM2714-ND	1.80	13.96	106.47	22-12-2054
	6	.600 (15.24)	WM2715-ND	1.67	13.91	103.04	22-12-2064
	7	.700 (17.78)	WM2716-ND	2.36	20.80	138.68	22-12-2074
	8	.800 (20.32)	WM2717-ND	2.46	21.72	144.80	22-12-2084
	9	.900 (22.86)	WM2718-ND	2.77	24.41	162.70	22-12-2094
	10	1.00 (25.40)	WM2719-ND	3.08	27.17	181.10	22-12-2104
	11	1.10 (27.94)	WM2720-ND	3.38	29.85	199.03	22-12-2114
	12	1.20 (30.48)	WM2721-ND	3.70	32.61	217.40	22-12-2124
Straight - Friction Lock Header - Tin							
5	2	.200 (5.08)	WM4111-ND	.35	3.12	20.78	22-27-2021
	3	.300 (7.62)	WM4112-ND	.53	4.67	31.15	22-27-2031
	4	.400 (10.16)	WM4113-ND	.58	5.10	33.98	22-27-2041
	5	.500 (12.70)	WM4114-ND	.84	5.20	29.90	22-27-2051
	6	.600 (15.24)	WM4115-ND	.84	5.23	30.05	22-27-2061
	7	.700 (17.78)	WM4116-ND	.80	7.08	47.20	22-27-2071
	8	.800 (20.32)	WM4117-ND	.91	8.07	53.80	22-27-2081
	9	.900 (22.86)	WM4118-ND	1.03	9.06	60.38	22-27-2091
	10	1.00 (25.40)	WM4119-ND	1.04	9.20	61.30	22-27-2101
	11	1.10 (27.94)	WM4120-ND	1.15	10.12	67.45	22-27-2111
	12	1.20 (30.48)	WM4121-ND	1.24	10.96	73.08	22-27-2121
Straight - Friction Lock Header - Gold							
5	2	.200 (5.08)	WM2744-ND	.68	6.02	40.10	22-29-2021
	3	.300 (7.62)	WM2745-ND	1.10	7.68	51.58	22-29-2031
	4	.400 (10.16)	WM2746-ND	1.15	10.12	67.45	22-29-2041
	5	.500 (12.70)	WM2747-ND	1.63	14.36	95.75	22-29-2051
	6	.600 (15.24)	WM2748-ND	1.80	15.85	105.65	22-29-2061
	7	.700 (17.78)	WM2749-ND	2.08	18.39	122.63	22-29-2071
	8	.800 (20.32)	WM2750-ND	2.18	19.25	128.33	22-29-2081
	9	.900 (22.86)	WM2751-ND	2.46	21.72	144.80	22-29-2091
	10	1.00 (25.40)	WM2752-ND	2.73	24.05	160.35	22-29-2101
	11	1.10 (27.94)	WM2753-ND	3.01	26.54	176.90	22-29-2111
	12	1.20 (30.48)	WM2754-ND	3.27	28.86	192.43	22-29-2121
.100" (2.54mm) Center Crimp Terminal Housing (Contacts Sold Separately Below) With Locking Ramp and Polarizing Ribs							
6	2	.222 (5.64)	WM2000-ND	.29	1.69	7.47	22-01-3027
	3	.322 (8.18)	WM2001-ND	.42	2.44	10.82	22-01-3037
	4	.422 (10.72)	WM2002-ND	.42	2.59	12.93	22-01-3047
	5	.522 (13.26)	WM2003-ND	.58	3.57	17.85	22-01-3057
	6	.622 (15.8)	WM2004-ND	.55	3.40	19.53	22-01-3067
	7	.722 (18.34)	WM2005-ND	.53	4.70	31.30	22-01-3077
	8	.822 (20.88)	WM2006-ND	.60	5.30	35.35	22-01-3087
	9	.922 (23.42)	WM2007-ND	.68	5.99	39.90	22-01-3097
	10	1.022 (25.96)	WM2008-ND	.76	6.67	44.48	22-01-3107
	11	1.122 (28.5)	WM2009-ND	.83	7.35	48.98	22-01-3117
	12	1.222 (31.04)	WM2010-ND	.90	7.96	53.08	22-01-3127
Without Locking Ramp or Polarizing Ribs							
6	2	.222 (5.64)	WM1575-ND	.12	1.04	6.90	22-01-2021
	3	.322 (8.18)	WM1576-ND	.18	1.58	10.53	22-01-2031
	4	.422 (10.72)	WM1577-ND	.23	2.07	13.78	22-01-2041
	5	.522 (13.26)	WM1578-ND	.30	2.61	17.40	22-01-2051
	6	.622 (15.8)	WM1579-ND	.39	3.47	23.13	22-01-2061
	7	.722 (18.34)	WM1580-ND	.41	3.65	24.30	22-01-2071
	8	.822 (20.88)	WM1581-ND	.49	4.36	29.08	22-01-2081
	9	.922 (23.42)	WM1582-ND	.53	4.68	31.20	22-01-2091
	10	1.022 (25.96)	WM1583-ND	.59	5.23	34.85	22-01-2101
	11	1.122 (28.5)	WM1584-ND	.65	5.71	38.08	22-01-2111
	12	1.222 (31.04)	WM1585-ND	.71	6.26	41.75	22-01-2121
With Locking Ramp							
6	2	.220 (5.59)	WM2011-ND	.13	1.16	7.70	22-01-2027
	3	.320 (8.13)	WM2012-ND	.20	1.77	11.80	22-01-2037
	4	.420 (10.67)	WM2013-ND	.26	2.31	15.43	22-01-2047
	5	.520 (13.21)	WM2014-ND	.33	2.93	19.50	22-01-2057
	6	.620 (15.75)	WM2015-ND	.39	3.47	23.13	22-01-2067
	7	.720 (18.29)	WM2016-ND	.46	4.08	27.23	22-01-2077
	8	.820 (20.83)	WM2017-ND	.53	4.70	31.30	22-01-2087
	9	.920 (23.37)	WM2018-ND	.59	5.24	34.93	22-01-2097
	10	1.02 (25.91)	WM2019-ND	.66	5.85	39.00	22-01-2107
	11	1.12 (28.45)	WM2020-ND	.73	6.40	42.65	22-01-2117
	12	1.22 (30.99)	WM2021-ND	.79	7.01	46.73	22-01-2127

‡ Cut Tape † Tape and Reel

(Continued)

molex® .100" (2.54mm) Center Headers .025" (.64mm) Square Pins *(Cont.)*

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Locking Ramp or Polarizing Ribs, Stackable							
6	2	.218 (5.54)	WM2613-ND	.41	3.60	24.03	22-01-2025
	3	.318 (8.08)	WM2626-ND	.47	4.17	27.80	22-01-2035
	4	.418 (10.62)	WM2614-ND	.49	4.36	29.08	22-01-2045
	5	.518 (13.16)	WM2615-ND	.53	4.68	31.18	22-01-2055
	6	.618 (15.70)	WM2616-ND	.59	5.25	34.98	22-01-2065
	7	.718 (18.24)	WM2617-ND	.65	5.75	38.35	22-01-2075
	8	.818 (20.78)	WM2618-ND	.72	6.32	42.15	22-01-2085
	9	.918 (23.32)	WM2619-ND	.76	6.70	44.65	22-01-2095
	10	1.018 (25.86)	WM2620-ND	.82	7.27	48.45	22-01-2105
6	11	1.118 (28.40)	WM2621-ND	.87	7.71	51.40	22-01-2115
	12	1.218 (30.94)	WM2622-ND	.95	8.41	56.05	22-01-2125
Polarizing Key for .100" Housings			WM2400-ND	1.06/10			15-04-9209
Crimp Contact for Stackable Housing							
22 ~ 30AWG, Selective Gold			WM2624-ND	—	2.97	23.79	08-55-0111
22 ~ 30AWG, Tin			WM2625CT-ND‡	—	1.78	7.88	08-50-0031
22 ~ 30AWG, Tin			WM2625TR-ND†	250.64/7,000			08-50-0031
22 ~ 30AWG, Tin			WM2623-ND	—	1.45	11.61	08-50-0032
Hand Crimp Tool			WM17552-ND✔	100.80/1			64016-0201

‡ Cut Tape † Tape and Reel ✔ ***NEW!***

Kits

WM8364-ND	(76650-0089) **KK .100™ Connector Kit**; (.100 Pitch Receptacle and Terminals, 2 Circuit)	**$2.67**
WM8363-ND	(76650-0090) **KK .100 Connector Kit**; (.100 Pitch Receptacle and Terminals, 4 Circuit)	**$2.83**
WM8367-ND	(76650-0091) **KK .100 Connector Kit**; (.100 Pitch Receptacle and Terminals, 6 Circuit)	**$3.31**
WM8373-ND	(76650-0092) **KK .100 Connector Kit**; (.100 Pitch Receptacle and Terminals, 8 Circuit)	**$3.16**
WM8375-ND	(76650-0093) **KK .100 Connector Kit**; (.100 Pitch Receptacle and Terminals, 10 Circuit)	**$3.49**
WM9803-ND	(76650-0007) **KK .100 Connector Kit**; (Vertical and Right Angle Header and Receptacle, with Extraction and Universal Crimp Tool)	**$25.20**

Crimp Terminals For .100" (2.54mm) Center Housings

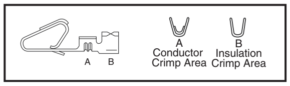

Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	100	500	Tape and Reel† Qty.	Pricing	Molex Part No.
22-30	.062 Max.	Selective Gold	WM2312-ND	3.24	18.60	74.40	—	—	08-55-0102
	.062 Max.	Selective Gold	WM2312CT-ND‡	—	10.69	44.53	10,000	74.00/M	08-55-0101
	.062 Max.	Selective Gold	WM2140CT-ND‡	—	13.14	54.75	10,000	66.00/M	08-65-0815
22-30	.062 Max.	Gold	WM1129-ND	8.66	69.27	288.63	—	—	08-56-0110
	.062 Max.	Gold	WM1129CT-ND‡	—	39.86	166.06	10,000	276.00/M	08-56-0109
	.062 Max.	Gold	WM2757-ND	8.97	71.76	299.00	—	—	08-65-0814
	.062 Max.	Gold	WM2757CT-ND‡	—	46.17	192.39	10,000	320.00/M	08-65-0813
22-30	.062 Max.	Tin	WM1114-ND	2.41	10.66	41.28	—	—	08-50-0114
	.062 Max.	Tin	WM1114CT-ND‡	—	8.65	25.27	10,000	19.29/M	08-50-0113
	.062 Max.	Tin	WM2756-ND	1.20	9.63	40.13	—	—	08-65-0805
	.062 Max.	Tin	WM2756CT-ND‡	—	4.88	20.31	10,000	34.00/M	08-65-0804
	.062 Max.	Tin	WM2758-ND	1.39	11.10	46.25	—	—	08-52-0123
	.062 Max.	Tin	WM2759CT-ND‡	—	5.58	23.25	10,000	37.00/M	08-52-0101
Universal Crimp Tool			WM9999-ND	33.75/1			—	—	63811-1000
Hand Crimp Tool			WM9019-ND	269.33/1			—	—	63811-8200
Hand Crimp Tool			WM17552-ND✔	100.80/1			—	—	64016-0201
Extraction Tool			WM9927-ND	8.28/1			—	—	11-03-0022
Manual Wire Stripper			WM9969-ND	63.00/1			—	—	63817-0000

‡ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND. ✔ ***NEW!***

.100" (2.54mm) High Pressure Terminal Housings

• Standard with locking ramp • 94V-0 material • Mates with .025" (0.64mm) Pins • Up to 425 grams normal force • Multiple contacting points • Patented double cantilever with box shroud • Accepts #22 ~ 30AWG wire, .062" insulation diameter

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	.120 (3.05)	WM2600-ND	.21	1.72	12.28	10-11-2013
2	.220 (5.59)	WM2601-ND	.14	1.28	8.50	10-11-2023
3	.320 (8.13)	WM2602-ND	.41	2.37	10.48	10-11-2033
4	.420 (10.67)	WM2603-ND	.30	2.61	17.43	10-11-2043
5	.520 (13.21)	WM2604-ND	.37	3.26	21.70	10-11-2053
6	.620 (15.75)	WM2605-ND	.44	3.89	25.95	10-11-2063
7	.720 (18.29)	WM2606-ND	.51	4.53	30.18	10-11-2073
8	.820 (20.83)	WM2607-ND	.59	5.17	34.45	10-11-2083
9	.920 (23.37)	WM2608-ND	.66	5.81	38.70	10-11-2093
10	1.020 (25.91)	WM2609-ND	.74	6.51	43.38	10-11-2103
11	1.120 (28.45)	WM2610-ND	.81	7.14	47.63	10-11-2113
12	1.220 (30.99)	WM2611-ND	.88	7.78	51.88	10-11-2123
13	1.322 (33.58)	WM2685-ND	.85	7.52	50.15	10-11-2133
14	1.422 (36.12)	WM2686-ND	.92	8.09	53.93	10-11-2143
15	1.522 (38.66)	WM2687-ND	.98	8.66	57.75	10-11-2153
Crimp Terminal, 24 ~ 30, Tin/Copper Plating		WM2612-ND	—	2.59	12.95	08-50-0005
Crimp Terminal, 22 ~ 30, Gold Plating		WM23941-ND	—	5.25	41.97	08-55-0129
Terminal, 24 ~ 30, Tin Plating		WM2755CT-ND‡	—	1.80	7.98	08-50-0004
		WM2755TR-ND†	180.00/5,000			08-50-0004
Terminal, 22 ~ 30, Gold Plating		WM23941CT-ND‡	—	—	33.69	08-55-0124
		WM23941TR-ND†	875.00/5,000			08-55-0124
Hand Crimp Tool		WM17552-ND✔	100.80/1			64016-0201

‡ Cut Tape † Tape and Reel ✔ ***NEW!***

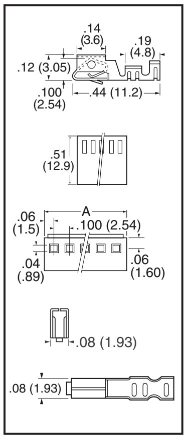

.156" Center Headers .045" Square Pins

Dimensions in Inches

Specifications:
- **Voltage Rating:** 250VAC Maximum
- **Current Rating:** Up to 7 Amps (with 18AWG wire)
- **Resistance:** 20mΩ maximum
- **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds
- **Operating Temperature:** 0°C ~ 75°C
- **Storage Temperature:** -40°C ~ 105°C
- **Material:** 94V-0

Fig. 1 - Straight Header

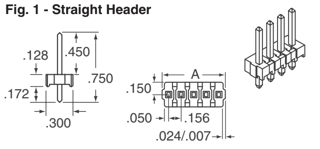

Fig. 2 - Right Angle Header

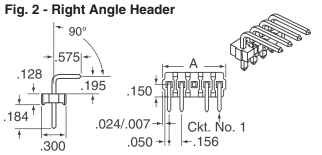

Fig. 3 - Straight-Friction Lock Header for use with Locking Ramp only

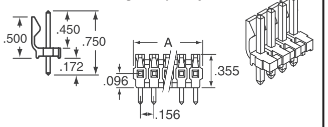

Fig. 4 - Right Angle-Friction Lock Header for use with Locking Ramp only

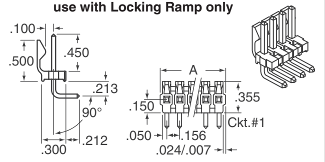

Fig. 5 - Straight Friction Lock Header for use with Locking Ramp & Polarizing Ribs

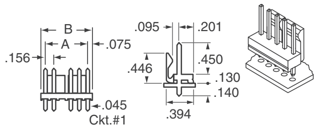

Fig. 6 - Right Angle Friction Lock Header for use with Locking Ramp & Polarizing Ribs

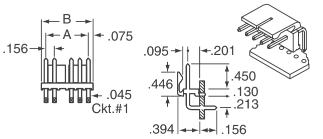

Fig. 7 - Center Crimp Terminal Housing (contacts sold separately)

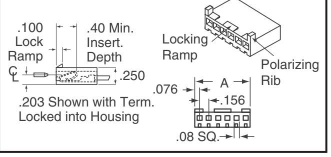

Fig.	Circuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Straight Header - Tin								
1	2	.267	—	WM4400-ND◆	.89	7.39	55.40	26-48-1021
	3	.423	—	WM4401-ND◆	.89	7.39	55.40	26-48-1031
	4	.579	—	WM4402-ND◆	.89	7.39	55.40	26-48-1041
	5	.735	—	WM4403-ND◆	.89	7.39	55.40	26-48-1051
	6	.891	—	WM4404-ND◆	.89	7.39	55.40	26-48-1061
	7	1.047	—	WM4405-ND	.89	7.39	55.40	26-48-1071
	8	1.203	—	WM4406-ND◆	.89	7.39	55.40	26-48-1081
	9	1.359	—	WM4407-ND◆	.89	7.39	55.40	26-48-1091
	10	1.515	—	WM4408-ND◆	.89	7.39	55.40	26-48-1101
	11	1.671	—	WM4409-ND◆	.89	7.39	55.40	26-48-1111
	12	1.827	—	WM4410-ND◆	.89	7.39	55.40	26-48-1121
Straight Header - Gold — RoHS Compliant								
1	2	.267	—	WM5002-ND	.95	8.36	55.75	26-48-2021
	3	.423	—	WM5003-ND	1.32	11.61	77.38	26-48-2031
	4	.579	—	WM5004-ND	1.68	14.85	99.01	26-48-2041
	5	.735	—	WM5005-ND	2.05	18.09	120.63	26-48-2051
	6	.891	—	WM5006-ND	2.42	21.34	142.26	26-48-2061
	7	1.047	—	WM5007-ND	2.79	24.58	163.89	26-48-2071
	8	1.203	—	WM5008-ND	3.15	27.83	185.51	26-48-2081
	9	1.359	—	WM5009-ND	3.52	31.07	207.14	26-48-2091
	10	1.515	—	WM5010-ND	3.89	34.31	228.76	26-48-2101
	11	1.671	—	WM5011-ND	4.26	37.56	250.39	26-48-2111
	12	1.827	—	WM5012-ND	4.62	40.80	272.02	26-48-2121

Fig.	Circuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Right Angle Header - Tin — RoHS Compliant								
2	2	.267	—	WM4500-ND	.36	3.18	21.21	26-48-1022
	3	.423	—	WM4501-ND	.43	3.83	25.56	26-48-1032
	4	.579	—	WM4502-ND	.51	4.49	29.91	26-48-1042
	5	.735	—	WM4503-ND	.58	5.14	34.26	26-48-1052
	6	.891	—	WM4504-ND	.66	5.79	38.61	26-48-1062
	7	1.047	—	WM4505-ND	.73	6.44	42.96	26-48-1072
	8	1.203	—	WM4506-ND	.80	7.10	47.32	26-48-1082
	9	1.359	—	WM4507-ND	.88	7.75	51.67	26-48-1092
	10	1.515	—	WM4508-ND	.95	8.40	56.02	26-48-1102
	11	1.671	—	WM4509-ND	1.03	9.06	60.37	26-48-1112
	12	1.827	—	WM4510-ND	1.10	9.71	64.72	26-48-1122
Right Angle Header - Gold								
2	2	.267	—	WM5102-ND◆	1.10	9.75	64.98	26-48-2022
	3	.423	—	WM5103-ND	1.55	13.68	91.22	26-48-2032
	4	.579	—	WM5104-ND◆	2.00	17.62	117.46	26-48-2042
	5	.735	—	WM5105-ND◆	2.44	21.55	143.70	26-48-2052
	6	.891	—	WM5106-ND◆	2.89	25.49	169.94	26-48-2062
	7	1.047	—	WM5107-ND◆	3.33	29.43	196.18	26-48-2072
	8	1.203	—	WM5108-ND◆	3.78	33.36	222.42	26-48-2082
	9	1.359	—	WM5109-ND◆	4.23	37.30	248.65	26-48-2092
	10	1.515	—	WM5110-ND◆	4.67	41.23	274.89	26-48-2102
	11	1.671	—	WM5111-ND◆	5.12	45.17	301.13	26-48-2112
	12	1.827	—	WM5112-ND◆	5.57	49.11	327.37	26-48-2122

Fig.	Circuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Straight Header with Friction Lock - Tin — RoHS Compliant								
3	2	.310	—	WM4600-ND	1.08	8.90	66.80	26-48-1025
	3	.466	—	WM4601-ND	1.08	8.90	66.80	26-48-1035
	4	.622	—	WM4602-ND	1.08	8.90	66.80	26-48-1045
	5	.778	—	WM4603-ND	1.08	8.90	66.80	26-48-1055
	6	.934	—	WM4604-ND	1.08	8.90	66.80	26-48-1065
	7	1.090	—	WM4605-ND	1.08	8.90	66.80	26-48-1075
	8	1.246	—	WM4606-ND	1.08	8.90	66.80	26-48-1085
	9	1.402	—	WM4607-ND	1.08	8.90	66.80	26-48-1095
	10	1.558	—	WM4608-ND	1.08	8.90	66.80	26-48-1105
	11	1.714	—	WM4609-ND	1.08	8.90	66.80	26-48-1115
	12	1.870	—	WM4610-ND	1.08	8.90	66.80	26-48-1125
Straight Header with Friction Lock - Gold — RoHS Compliant								
3	2	.310	—	WM5200-ND	.97	8.59	57.25	26-48-2025
	3	.466	—	WM5201-ND	1.35	11.94	79.62	26-48-2035
	4	.622	—	WM5202-ND	1.73	15.30	101.99	26-48-2045
	5	.778	—	WM5203-ND	2.11	18.65	124.36	26-48-2055
	6	.934	—	WM5204-ND	2.49	22.01	146.74	26-48-2065
	7	1.090	—	WM5205-ND	2.87	25.37	169.11	26-48-2075
	8	1.246	—	WM5206-ND	3.26	28.72	191.48	26-48-2085
	9	1.402	—	WM5207-ND	3.64	32.08	213.85	26-48-2095
	10	1.558	—	WM5208-ND	4.02	35.43	236.23	26-48-2105
	11	1.714	—	WM5209-ND	4.40	38.79	258.60	26-48-2115
	12	1.870	—	WM5210-ND	4.78	42.15	280.97	26-48-2125

◆ ***RoHS Compliant***

(Continued)

molex .156" Center Headers .045" Square Pins *(Cont.)*

Right Angle Header with Friction Lock – Tin — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
4	2	.310	—	WM4700-ND	.41	3.62	24.16	26-48-1026
	3	.466	—	WM4701-ND	.51	4.50	29.98	26-48-1036
	4	.622	—	WM4702-ND	.61	5.37	35.81	26-48-1046
	5	.778	—	WM4703-ND	.71	6.25	41.64	26-48-1056
	6	.934	—	WM4704-ND	.81	7.12	47.46	26-48-1066
	7	1.090	—	WM4705-ND	.91	7.99	53.29	26-48-1076
	8	1.246	—	WM4706-ND	1.01	8.87	59.12	26-48-1086
	9	1.402	—	WM4707-ND	1.10	9.74	64.95	26-48-1096
	10	1.558	—	WM4708-ND	1.20	10.62	70.77	26-48-1106
	11	1.714	—	WM4709-ND	1.30	11.49	76.60	26-48-1116
	12	1.870	—	WM4710-ND	1.40	12.36	82.43	26-48-1126

Right Angle Header with Friction Lock — Gold

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
4	2	.310	—	WM5212-ND◆	1.25	11.01	73.42	26-48-2026
	3	.466	—	WM5213-ND◆	1.77	15.58	103.88	26-48-2036
	4	.622	—	WM5214-ND◆	2.28	20.15	134.34	26-48-2046
	5	.778	—	WM5215-ND◆	2.80	24.72	164.80	26-48-2056
	6	.934	—	WM5216-ND◆	3.32	29.29	195.26	26-48-2066
	7	1.090	—	WM5217-ND◆	3.84	33.86	225.72	26-48-2076
	8	1.246	—	WM5218-ND◆	4.36	38.43	256.18	26-48-2086
	9	1.402	—	WM5219-ND◆	4.87	43.00	286.64	26-48-2096
	10	1.558	—	WM5220-ND◆	5.39	47.57	317.10	26-48-2106
	11	1.714	—	WM5221-ND	5.91	52.13	347.56	26-48-2116
	12	1.870	—	WM5222-ND◆	6.43	56.70	378.02	26-48-2126

Straight Header with Friction Lock for Polarizing Ribs – Tin — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
5	2	.156	.306	WM4620-ND	.44	2.57	11.38	26-60-4020
	3	.312	.462	WM4621-ND	.55	3.33	16.67	26-60-4030
	4	.468	.618	WM4622-ND	.65	4.04	23.23	26-60-4040
	5	.624	.774	WM4623-ND	.81	5.05	29.05	26-60-4050
	6	.780	.930	WM4624-ND	.70	4.88	32.76	26-60-4060
	7	.936	1.086	WM4625-ND	.94	6.55	43.95	26-60-4070
	8	1.092	1.242	WM4626-ND	1.07	7.48	50.22	26-60-4080
	9	1.248	1.398	WM4627-ND	1.01	8.92	59.45	26-60-4090
	10	1.404	1.554	WM4628-ND	1.01	7.88	60.10	26-60-4100
	11	1.560	1.710	WM4629-ND	1.23	10.89	72.60	26-60-4110
	12	1.716	1.866	WM4630-ND	1.22	9.46	72.14	26-60-4120

Straight Header with Friction Lock for Polarizing Ribs – Gold — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
5	2	.156	.306	WM5224-ND	.85	5.97	40.07	26-61-4020
	3	.312	.462	WM5225-ND	1.06	8.26	62.98	26-61-4030
	4	.468	.618	WM5226-ND	1.58	12.24	93.35	26-61-4040
	5	.624	.774	WM5227-ND	2.49	22.01	146.70	26-61-4050
	6	.780	.930	WM5228-ND	2.01	16.71	123.78	26-61-4060
	7	.936	1.086	WM5229-ND	3.50	30.85	205.65	26-61-4070
	8	1.092	1.242	WM5230-ND	3.08	25.61	189.68	26-61-4080
	9	1.248	1.398	WM5231-ND	4.48	39.55	263.65	26-61-4090
	10	1.404	1.554	WM5232-ND	4.99	44.00	293.35	26-61-4100
	11	1.560	1.710	WM5233-ND	5.48	48.39	322.58	26-61-4110
	12	1.716	1.866	WM5234-ND	5.99	52.85	352.35	26-61-4120

Right Angle Header with Friction Lock for Polarizing Ribs – Tin — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
5	2	.156	.306	WM4651-ND	.21	1.86	12.38	26-64-4020
	3	.312	.462	WM4652-ND	.32	2.78	18.55	26-64-4030
	4	.468	.618	WM4653-ND	.42	3.71	24.73	26-64-4040
	5	.624	.774	WM4654-ND	.52	4.63	30.88	26-64-4050
	6	.780	.930	WM4655-ND	.63	5.56	37.08	26-64-4060
	7	.936	1.086	WM4656-ND	.74	6.49	43.25	26-64-4070
	8	1.092	1.242	WM4657-ND	.84	7.41	49.43	26-64-4080
	9	1.248	1.398	WM4658-ND	.95	8.34	55.63	26-64-4090
	10	1.404	1.554	WM4659-ND	1.05	9.27	61.80	26-64-4100
	11	1.560	1.710	WM4660-ND	1.16	10.20	67.98	26-64-4110
	12	1.716	1.866	WM4661-ND	1.26	11.13	74.18	26-64-4120

Right Angle Header with Friction Lock for Polarizing Ribs — Gold

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
6	2	.156	.306	WM4640-ND◆	.39	2.38	11.91	26-60-5020
	3	.312	.462	WM4641-ND◆	.36	3.18	21.23	26-60-5030
	4	.468	.618	WM4642-ND◆	.48	4.25	28.33	26-60-5040
	5	.624	.774	WM4643-ND◆	.60	5.30	35.35	26-60-5050
	6	.780	.930	WM4644-ND◆	.81	7.14	47.63	26-60-5060
	7	.936	1.086	WM4645-ND◆	.84	7.43	49.53	26-60-5070
	8	1.092	1.242	WM4646-ND◆	.96	8.49	56.60	26-60-5080
	9	1.248	1.398	WM4647-ND◆	1.08	9.55	63.68	26-60-5090
	10	1.404	1.554	WM4648-ND◆	1.20	10.61	70.75	26-60-5100
	11	1.560	1.710	WM4649-ND	1.32	11.67	77.83	26-60-5110
	12	1.716	1.866	WM4650-ND◆	1.44	12.74	84.90	26-60-5120

Right Angle Header with Friction Lock for Polarizing Ribs – Gold — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
6	2	.156	.306	WM5235-ND	1.19	10.47	69.80	26-61-5020
	3	.312	.462	WM5236-ND	1.78	15.71	104.70	26-61-5030
	4	.468	.618	WM5237-ND	2.31	20.37	135.83	26-61-5040
	5	.624	.774	WM5238-ND	2.88	25.40	169.33	26-61-5050
	6	.780	.930	WM5239-ND	3.46	30.56	203.73	26-61-5060
	7	.936	1.086	WM5240-ND	4.03	35.58	237.23	26-61-5070
	8	1.092	1.242	WM5241-ND	4.60	40.61	270.73	26-61-5080
	9	1.248	1.398	WM5242-ND	5.19	45.77	305.15	26-61-5090
	10	1.404	1.554	WM5243-ND	5.76	50.80	338.65	26-61-5100
	11	1.560	1.710	WM5244-ND	6.33	55.89	372.63	26-61-5110
	12	1.716	1.866	WM5245-ND	6.91	60.99	406.58	26-61-5120

Terminal Housing (Contacts Sold Separately Below) with Locking Ramp – 94V-2 Nylon — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
7	2	.310	—	WM2100-ND	.15	1.36	9.08	09-50-3021
	3	.460	—	WM2101-ND	.23	2.04	13.60	09-50-3031
	4	.620	—	WM2102-ND	.31	2.72	18.15	09-50-3041
	5	.780	—	WM2103-ND	.39	3.40	22.65	09-50-3051
	6	.930	—	WM2104-ND	.46	4.08	27.23	09-50-3061
	7	1.090	—	WM2105-ND	.54	4.77	31.78	09-50-3071
	8	1.240	—	WM2106-ND	.62	5.44	36.28	09-50-3081
	9	1.400	—	WM2107-ND	.69	6.12	40.80	09-50-3091
	10	1.560	—	WM2108-ND	.77	6.81	45.38	09-50-3101
	11	1.710	—	WM2109-ND	.85	7.48	49.88	09-50-3111
	12	1.870	—	WM2110-ND	1.00	7.79	59.45	09-50-3121

Without Locking Ramp or Polarizing Ribs – 94V-2 — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
7	2	.308	—	WM1564-ND	.14	1.21	8.08	09-50-7021
	3	.464	—	WM1565-ND	.21	1.83	12.18	09-50-7031
	4	.620	—	WM1566-ND	.28	2.43	16.23	09-50-7041
	5	.776	—	WM1567-ND	.34	3.04	20.25	09-50-7051
	6	.932	—	WM1568-ND	.41	3.65	24.30	09-50-7061
	7	1.088	—	WM1569-ND	.48	4.26	28.38	09-50-7071
	8	1.244	—	WM1570-ND	.55	4.86	32.40	09-50-7081
	9	1.400	—	WM1571-ND	.62	5.47	36.48	09-50-7091
	10	1.556	—	WM1572-ND	.69	6.08	40.53	09-50-7101
	11	1.712	—	WM1573-ND	.76	6.68	44.55	09-50-7111
	12	1.868	—	WM1574-ND	.83	7.29	48.63	09-50-7121
Polarizing Key for .156" Housings				WM2402-ND	.18	1.63	—	15-04-0219
Polarizing Peg for .156" Housings				WM2403-ND	.18	1.63	—	15-04-0220

With Locking Ramp and Polarizing Ribs – Polyester — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
7	2	.340	—	WM2111-ND	.18	1.57	10.45	09-50-8023
	3	.500	—	WM2112-ND	.27	2.38	15.88	09-50-8033
	4	.650	—	WM2113-ND	.35	3.13	20.88	09-50-8043
	5	.810	—	WM2114-ND	.45	3.95	26.33	09-50-8053
7	6	.970	—	WM2115-ND	.53	4.70	31.30	09-50-8063
	7	1.120	—	WM2116-ND	.62	5.51	36.75	09-50-8073
	8	1.280	—	WM2117-ND	.70	6.19	41.25	09-50-8083
	9	1.430	—	WM2118-ND	.79	7.01	46.73	09-50-8093
	10	1.600	—	WM2119-ND	.88	7.76	51.70	09-50-8103
	11	1.750	—	WM2120-ND	.97	8.57	57.15	09-50-8113
	12	1.900	—	WM2121-ND	1.06	9.39	62.58	09-05-8123

With Locking Ramp – Polyester — RoHS Compliant

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
7	2	.340	—	WM2122-ND	.16	1.43	9.55	09-50-8021
	3	.500	—	WM2123-ND	.25	2.24	14.95	09-50-8031
	4	.650	—	WM2124-ND	.33	2.93	19.50	09-50-8041
	5	.810	—	WM2125-ND	.42	3.67	24.48	09-50-8051
	6	.970	—	WM2126-ND	.49	4.36	29.05	09-50-8061
	7	1.120	—	WM2127-ND	.59	5.17	34.45	09-50-8071
	8	1.280	—	WM2128-ND	.66	5.85	39.00	09-50-8081
	9	1.430	—	WM2129-ND	.75	6.60	44.00	09-50-8091
	10	1.600	—	WM2130-ND	.82	7.28	48.53	09-50-8101
	11	1.750	—	WM2131-ND	.91	8.03	53.50	09-50-8111
	12	1.900	—	WM2132-ND	.99	8.77	58.48	09-50-8121
Polarizing Key for .156" Housings				WM2404-ND	.16	1.43	—	15-04-0297

◆ ***RoHS Compliant***

Kits

WM8511-ND◆	(76650-0196)	**Mar KK™ Power Connector Kit**; (KK Breakaway Vertical and Right Angle Header and Receptacle with Universal Crimp Tool)	**$22.41**
WM8380-ND◆	(76650-0094)	**KK .156™ Connector Kit**; (.156 Pitch Receptacle and Terminals, 2 Circuit)	**$2.67**
WM8383-ND◆	(76650-0095)	**KK .156 Connector Kit**; (.156 Pitch Receptacle and Terminals, 3 Circuit)	**$3.13**
WM8382-ND◆	(76650-0096)	**KK .156 Connector Kit**; (.156 Pitch Receptacle and Terminals, 4 Circuit)	**$2.56**
WM8390-ND◆	(76650-0097)	**KK .156 Connector Kit**; (.156 Pitch Receptacle and Terminals, 5 Circuit)	**$2.92**
WM8381-ND◆	(76650-0098)	**KK .156 Connector Kit**; (.156 Pitch Receptacle and Terminals, 6 Circuit)	**$3.41**
WM8438-ND◆	(76650-0099)	**KK .156 Connector Kit**; (.156 Pitch Receptacle and Terminals, 10 Circuit)	**$3.74**
WM8388-ND◆	(76650-0100)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 2 Circuit)	**$2.70**
WM8391-ND◆	(76650-0101)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 3 Circuit)	**$2.87**
WM8392-ND◆	(76650-0102)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 4 Circuit)	**$2.56**
WM8396-ND◆	(76650-0103)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 5 Circuit)	**$2.87**
WM8387-ND◆	(76650-0104)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 6 Circuit)	**$3.41**
WM8385-ND◆	(76650-0105)	**KK .156 Connector Kit**; (.156 Pitch Receptacle without Ramp and Terminals, 10 Circuit)	**$3.67**
WM9804-ND◆	(76650-0008)	**KK .156 Connector Kit**; (Vertical and Right Angle Header and Receptacle, with Extraction and Universal Crimp Tool)	**$23.82**

◆ ***RoHS Compliant***

Crimp Terminals for .156" Center Housings

Plating: 100µ" tin plating or 20µ" of Selective Gold

Fig. 1

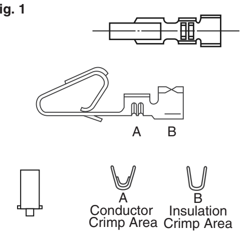

Fig. 2

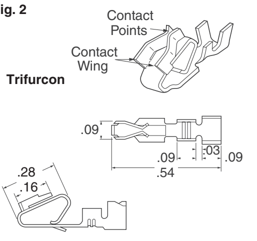

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Tools			
Hand Tool (Waldom)	WM9903-ND	15.31	W-HT-1919
Universal Crimp Tool (Molex)	WM9999-ND	33.75	63811-1000
Hand Crimp Tool (Molex)	WM17552-ND ***NEW!***	100.80	64016-0201
Extraction Tool (Molex)	WM9928-ND	15.30	11-03-0016
Production Tool (Molex) 18 ~ 24AWG	WM9010-ND	203.49	63811-7500
Production Tool (Molex) 22 ~ 26AWG	WM9011-ND	203.49	63811-7400
Manual Wire Stripper (Molex)	WM9969-ND	63.00	63817-0000
Extractor Tool (Molex)	WM5117-ND ***NEW!***	10.80	0011030003
Extraction Tool (Molex)	WM5118-ND ***NEW!***	15.30	0011030025

Material	Wire Size	Insulation Diameter (Inch)	Finish	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Tape and Reel Pricing◊ 7,000	Molex Part No.
Fig. 1									
Brass	18~24	.110	Tin	WM2300-ND§	1.93	8.53	33.00	—	08-50-0106
	18~24	.110	Tin	WM2300CT-ND§‡	—	4.05	16.88	27.00/M	08-50-0105
	18~24	.110	Gold	WM2305-ND§	7.70	61.56	256.50	—	08-56-0106
	18~24	.110	Gold	WM2305CT-ND§‡	—	49.52	206.34	364.00/M	08-56-0105
	22~26	.065	Tin	WM2301-ND†	1.93	8.53	33.00	—	08-50-0108
	22~26	.065	Tin	WM2301TR-ND†	—	—	—	27.00/M	08-50-0107
	22~26	.065	Gold	WM2306-ND†	7.70	61.56	256.50	—	08-56-0108
	22~26	.065	Gold	WM2306CT-ND†‡	—	49.52	206.34	364.00/M	08-56-0107
Bronze	18~24	.110	Tin	WM2302-ND§	.82	6.57	27.38	—	08-52-0072
	18~24	.110	Tin	WM2302CT-ND§‡	—	3.90	16.26	27.00/M	08-52-0071
	18~24	.110	Gold	WM2135-ND§	2.40	19.20	80.00	—	08-65-0115
	22~26	.065	Tin	WM2303-ND†	.82	6.57	27.38	—	08-50-0134
	22~26	.065	Tin	WM2303TR-ND†	—	—	—	27.00/M	08-50-0133
	22~26	.065	Gold	WM2307-ND†	7.70	61.56	256.50	—	08-58-0126
Phosphor/ Bronze	18~24	.110	Gold	WM2304-ND§	7.70	61.56	256.50	—	08-58-0122
	18~24	.110	Gold	WM2304CT-ND§‡	—	52.49	218.71	364.00/M	08-58-0121
Fig. 2									
Brass	18~20	.110	Tin	WM17403-ND§	.90	7.17	29.88	—	08-50-0189
	18~20	.110	Tin	WM17403CT-ND§‡	—	5.34	22.26	37.00/M	08-50-0187
Phosphor/ Bronze	18~20	.110	Gold	WM23942-ND§	6.74	53.88	224.50	—	08-58-0189
	18~20	.110	Gold	WM23942TR-ND§	—	—	—	317.00/M	08-58-0187
	18~20	.110	Gold	WM2778-ND§	5.63	45.00	187.50	—	08-58-0111
	18~20	.110	Tin	WM2760CT-ND§‡	.70	5.58	23.25	37.00/M	08-52-0112
	18~20	.110	Tin	WM2313-ND§	3.58	9.24	35.76	—	08-52-0113
	22~26	.065	Tin	WM2314-ND†	.90	7.17	29.88	—	08-52-0125
	22~26	.065	Tin	WM2314TR-ND†	—	—	—	37.00/M	08-52-0124
	22~26	.065	Gold	WM2136-ND†	14.73	117.81	490.88	—	08-56-0124
	22~26	.065	Gold	WM2137TR-ND†	—	—	—	314.00/M	08-65-0121
	22~26	.065	Gold	WM2138-ND†	6.07	48.57	202.38	—	08-65-0122

‡ Cut Tape ◊ For Tape and Reel part number, change CT-ND to TR-ND.
§ For use with WM9010-ND crimp tool † For use with WM9011-ND crimp tool

molex® P.C. Board Connectors

.100 (2.54mm) Connectors: 94V-O Material, Mates with .025" (.64mm) square pins, end-to-end stackable
.156 (3.96mm) Connectors: 94V-2 Nylon Housing. Mates with .045" (1.14mm) pins

Fig. 1 – Side Entry

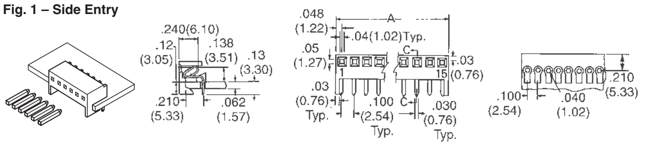

Fig. 2 – Bottom Entry

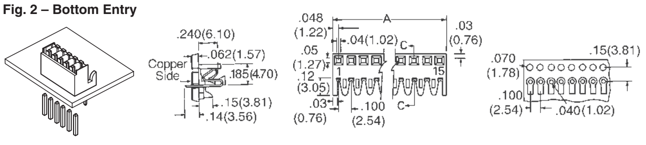

Fig. 3 – Top Entry

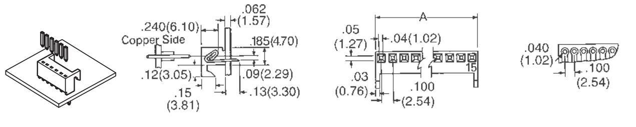

Fig. 4 – Side Entry

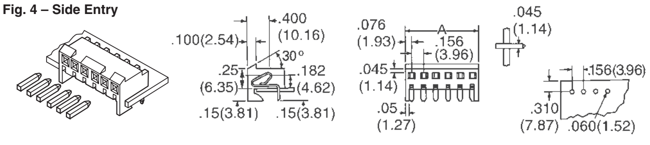

Fig. 5 – Bottom Entry

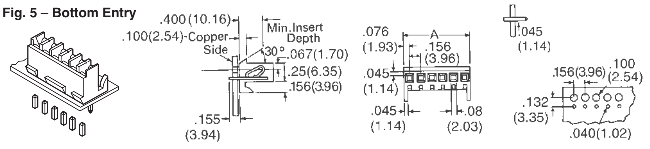

Fig. 6 – Top Entry

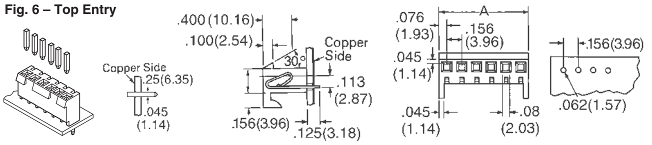

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
.100 (2.54mm) P.C. Board Connectors							
1	2	.196 (4.98)	WM3000-ND◆	.31	2.76	18.40	22-15-2026
	3	.296 (7.52)	WM3001-ND◆	.42	3.67	24.45	22-15-2036
	4	.396 (10.06)	WM3002-ND◆	.63	5.52	36.78	22-15-2046
	5	.496 (12.60)	WM3003-ND◆	.70	6.14	40.90	22-15-2056
	6	.596 (15.14)	WM3004-ND◆	.84	7.40	49.30	22-15-2066
	7	.696 (17.68)	WM3005-ND◆	.97	8.60	57.33	22-15-2076
	8	.796 (20.22)	WM3006-ND◆	1.12	9.86	65.73	22-15-2086
	9	.896 (22.76)	WM3007-ND◆	1.25	11.06	73.75	22-15-2096
	10	.996 (25.30)	WM3008-ND◆	1.40	12.32	82.15	22-15-2106
	11	1.096 (27.84)	WM3009-ND◆	1.72	15.14	100.95	22-15-2116
	12	1.196 (30.38)	WM3010-ND◆	1.68	14.79	98.58	22-15-2126
2	2	.196 (4.98)	WM3100-ND◆	.33	2.90	19.35	22-14-2024
	3	.296 (7.52)	WM3101-ND◆	.44	3.85	25.68	22-14-2034
	4	.396 (10.06)	WM3102-ND◆	.66	5.81	38.70	22-14-2044
	5	.496 (12.60)	WM3103-ND◆	.82	7.22	48.10	22-14-2054
	6	.596 (15.14)	WM3104-ND◆	.99	8.70	58.03	22-14-2064
	7	.696 (17.68)	WM3105-ND◆	1.15	10.12	67.45	22-14-2074
	8	.796 (20.22)	WM3106-ND◆	1.17	10.37	69.10	22-14-2084
	9	.896 (22.76)	WM3107-ND◆	1.48	13.02	86.80	22-14-2094
	10	.996 (25.30)	WM3108-ND◆	1.47	12.96	86.40	22-14-2104
	11	1.096 (27.84)	WM3109-ND	1.61	14.22	94.80	22-14-2114
	12	1.196 (30.38)	WM3110-ND◆	1.76	15.55	103.68	22-14-2124
3	2	.196 (4.98)	WM3200-ND◆	.28	2.46	16.43	22-02-2025
	3	.296 (7.52)	WM3201-ND◆	.42	3.67	24.45	22-02-2035
	4	.396 (10.06)	WM3202-ND◆	.56	4.93	32.85	22-02-2045
	5	.496 (12.60)	WM3203-ND◆	.70	6.14	40.90	22-02-2055
	6	.596 (15.14)	WM3204-ND◆	.84	7.40	49.30	22-02-2065
	7	.696 (17.68)	WM3205-ND◆	1.19	8.30	55.70	22-02-2075
	8	.796 (20.22)	WM3206-ND◆	1.12	9.86	65.73	22-02-2085
	9	.896 (22.76)	WM3207-ND◆	1.25	11.06	73.75	22-02-2095
	10	.996 (25.30)	WM3208-ND◆	1.40	12.32	82.15	22-02-2105
	12	1.196 (30.38)	WM3210-ND◆	1.68	14.79	98.58	22-02-2125
.100 (2.54mm) P.C. Board Connectors - Gold — RoHS Compliant							
1	2	.196 (4.98)	WM3211-ND	.39	3.47	23.10	22-16-2020
	3	.296 (7.52)	WM3212-ND	.52	4.62	30.78	22-16-2030
	4	.396 (10.06)	WM3213-ND	.78	6.87	45.78	22-16-2040
	5	.496 (12.60)	WM3214-ND	.97	8.56	57.08	22-16-2050
	6	.596 (15.14)	WM3215-ND	1.05	9.23	61.50	22-16-2060
	7	.696 (17.68)	WM3216-ND	1.36	12.03	80.18	22-16-2070
	8	.796 (20.22)	WM3217-ND	1.39	12.26	81.75	22-16-2080
	9	.896 (22.76)	WM3218-ND	1.75	15.43	102.85	22-16-2090
	10	.996 (25.30)	WM3219-ND	1.95	17.19	114.63	22-16-2100
	11	1.096 (27.84)	WM3220-ND	2.14	18.89	125.93	22-16-2110
	12	1.196 (30.38)	WM3221-ND	2.08	18.39	122.63	22-16-2120
2	2	.196 (4.98)	WM3222-ND	.41	3.60	24.03	22-17-3022
	3	.296 (7.52)	WM3223-ND	.61	5.37	35.83	22-17-3032
	4	.396 (10.06)	WM3224-ND	.82	7.22	48.10	22-17-3042
	5	.496 (12.60)	WM3225-ND	1.02	8.99	59.90	22-17-3052
	6	.596 (15.14)	WM3226-ND	1.10	9.67	64.48	22-17-3062
	7	.696 (17.68)	WM3227-ND	1.28	11.25	75.03	22-17-3072
	8	.796 (20.22)	WM3228-ND	1.64	14.43	96.23	22-17-3082
	10	.996 (25.30)	WM3230-ND	2.04	18.04	120.28	22-17-3102
	12	1.196 (30.38)	WM3232-ND	2.45	21.65	144.33	22-17-3122
3	2	.196 (4.98)	WM3233-ND	.35	3.10	20.65	22-18-2021
	3	.296 (7.52)	WM3234-ND	.52	4.62	30.78	22-18-2031
	4	.396 (10.06)	WM3235-ND	.70	6.14	40.90	22-18-2041
	5	.496 (12.60)	WM3236-ND	.97	8.56	57.08	22-18-2051
	6	.596 (15.14)	WM3237-ND	1.05	9.23	61.50	22-18-2061
	8	.796 (20.22)	WM3239-ND	1.39	12.26	81.75	22-18-2081
	9	.896 (22.76)	WM3240-ND	1.56	13.78	91.88	22-18-2091
	10	.996 (25.30)	WM3241-ND	1.74	15.36	102.40	22-18-2101
	12	1.196 (30.38)	WM3243-ND	2.08	18.39	122.63	22-18-2121
.156 (3.96mm) P.C. Board Connectors — RoHS Compliant							
4	2	.308 (7.82)	WM13299-ND	.33	2.91	19.40	09-48-1024
	3	.46 (11.68)	WM13300-ND	.49	4.36	29.08	09-48-1034
	4	.62 (15.75)	WM13301-ND	.66	5.82	38.78	09-48-1044
	5	.78 (19.81)	WM13302-ND	.82	7.27	48.45	09-48-1054
	6	.93 (23.62)	WM13303-ND	.99	8.73	58.18	09-48-1064
	7	1.09 (27.69)	WM13304-ND	1.32	11.63	77.53	09-48-1074
	8	1.24 (31.50)	WM13305-ND	1.45	12.77	85.13	09-48-1084
	9	1.40 (35.56)	WM13306-ND	1.48	13.08	87.20	09-48-1094
	10	1.56 (39.62)	WM13307-ND	1.65	14.54	96.90	09-48-1104
	11	1.71 (43.43)	WM13308-ND	1.81	15.99	106.60	09-48-1114
	12	1.87 (47.50)	WM13309-ND	1.98	17.44	116.28	09-48-1124
5	2	.308 (7.82)	WM13399-ND	.40	3.54	23.60	09-48-4029
	3	.46 (11.68)	WM13400-ND	.52	4.55	30.35	09-48-4039
	4	.62 (15.75)	WM13401-ND	.70	6.14	40.90	09-48-4049
	5	.78 (19.81)	WM13402-ND	1.37	12.07	80.48	09-48-4059
	7	1.09 (27.69)	WM13404-ND	1.21	10.68	71.20	09-48-4079
	8	1.24 (31.50)	WM13405-ND	2.06	18.14	120.93	09-48-4089
	9	1.40 (35.56)	WM13406-ND	1.55	13.72	91.45	09-48-4099
	10	1.56 (39.62)	WM13407-ND	1.73	15.30	101.98	09-48-4109
	11	1.71 (43.43)	WM13408-ND	1.91	16.81	112.08	09-48-4119
	12	1.87 (47.50)	WM13409-ND	2.08	18.33	122.20	09-48-4129
6	2	.308 (7.82)	WM13499-ND	.33	2.91	19.40	09-48-4028
	3	.46 (11.68)	WM13500-ND	.49	4.36	29.08	09-48-4038
	4	.62 (15.75)	WM13501-ND	.66	5.82	38.78	09-48-4048
	5	.78 (19.81)	WM13502-ND	1.11	9.80	65.30	09-48-4058
	6	.93 (23.62)	WM13503-ND	.99	8.73	58.18	09-48-4068
	7	1.09 (27.69)	WM13504-ND	1.32	11.63	77.53	09-48-4078
	8	1.24 (31.50)	WM13505-ND	1.45	12.77	85.13	09-48-4088
	9	1.40 (35.56)	WM13506-ND	1.48	13.08	87.20	09-48-4098
	10	1.56 (39.62)	WM13507-ND	1.65	14.54	96.90	09-48-4108
	11	1.71 (43.43)	WM13508-ND	1.81	15.99	106.60	09-48-4118
	12	1.87 (47.50)	WM13509-ND	1.98	17.44	116.28	09-48-4128
.156 (3.96mm) P.C. Board Connectors - Gold — RoHS Compliant							
4	2	.308 (7.82)	WM13540-ND	.52	4.55	30.35	09-48-3025
	3	.46 (11.68)	WM13510-ND	.82	7.21	48.05	09-48-3035
	4	.62 (15.75)	WM13511-ND	1.10	9.67	64.48	09-48-3045
	5	.78 (19.81)	WM13512-ND	1.37	12.07	80.48	09-48-3055
	6	.93 (23.62)	WM13513-ND	1.64	14.47	96.48	09-48-3065
	7	1.09 (27.69)	WM13514-ND	1.91	16.88	112.50	09-48-3075
	8	1.24 (31.50)	WM13515-ND	2.18	19.28	128.50	09-48-3085
	10	1.56 (39.62)	WM13517-ND	2.73	24.08	160.50	09-48-3105
	11	1.71 (43.43)	WM13518-ND	3.01	26.54	176.95	09-48-3115
	12	1.87 (47.50)	WM13519-ND	3.28	28.95	193.00	09-48-3125
5	2	.308 (7.82)	WM13541-ND	.54	4.78	31.88	09-48-3024
	3	.46 (11.68)	WM13520-ND	.86	7.58	50.55	09-48-3034
	4	.62 (15.75)	WM13521-ND	1.15	10.11	67.43	09-48-3044
	5	.78 (19.81)	WM13522-ND	1.43	12.64	84.28	09-48-3054
	6	.93 (23.62)	WM13523-ND	1.72	15.17	101.13	09-48-3064
	7	1.09 (27.69)	WM13524-ND	2.01	17.70	117.98	09-48-3074
	9	1.40 (35.56)	WM13526-ND	2.58	22.75	151.68	09-48-3094
	10	1.56 (39.62)	WM13527-ND	2.87	25.28	168.55	09-48-3104
	11	1.71 (43.43)	WM13528-ND	3.15	27.81	185.40	09-48-3114
	12	1.87 (47.50)	WM13529-ND	3.45	30.40	202.68	09-48-3124
6	2	.308 (7.82)	WM13542-ND	.52	4.55	42.49	09-48-3026
	3	.46 (11.68)	WM13530-ND	.82	7.21	48.05	09-48-3036
	6	.93 (23.62)	WM13533-ND	1.64	14.47	96.48	09-48-3066
	7	1.09 (27.69)	WM13534-ND	1.91	16.88	112.50	09-48-3076
	8	1.24 (31.50)	WM13535-ND	2.18	19.28	128.50	09-48-3086
	9	1.40 (35.56)	WM13536-ND	2.46	21.68	144.50	09-48-3096
	10	1.56 (39.62)	WM13537-ND	2.73	24.08	160.50	09-48-3106
	11	1.71 (43.43)	WM13538-ND	3.01	26.54	176.95	09-48-3116
	12	1.87 (47.50)	WM13539-ND	3.28	28.95	193.00	09-48-3126
NEW! Tools — RoHS Compliant NEW!							
Extractor Tool for 0.6mm (.02") CP Crimp Terminals			WM5150-ND	50.40	486.00	4500.00	0638132400
Insertion Tool for 2.54mm (.100") Pitch KK® IDT Crimp Terminals			WM5151-ND	20.25	195.75	1755.00	0638133504

◆ ***RoHS Compliant***

"Toy Car" Battery Connector

Fig. 1 – Plug

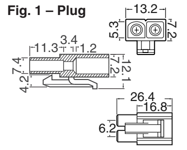

Fig. 2 – Socket

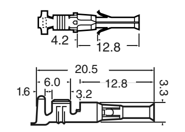

Fig. 3 – Receptacle

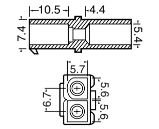

Fig. 4 – Pin

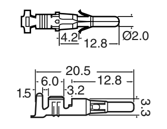

Features:

- 15 Amp current rating per circuit
- 300V voltage rating
- 14 ~ 20AWG wire range
- Nylon 6/6 housing 94V-2
- Industry standard product for radio controlled toy cars

Fig.	Digi-Key Part No.	Pricing 1	10	50	100	Molex Part No.
1	WM2308-ND	.40	3.54	16.50	23.58	35143-0201
2	WM2311-ND	.09	.80	3.71	5.30	35728-0201
3	WM2309-ND	.54	3.33	11.09	19.13	35141-0201
4	WM2310-ND	.10	.93	4.32	6.18	35727-0201

WM9999-ND Universal Crimp Tool (Waldom)..**$33.75**
WM9969-ND Manual Wire Stripper (Waldom)..**$63.00**

Crimp Terminal Connector Kits

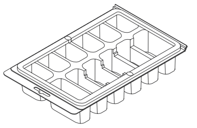

Item	WM9983 Kit Qty.	WM9981 Kit Qty.
Crimp Terminal Housings	36	48
Straight Headers	18	24
Right Angle Headers	18	24
Shunts	10	—
Crimp Terminal (22 ~ 30AWG)	100	—
Crimp Terminal (18 ~ 24AWG)	—	100
Crimping Tool 63811-1000	1	1
Extractor Tool HT-1884	1	1

Description	Digi-Key Part No.	Price Each	Molex Part No.
KK Series Connector Kit	WM9983-ND	51.55	76650-0009
KK Series Connector Kit	WM9981-ND	47.48	76650-0010

C-Grid® SL™ .100

Material: • **Pins:** .025"square, phosphor bronze • **Insulator**: UL 94V-0 glass filled PCT, black; Vapor phase and infrared process compatible • **Plating:** 15μ" minimum gold or 150μ" minimum tin/lead **Electrical**: • **Current Rating**: 3 amps • **Insulation Resistance:** 1,000MΩ • **Dielectric Strength:** 600VAC r.m.s for 1 minute **Environmental**: • **Operating Temperature:** -40°C ~ 105°C • UL Listed and CSA Certified

Fig. 1 – "G" Version, End-to-End Stackable
(Use C-Grid
Crimp Terminals sold separately)

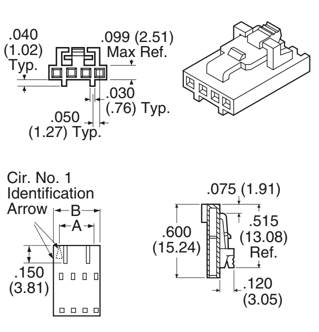

Fig. 2 – "A" Version
(Use C-Grid Crimp Terminals
sold separately)

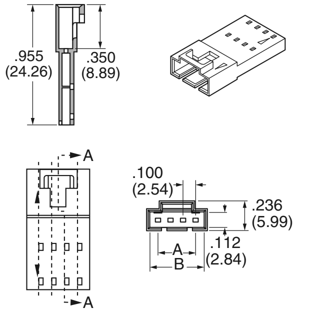

Fig. 3 – Panel Mount
(Use C-Grid Crimp Terminals
sold separately)

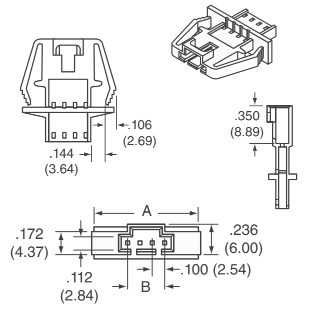

Fig. 4 – Straight Header

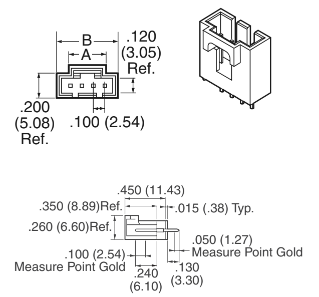

Fig. 5 – Right Angle Header

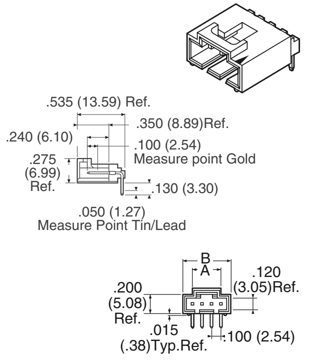

Fig. 6 – Right Angle Header with Pegs

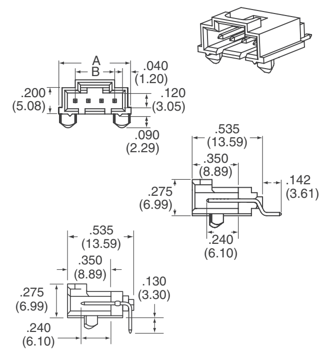

Fig. 7 – Straight Header SMT

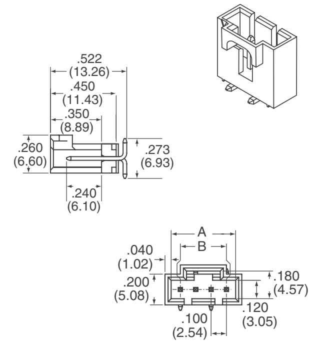

Fig. 8 – Vertical with Pegs

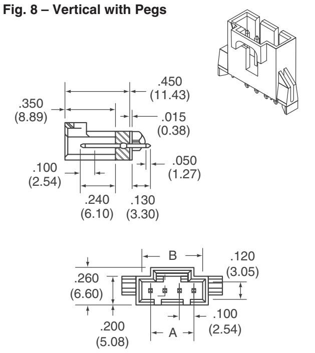

Fig.	Cir-cuits	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Receptacle Housing (Contact Sold Separately)									
1	2	.100 (2.54)	.199 (5.05)	WM2900-ND◆	.72	5.04	33.84	136.80	50-57-9402
	3	.200 (5.08)	.299 (7.59)	WM2901-ND◆	.70	4.33	24.88	99.50	50-57-9403
	4	.300 (7.62)	.399 (10.13)	WM2902-ND◆	.70	4.89	32.83	132.72	50-57-9404
	5	.400 (10.16)	.499 (12.67)	WM2903-ND◆	.90	6.30	42.30	171.00	50-57-9405
	6	.500 (12.70)	.599 (15.21)	WM2904-ND◆	.81	5.66	38.02	153.71	50-57-9406
	7	.600 (15.24)	.699 (17.75)	WM2905-ND◆	.93	6.51	43.73	176.80	50-57-9407
	8	.700 (17.78)	.799 (20.29)	WM2906-ND◆	1.01	7.08	47.52	192.09	50-57-9408
	9	.800 (20.32)	.899 (22.83)	WM2907-ND◆	.83	6.65	55.38	221.50	50-57-9409
	10	.900 (22.86)	.999 (25.37)	WM2908-ND◆	.84	6.70	55.81	223.24	50-57-9410
	11	1.00 (25.40)	1.099 (27.91)	WM2909-ND◆	.94	7.49	62.38	249.50	50-57-9411
	12	1.10 (27.94)	1.199 (30.45)	WM2910-ND◆	.80	6.44	53.63	214.50	50-57-9412
	13	1.20 (30.48)	1.299 (32.99)	WM2911-ND◆	1.16	9.26	77.18	308.70	50-57-9413
	14	1.30 (33.02)	1.399 (35.53)	WM2912-ND◆	1.26	10.10	84.18	336.70	50-57-9414
	15	1.40 (35.56)	1.499 (38.07)	WM2913-ND◆	1.32	10.57	88.08	352.30	50-57-9415
	16	1.50 (38.10)	1.599 (40.61)	WM2914-ND◆	1.39	11.14	92.85	371.40	50-57-9416
	17	1.60 (40.64)	1.699 (43.15)	WM2915-ND◆	1.45	11.57	96.38	385.50	50-57-9417
	18	1.70 (43.18)	1.799 (45.69)	WM2916-ND◆	1.52	12.19	101.60	406.40	50-57-9418
	19	1.80 (45.72)	1.899 (48.23)	WM2917-ND	1.88	15.02	125.13	500.50	50-57-9419
	20	1.90 (48.26)	1.999 (50.77)	WM2918-ND◆	1.95	15.59	129.95	519.80	50-57-9420
	21	2.00 (50.80)	2.099 (53.31)	WM2919-ND◆	2.01	16.07	133.88	535.50	50-57-9421
	22	2.10 (53.34)	2.199 (55.85)	WM2920-ND◆	2.07	16.54	137.80	551.20	50-57-9422
1	24	2.30 (58.42)	2.399 (60.93)	WM2922-ND◆	2.20	17.58	146.50	586.00	50-57-9424
	25	2.40 (60.96)	2.499 (63.47)	WM2923-ND◆	2.26	18.11	150.89	603.56	50-57-9425
Pin Housing (Contact Sold Separately) — RoHS Compliant									
2	2	.100 (2.54)	.220 (5.59)	WM2533-ND	1.16	8.11	54.45	220.12	70107-0001
	3	.200 (5.08)	.320 (8.13)	WM2534-ND	1.08	7.59	50.97	206.06	70107-0002
	4	.300 (7.62)	.420 (10.67)	WM2535-ND	1.21	8.46	56.78	229.52	70107-0003
	5	.400 (10.16)	.520 (13.21)	WM2536-ND	1.06	8.24	62.87	251.46	70107-0004
	6	.500 (12.70)	.620 (15.75)	WM2537-ND	1.41	10.91	83.21	332.82	70107-0005
	7	.600 (15.24)	.720 (18.29)	WM2538-ND	1.60	12.78	106.50	426.00	70107-0006
	8	.700 (17.78)	.820 (20.83)	WM2539-ND	1.64	13.12	109.33	437.30	70107-0007
	9	.800 (20.32)	.920 (23.37)	WM2540-ND	1.67	13.40	111.65	446.60	70107-0008
	10	.900 (22.86)	1.020 (25.91)	WM2541-ND	1.74	13.96	116.33	465.30	70107-0009
	11	1.00 (25.40)	1.18 (29.97)	WM2543-ND	1.72	13.77	114.78	459.10	70107-0010
	12	1.10 (27.94)	1.28 (32.51)	WM2544-ND	1.76	14.07	117.28	469.10	70107-0011
Panel Mount Pin Housing (Contact Sold Separately) — RoHS Compliant									
3	2	.650 (16.51)	.100 (2.54)	WM2574-ND	1.50	12.02	100.15	400.60	70107-0036
	3	.750 (19.05)	.200 (5.08)	WM2575-ND	1.52	12.17	101.43	405.70	70107-0037
	4	.850 (21.59)	.300 (7.62)	WM2576-ND	1.56	12.52	104.33	417.30	70107-0038
	5	.950 (24.13)	.400 (10.16)	WM2577-ND	1.57	12.57	104.73	418.90	70107-0039
	6	1.050 (26.67)	.500 (12.70)	WM2578-ND	1.62	12.97	108.10	432.40	70107-0040

◆ ***RoHS Compliant***

(Continued)

molex® C-Grid® SL™ .100 *(Cont.)*

Fig.	Circuits	Dimension – Inch (mm)		Digi-Key Part No.	Pricing				Molex Part No.
		A	B		1	10	100	500	
15μ" Minimum Gold — RoHS Compliant									
4	2	.100 (2.54)	.290 (7.37)	WM4800-ND	.99	7.72	58.91	235.62	70543-0001
	3	.200 (5.08)	.400 (10.17)	WM4801-ND	1.09	8.44	64.40	257.58	70543-0002
	4	.300 (7.62)	.500 (12.71)	WM4802-ND	1.17	9.11	69.48	277.92	70543-0003
	5	.400 (10.16)	.600 (15.25)	WM4803-ND	1.41	11.30	94.15	376.60	70543-0004
	6	.500 (12.70)	.700 (17.79)	WM4804-ND	1.36	10.59	80.80	323.19	70543-0005
	7	.600 (15.24)	.800 (20.33)	WM4805-ND	1.76	14.06	117.15	468.60	70543-0006
	8	.700 (17.78)	.900 (22.87)	WM4806-ND	1.88	15.05	125.43	501.70	70543-0007
	9	.800 (20.32)	1.000 (25.41)	WM4807-ND	2.01	16.04	133.70	534.80	70543-0008
	10	.900 (22.86)	1.100 (27.95)	WM4808-ND	2.13	17.03	141.95	567.80	70543-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4809-ND	2.24	17.92	149.33	597.30	70543-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4810-ND	2.37	18.97	158.05	632.20	70543-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4811-ND	2.49	19.91	165.88	663.50	70543-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4812-ND	2.62	20.95	174.58	698.30	70543-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4813-ND	2.74	21.94	182.85	731.40	70543-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4814-ND	2.87	22.94	191.13	764.50	70543-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4815-ND	2.97	23.76	198.00	792.00	70543-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4816-ND	3.09	24.75	206.28	825.10	70543-0017
	20	1.90 (48.26)	2.100 (53.35)	WM4818-ND	3.33	26.63	221.88	887.50	70543-0019
	22	2.10 (53.34)	2.300 (58.43)	WM4820-ND	3.56	28.50	237.53	950.10	70543-0021
	24	2.30 (58.42)	2.500 (63.51)	WM4822-ND	3.81	30.49	254.05	1016.20	70543-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4823-ND	3.96	31.70	264.18	1056.70	70543-0024
30μ" Gold — RoHS Compliant									
4	2	.100 (2.54)	.210 (5.33)	WM4122-ND	1.23	9.82	81.80	327.20	70543-0106
	3	.200 (5.08)	.320 (8.13)	WM4123-ND	1.34	10.75	89.60	358.40	70543-0107
	4	.300 (7.62)	.420 (10.67)	WM4124-ND	1.57	12.57	104.75	419.00	70543-0108
	5	.400 (10.16)	.520 (13.21)	WM4125-ND	1.73	13.84	115.33	461.30	70543-0109
	6	.500 (12.70)	.620 (15.75)	WM4126-ND	1.89	15.11	125.90	503.60	70543-0110
	7	.600 (15.24)	.720 (18.29)	WM4127-ND	2.05	16.43	136.93	547.70	70543-0111
	8	.700 (17.78)	.820 (20.83)	WM4128-ND	1.69	13.51	112.58	450.30	70543-0112
	9	.800 (20.32)	.920 (23.37)	WM4129-ND	2.38	19.02	158.50	634.00	70543-0113
	10	.900 (22.86)	1.020 (25.91)	WM4130-ND	2.21	17.64	147.03	588.10	70543-0114
	11	1.000 (25.40)	1.120 (28.45)	WM4131-ND	2.70	21.61	180.10	720.40	70543-0115
	12	1.100 (27.94)	1.220 (30.99)	WM4132-ND	2.87	22.99	191.58	766.30	70543-0116
150μ" Tin — RoHS Compliant									
4	2	.100 (2.54)	.290 (7.37)	WM4824-ND	1.04	8.32	69.35	277.40	70543-0036
	3	.200 (5.08)	.400 (10.17)	WM4825-ND	1.11	8.87	73.95	295.80	70543-0037
	4	.300 (7.62)	.500 (12.71)	WM4826-ND	1.19	9.54	79.48	317.90	70543-0038
	5	.400 (10.16)	.600 (15.25)	WM4827-ND	1.25	10.04	83.63	334.50	70543-0039
	6	.500 (12.70)	.700 (17.79)	WM4828-ND	1.10	8.82	73.48	293.90	70543-0040
	7	.600 (15.24)	.800 (20.33)	WM4829-ND	1.40	11.19	93.28	373.10	70543-0041
	8	.700 (17.78)	.900 (22.87)	WM4830-ND	1.45	11.64	96.98	387.90	70543-0042
	9	.800 (20.32)	1.000 (25.41)	WM4831-ND	1.52	12.19	101.55	406.20	70543-0043
	10	.900 (22.86)	1.100 (27.95)	WM4832-ND	1.61	12.85	107.05	428.20	70543-0044
	11	1.00 (25.40)	1.200 (30.49)	WM4833-ND	1.67	13.34	111.20	444.80	70543-0045
	12	1.10 (27.94)	1.300 (33.03)	WM4834-ND	1.73	13.84	115.33	461.30	70543-0046
15μ" Minimum Gold — RoHS Compliant									
5	2	.100 (2.54)	.290 (7.37)	WM4900-ND	1.21	8.50	57.06	230.66	70553-0001
	3	.200 (5.08)	.400 (10.17)	WM4901-ND	1.21	9.36	71.42	285.66	70553-0002
	4	.300 (7.62)	.500 (12.71)	WM4902-ND	1.25	9.72	74.16	296.64	70553-0003
	5	.400 (10.16)	.600 (15.25)	WM4903-ND	1.52	12.13	101.10	404.40	70553-0004
	6	.500 (12.70)	.700 (17.79)	WM4904-ND	1.52	12.13	101.10	404.40	70553-0005
	7	.600 (15.24)	.800 (20.33)	WM4905-ND	1.76	14.06	117.15	468.60	70553-0006
	8	.700 (17.78)	.900 (22.87)	WM4906-ND	1.88	15.05	125.43	501.70	70553-0007
	9	.800 (20.32)	1.000 (25.41)	WM4907-ND	2.01	16.04	133.70	534.80	70553-0008
	10	.900 (22.86)	1.100 (27.95)	WM4908-ND	2.13	17.03	141.95	567.80	70553-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4909-ND	2.24	17.92	149.33	597.30	70553-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4910-ND	2.37	18.97	158.05	632.20	70553-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4911-ND	2.49	19.91	165.88	663.50	70553-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4912-ND	2.62	20.95	174.58	698.30	70553-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4913-ND	2.74	21.94	182.85	731.40	70553-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4914-ND	2.87	22.94	191.13	764.50	70553-0015
	18	1.70 (43.18)	1.900 (48.27)	WM4916-ND	3.09	24.75	206.28	825.10	70553-0017
	20	1.90 (48.26)	2.100 (53.35)	WM4918-ND	3.33	26.63	221.88	887.50	70553-0019
	22	2.10 (53.34)	2.300 (58.43)	WM4920-ND	3.56	28.50	237.53	950.10	70553-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4921-ND	3.71	29.66	247.18	988.70	70553-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4922-ND	3.81	30.49	254.05	1016.20	70553-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4923-ND	3.96	31.70	264.18	1056.70	70553-0024
Right Angle 30μ" Gold — Through Hole — RoHS Compliant									
5	2	.100 (2.54)	.210 (5.33)	WM4153-ND	1.23	9.82	81.80	327.20	70553-0106
	3	.200 (5.08)	.320 (8.13)	WM4154-ND	1.39	11.14	92.83	371.30	70553-0107
	4	.300 (7.62)	.420 (10.67)	WM4155-ND	1.57	12.57	104.75	419.00	70553-0108
	5	.400 (10.16)	.520 (13.21)	WM4156-ND	1.73	13.84	115.33	461.30	70553-0109
	6	.500 (12.70)	.620 (15.75)	WM4157-ND	1.89	15.11	125.90	503.60	70553-0110
	7	.600 (15.24)	.720 (18.29)	WM4158-ND	2.05	16.43	136.93	547.70	70553-0111
	8	.700 (17.78)	.820 (20.83)	WM4159-ND	2.21	17.70	147.48	589.90	70553-0112
	9	.800 (20.32)	.920 (23.37)	WM4160-ND	2.38	19.02	158.50	634.00	70553-0113
	10	.900 (22.86)	1.020 (25.91)	WM4161-ND	2.55	20.40	170.00	680.00	70553-0114
	11	1.000 (25.40)	1.120 (28.45)	WM4162-ND	3.72	29.77	248.08	992.30	70553-0115
	12	1.100 (27.94)	1.220 (30.99)	WM4163-ND	2.87	22.99	191.58	766.30	70553-0116
150μ" Tin — RoHS Compliant									
5	2	.100 (2.54)	.290 (7.37)	WM4924-ND	1.04	8.32	69.35	277.40	70553-0036
	3	.200 (5.08)	.400 (10.17)	WM4925-ND	1.11	8.87	73.95	295.80	70553-0037
	4	.300 (7.62)	.500 (12.71)	WM4926-ND	1.00	7.99	66.60	266.40	70553-0038
	5	.400 (10.16)	.600 (15.25)	WM4927-ND	1.25	10.04	83.63	334.50	70553-0039
	6	.500 (12.70)	.700 (17.79)	WM4928-ND	1.33	10.64	88.65	354.60	70553-0040
	7	.600 (15.24)	.800 (20.33)	WM4929-ND	1.40	11.19	93.28	373.10	70553-0041
	8	.700 (17.78)	.900 (22.87)	WM4930-ND	1.45	11.64	96.98	387.90	70553-0042
	9	.800 (20.32)	1.00 (25.41)	WM4931-ND	1.52	12.19	101.55	406.20	70553-0043
	10	.900 (22.86)	1.10 (27.95)	WM4932-ND	1.61	12.85	107.05	428.20	70553-0044
	11	1.00 (25.40)	1.20 (30.49)	WM4933-ND	1.67	13.34	111.20	444.80	70553-0045
	12	1.10 (27.94)	1.30 (33.03)	WM4934-ND	1.73	13.84	115.33	461.30	70553-0046
15μ" Gold — SMD									
6	2	.340 (8.63)	.100 (2.54)	WM1340-ND◆	2.76	22.04	183.68	734.70	15-91-2025
	3	.450 (11.43)	.200 (5.08)	WM1341-ND◆	2.86	22.92	190.98	763.90	15-91-2035
	4	.550 (13.97)	.300 (7.62)	WM1342-ND◆	3.53	28.21	235.10	940.40	15-91-2045
	5	.650 (16.51)	.400 (10.16)	WM1343-ND◆	3.81	30.49	254.05	1016.20	15-91-2055
	6	.750 (19.05)	.500 (12.70)	WM1344-ND◆	3.88	31.04	258.68	1034.70	15-91-2065
	7	.850 (21.59)	.600 (15.24)	WM1345-ND◆	3.96	31.66	263.80	1055.20	15-91-2075-P
	8	.950 (24.13)	.700 (17.78)	WM1346-ND◆	4.03	32.21	268.45	1073.80	15-91-2085
	9	1.050 (26.67)	.800 (20.32)	WM1347-ND◆	4.10	32.77	273.05	1092.20	15-91-2095
	10	1.150 (29.21)	.900 (22.86)	WM1348-ND◆	4.20	33.57	279.75	1119.00	15-91-2105
	11	1.250 (31.75)	1.00 (25.40)	WM1349-ND	4.93	39.44	328.63	1314.50	15-91-2115
	12	1.350 (34.29)	1.10 (27.94)	WM1350-ND◆	5.72	45.73	381.10	1524.40	15-91-2125
Right Angle Tin — Through Hole — RoHS Compliant									
6	2	.100 (2.54)	.210 (5.33)	WM4164-ND	1.04	8.32	69.35	277.40	70555-0001
	3	.200 (5.08)	.320 (8.13)	WM4165-ND	1.11	8.87	73.95	295.80	70555-0002
	4	.300 (7.62)	.420 (10.67)	WM4166-ND	1.19	9.54	79.48	317.90	70555-0003
	5	.400 (10.16)	.520 (13.21)	WM4167-ND	1.25	10.04	83.63	334.50	70555-0004
	6	.500 (12.70)	.620 (15.75)	WM4168-ND	1.33	10.64	88.65	354.60	70555-0005
	7	.600 (15.24)	.720 (18.29)	WM4169-ND	1.40	11.19	93.28	373.10	70555-0006
	8	.700 (17.78)	.820 (20.83)	WM4170-ND	1.45	11.64	96.98	387.90	70555-0007
	9	.800 (20.32)	.920 (23.37)	WM4171-ND	1.52	12.19	101.55	406.20	70555-0008
	10	.900 (22.86)	1.020 (25.91)	WM4172-ND	1.61	12.85	107.05	428.20	70555-0009
	11	1.000 (25.40)	1.120 (28.45)	WM4173-ND	1.67	13.34	111.20	444.80	70555-0010
	12	1.100 (27.94)	1.220 (30.99)	WM4174-ND	1.73	13.84	115.33	461.30	70555-0011
Right Angle 15μ" Gold — Through Hole — RoHS Compliant									
6	2	.100 (2.54)	.210 (5.33)	WM4175-ND	1.14	9.16	76.30	305.20	70555-0036
	3	.200 (5.08)	.320 (8.13)	WM4176-ND	1.26	10.09	84.08	336.30	70555-0037
	4	.300 (7.62)	.420 (10.67)	WM4177-ND	1.41	11.25	93.73	374.90	70555-0038
	5	.400 (10.16)	.520 (13.21)	WM4178-ND	1.52	12.13	101.10	404.40	70555-0039
	6	.500 (12.70)	.620 (15.75)	WM4179-ND	1.56	12.52	104.30	417.20	70555-0040
	7	.600 (15.24)	.720 (18.29)	WM4180-ND	1.76	14.06	117.15	468.60	70555-0041
	8	.700 (17.78)	.820 (20.83)	WM4181-ND	1.88	15.05	125.43	501.70	70555-0042
	9	.800 (20.32)	.920 (23.37)	WM4182-ND	2.01	16.04	133.70	534.80	70555-0043
	10	.900 (22.86)	1.020 (25.91)	WM4183-ND	2.13	17.03	141.95	567.80	70555-0044
	11	1.000 (25.40)	1.120 (28.45)	WM4184-ND	2.24	17.92	149.33	597.30	70555-0045
	12	1.100 (27.94)	1.220 (30.99)	WM4185-ND	2.37	18.97	158.05	632.20	70555-0046
Right Angle SMT Tin — RoHS Compliant									
6	2	.340 (8.64)	.100 (2.54)	WM1375-ND	1.45	11.64	96.98	387.90	15-91-3024
	3	.450 (11.43)	.200 (5.08)	WM1376-ND	3.17	25.36	211.35	845.40	15-91-3034
	4	.550 (13.97)	.300 (7.62)	WM1377-ND	3.25	26.02	216.85	867.40	15-91-3044
	5	.650 (16.51)	.400 (10.16)	WM1378-ND	3.31	26.52	220.98	883.90	15-91-3054
	6	.750 (19.05)	.500 (12.70)	WM1379-ND	3.39	27.12	226.03	904.10	15-91-3064
	7	.850 (21.59)	.600 (15.24)	WM1380-ND	3.45	27.62	230.15	920.60	15-91-3074
	8	.950 (24.13)	.700 (17.78)	WM1381-ND	3.51	28.11	234.28	937.10	15-91-3084
	9	1.050 (26.67)	.800 (20.32)	WM1382-ND	3.58	28.67	238.90	955.60	15-91-3094
	10	1.150 (29.21)	.900 (22.86)	WM1383-ND	3.70	29.60	246.70	986.80	15-91-3104
	11	1.250 (31.75)	1.000 (25.40)	WM1384-ND	3.78	30.21	251.75	1007.00	15-91-3114
	12	1.350 (34.29)	1.100 (27.94)	WM1385-ND	3.83	30.65	255.43	1021.70	15-91-3124
Vertical SMT 15μ" Gold									
7	3	.320 (8.13)	.200 (5.08)	WM7203-ND◆	1.92	15.37	128.08	512.30	74099-1003
	4	.420 (10.67)	.300 (7.62)	WM7204-ND◆	2.05	16.43	136.93	547.70	74099-1004
	5	.520 (13.21)	.400 (10.16)	WM7205-ND◆	3.07	24.59	204.93	819.70	74099-1005
	6	.620 (15.75)	.500 (12.70)	WM7206-ND◆	2.19	17.49	145.75	583.00	74099-1006
	7	.720 (18.29)	.600 (15.24)	WM7207-ND◆	2.25	18.02	150.18	600.70	74099-1007
	8	.820 (20.83)	.700 (17.78)	WM7208-ND◆	2.39	19.08	159.00	636.00	74099-1008
	10	1.020 (25.91)	.900 (22.86)	WM7210-ND	2.68	21.44	178.63	714.50	74099-1010
	11	1.120 (28.45)	1.000 (25.40)	WM7211-ND◆	3.29	26.29	219.10	876.40	74099-1011
	12	1.220 (30.99)	1.100 (27.94)	WM7212-ND◆	3.86	30.91	257.58	1030.30	74099-1012
Vertical SMT Tin — RoHS Compliant									
7	3	.320 (8.13)	.200 (5.08)	WM7213-ND	1.84	14.73	122.78	491.10	74099-0003
	4	.420 (10.67)	.300 (7.62)	WM7214-ND	1.92	15.37	128.08	512.30	74099-0004
	5	.520 (13.21)	.400 (10.16)	WM7215-ND	1.99	15.90	132.50	530.00	74099-0005
	6	.620 (15.75)	.500 (12.70)	WM7216-ND	2.05	16.43	136.93	547.70	74099-0006
	7	.720 (18.29)	.600 (15.24)	WM7217-ND	2.12	16.96	141.33	565.30	74099-0007
	8	.820 (20.83)	.700 (17.78)	WM7218-ND	2.20	17.60	146.63	586.50	74099-0008
	9	.920 (23.37)	.800 (20.32)	WM7219-ND	2.25	18.02	150.18	600.70	74099-0009
	10	1.020 (25.91)	.900 (22.86)	WM7220-ND	2.36	18.86	157.18	628.70	74099-0010
	11	1.120 (28.45)	1.000 (25.40)	WM7221-ND	2.93	23.46	195.50	782.00	74099-0011
	12	1.220 (30.99)	1.100 (27.94)	WM7222-ND	3.48	27.82	231.83	927.30	74099-0012
Vertical Tin — RoHS Compliant									
8	2	.100 (2.54)	.210 (5.33)	WM4133-ND	1.01	8.05	67.08	268.30	70545-0001
	3	.200 (5.08)	.320 (8.13)	WM4134-ND	1.11	8.87	73.95	295.80	70545-0002
	4	.300 (7.62)	.420 (10.67)	WM4186-ND	1.01	8.05	67.08	268.30	70545-0003
	5	.400 (10.16)	.520 (13.21)	WM4135-ND	1.24	9.92	82.70	330.80	70545-0004
	6	.500 (12.70)	.620 (15.75)	WM4136-ND	1.21	9.65	80.43	321.70	70545-0005
	7	.600 (15.24)	.720 (18.29)	WM4137-ND	1.40	11.19	93.28	373.10	70545-0006
	8	.700 (17.78)	.820 (20.83)	WM4138-ND	1.45	11.64	96.98	387.90	70545-0007
	9	.800 (20.32)	.920 (23.37)	WM4139-ND	1.52	12.19	101.55	406.20	70545-0008
	10	.900 (22.86)	1.020 (25.91)	WM4187-ND	1.61	12.85	107.05	428.20	70545-0009
	11	1.000 (25.40)	1.120 (28.45)	WM4140-ND	1.67	13.34	111.20	444.80	70545-0010
	12	1.100 (27.94)	1.220 (30.99)	WM4141-ND	1.73	13.84	115.33	461.30	70545-0011
Vertical 15μ" Gold — RoHS Compliant									
8	2	.100 (2.54)	.210 (5.33)	WM4142-ND	.96	7.72	64.33	257.30	70545-0036
	3	.200 (5.08)	.320 (8.13)	WM4143-ND	1.14	9.16	76.30	305.20	70545-0037
	4	.300 (7.62)	.420 (10.67)	WM4144-ND	1.17	9.38	78.13	312.50	70545-0038
	5	.400 (10.16)	.520 (13.21)	WM4145-ND	1.34	10.75	89.60	358.40	70545-0039
	6	.500 (12.70)	.620 (15.75)	WM4146-ND	1.31	10.48	87.33	349.30	70545-0040
	7	.600 (15.24)	.720 (18.29)	WM4147-ND	1.58	12.65	105.45	421.80	70545-0041
	8	.700 (17.78)	.820 (20.83)	WM4148-ND	1.88	15.05	125.43	501.70	70545-0042
	9	.800 (20.32)	.920 (23.37)	WM4149-ND	1.82	14.56	121.30	485.20	70545-0043
	10	.900 (22.86)	1.020 (25.91)	WM4150-ND	2.00	15.99	133.25	533.00	70545-0044
	11	1.000 (25.40)	1.120 (28.45)	WM4151-ND	2.24	17.92	149.33	597.30	70545-0045
	12	1.100 (27.94)	1.220 (30.99)	WM4152-ND	2.37	18.97	158.05	632.20	70545-0046

◆ ***RoHS Compliant***

Kit

WM8491-ND◆ (76650-0170) **SL Signal Connector Kit**;
(High Vibration Signal Vertical and Right Angle Header and Receptacle)........... **$32.61**

◆ ***RoHS Compliant***

C-Grid® .100” Crimp Connector Housings

Fig. 1

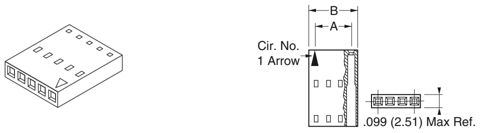

Fig. 2

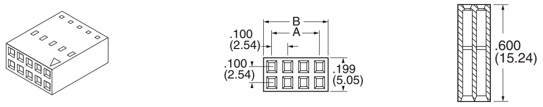

Fig.	Circuits	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
1	2	.100 (2.54)	.199 (5.05)	WM2800-ND	.84	5.21	29.93	119.70	50-57-9002
	3	.200 (5.08)	.299 (7.59)	WM2801-ND	1.02	7.11	47.75	193.04	50-57-9003
	4	.300 (7.62)	.399 (10.13)	WM2802-ND	.81	5.66	38.02	153.71	50-57-9004
	5	.400 (10.16)	.499 (12.67)	WM2803-ND	.77	6.81	45.38	181.50	50-57-9005
	6	.500 (12.70)	.599 (15.21)	WM2804-ND	.82	7.26	48.43	193.70	50-57-9006
	7	.600 (15.24)	.699 (17.75)	WM2805-ND	.88	7.72	51.48	205.90	50-57-9007
	8	.700 (17.78)	.799 (20.29)	WM2806-ND	.93	8.18	54.50	218.00	50-57-9008
	9	.800 (20.32)	.899 (22.83)	WM2807-ND	.99	8.76	58.40	233.60	50-57-9009
	10	.900 (22.86)	.999 (25.37)	WM2808-ND	1.05	9.23	61.50	246.00	50-57-9010
2	4	.100 (2.54)	.199 (5.05)	WM2519-ND	2.22	19.61	130.73	522.90	22-55-2041
	6	.200 (5.08)	.299 (7.59)	WM2520-ND	1.91	16.84	112.28	449.10	22-55-2061
	8	.300 (7.62)	.399 (10.13)	WM2521-ND	2.44	21.56	143.73	574.90	22-55-2081
	10	.400 (10.16)	.499 (12.67)	WM2522-ND	1.59	12.37	94.37	377.46	22-55-2101

Fig.	Circuits	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
2	12	.500 (12.70)	.599 (15.21)	WM2523-ND	2.66	23.51	156.75	627.00	22-55-2121
	14	.600 (15.24)	.699 (17.75)	WM2524-ND	2.78	24.53	163.50	654.00	22-55-2141
	16	.700 (17.78)	.799 (20.29)	WM2525-ND	2.88	25.40	169.33	677.30	22-55-2161
	18	.800 (20.32)	.899 (22.83)	WM2526-ND	2.99	26.34	175.63	702.50	22-55-2181
	20	.900 (22.86)	.999 (25.37)	WM2527-ND	3.10	27.36	182.38	729.50	22-55-2201
	22	1.000 (25.40)	1.099 (27.91)	WM2528-ND	3.21	28.29	188.63	754.50	22-55-2221
	24	1.100 (27.95)	1.199 (30.45)	WM2529-ND	3.32	29.31	195.38	781.50	22-55-2241
	30	1.400 (35.56)	1.499 (38.07)	WM2530-ND	3.61	31.86	212.43	849.70	22-55-2301
	34	1.600 (40.64)	1.699 (43.15)	WM2542-ND	3.45	30.45	203.03	812.10	22-55-2341
	40	1.900 (48.26)	1.999 (50.77)	WM2531-ND	4.19	36.98	246.55	986.20	22-55-2401
	50	2.400 (60.96)	2.499 (63.47)	WM2532-ND	4.73	41.77	278.49	1113.95	22-55-2501
Polarization Key, Black				WM1033-ND	.44	3.89	25.95	103.80	15-04-0292

C-Grid® Box Crimp Terminals

Terminal Material: Phosphor Bronze

Current Rating:
3.0Amps (24AWG) 30°C Rise Over Ambient

UL Listed and CSA Certified

Fig. 1

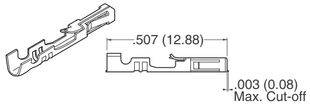

Fig. 2

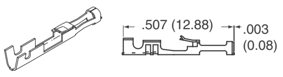

Fig. 3

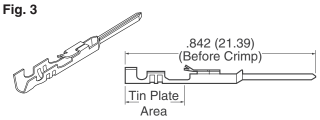

Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
1	22 ~ 24	.064 (1.63)	Tin‡	WM2510-ND	1.87	8.28	32.04	56.07	16-02-0102
	22 ~ 24	.064 (1.63)	Tin‡	WM2510CT-ND▲	—	7.40	28.64	50.13	16-02-0086
	22 ~ 24	.064 (1.63)	Tin‡	WM2510TR-ND◊	585.90/20,000				16-02-0086
	22 ~ 24	.064 (1.63)	Gold†	WM2512-ND	2.29	11.47	44.83	79.23	16-02-0103
	22 ~ 24	.064 (1.63)	Gold†	WM2512CT-ND▲	—	10.61	41.48	73.15	16-02-0087
	22 ~ 24	.064 (1.63)	Gold†	WM2512TR-ND◊	875.00/20,000				16-02-0087
	22 ~ 24	.064 (1.63)	Gold††	WM2564-ND	1.64	13.70	54.80	90.97	16-02-0104
	22 ~ 24	.064 (1.63)	Gold††	WM2564CT-ND▲	—	12.40	49.61	89.30	16-02-0088
	22 ~ 24	.064 (1.63)	Gold††	WM2564TR-ND◊	1262.80/20,000				16-02-0088
	24 ~ 30	.060 (1.52)	Tin‡	WM2562-ND	2.24	9.92	38.40	67.20	16-02-0096
	24 ~ 30	.060 (1.52)	Tin‡	WM2562CT-ND▲	—	6.82	26.40	46.20	16-02-0069
	24 ~ 30	.060 (1.52)	Tin‡	WM2562TR-ND◊	540.00/20,000				16-02-0069
	24 ~ 30	.060 (1.52)	Gold†	WM2513-ND	2.29	11.47	44.83	79.23	16-02-0097
2	24 ~ 30	.060 (1.52)	Gold†	WM2568CT-ND▲	—	13.70	54.78	98.60	16-02-0119
	24 ~ 30	.060 (1.52	Gold†	WM2568TR-ND◊	1324.68/20,000				16-02-0119
3	22 ~ 24	.064 (1.63)	Tin‡	WM2517-ND	.92	7.68	30.70	50.96	16-02-0114
	22 ~ 24	.064 (1.63)	Tin‡	WM2517CT-ND▲	—	5.75	23.00	38.18	16-02-0107
	22 ~ 24	.064 (1.63)	Tin‡	WM2517TR-ND◊	920.00/20,000				16-02-0107
	22 ~ 24	.064 (1.63)	Gold†	WM2515-ND	2.97	14.85	58.05	102.60	16-02-0115
	22 ~ 24	.064 (1.63)	Gold†	WM2515CT-ND▲	—	12.12	47.40	83.60	16-02-0081
	22 ~ 24	.064 (1.63)	Gold†	WM2515TR-ND◊	1064.00/20,000				16-02-0081
	22 ~ 24	.064 (1.63)	Gold††	WM2567-ND	1.96	16.35	65.40	108.56	16-02-0117
	22 ~ 24	.064 (1.63)	Gold††	WM2567CT-ND▲	—	12.26	49.05	81.42	16-02-0116
	22 ~ 24	.064 (1.63)	Gold††	WM2567TR-ND◊	2120.00/20,000				16-02-0116
	24 ~ 30	.060 (1.52)	Tin‡	WM2565-ND	.92	7.68	30.70	50.96	16-02-0108
	24 ~ 30	.060 (1.52)	Tin‡	WM2565CT-ND▲	—	7.40	28.64	50.13	16-02-0105
	24 ~ 30	.060 (1.52)	Tin‡	WM2565TR-ND◊	585.90/20,000				16-02-0105
	24 ~ 30	.060 (1.52)	Gold†	WM2563CT-ND▲	1.59	12.72	53.00	95.40	16-02-0077
	24 ~ 30	.060 (1.52)	Gold†	WM2563TR-ND◊	1700.00/20,000				16-02-0077

Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
3	24 ~ 30	.060 (1.52)	Gold†	WM2516-ND	1.56	12.98	51.90	86.15	16-02-0109
	24 ~ 30	.060 (1.52)	Gold††	WM2566-ND	1.96	16.35	65.40	108.56	16-02-0110
2	22 ~ 24	.064 (1.63)	Tin‡	WM2569-NDΔ	1.22	10.18	40.70	67.56	16-02-1114
	22 ~ 24	.064 (1.63)	Tin‡	WM2569CT-NDΔ▲	—	7.67	30.67	50.91	16-02-1110
	22 ~ 24	.064 (1.63)	Tin‡	WM2569TR-ND◊	1220.00/20,000				16-02-1110
	22 ~ 24	.064 (1.63)	Gold†	WM2573CT-NDΔ▲	—	12.43	49.73	82.55	16-02-1124
	22 ~ 24	.064 (1.63)	Gold†	WM2573TR-NDΔ◊	2100.00/20,000				16-02-1124
	22 ~ 24	.064 (1.63)	Gold†	WM2573-NDΔ	3.30	16.50	64.50	114.00	16-02-1125
	22 ~ 24	.064 (1.63)	Gold††	WM2570CT-NDΔ▲	—	15.80	63.75	114.07	16-02-1111
	22 ~ 24	.064 (1.63)	Gold††	WM2570TR-NDΔ◊	1620.00/20,000				16-02-1111
	22 ~ 24	.064 (1.63)	Gold††	WM2570-NDΔ	2.20	18.30	73.20	121.51	16-02-1115
	24 ~ 30	.060 (1.52)	Tin‡	WM2571-NDΔ	1.22	10.18	40.70	67.56	16-02-1116
	24 ~ 30	.060 (1.52)	Tin‡	WM2571CT-NDΔ▲	—	10.51	41.12	72.52	16-02-1112
	24 ~ 30	.060 (1.52)	Tin‡	WM2571TR-NDΔ◊	936.90/20,000				16-02-1112
	24 ~ 30	.060 (1.52)	Gold†	WM2555-NDΔ	3.82	19.09	74.61	131.86	16-02-1109
	24 ~ 30	.060 (1.52)	Gold††	WM2572CT-NDΔ▲	—	15.80	63.75	114.07	16-02-1113
	24 ~ 30	.060 (1.52)	Gold††	WM2572TR-NDΔ◊	1620.00/20,000				16-02-1113
	24 ~ 30	.060 (1.52)	Gold††	WM2572-NDΔ	2.20	18.30	73.20	121.51	16-02-1117
Universal Crimp Tool				WM9999-ND	33.75/1				63811-1000
C-Grid Hand Crimper 22~24/32~36AWG				WM9017-ND	269.33/1				63811-8700
C-Grid Hand Crimper 24~30AWG				WM9998-ND	269.33/1				63811-8800
C-Grid Hand Crimper 20~36AWG				WM17552-ND ***NEW!***	100.80/1				64016-0201
Insertion Tool				WM9911-ND	15.30/1				11-02-0022
Extraction Tool				WM1032-ND	15.30/1				11-03-0036
Manual Wire Stripper				WM9969-ND	63.00/1				63817-0000

Δ High pressure type for low pin count ‡ 150μ” tin/lead over 50μ” nickel overall
† 15μ” minimum gold in select area over 50μ” minimum nickel overall with 75μ” minimum tin in select area
†† 30μ” minimum gold in select area over 50μ” minimum nickel overall with 75μ” minimum tin/lead in select area
▲ Cut Tape ◊ Tape and Reel

C-Grid III™ 2.54mm (.100”) Pitch

Modular Crimp Connector Housing

Specifications:

Electrical: • Voltage: 350V • Insulation Resistance: 1,000MΩ minimum • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum

Physical: • Housing: Black Polyphenylene Oxide • UL94V-1 • Operating Temperature: -55°C ~ 105°C

Note: C-Grid III does not mate to C-Grid®

Fig. 1 – Single Row

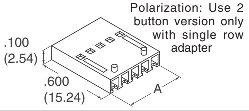
Polarization: Use 2 button version only with single row adapter
.100
(2.54)
.600
(15.24)
A

Fig. 2 – Single Row

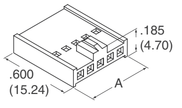

Fig. 3 – Dual Row

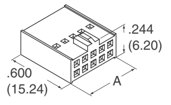

Fig. 4 – Dual Row

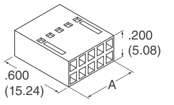

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
1	2	.200 (5.08)	WM8000-ND	.25	2.21	14.73	58.90	90123-0102
	3	.300 (7.62)	WM8001-ND	.37	3.23	21.50	86.00	90123-0103
	4	.400 (10.16)	WM8002-ND	.48	4.23	28.23	112.90	90123-0104
	5	.500 (12.70)	WM8003-ND	.59	5.25	34.98	139.90	90123-0105
	6	.600 (15.24)	WM8004-ND	.70	6.20	41.33	165.30	90123-0106
	7	.700 (17.78)	WM8005-ND	.43	3.80	25.30	101.20	90123-0107
	8	.800 (20.32)	WM8006-ND	.93	8.24	54.90	219.60	90123-0108
	9	.900 (22.86)	WM8007-ND	.97	8.54	56.90	227.60	90123-0109
	10	1.000 (25.40)	WM8008-ND	1.10	9.73	64.88	259.50	90123-0110
	15	1.500 (38.10)	WM8011-ND	1.61	14.22	94.80	379.20	90123-0115
	18	1.800 (45.72)	WM8012-ND	1.96	17.34	115.58	462.30	90123-0118
	20	2.000 (50.80)	WM8014-ND	2.15	18.96	126.38	505.50	90123-0120

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
1	25	2.500 (63.50)	WM8016-ND	2.69	23.70	158.03	632.10	90123-0125
2	2	.242 (6.14)	WM8017-ND	.26	2.34	15.58	62.30	90156-0142
	3	.342 (8.68)	WM8018-ND	.34	3.03	20.23	80.90	90156-0143
	4	.442 (11.22)	WM8019-ND	.47	4.17	27.80	111.20	90156-0144
	5	.542 (13.76)	WM8020-ND	.56	4.93	32.85	131.40	90156-0145
	6	.642 (16.30)	WM8021-ND	.67	5.88	39.20	156.80	90156-0146
	7	.742 (18.84)	WM8022-ND	.77	6.83	45.50	182.00	90156-0147
	8	.842 (21.38)	WM8023-ND	.88	7.77	51.83	207.30	90156-0148
	9	.942 (23.92)	WM8024-ND	.97	8.54	56.90	227.60	90156-0149
	10	1.042 (26.46)	WM8025-ND	1.05	9.29	61.93	247.70	90156-0150
	12	1.242 (31.54)	WM8026-ND	1.25	11.00	73.33	293.30	90156-0152

(Continued)

molex C-Grid III™ 2.54mm (.100”) Pitch

Modular Crimp Connector Housing *(Cont.)*

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
2	14	1.442 (36.62)	WM8028-ND	1.43	12.64	84.28	337.10	90156-0154
	16	1.642 (41.70)	WM8030-ND	1.70	15.04	100.28	401.10	90156-0156
3	6	.306 (7.77)	WM8035-ND	.66	5.84	38.90	155.60	90142-0006
	8	.406 (10.31)	WM8036-ND	.88	7.78	51.85	207.40	90142-0008
	10	.506 (12.85)	WM8037-ND	1.09	9.60	64.03	256.10	90142-0010
	12	.606 (15.39)	WM8038-ND	1.27	11.24	74.95	299.80	90142-0012
	14	.706 (17.93)	WM8039-ND	1.36	12.03	80.23	320.90	90142-0014
	16	.806 (20.47)	WM8040-ND	1.41	10.97	83.63	334.53	90142-0016
	18	.906 (23.01)	WM8041-ND	1.74	15.31	102.08	408.30	90142-0018
	20	1.006 (25.55)	WM8042-ND	1.81	15.98	106.55	426.20	90142-0020
	22	1.106 (28.09)	WM8043-ND	1.87	16.53	110.23	440.90	90142-0022
	24	1.206 (30.63)	WM8044-ND	2.28	20.12	134.10	536.40	90142-0024
	26	1.306 (33.17)	WM8045-ND	2.34	20.66	137.73	550.90	90142-0026
	30	1.506 (38.25)	WM8046-ND	2.67	23.52	156.78	627.10	90142-0030
	34	1.706 (43.33)	WM8047-ND	2.98	26.25	175.00	700.00	90142-0034
	36	1.806 (45.87)	WM8048-ND	3.15	27.77	185.15	740.60	90142-0036
	40	2.006 (50.95)	WM8050-ND	3.73	32.94	219.60	878.40	90142-0040
	44	2.206 (56.03)	WM8051-ND	4.15	36.57	243.83	975.30	90142-0044
	50	2.506 (63.65)	WM8052-ND	4.75	41.93	279.55	1118.20	90142-0050
4	4	.200 (5.08)	WM8056-ND	.43	3.80	25.30	101.20	90143-0004
	6	.300 (7.62)	WM8057-ND	.62	5.50	36.68	146.70	90143-0006
4	8	.400 (10.16)	WM8058-ND	.83	7.33	48.88	195.50	90143-0008
	10	.500 (12.70)	WM8059-ND	1.03	9.10	60.65	242.60	90143-0010
	12	.600 (15.24)	WM8060-ND	1.21	10.68	71.20	284.80	90143-0012
	14	.700 (17.78)	WM8061-ND	1.40	12.39	82.58	330.30	90143-0014
	16	.800 (20.32)	WM8062-ND	1.59	14.03	93.53	374.10	90143-0016
	20	1.000 (25.40)	WM8064-ND	2.17	19.15	127.65	510.60	90143-0020
	26	1.300 (33.02)	WM8065-ND	2.79	24.65	164.33	657.30	90143-0026
	34	1.700 (43.18)	WM8066-ND	3.18	28.07	187.10	748.40	90143-0034
	40	2.000 (50.80)	WM8068-ND	3.72	32.87	219.10	876.40	90143-0040
	50	2.500 (63.50)	WM8069-ND	4.66	41.08	273.88	1095.50	90143-0050
	60	3.000 (76.20)	WM8070-ND	5.59	49.29	328.63	1314.50	90143-0060
	64	3.200 (81.28)	WM8071-ND	5.74	50.63	337.50	1350.00	90143-0064

Kits

WM8498-ND (76650-0177) **C-Grid III Connector Kit**;
(Single Row Vertical Header and Receptacle).. **$29.49**

WM8499-ND (76650-0178) **C-Grid III Connector Kit**;
(Dual Row Vertical Header and Receptacle) **$40.04**

WM8500-ND (76650-0179) **C-Grid III Connector Kit**;
(Dual Row Right Angle Header and Receptacle).. **$40.61**

Female Crimp Terminals

Specifications

Electrical:

- Voltage: 350V
- Current Rating: 3.0A
- Contact Resistance: 20mΩ maximum

Physical:

- Contact: Phosphor Bronze
- Wire Insulation Diameter: 1.70mm (.067”) maximum

Plating Options:

A: 1μm (.39μ”) minimum Hot Tin dip

E: 0.38μm (15μ”) Selective Gold over Nickel and 4μm (160μ”) Tin/Lead over Nickel

Wire Range	Insulation Diameter Range Inch (mm)	Plating Options	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 20,000	Molex Part No.
22 ~ 24	.040/.058 (1.02/1.47)	A	WM2581CT-ND‡	1.60	14.92	60.63	WM2581TR-ND	54.00/M	90119-0109
	.040/.058 (1.02/1.47)	E	WM2580CT-ND‡	2.56	14.71	58.85	WM2580TR-ND	71.16/M	90119-0110
	.040/.058 (1.02/1.47)	A	WM2558-ND ***NEW!***	2.35	11.77	46.01	—	—	90119-2109
	.040/.058 (1.02/1.47)	E	WM2559-ND	3.15	18.10	72.40	—	—	90119-2110
26 ~ 28	.030/.048 (0.76/1.22)	A	WM2560-ND	1.36	11.35	45.40	—	—	90119-2120
	.030/.048 (0.76/1.22)	E	WM2561-ND	2.09	17.40	69.60	—	—	90119-2121
Tools									
Hand Crimp Tool for 22 ~ 28AWG			WM9028-ND		269.33/1		—	—	63819-0200
Locator Assembly for 63819-0200			WM1195-ND ***NEW!***		37.80/1		—	—	63819-0275
Extraction Tool			WM5155-ND ***NEW!***		63.00/1		—	—	0690080003
Insertion Tool			WM5156-ND ***NEW!***		27.00/1		—	—	0690080140
MicroClasp™ Hand Crimp Tool; 2.00mm (.079”) Pitch Female Crimp Terminal, 22 ~ 26AWG			WM5146-ND ***NEW!***		269.33/1		—	—	0638116300

‡ Cut Tape

Headers

Specifications:

Electrical:

- Voltage: 350V
- Current Rating: 3.0A
- Contact Resistance: 20mΩ maximum
- Insulation Resistance: 5,000 MΩ minimum

Physical:

- Housing: Black glass-filled polyester
- UL94V-0
- Operating Temperature: -55°C ~ 125°C
- Contact: Copper Alloy, 0.64mm (.025”) square pin

Note: C-Grid III does not mate to C-Grid

Fig. 1 – Single Row, Vertical

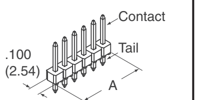

Fig. 2 – Single Row, Right Angle

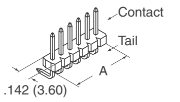

Fig. 3 – Dual Row, Vertical

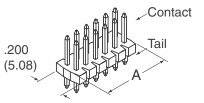

Fig. 4 – Dual Row, Right Angle

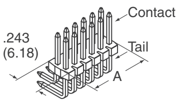

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Tin Contacts with Tin Tails								
1	2	.200 (5.08)	WM8072-ND	.43	2.53	11.19	43.32	90120-0122
	3	.300 (7.62)	WM8073-ND	.31	2.73	18.23	72.90	90120-0123
	4	.400 (10.16)	WM8074-ND	.41	3.65	24.30	97.20	90120-0124
	5	.500 (12.70)	WM8075-ND	.52	4.56	30.40	121.60	90120-0125
	6	.600 (15.24)	WM8076-ND	.62	5.47	36.48	145.90	90120-0126
	7	.700 (17.78)	WM8077-ND	.72	6.38	42.53	170.10	90120-0127
	8	.800 (20.32)	WM8078-ND	.82	7.23	48.23	192.90	90120-0128
	9	.900 (22.86)	WM8079-ND	.92	8.15	54.30	217.20	90120-0129
	10	1.000 (25.40)	WM8080-ND	1.03	9.05	60.35	241.40	90120-0130
	11	1.100 (27.94)	WM8081-ND	.79	6.99	46.63	186.50	90120-0131
	12	1.200 (30.48)	WM8082-ND	.68	6.04	40.28	161.10	90120-0132
	40	4.000 (101.60)	WM8083-ND	4.11	36.28	241.88	967.50	90120-0160
2	2	.200 (5.08)	WM8096-ND	.23	2.04	13.58	54.30	90121-0122
	3	.300 (7.62)	WM8097-ND	.34	3.04	20.25	81.00	90121-0123
	4	.400 (10.16)	WM8098-ND	.46	4.07	27.13	108.50	90121-0124
	5	.500 (12.70)	WM8099-ND	.57	5.04	33.63	134.50	90121-0125
	6	.600 (15.24)	WM8100-ND	.66	5.84	38.90	155.60	90121-0126
	7	.700 (17.78)	WM8101-ND	.76	6.68	44.55	178.20	90121-0127
	8	.800 (20.32)	WM8102-ND	.85	7.47	49.83	199.30	90121-0128
	9	.900 (22.86)	WM8103-ND	.90	7.96	53.08	212.30	90121-0129
	10	1.000 (25.40)	WM8104-ND	1.03	9.05	60.35	241.40	90121-0130
	11	1.100 (27.94)	WM8105-ND	1.13	9.96	66.43	265.70	90121-0131
	12	1.200 (30.48)	WM8106-ND	1.23	10.88	72.50	290.00	90121-0132
	40	4.000 (101.60)	WM8107-ND	4.55	40.17	267.78	1071.10	90121-0160
3	4	.200 (5.08)	WM8120-ND	.43	3.80	25.30	101.20	90131-0122
	6	.300 (7.62)	WM8121-ND	.44	3.92	26.10	104.40	90131-0123
	8	.400 (10.16)	WM8122-ND	.85	7.52	50.15	200.60	90131-0124
	10	.500 (12.70)	WM8123-ND	1.07	9.42	62.78	251.10	90131-0125
	12	.600 (15.24)	WM8124-ND	1.28	11.32	75.45	301.80	90131-0126
	14	.700 (17.78)	WM8125-ND	1.50	13.21	88.05	352.20	90131-0127
	16	.800 (20.32)	WM8126-ND	1.71	15.11	100.70	402.80	90131-0128
	18	.900 (22.86)	WM8127-ND	1.93	17.07	113.78	455.10	90131-0129
	20	1.000 (25.40)	WM8128-ND	2.15	18.96	126.38	505.50	90131-0130
3	22	1.100 (27.94)	WM8129-ND	2.36	20.79	138.63	554.50	90131-0131
	24	1.200 (30.48)	WM8130-ND	2.56	22.63	150.85	603.40	90131-0132
	26	1.300 (33.02)	WM8131-ND	2.78	24.52	163.48	653.90	90131-0133
	28	1.400 (35.56)	WM8132-ND	2.99	26.42	176.15	704.60	90131-0134
	30	1.500 (38.10)	WM8133-ND	3.21	28.31	188.75	755.00	90131-0135
	40	2.000 (50.80)	WM8134-ND	4.28	37.73	251.55	1006.20	90131-0140
	50	2.500 (63.50)	WM8135-ND	5.34	47.15	314.33	1257.30	90131-0145
	60	3.000 (76.20)	WM8136-ND	6.42	56.63	377.50	1510.00	90131-0150
	80	4.000 (101.60)	WM8137-ND	8.55	75.46	503.08	2012.30	90131-0160
4	4	.200 (5.08)	WM8157-ND	.88	7.77	51.83	207.30	90122-0122
	6	.300 (7.62)	WM8158-ND	1.11	9.76	65.08	260.30	90122-0123
	8	.400 (10.16)	WM8159-ND	1.19	10.49	69.95	279.80	90122-0124
	10	.500 (12.70)	WM8160-ND	1.34	11.82	78.78	315.10	90122-0125
	12	.600 (15.24)	WM8161-ND	1.55	13.72	91.45	365.80	90122-0126
	14	.700 (17.78)	WM8162-ND	1.73	15.23	101.55	406.20	90122-0127
	16	.800 (20.32)	WM8163-ND	1.91	16.88	112.50	450.00	90122-0128
	18	.900 (22.86)	WM8164-ND	2.10	18.52	123.48	493.90	90122-0129
	20	1.000 (25.40)	WM8165-ND	2.27	20.03	133.55	534.20	90122-0130
	24	1.200 (30.48)	WM8166-ND	2.61	23.07	153.80	615.20	90122-0132
	26	1.300 (33.02)	WM8167-ND	2.91	25.66	171.05	684.20	90122-0133
	34	1.700 (43.18)	WM8169-ND	3.68	32.48	216.55	866.20	90122-0137
	40	2.000 (50.80)	WM8171-ND	4.47	39.44	262.90	1051.60	90122-0140
	50	2.500 (63.50)	WM8173-ND	6.23	54.99	366.58	1466.30	90122-0145
Gold Contacts with Tin Tails								
1	2	.200 (5.08)	WM8084-ND	.53	3.27	16.34	63.86	90120-0762
	3	.300 (7.62)	WM8085-ND	.49	4.31	28.75	115.00	90120-0763
	4	.400 (10.16)	WM8086-ND	.65	5.77	38.48	153.90	90120-0764
	5	.500 (12.70)	WM8087-ND	.71	6.26	41.75	167.00	90120-0765
	6	.600 (15.24)	WM8088-ND	.98	8.63	57.53	230.10	90120-0766
	7	.700 (17.78)	WM8089-ND	1.14	10.08	67.23	268.90	90120-0767
	8	.800 (20.32)	WM8090-ND	1.31	11.55	76.98	307.90	90120-0768

(Continued)

C-Grid III™ 2.54mm (.100”) Pitch

Headers *(Cont.)*

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
1	9	.900 (22.86)	WM8091-ND	1.47	13.01	86.70	346.80	90120-0769
	10	1.000 (25.40)	WM8092-ND	1.63	14.40	96.00	384.00	90120-0770
	11	1.100 (27.94)	WM8093-ND	1.80	15.84	105.60	422.40	90120-0771
	12	1.200 (30.48)	WM8094-ND	1.96	17.25	115.03	460.10	90120-0772
	40	4.000 (101.60)	WM8095-ND	6.52	57.55	383.65	1534.60	90120-0800
2	2	.200 (5.08)	WM8108-ND	.32	2.86	19.05	76.20	90121-0762
	3	.300 (7.62)	WM8109-ND	.49	4.31	28.75	115.00	90121-0763
	4	.400 (10.16)	WM8110-ND	.71	6.26	41.75	167.00	90121-0764
	5	.500 (12.70)	WM8111-ND	.89	7.84	52.25	209.00	90121-0765
	6	.600 (15.24)	WM8112-ND	1.07	9.42	62.78	251.10	90121-0766
	7	.700 (17.78)	WM8113-ND	1.25	11.00	73.33	293.30	90121-0767
	8	.800 (20.32)	WM8114-ND	1.42	12.52	83.45	333.80	90121-0768
	9	.900 (22.86)	WM8115-ND	1.59	14.04	93.60	374.40	90121-0769
	10	1.000 (25.40)	WM8116-ND	1.63	14.40	96.00	384.00	90121-0770
	12	1.200 (30.48)	WM8118-ND	2.13	18.78	125.18	500.70	90121-0772
	40	4.000 (101.60)	WM8119-ND	7.03	62.05	413.65	1654.60	90121-0800
3	4	.200 (5.08)	WM8138-ND	.68	6.01	40.05	160.20	90131-0762
	6	.300 (7.62)	WM8139-ND	1.02	8.97	59.80	239.20	90131-0763
	8	.400 (10.16)	WM8140-ND	1.36	12.01	80.05	320.20	90131-0764
	10	.500 (12.70)	WM8141-ND	1.70	14.98	99.85	399.40	90131-0765
	12	.600 (15.24)	WM8142-ND	2.03	17.95	119.68	478.70	90131-0766
	14	.700 (17.78)	WM8143-ND	2.38	20.99	139.90	559.60	90131-0767
	16	.800 (20.32)	WM8144-ND	2.71	23.95	159.68	638.70	90131-0768
	18	.900 (22.86)	WM8145-ND	3.74	32.99	219.95	879.80	90131-0769
	20	1.000 (25.40)	WM8146-ND	3.39	29.96	199.70	798.80	90131-0770

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
3	24	1.200 (30.48)	WM8148-ND	4.08	35.96	239.75	959.00	90131-0772
	26	1.300 (33.02)	WM8149-ND	4.41	38.94	259.58	1038.30	90131-0773
	28	1.400 (35.56)	WM8150-ND	4.81	42.47	283.13	1132.50	90131-0774
	30	1.500 (38.10)	WM8151-ND	5.12	45.19	301.25	1205.00	90131-0775
	40	2.000 (50.80)	WM8152-ND	6.79	59.91	399.43	1597.70	90131-0780
	50	2.500 (63.50)	WM8153-ND	8.48	74.83	498.88	1995.50	90131-0785
	80	4.000 (101.60)	WM8156-ND	13.59	119.89	799.28	3197.10	90131-0800
4	4	.200 (5.08)	WM8175-ND	.95	8.34	55.63	222.50	90122-0762
	6	.300 (7.62)	WM8176-ND	1.64	14.47	96.48	385.90	90122-0763
	8	.400 (10.16)	WM8177-ND	1.89	16.68	111.23	444.90	90122-0764
	10	.500 (12.70)	WM8178-ND	2.13	18.77	125.15	500.60	90122-0765
	12	.600 (15.24)	WM8179-ND	2.49	21.99	146.63	586.50	90122-0766
	14	.700 (17.78)	WM8180-ND	2.94	25.98	173.18	692.70	90122-0767
	16	.800 (20.32)	WM8181-ND	3.09	27.24	181.60	726.40	90122-0768
	20	1.000 (25.40)	WM8183-ND	3.71	32.74	218.25	873.00	90122-0770
	24	1.200 (30.48)	WM8185-ND	4.45	39.24	261.63	1046.50	90122-0772
	26	1.300 (33.02)	WM8186-ND	4.77	42.09	280.60	1122.40	90122-0773
	28	1.400 (35.56)	WM8187-ND	5.12	45.14	300.95	1203.80	90122-0774
	40	2.000 (50.80)	WM8189-ND	7.14	63.01	420.08	1680.30	90122-0780
	50	2.500 (63.50)	WM8190-ND	10.17	89.75	598.30	2393.20	90122-0785
	60	3.000 (76.20)	WM8191-ND	12.03	106.18	707.85	2831.40	90122-0790
	80	4.000 (101.60)	WM8192-ND	15.51	136.89	912.63	3650.50	90122-0800
			Shunt					
2 Position, .100” Tin			WM1034-ND	.29	2.53	16.85	67.40	90059-0007

Shrouded Headers

Specifications:

Electrical:

- Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000 MΩ minimum

Physical:

- Housing: Black glass-filled polyester • UL94V-0 • Operating Temperature: -55°C ~ 125°C • Contact: Copper Alloy, 0.64mm (.025”) square pins

Note: C-Grid III does not mate to C-Grid

Fig. 1 – Single Row, Right Angle

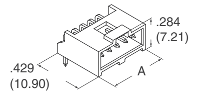

Fig. 2 – Single Row, Vertical

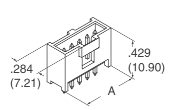

Fig. 3 – Dual Row, Vertical, Fully Loaded

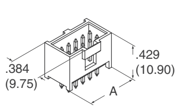

Fig. 4 – Dual Row, Right Angle Fully Loaded

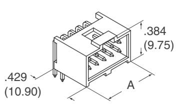

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
			Tin Contacts with Tin Tails					
1	2	.347 (8.81)	WM8193-ND	.78	6.87	45.80	183.20	90136-2102
	3	.447 (11.35)	WM8194-ND	.88	7.78	51.85	207.40	90136-2103
	4	.547 (13.89)	WM8195-ND	1.14	10.03	66.85	267.40	90136-2104
	5	.647 (16.43)	WM8196-ND	1.36	11.97	79.83	319.30	90136-2105
	6	.747 (18.97)	WM8197-ND	1.54	13.61	90.73	362.90	90136-2106
	8	.947 (24.05)	WM8199-ND	2.07	18.29	121.93	487.70	90136-2108
	9	1.047 (26.59)	WM8200-ND	.87	7.66	51.08	204.30	90136-2109
	10	1.147 (29.13)	WM8201-ND	.96	8.51	56.70	226.80	90136-2110
2	2	.347 (8.81)	WM8213-ND	.71	6.26	41.75	167.00	90136-1102
	3	.447 (11.35)	WM8214-ND	.73	6.44	42.93	171.70	90136-1103
	4	.547 (13.89)	WM8215-ND	1.00	8.81	58.75	235.00	90136-1104
	5	.647 (16.43)	WM8216-ND	1.11	9.78	65.23	260.90	90136-1105
	6	.747 (18.97)	WM8217-ND	1.27	11.18	74.55	298.20	90136-1106
	8	.947 (24.05)	WM8219-ND	1.67	14.77	98.45	393.80	90136-1108
	9	1.047 (26.59)	WM8220-ND	1.88	16.59	110.58	442.30	90136-1109
	10	1.147 (29.13)	WM8221-ND	2.00	17.62	117.48	469.90	90136-1110
3	6	.407 (10.34)	WM8233-ND	1.51	13.34	88.90	355.60	90130-1106
	8	.507 (12.88)	WM8234-ND	1.75	15.42	102.83	411.30	90130-1108
	10	.607 (15.42)	WM8235-ND	1.97	17.38	115.85	463.40	90130-1110
	12	.707 (17.96)	WM8236-ND	2.21	19.47	129.78	519.10	90130-1112
	14	.807 (20.50)	WM8237-ND	2.43	21.48	143.23	572.90	90130-1114
	16	.907 (23.04)	WM8238-ND	2.66	23.51	156.75	627.00	90130-1116
	18	1.007 (25.58)	WM8239-ND	3.23	28.50	190.03	760.10	90130-1118
	20	1.107 (28.12)	WM8240-ND	3.76	33.18	221.20	884.80	90130-1120
	24	1.307 (33.20)	WM8241-ND	4.31	38.05	253.65	1014.60	90130-1124
	26	1.407 (35.74)	WM8242-ND	4.67	41.21	274.73	1098.90	90130-1126
	30	1.607 (40.82)	WM8243-ND	5.39	47.52	316.83	1267.30	90130-1130
	34	1.807 (45.90)	WM8244-ND	6.00	52.96	353.08	1412.30	90130-1134
	40	2.107 (53.52)	WM8245-ND	6.76	59.66	397.75	1591.00	90130-1140
	50	2.607 (66.22)	WM8246-ND	7.16	63.20	421.35	1685.40	90130-1150
4	6	.407 (10.34)	WM8261-ND	1.65	14.60	97.33	389.30	90130-3106
	8	.507 (12.88)	WM8262-ND	1.91	16.81	112.08	448.30	90130-3108
	10	.607 (15.42)	WM8263-ND	2.16	19.08	127.23	508.90	90130-3110
	12	.707 (17.96)	WM8264-ND	2.41	21.30	142.03	568.10	90130-3112
	14	.807 (20.50)	WM8265-ND	2.67	23.58	157.18	628.70	90130-3114
	16	.907 (23.04)	WM8266-ND	2.92	25.79	171.90	687.60	90130-3116
	18	1.007 (25.58)	WM8267-ND	3.56	31.41	209.43	837.70	90130-3118
	20	1.107 (28.12)	WM8268-ND	3.87	34.13	227.50	910.00	90130-3120
	24	1.307 (33.20)	WM8269-ND	4.74	41.84	278.93	1115.70	90130-3124
	30	1.607 (40.82)	WM8271-ND	5.93	52.33	348.88	1395.50	90130-3130
	34	1.807 (45.90)	WM8272-ND	6.75	59.54	396.90	1587.60	90130-3134
	40	2.107 (53.52)	WM8273-ND	8.22	72.49	483.28	1933.10	90130-3140

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
			Gold Contacts with Tin Tails					
1	2	.347 (8.81)	WM8203-ND	.91	8.03	53.50	214.00	90136-2202
	3	.447 (11.35)	WM8204-ND	1.16	10.21	68.05	272.20	90136-2203
	4	.547 (13.89)	WM8205-ND	1.48	13.07	87.10	348.40	90136-2204
	5	.647 (16.43)	WM8206-ND	1.66	14.64	97.63	390.50	90136-2205
	6	.747 (18.97)	WM8207-ND	1.73	15.25	101.68	406.70	90136-2206
	8	.947 (24.05)	WM8209-ND	2.47	21.75	145.03	580.10	90136-2208
2	2	.347 (8.81)	WM8223-ND	.81	7.17	47.80	191.20	90136-1202
	3	.447 (11.35)	WM8224-ND	1.37	12.10	80.65	322.60	90136-1203
	4	.547 (13.89)	WM8225-ND	1.51	13.31	88.73	354.90	90136-1204
	5	.647 (16.43)	WM8226-ND	1.56	13.73	91.55	366.20	90136-1205
	6	.747 (18.97)	WM8227-ND	1.61	14.22	94.80	379.20	90136-1206
	7	.847 (21.51)	WM8228-ND	1.66	14.64	97.63	390.50	90136-1207
	8	.947 (24.05)	WM8229-ND	2.39	21.09	140.58	562.30	90136-1208
	9	1.047 (26.59)	WM8230-ND	2.54	22.37	149.13	596.50	90136-1209
	10	1.147 (29.13)	WM8231-ND	2.69	23.70	158.03	632.10	90136-1210
	12	1.347 (34.21)	WM8232-ND	3.22	28.41	189.40	757.60	90136-1212
3	6	.407 (10.34)	WM8247-ND	1.91	16.81	112.08	448.30	90130-1206
	8	.507 (12.88)	WM8248-ND	2.19	19.34	128.93	515.70	90130-1208
	10	.607 (15.42)	WM8249-ND	2.48	21.87	145.78	583.10	90130-1210
	12	.707 (17.96)	WM8250-ND	2.76	24.39	162.63	650.50	90130-1212
	14	.807 (20.50)	WM8251-ND	3.04	26.86	179.05	716.20	90130-1214
	16	.907 (23.04)	WM8252-ND	3.33	29.39	195.93	783.70	90130-1216
	18	1.007 (25.58)	WM8253-ND	4.06	35.84	238.90	955.60	90130-1218
	20	1.107 (28.12)	WM8254-ND	4.37	38.55	257.03	1028.10	90130-1220
	24	1.307 (33.20)	WM8255-ND	5.95	52.52	350.13	1400.50	90130-1224
	26	1.407 (35.74)	WM8256-ND	5.87	51.76	345.05	1380.20	90130-1226
	30	1.607 (40.82)	WM8257-ND	6.77	59.73	398.18	1592.70	90130-1230
	34	1.807 (45.90)	WM8258-ND	7.54	66.49	443.28	1773.10	90130-1234
	40	2.107 (53.52)	WM8259-ND	8.47	74.77	498.45	1993.80	90130-1240
	50	2.607 (66.22)	WM8260-ND	10.20	90.00	599.98	2399.90	90130-1250
4	6	.407 (10.34)	WM8275-ND	2.08	18.39	122.63	490.50	90130-3206
	8	.507 (12.88)	WM8276-ND	2.41	21.24	141.60	566.40	90130-3208
	10	.607 (15.42)	WM8277-ND	2.74	24.14	160.93	643.70	90130-3210
	12	.707 (17.96)	WM8278-ND	3.07	27.05	180.33	721.30	90130-3212
	14	.807 (20.50)	WM8279-ND	3.39	29.89	199.28	797.10	90130-3214
	16	.907 (23.04)	WM8280-ND	3.72	32.80	218.68	874.70	90130-3216
	18	1.007 (25.58)	WM8281-ND	4.52	39.88	265.88	1063.50	90130-3218
	20	1.107 (28.12)	WM8282-ND	4.98	43.93	292.85	1171.40	90130-3220
	24	1.307 (33.20)	WM8283-ND	5.97	52.65	350.98	1403.90	90130-3224
	40	2.107 (53.52)	WM8284-ND	9.33	82.35	549.00	2196.00	90130-3240

AMP MTA .100” (2.54mm) Receptacles and Post Headers

IDC Receptacles: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contact • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association

Performance Data: Voltage Rating: 250VAC **Current Rating:** 5A **Low-Level Resistance:** 6mΩ initial **Dielectric Withstanding Voltage:** 750VAC/1 minute **Insulation Resistance:** 5000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish: Receptacles:** UL94V-2 rated (unless otherwise noted), type 6/6 nylon (28AWG - Green; 26AWG - Blue; 24AWG - White; 22AWG - Red) **Contacts:** plating is tin or 30μ” gold

Replacement IDC Contacts: **Material and Finish:** Copper alloy, post tin plated; 30μ”

CST - 100 Crimp Contacts and Housings: • High current rating • Mates with MTA and similar competitive notched headers • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 4A maximum **Low-Level Resistance:** 6mΩ maximum initial, 10mΩ maximum final **Insulation Resistance:** 1000MΩ minimum initial, 100MΩ minimum final **Operating Temperature:** -55°C ~ 105°C **Contact Finish:** Selective gold, 30μ” gold over 127μ” nickel or bright tin-lead on entire contact **Wire Range:** 22-26AWG **Maximum Ins. Diameter:** .065

Keying Plug with Carrier Strip (10 plugs per strip): **Material:** UL94V-2 rated, type 6/6 nylon, natural color

LED Connectors: Designed to mate with .36mm ~ .51mm diameter posts or square leads **Material and Finish: Receptacles:** UL94V-2 rated, type 6/6 nylon (28AWG - Green; 26AWG - Blue; 24AWG - White; 22AWG - Red) **Contacts:** Phosphor bronze, post tin plated, 30μ”

Replacement LED Contacts: **Material and Finish:** Copper alloy, post tin plated; 30μ”

Post Headers: **Material and Finish:** Polyester UL94V-0 rated, natural or black **Post Plating:** tin or 30μ” gold

Fig. 1 — Receptacle

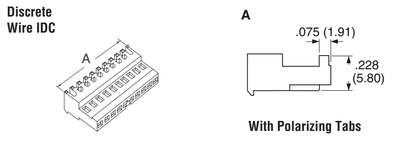

Fig. 2 — IDC and LED Contacts

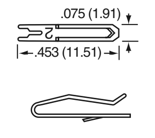

Fig. 3 — CST-100, CST-100 II Housing

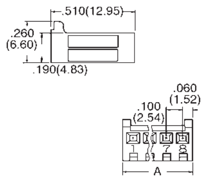

Fig. 4 — CST-100, CST-100 II Crimp Contact

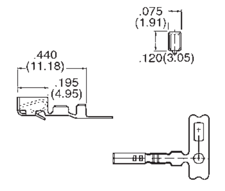

Fig. 5 — Keying Plug

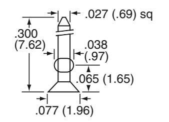

Fig. 6 — Strain Relief Cover - Closed End

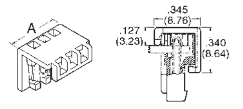

Fig. 7 — Dust Cover - Closed End

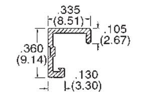

Fig. 8 — Strain Relief Cover - Feed-Thru

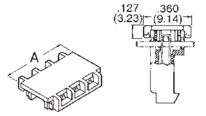

Fig. 9 — Dust Cover - Feed-Thru

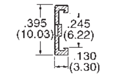

Fig. 10

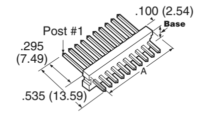

Fig. 11

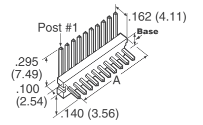

Fig. 12

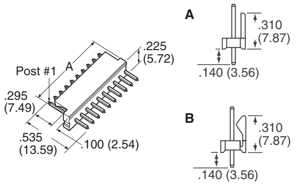

Fig. 13

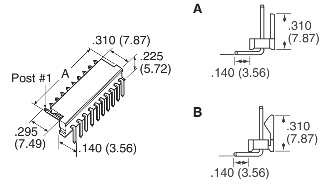

Fig. 14

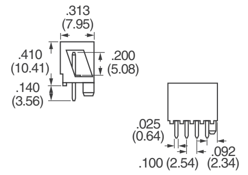

Fig. 15

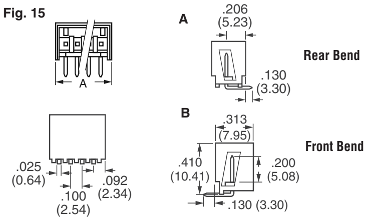

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Receptacles, .100” (2.54mm) Centers							
1	Closed End with Lock, without Polarizing Tabs, 28AWG Green, Tin Plated	2	.200 (5.08)	A30994-ND	.17	2.44	3-640443-2
		3	.300 (7.62)	A30995-ND	.17	2.96	3-640443-3
		4	.400 (10.16)	A30996-ND	.23	5.15	3-640443-4
		5	.500 (12.70)	A30997-ND	.29	6.56	3-640443-5
		6	.600 (15.24)	A30998-ND	.33	7.55	3-640443-6
		7	.700 (17.78)	A30999-ND	.39	8.82	3-640443-7
		8	.800 (20.32)	A31000-ND	.44	10.05	3-640443-8
		9	.900 (22.86)	A31001-ND	1.34	30.35	3-640443-9
		10	1.000 (25.40)	A30951-ND	.56	12.62	4-640443-0
		11	1.100 (27.94)	A30952-ND	1.64	37.10	4-640443-1
		12	1.200 (30.48)	A30953-ND	.72	16.19	4-640443-2
		13	1.300 (33.02)	A30954-ND	1.94	43.85	4-640443-3
		14	1.400 (35.56)	A30955-ND	2.09	47.22	4-640443-4
		15	1.500 (38.10)	A30956-ND	1.17	26.55	4-640443-5
1A	Closed End with Lock, with Polarizing Tabs, 28AWG, Green, Tin Plated	2	.200 (5.08)	A31031-ND	.17	2.44	3-643816-2
		3	.300 (7.62)	A31032-ND	.20	2.96	3-643816-3
		4	.400 (10.16)	A31033-ND	.23	5.15	3-643816-4
		5	.500 (12.70)	A31034-ND	.29	6.56	3-643816-5
		6	.600 (15.24)	A31035-ND	.33	7.55	3-643816-6
		7	.700 (17.78)	A31036-ND	.39	8.82	3-643816-7
		10	1.000 (25.40)	A30970-ND	.56	12.62	4-643816-0
		12	1.200 (30.48)	A30971-ND	.72	16.19	4-643816-2
		15	1.500 (38.10)	A30972-ND	1.17	26.55	4-643816-5
1	Feed-Thru with Lock, without Polarizing Tabs, 28AWG Green, Tin Plated	2	.200 (5.08)	A30814-ND	.17	3.88	3-640623-2
		3	.300 (7.62)	A30815-ND	.23	5.13	3-640623-3
		4	.400 (10.16)	A30816-ND	.25	5.66	3-640623-4
		5	.500 (12.70)	A30817-ND	.29	6.56	3-640623-5
		6	.600 (15.24)	A30818-ND	.33	7.55	3-640623-6
		7	.700 (17.78)	A30819-ND	.39	8.82	3-640623-7
		8	.800 (20.32)	A30820-ND	.44	10.05	3-640623-8
		9	.900 (22.86)	A30821-ND	1.34	30.35	3-640623-9
		10	1.000 (25.40)	A30802-ND	.56	12.62	4-640623-0
		11	1.100 (27.94)	A30803-ND	1.64	37.10	4-640623-1
		12	1.200 (30.48)	A30804-ND	.72	16.19	4-640623-2
		13	1.300 (33.02)	A30805-ND	1.94	43.85	4-640623-3
		14	1.400 (35.56)	A30806-ND	2.09	47.22	4-640623-4
		15	1.500 (38.10)	A30807-ND	1.17	26.55	4-640623-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 28AWG Green, Tin Plated	2	.200 (5.08)	A31045-ND	.17	3.88	3-644565-2
		3	.300 (7.62)	A31046-ND	.23	5.14	3-644565-3
		4	.400 (10.16)	A31047-ND	.24	5.46	3-644565-4
		5	.500 (12.70)	A31048-ND	.29	6.56	3-644565-5
		6	.600 (15.24)	A31049-ND	.33	7.55	3-644565-6
		7	.700 (17.78)	A31050-ND	.39	8.82	3-644565-7
		8	.800 (20.32)	A31051-ND	.44	10.05	3-644565-8
		10	1.000 (25.40)	A30975-ND	.56	12.62	4-644565-0
		12	1.200 (30.48)	A30976-ND	.72	16.19	4-644565-2
		15	1.500 (38.10)	A30977-ND	1.17	26.55	4-644565-5
1	Closed End with Lock, without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A30986-ND	.17	2.44	3-640442-2
		3	.300 (7.62)	A30987-ND	.17	2.96	3-640442-3
		4	.400 (10.16)	A30988-ND	.23	5.15	3-640442-4
		5	.500 (12.70)	A30989-ND	.29	6.56	3-640442-5
		6	.600 (15.24)	A30990-ND	.33	7.55	3-640442-6
		7	.700 (17.78)	A30991-ND	.39	8.82	3-640442-7
		8	.800 (20.32)	A30992-ND	.44	10.05	3-640442-8
		9	.900 (22.86)	A30993-ND	1.34	30.35	3-640442-9
		10	1.000 (25.40)	A30945-ND	.56	12.62	4-640442-0
		11	1.100 (27.94)	A30946-ND	1.64	37.10	4-640442-1
		12	1.200 (30.48)	A30947-ND	.72	16.19	4-640442-2
		13	1.300 (33.02)	A30948-ND	1.94	43.85	4-640442-3
		14	1.400 (35.56)	A30949-ND	2.09	47.22	4-640442-4
		15	1.500 (38.10)	A30950-ND	1.17	26.55	4-640442-5
1A	Closed End with Lock, with Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A31024-ND	.17	2.44	3-643815-2
		3	.300 (7.62)	A31025-ND	.17	2.96	3-643815-3
		4	.400 (10.16)	A31026-ND	.23	5.15	3-643815-4
		5	.500 (12.70)	A31027-ND	.29	6.56	3-643815-5
		6	.600 (15.24)	A31028-ND	.33	7.55	3-643815-6
		7	.700 (17.78)	A31029-ND	.39	8.82	3-643815-7
		8	.800 (20.32)	A31030-ND	.44	10.05	3-643815-8
		10	1.000 (25.40)	A30967-ND	.56	12.62	4-643815-0
		12	1.200 (30.48)	A30968-ND	.72	16.19	4-643815-2
		13	1.300 (33.02)	A30810-ND†	.83	18.81	4-644313-3
		15	1.500 (38.10)	A30969-ND	1.17	26.55	4-643815-5
1	Closed End, without Lock and without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.300 (7.62)	A99621-ND	.46	10.46	3-647002-2
		3	.400 (10.16)	A99622-ND	.57	12.99	3-647002-3
		4	.500 (12.70)	A99623-ND	.73	16.42	3-647002-4
		5	.600 (15.24)	A99624-ND	.83	18.84	3-647002-5
		6	.700 (17.78)	A99625-ND	.92	20.90	3-647002-6
		7	.800 (20.32)	A99626-ND	1.04	23.62	3-647002-7
		8	.900 (22.86)	A99627-ND	1.17	26.46	3-647002-8
		10	1.100 (27.94)	A99609-ND	1.34	30.45	4-647002-0
		12	1.300 (33.02)	A99610-ND	1.64	37.05	4-647002-2
1	Feed-Thru with Lock, without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A31009-ND	.18	4.04	3-640622-2
		3	.300 (7.62)	A31010-ND	.24	5.33	3-640622-3
		4	.400 (10.16)	A31011-ND	.25	5.62	3-640622-4
		5	.500 (12.70)	A31012-ND	.29	6.56	3-640622-5
		6	.600 (15.24)	A31013-ND	.33	7.55	3-640622-6
		8	.800 (20.32)	A31015-ND	.44	10.05	3-640622-8
		9	.900 (22.86)	A31016-ND	1.34	30.35	3-640622-9
		10	1.000 (25.40)	A30957-ND	1.49	33.73	4-640622-0
		12	1.200 (30.48)	A30959-ND	.72	16.19	4-640622-2
		13	1.300 (33.02)	A30813-ND†	.89	20.26	4-644577-3
		14	1.400 (35.56)	A30961-ND	2.09	47.22	4-640622-4
		15	1.500 (38.10)	A30962-ND	1.17	26.55	4-640622-5

† UL94V-0 - Black Housing

(Continued)

AMP MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1A	Feed-Thru with Lock, with Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A31038-ND	.18	3.98	3-644564-2
		3	.300 (7.62)	A31039-ND	.24	5.33	3-644564-3
		4	.400 (10.16)	A31040-ND	.25	5.66	3-644564-4
		5	.500 (12.70)	A31041-ND	.29	6.56	3-644564-5
		6	.600 (15.24)	A31042-ND	.33	7.55	3-644564-6
		8	.800 (20.32)	A31044-ND	.44	10.05	3-644564-8
		12	1.200 (30.48)	A30973-ND	.72	16.19	4-644564-2
		15	1.500 (38.10)	A30974-ND	1.17	26.55	4-644564-5
1	Closed End with Lock, without Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A30978-ND	.17	2.44	3-640441-2
		3	.300 (7.62)	A30979-ND	.17	2.96	3-640441-3
		4	.400 (10.16)	A30980-ND	.18	3.14	3-640441-4
		5	.500 (12.70)	A30981-ND	.29	6.56	3-640441-5
		6	.600 (15.24)	A30982-ND	.33	7.55	3-640441-6
		7	.700 (17.78)	A30983-ND	.39	8.82	3-640441-7
		8	.800 (20.32)	A30984-ND	.44	10.05	3-640441-8
		9	.900 (22.86)	A30985-ND	1.34	30.35	3-640441-9
		10	1.000 (25.40)	A30939-ND	.56	12.62	4-640441-0
		11	1.100 (27.94)	A30940-ND	1.64	37.10	4-640441-1
		12	1.200 (30.48)	A30941-ND	.72	16.19	4-640441-2
		13	1.300 (33.02)	A30942-ND	1.94	43.85	4-640441-3
		14	1.400 (35.56)	A30943-ND	2.09	47.22	4-640441-4
		15	1.500 (38.10)	A30944-ND	1.17	26.55	4-640441-5
1A	Closed End with Locks, with Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A31017-ND	.17	2.44	3-643814-2
		3	.300 (7.62)	A31018-ND	.17	2.96	3-643814-3
		4	.400 (10.16)	A31019-ND	.23	5.15	3-643814-4
		5	.500 (12.70)	A31020-ND	.29	6.56	3-643814-5
		6	.600 (15.24)	A31021-ND	.33	7.55	3-643814-6
		7	.700 (17.78)	A31022-ND	.39	8.82	3-643814-7
		8	.800 (20.32)	A31023-ND	.44	10.05	3-643814-8
		10	1.000 (25.40)	A30963-ND	.56	12.62	4-643814-0
		12	1.200 (30.48)	A30964-ND	.72	16.19	4-643814-2
		13	1.300 (33.02)	A30809-ND†	.89	20.26	4-644312-3
		14	1.400 (35.56)	A99628-ND	2.09	47.22	4-643814-4
		15	1.500 (38.10)	A30965-ND	1.17	26.55	4-643814-5
		16	1.600 (40.64)	A30966-ND	2.98	67.46	4-643814-6
1	Feed-Thru with Lock, without Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A31002-ND	.18	4.00	3-640621-2
		3	.300 (7.62)	A31003-ND	.22	4.87	3-640621-3
		4	.400 (10.16)	A31004-ND	.23	5.15	3-640621-4
		5	.500 (12.70)	A31005-ND	.29	6.56	3-640621-5
		6	.600 (15.24)	A31006-ND	.33	7.55	3-640621-6
		7	.700 (17.78)	A31007-ND	.39	8.82	3-640621-7
		8	.800 (20.32)	A31008-ND	.44	10.05	3-640621-8
		9	.900 (22.86)	A31096-ND	1.34	30.35	3-640621-9
		10	1.000 (25.40)	A31064-ND	.56	12.62	4-640621-0
		11	1.100 (27.94)	A31065-ND	1.64	37.10	4-640621-1
		12	1.200 (30.48)	A31066-ND	.72	16.19	4-640621-2
		13	1.300 (33.02)	A31067-ND	1.94	43.85	4-640621-3
		14	1.400 (35.56)	A31068-ND	2.09	47.22	4-640621-4
		15	1.500 (38.10)	A31069-ND	1.17	26.55	4-640621-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A31127-ND	.17	3.87	3-644563-2
		3	.300 (7.62)	A31128-ND	.22	5.08	3-644563-3
		4	.400 (10.16)	A31129-ND	.23	5.13	3-644563-4
		5	.500 (12.70)	A31130-ND	.29	6.56	3-644563-5
		6	.600 (15.24)	A31131-ND	.33	7.55	3-644563-6
		7	.700 (17.78)	A31132-ND	.39	8.82	3-644563-7
		8	.800 (20.32)	A31133-ND	.44	10.05	3-644563-8
		10	1.000 (25.40)	A31077-ND	.56	12.62	4-644563-0
		12	1.200 (30.48)	A31078-ND	.72	16.19	4-644563-2
		13	1.300 (33.02)	A30826-ND†	.83	18.81	4-644579-3
		15	1.500 (38.10)	A31079-ND	1.17	26.55	4-644563-5
1	Closed End with Lock, without Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A31080-ND	.17	2.44	3-640440-2
		3	.300 (7.62)	A31081-ND	.17	2.96	3-640440-3
		4	.400 (10.16)	A31082-ND	.23	5.15	3-640440-4
		5	.500 (12.70)	A31083-ND	.29	6.56	3-640440-5
		6	.600 (15.24)	A31084-ND	.33	7.55	3-640440-6
		7	.700 (17.78)	A31085-ND	.39	8.82	3-640440-7
		8	.800 (20.32)	A31086-ND	.44	10.05	3-640440-8
		9	.900 (22.86)	A31087-ND	1.34	30.35	3-640440-9
		10	1.000 (25.40)	A31052-ND	.56	12.62	4-640440-0
		11	1.100 (27.94)	A31053-ND	1.64	37.10	4-640440-1
		12	1.200 (30.48)	A31054-ND	.72	16.19	4-640440-2
		13	1.300 (33.02)	A31055-ND	1.94	43.85	4-640440-3
		14	1.400 (35.56)	A31056-ND	2.09	47.22	4-640440-4
		15	1.500 (38.10)	A31057-ND	1.17	26.55	4-640440-5
1A	Closed End with Lock, with Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A31107-ND	.17	2.44	3-643813-2
		2	.200 (5.08)	A30841-ND†	.36	8.22	3-644083-2
		3	.300 (7.62)	A30842-ND†	.54	12.32	3-644083-3
		4	.400 (10.16)	A31108-ND	.23	5.15	3-643813-4
		5	.500 (12.70)	A31109-ND	.29	6.56	3-643813-5
		7	.700 (17.78)	A31110-ND	.39	8.82	3-643813-7
		8	.800 (20.32)	A31111-ND	.44	10.05	3-643813-8
		10	1.000 (25.40)	A31070-ND	.56	12.62	4-643813-0
		11	1.100 (27.94)	A31071-ND	1.64	37.10	4-643813-1
		12	1.200 (30.48)	A31072-ND	.72	16.19	4-643813-2
		13	1.300 (33.02)	A30822-ND†	.89	20.26	4-644083-3
		15	1.500 (38.10)	A31073-ND	1.17	26.55	4-643813-5

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1	Feed -Thru with Lock, without Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A31088-ND	.18	4.02	3-640620-2
		3	.300 (7.62)	A31089-ND	.19	4.39	3-640620-3
		4	.400 (10.16)	A31090-ND	.23	5.15	3-640620-4
		5	.500 (12.70)	A31091-ND	.29	6.56	3-640620-5
		6	.600 (15.24)	A31092-ND	.33	7.55	3-640620-6
		7	.700 (17.78)	A31093-ND	.39	8.82	3-640620-7
		8	.800 (20.32)	A31094-ND	.44	10.05	3-640620-8
		9	.900 (22.86)	A31095-ND	1.34	30.35	3-640620-9
		10	1.000 (25.40)	A31058-ND	.56	12.62	4-640620-0
		11	1.100 (27.94)	A31059-ND	1.64	37.10	4-640620-1
		12	1.200 (30.48)	A31060-ND	.72	16.19	4-640620-2
		13	1.300 (33.02)	A31061-ND	1.94	43.85	4-640620-3
		13	1.300 (33.02)	A30823-ND†	.89	20.26	4-644575-3
		14	1.400 (35.56)	A31062-ND	2.09	47.22	4-640620-4
		15	1.500 (38.10)	A31063-ND	1.17	26.55	4-640620-5
1A	Feed -Thru with Lock, with Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A31120-ND	.20	4.00	3-644540-2
		3	.300 (7.62)	A31121-ND	.23	5.21	3-644540-3
		4	.400 (10.16)	A31122-ND	.24	5.50	3-644540-4
		5	.500 (12.70)	A31123-ND	.29	6.56	3-644540-5
		6	.600 (15.24)	A31124-ND	.33	7.55	3-644540-6
		7	.700 (17.78)	A31125-ND	.39	8.82	3-644540-7
		8	.800 (20.32)	A31126-ND	.44	10.05	3-644540-8
		10	1.000 (25.40)	A31074-ND	.56	12.62	4-644540-0
		12	1.200 (30.48)	A31075-ND	.72	16.19	4-644540-2
		13	1.300 (33.02)	A30825-ND†	.89	20.26	4-644578-3
		15	1.500 (38.10)	A31076-ND	1.17	26.55	4-644540-5
Replacement IDC Contacts							
2	Std. 28AWG, Tin Plated	—	—	A31100-ND	1.23/25	1.75/50	640639-2
	Std. 26AWG, Tin Plated	—	—	A31099-ND	2.22/25	3.14/50	640638-3
	Std. 24AWG, Tin Plated	—	—	A31098-ND	2.22/25	3.14/50	640637-3
	Std. 22AWG, Tin Plated	—	—	A31097-ND	2.22/25	3.14/50	640636-3
CST-100 Crimp Housing (Contacts Sold Separately)							
3	22-26AWG Natural (Not to be used with MTA .100 Shrouded Header)	2	.220 (5.59)	A19490-ND	.20	2.15	770602-2
		3	.320 (8.13)	A19491-ND	.20	3.22	770602-3
		4	.420 (10.67)	A19492-ND	.21	4.29	770602-4
		5	.520 (13.21)	A19493-ND	.24	5.36	770602-5
		6	.620 (15.75)	A19494-ND	.28	6.43	770602-6
		7	.720 (18.29)	A19495-ND	.37	8.32	770602-7
		8	.820 (20.83)	A19496-ND	.42	9.51	770602-8
		9	.920 (23.37)	A19497-ND	.47	10.70	770602-9
		10	1.020 (25.91)	A19498-ND	.58	13.04	1-770602-0
		11	1.120 (28.45)	A19499-ND	.58	13.08	1-770602-1
		12	1.220 (30.99)	A19500-ND	.63	14.27	1-770602-2
		13	1.320 (33.53)	A19510-ND	.68	15.46	1-770602-3
		14	1.420 (36.07)	A19511-ND	.74	16.64	1-770602-4
		15	1.520 (38.61)	A23961-ND	.79	17.83	1-770602-5
CST-100 II Crimp Housing (Contacts Sold Separately)							
3	White (Not to be used with MTA .100 Shrouded Header)	2	.220 (5.59)	A99613-ND	.08	1.81	1375820-2
		3	.320 (8.13)	A99614-ND	.13	2.97	1375820-3
		4	.420 (10.67)	A99615-ND	.16	3.57	1375820-4
		5	.520 (13.21)	A99616-ND	.22	4.95	1375820-5
		6	.620 (15.75)	A99617-ND	.26	5.88	1375820-6
		8	.820 (20.83)	A99618-ND	.35	7.84	1375820-8
		9	.920 (23.37)	A99619-ND	.43	9.69	1375820-9
		10	1.020 (25.91)	A99611-ND	.47	10.75	1-1375820-0
		12	1.220 (30.99)	A99612-ND	.57	12.92	1-1375820-2
CST-100 Crimp Contacts (26 ~ 22AWG)							
4	Tin Plated, Loose	—	—	A19520-ND	2.58/25	4.59/50	770666-1
	Gold Plated, Loose	—	—	A23962-ND	10.45/25	18.58/50	770666-2
	Gold Plated, Strip	—	—	A23962CT-ND	38.13/100	174.76/500	770601-2
	Gold Plated, Strip	—	—	A23962TR-ND	1048.58/5,500		770601-2
CST-100 II Crimp Contacts (26 ~ 22AWG)							
4	Tin Plated, Loose	—	—	A99620-ND	.08	1.81	1445336-1
LED Receptacles (mate with .36-.51mm diameter posts) .100” (2.54mm) Centers							
1	Closed End with Lock, without Polarizing Tabs, 28AWG Green, Tin Plated	2	.200 (5.08)	A30831-ND	.17	2.44	3-641537-2
		3	.300 (7.62)	A30832-ND	.17	2.96	3-641537-3
	Closed End with Lock, without Polarizing Tabs, 22AWG Red, Tin Plated	8	.800 (20.32)	A34823-ND	.44	10.05	3-641534-8
	Feed-Thru with Lock, without Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A30835-ND	.18	4.00	3-641654-2
		3	.300 (7.62)	A30836-ND	.22	5.07	3-641654-3
	Closed End with Lock, without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A31101-ND	.19	2.44	3-641536-2
		3	.300 (7.62)	A31102-ND	.20	2.96	3-641536-3
	Closed End with Lock, without Polarizing Tabs, 24AWG White, Tin Plated	2	.200 (5.08)	A30829-ND	.17	2.44	3-641535-2
		3	.300 (7.62)	A30830-ND	.20	2.96	3-641535-3
		5	.500 (12.70)	A34824-ND	.29	6.56	3-641535-5
		6	.600 (15.24)	A34825-ND	.33	7.55	3-641535-6
	Feed-Thru with Lock, without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.200 (5.08)	A30837-ND	.18	4.00	3-641655-2
		3	.300 (7.62)	A30838-ND	.24	5.33	3-641655-3
1A	Closed End with Lock, with Polarizing Tabs, 24AWG, White, Tin Plated	2	.200 (5.08)	A30843-ND	.19	2.44	3-644795-2
1	Feed-Thru with Lock, without Polarizing Tabs, 28AWG Green, Tin Plated	2	.200 (5.08)	A30839-ND	.17	3.87	3-641656-2
		3	.300 (7.62)	A30840-ND	.23	5.12	3-641656-3
	Closed End with Lock, without Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A30827-ND	.17	2.44	3-641534-2
		3	.300 (7.62)	A30828-ND	.17	2.96	3-641534-3
	Feed-Thru with Lock, without Polarizing Tabs, 22AWG Red, Tin Plated	2	.200 (5.08)	A30833-ND	.18	4.01	3-641653-2
		3	.300 (7.62)	A30834-ND	.33	7.44	3-641653-3
Replacement LED Contacts							
2	26AWG, Tin Plated	—	—	A31105-ND	2.49/25	4.43/50	641645-1
	22AWG, Tin Plated	—	—	A31103-ND	2.49/25	4.43/50	641643-1

† UL94V-0 - Black Housing

(Continued)

AMP MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
Keying Plugs with Carrier Strip							
5	10 Plugs per Strip	—	—	A19310-ND	.72	16.20	641994-1
Accessories, .100							
6	Closed End, Strain Relief Covers, White	2	.200 (5.08)	A19230-ND	.30	6.70	643075-2
		3	.300 (7.62)	A19231-ND	.67	15.12	643075-3
		4	.400 (10.16)	A19232-ND	.32	7.29	643075-4
		5	.500 (12.70)	A19233-ND	.68	15.22	643075-5
		6	.600 (15.24)	A19234-ND	.35	7.81	643075-6
		7	.700 (17.78)	A19235-ND	.70	15.82	643075-7
		8	.800 (20.32)	A19236-ND	.71	15.87	643075-8
		9	.900 (22.86)	A19237-ND	.74	16.69	643075-9
		10	1.000 (25.40)	A19238-ND	.71	15.97	1-643075-0
		11	1.100 (27.94)	A19239-ND	.75	16.79	1-643075-1
		12	1.200 (30.48)	A19240-ND	.75	16.85	1-643075-2
		13	1.300 (33.02)	A19241-ND	.75	16.90	1-643075-3
		14	1.400 (35.56)	A19242-ND	.75	16.95	1-643075-4
		15	1.500 (38.10)	A23892-ND	.76	17.00	1-643075-5
7	Closed End, Dust Covers, Natural	2	—	A19250-ND	.08	1.90	640550-2
		3	—	A19251-ND	.31	2.35	640550-3
		4	—	A19252-ND	.19	3.04	640550-4
		5	—	A19253-ND	.33	3.52	640550-5
		6	—	A19254-ND	.21	4.27	640550-6
		7	—	A19255-ND	.21	4.77	640550-7
		8	—	A19256-ND	.24	5.33	640550-8
		9	—	A19257-ND	.23	5.13	640550-9
		10	—	A19258-ND	.28	6.25	1-640550-0
		11	—	A19259-ND	.30	6.71	1-640550-1
		12	—	A19260-ND	.33	7.46	1-640550-2
		13	—	A19261-ND	.35	7.84	1-640550-3
		14	—	A19262-ND	.37	8.42	1-640550-4
		15	—	A23893-ND	.40	8.90	1-640550-5
8	Feed-Thru, Strain Relief Covers, White	2	.200 (5.08)	A19270-ND	.28	6.40	643077-2
		3	.300 (7.62)	A19271-ND	.37	8.25	643077-3
		4	.400 (10.16)	A19272-ND	.49	11.00	643077-4
		5	.500 (12.70)	A19273-ND	.61	13.75	643077-5
		6	.600 (15.24)	A19274-ND	.65	14.63	643077-6
		7	.700 (17.78)	A19275-ND	.67	15.06	643077-7
		8	.800 (20.32)	A19276-ND	.71	15.87	643077-8
		9	.900 (22.86)	A19277-ND	.71	15.92	643077-9
		10	1.000 (25.40)	A19278-ND	.74	16.74	1-643077-0
		11	1.100 (27.94)	A19279-ND	.75	16.79	1-643077-1
		12	1.200 (30.48)	A19280-ND	.75	16.85	1-643077-2
		13	1.300 (33.02)	A19281-ND	.81	18.20	1-643077-3
		14	1.400 (35.56)	A19282-ND	.81	18.25	1-643077-4
9	Feed-Thru, Dust Covers, Natural	3	—	A19291-ND	.31	2.35	640642-3
		4	—	A19292-ND	.33	3.04	640642-4
		5	—	A19293-ND	.31	3.35	640642-5
		6	—	A19294-ND	.21	4.27	640642-6
		7	—	A19295-ND	.21	4.77	640642-7
		8	—	A19296-ND	.24	5.33	640642-8
		9	—	A19297-ND	.22	4.96	640642-9
		10	—	A19298-ND	.28	6.25	1-640642-0
		11	—	A19299-ND	.30	6.71	1-640642-1
		13	—	A19301-ND	.35	7.84	1-640642-3
		14	—	A19302-ND	.37	8.42	1-640642-4
		15	—	A23895-ND	.40	8.90	1-640642-5
Post Headers, .100” (2.54mm) Centers (.200” (5.08mm) Wide Base)							
10	Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1911-ND	.33	6.30	640452-2
		3	.300 (7.62)	A19330-ND	.43	6.44	640452-3
		4	.400 (10.16)	A1912-ND	.38	8.59	640452-4
		5	.500 (12.70)	A19331-ND	.54	12.12	640452-5
		6	.600 (15.24)	A1913-ND	.59	13.22	640452-6
		7	.700 (17.78)	A19332-ND	.69	15.43	640452-7
		8	.800 (20.32)	A1914-ND	.78	17.63	640452-8
		9	.900 (22.86)	A19333-ND	.88	19.83	640452-9
		10	1.000 (25.40)	A1915-ND	.98	22.04	1-640452-0
		15	1.500 (38.10)	A24931-ND	1.84	41.32	1-640452-5
11	Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1916-ND	.33	4.47	640453-2
		3	.300 (7.62)	A19340-ND	.35	6.70	640453-3
		4	.400 (10.16)	A1917-ND	.40	8.93	640453-4
		5	.500 (12.70)	A19341-ND	.56	12.60	640453-5
		6	.600 (15.24)	A1918-ND	.61	13.75	640453-6
		7	.700 (17.78)	A19342-ND	.71	16.04	640453-7
		8	.800 (20.32)	A1919-ND	.81	18.33	640453-8
		9	.900 (22.86)	A19343-ND	.81	18.27	640453-9
		10	1.000 (25.40)	A1920-ND	1.02	22.92	1-640453-0
		12	1.200 (30.48)	A23927-ND	1.22	27.50	1-640453-2
		15	1.500 (38.10)	A23896-ND	1.91	42.97	1-640453-5

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
Narrow Base Post Headers, .100” (2.54mm) Centers (2.34mm Wide Base)							
10	Straight Post, .64 (.025) Square, without Retentive Legs, Tin Plated	2	.188 (4.78)	A31112-ND	.21	2.98	3-644456-2
		3	.288 (7.32)	A31113-ND	.22	3.72	3-644456-3
		4	.388 (9.86)	A31114-ND	.20	4.46	3-644456-4
		5	.488 (12.40)	A31115-ND	.26	5.95	3-644456-5
		6	.588 (14.94)	A31116-ND	.29	6.48	3-644456-6
		7	.688 (17.48)	A31117-ND	.36	8.18	3-644456-7
		8	.788 (20.02)	A31118-ND	.38	8.64	3-644456-8
		9	.888 (22.56)	A31119-ND	.41	9.36	3-644456-9
		10	.988 (25.10)	A30844-ND	.56	12.56	4-644456-0
		11	1.088 (27.64)	A30845-ND	.62	14.04	4-644456-1
		13	1.288 (32.72)	A30847-ND	.74	16.67	4-644456-3
		14	1.388 (35.26)	A30848-ND	.88	19.85	4-644456-4
	Straight Post, .64 (.025) Square, with Retentive Legs, Tin Plated	2	.188 (4.78)	A30916-ND	.25	5.56	3-644695-2
		3	.288 (7.32)	A30917-ND	.33	7.43	3-644695-3
		4	.388 (9.86)	A30918-ND	.47	10.67	3-644695-4
		5	.488 (12.40)	A30919-ND	.59	13.33	3-644695-5
		6	.588 (14.94)	A30920-ND	.65	14.54	3-644695-6
		8	.788 (20.02)	A30922-ND	.86	19.39	3-644695-8
		9	.888 (22.56)	A30923-ND	.97	21.82	3-644695-9
		10	.988 (25.10)	A30869-ND	1.08	24.24	4-644695-0
		11	1.088 (27.64)	A30870-ND	1.10	24.76	4-644695-1
		12	1.188 (30.18)	A30871-ND	1.15	25.76	4-644695-2
		14	1.388 (35.26)	A30873-ND	1.40	31.51	4-644695-4
11	Right Angle Post, .64 (.025) Square, without Retentive Legs, Tin Plated	2	.188 (4.78)	A30884-ND	.20	4.47	3-644457-2
		3	.288 (7.32)	A30885-ND	.31	7.02	3-644457-3
		4	.388 (9.86)	A30886-ND	.38	8.64	3-644457-4
		8	.788 (20.02)	A30890-ND	.70	15.71	3-644457-8
		10	.988 (25.10)	A30849-ND	1.02	22.92	4-644457-0
		11	1.088 (27.64)	A30850-ND	1.04	23.41	4-644457-1
		12	1.188 (30.18)	A30851-ND	1.13	25.54	4-644457-2
		14	1.388 (35.26)	A30853-ND	1.32	29.79	4-644457-4
	Right Angle Post, .64 (.025) Square, with Retentive Legs, Tin Plated	10	.988 (25.10)	A30864-ND	1.12	25.21	4-644694-0
		12	1.188 (30.18)	A30866-ND	1.25	28.09	4-644694-2
		13	1.288 (32.72)	A30867-ND	1.35	30.43	4-644694-3
		14	1.388 (35.26)	A30868-ND	1.39	31.26	4-644694-4
Polarized Headers, .100” (2.54mm) Centers							
12A	Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19423-ND	.31	2.05	640454-2
		3	.300 (7.62)	A19430-ND	.29	2.64	640454-3
		4	.400 (10.16)	A19431-ND	.29	3.36	640454-4
		5	.500 (12.70)	A19432-ND	.32	4.50	640454-5
		6	.600 (15.24)	A19433-ND	.32	5.14	640454-6
		7	.700 (17.78)	A19434-ND	.34	6.10	640454-7
		8	.800 (20.32)	A19435-ND	.34	6.55	640454-8
		9	.900 (22.86)	A19436-ND	.43	9.71	640454-9
		10	1.000 (25.40)	A19437-ND	.43	9.73	1-640454-0
		11	1.100 (27.94)	A19438-ND	.60	13.47	1-640454-1
		12	1.200 (30.48)	A19439-ND	.63	14.27	1-640454-2
		13	1.300 (33.02)	A19440-ND	.64	14.32	1-640454-3
		14	1.400 (35.56)	A19441-ND	.64	14.36	1-640454-4
		15	1.500 (38.10)	A23929-ND	.64	14.41	1-640454-5
12A	Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30770-ND	.49	10.97	3-641213-2
		3	.300 (7.62)	A30771-ND	.78	17.56	3-641213-3
		4	.400 (10.16)	A30772-ND	.98	21.95	3-641213-4
		5	.500 (12.70)	A30773-ND	1.29	29.11	3-641213-5
		6	.600 (15.24)	A30774-ND	1.47	33.04	3-641213-6
		7	.700 (17.78)	A30775-ND	1.64	36.97	3-641213-7
		8	.800 (20.32)	A30776-ND	1.44	32.47	3-641213-8
		9	.900 (22.86)	A30777-ND	2.13	47.91	3-641213-9
		10	1.000 (25.40)	A30747-ND	2.24	50.39	4-641213-0
		11	1.100 (27.94)	A30748-ND	2.50	56.17	4-641213-1
		12	1.200 (30.48)	A30749-ND	2.64	59.47	4-641213-2
		13	1.300 (33.02)	A30750-ND	2.94	66.08	4-641213-3
		14	1.400 (35.56)	A30751-ND	3.12	70.21	4-641213-4
		15	1.500 (38.10)	A30752-ND	5.17	116.26	4-641213-5

† UL94V-0 - Black Housing

(Continued)

AMP MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
13A	Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19450-ND	.19	1.23	640455-2
		3	.300 (7.62)	A19451-ND	.19	1.69	640455-3
		4	.400 (10.16)	A19452-ND	.19	2.25	640455-4
		5	.500 (12.70)	A19453-ND	.22	3.09	640455-5
		6	.600 (15.24)	A19454-ND	.22	3.50	640455-6
		7	.700 (17.78)	A19455-ND	.22	3.97	640455-7
		8	.800 (20.32)	A19456-ND	.22	4.19	640455-8
		9	.900 (22.86)	A19457-ND	.97	21.82	640455-9
		10	1.000 (25.40)	A19458-ND	.27	6.14	1-640455-0
		11	1.100 (27.94)	A19459-ND	.38	8.51	1-640455-1
		12	1.200 (30.48)	A19460-ND	.39	8.74	1-640455-2
		13	1.300 (33.02)	A19461-ND	.67	15.12	1-640455-3
		14	1.400 (35.56)	A19462-ND	.69	15.59	1-640455-4
		15	1.500 (38.10)	A23932-ND	1.35	30.43	1-640455-5
	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30778-ND	.85	19.06	3-641214-2
		3	.300 (7.62)	A30779-ND	1.36	30.56	3-641214-3
		4	.400 (10.16)	A30780-ND	1.43	32.19	3-641214-4
		5	.500 (12.70)	A30781-ND	1.87	42.13	3-641214-5
		6	.600 (15.24)	A30782-ND	2.17	48.73	3-641214-6
		7	.700 (17.78)	A30783-ND	2.31	52.04	3-641214-7
		8	.800 (20.32)	A30784-ND	1.44	32.47	3-641214-8
		10	1.000 (25.40)	A30753-ND	2.62	59.06	4-641214-0
		11	1.100 (27.94)	A30754-ND	2.75	61.95	4-641214-1
		12	1.200 (30.48)	A30755-ND	2.97	66.91	4-641214-2
		13	1.300 (33.02)	A30756-ND	3.23	72.69	4-641214-3
		14	1.400 (35.56)	A30757-ND	3.41	76.82	4-641214-4
		15	1.500 (38.10)	A30758-ND	3.66	82.30	4-641214-5
Post Headers, .100” (2.54mm) Centers, Friction Lock Header							
12B	Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1921-ND	.32	2.13	640456-2
		3	.300 (7.62)	A19470-ND	.34	3.02	640456-3
		4	.400 (10.16)	A1922-ND	.33	3.88	640456-4
		5	.500 (12.70)	A19471-ND	.38	5.41	640456-5
		6	.600 (15.24)	A1923-ND	.37	5.90	640456-6
		7	.700 (17.78)	A19472-ND	.39	7.09	640456-7
		8	.800 (20.32)	A1924-ND	.39	7.56	640456-8
		9	.900 (22.86)	A19473-ND	.50	11.25	640456-9
		10	1.000 (25.40)	A1925-ND	.40	8.98	1-640456-0
		11	1.100 (27.94)	A19474-ND	.56	12.52	1-640456-1
		12	1.200 (30.48)	A19475-ND	.57	12.76	1-640456-2
		13	1.300 (33.02)	A19476-ND	.79	17.72	1-640456-3
		14	1.400 (35.56)	A19477-ND	.82	18.43	1-640456-4
		15	1.500 (38.10)	A24930-ND	1.19	26.79	1-640456-5
		16	1.600 (40.64)	A29106-ND	1.27	28.68	1-640456-6
		20	2.000 (50.80)	A29104-ND	1.55	34.92	2-640456-0
		24	2.400 (60.96)	A29105-ND	1.93	43.38	2-640456-4
	Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30786-ND	.50	11.15	3-641215-2
		3	.300 (7.62)	A30787-ND	.77	17.42	3-641215-3
		4	.400 (10.16)	A30788-ND	.99	22.30	3-641215-4
		5	.500 (12.70)	A30789-ND	1.36	30.68	3-641215-5
		6	.600 (15.24)	A30790-ND	1.54	34.61	3-641215-6
		7	.700 (17.78)	A30791-ND	1.71	38.55	3-641215-7
		8	.800 (20.32)	A30792-ND	1.28	28.76	3-641215-8
		9	.900 (22.86)	A30793-ND	2.13	47.99	3-641215-9
		10	1.000 (25.40)	A30759-ND	2.24	50.35	4-641215-0
		11	1.100 (27.94)	A30760-ND	2.48	55.85	4-641215-1
		12	1.200 (30.48)	A30761-ND	2.66	59.79	4-641215-2
		14	1.400 (35.56)	A30762-ND	3.11	70.02	4-641215-4
		15	1.500 (38.10)	A30763-ND	5.52	124.30	4-641215-5
13B	Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1926-ND	.35	2.30	640457-2
		3	.300 (7.62)	A19480-ND	.37	3.35	640457-3
		4	.400 (10.16)	A1927-ND	.36	4.19	640457-4
		5	.500 (12.70)	A19481-ND	.47	6.62	640457-5
		6	.600 (15.24)	A1928-ND	.45	7.09	640457-6
		7	.700 (17.78)	A19482-ND	.41	7.32	640457-7
		8	.800 (20.32)	A1929-ND	.44	8.51	640457-8
		9	.900 (22.86)	A19483-ND	.40	8.98	640457-9
		10	1.000 (25.40)	A1930-ND	.44	9.92	1-640457-0
		11	1.100 (27.94)	A19484-ND	.46	10.40	1-640457-1
		12	1.200 (30.48)	A19485-ND	.48	10.87	1-640457-2
		13	1.300 (33.02)	A19486-ND	1.40	31.51	1-640457-3
		14	1.400 (35.56)	A19487-ND	.50	11.34	1-640457-4
13B	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30794-ND	.77	17.42	3-641216-2
		3	.300 (7.62)	A30795-ND	1.08	24.39	3-641216-3
		4	.400 (10.16)	A30796-ND	1.50	33.83	3-641216-4
		5	.500 (12.70)	A30797-ND	1.71	38.55	3-641216-5
		6	.600 (15.24)	A30798-ND	1.96	44.05	3-641216-6
		7	.700 (17.78)	A30799-ND	2.06	46.41	3-641216-7
		8	.800 (20.32)	A30800-ND	1.44	32.47	3-641216-8
		9	.900 (22.86)	A30801-ND	2.24	50.35	3-641216-9
		10	1.000 (25.40)	A30764-ND	2.38	53.49	4-641216-0
		11	1.100 (27.94)	A30765-ND	2.66	59.79	4-641216-1
		12	1.200 (30.48)	A30766-ND	4.34	97.71	4-641216-2
		13	1.300 (33.02)	A30767-ND	3.15	70.80	4-641216-3
		14	1.400 (35.56)	A30768-ND	3.39	76.31	4-641216-4
		15	1.500 (38.10)	A30769-ND	5.59	125.87	4-641216-5
Shrouded Headers, .100” (2.54mm)							
14	Straight Post, .64 (.025) Square with Pegs, Tin Plated	2	—	A30892-ND†	.60	13.58	2-644486-2
		3	—	A30893-ND†	.68	15.41	2-644486-3
		4	—	A30894-ND†	.66	14.83	2-644486-4
		5	—	A30895-ND†	.89	19.97	2-644486-5
		6	—	A30896-ND†	.97	21.78	2-644486-6
		8	—	A30898-ND†	.47	10.57	2-644486-8
		10	—	A30854-ND†	1.61	36.30	3-644486-0
		12	—	A30856-ND†	1.94	43.56	3-644486-2
		13	—	A30857-ND†	2.10	47.19	3-644486-3
		14	—	A30858-ND†	2.26	50.82	3-644486-4
	Straight Post, .64 (.025) Square without Pegs, Tin Plated	2	—	A30931-ND†	.33	7.39	2-644861-2
		3	—	A30932-ND†	.47	10.55	2-644861-3
		4	—	A30933-ND†	.66	14.83	2-644861-4
		5	—	A30934-ND†	.89	19.97	2-644861-5
		6	—	A30935-ND†	.97	21.78	2-644861-6
		7	—	A30936-ND†	1.13	25.41	2-644861-7
		8	—	A30937-ND†	.47	10.57	2-644861-8
		9	—	A30938-ND†	1.45	32.67	2-644861-9
		10	—	A30879-ND†	1.61	36.30	3-644861-0
		12	—	A30881-ND†	1.94	43.56	3-644861-2
		13	—	A30882-ND†	2.10	47.19	3-644861-3
		14	—	A30883-ND†	2.26	50.82	3-644861-4
15A	Right-Angle Post, .64 (.025) Square, Front Bend without Pegs, Tin Plated	2	.284 (7.21)	A30900-ND†	.34	7.68	2-644488-2
		3	.384 (9.75)	A30901-ND†	.51	11.51	2-644488-3
		4	.484 (12.29)	A30902-ND†	.68	15.35	2-644488-4
		6	.684 (17.37)	A30904-ND†	1.00	22.54	2-644488-6
		10	1.084 (27.53)	A30859-ND†	1.67	37.57	3-644488-0
		11	1.184 (30.07)	A30860-ND†	1.84	41.33	3-644488-1
		13	1.384 (35.15)	A30862-ND†	2.17	48.84	3-644488-3
15B	Right-Angle Post, .64 (.025) Square, Rear Bend without Pegs, Tin Plated	2	.284 (7.21)	A30924-ND†	.34	7.68	2-644803-2
		3	.384 (9.75)	A30925-ND†	.51	11.51	2-644803-3
		4	.484 (12.29)	A30926-ND†	.68	15.35	2-644803-4
		5	.584 (14.83)	A30927-ND†	.92	20.67	2-644803-5
		6	.684 (17.37)	A30928-ND†	1.00	22.54	2-644803-6
		9	.984 (24.99)	A30830-ND†	.20	2.96	2-644803-9
		10	1.084 (27.53)	A30874-ND†	1.67	37.57	3-644803-0
		12	1.284 (32.61)	A30876-ND†	2.00	45.09	3-644803-2
		13	1.384 (35.15)	A30877-ND†	2.17	48.84	3-644803-3
T-Handle Tool for MTA .100” (2.54mm)				A9982-ND	17.29	—	59803-1
Crimp Die for MTA .100” (2.54mm) Feed-Thru Receptacles (Must be used with handle A2031-ND) use with Fig. 1				A9973-ND	619.50	—	58442-1
Crimp Die for MTA .100” (2.54mm) IDC Closed End Receptacles (Must be used with handle A2031-ND) use with Fig. 1				A1998-ND	118.95	—	58246-1
Manual Pistol Grip Handle for Metal and All-Plastic Shell Connectors. (Must order crimp die separately) use with Fig. 1				A2031-ND	63.72	—	58074-1
Crimp Tool for CST-100 with Die				A19530-ND	318.60	—	58517-1
Die Set for CST-100 (use with A9996-ND)				A19531-ND	267.30	—	58517-2
Crimp Tool Handle for CST-100				A9996-ND	45.36	—	354940-1

† UL94V-0 - Black Housing

AMP MTA .156” (3.96mm) Receptacles and Post Headers

IDC Connectors: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contacts • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 7A **Low-Level Resistance:** 3mΩ maximum initial **Dielectric Withstanding Voltage:** 1250VAC/1 minute **Insulation Resistance:** 5000MΩ min. initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish – Housing:** UL94V-2 rated, type 6/6 nylon (24AWG - White; 22AWG - Red; 20AWG - Yellow; 18AWG - Orange) **Contacts:** Phosphor bronze, post tin plated, 30µ”

Replacement IDC Contacts: **Material and Finish:** Phosphor bronze, post tin plated; 30µ”

SL-156 Crimp Contacts and Housings: • High current rating • Mates with MTA and similar competitive notched headers • Rugged wire-to-board interconnection to mate with .045 square or round post headers • Housing made of flame retardant 6/6 nylon • Connectors are end-to-end stackable • Wire-to-board system offers polarization with friction lock for positive mating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 10A maximum @ 250VAC **Low-Level Resistance:** 3.0mΩ maximum initial **Dielectric Withstanding Voltage:** 2000VAC/1 minute **Insulation Resistance:** 1000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish (Contacts):** Bright tin plated brass or phosphor bronze; .012 (0.3) pre-tin or 30µ over nickel **Wire Range:** 18-24AWG **Maximum Insulation Diameter:** .110 (2.79mm)

Keying Plug with Carrier Strip (10 plugs per strip): **Material:** UL94V-2 rated, type 6/6 nylon, natural color

Post Headers: **Material For Housing:** Polyester 94V-0 rated, white **Posts:** Copper alloy

Fig. 1 – Discrete Wire IDC

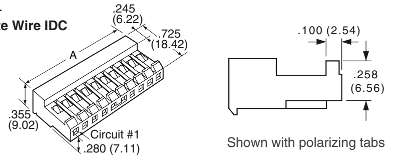

Shown with polarizing tabs

Fig. 2

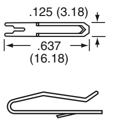

Fig. 3

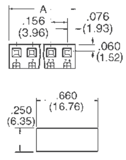

Fig. 4

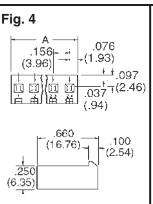

Fig. 5

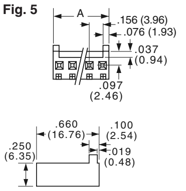

Fig. 6 – High Force

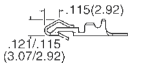

Fig. 7 – Low Force

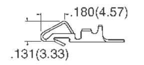

Fig. 8 – Hooded

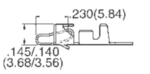

Fig. 9 – Strain Relief Cover, Closed End

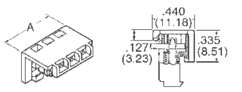

Fig. 10 – Dust Cover, Closed End

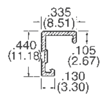

Fig. 11 – Strain Relief Cover, Feed Thru

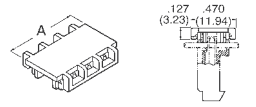

Fig. 12 – Dust Cover, Feed Thru

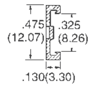

Fig. 13

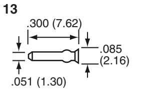

Fig. 14

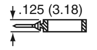

Fig. 15

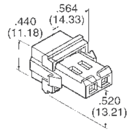

Fig. 16

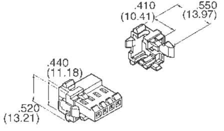

Fig. 17

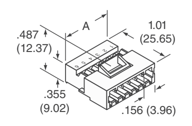

Fig. 18

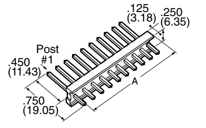

Fig. 19

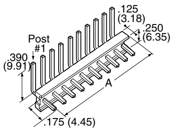

Fig. 20

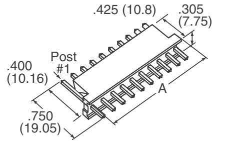

Fig. 21

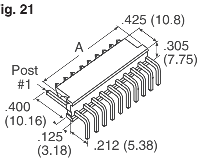

Fig. 22

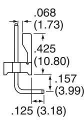

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die for SL-156 Contacts .060”-.100” Insulation Diameter	A30703-ND	603.45	91597-1
Crimp Tool with Die for SL-156 Contacts .043”-.075” Insulation Diameter	A30704-ND	603.45	91598-1
T-Handle Tool Prototype Tool for MTA .156” (3.96mm) IDC Connectors	A9981-ND	17.29	59804-1
Crimp Die for MTA .156” (3.96mm) IDC, Closed End Receptacles (Must be used with handle A2031-ND)	A1999-ND	118.95	58247-1
Crimp Die for MTA .156” (3.96mm) IDC, Feed Thru Receptacles (Must be used with handle A2031-ND)	A30528-ND	558.90	58443-1
Manual Pistol Grip Tool IDC (Must order crimp die separately)	A2031-ND	63.72	58074-1

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	AMP Part No.
Receptacles, .156” (3.96mm) Centers — RoHS Compliant							
1	Closed End with Lock without Polarizing Tabs, 26AWG Blue, Tin Plated	2	.312 (7.92)	A31216-ND	.24	5.33	3-640430-2
		3	.468 (11.89)	A31217-ND	.40	7.32	3-640430-3
		4	.624 (15.85)	A31218-ND	.39	8.80	3-640430-4
		5	.780 (19.81)	A31219-ND	.46	10.41	3-640430-5
		6	.936 (23.77)	A31220-ND	.52	11.75	3-640430-6
		8	1.248 (31.70)	A31222-ND	.67	15.14	3-640430-8
		9	1.404 (35.66)	A31223-ND	.75	17.03	3-640430-9
		10	1.560 (39.62)	A31224-ND	.84	18.93	4-640430-0
		11	1.716 (43.59)	A31225-ND	.92	20.82	4-640430-1
		12	1.872 (47.55)	A31226-ND	1.00	22.71	4-640430-2
		17	2.652 (67.36)	A31227-ND	1.77	40.11	4-640430-7
1	Closed End with Lock with Polarizing Tabs, 26AWG Blue, Tin Plated	2	.312 (7.92)	A31604-ND	.22	5.03	3-643821-2
		3	.468 (11.89)	A31605-ND	.35	6.48	3-643821-3
		4	.624 (15.85)	A31606-ND	.36	8.19	3-643821-4
		5	.780 (19.81)	A31607-ND	.46	10.41	3-643821-5
		6	.936 (23.77)	A31608-ND	.52	11.75	3-643821-6
		7	1.092 (27.74)	A31609-ND	.59	13.25	3-643821-7
		8	1.248 (31.70)	A31610-ND	.67	15.14	3-643821-8
		10	1.560 (39.62)	A31612-ND	.84	18.93	4-643821-0
		11	1.716 (43.59)	A31613-ND	.92	20.82	4-643821-1
1	Closed End without Lock without Polarizing Tabs, 26AWG Blue, Tin Plated	4	.624 (15.85)	A31582-ND	.34	7.66	3-640435-4
		6	.936 (23.77)	A31584-ND	.52	11.75	3-640435-6
		8	1.248 (31.70)	A31586-ND	.67	15.14	3-640435-8
1	Feed-Thru with Lock without Polarizing Tabs, 26AWG Blue, Tin Plated	3	.468 (11.89)	A31593-ND	.33	7.41	3-640595-3
		4	.624 (15.85)	A31594-ND	.39	8.82	3-640595-4
		6	.936 (23.77)	A31596-ND	.48	10.91	3-640595-6
		8	1.248 (31.70)	A31598-ND	.67	15.14	3-640595-8
		9	1.404 (35.66)	A31599-ND	.75	17.03	3-640595-9
1	Closed End with Lock without Polarizing Tabs, 24AWG White, Tin Plated	2	.312 (7.92)	A31240-ND	.34	6.30	3-640429-2
		3	.468 (11.89)	A31241-ND	.40	7.32	3-640429-3
		4	.624 (15.85)	A31242-ND	.41	9.35	3-640429-4
		5	.780 (19.81)	A31243-ND	.46	10.41	3-640429-5
		6	.936 (23.77)	A31244-ND	.51	11.47	3-640429-6
		7	1.092 (27.74)	A31245-ND	.59	13.25	3-640429-7
		8	1.248 (31.70)	A31246-ND	.67	15.14	3-640429-8
		9	1.404 (35.66)	A31247-ND	.75	17.03	3-640429-9
		10	1.560 (39.62)	A31248-ND	.84	18.93	4-640429-0
		12	1.872 (47.55)	A31250-ND	1.00	22.71	4-640429-2
		17	2.652 (67.36)	A31251-ND	1.77	40.11	4-640429-7
1	Closed End with Lock with Polarizing Tabs, 24AWG White, Tin Plated	2	.312 (7.92)	A31643-ND	.32	5.41	3-643820-2
		3	.468 (11.89)	A31644-ND	.40	7.32	3-643820-3
		4	.624 (15.85)	A31645-ND	.35	7.98	3-643820-4
		5	.780 (19.81)	A31646-ND	.46	10.41	3-643820-5
		6	.936 (23.77)	A31647-ND	.48	10.91	3-643820-6
		7	1.092 (27.74)	A31648-ND	.59	13.25	3-643820-7
		8	1.248 (31.70)	A31649-ND	.67	15.14	3-643820-8
		9	1.404 (35.66)	A31650-ND	.75	17.03	3-643820-9
		12	1.872 (47.55)	A31653-ND	1.00	22.71	4-643820-2
		17	2.652 (67.36)	A31654-ND	1.76	39.90	4-643820-7
1	Closed End without Lock without Polarizing Tabs, 24AWG White, Tin Plated	2	.312 (7.92)	A31264-ND	.46	5.85	3-640434-2
		3	.468 (11.89)	A31265-ND	.40	7.32	3-640434-3
		4	.624 (15.85)	A31266-ND	.36	8.17	3-640434-4
		6	.936 (23.77)	A31268-ND	.47	10.75	3-640434-6
		7	1.092 (27.74)	A31269-ND	.59	13.25	3-640434-7
		8	1.248 (31.70)	A31270-ND	.67	15.14	3-640434-8
		10	1.560 (39.62)	A31272-ND	.84	18.93	4-640434-0
		11	1.716 (43.59)	A31273-ND	.92	20.82	4-640434-1
		17	2.652 (67.36)	A31275-ND	1.77	40.11	4-640434-7

(Continued)

AMP MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1	Feed-Thru with Lock without Polarizing Tabs, 24AWG White, Tin Plated	2	.312 (7.92)	A31628-ND	.29	5.41	3-640602-2
		3	.468 (11.89)	A31629-ND	.33	7.56	3-640602-3
		4	.624 (15.85)	A31630-ND	.39	8.80	3-640602-4
		6	.936 (23.77)	A31632-ND	.51	11.58	3-640602-6
		8	1.248 (31.70)	A31634-ND	.67	15.14	3-640602-8
		10	1.560 (39.62)	A31636-ND	.84	18.93	4-640602-0
		12	1.872 (47.55)	A31638-ND	1.00	22.71	4-640602-2
1	Closed End with Lock without Polarizing Tabs, 22AWG Red, Tin Plated	2	.312 (7.92)	A31228-ND	.30	5.46	3-640428-2
		3	.468 (11.89)	A31229-ND	.34	6.30	3-640428-3
		4	.624 (15.85)	A31230-ND	.39	8.82	3-640428-4
		5	.780 (19.81)	A31231-ND	.45	10.08	3-640428-5
		6	.936 (23.77)	A31232-ND	.54	12.18	3-640428-6
		7	1.092 (27.74)	A31233-ND	.76	17.22	3-640428-7
		8	1.248 (31.70)	A31234-ND	.87	19.68	3-640428-8
		9	1.404 (35.66)	A31235-ND	.98	22.14	3-640428-9
		10	1.560 (39.62)	A31236-ND	1.09	24.60	4-640428-0
		11	1.716 (43.59)	A31237-ND	1.20	27.06	4-640428-1
		12	1.872 (47.55)	A31238-ND	1.30	29.53	4-640428-2
		17	2.652 (67.36)	A31239-ND	2.30	52.16	4-640428-7
1	Closed End with Lock with Polarizing Tabs, 22AWG Red, Tin Plated	2	.312 (7.92)	A31276-ND	.29	5.41	3-643819-2
		3	.468 (11.89)	A31277-ND	.40	7.32	3-643819-3
		4	.624 (15.85)	A31278-ND	.36	8.25	3-643819-4
		5	.780 (19.81)	A31279-ND	.46	10.41	3-643819-5
		6	.936 (23.77)	A31280-ND	.52	11.75	3-643819-6
		7	1.092 (27.74)	A31281-ND	.59	13.25	3-643819-7
		8	1.248 (31.70)	A31282-ND	.67	15.14	3-643819-8
		9	1.404 (35.66)	A31283-ND	.75	17.03	3-643819-9
		10	1.560 (39.62)	A31284-ND	.84	18.93	4-643819-0
		11	1.716 (43.59)	A31640-ND	.92	20.82	4-643819-1
		12	1.872 (47.55)	A31641-ND	1.00	22.71	4-643819-2
		17	2.652 (67.36)	A31642-ND	1.77	40.12	4-643819-7
1	Closed End without Lock without Polarizing Tabs, 22AWG Red, Tin Plated	2	.312 (7.92)	A31252-ND	.34	6.30	3-640433-2
		3	.468 (11.89)	A31253-ND	.40	7.32	3-640433-3
		4	.624 (15.85)	A31254-ND	.39	8.80	3-640433-4
		5	.780 (19.81)	A31255-ND	.46	10.41	3-640433-5
		6	.936 (23.77)	A31256-ND	.51	11.47	3-640433-6
		7	1.092 (27.74)	A31257-ND	.59	13.25	3-640433-7
		8	1.248 (31.70)	A31258-ND	.67	15.14	3-640433-8
		9	1.404 (35.66)	A31259-ND	.75	17.03	3-640433-9
		10	1.560 (39.62)	A31260-ND	.84	18.93	4-640433-0
		11	1.716 (43.59)	A31261-ND	.92	20.82	4-640433-1
		17	2.652 (67.36)	A31263-ND	1.77	40.11	4-640433-7
1	Closed End without Lock with Polarizing Tabs, 22AWG Red, Tin Plated	2	.312 (7.92)	A31285-ND	.29	5.41	3-644463-2
		4	.624 (15.85)	A31287-ND	.36	8.25	3-644463-4
		5	.780 (19.81)	A31288-ND	.46	10.41	3-644463-5
		6	.936 (23.77)	A31289-ND	.52	11.75	3-644463-6
		7	1.092 (27.74)	A31290-ND	.59	13.25	3-644463-7
		8	1.248 (31.70)	A31291-ND	.67	15.14	3-644463-8
		10	1.560 (39.62)	A31293-ND	.84	18.93	4-644463-0
		11	1.716 (43.59)	A31294-ND	.92	20.82	4-644463-1
		12	1.872 (47.55)	A31295-ND	1.00	22.71	4-644463-2
1	Feed-Thru with Lock without Polarizing Tabs, 22AWG Red, Tin Plated	2	.312 (7.92)	A31616-ND	.24	5.46	3-640601-2
		3	.468 (11.89)	A31617-ND	.35	7.98	3-640601-3
		4	.624 (15.85)	A31618-ND	.39	8.94	3-640601-4
		5	.780 (19.81)	A31619-ND	.46	10.41	3-640601-5
		6	.936 (23.77)	A31620-ND	.51	11.58	3-640601-6
		7	1.092 (27.74)	A31621-ND	.59	13.25	3-640601-7
		8	1.248 (31.70)	A31622-ND	.67	15.14	3-640601-8
		9	1.404 (35.66)	A31623-ND	.75	17.03	3-640601-9
		10	1.560 (39.62)	A31624-ND	.84	18.93	4-640601-0
		11	1.716 (43.59)	A31625-ND	.92	20.82	4-640601-1
		12	1.872 (47.55)	A31626-ND	1.00	22.71	4-640601-2
		17	2.652 (67.36)	A31627-ND	1.77	40.13	4-640601-7
1	Closed End with Lock without Polarizing Tabs, 20AWG Yellow, Tin Plated	2	.312 (7.92)	A31308-ND	.32	5.88	3-640427-2
		3	.468 (11.89)	A31309-ND	.34	6.30	3-640427-3
		4	.624 (15.85)	A31310-ND	.39	8.82	3-640427-4
		5	.780 (19.81)	A31311-ND	.60	13.53	3-640427-5
		6	.936 (23.77)	A31312-ND	.67	15.17	3-640427-6
		7	1.092 (27.74)	A31313-ND	.76	17.22	3-640427-7
		8	1.248 (31.70)	A31314-ND	.87	19.68	3-640427-8
		9	1.404 (35.66)	A31315-ND	.98	22.14	3-640427-9
		10	1.560 (39.62)	A31316-ND	1.09	24.60	4-640427-0
		11	1.716 (43.59)	A31317-ND	1.20	27.06	4-640427-1
		12	1.872 (47.55)	A31318-ND	1.30	29.53	4-640427-2
		17	2.652 (67.36)	A31319-ND	1.85	41.96	4-640427-7
1	Closed End with Lock with Polarizing Tabs, 20AWG Yellow, Tin Plated	2	.312 (7.92)	A31363-ND	.29	5.41	3-643818-2
		3	.468 (11.89)	A31364-ND	.40	7.32	3-643818-3
		4	.624 (15.85)	A31365-ND	.37	8.40	3-643818-4
		5	.780 (19.81)	A31366-ND	.46	10.41	3-643818-5
		6	.936 (23.77)	A31367-ND	.52	11.75	3-643818-6
		7	1.092 (27.74)	A31368-ND	.59	13.25	3-643818-7
		8	1.248 (31.7)	A31369-ND	.67	15.14	3-643818-8
1	Closed End with Lock with Polarizing Tabs. 20AWG Yellow, Tin Plated	9	1.404 (35.66)	A31370-ND	.75	17.03	3-643818-9
		10	1.560 (39.62)	A31671-ND	.84	18.93	4-643818-0
		11	1.716 (43.59)	A33192-ND	.92	20.82	4-643818-1
		12	1.872 (47.55)	A31371-ND	1.00	22.71	4-643818-2
1	Closed End without Lock without Polarizing Tabs, 20AWG Yellow, Tin Plated	2	.312 (7.92)	A31332-ND	.24	5.37	3-640432-2
		3	.468 (11.89)	A31333-ND	.40	7.32	3-640432-3
		4	.624 (15.85)	A31334-ND	.39	8.80	3-640432-4
		5	.780 (19.81)	A31335-ND	.46	10.41	3-640432-5
		6	.936 (23.77)	A31336-ND	.51	11.47	3-640432-6
		7	1.092 (27.74)	A31337-ND	.59	13.25	3-640432-7
		8	1.248 (31.70)	A31338-ND	.67	15.14	3-640432-8
		12	1.872 (47.55)	A31342-ND	1.00	22.71	4-640432-2
		17	2.652 (67.36)	A31343-ND	1.77	40.11	4-640432-7
1	Feed-Thru with Lock without Polarizing Tabs, 20AWG Yellow, Tin Plated	2	.312 (7.92)	A31655-ND	.32	7.14	3-640600-2
		3	.468 (11.89)	A31656-ND	.33	7.56	3-640600-3
		4	.624 (15.85)	A31657-ND	.43	9.66	3-640600-4
		5	.780 (19.81)	A31658-ND	.46	10.50	3-640600-5
		6	.936 (23.77)	A31659-ND	.58	13.02	3-640600-6
		8	1.248 (31.70)	A31661-ND	.67	15.14	3-640600-8
		9	1.404 (35.66)	A31662-ND	.75	17.03	3-640600-9
		10	1.560 (39.62)	A31663-ND	.84	18.93	4-640600-0
		11	1.716 (43.59)	A31664-ND	.92	20.82	4-640600-1
		12	1.872 (47.55)	A31665-ND	1.00	22.71	4-640600-2
		17	2.652 (67.36)	A31666-ND	1.77	40.13	4-640600-7
1	Feed-Thru with Lock with Polarizing Tabs, 20AWG Yellow, Tin Plated	2	.312 (7.92)	A31383-ND	.29	5.41	3-644466-2
		3	.468 (11.89)	A31384-ND	.31	7.02	3-644466-3
		4	.624 (15.85)	A31385-ND	.39	8.82	3-644466-4
		5	.780 (19.81)	A31386-ND	.46	10.41	3-644466-5
		6	.936 (23.77)	A31387-ND	.52	11.75	3-644466-6
		8	1.248 (31.70)	A31389-ND	.67	15.14	3-644466-8
		9	1.404 (35.66)	A31390-ND	.75	17.03	3-644466-9
		10	1.560 (39.62)	A31391-ND	.84	18.93	4-644466-0
		12	1.872 (47.55)	A31393-ND	1.00	22.71	4-644466-2
1	Closed End with Lock without Polarizing Tabs, 18AWG Orange, Tin Plated	2	.312 (7.92)	A31296-ND	.32	5.88	3-640426-2
		3	.468 (11.89)	A31297-ND	.34	6.30	3-640426-3
		4	.624 (15.85)	A31298-ND	.43	9.74	3-640426-4
		5	.780 (19.81)	A31299-ND	.50	11.30	3-640426-5
		6	.936 (23.77)	A31300-ND	.57	12.89	3-640426-6
		7	1.092 (27.74)	A31301-ND	.64	14.45	3-640426-7
		8	1.248 (31.70)	A31302-ND	.85	19.24	3-640426-8
		9	1.404 (35.66)	A31303-ND	.85	19.32	3-640426-9
		10	1.560 (39.62)	A31304-ND	.98	22.26	4-640426-0
		11	1.716 (43.59)	A31305-ND	1.00	22.68	4-640426-1
		12	1.872 (47.55)	A31306-ND	1.09	24.78	4-640426-2
		17	2.652 (67.36)	A31307-ND	1.30	29.40	4-640426-7
1	Closed End with Lock with Polarizing Tabs, 18AWG Orange, Tin Plated	2	.312 (7.92)	A31355-ND	.29	5.41	3-643817-2
		3	.468 (11.89)	A31356-ND	.40	7.32	3-643817-3
		4	.624 (15.85)	A31357-ND	.37	8.40	3-643817-4
		5	.780 (19.81)	A31358-ND	.46	10.41	3-643817-5
		6	.936 (23.77)	A31359-ND	.52	11.75	3-643817-6
		7	1.092 (27.74)	A31360-ND	.59	13.25	3-643817-7
		8	1.248 (31.70)	A31361-ND	.67	15.14	3-643817-8
		9	1.404(35.56)	A31667-ND	.75	17.03	3-643817-9
		10	1.560 (39.62)	A31668-ND	.84	18.93	4-643817-0
		11	1.716 (43.59)	A31362-ND	.92	20.82	4-643817-1
		12	1.872 (47.55)	A31669-ND	1.00	22.71	4-643817-2
		17	2.652 (67.36)	A31670-ND	1.77	40.12	4-643817-7
1	Closed End without Lock without Polarizing Tabs, 18AWG Orange, Tin Plated	2	.312 (7.92)	A31320-ND	.34	6.30	3-640431-2
		3	.468 (11.89)	A31321-ND	.40	7.32	3-640431-3
		4	.624 (15.85)	A31322-ND	.39	8.80	3-640431-4
		5	.780 (19.81)	A31323-ND	.46	10.41	3-640431-5
		6	.936 (23.77)	A31324-ND	.52	11.75	3-640431-6
		7	1.092 (27.74)	A31325-ND	.59	13.25	3-640431-7
		8	1.248 (31.70)	A31326-ND	.67	15.14	3-640431-8
		9	1.404 (35.66)	A31327-ND	.75	17.03	3-640431-9
		10	1.560 (39.62)	A31328-ND	.84	18.93	4-640431-0
		11	1.716 (43.59)	A31329-ND	.92	20.82	4-640431-1
		12	1.872 (47.55)	A31330-ND	1.00	22.71	4-640431-2
1	Feed-Thru with Lock without Polarizing Tabs, 18AWG Orange, Tin Plated	2	.312 (7.92)	A31344-ND	.36	6.72	3-640599-2
		3	.468 (11.89)	A31345-ND	.32	7.14	3-640599-3
		4	.624 (15.85)	A31346-ND	.50	11.34	3-640599-4
		5	.780 (19.81)	A31347-ND	.50	11.38	3-640599-5
		6	.936 (23.77)	A31348-ND	.51	11.58	3-640599-6
		7	1.092 (27.74)	A31349-ND	.59	13.25	3-640599-7
		8	1.248 (31.70)	A31350-ND	.67	15.14	3-640599-8
		9	1.404 (35.66)	A31351-ND	.75	17.03	3-640599-9
		10	1.560 (39.62)	A31352-ND	.84	18.93	4-640599-0
		11	1.716 (43.59)	A31353-ND	.92	20.82	4-640599-1
		12	1.872 (47.55)	A31354-ND	1.00	22.71	4-640599-2
1	Feed-Thru with Lock with Polarizing Tabs, 18AWG Orange, Tin Plated	2	.312 (7.92)	A31372-ND	.29	5.41	3-644465-2
		3	.468 (11.89)	A31373-ND	.35	7.98	3-644465-3
		4	.624 (15.85)	A31374-ND	.37	8.39	3-644465-4
		5	.780 (19.81)	A31375-ND	.46	10.41	3-644465-5
		6	.936 (23.77)	A31376-ND	.52	11.75	3-644465-6
		7	1.092 (27.74)	A31377-ND	.59	13.25	3-644465-7
		8	1.248 (31.70)	A31378-ND	.67	15.14	3-644465-8
		9	1.404 (35.66)	A31379-ND	.75	17.03	3-644465-9
		10	1.560 (39.62)	A31380-ND	.84	18.93	4-644465-0
		11	1.716 (43.59)	A31381-ND	.92	20.82	4-644465-1
Replacement IDC Contacts, .156” (3.96mm) Centers — RoHS Compliant							
2	Tin Plated, 18AWG	—	—	A31672-ND	.29	2.68	640631-3
	Tin Plated, 20AWG	—	—	A31673-ND	.29	2.68	640632-3
	Tin Plated, 22AWG	—	—	A31674-ND	.36	3.32	640633-3
	Tin Plated, 24AWG	—	—	A31675-ND	.38	3.48	640634-3

(Continued)

AMP MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
SL-156 Crimp Housings (Contacts Sold Separately) — RoHS Compliant							
3	Without Lock Ramp Without Polarizing Tabs, UL94V-0 Natural	2	.308 (7.82)	A19970-ND	.30	3.59	640251-2
		3	.465 (11.81)	A19971-ND	.23	3.28	640251-3
		4	.620 (15.75)	A19972-ND	.22	3.98	640251-4
		5	.777 (19.74)	A19973-ND	.24	5.51	640251-5
		6	.933 (23.70)	A19974-ND	.35	7.06	640251-6
		7	1.090 (27.69)	A19975-ND	.33	7.39	640251-7
		8	1.246 (31.65)	A19976-ND	.47	10.75	640251-8
		9	1.402 (35.61)	A19977-ND	.59	13.44	640251-9
		10	1.558 (39.57)	A19978-ND	.62	14.11	1-640251-0
		11	1.715 (43.56)	A19979-ND	.65	14.78	1-640251-1
		12	1.871 (47.52)	A19980-ND	.71	16.13	1-640251-2
		13	2.027 (51.49)	A24128-ND	.73	16.46	1-640251-3
		14	2.183 (55.45)	A24129-ND	.74	16.80	1-640251-4
		16	2.496 (63.40)	A24130-ND	1.04	23.52	1-640251-6
4	With Lock Ramp Without Polarizing Tabs, UL94V-0 Natural (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A19950-ND	.27	2.45	640250-2
		3	.465 (11.81)	A19951-ND	.43	3.67	640250-3
		4	.620 (15.75)	A19952-ND	.22	3.98	640250-4
		5	.777 (19.74)	A19953-ND	.39	5.51	640250-5
		6	.933 (23.70)	A19954-ND	.41	7.06	640250-6
		7	1.090 (27.69)	A19955-ND	.43	7.39	640250-7
		8	1.246 (31.65)	A19956-ND	.47	10.75	640250-8
		9	1.402 (35.61)	A19957-ND	.59	13.44	640250-9
		10	1.558 (39.57)	A19958-ND	.62	14.11	1-640250-0
		11	1.715 (43.56)	A19959-ND	.65	14.78	1-640250-1
		12	1.871 (47.52)	A19960-ND	.71	16.13	1-640250-2
		13	2.027 (51.49)	A28761-ND	.73	16.46	1-640250-3
		14	2.183 (55.45)	A24126-ND	.74	16.80	1-640250-4
		16	2.496 (63.40)	A24127-ND	1.04	23.52	1-640250-6
5	With Lock Ramp With Polarizing Tabs, UL94V-0 Natural (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A24111-ND	.23	2.21	770849-2
		3	.465 (11.81)	A24112-ND	.26	3.67	770849-3
		4	.620 (15.75)	A24113-ND	.22	3.98	770849-4
		5	.777 (19.74)	A24114-ND	.40	5.97	770849-5
		6	.933 (23.70)	A24115-ND	.31	7.06	770849-6
		7	1.090 (27.69)	A24116-ND	.27	6.07	770849-7
		8	1.246 (31.65)	A24117-ND	.47	10.75	770849-8
		9	1.402 (35.61)	A24118-ND	.54	12.24	770849-9
		10	1.558 (39.57)	A24119-ND	.57	12.85	1-770849-0
		11	1.715 (43.56)	A24120-ND	.65	14.78	1-770849-1
		12	1.871 (47.52)	A24121-ND	.71	16.13	1-770849-2
		13	2.027 (51.49)	A24122-ND	.73	16.46	1-770849-3
		14	2.183 (55.45)	A24123-ND	.74	16.80	1-770849-4
		16	2.496 (63.40)	A24124-ND	1.04	23.52	1-770849-6

Fig.	Description	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		AMP Part No.
			1	25			100	500	
SL-156 Crimp Contacts (24-18AWG)									
6	Brass, Tin Plated, 6.5A	A31396-ND◆	.26	5.86	3-640706-1	A31395CT-ND◆ A31395TR-ND◆	7.88 275.94/7,000	36.14	3-640252-1
	Brass, Pre-Tin Plated, 6.5A	A19991-ND◆	.34	5.45	640706-2	A19991CT-ND◆ A19991TR-ND◆	4.64 162.44/7,000	21.27	640252-2
7	Brass, Tin Plated, 6.5A	A31397-ND◆	.33	6.61	3-640707-1	A31394CT-ND◆ A31394TR-ND◆	8.75 262.53/6,000	40.11	3-350980-1
	Brass, Pre-Tin Plated, 6.5A	—	—	—	—	A24203CT-ND◆ A24203TR-ND◆	5.46 163.71/6,000	25.01	350980-2
	Brass, Gold Plated, 6.5A	A24205-ND◆	.45	10.08	770258-1	A24205CT-ND◆ A24205TR-ND◆	33.88 1016.28/6,000	155.27	350980-3
8	Phosphor Bronze, Tin Plated, Hooded, 10A	A19993-ND	.44	8.82	770522-1	—	—	—	—
	Phosphor Bronze, Tin Plated, Hooded, 10A	A32533-ND◆	.39	7.78	3-770522-1	—	—	—	—
	Phosphor Bronze, Tin Plated, Hooded, 10A	—	—	—	—	A31398CT-ND◆ A31398TR-ND◆	7.92 217.88/5,500	36.31	3-770476-1
	Phosphor Bronze, Gold Plated, Hooded, 10A	A24208-ND◆	.50	11.38	770522-2	A24208CT-ND◆ A24208TR-ND◆	39.64 1090.07/5,500	181.68	770476-2
NEW! SL-156 Die Assembly NEW!									
—	Die use with Pro Crimper Hand Tool 354940-1					A100343-ND	207.90/1		58614-2

◆ *RoHS Compliant*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
SL-156 Keying Plugs and Pins — RoHS Compliant							
—	Plug, Keying	—	—	A19994-ND	.22	1.63	640254-1
—	Pin, Keying	—	—	A19995-ND	.52	4.23	640255-1
Accessories, .156” (3.96mm) Centers — RoHS Compliant							
9	Closed End Strain Relief Covers, White	2	.312 (7.92)	A19740-ND	.33	7.38	643067-2
		3	.468 (11.89)	A19741-ND	.71	16.00	643067-3
		4	.624 (15.85)	A19742-ND	.71	16.05	643067-4
		5	.780 (19.81)	A19743-ND	.75	16.88	643067-5
		6	.936 (23.77)	A19744-ND	.75	16.93	643067-6
		7	1.092 (27.74)	A19745-ND	.75	16.99	643067-7
		8	1.248 (31.70)	A19746-ND	.76	17.04	643067-8
		10	1.560 (39.62)	A19748-ND	.82	18.46	1-643067-0
		11	1.716 (43.59)	A19749-ND	.82	18.52	1-643067-1
		12	1.872 (47.55)	A19750-ND	.83	18.58	1-643067-2
		13	2.028 (51.51)	A24108-ND	.83	18.63	1-643067-3
		17	2.652 (67.36)	A24109-ND	.84	18.86	1-643067-7
10	Closed End Dust Covers, Natural	2	—	A19760-ND	.19	2.39	640551-2
		3	—	A19761-ND	.20	2.98	640551-3
		4	—	A19762-ND	.20	3.57	640551-4
		5	—	A19763-ND	.20	4.16	640551-5
		6	—	A19764-ND	.21	4.74	640551-6
		7	—	A19765-ND	.24	5.33	640551-7
		8	—	A19766-ND	.26	5.92	640551-8
		9	—	A19767-ND	.29	6.51	640551-9
		10	—	A19768-ND	.32	7.09	1-640551-0
		11	—	A19769-ND	.34	7.63	1-640551-1
		12	—	A19770-ND	.36	8.13	1-640551-2
11	Feed-Thru Strain Relief Covers, White	2	.312 (7.92)	A19780-ND	.20	4.59	643071-2
		3	.468 (11.89)	A19781-ND	.31	6.88	643071-3
		4	.624 (15.85)	A19782-ND	.41	9.18	643071-4
		6	.936 (23.77)	A19784-ND	.63	14.13	643071-6
11	Feed-Thru Strain Relief Covers, White	8	1.248 (31.70)	A19786-ND	.76	17.04	643071-8
		9	1.404 (35.66)	A19787-ND	.76	17.09	643071-9
		10	1.560 (39.62)	A19788-ND	.76	17.15	1-643071-0
		11	1.716 (43.59)	A19789-ND	.82	18.52	1-643071-1
		12	1.872 (47.55)	A19790-ND	.83	18.58	1-643071-2
12	Feed-Thru Dust Covers, Natural	3	—	A19801-ND	.20	2.98	640643-3
		4	—	A19802-ND	.20	3.57	640643-4
		5	—	A19803-ND	.20	4.16	640643-5
		6	—	A19804-ND	.30	4.20	640643-6
		7	—	A19805-ND	.24	5.33	640643-7
		8	—	A19806-ND	.35	5.92	640643-8
		9	—	A19807-ND	.29	6.51	640643-9
		10	—	A19808-ND	.32	7.09	1-640643-0
		11	—	A19809-ND	.34	7.63	1-640643-1
		12	—	A19810-ND	.36	8.13	1-640643-2
Keying Plugs — RoHS Compliant							
13	Loose Piece, Flush Used with Keyed Headers	—	—	A19845-ND	.17	2.24	640629-1
14	On Carrier Strip, Flush 10 per Strip	—	—	A19840-ND	.96	21.65	641623-1
Panel Mount End Caps — RoHS Compliant							
15	Black Nylon	2	—	A19860-ND	.68	15.31	641533-1
16	Black Nylon	3-24	—	A19855-ND	1.06	23.87	641440-1
IDC Posted Connectors — RoHS Compliant							
17	Closed End, 20AWG Yellow with Lock, without Polarization	2	.316 (8.03)	A99629-ND	.73	16.47	3-641436-2
		3	.472 (11.99)	A99630-ND	.92	20.91	3-641436-3
		6	.940 (23.88)	A99631-ND	1.36	30.88	3-641436-6
	Closed End, 22AWG Red with Lock, Without Polarization	2	.316 (8.03)	A99632-ND	.73	16.47	3-641437-2
		3	.472 (11.99)	A99633-ND	.92	20.91	3-641437-3
		4	.628 (15.95)	A99634-ND	1.06	24.11	3-641437-4
		6	.940 (23.88)	A99635-ND	1.36	30.88	3-641437-6
Flat Post Headers, .156” (3.96mm) Centers — RoHS Compliant							
18	Straight Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, Natural	2	.312 (7.92)	A1961-ND	.36	5.67	640383-2
		3	.468 (11.89)	A19870-ND	.29	6.62	640383-3
		4	.624 (15.85)	A1962-ND	.36	8.03	640383-4
		5	.780 (19.81)	A19871-ND	.44	9.92	640383-5
		6	.936 (23.77)	A1963-ND	.55	12.29	640383-6
		7	1.092 (27.74)	A19872-ND	.63	14.18	640383-7
		8	1.248 (31.70)	A1964-ND	.71	16.07	640383-8
		9	1.404 (35.66)	A19873-ND	.82	18.43	640383-9
		10	1.560 (39.62)	A1965-ND	.90	20.32	1-640383-0
		11	1.716 (43.59)	A19874-ND	.99	22.21	1-640383-1
		12	1.872 (47.55)	A19875-ND	1.32	29.77	1-640383-2
		17	2.652 (67.36)	A26167-ND	2.02	45.36	1-640383-7
18	Straight Post .045” (1.14mm) Round, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, Natural	2	.312 (7.92)	A26168-ND	.25	5.67	640384-2
		3	.468 (11.89)	A26169-ND	.29	6.62	640384-3
		4	.624 (15.85)	A24152-ND	.34	7.56	640384-4
		5	.780 (19.81)	A26170-ND	.42	9.45	640384-5
		6	.936 (23.77)	A26171-ND	.50	11.34	640384-6
		7	1.092 (27.74)	A26172-ND	.59	13.23	640384-7
		8	1.248 (31.70)	A24153-ND	.67	15.12	640384-8
		9	1.404 (35.66)	A26173-ND	.76	17.01	640384-9
		10	1.560 (39.62)	A24154-ND	.84	18.90	1-640384-0
		12	1.872 (47.55)	A26174-ND	.99	22.21	1-640384-2
19	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, Natural	2	.312 (7.92)	A1966-ND	.77	6.14	640385-2
		3	.468 (11.89)	A19876-ND	.78	7.56	640385-3
		4	.624 (15.85)	A1967-ND	.63	8.98	640385-4
		5	.780 (19.81)	A19877-ND	.63	11.34	640385-5
		6	.936 (23.77)	A1968-ND	.66	13.70	640385-6
		7	1.092 (27.74)	A19878-ND	.69	15.59	640385-7
		8	1.248 (31.70)	A1969-ND	.82	18.43	640385-8
		10	1.560 (39.62)	A1970-ND	1.26	28.35	1-640385-0
		11	1.716 (43.59)	A19880-ND	1.28	28.82	1-640385-1
		12	1.872 (47.55)	A19881-ND	1.30	29.30	1-640385-2
19	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, Natural	2	.312 (7.92)	A24155-ND	.83	6.62	644751-2
		3	.468 (11.89)	A24156-ND	.30	6.70	644751-3
		4	.624 (15.85)	A24157-ND	.42	9.45	644751-4
		5	.780 (19.81)	A24158-ND	.53	11.81	644751-5
		6	.936 (23.77)	A24159-ND	.63	14.18	644751-6
		7	1.092 (27.74)	A24160-ND	.74	16.54	644751-7
		8	1.248 (31.70)	A24161-ND	.84	18.90	644751-8
		10	1.560 (39.62)	A24162-ND	1.03	23.15	1-644751-0
		12	1.872 (47.55)	A24163-ND	1.24	27.88	1-644751-2
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header — RoHS Compliant							
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, Natural	2	.312 (7.92)	A1971-ND	.42	3.31	640445-2
		3	.468 (11.89)	A19890-ND	.43	4.25	640445-3
		4	.624 (15.85)	A1972-ND	.40	5.67	640445-4
		5	.780 (19.81)	A19891-ND	.34	6.14	640445-5
		6	.936 (23.77)	A1973-ND	.41	8.51	640445-6
		7	1.092 (27.74)	A19892-ND	.39	8.74	640445-7
		8	1.248 (31.70)	A1974-ND	.44	9.92	640445-8
		9	1.404 (35.66)	A19893-ND	.45	10.16	640445-9
		10	1.560 (39.62)	A1975-ND	.55	12.29	1-640445-0
		11	1.716 (43.59)	A19894-ND	.56	12.52	1-640445-1
		12	1.872 (47.55)	A19895-ND	.65	14.65	1-640445-2
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, Natural	2	.312 (7.92)	A24164-ND	.17	3.78	644752-2
		3	.468 (11.89)	A24165-ND	.21	4.73	644752-3
		4	.624 (15.85)	A24166-ND	.34	7.56	644752-4
		5	.780 (19.81)	A24167-ND	.40	8.98	644752-5
		6	.936 (23.77)	A24168-ND	.39	8.78	644752-6
		7	1.092 (27.74)	A24169-ND	.44	9.92	644752-7
		8	1.248 (31.70)	A24170-ND	.50	11.34	644752-8
		9	1.404 (35.66)	A26175-ND	.76	17.01	644752-9
		10	1.560 (39.62)	A24171-ND	.61	13.70	1-644752-0
		12	1.872 (47.55)	A24172-ND	.74	16.54	1-644752-2

(Continued)

AMP MTA .156" (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
20	Square Post .045" (1.14mm) Square, Standard UL94V-0, 30µ" Gold Plated, .125" (3.18mm) Soldertail, Natural	2	.312 (7.92)	A31676-ND	.90	20.31	3-641208-2
		3	.468 (11.89)	A31677-ND	1.32	29.73	3-641208-3
		4	.624 (15.85)	A31678-ND	1.70	38.23	3-641208-4
		5	.780 (19.81)	A31679-ND	2.11	47.43	3-641208-5
		6	.936 (23.77)	A31680-ND	2.34	52.59	3-641208-6
		7	1.092 (27.74)	A31681-ND	2.99	67.26	3-641208-7
		8	1.248 (31.70)	A31682-ND	3.37	75.75	3-641208-8
		9	1.404 (35.66)	A31683-ND	3.81	85.66	3-641208-9
		10	1.560 (39.62)	A31684-ND	4.25	95.57	4-641208-0
		11	1.716 (43.59)	A31685-ND	4.63	104.07	4-641208-1
		12	1.872 (47.55)	A31686-ND	5.07	113.98	4-641208-2
		17	2.652 (67.36)	A31687-ND	11.36	255.57	4-641208-7
20	Round Post .045" (1.14mm) Square, Standard UL94V-0, Tin Plated, .125" (3.18mm) Soldertail, Natural	2	.312 (7.92)	A19900-ND	.48	3.78	640388-2
		3	.468 (11.89)	A19901-ND	.44	4.25	640388-3
		4	.624 (15.85)	A19902-ND	.37	5.20	640388-4
		5	.780 (19.81)	A19903-ND	.34	6.14	640388-5
		6	.936 (23.77)	A19904-ND	.36	7.56	640388-6
		7	1.092 (27.74)	A19905-ND	.40	8.98	640388-7
		8	1.248 (31.70)	A19906-ND	.46	10.40	640388-8
		9	1.404 (35.66)	A19907-ND	.55	12.29	640388-9
		10	1.560 (39.62)	A19908-ND	.57	12.76	1-640388-0
		11	1.716 (43.59)	A19909-ND	.61	13.70	1-640388-1
		12	1.872 (47.55)	A19910-ND	.67	15.12	1-640388-2
20	Round Post .045" (1.14mm) Square, Standard UL94V-0, Tin Plated, .175" (4.45mm) Soldertail, Natural	2	.312 (7.92)	A24176-ND	.71	5.67	644753-2
		3	.468 (11.89)	A24177-ND	.28	6.28	644753-3
		4	.624 (15.85)	A24178-ND	.38	8.51	644753-4
		5	.780 (19.81)	A24179-ND	.46	10.40	644753-5
		6	.936 (23.77)	A24180-ND	.57	12.76	644753-6
		7	1.092 (27.74)	A24181-ND	.63	14.18	644753-7
		8	1.248 (31.70)	A24182-ND	.74	16.54	644753-8
		10	1.560 (39.62)	A24183-ND	.90	20.32	1-644753-0
		12	1.872 (47.55)	A24184-ND	1.09	24.57	1-644753-2

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Right Angle Post Headers, .156" (3.96mm) Centers, Friction Lock Header — RoHS Compliant							
21	Right Angle Post .045" (1.14mm) Square, Front Bend, Standard UL94V-0 Tin-Plated, .125" (3.18mm) Soldertail, Natural	2	.312 (7.92)	A1976-ND	.42	9.45	640389-2
		3	.468 (11.89)	A19920-ND	.49	10.97	640389-3
		4	.624 (15.85)	A1977-ND	.63	14.18	640389-4
		5	.780 (19.81)	A19921-ND	.78	17.48	640389-5
		6	.936 (23.77)	A1978-ND	.95	21.26	640389-6
		7	1.092 (27.74)	A19922-ND	1.09	24.57	640389
		8	1.248 (31.70)	A1979-ND	1.26	28.35	640389-8
		9	1.404 (35.66)	A19923-ND	1.03	23.15	640389-9
		10	1.560 (39.62)	A1980-ND	1.16	25.99	1-640389-0
		11	1.716 (43.59)	A19924-ND	1.24	27.88	1-640389-1
		12	1.872 (47.55)	A19925-ND	1.39	31.19	1-640389-2
21	Right Angle Post .045" (1.14mm) Square, Front Bend, Standard UL94V-0, 30µ" Gold Plated, .125" (3.18mm) Soldertail, Natural	2	.312 (7.92)	A31688-ND	1.09	24.44	3-641210-2
		3	.468 (11.89)	A31689-ND	1.37	30.90	3-641210-3
		4	.624 (15.85)	A31690-ND	1.92	43.19	3-641210-4
		5	.780 (19.81)	A31691-ND	2.33	52.39	3-641210-5
		6	.936 (23.77)	A31692-ND	2.80	63.01	3-641210-6
		8	1.248 (31.70)	A31693-ND	3.52	79.29	3-641210-8
		9	1.404 (35.66)	A31694-ND	4.00	89.91	3-641210-9
		10	1.560 (39.62)	A31695-ND	5.43	122.20	4-641210-0
		12	1.872 (47.55)	A31696-ND	5.29	118.94	4-641210-2
22	Right Angle Post .045" (1.14mm) Square, Rear Bend, Standard UL94V-0, Tin-Plated, .125" (3.18mm) Soldertail, Natural	2	—	A19930-ND	.36	8.03	640387-2
		3	—	A19931-ND	.42	9.45	640387-3
		4	—	A19932-ND	.50	11.34	640387-4
		5	—	A19933-ND	.84	18.90	640387-5
		6	—	A19934-ND	.99	22.21	640387-6
		7	—	A19935-ND	1.01	22.68	640387-7
		8	—	A19936-ND	1.03	23.15	640387-8
		9	—	A19937-ND	1.11	25.04	640387-9
		10	—	A19938-ND	1.24	27.88	1-640387-0
		11	—	A19939-ND	1.34	30.24	1-640387-1
		12	—	A19940-ND	1.47	33.08	1-640387-2

AMP 2-Position, Low Profile Post Shunts

Material:
- **Housing:** Glass-filled thermoplastic, 94V-0 rated
- **Contact:** Beryllium copper or phosphor bronze
- **Finish:** (50µ) nickel with gold plate in contact area or tin plate overall

Fig. 1

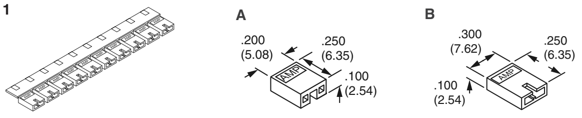

Fig. 2

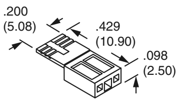

Fig. 3

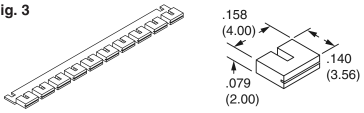

Fig.	Description	Housing Color	Digi-Key Part No.	Pricing 10	Pricing 50	AMP Part No.
Economy, .100 (2.54mm) Centerline						
1A	Strip, Gold Flash, (5µ) over Nickel	Black	A26228-ND	2.18	8.73	382811-8
	Strip, Gold Plate, (15µ) over Nickel	Blue	A26226-ND	12.95	51.82	382811-2
	Strip, Gold Plate, (15µ) over Nickel	Black	A26227-ND	2.39	9.54	382811-6
	Strip, Gold Plate, (15µ) over Nickel	Red	A26230-ND	3.16	12.65	382811-9
	Loose Piece, Gold Plate, (15µ) over Nickel	Black	A26231-ND	9.64	38.56	1-382811-6
	Strip, Tin Plate, (100µ) over Nickel	Black	A31697-ND	1.09	4.35	2-382811-1
Standard Housing, .200 (5.08mm) Centerline						
1B	Strip, Gold Plate, (15µ) over Nickel	Black	A26232-ND	10.95	43.80	531230-2
	Strip, Gold Plate, (30µ) over Nickel	Black	A26233-ND	12.58	50.30	531230-3
	Strip, Tin Plate, (100µ) over Nickel	Black	A31698-ND	9.18	36.72	531230-4
Handle, .100 (2.54mm) Centerline						
2	Open Top and Gold Plate, (30µ) over Nickel	Black	A26242-ND	1.91	7.65	881545-2
	Open Top and Tin Plate, (100µ) over Nickel	Black	A26853-ND	1.93	7.71	4-881545-2
2mm Mini-Shunt, .079 (2.00mm) Centerline						
3	Strip, Gold Plate, (15µ) over Nickel	Black	A26244-ND	7.00	28.00	382575-2

AMP Economy Power (EP) Wire-to-Board Connector System

Features: • .156 (3.96) and .312 (7.92) centerlines • Positive locking • Vertical headers are end-to-end stackable • UL File No. E28476 • CSA File No. LR7189 • Use .156 (3.96) receptacles for .312 (7.92) headers

Specifications: • **Voltage Rating:** 250VAC • **Current Rating:** 8 amp maximum (1 pos.); 7.5 amp maximum (2 ~ 11 position) • 22 - 18AWG • **Receptacle Contact:** Phosphor Bronze/Tin • **Post Contact:** Tin Plated • **Durability:** 50 mating and unmating cycles • **Operating Temperature:** -25°C ~ 105°C

Dimensions in mm

Fig. 1

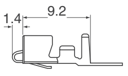

Fig. 2

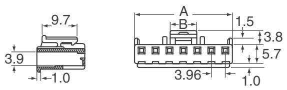

Fig. 3

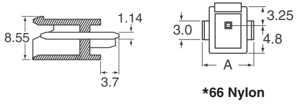

*66 Nylon

Fig. 4

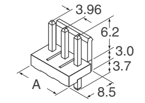

Fig. 5

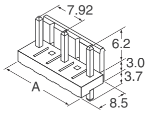

Fig. 6

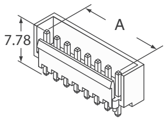

Fig.	Description	Digi-Key Part No.	Loose Pc. Pricing 1	Loose Pc. Pricing 25	AMP Part No.	Digi-Key Part No.	T & R Pricing 4,000	AMP Part No.
1	Contact	A30499-ND◆	.34	3.88	1318912-1	A30499TR-ND◆	95.84/M	1123721-1

Fig.	Dimensions A	Dimensions B	No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Plug Housing (66 Nylon, UL94V-0, Natural) — RoHS Compliant							
2	7.86	3.60	2	A30501-ND	.30	2.73	1-1123722-2
	11.82	7.50	3	A30502-ND	.29	3.16	1-1123722-3
	15.78	7.50	4	A30503-ND	.29	4.42	1-1123722-4
	19.74	7.50	5	A30504-ND	.29	5.85	1-1123722-5
	23.70	7.50	6	A30505-ND	.31	6.97	1-1123722-6
	27.66	7.50	7	A30506-ND	.36	8.11	1-1123722-7
	31.62	7.50	8	A30507-ND	.41	9.24	1-1123722-8
	35.58	7.50	9	A30508-ND	.47	10.74	1-1123722-9
	39.54	7.50	10	A30509-ND	.54	12.29	1-1123722-0
	43.50	7.50	11	A30510-ND	.65	14.67	1-1123722-1
Headers (Glass Reinforced PBT, UL94V-0, Natural)							
3	6.2	—	1	A30708-ND◆*	.60	13.45	1-1123824-1
4	7.86	—	2	A30511-ND◆	.14	3.09	1-1318300-2
	11.82	—	3	A30512-ND◆	.19	4.38	1-1318300-3
	15.78	—	4	A30513-ND◆	.26	5.94	1-1318300-4
	19.74	—	5	A30514-ND◆	.29	6.48	1-1318300-5
	23.70	—	6	A30515-ND◆	.42	9.52	1-1318300-6
	27.66	—	7	A30516-ND◆	.76	17.16	1-1318300-7
	31.62	—	8	A30517-ND◆	.60	13.54	1-1318300-8
	35.58	—	9	A30518-ND	.47	10.56	1-1318300-9
	39.54	—	10	A30519-ND◆	.57	12.90	1-1318300-0
	43.50	—	11	A30520-ND◆	.64	14.34	1-1318300-1
5	11.82	—	2	A30521-ND	.54	12.14	1-1318301-2
	19.74	—	3	A30522-ND	.27	6.13	1-1318301-3
	27.66	—	4	A30523-ND◆	.56	12.69	1-1318301-4
	35.58	—	5	A30524-ND	.33	7.37	1-1318301-5
6	3.96	—	2	A99845-ND◆	.27	6.16	1877285-2
	7.92	—	3	A99846-ND◆	.31	7.05	1877285-3
	11.88	—	4	A99847-ND◆	.39	8.81	1877285-4
	15.84	—	5	A99848-ND◆	.46	10.24	1877285-5
	19.80	—	6	A99849-ND◆	.50	11.22	1877285-6
	23.76	—	7	A99850-ND◆	.62	13.96	1877285-7
	27.72	—	8	A99851-ND◆	.67	15.12	1877285-8
	31.68	—	9	A99852-ND◆	.84	18.99	1877285-9
	35.64	—	10	A99853-ND◆	.89	20.02	1-1877285-0
	39.60	—	11	A99854-ND◆	.94	21.08	1-1877285-1
	43.56	—	12	A99855-ND◆	.98	22.11	1-1877285-2
Tool							
Hand Crimp Tool, EP				A30527-ND	707.40	—	91579-1

◆ ***RoHS Compliant***

Tyco Electronics
Authorized Distributor

AMP Micro-Match Connectors

Features: • One of the smallest 1.27mm ribbon cable systems • Tin plated contact design • Fretting corrosion proof due to unique contact design
Specifications: • Housing: UL94V-0 Rated • Contacts: Tin-plated • Current Rating: 1.5A • Color: Red

RoHS COMPLIANT

Digi-Reel®

Fig. 1

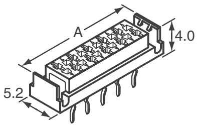

Shown with Locking Latches

Fig. 2

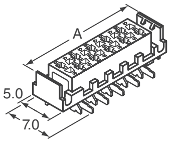

Shown with Locking Latches

Fig. 3

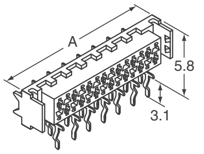

Shown with Locking Latches

Fig. 4

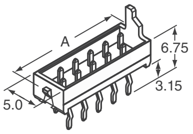

Fig. 5

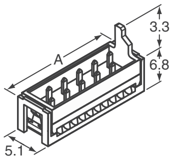

Fig. 6

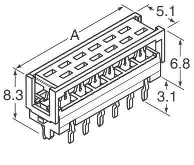

Fig. 7

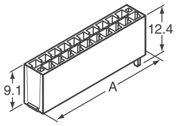

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	AMP Part No.
Fig 1 — Female-On-Board, Top Entry Through-Hole, without Locking Latches								
4	7.1	A99472CT-ND	1.01	.83	.61	250	122.77	7-215079-4
6	9.7	A30729CT-ND	1.29	1.06	.78	250	157.15	7-215079-6
8	12.2	A99471CT-ND	1.42	1.16	.85	250	171.87	7-215079-8
10	14.7	A99470CT-ND	1.66	1.35	1.00	250	201.34	8-215079-0
12	17.3	A99469CT-ND	1.90	1.55	1.15	250	230.80	8-215079-2
14	19.8	A99468CT-ND	2.14	1.75	1.29	250	260.27	8-215079-4
16	22.4	A99467CT-ND	2.39	1.95	1.44	250	289.74	8-215079-6
18	24.9	A99466CT-ND	2.63	2.15	1.58	250	319.20	8-215079-8
20	27.4	A99465CT-ND	2.87	2.34	1.73	250	348.67	9-215079-0
Fig. 1 — Female-On-Board, Top Entry Through-Hole, with Locking Latches								
4	9.7	A99438CT-ND	.51	.42	.31	2,500	202.98/M	338068-4
6	12.2	A99437CT-ND	.61	.50	.37	2,500	243.09/M	338068-6
8	14.7	A99436CT-ND	.69	.57	.42	2,500	276.24/M	338068-8
10	17.3	A99504CT-ND	1.05	.86	.63	2,500	419.42/M	1-338068-0
12	19.8	A99503CT-ND	1.15	.94	.69	2,500	458.88/M	1-338068-2
14	22.4	A99502CT-ND	1.33	1.09	.80	2,500	533.28/M	1-338068-4
16	24.9	A99501CT-ND	1.52	1.24	.92	2,500	607.72/M	1-338068-6
18	27.4	A99500CT-ND	1.71	1.39	1.03	2,500	682.11/M	1-338068-8
20	30.0	A99499CT-ND	2.06	1.68	1.24	2,500	825.29/M	2-338068-0
Fig. 2 — Female-On-Board, Top Entry Surface Mount, without Locking Latches								
4	7.1	A99473CT-ND	1.05	.86	.63	900	389.63	7-188275-4
6	9.7	A99474CT-ND	1.48	1.21	.89	900	550.08	7-188275-6
8	12.2	A99475CT-ND	1.66	1.36	1.00	900	618.83	7-188275-8
10	14.7	A99476CT-ND	2.03	1.66	1.22	900	756.36	8-188275-0
12	17.3	A99477CT-ND	2.40	1.96	1.44	900	893.89	8-188275-2
14	19.8	A99478CT-ND	2.77	2.26	1.66	900	1031.39	8-188275-4
16	22.4	A99479CT-ND	3.14	2.56	1.89	900	1168.91	8-188275-6
18	24.9	A99480CT-ND	3.50	2.86	2.11	900	1306.42	8-188275-8
20	27.5	A99481CT-ND	3.87	3.16	2.33	900	1443.96	9-188275-0
Fig. 2 — Female-On-Board, Top Entry Surface Mount, with Locking Latches								
4	9.7	A99435CT-ND	1.17	.95	.70	900	434.92	7-338069-4
6	12.2	A99434CT-ND	1.71	1.40	1.03	900	637.86	7-338069-6
8	14.7	A99433CT-ND	1.94	1.59	1.17	900	724.84	7-338069-8
10	17.3	A99432CT-ND	2.41	1.97	1.45	900	898.81	8-338069-0
12	19.8	A99431CT-ND	2.88	2.35	1.73	900	1072.78	8-338069-2
14	22.4	A99430CT-ND	3.34	2.73	2.01	900	1246.72	8-338069-4
16	24.9	A99429CT-ND	3.81	3.11	2.29	900	1420.68	8-338069-6
18	27.4	A99428CT-ND	4.28	3.49	2.57	900	1594.63	8-338069-8
20	30.0	A99427CT-ND	4.74	3.87	2.85	900	1768.61	9-338069-0
Fig. 3 — Female-On-Board, Side Entry Through-Hole, without Locking Latches								
4	7.1	A99455CT-ND	1.12	.92	.68	250	135.93	7-215460-4
6	9.7	A30730CT-ND	1.36	1.12	.82	250	165.69	7-215460-6
8	12.2	A99454CT-ND	1.69	1.38	1.02	250	204.64	7-215460-8
10	14.7	A99453CT-ND	1.94	1.58	1.17	250	235.45	8-215460-0
12	17.3	A99452CT-ND	2.29	1.87	1.38	250	277.88	8-215460-2
14	19.8	A99451CT-ND	2.63	2.15	1.58	250	319.74	8-215460-4
16	22.4	A99450CT-ND	2.98	2.43	1.79	250	362.17	8-215460-6
18	24.9	A99449CT-ND	3.56	2.90	2.14	250	432.20	8-215460-8
20	27.4	A99448CT-ND	3.68	3.00	2.21	250	447.06	9-215460-0
Fig. 3 — Female-On-Board, Side Entry Through-Hole, with Locking Latches								
4	9.7	A99482CT-ND	1.25	1.02	.76	1,500	500.06/M	338070-4
6	12.2	A99483CT-ND	1.83	1.50	1.11	2,500	733.41/M	338070-6
8	14.7	A99484CT-ND	2.08	1.70	1.26	2,500	833.44/M	338070-8
10	17.3	A99485CT-ND	2.58	2.11	1.56	2,500	1033.46/M	1-338070-0
12	19.8	A99486CT-ND	3.08	2.52	1.86	2,500	1233.48/M	1-338070-2
14	22.4	A99487CT-ND	3.58	2.92	2.16	2,500	1433.48/M	1-338070-4
16	24.9	A99488CT-ND	4.08	3.33	2.46	2,500	1633.51/M	1-338070-6
18	27.4	A99489CT-ND	4.20	3.43	2.53	2,500	1680.73/M	1-338070-8
Fig. 4 — Male-On-Board, Top Entry Through-Hole								
4	8.2	A99447CT-ND	1.28	1.04	.77	1,000	468.20	7-215464-4
8	13.3	A99445CT-ND	1.67	1.36	1.01	250	202.49	7-215464-8
10	15.8	A99444CT-ND	1.84	1.50	1.11	250	223.72	8-215464-0
12	18.3	A99443CT-ND	2.16	1.77	1.30	250	262.72	8-215464-2
14	20.8	A99442CT-ND	2.37	1.93	1.43	250	287.67	8-215464-4
16	23.4	A99441CT-ND	2.60	2.12	1.57	250	316.12	8-215464-6
18	25.9	A99440CT-ND	2.91	2.38	1.75	250	353.65	8-215464-8
20	28.4	A99439CT-ND	3.10	2.53	1.86	250	376.41	9-215464-0
Fig. 5 — Male-On-Wire IDC Connectors								
4	8.6	A99464CT-ND	1.11	.91	.67	250	134.33	7-215083-4
6	11.1	A99463CT-ND	1.44	1.18	.87	250	175.41	7-215083-6
8	13.6	A99462CT-ND	1.56	1.27	.94	250	189.26	7-215083-8
10	16.2	A99461CT-ND	1.79	1.46	1.08	250	216.96	8-215083-0
12	18.7	A99460CT-ND	2.01	1.65	1.21	250	244.65	8-215083-2
14	21.3	A99459CT-ND	2.24	1.83	1.35	250	272.35	8-215083-4
16	23.8	A99458CT-ND	2.47	2.02	1.49	250	300.05	8-215083-6
18	26.3	A99457CT-ND	2.66	2.17	1.60	250	323.13	8-215083-8
20	28.9	A99456CT-ND	2.89	2.36	1.74	250	350.82	9-215083-0
Fig. 6 — Paddle Board, Through-Hole IDC Connectors								
4	8.6	A99426CT-ND	1.25	1.02	.75	250	151.47	7-215570-4
6	11.1	A99425CT-ND	1.63	1.33	.98	250	197.81	7-215570-6
8	13.6	A99424CT-ND	1.76	1.44	1.06	250	213.42	7-215570-8
10	16.2	A99423CT-ND	2.01	1.65	1.21	250	244.66	8-215570-0
12	18.7	A99422CT-ND	2.27	1.85	1.37	250	275.88	8-215570-2
14	21.3	A99421CT-ND	2.53	2.06	1.52	250	307.12	8-215570-4
16	23.8	A99420CT-ND	2.79	2.27	1.68	250	338.36	8-215570-6
18	26.3	A99419CT-ND	3.74	3.05	2.25	250	454.73	8-215570-8
20	28.9	A99418CT-ND	3.26	2.66	1.96	250	395.61	9-215570-0
Fig. 7 — Contact Housings — Discrete Wire								
4	8.4	A99417-ND§	.42	.34	.27	—	—	338095-4
6	10.9	A99416-ND§	.48	.39	.31	—	—	338095-6
8	13.5	A99415-ND§	.76	.61	.49	—	—	338095-8
10	16.0	A99498-ND§	.83	.67	.53	—	—	1-338095-0
12	18.5	A99497-ND§	1.05	.84	.68	—	—	1-338095-2
14	21.1	A99496-ND§	1.17	.94	.75	—	—	1-338095-4
16	23.6	A99495-ND§	1.32	1.06	.85	—	—	1-338095-6
18	26.2	A99494-ND§	1.46	1.17	.94	—	—	1-338095-8
20	28.7	A99493-ND§	1.58	1.27	1.02	—	—	2-338095-0
Contacts								
24 ~ 28AWG Pre-Tin		A99492CT-ND	.23	.19	.14	750	70.43	1-338096-1
20 ~ 24AWG Pre-Tin		A99491CT-ND	.25	.21	.15	750	76.68	1-338097-1
NEW! Tool NEW!								
Basic Tooling Kit		A99899-ND§	791.15	—	—	—	—	734155-1

‡ For Tape and Reel part number, change CT-ND to TR-ND. § Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex® Micro-Fit 3.0™ Connectors

Features: • Fully isolated contacts • Fully polarized to mating receptacle • Integral pull tabs for ease in unmating **Electrical:** Series 43645, 43650, 43025 and 43045 are 600V; Series 43020 is 350V **Current:** 5.0A maximum **Contact Resistance:** 10mΩ maximum **Dielectric Withstanding Voltage:** Series 43645, 43650, 43025 and 43045 are 2200VAC; Series 43020 is 1700VAC **Insulation Resistance:** 1,000MΩ minimum

Physical: Housing: UL94V-0 Brass **Plating:** Tin or Gold
BMI Features and Benefits: Connectors float in panel cutout up to 1.27mm (.050") in any direction. Use standard Micro-Fit terminals. Innovative panel mounting design holds connectors firmly in place. Fully isolated contacts prevent terminal damage. Fully polarized to completely prevent mismating.

Fig. 1

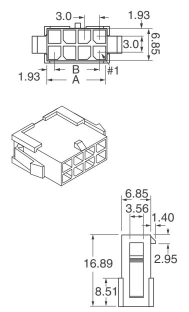

Fig. 2

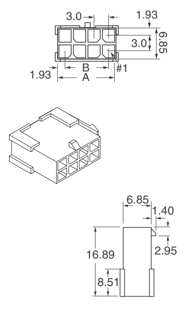

Fig. 3

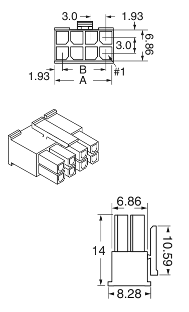

Fig. 4

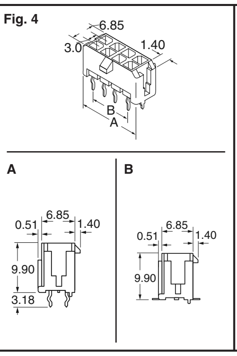

Fig. 5

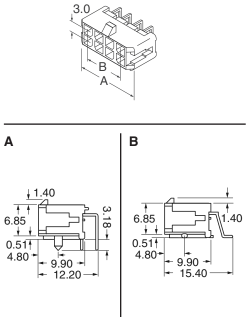

Fig. 6 – Blind Mate

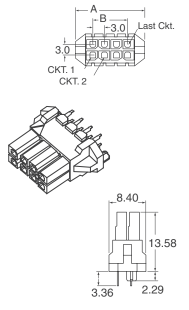

Fig.	Circuits	Dimensions - mm		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
Plug Housing — Panel Mount (uses male terminal) — RoHS Compliant									
1	2	3.85	—	—	WM1777-ND	.48	.43	.29	43020-0200
	4	6.85	3.00	—	WM1778-ND	.56	.50	.33	43020-0400
	6	9.85	6.00	—	WM1779-ND	.67	.60	.40	43020-0600
	8	12.85	9.00	—	WM1780-ND	.77	.68	.46	43020-0800
	10	15.85	12.00	—	WM1781-ND	.89	.79	.53	43020-1000
	12	18.85	15.00	—	WM1782-ND	1.05	.93	.62	43020-1200
	14	21.85	18.00	—	WM2483-ND	1.24	1.10	.73	43020-1400
	16	24.85	21.00	—	WM2484-ND	1.43	1.27	.85	43020-1600
	18	27.85	24.00	—	WM2485-ND	1.61	1.42	.95	43020-1800
	20	30.85	27.00	—	WM2486-ND	1.79	1.58	1.06	43020-2000
	22	33.85	30.00	—	WM2487-ND	1.96	1.74	1.16	43020-2200
	24	36.85	33.00	—	WM2488-ND	2.15	1.90	1.27	43020-2400
Plug Housing — Free Hanging (uses male terminal) — RoHS Compliant									
2	2	3.86	—	—	WM2761-ND	.60	.38	.22	43020-0201
	4	6.85	3.00	—	WM2772-ND	.50	.45	.30	43020-0401
	6	9.85	6.00	—	WM2762-ND	.77	.48	.28	43020-0601
	8	12.85	9.00	—	WM2763-ND	.69	.61	.41	43020-0801
	10	15.85	12.00	—	WM2764-ND	.80	.71	.47	43020-1001
	12	18.85	15.00	—	WM2765-ND	.94	.84	.56	43020-1201
	14	21.85	18.00	—	WM2766-ND	1.11	.98	.66	43020-1401
	16	24.85	21.00	—	WM2767-ND	1.28	1.14	.76	43020-1601
	18	27.85	24.00	—	WM2768-ND	1.44	1.27	.85	43020-1801
	20	30.85	27.00	—	WM2769-ND	1.60	1.41	.94	43020-2001
	22	33.85	30.00	—	WM2770-ND	1.75	1.55	1.04	43020-2201
	24	36.85	33.00	—	WM2771-ND	1.92	1.70	1.13	43020-2401
Receptacle Housing (uses female terminal) — RoHS Compliant									
3	2	3.85	—	—	WM1783-ND	.60	.38	.22	43025-0200
	4	6.85	3.00	—	WM1784-ND	.81	.51	.29	43025-0400
	6	9.85	6.00	—	WM1785-ND	.83	.52	.30	43025-0600
	8	12.85	9.00	—	WM1786-ND	.79	.56	.38	43025-0800
	10	15.85	12.00	—	WM1787-ND	1.30	.81	.47	43025-1000
	12	18.85	15.00	—	WM1788-ND	1.05	.93	.62	43025-1200
	14	21.85	18.00	—	WM2489-ND	1.12	.88	.67	43025-1400
	16	24.85	21.00	—	WM2490-ND	1.43	1.27	.85	43025-1600
	18	27.85	24.00	—	WM2491-ND	1.61	1.42	.95	43025-1800
	20	30.85	27.00	—	WM2492-ND	1.79	1.58	1.06	43025-2000
	22	33.85	30.00	—	WM2493-ND	1.96	1.74	1.16	43025-2200
	24	36.85	33.00	—	WM2494-ND	2.15	1.90	1.27	43025-2400
Vertical Header — Through-Hole with Offset Terminal Retention — RoHS Compliant									
4A	2	6.65	—	Tin	WM1789-ND	1.08	.76	.51	43045-0212
	4	9.65	3.00	Tin	WM1790-ND	1.29	1.14	.76	43045-0412
	6	12.65	6.00	Tin	WM1791-ND	1.65	1.29	.98	43045-0612
	8	15.65	9.00	Tin	WM1792-ND	1.98	1.76	1.17	43045-0812
	10	18.65	12.00	Tin	WM1793-ND	2.32	2.06	1.37	43045-1012
	12	21.65	15.00	Tin	WM1794-ND	2.66	2.36	1.57	43045-1212
	14	24.65	18.00	Tin	WM4711-ND	3.02	2.67	1.78	43045-1412
	16	27.65	21.00	Tin	WM4712-ND	3.36	2.97	1.98	43045-1612
	18	30.65	24.00	Tin	WM4713-ND	3.78	3.34	2.23	43045-1812
	20	33.65	27.00	Tin	WM4714-ND	4.20	3.71	2.48	43045-2012
	22	36.65	30.00	Tin	WM4715-ND	4.62	4.08	2.72	43045-2212
	24	39.65	33.00	Tin	WM4716-ND	5.04	4.45	2.97	43045-2412
	2	6.65	—	Gold, 30µ"	WM1795-ND	1.47	1.30	.87	43045-0214
	4	9.65	3.00	Gold, 30µ"	WM1796-ND	2.03	1.79	1.20	43045-0414
	6	12.65	6.00	Gold, 30µ"	WM1797-ND	2.58	2.28	1.52	43045-0614
	8	15.65	9.00	Gold, 30µ"	WM1798-ND	3.12	2.76	1.84	43045-0814
	10	18.65	12.00	Gold, 30µ"	WM1799-ND	3.67	3.24	2.16	43045-1014
	12	21.65	15.00	Gold	WM1800-ND	4.21	3.72	2.48	43045-1214
	14	24.65	18.00	Gold	WM4717-ND	4.76	4.21	2.81	43045-1414
	16	27.65	21.00	Gold	WM4718-ND	5.29	4.67	3.12	43045-1614
	18	30.65	24.00	Gold	WM4719-ND	5.95	5.26	3.51	43045-1814
	20	33.65	27.00	Gold	WM4720-ND	7.35	6.49	4.33	43045-2014
	22	36.65	30.00	Gold	WM4721-ND	7.28	6.43	4.29	43045-2214
	24	39.65	33.00	Gold	WM4722-ND	7.94	7.01	4.67	43045-2414
Vertical Header — SMT with Fitting Nails — RoHS Compliant									
4B	2	6.65	—	Tin	WM1801-ND	2.97	2.62	1.75	43045-0218
4B	4	9.65	3.00	Tin	WM1802-ND	3.44	3.04	2.03	43045-0418
	6	12.65	6.00	Tin	WM1803-ND	3.90	3.44	2.30	43045-0618
	8	15.65	9.00	Tin	WM1804-ND	4.47	3.95	2.63	43045-0818
	10	18.65	12.00	Tin	WM1805-ND	4.92	4.35	2.90	43045-1018
	12	21.65	15.00	Gold, 30µ"	WM1806-ND	5.37	4.75	3.17	43045-1218
	2	6.65	—	Gold, 30µ"	WM1807-ND	3.67	3.24	2.16	43045-0220
	4	9.65	3.00	Gold, 30µ"	WM1808-ND	4.42	3.90	2.60	43045-0420
	6	12.65	6.00	Gold, 30µ"	WM1809-ND	5.15	4.55	3.03	43045-0620
	8	15.65	9.00	Gold, 30µ"	WM1810-ND	5.98	5.28	3.52	43045-0820-P
	10	18.65	12.00	Gold, 30µ"	WM1811-ND	6.71	5.92	3.95	43045-1020
	12	21.65	15.00	Gold, 30µ"	WM1812-ND	7.42	6.55	4.37	43045-1220
Vertical Header — SMT with Fitting Nails — RoHS Compliant									
4B	2	6.65	—	Gold, 15µ"	WM2660CT-ND‡	2.92	2.58	1.72	43045-0219
	2	6.65	—	Gold, 15µ"	WM2660TR-ND†	240.60/200			43045-0219
	4	9.65	3.00	Gold, 15µ"	WM2661CT-ND‡	3.45	3.05	2.03	43045-0419
	4	9.65	3.00	Gold, 15µ"	WM2661TR-ND†	284.20/200			43045-0419
	6	12.65	6.00	Gold, 15µ"	WM2662CT-ND‡	3.97	3.51	2.34	43045-0619
	6	12.65	6.00	Gold, 15µ"	WM2662TR-ND†	326.80/200			43045-0619
	8	15.65	9.00	Gold, 15µ"	WM2663CT-ND‡	4.58	4.04	2.70	43045-0819
	8	15.65	9.00	Gold, 15µ"	WM2663TR-ND†	377.00/200			43045-0819
	10	18.65	12.00	Gold, 15µ"	WM2664CT-ND‡	5.10	4.50	3.00	43045-1019
	10	18.65	12.00	Gold, 15µ"	WM2664TR-ND†	419.60/200			43045-1019
	12	21.65	15.00	Gold, 15µ"	WM2665CT-ND‡	5.59	4.94	3.30	43045-1219
	12	21.65	15.00	Gold, 15µ"	WM2665TR-ND†	460.80/200			43045-1219
	14	24.65	18.00	Gold, 15µ"	WM2666CT-ND‡	6.12	5.40	3.60	43045-1419
	14	24.65	18.00	Gold, 15µ"	WM2666TR-ND†	503.80/200			43045-1419
	16	27.65	21.00	Gold, 15µ"	WM2667CT-ND‡	4.46	4.08	3.11	43045-1619
	16	27.65	21.00	Gold, 15µ"	WM2667TR-ND†	635.15/200			43045-1619
	18	30.65	24.00	Gold, 15µ"	WM2668CT-ND‡	7.37	6.50	4.34	43045-1819
	18	30.65	24.00	Gold, 15µ"	WM2668TR-ND†	606.60/200			43045-1819
	20	33.65	27.00	Gold, 15µ"	WM2669CT-ND‡	7.99	7.06	4.71	43045-2019
	20	33.65	27.00	Gold, 15µ"	WM2669TR-ND†	658.20/200			43045-2019
	22	36.65	30.00	Gold, 15µ"	WM2670CT-ND‡	8.61	7.60	5.07	43045-2219
	22	36.65	30.00	Gold, 15µ"	WM2670TR-ND†	709.00/200			43045-2219
	24	39.65	33.00	Gold, 15µ"	WM2671CT-ND‡	9.24	8.16	5.44	43045-2419
	24	39.65	33.00	Gold, 15µ"	WM2671TR-ND†	761.00/200			43045-2419
Vertical Header — Through-Hole — RoHS Compliant									
4A	2	6.65	—	Gold, 15µ"	WM2648-ND	1.16	1.03	.69	43045-0213
	4	9.65	3.00	Gold, 15µ"	WM2649-ND	1.61	1.42	.95	43045-0413
	6	12.65	6.00	Gold, 15µ"	WM2650-ND	2.04	1.81	1.21	43045-0613
	8	15.65	9.00	Gold, 15µ"	WM2651-ND	2.48	2.19	1.46	43045-0813
	10	18.65	12.00	Gold, 15µ"	WM2652-ND	2.91	2.58	1.72	43045-1013
	12	21.65	15.00	Gold, 15µ"	WM2653-ND	3.34	2.95	1.97	43045-1213
	14	24.65	18.00	Gold, 15µ"	WM2654-ND	3.78	3.34	2.23	43045-1413
	16	27.65	21.00	Gold, 15µ"	WM2655-ND	4.20	3.71	2.48	43045-1613
	18	30.65	24.00	Gold, 15µ"	WM2656-ND	4.73	4.18	2.79	43045-1813
	20	33.65	27.00	Gold, 15µ"	WM2657-ND	5.25	4.64	3.09	43045-2013
	22	36.65	30.00	Gold, 15µ"	WM2658-ND	5.78	5.10	3.40	43045-2213
	24	39.65	33.00	Gold, 15µ"	WM2659-ND	6.31	5.57	3.71	43045-2413
Right Angle Header — Through-Hole with PCB Pegs — RoHS Compliant									
5A	2	6.65	—	Tin	WM1813-ND	1.00	.78	.60	43045-0200
	4	9.65	3.00	Tin	WM1814-ND	1.57	1.23	.94	43045-0400
	6	12.65	6.00	Tin	WM1815-ND	1.70	1.42	1.05	43045-0600
	8	15.65	9.00	Tin	WM1816-ND	2.40	2.12	1.42	43045-0800
	10	18.65	12.00	Tin	WM1817-ND	2.81	2.49	1.66	43045-1000
	12	21.65	15.00	Tin	WM1818-ND	3.23	2.85	1.91	43045-1200
	14	24.65	18.00	Tin	WM4723-ND	3.65	3.22	2.15	43045-1400
	16	27.65	21.00	Tin	WM4724-ND	4.07	3.60	2.40	43045-1600
	18	30.65	24.00	Tin	WM4725-ND	4.58	4.04	2.70	43045-1800
	20	33.65	27.00	Tin	WM4726-ND	5.09	4.50	3.00	43045-2000
	22	36.65	30.00	Tin	WM4727-ND	5.60	4.94	3.30	43045-2200
	24	39.65	33.00	Tin	WM4728-ND	6.11	5.40	3.60	43045-2400
	2	6.65	—	Gold, 30µ"	WM1819-ND	1.79	1.58	1.06	43045-0202
	4	9.65	3.00	Gold, 30µ"	WM1820-ND	2.45	2.17	1.45	43045-0402
	6	12.65	6.00	Gold, 30µ"	WM1821-ND	3.10	2.74	1.83	43045-0602

‡ Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 7 – Blind Mate

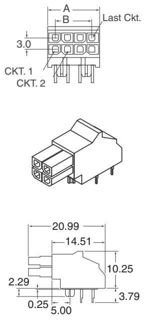

Fig. 8 – Blind Mate

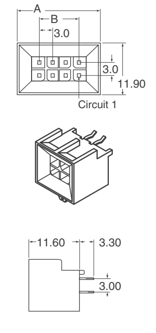

Fig. 9 – Blind Mate

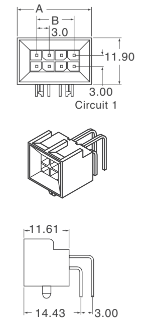

Fig. 10

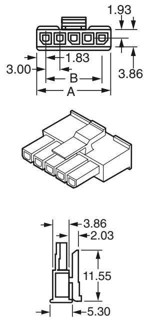

Fig. 11

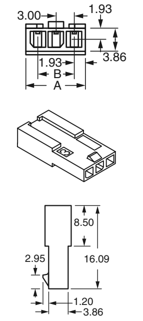

Fig. 12

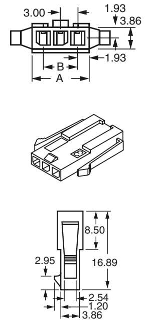

Fig. 13

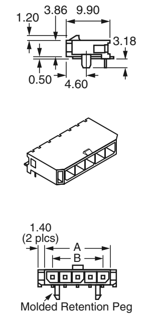

Fig. 14

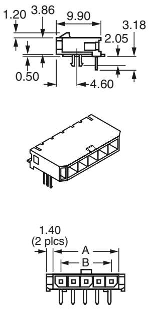

Fig.	Cir-cuits	Dimensions - mm		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
5A	8	15.65	9.00	Gold, 30µ"	WM1822-ND	3.78	3.34	2.23	43045-0802
	10	18.65	12.00	Gold, 30µ"	WM1823-ND	4.43	3.91	2.61	43045-1002
	12	21.65	15.00	Gold, 30µ"	WM1824-ND	5.70	5.03	3.36	43045-1202
	14	24.65	18.00	Gold, 30µ"	WM4729-ND	5.75	5.07	3.38	43045-1402
	16	27.65	21.00	Gold, 30µ"	WM4730-ND	6.41	5.66	3.78	43045-1602
	18	30.65	24.00	Gold, 30µ"	WM4731-ND	7.21	6.37	4.25	43045-1802
	20	33.65	27.00	Gold, 30µ"	WM4732-ND	8.02	7.08	4.72	43045-2002
	22	36.65	30.00	Gold, 30µ"	WM4733-ND	8.82	7.79	5.19	43045-2202
	24	39.65	33.00	Gold, 30µ"	WM4734-ND	9.63	8.50	5.67	43045-2402
Right Angle Header — Through-Hole with PCB Clips — RoHS Compliant									
5A	2	6.65	—	Tin	WM2672-ND	1.46	1.29	.86	43045-0221
	4	9.65	3.00	Tin	WM2673-ND	1.93	1.70	1.14	43045-0421
	6	12.65	6.00	Tin	WM2674-ND	2.17	1.92	1.28	43045-0621
	8	15.65	9.00	Tin	WM2675-ND	2.60	2.30	1.53	43045-0821
	10	18.65	12.00	Tin	WM2676-ND	3.32	2.94	1.96	43045-1021
	12	21.65	15.00	Tin	WM2677-ND	3.79	3.35	2.23	43045-1221
Right Angle Header — SMT with Fitting Nails — RoHS Compliant									
5B	2	6.65	—	Tin	WM1825-ND	3.01	2.66	1.78	43045-0209
	4	9.65	3.00	Tin	WM1826-ND	3.65	3.22	2.15	43045-0409
	6	12.65	6.00	Tin	WM1827-ND	4.23	3.73	2.49	43045-0609
	8	15.65	9.00	Tin	WM1828-ND	4.95	4.37	2.92	43045-0809
	10	18.65	12.00	Tin	WM1829-ND	5.54	4.89	3.26	43045-1009
	12	21.65	15.00	Tin	WM1830-ND	6.11	5.39	3.60	43045-1209
	2	6.65	—	Gold, 30µ"	WM1831-ND	3.92	3.46	2.31	43045-0211
	4	9.65	3.00	Gold, 30µ"	WM1832-ND	4.89	4.32	2.88	43045-0411
	6	12.65	6.00	Gold, 30µ"	WM1833-ND	5.80	5.12	3.42	43045-0611
	8	15.65	9.00	Gold, 30µ"	WM1834-ND	6.88	6.07	4.05	43045-0811
	10	18.65	12.00	Gold, 30µ"	WM1835-ND	7.78	6.87	4.58	43045-1011
	12	21.65	15.00	Gold, 30µ"	WM1836-ND	8.70	7.68	5.12	43045-1211
Right Angle Header — Through-Hole w/PCB Clips — RoHS Compliant									
5A	2	6.65	—	Gold, 15µ"	WM2678-ND	1.62	1.43	.96	43045-0222
	4	9.65	3.00	Gold, 15µ"	WM2679-ND	2.36	2.08	1.39	43045-0422
	6	12.65	6.00	Gold, 15µ"	WM2680-ND	2.93	2.59	1.73	43045-0622
	8	15.65	9.00	Gold, 15µ"	WM2681-ND	3.54	3.12	2.08	43045-0822
	10	18.65	12.00	Gold, 15µ"	WM2682-ND	4.11	3.63	2.42	43045-1022
	12	21.65	15.00	Gold, 15µ"	WM2683-ND	4.69	4.14	2.76	43045-1222
BMI Vertical Receptacle Header with Friction Pegs (Blind Mate)									
6	4	12.00	3.00	Tin	WM1953-ND	2.60	2.29	1.53	44769-0401
	6	15.00	6.00	Tin	WM1954-ND◆	3.29	2.91	1.94	44769-0601
	8	18.00	9.00	Tin	WM1955-ND◆	4.00	3.53	2.36	44769-0801
	10	21.00	12.00	Tin	WM1956-ND◆	4.69	4.14	2.76	44769-1001
	12	24.00	15.00	Tin	WM1957-ND◆	5.37	4.74	3.16	44769-1201
	16	30.00	21.00	Tin	WM1959-ND	6.78	5.98	3.99	44769-1601
	4	12.00	3.00	Gold	WM1960-ND	3.24	2.87	1.91	44769-0402
	6	15.00	6.00	Gold	WM1961-ND◆	4.12	3.64	2.43	44769-0602
	8	18.00	9.00	Gold	WM1962-ND◆	5.00	4.42	2.95	44769-0802
	10	21.00	12.00	Gold	WM1963-ND◆	5.88	5.19	3.46	44769-1002
	12	24.00	15.00	Gold	WM1964-ND◆	6.73	5.94	3.96	44769-1202
	14	27.00	18.00	Gold	WM1965-ND◆	7.62	6.73	4.49	44769-1402
	16	30.00	21.00	Gold	WM1966-ND◆	8.47	7.48	4.99	44769-1602
BMI Right Angle Receptacle Header with Friction Pegs (Blind Mate)									
7	6	9.70	6.00	Tin	WM1982-ND◆	3.67	3.24	2.16	44764-0601
	10	15.70	12.00	Tin	WM1984-ND◆	5.25	4.64	3.09	44764-1001
	12	18.70	15.00	Tin	WM1985-ND◆	6.03	5.33	3.55	44764-1201
	14	21.70	18.00	Tin	WM1986-ND	6.81	6.01	4.01	44764-1401
	16	24.70	21.00	Tin	WM1987-ND	7.24	6.39	4.26	44764-1601
	6	9.70	6.00	Gold	WM1989-ND	4.60	4.06	2.71	44764-0602
	10	15.70	12.00	Gold	WM1991-ND◆	6.56	5.80	3.87	44764-1002
	14	21.70	18.00	Gold	WM1993-ND	8.51	7.51	5.01	44764-1402
BMI Vertical Header with Polarizing Pegs (Blind Mate)									
8	4	13.00	3.00	Tin	WM1967-ND	1.72	1.52	1.01	44432-0401
	6	16.00	6.00	Tin	WM1968-ND◆	2.18	1.93	1.29	44432-0601
	8	19.00	9.00	Tin	WM1969-ND◆	2.65	2.34	1.56	44432-0801
	10	22.00	12.00	Tin	WM1970-ND◆	3.10	2.74	1.83	44432-1001
	12	25.00	15.00	Tin	WM1971-ND◆	3.55	3.14	2.09	44432-1201
	16	31.00	21.00	Tin	WM1973-ND◆	4.48	3.96	2.64	44432-1601
	6	16.00	6.00	Gold	WM1975-ND◆	2.73	2.41	1.61	44432-0602
	8	19.00	9.00	Gold	WM1976-ND◆	3.31	2.92	1.95	44432-0802
8	10	22.00	12.00	Gold	WM1977-ND◆	3.89	3.43	2.29	44432-1002
	12	25.00	15.00	Gold	WM1978-ND◆	4.45	3.93	2.62	44432-1202
	14	28.00	18.00	Gold	WM1979-ND◆	5.04	4.45	2.97	44432-1402
	16	31.00	21.00	Gold	WM1980-ND◆	5.60	4.95	3.30	44432-1602
BMI Right Angle Header (Blind Mate)									
9	4	13.00	3.00	Tin	WM1995-ND◆	2.07	1.83	1.22	44428-0401
	6	16.00	6.00	Tin	WM1996-ND◆	2.62	2.32	1.55	44428-0601
	8	19.00	9.00	Tin	WM1997-ND◆	3.20	2.83	1.89	44428-0801
	10	22.00	12.00	Tin	WM1998-ND◆	3.75	3.31	2.21	44428-1001
	12	25.00	15.00	Tin	WM1999-ND◆	4.31	3.81	2.54	44428-1201
	14	28.00	18.00	Tin	WM2025-ND◆	4.86	4.30	2.87	44428-1401
	16	31.00	21.00	Tin	WM2026-ND◆	5.43	4.79	3.20	44428-1601
	4	13.00	3.00	Gold	WM2027-ND◆	2.59	2.29	1.53	44428-0402
	6	16.00	6.00	Gold	WM2028-ND◆	3.28	2.90	1.94	44428-0602
	8	19.00	9.00	Gold	WM2029-ND◆	4.01	3.54	2.36	44428-0802
	10	22.00	12.00	Gold	WM2030-ND◆	4.69	4.14	2.76	44428-1002
	12	25.00	15.00	Gold	WM2031-ND	5.38	4.76	3.17	44428-1202
	14	28.00	18.00	Gold	WM2032-ND◆	6.08	5.37	3.58	44428-1402
	16	31.00	21.00	Gold	WM2033-ND◆	6.79	5.99	4.00	44428-1602
Receptacle Housing — RoHS Compliant									
10	2	6.85	3.00	—	WM1845-ND	.60	.38	.22	43645-0200
	3	9.85	6.00	—	WM1846-ND	.66	.41	.24	43645-0300
	4	12.85	9.00	—	WM1847-ND	.56	.50	.33	43645-0400
	5	15.85	12.00	—	WM1848-ND	.62	.55	.37	43645-0500
	6	18.85	15.00	—	WM1849-ND	.70	.49	.33	43645-0600
	7	21.85	18.00	—	WM2405-ND	.72	.64	.43	43645-0700
	8	24.85	21.00	—	WM2406-ND	.77	.68	.46	43645-0800
	9	27.85	24.00	—	WM2407-ND	.83	.74	.50	43645-0900
	10	30.85	27.00	—	WM2408-ND	.89	.79	.53	43645-1000
	11	33.85	30.00	—	WM2409-ND	.97	.86	.58	43645-1100
	12	36.85	33.00	—	WM2410-ND	1.05	.93	.62	43645-1200
Plug Housing without Panel Mounts — RoHS Compliant									
11	2	6.85	3.00	—	WM1855-ND	.70	.44	.25	43640-0201
	3	9.85	6.00	—	WM1856-ND	.75	.47	.27	43640-0301
	4	12.85	9.00	—	WM1857-ND	.56	.50	.33	43640-0401
	5	15.85	12.00	—	WM1858-ND	.62	.55	.37	43640-0501
	6	18.85	15.00	—	WM1859-ND	.67	.60	.40	43640-0601
	7	21.85	18.00	—	WM2417-ND	.72	.64	.43	43640-0701
	8	24.85	21.00	—	WM2418-ND	.77	.68	.46	43640-0801
	10	30.85	27.00	—	WM2420-ND	.89	.79	.53	43640-1001
Plug Housing with Panel Mounts — RoHS Compliant									
12	2	6.85	3.00	—	WM1850-ND	.48	.43	.29	43640-0200
	3	9.85	6.00	—	WM1851-ND	.52	.46	.31	43640-0300
	4	12.85	9.00	—	WM1852-ND	.56	.50	.33	43640-0400
	5	15.85	12.00	—	WM1853-ND	.62	.55	.37	43640-0500
	6	18.85	15.00	—	WM1854-ND	.67	.60	.40	43640-0600
	8	24.85	21.00	—	WM2412-ND	.77	.68	.46	43640-0800
Right Angle Header — RoHS Compliant									
13	2	6.85	3.00	Tin	WM1860-ND	1.13	1.00	.67	43650-0200
	3	9.85	6.00	Tin	WM1861-ND	1.19	.92	.71	43650-0300
	4	12.85	9.00	Tin	WM1862-ND	1.56	1.38	.92	43650-0400
	5	15.85	12.00	Tin	WM1863-ND	1.76	1.56	1.04	43650-0500
	6	18.85	15.00	Tin	WM1864-ND	1.97	1.74	1.16	43650-0600
	7	21.85	18.00	Tin	WM2423-ND	2.19	1.93	1.29	43650-0700
	8	24.85	21.00	Tin	WM2424-ND	2.40	2.12	1.42	43650-0800
	9	27.85	24.00	Tin	WM2425-ND	2.61	2.31	1.54	43650-0900
	10	30.85	27.00	Tin	WM2426-ND	2.81	2.49	1.66	43650-1000
	12	36.85	33.00	Tin	WM2428-ND	3.23	2.85	1.91	43650-1200
	2	6.85	3.00	Gold	WM1865-ND	1.42	1.26	.84	43650-0201
	3	9.85	6.00	Gold	WM1866-ND	1.68	1.49	.99	43650-0301
	4	12.85	9.00	Gold	WM1867-ND	1.94	1.72	1.15	43650-0401
	5	15.85	12.00	Gold	WM1868-ND	2.21	1.95	1.30	43650-0501
	6	18.85	15.00	Gold	WM1869-ND	2.46	2.18	1.45	43650-0601
	7	21.85	18.00	Gold	WM2429-ND	2.74	2.42	1.61	43650-0701
	8	24.85	21.00	Gold	WM2430-ND	3.00	2.66	1.77	43650-0801
	10	30.85	27.00	Gold	WM2432-ND	3.52	3.11	2.07	43650-1001
	12	36.85	33.00	Gold	WM2434-ND	4.04	3.57	2.38	43650-1201
Right Angle Header with Retention Clips									
14	2	6.85	3.00	Tin	WM1870-ND◆	1.33	1.18	.79	43650-0203

‡ Cut Tape † Tape and Reel ◆ *RoHS Compliant*

(Continued)

molex Micro-Fit 3.0™ Connectors *(Cont.)*

Fig. 15

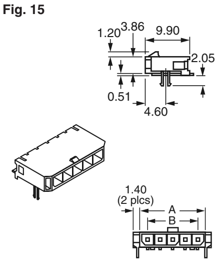

Fig. 16

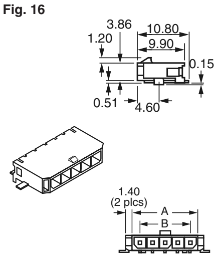

Fig. 17

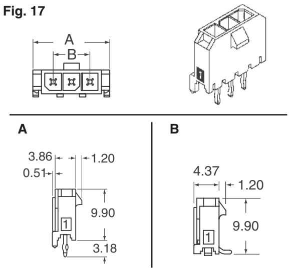

Fig. 18 – Blind Mate

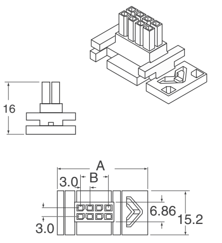

Fig. 19 – Blind Mate

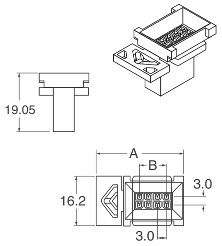

Fig.	Cir-cuits	Dimensions - mm A	Dimensions - mm B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
14	3	9.85	6.00	Tin	WM1871-ND◆	1.73	1.53	1.02	43650-0303
	4	12.85	9.00	Tin	WM1872-ND◆	1.75	1.55	1.04	43650-0403
	5	15.85	12.00	Tin	WM1873-ND◆	1.96	1.74	1.16	43650-0503
	6	18.85	15.00	Tin	WM1874-ND◆	2.42	2.14	1.43	43650-0603
	8	24.85	21.00	Tin	WM2436-ND◆	2.60	2.30	1.53	43650-0803
	10	30.85	27.00	Tin	WM2438-ND	3.01	2.66	1.78	43650-1003
	11	33.85	30.00	Tin	WM2439-ND	3.22	2.85	1.90	43650-1103
	2	6.85	3.00	Gold	WM1875-ND◆	1.62	1.43	.96	43650-0204
	3	9.85	6.00	Gold	WM1876-ND◆	1.88	1.66	1.11	43650-0304
	4	12.85	9.00	Gold	WM1877-ND◆	1.85	1.55	1.15	43650-0404
	5	15.85	12.00	Gold	WM1878-ND◆	2.69	2.38	1.59	43650-0504
	6	18.85	15.00	Gold	WM1879-ND◆	2.66	2.35	1.57	43650-0604
	7	21.85	18.00	Gold	WM2441-ND◆	3.24	2.86	1.91	43650-0704
	8	24.85	21.00	Gold	WM2442-ND◆	3.17	2.80	1.87	43650-0804
	10	30.85	27.00	Gold	WM2444-ND	3.67	3.25	2.17	43650-1004
	12	36.85	33.00	Gold	WM2446-ND	4.18	3.70	2.47	43650-1204
Right Angle Header — SMT with Retention Clips									
15	2	6.85	3.00	Tin	WM1880-ND◆	2.86	2.53	1.69	43650-0209
	3	9.85	6.00	Tin	WM1881-ND◆	3.18	2.81	1.88	43650-0309-P
	4	12.85	9.00	Tin	WM1882-ND◆	3.50	3.09	2.06	43650-0409
	5	15.85	12.00	Tin	WM1883-ND	3.79	3.35	2.23	43650-0509
	6	18.85	15.00	Tin	WM1884-ND	4.08	3.60	2.40	43650-0609
	7	21.85	18.00	Tin	WM2447-ND◆	3.65	3.22	2.15	43650-0709
	8	24.85	21.00	Tin	WM2448-ND◆	3.21	2.84	1.89	43650-0809
	9	27.85	24.00	Tin	WM2449-ND◆	4.30	3.80	2.53	43650-0909
	12	36.85	33.00	Tin	WM2452-ND	5.96	5.26	3.51	43650-1209
	2	6.85	3.00	Gold	WM1885-ND◆	3.26	2.88	1.92	43650-0210-P
	3	9.85	6.00	Gold	WM1886-ND◆	3.65	3.23	2.15	43650-0310
	4	12.85	9.00	Gold	WM1887-ND◆	4.04	3.57	2.38	43650-0410-P
	5	15.85	12.00	Gold	WM1888-ND◆	4.40	3.89	2.60	43650-0510
	6	18.85	15.00	Gold	WM1889-ND◆	4.77	4.21	2.81	43650-0610
	8	24.85	21.00	Gold	WM2454-ND	3.96	3.50	2.33	43650-0810
	10	30.85	27.00	Gold	WM2456-ND	6.35	5.61	3.74	43650-1010
Right Angle Header — SMT with Fitting Nails									
16	2	6.85	3.00	Tin	WM1890-ND◆	3.01	2.66	1.78	43650-0212
	3	9.85	6.00	Tin	WM1891-ND◆	3.33	2.94	1.96	43650-0312
	4	12.85	9.00	Tin	WM1892-ND◆	3.65	3.22	2.15	43650-0412
	5	15.85	12.00	Tin	WM1893-ND◆	3.94	3.48	2.32	43650-0512
	6	18.85	15.00	Tin	WM1894-ND◆	4.23	3.73	2.49	43650-0612
	7	21.85	18.00	Tin	WM2459-ND◆	4.59	4.05	2.70	43650-0712
	8	24.85	21.00	Tin	WM2460-ND◆	4.95	4.37	2.92	43650-0812
	9	27.85	24.00	Tin	WM2461-ND◆	5.25	4.64	3.09	43650-0912
	10	30.85	27.00	Tin	WM2462-ND◆	5.54	4.89	3.26	43650-1012
	11	33.85	30.00	Tin	WM2463-ND	5.83	5.15	3.43	43650-1112
	12	36.85	33.00	Tin	WM2464-ND◆	6.11	5.39	3.60	43650-1212
	2	6.85	3.00	Gold	WM1895-ND◆	3.41	3.01	2.01	43650-0213
	3	9.85	6.00	Gold	WM1896-ND◆	3.80	3.36	2.24	43650-0313
	4	12.85	9.00	Gold	WM1897-ND◆	4.19	3.70	2.47	43650-0413-P
	5	15.85	12.00	Gold	WM1898-ND◆	4.55	4.02	2.68	43650-0513
	6	18.85	15.00	Gold	WM1899-ND◆	4.92	4.34	2.90	43650-0613
	8	24.85	21.00	Gold	WM2466-ND◆	5.80	5.12	3.42	43650-0813
	10	30.85	27.00	Gold	WM2468-ND◆	6.50	5.74	3.83	43650-1013-P
	12	36.85	33.00	Gold	WM2470-ND◆	7.24	6.39	4.27	43650-1213
Vertical Header — Through-Hole, Wire-to-Board — RoHS Compliant									
17A	2	9.65	3.00	Tin	WM1917-ND	.93	.83	.55	43650-0215
	3	12.65	6.00	Tin	WM1918-ND	1.27	1.13	.75	43650-0315
	4	15.65	9.00	Tin	WM1919-ND	1.29	1.14	.76	43650-0415
	5	18.64	12.00	Tin	WM1920-ND	1.46	1.29	.86	43650-0515
	6	21.64	15.00	Tin	WM1921-ND	1.63	1.45	.97	43650-0615
	7	24.64	18.00	Tin	WM2471-ND	1.81	1.60	1.07	43650-0715
	8	27.64	21.00	Tin	WM2472-ND	1.98	1.76	1.17	43650-0815
	9	30.63	24.00	Tin	WM2473-ND	2.16	1.91	1.27	43650-0915
	10	33.66	27.00	Tin	WM2474-ND	2.32	2.06	1.37	43650-1015
	12	39.65	33.00	Tin	WM2476-ND	2.66	2.36	1.57	43650-1215
	2	9.65	3.00	Gold, 15µ"	WM1922-ND	1.16	1.03	.69	43650-0216
	3	12.65	6.00	Gold, 15µ"	WM1923-ND	1.39	1.23	.82	43650-0316
	4	15.65	9.00	Gold, 15µ"	WM1924-ND	1.61	1.42	.95	43650-0416
	5	18.64	12.00	Gold, 15µ"	WM1925-ND	1.83	1.62	1.08	43650-0516
	6	21.64	15.00	Gold, 15µ"	WM1926-ND	2.04	1.81	1.21	43650-0616
	7	24.64	18.00	Gold	WM2477-ND	2.27	2.00	1.34	43650-0716
	8	27.64	21.00	Gold	WM2478-ND	2.48	2.19	1.46	43650-0816
	9	30.63	24.00	Gold	WM2479-ND	2.70	2.38	1.59	43650-0916
	10	33.66	27.00	Gold	WM2480-ND	2.91	2.58	1.72	43650-1016
	12	39.65	33.00	Gold	WM2482-ND	3.35	2.96	1.98	43650-1216

Fig.	Cir-cuits	Dimensions - mm A	Dimensions - mm B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Vertical Header — SMT — RoHS Compliant									
17B	2	9.65	3.00	Tin	WM2627CT-ND‡	2.78	2.46	1.64	43650-0224
	2	9.65	3.00	Tin	WM2627TR-ND†	229.20/200			43650-0224
	3	12.65	6.00	Tin	WM2628CT-ND‡	2.29	1.94	1.50	43650-0324
	3	12.65	6.00	Tin	WM2628TR-ND†	320.40/200			43650-0324
	4	15.65	9.00	Tin	WM2629CT-ND‡	3.23	2.85	1.90	43650-0424
	4	15.65	9.00	Tin	WM2629TR-ND†	265.60/200			43650-0424
	5	18.64	12.00	Tin	WM2630CT-ND‡	3.44	3.04	2.03	43650-0524
	5	18.64	12.00	Tin	WM2630TR-ND†	283.60/200			43650-0524
	6	21.64	15.00	Tin	WM2631CT-ND‡	3.66	3.23	2.16	43650-0624
	6	21.64	15.00	Tin	WM2631TR-ND†	301.00/200			43650-0624
	7	24.64	18.00	Tin	WM2632CT-ND‡	3.93	3.47	2.31	43650-0724
	7	24.64	18.00	Tin	WM2632TR-ND†	323.40/200			43650-0724
	8	27.64	21.00	Tin	WM2633CT-ND‡	4.19	3.70	2.47	43650-0824
	8	27.64	21.00	Tin	WM2633TR-ND†	345.20/200			43650-0824
	9	30.63	24.00	Tin	WM2634CT-ND‡	4.40	3.89	2.60	43650-0924
	9	30.63	24.00	Tin	WM2634TR-ND†	362.80/200			43650-0924
	10	33.66	27.00	Tin	WM2635CT-ND‡	4.62	4.08	2.72	43650-1024
	10	33.66	27.00	Tin	WM2635TR-ND†	380.20/200			43650-1024
	11	36.65	30.00	Tin	WM2636CT-ND‡	4.83	4.26	2.84	43650-1124
	11	36.65	30.00	Tin	WM2636TR-ND†	397.60/200			43650-1124
	12	39.65	33.00	Tin	WM2637CT-ND‡	5.04	4.45	2.97	43650-1224
	12	39.65	33.00	Tin	WM2637TR-ND†	415.00/200			43650-1224
	2	9.65	3.00	Gold, 15µ"	WM2638CT-ND‡	3.54	3.13	2.09	43650-0225
	2	9.65	3.00	Gold, 15µ"	WM2638TR-ND†	291.80/200			43650-0225
	3	12.65	6.00	Gold, 15µ"	WM2639CT-ND‡	3.75	3.32	2.21	43650-0325
	3	12.65	6.00	Gold, 15µ"	WM2639TR-ND†	309.20/200			43650-0325
	4	15.65	9.00	Gold, 15µ"	WM2640CT-ND‡	2.52	2.14	1.65	43650-0425
	4	15.65	9.00	Gold, 15µ"	WM2640TR-ND†	1789.20/1,400			43650-0425
	5	18.64	12.00	Gold, 15µ"	WM2641CT-ND‡	4.42	3.90	2.60	43650-0525
	5	18.64	12.00	Gold, 15µ"	WM2641TR-ND†	363.80/200			43650-0525
	6	21.64	15.00	Gold, 15µ"	WM2642CT-ND‡	4.17	3.68	2.46	43650-0625
	6	21.64	15.00	Gold, 15µ"	WM2642TR-ND†	343.00/200			43650-0625
	7	24.64	18.00	Gold, 15µ"	WM2643CT-ND‡	4.49	3.97	2.65	43650-0725
	7	24.64	18.00	Gold, 15µ"	WM2643TR-ND†	369.80/200			43650-0725
	8	27.64	21.00	Gold, 15µ"	WM2644CT-ND‡	4.76	4.20	2.80	43650-0825
	8	27.64	21.00	Gold, 15µ"	WM2644TR-ND†	391.80/200			43650-0825
	9	30.63	24.00	Gold, 15µ"	WM2645CT-ND‡	5.01	4.42	2.95	43650-0925
	9	30.63	24.00	Gold, 15µ"	WM2645TR-ND†	412.40/200			43650-0925
	10	33.66	27.00	Gold, 15µ"	WM2646CT-ND‡	5.35	4.73	3.15	43650-1025
	10	33.66	27.00	Gold, 15µ"	WM2646TR-ND†	440.60/200			43650-1025
	12	39.65	33.00	Gold, 15µ"	WM2647CT-ND‡	5.87	5.19	3.46	43650-1225
	12	39.65	33.00	Gold, 15µ"	WM2647TR-ND†	483.80/200			43650-1225
BMI Receptacle — Panel-to-Panel (Blind Mate) — RoHS Compliant									
18	4	24.60	3.00	—	WM3712-ND	.67	.59	.40	44133-0400
	6	27.70	6.00	—	WM3713-ND	.80	.71	.48	44133-0600
	8	30.70	9.00	—	WM3714-ND	.91	.81	.54	44133-0800
	10	33.80	12.00	—	WM3715-ND	1.07	.95	.63	44133-1000
	12	36.80	15.00	—	WM3716-ND	1.26	1.11	.75	44133-1200
	16	42.90	21.00	—	WM3718-ND	1.71	1.51	1.01	44133-1600
	18	46.00	24.00	—	WM3719-ND	1.91	1.69	1.13	44133-1800
	20	49.00	27.00	—	WM3720-ND	2.13	1.89	1.26	44133-2000
	22	51.80	30.00	—	WM3721-ND	2.34	2.07	1.38	44133-2200
	24	54.90	33.00	—	WM3722-ND	2.56	2.27	1.51	44133-2400
BMI Plug — Panel-to-Panel (Blind Mate)									
19	4	22.84	3.00	—	WM3608-ND◆	.67	.59	.40	44300-0400
	8	28.84	9.00	—	WM3610-ND◆	.91	.81	.54	44300-0800
	10	31.84	12.00	—	WM3611-ND◆	1.07	.95	.63	44300-1000
	12	34.84	15.00	—	WM3612-ND◆	1.26	1.11	.75	44300-1200
	14	37.84	18.00	—	WM3613-ND◆	1.48	1.31	.87	44300-1400
	18	43.84	24.00	—	WM3615-ND◆	1.92	1.70	1.13	44300-1800
	20	46.84	27.00	—	WM3616-ND◆	2.13	1.89	1.26	44300-2000
	22	49.84	30.00	—	WM3617-ND	2.34	2.07	1.38	44300-2200
	24	52.84	33.00	—	WM3618-ND◆	2.56	2.27	1.51	44300-2400

‡ Cut Tape † Tape and Reel ◆ *RoHS Compliant*

Kits

WM8471-ND◆ (76650-0146) **Deluxe Multi BMI Blind Mate Application Kit**;
(Includes EBBI 50D, SPOX BMI™, Micro-Fit 3.0 BMI™,
Mini-Fit BMI™ Product Families).. **$64.61**

WM8480-ND◆ (76650-0159) **Micro-Fit 3.0 Power Connector Kit**;
(3mm Pitch Single Row Free Hanging Plug and Receptacle)......................... **$44.45**

◆ *RoHS Compliant*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex®

Micro-Fit 3.0™ Terminals

Dimensions in mm

Female

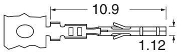

Male

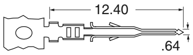

Description	Wire Size (AWG)	Insul. Dia. (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
Female-Tin	20-24	1.85	WM1837-ND	2.78	12.31	47.64	43030-0007
	20-24	1.85	WM1837CT-ND‡	1.67	7.38	28.56	43030-0001
	20-24	1.85	WM1837TR-ND†	384.00/12,000			43030-0001
	26-30	1.27	WM1838-ND	2.78	12.31	47.64	43030-0010
Female-15μ” Gold	20-24	1.85	WM1125CT-ND‡	2.11	10.57	41.36	43030-0002
	20-24	1.85	WM1125TR-ND†	564.00/12,000			43030-0002
	20-24	1.85	WM2773-ND	2.79	13.97	54.61	43030-0008
	26-30	1.27	WM2775-ND	1.68	11.23	44.90	43030-0011
Female-30μ” Gold	20-24	1.85	WM1839-ND	3.23	16.17	63.21	43030-0009
	20-24	1.85	WM2776CT-ND‡	2.60	13.00	50.84	43030-0003
	20-24	1.85	WM2776TR-ND†	684.68/12,000			43030-0003
	26-30	1.27	WM1840-ND	2.26	14.10	56.40	43030-0012
	26-30	1.27	WM2779CT-ND‡	2.26	11.30	44.20	43030-0006
	26-30	1.27	WM2779TR-ND†	604.26/12,000			43030-0006
Male-Tin	20-24	1.85	WM1841-ND	2.78	12.31	47.64	43031-0007
	20-24	1.85	WM1841CT-ND‡	—	8.12	31.42	43031-0001
	20-24	1.85	WM1841TR-ND†	385.56/12,000			43031-0001
	26-30	1.27	WM1842-ND	1.52	9.53	38.10	43031-0010
	26-30	1.27	WM2780CT-ND‡	1.83	8.12	31.42	43031-0004
	26-30	1.27	WM2780TR-ND†	384.00/12,000			43031-0004
Male-15μ” Gold	20-24	1.85	WM1127CT-ND‡	2.22	9.82	38.02	43031-0002
	20-24	1.85	WM1127TR-ND†	468.00/12,000			43031-0002
	20-24	1.85	WM2774-ND	1.79	11.90	47.60	43031-0008
	26-30	1.27	WM2782-ND	1.90	11.90	47.60	43031-0011
Male-30μ” Gold	20-24	1.85	WM1843-ND	3.67	18.34	71.70	43031-0009
	20-24	1.85	WM2777CT-ND‡	1.69	11.24	44.94	43031-0003
	20-24	1.85	WM2777TR-ND†	864.00/12,000			43031-0003
	26-30	1.27	WM1844-ND	2.56	16.00	64.00	43031-0012
	26-30	1.27	WM2781CT-ND‡	1.69	11.24	44.94	43031-0006
	26-30	1.27	WM2781TR-ND†	1080.00/12,000			43031-0006
Universal Crimp Tool 14 ~ 24AWG			WM9999-ND	33.75/1			63811-1000
Crimp Tool 20 ~ 30AWG			WM9022-ND	269.33/1			63819-0000
Locator Assembly for 63819-0000			WM1191-ND ***NEW!***	37.80/1			63819-0075
Hand Crimp Tool 20 ~ 36AWG			WM17552-ND ***NEW!***	100.80/1			64016-0201
Extraction Tool			WM9937-ND	15.30/1			11-03-0043
Manual Wire Stripper 8 ~ 34AWG			WM9969-ND	63.00/1			63817-0000

‡ Cut Tape † Tape and Reel

Mezzanine Connectors
Plateau HS Mezz™

Features:

- Unique Gold-plated-plastic integrated shielding system designed for high-speed differential signaling greater than 10Gbps
- Contacts on 1.20mm (.047”) pitch arranged in isolated differential pairs on 3.50mm (.138”) pitch with SMT leads for controlled impedance • Reflow Capable (SMT only)

Electrical:

- Voltage: 30V maximum • Current: 1.5A maximum • Withstanding Voltage: 500V/1 minute • Contact Resistance: 25mΩ maximum • Insulation Resistance: 1,000 MΩ minimum

Physical:

- Housing: LCP Liquid Crystal Polymer, UL94V-0 • Color: Natural • Contact: Brass (CuZn) • Plating Contact: Gold (Au)
- Temperature Range: -20°C ~ 85°C

Dimensions in mm

Fig. 1 - Receptacle

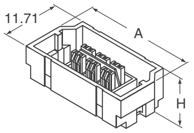

Fig. 2 - Plug

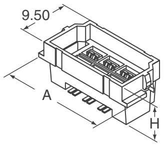

Fig.	No. of Circuits	No. of Differential Pairs	Dimensions (mm) A	Dimensions (mm) H	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	12	6	22.23	7.25	WM17202CT-ND‡	19.46	17.18	11.45	75005-0304
	12	6	22.23	7.25	WM17202TR-ND†	2090.28/275			75005-0304
	12	6	22.30	9.25	WM17203CT-ND‡	10.26	7.93	6.64	75005-0306
	12	6	22.30	9.25	WM17203TR-ND†	1384.78/216			75005-0306
	24	12	32.83	9.25	WM17205CT-ND‡	24.34	21.48	14.32	75005-0006
	24	12	32.83	9.25	WM17205TR-ND†	2044.01/215			75005-0006
	48	24	53.82	7.25	WM17206CT-ND‡	19.20	15.10	12.66	75005-0104
	48	24	53.82	7.25	WM17206TR-ND†	3300.00/275			75005-0104
	72	36	74.88	7.25	WM17207CT-ND‡	21.42	16.84	14.54	75005-0204
	72	36	74.88	7.25	WM17207TR-ND†	3787.03/275			75005-0204
2	48	24	51.52	8.25	WM17214-ND	38.04	33.57	22.38	75003-0105
	48	24	51.52	13.25	WM17215-ND	49.38	43.57	29.05	75003-0110
	72	36	72.58	8.25	WM17216-ND	54.12	47.76	31.84	75003-0205

‡ Cut Tape † Tape and Reel

Kits

WM8458-ND (76650-0130) **Plateau HS Mezz Connector Kit**;
(High Speed Mezzanine Gold Plug and Receptacle)................................... **$61.67**

WM8546-ND (76650-0192) **Deluxe Multi Board Stacking Application Kit**;
(Includes KK® ·100, HDM®, EBBI™ 50D, SEARAY™, Plateau HS Mezz,
IEEE1386, SlimStack™ Product Families).. **$146.20**

Mezzanine IEEE 1386 Connectors

Specifications:

Electrical:

- Voltage: 100V • Current: 1.0A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 1,000 MΩ minimum

Mechanical:

- Contact Retention to Housing: 0.4kgf minimum • Mating Force: 50g maximum per contact • Unmating Force: 25g minimum per contact

Physical:

- Housing: Glass-filled Thermoplastic, UL 94V-0 • Contact: Phosphor bronze • Plating: 0.76μm (30μ”) Gold minimum • Temperature: -55°C ~ 85°C

Fig. 1

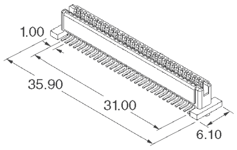

Receptacle, Dual Row, SMT, Vertical Stacking

Fig. 2

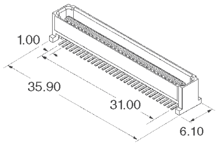

Plug, Dual Row, SMT, Vertical Stacking

Mated Stack Height - mm						
	Plugs					
Receptacles	71436-0464	71436-0164	71436-1164	71436-1464	71436-2464	71436-2164
71439-0464	8.0	8.0	9.0	9.0	10.0	10.0
71439-0164	8.0	8.0	9.0	9.0	10.0	10.0
71439-1164	—	—	11.0	11.0	12.0	12.0
71439-2464	—	—	—	—	13.0	13.0
71439-2164	—	—	—	—	13.0	13.0
71439-3464	—	—	14.0	14.0	15.0	15.0
71439-3164	—	—	14.0	14.0	15.0	15.0

Fig.	No. of Circuits	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
		Receptacles				
1	64	WM17201-ND	7.88	6.96	4.64	71439-0164
	64	WM17221-ND	8.24	7.27	4.85	71439-1164
	64	WM17222-ND	7.88	6.96	4.64	71439-2164
	64	WM17223-ND	8.60	7.59	5.06	71439-3164
	64	WM17224CT-ND‡	7.75	6.30	4.85	71439-0464
	64	WM17224TR-ND†	2131.80/550			71439-0464
	64	WM17225CT-ND‡	8.09	6.58	5.06	71439-3464
	64	WM17225TR-ND†	1253.95/310			71439-3464
	64	WM17228CT-ND‡	7.75	6.30	4.85	71439-1864
	64	WM17228TR-ND†	1627.92/420			71439-1864
	64	WM17229CT-ND‡	7.42	6.03	4.64	71439-2464
	64	WM17229TR-ND†	1409.04/380			71439-2464
		Plugs				
2	64	WM17200-ND	8.60	7.59	5.06	71436-2164
	64	WM17200CT-ND‡	—	—	8.09	71436-2464
	64	WM17200TR-ND†	1344.82/380			71436-2464
	64	WM17219-ND	7.88	6.96	4.64	71436-0164
	64	WM17220-ND	8.24	7.27	4.85	71436-1164
	64	WM17226CT-ND‡	7.42	6.03	4.64	71436-0464
	64	WM17226TR-ND†	1779.84/480			71436-0464
	64	WM17227CT-ND‡	7.75	6.30	4.85	71436-1464
	64	WM17227TR-ND†	1627.92/420			71436-1464

‡ Cut Tape † Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MicroTCA Edge Card Connector

Specifications:

Electrical: • Voltage: 250VAC Maximum • Current: 1.520A Maximum • CSA: LR19980 • UL: E29179

Physical: • Housing: Glass-filled Thermoplastic, UL 94V-0, Black • Terminals: Brass • Durability (mating cycles): 200 cycles minimum • Entry Angle: Vertical • Keying to Mating Part: None • Pitch: .75mm (.030 Inch) • Operating Temperature Range: -40°C ~ 105°C • Termination Interface Style: Through Hole

Dimensions in mm

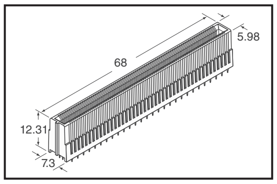

No. of Circuits	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
170	WM10252-ND	28.62	22.90	19.08	15.27	75594-0000

.40mm and .50mm Pitch SlimStack™ Connectors

Features: • 0.9mm ~ 4.00mm stacking heights • Metal friction lock provides secure mating • High temperature housing • Durable blade on beam contact interface • Anti-flux design **Specifications:** • Housing: Glass-filled LCP • Flammability: UL94V-0 • Contact Plating: Gold

.40mm Pitch Connectors

Dimensions in mm

Fig. 1

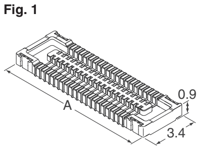

Fig. 2

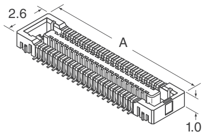

Fig. 3

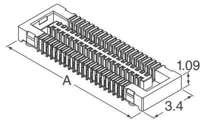

Fig. 4

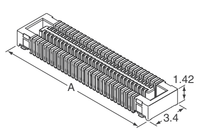

Fig. 5

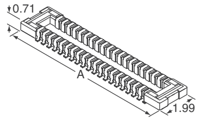

Fig. 6

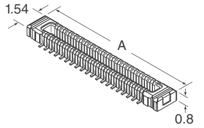

Fig. 7

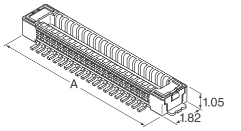

Fig. 8

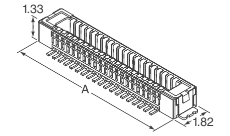

Fig.	No. of Circuits	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
Receptacles								
0.90mm Stacking Height								
1	20	7.1	WM24041-ND	3.80	3.05	2.54	2.03	501591-2011-C
	30	9.1	WM24042-ND	4.75	3.81	3.17	2.54	501591-3011-C
	40	11.1	WM24043-ND	5.70	4.57	3.81	3.05	501591-4011-C
	70	17.1	WM24044-ND	8.87	7.10	5.92	4.74	501591-7011-C
1.0mm Stacking Height								
2	20	7.1	WM24070-ND	1.90	1.53	1.27	1.02	502426-2010-C
	26	8.3	WM24071-ND	2.07	1.66	1.39	1.11	502426-2610-C
	32	9.5	WM24072-ND	2.54	2.03	1.69	1.36	502426-3210-C
	40	11.1	WM24073-ND	2.82	2.26	1.89	1.51	502426-4010-C
	50	13.1	WM24074-ND	3.46	2.77	2.31	1.85	502426-5010-C
	60	15.1	WM24075-ND	3.74	3.00	2.50	2.00	502426-6010-C
	64	15.9	WM24076-ND	4.15	3.32	2.77	2.22	502426-6410-C
	80	19.1	WM24077-ND	5.07	4.06	3.38	2.71	502426-8010-C
1.30mm Stacking Height								
3	30	9.1	WM24053-ND	3.80	3.05	2.54	2.03	501527-0330-C
	40	11.1	WM24054-ND	5.01	4.01	3.34	2.67	501527-0430-C
	50	13.1	WM24055-ND	5.70	4.57	3.81	3.05	501527-0530-C
	90	21.1	WM24056-ND	8.68	6.95	5.79	4.64	501527-0930-C
1.70mm Stacking Height								
4	40	11.1	WM24049-ND	2.47	1.98	1.65	1.32	501635-0410-C
	60	15.1	WM24050-ND	2.94	2.35	1.96	1.57	501635-0610-C
Headers								
0.90mm Stacking Height								
5	20	6.05	WM24045-ND	3.61	2.89	2.41	1.93	501594-2011-C
	30	8.05	WM24046-ND	4.56	3.65	3.05	2.44	501594-3011-C
	40	10.05	WM24047-ND	5.45	4.36	3.64	2.91	501594-4011-C
	70	16.05	WM24048-ND	8.24	6.60	5.50	4.40	501594-7011-C
1.0mm Stacking Height								
6	20	6.26	WM24078-ND	1.42	1.14	.95	.76	502430-2010-C
	26	7.46	WM24079-ND	1.56	1.25	1.05	.84	502430-2610-C
	32	8.66	WM24080-ND	1.73	1.39	1.16	.93	502430-3210-C
	40	10.26	WM24081-ND	2.02	1.62	1.35	1.08	502430-4010-C
	50	12.26	WM24082-ND	2.54	2.03	1.69	1.36	502430-5010-C
	60	14.26	WM24083-ND	3.11	2.49	2.08	1.66	502430-6010-C
	64	15.06	WM24084-ND	3.51	2.82	2.35	1.88	502430-6410-C
	80	18.26	WM24085-ND	4.03	3.23	2.69	2.16	502430-8010-C
1.30mm Stacking Height								
7	30	8.06	WM24057-ND	3.17	2.54	2.12	1.69	501531-0310-C
	40	10.06	WM24058-ND	4.31	3.45	2.88	2.30	501531-0410-C
	50	12.06	WM24059-ND	4.82	3.86	3.22	2.57	501531-0510-C
	90	20.06	WM24060-ND	7.60	6.09	5.07	4.06	501531-0910-C
1.70mm Stacking Height								
8	40	10.06	WM24051-ND	2.59	2.08	1.73	1.39	501639-0410-C
	60	14.06	WM24052-ND	3.63	2.91	2.42	1.94	501639-0610-C

.50mm Pitch Connectors

Fig. 1

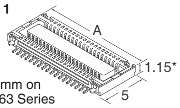

*1.5mm on 54363 Series

Fig. 2

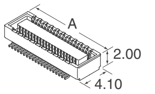

Fig. 3

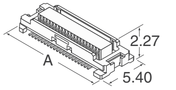

Fig. 4

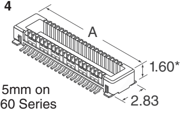

*1.15mm on 55560 Series

Fig. 5

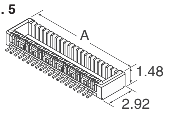

Fig. 6

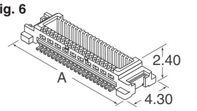

Fig.	No. of Circuits	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
Receptacles								
1.50mm Stacking Height (without Solder Tabs)								
1	16	6.6	WM23965-ND	2.33	1.86	1.55	1.24	54722-0168-C
	20	7.6	WM23966-ND	2.91	2.33	1.94	1.56	54722-0207-C
	22	8.1	WM23967-ND	2.88	2.31	1.92	1.54	54722-0228-C
	24	8.6	WM23968-ND	4.81	3.85	3.21	2.57	54722-0248-C
	34	11.1	WM23970-ND	4.94	3.96	3.30	2.64	54722-0348-C
	40	12.6	WM23971-ND	7.57	6.06	5.05	4.04	54722-0408-C
	50	15.3	WM24033-ND	6.54	5.24	4.36	3.49	54722-0507-C
	60	17.6	WM23973-ND	7.85	6.28	5.24	4.19	54722-0607-C
2.00mm and 3.00mm Stacking Height (with Solder Tabs)								
1	20	8.9	WM23983-ND	7.98	6.39	5.32	4.26	54363-0278-C
	30	11.4	WM23984-ND	5.70	4.57	3.81	3.05	54363-0378-C
	50	16.4	WM23986-ND	7.32	5.86	4.89	3.91	54363-0578-C
	60	18.9	WM23987-ND	7.15	5.73	4.77	3.82	54363-0678-C
	80	23.9	WM23988-ND	16.82	13.46	11.22	8.98	54363-0878-C
2.50mm Stacking Height								
2	20	7.6	WM23995-ND	3.82	3.06	2.55	2.04	54102-0208-C
	80	23.96	WM24000-ND	6.34	5.07	4.23	3.38	54150-0878-C
3.00mm and 4.00mm Stacking Height								
3	20	8.8	WM24007-ND	2.18	1.75	1.46	1.17	52991-0208-C
	30	11.3	WM24008-ND	2.44	1.96	1.63	1.31	52991-0308-C
	40	13.8	WM24009-ND	4.86	3.90	3.25	2.60	52991-0408-C
	70	21.3	WM24069-ND	9.40	7.52	6.27	5.02	52991-0708-C
	80	23.8	WM24012-ND	11.07	8.86	7.39	5.91	52991-0808-C
Headers								
1.50mm Stacking Height								
4	16	5.45	WM23974-ND	1.45	1.16	.97	.78	55560-0168-C
	20	6.45	WM23975-ND	2.50	2.00	1.67	1.34	55560-0207-C
	22	6.95	WM23976-ND	2.36	1.90	1.58	1.27	55560-0227-C
	24	7.45	WM23977-ND	2.63	2.11	1.76	1.41	55560-0247-C
	34	9.95	WM23979-ND	7.38	5.91	4.93	3.94	55560-0347-C
	40	11.45	WM23980-ND	5.81	4.65	3.88	3.10	55560-0407-C
	60	16.45	WM23982-ND	7.41	5.93	4.95	3.96	55560-0607-C
2.00mm Stacking Height								
4	20	7.75	WM23989-ND	11.39	9.11	7.60	6.08	55201-0278-C
	30	10.25	WM23991-ND	2.43	1.95	1.62	1.30	55650-0388-C
	40	12.75	WM23992-ND	3.85	3.08	2.57	2.06	55650-0488-C
	50	15.25	WM23993-ND	7.32	5.86	4.88	3.91	55650-0588-C
	60	17.75	WM23994-ND	7.88	6.31	5.26	4.21	55650-0688-C
	80	22.75	WM23990-ND	16.06	12.85	10.71	8.57	55201-0878-C
2.50mm Stacking Height								
5	20	6.45	WM24001-ND	3.36	2.70	2.25	1.80	53885-0208-C
	30	8.95	WM24002-ND	4.02	3.22	2.68	2.15	53885-0308-C
	40	11.45	WM24003-ND	4.96	3.97	3.31	2.65	53885-0408-C
	50	13.95	WM24004-ND	5.94	4.75	3.96	3.17	53885-0508-C
	60	16.45	WM24005-ND	6.79	5.43	4.53	3.62	53885-0608-C
	80	22.75	WM24006-ND	8.10	6.49	5.41	4.33	53949-0878-C
3.00mm Stacking Height								
6	20	8.8	WM24013-ND	3.28	2.63	2.19	1.75	53748-0208-C
	30	11.3	WM24014-ND	3.88	3.11	2.59	2.07	53748-0308-C
	40	13.8	WM24015-ND	4.13	3.30	2.76	2.21	53748-0408-C
	70	21.3	WM24068-ND	9.47	7.58	6.32	5.06	53748-0708-C
	80	23.8	WM24018-ND	10.01	8.01	6.68	5.34	53748-0808-C

AMC Connector - 0.75mm

Advanced Mezzanine Card Connector (AMC)

Features: • B+ style • Reflow capable • Mates with AMC.0 Modules • Press-fit technology for easy, reliable board termination • Meets PICMG AMC.0 Rev. 1 specification **Electrical:** • Contact Resistance: 60mΩ max. • Insulation Resistance: 10MΩ minimum **Physical:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • Color: Black • Flammability: UL94V-0 • Contact: Copper (Cu) Alloy • Plating Contact: 0.76µm (30µ") Gold (Au) • Plating Tail: Tin (Sn) • Temperature Range: -40°C ~ 105°C

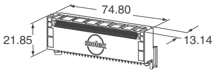

Dimensions in mm

No. of Circuits	Current Max. (A)	Voltage Max. (V)	Withstanding Voltage	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
170	1.0	250	300VAC	WM17218-ND	58.51	48.76	43.08	75800-0001

Mini-Fit Jr.™ Connectors
Positive Locking Hi-Density Power Connector

Plugs, Receptacles and Headers:
Specifications:
- **Contact Resistance**: 10mΩ maximum • **Insulation Resistance**: 1,000MΩ minimum • **Dielectric Strength**: 1,500VAC
- **Safety Approvals**: • UL recognized • CSA certified • TUV licensed

Reflow Temperature Capable (RTC) Headers:
Specifications:
- **Current**: 12.00A maximum • **Voltage**: 600VAC(RMS)/DC maximum • **Operating Temperature Range**: -40°C ~ 105°C
- **Process Temperature**: 260°C maximum

Fig. 1 –Single Row Receptacle (Female Contacts Sold Separately)

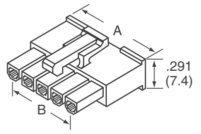

Fig. 2 – Single Row Plug - Panel Mount or Free Hanging (Male Contacts Sold Separately)

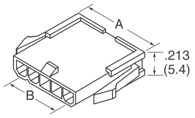

Fig. 3 – Vertical Single Row with Pegs

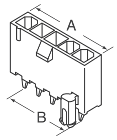

Fig. 4 – Right Angle Single Row with Pegs

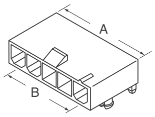

Fig. 5 – Dual Row Receptacle (Female Contacts Sold Separately)

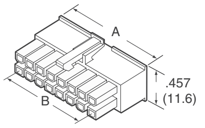

Fig. 6 – Plug Free Hanging mates with Fig. 5

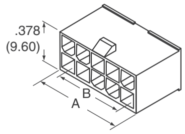

Fig. 7 – Dual Row Plug - Panel Mount (Male Contacts Sold Separately)

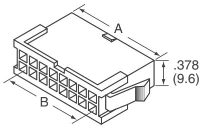

Fig. 8 – Vertical Dual Row Header

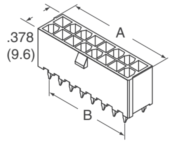

Fig. 9 – Vertical Dual Row Header with Pegs

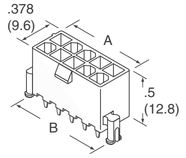

Fig. 10 – RTC Vertical Dual Row Header with PCB Pegs

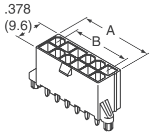

Fig. 11 – Right Angle Dual Row with Pegs

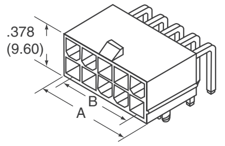

Fig. 12 – Right Angle Dual Row Header with Flange

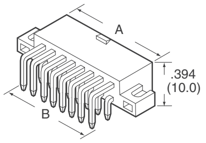

Fig. 13 – Strain Relief (use with Fig. 1)

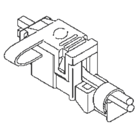

Fig.	Cir-cuits	UL94	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
					Single Row Receptacle				
1	3	V-2	.543 (13.80)	.331 (8.40)	WM18434-ND*§	.44	.40	.27	39-01-4030
	4	V-2	.709 (18.01)	.496 (12.60)	WM18435-ND§	.54	.48	.32	39-01-4040
	5	V-2	.874 (22.20)	.661 (16.80)	WM18436-ND§	.59	.52	.35	39-01-4050
	3	V-0	.543 (13.80)	.331 (8.40)	WM23608-ND*§	.73	.65	.43	39-01-4031
	4	V-0	.709 (18.01)	.496 (12.60)	WM23609-ND§	.80	.57	.38	39-01-4041
	5	V-0	.874 (22.20)	.661 (16.80)	WM23610-ND§	.87	.77	.52	39-01-4051
					Single Row Plug				
2	3	V-2	.543 (13.80)	.331 (8.40)	WM18437-ND*†	.55	.35	.20	39-01-4032
	3	V-2	.543 (13.80)	.331 (8.40)	WM18439-ND*§	.49	.44	.29	39-01-4036
	4	V-2	.709 (18.01)	.496 (12.60)	WM18440-ND§	.53	.48	.32	39-01-4046
	5	V-2	.874 (22.20)	.661 (16.80)	WM18438-ND†	.56	.50	.34	39-01-4052
	5	V-2	.874 (22.20)	.661 (16.80)	WM18441-ND§	.56	.50	.34	39-01-4056
	3	V-0	.543 (13.80)	.331 (8.40)	WM23611-ND*†	.77	.68	.46	39-01-4033
	4	V-0	.709 (18.01)	.496 (12.60)	WM23612-ND§	.84	.74	.50	39-01-4047
	5	V-0	.874 (22.20)	.661 (16.80)	WM23613-ND†	.89	.79	.53	39-01-4053
					Single Row Vertical Header — Tin				
3	3	V-2	.543 (13.80)	.331 (8.40)	WM18442-ND	.95	.67	.45	39-30-1039
	3	V-2	.543 (13.80)	.331 (8.40)	WM18443-ND	1.11	.99	.66	39-30-2035
	4	V-2	.709 (18.01)	.496 (12.60)	WM18444-ND	1.82	1.61	1.08	39-30-2045
	5	V-2	.874 (22.20)	.661 (16.80)	WM18445-ND	1.98	1.76	1.17	39-30-2056
	3	V-0	.543 (13.80)	.331 (8.40)	WM24035-ND	1.14	1.01	.67	39-30-2030
	4	V-0	.709 (18.00)	.496 (12.60)	WM24036-ND	1.51	1.33	.89	39-30-2040
	5	V-0	.874 (22.20)	.661 (16.80)	WM24037-ND	1.77	1.57	1.05	39-30-2050
					Single Row Vertical Header — Gold				
3	3	V-2	.543 (13.80)	.331 (8.40)	WM23932-ND	2.22	1.97	1.31	39-30-2037
	4	V-2	.709 (18.0)	.496 (12.60)	WM23933-ND	2.81	2.49	1.66	39-30-2047
	5	V-2	.874 (22.20)	.661 (16.80)	WM23934-ND	3.62	3.20	2.13	39-30-2058
					Single Row Right Angle Header — Tin				
4	3	V-2	.543 (13.80)	.331 (8.40)	WM18446-ND	1.06	.82	.63	39-30-3035
	4	V-2	.709 (18.01)	.496 (12.60)	WM18447-ND	1.60	1.42	.95	39-30-3045
	5	V-2	.874 (22.20)	.661 (16.80)	WM18448-ND	1.85	1.64	1.09	39-30-3055
	3	V-0	.543 (13.80)	.331 (8.40)	WM24038-ND	1.44	1.28	.85	39-30-3036
	4	V-0	.709 (18.00)	.496 (12.60)	WM24039-ND	1.72	1.52	1.02	39-30-3046
	5	V-0	.874 (22.20)	.661 (16.80)	WM24040-ND	1.99	1.76	1.17	39-30-3056
					Single Row Right Angle Header — Gold				
4	3	V-2	.54 (13.80)	.331 (8.40)	WM23935-ND	2.28	2.02	1.35	39-30-3037
	4	V-2	.709 (18.0)	.496 (12.60)	WM23936-ND	2.72	2.40	1.60	39-30-3047
	5	V-2	.874 (22.20)	.661 (16.80)	WM23937-ND	3.15	2.78	1.86	39-30-3057

Fig.	Cir-cuits	UL94	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
					Dual Row Receptacle				
5	2	V-2	.213 (5.40)	—	WM3700-ND	.59	.37	.19	39-01-2020
	2	V-2	.291 (7.39)	.134 (3.40)	WM1021-ND	.44	.40	.27	39-01-3022
	4	V-2	.378 (9.60)	.165 (4.20)	WM3701-ND	.56	.35	.21	39-01-2040
	4	V-2	.457 (11.60)	.165 (4.20)	WM1022-ND	.52	.46	.31	39-01-3042
	6	V-2	.543 (13.80)	.331 (8.40)	WM3702-ND	.83	.52	.30	39-01-2060
	8	V-2	.709 (18.00)	.496 (12.60)	WM3703-ND	.59	.53	.35	39-01-2080
	10	V-2	.874 (22.20)	.661 (16.80)	WM3704-ND	.71	.63	.42	39-01-2100
	12	V-2	1.039 (26.40)	.827 (21.00)	WM3705-ND	.90	.64	.43	39-01-2120
	14	V-2	1.205 (30.60)	.992 (25.20)	WM3706-ND	.98	.87	.58	39-01-2140
	16	V-2	1.370 (34.80)	1.158 (29.40)	WM3707-ND	.99	.88	.59	39-01-2160
	18	V-2	1.535 (39.00)	1.323 (33.60)	WM3708-ND	1.16	1.02	.69	39-01-2180
	20	V-2	1.701 (43.20)	1.488 (37.80)	WM3709-ND	1.27	1.05	.75	39-01-2200
	22	V-2	1.866 (47.40)	1.654 (42.00)	WM3710-ND	1.71	1.51	1.01	39-01-2220
	24	V-2	2.031 (51.60)	1.819 (46.20)	WM3711-ND	1.40	1.24	.83	39-01-2240
	2	V-0	.213 (5.40)	—	WM23700-ND	.61	.54	.36	39-01-2025
	4	V-0	.378 (9.60)	.165 (4.20)	WM23701-ND	.66	.59	.39	39-01-2045
	6	V-0	.543 (13.80)	.331 (8.40)	WM23702-ND	.83	.73	.49	39-01-2065
	8	V-0	.709 (18.00)	.496 (12.60)	WM23703-ND	.89	.79	.53	39-01-2085
	10	V-0	.874 (22.20)	.661 (16.80)	WM23704-ND	.99	.88	.59	39-01-2105
	12	V-0	1.039 (26.40)	.827 (21.00)	WM23705-ND	1.18	1.05	.70	39-01-2125
	14	V-0	1.205 (30.60)	.992 (25.20)	WM23706-ND	1.27	1.12	.75	39-01-2145
	16	V-0	1.370 (34.80)	1.158 (29.40)	WM23707-ND	1.47	1.14	.87	39-01-2165
	18	V-0	1.535 (39.00)	1.323 (33.60)	WM23708-ND	1.79	1.58	1.06	39-01-2185
	20	V-0	1.701 (43.20)	1.488 (37.80)	WM23709-ND	1.93	1.71	1.14	39-01-2205
	22	V-0	1.866 (47.40)	1.654 (42.00)	WM23710-ND	2.36	2.08	1.39	39-01-2225
	24	V-0	2.031 (51.60)	1.819 (46.20)	WM23711-ND	2.00	1.77	1.18	39-01-2245
					Dual Row Free Hanging Plug				
6	2	V-2	.291 (7.40)	—	WM1030-ND	.44	.40	.27	39-01-3023
	4	V-2	.457 (11.60)	.165 (4.20)	WM1018-ND	.44	.40	.27	39-01-3043
	6	V-2	.543 (13.80)	.331 (8.40)	WM1031-ND	.53	.48	.32	39-01-3063
	8	V-0	.709 (18.00)	.496 (12.60)	WM1019-ND	.64	.57	.38	39-01-3083
	10	V-0	.874 (22.20)	.661 (16.80)	WM1020-ND	.71	.63	.42	39-01-3103
	12	V-0	1.039 (26.40)	.827 (21.00)	WM1056-ND	.64	.57	.38	39-01-3123
	14	V-0	1.205 (30.60)	.992 (25.20)	WM1057-ND	.91	.80	.54	39-01-3143

‡ Without drain holes † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

(Continued)

Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector *(Cont.)*

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
6	2	V-0	.291 (7.40)	—	WM24034-ND	.69	.61	.41	39-01-3029
	4	V-0	.496 (11.60)	.165 (4.20)	WM24061-ND	.81	.72	.48	39-01-3049
	6	V-0	.543 (13.80)	.331 (8.40)	WM24062-ND	.94	.83	.56	39-01-3069
	8	V-0	.709 (18.00)	.496 (12.60)	WM24063-ND	.97	.86	.58	39-01-3089
	10	V-0	.874 (22.20)	.661 (16.80)	WM24064-ND	1.05	.93	.62	39-01-3109
	12	V-0	1.039 (26.40)	.827 (21.00)	WM24065-ND	1.10	.97	.65	39-01-3129

Dual Row Panel Mount Plug

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
7	2	V-2	.213 (5.40)	—	WM3600-ND	.61	.38	.22	39-01-2021
	4	V-2	.378 (9.60)	.165 (4.20)	WM3601-ND	.51	.46	.31	39-01-2041
	6	V-2	.543 (13.80)	.331 (8.40)	WM3602-ND	.55	.49	.33	39-01-2061
	8	V-2	.709 (18.00)	.496 (12.60)	WM3603-ND	.59	.53	.35	39-01-2081
	10	V-2	.874 (22.20)	.661 (16.80)	WM3604-ND	.71	.63	.42	39-01-2101
	12	V-2	1.039 (26.40)	.827 (21.00)	WM3605-ND	.73	.65	.43	39-01-2121
	14	V-2	1.205 (30.60)	.992 (25.20)	WM3606-ND	1.02	.90	.60	39-01-2141
	16	V-2	1.370 (34.80)	1.158 (29.40)	WM3607-ND	1.32	1.17	.78	39-01-2161
	18	V-2	1.535 (39.00)	1.323 (33.6)	WM1012-ND	1.32	1.17	.78	39-01-2181
	20	V-2	1.701 (43.20)	1.488 (37.8)	WM1028-ND	1.54	1.37	.91	39-01-2201
	22	V-2	1.866 (47.40)	1.654 (42.0)	WM1013-ND	1.70	1.51	1.01	39-01-2221
	24	V-2	2.031 (51.60)	1.819 (46.2)	WM1029-ND	1.85	1.64	1.10	39-01-2241
	2	V-0	.213 (5.40)	—	WM23600-ND	.69	.61	.41	39-01-2026
	4	V-0	.378 (9.60)	.165 (4.20)	WM23601-ND	.79	.71	.47	39-01-2046
	6	V-0	.543 (13.80)	.331 (8.40)	WM23602-ND	.94	.83	.56	39-01-2066
	8	V-0	.709 (18.00)	.496 (12.60)	WM23603-ND	.99	.88	.59	39-01-2086
	10	V-0	.874 (22.20)	.661 (16.80)	WM23604-ND	1.05	.93	.62	39-01-2106
	12	V-0	1.039 (26.40)	.827 (21.00)	WM23605-ND	1.10	.97	.65	39-01-2126
	14	V-0	1.205 (30.60)	.992 (25.20)	WM23606-ND	1.30	1.16	.77	39-01-2146
	16	V-0	1.370 (34.80)	1.158 (29.40)	WM23607-ND	1.60	1.41	.94	39-01-2166

Dual Row Vertical Header — Tin

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
8	2	V-2	.210 (5.40)	—	WM3800-ND‡	.88	.62	.42	39-28-1023
	4	V-2	.380 (9.60)	.170 (4.20)	WM3801-ND‡	1.15	.81	.54	39-28-1043
	6	V-2	.540 (13.80)	.330 (8.40)	WM3802-ND‡	1.48	1.31	.88	39-28-1063
	8	V-2	.710 (18.00)	.500 (12.60)	WM3803-ND‡	1.71	1.51	1.01	39-28-1083
	10	V-2	.870 (22.20)	.660 (16.80)	WM3804-ND‡	2.22	1.97	1.31	39-28-1103
	12	V-2	1.040 (26.40)	.825 (20.96)	WM3805-ND‡	1.67	1.39	1.03	39-28-1123
	14	V-2	1.200 (31.60)	.990 (25.20)	WM3806-ND‡	2.89	2.56	1.71	39-28-1143
	16	V-2	1.370 (34.80)	1.160 (29.40)	WM3807-ND‡	3.22	2.84	1.90	39-28-1163
	18	V-2	1.540 (39.00)	1.320 (33.60)	WM3808-ND‡	3.62	3.20	2.13	39-28-1183
	20	V-2	1.700 (43.20)	1.490 (37.80)	WM3809-ND‡	4.02	3.55	2.37	39-28-1203
	22	V-2	1.870 (47.40)	1.650 (42.00)	WM3810-ND‡	4.42	3.90	2.60	39-28-1223
	24	V-2	2.030 (51.60)	1.820 (46.20)	WM3811-ND‡	4.83	4.26	2.84	39-28-1243
	2	V-2	.210 (5.40)	—	WM3843-ND	.76	.68	.45	39-29-3026
	4	V-2	.380 (9.60)	0.165 (4.20)	WM3844-ND	.99	.88	.59	39-29-3046
	6	V-2	.540 (13.80)	0.331 (8.40)	WM3845-ND	1.26	1.12	.75	39-29-3066
	8	V-2	.710 (18.00)	0.496 (12.60)	WM3846-ND	1.52	1.35	.90	39-29-3086
	10	V-2	.870 (22.20)	0.661 (16.80)	WM3847-ND	1.99	1.76	1.17	39-29-3106
	12	V-2	1.040 (26.40)	0.827 (21.00)	WM3848-ND	2.41	2.13	1.42	39-29-3126
	14	V-2	1.200 (30.60)	.992 (25.20)	WM3849-ND	2.58	2.28	1.52	39-29-3146
	16	V-2	1.370 (34.80)	1.160 (29.40)	WM3850-ND	2.87	2.54	1.70	39-29-3166
	20	V-2	1.700 (43.20)	1.488 (37.80)	WM3851-ND	3.59	3.17	2.12	39-29-3206
	22	V-2	1.870 (47.40)	1.650 (42.00)	WM3852-ND	3.95	3.49	2.33	39-29-3226
	2	V-0	.210 (5.40)	—	WM23800-ND‡	.79	.70	.47	39-28-8020
	4	V-0	.380 (9.60)	.170 (4.20)	WM23801-ND‡	1.22	1.08	.72	39-28-8040
	6	V-0	.540 (13.80)	.330 (8.40)	WM23802-ND‡	1.67	1.48	.99	39-28-8060
	8	V-0	.710 (18.00)	.500 (12.60)	WM23803-ND‡	2.03	1.79	1.20	39-28-8080
	10	V-0	.870 (22.20)	.660 (16.80)	WM23804-ND‡	2.39	2.11	1.41	39-28-8100
	12	V-0	1.040 (26.40)	.825 (20.96)	WM23805-ND‡	2.65	2.34	1.56	39-28-8120
	14	V-0	1.200 (31.60)	.990 (25.20)	WM23806-ND‡	3.05	2.69	1.80	39-28-8140
	16	V-0	1.370 (34.80)	1.160 (29.40)	WM23807-ND‡	3.45	3.05	2.03	39-28-8160
	18	V-0	1.540 (39.00)	1.320 (33.60)	WM23808-ND‡	3.88	3.43	2.29	39-28-8180
	20	V-0	1.700 (43.20)	1.490 (37.80)	WM23809-ND‡	4.31	3.81	2.54	39-28-8200
	22	V-0	1.870 (47.40)	1.650 (42.00)	WM23810-ND‡	4.74	4.19	2.79	39-28-8220
	24	V-0	2.030 (51.60)	1.820 (46.20)	WM23811-ND‡	5.18	4.57	3.05	39-28-8240

Dual Row Vertical Header — Gold

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
8	2	V-2	.210 (5.40)	—	WM3820-ND‡	1.55	1.38	.92	39-29-0023
	4	V-2	.380 (9.60)	.170 (4.20)	WM3821-ND‡	2.85	2.52	1.68	39-29-0043
	6	V-2	.540 (13.80)	.330 (8.40)	WM3822-ND‡	4.10	3.62	2.42	39-29-0063
	8	V-2	.710 (18.00)	.500 (12.60)	WM3823-ND‡	5.33	4.71	3.14	39-29-0083
	10	V-2	.870 (22.20)	.660 (16.80)	WM3824-ND‡	6.49	5.73	3.82	39-29-0103
	12	V-2	1.040 (26.40)	.830 (21.00)	WM3825-ND‡	7.66	6.76	4.51	39-29-0123
	14	V-2	1.200 (30.60)	.990 (25.20)	WM3826-ND‡	9.02	7.96	5.31	39-29-0143
8	16	V-2	1.370 (34.80)	1.160 (29.40)	WM3827-ND‡	10.26	9.06	6.04	39-29-0163
	18	V-2	1.540 (39.00)	1.320 (33.60)	WM3828-ND‡	11.54	10.19	6.79	39-29-0183
	20	V-2	1.700 (43.20)	1.490 (37.80)	WM3829-ND‡	12.82	11.32	7.55	39-29-0203
	22	V-2	1.870 (47.40)	1.650 (42.00)	WM3830-ND‡	14.11	12.45	8.30	39-29-0223
	24	V-2	2.030 (51.60)	1.820 (46.20)	WM3831-ND‡	15.39	13.58	9.06	39-29-0243
	2	V-0	.210 (5.40)	—	WM23820-ND‡	1.63	1.44	.96	39-29-6028
	4	V-0	.380 (9.60)	.170 (4.20)	WM23821-ND‡	2.73	2.42	1.61	39-29-6048
	6	V-0	.540 (13.80)	.330 (8.40)	WM23822-ND‡	3.90	3.45	2.30	39-29-6068
	8	V-0	.710 (18.00)	.500 (12.60)	WM23823-ND‡	5.05	4.46	2.97	39-29-6088
	10	V-0	.870 (22.20)	.660 (16.80)	WM23824-ND‡	6.20	5.47	3.65	39-29-6108
	12	V-0	1.040 (26.40)	.830 (21.00)	WM23825-ND‡	7.28	6.43	4.29	39-29-6128
	14	V-0	1.200 (30.60)	.990 (25.20)	WM23826-ND‡	8.50	7.51	5.01	39-29-6148
	16	V-0	1.370 (34.80)	1.160 (29.40)	WM23827-ND‡	9.52	8.40	5.60	39-29-6168
	18	V-0	1.540 (39.00)	1.320 (33.60)	WM23828-ND‡	8.57	7.57	5.05	39-29-6188
	20	V-0	1.700 (43.20)	1.490 (37.80)	WM23829-ND‡	11.89	10.50	7.00	39-29-6208
	22	V-0	1.870 (47.40)	1.650 (42.00)	WM23830-ND‡	13.09	11.55	7.70	39-29-6228
	24	V-0	2.030 (51.60)	1.820 (46.20)	WM23831-ND‡	12.13	10.71	7.14	39-29-6248

Dual Row Vertical Header with Pegs — Tin

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
9	2	V-2	.210 (5.40)	.370 (9.40)	WM7324-ND	.76	.68	.45	39-29-9022
	4	V-2	.380 (9.60)	.535 (13.60)	WM7325-ND	.88	.78	.52	39-29-9042
	6	V-2	.540 (13.80)	.701 (17.80)	WM7326-ND	1.32	1.17	.78	39-29-9062
	8	V-2	.710 (18.00)	.866 (22.00)	WM7327-ND	1.52	1.35	.90	39-29-9082
	10	V-2	.870 (22.20)	1.031 (26.20)	WM7328-ND	1.82	1.61	1.08	39-29-9102
	12	V-2	1.040 (26.40)	1.197 (30.40)	WM7329-ND	2.41	2.13	1.42	39-29-9122
	14	V-2	1.200 (30.60)	1.362 (34.60)	WM7330-ND	2.58	2.28	1.52	39-29-9142
	16	V-2	1.370 (34.80)	1.528 (38.80)	WM7331-ND	2.99	2.64	1.76	39-29-9162
	18	V-2	1.540 (39.00)	1.693 (43.00)	WM7332-ND	3.36	2.97	1.98	39-29-9182
	20	V-2	1.700 (43.20)	1.858 (47.20)	WM7346-ND	2.07	1.83	1.22	39-29-9202
	22	V-2	1.870 (47.40)	2.024 (51.40)	WM7333-ND	4.13	3.65	2.44	39-29-9222
	24	V-2	2.030 (51.60)	2.189 (55.60)	WM7334-ND	3.32	2.93	1.96	39-29-9242
	2	V-2	.210 (5.40)	.370 (9.40)	WM17745-ND	.92	.82	.55	39-30-6027
	4	V-2	.380 (9.60)	.535 (13.60)	WM17746-ND	1.26	1.12	.75	39-30-6047
	6	V-2	.540 (13.80)	.701 (17.80)	WM17747-ND	1.38	1.22	.82	39-30-6067
	8	V-2	.710 (18.00)	.866 (22.00)	WM17748-ND	1.52	1.35	.90	39-30-6087
	10	V-2	.870 (22.20)	1.031 (26.20)	WM17749-ND	1.82	1.61	1.08	39-30-6107
	12	V-2	1.040 (26.40)	1.197 (30.40)	WM17750-ND	2.41	2.13	1.42	39-30-6127
	14	V-2	1.200 (30.60)	1.362 (34.60)	WM17751-ND	2.58	2.28	1.52	39-30-6147
	16	V-2	1.370 (34.80)	1.528 (38.80)	WM17752-ND	2.99	2.64	1.76	39-30-6167
	18	V-2	1.540 (39.00)	1.693 (43.00)	WM17753-ND	3.36	2.97	1.98	39-30-6187
	20	V-2	1.700 (43.20)	1.858 (47.20)	WM17754-ND	4.15	3.67	2.45	39-30-6207
	22	V-2	1.870 (47.40)	2.024 (51.40)	WM17755-ND	4.13	3.65	2.44	39-30-6227
	24	V-2	2.030 (51.60)	2.189 (55.60)	WM17756-ND	4.31	3.81	2.54	39-30-6247
	2	V-0	.210 (5.40)	.370 (9.40)	WM3864-ND	.83	.73	.49	39-29-9026
	4	V-0	.380 (9.60)	.535 (13.60)	WM3865-ND	1.28	1.13	.76	39-29-9046
	6	V-0	.540 (13.80)	.701 (17.80)	WM3866-ND	1.67	1.48	.99	39-29-9066
	8	V-0	.710 (18.00)	.866 (22.00)	WM3867-ND	2.03	1.79	1.20	39-29-9086
	10	V-0	.870 (22.20)	1.031 (26.20)	WM3868-ND	2.39	2.11	1.41	39-29-9106
	12	V-0	1.040 (26.40)	1.197 (30.40)	WM3869-ND	2.46	2.17	1.45	39-29-9126
	14	V-0	1.200 (30.60)	1.362 (34.60)	WM3870-ND	3.05	2.69	1.80	39-29-9146
	16	V-0	1.370 (34.80)	1.528 (38.80)	WM3871-ND	3.59	3.17	2.12	39-29-9166
	18	V-0	1.540 (39.00)	1.693 (43.00)	WM3872-ND	4.04	3.57	2.38	39-29-9186
	20	V-0	1.700 (43.20)	1.858 (47.20)	WM3873-ND	3.86	3.41	2.27	39-29-9206
	24	V-0	2.030 (51.60)	2.189 (55.60)	WM3874-ND	4.13	3.65	2.44	39-29-9246
	2	V-0	.210 (5.40)	.370 (9.40)	WM3875-ND‡	.83	.73	.49	39-29-9027
	4	V-0	.380 (9.60)	.535 (13.60)	WM3876-ND‡	1.28	1.13	.76	39-29-9047
	6	V-0	.540 (13.80)	.701 (17.80)	WM3877-ND‡	1.67	1.48	.99	39-29-9067
	8	V-0	.710 (18.00)	.866 (22.00)	WM3878-ND‡	2.03	1.79	1.20	39-29-9087
	10	V-0	.870 (22.20)	1.031 (26.20)	WM3879-ND‡	2.39	2.11	1.41	39-29-9107
	12	V-0	1.040 (26.40)	1.197 (30.40)	WM3880-ND‡	2.65	2.34	1.56	39-29-9127
	14	V-0	1.200 (30.60)	1.362 (34.60)	WM3881-ND‡	3.05	2.69	1.80	39-29-9147
	16	V-0	1.370 (34.80)	1.528 (38.80)	WM3882-ND‡	3.45	3.05	2.03	39-29-9167
	18	V-0	1.540 (39.00)	1.693 (43.00)	WM3883-ND‡	3.88	3.43	2.29	39-29-9187
	20	V-0	1.700 (43.20)	1.858 (47.20)	WM3884-ND‡	4.31	3.81	2.54	39-29-9207
	24	V-0	2.030 (51.60)	2.189 (55.60)	WM3885-ND‡	5.18	4.57	3.05	39-29-9247

Dual Row Vertical Header with Pegs — Gold

Fig.	Cir-cuits	UL94	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
9	2	V-2	.210 (5.40)	.370 (9.40)	WM7335-ND	1.46	1.29	.86	39-29-9024
	4	V-2	.380 (9.60)	.535 (13.60)	WM7336-ND	2.55	2.25	1.50	39-29-9044
	6	V-2	.540 (13.80)	.701 (17.80)	WM7337-ND	3.67	3.24	2.16	39-29-9064
	8	V-2	.710 (18.00)	.866 (22.00)	WM7338-ND	4.76	4.21	2.81	39-29-9084
	10	V-2	.870 (22.20)	1.031 (26.20)	WM7339-ND	5.79	5.12	3.41	39-29-9104

‡ Without drain holes † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

(Continued)

Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector *(Cont.)*

Fig.	Cir-cuits	UL94	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
9	12	V-2	1.040 (26.40)	1.197 (30.40)	WM7340-ND	6.84	6.04	4.03	39-29-9124
	14	V-2	1.200 (30.60)	1.362 (34.60)	WM7341-ND	8.06	7.12	4.75	39-29-9144
	16	V-2	1.370 (34.80)	1.528 (38.80)	WM7342-ND	9.53	8.42	5.61	39-29-9164
	18	V-2	1.540 (39.00)	1.693 (43.00)	WM7343-ND	10.72	9.47	6.31	39-29-9184
	20	V-2	1.700 (43.20)	1.858 (47.20)	WM7344-ND	11.91	10.52	7.01	39-29-9204
	22	V-2	1.870 (47.40)	2.024 (51.40)	WM7347-ND	13.14	11.60	7.73	39-29-9224
	24	V-2	2.030 (51.60)	2.189 (55.60)	WM7345-ND	14.30	12.62	8.42	39-29-9244
	2	V-0	.210 (5.40)	.370 (9.40)	WM3832-ND	1.69	1.50	1.00	39-28-9028
	4	V-0	.380 (9.60)	.535 (13.60)	WM3833-ND	3.83	3.38	2.26	39-28-9048
	6	V-0	.540 (13.80)	.701 (17.80)	WM3834-ND	4.06	3.58	2.39	39-28-9068
	8	V-0	.710 (18.00)	.866 (22.00)	WM3835-ND	5.25	4.64	3.09	39-28-9088
	10	V-0	.870 (22.20)	1.031 (26.20)	WM3836-ND	6.45	5.69	3.80	39-28-9108
	12	V-0	1.040 (26.40)	1.197 (30.40)	WM3837-ND	7.57	6.68	4.46	39-28-9128
	14	V-0	1.200 (30.60)	1.362 (34.60)	WM3838-ND	7.58	6.69	4.46	39-28-9148
	16	V-0	1.370 (34.80)	1.528 (38.80)	WM3839-ND	9.90	8.74	5.83	39-28-9168
	18	V-0	1.540 (39.00)	1.693 (43.00)	WM3840-ND	11.14	9.83	6.56	39-28-9188
	20	V-0	1.700 (43.20)	1.858 (47.20)	WM3841-ND	12.37	10.92	7.28	39-28-9208
	24	V-0	2.030 (54.60)	2.189 (55.60)	WM3842-ND	17.79	15.70	10.47	39-28-9248
Dual Row Vertical Header, Reflow Capability — Gold									
10	4	V-2	0.38 (9.6)	0.165 (4.20)	WM21375-ND	2.40	2.12	1.42	46207-0004
	6	V-2	0.54 (13.8)	0.331 (8.40)	WM21376-ND	3.60	3.18	2.12	46207-0006
	8	V-2	0.71 (18.0)	0.496 (12.60)	WM21377-ND	4.32	3.82	2.55	46207-0008
	10	V-2	0.87 (22.2)	0.661 (16.80)	WM21378-ND	4.81	4.24	2.83	46207-0010
	12	V-2	1.04 (26.4)	0.827 (21.00)	WM21379-ND	5.81	5.13	3.43	46207-0012
	24	V-2	2.03 (51.6)	1.819 (46.20)	WM21380-ND	10.93	9.65	6.44	46207-0024
Dual Row Right Angle Header with Pegs — Tin									
11	2	V-2	.213 (5.40)	—	WM1351-ND	.90	.80	.53	39-30-1020
	4	V-2	.378 (9.60)	.165 (4.20)	WM1352-ND	1.16	1.03	.69	39-30-1040
	6	V-2	.543 (13.80)	.331 (8.40)	WM1353-ND	1.24	.87	.59	39-30-1060
	8	V-2	.709 (18.00)	.496 (12.60)	WM1354-ND	1.59	1.24	.95	39-30-1080
	10	V-2	.874 (22.20)	.661 (16.80)	WM1355-ND	2.13	1.88	1.26	39-30-1100
	12	V-2	1.039 (26.40)	.827 (21.00)	WM1356-ND	2.52	2.23	1.49	39-30-1120
	14	V-2	1.205 (30.60)	.992 (25.20)	WM1357-ND	2.97	2.62	1.75	39-30-1140
	16	V-2	1.370 (34.80)	1.158 (29.40)	WM1358-ND	3.45	3.05	2.03	39-30-1160
	18	V-2	1.535 (39.00)	1.323 (33.60)	WM1359-ND	4.00	3.53	2.36	39-30-1180
	20	V-2	1.701 (43.20)	1.488 (37.80)	WM1360-ND	4.60	4.06	2.71	39-30-1200
	22	V-2	1.866 (47.40)	1.654 (42.00)	WM1361-ND	5.20	4.59	3.06	39-30-1220
	24	V-2	2.031 (51.60)	1.819 (46.20)	WM1362-ND	5.82	5.14	3.43	39-30-1240
	2	V-0	.213 (5.40)	—	WM21351-ND	1.04	.92	.62	39-30-0020
	4	V-0	.378 (9.60)	.165 (4.20)	WM21352-ND	1.35	1.20	.80	39-30-0040
	6	V-0	.543 (13.80)	.331 (8.40)	WM21353-ND	1.69	1.49	1.00	39-30-0060
	8	V-0	.709 (18.00)	.496 (12.60)	WM21354-ND	2.06	1.82	1.22	39-30-0080
	10	V-0	.874 (22.20)	.661 (16.80)	WM21355-ND	2.48	2.19	1.46	39-30-0100
	12	V-0	1.039 (26.40)	.827 (21.00)	WM21356-ND	2.93	2.59	1.73	39-30-0120
	14	V-0	1.205 (30.60)	.992 (25.20)	WM21357-ND	3.45	3.05	2.03	39-30-0140
	16	V-0	1.370 (34.80)	1.158 (29.40)	WM21358-ND	4.00	3.53	2.36	39-30-0160
	18	V-0	1.535 (39.00)	1.323 (33.60)	WM21359-ND	4.64	4.10	2.74	39-30-0180
	20	V-0	1.701 (43.20)	1.488 (37.80)	WM21360-ND	5.34	4.71	3.14	39-30-0200
	22	V-0	1.866 (47.40)	1.654 (42.00)	WM21361-ND	6.03	5.33	3.55	39-30-0220
	24	V-0	2.031 (51.60)	1.819 (46.20)	WM21362-ND	6.34	5.60	3.73	39-30-0240
Dual Row Right Angle Header with Pegs — Gold									
11	2	V-2	.213 (5.40)	—	WM1363-ND	1.88	1.67	1.11	39-30-1021
	4	V-2	.378 (9.60)	.165 (4.20)	WM1364-ND	2.45	2.16	1.44	39-30-1041
	6	V-2	.543 (13.80)	.331 (8.40)	WM1365-ND	3.06	2.71	1.81	39-30-1061
	8	V-2	.709 (18.00)	.496 (12.60)	WM1366-ND	3.74	3.30	2.20	39-30-1081
	10	V-2	.874 (22.20)	.661 (16.80)	WM1367-ND	4.48	3.96	2.64	39-30-1101
	12	V-2	1.039 (26.40)	.827 (21.00)	WM1368-ND	5.29	4.67	3.11	39-30-1121
	14	V-2	1.205 (30.60)	.992 (25.20)	WM1369-ND	6.24	5.51	3.68	39-30-1141
	16	V-2	1.370 (34.80)	1.158 (29.40)	WM1370-ND	7.24	6.39	4.26	39-30-1161
	18	V-2	1.535 (39.00)	1.323 (33.60)	WM1371-ND	8.39	7.41	4.94	39-30-1181
	20	V-2	1.701 (43.20)	1.488 (37.80)	WM1372-ND	9.65	8.52	5.68	39-30-1201
	22	V-2	1.866 (47.40)	1.654 (42.00)	WM1373-ND	10.90	9.63	6.42	39-30-1221
	24	V-2	2.031 (51.60)	1.819 (46.20)	WM1374-ND	12.22	10.78	7.19	39-30-1241
	2	V-0	.213 (5.40)	—	WM21363-ND	2.29	2.03	1.35	39-30-1022
	4	V-0	.378 (9.60)	.165 (4.20)	WM21364-ND	2.98	2.63	1.76	39-30-1042
	6	V-0	.543 (13.80)	.331 (8.40)	WM21365-ND	3.72	3.29	2.19	39-30-1062
	8	V-0	.709 (18.00)	.496 (12.60)	WM21366-ND	4.54	4.01	2.68	39-30-1082
	10	V-0	.874 (22.20)	.661 (16.80)	WM21367-ND	5.45	4.81	3.21	39-30-1102
	12	V-0	1.039 (26.40)	.827 (21.00)	WM21368-ND	6.43	5.68	3.79	39-30-1122
	14	V-0	1.205 (30.60)	.992 (25.20)	WM21369-ND	7.59	6.70	4.47	39-30-1142
	16	V-0	1.370 (34.80)	1.158 (29.40)	WM21370-ND	8.80	7.77	5.18	39-30-1162
11	18	V-0	1.535 (39.00)	1.323 (33.60)	WM21371-ND	9.94	8.78	5.85	39-30-1182
	20	V-0	1.701 (43.20)	1.488 (37.80)	WM21372-ND	11.74	10.36	6.91	39-30-1202
	24	V-0	2.031 (51.60)	1.819 (46.20)	WM21374-ND	14.87	13.12	8.75	39-30-1242
Dual Row Right Angle Header with Flange — Tin									
12	2	V-2	.606 (15.40)	—	WM3900-ND	.99	.87	.58	39-29-1028
	4	V-2	.772 (19.60)	.165 (4.20)	WM3901-ND	1.00	.78	.60	39-29-1048
	6	V-2	.937 (23.80)	.331 (23.80)	WM3902-ND	1.60	1.42	.95	39-29-1068
	8	V-2	1.102 (28.00)	.496 (12.60)	WM3903-ND	1.95	1.73	1.15	39-29-1088
	10	V-2	1.268 (32.20)	.661 (16.80)	WM3904-ND	2.34	2.07	1.38	39-29-1108
	12	V-2	1.433 (36.40)	.827 (21.00)	WM3905-ND	2.76	2.44	1.63	39-29-1128
	14	V-2	1.598 (40.60)	.992 (25.20)	WM3906-ND	3.26	2.88	1.92	39-29-1148
	16	V-2	1.764 (44.80)	1.158 (29.40)	WM3907-ND	3.79	3.35	2.23	39-29-1168
	18	V-2	1.929 (49.00)	1.323 (33.60)	WM3908-ND	4.40	3.88	2.59	39-29-1188
	20	V-2	2.094 (53.20)	1.488 (37.80)	WM3909-ND	5.26	4.64	3.10	39-29-1208
	22	V-2	2.260 (57.40)	1.654 (42.00)	WM3910-ND	5.72	5.05	3.37	39-29-1228
	24	V-2	2.425 (61.60)	1.819 (46.20)	WM3911-ND	6.65	5.88	3.92	39-29-1248
Dual Row Right Angle Header with Flange — Gold									
12	2	V-2	.606 (15.40)	—	WM3920-ND	2.08	1.84	1.23	39-29-5023
	4	V-2	.772 (19.60)	.165 (4.20)	WM3921-ND	2.57	2.27	1.51	39-29-5043
	6	V-2	.937 (23.80)	.331 (8.40)	WM3922-ND	3.20	2.83	1.89	39-29-5063
	8	V-2	1.102 (28.00)	.496 (12.60)	WM3923-ND	3.91	3.45	2.30	39-29-5083
	10	V-2	1.268 (32.20)	.661 (16.80)	WM3924-ND	4.69	4.14	2.77	39-29-5103
	12	V-2	1.433 (36.40)	.827 (21.00)	WM3925-ND	5.54	4.89	3.26	39-29-5123
	14	V-2	1.598 (40.60)	.992 (25.20)	WM3926-ND	6.53	5.77	3.85	39-29-5143
	16	V-2	1.764 (44.80)	1.158 (29.40)	WM3927-ND	7.58	6.69	4.46	39-29-5163
	18	V-2	1.929 (49.00)	1.323 (33.60)	WM3928-ND	8.79	7.76	5.18	39-29-5183
	20	V-2	2.094 (53.20)	1.488 (37.80)	WM3929-ND	10.11	8.93	5.95	39-29-5203
	22	V-2	2.260 (57.40)	1.654 (42.00)	WM3930-ND	11.42	10.08	6.72	39-29-5223
	24	V-2	2.425 (61.60)	1.819 (46.20)	WM3931-ND	12.79	11.29	7.53	39-29-5243
Strain Relief (use with Fig. 1)									
13	6	V-2	—	—	WM13702-ND	2.32	—	—	15-04-0296
	8	V-2	—	—	WM13703-ND	2.42	—	—	15-04-0343

‡ Without drain holes † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

Kits

WM1047-ND	(76650-0017)	**Mini-Fit Jr. Power Connector Kit**: Free Hanging Plug and Receptacle, 3-9A, 250V	**$26.88**
WM8360-ND	(76650-0074)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 2 Circuit	**$1.75**
WM8359-ND	(76650-0075)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 4 Circuit	**$2.23**
WM8369-ND	(76650-0076)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 6 Circuit	**$2.71**
WM8377-ND	(76650-0077)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 8 Circuit	**$3.20**
WM8389-ND	(76650-0078)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 10 Circuit	**$3.98**
WM8393-ND	(76650-0079)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 12 Circuit	**$4.45**
WM8398-ND	(76650-0080)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 14 Circuit	**$5.34**
WM8397-ND	(76650-0081)	**Mini-Fit Jr. Power Connector Kit**: Plug and Receptacle, 16 Circuit	**$6.07**
WM8379-ND	(76650-0082)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 2 Circuit	**$2.00**
WM8384-ND	(76650-0083)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 4 Circuit	**$2.55**
WM8395-ND	(76650-0084)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 6 Circuit	**$3.29**
WM8399-ND	(76650-0085)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 8 Circuit	**$3.80**
WM8401-ND	(76650-0086)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 10 Circuit	**$4.74**
WM8402-ND	(76650-0087)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 12 Circuit	**$5.06**
WM8400-ND	(76650-0088)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle, 14 Circuit	**$6.32**
WM8428-ND	(76650-0016)	**Mini-Fit Jr. Power Connector Kit**: Right Angle Header and Receptacle	**$46.14**
WM8432-ND	(76650-0013)	**Mini-Fit Jr. Deluxe Power Connector Kit**: Vertical and Right Angle Header and Receptacle	**$66.34**
WM8484-ND	(76650-0163)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle	**$33.28**
WM8418-ND	(76650-0014)	**Mini-Fit Jr. Power Connector Kit**: Panel Mount Plug and Receptacle	**$26.96**
WM8409-ND	(76650-0015)	**Mini-Fit Jr. Power Connector Kit**: Vertical Header and Receptacle	**$41.33**

molex®

Mini-Fit Jr.™ Terminals

Contact Material/Plating

A: Tin-plated copper alloy over nickel
B: Gold-plated phosphor bronze over nickel
C: Gold-plated brass over nickel
D: Tin-plated brass over copper
E: Tin-plated phosphor bronze

Male

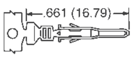

Female

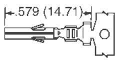

Description	Wire Size (AWG)	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	100	
Male	16	A	.071 ~ .122 (1.80 ~ 3.10)	WM1911-ND§	.33	2.73	19.48	44478-3112
Female	16	A		WM1913-ND§	.53	3.27	18.80	44476-3112
Male	16	B	.071 ~ .122 (1.80 ~ 3.10)	WM18520-ND	.98	8.06	57.55	39-00-0224
Female	16	B		WM18517-ND	1.01	8.30	59.30	39-00-0186
Male	16	C	.122 (3.10)	WM5963-ND	.74	6.11	43.63	39-00-0096
Male	16	C	.122 (3.10)	WM5963TR-ND†	1160.00/4,000			39-00-0095
Female	16	D	.122 (3.10)	WM3112CT-ND‡	—	.53	4.20	39-00-0077
Female	16	D	.122 (3.10)	WM3112TR-ND†	112.00/4,000			39-00-0077
Female	16	E	.122 (3.10)	WM3113CT-ND‡	—	1.29	10.30	39-00-0079
Female	16	E	.122 (3.10)	WM3113TR-ND†	276.00/4,000			39-00-0079
Male	16	D	.122 (3.10)	WM1016-ND	.17	1.53	10.18	39-00-0082
Male	16	D	.122 (3.10)	WM1016TR-ND†	124.00/4,000			39-00-0081
Male	16	E	.122 (3.10)	WM3114CT-ND‡	—	1.52	12.18	39-00-0083
Male	16	E	.122 (3.10)	WM3114TR-ND†	324.00/4,000			39-00-0083
Female	16	C	.122 (3.10)	WM3115-ND	.68	5.62	40.15	39-00-0090
Female	16	C	.122 (3.10)	WM3115TR-ND†	936.00/4,000			39-00-0089
Female	16	B	.122 (3.10)	WM3121-ND	.90	7.42	52.98	39-00-0158
Female	16	E	071 ~ .122 (1.80 ~ 3.10)	WM3118CT-ND‡	—	1.81	14.50	39-00-0217
Female	16	E		WM3118TR-ND†	388.00/4,000			39-00-0217
Male	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM2500-ND	—	2.57	11.38	39-00-0041
Male	18-24	D		WM2500CT-ND‡	—	—	6.22	39-00-0040
Male	18-24	D		WM2500TR-ND†	124.00/4,000			39-00-0040
Female	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM2501-ND	—	2.46	10.88	39-00-0039
Female	18-24	D		WM2501CT-ND‡	—	—	5.12	39-00-0038
Female	18-24	D		WM2501TR-ND†	96.00/4,000			39-00-0038
Male	18-24	B	.051 ~ .122 (1.30 ~ 3.10)	WM18521-ND	.98	8.06	57.55	39-00-0220
Male	18-24	B		WM18521TR-ND†	1584.00/4,000			39-00-0219
Female	18-24	B	.051 ~ .122 (1.30 ~ 3.10)	WM18518-ND	1.07	7.48	50.24	39-00-0182
Female	18-24	B		WM18518CT-ND‡	—	—	42.86	39-00-0181
Female	18-24	B		WM18518TR-ND†	1372.00/4,000			39-00-0181
Male	18-20	A	.051 ~ .122 (1.30 ~ 3.10)	WM1912-ND§	.33	2.73	19.48	44478-1112
Female	18-20	A		WM1914-ND§	.33	2.73	19.48	44476-1112
Female	18-24	B	.060 ~ .120 (1.52 ~ 3.05)	WM18523-ND	1.04	8.54	60.98	44485-1212
Male	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM3940-ND*	.34	2.77	19.75	30490-2012
Male	18-24	C		WM3942-ND	.74	6.11	43.62	39-00-0431
Female	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM5959TR-ND†	1060.00/4,000			39-00-0163
Male	18-24	B		WM3941-ND*	.99	8.19	58.48	30490-1012
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1138CT-ND‡	—	2.06	9.10	39-00-0059
Female	18-24	E		WM1138TR-ND†	170.88/4,000			39-00-0059
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1015-ND	.26	2.29	15.25	39-00-0060
Male	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1017-ND	.26	2.29	15.25	39-00-0062
Male	18-24	E		WM1017TR-ND†	276.00/4,000			39-00-0061
Female	18-24	B	.051 ~ .122 (1.30 ~ 3.10)	WM1139-ND	.90	7.42	52.98	39-00-0154
Female	18-24	B		WM1139CT-ND‡	—	3.80	29.02	39-00-0153
Female	18-24	B		WM1139TR-ND†	655.20/4,000			39-00-0153
Female	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM3116CT-ND‡	—	4.19	11.83	39-00-0207
Female	18-24	D		WM3116TR-ND†	116.48/4,000			39-00-0207
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM3117CT-ND‡	—	1.81	14.50	39-00-0213
Female	18-24	E		WM3117TR-ND†	388.00/4,000			39-00-0213
Female	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM1059-ND	.68	6.02	40.15	39-00-0429
Female	18-24	C		WM1140CT-ND‡	—	4.38	35.07	39-00-0428
Female	18-24	C		WM1140TR-ND†	776.00/4,000			39-00-0428
Male	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM3119CT-ND‡	—	5.10	40.83	39-00-0430
Male	18-24	C		WM3119TR-ND†	1088.00/4,000			39-00-0430
Male	22-28	C	0.35 ~ .071 (.90 ~ 1.80)	WM6094-ND	.68	6.02	40.15	39-00-0433
Male	22-28	D	.035 ~ .071 (.90 ~ 1.80)	WM2502-ND	—	1.42	10.18	39-00-0049
Male	22-28	D		WM2502TR-ND†	186.00/6,000			39-00-0048
Female	22-28	D		WM2503-ND	—	2.46	10.88	39-00-0047
Female	22-28	D		WM2503TR-ND†	168.00/6,000			39-00-0046
Male	22-28	B	.035 ~ .071 (.90 ~ 1.80)	WM18522-ND	.98	8.06	57.55	39-00-0222
Female	22-28	B		WM18519-ND	1.01	8.30	59.30	39-00-0184
Female	22-28	B		WM18519TR-ND†	2058.00/6,000			39-00-0183
Female	22-28	E	.035 ~ .071 (.90 ~ 1.80)	WM3111CT-ND‡	—	1.29	10.30	39-00-0065
Female	22-28	E		WM3111TR-ND†	414.00/6,000			39-00-0065
Female	22-28	B	.035 ~ .071 (.90 ~ 1.80)	WM3120-ND	.90	7.42	52.98	39-00-0156
Female	22-28	B		WM3120CT-ND‡	—	—	52.97	39-00-0155
Female	22-28	B		WM3120TR-ND†	1590.00/6,000			39-00-0155
Universal Crimp Tool				WM9999-ND	33.75/1			63811-1000
Hand Crimp Tool, 16-24AWG				WM9026-ND	203.49/1			63819-0900
Locator Assembly for 63819-0900				WM1190-ND ***NEW!***	37.80/1			63819-0975
Hand Crimp Tool, 16-28AWG				WM17551-ND ***NEW!***	100.80/1			64016-0200
Extraction Tool				WM9918-ND	15.30/1			11-03-0044
Polarizing Key				WM2579-ND	.52/1			15-04-0211

* Grounding pin ‡ Cut Tape † Tape and Reel § High Current

Mini-Fit SMC™ (Surface Mount Compatible™) Connectors

Surface Mount Compatible Headers, Dual Row

Fig. 1 – Right Angle

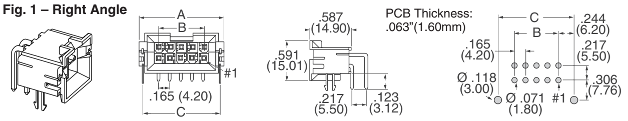

Fig. 2 – Vertical

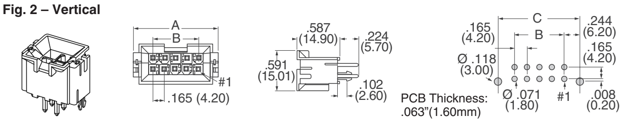

Fig.	Circuits	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Molex Part No.
		A	B	C		1	10	100	
1	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18457-ND	4.49	3.96	2.64	43810-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18458-ND	5.65	4.99	3.33	43810-0002
	10	1.237 (31.41)	.661 (16.80)	1.15 (29.20)	WM18459-ND	8.10	7.15	4.77	43810-0004
2	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18460-ND	4.04	3.57	2.38	44068-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18461-ND	5.09	4.49	3.00	44068-0002
	10	1.237 (31.41)	.661 (16.80)	1.15 (29.20)	WM18462-ND	6.52	5.75	3.84	44068-0004

Mini-Fit HCS™ (High Current System™) Connectors

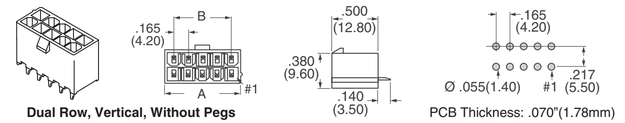

Dual Row, Vertical, Without Pegs

Circuits	Amps	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
		A	B		1	10	100	
2	12	.210 (5.40)	—	WM18449-ND	1.28	1.13	.76	44472-0254
4	11	.380 (9.60)	.170 (4.20)	WM18450-ND	1.99	1.76	1.17	44472-0454
6	11	.540 (13.80)	.330 (8.40)	WM18451-ND	2.69	2.38	1.59	44472-0654
8	10	.710 (18.00)	.500 (12.60)	WM18452-ND	3.39	3.00	2.00	44472-0854
10	10	.870 (22.20)	.660 (16.80)	WM18453-ND	4.09	3.61	2.41	44472-1054
12	9	1.04 (26.40)	.830 (21.00)	WM18454-ND	4.44	3.92	2.62	44472-1254
14	9	1.20 (30.60)	.990 (25.20)	WM18455-ND	5.49	4.85	3.23	44472-1454
16	9	1.37 (34.80)	1.16 (29.40)	WM18456-ND	6.18	5.46	3.64	44472-1654

5.08mm Disk Drive Power Connection System

Fig. 1

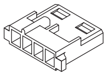

Fig. 2

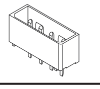

Fig. 3

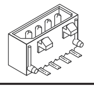

Fig.	Circuits	Description	Digi-Key Part No.	Price Each			Molex Part No.
				1	10	100	
1	4	Receptacle Housing	WM6982-ND	.82	.73	.49	15-24-4048
2	4	Vertical Header	WM6987-ND	1.45	1.13	.86	15-24-4557
3	4	Right Angle Header	WM6988-ND	2.00	1.77	1.18	15-24-4441

Power Connection Terminals

Description	Wire Size (AWG)	Max. Insulation Diameter Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
				1	10	100	
Female	14-20	.133(3.39)	WM6983-ND	.27	.24	.16	02-08-1202
Universal Crimp Tool (Molex)			WM9999-ND	33.75/1			63811-1000
Manual Wire Stripper (Molex)			WM9969-ND	63.00/1			63817-0000
Hand Crimp Tool (Molex)			WM17553-ND ***NEW!***	100.80/1			64016-0204

Kit

WM8497-ND (76650-0176) **Disk Drive Power Connector Kit**: PCB Vertical Header and Receptacle........ **$20.91**

Mini-Fit HCS™ (High Current System™) Crimp Terminals

Description	Wire Size (AWG)	Material/ Plating	Insulation Diameter Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	100	
Male	16	Tin-Plated Copper Alloy over Nickel	.071 ~ .122 (1.80 ~ 3.10)	WM1911-ND	.33	2.73	19.48	44478-3112
Female	16			WM1913-ND	.53	3.27	18.80	44476-3112
Female	16			WM1913CT-ND‡	—	—	19.96	44476-3111
Female	16			WM1913TR-ND†	400.00/4,000			44476-3111
Male	18-20	Tin-Plated Copper Alloy over Nickel	.051 ~ .122 (1.30 ~ 3.10)	WM1912-ND	.33	2.73	19.48	44478-1112
Male	18-20			WM1912TR-ND†	448.00/4,000			44478-1111
Female	18-20			WM1914-ND	.33	2.73	19.48	44476-1112
Female	18-24	Gold-plated Phosphor Bronze over Nickel	.060 ~ .120 (1.52 ~ 3.05)	WM18523-ND§	1.04	8.54	60.98	44485-1212

‡ Cut Tape † Tape and Reel § High Mating Cycle Terminal

molex® Mini-Fit BMI™ (Blind Mate Interface™) Connectors

RoHS COMPLIANT

Fig. 1 - Receptacle with Panel Mount Ears

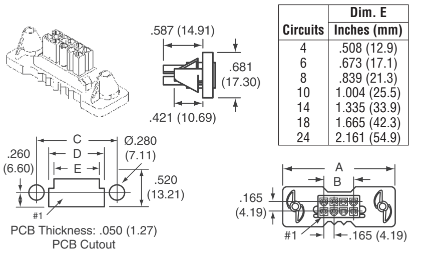

PCB Thickness: .050 (1.27)
PCB Cutout

Circuits	Dim. E Inches (mm)
4	.508 (12.9)
6	.673 (17.1)
8	.839 (21.3)
10	1.004 (25.5)
14	1.335 (33.9)
18	1.665 (42.3)
24	2.161 (54.9)

Fig. 2 - Plug with Panel Mount Ears

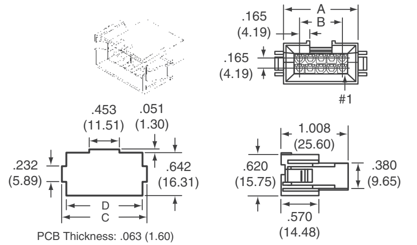

PCB Thickness: .063 (1.60)
PCB Cutout

Fig. 3 - Vertical Receptacle Header

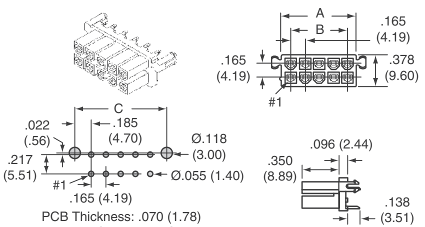

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 4 - Vertical Header

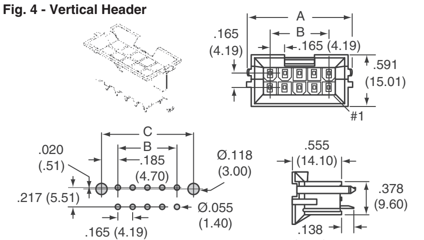

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 5 - Right Angle Header

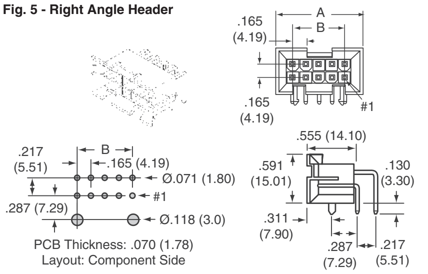

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 6 - Vertical Header with Pressfit Tail

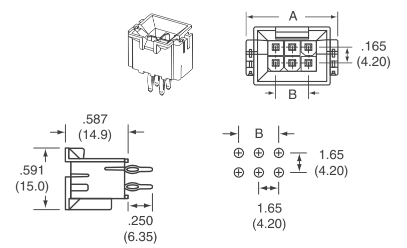

Features and Benefits:
• Blind mating • Will mate with Mini-Fit Jr. • Fully isolated terminals to protect contacts from damage • Uses standard Mini-Fit series terminals • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R75142

Specifications:
• Voltage: 600V • Current: 9.0A • Contact Resistance: 10mΩ Maximum • Dielectric Withstanding Voltage: 2200V • Insulation Resistance: 1000MΩ minimum • Housing: 6/6 nylon • Temperature: -40°C ~ 105°C

Cir-cuits	Dimensions – Inch (mm)				Digi-Key Part No.	Price Each			Molex Part No.
	A	B	C	D		1	10	100	
Fig. 1 — Receptacle with Panel Mount Ears, 94V-2									
4	1.583 (40.2)	.165 (4.2)	1.150 (29.2)	.693 (17.6)	WM17500-ND	.89	.79	.53	15-06-0040
6	1.748 (44.4)	.331 (8.4)	1.315 (33.4)	.858 (21.8)	WM17501-ND	.86	.77	.51	15-06-0060
8	1.913 (48.6)	.496 (12.6)	1.480 (37.6)	1.024 (26.0)	WM17704-ND	1.26	1.12	.75	15-06-0080
10	2.078 (52.8)	.661 (16.8)	1.645 (41.8)	1.189 (30.2)	WM17502-ND	1.37	1.21	.81	15-06-0100
14	2.409 (61.2)	.992 (25.2)	1.976 (50.2)	1.520 (38.6)	WM17503-ND	1.86	1.64	1.10	15-06-0140
18	2.740 (69.6)	1.323 (33.6)	2.307 (58.6)	1.850 (47.0)	WM17705-ND	2.28	2.02	1.35	15-06-0180
24	3.236 (82.2)	1.819 (46.2)	2.803 (71.2)	2.346 (59.6)	WM1023-ND	3.39	3.00	2.00	15-06-0240
Fig. 1 — Receptacle with Panel Mount Ears, 94V-0									
4	1.583 (40.2)	.165 (4.2)	1.150 (29.2)	.693 (17.6)	WM17706-ND	1.24	1.10	.73	15-06-0041
6	1.748 (44.4)	.331 (8.4)	1.315 (33.4)	.858 (21.8)	WM17707-ND	1.51	1.34	.89	15-06-0061
10	2.078 (52.8)	.661 (16.8)	1.645 (41.8)	1.189 (30.2)	WM17708-ND	1.70	1.51	1.01	15-06-0101
14	2.409 (61.2)	.992 (25.2)	1.976 (50.2)	1.520 (38.6)	WM17709-ND	2.33	2.06	1.37	15-06-0141
18	2.740 (69.6)	1.323 (33.6)	2.307 (58.6)	1.850 (47.0)	WM17710-ND	3.19	2.82	1.88	15-06-0181
24	3.236 (82.2)	1.819 (46.2)	2.803 (71.2)	2.346 (59.6)	WM17711-ND	4.26	3.76	2.51	15-06-0241
Fig. 2 — Plug with Panel Mount Ears, 94V-2									
4	.622 (15.8)	.165 (4.19)	.779 (19.79)	.642 (16.31)	WM17700-ND	.67	.60	.40	15-06-0045
6	.54 (13.8)	.33 (8.4)	945 (24.0)	.807 (20.5)	WM17701-ND	.78	.69	.46	15-06-0065
8	.71 (18.0)	.50 (12.6)	1.110 (28.2)	.972 (24.7)	WM17712-ND	.89	.79	.53	15-06-0085
10	.87 (22.2)	.66 (16.8)	1.276 (32.4)	1.138 (28.9)	WM17702-ND	.93	.83	.55	15-06-0105
14	1.20 (30.6)	.99 (25.2)	1.606 (40.8)	1.469 (37.3)	WM17703-ND	1.31	1.16	.78	15-06-0145
18	1.54 (39.0)	1.32 (33.6)	1.937 (49.2)	1.799 (45.7)	WM17719-ND	1.93	1.71	1.14	15-06-0185
24	2.03 (51.6)	1.82 (46.2)	2.433 (61.8)	2.295 (58.3)	WM1024-ND	2.56	2.26	1.51	15-06-0245
Fig. 2 — Plug with Panel Mount Ears, 94V-0									
4	.622 (15.80)	.165 (4.19)	.779 (19.79)	.642 (16.31)	WM17713-ND	.83	.74	.49	15-06-0046
6	.54 (13.8)	.33 (8.4)	.945 (24.0)	.807 (20.5)	WM17714-ND	.94	.84	.56	15-06-0066
10	.87 (22.2)	.66 (16.8)	1.276 (32.4)	1.138 (28.9)	WM17715-ND	1.30	1.15	.77	15-06-0106
14	1.20 (30.6)	.99 (25.2)	1.606 (40.8)	1.469 (37.3)	WM17716-ND	1.65	1.46	.97	15-06-0146
18	1.54 (39.0)	1.32 (33.6)	1.937 (49.2)	1.799 (45.7)	WM17717-ND	2.70	2.39	1.59	15-06-0186
24	2.03 (51.6)	1.82 (46.2)	2.433 (61.8)	2.295 (58.3)	WM17718-ND	3.60	3.18	2.12	15-06-0246
Fig. 3 — Vertical Tin Receptacle Header, 94V-2									
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	WM17600-ND	2.06	1.82	1.22	15-24-7040
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	WM17601-ND	2.62	2.32	1.55	15-24-7060
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	WM17602-ND	3.33	2.94	1.96	15-24-7100
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	WM17603-ND	3.84	3.40	2.27	15-24-7140
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	WM17742-ND	4.87	4.30	2.87	15-24-7160
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	WM17744-ND	6.06	5.35	3.57	15-24-7180
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	WM1025-ND	7.19	6.35	4.24	15-24-7240
Fig. 3 — Vertical Gold Header, 94V-0									
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	WM17729-ND	3.84	3.39	2.26	15-24-7043
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	WM17730-ND	5.65	4.99	3.33	15-24-7063
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	WM17743-ND	7.75	6.84	4.56	15-24-7103
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	WM17731-ND	11.78	10.40	6.93	15-24-7143
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	WM17732-ND	13.36	11.79	7.86	15-24-7163
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	WM17733-ND	14.95	13.19	8.80	15-24-7183
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	WM17734-ND	19.97	17.63	11.75	15-24-7243
Fig. 3 — Vertical Tin Header, 94V-0									
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	WM17735-ND	2.29	2.02	1.35	15-24-7041
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	WM17736-ND	2.62	2.32	1.55	15-24-7061
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	WM17737-ND	3.75	3.31	2.21	15-24-7101
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	WM17738-ND	4.86	4.29	2.87	15-24-7141
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	WM17739-ND	5.48	4.84	3.23	15-24-7161
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	WM17740-ND	6.09	5.38	3.59	15-24-7181
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	WM17741-ND	8.12	7.17	4.78	15-24-7241
Fig. 4 — Vertical Tin Header, 94V-2									
4	.685 (17.4)	.170 (4.32)	.535 (13.59)	—	WM17900-ND	2.00	1.77	1.18	15-24-6046-P
10	1.181 (30.0)	.660 (16.76)	1.031 (26.19)	—	WM17901-ND	3.24	2.86	1.91	15-24-6106
Fig. 5 — Right Angle Tin Header, 94V-2									
4	.59 (15.0)	.165 (4.2)	—	—	WM17800-ND	1.93	1.71	1.14	15-24-6040
6	.76 (19.2)	.33 (8.4)	—	—	WM17801-ND	2.75	2.43	1.62	15-24-6060
10	1.09 (27.6)	.661 (16.8)	—	—	WM17802-ND	3.92	3.46	2.31	15-24-6100
14	1.42 (36.0)	.992 (25.2)	—	—	WM17803-ND	4.53	4.00	2.67	15-24-6140
18	1.75 (44.4)	1.323 (33.6)	—	—	WM17720-ND	5.70	5.03	3.36	15-24-6180
24	2.24 (57.0)	1.819 (46.2)	—	—	WM17721-ND	7.60	6.71	4.47	15-24-6240
Fig. 5 — Right Angle Tin Header, 94V-0									
4	.59 (15.0)	.165 (4.2)	—	—	WM17722-ND	2.21	1.96	1.31	15-24-9044
6	.76 (19.2)	.33 (8.4)	—	—	WM17723-ND	2.80	2.47	1.65	15-24-9064
10	1.09 (27.6)	.661 (16.8)	—	—	WM17724-ND	4.00	3.54	2.36	15-24-9104
14	1.42 (36.0)	.992 (25.2)	—	—	WM17725-ND	5.19	4.59	3.06	15-24-9144
16	1.58 (40.2)	1.157 (29.4)	—	—	WM17726-ND	5.85	5.17	3.45	15-24-9164
18	1.75 (44.4)	1.323 (33.6)	—	—	WM17727-ND	6.52	5.75	3.84	15-24-9184
24	2.24 (57.0)	1.819 (46.2)	—	—	WM17728-ND	8.69	7.67	5.11	15-24-9244
Fig. 6 — Vertical Header with Pressfit Tail, 94V-0									
4	.740 (18.81)	.165 (4.2)	—	—	WM17804-ND	5.17	4.56	3.04	43879-0022
6	.906 (23.01)	.331 (8.4)	—	—	WM17805-ND	6.54	5.77	3.85	43879-0023
10	1.237 (31.41)	.661 (16.8)	—	—	WM17806-ND	9.35	8.25	5.50	43879-0025
14	1.567 (39.81)	.992 (25.2)	—	—	WM17807-ND	12.53	11.06	7.37	43879-0027
18	1.898 (48.21)	1.323 (33.6)	—	—	WM17808-ND	15.33	13.53	9.02	43879-0029
24	2.394 (60.81)	1.819 (46.2)	—	—	WM17809-ND	23.74	20.95	13.97	43879-0032

Kits

WM8471-ND	(76650-0146)	**Deluxe Multi BMI Blind Mate Application Kit**: (Includes EBBI 50D, SPOX BMI™, Micro-Fit 3.0 BMI™, Mini-Fit BMI Product Families)	**$64.61**
WM8430-ND	(76650-0158)	**Mini-Fit BMI Connector Kit**: (Blind Mate Vertical and Right Angle Header, Vertical Receptacle Header, Plug and Receptacle)	**$48.18**

molex® Mini-Fit, Sr.™ Connectors (50 Amps)

Features: • High current up to 50 Amp • Fully polarized • Positive locks • Low engagement force • Wire-to-wire, wire-to-board **Electrical:** • Voltage: 600V • Current: 50A maximum **Physical:** • Housing: Polyester/HT Thermoplastic • Contact: Copper alloy • Plating: Tin/lead over nickel • Temperature: -40°C ~ 105°C **Approvals:** • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R9751144/R9950481

Fig. 1

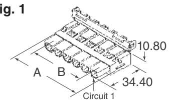

Fig. 2

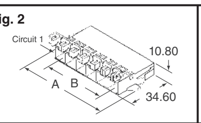

Fig. 3

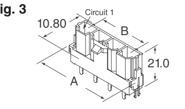

Fig. 4

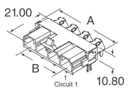

Fig. 5

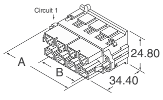

Fig. 6

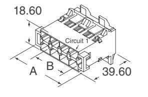

Fig. 7

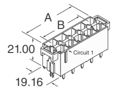

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Receptacle Housing — Single Row									
1	2	23.50	10.00	—	WM1927-ND	1.15	.90	.69	42816-0212
	3	33.50	20.00	—	WM1928-ND	2.00	1.77	1.18	42816-0312
	4	43.50	30.00	—	WM1929-ND	1.86	1.45	1.11	42816-0412
	5	53.50	40.00	—	WM1930-ND	2.45	2.16	1.44	42816-0512
	6	63.50	50.00	—	WM1931-ND	2.67	2.36	1.57	42816-0612
Plug Housing — Single Row — Panel Mount									
2	2	31.30	10.00	—	WM1932-ND	1.85	1.64	1.09	42818-0212
	3	41.30	20.00	—	WM1933-ND	2.08	1.84	1.23	42818-0312
	4	51.30	30.00	—	WM1934-ND	2.31	2.05	1.37	42818-0412
	5	61.30	40.00	—	WM1935-ND	2.54	2.25	1.50	42818-0512
	6	71.30	50.00	—	WM1936-ND	2.78	2.45	1.64	42818-0612
Header — Single Row — Vertical with Metal Clip Mount (Surface Mount Compatible)									
3	2	23.82	10.00	Tin	WM1937-ND	3.64	3.22	2.15	42819-2212
	3	33.82	20.00	Tin	WM1938-ND	4.73	4.18	2.79	42819-3212
	4	43.82	30.00	Tin	WM1939-ND	5.43	4.80	3.20	42819-4212
	5	53.82	40.00	Tin	WM1940-ND	6.95	6.14	4.10	42819-5212
	6	63.82	50.00	Tin	WM1941-ND	8.23	7.27	4.85	42819-6212
Header — Single Row — Right Angle with Metal Clip Mount (Surface Mount Compatible)									
4	2	23.82	10.00	Tin	WM1942-ND	4.92	4.35	2.90	42820-2212
	3	33.82	20.00	Tin	WM1943-ND	6.65	5.87	3.92	42820-3212
	4	43.82	30.00	Tin	WM1944-ND	7.99	7.05	4.70	42820-4212
	5	53.82	40.00	Tin	WM1945-ND	9.28	8.20	5.47	42820-5212
	6	63.82	50.00	Tin	WM1946-ND	10.97	9.68	6.46	42820-6212
Receptacle Housing — Dual Row									
5	6	45.70	20.00	—	WM2240-ND	5.21	4.60	3.07	43914-1101
	8	55.70	30.00	—	WM2241-ND	5.88	5.19	3.46	43914-1102
	10	65.70	40.00	—	WM2242-ND	6.51	5.75	3.83	43914-1103
	12	75.70	50.00	—	WM2243-ND	6.91	6.11	4.07	43914-1104
	14	85.70	60.00	—	WM2244-ND	7.53	6.65	4.43	43914-1105
Plug Housing — Dual Row — Panel Mount									
6	6	41.30	20.00	—	WM2245-ND	5.21	4.60	3.07	43938-2101
	8	51.30	30.00	—	WM2246-ND	5.88	5.19	3.46	43938-2102
	10	61.30	40.00	—	WM2247-ND	6.51	5.75	3.83	43938-2103
	12	71.30	50.00	—	WM2248-ND	6.91	6.11	4.07	43938-2104
	14	81.30	60.00	—	WM2249-ND	7.53	6.65	4.43	43938-2105
Header — Dual Row — Vertical									
7	6	30.90	20.00	Tin	WM2250-ND	12.42	10.96	7.31	43915-1101
	8	40.90	30.00	Tin	WM2251-ND	16.05	14.17	9.45	43915-1102
	10	50.90	40.00	Tin	WM2252-ND	19.63	17.32	11.55	43915-1103
	12	60.90	50.00	Tin	WM2253-ND	23.25	20.52	13.68	43915-1104
	14	70.90	60.00	Tin	WM2254-ND	26.95	23.79	15.86	43915-1105

Kits

WM8534-ND (76650-0220) **Mini-Fit Sr. Power Connector Kit**; (Gold R/A Header, Plug and Receptacle)......... **$38.66**

WM8416-ND (76650-0002) **Mini-Fit Sr. Power Connector Kit**; (Fully Polarized Single Row Plug and Receptacle).. **$27.62**

Mini-Fit, Sr.™ Terminals

Fig. 1

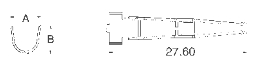

Fig. 2

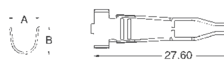

Fig.	Desc.	Wire Size (AWG)	Dimension (mm) A	Dimension (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	Female	8	6.00	5.50	Tin	WM1915-ND	.71	.63	.42	42815-0031-C
	Female	8	6.00	5.50	Gold	WM1949-ND	1.12	1.00	.67	42815-0032-C
	Female	10 ~ 12	5.90	6.60	Tin	WM1947-ND	.71	.63	.42	42815-0011-C
	Female	10 ~ 12	5.90	6.60	Gold	WM1951-ND	1.12	1.00	.67	42815-0012-C
2	Male	8	6.00	5.50	Tin	WM1916-ND	.71	.63	.42	42-817-0031
	Male	8	6.00	5.50	Gold	WM1950-ND	1.12	1.00	.67	42817-0032
	Male	10 ~ 12	5.90	6.60	Tin	WM1948-ND	.71	.63	.42	42-817-0011
	Male	10 ~ 12	5.90	6.60	Gold	WM1952-ND	1.12	1.00	.67	42-817-0012
–	Crimp Tool, 8AWG					WM9960-ND	287.28	—	—	63811-1500
	Crimp Tool, 10 ~ 12AWG					WM9962-ND	287.28	—	—	63811-1600
	Crimp Tool, 8 ~ 12AWG					WM17550-ND ***NEW!***	100.80	—	—	64016-0170
	Extraction Tool					WM9961-ND	63.00	—	—	63813-0400

NEW! Mini-Fit, H_2O™ Terminals

Fig. 1

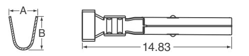

Fig. 2

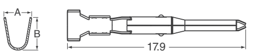

Fig. 3

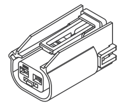

Fig. 4

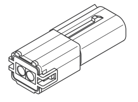

Fig.	Desc.	Wire Size (AWG)	Dimensions (mm) A	Dimensions (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	Female	18 ~ 20	3.20	3.48	Tin	WM4413CT-ND†	.34	.20	.09	46055-0005
	Female	18 ~ 20	3.20	3.48	Tin	WM4413TR-ND‡	181.12/4,000			46055-0005
	Female	18 ~ 20	3.20	3.48	Tin	WM4414-ND	.50	.31	.16	46055-0007
2	Male	18 ~ 20	3.20	3.48	Tin	WM4415CT-ND†	.34	.20	.09	46056-0002
	Male	18 ~ 20	3.20	3.48	Tin	WM4415TR-ND‡	181.12/4,000			46056-0002
	Male	18 ~ 20	3.20	3.48	Tin	WM4416-ND	.50	.31	.16	46056-0004
3	Sealed Receptacle, 4.20mm, 2 position, black					WM4411-ND	4.06	3.37	2.53	46064-0032
4	Sealed Plug, 4.20mm, 2 position, black					WM4412-ND	4.06	3.37	2.53	46065-0032
–	Crimp Tool, 18 ~ 20AWG					WM9042-ND	269.33	—	—	63819-1800
	Locator Assembly for 63819-1800					WM1198-ND	37.80	—	—	63819-1875

† Cut Tape ‡ Tape and Reel

7.50 Pitch Sabre™ Connectors

Features and Benefits: • Patented new integral Terminal Position Assurance (TPA) on mated male and female terminal • Virtually eliminates terminal backout • Wire-to-wire and wire-to-board connector system • Polarized housing assures proper mating • Terminals are fully isolated in housing • Positive latch reduces accidental disengagement from plug **Electrical:** • Voltage: 600VAC • Current: 18A • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 5000VAC, 1 minute • Insulation Resistance: 1000MΩ minimum **Mechanical:** • Contact Insertion Force: 2 pounds maximum • Contact Retention to Housing: 20 pounds minimum • Wire Pull-Out Force: 20 pounds minimum • Mating Force: 3 pounds maximum • Unmating Force: 1 pound minimum • Normal Force: 3 pounds nominal • Durability: 25 cycles **Physical:** • Housing: Nylon, 94V-0 • Temperature: -40°C ~ 75°C • Approvals: UL File No.: E29179 and Ul1950; CSA File No.: LR19980

Fig. 1 – Receptacle

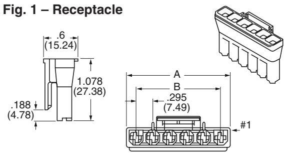

Fig. 2 – Wire-to-Wire Plug

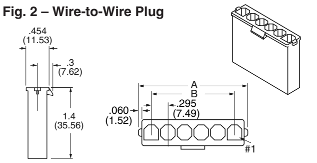

Fig. 3 – Vertical Wire-to-Board Header

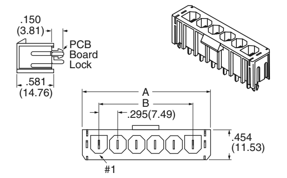

.002” (.062mm) PCB thickness on headers with board lock

Fig. 4 – Right Angle Wire-to-Board Header

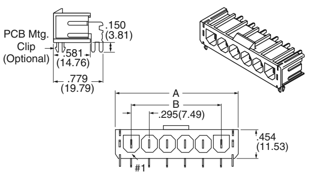

.002” (.062mm) PCB thickness on headers with board lock

Fig.	Circuits	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Single Row Receptacle								
1	2	.623 (15.82)	.295 (7.49)	WM18463-ND	.95	.84	.56	44441-2002
	3	.918 (23.32)	.590 (14.99)	WM18464-ND	1.16	.82	.55	44441-2003
	4	1.213 (30.81)	.885 (22.48)	WM18465-ND	1.30	1.16	.77	44441-2004
	5	1.508 (38.30)	1.180 (29.97)	WM18466-ND	1.59	1.40	.94	44441-2005
	6	1.803 (45.80)	1.475 (37.47)	WM18467-ND	1.74	1.54	1.03	44441-2006
Single Row Plug								
2	2	.745 (18.92)	.295 (7.49)	WM18468-ND	1.02	.90	.60	43680-2002
	3	1.040 (26.42)	.590 (14.99)	WM18469-ND	1.17	1.04	.69	43680-2003
	4	1.335 (33.91)	.885 (22.48)	WM18470-ND	1.36	1.20	.80	43680-2004
	5	1.630 (41.40)	1.180 (29.97)	WM18471-ND	1.60	1.41	.94	43680-2005
	6	1.925 (48.90)	1.475 (37.47)	WM18472-ND	1.81	1.60	1.07	43680-2006
Vertical Header (Surface Mount Compatible) — Without Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18473-ND	1.96	1.74	1.16	43160-0102
	3	1.125 (28.58)	.590 (14.99)	WM18474-ND	2.74	2.42	1.62	43160-0103
	4	1.420 (36.07)	.885 (22.48)	WM18475-ND	2.88	2.55	1.70	43160-0104
	5	1.715 (43.56)	1.180 (29.97)	WM18476-ND	3.35	2.96	1.98	43160-0105
	6	2.010 (51.05)	1.475 (37.47)	WM18477-ND	3.80	3.36	2.24	43160-0106
Vertical Header (Surface Mount Compatible) — With Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18478-ND	2.03	1.80	1.20	43160-2102
	3	1.125 (28.58)	.590 (14.99)	WM18479-ND	2.45	2.17	1.45	43160-2103
	4	1.420 (36.07)	.885 (22.48)	WM18480-ND	3.26	2.88	1.92	43160-2104
	5	1.715 (43.56)	1.180 (29.97)	WM18481-ND	3.35	2.96	1.98	43160-2105
	6	2.010 (51.05)	1.475 (37.47)	WM18482-ND	3.77	3.34	2.23	43160-2106
Right Angle Header (Surface Mount Compatible) — Without Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18483-ND	2.18	1.93	1.29	43160-1102
	3	1.125 (28.58)	.590 (14.99)	WM18484-ND	2.68	2.37	1.58	43160-1103
	4	1.420 (36.07)	.885 (22.48)	WM18485-ND	3.17	2.80	1.87	43160-1104
	5	1.715 (43.56)	1.180 (29.97)	WM18486-ND	3.66	3.24	2.16	43160-1105
	6	2.010 (51.05)	1.475 (37.47)	WM18487-ND	4.15	3.67	2.45	43160-1106
Right Angle Header (Surface Mount Compatible) — With Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18488-ND	2.27	2.00	1.34	43160-3102
	3	1.125 (28.58)	.590 (14.99)	WM18489-ND	2.70	2.39	1.59	43160-3103
	4	1.420 (36.07)	.885 (22.48)	WM18490-ND	3.52	3.11	2.08	43160-3104
	5	1.715 (43.56)	1.180 (29.97)	WM18491-ND	4.01	3.54	2.36	43160-3105
	6	2.010 (51.05)	1.475 (37.47)	WM18492-ND	4.03	3.56	2.37	43160-3106

Kit

WM8481-ND (76650-0160) **Sabre Power Connector Kit**; (Free Hanging Plug and Receptacle).................... **$30.78**

molex

RoHS

7.50 Pitch Sabre™ Terminals

Descrip-tion	Wire Size (AWG)	Max. Insulation Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	14 ~ 16	.130 (3.30)	WM18493-ND	.14	.13	.09	43-375-0001
Male	(1) 18	.130 (3.30)	WM18495-ND	.17	.16	.11	43-178-1002
Female	14 ~ 18	.180 (4.57)	WM18494-ND	.14	.13	.09	43-375-1001
Male	(2) 18	.180 (4.57)	WM18496-ND	.17	.16	.11	43-178-2002

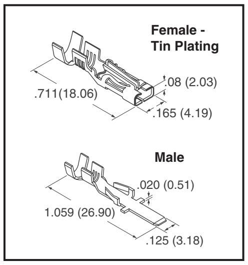

Sabre™ Tools

Description	Digi-Key Part No.	Price Each	Molex Part No.
Crimp Tool for 14 ~ 18AWG - Female, 18AWG - Male	WM1618-ND†	269.33	63811-7200
Crimp Tool for 14 ~ 18AWG or (2) 18AWG - Female	WM1617-ND	269.33	63811-7300
Crimp Tool for 14 ~ 18 or (2) 18AWG - Male	WM1562-ND	299.25	63811-2100
Extraction Tool for Male Contacts	WM9910-ND	75.60	63813-0800
Extraction Tool for Female Contacts	WM9899-ND	44.10	63813-2700
Manual Wire Stripper (Molex)	WM9969-ND	63.00	63817-0000

† Will not crimp (2) 18AWG contacts.

Power Connectors

.062" Diameter Connectors

RoHS

Features:
- UL File Number E-29179; CSA File Number LR-19980 • Up to 5 amperes per circuit • 250 Voltage rating • Friction lock • Standard color is natural (*Ratings are per circuit and based on fully loaded housings.*)

Grid Patterns — *(Contacts sold separately)*

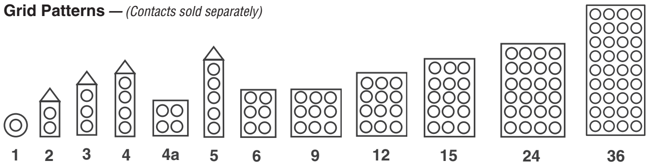

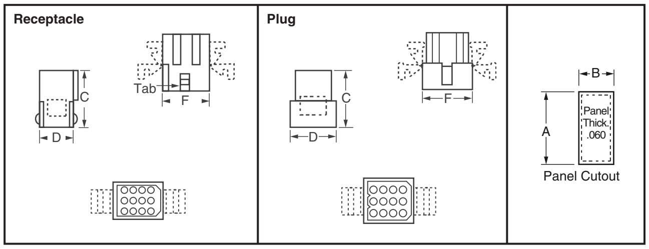

Grid Space	Grid No.	Type	Maximum (A)	(V)	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.145"	1	Plug	5	250	—	—	.750	—	—	WM1201-ND	.19	1.53	10.93	03-06-2011
	1	Recept.	5	250	—	—	.780	—	.183	WM1200-ND	.19	1.53	10.93	03-06-1011
	2	Plug	5	250	.609	.318	.780	.300	.440	WM1220-ND	.41	2.53	12.65	03-06-2023
	2	Recept.	5	250	.505	.265	.810	.192	.340	WM1230-ND	.29	2.38	17.03	03-06-1023
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1221-ND	.36	2.99	21.36	03-06-2032
	3	Recept.	5	250	.650	.265	.780	.192	.484	WM1231-ND	.36	2.99	21.36	03-06-1032
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1222-ND	.61	3.79	21.78	03-06-2042
	4	Recept.	5	250	.785	.260	.780	.192	.630	WM1232-ND	.51	4.21	30.10	03-06-1042
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1223-ND	.51	4.21	30.10	03-06-2044
	4a	Recept.	5	250	.506	.400	.750	.339	.339	WM1233-ND	.51	4.21	30.10	03-06-1044
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1224-ND	.56	4.59	32.80	03-06-2055
	5	Recept.	5	250	.940	.265	.780	.192	.775	WM1234-ND	.56	4.59	32.80	03-06-1056
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1225-ND	.57	4.72	33.70	03-06-2061
	6	Recept.	5	250	.552	.505	.780	.494	.344	WM1235-ND	.57	4.72	33.70	03-06-1062
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1226-ND	.59	4.84	34.60	03-06-2092
	9	Recept.	5	250	.650	.552	.780	.494	.489	WM1236-ND	.59	4.84	34.60	03-06-1092
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1227-ND	.60	4.97	35.51	03-06-2122
	12	Recept.	5	250	.795	.563	.780	.494	.634	WM1237-ND	.60	4.97	35.51	03-06-1122
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1228-ND	.76	6.23	44.52	03-06-2152
	15	Recept.	5	250	.934	.563	.780	.487	.776	WM1238-ND	.76	6.23	44.52	03-06-1152
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1229-ND	2.10	17.31	123.63	03-06-2242
Connector Housings — with Mounting Ears and Detent, Panel Mount														
.145"	2	Plug	5	250	.609	.318	.780	.300	.440	WM1203-ND	.29	2.38	17.03	03-06-2024
	2	Recept.	5	250	.505	.265	.810	.192	.340	WM1202-ND	.29	2.38	17.03	03-06-1022
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1205-ND	.36	2.99	21.36	03-06-2033
	3	Recept.	5	250	.650	.265	.780	.192	.484	WM1204-ND	.36	2.99	21.36	03-06-1038
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1207-ND	.53	4.38	31.30	03-06-2041
	4	Recept.	5	250	.785	.260	.780	.192	.630	WM1206-ND	.51	4.21	30.10	03-06-1041
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1209-ND	.51	4.21	30.10	03-06-2043
	4a	Recept.	5	250	.506	.400	.750	.339	.339	WM1208-ND	.51	4.21	30.10	03-06-1043
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1240-ND	.56	4.59	32.80	03-06-2054
	5	Recept.	5	250	.940	.265	.780	.192	.775	WM1241-ND	.56	4.59	32.80	03-06-1055
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1211-ND	.57	4.72	33.70	03-06-2062
	6	Recept.	5	250	.552	.505	.780	.494	.344	WM1210-ND	.57	4.72	33.70	03-06-1061
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1213-ND	.59	4.84	34.60	03-06-2091
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1215-ND	.60	4.97	35.51	03-06-2121
	12	Recept.	5	250	.795	.563	.780	.494	.634	WM1214-ND	.60	4.97	35.51	03-06-1121
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1217-ND	.76	6.23	44.52	03-06-2151
	15	Recept.	5	250	.930	.569	.780	.530	.770	WM1589-ND	.75	6.60	44.03	03-06-6155
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1219-ND	2.10	17.31	123.63	03-06-2241
	24	Recept.	5	250	1.079	.715	.750	.634	.918	WM1218-ND	2.03	16.68	119.13	03-06-1241
.165"	36	Plug	4	—	1.795	.825	.750	1.02	1.622	WM1588-ND	2.48	21.88	145.85	03-06-2361
	36	Recept.	4	—	1.677	.707	.781	.855	1.505	WM1587-ND	2.41	21.27	141.80	03-06-1361

.062" Terminals

RoHS

Features:
- Use with .062" housings • .008" stock 70/30 brass • **Temperature Range:** -40°C ~ 105°C • **High Voltage Test:** Withstands 1,500V RMS for 60 seconds • **Current Rating:** Amperage rating 5A • **Storage Temperature Range:** -40°C ~ 125°C • **Plating:** 200-300µ Hot-Tin Dip tin plating

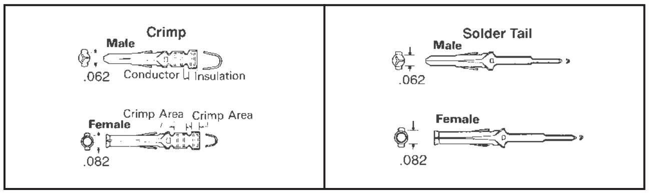

Description	Wire Size (AWG)	Insulation Diameter (Inch)	Digi-Key Part No.	Pricing 10	100	500	Mfg. Part No.
Male, Crimp Type	18 ~ 24	.060/.120	WM1000-ND	1.92	8.49	32.88	02-06-2103
Female, Crimp Type	18 ~ 24	.060/.120	WM1001-ND	1.60	7.10	27.48	02-06-1103
Male, Crimp Type	24 ~ 30	.040/.090	WM1002-ND	1.00	7.98	33.25	02-06-2132
Female, Crimp Type	24 ~ 30	.040/.090	WM1003-ND	.95	7.56	31.50	02-06-1132
Female, Crimp Type	24 ~ 30	.040/.090	WM1003TR-NDΔ	600.00/20,000			02-06-1131
Male, PCB Solder-Tail	—	—	WM1004-ND	1.37	10.92	45.50	02-06-8103
Female, PCB Solder-Tail	—	—	WM1005-ND	1.37	10.92	45.50	02-06-7103
Male, Crimp Type	18 ~ 24	.060/.120	WM1006-ND†	6.03	48.24	201.00	02-06-6103
Male, Crimp Type	24 ~ 30	.040/.090	WM1007-ND†	6.03	48.24	201.00	02-06-6135
Female, Crimp Type	18 ~ 24	.060/.120	WM1008-ND†	6.03	48.24	201.00	02-06-5103
Female, Crimp Type	18 ~ 24	.060/.120	WM1008TR-ND†Δ	1590.00/6,000			02-06-5100
Female, Crimp Type	24 ~ 30	.040/.090	WM1009-ND†	6.03	48.24	201.00	02-06-5135
Male, PCB	—	—	WM1010-ND†	6.69	53.55	223.13	02-06-6122
Female, PCB	—	—	WM1011-ND†	6.69	53.55	223.13	02-06-7104
Tools							
Hand Crimp Tool (Waldom)	18 ~ 30	—	WM9900-ND	15.31/1			W-HT-1921
Hand Extraction Tool (Waldom)	18 ~ 30	—	WM1586-ND	20.95/1			W-HT-2023
Hand Crimp Tool	18 ~ 30	—	WM17554-ND✔	100.80/1			64016-0205
Universal Crimp Tool	—	—	WM9999-ND	33.75/1			63811-1000
Hand Crimp Tool	22 ~ 30	—	WM9021-ND	269.33/1			63819-0800
Locator Assembly for 63819-0800	—	—	WM1197-ND✔	37.80/1			63819-0875
Crimp Tool	18 ~ 24	—	WM9025-ND	203.49/1			63819-1300
Locator Assembly for 63819-1300	—	—	WM1194-ND✔	37.80/1			63819-1375
Extraction Tool	—	—	WM9929-ND	16.92/1			11-03-0002
Insertion Tool	18 ~ 30	—	WM5115-ND✔	15.30/1			0011020001

† 15µ" Select Gold Finish   Δ Tape and Reel   ✔ ***NEW!***

Cable Connector Designer Kit

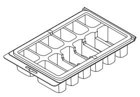

- Contains all parts needed to assemble male and female connectors; totals 86 connectors.
- All have pin terminal size .062" diameter with crimping tool, pin terminal ejector and case.

WM9979-ND (76650-0012) **$53.88**

Kits

WM8370-ND (76650-0062) **Standard .062" Power Connector Kit**;
(Free Hanging Plug and Receptacle, 1 Circuit) **$3.90**

WM8352-ND (76650-0063) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 2 Circuit) **$3.92**

WM8356-ND (76650-0064) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 3 Circuit) **$4.96**

WM8358-ND (76650-0065) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 4 Circuit) **$4.51**

WM8376-ND (76650-0066) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 5 Circuit) **$5.09**

WM8362-ND (76650-0067) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 6 Circuit) **$5.52**

WM8366-ND (76650-0068) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 9 Circuit) **$3.73**

WM8372-ND (76650-0069) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 12 Circuit) **$4.25**

WM8378-ND (76650-0070) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 15 Circuit) **$5.26**

WM8386-ND (76650-0071) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 24 Circuit) **$9.86**

WM8394-ND (76650-0073) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 36 Circuit) **$13.37**

WM9800-ND (76650-0019) **Standard .062" Power Connector Kit**;
(Panel Mount Plug and Receptacle, with Extraction and Universal Crimp Tool, 5A, 250V).......... **$33.67**

(Continued)

.084" Diameter MLX™ Connectors

Features:

• Inter-mateable, inter-mountable and inter-changeable with industry standard versions • Cross tested to assure industry compatibility • UL recognized, CSA certified • Positive locks • Fully isolated contacts • Circuit I.D. grooves to reduce assembly errors • Anti-stress positioning tabs to reduce breakage

Grid Patterns

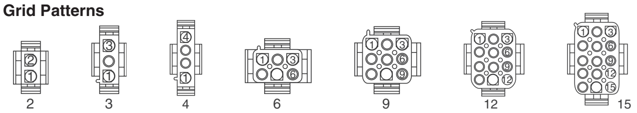

Fig. 1 - Plug

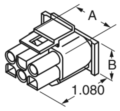

Fig. 2 - Cap

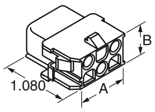

Cap Panel Cutout

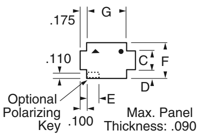

Digi-Key Part No.	Dimensions (Inches)				
	C‡	D	E	F	G
WM1243-ND	.34	.095	.25	.53	.565
WM1245-ND	.34	.095	.25	.53	.815
WM1247-ND	.34	.095	.25	.53	1.065
WM1249-ND	.34	.275	.25	1.03	.565
WM1251-ND	.48	.275	.25	1.03	.815
WM1253-ND	.48	.275	.35	1.03	1.065
WM1255-ND	.48	.275	.35	1.03	1.315

▲ Circuit #1 location when using polarizing key option with 2, 3 and 4 circuit housing.

● Circuit #1 location when using polarizing key option with 6, 9, 12 and 15 circuit housing.

‡ Cap housing should be installed into panel in the same direction as the panel cutout is punched

Fig. 3 - Vertical Header

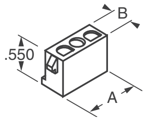

2, 3 and 4 Position Vertical Header P.C. Board Layout Dimension

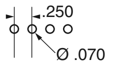

6, 9, 12 and 15 Position Header Assemblies

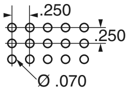

Posi-tions	Amperes/ Circuit (Max.)†	Voltage Rating (Max.)†	Panel Cutout Dimension (Inch)		Digi-Key Part No.	Pricing				Molex Part No.
			A	B		1	10	100	500	
Fig. 1 – Plug										
2	13.5	600	.30	.55	WM1242-ND	.24	2.07	13.83	55.30	50-84-1020
3	13.5	600	.30	.80	WM1244-ND	.28	2.49	16.58	66.30	50-84-1030
4	13.5	600	.30	1.05	WM1246-ND	.32	2.84	18.90	75.60	50-84-1040
6	11.0	600	.80	.55	WM1248-ND	.37	3.23	21.55	86.20	50-84-1060
9	11.0	600	.80	.80	WM1250-ND	.44	3.88	25.88	103.50	50-84-1090
12	11.0	600	.80	1.05	WM1252-ND	.66	5.85	39.00	156.00	50-84-1120
15	11.0	600	.80	1.30	WM1254-ND	.74	6.52	43.45	173.80	50-84-1150
Fig. 2 – Cap										
2	13.5	600	.30	.55	WM1243-ND	.29	2.59	17.25	69.00	50-84-2020
3	13.5	600	.30	.80	WM1245-ND	.34	2.98	19.85	79.40	50-84-2030
4	13.5	600	.30	1.05	WM1247-ND	.35	3.09	20.58	82.30	50-84-2040
6	11.0	600	.80	.55	WM1249-ND	.40	3.55	23.68	94.70	50-84-2060
9	11.0	600	.80	.80	WM1251-ND	.51	4.50	30.03	120.10	50-84-2090
12	11.0	600	.80	1.05	WM1253-ND	.80	7.08	47.23	188.90	50-84-2120
15	11.0	600	.80	1.30	WM1255-ND	.90	7.92	52.83	211.30	50-84-2150
Fig. 3 – Vertical Header										
Female										
2	—	—	.30	.55	WM1263-ND	.51	4.53	30.23	120.90	10-84-4022
4	—	—	.30	1.05	WM1265-ND	.83	7.31	48.75	195.00	10-84-4042
6	—	—	.80	.55	WM1266-ND	1.71	15.08	100.55	402.20	10-84-4062
9	—	—	.80	.80	WM1267-ND	1.70	15.02	100.15	400.60	10-84-4092
12	—	—	.80	1.05	WM1268-ND	2.42	21.33	142.23	568.90	10-84-4122
15	—	—	.80	1.30	WM1269-ND	2.71	23.92	159.45	637.80	10-84-4152
Male										
2	—	—	.30	.55	WM1256-ND	.60	5.30	35.33	141.30	10-84-4020
3	—	—	.30	.80	WM1257-ND	.83	7.30	48.65	194.60	10-84-4030
4	—	—	.30	1.05	WM1258-ND	.91	8.00	53.33	213.30	10-84-4040
6	—	—	.80	.55	WM1259-ND	1.35	11.95	79.68	318.70	10-84-4060
9	—	—	.80	.80	WM1260-ND	1.67	14.78	98.53	394.10	10-84-4090
12	—	—	.80	1.05	WM1261-ND	2.19	19.31	128.73	514.90	10-84-4120
15	—	—	.80	1.30	WM1262-ND	2.78	24.51	163.43	653.70	10-84-4150

† Ratings are per circuit, based on fully loaded housings

.084" Terminals

Split Pin (Male)

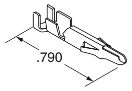

Socket (Female)

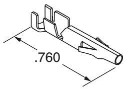

Description	Wire Size AWG Tin Plated	Insulation Dia. (Inch)		Digi-Key Part No.	Pricing				Molex Part No.
		Min.	Max.		10	100	500	1,000	
Male Crimp	14 ~ 20	.060	.130	WM1270-ND	.66	5.31	22.13	35.40	02-08-2004
Female Crimp	14 ~ 20	.060	.130	WM1271-ND	1.13	4.99	19.32	33.81	02-08-1002
Female Crimp	14 ~ 20	.060	.130	WM1271TR-ND‡	144.00/4,000				02-08-1001
Tools									
Extraction Tool (14 ~ 20AWG)				WM9921-ND	27.00/1				11-01-0168
Manual Wire Stripper (Molex)				WM9969-ND	63.00/1				63817-0000
Crimp Tool for .084 Contacts				WM9009-ND	203.49/1				63811-6800
Hand Crimp Tool				WM17553-ND✔	100.80/1				64016-0204

‡ Tape and Reel ✔ ***NEW!***

Kit

WM8429-ND (76650-0157) **.084" MLX Power Connector Kit**; (Panel Mount Plug and Receptacle)............... **$14.61**

.093" Diameter Connectors

Features:

• UL File Number E-29179; CSA File Number LR-19980 • Up to 12 amperes per circuit, (ratings are per circuit and based on fully loaded housings) • 250 Voltage rating for 03-09 series; 600 Voltage rating for 19-09 series • Friction lock for 03-09 series; Positive lock for 19-09 series

Plug

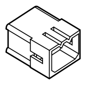

Receptacle

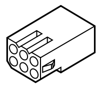

Header

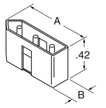

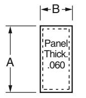

Panel Cutout

Receptacle

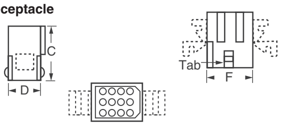

.198" x .198" Grid

Plug

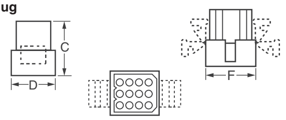

.198" x .198" Grid

Grid Patterns — *(Contacts sold separately)*

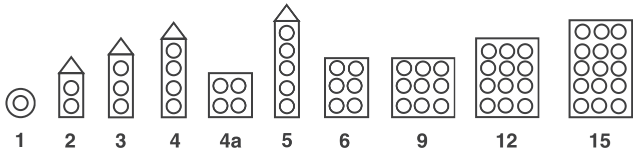

Grid Space	Grid No.	Type	Max. Amps/V		Dimensions (Inch)					Digi-Key Part No.	Pricing			Molex Part No.
					A	B	C	D	F		1	10	100	
Connector Housings with Detent Only, Free Hanging														
.198"	1	Plug	12	250	—	—	1.000	.358	—	WM1303-ND	.15	1.31	8.75	03-09-2011
		Recpt.	12	250	—	—	1.000	.234	—	WM1302-ND	.15	1.31	8.75	03-09-1011
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1325-ND	.38	3.33	22.23	03-09-2032
		Recpt.	12	250	.840	.312	1.015	.236	.670	WM1332-ND	.40	3.53	23.53	03-09-1032
	4	Plug	12	250	1.131	.375	1.000	.338	.971	WM1326-ND	.43	3.80	25.30	03-09-2042
		Recpt.	12	250	1.038	.312	1.000	.236	.868	WM1333-ND	.44	3.86	25.75	03-09-1042
	4a	Plug	12	250	.555	.695	1.024	.538	.538	WM1327-ND	.68	6.02	40.10	03-09-2049
		Recpt.	12	250	.500	.600	1.000	.434	.434	WM1334-ND	.66	5.82	38.80	03-09-1049
	5	Plug	12	250	—	—	.969	.350	1.170	WM1315-NDΔ	.69	6.10	40.68	03-09-2057
		Recpt.	12	250	—	—	1.000	.240	1.070	WM1314-NDΔ	.65	5.77	38.48	03-09-1057
		Recpt.	11	250	1.230	.310	1.105	.240	1.070	WM1592-ND	.57	5.01	33.38	03-09-1054
	6	Plug	9	250	.750	.695	1.000	.733	.536	WM1328-ND	.51	4.52	30.13	03-09-2062
		Recpt.	9	250	.718	.600	1.015	.632	.434	WM1335-ND	.51	4.52	30.13	03-09-1064
	9	Plug	9	250	.937	.660	.970	.730	.770	WM1329-ND	.83	5.18	29.78	03-09-2092
		Recpt.	9	250	.828	.725	1.015	.625	.666	WM1336-ND	.67	5.93	39.55	03-09-1094
	12	Plug	7.5	250	1.155	.760	1.000	.737	.770	WM1330-ND	.73	6.41	42.70	03-09-2121
		Recpt.	7.5	250	1.050	.655	1.015	.633	.871	WM1337-ND	.74	6.54	43.60	03-09-1126
		Recpt.	9.5	250	1.050	.725	1.020	.690	.870	WM1590-ND	.64	5.67	37.78	03-09-1121
.248"	2	Plug	12	250	.800	.375	1.000	.352	.639	WM1324-ND	.32	2.81	18.73	03-09-2022
		Recpt.	12	250	.725	.312	1.030	.250	.536	WM1331-ND	.30	2.61	17.43	03-09-1022
Connector Housings with Mounting Ears and Detent, Panel Mount														
.198"	3	Plug	12	250	.933	.375	.970	.340	.770	WM1307-ND	.46	4.08	27.23	03-09-2031
		Recpt.	12	250	.840	.312	1.015	.236	.670	WM1338-ND	.42	3.72	24.83	03-09-1081
	4	Plug	12	250	1.131	.375	.969	.338	.971	WM1309-ND	.46	4.06	27.05	03-09-2041
		Recpt.	12	250	1.038	.312	1.000	.236	.868	WM1308-ND	.44	3.86	25.75	03-09-1041
	4a	Plug	12	250	.555	.695	.969	.538	.538	WM1311-ND	.68	6.02	40.10	03-09-2040
		Recpt.	12	250	.500	.600	1.000	.434	.434	WM1310-ND	.66	5.82	38.80	03-09-1040
	6	Plug	9	250	.750	.695	.969	.733	.536	WM1317-ND	.54	4.79	31.93	03-09-2061
		Recpt.	9	250	.718	.600	1.015	.632	.434	WM1316-ND	.54	4.79	31.93	03-09-1061

§ Center spacing .248" (6.30mm) will accommodate: 14, 16 and 18AWG with 1/32" (.79mm) insulation – 16~18AWG (double crimp), each with 1/32" (.79mm) insulation Δ Has positive lock rather than detent lock.

† These Receptacles do not have mounting ears

(Continued)

.093" Diameter Connectors *(Cont.)*

Grid Space	Grid No.	Type	Max. Amps/V		Dimensions (Inch)					Digi-Key Part No.	Pricing			Molex Part No.
					A	B	C	D	F		1	10	100	
.198"	9	Plug	9	250	.937	.660	.970	.730	.770	WM1319-ND	.67	5.93	39.55	03-09-2091
		Recpt.	9	250	.828	.725	1.015	.625	.666	WM1318-ND	.67	5.93	39.55	03-09-1091
	12	Plug	7.5	250	1.155	.760	.969	.737	.975	WM1321-ND	.73	6.41	42.70	03-09-2122
		Recpt.	7.5	250	1.050	.665	1.015	.633	.871	WM1320-ND	.74	6.54	43.60	03-09-1125
	15	Plug	9.5	250	1.343	0.76	.980	.629	1.67	WM1339-ND	1.59	14.03	93.50	03-09-2159
		Recpt.	7.5	250	1.240	.655	1.015	.632	1.066	WM1322-ND	1.07	9.44	62.95	03-09-1154
		Recpt.	9.5	250	1.240	.655	1.015	.692	1.067	WM1591-ND	.93	8.19	54.58	03-09-1151
.248"	2§	Plug	12	250	.800	.375	.968	.352	.639	WM1305-ND	.32	2.81	18.73	03-09-2021
		Recpt.	12	250	.725	.312	1.000	.250	.536	WM1304-ND	.30	2.61	17.43	03-09-1027
.250"	6	Plug	9	600	1.048	.658	1.100	.640	.886	WM1505-ND	.91	8.03	53.50	19-09-2061
		Recpt.	9	600	.946	.608	1.140	.540	.790	WM1504-ND	.91	8.03	53.50	19-09-1061
	15	Plug	6	600	1.552	.910	1.100	.890	1.388	WM1511-ND	2.49	21.98	146.55	19-09-2153
		Recpt.	6	600	1.422	.850	1.140	.790	1.282	WM1510-ND	2.49	21.98	146.55	19-09-1151
Housing Positive Lock Panel Mount UL94V-2														
.264"	1	Plug	12	600	.485	.343	.320	.320	.320	WM1601-ND	.35	3.09	20.59	19-09-2018
		Recpt.	12	600	—	—	—	.300	.400	WM1600-ND†	.35	3.09	20.59	19-09-1019
	2	Plug	12	600	.800	.365	.635	.320	.580	WM1603-ND	.56	4.98	33.20	19-09-2028
		Recpt.	12	600	—	—	—	.300	.560	WM1602-ND†	.56	4.98	33.20	19-09-1029
	3	Plug	11	600	1.022	.365	.862	.320	.848	WM1605-ND	.50	4.45	29.68	19-09-2038
		Recpt.	11	600	—	—	—	.300	.830	WM1604-ND†	.53	4.65	31.03	19-09-1039
	4	Plug	9	600	1.270	.365	1.109	.321	1.110	WM1607-ND	1.44	12.74	84.90	19-09-2048
		Recpt.	9	600	—	—	—	.300	1.090	WM1606-ND†	.63	5.53	36.86	19-09-1049
	6	Plug	9	600	1.048	.658	.888	.604	.850	WM1609-ND	.73	6.45	43.00	19-09-2068
		Recpt.	9	600	—	—	—	.560	.830	WM1608-ND†	.68	6.00	40.03	19-09-1069
	9	Plug	9	600	1.048	.909	.883	.868	.850	WM1611-ND	.83	7.37	49.10	19-09-2098
		Recpt.	9	600	—	—	—	.560	.830	WM1610-ND†	.80	7.08	47.23	19-09-1099
	12	Plug	9	600	1.100	.910	1.140	.668	1.112	WM1613-ND	1.15	10.17	67.83	19-09-2128
		Recpt.	9	600	—	—	—	.830	.900	WM1612-ND†	.95	8.42	56.10	19-09-1129
	15	Plug	9	600	1.552	.910	1.392	.868	1.380	WM1615-ND	1.38	12.20	81.35	19-09-2158
		Recpt.	9	600	—	—	—	.868	1.380	WM1614-ND†	1.38	12.20	81.35	19-09-1159
Housing Positive Lock Panel Mount UL94V-0														
.264"	1	Plug	12	600	.485	.394	1.187	.250	.321	WM1678-ND	.43	3.83	25.53	19-09-2017
		Recpt.	12	600	—	—	1.177	.300	.300	WM1670-ND†	.43	3.83	25.53	19-09-1016
	2	Plug	12	600	.800	.365	1.19	.32	.59	WM1679-ND	.81	7.17	47.80	19-09-2027
		Recpt.	12	600	—	—	1.18	.30	.56	WM1671-ND†	.81	7.17	47.80	19-09-1026
	3	Plug	11	600	1.02	.394	1.187	.322	.850	WM1680-ND	.91	8.03	53.50	19-09-2037
		Recpt.	11	600	—	—	1.177	.300	.827	WM1672-ND†	.91	8.03	53.50	19-09-1036
	4	Plug	9	600	—	—	—	—	—	WM1681-ND	.96	8.51	56.70	19-09-2047
		Recpt.	9	600	—	—	1.177	.30	1.091	WM1673-ND†	.96	8.51	56.70	19-09-1046
	6	Plug	9	600	1.047	.681	1.187	.586	.850	WM1682-ND	1.12	9.85	65.65	19-09-2067
		Recpt.	9	600	—	—	1.177	.563	.827	WM1674-ND†	1.12	9.85	65.65	19-09-1066
	9	Plug	9	600	1.048	.909	1.19	.850	.850	WM1683-ND	1.18	10.40	69.30	19-09-2097
		Recpt.	9	600	—	—	1.18	.83	.83	WM1675-ND†	1.18	10.40	69.30	19-09-1096
	12	Plug	9	600	1.3	.91	1.19	.868	1.112	WM1684-ND	1.33	11.73	78.20	19-09-2127
		Recpt.	9	600	—	—	1.18	.83	1.09	WM1676-ND†	1.33	11.73	78.20	19-09-1126
	15	Plug	9	600	1.552	.91	1.19	.868	1.38	WM1685-ND	1.69	14.95	99.68	19-09-2157
		Recpt.	9	600	—	—	1.18	.83	1.35	WM1677-ND†	1.69	14.95	99.68	19-09-1156
Housing Positive Lock UL94V-2														
.264"	1	Plug	12	600	.485	.394	1.187	.250	.321	WM1686-ND	.30	2.67	17.83	19-09-2019
	2	Plug	12	600	.800	.365	1.19	.32	.59	WM1687-ND	.49	4.31	28.75	19-09-2029
	3	Plug	11	600	1.02	.394	1.187	.322	.850	WM1688-ND	.44	3.86	25.73	19-09-2039
	4	Plug	9	600	—	—	—	—	—	WM1689-ND	.56	4.98	33.20	19-09-2049
	6	Plug	9	600	1.047	.681	1.187	.586	.850	WM1690-ND	.63	5.59	37.28	19-09-2069
	9	Plug	9	600	1.048	.909	1.19	.850	.850	WM1691-ND	.72	6.38	42.53	19-09-2099
	12	Plug	9	600	1.3	.91	1.19	.868	1.112	WM1692-ND	.83	7.29	48.63	19-09-2129
	15	Plug	9	600	1.552	.91	1.19	.868	1.38	WM1693-ND	1.20	10.58	70.50	19-09-2159
Shrouded Male Pin Header														
.198"	3	Header	5	250	.770	.330	—	—	—	WM1625-ND	2.30	20.28	135.18	10-18-1032
	4	Header	5	250	.970	.330	—	—	—	WM1626-ND	2.63	23.22	154.83	10-18-1041
	6	Header	5	250	.740	.540	—	—	—	WM1627-ND	2.80	24.73	164.85	10-18-1061
	9	Header	5	250	.770	.730	—	—	—	WM1628-ND	3.63	32.05	213.68	10-18-1090
	12	Header	5	250	.980	.740	—	—	—	WM1629-ND	5.34	47.10	313.98	10-18-1120
.264"	2	Header	12	600	.587	.374	—	—	—	WM1041-ND	1.56	13.73	91.56	15-31-1026
	3	Header	11	600	.850	.374	—	—	—	WM1038-ND	1.72	15.20	101.30	15-31-1036
	4	Header	9	600	1.114	.374	—	—	—	WM1042-ND	1.92	16.95	112.98	15-31-1046
	6	Header	9	600	.850	.642	—	—	—	WM1039-ND	2.98	26.30	175.30	15-31-1066
	9	Header	9	600	.850	.901	—	—	—	WM1040-ND	6.37	56.18	374.50	15-31-1096

§ Center spacing .248" (6.30mm) will accommodate: 14, 16 and 18AWG with 1/32" (.79mm) insulation – 16~18AWG (double crimp), each with 1/32" (.79mm) insulation   Δ Has positive lock rather than detent lock.

† These Receptacles do not have mounting ears

.093" Terminals

Features: • Use with .093" housing • Temperature Range: 40°C ~ 105°C; .010" stock 70/30 brass • High Voltage Test: Withstands 1500 volts RMS for 60 seconds minimum applied between adjacent terminals • Current Rating: Amperage rating up to 12 amps on some sizes • Storage Temperature Range: -40°C ~ 125°C • Plating: 200-300μ Inch Hot-Tin Dip tin plating

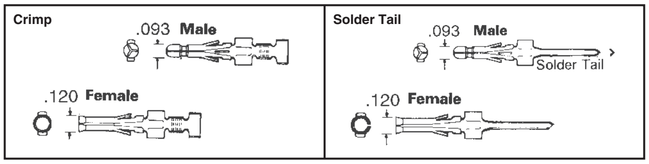
Crimp

Solder Tail

Description	Wire Size (AWG)	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing			Mfg. Part No.
				10	100	500	
Male, Crimp Type	14 ~ 20	.065 ~ .160	WM1100-ND◆	1.32	10.56	44.00	02-09-2103
	14 ~ 20	.065 ~ .160	WM1100CT-ND†◆	—	5.09	21.20	02-09-2101
	14 ~ 20	.065 ~ .160	WM1100TR-ND‡◆	238.00/7,000			02-09-2101
Male, Crimp Type	14 ~ 20	.065 ~ .160	WM2133-ND◆	10.33	82.65	344.38	02-09-6106
	14 ~ 20	.065 ~ .160	WM2134-ND◆	16.41	131.28	547.00	02-09-6110
Female, Crimp Type	14 ~ 20	.065 ~ .160	WM1101-ND◆	2.04	9.02	34.92	02-09-1104
	14 ~ 20	.065 ~ .160	WM1101CT-ND†◆	—	5.00	20.84	02-09-1102
	14 ~ 20	.065 ~ .160	WM1101TR-ND‡◆	231.00/7,000			02-09-1102
Male, Crimp Type	18 ~ 22	.060 ~ .120	WM1102-ND◆	2.16	9.55	36.96	02-09-2118
	18 ~ 22	.060 ~ .120	WM1102CT-ND†◆	—	6.84	27.79	02-09-2116
	18 ~ 22	.060 ~ .120	WM1102TR-ND‡◆	238.00/7,000			02-09-2116
Female, Crimp Type	18 ~ 22	.060 ~ .120	WM1103-ND◆	1.34	10.68	44.50	02-09-1119
	18 ~ 22	.060 ~ .120	WM1103CT-ND†◆	—	6.39	25.95	02-09-1117
	18 ~ 22	.060 ~ .120	WM1103TR-ND‡◆	224.00/7,000			02-09-1117
Male, Solder-Tail	—	—	WM1104-ND◆	1.71	13.68	57.00	02-09-2133
Male, Solder-Tail	—	—	WM1135-ND◆	1.58	12.60	52.50	02-09-2134
Female, Solder-Tail	—	—	WM1105-ND◆	1.72	13.74	57.25	02-09-1134
Male, Crimp Type	18 ~ 22	.060 ~ .120	WM1106-ND◊◆	10.80	86.37	359.88	02-09-6123
Female, Crimp Type	18 ~ 22	.060 ~ .120	WM1107-ND◊◆	10.80	86.37	359.88	02-09-5142
Female, Crimp Type	18 ~ 22	.060 ~ .120	WM1107TR-ND‡◆	3269.00/7,000			02-09-5143
Male, Crimp Type	24 ~ 30	.030 ~ .060	WM1108-ND◊◆	11.23	89.85	374.38	02-09-6145
Female, Crimp Type	24 ~ 30	.030 ~ .060	WM1109-ND◊◆	11.23	89.85	374.38	02-09-5147
Male, Solder-Tail	—	—	WM1110-ND◊	13.34	106.68	444.50	02-09-6132
Female, Solder-Tail	—	—	WM1111-ND◊◆	14.30	114.36	476.50	02-09-5132
Tools							
Hand Crimp Tool (Waldom)	14 ~ 26	—	WM9903-ND	15.31/1			W-HT-1919
Extraction Tool (Waldom)	18 ~ 30	—	WM1593-ND	20.95/1			W-HT-2054
Universal Crimp Tool	—	—	WM9999-ND	33.75/1			63811-1000
Extraction Tool	—	—	WM9930-ND	16.92/1			11-03-0006
Manual Wire Stripper	—	—	WM9969-ND	63.00/1			63817-0000
Hand Crimp Tool	14 ~ 20	—	WM9023-ND	269.33/1			63819-1100
Locator Assembly for 63819-1100	—	—	WM1199-ND◆✔	37.80/1			63819-1175
Hand Crimp Tool	16 ~ 24	—	WM9024-ND	269.33/1			63819-1200
Hand Crimp Tool	14 ~ 24	—	WM17553-ND✔	100.80/1			64016-0204
Insertion Tool	14 ~ 30	—	WM5116-ND◆✔	15.30/1			0011020003

◊ 15μ" Select Gold Finish   † Cut Tape   ‡ Tape and Reel   ◆ ***RoHS Compliant***   ✔ ***NEW!***

Cable Connector Designer Kit

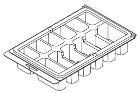

- Covers from single to 15 Circuit designs (250V and up to 12A/circuit).
- 90 complete connectors with .093" (2.36mm) diameter pin size.
- Crimping tool, pin terminal ejector and case included.

WM9982-ND◆ (76650-0011) **$52.80**

Kits

WM8368-ND◆ (76650-0061) **Standard .093" Power Connector Kit**;
(Free Hanging Plug and Receptacle, 1 Circuit) **$3.58**

WM8353-ND◆ (76650-0060) **Standard .093" Power Connector Kit**;
(Single Row Panel Mount Plug and Receptacle, 2 Circuit) **$4.19**

WM8354-ND◆ (76650-0059) **Standard .093" Power Connector Kit**;
(Single Row Panel Mount Plug and Receptacle, 4 Circuit) **$4.51**

WM8355-ND◆ (76650-0058) **Standard .093" Power Connector Kit**;
(Single Row Panel Mount Plug and Receptacle, 3 Circuit) **$5.71**

WM8374-ND◆ (76650-0072) **Standard .093" Power Connector Kit**;
(Single Row Panel Mount Plug and Receptacle, 5 Circuit) **$5.88**

WM8357-ND◆ (76650-0054) **Standard .093" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 6 Circuit) **$5.63**

WM8361-ND◆ (76650-0055) **Standard .093" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 9 Circuit) **$4.12**

WM8365-ND◆ (76650-0056) **Standard .093" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 12 Circuit) **$4.82**

WM8371-ND◆ (76650-0057) **Standard .093" Power Connector Kit**;
(Panel Mount Plug and Receptacle, 15 Circuit) **$6.75**

WM9801-ND◆ (76650-0018) **Standard .093" Power Connector Kit**;
(Panel Mount Plug and Receptacle, with Extraction Tool and Universal Crimp Tool) **$30.47**

◆ ***RoHS Compliant***

NEW! Projector Lamp Connectors

Molex® offers a small pitch version of the Projector Lamp Connector for portable DLP* Projector Markets. DLP* technology is a revolutionary display solution that uses an optical semiconductor to manipulate light digitally. It is a highly reliable, all-digital display chip that delivers high picture quality across a broad range of products. With this DLP* technology, due to its smaller physical size, the over size of projector is reduced. This makes the projector smaller and lighter thus making it more portable. Molex has developed a compact Lamp connector to support the interconnect solution for power-to-lamp transmission for the DLP* Projector. It comes in two different pitch sizes, 13.00mm (.512") and 5.40mm (.213"), catering both standard and portable projector size. It has the capability to intermate with competitor's versions of lamp connectors.

Features: • High temperature PPS housing • High dielectric withstanding voltage • Design with housing ears • Options of Insulation crimp on the wire • Able to operate at high temperature • Capable to handle a DC voltage of up to 20KV (peak) • Provision for screw mount or latch mount to withstand vibration • Options of either dielectric strength • Compliant to UL, TUV, CSA and SGS standards

* DLP is a trademark of Texas Instruments Incorporated

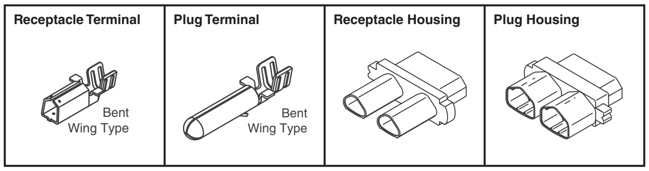
Receptacle Terminal

Plug Terminal

Receptacle Housing

Plug Housing

Description	Digi-Key Part No.	Pricing			Tape and Reel‡		Molex Part No.
		1	10	50	Qty.	Pricing	
Receptacle Terminal, Bent Wing Type	WM1395CT-ND†	.51	3.97	16.80	6,000	165.00/M	0780362001
Receptacle Terminal, Straight Wing Type	WM1396CT-ND†	.49	3.44	13.26	6,000	121.00/M	0780362005
Plug Terminal, Bent Wing Type	WM1394CT-ND†	.56	4.33	18.30	2,000	200.00/M	0780372001
Receptacle Housing, 5.40mm (.213")	WM1393-ND	.68	4.78	18.45	—	—	0781961001
Receptacle Housing, 13.00mm (.512")	WM1392-ND	2.31	19.16	79.84	—	—	0781651001
Plug Housing, 5.40mm (.213")	WM1391-ND	1.26	9.76	41.35	—	—	0781971001
Plug Housing, 13.00mm (.512")	WM1390-ND	2.31	19.16	79.84	—	—	0781661001

† Cut Tape   ‡ For Tape and Reel part number, change CT-ND to TR-ND.

SOLARLOK Connector System

SOLARLOK delivers a flexible system solution for easy and reliable interconnections from photovoltaic modules to the DC/AC converter. The entire system concept is based on cost effective and reliable processing of individual interconnection system components. This significantly reduces installation costs of solar energy systems. Mating safety is provided by polarity keyed housings, fully shrouded contacts, reliable high cycle life and squeeze to release connection system. In addition, a wide temperature range and fulfillm ent of worldwide standards for photovoltaic connection systems complement the robust product specification. SolKlip™ ground clips are designed for solar panel grounding applications using solid uninsulated copper 10AWG and 12AWG. This UV resistant cable can be used in photovoltaic applications including: wire jumpers between solar panels, solar roof tiles and between panels and the AC/DC inverters.

Solar Panel Installation Identification Labels:
Tyco Electronics introduces label solutions for Solar Panel Installation per the National Electric Code (NEC) specification. Labels are manufactured using ultraviolet (UV) resistant ink, permanent acrylic adhesive and base material designed to withstand environmental elements. A laminate is added to further add protection against prolonged UV exposure.

Photovoltaic Connectors

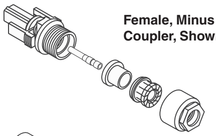

Female, Minus Coupler, Shown

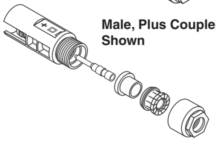

Male, Plus Coupler, Shown

T-Branch Connector

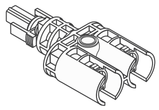

Receptacle for Inverted Converter

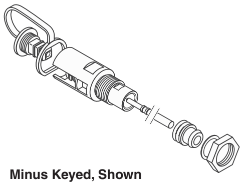

Minus Keyed, Shown

SOLARLOK Module Box Assembly

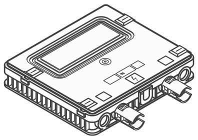

SOLARLOK Module Box Assembly with Cables

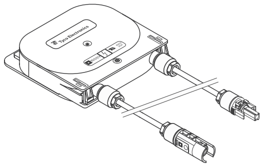

SOLARLOK Connectors, SolKlip™ and Modules

Description	Digi-Key Part No.	Price Each			Tyco Part No.
		1	25	50	
Photovoltaic Connector, Male, Plus Coupler, 12AWG	A98822-ND	2.85	2.64	2.31	7-1394461-0
Photovoltaic Connector, Male, Minus Coupler, 12AWG	A98823-ND	2.85	2.64	2.31	7-1394461-1
Photovoltaic Connector, Male, Unkeyed, 12AWG	A98824-ND	2.85	2.64	2.31	7-1394461-2
Photovoltaic Connector, Male, Unkeyed, 10AWG	A100202-ND ***NEW!***	2.85	2.64	2.31	7-1394461-5
Photovoltaic Connector, Male, Plus Coupler, 10AWG	A98825-ND	2.85	2.64	2.31	7-1394461-3
Photovoltaic Connector, Male, Minus Coupler, 10AWG	A98826-ND	2.85	2.64	2.31	7-1394461-4
Photovoltaic Connector, Female, Plus Coupler, 12AWG	A98827-ND	2.85	2.64	2.31	4-1394462-8
Photovoltaic Connector, Female, Minus Coupler, 12AWG	A98828-ND	2.85	2.64	2.31	4-1394462-9
Photovoltaic Connector, Female, Plus Coupler, 10AWG	A98829-ND	2.85	2.64	2.31	6-1394462-3
Photovoltaic Connector, Female, Minus Coupler, 10AWG	A99561-ND	2.85	2.64	2.31	6-1394462-4
SOLARLOK Safety Collar	A100198-ND ***NEW!***	.39	.37	.32	2106207-1
T-Branch Connector, Male to Male, Plus Keyed	A98830-ND	8.67	8.04	7.03	1534611-1
T-Branch Connector, Male to Male, Minus Keyed	A98831-ND	8.67	8.04	7.03	1534611-2
T-Branch Connector, Female to Male, Plus Keyed	A98832-ND	10.41	9.66	8.44	1740277-1
T-Branch Connector, Female to Male, Minus Keyed	A98833-ND	10.41	9.66	8.44	1740277-2
Receptacle for Inverted Converter, Male, Plus Keyed, 12AWG	A98834-ND	2.85	2.64	2.31	1394738-3
Receptacle for Inverted Converter, Male, Minus Keyed, 12AWG	A98835-ND	2.85	2.64	2.31	1394738-4
Solar Grounding Clip Assembly, 10 ~ 12AWG	A97546-ND	2.60	2.42	2.11	1954381-1
Solid Wire Grounding Assembly, 6 ~ 8AWG	A100161-ND ***NEW!***	5.97	5.53	4.84	2058729-1
SOLARLOK Module Box Assembly, 150mm x 150mm x 25mm	A98821-ND	73.80	68.40	59.76	2-1394723-4
SOLARLOK Module Box Assembly, 135mm x 115mm x 22.5mm	A99646-ND	31.18	28.90	25.25	1740699-1
SOLARLOK Module Box with Cable Assembly, SL1010 Diodes	A99647-ND	41.00	38.00	33.20	1986175-1
SOLARLOK Module Box with Cable Assembly, SL1515 Diodes	A99648-ND	48.87	45.30	39.58	1986175-3

Solar Cables

Description	Digi-Key Part No.	Price Each			Tyco Part No.
		1	5	10	
Solar Cable, 10AWG, 100' length	A97543-100-ND	56.26	51.44	—	1986164-2
Solar Cable, 10AWG, 500' length	A97543-500-ND	257.19	225.05	—	1986164-2
Solar Cable, 10AWG, 1000' length	A97543-1000-ND	470.70	439.32	407.94	1986164-3
Solar Cable, 12AWG, 100' length	A97544-100-ND	36.86	33.70	—	1986165-2
Solar Cable, 12AWG, 500' length	A97544-500-ND	168.50	147.44	—	1986165-2
Solar Cable, 12AWG, 1500' length	A97544-1500-ND	472.12	440.65	409.17	1986165-3
Solar Cable, 14AWG, 100' length	A97545-100-ND	30.06	27.48	—	1986166-2
Solar Cable, 14AWG, 500' length	A97545-500-ND	137.40	120.23	—	1986166-2
Solar Cable, 14AWG, 2500' length	A97545-2500-ND	596.21	556.47	516.72	1986166-3

Crimp Tools

Description	Digi-Key Part No.	Price Each	Tyco Part No.
Hand Crimp Tool, 10 ~ 12AWG	A98836-ND	279.45	1-1579004-2
Extraction Tool	A98837-ND	88.50	1102855-3

Solar Panel Installation Identification Labels

Description	Digi-Key Part No.	Price Each			Tyco Part No.
		1	10	100	
2 Part, DC Disconnect Warning	DCD1000-ND	2.10	1.82	1.61	SOL-DCD-104100-4-0.5
Warning - Dual Power Source	DPS1000-ND	.75	.65	.58	SOL-DPS-104019-4-0.5
Warning - Electric Shock Hazard	ESH1000-ND	.75	.65	.58	SOL-ESH-104019-4-0.5
2-Part, Solar Disconnect Label	SD1000-ND	1.95	1.69	1.50	SOL-SD-104076-4-0.5

MicroCross™ Digital Visual Interface (DVI) Connector System

MicroCross DVI has been chosen by the DDWG as the standard digital interface for connecting a host device and display device to support high-resolution video applications. Supporting one or two digital channels driven by Transition Minimized Differential Signaling (TMDS) and/or a high bandwidth analog interface, the MicroCross was chosen for its size, performance and cost. The innovative contact design provide the industry with a video interface design which supports over 1.65Gb/s per differential pair (for a total 9.9Gb/s over a dual link implementation) and 2.5GHz support for the analog interface. This innovative approach addresses the problem of an industry in transition. By providing a single high performance interface, precious board I/O space is saved and lower system costs are achieved. The interface provides added benefits of a high cycle life interface for mobile applications and the improved EMI performance needed for high speed links. The EMI performance is achieved through the 360° shielding of the MicroCross DVI cable and connector design.

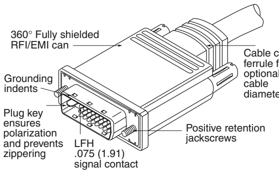
360° Fully shielded RFI/EMI can
Cable crimp ferrule for optional cable diameters
Grounding indents
Plug key ensures polarization and prevents zippering
LFH .075 (1.91) signal contact
Positive retention jackscrews

Dim. in mm

Fig. 1
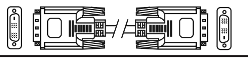

Fig. 2
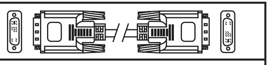

Fig. 3
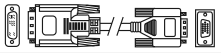

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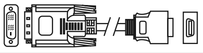

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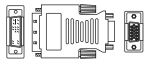

Fig. 6
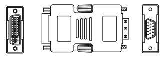

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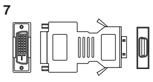

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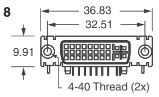

Fig. 9
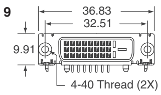

Fig. 10
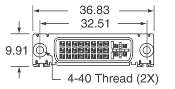

Fig. 11
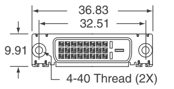

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	DVI-Digital to DVI-Digital, Single Link	WM18509-ND	21.70	19.90	18.09	88741-8000
2	DVI-Analog to DVI-Analog	WM18510-ND	42.54	39.00	35.45	88741-8200
3	DVI-Analog to VGA	WM18511-ND	34.73	31.84	28.94	88741-8300
4	DVI-Digital to DFP	WM18512-ND	46.30	42.45	38.59	88741-8600
5	DVI-Analog Plug to VGA Receptacle	WM18513-ND	10.94	10.03	9.12	88741-8700
6	DVI-I-Analog/Digital Receptacle to VGA Plug	WM18515-ND	21.99	20.17	18.33	88741-9100
7	DVI-Digital Receptacle to DFP Plug	WM18516-ND	25.75	23.61	21.47	88741-9300
8	DVI-I Right Angle Receptacle, Gold Flash	WM5600-ND	5.01	4.60	4.18	74320-1004
	DVI-D Right Angle Receptacle, with Forklock	WM6096-ND	5.25	4.82	4.38	74320-9010
	DVI-D Right Angle Receptacle, with Forklock	WM6097-ND	5.01	4.60	4.18	74320-9014
9	DVI-D Right Angle Receptacle, Gold Flash	WM5601-ND	4.76	4.37	3.98	74320-4004
	DVI-D Right Angle Receptacle, Gold	WM5718-ND	5.01	4.60	4.18	74320-4000
	DVI-D/ATX Right Angle Receptacle, with Forklock	WM6095-ND	4.76	4.37	3.98	74320-9004
10	DVI-I-Analog/Digital Receptacle, Gold	WM5714-ND	4.81	4.42	4.02	74320-3000
	DVI-I-Analog/Digital Receptacle, Gold Flash	WM5715-ND	4.57	4.19	3.81	74320-3004
11	DVI-D Digital Receptacle, Gold	WM5716-ND	4.62	4.24	3.85	74320-5000
	DVI-D Digital Receptacle, Gold Flash	WM5717-ND	4.38	4.02	3.65	74320-5004

Kit

WM8468-ND (76650-0143) **Deluxe Audio Data Application Kit**;
(Includes HDMI, HDMI to DVI-D, MicroCross DVI-D and DVI-I, DisplayPort®, IEEE1394-1395, USB Type A and B, USB OTG (On-the-Go) mini-B, Micro USB-B Product Families) **$46.09**

DisplayPort® Interconnect System

Dim. in mm

The DisplayPort is designed for internal and external system solution for high bandwidth audio and video data transfer in the notebook and PC market.

Cable Assembly Features: Physical: • Positions: 20 • Color-Resin: Black **Material:** • Metal: Brass • Plating Mating: Gold • Resin: High Temperature Thermoplastic • Wire Size AWG: 30 **Electrical:** • Current: 0.50A maximum • Impedance: 100Ω • Shielded • Voltage: 40V maximum **Connector Features: Physical:** • Positions: 20 • Operating Temperature Range: -20°C ~ 85°C **Material:** • Housing: High Temperature Thermal Plastic, Black, 30% Glass-filled, UL 94V-0 • Terminal and Shell: Copper Alloy **Plating:** • Terminal: Contact area 0.76µm, Gold plating and solder tail 1 ~ 3 µm, Tin Bismuth under plate 1 ~ 3µm, Nickel plating overall • Shell: 1.27 ~ 2.54µm solderable Nickel plating overall **Electrical:** • Current: 0.50A maximum • Shield Type: Full Shield • Voltage: 40VAC maximum

Fig. 1
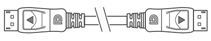

Fig. 2
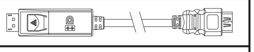

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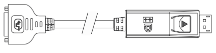

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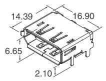

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel Pricing‡ 250	Molex Part No.
	Cable Assembly						
1	With Latch, 2M	WM19272-ND	33.92	31.10	28.27	—	68783-0007
	Without Latch, 2M	WM19273-ND	33.07	30.32	27.56	—	68783-0008
	With Latch, 3M	WM19298-ND	53.60	42.02	40.57	—	68783-0001
2	HDMI F to DisplayPort M, 5”	WM19294-ND§	39.05	35.80	32.55	—	74766-0005
	HDMI F to DisplayPort M, 10”	WM19296-ND	32.22	29.54	26.86	—	74766-8005
3	DVI-D F to DisplayPort M, 5”	WM19295-ND§	36.80	33.74	30.67	—	74766-0006
	DVI-D F to DisplayPort M, 10”	WM19297-ND	34.56	31.68	28.80	—	74766-8006
	Connector Receptacle						
4	Right Angle, SMT, 0.50mm	WM19271CT-ND†	4.22	3.67	3.31	692.00	47272-0001

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. § With Transient Voltage Suppression

High Definition Multimedia (HDMI) Interface Type C (Mini) Connector System

Dim. in mm

High Definition Multimedia Interface (HDMI) connectors and cable assemblies provide an uncompressed digital link between consumer electronics equipment such as DVD players, set-top boxes and audio/video monitors such as plasma display screens for high-definition televisions. HDMI is a small, user-friendly interconnect that provides up to 5 Gbps of bandwidth to support high-definition video plus multi-channel audio in a single cable.

HDMI Receptacle Features: • Optional mounting flange offers screw panel mounting and grounding • Dimples provide additional impedance control • Wide solder tabs for PCB hold-down • Grounding fingers provide mechanical and electrical stability.

Specifications: • **Circuits/Positions:** 19 • **Pitch/Center Spacing:** 0.50mm (.020 in.) • **Voltage:** 40V maximum • **Current:** 0.5A maximum

Fig. 1
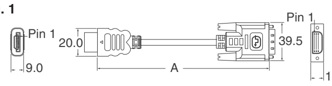

Fig. 2
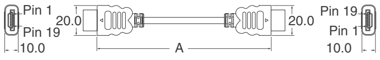

Fig. 3
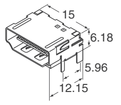

Fig. 4
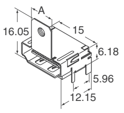

Cable Assembly Features: • Compact, user-friendly design meets consumer equipment needs • HDMI-DVI cables-DVI backward compatible • Mounting flange-protects solder joints; additional grounding • Signal layout-low impedance mismatch • Fully shielded-ESD protection

Specifications: • **Gender:** Male-to-Male • **Cable Length:** 1.0m (3.28 feet) • Shielded • **Wire Size:** 28AWG

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	Molex Part No.
1	HDMI to DVI-Digital Cable Assembly	1,000	WM19082-ND	14.76	13.53	12.30	—	—	88768-3500
		2,000	WM19090-ND	16.96	15.55	14.14	—	—	88768-3510
2	HDMI to HDMI Cable Assembly	1,000	WM19083-ND	13.40	12.29	11.17	—	—	88768-9800
		2,000	WM19091-ND	15.60	14.31	13.01	—	—	88768-9810
3	HDMI Receptacle, Right Angle, SMT	—	WM19084CT-ND†	5.83	5.35	4.87	500	1701.50	500254-1927
		—	WM19086CT-ND†	2.38	2.19	1.99	350	486.15	47151-0001
		—	WM19088CT-ND†	2.38	2.19	1.99	350	486.15	47151-1001
4	Panel Mount HDMI Receptacle, Right Angle with Screw Flange, SMT	7.5	WM19085-ND	5.83	5.35	4.87	—	—	500254-1931
		9.5	WM19087-ND	2.38	2.19	1.99	—	—	47151-0002
		9.5	WM19089-ND	2.38	2.19	1.99	—	—	47151-1002

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

NEW! High Definition Multimedia (HDMI) Interface Type D (Micro) Connector System

HDMI Receptacle: The HDMI Type D (Micro) connector is the industry's first miniaturized connector solution for delivering high definition video and images from mobile devices to flat panel screens. The connector is about half the size of the current Type C (Mini) HDMI connector on the market today.

Fig. 1
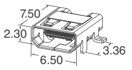

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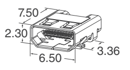

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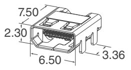

Fig. 4
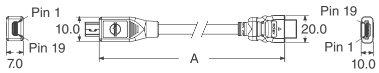

Features: • Satisfy HDMI 1.4 Specification mechanical and electrical requirements • Customers enjoy all features and benefits of the HDMI 1.4 Specification • .40mm (.016”) pitch dual-row receptacle • Half the size of the current Type-C (Mini) HDMI receptacle • 5,000 mating cycles for receptacles • Meets durability requirements for mobile applications • Full SMT, through hole shell tabs and hybrid SMT and through-hole shell tab versions • Offers multiple PCB mounting configurations and flexibility to suit customer applications and design requirements • Friction lock on receptacle shell offers excellent retention force and tactile feel when mating • Rear receptacle-shell-over-housing feature prevents damage to PCB receptacle from over-insertion of the cable plug • Receptacle terminal hold-down feature • Prevents terminal stubbing

Cable Assembly: HDMI Type-A connector and cable assemblies deliver the highest quality, high-definition content by providing an uncompressed digital connection from any audio/video source to an audio and/or video monitor over a single cable. Whether interfacing a set-top box, DVD player, or A/V receiver to a HDTV, the interconnect user is assured of the highest home-theater quality.

Features: • Compact and user-friendly design meets consumer equipment needs • 5 Gbps carries uncompressed audio and video in a single cable • HDMI to DVI cables DVI backward compatible • Mounting flange protects solder joints and provides additional grounding • Triad signal layout low impedance mismatch • Fully shielded connector EMI/RFI protection

Fig.	Description	Dim. A (Meters)	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	Molex Part No.
1	HDMI, Right Angle Receptacle, SMT, Hybrid Type Mount	—	WM1280CT-ND†	2.32	1.88	1.70	3,000	1056.00/M	467652001
2	HDMI, Right Angle Receptacle, SMT	—	WM1281CT-ND†	2.56	2.07	1.87	1,000	1296.00	467650001
3	HDMI, Right Angle Receptacle, SMT, Through Hole Shell Tabs	—	WM1282CT-ND†	2.56	2.07	1.87	1,000	1296.00	467651001
4	HDMI Type A to Type D Cable Assembly, 32AWG	2.0	WM1283-ND	19.08	17.65	15.84	—	—	687860003
	HDMI Type A to Type D Cable Assembly, 34AWG	1.5	WM1284-ND	10.80	9.99	8.97	—	—	687860002
	HDMI Type A to Type D Cable Assembly, 36AWG	1.5	WM1285-ND	13.00	12.03	10.79	—	—	687860006
	HDMI Type A Plug to Type D Receptacle Adapter Cable, 32AWG	0.2	WM1286-ND	9.89	9.03	7.74	—	—	687860007

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex Serial ATA Connectors

Dim. in mm

Fig. 1
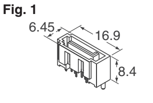

Fig. 2
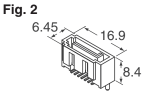

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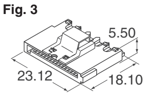

Fig. 4
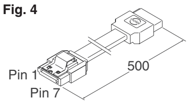

Fig. 5
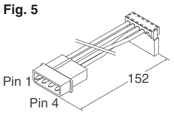

Fig. 6
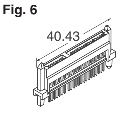

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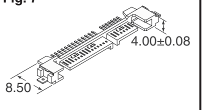

Fig. 8
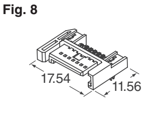

Fig. 9
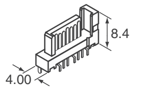

Fig. 10
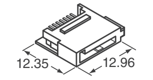

Fig. 11
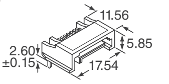

Fig.	No. of Pos.	Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	7	Through Hole	WM19103-ND	1.69	14.88	99.23	67800-8005
2	7	Header Vertical SMT	WM19104-ND	1.15	10.12	67.45	67800-5005
3	15	Plug Latching IDT	WM19024-ND	1.59	13.99	93.28	67926-0001
—	5	IDT Feed Through Cover	WM19025-ND	.28	2.50	16.68	67926-0041
	5	IDT Feed to Cover	WM19026-ND	.28	2.50	16.68	67926-0040
4	7	Cable Assembly	WM19027-ND	3.18	28.09	187.28	68561-0014
5	15	Cable Assembly	WM19028-ND	1.63	14.43	96.18	68561-0019
6	22	Backplane Receptacle	WM19105-ND	5.73	50.60	337.33	87678-1001
	22	Backplane Recpt. Low Profile	WM2071-ND	3.53	32.34	264.58	87779-1001
	22	Backplane Receptacle SMD	WM2070-ND	3.53	32.34	264.58	87713-1001
7	22	Plug Right Angle SMD	WM19111-ND	5.25	46.30	308.68	87703-0001
8	7	Header Right Angle SMD	WM19115-ND	1.06	9.37	62.45	67490-1220
9	7	Header Vertical PCB	WM19106-ND	1.15	10.12	67.45	67491-1032
	7	Header Vertical PCB	WM19148-ND	1.35	11.91	79.38	67491-0020
10	7	Cable Receptacle	WM19108-ND	1.06	9.37	62.45	67489-8005
11	7	Plug Right Angle with Shroud	WM19112CT-ND†	1.15	10.12	67.45	47080-4005
	7	Plug Right Angle with Shroud	WM19112TR-ND‡	179.36/380			47080-4005

† Cut Tape ‡ Tape and Reel

WM8490-ND (76650-0169) **Serial ATA Signal Connector Kit**; (Signal Vertical and Right Angle Header and Receptacle) **$16.87**

0.80mm (.031”) Pitch HandyLink™ I/O Interconnect System

Fig. 1
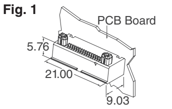

Fig. 2
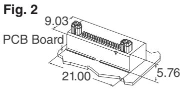

Fig. 3
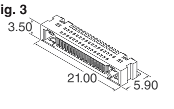

Fig. 4
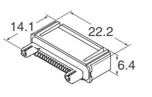

Fig. 5
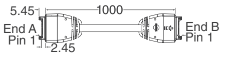

Fig. 6
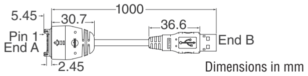

Molex’s 0.80mm (.031”) pitch HandyLink product family of connectors offers a perfect solution to any hand-held device design or application. The HandyLink family includes a right-angle SMT receptacle, PCB plug and perpendicular and parallel mounted cradle connectors for docking applications.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	50	100	Tape and Reel† Qty.	Pricing	Molex Part No.
1	Plug, 16 Pos., Right Angle, SMT Cradle	WM17129CT-ND‡	6.74	5.95	—	3.97	3.18	290	763.86	45560-0161
2	Plug, 16 Pos., Vertical, SMT Cradle	WM17128CT-ND‡	6.74	5.95	—	3.97	3.18	290	763.86	45560-0160
3	Receptacle, 16 Pos., Right Angle, SMT	WM17127CT-ND‡	4.77	4.21	—	2.81	2.25	1,000	1862.00	44828-1162
4	Plug, 16 Pos., Vertical, PCB Termination	WM17126-ND	6.75	5.96	—	3.98	3.18	—	—	45593-1600
5	Cable Assembly, 16 Pos., Male - Male	WM17124-ND	27.56	22.05	18.38	—	14.70	—	—	36697-0001
6	Cable Assembly, HandyLink to USB	WM17125-ND	12.99	10.39	8.66	—	6.93	—	—	36697-0021

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

WM8507-ND (76650-0190) **HandyLink Connector Kit**; (Cradle Connector, SMT Right Angle Receptacle, Wire and PCB Termination Plug, IP-54 Rating) **$18.30**

Technology to Inspire Innovation

JAE DA1 Series 0.6mm Connector

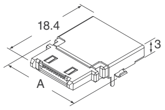

Low profile surface mount interface connector for use in compact and slim mobile information terminal devices such as PDAs, HPCs, and notebook PCs. **Specifications:** • Current: Signal: 0.5A, Power 1.0A • Dielectric Withstanding Voltage: 250VACr.m.s. per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 50mΩ maximum • Operating Temperature: -25°C ~ 75°C • Applicable Wire Size: AWG #28 maximum **Materials and Finishes:** • Insulator: Plus Nylon (UL 94V-0, Black) • Contact: Copper Alloy, Gold plating over Lead-Nickel • Lead Contact: Tin • Shell: Steel, Nickel Plating

Description	No.of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Cradle, Right Angle with Hold Down	10	16.2	670-1005-ND	4.08	2.38	2.18	DA1B010H91E

RL01 and RL01S Series
0.8mm Connectors

Fig. 1
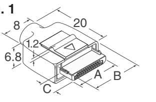

Fig. 2
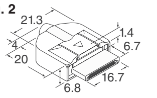

Specifications:
• Current Rating: 0.5A • Dielectric Withstanding Voltage: 250VAC r.m.s. per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 50mΩ maximum • Operating Temperature: -25°C ~ 75°C • Applicable PCB Thickness: 1.0mm • Applicable Wire Size: 25 ~ 30AWG (max.)

Materials and Finishes:
• Backshell: Stainless Steel • Contact: Copper Alloy; Connecting Area: Gold Plating over Palladium over Nickel; Terminal Area: Gold Flash PPS • Insulator: Glass-filled Nylon (UL 94V-0, Black) • Hood: Polycarbonate • Clamp Barrel: Copper Alloy Nickel Plated

Fig.	No. of Positions	Dimensions - mm A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
RL01 Series									
1	14	15.7	18.1	5	670-1101-ND	5.85	3.42	3.12	RL01-P14S-C5E
RL01S Series									
1	16	16.7	21.3	6.7	670-1107-ND	5.97	3.49	3.19	RL01S-P16S-C5E
2	16	—	—	—	670-1104-ND	6.15	3.49	3.28	RL01S-P16S-C36BE

DD1 and DD2 Series
0.5mm Connectors

Fig. 1
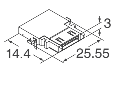

Fig. 2 ***NEW!***
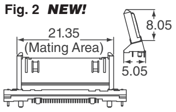

Fig. 3
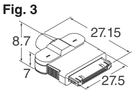

Fig. 4
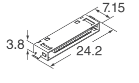

Fig. 5
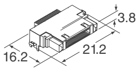

Fig. 6
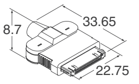

Fig. 7
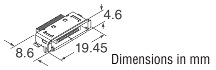

DD1 Series: **Specifications:** • Rated Current: Signal: 0.05A, Power: 1.0A • Rated Voltage: 30VAC r.m.s. • Dielectric Withstanding Voltage: 500VDC per minute • Insulation Resistance: 1000MΩ minimum (Initial) • Contact Resistance: 50mΩ maximum (Initial) • Operating Temperature: -25°C ~ 75°C **Materials and Finishes:** Contact: Copper Alloy/Contact: Gold plating over Nickel; Terminal: Gold flash plating over Nickel • Insulator: Glass filled nylon resin • Shell: Stainless steel/Tin plating over Nickel

DD2 Series: **Specifications:** • Rated Current: Signal: 0.05A, Power 1.0A • Rated Voltage: 30VAC r.m.s. • Dielectric Withstanding Voltage: 300VAC r.m.s. per minute • Insulation Resistance: 1000MΩ minimum (Initial) • Contact Resistance: 50mΩ maximum (Initial) • Operating Temperature: -25° ~ 75°C • Durability Mating Cycles: 10,000 times **Materials and Finishes:** • Contact: Copper Alloy/Contact: Gold plating over Nickel, Terminal: Tin plating over Nickel • Insulator: Glass filled nylon resin • Shell: Stainless Steel/Main frame: Nickel plating, Through-hole: Tin plating over Nickel

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	JAE Part No.
DD1 Series — 30 Positions								
1	Cradle	670-1020-1-ND	5.27	3.08	2.82	—	—	DD1B030HA1R500
2	Tilted Type Cradle	670-2101-ND† ***NEW!***	4.68	3.28	3.00	—	—	DD1B030VA1
3	Plug	670-1021-ND†	7.65	5.21	4.59	—	—	DD1P030MA1
4	Receptacle	670-1022-1-ND	4.85	2.83	2.59	1,300	2261.04/M	DD1R030HA1R1300
DD2 Series — 40 Positions								
5	Cradle	670-1023-1-ND	6.71	4.56	4.03	500	1877.47	DD2B040HA2R500
6	Plug	670-1024-ND†	12.40	8.44	7.44	—	—	DD2P040MA1
7	Receptacle	670-1025-1-ND	6.99	4.76	4.20	1,000	3720.08	DD2R040HP2R1000

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

AVX INTERCONNECT
A KYOCERA GROUP COMPANY

8383 Series High Temperature Box Headers

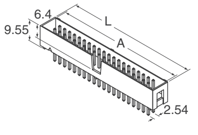

Features: • Molded from high temperature UL94V-0 nylon • .100” (2.54mm) spacing • Mates with all IDC socket connectors • 1A current rating • Operating Temperature Range: -55°C ~ 125°C

No. of Positions	Dimensions (mm) L	A	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
14	24.98	22.98	478-4879-ND	2.61	2.24	1.74	008383014000010
16	27.52	25.52	478-4880-ND	3.02	2.58	2.01	008383016000010
20	32.60	30.60	478-4881-ND	3.02	2.58	2.01	008383020000010
26	40.22	38.22	478-4882-ND	4.46	3.82	2.97	008383026000010
34	50.38	48.38	478-4883-ND	4.46	3.82	2.97	008383034000010
40	58.00	56.00	478-4884-ND	7.79	6.67	5.19	008383040000010

AVX INTERCONNECT
A KYOCERA GROUP COMPANY

9157 Series I/O Connectors

Dim. in mm

Fig. 1

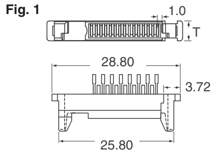

Fig. 2

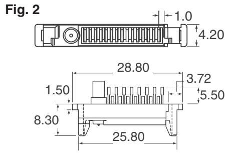

Fig. 3

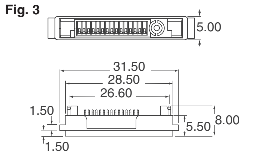

Fig. 4

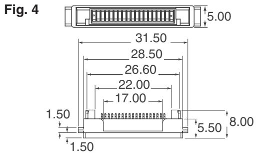

Fig. 5

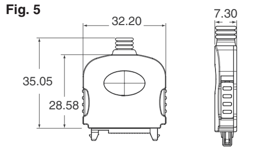

The 9157 series was specifically designed for portable equipment. AVX now offers this two-part system as a standard product. The fixed SMT socket is designed to be housed within the confined dimensional constraints of the portable device. The plug/cover connector has sprung contacts and is designed for termination to accessory equipment. There is an option to include a switching RF coax. **Features:** • Metal latching area integral to socket which saves PCB real estate • Single sprung plug contact design gives 10,000 mating cycles and cleaning/wiping action **Applications:** • Mobile phones • PDA • Medical • Docking/Charging for any portable device

Fig.	Description	Dim. T (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	AVX Part No.
1	Plug, 15 Position, without RF Connector	4.2	478-4506-ND†	5.27	4.51	3.51	109157015000006
	Plug, 19 Position, without RF Connector	3.0	478-4508-ND†	7.43	6.36	4.95	109157019000006
2	Plug, 15 Position, with RF Connector	—	478-4507-ND†	28.89	24.72	19.26	109157015001006
3	Socket, 15 Position, without RF Connector	—	478-4509-1-ND	4.10	3.51	2.73	209157015000006
	Socket, 15 Position, with RF Connector	—	478-4510-1-ND	5.90	5.05	3.93	209157015001006
4	Socket, 19 Position, without RF Connector	—	478-4511-1-ND	8.96	7.67	5.97	209157019000006
5	Cover Kit for 15 Position Plug, Screw/Press Fit, 3.5 Dia. Cable	—	478-4512-ND†	5.58	4.78	3.72	309157970000035

† Bulk

9257 Series I/O Connectors

Dim. in mm

AVX offers this plug and socket reduced size system as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device

Features: • No latching is required due to the click design of the contacts • Compact size to optimize PCB real estate • Positive alignment and orientation of the plug and socket • 5,000 mating cycles and 1A rated

Applications: • Cell Phones • Handheld Devices • Industrial Modules • Medical Electronics

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1	Plug, 16 Pos.	478-4513-ND†	4.01	3.43	2.67	—	—	—	109257016001003
2	Socket, 16 Pos.	478-4514-1-ND	5.72	4.89	3.81	478-4514-2-ND	1,100	2223.00/M	209257016001013
3	Plug, 12 Pos.	478-5482-5-ND‡	2.16	1.85	1.44	—	—	—	109257012101006
4	Socket, 12 Pos.	478-5479-1-ND	2.30	1.97	1.53	478-5479-2-ND	1,200	893.00/M	209257012101016

† Bulk ‡ Tube

Fig. 1

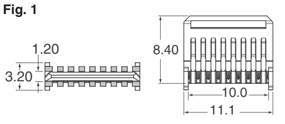

Fig. 2

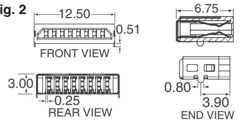

Fig. 3

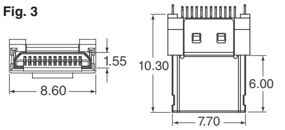

Fig. 4

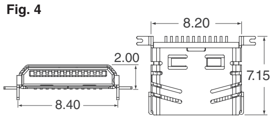

9175/9176/9177 Series Wire-to-Board Strip IDC Connectors

These series offer customers the ability of connecting individual wires to a single row of contacts using IDC technology. Available as a 1-3-pin connector, it is both low profile and has a small PCB footprint. The connector is SMT assembled to the PCB prior to assembly of the wire **Features:** • Small, single row IDC • For stranded wire (9175 series is for stranded or solid) • Insulators are end-to-end stackable for higher pin counts • Uses simple hand tool for higher volume applications **Applications:** • PCB-to-PCB individual wire interconnect • High volume and high speed assembly • Device to PCB interconnect

Dim. in mm

Fig. 1

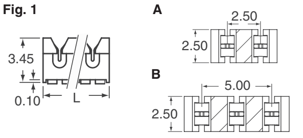

Fig. 2

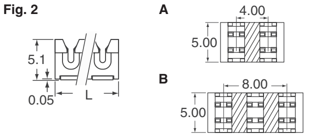

Fig. 3

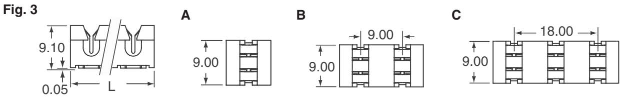

Fig. 4 ***NEW!***

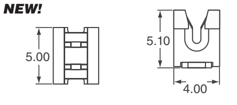

Fig. 5 ***NEW!***

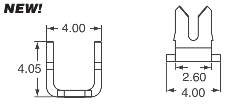

Fig.	No. of Pos.	Dim. L (mm)	Wire AWG	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel† Qty.	Pricing	AVX Part No.
1A	2	5.0	26	478-4515-1-ND	1.53	13.09	2,000	595.00/M	009175002001006
1B	3	7.5	28	478-4516-1-ND	1.71	14.63	2,000	665.00/M	009175003001006
2A	2	8.0	18	478-4613-1-ND	1.80	15.20	1,000	700.00	009176002001006
	2	8.0	20	478-4614-1-ND	1.85	15.58	1,000	718.00	009176002011006
	2	8.0	22	478-4615-1-ND	1.85	15.58	1,000	718.00	009176002022006
	2	8.0	24	478-4616-1-ND	1.85	15.58	1,000	718.00	009176002032006
2B	3	12.0	18	478-4617-1-ND	1.94	16.34	1,000	753.00	009176003001006
	3	12.0	20	478-4618-1-ND	1.94	16.34	1,000	753.00	009176003011006
	3	12.0	22	478-4619-1-ND	1.94	16.34	1,000	753.00	009176003022006
	3	12.0	24	478-4620-1-ND	1.94	16.34	1,000	753.00	009176003032006
3A	1	9.0	16	478-4898-1-ND	1.44	12.32	400	224.00	009177001012006
	1	9.0	18	478-4899-1-ND	1.44	12.32	400	224.00	009177001022006
	1	9.0	20	478-4900-1-ND	1.44	12.32	400	224.00	009177001033006
3B	2	18.0	14	478-4901-1-ND	2.03	17.33	400	315.20	009177002001006
	2	18.0	16	478-4902-1-ND	2.03	17.33	400	315.20	009177002012006
	2	18.0	18	478-4903-1-ND	2.03	17.33	400	315.20	009177002022006
	2	18.0	20	478-4904-1-ND	2.03	17.33	400	315.20	009177002033006

Fig.	No. of Pos.	Dim. L (mm)	Wire AWG	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel† Qty.	Pricing	AVX Part No.
3C	3	27.0	14	478-4905-1-ND	2.61	22.33	400	406.00	009177003001006
	3	27.0	16	478-4906-1-ND	2.61	22.33	400	406.00	009177003012006
	3	27.0	18	478-4907-1-ND	2.61	22.33	—	—	009177003022006
	3	27.0	20	478-4908-1-ND	2.61	22.33	—	—	009177003033006
4	1	—	18	478-6079-1-ND✔	.63	5.32	1,000	245.00	009176001001006
	1	—	18	478-6083-1-ND✔	.63	5.32	1,000	245.00	009176001001106
	1	—	20	478-6078-1-ND✔	.63	5.32	1,000	245.00	009176001011006
	1	—	20	478-6082-1-ND✔	.63	5.32	1,000	245.00	009176001011106
	1	—	22	478-6077-1-ND✔	.63	5.32	1,000	245.00	009176001022006
	1	—	22	478-6081-1-ND✔	.63	5.32	1,000	245.00	009176001022106
	1	—	22	478-6141-1-ND✔	.27	2.31	2,000	105.00/M	709176001422006
	1	—	24	478-6076-1-ND✔	.63	5.32	1,000	245.00	009176001032006
	1	—	24	478-6080-1-ND✔	.63	5.32	1,000	245.00	009176001032106
	1	—	24	478-6142-1-ND✔	.27	2.31	2,000	105.00/M	709176001432006
5	1	—	18	478-6088-1-ND✔	.27	2.28	1,000	105.00	709176001501006
	1	—	20	478-6089-1-ND✔	.27	2.28	1,000	105.00	709176001511006
	1	—	22	478-6090-1-ND✔	.27	2.28	1,000	105.00	709176001522006
	1	—	24	478-6091-1-ND✔	.27	2.28	1,000	105.00	709176001532006
Insertion Tool for 9177 Series 1 Position			4.25mm	478-4909-ND	1.17	—	—	—	069177701601001
			3.5mm	478-4910-ND	1.17	—	—	—	069177701602001
			2.75mm	478-4911-ND	1.17	—	—	—	069177701603001
Insertion Tool for 9177 Series 2 Position			4.25mm	478-4912-ND	1.62	—	—	—	069177701601002
			3.5mm	478-4913-ND	1.62	—	—	—	069177701602002
			2.75mm	478-4914-ND	1.62	—	—	—	069177701603002
Insertion Tool for 9177 Series 3 Position			4.25mm	478-4915-ND	2.03	—	—	—	069177701601003
			3.5mm	478-4916-ND	2.03	—	—	—	069177701602003
			2.75mm	478-4917-ND	2.03	—	—	—	069177701603003
Hand Tool for 9175 Series				478-4517-ND‡	7.61	—	—	—	069175700401000
Bit for 9175 Hand Tool for Med Prod.				478-5696-ND✔	9.38	—	—	—	069175701601000
Hand Tool for 9176 Series				478-4621-ND‡	28.22	—	—	—	067000773001000
2.1mm Bit for 9176 Hand Tool				478-4622-ND	9.38	—	—	—	069176701601000
1.6mm Bit for 9176 Hand Tool				478-4623-ND	9.38	—	—	—	069176701602000
Cap. 1 Pos., 1.0 ~ 1.5mm, Thru Wire, Black				478-6143-ND✔	.21	—	—	—	609176001415000
Cap. 1 Pos., 1.0 ~ 1.5mm, Thru Wire, White				478-6144-ND✔	.21	—	—	—	609176001415100
Cap. 1 Pos., 1.1 ~1.6mm, Thru Wire, Black				478-6084-ND✔	.21	—	—	—	609176001516000
Cap. 1 Pos., 1.1 ~1.6mm, Thru Wire, White				478-6086-ND✔	.21	—	—	—	609176001516100
Cap. 1 Pos., 1.6 ~ 2.1mm, Thru Wire, Black				478-6085-ND✔	.21	—	—	—	609176001521000
Cap. 1 Pos., 1.6 ~ 2.1mm, Thru Wire, White				478-6087-ND✔	.21	—	—	—	609176001521100
Cap. 2 Pos., 1.1 ~ 1.6mm, Thru Wire, Black				478-6092-ND✔	.41	—	—	—	609176002016000
Cap. 2 Pos., 1.6 ~ 2.1mm, Thru Wire, Black				478-6093-ND✔	.41	—	—	—	609176002021000
Cap. 3 Pos., 1.1 ~ 1.6mm, Thru Wire, Black				478-6094-ND✔	.51	—	—	—	609176003016000
Cap. 3 Pos., 1.6 ~ 2.1mm, Thru Wire, Black				478-6095-ND✔	.51	—	—	—	609176003021000
Cap. 2 Pos., 1.1 ~ 1.6mm, Wire Stop, Black				478-6096-ND✔	.41	—	—	—	609176002016099
Cap. 2 Pos., 1.6 ~ 2.1mm, Wire Stop, Black				478-6097-ND✔	.41	—	—	—	609176002021099
Cap. 3 Pos., 1.1 ~ 1.6mm, Wire Stop, Black				478-6098-ND✔	.51	—	—	—	609176003016099
Cap. 3 Pos., 1.6 ~ 2.1mm, Wire Stop, Black				478-6099-ND✔	.51	—	—	—	609176003021099

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bit Sold Separately

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

Miniature IO and Power Connectors

ST Series

Applications: • Hand-held terminals • PDA equipment • Notebook computers • Mobile communications equipment • Office automation equipment • Measuring instruments **Specifications:** • Rated Voltage: 100VAC • Rated Current: 0.5A • Operating Temperature: -30°C ~ 80°C • Insulation resistance 100MΩ @ 250VDC • Contact resistance: 60mΩ maximum **Materials:** • Insulator: Glass reinforced thermoplastic, black color, UL94V-0 • Contacts: Copper alloy, selective gold plating • Shell: Stainless steel, solder plated

Fig. 1

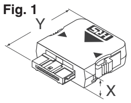

Fig. 2

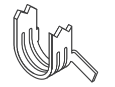

Fig. 3

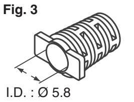

Fig. 4

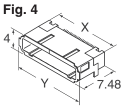

Fig. 5

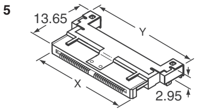

Fig. 6

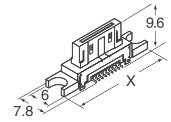

Fig. 7

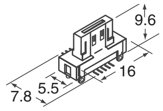

Fig.	Description	Pos.	Dim. (mm)		Digi-Key	Price Each					Tape and Reel◊		Hirose
			X	Y	Part No.	1	10	25	50	100	Qty.	Pricing	Part No.
1	Plug, Solder‡	10	7	25.5	H11360-ND	2.90	2.40	—	2.00	1.80	—	—	ST40-10S-CV(80)
	Plug, Shielded‡	10	7	25.5	H11466-ND	3.54	2.93	—	2.44	2.20	—	—	ST40X-10S-CV(80)
	Plug, Shielded‡	18	7	25.5	H11361-ND	5.02	4.16	—	3.46	3.12	—	—	ST40X-18S-CV(80)
	Plug, Shielded‡	24	7	25.5	H11362-ND	4.79	3.96	—	3.30	2.97	—	—	ST40X-24S-CV(80)
	Plug, Shielded§	24	9	25.6	H10354-ND	6.21	5.14	—	4.28	3.86	—	—	ST40X-24S-CV1(80)
	Plug, Solder, Shielded▲	26	11.4	35.7	H11462-ND	5.63	4.66	—	—	3.50	—	—	ST40X-36S-CV(80)
2	Cable Clamp for 6.8mm Cables	—	—	—	H11467-ND	.40	.28	—	.22	.19	—	—	ST40X-CM (6.8)
	Cable Clamp for 5.8mm Cables	—	—	—	H1952-ND	.65	.46	—	.36	.31	—	—	ST40X-CM(5.8)
	Cable Clamp for 4.0mm Cables	—	—	—	H10355-ND	.35	.22	—	.15	.13	—	—	ST40X-CM(4.0)
	Cable Clamp for 4-5mm Cables	—	—	—	H11518-ND	.57	.47	—	.38	.34	—	—	ST40X-CM(4.0-5.0)
	Cable Clamp for 6.8mm Cables	—	—	—	H11519-ND	.65	.46	—	.36	.31	—	—	ST40X-CM1(6.8)
3	Cable Bushing 5.8mm	—	—	—	H1953-ND	.84	.69	—	.55	.50	—	—	ST40X-BS(5.8)
	Cable Bushing 6.8mm	—	—	—	H11517-ND	.84	.69	—	.55	.50	—	—	ST40X-BS1(6.8)
	Cable Bushing 4.0mm	—	—	—	H11516-ND	.57	.47	—	.38	.34	—	—	ST40X-BS(4.0)
4	Receptacle, R/A SMD	10	10.5	11.5	H1958CT-ND†	1.76	—	1.35	—	1.08	1,500	718.00/M	ST60-10P
	Receptacle, R/A SMD	18	14.5	15.5	H11363CT-ND†	2.08	—	1.60	—	1.28	1,500	851.00/M	ST60-18P(50)
	Receptacle, R/A SMD	24	17.5	18.5	H11364CT-ND†	2.70	—	2.08	—	1.66	1,500	1104.00/M	ST60-24P(50)
	Receptacle, R/A SMD	36	25	26	H11463CT-ND†	2.90	—	2.25	—	1.80	1,500	1300.00/M	ST60-36P
5	Plug, R/A Cradle	18	13.78	17	H11465CT-ND†	3.89	—	3.02	—	2.42	900	1603.80	ST60X-18S
	Plug, R/A Cradle	36	24.25	27.5	H11464CT-ND†	4.58	—	3.56	—	2.85	900	1890.90	ST60X-36S
6	Plug, Vert., Cradle, SMD	18	27.6	—	H11365CT-ND†	4.44	—	3.45	—	2.76	400	887.60	ST80X-18S(50)
	Plug, Vert., Cradle, SMD	24	29.9	—	H10356CT-ND†	4.29	—	3.33	—	2.67	400	858.40	ST80X-24S(50)
7	Plug, Vert., Cradle, SMD	10	—	—	H1957CT-ND†	3.07	—	2.39	—	1.91	400	614.80	ST80X-10S

† Cut Tape ‡ Use with 4mm Max. Dia. Cables § Use with 5.8mm Max. Dia. Cables ▲ Use with 7mm Max. Dia. Cables ◊ For Tape and Reel part number, change CT-ND to TR-ND

LX Series

Applications: • Digital cameras (DSC) • PDA • Mobile phones • Low-profile electronics devices **Specifications:** • Rated Voltage: 50VAC • Rated Current: 0.5A • Operating Temperature: -40°C ~ 70°C • Insulation resistance: 1000MΩ @ 100VDC • Contact resistance: 70mΩ maximum @ 100mA DC • Withstanding Voltage: No flashover or insulation breakdown @ 250VAC/one minute **Plug Materials:** • Insulator and Covers: Synthetic resin, black color, UL94V-0 • Contacts: Copper Alloy, selective Gold plating • Metal shield: Stainless Steel • Strain relief clamp: Copper Alloy • Self tapping screws: Steel, Trivalent black chromate **Receptacle Materials:** • Insulator: Synthetic resin, black color, UL94V-0 • Contacts: Copper Alloy, selective Gold plating • Shell: Stainless Steel, solder plated

Fig.	No. of Contacts	Dim. (mm)		Digi-Key	Price Each					T & R Pricing	Hirose
		A	L	Part No.	1	10	25	50	100	2,000◊	Part No.
1	12	8	14.8	H11399-ND	4.50	3.72	—	3.10	2.79	—	LX40-12P
	16	8	16.8	H11400-ND	4.90	4.06	—	3.38	3.05	—	LX40-16P
	20	8.4	18.8	H11401-ND	5.37	4.44	—	3.70	3.33	—	LX40-20P
Cable Bushing, 4.0mm		—	—	H11676-ND‡	.59	.48	—	.39	.35	—	LX40-12BS(4.0)
Cable Bushing, 4.5mm		—	—	H11677-ND‡	.59	.48	—	.39	.35	—	LX40-16BS(4.5)
Cable Bushing, 5.0mm		—	—	H11678-ND‡	.59	.48	—	.39	.35	—	LX40-20BS(5.0)
2	12	6.5	10.6	H11402CT-ND†	2.37	—	1.83	—	1.46	931.00/M	LX60-12S
	16	6.5	12.6	H11403CT-ND†	2.54	—	1.95	—	1.56	995.00/M	LX60-16S
	20	6.5	14.6	H11404CT-ND†	2.67	—	2.05	—	1.64	1046.00/M	LX60-20S

† Cut Tape ◊ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bushing Diameter: (4.0) = 4.0mm, (4.5) = 4.5mm, (5.0) = 5.0mm

Fig. 1 — Plug

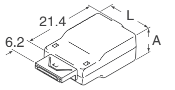

Fig. 2 — Receptacle

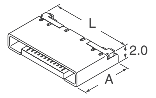

MQ212 Series

Applications: • Mobile phone • PDA • MP3 Player • Portable Audio Equipment and others

Features: • Conforms to EIAJ RC-5240 mobile phone rectangular connector • 5.6mm of depth helps reduction of PCB mounting area • Integral molding structure of receptacle prevents the damage from wrenching and scooping

Specifications: • Rated Current: 0.3A • Contact mating area: Gold • Number of positions: 10 • Contact spacing: 0.5mm • Operating Temperature: -40°C ~ 85°C • PCB Mount Type: SMT • Termination style: Soldering

Fig. 1

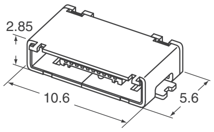

Bottom Mount Style

Fig. 2

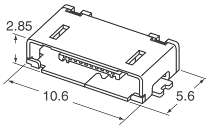

Top Mount Style

Fig. 3

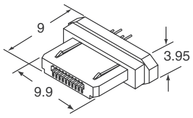

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each					Digi-Key Part No.	Tape and Reel Pricing 1,500	Hirose Part No.
			1	10	25	50	100			
1	Receptacle, Right Angle SMT with Positioning Post	H11456CT-ND	1.22	—	.88	—	.72	H11456TR-ND	426.00/M	MQ212-10PRT
2	Receptacle, R/A Through Hole Shell with Positioning Post	H11455CT-ND	1.22	—	.88	—	.72	H11455TR-ND	426.00/M	MQ212-10P
	Receptacle, Right Angle SMT with Positioning Post	H11457CT-ND	1.22	—	.88	—	.72	H11457TR-ND	426.00/M	MQ212-10PT
3	Plug Connector, Right Angle	H11458-ND†	1.60	1.31	—	1.05	.95	—	—	MQ212-10S

† Bulk

3200 Series SMT

Applications: • Portable personal computers • Electronic notebooks • Various OA equipment • Portable mobile communication equipment **Specifications:** • Rated Current: 500mA • Rated Voltage: AC125V • Insulation Voltage: 250MΩ or more at DC100V • Withstanding Voltage: At AC300V rms for 1 minute **Materials:** ***Receptacle:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Stainless steel, Solder-plated ***Plug:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Copper alloy, Solder-plated • Cover: Synthetic resin, Black

Fig. 1 — Receptacle

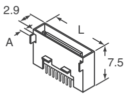

Fig. 2 — Plug

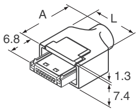

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key	Price Each			Hirose
		A	L	Part No.	1	10	50	Part No.
1	8	0.5	12.6	H11349-ND	3.10	2.57	2.14	3260-8S1(55)
	8	1.0	12.6	H11350-ND	4.44	3.68	3.06	3260-8S2(55)
	8	1.5	12.6	H11351-ND	3.10	2.57	2.14	3260-8S3(55)
	10	0.5	14.2	H11346-ND	4.55	3.77	3.14	3260-10S1(55)
	10	1.0	14.2	H11347-ND	4.55	3.77	3.14	3260-10S2(55)
	10	1.5	14.2	H11348-ND	3.28	2.72	2.26	3260-10S3(55)
	12	1.5	14.2	H11461-ND	3.09	2.57	2.14	3260B-12S3(56)
2	8	18	15.1	H11345-ND	4.81	3.99	3.32	3240-8P-C(50)
	10	21	16.7	H11343-ND	3.28	2.72	2.26	3240-10P-C(50)
	12	21	16.7	H11344-ND	5.51	4.56	3.80	3240-12P-TO-C(50)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

3500 Series SMT

Applications:
Hand-held terminals, PDA equipment, notebook computers, mobile communications equipment, office automation equipment, measuring instruments.
Specifications: Rated Voltage: 125VAC. Rated Current: 1A. Operating Temperature: -40°C ~ 85°C. Insulation Resistance: 1,000MΩ or greater/250VDC. Withstand Voltage: 350VAC for 1 minute. Contact Resistance: 40mΩ or less. Insertion/Removal Life: 20,000 times.
Materials: • ***Receptacles:*** Insulation: Synthetic resin, Black UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel, Solder plating. • ***Plug:*** Insulation: Synthetic resin, Black color UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel. Lock Spring: Stainless steel. Cover: Synthetic resin, Black.

Fig.	No. of Contacts	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	10	20.8	H11354-ND	6.32	5.24	4.36	3560-10S(50)
	16	25.6	H11357-ND	6.92	5.86	4.93	3560-16S(50)
2	10	20.8	H11355-ND	6.24	5.16	4.30	3560-10SR(50)
	16	25.6	H11358-ND	6.92	5.86	4.93	3560-16SR(50)
	16	25.6	H11359-ND	6.97	5.90	4.96	3560-16SR1(50)
3	16	—	H11356-ND	7.46	6.32	5.31	3560-16P-PG(50)
4	10	ø5.3	H11352-ND	8.63	7.50	6.75	3540-10P-CV(50)
	16	ø6.2	H11353-ND	12.66	11.72	10.51	3540-16P-CV(50)

Fig. 1 — Forward Receptacle

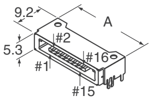

Fig. 2 — Reverse Receptacle

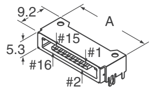

Fig. 3 — SMT Plug

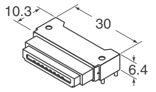

Fig. 4 — Plug

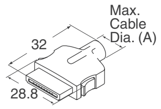

MQ172 Series Micro-Miniature Interface Connectors for Power Supply/Signaling

Features: Ultra Miniature/Low Profile Design. Dimensions: 3.9mm (H) x 6.4mm (W) x 6mm (D) for the 3 contact type, this series is ideal for today's miniature, lightweight electronic products.

Applications: Portable remote terminals, portable telephones, PHS (personal handy phone system), Notebook PCs, Electronic measuring instruments

Ratings: Rated Current: 3A (4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.) Temperature Range: -30°C ~ 75°C. Rated Volt: DC 30V or less AC 40V or less

Fig. 1

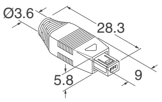

Fig. 2

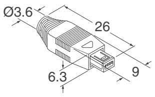

Fig. 3

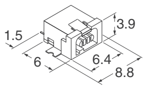

Fig. 4

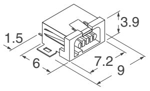

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	3	Plug, Unshielded	H10485-ND	2.83	2.35	1.96	1.74	MQ172-3SA-CV(50)
2	4	Plug, Shielded	H10486-ND	2.99	2.48	2.06	1.86	MQ172X-4SA-CV(50)
3	3	Receptacle, Unshielded, Loose	H10487-ND	3.10	2.57	2.14	1.93	MQ172-3PA(55)

Fig.	No. of Contacts	Digi-Key Part No.	Loose Piece Price Each 100	Hirose Part No.	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Hirose Part No.
					Shielded — Receptacle						
4	4	H10488-ND	2.09	MQ172X-4PA(55)	H10488CT-ND	2.88	2.40	2.16	H10488TR-ND	1560.00	MQ172X-4PA(66)

RP34 Series Compact Plastic Connector for AC Adapter

A compact, lightweight, 3-pole plastic connector specially designed for the AC adapter interface for notebook type personal computers. Plug is available in either straight type or right-angle type. Receptacle is very compact with a 10mm square mating surface and 11.3mm depth. **Features:** • Snap-lock locking and D-shaped mating section for easy insertion and disconnection • One of the three poles is designed for grounding terminal • Snap-fit assembling method for plug eliminates use of screws • External appearance is simplified cubical shape and fits well to any equipment. **Materials:** • Main Frame and Insulator: Polycarbonate resin containing glass, and PBT resin UL94V-0, black • Male Terminal: Brass with silver plating • Female Terminal: Phosphor bronze with silver plating

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	Plug with Socket, Straight	HR1286-ND†	4.58	3.80	2.85	RP34-8SP-3SC(71)
4	Plug with Socket, Straight	HR1287-ND†	2.83	2.35	1.74	RP34-8SP-4SC(71)
3	Plug with Socket, Right Angle	HR1285-ND†	4.58	3.80	2.85	RP34-8P-3SC(71)
3	Receptacle with Pin, PC Mount	HR173-ND	2.28	1.89	1.40	RP34-8R-3PDL
4	Receptacle with Pin, PC Mount	HR174-ND	2.34	1.95	1.44	RP34-8R-4PDL
—	Conn. Term Female, 18-22AWG, Tin	HR175-ND	.72	.59	.43	RP34-SC-112
—	Hand Crimp Tool for RP34 Contact	H9956-ND	1235.00	—	—	RP34-1/CR-HT
—	Hand Crimp Tool for RP34 Ferrule	H9945-ND	363.09	—	—	RP34-TC-01

† Contact not included and must be ordered separately (Digi-Key Part No. HR175-ND)

Straight Plug

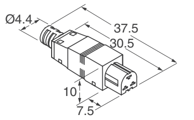

Right Angle Plug

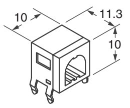

Receptacle

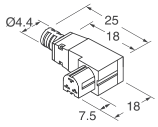

RP34L Series Connectors for Low Profile Power Supply

Features: Low profile: These receptacles are designed with their installation heights to be shorter than those of conventional RP34 series, such as 6.1mm (for 2-core type) and 5mm (for 3-core type)
Applications: Notebook PCs, portable remote terminals, AV equipment

Fig. 1

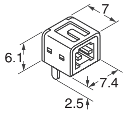

Fig. 2

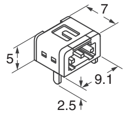

Fig. 3

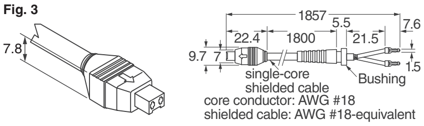

Fig. 4

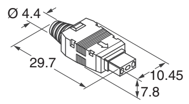

Fig. 5

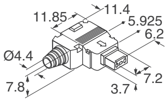

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	2	Receptacle, Dip-Solder Male Terminal	HR1289-ND◆	3.07	2.39	1.91	RP34L-5R-2PD(71)
2	3	Receptacle, Dip-Solder Male Terminal	HR1290-ND◆	3.07	2.39	1.91	RP34L-5R-3PD(71)
3	2	Cable-Integrated Forming Straight Plug to pig-tail	HR1288-ND◆	13.19	12.31	11.43	RP34L-5PA-2SC(1857)(71)
4	3	Straight Plug	HR1292-ND†◆	3.65	2.84	2.27	RP34L-5PA-3SC(71)
5	3	Right Angle Plug	HR1291-ND†◆	3.65	2.84	2.27	RP34L-5LP-3SC(71)
—	—	Crimp Terminal - AWG 18-22	H2353CT-ND§	.42	.25	.20	RP34L-SC1-212(01)
—	—	Crimp Terminal - AWG 18-22	H2353TR-ND‡		848.00/8,000		RP34L-SC1-212(01)
—	—	Hand Crimp Tool	H9946-ND	1352.00	—	—	HT-102/RP34L-SC1-212

† Order Crimp terminals separately § Cut Tape ‡ Tape and Reel ◆ *RoHS Compliant*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

Connectors – QR/P Series

RoHS COMPLIANT

Features: • The selective plating unisex contact is used for both plug and receptacle housings. • Two pairs of contacts at both ends are sequenced for power circuits. They are longer than the others. The molding material is UL94V-0 glass-reinforced polyester. • The guide pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The connectors have passed UL, CSA and TUV standards.
Applications: • PPC, Data Communications, Vending machines, Instrument, Automatic equipment, etc. **Specifications:** • **Operating Temperature Range:** -10°C ~ 60°C • **Contact Resistance:** 10Ω or less at DC1A • **Insulation Resistance:** 5000MΩ or less at DC 500V • **Withstand Voltage** (1 minute): *Power:* AC 3000V; *Signal*: AC 1000V • **Current Rating:** *Power*: 13A maximum (AWG #14 use) *Signal*: 7A maximum (AWG #14 use) • **Voltage Rating:** *Power*: AC600V *Signal*: AC250V **Material:** • Insulator: PBT (UL94V-0), blue • Contact: Phosphor bronze, selective gold over nickel plating

Fig. 1 — Receptacle Housing

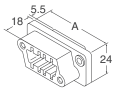

Fig. 2 — Plug Housing

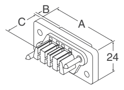

Fig.	No. of Circuits	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	52	—	—	H10140-ND	5.97	4.95	4.12	QR/P-8S-C(51)
	12	61	—	—	H10141-ND	6.41	5.31	4.42	QR/P-12S-C(51)
	16	70	—	—	H10142-ND	6.50	5.50	4.63	QR/P-16S-C(51)
2	4	41	5	18.5	H3246-ND	5.34	4.42	3.68	QR/P-4P-C(01)
	8	52	5	18.5	H3248-ND	5.54	4.59	3.82	QR/P-8P-C(01)
	12	61	5	18.5	H3240-ND	5.97	4.95	4.12	QR/P-12P-C(01)

AWG	Digi-Key Part No.	Loose Piece Pricing 1	10	Hirose Part No.	Cut Tape* Pricing 10	50	Tape and Reel† Qty.	Pricing	Hirose Part No.
				Unisex Crimp Contacts					
14 ~ 16	H3250-ND	1.33	10.82	QR/P-XC-111(12)	—	—	—	—	QR/P-XC-211(12)
18 ~ 24	H3251-ND	1.33	10.82	QR/P-XC-121(12)	10.94	44.13	5,000	332.00/M	QR/P-XC-221(12)

* For Cut Tape, add CT to the Digi-Key Part No. (H3251CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H3251TR-ND)

Description	Digi-Key Part No.	Price Each	Hirose Part No.
	Tools		
Hand Crimp Tool, 14-16AWG	H9913-ND	781.30	TC-2100-111
Hand Crimp Tool, 18-24AWG	H9914-ND	781.30	TC-2100-121
Extraction Tool	H9915-ND	13.12	TC-2100-21

Connectors – QR/P1 Series

Fig. 1 — Plug Housing

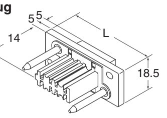

Fig. 2 — Socket Housing

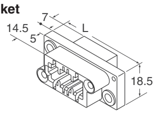

QR/P1 series connectors are small and compact high density versions of original OR/P series. Available in 8, 12, 16, 24 and 32 way. Crimps terminals assure positive and reliable termination with minimum labor. **Features:** • The coupling mechanism assures stable and reliable contact pressure through point and blade contact, in addition to smooth coupling that is sufficiently capable of dealing with variations in the coupling length specific to the plug-in connection • One opposed pair (in 12 contacts), 2 pairs (in 8, 16, and 24 contacts), and 3 pairs (in 32 contacts) can be used as power supply contacts. They are spaced further apart than the others so as to have enough creeping distance to withstand a high voltage. Fire-retardant insulation materials (UL94-0) are used. • The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The mount of a receptacle housing is done through floating bushes. Thus, they may help to give more smooth coupling of connectors by self-adjusting function. **Specifications:** • **Operating Temperature Range:** -10°C ~ 60°C • **Voltage:** *Power Terminal*: AC 250V; *Signal Terminal:* AC 125V • **Current:** *Power Unit*: 13A maximum (AWG 14 use); *Signal Unit*: 3A • **Withstand Voltage:** *Power Terminal*: AC 1000V; *Signal Terminal*: AC 500V • **Insulation Resistance:** 5000MΩ higher at DC 500V • **Contact Resistance:** *Power Unit*: 10mΩ or less at DC1A; *Signal Unit*: 15mΩ or less at DC1A • **Material:** *Insulator*: Polyethylene terephthalate, black; *Terminal*: Phosphor bronze, selective gold plating with nickel under plating

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
2	24	68.8	H10080-ND	6.87	5.69	4.74	QR/P1-24S-C(01)
			RoHS Compliant				
1	8	46.4	H10151-ND	5.34	4.42	3.68	QR/P1-8P-C(51)
	16	57.6	H10147-ND	6.18	5.12	4.26	QR/P1-16P-C(51)
	24	68.8	H10149-ND	6.82	5.64	4.70	QR/P1-24P-C(51)
2	8	46.4	H10152-ND	5.77	4.78	3.98	QR/P1-8S-C(51)
	12	51	H10146-ND	6.53	5.40	4.50	QR/P1-12S-C(51)
	16	57.6	H10148-ND	7.05	5.84	4.86	QR/P1-16S-C(51)

Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
	Contacts — RoHS Compliant				
14-16AWG, Male	H10086-ND	—	1.05	.85	QR/P1-PC1B-121(12)
14-16AWG, Female	H10090-ND	—	1.01	.82	QR/P1-SC1B-121(12)
18-24AWG, Male	H10085-ND	—	.75	.60	QR/P1-PC1A-111(12)
18-24AWG, Female	H10089-ND	—	.71	.57	QR/P1-SC1A-111(12)
20-24AWG, Male	H10088-ND	—	.75	.60	QR/P1-PC2B-121(12)
20-24AWG, Female	H10092-ND	—	.73	.59	QR/P1-SC2B-121(12)
24-28AWG, Male	H10087-ND	—	.53	.43	QR/P1-PC2A-111(12)
24-28AWG, Female	H10091-ND	—	.52	.42	QR/P1-SC2A-111(12)
	Tools				
Hand Crimp Tool for H10086-ND	H10123-ND	781.30	—	—	TC-QR/P1-PC1B
Hand Crimp Tool for H10085-ND	H10122-ND	752.70	—	—	TC-QR/P1-PC1A
Hand Crimp Tool for H10090-ND	H10127-ND	781.30	—	—	TC-QR/P1-SC1B
Hand Crimp Tool for H10089-ND	H10126-ND	752.70	—	—	TC-QR/P1-SC1A
Hand Crimp Tool for H10088-ND	H10125-ND	781.30	—	—	TC-QR/P1-PC2B
Hand Crimp Tool for H10087-ND	H10124-ND	595.84	—	—	TC-QR/P1-PC2A
Hand Crimp Tool for H10092-ND	H10129-ND	781.30	—	—	TC-QR/P1-SC2B
Hand Crimp Tool for H10091-ND	H10128-ND	595.84	—	—	TC-QR/P1-SC2A

Connectors – QR/P4 and P6 Series

RoHS COMPLIANT

QR/P4 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Available in 8, 12, 16, 24, 32 and 40 contacts. Wires are connected to the connectors without solder for easier connection and higher reliability. QR/P6 series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection. Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination. **Features:** • Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and allows for the deviations in contact length specific to plug-in connection • Miniaturized by separating power contacts from signal contacts • Miniaturized using guide pins integral with the insulator • The connectors of the series have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switch boards **QR/P4 Specifications:** • **Operating Temperature:** -10°C ~ 60°C • **Rated Voltage:** *Power:* AC 300V; *Signal:* AC 250V • **Rated Current:** *Power:* 3A; *Signal:* 1A • **Withstand Voltage:** *Power:* AC 2000V; *Signal:* AC 500V • **Insulation Resistance**: Minimum 5000MΩ at DC 500V • **Contact Resistance**: *Power*: Maximum 15mΩ at DC1A; *Signal:* maximum 15mΩ at DC1A • **Material:** *Insulator:* PBT resin (UL94V-0), Black; *Contact:* Phosphor bronze, Selective gold plated over nickel **QR/P6 Specifications:** • **Operating Temperature:** -10°C ~ 60°C • **Rated Voltage:** AC 120V • **Rated Current:** *Power Terminal:* 10A; *Signal Terminal:* 1A • **Withstand Voltage** (for 1 minute): *Power Unit:* AC 1000V; *Signal Unit:* AC 500V • **Insulation Resistance:** 5000MΩ or less at DC 500V • **Contact Resistance:** *Power Terminal:* 15mΩ or less at DC1A: *Signal Terminal:* 15mΩ or less at DC1A • **Materials:** *Insulator:* PBT resin (UL94V-0), Black; *Terminal:* Phosphor bronze, selective gold plating with nickel under plating

Fig. 1 - QR/P4 Male Housing use with QR/P1 Male Contacts

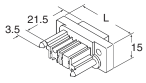

Fig. 2 - QR/P4 Female Housing use with QR/P1 Female Contacts

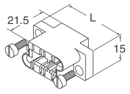

Fig. 3 - QR/P6 Male Housing use with QR/P1 Male Contacts

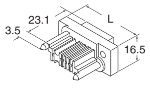

Fig. 4 - QR/P6 Female Housing use with QR/P1 Female Contacts

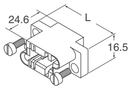

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
			QR/P4 Series				
1	16	44.84	H10095-ND	5.60	4.64	3.86	QR/P4-16P-C(01)
	24	55	H10097-ND	6.06	5.02	4.18	QR/P4-24P-C(01)
	32	67.7	H10099-ND	6.53	5.40	4.50	QR/P4-32P-C(01)
	40	77.86	H10101-ND	6.53	5.53	4.65	QR/P4-40P-C(01)
2	12	39.8	H10094-ND	4.90	4.06	3.38	QR/P4-12S-C(01)
	24	55	H10098-ND	6.99	5.79	4.82	QR/P4-24S-C(01)
	32	67.7	H10100-ND	6.68	5.66	4.76	QR/P4-32S-C(01)
	40	77.86	H10102-ND	7.41	6.27	5.28	QR/P4-40S-C(01)
			QR/P6 Series				
3	6	32.67	H10111-ND	3.02	2.50	2.08	QR/P6-6P-C(01)
	24	56.71	H10109-ND	3.86	3.20	2.66	QR/P6-24P-C(01)
4	6	32.67	H10112-ND	3.71	3.08	2.56	QR/P6-6S-C(01)
	24	56.71	H10110-ND	4.84	4.01	3.34	QR/P6-24S-C(01)
			Tools				
Extraction Tool for QR/P4 Series			H10130-ND	10.81	—	—	TC-QR/P4-21
Extraction Tool for QR/P6 Series			H10299-ND	38.22	—	—	TC-QR/P6-21

Connectors – QR/P8 Series

RoHS COMPLIANT

QR/P8 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Electrodes available are 8, 12 and 20. Wires are connected to the connectors without solder for easier connection and higher reliability. **Features:** • The connector of this series is about 20% smaller in length than that of the QR/P4 series with the same number of electrodes • Wires of AWG 20-28 can be connected with the two pairs of terminals on the two sides, while wires of AWG 24-28 can be connected with the terminals for signals • The pins give stable contact pressure because of their point contact with the receptacle blades, and have a larger allowance for the variation of connection length • The connectors have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switchboards **Specifications:** • **Operating Temperature:** -10°C ~ 60°C • **Withstand Voltage** (for 1 minute): *Power Supply*: AC 2000V; *Signal Unit*: AC 500V • **Insulation Resistance:** 1000MΩ or less at DC 500V • **Contact Resistance:** 30mΩ or less at DC1A • **Material:** *Insulator:* Polycarbonate resin UL94V-0, Black; *Contact:* Phosphor bronze, selective gold plated over nickel

Fig. 1 - Male Housing

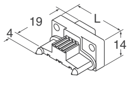

Fig. 2 - Female Housing

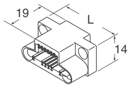

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	27	H10116-ND	3.15	2.62	2.19	QR/P8-8P-C(01)
	12	31	H10002-ND	3.25	2.69	2.24	QR/P8-12P-C(01)
	20	39	H10114-ND	3.89	3.22	2.68	QR/P8-20P-C(01)
2	8	27	H10117-ND	3.28	2.72	2.26	QR/P8-8S-C(01)
	12	31	H10113-ND	3.71	3.08	2.56	QR/P8-12S-C(01)
	20	39	H10115-ND	4.35	3.60	3.00	QR/P8-20S-C(01)
			Contacts				
20-24AWG, Male			H10118-ND	—	.36	.28	QR/P8-PC-111
20-24AWG, Female			H11697-ND ***NEW!***	.58	.41	.32	QR/P8-SC-111(12)
24-28AWG, Male			H10003-ND	—	.37	.29	QR/P8-PC-121
24-28AWG, Female			H11698-ND ***NEW!***	.58	.41	.32	QR/P8-SC-121(12)
			Tools				
Hand Crimp Tool, 20-24AWG			HR1170-ND	781.30	—	—	TC-QR/P8-111
Hand Crimp Tool, 24-28AWG			HR1171-ND	781.30	—	—	TC-QR/P8-121
Extraction Tool			HR1172-ND	10.92	—	—	TC-QR/P8-21

AMP VAL-U-LOK Connectors

Description: • Low cost, wire-to-wire and wire-to-board connectors with 4.2mm centerline
Features: • Easy mate and unmate with positive latch design • UL 94V-2 • Products are lead free • Intermateable and interchangeable with Molex Mini-Fit, Jr. and intermateable AMP-DUAC connectors
Ratings: • **Voltage Rating:** 600VAC • **Current Rating:** 9 Amps Max. in 2-position applications • **Dielectric Withstanding Voltage:** 1500VAC minimum • Component recognized by UL and Certified by CSA • UL File No. E28476 and CSA File No. 208567

Fig. 1

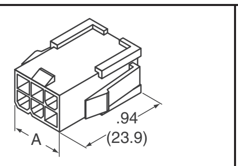

Fig. 2

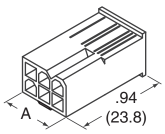

Fig. 3

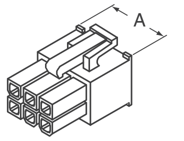

Fig. 4

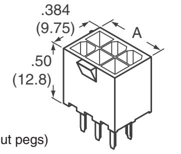

(shown without pegs)

Fig. 5

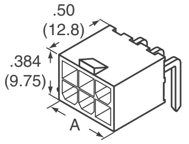

Fig. 6

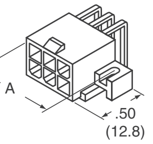

(Dim. A is measured from center to center of screw hole)

Fig.	No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	100	500	AMP Part No.
Housing							
Plugs - Panel Mount							
1	2	.21 (5.4)	A30578-ND	.20	7.39	32.60	794953-2
	3	.54 (13.8)	A99263-ND§	.31	11.87	52.37	1586101-3
	4	.38 (9.6)	A30579-ND	.20	8.13	35.86	794953-4
	5	.87 (22.2)	A99258-ND§	.40	15.25	67.30	1586022-5
	6	.54 (13.8)	A30580-ND	.20	8.94	39.44	794953-6
	8	.71 (18.0)	A30581-ND	.20	9.83	43.38	794953-8
	10	.87 (22.2)	A30582-ND	.21	10.82	47.72	1-794953-0
	12	1.04 (26.4)	A30583-ND	.21	11.90	52.49	1-794953-2
	14	1.21 (30.6)	A30584-ND	.20	13.09	57.74	1-794953-4
	16	1.37 (34.8)	A30585-ND	.22	14.40	63.51	1-794953-6
	18	1.54 (39.0)	A30586-ND	.25	15.84	69.86	1-794953-8
	20	1.70 (43.2)	A30587-ND	.27	17.42	76.85	2-794953-0
	22	1.87 (47.4)	A30588-ND	.30	19.16	84.53	2-794953-2
	24	2.03 (51.6)	A30589-ND	.33	21.08	92.99	2-794953-4
Plugs - Free Hanging							
2	2	.21 (5.4)	A30654-ND	.20	7.39	32.60	1586000-2
	3	.54 (13.8)	A99264-ND§	.31	11.87	52.37	1586103-3
	4	.38 (9.6)	A30655-ND	.20	8.13	35.86	1586000-4
	4	.71 (18.0)	A99259-ND§	.34	12.74	56.21	1586024-4
	5	.87 (22.2)	A99260-ND§	.42	15.87	70.01	1586024-5
	6	.54 (13.8)	A30656-ND	.20	8.94	39.44	1586000-6
	8	.71 (18.0)	A30657-ND	.20	9.83	43.38	1586000-8
	10	.87 (22.2)	A30658-ND	.21	10.82	47.72	1-1586000-0
	12	1.04 (26.4)	A30659-ND	.21	11.90	52.49	1-1586000-2
	14	1.21 (30.6)	A30660-ND	.20	13.09	57.74	1-1586000-4
	16	1.37 (34.8)	A30661-ND	.22	14.40	63.51	1-1586000-6
	18	1.54 (39.0)	A30662-ND	.25	15.84	69.86	1-1586000-8
	20	1.70 (43.2)	A30663-ND	.27	17.42	76.85	2-1586000-0
	22	1.87 (47.4)	A30664-ND	.30	19.16	84.53	2-1586000-2
	24	2.03 (51.6)	A30665-ND	.33	21.08	92.99	2-1586000-4
Receptacles - Free Hanging							
3	2	.23 (5.8)	A30590-ND	.20	7.39	32.60	794954-2
	3	.54 (13.8)	A99265-ND§	.33	12.28	54.20	1586105-3
	4	.39 (10.0)	A30591-ND	.20	8.13	35.86	794954-4
	4	.71 (18.0)	A99261-ND§	.34	12.97	57.20	1586026-4
	5	.87 (22.2)	A99262-ND§	.36	13.64	60.17	1586026-5
	6	.56 (14.2)	A30592-ND	.20	8.94	39.44	794954-6
	8	.72 (18.4)	A30593-ND	.20	9.83	43.38	794954-8
	10	.89 (22.6)	A30594-ND	.21	10.82	47.72	1-794954-0
	12	1.06 (26.8)	A30595-ND	.21	11.90	52.49	1-794954-2
	14	1.22 (31.0)	A30596-ND	.20	13.09	57.74	1-794954-4
	16	1.39 (35.2)	A30597-ND	.22	14.40	63.51	1-794954-6
	18	1.55 (39.4)	A30598-ND	.25	15.84	69.86	1-794954-8
	20	1.72 (43.6)	A30599-ND	.27	17.42	76.85	2-794954-0
	22	1.88 (47.8)	A30600-ND	.30	19.16	84.53	2-794954-2
	24	2.05 (52.0)	A30601-ND	.33	21.08	92.99	2-794954-4
Pin Header							
Vertical With Pegs							
4	2	.21 (5.4)	A30668-ND	.37	31.10	124.41	1586039-2
	4	.38 (9.6)	A30669-ND	.40	33.08	132.32	1586039-4
	6	.54 (13.8)	A30670-ND	.41	34.31	137.25	1586039-6
	8	.71 (18.0)	A30671-ND	.55	45.52	182.07	1586039-8
	10	.87 (22.2)	A30672-ND	.61	50.48	201.93	1-1586039-0
	12	1.04 (26.4)	A30673-ND	.79	66.21	264.82	1-1586039-2
	14	1.21 (30.6)	A30674-ND	.85	71.17	284.69	1-1586039-4
	16	1.37 (34.8)	A30675-ND	.91	76.14	304.55	1-1586039-6
	18	1.54 (39.0)	A30676-ND	.96	80.28	321.10	1-1586039-8
	20	1.70 (43.2)	A30677-ND	1.07	89.38	357.51	2-1586039-0
	22	1.87 (47.4)	A30678-ND	1.13	94.34	377.37	2-1586039-2
	24	2.03 (51.6)	A30679-ND	1.20	100.14	400.55	2-1586039-4
Vertical Without Pegs							
4	2	.21 (5.4)	A30602-ND	.43	35.94	143.76	1586037-2
	4	.38 (9.6)	A30603-ND	.49	40.95	163.80	1586037-4
	6	.54 (13.8)	A30604-ND	.51	42.78	171.12	1586037-6
	8	.71 (18.0)	A30605-ND	.62	52.02	208.08	1586037-8
	10	.87 (22.2)	A30606-ND	.69	57.70	230.78	1-1586037-0
	12	1.04 (26.4)	A30607-ND	.91	75.67	302.66	1-1586037-2
	14	1.21 (30.6)	A30608-ND	.98	81.34	325.36	1-1586037-4
	16	1.37 (34.8)	A30609-ND	1.04	87.01	348.05	1-1586037-6
	18	1.54 (39.0)	A30610-ND	1.10	91.74	366.97	1-1586037-8
	20	1.70 (43.2)	A30611-ND	1.23	102.15	408.59	2-1586037-0
	22	1.87 (47.4)	A30612-ND	1.29	107.82	431.28	2-1586037-2
	24	2.03 (51.6)	A30613-ND	1.37	114.44	457.76	2-1586037-4
Right Angle Without Pegs							
5	2	.21 (5.4)	A30614-ND	.60	49.66	198.62	1586041-2
	4	.38 (9.6)	A30615-ND	.66	54.62	218.48	1586041-4
	6	.54 (13.8)	A30616-ND	.72	60.41	241.65	1586041-6
	8	.71 (18.0)	A30617-ND	.79	66.21	264.82	1586041-8
	10	.87 (22.2)	A30618-ND	.85	71.17	284.69	1-1586041-0
	12	1.04 (26.4)	A30619-ND	1.06	88.55	354.20	1-1586041-2
	14	1.21 (30.6)	A30620-ND	1.13	94.34	377.37	1-1586041-4
	16	1.37 (34.8)	A30621-ND	1.20	100.14	400.55	1-1586041-6
	18	1.54 (39.0)	A30622-ND	1.26	105.10	420.41	1-1586041-8
	20	1.70 (43.2)	A30623-ND	1.38	115.03	460.12	2-1586041-0
	22	1.87 (47.4)	A30624-ND	1.45	120.83	483.31	2-1586041-2
	24	2.03 (51.6)	A30625-ND	1.53	127.45	509.79	2-1586041-4
Right Angle With Flange							
6	2	.35 (9.0)	A30626-ND	.59	49.11	196.43	1586043-2
	4	.52 (13.2)	A30627-ND	.60	49.70	198.80	1586043-4
	6	.69 (17.4)	A30628-ND	.61	50.79	203.14	1586043-6
	8	.85 (21.6)	A30629-ND	.96	80.39	321.57	1586043-8
	10	1.02 (25.8)	A30630-ND	1.04	86.42	345.69	1-1586043-0
	12	1.18 (30.0)	A30631-ND	1.29	107.53	430.10	1-1586043-2
	14	1.35 (34.2)	A30632-ND	1.37	114.56	458.24	1-1586043-4
	16	1.51 (38.4)	A30633-ND	1.40	116.92	467.67	1-1586043-6
	18	1.68 (42.6)	A30634-ND	1.41	117.81	471.23	1-1586043-8
	20	1.84 (46.8)	A30635-ND	1.42	118.20	472.78	2-1586043-0
	22	2.01 (51.0)	A30636-ND	1.76	146.72	586.86	2-1586043-2
	24	2.17 (55.2)	A30637-ND	1.86	154.76	619.03	2-1586043-4

§ Single Row

Wire Size (AWG)	Material and Finish	Digi-Key Part No.	Loose Piece Pricing 1	100	500	AMP Part No.
Contacts						
Plug Contacts						
26 - 22	Brass, Pre-Tin	A30646-ND	.17	2.51	11.09	1586316-1
	Brass, Pre-Tin	A99268CT-ND†	—	2.57	10.93	794957-1
	Brass, Pre-Tin	A99268TR-ND‡	62.55/5,000			794957-1
	Phos. Brz., Pre-Tin	A30648-ND	.14	3.04	13.43	1586316-3
	Brass, Gold	A30647-ND	.20	12.80	56.45	1586316-2
	Phos. Brz., Gold	A30649-ND	.21	13.65	60.22	1586316-4
22 - 18	Brass, Pre-Tin	A30650-ND	.17	2.51	11.09	1586314-1
	Brass, Pre-Tin	A99266CT-ND†	—	2.49	10.60	794955-1
	Brass, Pre-Tin	A99266TR-ND‡	56.63/3,500			794955-1
	Phos. Brz., Pre-Tin	A30652-ND	.14	3.04	13.43	1586314-3
	Brass, Gold	A30651-ND	.20	12.80	56.45	1586314-2
	Phos. Brz., Gold	A30653-ND	.21	13.65	60.22	1586314-4
Receptacle Contacts						
26 - 22	Brass, Pre-Tin	A30638-ND	.17	2.51	11.09	1586317-1
	Brass, Pre-Tin	A99269CT-ND†	—	2.49	10.60	794958-1
	Brass, Pre-Tin	A99269TR-ND‡	60.68/5,000			794958-1
	Phos. Brz., Pre-Tin	A30640-ND	.14	3.04	13.43	1586317-3
	Brass, Gold	A30639-ND	.31	19.79	87.33	1586317-2
	Phos. Brz., Gold	A30641-ND	.35	22.17	97.82	1586317-4
22 - 18	Brass, Pre-Tin	A30642-ND	.17	2.51	11.09	1586315-1
	Brass, Pre-Tin	A99267CT-ND†	—	2.49	10.60	794956-1
	Brass, Pre-Tin	A99267TR-ND‡	56.63/3,500			794956-1
	Phos. Brz., Pre-Tin	A30644-ND	.14	3.04	13.43	1586315-3
	Brass, Gold	A30643-ND	.31	19.79	87.33	1586315-2
	Phos. Brz., Gold	A30645-ND	.35	22.17	97.82	1586315-4
Tools						
Tool Crimp, 4.2mm PE, 22-26AWG		A30666-ND	318.60/1			91387-1
Tool Crimp, 4.2mm PE, 18-22AWG		A30667-ND	318.60/1			91388-1

† Cut Tape ‡ Tape and Reel

Tyco Electronics
Authorized Distributor

AMP Metrimate Pin and Socket Connectors

Product Facts:
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189
- Tested to VDE requirements outlined in VDE Test Report No. 4751-1431-1029/A1I 3544
- Designed to meet IEC (440 V) requirements • Polarized housings
- Housings made of UL rated 94V-0 thermoplastic

Fig. 1
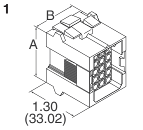

Fig. 2
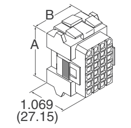

Fig. 3
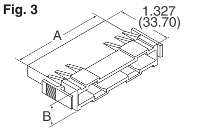

Fig. 4
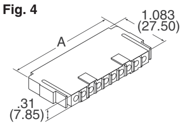

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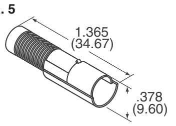

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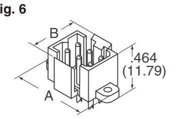

Fig. 7
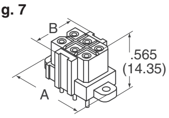

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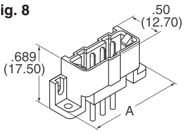

Fig. 9
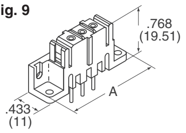

Fig.	No. of Positions	Type	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Square Grid Housings — RoHS Compliant								
1	4	Receptacle (Use Pin Contacts)	.829 (21.06)	.703 (17.86)	A29192-ND	1.25	.81	207016-1
	6		1.024 (26.01)	.703 (17.86)	A29198-ND	1.46	.94	207153-1
	9		.976 (24.79)	.937 (23.80)	A29200-ND	1.92	1.24	207440-1
	12		1.173 (29.79)	.937 (23.80)	A29194-ND	2.39	1.54	207018-1
	18		1.592 (40.44)	.937 (23.80)	A29202-ND	2.59	1.67	207443-1
	24		1.592 (40.44)	1.096 (27.84)	A29204-ND	2.98	1.92	207305-1
	36		2.183 (55.45)	1.096 (27.84)	A29196-ND	3.84	2.47	207020-1
2	4	Plug (Use Socket Contacts)	.829 (21.06)	.703 (17.86)	A29191-ND	1.17	.75	207015-1
	6		1.024 (26.01)	.703 (17.86)	A29197-ND	1.39	.90	207152-1
	9		.981 (24.92)	.937 (23.80)	A29199-ND	1.76	1.13	207439-1
	12		1.173 (29.79)	.937 (23.80)	A29193-ND	2.23	1.43	207017-1
	18		1.592 (40.44)	.937 (23.80)	A29201-ND	2.46	1.58	207442-1
	24		1.592 (40.44)	1.096 (27.84)	A29203-ND	2.95	1.90	207304-1
	36		2.183 (55.45)	1.096 (27.84)	A29195-ND	3.52	2.27	207019-1
In-Line Housings — RoHS Compliant								
3	3	Receptacle (Use Pin Contacts)	1.033 (26.25)	.485 (12.32)	A29206-ND	1.34	.87	207359-1
	6		1.625 (41.30)	.485 (12.32)	A29208-ND	1.50	.97	207376-1
	10		2.413 (61.30)	.485 (12.32)	A29190-ND	3.87	2.49	207397-1
	16		3.413 (86.70)	.459 (11.65)	A29211-ND	3.10	1.99	207543-1
4	3	Plug (Use Socket Contacts)	.933 (23.70)	—	A29207-ND	1.25	.81	207360-1
	6		1.524 (38.70)	—	A29209-ND	2.16	1.39	207377-1
	10		2.311 (58.70)	—	A29210-ND	1.96	1.26	207396-1
	16		3.535 (89.79)	—	A29212-ND	2.39	1.54	207542-1
Hermaphroditic Housing (Uses both Pin and Socket Contacts) — RoHS Compliant								
5	1	—	—	—	A29205-ND	1.39	.90	211076-1

Fig.	No. of Positions	Plating	Type	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Square Grid Vertical Headers									
6	4	Tin	Pin	.890 (22.61)	.500 (12.70)	A30061-ND	6.93	4.97	207119-1
	4	Tin	Pin	.890 (22.61)	.500 (12.70)	A33283-ND◆	6.09	4.37	207119-8
	4	Gold	Pin	.890 (22.61)	.500 (12.70)	A30062-ND	8.82	6.33	207119-3
	4	Gold	Pin	.890 (22.61)	.500 (12.70)	A33284-ND◆	8.82	6.33	1-207119-0
	6	Tin	Pin	1.090 (27.69)	.500 (12.70)	A32543-ND◆	5.43	3.90	207158-7
	6	Gold	Pin	1.090 (27.69)	.500 (12.70)	A30064-ND	7.62	5.47	207158-3
	6	Gold	Pin	1.090 (27.69)	.500 (12.70)	A33285-ND◆	7.62	5.47	1-207158-0
6	9	Tin	Pin	1.090 (27.69)	.737 (18.72)	A33286-ND◆	7.29	5.23	207441-7
	9	Gold	Pin	1.090 (27.69)	.737 (18.72)	A30066-ND	11.73	8.41	207441-3
	9	Gold	Pin	1.090 (27.69)	.737 (18.72)	A33287-ND◆	11.73	8.41	1-207441-0
	12	Tin	Pin	1.280 (32.51)	.737 (18.72)	A33288-ND◆	8.76	6.28	207120-9
	12	Gold	Pin	1.280 (32.51)	.737 (18.72)	A30068-ND	12.90	9.25	207120-3
	12	Gold	Pin	1.280 (32.51)	.737 (18.72)	A33289-ND◆	12.90	9.25	207120-8
	18	Gold	Pin	1.863 (47.32)	.737 (18.72)	A30070-ND	21.78	15.61	207444-3
	18	Gold	Pin	1.863 (47.32)	.737 (18.72)	A33291-ND◆	21.78	15.61	207444-8
	24	Tin	Pin	1.863 (47.32)	.941 (23.90)	A30071-ND	16.35	11.72	206763-1
	24	Tin	Pin	1.863 (47.32)	.941 (23.90)	A33292-ND◆	16.05	11.51	1-206763-1
	24	Gold	Pin	1.863 (47.32)	.941 (23.90)	A33293-ND◆	23.91	17.14	1-206763-3
	36	Tin	Pin	2.453 (62.31)	.941 (23.90)	A30073-ND	24.06	17.25	207121-1
	36	Gold	Pin	2.453 (62.31)	.941 (23.90)	A33295-ND◆	35.22	25.25	207121-9
7	4	Tin	Socket	.890 (22.61)	.610 (15.49)	A30075-ND	7.31	5.92	207496-1
	4	Tin	Socket	.890 (22.61)	.610 (15.49)	A33296-ND◆	7.31	5.92	207496-7
	4	Gold	Socket	.890 (22.61)	.610 (15.49)	A30076-ND	11.82	6.47	207496-3
	4	Gold	Socket	.890 (22.61)	.610 (15.49)	A33297-ND◆	11.82	6.47	207496-9
	6	Tin	Socket	1.090 (27.69)	.610 (15.49)	A30077-ND	6.89	5.58	207524-1
	6	Tin	Socket	1.090 (27.69)	.610 (15.49)	A33298-ND◆	4.73	3.83	207524-7
	6	Gold	Socket	1.090 (27.69)	.610 (15.49)	A30078-ND	7.42	4.06	207524-3
	6	Gold	Socket	1.090 (27.69)	.610 (15.49)	A33299-ND◆	7.26	3.98	207524-9
	9	Tin	Socket	1.090 (27.69)	.840 (21.34)	A30079-ND	5.84	4.73	207526-1
	9	Tin	Socket	1.090 (27.69)	.840 (21.34)	A33300-ND◆	5.61	4.54	207526-7
	9	Gold	Socket	1.090 (27.69)	.840 (21.34)	A30080-ND	17.97	9.84	207526-3
	9	Gold	Socket	1.090 (27.69)	.840 (21.34)	A33301-ND◆	14.95	8.18	207526-9
	12	Tin	Socket	1.280 (32.51)	.840 (21.34)	A30081-ND	6.62	5.36	207528-1
	12	Tin	Socket	1.280 (32.51)	.840 (21.34)	A33302-ND◆	6.62	5.36	207528-7
	12	Gold	Socket	1.280 (32.51)	.840 (21.34)	A30082-ND	12.14	6.65	207528-3
	12	Gold	Socket	1.280 (32.51)	.840 (21.34)	A33303-ND◆	11.90	6.52	207528-9
	18	Tin	Socket	1.863 (47.32)	.840 (21.34)	A30083-ND	9.58	7.76	207530-1
	18	Tin	Socket	1.863 (47.32)	.840 (21.34)	A33304-ND◆	9.39	7.60	207530-7
	18	Gold	Socket	1.863 (47.32)	.840 (21.34)	A30084-ND	21.57	11.81	207530-3
	18	Gold	Socket	1.863 (47.32)	.840 (21.34)	A33305-ND◆	21.57	11.81	207530-9
	24	Tin	Socket	1.863 (47.32)	1.006 (25.55)	A30085-ND	12.16	9.85	207532-1
	24	Tin	Socket	1.863 (47.32)	1.006 (25.55)	A33306-ND◆	11.93	9.66	207532-8
	24	Gold	Socket	1.863 (47.32)	1.006 (25.55)	A30086-ND	22.74	12.45	207532-3
	36	Tin	Socket	2.453 (62.31)	1.006 (25.55)	A33308-ND◆	17.60	14.25	207534-8
	36	Gold	Socket	2.453 (62.31)	1.006 (25.55)	A30088-ND	34.42	18.84	207534-3
	36	Gold	Socket	2.453 (62.31)	1.006 (25.55)	A33309-ND◆	34.42	18.84	1-207534-0
In-Line Vertical Headers									
8	3	Tin	Pin	1.451 (36.86)	—	A30089-ND	5.28	3.79	207365-1
	3	Tin	Pin	1.451 (36.86)	—	A33310-ND◆	5.19	3.72	207365-7
	3	Gold	Pin	1.451 (36.86)	—	A30090-ND	6.42	4.61	207365-3
	3	Gold	Pin	1.451 (36.86)	—	A33311-ND◆	6.30	4.52	207365-8
	6	Tin	Pin	2.042 (51.87)	—	A30091-ND	6.81	4.89	207583-1
	6	Gold	Pin	2.042 (51.87)	—	A30092-ND	9.06	6.50	207583-3
	6	Gold	Pin	2.042 (51.87)	—	A33313-ND◆	8.88	6.37	207583-7
	10	Tin	Pin	2.829 (71.86)	—	A30093-ND	9.72	6.97	207584-1
	10	Gold	Pin	2.829 (71.86)	—	A30094-ND	13.29	9.53	207584-3
	10	Gold	Pin	2.829 (71.86)	—	A33315-ND◆	13.05	9.36	207584-8
	16	Tin	Pin	4.041 (102.64)	—	A33316-ND◆	12.72	9.12	207599-6
	16	Gold	Pin	4.041 (102.64)	—	A30096-ND	18.51	13.27	207599-3
	16	Gold	Pin	4.041 (102.64)	—	A33317-ND◆	18.15	13.01	207599-7
9	3	Tin	Socket	1.439 (36.55)	—	A30097-ND	3.80	3.08	207609-1
	3	Tin	Socket	1.439 (36.55)	—	A33318-ND◆	3.74	3.03	207609-6
	3	Gold	Socket	1.439 (36.55)	—	A30098-ND	6.10	3.34	207609-3
	3	Gold	Socket	1.439 (36.55)	—	A33319-ND◆	5.99	3.28	207609-7
	6	Tin	Socket	2.031 (51.59)	—	A30099-ND	4.98	4.03	207611-1
	6	Tin	Socket	2.031 (51.59)	—	A33320-ND◆	4.87	3.95	207611-6
	6	Gold	Socket	2.031 (51.59)	—	A30100-ND	8.45	4.63	207611-3
	10	Tin	Socket	2.819 (71.60)	—	A33322-ND◆	8.21	6.65	207613-6
	10	Gold	Socket	2.819 (71.60)	—	A30101-ND	12.32	6.75	207613-3
	10	Gold	Socket	2.819 (71.60)	—	A33323-ND◆	12.32	6.75	207613-7
	16	Tin	Socket	4.007 (101.78)	—	A30102-ND	21.15	17.12	207615-1
	16	Gold	Socket	4.007 (101.78)	—	A30103-ND	18.50	10.13	207615-3
	16	Gold	Socket	4.007 (101.78)	—	A33325-ND◆	18.13	9.92	207615-7

◆ ***RoHS Compliant***

Crimp

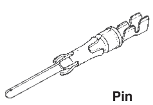

Pin

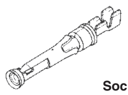

Socket

A Bright tin-lead on entire contact

B Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact

Desc.	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape and Reel Qty.	Pricing	AMP Part No.
Crimp — RoHS Compliant														
Pin	26-24	.035-.055	A	A31991-ND	.44	.31	1-66107-1	A31991CT-ND	46.59	213.54	A31991TR-ND	4,000	232.95/M	1-66106-5
Socket	26-24	.035-.055	A	—	—	—	—	A31992CT-ND	60.75	278.44	A31992TR-ND	4,000	303.75/M	1-66108-5
Pin	26-24	.035-.055	B	A1344-ND	1.01	.70	66107-4	A1344CT-ND	72.77	333.51	A1344TR-ND	4,000	363.83/M	66106-8
Pin	24-20	.040-.080	A	A31989-ND	.44	.31	1-66103-8	A31989CT-ND	49.19	225.43	A31989TR-ND	4,000	245.93/M	2-66102-5
Socket	24-20	.040-.080	A	A31990-ND	.52	.37	1-66105-9	A31990CT-ND	58.41	267.71	A31990TR-ND	4,000	292.05/M	3-66104-0
Pin	24-20	.040-.080	B	A1342-ND	1.06	.74	66103-4	A1342CT-ND	80.54	369.12	A1342TR-ND	4,000	402.68/M	66102-9
Socket	24-20	.040-.080	B	A1343-ND	1.26	.88	66105-4	A1343CT-ND	97.14	445.21	A1343TR-ND	4,000	485.69/M	66104-9
Pin	18-16	.080-.100	A	A31987-ND	.44	.31	1-66099-5	A31987CT-ND	46.57	213.43	A31987TR-ND	4,000	232.83/M	1-66098-8
Socket	18-16	.080-.100	A	A31988-ND	.52	.37	1-66101-9	A31988CT-ND	47.13	216.01	A31988TR-ND	4,000	235.65/M	1-66100-9
Pin	18-16	.080-.100	B	A1340-ND	1.06	.74	66099-4	A1340CT-ND	79.01	362.13	A1340TR-ND	4,000	395.06/M	66098-9
Socket	18-16	.080-.100	B	A16080-ND	1.26	.88	66101-4	A16080CT-ND	87.97	403.18	A16080TR-ND	4,000	439.83/M	66100-9
Tools														
Contact Extraction Tool								A1329-ND	12.38/1				305183	
PRO-CRIMPER Tool with Die Set								A9920-ND	164.70/1				58495-1	
PRO-CRIMPER II/III Repair Kit								A34584-ND	41.96/1				679221-1	
Certi-Crimp Tool, 26-24 AWG								A9951-ND	603.45/1				91515-1	
Certi-Crimp Tool, 24-20 AWG								A9839-ND	603.45/1				91523-1	
Crimp Tool, Ratcheting, 18-16 AWG								A9841-ND	603.45/1				91505-1	

AMP Commercial MATE-N-LOK® Connectors

Fig. 1

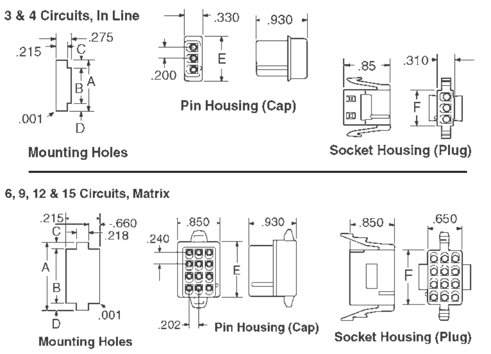

Fig. 2

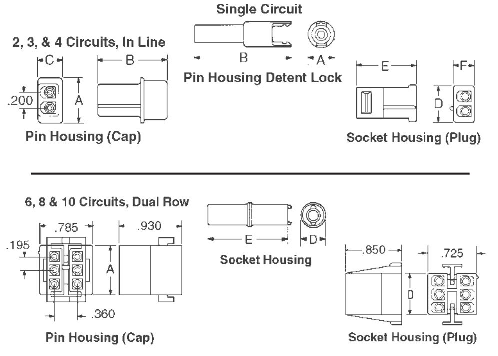

Fig. 3

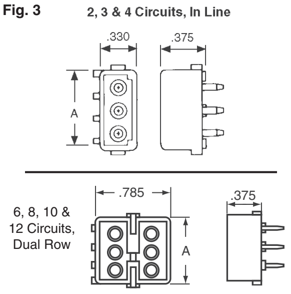

Mate with Free Hanging Socket Connectors
Housing Material: Natural nylon **Pin Material:** Copper alloy. ***Note:*** *Use standard pin for .062" (1.57 mm) thick PC board. Use long tail for .125" (3.18 mm) thick PC board.*

Fig. 4

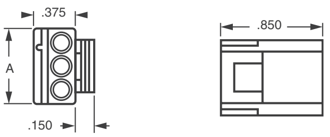

Fig. 5

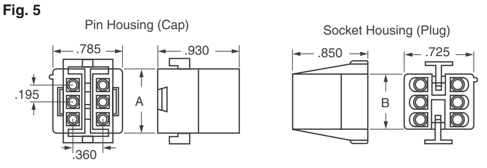

Fig. 6

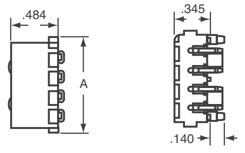

Fig. 7

Mating parts include socket housings, a vertical PC Board socket header and the insulation displacement connectors (IDC) **Specifications:** • Pre-Tin Solder Tail: width .052" (1.32mm) • Housing Material: Nylon, black • Flammability Rating: UL94V-2 • Contact: Phosphor bronze • Pin Material: Copper alloy **Recommended PC Board Layout: .061" (1.57mm) thick PC Board.**

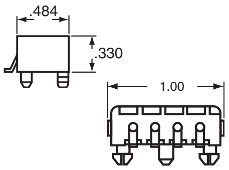

Fig. 8

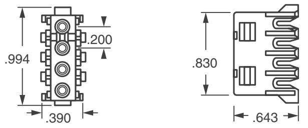

Fig. 9

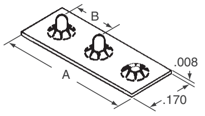

No. of Cir.	Description	Dimensions – Inch						Digi-Key Part No.	Pricing		AMP Part No.
		A	B	C	D	E	F		1	100	
Fig. 1 – Panel-Mount Rectangular Connectors (Contacts Sold Separately) — RoHS Compliant											
3	Pin Housing	.890	.645	.123	.123	.810	—	A1400-ND	.34	21.73	1-480305-0
	Socket Housing	.890	.645	.123	.123	—	.630	A1401-ND	.39	25.22	1-480304-0
4	Pin Housing	1.090	.845	.123	.123	1.010	—	A1402-ND	.41	26.39	1-480426-0
	Socket Housing	1.090	.845	.123	.123	—	.830	A1403-ND	.60	38.32	1-480425-0
6	Pin Housing	.850	.575	.138	.138	.655	—	A1404-ND	.68	43.56	1-480276-0
	Socket Housing	.850	.575	.138	.138	—	.565	A1405-ND	.79	50.98	1-480273-0
9	Pin Housing	1.085	.815	.135	.135	.905	—	A1406-ND	.83	53.43	1-480277-0
	Socket Housing	1.085	.815	.135	.135	—	.805	A1407-ND	.91	58.10	1-480274-0
12	Pin Housing	1.320	1.050	.135	.135	1.145	—	A1424-ND	.96	61.89	1-480278-0
	Socket Housing	1.320	1.050	.135	.135	—	1.045	A1425-ND	1.02	65.48	1-480275-0
15	Pin Housing	1.555	1.290	.133	.133	1.382	—	A1426-ND	1.16	74.60	1-480324-0
	Socket Housing	1.555	1.290	.133	.133	—	1.280	A1427-ND	1.31	83.88	1-480323-0
Fig. 2 – Free-Hanging Rectangular Connectors (Contacts Sold Separately) — RoHS Compliant											
1	Pin Housing	.300	1.200	—	—	—	—	A1204-ND	.34	11.57	1-480350-0
	Socket Housing	.300	1.240	—	—	—	—	A1408-ND	.34	9.53	1-480351-0
	Positive Lock	—	—	—	2.60	.870	—	A1409-ND	.29	8.29	1-480349-0
	Pin Housing	.300	1.325	—	—	—	—	A25388-ND*	.82	52.73	1-480401-0
	Socket Housing	—	—	—	.260	.995		A25389-ND*	.46	16.63	1-480400-0
2	Pin Housing	.610	.930	.330	—	—	—	A1410-ND	.34	12.11	1-480319-0
	Socket Housing	—	—	—	.530	.860	.295	A1411-ND	.34	12.06	1-480318-0
	Pin Housing	.610	.930	.330	—	—	—	A25756-ND*	.56	36.13	1-480498-1
	Socket Housing	—	—	—	.530	.860	.295	A25757-ND*	1.46	93.71	1-480393-1
3	Pin Housing	.810	.930	.325	—	—	—	A1400-ND	.34	21.73	1-480305-0
	Socket Housing	—	—	—	.825	.850	.290	A1429-ND	.36	22.80	1-480303-0
	Pin Housing	.810	.930	.325	—	—	—	A25414-ND*	1.34	86.13	1-480387-0
	Socket Housing	—	—	—	.825	.850	.290	A25415-ND*	.51	32.90	1-480388-0
4	Pin Housing	1.010	.930	.330	—	—	—	A1402-ND	.41	26.39	1-480426-0
	Socket Housing	—	—	—	1.030	.850	.310	A1431-ND	.30	19.33	1-480424-0
	Pin Housing	1.010	.930	.330	—	—	—	A25416-ND†	1.76	112.71	794132-1
	Socket Housing	—	—	—	1.030	.850	.310	A25417-ND†	.58	37.27	770827-1
6	Pin Housing	.705	—	—	—	—	—	A1412-ND	.57	36.85	1-480340-0
	Socket Housing	—	—	—	.610	—	—	A1413-ND	.69	44.48	1-480270-0
8	Pin Housing	.900	—	—	—	—	—	A1206-ND	.63	40.36	1-480345-0
	Socket Housing	—	—	—	—	.805	—	A1207-ND	.73	46.62	1-480283-0
10	Pin Housing	1.095	—	—	—	—	—	A1414-ND	.72	46.29	1-480339-0
	Socket Housing	—	—	—	1.00	—	—	A1415-ND	.81	52.08	1-480285-0

No. of Circuits	Description	Dimension – Inch		Digi-Key Part No.	Pricing		AMP Part No.
		A	B		1	100	
Fig. 3 – Printed Circuit Board Pin Header Assemblies – Mate Socket Housing							
2	Pre-Tin with Detent Lock	.515	—	A1208-ND◆	.76	54.44	350209-1
	Gold with Detent Lock	.515	—	A32180-ND◆	1.42	102.02	1586512-2
	Pre-Tin Positive Lock	.515	—	A14364-ND◆	1.00	71.73	350539-1
	Gold Positive Lock	.515	—	A32186-ND◆	1.70	122.03	1586530-2
	Pre-Tin with Positive Lock Long Tail	.515	—	A14366-ND◆	1.27	91.10	350540-1
	Pre-Tin Detent Lock Long Tail	.515	—	A14367-ND◆	.73	52.13	350422-1
3	Pre-Tin with Detent Lock	.715	—	A1210-ND◆	1.05	75.38	350210-1
	Gold with Detent Lock	.715	—	A32181-ND◆	2.17	155.59	1586514-2
	Pre-Tin Positive Lock	.715	—	A14368-ND◆	1.27	90.68	350541-1
	Gold Positive Lock	.715	—	A32187-ND◆	2.45	175.60	1586532-2
	Pre-Tin Detent Lock Long Tail	.715	—	A14370-ND◆	.95	68.25	350423-1
4	Pre-Tin with Detent Lock	.915	—	A1212-ND◆	.99	70.59	350211-1
	Gold with Detent Lock	.915	—	A32182-ND◆	2.71	194.16	1586515-2
	Pre-Tin Positive Lock	.915	—	A14371-ND◆	1.91	136.68	350543-1
	Gold Positive Lock	.915	—	A32188-ND◆	3.36	240.85	1586534-2
	Pre-Tin Positive Lock Long Tail	.915	—	A14373-ND◆	2.27	162.56	350544-1
	Pre-Tin Detent Lock Long Tail	.915	—	A14374-ND◆	1.11	79.83	350424-1
	Gold Detent Lock Long Tail	.915	—	A32185-ND◆	5.68	406.87	1586525-2
6	Pre-Tin Positive Lock Dual Row	.705	—	A1214-ND◆	1.35	96.79	1-380999-0
	Gold Positive Lock Dual Row	.705	—	A1215-ND A33353-ND◆	3.82 3.58	273.88 256.29	2-380999-0 2-1586546-0
	Pre-Tin Positive Lock Long Tail Dual Row	.705	—	A14376-ND◆	1.34	95.76	350425-1
8	Pre-Tin Positive Lock Dual Row	.900	—	A1216-ND◆	1.57	112.35	350212-1
	Pre-Tin Positive Lock Long Tail	.900	—	A14377-ND◆	1.51	108.35	350426-1
	Gold Positive Lock Dual Row	.900	—	A32183-ND◆	4.20	301.00	1586518-2
10	Pre-Tin Positive Lock Dual Row	1.095	—	A1218-ND◆	1.85	132.53	1-380991-0
	Gold Positive Lock Dual Row	1.095	—	A1219-ND A33354-ND◆	7.40 5.77	530.51 413.70	2-380991-0 2-1586544-0
	Pre-Tin Positive Lock Long Tail	1.095	—	A14378-ND◆	2.17	155.58	350219-1
12	Pre-Tin Positive Lock	1.290	—	A14379-ND◆	2.20	157.48	350213-1
	Pre-Tin Positive Lock Long Tail	1.290	—	A14380-ND◆	2.29	164.29	350220-1
16	Pre-Tin Positive Lock	1.680	—	A14381-ND◆	2.71	194.12	350214-1
	Pre-Tin Positive Lock Long Tail	1.680	—	A14382-ND◆	3.53	252.93	350427-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◆ ***RoHS Compliant*** *(Continued)*

AMP Commercial MATE-N-LOK® Connectors *(Cont.)*

No. of Circuits	Description	Dimension – Inch A	Dimension – Inch B	Digi-Key Part No.	Pricing 1	Pricing 100	AMP Part No.
Fig. 3 – PC Board Vertical Pin Header – Mate with Socket Housing – UL94V-2 — RoHS Compliant							
4	Pre-Tin, with Detent Lock Housing Material UL94V-0	.915	—	A25422-ND	1.07	76.75	794236-1
12	Gold with Positive Lock	1.290	—	A32184-ND	6.36	455.76	1586520-2
Fig. 3 – PC Board Vertical Socket Header – Mate with Pin Housing – UL94V-2 — RoHS Compliant							
4	Pre-Tin, In-Line, SMT Compatible	1.000	—	A25425-ND	1.43	115.38	794287-1
6	Pre-Tin, Matrix	.720	—	A25763-ND	2.63	212.50	350641-1
9	Pre-Tin, Matrix	.960	—	A25764-ND	1.13	91.24	350642-1
15	Pre-Tin, Matrix	1.440	—	A25765-ND	6.18	500.19	350644-1
Fig. 4 – Positive Lock Socket Housing — RoHS Compliant							
2	Socket Housing (Plug)	.435	—	A14357-ND	.60	38.57	1-480720-0
3	Socket Housing (Plug)	.630	—	A14358-ND	.80	51.43	1-480721-0
4	Socket Housing (Plug)	.830	—	A14359-ND	.80	51.57	1-480722-0
Fig. 5 – Motor Mount Housing (Positive Lock) — RoHS Compliant							
6	Pin Housing (Cap)	.705	—	A14361-ND	.75	48.26	1-480271-0
6	Socket Housing (Plug)	—	.610	A1413-ND	.69	44.48	1-480270-0
8	Pin Housing (Cap)	.900	—	A25410-ND	1.01	64.57	1-480284-0
10	Pin Housing (Cap)	1.095	—	A25411-ND	1.15	73.99	1-480286-0
12	Pin Housing (Cap)	1.290	—	A25413-ND	1.48	94.71	1-480288-0
12	Socket Housing (Plug)	—	1.195	A25412-ND	1.02	65.48	1-480287-0
16	Pin Housing (Cap)	1.680	—	A14363-ND	1.42	91.28	1-480439-0
16	Socket Housing (Plug)	—	1.585	A14362-ND	1.55	99.58	1-480438-0
Fig. 6 – PC Board Right Angle Pin Headers - Mates with Socket Housing — RoHS Compliant							
2	UL94V-2, Nylon, Natural	.600	—	A25753-ND	1.66	118.94	794120-1
3	UL94V-0, Nylon	.800	—	A25429-ND	1.88	134.94	643488-1
4	UL94V-2, Nylon, Natural	1.000	—	A25430-ND	1.61	115.49	641737-1
	UL94V-2, Nylon, Natural, Surface Mount Compatible	1.000	—	A25431-ND	2.61	187.25	770846-1
	UL94V-0, Nylon	1.000	—	A25432-ND	2.45	175.49	1-641737-1
Fig. 7 – PC Board Surface Mount Pin Header — RoHS Compliant							
4	Pin Header, In-Line	—	—	A25424-ND	2.34	167.39	770829-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◆ ***RoHS Compliant***

Description	Dimension – Inch A	Dimension – Inch B	Digi-Key Part No.	Pricing 1	Pricing 100	AMP Part No.
Fig. 8 – Insulation Displacement Connector (IDC) — RoHS Compliant						
Pre-Tin, 22AWG, Red, UL94V-2	—	—	A14383-ND	.69	55.55	770156-2
Pre-Tin, 22AWG, Red, UL94V-0	—	—	A25433-ND	.98	79.31	794036-3
Pre-Tin, 20AWG, Yellow, UL94V-2	—	—	A14384-ND	.69	55.55	770156-4
Pre-Tin, 20AWG, Yellow, UL94V-0	—	—	A25434-ND	.98	79.31	794036-2
Pre-Tin, 18AWG, Orange, UL94V-2	—	—	A14385-ND	.69	55.55	770156-3
Pre-Tin, 18AWG, Orange, UL94V-0	—	—	A25435-ND	1.21	98.32	794036-1
Pre-Tin, 16AWG, Blue, UL94V-2	—	—	A25436-ND	.75	60.89	770156-5
Pre-Tin, 16AWG, Blue, UL94V-0	—	—	A25437-ND	.98	79.31	794036-4
Dust Covers for IDC Parts - UL94V-2 — RoHS Compliant						
For Feed-To Wiring, Polyester, White	—	—	A25438-ND	.15	11.89	770232-1
For Feed-Thru Wiring, Polyester, White	—	—	A25439-ND	.15	12.32	770233-1
Fig. 9 – Commoning Tabs - Use With Pin Housing — RoHS Compliant						
2 Holes, Brass, Tin Plated	.377	.203	A25427-ND	.07	5.94	60843-1
3 Holes, Brass, Tin Plated	.579	.203	A25428-ND	.08	6.55	60842-1
Tools						
CERTI-CRIMP™ Crimp Tool, 30-22AWG, .035” ~ .055”Insulation Diameter			A9951-ND	603.45/1		91515-1
CERTI-CRIMP Crimp Tool, 24-18AWG, .043” ~ .100” Insulation Diameter			A9948-ND	603.45/1		91528-1
CERTI-CRIMP Crimp Tool, 24-18AWG, .060” ~ .100” Insulation Diameter			A9974-ND	603.45/1		91512-1
CERTI-CRIMP Crimp Tool, 20-14AWG, .100” ~ .130” Insulation Diameter			A9908-ND	603.45/1		91504-1
PRO-CRIMPER™ III Crimp Tool Without Dies			A9996-ND	45.36/1		354940-1
PRO-CRIMPER II/III Repair Kit			A34584-ND	41.96/1		679221-1
PRO-CRIMPER III Crimp Tool, With Dies, 24-18AWG			A25418-ND	259.20/1		90574-1
PRO-CRIMPER III Crimp Tool, With Dies, 20-14AWG			A25419-ND	259.20/1		90575-1
Die Set for PRO-CRIMPER III 24-18AWG			A9940-ND	207.90/1		90574-2
Die Set for PRO-CRIMPER III 20-14AWG			A9939-ND	207.90/1		90575-2
Contact Extraction Tool			A1419-ND	12.52/1		465644-1
Contact Insertion Tool			A9998-ND	19.77/1		91002-1
Contact Insertion Tool (Tweezer Type)			A1444-ND	16.14/1		455830-1

AMP Contacts

Fig. 1

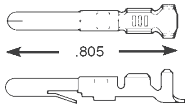

Pin

- Carries up to 15 amps maximum (based on 30°C temperature rise)
- Low insertion/extraction forces
- UL recognized for 250 volts, AC/DC
- CSA certified

Fig. 2

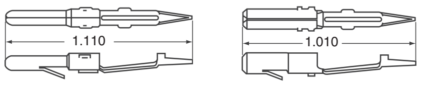

Pin **Socket**

For PC board with the following specifications:
- Board Thickness: .062” (1.57mm)
- Board Hole Size: .057” (1.45mm)

Description	Insul. Dia. Range (Inch)	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
Fig. 1 – Crimp Contacts (Pins & Sockets)												
Pin, Brass, Pre-Tin	30-22AWG .040 - .075	A25547-ND	2.26	15.21	61174-1	A25547CT-ND	—	91.83	A25547TR-ND	8,000	55.10/M	350079-1
Socket, Brass, Pre-Tin	30-22AWG .040 - .075	A25548-ND	2.39	16.06	61173-1	A25548CT-ND	50.50	91.83	A25548TR-ND	6,500	55.10/M	350078-1
Pin, Phosphor Bronze, Pre-Tin	30-22AWG .040 - .075	—	—	—	—	A25549CT-ND	107.59	160.15	A25549TR-ND	8,000	123.20/M	350079-4
Socket, Phosphor Bronze, Pre-Tin	30-22AWG .040 - .075	A25550-ND	3.57	24.05	61173-4	A25550CT-ND	80.48	146.33	A25550TR-ND	6,500	87.80/M	350078-4
Pin, Brass, Gold	30-22AWG .040 - .075	A25552-ND	17.85	120.07	61174-5	A25552CT-ND	—	1000.13	A25552TR-ND	8,000	600.08/M	350079-5
Socket, Brass, Gold	30-22AWG .040 - .075	A25767-ND	17.85	120.07	61173-5	—	—	—	—	—	—	—
Pin, Brass, Pre-Tin	24-18AWG .060 - .100	A1422-ND	1.87	12.58	60618-1	—	—	—	—	—	—	—
Socket, Brass, Pre-Tin	24-18AWG .060 - .100	A1423-ND	1.85	12.42	60617-1	—	—	—	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin	24-18AWG .060 - .100	A25554-ND	3.34	22.46	60618-4	A25554CT-ND	—	146.33	A25554TR-ND	8,000	87.80/M	61116-4
Socket, Phosphor Bronze, Pre-Tin	24-18AWG .060 - .100	A25555-ND	3.34	22.46	60617-4	A25555CT-ND	—	109.13	A25555TR-ND	7,000	65.48/M	61314-4
Pin, Brass, Gold	24-18AWG .060 - .100	A1432-ND	15.48	104.15	60618-5	—	—	—	—	—	—	—
Socket, Brass, Gold	24-18AWG .060 - .100	A1433-ND	15.48	104.15	60617-5	—	—	—	—	—	—	—
Pin, Phosphor Bronze, Select Gold	24-18AWG .060 - .100	A25558-ND	20.53	138.14	60618-6	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Select Gold	24-18AWG .060 - .100	A25559-ND	15.96	107.35	60617-6	A25559CT-ND	—	878.73	A25559TR-ND	7,000	527.24/M	61314-6
Pin, Brass, Select Gold	24-18AWG .060 - .100	—	—	—	—	A25560CT-ND	328.60	489.14	A25560TR-ND	8,000	376.26/M	61116-7
Pin, Brass, Pre-Tin	20-14AWG .100 - .130	A1420-ND	1.76	11.83	60620-1	A97887CT-ND	29.85	44.44	A97887TR-ND	5,000	34.19/M	61118-1
Socket, Brass, Pre-Tin	20-14AWG .100 - .130	A1421-ND	1.85	12.42	60619-1	A97888CT-ND	29.85	44.44	A97888TR-ND	5,000	34.19/M	61117-1
Pin, Phosphor Bronze, Pre-Tin	20-14AWG .100 - .130	A25561-ND	3.34	22.46	60620-4	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin	20-14AWG .100 - .130	A25562-ND	3.34	22.46	60619-4	—	—	—	—	—	—	—
Pin, Brass, Gold	20-14AWG .100 - .130	A1434-ND	17.85	120.07	60620-5	A1434CT-ND	—	1000.13	A1434TR-ND	5,000	600.08/M	61118-5
Socket, Brass, Gold	20-14AWG .100 - .130	A1435-ND	14.74	99.19	60619-5	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Gold	20-14AWG .100 - .130	A25565-ND	18.31	123.18	60619-7	—	—	—	—	—	—	—
Pin, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin	.115 Max.(stacked)	A25568-ND	3.21	21.59	350639-1	A25568CT-ND	—	109.65	A25568TR-ND	3,000	87.72/M	350558-1
Socket, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin	.115 Max.(stacked)	—	—	—	—	A25567CT-ND	52.47	78.10	A25567TR-ND	3,000	80.10/M	350557-1
Pin, (2)18 or (1)18 and (1)16AWG, Phos. Bronze, Pre-Tin	.115 Max.(stacked)	—	—	—	—	A25769CT-ND	87.85	130.77	A25769TR-ND	3,000	134.12/M	350558-4
Socket, (2)18 or (1)18 and (1)16AWG, Phos. Brz., Pre-Tin	.115 Max.(stacked)	A25570-ND	4.74	31.87	350638-4	A25570CT-ND	—	167.65	A25570TR-ND	3,000	134.12/M	350557-4
Fig. 2 – PC Board Contacts												
Pin, Phosphor Bronze, Pre-Tin	—	A24727-ND	2.39	16.06	61518-1	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin	—	A24728-ND	2.39	16.06	61320-1	—	—	—	—	—	—	—
Keying Plug												
Nylon, Natural UL94V-2	—	A16066-ND	—	14.65	200821-1	—	—	—	—	—	—	—

Gold Finish - Plated with .000030 minimum gold in mating area and inside wire barrel over .000050 minimum nickel Select Gold Finish - Plated with .000030 minimum gold in mating area over .000050 minimum nickel

AMP Micro MATE-N-LOK® Connectors

Features:
- Wire-to-wire and wire-to-board pin and receptacle connector system
- Contacts are on 3mm (.118 inch) centerline spacing

Characteristics:
- Voltage Rating: 250VAC
- Current Rating: 5A maximum on 20AWG wire
- Operating Temperature: -40°C ~ 105°C

Approvals:
- Underwriters Laboratories Inc.
- File No. E28476

Fig. 1

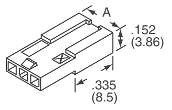

Fig. 2

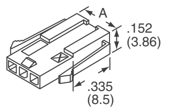

Fig. 3

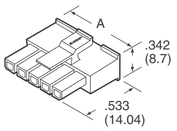

Fig. 4

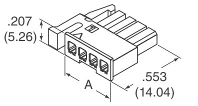

Fig. 5

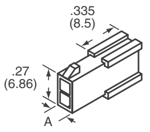

Fig. 6

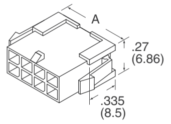

Fig. 7

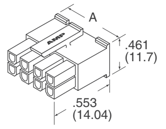

Fig. 8

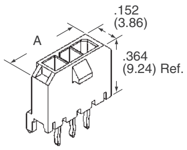

Fig. 9

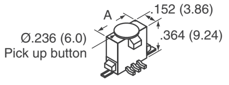

Fig. 10

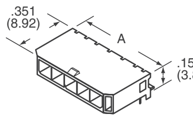

Fig. 11

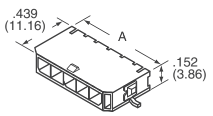

Fig. 12

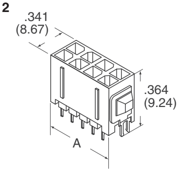

Fig. 13

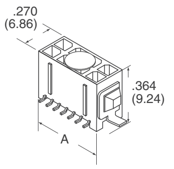

Fig. 14

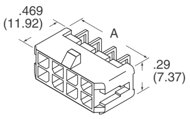

Fig. 15

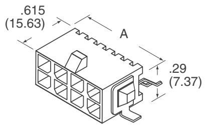

Fig.	No. of Circuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Pricing	
Plug Housing — Single Row, Free Hanging – RoHS Compliant											
1	2	6.85	—	A30236-ND	.24	.16	.12	—	—	—	1445049-2
	3	9.85	—	A30237-ND	.27	.18	.14	—	—	—	1445049-3
	4	12.85	—	A30238-ND	.31	.20	.16	—	—	—	1445049-4
	5	15.85	—	A30239-ND	.35	.23	.18	—	—	—	1445049-5
	6	18.85	—	A30240-ND	.39	.25	.20	—	—	—	1445049-6
	7	21.85	—	A30241-ND	.42	.28	.22	—	—	—	1445049-7
	8	24.85	—	A30242-ND	.46	.30	.24	—	—	—	1445049-8
	9	27.85	—	A30243-ND	.50	.32	.26	—	—	—	1445049-9
	10	30.85	—	A30244-ND	.54	.35	.27	—	—	—	1-1445049-0
	11	33.85	—	A30245-ND	.57	.37	.29	—	—	—	1-1445049-1
	12	36.85	—	A30246-ND	.61	.40	.31	—	—	—	1-1445049-2
Plug Housing — Single Row, Panel Mount – RoHS Compliant											
2	2	6.85	—	A30247-ND	.24	.16	.12	—	—	—	1445048-2
	3	9.85	—	A30248-ND	.27	.18	.14	—	—	—	1445048-3
	4	12.85	—	A30249-ND	.31	.20	.16	—	—	—	1445048-4
	5	15.85	—	A30250-ND	.35	.23	.18	—	—	—	1445048-5
	6	18.85	—	A30251-ND	.39	.25	.20	—	—	—	1445048-6
	7	21.85	—	A30252-ND	.42	.28	.22	—	—	—	1445048-7
	8	24.85	—	A30253-ND	.46	.30	.24	—	—	—	1445048-8
	10	30.85	—	A30255-ND	.54	.35	.27	—	—	—	1-1445048-0
	12	36.85	—	A30257-ND	.61	.40	.31	—	—	—	1-1445048-2
Receptacle Housing — Single Row – RoHS Compliant											
3	2	7.00	—	A30258-ND	.25	.16	.13	—	—	—	1445022-2
	3	10.00	—	A30259-ND	.29	.19	.15	—	—	—	1445022-3
	4	13.00	—	A30260-ND	.32	.21	.17	—	—	—	1445022-4
	5	16.00	—	A30261-ND	.36	.24	.19	—	—	—	1445022-5
	6	19.00	—	A30262-ND	.40	.26	.21	—	—	—	1445022-6
	7	22.00	—	A30263-ND	.44	.29	.23	—	—	—	1445022-7
	8	25.00	—	A30264-ND	.48	.31	.25	—	—	—	1445022-8
	9	28.00	—	A30265-ND	.52	.34	.27	—	—	—	1445022-9
	10	31.00	—	A30266-ND	.56	.36	.29	—	—	—	1-1445022-0
	11	34.00	—	A30267-ND	.60	.39	.30	—	—	—	1-1445022-1
	12	37.00	—	A30268-ND	.64	.41	.32	—	—	—	1-1445022-2
Receptacle Housing — Single Row, Low Profile – RoHS Compliant											
4	2	7.00	—	A99175-ND‡	.36	.26	.17	—	—	—	2029047-2
	3	10.00	—	A99176-ND‡	.41	.30	.19	—	—	—	2029047-3
	4	13.00	—	A99177-ND‡	.47	.34	.22	—	—	—	2029047-4
	2	7.00	—	A99178-ND◊	.37	.27	.17	—	—	—	2029102-2
	3	10.00	—	A99179-ND◊	.43	.32	.20	—	—	—	2029102-3
	4	13.00	—	A99180-ND◊	.49	.36	.23	—	—	—	2029102-4

Fig.	No. of Circuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Pricing	
Plug Housing — Dual Row, Free Hanging – RoHS Compliant											
5	2	3.85	—	A30269-ND	.26	.17	.14	—	—	—	794616-2
	4	6.85	—	A30270-ND	.45	.29	.23	—	—	—	794616-4
	6	9.85	—	A30271-ND	.48	.31	.25	—	—	—	794616-6
	8	12.85	—	A30272-ND	.58	.37	.29	—	—	—	794616-8
	10	15.85	—	A30273-ND	.67	.43	.34	—	—	—	1-794616-0
	12	18.85	—	A30274-ND	.76	.49	.39	—	—	—	1-794616-2
	14	21.85	—	A30275-ND	.86	.55	.44	—	—	—	1-794616-4
	16	24.85	—	A30276-ND	.95	.61	.48	—	—	—	1-794616-6
	18	27.85	—	A30277-ND	1.04	.67	.53	—	—	—	1-794616-8
	20	30.85	—	A30278-ND	1.14	.73	.58	—	—	—	2-794616-0
	22	33.85	—	A30279-ND	1.23	.79	.62	—	—	—	2-794616-2
	24	36.85	—	A30280-ND	1.32	.85	.67	—	—	—	2-794616-4
Plug Housing — Dual Row, Panel Mount – RoHS Compliant											
6	2	3.85	—	A30281-ND	.26	.17	.14	—	—	—	794615-2
	4	6.85	—	A30282-ND	.45	.29	.23	—	—	—	794615-4
	6	9.85	—	A30283-ND	.48	.31	.25	—	—	—	794615-6
	8	12.85	—	A30284-ND	.58	.37	.29	—	—	—	794615-8
	10	15.85	—	A30285-ND	.67	.43	.34	—	—	—	1-794615-0
	12	18.85	—	A30286-ND	.76	.49	.39	—	—	—	1-794615-2
	14	21.85	—	A30287-ND	.86	.55	.44	—	—	—	1-794615-4
	16	24.85	—	A30288-ND	.95	.61	.48	—	—	—	1-794615-6
	18	27.85	—	A30289-ND	1.04	.67	.53	—	—	—	1-794615-8
	20	30.85	—	A30290-ND	1.14	.73	.58	—	—	—	2-794615-0
	22	33.85	—	A30291-ND	1.23	.79	.62	—	—	—	2-794615-2
	24	36.85	—	A30292-ND	1.32	.85	.67	—	—	—	2-794615-4
Receptacle Housing — Dual Row – RoHS Compliant											
7	2	4.00	—	A30293-ND	.32	.21	.17	—	—	—	794617-2
	4	7.00	—	A30294-ND	.35	.23	.18	—	—	—	794617-4
	6	10.00	—	A30295-ND	.39	.26	.20	—	—	—	794617-6
	8	13.00	—	A30296-ND	.43	.28	.22	—	—	—	794617-8
	10	16.00	—	A30297-ND	.47	.31	.24	—	—	—	1-794617-0
	12	19.00	—	A30298-ND	.52	.34	.27	—	—	—	1-794617-2
	14	22.00	—	A30299-ND	.57	.37	.29	—	—	—	1-794617-4
	16	25.00	—	A30300-ND	.63	.41	.32	—	—	—	1-794617-6
	18	28.00	—	A30301-ND	.69	.45	.35	—	—	—	1-794617-8
	20	31.00	—	A30302-ND	.76	.49	.39	—	—	—	2-794617-0
	22	34.00	—	A30303-ND	.84	.54	.42	—	—	—	2-794617-2
	24	37.00	—	A30304-ND	.92	.60	.47	—	—	—	2-794617-4

† Cut Tape ‡ Black ◊ Natural

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP Micro MATE-N-LOK® Connectors *(Cont.)*

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each 1	100	1,000	Digi-Key Part No.	Tape & Reel Qty.	Pricing	AMP Part No.
Vertical Thru Hole Header — Single Row – RoHS Compliant											
8	2	7.00	Tin	A33194-ND	.72	.52	.33	—	—	—	2-1445050-2
	2	7.00	Gold	A34833-ND	.72	.52	.33	—	—	—	2-1445093-2
	3	10.00	Tin	A33195-ND	.86	.62	.39	—	—	—	2-1445050-3
	3	10.00	Gold	A33198-ND	.86	.62	.39	—	—	—	2-1445093-3
	4	13.00	Gold	A34834-ND	.99	.72	.45	—	—	—	2-1445093-4
	5	16.00	Tin	A33196-ND	1.13	.81	.51	—	—	—	2-1445050-5
	5	16.00	Gold	A34835-ND	1.13	.81	.51	—	—	—	2-1445093-5
	6	19.00	Gold	A34836-ND	1.26	.91	.57	—	—	—	2-1445093-6
	7	22.00	Tin	A34827-ND	1.39	1.00	.63	—	—	—	2-1445050-7
	7	22.00	Gold	A34837-ND	1.39	1.00	.63	—	—	—	2-1445093-7
	8	25.00	Tin	A34828-ND	1.53	1.10	.69	—	—	—	2-1445050-8
	8	25.00	Gold	A34838-ND	1.53	1.10	.69	—	—	—	2-1445093-8
	9	28.00	Gold	A34839-ND	1.66	1.20	.75	—	—	—	2-1445093-9
	10	31.00	Tin	A34840-ND	1.79	1.29	.81	—	—	—	3-1445050-0
	10	31.00	Gold	A34844-ND	1.79	1.29	.81	—	—	—	3-1445093-0
Vertical Surface Mount Header — Single Row, with Surface Mount Holddowns – RoHS Compliant											
9	2	10.00	Tin	A33199CT-ND†	1.47	.88	—	A33199TR-ND	210	149.46	2-1445053-2
	3	13.00	Tin	A33200CT-ND†	1.58	.95	—	A33200TR-ND	210	160.96	2-1445053-3
	3	13.00	Gold	A33205CT-ND†	1.74	1.05	—	A33205TR-ND	210	177.06	2-1445096-3
	4	16.00	Tin	A33201CT-ND†	1.82	1.10	—	A33201TR-ND	210	186.06	2-1445053-4
	4	16.00	Gold	A33206CT-ND†	2.01	1.21	—	A33206TR-ND	210	204.66	2-1445096-4
	5	19.00	Gold	A34853CT-ND†	2.28	1.37	—	A34853TR-ND	210	232.26	2-1445096-5
	6	22.00	Gold	A34854CT-ND†	2.55	1.53	—	A34854TR-ND	210	259.86	2-1445096-6
	8	28.00	Tin	A33203CT-ND†	2.81	1.69	—	A33203TR-ND	210	286.42	2-1445053-8
	8	28.00	Gold	A34856CT-ND†	2.81	1.69	—	A34856TR-ND	210	286.42	2-1445096-8
Right Angle Thru Hole Header — Single Row, with Plastic Holddowns – RoHS Compliant											
10	2	10.14	Tin	A33207-ND‡	.72	.52	.33	—	—	—	2-1445055-2
	2	10.14	Gold	A34858-ND‡	.72	.52	.33	—	—	—	2-1445098-2
	3	13.14	Tin	A33208-ND‡	.86	.62	.39	—	—	—	2-1445055-3
	3	13.14	Gold	A34859-ND‡	.86	.62	.39	—	—	—	2-1445098-3
	4	16.14	Gold	A34860-ND‡	.99	.72	.45	—	—	—	2-1445098-4
	5	19.14	Tin	A33210-ND‡	1.13	.81	.51	—	—	—	2-1445055-5
	5	19.14	Gold	A34861-ND‡ ***NEW!***	1.13	.81	.51	—	—	—	2-1445098-5
	6	22.14	Tin	A33211-ND‡	1.26	.91	.57	—	—	—	2-1445055-6
	7	25.14	Tin	A34847-ND‡	1.39	1.00	.63	—	—	—	2-1445055-7
	7	25.14	Gold	A34863-ND‡	1.39	1.00	.63	—	—	—	2-1445098-7
	8	28.14	Gold	A34864-ND‡	1.53	1.10	.69	—	—	—	2-1445098-8
	8	28.14	Tin	A34848-ND‡	1.53	1.10	.69	—	—	—	2-1445055-8
	9	31.14	Tin	A34849-ND‡	1.66	1.20	.75	—	—	—	2-1445055-9
Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns – RoHS Compliant											
11	2	10.00	Tin	A33212CT-ND†	1.06	.64	—	A33212TR-ND	215	110.36	2-1445057-2
	2	10.00	Gold	A33217CT-ND†	1.33	.80	—	A33217TR-ND	215	139.11	2-1445100-2
	3	13.00	Gold	A33218CT-ND†	1.58	.95	—	A33218TR-ND	215	164.80	2-1445100-3
	4	16.00	Tin	A33214CT-ND†	2.03	1.23	—	A33214TR-ND	215	212.37	2-1445057-4
	5	19.00	Tin	A33215CT-ND†	1.64	.99	—	A33215TR-ND	215	171.57	2-1445057-5
	6	22.00	Gold	A34868CT-ND†	2.32	1.39	—	A34868TR-ND	215	241.86	2-1445100-6
	7	25.00	Tin	A34850CT-ND†	2.03	1.23	—	A34850TR-ND	215	212.37	2-1445057-7
	8	28.00	Gold	A34870CT-ND†	2.81	1.69	—	A34870TR-ND	215	293.24	2-1445100-8
	9	31.00	Gold	A34871CT-ND†	3.05	1.84	—	A34871TR-ND	215	318.93	2-1445100-9
Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns, Low Profile – RoHS Compliant											
11	2	13.25	Tin	A99181CT-ND†‡	.92	.67	—	A99181TR-ND	215	132.48	2029030-2
	3	16.25	Tin	A99182CT-ND†‡	1.10	.79	—	A99182TR-ND	215	156.98	2029030-3
	4	19.25	Tin	A99183CT-ND†‡	1.78	1.28	—	A99183TR-ND	215	254.95	2029030-4
	2	13.25	Tin	A99184CT-ND†◊	.92	.67	—	A99184TR-ND	215	132.48	2029104-2
	3	16.25	Tin	A99185CT-ND†◊	1.10	.79	—	A99185TR-ND	215	156.98	2029104-3
	4	19.25	Tin	A99186CT-ND†◊	1.78	—	—	A99186TR-ND	215	274.07	2029104-4
Vertical Thru Hole Header — Dual Row – RoHS Compliant											
12	2	7.00	Tin	A33219-ND	.64	.46	.29	—	—	—	3-794630-2
	2	7.00	Gold	A33231-ND	.99	.71	.45	—	—	—	3-794632-2
	4	10.00	Tin	A33220-ND	.74	.54	.34	—	—	—	3-794630-4
	4	10.00	Gold	A34892-ND	1.37	.99	.62	—	—	—	3-794632-4
	6	13.00	Tin	A33221-ND	1.05	.76	.48	—	—	—	3-794630-6
	6	13.00	Gold	A34893-ND	1.74	1.25	.79	—	—	—	3-794632-6
	8	16.00	Tin	A33222-ND	1.34	.97	.61	—	—	—	3-794630-8
	8	16.00	Gold	A32542-ND	2.11	1.52	.95	—	—	—	3-794632-8
	10	19.00	Tin	A33223-ND	1.57	1.13	.71	—	—	—	4-794630-0
	10	19.00	Gold	A33232-ND	2.48	1.78	1.12	—	—	—	4-794632-0
	12	22.00	Gold	A33233-ND	2.84	2.04	1.28	—	—	—	4-794632-2
	14	25.00	Tin	A33225-ND	2.04	1.47	.92	—	—	—	4-794630-4
	14	25.00	Gold	A34906-ND	2.38	1.71	1.08	—	—	—	4-794632-4
	16	28.00	Tin	A33226-ND	2.27	1.63	1.02	—	—	—	4-794630-6
	16	28.00	Gold	A33234-ND	3.57	2.56	1.61	—	—	—	4-794632-6
	18	31.00	Tin	A33227-ND	2.55	1.83	1.15	—	—	—	4-794630-8
	20	34.00	Tin	A33228-ND	2.83	2.04	1.28	—	—	—	5-794630-0
	20	34.00	Gold	A34917-ND	4.47	3.21	2.02	—	—	—	5-794632-0
	22	37.00	Tin	A33229-ND	3.12	2.24	1.41	—	—	—	5-794630-2
	24	40.00	Gold	A34919-ND	5.36	3.85	2.42	—	—	—	5-794632-4
Vertical Surface Mount — Dual Row, Mechanical Holddowns – RoHS Compliant											
13	2	7.00	Tin	A33235CT-ND†	1.40	.85	—	A33235TR-ND	250	170.34	3-794636-2
	4	10.00	Tin	A33236CT-ND†	2.19	1.32	—	A33236TR-ND	175	186.57	3-794636-4
	6	13.00	Tin	A33237CT-ND†	2.86	1.72	—	A33237TR-ND	175	243.46	3-794636-6
	8	16.00	Tin	A33238CT-ND†	2.86	1.72	—	A33238TR-ND	175	242.80	3-794636-8
	10	19.00	Tin	A33239CT-ND†	3.14	1.89	—	A33239TR-ND	175	267.12	4-794636-0
	12	22.00	Tin	A33240CT-ND†	3.43	2.06	—	A33240TR-ND	175	291.66	4-794636-2
	16	28.00	Tin	A33241CT-ND†	4.02	2.42	—	A33241TR-ND	175	341.58	4-794636-6
	18	31.00	Tin	A33242CT-ND†	4.46	2.68	—	—	—	—	4-794636-8
	20	34.00	Tin	A33243CT-ND†	4.83	2.90	—	A33243TR-ND	175	410.20	5-794636-0
	24	40.00	Tin	A33244CT-ND†	5.53	3.33	—	A33244TR-ND	175	470.40	5-794636-4
Vertical Surface Mount Header — Dual Row, with Surface Mount Holddowns – RoHS Compliant											
13	4	10.00	Gold	A33245CT-ND†	2.82	1.70	—	A33245TR-ND	175	239.53	3-794638-4
	6	13.00	Gold	A34895CT-ND†	3.29	1.98	—	A34895TR-ND	175	279.28	3-794638-6
	8	16.00	Gold	A33246CT-ND†	3.29	1.98	—	A33246TR-ND	175	279.28	3-794638-8
	10	19.00	Gold	A33247CT-ND†	4.28	2.57	—	A33247TR-ND	175	364.02	4-794638-0
	12	22.00	Gold	A33248CT-ND†	4.73	2.85	—	—	—	—	4-794638-2
	16	28.00	Gold	A33250CT-ND†	5.66	3.40	—	A33250TR-ND	175	480.81	4-794638-6
	18	31.00	Gold	A34909CT-ND†	6.31	3.79	—	A34909TR-ND	175	536.10	4-794638-8
Right Angle Thru Hole Header — Dual Row – RoHS Compliant											
14	2	7.00	Tin	A33252-ND	.77	.55	.35	—	—	—	3-794618-2
	2	7.00	Gold	A34887-ND	1.21	.87	.55	—	—	—	3-794620-2
	4	10.00	Tin	A33253-ND	1.05	.76	.48	—	—	—	3-794618-4
	4	10.00	Gold	A34888-ND	1.65	1.19	.75	—	—	—	3-794620-4
	6	13.00	Gold	A34889-ND	2.09	1.50	.95	—	—	—	3-794620-6
	8	16.00	Gold	A34890-ND	2.55	1.84	1.15	—	—	—	3-794620-8
	10	19.00	Gold	A34897-ND	2.99	2.15	1.35	—	—	—	4-794620-0
	12	22.00	Gold	A34898-ND	3.44	2.47	—	—	—	—	4-794620-2
	14	25.00	Gold	A34899-ND	3.88	2.78	1.75	—	—	—	4-794620-4
	16	28.00	Gold	A34900-ND	4.33	3.11	1.95	—	—	—	4-794620-6
	18	31.00	Tin	A34896-ND	3.09	2.22	1.40	—	—	—	4-794618-8
	24	40.00	Gold	A33263-ND	6.50	4.66	2.93	—	—	—	5-794620-4
Right Angle Surface Mount Header — Dual Row, with Surface Mount Holddowns – RoHS Compliant											
15	2	7.00	Gold	A33273CT-ND†	2.38	1.44	—	A33273TR-ND	150	173.75	3-794629-2
	4	10.00	Gold	A33274CT-ND†	2.97	1.79	—	A33274TR-ND	150	216.73	3-794629-4
	6	13.00	Tin	A33266CT-ND†	2.57	1.55	—	A33266TR-ND	150	187.47	3-794627-6
	6	13.00	Gold	A33275CT-ND†	3.52	2.12	—	A33275TR-ND	150	256.61	3-794629-6
	8	16.00	Tin	A33267CT-ND†	3.01	1.81	—	A33267TR-ND	150	218.94	3-794627-8
	8	16.00	Gold	A34891CT-ND†	4.18	2.51	—	A34891TR-ND	150	304.51	3-794629-8
	10	19.00	Tin	A33268CT-ND†	3.36	2.02	—	A33268TR-ND	150	244.99	4-794627-0
	12	22.00	Tin	A33269CT-ND†	3.71	2.23	—	A33269TR-ND	150	270.64	4-794627-2
	12	22.00	Gold	A33276CT-ND†	5.29	3.18	—	A33276TR-ND	150	385.57	4-794629-2
	14	25.00	Gold	A33277CT-ND†	5.85	3.51	—	A33277TR-ND	150	425.85	4-794629-4
	16	28.00	Tin	A33270CT-ND†	4.42	2.66	—	A33270TR-ND	150	322.24	4-794627-6

† Cut Tape ‡ Black ◊ Natural

Description	Digi-Key Part No.	Pricing 1	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Receptacle Contacts, Crimp, Snap-In								
Tin, 20-24AWG	—	—	—	—	A30305TR-ND◆	15,000	22.24/M	794606-1
Tin, 20-24AWG	A30305-ND◆	.12	3.27	25.59	—	—	—	794610-1
Gold, 20-24AWG	A30306-ND	.14	6.82	53.39	—	—	—	794610-3
Gold, 20-24AWG	—	—	—	—	A32523TR-ND◆	15,000	47.00/M	1-794606-2
Gold, 20-24AWG	A32523-ND◆	.16	7.75	60.63	—	—	—	1-794610-2
Tin, 26-30AWG	—	—	—	—	A30309TR-ND◆	15,000	22.24/M	794607-1
Tin, 26-30AWG	A30309-ND◆	.12	3.27	25.59	—	—	—	794611-1
Gold, 26-30AWG	—	—	—	—	A33279TR-ND◆	15,000	47.00/M	1-794607-2
Gold, 26-30AWG	A33279-ND◆	.16	7.75	60.63	—	—	—	1-794611-2
Plug Contacts, Crimp Snap								
Tin, 20-24AWG	—	—	—	—	A30307TR-ND◆	10,000	22.24/M	1-794608-0
Tin, 20-24AWG	A30307-ND◆	.15	4.20	32.85	—	—	—	1-794612-0
Gold, 20-24AWG	—	—	—	—	A30308TR-ND	10,000	52.20/M	794608-3
Gold, 20-24AWG	A30308-ND	.16	7.85	61.38	—	—	—	794612-3
Gold, 20-24AWG	—	—	—	—	A33280TR-ND◆	10,000	58.99/M	1-794608-2
Gold, 20-24AWG	A33280-ND◆	.16	7.62	59.62	—	—	—	1-794612-2
Tin, 26-30AWG	A33281-ND◆	.09	4.20	32.85	—	—	—	1-794613-0
Gold, 26-30AWG	—	—	—	—	A33282TR-ND◆	10,000	58.99/M	1-794609-2
Gold, 26-30AWG	A33282-ND◆	.17	8.30	64.94	—	—	—	1-794613-2
Certi-Crimp Tool, 20-24AWG	A30498-ND	603.45/1			—	—	—	91501-1
Certi-Crimp II Tool, 26-30AWG	A30313-ND	603.45/1			—	—	—	91502-1

◆ *RoHS Compliant*

AMP Mini-Universal MATE-N-LOK® and Sealed Mini-Universal MATE-N-LOK® Connectors

Mini-Universal MATE-N-LOK: Features: • Compact • Contacts are fully protected in the housings. Both pins and sockets can be used on the power supply wiring • Fully polarized to provide proper plug-to-cap mating incorporating a positive locking mechanism to prevent accidental disengagement of mated connectors. Also facilitates panel mounting • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL, Inc File No. E28476 • Certified by Canadian Standards Association File No. LR 38721 • Passed test by VDE under their Registration Number 3476/Continuous Surveillance. **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC between adjacent circuits • Insulation Resistance: 1000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Sealed Mini-Universal MATE-N-LOK: Features: • Compact • Wire-to-Wire and Wire-to-Board connector system that provides the advantages of using a proven product technology in a splash-proof environment. • Mates with all standard Mini-Universal MATE-N-LOCK connector housings • Uses existing Mini-Universal MATE-N-LOK application toolings and contacts • Product has been tested to IP Level 5/7 for .040" ~ .083" [1.02 ~ 2.11mm] insulation diameter wire **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC • Insulation Resistance: 1000MΩ maximum between adjacent circuits • Voltage Rating: 600VAC or DC • Current: 11.2A maximum • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Fig. 1A

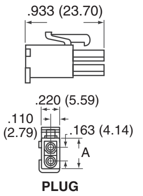

Fig. 1B

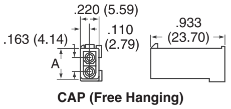

Fig. 1C

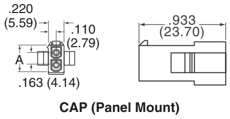

Fig. 2

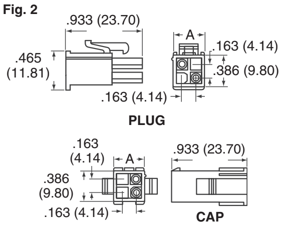

Fig. 3

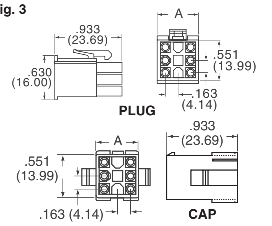

Fig. 4

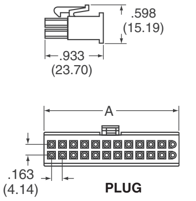

Mini-Universal MATE-N-LOK Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL 94V-0 White Nylon							
1A	1	Plug In-Line	—	A97680-ND	.24	.16	172164-1
	2	Plug In-Line	.386 (9.80)	A25587-ND	.50	.32	172165-1
	3	Plug In-Line	.551 (14.00)	A25588-ND	.55	.36	172166-1
1B	1	Cap In-Line	—	A97679-ND	.27	.18	172156-1
	2	Cap In-Line	.386 (9.80)	A25652-ND	.51	.33	172233-1
	3	Cap In-Line	.551 (14.00)	A25653-ND	.57	.37	172234-1
1C	2	Cap In-Line	.386 (9.80)	A25697-ND	.51	.33	172157-1
	3	Cap In-Line	.551 (14.00)	A25698-ND	.57	.37	172158-1
2	4	Plug Dual Row	.386 (9.80)	A25571-ND	.57	.37	172167-1
	4	Cap Dual Row	.386 (9.80)	A25572-ND	.60	.39	172159-1
	6	Plug Dual Row	.551 (14.00)	A25573-ND	.76	.49	172168-1
	6	Cap Dual Row	.551 (14.00)	A25574-ND	.78	.50	172160-1
3	9	Plug Matrix	.551 (14.00)	A25702-ND	.83	.53	172169-1
	9	Cap Matrix	.551 (14.00)	A25699-ND	.82	.53	172161-1
	12	Plug Matrix	.716 (18.19)	A25703-ND	.95	.61	172170-1
	12	Cap Matrix	.716 (18.19)	A25700-ND	.81	.53	172162-1
	15	Plug Matrix	.882 (22.40)	A25704-ND	1.31	.85	172171-1
	15	Cap Matrix	.882 (22.40)	A25701-ND	1.04	.67	172163-1
4	8	Plug Dual Row	.714 (18.14)	A25575-ND	.52	.34	770579-1
	10	Plug Dual Row	.877 (22.28)	A25576-ND	.55	.35	770580-1
	12	Plug Dual Row	1.040 (26.42)	A25577-ND	.58	.38	770581-1
	14	Plug Dual Row	1.203 (30.56)	A25578-ND	1.00	.65	770582-1
	16	Plug Dual Row	1.366 (34.70)	A25579-ND	.91	.59	770583-1
	18	Plug Dual Row	1.529 (38.84)	A25580-ND	1.17	.76	770584-1
	20	Plug Dual Row	1.692 (42.98)	A25581-ND	1.30	.84	770585-1
	22	Plug Dual Row	1.855 (47.12)	A25582-ND	1.43	.92	770586-1
	24	Plug Dual Row	2.018 (51.26)	A25583-ND	1.56	1.01	770587-1
UL 94V-2 Natural Nylon							
1A	1	Plug In-Line	—	A97673-ND	.15	.10	172335-1
	2	Plug In-Line	.386 (9.8)	A97683-ND	.29	.19	172336-1
1B	1	Cap In-Line	—	A97672-ND	.14	.09	172327-1
	2	Cap In-Line	.386 (9.8)	A97684-ND	.30	.20	172343-1
1C	2	Cap In-Line	.386 (9.8)	A97681-ND	.27	.18	172328-1
2	6	Plug Dual Row	.551 (14)	A97674-ND	.41	.27	172339-1
	6	Cap Dual Row	.551 (14)	A97682-ND	.44	.29	172331-1

Sealed Mini-Universal MATE-N-LOK Connectors

Dimensions may vary slightly - see the Digi-Key® Website for manufacturer's drawings.

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL 94V-0 White Nylon							
1A	2	Plug In-Line	.386 (9.80)	A30709-ND	.58	.38	794894-1
1C	2	Cap In-Line	.386 (9.80)	A30714-ND	.69	.45	794896-1
2	4	Plug Dual Row	.486 (12.34)	A30710-ND	.57	.37	794805-1
	4	Cap Dual Row	.386 (9.80)	A30715-ND	.79	.51	794939-1
	6	Plug Dual Row	.651 (16.54)	A30711-ND	.98	.63	794895-1
	6	Cap Dual Row	.386 (9.80)	A30716-ND	1.06	.68	794940-1
	8	Plug Dual Row	.814 (20.68)	A30712-ND	.92	.60	794821-1
	8	Cap Dual Row	.714 (8.14)	A30717-ND	1.01	.65	794941-1
	10	Plug Dual Row	.977 (24.82)	A30713-ND	1.00	.65	794781-1
	10	Cap Dual Row	.877 (22.28)	A30718-ND	1.28	.82	794942-1
	16	Plug Dual Row	1.466 (37.24)	A32587-ND	1.20	.78	794824-1
—	2	Interface Seal	—	A30719-ND	.46	.31	794772-2
	4	Interface Seal	—	A30720-ND	.48	.32	794772-4
	6	Interface Seal	—	A30721-ND	.52	.34	794772-6
	8	Interface Seal	—	A30722-ND	.55	.36	794772-8
	10	Interface Seal	—	A30723-ND	.56	.37	1-794772-0
	16	Interface Seal	—	A32580-ND	1.01	.67	1-1586362-6
	—	Cavity Plug Seal	—	A30724-ND	.31	.21	794995-1
	—	Cavity Wire Seal	—	A30725-ND	.23	.16	794758-1
	2	Gang Seal	—	A32581-ND	1.56	1.03	1586359-2
	4	Gang Seal	—	A32582-ND	2.28	1.50	1586359-4
	6	Gang Seal	—	A32583-ND	2.62	1.72	1586359-6
	8	Gang Seal	—	A32584-ND	3.15	2.07	1586359-8
	10	Gang Seal	—	A32585-ND	3.67	2.41	1-1586359-0
	16	Gang Seal	—	A32586-ND	5.37	3.52	1-1586359-6

Mini-Universal MATE-N-LOK® Contacts

Specifications: • Material: Brass • Stock Thickness: .008" (.20mm) **Contact Plating:** A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

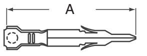

Socket Connector

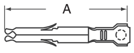

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.
					1	100			500	1,000		Qty.	Pricing	
Pin Contacts — Diameter .039" (0.99mm)														
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	.670 (17)	A25667-ND◆	.30	10.13	794059-1	A25667CT-ND◆	—	58.98	A25667TR-ND◆	10,000	31.85/M	770835-1
	.035 ~ .050 (.889 ~ 1.27)	B	.670 (17)	A25671-ND	.57	36.43	794059-3	—	—	—	—	—	—	—
26 ~ 22	.047 ~ .069 (1.2 ~ 1.75)	A	.670 (17)	A25675-ND◆	.26	8.84	770985-1	A25675CT-ND◆	—	58.98	A25675TR-ND◆	7,000	35.39/M	770901-1
	.047 ~ .069 (1.2 ~ 1.75)	B	.670 (17)	A97676-ND◆	1.16	39.41	170363-3	—	—	—	—	—	—	—
	.047 ~ .069 (1.2 ~ 1.75)	B	.670 (17)	—	—	—	—	A97675CT-ND◆	185.28	336.88	A97675TR-ND◆	6,000	195.39/M	170359-3
	.047 ~ .069 (1.2 ~ 1.75)	B	.670 (17)	A97685-ND◆	.10	3.32	170359-1	—	—	—	—	—	—	—
22 ~ 18	.059 ~ .095 (1.5 ~ 2.4)	B	.670 (17)	A97677-ND◆	1.16	39.41	170364-3	—	—	—	—	—	—	—
	.059 ~ .095 (1.5 ~ 2.4)	A	.670 (17)	A97686-ND◆	.12	7.39	170364-1	—	—	—	A97686TR-ND◆	4,000	30.16/M	170360-1
22 ~ 18 or 22(2)	.059 ~ .110 or .133 max. (1.50 ~ 2.79 or 3.38)	A	.670 (17)	A25683-ND◆	.30	10.13	770987-1	A25683CT-ND◆	37.07	67.40	A25683TR-ND◆	4,500	40.44/M	770903-1
20 ~ 16 or 20(2)	.079 ~ .126 or .094(2) (2.01 ~ 3.20 or 2.79)	A	.689 (17.50)	A25691-ND◆	.31	6.66	171638-1	A25691CT-ND◆	—	54.40	A25691TR-ND◆	4,000	32.64/M	171636-1
16	.130 max. (3.3)	A	.634 (16.10)	—	—	—	—	A32599CT-ND◆	75.90	112.98	A32599TR-ND◆	7,000	86.91/M	1586537-1
Socket Contacts														
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	.659 (16.75)	A25668-ND◆	.26	8.84	794058-1	A25668CT-ND◆	—	58.98	A25668TR-ND◆	10,000	31.85/M	770834-1
	.035 ~ .050 (.889 ~ 1.27)	B	.659 (16.75)	A25672-ND	.50	31.78	794058-3	—	—	—	—	—	—	—
26 ~ 22	.047 ~ .069 (1.2 ~ 1.75)	A	.659 (16.75)	A25676-ND◆	.30	10.13	770986-1	A25676CT-ND◆	—	58.98	A25676TR-ND◆	7,000	35.39/M	770902-1
	.047 ~ .069 (1.2 ~ 1.75)	B	.659 (16.75)	A97678-ND◆	1.16	39.41	170365-1	—	—	—	—	—	—	—
	.047 ~ .069 (1.2 ~ 1.75)	B	.659 (16.75)	—	—	—	—	A97687CT-ND◆	26.85	48.83	A97687TR-ND◆	6,000	28.32/M	170361-1
	.047 ~ .069 (1.2 ~ 1.75)	B	.659 (16.75)	—	—	—	—	A97688CT-ND◆	214.91	390.75	A97688TR-ND◆	6,000	226.64/M	170361-3
22 ~ 18	.059 ~ .110 or .133 max.	A	.659 (16.75)	A25684-ND◆	.26	8.84	770988-1	A25684CT-ND◆	37.07	67.40	A25684TR-ND◆	4,500	40.44/M	770904-1
	.059 ~ .095 or .134 max.	B	.659 (16.75)	A97690-ND◆	1.16	39.41	170366-3	—	—	—	—	—	—	—
	.059 ~ .095 or .134 max.	B	.659 (16.75)	—	—	—	—	A97689CT-ND◆	165.32	300.58	A97689TR-ND◆	4,000	174.34/M	170362-3
20 ~ 16 or 20(2)	.079 ~ .126 (2.01 ~ 3.20 or 2.79)	A	.689 (17.50)	A25692-ND◆	.32	6.56	171639-1	A25692CT-ND◆	—	54.73	A25692TR-ND◆	4,000	32.84/M	171637-1
16	.130 max. (3.3)	A	.572 (14.53)	—	—	—	—	A32601CT-ND◆	77.34	115.13	A32601TR-ND◆	7,000	88.56/M	1586538-1

◆ RoHS Compliant

(Continued)

AMP Mini-Universal MATE-N-LOK® and Sealed Mini-Universal MATE-N-LOK® Connectors *(Cont.)*

Tools for Mini-Universal MATE-N-LOK®

Description	Digi-Key Part No.	Price Each	AMP Part No.
Keying Plugs and Tools for Mini-Universal MATE-N-LOK			
Keying Plug 94V-0	A25693-ND◆	.33	174670-1
Contact Extraction Tool	A25695-ND	18.22	189727-1
Contact Insertion Tool	A1444-ND	16.14	455830-1
PRO-CRIMPER III Hand Tool, w/Die, 30 ~ 26AWG	A9819-ND	259.20	90870-1
PRO-CRIMPER III Hand Tool, w/Die, 26 ~ 22AWG	A25584-ND	164.70	90758-1
PRO-CRIMPER III Hand Tool, w/Die, 22 ~ 18 or 22(2)AWG	A25585-ND	164.70	90759-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
PRO-CRIMPER III Hand Tool, w/Die, 20 ~ 16 or 20(2)AWG	A25586-ND	164.70	90760-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
Die Set for PRO-CRIMPER III 30 ~ 26AWG	A9956-ND	207.90	90870-2
Die Set for PRO-CRIMPER III 26 ~ 22AWG	A30039-ND	90.72	90758-2
Die Set for PRO-CRIMPER III 22 ~ 18AWG	A30040-ND	90.72	90759-2

◆ ***RoHS Compliant***

AMP Mini-Universal MATE-N-LOK2® Connectors

Mini-Universal MATE-N-LOK2: Features: • Pins and sockets can be intermixed in the same housing although they cannot be intermixed with standard Mini Universal Mate-N-Lok housings • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL Inc. File No. E28476

Performance Characteristics: • Dielectric Withstanding Voltage: 1500VAC or DC between adjacent circuits at sea level • Insulation Resistance: 1,000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 20 pounds minimum per contact • Durability: 25 cycles, mating and unmating • Current Rating: Up to 10.5 amps per circuit: 2 position

RoHS COMPLIANT

Mini-Universal MATE-N-LOK2 Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14mm) Centerline Housing - Free Hanging, UL94V-0 White Nylon							
1	2	Plug, In-Line	—	A25654-ND	.72	.47	794184-1
	2	Cap, In-Line	—	A25655-ND	.69	.45	794185-1
	3	Plug, In-Line	—	A25656-ND	.69	.45	794186-1
	3	Cap, In-Line	—	A25657-ND	.77	.50	794187-1
2	4	Plug, Dual Row	.571 (14.50)	A25658-ND	.77	.50	794188-1
	4	Cap, Dual Row	.571 (14.50)	A25659-ND	.71	.46	794189-1
	6	Plug, Dual Row	.736 (18.70)	A25660-ND	.86	.56	794190-1
	6	Cap, Dual Row	.736 (18.70)	A25661-ND	1.85	1.19	794191-1
3	8	Plug, Dual Row	.899 (22.24)	A25662-ND	1.31	.84	794192-1
	8	Cap, Dual Row	.899 (22.24)	A25705-ND	1.14	.74	794193-1
	10	Plug, Dual Row	1.062 (26.97)	A25663-ND	1.08	.70	794196-1
	10	Cap, Dual Row	1.062 (26.97)	A25708-ND	1.11	.72	794197-1
	12	Plug, Dual Row	1.225 (31.12)	A25711-ND	1.10	.71	794198-1
	12	Cap, Dual Row	1.225 (31.12)	A25712-ND	1.01	.65	794199-1
	14	Plug, Dual Row	1.388 (35.26)	A25664-ND	1.14	.73	794202-1
	14	Cap, Dual Row	1.388 (35.26)	A25713-ND	1.13	.73	794203-1
	16	Plug, Dual Row	1.551 (39.40)	A25716-ND	1.45	.94	794206-1
	16	Cap, Dual Row	1.551 (39.40)	A25717-ND	1.35	.87	794207-1
	18	Plug, Dual Row	1.714 (43.54)	A25718-ND	1.63	1.05	794208-1
	18	Cap, Dual Row	1.714 (43.54)	A25719-ND	1.67	1.08	794209-1
	20	Plug, Dual Row	1.877 (47.68)	A25720-ND	1.74	1.12	794210-1
	20	Cap, Dual Row	1.877 (47.68)	A25721-ND	1.86	1.20	794211-1
	22	Plug, Dual Row	2.040 (51.82)	A25722-ND	2.08	1.34	794212-1
	22	Cap, Dual Row	2.040 (51.82)	A25723-ND	2.05	1.32	794213-1
	24	Plug, Dual Row	2.203 (55.96)	A25724-ND	1.90	1.23	794214-1
	24	Cap, Dual Row	2.203 (55.96)	A25725-ND	2.55	1.64	794215-1
4	9	Plug, Matrix	.736 (18.69)	A25706-ND	2.05	1.32	794194-1
	9	Cap, Matrix	.736 (18.69)	A25707-ND	1.94	1.25	794195-1
	12	Plug, Matrix	.901 (22.89)	A25709-ND	1.51	.97	794200-1
	12	Cap, Matrix	.901 (22.89)	A25710-ND	2.64	1.70	794201-1
	15	Plug, Matrix	1.067 (27.10)	A25714-ND	1.87	1.20	794204-1
	15	Cap, Matrix	1.067 (27.10)	A25715-ND	1.85	1.19	794205-1

Fig. 1

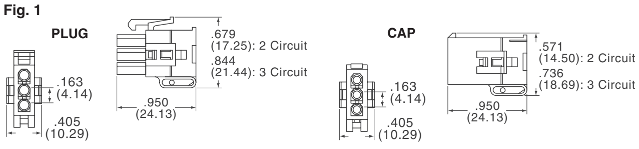

Fig. 2

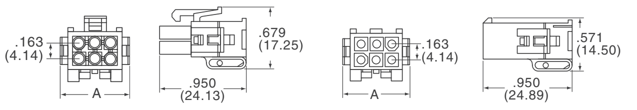

Fig. 3

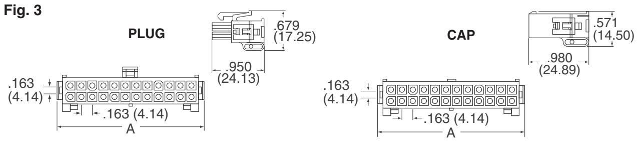

Fig. 4

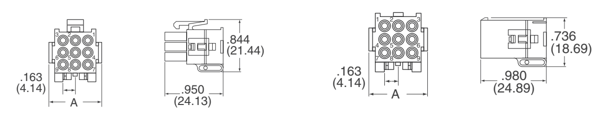

Mini-Universal MATE-N-LOK2® Contacts

Specifications: • Material: Brass • Stock Thickness: .010" (.25mm) **Contact Plating:** A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 100	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)						
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	A28800-ND◆	.30	10.28	794224-1
	.035 ~ .050 (.889 ~ 1.27)	B	A33326-ND◆	.54	34.59	1-794224-0
26 ~ 22	.047 ~ .069 (1.19 ~ 1.75)	A	A28802-ND◆	.30	10.28	794226-1
	.047 ~ .069 (1.19 ~ 1.75)	B	A28803-ND	.58	36.96	794226-3
	.047 ~ .069 (1.19 ~ 1.75)	B	A33327-ND◆	.54	34.59	1-794226-0
22 ~ 18	.059 ~ .110 (1.50 ~ 2.79)	A	A28804-ND◆	.26	8.97	794228-1
	.059 ~ .110 (1.50 ~ 2.79)	B	A32446-ND◆	.54	34.59	1-794228-0
20 ~ 16	.079 ~ .126 (2.01 ~ 3.20)	A	A28806-ND◆	.51	21.87	794230-1
	.079 ~ .126 (2.01 ~ 3.20)	B	A28807-ND	.58	36.96	794230-3
	.079 ~ .126 (2.01 ~ 3.20)	B	A34924-ND◆	.54	34.59	1-794230-0
Socket Contacts — RoHS Compliant						
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	A28808-ND	.30	10.28	794225-1
	.035 ~ .050 (.889 ~ 1.27)	B	A34923-ND	.54	34.59	1-794225-0

Pin Connector

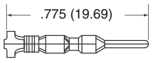

Socket Connector

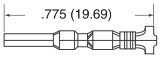

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 100	AMP Part No.
26 ~ 22	.047 ~ .069 (1.19 ~ 1.75)	A	A28810-ND◆	.30	10.28	794227-1
	.047 ~ .069 (1.19 ~ 1.75)	B	A28811-ND	.58	36.96	794227-3
	.047 ~ .069 (1.19 ~ 1.75)	B	A33328-ND◆	.54	34.59	1-794227-0
22 ~ 18	.059 ~ .110 (1.50 ~ 2.79)	A	A28812-ND◆	.30	10.28	794229-1
	.059 ~ .110 (1.50 ~ 2.79)	B	A28813-ND	.58	36.96	794229-3
	.059 ~ .110 (1.50 ~ 2.79)	B	A33329-ND◆	.54	34.59	1-794229-0
20 ~ 16	.079 ~ .126 (2.01 ~ 3.20)	A	A28814-ND◆	.51	21.87	794231-1
	.079 ~ .126 (2.01 ~ 3.20)	B	A28815-ND	.50	32.24	794231-3
	.079 ~ .126 (2.01 ~ 3.20)	B	A32447-ND◆	.54	34.59	1-794231-0

◆ ***RoHS Compliant***

Tools for Mini-Universal MATE-N-LOK2®

Description	Digi-Key Part No.	Price Each	AMP Part No.
PRO-CRIMPER III with Die Set, 30 ~ 26 AWG	A9819-ND	259.20	90870-1
PRO-CRIMPER III with Die Set, 26 ~ 22 AWG	A25584-ND	164.70	90758-1
PRO-CRIMPER III with Die Set, 22 ~ 18 AWG	A25585-ND	164.70	90759-1
PRO-CRIMPER III with Die Set, 20 ~ 16 AWG	A30726-ND	400.95	58707-1
Certi-Crimp Hand Tool, 22 ~ 18 AWG	A9916-ND	603.45	91522-1
Straight Action Hand Tool, 26 ~ 22 AWG	A32490-ND	603.45	91529-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Straight Action Hand Tool, 20 ~ 16 AWG	A32491-ND	603.45	91594-1
Die Set, 30 ~ 24 AWG (use with A9996-ND)	A9956-ND	207.90	90870-2
Die Set, 26 ~ 22 AWG (use with A9996-ND)	A30039-ND	90.72	90758-2
Die Set, 22 ~ 18 AWG (use with A9996-ND)	A30040-ND	90.72	90759-2
PRO-CRIMPER III Hand Tool (without Die Set)	A9996-ND	45.36	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1

AMP Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Headers

Specifications:
• Contact Material: Brass • Solder Tail Diameter: .039" (1.00mm) • Housing: UL94V-0 White Nylon **Contact Plating:** A: Tin-Lead Finish- Plated with .000150" (.00381mm) minimum tin-lead over .000050" (.00127mm) minimum nickel underplate on entire contact. B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Fig. 1

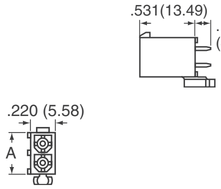

Fig. 2

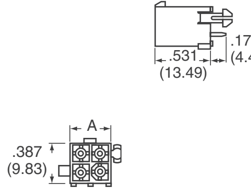

Fig. 3

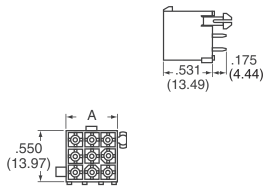

Fig. 4

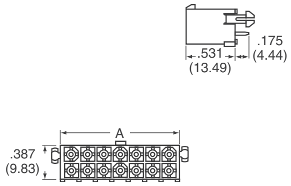

Fig. 5

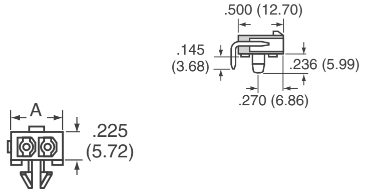

Fig. 6

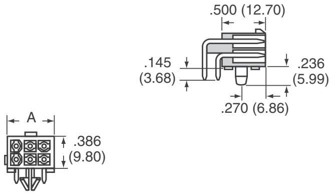

Fig. 7

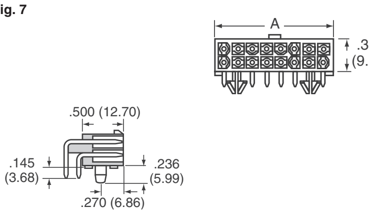

Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14) Centerline Vertical PC Board Pin Headers, w/Drain Holes (unless noted)								
1	2	In-Line	A	.387 (9.83)	A32448-ND◆	.91	.58	1-770166-0
	2	In-Line	A	.387 (9.83)	A25590-ND†	.85	.62	770872-1
	2	In-Line	A	.387 (9.83)	A32449-ND†◆	.80	.51	1-770872-0
	2	In-Line	B	.387 (9.83)	A32450-ND◆	1.45	.92	1-770166-1
	2	In-Line	B	.387 (9.83)	A33330-ND†◆	1.61	1.16	1-770872-1
	3	In-Line	A	.550 (13.97)	A32451-ND◆	.98	.63	1-770170-0
	3	In-Line	A	.550 (13.97)	A32452-ND†◆	.98	.63	1-770873-0
	3	In-Line	B	.550 (13.97)	A25595-ND	2.36	1.70	770170-2
	3	In-Line	B	.550 (13.97)	A33331-ND◆	2.21	1.59	1-770170-1
	3	In-Line	B	.550 (13.97)	A25596-ND†	2.38	1.71	770873-2
	3	In-Line	B	.550 (13.97)	A33332-ND†◆	2.23	1.60	1-770873-1
2	4	Dual Row	A	.387 (9.83)	A32453-ND◆	1.27	.81	1-770174-0
	4	Dual Row	A	.387 (9.83)	A32454-ND†◆	1.21	.77	1-770874-0
	4	Dual Row	B	.387 (9.83)	A32455-ND◆	1.98	1.26	1-770174-1
	4	Dual Row	B	.387 (9.83)	A25601-ND†	2.90	2.08	770874-2
	4	Dual Row	B	.387 (9.83)	A33333-ND†◆	2.71	1.95	1-770874-1
	6	Dual Row	A	.550 (13.97)	A32456-ND◆	1.30	.83	1-770178-0
	6	Dual Row	A	.550 (13.97)	A32589-ND◆	1.54	1.11	1-770875-0
	6	Dual Row	B	.550 (13.97)	A32457-ND◆	2.82	1.79	1-770178-1
	6	Dual Row	B	.550 (13.97)	A32590-ND◆	3.87	2.78	1-770875-1
	8	Dual Row	A	.713 (18.11)	A32591-ND◆	1.63	1.18	1-794073-0
	8	Dual Row	B	.713 (18.11)	A32592-ND◆	5.00	3.59	1-794073-1
	8	Dual Row	A	.713 (18.11)	A32458-ND◆	2.08	1.32	1-794065-0
	8	Dual Row	B	.713 (18.11)	A32459-ND◆	3.66	2.32	1-794065-1
	10	Dual Row	A	.877 (22.28)	A32460-ND◆	2.34	1.49	1-770743-0
	10	Dual Row	A	.877 (22.28)	A32593-ND◆	2.08	1.49	1-770858-0
	10	Dual Row	B	.877 (22.28)	A32461-ND◆	4.01	2.54	1-770743-1
	10	Dual Row	B	.877 (22.28)	A32594-ND◆	6.07	4.35	1-770858-1
	12	Dual Row	A	1.039 (26.39)	A25610-ND	2.39	1.72	794066-1
	12	Dual Row	A	1.039 (26.39)	A33334-ND◆	2.24	1.61	1-794066-0
	12	Dual Row	A	1.039 (26.39)	A32462-ND†◆	1.82	1.16	1-770621-0
	12	Dual Row	B	1.039 (26.39)	A25612-ND	5.65	4.05	794066-2
	12	Dual Row	B	1.039 (26.39)	A33335-ND◆	5.29	3.79	1-794066-1
3	9	Matrix	A	.551 (14.00)	A32463-ND◆	2.00	1.27	1-770182-0
	9	Matrix	B	.551 (14.00)	A32464-ND◆	5.58	3.54	1-770182-1
	12	Matrix	A	.713 (18.11)	A32465-ND◆	2.46	1.56	1-770186-0
	12	Matrix	B	.713 (18.11)	A32466-ND◆	7.21	4.57	1-770186-1
	15	Matrix	A	.877 (22.28)	A32467-ND◆	2.96	1.88	1-770190-0
	15	Matrix	B	.877 (22.28)	A33336-ND◆	8.94	6.41	1-770190-1
4	14	Dual Row	A	1.202 (30.53)	A32468-ND◆	2.27	1.45	1-794067-0
	14	Dual Row	A	1.202 (30.53)	A32597-ND◆	2.63	1.89	1-794074-0
	14	Dual Row	B	1.202 (30.53)	A25616-ND	6.59	4.73	794067-2
	14	Dual Row	B	1.202 (30.53)	A34925-ND◆	6.17	4.43	1-794067-1
	14	Dual Row	B	1.202 (30.53)	A32598-ND◆	8.26	5.92	1-794074-1
	16	Dual Row	A	1.365 (34.67)	A32469-ND◆	2.53	1.61	1-794068-0
	16	Dual Row	A	1.365 (34.67)	A32595-ND◆	2.89	2.08	1-794075-0
	16	Dual Row	B	1.365 (34.67)	A25620-ND	7.30	5.24	794068-2
	16	Dual Row	B	1.365 (34.67)	A33337-ND◆	6.83	4.90	1-794068-1
	16	Dual Row	B	1.365 (34.67)	A32596-ND◆	9.35	6.71	1-794075-1
	18	Dual Row	A	1.528 (38.81)	A33338-ND◆	2.84	2.04	1-794069-0
	18	Dual Row	B	1.528 (38.81)	A25622-ND	8.29	5.94	794069-2
	18	Dual Row	B	1.528 (38.81)	A33339-ND◆	7.75	5.56	1-794069-1
	20	Dual Row	A	1.691 (42.95)	A25623-ND	3.37	2.42	794070-1
	20	Dual Row	B	1.691 (42.95)	A33340-ND◆	3.16	2.27	1-794070-0
	20	Dual Row	B	1.691 (42.95)	A25624-ND	9.23	6.62	794070-2
	20	Dual Row	B	1.691 (42.95)	A33341-ND◆	8.64	6.19	1-794070-1
	22	Dual Row	A	1.854 (47.09)	A33342-ND◆	3.50	2.52	1-794071-0
	22	Dual Row	B	1.854 (47.09)	A25626-ND	11.25	8.07	794071-2
	22	Dual Row	B	1.854 (47.09)	A33343-ND◆	10.53	7.55	1-794071-1
	24	Dual Row	A	2.017 (51.23)	A32470-ND◆	3.85	2.44	1-794072-0
	24	Dual Row	B	2.017 (51.23)	A25628-ND	12.43	8.91	794072-2
	24	Dual Row	B	2.017 (51.23)	A33344-ND◆	11.63	8.34	1-794072-1
.163 (4.14) Centerline PC Board Pin Headers, Right Angle with Board Lock								
5	2	In-Line	A	.388 (9.86)	A32471-ND◆	.97	.62	1-770966-0
	2	In-Line	B	.388 (9.86)	A32472-ND◆	2.34	1.49	1-770966-1
	3	In-Line	A	.551 (14.00)	A32473-ND◆	1.38	.88	1-770967-0
	3	In-Line	B	.551 (14.00)	A25632-ND	4.13	2.97	770967-2
	3	In-Line	B	.551 (14.00)	A33345-ND◆	3.87	2.78	1-770967-1
6	4	Dual Row	A	.388 (9.86)	A32474-ND◆	1.28	.82	1-770968-0
	4	Dual Row	B	.388 (9.86)	A25634-ND	4.69	3.36	770968-2
	4	Dual Row	B	.388 (9.86)	A33346-ND◆	3.95	2.83	1-770968-1
	6	Dual Row	A	.551 (14.00)	A32475-ND◆	1.64	1.04	1-770969-0
	6	Dual Row	B	.551 (14.00)	A32476-ND◆	4.82	3.06	1-770969-1
	8	Dual Row	A	.714 (18.14)	A32477-ND◆	1.95	1.24	1-770970-0
	8	Dual Row	B	.714 (18.14)	A32478-ND◆	6.35	4.03	1-770970-1
	10	Dual Row	A	.877 (22.28)	A32479-ND◆	2.27	1.45	1-770971-0
	10	Dual Row	B	.877 (22.28)	A25640-ND	9.37	6.72	770971-2
	10	Dual Row	B	.877 (22.28)	A33347-ND◆	7.89	5.66	1-770971-1
	12	Dual Row	A	1.040 (26.42)	A32480-ND◆	2.60	1.65	1-770972-0
	12	Dual Row	B	1.040 (26.42)	A32481-ND◆	8.95	5.67	1-770972-1
7	14	Dual Row	A	1.203 (30.56)	A32482-ND◆	5.37	3.40	1-770973-0
	14	Dual Row	B	1.203 (30.56)	A32483-ND◆	10.95	6.94	1-770973-1
	16	Dual Row	A	1.366 (34.70)	A32484-ND◆	3.00	1.91	1-770974-0
	16	Dual Row	B	1.366 (34.70)	A25646-ND	14.83	10.63	770974-2
	16	Dual Row	B	1.366 (34.70)	A33348-ND◆	12.49	8.95	1-770974-1
	18	Dual Row	A	1.529 (38.84)	A32485-ND◆	4.32	2.74	1-794105-0
	20	Dual Row	A	1.692 (42.98)	A25648-ND	4.34	3.12	794106-1
	20	Dual Row	A	1.692 (42.98)	A33349-ND◆	4.07	2.92	1-794106-0
	20	Dual Row	B	1.692 (42.98)	A25649-ND	18.97	13.60	794106-2
	22	Dual Row	A	1.855 (47.12)	A25696-ND	5.65	4.05	794107-1
	22	Dual Row	A	1.855 (47.12)	A33351-ND◆	5.29	3.79	1-794107-0
	24	Dual Row	A	2.018 (51.26)	A32486-ND◆	5.77	3.66	1-794108-0
	24	Dual Row	B	2.018 (51.26)	A25651-ND	22.77	16.32	794108-2
	24	Dual Row	B	2.018 (51.26)	A33352-ND◆	19.17	13.75	1-794108-1

† These part numbers are without drain holes. ◆ ***RoHS Compliant***

AMP Universal MATE-N-LOK® Connectors - Soft Shell

Dim. in inch (mm)

Fig. 1

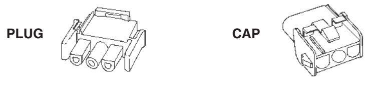

• Pins and sockets can be intermixed in the same housing • Positive polarization • Pin or socket contact can be hot • Positive locking housings • Removable, crimp snap-in contacts • Low contact mating force • Dual locking lances provide optimum contact stability • Panel-mount or free-hanging • Harness to PC board capability using pin or socket header assemblies **Features:** • Rated to 600V • Insulation capacity to .200" (5.08 mm) diameter • Contacts are on .250" (6.35 mm) centerline spacing

Fig. 2

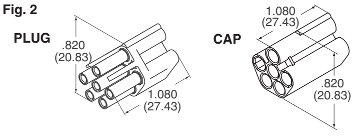

• Circular design allows the connector to pass through 7/8 inch knock-out holes in electrical fixtures and boxes **Features:** • Voltage: 600VAC or DC • Current: 20A maximum per UL-1977

Fig. 3

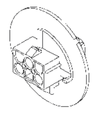

• Special flanged universal MATE-N-LOK cap housing **Features:** • Voltage: 600V • Current: 15.5A maximum

Fig. 4

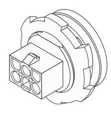

• Sealed Bulkhead Connector **Features:** • Locknut: Metal • Housing: Nylon, Flame Retardant, UL94-VO • O-Ring: Neoprene

Fig. 5 — Test Connectors

• Mating Connectors: Housings and headers having the same number of circuits • Pins and sockets can be intermixed in the same housing • Test connector housings are of the same configuration as standard housings • Test probes have 5A max. current rating • 1,000,000 cycles

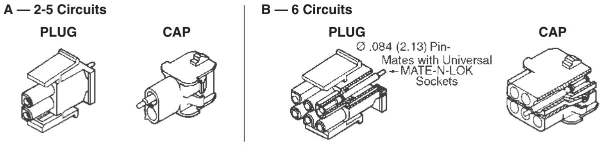
A — 2-5 Circuits

B — 6 Circuits

Fig. 6

• Economical splash proof and immersible sealed connector system • One interface seal and two wire seals required per mated assembly

Material: Silicone rubber, blue color

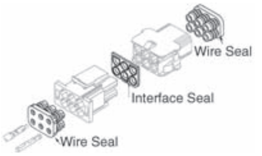

Connectors

Fig.	No. of Circuits	Description	Digi-Key Part No.	Pricing		AMP Part No.
				1	100	
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Natural Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14270-ND	.24	8.01	1-350867-0
	1	Cap In-Line	A14271-ND	.24	8.41	770421-1
	2	Plug In-Line	A1448-ND	.25	14.26	1-480698-0
	2	Cap In-Line	A1449-ND	.25	13.07	1-480699-0
	3	Plug In-Line	A1450-ND	.24	13.67	1-480700-0
	3	Cap In-Line	A1451-ND	.25	14.33	1-480701-0
	4	Plug In-Line	A1452-ND	.26	14.69	1-480702-0
	4	Cap In-Line	A1453-ND	.26	14.54	1-480703-0
	5	Plug In-Line	A1454-ND	.28	18.25	1-480763-0
	5	Cap In-Line	A1455-ND	.32	20.52	1-480764-0
	6	Plug Matrix	A1456-ND	.28	17.79	1-480704-0
	6	Cap Matrix	A1457-ND	.26	16.97	1-480705-0
	6	Plug In-Line	A14272-ND	.56	36.24	640585-1
	6	Cap In-Line	A14273-ND	.96	61.89	926307-1
	8	Plug In-Line	A14274-ND	.69	44.21	640586-1
	8	Cap In-Line	A14275-ND	1.60	102.68	926308-1
	9	Plug Matrix	A1458-ND	.31	20.20	1-480706-0
	9	Cap Matrix	A1459-ND	.28	18.18	1-480707-0
	12	Plug Matrix	A1460-ND	.36	23.36	1-480708-0
	12	Cap Matrix	A1461-ND	.32	20.60	1-480709-0
	15	Plug Matrix	A1462-ND†	.53	33.90	1-480710-0
	15	Cap Matrix	A1463-ND	.47	30.25	1-480711-0
2	6	Plug Circular	A30576-ND	.54	39.04	794911-1
	6	Cap Circular	A30577-ND	.54	39.04	794912-1
Universal MATE-N-LOK UL94V-0 Connectors Nylon, White Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14276-ND	.26	16.48	350865-1
	1	Cap In-Line	A14277-ND	.26	16.48	350866-1
	2	Plug In-Line	A14278-ND	.41	26.39	350777-1
	2	Cap In-Line	A14279-ND	.48	30.55	350778-1
	3	Plug In-Line	A14280-ND	.40	25.87	350766-1
	3	Cap In-Line	A14281-ND	.48	31.06	350767-1
	4	Plug In-Line	A14282-ND	.42	26.98	350779-1
	4	Cap In-Line	A14283-ND	.53	34.03	350780-1
	5	Plug In-Line	A14284-ND	.41	26.42	350809-1
	5	Cap In-Line	A14285-ND	.50	31.93	350810-1
	6	Plug In-Line	A14286-ND	.88	56.15	640581-1
	6	Cap In-Line	A14287-ND‡	2.11	135.34	926307-3
	6	Plug Matrix	A14288-ND	.60	38.56	350715-1
	6	Cap Matrix	A14289-ND	.53	34.11	350781-1
	8	Plug In-Line	A14290-ND	.75	47.98	640582-1
	8	Cap In-Line	A14291-ND‡	2.42	155.36	926308-3
	9	Plug Matrix	A14292-ND	.52	33.45	350720-1
	9	Cap Matrix	A14293-ND	.65	41.43	350782-1
	12	Plug Matrix	A14294-ND	.67	42.71	350735-1
	12	Cap Matrix	A14295-ND	.79	50.75	350783-1
	15	Plug Matrix	A14296-ND	.86	54.87	350736-1
	15	Cap Matrix	A14297-ND	1.07	68.44	350784-1
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Red Color (Contacts Sold Separately)						
1	2	Plug In-Line	A97536-ND	.32	21.25	1-480698-2
	2	Cap In-Line	A97535-ND	.29	19.47	1-480699-2
	3	Plug In-Line	A97511-ND	.32	21.57	1-480700-2
	3	Cap In-Line	A97510-ND	.32	21.27	1-480701-2
	4	Plug In-Line	A97513-ND	.33	21.90	1-480702-2
	4	Cap In-Line	A97512-ND	.33	21.67	1-480703-2
1	5	Plug In-Line	A97515-ND	.68	45.46	480763-2
	5	Cap In-Line	A97514-ND	.86	57.28	480764-2
	6	Plug Matrix	A97537-ND	.40	26.52	1-480704-2
	6	Cap Matrix	A97516-ND	.38	25.28	1-480705-2
	9	Plug Matrix	A97518-ND	.45	30.10	1-480706-2
	9	Cap Matrix	A97517-ND	.41	27.09	1-480707-2
	12	Plug Matrix	A97538-ND	.52	34.81	1-480708-2
	12	Cap Matrix	A97519-ND	.46	30.69	1-480709-2
	15	Plug Matrix	A97521-ND	.76	50.52	1-480710-2
	15	Cap Matrix	A97520-ND	.68	45.08	1-480711-2
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Black Color (Contacts Sold Separately)						
1	2	Plug In-Line	A97539-ND	.32	21.25	1-480698-9
	2	Cap In-Line	A97522-ND	.29	19.47	1-480699-9
	3	Plug In-Line	A97524-ND	.32	21.57	1-480700-9
	3	Cap In-Line	A97523-ND	.32	21.27	1-480701-9
	4	Plug In-Line	A97525-ND	.33	21.90	1-480702-9
	4	Cap In-Line	A97540-ND	.33	21.67	1-480703-9
	5	Plug In-Line	A97527-ND	.39	25.97	480763-9
	5	Cap In-Line	A97526-ND	.44	29.19	480764-9
	6	Plug Matrix	A97529-ND	.40	26.52	1-480704-9
	6	Cap Matrix	A97528-ND	.38	25.28	1-480705-9
	9	Plug Matrix	A97531-ND	.45	30.10	1-480706-9
	9	Cap Matrix	A97530-ND	.41	27.09	1-480707-9
	12	Plug Matrix	A97533-ND	.52	34.81	1-480708-9
	12	Cap Matrix	A97532-ND	.46	30.69	1-480709-9
	15	Plug Matrix	A97541-ND	.76	50.52	1-480710-9
	15	Cap Matrix	A97534-ND	.68	45.08	1-480711-9
Universal MATE-N-LOK UL94V-0 Flanged Cap Housings Nylon, White Color (Contacts Sold Separately)						
3	6	Matrix	A30555-ND	.74	59.87	794760-1
	9	Matrix	A30556-ND	.89	72.25	794761-1
	12	Matrix	A30557-ND	1.08	87.20	794762-1
Universal MATE-N-LOK UL94V-2 Flanged Cap Housings Nylon, Natural Color (Contacts Sold Separately)						
3	6	Matrix	A30558-ND	.64	52.07	794714-1
	9	Matrix	A30559-ND	.78	62.83	794715-1
	12	Matrix	A30560-ND	.94	75.82	794716-1
Universal MATE-N-LOK UL94V-2 Sealed Bulkhead Cap Nylon, Natural Color (Contacts Sold Separately)						
4	4	Cap In-Line	A32535-ND	2.14	173.40	1604256-1
	6	Cap Matrix	A32536-ND	2.23	180.20	1604210-1
	9	Cap Matrix	A32537-ND	2.31	187.00	1604254-1
	12	Cap Matrix	A32538-ND	3.34	270.30	1604941-1
Keying Plug, UL94V-0			A14305-ND	.24	19.46	1-640415-0
Keying Plug, UL94V-2			A14304-ND	.21	16.81	1-640415-1
Test Connectors (with spring loaded contacts)						
5A	2	Plug In-Line	A25328-ND	61.82	3966.10	350848-2
	3	Plug In-Line	A25731-ND	78.02	5004.80	350848-3
5B	6	Plug Matrix	A25735-ND	153.86	9870.20	350848-6
	6	Cap Matrix	A25736-ND	153.91	9873.60	350849-6

† Black ‡ Brick Red

Splash Proof Seals

Fig.	No. of Circuits	Interface Seal Digi-Key Part No.	Price Each		AMP Part No.	Wire Seal Digi-Key Part No.	Price Each		AMP Part No.
			1	100			1	100	
6	2	A25390-ND	.33	.28	794269-1	A25397-ND	.37	.30	794270-1
	3	A25391-ND	.48	.39	794271-1	A25398-ND	.51	.41	794272-1
	4	A25392-ND	.46	.37	794273-1	A25399-ND	.68	.56	794274-1
	6	A25393-ND	.70	.57	794275-1	A25400-ND	.84	.68	794276-1
	9	A25394-ND	1.14	.93	794277-1	A25401-ND	1.30	1.06	794278-1
	12	A25395-ND	1.58	1.28	794279-1	A25402-ND	1.70	1.38	794280-1
	15	A25396-ND	1.59	1.29	794281-1	A25403-ND	1.82	1.48	794282-1
Keying Plug, Nylon, UL94V-0						A25156-ND	4.42/10		770377-1

(Continued)

Contacts

Contact Plating:

A: Phosphor Bronze pre-tin plated
B: Brass pre-tin plated
C: Gold Finish: Plated with .000030" (.000762mm) minimum gold in mating area and inside wire barrel over .000050" (.00127mm) minimum nickel under-plate on entire contact
D: Select Gold Finish: Plated with .000030" (.000762mm) minimum gold in mating area over .000050" (.00127mm) minimum nickel under-plate on entire contact

Pin Contact

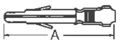

Socket Contact

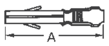

Split Pin Contact

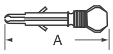

Programmable Contact

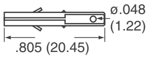

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			100	500	1,000		Qty.	Pricing	
Pin Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.790 (20.06)	A25405-ND	1.38	9.27	770672-1	A25405CT-ND	—	—	46.93	A25405TR-ND	8,000	28.16/M	350924-1
		Phos. Brz.	C	.790 (20.06)	A25353-ND	13.18	88.67	770672-6	—	—	—	—	—	—	—	—
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A14298-ND	1.20	8.09	350690-1	—	—	—	—	—	—	—	—
		Brass	C	.790 (20.06)	A14299-ND	10.04	67.57	350690-2	A14299CT-ND	—	—	505.68	A14299TR-ND	7,000	303.41/M	350561-2
		Brass	D	.790 (20.06)	A25359-ND	6.12	41.14	350690-7	A25359CT-ND	—	—	307.78	A25359TR-ND	7,000	184.67/M	350561-7
		Phos. Brz.	A	.790 (20.06)	A25362-ND	1.45	9.78	350690-3	A25362CT-ND	—	—	68.28	A25362TR-ND	7,000	40.97/M	350561-3
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A14300-ND§	1.17	7.89	350547-1	A97892CT-ND	3.94	16.75	24.94	A97892TR-ND	5,000	19.19/M	350218-1
		Brass	C	.790 (20.06)	A14301-ND§	8.64	58.13	350547-2	A14301CT-ND§	—	—	505.68	A14301TR-ND§	5,000	303.41/M	350218-2
		Silver	D	.790 (20.06)	A25341-ND§	6.11	41.08	350547-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A	.790 (20.06)	A25343-ND§	1.45	9.78	350547-3	A97893CT-ND	8.93	37.96	56.51	A97893TR-ND	5,000	43.47/M	350218-3
		Phos. Brz.	D	.790 (20.06)	A25346-ND§	10.14	68.24	350547-6	A25346CT-ND§	—	—	471.18	A25346TR-ND§	5,000	282.71/M	350218-6
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A14303-ND	1.29	8.67	350552-1	—	—	—	—	—	—	—	—
		Brass	C	.810 (20.57)	A25368-ND	8.33	56.01	350552-2	—	—	—	—	—	—	—	—
		Brass	D	.810 (20.57)	A25371-ND	6.36	42.79	350552-7	A25371CT-ND	—	170.02	309.13	A25371TR-ND	2,500	247.30/M	350538-7
		Phos. Brz.	A	.810 (20.57)	A25374-ND	1.90	12.79	350552-3	A25374CT-ND	—	54.92	90.13	A25374TR-ND	2,500	83.84/M	350538-3
		Phos. Brz.	D	.810 (20.57)	A25408-ND	12.32	82.87	350552-6	A25408CT-ND	—	272.07	494.68	A25408TR-ND	2,500	395.74/M	350538-6
22-18	.060 - .094 (1.50-2.40)	Brass	B	.634 (16.10)	—	—	—	—	A32600CT-ND	9.33	39.67	59.05	A32600TR-ND	7,000	45.42/M	794440-1
18-14	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	—	—	—	—	A25378CT-ND	5.63	23.95	42.59	A25378TR-ND	2,500	36.56/M	350873-1
		Phos. Brz.	A	.810 (20.57)	A25380-ND	1.78	11.95	350918-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.810 (20.57)	A25382-ND▲	2.64	17.77	640309-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D	.810 (20.57)	A25386-ND▲	11.65	78.37	640309-6	A25386CT-ND▲	—	—	652.13	A25386TR-ND▲	3,000	521.70/M	350922-6
Socket Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.760 (19.30)	A25352-ND	1.42	9.54	770673-1	A25352CT-ND	—	—	44.13	A25352TR-ND	8,000	26.48/M	350925-1
24-18	.040 - .100 (1.02-2.54)	Brass	B	.760 (19.30)	—	—	—	—	A97891CT-ND◊	4.33	18.41	27.40	A97891TR-ND◊	7,500	21.08/M	350570-1
		Brass	B	.760 (19.30)	A1437-ND◊	1.01	6.80	350689-1	A97890CT-ND	4.42	18.81	28.00	A97890TR-ND	7,500	21.54/M	350851-1
		Brass	C	.760 (19.30)	A25357-ND	7.91	53.20	640347-2	A25357CT-ND	—	283.69	515.80	A25357TR-ND	7,500	309.48/M	350851-2
		Brass	C	.760 (19.30)	A1439-ND◊	10.29	69.23	350689-2	A1439CT-ND◊	—	269.50	490.00	A1439TR-ND◊	7,500	294.00/M	350570-2
		Brass	D	.760 (19.30)	A25360-ND◊	6.20	41.70	350689-7	A25360CT-ND	—	144.60	262.90	A25360TR-ND	7,500	157.74/M	350851-7
		Phos. Brz.	A	.760 (19.30)	A25363-ND◊	1.58	10.60	350689-3	A25363CT-ND◊	—	35.71	64.93	A25363TR-ND◊	7,500	38.96/M	350570-3
		Phos. Brz.	D	.760 (19.30)	—	—	—	—	A25364CT-ND◊	48.78	207.46	308.82	A25364TR-ND◊	7,500	237.56/M	350570-6
20-14	.060 - .130 (1.52-3.30)	Brass	B	.760 (19.30)	A1441-ND§	1.12	7.56	350550-1	A97889CT-ND	3.94	16.75	24.94	A97889TR-ND	5,000	19.19/M	350536-1
		Brass	C	.760 (19.30)	A1443-ND§	8.71	58.57	350550-2	A1443CT-ND§	—	—	593.63	A1443TR-ND§	5,000	356.18/M	350536-2
		Brass	D	.760 (19.30)	A25342-ND§	6.11	41.08	350550-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A	.760 (19.30)	A25344-ND§	1.51	10.19	350550-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D	.760 (19.30)	A25347-ND§	10.62	71.42	350550-6	A25347CT-ND§	—	—	497.30	A25347TR-ND§	5,000	298.38/M	350536-6
	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	A14302-ND	1.32	8.91	350551-1	—	—	—	—	—	—	—	—
		Brass	C	.780 (19.81)	A25369-ND	8.71	58.60	350551-2	A25369CT-ND	—	326.81	594.20	A25369TR-ND	2,500	475.36/M	350537-2
		Brass	D	.780 (19.81)	A25372-ND	6.40	43.06	350551-7	A25372CT-ND	—	191.47	348.13	A25372TR-ND	2,500	278.50/M	350537-7
		Phos. Brz.	A	.780 (19.81)	A25375-ND	1.90	12.79	350551-3	A25375CT-ND	—	51.19	84.02	A25375TR-ND	2,500	78.16/M	350537-3
		Phos. Brz.	D	.780 (19.81)	A25409-ND	12.36	83.13	350551-6	A25409CT-ND	—	255.05	463.73	A25409TR-ND	2,500	370.98/M	350537-6
22-18	.060 - .094 (1.50-2.40)	Brass	B	.572 (14.53)	—	—	—	—	A32602CT-ND	9.50	40.43	60.18	A32602TR-ND	7,000	46.29/M	794831-1
18-14	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	—	—	—	—	A25379CT-ND	5.63	23.95	39.30	A25379TR-ND	2,500	36.56/M	350874-1
		Phos. Brz.	A	.780 (19.81)	A25381-ND	1.78	11.95	350919-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.780 (19.81)	A25383-ND▲	2.64	17.77	640310-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D	.780 (19.81)	A25387-ND▲	11.81	79.44	640310-6	A25387CT-ND▲	—	326.84	594.25	A25387TR-ND▲	2,500	475.40/M	350923-6
Split Pin Contacts																
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A1436-ND	1.19	8.03	350706-1	—	—	—	—	—	—	—	—
		Brass	C	.790 (20.06)	A1438-ND	7.76	52.20	350706-2	A1438CT-ND	—	—	543.80	A1438TR-ND	7,000	326.28/M	350699-2
		Brass	D	.790 (20.06)	A25334-ND	5.61	37.72	350706-7	A25334CT-ND	—	—	324.03	A25334TR-ND	7,000	194.42/M	350699-7
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A1440-ND§	1.01	6.80	350705-1	—	—	—	—	—	—	—	—
		Brass	C	.790 (20.06)	A1442-ND§	7.76	52.20	350705-2	—	—	—	—	—	—	—	—
		Brass	D	.790 (20.06)	A25336-ND§	5.61	37.72	350705-7	A25336CT-ND§	—	—	344.25	A25336TR-ND§	5,000	206.55/M	350687-7
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A25338-ND	1.50	10.07	350707-1	A25338CT-ND	—	31.65	57.55	A25338TR-ND	2,500	46.04/M	350700-1
		Brass	D	.810 (20.57)	A25730-ND	6.76	45.49	350707-7	—	—	—	—	—	—	—	—
Grounding Pin																
20-14	.060 - .130 (1.52-3.30)	Brass	B	—	A25339-ND§	1.32	8.91	350669-1	—	—	—	—	—	—	—	—
Keying Plug																
Keying Plug, UL94V-0 Nylon					A25156-ND	4.42	38.87	770377-1	—	—	—	—	—	—	—	—
Programmable Connector Contact																
Socket w/110 Series Special FASTON Tab, Brass - Pre-Tin					A25340-ND	1.44	9.71	350877-1	—	—	—	—	—	—	—	—

▲ There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.
◊ Socket Contact: .010in. (.254mm) stock thickness § Can be used with Splash Proof Seals

Tools and Die Sets

A25206-ND (58382-1)	Latch Disengaging Tool	**$47.38**
A9998-ND (91002-1)	Contact Insertion Tool	**$19.77**
A9907-ND (91500-1)	Universal Mate-N-Lok Crimp Tool for 20-14AWG	**$603.45**
A9996-ND (354940-1)	PRO-CRIMPER™ III Hand Tool without Dies.	**$45.36**
A34584-ND (679221-1)	PRO-CRIMPER II/III Repair Kit	**$41.96**
A9944-ND (90548-2)	PRO-CRIMPER III Die Set for 24-18AWG	**$90.72**
A9943-ND (90546-2)	PRO-CRIMPER III Die Set for 20-14AWG (.060"-.130" Insulation Diameter)	**$90.72**
A9924-ND (90547-2)	PRO-CRIMPER III Die Set for 20-14AWG (.130"-.200" Insulation Diameter)	**$90.72**
A9923-ND (58530-2)	PRO-CRIMPER III Die Set for 12-10AWG	**$267.30**
A9947-ND (91510-1)	CERTI-CRIMP™ Hand tool with Die for 24-18AWG	**$603.45**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$603.45**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$353.19**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$754.49**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$1000.50**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$164.70**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Insulation Diameter)	**$164.70**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Insulation Diameter)	**$164.70**

AMP Universal MATE-N-LOK II® Connectors - Soft Shell

Housing Kits

Product Facts: • Ultimate reliability • Pins and sockets can be intermixed in the same housing • Available in 2 thru 15 Circuit sizes for free hanging or panel mount wire-to-wire connection • Polarized housings available in UL94V-0 flammability rated material • Contacts are on .250" (6.35mm) centerline spacing • UL Recognized: E28476 • Certified CSA: LR 16455-113 • Passed test by VDE under their Test Report No. 4751-1431-4016/A8E **Performance Characteristics:** • Dielectric Withstanding Voltage: 5.0 KVAC or 10 KVDC between adjacent circuits • Insulation Resistance: 1,000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 35 pounds minimum per contact • Durability: 50 cycles, mating and unmating

Fig. 1

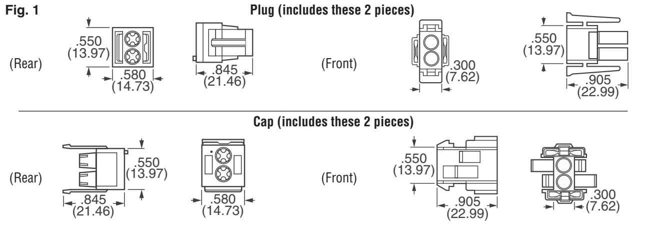
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 2

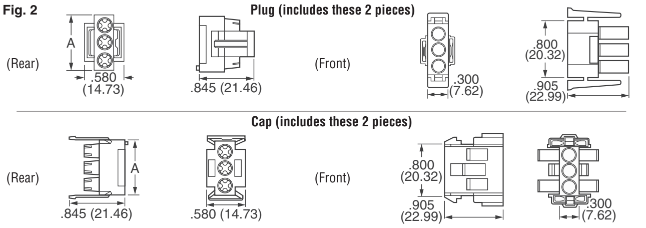
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 3

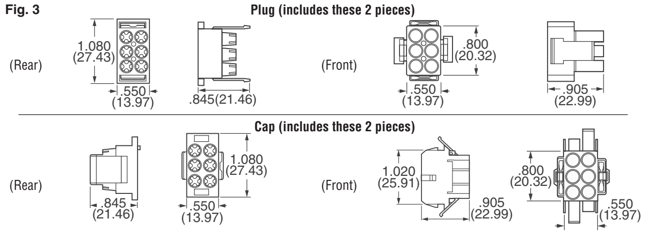
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 4

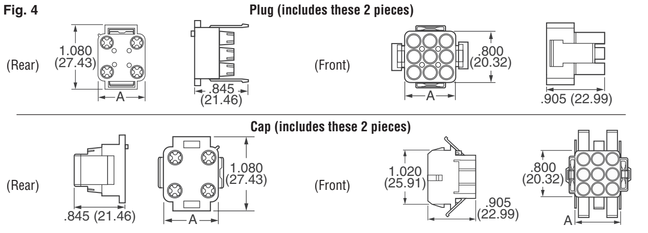
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig.	Type	No. of Circuits	Descrip-tion	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1	In-Line	2	Plug	—	A14240-ND	.83	.54	770017-1
	In-Line	2	Cap	—	A14247-ND	.84	.55	770024-1
2	In-Line	3	Plug	.800 (20.32)	A14241-ND	.90	.59	770018-1
	In-Line	3	Cap	.800 (20.32)	A14248-ND	1.00	.65	770025-1
	In-Line	4	Plug	1.050 (26.67)	A14242-ND	1.02	.66	770019-1
	In-Line	4	Cap	1.050 (26.67)	A14249-ND	1.09	.70	770026-1
	In-Line	5	Plug	1.300 (33.02)	A25155-ND	.91	.59	770016-1
3	Matrix	6	Plug	—	A14243-ND	1.17	.75	770020-1
3	Matrix	6	Cap	—	A14250-ND	1.15	.74	770027-1
4	Matrix	9	Plug	.800 (20.32)	A14244-ND	1.24	.80	770021-1
	Matrix	9	Cap	.800 (20.32)	A14251-ND	1.23	.79	770028-1
	Matrix	12	Plug	1.050 (26.67)	A14245-ND	1.39	.89	770022-1
	Matrix	12	Cap	1.050 (26.67)	A14252-ND	1.34	.86	770029-1
	Matrix	15	Plug	1.300 (33.02)	A14246-ND	1.81	1.17	770023-1
	Matrix	15	Cap	1.300 (33.02)	A14253-ND	1.72	1.11	770030-1
Keying Plug, Nylon UL94V-0					A25156-ND	4.42/10	38.87/100	770377-1

Contacts

Contact Plating: A: Phosphor bronze pre-tin plated **B**: Brass pre-tin plated **C:** Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000050" (.00127mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

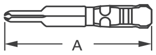

Socket Connector

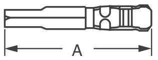

Wire Size (AWG)	Insulation Range ø Inch (mm)	Material	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
Split Pin Contacts — RoHS Compliant																
24-18	.040 ~ .100 (1.02 ~ 2.54)	Brass	B	1.005 (25.53)	A14254-ND	2.30	15.46	770252-1	A14254CT-ND	—	—	62.48	A14254TR-ND	5,000	37.49/M	770009-1
		Brass	C	1.005 (25.53)	A31707-ND	10.54	70.89	1-770252-0	A31707CT-ND	56.95	242.22	462.25	A31707TR-ND	5,000	277.35/M	1-770009-0
20-14	.060 ~ .130 (1.52 ~ 3.30)	Brass	B	1.005 (25.53)	A14256-ND	2.30	15.46	770250-1	—	—	—	—	—	—	—	—
		Brass	C	1.005 (25.53)	A31706-ND	10.54	70.89	1-770250-0	A31706CT-ND	57.50	244.58	466.75	A31706TR-ND	4,000	373.40/M	1-770007-0
20-14	.130 ~ .200 (3.30 ~ 5.08)	Brass	B	.995 (25.27)	A14258-ND	3.03	20.36	770248-1	—	—	—	—	—	—	—	—
		Brass	C	.995 (25.27)	A31710-ND	12.78	85.94	1-770248-0	A31710CT-ND	—	281.17	511.23	A31710TR-ND	2,500	408.98/M	1-770005-0
		Phos Brz.	C	.995 (25.27)	—	—	—	—	A31705CT-ND	81.60	347.08	662.38	A31705TR-ND	2,500	529.90/M	1-770005-1
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	1.005 (25.53)	A14260-ND	4.84	32.58	770246-3	A14260CT-ND	—	—	245.68	A14260TR-ND	3,000	196.54/M	770003-3
		Phos. Brz.	C	1.005 (25.53)	A31708-ND	22.98	154.59	1-770246-0	—	—	—	—	—	—	—	—
Socket Contacts																
24-18	.040 ~ .100 (1.02 ~ 2.54)	Phos. Brz.	A	.980 (24.90)	A14262-ND◆	2.66	17.90	770253-3	A14262CT-ND◆	—	—	93.78	A14262TR-ND◆	5,000	56.27/M	770010-3
		Phos. Brz.	C	.980 (24.90)	A14263-ND	17.57	118.19	770253-4	A14263CT-ND	—	—	731.55	A14263TR-ND	5,000	438.93/M	770010-4
		Phos. Brz.	C	.980 (24.90)	A33356-ND◆	16.44	110.61	1-770253-0	A33356CT-ND◆	—	—	664.85	A33356TR-ND◆	5,000	398.91/M	1-770010-0
20-14	.060 ~ .130 (1.52 ~ 3.30)	Phos. Brz.	A	.980 (24.90)	A14264-ND◆	2.80	18.83	770251-3	—	—	—	—	—	—	—	—
		Phos. Brz.	C	.980 (24.90)	A14265-ND	18.49	124.41	770251-4	A14265CT-ND	—	—	750.55	A14265TR-ND	4,000	450.33/M	770008-4
		Phos. Brz.	C	.980 (24.90)	A33357-ND◆	17.31	116.42	1-770251-0	A33357CT-ND◆	—	—	682.15	A33357TR-ND◆	4,000	409.29/M	1-770008-0
20-14	.130 ~ .200 (3.30 ~ 5.08)	Phos. Brz	A	.970 (24.64)	A14266-ND◆	3.66	24.63	770249-3	A14266CT-ND◆	—	90.96	165.38	A14266TR-ND◆	2,500	132.30/M	770006-3
		Phos. Brz	C	.970 (24.64)	A31711-ND◆	21.04	141.53	1-770249-0	—	—	—	—	—	—	—	—
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	.980 (24.90)	A14268-ND◆	4.84	32.58	770247-3	—	—	—	—	—	—	—	—
		Phos. Brz.	C	.980 (24.90)	—	—	—	—	A14269CT-ND	—	—	1106.13	—	—	—	770004-4
		Phos. Brz.	C	.980 (24.90)	A31704-ND◆	23.30	156.73	1-770247-0	A31704CT-ND◆	123.85	526.76	1005.28	A31704TR-ND◆	3,000	804.22/M	1-770004-0
Grounding Pins (mate first, break last, not for interrupting current)																
20-14	.060 ~ .130 (1.52 ~ 3.30)	Brass	B	—	A25188-ND◆	3.50	23.57	770254-1	—	—	—	—	—	—	—	—
		Brass	C	—	A31714-ND◆	20.96	140.97	1-770254-0	—	—	—	—	—	—	—	—
20-14	.130 ~ .200 (3.30 ~ 5.08)	Brass	B	—	A25737-ND◆	3.50	23.57	770255-1	—	—	—	—	—	—	—	—
		Brass	C	—	A25738-ND	22.39	150.65	770255-2	—	—	—	—	—	—	—	—

◆ ***RoHS Compliant*** † There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.

Tools and Die Sets

Part No.	Description	Price
A25206-ND (58382-1)	Latch Disengaging Tool	**$47.38**
A32539-ND (1804030-1)	Contact Extraction Tool	**$33.46**
A1444-ND (455830-1)	Contact Insertion Tool (Larger than .090" Insulation Diameter)	**$16.14**
A9998-ND (91002-1)	Contact Insertion Tool (.090" max. Insulation Diameter)	**$19.77**
A9996-ND (354940-1)	PRO-CRIMPER III Hand Tool without Dies.	**$45.36**
A34584-ND (679221-1)	PRO-CRIMPER II/III Repair Kit.	**$41.96**
A9944-ND (90548-2)	PRO-CRIMPER III Die Set for 24-18AWG	**$90.72**
A9943-ND (90546-2)	PRO-CRIMPER III Die Set for 20-14AWG (.060"-.130" Insulation Diameter)	**$90.72**
A9924-ND (90547-2)	PRO-CRIMPER III Die Set for 20-14AWG (.130"-.200" Insulation Diameter)	**$90.72**
A9923-ND (58530-2)	PRO-CRIMPER III Die Set for 12-10AWG	**$267.30**
A9947-ND (91510-1)	CERTI-CRIMP Hand Tool with Die for 24-18AWG	**$603.45**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$603.45**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$353.19**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$754.49**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$1000.50**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$164.70**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Insulation Diameter)	**$164.70**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Insulation Diameter)	**$164.70**

AMP Strain Reliefs (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Strain Reliefs *(Two strain reliefs required per housing)*

Fig.	No. of Circuits	Description	Insert Supplied	Wire Bundle Size (Inch)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Enclosed Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color								
1	2	In-Line	Yes	.040 ~ .190	A14338-ND	1.04	.85	640713-1
	2	In-Line	No	.200 ~ .350	A25162-ND	1.04	.85	640713-2
	3	In-Line	Yes	.040 ~ .190	A14339-ND	1.07	.87	640714-1
	3	In-Line	No	.200 ~ .350	A25163-ND	.88	.72	641945-1
	4	In-Line	Yes	.040 ~ .190	A14340-ND	.96	.78	641776-1
	4	In-Line	No	.200 ~ .350	A25164-ND	1.01	.82	641776-2
	5	In-Line	Yes	.040 ~ .190	A14341-ND	2.05/2	.83	643030-1
	5	In-Line	No	.200 ~ .350	A25165-ND	2.05/2	.83	643030-4
	6	In-Line	Yes	.040 ~ .190	A14342-ND†	1.15	.94	643313-1
	6	In-Line	No	.200 ~ .350	A25166-ND†	1.15	.94	643313-2
	8	In-Line	Yes	.040 ~ .190	A14343-ND†	1.18	.96	643314-1
	6	Matrix	Yes	.120 ~ .650	A14344-ND	1.10	.90	640715-1
	9	Matrix	Yes	.120 ~ .650	A14345-ND	1.15	.93	640716-1
	12	Matrix	Yes	.150 ~ .750	A14346-ND	1.17	.95	640717-1
	15	Matrix	Yes	.200 ~ .850	A14347-ND	1.28	1.04	640718-1
Enclosed Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color								
1	2	In-Line	Yes	.040 ~ .190	A14348-ND	.98	.78	1-640719-0
	2	In-Line	No	.200 ~ .350	A25167-ND	.78	.64	1-640719-1
	3	In-Line	Yes	.040 ~ .190	A14349-ND	.95	.78	1-640720-0
	3	In-Line	No	.200 ~ .350	A14350-ND	1.03	.84	641763-1
	4	In-Line	Yes	.040 ~ .190	A25168-ND	.86	.70	641775-1
	4	In-Line	No	.200 ~ .350	A14351-ND	2.22/2	.91	641775-2
	5	In-Line	Yes	.040 ~ .190	A25169-ND	.92	.75	643030-3
	5	In-Line	No	.200 ~ .350	A14352-ND	1.85/2	.75	643030-2
	6	In-Line	Yes	.040 ~ .190	A25324-ND†	1.04	.84	643585-1
	6	In-Line	No	.200 ~ .350	A25325-ND†	1.04	.84	643585-2
	6	Matrix	Yes	.120 ~ .650	A14353-ND	1.08	.86	1-640721-0
	9	Matrix	Yes	.120 ~ .650	A14354-ND	1.02	.83	1-640722-0
	12	Matrix	Yes	.150 ~ .750	A14355-ND	1.05	.86	1-640723-0
	15	Matrix	Yes	.200 ~ .850	A14356-ND	1.09	.89	1-640724-0

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Open Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color					
2	2, 3, 4, 5, 6 and 8, In-Line	A14336-ND	.58	.47	350811-1
	6, 9, 12 and 15, Matrix	A14337-ND	.66	.54	350812-1
Open Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color					
2	2, 3, 4, 5, 6 and 8, In-Line	A25326-ND	.55	.45	1-350589-0
	6, 9, 12 and 15, Matrix	A25327-ND	.63	.51	1-350590-0

Fig. 1

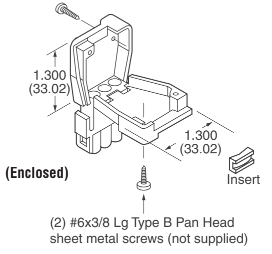

(2) #6x3/8 Lg Type B Pan Head sheet metal screws (not supplied)

Fig. 2

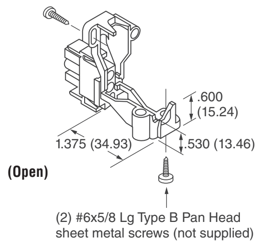

(2) #6x5/8 Lg Type B Pan Head sheet metal screws (not supplied)

Fig. 3

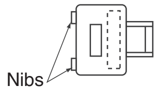

Fig. 4

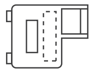

Cap Housing Adapters

Fig.	Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Adapters for UL94V-0 Strain Reliefs — White Color					
3	For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24724-ND	.55	.48	641778-1
4	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.58	.51	643182-2
Adapters for UL94V-2 Strain Reliefs — Natural Color					
3	For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24903-ND	.47	.41	641777-1
4	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24904-ND	.65	.57	643182-1

† Strain relief for 6 and 8 position in-line fits plug housings only.

AMP Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Fig. 1 — Housing: 94V-2 rating, nylon natural color. 94V-0 rating, white unless noted otherwise **Contact:** Phosphor bronze **Contact Plating: A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127mm) minimum nickel underplate on entire contact

Fig. 1A
In-Line Circuits

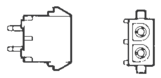

Fig. 1B
Multiple Row Circuits

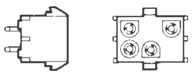

Fig. 2 — Housing: 94V-2 rated, natural nylon **Contact:** Phosphor bronze **Contact Plating: A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762 mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127 mm) minimum nickel underplate on entire contact

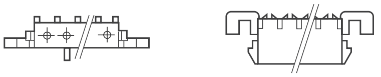

Fig. 3 — Housing: PBT, black **Contact:** Copper alloy, plated with tin-lead over nickel on entire contact

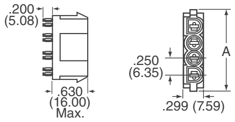

For MATE-N-LOK® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	6	A	UL94V-0	A25287-ND	2.08	1.50	641831-1
	8	A	UL94V-0	A14321-ND	1.82	1.31	641828-1
	2	A	UL94V-2	A1466-ND	.44	.32	350428-1
	2	B	UL94V-2	A32544-ND	1.63	1.17	350428-4
	3	A	UL94V-2	A1468-ND	.57	.41	350429-1
	3	B	UL94V-2	A31742-ND	2.17	1.56	350429-4
	4	A	UL94V-2	A1470-ND	.74	.53	350430-1
	4	B	UL94V-2	A31743-ND	2.85	2.05	350430-4
	5	A	UL94V-2	A14317-ND	1.08	.78	640466-1
	6	A	UL94V-2	A14319-ND	2.49	1.79	641832-1
	8	A	UL94V-2	A14320-ND	1.96	1.41	641825-1
1B	6	A	UL94V-2	A1472-ND	.68	.50	350431-1
	6	B	UL94V-2	A31744-ND	3.81	2.74	350431-4
	9	A	UL94V-2	A1474-ND	1.33	.96	350432-1
	9	B	UL94V-2	A31745-ND	5.64	4.05	350432-4
	12	A	UL94V-2	A1476-ND	1.60	1.15	350433-1
	12	B	UL94V-2	A31746-ND	7.32	5.25	350433-4
	15	A	UL94V-2	A1478-ND	1.75	1.26	350434-1
	15	B	UL94V-2	A31747-ND	9.06	6.50	350434-4
Standard Tail Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	6	A	UL94V-0	A25293-ND	2.19	1.57	643408-1
	8	A	UL94V-0	A25295-ND	2.57	1.85	643410-1
	2	A	UL94V-2	A25288-ND	.61	.44	641963-1
	3	A	UL94V-2	A25289-ND	.63	.46	641965-1
	4	A	UL94V-2	A25290-ND	.84	.61	641967-1
	5	A	UL94V-2	A25291-ND	1.62	1.16	643405-1
	6	A	UL94V-2	A25292-ND	1.82	1.31	643407-1
1B	6	A	UL94V-2	A25294-ND	1.09	.78	641969-1
	9	A	UL94V-2	A25296-ND	1.34	.96	641971-1
	12	A	UL94V-2	A25297-ND	1.57	1.13	641973-1
	15	A	UL94V-2	A25298-ND	2.12	1.53	641975-1
Long Tail — (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25299-ND◆	.58	.42	350582-1
	2	B	UL94V-2	A25300-ND	1.59	1.14	350582-2
	2	B	UL94V-2	A31748-ND◆	1.49	1.07	350582-4
	3	A	UL94V-2	A25301-ND◆	.64	.46	350583-1
1A	3	B	UL94V-2	A25302-ND	2.38	1.71	350583-2
	3	B	UL94V-2	A31749-ND◆	2.22	1.60	350583-4
	4	A	UL94V-2	A25303-ND◆	.81	.59	350584-1
	4	B	UL94V-2	A25304-ND	2.81	2.02	350584-2
	4	B	UL94V-2	A31750-ND◆	2.63	1.89	350584-4
	8	A	UL94V-2	A25307-ND◆	2.17	1.56	770143-1
1B	6	A	UL94V-2	A25305-ND◆	1.05	.76	350585-1
	6	B	UL94V-2	A25306-ND	4.43	3.18	350585-2
	6	B	UL94V-2	A31751-ND◆	4.15	2.98	350585-4
	9	A	UL94V-2	A25308-ND◆	1.30	.94	350586-1
	9	B	UL94V-2	A31752-ND◆	6.14	4.41	350586-4
	12	A	UL94V-2	A25310-ND◆	1.61	1.16	350587-1
	15	A	UL94V-2	A25311-ND◆	1.95	1.40	350588-1
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A1490-ND◆	.34	.28	350759-4
	2	B	UL94V-2	A1491-ND	1.27	.70	350759-3
	2	B	UL94V-2	A31759-ND◆	1.19	.66	350759-5
	3	A	UL94V-2	A1492-ND◆	.45	.37	350760-4
	3	B	UL94V-2	A31760-ND◆	1.75	.96	350760-5
	4	A	UL94V-2	A1494-ND◆	.46	.38	350761-4
	4	B	UL94V-2	A31761-ND◆	2.23	1.23	350761-5
	5	A	UL94V-2	A25312-ND◆	1.31	.94	640467-1
1B	6	A	UL94V-2	A1496-ND◆	.75	.62	350762-4
	6	B	UL94V-2	A31762-ND◆	3.33	1.83	350762-5
	9	A	UL94V-2	A1498-ND◆	.87	.71	350763-4
	12	A	UL94V-2	A1200-ND◆	1.26	1.02	350764-4
	12	B	UL94V-2	A31763-ND◆	6.20	3.40	350764-5
	15	A	UL94V-2	A1202-ND◆	1.62	1.31	350765-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-2	A25313-ND	.36	.30	643411-1
	3	A	UL94V-2	A25314-ND	.49	.40	643413-1
	4	A	UL94V-2	A25315-ND	.59	.49	643415-1
1B	6	A	UL94V-2	A25316-ND	.76	.62	643423-1
	9	A	UL94V-2	A25317-ND	1.01	.82	643425-1
	15	A	UL94V-2	A25318-ND	1.61	1.31	643429-1

◆ *RoHS Compliant*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

For MATE-N-LOK® Connectors *(Cont.)*

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Long Tail (for .125" (3.18mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-2	A25319-ND	.43	.35	350986-4
	4	A	UL94V-2	A25320-ND	.60	.49	350988-4
1B	6	A	UL94V-2	A25321-ND	1.00	.82	350989-4
	9	A	UL94V-2	A25322-ND	1.23	1.00	350990-4
	15	A	UL94V-2	A25323-ND	1.61	1.31	350992-4
Right Angle Pin Header Assemblies — PCB Mount — RoHS Compliant							
2	6	A	UL94V-0	A14311-ND	3.48	2.50	640583-1
	6	B	UL94V-0	A31769-ND	6.36	4.56	640583-3
	8	A	UL94V-0	A14312-ND	3.73	2.68	640584-1
	8	B	UL94V-0	A31770-ND	9.32	6.68	640584-3
	4	A	UL94V-0	A25210-ND	1.64	1.18	1-350948-0
Right Angle Socket Header Assemblies — PCB Mount — RoHS Compliant							
2	6	A	UL94V-0	A25220-ND	3.36	2.72	643234-1
	6	B	UL94V-0	A31773-ND	7.26	3.98	3-643234-0
	8	A	UL94V-0	A25222-ND	3.84	3.12	643236-1
	8	B	UL94V-0	A31774-ND	10.65	5.83	3-643236-0

For MATE-N-LOK® and MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A14314-ND	.73	.53	350786-1
	3	A	UL94V-0	A14315-ND	.89	.64	350789-1
	4	A	UL94V-0	A14316-ND	1.05	.76	350792-1
	5	A	UL94V-0	A14318-ND	1.68	1.21	640900-1
1B	6	A	UL94V-0	A14322-ND	1.72	1.24	350711-1
	6	B	UL94V-0	A31753-ND	4.92	3.53	350711-4
	9	A	UL94V-0	A14324-ND	1.61	1.16	350712-1
	12	A	UL94V-0	A14325-ND	1.94	1.40	350713-1
	12	B	UL94V-0	A31754-ND	6.64	4.76	350713-4
	15	A	UL94V-0	A14327-ND	2.43	1.75	350714-1
Standard Tail Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A25230-ND	.95	.69	641964-1
	3	A	UL94V-0	A25231-ND	1.05	.76	641966-1
	4	A	UL94V-0	A25232-ND	1.23	.89	641968-1
	5	A	UL94V-0	A25233-ND	1.69	1.22	643406-1
1B	6	A	UL94V-0	A25234-ND	1.53	1.10	641970-1
	6	B	UL94V-0	A31771-ND	5.19	3.73	641970-3
	9	A	UL94V-0	A25236-ND	2.41	1.73	641972-1
	9	B	UL94V-0	A31772-ND	7.36	5.28	641972-3
	12	A	UL94V-0	A25238-ND	2.14	1.54	641974-1
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25240-ND◆	.91	.66	350787-1
	2	B	UL94V-0	A25241-ND	2.22	1.59	350787-2
	2	B	UL94V-0	A31764-ND◆	2.08	1.49	350787-3
	3	A	UL94V-0	A25242-ND◆	1.00	.73	350790-1
	3	B	UL94V-0	A31765-ND◆	2.66	1.91	350790-3
	4	A	UL94V-0	A25244-ND◆	1.19	.86	350793-1
	4	B	UL94V-0	A25245-ND	3.57	2.56	350793-2
	4	B	UL94V-0	A31766-ND◆	3.34	2.40	350793-3
1B	6	A	UL94V-0	A25246-ND◆	1.47	1.06	350732-1
	6	B	UL94V-0	A31755-ND◆	4.65	3.34	350732-4
	9	A	UL94V-0	A25248-ND◆	1.74	1.25	350742-1
	9	B	UL94V-0	A31758-ND◆	6.33	4.54	350742-4
	12	A	UL94V-0	A25250-ND◆	2.07	1.49	350737-1
	12	B	UL94V-0	A31756-ND◆	8.13	5.83	350737-4

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1B	15	A	UL94V-0	A25252-ND◆	2.43	1.74	350738-1
	15	B	UL94V-0	A31757-ND◆	9.96	7.14	350738-4
1A	3	A	UL94V-0	A14328-ND◆	.59	.48	350825-1
	4	A	UL94V-0	A14329-ND◆	.80	.65	350826-1
1B	6	A	UL94V-0	A14330-ND◆	1.08	.88	350827-1
	9	A	UL94V-0	A14331-ND◆	1.20	.97	350828-1
	12	A	UL94V-0	A14332-ND◆	1.60	1.30	350829-1
	12	B	UL94V-0	A14333-ND	7.05	3.86	350829-2
	12	B	UL94V-0	A31767-ND◆	6.59	3.61	350829-4
	15	A	UL94V-0	A14334-ND◆	1.94	1.58	350830-1
	15	B	UL94V-0	A31768-ND◆	8.05	4.41	350830-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A25262-ND	.61	.50	643412-1
	3	A	UL94V-0	A25263-ND	.70	.57	643414-1
	4	A	UL94V-0	A25264-ND	.80	.65	643416-1
1B	6	A	UL94V-0	A25265-ND	1.11	.90	643424-1
	6	B	UL94V-0	A31775-ND	4.75	2.61	643424-3
	9	A	UL94V-0	A25267-ND	1.32	1.08	643426-1
	9	B	UL94V-0	A31776-ND	4.12	2.26	643426-3
	12	A	UL94V-0	A25269-ND	1.59	1.29	643428-1
	15	A	UL94V-0	A25270-ND	1.99	1.62	643430-1
Long Tail (for .125" (3.18mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A25271-ND	.68	.56	350831-1
	3	A	UL94V-0	A25272-ND	.75	.61	350832-1
	3	B	UL94V-0	A31733-ND	2.38	1.31	350832-4
	4	A	UL94V-0	A25274-ND	.87	.71	350833-1
	4	B	UL94V-0	A31734-ND	3.02	1.66	350833-4
1B	6	A	UL94V-0	A25276-ND	1.09	.89	350834-1
	6	B	UL94V-0	A31735-ND	4.04	2.21	350834-4
	9	A	UL94V-0	A25278-ND	1.35	1.10	350835-1
	9	B	UL94V-0	A31736-ND	5.53	3.03	350835-4
	12	A	UL94V-0	A25280-ND	1.62	1.31	350836-1
	12	B	UL94V-0	A31737-ND	7.18	3.94	350836-4
	15	A	UL94V-0	A25282-ND	1.88	1.53	350837-1
	15	B	UL94V-0	A31738-ND	8.85	4.85	350837-4
Right Angle Pin Header Assemblies — PCB Mount — RoHS Compliant							
2	2	A	UL94V-0	A14306-ND	1.83	1.31	1-350942-0
	2	B	UL94V-0	A31729-ND	3.19	2.29	3-350942-0
	3	A	UL94V-0	A14307-ND	1.86	1.34	1-350943-0
	3	B	UL94V-0	A31730-ND	3.92	2.82	3-350943-0
	4	A	UL94V-0	A1484-ND	1.90	1.37	1-350944-0
	4	B	UL94V-0	A31731-ND	4.84	3.47	3-350944-0
	5	A	UL94V-2	A1486-ND	2.28	1.64	1-350945-0
	5	B	UL94V-2	A31732-ND	5.00	3.59	3-350945-0
	6	A	UL94V-2	A25212-ND	2.99	2.15	640587-1
Right Angle Socket Header Assemblies — PCB Mount — RoHS Compliant							
2	2	A	UL94V-0	A25213-ND	1.58	1.28	643226-1
	3	A	UL94V-0	A25214-ND	1.93	1.57	643228-1
	3	B	UL94V-0	A31739-ND	3.92	2.15	3-643228-0
	4	A	UL94V-0	A25216-ND	2.38	1.93	643230-1
	4	B	UL94V-0	A31740-ND	5.25	2.88	3-643230-0
	5	A	UL94V-0	A25218-ND	2.92	2.37	643232-1
	5	B	UL94V-0	A31741-ND	6.55	3.59	3-643232-0

For MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Style	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers with ACTION PIN Contacts — PCB Mount — UL94V-0 (Install in PC Board with arbor press)							
3	3	In-Line	1.000 (25.40)	A25208-ND	6.09	4.37	173925-1
	4	In-Line	1.250 (31.75)	A25209-ND◆	7.41	5.32	173926-1

◆ *RoHS Compliant*

AMP .140" (3.56mm) MATE-N-LOK® Connectors

Housing Kits

Product Facts:

- .240 Center line spacing • Nylon, natural color and flammability rating UL94V-2 • Recognized under the component program of UL File No. E28476. Certified by Canadian Standards Assoc. File No. LR 7189A-381

Performance Characteristics:

- Dielectric Withstanding Voltage: 3.0K VAC between adjacent circuits • Insulation Resistance: 1000MΩ minimum initial between adjacent circuits • Voltage Rating: 250VAC or VDC • Durability: 25 cycles, mating and unmating • Thermal Shock: -55°C ~ 85°C
- Wire Size: 20-10AWG

Fig. 1

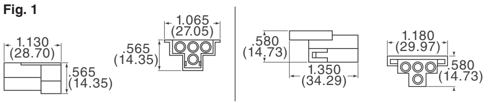

Pin Housing (Cap) Socket Housing (Plug)

Fig. 2

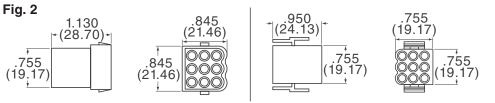

Pin Housing (Cap) Socket Housing (Plug)

Fig. 3

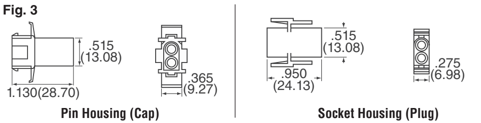

Pin Housing (Cap) Socket Housing (Plug)

Fig. 4

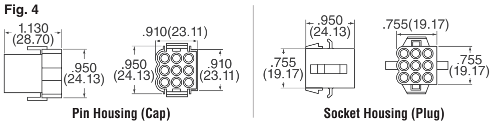

Pin Housing (Cap) Socket Housing (Plug)

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	Price Each 50	Price Each 100	AMP Part No.
Free-Hanging Housing								
1	Matrix	4	Cap	A25464-ND	1.35	1.05	.86	1-480512-0
	Matrix	4	Plug	A25465-ND	1.33	1.04	.85	1-480510-0
2	Matrix	9	Cap	A25466-ND	1.55	1.20	.99	1-480586-0
	Matrix	9	Plug	A25467-ND	1.44	1.12	.92	1-480585-0

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	Price Each 50	Price Each 100	AMP Part No.
Panel Mount Housing								
3	In-line	2	Cap	A25468-ND	.50	.39	.32	1-350345-0
	In-line	2	Plug	A25469-ND	.50	.39	.32	1-350344-0
	In-line	3	Cap	A25470-ND	.60	.47	.38	1-350347-0
	In-line	3	Plug	A25471-ND	.60	.47	.38	1-350346-0
4	Matrix	9	Cap	A25472-ND	1.27	.98	.81	1-480673-0
	Matrix	9	Plug	A25473-ND	1.27	.98	.81	1-480672-0

(Continued)

Contacts

Specification: • Pin diameter: .140” (3.57mm) • Stock thickness: .014” (.357mm)
Contact Plating: A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated

Pin Connector

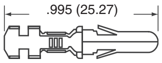

Socket Connector

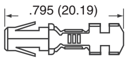

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing			AMP Part No.	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Strip Tape & Reel		AMP Part No.
					10	50	100			100	500	1,000		Qty.	Pricing	
Pin Contacts																
14 ~ 10	.100 ~ .180	Brass	B	A25460-ND	4.02	15.58	25.63	350391-1	A25460CT-ND	—	58.86	107.03	A25460TR-ND	2,500	85.62/M	350201-1
	(2.54 ~ 4.5)	Phos.Brz.	A	A25751-ND	6.64	25.74	42.33	350391-2	A25751CT-ND	—	148.31	269.65	A25751TR-ND	2,500	215.72/M	350201-2
	.098 ~ .177 (2.5 ~ 4.5)	Phos. Brz. Phos. Brz.	A A	A99295-ND	3.98	15.45	25.41	925662-2	—	—	—	—	—	—	—	—
20 ~ 14	.100 ~ .180	Brass	B	A25454-ND	4.02	15.58	25.63	350389-1	A25454CT-ND	—	61.30	111.45	A25454TR-ND	2,500	89.16/M	61627-1
	(2.54 ~ 4.5)	Phos. Brz.	A	—	—	—	—	—	A25456CT-ND	19.12	81.34	121.08	A25456TR-ND	2,500	124.18/M	61627-2
	.098 ~ .177 (2.5 ~ 4.5)	Brass	B	A99292-ND	5.14	19.94	32.79	925660-1	—	—	—	—	—	—	—	—
		Phos. Brz.	A	A99293-ND	3.92	15.21	25.02	925660-2	—	—	—	—	—	—	—	—
		Brass	B	—	—	—	—	—	A99298CT-ND	15.07	64.10	122.33	A99298TR-ND	2,500	97.86/M	925715-1
		Phos. Brz.	B	—	—	—	—	—	A99299CT-ND	14.06	59.80	89.02	A99299TR-ND	2,500	91.30/M	925715-2
Socket Contacts																
20-14	.100 ~ .180 (2.54 ~ 4.5)	Brass	B	A25455-ND	3.57	13.84	22.76	350388-1	A25455CT-ND	—	50.79	92.35	A25455TR-ND	2,500	73.88/M	61626-1
14 ~ 10	.100 ~ .180	Brass	B	A25461-ND	3.57	13.84	22.76	350390-1	A25461CT-ND	—	47.45	86.28	A25461TR-ND	2,500	69.02/M	350200-1
	(2.54 ~ 4.5)	Phos. Brz.	A	A25752-ND	4.61	17.89	29.42	350390-2	A25752CT-ND	—	76.40	138.90	A25752TR-ND	2,500	111.12/M	350200-2
	.098 ~ .177	Brass	B	A99296-ND	4.82	18.69	30.74	925663-1	—	—	—	—	—	—	—	—
	(2.5 ~ 4.5)	Phos. Brz.	A	A99297-ND	6.70	25.99	42.75	925663-2	—	—	—	—	—	—	—	—
20 ~ 14	.098 ~ .177 (2.5 ~ 4.5)	Brass Brass	B B	A99294-ND	3.65	14.15	23.26	925661-2	—	—	—	—	—	—	—	—
Tools																
CERTI-CRIMP without Die Set for 14-10AWG				A28006-ND	353.19/1			69710-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 14-12AWG				A9915-ND	1678.83/1			58374-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 10AWG				A9914-ND	3486.00/1			58373-1	—	—	—	—	—	—	—	—
Contact Extraction Tool				A25474-ND	91.38/1			318845-1	—	—	—	—	—	—	—	—
Crimp Tool for 20-14AWG				A98554-ND	2045.25/1			1901963-1	—	—	—	—	—	—	—	—

AMP .062” (1.57mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts:
• Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 • AMP .062” (1.57mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications:
• Thermal Shock: -55°C ~ 105°C • Temperature-Humidity Cycling: 25°C ~ 65°C at 90 ~ 95% RH • Durability: 50 mating cycles • Dielectric Withstanding Voltage: 1.0kVAC • Insulation Resistance: 1000MΩ minimum initial • Voltage Rating: 250VAC • Contact Rating: 24 ~ 30AWG: .5 ~ 1.5 Amps, 18 ~ 24AWG: 1.5 ~ 6 Amps • Contacts may be used in either plug or receptacle housings.

Fig. 1 — 1 Circuit, In-line

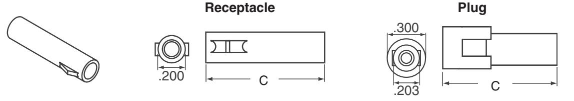

Fig. 2 — 2, 3 and 4 Circuit, In-line

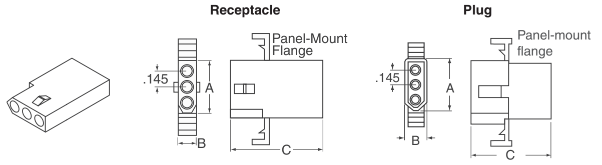

Fig. 3

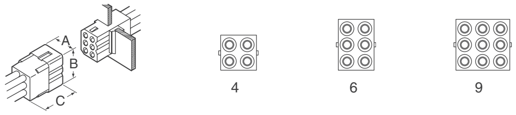

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Contact Insertion Tool	A9998-ND	19.77	91002-1
Contact Extraction Tool	A25483-ND	168.33	318831-1
Crimp Tool 24-30AWG with Die	A9819-ND	259.20	90870-1
Crimp Tool 18-24AWG with Die	A9820-ND	259.20	90869-1
PRO-CRIMPER III Hand Tool without Die	A9996-ND	45.36	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
PRO-CRIMPER III Die Set 18-24AWG, Use with A9996	A9957-ND	207.90	90869-2
PRO-CRIMPER III Die Set 24-30AWG, Use with A9996	A9956-ND	207.90	90870-2

Fig.	No of Circuits	Description	Dimension – Inch			Digi-Key Part No.	Pricing		AMP Part No.
			A	B	C		10	50	
Free-Hanging Housings									
Receptacles									
1	1	Receptacle, with Detent, In-line	—	—	.785	A14001-ND	.88	3.41	770277-1
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A14002-ND	2.33	6.67	770342-1
	2	Receptacle, Positive, In-line	.340	.199	.820	A25484-ND	3.15	12.23	770419-1
	3	Receptacle, with Detent, In-line	.490	.199	.785	A14003-ND	1.62	6.29	770333-1
	4	Receptacle, with Detent, In-line	.635	.199	.785	A14004-ND	5.58	21.64	770274-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A14005-ND	2.46	9.54	770442-1
	6	Receptacle, with Detent, Matrix	.345	.495	.785	A14006-ND	2.38	9.25	770356-1
	9	Receptacle, with Detent, Matrix	.490	.495	.790	A14007-ND	1.90	7.37	770429-1
Plugs									
1	1	Plug, with Detent, In-line	—	—	.750	A14008-ND	.88	3.43	770278-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A14009-ND	1.75	5.02	770340-1
	3	Plug, with Detent, In-line	.590	.300	.750	A14010-ND	1.78	6.89	770331-1
	4	Plug, with Detent, In-line	.733	.300	.750	A14011-ND	5.62	21.80	770275-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A14012-ND	2.46	9.54	770433-1
	6	Plug, with Detent, Matrix	.445	.600	.750	A14013-ND	2.15	8.35	770355-1
	9	Plug, with Detent, Matrix	.590	.600	.750	A14014-ND	2.34	9.07	770428-1
Panel Mount Housings; UL 94V-2									
Receptacles									
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A25485-ND	3.20	12.42	770343-1
	3	Receptacle, with Detent, In-line	.490	.199	.785	A25486-ND	3.84	14.88	770326-1
	4	Receptacle, with Detent, In-line	.635	.199	.785	A25487-ND	5.58	21.64	770335-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A25488-ND	2.46	9.54	770441-1
	6	Receptacle, with Detent, Matrix	.345	.495	.785	A25489-ND	5.72	22.17	770354-1
	9	Receptacle, with Detent, Matrix	.490	.495	.790	A25758-ND	1.90	7.37	770427-1
Plugs									
2	2	Plug, with Detent, In-line	.440	.300	.780	A25490-ND	2.91	11.30	770341-1
	3	Plug, with Detent, In-line	.590	.300	.750	A25491-ND	1.78	6.89	770332-1
	4	Plug, with Detent, In-line	.733	.300	.750	A25759-ND	5.62	21.80	770334-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A25492-ND	7.19	27.90	770443-1
	6	Plug, with Detent, Matrix	.445	.600	.750	A25760-ND	5.74	22.27	770353-1
	9	Plug, with Detent, Matrix	.590	.600	.750	A25761-ND	2.34	9.07	770426-1

Description	Insulation Diameter Range Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.†	Tape and Reel		AMP Part No.
			100	500			Qty.	Pricing	
.062” (1.57mm) Contacts									
Pin, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14016-ND	6.84	29.58	794018-1	A14016TR-ND	10,000	49.00/M	640391-1
Socket, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14048-ND	4.56	19.72	794019-1	A14048TR-ND	10,000	22.70/M	640392-1
Pin, 18-24AWG — Brass, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14015-ND	4.56	19.72	794017-1	A14015TR-ND	6,000	21.96/M	770983-1
Socket, 18-24AWG — Brass, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14049-ND	4.56	19.72	794016-1	A14049TR-ND	6,500	25.22/M	350628-1
Socket, 18-24AWG — Phosphor Bronze, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25480TR-ND	6,500	32.16/M	350628-2
Pin, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25481TR-ND	6,000	173.61/M	350629-5
Socket, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25482TR-ND	6,500	167.34/M	350628-5

† Tape and Reel (TR) is also available in Cut Tape.

AMP .093” (2.36mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts: • Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Free-hanging styles • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP.093” (2.36mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications: • Thermal Shock: -55°C ~ 105°C • **Temperature-Humidity Cycling:** 25°C ~ 65°C at 90-95% RH • **Durability:** 50 mating cycles • **Dielectric Withstanding Voltage:** 1.0k VAC • **Insulation Resistance:** 1000 MΩ minimum initial • **Voltage Rating:** 250VAC • Contact Rating: 2.0-10.0 Amps, 14-24 AWG • **Housing Material:** Nylon, natural color. Flammability Rating: UL94V-2 • **Contacts:** .010” (0.25mm) stock thickness. Select Gold is 30µ” minimum gold over nickel. Phosphor bronze contact should be used in high-temperature/humidity cycling applications.

Fig. 1 — 1 Circuit In-Line

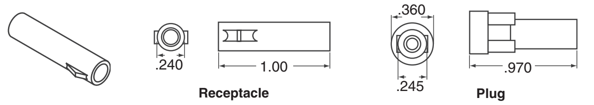

Fig. 2 — 2, 3, and 4 Circuit, In-Line

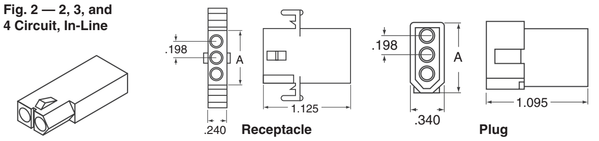

Fig. 3 — 5 Circuit, In-Line

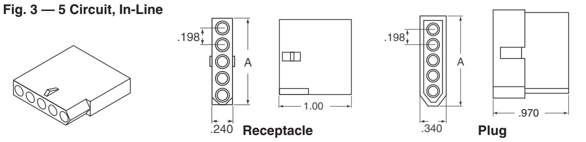

Fig. 4 — 4, 6, 9, 12, and 15 Circuit, Matrix

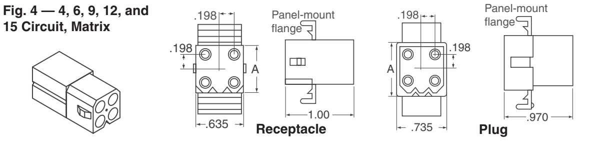

Fig. 5 — 3 Circuit, In-Line

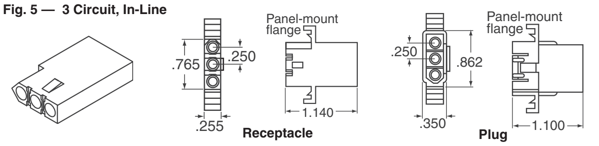

Fig. 6 — 4 Circuit, In-Line

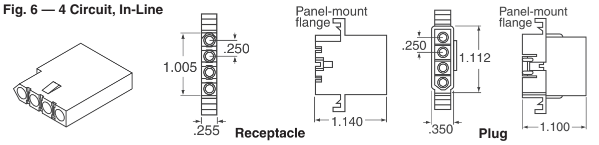

Fig. 7 — 6 Circuit, Matrix

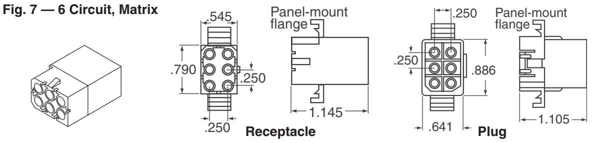

Fig. 8 — 2, 3 and 4 Circuit, In-Line

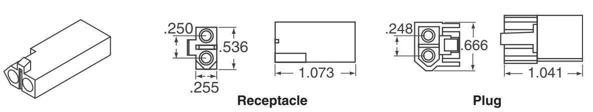

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 50	AMP Part No.
Free Hanging Housing — .198” (5.03mm) Centerline Spacing							
1	1	Receptacle, with Detent	—	A14050-ND	.73	2.84	770063-1
2	2	Receptacle, with Detent	.540 (13.72)	A14051-ND◊	2.36	6.75	770065-1
2	3	Receptacle, with Detent	.670 (17.02)	A14052-ND	1.84	7.12	770070-1
2	4	Receptacle, with Detent	.870 (22.10)	A14053-ND	2.12	8.22	770075-1
4	4	Receptacle, Square with Detent	.443 (11.25)	A14054-ND	2.92	11.34	770843-1
3	5	Receptacle, with Detent	1.070 (27.18)	A14055-ND	3.17	9.08	770083-1
4	6	Receptacle, with Detent	.435 (11.05)	A14056-ND	2.63	10.19	770086-1
4	9	Receptacle, with Detent	.670 (17.02)	A14057-ND	3.16	12.24	770092-1
4	12	Receptacle, with Detents	.870 (22.10)	A25528-ND	3.62	14.05	770098-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25529-ND	4.91	19.04	770105-1
1	1	Plug, without Mount Ears	—	A14058-ND	.84	3.27	770064-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14059-ND◊	2.82	8.08	770069-1
2	3	Plug, without Mount Ears	.770 (19.56)	A14060-ND	1.79	6.93	770074-1
2	4	Plug, without Mount Ears	.970 (24.64)	A14061-ND	2.01	7.80	770078-1
4	4	Plug Square, without Mount Ears	.540(13.71)	A14062-ND	6.89	26.73	770842-1
3	5	Plug, without Mount Ears	1.170 (29.72)	A14063-ND	2.44	6.97	770084-1
4	6	Plug, without Mount Ears	.535 (13.59)	A14064-ND	2.65	10.30	770090-1
4	9	Plug, without Mount Ears	.770 (19.56)	A14065-ND	3.04	11.81	770096-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25536-ND	3.12	12.12	770102-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25537-ND	4.42	17.13	770107-1
Panel-Mount — .198” (5.03mm) Centerline Spacing							
2	2	Receptacle, with Detents	.540 (13.72)	A14386-ND◊	1.62	6.28	770066-1
2	3	Receptacle, with Detents	.670 (17.02)	A14388-ND	1.93	7.50	770071-1
2	4	Receptacle, with Detents	.870 (22.10)	A14389-ND	2.12	8.22	770076-1
4	12	Receptacle, with Detents	.870 (22.10)	A25526-ND	8.13	31.54	770099-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25527-ND	4.91	19.04	770103-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14387-ND◊	4.40	17.06	770068-1
2	3	Plug, without Mount Ears	.770 (19.56)	A25530-ND	1.89	7.35	770073-1
2	4	Plug, without Mount Ears	.970 (24.64)	A25531-ND	2.01	7.80	770077-1
4	9	Plug, with Mount Ears at Wire End	.770 (19.56)	A25533-ND	10.01	38.82	770095-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25534-ND	9.25	35.89	770101-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25535-ND	9.01	34.95	770106-1
Free Hanging Housing — .250” (6.35mm) Centerline Spacing							
5	3	Receptacle, In-line	—	A25771-ND	2.91	11.29	770339-1
6	4	Receptacle, In-line	—	A25519-ND	3.47	13.44	770337-1
7	6	Receptacle, Matrix	—	A25772-ND	8.20	31.81	770360-1
8	2	Receptacle, Positive Lock, In-line	—	A25513-ND	2.40	9.32	770424-1
8	3	Receptacle, Positive Lock, In-line	—	A25514-ND	4.75	18.41	770785-1
8	4	Receptacle, Positive Lock, In-line	—	A25754-ND	9.44	36.63	770784-1
5	3	Plug, In-line	—	A25774-ND	2.19	8.51	770276-1
6	4	Plug, In-line	—	A25522-ND	3.37	13.08	770336-1
7	6	Plug, Matrix	—	A25523-ND	3.50	13.59	770361-1
8	2	Plug, Positive Lock, In-line	—	A25515-ND	3.14	12.18	770425-1
8	3	Plug, Positive Lock, In-line	—	A25516-ND	3.05	11.85	770783-1
8	4	Plug, Positive Lock, In-line	—	A25755-ND	11.96	46.41	770810-1
Panel-Mount — .250” (6.35mm) Centerline Spacing							
5	3	Receptacle, In-line	—	A25770-ND	2.15	8.33	770269-1
6	4	Receptacle, In-line	—	A25517-ND	3.47	13.44	770329-1
7	6	Receptacle, Matrix	—	A25518-ND	4.32	16.75	770372-1
5	3	Plug, In-line	—	A25773-ND	5.97	23.16	770338-1
6	4	Plug, In-line	—	A25520-ND	3.37	13.08	770330-1
7	6	Plug, Matrix	—	A25521-ND	3.64	14.12	770373-1

◊ 2 position has centerline .248

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die 14-20AWG	A9818-ND	259.20	90871-1
Crimp Tool with Die 18-24AWG	A9817-ND	259.20	90872-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	45.36	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	675221-1
Die Set 14-20AWG use with A9996	A9953-ND	310.50	90871-2
Die Set 18-24AWG use with A9996	A9952-ND	218.70	90872-2
Contact Insertion Tool	A9998-ND	19.77	91002-1
Contact Extraction Tool	A9950-ND	39.92	318837-1

Description	Insulated Diameter Inches (mm)	Digi-Key Part No.	Loose Piece Pricing 100	Loose Piece Pricing 500	AMP Part No.	Digi-Key Part No.†	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
.093” (2.36mm) Contacts — May be used in either plug or receptacle housings.									
Pin, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14098-ND	5.59	24.18	770147-1	—	—	—	—
Socket, 18-24AWG, Brass, Pre-tin		A14096-ND	5.59	24.18	770146-1	—	—	—	—
Pin, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25775-ND	25.46	110.10	770147-5	—	—	—	—
Socket, 18-24AWG, Brass, Select Gold		A25776-ND	27.21	117.66	770146-5	—	—	—	—
Pin, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14099-ND	5.59	24.18	770145-1	A14099TR-ND	4,000	29.20/M	350416-1
Socket, 14-20AWG, Brass, Pre-tin		A14097-ND	5.59	24.18	770144-1	A14097TR-ND	4,000	29.20/M	350415-1
Pin, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25778-ND	18.19	78.65	770145-5	A25778TR-ND	4,000	220.70/M	350416-5
Socket, 14-20AWG, Brass, Select Gold		A25779-ND	24.81	107.27	770144-5	A25779TR-ND	4,000	214.12/M	350415-5
Socket, 14-20AWG, Phosphor Bronze, Pre-tin	.140 (3.56)	—	—	—	—	A25509TR-ND	4,000	43.88/M	350415-6
Pin, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25510TR-ND§	3,750	33.52/M	770530-1
Socket, 14-20AWG, Brass, Pre-tin		—	—	—	—	A25511TR-ND§	3,750	33.52/M	770529-1
Pin, 14-18 or (2)18AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25512TR-ND‡	1,200	98.15/M	770385-1
Socket, 14-18 or (2)18AWG, Phosphor Bronze, Pre-tin		—	—	—	—	A25780TR-ND‡	1,200	242.89/M	770383-1

† Tape and Reel (TR) are also available in Cut Tape. § Contact length is .875 ‡ 0.013” (.33mm) stock thickness and accept two wires, each with maximum .180” insulation diameter

AMP (MR) Miniature Rectangular Connectors

Product Facts: • Housings positively lock to prevent accidental disengagement • Either cap or plug housing can be mounted in same rectangular panel cutout without additional hardware • Brick red UL 94V-0 housings • Plug and cap design includes molded-in polarizing feature to assure proper mating • High density achieved through .165" (4.19mm) contact centerline spacing • Recognized under the Component Program of Underwriters Laboratories, Inc. File No. E28476 • Certified by Canadian Standards Association File No. LR 7189 • Commoning bars can be used to common adjacent pin contacts in any column or row. Maximum stack per pin is two. Use the mating socket housing to assemble the Commoning Bar unto the pins. Illustration is the proper insertion of the Commoning Bar.

Performance Characteristics:

• **Dielectric Withstanding Voltage:** 2.5 KVAC between adjacent circuits • **Insulation Resistance:** 1500MΩ minimum initial between adjacent circuits • **Voltage Rating:** 250VAC • **Contact Rating:** AWG 26-18 – Test Current 1-6 Amps

Fig. 1

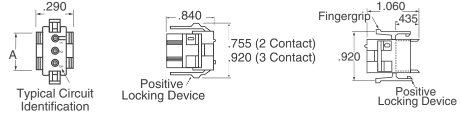

Fig. 2

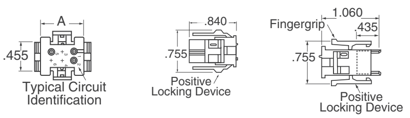

Fig. 3

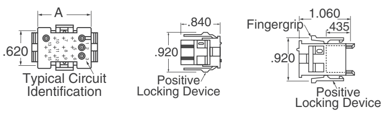

Fig. 4

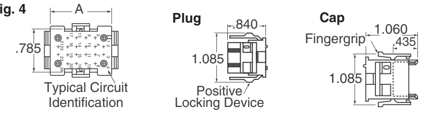

Fig. 5

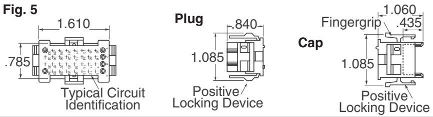

Fig. 6 - Strain Relief

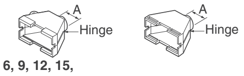

6, 9, 12, 15, & 20 Circuit

24 & 36 Circuit

Fig. 7 - Grommet

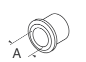

Fig. 8

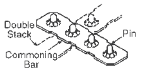

Fig. 9

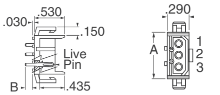

Fig. 10

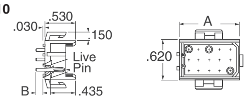

Fig. 11

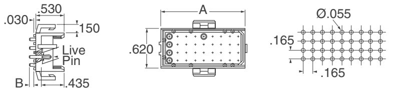

Fig. 12 - Pin

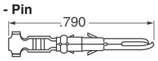

Fig. 13 - Socket

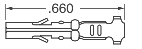

Fig. 14

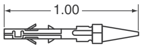

Fig. 15

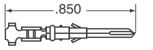

Fig. 16 Keying Plug

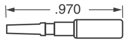

Fig.	No. of Pos.	Type	Dimension A (Inch)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
In-Line Housing (Contacts Sold Separately) — RoHS Compliant							
1	2	Cap	.455	A14100-ND	.80	18.00	1-640507-0
	3	Cap	.620	A14101-ND	1.19	27.00	1-640508-0
	2	Plug	.455	A14110-ND	.74	16.80	1-640517-0
	3	Plug	.620	A14111-ND	1.17	26.40	1-640518-0
Matrix Housing (Contacts Sold Separately) — RoHS Compliant							
2	4	Cap	.455	A14102-ND	1.27	28.80	1-640509-0
	6	Cap	.620	A14103-ND	1.46	33.00	1-640510-0
	4	Plug	.455	A14112-ND	1.38	31.20	1-640519-0
	6	Plug	.620	A14113-ND	1.19	27.00	1-640520-0
3	9	Cap	.620	A14104-ND	1.56	35.40	1-640511-0
	12	Cap	.785	A14105-ND	1.72	39.00	1-640512-0
	15	Cap	.950	A14106-ND	1.88	42.60	1-640513-0
	9	Plug	.620	A14114-ND	1.78	40.20	1-640521-0
	12	Plug	.785	A14115-ND	1.72	39.00	1-640522-0
	15	Plug	.950	A14116-ND	1.86	42.00	1-640523-0
4	20	Cap	.950	A14107-ND	2.99	67.80	1-640514-0
	24	Cap	1.115	A14108-ND	3.18	72.00	1-640515-0
	20	Plug	.950	A14117-ND	2.99	67.80	1-640524-0
	24	Plug	1.115	A14118-ND	3.21	72.60	1-640525-0
5	36	Cap	—	A14109-ND	3.47	78.60	1-640516-0
	36	Plug	—	A14119-ND	3.31	75.00	1-640526-0

Fig.	No. of Positions	Dimension A (Inch)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Strain Relief (Grommet – Sold Separately) — RoHS Compliant						
6	6	.374	A14120-ND	2.67	57.50	350373-1
	9	.420	A14121-ND	2.67	57.50	350522-1
	12	.420	A14122-ND	2.49	53.75	350374-1
	15	.420	A14123-ND	4.55	98.13	350523-1
	20	.560	A14124-ND	3.92	84.38	480634-1
	24	.560	A14125-ND	3.97	85.63	350524-1
	36	.560	A14126-ND	6.09	131.25	480594-1
Adapting Grommet (Flexible PVC – Black) — RoHS Compliant						
7	6	.156	A33358-ND	1.45	31.25	2-350377-0
	6	.218	A34928-ND	1.65	35.63	2-350376-0
	6	.296	A33156-ND	1.39	30.00	2-350375-0
	9, 12, 15	.218	A33359-ND	1.42	30.63	2-350378-1
	9, 12, 15	.250	A33157-ND	1.42	30.63	2-350379-1
	20, 24, 36	.312	A33154-ND	1.51	32.50	2-380937-0
	20, 24, 36	.375	A33158-ND	1.51	32.50	2-380936-0
	20, 24, 36	.437	A32609-ND	1.57	33.75	2-380935-0

Fig.	Description	Length	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Commoning Bar — RoHS Compliant						
8	2 Circuit, Brass, Pre-tin	.305	A25449-ND	.14	3.02	350020-1
	3 Circuit, Brass, Pre-tin	.470	A25450-ND	.16	3.38	350021-1
	4 Circuit, Brass, Pre-tin	.635	A25451-ND	.14	2.95	350022-1

Fig.	No. of Pos.	Plating	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
PCB Board Vertical Headers, .062" (1.57mm) (Mate with Plugs) Board Thickness								
9	2	Tin	.455	.120	A14200-ND◆	1.11	24.98	640497-1
	2	Gold	.455	.120	A14201-ND	2.76	62.10	640497-2
	2	Gold	.455	.120	A33360-ND◆	2.58	58.05	2-640497-2
	3	Tin	.620	.120	A14202-ND◆	1.38	31.05	640498-1
	3	Gold	.620	.120	A14203-ND	4.11	92.48	640498-2
	3	Gold	.620	.120	A33361-ND◆	3.84	86.40	2-640498-2
	4	Tin	.455	.120	A14204-ND◆	1.95	43.88	640499-1
	4	Gold	.455	.120	A33362-ND◆	4.80	108.00	2-640499-2
	6	Tin	.620	.120	A14206-ND◆	2.52	56.70	640500-1
	6	Gold	.620	.120	A14207-ND	7.02	157.95	640500-2
	6	Gold	.620	.120	A33363-ND◆	6.57	147.83	2-640500-2
10	9	Tin	.620	.120	A14208-ND◆	3.45	77.63	640501-1
	9	Gold	.620	.120	A14209-ND	9.75	219.38	640501-2
	9	Gold	.620	.120	A33364-ND◆	9.15	205.88	2-640501-2
10	12	Tin	.785	.120	A14210-ND◆	4.38	98.55	640502-1
	12	Gold	.785	.120	A14211-ND	20.10	452.25	640502-2
	12	Gold	.785	.120	A33365-ND◆	18.84	423.90	2-640502-2
	15	Tin	.950	.120	A14212-ND◆	5.49	123.53	640503-1
	15	Gold	.950	.120	A14213-ND	27.24	612.90	640503-2
11	20	Tin	.950	.120	A14214-ND◆	7.14	160.65	640504-1
	20	Gold	.950	.120	A33367-ND◆	19.77	444.83	2-640504-2
	24	Tin	1.115	.120	A14216-ND◆	7.95	178.88	640505-1
	24	Gold	1.115	.120	A33368-ND◆	22.74	511.65	2-640505-2
	36	Tin	1.610	.120	A14218-ND◆	12.03	270.68	640506-1
	36	Gold	1.610	.120	A33369-ND◆	44.01	990.26	2-640506-2
PCB Board Vertical Headers, .120" (3.05mm) (Mate with Plugs) Board Thickness								
9	2	Tin	.455	.180	A14220-ND◆	1.59	35.78	640497-3
	2	Gold	.455	.180	A33370-ND◆	2.58	58.05	2-640497-4
	3	Tin	.620	.180	A14222-ND◆	1.68	37.80	640498-3
	3	Gold	.620	.180	A14223-ND	4.11	92.48	640498-4
	3	Gold	.620	.180	A33371-ND◆	3.84	86.40	2-640498-4
	4	Tin	.455	.180	A14224-ND◆	1.98	44.55	640499-3
	4	Gold	.455	.180	A14225-ND	5.13	115.43	640499-4
	4	Gold	.455	.180	A33372-ND◆	4.80	108.00	2-640499-4
	6	Tin	.620	.180	A14226-ND◆	2.52	56.70	640500-3
	6	Gold	.620	.180	A14227-ND	7.02	157.95	640500-4
	6	Gold	.620	.180	A33373-ND◆	6.57	147.83	2-640500-4
10	9	Tin	.620	.180	A14228-ND◆	3.45	77.63	640501-3
	9	Gold	.620	.180	A14229-ND	14.22	319.95	640501-4
	9	Gold	.620	.180	A33374-ND◆	13.32	299.70	2-640501-4
	12	Tin	.785	.180	A14230-ND◆	4.38	98.55	640502-3
	12	Gold	.785	.180	A14231-ND	12.63	284.18	640502-4
	12	Gold	.785	.180	A33375-ND◆	11.82	265.95	2-640502-4
	15	Tin	.950	.180	A14232-ND◆	5.49	123.53	640503-3
	15	Gold	.950	.180	A14233-ND	15.39	346.28	640503-4
	15	Gold	.950	.180	A33376-ND◆	14.40	324.00	2-640503-4
11	24	Tin	1.115	.180	A14236-ND◆	7.95	178.88	640505-3
	36	Tin	1.610	.180	A14238-ND◆	12.03	270.68	640506-3
	36	Gold	1.610	.180	A14239-ND	75.63	1701.68	640506-4
	36	Gold	1.610	.180	A33379-ND◆	70.77	1592.33	2-640506-4

Fig.	Description	Ins. Dia. Range Inches	Digi-Key Part No.	Pricing 25	Pricing 100	AMP Part No.
Contacts: Pins (for Caps) and Sockets (for Plugs) — RoHS Compliant						
12	Live Split Pin, 24 ~ 26AWG, Phos. Brz., Pre-tin	.025 ~ .050	A25440-ND	8.68	21.42	640579-1
13	Std. Socket, 24 ~ 26AWG, Phos. Brz., Pre-tin	.025 ~ .050	A25441-ND	8.34	20.56	794001-1
12	Live Split Pin, 24 ~ 26AWG, Phos. Brz., Select Gold	.025 ~ .050	A25444-ND	33.63	82.96	640579-2
13	Std. Socket, 24 ~ 26AWG, Phos. Brz., Select Gold	.025 ~ .050	A25445-ND	33.16	81.80	794001-2
12	Live Split Pin, 18 ~ 26AWG, Phos. Brz., Pre-tin	.050 ~ .115	A14199-ND	7.63	18.83	640545-1
13	Std. Socket, 18 ~ 26AWG, Phos. Brz., Pre-tin	.050 ~ .115	A14197-ND	8.18	20.17	641300-1
12	Live Split Pin, 18 ~ 26AWG, Phos. Brz., Select Gold	.050 ~ .115	A14198-ND	28.93	71.37	640545-2
13	Std. Socket, 18 ~ 26AWG, Phos. Brz., Select Gold	.050 ~ .115	A14196-ND	26.65	65.73	641300-2
14	Solder Tail Socket, Phos. Brz., Pre-tin	—	A25447-ND‡	9.17	22.62	350838-1
15	Grounding Pin, Phos. Brz., Pre-tin	.050 ~ .115	A25442-ND	8.68	21.42	640580-1
Keying Plug — RoHS Compliant						
16	—		A14195-ND	—	59.20	350591-1
Tools						
	Die Set MR, Use with A9996		A9949-ND	207.90/1		58514-2
	PRO-CRIMPER III Hand Tool		A9996-ND	45.36/1		354940-1
	PRO-CRIMPER II/III Repair Kit		A34584-ND	41.96/1		679221-1
	Certi-Crimp Tool MR		A9938-ND	603.45/1		91526-1
	Contact Insertion Tool		A1444-ND	16.14/1		455830-1
	PRO-CRIMPER III Hand Tool/Die Set		A25448-ND	259.20/1		58514-1

‡ Recommended for use with MR Socket Housings ◆ ***RoHS Compliant***

AMPMODU MT Connectors

IDC CRIMP TYPE CONNECTOR/COVER FEATURES: • Receptacle connectors .100" (2.54mm) centers • Housings pre loaded with standard and high pressure contacts • Insulation Diameter: .050" (1.27mm) • Mating Post Length: .222" to .273" (5.64mm to 6.94mm) maximum • Housing and Cover: Black thermoplastic, flame retardant • Contacts: Copper alloy or Phosphor Bronze **RECEPTACLE HOUSING FEATURES:** • Choice of three contact mating pressures • Receptacles mate with .025" (.64mm) square or round posts • Capable of connecting up to 100 wires simultaneously • Black thermoplastic or glass- filled nylon • Available in single and double row configurations in .100" (2.54mm) center line spacing • Stamped: Cavity ID, AMP part number and date code stamped on housing where size permits. Unstamped: No marking on housing

Fig. 1

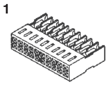

Fig. 2

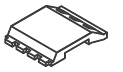

Fig. 3

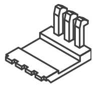

Fig. 4

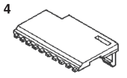

Use with IDC Crimp Type Housing - Fig 1

Fig. 5

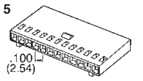

Fig. 6

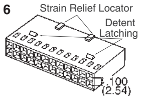

Fig. 7

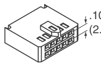

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
IDC CRIMP TYPE — HOUSING AND COVERS				
Fig. 1 — 26-30 AWG Housing With Standard Contacts				
6	A25789-ND	1.75	39.60	102393-1
6	A33380-ND◆	1.64	37.20	5-102393-1
8	A33381-ND◆	4.48	101.40	5-102393-2
10	A25791-ND	2.65	60.00	102393-3
10	A33382-ND◆	5.11	115.80	5-102393-3
12	A25793-ND	6.57	148.80	102393-4
12	A34929-ND◆	6.15	139.20	5-102393-4
14	A34930-ND◆	7.13	161.40	5-102393-5
16	A33383-ND◆	4.16	94.20	5-102393-6
18	A34931-ND◆	9.28	210.00	5-102393-7
20	A33384-ND◆	10.20	231.00	5-102393-8
24	A34935-ND◆	12.40	280.80	6-102393-0
26	A33385-ND◆	10.60	240.00	6-102393-1
30	A28702-ND	16.54	374.40	1-102393-3
34	A34937-ND◆	17.46	395.40	6-102393-5
40	A33387-ND◆	15.18	343.80	6-102393-8
50	A28708-ND	19.88	450.00	2-102393-3
50	A33418-ND◆	18.55	420.00	7-102393-3
Fig. 1 — 22-26 AWG Housing With Standard Contacts				
6	A3047-ND	4.03	91.20	102398-1
6	A33388-ND◆	3.79	85.80	5-102398-1
8	A3048-ND	5.04	114.00	102398-2
8	A33389-ND◆	4.69	106.20	5-102398-2
10	A3049-ND	5.46	123.60	102398-3
10	A33390-ND◆	5.11	115.80	5-102398-3
12	A3050-ND	6.63	150.00	102398-4
12	A33391-ND◆	6.17	139.80	5-102398-4
14	A3051-ND	7.61	172.20	102398-5
14	A33392-ND◆	7.13	161.40	5-102398-5
16	A3052-ND	8.32	188.40	102398-6
16	A33393-ND◆	7.84	177.60	5-102398-6
18	A33394-ND◆	8.61	195.00	5-102398-7
20	A3054-ND	10.89	246.60	102398-8
20	A33395-ND◆	9.88	223.80	5-102398-8
24	A3055-ND	13.25	300.00	1-102398-0
24	A33396-ND◆	12.40	280.80	6-102398-0
26	A28698-ND	8.98	203.40	1-102398-1
26	A33397-ND◆	8.16	184.80	6-102398-1
28	A28701-ND	15.37	348.00	1-102398-2
28	A33398-ND◆	14.39	325.80	6-102398-2
30	A28703-ND	16.54	374.40	1-102398-3
30	A33399-ND◆	15.48	350.40	6-102398-3
34	A3057-ND	18.60	421.20	1-102398-5
34	A33400-ND◆	17.46	395.40	6-102398-5
40	A3058-ND	16.22	367.20	1-102398-8
40	A33401-ND◆	15.18	343.80	6-102398-8
50	A3059-ND	19.88	450.00	2-102398-3
50	A33402-ND◆	18.55	420.00	7-102398-3
60	A3060-ND	23.37	529.20	2-102398-8
60	A33403-ND◆	21.89	495.60	7-102398-8
64	A3061-ND	35.09	794.40	3-102398-0
Fig. 1 — 22-26 AWG Housing With High Pressure Contacts				
6	A28711-ND	4.03	91.20	102694-1
6	A33404-ND◆	3.79	85.80	5-102694-1
8	A28712-ND	4.74	107.40	102694-2
8	A33405-ND◆	4.48	101.40	5-102694-2
10	A28713-ND	6.36	144.00	102694-3
10	A33406-ND◆	5.94	134.40	1-102694-0
12	A28714-ND	6.63	150.00	102694-4
12	A33407-ND◆	6.17	139.80	5-102694-4
14	A28715-ND	7.71	174.60	102694-5
14	A33408-ND◆	7.23	163.80	5-102694-5
Fig. 1 — 20-22 AWG Housing With Standard Contacts				
10	A33409-ND◆	5.11	115.80	5-102448-3
12	A34932-ND◆	6.15	139.20	5-102448-4
14	A33410-ND◆	7.23	163.80	5-102448-5
16	A25798-ND	8.77	198.60	102448-6
18	A25800-ND	9.86	223.20	102448-7
18	A33412-ND◆	9.28	210.00	5-102448-7
20	A25762-ND	10.89	246.60	102448-8
20	A33413-ND◆	10.20	231.00	5-102448-8
24	A28696-ND	13.25	300.00	1-102448-0
24	A33414-ND◆	12.40	280.80	6-102448-0
26	A28699-ND	11.29	255.60	1-102448-1
26	A33415-ND◆	10.60	240.00	6-102448-1
30	A28704-ND	16.54	374.40	1-102448-3
40	A33417-ND◆	19.74	447.00	6-102448-8
50	A28709-ND	19.88	450.00	2-102448-3
50	A33419-ND◆	18.55	420.00	7-102448-3
A2031-ND	Manual Pistol Grip Tool - use with Head Assembly			**$63.72**
A2040-ND	Head Assembly Tool for AMP MT Connector			**$355.20**

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
Fig. 2 — Low Profile Non-Polarizing — Front Cover (designed for shielded connectors) RoHS Compliant				
6	A28719-ND	.42	9.59	102541-1
8	A28720-ND	.66	15.00	102541-2
10	A28721-ND	.42	9.59	102541-3
12	A28722-ND	.63	14.31	102541-4
14	A28723-ND	.64	14.57	102541-5
16	A28724-ND	.68	15.35	102541-6
18	A28725-ND	.94	21.39	102541-7
20	A28726-ND	1.05	23.76	102541-8
24	A28727-ND	1.02	23.03	1-102541-0
26	A28728-ND	1.10	24.94	1-102541-1
34	A28731-ND	1.24	28.16	1-102541-5
40	A28732-ND	2.37	53.70	1-102541-8
50	A29145-ND	1.17	26.42	2-102541-3
60	A28733-ND	2.64	59.82	2-102541-8
Fig. 3 — Shielding and Non-Shielding - Back Cover RoHS Compliant				
6	A28735-ND	.42	9.59	102536-1
8	A28736-ND	1.54	34.96	102536-2
10	A28737-ND	.42	9.59	102536-3
12	A28738-ND	1.56	35.28	102536-4
14	A28739-ND	.77	17.35	102536-5
16	A28740-ND	1.28	29.05	102536-6
18	A28741-ND	1.19	27.00	102536-7
20	A28742-ND	.85	19.19	102536-8
26	A28744-ND	1.10	24.94	1-102536-1
30	A28746-ND	.78	17.66	1-102536-3
34	A28747-ND	1.52	34.32	1-102536-5
40	A28748-ND	2.19	49.60	1-102536-8
50	A28749-ND	2.35	53.12	2-102536-3
60	A28750-ND	2.50	56.63	2-102536-8
Fig. 4 — Standard Profile Covers (2 required per connector) — RoHS Compliant				
6	A3062-ND	2.48/2	56.09/50	102396-1
8	A3063-ND	2.91/2	65.93/50	102396-2
10	A3064-ND	3.16/2	71.45/50	102396-3
12	A3065-ND	3.40/2	76.97/50	102396-4
20	A3069-ND	2.99/2	67.59/50	102396-8
26	A28752-ND	3.45/2	78.01/50	1-102396-1
34	A3072-ND	4.06/2	91.96/50	1-102396-5
40	A3073-ND	3.39/2	76.75/50	1-102396-8
50	A3074-ND	6.63/2	150.02/50	2-102396-3
Keying Plug	A3077-ND	2.36/10	10.67/50	86286-1
Fig. 5 — SINGLE ROW HOUSING — NON-POLARIZED (order contacts separately)				
Stamped — RoHS Compliant				
2	A3011-ND	1.55	34.99	87499-3
3	A3012-ND	.99	22.48	87499-5
4	A3013-ND	.66	14.88	87499-7
5	A3014-ND	.53	11.90	87499-9
6	A3015-ND	.66	14.88	1-87499-1
7	A3016-ND	1.02	23.07	87499-1
8	A3017-ND	1.52	34.34	1-87499-3
9	A3018-ND	1.49	33.70	1-87499-5
10	A3019-ND	1.69	38.23	1-87499-7
11	A3020-ND	1.97	44.64	1-87499-9
12	A3021-ND	1.53	34.67	2-87499-1
13	A3022-ND	.51	11.51	2-87499-3
14	A3023-ND	1.57	35.64	2-87499-5
15	A3024-ND	1.50	34.02	2-87499-7
16	A3025-ND	1.59	35.96	2-87499-9
20	A3029-ND	1.90	43.09	3-87499-7
Unstamped — RoHS Compliant				
1	A26962-ND	.35	7.94	7-87499-2
2	A26963-ND	.39	8.93	87499-4
3	A26964-ND	.44	9.92	87499-6
4	A26965-ND	.48	10.91	87499-8
5	A26966-ND	.53	11.90	1-87499-0
6	A26967-ND	.57	12.90	1-87499-2
7	A26968-ND	.70	15.87	87499-2
8	A26969-ND	.70	15.87	1-87499-4
9	A26970-ND	.79	17.86	1-87499-6
10	A26971-ND	.79	17.86	1-87499-8
11	A26972-ND	1.75	39.68	2-87499-0
13	A26974-ND	1.01	22.82	2-87499-4
14	A26975-ND	.96	21.82	2-87499-6
15	A26976-ND	1.05	23.81	2-87499-8
16	A26977-ND	2.32	52.57	3-87499-0
18	A3027-ND	1.18	26.78	3-87499-4
20	A26978-ND	1.27	28.77	3-87499-8
22	A26979-ND	1.40	31.74	4-87499-2
30	A26981-ND	1.97	44.64	5-87499-8

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
Fig. 5 — SINGLE ROW HOUSING — POLARIZED (order contacts separately)				
Stamped with Detent — RoHS Compliant Latching				
3	A26982-ND	.66	14.90	102241-1
4	A26983-ND	.67	15.16	102241-2
5	A26984-ND	.67	15.23	102241-3
6	A26985-ND	.76	17.17	102241-4
7	A26986-ND	.77	17.33	102241-5
8	A26987-ND	.78	17.66	102241-6
9	A26988-ND	.79	17.82	102241-7
10	A26989-ND	1.13	25.63	102241-8
12	A26990-ND	1.14	25.92	1-102241-0
14	A26991-ND	1.15	26.05	1-102241-2
15	A26992-ND	1.15	26.08	1-102241-3
16	A26993-ND	1.32	29.84	1-102241-4
18	A26994-ND	1.33	30.10	1-102241-6
20	A26995-ND	2.29	51.84	1-102241-8
22	A26996-ND	2.30	52.00	2-102241-0
Fig. 6 — DOUBLE ROW HOUSING — NON-POLARIZED W/O Locator/Latches (order contacts separately)				
Stamped, Housing Height is .600" (15.24mm) RoHS Compliant				
4	A26998-ND	1.27	28.77	5-87456-0
6	A26999-ND	1.31	29.76	87456-2
10	A3034-ND	1.73	39.16	87456-6
12	A3035-ND	1.49	33.73	87456-8
14	A3036-ND	1.53	34.72	1-87456-0
16	A3037-ND	1.62	36.70	1-87456-2
18	A3038-ND	2.32	52.57	1-87456-4
20	A3039-ND	2.19	49.60	1-87456-6
24	A3040-ND	2.50	56.54	2-87456-0
26	A3041-ND	2.28	51.58	2-87456-2
28	A3042-ND	2.50	56.54	2-87456-4
30	A25819-ND	2.98	67.46	2-87456-6
34	A3043-ND	3.02	68.45	3-87456-0
40	A3044-ND	3.42	77.37	3-87456-6
50	A3045-ND	4.12	93.25	4-87456-0
60	A3046-ND	4.58	103.80	5-87456-2
Unstamped, Housing Height is .600" (15.24mm) RoHS Compliant				
2	A26997-ND	.79	17.86	5-87456-3
4	A3031-ND	1.10	24.80	4-87456-9
6	A3032-ND	1.18	26.78	87456-1
8	A3033-ND	1.27	28.77	87456-3
10	A25804-ND	1.31	29.76	87456-5
12	A25806-ND	1.36	30.75	87456-7
14	A25807-ND	1.40	31.74	87456-9
16	A25809-ND	1.45	32.74	1-87456-1
18	A25811-ND	2.10	47.61	1-87456-3
20	A25812-ND	1.84	41.66	1-87456-5
22	A25814-ND	2.23	50.59	1-87456-7
24	A25815-ND	2.02	45.63	1-87456-9
26	A25816-ND	2.15	48.61	2-87456-1
28	A25818-ND	2.28	51.58	2-87456-3
30	A25820-ND	2.72	61.50	2-87456-5
34	A25821-ND	2.67	60.51	2-87456-9
38	A25822-ND	3.07	69.44	3-87456-3
40	A25823-ND	3.33	75.39	3-87456-5
50	A25825-ND	4.07	92.25	3-87456-9
54	A25826-ND	4.29	97.21	4-87456-5
60	A25827-ND	4.51	102.00	5-87456-1
Keying Plug	A25829-ND	.20	4.49	87077-2
Stamped, Housing Height is .645" (16.38mm) RoHS Compliant				
26	A25817-ND	5.51	124.80	86177-4
Unstamped, Housing Height is .645" (16.38mm) RoHS Compliant				
10	A25805-ND	4.85	109.80	1-86177-2
16	A25810-ND	5.06	114.60	1-86177-5
20	A25813-ND	5.17	117.00	86177-1
40	A25824-ND	7.55	171.00	1-86177-1
Keying Plug	A25828-ND	.21	4.64	87077-1
Fig. 6 — DOUBLE ROW HOUSING — POLARIZED (order contacts separately)				
Stamped — RoHS Compliant				
6	A25830-ND	1.24	28.16	87977-1
8	A25832-ND	1.36	30.75	87977-2
10	A25834-ND	1.78	40.40	87977-3
12	A25836-ND	1.49	33.73	87977-4
20	A25841-ND	3.84	87.00	87977-8
24	A25843-ND	2.28	51.58	1-87977-0
26	A25845-ND	2.80	63.49	1-87977-1
Unstamped — RoHS Compliant				
6	A25831-ND	1.10	24.80	2-87977-8
8	A25833-ND	1.84	41.66	2-87977-9
10	A25835-ND	1.93	43.65	3-87977-0
12	A25837-ND	2.02	45.63	3-87977-1
14	A25838-ND	2.10	47.61	3-87977-2
16	A25839-ND	2.15	48.61	3-87977-3
18	A25840-ND	2.19	49.60	3-87977-4

◆ **RoHS Compliant**

(Continued)

AMPMODU MT Connectors *(Cont.)*

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
20	A25842-ND	2.19	49.60	3-87977-5
24	A25844-ND	2.23	50.59	3-87977-7
26	A25846-ND	2.58	58.53	3-87977-8
40	A25847-ND	3.15	71.42	4-87977-5
Stamped with Detent Latching, without Strain Relief RoHS Compliant				
6	A25848-ND	1.27	28.77	87631-2
8	A25850-ND	2.42	54.76	87631-4
10	A25852-ND	1.45	32.74	87631-6
12	A25855-ND	1.58	35.71	87631-8
14	A25858-ND	1.66	37.69	1-87631-0
16	A25861-ND	1.84	41.66	1-87631-2
18	A25864-ND	1.97	44.64	1-87631-4
20	A25867-ND	2.15	48.61	1-87631-6
24	A25871-ND	2.45	55.55	2-87631-0
26	A25874-ND	2.97	67.32	2-87631-2
28	A25877-ND	2.67	60.51	2-87631-4
30	A25879-ND	4.25	96.16	2-87631-6
32	A25882-ND	2.89	65.47	2-87631-8
34	A25885-ND	3.11	70.43	3-87631-0
40	A25888-ND	3.42	77.37	3-87631-6
50	A25892-ND	4.21	95.23	4-87631-2
60	A25895-ND	4.77	108.00	5-87631-2
Unstamped with Detent Latching, without Strain Relief RoHS Compliant				
6	A25849-ND	1.10	24.80	87631-1
8	A25851-ND	1.27	28.77	87631-3

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
10	A25853-ND	1.31	29.76	87631-5
12	A25856-ND	1.40	31.74	87631-7
14	A25859-ND	1.45	32.74	87631-9
16	A25862-ND	1.66	37.69	1-87631-1
18	A25865-ND	1.63	36.80	1-87631-3
20	A25868-ND	2.06	46.62	1-87631-5
22	A25870-ND	2.46	55.59	1-87631-7
24	A25872-ND	2.28	51.58	1-87631-9
26	A25875-ND	2.32	52.57	2-87631-1
28	A25878-ND	2.58	58.53	2-87631-3
30	A25880-ND	2.63	59.52	2-87631-5
32	A25883-ND	2.76	62.49	2-87631-7
34	A25886-ND	2.85	64.48	2-87631-9
40	A25889-ND	3.15	71.42	3-87631-5
44	A25891-ND	3.42	77.37	3-87631-9
50	A25893-ND	5.30	120.00	4-87631-1
60	A25896-ND	4.72	106.80	5-87631-1
Stamped with Detent Latching and Strain Relief RoHS Compliant				
10	A25854-ND	3.69	83.47	87922-1
12	A25857-ND	3.74	84.78	87922-2
14	A25860-ND	4.90	111.00	87922-3
16	A25863-ND	4.21	95.21	87922-4
18	A25866-ND	6.65	150.60	87922-5
20	A25869-ND	4.84	109.56	87733-1
24	A25873-ND	5.18	117.39	87733-3

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
26	A25876-ND	5.24	118.69	87733-4
30	A25881-ND	6.12	138.60	87733-6
34	A25887-ND	6.25	141.60	87733-8
40	A25890-ND	6.60	149.40	1-87733-1
50	A25894-ND	7.37	166.80	1-87733-4
60	A25897-ND	8.16	184.80	1-87733-7
A25899-ND	Strain Relief, 10 thru 18 positions			**$.79**
A25900-ND	Strain Relief, ≥20 positions			**$1.88**
Fig. 7 – Unstamped, Center Polarized – RoHS Compliant				
10	A25901-ND	2.33	52.81	102387-1
14	A25902-ND	2.34	52.97	102387-2
16	A25903-ND	2.93	66.39	102387-3
20	A25904-ND	3.29	74.52	102387-4
24	A25905-ND	3.29	74.55	102387-5
26	A25906-ND	3.47	78.57	102387-6
30	A25907-ND	3.48	78.89	102387-7
34	A25908-ND	5.56	125.87	102387-8
40	A25909-ND	4.95	112.07	102387-9
44	A25910-ND	5.02	113.72	1-102387-3
50	A25911-ND	5.58	126.36	1-102387-0
60	A25912-ND	5.61	127.01	1-102387-1
64	A25913-ND	5.65	127.98	1-102387-2
NEW! Latch for Amplatch Universal Headers RoHS Compliant NEW!				
—	A100197-ND	.61	13.77	1825851-1

◆ *RoHS Compliant*

AMP Contacts

SPECIFICATIONS: • Contact Current Rating: 3 amperes • Terminal Resistance: 12mΩ maximum (beryllium copper) and 20mΩ maximum (copper-tin-phosphor bronze) **FEATURES:** Available in a variety of platings and contact pressures; Dual cantilever contact beam with built-in overstress assures reliable connection. **Contact Plating: A:** 30µ gold on contact area, 100µ to 200µ tin-lead on crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 100µ to 200µ tin-lead in crimp end, with entire contact underplated 50µ nickel **C:** 30µ gold on contact area, with gold flash over 50µ nickel on entire contact **D:** 15µ gold on contact area, with gold flash over 50µ nickel on entire contact **E:** 100µ to 200µ bright tin over 30µ nickel on entire contact **F:** Gold flash over nickel, 15µ gold on contact area **G:** Gold flash over nickel, 30µ gold on contact area

Fig. 1

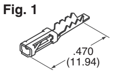

Fig. 2

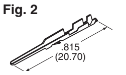

Fig. 3

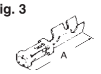

Fig.	Insulation Dia. - Max. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Pricing 10,000	AMP Part No.
Crimp Snap-In (No-strip) Receptacles												
1	.055 (1.40)	BeCu	C	A25943-ND	9.75	65.58	102348-2	—	—	—	—	—
	.055 (1.40)	BeCu	E	A25944-ND	7.32	49.23	102348-3	A25944CT-ND	219.00	A25944TR-ND	118.26/M	87107-6

Fig.	Dim. A	Wire Size (AWG)	Max. Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Pricing 12,500	AMP Part No.
Crimp Snap-In Pins with Insulation Support																
2	—	22-26	.061 (1.55)	Ph Bz	C	A25948-ND	7.02	47.24	102107-2	A25948CT-ND	—	151.46	275.38	A25948TR-ND	148.71/M	102095-3
		22-26	.061 (1.55)	Ph Bz	D	A25950-ND	7.34	49.41	102107-1	A25950CT-ND	—	162.06	294.65	A25950TR-ND	159.12/M	102095-2
		22-26	.061 (1.55)	Ph Bz	E	A25952-ND	3.50	23.57	102107-3	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Ph Bz	E	A33420-ND	3.31	22.30	5-102107-3	A33420CT-ND	—	62.48	113.60	A33420TR-ND	61.35/M	5-102095-4
Crimp Snap-In Receptacles with Insulation Support – Standard Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25953-ND	6.06	40.79	1-102316-4	—	—	—	—	—	—	—
		27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A33421-ND	5.74	38.59	6-102316-4	—	—	—	—	—	—	—
		27-32	.040 (1.02)	Cu-Sn-Ph Bz	B	A25955-ND	5.79	38.94	1-102316-3	—	—	—	—	—	—	—
		27-32	.040 (1.02)	Cu-Sn-Ph Bz	B	A33422-ND	5.48	36.84	6-102316-3	—	—	—	—	—	—	—
		27-32	.040 (1.02)	BeCu	C	A25957-ND	8.79	59.14	102917-2	A25957CT-ND	—	202.13	367.50	A25957TR-ND	198.46/M	102917-1
		27-32	.040 (1.02)	BeCu	D	—	—	—	—	A25958CT-ND	31.51	134.00	199.47	A25958TR-ND	138.10/M	102917-5
		27-32	.040 (1.02)	Cu-Sn-Ph Bz	E	—	—	—	—	A25959CT-ND	19.96	84.87	126.34	A25959TR-ND	87.47/M	102316-5
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25966-ND	6.06	40.79	1-87756-8	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A33423-ND	3.43	23.10	6-87756-8	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	B	A25968-ND	5.79	38.94	1-87756-6	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	B	A33424-ND	5.32	35.77	6-87756-6	—	—	—	—	—	—	—
		22-26	.061 (1.55)	BeCu	C	A3001-ND	7.00	47.11	87667-2	—	—	—	—	—	—	—
		22-26	.061 (1.55)	BeCu	D	A25972-ND	3.64	24.51	87667-5	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	E	A25970-ND	4.28	28.77	87756-7	—	—	—	—	—	—	—
		22-26	.061 (1.55)	BeCu	E	A3000-ND	2.87	19.32	87667-3	A3000CT-ND	—	113.88	207.05	A3000TR-ND	111.81/M	87666-3
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	F	A25969-ND	5.79	38.98	87756-5	A25969CT-ND	—	105.86	192.48	A25969TR-ND	103.94/M	87756-4
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	G	—	—	—	—	A25967CT-ND	27.40	116.54	173.47	A25967TR-ND	120.10/M	87756-2
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25984-ND	6.06	40.79	1-87523-9	A25984CT-ND	—	176.96	321.75	A25984TR-ND	173.75/M	1-87523-8
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A33425-ND	6.39	42.96	6-87523-9	A33425CT-ND	—	178.21	324.03	A33425TR-ND	174.98/M	6-87523-8
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	B	A25986-ND	4.52	30.40	1-87523-6	A25986CT-ND	—	174.80	317.83	A25986TR-ND	171.63/M	1-87523-5
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	B	A33426-ND	5.48	36.84	2-87523-4	A33426CT-ND	—	165.33	300.60	A33426TR-ND	162.33/M	2-87523-3
		20-24	.069 (1.75)	BeCu	C	A25988-ND	11.01	74.08	86016-1	—	—	—	—	—	—	—
		20-24	.069 (1.75)	BeCu	D	A25991-ND	7.89	53.07	86016-5	A25991CT-ND	—	252.92	459.85	A25991TR-ND	248.32/M	85969-6
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	D	—	—	—	—	A25996CT-ND	23.71	100.86	150.13	A25996TR-ND	103.94/M	87523-4
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	E	A25993-ND	3.37	22.66	87523-6	A25993CT-ND	—	101.86	185.20	A25993TR-ND	100.01/M	87523-5
		20-24	.069 (1.75)	BeCu	E	A25995-ND	5.58	37.57	86016-3	A25995CT-ND	—	145.90	265.28	A25995TR-ND	143.25/M	85969-9
		20-24	.069 (1.75)	BeCu	G	A25989-ND	5.58	37.53	86016-2	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – Intermediate Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25961-ND	6.06	40.79	102920-2	—	—	—	—	—	—	—
		27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A33427-ND	5.74	38.59	5-102920-2	—	—	—	—	—	—	—
		27-32	.040 (1.02)	BeCu	C	A25963-ND	8.61	57.91	102918-2	A25963CT-ND	—	246.00	447.28	A25963TR-ND	241.53/M	102918-1
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25976-ND	6.06	40.79	103171-5	A25976CT-ND	—	111.39	202.53	A25976TR-ND	109.37/M	103171-4
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A33428-ND	5.74	38.59	5-103171-5	A33428CT-ND	—	105.37	191.58	A33428TR-ND	103.46/M	5-103171-4
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	B	—	—	—	—	A25977CT-ND	24.11	102.53	152.63	A25977TR-ND	105.67/M	103171-1
		22-26	.061 (1.55)	Cu-Sn-Ph Bz	B	—	—	—	—	A33429CT-ND	—	96.99	144.38	A33429TR-ND	99.96/M	5-103171-1
		22-26	.061 (1.55)	BeCu	C	A25979-ND	6.87	46.23	102548-6	A25979CT-ND	—	234.44	426.25	A25979TR-ND	230.18/M	102548-5
		22-26	.061 (1.55)	BeCu	D	A25981-ND	7.08	47.66	102548-3	A25981CT-ND	—	226.04	410.98	A25981TR-ND	221.93/M	102548-1
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25998-ND	6.06	40.79	2-87195-1	A25998CT-ND	—	176.98	321.78	A25998TR-ND	173.76/M	2-87195-0
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	B	A28315-ND	5.79	38.94	1-87195-8	—	—	—	—	—	—	—
		20-24	.069 (1.75)	Cu-Sn-Ph Bz	B	—	—	—	—	A33431CT-ND	—	121.34	220.63	A33431TR-ND	119.14/M	2-87195-4
		20-24	.069 (1.75)	BeCu	C	A28319-ND	11.10	74.67	87046-2	A28319CT-ND	—	182.82	332.40	A28319TR-ND	179.50/M	86492-4
		20-24	.069 (1.75)	BeCu	D	A28317-ND	6.14	41.30	87046-1	—	—	—	—	—	—	—
		20-24	.069 (1.75)	BeCu	E	A3005-ND	6.68	44.91	87046-4	A3005CT-ND	—	181.45	329.90	A3005TR-ND	178.15/M	86492-9
		20-24	.069 (1.75)	BeCu	G	A3006-ND	7.20	48.40	87046-3	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – High Pressure																
3	.445	27-32	.040 (1.02)	Ph Bz	C	A25965-ND	8.38	56.40	103455-2	A25965CT-ND	—	223.45	406.28	A25965TR-ND	219.39/M	103455-1
		22-26	.061 (1.55)	Ph Bz	C	A3004-ND	5.04	41.83	102128-1	—	—	—	—	—	—	—
		22-26	.061 (1.55)	Ph Bz	E	A3003-ND	4.10	27.55	102128-2	A3003CT-ND	—	94.85	172.45	A3003TR-ND	93.13/M	87809-2
	.470	20-24	.069 (1.75)	Ph Bz	C	A3008-ND	4.83	40.06	1-87309-4	—	—	—	—	—	—	—
		20-24	.069 (1.75)	Ph Bz	E	A3007-ND	3.86	26.00	1-87309-3	—	—	—	—	—	—	—

A99114-ND (91541-1)	Crimp Tool MT Connectors 27-32AWG	**$603.45**
A9840-ND (91516-1)	Crimp Tool MT Connectors 20-24AWG	**$603.45**
A9903-ND (91517-1)	Crimp Tool MT Connectors 22-26AWG	**$603.45**
A3077-ND (86286-1)	Keying Plug for Standard or Intermediate Contacts	**$2.36/10**

AMPMODU Locking Clip Contacts and Housings

FEATURES: • Mates with .025" (.64mm) square posts
- Modular design permits end-to-end stacking
- Housing made of 94V-0 rated glass-filled polyester
- Stamped: cavity ID, Amp part number and date code stamped on housing where size permits. Unstamped: no marking on housing

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum (gold plated contacts) or 16mΩ maximum (tin plated contacts)

MATERIAL: Glass-filled polyester, 94V-0

Fig. 1

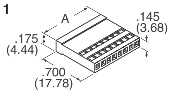

Fig. 2

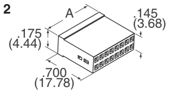

Fig.	No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Row (order contacts separately) — RoHS Compliant							
1	1	.108 (2.74)	Unstamped	A26920-ND	1.04	.95	87175-2
	2	.216 (5.49)	Unstamped	A26921-ND	.98	.90	87175-6
	3	.316 (8.03)	Unstamped	A26922-ND	1.79	1.63	87175-8
	4	.416 (10.57)	Unstamped	A26923-ND	1.32	1.20	1-87175-0
	5	.516 (13.11)	Unstamped	A26924-ND	1.36	1.24	1-87175-2
	6	.616 (15.65)	Unstamped	A26925-ND	2.09	1.90	1-87175-4
	6	.616 (15.65)	Stamped	A26926-ND	1.43	1.30	1-87175-3
	7	.716 (18.19)	Unstamped	A26927-ND	2.33	2.12	1-87175-6
	7	.716 (18.19)	Stamped	A26928-ND	1.46	1.32	1-87175-5
	8	.816 (20.73)	Unstamped	A26929-ND	2.68	2.43	1-87175-8
	8	.816 (20.73)	Stamped	A26930-ND	1.48	1.35	1-87175-7
	9	.916 (23.27)	Unstamped	A26931-ND	2.73	2.48	2-87175-0
	10	1.016 (25.81)	Unstamped	A26933-ND	2.68	2.43	2-87175-2
	10	1.016 (25.81)	Stamped	A26934-ND	1.54	1.40	2-87175-1

Fig.	No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	11	1.116 (28.35)	Stamped	A26936-ND	1.51	1.37	2-87175-3
	12	1.216 (30.89)	Unstamped	A26937-ND	2.99	2.72	2-87175-6
	12	1.216 (30.89)	Stamped	A26938-ND	1.67	1.52	2-87175-5
	13	1.316 (33.43)	Unstamped	A26939-ND	3.13	2.84	2-87175-8
	14	1.416 (35.97)	Unstamped	A26940-ND	3.26	2.96	3-87175-0
	15	1.516 (38.51)	Stamped	A26942-ND	2.20	2.00	87175-3
Double Row (order contacts separately) — RoHS Compliant							
2	2	.116 (2.95)	Unstamped	A26943-ND	1.74	1.58	87176-2
	4	.216 (5.49)	Unstamped	A26944-ND	2.25	2.04	87133-1
	6	.316 (8.03)	Unstamped	A26945-ND	2.23	2.02	87133-7
	6	.316 (8.03)	Stamped	A26946-ND	1.43	1.30	87133-8
	10	.516 (13.11)	Unstamped	A26947-ND	1.76	1.60	87133-2
	10	.516 (13.11)	Stamped	A26948-ND	1.54	1.40	87133-5
	12	.616 (15.65)	Unstamped	A26949-ND	2.84	2.57	1-87133-1
	20	1.016 (25.81)	Unstamped	A26950-ND	3.63	3.29	87133-3

Locking Clip Contacts

MATERIAL: Stainless steel spring

Contact Plating: A: 30µ gold on contact area, with gold flash over 50µ nickel on the entire contact **B:** 100µ - 200µ bright tin over 50µ nickel on entire contact **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

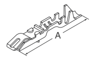

Wire Size (AWG)	Dim. A Inch (mm)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	10	25	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T & R Pricing 7,000	AMP Part No.
28-30	.550 (13.97)	.029-.039 (.74-.99)	A	A26951-ND◆	.65	—	14.63	41.46	87191-1	A26951CT-ND◆	75.32	345.21	A26951TR-ND◆	376.59/M	87190-1
28-30	.550 (13.97)	.029-.039 (.74-.99)	C	A26952-ND	.48	—	10.82	30.66	87191-2	—	—	—	—	—	—
28-30	.550 (13.97)	.029-.039 (.74-.99)	B	A34241-ND◆	.45	—	10.14	28.73	5-87191-2	A34241CT-ND◆	78.93	361.76	A34241TR-ND◆	394.65/M	5-87190-2
22-26	.584 (14.83)	.038-.062 (.97-1.57)	A	A26954-ND◆	—	7.24	—	48.69	87165-1	A26954CT-ND◆	61.43	281.53	A26954TR-ND◆	307.13/M	87124-1
22-26	.584 (14.83)	.038-.062 (.97-1.57)	C	A26956-ND	—	4.96	—	33.37	87165-2	A26956CT-ND	50.87	233.16	A26956TR-ND	254.36/M	87124-2
22-26	.584 (14.83)	.038-.062 (.97-1.57)	B	A34242-ND◆	—	4.65	—	31.26	5-87165-2	A34242CT-ND◆	46.27	212.08	A34242TR-ND◆	231.36/M	5-87124-2
20	.584 (14.83)	.038-.062 (.97-1.57)	A	—	—	—	—	—	—	A26957CT-ND◆	77.44	329.39	A26957TR-ND◆	377.16/M	867052-2
20	.584 (14.83)	.038-.062 (.97-1.57)	C	—	—	—	—	—	—	A26958CT-ND	58.13	247.24	A26958TR-ND	283.10/M	867052-1
20	.584 (14.83)	.038-.062 (.97-1.57)	C	—	—	—	—	—	—	A36217CT-ND◆	54.45	231.59	A36217TR-ND◆	265.19/M	5-867052-1

A26960-ND◆	Keying Plug for .025" (.64mm) sq. post contacts	**$.18/1, $4.16/25**
A26961-ND	Extraction Tool	**$21.51**
A30043-ND	Crimp Tool for 22-26 AWG contacts	**$603.45**

◆ ***RoHS Compliant***

AMPMODU Short Point Wire-Applied Connectors and Contacts

Fig. 1

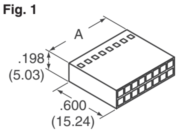

Fig. 2

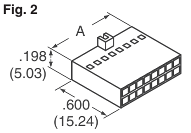

FEATURES:
- Short point of contact mates with .169" ~ .259" (4.29mm ~ 6.58mm)
- Double row housings are end-to-end and side-to-side stackable
- Terminates 20-32 AWG discrete wire • Mates with .025" (.64mm) square posts • Dual cantilever contact beams for reliable matings

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum

MATERIAL:
- Black thermoplastic, flame retardant, 94V-0

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Double Row, Non-Polarized — RoHS Compliant (order contacts separately)						
1	4	.198 (5.03)	A25914-ND	1.02	.93	104482-1
	6	.298 (7.57)	A25915-ND	1.04	.95	104482-2
	8	.398 (10.11)	A25916-ND	1.05	.96	104482-3
	10	.498 (12.65)	A25917-ND	1.06	.96	104482-4
	12	.598 (15.19)	A25918-ND	1.06	.97	104482-5
	14	.698 (17.73)	A25919-ND	1.07	.97	104482-6
	16	.798 (20.27)	A25920-ND	1.08	.98	104482-7
	18	.898 (22.81)	A25921-ND	1.10	1.00	104482-8
	20	.998 (25.35)	A25922-ND	1.11	1.01	104482-9
	22	1.098 (27.89)	A25923-ND	1.14	1.03	1-104482-0
	26	1.298 (32.97)	A25924-ND	1.16	1.05	1-104482-1
	28	1.398 (35.51)	A25925-ND	1.17	1.07	1-104482-2
	30	1.498 (38.05)	A25926-ND	1.23	1.12	1-104482-3
	32	1.598 (40.59)	A25927-ND	1.24	1.13	1-104482-4
	34	1.698 (43.13)	A25928-ND	1.30	1.18	1-104482-5

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	36	1.798 (45.67)	A25929-ND	1.31	1.19	1-104482-6
	38	1.898 (48.21)	A25930-ND	1.33	1.21	1-104482-7
	40	1.998 (50.75)	A25931-ND	1.34	1.22	1-104482-8
	44	2.198 (55.83)	A25932-ND	2.30	2.09	1-104482-9
Double Row, Polarized — RoHS Compliant (order contacts separately)						
2	8	.398 (10.11)	A25934-ND	1.06	.96	104483-1
	14	.698 (17.73)	A25935-ND	1.04	.95	104483-9
	18	.898 (22.81)	A25936-ND	1.06	.97	104483-2
	20	.998 (25.35)	A25937-ND	1.08	.98	104483-3
	26	1.298 (32.97)	A25938-ND	1.16	1.06	104483-4
	30	1.498 (38.05)	A25939-ND	1.23	1.12	104483-5
	38	1.898 (48.21)	A25940-ND	1.29	1.18	104483-6
	54	2.698 (68.53)	A25941-ND	2.34	2.12	104483-7
	64	3.198 (81.23)	A25942-ND	2.42	2.20	104483-8

Short Point Crimp Snap-In Receptacle Contacts

MATERIAL: Copper alloy C7025 **Contact Plating: A:** 30µ gold on contact area, with tin-lead over 50µ nickel on the crimp area **B:** 15µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

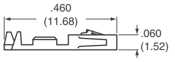

Wire Size (AWG)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Pricing 15,000	AMP Part No.
28-32	.025-.060 (.64-1.52)	A	A28323-ND	2.16	14.53	104481-8	—	—	—	—	—
28-32	.025-.060 (.64-1.52)	A	A34336-ND◆	1.63	10.99	1-104481-3	A34336CT-ND◆	78.93	A34336TR-ND◆	42.62/M	1-104481-1
28-32	.025-.060 (.64-1.52)	B	A28325-ND	1.90	12.81	104481-7	—	—	—	—	—
28-32	.025-.060 (.64-1.52)	B	A34337-ND◆	1.90	12.81	1-104481-2	—	—	—	—	—
28-32	.025-.060 (.64-1.52)	C	A28326-ND	1.51	10.13	104481-6	—	—	—	—	—
28-32	.025-.060 (.64-1.52)	C	A34246-ND◆	1.42	9.58	5-104481-6	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	A	A28327-ND	1.73	11.62	104480-9	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	A	A32513-ND◆	1.37	9.20	1-104480-6	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	B	A28328-ND	1.90	12.81	104480-8	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	B	A32512-ND◆	1.40	9.41	1-104480-5	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	C	A28329-ND	1.51	10.13	104480-7	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	C	A32511-ND◆	1.38	9.30	1-104480-4	—	—	—	—	—
20-24	.025-.060 (.64-1.52)	A	A28331-ND	2.16	14.53	104479-7	—	—	—	—	—
20-24	.025-.060 (.64-1.52)	A	A34249-ND◆	1.63	10.99	1-104479-3	A34249CT-ND◆	76.60	A34249TR-ND◆	41.37/M	1-104479-0
20-24	.025-.060 (.64-1.52)	B	A28333-ND	1.90	12.81	104479-6	A28333CT-ND	73.53	A28333TR-ND	36.77/M	104479-3
20-24	.025-.060 (.64-1.52)	B	—	—	—	—	A34250CT-ND◆	101.18	A34250TR-ND◆	54.64/M	104479-9
20-24	.025-.060 (.64-1.52)	C	A34251-ND◆	1.71	11.52	1-104479-1	A34251CT-ND◆	117.13	A34251TR-ND◆	63.25/M	104479-8

A29087-ND	Crimp Hand Tool for 28-32 AWG and 22-26 AWG	**$603.45**
A100173-ND	***NEW!*** Crimp Hand Tool for 20-26 AWG	**$1513.58**
A29088-ND	Extraction Tool	**$20.91**

◆ ***RoHS Compliant***

AMPMODU MTE Interconnection System

The AMPMODU® MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025" (0.64mm) square post technology. **FEATURES:** • Insulation displacement technology • Plain housings are end-to-end and/or back-to-back stackable for open pin field applications **ELECTRICAL CHARACTERISTICS:** • Contact Current Rating: 3amp • Contact Termination Resistance: 15mΩ (maximum) • Dielectric Withstanding Voltage: 600VAC, rms at sea level • Operating Temperature: -65°C ~ 105°C **MATERIAL:** • Housing: Black thermoplastic, 94V-0 rated • Contacts: Phosphor bronze or Copper Alloy

Contact Plating:
A: 30µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel
B: 15µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel
C: 100µ bright tin-lead over 50µ nickel on entire contact
Unloaded: No contacts in housing

Fig. 1 - Receptacle

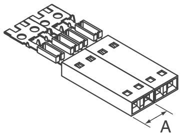

Fig. 2 - Receptacle

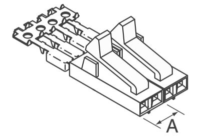

Fig. 3 - Pin

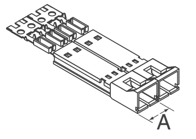

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
RECEPTACLE ASSEMBLIES — Single Row .100" (2.54mm), 26-22 AWG							
Fig. 1 — Strip Form Plain							
2	A	.198 (5.03)	A28349-ND	10	5.55/10	55.29/110	103976-1
	B	.198 (5.03)	A28350-ND	10	6.37/10	63.48/110	103975-1
	C	.198 (5.03)	A28351-ND	10	6.49/10	64.69/110	103974-1
3	A	.298 (7.57)	A28353-ND	8	5.47/8	44.56/72	103976-2
5	A	.498 (12.65)	A28361-ND	4	5.75/4	57.26/44	103976-4
7	B	.698 (17.73)	A28369-ND	2	2.70/2	36.63/30	103975-6
2	Unloaded	.195 (5.03)	A28352-ND◆†	1	.29/1	6.62/25	103688-1
3	Unloaded	.298 (7.57)	A28356-ND◆†	1	.32/1	7.30/25	103688-2
4	Unloaded	.398 (10.11)	A28360-ND◆†	1	.35/1	8.02/25	103688-3
6	Unloaded	.598 (15.19)	A28367-ND◆†	1	.52/1	11.88/25	103688-5
7	Unloaded	.698 (17.73)	A28371-ND◆†	1	.54/1	12.13/25	103688-6
8	Unloaded	.798 (20.27)	A28375-ND◆†	1	.57/1	12.87/25	103688-7
9	Unloaded	.898 (22.81)	A28378-ND◆†	1	.66/1	14.85/25	103688-8
10	Unloaded	.998 (23.35)	A28382-ND◆†	1	.69/1	15.59/25	103688-9
11	Unloaded	1.098 (27.89)	A28385-ND◆†	1	1.12/1	25.42/25	1-103688-0
12	Unloaded	1.198 (30.43)	A28389-ND◆†	1	1.18/1	26.68/25	1-103688-1
Fig. 1 — Strip Form Plain, RoHS Compliant							
2	A	.198 (5.03)	A34956-ND	10	5.65/10	56.26/110	5-103976-1
	B	.198 (5.03)	A34176-ND	10	5.97/10	59.44/110	5-103975-1
	C	.198 (5.03)	A34177-ND	10	6.08/10	60.57/110	5-103974-1
3	A	.298 (7.57)	A34957-ND	8	5.42/8	44.18/72	5-103976-2
	B	.298 (7.57)	A34950-ND	8	5.12/8	41.71/72	5-103975-2
	C	.298 (7.57)	A34178-ND	8	4.47/8	36.44/72	5-103974-2
4	A	.398 (10.11)	A34179-ND	5	4.43/5	44.17/55	5-103976-3
	B	.398 (10.11)	A34951-ND	5	5.04/5	50.17/55	5-103975-3
	C	.398 (10.11)	A34180-ND	5	3.20/5	31.89/55	5-103974-3
5	A	.498 (12.65)	A34181-ND	4	3.77/4	37.53/44	5-103976-4
	B	.498 (12.65)	A34952-ND	4	3.39/4	33.79/44	5-103975-4
	C	.498 (12.65)	A34182-ND	4	4.12/4	41.05/44	5-103974-4
6	A	.598 (15.19)	A34183-ND	4	6.46/4	52.64/36	5-103976-5
	B	.598 (15.19)	A34953-ND	4	3.82/4	31.13/36	5-103975-5
	C	.598 (15.19)	A34946-ND	4	4.90/4	39.94/36	5-103974-5
7	A	.698 (17.73)	A34958-ND	2	3.74/2	50.74/30	5-103976-6
8	A	.798 (20.27)	A34959-ND	2	4.16/2	48.95/26	5-103976-7
	C	.798 (20.27)	A34948-ND	2	3.12/2	36.71/26	5-103974-7
9	A	.898 (22.81)	A34960-ND	2	4.51/2	49.01/24	5-103976-8
10	A	.998 (23.35)	A34961-ND	2	4.92/2	49.00/22	5-103976-9
	B	.998 (23.35)	A34955-ND	2	3.48/2	34.64/22	5-103975-9
11	B	1.098 (27.89)	A35067-ND	2	4.44/2	40.21/20	6-103975-0
12	A	1.198 (30.43)	A34966-ND	2	5.79/2	47.20/18	6-103976-1
	B	1.198 (30.43)	A34965-ND	2	4.79/2	39.03/18	6-103975-1
Fig. 2 — Strip Form Polarized/Latching							
2	A	.198 (5.03)	A28390-ND	10	6.57/10	65.45/110	103958-1
	B	.198 (5.03)	A28391-ND	10	5.63/10	56.05/110	103957-1
	C	.198 (5.03)	A28392-ND	10	5.28/10	52.59/110	103956-1
3	A	.298 (7.57)	A28394-ND	8	6.17/8	50.33/72	103958-2
	B	.298 (7.57)	A28395-ND	8	3.68/8	29.96/72	103957-2
	C	.298 (7.57)	A28396-ND	8	5.01/8	40.83/72	103956-2
4	A	.398 (10.11)	A28398-ND	5	4.67/5	46.56/55	103958-3
	B	.398 (10.11)	A28399-ND	5	4.05/5	40.33/55	103957-3
	C	.398 (10.11)	A28400-ND	5	3.70/5	36.88/55	103956-3
5	A	.498 (12.65)	A28402-ND	4	4.57/4	45.53/44	103958-4
	B	.498 (12.65)	A28403-ND	4	3.95/4	39.31/44	103957-4
	C	.498 (12.65)	A28404-ND	4	3.60/4	35.85/44	103956-4
6	A	.598 (15.19)	A28406-ND	4	5.44/4	44.34/36	103958-5
	B	.598 (15.19)	A28407-ND	4	4.69/4	38.24/36	103957-5
	C	.598 (15.19)	A28408-ND	4	3.27/4	26.68/36	103956-5
7	A	.698 (17.73)	A28410-ND	2	3.15/2	42.73/30	103958-6
	B	.698 (17.73)	A28411-ND	2	2.71/2	36.79/30	103957-6
8	A	.798 (20.27)	A28414-ND	2	3.50/2	41.20/26	103958-7
	B	.798 (20.27)	A28415-ND	2	3.00/2	35.32/26	103957-7
	C	.798 (20.27)	A28416-ND	2	3.89/2	45.78/26	103956-7
9	A	.898 (22.81)	A28418-ND	2	3.79/2	41.22/24	103958-8
	B	.898 (22.81)	A28419-ND	2	2.16/2	23.50/24	103957-8
	C	.898 (22.81)	A28420-ND	2	2.92/2	31.72/24	103956-8
10	A	.998 (23.35)	A28422-ND	2	4.13/2	41.19/22	103958-9
	B	.998 (23.35)	A28423-ND	2	3.51/2	34.97/22	103957-9
	C	.998 (23.35)	A28424-ND	2	3.16/2	31.51/22	103956-9
11	A	1.098 (27.89)	A28426-ND	2	6.44/2	58.32/20	1-103958-0
12	A	1.198 (30.43)	A28430-ND	2	4.87/2	39.66/18	1-103958-1
	B	1.198 (30.43)	A28431-ND	2	4.12/2	33.55/18	1-103957-1
2	Unloaded	.198 (5.03)	A28393-ND◆†	1	.23/1	5.26/25	104257-1
3	Unloaded	.298 (7.57)	A28397-ND◆†	1	.34/1	7.78/25	104257-2
4	Unloaded	.398 (10.11)	A28401-ND◆†	1	.39/1	8.81/25	104257-3
5	Unloaded	.498 (12.65)	A28405-ND◆†	1	.40/1	8.99/25	104257-4
6	Unloaded	.598 (15.19)	A28409-ND◆†	1	.45/1	10.21/25	104257-5
7	Unloaded	.698 (17.73)	A28413-ND◆†	1	.55/1	12.49/25	104257-6
8	Unloaded	.798 (20.27)	A28417-ND◆†	1	.57/1	12.87/25	104257-7
9	Unloaded	.898 (22.81)	A28421-ND◆†	1	.66/1	14.85/25	104257-8
10	Unloaded	.998 (23.35)	A28425-ND◆†	1	.69/1	15.59/25	104257-9
11	Unloaded	1.098 (27.89)	A28429-ND◆†	1	.72/1	16.21/25	1-104257-0
12	Unloaded	1.198 (30.43)	A28433-ND◆†	1	.82/1	18.68/25	1-104257-1
14	Unloaded	1.398 (35.51)	A26854-ND◆†	1	1.04/1	23.53/25	1-104257-3
15	Unloaded	1.498 (38.05)	A26855-ND◆†	1	1.16/1	26.25/25	1-104257-4
16	Unloaded	1.598 (40.59)	A26856-ND◆†	1	1.23/1	27.84/25	1-104257-5
17	Unloaded	1.698 (43.13)	A26857-ND◆†	1	1.27/1	28.75/25	1-104257-6
20	Unloaded	1.998 (50.75)	A26858-ND◆†	1	1.43/1	32.36/25	1-104257-9
Fig. 2 — Strip Form Polarized/Latching, RoHS Compliant							
2	A	.198 (5.03)	A34185-ND	10	6.15/10	61.23/110	5-103958-1
	B	.198 (5.03)	A34186-ND	10	4.75/10	47.29/110	5-103957-1
	C	.198 (5.03)	A34187-ND	10	4.94/10	49.25/110	5-103956-1
3	A	.298 (7.57)	A34188-ND	8	5.78/8	47.12/72	5-103958-2
	B	.298 (7.57)	A34189-ND	8	4.28/8	34.88/72	5-103957-2
	C	.298 (7.57)	A34190-ND	8	4.69/8	38.23/72	5-103956-2
4	A	.398 (10.11)	A34191-ND	5	4.38/5	43.59/55	5-103958-3
	B	.398 (10.11)	A34192-ND	5	3.79/5	37.77/55	5-103957-3
	C	.398 (10.11)	A34193-ND	5	3.47/5	34.53/55	5-103956-3
5	A	.498 (12.65)	A34194-ND	4	4.28/4	42.63/44	5-103958-4
	B	.498 (12.65)	A34195-ND	4	3.49/4	34.73/44	5-103957-4
	C	.498 (12.65)	A34196-ND	4	3.37/4	33.57/44	5-103956-4
6	A	.598 (15.19)	A34197-ND	4	5.09/4	41.52/36	5-103958-5
	B	.598 (15.19)	A34198-ND	4	4.02/4	32.73/36	5-103957-5
	C	.598 (15.19)	A34199-ND	4	3.07/4	24.99/36	5-103956-5
7	A	.698 (17.73)	A34200-ND	2	3.39/2	46.10/30	5-103958-6
	B	.698 (17.73)	A34201-ND	2	2.54/2	34.45/30	5-103957-6
	C	.698 (17.73)	A34944-ND	2	2.31/2	31.36/30	5-103956-6
8	A	.798 (20.27)	A34202-ND	2	3.28/2	38.58/26	5-103958-7
	B	.798 (20.27)	A34203-ND	2	2.40/2	28.27/26	5-103957-7
	C	.798 (20.27)	A34945-ND	2	2.55/2	30.01/26	5-103956-7
9	A	.898 (22.81)	A34204-ND	2	3.55/2	38.60/24	5-103958-8
	B	.898 (22.81)	A34205-ND	2	2.98/2	32.36/24	5-103957-8
	C	.898 (22.81)	A34206-ND	2	2.73/2	29.70/24	5-103956-8
10	A	.998 (23.35)	A34207-ND	2	3.43/2	34.14/22	5-103958-9
	B	.998 (23.35)	A34208-ND	2	3.29/2	32.74/22	5-103957-9
	C	.998 (23.35)	A34209-ND	2	2.96/2	29.51/22	5-103956-9
11	A	1.098 (27.89)	A34210-ND	2	4.22/2	38.23/20	6-103958-0
	C	1.098 (27.89	A34963-ND	2	4.60/2	41.62/20	6-103956-0
12	A	1.198 (30.43)	A34211-ND	2	4.56/2	37.14/18	6-103958-1
	B	1.198 (30.43)	A34212-ND	2	3.85/2	31.42/18	6-103957-1
	C	1.198 (30.43)	A34213-ND	2	3.46/2	28.24/18	6-103956-1
PIN ASSEMBLIES (contacts sold below for unloaded pin housing) **Single Row .100" (2.54mm), 26-22 AWG**							
Fig. 3 — Strip Form Polarized/Latching							
2	A	.295 (7.49)	A28434-ND	8	5.68/8	46.30/72	103946-1
	B	.295 (7.49)	A28435-ND	8	7.50/8	61.10/72	103945-1
	C	.295 (7.49)	A28436-ND	8	7.24/8	59.00/72	103944-1
3	A	.395 (10.03)	A28438-ND	5	4.14/5	41.26/55	103946-2
	B	.395 (10.03)	A28439-ND	5	4.95/5	49.34/55	103945-2
4	A	.495 (12.57)	A28442-ND	4	3.73/4	37.14/44	103946-3
	B	.495 (12.57)	A28443-ND	4	4.51/4	44.92/44	103945-3
	C	.495 (12.57)	A28444-ND	4	4.25/4	42.36/44	103944-3
5	A	.595 (15.11)	A28446-ND	4	4.99/4	40.69/36	103946-4
	B	.595 (15.11)	A28447-ND	4	4.67/4	38.07/36	103945-4
	C	.595 (15.11)	A28448-ND	4	6.79/4	55.38/36	103944-4
6	A	.695 (17.05)	A28450-ND	2	2.74/2	37.28/30	103946-5
7	B	.795 (20.19)	A28455-ND	3	9.09/3	74.06/27	103945-6
8	A	.895 (22.73)	A28458-ND	2	4.53/2	49.21/24	103946-7
	C	.895 (22.73)	A28460-ND	2	3.85/2	41.84/24	103944-7
2	Unloaded	.295 (7.49)	A28437-ND◆	1	.50/1	11.25/25	103653-1
3	Unloaded	.395 (10.03)	A28441-ND◆	1	.52/1	11.71/25	103653-2
4	Unloaded	.495 (12.57)	A28445-ND◆	1	.65/1	14.68/25	103653-3
5	Unloaded	.595 (15.11)	A28449-ND◆	1	.53/1	12.00/25	103653-4
6	Unloaded	.695 (17.05)	A28453-ND◆	1	.62/1	14.13/25	103653-5
7	Unloaded	.795 (20.19)	A28457-ND◆	1	1.10/1	24.96/25	103653-6
8	Unloaded	.895 (22.73)	A28461-ND◆	1	1.14/1	25.74/25	103653-7
9	Unloaded	.995 (25.27)	A28465-ND◆	1	1.19/1	27.01/25	103653-8
10	Unloaded	1.095 (27.81)	A28469-ND◆	1	1.27/1	28.80/25	103653-9
11	Unloaded	1.195 (30.35)	A28472-ND◆	1	1.70/1	38.49/25	1-103653-0
12	Unloaded	1.295 (32.89)	A28754-ND◆	1	1.29/1	29.22/25	1-103653-1
14	Unloaded	1.495 (37.97)	A28755-ND◆	1	1.23/1	27.77/25	1-103653-3
15	Unloaded	1.595 (40.51)	A28756-ND◆	1	1.64/1	37.18/25	1-103653-4
16	Unloaded	1.695 (43.05)	A28757-ND◆	1	1.44/1	32.53/25	1-103653-5
17	Unloaded	1.795 (45.59)	A26852-ND◆	1	1.71/1	38.74/25	1-103653-6
20	Unloaded	2.095 (53.21)	A28792-ND◆	1	1.43/1	32.36/25	1-103653-9

◆ ***RoHS Compliant*** † For Female contacts see "Short Point Contacts"

(Continued)

AMPMODU MTE Interconnection System *(Cont.)*

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
Fig. 3 — Strip Form Polarized/Latching, RoHS Compliant							
2	A	.295 (7.49)	A34214-ND	8	7.19/8	58.60/72	5-103946-1
	B	.295 (7.49)	A34215-ND	8	7.02/8	57.21/72	5-103945-1
	C	.295 (7.49)	A34216-ND	8	6.78/8	55.25/72	5-103944-1
3	A	.395 (10.03)	A34217-ND	5	5.71/5	56.85/55	5-103946-2
	B	.395 (10.03)	A34218-ND	5	4.64/5	46.19/55	5-103945-2
	C	.395 (10.03)	A34219-ND	5	4.41/5	43.94/55	5-103944-2
4	A	.495 (12.57)	A34220-ND	4	4.35/4	43.31/44	5-103946-3
	B	.495 (12.57)	A34221-ND	4	4.22/4	42.06/44	5-103945-3
	C	.495 (12.57)	A34222-ND	4	3.98/4	39.66/44	5-103944-3
5	A	.595 (15.11)	A34223-ND	4	4.67/4	38.10/36	5-103946-4
	B	.595 (15.11)	A34224-ND	4	4.37/4	35.65/36	5-103945-4
	C	.595 (15.11)	A34225-ND	4	4.01/4	32.73/36	5-103944-4
6	A	.695 (17.05)	A34226-ND	2	2.57/2	34.91/30	5-103946-5
	B	.695 (17.05)	A34227-ND	2	2.39/2	32.45/30	5-103945-5
	C	.695 (17.05)	A34228-ND	2	2.21/2	29.99/30	5-103944-5
7	A	.795 (20.19)	A34229-ND	3	6.46/3	52.67/27	5-103946-6
	C	.795 (20.19)	A34940-ND	3	5.44/3	44.38/27	5-103944-6
8	A	.895 (22.73)	A34230-ND	2	4.64/2	50.42/24	5-103946-7
	B	.895 (22.73)	A34231-ND	2	4.48/2	48.66/24	5-103945-7
	C	.895 (22.73)	A34232-ND	2	3.90/2	42.36/24	5-103944-7
9	B	.995 (25.27)	A34942-ND	2	4.71/2	46.97/22	5-103945-8
	C	.995 (25.27)	A34941-ND	2	3.96/2	39.50/22	5-103944-8
10	A	1.095 (27.81)	A34233-ND	2	5.19/2	47.00/20	5-103946-9
	B	1.095 (27.81)	A34234-ND	2	5.00/2	45.31/20	5-103945-9

◆ ***RoHS Compliant*** † For Female contacts see "Short Point Contacts"

Interchangeable Contacts Wire Crimp (Snap-In) Pins

Material: Phosphor bronze **Specification:** Contact: standard pressure
Contact Plating: A: 30µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel
C: 100µ minimum bright tin-lead over 50µ nickel on entire contact

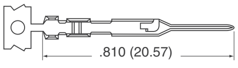

Wire Size (AWG)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape and Reel Pricing 12,500	AMP Part No.
28 ~ 32	.025 ~ .054 (.64 ~ 1.37)	A	A28336-ND	8.26	55.56	104506-7	—	—	—	—	—	—
		A	A34236-ND◆	7.73	52.02	5-104506-7	—	—	—	—	—	—
		B	A28337-ND	7.68	51.67	104506-5	—	—	—	—	—	—
		B	A34237-ND◆	7.19	48.39	5-104506-5	—	—	—	—	—	—
22 ~ 26	.036 ~ .054 (.91 ~ 1.37)	A	A28339-ND	8.26	55.56	104505-7	A28339CT-ND	228.53	415.50	A28339TR-ND	224.38/M	104505-6
		A	A34238-ND◆	7.01	47.15	5-104505-7	A34238CT-ND◆	253.03	460.05	A34238TR-ND◆	248.43/M	5-104505-6
		B	A28341-ND	7.68	51.67	104505-5	A28341CT-ND	159.40	289.83	A28341TR-ND	156.51/M	104505-4
		B	A34239-ND◆	6.53	43.96	5-104505-5	A34239CT-ND◆	213.68	388.50	A34239TR-ND◆	209.80/M	5-104505-4
		C	A28343-ND	3.90	26.24	104505-3	—	—	—	—	—	—
		C	A34240-ND◆	3.48	23.39	5-104505-3	—	—	—	—	—	—

◆ ***RoHS Compliant***

ASKP02-ND	Keying Plug - 10 Comb	**$1.02**
A2031-ND	Manual Pistol Grip Tool (loaded housing product)	**$63.72**
A28718-ND	Head Assembly Tool use with A2031-ND	**$1265.76**
A99174-ND	Crimp Hand Tool for 28 ~ 32AWG (loose piece product)	**$1099.19**
A30575-ND	Certi-Crimp™ Hand Tool Assembly for 22 ~ 26AWG (loose piece product)	**$603.45**

AMPMODU Unshrouded Profile Headers - .100" (2.54mm) Centers

PERFORMANCE CHARACTERISTICS:
- Insulation Resistance: 5,000MΩ minimum initial
- Withstanding Voltage: 750V rms at sea level
- Operating Temperature: -65°C ~ 105°C
- Current: 3 amp maximum per contact

MATERIAL:
Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:
A: Selectively plated 30µ gold on contact area, with gold flash over 50µ nickel
B: Selectively plated 15µ gold on contact area, with gold flash over 50µ nickel

Fig. 1

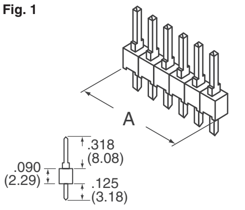

Fig. 2

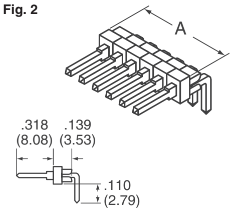

Fig. 3

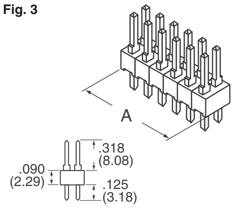

Fig. 4

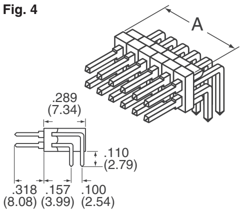

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Row						
Fig. 1 — .025" (.64mm) Square Straight Post						
1	A	.084 (2.13)	A26540-ND	.80	.73	87220-1
	B	.084 (2.13)	A26541-ND	.46	.42	87224-1
2	A	.184 (4.67)	A26542-ND	1.26	1.14	87220-2
	B	.184 (4.67)	A26543-ND	1.00	.90	87224-2
3	A	.284 (7.21)	A26544-ND	1.68	1.52	87220-3
	B	.284 (7.21)	A26545-ND	1.19	1.08	87224-3
4	A	.384 (9.75)	A26546-ND	2.28	2.06	87220-4
	B	.384 (9.75)	A26547-ND	1.44	1.30	87224-4
5	A	.484 (12.29)	A26548-ND	2.31	2.08	87220-5
	B	.484 (12.29)	A26549-ND	1.71	1.54	87224-5
6	A	.584 (14.83)	A26550-ND	2.70	2.43	87220-6
	B	.584 (14.83)	A26551-ND	1.98	1.79	87224-6
7	A	.684 (17.37)	A26552-ND	2.82	2.54	87220-7
	B	.684 (17.37)	A26553-ND	2.22	2.00	87224-7
8	A	.784 (19.91)	A26554-ND	3.45	3.11	87220-8
	B	.784 (19.91)	A26555-ND	2.40	2.16	87224-8
10	A	.984 (24.99)	A26556-ND	3.72	3.35	1-87220-0
	B	.984 (24.99)	A26557-ND	3.24	2.92	1-87224-0
20	A	1.984 (50.39)	A26558-ND	7.08	6.38	2-87220-0
	B	1.984 (50.39)	A26559-ND	6.30	5.67	2-87224-0
40	A	3.984 (101.19)	A26560-ND	10.47	9.43	4-87220-0
	B	3.984 (101.19)	A26561-ND	11.16	10.05	4-87224-0
Fig. 2 — .025" (.64mm) Square Right Angle Post						
1	A	.084 (2.13)	A28762-ND	.71	.64	87232-1
	B	.084 (2.13	A28763-ND	.72	.65	87233-1
2	A	.184 (4.67)	A28764-ND	1.22	1.10	87232-2
	B	.184 (4.67)	A28765-ND	.97	.88	87233-2
3	A	.284 (7.21)	A28766-ND	1.50	1.35	87232-3
	B	.284 (7.21)	A28767-ND	1.54	1.39	87233-3
4	A	.384 (9.75)	A28768-ND	1.62	1.46	87232-4
	B	.384 (9.75)	A28769-ND	1.58	1.43	87233-4
5	A	.484 (12.29)	A28770-ND	2.16	1.95	87232-5
	B	.484 (12.29)	A28771-ND	1.92	1.73	87233-5
6	A	.584 (14.83)	A28772-ND	2.34	2.11	87232-6
	B	.584 (14.83)	A28773-ND	2.43	2.19	87233-6
7	A	.684 (17.37)	A28774-ND	3.06	2.76	87232-7
8	A	.784 (19.91)	A28776-ND	4.53	4.08	87232-8
	B	.784 (19.91)	A28777-ND	2.76	2.49	87233-8
10	A	.984 (24.99)	A28778-ND	4.23	3.81	1-87232-0
	B	.984 (24.99)	A28779-ND	3.87	3.49	1-87233-0
20	A	1.984 (50.39)	A28780-ND	9.90	8.91	2-87232-0
	B	1.984 (50.39)	A28781-ND	9.09	8.19	2-87233-0
40	A	3.984 (101.19)	A26562-ND	16.89	15.21	4-87232-0
	B	3.984 (101.19)	A26563-ND	13.23	11.91	4-87233-0
Double Row						
Fig. 3 — .025" (.64mm) Square Straight Post						
2	A	.084 (2.13)	A26564-ND	1.26	1.14	1-87215-0
	B	.084 (2.13)	A26565-ND	1.38	1.25	87227-1
4	A	.184 (4.67)	A26566-ND	1.90	1.72	1-87215-1
	B	.184 (4.67)	A26567-ND	1.83	1.65	87227-2
6	A	.284 (7.21)	A26568-ND	2.76	2.49	1-87215-2
	B	.284 (7.21)	A26569-ND	2.10	1.89	87227-3
8	A	.384 (9.75)	A26570-ND	3.33	3.00	87215-1
	B	.384 (9.75	A26571-ND	2.94	2.65	87227-4
10	A	.484 (12.29)	A26572-ND	4.14	3.73	87215-2
	B	.484 (12.29)	A26573-ND	3.57	3.22	87227-5
12	A	.584 (14.83)	A26574-ND	4.65	4.19	87215-3
	B	.584 (14.83)	A26575-ND	3.87	3.49	87227-6
14	A	.684 (17.37)	A26576-ND	5.25	4.73	87215-4
	B	.684 (17.37)	A26577-ND	4.56	4.11	87227-7
16	A	.784 (19.91)	A26578-ND	5.43	4.89	87215-5
	B	.784 (19.91)	A26579-ND	5.76	5.19	87227-8
20	A	.984 (24.99)	A26580-ND	7.23	6.51	87215-7
	B	.984 (24.99)	A26581-ND	6.15	5.54	1-87227-0
24	A	1.184 (30.07)	A26582-ND	8.82	7.94	87215-8
	B	1.184 (30.07)	A26583-ND	6.15	5.54	1-87227-2
26	A	1.284 (32.61)	A26584-ND	8.91	8.02	87215-9
	B	1.284 (32.61)	A28694-ND	7.56	6.81	1-87227-3
34	A	1.684 (42.77)	A26585-ND	11.37	10.24	1-87215-7
	B	1.684 (42.77)	A28695-ND	8.91	8.02	1-87227-7
50	A	2.484 (63.09)	A26586-ND	19.80	17.82	2-87215-5
	B	2.484 (63.09)	A26587-ND	14.16	12.75	2-87227-5
60	A	2.984 (75.79)	A26588-ND	21.78	19.61	3-87215-0
	B	2.984 (75.79)	A26589-ND	17.43	15.69	3-87227-0
80	A	3.984 (101.19)	A26591-ND	26.10	23.49	4-87215-0
	B	3.984 (101.19)	A26590-ND	22.89	20.61	4-87227-0
Fig. 4 — .025" (.64mm) Square Right-Angle Post						
2	A	.084 (2.13)	A28782-ND	1.20	1.08	1-86479-3
	B	.084 (2.13)	A28783-ND	.78	.71	87230-1
4	A	.184 (4.67)	A28784-ND	1.95	1.76	1-86479-4
	B	.184 (4.67)	A28785-ND	1.11	1.00	87230-2
6	A	.284 (7.21)	A26592-ND	2.07	1.87	1-86479-5
	B	.284 (7.21)	A26593-ND	1.50	1.35	87230-3
8	A	.384 (9.75)	A26594-ND	2.13	1.92	1-86479-6
	B	.384 (9.75)	A26595-ND	1.92	1.73	87230-4
10	A	.484 (12.29)	A26596-ND	3.90	3.51	86479-3
	B	.484 (12.29)	A26597-ND	3.24	2.92	87230-5
12	A	.584 (14.83)	A28786-ND	4.50	4.05	86479-4
	B	.584 (14.83)	A28787-ND	3.81	3.43	87230-6
14	A	.684 (17.37)	A26598-ND	4.05	3.65	86479-5
	B	.684 (17.37)	A26599-ND	4.47	4.03	87230-7
16	A	.784 (19.91)	A26600-ND	4.95	4.46	86479-2
	B	.784 (19.91)	A26601-ND	4.98	4.49	87230-8
20	A	.984 (24.99)	A26602-ND	7.86	7.08	86479-1
	B	.984 (24.99)	A26603-ND	4.71	4.24	1-87230-0
24	A	1.184 (30.07)	A28788-ND	6.93	6.24	86479-7
	B	1.184 (30.07)	A28789-ND	5.22	4.70	1-87230-2
26	A	1.284 (32.61)	A26604-ND	9.69	8.73	1-86479-0
	B	1.284 (32.61)	A26605-ND	5.58	5.03	1-87230-3
30	A	1.484 (37.69)	A26606-ND	9.12	8.21	1-86479-9
	B	1.484 (37.69)	A26607-ND	7.02	6.32	1-87230-5
50	A	2.484 (63.09)	A26608-ND	12.42	11.18	2-86479-9
	B	2.484 (63.09)	A26609-ND	11.79	10.62	2-87230-5
60	A	2.984 (75.79)	A28790-ND	18.09	16.29	3-86479-4
80	A	3.984 (101.19)	A26610-ND	30.90	27.81	4-86479-4
	B	3.984 (101.19)	A26611-ND	15.66	14.10	4-87230-0

AMPMODU Unshrouded Breakaway Headers - .100" Centers

MATERIAL:
• Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze

Contact Plating:
A: 30µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel **B:** 15µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel **C:** 100µ ~ 200µ tin-lead over 50µ nickel on entire post **D:** 100µ ~ 200µ tin over 50µ nickel on entire post

40 Pin Headers

No. of Pos.	Plating	Dimensions Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
		A	B		1	10	
Single Row							
Fig. 1 — .025" (.64mm) Square Straight Post							
40	A	.090 (2.29)	.230 (5.84)	A26508-40-ND	2.51	2.25	4-103747-0
	C	.090 (2.29)	.230 (5.84)	A26509-40-ND	1.60	1.43	4-103741-0
	A	.120 (3.05)	.230 (5.84)	A26512-40-ND	2.62	2.35	4-103239-0
	B	.120 (3.05)	.230 (5.84)	A26513-40-ND	2.40	2.15	4-103185-0
	C	.120 (3.05)	.230 (5.84)	A26514-40-ND	1.71	1.54	4-103327-0
	B	.125 (3.18)	.318 (8.08)	A26519-40-ND	2.51	2.25	4-102972-0
	C	.125 (3.18)	.318 (8.08)	A26520-40-ND	1.83	1.64	4-103321-0
Fig. 1 — .025" (.64mm) Square Straight Post RoHS Compliant							
40	D	.090 (2.29)	.230 (5.84)	A32700-40-ND	2.95	2.64	9-146285-0
	C	.090 (2.29)	.230 (5.84)	A34253-40-ND	2.28	2.05	9-146282-0
	A	.120 (3.05)	.230 (5.84)	A34254-40-ND	3.08	2.76	9-146281-0
	D	.120 (3.05)	.230 (5.84)	A32701-40-ND	2.85	2.56	9-146280-0
	C	.120 (3.05)	.230 (5.84)	A34256-40-ND	2.33	2.09	9-146278-0
	A	.125 (3.18)	.318 (8.08)	A34257-40-ND	3.10	2.78	9-146277-0
	D	.125 (3.18)	.318 (8.08)	A32703-40-ND	2.88	2.58	9-146276-0
	C	.125 (3.18)	.318 (8.08)	A34259-40-ND	2.44	2.18	9-146274-0
Fig. 2 — .025" (.64mm) Square Right Angle Post RoHS Compliant							
40	A	.090 (2.29)	.230 (5.84)	A34260-40-ND	4.53	4.06	9-103765-0
	C	.090 (2.29)	.230 (5.84)	A34261-40-ND	2.82	2.53	9-103759-0
	A	.120 (3.05)	.230 (5.84)	A34262-40-ND	4.09	3.67	9-146304-0
	D	.120 (3.05)	.230 (5.84)	A32702-40-ND	2.74	2.46	9-103325-0
	C	.120 (3.05)	.230 (5.84)	A34264-40-ND	2.39	2.14	9-103329-0
	A	.110 (2.79)	.318 (8.08)	A34265-40-ND	3.74	3.36	9-146305-0
	D	.110 (2.79)	.318 (8.08)	A32704-40-ND	3.57	3.19	9-102974-0
	D	.110 (2.79)	.318 (8.08)	A32705-40-ND	2.03	1.82	9-103323-0
Double Row							
Fig. 3 — .025" (.64mm) Square Straight Post							
80	A	.090 (2.29)	.230 (5.84)	A26524-40-ND	4.37	3.92	4-103783-0
	C	.090 (2.29)	.230 (5.84)	A26525-40-ND	2.65	2.37	4-103777-0
	A	.120 (3.05)	.230 (5.84)	A26528-40-ND	3.88	3.48	4-103240-0
	B	.120 (3.05)	.230 (5.84)	A26529-40-ND	3.42	3.07	4-103186-0
	C	.120 (3.05)	.230 (5.84)	A26530-40-ND	2.74	2.45	4-103328-0
	A	.125 (3.18)	.318 (8.08)	A26534-40-ND	4.40	3.94	4-102977-0
	B	.125 (3.18)	.318 (8.08)	A26535-40-ND	3.65	3.27	4-102973-0
	C	.125 (3.18)	.318 (8.08)	A26536-40-ND	2.97	2.66	4-103322-0
Fig. 3 — .025" (.64mm) Square Straight Post RoHS Compliant							
80	A	.090 (2.29)	.230 (5.84)	A34268-40-ND	4.74	4.25	9-146261-0
	A	.120 (3.05)	.230 (5.84)	A34977-40-ND	5.02	4.50	9-146257-0
	B	.120 (3.05)	.230 (5.84)	A34269-40-ND	4.43	3.97	9-146256-0
	C	.120 (3.05)	.230 (5.84)	A34976-40-ND	3.42	3.07	9-146254-0
	C	.090 (2.29)	.230 (5.84)	A34344-40-ND	2.97	2.66	9-146258-0
	A	.125 (3.18)	.318 (8.08)	A34270-40-ND	5.10	4.56	9-146253-0
	D	.125 (3.18)	.318 (8.08)	A32707-40-ND	4.65	4.17	9-146252-0
	C	.125 (3.18)	.318 (8.08)	A34272-40-ND	3.88	3.48	9-146250-0
Fig. 4 — .025" (.64mm) Square Right Angle Post RoHS Compliant							
80	A	.090 (2.29)	.230 (5.84)	A34273-40-ND	4.56	4.09	9-103801-0
	C	.090 (2.29)	.230 (5.84)	A34274-40-ND	3.88	3.48	9-103795-0
	A	.120 (3.05)	.230 (5.84)	A34275-40-ND	8.44	7.56	9-146308-0
	D	.120 (3.05)	.230 (5.84)	A32706-40-ND	4.56	4.09	9-103326-0
	C	.120 (3.05)	.230 (5.84)	A34277-40-ND	4.11	3.68	9-103330-0
	A	.110 (2.79)	.318 (8.08)	A34278-40-ND	8.67	7.76	9-146309-0
	B	.110 (2.79)	.318 (8.08)	A34346-40-ND	4.79	4.29	9-102975-0
	C	.110 (2.79)	.318 (8.08)	A34279-40-ND	4.34	3.88	9-103324-0

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
Single Row		
.025" (.64mm) Square Straight Post		
A26508-XX-ND	.32	.06
A26509-XX-ND	.14	.04
A26512-XX-ND	.44	.06
A26513-XX-ND	.20	.06
A26514-XX-ND	.25	.04
A26519-XX-ND	.32	.06
A26520-XX-ND	.38	.04
.025" (.64mm) Square Straight Post RoHS Compliant		
A32700-XX-ND	.40	.07
A34253-XX-ND	.47	.05
A34254-XX-ND	.53	.07
A32701-XX-ND	.29	.07
A34256-XX-ND	.52	.05
A34257-XX-ND	.56	.07
A32703-XX-ND	.32	.07
A34259-XX-ND	.25	.06
.025" (.64mm) Square Right Angle Post RoHS Compliant		
A34260-XX-ND	.51	.11
A34261-XX-ND	.26	.07
A34262-XX-ND	.44	.10
A32702-XX-ND	.56	.06
A34264-XX-ND	.19	.06
A34265-XX-ND	.45	.09
A32704-XX-ND	.66	.08
A32705-XX-ND	.20	.05
Double Row		
.025" (.64mm) Square Straight Post		
A26524-XX-ND	.73	.10
A26525-XX-ND	.47	.06
A26528-XX-ND	.60	.09
A26529-XX-ND	.51	.08
A26530-XX-ND	.56	.06
A26534-XX-ND	.76	.10
A26535-XX-ND	.75	.08
A26536-XX-ND	.42	.07
.025" (.64mm) Square Straight Post RoHS Compliant		
A34268-XX-ND	.73	.11
A34977-XX-ND	1.03	.11
A34269-XX-ND	.80	.10
A34976-XX-ND	.51	.08
A34344-XX-ND	.42	.07
A34270-XX-ND	.65	.12
A32707-XX-ND	.64	.11
A34272-XX-ND	.60	.09
.025" (.64mm) Square Right Angle Post RoHS Compliant		
A34273-XX-ND	.93	.10
A34274-XX-ND	.60	.09
A34275-XX-ND	1.54	.19
A32706-XX-ND	.93	.10
A34277-XX-ND	.85	.09
A34278-XX-ND	1.39	.20
A34346-XX-ND	.79	.11
A34279-XX-ND	.70	.10

Fig. 1

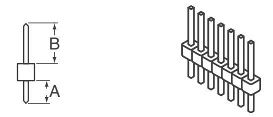

Fig. 2

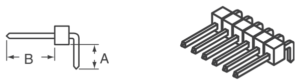

Fig. 3

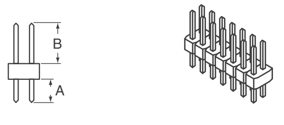

Fig. 4

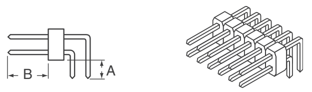

HOW TO ORDER:
4 EASY STEPS

How do I order an A26508 single row header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

A☐☐☐☐☐-☐☐-ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins per row you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	A26508-16-ND
Step 2.	.49
Step 3.	16 x .05 = .80
Step 4.	Your Cost = $1.29

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

AMPMODU PCB Connectors - .100” (2.54mm) Centers

PERFORMANCE SPECIFICATIONS: • Current Rating: 3A maximum for single contact: 2A maximum per contact for fully energized connector • Voltage Rating: 250VAC • Dielectric Rating: 750VAC rms between contacts for one minute • Insulation Resistance: 1,000MΩ after temperature/humidity cycling • Temperature Rating: Headers: -65°C ~ 105°C; Receptacle Assemblies: -65°C ~ 125°C • Durability: 200 cycles for 30μ gold plating (75 cycles for 15μ gold plating) **MATERIAL**: **Headers**: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze **Receptacles**: • Housing: Brown thermoplastic, 94V-0 rated, high temperature compatible • Contacts: Phosphor bronze

Contact/Post Plating: A: 30μ gold on contact area, 100μ ~ 200μ bright tin-lead on termination end, with entire post underplated 50μ nickel **B:** 15μ gold on contact area, 100μ ~ 200μ bright tin-lead on termination end, with entire post underplated 50μ nickel **C:** 30μ gold on contact area, 50μ ~ 100μ bright tin-lead on solder area, with entire contact underplated 50μ nickel **D:** 15μ gold on contact area, 50μ ~ 100μ bright tin-lead on solder area, with entire contact underplated 50μ nickel

Fig. 1

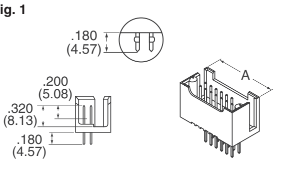

Fig. 2

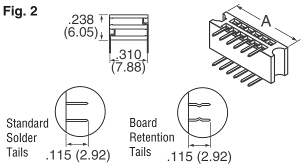

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Headers						
Straight Post with Standard Solder Tails						
12	A	.980 (24.89)	A26375-ND	2.73	2.46	102692-1
12	B	.980 (24.89)	A26376-ND	2.40	2.16	102567-1
16	A	1.180 (29.97)	A26379-ND	3.33	3.00	1-102692-5
20	B	1.380 (35.05)	A26380-ND	3.18	2.87	1-102567-1
24	B	1.580 (40.13)	A26383-ND	3.51	3.16	102567-2
30	B	1.880 (47.75)	A26386-ND	4.05	3.65	1-102567-3
36	A	2.180 (55.37)	A26388-ND	5.46	4.92	102692-3
40	B	2.380 (60.45)	A26392-ND	4.23	3.81	1-102567-2
50	B	2.880 (73.15)	A26394-ND	5.97	5.38	102567-6
60	A	3.380 (85.85)	A26396-ND	8.34	7.51	102692-5
60	B	3.380 (85.85)	A26397-ND	6.84	6.16	102567-4
80	B	4.380 (111.25)	A26401-ND	9.00	8.10	102567-8
100	A	5.380 (136.65)	A26402-ND	13.41	12.07	102692-8
Straight Post with Standard Solder Tails — RoHS Compliant						
12	B	.980 (24.89)	A34280-ND	2.25	2.03	5-102567-1
16	A	1.180 (29.97)	A34282-ND	3.09	2.79	6-102692-5
20	B	1.380 (35.05)	A34283-ND	3.00	2.70	6-102567-1
30	A	1.880 (47.75)	A34284-ND	4.47	4.03	6-102692-7
30	B	3.380 (85.85)	A34285-ND	3.78	3.41	6-102567-3
36	A	2.180 (55.37)	A34286-ND	5.13	4.62	5-102692-3
36	B	2.180 (55.37)	A34287-ND	8.61	7.75	5-102567-3
40	A	2.380 (60.45)	A34288-ND	5.55	5.00	6-102692-3
40	B	2.380 (60.45)	A34289-ND	4.56	4.11	6-102567-2
50	B	2.880 (73.15)	A34290-ND	5.61	5.05	5-102567-6
70	B	3.880 (98.55)	A34293-ND	7.38	6.65	6-102567-0
100	A	5.380 (136.65)	A34295-ND	12.57	11.32	5-102692-8
With Board Retention Tails						
20	A	1.380 (35.05)	A26381-ND	4.50	4.05	534978-3
With Board Retention Tails — RoHS Compliant						
20	A	1.380 (35.05)	A34296-ND	4.23	3.81	5-534978-3
24	A	1.580 (40.13)	A34971-ND	3.84	3.46	5-534978-4
50	A	2.880 (73.15)	A34973-ND	6.66	6.00	5-534978-8
Fig. 2 — Receptacles Horizontal Mount, Closed Entry						
Standard Solder Tails						
12	C	.858 (21.79)	A26340-ND	2.89	2.62	532956-1
12	D	.858 (21.79)	A26341-ND	2.65	2.40	532955-1
16	C	1.058 (26.87)	A26343-ND	3.74	3.39	532956-2
24	C	1.458 (37.03)	A26347-ND	5.01	4.54	532956-4
24	D	1.458 (37.03)	A26348-ND	4.98	4.52	532955-4
36	D	2.058 (52.27)	A26354-ND	6.94	6.29	532955-6
40	C	2.258 (57.35)	A26356-ND	5.77	5.23	532956-7
70	D	3.758 (95.45)	A26365-ND	12.24	11.09	1-532955-0
80	C	4.258 (108.15)	A26367-ND	15.05	13.64	1-532956-2
100	C	5.258 (133.55)	A26369-ND	17.38	15.75	1-532956-6
Standard Solder Tails — RoHS Compliant						
12	C	.858 (21.79)	A34301-ND	2.68	2.43	5-532956-1
12	D	.858 (21.79)	A32548-ND	2.49	2.26	5-532955-1
16	C	1.058 (26.87)	A34302-ND	3.50	3.17	5-532956-2
20	C	1.258 (31.95)	A34303-ND	4.27	3.87	5-532956-3
20	D	1.258 (31.95)	A34304-ND	3.77	3.42	5-532955-3
24	D	1.458 (37.03)	A34306-ND	4.69	4.25	5-532955-4
30	C	1.758 (44.65)	A34307-ND	5.70	5.16	5-532956-5
30	D	1.758 (44.65)	A34308-ND	5.64	5.12	5-532955-5
36	D	2.058 (52.27)	A34309-ND	6.52	5.91	5-532955-6
40	C	2.258 (57.35)	A34310-ND	3.98	3.61	5-532956-7
40	D	2.258 (57.35)	A34311-ND	3.52	3.19	5-532955-7
50	C	2.758 (70.05)	A34312-ND	9.14	8.28	5-532956-8
50	D	2.758 (70.05)	A34313-ND	8.00	7.25	5-532955-8
60	D	3.258 (82.75)	A34315-ND	9.83	8.91	5-532955-9
70	D	3.758 (95.45)	A34316-ND	11.45	10.37	6-532955-0
80	C	4.258 (108.15)	A34317-ND	14.10	12.77	6-532956-2
100	D	5.258 (133.55)	A34319-ND	15.90	14.40	6-532955-6
Board Retention Tails						
40	C	2.258 (57.35)	A26358-ND	7.55	6.84	1-534204-2
Board Retention Tails — RoHS Compliant						
12	C	.858 (21.79)	A34322-ND	3.63	3.29	5-534204-2
20	C	1.258 (31.95)	A34323-ND	4.27	3.87	5-534204-9
24	C	1.458 (37.03)	A34324-ND	4.96	4.49	6-534204-1
30	C	1.758 (44.65)	A34325-ND	5.70	5.16	5-534204-4
36	C	2.058 (52.27)	A34326-ND	8.00	7.25	5-534204-3
50	C	2.758 (70.05)	A34328-ND	8.37	7.59	5-534204-1
70	C	3.758 (95.45)	A34330-ND	12.38	11.21	6-534204-3

AMPMODU Shrouded Headers - .100” (2.54mm) Centers

Material:

Housing: Black thermoplastic, 94V-0 rated **Posts:** Copper alloy

Contact Plating:

A: 30μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **B:** 15μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **C:** 100μ ~ 200μ tin-lead over 50μ nickel on entire post

Fig. 1

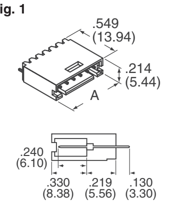

Fig. 2

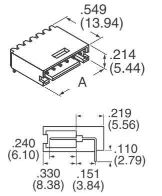

Fig. 3

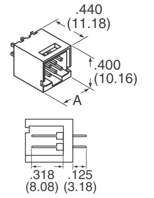

Fig. 4

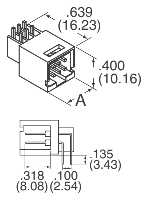

Fig. 5

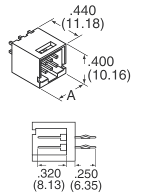

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Row						
Fig. 1 – .025” (.64mm) Square Straight Post, with Standoffs						
3	A	.420 (10.67)	A26612-ND	1.62	1.46	103414-1
3	B	.420 (10.67)	A26613-ND	1.73	1.56	3-102202-4
3	C	.420 (10.67)	A26614-ND	1.59	1.44	103080-1
4	A	.520 (13.21)	A26615-ND	1.59	1.44	103414-2
4	B	.520 (13.21)	A26616-ND	1.75	1.58	102202-1
4	C	.520 (13.21)	A26617-ND	1.05	.95	103080-2
5	A	.620 (15.75)	A26618-ND	2.22	2.00	103414-3
5	B	.620 (15.75)	A26619-ND	2.34	2.11	102202-2
5	C	.620 (15.75)	A26620-ND	2.20	1.99	103080-3
6	A	.720 (18.29)	A26621-ND	2.34	2.11	103414-4
6	B	.720 (18.29)	A26623-ND	2.43	2.19	102202-3
6	C	.720 (18.29)	A26624-ND	2.16	1.95	103080-4
7	A	.820 (20.83)	A26625-ND	2.43	2.19	103414-5
8	A	.920 (23.37)	A26628-ND	2.67	2.41	103414-6
8	B	.920 (23.37)	A26629-ND	2.49	2.25	102202-5
10	A	1.120 (28.45)	A26632-ND	2.31	2.09	103414-8
10	B	1.120 (28.45)	A26633-ND	2.76	2.49	102202-7
12	B	1.320 (33.53)	A26637-ND	3.12	2.81	102202-9
14	B	1.520 (38.61)	A26643-ND	3.36	3.03	1-102202-1
14	C	1.520 (38.61)	A26644-ND	3.30	2.97	1-103080-2
16	A	1.720 (43.69)	A26645-ND	4.02	3.62	1-103414-4
18	B	1.920 (48.77)	A26649-ND	4.11	3.70	1-102202-5
Fig. 1 – .025” (.64mm) Square Straight Post, with Standoffs — RoHS Compliant						
3	A	.420 (10.67)	A32977-ND	1.26	1.14	5-103414-1
3	B	.420 (10.67)	A32559-ND	1.76	1.59	8-102202-4
3	C	.420 (10.67)	A32978-ND	1.47	1.33	5-103080-1
4	A	.520 (13.21)	A32979-ND	1.83	1.65	5-103414-2
4	B	.520 (13.21)	A32551-ND	1.76	1.59	5-102202-1
4	C	.520 (13.21)	A32980-ND	1.74	1.57	5-103080-2
5	A	.620 (15.75)	A32981-ND	2.46	2.22	5-103414-3
5	B	.620 (15.75)	A32552-ND	1.89	1.71	5-102202-2
5	C	.620 (15.75)	A32982-ND	1.97	1.78	5-103080-3
6	A	.720 (18.29)	A32983-ND	2.22	2.00	5-103414-4
6	B	.720 (18.29)	A32984-ND	2.25	2.03	5-102202-3
7	A	.820 (20.83)	A32986-ND	2.25	2.03	5-103414-5
7	B	.820 (20.83)	A32553-ND	2.88	2.60	5-102202-4
7	C	.820 (20.83)	A32987-ND	2.10	1.89	5-103080-5
8	A	.920 (23.37)	A32988-ND	2.49	2.25	5-103414-6
8	B	.920 (23.37)	A32989-ND	2.31	2.08	5-102202-5
8	C	.920 (23.37)	A34988-ND	2.22	2.00	5-103080-6
9	B	1.020 (25.91)	A32990-ND	2.46	2.22	5-102202-6
10	A	1.120 (28.45)	A32991-ND	3.00	2.70	5-103414-8
10	B	1.120 (28.45)	A32554-ND	3.09	2.79	5-102202-7
10	C	1.120 (28.45)	A32992-ND	2.49	2.25	5-103080-8
11	B	1.220 (30.99)	A32993-ND	3.15	2.84	5-102202-8
12	A	1.320 (33.53)	A32994-ND	3.15	2.84	6-103414-0
12	B	1.320 (33.53)	A32995-ND	3.15	2.84	5-102202-9
12	C	1.320 (33.53)	A32996-ND	2.79	2.52	6-103080-0
13	A	1.420 (36.07)	A35006-ND	2.79	2.52	6-103414-1
14	A	1.520 (38.61)	A32998-ND	3.87	3.49	6-103414-2
14	B	1.520 (38.61)	A32999-ND	3.15	2.84	6-102202-1
16	A	1.720 (43.69)	A33001-ND	2.79	2.52	6-103414-4
16	B	1.720 (43.69)	A33002-ND	3.48	3.14	6-102202-3
20	B	2.120 (53.85)	A33007-ND	4.20	3.78	6-102202-7
Fig. 2 – .025” (.64mm) Square Right Angle Post, with Standoffs						
3	A	.420 (10.67)	A26654-ND	1.95	1.76	103361-1
3	B	.420 (10.67)	A26655-ND	1.66	1.50	3-102203-4
4	A	.520 (13.21)	A26657-ND	2.19	1.98	103361-2
4	B	.520 (13.21)	A26658-ND	1.84	1.66	102203-1
4	C	.520 (13.21)	A26659-ND	1.89	1.71	102523-1
5	A	.620 (15.75)	A26660-ND	2.07	1.87	103361-3
5	B	.620 (15.75)	A26661-ND	2.07	1.87	102203-2
5	C	.620 (15.75)	A26662-ND	1.98	1.79	102523-3
6	A	.720 (18.29)	A26663-ND	2.13	1.92	103361-4
7	A	.820 (20.83)	A26666-ND	2.37	2.14	103361-5
7	B	.820 (20.83)	A26667-ND	2.52	2.27	102203-4
8	A	.920 (23.37)	A26669-ND	2.70	2.43	103361-6
8	B	.920 (23.37)	A26670-ND	2.58	2.33	102203-5
8	C	.920 (23.37)	A26671-ND	3.03	2.73	102523-6
10	A	1.120 (28.45)	A26672-ND	3.42	3.08	103361-8
10	B	1.120 (28.45)	A26673-ND	4.14	3.73	102203-7
12	A	1.320 (33.53)	A26675-ND	4.32	3.89	1-103361-0
12	B	1.320 (33.53)	A26676-ND	4.59	4.14	102203-9
12	C	1.320 (33.53)	A26677-ND	1.47	1.33	1-102523-0
14	B	1.520 (38.61)	A26679-ND	5.22	4.70	1-102203-1
16	B	1.720 (43.69)	A26683-ND	5.25	4.73	1-102203-3
18	B	1.920 (48.77)	A26685-ND	5.70	5.13	1-102203-5
20	B	2.120 (53.85)	A26687-ND	5.40	4.86	1-102203-7
Fig. 2 – .025” (.64mm) Square Right Angle Post, with Standoffs — RoHS Compliant						
3	A	.420 (10.67)	A35068-ND	1.92	1.73	5-103361-1
3	B	.420 (10.67)	A33008-ND	1.78	1.61	8-102203-4
3	C	.420 (10.67)	A33009-ND	1.77	1.60	5-102523-2
4	A	.520 (13.21)	A33010-ND	1.98	1.79	5-103361-2
4	B	.520 (13.21)	A34978-ND	1.98	1.79	5-102203-1
4	C	.520 (13.21)	A33011-ND	1.50	1.35	5-102523-1
5	A	.620 (15.75)	A33012-ND	2.43	2.19	5-103361-3
5	B	.620 (15.75)	A33013-ND	2.07	1.87	5-102203-2
5	C	.620 (15.75)	A33014-ND	1.83	1.65	5-102523-3
6	A	.720 (18.29)	A32557-ND	2.49	2.25	5-103361-4
6	B	.720 (18.29)	A33015-ND	1.71	1.54	5-102203-3
6	C	.720 (18.29)	A34979-ND	2.25	2.03	5-102523-4
7	A	.820 (20.83)	A33016-ND	2.49	2.25	5-103361-5
7	B	.820 (20.83)	A33017-ND	2.40	2.16	5-102203-4
7	C	.820 (20.83)	A33018-ND	2.58	2.33	5-102523-5
8	A	.920 (23.37)	A33019-ND	3.03	2.73	5-103361-6
8	B	.920 (23.37)	A33020-ND	3.03	2.73	5-102203-5
8	C	.920 (23.37)	A33021-ND	2.61	2.35	5-102523-6
10	A	1.120 (28.45)	A32558-ND	3.06	2.76	5-103361-8
10	B	1.120 (28.45)	A33022-ND	3.57	3.22	5-102203-7
10	C	1.120 (28.45)	A33023-ND	2.94	2.65	5-102523-8
12	A	1.320 (33.53)	A33024-ND	4.14	3.73	6-103361-0
12	B	1.320 (33.53)	A33025-ND	3.06	2.76	5-102203-9
12	C	1.320 (33.53)	A34992-ND	3.30	2.97	6-102523-0
14	B	1.520 (38.61)	A33027-ND	3.60	3.24	6-102203-1
14	C	1.520 (38.61)	A34993-ND	3.21	2.89	6-102523-2
15	C	1.620 (41.15)	A33028-ND	4.59	4.14	6-102203-2
16	A	1.720 (43.69)	A33029-ND	3.99	3.60	6-103361-4
16	B	1.720 (43.69)	A33030-ND	5.55	5.00	6-102203-3
16	C	1.720 (43.69)	A33031-ND	3.36	3.03	6-102523-4
18	B	1.920 (48.77)	A34991-ND	5.67	5.11	6-102203-5
20	A	2.120 (53.85)	A35005-ND	4.80	4.32	6-103361-8
20	B	2.120 (53.85)	A33032-ND	5.85	5.27	6-102203-7
Double Row - .066” (1.68mm) Pin to Shroud End Dimension						
Fig. 3 – .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.412 (10.46)	A26708-ND	1.74	1.57	103168-1
6	B	.412 (10.46)	A26709-ND	2.04	1.84	102618-1
8	A	.512 (13.00)	A26711-ND	2.46	2.22	103168-2
8	B	.512 (13.00)	A26712-ND	2.07	1.87	102618-2
8	C	.512 (13.00)	A26713-ND	1.62	1.46	3-87589-5
10	A	.612 (15.54)	A26714-ND	3.24	2.92	103168-3
10	B	.612 (15.54)	A26715-ND	2.16	1.95	102618-3
10	C	.612 (15.54)	A26716-ND	2.10	1.89	87589-1

(Continued)

AMPMODU Shrouded Headers - .100" (2.54mm) Centers *(Cont.)*

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
12	A	.712 (18.08)	A26717-ND	3.60	3.24	103168-4
12	B	.712 (18.08)	A26718-ND	3.05	2.75	102618-4
12	C	.712 (18.08)	A26719-ND	1.92	1.60	87589-2
14	A	.812 (20.62)	A26720-ND	3.12	2.81	103168-5
14	B	.812 (20.62)	A26721-ND	2.55	2.30	102618-5
14	C	.812 (20.62)	A26722-ND	2.46	2.22	87589-3
16	A	.912 (23.16)	A26723-ND	4.29	3.87	103168-6
16	B	.912 (23.16)	A26724-ND	3.33	3.00	102618-6
16	C	.912 (23.16)	A26725-ND	3.12	2.81	87589-4
18	A	1.012 (25.70)	A26726-ND	3.63	3.27	103168-7
18	B	1.012 (25.70)	A26727-ND	3.36	3.03	102618-7
20	A	1.112 (28.24)	A26729-ND	4.74	4.27	103168-8
20	B	1.112 (28.24)	A26730-ND	3.60	3.24	102618-8
20	C	1.112 (28.24)	A26731-ND	3.15	2.84	87589-6
24	A	1.312 (33.32)	A26735-ND	5.55	5.00	1-103168-0
24	B	1.312 (33.32)	A26736-ND	3.48	3.14	1-102618-0
24	C	1.312 (33.32)	A26737-ND	2.61	2.35	87589-8
26	A	1.412 (35.86)	A26738-ND	6.09	5.49	1-103168-1
26	B	1.412 (35.86)	A26739-ND	5.91	5.32	1-102618-1
26	C	1.412 (35.86)	A26740-ND	3.60	3.24	87589-9
30	A	1.612 (40.94)	A26741-ND	6.66	6.00	1-103168-3
30	B	1.612 (40.94)	A26742-ND	6.00	5.40	1-102618-3
30	C	1.612 (40.94)	A26743-ND	3.36	3.03	1-87589-1
34	A	1.812 (46.02)	A26744-ND	8.61	7.75	1-103168-5
34	B	1.812 (46.02)	A26745-ND	5.31	4.78	1-102618-5
40	A	2.112 (53.64)	A26747-ND	11.82	10.64	1-103168-8
50	A	2.612 (66.34)	A26750-ND	12.93	11.64	2-103168-3
50	B	2.612 (66.34)	A26751-ND	8.40	7.56	2-102618-3
60	A	3.112 (79.04)	A26753-ND	13.32	11.99	2-103168-8
Fig. 3 – .025" (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
6	A	.412 (10.46)	A33034-ND	1.98	1.79	5-103168-1
6	B	.412 (10.46)	A33035-ND	1.80	1.62	5-102618-1
6	C	.412 (10.46)	A33036-ND	1.65	1.49	8-87589-6
8	A	.512 (13.00)	A33037-ND	2.10	1.89	5-103168-2
8	B	.512 (13.00)	A33038-ND	1.98	1.79	5-102618-2
8	C	.512 (13.00)	A33039-ND	1.62	1.46	8-87589-5
10	A	.612 (15.54)	A33040-ND	2.46	2.22	5-103168-3
10	B	.612 (15.54)	A33041-ND	2.52	2.27	5-102618-3
10	C	.612 (15.54)	A33042-ND	2.52	2.27	5-87589-1
12	A	.712 (18.08)	A33043-ND	3.18	2.87	5-103168-4
12	B	.712 (18.08)	A33044-ND	2.66	2.40	5-102618-4
12	C	.712 (18.08)	A33045-ND	1.86	1.55	5-87589-2
14	A	.812 (20.62)	A33046-ND	3.57	3.22	5-103168-5
14	B	.812 (20.62)	A33047-ND	2.85	2.57	5-102618-5
14	C	.812 (20.62)	A33048-ND	2.10	1.89	5-87589-3
16	A	.912 (23.16)	A33049-ND	3.60	3.24	5-103168-6
16	B	.912 (23.16)	A33050-ND	2.94	2.65	5-102618-6
16	C	.912 (23.16)	A33051-ND	2.55	2.30	5-87589-4
18	A	1.012 (25.70)	A32555-ND	4.32	3.89	5-103168-7
18	B	1.012 (25.70)	A33052-ND	3.81	3.43	5-102618-7
18	C	1.012 (25.70)	A33053-ND	2.94	2.65	5-87589-5
20	A	1.112 (28.24)	A32556-ND	4.44	4.00	5-103168-8
20	B	1.112 (28.24)	A33054-ND	3.87	3.49	5-102618-8
20	C	1.112 (28.24)	A33055-ND	3.81	3.43	5-87589-6
22	A	1.212 (30.78)	A33056-ND	4.50	4.05	5-103168-9
22	B	1.212 (30.78)	A34987-ND	3.90	3.51	5-102618-9
24	A	1.312 (33.32)	A33057-ND	5.61	5.05	6-103168-0
24	B	1.312 (33.32)	A33058-ND	4.02	3.62	6-102618-0
24	C	1.312 (33.32)	A33059-ND	3.42	3.08	5-87589-8
26	A	1.412 (35.86)	A33060-ND	5.70	5.13	6-103168-1
26	B	1.412 (35.86)	A33061-ND	5.19	4.68	6-102618-1
26	C	1.412 (35.86)	A33062-ND	3.57	3.22	5-87589-9
30	A	1.612 (40.94)	A33063-ND	6.24	5.62	6-103168-3
30	C	1.612 (40.94)	A33065-ND	3.54	3.19	6-87589-1
34	A	1.812 (46.02)	A33066-ND	6.99	6.30	6-103168-5
34	B	1.812 (46.02)	A33067-ND	6.42	5.78	6-102618-5
34	C	1.812 (46.02)	A33068-ND	4.23	3.81	6-87589-3
40	A	2.112 (53.64)	A33069-ND	7.80	7.02	6-103168-8
40	B	2.112 (53.64)	A33070-ND	6.45	5.81	6-102618-8
40	C	2.112 (53.64)	A33071-ND	3.90	3.51	6-87589-6
50	A	2.612 (66.34)	A33072-ND	10.14	9.13	7-103168-3
50	B	2.612 (66.34)	A33073-ND	8.82	7.94	7-102618-3
50	C	2.612 (66.34)	A33074-ND	4.86	4.38	7-87589-1
60	B	3.112 (79.04)	A35010-ND	7.17	6.46	7-102618-8
Fig. 4 – .025" (.64mm) Square Right-Angle Post, with Detent Windows						
6	A	.412 (10.46)	A26756-ND	1.86	1.68	103166-1
6	B	.412 (10.46)	A26757-ND	1.74	1.57	102617-1
6	C	.412 (10.46)	A26758-ND	1.83	1.65	3-87579-5
8	A	.512 (13.00)	A26759-ND	1.95	1.76	103166-2
8	B	.512 (13.00)	A26760-ND	1.80	1.62	102617-2
8	C	.512 (13.00)	A26761-ND	1.68	1.52	87579-1
10	A	.612 (15.54)	A26762-ND	2.25	2.03	103166-3
10	B	.612 (15.54)	A26763-ND	2.55	2.30	102617-3
10	C	.612 (15.54)	A26764-ND	1.77	1.60	87579-2
12	A	.712 (18.08)	A26765-ND	3.33	3.00	103166-4
12	B	.712 (18.08)	A26766-ND	2.61	2.35	102617-4
14	A	.812 (20.62)	A26768-ND	3.00	2.70	103166-5
14	B	.812 (20.62)	A26769-ND	2.67	2.41	102617-5
16	A	.912 (23.16)	A26771-ND	3.66	3.30	103166-6
16	B	.912 (23.16)	A26772-ND	2.94	2.65	102617-6
20	A	1.112 (28.24)	A26777-ND	4.35	3.92	103166-8
20	B	1.112 (28.24)	A26778-ND	2.94	2.65	102617-8
20	C	1.112 (28.24)	A26779-ND	2.67	2.41	87579-7
24	A	1.312 (33.32)	A26780-ND	4.71	4.24	1-103166-0
26	A	1.412 (35.86)	A26783-ND	4.93	4.45	1-103166-1
26	B	1.412 (35.86)	A26784-ND	4.56	4.11	1-102617-1
26	C	1.412 (35.86)	A26785-ND	3.72	3.35	1-87579-0
30	A	1.612 (40.94)	A26786-ND	9.99	9.00	1-103166-3
30	B	1.612 (40.94)	A26787-ND	5.16	4.65	1-102617-3
34	A	1.812 (46.02)	A26789-ND	9.33	8.40	1-103166-5
40	A	2.112 (53.64)	A26791-ND	9.90	8.91	1-103166-8
50	A	2.612 (66.34)	A26794-ND	12.24	11.02	2-103166-3
Fig. 4 – .025" (.64mm) Square Right-Angle Post, with Detent Windows — RoHS Compliant						
6	A	.412 (10.46)	A33076-ND	1.92	1.73	5-103166-1
6	B	.412 (10.46)	A33077-ND	2.04	1.84	5-102617-1
6	C	.412 (10.46)	A33078-ND	1.92	1.73	8-87579-5
8	A	.512 (13.00)	A33079-ND	2.34	2.11	5-103166-2
8	B	.512 (13.00)	A33080-ND	2.55	2.30	5-102617-2
10	A	.612 (15.54)	A33081-ND	3.12	2.81	5-103166-3
10	B	.612 (15.54)	A33082-ND	2.70	2.43	5-102617-3
10	C	.612 (15.54)	A33083-ND	1.74	1.57	5-87579-2
12	A	.712 (18.08)	A33084-ND	3.15	2.84	5-103166-4
12	B	.712 (18.08)	A34984-ND	2.88	2.60	5-102617-4
12	C	.712 (18.08)	A33085-ND	1.92	1.73	5-87579-3
14	A	.812 (20.62)	A33086-ND	3.57	3.22	5-103166-5
14	B	.812 (20.62)	A34985-ND	4.08	3.68	5-102617-5
14	C	.812 (20.62)	A34989-ND	2.07	1.87	5-87579-4
16	A	.912 (23.16)	A33087-ND	3.84	3.46	5-103166-6
16	B	.912 (23.16)	A33088-ND	4.08	3.68	5-102617-6
16	C	.912 (23.16)	A33089-ND	2.31	2.08	5-87579-5
18	A	1.012 (25.70)	A33090-ND	3.87	3.49	5-103166-7
18	B	1.012 (25.70)	A34986-ND	3.00	2.70	5-102617-7
18	C	1.012 (25.70)	A33091-ND	2.52	2.27	5-87579-6
20	A	1.112 (28.24)	A33092-ND	4.05	3.65	5-103166-8
20	B	1.112 (28.24)	A33093-ND	3.06	2.76	5-102617-8
20	C	1.112 (28.24)	A33094-ND	2.55	2.30	5-87579-7
24	A	1.312 (33.32)	A33095-ND	5.31	4.78	6-103166-0
24	B	1.312 (33.32)	A34347-ND	4.41	3.97	6-102617-0
24	C	1.312 (33.32)	A33096-ND	3.78	3.41	5-87579-9
26	A	1.412 (35.86)	A33097-ND	5.37	4.84	6-103166-1
26	B	1.412 (35.86)	A34999-ND	4.26	3.84	6-102617-1
26	C	1.412 (35.86)	A33098-ND	3.51	3.16	6-87579-0
30	A	1.612 (40.94)	A33099-ND	5.82	5.24	6-103166-3
30	B	1.612 (40.94)	A35000-ND	4.83	4.35	6-102617-3
30	C	1.612 (40.94)	A35007-ND	3.96	3.57	6-87579-2
34	A	1.812 (46.02)	A33100-ND	6.60	5.94	6-103166-5
34	B	1.812 (46.02)	A35001-ND	5.49	4.95	6-102617-5
40	A	2.112 (53.64)	A33101-ND	7.14	6.43	6-103166-8
40	B	2.112 (53.64)	A33102-ND	6.27	5.65	6-102617-8
40	C	2.112 (53.64)	A35008-ND	4.68	4.22	6-87579-7
50	A	2.612 (66.34)	A35012-ND	8.67	7.81	7-103166-3
50	B	2.612 (66.34)	A35009-ND	7.05	6.35	7-102617-3
50	C	2.612 (66.34)	A35013-ND	6.27	5.65	7-87579-2
Fig. 5 – ACTION PIN .025" (.64mm) Square Straight Post, with Detent Windows						
6	A	.412 (10.46)	A26690-ND	5.01	4.51	102699-2
8	A	.512 (13.00)	A26692-ND	5.91	5.32	102699-3
10	A	.612 (15.54)	A26694-ND	6.18	5.57	102699-4
16	A	.912 (23.16)	A26696-ND	7.74	6.97	102699-7
20	A	1.112 (28.24)	A26698-ND	10.92	9.83	102699-9
30	A	1.612 (40.94)	A26702-ND	10.71	9.64	1-102699-4
40	A	2.112 (53.64)	A26704-ND	12.24	11.02	1-102699-9
Fig. 5 – ACTION PIN .025" (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
6	A	.412 (10.46)	A33103-ND	6.15	5.54	5-102699-2
8	A	.512 (13.00)	A33104-ND	7.14	6.43	5-102699-3
10	A	.612 (15.54)	A33105-ND	7.44	6.70	5-102699-4
16	A	.912 (23.16)	A33106-ND	10.38	9.35	5-102699-7
20	A	1.112 (28.24)	A33107-ND	11.97	10.78	5-102699-9
Fig. 3 – .025" (.64mm) Square Straight Post, with Detent Windows						
6	A	.580 (14.73)	A26815-ND	1.68	1.52	103169-1
6	B	.580 (14.73)	A26816-ND	1.83	1.65	102619-1
8	A	.680 (17.27)	A26817-ND	2.19	1.98	103169-2
10	A	.780 (19.81)	A26819-ND	2.58	2.33	103169-3
10	B	.780 (19.81)	A26820-ND	1.83	1.65	102619-3
12	B	.880 (22.35)	A26822-ND	2.67	2.41	102619-4
14	A	.980 (24.89)	A26823-ND	2.67	2.41	103169-5
16	A	1.080 (27.43)	A26825-ND	3.51	3.16	103169-6
16	B	1.080 (27.43)	A26826-ND	3.21	2.89	102619-6
20	A	1.280 (32.51)	A26828-ND	4.07	3.67	103169-8
24	A	1.480 (37.59)	A26830-ND	4.35	3.92	1-103169-0
26	A	1.580 (40.13)	A26832-ND	4.59	4.14	1-103169-1
26	B	1.580 (40.13)	A26833-ND	3.66	3.30	1-102619-1
34	A	1.980 (50.29)	A26836-ND	6.06	5.46	1-103169-5
50	A	2.780 (70.61)	A26840-ND	12.03	10.83	2-103169-3
50	B	2.780 (70.61)	A26841-ND	8.40	7.56	2-102619-3
Fig. 3 – .025" (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
6	A	.580 (14.73)	A33112-ND	1.92	1.73	5-103169-1
6	B	.580 (14.73)	A33113-ND	1.59	1.44	5-102619-1
8	A	.680 (17.27)	A33114-ND	2.43	2.19	5-103169-2
8	B	.680 (17.27)	A33115-ND	1.74	1.57	5-102619-2
10	A	.780 (19.81)	A33116-ND	2.37	2.14	5-103169-3
10	B	.780 (19.81)	A33117-ND	2.04	1.84	5-102619-3
12	A	.880 (22.35)	A33118-ND	2.73	2.46	5-103169-4
12	B	.880 (22.35)	A33119-ND	2.49	2.25	5-102619-4
14	A	.980 (24.89)	A33120-ND	3.09	2.79	5-103169-5
14	B	.980 (24.89)	A33121-ND	2.94	2.65	5-102619-5
16	A	1.080 (27.43)	A33122-ND	3.80	3.43	5-103169-6
16	B	1.080 (27.43)	A33123-ND	3.09	2.79	5-102619-6
18	A	1.180 (29.97)	A33124-ND	3.12	2.81	5-103169-7
20	A	1.280 (32.51)	A33125-ND	4.40	3.97	5-103169-8
20	B	1.280 (32.51)	A33126-ND	3.27	2.95	5-102619-8
24	A	1.480 (37.59)	A33127-ND	4.08	3.68	6-103169-0
24	B	1.480 (37.59)	A33128-ND	3.90	3.51	6-102619-0
26	A	1.580 (40.13)	A33129-ND	5.37	4.84	6-103169-1
26	B	1.580 (40.13)	A33130-ND	4.26	3.84	6-102619-1
30	A	1.780 (45.21)	A33131-ND	6.33	5.70	6-103169-3
30	B	1.780 (45.21)	A33132-ND	4.68	4.22	6-102619-3
34	A	1.980 (50.29)	A33133-ND	6.24	5.62	6-103169-5
40	A	2.280 (57.91)	A33135-ND	8.28	7.46	6-103169-8
40	B	2.280 (57.91)	A33136-ND	7.32	6.59	6-102619-8
50	A	2.780 (70.61)	A33137-ND	10.53	9.48	7-103169-3
50	B	2.780 (70.61)	A33138-ND	7.59	6.84	7-102619-3
Fig. 4 – .025" (.64mm) Square Right-Angle Post, with Detent Windows						
10	B	.780 (19.81)	A26798-ND	2.64	2.38	102570-3
14	A	.980 (24.89)	A26801-ND	3.93	3.54	103167-4
14	B	.980 (24.89)	A26802-ND	3.21	2.89	102570-5
16	A	1.080 (27.43)	A26803-ND	4.44	4.00	103167-5
16	B	1.080 (27.43)	A26804-ND	3.36	3.03	102570-6
20	A	1.280 (32.51)	A26805-ND	5.22	4.70	103167-7
24	A	1.480 (37.59)	A26807-ND	6.48	5.84	103167-9
26	A	1.580 (40.13)	A26809-ND	5.61	5.05	1-103167-0
34	A	1.980 (50.29)	A26811-ND	7.44	6.70	1-103167-4
Fig. 4 – .025" (.64mm) Square Right-Angle Post, with Detent Windows — RoHS Compliant						
10	A	.780 (19.81)	A33140-ND	2.34	2.11	5-103167-2
12	A	.880 (22.35)	A33141-ND	2.67	2.41	5-103167-3
12	B	.880 (22.35)	A34982-ND	2.25	2.03	5-102570-4
14	A	.980 (24.89)	A33142-ND	3.00	2.70	5-103167-4
14	B	.980 (24.89)	A34983-ND	2.49	2.25	5-102570-5
16	A	1.080 (27.43)	A33143-ND	3.66	3.30	5-103167-5
16	B	1.080 (27.43)	A34338-ND	2.79	2.52	5-102570-6
20	A	1.280 (32.51)	A33144-ND	4.95	4.46	5-103167-7
20	B	1.280 (32.51)	A34348-ND	3.30	2.97	5-102570-8
24	B	1.480 (37.59)	A33146-ND	4.74	4.27	6-102570-0
26	A	1.580 (40.13)	A33147-ND	5.25	4.73	6-103167-0
26	B	1.580 (40.13)	A34997-ND	4.26	3.84	6-102570-1
34	A	1.980 (50.29)	A33148-ND	7.65	6.89	6-103167-4
34	B	1.980 (50.29)	A34998-ND	5.49	4.95	6-102570-5
40	B	2.280 (57.91)	A33149-ND	6.27	5.65	5-102570-1
Fig. 5 – ACTION PIN .025" (.64mm) Square Straight Post, with Detent Windows						
8	A	.680 (17.27)	A26693-ND	6.30	5.67	1-102557-1
10	A	.780 (19.81)	A26695-ND	6.48	5.84	102557-9
40	A	2.280 (57.91)	A26705-ND	16.14	14.53	102557-1
Fig. 5 – ACTION PIN .025" (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
40	A	2.280 (57.91)	A33153-ND	10.32	9.29	5-102557-1
60	A	3.280 (83.31)	A34981-ND	14.28	12.86	5-102557-7

AMPMODU MTE Shrouded Latching Headers - .100" Centers

Material:
- Housing: Black thermoplastic, 94V-0 rated
- Posts: Brass

Contact Plating:

A: 30μ gold on contact area, 100μ minimum tin-lead on solder area, with entire post underplated 50μ nickel

B: 15μ gold on contact area, 100μ minimum, tin-lead on solder area, with entire post underplated 50μ nickel

C: 100μ Tin-lead over 50μ nickel on entire post

D: 100μ Tin over 50μ nickel on entire post

Fig. 1

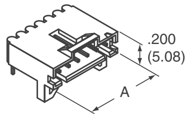

Fig. 2

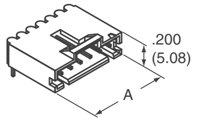

Fig. 3

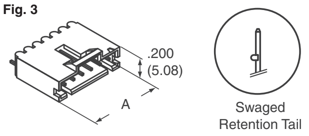

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Single Row, .025" (.64mm) Square Right Angle Post, with Holddown						
2	A	.300 (7.62)	A28574-ND	.74	.67	103904-1
2	B	.300 (7.62)	A28575-ND	.70	.63	103673-1
2	C	.300 (7.62)	A28576-ND	.43	.39	103672-1
3	A	.400 (10.16)	A28577-ND	.81	.73	103904-2
3	B	.400 (10.16)	A28578-ND	.76	.69	103673-2
3	C	.400 (10.16)	A28579-ND	.73	.66	103672-2
4	A	.500 (12.70)	A28580-ND	.93	.84	103904-3
4	B	.500 (12.70)	A28581-ND	.80	.72	103673-3
4	C	.500 (12.70)	A28582-ND	.58	.53	103672-3
5	B	.600 (15.24)	A28584-ND	.96	.87	103673-4
6	A	.700 (17.78)	A28586-ND	1.51	1.36	103904-5
6	B	.700 (17.78)	A28587-ND	1.01	.91	103673-5
7	B	.800 (20.32)	A28590-ND	1.09	.98	103673-6

(Continued)

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
8	A	.900 (22.86)	A28592-ND	1.16	1.05	103904-7
8	B	.900 (22.86)	A28593-ND	1.17	1.05	103673-7
10	A	1.100 (27.94)	A28596-ND	1.25	1.13	103904-9
10	B	1.100 (27.94)	A28597-ND	1.34	1.21	103673-9
14	B	1.500 (38.10)	A28606-ND	2.05	1.85	1-103673-3
16	B	1.700 (43.18)	A28608-ND	1.82	1.65	1-103673-5
17	B	1.800 (45.72)	A28522-ND	1.96	1.77	1-103673-6
20	B	2.100 (53.34)	A28613-ND	2.20	1.99	1-103673-9

Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Holddown — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A35021-ND	.94	.85	5-103904-1
2	B	.300 (7.62)	A33839-ND	.70	.63	5-103673-1
2	D	.300 (7.62)	A33840-ND	.64	.58	5-103672-1
3	A	.400 (10.16)	A33841-ND	.79	.71	5-103904-2
3	B	.400 (10.16)	A33842-ND	.72	.65	5-103673-2
3	D	.400 (10.16)	A33843-ND	.70	.63	5-103672-2
4	A	.500 (12.70)	A33844-ND	.85	.77	5-103904-3
4	B	.500 (12.70)	A33845-ND	.75	.68	5-103673-3
4	C	.500 (12.70)	A35017-ND	.67	.61	5-103672-3
5	A	.600 (15.24)	A33846-ND	1.06	.96	5-103904-4
5	B	.600 (15.24)	A33847-ND	.96	.87	5-103673-4
5	C	.600 (15.24)	A35018-ND	.71	.64	5-103672-4
6	A	.700 (17.78)	A33848-ND	1.13	1.02	5-103904-5
6	B	.700 (17.78)	A33849-ND	.87	.78	5-103673-5
6	D	.700 (17.78)	A33850-ND	.76	.69	5-103672-5
7	A	.800 (20.32)	A35022-ND	1.23	1.12	5-103904-6
7	B	.800 (20.32)	A35020-ND	1.25	1.13	5-103673-6
8	A	.900 (22.86)	A35023-ND	1.33	1.20	5-103904-7
8	B	.900 (22.86)	A33852-ND	.96	.87	5-103673-7
8	C	.900 (22.86)	A35019-ND	1.23	1.12	5-103672-7
9	B	1,000 (25.40)	A33853-ND	1.25	1.13	5-103673-8
10	A	1.100 (27.94)	A33155-ND	1.44	1.30	5-103904-9
10	B	1,100 (27.94)	A33854-ND	1.20	1.08	5-103673-9
10	C	1.100 (27.94)	A34349-ND	1.31	1.18	5-103672-9
11	B	1.200 (30.48)	A35030-ND	2.27	2.05	6-103673-0
12	A	1.300 (33.02)	A35036-ND	2.26	2.04	6-103904-1
12	B	1.300 (33.02)	A35031-ND	1.80	1.62	6-103673-1
12	C	1.300 (33.02)	A35027-ND	2.04	1.84	6-103672-1
14	A	1.500 (38.10)	A35037-ND	3.27	2.95	6-103904-3
14	B	1.500 (38.10)	A35032-ND	2.05	1.85	6-103673-3
15	B	1.600 (40.64)	A35033-ND	2.08	1.88	6-103673-4
16	C	1.700 (43.18)	A35028-ND	1.82	1.64	6-103672-5
17	B	1.800 (45.72)	A35034-ND	2.25	2.03	6-103673-6
20	A	2.100 (53.34)	A35038-ND	3.98	3.59	6-103904-9
20	B	2.100 (53.34)	A35035-ND	2.53	2.28	6-103673-9

Fig. 2 — Single Row, .025” (.64mm) Square Right Angle Post, without Holddown

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28618-ND	.62	.56	103906-1
2	B	.300 (7.62)	A28619-ND	.53	.48	103635-1
2	C	.300 (7.62)	A28620-ND	.55	.50	103634-1
3	A	.400 (10.16)	A28621-ND	.73	.66	103906-2
3	B	.400 (10.16)	A28622-ND	.66	.60	103635-2
3	C	.400 (10.16)	A28623-ND	.60	.55	103634-2
4	A	.500 (12.70)	A28624-ND	.80	.73	103906-3
4	B	.500 (12.70)	A28625-ND	.73	.67	103635-3
4	C	.500 (12.70)	A28626-ND	.69	.62	103634-3
5	A	.600 (15.24)	A28627-ND	.92	.83	103906-4
5	B	.600 (15.24)	A28628-ND	.80	.73	103635-4
5	C	.600 (15.24)	A28629-ND	.72	.65	103634-4
6	A	.700 (17.78)	A28630-ND	.72	.66	103906-5
6	B	.700 (17.78)	A28631-ND	.87	.79	103635-5
7	A	.800 (20.32)	A28633-ND	.65	.59	103906-6
8	A	.900 (22.86)	A28636-ND	1.77	1.59	103906-7
8	B	.900 (22.86)	A28637-ND	1.01	.91	103635-7
9	A	1.000 (25.40)	A28639-ND	1.28	1.16	103906-8
9	B	1.000 (25.40)	A28640-ND	1.67	1.50	103635-8
9	C	1.000 (25.40)	A28641-ND	.93	.84	103634-8
10	A	1.100 (27.94)	A28642-ND	1.33	1.20	103906-9
10	B	1.100 (27.94)	A28643-ND	1.16	1.05	103635-9
12	A	1.300 (33.02)	A28648-ND	1.61	1.45	1-103906-1
12	B	1.300 (33.02)	A28649-ND	1.36	1.22	1-103635-1
14	C	1.500 (38.10)	A28655-ND	1.94	1.75	1-103634-3
15	B	1.600 (40.64)	A28656-ND	1.49	1.35	1-103635-4
16	C	1.700 (43.18)	A28659-ND	1.69	1.53	1-103634-5
20	A	2.100 (53.34)	A28661-ND	2.32	2.09	1-103906-9
20	B	2.100 (53.34)	A28662-ND	1.92	1.73	1-103635-9

Fig. 2 — Single Row, .025” (.64mm) Square Right Angle Post, without Holddown — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33855-ND	.86	.78	5-104935-5
2	B	.300 (7.62)	A33856-ND	.73	.66	5-103635-1
2	D	.300 (7.62)	A33857-ND	.61	.55	5-103634-1
3	A	.400 (10.16)	A33858-ND	.91	.83	5-104935-3
3	B	.400 (10.16)	A32563-ND	.85	.77	5-103635-2
3	D	.400 (10.16)	A33859-ND	.67	.60	5-103634-2
4	A	.500 (12.70)	A33860-ND	.94	.85	5-104935-1
4	B	.500 (12.70)	A33861-ND	.91	.83	5-103635-3
4	D	.500 (12.70)	A33862-ND	.76	.69	5-103634-3
5	A	.600 (15.24)	A33863-ND	.92	.83	5-104935-6
5	B	.600 (15.24)	A33864-ND	.88	.80	5-103635-4
5	D	.600 (15.24)	A33865-ND	.79	.72	5-103634-4
6	A	.700 (17.78)	A33866-ND	1.14	1.03	5-104935-7
6	B	.700 (17.78)	A33867-ND	.96	.87	5-103635-5
6	D	.700 (17.78)	A33868-ND	.88	.79	5-103634-5
7	A	.800 (20.32)	A33869-ND	1.21	1.10	5-104935-8
7	B	.800 (20.32)	A33870-ND	1.04	.94	5-103635-6
7	D	.800 (20.32)	A33871-ND	.93	.84	5-103634-6
8	A	.900 (22.86)	A33872-ND	1.01	.91	5-104935-2
8	B	.900 (22.86)	A33873-ND	1.11	1.01	5-103635-7
8	D	.900 (22.86)	A32562-ND	.86	.78	5-103634-7
9	A	1.000 (25.40)	A33874-ND	1.28	1.16	5-104935-9
9	B	1.000 (25.40)	A33875-ND	1.19	1.08	5-103635-8
9	D	1.000 (25.40)	A33876-ND	1.02	.93	5-103634-8
10	A	1.100 (27.94)	A33877-ND	1.33	1.20	6-104935-0
10	B	1.100 (27.94)	A33878-ND	1.27	1.15	5-103635-9
10	D	1.100 (27.94)	A33879-ND	.97	.88	5-103634-9
11	A	1.200 (30.48)	A35041-ND	1.47	1.33	6-104935-1
11	B	1.200 (30.48)	A33880-ND	1.41	1.28	6-103635-0
11	D	1.200 (30.48)	A33881-ND	1.16	1.05	6-103634-0
12	A	1.300 (33.02)	A33882-ND	1.32	1.20	5-104935-4
12	B	1.300 (33.02)	A33883-ND	1.49	1.35	6-103635-1
12	D	1.300 (33.02)	A33884-ND	1.36	1.23	6-103634-1
14	A	1.500 (38.10)	A35042-ND	2.67	2.41	6-104935-3
14	B	1.500 (38.10)	A33885-ND	1.55	1.40	6-103635-3
14	D	1.500 (38.10)	A33886-ND	1.39	1.25	6-103634-3
15	B	1.600 (40.64)	A33887-ND	1.64	1.48	6-103635-4
15	D	1.600 (40.64)	A33888-ND	1.45	1.31	6-103634-4
16	B	1.700 (43.18)	A33889-ND	1.86	1.68	6-103635-5
16	D	1.700 (43.18)	A33890-ND	1.68	1.51	6-103634-5
20	A	2.100 (53.34)	A35043-ND	2.32	2.09	6-104935-9
20	B	2.100 (53.34)	A33891-ND	1.99	1.79	6-103635-9

Polarized

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28473-ND	.62	.56	103908-1
2	B	.300 (7.62)	A28474-ND	.59	.53	103670-1
2	C	.300 (7.62)	A28475-ND	.52	.47	103669-1
3	A	.400 (10.16)	A28476-ND	.71	.64	103908-2
3	B	.400 (10.16)	A28477-ND	.66	.60	103670-2
3	C	.400 (10.16)	A28478-ND	.60	.55	103669-2
4	A	.500 (12.70)	A28479-ND	.80	.73	103908-3
4	B	.500 (12.70)	A28480-ND	.73	.67	103670-3
4	C	.500 (12.70)	A28481-ND	.67	.60	103669-3
5	A	.600 (15.24)	A28482-ND	.89	.80	103908-4
5	B	.600 (15.24)	A28483-ND	.80	.73	103670-4
5	C	.600 (15.24)	A28484-ND	.72	.65	103669-4
6	A	.700 (17.78)	A28485-ND	.98	.88	103908-5
6	B	.700 (17.78)	A28486-ND	.82	.75	103670-5
6	C	.700 (17.78)	A28487-ND	.77	.70	103669-5
7	B	.800 (20.32)	A28489-ND	1.01	.92	103670-6
8	A	.900 (22.86)	A28491-ND	1.15	1.04	103908-7
8	B	.900 (22.86)	A28492-ND	1.01	.91	103670-7
8	C	.900 (22.86)	A28493-ND	.87	.79	103669-7
9	A	1.000 (25.40)	A28494-ND	1.91	1.73	103908-8
10	A	1.100 (27.94)	A28497-ND	1.33	1.20	103908-9
10	B	1.100 (27.94)	A28498-ND	1.19	1.08	103670-9
10	C	1.100 (27.94)	A28499-ND	.99	.89	103669-9
11	A	1.200 (30.48)	A28500-ND	1.37	1.24	1-103908-0
12	A	1.300 (33.02)	A28503-ND	1.56	1.41	1-103908-1
12	B	1.300 (33.02)	A28504-ND	1.36	1.22	1-103670-1
14	A	1.500 (38.10)	A28508-ND	1.74	1.57	1-103908-3
14	B	1.500 (38.10)	A28509-ND	1.64	1.48	1-103670-3
15	B	1.600 (40.64)	A28512-ND	3.32	2.99	1-103670-4
16	A	1.700 (43.18)	A28514-ND	1.93	1.74	1-103908-5
16	B	1.700 (43.18)	A28515-ND	1.64	1.48	1-103670-5
17	C	1.800 (45.72)	A28517-ND	2.17	1.96	1-103669-6
20	B	2.100 (53.34)	A28519-ND	1.97	1.78	1-103670-9

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33892-ND	.97	.88	5-103908-1
2	D	.300 (7.62)	A33893-ND	.57	.52	5-103669-1
3	A	.400 (10.16)	A33894-ND	.87	.79	5-103908-2
3	D	.400 (10.16)	A33895-ND	.67	.60	5-103669-2
4	A	.500 (12.70)	A33896-ND	.88	.80	5-103908-3
4	D	.500 (12.70)	A33897-ND	.73	.66	5-103669-3
5	A	.600 (15.24)	A33898-ND	.98	.88	5-103908-4
5	D	.600 (15.24)	A33899-ND	.79	.72	5-103669-4
6	A	.700 (17.78)	A33900-ND	1.07	.97	5-103908-5
6	C	.700 (17.78)	A35016-ND	.89	.80	5-103669-5
7	A	.800 (20.32)	A33901-ND	1.17	1.06	5-103908-6
7	D	.800 (20.32)	A33902-ND	.91	.82	5-103669-6
8	A	.900 (22.86)	A33903-ND	1.26	1.14	5-103908-7
8	D	.900 (22.86)	A33904-ND	.96	.87	5-103669-7
9	A	1.000 (25.40)	A33905-ND	1.37	1.24	5-103908-8
9	D	1.000 (25.40)	A33906-ND	1.02	.93	5-103669-8
10	A	1.100 (27.94)	A33907-ND	1.46	1.32	5-103908-9
10	B	1.100 (27.94)	A32566-ND	1.45	1.31	5-104362-9
10	D	1.100 (27.94)	A33908-ND	1.09	.98	5-103669-9
11	A	1.200 (30.48)	A33909-ND	1.51	1.37	6-103908-0
11	B	1.200 (30.48)	A33910-ND	1.54	1.39	6-104362-0
11	D	1.200 (30.48)	A32560-ND	1.44	1.30	6-103669-0
12	A	1.300 (33.02)	A33911-ND	1.72	1.55	6-103908-1
12	D	1.300 (33.02)	A33912-ND	1.25	1.13	6-103669-1
14	A	1.500 (38.10)	A33913-ND	1.92	1.73	6-103908-3
14	B	1.500 (38.10)	A33914-ND	1.84	1.66	6-104909-3
14	D	1.500 (38.10)	A33915-ND	1.22	1.11	6-103669-3
15	A	1.600 (40.64)	A33916-ND	2.01	1.81	6-103908-4
15	B	1.600 (40.64)	A33917-ND	1.99	1.80	6-104909-4
16	A	1.700 (43.18)	A35039-ND	3.26	2.94	6-103908-5
16	B	1.700 (43.18)	A33918-ND	2.00	1.80	6-104909-5
17	B	1.800 (45.72)	A33919-ND	3.25	2.93	6-104909-6
17	C	1.800 (45.72)	A35025-ND	1.62	1.46	6-103669-6
20	A	2.100 (53.34)	A33920-ND	2.47	2.23	6-103908-9
20	B	2.100 (53.34)	A35040-ND	2.37	2.14	6-104909-9

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, without Holddown and without Swage Retention Tail

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28523-ND	.62	.56	103735-1
2	B	.300 (7.62)	A28524-ND	.53	.48	103638-1
2	C	.300 (7.62)	A28525-ND	.55	.50	103639-1
3	A	.400 (10.16)	A28526-ND	.67	.61	103735-2
3	B	.400 (10.16)	A28527-ND	.43	.39	103638-2
3	C	.400 (10.16)	A28528-ND	.60	.55	103639-2
4	A	.500 (12.70)	A28529-ND	.80	.73	103735-3
4	B	.500 (12.70)	A28530-ND	.73	.67	103638-3
4	C	.500 (12.70)	A28531-ND	.67	.60	103639-3
5	A	.600 (15.24)	A28532-ND	.89	.80	103735-4
5	B	.600 (15.24)	A28533-ND	.77	.70	103638-4
5	C	.600 (15.24)	A28534-ND	1.14	1.03	103639-4
6	A	.700 (17.78)	A28535-ND	.98	.88	103735-5
6	B	.700 (17.78)	A28536-ND	.87	.79	103638-5
6	C	.700 (17.78)	A28537-ND	.80	.72	103639-5
7	B	.800 (20.32)	A28539-ND	.94	.85	103638-6
7	C	.800 (20.32)	A28540-ND	.82	.75	103639-6
8	B	.900 (22.86)	A28542-ND	1.01	.91	103638-7
8	C	.900 (22.86)	A28543-ND	.87	.79	103639-7
9	B	1.000 (25.40)	A28545-ND	1.08	.98	103638-8
9	C	1.000 (25.40)	A28546-ND	1.29	1.16	103639-8
11	B	1.200 (30.48)	A28551-ND	1.09	.98	1-103638-0
12	A	1.300 (33.02)	A28553-ND	1.46	1.32	1-103735-1
12	B	1.300 (33.02)	A28554-ND	1.36	1.22	1-103638-1
14	B	1.500 (38.10)	A28559-ND	1.50	1.35	1-103638-3
16	B	1.700 (43.18)	A28563-ND	1.45	1.31	1-103638-5
16	C	1.700 (43.18)	A28564-ND	1.37	1.24	1-103639-5
17	A	1.800 (45.72)	A28520-ND	3.67	3.30	1-103735-6
20	B	2.100 (53.34)	A28569-ND	1.91	1.72	1-103638-9

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, without Holddown and without Swage Retention Tail — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33921-ND	.68	.62	5-103735-1
2	B	.300 (7.62)	A33922-ND	.70	.63	5-104363-1
2	D	.300 (7.62)	A33923-ND	.61	.55	5-103639-1
3	A	.400 (10.16)	A33924-ND	.78	.70	5-103735-2
3	B	.400 (10.16)	A32564-ND	.78	.71	5-104363-2
3	D	.400 (10.16)	A33925-ND	.67	.60	5-103639-2
4	A	.500 (12.70)	A33926-ND	.88	.80	5-103735-3
4	B	.500 (12.70)	A32565-ND	.87	.79	5-104363-3
4	D	.500 (12.70)	A33927-ND	.72	.65	5-103639-3
5	A	.600 (15.24)	A33928-ND	.98	.88	5-103735-4
5	B	.600 (15.24)	A33929-ND	.95	.86	5-104363-4
5	D	.600 (15.24)	A33930-ND	.81	.74	5-103639-4
6	A	.700 (17.78)	A33931-ND	1.07	.97	5-103735-5
6	B	.700 (17.78)	A33932-ND	1.02	.92	5-104363-5
6	D	.700 (17.78)	A33933-ND	.88	.79	5-103639-5
7	A	.800 (20.32)	A33934-ND	1.06	.96	5-103735-6
7	B	.800 (20.32)	A33935-ND	1.12	1.01	5-104363-6
7	D	.800 (20.32)	A33936-ND	.91	.82	5-103639-6
8	B	.900 (22.86)	A33938-ND	1.20	1.08	5-104363-7
8	D	.900 (22.86)	A33939-ND	.96	.87	5-103639-7
9	A	1.000 (25.40)	A33940-ND	1.47	1.33	5-103735-8
9	B	1.000 (25.40)	A33941-ND	2.36	2.13	5-104363-8
9	D	1.000 (25.40)	A33942-ND	1.02	.93	5-103639-8
10	A	1.100 (27.94)	A33943-ND	1.68	1.52	5-103735-9
10	B	1.100 (27.94)	A33944-ND	1.37	1.24	5-104363-9
10	D	1.100 (27.94)	A33945-ND	1.09	.98	5-103639-9
11	A	1.200 (30.48)	A33946-ND	1.89	1.71	6-103735-0
11	B	1.200 (30.48)	A33947-ND	1.46	1.32	6-104363-0
11	D	1.200 (30.48)	A33948-ND	1.21	1.09	6-103639-0
12	A	1.300 (33.02)	A33949-ND	1.60	1.45	6-103735-1
12	B	1.300 (33.02)	A33950-ND	1.54	1.39	6-104363-1
12	C	1.300 (33.02)	A35015-ND	1.32	1.19	6-103639-1
14	A	1.500 (38.10)	A32561-ND	1.97	1.78	6-103735-3
14	B	1.500 (38.10)	A33951-ND	1.82	1.64	6-104910-3
14	D	1.500 (38.10)	A33952-ND	1.38	1.25	6-103639-3
15	B	1.600 (40.64)	A33953-ND	1.90	1.71	6-104910-4
15	D	1.600 (40.64)	A33954-ND	1.44	1.30	6-103639-4
16	B	1.700 (43.18)	A33955-ND	1.73	1.56	6-104910-5
16	D	1.700 (43.18)	A33956-ND	1.51	1.36	6-103639-5
20	A	2.100 (53.34)	A33958-ND	2.48	2.24	6-103735-9
20	B	2.100 (53.34)	A33959-ND	2.26	2.04	6-104910-9
20	D	2.100 (53.34)	A33960-ND	1.99	1.79	6-103639-9

Polarized - High Temperature

Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Swage Retention Tail

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A28675-ND	.98	.89	104361-1
3	B	.400 (10.16)	A28676-ND	.72	.66	104361-2
4	B	.500 (12.70)	A28677-ND	1.00	.90	104361-3
5	B	.600 (15.24)	A28678-ND	1.09	.98	104361-4
6	B	.700 (17.78)	A28679-ND	1.19	1.07	104361-5
7	B	.800 (20.32)	A28680-ND	1.70	1.54	104361-6
8	B	.900 (22.86)	A28681-ND	1.37	1.24	104361-7
9	B	1.000 (25.40)	A28682-ND	1.47	1.33	104361-8
10	B	1.100 (27.94)	A28683-ND	1.57	1.42	104361-9

Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Swage Retention Tail — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A33961-ND	.83	.75	5-104361-1
3	B	.400 (10.16)	A33962-ND	1.10	.99	5-104361-2
4	B	.500 (12.70)	A33963-ND	.75	.68	5-104361-3
5	B	.600 (15.24)	A33964-ND	1.02	.92	5-104361-4
6	B	.700 (17.78)	A33965-ND	1.11	1.00	5-104361-5
7	B	.800 (20.32)	A33966-ND	1.60	1.44	5-104361-6
8	B	.900 (22.86)	A33967-ND	1.28	1.16	5-104361-7
9	B	1.000 (25.40)	A33968-ND	1.37	1.24	5-104361-8
10	B	1.100 (27.94)	A33969-ND	1.47	1.33	5-104361-9
12	B	1.300 (33.02)	A33970-ND	2.29	2.07	6-104361-1

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
3	B	.400 (10.16)	A28666-ND	.87	.78	104362-2
4	B	.500 (12.70)	A28667-ND	.96	.87	104362-3
6	B	.700 (17.78)	A28669-ND	1.14	1.03	104362-5
12	B	1.300 (33.02)	A28674-ND	1.15	1.04	1-104362-1

Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail — RoHS Compliant

No. of Pos.	Plating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A32567-ND	.73	.67	5-104362-1
5	B	.600 (15.24)	A33971-ND	1.88	1.70	5-104362-4
7	B	.800 (20.32)	A33972-ND	1.17	1.06	5-104362-6
8	B	.900 (22.86)	A33973-ND	1.25	1.13	5-104362-7

Tyco Electronics
Authorized Distributor

AMPMODU Mod. II and IV Receptacle Assemblies

Fig. 1

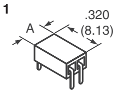

Fig. 2

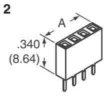

Fig. 3

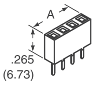

Fig. 4

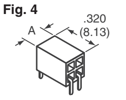

Fig. 5

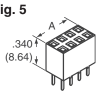

Fig. 6

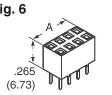

Fig. 7

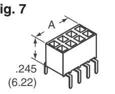

A

PERFORMANCE SPECIFICATIONS: • Durability: 200 cycles • Operating Temperature: -65°C ~ 105°C (-65°C ~ 125°C for horizontal mount) • Current Rating: 3 amp maximum for single contact (2 amp maximum per contact when connector is fully energized) • Insulation Resistance: 5000MΩ minimum between adjacent contacts

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated (horizontal mount – high temperature compatible) • Contacts: Phosphor bronze

Contact/Post Plating:

A: 30μ gold on contact area, 50μ to 100μ bright tin-lead on solder area, with entire contact under-plated 50μ nickel
B: 30μ gold on contact area, 100μ to 200μ bright tin-lead on solder area, with entire contact under-plated 50μ nickel

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs						
2	A	.200 (5.08)	A26405-ND	.42	.39	535676-1
3	A	.300 (7.62)	A26406-ND	.74	.68	535676-2
5	A	.500 (12.70)	A26408-ND	1.09	.99	535676-4
6	A	.600 (15.24)	A26409-ND	.87	.80	535676-5
8	A	.800 (20.32)	A26410-ND	1.59	1.44	535676-7
10	A	1.000 (25.40)	A26411-ND	1.88	1.71	535676-9
12	A	1.200 (30.48)	A26412-ND	1.56	1.42	1-535676-1
14	A	1.400 (35.56)	A26413-ND	2.49	2.26	1-535676-3
16	A	1.600 (40.64)	A26414-ND	2.01	1.83	1-535676-5
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs — RoHS Compliant						
4	A	.400 (10.16)	A35045-ND	1.01	.92	5535676-3
6	A	.600 (15.24)	A35046-ND	1.33	1.20	5535676-5
8	A	.800 (20.32)	A35047-ND	1.62	1.47	5535676-7
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts						
3	A	.300 (7.62)	A26415-ND	.64	.58	534237-1
4	A	.400 (10.16)	A26416-ND	.69	.63	534237-2
5	A	.500 (12.70)	A26417-ND	.74	.68	534237-3
6	A	.600 (15.24)	A26418-ND	.80	.72	534237-4
7	A	.700 (17.78)	A26419-ND	.85	.77	534237-5
8	A	.800 (20.32)	A26420-ND	.95	.87	534237-6
10	A	1.000 (25.40)	A26421-ND	1.14	1.04	534237-8
12	A	1.200 (30.48)	A26422-ND	1.25	1.13	1-534237-0
13	A	1.300 (33.02)	A26423-ND	1.30	1.18	1-534237-1
14	A	1.400 (35.56)	A26424-ND	1.38	1.25	1-534237-2
15	A	1.500 (38.10)	A26425-ND	1.46	1.32	1-534237-3
16	A	1.600 (40.64)	A26426-ND	1.67	1.52	1-534237-4
20	A	2.000 (50.80)	A26428-ND	2.33	2.12	1-534237-8
30	A	3.000 (76.20)	A26429-ND	2.49	2.26	2-534237-8
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts — RoHS Compliant						
3	A	.300 (7.62)	A32904-ND	.66	.60	5-534237-1
4	A	.400 (10.16)	A32905-ND	.72	.65	5-534237-2
5	A	.500 (12.70)	A32906-ND	.80	.72	5-534237-3
6	A	.600 (15.24)	A32907-ND	.85	.77	5-534237-4
7	A	.700 (17.78)	A32908-ND	1.25	1.13	5-534237-5
8	A	.800 (20.32)	A32909-ND	1.33	1.20	5-534237-6
10	A	1.000 (25.40)	A32910-ND	1.22	1.11	5-534237-8
12	A	1.200 (30.48)	A32911-ND	1.35	1.23	6-534237-0
13	A	1.300 (33.02)	A32912-ND	1.40	1.28	6-534237-1
14	A	1.400 (35.56)	A32913-ND	1.48	1.35	6-534237-2
15	A	1.500 (38.10)	A32914-ND	1.59	1.44	6-534237-3
16	A	1.600 (40.64)	A32549-ND	2.17	1.97	6-534237-4
18	A	1.800 (45.72)	A32915-ND	1.80	1.64	6-534237-6
20	A	2.000 (50.80)	A32916-ND	2.52	2.28	6-534237-8
30	A	3.000 (76.20)	A32917-ND	2.68	2.43	7-534237-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts						
3	A	.300 (7.62)	A26473-ND	.61	.56	535541-1
5	A	.500 (12.70)	A26475-ND	.77	.70	535541-3
6	A	.600 (15.24)	A26476-ND	.85	.77	535541-4
8	A	.800 (20.32)	A26477-ND	.85	.77	535541-6
10	A	1.000 (24.40)	A26478-ND	1.17	1.06	535541-8
12	A	1.200 (30.48)	A26479-ND	1.35	1.23	1-535541-0
14	A	1.400 (35.56)	A26480-ND	1.83	1.66	1-535541-2
16	A	1.600 (40.64)	A26481-ND	1.62	1.47	1-535541-4
20	A	2.000 (50.80)	A26483-ND	1.96	1.78	1-535541-8
30	A	3.000 (76.20)	A26484-ND	2.46	2.24	2-535541-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts — RoHS Compliant						
3	A	.300 (7.62)	A32918-ND	.66	.60	5-535541-1
5	A	.500 (12.70)	A32919-ND	.82	.75	5-535541-3
6	A	.600 (15.24)	A32920-ND	1.17	1.06	5-535541-4
8	A	.800 (20.32)	A32921-ND	1.06	.96	5-535541-6
10	A	1.000 (24.40)	A32922-ND	1.25	1.13	5-535541-8
12	A	1.200 (30.48)	A32923-ND	1.33	1.20	6-535541-0
14	A	1.400 (35.56)	A32550-ND	1.99	1.80	6-535541-2
16	A	1.600 (40.64)	A32924-ND	2.28	2.07	6-535541-4
18	A	1.800 (45.72)	A32925-ND	1.75	1.59	6-535541-6
20	A	2.000 (50.80)	A32926-ND	2.12	1.92	6-535541-8
30	A	3.000 (76.20)	A32927-ND	2.65	2.40	7-535541-8
Double Row						
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs						
4	A	.200 (5.08)	A26430-ND	.66	.60	6-535512-1
6	A	.300 (7.62)	A26431-ND	.93	.84	6-535512-2
8	A	.400 (10.16)	A26432-ND	1.43	1.30	6-535512-3
12	A	.600 (15.24)	A26434-ND	1.99	1.80	535512-1
16	A	.800 (20.32)	A26436-ND	2.54	2.31	1-535512-8
22	A	1.100 (27.94)	A26439-ND	2.89	2.62	1-535512-9
24	A	1.200 (30.48)	A26440-ND	3.74	3.39	535512-3
26	A	1.300 (33.02)	A26441-ND	3.37	3.05	2-535512-0
28	A	1.400 (35.56)	A26442-ND	3.58	3.24	2-535512-1
32	A	1.600 (40.64)	A26444-ND	4.13	3.75	2-535512-3
34	A	1.700 (43.18)	A26445-ND	5.19	4.71	535512-4
50	A	2.500 (63.50)	A26448-ND	6.28	5.69	535512-7
60	A	3.000 (76.20)	A26449-ND	7.50	6.80	3-535512-0
70	A	3.500 (88.90)	A26450-ND	8.72	7.90	1-535512-0
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs — RoHS Compliant						
6	A	.300 (7.62)	A35048-ND	1.03	.94	6-5535512-2
8	A	.400 (10.16)	A35049-ND	1.48	1.35	6-5535512-3
10	A	.500 (12.70)	A35050-ND	1.35	1.23	6-5535512-4
12	A	.600 (15.24)	A32928-ND	1.78	1.61	5535512-1
14	A	.700 (17.78)	A35044-ND	2.49	2.26	1-5535512-7
16	A	.800 (20.32)	A97410-ND	2.76	2.50	1-5535512-8
20	A	1.000 (25.40)	A32929-ND	3.05	2.76	5535512-2
24	A	1.200 (30.48)	A32930-ND	3.29	2.98	5535512-3
26	A	1.300 (33.02)	A34591-ND	4.40	3.99	2-5535512-0
32	A	1.600 (40.64)	A32931-ND	4.21	3.82	2-5535512-3
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
2	B	.100 (2.54)	A26451-ND	.74	.68	534206-1
4	B	.200 (5.08)	A26452-ND	.69	.63	534206-2
6	B	.300 (7.62)	A26453-ND	1.06	.96	534206-3
8	B	.400 (10.16)	A26454-ND	1.30	1.18	534206-4
10	B	.500 (12.70)	A26455-ND	1.51	1.37	534206-5
12	B	.600 (15.24)	A26456-ND	1.30	1.18	534206-6
14	B	.700 (17.78)	A26457-ND	1.46	1.32	534206-7
16	B	.800 (20.32)	A26458-ND	2.12	1.92	534206-8
18	B	.900 (22.86)	A26459-ND	1.78	1.61	534206-9
20	B	1.000 (25.40)	A26460-ND	1.93	1.76	1-534206-0
24	B	1.200 (30.48)	A26461-ND	3.84	3.48	1-534206-2
26	B	1.300 (33.02)	A26462-ND	3.10	2.81	1-534206-3
28	B	1.400 (35.56)	A26463-ND	2.54	2.31	1-5342 06-4
30	B	1.500 (38.10)	A26464-ND	3.23	2.93	1-534206-5
32	B	1.600 (40.64)	A26465-ND	2.86	2.60	1-534206-6
34	B	1.700 (43.18)	A26466-ND	2.99	2.72	1-534206-7
36	B	1.800 (45.72)	A26467-ND	3.13	2.84	1-534206-8
40	B	2.000 (50.80)	A26468-ND	3.47	3.15	2-534206-0
44	B	2.200 (55.88)	A26469-ND	3.76	3.41	2-534206-2
50	B	2.500 (63.50)	A26470-ND	5.43	4.92	2-534206-5
60	B	3.000 (76.20)	A26471-ND	4.98	4.52	3-534206-0
64	B	3.200 (81.28)	A26472-ND	5.30	4.80	3-534206-2
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern — RoHS Compliant						
2	B	.100 (2.54)	A32932-ND	.58	.53	5-534206-1
4	B	.200 (5.08)	A32933-ND	.77	.70	5-534206-2
6	B	.300 (7.62)	A32934-ND	.90	.82	5-534206-3
8	B	.400 (10.16)	A32935-ND	1.09	.99	5-534206-4
10	B	.500 (12.70)	A32936-ND	1.80	1.64	5-534206-5
12	B	.600 (15.24)	A32937-ND	1.64	1.49	5-534206-6
14	B	.700 (17.78)	A32938-ND	2.01	1.83	5-534206-7
16	B	.800 (20.32)	A32939-ND	2.28	2.07	5-534206-8
18	B	.900 (22.86)	A32940-ND	1.88	1.71	5-534206-9
20	B	1.000 (25.40)	A32941-ND	2.65	2.40	6-534206-0
24	B	1.200 (30.48)	A32942-ND	3.45	3.12	6-534206-2
26	B	1.300 (33.02)	A32943-ND	3.37	3.05	6-534206-3
28	B	1.400 (35.56)	A32944-ND	2.73	2.48	6-534206-4
30	B	1.500 (38.10)	A32945-ND	3.55	3.22	6-534206-5
32	B	1.600 (40.64)	A32946-ND	3.07	2.79	6-534206-6
34	B	1.700 (43.18)	A32947-ND	4.11	3.72	6-534206-7
36	B	1.800 (45.72)	A32948-ND	3.39	3.08	6-534206-8
40	B	2.000 (50.80)	A32949-ND	3.74	3.39	7-534206-0
44	B	2.200 (55.88)	A32950-ND	4.08	3.70	7-534206-2
50	B	2.500 (63.50)	A32951-ND	5.17	4.68	7-534206-5
60	B	3.000 (76.20)	A32952-ND	7.00	6.34	8-534206-0
64	B	3.200 (81.28)	A32953-ND	5.54	5.02	8-534206-2
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
8	B	.400 (10.16)	A26485-ND	1.17	1.06	534998-4
10	B	.500 (12.70)	A26486-ND	1.14	1.04	534998-5
12	B	.600 (15.24)	A26487-ND	1.25	1.13	534998-6
14	B	.700 (17.78)	A26488-ND	1.83	1.66	534998-7
16	B	.800 (20.32)	A26489-ND	2.25	2.04	534998-8
20	B	1.000 (25.40)	A26490-ND	2.44	2.21	1-534998-0
24	B	1.200 (30.48)	A26491-ND	2.15	1.95	1-534998-2
26	B	1.300 (33.02)	A26492-ND	2.33	2.12	1-534998-3
28	B	1.400 (35.56)	A26493-ND	2.46	2.24	1-534998-4
30	B	1.500 (38.10)	A26494-ND	2.62	2.38	1-534998-5
32	B	1.600 (40.64)	A26495-ND	2.81	2.55	1-534998-6
34	B	1.700 (43.18)	A26496-ND	2.94	2.67	1-534998-7
36	B	1.800 (45.72)	A26497-ND	3.07	2.79	1-534998-8
40	B	2.000 (50.80)	A26498-ND	4.45	4.04	2-534998-0
50	B	2.500 (63.50)	A26499-ND	4.16	3.77	2-534998-5
60	B	3.000 (76.20)	A26500-ND	6.41	5.81	3-534998-0
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern — RoHS Compliant						
8	B	.400 (10.16)	A32954-ND	1.27	1.16	5-534998-4
10	B	.500 (12.70)	A32955-ND	1.59	1.44	5-534998-5
12	B	.600 (15.24)	A32956-ND	1.38	1.25	5-534998-6
14	B	.700 (17.78)	A32957-ND	1.96	1.78	5-534998-7
16	B	.800 (20.32)	A32958-ND	2.01	1.83	5-534998-8
20	B	1.000 (25.40)	A32959-ND	2.65	2.40	6-534998-0
24	B	1.200 (30.48)	A32960-ND	2.33	2.12	6-534998-2
26	B	1.300 (33.02)	A32961-ND	3.26	2.96	6-534998-3
28	B	1.400 (35.56)	A32962-ND	2.65	2.40	6-534998-4
30	B	1.500 (38.10)	A32963-ND	3.71	3.36	6-534998-5
34	B	1.700 (43.18)	A32965-ND	3.18	2.88	6-534998-7
36	B	1.800 (45.72)	A32966-ND	3.31	3.00	6-534998-8
40	B	2.000 (50.80)	A32967-ND	4.80	4.35	7-534998-0
50	B	2.500 (63.50)	A32968-ND	5.86	5.31	7-534998-5
60	B	3.000 (76.20)	A32969-ND	6.92	6.27	8-534998-0
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern						
14	B	.700 (17.78)	A26501-ND	1.51	1.37	534267-1
20	B	1.000 (25.40)	A26502-ND	1.99	1.80	534267-2
30	B	1.500 (38.10)	A26503-ND	2.73	2.48	1-534267-2
36	B	1.800 (45.72)	A26504-ND	3.18	2.88	1-534267-5
40	B	2.000 (50.80)	A26505-ND	4.58	4.16	534267-7
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern — RoHS Compliant						
14	B	.700 (17.78)	A32970-ND	1.62	1.47	5-534267-1
20	B	1.000 (25.40)	A32971-ND	2.15	1.95	5-534267-2
30	B	1.500 (38.10)	A32972-ND	2.94	2.67	6-534267-2
36	B	1.800 (45.72)	A32973-ND	3.47	3.15	6-534267-5
40	B	2.000 (50.80)	A32974-ND	3.82	3.46	5-534267-7
60	B	3.000 (76.20)	A32976-ND	5.41	4.90	5-534267-8

RITS Series

Specifications: • **Voltage Rating:** 32VDC • **Current Rating:** 0.5A ~ 3A • **Temperature Rating:** -30°C ~ 75°C

Digi-Reel®

Fig. 1

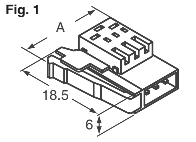

Fig. 2

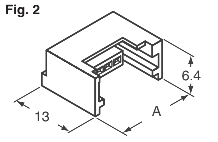

Fig. 3

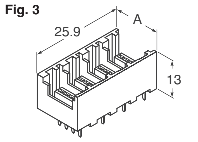

Fig. 4

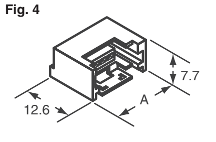

Fig. 5

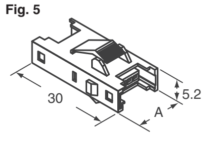

Fig. 6

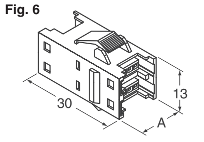

Fig.	No. of Pos.	Dim. A mm	Body Color	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Tyco Electronics Part No.
Plug, IDC (Insulation Displacement Contact) — RoHS Compliant									
1	3	14.1	Yellow	A29146-ND	1.68	1.36	—	—	1473562-3
	3	14.1	Blue	A29148-ND	1.55	1.26	—	—	2-1473562-3
	3	14.1	Green	A29158-ND	1.81	1.47	—	—	4-1473562-3
	4	16.1	Yellow	A29149-ND	2.04	1.65	—	—	1473562-4
	4	16.1	Blue	A29151-ND	2.04	1.65	—	—	2-1473562-4
	4	16.1	Green	A29159-ND	2.16	1.76	—	—	4-1473562-4
	4	16.1	Orange	A29163-ND	2.16	1.76	—	—	3-1473562-4
	4	16.1	Red	A29150-ND	2.04	1.65	—	—	1-1473562-4
	6	20.1	Green	A29160-ND	2.25	1.82	—	—	4-1473562-6
	8	24.1	Yellow	A29155-ND	2.58	2.10	—	—	1473562-8
Header Vertical Thru Hole									
2	3	13.8	—	A29166-ND◆	1.71	1.23	—	—	1473565-3
	4	15.8	—	A29167-ND◆	2.40	1.72	—	—	1473565-4
	5	19.8	—	A29168-ND	2.61	1.88	—	—	1473565-5
	8	23.8	—	A29171-ND◆	2.64	1.90	—	—	1473565-8

Fig.	No. of Pos.	Dim. A mm	Body Color	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Tyco Electronics Part No.
Header Vertical 4Row — RoHS Compliant									
3	3	13.8	—	A29173-ND	3.75	2.69	—	—	1473567-3
	4	15.8	—	A29172-ND	5.10	3.66	—	—	1473567-4
Header Horizontal SMT (Surface Mount) — RoHS Compliant									
4	3	13.8	—	A29174CT-ND†	5.71	3.43	250	692.75	1565994-3
	3	13.8	—	A29176CT-ND†	5.71	3.43	250	692.75	1-1565994-3
	4	15.8	—	A29175CT-ND†	6.58	3.95	200	639.20	1565994-4
	4	15.8	—	A29177CT-ND†	6.58	3.95	200	639.20	1-1565994-4
Junction Box Panel Mount — RoHS Compliant									
5	3	13.8	—	A29178-ND	6.39	4.10	—	—	1473571-3
	4	15.8	—	A29179-ND	2.81	1.81	—	—	1473571-4
	8	23.8	—	A29181-ND	4.43	2.84	—	—	1473571-8
Junction Box Free Hanging — RoHS Compliant									
5	3	13.8	—	A29182-ND	2.17	1.40	—	—	5-1473571-3
	4	15.8	—	A29183-ND	6.60	4.24	—	—	5-1473571-4
6	3	13.8	—	A29188-ND	7.05	4.53	—	—	5-1473574-3
	4	15.8	—	A29189-ND	7.39	4.75	—	—	5-1473574-4

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Dynamic Series D-2000

Specifications: • **Material:** Black GF Polyester • **Flammability:** UL 94V-0 • **Voltage Rating:** 250VAC • **Current Rating:** 5A • **Temperature Rating:** -55°C ~ 105°C

Fig. 1

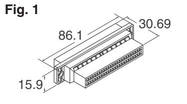

Fig. 2

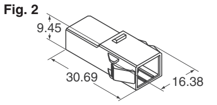

Fig. 3

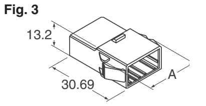

Fig. 4

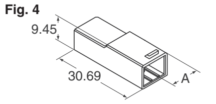

Fig. 5

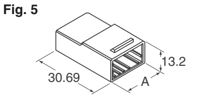

Fig. 6

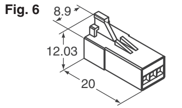

Fig. 7

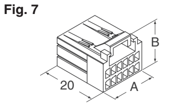

Fig. 8

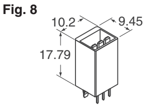

Fig. 9

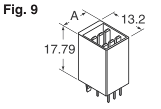

Fig. 10

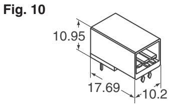

Fig. 11

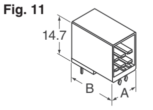

Fig. 12 ***NEW!***

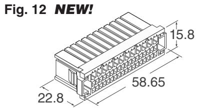

Fig. 13 ***NEW!***

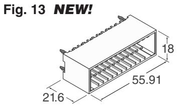

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
D2100 — RoHS Compliant						
1	50	Tab Housing Panel Mount	A29817-ND	5.06	3.25	1318578-2

Fig.	No. of Pos.	Dim. – mm A	Dim. – mm B	Keying	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
D2100 Tab Housing Panel Mount — RoHS Compliant									
2	3	—	—	X	—	A29793-ND	.76	.49	1-1318116-3
	3	—	—	Y	—	A29794-ND	.76	.49	2-1318116-3
3	6	16.38	—	X	—	A29777-ND	.59	.38	1-1318114-3
	6	16.38	—	Y	—	A29778-ND	.84	.55	2-1318114-3
	8	18.88	—	X	—	A29779-ND	.89	.58	1-1318114-4
	8	18.88	—	Y	—	A29780-ND	.82	.53	2-1318114-4
	12	23.88	—	X	—	A29781-ND	.71	.46	1-1318114-6
	12	23.88	—	Y	—	A29782-ND	1.01	.65	2-1318114-6
	20	33.88	—	X	—	A29783-ND	1.16	.75	1-1318114-9
	20	33.88	—	Y	—	A29784-ND	1.67	1.08	2-1318114-9
D2100 Tab Housing Free Hanging — RoHS Compliant									
4	3	10.2	—	X	—	A29795-ND	.71	.46	1-1318117-3
	3	10.2	—	Y	—	A29796-ND	.66	.43	2-1318117-3
5	6	10.2	—	X	—	A29785-ND	.40	.26	1-1318115-3
	6	10.2	—	Y	—	A29786-ND	.80	.51	2-1318115-3
	8	12.7	—	X	—	A29787-ND	.51	.33	1-1318115-4
	8	12.7	—	Y	—	A29788-ND	.84	.55	2-1318115-4
	12	17.7	—	X	—	A29789-ND	.58	.37	1-1318115-6
	12	17.7	—	Y	—	A29790-ND	.88	.57	2-1318115-6
	20	27.7	—	X	—	A29791-ND	.95	.62	1-1318115-9
	20	27.7	—	Y	—	A29792-ND	1.59	1.02	2-1318115-9
D2100 Receptacle Housing — RoHS Compliant									
6	3	—	—	X	—	A29805-ND	.56	.36	1-1318120-3
	3	—	—	Y	—	A29806-ND	.52	.34	2-1318120-3
7	6	8.9	15.8	X	—	A29801-ND	.31	.21	1-1318119-3
	6	8.9	15.8	Y	—	A29802-ND ***NEW!***	.63	.41	2-1318119-3
	8	11.4	15.8	X	—	A29803-ND	.42	.27	1-1318119-4
	8	11.4	15.8	Y	—	A29804-ND	.70	.45	2-1318119-4
	12	16.4	14.8	X	—	A29797-ND	.48	.31	1-1318118-6
	12	16.4	14.8	Y	—	A29798-ND	.48	.31	2-1318118-6
	20	26.4	14.8	X	—	A29799-ND	.56	.36	1-1318118-9
	20	26.4	14.8	Y	—	A29800-ND	1.28	.83	2-1318118-9
D2100 Header Straight — RoHS Compliant									
8	3	—	—	X	15µ" Gold	A29807-ND	.96	.69	1318123-1

Fig.	No. of Pos.	Dim. – mm A	Dim. – mm B	Keying	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
9	6	10.2	—	Y	15µ" Gold	A100337-ND ***NEW!***	1.57	1.13	1318124-2
	6	10.2	—	X	15µ" Gold	A29808-ND	1.88	1.35	1318124-1
	8	12.7	—	X	15µ" Gold	A29809-ND	1.52	1.09	1318125-1
	8	12.7	—	Y	15µ" Gold	A29810-ND	1.52	1.09	1318125-2
	12	17.7	—	X	15µ" Gold	A29811-ND	2.31	1.66	1318126-1
	12	17.7	—	Y	15µ" Gold	A29812-ND	2.31	1.66	1318126-2
	20	27.7	—	X	15µ" Gold	A29813-ND	3.48	2.50	1318127-1
	20	27.7	—	Y	15µ" Gold	A29814-ND	3.48	2.50	1318127-2
D2100 Header Right Angle									
10	3	—	—	X	15µ" Gold	A29855-ND◆	1.65	1.19	1376135-1
	3	—	—	Y	15µ" Gold	A29863-ND◆	1.65	1.19	1376135-2
11	6	10.2	20.19	X	15µ" Gold	A29856-ND◆	2.52	1.81	1376136-1
	6	10.2	20.19	Y	15µ" Gold	A29857-ND◆	2.52	1.81	1376136-2
	8	12.7	20.19	X	15µ" Gold	A29822-ND◆	2.49	1.79	1376009-1
	12	17.7	20.19	X	15µ" Gold	A29824-ND◆	4.38	3.14	1376020-1
	12	17.7	20.19	Y	15µ" Gold	A29825-ND◆	4.38	3.14	1376020-2
	20	27.7	20.19	X	15µ" Gold	A29858-ND	3.57	2.56	1376137-1

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel Qty.	Tape and Reel Pricing	Tyco Electronics Part No.
2000 Series Receptacle Contacts — RoHS Compliant							
18 ~ 22	15µ" Gold	A29318-ND	.24	.16	—	—	1318107-1
18 ~ 22	15µ" Gold	A29318TR-ND	—	—	10,000	62.37/M	1318105-1
24 ~ 28	15µ" Gold	A29319-ND	.24	.16	—	—	1318108-1
2000 Series Tab Contacts — RoHS Compliant							
18 ~ 22	15µ" Gold	A29322-ND	.13	.09	—	—	1318111-1
18 ~ 22	15µ" Gold	A29322TR-ND	—	—	9,000	114.75/M	1318109-1
24 ~ 28	15µ" Gold	A29323-ND	.13	.09	—	—	1318112-1

Description	Digi-Key Part No.	Price Each	Tyco Electronics Part No.
D2000 Crimp Tool, 18-22 AWG	A30051-ND	603.45	91595-1
D2000 Extraction Tool	A97909-ND	65.93	1276716-1

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
NEW! D2600 Series — RoHS Compliant NEW!						
12	48	Receptacle Hybrid, Free Hanging	A32607-ND	1.72	1.11	1827540-1
13	48	Vertical Header	A100336-ND	5.55	3.98	1827538-1

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Dynamic Series D-3000

Specifications: • Material: Black GF Polyester (Orange in part) **• Flammability:** UL 94V-0 **• Voltage Rating:** 250V AC/DC (for 3.81mm pitch connector), 600V AC/DC (for 5.08mm pitch connector) **• Temperature Rating:** -55°C ~ 105°C

Fig. 1

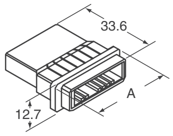

Fig. 2

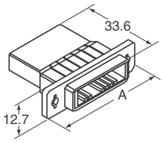

Fig. 3

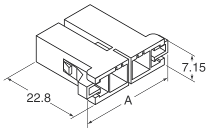

Fig. 4

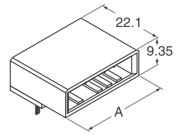

Fig. 5

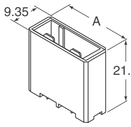

Fig. 6

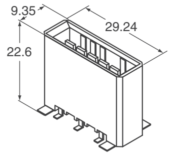

Fig. 7

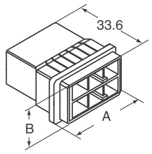

Fig. 8

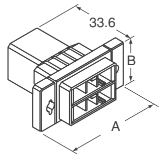

Fig. 9

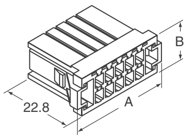

Fig. 10

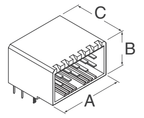

Fig. 11

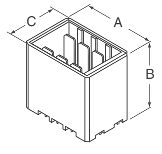

Fig. 12

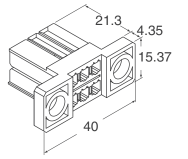

Fig. 13

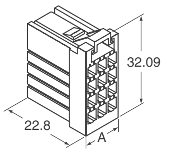

Fig. 14

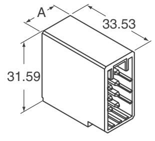

Fig. 15

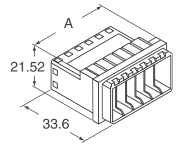

Fig. 16

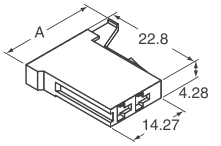

Fig. 17

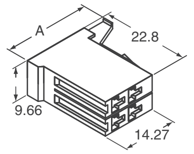

Fig. 18

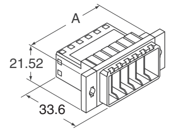

Fig.	No. of Pos.	Dimensions – mm A	B	C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	Tyco Electronics Part No.
D3100 Tab Housing Single Keyed — RoHS Compliant										
1	3	21.62	—	—	X	—	A29848-ND	.73	.47	1-177648-3
	3	21.62	—	—	Y	—	A29849-ND	2.30	1.48	2-177648-3
	5	29.24	—	—	X	—	A29850-ND	.69	.45	1-177648-5
	8	40.67	—	—	X	—	A29851-ND	.92	.60	1-177648-7
	10	48.29	—	—	X	—	A29852-ND	1.03	.67	1-177648-8
D3100 Tab Housing Single Row Panel Mount Keyed — RoHS Compliant										
2	3	40.00	—	—	X	—	A29527-ND	.81	.52	1-178802-3
	3	40.00	—	—	Y	—	A29528-ND	1.15	.74	2-178802-3
	5	47.00	—	—	X	—	A29529-ND	.95	.62	1-178802-5
	8	59.00	—	—	X	—	A29530-ND	.86	.56	1-178802-7
	10	67.00	—	—	X	—	A29531-ND	1.47	.95	1-178802-8
	10	67.00	—	—	Y	—	A29532-ND	2.73	1.76	2-178802-8
D3100 Receptacle Housing Single Row Keyed — RoHS Compliant										
3	3	26.76	—	—	X	—	A29421-ND	.51	.33	1-178288-3
	3	26.76	—	—	Y	—	A29422-ND	.55	.36	2-178288-3
	4	30.57	—	—	X	—	A29423-ND	.73	.48	1-178288-4
	4	30.57	—	—	Y	—	A29424-ND	.96	.62	2-178288-4
	5	34.38	—	—	X	—	A29425-ND	.76	.49	1-178288-5
	6	38.19	—	—	X	—	A29426-ND	.66	.43	1-178288-6
	6	38.19	—	—	Y	—	A29427-ND	.71	.46	2-178288-6
	8	45.81	—	—	X	—	A29428-ND	.69	.45	1-178288-7
	10	53.43	—	—	X	—	A29429-ND	1.06	.68	1-178288-8
D3100 Header Right Angle Single Row Keyed										
4	3	21.62	—	—	X	15µ" Gold	A29437-ND◆	1.64	1.18	1-178293-2
	3	21.62	—	—	X	30µ" Gold	A29439-ND◆	2.04	1.47	1-178293-3
	4	25.43	—	—	X	15µ" Gold	A29443-ND◆	1.70	1.22	1-178294-2
	4	25.43	—	—	X	30µ" Gold	A29445-ND◆	2.25	1.62	1-178294-3
	4	25.43	—	—	Y	30µ" Gold	A29446-ND◆	1.64	1.18	2-178294-3
	4	25.43	—	—	X	Tin	A29447-ND◆	.97	.70	1-178294-5
	5	29.24	—	—	X	15µ" Gold	A29449-ND◆	1.80	1.29	1-178295-2
	5	29.24	—	—	X	Tin	A29451-ND◆	1.64	1.18	1-178295-5
	6	33.05	—	—	X	15µ" Gold	A29452-ND◆	3.45	2.48	1-178296-2
	6	33.05	—	—	Y	15µ" Gold	A29453-ND	3.12	2.24	2-178296-2
	6	33.05	—	—	X	30µ" Gold	A29454-ND◆	3.81	2.74	1-178296-3
	8	40.67	—	—	X	15µ" Gold	A29458-ND◆	3.72	2.67	1-178297-2
	8	40.67	—	—	X	30µ" Gold	A29459-ND◆	3.87	2.78	1-178297-3
	8	40.67	—	—	X	Tin	A29460-ND◆	3.36	2.41	1-178297-5
	10	48.29	—	—	X	15µ" Gold	A29461-ND◆	3.24	2.33	1-178298-2
	10	48.29	—	—	X	30µ" Gold	A29462-ND◆	4.95	3.55	1-178298-3
	10	48.29	—	—	X	Tin	A29463-ND◆	2.64	1.90	1-178298-5
D3100 Header Straight Single Row Keyed										
5	3	21.62	—	—	X	15µ" Gold	A29482-ND◆	1.63	1.17	1-178313-2
	3	21.62	—	—	X	30µ" Gold	A29483-ND◆	1.79	1.28	1-178313-3
	3	21.62	—	—	X	Tin	A29484-ND◆	1.45	1.04	1-178313-5
	3	21.62	—	—	Y	Tin	A29487-ND◆	1.24	.89	2-178313-5
	4	25.43	—	—	X	15µ" Gold	A29488-ND◆	1.70	1.22	1-178314-2
	4	25.43	—	—	X	30µ" Gold	A29489-ND	1.76	1.26	1-178314-3
	4	25.43	—	—	X	Tin	A29490-ND	1.15	.83	1-178314-5
	4	25.43	—	—	Y	30µ" Gold	A29492-ND◆	2.85	2.05	2-178314-3
	4	25.43	—	—	Y	Tin	A29493-ND◆	2.34	1.68	2-178314-5
5	5	29.24	—	—	X	15µ" Gold	A29494-ND◆	1.55	1.12	1-178315-2
	6	33.05	—	—	X	Tin	A29499-ND◆	2.70	1.94	1-178316-5
	6	33.05	—	—	Y	15µ" Gold	A29500-ND◆	2.70	1.94	2-178316-2
	6	33.05	—	—	Y	30µ" Gold	A29501-ND◆	2.85	2.05	2-178316-3
	8	40.67	—	—	X	15µ" Gold	A29503-ND◆	2.10	1.51	1-178317-2
	10	48.29	—	—	X	30µ" Gold	A29507-ND	2.79	2.00	1-178318-3
D3100 Header Single Row Straight — RoHS Compliant										
6	5	—	—	—	—	15µ" Gold	A29352-ND	3.75	2.69	1-177665-2
D3100 Tab Housing Dual Row — RoHS Compliant										
7	6	25.57	17.78	—	—	—	A29538-ND	.91	.59	178964-3
	10	33.19	17.78	—	—	—	A29539-ND	1.08	.70	178964-5
	12	37.00	17.78	—	—	—	A29540-ND	.92	.59	178964-6
	16	44.62	17.78	—	—	—	A29541-ND	1.65	1.06	178964-7
	20	52.24	17.78	—	—	—	A29542-ND	1.56	1.01	178964-8
D3100 Tab Housing Dual Row Panel Mount — RoHS Compliant										
8	6	40.00	17.78	—	—	—	A29533-ND	1.14	.74	178803-3
	10	47.00	17.78	—	—	—	A29534-ND	1.30	.84	178803-5
	12	51.00	17.78	—	—	—	A29535-ND	1.15	.74	178803-6
	16	59.00	17.78	—	—	—	A29536-ND	1.65	1.06	178803-7
	20	67.00	17.78	—	—	—	A29537-ND	2.94	1.89	178803-8
D3100 Receptacle Housing Dual Row — RoHS Compliant										
9	6	24.36	12.23	—	—	—	A29431-ND	.65	.42	178289-3
	8	28.17	12.23	—	—	—	A29432-ND	1.72	1.11	178289-4
	10	31.98	12.23	—	—	—	A29433-ND	.95	.61	178289-5
	12	35.79	12.23	—	—	—	A29434-ND	.83	.54	178289-6
	16	42.71	12.23	—	—	—	A29435-ND	.91	.59	178289-7
	20	51.03	12.23	—	—	—	A29436-ND	1.56	1.01	178289-8
D3100 Header Right Angle Dual Row										
10	6	21.62	14.43	25.91	—	15µ" Gold	A29467-ND	3.81	2.74	178303-2
	6	21.62	14.43	25.91	—	30µ" Gold	A29468-ND◆	4.65	3.34	178303-3
	6	21.62	14.43	25.91	—	Tin	A29469-ND◆	4.26	3.06	178303-5
	10	29.24	14.43	25.91	—	30µ" Gold	A29471-ND◆	2.94	2.11	178305-3
	12	33.05	14.43	25.91	—	15µ" Gold	A29473-ND◆	2.94	2.11	178306-2
	16	40.67	14.43	25.91	—	15µ" Gold	A29476-ND◆	4.17	2.99	178307-2
	16	40.67	14.43	25.91	—	Tin	A29478-ND◆	2.67	1.92	178307-5
	20	48.29	14.43	25.91	—	30µ" Gold	A29480-ND◆	5.04	3.62	178308-3
D3100 Header Straight Dual Row										
11	6	21.62	21.6	14.43	—	30µ" Gold	A29513-ND◆	2.55	1.83	178323-3
	6	21.62	21.6	14.43	—	Tin	A29514-ND◆	1.74	1.25	178323-5
	10	29.24	21.6	14.43	—	15µ" Gold	A29515-ND◆	1.89	1.36	178325-2
	12	33.05	21.6	14.43	—	15µ" Gold	A29518-ND◆	1.83	1.32	178326-2
	16	40.67	21.6	14.43	—	30µ" Gold	A29522-ND	5.04	3.62	178327-3
	20	48.29	21.6	14.43	—	30µ" Gold	A29525-ND◆	5.28	3.79	178328-3
	20	48.29	21.6	14.43	—	Tin	A29526-ND◆	2.16	1.55	178328-5
D3100 Receptacle Housing Dual Row Keyed — RoHS Compliant										
9	6	24.76	14.77	22.8	XX	—	A29354-ND	1.06	.68	1-178127-6
	6	24.76	14.77	22.8	YY	—	A29355-ND	2.21	1.42	2-178127-6
	6	24.76	14.77	22.8	XY	—	A29356-ND	.75	.48	3-178127-6

◆ *RoHS Compliant*

(Continued)

Fig.	No. of Pos.	Dimensions – mm			Keying	Body Plating	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
		A	B	C				1	100	
D3100 Header Right Angle Dual Row Keyed — RoHS Compliant										
10	6	25.91	16.97	21.62	XX	15µ" Gold	A29376-ND	2.52	1.81	1-178137-2
	6	25.91	16.97	21.62	XX	30µ" Gold	A29377-ND	2.94	2.11	1-178137-3
	6	25.91	16.97	21.62	YY	15µ" Gold	A29379-ND	2.67	1.92	2-178137-2
D3100 Header Straight Dual Row Keyed										
11	6	21.62	21.6	16.97	XX	30µ" Gold	A29412-ND◆	2.76	1.98	1-178141-3
	6	21.62	21.6	16.97	XY	15µ" Gold	A29414-ND◆	2.19	1.57	3-178141-2
	6	21.62	21.6	16.97	XY	30µ" Gold	A29415-ND	2.76	1.98	3-178141-3
D3200 Tab Housing Free Hanging Keyed — RoHS Compliant										
1	2	19.08	—	—	X	—	A29557-ND	.76	.49	1-179552-2
	2	19.08	—	—	Y	—	A29558-ND	.68	.44	2-179552-2
	3	24.16	—	—	X	—	A29559-ND	1.03	.67	1-179552-3
	3	24.16	—	—	Y	—	A29560-ND	.52	.34	2-179552-3
	4	29.24	—	—	X	—	A29561-ND	1.26	.81	1-179552-4
	4	29.24	—	—	Y	—	A29562-ND	.73	.47	2-179552-4
7	6	28.11	20.32	—	XX	—	A29569-ND	1.14	.74	1-179554-3
	6	28.11	20.32	—	YY	—	A29570-ND	.87	.56	2-179554-3
	6	28.11	20.32	—	XY	—	A29571-ND	1.03	.67	3-179554-3
	12	43.35	20.32	—	XX	—	A29572-ND	1.03	.67	1-179554-6
	12	43.35	20.32	—	YY	—	A29573-ND	1.32	.85	2-179554-6
	12	43.35	20.32	—	XY	—	A29574-ND	1.74	1.12	3-179554-6
D3200 Panel Mount — RoHS Compliant										
12	6	—	—	—	—	—	A29686-ND	2.02	1.30	1-917266-3
D3200 Tab Housing Panel Mount Keyed — RoHS Compliant										
2	2	36.83	—	—	X	—	A29563-ND	.49	.32	1-179553-2
	2	36.83	—	—	Y	—	A29564-ND	.66	.43	2-179553-2
	3	41.91	—	—	X	—	A29565-ND	.54	.35	1-179553-3
	3	41.91	—	—	Y	—	A29566-ND	.56	.37	2-179553-3
	4	46.99	—	—	X	—	A29567-ND	.63	.41	1-179553-4
	4	46.99	—	—	Y	—	A29568-ND	.89	.58	2-179553-4
8	6	41.91	20.32	—	XX	—	A29575-ND	1.39	.90	1-179555-3
	6	41.91	20.32	—	YY	—	A29576-ND	1.91	1.23	2-179555-3
	6	41.91	20.32	—	XY	—	A29577-ND	.92	.59	3-179555-3
	12	57.91	20.32	—	XX	—	A29578-ND	1.83	1.18	1-179555-6
	12	57.91	20.32	—	YY	—	A29579-ND	1.53	.99	2-179555-6
	12	57.91	20.32	—	XY	—	A29580-ND	1.76	1.14	3-179555-6
	20	78.23	20.32	—	XX	—	A29581-ND	1.25	.81	1-179555-8
D3200 Receptacle Housing Keyed — RoHS Compliant										
3	2	24.62	—	—	X	—	A29357-ND	.61	.39	1-178128-2
	2	24.62	—	—	Y	—	A29358-ND	.55	.36	2-178128-2
	3	29.7	—	—	X	—	A29359-ND	.64	.41	1-178128-3
	3	29.7	—	—	Y	—	A29360-ND	.58	.38	2-178128-3
	4	34.78	—	—	X	—	A29361-ND	.58	.37	1-178128-4
	4	34.78	—	—	Y	—	A29362-ND	.81	.52	2-178128-4
	5	39.86	—	—	X	—	A29363-ND	.72	.47	1-178128-5
	5	39.86	—	—	Y	—	A29364-ND	1.81	1.17	2-178128-5
	6	44.94	—	—	X	—	A29365-ND	.73	.47	1-178128-6
	6	44.94	—	—	Y	—	A29366-ND	1.51	.97	2-178128-6
9	6	27.3	14.77	—	XX	—	A29367-ND	1.14	.74	1-178129-6
	6	27.3	14.77	—	YY	—	A29368-ND	.82	.53	2-178129-6
	6	27.3	14.77	—	XY	—	A29369-ND	.82	.53	3-178129-6
	10	37.46	14.77	—	XX	—	A29733-ND	2.06	1.33	1-917659-5
	10	37.46	14.77	—	YY	—	A29734-ND	3.34	2.15	2-917659-5
	10	37.46	14.77	—	XY	—	A29735-ND	3.37	2.16	3-917659-5
	12	42.54	14.77	—	XX	—	A29736-ND	1.98	1.27	1-917659-6
	12	42.54	14.77	—	YY	—	A29737-ND	2.94	1.89	2-917659-6
	12	42.54	14.77	—	XY	—	A29738-ND	1.81	1.16	3-917659-6
	20	62.86	14.77	—	XX	—	A29739-ND	4.35	2.79	1-917659-8
D3200 Header Straight Keyed										
5	2	19.08	—	—	X	30µ" Gold	A29688-ND◆	1.42	1.02	1-917337-3
	2	19.08	—	—	Y	30µ" Gold	A29691-ND◆	1.42	1.02	2-917337-3
	2	19.08	—	—	Y	Tin	A29692-ND◆	1.03	.75	2-917337-5
	3	24.16	—	—	Y	30µ" Gold	A29374-ND◆	2.25	1.62	2-178136-3
	4	29.24	—	—	X	15µ" Gold	A29693-ND	2.04	1.47	1-917338-2
	4	29.24	—	—	X	30µ" Gold	A29694-ND	2.37	1.70	1-917338-3
	4	29.24	—	—	X	Tin	A29695-ND◆	1.82	1.31	1-917338-5
	4	29.24	—	—	Y	30µ" Gold	A29697-ND◆	2.64	1.90	2-917338-3
	5	34.32	—	—	X	15µ" Gold	A29628-ND◆	1.17	.85	1-316132-2
	5	34.32	—	—	Y	30µ" Gold	A29632-ND◆	1.54	1.11	2-316132-3
	5	34.32	—	—	Y	Tin	A29633-ND◆	1.07	.77	2-316132-5
	6	39.4	—	—	X	15µ" Gold	A29634-ND◆	1.57	1.13	1-316133-2
	6	39.4	—	—	Y	15µ" Gold	A29637-ND◆	1.40	1.01	2-316133-2
11	6	24.16	21.6	16.97	XX	30µ" Gold	A29402-ND◆	2.85	2.05	1-178140-3
	6	24.16	21.6	16.97	YY	Tin	A29407-ND◆	1.98	1.43	2-178140-5
	10	34.32	21.6	16.97	XX	15µ" Gold	A29715-ND◆	1.86	1.34	1-917657-2
	10	34.32	21.6	16.97	XX	Tin	A29717-ND◆	1.60	1.15	1-917657-5
	12	39.4	21.6	16.97	XX	Tin	A29726-ND◆	1.55	1.12	1-917658-5
	12	39.4	21.6	16.97	YY	15µ" Gold	A29727-ND◆	5.91	4.24	2-917658-2
	12	39.4	21.6	16.97	YY	Tin	A29729-ND	1.55	1.12	2-917658-5
	12	39.4	21.6	16.97	XY	30µ" Gold	A29731-ND◆	3.06	2.20	3-917658-3
D3200 Header Right Angle Keyed — RoHS Compliant										
4	2	19.08	—	—	X	15µ" Gold	A29545-ND	2.46	1.77	1-179276-2
	2	19.08	—	—	Y	15µ" Gold	A29548-ND	3.72	2.67	2-179276-2
	2	19.08	—	—	Y	30µ" Gold	A29549-ND	3.90	2.80	2-179276-3
	3	24.16	—	—	X	30µ" Gold	A29386-ND	1.42	1.02	1-178138-3
	3	24.16	—	—	Y	30µ" Gold	A29389-ND	1.72	1.24	2-178138-3
	3	24.16	—	—	Y	Tin	A29390-ND	1.24	.89	2-178138-5
	4	29.24	—	—	X	15µ" Gold	A29551-ND	1.21	.87	1-179277-2
	4	29.24	—	—	X	Tin	A29553-ND	1.27	.92	1-179277-5
	4	29.24	—	—	Y	Tin	A29556-ND	1.17	.85	2-179277-5
	5	34.32	—	—	X	30µ" Gold	A29617-ND	2.13	1.53	1-316130-3
	5	34.32	—	—	X	Tin	A29618-ND	1.31	.94	1-316130-5
	5	34.32	—	—	Y	30µ" Gold	A29620-ND	2.01	1.45	2-316130-3
	6	39.4	—	—	Y	Tin	A29627-ND	1.77	1.27	2-316131-5
10	10	34.32	16.97	27.18	XX	30µ" Gold	A29599-ND	4.74	3.40	1-316080-3
	12	39.4	16.97	27.18	XX	Tin	A29609-ND	2.31	1.66	1-316081-5
	12	39.4	16.97	27.18	YY	15µ" Gold	A29610-ND	3.99	2.86	2-316081-2

Fig.	No. of Pos.	Dimensions – mm A	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
D3400 Receptacle Housing — RoHS Compliant							
13	12	12.22	—	A29417-ND	1.67	1.08	178214-1
	20	19.84	—	A29682-ND	3.15	2.03	917249-1
D3400 Header Right Angle							
14	12	15.02	15µ" Gold	A29418-ND	4.83	3.47	178216-2
	12	15.02	30µ" Gold	A29419-ND◆	5.19	3.72	178216-3

Fig.	No. of Pos.	Dimensions – mm			Body Plating	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
		A	B	C			1	100	
D3500 Tab Housing Free Hanging — RoHS Compliant									
15	12	36.43	—	—	—	A29678-ND	2.09	1.35	917242-6
	20	56.75	—	—	—	A29681-ND	1.65	1.06	3-917242-8
D3500 Receptacle Housing — RoHS Compliant									
16	2	21.0	—	—	—	A29334-ND	.23	.15	175362-1
	2	21.0	—	—	—	A29839-ND	.20	.13	175362-2
17	4	21.0	—	—	—	A29840-ND	.46	.30	175363-1
	4	17.2	—	—	—	A29841-ND	.35	.23	175363-2
D3500 Header Straight									
11	12	32.48	18.17	21.6	30µ" Gold	A29641-ND◆	4.20	3.01	316516-3
	20	52.8	18.17	21.6	Tin	A29645-ND	2.43	1.75	316517-5
D3500 Header Right Angle — RoHS Compliant									
10	4	27.18	18.17	12.16	15µ" Gold	A29854-ND	1.53	1.10	1376133-2
	20	52.8	18.17	27.18	Tin	A29844-ND	2.70	1.94	175365-5
D3500 Tab Housing Dual Row — RoHS Compliant									
18	12	52.00	—	—	—	A29674-ND	1.65	1.06	917241-6
	20	72.00	—	—	—	A29675-ND	1.74	1.12	917241-8
	20	72.00	—	—	—	A29677-ND	2.54	1.64	3-917241-8

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each		Tape and Reel		Tyco Electronics Part No.
			1	100	Qty.	Pricing	
D3000 Receptacle Contacts — RoHS Compliant							
14 ~ 16	15µ" Gold	A29285TR-ND	—	—	3,000	266.26/M	1-353715-2
14 ~ 16	15µ" Gold	A29283-ND	.26	.17	—	—	353717-2
14 ~ 16	15µ" Gold	A29299-ND	.54	.35	—	—	917511-2
14 ~ 16	15µ" Gold	A29301-ND	.40	.26	—	—	1-917511-2
14 ~ 16	30µ" Gold	A29286-ND	.30	.20	—	—	1-353717-3
14 ~ 16	30µ" Gold	A29300TR-ND	—	—	3,000	432.00/M	917484-3
14 ~ 16	30µ" Gold	A29302TR-ND	—	—	3,000	256.50/M	1-917484-3
14 ~ 16	30µ" Gold	A29302-ND	.44	.29	—	—	1-917511-3
14 ~ 16	Tin	A29287-ND	.14	.09	—	—	1-353717-5
14 ~ 16	Tin	A29303TR-ND	—	—	3,000	161.52/M	1-917484-5
14 ~ 16	Tin	A29303-ND	.45	.29	—	—	1-917511-5
16 ~ 20	15µ" Gold	A29225-ND	.41	.27	—	—	175218-2
16 ~ 20	15µ" Gold	A29227-ND	.38	.25	—	—	1-175218-2
16 ~ 20	30µ" Gold	A29226TR-ND	—	—	3,000	660.00/M	175196-3
16 ~ 20	30µ" Gold	A29226-ND	.34	.22	—	—	175218-3
16 ~ 20	30µ" Gold	A29228TR-ND	—	—	3,000	283.50/M	1-175196-3
16 ~ 20	30µ" Gold	A29228-ND	.53	.34	—	—	1-175218-3
16 ~ 20	Tin	A29229-ND	.38	.25	—	—	1-175218-5
20 ~ 24	15µ" Gold	A29220TR-ND	—	—	3,500	284.00/M	175195-2
20 ~ 24	15µ" Gold	A29220-ND	.29	.19	—	—	175217-2
20 ~ 24	15µ" Gold	A29222TR-ND	—	—	3,500	255.60/M	1-175195-2
20 ~ 24	15µ" Gold	A29222-ND	.29	.19	—	—	1-175217-2
20 ~ 24	30µ" Gold	A29221-ND	.34	.22	—	—	175217-3
20 ~ 24	30µ" Gold	A29223-ND	.34	.22	—	—	1-175217-3
20 ~ 24	Tin	A29224TR-ND	—	—	3,500	198.80/M	1-175195-5
20 ~ 24	Tin	A29224-ND	.38	.25	—	—	1-175217-5
24 ~ 28	15µ" Gold	A29217TR-ND	—	—	4,000	230.76/M	1-175194-2
24 ~ 28	15µ" Gold	A29217-ND	.31	.20	—	—	1-175216-2
24 ~ 28	30µ" Gold	A29216-ND	.73	.47	—	—	175216-3
24 ~ 28	30µ" Gold	A29218-ND	.34	.22	—	—	1-175216-3
24 ~ 28	Tin	A29219TR-ND	—	—	4,000	159.76/M	1-175194-5
24 ~ 28	Tin	A29219-ND	.29	.19	—	—	1-175216-5
D3000 Tab Contacts — RoHS Compliant							
14 ~ 16	15µ" Gold	A29304TR-ND	—	—	3,000	223.66/M	917485-2
14 ~ 16	15µ" Gold	A29304-ND	.61	.40	—	—	917512-2
14 ~ 16	30µ" Gold	A29289TR-ND	—	—	4,000	316.84/M	353716-3
14 ~ 16	30µ" Gold	A29289-ND	.24	.16	—	—	353718-3
14 ~ 16	Tin	A29290TR-ND	—	—	4,000	135.00/M	353716-5
14 ~ 16	Tin	A29290-ND	.13	.09	—	—	353718-5
14 ~ 16	Tin	A29306-ND	.34	.22	—	—	917512-5
16 ~ 20	15µ" Gold	A29251TR-ND	—	—	3,000	148.50/M	175286-2
16 ~ 20	15µ" Gold	A29251-ND	.38	.25	—	—	175289-2
16 ~ 20	30µ" Gold	A29252TR-ND	—	—	3,000	198.46/M	175286-3
16 ~ 20	30µ" Gold	A29252-ND	.44	.29	—	—	175289-3
16 ~ 20	Tin	A29253TR-ND	—	—	3,000	113.40/M	175286-5
16 ~ 20	Tin	A29253-ND	.21	.14	—	—	175289-5
20 ~ 24	15µ" Gold	A29248TR-ND	—	—	3,500	355.00/M	175285-2
20 ~ 24	15µ" Gold	A29248-ND	.21	.14	—	—	175288-2
20 ~ 24	30µ" Gold	A29249TR-ND	—	—	3,500	310.50/M	175285-3
20 ~ 24	30µ" Gold	A29249-ND	.29	.19	—	—	175288-3
20 ~ 24	Tin	A29250TR-ND	—	—	3,500	248.50/M	175285-5
20 ~ 24	Tin	A29250-ND	.18	.12	—	—	175288-5
24 ~ 28	30µ" Gold	A29246-ND	.35	.23	—	—	175287-3

Description	Digi-Key Part No.	Price Each 1	Price Each 100	Tyco Electronics Part No.
D3000 Crimp Tool, 24-28 AWG	A30052-ND	603.45	—	91565-1
D3000 Crimp Tool, 20-24 AWG	A30053-ND	603.45	—	91559-1
D3000 Crimp Tool, 16-20 AWG	A30054-ND	603.45	—	91558-1
D3000 Crimp Tool, 14-16 AWG 2L	A30055-ND	603.45	—	91560-1
D3000 Crimp Tool, 14-16 AWG 3L	A30056-ND	603.45	—	91561-1
D3000 Extraction Tool	A36245-ND	41.64	—	234168-1
Conn. Kit Receptacle for 6-Position Motor Connector	A34529-ND◆	22.92	14.71	176346-8
Keying Plug for D3000 Series Receptacle Housing	A34530-ND◆	.24	.20	175855-1

◆ ***RoHS Compliant***

(Continued)

Dynamic Series D-5000

Specifications: • Material: Black GF Polyester **• Flammability:** UL 94V-0 **• Voltage Rating:** 630VAC **• Current Rating:** 12A - 45A **• Temperature Rating:** -55°C ~ 105°C

Fig. 1

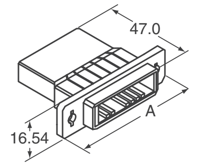

Fig. 2

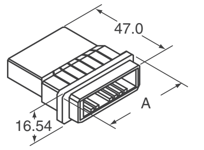

Fig. 3

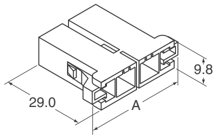

Fig. 4

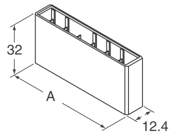

Fig. 5

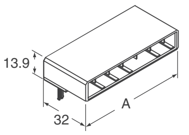

Fig. 6

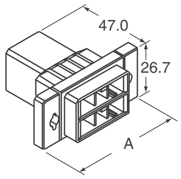

Fig. 7

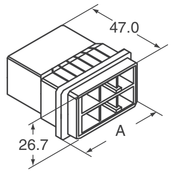

Fig. 8

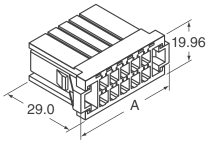

Fig. 9

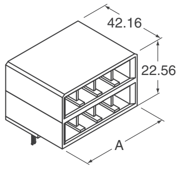

Fig. 10

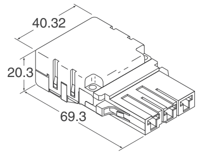

Fig.	No. of Pos.	Dim. A mm	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	Tyco Electronics Part No.
D5200 Tab Housing Panel Mount Single Row Keyed — RoHS Compliant								
1	2	47.0	X	—	A29650-ND	.80	.52	1-353047-2
	2	47.0	Y	—	A29651-ND	.87	.56	2-353047-2
	3	57.0	X	—	A29652-ND	1.11	.71	1-353047-3
	3	57.0	Y	—	A29653-ND	1.11	.71	2-353047-3
D5200 Tab Housing Free Hanging Single Row Keyed — RoHS Compliant								
2	2	33.44	X	—	A29646-ND	1.07	.69	1-353046-2
	2	33.44	Y	—	A29647-ND	.82	.53	2-353046-2
	3	43.6	X	—	A29648-ND	1.35	.87	1-353046-3
	3	43.6	Y	—	A29649-ND	1.35	.87	2-353046-3
D5200 Receptacle Housing Single Row Keyed — RoHS Compliant								
3	2	35.76	X	—	A29582-ND	1.08	.70	1-179958-2
	2	35.76	Y	—	A29583-ND	1.21	.78	2-179958-2
	3	45.92	X	—	A29584-ND	1.08	.70	1-179958-3
	3	45.92	Y	—	A29585-ND	1.05	.68	2-179958-3
	4	53.68	X	—	A29586-ND	1.02	.66	1-179958-4
	4	53.68	Y	—	A29587-ND	1.02	.66	2-179958-4
	6	74.0	X	—	A29588-ND	2.26	1.45	1-179958-6
	6	74.0	Y	—	A29589-ND	3.13	2.01	2-179958-6
D5200 Header Straight Single Row Keyed								
4	2	29.36	X	30µ" Gold	A29659-ND◆	3.69	2.65	1-353080-3
	2	29.36	Y	15µ" Gold	A29660-ND◆	2.91	2.09	2-353080-2
	2	29.36	Y	30µ" Gold	A29661-ND	3.81	2.74	2-353080-3
	3	39.52	X	30µ" Gold	A29669-ND◆	5.07	3.64	1-353082-3
	3	39.52	Y	15µ" Gold	A29670-ND◆	3.75	2.69	2-353082-2
	4	49.68	X	30µ" Gold	A29710-ND◆	5.88	4.22	1-917542-3
	4	49.68	Y	15µ" Gold	A29711-ND◆	4.11	2.95	2-917542-2
	6	70.0	Y	15µ" Gold	A29596-ND◆	4.59	3.29	2-179960-2
D5200 Header Right Angle Single Row Keyed								
5	2	29.36	X	15µ" Gold	A29654-ND◆	2.40	1.72	1-353079-2
	2	29.36	Y	15µ" Gold	A29656-ND	2.73	1.96	2-353079-2
	3	39.52	X	30µ" Gold	A29663-ND◆	4.50	3.23	1-353081-3
	3	39.52	Y	15µ" Gold	A29664-ND◆	4.95	3.55	2-353081-2
	4	49.68	X	15µ" Gold	A29703-ND	5.67	4.07	1-917541-2
	4	49.68	X	30µ" Gold	A29704-ND◆	5.79	4.15	1-917541-3
	4	49.68	Y	15µ" Gold	A29705-ND◆	5.67	4.07	2-917541-2
	4	49.68	Y	30µ" Gold	A29706-ND	6.84	4.91	2-917541-3
	6	70.0	X	15µ" Gold	A29590-ND◆	8.49	6.09	1-179959-2
D5200 Tab Housing Panel Mount Dual Row Keyed — RoHS Compliant								
6	4	47.0	XX	—	A29753-ND	1.45	.93	1-917809-2
	4	47.0	YY	—	A29754-ND	1.90	1.23	2-917809-2
	4	47.0	XY	—	A29755-ND	5.06	3.25	3-917809-2
	6	57.0	XX	—	A29756-ND	1.78	1.15	1-917809-3
	6	57.0	XY	—	A29758-ND	1.78	1.15	3-917809-3
D5200 Tab Housing Dual Row Keyed — RoHS Compliant								
7	4	33.44	XX	—	A29747-ND	1.52	.98	1-917808-2
	4	33.44	YY	—	A29748-ND	1.79	1.15	2-917808-2
	4	33.44	XY	—	A29749-ND	1.79	1.15	3-917808-2
	6	43.6	XX	—	A29750-ND	1.58	1.02	1-917808-3
	6	43.6	YY	—	A29751-ND	1.84	1.18	2-917808-3

Fig.	No. of Pos.	Dim. A mm	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	Tyco Electronics Part No.
D5200 Receptacle Housing Dual Row Keyed — RoHS Compliant								
8	4	33.36	—	—	A2974 0-ND	1.86	1.20	917807-2
	4	33.36	XX	—	A29741-ND	1.30	.84	1-917807-2
	4	33.36	YY	—	A29742-ND	1.86	1.20	2-917807-2
	4	33.36	XY	—	A29743-ND	1.30	.84	3-917807-2
	6	43.52	XX	—	A29744-ND	1.58	1.02	1-917807-3
	6	43.52	YY	—	A29745-ND	1.92	1.24	2-917807-3
	6	43.52	XY	—	A29746-ND	1.58	1.02	3-917807-3
D5200 Header Right Angle Dual Row Keyed								
9	4	29.36	XX	15µ" Gold	A29759-ND◆	5.49	3.94	1-1123309-2
	4	29.36	YY	15µ" Gold	A29761-ND◆	6.45	4.63	2-1123309-2
	4	29.36	XY	15µ" Gold	A29763-ND	5.70	4.09	3-1123309-2
D5200 Cable Clamp Receptacle Single Row — RoHS Compliant								
10	3	—	—	—	A29862-ND	4.96	4.02	1473668-1

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each 1	100	Tape and Reel Qty.	Pricing	Tyco Electronics Part No.
D5000 Receptacle Contacts — RoHS Compliant							
8	15µ" Gold	A29326-ND	2.65	1.70	—	—	1318697-2
8	Silver	A29327-ND	.89	.58	—	—	1318697-6
10 ~ 12	15µ" Gold	A29272-ND	.70	.45	—	—	316041-2
10 ~ 12	15µ" Gold	A29272TR-ND	—	—	1,200	868.32/M	179956-2
10 ~ 12	30µ" Gold	A29273-ND	.79	.51	—	—	316041-3
10 ~ 12	30µ" Gold	A29273TR-ND	—	—	1,200	670.96/M	179956-3
10 ~ 12	Silver	A29274-ND	.89	.57	—	—	316041-6
10 ~ 12	Silver	A29274TR-ND	—	—	1,200	642.60/M	179956-6
14 ~ 16	15µ" Gold	A29269-ND	.73	.48	—	—	316040-2
14 ~ 16	15µ" Gold	A29269TR-ND	—	—	1,500	648.00/M	179955-2
14 ~ 16	30µ" Gold	A29270-ND	1.07	.69	—	—	316040-3
14 ~ 16	Silver	A29271-ND	.95	.61	—	—	316040-6
16 ~ 20	Silver	A29333-ND	.91	.59	—	—	1318986-6
D5000 Tab Contacts — RoHS Compliant							
10 ~ 12	15µ" Gold	A29313-ND	.59	.38	—	—	917805-2
10 ~ 12	15µ" Gold	A29313TR-ND	—	—	1,200	463.06/M	917803-2
10 ~ 12	30µ" Gold	A29314-ND	.99	.64	—	—	917805-3
14 ~ 16	15µ" Gold	A29311-ND	.54	.35	—	—	917804-2

Description	Digi-Key Part No.	Price Each	Tyco Electronics Part No.
D5000 Crimp Tool, 16 ~ 20 AWG	A30057-ND	603.45	91596-1
D5000 Crimp Tool, 14 ~ 16 AWG	A30058-ND	945.00	234170-1
D5000 Crimp Tool, 10 ~ 12 AWG	A30059-ND	945.00	234171-1
D5000 Extraction Tool	A32487-ND	25.44	409158-1

◆ *RoHS Compliant*

AMP M Series Pin and Socket Connectors

Specifications: • Temperature Rating: -55°C ~ 150°C • Flammability Ratings: UL94V-0 • Dielectric Withstanding Voltage (at sea level): Type II Contacts, 1500VAC, RMS Type III+ Contacts, 900VAC, RMS • Durability (Mating/Unmating): Types II and III+ Contacts • Gold Plated: 500 cycles; Types II and III+ Contacts, • Bright Tin-Lead Plated: 50 cycles

Fig. 1

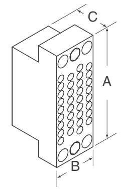

34 Position Shown

Fig. 2

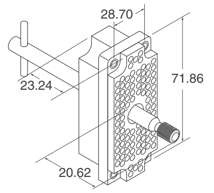

Fig. 3

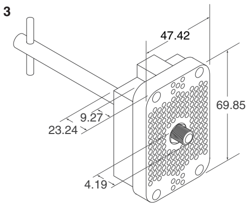

Fig. 4

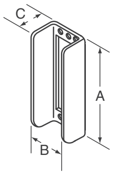

Fig. 5

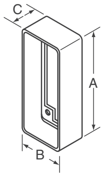

Fig. 6

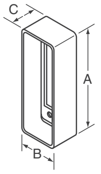

Fig. 7

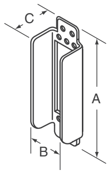

Fig. 8

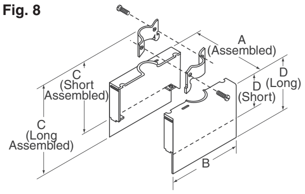

Fig. 9

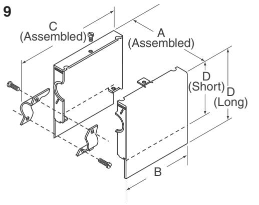

Fig. 10

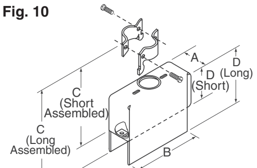

Standard Housings

Fig.	No. of Pos.	Housing Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Plug Housing — RoHS Compliant									
1	6	Black Phenolic	25.4	9.65	23.24	A30139-ND	8.06	5.17	202758-1
	14		31.75	11.18	23.24	A30184-ND	5.46	3.51	201355-1
	20		39.62	11.18	23.24	A30114-ND	7.31	4.70	201356-1
	26		41.4	14.22	23.24	A30115-ND	8.40	5.39	201359-1
	34		50.8	19.05	23.24	A30185-ND	8.16	5.24	1-201357-1
	41		68.25	11.18	23.24	A30132-ND	20.25	12.99	202135-2
	50		65.91	19.05	23.24	A30186-ND	14.31	9.18	201358-1
	75		65.91	28.19	23.24	A30181-ND	20.35	13.06	201310-1
	104		69.85	22.22	23.24	A30183-ND	29.23	18.76	201345-1
Receptacle Housing — RoHS Compliant									
1	6	Black Phenolic	25.4	9.65	23.24	A30226-ND	8.80	5.65	202757-1
	14		31.75	11.18	23.24	A30179-ND	5.75	3.69	201298-1
	20		39.62	11.18	23.24	A30151-ND	8.93	5.73	200346-2
	26		41.4	14.22	23.24	A30154-ND	8.53	5.48	200512-2
	34		50.8	19.05	23.24	A30164-ND	8.56	5.50	200838-2
	41		68.25	11.18	23.24	A30180-ND	14.89	9.56	201302-1
	50		65.91	19.05	23.24	A30150-ND	15.03	9.64	200277-2
	75		65.91	28.19	23.24	A30182-ND	15.79	10.14	201311-1
	104		69.85	22.22	23.24	A30104-ND	28.96	18.59	201037-1
CF Position with Center Fasteners (Plug) — RoHS Compliant									
2	104	Black Phenolic	—	—	—	A30201-ND	76.11	48.83	201692-4
3	160		—	—	—	A30228-ND	44.28	28.41	202799-2
CF Position with Center Fasteners (Receptacle) — RoHS Compliant									
2	104	Black Phenolic	—	—	—	A30198-ND	31.67	20.32	201532-4
3	160		—	—	—	A30229-ND	48.57	31.17	202800-2

Protective Hardware

Fig.	No. of Pos.	Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Pin Hoods, Internal Open-End — RoHS Compliant									
4	6	Nickel Plated Steel	25.4	12.7	18.24	A30234-ND	26.50	21.46	204258-6
	14		31.75	13.97	18.24	A30188-ND	7.29	5.90	201363-4
	26		41.45	18.42	18.24	A30125-ND	11.05	8.95	201785-4
	34		50.8	22.35	18.24	A30202-ND	9.98	8.08	201786-4
Pin Hoods, Internal Closed-End — RoHS Compliant									
5	34	Nickel Plated Steel	54.1	22.35	17.45	A30136-ND	13.71	11.11	202434-4
	50		73.02	24.18	17.45	A30223-ND	10.35	8.39	202394-2
	75		70.23	33.27	17.45	A30190-ND	6.13	4.97	201369-4
	160CFΔ		75.57	51.82	17.45	A30231-ND	40.80	33.04	203743-4
Pin Hoods, External Closed-End — RoHS Compliant									
6	26	Aluminum Iridite	47.75	20.62	17.45	A30112-ND	18.86	15.27	201349-2
	34		57.15	25.4	17.45	A30113-ND	15.08	12.21	201350-2
	50	Nickel Plated Steel	72.26	25.4	17.45	A30118-ND	16.63	13.47	201390-5
	75		72.26	34.54	17.45	A30189-ND	11.45	9.27	201368-4
	104		76.84	45.72	17.45	A30111-ND	12.77	10.34	201346-4
6	104CFΔ	Nickel Plated Steel	77.22	34.04	18.24	A30216-ND	8.63	6.99	202119-2
	160CFΔ		76.84	53.34	17.45	A30140-ND	25.66	20.78	203744-4
Pin Hoods, External Open-End with Flanges — RoHS Compliant									
7	34	Nickel Plated Steel	73.02	22.63	17.45	A30130-ND	25.45	20.61	202095-5
	41		85.73	14.35	17.45	A30133-ND	19.45	15.75	202165-5

Fig.	No. of Pos.	Material	Body Style	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Two-Piece Shields, 180° Cable Exit											
8	20	Nickel Plated Steel	Short	13.21	39.67	46.10	33.02	A30233-ND◆	139.19	112.68	204087-1
	26		Short	16.26	41.28	45.24	33.02	A30155-ND◆	47.92	38.80	200514-2
	34		Short	21.03	50.80	44.83	31.75	A30157-ND	11.17	9.05	200517-2
	34		Short	21.03	50.80	44.83	31.75	A34339-ND◆	11.17	9.05	200517-9
	41		Long	13.08	68.25	62.31	49.99	A30222-ND◆	49.12	39.77	202383-2
	41		Short	13.08	68.25	45.24	32.77	A30134-ND◆	42.53	34.43	202383-1
	50		Long	21.03	65.86	62.69	50.04	A30119-ND◆	23.23	18.81	201443-2
	50		Short	21.03	65.86	45.62	32.77	A30159-ND◆	14.51	11.75	200532-2
	75		Long	30.35	69.27	84.51	71.04	A30225-ND◆	37.11	30.04	202713-2
	75		Short	30.35	69.27	67.44	53.98	A30224-ND◆	28.41	23.01	202713-1
	34	Anodized Aluminum	Short	21.03	50.80	44.83	31.75	A30156-ND◆	12.33	9.98	200517-1
	50		Short	21.03	65.86	45.62	32.77	A30158-ND◆	40.07	32.44	200532-1
	104	Nickel Plated Cast Alum.	Short	43.26	70.23	46.81	32.77	A30175-ND◆	92.80	75.13	201131-1
Two-Piece Shields, 90° Cable Exit — RoHS Compliant											
9	50	Nickel Plated Steel	Short	22.86	65.84	78.69	53.98	A30142-ND	105.11	85.09	203975-1
	75		Short	30.35	69.34	82.80	53.98	A30137-ND	45.84	37.12	202711-1
One-Piece Shields, 180° Cable Exit — RoHS Compliant											
10	14	Nickel Plated Steel	Long	13.49	33.32	62.69	50.01	A30191-ND	8.88	7.20	201378-2
	14		Short	13.49	33.32	45.62	33.02	A30187-ND	11.93	9.66	201360-2
	20		Short	13.08	41.66	45.62	33.02	A30109-ND	64.32	52.08	201227-2
	26		Short	16.26	42.85	45.62	32.92	A30108-ND	31.35	25.39	201169-2
Two-Piece Shields, 45° Cable Exit — RoHS Compliant											
—	104CFΔ	Nickel Plated Steel	Short	—	—	—	—	A30217-ND	33.64	27.24	202169-1
	104CFΔ		Short	—	—	—	—	A30215-ND	38.58	31.23	202110-1
	160CFΔ		Short	—	—	—	—	A30227-ND	69.43	56.21	202798-1

Strain Relief Hardware

No. of Positions	Cable Opening L x W (mm)	Body Style	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Cable Clamps						
6	7.75 x 3.94	Short	A30230-ND◆	17.37	14.06	203432-1
14	13.46 x 8.51	Long	A30205-ND	11.32	9.17	201843-1
14	13.46 x 8.51	Long	A33432-ND◆	11.32	9.17	201843-3
20	19.81 x 8.51	Short	A30178-ND	20.83	16.87	201237-1
26	19.81 x 12.83	Long	A30206-ND	11.15	9.03	201845-1

◆ ***RoHS Compliant*** Δ CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers

(Continued)

Strain Relief Hardware *(Cont.)*

No. of Positions	Cable Opening L x W (mm)	Body Style	Digi-Key Part No.	Price Each 1	100	AMP Part No.
26	19.81 x 12.83	Long	A33435-ND◆	11.15	9.03	201845-2
26	19.81 x 10.92	Short	A30110-ND	17.93	14.52	201229-1
34	19.81 x 12.7	Long	A30207-ND	13.21	10.70	201846-1
34	19.81 x 10.8	Short	A30177-ND	8.13	6.58	201224-1
34	19.81 x 10.8	Short	A33437-ND◆	8.13	6.58	201224-7
41	38.1 x 9.14	Long	A30124-ND◆	39.75	32.19	201766-1
50	28.58 x 17.15	Long	A30208-ND◆	13.92	11.28	201847-1
50	28.58 x 13.97	Short	A30176-ND	12.14	9.83	201182-1
50	28.58 x 13.97	Short	A33438-ND◆	14.24	11.53	201182-4
75	28.58 x 23.5	Long	A30209-ND	13.80	11.17	201848-1
75	28.58 x 23.5	Long	A33439-ND◆	13.80	11.17	201848-5
75	28.58 x 20.32	Short	A30161-ND	9.98	8.08	200730-1
104	28.58 x 31.37	Long	A33441-ND◆	53.61	43.41	201849-3

Fastening Hardware

Style	Standard Connectors Used	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Turnable Jackscrews, 6-32 Double Lead Thread					
Long-Long Male	50, (90° shield only), 75 and 104	A30211-ND◊◆	6.38	5.17	201911-1
Long-Long Female		A30210-ND◊◆	8.17	6.62	201910-1
Long Male	20, 26, 34, 41 and 50	A34341-ND◆	2.86	2.32	1-200871-0
Long Female		A30165-ND	2.69	2.18	200867-1
Long Female		A34340-ND◆	2.67	2.16	1-200867-1
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30166-ND◆	3.74	3.03	200868-1
Short Female		A30167-ND◆	3.05	2.47	200870-1
Short-Short Female	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30193-ND◆	2.75	2.23	201389-1
Fixed Jackscrews — Double Lead Thread					
Male	—	A30169-ND	1.80	1.46	200874-1
Male	—	A33442-ND◆	1.93	1.57	1-200874-2
Female	—	A30170-ND	2.86	2.32	200875-1
Female	—	A33443-ND◆	2.81	2.28	200875-7
Turnable Jackscrews, 6-32 Single Lead Thread					
Long-Long Male	50, (90° shield only), 75 and 104	A30145-ND◊◆	6.01	4.87	207234-1
Long-Long Female		A30146-ND◊◆	5.57	4.51	207235-1
Long Male	20, 26, 34, 41 and 50	A30194-ND	2.79	2.27	201413-1
Long Male		A34342-ND◆	2.79	2.27	201413-4
Long Female		A30195-ND	3.32	2.69	201414-1
Long Female		A34343-ND◆	2.94	2.38	201414-4
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30105-ND◆	6.74	5.46	201087-1
Short Female		A30106-ND◆	4.37	3.54	201088-1
Short-Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30203-ND◆	3.95	3.20	201827-1
Short-Short Female		A30204-ND◆	3.19	2.59	201828-1
Fixed Jackscrews — Single Lead Thread					
Male	—	A30174-ND	2.06	1.67	201092-1
Male	—	A33444-ND◆	1.96	1.59	201092-4
Female	—	A30173-ND	2.18	1.77	201089-1
Female	—	A33445-ND◆	2.18	1.77	201089-4

Style	Standard Connectors Used	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Locking Springs — RoHS Compliant					
Male	6, 14, 20 and 41	A30212-ND	1.85	1.50	201921-1
Female		A30213-ND	1.54	1.25	201922-1
Female	26	A30127-ND‡	3.49	2.83	201918-1
Male	34 and 50	A30214-ND	2.71	2.20	201925-1
Female		A30129-ND	5.25	4.25	201926-1

Guide Hardware

Type	Standard Connectors Used	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Center Pin	6,14,20,26 34, 41, 50, 75 and 104	A30152-ND◆	2.88	2.33	200389-2
Center Socket		A30153-ND	3.13	2.54	200390-2
Center Socket		A33446-ND◆	3.05	2.47	200390-9
Corner Pin	34 and 50	A30162-ND	3.09	2.50	200833-2
Corner Pin		A33447-ND◆	3.09	2.50	1-200833-1
Corner Socket		A30163-ND	3.09	2.50	200835-2
Corner Socket		A33448-ND◆	3.34	2.71	1-200835-1
Corner Socket		A30141-ND◆	12.62	10.22	203964-1
Corner Pin	75, 104, and 160CFΔ	A30171-ND	3.13	2.54	201046-2
Corner Pin		A33449-ND◆	3.28	2.66	1-201046-2
Corner Socket		A30172-ND◆	3.26	2.64	201047-2
Corner Socket		A30232-ND◆	8.02	6.50	203966-1
Corner Pin	104CFΔ	A30219-ND	7.83	6.35	202173-5
Corner Pin		A33450-ND◆	9.56	7.74	202173-8
Corner Pin		A30218-ND§	5.40	4.37	202173-1
Corner Pin		A33451-ND§◆	6.15	4.99	202173-7
Corner Socket		A30220-ND	5.94	4.82	202174-1
Corner Socket		A33452-ND◆	5.46	4.42	202174-5
Corner Socket		A30221-ND§◆	5.46	4.42	202174-4
Corner Socket		A30144-ND◆	11.07	8.96	204099-2
Tool, Nut Driver (4-40)		A30147-ND	32.62	—	811262-1
Tool, Nut Driver (6-32)		A30148-ND	53.74	—	811262-2

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
Hand Tool, Pro-Crimper,Handle Only, without Dies	A9996-ND	45.36	354940-1
Die Set CPC Conn	A9919-ND	216.00	58495-2
Contact Extraction Tool	A1329-ND	12.38	305183
Crimp Tool, Pro-Crimper II with Dies	A9920-ND	164.70	58495-1
Crimp Tool, 26-24 AWG, Certified – Crimp	A9951-ND	603.45	91515-1
Crimp Tool, 24-20 AWG, Certified – Crimp	A9839-ND	603.45	91523-1
Crimp Tool, Ratcheting 18-16 AWG	A9841-ND	603.45	91505-1

◆ ***RoHS Compliant*** Δ CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers

Contacts

CONTACT FINISH: A: Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact. **B:** Duplex plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab. **F:** Bright tin-lead on entire contact.

Description	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Tape and Reel Pricing 4,000	AMP Part No.
Series 1 — Crimp													
Pin	30-26	.040 - .060	A	A25092-ND◆	16.16	112.88	66429-4	A25092CT-ND◆	108.32	496.44	A25092TR-ND◆	541.58/M	66425-8
Socket	30-26	.040 - .060	A	A25093-ND◆	25.39	177.33	66428-4	A25093CT-ND◆	88.51	405.67	A25093TR-ND◆	442.55/M	66424-8
Pin	26-24	.035 - .055	A	A1344-ND◆	10.02	69.99	66107-4	A1344CT-ND◆	72.77	333.51	A1344TR-ND◆	363.83/M	66106-8
Socket	26-24	.035 - .055	A	A1345-ND◆	11.98	83.67	66109-4	—	—	—	—	—	—
Pin	24-20	.040 - .080	A	A1342-ND◆	10.53	73.58	66103-4	A1342CT-ND◆	80.54	369.12	A1342TR-ND◆	402.68/M	66102-9
Socket	24-20	.040 - .080	A	A1343-ND◆	12.58	87.88	66105-4	A1343CT-ND◆	97.14	445.21	A1343TR-ND◆	485.69/M	66104-9
Pin	24-20	.080 -.100	A	A1648-ND◆	7.43	51.87	66400-4	A1648CT-ND◆	83.47	382.55	A1648TR-ND◆	417.33/M	66332-8
Socket	24-20	.080 -.100	A	A1661-ND◆	8.87	61.93	66399-4	A1661CT-ND◆	97.70	447.77	A1661TR-ND◆	488.48/M	66331-8
Pin	18-16	.080 - .100	A	A1340-ND◆	10.51	73.40	66099-4	A1340CT-ND◆	79.01	362.13	A1340TR-ND◆	395.06/M	66098-9
Socket	18-16	.080 -.100	A	A16080-ND◆	12.59	87.91	66101-4	A16080CT-ND◆	87.97	403.18	A16080TR-ND◆	439.83/M	66100-9
Pin	18-14	.080 - .100	A	A1650-ND◆	10.13	70.72	66361-4	A1650CT-ND◆	82.79	379.47	A1650TR-ND◆	413.97/M	1-66359-0
Socket	18-14	.080 -.100	A	A1341-ND◆	11.09	77.45	66360-4	A1341CT-ND◆	92.26	422.85	A1341TR-ND◆	461.30/M	1-66358-0
Socket	18-14	.110 - .150	F	A25130-ND	7.54	52.65	66601-1	—	—	—	—	—	—
Pin	18-14	.110 - .150	A	A25131-ND◆	10.05	70.23	66602-2	A25131CT-ND◆	74.39	340.93	A25131TR-ND◆	371.93/M	66597-2
Socket	18-14	.110 - .150	A	A25012-ND◆	11.29	78.85	66601-2	A25012CT-ND◆	101.65	465.89	A25012TR-ND◆	508.25/M	66598-2
Series 1 — Solder Tab													
Pin	—	—	B	A16081-ND	28.55	199.44	202236-1	—	—	—	—	—	—

◆ ***RoHS Compliant***

AMP .050” (1.27mm) Connectors

Fig. 1

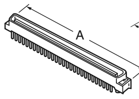

Fig. 2

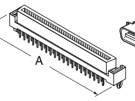

Fig. 3

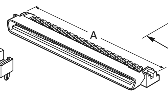

Fig. 4

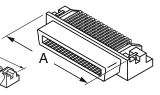

Housing & Tine Plate: Glass-filled nylon, rated 94V-0, black for standard, LCP, rated 94V-0, black for High Temperature. **Contacts:** Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 5

Housing: Polyester, Black, 94V-0. Connector will terminate .63 centerline flat ribbon cable, #30 AWG solid, PVC insulation.

Terminals: Phosphor bronze with 0.76µm minimum gold in contact area and 3.81µm minimum tin on terminating area, all over 1.27µm minimum nickel.

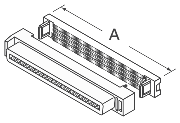

Fig. 6

Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

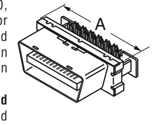

Fig. 7

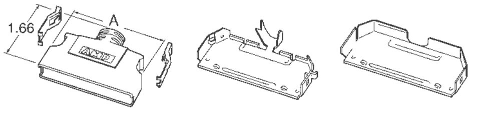

Enclosure: Polyester, rated 94V-0 **Shields:** Brass, nickel plated **Locking Spring:** Stainless Steel (Use with Fig. 6)

Fig. 8

Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

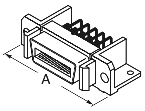

Fig. 9

Housing: LCP, rated 94V-0, black

Contacts: Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area

Shield: Carbon steel, tin-cobalt plated

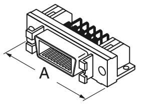

Fig. 10

Housing: Glass filled nylon, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with minimum of 12µ gold in mating and tin-lead in solder tail area **Shield:** Carbon steel, tin-cobalt plated

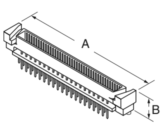

Fig. 11

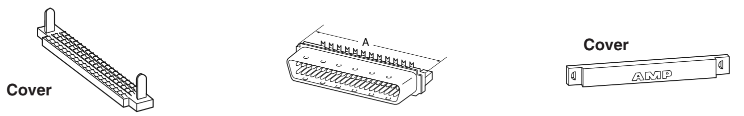

Housing and Covers: Thermoplastic, 94V-0 rated, black or gray **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ tin-lead on termination end; all underplated 50µ nickel **Shell:** Steel, plated 20µ bright tin-lead over 50µ copper **Shell (RoHS Compliant):** Steel, plated 20µ tin-nickel over 150µ copper **Recommended Wire Size:** 28 AWG or 30 AWG, solid or stranded, with a .029-.036 (0.74-0.91) insulation diameter

Fig. 12

Housing and Covers: Thermoplastic, 94V-0 rated, black

Contacts: Phosphor bronze, duplex plated 30µ tin-lead on termination end; all underplated 50µ nickel

Shell: Steel, plated 200µ bright tin-lead over 50µ copper

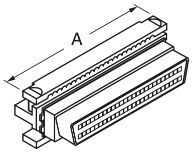

Fig. 13

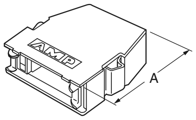

Fig. 14

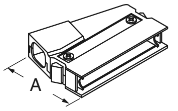

Fig. 15

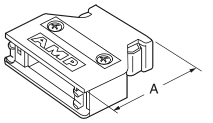

Backshell: Zinc, plated nickel over copper **Spring Latch:** Stainless steel **2-56 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel (Use with Fig. 13)

Fig. 16

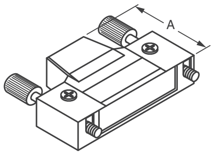

Backshell: Zinc, plated nickel over copper **Jackscrews:** Stainless steel or steel, black electroless nickel plated **Jackscrew Caps:** Polyolefin or PVC, black **2-56 and 4-40 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel (Use with Fig. 13)

Fig. 17

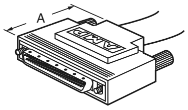

Backshell: Zinc **Boot:** PVC, Black **Jackscrews:** Stainless steel and PVC, black **Staple:** Carbon steel, plated 50µ tin-lead over 50µ nickel **2-56 Screws:** Stainless steel (Use with Fig. 13)

Fig. 18

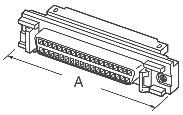

Fig. 19

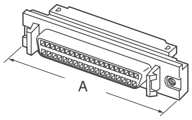

Fig. 20

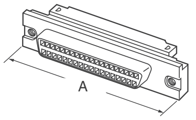

Covers: Thermoplastic, 94V-0 rated, black **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP® .050” (1.27mm) Series I (VESA Media Bus Standard) — RoHS Compliant							
1	20	Vert. Plug with Locks, Standard	.949 (24.05)	A33453-ND	7.78	6.22	5-5175473-1
	50	Vert. Plug with Locks, Standard	1.697 (43.10)	A33455-ND	12.43	9.94	5-5175473-6
	68	Vertical Plug	2.147 (54.53)	A33456-ND	3.30	2.64	1734100-7
	80	Vert. Plug with Locks, Standard	2.447 (62.15)	A33457-ND	16.38	13.10	5-5175473-9
	80	Vert. Plug with Locks, High Temp.	2.947 (74.85)	A31884-ND	3.30	2.64	1734100-8
	100	Vert. Plug with Locks, Standard	2.947 (74.85)	A33458-ND	18.00	14.40	6-5175473-0
	100	Vert. Plug with Locks, High Temp.	2.947 (74.85)	A33459-ND	4.35	3.48	1-1734100-0
2	80	Vert. Recept. with Locks, High Temp.	2.447 (62.15)	A31782-ND	3.53	2.82	1734101-8
	100	Vert. Recept. with Locks, Standard	2.947 (74.85)	A33460-ND	16.33	13.06	6-5175475-0
3	40	Right Angle Plug, Standard	1.391 (35.33)	A33461-ND	3.40	2.72	1734099-4
	50	Right Angle Plug, Standard	1.641 (41.68)	A33462-ND	2.90	2.32	1734099-5
	68	Right Angle Plug, Standard	2.091 (53.11)	A33463-ND	14.00	11.20	5-5175472-8
	68	Right Angle Plug, Standard	2.091 (53.11)	A33464-ND	3.75	3.00	1734099-7
	80	Right Angle Plug, Standard	2.391 (60.73)	A97695-ND	5.30	4.24	1734099-8
	100	Right Angle Plug, Standard	2.891 (73.43)	A33465-ND	6.18	4.94	1-1734099-0
4	40	Right Angle Receptacle, High Temp.	1.391 (35.33)	A33466-ND	3.15	2.52	1734037-4
	50	Right Angle Receptacle, High Temp.	1.641 (41.68)	A33467-ND	3.48	2.78	1734037-5
	50	Right Angle Receptacle, Standard	1.641 (41.68)	A33468-ND	12.60	10.08	5-5175474-6
	60	Right Angle Receptacle, Standard	1.891 (48.03)	A97694-ND	13.38	10.70	5-5175474-7
	80	Right Angle Receptacle, High Temp.	2.391 (60.73)	A33469-ND	3.58	2.86	1734037-1
	100	Right Angle Receptacle, High Temp.	2.891 (73.43)	A33470-ND	4.13	3.30	1-1734037-0
CHAMP® .050” (1.27mm) Series I (Blindmate) — RoHS Compliant							
2	40	Vert. Recept. with Locks, High Temp.	1.717 (43.60)	A97697-ND	8.48	6.78	787317-4
	80	Vert. Recept. with Locks, High Temp.	2.717 (69.00)	A97701-ND	9.58	7.66	787311-4
4	20	R/A Recept. with Locks, High Temp.	1.716 (29.88)	A97698-ND	10.98	8.78	787653-3
CHAMP® .050” (1.27mm) Series I (Ribbon Cable) — RoHS Compliant							
5	68	Receptacle, Ribbon Cable	2.147 (54.53)	A97696-ND	9.05	7.24	1734098-7

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP® .050” (1.27mm) Series II (Wire-To-Board)							
6	26	Plug Cable Connector	1.024 (26.00)	A32495-ND◆	12.20	9.76	2-5175677-4
	50	Plug Cable Connector	1.626 (41.30)	A32496-ND◆	18.48	14.78	2-5175677-7
7	26	Enclosure Kits	1.319 (33.50)	A26138-ND◆	8.78	7.02	176793-4
8	14	Right Angle Receptacle, Board Lock	1.163 (29.54)	A33471-ND◆	9.60	7.68	2-5178238-1
	20	Right Angle Receptacle, Board Lock	1.313 (33.35)	A33472-ND◆	9.38	7.50	2-5178238-2
	26	Right Angle Receptacle, Board Lock	1.463 (37.16)	A33473-ND◆	11.73	9.38	2-5178238-4
	50	Right Angle Receptacle, Board Lock	2.063 (52.40)	A33474-ND◆	11.58	9.26	2-5178238-7
	68	Right Angle Receptacle, Board Lock	2.513 (63.83)	A33475-ND◆	12.93	10.34	2-5178238-8
9	14	Right Angle Receptacle, High Temp.	1.163 (29.54)	A26144-ND	37.68	30.14	557153-3
—	68	Right Angle Header, Board Lock	2.515 (63.90)	A33476-ND◆	24.60	20.50	2-5174225-5
CHAMP® .050” (1.27mm) FH Connectors — RoHS Compliant							
10	80	Vert. Recept., 12mm, B=.37 (9.50)	2.447 (62.15)	A33477-ND	16.65	13.32	5176372-3
AMPLIMITE® .050” (1.27mm) Series (SCSI-2, SCSI-3, IPI-2, HIPPI)							
Cable Plug Connectors							
11	26	With Wire Lacing Term. Covers Black	.979 (24.87)	A31783-ND◆	7.75	6.20	5750913-2
	50	With Wire Lacing Term. Covers Black	1.579 (40.11)	A33480-ND◆	9.58	7.66	5750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A3302-ND	7.75	6.20	1-750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A31785-ND◆	7.90	6.32	1-5750913-5
	68	With Wire Lacing Term. Covers Black	2.029 (51.54)	A31786-ND◆	8.38	6.70	5750913-7
	68	With Wire Lacing Term. Covers Gray	2.029 (51.54)	A31787-ND◆	8.20	6.56	1-5750913-7
	100	With Wire Lacing Term. Covers Gray	2.829 (71.86)	A33481-ND◆	12.68	10.14	1-5750913-9
	26	Replacement Lacing Term. Cover Gray	.965 (24.51)	A23680-ND◆	1.39	1.12	1-750877-2
	50	Replacement Lacing Term. Cover Black	1.565 (39.75)	A23684-ND◆	1.52	1.22	750877-5
	50	Replacement Lacing Term. Cover Gray	1.565 (39.75)	A23681-ND◆	1.66	1.33	1-750877-5
	68	Replacement Lacing Term. Cover Black	2.015 (51.18)	A23685-ND◆	1.59	1.28	750877-7
	68	Replacement Lacing Term. Cover Gray	2.015 (51.18)	A23682-ND◆	1.76	1.41	1-750877-7

◆ *RoHS Compliant*

(Continued)

AMP .050” (1.27mm) Connectors *(Cont.)*

Fig. 21

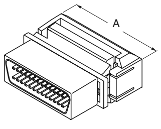

Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel **Recommended Wire Size:** .025 (.64) centerline, 30 and 32 AWG solid or stranded, PVC, flat ribbon cable

Fig. 22

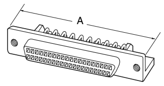

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; tin-lead on solder end; all underplated 50µ nickel

Fig. 23

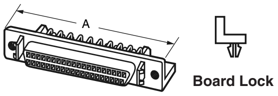

Housing: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ gold on contact area; tin-lead on solder area; all underplated 50µ nickel

Fig. 24

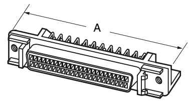

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; tin-lead on solder end; all underplated 50µ nickel

Fig. 25

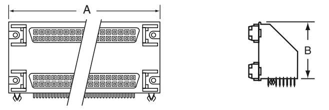

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 120µ tin-lead on solder end; all underplated 50µ nickel

Fig. 26

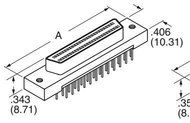

Fig. 27

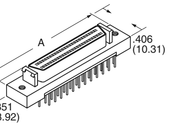

Fig. 28

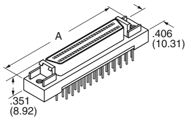

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end, 120µ (for .125) 150 (for .173) tin-lead on solder end; all underplated 50µ nickel

Fig. 29

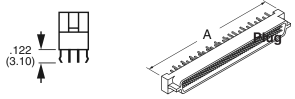

High density interface PCB mount connectors meet the requirements of Versa Module Europe (VME) bussing per SBus standards. Available in configurations for parallel board stacking as required by SBus specifications. **Housing:** Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, plated; 30µ gold on mating end, 150µ tin-lead on solder tail, all over 50µ nickel underplating

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	100	Replacement Lacing Term. Cover Gray	2.815 (71.50)	A23683-ND◆	2.58	2.06	1-750877-9
	20	With Assembled Terminal Covers	.829 (21.06)	A31788-ND◆	6.65	5.32	5749111-1
	26	With Assembled Terminal Covers	.979 (24.87)	A33482-ND◆	9.05	7.24	1-5749111-0
	50	With Assembled Terminal Covers	1.579 (40.11)	A33483-ND◆	6.48	5.18	5749111-4
	68	With Assembled Terminal Covers	2.029 (51.54)	A31789-ND◆	7.20	5.76	5749111-6
	80	With Assembled Terminal Covers	2.329 (59.16)	A31790-ND◆	18.53	14.82	5749111-7
	100	With Assembled Terminal Covers	2.829 (71.86)	A33484-ND◆	12.68	10.14	5749111-8
	120	With Assembled Terminal Covers	3.329 (84.56)	A35099-ND◆	23.60	18.88	5749111-9
	26	With Unassembled Terminal Covers	.979 (24.87)	A23690-ND	11.13	8.90	749621-2
	26	With Unassembled Terminal Covers	.979 (24.87)	A31791-ND◆	6.65	5.32	5749621-2
	28	With Unassembled Terminal Covers	1.029 (26.14)	A31792-ND◆	8.03	6.42	5749621-3
	40	With Unassembled Terminal Covers	1.329 (33.76)	A31793-ND◆	6.65	5.32	5749621-4
	50	With Unassembled Terminal Covers	1.579 (40.11)	A31794-ND◆	6.10	4.88	5749621-5
	68	With Unassembled Terminal Covers	2.029 (51.54)	A31795-ND◆	6.65	5.32	5749621-7
	80	With Unassembled Terminal Covers	2.329 (59.16)	A31796-ND◆	19.90	15.92	5749621-8
	100	With Unassembled Terminal Covers	2.829 (71.86)	A33485-ND◆	12.68	10.14	5749621-9
		Shielded Receptacles — RoHS Compliant					
12	50	With Assembled Terminal Covers	1.579 (40.11)	A31799-ND	10.38	8.30	5749210-5
	68	With Assembled Terminal Covers	2.029 (51.54)	A31800-ND	12.85	10.28	5749210-7
	50	With Unassembled Terminal Covers	1.579 (40.11)	A33486-ND	10.38	8.30	5749699-5
	68	With Unassembled Terminal Covers	2.029 (51.54)	A33487-ND	10.88	8.70	5749699-7
	100	With Unassembled Terminal Covers	2.829 (71.86)	A31801-ND	21.45	17.16	5749699-8
	68	With Lacing Terminal Covers	2.029 (51.54)	A33488-ND	10.70	8.56	5786860-7
		Straight and Angled Exit RFI/EMI Shielded Backshell Kits					
13	20	Straight with Spring Latches	1.290 (32.77)	A33489-ND◆	7.28	5.82	5749190-1
	40	Straight with Spring Latches	1.290 (32.77)	A33490-ND◆	7.90	6.32	5749192-1
	50	Straight w/ Spring Latches, ø.355 (9.02)	1.395 (35.43)	A23548-ND	7.80	6.24	749193-1
	50	Straight w/ Spring Latches, ø.355 (9.02)	1.395 (35.43)	A33491-ND◆	7.10	5.68	5749193-1
	50	Straight w/ Spring Latches, ø.400 (10.16)	1.395 (35.43)	A31802-ND◆	5.63	4.50	5749193-2
	68	Straight with Spring Latches	1.405 (35.69)	A3308-ND	13.93	11.14	749195-2
	68	Straight with Spring Latches	1.405 (35.69)	A33492-ND◆	9.63	7.70	5749195-2
	80	Straight with Spring Latches	1.600 (40.64)	A23549-ND◆	10.05	8.04	749196-2
	100	Straight with Spring Latches	1.725 (43.82)	A33493-ND◆	11.08	8.86	5749197-1
14	20	Angled with Spring Latches	1.290 (32.77)	A33494-ND◆	7.33	5.86	5749199-1
	26	Angled with Spring Latches	1.290 (32.77)	A23590-ND	15.33	12.26	749609-1
	26	Angled with Spring Latches	1.290 (32.77)	A33495-ND◆	7.80	6.24	5749609-1
	50	Angled with Spring Latches	1.395 (35.43)	A23552-ND	12.48	9.98	749202-2
	50	Angled with Spring Latches	1.395 (35.43)	A33496-ND◆	8.78	7.02	5749202-2
	68	Angled with Spring Latches	1.405 (35.69)	A33497-ND◆	12.55	10.04	5749204-1
	68	Angled with Spring Latches	1.405 (35.69)	A23586-ND	14.78	11.82	749204-2
	68	Angled with Spring Latches	1.405 (35.69)	A33498-ND◆	9.75	7.80	5749204-2
	80	Angled with Spring Latches	1.600 (40.64)	A33499-ND◆	11.70	9.36	5749205-1
	100	Angled with Spring Latches	1.725 (43.82)	A33500-ND◆	13.65	10.92	5749206-1
15	26	Straight with Spring Latches	1.290 (32.77)	A23589-ND	10.73	8.58	749608-1
	26	Straight with Spring Latches	1.290 (32.77)	A33501-ND◆	7.20	5.76	749608-2
	50	Straight with Spring Latches	1.800 (45.72)	A33502-ND◆	8.83	7.06	5749889-3
		Shielded Backshell Kits					
16	50	Straight with Male #2-56 Jackscrews	1.270 (32.26)	A23543-ND	18.05	14.44	749080-1
	50	Straight with Male #2-56 Jackscrews	1.270 (32.26)	A33503-ND◆	10.25	8.20	5749080-1
	100	Straight with Male #2-56 Jackscrews	1.695 (43.05)	A23544-ND	19.18	15.34	749081-1
	100	Straight with Male #2-56 Jackscrews	1.695 (43.05)	A33504-ND◆	15.60	12.48	5749081-1
	100	Straight with Male #2-56 Jackscrews	2.082 (52.88)	A33505-ND◆	16.10	12.88	5749854-1
	100	Straight w/ Female #4-40 Jackscrews	1.695 (43.05)	A35100-ND◆	16.80	13.44	5749081-2
17	68	Straight with Male #2-56 Jackscrews	1.887 (47.93)	A3309-ND	20.58	16.46	750752-1
	68	Straight with Male #2-56 Jackscrews	1.887 (47.93)	A33506-ND◆	14.15	11.32	5750752-1
	68	Straight w/ Female #4-40 Jackscrews	1.887 (47.93)	A33507-ND◆	13.65	10.92	5750752-2

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Panel Mount Receptacle Assemblies					
18	26	With Rails, 2-56 Threaded Holes	1.465 (37.21)	A31803-ND◆	11.15	8.92	1-749611-2
	50	With Rails, 2-56 Threaded Holes	2.065 (52.45)	A33508-ND◆	13.50	10.80	5-749611-5
19	50	Without Rails, 4-40 Threaded Holes Assembled Standard	2.065 (52.45)	A3313-ND	14.65	11.72	750640-1
			2.065 (52.45)	A33509-ND◆	13.50	10.80	5-750640-1
20	68	Without Rails, 2-56 Threaded Holes Assembled Standard	2.515 (63.88)	A33510-ND◆	17.10	13.68	1-749656-2
	68	Without Rails and Latch Blocks	2.515 (63.88)	A26137-ND	17.10	13.68	749877-7
	68	Without Rails and Latch Blocks	2.515 (63.88)	A33511-ND◆	17.10	13.68	5-749877-7
	100	Without Rails and Latch Blocks	3.315 (84.20)	A23724-ND	24.30	19.44	749877-9
—	50	Without Rails and Latch Blocks, Plug	2.065 (52.45)	A23725-ND	17.13	13.70	749879-5
		Unshielded Plug Assemblies and Backshell Kit — RoHS Compliant					
21	68	Unshielded for .025 (0.64) Centerline Ribbon Cable	2.023 (51.30)	A31805-ND	2.95	2.36	5786090-7
			2.028 (51.50)	A35101-ND	4.35	3.48	5390377-7
		Right Angle Receptacle Headers					
22	40	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.815 (46.10)	A31806-ND◆	7.45	5.96	5787170-4
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31807-ND◆	7.98	6.38	5787170-5
	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A33512-ND◆	6.90	5.52	5787169-7
	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A31808-ND◆	6.75	5.40	5787170-7
	100	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A31809-ND◆	15.13	12.10	5787169-9
			3.315 (84.20)	A35092-ND◆	18.55	14.84	5787170-9
	100	Without Rails, with Boardlocks, .120 (3.05) Solder Tails	3.315 (84.20)	A31810-ND◆	16.63	13.30	5787362-9
23	26	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.465 (37.21)	A35093-ND◆	6.45	5.16	5787394-2
	28	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.515 (38.48)	A23731-ND	7.55	6.04	787082-3
			1.515 (38.48)	A31811-ND◆	7.08	5.66	5787082-3
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31812-ND◆	4.18	3.34	5787082-5
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails, 4-40 Threaded Holes	2.065 (52.45)	A31813-ND◆	6.38	5.10	5787395-5
	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3321-ND	8.68	6.94	787082-7
			2.515 (63.88)	A31814-ND◆	6.68	5.34	5787082-7
	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3322-ND	9.25	7.40	787394-7
			2.515 (63.88)	A33513-ND◆	8.33	6.66	5787394-7
	80	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.815 (71.50)	A35094-ND◆	13.28	10.62	5787394-8
	100	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A35091-ND	17.28	13.82	1-787082-8
24	26	With Rails, with Boardlocks	1.465 (37.21)	A23733-ND	8.08	6.46	787171-2
	26	With Rails, with Boardlocks	1.465 (37.21)	A33514-ND◆	7.55	6.04	1761028-1
	40	With Rails, with Boardlocks	1.815 (46.10)	A31815-ND◆	8.93	7.14	1761028-2
	50	With Rails, with Boardlocks	2.065 (52.45)	A31816-ND◆	7.55	6.04	1761028-3
	50	With Rails, with Boardlocks, 4-40 Threaded Holes	2.065 (52.45)	A31819-ND◆	9.35	7.48	5787266-5
	50	With Rails, without Boardlocks	2.065 (52.45)	A31817-ND◆	7.33	5.86	5787190-5
	68	With Rails, without Boardlocks	2.515 (63.88)	A33515-ND◆	11.15	8.92	5787190-7

◆ ***RoHS Compliant***

(Continued)

Tyco Electronics
Authorized Distributor

AMP .050" (1.27mm) Connectors *(Cont.)*

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
24	68	With Rails, with Boardlocks	2.515 (63.88)	A3323-ND	9.23	7.38	787171-7
	68	With Rails, with Boardlocks	2.515 (63.88)	A33516-ND◆	8.60	6.88	1761028-4
	80	With Rails, without Boardlocks	2.815 (71.50)	A31818-ND◆	12.20	9.76	5787190-8
	100	With Rails, with Boardlocks	3.315 (84.20)	A35090-ND◆	18.23	14.58	1761028-5
25	50/50	Right Angle Stacked with Rails, B: .906 (23.01)	2.065 (52.45)	A31820-ND◆	25.43	20.34	5787656-1
	68/68	Right Angle Stacked with Rails, B: 1.156 (29.36)	2.515 (63.88)	A23738-ND	48.43	38.74	787678-1
			2.515 (63.88)	A33517-ND◆	44.00	35.20	5787678-1
	68/68	Right Angle Stacked with Rails, Flat Top, B: 1.156 (29.36)	2.515 (63.88)	A23739-ND	51.53	41.22	787679-1
			2.515 (63.88)	A33518-ND◆	46.78	37.42	5787679-1
Vertical Receptacle Headers Without Rails and Latch Blocks							
26	50	.125 (3.18) Solder Tail	2.065 (52.45)	A31821-ND◆	11.25	9.00	5749070-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23741-ND	13.28	10.62	786555-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A33519-ND◆	12.38	9.90	5786555-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A31822-ND◆	11.48	9.18	5749070-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A31823-ND◆	13.05	10.44	5786555-7
	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A23744-ND	14.58	11.66	786557-7
	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A33520-ND◆	13.63	10.90	5786557-7
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A31824-ND◆	18.35	14.68	5749070-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A23746-ND	22.18	17.74	786555-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A33521-ND◆	20.70	16.56	5786555-9
Vertical Receptacle Headers Without Rails and With Latch Blocks							
27	50	.125 (3.18) Solder Tail	2.065 (52.45)	A31825-ND◆	12.63	10.10	5749721-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A31826-ND◆	9.73	7.78	5749721-7
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A35096-ND◆	9.20	7.36	5786155-5
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23750-ND	12.58	10.06	786155-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A33523-ND◆	11.73	9.38	5786155-7
Vertical Receptacle Headers With Rails and Latch Blocks							
28	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A23751-ND	10.93	8.74	786554-1
	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A33524-ND◆	10.18	8.14	5786554-1
	26	.125 (3.18) Solder Tail	1.465 (37.21)	A23752-ND	8.25	6.60	749069-2
	26	.125 (3.18) Solder Tail	1.465 (37.21)	A33525-ND◆	7.73	6.18	5749069-2
	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A23753-ND	8.98	7.18	786554-2
	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A33526-ND◆	8.40	6.72	5786554-2
	40	.125 (3.18) Solder Tail	1.815 (46.10)	A35095-ND◆	10.35	8.28	5749069-4
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23754-ND	11.75	9.40	749069-5
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A33527-ND◆	10.98	8.78	5749069-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A31827-ND◆	10.83	8.66	5786554-5
	50	.280 (7.11) ACTION PIN Tail	2.065 (52.45)	A35098-ND◆	9.20	7.36	5786556-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23756-ND	13.50	10.80	749069-7
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A33528-ND◆	12.63	10.10	5749069-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23757-ND	16.88	13.50	786554-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A33529-ND◆	15.78	12.62	5786554-7
	80	.125 (3.18) Solder Tail	2.815 (71.50)	A29112-ND	21.57	17.98	749069-8
	80	.125 (3.18) Solder Tail	2.815 (71.50)	A33530-ND◆	17.79	14.83	5749069-8
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23759-ND	21.20	16.96	749069-9
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A33531-ND◆	18.00	14.40	5749069-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A35097-ND◆	16.58	13.26	5786554-9
SBUS Connectors — RoHS Compliant							
29	96	Plug Header without Polarization	2.80 (71.00)	A33532-ND	14.90	11.92	5174683-8

◆ ***RoHS Compliant***

Right-Angle Headers – Shielded Slimline Connectors

Fig. 1

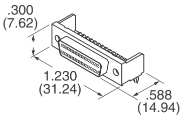

Fig. 2

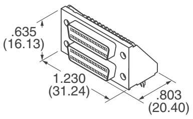

Housing: UL 94V-0 rated thermoplastic, black **Contact Footprints:** .100 x .050 (2.54 x 1.27) staggered centerlines **Bracket:** Zinc, plated 200µ minimum tin or tin-lead over 200µ minimum copper **Metal-Shell:** Carbon steel, plated 200µ minimum tin over 50µ minimum copper **Boardlocks:** Copper alloy, tin-lead plated **Contacts:** Phosphor bronze, duplex plated 30µ minimum gold on mating end, tin-lead plated 120µ minimum on solder end, all over 50µ minimum nickel

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	26	Receptacle	A31700-ND◆	12.48	7.82	5750823-1
2	26/26	Stacked Receptacle with Rear Contact Shield, Unkeyed	A23763-ND†	17.38	13.90	750820-1

◆ ***RoHS Compliant*** † Both headers unkeyed with 4-40 threaded holes

Plug – Shielded Slimline Cable Connectors

RoHS COMPLIANT

Fig. 1

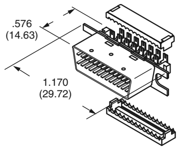

Covers: UL 94V-0 rated thermoplastic, black **Shell:** Steel, plated 200µ minimum bright tin-lead over 50µ minimum copper **Contacts:** Phosphor bronze, duplex plated 30µ minimum gold on mating end, 50µ minimum bright tin-lead on termination end, all underplated 50µ nickel **Bracket:** Zinc, plated 200µ minimum nickel over 200µ minimum copper **Recommended Wire Size:** 28 AWG, PVC or polyolefin insulation

Fig. 2 Connector shown partially assembled. Given dimensions reflect full assembly.

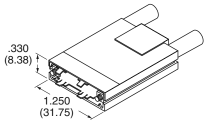

Backshell: Copper-nickel alloy **Jackscrews:** Steel, plated 100µ minimum tin over 50µ minimum copper, handles covered with ABS, gray **Inserts:** Zinc, plated 200µ minimum tin over 200µ minimum copper **Outside Covers:** Gray and black

Fig.	Description	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug Connector	with maximum O.D. .032 (0.813)	A31701-ND	14.92	9.35	5750833-1
2	Backshell Kit, Unkeyed	.250 ~ .280 (6.35 ~ 7.11)	A23765-ND	22.33	17.86	750850-1
	Backshell Kit, Unkeyed	.280 ~ .310 (7.11 ~ 7.87)	A23766-ND	22.33	17.86	750850-3

.050" X .050" Board to Board Connectors

Housing: Black thermoplastic, 94V-0 rated. **Contacts:** Phosphor bronze (headers), beryllium copper (receptacles), both with duplex plated gold in mating area.

Header

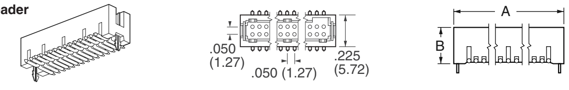

Receptacle

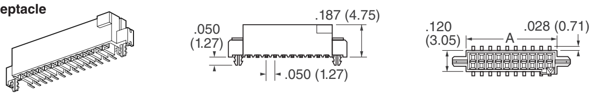

No. of Pos.	Dimension Inch (mm) A	B (Mated Height)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Vertical Dual Row Surface Mount Headers						
10	.372 (9.44)	.250 (6.35)	A99310-ND◆	3.42	3.08	5-104655-1
20	.622 (15.80)	.250 (6.35)	A31866-ND◆	4.53	4.08	5-104655-3
30	.872 (22.14)	.250 (6.35)	A99311-ND◆	5.07	4.57	5-104655-4
40	1.122 (28.49)	.250 (6.35)	A99312-ND◆	6.12	5.51	5-104655-5
50	1.372 (34.85)	.250 (6.35)	A3108-ND	7.26	6.54	104655-6
50	1.372 (34.85)	.250 (6.35)	A33533-ND◆	6.81	6.13	5-104655-6
70	1.872 (47.55)	.250 (6.35)	A3109-ND	8.22	7.40	104655-8
70	1.872 (47.55)	.250 (6.35)	A33534-ND◆	7.71	6.94	5-104655-8
80	2.122 (53.89)	.250 (6.35)	A99313-ND◆	8.70	7.83	5-104655-9
100	2.622 (66.60)	.250 (6.35)	A3110-ND	10.83	9.75	1-104655-1
100	2.622 (66.60)	.250 (6.35)	A33535-ND◆	10.14	9.13	6-104655-1
10	.372 (9.44)	.320 (8.13)	A99314-ND◆	3.42	3.08	5-104656-1
20	.622 (15.80)	.320 (8.13)	A3111-ND	4.44	4.00	104656-2
20	.622 (15.80)	.320 (8.13)	A33536-ND◆	4.17	3.76	5-104656-2
30	.872 (22.15)	.320 (8.13)	A33537-ND◆	4.53	4.08	5-104656-3
40	1.122 (28.50)	.320 (8.13)	A29137-ND	6.54	5.89	104656-4
40	1.122 (28.50)	.320 (8.13)	A33538-ND◆	6.12	5.51	5-104656-4
50	1.372 (34.85)	.320 (8.13)	A33539-ND◆	6.81	6.13	5-104656-5
70	1.872 (47.55)	.320 (8.13)	A3113-ND	7.53	6.78	104656-7
70	1.872 (47.55)	.320 (8.13)	A33540-ND◆	7.05	6.35	5-104656-7
80	2.122 (53.89)	.320 (8.13)	A99315-ND◆	8.70	7.83	5-104656-8
100	2.622 (66.60)	.320 (8.13)	A3114-ND	10.83	9.75	1-104656-0
100	2.622 (66.60)	.320 (8.13)	A33541-ND◆	10.14	9.13	6-104656-0
10	.372 (9.44)	.390 (9.91)	A99316-ND◆	2.52	2.27	5-104693-1
20	.622 (15.80)	.390 (9.91)	A3115-ND	4.44	4.00	104693-2
20	.622 (15.80)	.390 (9.91)	A33542-ND◆	4.17	3.76	5-104693-2
30	.872 (22.14)	.390 (9.91)	A99317-ND◆	5.07	4.57	5-104693-3
40	1.122 (28.49)	.390 (9.91)	A99318-ND◆	5.55	5.00	5-104693-4
50	1.372 (34.85)	.390 (9.91)	A33543-ND◆	7.08	6.38	5-104693-5
70	1.872 (47.55)	.390 (9.91)	A33544-ND◆	7.71	6.94	5-104693-7
80	2.122 (53.89)	.390 (9.91)	A99319-ND◆	8.70	7.83	5-104693-8
100	2.622 (66.60)	.390 (9.91)	A3118-ND	9.78	8.81	1-104693-0
100	2.622 (66.60)	.390 (9.91)	A33545-ND◆	9.15	8.24	6-104693-0
Vertical Dual Row Surface Mount Receptacles						
10	.266 (6.75)	—	A29089-ND	3.71	3.36	104652-1
10	.266 (6.75)	—	A33546-ND◆	3.10	2.81	5-104652-1
20	.516 (13.11)	—	A3103-ND	3.47	3.15	104652-2
20	.516 (13.11)	—	A33547-ND◆	3.50	3.17	5-104652-2
30	.766 (19.46)	—	A29090-ND	5.41	4.90	104652-3
30	.766 (19.46)	—	A32568-ND◆	5.06	4.59	5-104652-3
40	1.176 (29.87)	—	A99320-ND◆	6.84	6.16	5-104652-4
50	1.266 (32.16)	—	A3104-ND	7.29	6.60	104652-5
50	1.266 (32.16)	—	A33548-ND◆	6.78	6.15	5-104652-5
60	1.516 (38.51)	—	A31854-ND◆	7.37	6.68	5-104652-6
70	1.766 (44.86)	—	A3105-ND	8.82	8.00	104652-7
70	1.766 (44.86)	—	A33549-ND◆	8.00	7.25	5-104652-7
80	2.016 (51.21)	—	A29092-ND	9.54	8.64	104652-8
80	2.016 (51.21)	—	A33550-ND◆	8.90	8.07	5-104652-8
100	2.516 (63.91)	—	A31855-ND◆	9.99	9.05	6-104652-0

◆ ***RoHS Compliant***

AMPMODU System 50 Cable to Board Connectors – .050" Spacing

Housing: Black thermoplastic, 94V-0 rated.
Contacts: Copper alloy, plated gold in mating area.

Fig.	Description	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
	Dual Row Receptacle, .025 "Ribbon Cable"						
1	Receptacle IDC	10	.510 (12.95)	A31856-ND	5.22	4.73	2-111196-5
	Receptacle IDC	20	.760 (19.30)	A31857-ND	7.05	6.39	1-111196-8
	Receptacle IDC	24	.860 (21.84)	A31858-ND	7.63	6.92	2-111196-8
	Receptacle IDC	26	.910 (23.11)	A31859-ND	8.24	7.47	2-111196-9
	Receptacle IDC	30	1.010 (25.65)	A31860-ND	8.85	8.02	1-111196-9
	Receptacle IDC	40	1.260 (32.00)	A31861-ND	10.07	9.12	2-111196-0
	Receptacle IDC	50	1.510 (38.35)	A31862-ND	11.26	10.20	2-111196-1
	Receptacle IDC	60	1.760 (44.70)	A31863-ND	11.87	10.76	2-111196-2
	Receptacle IDC	80	2.260 (57.40)	A31864-ND	14.28	12.94	3-111196-3
	Receptacle IDC	100	2.760 (70.10)	A31865-ND	14.89	13.49	2-111196-4
	Dual Row (Figures 2 and 3 Mate with Figure 4)						
2	Protected, Right Angle Header	24	.730 (18.54)	A33551-ND	4.47	4.03	6-104069-2
	Protected, Right Angle Header	30	.880 (22.35)	A31867-ND	6.30	5.67	5-104069-5
	Protected, Right Angle Header	40	1.130 (28.70)	A31868-ND	8.52	7.67	5-104069-6
	Protected, Right Angle Header	50	1.380 (35.05)	A31869-ND	10.53	9.48	5-104069-2
	Protected, Right Angle Header	60	1.630 (41.40)	A31870-ND	12.69	11.43	5-104069-7
	Protected, Right Angle Header	80	2.130 (54.10)	A33552-ND	16.86	15.18	5-104069-3
	Protected, Right Angle Header	100	2.630 (66.80)	A33553-ND	19.14	17.23	6-104069-7
3	Protected, Vertical Header	16	.530 (13.46)	A33554-ND	2.82	2.54	6-104068-0
	Protected, Vertical Header	20	.630 (16.00)	A33555-ND	3.78	3.41	5-104068-1
	Protected, Vertical Header	24	.730 (18.54)	A33556-ND	4.59	4.14	6-104068-1
	Protected, Vertical Header	30	.880 (22.35)	A33557-ND	5.40	4.86	5-104068-3
	Protected, Vertical Header	40	1.130 (28.70)	A32570-ND	7.56	6.81	5-104068-4
	Protected, Vertical Header	50	1.380 (35.05)	A31871-ND	8.73	7.86	5-104068-5
	Protected, Vertical Header	60	1.630 (41.40)	A33558-ND	11.16	10.05	5-104068-6
	Protected, Vertical Header	68	1.830 (46.48)	A35051-ND	11.85	10.67	6-104068-8
	Protected, Vertical Header	80	2.130 (54.10)	A33559-ND	13.89	12.51	6-104068-6
	Protected, Vertical Header	100	2.630 (66.80)	A33560-ND	19.20	17.28	6-104068-7
4	Vertical Receptacle	20	.544 (13.82)	A31872-ND	3.45	3.12	5-104078-1
	Vertical Receptacle	24	.644 (16.36)	A33561-ND	4.03	3.65	5-104078-9
	Vertical Receptacle	30	.794 (20.17)	A33562-ND	5.19	4.71	5-104078-4
	Vertical Receptacle	40	1.044 (26.52)	A31873-ND	6.89	6.24	5-104078-2
	Vertical Receptacle	50	1.294 (32.87)	A31874-ND	8.61	7.80	5-104078-5
	Vertical Receptacle	60	1.544 (39.22)	A33563-ND	10.07	9.12	5-104078-6
	Vertical Receptacle	80	2.044 (51.92)	A32571-ND	13.83	12.53	5-104078-7
	Vertical Receptacle	100	2.544 (64.62)	A33564-ND	17.28	15.65	5-104078-8
	Single Row						
5	Protected, Right Angle Thru-Hole Header	4	.330 (8.38)	A33565-ND	1.83	1.65	5-104074-7
	Protected, Right Angle Thru-Hole Header	6	.430 (10.92)	A99604-ND	1.86	1.68	5-104074-8
	Protected, Right Angle Thru-Hole Header	8	.530 (13.46)	A31851-ND	2.10	1.89	6-104074-0
	Protected, Right Angle Thru-Hole Header	10	.630 (16.00)	A31852-ND	2.46	2.22	5-104074-1
	Protected, Right Angle Thru-Hole Header	12	.730 (18.54)	A33566-ND	2.94	2.65	6-104074-1
	Protected, Right Angle Thru-Hole Header	15	.880 (22.35)	A31853-ND	3.75	3.38	5-104074-3
	Protected, Right Angle Thru-Hole Header	20	1.130 (28.70)	A33567-ND	4.86	4.38	5-104074-4
6	Thru-Hole Header	4	.330 (8.38)	A33568-ND	.78	.71	5-104071-7
	Thru-Hole Header	6	.430 (10.92)	A33569-ND	1.38	1.25	5-104071-8
	Thru-Hole Header	12	.730 (18.54)	A32569-ND	2.49	2.25	6-104071-1
	Thru-Hole Header	20	1.130 (28.70)	A33570-ND	4.44	4.00	5-104071-4
	Thru-Hole Header	25	1.380 (35.05)	A33571-ND	5.76	5.19	5-104071-5

Fig. 1

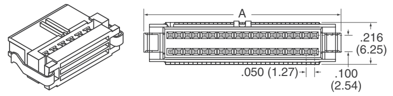

Fig. 2 **(Figures 2 & 3 mate with Figure 4)**

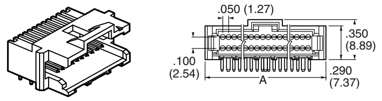

Fig. 3

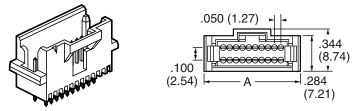

Fig. 4

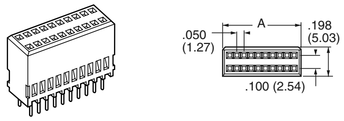

Fig. 5

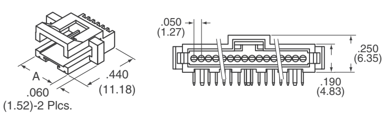

Fig. 6

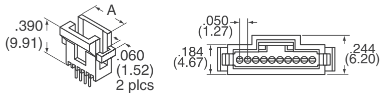

AMP SMT Headers and Receptacles – .050" X .100"

Housing: Glass filled, black thermoplastic, 94V-0 rated.
Contacts: Phosphor bronze, plated gold in mating area.

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
	Vertical Dual Row Surface Mount Headers				
20	.630 (16.00)	A31875-ND	3.87	3.49	5-104549-2
30	.880 (22.35)	A31876-ND	5.67	5.11	5-104549-5
40	1.130 (28.70)	A31877-ND	6.90	6.21	5-104549-6
50	1.380 (35.05)	A31878-ND	10.38	9.35	5-104549-7
100	2.630 (66.80)	A31879-ND	17.31	15.58	6-104549-0
	Vertical Dual Row Surface Mount Receptacles				
20	.544 (13.82)	A33572-ND	4.11	3.72	5-104550-2
30	.794 (20.17)	A33573-ND	5.30	4.80	5-104550-4
40	1.044 (26.52)	A31880-ND	8.32	7.54	5-104550-5
50	1.294 (32.87)	A31881-ND	10.18	9.22	5-104550-6
100	2.544 (64.62)	A33574-ND	18.13	16.42	5-104550-9

Vertical Dual Row Surface Mount Header

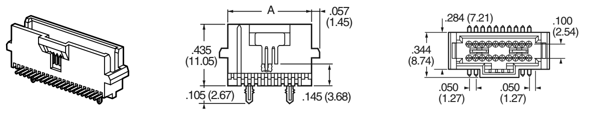

Vertical Dual Row Surface Mount Receptacle

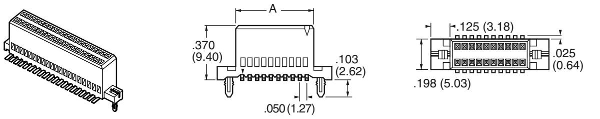

Tyco Electronics
Authorized Distributor

0.8mm FH Connectors

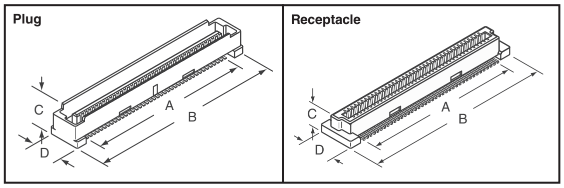

Tyco Electronics 0.8mm FH surface-mount connectors are designed for parallel board stacking applications.
Features: Plating Type: 8µ" Au
Ratings:
- Voltage Rating: 100 VAC
- Current Rating: 0.5A
- Operating Temperature: -40°C ~ 125°C

Stack Height◊ (mm)	No. of Positions	Dimensions — mm A	B	C	D	Digi-Key Part No.	Price Each 1	25	Tape & Reel‡ Qty.	Pricing	Tyco Electronics Part No.
Free Height Vertical Plugs											
5mm Height											
5, 9, 13, and 17	40	15.20	21.80	4.6	6.0	A33838CT-ND†	3.12	2.60	900	1404.00	5177986-1
	60	23.20	29.80	4.6	6.0	A99196CT-ND†	4.56	3.80	900	2511.00	5177986-2
	80	31.20	37.80	4.6	6.0	A99197CT-ND†	5.58	4.65	900	2511.00	5177986-3
	100	39.20	45.80	4.6	6.0	A99198CT-ND†	6.90	5.75	650	2481.70	5177986-4
	120	47.20	53.80	4.6	6.0	A99199CT-ND†	8.25	6.88	650	2967.25	5177986-5
	140	55.20	61.80	4.6	6.0	A99200CT-ND†	9.60	8.00	650	3452.80	5177986-6
	160	63.20	69.80	4.6	6.0	A99201CT-ND†	11.49	9.58	650	4132.57	5177986-8
	200	79.20	85.80	4.6	6.0	A99188-ND§	12.46	11.28	—	—	1-5177984-0
6mm Height											
6, 10, 14, and 18	40	15.20	21.80	5.6	6.0	A99202CT-ND†	2.78	2.52	800	1394.40	1-5177986-1
	60	23.20	29.80	5.6	6.0	A99203CT-ND†	4.08	3.70	800	2045.12	1-5177986-2
	80	31.20	37.80	5.6	6.0	A99204CT-ND†	4.98	4.52	800	2496.64	1-5177986-3
	100	39.20	45.80	5.6	6.0	A99205CT-ND†	6.99	6.30	550	1922.25	1-5177986-4
	120	47.20	53.80	5.6	6.0	A99206CT-ND†	8.34	7.51	550	2293.50	1-5177986-5
	140	55.20	61.80	5.6	6.0	A99207CT-ND†	9.69	8.73	550	2664.75	1-5177986-6
	160	63.20	69.80	5.6	6.0	A99224-ND§	10.07	9.12	—	—	5179029-8
	200	79.20	85.80	5.6	6.0	A99225-ND§	12.59	11.40	—	—	1-5179029-0
7mm Height											
7, 11, 15, and 19	40	15.20	21.80	6.6	6.0	A99208CT-ND†	3.18	2.87	700	986.86	2-5177986-1
	60	23.20	29.80	6.6	6.0	A99209CT-ND†	4.65	4.19	700	1443.05	2-5177986-2
	80	31.20	37.80	6.6	6.0	A99210CT-ND†	5.67	5.11	700	1759.59	2-5177986-3
	100	39.20	45.80	6.6	6.0	A99211CT-ND†	8.23	5.64	450	1755.45	2-5177986-4
	120	47.20	53.80	6.6	6.0	A35089CT-ND†	9.84	6.75	450	2099.07	2-5177986-5
	140	55.20	61.80	6.6	6.0	A99212CT-ND†	11.41	7.83	450	2435.22	2-5177986-6
	160	63.20	69.80	6.6	6.0	A99213CT-ND†	13.65	9.36	450	2913.30	2-5177986-8
	200	79.20	85.80	6.6	6.0	A99226-ND§	12.72	11.52	—	—	1-5179030-0
8mm Height											
8, 12, 16, and 20	40	15.20	21.80	7.6	6.0	A99214CT-ND†	3.21	2.57	600	1065.72	3-5177986-1
	60	23.20	29.80	7.6	6.0	A99215CT-ND†	4.71	3.77	600	1563.72	3-5177986-2
	80	31.20	37.80	7.6	6.0	A99216CT-ND†	5.73	4.59	600	1902.36	3-5177986-3
	100	39.20	45.80	7.6	6.0	A99217CT-ND†	6.28	5.69	400	1573.68	3-5177986-4
	120	47.20	53.80	7.6	6.0	A99218CT-ND†	7.53	6.82	400	1885.76	3-5177986-5
	140	55.20	61.80	7.6	6.0	A99219CT-ND†	8.75	7.92	400	2191.20	3-5177986-6
	160	63.20	69.80	7.6	6.0	A99220CT-ND†	10.44	9.46	400	2616.16	3-5177986-8
	200	79.20	85.80	7.6	6.0	A99227-ND§	12.83	11.62	—	—	1-5179031-0
Receptacles											
5mm Height											
5, 6, 7, and 8	40	15.20	21.80	3.75	6.0	A99189CT-ND†	3.12	2.60	1,000	1560.00	5177985-1
	60	23.20	29.80	3.75	6.0	A99190CT-ND†	4.56	3.80	1,000	2280.00	5177985-2
	80	31.20	37.80	3.75	6.0	A99191CT-ND†	5.58	4.65	1,000	2790.00	5177985-3
	100	39.20	45.80	3.75	6.0	A99192CT-ND†	6.90	6.21	700	2141.30	5177985-4
	120	47.20	53.80	3.75	6.0	A99193CT-ND†	8.25	7.43	700	2560.25	5177985-5
	140	55.20	61.80	3.75	6.0	A99194CT-ND†	9.60	8.64	700	2979.20	5177985-6
	160	63.20	69.80	3.75	6.0	A99195CT-ND†	11.49	10.35	700	3565.73	5177985-8
	200	79.20	85.80	3.75	6.0	A99187-ND§	12.46	11.28	—	—	1-5177983-0
9mm Height											
9, 10, 11, and 12	40	15.20	21.80	7.75	6.8	A99228CT-ND†	3.18	2.65	500	879.80	5-5179180-1
	60	23.20	29.80	7.75	6.8	A99229CT-ND†	4.65	3.88	500	1286.50	5-5179180-2
	80	31.20	37.80	7.75	6.8	A99230CT-ND†	5.67	4.73	500	1568.70	5-5179180-3
	100	39.20	45.80	7.75	6.8	A99231CT-ND†	7.05	5.88	400	1560.40	5-5179180-4
	120	47.20	53.80	7.75	6.8	A99232CT-ND†	8.43	7.03	400	1865.84	5-5179180-5
	140	55.20	61.80	7.75	6.8	A99233CT-ND†	9.78	8.15	400	2164.64	5-5179180-6
	160	63.20	69.80	7.75	6.8	A99221-ND§	10.18	9.22	—	—	5-5179009-8
	200	79.20	85.80	7.75	6.8	A99222-ND§	12.72	11.52	—	—	6-5179009-0
13mm Height											
13, 14, 15, and 16	40	15.20	21.80	11.75	6.8	A99234CT-ND†	3.24	2.70	200	358.56	5084616-1
	60	23.20	29.80	11.75	6.8	A99235CT-ND†	4.74	3.95	200	524.56	5084616-2
	80	31.20	37.80	11.75	6.8	A99236CT-ND†	5.79	4.83	200	640.76	5084616-3
	100	39.20	45.80	11.75	6.8	A99237CT-ND†	7.17	5.98	200	793.48	5084616-4
	120	47.20	53.80	11.75	6.8	A99238CT-ND†	8.58	7.15	200	949.52	5084616-5
	140	55.20	61.80	11.75	6.8	A99239CT-ND†	9.99	8.33	200	1105.56	5084616-6
	160	63.20	69.80	11.75	6.8	A99240CT-ND†	11.94	9.95	200	1321.36	5084616-8
	200	79.20	85.80	11.75	6.8	A99223-ND§	12.96	11.74	—	—	6-5179010-0
17mm Height											
17, 18, 19, and 20	40	15.20	21.80	15.75	6.8	A99241-ND§	2.70	2.45	—	—	5-1735480-1
	60	23.20	29.80	15.75	6.8	A99242-ND§	4.08	3.70	—	—	5-1735480-2
	80	31.20	37.80	15.75	6.8	A99243-ND§	5.04	4.56	—	—	5-1735480-3
	100	39.20	45.80	15.75	6.8	A99244-ND§	6.28	5.69	—	—	5-1735480-4
	120	47.20	53.80	15.75	6.8	A99245-ND§	7.55	6.84	—	—	5-1735480-5
	140	55.20	61.80	15.75	6.8	A99246-ND§	8.80	7.97	—	—	5-1735480-6
	160	63.20	69.80	15.75	6.8	A99247-ND§	10.57	9.58	—	—	5-1735480-8
	200	79.20	85.80	15.75	6.8	A99248-ND§	13.22	11.98	—	—	6-1735480-0

† Cut Tape ‡ For Tape and Reel Part Number, Change CT-ND to TR-ND. § Tube ◊ Plug Height + Receptacle Height - 5mm = Stack Height in mm.

1.0mm FH Connectors (IEEE 1386)

Ratings: • Current Rating: 1.0A per contact • Contact Resistance: 30mΩ maximum (initial) • Durability: tested to 100 mating cycles minimum

Stack Height (mm)	Number of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	Tape & Reel‡ Qty.	Pricing	Tyco Electronics Part No.
Plugs - Module Side									
10, 12, 13, and 15	64	31	35.9	A99321CT-ND	5.79	4.83	400	1281.52	5146888-1
9, 11, and 14	64	31	35.9	A99322CT-ND	5.79	4.83	450	1441.71	5146898-1
Receptacles - Base Board Side									
14 and 15	64	31	35.9	A99323CT-ND	4.89	4.08	300	811.74	5146896-1
13	64	31	35.9	A99324CT-ND	4.89	4.08	400	1082.32	5146895-1
11 and 12	64	31	35.9	A99325CT-ND	4.89	4.08	450	1217.61	5146894-1
8, 9 and 10	64	31	35.9	A99326CT-ND	4.89	4.08	650	1758.77	5146893-1

‡ For Tape and Reel Part Number, Change CT-ND to TR-ND.

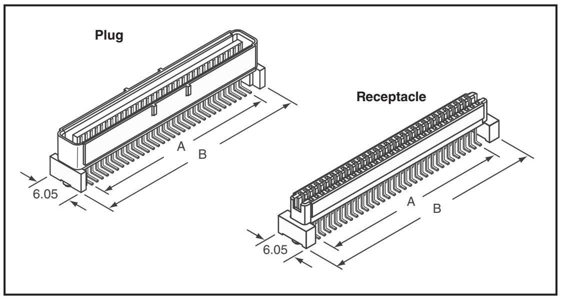

Tyco Electronics
Authorized Distributor

Board to Board 2.50mm Mini-Match Connectors

Features: • Color: Green • Centerline: 2.50mm (0.098 inches) • Flammability Rating: UL 94V-0 • Contact Material: Brass • Contact Plating: Tin • Housing Material: Thermoplastic Polyester • PCB Mount **Specifications:** Current Rating: 3A @ 30°C

Fig.	No. of Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
			Vertical Headers				
1	3	7.5	A36388-ND	.58	.53	.42	5164713-3
	4	10.0	A36389-ND	.68	.62	.49	5164713-4
	5	12.5	A36390-ND	.71	.65	.52	5164713-5
	6	15.0	A36391-ND	.81	.74	.59	5164713-6
	7	17.5	A36392-ND	.92	.83	.66	5164713-7
	8	20.0	A36393-ND	1.35	1.22	.98	5164713-8
	9	22.5	A36394-ND	1.29	1.16	.93	5164713-9
	10	25.0	A36395-ND	1.79	1.61	1.28	1-5164713-0
	11	27.5	A36396-ND	1.59	1.43	1.14	1-5164713-1
	12	30.0	A36397-ND	2.19	1.98	1.58	1-5164713-2
			Right Angle Receptacles				
2	3	7.5	A36378-ND	.46	.42	.30	5164711-3
	4	10.0	A36379-ND	.73	.67	.47	5164711-4
	5	12.5	A36380-ND	.77	.70	.50	5164711-5
	6	15.0	A36381-ND	.99	.90	.64	5164711-6
	7	17.5	A36382-ND	1.18	1.08	.76	5164711-7
	8	20.0	A36383-ND	1.23	1.12	.79	5164711-8
	9	22.5	A36384-ND	1.70	1.54	1.10	5164711-9
	10	25.0	A36385-ND	1.89	1.72	1.22	1-5164711-0
	11	27.5	A36386-ND	2.08	1.89	1.34	1-5164711-1
	12	30.0	A36387-ND	1.84	1.67	1.19	1-5164711-2

Fig. 1

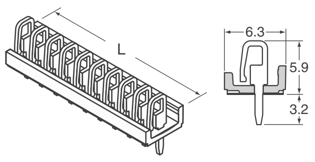

Fig. 2

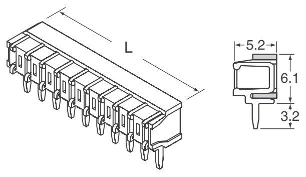

HIROSE ELECTRIC CO., LTD.

High Density I/O Connectors

DXM series high-density I/O connectors with bellow contacts have an interconnect design to ensure positive locking, effortless coupling, terminal protection and EMI reduction in a miniaturized and rugged package. DXM series offer one of the most varied and complete lines of High-Density connectors in the world.

Applications: Office, factory and home automation, computers, measurement, communication and control equipment, and other commercial applications needing high density interconnections.

Features: • 1.27mm (0.050") contact spacing conserves valuable board space and permits ultra-high density designs • Bellow contacts create smooth and precise mating • Unique shell design assures first make/last break grounding and overall noise protection • IDC termination allows quick and low cost termination to AWG #28 wires • Backshell and receptacle shell are made of diecast zinc alloy or stainless steel to reduce the penetration of external EMI noise • Overmold backshell provided for EDS protection is available in "one-touch" locking and "screw" locking • Termination methods are available in IDC, soldering, right angle dip, straight dip and SMT

Specifications: • Current capacity: 0.5A • Rated voltage: AC125V • Insulation resistance: 250MΩ minimum @ 100VDC • Withstanding voltage: AC 300Vr.m.s. for 1 minute

Fig.	No. of Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	14	17.09	H10049-ND◆	8.60	7.48	5.99	DX30AM-14P
	20	20.90	H10050-ND◆	8.84	7.48	5.61	DX30AM-20P
	36	31.06	H10051-ND◆	9.98	8.68	6.95	DX30AM-36P
	50	39.95	H10052-ND◆	11.82	10.28	8.23	DX30AM-50P
	68	51.38	H10053-ND◆	14.68	13.58	11.38	DX30AM-68P
	80	59.00	H10054-ND◆	14.91	14.04	12.28	DX30AM-80P
	100	71.70	H10048-ND◆	15.81	14.88	13.02	DX30AM-100P
2	20	20.90	H10063-ND◆	10.19	8.86	7.09	DX40M-20P
	26	24.71	H10064-ND◆	11.18	9.72	7.78	DX40M-26P
	36	31.06	H10065-ND◆	10.98	10.16	8.51	DX40M-36P
	50	39.95	H10066-ND◆	12.80	11.84	9.92	DX40M-50P
	100	71.70	H10062-ND◆	19.80	19.14	17.16	DX40M-100P
3	14	29.54	H11339-ND◆	5.34	4.42	3.32	DX10G1M-14S(50)
	14	29.54	H11335-ND◆†	4.64	3.84	2.88	DX10G1M-14SE(50)
	20	33.35	H11330-ND◆	5.86	4.85	3.64	DX10GM-20SE(50)
	26	37.16	H11336-ND◆†	4.93	4.08	3.06	DX10G1M-26SE(50)
	36	43.51	H11341-ND◆	6.29	5.21	3.91	DX10G1M-36S(50)
	36	43.51	H11337-ND◆†	6.99	5.79	4.34	DX10G1M-36SE(50)
	50	52.40	H11338-ND◆†	6.58	5.45	4.09	DX10G1M-50SE(50)
	68	63.83	H11334-ND◆	8.26	7.18	5.75	DX10GM-68S(50)
4	20	33.35	H11320-ND◆	9.06	7.88	6.31	DX20M-20S(50)
	26	37.16	H10044-ND	9.02	7.84	6.28	DX20M-26S
	26	37.16	H11321-ND◆	9.73	8.46	6.77	DX20M-26S(50)
	36	43.51	H11322-ND◆	10.21	8.88	7.11	DX20M-36S(50)
	50	52.40	H10046-ND	10.51	9.14	7.32	DX20M-50S
	50	52.40	H11323-ND◆	11.36	9.88	7.91	DX20M-50S(50)
	68	63.83	H11324-ND◆	11.46	10.61	8.89	DX20M-68S(50)
5	68	63.83	H11316-ND◆	12.97	12.21	10.69	DX10BM-68S(50)
	80	71.45	H11317-ND◆	14.52	13.67	11.96	DX10BM-80S(50)
6	100	84.15	H11327-ND◆	15.64	14.72	12.88	DX20BM-100S(50)
7	100	84.95	H10055-ND◆	12.04	11.14	9.34	DX30M-100-CV1
8	14	25.79	H10056-ND◆	5.37	4.44	3.33	DX30M-14-CV(10)
	20	29.60	H10057-ND◆	4.90	4.06	3.05	DX30M-20-CV(10)
	26	33.50	H10058-ND◆	5.60	4.64	3.48	DX30M-26-CV(10)
	36	39.80	H10059-ND◆	5.60	4.64	3.48	DX30M-36-CV(10)
	50	48.70	H10060-ND◆	6.99	5.79	4.34	DX30M-50-CV(10)
	68	60.13	H10061-ND◆	6.66	5.64	4.23	DX30M-68-CV(10)

◆ ***RoHS Compliant*** † With Board Locks

Fig. 1 – Plug Discrete IDC

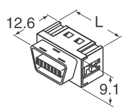

Fig. 2 – Plug Solder Type

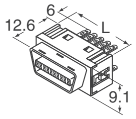

Fig. 3 – Board Lock Pin Harpoon Type

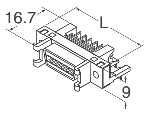

Fig. 4 – Receptacle Straight Type

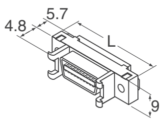

Fig. 5 – Board Screw on Type

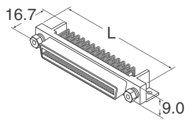

Fig. 6 – Receptacle Straight Type

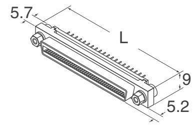

Fig. 7 – Backshell Stainless Steel

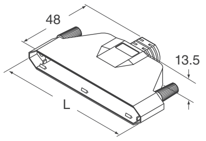

Fig. 8 – Backshell Plastic, Beige

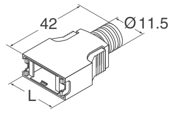

EDAC INC Rack and Panel Connectors — 516 Series

Features:
• UL Recognized • Plug and receptacle in 20, 38, 56, 90 or 120 contact sizes • Contact termination options include crimp, P.C. tail, wire hole and wire wrap • Mating and unmating simplified with use of actuating screws • Contacts suitable for either plug or receptacle

Specifications: • Insulator Material: Diallyl Phthalate, Color: Green, or Polycarbonate Color: Grey • Contact Material: Phosphor Bronze Alloy CA-510 • Contact Plating: Gold over nickel for entire contact • Cover Material: Die-cast zinc, finished with grey enamel paint • Current Rating: 8.5 Amperes • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 2000VAC rms at sea level • Insulation Resistance: 5000MΩ minimum • Operating Temperature: -65°C ~ 125°C • Insertion and Withdrawal Force: 2 ~ 16 oz. (0.56 ~ 4.45 N) per contact position

Dimensions in mm

Fig. 1 – 20 Pin Plug and Receptacle, Grey

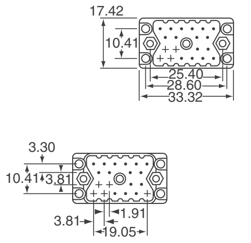

Fig. 2 – 38 Pin Plug and Receptacle, Grey

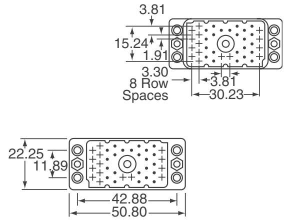

Fig. 3 – 56 Pin Plug and Receptacle, Grey

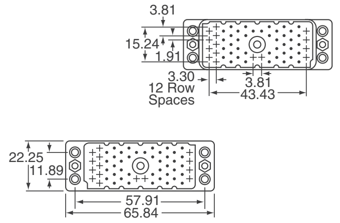

Fig. 4 – 90 Pin Plug and Receptacle, Grey

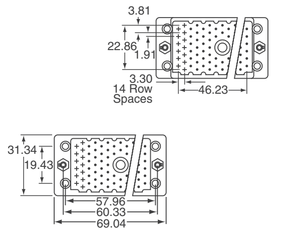

Fig. 5 – 120 Pin Plug and Receptacle, Green

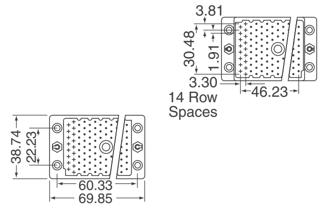

Fig. 6 – Metal Connector Cover

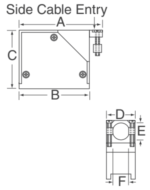

No. of Contacts	Dimensions - mm					
	A	B	C	D	E	F
20	39.09	33.66	23.01	17.42	11.33	12.45
38	56.03	50.95	39.78	22.23	18.29	14.61
56	71.17	66.09	39.78	22.23	18.29	14.61
90	79.20	69.04	45.09	31.34	22.35	22.86
120	80.65	69.85	51.31	38.89	22.61	27.43

Fig. 7 – Contacts

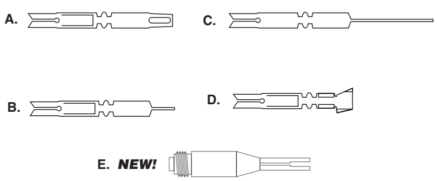

Fig.	No. of Contacts	Description	Digi-Key Part No.	Pricing 1	10	EDAC Part No.
1	20	Plug with Screw	151-1024-ND	11.16	99.00	516-020-000-301
	20	Plug with Nut	151-1025-ND	7.69	68.20	516-020-000-302
	20	Receptacle with Screw	151-1026-ND	10.08	89.38	516-020-000-401
	20	Receptacle with Nut	151-1027-ND	8.03	71.23	516-020-000-402
2	38	Plug with Screw	151-1028-ND	10.63	94.33	516-038-000-301
	38	Plug with Nut	151-1029-ND	7.69	68.20	516-038-000-302
	38	Receptacle with Screw	151-1030-ND	10.63	94.33	516-038-000-401
	38	Receptacle with Nut	151-1031-ND	7.69	68.20	516-038-000-402
3	56	Plug with Screw	151-1032-ND	10.97	97.35	516-056-000-301
	56	Plug with Nut	151-1033-ND	8.03	71.23	516-056-000-302
	56	Receptacle with Screw	151-1034-ND	10.97	97.35	516-056-000-401
	56	Receptacle with Nut	151-1035-ND	8.96	79.48	516-056-000-402
4	90	Plug with Screw	151-1036-ND	24.68	218.90	516-090-000-301
	90	Plug with Nut	151-1037-ND	9.61	85.25	516-090-000-302
	90	Receptacle with Screw	151-1038-ND	23.99	212.85	516-090-000-401
	90	Receptacle with Nut	151-1039-ND	9.77	86.63	516-090-000-402
5	120	Plug with Screw	151-1040-ND	26.10	231.55	516-120-000-101

Fig.	No. of Contacts	Description	Digi-Key Part No.	Pricing 1	10	EDAC Part No.
5	120	Receptacle with Nut	151-1043-ND	13.21	117.15	516-120-000-202
6	—	Cover for 20 Position	151-1044-ND	18.45	163.63	516-230-520
	—	Cover for 38 Position	151-1045-ND	19.31	171.33	516-230-538
	—	Cover for 56 Position	151-1046-ND	32.67	289.85	516-230-556
	—	Cover for 90 Position	151-1047-ND	22.07	195.80	516-230-590
	—	Cover for 120 Position	151-1048-ND	27.50	243.93	516-230-512
7A	—	Solder Eyelet	151-1049-ND	.28	2.48	516-290-500
7B	—	Soldertail	151-1050-ND	.28	2.48	516-290-520
7C	—	Wirewrap	151-1051-ND	.37	3.30	516-290-541
7D	—	Crimp Type	151-1052-ND	.28	2.48	516-290-590
—	—	Crimp Tool	151-1058-ND	286.19	—	516-280-201
	—	Extraction Tool	151-1059-ND	117.74	—	516-280-300
	—	Insertion Tool	151-1124-ND	52.51	—	516-280-400
NEW! Tools NEW!						
7E	Replacement Extraction Tool Tip		151-1129-ND	60.85/1		516-280-300-001

Telecom Connectors — B57 Series

Specifications:
• Mate with other industry standard telecom connectors • Blue (50 pin) or black (64-pin) thermoplastic polyester • Contact Material: Phosphor Bronze • Contact Plating: Gold over nickel plate for the mating area • Shell Material: Nickel-plated steel • Operating Temperature: -55°C ~ 125°C • Current Rating: 2A • Contact Resistance: 30mΩ maximum • Insulator rated UL94 V-0 • Insulation Resistance: 5000MΩ minimum

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	Receptacle, Vertical, 50-Pos., Pressfit	151-1096-ND	2.84	—	—	B57-050-220-202
	Receptacle, Vertical, 50-Pos., Thru-Hole, PCB	151-1097-ND	3.47	3.08	2.47	B57-050-221-202
2	Receptacle, Right Angle, 50-Pos., Thru-Hole	151-1098-ND	8.84	7.84	6.27	B57-050-260-202

Dimensions in Inches (mm)

Fig. 1

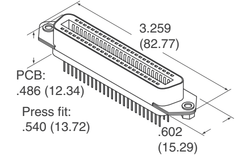

Fig. 2

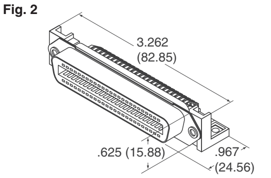

AVX INTERCONNECT Rack and Panel Connectors

Features:
• Insertable/Removable contacts • Exceptional versatility • Actuating screw facilitates mating and unmating, locks mated connectors together • Plug and receptacle contacts are protected from mishandling • Guide pins and sockets ensure correct alignment when mating • UL recognized polyester material • CSA acceptable polyester material

Specifications: • Current rating: 8A maximum • Contact resistance: 6mΩ maximum

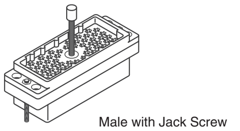
Male with Jack Screw

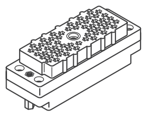
Female with Fixed Nut

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
20	Male with Jack Screw	478-4829-ND	30.54	26.56	21.25	008016020000601
	Female with Fixed Nut	478-4830-ND	13.34	11.60	9.28	008016020000607
38	Male with Jack Screw	478-4831-ND	21.92	19.06	15.25	008016038000601
56	Male with Jack Screw	478-4833-ND	17.16	14.92	11.94	008016056000601
	Female with Fixed Nut	478-4834-ND	9.91	8.62	6.90	008016056000607
90	Male with Jack Screw	478-4835-ND	71.55	62.22	49.78	008016090000601
	Female with Fixed Nut	478-4836-ND	15.34	13.34	10.68	008016090000607

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
120	Female with Fixed Nut	478-4838-ND	15.69	13.64	10.92	008016120000607
Contacts and Tools						
—	Crimp Contact, 10µ" Gold	478-4827-ND	.85	.60	.46	608017031300339
—	Solder Contact .25µ" Gold	478-5715-ND ***NEW!***	.93	.66	.50	608017051300339
—	Crimp Tool	478-4828-ND	266.91	—	—	067852010000000
—	Extraction Tool	478-4839-ND	98.14	—	—	061877040000000
—	Insertion Tool	478-4840-ND	77.81	—	—	061742040000000

Tyco Electronics
Authorized Distributor

AMP CHAMP® Parallel Interface Connectors

For Discrete Wire Termination

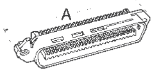

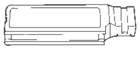

90° Strain Relief

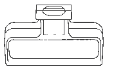

180° Strain Relief

No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
22 AWG, Solid or Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24234-ND	4.93	3.94	552300-1
24	2.175 (55.25)	Plug, Screw Lock	A24235-ND	2.65	2.12	552301-1
	1.951 (49.56)	Plug, Bail Lock	A24236-ND	5.53	4.42	552317-1
36	2.462 (62.53)	Plug, Bail Lock	A24237-ND	6.73	5.38	552318-1
50	3.280 (83.31)	Plug, Screw Lock	A24238-ND	3.98	3.18	552173-1
	3.056 (77.62)	Plug, Bail Lock	A24239-ND	9.28	7.42	552319-1
	3.280 (83.31)	Receptacle, Screw or Bail Lock	A24240-ND	6.05	4.84	552064-1
64	3.875 (98.43)	Plug, Screw Lock	A24241-ND	6.23	4.98	552303-1
Large Insulation Wire Connectors, 22 AWG Solid or Stranded — RoHS Compliant						
50	3.280 (83.31)	Plug, Screw Lock	A24258-ND	7.20	5.76	556039-1
	3.280 (83.31)	Receptacle, Screw or Bail Lock	A24259-ND	7.80	6.24	555227-1
24 ~ 26 AWG, Solid or 24 AWG Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24243-ND	4.75	3.80	552282-1
	1.526 (38.76)	Plug, Bail Lock	A24244-ND	5.33	4.26	552270-1
	1.750 (44.45)	Receptacle, Screw or Bail Lock	A24245-ND	4.23	3.38	552312-1
	1.750 (44.45)	Receptacle, Panel Mt., Screw or Bail Lock	A24246-ND	5.78	4.62	2-552271-1
24	2.175 (55.25)	Plug, Screw Lock	A24247-ND	5.38	4.30	552283-1
	1.951 (49.56)	Plug, Bail Lock	A1502-ND	4.60	3.68	552272-1
	2.175 (55.25)	Receptacle, Screw or Bail Lock	A24248-ND	5.95	4.76	552313-1
	2.175 (55.25)	Receptacle, Panel Mt., Screw or Bail Lock	A1508-ND	5.78	4.62	2-552273-1
36	2.685 (68.20)	Plug, Screw Lock	A24249-ND	4.43	3.54	552284-1
	2.462 (62.53)	Plug, Bail Lock	A1503-ND	4.46	3.58	552274-1
	2.685 (68.20)	Receptacle, Screw or Bail Lock	A24250-ND	5.38	4.30	552314-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1540-ND	2.62	2.10	229974-1
	3.056 (77.62)	Receptacle, Screw Lock, Thick Flange	A1541-ND	2.74	2.19	229975-1
	3.280 (83.31)	Plug, Bail Lock	A1542-ND	3.20	2.56	552032-1
	3.280 (83.31)	Receptacle, Panel Mt., Screw or Bail Lock	A1543-ND	3.22	2.58	2-552001-1
64	3.875 (98.43)	Plug, Screw Lock	A24252-ND	4.85	3.88	552285-1
	3.651 (92.74)	Plug, Bail Lock	A24253-ND	3.25	2.61	552276-1
	3.875 (98.43)	Receptacle, Screw or Bail Lock	A24254-ND	5.98	4.78	552315-1
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A24255-ND	5.25	4.20	2-552277-1
26 ~ 28 AWG, Stranded — RoHS Compliant						
36	2.462 (62.53)	Plug, Bail Lock	A1535-ND	5.45	4.36	552470-1
	2.685 (68.20)	Receptacle, Panel Mt., Screw or Bail Lock	A1537-ND	10.68	8.54	2-552475-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1544-ND	3.49	2.80	552390-1
	3.280 (83.31)	Receptacle, Screw Lock, Thick Flange	A1545-ND	3.78	3.02	552391-1
64	3.875 (98.43)	Plug, Screw Lock	A24256-ND	3.70	2.96	552488-1
Integral Locking Latch, Pre-assembled — RoHS Compliant						
50	3.280 (83.31)	Receptacle, Black	A33575-ND	5.63	4.50	5553921-1
64	3.875 (98.43)	Receptacle	A33576-ND	6.73	5.38	5554381-2
Accessories						
Dust Covers — RoHS Compliant						
24	—	Position, Receptacle, Red	A24285-ND	.97	.78	229969-4
36	—	Position, Receptacle, Red	A24286-ND	.84	.68	229969-3
50	—	Position, Receptacle, Red	A24287-ND	.78	.39	229969-1
64	—	Position, Receptacle, Red	A24289-ND	.75	.60	229969-2
50	—	Position, Plug, Blue	A24194-ND	.49	.39	229968-1
64	—	Position, Plug, Blue	A24288-ND	.75	.60	229968-2
Hardware Kits — RoHS Compliant						
Screw Lock Hardware Kit			A33577-ND	4.60	3.68	5552568-1
Bail Lock Hardware Kit			A33578-ND	3.88	3.10	5552567-1
Tools						
Insertion Tool for CHAMP IDC Connector			A1528-ND	286.20	—	229764-2
T-Handle Wire Insertion Tool			A1529-ND	7.66	—	229384-1
Portable Hand Operated Tool (MI-1)			A24382-ND	1069.20	—	229378-1
Palm Grip Tool			A24383-ND	349.65	—	229451-1

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
Strain Relief Covers					
180° Snap-On — RoHS Compliant					
14	.175 - .220 (4.45 - 5.59)	A24264-ND	3.26	2.62	552079-1
	.265 - .310 (6.73 - 7.87)	A24265-ND	3.04	2.44	2-552079-1
24	.230 - .280 (5.84 - 7.11)	A24266-ND	2.19	1.75	552076-1
	.280 - .320 (7.11 - 8.13)	A1506-ND	3.24	2.60	1-552076-1
	.320 - .380 (8.13 - 9.65)	A24267-ND	2.60	2.08	2-552076-1
36	.290 - .360 (7.37 - 9.14)	A24268-ND	2.38	1.91	552073-1
	.360 -.430 (9.14 - 10.92)	A1507-ND	2.27	1.82	552073-5
	.430 - .500 (10.92 - 12.70)	A24269-ND	3.22	2.58	552073-6
50	.330 - .380 (8.38 - 9.65)	A24270-ND	3.06	2.46	3-552008-1
	.380 - .430 (9.65 - 10.92)	A24271-ND	2.82	2.26	2-552008-1
	.430 -.490 (10.92 - 12.45)	A1548-ND	3.61	3.23	552008-1
	.480 - .550 (12.19 - 13.97)	A24272-ND	3.24	2.60	4-552008-1
64	.480 - .540 (12.19 - 13.72)	A24274-ND	2.73	2.19	552082-1
90° Snap-On — RoHS Compliant					
14	.185 - .230 (4.70 - 5.84)	A24275-ND	3.43	2.75	552412-1
	.250 - .300 (6.35 - 7.62)	A24276-ND	1.95	1.56	1-552412-1
24	.250 - .300 (6.35 - 7.62)	A1538-ND	1.76	1.42	552413-1
	.305 - .360 (7.75 - 9.14)	A24277-ND	3.18	2.55	1-552413-1
36	.330 - .380 (8.38 - 9.65)	A24278-ND	2.81	2.25	3-552414-1
50	.340 - .400 (8.64 - 10.16)	A24279-ND	1.50	1.20	552014-1
	.315 - .415 (8.00 - 10.54)	A24280-ND	.99	.79	1-552011-1
	.415 - .465 (10.54 - 11.81)	A1549-ND	.99	.79	552011-1
	.475 - .540 (12.07 - 13.72)	A24281-ND	1.86	1.49	552731-1
64	.410 - .475 (10.41 - 12.07)	A24282-ND	1.89	1.52	552496-1
	.475 - .540 (12.07 - 13.72)	A24283-ND	1.84	1.47	1-552496-1
	.540 - .605 (13.72 - 15.37)	A24284-ND	1.91	1.53	2-552496-1

No. of Positions	Description	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
Cable to Panel Mount (2 required per assembly) — RoHS Compliant					
24	Snap-On	A24290-ND	1.47	1.18	1-552298-1
50	Snap-On	A24291-ND	.44	.36	1-552027-1
64	Snap-On	A24292-ND	.80	.64	1-552296-1

Vertical Mount

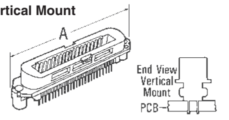

Edge Mount

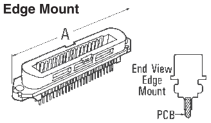

Right Angle

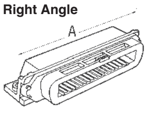

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Vertical Mount Connectors						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1511-ND	6.73	5.38	552235-1
64	3.875 (98.43)	Receptacle, Screw or Bail Lock	A24352-ND	14.98	11.98	552246-1
Vertical Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A31849-ND	7.40	5.92	5552212-1
24	2.175 (55.25)	Plug, Screw Lock	A31838-ND	11.68	9.34	5552221-1
	2.175 (55.25)	Receptacle, Screw or Bail Lock	A31828-ND	9.45	7.56	5552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31829-ND	6.15	4.92	5552235-1
50	3.280 (83.31)	Plug, Screw Lock	A31833-ND	6.38	5.10	5552116-1
	3.280 (83.31)	Receptacle, Screw or Bail Lock	A31834-ND	6.40	5.12	5552118-1
64	3.875 (98.43)	Plug, Screw Lock	A31839-ND	16.23	12.98	5552243-1
	3.875 (98.43)	Receptacle, Screw or Bail Lock	A31840-ND	13.73	10.98	5552246-1
Edge Mount Connectors — RoHS Compliant						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31830-ND	9.03	7.22	5552241-1
50	3.280 (83.31)	Receptacle, Screw or Bail Lock	A31835-ND	6.60	5.28	5552130-1
Edge Mount with ACTION PIN Connectors — RoHS Compliant						
36	2.685 (68.20)	Receptacle	A24389-ND	9.63	7.70	553443-3
50	3.280 (83.31)	Receptacle	A24390-ND	6.65	5.32	553443-4
	3.280 (83.31)	Plug	A24392-ND	6.18	4.94	553444-4
	3.280 (83.31)	Receptacle, Self-Retained Terminals	A24393-ND	6.98	5.58	554753-1
	3.280 (83.31)	Plug, Self-Retained Terminals	A24394-ND	7.83	6.26	554758-1
	3.280 (83.31)	Receptacle, Shielded for Screw Lock	A24395-ND	10.53	8.42	557984-1
64	3.875 (98.43)	Plug	A24396-ND	13.15	10.52	554759-1
	3.875 (98.43)	Plug	A99506-ND	7.88	6.30	553444-5
	3.875 (98.43)	Receptacle	A24397-ND	13.13	10.50	553443-5
Right-Angle Mount Connectors						
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A1515-ND	7.00	5.60	552742-1
50	3.280 (83.31)	Plug, Reverse, Self-Tapping	A24358-ND	10.05	8.04	552726-3
Right-Angle Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Standard, Self-Tapping	A31841-ND	8.70	6.96	5552738-1
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A31831-ND	6.80	5.44	5552740-1
	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A31842-ND†	6.80	5.44	5552791-1
	2.175 (55.25)	Plug, Standard, Self-Tapping	A31843-ND	7.85	6.28	5552741-1
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A31832-ND	6.43	5.14	5552742-1
50	3.280 (83.31)	Plug, Standard, Self-Tapping	A31837-ND	9.40	7.52	5552726-1
	3.280 (83.31)	Receptacle, Standard, Self-Tapping	A31836-ND	9.35	7.48	5552725-1
	3.280 (83.31)	Receptacle, Reverse, Self-Tapping	A31844-ND	9.40	7.52	5552725-3
	3.280 (83.31)	Plug, Reverse, Self-Tapping	A31845-ND	9.40	7.52	5552726-3
	3.280 (83.31)	Receptacle, Standard, Thru-Bolt	A31846-ND	6.00	4.80	5552725-2
64	3.875 (98.43)	Receptacle, Standard, Self-Tapping	A31847-ND	9.30	7.44	5552744-1
	3.875 (98.43)	Plug, Standard, Self-Tapping	A31848-ND	13.65	10.92	5552745-1

† For IEEE-488 applications

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
90° Slide-On Strain Relief Cover Kits and Accessories — RoHS Compliant						
50	.425 - .500 (10.80 - 12.70)	Tapered Cover Kit	A33580-ND	1.27	1.02	5552560-5
		Cable Clamp	A24342-ND	.42	.34	1-229910-1
	.350 - .425 (8.89 - 10.80)	Standard Cover Kit	A33581-ND	2.48	1.99	5552960-2
		Tapered Cover Kit	A33582-ND	.95	.76	5552560-1
	.500 - .550 (12.70 - 13.97)	Standard Cover Kit	A33583-ND	3.02	2.42	5552960-5
		Cable Clamp	A24346-ND	.60	.48	4-229910-1
	.425 - .550 (10.80 - 13.97)	90° Slide-On Cover	A24347-ND	.76	.61	552617-1
	.425 Max. (10.80)	Cover Slide-on Strain Relief	A24348-ND	1.34	1.07	552760-1
		Adjustable Cable Clamp	A24349-ND	.54	.44	552763-1
Hardware Kits — RoHS Compliant						
Screw Lock Hardware Kit, Vertical Mount			A33584-ND	8.60	6.88	5552563-1
Bail Lock Hardware Kit, Vertical Mount			A33585-ND	2.98	2.38	5552562-1
J-Hook Screw Lock, Vertical Mount Kit			A33586-ND	7.10	5.68	5552690-1
Screw Lock Hardware Kit, Edge Mount			A33587-ND	5.35	4.28	5552675-1
Screw Lock Hardware Kit, Right Angle Mount			A33588-ND	2.90	2.32	5552631-1
Metric Front Mount Kit, Right Angle			A33589-ND	5.98	4.78	5552633-3
Metric Rear Mount Kit, Right Angle			A33590-ND	16.95	13.56	5552633-4
Bent Bail Lock, use with 90° Strain Relief			A33591-ND	4.05	3.24	5552561-4
Accessories — RoHS Compliant						
Metric Standoff Studs			A24381-ND	3.21	2.57	552634-3
Standoff Mounting Studs 4-40, Length .640 (16.26)			A33593-ND	1.92	1.54	5229995-2
Standoff Mounting Studs 4-40, Length 1.000 (25.40)			A24399-ND	3.63	2.91	552113-1
4-40 Pan Head Screw - Length .425” (10.80)			A33594-ND	.13	.07	5229996-2
4-40 Pan Head Screw - Length .350” (8.89)			A33595-ND	.17	.09	5229996-3
J-Hook Latch for Panel Mount Receptacle to 90° Cable			A24386-ND	.85	.68	552655-1
4-40 Mounting Screw			A33596-ND	1.65/10		5229911-1
Screw Lock Boardmount, M2			A97699-ND	1.40	1.12	787004-3

Tyco Electronics
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AMP CHAMP® Latch Parallel Interface and Ribbon Cable Connectors

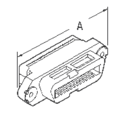

Receptacle

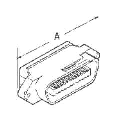

Plug

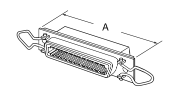

Shielded Receptacle

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP Latch Low Profile Connectors - Plastic — RoHS Compliant						
Screw Lock						
14	1.750 (44.45)	Plug	A24213-ND	14.28	11.42	553596-1
14	1.750 (44.45)	Receptacle	A24214-ND	14.43	11.54	553597-1
24	2.175 (55.25)	Plug	A1559-ND	13.58	10.86	553598-1
24	2.175 (55.25)	Receptacle	A1561-ND	15.48	12.38	553599-1
36	2.685 (68.20)	Plug	A1563-ND	18.93	15.14	553600-1
36	2.685 (68.20)	Receptacle	A1565-ND	15.78	12.62	553601-1
50	3.280 (83.31)	Plug	A1567-ND	16.68	13.34	553602-1
50	3.280 (83.31)	Receptacle	A1569-ND	16.28	13.02	553603-1
Bail Lock						
36	2.685 (68.20)	Plug	A1564-ND	14.13	11.30	554084-1
Panel Mount						
24	2.175 (55.25)	Plug	A24215-ND	13.45	10.76	554103-1
24	2.175 (55.25)	Receptacle	A24216-ND	15.48	12.38	554088-1
36	2.685 (68.20)	Receptacle	A1566-ND	15.10	12.08	554089-1
50	3.280 (83.31)	Receptacle	A1570-ND	15.33	12.26	554090-1
Shielded CHAMP Latch Panel Mount Connectors - Plastic						
Screw Lock, Preassembled — RoHS Compliant						
24	2.205 (56.01)	Receptacle, 6-32	A33597-ND	16.83	13.46	5554434-1
50	3.310 (84.07)	Receptacle, 4-40	A33598-ND	14.20	11.36	5554436-2
Bail Lock, Preassembled — RoHS Compliant						
36	2.715 (68.96)	Receptacle, 4-40	A33599-ND	16.73	13.38	5554346-2
36	2.715 (68.96)	Receptacle, 4-40	A33600-ND†	16.73	13.38	5555983-1
50	3.310 (84.07)	Receptacle, 4-40	A24219-ND†	13.38	10.70	554902-1
Screw Lock, Loose Pieces						
24	2.380 (60.45)	Receptacle	A1558-ND	18.70	14.96	554349-1
24	2.380 (60.45)	Receptacle	A33601-ND◆	16.83	13.46	5554349-1
36	2.380 (60.45)	Receptacle	A33602-ND◆	17.00	13.60	5554348-1
Hardware Kits — RoHS Compliant						
Bail Lock, 4-40 UNC x .500"(12.70)			A33605-ND	2.93	2.34	5552561-3
Front Panel Mount Metric Screw Lock			A33606-ND	6.03	4.82	5553636-2
Rear Panel Mount Metric Screw Lock			A33607-ND	7.88	6.30	5553636-3
Shielded Screw Lock, Rear Mount 4-40			A33608-ND	5.13	4.10	5554272-1
Shielded Screw Lock, Rear Mount Metric			A1579-ND	3.77	3.02	554808-1

◆ *RoHS Compliant* † Does not have boss feature. Boss is a .040" (1.02) shoulder on front of shield.

AMP CHAMP® Connector Kits

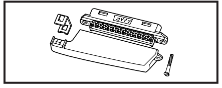

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
50 Position with Tapered Cover Solid and Stranded Kits					
0.550 max. (13.97)	Plug, Black	A33609-ND◆	5.25	4.20	5552382-1
	Receptacle, Black	A33610-ND◆	7.60	6.08	5552383-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A33611-ND◆	3.53	2.82	5229912-1
	Receptacle, Black	A1572-ND	4.08	3.27	229913-1
	Receptacle, Black	A33612-ND◆	3.65	2.92	5229913-1
	Plug, Gray	A33613-ND◆	4.23	3.38	5229912-4
	Receptacle, Gray	A33614-ND◆	4.23	3.38	5229913-4
	Plug with Dust Cover, Black	A33615-ND◆	3.90	3.12	1-5229912-1
	Receptacle with Dust Cover, Black	A24329-ND	4.32	3.46	1-229913-1
	Receptacle with Dust Cover, Black	A33616-ND◆	3.95	3.16	1-5229913-1
.425 - .500 (10.80 - 12.70)	Plug, Black	A33617-ND◆	4.30	3.44	2-5229912-1
	Receptacle, Black	A33618-ND◆	4.23	3.38	2-5229913-1
	Plug with Dust Cover, Black	A33619-ND◆	4.38	3.50	3-5229912-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A33621-ND◆	5.78	4.62	5552402-1
	Receptacle, Black	A33622-ND◆	4.85	3.88	5552403-1
50 Position CHAMP System 5 Connectors — RoHS Compliant					
.51 (12.95)	Plug, 24 AWG Solid, Red	A24365-ND	18.78	15.02	1-558693-1
.350 - .680	120° Strain Relief, Light Almond	A24366-ND	4.10	3.28	569336-1
(8.89 - 17.27)	120° Strain Relief, Black	A24367-ND	2.17	1.74	569336-3
.650 - .750 (16.51 - 19.05)	90° Strain Relief, Lt. Almond Cover	A24368-ND	3.30	2.64	569335-1

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP-LOK Hardware Kits — RoHS Compliant					
—	Locking Latch, 36 or 50 Positions	A24338-ND	.61	.49	552723-1
—	Locking Latch, 14 or 24 Positions	A24339-ND	.68	.55	552723-2
Back-to-Back Connector Assembly — RoHS Compliant					
.380 - .400 (9.65 - 10.16)	24 AWG Cable to Cable Kit, 50 Pos.	A33624-ND	41.33	33.06	5553257-1
50 Position Gender Menders — RoHS Compliant					
—	Receptacle without J-Hook Hardware	A33625-ND	37.15	29.72	5554875-2
—	Plug with J-Hook Hardware	A33626-ND	31.50	25.20	5554876-1
—	Plug with out J-Hook Hardware	A33627-ND	43.25	34.60	5554876-2

◆ *RoHS Compliant*

AMP CHAMP® Shielded Connectors

Terminals: Selectively plated gold over nickel plated high strength copper alloy, tin plated tails.
Housing & Cover Material: Thermoplastic, black

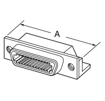

Screw-Lock

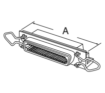

Bail Lock

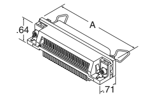

Board Lock Grounding

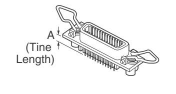

Vertical Mount

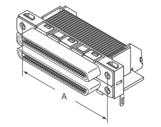

Stacked

Cable Connector Kits

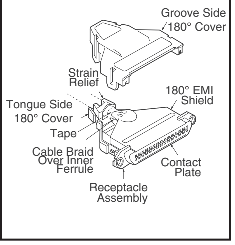

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Right Angle, Preassembled Screw Lock						
24	2.205 (56.01)	Receptacle, Standard, 6-32	A33628-ND◆	13.53	10.82	5553811-1
24	2.205 (56.01)	Receptacle, Reverse, 6-32	A97700-ND◆	17.60	14.08	5553811-2
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15001-ND	10.60	8.48	553813-3
50	3.305 (83.95)	Receptacle, Standard, 4-40	A33631-ND◆	9.25	7.40	5553813-3
Right Angle, Stacked, Preassembled Screw Lock — RoHS Compliant						
68	1.484 (37.70)	Receptacle, M2	A97692-ND	25.75	20.60	5787962-1
Right Angle, Preassembled Bail Lock — RoHS Compliant						
36	2.710 (68.83)	Receptacle, Standard, 4-40	A33632-ND	16.68	13.34	5555233-1
50	3.305 (83.95)	Receptacle, Standard, 4-40	A33633-ND	11.60	9.28	5554901-1
Right Angle, Board Lock Grounding						
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A24299-ND	12.18	9.74	554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A33634-ND◆	11.00	8.80	5554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A24300-ND	11.55	9.24	554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A33635-ND◆	11.00	8.80	5554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Pro., Reverse	A33636-ND◆	12.55	10.04	5555139-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A24302-ND	28.35	22.68	555139-2
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A33637-ND◆	24.83	19.86	5555139-2
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A24303-ND	10.60	8.48	555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A33638-ND◆	11.73	9.38	5555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A33639-ND†◆	16.85	13.48	5555520-2
50	3.320 (84.33)	Screw Lock, 4-40, Standard	A33641-ND◆	14.95	11.96	5557932-2
50	3.320 (84.33)	Bail Lock, 4-40, Standard, Panel Mnt.	A33640-ND◆	11.38	9.10	5555057-1
50	3.310 (84.07)	Bail Lock, 4-40, Standard	A33642-ND◆	13.28	10.62	5555149-1
50	3.310 (84.07)	Bail Lock, 4-40, Reverse	A97693-ND◆	15.60	12.48	5555149-3
Vertical Mount — RoHS Compliant						
24	.150 (3.81)	Screw Lock, 6-32	A33643-ND	11.93	9.54	5554501-1
36	.215 (5.46)	Bail Lock, 4-40	A33645-ND	15.10	12.08	5554145-4
50	.135 (3.43)	Bail Lock, 4-40	A33646-ND	14.75	11.80	5554216-3
50	.200 (5.08)	Screw Lock, 4-40	A33647-ND	15.40	12.32	5554217-4
Hardware Kits — RoHS Compliant						
Vertical Mount, Pan Head Screws (2 req.)			A24309-ND	5.38	4.30	554043-2
Vert. Mt. Metric Standoff Screws (panhead screw and standoff)			A32497-ND	13.38	10.70	5554858-1

◆ *RoHS Compliant* † Has drawn metal shield

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Cable Connector Kits — RoHS Compliant						
Plug — Solid or Stranded						
36	.250 - .500 (6.35 - 12.70)	Bail Lock, 24-26 AWG	A24314-ND‡	5.25	4.20	554950-2
50	.350 - .625 (8.89 - 15.88)	Screw Lock, 24-26 AWG	A24315-ND‡	8.63	6.90	554954-2
		Screw Lock, 26-28 AWG	A15012-ND‡	8.33	6.66	554954-1
		Bail Lock, 26-28 AWG	A15011-ND‡	6.20	4.96	554953-1
		Bail Lock, 24-26 AWG	A24316-ND‡	6.18	4.94	554953-2
	.370 max. (9.40)	Bail Lock, 90° Exit, Gray	A24319-ND‡	13.70	10.96	5-555012-2
Receptacle — Solid or Stranded						
50	.350 - .625 (8.89 - 15.88)	Screw or Bail Lock, 26-28 AWG	A24318-ND‡	6.38	5.10	554955-1
Cover Kits and Accessories						
24	—	180° Cover	A15013-ND	7.90	6.32	554944-1
50	—	180° Cover - Cab. dia. ≤ .500 (12.70)	A15015-ND	3.25	2.60	554946-1
50	—	180° Cover - Cab. dia. ≥ .500 (12.70)	A24320-ND	3.04	2.44	554946-2
Cap. Pan Head Screw, 4-40 (2 req.)			A33648-ND	.36	.19	5554726-1
Inner Ferrule .500 (12.7) Inside Dia.			A24323-ND	.95	.76	554725-6

‡ Cover sold separately

Tyco Electronics
Authorized Distributor

AMP 1mm Card Edge Connectors Slot 1 / AGP / NLX

1mm Standard Edge Connectors have been developed specifically to meet the interconnection requirements for the latest technological advances in personal computers.
These include Intel's Pentium II™ processor (Slot 1), Accelerated Graphics Port (AGP), and the new NLX Form Factor motherboard.

FEATURES:

• 1mm contact spacing compatible with latest interconnection technology for Slot 1, AGP and NLX • High temperature housings suitable for surface mount reflow processes • Pivoting board lock feature offering connector centering before contacts enter PC board holes • Certified by Canadian Standards Association to Canadian and United States Requirements • Produced under a Quality Management System certified to ISO 9001

PERFORMANCE CHARACTERISTICS: • Operating Temperature: 0°C ~ 85°C **• Voltage:** 250VAC **• Characteristic Impedance:** 35<20<80Ω **• Termination Resistance:** 20mΩ maximum (initial) **• Insulation Resistance:** 1000MΩ minimum **• Dielectric Withstanding Voltage:** 400VAC @ sea level **• Durability:** 50 cycles minimum **• Engaging Force:** 3.3 oz. (.917 N) maximum average per contact pair **• Separating Force:** 1.98 ~ .35 oz. (.550 ~ .097N) per contact pair

Fig. 1

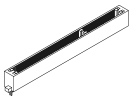

Fully compatible with Intel Pentium II processor module

Fig. 2

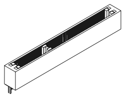

Brings high performance 3-D graphics and full motion video to the desktop

Fig. 3

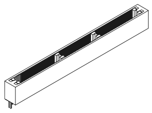

Riser Card Interconnect for new NLX Form Factor motherboard

Fig. 4

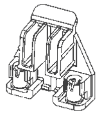

Complete 2 module kit. Required for one processor.

Fig.	Description	Solder Tail Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			1mm Standard Edge Connector			
1	242 Position Slot 1 Connector for Pentium II and Celeron Processors	.100 (2.54)	A33649-ND	8.18	6.54	5145251-2
2	Connector for AGP Card	.100 (2.54)	A33651-ND	6.00	4.80	5145263-2
3	340 Position NLX Riser Card Interconnect	.100 (2.54)	A33652-ND	15.15	12.12	5145275-2
			Celeron Retention Modules			
4	Module Kit with Captive Brass Fasteners, 2 pieces (Use with 145312-1 Bridge/Stud Assembly)		A15108-ND	61.10	48.88	145342-1

3M

D-Sub Mounting Hardware

Fig.	Description	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
1	Jack Screw Kit	MDVS22-ND	1.10	.84	.76	3342-1
2	Jack Screw Kit	MDVS62-ND	1.31	1.00	.91	3342-2
3	Jack Screw Kit	MDVS35-ND	.87	.67	.61	3342-4
4	Screw Mount Kit	MDSMK1-ND	.94	.72	.65	3342-3
5	Jack Socket Kit	MDVS44-ND	1.85	1.41	1.28	3341-1S
6	Jack Socket Kit	MDVS73-ND	1.68	1.28	1.16	3341-2
7	Jack Socket Kit	MDVS50-ND	1.85	1.41	1.28	3341-1L
8	Jack Socket Kit	MDVS81-ND	1.93	1.47	1.33	3341-4

Fig. 1

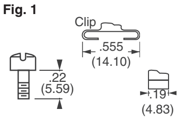

Kit includes 2 screws and 2 clips.

Fig. 2

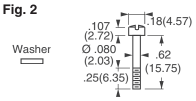

Kit includes 2 screws and 2 flat washers.

Fig. 3

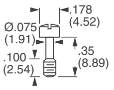

Kit includes 2 screws.

Fig. 4

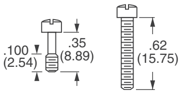

Kit includes 2 screws.

Fig. 5

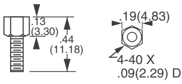

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 6

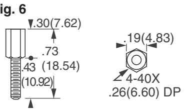

Kit includes 2 sockets, 2 lock washers, and 2 nuts.

Fig. 7

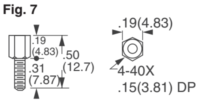

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 8

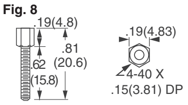

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

RoHS COMPLIANT ~ ISO 9001 CERTIFIED
KEYSTONE ELECTRONICS CORP

Connector Hardware

Material: Steel, Zinc Plate and Gold Iridite. **Threads:** 4-40

Fig.	Description	Digi-Key Part No.	Price Each 1	5	50	Keystone Part No.
1	Jack Screws 4/40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	2073K-ND	3.49	3.30	3.10	2073
2	Jack Screws 4/40 thread slim line, 1.25", (1 pkg. = 2 screws) 2 pc. required per connector	2069K-ND	2.99	2.70	2.40	2069
	Jack Screws 4/40 thread slim line, 1.75", (1 pkg. = 2 screws) 2 pc. required per connector	2071K-ND	2.83	2.68	2.52	2071
3	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector	7228K-ND	.41	.39	.37	7228
	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector	7228-5K-ND†	.41	.39	.37	7228-5
	Jack Screws 4/40 x .250", With Nylon Patch	7260K-ND‡ ***NEW!***	.41	.39	.37	7260
	Jack Screws 4/40 x .250", With Nylon Patch	7261K-ND † ***NEW!***	.41	.39	.37	7261
	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector	7230K-ND	.31	.28	.26	7230
	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector	7230-5K-ND†	.31	.28	.26	7230-5
	Jack Screws 4/40 x .312", With Nylon Patch	7263K-ND‡ ***NEW!***	.41	.39	.37	7263
	Jack Screws 4/40 x .312", With Nylon Patch	7264K-ND † ***NEW!***	.41	.39	.37	7264
	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector	7232K-ND	.78	.74	.69	7232
	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector	7232-5K-ND†	.78	.74	.69	7232-5
	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7229K-ND	1.17	1.06	1.00	7229
	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7229-5K-ND†	.50	.47	.44	7229-5
	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7231K-ND	.41	.39	.36	7231
	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7231-5K-ND†	.41	.39	.36	7231-5
	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws)	7233K-ND	.89	.84	.79	7233
	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws)	7233-5K-ND†	.89	.84	.79	7233-5
	Sems jack screw .285" L 4-40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	7235K-ND	.43	.41	.38	7235
4	"U" Clip Set (4 pieces = 2 screws and 2 clips)	2062K-ND	.57	.49	.46	2062
5	Saddle Washer Set (4 pieces = 2 screws and 2 clips)	2063K-ND	.58	.55	.52	2063
6	4/40 x .250" Bow Tie Clip Set (4 pieces = 2 screws and 2 clips)	2060K-ND	.64	.61	.58	2060
	4/40 x .562" Bow Tie Clip Set (4 pieces = 2 Screws and 2 clips)	2061K-ND	.71	.67	.64	2061

† Clear Chromate ‡ Yellow Chromate

Fig. 1

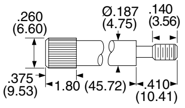

Fig. 2

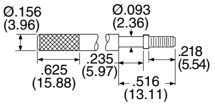

Fig. 3

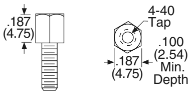

Fig. 4

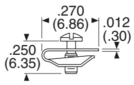

Fig. 5

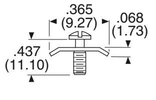

Fig. 6

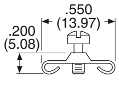

Tyco Electronics
Authorized Distributor

AMPLIMITE®
D-Sub Connectors

All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

Front Metal Shell Right Angle HD-20 Series (Fig. 1): • Housing: 94V-0 rated thermoplastic, black • Shell: Steel, Nickel Plated • Contacts: Pins: Brass; Sockets: Phosphor Bronze • Contact Plating: Gold Flash on mating end, tin on solder tails with overall Nickel underplate, or 15µ Gold on mating end, Tin on solder tails with overall Nickel underplate

Steel Tin Plated Shell HD-20 Series (Fig. 1): • Contact Mating Area Plating: 30µ Gold • Eyelets: Brass, Tin Plated • Threaded Inserts: Zinc • Female Screwlock: Zinc • Boardlocks: Copper Alloy, Tin Plated • Pin Contacts: Brass

Zinc Plated Shell HDP-20 Series (Fig. 2): • Contact Mating Area Plating: Gold Flash • Grounding Indents: Without • Recommended PCB Thickness: .062 (1.57mm)

Steel Tin Plated Shell HD-20 Series (Fig. 2): • Contact Mating Area Plating: 30µ gold • Grounding Indents: On Male Plug • Recommended PCB Thickness: .093 (2.36mm)

Fig. 1

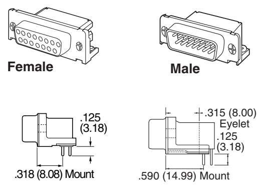

Fig. 2

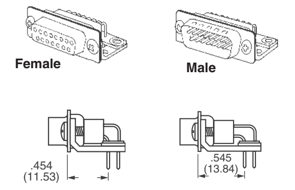

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32072-ND§	3.78	3.15	5747250-4
	9	Female	A32075-ND§	2.90	2.42	5745781-4
	9	Male	A32088-ND§	3.69	3.08	5747250-3
	9	Female	A32106-ND§	3.30	2.75	5745781-3
	15	Male	A32073-ND§	4.50	3.75	5747236-4
	15	Female	A32076-ND§	3.43	2.86	5745782-4
	25	Male	A32074-ND§	5.31	4.43	5747238-4
	25	Female	A32077-ND§	4.21	3.51	5745783-4
	25	Female	A32111-ND‡	4.32	3.60	5745783-3
	25	Male	A35123-ND‡▲	6.57	5.48	5747238-3
	37	Male	A32162-ND§	14.16	11.80	5747252-4
	37	Female	A32078-ND§	5.85	4.88	5745784-4

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A32105-ND§	4.59	3.83	5745781-2
	9	Male	A35125-ND▲§	7.56	6.30	5747250-2
	15	Male	A32086-ND§	5.70	4.75	5747236-2
	15	Female	A32108-ND§	4.14	3.45	5745782-2
	25	Male	A32087-ND§	3.75	3.13	5747238-2
	25	Female	A32110-ND§	6.36	5.30	5745783-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32089-ND§	3.99	3.33	5747250-6
	9	Female	A32107-ND‡	4.50	3.75	5745781-6
	15	Female	A32109-ND§	4.80	4.00	5745782-6
	15	Male	A35122-ND▲§	7.56	6.30	5747236-6
	25	Female	A32113-ND§	5.73	4.78	5745783-6
	25	Female	A32112-ND‡	3.92	3.27	5745783-5
	25	Male	A35124-ND▲§	19.68	16.40	5747238-6
	37	Female	A32114-ND§	11.67	9.73	5745784-6

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Standard Mounting Holes — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32090-ND§	4.08	3.40	5747840-2
	9	Female	A32115-ND§	2.89	2.41	5747844-2
	15	Male	A35126-ND▲§	7.14	5.95	5747841-2
	25	Male	A32098-ND§	6.48	5.40	5747842-2
	25	Female	A32124-ND§	4.47	3.73	5747846-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32092-ND§	2.47	2.06	5747840-4
	9	Female	A32117-ND§	2.92	2.43	5747844-4
	9	Male	A32091-ND‡	2.86	2.38	5747840-3
	9	Female	A32116-ND‡	3.02	2.52	5747844-3
	9	Female	A35109-ND‡	.95	.80	1734348-1
	9	Male	A35113-ND‡	1.91	1.60	1734352-1
	9	Male	A35128-ND▲§	3.19	2.66	5788792-1
	9	Male	A35129-ND‡▲	2.88	2.40	5788792-2
	9	Female	A35135-ND§✻	2.90	2.42	5788796-3
	15	Male	A32096-ND§	3.66	3.05	5747841-4
	15	Female	A32121-ND§	4.38	3.65	5747845-4
	15	Male	A32095-ND‡	4.26	3.55	5747841-3
	15	Female	A32120-ND‡	4.29	3.58	5747845-3
	25	Male	A32100-ND§	4.27	3.56	5747842-4
	25	Female	A32126-ND§	4.32	3.60	5747846-4
	25	Male	A32099-ND‡	4.47	3.73	5747842-3
	25	Female	A32125-ND‡	5.97	4.98	5747846-3
	25	Female	A35111-ND‡	1.41	1.18	1734350-1
	25	Female	A35112-NDΔ	8.52	7.10	1734350-2
	25	Male	A35132-ND▲§	5.55	4.63	5788794-1
	25	Male	A35133-ND‡▲	10.68	8.90	5788794-2
	25	Female	A35138-ND‡✻	4.95	4.13	5788800-2
1	37	Male	A32103-ND§	6.06	5.05	5747843-4
	37	Female	A32129-ND§	6.09	5.08	5747847-4
	37	Male	A35127-ND‡▲	17.16	14.30	5747843-3
	37	Female	A35141-ND§✻	10.14	8.45	5788802-1

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32094-ND§	3.36	2.80	5747840-6
	9	Female	A32119-ND§	2.94	2.45	5747844-6
	9	Male	A32093-ND‡	3.87	3.23	5747840-5
	9	Female	A32118-ND‡	2.96	2.47	5747844-5
	9	Male	A35105-ND‡	1.09	.92	1734351-1
	9	Male	A35106-NDΔ	1.95	1.63	1734351-2
	9	Female	A35107-ND‡	1.87	1.56	1734354-1
	9	Female	A35108-NDΔ	2.57	2.14	1734354-2
	9	Male	A35130-ND▲§	3.52	2.93	5788793-1
	9	Male	A35131-ND‡▲	4.11	3.43	5788793-2
	9	Female	A35136-ND✻§	2.80	2.33	5788797-1
	15	Male	A32097-ND§	3.49	2.91	5747841-6
	15	Female	A32123-ND§	5.43	4.53	5747845-6
	15	Female	A32122-ND‡	4.02	3.35	5747845-5
	15	Female	A35137-ND✻§	9.81	8.18	5788799-1
	25	Male	A32102-ND§	5.88	4.90	5747842-6
	25	Female	A32128-ND§	4.32	3.60	5747846-6
	25	Male	A32101-ND‡	8.97	7.48	5747842-5
	25	Female	A32127-ND‡	4.02	3.35	5747846-5
	25	Female	A35103-ND‡	1.51	1.27	1734349-1
	25	Male	A35134-ND▲§	13.80	11.50	5788795-1
	25	Female	A35139-ND✻§	5.19	4.33	5788801-1
	25	Female	A35140-ND‡✻	4.80	4.00	5788801-2
	37	Male	A32104-ND§	13.68	11.40	5747843-6
	37	Female	A32130-ND§	6.12	5.10	5747847-6

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	15	Male	A35155-ND§	11.70	9.75	5748904-1
	25	Female	A33975-ND§	11.70	9.75	5748901-1

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33976-ND§	8.40	7.00	5748979-1
	25	Female	A35153-ND§	11.37	9.48	5748981-1

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33977-ND§	5.64	4.70	5745394-2
	25	Female	A32131-ND§	7.80	6.50	5745392-2
	25	Male	A35154-ND◊	10.53	8.78	5748865-3

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33978-ND§	6.24	5.20	5745395-2
	15	Female	A33979-ND§	7.08	5.90	5745396-2
	25	Female	A32132-ND§	15.09	12.58	5745397-2

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23334-ND‡	5.52	4.60	745131-1
	9	Female	A33980-ND◆‡	5.88	4.90	5745131-1
	25	Female	A23335-ND§	9.66	8.05	745132-2
	25	Female	A33981-ND◆§	10.20	8.50	5745132-2

Steel, Tin Plated .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32079-ND§	26.94	22.45	5745990-4
	9	Female	A32083-ND§	15.39	12.83	5745988-4
	9	Male	A32133-ND‡	8.76	7.30	5745990-3
	15	Female	A32084-ND§	12.06	10.05	5745984-4
	25	Male	A32081-ND§	18.75	15.63	5745994-4
	25	Female	A32137-ND‡	16.11	13.43	5745992-3
	37	Fema le	A32085-ND§	26.58	22.15	5745996-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32134-ND§	5.19	4.33	5747832-4
	9	Female	A32138-ND§	5.16	4.30	5747836-4
	15	Male	A32080-ND§	4.65	3.88	5747833-4
	25	Male	A32136-ND§	6.03	5.03	5747834-4
	25	Female	A32141-ND§	5.61	4.68	5747838-4
	25	Female	A32140-ND‡	11.19	9.33	5747838-3
	37	Male	A32082-ND§	20.34	16.95	5747835-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32135-ND§	19.71	16.43	5747832-6
	9	Female	A32139-ND§	7.95	6.63	5747836-6
	15	Male	A35151-ND§	24.06	20.05	5747833-6
	25	Male	A35152-ND§	5.94	4.95	5747834-6

All-Plastic .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A35156-ND‡	7.86	6.55	5748907-2

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts— RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A33982-ND§	6.06	5.05	5747467-4
	9	Female	A33983-ND§	6.72	5.60	5747459-4
	9	Female	A33984-ND‡	4.98	4.15	5747459-3
	15	Female	A33985-ND‡	10.32	8.60	5747460-3
	15	Male	A35162-ND§	34.68	28.90	5748872-1
	25	Male	A33986-ND§	11.16	9.30	5748873-1
	25	Female	A33987-ND‡	6.60	5.50	5747461-3
	25	Female	A35158-ND§	19.68	16.40	5747461-4
	37	Female	A35159-ND§	9.60	8.00	5747462-4

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33988-ND§	6.87	5.73	5747459-6
	9	Female	A33989-ND‡	6.72	5.60	5747459-5
	15	Male	A33990-ND§	19.62	16.35	5748952-1
	15	Female	A35157-ND‡	8.58	7.15	5747460-5
	25	Female	A33991-ND§	9.39	7.83	5747461-6
	25	Female	A33992-ND‡	9.30	7.75	5747461-5
	37	Female	A35160-ND§	12.42	10.35	5747462-6

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23357-ND§	5.10	4.25	747459-2
	9	Female	A33993-ND◆§	8.40	7.00	5747459-2
	9	Male	A23373-ND‡	5.40	4.50	747467-1
	9	Male	A33994-ND◆‡	5.79	4.83	5747467-1
	15	Male	A23376-ND§	7.26	6.05	747468-2
	15	Male	A33995-ND◆§	2.94	2.45	5747468-2
	25	Male	A23379-ND§	9.09	7.58	748826-1
	25	Male	A33996-ND◆§	9.21	7.68	5748826-1
	25	Female	A23365-ND§	6.00	5.00	747461-2
	25	Female	A33997-ND◆§	8.61	7.18	5747461-2
	25	Female	A23364-ND‡	6.90	5.75	747461-1
	25	Female	A33998-ND◆‡	5.88	4.90	5747461-1
	37	Male	A23378-ND§	12.00	10.00	747470-2
	37	Male	A33999-ND◆§	12.90	10.75	5747470-2
	37	Female	A23369-ND§	13.20	11.00	747462-2
	37	Female	A34000-ND◆§	9.93	8.28	5747462-2
	50	Male	A35161-ND◆‡	23.82	19.85	5206971-1

Steel, Tin Plated Shell, .454" (11.53mm) Mount — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	9	Male	A32142-ND	15.72	13.10	5745434-8
	9	Female	A35144-ND‡	21.18	17.65	5745438-1
	9	Female	A35145-ND‡	21.24	17.70	5745438-3
	15	Male	A35147-ND§	24.51	20.43	5745435-8
	25	Female	A32144-ND	24.00	20.00	5745440-4

◆ ***RoHS Compliant*** § 30µ Gold Δ 15µ Gold ◊ 10µ Gold † Tin shell
‡ Gold flash on mating end ▲ With Grounding Indents and Straps
✻ With Grounding straps

(Continued)

AMPLIMITE®

D-Sub Connectors *(Cont.)*

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
2	25	Female	A35146-ND‡	19.11	15.93	5745440-1
	25	Male	A35148-ND‡	22.38	18.65	5745436-3
	37	Female	A32145-ND	23.46	19.55	5745441-4
	37	Male	A32143-ND‡	32.88	27.40	5745437-3
Zinc Plated Shell, .545" (13.84mm) Mount — RoHS Compliant						
2	9	Male	A32064-ND	16.74	13.95	5205865-1
	9	Female	A32065-ND	17.04	14.20	5205866-1
	15	Female	A32067-ND	18.57	15.48	5205868-1
	25	Male	A32068-ND§	26.04	21.70	5205857-1
	25	Female	A32069-ND†	21.90	18.25	5205858-1
	37	Male	A32070-ND†	27.96	23.30	5205859-1
	37	Female	A32071-ND	24.72	20.60	5205860-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Standard Mounting Screws — RoHS Compliant						
2	9	Male	A35149-ND§	17.31	14.43	5745351-4
	9	Female	A35150-ND§	18.69	15.58	5745112-2
	15	Male	A32066-ND	19.20	16.00	5745352-4
	15	Female	A32151-ND	16.95	14.13	5745113-2
	25	Female	A32152-ND	23.67	19.73	5745114-2
	37	Male	A32146-ND	27.72	23.10	5745354-4
	37	Female	A32153-ND	50.10	41.75	5745115-2
	50	Male	A32147-ND	33.60	28.00	5745355-4
	50	Female	A32155-ND	32.31	26.93	5745116-2
	50	Female	A32154-ND	34.83	29.03	5745116-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Female Screwlocks						
2	9	Male	A32149-ND◆	19.02	15.85	5747197-4
	9	Female	A32161-ND◆	18.06	15.05	5747020-1
	15	Female	A32157-ND◆	33.21	27.68	5747021-2
	25	Male	A32148-ND◆	25.68	21.40	5747022-2
	25	Female	A32156-ND◆	28.80	24.00	5745536-2
	50	Male	A32150-ND◆	24.06	20.05	5747497-4
	50	Female	A32159-ND◆	21.84	18.20	5747193-2
	50	Female	A23408-ND‡	31.74	26.45	747193-1
	50	Female	A32158-ND◆‡	29.88	24.90	5747193-1

◆ ***RoHS Compliant*** § 30µ Gold Δ 15µ Gold ◊ 10µ Gold † Tin shell
‡ Gold flash on mating end ▲ With Grounding Indents and Straps
✻ With Grounding straps

HDJ-20 All Plastic Jacketed Cable Connector

Use with HDP-20 Crimp Snap-In Contacts (sold separately)

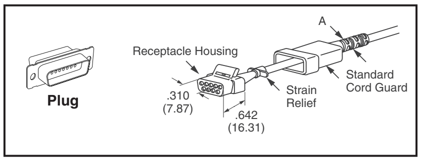

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	Receptacle	A23471-ND†	1.10	.92	207752-3
	Plug	A34002-ND	6.27	5.23	5745018-1
	Steel Strain Relief	A23464CT-ND‡	.18	.15	61831-1
	Steel Strain Relief	A23464TR-ND§	134.71/1,500		61831-1

No. of Pos.	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	25	AMP Part No.
HDJ-20 Standard Cord Guards – Black Thermoplastic					
9	.234 (5.94)	A23465-ND	2.84	2.37	207753-1
HDJ-20 Squeeze-to-Release Cord Guards – Black Thermoplastic					
9	.265 (6.73)	A23467-ND	1.35	1.13	745002-2

† 94V-0 rated thermoplastic black ‡ Cut Tape § Tape and Reel

HD-20 All-Plastic Straight Posted with ACTION PIN

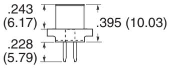

No. of Pos.	Sex	Profile	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Fixed Female Screwlocks — RoHS Compliant						
9	Female	Low	A32054-ND	8.28	6.90	5745454-2
25	Female	Low	A32055-ND	13.32	11.10	5745458-2
37	Female	Low	A32056-ND	26.37	21.98	5745459-2

Plug Assemblies

HDJ-20 All-Plastic Plug Assemblies with Right-Angle Posted Contacts

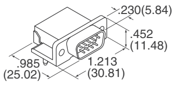

Material and Finish: Housing and Post Spacer: Black thermoplastic, 94V-2 rated **Pin Contacts (Posted):** Brass, plated Gold flash on mating end, tin-lead on solder posts, entire contact nickel underplated

No. of Positions	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	A23474-ND A34003-ND◆	12.21 10.08	10.18 8.40	745001-3 5745001-3

◆ ***RoHS Compliant***

HDP-20 Front Metal-Shell Straight Posted with Solder Pins

Material and Finish: Front Shell: Steel, tin plated **Housing:** 94V-0 rated, black glass filled polyester **Threaded Inserts:** Tin plated steel, 4-40 inner thread **Female Screwlocks:** Tin plated steel, 4-40 inner thread **Boardlocks:** Tin plated Phosphor bronze **Contacts:** Phosphor bronze **Plating:** Gold over nickel, tin plating on solder part

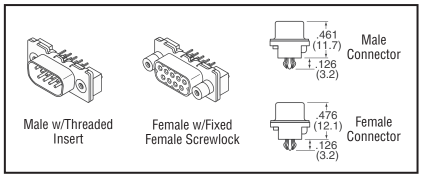

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Threaded Inserts					
9	Male	A35163-ND	6.06	5.05	1-338309-2
	Female	A35166-ND	6.12	5.10	1-338313-2
15	Male	A35164-ND	7.26	6.05	1-338310-2
	Female	A35167-ND	6.39	5.33	1-338314-2
25	Male	A35165-ND	8.94	7.45	1-338311-2
	Female	A35168-ND	7.71	6.43	1-338315-2
37	Male	A99300-ND	11.37	9.48	1-338312-2
	Female	A99302-ND	8.82	7.35	1-338316-2
With Fixed Female Screwlocks					
9	Male	A35169-ND	6.54	5.45	3-338309-2
	Female	A35172-ND	6.48	5.40	3-338313-2
15	Male	A35170-ND	7.77	6.48	3-338310-2
	Female	A35173-ND	6.90	5.75	3-338314-2
25	Male	A35171-ND	9.45	7.88	3-338311-2
	Female	A35174-ND	8.22	6.85	3-338315-2
37	Male	A99301-ND	11.10	9.25	3-338312-2
	Female	A99303-ND	9.33	7.78	3-338316-2

HD-20 Front Metal-Shell Straight Posted with ACTION PIN

Material and Finish:

Front Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Action Pin Contacts:** Copper alloy duplex plated **Plating:** 30µ gold on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (minimum) nickel underplated

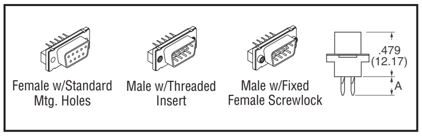

No. of Pos.	Sex	Dim A In. (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Standard Mounting Holes						
9	Female	.206 (5.23)	A32030-ND	10.32	8.60	5747089-2
15	Female	.206 (5.23)	A32041-ND	11.79	9.83	5747140-2
25	Female	.206 (5.23)	A35195-ND	12.66	10.55	5745922-2
37	Female	.228 (5.79)	A32046-ND	17.25	14.38	5747713-2
50	Female	.228 (5.79)	A32044-ND	31.86	26.55	5747143-2
With Threaded Inserts						
9	Female	.206 (5.23)	A32031-ND	9.30	7.75	5747090-2
	Male	.228 (5.79)	A32052-ND	14.58	12.15	5786830-1
15	Female	.228 (5.79)	A32042-ND	14.01	11.68	5747141-2
25	Female	.228 (5.79)	A32040-ND	13.68	11.40	5745925-2
	Male	.228 (5.79)	A32049-ND	18.06	15.05	5748146-4
37	Female	.228 (5.79)	A32047-ND	25.05	20.88	5747714-2
	Male	.228 (5.79)	A32051-ND	23.97	19.98	5786534-1
50	Female	.228 (5.79)	A32033-ND	28.98	24.15	5747144-2
	Male	.228 (5.79)	A32034-ND	39.12	32.60	5749892-1
With Fixed Female Screwlocks						
9	Female	.206 (5.23)	A35198-ND†	11.64	9.70	5745455-2
	Female	.228 (5.79)	A32032-ND	13.71	11.43	5747091-2
	Male	.228 (5.79)	A35197-ND	12.27	10.23	5787176-1
15	Female	.228 (5.79)	A32043-ND	15.15	12.63	5747142-2
	Male	.228 (5.79)	A32053-ND	15.06	12.55	5787177-1
25	Female	.228 (5.79)	A32029-ND	14.76	12.30	5745928-2
	Male	.228 (5.79)	A32050-ND	18.06	15.05	5748146-6
37	Female	.228 (5.79)	A32048-ND	24.33	20.28	5747715-2
	Male	.228 (5.79)	A35196-ND	20.73	17.28	5750060-1
50	Female	.228 (5.79)	A32045-ND	31.11	25.93	5747145-2

† Brass Screwlocks

HD-20 All-Plastic Straight Posted

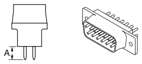

Material and Finish: Housing: 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Brass, nickel plated **Pin Contacts:** Brass or phosphor bronze plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23218-ND†	4.74	3.95	208006-2
	Female	.125 (3.18)	A23238-ND†	4.80	4.00	207826-4
	Male	.125 (3.18)	A23217-ND‡	4.47	3.73	208006-1
15	Male	.125 (3.18)	A23220-ND†	5.79	4.83	208007-2
	Male	.125 (3.18)	A23222-ND†	7.56	6.30	208008-2
25	Female	.125 (3.18)	A23243-ND†	11.31	9.43	207828-4
	Male	.125 (3.18)	A23221-ND‡	6.00	5.00	208008-1
	Female	.125 (3.18)	A23242-ND‡	7.32	6.10	207828-3
37	Female	.125 (3.18)	A23245-ND†	6.48	5.40	207829-4
	Male	.125 (3.18)	A23223-ND‡	8.76	7.30	208009-1
50	Male	.125 (3.18)	A23225-ND†	15.93	13.28	208010-2
With Standard Mounting Holes — RoHS Compliant						
9	Male	.125 (3.18)	A34004-ND†	4.44	3.70	5208006-2
	Female	.125 (3.18)	A34005-ND†	4.50	3.75	5207826-4
	Male	.125 (3.18)	A34006-ND‡	4.74	3.95	5208006-1
	Female	.125 (3.18)	A32060-ND‡	4.80	4.00	5207826-3
15	Male	.125 (3.18)	A34007-ND†	4.92	4.10	5208007-2
	Female	.125 (3.18)	A32061-ND†	5.28	4.40	5207827-4
25	Male	.125 (3.18)	A34008-ND†	6.72	5.60	5208008-2
	Female	.125 (3.18)	A34009-ND†	5.58	4.65	5207828-4
	Male	.125 (3.18)	A34010-ND‡	5.64	4.70	5208008-1
	Female	.125 (3.18)	A34011-ND‡	7.68	6.40	5207828-3
37	Female	.125 (3.18)	A34012-ND†	9.36	7.80	5207829-4
	Male	.125 (3.18)	A34013-ND‡	9.06	7.55	5208009-1
	Male	.170 (4.32)	A35187-ND‡	10.35	8.63	5208009-3
50	Male	.125 (3.18)	A34014-ND†	12.12	10.10	5208010-2
With Threaded Inserts						
9	Female	.125 (3.18)	A23248-ND†	6.72	5.60	207841-4
	Female	.125 (3.18)	A23247-ND‡	7.20	6.00	207841-3
15	Female	.125 (3.18)	A23250-ND†	9.48	7.90	745057-4
	Male	.125 (3.18)	A23228-ND†	9.75	8.13	745053-2
25	Female	.125 (3.18)	A23252-ND†	11.82	9.85	745058-4
	Female	.125 (3.18)	A23251-ND‡	11.64	9.70	745058-3
With Threaded Inserts — RoHS Compliant						
9	Female	.125 (3.18)	A34015-ND†	7.26	6.05	5207841-4
	Female	.125 (3.18)	A34016-ND‡	5.40	4.50	5207841-3
	Male	.125 (3.18)	A35188-ND‡	7.68	6.40	5745051-1
15	Female	.125 (3.18)	A34017-ND†	8.85	7.38	5745057-4
25	Male	.125 (3.18)	A34018-ND†	11.40	9.50	5745053-2
	Female	.125 (3.18)	A34019-ND†	10.02	8.35	5745058-4
	Female	.125 (3.18)	A34020-ND‡	10.86	9.05	5745058-3
37	Female	.125 (3.18)	A35191-ND†	12.18	10.15	5745059-4
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A23230-ND†	6.72	5.60	745071-2

† 30µ gold on mating end ‡ Gold flash on mating end *(Continued)*

Tyco Electronics
Authorized Distributor

AMPLIMITE®
D-Sub Connectors
HD-20 All-Plastic Straight Posted *(Cont.)*

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	Male	.125 (3.18)	A23229-ND‡	6.60	5.50	745071-1
	Female	.125 (3.18)	A23254-ND‡	6.30	5.25	745076-3
	Male	.170 (4.32)	A23231-ND†	7.35	6.13	745071-4
15	Female	.125 (3.18)	A23258-ND†	8.52	7.10	745077-4
	Male	.170 (4.32)	A23232-ND†	9.84	8.20	745072-4
25	Female	.125 (3.18)	A23261-ND†	7.20	6.00	745078-4
	Male	.125 (3.18)	A23233-ND‡	9.54	7.95	745073-1
	Female	.125 (3.18)	A23260-ND‡	11.76	9.80	745078-3
37	Female	.125 (3.18)	A23265-ND†	10.80	9.00	745079-4
	Male	.170 (4.32)	A23236-ND†	13.32	11.10	745074-4
	Female	.170 (4.32)	A23266-ND†	17.67	14.73	745079-6
With Fixed Female Screwlocks — RoHS Compliant						
9	Male	.125 (3.18)	A34021-ND†	7.20	6.00	5745071-2
	Female	.125 (3.18)	A34022-ND†	6.00	5.00	5745076-4
	Male	.125 (3.18)	A34023-ND‡	6.72	5.60	5745071-1
	Female	.125 (3.18)	A34024-ND‡	5.28	4.40	5745076-3
	Male	.170 (4.32)	A34025-ND†	7.80	6.50	5745071-4
	Female	.170 (4.32)	A32062-ND†	7.20	6.00	5745076-6
15	Female	.125 (3.18)	A34026-ND†	9.30	7.75	5745077-4
	Female	.125 (3.18)	A34027-ND‡	7.38	6.15	5745077-3
	Male	.125 (3.18)	A35189-ND†	7.50	6.25	5745072-2
	Female	.170 (4.32)	A35192-ND†	6.42	5.35	5745077-6
	Male	.170 (4.32)	A34028-ND†	9.36	7.80	5745072-4
25	Male	.125 (3.18)	A34029-ND†	9.12	7.60	5745073-2
	Female	.125 (3.18)	A34030-ND†	9.00	7.50	5745078-4
	Male	.125 (3.18)	A34031-ND‡	8.40	7.00	5745073-1
	Female	.125 (3.18)	A34032-ND‡	7.44	6.20	5745078-3
	Female	.170 (4.32)	A32063-ND†	7.20	6.00	5745078-6
	Female	.170 (4.32)	A34033-ND‡	9.84	8.20	5745078-5
	Male	.170 (4.32)	A35190-ND‡	9.72	8.10	5745073-3
37	Female	.125 (3.18)	A34034-ND†	13.38	11.15	5745079-4
	Male	.170 (4.32)	A34035-ND†	12.66	10.55	5745074-4
	Female	.170 (4.32)	A34036-ND†	16.50	13.75	5745079-6
50	Female	.125 (3.18)	A35193-ND†	20.40	17.00	5745080-4
	Female	.170 (4.32)	A35194-ND†	23.40	19.50	5745080-6

† 30µ gold on mating end ‡ Gold flash on mating end

HD-20 Full Metal-Shell Straight Posted

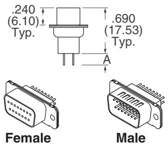

Material and Finish: Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Pin Contacts:** Brass or phosphor bronze plated, tin on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Without Grounding Indents						
9	Male	.125 (3.18)	A23139-ND‡	4.62	3.85	745182-2
25	Male	.125 (3.18)	A23140-ND‡	8.25	6.88	745186-2
Without Grounding Indents — RoHS Compliant						
9	Male	.125 (3.18)	A34037-ND‡	4.50	3.75	5745182-2
25	Male	.125 (3.18)	A34038-ND‡	8.25	6.88	5745186-2
With Grounding Indents						
9	Male	.125 (3.18)	A23141-ND†	5.43	4.53	745410-1
	Male	.188 (4.78)	A23142-ND†	7.08	5.90	745410-7
25	Male	.125 (3.18)	A23143-ND†	10.71	8.93	745412-1
	Male	.188 (4.78)	A23144-ND†	14.70	12.25	745412-7
37	Male	.125 (3.18)	A23145-ND†	26.40	22.00	745413-1
50	Male	.125 (3.18)	A23146-ND†	19.83	16.53	745414-1
	Male	.188 (4.78)	A23147-ND†	30.15	25.13	745414-7
With Grounding Indents — RoHS Compliant						
9	Male	.125 (3.18)	A34039-ND†	5.16	4.30	5745410-1
	Male	.188 (4.78)	A34040-ND†	8.88	7.40	5745410-7
25	Male	.125 (3.18)	A34041-ND†	13.83	11.53	5745412-1
	Male	.188 (4.78)	A34042-ND†	9.33	7.78	5745412-7
37	Male	.125 (3.18)	A34043-ND†	15.00	12.50	5745413-1
50	Male	.125 (3.18)	A34044-ND†	17.70	14.75	5745414-1
	Male	.188 (4.78)	A34045-ND†	23.16	19.30	5745414-7
With .120" (3.05mm) Mounting Holes						
9	Female	.125 (3.18)	A23149-ND‡	5.37	4.48	745183-2
	Female	.188 (4.78)	A23150-ND†	6.21	5.18	745183-7
15	Female	.188 (4.78)	A23148-ND†	12.60	10.50	745185-7
25	Female	.188 (4.78)	A23152-ND†	10.92	9.10	745187-7
37	Female	.188 (4.78)	A23155-ND†	12.69	10.58	745189-7
50	Female	.125 (3.18)	A23156-ND†	18.51	15.43	745191-1
	Female	.188 (4.78)	A23157-ND†	16.47	13.73	745191-7
With .120" (3.05mm) Mounting Holes — RoHS Compliant						
9	Female	.125 (3.18)	A34046-ND‡	4.95	4.13	5745183-2
	Female	.188 (4.78)	A34047-ND†	6.60	5.50	5745183-7
	Female	.427 (10.85)	A35175-ND†	7.32	6.10	5745183-3
15	Female	.188 (4.78)	A34048-ND†	7.41	6.18	5745185-7
25	Female	.125 (3.18)	A34049-ND†	10.11	8.43	5745187-1
	Female	.188 (4.78)	A34050-ND†	9.63	8.03	5745187-7
	Female	.188 (4.78)	A34051-ND‡	9.09	7.58	5745187-8
	Female	.427 (10.85)	A35176-ND†	11.01	9.18	5745187-3
37	Female	.125 (3.18)	A34052-ND†	14.37	11.98	5745189-1
	Female	.188 (4.78)	A34053-ND†	12.69	10.58	5745189-7
50	Female	.125 (3.18)	A34054-ND†	18.06	15.05	5745191-1
	Female	.188 (4.78)	A34055-ND†	22.14	18.45	5745191-7
With Clinch Nuts						
9	Female	.125 (3.18)	A23163-ND‡	8.10	6.75	747190-1
	Female	.125 (3.18)	A23164-ND†	6.90	5.75	747190-2
15	Female	.125 (3.18)	A23158-ND†	9.27	7.73	745820-1
	Female	.125 (3.18)	A23159-ND‡	11.82	9.85	745820-2
37	Female	.125 (3.18)	A23167-ND†	20.25	16.88	747315-1
With Clinch Nuts — RoHS Compliant						
9	Female	.125 (3.18)	A34056-ND†	6.75	5.63	5747190-2
	Female	.125 (3.18)	A34057-ND‡	7.08	5.90	5747190-1
	Female	.188 (4.78)	A34058-ND†	9.93	8.28	5747190-4
15	Female	.125 (3.18)	A34059-ND†	11.31	9.43	5745820-1
	Female	.125 (3.18)	A34060-ND‡	10.62	8.85	5745820-2
25	Female	.125 (3.18)	A34061-ND†	11.76	9.80	5745886-1
	Female	.125 (3.18)	A34062-ND‡	10.71	8.93	5745886-2
37	Female	.125 (3.18)	A34063-ND†	18.90	15.75	5747315-1

† 30µ gold on mating end ‡ Gold flash on mating end

HD-20 Front Metal-Shell Straight Posted

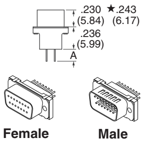

Material and Finish: Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Pin Contacts:** Brass or phosphor bronze plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125(3.18)	A23183-ND†	6.51	5.43	747871-2
	Female	.170(4.32)	A23207-ND†	7.86	6.55	747150-4
15	Female	.125(3.18)	A23211-ND†	5.28	4.40	747299-2
	Male	.170(4.32)	A23185-ND†	7.32	6.10	747872-4
25	Male	.125(3.18)	A23177-ND†	9.18	7.65	745968-2
	Male	.170(4.32)	A23178-ND†	7.26	6.05	745968-4
37	Male	.125(3.18)	A23181-ND†	13.11	10.93	747375-2
With Standard Mounting Holes — RoHS Compliant						
9	Female	.125(3.18)	A32038-ND†	5.49	4.58	5747150-2
	Male	.125(3.18)	A34064-ND†	5.55	4.63	5747871-2
	Female	.170(4.32)	A34065-ND†	7.35	6.13	5747150-4
	Male	.170(4.32)	A35178-ND†	5.70	4.75	5747871-4
15	Female	.125(3.18)	A34066-ND†	5.07	4.23	5747299-2
	Male	.170(4.32)	A34067-ND†	6.75	5.63	5747872-4
	Female	.170(4.32)	A35182-ND†★	11.67	9.73	5747299-4
25	Male	.125(3.18)	A34068-ND†	8.79	7.33	5745968-2
	Female	.125(3.18)	A34069-ND†	6.42	5.35	5745967-2
	Male	.170(4.32)	A34070-ND†	6.93	5.78	5745968-4
	Female	.170(4.32)	A35181-ND†★	7.56	6.30	5745967-4
37	Male	.125(3.18)	A34071-ND†	11.01	9.18	5747375-2
	Female	.125(3.18)	A32039-ND†	11.49	9.58	5747301-2
With 4-40 Threaded Inserts						
9	Female	.125(3.18)	A23209-ND†	6.21	5.18	747150-8
	Female	.125(3.18)	A23208-ND‡	4.47	3.73	747150-7
15	Male	.125(3.18)	A23186-ND†	6.36	5.30	747872-8
	Female	.125(3.18)	A23213-ND†	5.52	4.60	747299-8
25	Male	.125(3.18)	A23180-ND†	7.80	6.50	745968-8
	Male	.125(3.18)	A23179-ND‡	11.40	9.50	745968-7
37	Male	.125(3.18)	A23182-ND†	10.02	8.35	747375-8
	Female	.125(3.18)	A23216-ND†	13.44	11.20	747301-8
With 4-40 Threaded Inserts — RoHS Compliant						
9	Male	.125(3.18)	A32035-ND†	6.12	5.10	5747871-8
	Female	.125(3.18)	A34072-ND†	6.00	5.00	5747150-8
	Female	.125(3.18)	A34073-ND‡	4.11	3.43	5747150-7
	Female	.170(4.32)	A34074-ND‡	6.30	5.25	5747150-9
15	Male	.125(3.18)	A34075-ND†	6.24	5.20	5747872-8
	Female	.125(3.18)	A34076-ND†	5.58	4.65	5747299-8
	Female	.125(3.18)	A34077-ND‡	5.19	4.33	5747299-7
25	Male	.125(3.18)	A34078-ND†	7.29	6.08	5745968-8
	Female	.125(3.18)	A34079-ND†	8.40	7.00	5745967-8
	Male	.125(3.18)	A34080-ND‡	6.96	5.80	5745968-7
	Female	.125(3.18)	A34081-ND‡	6.36	5.30	5745967-7
	Female	.170(4.32)	A34082-ND†	9.12	7.60	1-5745967-0
37	Male	.125(3.18)	A34083-ND†	13.26	11.05	5747375-8
	Female	.125(3.18)	A34084-ND†	13.26	11.05	5747301-8
	Female	.125(3.18)	A34085-ND‡	10.92	9.10	5747301-7
With Retention 4-40 Inserts (for .062" [1.58mm] PCB) — RoHS Compliant						
9	Male	.125(3.18)	A32058-ND†	6.09	5.08	2-5748003-0
	Female	.125(3.18)	A32036-ND†	5.94	4.95	2-5747706-0
15	Female	.125(3.18)	A34086-ND†	5.10	4.25	2-5747707-0
25	Male	.125(3.18)	A34087-ND†	5.85	4.88	2-5747704-0
	Female	.125(3.18)	A32037-ND†	6.78	5.65	2-5747708-0
37	Female	.125(3.18)	A34088-ND†	14.28	11.90	2-5747709-0
With Fixed Female Screwlocks — RoHS Compliant						
9	Male	.125(3.18)	A32057-ND†	6.99	5.83	1-5747871-4
	Female	.125(3.18)	A32059-ND†	7.14	5.95	1-5747150-4
	Male	.125(3.18)	A34089-ND‡	5.82	4.85	1-5747871-3
	Female	.125(3.18)	A34090-ND‡	5.73	4.78	1-5747150-3
	Female	.170(4.32)	A34091-ND†	7.05	5.88	1-5747150-6
	Male	.170(4.32)	A34092-ND†	6.09	5.08	1-5747871-6
15	Female	.125(3.18)	A34093-ND†	6.39	5.33	1-5747299-4
	Male	.170(4.32)	A34094-ND†	7.59	6.33	1-5747872-6
	Female	.170(4.32)	A34095-ND†	6.21	5.18	1-5747299-6
25	Male	.125(3.18)	A34096-ND†	8.31	6.93	1-5745968-4
	Female	.125(3.18)	A34097-ND†	6.36	5.30	1-5745967-4
	Male	.125(3.18)	A34098-ND‡	6.93	5.78	1-5745968-3
	Male	.170(4.32)	A34099-ND†	8.49	7.08	1-5745968-6
	Male	.170(4.32)	A35177-ND‡	6.75	5.63	1-5745968-5
	Female	.170(4.32)	A34100-ND†	7.14	5.95	1-5745967-6
	Female	.170(4.32)	A34101-ND‡	9.57	7.98	1-5745967-5
37	Female	.170(4.32)	A34102-ND†	18.51	15.43	1-5747301-6
With Retention 4-40 Screwlocks (for .062" [1.58mm] PCB) — RoHS Compliant						
9	Female	.125(3.18)	A35184-ND†★	10.50	8.75	5750678-1
15	Male	.125(3.18)	A35179-ND†	9.60	8.00	5748026-1
	Female	.125(3.18)	A35185-ND†★	9.39	7.83	5787683-1
25	Male	.125(3.18)	A34103-ND†	9.42	7.85	5748027-1
	Female	.125(3.18)	A35183-ND†★	9.72	8.10	5748612-1
37	Male	.125(3.18)	A35180-ND†	13.35	11.13	5787686-1
	Female	.125(3.18)	A35186-ND†★	14.76	12.30	5787685-1

† 30µ gold on mating end ‡ Gold flash on mating end
★ See Drawing for Dimension

molex®

Micro-D Connectors

Fig. 1 — Plug, Right Angle

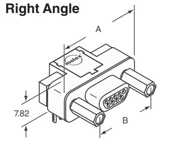

Fig. 2 — Cable Receptacle, Single Ended

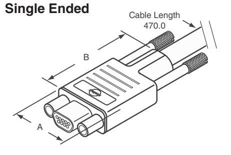

Features: • Economical solution for commercial applications requiring the density of a microminiature connector. • Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions.

Electrical: • Current: 1.0A • Contact Resistance: 8mΩ max.

Physical: • Housing: Shell - Nickel plated 1008LC Steel; Insulator - LCP, UL 94V-0 • Contact: Pin - Gold plated Beryllium Copper • Jackpost: Stainless Steel • Operating Temperature: -55°C ~ 125°C • Cable: 28 AWG-PVC Jacket - Shielded - 85°, 300V UL2464

Fig.	No. of Pos.	Dim. in mm A	Dim. in mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Molex Part No.
1	9	19.94	14.35	WM2142-ND	16.52	14.58	83611-9006
	15	23.75	18.16	WM2143-ND	18.92	16.70	83612-9020
	25	30.10	24.51	WM2144-ND	22.53	19.88	83614-9012
2	9	21.10	34.80	WM2145-ND	39.04	34.45	83421-9042
	15	23.75	34.80	WM2146-ND	64.87	57.24	83422-9007
	25	30.10	35.56	WM2147-ND	78.09	68.90	83424-9019

Tyco Electronics
Authorized Distributor

AMPLIMITE®

D-Sub Connectors

HDP-20 Zinc and Tin Plated Metal Shell

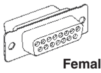
Female

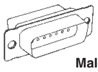
Male

Crimp Type

Pins and Sockets Sold Separately

Material and Finish: Shell: Steel, zinc or tin plated **Insert:** 94V-0 rated thermoplastic, black **Mounting Holes: Standard:** .120" (3.05mm) Diameter **Clinch Nut:** 4-40 threads with self-locking feature **Mounting Method: 1:** Standard; **2:** Clinch Nut

No. of Pos.	Sex	Mount. Method	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Zinc Plated Shell						
9	Male	1	A31886-ND	1.32	1.10	205204-9
	Female	1	A34104-ND	1.61	1.34	205203-8
15	Male	1	A34105-ND	1.80	1.50	205206-9
	Female	1	A34106-ND	1.66	1.38	205205-7
25	Male	1	A34107-ND	1.67	1.39	5205208-1
	Female	1	A34108-ND	1.61	1.34	5205207-1
	Female	2	A35200-ND	7.14	5.95	207516-6
37	Male	1	A34109-ND	3.60	3.00	205210-8
	Female	1	A34110-ND	2.61	2.18	205209-7
50	Male	1	A34111-ND	4.32	3.60	1658641-3
	Female	1	A34112-ND	4.23	3.53	1658640-2
Tin Plated Shell Without Grounding Indents						
9	Male	1	A31887-ND	1.63	1.36	205204-8
	Female	1	A1031-ND	1.31	1.09	205203-3
	Male	2	A35199-ND	5.70	4.75	1658642-2
	Female	2	A31921-ND	5.76	4.80	1658643-1
15	Male	1	A31888-ND	1.83	1.53	205206-8
	Female	1	A1033-ND	1.25	1.04	205205-2
	Female	2	A31922-ND	5.82	4.85	1658644-1
25	Male	1	A31889-ND	1.60	1.33	207464-7
	Female	1	A1035-ND	1.45	1.21	207463-1
	Female	2	A31917-ND	5.28	4.40	207516-5
37	Male	1	A31890-ND	2.40	2.00	205210-7
	Female	2	A34113-ND	7.50	6.25	5207661-3
50	Male	1	A31891-ND	4.50	3.75	1658641-1
	Female	1	A31893-ND	3.27	2.73	1658640-1
	Female	2	A35231-ND	8.40	7.00	5745884-1
Tin Plated Shell With Grounding Indents						
9	Male	1	A1038-ND	1.31	1.09	205204-4
	Male	2	A31920-ND	5.16	4.30	1658642-1
	Female	1	A99333-ND	2.06	1.72	164531-4
	Male	1	A99337-ND	1.68	1.40	167292-1
15	Male	1	A1039-ND	1.38	1.15	205206-3
	Female	1	A99334-ND	2.24	1.87	164532-4
	Male	1	A99338-ND	2.04	1.70	167293-1
25	Male	1	A1040-ND	1.33	1.11	207464-2
	Male	2	A31918-ND	6.90	5.75	5745036-2
	Female	1	A99335-ND	2.34	1.95	164533-4
	Male	1	A99339-ND	2.40	2.00	167294-1
37	Male	1	A1041-ND	2.51	2.09	205210-3
	Female	1	A99336-ND	2.70	2.25	164534-4
	Male	1	A99340-ND	2.82	2.35	167295-1
50	Male	1	A31892-ND	3.26	2.72	1658641-2

HDP-20 Pins and Sockets

Material: Pin: Brass – Phosphor bronze per QQ-B-750

Plated:
- **A:** Select – Gold flash over nickel on entire contact, with additional 30µ gold on mating end
- **B:** Gold flash over nickel on entire contact
- **C:** Duplex – 30µ gold on mating end, tin on termination end, with entire contact nickel underplated
- **D:** Duplex – Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Crimp Type Pin Diameter: .040" (1.02mm)

Without Insulation Support

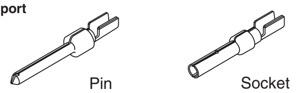

With Insulation Support

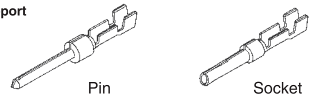

Desc.	AWG	Insulation Dia. Inch (mm)	Cont. Fin.	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip Tape and Reel Qty.	Strip Tape and Reel Pricing	AMP Part No.
With Insulation Support														
Pin	28-24	.040 (1.02)	A	A1630-ND	3.34	23.36	66507-9	A1630CT-ND	22.97	95.70	A1630TR-ND	10,000	103.36/M	66507-3
Socket	28-24	.040 (1.02)	A	A1632-ND	3.42	23.90	66505-9	A1632CT-ND	18.37	76.54	A1632TR-ND	10,000	82.67/M	66505-3
Pin	28-24	.040 (1.02)	C	—	—	—	—	A31909CT-ND	16.52	68.84	A31909TR-ND	10,000	74.35/M	1658540-4
Socket	28-24	.040 (1.02)	C	—	—	—	—	A31906CT-ND	18.07	75.28	A31906TR-ND	10,000	90.33/M	1658538-2
Pin	28-24	.040 (1.02)	B	A23004-ND	2.41	16.84	1-66507-0	A23004CT-ND	15.01	62.55	A23004TR-ND	10,000	67.56/M	66507-4
Socket	28-24	.040 (1.02)	B	A23003-ND	2.68	18.71	1-66505-0	A23003CT-ND	21.18	88.24	A23003TR-ND	10,000	95.30/M	66505-4
Pin	28-24	.040 (1.02)	D	A31904-ND	1.82	14.54	1658540-2	A31904CT-ND	9.60	40.01	A31904TR-ND	10,000	43.22/M	1658540-1
Pin	28-24	.060 (1.52)	A	—	—	—	—	A23027CT-ND	18.43	76.78	A23027TR-ND	10,000	82.92/M	66683-2
Socket	28-24	.060 (1.52)	A	A23031-ND	6.50	45.42	66683-4	A23031CT-ND	37.12	154.68	A23031TR-ND	10,000	167.05/M	66683-2
Pin	28-24	.060 (1.52)	C	—	—	—	—	A31908CT-ND	16.40	68.31	A31908TR-ND	10,000	73.78/M	5066682-9
Pin	28-24	.060 (1.52)	D	—	—	—	—	A31907CT-ND	22.17	92.39	A31907TR-ND	10,000	99.78/M	5066682-6
Pin	26-22	.050 (1.27)	A	A24209-ND	2.90	20.23	745254-6	A24209CT-ND	26.15	108.96	A24209TR-ND	10,000	117.68/M	745254-2
Socket	26-22	.050 (1.27)	A	A23722-ND	2.92	20.38	745253-6	A23722CT-ND	31.90	132.90	A23722TR-ND	10,000	143.54/M	745253-2
Pin	26-22	.050 (1.27)	C	A31903-ND	3.54	28.34	1658544-1	A31903CT-ND	30.22	125.93	A31903TR-ND	10,000	136.00/M	1658544-2
Socket	26-22	.050 (1.27)	C	A31902-ND	4.71	37.69	1658543-1	A31902CT-ND	19.84	82.68	A31902TR-ND	10,000	89.29/M	1658543-2
Socket	26-22	.050 (1.27)	B	—	—	—	—	A23036CT-ND	20.73	86.38	A23036TR-ND	10,000	93.29/M	745253-3
Pin	26-22	.050 (1.27)	D	—	—	—	—	A31924CT-ND	14.93	62.19	A31924TR-ND	10,000	67.17/M	1658544-3
Socket	26-22	.050 (1.27)	D	—	—	—	—	A31901CT-ND	52.58	219.09	A31901TR-ND	10,000	236.62/M	1658543-3
Pin	24-20	.060 (1.52)	A	A1679-ND	2.63	23.52	66506-9	A1679CT-ND	13.80	57.50	A1679TR-ND	10,000	62.10/M	66506-3
Socket	24-20	.060 (1.52)	A	A1680-ND	2.77	24.78	66504-9	A1680CT-ND	18.15	75.63	A1680TR-ND	10,000	81.68/M	66504-3
Pin	24-20	.060 (1.52)	C	A31910-ND	3.06	24.51	1658539-3	A31910CT-ND	11.44	47.65	A31910TR-ND	10,000	51.47/M	1658539-1
Socket	24-20	.060 (1.52)	C	A31905-ND	4.49	35.91	1658537-4	A31905CT-ND	17.09	71.23	A31905TR-ND	10,000	76.93/M	1658537-3
Pin	24-20	.060 (1.52)	B	A1008-ND	3.70	33.10	1-66506-0	A1008CT-ND	17.11	71.29	A1008TR-ND	10,000	77.00/M	66506-4
Socket	24-20	.060 (1.52)	B	A1009-ND	3.59	32.16	1-66504-0	A1009CT-ND	16.23	67.64	A1009TR-ND	10,000	73.05/M	66504-4
Pin	24-20	.060 (1.52)	D	A31911-ND	3.00	23.99	1658539-4	A31911CT-ND	10.86	45.25	A31911TR-ND	10,000	48.87/M	1658539-2
Pin	28-24	.040 (1.02)	C	—	—	—	—	A99329CT-ND	28.02	116.76	A99329TR-ND	12,500	126.11/M	166054-1
Socket	24-20	.060 (1.52)	C	—	—	—	—	A99330CT-ND	36.08	150.31	A99330TR-ND	12,500	162.34/M	166051-1
Socket	28-24	.040 (1.02)	C	—	—	—	—	A99331CT-ND	36.55	152.28	A99331TR-ND	12,500	164.46/M	166052-1
Pin	24-20	.060 (1.52)	C	—	—	—	—	A99332CT-ND	27.45	114.39	A99332TR-ND	12,500	123.54/M	166053-1
Without Insulation Support														
Socket	28-24	.068 (1.73)	A	—	—	—	—	A23055CT-ND	53.68	223.66	A23055TR-ND	10,000	241.56/M	205311-3
Pin	24-20	.068 (1.73)	A	—	—	—	—	A23017CT-ND	27.11	112.94	A23017TR-ND	10,000	121.98/M	205202-2
Socket	24-20	.068 (1.73)	B	—	—	—	—	A5805CT-ND	24.71	102.95	A5805TR-ND	10,000	111.19/M	205201-6
Pin	22-18	.068 (1.73)	A	—	—	—	—	A5802CT-ND	51.69	215.36	A5802TR-ND	10,000	232.60/M	745229-2
Socket	22-18	.068 (1.73)	A	—	—	—	—	A5804CT-ND	22.19	92.48	A5804TR-ND	10,000	99.88/M	745230-2
Socket	22-18	.040 (1.02)	B	A35203-ND	7.94	63.51	745230-7	A35203CT-ND	31.34	130.60	A35203TR-ND	10,000	141.05/M	745230-5
Pin	22-18	.068 (1.73)	C	—	—	—	—	A31923CT-ND	17.11	71.28	A31923TR-ND	10,000	76.98/M	1658541-1
Socket	22-18	.068 (1.73)	C	—	—	—	—	A31900CT-ND	29.00	120.85	A31900TR-ND	10,000	130.52/M	1658542-2

Description	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tool for D-Sub Contacts with Die	A9990-ND	259.20	58448-2
Die Set for D-Sub Contacts, use with A9996	A9814-ND	207.90	58448-3
PRO-CRIMPER III Hand Tool without Die	A9996-ND	45.36	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.93	91067-2

AMPLIMITE® D-Sub Connectors

HDP-20 Solder Post Pins and Sockets

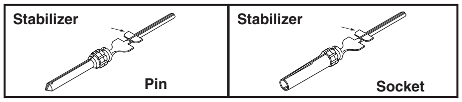

.025" (0.64mm) Square Posted, Snap-In, Precision Formed
Pin Diameter: .040" (1.02mm)

Material: Pin: Brass **Socket:** Phosphor bronze **Plated: A:** Duplex plated 30μ gold on mating end with entire contact 50μ minimum nickel underplated; **B:** Duplex plated gold flash on mating end with entire contact 50μ minimum nickel underplated

Description	Contact Finish	Post Length*	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Socket	A	.125" (3.18mm)	A31913-ND	.21	.17	5-745288-5
Pin	A	.188" (4.78mm)	A35204-ND	.17	.14	5-745287-4
Pin	A	.427" (10.85mm)	A34115-ND	.75	.52	4-745287-7
Socket	A	.427" (10.85mm)	A31914-ND	.68	.54	5-745288-8
Socket	B	.427" (10.85mm)	A34116-ND	.22	.16	7-745288-2
Pin	A	.651" (16.54mm)	A34117-ND	.30	.21	5-745287-0
Socket	A	.651" (16.54mm)	A31912-ND	.24	.19	5-745288-1

* Length of post extending from rear of HDP-20 metal-shell Connector

HDP-20 Solder Cup Type Pins and Sockets

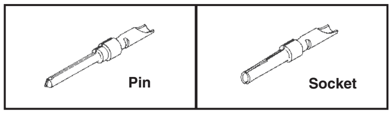

Pin Diameter: .040" (1.02mm)
Material: Pin: Brass per MIL-C-50 **Socket:** Phosphor bronze per QQ-B-750
Finish: Selective gold, 30μ gold over 50μ nickel

Description	Digi-Key Part No.	Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 10,000	AMP Part No.
Pin, 18 AWG	A1028-ND A1028CT-ND†	4.86 4.38	29.90 40.40	— A1028TR-ND	— 181.81/M	66570-3 66570-2
Socket, 18 AWG	A1029-ND A1029CT-ND†	5.28 5.52	47.29 50.94	— A1029TR-ND	— 229.22/M	66569-3 66569-2
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.93/1		—	—	91067-2

† Cut Tape

HDP-20 Connector Pins

Material: Brass

Finish: Duplex plated 10μ minimum gold in the mating area, 30μ min. tin in the termination area, all over 30μ minimum nickel underplating

AWG	Insulation Diameter Inch (mm)	AMP Part No.
28-24	.040 (1.02)	1658540-3
24-20	.060 (1.52)	1658539-5

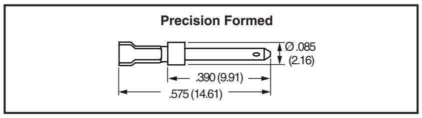

Digi-Key Part No.	Cut Strip Pricing 100	500	Strip Tape & Reel* Pricing/10,000	AMP Part No.
A31915CT-ND	10.46	43.56	47.05/M	1658539-5
A31916CT-ND	9.45	39.38	42.53/M	1658540-3

* For Tape and Reel part number, change CT-ND to TR-ND.

HD-20 Solder Cup

Connector comes complete with pins and sockets. Accepts 20 AWG or smaller solid or stranded wire.

Material and Finish:

Shell: Steel, tin or zinc plated
Insert: 94V-0 rated thermoplastic, black
Contacts: Phosphor bronze; duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated

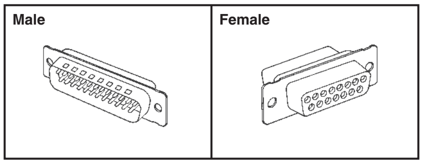

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated Shell					
9	Male	A32507-ND	3.60	3.00	5-747904-2
	Female	A32510-ND	3.15	2.63	5-747905-2
15	Male	A32503-ND	3.12	2.60	5-747908-2
	Female	A32504-ND	5.31	4.43	5-747909-2
25	Female	A32508-ND	5.16	4.30	5-747913-2
37	Male	A32506-ND	6.51	5.43	5-747916-2
	Female	A34114-ND	7.98	6.65	5-747917-2
Zinc Plated Shell					
25	Male	A32505-ND	4.38	3.65	5-747912-2

HDE-20 Socket

Interchangeable Contacts, Crimp Snap-In Precision Formed

Material: Phosphor bronze

Finish: Duplex plated 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated

Wire Size: 22-18 AWG

Insulation Diameter: Single Wire: .075" (1.91mm), Two Wire: .054" (1.37mm)

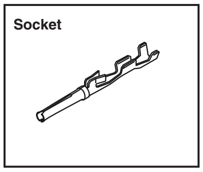

Digi-Key Part No.	Cut Strip Pricing 100	500	Strip Tape & Reel* Pricing/10,000	AMP Part No.
A34119CT-ND	29.90	124.59	134.56/M	1-745270-1

* For Tape and Reel part number, change CT-ND to TR-ND.

HD-22 Front Metal-Shell Straight Posted

- **Shell:** steel, tin plated
- **Housing:** 94V-0 rated thermoplastic, black
- **Pin Contacts (Posted) Brass:** 30μ" gold on mating end, tin-lead, with entire contact 50μ minimum nickel underplated

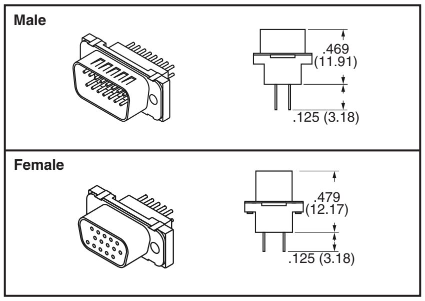

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
4-40 Threaded Inserts					
15	Male	A31928-ND	7.02	5.85	5749798-1
26	Female	A31964-ND	20.31	16.93	5749030-1
62	Female	A31963-ND	32.40	27.00	5747786-6

HDE-20 IDC Discrete Wire Type, Metal/Plastic Shell

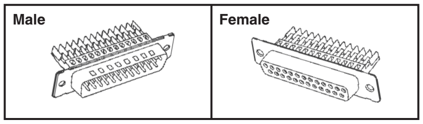

Material and Finish: Metal Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Plastic Housing: 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Contact Finish: Duplex plated; **A:** 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Metal Shell for 30-26 AWG Wire						
9	Male	A	A31965-ND	5.10	4.25	1-745492-7
	Female	A	A31973-ND	4.47	3.73	1-745491-6
15	Male	A	A31967-ND	5.49	4.58	1-745494-7
	Female	A	A31976-ND	6.63	5.53	1-745493-6
25	Male	A	A31969-ND	9.69	8.08	1-745496-9
	Female	A	A31978-ND	6.96	5.80	1-745495-7
37	Male	A	A31972-ND	13.44	11.20	1-745498-6
	Female	A	A31981-ND	10.38	8.65	1-745497-6
Metal Shell for 26-22 AWG Wire						
9	Male	A	A31930-ND	5.01	4.18	1-745492-8
	Female	A	A31931-ND	4.35	3.63	1-745491-7
	Male	B	A31929-ND	10.53	8.78	2-745492-0
	Female	B	A31975-ND	4.32	3.60	1-745491-8
15	Male	A	A34118-ND	5.64	4.70	1-745494-5
	Female	A	A31932-ND	5.58	4.65	1-745493-4
	Male	B	A31968-ND	5.88	4.90	1-745494-6
	Female	B	A31977-ND	7.20	6.00	1-745493-5
25	Male	A	A31933-ND	7.71	6.43	1-745496-7
	Female	A	A31934-ND	7.44	6.20	1-745495-8
	Male	B	A31971-ND	7.56	6.30	1-745496-8
	Female	B	A31980-ND	14.40	12.00	2-745495-0
37	Male	A	A31935-ND	12.84	10.70	1-745498-5
	Female	A	A31936-ND	9.90	8.25	1-745497-5
	Female	B	A35212-ND	12.60	10.50	1-745497-7
Metal Shell for 22-20 AWG Wire						
9	Male	A	A31966-ND	5.10	4.25	1-745492-9
	Female	A	A31974-ND	6.00	5.00	1-745491-9
25	Male	A	A31970-ND	11.52	9.60	2-745496-0
	Female	A	A31979-ND	14.04	11.70	1-745495-9
Plastic Shell for 26-22 AWG Wire						
9	Male	A	A31937-ND	4.50	3.75	745203-9
	Female	A	A31938-ND	5.16	4.30	745201-7
	Male	B	A35210-ND	3.90	3.25	1-745203-1
	Female	B	A35211-ND	12.60	10.50	745201-9
15	Male	A	A31939-ND	7.02	5.85	745207-7
	Female	A	A31940-ND	4.56	3.80	745205-7
25	Male	A	A31941-ND	12.60	10.50	745211-7
	Female	A	A31942-ND	5.40	4.50	745209-7

Description	Digi-Key Part No.	Price Each	AMP Part No.
Manual Pistol Grip Tool for Metal and All-Plastic Shell Connectors	A2031-ND	63.72	58074-1
Head Assembly Tool for D-Sub IDC Connectors	A2032-ND	227.85	58063-2

(Continued)

Series 109 Connectors for Crimp, Snap-In Contacts

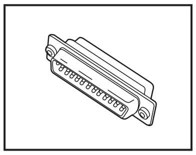

(Per MIL-C-24308 Qualified Connectors)

Class G steel shell has cadmium plating per ASTM-B633.
- **Pins and Sockets Sold Separately**
- **Only use sockets for Series 109 Connectors**

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Crimp Type			
9	Male	A34120-ND	4.65	3.88	1757819-1
	Female	A32575-ND	4.65	3.88	1757820-1
15	Male	A32577-ND	5.43	4.53	1757819-2
	Female	A32576-ND	5.43	4.53	1757820-2
25	Male	A32578-ND	5.94	4.95	1757819-3
	Female	A34121-ND	5.94	4.95	1757820-3
37	Male	A34122-ND	7.56	6.30	1757819-4
	Female	A34123-ND	7.56	6.30	1757820-4
50	Male	A34124-ND	9.36	7.80	1757819-5
	Female	A34125-ND	9.36	7.80	1757820-5

Series 109 Screw-Machined Pins and Sockets

Crimp Type:
- Pin Diameter: .040" (1.02mm)

Material:
- Pin Body: Copper Alloy
- Socket Body: Beryllium Copper
- Finish: 50μ Gold
- Contact Size: 20 DM
- Pin Diameter: .040" (1.02mm)
- Test Current: 7.5 amperes

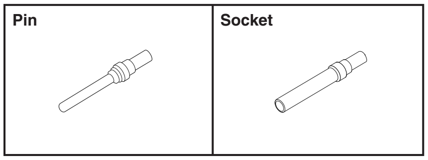

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
	50μ Gold			
Pin (24~20 AWG)	A2160-ND	1.24	.77	205089-1
Socket (24~20 AWG)	A2161-ND	1.74	1.07	205090-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for Series 109 D-Sub Crimp Contacts	A1010-ND	5.93	91067-2
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	450.30	601966-1
Positioner (Use with A9977-ND)	A9797-ND	56.97	601966-5

High Density D-Sub Connectors

HDP-22 Crimp Type Tin Plated Shell

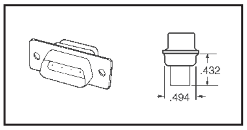

Electrical Characteristics:
- Contact Rating: 5.0 amperes
- Dielectric Strength: 1000VAC minimum
- Insulation Resistance: 5000MΩ minimum

Mechanical Characteristics:
- Contact Insertion Force: 3 pounds maximum
- Durability: 30μ gold: 500 cycles; Gold Flash: 100 cycles

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	Male	A2076-ND	2.90	2.42	748364-1
	Female	A31948-ND	3.24	2.70	1658681-1
26	Male	A31944-ND	3.87	3.23	1658671-1
	Female	A31949-ND	4.53	3.78	1658682-1
44	Male	A31945-ND	5.22	4.35	1658672-1
	Female	A31950-ND	9.69	8.08	1658683-1
62	Male	A31946-ND	5.34	4.45	1658673-1
	Female	A31951-ND	6.45	5.38	1658684-1
78	Male	A31947-ND	5.85	4.88	1658674-1
	Female	A31952-ND	7.92	6.60	1658685-1

SCSI Terminators

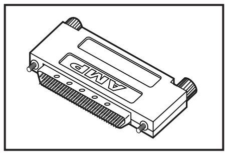

Active Negation:

Used by SCSI-2 and SCSI-3 Drivers and Receivers in single-ended active applications to help ensure clean, noise-free transitions of the signals.

These terminators can source as well as sink current, thereby maintaining voltage control.

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Active Negation Compatible				
68	.050" (1.27mm) Center-Line Ribbon Cable SCSI-3	A32160-ND	36.92	29.85	1696105-1

HDP-22 Pins and Sockets

CRIMP TYPE:
Pin Diameter: .030" (.76mm)

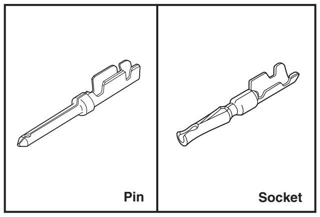

MATERIAL:
Pin: Brass
Socket: Phosphor bronze
Finish:
- **30μ Gold:** Duplex plated 30μ gold on mating end, tin-lead on crimp barrel, with entire contact nickel underplated
- **Gold Flash:** Duplex plated gold flash on mating end, tin-lead on crimp barrel, with entire contact nickel underplated

Description	Digi-Key Part No.	Pricing 10	100	AMP Part No.
Pin (22-28 AWG), 30μ Gold	A31954-ND	2.19	17.55	1658670-2
Socket (22-28 AWG), 30μ Gold	A31955-ND	2.19	17.55	1658686-2
Pin (22-28 AWG), Gold Flash	A31953-ND	1.54	12.35	1658670-4
Socket (22-28 AWG), Gold Flash	A31956-ND	2.22	17.75	1658686-4

Description	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T&R Pricing 20,000	AMP Part No.
Socket (22-28 AWG), Gold Flash	A31956CT-ND	13.56	56.50	A31956TR-ND	61.02/M	1658686-3
Pin (22-28 AWG), 30μ Gold	A31954CT-ND	9.24	38.50	A31954TR-ND	41.58/M	1658670-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Contact Insertion/Extraction Tool	A9979-ND	12.15	91285-1
PRO-CRIMPER III Hand with Die for HDP-22 Contacts	A9815-ND	259.20	90800-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
PRO-CRIMPER III Hand Tool without Die	A9996-ND	45.36	354940-1

High Density D-Sub Connectors

HD-22 Right Angle

Electrical Characteristics:
- Single Contact Current Rating: 2.0 amperes
- Dielectric Withstanding Voltage: 1000VAC minimum

Material and Finish:
- Front Shell: Steel, tin plated
- Housing: 94 V-0 rated
- Socket Contacts: Phosphor bronze
- Contact Finish: Duplex Plated: 30μ gold mating end, tin-lead on termination end, with entire contact nickel underplated

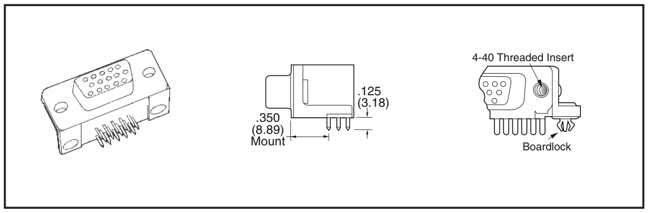

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Threaded Inserts with Boardlocks			
15	Male	A31927-ND	8.37	6.98	5749767-1
15	Female	A35116-ND‡	1.97	1.64	1-1734530-1
15	Female	A35119-ND‡	2.63	2.20	1734344-1
26	Female	A31925-ND	8.07	6.73	5748481-5
44	Female	A31957-ND▲	10.08	8.40	5748482-5
62	Male	A31926-ND	19.11	15.93	5749639-1
62	Female	A31958-ND▲	14.55	12.13	5748394-5
78	Female	A31962-ND	39.69	33.08	5748483-5
		Screwlocks with Boardlocks			
15	Female	A35118-ND	3.36	2.80	1734530-3
26	Female	A31961-ND	8.46	7.05	5748481-6
62	Female	A31960-ND	16.86	14.05	5748394-6
		Threaded Inserts without Boardlocks			
26	Female	A31959-ND§	9.18	7.65	1-5748481-9

§ .125" (3.18mm) diameter holes ‡ Gold flash on mating end ▲ 15μ gold on mating end

AMP Shielding Hardware Kits

Fig. 1

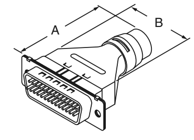

Kit Contents (unassembled): Connector, inner shield, outer shield **(ferrules must be purchased separately)**
Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Contacts: Phosphor bronze • Contact Finish-Duplex Plated: **A**: 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated. **B**: Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

Fig. 2

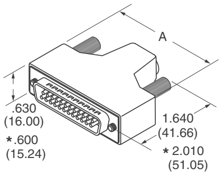

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(ferrules must be purchased separately)**
Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy • Contacts: Phosphor bronze • Contact Finish - Duplex Plated: **A**: 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated **B**: Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

Fig. 3

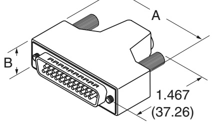

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately)**
Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy

Fig. 4

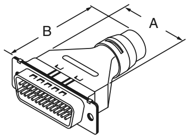

Kit Contents (unassembled): Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately)**
Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated

Fig. 5

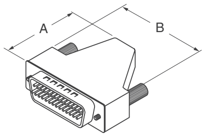

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately)**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy HDP-22 contacts are to be used.

Fig. 6

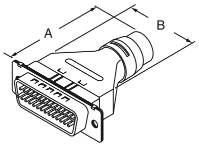

Kit Contents (unassembled): Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately)**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated HDP-22 contacts are to be used.

Fig.	No. of Pos.	Max. Cable Diameter (mm)†	Sex	Contact Finish	AWG	Dimensions - mm		Digi-Key Part No.	Price Each		AMP Part No.
						A	B		1	25	
HDE-20 Basic Shielding Hardware Kits											
1	9	8.89	Male	A	26-22	38.61	17.22	A31540-ND	7.38	6.15	747515-7
	9	8.89	Female	A	26-22	38.61	17.22	A31541-ND	7.11	5.93	747516-7
	9	8.89	Female	B	26-22	38.61	17.22	A35213-ND	6.84	5.70	747516-9
	25	8.89	Female	A	26-22	38.61	39.37	A31543-ND	9.33	7.78	747548-8
	25	8.89	Male	B	26-22	38.61	39.37	A31509-ND	11.58	9.65	1-747547-0
	25	8.89	Female	B	26-22	38.61	39.37	A31544-ND	5.82	4.85	747548-9
HDE-20 Basic Shielding Hardware Enclosure Kits											
2	9	8.89	Male	A	26-22	34.42	—	A31512-ND	10.02	8.35	1-747944-5
	9	8.89	Male	B	26-22	34.42	—	A31513-ND	11.82	9.85	1-747944-6
	9	8.89	Female	A	30-26	34.42	—	A31510-ND	11.22	9.35	1-747943-5
	9	8.89	Female	A	26-22	34.42	—	A31511-ND	8.70	7.25	1-747943-6
	9	8.89	Female	B	26-22	34.42	—	A35216-ND	8.79	7.33	1-747943-7
	15	8.89	Male	B	26-22	42.80	—	A31515-ND	10.26	8.55	1-747946-6
	15	8.89	Female	A	30-26	42.80	—	A31514-ND	10.80	9.00	1-747945-5
	15	8.89	Male	A	26-22	42.80	—	A35214-ND	22.44	18.70	1-747946-5
	25	8.89	Male	A	30-26	56.13	—	A31518-ND	11.67	9.73	1-747948-5
	25	8.89	Male	A	26-22	56.13	—	A31519-ND	26.88	22.40	1-747948-6
	25	8.89	Male	B	26-22	56.13	—	A31520-ND	11.28	9.40	1-747948-8
	25	8.89	Female	A	26-22	56.13	—	A31516-ND	28.80	24.00	1-747947-6
	25	8.89	Female	B	26-22	56.13	—	A31517-ND	20.25	16.88	1-747947-7
	37	14.27	Male	A	26-22	72.77	—	A35215-ND◊	22.26	18.55	1-747950-5
HDP-20 Shielding Hardware Enclosure Kits											
3	9	8.89	Male	—	—	34.42	16.00	A31493-ND	9.24	7.70	1658655-1
	9	8.89	Female	—	—	34.42	16.00	A31492-ND	9.30	7.75	1658654-1
	15	8.89	Male	—	—	42.80	16.00	A31495-ND	9.60	8.00	1658657-1
	15	8.89	Female	—	—	42.80	16.00	A31494-ND	9.66	8.05	1658656-1
	25	8.89	Male	—	—	56.13	16.00	A31497-ND	10.14	8.45	1658659-1
	25	8.89	Female	—	—	56.13	16.00	A31496-ND	10.20	8.50	1658658-1
	37	11.43	Male	—	—	72.77	18.54	A31530-ND	13.20	11.00	5747958-1
	37	11.43	Female	—	—	72.77	18.54	A31498-ND	12.63	10.53	1658660-1
	50	11.43	Male	—	—	70.49	18.54	A31499-ND	14.52	12.10	1658661-1
	50	11.43	Female	—	—	70.49	18.54	A31531-ND	13.44	11.20	5747959-1
HDP-20 Basic Shielding Hardware Kits											
4	9	8.89	Male	—	—	17.78	38.99	A31483-ND	2.50	2.08	1648645-1
	9	8.89	Female	—	—	17.78	38.99	A31484-ND	1.99	1.66	1658646-1
	9	8.89	Male	—	—	17.78	38.99	A31536-ND‡	7.02	5.85	5748526-1
	15	8.89	Male	—	—	26.01	38.99	A31485-ND	2.74	2.28	1658647-1
	15	8.89	Female	—	—	26.01	38.99	A31529-ND	2.68	2.23	5747539-1
	15	8.89	Male	—	—	26.01	38.99	A35201-ND‡	6.24	5.20	5750636-1
	25	8.89	Male	—	—	40.03	38.99	A31486-ND	3.13	2.61	1658648-1
	25	8.89	Female	—	—	40.03	38.99	A31487-ND	3.06	2.55	1658649-1
	25	8.89	Female	—	—	40.03	38.99	A31500-ND‡	7.56	6.30	1658662-1
	37	11.43	Male	—	—	56.26	48.06	A31488-ND	5.34	4.45	1658650-1
	37	11.43	Female	—	—	56.26	48.06	A31489-ND	6.36	5.30	1658651-1
	37	11.43	Male	—	—	56.26	48.06	A35202-ND‡	8.46	7.05	5786929-1
	44	11.43	Female	—	—	40.03	38.99	A35207-ND	10.41	8.68	5748636-1
	50	11.43	Male	—	—	53.85	47.65	A31490-ND	10.65	8.88	1658652-1
	50	11.43	Female	—	—	53.85	47.65	A31491-ND	6.51	5.43	1658653-1
HDP-22 Shielding Hardware Enclosure Kits – Crimp Snap-In Contact Connectors											
5	15	8.89	Male	—	—	41.66	34.42	A31504-ND	9.96	8.30	1658678-1
	15	8.89	Female	—	—	41.66	34.42	A31507-ND	12.45	10.38	1658688-1
	26	8.89	Male	—	—	41.66	42.80	A31505-ND	11.34	9.45	1658679-1
	26	8.89	Female	—	—	41.66	42.80	A31508-ND	14.82	12.35	1658689-1
	44	8.89	Male	—	—	41.66	56.13	A35208-ND	12.51	10.43	1658680-1
	44	8.89	Female	—	—	41.66	56.13	A35209-ND	14.73	12.28	5748641-1
	62	11.43	Male	—	—	41.66	72.64	A31534-ND	14.85	12.38	5748476-1
	62	11.43	Female	—	—	51.05	72.64	A31538-ND	18.30	15.25	5748642-1
	78	11.43	Male	—	—	51.05	70.36	A31535-ND	17.88	14.90	5748477-1
HDP-22 Basic Shielding Hardware Kits – Crimp Snap-In Contact Connectors											
6	15	8.89	Male	—	—	38.99	17.78	A31501-ND	2.99	2.50	1658675-1
	15	8.89	Female	—	—	38.99	17.78	A31537-ND	3.74	3.12	5748634-1
	26	8.89	Male	—	—	38.99	26.01	A31502-ND	8.01	6.68	1658676-1
	26	8.89	Female	—	—	38.99	26.01	A31506-ND	7.86	6.55	1658687-1
	44	8.89	Male	—	—	38.99	40.03	A31503-ND	8.10	6.75	1658677-1
	62	11.43	Male	—	—	48.06	56.26	A31532-ND	10.89	9.08	5748471-1

† Maximum cable diameter after jacket and braid removed ‡ Clinch Nut Mounting Method ◊ See drawing for dimensions

AMPLIMITE®

Die Sets and Ferrules for Shielding Hardware Kits

Material and Finish: Steel (annealed), tin plated

Stepped

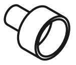

Straight

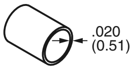

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
Stepped Ferrules					
.165 ~ .246 (4.19 ~ 6.25)	.440 (11.18)	A31524-ND	.47	.39	3-747579-0
.230 ~ .265 (5.84 ~ 6.73)	.625 (15.88)	A31546-ND	12.60	10.50	2-747580-4
.246 ~ .324 (6.25 ~ 8.23)	.440 (11.18)	A31525-ND	.36	.30	3-747579-2
.324 ~ .375 (8.23 ~ 9.53)	.440 (11.18)	A31526-ND	.41	.32	3-747579-4
.375 ~ .432 (9.53 ~ 10.97)	.625 (15.88)	A31522-ND	1.14	.95	2-747580-1
.422 ~ .49 (10.72 ~ 12.45)	.625 (15.88)	A31528-ND	1.41	1.18	3-747580-1
Straight Ferrules					
.375 ~ .435 (9.53 ~ 11.05)	.440 (11.18)	A31521-ND	2.91	2.43	2-747579-7
.400 ~ .455 (10.16 ~ 11.56)	.440 (11.18)	A31527-ND	.91	.76	3-747579-6
.480 ~ .562 (12.19 ~ 14.28)	.625 (15.88)	A31523-ND	.91	.76	2-747580-2

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tooling Stepped Ferrule Die Sets				
.217 ~ .246 (5.51 ~ 6.25)	.440 (11.18)	A23579-ND	470.99	543424-8
.246 ~ .284 (6.25 ~ 7.21)	.440 (11.18)	A23580-ND	445.10	543424-1
Hand Crimping Tool (for above die sets)		A23576-ND	745.50	543344-1

AMP Hoods

Fig. 1

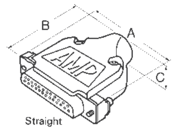

Die Cast Shield: Zinc alloy, plated nickel over copper **Metal-Plated Plastic Shield:** Thermoplastic, plated nickel over copper **Plastic Shield:** Thermoplastic, black

Fig. 2

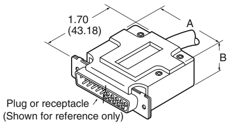

Cable Clamp Housing: Thermoplastic, black with textured finish **Gates:** Thermoplastic, black **Flat Head Screws:** Steel, black, zinc plated

Fig. 3

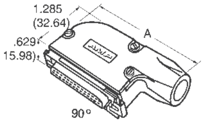

ETHERNET Slide-locking hood. 90° exit RFI/EMI die cast shields **Shield:** Zinc alloy, plated nickel over copper

Fig. 4

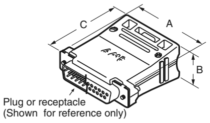

Cable Clamp Housing: Thermoplastic **4-40 Mounting Screws:** Steel, zinc plated **Flat 4-40 Housing Screws:** Steel, zinc plated

Fig. 5

Plastic Shield: Each kit contains: 1-Hinged Plastic Clamp, 2-Retention Screws, 2-Retention Clips, 1-Cable Gate Plug, 1-Strain Relief Clip, 2-Self Tapping Screws, 1-Connector and Contacts. **Material and Finish: Cover:** Polypropylene, black. **Retention/Self-Tapping Screws:** Steel, zinc plated. **Retention Clips/Strain Relief Clip:** Stainless steel. **Cable Gate Plug:** Polypropylene.

Plastic Shield with Connector: Each kit contains: 1-Hinged Plastic Clamp, 2-Self Tapping Screws, 1- Strain Relief Clip, 1-Cable exit gate plug (used to close unused exit). **Material and Finish: Cover:** Polypropylene, black. **Strain Relief Clip:** Stainless steel. **Retainer Clip:** Stainless steel. **Screws:** Carbon steel, zinc plated

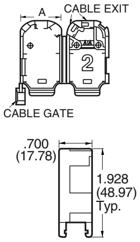

Fig. 6

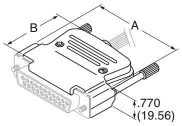

Cable Clamp Housing: Polyester, black **4-40 Fillister Head Screws & Hex Nuts:** Steel, clear zinc plated **Jack Screws:** Steel, black zinc plated

Fig. 7

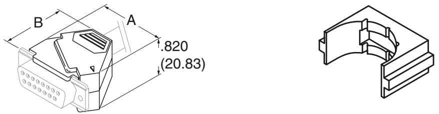

(Straight Cable Exit Shown)

Straight/90° Exit Cable Clamps can be used on a plug or receptacle and will not interfere with commonly used mating hardware. Their three-piece construction allows easy assembly to a cable harness. Also, the same cable clamp components are used for both straight and 90° cable exit applications. This is accomplished by simply positioning the Male and Female Panels on the Yoke for the desired angle. **Material:** Thermoplastic, black

Fig. 8

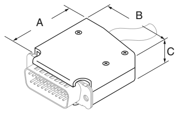

Straight/45° Exit Cable Clamps can be used on either a plug or receptacle and will not interfere with commonly used hardware, such as Male Screw Retainers, Female Screw-locks or Spring Latches and Latching Blocks. Their hinged construction allows easy assembly to a harness. Also, the straight or 45° angle of the cable exit is achieved by merely positioning the Cable Support Gate for the desired angle prior to installing the assembly onto the plug or receptacle.

Material and Finish: Cable Clamp Housing: Thermoplastic, black with textured finish **Gates:** Thermoplastic, black **Pan Head Screw, 6-32 Set Screw and 6-32 Square Nut:** Steel, zinc plated (9 & 15 positions include self-tapping screws only)

Fig. 9

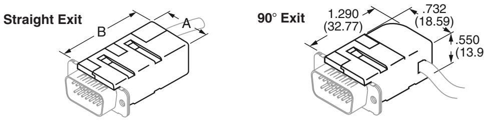
Straight Exit

90° Exit

Low Profile Cable Clamps feature a two piece construction which allows the two cover halves to be snapped together, no hardware is required for assembly. They can be used on plugs or receptacles and will not interfere with commonly used mating hardware. Sufficient Cable Support Gates (or a Cable Support Latch) are supplied with each cable clamp kit to achieve adjustable clamping over a wide range of jacketed cable diameters. **Material:** Thermoplastic, black

Note: To be used with HDE connectors only

Fig. 10

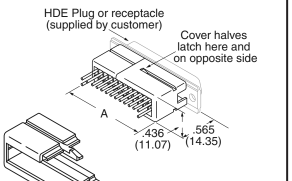

Material: Thermoplastic, black

Fig.	No. of Pos.	Dimensions Inch (mm)			Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	25	
Shielded Straight Shell with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.320 (8.13)	Die Cast	A34126-ND†	7.53	6.28	5748676-1
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.320 (8.13)	Metal Plated	A34127-ND†	5.52	4.60	5748677-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Die Cast	A34128-ND†	6.42	5.35	5748676-2
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Metal Plated	A34129-ND†	8.22	6.85	5748677-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Metal Plated	A34130-ND†	5.88	4.90	5748677-3
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Die Cast	A34131-ND†	12.00	10.00	5748676-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Die Cast	A34132-ND†	6.99	5.83	5748676-4
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Metal Plated	A34133-ND†	8.49	7.08	5748677-4
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.470 (11.94)	Die Cast	A34134-ND†	11.61	9.68	5748676-5
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.470 (11.94)	Metal Plated	A34135-ND†	17.16	14.30	5748677-5
Shielded Straight Shell (Must Order Ferrule & Grommets Separately)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.200 (5.08)	Die Cast	A34136-ND	7.59	6.33	5745171-2
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.200 (5.08)	Metal Plated	A34137-ND	6.66	5.55	5745854-5
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.250 (6.35)	Die Cast	A34138-ND	7.89	6.58	5745171-1
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.250 (6.35)	Metal Plated	A34139-ND	5.01	4.18	5745854-3
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.370 (9.40)	Die Cast	A34140-ND	7.23	6.03	5745171-5
	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.370 (9.40)	Metal Plated	A34141-ND	5.10	4.25	5745854-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.225 (5.72)	Die Cast	A34142-ND	9.30	7.75	5745172-3
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.300 (7.62)	Die Cast	A34144-ND	8.31	6.93	5745172-2
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.300 (7.62)	Metal Plated	A34145-ND	7.32	6.10	5747099-5
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.375 (9.53)	Die Cast	A34146-ND	8.61	7.18	5745172-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.375 (9.53)	Metal Plated	A34147-ND	6.00	5.00	5747099-3
1	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.430 (10.92)	Die Cast	A34148-ND	11.04	9.20	1-5745172-3
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.430 (10.92)	Metal Plated	A34149-ND	7.56	6.30	5747099-1
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.280 (7.11)	Die Cast	A34151-ND	11.01	9.18	5745173-5
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.280 (7.11)	Metal Plated	A34152-ND	5.16	4.30	5745833-9
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.350 (8.89)	Die Cast	A34153-ND	11.16	9.30	5745173-4
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.350 (8.89)	Metal Plated	A34154-ND	7.38	6.15	5745833-7
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.430 (10.92)	Die Cast	A34155-ND	11.19	9.33	5745173-3
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.430 (10.92)	Metal Plated	A34156-ND	4.56	3.80	5745833-5
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.480 (12.19)	Die Cast	A34157-ND	8.34	6.95	5745173-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.530 (13.46)	Metal Plated	A34158-ND	7.50	6.25	5745833-1
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.350 (8.89)	Die Cast	A34159-ND	10.35	8.63	5745174-5
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.425 (10.80)	Die Cast	A34160-ND	7.71	6.43	5745174-4
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.500 (12.70)	Die Cast	A34161-ND	8.40	7.00	5745174-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.575 (14.61)	Die Cast	A34163-ND	9.99	8.33	5745174-2
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.650 (16.51)	Die Cast	A34165-ND	8.76	7.30	5745174-1
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.650 (16.51)	Metal Plated	A34166-ND	6.84	5.70	5747100-1
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.450 (11.43)	Die Cast	A34167-ND	11.07	9.23	5745175-5
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.525 (13.34)	Die Cast	A34168-ND	7.62	6.35	5745175-4
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.600 (15.24)	Die Cast	A34169-ND	7.68	6.40	5745175-3
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.675 (17.15)	Die Cast	A34170-ND	8.34	6.95	5745175-2
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.750 (19.05)	Die Cast	A34171-ND	8.94	7.45	5745175-1
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.750 (19.05)	Metal Plated	A35217-ND	9.66	8.05	5747098-1

† Sold as a kit; complete with Ferrule and Grommets

(Continued)

Fig.	No. of Pos.	Dimensions Inch (mm)			Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	25	
Straight Shield with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.570 (14.48)	.320 (8.13)	Plastic, Black	A34172-ND†	3.92	3.27	5748678-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Plastic, Black	A34173-ND†	5.82	4.85	5748678-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Plastic, Black	A34174-ND†	3.00	2.50	5748678-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Plastic, Black	A34175-ND†	4.98	4.15	5748678-4

† Sold as a kit; complete with Ferrule and Grommets

Fig.	No. of Pos.	Dimensions Inch (mm)		Max. Cable Diameter Inch (mm)	Descrip-tion (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B				1	25	
Shield Straight / 90° Shield (Hardware Included)									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A9001-ND	3.36	2.80	207467-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A9002-ND	6.48	5.40	207470-1
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A9003-ND	3.18	2.65	207345-1
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A9004-ND	5.52	4.60	207473-1
	50	2.178 (55.32)	.880 (22.35)	.490 (12.45)	Plastic	A2060-ND	5.43	4.53	207476-1
Plastic Shield with Male Screw Retainers (Hardware Included)									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A33653-ND	3.65	3.05	5207908-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A33654-ND	4.55	3.79	5207908-4
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A33655-ND	4.15	3.46	5207908-7
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A33656-ND	7.11	5.93	1-5207908-0

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
						1	25	
90° Shell - Hardware Included (Must Order Ferrule Separately)								
3	15	2.310 (58.67)	.225 (5.72)	Die Cast	A33657-ND	16.68	13.90	5745652-4
	15	2.310 (58.67)	.300 (7.62)	Die Cast	A33658-ND	12.27	10.23	5745652-3
	15	2.310 (58.67)	.375 (9.53)	Die Cast	A33659-ND	14.52	12.10	5745652-2
	15	2.310 (58.67)	.430 (10.92)	Die Cast	A33660-ND	16.08	13.40	5745652-1
	25	2.850 (72.39)	.280 (7.11)	Die Cast	A33661-ND	15.72	13.10	5745653-5
	25	2.850 (72.39)	.355 (9.02)	Die Cast	A33662-ND	15.72	13.10	5745653-4
	25	2.850 (72.39)	.430 (10.92)	Die Cast	A33663-ND	15.48	12.90	5745653-3
	25	2.850 (72.39)	.480 (12.19)	Die Cast	A33664-ND	22.50	18.75	5745653-2
	25	2.850 (72.39)	.530 (13.46)	Die Cast	A33665-ND	19.56	16.30	5745653-1

Fig.	No. of Pos.	Dimensions Inch (mm)			Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	25	
Straight / 90° Shield (Hardware Included)										
4	15	1.550 (39.37)	.826 (20.98)	1.750 (44.45)	.350 (8.89)	Plastic, Gray	A33666-ND	3.54	2.95	5206471-1
	25	2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.335 (8.51)	Plastic, Gray	A33667-ND	3.54	2.95	5206472-1
	25	2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.460 (11.68)	Plastic, Gray	A33668-ND	3.33	2.78	5745134-1
	37	2.738 (69.55)	.826 (20.98)	1.750 (44.45)	.675 (17.15)	Plastic, Gray	A33669-ND	3.90	3.25	5745081-1
	50	2.644 (67.16)	.938 (23.83)	1.750 (44.45)	.775 (19.69)	Plastic, Gray	A33670-ND	4.80	4.00	5745082-1

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
						1	25	
Plastic Shield (Hardware Included)								
5	9	.782 (19.86)	.250 (6.35)	with Screws	A33671-ND	3.21	2.68	5749914-2
	9	.782 (19.86)	.250 (6.35)	without Screws	A33672-ND	3.27	2.73	5750100-1
	15	1.105 (28.07)	.380 (9.65)	with Screws	A33673-ND	4.47	3.73	5749915-2
	25	1.650 (41.91)	.460 (11.68)	with Screws	A33674-ND	5.58	4.65	5749626-2
Plastic Shield with Connector (Hardware Included)								
5	25	1.650 (41.91)	.460 (11.68)	Recpt./HDP-20	A32176-ND	10.41	8.68	1-749812-1
	25	1.650 (41.91)	.460 (11.68)	Plug/HDE-20	A32175-ND	10.59	8.83	749809-9
	25	1.650 (41.91)	.460 (11.68)	Recpt./HDE-20	A32177-ND	10.38	8.65	749813-8

Fig.	No. of Pos.	Dimensions Inch (mm)		Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B				1	25	
Unshielded Dataphone									
6	15	1.575 (40.01)	1.312 (33.32)	.400 (10.16)	Straight	A33675-ND	9.81	8.18	5745122-2
	25	2.115 (53.72)	1.421 (36.09)	.500 (12.7)	Straight	A33676-ND	10.17	8.48	5745121-2
7	25	1.906 (48.41) 2.066 (52.48)	1.672 (42.47) 1.396 (35.46)	.550 (13.97)	Straight 90°	A23604-ND	5.61	4.68	745306-1

Fig.	No. of Pos.	Dimensions Inch (mm)			Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	25	
Straight / 45° Exit Unshielded Shell (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A32178-ND	2.81	2.34	5205729-1
	15	1.250 (31.75)	1.073 (27.25)	.580 (14.73)	.320 (8.13)	Plastic	A33677-ND	4.23	3.53	5206393-1
	15	1.625 (41.28)	1.073 (27.25)	.620 (15.75)	.320 (8.13)	Plastic	A33678-ND	2.88	2.40	5205730-1
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A33679-ND	2.58	2.15	5205718-1
	37	1.625 (41.28)	2.263 (57.48)	.620 (15.75)	.490 (12.45)	Plastic	A32179-ND	3.72	3.10	5205731-1
	50	1.625 (41.28)	2.168 (55.07)	.730 (18.54)	.600 (15.24)	Plastic	A33680-ND	3.99	3.33	5205732-1
Straight / 45° Exit Shell with Male Screw Retainers (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A33681-ND	3.11	2.60	5206478-1
	25	1.250 (31.75)	1.615 (41.02)	.580 (14.73)	.420 (10.67)	Plastic	A33682-ND	4.86	4.05	1-5206478-2
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A33683-ND	3.20	2.67	5206478-3

Fig.	No. of Pos.	Dimensions Inch (mm)		Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each		AMP Part No.
		A	B				1	25	
Unshielded Low Profile for Jacketed Cable									
9	9	.732 (18.59)	1.582 (40.18)	.330 (8.38)	Straight	A23592-ND‡	7.65	6.38	745547-1
	9	—	—	.330 (8.38)	90°	A23594-ND‡	3.18	2.65	745550-1
	15	1.056 (26.82)	1.582 (40.18)	.425 (10.80)	Straight	A23595-ND‡	8.31	6.93	745553-1
	25	1.604 (40.74)	1.700 (43.18)	.550 (13.97)	Straight	A23596-ND‡	6.48	5.40	745560-1

‡ To be used with HDE connectors only

Fig.	No. of Positions	Dimension Inch (mm) A	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Unshielded Plastic Slide-On Back Covers						
10	25	1.482 (37.64)	A23600-ND	4.44	3.70	745530-3

AMPLIMITE® Ferrules For Metal Shell Hoods

Split-Ring Ferrules for Foil or Braided Cable Shield

- Material: Aluminum

Crimp Ferrules for Braided Cable Shield

- Material and Finish:
  Outer Ferrule: Copper, plated 100µ minimum tin
  Inner Ferrule: .023" (0.58mm) thick brass, plated 50µ tin over copper

SPLIT RING FERRULE

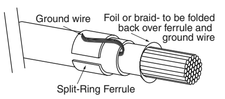
Ground wire
Foil or braid- to be folded back over ferrule and ground wire
Split-Ring Ferrule

CRIMP FERRULE

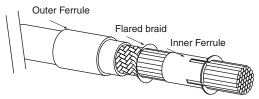

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
Split-Ring Ferrules					
9/15	.225 - .240 (5.72 - 6.10)	A2011-ND	.45	.38	745508-3
9/15/50	.370 - .375 (9.40 - 9.53)	A2019-ND	.46	.39	745508-6
37/50	.560 - .600 (14.22 - 15.24)	A35219-ND	.63	.53	1-745508-0
Inner Crimp Ferrules					
9/15/50	.240 (6.10)	A32165-ND	1.75	1.46	7-745129-0
9/15/50	.280 (7.11)	A32171-ND	2.64	2.20	7-745129-9
9/15/50	.365 - .370 (9.27 - 9.40)	A32164-ND	2.35	1.96	6-745129-9
15/37	.350 (8.90)	A32170-ND	2.20	1.83	7-745129-2
15/37	.430 (10.92)	A32166-ND	4.23	3.53	7-745129-1
37	.525 (13.34)	A32174-ND	3.67	3.06	7-745129-6
25/50	.380 - .430 (9.65 - 10.92)	A35221-ND	3.08	2.57	7-745129-5
Outer Crimp Ferrules					
9/15/25/37/50	.240 (6.10)	A32172-ND	1.39	1.16	3-745130-8
9/15/25/37/50	.280 (7.11)	A32169-ND	1.25	1.04	4-745130-5
9/15/50	.365 - .370 (9.27 - 9.40)	A32167-ND	1.97	1.64	4-745130-0
15/25/37/50	.350 (8.90)	A32173-ND	1.00	.83	3-745130-9
15/25/37/50	.430 (10.92)	A32168-ND	1.16	.97	4-745130-1
37/50	.240 (6.10)	A32163-ND	1.23	1.03	2-747580-3

SERIES 90

Fig. 1

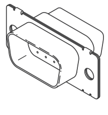

Fig. 2

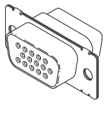

High Density Crimp Type Connectors

Material and Finish:
• Shell: Steel, cadmium plated • Insert: Approved material per MIL-DTL-24308
• Retention Clips: Stainless steel or copper alloy

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
		Plugs				
1	15	A34440-ND	24.24	20.20	16.16	1757823-7
	26	A34442-ND	35.04	29.20	23.36	1757823-8
	44	A34444-ND	46.17	38.48	30.78	1757823-9
	62	A34446-ND	61.17	50.98	40.78	1-1757823-0
	78	A34448-ND	72.30	60.25	48.20	1-1757823-1
	104	A34450-ND	93.45	77.88	62.30	1-1757823-2
		Receptacles				
2	15	A34439-ND	31.44	26.20	20.96	1757824-7
	26	A34441-ND	48.96	40.80	32.64	1757824-8
	44	A34443-ND	53.40	44.50	35.60	1757824-9
	62	A34445-ND	81.21	67.68	54.14	1-1757824-0
	78	A34447-ND	94.56	78.80	63.04	1-1757824-1
	104	A34449-ND	123.48	102.90	82.32	1-1757824-2

Non-Magnetic High Density Crimp Type Connectors

Material and Finish: • Shell: Brass, gold plated • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Copper alloy
Contact Material and Finish: • Copper alloy, .000050-.000100 (0.00127-0.0254) thick gold plate over .000100-.000150 (0.0254-0.00381) thick copper under plate

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
		Plugs				
1	15	A34472-ND	45.99	38.33	30.66	206498-4
	26	A34474-ND	45.39	37.83	30.26	206500-4
	44	A34476-ND	57.36	47.80	38.24	206063-4
	62	A34478-ND	65.04	54.20	43.36	206502-4
	78	A34480-ND	84.06	70.05	56.04	206504-4
	104	A34483-ND	86.31	71.93	57.54	206066-4
		Receptacles				
2	15	A34473-ND	45.99	38.33	30.66	206499-4
	26	A34475-ND	45.39	37.83	30.26	206501-4
	44	A34477-ND	57.36	47.80	38.24	206064-4
	78	A34481-ND	84.06	70.05	56.04	206505-4
	104	A34482-ND	85.92	71.60	57.28	206065-4

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Series 90 - High Density Contacts				
Pin 22-28 AWG, 50µ Gold	A34528-ND	.97	.60	204370-2
Socket 22-28 AWG, 50µ Gold	A34527-ND	1.50	.92	204351-1
Series 90 - Non-Magnetic High Density Contacts				
Pin 22-28 AWG, 50µ Gold	A34484-ND	1.20	.74	204370-8
Pin 26-28 AWG, 50µ Gold	A34485-ND	3.77	2.32	206495-3
Socket 22-28 AWG, 50µ Gold	A34486-ND	2.60	1.60	206071-1
Socket 26-28 AWG, 50µ Gold	A34487-ND	6.76	4.16	206496-1
Series 90 - Tooling				
Insertion/Extraction Tool	A34451-ND	6.14/1		91067-1
Replacement Insertion Tip Use with 91067-1	A34452-ND	2.90/1		126237-1
Replacement Extraction Tip Use with 91067-1	A34453-ND	4.02/1		126195-2
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	450.30/1		601966-1
Socket Positioner Tool Use with 601966-1	A34489-ND	56.97/1		601966-4
Pin Positioner Tool Use with 601966-1	A34490-ND	56.97/1		601966-6

SERIES 109

Fig. 1

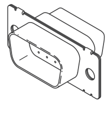

Fig. 2

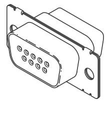

Standard Density Crimp Type Connectors

Material and Finish:
• Shell: Steel, cadmium plated • Insert: Approved material per MIL-DTL-24308
• Retention Clips: Stainless steel

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
		Plugs				
1	9	A34455-ND	13.65	11.38	9.10	1757819-6
	15	A34457-ND	18.87	15.73	12.58	1757819-7
	25	A34459-ND	24.69	20.58	16.46	1757819-8
	37	A34461-ND	34.47	28.73	22.98	1757819-9
	50	A34463-ND	45.06	37.55	30.04	1-1757819-0
		Receptacles				
2	9	A34454-ND	16.80	14.00	11.20	1757820-6
	15	A34456-ND	22.77	18.98	15.18	1757820-7
	25	A34458-ND	31.38	26.15	20.92	1757820-8
	37	A34460-ND	43.95	36.63	29.30	1757820-9
	50	A34462-ND	56.73	47.28	37.82	1-1757820-0

Non-Magnetic Standard Density Crimp Type Connectors

Material and Finish:
• Shell: Brass, gold plated • Insert: Approved material per MIL-DTL-24308
• Retention Clips: Stainless steel or copper alloy
Contact Material and Finish:
• Copper alloy plated gold .000050-.000100 (0.00127-0.00254) thick over .000100-.000150 (0.00254-0.00381) copper under plate

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
		Plugs				
1	9	A34491-ND	31.65	26.38	21.10	207252-2
	15	A34493-ND	37.80	31.50	25.20	206798-2
	37	A34497-ND	51.45	42.88	34.30	206802-2
	50	A34499-ND	64.26	53.55	42.84	206804-2
		Receptacles				
2	15	A34494-ND	37.80	31.50	25.20	206799-2
	25	A34496-ND	42.36	35.30	28.24	206801-2
	37	A34498-ND	51.45	42.88	34.30	206803-2
	50	A34500-ND	64.26	53.55	42.84	206805-2

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Series 109 - Contacts				
Pin 20-24 AWG, 50µ Gold	A2160-ND	1.24	.77	205089-1
Socket 20-24 AWG, 50µ Gold	A2161-ND	1.74	1.07	205090-1
Series 109 - Non-Magnetic Contacts				
Pin 26-28 AWG, 50µ Gold	A34501-ND	2.99	1.84	206794-4
Socket 26-28 AWG, 50µ Gold	A34502-ND	7.06	4.34	206795-3
Series 109 - Tooling				
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.93/1		91067-2
Replacement Insertion Tip Use with 91067-2	A34469-ND	2.90/1		126195-3
Replacement Extraction Tip Use with 91067-2	A34470-ND	2.90/1		126195-4
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	450.30/1		601966-1
Pin Positioner Tool Use with 601966-1	A9797-ND	56.97/1		601966-5

SERIES 109

Fig. 1

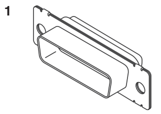

Fig. 2

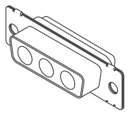

Standard Density Crimp Type, Power/Coax/Signal Combination Connectors

Material and Finish: • Shell: Steel or copper alloy • Plating: Cadmium, tin or gold • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Stainless steel or copper alloy

Contact Arrangements:

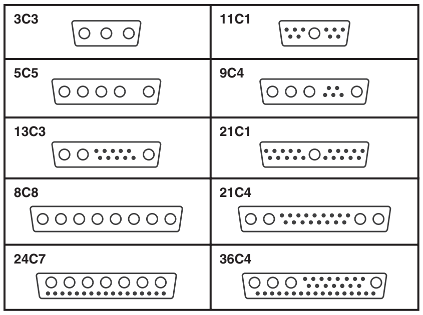

Fig.	Contact Arrangement	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
		Plugs				
1	3C3	A34503-ND	3.87	3.23	2.58	5-448153-4
	3C3	A34505-ND	4.95	4.13	3.30	5-448153-1
	11C1	A34507-ND	11.88	9.90	7.92	5-211111-1
	5C5	A34509-ND	6.78	5.65	4.52	5-212491-1
	5C5	A34511-ND	5.82	4.85	3.88	5-212491-3
	9C4	A34513-ND	16.44	13.70	10.96	5-212498-1
	13C3	A34515-ND	27.09	22.58	18.06	5-208810-1
	21C1	A34517-ND	19.35	16.13	12.90	5-212522-1
	8C8	A34519-ND	7.26	6.05	4.84	5-446405-1
	21C4	A34521-ND	24.48	20.40	16.32	5-212530-1
	24C7	A34523-ND	27.60	23.00	18.40	5-208743-1
	36C4	A34525-ND	34.47	28.73	22.98	5-208744-1
		Receptacles				
2	3C3	A34504-ND	4.56	3.80	3.04	445705-7
	3C3	A34506-ND	5.55	4.63	3.70	5-445705-4
	11C1	A34508-ND	12.36	10.30	8.24	5-211112-1
	5C5	A34510-ND	5.40	4.50	3.60	5-212059-1
	5C5	A34512-ND	4.65	3.88	3.10	212059-9
	9C4	A34514-ND	12.00	10.00	8.00	5-212502-1
	13C3	A34516-ND	27.48	22.90	18.32	5-208811-1
	21C1	A34518-ND	19.17	15.98	12.78	5-212526-1
	8C8	A34520-ND	4.98	4.15	3.32	5-445730-1
	21C4	A34522-ND	19.20	16.00	12.80	5-212534-1
	24C7	A34524-ND	30.93	25.78	20.62	5-208552-1
	36C4	A34526-ND	30.93	25.78	20.62	5-208550-1

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Contacts - Crimp Gold				
Pin, 8 AWG	A34793-ND	9.68	8.39	211159-1
Pin, 10 AWG	A34794-ND	33.23	28.80	211159-2
Pin, 12-14 AWG	A34795-ND	10.43	9.04	212007-1
Pin, 16-18 AWG	A34796-ND	11.48	9.95	212013-1
Socket, 8 AWG	A34797-ND	20.51	17.78	211161-1
Socket, 10 AWG	A34798-ND	38.25	33.15	211161-2
Socket, 12-14 AWG	A34799-ND	17.63	15.28	212008-1
Socket, 16-18 AWG	A34800-ND	17.40	15.08	212014-1
Coaxial Contacts - Size 8				
Pin RG-174/188/316	A34786-ND	26.25	22.75	5-228618-1
Pin RG-179/187	A34787-ND	27.98	24.25	5-228618-2
Pin RG-142/B9246	A34788-ND	110.10	95.42	5-228618-4
Socket, RG-174/188/316	A34789-ND	34.39	29.81	5-228596-1
Socket, RG-179/187	A34790-ND	35.40	30.68	5-228596-2
Socket, RG-142/400/B9246	A34791-ND	37.31	32.34	5-228596-4
Tooling				
Hand Tool Frame w/o Positioner	A34779-ND	555.42/1		608651-1
Positioner 8-14 AWG, Use with 608651-1	A34780-ND	81.58/1		608651-2
Hand Tool Frame w/o Positioner	A34781-ND	514.83/1		608668-1
Positioner 16-18 AWG, Use with 608668-1	A34782-ND	81.58/1		608668-2
Extraction Tool	A34792-ND	149.70/1		318813-1
Tool Die RG-174/316/188/179/187	A34783-ND	1087.07/1		59993-1
Tool Die Assy. RG-142/400/B9246	A34784-ND	1191.63/1		58212-1

AMPLIMITE® Accessories / Hardware

(Sold In Packages of 2 unless otherwise noted)

Fig.	Conn. Used w/ AMP Series	Finish	Thread	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Female Screw Locks - Steel, Zinc Plated								
1	HD Plastic	Yellow Chromate	4-40	.250 (6.35)	A33684-ND	3.75	3.13	5207952-1
2	HDE	Yellow Chromate	4-40	.250 (6.35)	A33685-ND	2.29	1.91	5745563-1
	HDE	Clear Chromate	4-40	.250 (6.35)	A33686-ND	2.32	1.94	5745563-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A33687-ND	2.17	1.81	5205817-1
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A32020-ND	2.06	1.72	5205817-3
	HDP/HDF	Yellow Chromate	4-40, MIL-C24308	.312 (7.92)	A33688-ND	1.60	1.34	5205817-8
	HD/HDF	Yellow Chromate	4-40	.560 (14.22)	A33689-ND	2.10	1.75	5207719-1
	HD/HDF	Clear Chromate	4-40	.560 (14.22)	A32023-ND	2.02	1.69	5207719-3
	HD/HDF	Clear Chromate	2-56 Male (4-40 Female)	.560 (14.22)	A32026-ND	3.27	2.73	5747223-3
Individual Screwlocks - Steel, Zinc Plated (washers and nuts not included)								
1	HD	Clear Chromate	4-40	.250 (6.35)	A33690-ND	3.63	3.03	5207952-3
2	HDP/HDF	Clear Chromate	M2.6 (Metric), Female (4-40 Male)	.312 (7.92)	A33691-ND	1.62	1.35	5749765-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A33692-ND	1.10	.92	5748270-2
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A33693-ND†	2.38	1.99	5748558-4
	HDP/HDF	Clear Chromate	4-40	.257 (6.53)	A35225-NDΔ	3.60	3.00	5748558-3
	HDP/HDF	Clear Chromate	M3 Female (4-40 Male)	.312 (7.92)	A35223-ND	2.64	2.20	5747404-3
	HDP/HDF	Clear Chromate	4-40	.185 (4.70)	A35224-ND	.66	.55	5747877-3
Male Screw Retainers for Plastic Shell Connectors - Steel, Zinc Plated (material)								
3	HDE	Yellow Chromate	4-40	.220 (5.59)	A33694-ND	1.18	1.07	5745647-1
Male Screw Retainers for Metal Shell Connectors - Steel, Zinc Plated (material)								
3	HDE/HDP	Yellow Chromate	4-40	.220 (5.59)	A33695-ND	1.26	1.05	5205980-1
	HDE/HDP	Clear Chromate	4-40	.220 (5.59)	A32021-ND	1.24	1.03	5205980-4
	HDE/HDP	Yellow Chromate	4-40	.200 (5.08)	A33696-ND	1.80	1.50	5745136-1
Male Screw Retainers for Metal and Plastic Shell Connectors - Steel, Zinc Plated (material)								
3	HDF	Clear Chromate	4-40	.300 (7.62)	A35222-ND◊	1.55	1.30	5746881-2
Male Jack Screw - Steel, Zinc Plated								
4	HDE/HDP	Clear Chromate	4-40	—	A23593-ND†	3.00	2.50	747784-3
Locking Post Assembly - Steel, Zinc Plated (2 complete assemblies)								
5	HD/HDE	Yellow Chromate	4-40	.410 (10.41)	A32022-ND	2.70	2.25	5206514-1
	HDF/HDP	Yellow Chromate	4-40	.560 (14.22)	A33697-ND	2.78	2.32	5206514-6

† Bulk packed and with captivated star washer; no additional hardware included ◊ See drawing for dimensions
Δ Parts packaged as a unit kit with captivated star washer; no additional hardware included

Fig.	No. of Positions	Description	Thread	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Latching Blocks - Slot Recess & Thru-Hole - Zinc									
6	9-37	Rear-Panel Latching	—	.160 (4.06)	—	A23453-ND	4.77	3.98	747080-2
	9-37	Rear-Panel Latching	—	.190 (4.83)	—	A23451-ND	1.63	1.36	745245-2
	9-37	Front-Panel Latching	—	.250 (6.35)	—	A23452-ND	2.45	2.04	745286-2
Latching Blocks - Threaded Hole - Zinc									
7	9-37	Rear-Panel Latching	4-40	.190 (4.83)	.400 (10.16)	A23449-ND	3.62	3.02	745403-8
	9-37	Rear-Panel Latching	4-40	.220 (5.59)	.400 (10.16)	A23450-ND	8.40	7.00	747717-2
	9-37	Front-Panel Latching	M3	.250 (6.35)	.400 (10.16)	A23447-ND	1.62	1.35	208101-1
	9-37	Front-Panel Latching	4-40	.250 (6.35)	.400 (10.16)	A23448-ND	1.96	1.63	208101-8
	50	Front-Panel Latching	4-40	.250 (6.35)	.530 (13.46)	A35227-ND	64.02	53.35	1-208101-1

Fig.	No. of Positions	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Spring Latches - Stainless Steel							
8	—	—	With Mounting Ears	A23445-ND	4.92	4.10	745255-2
9	9-37	.540 (13.72)	Spring Latch	A23446-ND	1.99	1.66	745779-2
9	50	.650 (16.51)	Spring Latch	A35226-ND	4.86	4.05	745779-5
Slide Latch Clips - Steel, Zinc Plated (clip stainless steel, screws/washers/nuts - steel, zinc plated)							
10	—	—	Thread 4-40, Screw Length .415 (10.54mm)	A33703-ND	2.37	1.98	5206942-1

Fig.	No. of Positions	Style No.	Thread Size	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Slide Latch Clips - Stainless Steel (screws/washers/nuts - steel, zinc plated)									
11	9	1	4-40	1.397 (35.48)	.490 (12.45)	A33698-ND	3.82	3.18	5745404-1
	15	2	2-56	1.725 (43.82)	.470 (11.94)	A33699-ND	4.80	4.00	5745583-1
	25	2	2-56	2.265 (57.53)	.470 (11.94)	A33700-ND	9.00	7.50	5745584-1
	25	3	4-40	2.265 (57.53)	.470 (11.94)	A33701-ND	3.60	3.00	5745584-3
	37	1	4-40	2.913 (73.99)	.490 (12.45)	A32024-ND	3.99	3.33	5745407-1
	50	3	4-40	2.819 (71.60)	.575 (14.61)	A33702-ND	10.29	8.58	5745578-3

Fig.	No. of Positions	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
EMI/RFI Gaskets - Brass .006” (0.15mm) Thick, Bright Tin Plated							
12	9	.984 (24.99)	1.220 (30.99)	A32025-ND	3.66	3.05	5747024-3
	37	2.500 (63.50)	2.730 (69.34)	A32028-ND	6.63	5.53	745777-4
13	Screwlock Kits for .050 Series, stainless steel			A23468-ND‡	3.33	2.78	749087-2
14	Screwlock Kits for .050 Series, stainless steel, Thread 4-40			A23469-ND	3.39	2.83	750644-1
14	Screwlock Kits for .050 Series, stainless steel, Thread 2-56			A23470-ND	3.28	2.73	786585-2
15	Screwlock Kits for .050 Series, stainless steel			A23675-ND	4.47	3.73	750831-1
—	Grommet Set (4 per set), 9-15 positions			A23668-ND	.96	.80	747746-1
	Grommet Set (4 per set), 25-50 positions			A23669-ND	1.41	1.18	747973-1

‡ Recommended for right-angle board mount connectors

Fig. 1

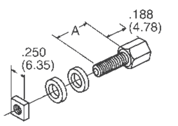

Fig. 2

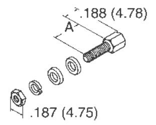

Fig. 3

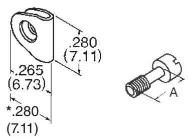

Fig. 4

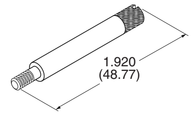

Fig. 5

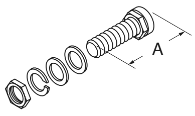

Fig. 6

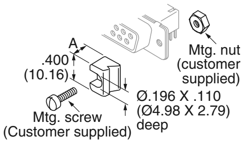

Fig. 7

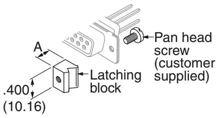

Fig. 8

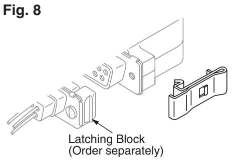

Fig. 9

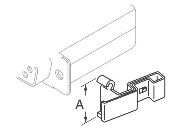

Fig. 10

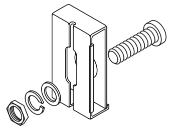

Fig. 11

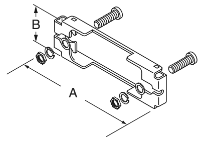

Style 1: Can be used with cable clamps that do not extend beyond the front flange of the connector or on connectors without cable clamps.

Style 2: Can be used with any cable clamp that has the mounting ear configuration.

Style 3: Can be used on connectors without cable clamps or with cable clamps that do not have the mounting ear configuration.

Fig. 12

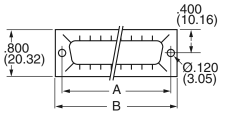

Fig. 13

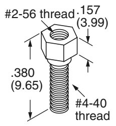

Fig. 14

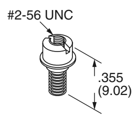

Fig. 15

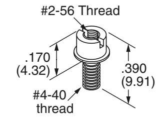

Description	Digi-Key Part No.	Pricing 10	50	AMP Part No.
Flat Washer #4	A35229-ND	.37	1.53	5205820-2
Hex Nut 4-40	A35230-ND	3.29	13.70	5205821-2

D-Sub Connectors

Fig. 1

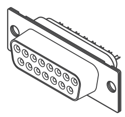

Fig. 2

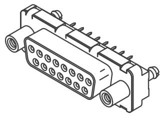

Fig. 3

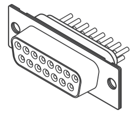

Fig. 4

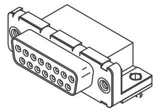

Fig. 5

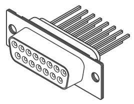

Fig. 6

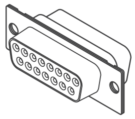

Fig. 7 ***NEW!***

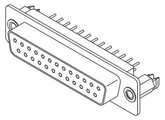

Fig. 8 ***NEW!***

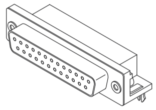

Fig. 9 ***NEW!***

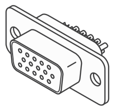

Fig. 10 ***NEW!***

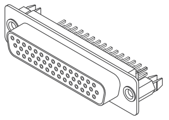

Fig. 11 ***NEW!***

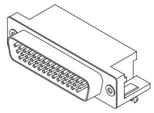

Fig. 12 ***NEW!***

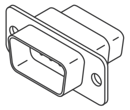

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Solder Cup — Stamped Contacts							
1	9	Male	609-1524-ND	1.43	.80	.68	DE09P064TXLF
	9	Female	609-1525-ND	1.46	.81	.70	DE09S064TLF
	15	Male	609-1512-ND	1.87	1.04	.91	DA15P064TXLF
	15	Female	609-1513-ND	1.87	1.04	.91	DA15S064TLF
	25	Male	609-1518-ND	1.89	1.09	.94	DB25P064TXLF
	25	Female	609-1519-ND	1.89	1.09	.94	DB25S064TLF
Solder Cup — Machined Contacts							
1	9	Male	609-2805-ND	3.73	2.30	2.03	DEP09P065TXLF
	9	Female	609-2806-ND	4.63	2.86	2.52	DEP09S065TLF
	15	Male	609-2810-ND	5.48	3.40	3.08	DAP15P065TXLF
	15	Female	609-2811-ND	7.20	4.48	4.05	DAP15S065TLF
	25	Male	609-2814-ND	8.05	5.22	4.77	DBP25P065TXLF
	25	Female	609-2815-ND	11.64	7.55	6.91	DBP25S065TLF
Vertical PCB — Stamped Contacts (with harpoon, and 4-40 screwlock)							
2	9	Male	609-1479-ND◊	3.41	2.10	1.86	D09P24A4GV00LF
	9	Female	609-1485-ND◊	3.41	2.10	1.86	D09S24A4GV00LF
	15	Male	609-1491-ND◊	3.26	2.00	1.74	D15P24A4GV00LF
	15	Female	609-1497-ND◊	3.10	1.90	1.65	D15S24A4GV00LF
	25	Male	609-1503-ND◊	3.86	2.38	2.10	D25P24A4GV00LF
	25	Female	609-1509-ND◊	3.39	2.10	1.85	D25S24A4GV00LF
Vertical PCB — Machined Contacts							
3	9	Male	609-2807-ND	3.24	1.99	1.73	DEP09P365TXLF
	9	Female	609-2808-ND	5.44	3.38	3.06	DEP09S365TLF
	15	Male	609-2812-ND	5.35	3.41	3.12	DAP15P365TXLF
	25	Male	609-2822-ND	7.62	5.18	4.58	DBP25P365TXLF
Right Angle PCB (with insert, harpoon, and metal plate)							
4	9	Male	609-1481-ND§†	3.23	1.99	1.78	D09P33E4GX00LF
	9	Female	609-1487-ND§†	3.23	1.99	1.78	D09S33E4GX00LF
	15	Male	609-1493-ND§†	3.62	2.15	1.87	D15P33E4GX00LF
	15	Female	609-1499-ND§†	3.56	2.12	1.84	D15S33E4GX00LF
	25	Male	609-1505-ND§†	3.81	2.35	2.07	D25P33E4GX00LF
	25	Female	609-1511-ND§†	3.57	2.21	1.95	D25S33E4GX00LF
	9	Male	609-1478-ND‡†	2.90	1.78	1.60	D09P13A4GX00LF
	9	Female	609-1484-ND‡†	2.53	1.52	1.33	D09S13A4GX00LF
	15	Male	609-1490-ND‡†	3.47	2.13	1.85	D15P13A4GX00LF
	15	Female	609-1496-ND‡†	3.88	2.40	2.11	D15S13A4GX00LF
	25	Male	609-1502-ND‡†	3.92	2.42	2.14	D25P13A4GX00LF
	25	Female	609-1508-ND‡†	3.37	2.08	1.84	D25S13A4GX00LF
	9	Male	609-1476-ND‡Δ	2.95	1.76	1.57	D09P13A4GL00LF
	9	Female	609-1482-ND‡Δ	2.90	1.73	1.55	D09S13A4GL00LF
	15	Male	609-1488-ND‡Δ	3.30	2.03	1.76	D15P13A4GL00LF
	15	Female	609-1494-ND‡Δ	3.15	1.94	1.68	D15S13A4GL00LF
	25	Male	609-1500-ND‡Δ	3.83	2.37	2.09	D25P13A4GL00LF
	25	Female	609-1506-ND‡Δ	3.52	2.18	1.92	D25S13A4GL00LF
Right Angle PCB (with screwlock, harpoon, and metal plate)							
4	9	Male	609-1480-ND§◊	3.23	1.99	1.78	D09P33E4GV00LF
	9	Female	609-1486-ND§◊	3.39	2.04	1.78	D09S33E4GV00LF
	15	Male	609-1492-ND§◊	3.30	2.03	1.76	D15P33E4GV00LF
	15	Female	609-1498-ND§◊	3.25	2.00	1.74	D15S33E4GV00LF
	25	Male	609-1504-ND§◊	3.71	2.30	2.02	D25P33E4GV00LF
	25	Female	609-1510-ND§◊	3.89	2.32	2.05	D25S33E4GV00LF
	9	Male	609-1477-ND‡◊	3.05	1.87	1.68	D09P13A4GV00LF
	9	Female	609-1483-ND‡◊	2.91	1.79	1.60	D09S13A4GV00LF
	15	Male	609-1489-ND‡◊	3.37	2.09	1.84	D15P13A4GV00LF
4	15	Female	609-1495-ND‡◊	3.34	2.07	1.82	D15S13A4GV00LF
	25	Male	609-1501-ND‡◊	4.06	2.52	2.28	D25P13A4GV00LF
	25	Female	609-1507-ND‡◊	3.68	2.28	2.01	D25S13A4GV00LF
Right Angle PCB (with screwlock, harpoon, and metal plate) — Machined Contacts							
4	9	Male	609-2827-ND	8.85	6.02	5.31	DEPV09P565GTXLF
	25	Male	609-2833-ND	14.30	10.14	9.33	DBPV25P565GTXLF
	25	Female	609-2832-ND	16.15	11.45	10.54	DBPV25S565GTLF
Wire Wrap — Machined Contacts							
5	9	Male	609-2818-ND	5.92	3.95	3.54	DEP09P465TXLF
	9	Female	609-2809-ND	7.20	4.48	4.05	DEP09S465TLF
	15	Male	609-2817-ND	6.87	4.58	4.10	DAP15P465TXLF
	15	Female	609-2816-ND	11.16	7.43	6.66	DAP15S465TLF
	25	Male	609-2821-ND	10.53	7.17	6.45	DBP25P465TXLF
	25	Female	609-2820-ND	16.75	11.39	10.25	DBP25S465TLF
Crimp Shell							
6	9	Male	609-1466-ND	1.24	.68	.58	865609PLTXLF
	9	Female	609-1467-ND	1.27	.71	.59	865609SLTLF
	15	Male	609-1468-ND	1.18	.65	.55	865615PLTXLF
	15	Female	609-1469-ND	1.35	.73	.63	865615SLTLF
	25	Male	609-1470-ND	1.43	.79	.68	865625PLTXLF
	25	Female	609-1471-ND	1.50	.84	.72	865625SLTLF
Crimp Contacts (bulk)							
24-28AWG Gold		Male	609-1472-ND	.20	.10	.07	8656350064LF
24-28AWG Gold		Female	609-1473-ND	.18	.09	.07	8656351064LF
20-24AWG Gold		Male	609-1474-ND	.25	.11	.09	8656352064LF
20-24AWG Gold		Female	609-1475-ND	.18	.09	.07	8656353064LF
NEW! Economy D-Subs NEW!							
Vertical PCB							
7	9	Male	609-3989-NDΔ	1.53	.86	.74	10090096-P094LLF
	9	Male	609-3990-ND◊	1.53	.86	.74	10090096-P094VLF
	9	Male	609-3991-ND†	1.53	.86	.74	10090096-P094XLF
	9	Female	609-3995-ND†Δ	1.53	.86	.74	10090098-S094LLF
	9	Female	609-3996-ND◊	1.53	.86	.74	10090098-S094VLF
	9	Female	609-3997-ND†	1.53	.86	.74	10090098-S094XLF
	15	Male	609-3992-ND◊	1.68	.91	.80	10090096-P154VLF
	15	Female	609-3998-ND◊	1.68	.91	.80	10090098-S154VLF
	15	Female	609-3999-NDΔ	1.68	.91	.80	10090098-S154XLF
	25	Male	609-3993-ND◊	1.79	1.00	.88	10090096-P254VLF
	25	Female	609-4000-ND◊	1.79	1.00	.88	10090098-S254VLF
	37	Male	609-3994-ND◊	2.43	1.44	1.28	10090096-P374VLF
	37	Female	609-4001-ND◊	2.43	1.44	1.28	10090098-S374VLF
Right Angle PCB							
8	9	Male	609-4002-NDΔ	1.18	.65	.55	10090097-P094LLF
	9	Male	609-4003-ND◊	1.18	.65	.55	10090097-P094VLF
	9	Male	609-4004-ND†	1.18	.65	.55	10090097-P094XLF
	9	Female	609-4008-NDΔ	1.18	.65	.55	10090099-S094LLF
	9	Female	609-4009-ND◊	1.18	.65	.55	10090099-S094VLF
	9	Female	609-4010-ND†	1.18	.65	.55	10090099-S094XLF
	15	Male	609-4005-ND◊	1.37	.74	.64	10090097-P154VLF
	15	Female	609-4011-ND◊	1.37	.74	.64	10090099-S154VLF
	25	Male	609-4006-ND◊	1.57	.89	.76	10090097-P254VLF
	25	Female	609-4012-ND◊	1.57	.89	.76	10090099-S254VLF
	37	Male	609-4007-ND◊	2.13	1.26	1.09	10090097-P374VLF
	37	Female	609-4013-ND◊	2.13	1.26	1.09	10090099-S374VLF

§ US Standard Footprint ‡ Europe Standard Footprint † 4-40 Insert
Δ M3 Insert ◊ 4-40 Female Screwlock

(Continued)

FCI D-Sub Connectors *(Cont.)*

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
High Density D-Subs							
NEW! Solder Cup NEW!							
9	15	Male	609-4042-ND	1.19	.66	.55	10090769-P154ALF
	15	Female	609-4045-ND	1.19	.66	.55	10090770-S154ALF
	26	Male	609-4043-ND	1.82	1.04	.90	10090769-P264ALF
	26	Female	609-4046-ND	1.82	1.04	.90	10090770-S264ALF
	44	Male	609-4044-ND	2.46	1.48	1.29	10090769-P444ALF
	44	Female	609-4047-ND	2.46	1.48	1.29	10090770-S444ALF
NEW! Vertical PCB NEW!							
10	15	Male	609-4026-ND◊	2.37	1.42	1.24	10090928-P154VLF
	15	Male	609-4027-ND†	2.37	1.42	1.24	10090928-P154XLF
	15	Female	609-4031-ND◊	2.37	1.42	1.24	10090929-S154VLF
	15	Female	609-4032-ND†	2.37	1.42	1.24	10090929-S154XLF
	26	Male	609-4028-ND◊	2.81	1.73	1.50	10090928-P264VLF
	26	Male	609-4029-ND†	2.81	1.73	1.50	10090928-P264XLF
	26	Female	609-4033-ND◊	2.81	1.73	1.50	10090929-S264VLF
	26	Female	609-4034-ND†	2.81	1.73	1.50	10090929-S264XLF
	44	Male	609-4030-ND†	3.43	2.12	1.87	10090928-P444XLF
	44	Female	609-4035-ND†	3.43	2.12	1.87	10090929-S444XLF
Right Angle PCB							
11	15	Male	609-4021-ND◊ ***NEW!***	1.54	.84	.73	10090926-P154VLF
	15	Male	609-4022-ND† ***NEW!***	1.54	.84	.73	10090926-P154XLF
	15	Female	609-2801-ND†	3.13	1.92	1.67	ICD15S13E6GX00LF
	15	Female	609-2802-ND◊	2.43	1.40	1.21	ICD15S13E6GV00LF
	26	Male	609-4023-ND◊ ***NEW!***	2.81	1.73	1.50	10090926-P264VLF
	26	Male	609-4024-ND† ***NEW!***	2.81	1.73	1.50	10090926-P264XLF
	26	Female	609-2803-ND◊	2.88	1.77	1.59	ICD26S13E4GV00LF
	26	Female	609-2804-ND†	2.64	1.59	1.39	ICD26S13E4GX00LF
	44	Male	609-4025-ND† ***NEW!***	3.30	2.04	1.80	10090926-P444XLF
NEW! Crimp Shell NEW!							
12	15	Male	609-4036-ND	1.43	.79	.68	10090930-P150ALF
	15	Female	609-4038-ND	1.43	.79	.68	10090931-S150ALF
	26	Male	609-4037-ND	2.02	1.19	1.03	10090930-P260ALF
	26	Female	609-4039-ND	2.02	1.19	1.03	10090931-S260ALF
NEW! Crimp Contacts NEW!							
24-28AWG Gold		Male	609-4040-ND	.22	.10	.08	10090932-P2448LF
24-28AWG Gold		Female	609-4041-ND	.22	.10	.08	10090933-S2448LF

§ US Standard Footprint ‡ Europe Standard Footprint † 4-40 Insert Δ M3 Insert ◊ 4-40 Female Screwlock

D-Sub Hardware

Fig. 1 – Screw Lock

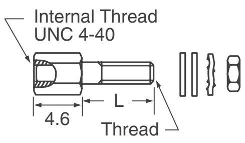

Fig. 2 – Screw Lock Delta D Series

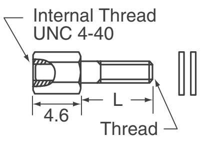

Fig. 3 – Screw Lock

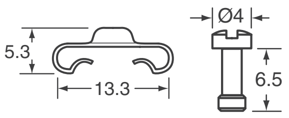

Fig. 4 – Metal Cap or D-Sub Cover

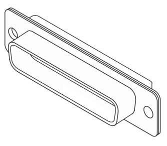

Fig.	Type	No. of Contacts	Dim. L (mm)	Thread	Digi-Key Part No.	Price Each			FCI Part No.
						1	25	100	
1	Female	—	8.30	M3	609-1422-ND	.68	.34	.27	863001TLF
	Female	—	8.30	M3	609-1446-ND	.95	.49	.42	86552153TLF
	Female	—	6.30	M3	609-1417-ND	.74	.37	.31	863001017TLF
	Female	—	13.0	M3	609-1421-ND	.66	.34	.27	863001061TLF
	Female	—	8.30	UNC 4.40	609-1420-ND	.85	.43	.35	863001060TLF
	Female	—	8.30	M3	609-1443-NDΔ	.57	.28	.23	86551007TLF
	Female	—	8.30	UNC 4.40	609-1444-NDΔ	.52	.25	.20	86551009TLF
	Female	—	4.50	M3	609-1445-NDΔ	.61	.30	.24	86551167TLF
2	Female	—	4.50	M3	609-1418-ND	.52	.26	.21	863001018TLF
	Female	—	4.50	UNC 4.40	609-1419-ND	.56	.28	.23	863001019TLF
3	Male	—	—	UNC 4.40	609-1423-ND	1.84	1.02	.86	863005ATLF
4	Male	9	—	—	609-1447-ND	2.12	1.15	1.01	86553113TLF
	Female	9	—	—	609-1450-ND	2.52	1.36	1.19	86553148TLF
	Male	15	—	—	609-1448-ND	2.19	1.22	1.07	86553114TLF
	Female	15	—	—	609-1451-ND	2.72	1.37	1.15	86553149TLF
	Female	25	—	—	609-1452-ND	2.10	1.24	1.07	86553150TLF

Δ Hardware not included

D-Sub Backshells

Fig. 1

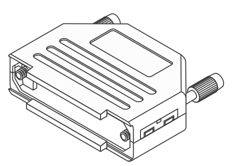

Fig. 2

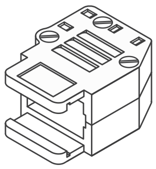

Fig. 3

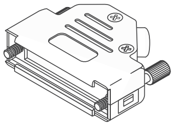

Fig. 4

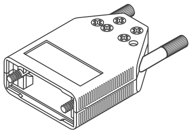

Fig. 5

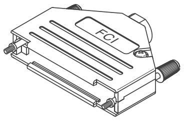

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
1	9	Black Plastic Hood	609-1424-ND	2.03	1.20	1.04	86303637BLF
	15	Black Plastic Hood	609-1425-ND	2.12	1.25	1.08	86303638BLF
	25	Black Plastic Hood	609-1426-ND	2.21	1.27	1.13	86303639BLF
	37	Black Plastic Hood	609-1427-ND	2.55	1.54	1.34	86303640BLF
	50	Black Plastic Hood	609-1428-ND	4.58	2.85	2.58	86303641BLF
2	9	Black Plastic Hood	609-1429-ND†	2.78	1.65	1.48	863093C09ALF
	15	Black Plastic Hood	609-1431-ND†	2.62	1.58	1.38	863093C15ALF
	25	Black Plastic Hood	609-1433-ND†	2.36	1.40	1.24	863093C25ALF
	37	Black Plastic Hood	609-1435-ND†	3.17	1.95	1.69	863093C37ALF
	50	Black Plastic Hood	609-1436-ND†	3.87	2.32	2.11	863093C50ALF
	9	Plastic Metalized Hood	609-1430-ND†	5.20	3.23	2.93	863093C09MLF
	15	Plastic Metalized Hood	609-1432-ND†	5.70	3.67	3.26	863093C15MLF
	25	Plastic Metalized Hood	609-1434-ND†	8.56	5.28	4.65	863093C25MLF
3	9	Black Plastic Hood	609-1462-ND†	3.11	1.91	1.71	8655PHRA0901LF
	15	Black Plastic Hood	609-1463-ND†	5.57	3.44	3.03	8655PHRA1501LF
	25	Black Plastic Hood	609-1464-ND†	3.66	2.26	1.99	8655PHRA2501LF
	9	Shielded Metal Hood	609-1458-ND†	5.25	3.29	3.01	8655MHRA0901LF
	15	Shielded Metal Hood	609-1459-ND†	5.59	3.72	3.34	8655MHRA1501LF
	25	Shielded Metal Hood	609-1460-ND†	5.81	3.87	3.47	8655MHRA2501LF
	37	Shielded Metal Hood	609-1461-ND†	6.87	4.57	4.10	8655MHRA3701LF
4	9	Shielded Metal Hood	609-1453-ND†	6.96	4.82	4.26	8655MH0911LF
	15	Shielded Metal Hood	609-1454-ND†	7.68	5.23	4.70	8655MH1511LF
	25	Shielded Metal Hood	609-1455-ND†	8.49	5.77	5.10	8655MH2511LF
	37	Shielded Metal Hood	609-1456-ND†	8.95	6.34	5.60	8655MH3711LF
	50	Shielded Metal Hood	609-1457-ND†	14.71	10.71	9.70	8655MH5011LF
5	9	Shielded Metal Hood	609-3129-ND†	3.69	2.28	2.01	8655MH0901BLF
	15	Shielded Metal Hood	609-3130-ND†	3.80	2.36	2.14	8655MH1501BLF
	25	Shielded Metal Hood	609-3131-ND†	4.58	2.85	2.58	8655MH2501BLF
	37	Shielded Metal Hood	609-3132-ND†	4.94	3.09	2.83	8655MH3701BLF

† Two Part Hoods

Combo D-Sub Connectors

Power contacts sold separately.

Contact Arrangement

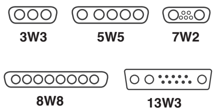

Fig. 1 – Solder Cup

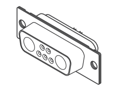

Fig. 2 – Crimp Shell

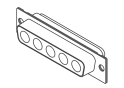

5W5 shown

Fig. 3 – Right Angle PCB

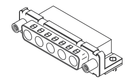

5W5 shown

Fig.	Contact Arrangement	Type	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
			Solder Cup				
1	7W2	Male	609-1516-ND	5.02	3.14	2.87	DA7W2PA00LF
	7W2	Female	609-1517-ND	5.61	3.58	3.27	DA7W2SA00LF
			Crimp Shell				
2	3W3	Male	609-1514-ND	2.03	1.16	1.01	DA3W3PA00LF
	3W3	Female	609-1515-ND	1.93	1.07	.94	DA3W3SA00LF
	5W5	Male	609-1520-ND	2.51	1.51	1.32	DB5W5PA00LF
	5W5	Female	609-1521-ND	2.51	1.51	1.32	DB5W5SA00LF
	8W8	Male	609-1522-ND	2.77	1.66	1.45	DC8W8PA00LF
	8W8	Female	609-1523-ND	2.77	1.66	1.45	DC8W8SA00LF
			Right Angle PCB				
3	3W3	Male	609-2824-NDΔ	3.87	2.64	2.33	D3W3P36A6GL08LF
	3W3	Male	609-2825-ND◊	6.01	4.00	3.59	D3W3P36A6GV08LF
	3W3	Male	609-2826-ND†	6.73	4.66	4.12	D3W3P36A6GX08LF
	5W5	Male	609-2829-ND†	7.34	5.09	4.50	D5W5P36A6GX08LF
	5W5	Male	609-2834-ND	10.47	7.11	6.55	D5W5P36A6GV08LF
	13W3	Female	609-2819-ND†	6.57	4.55	4.03	D13W3S17B5GX3CLF

Δ M3 Insert † 4-40 Insert ◊ 4-40 Female Screwlock

Power Contacts – Solder Bucket

Wire Size	Type	Amps	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
8	Male	40	609-1439-ND	3.37	2.08	1.84	8638PPS4005LF
	Female	40	609-1442-ND	3.95	2.46	2.23	8638PSS4005LF
12	Male	20	609-1438-ND	2.58	1.55	1.36	8638PPS2005LF
	Female	20	609-1441-ND	4.02	2.50	2.26	8638PSS2005LF
12-14	Female	20	609-3572-ND‡	3.04	1.87	1.62	8638PSC2005LF
16	Male	10	609-1437-ND	3.92	2.42	2.13	8638PPS1005LF
	Female	10	609-1440-ND	4.61	2.87	2.60	8638PSS1005LF

‡ Crimp Connection

D-Sub MicroTCA™ High Power IO

The D-subminiature connector options enable 48V/24A DC input connections to power modules used in MicroTCA shelves. The shielded connectors are designed to fit the power module faceplate on the front side of a power module made in accordance with the MicroTCA specification.

Fig. 1 – Single PCB

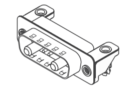

Fig. 2 – Dual PCB

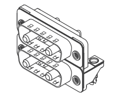

Fig. 3 – Female Cable

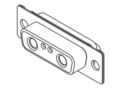

Fig. 4 – Plastic Hood

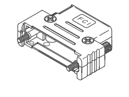

Fig.	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	609-3152-ND	16.50	12.19	11.20	10070158-00419XLF
2	609-3154-ND	28.77	21.59	20.15	10070158-00219XLF
3	609-3155-ND	3.63	2.47	2.27	10070165-00119ALF
4	609-3156-ND	2.55	1.54	1.34	10070163-01LF

MicroTCA Connectors

Specifications: • **Insulator Material:** PBT (UL 94-VO) • **Power contacts:** Material: Copper alloy, screw machined contacts; Finish: Mating area Gold over Nickel, Termination area Tin over Nickel • **Signal contacts:** Material: Copper alloy, screw machined contacts; Finish: Mating area and Termination area both Gold over Nickel • **Shell:** Material: Steel; Finish: Tin Plated **Electrical Characteristics:** • **Current rating:** Power contacts: 24A at maximum 30°C temperature rise; Signal contacts: 7.5A maximum • **Voltage Proof:** 1,000Vrms • **Mechanical operations:** 250 cycles

Fig. 1

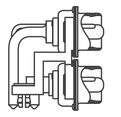

Fig. 2

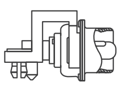

Fig. 3

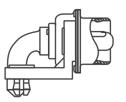

Fig. 4

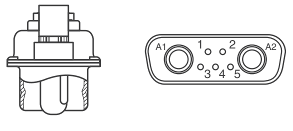

Fig. 5 ***NEW!***

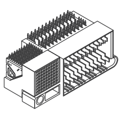

Fig. 6 ***NEW!***

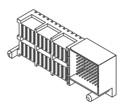

Fig. 7 ***NEW!***

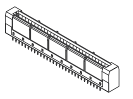

Power Module Input Connectors

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
	Right Angle PCB Connectors					
1	Male, thru-hole, Dual Port with 4-40 hex bolts	626-1298-ND	20.36	16.29	14.26	13-000011
	Male, thru-hole, Dual Port without hex bolts	626-1299-ND	21.17	16.47	13.65	13-000021
	Male, SMT, Dual Port with 4-40 hex bolts	626-1300-ND	21.28	17.03	14.90	13-000031
2	Male, thru-hole, Single Port with 4-40 hex bolts, 24A	626-1301-ND	13.75	10.70	8.86	13-000051
	Male, thru-hole, Single Port without hex bolts, 24A	626-1302-ND	12.89	10.03	8.31	13-000061
	Male, SMT, Single Port with 4-40 hex bolts, 35A	626-1303-ND	14.24	11.08	9.18	13-000071
3	Male, thru-hole, Single Port with 4-40 hex bolts, 40A	626-1304-ND	11.83	8.76	7.10	13-000091
	Male, thru-hole, Single Port without hex bolts, 40A	626-1305-ND	10.95	8.11	6.57	13-000101
	Vertical PCB Connectors					
4	Male, thru-hole, Single Port with 4-40 hex bolts, 40A	626-1306-ND	10.98	8.13	6.59	13-000111
	Male, thru-hole, Single Port without hex bolts, 40A	626-1307-ND	9.75	7.22	5.85	13-000121
	Cable Mount Connectors					
4	Female Solder 12 ~ 10AWG, 30A	626-1308-ND	8.93	6.61	5.36	13-000131
	Female Solder 14 ~ 12AWG, 20A	626-1309-ND	9.00	6.66	5.40	13-000141
	Female Solder 12 ~ 10AWG Bridged Signal, 30A	626-1310-ND	10.53	7.79	6.32	13-000161
	Female Solder 14 ~ 12AWG Bridged Signal, 20A	626-1311-ND	11.05	8.18	6.63	13-000171
	Female Crimp	626-1312-ND†	2.49	1.60	1.25	13-000190
	Female Crimp Bridged Signal	626-1313-ND†	4.89	3.26	2.61	13-000201

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
	Backshells					
	Plastic 180° Short 4-40 Jack Screws with connector	626-1314-ND†	9.15	6.78	5.49	13-000210
	Plastic 180° Long 4-40 Jack Screws with connector	626-1319-ND†	11.65	8.63	6.99	13-000370
	Die Cast 90° 4-40 Jack Screws	626-1320-ND	13.16	10.24	8.49	16-000010
	Contacts					
	Female power crimp type short version, 10A, 16 ~ 20AWG	626-1315-ND	3.33	2.22	1.78	13-000291
	Female power crimp type short version, 20A, 12 ~ 14AWG	626-1316-ND	3.33	2.22	1.78	13-000301
	Female power crimp type short version, 30A, 10 ~ 12AWG	626-1317-ND	3.33	2.22	1.78	13-000311
	Signal crimp type socket contacts 20 ~ 24AWG	626-1361-ND✔	1.52	.95	.71	132C15019X
	Crimp tool for Micro TCA contacts	626-1287-ND	597.53	—	—	360X10409X

✔ ***NEW!*** † Contacts sold separately

NEW! Power Module Output Connectors

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
5	Power Module version Pressfit 24 power and 72 signal contacts	626-1362-ND	17.19	13.37	11.08	47-100011
6	Backplane version Pressfit 24 power and 72 signal contacts	626-1363-ND	22.03	17.14	14.20	47-100001
7	Advanced Mezzazine Card Connector 170 pole	626-1364-ND	18.54	14.42	11.95	47-000001

NEW! Right Angle Ultra Slim with Triple-Beam Boardlock

Materials and Finish:

• Steel, Nickel plated • Insulator, Nylon 6T, Color Pantone Blue #2935U • Contacts: Phosphor Bronze, Gold plated on contact area Tin on tails over Nickel • Board locks, Brass Tin plated • Rivets, Brass Nickel plated

Specifications:

• Current Rating: 1A maximum • Insulation Resistance: 1,000MΩ minimum 500VDC • DWD: 500VAC RMS for 1 minute • Contact Resistance: 30mΩ maximum • Temperature Rating: -40°C ~ 230°C

Contacts	Type	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
15	Female	151-1125-ND	2.11	1.87	1.50	634-015-274-992

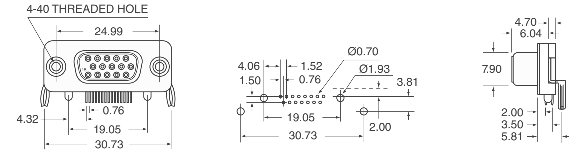

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

High Density D-Sub Connectors 180 Series

• Compatible with new generation systems from several computer manufacturers • Shells have bright tin finish for EMI/RFI shielding • Male connector shells have grounding indents • Reliable crimp snap-in contacts feature insulation grip for increased holding power • Contacts compatible with industry standard crimp tools. **Materials:** • **Shell:** Steel, with bright tin over nickel • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Male Pin:** Brass • **Female Contact:** Phosphor bronze • **Contact Plating:** Gold over nickel (gold flash on entire contact for solder cup and dip solder)

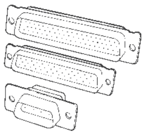

Stamped Contacts For High Density D-Sub Connectors

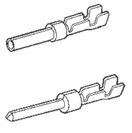

Wire Size: 22-26 AWG
Pin Dia.: .030" (.76mm)

No. of Pins	Shell Size	Dimensions – Inch			
		A	B	C	D
15	DB-9	1.213	0.984	0.496	0.422
26	DB-15	1.543	1.312	0.496	0.422
44	DB-25	2.087	1.852	0.496	0.422
62	DB-37	2.732	2.500	0.496	0.422
78	DB-50	2.638	2.406	0.606	0.550

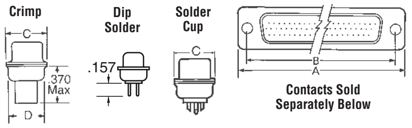

Contacts Sold Separately Below

Note: Contacts sold separately (below) for Crimp Type.

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Crimp - Nickel — RoHS Compliant						
15	Male	815ME-ND	2.61	1.70	1.30	180-015-173L000
	Female	815FE-ND	2.61	1.70	1.30	180-015-273L000
26	Male	826ME-ND	6.63	4.54	3.61	180-026-173L000
	Female	826FE-ND	7.17	4.91	3.91	180-026-273L000
44	Male	844ME-ND	6.77	4.95	4.11	180-044-173L000
	Female	844FE-ND	6.89	5.05	4.18	180-044-273L000
62	Male	862ME-ND	8.64	6.32	5.24	180-062-173L000
	Female	862FE-ND	7.88	5.77	4.78	180-062-273L000
78	Male	878ME-ND	13.22	10.12	8.57	180-078-173L000
	Female	878FE-ND	10.13	7.41	6.14	180-078-273L000
Crimp - with .065" Clinch Nuts, Board Side						
Tin						
26	Male	1826M-ND	4.52	3.47	3.32	180-026-172-010
	Female	1826F-ND	4.85	3.72	3.56	180-026-272-010
44	Male	1844M-ND	4.51	4.06	3.88	180-044-172-010
62	Male	1862M-ND	5.62	5.05	4.83	180-062-172-010
	Female	1862F-ND	5.17	4.65	4.45	180-062-272-010
78	Male	1878M-ND	8.56	8.20	7.83	180-078-172-010
Nickel – .098" — RoHS Compliant						
15	Male	1815ME-ND	3.21	2.20	1.75	180-015-173L010
	Female	1815FE-ND	3.21	2.20	1.75	180-015-273L010
26	Male	1826ME-ND	6.36	4.66	3.86	180-026-173L010
	Female	1826FE-ND	6.84	5.01	4.15	180-026-273L010
44	Male	1844ME-ND	7.58	5.55	4.59	180-044-173L010
	Female	1844FE-ND	7.70	5.64	4.67	180-044-273L010
62	Male	1862ME-ND	9.44	6.91	5.73	180-062-173L010
	Female	1862FE-ND	8.69	6.36	5.27	180-062-273L010
78	Male	1878ME-ND	13.94	10.67	9.04	180-078-173L010
	Female	1878FE-ND	10.93	8.00	6.63	180-078-273L010
Crimp - with .250" Clinch Nuts, Board Side						
Tin						
26	Male	2826M-ND	4.52	3.47	3.32	180-026-172-020
	Female	2826F-ND	4.85	3.72	3.56	180-026-272-020
44	Male	2844M-ND	4.51	4.06	3.88	180-044-172-020
62	Male	2862M-ND	5.62	5.05	4.83	180-062-172-020
	Female	2862F-ND	5.17	4.65	4.45	180-062-272-020
78	Male	2878M-ND	8.56	8.20	7.83	180-078-172-020
Nickel — RoHS Compliant						
15	Male	2815ME-ND	2.12	1.63	1.56	180-015-173L020
	Female	2815FE-ND	3.21	2.20	1.75	180-015-273L020
26	Male	2826ME-ND	4.20	3.77	3.61	180-026-173L020
	Female	2826FE-ND	6.84	5.01	4.15	180-026-273L020
62	Male	2862ME-ND	6.23	5.60	5.35	180-062-173L020
78	Male	2878ME-ND	13.94	10.67	9.04	180-078-173L020
	Female	2878FE-ND	7.22	6.48	6.20	180-078-273L020
Crimp - with .250" Clinch Nuts, Mating Side						
Tin						
15	Male	3815M-ND	2.24	1.50	1.44	180-015-172-030
	Female	3815F-ND	2.24	1.50	1.44	180-015-272-030
26	Male	3826M-ND	4.52	3.47	3.32	180-026-172-030
	Female	3826F-ND	4.85	3.72	3.56	180-026-272-030
44	Male	3844M-ND	4.51	4.06	3.88	180-044-172-030
62	Male	3862M-ND	5.62	5.05	4.83	180-062-172-030
	Female	3862F-ND	5.17	4.65	4.45	180-062-272-030
78	Male	3878M-ND	8.56	8.20	7.83	180-078-172-030
Nickel — RoHS Compliant						
15	Male	3815ME-ND	2.12	1.63	1.56	180-015-173L030
	Female	3815FE-ND	3.21	2.20	1.75	180-015-273L030
26	Male	3826ME-ND	4.20	3.77	3.61	180-026-173L030
	Female	3826FE-ND	4.52	4.06	3.88	180-026-273L030
44	Male	3844ME-ND	5.00	4.49	4.29	180-044-173L030
	Female	3844FE-ND	5.08	4.57	4.37	180-044-273L030
62	Male	3862ME-ND	6.23	5.60	5.35	180-062-173L030
	Female	3862FE-ND	8.69	6.36	5.27	180-062-273L030
78	Male	3878ME-ND	13.94	10.67	9.04	180-078-173L030
	Female	3878FE-ND	10.93	8.00	6.63	180-078-273L030
Contacts — RoHS Compliant						
—	Pin	85PECT-ND	—	.18	.12	180-001-170L001
	Pin	85PETR-ND	610.00/10,000			180-001-170L001
—	Socket	85SECT-ND	—	.18	.12	180-002-170L001
	Socket	85SETR-ND	610.00/10,000			180-002-170L001
Tools						
Insertion/ Removal Tool		T2020-ND	8.36	6.12	5.07	180-901-170-000
High Density Crimp Tool		T3030-ND	324.97	—	—	180-701-170-000
Solder Cup - Nickel — RoHS Compliant						
15	Male	T815ME-ND	2.92	1.90	1.46	180-015-103L001
	Female	T815FE-ND	3.34	2.17	1.66	180-015-203L001
26	Male	T826ME-ND	6.87	5.03	4.17	180-026-103L001
	Female	T826FE-ND	7.17	4.91	3.91	180-026-203L001
44	Male	T844ME-ND	8.28	6.06	5.02	180-044-103L001
	Female	T844FE-ND	9.60	7.02	5.82	180-044-203L001
62	Male	T862ME-ND	10.30	7.54	6.25	180-062-103L001
	Female	T862FE-ND	11.64	8.52	7.06	180-062-203L001
78	Male	T878ME-ND	9.62	7.04	5.83	180-078-103L001
	Female	T878FE-ND	8.05	5.90	4.89	180-078-203L001
Solder Cup - with .065" Clinch Nuts, Board Side						
Nickel – .098" — RoHS Compliant						
15	Male	4815ME-ND	3.45	2.37	1.88	180-015-103L011
	Female	4815FE-ND	3.84	2.63	2.10	180-015-203L011
26	Male	4826ME-ND	7.68	5.62	4.66	180-026-103L011
	Female	4826FE-ND	6.84	5.01	4.15	180-026-203L011
44	Male	4844ME-ND	9.09	6.65	5.51	180-044-103L011
	Female	4844FE-ND	10.40	7.61	6.31	180-044-203L011
62	Male	4862ME-ND	11.11	8.13	6.74	180-062-103L011
	Female	4862FE-ND	12.45	9.11	7.55	180-062-203L011
78	Male	4878ME-ND	10.38	7.60	6.29	180-078-103L011
	Female	4878FE-ND	10.93	8.00	6.63	180-078-203L011
Solder Cup - with .250" Clinch Nuts, Board Side						
Tin						
26	Male	5826M-ND	4.57	4.11	3.93	180-026-102-021
62	Male	5862M-ND	6.61	5.93	5.67	180-062-102-021
	Female	5862F-ND	7.41	6.65	6.36	180-062-202-021
Nickel — RoHS Compliant						
15	Male	5815ME-ND	3.45	2.37	1.88	180-015-103L021
	Female	5815FE-ND	3.84	2.63	2.10	180-015-203L021
26	Male	5826ME-ND	7.68	5.62	4.66	180-026-103L021
	Female	5826FE-ND	6.84	5.01	4.15	180-026-203L021
44	Male	5844ME-ND	9.09	6.65	5.51	180-044-103L021
	Female	5844FE-ND	10.40	7.61	6.31	180-044-203L021
62	Male	5862ME-ND	11.11	8.13	6.74	180-062-103L021
	Female	5862FE-ND	12.45	9.11	7.55	180-062-203L021
78	Male	5878ME-ND	10.38	7.60	6.29	180-078-103L021
	Female	5878FE-ND	10.93	8.00	6.63	180-078-203L021
Solder Cup - with .250" Clinch Nuts, Mating Side						
Tin						
26	Male	6826M-ND	4.57	4.11	3.93	180-026-102-031
62	Male	6862M-ND	6.61	5.93	5.67	180-062-102-031
	Female	6862F-ND	7.41	6.65	6.36	180-062-202-031
78	Male	6878M-ND	7.75	7.42	7.09	180-078-102-031
	Female	6878F-ND	8.09	7.74	7.40	180-078-202-031
Nickel — RoHS Compliant						
15	Male	6815ME-ND	3.45	2.37	1.88	180-015-103L031
	Female	6815FE-ND	3.84	2.63	2.10	180-015-203L031
26	Male	6826ME-ND	7.68	5.62	4.66	180-026-103L031
	Female	6826FE-ND	6.84	5.01	4.15	180-026-203L031
44	Male	6844ME-ND	9.09	6.65	5.51	180-044-103L031
	Female	6844FE-ND	10.40	7.61	6.31	180-044-203L031
62	Male	6862ME-ND	11.11	8.13	6.74	180-062-103L031
	Female	6862FE-ND	12.45	9.11	7.55	180-062-203L031
78	Male	6878ME-ND	10.38	7.60	6.29	180-078-103L031
	Female	6878FE-ND	10.93	8.00	6.63	180-078-203L031
Dip Solder - Nickel — RoHS Compliant						
15	Male	180-15ME-ND	2.99	1.95	1.49	180-015-113R001
	Female	180-15FE-ND	2.50	1.63	1.25	180-015-213R001
26	Male	180-26ME-ND	3.99	2.73	2.18	180-026-113R001
	Female	180-26FE-ND	4.50	3.08	2.45	180-026-213R001
44	Male	180-44ME-ND	7.11	4.87	3.88	180-044-113R001
	Female	180-44FE-ND	7.05	4.83	3.84	180-044-213R001
62	Male	180-62ME-ND	8.13	5.95	4.93	180-062-113R001
	Female	180-62FE-ND	8.21	6.01	4.98	180-062-213R001
78	Male	180-78ME-ND	11.92	8.72	7.23	180-078-113R001
	Female	180-78FE-ND	11.64	8.52	7.06	180-078-213R001
Dip Solder - with .065" Clinch Nuts, Board Side						
Tin						
44	Male	7844M-ND	4.25	3.82	3.65	180-044-112-011
62	Male	7862M-ND	5.62	5.05	4.82	180-062-112-011
	Female	7862F-ND	5.68	5.11	4.88	180-062-212-011
78	Female	7878F-ND	7.83	7.04	6.73	180-078-212-011
Nickel – .098" — RoHS Compliant						
15	Male	7815ME-ND	3.93	2.69	2.14	180-015-113R011
	Female	7815FE-ND	3.45	2.37	1.88	180-015-213R011
26	Male	7826ME-ND	5.49	3.76	2.99	180-026-113R011
	Female	7826FE-ND	6.09	4.17	3.32	180-026-213R011
44	Male	7844ME-ND	7.50	5.49	4.55	180-044-113R011
	Female	7844FE-ND	7.50	5.49	4.55	180-044-213R011
62	Male	7862ME-ND	9.92	7.26	6.02	180-062-113R011
	Female	7862FE-ND	10.05	7.36	6.09	180-062-213R011
78	Male	7878ME-ND	12.65	9.69	8.20	180-078-113R011
	Female	7878FE-ND	12.38	9.48	8.03	180-062-213R011
Dip Solder - with .250" Clinch Nuts, Board Side						
Tin						
62	Male	8862M-ND	5.62	5.05	4.82	180-062-112-021

(Continued)

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

High Density D-Sub Connectors 180 Series *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Nickel — RoHS Compliant						
15	Male	8815ME-ND	3.93	2.69	2.14	180-015-113R021
	Female	8815FE-ND	3.45	2.37	1.88	180-015-213R021
26	Male	8826ME-ND	5.49	3.76	2.99	180-026-113R021
	Female	8826FE-ND	6.09	4.17	3.32	180-026-213R021
44	Male	8844ME-ND	7.50	5.49	4.55	180-044-113R021
	Female	8844FE-ND	7.50	5.49	4.55	180-044-213R021
62	Male	8862ME-ND	9.92	7.26	6.02	180-062-113R021
	Female	8862FE-ND	10.05	7.36	6.09	180-062-213R021
78	Male	8878ME-ND	12.65	9.69	8.20	180-078-113R021
	Female	8878FE-ND	12.38	9.48	8.03	180-078-213R021
Dip Solder - with .250" Clinch Nuts, Mating Side						
Tin						
44	Male	9844M-ND	4.63	4.16	3.98	180-044-112-031
62	Male	9862M-ND	5.62	5.05	4.82	180-062-112-031
	Female	9862F-ND	5.68	5.11	4.88	180-062-212-031
78	Male	9878M-ND	8.00	7.19	6.87	180-078-112-031
Nickel — RoHS Compliant						
15	Male	9815ME-ND	3.93	2.69	2.14	180-015-113R031
	Female	9815FE-ND	3.45	2.37	1.88	180-015-213R031
26	Male	9826ME-ND	5.49	3.76	2.99	180-026-113R031
	Female	9826FE-ND	6.09	4.17	3.32	180-026-213R031
44	Male	9844ME-ND	7.50	5.49	4.55	180-044-113R031
	Female	9844FE-ND	7.50	5.49	4.55	180-044-213R031
62	Male	9862ME-ND	9.92	7.26	6.02	180-062-113R031
	Female	9862FE-ND	10.05	7.36	6.09	180-062-213R031
78	Male	9878ME-ND	12.65	9.69	8.20	180-078-113R031
	Female	9878FE-ND	12.38	9.48	8.03	180-078-213R031
Crimp - Tin — RoHS Compliant						
15	Male	815MER-ND	2.61	1.70	1.30	180-015-172L000
	Female	815FER-ND	2.61	1.70	1.30	180-015-272L000
26	Male	826MER-ND	6.63	4.54	3.61	180-026-172L000
	Female	826FER-ND	7.17	4.91	3.91	180-026-272L000
44	Male	844MER-ND	6.77	4.95	4.11	180-044-172L000
	Female	844FER-ND	6.89	5.05	4.18	180-044-272L000
62	Male	862MER-ND	8.64	6.32	5.24	180-062-172L000
	Female	862FER-ND	7.88	5.77	4.78	180-062-272L000
78	Male	878MER-ND	13.22	10.12	8.57	180-078-172L000
	Female	878FER-ND	10.13	7.41	6.14	180-078-272L000
Crimp - Tin with .098" Clinch Nuts, Board Side — RoHS Compliant						
15	Male	1815MER-ND	3.21	2.20	1.75	180-015-172L010
	Female	1815FER-ND	3.21	2.20	1.75	180-015-272L010
26	Male	1826MER-ND	6.36	4.66	3.86	180-026-172L010
	Female	1826FER-ND	6.84	5.01	4.15	180-026-272L010
44	Male	1844MER-ND	7.58	5.55	4.59	180-044-172L010
	Female	1844FER-ND	7.68	5.62	4.66	180-044-272L010
62	Male	1862MER-ND	9.44	6.91	5.73	180-062-172L010
	Female	1862FER-ND	8.69	6.36	5.27	180-062-272L010
78	Male	1878MER-ND	13.94	10.67	9.04	180-078-172L010
	Female	1878FER-ND	10.93	8.00	6.63	180-078-272L010
Crimp - Tin with .250" Clinch Nuts, Board Side — RoHS Compliant						
15	Male	2815MER-ND	3.21	2.20	1.75	180-015-172L020
	Female	2815FER-ND	3.21	2.20	1.75	180-015-272L020
26	Male	2826MER-ND	6.36	4.66	3.86	180-026-172L020
	Female	2826FER-ND	6.84	5.01	4.15	180-026-272L020
44	Male	2844MER-ND	7.58	5.55	4.59	180-044-172L020
	Female	2844FER-ND	7.68	5.62	4.66	180-044-272L020
62	Male	2862MER-ND	9.44	6.91	5.73	180-062-172L020
	Female	2862FER-ND	8.69	6.36	5.27	180-062-272L020
78	Male	2878MER-ND	13.94	10.67	9.04	180-078-172L020
	Female	2878FER-ND	10.93	8.00	6.63	180-078-272L020
Crimp- Tin with .250" Clinch Nuts, Mating Side — RoHS Compliant						
15	Male	3815MER-ND	3.21	2.20	1.75	180-015-172L030
	Female	3815FER-ND	3.21	2.20	1.75	180-015-272L030
26	Male	3826MER-ND	6.36	4.66	3.86	180-026-172L030
	Female	3826FER-ND	6.84	5.01	4.15	180-026-272L030
44	Male	3844MER-ND	7.58	5.55	4.59	180-044-172L030
	Female	3844FER-ND	7.68	5.62	4.66	180-044-272L030
62	Male	3862MER-ND	9.44	6.91	5.73	180-062-172L030
	Female	3862FER-ND	8.69	6.36	5.27	180-062-272L030
78	Male	3878MER-ND	13.94	10.67	9.04	180-078-172L030
	Female	3878FER-ND	10.93	8.00	6.63	180-078-272L030
Solder Cup - Tin — RoHS Compliant						
15	Male	T815MER-ND	2.92	1.90	1.46	180-015-102L001
	Female	T815FER-ND	3.24	2.11	1.61	180-015-202L001
26	Male	T826MER-ND	6.87	5.03	4.17	180-026-102L001
	Female	T826FER-ND	7.17	4.91	3.91	180-026-202L001
44	Male	T844MER-ND	8.28	6.06	5.02	180-044-102L001
44	Female	T844FER-ND	9.60	7.02	5.82	180-044-202L001
62	Male	T862MER-ND	10.00	7.32	6.06	180-062-102L001
	Female	T862FER-ND	11.64	8.52	7.06	180-062-202L001
78	Male	T878MER-ND	9.62	7.04	5.83	180-078-102L001
	Female	T878FER-ND	8.05	5.90	4.89	180-078-202L001
Solder Cup - Tin with .098" Clinch Nuts, Board Side — RoHS Compliant						
15	Male	4815MER-ND	3.45	2.37	1.88	180-015-102L011
	Female	4815FER-ND	3.84	2.63	2.10	180-015-202L011
26	Male	4826MER-ND	7.68	5.62	4.66	180-026-102L011
	Female	4826FER-ND	6.84	5.01	4.15	180-026-202L011
44	Male	4844MER-ND	9.09	6.65	5.51	180-044-102L011
	Female	4844FER-ND	10.40	7.61	6.31	180-044-202L011
62	Male	4862MER-ND	10.83	7.93	6.57	180-062-102L011
	Female	4862FER-ND	12.45	9.11	7.55	180-062-202L011
78	Male	4878MER-ND	14.01	10.72	9.08	180-078-102L011
	Female	4878FER-ND	10.93	8.00	6.63	180-078-202L011
Solder Cup - Tin with .250" Clinch Nuts, Board Side — RoHS Compliant						
15	Male	5815MER-ND	3.45	2.37	1.88	180-015-102L021
	Female	5815FER-ND	3.84	2.63	2.10	180-015-202L021
26	Male	5826MER-ND	7.68	5.62	4.66	180-026-102L021
	Female	5826FER-ND	6.84	5.01	4.15	180-026-202L021
44	Male	5844MER-ND	9.09	6.65	5.51	180-044-102L021
	Female	5844FER-ND	10.40	7.61	6.31	180-044-202L021
62	Male	5862MER-ND	10.83	7.93	6.57	180-062-102L021
	Female	5862FER-ND	12.45	9.11	7.55	180-062-202L021
78	Male	5878MER-ND	14.01	10.72	9.08	180-078-102L021
	Female	5878FER-ND	10.93	8.00	6.63	180-078-202L021
Solder Cup - Tin with .250" Clinch Nuts, Mating Side — RoHS Compliant						
15	Male	6815MER-ND	3.45	2.37	1.88	180-015-102L031
	Female	6815FER-ND	3.84	2.63	2.10	180-015-202L031
26	Male	6826MER-ND	7.68	5.62	4.66	180-026-102L031
	Female	6826FER-ND	6.84	5.01	4.15	180-026-202L031
44	Male	6844MER-ND	9.09	6.65	5.51	180-044-102L031
	Female	6844FER-ND	10.40	7.61	6.31	180-044-202L031
62	Male	6862MER-ND	10.83	7.93	6.57	180-062-102L031
	Female	6862FER-ND	12.45	9.11	7.55	180-062-202L031
78	Male	6878MER-ND	14.01	10.72	9.08	180-078-102L031
	Female	6878FER-ND	10.93	8.00	6.63	180-078-202L031

Machined High Density D-Sub Connectors 180 Series

Features: • Screw machined contacts offer high reliability. • Metal Shell provides EMI/RFI shielding. • Plug shells have indents to provide grounding and additional retention • Connectors will fit in standard D-sub backshells. • Contacts will accept (28 ~ 24) gauge wire. **Materials:** • Shell: Steel, Nickel plated •Insulator: Glass-filled, PBT Thermoplastic. U.L. rated 94V-O • Machined contacts: Brass, Gold Flash Plated

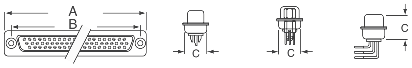

No. of Pins	Dimensions – Inch		
	A	B	C
15	0.643	0.984	1.213
26	0.971	1.312	1.541
44	1.511	1.852	2.088
62	2.159	2.500	2.729

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Dip Solder - Nickel with .098" Clinch Nuts, Board Side						
15	M	180-M1511DMN-ND	5.22	3.58	2.85	180-M15-113R011
	F	180-M1511DFN-ND	6.66	4.56	3.63	180-M15-213R011
26	M	180-M2611DMN-ND	6.62	4.84	4.01	180-M26-113R011
	F	180-M2611DFN-ND	8.43	6.17	5.12	180-M26-213R011
44	M	180-M4411DMN-ND	9.44	6.91	5.73	180-M44-113R011
	F	180-M4411DFN-ND	11.70	8.96	7.59	180-M44-213R011
62	M	180-M6211DMN-ND	11.52	8.82	7.47	180-M62-113R011
	F	180-M6211DFN-ND	15.50	11.87	10.05	180-M62-213R011
Dip Solder - Nickel with .120" Mounting Hole						
15	M	180-M1501DMN-ND	4.32	2.96	2.36	180-M15-113R001
	F	180-M1501DFN-ND	5.76	3.95	3.14	180-M15-213R001
26	M	180-M2601DMN-ND	6.96	4.77	3.79	180-M26-113R001
	F	180-M2601DFN-ND	7.68	5.62	4.66	180-M26-213R001
44	M	180-M4401DMN-ND	8.69	6.36	5.27	180-M44-113R001
	F	180-M4401DFN-ND	12.32	9.02	7.47	180-M44-213R001
62	M	180-M6201DMN-ND	12.12	8.87	7.35	180-M62-113R001
	F	180-M6201DFN-ND	14.82	11.35	9.61	180-M62-213R001
Dip Solder - Nickel with .250" Clinch Nuts, Board Side						
15	M	180-M1521DMN-ND	5.22	3.58	2.85	180-M15-113R021
	F	180-M1521DFN-ND	6.66	4.56	3.63	180-M15-213R021
26	M	180-M2621DMN-ND	6.62	4.84	4.01	180-M26-113R021
	F	180-M2621DFN-ND	8.43	6.17	5.12	180-M26-213R021
44	M	180-M4421DMN-ND	9.44	6.91	5.73	180-M44-113R021
	F	180-M4421DFN-ND	11.70	8.96	7.59	180-M44-213R021
62	M	180-M6221DMN-ND	11.52	8.82	7.47	180-M62-113R021
	F	180-M6221DFN-ND	15.50	11.87	10.05	180-M62-213R021
Dip Solder - Nickel with .250" Clinch Nuts, Mating Side						
15	M	180-M1531DMN-ND	5.22	3.58	2.85	180-M15-113R031
	F	180-M1531DFN-ND	6.66	4.56	3.63	180-M15-213R031
26	M	180-M2631DMN-ND	6.62	4.84	4.01	180-M26-113R031
	F	180-M2631DFN-ND	8.43	6.17	5.12	180-M26-213R031
44	M	180-M4431DMN-ND	9.44	6.91	5.73	180-M44-113R031
	F	180-M4431DFN-ND	11.70	8.96	7.59	180-M44-213R031
62	M	180-M6231DMN-ND	11.52	8.82	7.47	180-M62-113R031
	F	180-M6231DFN-ND	15.50	11.87	10.05	180-M62-213R031
Dip Solder - Nickel with Board Lock						
15	M	180-M1591DMN-ND	5.82	3.99	3.17	180-M15-113R911
	F	180-M1591DFN-ND	7.26	4.97	3.96	180-M15-213R911
26	M	180-M2691DMN-ND	7.37	5.40	4.47	180-M26-113R911
	F	180-M2691DFN-ND	8.94	6.54	5.42	180-M26-213R911
44	M	180-M4491DMN-ND	10.20	7.47	6.19	180-M44-113R911
	F	180-M4491DFN-ND	12.15	9.31	7.88	180-M44-213R911
62	M	180-M6291DMN-ND	11.97	9.17	7.76	180-M62-113R911
	F	180-M4491DFN-ND	12.15	9.31	7.88	180-M44-213R911
R/A PCB .350" footprint Nickel with Board Lock Bracket						
15	M	181-M1541RMN-ND	7.27	5.32	4.41	181-M15-113R141
	F	181-M1541RFN-ND	7.47	5.47	4.53	181-M15-213R141
26	M	181-M2641RMN-ND	11.92	8.72	7.23	181-M26-113R141
	F	181-M2641RFN-ND	12.32	9.02	7.47	181-M26-213R141
44	M	181-M4441RMN-ND	15.72	12.04	10.19	181-M44-113R141
	F	181-M4441RFN-ND	16.45	12.59	10.66	181-M44-213R141
62	M	181-M6241RMN-ND	22.05	16.88	14.29	181-M62-113R141
	F	181-M6241RFN-ND	20.86	16.60	14.30	181-M62-213R141
Solder Cup - Nickel with .098" Clinch Nuts, Board Side						
15	M	180-M1511MN-ND	4.56	3.13	2.49	180-M15-103L011
	F	180-M1511FN-ND	6.84	4.69	3.73	180-M15-203L011
26	M	180-M2611MN-ND	6.57	4.81	3.98	180-M26-103L011
	F	180-M2611FN-ND	10.00	7.32	6.06	180-M26-203L011
44	M	180-M4411MN-ND	10.10	7.39	6.12	180-M44-103L011
	F	180-M4411FN-ND	14.19	10.86	9.20	180-M44-203L011
62	M	180-M6211MN-ND	12.29	9.41	7.97	180-M62-103L011
	F	180-M6211FN-ND	19.65	15.05	12.74	180-M62-203L011
Solder Cup - Nickel with .120" Mounting Hole						
15	M	180-M1501MN-ND	3.66	2.51	2.00	180-M15-103L001
	F	180-M1501FN-ND	5.94	4.07	3.24	180-M15-203L001
26	M	180-M2601MN-ND	6.90	4.73	3.76	180-M26-103L001
	F	180-M2601FN-ND	9.24	6.76	5.60	180-M26-203L001
44	M	180-M4401MN-ND	9.34	6.84	5.67	180-M44-103L001
	F	180-M4401FN-ND	13.51	10.34	8.76	180-M44-203L001
62	M	180-M6201MN-ND	11.61	8.89	7.53	180-M62-103L001
	F	180-M6201FN-ND	18.98	14.53	12.30	180-M62-203L001
Solder Cup - Nickel with .250" Clinch Nuts, Board Side						
15	M	180-M1521MN-ND	4.56	3.13	2.49	180-M15-103L021
	F	180-M1521FN-ND	6.84	4.69	3.73	180-M15-203L021
26	M	180-M2621MN-ND	6.57	4.81	3.98	180-M26-103L021
	F	180-M2621FN-ND	10.00	7.32	6.06	180-M26-203L021
44	M	180-M4421MN-ND	10.10	7.39	6.12	180-M44-103L021
	F	180-M4421FN-ND	14.19	10.86	9.20	180-M44-203L021
62	M	180-M6221MN-ND	12.29	9.41	7.97	180-M62-103L021
	F	180-M6221FN-ND	19.65	15.05	12.74	180-M62-203L021
Solder Cup - Nickel with .250" Clinch Nuts, Mating Side						
15	M	180-M1531MN-ND	4.56	3.13	2.49	180-M15-103L031
	F	180-M1531FN-ND	6.84	4.69	3.73	180-M15-203L031
26	M	180-M2631MN-ND	6.57	4.81	3.98	180-M26-103L031
	F	180-M2631FN-ND	10.00	7.32	6.06	180-M26-203L031
44	M	180-M4431MN-ND	10.10	7.39	6.12	180-M44-103L031
	F	180-M4431FN-ND	14.19	10.86	9.20	180-M44-203L031
62	M	180-M6231MN-ND	12.29	9.41	7.97	180-M62-103L031
	F	180-M6231FN-ND	19.65	15.05	12.74	180-M62-203L031

M = Male F = Female

High Density 90° PC Mount D-Sub Connector

181 Series (.350" Footprint)

SPECIFICATIONS: • **Contact Rating:** 5 Amps • **Dielectric Strength:** 1000V AC RMS • **Insulation Resistance:** 1000MΩ • **Contact Material:** Brass • **Contact Finish:** Gold flash • **Operating Temperature:** -55°C ~ 150°C • **Shell Material:** Steel, Nickel plated • **Insulations Material:** Glass-Filled Polyester (UL 94V-0) • **Gender:** Receptacle (female)

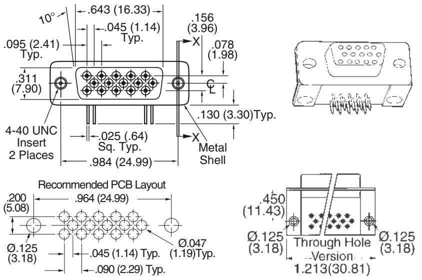

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
With 4-40 Inserts and Inside Ground Straps						
15	Male	181-15RME-ND	3.15	2.16	1.72	181-015-113R171
	Female	815RFE-ND	3.81	2.61	2.08	181-015-213R171
26	Male	181-26RME-ND	6.72	4.60	3.66	181-026-113R171
	Female	826RFE-ND	8.86	6.49	5.38	181-026-213R171
62	Male	181-62RME-ND	11.72	8.57	7.10	181-062-113R171
	Female	862RFE-ND	11.97	9.17	7.76	181-062-213R171
44	Male	181-44RME-ND	8.46	6.19	5.13	181-044-113R171
	Female	844RFE-ND	9.57	7.00	5.80	181-044-213R171
With 4-40 Inserts and Board Locks						
15	Male	181-115RME-ND	3.51	2.41	1.92	181-015-113R531
	Female	181-115RFE-ND	3.51	2.41	1.92	181-015-213R531
26	Male	181-126RME-ND	7.41	5.08	4.04	181-026-113R531
	Female	181-126RFE-ND	5.58	3.82	3.04	181-026-213R531
44	Male	181-144RME-ND	9.04	6.62	5.48	181-044-113R531
	Female	181-144RFE-ND	6.75	4.62	3.68	181-044-213R531
62	Male	181-162RME-ND	12.35	9.04	7.49	181-062-113R531
	Female	181-162RFE-ND	7.27	5.32	4.41	181-062-213R531
With 4-40 Screw Locks and Board Locks						
15	Male	181-215RME-ND	5.46	3.74	2.98	181-015-113R561
	Female	181-215RFE-ND	3.24	2.22	1.77	181-015-213R561
26	Male	181-226RME-ND	7.73	5.66	4.69	181-026-113R561
	Female	181-226RFE-ND	6.96	4.77	3.79	181-026-213R561
44	Male	181-244RME-ND	10.45	7.65	6.34	181-044-113R561
	Female	181-244RFE-ND	7.27	5.32	4.41	181-044-213R561
62	Male	181-262RME-ND	12.33	9.44	8.00	181-062-113R561
	Female	181-262RFE-ND	8.81	6.45	5.34	181-062-213R561

Right Angle D-Sub Connectors

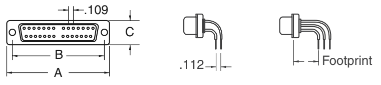

Conn. Size	Dimensions (Inch)		
	A	B	C
9	1.213	.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494
50	2.635	2.406	0.605

Materials: • **Shell:** Steel, zinc plated with yellow chromate or tin plated • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Machined Contacts: Male:** Brass; **Female:** Phosphor bronze • **Plating:** Gold flash on entire contact

173 Series (.283" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
37	Male	173-37M-ND	13.28	11.45	7.79	173-037-111-141
Tin						
37	Female	173-137F-ND	9.18	8.79	8.40	173-037-212-141
Tin — RoHS Compliant						
9	Male	173-109MA-ND	6.00	4.11	3.27	173-009-112R141
15	Male	173-115MA-ND	10.07	7.37	6.11	173-015-112R141
25	Male	173-125MA-ND	9.47	6.93	5.74	173-025-112R141
	Female	173-125FA-ND	12.24	9.38	7.94	173-025-212R141
37	Male	173-137MA-ND	11.75	9.00	7.62	173-037-112R141

173E Series (.283" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Yellow Chromate						
15	Female	1173-15FE-ND	4.77	3.66	3.50	173-E15-211-001
37	Male	1173-37ME-ND	6.02	5.41	5.17	173-E37-111-001
50	Female	1173-50FE-ND	12.29	11.77	11.24	173-E50-211-001
9	Female	1173-09FEA-ND	3.68	2.83	2.71	173-E09-211R001
15	Male	1173-15MEA-ND	3.64	2.79	2.67	173-E15-111R001
	Female	1173-15FEA-ND	4.41	3.96	3.79	173-E15-211R001
25	Female	1173-25FEA-ND	7.32	6.57	6.28	173-E25-211R001
37	Male	1173-37MEA-ND	6.61	5.94	5.68	173-E37-111R001
	Female	1173-37FEA-ND	9.07	8.69	8.30	173-E37-211R001
50	Male	1173-50MEA-ND	12.58	12.04	11.51	173-E50-111R001
Tin						
15	Female	1173-115FE-ND	4.34	3.33	3.18	173-E15-212-001
37	Male	1173-137ME-ND	5.47	4.91	4.70	173-E37-112-001
	Female	1173-137FE-ND	8.12	7.29	6.97	173-E37-212-001
Nickel — RoHS Compliant						
9	Male	1173-109MEA-ND	4.17	2.86	2.27	173-E09-113R001
	Female	1173-109FEA-ND	5.58	3.82	3.04	173-E09-213R001
15	Male	1173-115MEA-ND	5.52	3.78	3.01	173-E15-113R001
	Female	1173-215FEA-ND	6.89	5.05	4.18	173-E15-213R001
25	Male	1173-125MEA-ND	8.16	5.97	4.95	173-E25-113R001
	Female	1173-125FEA-ND	11.08	8.11	6.72	173-E25-213R001
37	Male	1173-137MEA-ND	10.61	7.76	6.43	173-E37-113R001
	Female	1173-137FEA-ND	14.10	10.79	9.14	173-E37-213R001
50	Male	1173-150MEA-ND	19.56	14.98	12.68	173-E50-113R001
	Female	1173-150FEA-ND	20.72	15.86	13.43	173-E50-213R001
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
15	Male	173-15ME-ND	4.57	3.51	3.36	173-E15-111-141
	Female	173-15FE-ND	4.93	4.43	4.24	173-E15-211-141
25	Male	173-25ME-ND	5.28	4.75	4.54	173-E25-111-141
37	Male	173-37ME-ND	6.93	6.23	5.95	173-E37-111-141
9	Male	173-09MEA-ND	4.04	3.10	2.97	173-E09-111R141
15	Male	173-15MEA-ND	4.92	3.78	3.61	173-E15-111R141
	Female	173-15FEA-ND	5.75	5.17	4.94	173-E15-211R141
25	Male	173-25MEA-ND	6.16	5.53	5.29	173-E25-111R141
	Female	173-25FEA-ND	7.76	7.43	7.10	173-E25-211R141
37	Male	173-37MEA-ND	8.08	7.26	6.94	173-E37-111R141
	Female	173-37FEA-ND	10.61	10.16	9.71	173-E37-211R141
50	Male	173-50MEA-ND	14.33	13.72	13.11	173-E50-111R141
	Female	173-50FEA-ND	15.12	14.48	13.83	173-E50-211R141
Tin						
9	Male	173-109ME-ND	3.25	2.49	2.39	173-E09-112-141
25	Male	173-125ME-ND	4.88	4.39	4.19	173-E25-112-141
	Female	173-125FE-ND	6.63	5.96	5.70	173-E25-212-141
37	Male	173-137ME-ND	6.38	5.73	5.48	173-E37-112-141
	Female	173-137FE-ND	8.35	7.99	7.64	173-E37-212-141
Nickel — RoHS Compliant						
9	Male	173-109MEA-ND	6.06	4.15	3.30	173-E09-113R141
	Female	173-109FEA-ND	7.41	5.08	4.04	173-E09-213R141
15	Male	173-115MEA-ND	6.72	4.92	4.07	173-E15-113R141
	Female	173-115FEA-ND	8.56	6.27	5.19	173-E15-213R141
25	Male	173-125MEA-ND	9.17	6.71	5.56	173-E25-113R141
	Female	173-125FEA-ND	12.42	9.09	7.53	173-E25-213R141
37	Male	173-137MEA-ND	11.97	8.76	7.26	173-E37-113R141
	Female	173-137FEA-ND	14.28	10.93	9.26	173-E37-213R141
50	Male	173-150MEA-ND	22.27	17.05	14.44	173-E50-113R141
	Female	173-150FEA-ND	21.37	17.00	14.65	173-E50-213R141
Short Bracket with 4-40 Screw						
Yellow Chromate						
9	Male	173-209MEA-ND	3.81	2.93	2.80	173-E09-111R241
	Female	173-209FEA-ND	4.68	3.59	3.44	173-E09-211R241
15	Male	173-215MEA-ND	4.64	3.56	3.41	173-E15-111R241
	Female	1173-115FEA-ND	5.75	5.17	4.94	173-E15-211R241
37	Male	173-237MEA-ND	7.63	6.85	6.55	173-E37-111R241
	Female	173-237FEA-ND	10.01	9.59	9.16	173-E37-211R241
50	Male	1173-250MEA-ND	13.52	12.94	12.36	173-E50-111R241
	Female	1173-250FEA-ND	15.12	14.47	13.83	173-E50-211R241

174 Series (.370" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Short Bracket with 4-40 Screw Lock						
Tin						
37	Male	174-137M-ND	6.88	6.18	5.91	174-037-112-141
	Female	174-137F-ND	7.82	7.49	7.16	174-037-212-141
Tin — RoHS Compliant						
9	Male	174-109MA-ND	6.60	4.52	3.60	174-009-112R141
	Female	174-109FA-ND	6.79	4.97	4.12	174-009-212R141
15	Male	174-115MA-ND	8.79	6.43	5.33	174-015-112R141
	Female	174-115FA-ND	8.94	6.54	5.42	174-015-212R141
25	Male	174-125MA-ND	11.44	8.37	6.94	174-025-112R141
	Female	174-125FA-ND	12.76	9.77	8.28	174-025-212R141
37	Male	174-137MA-ND	11.54	8.84	7.49	174-037-112R141
	Female	174-137FA-ND	14.19	10.86	9.20	174-037-212R141
50	Female	174-150FA-ND	23.51	18.70	16.12	174-050-212R141

174E Series (.370" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Yellow Chromate						
9	Male	1174-09ME-ND	2.34	1.80	1.72	174-E09-111-001
15	Male	1174-15ME-ND	4.36	3.34	3.20	174-E15-111-001
	Female	1174-15FE-ND	4.47	3.44	3.29	174-E15-211-001
25	Male	1174-25ME-ND	5.10	4.58	4.38	174-E25-111-001
	Female	1174-25FE-ND	6.60	5.93	5.67	174-E25-211-001
37	Male	1174-37ME-ND	5.87	5.27	5.04	174-E37-111-001
	Female	1174-37FE-ND	7.48	6.72	6.43	174-E37-211-001
9	Male	1174-09MEA-ND	2.56	1.97	1.88	174-E09-111R001
	Female	1174-09FEA-ND	3.41	2.62	2.51	174-E09-211R001
15	Male	1174-15MEA-ND	4.78	3.67	3.51	174-E15-111R001
	Female	1174-15FEA-ND	4.91	3.77	3.61	174-E15-211R001
25	Male	1174-25MEA-ND	5.60	5.03	4.81	174-E25-111R001
	Female	1174-25FEA-ND	7.25	6.51	6.23	174-E25-211R001
37	Male	1174-37MEA-ND	6.44	5.79	5.53	174-E37-111R001
	Female	1174-37FEA-ND	8.22	7.39	7.06	174-E37-211R001
50	Female	1174-50FEA-ND	12.56	12.03	11.49	174-E50-211R001
Tin						
15	Male	1174-115ME-ND	3.96	3.04	2.91	174-E15-112-001
	Female	1174-115FE-ND	4.06	3.12	2.98	174-E15-212-001
37	Female	1174-137FE-ND	6.78	6.09	5.83	174-E37-212-001
50	Male	1174-150ME-ND	11.27	10.79	10.31	174-E50-112-001
	Female	1174-150FE-ND	12.29	11.77	11.24	174-E50-212-001
Nickel — RoHS Compliant						
9	Male	1174-109MEA-ND	4.11	2.82	2.24	174-E09-113R001
	Female	1174-109FEA-ND	5.82	3.99	3.17	174-E09-213R001
15	Male	1174-115MEA-ND	6.49	4.75	3.94	174-E15-113R001
	Female	1174-115FEA-ND	6.64	4.86	4.03	174-E15-213R001
25	Male	1174-125MEA-ND	8.99	6.58	5.45	174-E25-113R001
	Female	1174-125FEA-ND	11.64	8.52	7.06	174-E25-213R001
37	Male	1174-137MEA-ND	10.35	7.58	6.28	174-E37-113R001
	Female	1174-137FEA-ND	11.81	9.05	7.66	174-E37-213R001
50	Male	1174-150MEA-ND	11.97	8.76	7.26	174-E50-113R001
	Female	1174-150FEA-ND	19.54	14.96	12.67	174-E50-213R001
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
9	Male	174-09ME-ND	3.43	2.63	2.52	174-E09-111-141
	Female	174-09FE-ND	4.20	3.22	3.08	174-E09-211-141
15	Male	174-15ME-ND	4.58	4.12	3.94	174-E15-111-141
	Female	174-15FE-ND	4.68	4.21	4.02	174-E15-211-141
25	Male	174-25ME-ND	6.02	5.41	5.17	174-E25-111-141
	Female	174-25FE-ND	7.52	6.75	6.45	174-E25-211-141
37	Male	174-37ME-ND	6.78	6.09	5.83	174-E37-111-141
	Female	174-37FE-ND	7.76	7.43	7.10	174-E37-211-141
9	Male	174-09MEA-ND	3.99	3.07	2.93	174-E09-111R141
	Female	174-09FEA-ND	4.89	3.76	3.59	174-E09-211R141
15	Male	174-15MEA-ND	5.34	4.80	4.59	174-E15-111R141
	Female	174-15FEA-ND	5.46	4.91	4.69	174-E15-211R141
25	Male	174-25MEA-ND	7.01	6.30	6.02	174-E25-111R141
	Female	174-25FEA-ND	8.10	7.76	7.41	174-E25-211R141
37	Male	174-37MEA-ND	7.91	7.10	6.79	174-E37-111R141
	Female	174-37FEA-ND	9.05	8.67	8.28	174-E37-211R141
50	Female	174-50FEA-ND	14.33	13.72	13.11	174-E50-211R141
Tin						
9	Male	174-109ME-ND	3.21	2.46	2.36	174-E09-112-141
15	Male	174-115ME-ND	4.25	3.82	3.65	174-E15-112-141
	Female	174-115FE-ND	4.33	3.89	3.72	174-E15-212-141
25	Male	174-125ME-ND	5.55	4.99	4.77	174-E25-112-141
	Female	174-125FE-ND	6.92	6.21	5.94	174-E25-212-141
37	Male	174-137ME-ND	6.25	5.61	5.37	174-E37-112-141
	Female	174-137FE-ND	7.70	6.92	6.61	174-E37-212-141
50	Female	174-150FE-ND	12.97	12.42	11.86	174-E50-212-141
Nickel — RoHS Compliant						
9	Male	174-109MEA-ND	6.00	4.11	3.27	174-E09-113R141
	Female	174-109FEA-ND	7.35	5.03	4.01	174-E09-213R141
15	Male	174-115MEA-ND	7.95	5.82	4.82	174-E15-113R141
	Female	174-115FEA-ND	8.11	5.93	4.92	174-E15-213R141
25	Male	174-125MEA-ND	10.30	7.54	6.25	174-E25-113R141
	Female	174-125FEA-ND	11.59	8.87	7.52	174-E25-213R141

(Continued)

Right Angle D-Sub Connectors

174E Series (.370" Footprint) *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
37	Male	174-137MEA-ND	11.69	8.56	7.09	174-E37-113R141
	Female	174-137FEA-ND	12.90	9.88	8.36	174-E37-213R141
50	Male	174-150MEA-ND	22.30	17.07	14.45	174-E50-113R141
	Female	174-150FEA-ND	21.37	17.00	14.65	174-E50-213R141
Short Bracket with 4-40 Screw						
Yellow Chromate						
9	Male	174-209MEA-ND	3.77	2.89	2.77	174-E09-111R241
	Female	174-209FEA-ND	4.62	3.54	3.39	174-E09-211R241
15	Male	174-215MEA-ND	5.04	4.53	4.33	174-E15-111R241
	Female	174-215FEA-ND	5.15	4.63	4.43	174-E15-211R241
25	Female	174-225FEA-ND	8.27	7.43	7.10	174-E25-211R241
37	Male	174-237MEA-ND	7.46	6.70	6.41	174-E37-111R241
	Female	174-237FEA-ND	8.54	8.18	7.81	174-E37-211R241

175 Series (.454" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Long Bracket with 4-40 Screw Lock - Tin						
Tin — RoHS Compliant						
9	Male	175-109MA-ND	7.42	5.43	4.50	175-009-112R151
15	Male	175-115MA-ND	10.30	7.54	6.25	175-015-112R151
	Female	175-115FA-ND	8.87	8.49	8.12	175-015-212R151
25	Male	175-125MA-ND	14.19	10.86	9.20	175-025-112R151
	Female	175-125FA-ND	8.42	8.07	7.71	175-025-212R151
37	Male	175-137MA-ND	19.83	15.19	12.86	175-037-112R151
	Female	175-137FA-ND	17.21	13.18	11.16	175-037-212R151

177 Series (.590" Footprint)

Conn. Size	Dimensions (Inch)		
	A	B	C
9	1.228	0.984	0.436
15	1.556	1.312	0.763
37	2.742	2.500	1.962

Materials: • **Shell:** Steel, zinc with tin plating; or plastic • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Stamped Contacts:** Cupronickel alloys • **Plating:** Gold over nickel on mating area, tin/lead on solder tails

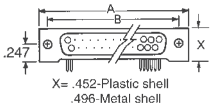

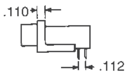

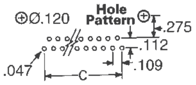

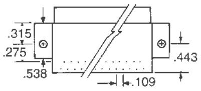

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Metal Shell with Inside Ground Straps and .120" Diameter Hole						
15	Male	177-715M-ND	4.17	3.74	3.58	177-015-112-161
	Female	177-715F-ND	4.28	3.85	3.68	177-015-212-161
Metal Shell with Inside Ground Straps and 4-40 Flush Insert						
9	Female	309F-ND	5.35	4.81	4.60	177-009-212-171
Metal Shell with Inside Ground Straps and 4-40 Hex Standoff						
37	Male	177-837M-ND	6.32	5.67	5.42	177-037-112-181
Plastic Shell with .120" Diameter Hole						
15	Male	177-515M-ND	4.38	3.36	3.21	177-015-110-061
Plastic Shell with 4-40 Flush Insert						
15	Male	415M-ND	4.68	4.21	4.02	177-015-110-071
Plastic Shell with 4-40 Hex Standoff						
15	Male	177-615M-ND	3.96	3.04	2.91	177-015-110-081
37	Male	177-637M-ND	5.77	5.18	4.95	177-037-110-081
	Female	177-637F-ND	5.68	5.11	4.88	177-037-210-081

182 Economy Series (.318" Footprint)

Materials:

- **Shell-RoHS Compliant:** Nickel plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Brass
- **Plating:** Gold flash on entire contact

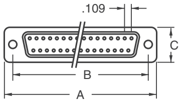

Connector Size	Dimensions (Inch)		
	A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

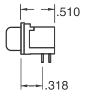

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Inside Ground Straps and .120" Diameter Hole						
Nickel Shell						
9	Male	182-709ME-ND	1.98	1.29	.99	182-009-113R161
	Female	182-709FE-ND	2.05	1.34	1.03	182-009-213R161
15	Male	182-715ME-ND	2.30	1.50	1.15	182-015-113R161
	Female	182-715FE-ND	2.44	1.59	1.22	182-015-213R161
25	Male	182-725ME-ND	2.85	1.86	1.42	182-025-113R161
	Female	182-725FE-ND	2.92	1.90	1.46	182-025-213R161
37	Male	182-737ME-ND	3.39	2.32	1.85	182-037-113R161
	Female	182-737FE-ND	3.54	2.43	1.93	182-037-213R161
Inside Ground Straps and 4-40 Flush Insert						
Nickel Shell						
9	Male	182-909ME-ND	1.98	1.29	.99	182-009-113R171
	Female	182-909FE-ND	2.05	1.34	1.03	182-009-213R171
15	Male	182-915ME-ND	2.30	1.50	1.15	182-015-113R171
	Female	182-915FE-ND	2.44	1.59	1.22	182-015-213R171
25	Male	182-925ME-ND	2.85	1.86	1.42	182-025-113R171
	Female	182-925FE-ND	2.92	1.90	1.46	182-025-213R171
37	Male	182-937ME-ND	3.39	2.32	1.85	182-037-113R171
	Female	182-937FE-ND	3.54	2.43	1.93	182-037-213R171
Inside Ground Straps and 4-40 Hex Standoff						
Nickel Shell						
9	Male	182-809ME-ND	2.40	1.56	1.20	182-009-113R181
	Female	182-809FE-ND	2.50	1.63	1.25	182-009-213R181
15	Male	182-815ME-ND	2.68	1.74	1.34	182-015-113R181
	Female	182-815FE-ND	2.89	1.88	1.44	182-015-213R181
25	Male	182-825ME-ND	3.44	2.24	1.72	182-025-113R181
	Female	182-825FE-ND	3.00	2.06	1.64	182-025-213R181
37	Male	182-837ME-ND	3.78	2.59	2.06	182-037-113R181
	Female	182-837FE-ND	3.87	2.65	2.11	182-037-213R181
Fork Board Locks in Front Hole and 4-40 Flush Insert						
Nickel Shell						
9	Male	182-09ME-ND	1.98	1.29	.99	182-009-113R531
	Female	182-09FE-ND	2.05	1.34	1.03	182-009-213R531
15	Male	182-15ME-ND	2.30	1.50	1.15	182-015-113R531
	Female	182-15FE-ND	2.44	1.59	1.22	182-015-213R531
25	Male	182-25ME-ND	2.85	1.86	1.42	182-025-113R531
	Female	182-25FE-ND	2.92	1.90	1.46	182-025-213R531
37	Male	182-37ME-ND	3.39	2.32	1.85	182-037-113R531
	Female	182-37FE-ND	3.54	2.43	1.93	182-037-213R531
Fork Board Locks in Front Hole and 4-40 Hex Standoff						
Nickel Shell						
9	Female	182-109FE-ND	2.50	1.63	1.25	182-009-213R561
25	Female	182-125FE-ND	3.00	2.06	1.64	182-025-213R561

183 Economy Series (.590" Footprint)

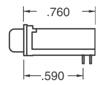

Materials: • **Shell:** Steel, tin plating • **Shell-RoHS Compliant:** Steel, nickel plating • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Stamped Contacts:** Brass • **Plating:** Gold flash on entire contact

Conn. Size	Dimensions (Inch)		
	A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

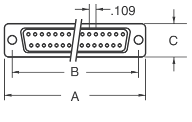

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Inside Ground Straps and .120" Diameter Hole						
Metal Shell						
15	Male	183-715M-ND	1.84	1.24	1.18	183-015-112-161
37	Female	183-737F-ND	2.97	2.28	2.18	183-037-212-161
Nickel Shell — RoHS Compliant						
9	Male	183-709ME-ND	3.75	2.57	2.05	183-009-113R161
	Female	183-709FE-ND	3.99	2.73	2.18	183-009-213R161
15	Male	183-715ME-ND	4.44	3.04	2.42	183-015-113R161
	Female	183-715FE-ND	4.71	3.23	2.57	183-015-213R161
25	Male	183-725ME-ND	5.37	3.68	2.93	183-025-113R161
	Female	183-725FE-ND	5.70	3.91	3.11	183-025-213R161
37	Male	183-737ME-ND	6.72	4.92	4.07	183-037-113R161
	Female	183-737FE-ND	7.12	5.21	4.32	183-037-213R161
Inside Ground Straps and 4-40 Flush Insert						
Metal Shell						
37	Female	183-937F-ND	2.97	2.28	2.18	183-037-212-171
Nickel Shell — RoHS Compliant						
9	Male	183-909ME-ND	3.75	2.57	2.05	183-009-113R171
	Female	183-909FE-ND	3.99	2.73	2.18	183-009-213R171
15	Male	183-915ME-ND	4.44	3.04	2.42	183-015-113R171
	Female	183-915FE-ND	4.71	3.23	2.57	183-015-213R171
25	Male	183-925ME-ND	5.37	3.68	2.93	183-025-113R171
	Female	183-925FE-ND	5.70	3.91	3.11	183-025-213R171
37	Male	183-937ME-ND	6.72	4.92	4.07	183-037-113R171
	Female	183-937FE-ND	7.10	5.19	4.30	183-037-213R171
Inside Ground Straps and 4-40 Hex Standoff						
Nickel Shell — RoHS Compliant						
9	Male	183-809ME-ND	4.11	2.82	2.24	183-009-113R181
	Female	183-809FE-ND	4.32	2.96	2.36	183-009-213R181
15	Male	183-815ME-ND	4.83	3.31	2.63	183-015-113R181
	Female	183-815FE-ND	5.10	3.49	2.78	183-015-213R181
25	Male	183-825ME-ND	5.76	3.95	3.14	183-025-113R181
	Female	183-825FE-ND	6.06	4.15	3.30	183-025-213R181
37	Male	183-837ME-ND	7.02	5.14	4.26	183-037-113R181
	Female	183-837FE-ND	7.45	5.45	4.52	183-037-213R181
Fork Board Locks in Front Hole and 4-40 Flush Insert						
Nickel Shell — RoHS Compliant						
9	Male	183-09ME-ND	4.11	2.82	2.24	183-009-113R531
	Female	183-09FE-ND	3.99	2.73	2.18	183-009-213R531
15	Male	183-15ME-ND	4.44	3.04	2.42	183-015-113R531
	Female	183-15FE-ND	4.71	3.23	2.57	183-015-213R531
25	Male	183-25ME-ND	5.37	3.68	2.93	183-025-113R531
	Female	183-25FE-ND	5.70	3.91	3.11	183-025-213R531
37	Male	183-37ME-ND	6.72	4.92	4.07	183-037-113R531
	Female	183-37FE-ND	7.10	5.19	4.30	183-037-213R531
Fork Board Locks in Rear Hole and 4-40 Hex Standoffs						
Nickel Shell — RoHS Compliant						
9	Male	183-309ME-ND	4.11	2.82	2.24	183-009-113R541
	Female	183-309FE-ND	4.35	2.98	2.37	183-009-213R541
15	Male	183-315ME-ND	4.83	3.31	2.63	183-015-113R541
	Female	183-315FE-ND	4.71	3.23	2.57	183-015-213R541
25	Male	183-325ME-ND	5.76	3.95	3.14	183-025-113R541
	Female	183-325FE-ND	6.06	4.15	3.30	183-025-213R541
37	Male	183-337ME-ND	7.04	5.16	4.27	183-037-113R541
	Female	183-337FE-ND	7.10	5.19	4.30	183-037-213R541
Fork Board Locks in Front Hole and 4-40 Hex Standoffs						
Nickel Shell — RoHS Compliant						
9	Male	183-209ME-ND	4.11	2.82	2.24	183-009-113R561
	Female	183-209FE-ND	4.35	2.98	2.37	183-009-213R561
15	Male	183-215ME-ND	4.83	3.31	2.63	183-015-113R561
	Female	183-215FE-ND	4.71	3.23	2.57	183-015-213R561
25	Male	183-225ME-ND	5.76	3.95	3.14	183-025-113R561
	Female	183-225FE-ND	6.06	4.15	3.30	183-025-213R561
37	Male	183-237ME-ND	7.04	5.16	4.27	183-037-113R561
	Female	183-237FE-ND	7.10	5.19	4.30	183-037-213R561
Fork Board Locks in Rear Hole and 4-40 Flush Inserts						
Nickel Shell — RoHS Compliant						
9	Male	183-109ME-ND	3.75	2.57	2.05	183-009-113R571
	Female	183-109FE-ND	3.99	2.73	2.18	183-009-213R571
15	Male	183-115ME-ND	4.44	3.04	2.42	183-015-113R571
	Female	183-115FE-ND	4.44	3.04	2.42	183-015-213R571
25	Male	183-125ME-ND	5.40	3.70	2.94	183-025-113R571
	Female	183-125FE-ND	5.70	3.91	3.11	183-025-213R571
37	Male	183-137ME-ND	6.72	4.92	4.07	183-037-113R571
	Female	183-137FE-ND	7.10	5.19	4.30	183-037-213R571

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

SEAL-D™

RoHS COMPLIANT

NEW! IP67 SEAL-D™ D-Sub Connectors

772-E, 773-E, 774-E, 780-M, and 781-M Series

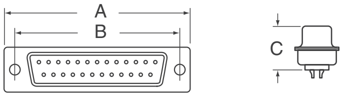

Connector Size	Dimensions – Inch A	B	C
772-E, 773-E, and 774-E Series			
9	1.213	.984	.456
15	1.541	1.312	.456
25	2.087	1.852	.456
780-M and 781-M Series			
15	1.213	.984	.456
26	1.541	1.312	.456
44	2.088	1.852	.456

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
772-E Series						
9	Male	NOR1000-ND	7.42	5.43	4.50	772-E09-103R001
15	Male	NOR1001-ND	8.94	6.54	5.42	772-E15-103R001
25	Male	NOR1002-ND	11.62	8.50	7.04	772-E25-103R001
9	Female	NOR1003-ND	9.42	6.89	5.71	772-E09-203R001
15	Female	NOR1004-ND	11.79	8.63	7.15	772-E15-203R001
25	Female	NOR1005-ND	14.30	10.95	9.27	772-E25-203R001
9	Male	NOR1006-ND	7.25	5.31	4.40	772-E09-113R001
15	Male	NOR1007-ND	8.66	6.34	5.25	772-E15-113R001
25	Male	NOR1008-ND	11.19	8.19	6.78	772-E25-113R001
9	Female	NOR1009-ND	9.14	6.69	5.54	772-E09-213R001
15	Female	NOR1010-ND	11.26	8.24	6.83	772-E15-213R001
25	Female	NOR1011-ND	13.60	10.41	8.82	772-E25-213R001
773-E Series — Right Angle						
9	Male	NOR1012-ND	7.93	5.80	4.81	773-E09-113R001
15	Male	NOR1013-ND	9.17	6.71	5.56	773-E15-113R001
25	Male	NOR1014-ND	12.15	8.89	7.36	773-E25-113R001
774-E Series — Right Angle						
9	Male	NOR1015-ND	7.93	5.80	4.81	774-E09-113R001
15	Male	NOR1016-ND	9.17	6.71	5.56	774-E15-113R001
25	Male	NOR1017-ND	12.15	8.89	7.36	774-E25-113R001
780-M Series						
15	Male	NOR1018-ND	8.26	6.04	5.01	780-M15-103L001
26	Male	NOR1019-ND	11.21	8.21	6.80	780-M26-103L001
44	Male	NOR1020-ND	13.87	10.62	8.99	780-M44-103L001
15	Female	NOR1021-ND	11.89	8.70	7.21	780-M15-203L001
26	Female	NOR1022-ND	13.87	10.62	8.99	780-M26-203L001
44	Female	NOR1023-ND	19.95	15.27	12.93	780-M44-203L001
15	Male	NOR1024-ND	8.99	6.58	5.45	780-M15-113R001
26	Male	NOR1025-ND	11.39	8.33	6.91	780-M26-113R001
44	Male	NOR1026-ND	13.55	10.38	8.79	780-M44-113R001
15	Female	NOR1027-ND	11.34	8.30	6.87	780-M15-213R001
26	Female	NOR1028-ND	13.08	10.02	8.48	780-M26-213R001
44	Female	NOR1029-ND	18.50	14.17	12.00	780-M44-213R001
781-M Series — Right Angle						
15	Male	NOR1030-ND	11.41	8.35	6.92	781-M15-113R141
26	Male	NOR1031-ND	14.16	10.85	9.18	781-M26-113R141
44	Male	NOR1032-ND	19.40	14.86	12.58	781-M44-113R141
SF67 Series						
Removable Sealing Flange						
9	—	NOR1033-ND	1.27	.79	.58	SF6709
15	—	NOR1034-ND	1.64	1.01	.74	SF6715
25	—	NOR1035-ND	1.84	1.20	.92	SF6725
Permanent Sealing Flange						
9	—	NOR1036-ND	1.35	.84	.61	SFP6709
15	—	NOR1037-ND	1.72	1.07	.78	SFP6715
25	—	NOR1038-ND	1.95	1.27	.97	SFP6725
IP67 Mounting Hardware Kit						
—	—	NOR1039-ND	1.96	1.22	.89	160-067-010R033

Dual Port Right Angle D-Sub Connectors

178, 179 and 189 Series

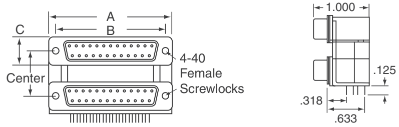

Materials: • **Shell:** Steel, zinc with tin plating • **Shell – RoHS Compliant:** Steel, nickel plating • **Contacts:** Gold flash over brass plating • **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated, black

Connector Size	Dimensions – Inch A	B	C
9	1.204	0.984	0.494
15	1.535	1.312	0.494
25	2.078	1.850	0.494
37	2.724	2.500	0.494

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
178 Series – .750" Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	178-409MME-ND	6.97	5.10	4.23	178-009-613R491
25/25	M/M	178-425MME-ND	10.18	7.45	6.17	178-025-613R491
37/37	M/M	178-437MME-ND	13.12	10.05	8.51	178-037-613R491
9/9	M/F	178-09MFE-ND	6.97	5.10	4.23	178-009-413R491
25/25	M/F	178-25MFE-ND	6.11	5.49	5.24	178-025-413R491
37/37	M/F	178-37MFE-ND	8.13	7.79	7.44	178-037-413R491
9/9	F/F	178-209FFE-ND	6.97	5.10	4.23	178-009-513R491
15/15	F/F	178-215FFE-ND	8.79	6.43	5.33	178-015-513R491
25/25	F/F	178-225FFE-ND	10.18	7.45	6.17	178-025-513R491
37/37	F/F	178-237FFE-ND	8.13	7.79	7.44	178-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	178-509MME-ND	6.97	5.10	4.23	178-009-613R691
15/15	M/M	178-515MME-ND	5.27	4.74	4.53	178-015-613R691
25/25	M/M	178-525MME-ND	10.18	7.45	6.17	178-025-613R691
15/15	M/F	178-115MFE-ND	5.27	4.74	4.53	178-015-413R691
37/37	M/F	178-137MFE-ND	13.12	10.05	8.51	178-037-413R691
9/9	F/F	178-309FFE-ND	6.97	5.10	4.23	178-009-513R691
25/25	F/F	178-325FFE-ND	10.18	7.45	6.17	178-025-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1109MME-ND	6.97	5.10	4.23	178-009-613R571
15/15	M/M	1115MME-ND	8.79	6.43	5.33	178-015-613R571
25/25	M/M	1125MME-ND	10.18	7.45	6.17	178-025-613R571
37/37	M/M	1137MME-ND	13.12	10.05	8.51	178-037-613R571
9/9	M/F	1109MFE-ND	6.97	5.10	4.23	178-009-413R571
15/15	M/F	1115MFE-ND	8.79	6.43	5.33	178-015-413R571
25/25	M/F	1125MFE-ND	10.18	7.45	6.17	178-025-413R571
37/37	M/F	1137MFE-ND	13.12	10.05	8.51	178-037-413R571
9/9	F/F	1109FFE-ND	6.97	5.10	4.23	178-009-513R571
15/15	F/F	1115FFE-ND	8.79	6.43	5.33	178-015-513R571
25/25	F/F	1125FFE-ND	10.18	7.45	6.17	178-025-513R571
37/37	F/F	1137FFE-ND	13.12	10.05	8.51	178-037-513R571
9/9	F/M	1109FME-ND	6.97	5.10	4.23	178-009-313R571
15/15	F/M	1115FME-ND	8.79	6.43	5.33	178-015-313R571
25/25	F/M	1125FME-ND	10.18	7.45	6.17	178-025-313R571
37/37	F/M	1137FME-ND	13.12	10.05	8.51	178-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
37/37	M/M	1137MM-ND	7.13	6.41	6.13	178-037-612-571
37/37	F/F	1137FF-ND	7.70	6.92	6.61	178-037-512-571
179 Series – .900" Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	179-409MME-ND	4.18	3.76	3.59	179-009-613R491
9/9	M/F	179-09MFE-ND	4.18	3.76	3.59	179-009-413R491
15/15	M/F	179-15MFE-ND	5.27	4.74	4.53	179-015-413R491
25/25	M/F	179-25MFE-ND	6.11	5.49	5.24	179-025-413R491
37/37	M/F	179-37MFE-ND	8.13	7.79	7.27	179-037-413R491
9/9	F/F	179-209FFE-ND	6.97	5.10	4.23	179-009-513R491
15/15	F/F	179-215FFE-ND	5.27	4.74	4.53	179-015-513R491
25/25	F/F	179-225FFE-ND	6.11	5.49	5.24	179-025-513R491
37/37	F/F	179-237FFE-ND	8.13	7.79	7.27	179-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	179-509MME-ND	4.18	3.76	3.59	179-009-613R691
15/15	M/M	179-515MME-ND	5.27	4.74	4.53	179-015-613R691
25/25	M/M	179-525MME-ND	6.11	5.49	5.24	179-025-613R691
15/15	M/F	179-115MFE-ND	5.27	4.74	4.53	179-015-413R691
25/25	M/F	179-125MFE-ND	6.11	5.49	5.24	179-025-413R691
25/25	F/F	179-325FFE-ND	6.11	5.49	5.24	179-025-513R691
37/37	F/F	179-337FFE-ND	8.13	7.79	7.27	179-037-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1209MME-ND	6.97	5.10	4.23	179-009-613R571
15/15	M/M	1215MME-ND	8.79	6.43	5.33	179-015-613R571
25/25	M/M	1225MME-ND	10.18	7.45	6.17	179-025-613R571
37/37	M/M	1237MME-ND	13.12	10.05	8.51	179-037-613R571
9/9	M/F	1209MFE-ND	6.97	5.10	4.23	179-009-413R571
15/15	M/F	1215MFE-ND	8.79	6.43	5.33	179-015-413R571
25/25	M/F	1225MFE-ND	10.18	7.45	6.17	179-025-413R571
37/37	M/F	1237MFE-ND	13.12	10.05	8.51	179-037-413R571
25/25	F/F	1225FFE-ND	10.18	7.45	6.17	179-025-513R571
37/37	F/F	1237FFE-ND	13.12	10.05	8.51	179-037-513R571
9/9	F/M	1209FME-ND	6.97	5.10	4.23	179-009-313R571
15/15	F/M	1215FME-ND	8.79	6.43	5.33	179-015-313R571
25/25	F/M	1225FME-ND	10.18	7.45	6.17	179-025-313R571
37/37	F/M	1237FME-ND	13.12	10.05	8.51	179-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
15/15	M/M	1215MM-ND	4.38	3.94	3.77	179-015-612-571
25/25	M/M	1225MM-ND	4.70	4.22	4.04	179-025-612-571
37/37	M/M	1237MM-ND	7.13	6.41	6.13	179-037-612-571
25/25	F/F	1225FF-ND	4.70	4.22	4.04	179-025-512-571
37/37	F/M	1237FM-ND	7.13	6.41	6.13	179-037-312-571
189 Series – .625" Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	189-409MME-ND	6.97	5.10	4.23	189-009-613R491
15/15	M/M	189-415MME-ND	5.27	4.74	4.53	189-015-613R491
25/25	M/M	189-425MME-ND	6.11	5.49	5.24	189-025-613R491
37/37	M/M	189-437MME-ND	8.13	7.79	7.44	189-037-613R491
9/9	M/F	189-09MFE-ND	6.97	5.10	4.23	189-009-413R491
15/15	M/F	189-15MFE-ND	5.27	4.74	4.53	189-015-413R491
25/25	M/F	189-25MFE-ND	6.11	5.49	5.24	189-025-413R491
9/9	F/F	189-209FFE-ND	6.97	5.10	4.23	189-009-513R491
15/15	F/F	189-215FFE-ND	8.79	6.43	5.33	189-015-513R491
25/25	F/F	189-225FFE-ND	6.11	5.49	5.24	189-025-513R491
37/37	F/F	189-237FFE-ND	13.12	10.05	8.51	189-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	189-509MME-ND	6.97	5.10	4.23	189-009-613R691
15/15	M/M	189-515MME-ND	5.27	4.74	4.53	189-015-613R691
25/25	M/M	189-525MME-ND	6.11	5.49	5.24	189-025-613R691
37/37	M/M	189-537MME-ND	8.13	7.79	7.44	189-037-613R691
9/9	M/F	189-109MFE-ND	6.97	5.10	4.23	189-009-413R691
15/15	M/F	189-115MFE-ND	5.27	4.74	4.53	189-015-413R691
9/9	F/F	189-309FFE-ND	6.97	5.10	4.23	189-009-513R691
25/25	F/F	189-325FFE-ND	6.11	5.49	5.24	189-025-513R691
37/37	F/F	189-337FFE-ND	13.12	10.05	8.51	189-037-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1009MME-ND	6.97	5.10	4.23	189-009-613R571
15/15	M/M	1015MME-ND	8.79	6.43	5.33	189-015-613R571
25/25	M/M	1025MME-ND	10.18	7.45	6.17	189-025-613R571
37/37	M/M	1037MME-ND	13.12	10.05	8.51	189-037-613R571
9/9	M/F	1009MFE-ND	6.97	5.10	4.23	189-009-413R571
15/15	M/F	1015MFE-ND	8.79	6.43	5.33	189-015-413R571
25/25	M/F	1025MFE-ND	10.18	7.45	6.17	189-025-413R571
37/37	M/F	1037MFE-ND	13.12	10.05	8.51	189-037-413R571
9/9	F/F	1009FFE-ND	6.97	5.10	4.23	189-009-513R571
15/15	F/F	1015FFE-ND	8.79	6.43	5.33	189-015-513R571
25/25	F/F	1025FFE-ND	10.18	7.45	6.17	189-025-513R571
37/37	F/F	1037FFE-ND	13.12	10.05	8.51	189-037-513R571
9/9	F/M	1009FME-ND	6.97	5.10	4.23	189-009-313R571
15/15	F/M	1015FME-ND	8.79	6.43	5.33	189-015-313R571
25/25	F/M	1025FME-ND	10.18	7.45	6.17	189-025-313R571
37/37	F/M	1037FME-ND	13.12	10.05	8.51	189-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
37/37	M/M	1037MM-ND	7.13	6.41	6.13	189-037-612-571
37/37	F/F	1037FF-ND	7.13	6.41	6.13	189-037-512-571
37/37	F/M	1037FM-ND	7.13	6.41	6.13	189-037-312-571

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

Surface Mount D-Sub Connectors

190 and 200 Series

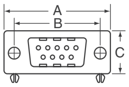

Materials: • Shell: Steel, zinc or tin plating • **Insulator:** Nylon 6T, UL 94V-0 rated • **Contacts:** Phosphor bronze • **Plating:** Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions – Inch		
	A	B	C
9	1.183	0.984	0.494
15	1.183	0.984	0.494
25	2.089	1.852	0.494

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Series 190 – Right Angle (.120" Diameter Hole and 4-40 UNC Threaded Insert)						
9	Male	190-09MA-ND	3.17	2.06	1.58	190-009-163R001
	Female	190-09FA-ND	3.17	2.06	1.58	190-009-263R001
25	Male	190-25MA-ND	4.56	3.13	2.49	190-025-163R001
	Female	190-25FA-ND	4.56	3.13	2.49	190-025-263R001
Series 200 – High Density Right Angle (.120" Diameter Hole and 4-40 UNC Threaded Insert)						
15	Female	200-15FA-ND	3.75	2.57	2.05	200-015-263R001

Press Fit D-Sub Connectors

191 Series

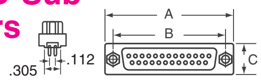

Materials: • Shell: Steel, nickel or tin plated • Insulator: Nylon, UL 94V-0 rated • **Contacts:** Male - Brass; Female - Phosphor bronze • Plating: Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions – Inch		
	A	B	C
9	1.214	.984	.494
15	1.545	1.312	.494
25	2.088	1.852	.494
37	2.730	2.500	.494

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
.125" Fastening Hole Size						
9	Male	191-09M-ND	2.20	1.48	1.42	191-009-122-001
15	Male	191-15M-ND	2.61	2.01	1.92	191-015-122-001
	Female	191-15F-ND	2.85	2.19	2.10	191-015-222-001
25	Female	191-25F-ND	3.92	3.01	2.88	191-025-222-001
37	Female	191-37F-ND	4.20	3.77	3.61	191-037-222-001
.125" Fastening Hole Size — RoHS Compliant						
9	Male	191-09MA-ND	3.39	2.32	1.85	191-009-123R001
	Female	191-09FA-ND	3.48	2.39	1.90	191-009-223R001
15	Male	191-15MA-ND	4.68	3.21	2.55	191-015-123R001
	Female	191-15FA-ND	5.10	3.49	2.78	191-015-223R001
25	Male	191-25MA-ND	6.48	4.44	3.53	191-025-123R001
	Female	191-25FA-ND	6.99	4.79	3.81	191-025-223R001
37	Male	191-37MA-ND	6.87	5.03	4.17	191-037-123R001
	Female	191-37FA-ND	7.52	5.51	4.56	191-037-223R001

High Density over (2)PS/2

999 Series

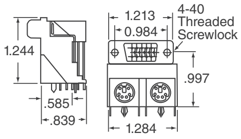

Materials:
- **Shell:** Steel, nickel plated
- **Insulator:** PBT UL 94V-0 rated
- **Contacts:** Brass
- **Platings:** Gold flash contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
15	Female	999-H15FA-ND	8.59	6.28	5.21	999-H15-PS2L571

Crimp and Poke D-Sub Connectors

170 Series

Features: • Available in 5 industry sizes/positions • Low cost commercial version of military standard • Tin or Yellow Chromate shells • Allows for easy loading of only the positions required using Crimp and Snap-in contacts • Tin-plated connector shells have indents to provide grounding and additional retention • Nylon insulator has a minimum contact retention of 10 pounds • Contact current rating: 5 amps

Materials: • **Shell:** Steel, zinc-plated with yellow chromate or bright tin plating • **Shell – RoHS Compliant:** Steel, nickel plating • **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated

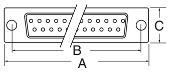

Connector Size	Dimensions – Inch		
	A	B	C
9	1.213	0.984	0.496
15	1.541	1.312	0.496
25	2.087	1.852	0.496
37	2.732	2.500	0.496
50	2.638	2.406	0.602

Uses Snap-In Contacts (sold separately)

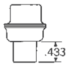

Snap-In Contacts for Crimp D-Sub Connectors

Pin

Socket

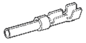

Features: • Low cost and high performance stamped contacts features insulation support for increased holding power • **Contact Range:** 24 ~ 28 AWG • Contacts are commercial quality stamped and are compatible with industry tooling
Material: • **Male Pins:** Brass • **Female Pins:** Phosphor bronze • **Male Pins – RoHS Compliant:** Brass • **Female Pins – RoHS Compliant:** Brass

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Crimp D-Sub Standard						
Tin Shell						
50	Female	750F-ND	1.67	1.13	1.08	170-050-272-000
Nickel Shell — RoHS Compliant						
9	Male	709ME-ND	1.10	.69	.50	170-009-173L000
	Female	709FE-ND	1.19	.74	.54	170-009-273L000
15	Male	715ME-ND	1.27	.79	.58	170-015-173L000
	Female	715FE-ND	1.39	.86	.63	170-015-273L000
25	Male	725ME-ND	1.35	.84	.61	170-025-173L000
	Female	725FE-ND	1.43	.89	.65	170-025-273L000
37	Male	737ME-ND	2.23	1.45	1.11	170-037-173L000
	Female	737FE-ND	2.30	1.50	1.15	170-037-273L000
50	Male	750ME-ND	5.85	4.01	3.19	170-050-173L000
	Female	750FE-ND	5.85	4.01	3.19	170-050-273L000
Yellow Chromate						
15	Male	1715MA-ND	.74	.46	.42	170-015-171L000
25	Male	1725ME-ND	1.28	.79	.71	170-025-171L000
	Female	1725FA-ND	.83	.52	.47	170-025-271L000
37	Female	1737F-ND	1.45	.97	.93	170-037-271-000
50	Male	1750MA-ND	3.43	2.64	2.52	170-050-171L000
Crimp with .065" Clinch Nuts, Board Side						
Tin Shell						
37	Male	5737M-ND	1.93	1.30	1.25	170-037-172-010
	Female	5737F-ND	1.96	1.32	1.26	170-037-272-010
50	Female	5750F-ND	2.04	1.57	1.50	170-050-272-010
Nickel Shell — RoHS Compliant						
9	Male	5709ME-ND	2.09	1.36	1.04	170-009-173L010
	Female	5709FE-ND	2.12	1.38	1.06	170-009-273L010
15	Male	5715ME-ND	2.26	1.47	1.13	170-015-173L010
	Female	5715FE-ND	2.37	1.54	1.18	170-015-273L010
25	Male	5725ME-ND	2.33	1.52	1.16	170-025-173L010
	Female	5725FE-ND	2.40	1.56	1.20	170-025-273L010
37	Male	5737ME-ND	3.00	2.06	1.64	170-037-173L010
	Female	5737FE-ND	3.00	2.06	1.64	170-037-273L010
50	Male	5750ME-ND	6.87	4.71	3.74	170-050-173L010
	Female	5750FE-ND	6.87	4.71	3.74	170-050-273L010
Yellow Chromate						
15	Female	2715FA-ND	2.11	1.42	1.36	170-015-271L010
25	Female	2725FA-ND	1.40	.94	.90	170-025-271L010
37	Male	2737M-ND	2.04	1.38	1.32	170-037-171-010
	Female	2737FA-ND	2.03	1.36	1.31	170-037-271L010
50	Female	2750F-ND	2.04	1.38	1.32	170-050-271-010
Crimp with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Female	6715F-ND	1.35	.91	.87	170-015-272-020
37	Male	6737M-ND	1.93	1.30	1.25	170-037-172-020
	Female	6737F-ND	1.96	1.32	1.26	170-037-272-020
50	Male	6750M-ND	2.29	1.54	1.47	170-050-172-020
Nickel Shell — RoHS Compliant						
9	Male	6709ME-ND	2.09	1.36	1.04	170-009-173L020
	Female	6709FE-ND	2.12	1.38	1.06	170-009-273L020
15	Male	6715ME-ND	2.26	1.47	1.13	170-015-173L020
	Female	6715FE-ND	2.37	1.54	1.18	170-015-273L020
25	Male	6725ME-ND	2.33	1.52	1.16	170-025-173L020
	Female	6725FE-ND	2.40	1.56	1.20	170-025-273L020
37	Male	6737ME-ND	3.00	2.06	1.64	170-037-173L020
	Female	6737FE-ND	3.00	2.06	1.64	170-037-273L020
50	Male	6750ME-ND	6.87	4.71	3.74	170-050-173L020
	Female	6750FE-ND	6.87	4.71	3.74	170-050-273L020
Yellow Chromate						
15	Male	3715M-ND	1.69	1.14	1.09	170-015-171-020
	Male	3715MA-ND	1.32	.89	.85	170-015-171L020
25	Male	3725MA-ND	1.35	.91	.87	170-025-171L020
50	Male	3750MA-ND	4.03	3.09	2.96	170-050-171L020
	Female	3750F-ND	2.04	1.38	1.32	170-050-271-020
Crimp with .250" Clinch Nuts, Mating Side						
Tin Shell						
37	Male	7737M-ND	1.93	1.30	1.25	170-037-172-030
50	Female	7750F-ND	2.04	1.57	1.50	170-050-272-030
Nickel Shell — RoHS Compliant						
9	Male	7709ME-ND	2.09	1.36	1.04	170-009-173L030
	Female	7709FE-ND	2.12	1.38	1.06	170-009-273L030
15	Male	7715ME-ND	2.26	1.47	1.13	170-015-173L030
	Female	7715FE-ND	2.37	1.54	1.18	170-015-273L030
25	Male	7725ME-ND	2.33	1.52	1.16	170-025-173L030
	Female	7725FE-ND	2.40	1.56	1.20	170-025-273L030
37	Male	7737ME-ND	3.00	2.06	1.64	170-037-173L030
	Female	7737FE-ND	3.00	2.06	1.64	170-037-273L030
50	Male	7750ME-ND	6.87	4.71	3.74	170-050-173L030
	Female	7750FE-ND	6.87	4.71	3.74	170-050-273L030
Yellow Chromate						
15	Female	4715F-ND	1.67	1.13	1.08	170-015-271-030
	Female	4715FA-ND	1.38	.93	.89	170-015-271L030
25	Female	4725FA-ND	1.40	.94	.90	170-025-271L030
37	Male	4737MA-ND	1.38	.93	.89	170-037-171L030
	Female	4737FA-ND	2.14	1.44	1.38	170-037-271L030
	Female	4737F-ND	2.14	1.44	1.38	170-037-271-030
50	Female	4750FA-ND	4.03	3.09	2.96	170-050-271L030
Stamped Contacts 24 ~ 28 AWG — RoHS Compliant						
—	Socket	82SECT-ND†	—	.31	.20	170-002-170L002
		82SETR-ND‡	1170.00/10,000			170-002-170L002
—	Socket	82SSFECT-NDΔ†	—	.27	.18	170-002-170L001
		82SSFETR-NDΔ‡	1020.00/10,000			170-002-170L001
—	Socket	85SE-ND	—	.21	.14	170-102-170L001
		86SE-ND	—	.28	.19	170-102-170L002
—	Pin	82PECT-ND†	—	.23	.15	170-001-170L002
		82PETR-ND‡	890.00/10,000			170-001-170L002
—	Pin	82PSFECT-NDΔ†	—	.20	.13	170-001-170L001
		82PSFETR-NDΔ‡	730.00/10,000			170-001-170L001
—	Pin	83PE-ND	—	.18	.12	170-101-170L001
		84PE-ND	—	.25	.16	170-101-170L002
Machined Contacts 20 ~ 26 AWG — RoHS Compliant						
—	Socket	88SE-ND	—	.45	.31	170-202-170L002
		89SE-ND	—	.84	.61	170-202-170L003
—	Pin	87PE-ND	—	.33	.23	170-201-170L002
Crimp – Tin — RoHS Compliant						
9	Male	709MER-ND	1.10	.69	.50	170-009-172L000
	Female	709FER-ND	1.19	.74	.54	170-009-272L000
15	Male	715MER-ND	1.27	.79	.58	170-015-172L000
	Female	715FER-ND	1.39	.86	.63	170-015-272L000
25	Male	725MER-ND	1.35	.84	.61	170-025-172L000
	Female	725FER-ND	1.43	.89	.65	170-025-272L000
37	Male	737MER-ND	2.23	1.45	1.11	170-037-172L000
	Female	737FER-ND	2.30	1.50	1.15	170-037-272L000
50	Male	750MER-ND	5.85	4.01	3.19	170-050-172L000
	Female	750FER-ND	5.85	4.01	3.19	170-050-272L000
Crimp – Tin with .098" Clinch Nut, Board Side — RoHS Compliant						
9	Male	5709MER-ND	2.09	1.36	1.04	170-009-172L010
	Female	5709FER-ND	2.12	1.38	1.06	170-009-272L010
15	Male	5715MER-ND	2.26	1.47	1.13	170-015-172L010
	Female	5715FER-ND	2.37	1.54	1.18	170-015-272L010
25	Male	5725MER-ND	2.33	1.52	1.16	170-025-172L010
	Female	5725FER-ND	2.40	1.56	1.20	170-025-272L010
37	Male	5737MER-ND	3.00	2.06	1.64	170-037-172L010
	Female	5737FER-ND	3.00	2.06	1.64	170-037-272L010
50	Male	5750MER-ND	6.87	4.71	3.74	170-050-172L010
	Female	5750FER-ND	6.87	4.71	3.74	170-050-272L010
Crimp – Tin with .250 Clinch Nut, Board Side — RoHS Compliant						
9	Male	6709MER-ND	2.09	1.36	1.04	170-009-172L020
	Female	6709FER-ND	2.12	1.38	1.06	170-009-272L020
15	Male	6715MER-ND	2.26	1.47	1.13	170-015-172L020
	Female	6715FER-ND	2.37	1.54	1.18	170-015-272L020
25	Male	6725MER-ND	2.33	1.52	1.16	170-025-172L020
	Female	6725FER-ND	2.40	1.56	1.20	170-025-272L020
37	Male	6737MER-ND	3.00	2.06	1.64	170-037-172L020
	Female	6737FER-ND	3.00	2.06	1.64	170-037-272L020
50	Male	6750MER-ND	6.87	4.71	3.74	170-050-172L020
	Female	6750FER-ND	6.87	4.71	3.74	170-050-272L020
Crimp – Tin with .250 Clinch Nut, Mating Side — RoHS Compliant						
9	Male	7709MER-ND	2.09	1.36	1.04	170-009-172L030
	Female	7709FER-ND	2.12	1.38	1.06	170-009-272L030
15	Male	7715MER-ND	2.26	1.47	1.13	170-015-172L030
25	Male	7725MER-ND	2.33	1.52	1.16	170-025-172L030
	Female	7725FER-ND	2.40	1.56	1.20	170-025-272L030
37	Male	7737MER-ND	3.00	2.06	1.64	170-037-172L030
	Female	7737FER-ND	3.00	2.06	1.64	170-037-272L030
50	Male	7750MER-ND	6.87	4.71	3.74	170-050-172L030
	Female	7750FER-ND	6.87	4.71	3.74	170-050-272L030

† Cut Tape ‡ Tape and Reel
Δ Pins and Sockets are selectively gold plated

Description	Digi-Key Part No.	Price Each	NorComp Part No.
Tools			
Insertion/Removal Tool	T1010-ND	7.26	170-901-170-000
Hand Crimp Tool For Screw Machined Contacts	T1000M-ND	584.49	170-702-170-000
Hand Crimping Tool For Stamped Contacts	T1000S-ND	324.97	170-701-170-000

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

D-Sub Connectors

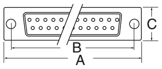

Conn. Size	Dimension (Inch)		
	A	B	C
9	1.213	0.984	0.496
15	1.541	1.312	0.496
25	2.087	1.852	0.496
37	2.728	2.500	0.496
50	2.638	2.406	0.602

Features: • Available in 5 industry sizes/positions • Non-removable contacts • Tin or Yellow Chromate shells available • Tin shells have indents to provide grounding and additional retention • Screw machine contacts offer high reliability **Materials:** • **Shell:** Steel, zinc plated with yellow chromate, bright tin over nickel • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-O • **Contacts:** Brass male pins; Phosphor bronze female pins • **Plating:** Gold flash on entire contact

Original D-Subminiature

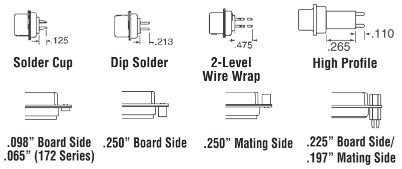

Solder Cup **Dip Solder** **2-Level Wire Wrap** **High Profile**

.098" Board Side .065" (172 Series) **.250" Board Side** **.250" Mating Side** **.225" Board Side/ .197" Mating Side**

Clinch Nut Hardware

Clinch Nuts: Brass, clear zinc plating with 4-40 threads

Hole Patterns

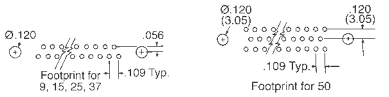

Footprint for 9, 15, 25, 37

Footprint for 50

Series 171 – Stamped Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup — RoHS Compliant						
Tin Shell						
9	Male	209MER-ND	1.02	.64	.47	171-009-102L001
	Female	209FER-ND	1.19	.74	.54	171-009-202L001
15	Male	215MER-ND	1.55	.96	.71	171-015-102L001
	Female	215FER-ND	1.92	1.19	.87	171-015-202L001
25	Male	225MER-ND	1.72	1.07	.78	171-025-102L001
	Female	225FER-ND	1.72	1.07	.78	171-025-202L001
37	Male	237MER-ND	2.82	1.83	1.41	171-037-102L001
	Female	237FER-ND	3.31	2.15	1.65	171-037-202L001
50	Male	250MER-ND	4.83	3.31	2.63	171-050-102L001
	Female	250FER-ND	5.25	3.60	2.86	171-050-202L001
Nickel Shell						
9	Male	209ME-ND	1.02	.64	.47	171-009-103L001
	Female	209FE-ND	1.19	.74	.54	171-009-203L001
15	Male	215ME-ND	1.55	.96	.71	171-015-103L001
	Female	215FE-ND	1.92	1.19	.87	171-015-203L001
25	Male	225ME-ND	1.72	1.07	.78	171-025-103L001
	Female	225FE-ND	1.74	1.13	.87	171-025-203L001
37	Male	237ME-ND	2.82	1.83	1.41	171-037-103L001
	Female	237FE-ND	3.31	2.15	1.65	171-037-203L001
50	Male	250ME-ND	4.83	3.31	2.63	171-050-103L001
	Female	250FE-ND	5.25	3.60	2.86	171-050-203L001
Solder Cup with .098" Clinch Nuts, Board Side — RoHS Compliant						
Tin Shell						
9	Male	1209MER-ND	2.05	1.34	1.03	171-009-102L011
	Female	1209FER-ND	2.12	1.38	1.06	171-009-202L011
15	Male	1215MER-ND	2.47	1.61	1.23	171-015-102L011
	Female	1215FER-ND	2.82	1.83	1.41	171-015-202L011
25	Male	1225MER-ND	2.64	1.72	1.32	171-025-102L011
	Female	1225FER-ND	2.64	1.72	1.32	171-025-202L011
37	Male	1237MER-ND	3.42	2.34	1.87	171-037-102L011
	Female	1237FER-ND	3.87	2.65	2.11	171-037-202L011
50	Male	1250MER-ND	5.85	4.01	3.19	171-050-102L011
	Female	1250FER-ND	6.27	4.30	3.42	171-050-202L011
Nickel Shell						
9	Male	1209ME-ND	2.05	1.34	1.03	171-009-103L011
	Female	1209FE-ND	2.12	1.38	1.06	171-009-203L011
15	Male	1215ME-ND	2.50	1.63	1.25	171-015-103L011
	Female	1215FE-ND	2.82	1.83	1.41	171-015-203L011
25	Male	1225ME-ND	2.64	1.72	1.32	171-025-103L011
	Female	1225FE-ND	2.92	1.90	1.46	171-025-203L011
37	Male	1237ME-ND	3.42	2.34	1.87	171-037-103L011
	Female	1237FE-ND	3.87	2.65	2.11	171-037-203L011
50	Male	1250ME-ND	5.85	4.01	3.19	171-050-103L011
	Female	1250FE-ND	6.27	4.30	3.42	171-050-203L011
Solder Cup with .250" Clinch Nuts, Board Side — RoHS Compliant						
Tin Shell						
9	Male	2209MER-ND	2.05	1.34	1.03	171-009-102L021
	Female	2209FER-ND	2.12	1.38	1.06	171-009-202L021
15	Male	2215MER-ND	2.50	1.63	1.25	171-015-102L021
	Female	2215FER-ND	2.82	1.83	1.41	171-015-202L021
25	Male	2225MER-ND	2.64	1.72	1.32	171-025-102L021
	Female	2225FER-ND	2.64	1.72	1.32	171-025-202L021
37	Male	2237MER-ND	3.42	2.34	1.87	171-037-102L021
	Female	2237FER-ND	3.87	2.65	2.11	171-037-202L021
50	Male	2250MER-ND	5.85	4.01	3.19	171-050-102L021
	Female	2250FER-ND	6.27	4.30	3.42	171-050-202L021
Nickel Shell						
9	Male	2209ME-ND	2.05	1.34	1.03	171-009-103L021
	Female	2209FE-ND	2.12	1.38	1.06	171-009-203L021
15	Male	2215ME-ND	2.50	1.63	1.25	171-015-103L021
	Female	2215FE-ND	2.82	1.83	1.41	171-015-203L021
25	Male	2225ME-ND	2.64	1.72	1.32	171-025-103L021
	Female	2225FE-ND	2.92	1.90	1.46	171-025-203L021
37	Male	2237ME-ND	3.42	2.34	1.87	171-037-103L021
	Female	2237FE-ND	3.87	2.65	2.11	171-037-203L021
50	Male	2250ME-ND	5.85	4.01	3.19	171-050-103L021
	Female	2250FE-ND	6.27	4.30	3.42	171-050-203L021
Solder Cup with .250" Clinch Nuts, Mating Side						
Tin Shell — RoHS Compliant						
9	Male	3209MER-ND	2.05	1.34	1.03	171-009-102L031
	Female	3209FER-ND	2.12	1.38	1.06	171-009-202L031
15	Male	3215MER-ND	2.47	1.61	1.23	171-015-102L031
	Female	3215FER-ND	2.82	1.83	1.41	171-015-202L031
25	Male	3225MER-ND	2.64	1.72	1.32	171-025-102L031
	Female	3225FER-ND	2.64	1.72	1.32	171-025-202L031
37	Male	3237MER-ND	3.42	2.34	1.87	171-037-102L031
	Female	3237FER-ND	3.87	2.65	2.11	171-037-202L031
50	Male	3250MER-ND	5.85	4.01	3.19	171-050-102L031
	Female	3250FER-ND	6.27	4.30	3.42	171-050-202L031
Nickel Shell — RoHS Compliant						
9	Male	3209ME-ND	2.05	1.34	1.03	171-009-103L031
	Female	3209FE-ND	2.12	1.38	1.06	171-009-203L031
15	Male	3215ME-ND	2.50	1.63	1.25	171-015-103L031
	Female	3215FE-ND	2.82	1.83	1.41	171-015-203L031
25	Male	3225ME-ND	2.64	1.72	1.32	171-025-103L031
	Female	3225FE-ND	2.92	1.90	1.46	171-025-203L031
37	Male	3237ME-ND	3.42	2.34	1.87	171-037-103L031
	Female	3237FE-ND	3.87	2.65	2.11	171-037-203L031
50	Male	3250ME-ND	5.85	4.01	3.19	171-050-103L031
	Female	3250FE-ND	6.27	4.30	3.42	171-050-203L031
Dip Solder — RoHS Compliant						
Nickel Shell						
9	Male	4209ME-ND	1.76	1.09	.80	171-009-113R001
	Female	4209FE-ND	1.74	1.13	.87	171-009-213R001
15	Male	4215ME-ND	2.33	1.52	1.16	171-015-113R001
	Female	4215FE-ND	1.88	1.22	.94	171-015-213R001
25	Male	4225ME-ND	3.24	2.11	1.61	171-025-113R001
	Female	4225FE-ND	2.40	1.56	1.20	171-025-213R001
37	Male	4237ME-ND	4.98	3.41	2.72	171-037-113R001
	Female	4237FE-ND	3.36	2.30	1.83	171-037-213R001
50	Male	4250ME-ND	5.58	3.82	3.04	171-050-113R001
	Female	4250FE-ND	5.37	3.68	2.93	171-050-213R001
Dip Solder with .098" Clinch Nuts, Board Side						
Tin Shell						
50	Female	5250F-ND	3.47	2.66	2.55	171-050-212-011
Nickel Shell — RoHS Compliant						
9	Male	5209ME-ND	2.68	1.74	1.34	171-009-113R011
	Female	5209FE-ND	2.89	1.88	1.44	171-009-213R011
15	Male	5215ME-ND	3.03	2.08	1.65	171-015-113R011
	Female	5215FE-ND	3.06	1.99	1.53	171-015-213R011
25	Male	5225ME-ND	3.81	2.61	2.08	171-025-113R011
	Female	5225FE-ND	3.09	2.12	1.69	171-025-213R011
37	Male	5237ME-ND	6.00	4.11	3.27	171-037-113R011
	Female	5237FE-ND	4.38	3.00	2.39	171-037-213R011
50	Male	5250ME-ND	6.57	4.50	3.58	171-050-113R011
	Female	5250FE-ND	6.39	4.38	3.48	171-050-213R011
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
50	Male	6250M-ND	3.56	2.74	2.62	171-050-112-021
Nickel Shell — RoHS Compliant						
9	Male	6209ME-ND	2.68	1.74	1.34	171-009-113R021
15	Male	6215ME-ND	3.03	2.08	1.65	171-015-113R021
	Female	6215FE-ND	3.06	1.99	1.53	171-015-213R021
25	Male	6225ME-ND	3.81	2.61	2.08	171-025-113R021
	Female	6225FE-ND	3.09	2.12	1.69	171-025-213R021
37	Male	6237ME-ND	6.00	4.11	3.27	171-037-113R021
	Female	6237FE-ND	4.38	3.00	2.39	171-037-213R021
50	Male	6250ME-ND	6.57	4.50	3.58	171-050-113R021
	Female	6250FE-ND	6.39	4.38	3.48	171-050-213R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
50	Male	7250M-ND	3.56	2.74	2.62	171-050-112-031
	Female	7250F-ND	3.47	2.66	2.55	171-050-212-031
Nickel Shell — RoHS Compliant						
9	Male	7209ME-ND	2.68	1.74	1.34	171-009-113R031
	Female	7209FE-ND	2.89	1.88	1.44	171-009-213R031
15	Male	7215ME-ND	3.03	2.08	1.65	171-015-113R031
	Female	7215FE-ND	3.06	1.99	1.53	171-015-213R031
25	Male	7225ME-ND	3.81	2.61	2.08	171-025-113R031
	Female	7225FE-ND	3.09	2.12	1.69	171-025-213R031
37	Male	7237ME-ND	6.00	4.11	3.27	171-037-113R031
	Female	7237FE-ND	4.38	3.00	2.39	171-037-213R031
50	Male	7250ME-ND	6.57	4.50	3.58	171-050-113R031
	Female	7250FE-ND	6.39	4.38	3.48	171-050-213R031
9	Male	9209ME-ND	3.00	2.06	1.64	171-009-113R911
	Female	9209FE-ND	3.18	2.18	1.74	171-009-213R911
15	Male	9215ME-ND	3.69	2.53	2.01	171-015-113R911
	Female	9215FE-ND	3.30	2.26	1.80	171-015-213R911
25	Male	9225ME-ND	4.47	3.06	2.44	171-025-113R911
	Female	9225FE-ND	3.90	2.67	2.13	171-025-213R911
37	Male	9237ME-ND	6.69	4.58	3.65	171-037-113R911
	Female	9237FE-ND	5.07	3.47	2.76	171-037-213R911
50	Male	9250ME-ND	7.26	4.97	3.96	171-050-113R911
	Female	9250FE-ND	7.05	4.83	3.84	171-050-213R911

Series 172 – Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup — RoHS Compliant						
Tin Shell						
9	Male	1109MA-ND	3.27	2.13	1.63	172-009-102R001
	Female	1109FA-ND	3.21	2.20	1.75	172-009-202R001
15	Male	1115MA-ND	3.60	2.47	1.96	172-015-102R001
	Female	1115FA-ND	4.32	2.96	2.36	172-015-202R001
25	Male	1125MA-ND	4.65	3.19	2.54	172-025-102R001
	Female	1125FA-ND	6.36	4.36	3.47	172-025-202R001
37	Male	1137MA-ND	6.24	4.27	3.40	172-037-102R001
	Female	1137FA-ND	7.27	5.32	4.41	172-037-202R001
50	Male	1150MA-ND	9.39	6.88	5.70	172-050-102R001
	Female	1150FA-ND	12.67	9.70	8.22	172-050-202R001
Solder Cup with .065" Clinch Nuts, Board Side — RoHS Compliant						
Tin Shell						
9	Male	2109MA-ND	4.14	2.84	2.26	172-009-102R011
	Female	2109FA-ND	4.56	3.13	2.49	172-009-202R011
15	Male	2115MA-ND	4.89	3.35	2.67	172-015-102R011
	Female	2115FA-ND	5.61	3.84	3.06	172-015-202R011
25	Male	2125MA-ND	5.64	3.86	3.07	172-025-102R011
	Female	2125FA-ND	6.49	4.75	3.94	172-025-202R011
37	Male	2137MA-ND	6.31	4.62	3.83	172-037-102R011
	Female	2137FA-ND	8.38	6.14	5.08	172-037-202R011
50	Male	2150MA-ND	10.45	7.65	6.34	172-050-102R011
	Female	2150FA-ND	13.64	10.45	8.85	172-050-102R011
9	Male	3109MA-ND	4.14	2.84	2.26	172-009-102R021
	Female	3109FA-ND	4.56	3.13	2.49	172-009-202R021
15	Male	3115MA-ND	4.89	3.35	2.67	172-015-102R021
	Female	3115FA-ND	5.61	3.84	3.06	172-015-202R021
25	Male	3125MA-ND	5.64	3.86	3.07	172-025-102R021
	Female	3125FA-ND	6.49	4.75	3.94	172-025-202R021
37	Male	3137MA-ND	6.31	4.62	3.83	172-037-102R021
	Female	3137FA-ND	8.38	6.14	5.08	172-037-202R021
50	Male	3150MA-ND	10.45	7.65	6.34	172-050-102R021
	Female	3150FA-ND	13.64	10.45	8.85	172-050-202R021
Solder Cup with .250" Clinch Nuts, Mating Side — RoHS Compliant						
Tin Shell						
9	Male	4109MA-ND	4.14	2.84	2.26	172-009-102R031
	Female	4109FA-ND	4.56	3.13	2.49	172-009-202R031
15	Male	4115MA-ND	4.89	3.35	2.67	172-015-102R031
	Female	4115FA-ND	5.61	3.84	3.06	172-015-202R031
25	Male	4125MA-ND	5.64	3.86	3.07	172-025-102R031
	Female	4125FA-ND	6.49	4.75	3.94	172-025-202R031
37	Male	4137MA-ND	6.31	4.62	3.83	172-037-102R031
	Female	4137FA-ND	8.38	6.14	5.08	172-037-202R031
50	Male	4150MA-ND	10.45	7.65	6.34	172-050-102R031
	Female	4150FA-ND	13.64	10.45	8.85	172-050-202R031
Dip Solder — RoHS Compliant						
Tin Shell						
9	Male	1509MNA-ND	3.09	2.12	1.69	172-009-112R001
	Female	1509FNA-ND	3.81	2.61	2.08	172-009-212R001
15	Male	1515MNA-ND	4.11	2.82	2.24	172-015-112R001
	Female	1515FNA-ND	5.34	3.66	2.91	172-015-212R001
25	Male	1525MNA-ND	5.13	3.52	2.80	172-025-112R001
	Female	1525FNA-ND	6.72	4.92	4.07	172-025-212R001
37	Male	1537MNA-ND	6.99	4.79	3.81	172-037-112R001
	Female	1537FNA-ND	9.44	6.91	5.73	172-037-212R001
50	Male	1550MNA-ND	9.82	7.19	5.96	172-050-112-001
	Female	1550FNA-ND	12.55	9.18	7.61	172-050-212-001
Dip Solder with .065" Clinch Nuts, Board Side						
Tin Shell — RoHS Compliant						
9	Male	2509MA-ND	4.41	3.02	2.41	172-009-112R011
	Female	2509FA-ND	5.19	3.56	2.83	172-009-212R011
15	Male	2515MA-ND	5.43	3.72	2.96	172-015-112R011
	Female	2515FA-ND	6.69	4.58	3.65	172-015-212R011
25	Male	2525MA-ND	6.45	4.42	3.52	172-025-112R011
	Female	2525FA-ND	7.85	5.75	4.76	172-025-212R011
37	Male	2537MA-ND	7.07	5.18	4.29	172-037-112R011
	Female	2537FA-ND	10.58	7.74	6.42	172-037-212R011
50	Male	2550MA-ND	10.96	8.02	6.65	172-050-112R011
	Female	2550FA-ND	12.24	9.38	7.94	172-050-212R011
Yellow Chromate						
15	Female	5515F-ND	5.19	4.48	3.05	172-015-211-011
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
50	Male	3550M-ND	5.85	5.26	5.02	172-050-112-021
Tin Shell — RoHS Compliant						
9	Male	3509MA-ND	4.41	3.02	2.41	172-009-112R021
	Female	3509FA-ND	5.19	3.56	2.83	172-009-212R021
15	Male	3515MA-ND	5.43	3.72	2.96	172-015-112R021
	Female	3515FA-ND	6.69	4.58	3.65	172-015-212R021
25	Male	3525MA-ND	6.45	4.42	3.52	172-025-112R021
	Female	3525FA-ND	7.85	5.75	4.76	172-025-212R021
37	Male	3537MA-ND	7.07	5.18	4.29	172-037-112R021
	Female	3537FA-ND	10.58	7.74	6.42	172-037-212R021
50	Male	3550MA-ND	10.96	8.02	6.65	172-050-112R021
	Female	3550FA-ND	12.24	9.38	7.94	172-050-212R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
9	Male	4515M-ND	2.91	2.24	2.14	172-015-112-031
25	Male	4525M-ND	3.45	2.65	2.53	172-025-112-031
Tin Shell — RoHS Compliant						
9	Male	4509MA-ND	4.41	3.02	2.41	172-009-112R031
	Female	4509FA-ND	5.19	3.56	2.83	172-009-212R031
15	Male	4515MA-ND	5.43	3.72	2.96	172-015-112R031
	Female	4515FA-ND	6.69	4.58	3.65	172-015-212R031
25	Male	4525MA-ND	6.45	4.42	3.52	172-025-112R031
	Female	4525FA-ND	7.85	5.75	4.76	172-025-212R031
37	Male	4537MA-ND	7.07	5.18	4.29	172-037-112R031
	Female	4537FA-ND	10.58	7.74	6.42	172-037-212R031

(Continued)

Series 172 – Machined Contacts *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
50	Male	4550MA-ND	10.96	8.02	6.65	172-050-112R031
	Female	4550FA-ND	12.24	9.38	7.94	172-050-212R031
Dip Solder with .225" Board Side, .197" Mating Side Clinch Nuts — RoHS Compliant						
Tin Shell						
9	Male	2909MA-ND	5.31	3.64	2.90	172-009-112R911
	Female	2909FA-ND	6.06	4.15	3.30	172-009-212R911
15	Male	2915MA-ND	6.39	4.38	3.48	172-015-112R911
	Female	2915FA-ND	6.39	4.68	3.88	172-015-212R911
25	Male	2925MA-ND	7.35	5.03	4.01	172-025-112R911
	Female	2925FA-ND	8.59	6.28	5.21	172-025-212R911
Wire Wrap — RoHS Compliant						
Tin Shell						
9	Male	1609MNA-ND	3.60	2.47	1.96	172-009-142R001
	Female	1609FNA-ND	4.32	2.96	2.36	172-009-242R001
15	Male	1615MNA-ND	5.49	3.76	2.99	172-015-142R001
	Female	1615FNA-ND	6.42	4.40	3.50	172-015-242R001
25	Male	1625MNA-ND	6.69	4.90	4.06	172-025-142R001
	Female	1625FNA-ND	10.71	7.84	6.49	172-025-242R001
37	Male	1637MNA-ND	9.54	6.99	5.79	172-037-142R001
	Female	1637FNA-ND	11.97	8.76	7.26	172-037-242R001
50	Male	1650MNA-ND	12.47	9.13	7.56	172-050-142R001
	Female	1650FNA-ND	14.59	11.17	9.46	172-050-242R001
Wire Wrap with .065" Clinch Nuts, Board Side						
Tin Shell						
37	Male	2637M-ND	5.60	5.03	4.81	172-037-142-011
50	Female	2650F-ND	8.50	8.14	7.78	172-050-242-011
Tin Shell — RoHS Compliant						
9	Male	2609MA-ND	4.71	3.23	2.57	172-009-142R011
	Female	2609FA-ND	5.13	3.52	2.80	172-009-242R011
15	Male	2615MA-ND	6.60	4.52	3.60	172-015-142R011
	Female	2615FA-ND	6.34	4.64	3.85	172-015-242R011
25	Male	2625MA-ND	7.63	5.58	4.63	172-025-142R011
	Female	2625FA-ND	11.64	8.52	7.06	172-025-242R011
37	Male	2637MA-ND	10.50	7.69	6.37	172-037-142R011
	Female	2637FA-ND	11.54	8.84	7.49	172-037-242R011
50	Male	2650MA-ND	12.00	9.19	7.78	172-050-142R011
	Female	2650FA-ND	15.43	11.81	10.00	172-050-242R011
Wire Wrap with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	3615M-ND	3.52	2.71	2.59	172-015-142-021
37	Male	3637M-ND	5.60	5.03	4.81	172-037-142-021
	Female	3637F-ND	6.88	6.18	5.91	172-037-242-021
50	Male	3650M-ND	7.17	6.44	6.15	172-050-142-021
Tin Shell — RoHS Compliant						
9	Male	3609MA-ND	4.71	3.23	2.57	172-009-142R021
	Female	3609FA-ND	5.43	3.72	2.96	172-009-242R021
15	Male	3615MA-ND	6.60	4.52	3.60	172-015-142R021
	Female	3615FA-ND	6.34	4.64	3.85	172-015-242R021
25	Male	3625MA-ND	7.63	5.58	4.63	172-025-142R021
	Female	3625FA-ND	11.64	8.52	7.06	172-025-242R021
37	Male	3637MA-ND	10.50	7.69	6.37	172-037-142R021
	Female	3637FA-ND	11.54	8.84	7.49	172-037-242R021
50	Male	3650MA-ND	12.00	9.19	7.78	172-050-142R021
	Female	3650FA-ND	15.43	11.81	10.00	172-050-242R021
Wire Wrap with .250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	4615M-ND	3.52	2.71	2.59	172-015-142-031
	Female	4615F-ND	4.03	3.09	2.96	172-015-242-031
25	Male	4625M-ND	4.83	3.71	3.55	172-025-142-031
37	Male	4637M-ND	5.60	5.03	4.81	172-037-142-031
	Female	4637F-ND	6.88	6.18	5.91	172-037-242-031
50	Male	4650M-ND	7.17	6.44	6.15	172-050-142-031
	Female	4650F-ND	8.50	8.14	7.78	172-050-242-031
Tin Shell — RoHS Compliant						
9	Male	4609MA-ND	4.71	3.23	2.57	172-009-142R031
	Female	4609FA-ND	5.43	3.72	2.96	172-009-242R031
15	Male	4615MA-ND	6.60	4.52	3.60	172-015-142R031
	Female	4615FA-ND	6.34	4.64	3.85	172-015-242R031
25	Male	4625MA-ND	7.63	5.58	4.63	172-025-142R031
	Female	4625FA-ND	11.64	8.52	7.06	172-025-242R031
37	Male	4637MA-ND	10.50	7.69	6.37	172-037-142R031
	Female	4637FA-ND	11.54	8.84	7.49	172-037-242R031
50	Male	4650MA-ND	12.00	9.19	7.78	172-050-142R031
	Female	4650FA-ND	15.43	11.81	10.00	172-050-242R031
Wire Wrap with .225" Board Side and .197" Mating Side Clinch Nuts						
Tin Shell						
9	Male	4909M-ND	2.91	2.24	2.14	172-009-142-911
15	Male	4915M-ND	3.92	3.01	2.88	172-015-142-911
	Female	4915F-ND	4.44	3.40	3.26	172-015-242-911
25	Female	4925F-ND	6.57	5.90	5.64	172-025-242-911
37	Male	4937M-ND	5.93	5.33	5.10	172-037-142-911
	Female	4937F-ND	7.22	6.48	6.20	172-037-242-911
50	Male	4950M-ND	7.50	6.74	6.44	172-050-142-911
	Female	4950F-ND	8.81	8.44	8.06	172-050-242-911
Tin Shell — RoHS Compliant						
9	Male	4909MA-ND	5.43	3.72	2.96	172-009-142R911
	Female	4909FA-ND	6.21	4.25	3.39	172-009-242R911
15	Male	4915MA-ND	7.35	5.03	4.01	172-015-142R911
	Female	4915FA-ND	6.99	5.12	4.24	172-015-242R911
25	Male	4925MA-ND	8.23	6.03	4.99	172-025-142R911
	Female	4925FA-ND	12.30	9.00	7.46	172-025-242R911
37	Male	4937MA-ND	11.11	8.13	6.74	172-037-142R911
	Female	4937FA-ND	12.09	9.25	7.84	172-037-242R911
50	Male	4950MA-ND	12.58	9.64	8.16	172-050-142R911
	Female	4950FA-ND	15.97	12.23	10.36	172-050-242R911

Series 172E – Machined Contacts Economy

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup						
Tin Shell						
37	Female	1137FE-ND	4.40	3.37	3.23	172-E37-202-001
50	Male	1150ME-ND	4.77	4.28	4.09	172-E50-102-001
Tin Shell — RoHS Compliant						
9	Male	1109MER-ND	2.64	1.72	1.32	172-E09-102R001
	Female	1109FER-ND	2.82	1.83	1.41	172-E09-202R001
15	Male	1115MER-ND	3.41	2.22	1.70	172-E15-102R001
	Female	1115FER-ND	3.06	2.10	1.67	172-E15-202R001
25	Male	1125MER-ND	3.45	2.37	1.88	172-E25-102R001
	Female	1125FER-ND	5.49	3.76	2.99	172-E25-202R001
37	Male	1137MER-ND	5.34	3.66	2.91	172-E37-102R001
	Female	1137FER-ND	5.34	3.66	2.91	172-E37-202R001
50	Male	1150MER-ND	8.03	5.88	4.87	172-E50-102R001
	Female	1150FER-ND	12.15	8.89	7.36	172-E50-202R001
Nickel Shell — RoHS Compliant						
9	Male	1109MEA-ND	2.82	1.83	1.41	172-E09-103R001
	Female	1109FEA-ND	3.20	2.08	1.60	172-E09-203R001
15	Male	1115MEA-ND	3.06	2.10	1.67	172-E15-103R001
	Female	1115FEA-ND	3.72	2.55	2.03	172-E15-203R001
25	Male	1125MEA-ND	3.99	2.73	2.18	172-E25-103R001
	Female	1125FEA-ND	5.49	3.76	2.99	172-E25-203R001
37	Male	1137MEA-ND	5.34	3.66	2.91	172-E37-103R001
	Female	1137FEA-ND	7.41	5.08	4.04	172-E37-203R001
50	Male	1150MEA-ND	8.03	5.88	4.87	172-E50-103R001
	Female	1150FEA-ND	12.15	8.89	7.36	172-E50-203R001
Yellow Chromate						
15	Male	115MEA-ND	2.25	1.51	1.45	172-E15-101R001
50	Male	150MEA-ND	5.30	4.77	4.56	172-E50-101R001
	Female	150FEA-ND	8.01	7.20	6.88	172-E50-201R001
Solder Cup with .065" Clinch Nuts, Board Side						
Tin Shell						
15	Male	2115ME-ND	2.48	1.90	1.82	172-E15-102-011
	Female	2115FE-ND	2.85	2.19	2.10	172-E15-202-011
37	Male	2137ME-ND	3.82	2.93	2.81	172-E37-102-011
	Female	2137FE-ND	4.25	3.82	3.65	172-E37-202-011
50	Male	2150ME-ND	5.32	4.78	4.57	172-E50-102-011
	Female	2150FE-ND	7.75	6.96	6.65	172-E50-202-011
Nickel Shell — RoHS Compliant						
9	Male	2109MEA-ND	3.54	2.43	1.93	172-E09-103R011
	Female	2109FEA-ND	3.87	2.65	2.11	172-E09-203R011
15	Male	2115MEA-ND	4.17	2.86	2.27	172-E15-103R011
	Female	2115FEA-ND	4.80	3.29	2.62	172-E15-203R011
25	Male	2125MEA-ND	5.07	3.47	2.76	172-E25-103R011
	Female	2125FEA-ND	6.57	4.50	3.58	172-E25-203R011
37	Male	2137MEA-ND	6.45	4.42	3.52	172-E37-103R011
	Female	2137FEA-ND	7.17	5.25	4.35	172-E37-203R011
50	Male	2150MEA-ND	8.96	6.56	5.44	172-E50-103R011
	Female	2150FEA-ND	11.70	8.96	7.59	172-E50-203R011
Yellow Chromate						
37	Female	5137FE-ND	4.53	4.07	3.89	172-E37-201-011
50	Male	5150ME-ND	5.32	4.78	4.57	172-E50-101-011
	Female	5150FE-ND	7.75	6.96	6.65	172-E50-201-011
9	Male	5109MEA-ND	2.23	1.71	1.64	172-E09-101R011
15	Male	5115MEA-ND	2.67	2.05	1.96	172-E15-101R011
25	Male	5125MEA-ND	3.00	2.30	2.20	172-E25-101R011
	Female	5125FEA-ND	3.84	2.94	2.82	172-E25-201R011
37	Male	5137MEA-ND	4.52	3.47	3.32	172-E37-101R011
	Female	5137FEA-ND	5.04	4.53	4.33	172-E37-201R011
50	Male	5150MEA-ND	5.92	5.32	5.08	172-E50-101R011
	Female	5150FEA-ND	7.97	7.63	7.29	172-E50-201R011
Solder Cup with .098" Clinch Nuts, Board Side — RoHS Compliant						
Tin Shell						
9	Male	2109MER-ND	3.39	2.32	1.85	172-E09-102R011
	Female	2109FER-ND	3.54	2.43	1.93	172-E09-202R011
15	Male	2115MER-ND	4.05	2.78	2.21	172-E15-102R011
	Female	2115FER-ND	4.17	2.86	2.27	172-E15-202R011
25	Male	2125MER-ND	4.53	3.10	2.47	172-E25-102R011
	Female	2125FER-ND	6.57	4.50	3.58	172-E25-202R011
37	Male	2137MER-ND	6.45	4.42	3.52	172-E37-102R011
	Female	2137FER-ND	6.45	4.42	3.52	172-E37-202R011
50	Male	2150MER-ND	8.96	6.56	5.44	172-E50-102R011
	Female	2150FER-ND	11.70	8.96	7.59	172-E50-202R011
Solder Cup with .236" Clinch Nuts, Board Side — RoHS Compliant						
Tin Shell						
9	Male	3109MER-ND	3.39	2.32	1.85	172-E09-102R021
	Female	3109FER-ND	3.54	2.43	1.93	172-E09-202R021
15	Male	3115MER-ND	4.05	2.78	2.21	172-E15-102R021
	Female	3115FER-ND	4.17	2.86	2.27	172-E15-202R021
25	Male	3125MER-ND	4.53	3.10	2.47	172-E25-102R021
	Female	3125FER-ND	6.57	4.50	3.58	172-E25-202R021
37	Male	3137MER-ND	6.45	4.42	3.52	172-E37-102R021
	Female	3137FER-ND	6.45	4.42	3.52	172-E37-202R021
50	Male	3150MER-ND	8.96	6.56	5.44	172-E50-102R021
	Female	3150FER-ND	11.70	8.96	7.59	172-E50-202R021
Solder Cup with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	3115ME-ND	2.48	1.90	1.82	172-E15-102-021
	Female	3115FE-ND	2.85	2.19	2.10	172-E15-202-021
37	Male	3137ME-ND	3.82	2.93	2.81	172-E37-102-021
	Female	3137FE-ND	4.25	3.82	3.65	172-E37-202-021
50	Male	3150ME-ND	5.32	4.78	4.57	172-E50-102-021
	Female	3150FE-ND	7.75	6.96	6.65	172-E50-202-021
Nickel Shell — RoHS Compliant						
9	Male	3109MEA-ND	3.54	2.43	1.93	172-E09-103R021
	Female	3109FEA-ND	3.87	2.65	2.11	172-E09-203R021
15	Male	3115MEA-ND	4.17	2.86	2.27	172-E15-103R021
	Female	3115FEA-ND	4.80	3.29	2.62	172-E15-203R021
25	Male	3125MEA-ND	5.07	3.47	2.76	172-E25-103R021
	Female	3125FEA-ND	6.57	4.50	3.58	172-E25-203R021
37	Male	3137MEA-ND	6.45	4.42	3.52	172-E37-103R021
	Female	3137FEA-ND	7.17	5.25	4.35	172-E37-203R021
50	Male	3150MEA-ND	8.96	6.56	5.44	172-E50-103R021
	Female	3150FEA-ND	11.70	8.96	7.59	172-E50-203R021
Yellow Chromate						
37	Male	6137ME-ND	4.06	3.12	2.98	172-E37-101-021
50	Male	6150ME-ND	5.32	4.78	4.57	172-E50-101-021
	Female	6150FE-ND	7.75	6.96	6.65	172-E50-201-021
9	Male	6109MEA-ND	2.23	1.71	1.64	172-E09-101R021
15	Male	6115MEA-ND	2.67	2.05	1.96	172-E15-101R021
	Female	6115FEA-ND	3.31	2.54	2.43	172-E15-201R021
25	Male	6125MEA-ND	3.00	2.30	2.20	172-E25-101R021
	Female	6125FEA-ND	3.84	2.94	2.82	172-E25-201R021
37	Male	6137MEA-ND	4.52	3.47	3.32	172-E37-101R021
	Female	6137FEA-ND	5.04	4.53	4.33	172-E37-201R021
50	Male	6150MEA-ND	5.92	5.32	5.08	172-E50-101R021
	Female	6150FEA-ND	7.97	7.63	7.29	172-E50-201R021
Solder Cup with .236" Clinch Nuts, Mating Side — RoHS Compliant						
Tin Shell						
9	Male	4109MER-ND	3.39	2.32	1.85	172-E09-102R031
	Female	4109FER-ND	3.54	2.43	1.93	172-E09-202R031
15	Male	4115MER-ND	4.05	2.78	2.21	172-E15-102R031
	Female	4115FER-ND	3.99	2.73	2.18	172-E15-202R031
25	Male	4125MER-ND	4.53	3.10	2.47	172-E25-102R031
	Female	4125FER-ND	6.57	4.50	3.58	172-E25-202R031
37	Male	4137MER-ND	6.45	4.42	3.52	172-E37-102R031
	Female	4137FER-ND	6.45	4.42	3.52	172-E37-202R031
50	Male	4150MER-ND	8.96	6.56	5.44	172-E50-102R031
	Female	4150FER-ND	11.70	8.96	7.59	172-E50-202R031
Solder Cup with .250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	4115ME-ND	2.48	1.90	1.82	172-E15-102-031
	Female	4115FE-ND	2.85	2.19	2.10	172-E15-202-031
25	Female	4125FE-ND	3.90	2.99	2.87	172-E25-202-031
37	Male	4137ME-ND	3.82	2.93	2.81	172-E37-102-031
	Female	4137FE-ND	4.25	3.82	3.65	172-E37-202-031
50	Male	4150ME-ND	5.32	4.78	4.57	172-E50-102-031
	Female	4150FE-ND	7.75	6.96	6.65	172-E50-202-031
Nickel Shell — RoHS Compliant						
9	Male	4109MEA-ND	3.54	2.43	1.93	172-E09-103R031
	Female	4109FEA-ND	3.87	2.65	2.11	172-E09-203R031
15	Male	4115MEA-ND	4.17	2.86	2.27	172-E15-103R031
	Female	4115FEA-ND	4.80	3.29	2.62	172-E15-203R031
25	Male	4125MEA-ND	5.07	3.47	2.76	172-E25-103R031
	Female	4125FEA-ND	6.57	4.50	3.58	172-E25-203R031
37	Male	4137MEA-ND	6.45	4.42	3.52	172-E37-103R031
	Female	4137FEA-ND	7.17	5.25	4.35	172-E37-203R031
50	Male	4150MEA-ND	8.96	6.56	5.44	172-E50-103R031
	Female	4150FEA-ND	11.70	8.96	7.59	172-E50-203R031
Yellow Chromate						
15	Male	7115ME-ND	2.40	1.84	1.76	172-E15-101-031
37	Male	7137ME-ND	4.06	3.12	2.98	172-E37-101-031
50	Male	7150ME-ND	5.32	4.78	4.57	172-E50-101-031
9	Male	7109MEA-ND	2.23	1.71	1.64	172-E09-101R031
	Female	7109FEA-ND	2.45	1.88	1.80	172-E09-201R031
15	Male	7115MEA-ND	2.67	2.05	1.96	172-E15-101R031
	Female	7115FEA-ND	3.31	2.54	2.43	172-E15-201R031
25	Female	7125FEA-ND	3.84	2.94	2.82	172-E25-201R031
37	Male	7137MEA-ND	4.52	3.47	3.32	172-E37-101R031
	Female	7137FEA-ND	4.53	4.07	3.89	172-E37-201R031
50	Male	7150MEA-ND	5.92	5.32	5.08	172-E50-101R031
	Female	7150FEA-ND	7.97	7.63	7.29	172-E50-201R031
Solder Cup with .225" Spacer/Board Lock						
Tin Shell						
9	Male	102909ME-ND	2.53	1.95	1.86	172-E09-102-911
15	Male	102915ME-ND	2.91	2.24	2.14	172-E15-102-911
	Female	202915FE-ND	3.29	2.52	2.42	172-E15-202-911
25	Female	202925FE-ND	4.34	3.33	3.18	172-E25-202-911
37	Male	102937ME-ND	4.26	3.27	3.13	172-E37-102-911
	Female	202937FE-ND	4.62	4.15	3.97	172-E37-202-911
50	Male	102950ME-ND	5.68	5.11	4.88	172-E50-102-911
	Female	202950FE-ND	8.12	7.29	6.97	172-E50-202-911
Nickel Shell — RoHS Compliant						
9	Male	102909MEA-ND	4.05	2.78	2.21	172-E09-103R911
	Female	202909FEA-ND	4.35	2.98	2.37	172-E09-203R911
15	Male	102915MEA-ND	4.68	3.21	2.55	172-E15-103R911
	Female	202915FEA-ND	5.31	3.64	2.90	172-E15-203R911
25	Male	102925MEA-ND	5.58	3.82	3.04	172-E25-103R911
	Female	202925FEA-ND	7.05	4.83	3.84	172-E25-203R911
37	Male	102937MEA-ND	6.93	4.75	3.78	172-E37-103R911
	Female	202937FEA-ND	7.58	5.55	4.59	172-E37-203R911
50	Male	102950MEA-ND	9.44	6.91	5.73	172-E50-103R911
	Female	202950FEA-ND	12.06	9.24	7.82	172-E50-203R911
Yellow Chromate						
15	Female	201915FE-ND	3.41	2.62	2.50	172-E15-201-911
25	Female	201925FE-ND	3.88	2.98	2.85	172-E25-201-911
50	Male	101950ME-ND	5.68	5.11	4.88	172-E50-101-911
	Female	201950FE-ND	8.12	7.29	6.97	172-E50-201-911
15	Male	101915MEA-ND	2.82	2.17	2.07	172-E15-101R911
	Female	201915FEA-ND	3.63	2.79	2.67	172-E15-201R911
25	Female	201925FEA-ND	3.92	3.01	2.88	172-E25-201R911

(Continued)

D-Sub Connectors

Series 172E – Machined Contacts Economy *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
37	Male	101937MEA-ND	4.57	3.51	3.35	172-E37-101R911
	Female	201937FEA-ND	5.02	4.51	4.31	172-E37-201R911
50	Male	1951MEA-ND	5.88	5.29	5.05	172-E50-101R911
	Female	201950FEA-ND	7.76	7.43	7.10	172-E50-201R911
Dip Solder						
Tin Shell						
15	Male	1515MNE-ND	2.00	1.54	1.47	172-E15-112-001
	Female	1515FNE-ND	2.59	1.99	1.91	172-E15-212-001
25	Male	1525MNE-ND	2.48	1.90	1.82	172-E25-112-001
50	Male	1550MNE-ND	4.77	4.28	4.09	172-E50-112-001
	Female	1550FNE-ND	6.08	5.46	5.22	172-E50-212-001
Nickel Shell — RoHS Compliant						
9	Male	1509MNEA-ND	3.06	1.99	1.53	172-E09-113R001
	Female	1509FNEA-ND	3.30	2.26	1.80	172-E09-213R001
15	Male	1515MNEA-ND	3.54	2.43	1.93	172-E15-113R001
	Female	1515FNEA-ND	4.59	3.15	2.50	172-E15-213R001
25	Male	1525MNEA-ND	4.38	3.00	2.39	172-E25-113R001
	Female	1525FNEA-ND	6.42	4.40	3.50	172-E25-213R001
37	Male	1537MNEA-ND	8.11	5.93	4.92	172-E37-113R001
	Female	1537FNEA-ND	8.11	5.93	4.92	172-E37-213R001
50	Male	1550MNEA-ND	8.43	6.17	5.12	172-E50-113R001
	Female	1550FNEA-ND	10.76	7.87	6.52	172-E50-213R001
9	Male	509MEA-ND	1.71	1.15	1.10	172-E09-111R001
15	Female	515FEA-ND	3.00	2.31	2.21	172-E15-211R001
37	Male	537MEA-ND	4.99	4.49	4.29	172-E37-111R001
	Female	537FEA-ND	4.99	4.49	4.29	172-E37-211R001
50	Female	550FEA-ND	7.05	6.34	6.06	172-E50-211R001
Dip Solder with .065" Clinch Nuts, Board Side						
Tin Shell						
15	Male	2515ME-ND	2.65	2.04	1.95	172-E15-112-011
	Female	2515FE-ND	3.25	2.49	2.39	172-E15-212-011
25	Female	2525FE-ND	4.51	3.47	3.32	172-E25-212-011
37	Male	2537ME-ND	4.06	3.12	2.98	172-E37-112-011
	Female	2537FE-ND	5.13	4.61	4.41	172-E37-212-011
50	Male	2550ME-ND	5.32	4.78	4.57	172-E50-112-011
	Female	2550FE-ND	6.63	5.96	5.70	172-E50-212-011
Nickel Shell — RoHS Compliant						
9	Male	2509MEA-ND	3.78	2.59	2.06	172-E09-113R011
	Female	2509FEA-ND	4.44	3.04	2.42	172-E09-213R011
15	Male	2515MEA-ND	4.68	3.21	2.55	172-E15-113R011
	Female	2515FEA-ND	5.73	3.93	3.12	172-E15-213R011
25	Male	2525MEA-ND	5.52	3.78	3.01	172-E25-113R011
	Female	2525FEA-ND	6.72	4.92	4.07	172-E25-213R011
37	Male	2537MEA-ND	9.06	6.64	5.50	172-E37-113R011
	Female	2537FEA-ND	9.06	6.64	5.50	172-E37-213R011
50	Male	2550MEA-ND	9.39	6.88	5.70	172-E50-113R011
	Female	2550FEA-ND	11.72	8.57	7.10	172-E50-213R011
Yellow Chromate						
15	Female	5515FE-ND	3.23	2.48	2.37	172-E15-211-011
25	Female	5525FE-ND	4.18	3.21	3.07	172-E25-211-011
50	Male	5550ME-ND	5.32	4.78	4.57	172-E50-111-011
	Female	5550FE-ND	6.63	5.96	5.70	172-E50-211-011
15	Male	5515MEA-ND	2.75	2.11	2.02	172-E15-111R011
25	Female	5525FEA-ND	4.87	3.74	3.58	172-E25-211R011
37	Male	5537MEA-ND	5.63	5.06	4.84	172-E37-111R011
	Female	5537FEA-ND	5.63	5.06	4.84	172-E37-211R011
50	Male	5550MEA-ND	5.63	5.06	4.84	172-E50-111R011
	Female	5550FEA-ND	7.73	6.95	6.64	172-E50-211R011
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Female	3515FE-ND	3.25	2.49	2.39	172-E15-212-021
37	Male	3537ME-ND	4.06	3.12	2.98	172-E37-112-021
50	Male	3550ME-ND	5.32	4.78	4.57	172-E50-112-021
	Female	3550FE-ND	6.63	5.96	5.70	172-E50-212-021
Nickel Shell — RoHS Compliant						
9	Male	3509MEA-ND	3.78	2.59	2.06	172-E09-113R021
	Female	3509FEA-ND	4.44	3.04	2.42	172-E09-213R021
15	Male	3515MEA-ND	4.68	3.21	2.55	172-E15-113R021
	Female	3515FEA-ND	5.73	3.93	3.12	172-E15-213R021
25	Male	3525MEA-ND	5.52	3.78	3.01	172-E25-113R021
	Female	3525FEA-ND	6.72	4.92	4.07	172-E25-213R021
37	Male	3537MEA-ND	9.06	6.64	5.50	172-E37-113R021
	Female	3537FEA-ND	9.06	6.64	5.50	172-E37-213R021
50	Male	3550MEA-ND	9.39	6.88	5.70	172-E50-113R021
	Female	3550FEA-ND	11.72	8.57	7.10	172-E50-213R021
Yellow Chromate						
15	Female	6515FE-ND	3.23	2.48	2.37	172-E15-211-021
25	Male	6525ME-ND	3.01	2.31	2.21	172-E25-111-021
	Female	6525FE-ND	4.18	3.21	3.07	172-E25-211-021
37	Male	6537ME-ND	4.08	3.13	3.00	172-E37-111-021
50	Male	6550ME-ND	5.32	4.78	4.57	172-E50-111-021
	Female	6550FE-ND	6.63	5.96	5.70	172-E50-211-021
15	Male	6515MEA-ND	2.75	2.11	2.02	172-E15-111R021
25	Male	6525MEA-ND	3.51	2.69	2.58	172-E25-111R021
	Female	6525FEA-ND	4.87	3.74	3.58	172-E25-211R021
37	Male	6537MEA-ND	5.63	5.06	4.84	172-E37-111R021
	Female	6537FEA-ND	5.63	5.06	4.84	172-E37-211R021
50	Male	6550MEA-ND	5.63	5.06	4.84	172-E50-111R021
	Female	6550FEA-ND	7.73	6.95	6.64	172-E50-211R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
9	Male	4509ME-ND	2.14	1.64	1.57	172-E09-112-031
	Female	4509FE-ND	2.51	1.93	1.85	172-E09-212-031
15	Male	4515ME-ND	2.65	2.04	1.95	172-E15-112-031
	Female	4515FE-ND	3.25	2.49	2.39	172-E15-212-031
25	Male	4525ME-ND	3.13	2.40	2.30	172-E25-112-031
37	Male	4537ME-ND	4.06	3.12	2.98	172-E37-112-031
50	Male	4550ME-ND	5.32	4.78	4.57	172-E50-112-031
Nickel Shell — RoHS Compliant						
9	Male	4509MEA-ND	3.78	2.59	2.06	172-E09-113R031
	Female	4509FEA-ND	4.44	3.04	2.42	172-E09-213R031
15	Male	4515MEA-ND	4.68	3.21	2.55	172-E15-113R031
	Female	4515FEA-ND	5.73	3.93	3.12	172-E15-213R031
25	Male	4525MEA-ND	5.52	3.78	3.01	172-E25-113R031
	Female	4525FEA-ND	6.72	4.92	4.07	172-E25-213R031
37	Male	4537MEA-ND	9.06	6.64	5.50	172-E37-113R031
	Female	4537FEA-ND	9.06	6.64	5.50	172-E37-213R031
50	Male	4550MEA-ND	9.39	6.88	5.70	172-E50-113R031
	Female	4550FEA-ND	11.72	8.57	7.10	172-E50-213R031
Yellow Chromate						
15	Female	7515FE-ND	3.23	2.48	2.37	172-E15-211-031
37	Male	7537ME-ND	4.08	3.13	3.00	172-E37-111-031
	Female	7537FE-ND	4.83	4.34	4.15	172-E37-211-031
50	Male	7550ME-ND	5.32	4.78	4.57	172-E50-111-031
9	Male	7509MEA-ND	2.24	1.72	1.65	172-E09-111R031
	Female	7509FEA-ND	2.86	2.20	2.10	172-E09-211R031
15	Male	7515MEA-ND	2.75	2.11	2.02	172-E15-111R031
	Female	7515FEA-ND	3.76	2.89	2.77	172-E15-211R031
25	Female	7525FEA-ND	4.87	3.74	3.58	172-E25-211R031
37	Male	7537MEA-ND	5.63	5.06	4.84	172-E37-111R031
	Female	7537FEA-ND	5.63	5.06	4.84	172-E37-211R031
50	Male	7550MEA-ND	5.63	5.06	4.84	172-E50-111R031
	Female	7550FEA-ND	7.73	6.95	6.64	172-E50-211R031
Dip Solder with .225" Board Side, .197" Mating Side Clinch Nuts						
Tin Shell						
37	Female	2937FE-ND	5.50	4.94	4.72	172-E37-212-911
50	Female	2950FE-ND	7.00	6.29	6.01	172-E50-212-911
Nickel Shell — RoHS Compliant						
9	Male	2909MEA-ND	4.56	3.13	2.49	172-E09-113R911
	Female	2909FEA-ND	5.22	3.58	2.85	172-E09-213R911
15	Male	2915MEA-ND	5.46	3.74	2.98	172-E15-113R911
	Female	2915FEA-ND	6.51	4.46	3.55	172-E15-213R911
25	Male	2925MEA-ND	6.30	4.32	3.43	172-E25-113R911
	Female	2925FEA-ND	7.37	5.40	4.47	172-E25-213R911
37	Male	2937MEA-ND	9.72	7.12	5.90	172-E37-113R911
	Female	2937FEA-ND	9.72	7.12	5.90	172-E37-213R911
50	Male	2950MEA-ND	10.05	7.36	6.09	172-E50-113R911
	Female	2950FEA-ND	12.37	9.05	7.50	172-E50-213R911
Yellow Chromate						
15	Male	1915ME-ND	2.79	2.14	2.05	172-E15-111-911
50	Male	1950ME-ND	5.70	5.12	4.90	172-E50-111-911
	Female	1950FE-ND	7.00	6.29	6.01	172-E50-211-911
37	Male	1937MEA-ND	6.06	5.45	5.21	172-E37-111R911
50	Male	1950MEA-ND	6.65	5.97	5.71	172-E50-111R911
	Female	1950FEA-ND	8.16	7.33	7.01	172-E50-211R911

Series 172
High Profile – Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Tin Shell						
37	Male	12637M-ND	7.90	7.10	6.78	172-037-182-001
	Female	12637F-ND	7.27	6.53	6.25	172-037-282-001
50	Female	12650F-ND	9.64	9.23	8.82	172-050-282-001
Nickel Shell — RoHS Compliant						
9	Male	12609MA-ND	4.08	2.80	2.23	172-009-183L001
	Female	12609FA-ND	6.79	4.97	4.12	172-009-283L001
15	Male	12615MA-ND	6.42	4.40	3.50	172-015-183L001
	Female	12615FA-ND	10.96	8.02	6.65	172-015-283L001
25	Male	12625MA-ND	8.53	6.25	5.18	172-025-183L001
	Female	12625FA-ND	15.99	12.25	10.37	172-025-283L001
37	Male	12637MA-ND	11.70	8.96	7.59	172-037-183L001
	Female	12637FA-ND	22.01	17.51	15.09	172-037-283L001
50	Male	12650MA-ND	16.38	12.54	10.62	172-050-183L001
	Female	12650FA-ND	31.33	24.92	21.48	172-050-283L001
Yellow Chromate						
9	Male	8609M-ND	2.36	1.81	1.73	172-009-181-001
15	Female	8615F-ND	4.30	3.30	3.16	172-015-281-001
9	Male	8609ME-ND	2.30	1.77	1.69	172-009-181L001
15	Male	8615ME-ND	3.41	2.62	2.50	172-015-181L001
	Female	8615FE-ND	4.46	3.42	3.27	172-015-281L001
25	Female	8625FE-ND	5.87	5.27	5.04	172-025-281L001
37	Male	8637ME-ND	8.13	7.79	7.44	172-037-181L001
	Female	8637FE-ND	8.10	7.28	6.95	172-037-281L001
50	Male	8650ME-ND	7.99	7.65	7.31	172-050-181L001
	Female	8650FE-ND	10.73	10.28	9.82	172-050-281L001
.065" Clinch Nuts, Board Side						
Tin Shell						
37	Male	13637M-ND	7.76	7.43	7.10	172-037-182-011
	Female	13637F-ND	7.77	6.98	6.68	172-037-282-011
50	Male	13650M-ND	8.27	7.43	7.10	172-050-182-011
	Female	13650F-ND	10.10	9.67	9.24	172-050-282-011
Nickel Shell — RoHS Compliant						
9	Male	13609MA-ND	4.56	3.13	2.49	172-009-183L011
	Female	13609FA-ND	7.30	5.34	4.43	172-009-283L011
15	Male	13615MA-ND	6.78	4.64	3.70	172-015-183L011
	Female	13615FA-ND	11.31	8.28	6.86	172-015-283L011
25	Male	13625MA-ND	8.91	6.52	5.41	172-025-183L011
	Female	13625FA-ND	16.42	12.57	10.65	172-025-283L011
37	Male	13637MA-ND	12.22	9.36	7.93	172-037-183L011
	Female	13637FA-ND	22.28	17.72	15.27	172-037-283L011
50	Male	13650MA-ND	17.48	13.39	11.34	172-050-183L011
	Female	13650FA-ND	31.49	25.05	21.59	172-050-283L011
Yellow Chromate						
9	Male	9609M-ND	2.95	2.27	2.17	172-009-181-011
15	Male	9615M-ND	3.96	3.04	2.91	172-015-181-011
	Female	9615F-ND	4.89	3.75	3.59	172-015-281-011
25	Male	9625M-ND	4.70	4.22	4.04	172-025-181-011
	Female	9625F-ND	6.08	5.46	5.22	172-025-281-011
37	Male	9637M-ND	6.50	5.84	5.58	172-037-181-011
	Female	9637F-ND	7.85	7.52	7.19	172-037-281-011
9	Male	9609ME-ND	2.95	2.27	2.17	172-009-181L011
15	Male	9615ME-ND	4.06	3.12	2.98	172-015-181L011
	Female	9615FE-ND	4.30	3.86	3.69	172-015-281L011
25	Female	9625FE-ND	6.42	5.76	5.51	172-025-281L011
37	Male	9637ME-ND	8.64	8.27	7.90	172-037-181L011
	Female	9637FE-ND	8.01	7.67	7.33	172-037-281L011
50	Male	9650ME-ND	8.52	8.16	7.79	172-050-181L011
	Female	9650FE-ND	11.24	10.76	10.28	172-050-281L011
.250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	14615M-ND	3.64	2.80	2.68	172-015-182-021
37	Female	14637F-ND	7.77	6.98	6.68	172-037-282-021
50	Male	14650M-ND	8.27	7.43	7.10	172-050-182-021
	Female	14650F-ND	10.10	9.67	9.24	172-050-282-021
Nickel Shell — RoHS Compliant						
9	Male	14609MA-ND	4.56	3.13	2.49	172-009-183L021
	Female	14609FA-ND	7.30	5.34	4.43	172-009-283L021
15	Male	14615MA-ND	6.78	4.64	3.70	172-015-183L021
	Female	14615FA-ND	11.31	8.28	6.86	172-015-283L021
25	Male	14625MA-ND	8.91	6.52	5.41	172-025-183L021
	Female	14625FA-ND	16.42	12.57	10.65	172-025-283L021
37	Male	14637MA-ND	12.22	9.36	7.93	172-037-183L021
	Female	14637FA-ND	7.77	6.98	6.68	172-037-283L021
50	Male	14650MA-ND	17.48	13.39	11.34	172-050-183L021
	Female	14650FA-ND	31.49	25.05	21.59	172-050-283L021
Yellow Chromate						
15	Male	10615M-ND	3.96	3.04	2.91	172-015-181-021
	Female	10615F-ND	4.89	3.75	3.59	172-015-281-021
25	Male	10625M-ND	4.70	4.22	4.04	172-025-181-021
	Female	10625F-ND	6.08	5.46	5.22	172-025-281-021
37	Male	10637M-ND	6.50	5.84	5.58	172-037-181-021
50	Female	10650F-ND	10.10	9.67	9.24	172-050-281-021
15	Male	10615ME-ND	4.06	3.12	2.98	172-015-181L021
25	Male	10625ME-ND	4.92	4.42	4.22	172-025-181L021
	Female	10625FE-ND	6.42	5.76	5.51	172-025-281L021
37	Female	10637FE-ND	8.01	7.67	7.33	172-037-281L021
50	Male	10650ME-ND	8.52	8.16	7.79	172-050-181L021
	Female	10650FE-ND	11.24	10.76	10.28	172-050-281L021
.250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	15615M-ND	3.64	2.80	2.68	172-015-182-031
25	Female	15625F-ND	5.77	5.18	4.95	172-025-282-031
50	Female	15650F-ND	10.10	9.67	9.24	172-050-282-031
Nickel Shell — RoHS Compliant						
9	Male	15609MA-ND	4.56	3.13	2.49	172-009-183L031
	Female	15609FA-ND	7.30	5.34	4.43	172-009-283L031
15	Male	15615MA-ND	6.78	4.64	3.70	172-015-183L031
	Female	15615FA-ND	11.31	8.28	6.86	172-015-283L031
25	Male	15625MA-ND	8.91	6.52	5.41	172-025-183L031
	Female	11625FA-ND	16.42	12.57	10.65	172-025-283L031
37	Male	15637MA-ND	12.22	9.36	7.93	172-037-183L031
	Female	15637FA-ND	22.28	17.72	15.27	172-037-283L031
50	Male	15650MA-ND	17.48	13.39	11.34	172-050-183L031
	Female	15650FA-ND	31.49	25.05	21.59	172-050-283L031
Yellow Chromate						
15	Male	11615M-ND	3.96	3.04	2.91	172-015-181-031
	Female	11615F-ND	4.89	3.75	3.59	172-015-281-031
37	Male	11637M-ND	6.50	5.84	5.58	172-037-181-031
	Female	11637F-ND	7.85	7.52	7.19	172-037-281-031
50	Female	11650F-ND	10.10	9.67	9.24	172-050-281-031
9	Male	11609ME-ND	2.95	2.27	2.17	172-009-181L031
	Female	11609FE-ND	3.72	2.86	2.73	172-009-281L031
15	Male	11615ME-ND	4.06	3.12	2.98	172-015-181L031
	Female	11615FE-ND	4.30	3.86	3.69	172-015-281L031
25	Male	11625ME-ND	4.92	4.42	4.22	172-025-181L031
37	Male	11637ME-ND	8.64	8.27	7.90	172-037-181L031
	Female	11637FE-ND	8.01	7.67	7.33	172-037-281L031
50	Male	11650ME-ND	8.52	8.16	7.79	172-050-181L031
	Female	11650FE-ND	11.24	10.76	10.28	172-050-281L031

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

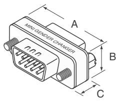

RoHS COMPLIANT

D-Sub Adapters
Connector Saver

Connector Size	Dimensions – Inch A	B	C
9	1.215	0.492	0.236
15	1.546	0.492	0.236
25	2.091	0.492	0.236
37	2.755	0.492	0.236
High Density			
15	1.215	0.492	0.236
26	1.546	0.492	0.236
44	2.091	0.492	0.236
62	2.755	0.492	0.236

No. of Pins	D-Sub	Digi-Key Part No.	Price Each 1	10	100
9	Male to Female	GCLP09M09F-ND	3.93	2.69	2.14
15		GCLP15M15F-ND	4.38	3.00	2.39
25		GCLP25M25F-ND	5.01	3.43	2.73
37		GCLP37M37F-ND	7.44	5.10	4.05
High Density					
15	Male to Female	GCHDLP15M15F-ND	6.24	4.27	3.40
15		GCHDLPF15M15F-ND‡	6.36	4.36	3.47
26		GCHDLP26M26F-ND	12.22	9.36	7.93
44		GCHDLP44M44F-ND	13.46	10.31	8.73
62		GCHDLP62M62F-ND	19.63	15.03	12.73

‡ Position number 9 contact loaded

Gender Changer

RoHS COMPLIANT

Connector Size	Dimensions – Inch A	B	C
9	1.215	0.492	0.236
15	1.546	0.492	0.236
25	2.091	0.492	0.236
37	2.755	0.492	0.236
High Density			
15	1.215	0.492	0.236
26	1.546	0.492	0.236
44	2.091	0.492	0.236
62	2.755	0.492	0.236

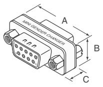

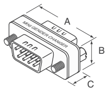

No. of Pins	D-Sub	Digi-Key Part No.	Price Each 1	10	100
9	Female to Female	GCLP09F09F-ND	3.81	2.61	2.08
15		GCLP15F15F-ND	4.53	3.10	2.47
25		GCLP25F25F-ND	5.16	3.54	2.81
37		GCLP37F37F-ND	6.36	4.66	3.86
9	Male to Male	GCLP09M09M-ND	3.63	2.49	1.98
15		GCLP15M15M-ND	4.26	2.92	2.32
25		GCLP25M25M-ND	4.83	3.31	2.63
37		GCLP37M37M-ND	7.26	4.97	3.96
High Density					
15	Female to Female	GCHDLP15F15F-ND	6.36	4.36	3.47
15		GCHDLPF15F15F-ND‡	6.36	4.36	3.47
26		GCHDLP26F26F-ND	12.31	9.43	7.98
44		GCHDLP44F44F-ND	13.69	10.48	8.88
62		GCHDLP62F62F-ND	19.83	15.19	12.86
15	Male to Male	GCHDLP15M15M-ND	6.03	4.13	3.29
15		GCHDLPF15M15M-ND‡	6.24	4.27	3.40
26		GCHDLP26M26M-ND	12.06	9.24	7.82
44		GCHDLP44M44M-ND	13.22	10.12	8.57
62		GCHDLP62M62M-ND	19.40	14.86	12.58

‡ Position number 9 contact loaded

RJADK Series
RJ45 Adaptor

RoHS COMPLIANT

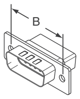

• 9, 15, and 25 position D-Subs/ both male and female versions • Supplied with contacts pre-crimped onto conductors - No crimp tool required • Snap together design allows low cost assembly • 4 ~ 40 thumbscrews supplied pre-installed in backshell

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.299	0.984	1.949	0.632	0.787
15	1.631	1.311	1.543	0.632	0.894
25	2.161	1.874	1.545	0.632	1.339

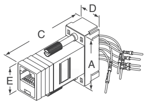

No. of Pins	D-Sub	Type	Digi-Key Part No.	Price Each 1	10	100
9	Male	Black Plastic	RJADK09P7080811-ND	4.53	3.10	2.47
9	Female		RJADK09S7080811-ND	4.53	3.10	2.47
25	Male		RJADK25P7080811-ND	4.53	3.10	2.47
25	Female		RJADK25S7080811-ND	4.53	3.10	2.47
9	Female	Metalized Plastic	RJADK09S7080821-ND	3.98	3.06	2.92
15	Male		RJADK15P7080821-ND	3.98	3.06	2.92
15	Female		RJADK15S7080821-ND	3.98	3.06	2.92
25	Male		RJADK25P7080821-ND	3.98	3.06	2.92
25	Female		RJADK25S7080821-ND	3.98	3.06	2.92
9	Male	Gray Plastic	RJADK09P7080831-ND	4.53	3.10	2.47
9	Female		RJADK09S7080831-ND	4.53	3.10	2.47

No. of Pins	D-Sub	Type	Digi-Key Part No.	Price Each 1	10	100
15	Male	Gray Plastic	RJADK15P7080831-ND	4.53	3.10	2.47
15	Female		RJADK15S7080831-ND	4.53	3.10	2.47
25	Male		RJADK25P7080831-ND	4.53	3.10	2.47
25	Female		RJADK25S7080831-ND	4.53	3.10	2.47

Backshells
952 Series – Straight/Top Entry

RoHS COMPLIANT

- 4 ~ 40 thumbscrews supplied with backshell
- More robust design for those areas that need it
- 360° shielding with mechanical strain relief
- 2 piece metalized plastic compression insert supplied

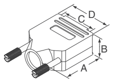

Connector Size	Dimensions – Inch A	B	C	D
9	1.626	0.606	0.984	1.268
15	1.705	0.606	1.312	1.598
25	1.949	0.606	1.852	2.146
37	2.138	0.606	2.500	2.783

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Nickel	952-09SCE-ND	9.19	6.73	5.57	952-009-030R121
15		952-15SCE-ND	7.45	5.45	4.52	952-015-030R121
25		952-25SCE-ND	7.55	5.53	4.58	952-025-030R121
37		952-37SCE-ND	11.44	8.37	6.94	952-037-030R121

956 Series – Straight/Top Entry

RoHS COMPLIANT

- Snap together design allows low cost assembly
- 4 ~ 40 mating screw supplied with backshell
- Quick assembly strain relief allows positive retention

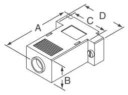

Connector Size	Dimensions – Inch A	B	C	D
9	1.618	0.622	0.984	1.201
15	1.634	0.610	1.311	1.579
25	1.732	0.670	1.874	2.110

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	956-09SPGE-ND	1.18	.69	.48	956-009-010R031
15		956-15SPGE-ND	1.18	.69	.48	956-015-010R031
25		956-25SPGE-ND	1.02	.64	.47	956-025-010R031
9	Black Plastic	956-09SPBE-ND	1.18	.69	.48	956-009-010R011
15		956-15SPBE-ND	1.18	.69	.48	956-015-010R011
25		956-25SPBE-ND	1.02	.64	.47	956-025-010R011
9	Metal Plastic	956-09SMPE-ND	1.64	1.01	.74	956-009-020R121
15		956-15SMPE-ND	1.72	1.07	.78	956-015-020R121
25		956-25SMPE-ND	1.92	1.19	.87	956-025-020R121

970 Series – Straight/Top Entry

- **Die Cast:** Lightweight zinc. Plating: Nickel over copper or black die cast
- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel with nickel or black chromate

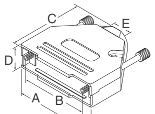

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.228	.984	1.571	.610	.465
15	1.555	1.312	1.634	.610	.465
25	2.102	1.852	1.913	.610	.465
37	2.744	2.500	2.110	.610	.465

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Black Die Cast	970-37BC-ND	5.80	5.21	4.98	970-037-040-011
RoHS Compliant						
9	Die Cast Nickel	970-09NE-ND	6.06	4.15	3.30	970-009-030R121
15		970-15NE-ND	7.23	4.95	3.94	970-015-030R121
25		970-25NE-ND	7.23	4.95	3.94	970-025-030R121
37		970-37NE-ND	9.34	6.84	5.67	970-037-030R121
9	Metalized Plastic	970-09MPE-ND	5.67	3.88	3.09	970-009-020R121
15		970-15MPE-ND	5.91	4.05	3.22	970-015-020R121
25		970-25MPE-ND	6.15	4.21	3.35	970-025-020R121
37		970-37MPE-ND	6.81	4.66	3.71	970-037-020R121
9	Black Plastic	970-09BPE-ND	3.20	2.08	1.60	970-009-010R011
15		970-15BPE-ND	3.20	2.08	1.60	970-015-010R011
25		970-25BPE-ND	3.34	2.17	1.66	970-025-010R011
37		970-37BPE-ND	3.00	2.06	1.64	970-037-010R011
9	Black Die Cast	970-09BCA-ND	6.06	4.15	3.30	970-009-040R011
15		970-15BCA-ND	7.23	4.95	3.94	970-015-040R011
25		970-25BCA-ND	7.23	4.95	3.94	970-025-040R011
37		970-37BCA-ND	9.34	6.84	5.67	970-037-040R011

972 Series –
Slim-Line Clam Shell Style

RoHS COMPLIANT

- High temperature ABS plastic UL 94V-2

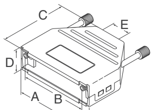

Conn. Size	Dimensions – Inch A	B	C	D	E
9	1.240	.984	1.339	.591	.453
15	1.575	1.312	1.339	.591	.453
25	2.106	1.852	1.575	.591	.453
37	2.795	2.500	1.575	.591	.453

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	972-09SGE-ND	3.09	2.12	1.69	972-009-01SR031
15		972-15SGE-ND	3.24	2.22	1.77	972-015-01SR031
25		972-25SGE-ND	3.39	2.32	1.85	972-025-01SR031
37		972-37SGE-ND	3.57	2.45	1.95	972-037-01SR031
9	Black Plastic	972-09SBE-ND	3.09	2.12	1.69	972-009-01SR011
15		972-15SBE-ND	3.24	2.22	1.77	972-015-01SR011
25		972-25SBE-ND	3.39	2.32	1.85	972-025-01SR011
37		972-37SBE-ND	3.57	2.45	1.95	972-037-01SR011
9	Red Plastic	972-09SR-ND	3.34	2.17	1.66	972-009-01SR061
15		972-15SR-ND	3.03	2.08	1.65	972-015-01SR061
25		972-25SR-ND	3.18	2.18	1.74	972-025-01SR061
9	Yellow Plastic	972-09SY-ND	3.34	2.17	1.66	972-009-01SR081
15		972-15SY-ND	3.03	2.08	1.65	972-015-01SR081
25		972-25SY-ND	3.18	2.18	1.74	972-025-01SR081

973 Series –
Straight / Top Entry

RoHS COMPLIANT

- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel, nickel plated

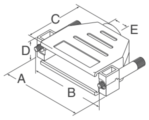

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.240	.984	1.221	.598	.335
15	1.575	1.312	1.378	.598	.335
25	2.106	1.852	1.496	.598	.433
37	2.756	2.500	1.575	.598	.433

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	973-09MPE-ND	6.39	4.68	3.88	973-009-020R121
15		973-15MPE-ND	6.62	4.84	4.01	973-015-020R121
25		973-25MPE-ND	6.77	4.95	4.11	973-025-020R121
37		973-37MPE-ND	9.17	6.71	5.56	973-037-020R121
9	Black Plastic	973-09BPE-ND	4.02	2.76	2.19	973-009-010R011
15		973-15BPE-ND	4.26	2.92	2.32	973-015-010R011
25		973-25BPE-ND	4.44	3.04	2.42	973-025-010R011
37		973-37BPE-ND	5.40	3.70	2.94	973-037-010R011

977 Series – Plastic or Metalized

RoHS COMPLIANT

• Available in both plain plastic and metalized for EMI/RFI suppression • Over 60dB shielding

Materials: • Shell: Thermoplastic polyester, UL rated 94V-0 • **Screw locks:** Brass • **EMI/RFI Plating:** Electroplated with nickel over copper

RoHS Compliant Materials: • Metalized Plastic: High Temperature, UL 94H-B Plating: Nickel over copper • **Plastic:** High Temperature plastic UL 94H-B (gray) • **Hardware:** Steel, Nickel plated

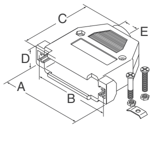

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.213	.984	1.594	.646	.275
15	1.563	1.312	1.453	.646	.400
25	2.165	1.852	1.752	.646	.435
37	2.736	2.500	2.096	.984	.535
50	2.640	2.406	1.750	.731	.450

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Shielded Metalized Plastic (for EMI/RFI)	909GME-ND	1.39	.86	.63	977-009-020R121
15		915GME-ND	1.64	1.01	.74	977-015-020R121
25		925GME-ND	1.64	1.01	.74	977-025-020R121
37		937GME-ND	3.41	2.22	1.70	977-037-020R121
50		950GME-ND	3.34	2.17	1.66	977-050-020R121
9	Plain Plastic	909GPE-ND	1.23	.72	.50	977-009-010R031
15		915GPE-ND	1.27	.79	.58	977-015-010R031
25		925GPE-ND	1.35	.84	.61	977-025-010R031
37		937GPE-ND	1.88	1.17	.85	977-037-010R031
50		950GPE-ND	2.26	1.47	1.13	977-050-010R031

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NORCOMP A DIVISION OF EDAC (AMERICA) LIMITED Backshells *(Cont.)*

978 Series – Plastic or Metalized

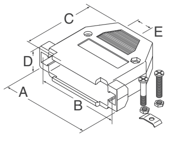

• Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • EMI/RFI Plating – Electroplated with nickel over copper **Materials: • Shell:** Thermoplastic polyester, UL rated 94V-0 **• Screw locks:** Brass **RoHS Compliant Materials: • Metalized Plastic:** High Temperature, UL 94H-B Plating: Chrome **• Plastic:** High Temperature plastic UL 94H-B (gray) • Steel, nickel plated

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.220	.984	1.693	.655	.276
15	1.535	1.312	1.693	.655	.315
25	2.118	1.852	1.929	.655	.374
37	2.756	2.500	1.929	.655	.433
50	2.650	2.406	1.909	.655	.551

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Gray Plastic	909CE-ND	2.00	1.24	.91	978-009-010R031
15		915CE-ND	1.81	1.18	.90	978-015-010R031
25		925CE-ND	1.88	1.22	.94	978-025-010R031
37		937CE-ND	2.68	1.74	1.34	978-037-010R031
50		950CE-ND	2.71	1.77	1.35	978-050-010R031
9	Metalized Plastic	909CAE-ND	2.09	1.36	1.04	978-009-020R121
15		915CAE-ND	2.40	1.56	1.20	978-015-020R121
25		925CAE-ND	2.54	1.65	1.27	978-025-020R121

979 Series – Plastic or Metalized Backshell

- ABS high temperature plastic UL 94H-B
- Chrome plating

Conn. Size	Dimensions – Inch				
	A	B	C	D	E
9	1.232	.984	1.913	.656	.354
15	1.555	1.312	1.895	.669	.374
25	2.100	1.852	1.900	.655	.397
37	2.748	2.500	1.900	.655	.512
50	2.697	2.406	1.900	.770	.512

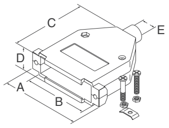

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Gray Plastic	979-09PGE-ND	1.77	1.16	.89	979-009-010R031
15		979-15PGE-ND	1.96	1.22	.89	979-015-010R031
25		979-25PGE-ND	1.81	1.18	.90	979-025-010R031
37		979-37PGE-ND	3.31	2.15	1.65	979-037-010R031
50		979-50PGE-ND	3.06	2.10	1.67	979-050-010R031
9	Metalized Plastic	979-09MPE-ND	2.23	1.45	1.11	979-009-020R121
15		979-15MPE-ND	2.40	1.56	1.20	979-015-020R121
25		979-25MPE-ND	2.68	1.74	1.34	979-025-020R121
37		979-37MPE-ND	3.93	2.69	2.14	979-037-020R121
50		979-50MPE-ND	4.26	2.92	2.32	979-050-020R121

979 Series – Die-Cast Zinc

- Rubber grommet/ strain relief for complete EMI/RFI shielding (over 70db)
- Solid die-cast ZINC construction
- Supplied complete with rubber grommet kit and male screw locks.

Conn. Size	Dimensions – Inch				
	A	B	C	D	E
9	1.22	.98	1.90	.63	.42
15	1.55	1.31	1.90	.63	.42
25	2.10	1.85	1.90	.63	.42
37	2.73	2.50	1.90	.63	.62
50	2.64	2.41	1.90	.77	.73

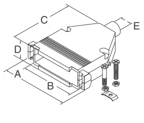

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Die Cast Zinc	909ZE-ND	3.27	2.13	1.63	979-009-030R121
15		915ZE-ND	3.21	2.20	1.75	979-015-030R121
25		925ZE-ND	3.99	2.73	2.18	979-025-030R121
37		937ZE-ND	5.91	4.05	3.22	979-037-030R121
50		950ZE-ND	7.07	5.18	4.29	979-050-030R121

994 Series – Die Cast, Ethernet

Material: Die cast zinc alloy, nickel plated. Included are housing screw and housing nuts.

Conn. Size	Dimensions – Inch					
	A	B	C	D	E	F
9	1.244	.984	1.82	.614	.433	.790
15	1.575	1.312	1.82	.665	.433	1.135
25	2.106	1.852	1.82	.630	.433	1.640

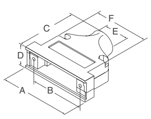

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Straight	994-09DCE-ND	6.60	4.52	3.60	994-009-030R121
15		994-15DCE-ND	6.87	4.71	3.74	994-015-030R121
25		994-25DCE-ND	6.49	4.75	3.94	994-025-030R121

981 Series – Ethernet

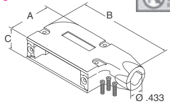

Materials:

- Zinc alloy ingot Plating: Nickel over copper
- Hardware: Steel, nickel plated

Connector Size	Dimensions – Inch					
	030			130		
	A	B	C	A	B	C
9	.984	1.240	1.850	1.265	1.850	0.628
15	1.312	1.555	2.323	1.580	2.314	0.639
25	1.852	2.106	2.835	2.143	2.870	0.633

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Die Cast Rt. Angle	909ERE-ND	6.18	4.23	3.37	981-009-030R121
15		915ERE-ND	6.54	4.48	3.56	981-015-030R121
25		925ERE-ND	6.34	4.64	3.85	981-025-030R121
9	Die Cast Rt. Angle	981-09RCE-ND†	5.28	3.62	2.88	981-009-130R121
15		981-15RCE-ND†	5.46	3.74	2.98	981-015-130R121
25		981-25RCE-ND†	6.36	4.36	3.47	981-025-130R121

† With Thumbscrews

950 Series – 60° Entry

FEATURES: • 4 ~ 40 mating screws supplied with backshell • Snap together design reduces assembly cost • Mechanical strain relief provides secure cable retention • Hood is the same thickness as connector • 60° exit promotes stacking and is suitable in extremely narrow spaces

Conn. Size	Dimensions – Inch				
	A	B	C	ø - Plastic	ø - Metal
9	1.457	0.496	1.409	0.315	0.354
15	1.496	0.496	1.736	0.315	0.354
25	1.614	0.496	2.280	0.354	0.354
37	1.614	0.496	2.925	0.354	0.354

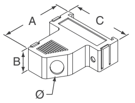

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Plastic	950-09P60E-ND	6.51	4.77	3.95	950-009-010R011
15		950-15P60E-ND	6.97	5.10	4.23	950-015-010R011
25		950-25P60E-ND	7.22	5.29	4.38	950-025-010R011
37		950-37P60E-ND	7.88	5.77	4.78	950-037-010R011
9	Metal Plastic	950-09MP60E-ND	11.84	9.06	7.68	950-009-020R121
15		950-15MP60E-ND	12.70	9.72	8.23	950-015-020R121
25		950-25MP60E-ND	13.12	10.05	8.51	950-025-020R121
37		950-37MP60E-ND	14.80	11.33	9.59	950-037-020R121

951 Series – 60° Entry

- 4 ~ 40 thumbscrews supplied with backshell
- Snap together design reduces assembly cost
- Mechanical strain relief provides secure cable retention
- Hood is the same thickness as connector
- 60° exit promotes stacking and is suitable in extremely narrow spaces

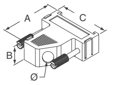

Connector Size	Dimensions – Inch				
	A	B	C	ø - Plastic	ø - Metal
9	1.457	0.496	1.409	0.315	0.354
15	1.496	0.496	1.736	0.315	0.354
25	1.614	0.496	2.280	0.354	0.354
37	1.614	0.496	2.925	0.354	0.354

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Plastic	951-0960PE-ND	4.30	3.86	3.69	951-009-010R011
15		951-15P60E-ND	5.27	4.73	4.52	951-015-010R011
25		951-25P60E-ND	5.40	4.85	4.64	951-025-010R011
37		951-37P60E-ND	5.97	5.36	5.12	951-037-010R011
9	Metal Plastic	951-09MP60E-ND	8.07	7.73	7.38	951-009-020R121
15		951-15MP60E-ND	9.27	8.88	8.48	951-015-020R121
25		951-25MP60E-ND	9.53	9.13	8.72	951-025-020R121
37		951-37MP60E-ND	10.89	10.43	9.96	951-037-020R121

954 Series – 45° Exit Ethernet Backshell

- Die Cast for excellent shielding
- Easy assembly reduces manufacturing cost
- 2 Piece grommet with various I.D.s included to enhance shielding and provide positive retention
- Slide locks and posts must be purchased separately

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.429	0.571	0.984	1.220	0.512
15	1.587	0.571	1.312	1.555	0.512
25	1.587	0.571	1.852	2.094	0.512
37	1.587	0.571	2.500	2.744	0.512

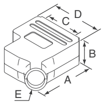

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Die Cast	954-09C45E-ND	6.51	4.77	3.95	954-009-030R121
15		954-15C45E-ND	7.88	5.77	4.78	954-015-030R121
25		954-25C45E-ND	8.05	5.90	4.89	954-025-030R121
37		954-37C45E-ND	12.47	9.13	7.56	954-037-030R121

971 Series – 45° Entry

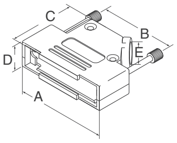

- **Die Cast:** Lightweight zinc. Plating: Nickel over copper or black die cast
- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel with nickel or black plating

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.220	.984	1.496	.610	.465
15	1.595	1.312	1.618	.610	.465
25	2.114	1.852	1.646	.610	.465
37	2.748	2.500	1.646	.610	.465

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
37	Nickel	971-37N45-ND	5.45	4.90	4.68	971-037-030-121
37	Plastic	971-37MP45-ND	4.00	3.07	2.94	971-037-020-121
RoHS Compliant						
9	Nickel	971-09N45E-ND	6.06	4.15	3.30	971-009-030R121
15		971-15N45E-ND	7.23	4.95	3.94	971-015-030R121
25		971-25N45E-ND	7.23	4.95	3.94	971-025-030R121
37		971-37N45E-ND	9.29	6.80	5.64	971-037-030R121
9	Metalized Plastic	971-09MP45E-ND	5.67	3.88	3.09	971-009-020R121
15		971-15MP45E-ND	5.91	4.05	3.22	971-015-020R121
25		971-25MP45E-ND	6.15	4.21	3.35	971-025-020R121
37		971-37MP45E-ND	6.81	4.66	3.71	971-037-020R121
9	Black Plastic	971-09BP45E-ND	3.20	2.08	1.60	971-009-010R011
15		971-15BP45E-ND	3.20	2.08	1.60	971-015-010R011
25		971-25BP45E-ND	3.34	2.17	1.66	971-025-010R011
37		971-37BP45E-ND	3.00	2.06	1.64	971-037-010R011
9	Black Die Cast	971-09CB45A-ND	6.06	4.15	3.30	971-009-040R011
15		971-15CB45A-ND	7.23	4.95	3.94	971-015-040R011
25		971-25CB45A-ND	7.23	4.95	3.94	971-025-040R011
37		971-37CB45A-ND	9.29	6.80	5.64	971-037-040R011

993 Series – 45° Economy

Material:

• **Metalized Plastic:** High Temperature UL 94H-B Plating: Chrome • **Plastic:** High Temperature plastic UL94H-B (gray) Included are housing screws, housing nuts, 4 ~ 40 thumbscrews, strain relief clamps, and strain relief screws.

• **Hardware:** Steel, nickel plated

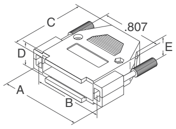

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.213	.984	1.595	.630	.260
25	2.165	1.852	2.095	.641	.400

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
9	Metalized Plastic	993-09MP45E-ND	2.33	1.52	1.16	993-009-020R121
25		993-25MP45E-ND	2.50	1.63	1.25	993-025-020R121
9	Plastic	993-109P45E-ND	1.96	1.22	.89	993-009-010R031
25		993-125P45E-ND	1.81	1.18	.90	993-025-010R031

974 Series – 40° Entry

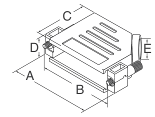

• **Metalized Plastic:**
High temperature plastic UL 94V-0. Plating: Nickel over copper

• **Plastic:**
High temperature plastic UL 94V-0 (black)

• **Hardware:** Steel, nickel plated

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.240	.984	1.457	.598	.335
15	1.575	1.312	1.457	.598	.335
25	2.106	1.852	1.614	.598	.433
37	2.756	2.500	1.614	.598	.433

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
37	Black Plastic	974-37BP40-ND	3.17	2.43	2.33	974-037-010-011
RoHS Compliant						
9	Metalized Plastic	974-09MP40E-ND	6.39	4.68	3.88	974-009-020R121
15		974-15MP40E-ND	6.62	4.84	4.01	974-015-020R121
25		974-25MP40E-ND	6.77	4.95	4.11	974-025-020R121
37		974-37MP40E-ND	9.17	6.71	5.56	974-037-020R121
9	Black Plastic	974-09BP40E-ND	4.02	2.76	2.19	974-009-010R011
15		974-15BP40E-ND	4.26	2.92	2.32	974-015-010R011
25		974-25BP40E-ND	4.44	3.04	2.42	974-025-010R011
37		974-37BP40E-ND	5.40	3.70	2.94	974-037-010R011

(Continued)

NorComp Backshells *(Cont.)*

953 Series – 35° Entry

- 4 ~ 40 thumbscrews supplied with backshell (9 position only comes with 1 thumbscrew)
- More robust design for those areas that need it
- Fully tapped assembly holes allow easy assembly keeping manufacturing cost down
- 360° shielding with mechanical strain relief
- 2 Piece metalized plastic compression insert supplied

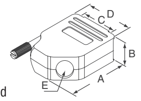

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.693	0.610	0.984	1.260	0.512
15	1.693	0.610	1.312	1.591	0.512
25	1.890	0.610	1.852	2.126	0.512
37	2.087	0.610	2.500	2.776	0.512

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast	953-09C35E-ND	6.82	4.99	4.14	953-009-030R121
15		953-15C35E-ND	7.75	5.67	4.70	953-015-030R121
25		953-25C35E-ND	7.98	5.84	4.84	953-025-030R121
37		953-37C35E-ND	7.83	7.04	6.73	953-037-030R121

982 Series –
Plastic or Metalized

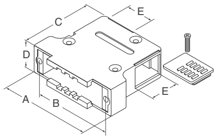

- Cable Exit Top or Side • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60dB shielding • Operating Temperature: -35°C ~ 95°C

Materials: • **Shell:** Thermoplastic polyester; UL rated 94V-0 • **Screw locks:** Brass • **EMI/RFI Plating:** Electroplated with nickel over copper. Electroplated parts not UL rated

RoHS Compliant Materials: • **Metalized Plastic:** High temperature UL 94V-0 Plating: Electroplated nickel over copper • **Plastic:** High temperature plastic UL 94V-0 (gray) • **Hardware:** Steel, nickel plated

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9†	1.23	.984	1.38	.630	.350
15	1.56	1.312	1.61	.630	.374
25	2.10	1.852	1.81	.630	.444
37	2.74	2.5	1.81	.630	.444
50	2.65	2.406	1.81	.735	.543

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
50	Gray Plastic	950U-ND	4.00	3.07	2.94	982-050-010-031
RoHS Compliant						
9	Gray Plastic	909UE-ND†	5.49	3.76	2.99	982-009-010R031
15		915UE-ND	6.27	4.30	3.42	982-015-010R031
37		937UE-ND	6.41	4.70	3.89	982-037-010R031
50		950UE-ND	6.59	4.83	4.00	982-050-010R031
9	Shielded Metalized Plastic	909UAE-ND†	8.46	6.19	5.13	982-009-020R121
15		915UAE-ND	10.13	7.41	6.14	982-015-020R121
25		925UAE-ND	10.76	7.87	6.52	982-025-020R121
37		937UAE-ND	11.32	8.67	7.34	982-037-020R121
50		950UAE-ND	12.40	9.50	8.04	982-050-020R121

† 9-pin does not have a 90° cable entry.

975 Series –
Plastic or Metalized

- 3-Way entry allows choice of entry options or use of multiple cable entries
- 4 ~ 40 thumbscrews supplied with backshell
- Fully tapped assembly holes allow easy assembly, keeping manufacturing cost down
- Metalized plastic provides up to 60dB shielding

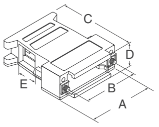

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9†	1.213	.984	1.800	.600	.300
15	1.541	1.312	1.800	.600	.335
25	2.088	1.852	1.800	.600	.375
37	2.735	2.500	1.800	.600	.400

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	975-09MPA-ND†	6.39	4.68	3.88	975-009-020R121
15		975-15MPA-ND	6.62	4.84	4.01	975-015-020R121
25		975-25MPA-ND	6.77	4.95	4.11	975-025-020R121
37		975-37MPA-ND	9.17	6.71	5.56	975-037-020R121
9	Black Plastic	975-09BPA-ND†	6.36	4.36	3.47	975-009-010R011
15		975-15BPA-ND	6.36	4.36	3.47	975-015-010R011
25		975-25BPA-ND	6.36	4.36	3.47	975-025-010R011
37		975-37BPA-ND	7.27	5.32	4.41	975-037-010R011

† 9 position has top cable entry only

976 Series –
Plastic, Flat Ribbon

ABS high temperature plastic 94HB.
Complete with 4-40 mating screws, housing screws and housing nuts.

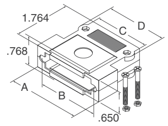

Conn. Size	Dimensions – Inch			
	A	B	C	D
9	1.319	.984	.758	.946
15	1.622	1.312	1.102	1.289
25	2.157	1.852	1.642	1.874
37	2.815	2.500	2.283	2.470

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	976-09RPE-ND	1.98	1.29	.99	976-009-010R031
15		976-15RPE-ND	2.26	1.47	1.13	976-015-010R031
25		976-25RPE-ND	2.61	1.70	1.30	976-025-010R031
37		976-37RPE-ND	2.82	1.83	1.41	976-037-010R031

957 Series –
Gender Changer Backshell

- Snap together design allows low cost assembly
- 4 ~ 40 Mating screw for male connectors supplied with backshell
- 4 ~ 40 female coupling for females connectors sold separately
- Internal cavity designed for PCB

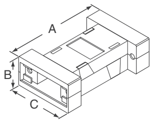

Connector Size	Dimensions – Inch		
	A	B	C
9	2.083	0.653	0.984
15	2.047	0.630	1.311
25	2.087	0.638	1.852

9/25 Adapter

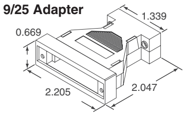

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Black Plastic	957-0911E-ND	1.64	1.01	.74	957-009-010R011
15		957-1511E-ND	1.84	1.14	.84	957-015-010R011
9/25		957-92511E-ND	1.84	1.14	.84	957-925-010R011
25		957-2511E-ND	1.84	1.14	.84	957-025-010R011
9	Grey Plastic	957-0931E-ND	1.64	1.01	.74	957-009-010R031
15		957-1531E-ND	1.84	1.14	.84	957-015-010R031
9/25		957-92531E-ND	1.84	1.14	.84	957-925-010R031
25		957-2531E-ND	1.84	1.14	.84	957-025-010R031
9	Metalized Plastic	957-0921E-ND	2.44	1.59	1.22	957-009-020R121
15		957-1521E-ND	2.64	1.72	1.32	957-015-020R121
9/25		957-92521E-ND	2.64	1.72	1.32	957-925-020R121
25		957-2521E-ND	2.64	1.72	1.32	957-025-020R121

983 Series –
Plain Plastic or Metalized Plastic

- May be used as a "Gender Changer," pin-out changer, or standard backshell
- Snap-together assembly
- Half-clamp with self-tapping screws provides positive strain-relief
- Available in plain plastic or metalized for EMI/RFI shielding

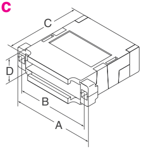

Connector Size	Dimensions – Inch				Max. Cable Dia.
	A	B	C	D	
9	1.25	.98	1.92	.65	.27
15	1.56	1.31	1.92	.63	.47
25	2.12	1.85	1.92	.63	.47
37	2.75	2.50	1.92	.63	.47
50	2.75	2.40	1.92	.75	.47

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plain Plastic	909PE-ND	2.00	1.24	.91	983-009-010R031
15		915PE-ND	2.02	1.31	1.01	983-015-010R031
25		925PE-ND	2.44	1.59	1.22	983-025-010R031
37		937PE-ND	3.60	2.47	1.96	983-037-010R031
50		950PE-ND	3.78	2.59	2.06	983-050-010R031
9	Metalized Plastic	909M2E-ND	2.68	1.74	1.34	983-009-020R121
15		915M2E-ND	2.89	1.88	1.44	983-015-020R121
25		925M2E-ND	3.18	2.18	1.74	983-025-020R121
37		937M2E-ND	4.11	2.82	2.24	983-037-020R121
50		950M2E-ND	5.07	3.47	2.76	983-050-020R121

D-Sub Backshell Design Kit

Each kit contains a backshell from several different Norcomp backshell series, and a quick reference guide. The data sheet for each kit has a detailed list of what backshells are included.

Type	Digi-Key Part No.	Price Each
Plastic	DESIGNKIT-010-ND	55.50
Metalized Plastic	DESIGNKIT-020-ND	55.50
Die Cast	DESIGNKIT-030-ND	55.50

Non-Conductive Rubber Grommet Sets

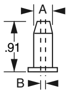

For better EMI/RFI Shielding and/or strain relief. For use with D-Sub Backshells. **Note:** Grom-9/25 and Grom-50 have four grommets per set and Grom-37 has three per set.

Description	Outside Dia. A (Inch)	Inside Dia. B (Inch)			
9/25	.400	.185	.248	.290	.335
37	.620	.320	.410	.500	—
50	.730	.340	.425	.495	.650

Description	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
DB 37 Grom. Set	902G-ND	.98	.61	.55	162-000-037-000
DB 50 Grom. Set	903G-ND	1.15	.77	.74	162-000-050-000
RoHS Compliant					
DB 9/25 Grom. Set	901GA-ND	.87	.51	.35	162-000-925R000
DB 37 Grom. Set	902GA-ND	1.72	1.07	.78	162-000-037R000
DB 50 Grom. Set	903GA-ND	1.95	1.27	.97	162-000-050R000

112 Series – Solder Cup Connector with Right Angle Backshell (Centronics Type)

Material:
- **Insulator:** Glass-filled thermoplastic, UL Rated 94V-0.
- **Contacts:** Copper alloy.
- **Shell:** Steel, nickel plated.
- **Contact Plating:** Gold plated.

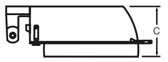

Connector Size	Dimensions – Inch			
	A	B	C	D
50	3.780	2.538	1.325	.646

Fig. 1

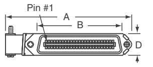

Fig. 2

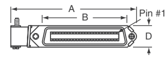

Fig. 3

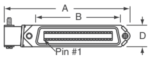

Fig. 4

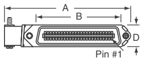

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	50	Male	1550RM-ND	4.88	4.39	4.19	112-050-103-011
2	50	Female	1550RF-ND	4.88	4.39	4.19	112-050-203-011
3	50	Female	1550LF-ND	4.88	4.39	4.19	112-050-203-021
RoHS Compliant							
1	50	Male	1550RMA-ND	8.23	6.03	4.99	112-050-103L011
2	50	Female	1550RFA-ND	8.23	6.03	4.99	112-050-203L011
3	50	Female	1550LFA-ND	8.23	6.03	4.99	112-050-203L021
4	50	Male	1550LMA-ND	8.74	6.40	5.30	112-050-103L021

955 Series – Quick Lock and Quick Release Post Kits

- New locking system allows single hand removal / mating with secure latching. Ideal for high vibration environments
- 9 and 15 position allows 2-way cable exit
- 25 and 37 position allows 3-way cable exit
- Quick Locks Require Quick Release Post Kits

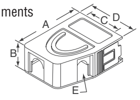

Conn. Size	Dimensions – Inch				
	A	B	C	D	E
9	1.740	0.606	0.984	1.299	0.354
15	1.740	0.606	1.312	1.626	0.354
25	1.740	0.606	1.852	2.165	0.433
37	1.740	0.606	2.500	2.815	0.433

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Quick Locks						
9	Black Plastic	955-09QPE-ND	7.35	5.03	4.01	955-009-010R011
15		955-15QPE-ND	6.49	4.75	3.94	955-015-010R011
25		955-25QPE-ND	6.62	4.84	4.01	955-025-010R011
37		955-37QPE-ND	9.19	6.73	5.57	955-037-010R011
9	Metalized Plastic	955-09QMPE-ND	9.80	7.17	5.94	955-009-020R121
15		955-15QMPE-ND	10.53	7.71	6.39	955-015-020R121
25		955-25QMPE-ND	11.21	8.21	6.80	955-025-020R121
37		955-37QMPE-ND	13.94	10.67	9.04	955-037-020R121
9	Die Cast	955-09QCE-ND	22.18	16.98	14.38	955-009-030R121
15		955-15QCE-ND	21.29	16.94	14.60	955-015-030R121
25		955-25QCE-ND	22.17	17.64	15.20	955-025-030R121
37		955-37QCE-ND	31.62	25.15	21.67	955-037-030R121
Quick Release Post Kits (See Note)						
—	—	QLOCKPOST-1-ND	3.17	—	—	QLOCKPOST-1
—	—	QLOCKPOST-2-ND	3.10	—	—	QLOCKPOST-2
—	—	QLOCKPOST-3-ND	4.17	—	—	QLOCKPOST-3
—	—	QLOCKPOST-5-ND	4.17	—	—	QLOCKPOST-5
—	—	QLOCKPOST-6-ND	2.75	—	—	QLOCKPOST-6

Note: See Data Sheets for Dimension Specifications

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

Hardware

Fig. 1

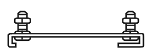

Fig. 2

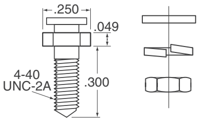

Fig. 3

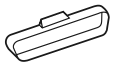

Fig. 4

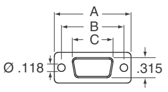

Fig. 5

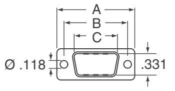

Fig. 6

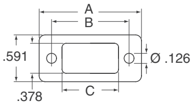

Fig. 7

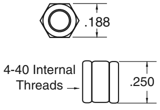

Fig. 8

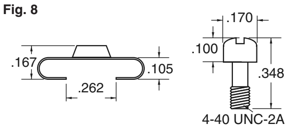

Fig. 9

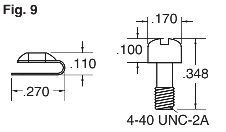

Fig. 10

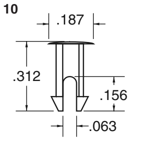

Fig. 11

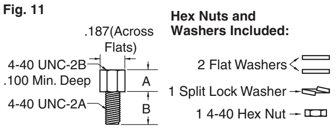

Fig. 12

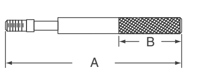

Fig.	Description	Dim. - Inch			Digi-Key Part No.	Pricing			NorComp Part No.
		A	B	C		1	10	100	
	Slide Lock Posts for Ethernet Hood (980, 981 and 994 Series) — RoHS Compliant								
1	9-Pin, D-Sub or Ethernet	—	—	—	160-09SLA-ND	2.30	14.91	114.11	160-009-002R031
	15-Pin, D-Sub or Ethernet	—	—	—	T2040A-ND	1.81	11.75	89.91	160-015-003R031
	25-Pin, D-Sub or Ethernet	—	—	—	160-25SLA-ND	2.68	17.39	133.13	160-025-004R031
2	2 Connectors Required	—	—	—	T2042A-ND	1.10	6.82	49.87	160-000-005R031
	Dust Cover								
3	Female, 9-Position D-Sub	—	—	—	909DCA-ND◆	1.08	6.30	43.11	160-000-209R000
	Female, 15-Position D-Sub	—	—	—	915DCA-ND◆	1.31	8.08	59.10	160-000-215R000
	Female, 25-Position D-Sub	—	—	—	925DCA-ND◆	1.03	6.00	41.06	160-000-225R000
	Female, 37-Position D-Sub	—	—	—	160-37FA-ND◆	1.02	6.31	46.18	160-000-237R000
	Female, 50-Position D-Sub	—	—	—	160-50FA-ND◆	1.23	7.58	55.41	160-000-250R000
	Male, 9-Position D-Sub	—	—	—	160-09MA-ND◆	1.08	6.30	43.11	160-000-109R000
	Male, 15-Position D-Sub	—	—	—	160-15MA-ND◆	1.08	6.30	43.11	160-000-115R000
	Male, 25-Position D-Sub	—	—	—	160-25M-ND	.61	3.56	27.32	160-000-125-000
	Male, 25-Position D-Sub	—	—	—	160-25MA-ND◆	1.13	6.60	45.17	160-000-125R000
	Male, 37-Position D-Sub	—	—	—	160-37MA-ND◆	1.02	6.31	46.18	160-000-137R000
	Male, 50-Position D-Sub	—	—	—	160-50MA-ND◆	1.23	7.58	55.41	160-000-150R000
	Shielded Dust Cover								
3	Female, 9-Position D-Sub	—	—	—	160-209FA-ND◆	4.02	27.51	218.82	160-020-209R000
	Female, 15-Position D-Sub	—	—	—	160-215F-ND	2.24	17.15	164.08	160-020-215-000
	Female, 15-Position D-Sub	—	—	—	160-215FA-ND◆	4.17	28.54	226.99	160-020-215R000
	Female, 25-Position D-Sub	—	—	—	160-225F-ND	2.42	18.52	177.14	160-020-225-000
	Female, 25-Position D-Sub	—	—	—	160-225FA-ND◆	4.53	31.00	246.58	160-020-225R000
	Male, 9-Position D-Sub	—	—	—	160-209MA-ND◆	3.33	22.79	181.26	160-020-109R000
	Male, 15-Position D-Sub	—	—	—	160-215MA-ND◆	3.84	26.28	209.02	160-020-115R000
	Male, 25-Position D-Sub	—	—	—	160-225M-ND	2.20	16.85	161.17	160-020-125-000
	Male, 25-Position D-Sub	—	—	—	160-225MA-ND◆	4.11	28.13	223.72	160-020-125R000
	Cover Flange — RoHS Compliant								
4	Female, 9-Position D-Sub	1.209	.984	.642	CF09S-ND	2.89	18.75	143.51	CF09S
	Female, 15-Position D-Sub	1.535	1.312	.969	CF15S-ND	3.10	20.11	153.88	CF15S
	Female, 25-Position D-Sub	2.083	1.852	1.512	CF25S-ND	3.24	21.01	160.80	CF25S
	Female, 37-Position D-Sub	2.728	2.500	2.157	CF37S-ND	3.42	23.40	186.16	CF37S
	Female, 50-Position D-Sub	2.626	2.406	2.059	CF50S-ND	2.55	19.58	187.31	CF50S
5	Male, 9-Position D-Sub	1.205	.984	.669	CF09P-ND	2.89	18.75	143.51	CF09P
	Male, 15-Position D-Sub	1.535	1.312	.996	CF15P-ND	3.10	20.11	153.88	CF15P
	Male, 25-Position D-Sub	2.079	1.852	1.535	CF25P-ND	3.24	21.01	160.80	CF25P
	Male, 37-Position D-Sub	2.724	2.500	2.181	CF37P-ND	3.42	23.40	186.16	CF37P
	Male, 50-Position D-Sub	2.626	2.406	2.079	CF50P-ND	3.87	26.48	210.66	CF50P
	Silicon Sealing Flange — RoHS Compliant								
6	9-Position	1.299	.984	.717	SF09-ND	1.14	7.07	51.72	SF09
	15-Position	1.614	1.311	1.039	SF15-ND	1.39	8.59	62.80	SF15
	25-Position	2.165	1.850	1.583	SF25-ND	1.47	9.09	66.49	SF25
	37-Position	2.835	2.500	2.228	SF37-ND	1.13	7.00	62.83	SF37
	4-40 Female Coupling Nut — RoHS Compliant								
7	Brass Finish, Nickel Plated	—	—	—	160-06YCA-ND	.37	2.09	13.55	160-000-006R032
	4-40 Male Screwlock with Slip-On Retainer — RoHS Compliant								
8	Steel Finish, Nickel Plated	—	—	—	160-01MYCA-ND	1.76	10.86	79.42	160-000-001R031
	4-40 Male Screwlock with Clip-On Retainer (2 screws, 2 clips) — RoHS Compliant								
9	Screw - Steel, Nickel Plated, Clip - Stainless Steel	—	—	—	160-02MA-ND	1.31	8.08	59.10	160-000-002R031
	Plastic Clips for Retaining Connectors to PC .062" Board								
10	Nylon	—	—	—	163-01P-ND	.20	1.15	7.70	163-001-000-000
	4-40 Female Screwlock Assembly — RoHS Compliant								
11	Steel Finish, Nickel Plated	.187	.312	—	160-10FA-ND	1.10	6.82	49.87	160-000-010R031
	Steel Finish, Nickel Plated	.187	.625	—	160-11FA-ND	1.47	9.09	66.49	160-000-011R031
	Steel Finish, Nickel Plated	.250	.156	—	160-12FA-ND	1.23	7.58	55.41	160-000-012R031
	Steel Finish, Nickel Plated	.197	.197	—	160-13FA-ND	1.02	6.31	46.18	160-000-013R031
	Steel Finish, Nickel Plated	.197	.236	—	160-14FA-ND	1.23	7.20	49.27	160-000-014R031
	Steel Finish, Nickel Plated	.197	.323	—	160-15FA-ND	1.23	7.20	49.27	160-000-015R031
	Steel Finish, Nickel Plated	.197	.433	—	160-16FA-ND	1.23	7.58	55.41	160-000-016R031
	Steel Finish, Nickel Plated	.197	.520	—	160-17FA-ND	1.23	7.20	49.27	160-000-017R031
	Steel Finish, Nickel Plated	.197	.669	—	160-18FA-ND	1.43	8.84	64.65	160-000-018R031
	4-40 Female Screwlock — RoHS Compliant								
11	Steel Finish, Nickel Plated	.187	.312	—	SFSO4401NR-ND†	.49	2.78	18.07	SFSO4401NR
	Steel Finish, Nickel Plated	.197	.197	—	SFSO4404NR-ND†	.49	2.78	18.07	SFSO4404NR
	4-40 Thumbscrew — Steel Finish, Nickel Plated — RoHS Compliant								
12	For 977/ 978/ 979 Series Backshells	1.75	.625	—	160-02TSA-ND	.51	3.00	20.53	160-000-050R031
	M2.6 Thumbscrew — Steel Finish, Nickel Plated — RoHS Compliant								
12	For 970/ 972 Series Backshells	1.811	.360	—	160-03TSA-ND	1.10	6.82	49.87	160-000-060R031
	Tool								
—	Insertion/Removal Tool				T2020-ND	8.36	—	—	180-901-170-000

◆ ***RoHS Compliant*** † Hex Nuts and Washers **NOT** Included

Parallel Interface Connectors (Centronics Type)

Material: • **Insulator:** Glass filled thermoplastic, UL 94V-0 rated • **Shell:** Steel, Nickel plated • **Contacts:** Copper alloy, 10µ gold over 30µ nickel

Fig. 1

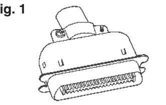

Male Cable Plug: • Compatible with industry standard • Solder Cup • Complete with cable boot, shell and hardware

Fig. 2

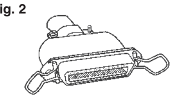

Female Cable Receptacle: • Compatible with industry standard • Complete with spring latches and cable boot • Solder Cup • Can be used as panel mount

Fig. 3

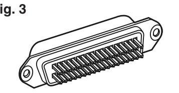

Panel Mount Male Plug: • 0.103" (2.62mm) Mounting hole accepts #3 screw (not included) • Compatible with industry standard • Solder Cup • Insulator color: Blue

Fig. 4

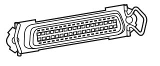

Panel Mount Female Receptacle: • Compatible with industry standard • Complete with spring latches • Solder Cup • Insulator color: Blue

Fig. 5

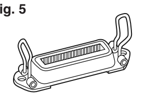

(Female Shown)

Straight DIP Solder: • For standard .062" (1.57mm) PC mount • Latch locks standard • Insulator color: Blue

Fig. 6

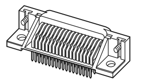

Right Angle PCB Mount: • Compatible with industry standard • Metal shell for EMI/RFI shielding • Insulator color: Blue

Fig.	No. of Contacts	Type	Digi-Key Part No.	Price Each			NorComp Part No.
				1	10	100	
1	14	Male	T1501A-ND◆	4.32	2.96	2.36	110-014-103L001
	36	Male	T1503A-ND◆	4.38	3.00	2.39	110-036-103L001
	50	Male	T1504A-ND◆	6.54	4.79	3.97	110-050-103L001
2	14	Female	T1507A-ND◆	4.89	3.35	2.67	110-014-203L001
	36	Female	T1509A-ND◆	5.52	3.78	3.01	110-036-203L001
	50	Female	T1510A-ND◆	7.20	5.27	4.37	110-050-203L001
3	14	Male	1014MA-ND◆	3.00	2.06	1.64	111-014-103L001
	24	Male	1024MA-ND◆	3.21	2.20	1.75	111-024-103L001
	36	Male	1036MA-ND◆	3.12	2.14	1.70	111-036-103L001
	50	Male	1050MA-ND◆	4.71	3.23	2.57	111-050-103L001
4	14	Female	1014FA-ND◆	3.15	2.16	1.72	111-014-203L001
	24	Female	1024F-ND	2.88	2.21	2.12	111-024-203-001
	24	Female	1024FA-ND◆	5.16	3.54	2.81	111-024-203L001
	36	Female	1036FA-ND◆	3.72	2.55	2.03	111-036-203L001
	50	Female	1050FA-ND◆	5.88	4.03	3.21	111-050-203L001
5	14	Male	1014PMA-ND◆	3.72	2.55	2.03	111-014-113L001
	24	Male	1024PM-ND	3.01	2.31	2.21	111-024-113-001
	24	Male	1024PMA-ND◆	5.64	3.86	3.07	111-024-113L001
	36	Male	1036PM-ND	3.25	2.50	2.39	111-036-113-001
	36	Male	1036PMA-ND◆	6.06	4.15	3.30	111-036-113L001
	50	Male	1050PMA-ND◆	6.81	4.66	3.71	111-050-113L001
	14	Female	1014PFA-ND◆	3.42	2.34	1.87	111-014-213L001
	24	Female	1024PF-ND	1.98	1.52	1.46	111-024-213-001
	24	Female	1024PFA-ND◆	3.72	2.55	2.03	111-024-213L001
	36	Female	1036PFA-ND◆	5.46	3.74	2.98	111-036-213L001
	50	Female	1050PFA-ND◆	7.12	5.21	4.32	111-050-213L001
6	14	Male	1014RM-ND	2.12	1.63	1.56	112-014-113-001
	14	Male	1014RMA-ND◆	6.51	4.46	3.55	112-014-113R001
	24	Male	1024RMA-ND◆	5.70	3.91	3.11	112-024-113R001
	36	Male	1036RMA-ND◆	6.60	4.52	3.60	112-036-113R001
	50	Male	1050RMA-ND◆	6.72	4.92	4.07	112-050-113R001
	14	Female	1014RF-ND	2.46	1.89	1.81	112-014-213-001
	14	Female	1014RFA-ND◆	6.66	4.56	3.63	112-014-213R001
	24	Female	1024RFA-ND◆	5.88	4.03	3.21	112-024-213R001
	36	Female	1036RFA-ND◆	5.82	3.99	3.17	112-036-213R001
	50	Female	1050RFA-ND◆	7.02	5.14	4.26	112-050-213R001

◆ ***RoHS Compliant***

CONEC®
TECHNOLOGY IN CONNECTORS™

D-Sub Connectors

RoHS COMPLIANT

The dimensions of **CONEC®** D-subminiature connectors are according to DIN 41652 and to MIL-C-24308. The Subminiature Connectors consist of a plug and socket connector and conform to IEC standard 48 B. These connectors are used in industrial control systems, computer environment and in telecommunication equipment. Precision screw machine contacts are gold plated over nickel. The product line is UL (E202784), CSA (LR 115000-1) and VDE (40000440) approved. The trapezoidal shaped shell is used for mechanical protection, electrical shielding and polarization. The CONEC connectors consist of plug and socket connectors with two or three rows. They are compatible and interchangeable with all D-Subminiature connectors on the market. **Technical Data:** • **Insulators:** Polyester GF UL 94 V-0 • **Contacts:** Copper Alloy • **Contact Finish:** Hard-gold-plated over nickel • **Shell:** Steel tin plated • **Working Voltage:** 125V (D-Subminiature Standard 9,15, 25, 37 and 50 position); 60V (D-Subminiature High Density 15, 26 and 44 position) • **Current Rating:** 7.5A UL (D-Subminiature Standard 9,15, 25, 37 and 50 position); 3.0A UL (D-Subminiature High Density 15, 26 and 44 position) • **Insulation Resistance:** 5G Ω • **Operating Temperature:** -55°C ~ 125°C

Fig. 1

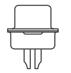

Fig. 2

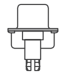

Fig. 3

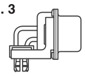

Fig. 4

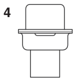

Fig. 5

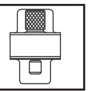

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
		Fig. 1 — Solder Cup				
9	Male	626-1026-ND	3.09	2.06	1.65	163A11069X
9	Female	626-1031-ND	3.57	2.38	1.91	164A10019X
15	Male	626-1027-ND	3.75	2.50	2.00	163A11079X
15	Female	626-1032-ND	4.77	3.18	2.55	164A10029X
25	Male	626-1028-ND	4.71	3.14	2.52	163A11089X
25	Female	626-1033-ND	6.63	4.42	3.54	164A10039X
37	Male	626-1029-ND	6.90	4.60	3.68	163A11099X
37	Female	626-1034-ND	7.88	5.83	4.73	164A10049X
50	Male	626-1030-ND	6.80	5.04	4.08	163A11109X
50	Female	626-1035-ND	10.33	7.65	6.20	164A10059X
		Fig. 1 — Solder Cup with 4-40 Insert				
9	Male	626-1036-ND	3.39	2.26	1.81	163A11269X
9	Female	626-1041-ND	4.08	2.72	2.18	164A10219X
15	Male	626-1037-ND	4.29	2.86	2.29	163A11279X
15	Female	626-1042-ND	5.31	3.54	2.84	164A10229X
25	Male	626-1038-ND	4.68	3.12	2.50	163A11289X
25	Female	626-1043-ND	7.20	4.80	3.84	164A10239X
37	Male	626-1039-ND	7.44	4.96	3.97	163A11299X
37	Female	626-1044-ND	8.30	6.15	4.98	164A10249X
		Fig. 1 — Solder Cup High Density with 4-40 Insert				
15	Male	626-1046-ND	5.64	3.76	3.01	163A16649X
15	Female	626-1049-ND	7.32	4.88	3.91	164A17059X
26	Male	626-1047-ND	7.28	5.39	4.37	163A16659X
26	Female	626-1050-ND	9.50	7.03	5.70	164A17069X
44	Male	626-1048-ND	10.60	7.85	6.36	163A16669X
44	Female	626-1051-ND	12.67	9.86	8.17	164A17079X
		Fig. 2 — PC Mount Vertical with 4-40 Spacer Clip				
9	Female	626-1052-ND	5.58	3.72	2.98	164A16569X
15	Female	626-1053-ND	6.66	4.44	3.56	164A16579X
25	Female	626-1054-ND	6.73	4.98	4.04	164A16589X
		Fig. 3 — PC Mount Right Angle with 4-40 Insert				
9	Male	626-1055-ND	7.15	5.30	4.29	163A17529X
9	Female	626-1058-ND	7.45	5.52	4.47	164A17939X
15	Male	626-1056-ND	9.00	6.66	5.40	163A17539X
15	Female	626-1059-ND	9.55	7.07	5.73	164A17949X
25	Male	626-1057-ND	11.80	8.74	7.08	163A17549X
25	Female	626-1060-ND	11.30	8.79	7.28	164A17959X
		Fig. 3 — High Density PC Mount Right Angle with 4-40 Insert				
15	Male	626-1061-ND	11.77	9.16	7.59	163A17769X
15	Female	626-1062-ND	13.77	10.71	8.88	164A18179X
		Fig. 4 — Crimp Shell				
9	Male	626-1063-ND	1.92	1.20	.89	163X10019X
9	Female	626-1068-ND	1.96	1.26	.98	164X11769X
15	Male	626-1064-ND	2.00	1.29	1.00	163X10029X
15	Female	626-1069-ND	2.21	1.42	1.11	164X11779X
25	Male	626-1065-ND	1.75	1.13	.88	163X10039X
25	Female	626-1070-ND	2.31	1.49	1.16	164X11789X
37	Male	626-1066-ND	2.91	1.87	1.46	163X10049X
37	Female	626-1071-ND	3.15	2.03	1.58	164X11799X
50	Male	626-1067-ND	3.54	2.36	1.89	163X10059X
50	Female	626-1072-ND	3.54	2.36	1.89	164X11809X

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
		Fig. 4 — High Density Crimp Shell				
15	Male	626-1077-ND	3.42	2.28	1.83	163X10169X
15	Female	626-1080-ND	4.32	2.88	2.31	164X11949X
26	Male	626-1078-ND	4.32	2.88	2.31	163X10179X
26	Female	626-1081-ND	4.86	3.24	2.60	164X11959X
44	Male	626-1079-ND	3.29	2.12	1.65	163X10189X
44	Female	626-1082-ND	4.14	2.76	2.21	164X11969X

AWG	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
		Standard Density Crimp Contacts				
20 ~ 24	Male	626-1073-ND	.52	.30	.20	161A18299X
	Female	626-1075-ND	1.08	.68	.50	162A18709X
24 ~ 28	Male	626-1074-ND	.57	.33	.22	161A18309X
	Female	626-1076-ND	1.16	.73	.54	162A18719X
		High Density Crimp Contacts				
22	Male	626-1083-ND	.37	.21	.14	161A18009X
	Female	626-1084-ND	.55	.32	.21	162A18419X

Tools

Description	Digi-Key Part No.	Price Each	CONEC Part No.
Hand Crimp Tool	626-1283-ND	501.47	360X10329X
Insert/Positioner, Standard Density	626-1285-ND	92.31	360X20069X
Insert/Positioner, High Density	626-1284-ND	106.14	360X10629X
Extraction Tool for Std. Density Crimp Contacts	626-1282-ND	14.81	360X12009X
Extraction Tool for High Density Crimp Contacts	626-1286-ND	141.84	360X10339X

Filtered D-Sub Connectors

CONEC® Filter Connectors are the ideal solution to reduce or eliminate electro magnetic interference (EMI/RFI). The complete series are UL (E 202784 CSA (LR 115000-1 and VDE (40000441) approved. **Technical Data:** • **Insulators:** Polyester GF UL 94 V-0 • **Contacts:** Copper Alloy • **Contact Finish:** Gold over nickel, solder area tin plated • **Shell:** Steel tin plated • **Insulation Resistance:** ≥1GΩ @ 100 VDC • **Current Rating:** 5.0A (20°C), Standard D-Sub 9, 15 and 25 positions; 3.0A (20°C), High Density D-Sub 15 positions • **Temperature Range Working:** -25°C ~ 105°C, Standard D-Sub 9, 15 and 25 positions; -25°C ~ 85°C, High Density D-Sub 15 positions

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
		Fig. 1 — Solder Cup				
9	Male	626-1004-ND	10.18	7.53	6.11	241A26960X
9	Female	626-1007-ND	10.48	7.76	6.29	242A26860X
15	Male	626-1005-ND	12.38	9.63	7.98	241A26970X
15	Female	626-1008-ND	13.07	10.17	8.43	242A26870X
25	Male	626-1006-ND	16.04	12.48	10.34	241A26980X
25	Female	626-1009-ND	17.10	13.30	11.02	242A26880X
		Fig. 1 — Solder Cup with 4-40 Insert				
9	Male	626-1010-ND	11.50	8.95	7.41	241A27120X
9	Female	626-1013-ND	11.75	9.14	7.57	242A27020X
15	Male	626-1011-ND	14.87	11.57	9.59	241A27130X
15	Female	626-1014-ND	15.59	12.13	10.05	242A27030X
25	Male	626-1012-ND	18.88	14.69	12.17	241A27140X
25	Female	626-1015-ND	19.87	15.46	12.81	242A27040X
		Fig. 2 — PCB Mount Vertical with 4-40 Spacer Clip				
9	Female	626-1016-ND	12.26	9.54	7.91	242A15030X
15	Female	626-1017-ND	15.35	11.94	9.89	242A15040X
25	Female	626-1018-ND	22.94	18.36	16.06	242A15050X
		Fig. 3 — PCB Mount Right Angle with 4-40 Insert				
9	Male	626-1020-ND	12.76	9.93	8.23	241A16060X
9	Female	626-1023-ND	14.99	11.66	9.66	242A17660X
15	Male	626-1021-ND	15.57	12.11	10.04	241A16070X
15	Female	626-1024-ND	17.39	13.53	11.21	242A17670X
25	Male	626-1022-ND	20.30	15.79	13.08	241A16080X
25	Female	626-1025-ND	20.66	16.53	14.47	242A17680X
		Fig. 5 — D-Sub C-Filter Adapter				
9	—	626-1000-ND	13.07	10.17	8.43	243A10050X
15	—	626-1001-ND	15.46	12.03	9.97	243A10060X
25	—	626-1002-ND	19.76	15.37	12.74	243A10070X

Hardware

RoHS COMPLIANT

Fig. 1

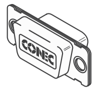

Fig. 2

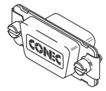

Fig. 3

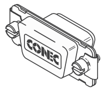

Fig. 4

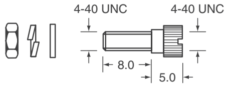

Fig. 5

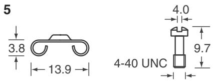

Fig. 6

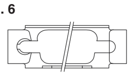

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
		D-Sub Covers				
1	Male, 9-Pos.	626-1241-ND	1.80	1.13	.84	165X13129X
	Female, 9-Pos.	626-1238-ND	1.88	1.18	.87	165X12969X
	Male, 15-Pos.	626-1242-ND	1.80	1.13	.84	165X13139X
	Female, 15-Pos.	626-1239-ND	1.88	1.18	.87	165X12979X
	Male, 25-Pos.	626-1243-ND	1.93	1.24	.97	165X13149X
	Female, 25-Pos.	626-1240-ND	1.84	1.15	.86	165X12989X
2	Male with Flange, 9-Pos.	626-1247-ND	2.63	1.69	1.32	165X16769X
	Female with Flange, 9-Pos.	626-1244-ND	2.70	1.74	1.35	165X16719X
	Male with Flange, 15-Pos.	626-1248-ND	2.94	1.89	1.47	165X16779X
	Female with Flange, 15-Pos.	626-1245-ND	3.01	1.94	1.51	165X16729X
	Male with Flange, 25-Pos.	626-1249-ND	2.94	1.89	1.47	165X16789X
	Female with Flange, 25-Pos.	626-1246-ND	2.66	1.71	1.33	165X16739X
		Hood - Water Resistant, Shielded for EMI/RFI				
3	Male with Flange, 9-Pos.	626-1253-ND	6.40	4.74	3.84	165X14769X
	Female with Flange, 9-Pos.	626-1250-ND	7.30	5.41	4.38	165X14719X
	Male with Flange, 15-Pos.	626-1254-ND	7.41	4.94	3.96	165X14779X
	Female with Flange, 15-Pos.	626-1251-ND	7.15	5.30	4.29	165X14729X

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
3	Male with Flange, 25-Pos.	626-1255-ND	6.30	4.67	3.78	165X14789X
	Female with Flange, 25-Pos.	626-1252-ND	6.93	5.13	4.16	165X14739X
		Screw Locking (2 Screws, 2 Washers, 2 Spring Rings, and 2 Nuts)				
4	Screw Locking 4-40 UNC/13mm	626-1256-ND	1.24	.72	.48	160X10359X
	Screw Locking Bolt Set Packed	626-1257-ND	2.87	1.85	1.44	160X10329X
		D-Sub Clamp (2 Clamps, 2 Screws)				
5	Steel Nickel Plated	626-1258-ND	1.28	.80	.60	160X10259X
		Slide Lock Kits				
6	9-Pos. (1 Frame, 2 Self-tapping Screws)	626-1259-ND	2.31	1.49	1.16	160X10159X
	15-Pos. (1 Frame, 2 Self-tapping Screws)	626-1260-ND	2.84	1.83	1.42	160X10169X
	9-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1262-ND	2.70	1.74	1.35	160X10689X
	15-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1263-ND	2.66	1.71	1.33	160X10699X
	25-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1264-ND	2.66	1.71	1.33	160X10709X
—	Slide Lock Bolt (set of 2)	626-1265-ND	1.39	.81	.54	16-000640
	Slide Lock, Nickel Plated	626-1221-ND	.88	.51	.34	165X10119X

TECHNOLOGY IN CONNECTORS™

Combination D-Sub Connectors

Combination D-Subminiature connectors are available in a variety of applications. The design allows a combination of signal, high current, high voltage and coaxial contacts. **Features:** • Saves space • Cost factor, one item as compared to several different connectors • Contacts are screw machine type • The complete program is UL (E228329, UL 1977), UL (E202784, UL 1863), CSA (LR 115000-1) and VDE (40000440) approved **Specifications:** • Insulator: PBTP, GV (ULV94V-0) • Shell: Steel • Shell Plating: Tin Plated • Contact Plating: Gold over Nickel • Contact Material: Copper Alloy • Mating cycles: 500

Contact Arrangement

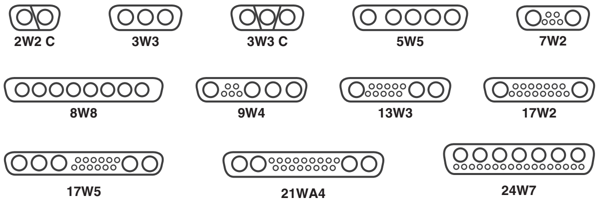

Fig. 1

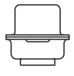

Fig. 2

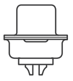

Fig. 3

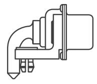

Contact Arrangement	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Crimp Style (Power Contacts Sold Separately)						
2W2 C	Male	626-1094-ND	3.36	2.16	1.68	302W2CPXX99A10X
2W2 C	Female	626-1093-ND	3.43	2.21	1.72	302W2CSXX99A10X
2W2 C	Female	626-1095-ND	4.23	2.82	2.26	302W2CSXX99A30X
3W3	Male	626-1102-ND	3.29	2.12	1.65	3003W3PXX99A10X
3W3	Female	626-1101-ND	3.06	2.04	1.64	3003W3SXX99A10X
3W3	Female	626-1103-ND	4.41	2.94	2.36	3003W3SXX99A30X
3W3 C	Male	626-1098-ND	3.06	2.04	1.64	303W3CPXX99A10X
3W3 C	Female	626-1097-ND	3.50	2.25	1.75	303W3CSXX99A10X
3W3 C	Female	626-1099-ND	4.35	2.90	2.32	303W3CSXX99A30X
5W5	Male	626-1106-ND	3.29	2.12	1.65	3005W5PXX99A10X
5W5	Female	626-1105-ND	3.39	2.26	1.81	3005W5SXX99A10X
5W5	Female	626-1107-ND	4.74	3.16	2.53	3005W5SXX99A30X
8W8	Male	626-1110-ND	3.69	2.46	1.97	3008W8PXX99A10X
8W8	Female	626-1109-ND	3.90	2.60	2.08	3008W8SXX99A10X
8W8	Female	626-1111-ND	5.16	3.44	2.76	3008W8SXX99A30X
Fig. 2 — Solder Cup (Power Contacts Sold Separately)						
7W2	Male	626-1114-ND	5.04	3.36	2.69	3007W2PCM99A10X
7W2	Female	626-1113-ND	6.51	4.34	3.48	3007W2SCM99A10X
9W4	Male	626-1118-ND	4.74	3.16	2.53	3009W4PCM99A10X
9W4	Female	626-1117-ND	6.72	4.48	3.59	3009W4SCM99A10X
13W3	Male	626-1126-ND	7.11	4.74	3.80	3013W3PCM99A10X
13W3	Female	626-1125-ND	8.35	6.18	5.01	3013W3SCM99A10X
17W2	Male	626-1122-ND	7.10	5.26	4.26	3017W2PCM99A10X
17W2	Female	626-1121-ND	10.70	7.92	6.42	3017W2SCM99A10X
17W5	Male	626-1130-ND	6.98	5.17	4.19	3017W5PCM99A10X
17W5	Female	626-1129-ND	9.60	7.11	5.76	3017W5SCM99A10X
21WA4	Male	626-1134-ND	10.73	7.94	6.44	321WA4PCM99A10X
21WA4	Female	626-1133-ND	12.45	9.22	7.47	321WA4SCM99A10X
24W7	Male	626-1138-ND	8.93	6.61	5.36	3024W7PCM99A10X
24W7	Female	626-1137-ND	11.25	8.75	7.25	3024W7SCM99A10X
Fig. 3 — PC Mount - Right Angle						
2W2 C	Female	626-1096-ND	12.03	8.90	7.22	302W2CSXX56N40X
3W3	Female	626-1104-ND	14.09	10.96	9.08	3003W3SXX56N40X
3W3 C	Female	626-1100-ND	13.64	10.61	8.79	303W3CSXX56N40X
5W5	Female	626-1108-ND	19.69	15.32	12.69	3005W5SXX56N40X
7W2	Female	626-1116-ND	18.74	14.58	12.08	3007W2SCT56N40X
8W8	Female	626-1112-ND	24.92	19.94	17.45	3008W8SXX56N40X
9W4	Female	626-1120-ND	20.36	15.84	13.13	3009W4SCT56N40X
17W2	Female	626-1124-ND	21.87	17.01	14.10	3017W2SCT56N40X
17W5	Female	626-1132-ND	25.24	20.20	17.67	3017W5SCT56N40X
21WA4	Female	626-1136-ND	25.86	20.69	18.11	321WA4SCT56N40X

Wire Size (AWG)	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Power Contacts						
Solder Cup						
8 ~ 10	Pin	626-1143-ND	2.56	1.65	1.28	131C10049X
8 ~ 10	Socket	626-1147-ND	3.01	1.94	1.51	132C10049X
10 ~ 12	Pin	626-1142-ND	2.42	1.56	1.21	131C10039X
10 ~ 12	Socket	626-1146-ND	3.01	1.94	1.51	132C10039X
12 ~ 14	Pin	626-1141-ND	2.63	1.69	1.32	131C10029X
12 ~ 14	Socket	626-1145-ND	3.47	2.23	1.74	132C10029X
16 ~ 20	Pin	626-1140-ND	3.01	1.94	1.51	131C10019X
16 ~ 20	Socket	626-1144-ND	3.01	1.94	1.51	132C10019X
Crimp						
8 ~ 10	Pin	626-1151-ND	2.59	1.67	1.30	131C11049X
8 ~ 10	Socket	626-1155-ND	3.51	2.34	1.88	132C11049X
10 ~ 12	Pin	626-1150-ND	2.49	1.60	1.25	131C11039X
10 ~ 12	Socket	626-1154-ND	3.01	1.94	1.51	132C11039X
12 ~ 14	Pin	626-1149-ND	2.49	1.60	1.25	131C11029X
12 ~ 14	Socket	626-1153-ND	2.87	1.85	1.44	132C11029X
16 ~ 20	Pin	626-1148-ND	2.42	1.56	1.21	131C11019X
16 ~ 20	Socket	626-1152-ND	2.98	1.92	1.49	132C11019X
50Ω – Coaxial						
—	Pin	626-1156-ND	5.94	3.96	3.17	131J20019X
—	Socket	626-1160-ND	6.21	4.14	3.32	132J20019X
—	Pin	626-1157-ND	6.87	4.58	3.67	131J20029X
—	Socket	626-1161-ND	7.23	4.82	3.86	132J20029X
—	Pin	626-1158-ND	6.60	4.40	3.52	131J20049X
—	Socket	626-1162-ND	7.38	4.92	3.94	132J20049X
75Ω – Coaxial						
—	Pin	626-1159-ND	6.93	4.62	3.70	131J30019X
—	Socket	626-1163-ND	6.72	4.48	3.59	132J30019X

Tools

Description	Digi-Key Part No.	Price Each	CONEC Part No.
Hand Crimp Tool for High Power Contacts	626-1287-ND	597.53	360X10409X
Insert Tool for High Power Contacts	626-1288-ND	243.39	360X20029X
Hand Crimp Tool for Coaxial Contacts (Outer Conductor)	626-1290-ND	383.27	360X10519X
Hex Die Tool Insert	626-1291-ND†	220.34	360X11019X
Hex Die Tool Insert	626-1292-ND†	209.17	360X11029X
Extraction Tool for Coaxial, High Power and Voltage Contacts	626-1289-ND	122.71	360X10319X

† Choice based on contact part number

D-Sub Gender Changers

Fig. 1

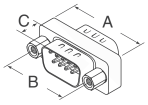

Fig. 2

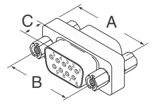

Fig.	No. of Pos.	Type	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Standard Density										
1	9	M-M	31.19	25.00	6.12	626-1085-ND	3.03	2.02	1.62	320X12509X
	15	M-M	39.52	33.30	6.12	626-1086-ND	3.09	2.06	1.65	320X12529X
	25	M-M	53.42	47.04	5.99	626-1087-ND	4.32	2.88	2.31	320X10549X
	37	M-M	69.70	63.50	5.99	626-1088-ND	5.67	3.78	3.03	320X12549X
2	9	F-F	31.19	25.00	6.00	626-1089-ND	3.43	2.21	1.72	320X12519X
	15	F-F	39.52	33.30	6.00	626-1090-ND	3.36	2.16	1.68	320X12539X
	25	F-F	53.42	47.04	6.00	626-1091-ND	4.44	2.96	2.37	320X10559X
	37	F-F	69.70	63.50	6.00	626-1092-ND	5.97	3.98	3.19	320X12559X
High Density										
1	15	M-M	30.86	25.00	6.10	626-1297-ND	4.68	3.12	2.50	DAH1PPAAR04A
2	15	F-F	30.86	25.00	5.80	626-1296-ND	5.01	3.34	2.68	DAH1SSAAX01A

Water Resistant D-Sub Connectors

Electronic equipment that is used in harsh outdoor or indoor environments, require connectors that can withstand moisture, dust and other elements that cause connectors to fail. CONEC® has developed the new water resistant connector system. The water resistant connectors meet IEC 529-IP67 specifications. This series of water resistant connectors can be successfully applied in applications where moisture, high humidity, water and dust are present. CONEC applies special sealing procedures to seal the connectors. The program is UL (E202784) and CSA (LR115000-1) approved.

Fig. 1

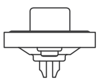

Fig. 2

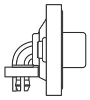

Technical Data:
• Insulators Polyester GF UL 94 V0 • Contacts Copper Alloy
• Contact Finish Hard Gold Plated over Nickel • Shell Brass/Steel • Shell Plating Tin Plated • Working Voltage 125V • Current Rating 5A (20°) • Insulation Resistance ≥5 GΩ • Operating Temperature -40°C ~ 105°C
• Degree of Protection Requirements according to ICE 529-IP 67

Fig.	No. of Positions	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Solder Cup							
1	9	Male	626-1164-ND	17.19	13.37	11.08	6STD09PCM99B30X
	9	Female	626-1167-ND	15.55	12.10	10.02	6STD09SCM99B30X
	15	Male	626-1165-ND	19.94	15.51	12.85	6STD15PCM99B30X
	15	Female	626-1168-ND	18.97	14.76	12.23	6STD15SCM99B30X
	25	Male	626-1166-ND	23.63	18.38	15.23	6STD25PCM99B30X
	25	Female	626-1169-ND	20.41	15.88	13.16	6STD25SCM99B30X
PC Mount - Right Angle							
2	9	Female	626-1170-ND	18.11	14.09	11.68	6STD09SCT99S40X
	15	Female	626-1171-ND	20.59	16.02	13.27	6STD15SCT99S40X
	25	Female	626-1172-ND	26.26	21.01	18.39	6STD25SCT99S40X

Screen Caps with Lanyards and Captive Screws

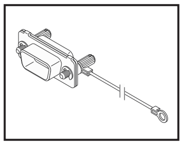

Features: • Durable 4.25" long free rotating metal lanyard • For both male and female connectors • Water resistant (IP67) and standard versions • EMI/RFI protection

Technical Data: • Metal shells with tin plating • Lanyard stainless steel wire rope (4.25" Long) • Thumbscrews steel nickel plate or stainless steel (IP67 versions only) • Maximum torque value for threads 6 in LB • TPE Ethylene Propylene Thermoplastic Rubber Seal (IP67 versions only)

Number of Positions	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Standard						
9	Male	626-1344-ND	8.10	5.84	4.86	16-000380
15	Male	626-1345-ND	8.14	6.11	5.09	16-000390
25	Male	626-1346-ND	8.50	6.38	5.31	16-000400
9	Female	626-1347-ND	7.87	5.91	4.92	16-000280
15	Female	626-1348-ND	8.42	6.32	5.27	16-000290
25	Female	626-1349-ND	9.02	6.77	5.64	16-000300
Water Resistant						
9	Male	626-1338-ND	9.66	7.35	6.30	15-000110
15	Male	626-1339-ND	9.94	7.56	6.48	15-000120
25	Male	626-1340-ND	10.40	7.91	6.78	15-000130
9	Female	626-1341-ND	9.75	7.42	6.36	15-000010
15	Female	626-1342-ND	10.35	7.88	6.75	15-000020
25	Female	626-1343-ND	11.09	8.44	7.23	15-000030

CONEC® D-Sub Backshells

TECHNOLOGY IN CONNECTORS™

The increasing market and the many different applications require a large selection of hoods. **CONEC**® manufactures one of the largest selection of products in the industry. **CONEC** hoods are also UL (E202784) and CSA (LR 115000-1) approved.

Metal Hood with Straight Exit: EMI/RFI Shielding and Jack Screws

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL 94 V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions – mm		
	A	B	C
9	31.0	25.0	40.7
15	39.5	33.3	42.9
25	53.4	47.0	49.7
37	70.9	63.5	54.6

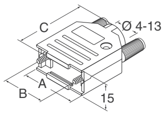

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Metal-lized	626-1176-ND	6.38	4.72	3.83	165X02609XE
15		626-1177-ND	7.85	5.81	4.71	165X02619XE
25		626-1178-ND	7.95	5.89	4.77	165X02629XE
37		626-1179-ND	10.45	7.74	6.27	165X02639XE

45° Metallized with Side Exit: EMI/RFI Shielding with Jack Screws

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL 94 V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions – mm		
	A	B	C
9	31.0	25.0	37.2
15	39.5	33.3	41.2
25	53.2	47.0	41.2
37	69.7	63.5	41.2

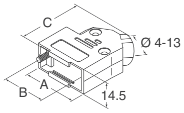

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45° Metal-lized	626-1180-ND	6.38	4.72	3.83	165X02689XE
15		626-1181-ND	6.48	4.80	3.89	165X02699XE
25		626-1182-ND	6.55	4.85	3.93	165X02709XE

Plastic Hood 45° Black: Shielded Version with Metal Screw

Specifications: • **Hood:** PC GF 20 UL 94 V-0; Black • **Full Metal Screw:** Ms 58 Hard, Nickel Plated • **Cable Clamp**: Cu Ni 18 An 20 • **Screw for Cable Clamp:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C±0.2	D	øE
9	31.20	25.0	40.95	15.0	8.0
15	39.52	33.3	41.95	15.0	9.0

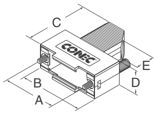

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45°	626-1184-ND	8.95	6.63	5.37	165X00779XE
15	45°	626-1185-ND	11.43	8.46	6.86	165X00789XE

Plastic Hood with Straight Exit: Straight Cable Exit with Jack Screws

Specifications: **Black:** • **Hood:** Polyamid + GF/Black • **Jackscrew:** Brass, nickel plated • **Nut:** Brass, Nickel Plated • **Strain Relief:** Steel • **Pan-Head Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Brass, Nickel Plated **Metallized:** • **Hood:** ABS V0. Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Jack Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	E
9	34.0	25.0	27.75	14.5	8.5
15	42.3	33.3	39.75	14.5	10.0
25	56.0	47.0	39.75	14.5	10.5
37	72.5	63.5	39.75	14.5	10.5
50	70.0	61.1	50.00	21.0	10.5

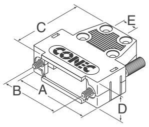

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1187-ND	7.20	4.80	3.84	165X10139XE
15		626-1188-ND	7.20	4.80	3.84	165X10149XE
25		626-1189-ND	6.53	4.83	3.92	165X10159XE
37		626-1190-ND	7.28	5.39	4.37	165X10169XE
50		626-1191-ND	11.90	9.26	7.68	165X10179XE
9	Straight Metal-lized	626-1192-ND	9.25	6.85	5.55	165X10909XE
15		626-1193-ND	9.70	7.18	5.82	165X10919XE
25		626-1194-ND	10.20	7.55	6.12	165X10929XE

Plastic Hood Straight Black: Big space inside, Recommended for Combination D-subs

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated

Specifications: • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.9	25.0	41.8	16.3	11.0
15	41.2	33.3	47.8	16.3	11.0
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

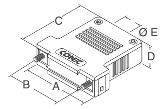

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1195-ND	6.27	4.18	3.35	165X13369XE
15		626-1196-ND	6.60	4.40	3.52	165X13379XE
25		626-1197-ND	6.78	4.52	3.62	165X13389XE
37		626-1198-ND	6.78	5.02	4.07	165X13399XE
50		626-1199-ND	6.78	5.02	4.07	165X13409XE

Plastic Hood, 90° Black: With side cable exit, big space inside, Recommended for Combination D-Subs

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated

Specifications: • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.9	25.0	41.8	16.3	5.6
15	41.2	33.3	47.8	16.3	8.6
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

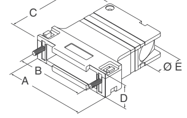

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	90° Black	626-1200-ND	6.27	4.18	3.35	165X13419XE
15		626-1201-ND	6.60	4.40	3.52	165X13429XE
25		626-1202-ND	6.78	4.52	3.62	165X13439XE
37		626-1203-ND	6.78	5.02	4.07	165X13449XE
50		626-1204-ND	6.78	5.02	4.07	165X13459XE

Plastic Hood, Black: Top and Side Exit with Jack Screws or Slide lock

Dual Exit with Jack Screws: • **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

Dual Exit with Side-lock: • **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Spring:** Steel, Nickel Plated • **Side Lock:** Steel, Nickel Plated • **Screws**: Steel, Nickel Plated

Dual Exit, Metallized with Jack Screws: • **Hood + Cover:** ABS UL 94 V-0, Metallized • **Blind Plug:** ABS UL 94 V-0, Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.0	25.0	39.7	15.5	6.3
15	40.0	33.3	41.2	15.5	8.0
25	54.2	47.0	45.2	15.5	10.5
37	70.6	63.5	50.2	15.5	11.5

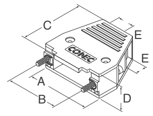

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Dual Exit Plastic Black	626-1209-ND	5.64	3.76	3.01	165X11239XE
15		626-1210-ND	5.43	3.62	2.90	165X11249XE
25		626-1211-ND	6.51	4.34	3.48	165X11259XE
37		626-1212-ND	7.26	4.84	3.88	165X11269XE
9	Dual Exit with Side-lock Black	626-1213-ND	7.25	5.37	4.35	165X11279XE
15		626-1214-ND	7.38	5.46	4.43	165X11289XE
25		626-1215-ND	7.85	5.81	4.71	165X11299XE
37		626-1216-ND	10.35	7.66	6.21	165X11309XE

Plastic Hood Gray: 9-Position with top cable exit, 15-50 Positions with side cable exit.

Specifications: • **Hood:** PC UL 94 V-1, Gray • **Hood Plug:** PC UL 94 V-1, Gray • **Jackscrew:** Brass, Nickel Plated • **Screw for Strain Relief:** Steel, Nickel Plated • **Cover Screw:** Steel, Nickel Plated • **Strain Relief:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	31.2	25.0	35.0	15.6	8.0
15	39.5	33.3	40.2	15.6	8.0
25	53.2	47.0	45.4	15.6	10.0
37	69.7	63.5	45.4	15.6	10.0

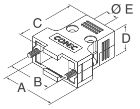

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Top Exit Gray	626-1205-ND	4.53	3.02	2.42	165X11869XE
15	Dual Exit Gray	626-1206-ND	4.32	2.88	2.31	165X11879XE
25		626-1207-ND	5.43	3.62	2.90	165X11889XE

One Piece Plastic Hood: with Straight Entry

No. of Pins	Dimensions – mm			
	A	B	C	D
9	30.9	25.0	25.4	12.7
15	39.3	33.3	25.4	12.7
25	53.2	47.0	31.7	12.7
50	67.1	61.1	38.1	15.5

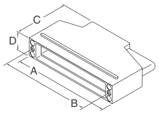

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Entry Black	626-1225-ND	5.22	3.48	2.79	165X10389XE
15		626-1226-ND	5.22	3.48	2.79	165X10399XE
25		626-1227-ND	5.25	3.50	2.80	165X10409XE
50		626-1229-ND	7.29	4.86	3.89	165X10429XE

One Piece Plastic Hood: with Side Entry

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	30.9	25.0	25.4	12.7	7.1
15	39.3	33.3	25.4	12.7	9.1
25	53.2	47.0	31.7	12.7	12.5 x 9.1*
37	69.4	63.5	38.1	12.7	17.6 x 9.1*
50	67.1	61.1	38.1	15.5	18.6 x 11.9*

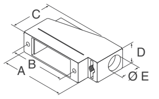

* cable entry is oval

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Side Entry Black	626-1230-ND	4.80	3.20	2.56	165X10439XE
15		626-1231-ND	5.37	3.58	2.87	165X10449XE
25		626-1232-ND	5.25	3.50	2.80	165X10459XE
37		626-1233-ND	6.66	4.44	3.56	165X10469XE
50		626-1234-ND	5.43	3.62	2.90	165X10479XE

Plastic Hoods

Fig. 1

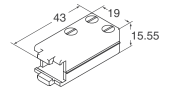

Fig. 2

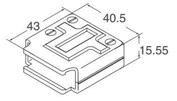

Fig. 3

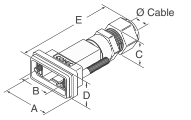

No. of Pins	Shell-size	Dimensions – mm					
		A	B	C	D	E	øCable
9	1	40.76	25.00	22.00	22.00	81.20	5-10
15	2	49.06	33.30	24.00	22.00	83.20	6-12
25	3	62.80	47.04	24.00	22.00	91.70	6-12

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
1	9	DL Entry	626-1235-ND	3.40	2.19	1.70	165X13219XE
2	25	Black	626-1236-ND	3.33	2.14	1.67	165X13239XE
Water Resistant Hoods							
3	9	Black	626-1173-ND‡	19.26	14.98	12.42	165X14819XE
	15	Black	626-1174-ND‡	18.25	14.20	11.76	165X14829XE
	25	Black	626-1175-ND‡	18.81	14.63	12.13	165X14839XE

‡ Tool required for assembly

Amphenol® Commercial Products Harsh Environment Connectors

Fig. 1

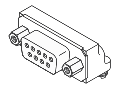

Fig. 2

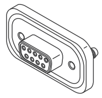

Fig. 3

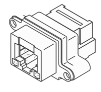

Fig. 4

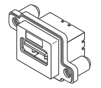

Fig. 5

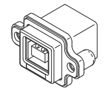

Fig. 6

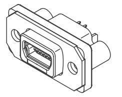

Fig. 7

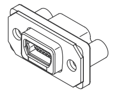

Fig. 8

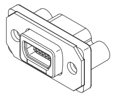

Fig.	Mounting Type	Description	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
D-Subs							
1	PCB	Receptacle	MDB-E09SA-700-ND	10.98	10.16	9.12	MDB-E09SA-700
—	PCB	Receptacle with Dust Cap	MDB-E09SA-760-ND	14.74	13.64	12.24	MDB-E09SA-760
—	PCB	Plug with Dust Cap	MDB-E09PA-760-ND	10.36	9.59	8.60	MDB-E09PA-760
2	Panel Mt	Plug	MDBA26PE860-ND	23.79	23.00	21.42	MDBA26PE860
2	Panel Mt	Rugged/End	MDBE09PE860-ND	13.33	12.55	11.37	MDBE09PE860
2	Panel Mt	Receptacle	MDBE09SE860-ND	13.33	12.55	11.37	MDBE09SE860
RJ45 Jacks							
3	PCB	8 Position No LED	MRJ-5380-01-ND	10.10	9.22	7.91	MRJ-5380-01
3	PCB	8 Pos. Yellow/Green LED	MRJ-5381-01-ND	10.56	9.64	8.27	MRJ-5381-01
3	PCB	8 Pos. Green/Green LED	MRJ-5385-01-ND	10.79	9.85	8.45	MRJ-5385-01
3	R/A	8 Pos. With Cable Header	MRJ-5580-01-ND	18.44	17.83	16.60	MRJ-5580-01
3	R/A	8 Position Termination	MRJ-5780-01-ND	14.89	14.02	12.71	MRJ-5780-01
USB A Receptacles							
4	PCB R/A	Receptacle, Shielded	MUSB-A111-30-ND	10.10	9.22	7.91	MUSB-A111-30
4	R/A	With Cable Header, Shielded	MUSB-A211-30-ND	16.69	15.72	14.24	MUSB-A211-30
4	R/A	Standard, Shielded	MUSB-A311-30-ND	16.59	15.62	14.16	MUSB-A311-30
4	R/A	Standard, Unshielded	MUSB-A511-00-ND	9.43	8.61	7.38	MUSB-A511-00
Stacked USB Shielded A Receptacles							
4	R/A	Stacked	MUSB-C111-30-ND	9.34	8.53	7.31	MUSB-C111-30
4	R/A	Header	MUSB-C211-30-ND	15.06	14.56	13.56	MUSB-C211-30
4	R/A	Stacked	MUSB-C311-30-ND	16.66	15.68	14.21	MUSB-C311-30
Rugged/End USBs							
5	R/A	B	MUSBD11130-ND	8.86	8.09	6.93	MUSBD11130
6	Vertical	Mini B	MUSBB55104-ND	11.22	10.38	9.32	MUSBB55104
7	R/A	Mini B	MUSBB15134-ND	11.22	10.25	8.79	MUSBB15134
8	R/A	Mini AB	MUSBE15134-ND	11.04	10.08	8.64	MUSBE15134

D-Sub Connectors

Fig. 1

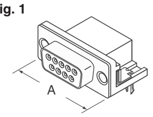

Fig. 2

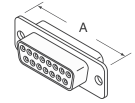

Fig. 3

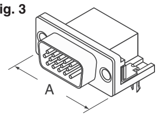

Fig. 4

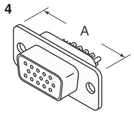

Fig. 5

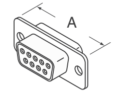

Fig. 6

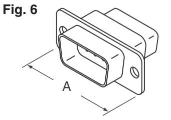

Fig. 7

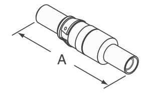

Fig. 8

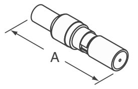

Fig. 9

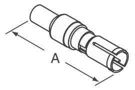

Fig. 10

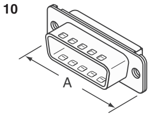

Fig. 11

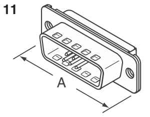

Fig. 12

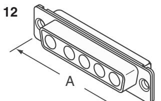

Fig. 13

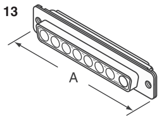

Fig.	No. of Pins	Type	Dim. A mm	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
PCB Mount								
1	9	Male	30.81	6E17C-009P-AJ-121-ND	4.41	3.65	3.04	6E17C-009P-AJ-121
	9	Female	30.81	6E17C-009S-AJ-120-ND	4.41	3.65	3.04	6E17C-009S-AJ-120
	15	Male	39.14	6E17C-015P-AJ-121-ND	5.25	4.35	3.62	6E17C-015P-AJ-121
	15	Female	39.14	6E17C-015S-AJ-120-ND	5.25	4.35	3.62	6E17C-015S-AJ-120
	25	Male	53.04	6E17C-025P-AJ-121-ND	6.58	5.57	4.81	6E17C-025P-AJ-121
	25	Female	53.04	6E17C-025S-AJ-120-ND	6.84	5.67	4.72	6E17C-025S-AJ-120
2	9	Male	30.81	L717DE09PU-ND	5.08	4.20	3.50	L717DE09PU
	9	Female	30.81	L77DE09SU-ND	6.06	5.02	4.18	L77DE09SU
	15	Male	39.14	L717DA15PU-ND	5.77	4.78	3.98	L717DA15PU
	15	Female	39.14	L77DA15SU-ND	7.25	6.14	5.31	L77DA15SU
	25	Male	53.04	L717DB25PU-ND	7.31	6.19	5.34	L717DB25PU
	25	Female	53.04	L77DB25SU-ND	9.64	8.80	7.55	L77DB25SU
	37	Male	69.32	L717DC37PU-ND	10.83	9.90	8.48	L717DC37PU
	37	Female	69.32	L77DC37SU-ND	12.34	11.42	10.25	L77DC37SU
PCB Mount, Right Angle - High Density								
3	15	Male	30.8	17EBH-015-P-AM-0-10-ND	7.44	6.30	5.44	17EBH-015-P-AM-0-10
	15	Female	30.8	17EBH-015-S-AM-0-10-ND	6.47	5.36	4.46	17EBH-015-S-AM-0-10
	26	Male	39.2	17EBH-026-P-AM-0-10-ND	9.15	8.36	7.17	17EBH-026-P-AM-0-10
	26	Female	39.2	17EBH-026-S-AM-0-10-ND	8.42	7.13	6.16	17EBH-026-S-AM-0-10
	44	Male	53.1	17EBH-044-P-AM-0-10-ND	11.22	10.38	9.32	17EBH-044-P-AM-0-10
	44	Female	53.1	17EBH-044-S-AM-0-10-ND	9.29	8.49	7.28	17EBH-044-S-AM-0-10
Solder Cup - High Density								
4	15	Male	30.8	17EHD-015-P-AA-0-00-ND	1.89	1.57	1.31	17EHD-015-P-AA-0-00
	15	Female	30.8	17EHD-015-S-AA-0-00-ND	1.98	1.65	1.38	17EHD-015-S-AA-0-00
	26	Male	39.2	17EHD-026-P-AA-0-00-ND	3.12	2.60	2.16	17EHD-026-P-AA-0-00
	26	Female	39.2	17EHD-026-S-AA-0-00-ND	2.93	2.43	2.02	17EHD-026-S-AA-0-00
	44	Male	53.1	17EHD-044-P-AA-0-00-ND	5.22	4.32	3.60	17EHD-044-P-AA-0-00
	44	Female	53.1	17EHD-044-S-AA-0-00-ND	5.22	4.32	3.60	17EHD-044-S-AA-0-00
Solder Cup - Machined Contacts								
5	9	Male	30.81	L717DE09P-ND	5.66	4.68	3.90	L717DE09P
	9	Female	30.81	L77DE09S-ND	7.05	5.84	4.86	L77DE09S
	15	Male	39.14	L717DA15P-ND	6.09	5.04	4.20	L717DA15P
	15	Female	39.14	L77DA15S-ND	6.86	5.81	5.02	L77DA15S
	25	Male	53.04	L717DB25P-ND	8.21	7.50	6.43	L717DB25P
	25	Female	53.04	L77DB25S-ND	10.24	9.35	8.01	L77DB25S
	37	Male	69.32	L717DC37P-ND	11.39	10.40	8.91	L717DC37P
	37	Female	69.32	L77DC37S-ND	13.08	12.10	10.86	L77DC37S
	50	Male	66.93	L717DD50P-ND	14.04	12.99	11.66	L717DD50P
	50	Female	66.93	L77DD50S-ND	16.47	15.51	14.06	L77DD50S
Solder Cup - Stamped and Formed Contacts								
5	9	Male	30.81	L717SDE09P-ND	.95	.74	.63	L717SDE09P
	9	Female	30.78	L77SDE09S-ND	1.03	.80	.68	L77SDE09S
	15	Male	39.24	L717SDA15P-ND	1.69	1.41	1.17	L717SDA15P
	15	Female	39.24	L77SDA15S-ND	1.29	1.01	.85	L77SDA15S
	25	Male	53.04	L717SDB25P-ND	1.37	1.07	.90	L717SDB25P
	25	Female	53.04	L77SDB25S-ND	1.44	1.13	.95	L77SDB25S
	37	Male	69.32	L717SDC37P-ND	2.08	1.73	1.44	L717SDC37P
	37	Female	69.32	L77SDC37S-ND	2.21	1.84	1.53	L77SDC37S
	50	Female	66.55	L77DD50SU-ND	15.10	14.21	12.88	L77DD50SU
Crimp								
6	9	Male	30.81	L777-RR-E-09-P-ND	.70	.49	.38	L777-RR-E-09-P
	9	Female	30.81	L177-RR-E-09-S-ND	.70	.49	.38	L177-RR-E-09-S
	15	Male	39.14	L777-RR-A-15-P-ND	.85	.60	.46	L777-RR-A-15-P
	15	Female	39.14	L177-RR-A-15-S-ND	.85	.60	.46	L177-RR-A-15-S
	25	Male	53.04	L777-RR-B-25-P-ND	1.03	.80	.68	L777-RR-B-25-P
	25	Female	53.04	L177-RR-B-25-S-ND	.90	.63	.49	L177-RR-B-25-S
	37	Male	69.32	L777-RR-C-37-P-ND	1.75	1.36	1.15	L777-RR-C-37-P
	37	Female	69.32	L177-RR-C-37-S-ND	1.75	1.36	1.15	L177-RR-C-37-S
	50	Male	66.93	L777-RR-D-50-P-ND	3.42	2.84	2.36	L777-RR-D-50-P
	50	Female	66.93	L177-RR-D-50-S-ND	3.42	2.84	2.36	L177-RR-D-50-S
7	—	Pin	21.80	L17DM537401-ND	9.45	8.64	7.40	L17DM537401
8	—	Socket	23.60	L17DM537405001-ND	11.39	10.40	8.91	L17DM537405001
D-Sub IDC								
6	9	Male	30.84	L17DEFRA09P-ND	2.05	1.71	1.42	L17DEFRA09P
	9	Female	30.84	L17DEFRA09S-ND	2.15	1.79	1.49	L17DEFRA09S
	15	Male	39.24	L17DAFRA15P-ND	2.47	2.06	1.71	L17DAFRA15P
	15	Female	39.24	L17DAFRA15S-ND	2.63	2.19	1.83	L17DAFRA15S
	25	Male	53.04	L17DBFRA25P-ND	2.93	2.43	2.03	L17DBFRA25P
	25	Female	53.04	L17DBFRA25S-ND	2.31	1.92	1.60	L17DBFRA25S
Contacts with Ferrules								
9	—	—	22.17	L17DM537421-ND	10.58	9.79	8.79	L17DM537421
	—	—	22.17	L17DM537425001-ND	10.58	9.79	8.79	L17DM537425001
Contacts								
9	—	Jack	22.00	L17DM537441-ND	4.32	3.58	2.98	L17DM537441
	—	Jack	22.00	L17DM53744201-ND	3.48	2.88	2.40	L17DM53744201
	—	Jack	22.00	L17DM537446-ND	4.21	3.48	2.90	L17DM537446
	—	Jack	22.00	L17DM537447-ND	3.86	3.20	2.66	L17DM537447
	—	Male	22.00	L17DM537451-ND	2.76	2.30	1.92	L17DM537451
	—	Male	22.00	L17DM537457-ND	3.09	2.57	2.14	L17DM537457
	—	Male	22.00	L17DM537458-ND	2.76	2.30	1.92	L17DM537458
10	3W3	Male	39.00	L717TWA3W3P-ND	3.31	2.74	2.28	L717TWA3W3P
11	7W2	Male	39.00	L717TWA7W2P-ND	5.97	4.95	4.12	L717TWA7W2P
12	5W5	Male	52.75	L717TWB5W5P-ND	2.99	2.48	2.06	L717TWB5W5P
13	8W8	Male	69.20	L717TWC8W8P-ND	3.16	2.62	2.18	L717TWC8W8P
—	9	Wire Wrap, 2 Winding	—	L77DE09SF179-ND	7.44	6.30	5.44	L77DE09SF179
—	9	Wire Wrap, 3 Winding	—	L77DE09SF179A-ND	8.89	7.53	6.50	L77DE09SF179A
11	7W2	Female	39.00	L77TWA7W2S-ND	6.99	5.92	5.12	L77TWA7W2S
12	5W5	Female	52.75	L77TWB5W5S-ND	3.28	2.72	2.26	L77TWB5W5S
—	21WA4	Female	—	L77TWC21WA4S-ND	12.72	11.77	10.56	L77TWC21WA4S
13	8W8	Female	69.20	L77TWC8W8S-ND	3.80	3.15	2.62	L77TWC8W8S

(Continued)

Amphenol® Commercial Products

D-Sub Connectors *(Cont.)*

Fig.	No. of Pins	Type	Dim. A mm	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Dust Covers								
—	9	Male	—	L17D4K63010-ND	1.29	1.01	.85	L17D4K63010
	9	Female	—	L17D4K63110-ND	1.37	1.07	.90	L17D4K63110
	15	Male	—	L17D4K63016-ND	1.41	1.10	.93	L17D4K63016
	15	Female	—	L17D4K63116-ND	1.37	1.07	.90	L17D4K63116
	25	Male	—	L17D4K63026-ND	1.48	1.16	.98	L17D4K63026
Accessories								
—		Spring Latch		L17529-ND	5.34	4.42	3.68	L17529
		Screw Lock		L17D204182TX-ND	6.76	5.60	4.66	L17D204182TX
		Screw Lock		L17D20419EX-ND	7.19	5.96	4.96	L17D20419EX

No. of Pins	Material	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Backshells						
9	Die Cast	17E-1657-09-ND	6.70	5.55	4.62	17E-1657-09
15	Die Cast	17E-1657-15-ND	6.58	5.57	4.81	17E-1657-15
25	Die Cast	17E-1657-25-ND	8.19	6.93	5.99	17E-1657-25
37	Die Cast	17E-1657-37-ND	9.13	8.34	7.15	17E-1657-37
9	Black Plastic	17E-1724-1-ND	3.06	2.54	2.12	17E-1724-1
9	Black Plastic	L171370-ND	3.05	2.52	2.10	L171370
9	Black Plastic	L17DPPK09JS-ND	3.28	2.72	2.26	L17DPPK09JS
15	Black Plastic	17E-1725-1-ND	3.16	2.62	2.18	17E-1725-1
25	Black Plastic	17E-1726-1-ND	3.34	2.76	2.30	17E-1726-1
37	Black Plastic	17E-1727-1-ND	3.97	3.29	2.74	17E-1727-1
50	Black Plastic	17E-1728-1-ND	4.09	3.39	2.82	17E-1728-1
50	Zinc Alloy, Zinc Plated	17E165750-ND	10.19	9.31	7.98	17E165750
9	Metalized Plastic	17E-1724-2-ND	4.35	3.60	3.00	17E-1724-2
15	Metalized Plastic	17E-1725-2-ND	4.79	3.96	3.30	17E-1725-2
25	Metalized Plastic	17E-1726-2-ND	5.31	4.40	3.66	17E-1726-2
37	Metalized Plastic	17E-1727-2-ND	7.51	6.36	5.50	17E-1727-2
50	Metalized Plastic	17E-1728-2-ND	8.01	6.78	5.86	17E-1728-2

AWG	Plating	Digi-Key Part No.	Pricing 1	10	50	Amphenol Part No.
Contacts for Female						
20-24	8µ" Gold	L17-RR-D1-F-01-100-ND	.08	.70	3.04	L17-RR-D1-F-01-100
20-24	20µ" Gold	L17-RR-D1-F-02-100-ND	.11	1.06	4.75	L17-RR-D1-F-02-100
24-28	8µ" Gold	L17-RR-D2-F-01-100-ND	.09	.78	3.34	L17-RR-D2-F-01-100
24-28	20µ" Gold	L17-RR-D2-F-02-100-ND	.11	1.06	4.75	L17-RR-D2-F-02-100
Contacts for Male						
20-24	8µ" Gold	L17-RR-D1-M-01-100-ND	.08	.70	3.04	L17-RR-D1-M-01-100
20-24	20µ" Gold	L17-RR-D1-M-02-100-ND	.11	.99	4.42	L17-RR-D1-M-02-100
24-28	8µ" Gold	L17-RR-D2-M-01-100-ND	.09	.76	3.27	L17-RR-D2-M-01-100
Crimp Tools						
Insert/Extraction for 17RR		L17D438SP-ND	36.17	—	—	L17D438SP
Crimper for 17RR 20-28AWG		L17D440SP-ND	475.18	—	—	L17D44OSP

Description	Digi-Key Part No.	Pricing 1	10	50	Amphenol Part No.
Dustcovers and Boot					
Dustcover for MRJ Gray	MRJ-2586-10BP-ND	1.22	9.44	40.00	MRJ-2586-10BP
Dustcover for MRJ Black	MRJ-2586-20BP-ND ***NEW!***	1.44	11.21	47.50	MRJ-2586-20BP
Boot for MRJ Plug and Cable	MRJ-258E-11BP-ND	1.95	16.20	67.50	MRJ-258E-11BP
Dustcover for MUSB Type A Black	MUSB-2A111-024BP-ND	1.66	13.77	57.38	MUSB-2A111-024BP
Dustcover for MUSB Type A Gray	MUSB2A111014BP-ND	1.72	14.31	59.63	MUSB2A111014BP
Dustcover for MUSB Type B	MUSB2D11004BP-ND	1.33	10.33	43.75	MUSB2D11004BP
Dustcover for Mini USB	MUSB2E151005BP-ND	1.44	11.21	47.50	MUSB2E151005BP
Dustcover for Mini USB Black	MUSB2E151015BP-ND ***NEW!***	1.44	11.21	47.50	MUSB2E151015BP
Dust Cap Gray	FRJ2411-ND	.77	4.79	15.95	FRJ2411

Filtered D-Sub Connectors

Fig. 1

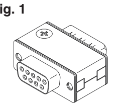

Fig. 2

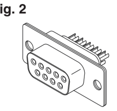

Fig. 3

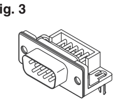

Fig. 4

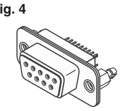

Fig.	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
1	FCE17-A15AD-250-ND	16.86	16.30	15.18	FCE17-A15AD-250
	FCE17-B25AD-250-ND	20.07	19.41	18.07	FCE17-B25AD-250
	FCE17-E09AD-250-ND	14.98	14.10	12.78	FCE17-E09AD-250
2	FCE17-A15PM-250-ND	10.72	9.92	8.90	FCE17-A15PM-250
	FCE17-A15PM-450-ND	12.36	11.44	10.26	FCE17-A15PM-450
	FCE17-A15SM-250-ND	10.86	10.05	9.02	FCE17-A15SM-250
	FCE17-B25PM-250-ND	12.99	12.23	11.08	FCE17-B25PM-250
	FCE17-B25PM-450-ND	14.38	13.54	12.27	FCE17-B25PM-450
	FCE17-B25SM-250-ND	13.18	12.40	11.24	FCE17-B25SM-250
	FCE17-B25SM-290-ND	13.18	12.40	11.24	FCE17-B25SM-290
	FCE17-B25SM-450-ND	14.57	13.72	12.43	FCE17-B25SM-450
	FCE17-E09PM-250-ND	8.79	8.03	6.88	FCE17-E09PM-250
2	FCE17-E09PM-450-ND	10.67	9.75	8.36	FCE17-E09PM-450
	FCE17-E09SM-250-ND	8.95	8.17	7.01	FCE17-E09SM-250
	FCE17-E09SM-2E0-ND	8.53	7.80	6.68	FCE17-E09SM-2E0
	FCE17-E09SM-450-ND	10.83	9.90	8.48	FCE17-E09SM-450
3	FCE17-A15PA-450-ND	11.68	10.81	9.70	FCE17-A15PA-450
	FCE17-A15PB-440-ND	11.40	10.55	9.47	FCE17-A15PB-440
	FCE17-A15SA-450-ND	11.62	10.75	9.65	FCE17-A15SA-450
	FCE17-A15SB-440-ND	11.36	10.51	9.43	FCE17-A15SB-440
	FCE17E09PB440-ND	9.14	8.46	7.59	FCE17E09PB440
	FCE17-B25PA-450-ND	12.77	12.02	10.89	FCE17-B25PA-450
	FCE17-B25SA-450-ND	16.81	15.83	14.35	FCE17-B25SA-450
	FCE17-E09SB-440-ND	10.51	9.60	8.23	FCE17-E09SB-440
	FCE17-E09PA-450-ND	10.56	9.64	8.27	FCE17-E09PA-450
	FCE17E09SA450-ND	10.56	9.64	8.27	FCE17E09SA450
4	FCE17-A15SE-A50-ND	13.00	12.03	10.79	FCE17-A15SE-A50
	FCE17-B25SE-A50-ND	14.45	13.60	12.33	FCE17-B25SE-A50
	FCE17-E09SE-A50-ND	10.50	9.72	8.72	FCE17-E09SE-A50

MicroRibbon Solder Cup

Fig. 1

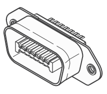

Fig. 2

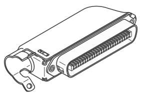

Fig. 3

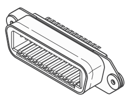

Fig. 4

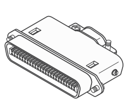

Fig.	Position	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
1	14	5710140-ND	6.79	5.62	4.68	5710140
2	50	571050014-ND	11.06	10.11	8.66	571050014
	50	57205007-ND	10.56	9.77	8.77	57205007
	50	157825003-ND	11.16	10.19	8.73	157825003
3	24	5720240-ND	8.27	7.00	6.05	5720240
4	36	5730360-ND	10.81	9.87	8.46	5730360
	50	5730500-ND	10.32	9.55	8.57	5730500
	50	57335001-ND	10.76	9.83	8.43	57335001

MicroPierce IDC

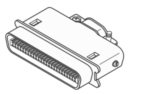

Position	Plating	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
10	—	8428001206030-ND	1.00	.70	.54	8428001206030
10	30µ" Gold	8428121022134-ND	2.15	1.79	1.49	8428121022134
14	20µ" Gold	5730140-ND	8.46	7.73	6.63	5730140
14	—	8428001206031-ND	.90	.63	.49	8428001206031
14	30µ" Gold	8428121422134-ND	2.37	1.98	1.65	8428121422134
16	30µ" Gold	8428121622134-ND	2.50	2.08	1.74	8428121622134
20	—	8428001206033-ND	1.00	.70	.54	8428001206033
20	30µ" Gold	8428122022134-ND	2.76	2.30	1.92	8428122022134
24	20µ" Gold	5730240-ND	9.71	8.87	7.60	5730240
26	—	8428001206034-ND	1.05	.74	.57	8428001206034
26	30µ" Gold	8428122622134-ND	3.19	2.65	2.21	8428122622134
30	30µ" Gold	8428123022134-ND	3.10	2.57	2.14	8428123022134
34	30µ" Gold	8428123422134-ND	3.25	2.69	2.24	8428123422134
40	—	8428001206036-ND	1.10	.77	.60	8428001206036
40	30µ" Gold	8428124022134-ND	3.77	3.12	2.60	8428124022134
50	20µ" Gold	15732500-ND	10.95	10.00	8.57	15732500
50	20µ" Gold	1573250010-ND	10.79	9.85	8.45	1573250010
50	20µ" Gold	157725003-ND	10.95	10.00	8.57	157725003
50	—	8428001206037-ND	1.82	1.52	1.26	8428001206037
50	30µ" Gold	8428125022134-ND	4.38	3.63	3.02	8428125022134

Series 812/816 Protected Headers

Position	Digi-Key Part No.	Pricing 1	10	50	Amphenol Part No.
Key					
Key	8428001211002-ND	.84	5.22	17.40	8428001211002
Latches					
Short Latch	8428001607005-ND	.75	5.25	20.25	8428001607005
Long Latch	8428001607006-ND	.84	5.22	17.40	8428001607006
Headers					
20	8428162030035-ND	3.92	32.40	135.00	8428162030035
50	8428165030035-ND	7.19	59.52	248.00	8428165030035

Amphenol® Commercial Products

USB A Type and Firewire Receptacle

Fig. 1

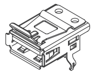

Fig. 2

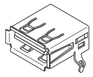

Fig. 3

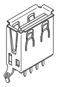

Fig. 4

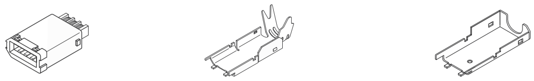

Fig.	Description	Plating	Digi-Key Part No.	Pricing 1	10	50	Amphenol Part No.
1	USB A Lockout	R/A Gold	LUSBA11100-ND	2.80	23.22	96.75	LUSBA11100
2	USB A	R/A Gold	UE27AC54100-ND	.85	5.95	22.95	UE27AC54100
3	USB A Mount	Vertical Gold	UE27AE54100-ND	1.20	8.40	32.40	UE27AE54100
4	6 Pos. Firewire	Solder cup	UE32AN0000-ND	1.52	11.80	50.00	UE32AN0000

NEW! USB 3.0 High Speed Connectors

Fig. 1

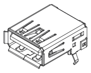

Fig. 2

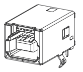

Fig. 3

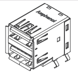

Fig. 4

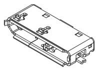

Fig. 5

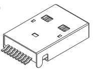

Fig. 6

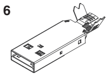

Fig. 7

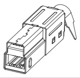

Fig.	No. of Contacts	Connector Type	Digi-Key Part No.	Pricing 1	10	50	Amphenol Part No.
Through Hole, Right Angle, Horizontal							
1	9	USB - A	GSB311131HR-ND	2.18	18.09	75.38	GSB311131HR
2	9	USB - B	GSB321131HR-ND	2.73	22.68	94.50	GSB321131HR
3	18	USB - A	GSB311231HR-ND	2.90	24.00	100.00	GSB311231HR
Surface Mount, Right Angle, Horizontal							
4	10	USB - Micro B	GSB343133HRCT-ND†	2.55	21.54	93.01	GSB343133HR
4	10	USB - Micro B	GSB343133HRTR-ND‡	1803.00/1,500			GSB343133HR
5	9	USB - A	GSB316441CEUCT-ND†	3.22	26.73	111.60	GSB316441CEU
5	9	USB - A	GSB316441CEUTR-ND‡	720.00/500			GSB316441CEU
Free Hanging (In-Line)							
6	9	USB - A	GSB317131HR-ND	2.08	17.28	72.00	GSB317131HR
7	9	USB - B	GSB327133WEU-ND	2.80	23.22	96.75	GSB327133WEU

† Cut Tape ‡ Tape and Reel

NEW! Printed Circuit Connectors

Fig. 1

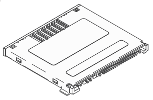

Fig. 2

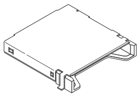

Fig. 3

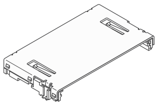

Fig. 4

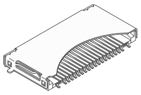

Fig. 5

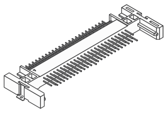

Fig. 6

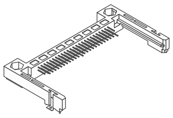

Fig. 7

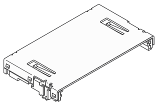

Fig. 8

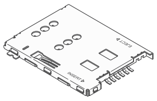

Fig. 9

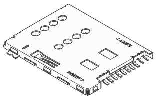

Fig. 10

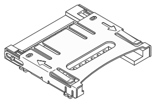

Fig. 11

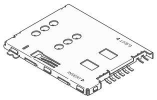

Fig. 12

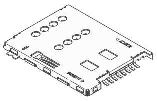

Fig. 13

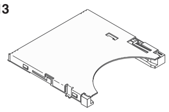

Fig. 14

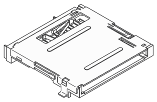

Fig. 15

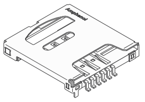

Fig. 16

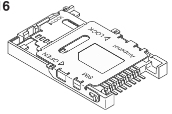

Fig. 17

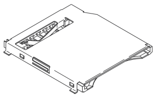

Fig. 18

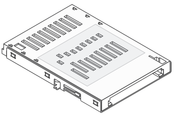

Fig. 19

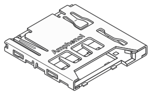

Fig. 20

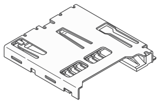

Fig. 21

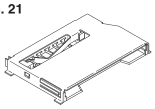

Fig. 22

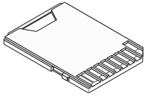

Fig. 23

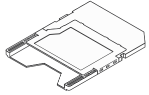

Fig. 24

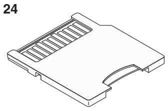

Fig. 25

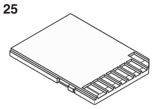

Fig. 26

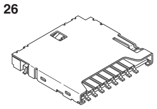

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Amphenol Part No.
1	Connector SM+XD Combo 46Pin PCB Gold	101-00002-64-ND	2.83	2.35	1.96	—	—	—	101-00002-64
2	Connector MS 10Pin REV PCB Gold Flash	101-00042-64-ND	1.48	1.16	.98	—	—	—	101-00042-64
3	Connector CF 50Pin REV PCB Gold Flash	101-00140-64-ND	2.44	2.03	1.69	—	—	—	101-00140-64
4	Connector XD 20Pin PCB Gold	101-00158-64-ND	1.25	.98	.83	—	—	—	101-00158-64
5	Connector CF 50Pin PCB Gold Flash	101-00178-64-ND	1.82	1.42	1.20	—	—	—	101-00178-64
6	Connector CF 50Pin REV PCB Gold Flash	101-00205-64-ND	1.79	1.49	1.24	—	—	—	101-00205-64
7	Connector CF 50Pin REV Gold Flash	101-00265-64-ND	2.54	2.11	1.76	—	—	—	101-00265-64
8	Connector Mini Card SIM 6Pin PCB Gold	101-00269-82-1-ND†	1.97	1.67	1.45	101-00269-82-2-ND	900	931.50	101-00269-82
9	Connector Mini Card SIM 8Pin PCB Gold	101-00271-82-1-ND†	2.00	1.70	1.47	101-00271-82-2-ND	900	945.00	101-00271-82
10	Connector Mini Micro-SD 8Pin PCB Gold	101-00303-68-1-ND†	.86	.72	.60	101-00303-68-2-ND	1,000	432.00	101-00303-68
11	Connector Mini Card SIM 6Pin PCB Gold	101-00306-82-1-ND†	1.97	1.67	1.45	101-00306-82-2-ND	900	931.50	101-00306-82
12	Connector Mini Card SIM 8Pin PCB Gold	101-00309-82-1-ND†	2.00	1.70	1.47	101-00309-82-2-ND	900	945.00	101-00309-82
13	Connector SD 9POS PCB Gold	101-00313-68-ND	2.28	1.89	1.58	—	—	—	101-00313-68
14	Connector SD 9POS PCB Gold	101-00405-75-ND	2.67	2.22	1.85	—	—	—	101-00405-75
15	Connector SIM+Micro-SD 14Pin PCB Gold	101-00434-68-1-ND†	2.63	2.23	1.93	101-00434-68-2-ND	600	883.20	101-00434-68
16	Connector 8POS SIM + 8PS Micro-SD PCB	101-00492-20-1-ND†	2.83	2.40	2.07	101-00492-20-2-ND	600	950.40	101-00492-20
17	Connector SD/MMC/MMC 15POS PCB Gold	101-00565-64-ND	1.71	1.33	1.13	—	—	—	101-00565-64
18	Connector SD/MMC/MS 19Pin REV PCB Gold	101-00578-89-1-ND†	3.90	3.56	3.05	101-00578-89-2-ND	150	415.80	101-00578-89
19	Connector Mini Micro-SD 8Pin PCB Gold	101-00581-59-1-ND†	1.72	1.46	1.26	101-00581-59-2-ND	1,000	870.00	101-00581-59
20	Connector Mini Micro-SD 8Pin PCB Gold	101-00660-68-6-1-ND†	1.66	1.41	1.22	101-00660-68-6-2-ND	1,000	841.00	101-00660-68-6
21	Connector SD/MMC 9Pin PCB Gold Flash	101-00708-64-ND	1.33	1.04	.88	—	—	—	101-00708-64
22	Adapter Mini-SD TO SD 9Pin Gold	106-00069-10-ND	1.63	1.27	1.08	—	—	—	106-00069-10
23	Adapter Mini-SD TO SD 9Pin Gold	106-00120-10-ND	1.69	1.41	1.17	—	—	—	106-00120-10
24	Adapter Micro-Mini-SD 11Pin Gold	106-00330-13-ND	1.75	1.36	1.15	—	—	—	106-00330-13
25	Adapter Micro-SD TO SD 9Pin Gold	106-00351-11-ND	1.56	1.21	1.03	—	—	—	106-00351-11
26	Connector Mini Micro-SD 8Pin PCB Gold	114-00841-68-1-ND†	1.56	1.30	1.08	114-00841-68-2-ND	1,500	711.00/M	114-00841-68

† Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Amphenol® Commercial Products

Modular Jacks

Fig. 1

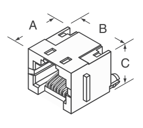

Fig. 2

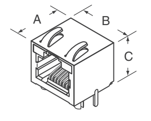

Fig. 3

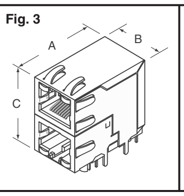

Fig. 4

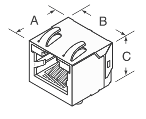

Fig.	Description	Dimensions (mm)			Digi-Key Part No.	Price Each		Amphenol Part No.
		A	B	C		1	10	
	PCB Vertical							
	Unshielded							
1	No LED	15.50	15.75	12.83	RJHSE-3080-ND	2.02	1.68	RJHSE-3080
	LED Green-Yellow	15.50	15.75	12.83	RJHSE-3081-ND	2.31	1.92	RJHSE-3081
	LED Green-Green	15.50	15.75	12.83	RJHSE-3085-ND	2.31	1.92	RJHSE-3085
	8 Position, No LED	16.38	15.36	15.87	RJE081880110-ND	1.29	1.01	RJE081880110
	8 Pos., LED, Both Bi-Color	15.50	15.75	12.83	RJHSE308A-ND	3.63	3.00	RJHSE308A
	Shielded							
1	No LED	15.88	16.51	13.59	RJHSE-3380-ND	2.54	2.11	RJHSE-3380
	LED Yellow-Green	15.88	16.51	13.59	RJHSE-3381-ND	2.93	2.43	RJHSE-3381
	LED Green-Yellow	15.88	16.51	13.59	RJHSE-3384-ND	2.93	2.43	RJHSE-3384
	LED Green-Green	15.88	16.51	13.59	RJHSE-3385-ND	2.93	2.43	RJHSE-3385
	LED Both Bi-Color	15.88	16.51	13.59	RJHSE-338A-ND	4.44	3.68	RJHSE-338A
	8 Position, No LED	16.15	16.30	13.22	RJE061881120-ND	2.21	1.84	RJE061881120
	8 Position, LED Green	15.88	16.51	13.59	RJHSE3382-ND	2.93	2.43	RJHSE3382
	PCB Right Angle							
	Unshielded							
2	No LED	14.99	15.75	13.21	RJHSE-5080-ND	1.10	.86	RJHSE-5080
	LED Yellow-Green	14.99	15.75	13.21	RJHSE-5081-ND	1.71	1.33	RJHSE-5081
	LED Green-Yellow	14.99	15.75	13.21	RJHSE-5084-ND	1.71	1.33	RJHSE-5084
	LED Green-Green	14.99	15.75	13.21	RJHSE-5085-ND	1.71	1.33	RJHSE-5085
	No LED	18.67	14.60	12.95	FRJAE-408-ND	2.44	2.03	FRJAE-408
	6 Position, Filtered	18.03	13.97	12.70	FRJAE666-ND	3.02	2.52	FRJAE666
	6 Position, No LED	18.10	12.96	11.50	RJE051660310-ND	1.75	1.36	RJE051660310
	8 Position, No LED	18.10	15.03	11.50	RJE051880310-ND	1.82	1.42	RJE051880310
	Shielded							
2	No LED	15.75	16.51	13.46	RJHSE-5380-ND	1.66	1.38	RJHSE-5380
	LED Yellow-Green	15.75	16.51	13.46	RJHSE-5381-ND	2.18	1.81	RJHSE-5381
	LED Green-Yellow	15.75	16.51	13.46	RJHSE-5384-ND	2.18	1.81	RJHSE-5384
	LED Green-Green	15.75	16.51	13.46	RJHSE-5385-ND	2.18	1.81	RJHSE-5385
	LED Both Bi-Color	15.75	16.51	13.46	RJHSE-538A-ND	3.25	2.69	RJHSE-538A
	W/ Tabs, No LED	15.75	16.51	13.46	RJHSE-5480-ND	1.66	1.38	RJHSE-5480
	W/ Tabs, LED Yellow-Grn	15.75	16.51	13.46	RJHSE-5481-ND	2.18	1.81	RJHSE-5481
	Filtered, No LED	18.03	13.97	12.70	FRJAE-418-ND	3.22	2.68	FRJAE-418
	Front Tab, No LED	18.03	13.97	12.70	FRJAE-438-ND	3.02	2.52	FRJAE-438
	Filtered, Rear Tab, No LED	18.03	13.97	12.70	FRJAE-468-ND	3.22	2.68	FRJAE-468
	Rear Tab, No LED	18.03	13.97	12.70	FRJAE-488-ND	3.02	2.52	FRJAE-488
	8 Position, S-flanges	18.34	17.78	13.19	RJE031882420-ND	2.05	1.71	RJE031882420
	8 Position	18.63	15.76	11.75	RJE051881310-ND	2.15	1.79	RJE051881310
	10 Position	18.80	15.90	12.25	RJE051AA1310-ND	2.28	1.89	RJE051AA1310
	RJ45, 8 Position, LED	15.75	16.51	13.84	RJHSE5387-ND	2.18	1.81	RJHSE5387
	RJ45, 8 Position, LED	15.75	16.51	13.84	RJHSE538B-ND	3.25	2.69	RJHSE538B
	8 Position	17.66	16.51	12.69	RJSBE5381C1-ND	3.41	2.84	RJSBE5381C1
	PCB Right Angle — Multi Port							
	Unshielded							
2	8 Position, 2 Ports	14.99	—	13.21	RJHSE508002-ND	2.57	2.14	RJHSE508002
	8 Position, 4 Ports	14.99	62.99	13.21	RJHSE508004-ND	3.25	2.69	RJHSE508004
	8 Position, 4 Ports, LED	14.99	62.99	13.21	RJHSE508104-ND	4.99	4.13	RJHSE508104
	8 Position, 8 Ports, LED	14.99	126.7	13.21	RJHSE508108-ND	8.33	7.61	RJHSE508108
	8 Position, 8 Ports, LED	14.99	126.7	13.21	RJHSE508B08-ND	14.42	13.34	RJHSE508B08
	Shielded							
2	No LED, 1x2	15.75	32.26	13.46	RJHSE-5380-02-ND	3.13	2.60	RJHSE-5380-02
	8 Position, 4 Ports	15.76	63.75	13.46	RJHSE538004-ND	3.89	3.22	RJHSE538004
	2 Ports, LED Yellow-Green	15.75	32.26	13.46	RJHSE-5381-02-ND	4.52	3.75	RJHSE-5381-02
	2 Ports, LED Green-Yellow	15.75	32.26	13.46	RJHSE-5384-02-ND	4.52	3.75	RJHSE-5384-02
	2 Ports, LED Green-Green	15.75	32.26	13.46	RJHSE-5385-02-ND	4.52	3.75	RJHSE-5385-02
	4 Ports, LED Yellow-Green	15.76	63.75	13.46	RJHSE-5381-04-ND	5.95	4.92	RJHSE-5381-04
	4 Ports, LED Green-Yellow	15.76	63.75	13.46	RJHSE-5384-04-ND	5.95	4.92	RJHSE-5384-04
	4 Ports, LED Green-Green	15.76	63.75	13.46	RJHSE-5385-04-ND	5.95	4.92	RJHSE-5385-04
	8 Position, 8 Ports, LED	15.75	126.7	13.84	RJHSE538408-ND	11.25	10.27	RJHSE538408
	8 Position, 2 Ports, LED	15.75	32.26	13.84	RJHSE538802-ND	4.52	3.75	RJHSE538802
	8 Position, 2 Ports, LED	15.75	32.26	13.84	RJHSE538A02-ND	7.16	5.93	RJHSE538A02
	8 Position, 2 Ports, LED	15.75	32.26	13.84	RJHSE538B02-ND	7.16	5.93	RJHSE538B02
	8 Position, 4 Ports, LED	15.76	63.75	13.59	RJHSE538B04-ND	8.83	8.07	RJHSE538B04
	Shielded - Stacked							
3	2 Ports, LED Yellow-Green	28.15	16.51	25.40	RJSAE-5381-02-ND	7.16	5.93	RJSAE-5381-02
	2 Ports, LED Green-Green	28.15	16.51	25.40	RJSAE-5385-02-ND	7.22	5.98	RJSAE-5385-02
	2 Ports, LED Both Bi-Color	28.15	16.51	25.40	RJSAE-538A-02-ND	7.67	6.49	RJSAE-538A-02
	4 Ports, LED Yellow-Green	28.15	32.26	25.40	RJSAE-5381-04-ND	10.28	9.39	RJSAE-5381-04
	4 Ports, LED Green-Green	28.15	32.26	25.40	RJSAE-5385-04-ND	10.28	9.39	RJSAE-5385-04
	4 Ports, LED Both Bi-Color	28.15	32.26	25.40	RJSAE-538A-04-ND	10.84	10.03	RJSAE-538A-04
	8 Ports, LED Yellow-Green	28.15	63.75	25.40	RJSAE-5381-08-ND	13.48	12.69	RJSAE-5381-08
	8 Ports, LED Green-Green	28.15	63.75	25.40	RJSAE-5385-08-ND	13.48	12.69	RJSAE-5385-08
	8 Ports, LED Both Bi-Color	28.15	63.75	25.40	RJSAE-538A-08-ND	16.76	15.78	RJSAE-538A-08
	8 Position, 2 Port, LED	28.15	16.51	25.40	RJSAE538002-ND	5.60	4.64	RJSAE538002
	8 Position, 4 Port, LED	28.15	32.26	25.40	RJSAE538004-ND	7.31	6.19	RJSAE538004
	8 Port, LED	28.15	63.75	25.40	RJSAE538008-ND	12.32	11.40	RJSAE538008
	2 Port, LED	28.15	16.51	25.40	RJSAE538202-ND	7.16	5.93	RJSAE538202
	2 Port, LED	28.15	16.51	25.40	RJSAE538402-ND	7.16	5.93	RJSAE538402
	2 Port, LED	28.15	16.51	25.40	RJSAE538B02-ND	7.67	6.49	RJSAE538B02
	Unshielded - Stacked							
3	8 Position, 2 Ports	27.38	15.75	25.15	RJSAE508002-ND	3.51	2.91	RJSAE508002
	Surface Mount Right Angle							
	Unshielded							
4	Single Port	15.19	16.10	13.08	RJSSE-5080-ND	1.82	1.42	RJSSE-5080
	2 Ports	15.20	31.73	13.27	RJSSE-5080-02-ND	2.99	2.49	RJSSE-5080-02
	4 Ports	15.20	63.30	12.81	RJSSE-5080-04-ND	4.79	3.96	RJSSE-5080-04
	8 Position	16.89	15.24	11.73	RJLSE4208101TCT-ND†	1.37	1.14	RJLSE4208101T
	8 Position	16.89	15.24	11.73	RJLSE4208101TTR-ND‡	154.80/160		RJLSE4208101T
	Shielded							
4	Single Port	15.75	16.51	13.34	RJSSE-5380-ND	2.05	1.71	RJSSE-5380
	2 Ports	15.75	32.26	13.34	RJSSE-5380-02-ND	4.00	3.32	RJSSE-5380-02
	4 Ports	15.75	63.75	13.34	RJSSE-5380-04-ND	7.19	5.96	RJSSE-5380-04
	8 Position	17.55	15.74	12.05	RJLSE4238101TCT-ND†	1.53	1.27	RJLSE4238101T
	8 Position	17.55	15.74	12.05	RJLSE4238101TTR-ND‡	108.00/100		RJLSE4238101T
	Surface Mount Right Angle With Light Pipe							
	Unshielded							
4	Single Port	15.20	15.98	13.38	RJSSE-5081-ND	1.72	1.44	RJSSE-5081
	Shielded							
4	Single Port	15.75	16.51	13.34	RJSSE-5381-ND	2.21	1.84	RJSSE-5381
	2 Ports	15.75	32.26	13.34	RJSSE-5381-02-ND	3.05	2.52	RJSSE-5381-02
	4 Ports	15.75	63.75	13.34	RJSSE-5381-04-ND	6.55	5.55	RJSSE-5381-04

† Cut Tape ‡ Tape and Reel

I/O INTERCONNECT / Digi-Key®

IDC Modular Cable Assemblies

Style	Positons/ Contacts	Digi-Key* Part No.	Price Each 1	10	50	100
		Straight Cable				
1	4/4	H1443-07-ND	1.45	1.23	1.04	.89
	8/8	H1883-14-ND	4.05	3.45	2.91	2.49
2	4/4	H244☐-14-ND	2.03	1.73	1.46	1.25
	8/8	H288☐-14-ND	4.05	3.45	2.91	2.49
3	8/8	H2883-25-ND	6.00	5.10	4.31	3.68
	8/8	H3881-14-ND	4.05	3.45	2.91	2.49
	8/8	H3882-14-ND	4.05	3.45	2.91	2.49
		Coiled Cord				
1	6/6	H1661-05C-ND	3.38	2.87	2.43	2.08
	8/8	H1883-14C-ND	8.48	7.21	6.09	5.21
2	4/4	H2441-07C-ND	3.51	2.99	2.52	2.16
	6/4	H264☐-05C-ND	3.26	2.78	2.35	2.01
	8/8	H2881-05C-ND	6.56	5.57	4.71	4.03
	8/8	H2883-07C-ND	5.47	4.65	3.93	3.36

* 1 = White, 2 = Black, 3 = Silver Satin.
Note: Custom length also available — minimum order required.

Straight

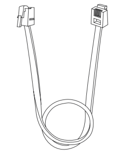

Coiled

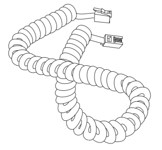

Style 1: Standard

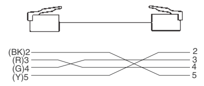

Style 2: Reverse

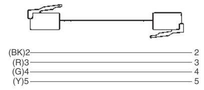

Style 3: Single Ended

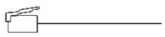

H☐☐☐☐-☐☐☐-ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

C = Designates Coil Cord

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

Length* (Use "Feet" Only)
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters) Straight
25 = 25 Feet (7.62 Meters)
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters) Coiled
14 = 14 Feet (4.27 Meters)

Straight Cable Assembly

Example: H 1 4 4 1 - 0 7 - N D
Style 1
4-Position
4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H 1 4 4 1 - 1 0 C - N D
Style 1
4-Position
4-Contact
White Wire
10 Feet Long (3.05 Meters)
Optimum Extended Length

How To Order: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (***in feet - not meters***).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IDC Modular Cable Assemblies

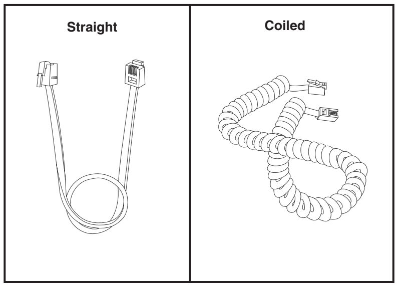

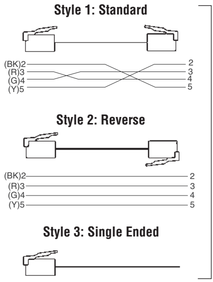

H □ □ □ □ R - □ □ □ - N D

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

RoHS Compliant

C = Coil Cord
Blank = Straight Cord

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

Length* (Use "Feet" Only)
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters) Straight
25 = 25 Feet (7.62 Meters)
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters) Coiled
10 = 10 Feet (3.05 Meters)
14 = 14 Feet (4.27 Meters)

How To Order: Choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type and Length (***in feet - not meters***).

Straight Cable Assembly

Example: H 1 4 4 1 R - 0 7 - N D
Style 1
4-Position
4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H 1 4 4 1 R - 1 0 C - N D
Style 1
4-Position
4-Contact
White Wire
10 Feet Long (2.13 Meters)
Optimum Extended Length

Straight Cable Assemblies

Style	Digi-Key Part No.†	Price Each 1	10	50	100
4-Position, 4-Contact Assemblies					
1	H1442R-07-ND	1.64	1.39	1.18	1.01
	H1443R-07-ND	1.64	1.39	1.18	1.01
	H1441R-14-ND	2.41	2.05	1.73	1.48
	H1442R-14-ND	2.41	2.05	1.73	1.48
	H1442R-25-ND	3.63	3.08	2.60	2.23
2	H2443R-07-ND	1.64	1.39	1.18	1.01
	H2442R-25-ND	3.63	3.08	2.60	2.23
3	H3442R-14-ND	2.41	2.05	1.73	1.48
	H3442R-25-ND	3.63	3.08	2.60	2.23
6-Position, 4-Contact Assemblies					
1	H1641R-14-ND	2.41	2.05	1.73	1.48
	H1642R-14-ND	2.41	2.05	1.73	1.48
	H1643R-14-ND	2.41	2.05	1.73	1.48
	H1641R-25-ND	3.63	3.08	2.60	2.23
	H1642R-25-ND	3.63	3.08	2.60	2.23
2	H2643R-07-ND	1.64	1.39	1.18	1.01
	H2641R-14-ND	2.41	2.05	1.73	1.48
	H2643R-14-ND	3.13	2.66	2.25	1.92
	H2641R-25-ND	3.63	3.08	2.60	2.23
	H2643R-25-ND	3.63	3.08	2.60	2.23
3	H3641R-07-ND	1.64	1.39	1.18	1.01
	H3643R-07-ND	1.64	1.39	1.18	1.01
	H3641R-14-ND	2.41	2.05	1.73	1.48
	H3642R-14-ND	2.41	2.05	1.73	1.48
	H3641R-25-ND	3.63	3.08	2.60	2.23
	H3643R-25-ND	3.63	3.08	2.60	2.23
6-Position, 6-Contact Assemblies					
1	H1661R-14-ND	3.79	3.23	2.73	2.33
	H1663R-14-ND	3.79	3.23	2.73	2.33
	H1662R-25-ND	6.01	5.11	4.32	3.69
	H1663R-25-ND	6.01	5.11	4.32	3.69
2	H2661R-14-ND	3.79	3.23	2.73	2.33
	H2662R-14-ND	3.79	3.23	2.73	2.33
	H2663R-14-ND	3.79	3.23	2.73	2.33
	H2661R-25-ND	6.01	5.11	4.32	3.69
3	H3661R-14-ND	3.79	3.23	2.73	2.33
	H3663R-14-ND	3.79	3.23	2.73	2.33
	H3661R-25-ND	6.01	5.11	4.32	3.69
	H3663R-25-ND	6.01	5.11	4.32	3.69
8-Position, 8-Contact Assemblies					
1	H1881R-07-ND	3.59	3.06	2.58	2.21
	H1882R-07-ND	3.59	3.06	2.58	2.21
	H1883R-07-ND	3.59	3.06	2.58	2.21
	H1881R-14-ND	5.61	4.77	4.03	3.45
	H1882R-14-ND	5.61	4.77	4.03	3.45
	H1883R-14-ND	5.61	4.77	4.03	3.45
	H1881R-25-ND	8.79	7.46	6.30	5.39
	H1883R-25-ND	8.79	7.46	6.30	5.39
2	H2881R-07-ND	3.59	3.06	2.58	2.21
	H2883R-07-ND	3.59	3.06	2.58	2.21
	H2881R-14-ND	5.61	4.77	4.03	3.45
	H2882R-14-ND	5.61	4.77	4.03	3.45
	H2883R-14-ND	5.61	4.77	4.03	3.45
	H2881R-25-ND	8.79	7.46	6.30	5.39
3	H3881R-07-ND	3.59	3.06	2.58	2.21
	H3883R-07-ND	3.59	3.06	2.58	2.21
	H3881R-14-ND	5.61	4.77	4.03	3.45
	H3883R-14-ND	5.61	4.77	4.03	3.45
	H3881R-25-ND	8.79	7.46	6.30	5.39
	H3883R-25-ND	8.79	7.46	6.30	5.39

† 1= White, **2** = Black, **3** = Silver Satin

Coil Cord Assemblies

Style	Digi-Key Part No.†	Price Each 1	10	50	100
4-Position, 4-Contact Assemblies					
1	H1441R-05C-ND	4.60	3.91	3.30	2.82
	H1443R-05C-ND	4.60	3.91	3.30	2.82
	H1441R-07C-ND	5.26	4.47	3.78	3.23
	H1443R-07C-ND	5.26	4.47	3.78	3.23
	H1441R-10C-ND	6.93	5.89	4.97	4.25
	H1442R-10C-ND	6.93	5.89	4.97	4.25
	H1443R-10C-ND	6.93	5.89	4.97	4.25
	H1441R-14C-ND	8.05	6.84	5.78	4.94
	H1442R-14C-ND	8.05	6.84	5.78	4.94
	H1443R-14C-ND	8.05	6.84	5.78	4.94
2	H2441R-05C-ND	4.60	3.91	3.30	2.82
	H2443R-05C-ND	4.60	3.91	3.30	2.82
	H2441R-07C-ND	5.26	4.47	3.78	3.23
	H2443R-07C-ND	5.26	4.47	3.78	3.23
	H2441R-10C-ND	6.93	5.89	4.97	4.25
	H2442R-10C-ND	6.93	5.89	4.97	4.25
	H2443R-10C-ND	6.93	5.89	4.97	4.25
	H2441R-14C-ND	8.05	6.84	5.78	4.94
	H2442R-14C-ND	8.05	6.84	5.78	4.94
	H2443R-14C-ND	8.05	6.84	5.78	4.94
3	H3441R-05C-ND	4.60	3.91	3.30	2.82
	H3443R-05C-ND	4.60	3.91	3.30	2.82
	H3441R-07C-ND	5.26	4.47	3.78	3.23
	H3441R-10C-ND	6.93	5.89	4.97	4.25
	H3443R-10C-ND	6.93	5.89	4.97	4.25
	H3441R-14C-ND	8.05	6.84	5.78	4.94
6-Position, 4-Contact Assemblies					
1	H1641R-05C-ND	4.29	3.65	3.08	2.64
	H1643R-05C-ND	4.29	3.65	3.08	2.64
	H1641R-07C-ND	6.08	5.17	4.37	3.73
	H1643R-07C-ND	6.08	5.17	4.37	3.73
	H1641R-10C-ND	7.65	6.50	5.49	4.69
	H1641R-14C-ND	9.16	7.78	6.57	5.62
	H1643R-14C-ND	9.16	7.78	6.57	5.62
2	H2641R-05C-ND	4.29	3.65	3.08	2.64
	H2643R-05C-ND	4.29	3.65	3.08	2.64
	H2641R-07C-ND	6.08	5.17	4.37	3.73
	H2643R-07C-ND	6.08	5.17	4.37	3.73
	H2641R-10C-ND	7.65	6.50	5.49	4.69
	H2641R-14C-ND	9.16	7.78	6.57	5.62
	H2643R-14C-ND	9.16	7.78	6.57	5.62
3	H3641R-05C-ND	4.29	3.65	3.08	2.64
	H3643R-05C-ND	4.29	3.65	3.08	2.64
	H3641R-07C-ND	6.08	5.17	4.37	3.73
	H3643R-07C-ND	6.08	5.17	4.37	3.73
	H3641R-10C-ND	7.65	6.50	5.49	4.69
	H3642R-10C-ND	7.65	6.50	5.49	4.69
	H3641R-14C-ND	9.16	7.78	6.57	5.62
	H3643R-14C-ND	9.16	7.78	6.57	5.62
6-Position, 6-Contact Assemblies					
1	H1661R-05C-ND	4.40	3.74	3.16	2.70
	H1662R-05C-ND	4.40	3.74	3.16	2.70
	H1663R-05C-ND	4.40	3.74	3.16	2.70
	H1663R-07C-ND	6.19	5.26	4.45	3.80
	H1661R-10C-ND	7.76	6.59	5.57	4.76
	H1661R-14C-ND	9.27	7.88	6.65	5.69
	H1663R-14C-ND	9.27	7.88	6.65	5.69
2	H2662R-05C-ND	6.12	5.20	4.39	3.76
	H2663R-05C-ND	4.40	3.74	3.16	2.70
	H2661R-07C-ND	6.19	5.26	4.45	3.80
	H2663R-07C-ND	6.19	5.26	4.45	3.80
	H2661R-10C-ND	7.76	6.59	5.57	4.76
	H2662R-10C-ND	7.76	6.59	5.57	4.76
	H2661R-14C-ND	9.27	7.88	6.65	5.69
	H2663R-14C-ND	9.27	7.88	6.65	5.69
3	H3661R-05C-ND	4.40	3.74	3.16	2.70
	H3662R-05C-ND	4.40	3.74	3.16	2.70
	H3663R-05C-ND	4.40	3.74	3.16	2.70
	H3661R-07C-ND	6.19	5.26	4.45	3.80
	H3663R-07C-ND	6.19	5.26	4.45	3.80
	H3661R-10C-ND	7.76	6.59	5.57	4.76
	H3662R-10C-ND	7.76	6.59	5.57	4.76
	H3661R-14C-ND	9.27	7.88	6.65	5.69
	H3663R-14C-ND	9.27	7.88	6.65	5.69
8-Position, 8-Contact Assemblies					
1	H1883R-05C-ND	7.48	6.36	5.37	4.59
	H1881R-07C-ND	7.43	6.32	5.34	4.56
	H1883R-07C-ND	7.43	6.32	5.34	4.56
	H1882R-10C-ND	10.59	8.99	7.60	6.50
	H1883R-10C-ND	10.59	8.99	7.60	6.50
	H1881R-14C-ND	11.72	9.95	8.40	7.19
	H1882R-14C-ND	11.72	9.95	8.40	7.19
	H1883R-14C-ND	11.72	9.95	8.40	7.19
2	H2883R-05C-ND	7.48	6.36	5.37	4.59
	H2881R-07C-ND	7.43	6.32	5.34	4.56
	H2882R-07C-ND	7.43	6.32	5.34	4.56
	H2883R-07C-ND	7.43	6.32	5.34	4.56
	H2883R-10C-ND	10.59	8.99	7.60	6.50
	H2881R-14C-ND	11.72	9.95	8.40	7.19
	H2882R-14C-ND	11.72	9.95	8.40	7.19
	H2883R-14C-ND	11.72	9.95	8.40	7.19
3	H3883R-05C-ND	7.48	6.36	5.37	4.59
	H3881R-07C-ND	7.43	6.32	5.34	4.56
	H3882R-07C-ND	7.43	6.32	5.34	4.56
	H3883R-07C-ND	7.43	6.32	5.34	4.56
	H3883R-10C-ND	10.59	8.99	7.60	6.50
	H3881R-14C-ND	11.72	9.95	8.40	7.19
	H3882R-14C-ND	11.72	9.95	8.40	7.19
	H3883R-14C-ND	11.72	9.95	8.40	7.19

† 1= White, **2** = Black, **3** = Silver Satin

Modular Cables

Flat modular line cord is available in either straight or coiled.
Straight: H004R is sold in hanks of 100, 500 and 1,000 feet, spools of 2,000 feet; H006R, H008R H010 and H010R are sold in hanks of 100 and 500 feet, spools of 1,000 feet.
Coiled: Hxx4☐C, Hxx4☐RC, Hxx6☐C, Hxx6☐RC, Hxx8☐C, Hxx8☐RC, Hxx10☐C and Hxx10☐RC are sold in 5, 7, 10 and 14 feet approximate optimum in three colors—white (designated by 1 for ☐ in part number), black (designated by 2 for ☐ in part number) and silver satin (designated by 3 for ☐ in part number).

View Ridge Up 4-Conductor Cable

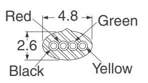

View Ridge Up 6-Conductor Cable

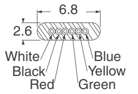

View Ridge Up 8-Conductor Cable

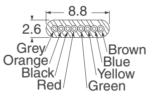

View Ridge Up 10-Conductor Cable

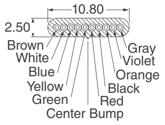

Number of Conductors	Length Feet (Meter)	Digi-Key Part No.‡	Price Each 1	10	50
Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG					
4	5 (1.52)	H054☐C-ND	2.15	1.83	1.54
	7 (2.13)	H0741C-ND	2.65	2.25	1.90
	10 (3.05)	H1042C-ND	3.31	2.82	2.38
	10 (3.05)	H1043C-ND◆	3.31	2.82	2.38
6	5 (1.52)	H0563C-ND	2.40	2.04	1.73
	7 (2.13)	H076☐C-ND	2.54	2.16	1.83
	10 (3.05)	H1061C-ND◆	4.13	3.51	2.97
	10 (3.05)	H1062C-ND◆	4.13	3.51	2.97
	14 (4.27)	H146☐C-ND◆	5.67	4.82	4.07
8	5 (1.52)	H0583C-ND	4.98	4.23	3.58
	7 (2.13)	H078☐C-ND	3.90	3.31	2.80
	10 (3.05)	H108☐C-ND	5.72	4.86	4.11
	14 (4.27)	H1481C-ND	6.91	5.87	4.96
	14 (4.27)	H1483C-ND◆	6.91	5.87	4.96
10	5 (1.52)	H0510☐C-ND◆	4.74	4.03	3.41
	7 (2.13)	H0710☐C-ND◆	4.93	4.19	3.54
	10 (3.05)	H1010☐C-ND◆	6.31	5.36	4.53
	14 (4.27)	H1410☐C-ND◆	7.02	5.97	5.04
Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG — RoHS Compliant					
4	5 (1.52)	H0541RC-ND	3.74	3.18	2.68
	5 (1.52)	H0543RC-ND	3.74	3.18	2.68
	7 (2.13)	H0741RC-ND	4.40	3.74	3.16
4	7 (2.13)	H0743RC-ND	4.40	3.74	3.16
	10 (3.05)	H1042RC-ND	6.07	5.16	4.36
	10 (3.05)	H1043RC-ND	6.07	5.16	4.36
	14 (4.27)	H1441RC-ND	7.19	6.11	5.16
	14 (4.27)	H1442RC-ND	7.19	6.11	5.16
	14 (4.27)	H1443RC-ND	7.19	6.11	5.16
6	5 (1.52)	H0562RC-ND	3.43	2.91	2.46
	5 (1.52)	H0563RC-ND	3.43	2.91	2.46
	7 (2.13)	H0762RC-ND	5.22	4.44	3.75
	7 (2.13)	H0763RC-ND	5.22	4.44	3.75
	10 (3.05)	H1061RC-ND	6.79	5.77	4.87
	10 (3.05)	H1062RC-ND	6.79	5.77	4.87
	14 (4.27)	H1461RC-ND	8.30	7.05	5.96
	14 (4.27)	H1462RC-ND	8.30	7.05	5.96
	14 (4.27)	H1463RC-ND	8.30	7.05	5.96
8	5 (1.52)	H0581RC-ND	7.90	6.71	5.67
	5 (1.52)	H0582RC-ND	5.91	5.02	4.24
	5 (1.52)	H0583RC-ND	5.91	5.02	4.24
	7 (2.13)	H0781RC-ND	5.86	4.98	4.21
	7 (2.13)	H0783RC-ND	5.86	4.98	4.21
	10 (3.05)	H1082RC-ND	9.01	7.66	6.47
	10 (3.05)	H1083RC-ND	9.01	7.66	6.47
	14 (4.27)	H1481RC-ND	10.14	8.61	7.28
	14 (4.27)	H1482RC-ND	10.14	8.61	7.28
	14 (4.27)	H1483RC-ND	10.14	8.61	7.28

Number of Conductors	Digi-Key Part No.‡†	Pricing 100 ft.	500 ft.	1,000 ft.
Straight Line Cord - 26 AWG — RoHS Compliant				
6	H0061R-X-ND	20.15	85.56	144.50
	H0063R-X-ND	20.15	85.56	144.50
8	H0083R-X-ND	28.85	122.46	206.82
10	H0102R-X-ND	50.09	212.63	359.10

‡ **1** = White, **2** = Black, **3** = Silver Satin † "X" in the Digi-Key Part Number represents number of feet.
◆ ***RoHS Complaint***

ASSMANN Electronics

Modular Jacks

Fig. 1 ***NEW!***

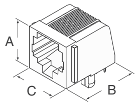

Fig. 2 ***NEW!***

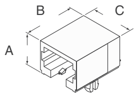

SMT Shown

Fig. 3 ***NEW!***

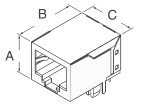

Fig. 4 ***NEW!***

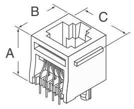

Fig. 5 ***NEW!***

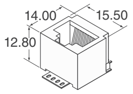

Fig. 6 ***NEW!***

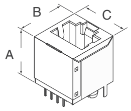

Fig. 7

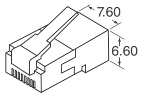

Fig. 8

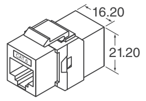

Fig.	Dimensions (mm) A	B	C	Positions - Contacts	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
NEW! Standard R/A Modular Jack with Flange NEW!									
1	16.00	20.60	13.70	4-4	AE10369-ND	1.08	.85	.79	A-2004-3-4-R
	16.00	20.60	15.70	6-4	AE10370-ND	1.00	.70	.60	A-2004-0-4-R
	16.00	20.60	15.70	6-6	AE10371-ND	1.14	.80	.69	A-2004-1-4-R
	15.80	20.57	17.70	8-8	AE10372-ND	1.26	.98	.92	A-2004-2-4-R
NEW! Standard R/A Modular Jack without Flange NEW!									
1	16.00	20.60	11.40	4-4	AE10373-ND	1.00	.70	.60	A-2004-3-4-N-R
	16.00	20.60	13.40	6-4	AE10374-ND	1.00	.70	.60	A-2004-0-4-N-R
	16.00	20.60	13.40	6-6	AE10375-ND	1.14	.80	.69	A-2004-1-4-N-R
	15.80	20.57	15.24	8-8	AE10376-ND	1.26	.98	.92	A-2004-2-4-N-R
NEW! Low-Profile R/A Modular Jack without Flange NEW!									
1	11.70	18.00	11.20	4-4	AE10381-ND	.76	.54	.46	A-2004-3-4-LP-N-R
	11.70	18.00	13.20	6-4	AE10382-ND	.81	.57	.49	A-2004-0-4-LP-N-R
	11.70	18.00	13.20	6-6	AE10383-ND	.95	.67	.57	A-2004-1-4-LP-N-R
	11.50	18.00	15.00	8-8	AE10384-ND	1.14	.80	.69	A-2004-2-4-LP-N-R
NEW! Low-Profile R/A Modular Jack without Flange NEW!									
2	11.70	18.00	13.20	6-6	AE10379-ND	1.05	.74	.63	A-2004-1-4-LP-R
	11.50	18.00	15.00	8-8	AE10385-ND†	1.87	1.46	1.36	A-2004-2-4-LP/SMT-R
	11.50	18.00	15.00	8-8	AE10380-ND	1.14	.80	.69	A-2004-2-4-LP-R
NEW! Low-Profile R/A Shielded Modular Jack without Flange NEW!									
3	13.60	21.20	15.90	8-8	AE10386-ND	1.30	1.01	.95	A-2004-2-4-LP/FS-N-R
	13.30	18.80	15.90	8-8	AE10387-ND§	1.23	.96	.89	A-2004-2-4-LPS-N-R
NEW! Low-Profile R/A Shielded Modular Jack with Flange NEW!									
3	13.60	18.40	17.70	8-8	AE10388-ND	1.37	1.07	1.00	A-2004-2-4-LP/S-R
NEW! Vertical Modular Jack with Flange NEW!									
4	16.38	16.50	13.80	4-4	AE10389-ND	.76	.54	.46	A-2014-3-4-R
	16.38	16.50	15.90	6-4	AE10390-ND	.76	.54	.46	A-2014-0-4-R
	16.38	16.50	15.90	6-6	AE10391-ND	.90	.63	.54	A-2014-1-4-R
	16.38	16.50	17.90	8-8	AE10392-ND	1.14	.80	.69	A-2014-2-4-R
NEW! Vertical Modular Jack without Flange NEW!									
4	16.38	16.50	11.43	4-4	AE10393-ND	.76	.54	.46	A-2014-3-4-N-T-R
	16.38	16.50	13.46	6-4	AE10394-ND	.76	.54	.46	A-2014-0-4-N-T-R
	16.38	16.50	13.46	6-6	AE10395-ND	.90	.63	.54	A-2014-1-4-N-T-R
	16.38	16.50	15.50	8-8	AE10396-ND	1.14	.80	.69	A-2014-2-4-N-T-R
NEW! Vertical SMT Modular Jack without Flange NEW!									
5	—	—	—	8-8	AE10397-ND	1.80	1.40	1.31	A-2014-2-4-SMT-N-R
NEW! Vertical Shielded Modular Jack with Flange NEW!									
6	15.75	13.45	16.35	8-8	AE10398-ND	1.80	1.40	1.31	A-2014-2-4-LP/FS-R
NEW! Vertical Shielded Modular Jack without Flange NEW!									
6	16.50	16.70	16.05	8-8	AE10399-ND	1.14	.80	.69	A-2014-2S-4-N-R
Modular Plugs									
7	—	—	—	4-4	AE1475-ND	.54	.34	.26	A-MO-4/4-SF-R
	—	—	—	6-4	AE1476-ND	.59	.36	.26	A-MO-6/4-SF-R
	—	—	—	6-6	AE1477-ND	.83	.52	.39	A-MO-6/6-SF-R
	—	—	—	8-8	AE1478-ND	.78	.55	.47	A-MO-8/8-SF-R
	—	—	—	8-8	AE1479-ND	1.03	.80	.75	A-MO-8/8-SFS-R
	—	—	—	6-4	AE1481-ND	.54	.34	.26	A-MO-6/4-SR-R
	—	—	—	6-6	AE1482-ND	.83	.52	.39	A-MO-6/6-SR-R
	—	—	—	8-8	AE1483-ND	.78	.55	.47	A-MO-8/8-SR-R
	—	—	—	8-8	AE1484-ND	1.03	.80	.75	A-MO-8/8-SRS-R
Modular Jacks									
8	—	—	—	8-8	AE10093-ND	7.21	5.97	5.60	A-TA3534-R
	—	—	—	8-8	AE10094-ND	6.34	5.37	5.13	A-TA3535-R

§ Short † SMT

IDC Modular Cable Assemblies

Cable assemblies are made with 26AWG stranded copper conductor cable, with color coded insulation and colored PVC Jacket. Modular plugs have 50μ" selective gold plating with gold flash on the rest of the conductor.

Coiled

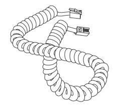

Straight

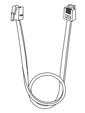

Style 1: Standard

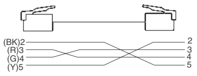

Style 2: Reverse

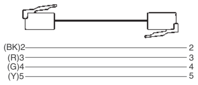

Style 3: Single Ended

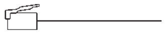

A □□□□R - □□□ - ND

Connector(s):
□□ = □-Position, □-Contact

Cable Color:
1 = White
2 = Black
3 = Silver

RoHS Compliant

C = Coil Cord
Blank = Straight Cord

Length (Use "Feet" Only)

Straight
7 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters)
25 = 25 Feet (7.62 Meters)

Coiled
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters)
14 = 14 Feet (4.27 Meters)

How To Order: Choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type and Length (***in feet - not meters***).

Straight Cable Assembly

Example: A 1 4 4 1 R - 0 7 - N D
Style 1
4-Position
4-Contact
White Wire
7 Feet Long
(2.13 Meters)

Coil Cord Assembly

Example: A 1 4 4 1 R - 0 5 C - N D
Style 1
4-Position
4-Contact
White Wire
5 Feet Long (1.52 Meters)

Coiled Cord Assemblies

Assembly Style - Color	Length Feet (Meters)	Digi-Key Part No.	Price Each				Assmann Part No.
			1	10	50	100	
4 Position/4 Contact							
Standard - White	5 (1.52)	A1441R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/W-5-R
	7 (2.13)	A1441R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/W-7-R
	10 (3.05)	A1441R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/W-10-R
	14 (4.27)	A1441R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/W-14-R
Standard - Black	5 (1.52)	A1442R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/B-5-R
	7 (2.13)	A1442R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/B-7-R
	10 (3.05)	A1442R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/B-10-R
	14 (4.27)	A1442R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/B-14-R
Standard - Silver	5 (1.52)	A1443R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/S-5-R
	7 (2.13)	A1443R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/S-7-R
	10 (3.05)	A1443R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/S-10-R
	14 (4.27)	A1443R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/S-14-R
Reverse - White	5 (1.52)	A2441R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/W-5/R-R
	7 (2.13)	A2441R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/W-7/R-R
	10 (3.05)	A2441R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/W-10/R-R
	14 (4.27)	A2441R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/W-14/R-R
Reverse - Black	5 (1.52)	A2442R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/B-5/R-R
	7 (2.13)	A2442R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/B-7/R-R
	10 (3.05)	A2442R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/B-10/R-R
	14 (4.27)	A2442R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/B-14/R-R
Reverse - Silver	5 (1.52)	A2443R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/S-5/R-R
	7 (2.13)	A2443R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/S-7/R-R
	10 (3.05)	A2443R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/S-10/R-R
	14 (4.27)	A2443R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/S-14/R-R
Single Ended - White	5 (1.52)	A3441R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/W-5-OE-R
	7 (2.13)	A3441R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/W-7-OE-R
	10 (3.05)	A3441R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/W-10-OE-R
	14 (4.27)	A3441R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/W-14-OE-R
Single Ended - Black	5 (1.52)	A3442R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/B-5-OE-R
	7 (2.13)	A3442R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/B-7-OE-R
	10 (3.05)	A3442R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/B-10-OE-R
	14 (4.27)	A3442R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/B-14-OE-R
Single Ended - Silver	5 (1.52)	A3443R-05C-ND	4.60	3.91	3.30	2.82	AT-C-26-4/4/S-5-OE-R
	7 (2.13)	A3443R-07C-ND	5.26	4.47	3.78	3.23	AT-C-26-4/4/S-7-OE-R
	10 (3.05)	A3443R-10C-ND	6.93	5.89	4.97	4.25	AT-C-26-4/4/S-10-OE-R
	14 (4.27)	A3443R-14C-ND	8.05	6.84	5.78	4.94	AT-C-26-4/4/S-14-OE-R
6 Position/6 Contact							
Standard - White	5 (1.52)	A1661R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/W-5-R
	7 (2.13)	A1661R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/W-7-R
	10 (3.05)	A1661R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/W-10-R
	14 (4.27)	A1661R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/W-14-R
Standard - Black	5 (1.52)	A1662R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/B-5-R
	7 (2.13)	A1662R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/B-7-R
	10 (3.05)	A1662R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/B-10-R
	14 (4.27)	A1662R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/B-14-R
Standard - Silver	5 (1.52)	A1663R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/S-5-R
	7 (2.13)	A1663R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/S-7-R
	10 (3.05)	A1663R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/S-10-R
	14 (4.27)	A1663R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/S-14-R
Reverse - White	5 (1.52)	A2661R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/W-5/R-R
	7 (2.13)	A2661R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/W-7/R-R
	10 (3.05)	A2661R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/W-10/R-R
	14 (4.27)	A2661R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/W-14/R-R
Reverse - Black	5 (1.52)	A2662R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/B-5/R-R
	7 (2.13)	A2662R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/B-7/R-R
	10 (3.05)	A2662R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/B-10/R-R
	14 (4.27)	A2662R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/B-14/R-R
Reverse - Silver	5 (1.52)	A2663R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/S-5/R-R
	7 (2.13)	A2663R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/S-7/R-R
	10 (3.05)	A2663R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/S-10/R-R
	14 (4.27)	A2663R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/S-14/R-R
Single Ended - White	5 (1.52)	A3661R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/W-5-OE-R
	7 (2.13)	A3661R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/W-7-OE-R
	10 (3.05)	A3661R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/W-10-OE-R
	14 (4.27)	A3661R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/W-14-OE-R
Single Ended - Black	5 (1.52)	A3662R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/B-5-OE-R
	7 (2.13)	A3662R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/B-7-OE-R
	10 (3.05)	A3662R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/B-10-OE-R
	14 (4.27)	A3662R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/B-14-OE-R
Single Ended - Silver	5 (1.52)	A3663R-05C-ND	4.40	3.74	3.16	2.70	AT-C-26-6/6/S-5-OE-R
	7 (2.13)	A3663R-07C-ND	6.19	5.26	4.45	3.80	AT-C-26-6/6/S-7-OE-R
	10 (3.05)	A3663R-10C-ND	7.76	6.59	5.57	4.76	AT-C-26-6/6/S-10-OE-R
	14 (4.27)	A3663R-14C-ND	9.27	7.88	6.65	5.69	AT-C-26-6/6/S-14-OE-R
8 Position/8 Contact							
Standard - White	5 (1.52)	A1881R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/W-5-R
	7 (2.13)	A1881R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/W-7-R
	10 (3.05)	A1881R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/W-10-R
	14 (4.27)	A1881R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/W-14-R
Standard - Black	5 (1.52)	A1882R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/B-5-R
	7 (2.13)	A1882R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/B-7-R
	10 (3.05)	A1882R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/B-10-R
	14 (4.27)	A1882R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/B-14-R
Standard - Silver	5 (1.52)	A1883R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/S-5-R
	7 (2.13)	A1883R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/S-7-R
	10 (3.05)	A1883R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/S-10-R
	14 (4.27)	A1883R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/S-14-R
Reverse - White	5 (1.52)	A2881R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/W-5/R-R
	7 (2.13)	A2881R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/W-7/R-R
	10 (3.05)	A2881R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/W-10/R-R
	14 (4.27)	A2881R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/W-14/R-R
Reverse - Black	5 (1.52)	A2882R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/B-5/R-R
	7 (2.13)	A2882R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/B-7/R-R
	10 (3.05)	A2882R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/B-10/R-R
	14 (4.27)	A2882R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/B-14/R-R
Reverse - Silver	5 (1.52)	A2883R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/S-5/R-R
	7 (2.13)	A2883R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/S-7/R-R
	10 (3.05)	A2883R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/S-10/R-R
	14 (4.27)	A2883R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/S-14/R-R
Single Ended - White	5 (1.52)	A3881R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/W-5-OE-R
	7 (2.13)	A3881R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/W-7-OE-R
	10 (3.05)	A3881R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/W-10-OE-R
	14 (4.27)	A3881R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/W-14-OE-R
Single Ended - Black	5 (1.52)	A3882R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/B-5-OE-R
	7 (2.13)	A3882R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/B-7-OE-R
	10 (3.05)	A3882R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/B-10-OE-R
	14 (4.27)	A3882R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/B-14-OE-R
Single Ended - Silver	5 (1.52)	A3883R-05C-ND	7.48	6.36	5.37	4.59	AT-C-26-8/8/S-5-OE-R
	7 (2.13)	A3883R-07C-ND	7.43	6.32	5.34	4.56	AT-C-26-8/8/S-7-OE-R
	10 (3.05)	A3883R-10C-ND	10.59	8.99	7.60	6.50	AT-C-26-8/8/S-10-OE-R
	14 (4.27)	A3883R-14C-ND	11.72	9.95	8.40	7.19	AT-C-26-8/8/S-14-OE-R

Straight Cord Assemblies

Assembly Style - Color	Length Feet (Meters)	Digi-Key Part No.	Price Each				Assmann Part No.
			1	10	50	100	
4 Position/4 Contact							
Standard - White	7 (2.13)	A1441R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/W-7-R
	14 (4.27)	A1441R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/W-14-R
	25 (7.62)	A1441R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/W-25-R
Standard - Black	7 (2.13)	A1442R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/B-7-R
	14 (4.27)	A1442R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/B-14-R
	25 (7.62)	A1442R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/B-25-R
Standard - Silver	7 (2.13)	A1443R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/S-7-R
	14 (4.27)	A1443R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/S-14-R
	25 (7.62)	A1443R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/S-25-R
Reverse - White	7 (2.13)	A2441R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/W-7/R-R
	14 (4.27)	A2441R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/W-14/R-R
	25 (7.62)	A2441R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/W-25/R-R
Reverse - Black	7 (2.13)	A2442R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/B-7/R-R
	14 (4.27)	A2442R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/B-14/R-R
	25 (7.62)	A2442R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/B-25/R-R
Reverse - Silver	7 (2.13)	A2443R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/S-7/R-R
	14 (4.27)	A2443R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/S-14/R-R
	25 (7.62)	A2443R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/S-25/R-R
Single Ended - White	7 (2.13)	A3441R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/W-7-OE-R
	14 (4.27)	A3441R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/W-14-OE-R
	25 (7.62)	A3441R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/W-25-OE-R
Single Ended - Black	7 (2.13)	A3442R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/B-7-OE-R
	14 (4.27)	A3442R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/B-14-OE-R
	25 (7.62)	A3442R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/B-25-OE-R
Single Ended - Silver	7 (2.13)	A3443R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-4/4/S-7-OE-R
	14 (4.27)	A3443R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-4/4/S-14-OE-R
	25 (7.62)	A3443R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-4/4/S-25-OE-R
6 Position/4 Contact							
Standard - White	7 (2.13)	A1641R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/W-7-R
	14 (4.27)	A1641R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/W-14-R
	25 (7.62)	A1641R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/W-25-R
Standard - Black	7 (2.13)	A1642R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/B-7-R
	14 (4.27)	A1642R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/B-14-R
	25 (7.62)	A1642R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/B-25-R
Standard - Silver	7 (2.13)	A1643R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/S-7-R
	14 (4.27)	A1643R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/S-14-R
	25 (7.62)	A1643R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/S-25-R
Reverse - White	7 (2.13)	A2641R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/W-7/R-R
	14 (4.27)	A2641R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/W-14/R-R
	25 (7.62)	A2641R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/W-25/R-R

(Continued)

IDC Modular Cable Assemblies

Straight Cord Assemblies *(Cont.)*

Assembly Style - Color	Length Feet (Meters)	Digi-Key Part No.	Price Each 1	10	50	100	Assmann Part No.
Reverse - Black	7 (2.13)	A2642R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/B-7/R-R
	14 (4.27)	A2642R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/B-14/R-R
	25 (7.62)	A2642R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/B-25/R-R
Reverse - Silver	7 (2.13)	A2643R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/S-7/R-R
	14 (4.27)	A2643R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/S-14/R-R
	25 (7.62)	A2643R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/S-25/R-R
Single Ended - White	7 (2.13)	A3641R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/W-7-OE-R
	14 (4.27)	A3641R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/W-14-OE-R
	25 (7.62)	A3641R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/W-25-OE-R
Single Ended - Black	7 (2.13)	A3642R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/B-7-OE-R
	14 (4.27)	A3642R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/B-14-OE-R
	25 (7.62)	A3642R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/B-25-OE-R
Single Ended - Silver	7 (2.13)	A3643R-07-ND	1.64	1.39	1.18	1.01	AT-S-26-6/4/S-7-OE-R
	14 (4.27)	A3643R-14-ND	2.41	2.05	1.73	1.48	AT-S-26-6/4/S-14-OE-R
	25 (7.62)	A3643R-25-ND	3.63	3.08	2.60	2.23	AT-S-26-6/4/S-25-OE-R
6 Position/6 Contact							
Standard - White	7 (2.13)	A1661R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/W-7-R
	14 (4.27)	A1661R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/W-14-R
	25 (7.62)	A1661R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/W-25-R
Standard - Black	7 (2.13)	A1662R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/B-7-R
	14 (4.27)	A1662R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/B-14-R
	25 (7.62)	A1662R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/B-25-R
Standard - Silver	7 (2.13)	A1663R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/S-7-R
	14 (4.27)	A1663R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/S-14-R
	25 (7.62)	A1663R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/S-25-R
Reverse - White	7 (2.13)	A2661R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/W-7/R-R
	14 (4.27)	A2661R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/W-14/R-R
	25 (7.62)	A2661R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/W-25/R-R
Reverse - Black	7 (2.13)	A2662R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/B-7/R-R
	14 (4.27)	A2662R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/B-14/R-R
	25 (7.62)	A2662R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/B-25/R-R
Reverse - Silver	7 (2.13)	A2663R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/S-7/R-R
	14 (4.27)	A2663R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/S-14/R-R
	25 (7.62)	A2663R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/S-25/R-R
Single Ended - White	7 (2.13)	A3661R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/W-7-OE-R
	14 (4.27)	A3661R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/W-14-OE-R
	25 (7.62)	A3661R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/W-25-OE-R
Single Ended - Black	7 (2.13)	A3662R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/B-7-OE-R
	14 (4.27)	A3662R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/B-14-OE-R
	25 (7.62)	A3662R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/B-25-OE-R
Single Ended - Silver	7 (2.13)	A3663R-07-ND	2.38	2.03	1.71	1.47	AT-S-26-6/6/S-7-OE-R
	14 (4.27)	A3663R-14-ND	3.79	3.23	2.73	2.33	AT-S-26-6/6/S-14-OE-R
	25 (7.62)	A3663R-25-ND	6.01	5.11	4.32	3.69	AT-S-26-6/6/S-25-OE-R
8 Position/8 Contact							
Standard - White	7 (2.13)	A1881R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/W-7-R
	14 (4.27)	A1881R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/W-14-R
	25 (7.62)	A1881R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/W-25-R
Standard - Black	7 (2.13)	A1882R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/B-7-R
	14 (4.27)	A1882R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/B-14-R
	25 (7.62)	A1882R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/B-25-R
Standard - Silver	7 (2.13)	A1883R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/S-7-R
	14 (4.27)	A1883R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/S-14-R
	25 (7.62)	A1883R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/S-25-R
Reverse - White	7 (2.13)	A2881R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/W-7/R-R
	14 (4.27)	A2881R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/W-14/R-R
	25 (7.62)	A2881R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/W-25/R-R
Reverse - Black	7 (2.13)	A2882R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/B-7/R-R
	14 (4.27)	A2882R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/B-14/R-R
	25 (7.62)	A2882R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/B-25/R-R
Reverse - Silver	7 (2.13)	A2883R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/S-7/R-R
	14 (4.27)	A2883R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/S-14/R-R
	25 (7.62)	A2883R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/S-25/R-R
Single Ended - White	7 (2.13)	A3881R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/W-7-OE-R
	14 (4.27)	A3881R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/W-14-OE-R
	25 (7.62)	A3881R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/W-25-OE-R
Single Ended - Black	7 (2.13)	A3882R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/B-7-OE-R
	14 (4.27)	A3882R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/B-14-OE-R
	25 (7.62)	A3882R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/B-25-OE-R
Single Ended - Silver	7 (2.13)	A3883R-07-ND	3.59	3.06	2.58	2.21	AT-S-26-8/8/S-7-OE-R
	14 (4.27)	A3883R-14-ND	5.61	4.77	4.03	3.45	AT-S-26-8/8/S-14-OE-R
	25 (7.62)	A3883R-25-ND	8.79	7.46	6.30	5.39	AT-S-26-8/8/S-25-OE-R

Modular Cables

Modular cables are made with 26AWG stranded copper conductors, color coded insulation and colored PVC Jacket.

Fig. 1

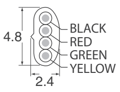

Fig. 2

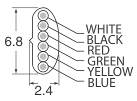

Fig. 3

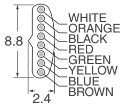

Fig. 4

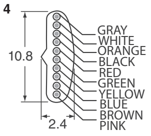

Color	Length Feet (Meters)	Digi-Key Part No.	Price Each 1	10	50	100	Assmann Part No.
Fig. 1 — 4 Conductor							
White	100 (30.48)	A0041R-100-ND	11.06	9.39	7.93	6.79	AT-K-26-4-W/100-R
	500 (152.40)	A0041R-500-ND	46.95	39.65	33.91	30.26	AT-K-26-4-W/500-R
	1,000 (304.80)	A0041R-1000-ND	79.29	67.82	60.51	56.34	AT-K-26-4-W/1000-R
Black	100 (30.48)	A0042R-100-ND	11.06	9.39	7.93	6.79	AT-K-26-4-B/100-R
	500 (152.40)	A0042R-500-ND	46.95	39.65	33.91	30.26	AT-K-26-4-B/500-R
	1,000 (304.80)	A0042R-1000-ND	79.29	67.82	60.51	56.34	AT-K-26-4-B/1000-R
Silver	100 (30.48)	A0043R-100-ND	11.06	9.39	7.93	6.79	AT-K-26-4-S/100-R
	500 (152.40)	A0043R-500-ND	46.95	39.65	33.91	30.26	AT-K-26-4-S/500-R
	1,000 (304.80)	A0043R-1000-ND	79.29	67.82	60.51	56.34	AT-K-26-4-S/1000-R
Fig. 2 — 6 Conductor							
White	100 (30.48)	A0061R-100-ND	20.15	17.12	14.45	12.36	AT-K-26-6-W/100-R
	500 (152.40)	A0061R-500-ND	85.56	72.25	61.80	55.14	AT-K-26-6-W/500-R
	1,000 (304.80)	A0061R-1000-ND	144.50	123.59	110.28	102.67	AT-K-26-6-W/1000-R
Black	100 (30.48)	A0062R-100-ND	20.15	17.12	14.45	12.36	AT-K-26-6-B/100-R
	500 (152.40)	A0062R-500-ND	85.56	72.25	61.80	55.14	AT-K-26-6-B/500-R
	1,000 (304.80)	A0062R-1000-ND	144.50	123.59	110.28	102.67	AT-K-26-6-B/1000-R
Silver	100 (30.48)	A0063R-100-ND	20.15	17.12	14.45	12.36	AT-K-26-6-S/100-R
	500 (152.40)	A0063R-500-ND	85.56	72.25	61.80	55.14	AT-K-26-6-S/500-R
	1,000 (304.80)	A0063R-1000-ND	144.50	123.59	110.28	102.67	AT-K-26-6-S/1000-R
Fig. 3 — 8 Conductor							
White	100 (30.48)	A0081R-100-ND	28.85	24.50	20.69	17.69	AT-K-26-8-W/100-R
	500 (152.40)	A0081R-500-ND	122.46	103.41	88.45	78.92	AT-K-26-8-W/500-R
	1,000 (304.80)	A0081R-1000-ND	206.82	176.89	157.84	146.95	AT-K-26-8-W/1000-R
Black	100 (30.48)	A0082R-100-ND	28.85	24.50	20.69	17.69	AT-K-26-8-B/100-R
	500 (152.40)	A0082R-500-ND	122.46	103.41	88.45	78.92	AT-K-26-8-B/500-R
	1,000 (304.80)	A0082R-1000-ND	206.82	176.89	157.84	146.95	AT-K-26-8-B/1000-R
Silver	100 (30.48)	A0083R-100-ND	28.85	24.50	20.69	17.69	AT-K-26-8-S/100-R
	500 (152.40)	A0083R-500-ND	122.46	103.41	88.45	78.92	AT-K-26-8-S/500-R
	1,000 (304.80)	A0083R-1000-ND	206.82	176.89	157.84	146.95	AT-K-26-8-S/1000-R
Fig. 4 — 10 Conductor							
White	100 (30.48)	A0101R-100-ND	50.09	42.53	35.91	30.72	AT-K-26-10-W/100-R
	500 (152.40)	A0101R-500-ND	212.63	179.55	153.57	137.03	AT-K-26-10-W/500-R
	1,000 (304.80)	A0101R-1000-ND	359.10	307.13	274.05	255.15	AT-K-26-10-W/1000-R
Black	100 (30.48)	A0102R-100-ND	50.09	42.53	35.91	30.72	AT-K-26-10-B/100-R
	500 (152.40)	A0102R-500-ND	212.63	179.55	153.57	137.03	AT-K-26-10-B/500-R
	1,000 (304.80)	A0102R-1000-ND	359.10	307.13	274.05	255.15	AT-K-26-10-B/1000-R
Silver	100 (30.48)	A0103R-100-ND	50.09	42.53	35.91	30.72	AT-K-26-10-S/100-R
	500 (152.40)	A0103R-500-ND	212.63	179.55	153.57	137.03	AT-K-26-10-S/500-R
	1,000 (304.80)	A0103R-1000-ND	359.10	307.13	274.05	255.15	AT-K-26-10-S/1000-R

Coiled Line Cords (Unterminated)

Color	Length Feet (Meters)	Digi-Key Part No.	Price Each 1	10	50	100	Assmann Part No.
4 Conductor							
White	5 (1.524)	A0541RC-ND	3.74	3.18	2.68	2.30	AT-K-C-26-4-W/5-R
	7 (2.1336)	A0741RC-ND	4.40	3.74	3.16	2.70	AT-K-C-26-4-W/7-R
	10 (3.048)	A1041RC-ND	6.07	5.16	4.36	3.73	AT-K-C-26-4-W/10-R
	14 (4.2672)	A1441RC-ND	7.19	6.11	5.16	4.41	AT-K-C-26-4-W/14-R
Black	5 (1.524)	A0542RC-ND	3.74	3.18	2.68	2.30	AT-K-C-26-4-B/5-R
	7 (2.1336)	A0742RC-ND	4.40	3.74	3.16	2.70	AT-K-C-26-4-B/7-R
	10 (3.048)	A1042RC-ND	6.07	5.16	4.36	3.73	AT-K-C-26-4-B/10-R
	14 (4.2672)	A1442RC-ND	7.19	6.11	5.16	4.41	AT-K-C-26-4-B/14-R
Silver	5 (1.524)	A0543RC-ND	3.74	3.18	2.68	2.30	AT-K-C-26-4-S/5-R
	7 (2.1336)	A0743RC-ND	4.40	3.74	3.16	2.70	AT-K-C-26-4-S/7-R
	10 (3.048)	A1043RC-ND	6.07	5.16	4.36	3.73	AT-K-C-26-4-S/10-R
	14 (4.2672)	A1443RC-ND	7.19	6.11	5.16	4.41	AT-K-C-26-4-S/14-R
6 Conductor							
White	5 (1.524)	A0561RC-ND	3.43	2.91	2.46	2.11	AT-K-C-26-6-W/5-R
	7 (2.1336)	A0761RC-ND	5.22	4.44	3.75	3.21	AT-K-C-26-6-W/7-R
	10 (3.048)	A1061RC-ND	6.79	5.77	4.87	4.17	AT-K-C-26-6-W/10-R
	14 (4.2672)	A1461RC-ND	8.30	7.05	5.96	5.09	AT-K-C-26-6-W/14-R
Black	5 (1.524)	A0562RC-ND	3.43	2.91	2.46	2.11	AT-K-C-26-6-B/5-R
	7 (2.1336)	A0762RC-ND	5.22	4.44	3.75	3.21	AT-K-C-26-6-B/7-R
	10 (3.048)	A1062RC-ND	6.79	5.77	4.87	4.17	AT-K-C-26-6-B/10-R
	14 (4.2672)	A1462RC-ND	8.30	7.05	5.96	5.09	AT-K-C-26-6-B/14-R
Silver	5 (1.524)	A0563RC-ND	3.43	2.91	2.46	2.11	AT-K-C-26-6-S/5-R
	7 (2.1336)	A0763RC-ND	5.22	4.44	3.75	3.21	AT-K-C-26-6-S/7-R
	10 (3.048)	A1063RC-ND	6.79	5.77	4.87	4.17	AT-K-C-26-6-S/10-R
	14 (4.2672)	A1463RC-ND	8.30	7.05	5.96	5.09	AT-K-C-26-6-S/14-R
8 Conductor							
White	5 (1.524)	A0581RC-ND	5.91	5.02	4.24	3.63	AT-K-C-26-8-W/5-R
	7 (2.1336)	A0781RC-ND	5.86	4.98	4.21	3.60	AT-K-C-26-8-W/7-R
	10 (3.048)	A1081RC-ND	9.01	7.66	6.47	5.53	AT-K-C-26-8-W/10-R
	14 (4.2672)	A1481RC-ND	10.14	8.61	7.28	6.22	AT-K-C-26-8-W/14-R
Black	5 (1.524)	A0582RC-ND	5.91	5.02	4.24	3.63	AT-K-C-26-8-B/5-R
	7 (2.1336)	A0782RC-ND	5.86	4.98	4.21	3.60	AT-K-C-26-8-B/7-R
	10 (3.048)	A1082RC-ND	9.01	7.66	6.47	5.53	AT-K-C-26-8-B/10-R
	14 (4.2672)	A1482RC-ND	10.14	8.61	7.28	6.22	AT-K-C-26-8-B/14-R
Silver	5 (1.524)	A0583RC-ND	5.91	5.02	4.24	3.63	AT-K-C-26-8-S/5-R
	7 (2.1336)	A0783RC-ND	5.86	4.98	4.21	3.60	AT-K-C-26-8-S/7-R
	10 (3.048)	A1083RC-ND	9.01	7.66	6.47	5.53	AT-K-C-26-8-S/10-R
	14 (4.2672)	A1483RC-ND	10.14	8.61	7.28	6.22	AT-K-C-26-8-S/14-R

Modular Plugs

Modular plugs have 50μ" selective gold plating with gold flash on the rest of the conductor.

Position/Contact	Digi-Key Part No.	Price Each 1	10	50	100	Assmann Part No.
4/4	AE10314-ND	.27	.24	.20	.17	A-MO-4/4-F50-R
6/4	AE10426-ND ***NEW!***	.47	.29	.17	.15	A-MO-6/4-F50-R
6/6	AE10315-ND	.27	.24	.20	.17	A-MO-6/6-F50-R
8/8	AE10316-ND	.33	.28	.24	.21	A-MO-8/8-F50-R
10/10	AE10317-ND	.63	.54	.46	.39	A-MO-10/10-F50-R

PHŒNIX CONTACT
INSPIRING INNOVATIONS

Thru Panel USB Socket Inserts A and B Types

Fig. 1

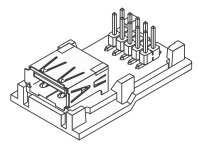

Fig. 2

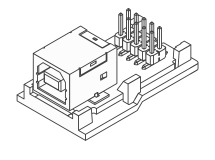

Fig. 3

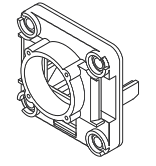

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
		A-Type				
1	4 Postitions	277-2024-ND	20.84	19.18	16.89	1653854
		B-Type				
2	4 Postitions	277-2025-ND	20.84	19.18	16.89	1653867
		Panel Mounting Frame				
3	Gray in Color	277-2063-ND	4.29	3.69	3.25	1653744

Pluscon Circular Connectors

M12 flush type connectors and panel feed-throughs has been developed from the various requirements of sensor/actuator device connection technology in the industrial sector.
Rating: IP67, D-Coded.

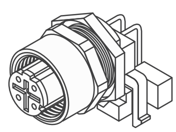

Unshielded Shown

Description	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
	Shielded				
4 Positions, Straight Solder	277-2018-ND	10.99	10.12	8.91	1542619
4 Positions, Right Angle Solder	277-2019-ND	21.43	19.72	17.36	1534630
	Unshielded				
4 Positions, Straight Screw Mount	277-2020-ND	11.92	10.97	9.66	1551503
4 Positions, Straight Screw Mount	277-2021-ND	16.22	14.93	13.14	1552272
	Adapters from M12 to RJ45				
Right Angle	277-2022-ND	34.40	31.65	27.87	1657261
Straight	277-2023-ND	34.40	31.65	27.87	1657494

Modular Jacks and Panel Mount Frames

Fig. 1

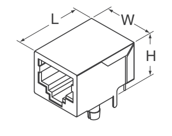

Fig. 2

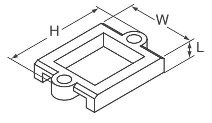

Fig. 3

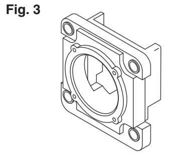

Fig.	Description	Dimensions L x W x H (mm)	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
			Modular Jacks				
1	8x1 Port R/A	21.6 x 16.1 x 14	277-1675-ND	4.87	4.19	3.69	1688586
	8x2 Ports R/A	22 x 31.85 x 14	277-1676-ND	15.78	14.52	12.79	1688599
	8x4 Ports R/A	22 x 59.79 x 14	277-1677-ND	31.66	29.13	25.65	1688609
	8x6 Ports R/A	22 x 87.73 x 14	277-1678-ND	46.91	43.16	38.00	1688612
	8x8 Ports R/A	22 x 115.67 x 14	277-1679-ND	62.12	57.16	50.32	1688625
			Panel Mount Frames				
2	1 Position	4 x 18 x 26.37	277-1680-ND	2.49	2.15	1.89	1688641
	2 Positions	4 x 31.97 x 26.37	277-1681-ND	3.07	2.64	2.33	1688654
	4 Positions	4 x 59.91 x 26.37	277-1682-ND	5.74	4.94	4.35	1688667
	6 Positions	4 x 87.85 x 26.37	277-1683-ND	6.17	5.68	5.00	1688670
	8 Positions	4 x 115.79 x 26.37	277-1684-ND	7.68	7.07	6.23	1688683
			Panel Cutout Mounting Frames				
3	Gray in Color	—	277-2016-ND	4.09	3.52	3.10	1689446
	Black in Color	—	277-2017-ND	4.09	3.52	3.10	1658655

Ethernet Switches

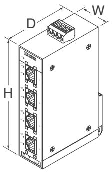

The FL SWITCH SFN range of factory line switches with standard functions in numerous versions can be used for quick and cost effective Ethernet network expansion.

Specifications: • Transmission speed: 10/100 Mbit/s (RJ45) • Basic functionality: Unmanaged switch autonegotiation, complies with IEEE 802.3, store and forward switching mode • Supply voltage: 24VDC

Description	Dimensions D x W x H (mm)	Digi-Key Part No.	Price Each	Phoenix Contact Part No.
5 Ports	70 x 30 x 120	277-2014-ND	110.14	2891152
8 Ports	70 x 50 x 120	277-2015-ND	176.89	2891929

Paladin Tools® Tools

SureStrip® 4.0:

High quality wire stripping and cutting tool for 20 ~ 12AWG (0.5mm ~ 4.0mm^2) • Strips stranded and solid conductors with PVC insulation • Strips multiple conductors and thin, ribbon-cable conductors simultaneously • Built-in wire cutter • Precision self-adjusting blades prevent wire damage • Strips double-insulated cable in two work cycles • User-replaceable stripping blades • Adjustable wire stop to set strip lengths • Value stripper to prepare wire for wire and ferrule termination

Mini-Stripax® Plus:

Universal wire stripper and cutter that uses changeable blades to strip PVC and Teflon® insulation. Strips PVC-insulated wire in the range of 28 ~ 18AWG (0.80mm ~ 1.0mm^2) and Teflon-insulated wire in the range of 32 ~ 18AWG (.032mm ~ 1.00mm^2) • Strips flexible and solid conductors with PVC, Teflon, silicone and other special insulations • Strips multiple conductors and thin ribbon-cable conductors simultaneously • Adjustable wire stop and built-in wire cutter • 28 ~ 18AWG (0.80mm ~ 1.00mm^2) PVC blade included

Stripax® Pro 6 Strippers:

The new stripax performs powerful stripping of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. Stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.

Mini-Stripax® Plus

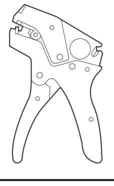

Stripax® Pro 6

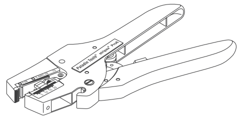

Description	Digi-Key Part No.	Price Each	Paladin Tools Part No.
Sure Strip 4.0 (AWG 20 ~ 12)	PA904893-ND	72.99	904893
Mini-Stripax Plus (AWG 28 ~ 18)	PA1115P-ND	96.99	1115P
Replacement Blade for PAL1115-ND	PA2108-ND	29.99	2108
Stripax Pro 6 (AWG 28 ~ 10)	PA1113-ND	89.99	1113

Crimp Tools

- Fully ratcheting cycle
- Adjustable crimp tension
- Hardened dies for long life
- Crimp 4, 6, and 8 positions
- Cuts and strips cable
- RJ45, RJ11

PA1530R-ND

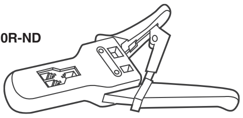

PA1530R-ND	Modular Crimp Tool	**$129.99**
PA2530-ND	Replacement Blade Set (for 1530R)	**$9.99**

Cable Tester

Features:

- Tests over 20 types of patch cables up to 1,000 feet in length (600 feet for 75Ω coax)
- LAN and telephone
- Serial
- Coax 50Ω and 75Ω
- USB
- VGA
- Mini- SB
- S-video
- FireWire
- PS/2 keyboard
- Parallel printer
- 9V battery included

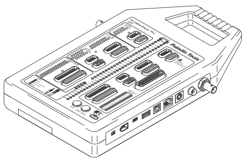

PA1577-ND	Tool PC Cable Tester	**$189.99**

Data and Telephone Tool

Features:

- Crimping cavities for RJ45, RJ11/RJ12 and RJ22 handset modular plugs
- Cuts and strips round UTP/STP phone and data cable along with flat satin phone cable
- 22 ~ 28AWG (.08mm ~ .34mm^2) flat or round; solid or stranded telephone and data cables

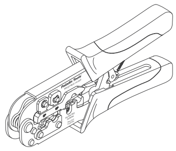

PA1556-ND	All-in-One Data and Telephone Tool	**$46.99**

AMP Modular Connectors and Jacks

Modular Plugs: **Product Facts:** • FCC and TIA/EIA industry standard size and performance • True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One-piece construction with preloaded contacts • Selectively gold plated terminals • Plugs supplied in loose piece form, some available in strip form • Various positions and housing styles available • Semiautomatic and manual termination capabilities **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ **Mechanical Specifications:** • Cable-to-plug tensile strength: 17lbs. (76N) minimum • Durability: 750 mating cycles • Temperature Rating: -40°C ~ 60°C

External Strain Relief: **Product Facts:** • Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage of housing • For 8 ~ 10 position plugs

Single-Port Modular Jacks: **Product Facts:** • Meets or exceeds FCC Part 68 rules and regulations; REA PE-76 and UL 1863 Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on PC boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • All jacks are UL 94V-0 flame retardant polyester, standard color black, unless specified otherwise **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC, RMS, 60Hz, 1 minute • Surge Test: to 1000 volts **Mechanical Specifications:** • PC Board Retention: will not dislodge from PC board when subjected to 1lb. (4.4N) pull before soldering and 10lbs. (44N) pull after soldering • Durability: 750 mating cycles **Material and Finish:** • Housing: Thru-hole: Polyester, UL 94V-0 rated; Surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact: .014 (0.36) thick phosphor bronze; plated .50µ" gold in contact area and 150µ" tin-lead on solder tails, over .50µ" nickel underplate

Multi-Port Modular Jacks: **Product Facts:** • Meets or exceeds FCC Part 68 rules and regulations with standard pc board footprints • Low profile and narrow width allow more ports to be packed into less space • Unshielded and shielded versions in popular size configurations • Positive connection throughout life of equipment with insert molded contacts • Accurately positioned solder tails reduce assembly labor while selectively deposited gold plating results in lower cost • Center mounting leg available on 8 port shielded and unshielded versions • Available with two grounding paths; pc board and panel **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ • Shielding Effectiveness: 20dB minimum, 10 ~ 200 MHz **Mechanical Specifications:** • Durability: 750 mating cycles • Mating/Unmating Forces: 5lbs. maximum • Operating Temperature: -40°C ~ 60°C **Material and Finish:** • Housing: High temperature nylon, black UL 94V-0 rated • Contact: .013 (0.33) phosphor bronze; plated .50µ" gold in localized area and 150µ" tin-lead on solder tails, over .50µ" nickel underplate • Shield: .010 (0.25) or .0077 (0.20) copper alloy tin-lead plated

Fig. 1 – Standard

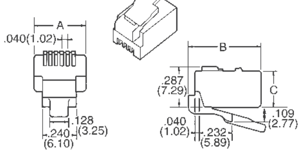

Fig. 2 – Standard

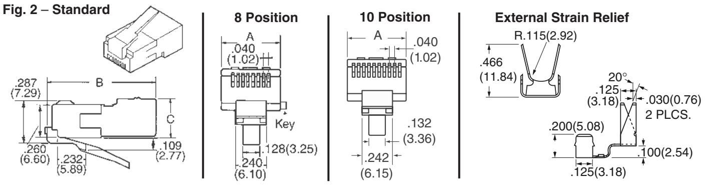
8 Position

10 Position

External Strain Relief

Fig. 3 – Top Entry

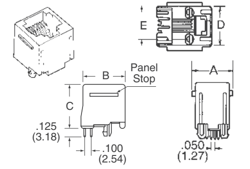

Fig. 4 – Top Entry

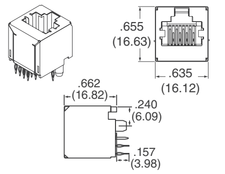

Fig. 5 – Top Entry with Wings

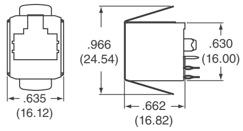

Fig. 6 – SMD Top Entry Invertible

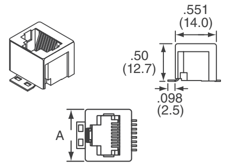

Fig. 7 – Side Entry

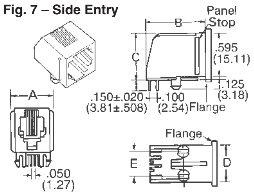

Fig. 8 – Side Entry Inverted

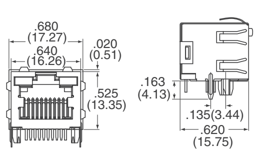

Fig.	Description	Positions Contacts	Dimensions - Inch (mm)					Digi-Key Part No.	Price Each			AMP Part No.
			A	B	C	D	E		1	25	100	
Modular Plugs and External Strain Relief												
1	Plug, Handset, Stranded, Flat Oval	4-4	.300 (7.62)	.525 (13.33)	.260 (6.60)	—	—	A9091-ND	.30	.25	.19	5-641334-3
	Plug, Stranded, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9092-ND	.30	.25	.19	5-641335-3
	Plug, Solid, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9116-ND	.45	.37	.29	5-556384-3
	Plug, Stranded, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9093-ND	.61	.50	.38	5-641337-3
	Plug, Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9118-ND	.46	.37	.30	5-555042-3
	Plug, Stranded, Round	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9117-ND	.43	.35	.28	5-554710-3
	Plug, Small Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9119-ND	.41	.33	.27	5-557970-3
	Plug, Long Body, Solid, Flat Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9120-ND	.92	.74	.60	5-555426-3
	Plug, Stranded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9122-ND	.86	.70	.56	5-555177-3
	Plug, Stranded, Flat Oval, Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9121-ND	.86	.70	.56	5-555176-3
	Plug, Stranded, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9128-ND	2.20	1.76	1.41	5-555175-3
	Plug, Shielded, Long Body, Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9027-ND	3.23	2.59	2.07	5-555174-2
	Plug, Stranded, Flat Oval	6-2	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24921-ND	.32	.26	.21	5-641333-2
	Plug, Solid, Flat Oval, Small	6-4	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24922-ND§	.52	.42	.34	5-557965-2
2	Plug, Stranded, Flat Oval	8-8	.460 (11.68)	.845 (21.46)	.312 (7.92)	—	—	A9094-ND	.69	.56	.43	5-554739-3
	Plug, Solid, Flat Oval	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9126-ND	.92	.74	.60	5-554720-3
	Plug, Solid, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9123-ND	.69	.56	.45	5-557315-3
	Plug, Stranded, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9125-ND	.65	.52	.42	5-554169-3
	Plug, Stranded, Small, Round, Cable	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24923-ND	.74	.60	.48	5-557961-2
	Plug, Solid, Round, Keyed	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9127-ND	.65	.52	.42	5-554170-3
	Plug, High Performance, Stranded, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9059-ND	1.00	.81	.65	5-558530-3
	Plug, Stranded, Shielded, High Perform., Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9111-ND	2.17	1.74	1.40	5-569552-3
	Plug, Solid, Shielded, High Performance, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9112-ND	2.27	1.82	1.46	5-569550-3
	Plug, Solid, Unshielded, High Performance	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24920-ND	1.02	.82	.66	5-569278-3
	Plug, Solid, Flat Oval, Small	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24924-ND§	.69	.56	.45	5-557972-2
	Plug, Stranded, Flat Oval, Small	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24925-ND§	.71	.57	.46	5-557973-3
	Plug, Stranded, Shielded, Flat Oval	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9113-ND	2.21	1.77	1.42	5-569542-3
	Plug, Stranded, Shielded, Round Long	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9114-ND	2.29	1.83	1.47	5-569532-3
	Plug, Solid, Shielded, Round	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9115-ND	2.19	1.76	1.41	5-569530-3
	Plug, Stranded, Round	10-10	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9129-ND	1.28	1.03	.82	5-557963-3
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND	—	.86	.78	558527-1
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	259.20	—	—	224928-1
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	207.90	—	—	224928-2
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	45.36	—	—	354940-1
Single-Port Modular Jacks												
3	Jack With Stops	4-4	.555 (14.10)	.630 (16.00)	.650 (16.51)	.455 (11.56)	.300 (7.62)	A31409-ND	.89	.77	.61	5520257-2
	Jack With Stops	6-4	.635 (16.13)	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31410-ND	.95	.82	.65	5520258-2
	Jack With Panel Stops	6-6	.635 (16.13)	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31411-ND	.98	.84	.67	5520258-3
	Jack With Stops	8-8	.715 (18.16)	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31412-ND	1.00	.87	.69	5520259-4
	Jack With Stops, Keyed	8-8	.715 (18.16)	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31413-ND	1.07	.93	.74	5520260-4
	Jack, Top Entry Without Stops	4-4	—	.630 (16.00)	.650 (16.51)	.455 (11.56)	.300 (7.62)	A31431-ND	.95	.82	.65	5558872-1
	Jack, Top Entry Without Stops	6-4	—	.630 (16.00)	.650 (16.51)	.535 (13.59)	.400 (10.16)	A31414-ND	1.11	.96	.76	5520425-2
	Jack, Top Entry Without Stops	6-6	—	.630 (16.00)	.650 (16.51)	.535 (13.59)	.450 (11.43)	A31415-ND	1.18	1.02	.80	5520425-3
	Jack, Top Entry Without Stops	8-8	—	.630 (16.00)	.650 (16.51)	.625 (15.88)	.450 (11.43)	A31428-ND	.84	.73	.58	5556416-1
	Jack, Top Entry Without Stops, Keyed	8-8	—	.630 (16.00)	.650 (16.51)	.620 (15.75)	.450 (11.43)	A31425-ND	1.45	1.25	.99	5555799-1
	Jack, Top Entry With Stops, Shielded	8-8	.710 (18.03)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A98458-ND	2.85	2.38	1.90	5557484-1
	Jack, Top Entry With Stops, Shielded	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A31430-ND	1.63	1.41	1.11	5557969-1
	Jack, Top Entry With Stops, Shielded	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A97708-ND	2.52	2.17	1.72	5557969-2
	Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A31429-ND	1.71	1.47	1.17	5557730-1
	Jack, Top Entry With Stops, Offset Latch	6-6	.630 (16.00)	.630 (16.00)	.645 (16.38)	.535 (13.59)	.400 (10.16)	A36246-ND	1.01	.88	.69	5554990-1
	Jack, Top Entry With Stops	6-6	0.630 (16.0)	0.5 (12.7)	0.646 (16.4)	—	—	A99307CT-ND†	1.49	—	.90	216548-1
	Jack, Top Entry With Stops	6-6	0.630 (16.0)	0.5 (12.7)	0.646 (16.4)	—	—	A99307TR-ND‡		512.12/800		216548-1
	Jack, Top Entry With Stops	8-8	0.709 (18.00)	0.5 (12.7)	0.646 (16.4)	—	—	A99308CT-ND†	1.42	—	.86	216550-1
	Jack, Top Entry With Stops	8-8	0.709 (18.00)	0.5 (12.7)	0.646 (16.4)	—	—	A99308TR-ND‡		487.69/800		216550-1

† Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP Modular Connectors and Jacks *(Cont.)*

Fig. 9 – Side Entry

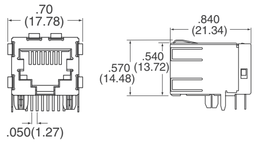

Fig. 10 – Side Entry

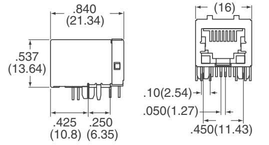

Fig. 11 – Side Entry, Low Profile

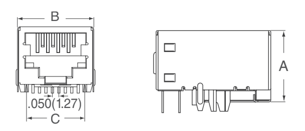

Fig. 12 – Side Entry

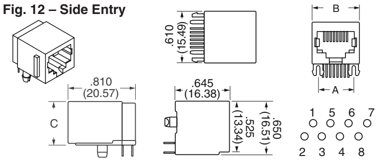

Fig. 13 – Side Entry, Low Profile

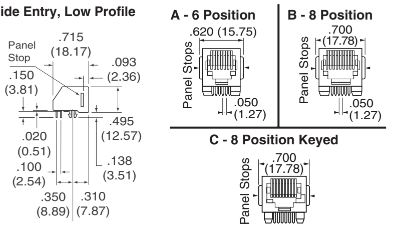
A - 6 Position

B - 8 Position

C - 8 Position Keyed

Fig. 14 – Side Entry

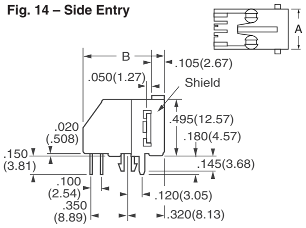

Fig. 15 – Side Entry, Surface Mount

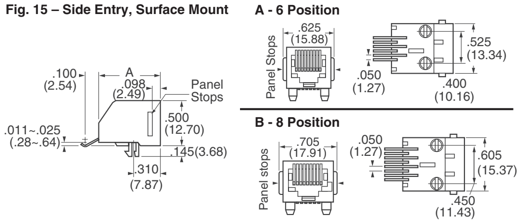
A - 6 Position

B - 8 Position

Fig. 16 – Side Entry

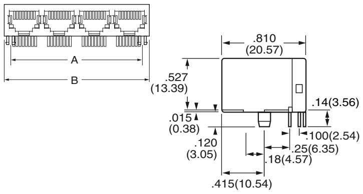

Fig. 17 – Side Entry

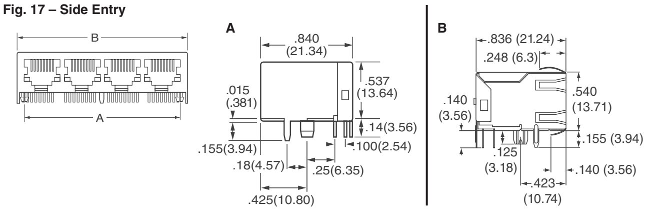

Fig. 18 – Side Entry

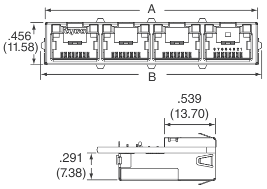

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
4	Jack Without Stops, PCB Ground	8-8	—	—	—	—	—	A97702-ND	3.78	3.25	2.57	6116202-1
5	Jack Without Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97711-ND	3.78	3.25	2.57	6116418-1
6	Jack, Top Entry	6-6	.525 (13.35)	—	—	—	—	A99305CT-ND†	2.94	—	1.77	1-338086-3
	Jack, Top Entry	6-6	.525 (13.35)	—	—	—	—	A99305TR-ND‡		378.09/300		1-338086-3
	Jack, Top Entry	8-8	.612 (15.55)	—	—	—	—	A99306CT-ND†	2.00	—	1.21	1-338088-3
	Jack, Top Entry	8-8	.612 (15.55)	—	—	—	—	A99306TR-ND‡		214.71/250		1-338088-3
	Jack Without Stops, Without Grounding Options	8-8	.612 (15.55)	—	—	—	—	A98534CT-ND†	1.68	1.35	1.08	1-338088-6
	Jack Without Stops, Without Grounding Options	8-8	.612 (15.55)	—	—	—	—	A98534TR-ND‡		235.49/250		1-338088-6
7	Jack, Side Entry With Panel Stops	4-4	.540 (13.72)	.825 (20.96)	.630 (16.00)	.440 (11.18)	.300 (7.62)	A31403-ND	1.33	1.15	.91	5520249-2
	Jack, Side Entry With Panel Stops	6-2	.620 (15.75)	.825 (20.96)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31404-ND	1.00	.87	.69	5520250-1
	Jack, Side Entry With Panel Stops	6-4	.620 (15.75)	.825 (20.96)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31405-ND	1.03	.89	.71	5520250-2
	Jack, Side Entry With Panel Stops	6-6	.620 (15.75)	.825 (20.96)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31406-ND	1.07	.92	.73	5520250-3
	Jack, Side Entry With Panel Stops, Offset	6-6	.625 (15.88)	.820 (20.83)	.635 (16.13)	.525 (13.34)	.400 (10.16)	A32488-ND	1.03	.83	.66	5555003-1
	Jack, Side Entry With Panel Stops	8-8	.700 (17.78)	.825 (20.96)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A31407-ND	1.20	1.04	.82	5520251-4
	Jack, Side Entry With Panel Stops, Keyed	8-8	.700 (17.78)	.820 (20.83)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A31408-ND	1.09	.94	.75	5520252-4
	Jack, Side Entry With Flange	4-4	.570 (14.48)	.825 (20.96)	.680 (17.27)	.440 (11.18)	.300 (7.62)	A31399-ND	1.31	1.13	.89	5520241-2
	Jack, Side Entry With Flange	6-4	.650 (16.51)	.825 (20.96)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A31400-ND	1.01	.87	.69	5520242-2
	Jack, Side Entry With Flange	6-6	.650 (16.51)	.825 (20.96)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A31401-ND	1.05	.91	.72	5520242-3
	Jack, Side Entry With Flange	8-8	.730 (18.54)	.810 (20.57)	.680 (17.27)	.600 (15.24)	.450 (11.43)	A31402-ND	1.77	1.53	1.21	5520243-4
	Jack Without Panel Stops and Flange	4-4	.440 (11.18)	.810 (20.57)	.630 (16.00)	—	.300 (7.62)	A31427-ND	1.02	.88	.70	5555980-1
	Jack Without Panel Stops and Flange	6-4	.520 (13.21)	.820 (20.83)	.630 (16.00)	—	.400 (10.16)	A31426-ND	.97	.84	.66	5555979-1
	Jack Without Panel Stops and Flange	6-6	.520 (13.21)	.820 (20.83)	.630 (16.00)	—	.400 (10.16)	A31417-ND	1.62	1.40	1.11	5520470-3
	Jack Without Panel Stops and Flange	8-8	.600 (15.24)	.820 (20.83)	.630 (16.00)	—	.450 (11.43)	A31416-ND	1.19	1.02	.81	5520426-4
	Jack Without Panel Stops and Flange, Keyed	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A31418-ND	2.25	1.94	1.53	5554517-1
8	Jack w/o Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97716-ND	2.46	2.12	1.68	1-406541-1
	Jack w/o Stops, Panel and PCB Ground, w/ Yel-Grn LED	8-8	—	—	—	—	—	A97715-ND	3.10	2.67	2.11	2-406549-1
	Jack w/o Stops, Panel and PCB Ground, w/ Grn-Yel LED	8-8	—	—	—	—	—	A97705-ND	3.10	2.67	2.11	2-406549-4
9	Jack Without Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97706-ND	3.93	3.38	2.67	5406299-1
10	Jack w/o Stops, PCB Ground	8-8	—	—	—	—	—	A97707-ND	3.30	2.84	2.25	5557786-1
	Jack w/o Stops, Panel and PCB Ground, w/ Grn-Yel LED	8-8	—	—	—	—	—	A97717-ND	7.50	6.45	5.10	5569564-1
11	Jack Without Stops, PCB Ground	8-8	.447 (11.35)	.590 (15.00)	.451 (11.45)	—	—	A97703-ND	4.33	3.72	2.95	1116503-2
	Jack, Side Entry, Shielded, Panel and PCB Ground	8-8	.474 (12.05)	.650 (16.5)	.350 (8.9)	—	—	A99304-ND	3.08	2.66	2.10	106066-2
12	Jack, Unshielded With Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A31467-ND	4.38	3.77	2.98	5558343-1
	Jack, Unshielded Without Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A31465-ND	2.54	2.18	1.73	5558341-1
	Jack, Shielded, PC Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A31466-ND	3.12	2.50	2.00	5558342-1
	Jack, Shielded, Panel Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A31468-ND	3.93	3.14	2.52	5558344-1
13A	Jack With Stops	6-6	—	—	—	—	—	A31420-ND	1.17	1.01	.80	5555163-1
	Jack With Stops	6-4	—	—	—	—	—	A31421-ND	1.13	.97	.77	5555163-2
	Jack Without Stops	6-6	—	—	—	—	—	A31422-ND	1.03	.89	.71	5555165-1
	Jack Without Stops	6-4	—	—	—	—	—	A31423-ND	.99	.85	.68	5555165-2
	Jack Without Stops	6-2	—	—	—	—	—	A31443-ND	.90	.78	.62	5555165-5
	Jack Without Stops	6-6	—	—	—	—	—	A31476-ND	1.38	1.19	.94	5569026-1
13B	Jack With Stops	8-8	—	—	—	—	—	A31419-ND	1.26	1.09	.86	5555162-1
	Jack Without Stops	8-8	—	—	—	—	—	A31442-ND	1.12	.96	.76	5555164-1
	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A31477-ND	1.50	1.29	1.02	5569118-1
13C	Jack With Stops, Keyed	8-8	—	—	—	—	—	A31424-ND	1.24	1.07	.85	5555166-1
	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A31444-ND	1.12	.96	.76	5555167-1
14	Jack, PC Ground	6-6	.559 (14.20)	.730 (18.54)	—	—	—	A31440-ND	1.48	1.19	.95	5555154-1
	Jack, PC Ground	6-4	.559 (14.20)	.730 (18.54)	—	—	—	A31441-ND	1.40	1.13	.90	5555154-2
	Jack, PC Ground	8-8	.640 (16.26)	.735 (18.67)	—	—	—	A31438-ND	1.59	1.27	1.02	5555153-1
	Jack, PC Ground	8-8	.640 (16.26)	.735 (18.67)	—	—	—	A31439-ND	1.59	1.27	1.02	5555153-6
	Jack, PC Ground, Keyed	8-8	.640 (16.26)	.735 (18.67)	—	—	—	A31447-ND	1.68	1.35	1.08	5556591-1
	Jack, Panel Ground	6-6	.559 (14.20)	.730 (18.54)	—	—	—	A31435-ND	1.40	1.13	.90	5555140-1
	Jack, Panel Ground	6-4	.559 (14.20)	.730 (18.54)	—	—	—	A31436-ND	1.38	1.11	.89	5555140-2
	Jack, Panel Ground	8-8	.640 (16.26)	.735 (18.67)	—	—	—	A31437-ND	1.76	1.42	1.13	5555141-1
	Jack With Stops, Shielded	8-8	.635 (16.13)	.728 (18.49)	—	—	—	A31464-ND	2.59	2.08	1.66	5558178-1

† Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP Modular Connectors and Jacks *(Cont.)*

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
15A	Jack With Stops	6-6	.720 (18.29)	—	—	—	—	A31432-ND	2.13	1.83	1.45	5555077-1
	Jack With Stops	6-4	.720 (18.29)	—	—	—	—	A31433-ND	2.10	1.81	1.44	5555077-2
	Jack Without Stops	6-6	.720 (18.29)	—	—	—	—	A31448-ND	2.13	1.84	1.45	5557314-1
15B	Jack With Stops	8-8	.718 (18.24)	—	—	—	—	A31445-ND	2.36	2.03	1.61	5555248-1
	Jack With Stops	8-8	.718 (18.24)	—	—	—	—	A31434-ND	2.38	2.05	1.62	5555078-1
	Jack Without Stops	8-8	.718 (18.24)	—	—	—	—	A31446-ND	2.33	2.01	1.59	5555764-1
16	Jack, Unshielded	8-8	.450 (11.43)	.595 (15.11)	—	—	—	A31457-ND	1.74	1.50	1.19	5557785-1
	Jack, Unshielded	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A31459-ND	2.92	2.52	1.99	5558065-1
	Jack, Unshielded, Keyed	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A31460-ND	4.20	3.61	2.86	5558066-1
17A	Jack, Shielded, PCB Ground	10-10	.450 (11.43)	.625 (15.88)	—	—	—	A31461-ND	4.68	3.75	3.00	5558067-1
	Jack, Shielded, Keyed, PCB Ground	10-10	.450 (11.43)	.625 (15.88)	—	—	—	A31462-ND	7.35	5.89	4.71	5558068-1
	Jack, Shielded, Panel Ground	10-10	.450 (11.43)	.625 (15.88)	—	—	—	A31463-ND	5.81	4.65	3.72	5558070-1
18	Jack, w/o Stops, Panel and PCB Ground, Grn-Yel LED	8-8	.641 (16.29)	.728 (18.49)	—	—	—	A98526-ND	5.28	4.22	3.38	1888250-1
	Jack, w/o Stops, Panel and PCB Ground, Grn/Yel-Grn/Yel LED	8-8	.641 (16.29)	.728 (18.49)	—	—	—	A98527-ND	6.48	5.18	4.15	1888250-2
	Jack, w/o Stops, Panel and PCB Ground, Without LED	8-8	.641 (16.29)	.728 (18.49)	—	—	—	A98528-ND	4.43	3.54	2.84	1888250-3
	Jack, w/o Stops, Panel and PCB Ground, Grn-Grn LED	8-8	.641 (16.29)	.728 (18.49)	—	—	—	A98529-ND	5.30	4.24	3.40	1888250-4
	Multi-Port Modular Jacks											
16	Jack, 2 Position, Unshielded	8-8	1.00 (25.40)	1.200 (30.48)	—	—	—	A31449-ND	2.95	2.54	2.01	5557560-1
	Jack, 3 Position, Unshielded	8-8	1.550 (39.37)	1.750 (44.45)	—	—	—	A31450-ND	7.90	6.80	5.38	5557561-1
	Jack, 4 Position, Unshielded	8-8	2.100 (53.34)	2.300 (58.42)	—	—	—	A31451-ND	5.70	4.91	3.88	5557562-1
	Jack, 5 Position, Unshielded	8-8	2.650 (67.31)	2.850 (72.39)	—	—	—	A31452-ND	7.35	6.33	5.00	5557563-1
	Jack, 6 Position, Unshielded	8-8	3.200 (81.28)	3.400 (86.36)	—	—	—	A31453-ND	8.55	7.36	5.82	5557564-1
	Jack, 6 Position, Unshielded Without Panel Stops	8-8	3.40 (86.36)	.810 (20.57)	—	—	—	A31469-ND	12.93	11.12	8.79	558501-1
	Jack, 8 Position, Unshielded	8-8	4.300 (109.22)	4.500 (114.30)	—	—	—	A31454-ND	11.68	10.05	7.94	5557566-1
17A	Jack, 4 Position, Shielded, PC Ground	8-8	2.33 (59.18)	.840 (21.34)	—	—	—	A31470-ND	13.03	10.42	8.34	5558503-1
	Jack, 4 Position, Shielded, Panel Ground	8-8	2.33 (59.18)	.840 (21.34)	—	—	—	A31473-ND	13.80	11.04	8.84	5558524-1
	Jack, 6 Position, Shielded, PCB Ground	8-8	3.200 (81.28)	3.430 (87.12)	—	—	—	A31455-ND	16.98	14.60	11.55	5557572-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.200 (81.28)	3.430 (87.12)	—	—	—	A31456-ND	15.95	13.72	10.85	5557572-3
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.40 (86.36)	.810 (20.57)	—	—	—	A31474-ND	16.18	12.94	10.36	5558525-1
	Jack, 8 Position, Shielded, PC Ground	8-8	4.53 (115.06)	.840 (21.34)	—	—	—	A31472-ND	27.30	21.84	17.48	5558505-1
	Jack, 8 Position, Shielded, Panel Ground	8-8	4.53 (115.06)	.840 (21.34)	—	—	—	A31475-ND	27.58	22.06	17.65	5558526-1
17B	Jack, 8 Position, Shielded, Panel and PCB Ground	8-8	4.30 (109.22)	4.526 (114.95)	—	—	—	A97712-ND	12.90	11.10	8.78	6339169-3
18	Jack, 4 Position, Shielded, Panel & PCB Gnd., Grn-Yel LED	8-8	2.313 (58.75)	2.378 (60.40)	—	—	—	A98530-ND	14.50	11.60	9.28	1888251-1
	Jack, 4 Pos., Shielded, Panel & PCB Gnd., Grn/Yel-Grn/Yel LED	8-8	2.313 (58.75)	2.378 (60.40)	—	—	—	A98531-ND	18.38	14.70	11.76	1888251-2
	Jack, 4 Position, Shielded, Panel & PCB Gnd., Without LED	8-8	2.313 (58.75)	2.378 (60.40)	—	—	—	A98532-ND	11.45	9.16	7.33	1888251-3
	Jack, 4 Position, Shielded, Panel & PCB Gnd., Grn-Grn LED	8-8	2.313 (58.75)	2.378 (60.40)	—	—	—	A98533-ND	14.25	11.40	9.12	1888251-4

† Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

Corcom Filtered Modular Jacks

Jack design and component selection compatible with equipment registered under FCC Part 68, UL Recognized, CSA Certified, U.S. Patent No. 4,695,115, U.S. Patent No. 4,772,224 and a variety of international patents. RJ11 / RJ45 Series, Shielded: The metal shield provides additional protection, and is available with RFI gasket style spring fingers to provide a low impedance ground path across the interface.

Fig. 1

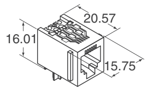

Fig. 2

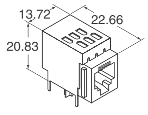

Fig. 3

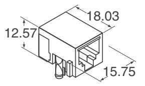

Fig. 4

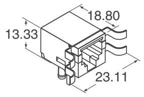

Fig. 5

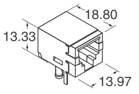

Fig. 6

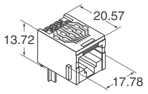

Fig. 7

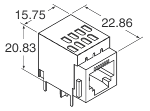

Fig. 8

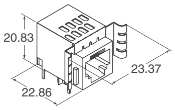

Fig. 9

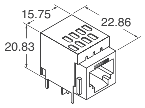

Fig. 10

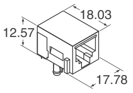

Fig. 11

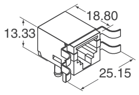

Fig. 12

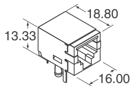

Fig. 13

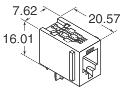

Fig.	Description	Pos.- Contacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
	RJ11 Series							
1	Unshielded	6-2	Sleeves	CCM9000-ND	3.24	2.95	2.50	RJ11-2L-S
	Unshielded	6-4	Sleeves	CCM9001-ND	3.62	3.30	2.79	RJ11-4L-S
	Unshielded	6-6	Sleeves	CCM9002-ND	3.94	3.59	3.04	RJ11-6L-S
	Unshielded	6-2	Block	CCM9003-ND	3.38	3.08	2.61	RJ11-2L-B
	Unshielded	6-4	Block	CCM9004-ND	4.08	3.72	3.15	RJ11-4L-B
	Unshielded	6-6	Block	CCM9005-ND	4.02	3.66	3.10	RJ11-6L-B
2	Shielded	6-4	Sleeves*	CCM9010-ND	4.72	4.30	3.64	RJ11-4L2-S
	Shielded	6-6	Sleeves*	CCM9011-ND	5.08	4.63	3.92	RJ11-6L2-S
	Shielded	6-4	Block*	CCM9012-ND	5.06	4.61	3.90	RJ11-4L2-B
	Shielded	6-6	Block*	CCM9013-ND	5.06	4.61	3.90	RJ11-6L2-B
3	Unshielded	6-6	Block	CCM1394-ND	3.28	2.99	2.53	RJ11-6N-B
4	Shielded	6-6	Block	CCM1396-ND	4.06	3.70	3.13	RJ11-6N3-B
5	Shielded	6-6	Block	CCM1398-ND	4.06	3.70	3.13	RJ11-6N4-B

Fig.	Description	Pos.- Contacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
	RJ45 Series							
6	Unshielded	8-8	Sleeves	CCM9050-ND	4.54	4.14	3.50	RJ45-8L-S
	Unshielded	8-8	Block	CCM9052-ND	4.24	3.86	3.27	RJ45-8L-B
	Unshielded	8-8	Unfiltered	CCM1755-ND	2.74	2.50	2.11	RJ45-8X
7	Shielded	8-8	Sleeves*	CCM9051-ND	5.98	5.45	4.61	RJ45-8L2-S
	Shielded	8-8	Block*	CCM9053-ND	5.58	5.08	4.30	RJ45-8L2-B
8	Shielded	8-8	Sleeves	CCM1390-ND	20.12	18.31	15.50	RJ45-8LCT1-S
	Shielded	8-8	Block	CCM1391-ND	20.02	18.22	15.42	RJ45-8LCT1-B
9	Shielded	8-8	Sleeves	CCM1392-ND	20.24	18.42	15.59	RJ45-8LCT2-S
	Shielded	8-8	Block	CCM1393-ND	20.16	18.35	15.53	RJ45-8LCT2-B
10	Unshielded	8-8	Block	CCM1500-ND	3.46	3.15	2.67	RJ45-8N-B
	Unshielded	8-8	Sleeves	CCM1501-ND	3.92	3.57	3.02	RJ45-8N-S
11	Shielded	8-8	Block	CCM1502-ND	4.06	3.70	3.13	RJ45-8N3-B
	Shielded	8-8	Sleeves	CCM1503-ND	4.66	4.25	3.59	RJ45-8N3-S
12	Shielded	8-8	Block	CCM1504-ND	4.06	3.70	3.13	RJ45-8N4-B
	Shielded	8-8	Sleeves	CCM1505-ND	4.66	4.25	3.59	RJ45-8N4-S
	RJH Series							
13	Unshielded	4-4	Block	CCM9060-ND	3.92	3.57	3.02	RJH-4L-B

* Board Ground (pins only) ***Note: LCT Version incorporates 82Pf capacitors.***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP MAG 45™ Modular Jacks with Integrated Magnetics

Features: • Single Port • Through hole • UL recognized, UL 94V-0 • IEEE 802.3 and ANSI X3.263 compliant • Supports all appropriate and available PHY Chips and applications

Specifications: • Housing: Thermo plastic polyester • Impedance: 100Ω • Connector Style: RJ45/8 Position

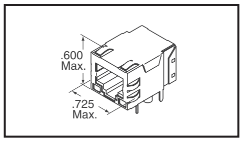

Tab Direction	LEDs	No. of Ports	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Side Entry							
10/100 Base T Ethernet							
Down	—	1	A99636-ND	7.78	6.69	5.91	6605424-1
Down	Green/Yellow	1	A99637-ND	8.58	7.38	6.52	5-6605308-1
Up	—	1	A99639-ND	7.53	6.48	5.72	6605759-1
Up	Green/Yellow	1	A99640-ND	9.00	7.74	6.84	5-6605758-1
Up	—	1x2	A99642-ND	12.95	11.14	9.85	5-6610000-1
Up	—	1x6	A99643-ND	27.90	24.00	21.21	5-6610084-1
10/100 Power Over Ethernet (POE)							
Down	Green/Green	1	A99644-ND	10.65	9.16	8.10	1-6605310-1
Up	Green/Green	1	A99645-ND	10.65	9.16	8.10	1-6605834-1
Gigabit Ethernet							
Down	Green/Yellow + Green/Yellow	1	A99638-ND	12.43	10.69	9.45	6605444-6
Up	Green/Yellow + Green/Yellow	1	A99641-ND	12.43	10.69	9.45	6605814-6

AMP Stacked Modular Jacks

Housing: Black, UL 94V-0 rated

Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate

Shield: .010 (0.25) copper alloy tin-lead plated. All jacks are 8 positions / 8 contacts

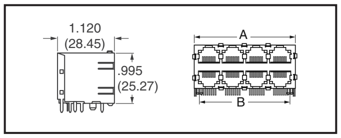

Desc.	Total No. of Ports	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded With Panel Ground (plating is tin rather than tin-lead)							
2x1 Ports	2	.68 (17.27)	.45 (11.43)	A31482-ND†	11.40	9.12	5569381-1
2x2 Ports	4	1.23 (31.24)	1.00 (25.40)	A97709-ND‡	14.10	12.13	5569255-1
2x2 Ports	4	1.23 (31.24)	1.00 (25.40)	A99309-ND†	19.50	16.77	5569260-1
2x3 Ports	6	1.78 (45.21)	1.55 (39.37)	A31478-ND†	21.63	17.30	5569261-1
2x4 Ports	8	2.33 (59.18)	2.10 (53.34)	A31479-ND†	16.90	13.52	5569262-1
2x6 Ports	12	3.43 (87.12)	3.20 (81.28)	A31480-ND†	23.80	19.04	5569263-1
2x8 Ports	16	4.53 (115.06)	4.30 (109.22)	A31481-ND†	37.13	29.70	5569264-1

† Panel Ground and PCB Ground ‡ PCB Ground only

AMP Stacked LED Modular Jacks

Housing: High temperature nylon, black, UL 94V-0 rated

Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate

Shield: .010 (0.25) copper alloy tin-lead plated. All jacks are 8 positions / 8 contacts

Fig. 1

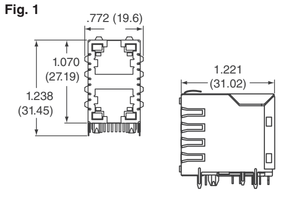

Fig. 2

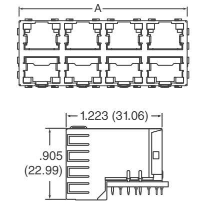

Fig.	Desc.	Total No. of Ports	Dimension A Inch (mm)	LED Color Top Left	Top Right	Bottom Left	Bottom Right	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	2x1 Ports	2	—	Green	Green	Green	Green	A97713-ND	27.25	23.44	6368011-1
	2x1 Ports	2	—	Green	Yellow	Green	Yellow	A97714-ND	17.78	15.29	6368011-3
2	2x4 Ports	8	2.355 (59.82)	Grn/Yel	Grn/Yel	Grn/Yel	Grn/Yel	A97704-ND	44.23	38.04	6368062-4
	2x8 Ports	16	4.655 (118.24)	Green	Yellow	Green	Yellow	A97710-ND	65.95	56.72	6116317-6

AMP Modular Jack with Shorting Bar

Housing: Polysulfone, black, UL 94V-0 rated

Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin on solder tails, over .000050 (0.00127) nickel underplate

Shield: .010 (0.25) copper alloy plated with bright tin over nickel

Description	Shorting Configurations	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded PCB Ground Jack					
8-Position RJ-48-X	1 to 4 and 2 to 5	A31458-ND	12.08	10.39	5557789-1

AMP Modular Crimp Tools

Fig. 1

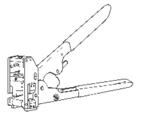

Cuts, strips, crimps and terminates modular plug connectors.

Features: color-coded dies, a cable jacket stripper, smooth ratcheting action to assure positive connector termination and spring-actuated and cushioned handles for fatigue-free use. Available as entire crimping tool, or dies may be purchased separately. Overall size: 7"

Fig. 2

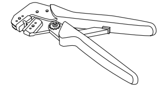

Ratchet control provides complete termination cycle Interchangeable die sets.

Fig.	Description	Digi-Key Part No.	Price Each	AMP Part No.
1	Modular Plug Crimp Tool without Die Set	A9931-ND	88.56	2-231652-0
	Modular Plug Crimp Tool with 4-4 Die Set	A9902-ND	131.04	2-231652-3
	Modular Plug Crimp Tool with 6-6 Die Set	A9901-ND	131.04	2-231652-8
	Modular Plug Crimp Tool with 6-6 Long Body Die Set	A9029-ND	131.04	2-231652-7
	Modular Plug Crimp Tool with 6-6 Offset Die Set	A9930-ND	131.04	2-231652-6
	Modular Plug Crimp Tool with 8-8 Die Set	A9900-ND	131.04	2-231652-1
	Modular Plug Crimp Tool w/ 8-8 High Performance Die Set	A9929-ND	131.04	3-231652-0
—	4-Position Handset Die Set	A9906-ND	44.67	853400-3
	4-6 Position Die Set	A9905-ND	44.67	853400-8
	6-6 Position Long Body Die Set	A9030-ND	44.67	853400-7
	6-6 Position Offset Die Set	A9927-ND	44.67	853400-6
	8-8 Position Die Set	A9904-ND	44.67	853400-1
	8-8 Position High Performance Die Set	A9926-ND	44.67	1-853400-0
	Replacement Wire Stripper Blade Set Kit	A9976-ND	44.33	231662-4
	Wire Stripper Replacement Blades	A9928-ND	4.31	231662-5
2	Pro-Crimper II Hand Tool without Dies	A9996-ND	45.36	354940-1
	10-Position, Pro-Crimper II with Die	A9798-ND	400.95	58560-1
—	10-Position Die Set Only, Pro-Crimper II (Use w/ A9996-ND)	A9799-ND	351.00	58560-2
	Crimp Tool, External Strain Relief, Pro-Crimper III	A9800-ND	259.20	224928-1
	Die Set, External Strain Relief (for A9800-ND)	A9801-ND	207.90	224928-2

Hand Tool Kit

Contents: Carrying case with frame; RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9040-ND	Hand Tool Kit	**$204.00**

Production Tool Kit

Carrying case with frame; 4-Pos. handset, RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9967-ND	Production Tool Kit	**$241.23**

AMP MRJ21 Receptacle

Features: • 1.5 ~ 3 times the port density of stacked Modular Jacks (RJ45); 3 times the port density of RJ21 • Contact layout and footprint for differential pairs creates reduced cross-talk and built in compensation • Connector is designed to meet or exceed CAT5e cross-talk • Fully shielded system to control EMI (Electro-magnetic Interference)

Housing: Thermoplastic, black, UL 94V-0 rated

Contacts: phosphor bronze; terminal plated with nickel; mating area plated with gold flash over palladium-nickel

Shield: 0.2 (0.008) brass plated with 1.98μm tin over 1.27μm nickel

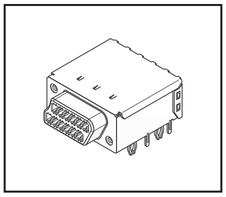

Description	No. of Pins	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
MRJ21, Shielded, Single, Right Angle, Thru-Hole	48	A99603-ND	23.82	21.58	15.29	1761482-1

Data Connector for the IEEE 802.5 Local Area Network

Dimensions in Inches (mm)

Fig. 1

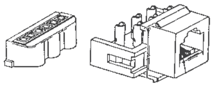

Three Pair Modular Jack (6 Position)

Fig. 2

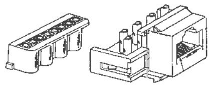

Four Pair Modular Jack (8 Position)

Fig. 3

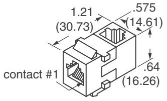

Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

Fig. 4

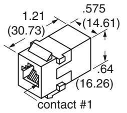

Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

Fig. 5

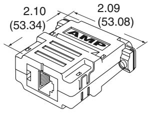

These versatile connectors convert a 25 position plug or receptacle interface to modular jack interface. Transition Connectors are used most often with data, data-over-voice and on the dropside or output device side of mainframes, personal or business computers.

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
				1	25	100	
Category 3 Modular Telephone Jack							
1	6	Commercial	A9105-ND	6.78	5.83	4.61	554171-1
2	8	IBM	A4005-ND	7.05	6.07	4.80	554546-1
Category 3 Panel Mount Coupler							
3	6	Right Angle	A9107-ND	5.48	4.38	3.51	555049-1
	8	Right Angle	A9108-ND	5.70	4.56	3.65	555051-1
4	6	In-Line	A9109-ND	5.75	4.60	3.68	555050-1
	8	In-Line	A9110-ND	6.55	5.24	4.20	555052-1
RS-232 to Modular Jack							
5	8	DB25P to RJ45 (8-8)	A33704-ND	31.44	26.20	20.96	747772-3
	8	DB25S to RJ45 (8-8)	A35053-ND	22.74	19.90	17.06	5-747868-1

Industrial Ethernet Connectors

Features: • Environmental sealing (IP67 rated) • Vibration resistance • Secure, robust connections • Provides for a reliable performance in electrically noisy conditions found on most factory floors • Compatible with Category 5e cable • Fully intermateable with unshielded product

Dimensions in Inches (mm)

Fig. 1

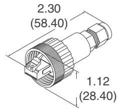

Fig. 2

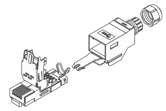

Fig. 3

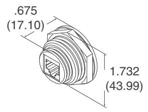

Fig. 4

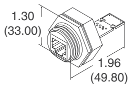

Fig. 5

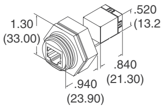

Fig. 6

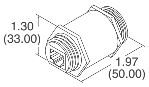

Fig. 7

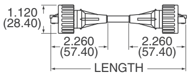

Fig. 8

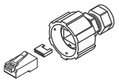

Fig. 9

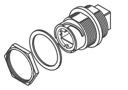

Fig. 10

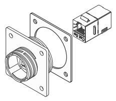

Fig.	Description	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
			1	25	100	
Plug						
1	Field-Attachable, 0.1" ~ 0.26" (2.5mm~6.5mm)Acceptable Cable Diameter	A30691-ND	16.91	15.68	12.13	1546440-1
2	IP20 RJ-45, 8 Position, 180 Degrees	A98812-ND	19.72	17.86	12.65	1903527-1
Receptacles						
3	Direct PCB Mount 8 Pin, Front-Coupling Through-Hole Receptacle	A34351-ND	21.55	19.97	15.45	1-1546405-1
4	Receptacle with Standard PC Board	A34355-ND	23.82	22.08	17.09	1-1546409-1
	(10 Base-T) with Standard PC Board and 12" (30cm) of Cable	A34356-ND	26.94	24.97	19.32	1-1546410-1
	(568A) with Standard PC Board with 12" (30cm) of Cable	A34357-ND	26.94	24.97	19.32	1-1546411-1
	(568B) with Standard PC Board with 12" (30cm) of Cable	A34358-ND	32.98	30.58	23.66	1-1546412-1
5	RJ-45 Bulkhead Passthrough with Backside RJ-45 Jack	A33706-ND	26.83	24.88	19.25	1546413-3
	RJ-45 Bulkhead Passthrough with 12" (30cm) of Patch Cord	A33707-ND	30.57	28.33	21.92	1546414-4
	RJ-11 Bulkhead Passthrough with Backside RJ-11 Jack	A34359-ND	25.75	23.87	18.47	1-1546415-1
Female-to-Female Adapters						
6	Female-Female RJ45 Jack-Jack	A30690-ND	59.37	55.03	42.58	1546574-1
Double-Ended Cord Set						
7	1 Meter (3.3') Solid Core Cable, Industrial (both ends)	A34360-ND	50.40	44.10	37.80	1-1546451-1
	5 Meter (16.4') Solid Core Cable, Industrial (both ends)	A34361-ND	68.46	59.91	51.35	1-1546451-2
	10 Meter (32.8') Solid Core Cable, Industrial (both ends)	A34362-ND	95.68	83.72	71.76	1-1546451-3
	2 Meter (6.6') Solid Core Cable, Industrial/ Commercial Ends	A34363-ND	65.42	57.25	49.07	1-1546451-4
Caps						
—	Connector Closure Cap IP67 with Lanyard	A34352-ND	13.82	12.81	9.91	1-1546406-1
	Connector Receptacle Cap IP65	A34353-ND	7.97	7.40	5.72	1-1546407-1

Fig.	Description	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
			1	25	100	
—	Connector Plug Cap IP67 with Lanyard	A34354-ND	14.08	13.06	10.10	1-1546408-1
	Connector Plug Cap IP67 with Lanyard (Bayonet Lock)	A98866-ND	4.63	3.98	3.15	1828740-1
	RJ-45 Receptacle Cover (Bayonet Lock)	A31780-ND	10.33	9.58	7.41	1738611-1
	RJ-45 Receptacle Cover with Ball Chain	A100171-ND ***NEW!***	20.66	19.16	14.82	2008618-1
Tool						
—	Punchdown, with 110 Blade	A30681-ND	62.37	—	—	1738607-1
Plug Kit						
8	RJ-45 Solid Plug Kit	A31778-ND†	11.66	10.82	8.37	1738607-1
	RJ-45 Stranded Plug Kit	A31779-ND†	11.66	10.82	8.37	1738607-2
	RJ-45 Shielded, Stranded Plug Kit	A100167-ND ***NEW!***	22.90	21.23	16.42	2008614-1
	RJ-45 Shielded, Solid Plug Kit	A100168-ND ***NEW!***	23.08	21.40	16.56	2008614-2
	RJ-45 Shielded CPC, Solid Plug Kit	A98813-ND‡	13.06	12.11	9.37	1546907-1
	RJ-45 Shielded CPC, Stranded Plug Kit	A98814-ND‡	13.06	12.11	9.37	1546907-2
	RJ-45 Unshielded, Stranded Plug Kit	A100165-ND ***NEW!***	20.64	19.14	14.81	2008611-1
	RJ-45 Unshielded, Solid Plug Kit	A100166-ND ***NEW!***	20.81	19.29	14.93	2008611-2
	RJ-45 Unshielded CPC, Solid Plug Kit	A98820-ND‡	9.64	8.93	6.91	1546876-1
	RJ-45 Unshielded CPC, Stranded Plug Kit	A98815-ND‡	9.64	8.93	6.91	1546876-2
	RJ-45 Common Core 8 Position Plug Kit	A99867-ND	17.83	15.33	12.13	1954656-2
Receptacle Kit						
9	RJ-45 Receptacle Kit	A31781-ND	22.84	21.17	16.38	1738601-1
	RJ-45 Unshielded CPC, Receptacle Kit	A100169-ND ***NEW!***	32.21	29.85	23.10	2008615-1
	RJ-45 Shielded CPC, Receptacle Kit	A100170-ND ***NEW!***	35.32	32.74	25.33	2008615-2
	RJ-45 Common Core Shielded Recept. Kit	A99868-ND	29.28	25.18	19.91	1811689-1
10	RJ-45 Shielded CPC, Rec. Kit, Passthrough	A98816-ND	27.92	25.88	20.03	1986172-1
	RJ-45 Shielded CPC, Receptacle Kit	A98817-ND	16.67	15.45	11.96	1546908-1
	RJ-45 Unshielded CPC, Receptacle Kit, Passthrough	A98818-ND	19.89	18.43	14.26	1776186-1
	RJ-45 Unshielded CPC, Receptacle Kit	A98819-ND	20.32	18.83	14.57	1546877-1

† Mates with Figure 9 ‡ Mates with Figure 10

IP67 Sealed Industrial Ethernet Circular RJ45 Connector System

Electrical Specifications: • Meets EIA/TIA-568-B.2 Cat. 5e Specification • IR: 500MΩ minimum @ 100VDC • DWV: 1000VDC/60 seconds Contact to Contact • DWV: 1500VDC/60 seconds Contact to Metal Shell • Contact Resistance: 20mΩ maximum • Current Rating: 1.2A maximum • Working Voltage: 100V • Operating Temperature Range: -40°C ~ 85°C

Dimensions in mm

Fig. 1

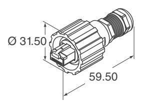

Fig. 2 ***NEW!***

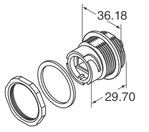

Fig. 3

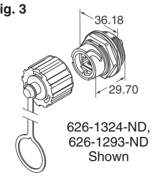

626-1324-ND,
626-1293-ND
Shown

Fig. 4 ***NEW!***

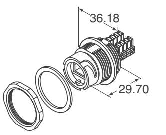

Fig. 5

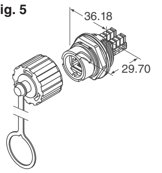

Fig. 6 ***NEW!***

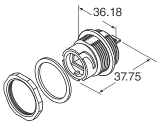

Fig. 7

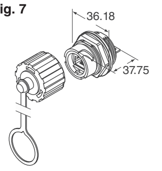

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Conec Part No.
1	Plastic Bayonet-Style Plug Housing with Shielded RJ45 Plug and Load Bar	626-1294-ND	7.08	5.24	4.25	3.97	3.83	17-10001
	Metalized Plastic Bayonet-Style Plug Housing with Shielded RJ45 Plug and Load Bar	626-1323-ND	11.63	8.61	6.98	6.51	6.28	17-10013
	Zinc Die-Cast Bayonet-Style Plug Housing with Shielded RJ45 Plug and Load Bar	626-1414-ND ***NEW!***	17.05	13.18	11.05	10.27	9.89	17-101794
2	Shielded Plastic Receptacle Housing with RJ45 Coupler	626-1387-ND ***NEW!***	18.20	14.16	11.74	10.93	10.52	17-10009
	Unshielded Plastic Receptacle Housing with RJ45 Coupler	626-1388-ND ***NEW!***	11.34	8.82	7.31	6.81	6.56	17-10019
	Shielded Zinc Die-Cast Receptacle Housing with RJ45 Coupler	626-1415-ND ***NEW!***	22.62	18.44	15.84	14.71	14.14	17-101754
	Unshielded Zinc Die-Cast Receptacle Housing with RJ45 Coupler	626-1416-ND ***NEW!***	21.46	17.49	15.03	13.95	13.42	17-101764
3	Shielded Metalized Plastic Receptacle Housing with RJ45 Coupler and Protection Cap	626-1324-ND	20.81	16.19	13.42	12.49	12.03	17-10011
	Shielded Plastic Receptacle Housing with RJ45 Coupler and Protection Cap	626-1293-ND	18.50	14.39	11.92	11.10	10.69	17-10000
	Shielded Zinc Die-Cast Receptacle Housing with RJ45 Coupler and Protection Cap	626-1417-ND ***NEW!***	33.05	27.12	23.73	21.62	21.19	17-101814
	Unshielded Zinc Die-Cast Receptacle Housing with RJ45 Coupler and Protection Cap	626-1418-ND ***NEW!***	31.92	26.20	22.92	20.88	20.47	17-101824
4	Plastic Receptacle Housing with IDC Jack	626-1389-ND ***NEW!***	20.52	15.96	13.23	12.32	11.86	17-10015
	Plastic Receptacle Housing (Potted) with IDC Jack	626-1390-ND ***NEW!***	22.21	17.28	14.32	13.33	12.84	17-10033
5	Plastic Receptacle Housing (Potted) with IDC Jack and Protection Cap	626-1325-ND	19.19	14.93	12.37	11.52	11.09	17-10037
	Metalized Plastic Receptacle Housing (Potted) with IDC Jack and Protection Cap	626-1326-ND	22.25	17.31	14.35	13.36	12.86	17-10038
6	Plastic Receptacle Housing with PCB Jack	626-1391-ND ***NEW!***	20.70	16.10	13.34	12.42	11.96	17-10017
	Plastic Receptacle Housing (Potted) with PCB Jack	626-1392-ND ***NEW!***	22.39	15.92	14.43	13.44	12.94	17-10035
7	Plastic Receptacle Housing (Potted) with PCB Jack and Protection Cap	626-1327-ND	19.33	15.04	12.46	11.60	11.17	17-10039
	Metalized Plastic Receptacle Housing (Potted) with PCB Jack and Protection Cap	626-1328-ND	22.39	17.42	14.43	13.44	12.94	17-10040
8	Shielded Metal Receptacle Housing with RJ45 Coupler	626-1403-ND ***NEW!***	26.98	21.59	18.89	17.54	16.87	17-100934
	Unshielded Metal Receptacle Housing with RJ45 Coupler	626-1404-ND ***NEW!***	20.96	16.77	14.68	13.63	13.10	17-101494
9	Shielded Metal Receptacle Housing with RJ45 Coupler and Protection Cap	626-1405-ND ***NEW!***	33.38	26.71	23.37	21.70	20.87	17-101604
	Unshielded Metal Receptacle Housing with RJ45 Coupler and Protection Cap	626-1406-ND ***NEW!***	31.86	25.49	22.31	20.71	19.92	17-101614
10	Plastic Strain Relief Plug Housing with Shielded RJ45 Plug and Load Bar	626-1336-ND§	9.50	7.03	5.70	5.32	5.13	17-100464
	Metalized Plastic Strain Relief Plug Housing w/Shielded RJ45 Plug and Load Bar	626-1337-ND▲	11.63	8.61	6.98	6.51	6.28	17-100474
11	2M Unshielded Cable Assembly (Plastic) Industrial Plug - Standard Plug	626-1329-ND	10.28	7.61	6.17	5.76	5.55	17-10006
	2M Unshielded Cable Assembly (Plastic) Outdoor Industrial Plug - Standard Plug	626-1409-ND ***NEW!***	14.49	11.27	9.34	8.70	8.38	17-101234
	2M Unshielded Cable Assembly (Plastic) IP20 Industrial Plug - Standard Plug	626-1402-ND ***NEW!***	12.22	9.51	7.88	7.34	7.06	17-100574
	2M Shielded Cable Assembly (Metallized Plastic) Industrial Plug - Standard Plug	626-1332-ND	16.81	13.08	10.84	10.09	9.72	17-10028
	2M Shielded Cable Assembly (Metallized Plastic) Outdoor Industrial Plug - Standard Plug	626-1399-ND ***NEW!***	22.37	17.40	14.42	13.42	12.93	17-101264
	2M Shielded Cable Assembly (Die Cast) Industrial Plug - Standard Plug	626-1400-ND ***NEW!***	20.52	16.42	14.37	13.34	12.83	17-100544
	2M Shielded Cable Assembly (Die Cast) Outdoor Industrial Plug - Standard Plug	626-1401-ND ***NEW!***	22.20	17.76	15.54	14.43	13.88	17-101294
12	2M Unshielded Cable Assembly (Plastic) Industrial Plug - Industrial Plug	626-1393-ND ***NEW!***	14.00	10.89	9.02	8.40	8.09	17-10003
	2M Unshielded Cable Assembly (Plastic) Outdoor Industrial Plug - Industrial Plug	626-1394-ND ***NEW!***	18.92	14.72	12.20	11.36	10.94	17-101144
	2M Shielded Cable Assembly (Metallized Plastic) Industrial Plug - Industrial Plug	626-1395-ND ***NEW!***	29.02	23.22	20.32	18.87	18.14	17-10025
	2M Shielded Cable Assembly (Metallized Plastic) Outdoor Industrial Plug - Industrial Plug	626-1396-ND ***NEW!***	29.74	23.80	20.82	19.34	18.59	17-101174
	2M Shielded Cable Assembly (Die Cast) Industrial Plug - Industrial Plug	626-1397-ND ***NEW!***	31.58	25.27	22.11	20.53	19.74	17-100514
	2M Shielded Cable Assembly (Die Cast) Outdoor Industrial Plug - Industrial Plug	626-1398-ND ***NEW!***	31.94	25.56	22.36	20.77	19.97	17-101204
13	2M Unshielded Cable Assembly (Full Metal) Outdoor Industrial Plug - Industrial Plug	626-1407-ND ***NEW!***	32.10	25.68	22.47	20.87	20.07	17-101084
	2M Shielded Cable Assembly (Full Metal) Outdoor Industrial Plug - Industrial Plug	626-1408-ND ***NEW!***	35.48	28.39	24.84	23.07	22.18	17-101114
—	Tool Termination	626-1295-ND	38.94	—	—	—	—	360X30029X
	Punch Down Tool	626-1335-ND	6.27	—	—	—	—	360X30049X

§ Can be used on back of 17-10000 ▲ Can be used on back of 17-10011

Fig. 8 ***NEW!***

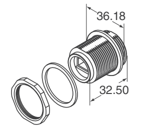

Fig. 9 ***NEW!***

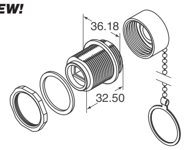

Fig. 10

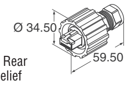

Used as Rear
Strain Relief

Fig. 11

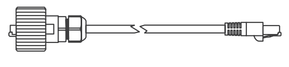

Fig. 12 ***NEW!***

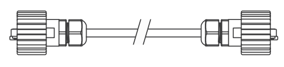

Fig. 13 ***NEW!***

NEW! USB 2.0-IP67 Water Resistant Connector System

IP67 rated industrial USB 2.0 connector for harsh environments. The housing can be mounted on the front or rear side of enclosure panels with thickness up to 3.2mm. The USB connectors are designed to meet USB 2.0 specification. This interface meets IP67 rating requirements when a mating connector is inserted or when covered with a secured protective cap.

Fig. 1

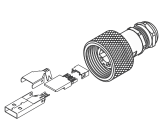

Fig. 2

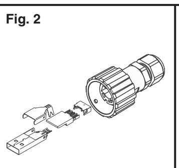

Fig. 3

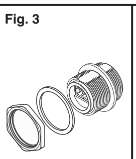

Fig. 4

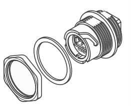

Fig. 5

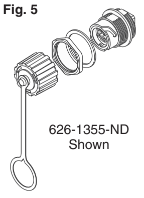

626-1355-ND
Shown

Fig. 6

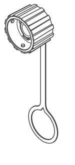

Fig. 7

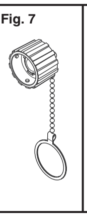

Fig. 8

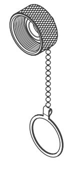

Fig. 9

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	250	1,000	Conec Part No.
1	Connector Set, Brass Nickel Plated, M28 Screw Termination	626-1359-ND	15.14	11.78	9.76	9.43	8.42	17-200331
2	Connector Set, Black Plastic, Bayonet Locking	626-1353-ND	7.44	4.96	3.97	3.60	3.35	17-200121
	Connector Set, Black Plastic, M28 Thread	626-1354-ND	6.70	4.96	4.02	3.89	3.49	17-200151
	Connector Set, Zinc Die-Cast, Bayonet Locking	626-1410-ND	13.29	10.45	8.76	8.46	7.86	17-200591
3	Installation Housing, Brass Nickel Plated, M28 Thread, without Protection Cap	626-1358-ND	18.25	14.20	11.76	11.36	10.14	17-200321
4	Installation Housing, Black Plastic, Bayonet Locking, without Protection Cap	626-1352-ND	8.25	6.11	4.95	4.79	4.29	17-200001
	Installation Housing, Zinc Die-Cast, Bayonet Locking, without Protection Cap	626-1411-ND	20.37	16.01	13.83	13.34	12.37	17-200601
5	Installation Housing, Black Plastic, Bayonet Locking, with Protection Cap	626-1355-ND	11.60	8.59	6.96	6.50	6.04	17-200161
	Installation Housing, Zinc Die-Cast, Bayonet Locking, with Protection Cap	626-1412-ND	30.21	24.79	21.69	20.53	19.37	17-200611
6	Protection Cap, Black Plastic, Bayonet Locking	626-1360-ND	5.64	3.76	3.01	2.82	2.54	17-10002
7	Protection Cap, Black Plastic, Bayonet Locking with Metal Ball Chain	626-1351-ND	6.85	5.07	4.11	3.98	3.57	17-101710
	Protection Cap, Zinc Die-Cast, Bayonet Locking with Metal Ball Chain	626-1413-ND	13.23	10.18	8.53	8.24	7.65	17-101800
8	Protection Cap, Metal/Brass Nickel Plated, M28 Thread, with Metal Ball Chain	626-1350-ND	12.45	9.22	7.47	6.98	6.48	17-100950
9	Patch Cord, IP67 Type A Plug (Black Plastic) to IP20 Type B Plug, 2M	626-1356-ND	12.44	9.68	8.02	7.75	7.19	17-200181
	Patch Cord, IP67 Type A Plug (Black Plastic) to IP20 Type A Plug, 2M	626-1357-ND	12.44	9.68	8.02	7.75	6.92	17-200231

Waterproof Connectors

RoHS COMPLIANT

Standard and High-Density D-Sub, RJ45 and USB Type-A, Type-B, Circular and Power Connectors that meet the IP66 or IP67 Standard when mated. Durable/Industrial Grade.

Standard and High Density D-Subs: **Specifications:** • Connector: Black Glass-filled Nylon • Contacts: Copper Alloy, Gold Plated • Housing: Black ABS Plastic • Current rating: 5A Standard, 2A High density • Material: Brass/Gold plated pins, PBT Connector body **Applications:** • Public traffic light and automatic parking systems • Industrial automatic cleaning, sealing and packing • Security systems • Industrial computer systems • Robotics • Military applications

RJ45 Type: **Specifications:** • Connector: Black ABS Plastic • Contacts: Gold plated • Cable: Cat5e, 24AWG, 4Pair, UTP **Applications:** Commonly used in Ethernet, it is designed to be durable and robust, and is well suited for Automatic Monitoring Systems (CCTV), industrial communication systems, military communications and control systems.

USB Type: **Specifications:** Connectors: Black ABS plastic • Contacts: Gold plated • Cable: USB2.0, 28AWG, OD 5.0mm (A and B Types) **Applications:** • PC and Peripheral interfaces • Robotics • Industrial computer systems

Circular: **Specifications:** Connector: Black Nylon • Contacts: Gold plated • Current Rating: 5A (3 and 5pos.); 12A (4 and 7pos.)

Power Circular: **Specifications:** • Connectors: Black Glass-filled Nylon • Contacts: Gold plated, solder cup **Applications:** Durable construction of ASSMANN power connectors make them suitable for high power amperage applications such as generators, communication systems and military applications.

Adapter Box: **Specifications:** • Housing: Black ABS Plastic • Contacts: Gold housings

Fig. 1

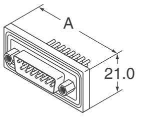

(Vertical PCB Shown)

Fig. 2

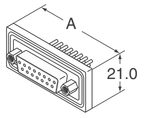

(Vertical PCB Shown)

Fig. 3

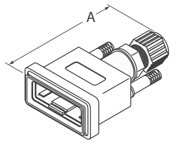

(Shown without connector)

Fig. 4

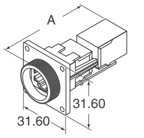

(AE10165-ND Shown)

Fig. 5

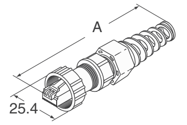

(AE10168-ND Shown)

Fig. 6

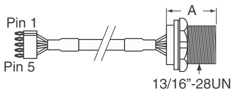

(USB Type-B Shown)

Fig. 7

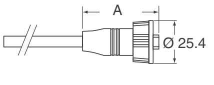

(USB Type-B Shown)

Fig. 8

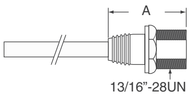

(USB Type-B Shown)

Fig. 9

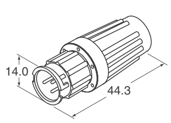

Fig. 10

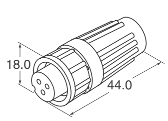

Fig. 11

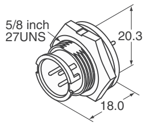

Fig. 12

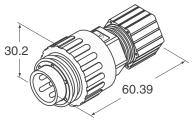

Fig. 13

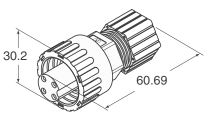

Fig. 14

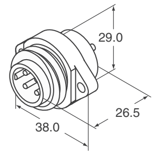

Fig. 15

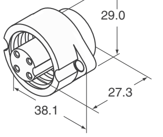

(AE10279-ND Shown)

Fig. 16 ***NEW!***

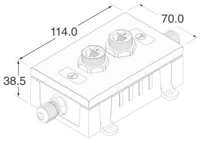

(AE10403-ND Shown)

Fig. 17 ***NEW!***

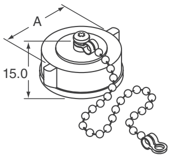

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
	D-Sub Connectors, Male — Standard Density						
1	9 Position, PCB, Vertical	39.4	AE10098-ND	11.40	10.41	9.91	A-DS09PP-WP-R
	9 Position, PCB, Right Angle	39.4	AE10100-ND	13.78	12.75	12.06	A-DS09AA-WP-R
	9 Position, Solder Cup	39.4	AE10096-ND	11.40	10.41	9.91	A-DS09LL-WP-R
	15 Position, Solder Cup	47.8	AE10102-ND	12.04	11.15	10.54	A-DS15LL-WP-R
	15 Position, PCB, Vertical	47.8	AE10104-ND✔	12.04	11.15	10.54	A-DS15PP-WP-R
	15 Position, PCB, Right Angle	47.8	AE10106-ND✔	13.91	13.09	12.72	A-DS15AA-WP-R
	25 Position, Solder Cup	64.5	AE10108-ND	14.43	13.35	12.63	A-DS25LL-WP-R
	25 Position, PCB, Vertical	64.5	AE10110-ND✔	14.43	13.35	12.63	A-DS25PP-WP-R
	25 Position, PCB, Right Angle	64.5	AE10112-ND✔	15.83	15.30	14.78	A-DS25AA-WP-R
3	9 Pos., Solder Cup, with Hood	66.7	AE10142-ND	11.40	10.41	9.91	A-DS09-HOOD-WP-R
	15 Pos., Solder Cup, with Hood	82.5	AE10144-ND	12.92	11.96	11.31	A-DS15-HOOD-WP-R
	25 Pos., Solder Cup, with Hood	92.0	AE10146-ND	14.27	13.43	13.06	A-DS25-HOOD-WP-R
	D-Sub Connectors, Female — Standard Density						
2	9 Position, PCB, Vertical	39.4	AE10097-ND	11.40	10.41	9.91	A-DF09PP-WP-R
	9 Position, PCB, Right Angle	39.4	AE10099-ND	13.78	12.75	12.06	A-DF09AA-WP-R
	9 Position, Solder Cup	39.4	AE10095-ND	11.40	10.41	9.91	A-DF09LL-WP-R
	15 Position, Solder Cup	47.8	AE10101-ND	12.04	11.15	10.54	A-DF15LL-WP-R
	15 Position, PCB, Vertical	47.8	AE10103-ND✔	12.04	11.15	10.54	A-DF15PP-WP-R
	15 Position, PCB, Right Angle	47.8	AE10105-ND✔	13.91	13.09	12.72	A-DF15AA-WP-R
	25 Position, Solder Cup	64.5	AE10107-ND	14.43	13.35	12.63	A-DF25LL-WP-R
	25 Position, PCB, Vertical	64.5	AE10109-ND✔	14.43	13.35	12.63	A-DF25PP-WP-R
	25 Position, PCB, Right Angle	64.5	AE10111-ND✔	15.83	15.30	14.78	A-DF25AA-WP-R
3	9 Pos., Solder Cup, with Hood	66.7	AE10143-ND	11.40	10.41	9.91	A-DF09-HOOD-WP-R
	15 Pos., Solder Cup, with Hood	82.5	AE10145-ND	12.92	11.96	11.31	A-DF15-HOOD-WP-R
	25 Pos., Solder Cup, with Hood	92.0	AE10147-ND	14.27	13.43	13.06	A-DF25-HOOD-WP-R
	D-Sub Connectors, Male — High Density						
1	26 Position, PCB, Right Angle	47.8	AE10128-ND	16.15	15.61	15.07	A-HDS26AA-WP-R
	44 Position, PCB, Right Angle	64.5	AE10139-ND	14.35	13.51	13.13	A-HDS44AA-WP-R
	15 Position, Solder Cup	39.4	AE10117-ND	12.04	11.15	10.54	A-HDS15LL-WP-R
	26 Position, Solder Cup	47.8	AE10129-ND	14.63	13.54	12.81	A-HDS26LL-WP-R
	44 Position, Solder Cup	64.5	AE10140-ND	15.74	14.82	14.40	A-HDS44LL-WP-R
	15 Position, PCB, Right Angle	39.4	AE10116-ND✔	15.38	14.48	14.07	A-HDS15AA-WP-R
	15 Position, PCB, Vertical	39.4	AE10118-ND✔	12.04	11.15	10.54	A-HDS15PP-WP-R
	26 Position, PCB, Vertical	47.8	AE10130-ND✔	14.63	13.54	12.81	A-HDS26PP-WP-R
	44 Position, PCB, Vertical	64.5	AE10141-ND✔	15.74	14.82	14.40	A-HDS44PP-WP-R
3	15 Pos., Solder Cup, with Hood	66.7	AE10119-ND	10.11	9.36	8.85	A-HDS15-HOOD-WP-R
	26 Pos., Solder Cup, with Hood	82.5	AE10121-ND✔	13.35	12.35	11.68	A-HDS26-HOOD-WP-R
	44 Pos., Solder Cup, with Hood	92.0	AE10123-ND	16.83	15.84	15.40	A-HDS44-HOOD-WP-R
	D-Sub Connectors, Female — High Density						
2	26 Position, PCB, Right Angle	47.8	AE10125-ND	16.15	15.61	15.07	A-HDF26AA-WP-R
	44 Position, PCB, Right Angle	64.5	AE10136-ND	14.35	13.51	13.13	A-HDF44AA-WP-R
	15 Position, Solder Cup	39.4	AE10114-ND	12.04	11.15	10.54	A-HDF15LL-WP-R
	26 Position, Solder Cup	47.8	AE10126-ND	14.63	13.54	12.81	A-HDF26LL-WP-R
	44 Position, Solder Cup	64.5	AE10137-ND	13.89	13.43	12.97	A-HDF44LL-WP-R
	15 Position, PCB, Right Angle	39.4	AE10113-ND✔	15.38	14.48	14.07	A-HDF15AA-WP-R
	15 Position, PCB, Vertical	39.4	AE10115-ND✔	12.04	11.15	10.54	A-HDF15PP-WP-R
	26 Position, PCB, Vertical	47.8	AE10127-ND✔	14.63	13.54	12.81	A-HDF26PP-WP-R
	44 Position, PCB, Vertical	64.5	AE10138-ND✔	15.74	14.82	14.40	A-HDF44PP-WP-R
3	15 Pos., Solder Cup, with Hood	66.7	AE10120-ND✔	10.11	9.36	8.85	A-HDF15-HOOD-WP-R
	26 Pos., Solder Cup, with Hood	82.5	AE10122-ND✔	13.35	12.35	11.68	A-HDF26-HOOD-WP-R
	44 Pos., Solder Cup, with Hood	92.0	AE10124-ND✔	16.83	15.84	15.40	A-HDF44-HOOD-WP-R

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
	D-Sub Hoods — Standard Density / High Density						
3	9 Positions / 15 Positions	66.7	AE10154-ND	10.16	9.28	8.84	A-HOOD-09/15-R
	15 Positions / 26 Positions	82.5	AE10155-ND	11.62	10.75	10.17	A-HOOD-15/26-R
	25 Positions / 44 Positions	92.0	AE10156-ND	12.80	12.05	11.71	A-HOOD-25/44-R
	RJ-45 Type Connectors and Assemblies — 15/16-20UNEF Mating Thread						
4	RJ-45 Type, Plug, 1 meter	64.0	AE10163-ND	13.71	12.91	12.55	A-KAB-RJ45-4S-1M-R
	Rcpt., Panel Mount, Coupler, Cat5	53.3	AE10165-ND	16.15	15.61	15.07	A-RJ45GFS-R
	Rcpt., PCB, Right Angle	30.2	AE10166-ND✔	14.27	13.43	13.06	A-RJ45DFR-R
	Rcpt., Wall Plate, Snap In	49.5	AE10167-ND✔	18.57	17.96	17.34	A-RJ45KS-R
	RJ-45 Type Connectors and Assemblies — 13/16-28UN Mating Thread						
—	Rcpt., Bulkhead, IDC, Cat5e	—	AE10170-ND	14.68	13.58	12.85	A-RJ45KU-R
5	Plug, Cat5e	88.5	AE10168-ND✔	13.87	12.83	12.14	A-RJ45M-LR-R
	Plug, Cat5e, IP67	56.5	AE10169-ND✔	12.92	11.96	11.31	A-RJ45M-SR-R
7	RJ-45 Type, Plug, 1 meter	42.7	AE10164-ND	9.41	8.59	8.18	A-KAB-RJ45-4U-1M-R
	USB Type Cable Assemblies						
6	USB Type-A, Female, 50mm	22.0	AE10157-ND	13.91	13.09	12.72	A-USB-APFS-R
	USB Type-B, Female, 50mm	22.0	AE10158-ND	13.91	13.09	12.72	A-USB-BPFS-R
7	USB Type-A, Male, 1 meter	42.6	AE10159-ND	12.03	11.13	10.53	A-KAB-USBA-MS-1M-R
	USB Type-B, Male, 1 meter	44.5	AE10160-ND	12.03	11.13	10.53	A-KAB-USBB-MS-1M-R
8	USB Type-A, Female, 1 meter	45.0	AE10161-ND	12.92	11.96	11.31	A-KAB-USBA-FS-1M-R
	USB Type-B, Female, 1 meter	45.0	AE10162-ND	12.92	11.96	11.31	A-KAB-USBB-FS-1M-R
	Circular Connectors (IP66)						
9	3 Position Receptacle	—	AE10266-ND	12.07	11.37	11.05	A-CR-03BMMA-L180-WP-R
	4 Position Receptacle	—	AE10270-ND	12.75	12.01	11.67	A-CR-04BMMA-L180-WP-R
	5 Position Receptacle	—	AE10274-ND✔	15.64	14.72	14.31	A-CR-05BMMA-L180-WP-R
10	3 Position Plug, Free Hanging	—	AE10265-ND	15.36	14.46	14.05	A-CR-03BFFA-L180-WP-R
	4 Position Plug, Free Hanging	—	AE10269-ND	16.43	15.47	15.04	A-CR-04BFFA-L180-WP-R
	5 Position Plug, Free Hanging	—	AE10273-ND✔	15.42	14.91	14.40	A-CR-05BFFA-L180-WP-R
	Circular Connectors (IP67)						
11	3 Pos. Receptacle, Panel Mount	—	AE10267-ND	10.30	9.41	8.96	A-CR-03PMMP-LC-WP-R
	3 Position Receptacle, PCB	—	AE10268-ND✔	10.49	9.58	9.12	A-CR-03PMMS-LC-WP-R
	4 Pos. Receptacle, Panel Mount	—	AE10271-ND	10.63	9.71	9.24	A-CR-04PMMP-LC-WP-R
	4 Position Receptacle, PCB	—	AE10272-ND✔	10.74	9.81	9.34	A-CR-04PMMS-LC-WP-R
	5 Pos. Receptacle, Panel Mount	—	AE10275-ND✔	11.35	10.36	9.87	A-CR-05PMMP-LC-WP-R
	5 Pos. Rcpt., PCB, Panel Mount	—	AE10276-ND✔	11.36	10.38	9.88	A-CR-05PMMS-LC-WP-R
	Power Circular Connectors (IP67)						
12	4 Position Power Receptacle	—	AE10278-ND	14.80	13.69	12.95	A-P04BMMA-S180-WP-R
	7 Position Power Receptacle	—	AE10282-ND✔	13.43	12.64	12.29	A-P07BMMA-S180-WP-R
13	4 Position Power Plug	—	AE10277-ND	15.92	14.99	14.57	A-P04BFFA-S180-WP-R
	7 Position Power Plug	—	AE10281-ND✔	16.35	15.39	14.96	A-P07BFFA-S180-WP-R
14	4 Pos. Power Plug, Panel Mount	—	AE10280-ND	10.87	10.06	9.51	A-P04PMMS-SC-WP-R
	7 Pos. Power Plug, Panel Mount	—	AE10284-ND✔	12.37	11.44	10.83	A-P07PMMS-SC-WP-R
15	4 Pos. Power Rcpt., Panel Mount	—	AE10279-ND	14.87	13.76	13.01	A-P04PFFS-SC-WP-R
	7 Pos. Power Rcpt., Panel Mount	—	AE10283-ND✔	14.31	13.48	13.10	A-P07PFFS-SC-WP-R
	NEW! RJ45 Waterproof Adaptor Boxes NEW!						
16	RJ45 1 Position, IP69	—	AE10402-ND	24.54	23.73	22.91	A-RF45-BOX-1-R
	RJ45 2 Position, IP70	—	AE10403-ND	37.13	35.90	34.66	A-RJ45-BOX-2-R
	RJ45 4 Position, IP72	—	AE10404-ND	62.39	60.16	57.94	A-RJ45-BOX-4-R
	NEW! Waterproof Caps NEW!						
17	5/8" Course Thread	32.8	AE10405-ND	7.09	6.00	5.73	A-WP-COVER1-R
	13/16" Fine Thread	25.4	AE10406-ND	7.09	6.00	5.73	A-WP-COVER2-R

✔NEW!

Amphenol® Pcd Ethernet and RJ11 Connection System for Harsh Environments

Features: • Multiple coupling types • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • With the patented RJStop® system you can use a standard RJ45/RJ11 cordset • Operating Temperature: -40°C ~ 85°C • Mating cycles: 500 minimum

RoHS COMPLIANT

Fig. 1

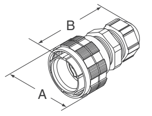

Part Number RJFTV6N Shown

Fig. 2

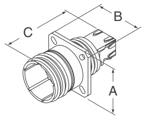

Part Number RJFTV21N Shown

Fig. 3

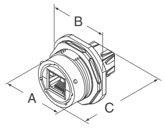

Part Number RJF71B Shown

Fig. 4

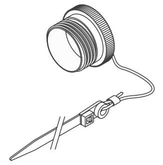

Fig. 5

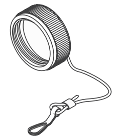

Fig. 9

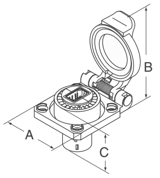

Part Number RJF21BSCC Shown

Fig. 6

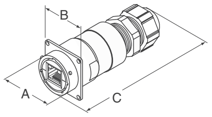

Part Number RJF2PE1B Shown

Fig. 7

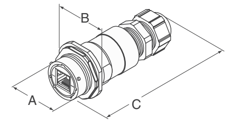

Part Number RJF7PE1B Shown

Fig. 8

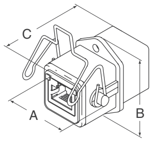

Part Number RJFEZ21 Shown

Fig.	Coupling Type	Dimensions - Inch (mm) A	B	C	Description	Digi-Key Part No.	Price Each 1	25	50	Amphenol Part No.
					RJ11					
					Plugs					
1	Bayonet	1.124 (28.55)	2.089 (53.06)	—	Housing For Cordset with Plastic Gland, Black	APC1120-ND	37.58	34.90	34.23	RJ11F6B
	Bayonet	1.124 (28.55)	2.089 (53.06)	—	Housing For Cordset with Plastic Gland, Nickel	APC1121-ND	39.07	36.29	35.59	RJ11F6N
					Receptacles					
2	Bayonet	.874 (22.2)	1.126 (28.6)	1.563 (39.7)	Square Flange Receptacle to Receptacle, Black	APC1116-ND	39.34	36.53	35.83	RJ11F21B
	Bayonet	.874 (22.2)	1.126 (28.6)	1.563 (39.7)	Square Flange Receptacle to Receptacle, Nickel	APC1117-ND	40.91	37.99	37.26	RJ11F21N
	Bayonet	.874 (22.2)	1.126 (28.6)	1.563 (39.7)	Square Flange Receptacle to Solder, Black	APC1118-ND	37.49	34.82	34.15	RJ11F22B
	Bayonet	.874 (22.2)	1.126 (28.6)	1.563 (39.7)	Square Flange Receptacle to Solder, Nickel	APC1119-ND	38.99	36.21	35.51	RJ11F22N
3	Bayonet	.874 (22.2)	1.374 (34.9)	1.563 (39.7)	Jam Nut Receptacle to Receptacle, Black	APC1122-ND	54.29	50.42	49.45	RJ11F71B
	Bayonet	.874 (22.2)	1.374 (34.9)	1.563 (39.7)	Jam Nut Receptacle to Receptacle, Nickel	APC1123-ND	56.46	52.43	51.43	RJ11F71N
					Accessories					
4	Bayonet	—	—	—	Cap for Plug, Black	APC1128-ND	30.29	28.27	27.26	RJ11FC6B
	Bayonet	—	—	—	Cap for Plug, Nickel	APC1129-ND	31.50	29.40	28.35	RJ11FC6N
5	Bayonet	—	—	—	Cap for Square Flange Receptacle, Black	APC1126-ND	29.85	27.86	26.87	RJ11FC2B
	Bayonet	—	—	—	Cap for Square Flange Receptacle, Nickel	APC1127-ND	31.05	28.98	27.95	RJ11FC2N
	Bayonet	—	—	—	Cap for Jam Nut Receptacle, Black	APC1130-ND	35.45	32.92	32.29	RJ11FC7B
—	Bayonet	—	—	—	Panel Gasket for RJ11 Bayonet, Square Flange Receptacles	APC1115-ND	1.37	.99	.90	JE14
					RJ45 (Ethernet)					
					Plugs					
1	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Plastic Gland, Black	APC1041-ND	26.70	24.92	24.03	RJF6B
	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Plastic Gland, Nickel	APC1044-ND	27.74	25.89	24.97	RJF6N
	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Metal Gland, Black	APC1042-ND	34.43	32.13	30.99	RJF6MB
	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Metal Gland, Olive Drab Cadmium	APC1291-ND	35.16	32.82	31.65	RJF6MG
	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Metal Gland, Nickel	APC1043-ND	34.50	32.20	31.05	RJF6MN
	Reverse Bayonet	1.26 (32)	2.438 (61.94)	—	Housing for Cordset with Plastic Gland, Black	APC1072-ND	14.72	13.47	12.56	RJFRB6
	Thread	1.5 (38)	2.2 (56)	—	Housing for Cordset with Metal Gland, Nickel	APC1083-ND	40.08	37.22	36.51	RJFTV6MN
	Thread	1.5 (38)	2.2 (56)	—	Housing for Cordset with Plastic Gland, Nickel	APC1084-ND	35.06	32.56	31.93	RJFTV6N
	Push Pull	1.279 (32.5)	2.519 (64)	—	Housing for Cordset with Plastic Gland, Black	APC1009-ND	14.32	12.53	11.89	RJF5446
	Quick Lever	1.05 (26.7)	2.659 (67.5)	—	Housing for Cordset with Plastic Gland, Black (Square)	APC1069-ND	10.79	9.38	8.45	RJFEZ6
					Receptacles					
2	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to Receptacle, Black	APC1025-ND	27.26	25.44	24.53	RJF21B
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to Receptacle, Nickel	APC1027-ND	31.47	29.38	28.33	RJF21N
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to Solder, Black	APC1029-ND	22.10	20.63	19.89	RJF22B00
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to Solder, Nickel	APC1032-ND	25.94	24.21	23.35	RJF22N00
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1030-ND	37.37	34.70	34.03	RJF22B03100BTX
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1031-ND	38.47	35.73	35.04	RJF22B10100BTX
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to 0.5 Meter Cord for 10/100 Base, TX Nickel	APC1034-ND	37.09	34.44	33.78	RJF22N05100BTX
	Push Pull	.878 (22.3)	1.220 (31)	1.653 (42)	Square Flange Receptacle to Receptacle, Black	APC1004-ND	16.37	14.98	13.97	RJF54421
	Push Pull	.878 (22.3)	1.220 (31)	1.653 (42)	Square Flange Receptacle to Receptacle, Metallized, Black	APC1008-ND	16.41	15.32	14.77	RJF5442M1
	Push Pull	.878 (22.3)	1.220 (31)	1.653 (42)	Square Flange Receptacle to Solder, Black	APC1005-ND	15.20	14.19	13.68	RJF5442200
	Push Pull	.878 (22.3)	1.220 (31)	13.40 (342)	Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1006-ND	29.45	27.49	26.51	RJF5442203100BTX
	Thread	1.242 (31.55)	1.438 (36.53)	1.697 (43.1)	Square Flange Receptacle to Receptacle, Nickel	APC1076-ND	36.69	34.25	33.03	RJFTV21N
	Thread	1.242 (31.55)	1.438 (36.53)	1.697 (43.1)	Square Flange Receptacle to Solder, Nickel	APC1077-ND	29.91	27.92	26.92	RJFTV22N00
3	Bayonet	1.125 (28.58)	1.626 (41.3)	1.539 (39.1)	Jam Nut Receptacle to Receptacle, Black	APC1045-ND	38.16	35.44	34.76	RJF71B
	Bayonet	1.125 (28.58)	1.626 (41.3)	1.539 (39.1)	Jam Nut Receptacle to Receptacle, Nickel	APC1046-ND	42.10	39.10	38.34	RJF71N
	Bayonet	1.125 (28.58)	1.626 (41.3)	1.539 (39.1)	Jam Nut Receptacle to Solder, Black	APC1048-ND	36.96	34.50	33.27	RJF72B00
	Bayonet	1.125 (28.58)	1.626 (41.3)	1.539 (39.1)	Jam Nut Receptacle to Solder, Nickel	APC1051-ND	37.67	34.99	34.32	RJF72N00
	Bayonet	1.125 (28.58)	1.626 (41.3)	13.34 (339)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1049-ND	45.33	42.10	41.29	RJF72B03100BTX
	Bayonet	1.125 (28.58)	1.626 (41.3)	13.34 (339)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1052-ND	49.15	45.65	44.77	RJF72N03100BTX
	Bayonet	1.125 (28.58)	1.626 (41.3)	40.90 (1,039)	Jam Nut Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1050-ND	46.30	43.00	42.17	RJF72B10100BTX
	Reverse Bayonet	1.079 (27.4)	1.339 (34)	1.729 (43.9)	Jam Nut Receptacle to Receptacle, Black (Front Mount)	APC1073-ND	18.53	17.29	16.68	RJFRB71
	Reverse Bayonet	1.079 (27.4)	1.339 (34)	1.691 (43)	Jam Nut Receptacle to Receptacle, Right Angle, Black (Front Mount)	APC1074-ND	20.66	19.28	18.59	RJFRB71RA
	Thread	1.242 (31.55)	1.812 (46)	1.696 (43.09)	Jam Nut Receptacle to Receptacle, Nickel	APC1085-ND	42.38	39.36	38.60	RJFTV71N
	Thread	1.242 (31.55)	1.812 (46)	1.696 (43.09)	Jam Nut Receptacle to Solder, Nickel	APC1086-ND	35.66	33.12	32.48	RJFTV72N00
	Thread	1.242 (31.55)	1.812 (46)	13.50 (343)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1087-ND	53.19	49.39	48.44	RJFTV72N03100BTX
6	Bayonet	1.125 (28.58)	1.311 (33.3)	3.23 (82)	Inline Square Flange Receptacle to Receptacle with Plastic Gland, Black	APC1035-ND	40.17	37.30	36.58	RJF2PE1B
	Bayonet	1.125 (28.58)	1.311 (33.3)	3.23 (82)	Inline Square Flange Receptacle to Receptacle with Plastic Gland, Nickel	APC1036-ND	47.21	43.84	43.00	RJF2PE1N
	Bayonet	1.125 (28.58)	1.311 (33.3)	3.23 (82)	Inline Square Flange Receptacle to Receptacle with Metal Gland, Black	APC1037-ND	50.40	46.80	45.90	RJF2PEM1B
	Bayonet	1.125 (28.58)	1.311 (33.3)	3.23 (82)	Inline Square Flange Receptacle to Receptacle with Metal Gland, Nickel	APC1039-ND	47.67	44.27	43.42	RJF2PEM1N
	Thread	1.242 (31.55)	1.438 (36.53)	3.622 (92)	Inline Square Flange Receptacle to Receptacle with Plastic Gland, Nickel	APC1080-ND	50.40	46.80	45.90	RJFTV2PE1N
	Thread	1.242 (31.55)	1.438 (36.53)	3.622 (92)	Inline Square Flange Rec. to Rec. with Metal Gland, Olive Drab Cadmium	APC1293-ND	56.27	52.25	51.25	RJFTV2PEM1G
	Thread	1.242 (31.55)	1.438 (36.53)	3.622 (92)	Inline Square Flange Receptacle to Receptacle with Metal Gland, Nickel	APC1081-ND	55.57	51.60	50.61	RJFTV2PEM1N
7	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Black	APC1053-ND	51.56	47.88	46.96	RJF7PE1B
	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Nickel	APC1054-ND	55.34	51.39	50.41	RJF7PE1N

(Continued)

Amphenol® Pcd Ethernet and RJ11 Connection System for Harsh Environments *(Cont.)*

Fig.	Coupling Type	Dimensions - Inch (mm) A	B	C	Description	Digi-Key Part No.	Price Each 1	25	50	Amphenol Part No.
7	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Metal Gland, Black	APC1055-ND	60.17	55.88	54.80	RJF7PEM1B
	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Metal Gland, Nickel	APC1056-ND	60.52	56.20	55.12	RJF7PEM1N
	Thread	1.242 (31.55)	1.812 (46)	3.622 (92)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Nickel	APC1089-ND	55.94	51.95	50.95	RJFTV7PE1N
	Thread	1.242 (31.55)	1.812 (46)	3.622 (92)	Inline Jam Nut Rec. to Rec. with Metal Gland, Olive Drab Cadmium	APC1294-ND	64.75	60.13	58.97	RJFTV7PEM1G
	Thread	1.242 (31.55)	1.812 (46)	3.622 (92)	Inline Jam Nut Receptacle to Receptacle with Metal Gland, Nickel	APC1090-ND	63.24	58.73	57.60	RJFTV7PEM1N
8	Quick Lever	1.339 (34)	1.575 (40)	1.714 (43.55)	Flange Receptacle to Receptacle, Black	APC1064-ND	16.18	14.81	13.81	RJFEZ21
	Quick Lever	1.339 (34)	1.575 (40)	13.53 (343.55)	Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1065-ND	22.56	21.06	20.31	RJFEZ2203100BTX
	Quick Lever	1.339 (34)	1.575 (40)	21.40 (543.55)	Flange Receptacle to 0.5 Meter Cord for 10/100 Base, TX Black	APC1066-ND	22.83	21.31	20.55	RJFEZ2205100BTX
	Quick Lever	1.339 (34)	1.575 (40)	41.08 (1,043.55)	Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1067-ND	23.58	22.01	21.23	RJFEZ2210100BTX
9	Bayonet	1.125 (28.58)	1.311 (33.3)	1.051 (26.7)	Square Flange Receptacle to Receptacle, Black with Self Closing Cap	APC1026-ND	31.80	29.68	28.62	RJF21BSCC
	Bayonet	1.125 (28.58)	1.311 (33.3)	1.051 (26.7)	Square Flange Receptacle to Receptacle, Nickel with Self Closing Cap	APC1028-ND	32.96	30.76	29.66	RJF21NSCC
					Accessories					
4	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Plugs, Black	APC1059-ND	24.32	22.70	21.89	RJFC6B
	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Plugs, Nickel	APC1060-ND	25.44	23.75	22.90	RJFC6N
	Push Pull	—	—	—	IP67 Dust Cap for RJF544 Push Pull Plugs	APC1001-ND	14.48	13.25	12.36	54402BM
	Thread	—	—	—	IP67 Dust Cap for RJFTV Threaded Plugs, Nickel	APC1092-ND	30.65	28.61	27.59	RJFTVC6N
5	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Square Flange Receptacles, Black	APC1057-ND	22.46	20.96	20.21	RJFC2B
	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Square Flange Rec., Olive Drab Cadmium	APC1292-ND	24.50	22.87	22.05	RJFC2G
	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Square Flange Receptacles, Nickel	APC1058-ND	23.69	22.11	21.32	RJFC2N
	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Jam Nut Receptacles, Black	APC1061-ND	28.58	26.67	25.72	RJFC7B
	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Jam Nut Receptacles, Nickel	APC1062-ND	29.79	27.81	26.82	RJFC7N
	Push Pull	—	—	—	IP67 Dust Cap for RJF544 Push Pull Receptacles	APC1000-ND	14.48	13.25	12.36	54402BE
	Push Pull	—	—	—	Panel Gasket for RJF544 Push Pull Square Flange Receptacles	APC1002-ND	1.72	1.33	1.20	54402JE
	Thread	—	—	—	IP67 Dust Cap for RJFTV Threaded Square Flange Receptacles, Nickel	APC1091-ND	29.57	27.60	26.61	RJFTVC2N
	Thread	—	—	—	IP67 Dust Cap for RJFTV Threaded Jam Nut Receptacles, Nickel	APC1093-ND	33.20	30.99	29.88	RJFTVC7N
	Reverse Bayonet	—	—	—	IP67 Dust Cap for RJFRB Reverse Bayonet Jam Nut Receptacles	APC1075-ND	10.93	9.50	8.55	RJFRBC7
—	Bayonet/SCC	—	—	—	Flange Gasket for RJF Bayonet and all with Self Closing Caps	APC1023-ND	1.79	1.38	1.24	JE18
	Bayonet	—	—	—	Flange Gasket for RJFTV Bayonet Square Flange Receptacles	APC1094-ND	3.48	2.70	2.40	JE19
	Quick Lever	—	—	—	IP67 Dust Cap for RJFEZ Quick Lever Receptacles	APC1070-ND	8.51	7.40	6.66	RJFEZBE
	Quick Lever	—	—	—	Panel Gasket for RJFEZ Quick Lever Square Flange Receptacles	APC1071-ND	1.25	.91	.83	RJFEZJE
					Tools					
—	Bayonet	—	—	—	Removal Tool RJFTV Thread, RJF Bayonet Receptacle and Plug Insert	APC1063-ND	28.98	27.05	26.09	RJFODE
	Push Pull	—	—	—	Removal Tool for RJF455 Plug Inserts	APC1003-ND	10.28	8.94	8.05	5440OT02

USB and IEEE 1394 Connection System for Harsh Environments

Features: • Tri-Start Thread coupling • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • Can insert a standard USB 2.0 or most standard IEEE 1394 cordsets into a metallic plug • Operating Temperature: -55°C ~ 85°C • Mating cycles: 500 ~ 1,500

Fig. 1

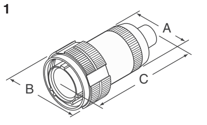

Fig. 2

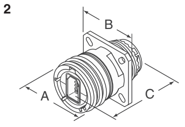

Fig. 3

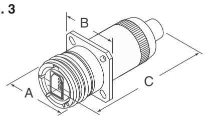

Fig. 4

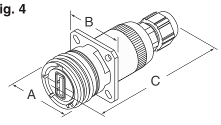

Fig. 5

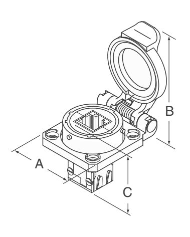

Fig. 6

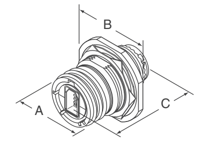

Fig. 7

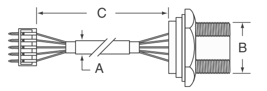

Fig. 8

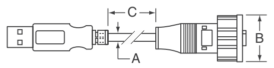

Fig.	Coupling Type	Dimensions - Inches (mm) A	B	C	Description	Digi-Key Part No.	Price Each 1	25	50	Amphenol Part No.
					USB					
1	Plug	.961 (24.4)	1.249 (31.72)	2.792 (70.91)	Plug Housing for USB to A Male cord	APC1107-ND	44.09	40.94	40.15	USBFTV6N
2	Receptacle	1.006 (25.5)	1.219 (30.96)	1.237 (31.41)	Square Flange A Receptacle to Receptacle, Nickel	APC1103-ND	33.78	31.53	30.41	USBFTV21N
	Receptacle	1.006 (25.5)	1.219 (30.96)	1.237 (31.41)	Square Flange A Receptacle to Solder, Nickel	APC1104-ND	33.42	31.20	30.08	USBFTV22N
3	Receptacle	1.006 (25.5)	1.219 (30.96)	3.422 (86.9)	Inline Square Flange A Receptacle to Receptacle with Backshell, Nickel	APC1105-ND†	65.25	60.60	59.43	USBFTV2PE1N
	Receptacle	1.006 (25.5)	1.219 (30.96)	3.422 (86.9)	Inline Jam Nut A Receptacle to Receptacle with Backshell, Nickel	APC1110-ND†	70.24	65.23	63.97	USBFTV7PE1N
5	Receptacle	1.006 (25.5)	1.219 (30.96)	1.052 (26.7)	Square Flange A Receptacle to Receptacle, Black with Self Closing Cap	APC1100-NDΔ	30.59	28.55	27.53	USBF21BSCC
	Receptacle	1.006 (25.5)	1.219 (30.96)	1.052 (26.7)	Square Flange A Receptacle to Receptacle, Nickel with Self Closing Cap	APC1101-NDΔ	31.94	29.81	28.75	USBF21NSCC
6	Receptacle	1.006 (25.5)	1.515 (38.47)	1.237 (31.42)	Jam Nut A Receptacle to Receptacle, Nickel	APC1108-ND	37.34	34.68	34.01	USBFTV71N
	Receptacle	1.006 (25.5)	1.515 (38.47)	1.237 (31.42)	Jam Nut A Receptacle to Solder, Nickel	APC1109-ND	36.99	34.35	33.69	USBFTV72N
7	Cable	0.197 (5)	0.811 (20.6)	1.968 (50.0)	Jam Nut B Receptacle to 5 Pin JWT 2.5mm Connector	APC1097-ND	13.31	12.18	11.36	USBBF7
8	Cable	0.197 (5)	0.811 (20.6)	39.37 (1,000)	Cord Male A to Sealed Male B	APC1095-ND	15.59	14.26	13.30	USBBF6100
	Cable	0.197 (5)	0.811 (20.6)	78.74 (2,000)	Cord Male A to Sealed Male B	APC1096-ND	16.78	15.35	14.32	USBBF6200
					IEEE 1394					
1	Plug	.961 (24.4)	1.249 (31.72)	2.795 (71)	Plug Housing for IEEE 1394 Male Cord	APC1016-ND	48.19	44.75	43.89	FWFTV6N
2	Receptacle	1.006 (25.5)	1.219 (30.95)	1.332 (33.83)	Square Flange Receptacle to Receptacle, Nickel	APC1013-ND	35.77	33.22	32.58	FWFTV21N
	Receptacle	1.006 (25.5)	1.219 (30.95)	1.332 (33.83)	Square Flange Receptacle to Solder, Nickel	APC1014-ND	35.38	32.86	32.22	FWFTV22N
3	Receptacle	1.006 (25.5)	1.219 (30.95)	3.422 (86.9)	Inline Square Flange Receptacle to Receptacle with Backshell, Nickel	APC1015-ND†	76.24	70.80	69.44	FWFTV2PE1N
4	Receptacle	1.006 (25.5)	1.515 (38.5)	3.020 (77)	Inline Jam Nut Receptacle to Receptacle with Backshell, Nickel	APC1019-ND†	76.76	71.28	69.91	FWFTV7PE1N
5	Receptacle	1.417 (36)	1.890 (48)	1.052 (26.7)	Square Flange Receptacle to Receptacle, Black with Self Closing Cap	APC1010-NDΔ	34.49	32.19	31.04	FWF21BSCC
	Receptacle	1.417 (36)	1.890 (48)	1.052 (26.7)	Square Flange Receptacle to Receptacle, Nickel with Self Closing Cap	APC1011-NDΔ	34.95	32.62	31.46	FWF21NSCC
6	Receptacle	1.006 (25.5)	1.515 (38.5)	1.332 (33.8)	Jam Nut Receptacle to Receptacle, Nickel	APC1017-ND	42.35	39.33	38.57	FWFTV71N
	Receptacle	1.006 (25.5)	1.515 (38.5)	1.332 (33.8)	Jam Nut Receptacle to Solder, Nickel	APC1018-ND	41.94	38.95	38.20	FWFTV72N
					Accessories					
IP67 Dust Cap for USBFTV Square Flange Receptacles						APC1112-ND	22.94	21.41	20.65	USBFTVC2N
IP67 Dust cap for USBFTV Plugs						APC1113-ND	23.82	22.24	21.44	USBFTVC6N
IP67 Dust Cap for USBFTV Jam Nut Receptacles						APC1114-ND	29.01	27.08	26.11	USBFTVC7N
Receptacle Cap for USBBF7 with Metal Chains						APC1098-ND	6.90	5.36	4.76	USBBFC7
IP67 Dust Cap for FWFTV Square Flange Receptacle						APC1020-ND	21.30	19.88	19.17	FWFTVC2N
Gasket for Square Flange Receptacles Both FWFTV and USBFTV						APC1024-ND	2.70	2.08	1.87	JE15
					Tools					
Removal Tool for FWFTV Receptacle Inserts						APC1012-ND	27.90	26.04	25.11	FWFODE
Removal Tool for USBFTV Receptacle Inserts						APC1102-ND	23.19	21.65	20.88	USBFODE

† Not IP67 Sealed   Δ Use JE18 Gasket

EMERSON
Network Power

NEW! CAT5, CAT5e and CAT6 Modular Connectors

AIM-Cambridge
Connectivity Solutions

RoHS COMPLIANT

Fig.	Position/ Contacts	Description	Ratings	Shielding	Length (mm)	Digi-Key Part No.	Pricing 1	10	50	Emerson Part No.
1	4-4	Plug	Cat5	Unshielded	12.34	J10082-ND	.30	2.65	10.82	32-5964UL
2	6-4	Plug	Cat5	Unshielded	12.34	J10083-ND	.30	2.65	10.82	32-5954UL
	6-4	Plug	Cat5	Unshielded	12.34	J10084-ND	.33	2.92	11.91	32-5994UL
	6-6	Plug	Cat5	Unshielded	12.34	J10085-ND	.43	3.82	15.58	32-5956UL
	6-6	Plug	Cat5	Unshielded	12.34	J10086-ND	.43	3.82	15.58	32-5996UL
3	8-8	Plug	Cat5	Shielded	21.46	J10087-ND	1.97	17.52	71.50	32-2098UL
4	8-8	Plug	Cat5	Unshielded	21.6	J10088-ND	.63	5.61	22.91	32-5958UL
	8-8	Plug	Cat5	Unshielded	21.6	J10089-ND	.63	5.61	22.91	32-5998UL
	8-8	Plug	Cat5e	Unshielded	21.6	J10090-ND	.63	5.61	22.91	32-5998EUL
	8-8	Plug	Cat5e	Unshielded	21.6	J10091-ND	.76	6.74	27.50	32-2198UL
	8-8	Plug	Cat6	Unshielded	21.6	J10092-ND	1.06	9.43	38.50	32-6198UL
	8-8	Plug	Cat5e	Shielded	—	J10093-ND	3.00	26.73	109.10	32-2298UL
	10-10	Plug	Cat5	Unshielded	21.46	J10094-ND	.96	8.53	34.80	32-5910UL

Fig. 1
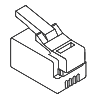

Fig. 2
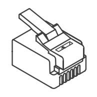

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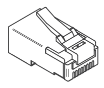

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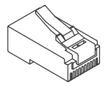

HRS
HIROSE ELECTRIC CO., LTD.

"TM" Modular Connectors

Fig. 1
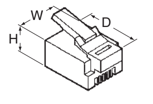

Fig. 2
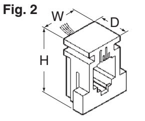

Fig. 3
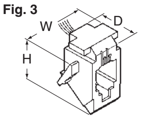

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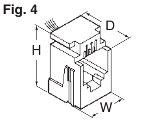

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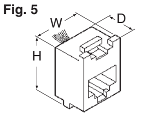

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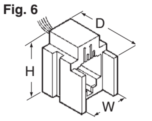

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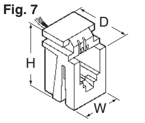

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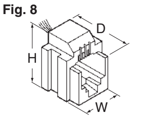

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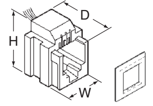

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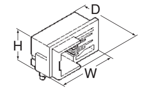

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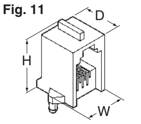

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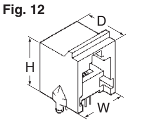

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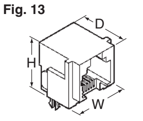

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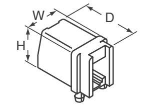

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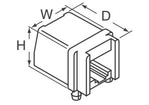

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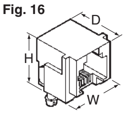

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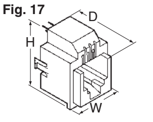

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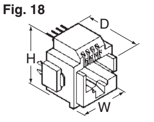

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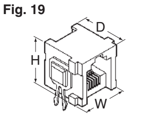

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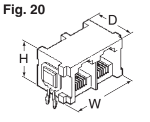

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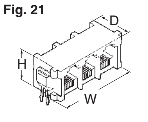

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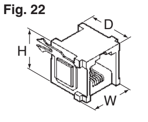

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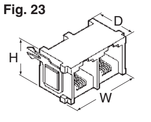

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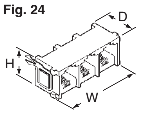

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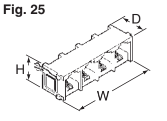

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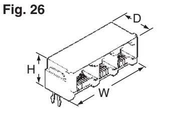

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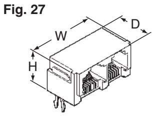

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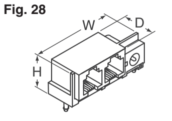

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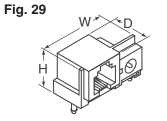

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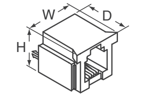

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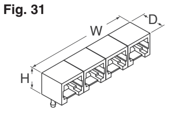

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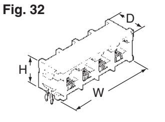

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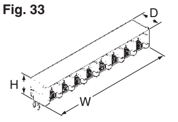

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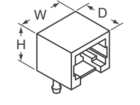

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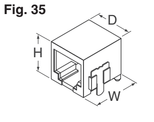

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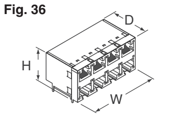

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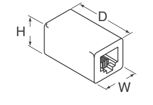

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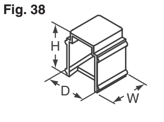

Fig. 39
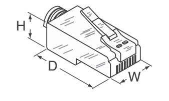

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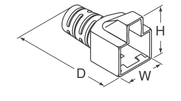

Fig. 41
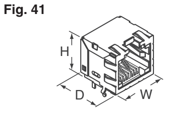

Fig. 42 **NEW!**
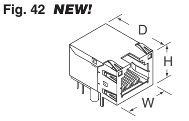

Fig. 43 **NEW!**
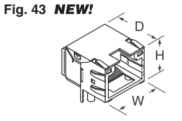

Fig. 44 **NEW!**
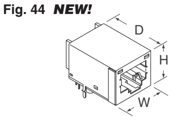

Fig.	Position/ Contacts	Description	Dim. (mm) W	H	D	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Plugs (for IDC Termination with Flat Line Cord) — RoHS Compliant										
1	4-4	Plug	7.7	6.6	13.4	H9091-ND	1.41	1.15	.84	TM3P-44P
	6-4	Plug	9.7	6.6	13.4	H9092-ND	1.48	1.21	.88	TM3P-64P
	6-6	Plug	9.7	6.6	13.4	H9093-ND	1.79	1.46	1.06	TM3P-66P
	8-8	Plug	11.7	6.6	22.5	H9094-ND	2.15	1.79	1.32	TM8P-88P
Receptacles — with 6" (152.4mm) Wire Leads; Color: Gray										
3	4-4	Receptacle	15.3	20.5	10.2	H9018-ND	5.51	4.56	3.42	TM1R-616W44-4S-150M
Receptacles — with 6" (152.4mm) Wire Leads; Color: Gray — RoHS Compliant										
2	4-4	Receptacle	17.5	20.5	10.2	H11388-ND	5.51	4.56	3.42	TM1R-616B44-35S-150M
6	4-4	Receptacle	12.4	17.4	14.3	H11389-ND	5.51	4.56	3.42	TM1R-616M44-35S-150AM
7	4-4	Receptacle	12.4	21.3	12.5	H11390-ND	5.51	4.56	3.42	TM1R-616P44-35S-150M
4	6-4	Receptacle	12.4	21.4	12.5	H11392-ND	5.31	4.40	3.30	TM1RV-623P64-35S-150M
	6-6	Receptacle	12.4	21.4	12.5	H11394-ND	6.06	5.02	3.77	TM1RV-623P66-35S-150M
8	6-4	Receptacle	14.9	18.3	13.7	H11391-ND	5.51	4.56	3.42	TM1RV-623K64-35S-150M
	6-6	Receptacle	14.9	18.3	13.7	H11393-ND	6.71	5.68	4.26	TM1RV-623K66-35S-150M
5	8-8	Receptacle	16.0	18.4	12.5	H11395-ND	10.17	8.84	7.08	TM1RV-647AF88-35S-150M
Receptacles — Panel Mount with 6" (152.4mm) Wire Leads (Bezel Included); Color: Brown — RoHS Compliant										
9	6-2	Receptacle	14.9	18.3	13.7	H11368-ND	4.64	3.84	2.88	TM2RG-L62-5S-150M
	6-4	Receptacle	14.9	18.3	13.7	H11369-ND	7.51	6.36	4.77	TM2RG-L64-5S-150M
	6-6	Receptacle	14.9	18.3	13.7	H11370-ND	8.49	7.38	5.91	TM2RG-L66-5S-150M
Receptacles — P.C. Board Mount; Color: Gray										
14	6-4	Receptacle	15.0	14.5	18.0	H9124-ND	2.47	2.06	1.52	TM5RE1-64
Receptacles — P.C. Board Mount; Color: Gray — RoHS Compliant										
10	4-4	Receptacle	20.0	11.0	10.5	H11253-ND	3.22	2.68	1.98	TM5RF-44(50)

Fig.	Position/ Contacts	Description	Dim. (mm) W	H	D	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
11	4-4	Receptacle	18.0	18.6	14.3	H11366-ND	2.70	2.25	1.66	TM5RC-44(50)
	6-4	Receptacle	18.0	21.1	14.3	H11251-ND	2.80	2.33	1.72	TM5RC-64(50)
	6-6	Receptacle	18.0	21.1	14.3	H11250-ND	2.93	2.43	1.82	TM5RC-66(50)
12	8-8	Receptacle	18.1	21.2	17.5	H11252-ND	4.61	3.82	2.87	TM5RC-88(50)
13	4-4	Receptacle	12.8	14.0	14.0	H11287-ND	3.09	2.57	1.90	TM5RJ3-44(50)
	6-4	Receptacle	14.8	14.0	14.0	H11283-ND	2.57	2.14	1.58	TM5RJ1-64(50)
	6-6	Receptacle	14.8	14.0	14.0	H11284-ND	3.02	2.52	1.86	TM5RJ1-66(50)
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H11281-ND	3.10	2.57	1.93	TM5RJ1-88(50)
16	6-4	Receptacle	14.8	14.0	14.0	H11293-ND	2.57	2.14	1.58	TM5RJ2-64(50)
	6-6	Receptacle	14.8	14.0	14.0	H11294-ND	3.22	2.68	1.98	TM5RJ2-66(50)
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H11280-ND	2.70	2.25	1.66	TM5RJ-88(50)
	8-8	Receptacle (Keyed)	18.6	14.0	14.0	H11295-ND	4.18	3.46	2.60	TM5RJ2-88(50)
14	4-4	Receptacle	13.0	14.5	18.0	H11255-ND	2.60	2.16	1.60	TM5RE1-44(20)
	6-4	Receptacle	15.0	14.5	18.0	H11257-ND	2.80	2.33	1.72	TM5RE1-64(20)
15	6-6	Receptacle	15.0	14.5	18.0	H11258-ND	3.12	2.60	1.92	TM5RE1-66(20)
Receptacles — Top Entry P.C. Board Mount; Color: White — RoHS Compliant										
17	4-4	Low Profile	12.9	18.3	15.0	H11254-ND	2.96	2.46	1.82	TM3RA-44(50)
	6-4	Low Profile	14.9	18.3	15.0	H11259-ND	2.96	2.46	1.82	TM3RA-64(50)
	6-6	Low Profile	14.9	18.3	15.0	H11271-ND	2.99	2.48	1.86	TM3RA-66(50)
18	8-8	Low Profile	16.9	18.3	15.0	H11279-ND	5.83	4.83	3.62	TM3RA-88(50)
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray										
23	2 x 6-2	PC Top Entry	28.2	16.0	15.4	H9113-ND	3.77	3.12	2.34	TM2RE-1204
24	3 x 6-2	PC Top Entry	39.2	16.0	15.4	H9116-ND	4.99	4.13	3.10	TM2RE-1806
29	6-2	With Power Plug	24.0	15.0	13.7	H9132-ND	2.83	2.35	1.74	TM5RT1-62PWJ

(Continued)

“TM” Modular Connectors *(Cont.)*

Fig.	Position/ Contacts	Description	Dim. (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray — RoHS Compliant										
10	4-4	PC Mount	20.0	11.0	10.5	H11282-ND	2.83	2.35	1.74	TM5RF1-44(50)
19	6-4	PC Mount	18.0	15.4	16.0	H11296-ND	3.48	2.88	2.16	TM2REA-0604(50)
	6-6	PC Mount	18.0	15.4	16.0	H11297-ND	4.09	3.39	2.54	TM2REA-0606(50)
20	2 x 6-2	PC Mount	28.2	15.4	16.0	H11278-ND	3.92	3.24	2.43	TM2REA-1204(50)
	2 x 6-4	PC Mount	28.2	15.4	16.0	H11275-ND	5.25	4.35	3.26	TM2REA-1208(50)
	2 x 6-6	PC Mount	28.2	15.4	16.0	H11263-ND	6.15	5.09	3.82	TM2REA-1212(50)
21	3 x 6-2	PC Mount	39.2	15.4	16.0	H11277-ND	5.19	4.30	3.23	TM2REA-1806(50)
	3 x 6-4	PC Mount	39.2	15.4	16.0	H11274-ND	6.99	5.79	4.34	TM2REA-1812(50)
	3 x 6-6	PC Mount	39.2	15.4	16.0	H11264-ND	8.67	7.54	6.04	TM2REA-1818(50)
32	4 x 6-2	PC Mount	50.2	15.4	16.0	H11276-ND	6.41	5.31	3.98	TM2REA-2408(50)
	4 x 6-4	PC Mount	50.2	15.4	16.0	H11265-ND	7.83	6.63	4.97	TM2REA-2416(50)
	4 x 6-6	PC Mount	50.2	15.4	16.0	H11266-ND	9.06	7.88	6.31	TM2REA-2424(50)
22	6-4	PC Top Entry	17.2	16.0	15.4	H11290-ND	3.48	2.88	2.16	TM2RE-0604(50)
	6-6	PC Top Entry	17.2	16.0	15.4	H11291-ND	4.09	3.39	2.54	TM2RE-0606(50)
23	2 x 6-4	PC Top Entry	28.2	16.0	15.4	H11269-ND	5.25	4.35	3.26	TM2RE-1208(50)
	2 x 6-6	PC Top Entry	28.2	16.0	15.4	H11270-ND	6.15	5.09	3.82	TM2RE-1212(50)
24	3 x 6-4	PC Top Entry	39.2	16.0	15.4	H11268-ND	6.99	5.79	4.34	TM2RE-1812(50)
	3 x 6-6	PC Top Entry	39.2	16.0	15.4	H11272-ND	7.88	6.67	5.00	TM2RE-1818(50)
25	4 x 6-4	PC Top Entry	50.2	16.0	15.4	H11260-ND	7.83	6.63	4.97	TM2RE-2416(50)
	4 x 6-6	PC Top Entry	50.2	16.0	15.4	H11267-ND	11.43	9.94	7.96	TM2RE-2424(50)
33	8 x 6-6	Side Entry 8 x 6-6	93.0	14.0	14.0	H11288-ND	12.26	11.35	9.51	TM5RJ1-4848(50)
26	3 x 8-8	3 x 8-8	43.3	14.0	14.7	H11311-ND	6.76	5.72	4.29	TM5RSA-2424(50)
	—	3 x (1) 8-8, (2) 6-6	30.0	14.0	13.5	H11299-ND	8.35	7.07	5.30	TM5RQ-2020(50)
27	—	2 x (1) 8-8, (1) 6-6	28.0	14.0	13.5	H11298-ND	6.97	5.90	4.43	TM5RQ-1414(50)
28	2 x 6-2	With Power Plug	35.0	15.0	13.7	H11312-ND	3.31	2.74	2.06	TM5RT-1204PWJ(50)
29	6-6	With Power Plug	24.0	15.0	13.7	H11314-ND	3.89	3.22	2.42	TM5RT1-66PWJ(50)
30	6-4	Top Entry SMT	14.0	17.0	12.5	H11300-ND	3.02	2.52	1.86	TM15R-64(50)
34	8-8	Receptacle	14.0	11.7	17.0	H11303-ND	3.51	2.91	2.18	TM5RL-88(50)
31	4 x 8-8	Receptacle	56.0	11.7	17.0	H11304-ND	10.35	9.00	7.20	TM5RL-3232(50)
Receptacles — Right Angle, SMT — RoHS Compliant										
35	8-8	Receptacle	15.6	12.3	14.5	H11310-ND	4.61	3.82	2.87	TM18R-TO-88(50)

Fig.	Position/ Contacts	Description	Dim. (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
“TM” Modular Connectors — RoHS Compliant										
31	4 x 8-8	With Light Pipes	59.2	15.3	25.9	H11307-ND	15.81	14.88	13.02	TM21R-5A-3232-LP(50)
37	8-8	Adapter Receptacle to Receptacle	18.6	17.0	37.5	H11315-ND	11.54	10.68	8.95	TM5RL-88-JJ(50)
36	8 x 8-8	With Light Pipes	59.2	28.0	32.5	H11308-ND	21.45	20.74	18.59	TM21R-5B-3232D-LP(50)
Dust Covers for Modular Connectors — RoHS Compliant										
38	6-6	Dust Cover	12.0	13.0	8.5	H9007-ND	.65	.53	.39	TM-6-DC
	8-8	Dust Cover	15.6	13.9	6.5	H9006-ND	.95	.78	.57	TM-8-DC
Plug for CAT6 — RoHS Compliant										
39	8-8	Plug	11.7	8.9	25	H11471-ND	3.63	3.00	2.25	TM23P-88P
Boot for CAT6 Plug — RoHS Compliant										
40	8-8	Black	13.4	17.2	25.3	H11472-ND	1.18	.97	.70	TM23P-8-BT(01)
	8-8	Red	13.4	17.2	25.3	H11473-ND	1.18	.97	.70	TM23P-8-BT(02)
	8-8	Blue	13.4	17.2	25.3	H11474-ND	1.18	.97	.70	TM23P-8-BT(03)
	8-8	Yellow	13.4	17.2	25.3	H11475-ND	1.18	.97	.70	TM23P-8-BT(04)
	8-8	Green	13.4	17.2	25.3	H11476-ND	1.18	.97	.70	TM23P-8-BT(05)
	8-8	Orange	13.4	17.2	25.3	H11477-ND	1.18	.97	.70	TM23P-8-BT(06)
	8-8	Gray	13.4	17.2	25.3	H11478-ND	1.18	.97	.70	TM23P-8-BT(07)
	8-8	Light Blue	13.4	17.2	25.3	H11479-ND	1.18	.97	.70	TM23P-8-BT(08)
Receptacles — Right Angle, SMT — RoHS Compliant										
41	8-8	Black; CAT6	15	14.5	13	H11480-ND	3.86	3.20	2.40	TM23R-5A-88(50)
	8-8	EMI Shield	15	14.5	13	H11488-ND	4.64	3.84	2.88	TM24RSG-5A-88
NEW! Receptacles — Right Angle, P.C. Board Mount, CAT5e — RoHS Compliant NEW!										
42	8-8	With Light Pipe	16	13.75	21.0	H11690-ND	5.83	4.83	3.62	TM21R-5C-88-LP(50)
	8-8	Receptacle	16	13.75	21.0	H11691-ND	5.42	4.49	3.37	TM21R-5C-88(50)
43	8-8	Receptacle	15	11.5	14.5	H11692-ND	3.05	2.52	1.89	TM11R-5M2-88
	8-8	With Light Pipe	15	11.5	14.5	H11693-ND	3.19	2.64	1.98	TM11R-5M2-88-LP
Receptacles — Right Angle, P.C. Board Mount, with PulseTransformers — RoHS Compliant										
44	8-8	Receptacle	16	13.6	21.3	H11694-ND✔	7.07	5.99	4.49	TM11RD-5TANA-A-88
	8-8	With Light Pipe	16	16.6	21.3	H11695-ND✔	7.49	6.34	4.76	TM11RD-5TANA-A-88-LP
—	Hand Crimp Tool for CAT6 Plug					H11487-ND		699.58		HT601-TM23/22P-88P

✔ ***NEW!***

Data-Link Shielded Jack

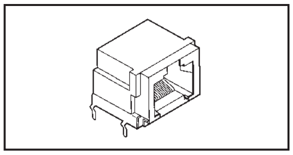

FEATURES: Jack: • In order to protect the circuit inside the equipment, the jack is constructed to allow the shielding to engage first upon mating • The conventional TM series jack with EMI protection provided with a shield and ferrite core • The 8-conductor model conforming to RJ-45 and ISO8877 standards
APPLICATIONS: • LAN equipment • Office equipment • Measurement equipment • HUB • Router • Computer • ISDN terminal **TM11 “EMI”** protection connector is designed to fulfill the requirement of noise and “ESD” protection. The design is in conformance with the F.C.C. regulation as specified in “476 C.F.R., Part 68, subpart F.”

Positions-Contacts	Digi-Key Part No.	Price Each			Hirose Part No.
		1	10	100	
8-8	H11289-ND	5.63	4.66	3.50	TM11R-5C-88(50)

RJ45 Modular Jacks with LEDs

Fig. 1

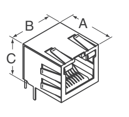

Fig. 2

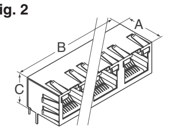

Fig. 3 ***NEW!***

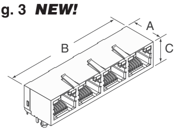

SPECIFICATIONS: • Insulator Housing: Black Plastic PBT/Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plate over Nickel • Contact Resistance: 20mΩ maximum • Insulation Resistance: 500MΩ minimum • Current Rating: 1.5A maximum • Voltage Rating: 120VAC maximum • Shield Housing: Tin plated Copper Alloy • LED Voltage: 2.1V typical @ 20mA • Reverse Voltage @<100mA: 5.0V • DC Forward Current: 30mA

Fig.	Circuits-Contacts	LED Color Left / Right	Dimensions (mm)			Digi-Key Part No.	Price Each			EDAC Part No.
			A	B	C		1	10	100	
30µ” Gold										
1	8-8	—	15.75	16.51	13.46	151-1060-ND	3.38	3.00	2.40	A20-108-660-010
	8-8	Yellow/Green	15.75	16.51	13.46	151-1061-ND	4.25	3.77	3.02	A20-108-661-310
	8-8	Red/Green	15.75	16.51	13.46	151-1062-ND	3.35	2.97	2.38	A20-108-662-310
	8-8	Green/Green	15.75	16.51	13.46	151-1063-ND	3.91	3.47	2.78	A20-108-663-310
	8-8	Red/Green-Red/Green	15.75	16.51	13.46	151-1064-ND	3.97	3.52	2.82	A20-108-665-510
2	2 x 8-8	Yellow/Green	15.75	32.26	13.46	151-1066-ND	5.74	5.09	4.07	A20-216-661-310
	4 x 8-8	Yellow/Green	15.75	63.75	13.46	151-1069-ND	3.54	—	—	A20-432-661-310
Gold Flash										
1	8-8	—	15.75	16.51	13.46	151-1105-ND	2.23	1.98	1.59	A20-108-260-010
	8-8	Yellow/Green	15.75	16.51	13.46	151-1106-ND	2.70	2.40	1.92	A20-108-261-310
	8-8	Red/Green	15.75	16.51	13.46	151-1107-ND	2.64	2.34	1.87	A20-108-262-310
	8-8	Green/Green	15.75	16.51	13.46	151-1108-ND	1.00	—	—	A20-108-263-310
2	4 x 8-8	Yellow/Green	15.75	63.75	13.46	151-1110-ND	3.54	—	—	A20-432-261-310
3	8-8	Green-Yellow, Green	15.75	58.16	13.46	151-1126-ND✔§	3.50	—	—	A20-432-262-903

✔ ***NEW!*** § Designed for tight PCIE Specifications in server applications

RJ45 Modular Jacks

SPECIFICATIONS:

• Operating Temperature: -40°C ~ 80°C • FCC Compliance: Part 68 SubPart F • Insulator Housing: Black Plastic PBT/Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plated over Nickel • Contact Resistance: 30mΩ maximum • Insulation Resistance: 500MΩ minimum • Current Rating: 1.5A maximum • Voltage Rating: 1.25V • Withstanding Voltage: 500VAC (Gold Flash: 1000VAC) • Shield Housing: Tin plated Copper Alloy

Fig. 1 – Vertical

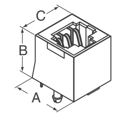

Fig. 2 – Right Angle

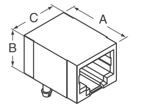

Fig.	Circuits-Contacts	Dimensions (mm)			Digi-Key Part No.	Price Each			EDAC Part No.
		A	B	C		1	10	100	
30µ” Gold									
1	8-8	15.90	16.38	15.36	151-1070-ND	1.61	1.43	1.15	A00-108-620-450
	8-8	16.70	16.20	16.00	151-1071-ND	2.23	1.98	1.59	A00-108-622-450
2	8-8	20.57	13.30	15.24	151-1072-ND	2.88	2.56	2.05	A00-108-660-450
	8-8	21.20	13.60	15.88	151-1073-ND	3.10	2.75	2.20	A00-108-662-450
	8-8	20.57	13.60	30.48	151-1074-ND	4.50	3.99	3.19	A00-216-660-450
	8-8	28.50	25.14	17.28	151-1076-ND	6.91	6.14	4.91	A00-216-672-450
	8-8	21.30§	13.60	59.10§	151-1078-ND	9.98	8.86	7.09	A00-432-662-450
Gold Flash									
1	8-8	15.90	16.38	15.36	151-1099-ND	.71	.64	.51	A00-108-220-450
	8-8	16.70	16.20	16.00	151-1100-ND	1.64	1.46	1.17	A00-108-222-450
2	8-8	20.57	13.30	15.24	151-1118-ND	1.58	1.41	1.13	A00-108-260-450
	8-8	21.20	13.60	15.88	151-1119-ND	1.24	1.10	.88	A00-108-262-450
	8-8	20.57	13.60	30.48	151-1101-ND	1.33	1.19	.95	A00-216-260-450
	8-8	21.27	13.80	31.12	151-1102-ND	2.17	1.93	1.54	A00-216-262-450
	8-8	28.50	25.14	17.28	151-1103-ND	4.59	4.07	3.26	A00-216-272-450
	8-8	20.65	12.83	58.55	151-1104-ND	2.42	2.15	1.72	A00-432-260-450
	8-8	21.30§	13.60	59.10§	151-1120-ND	3.69	3.28	2.62	A00-432-262-450

§ Dimension is ±0.25 mm

HyperJack 1000 - Power over Ethernet (PoE) Modules

The HyperJack 1000 PoE Module enables all power over Ethernet management functions for Power Sourcing Equipment (PSE) acc. IEEE802.3af with Gigabit Ethernet performance. **SPECIFICATIONS: Shield:** • Material: Brass, Plating: Nickel **Housing:** • Material: Black Thermoplastic UL 94V-0 **Terminal:** • Phosphor Bronze, Plating: Postplate or Spotplate 0.00127/0.00005 minimum • Gold over 0.00127/0.00005 minimum • Nickel in contact area, 0.00190/0.000075 minimum 100% • Tin in tail area, both over 0.00127/0.000050 minimum nickel over all

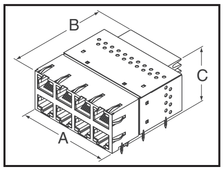

Circuits-Contacts	Description	Dimensions (mm)			Digi-Key Part No.	Price Each			Molex Part No.
		A	B	C		1	10	100	
8-8	PoE Module 2x4 Port	59.39	63.53	25.9	WM5458-ND	153.56	131.90	117.76	85586-1003
	PoE Module 2x6 Port	87.33	63.53	25.9	WM5459-ND	251.61	216.11	192.96	85586-1005
	Ethernet 2x6 Port	87.33	40.15	25.46	WM5460-ND	99.06	85.09	75.97	85780-1005

Fig. 1

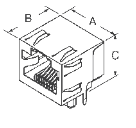

Housing: Black glass-filled high temperature nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: 1.27μm (50μ") min. Gold in contact area and 1.27μm (50μ") Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C (70°C for 48025 series)

Fig. 2

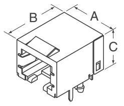

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27μm min. Gold in contact area, Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 3

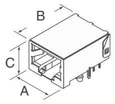

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm (50μ") min. Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 70°C

Fig. 4

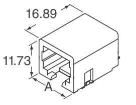

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm (50μ") min. Tin in solder tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 5

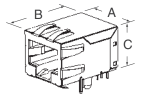

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27μm ~ 1.52μm (50μ" ~ 60μ") Gold in contact area, Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 6

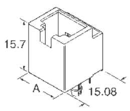

Housing: Black polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27μm ~ 1.52μm (50μ" ~ 60μ") Gold in contact area, 1.90μm (75μ") min. (90/10) Tin/Brass in tail area, both over Nickel overall
Note: *Panel cutout SMT are Black polyester, UL 94V-0*
Temperature: -40°C ~ 80°C

Fig. 7

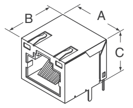

Housing: High temperature thermoplastic *(Polyamide, glass fiber filled for Part No. 48074-9001)* Black, UL 94V-0
Contact: Phosphor Bronze
Plating: 1.27μm (50μ") *(30μ" for Part No. 48074-9001)* min. Gold in contact area and 100μ" min. Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 70°C

Fig. 8

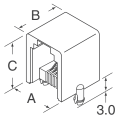

Housing: Black glass-filled polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: 1.27μm (50μ") min. Gold in contact area, 1.0μm min. Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 9

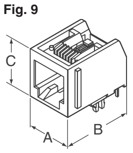

Housing: Black polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27μm ~ 1.52μm (50μ" ~ 60μ") Gold in contact area, 1.90μm (75μ") min. pure Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 10

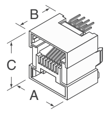

Housing: Black polyamide, glass fiber filled, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27μm ~ 1.52μm (50μ" ~ 60μ") Gold in contact area, 1.90μm (75μ") min. Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 11

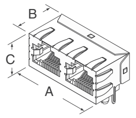

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm min. 2.54μm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 85°C (80°C for 44150 series)

Fig. 12

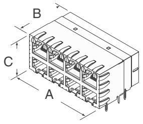

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm min. 2.54μm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 13

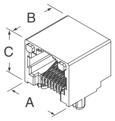

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm min. 2.54μm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 85°C (80°C for 95501 series)

Fig. 14

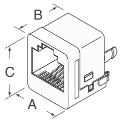

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27μm min. 2.54μm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 85°C (80°C for 42410 series)

Fig. 15

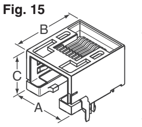

Housing: Black LCP glass-filled, UL 94V-0
Contact: Brass plated
Plating: 1.27μm (50μ") min. Gold in contact area, 1.90μm (75μ") min. tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig.	Circuits-Contacts	Key	Dimensions - mm			Digi-Key Part No.	Price Each			Molex Part No.
			A	B	C		1	10	100	
Right Angle - Low Profile, Shielded with Lightpipes — RoHS Compliant										
1	8-8	no	16.38	15.39	13.54	WM1637-ND	3.40	2.77	2.13	43860-0010-TR80
Right Angle - Low Profile, Inverted Unshielded — RoHS Compliant										
1	6-4	no	15.75	15.39	13.21	WM5430-ND	1.02	.84	.64	43860-0003
	6-6	no	15.75	15.39	13.21	WM5431-ND	1.18	.96	.74	43860-0002
	8-8	no	15.75	15.39	13.21	WM5432-ND	1.38	1.13	.87	43860-0001
Right Angle - Low Profile, Inverted Shielded with All Panel Grounding Tabs										
1	6-4	no	16.38	15.39	13.54	WM5433-ND	2.57	2.09	1.61	43860-0015
	6-6	no	16.38	15.39	13.54	WM5434-ND◆	2.73	2.22	1.71	43860-0014
	8-8	no	16.38	15.39	13.54	WM5435-ND◆	2.93	2.38	1.83	43860-0013
Right Angle - Low Profile, Inverted Shielded with Offset Panel Grounding Tabs — RoHS Compliant										
1	6-4	no	16.38	15.39	13.54	WM5436-ND	2.57	2.09	1.61	43860-0006
	6-6	no	16.38	15.39	13.54	WM5437-ND	2.73	2.22	1.71	43860-0005
	8-8	no	16.38	15.39	13.54	WM5438-ND	2.98	2.42	1.86	43860-0004
Right Angle - Low Profile, Unshielded										
2	4-4	no	11.18	18.03	11.58	WM5439-ND◆	1.36	1.11	.86	43202-4101
	6-2	no	13.21	18.03	11.58	WM5440-ND	1.28	1.05	.81	43202-6107
	6-4	no	13.21	18.03	11.58	WM5473-ND◆	1.39	1.13	.87	43202-6104
	6-4	no	13.21	18.03	11.58	WM5441-ND◆	1.75	1.43	1.10	43202-6105
	6-6	no	13.21	18.03	11.58	WM5442-ND◆	1.49	1.22	.94	43202-6101
	8-8	no	15.24	18.03	11.58	WM5445-ND◆	1.39	1.14	.87	43202-8104
	8-10	no	15.24	18.03	11.58	WM5446-ND◆	1.59	1.30	1.00	43202-8101
Right Angle - Low Profile — RoHS Compliant										
3	8-8	no	14.58	20.20	10.77	WM5463-ND	7.81	6.35	4.89	44661-0001
	8-8	no	15.75	13.21	15.11	WM5467-ND	1.34	1.09	.84	44620-0001
	8-8	no	15.06	20.78	11.23	WM5469-ND	7.81	6.35	4.89	44661-0021
Right Angle - Low Profile SMT, with Flush Fitting Nails — RoHS Compliant										
4	6-6	no	13.21	—	—	WM5567CT-ND†	1.83	1.49	—	44144-0005
	6-6	no	13.21	—	—	WM5567TR-ND‡	137.55/150			44144-0005
Right Angle - Low Profile, Inverted Shielded — RoHS Compliant										
5	8-8	yes	16.38	15.75	13.46	WM5468-ND	2.90	2.36	1.82	44620-0002
Right Angle - Low Profile — RoHS Compliant										
5	8-8	no	16.36	18.64	11.81	WM1635-ND§	3.22	2.62	2.01	43202-8816-TR80
	8-8	no	16.36	18.64	11.81	WM1636-ND▲	3.22	2.62	2.01	43202-8817-TR80
Right Angle - Category 5 — RoHS Compliant										
5	8-8	no	15.80	21.06	13.06	WM5487-ND	6.11	4.97	3.82	44050-0003
	8-8	no	15.80	21.06	13.06	WM5488-ND	6.11	4.97	3.82	44050-0006
Right Angle Shielded with Integrated Magnetics and LED — RoHS Compliant										
5	8-8	no	16.20	25.40	13.30	WM5483-ND	8.63	6.64	5.31	48025-1090
	8-8	no	16.20	25.40	13.30	WM5484-ND	8.63	6.64	5.31	48025-1190
	8-8	no	16.20	25.40	13.30	WM5485-ND	8.50	6.54	5.23	48025-4000
Vertical - Standard Profile — RoHS Compliant										
6	4-4	no	11.18	—	—	WM5578-ND	1.92	1.57	1.21	95503-2441
	6-4	no	13.21	—	—	WM5579-ND	1.40	1.14	.88	95503-2641
	6-6	no	13.21	—	—	WM5580-ND	1.95	1.59	1.22	95503-2661
	8-8	no	15.24	—	—	WM5581-ND	1.17	.96	.74	95503-2881
Vertical - Standard Profile SMT — RoHS Compliant										
6	4-4	no	11.18	—	—	WM5583-ND	1.43	1.17	.90	95503-6451
	6-4	no	13.21	—	—	WM5584-ND	1.49	1.22	.94	95503-6651
	6-6	no	13.21	—	—	WM5585-ND	1.44	1.17	.90	95503-6671
	8-8	no	15.24	—	—	WM5586-ND	1.42	1.15	.89	95503-6891

Fig.	Circuits-Contacts	Key	Dimensions - mm			Digi-Key Part No.	Price Each			Molex Part No.
			A	B	C		1	10	100	
Right Angle - Category 5 with LED — RoHS Compliant										
7	8-8	no	16.50	15.75	13.21	WM5448-ND	2.64	2.03	1.63	48146-0011
Right Angle Shielded with Integrated Magnetics and LED — RoHS Compliant										
7	8-8	no	16.20	25.40	13.30	WM5449-ND	10.56	8.13	6.51	48025-0002
	8-8	no	16.20	20.50	13.45	WM5450CT-ND◊†	7.35	5.59	—	48074-9001
	8-8	no	16.20	20.50	13.45	WM5450TR-ND◊‡	479.10/100			48074-9001
Right Angle, Through Hole — RoHS Compliant										
8	4-4	no	12.20	13.00	14.50	WM5464-ND	1.30	1.06	.81	52018-4446
	6-6	no	12.20	13.00	14.50	WM5465-ND	1.30	1.06	.81	52018-6646
	8-8	no	12.20	13.00	14.50	WM5466-ND	3.60	2.93	2.25	52018-8846
9	4-4	no	11.18	20.57	14.99	WM5489-ND	.99	.81	.62	95009-2441
	6-4	no	13.21	20.57	14.99	WM5490-ND	1.00	.81	.63	95009-2641
	6-6	no	13.21	20.57	14.99	WM5491-ND	1.04	.85	.65	95009-2661
	8-8	no	15.24	20.57	14.99	WM5492-ND	1.30	1.06	.81	95009-2881
Bottom Entry - Low Profile, Through Hole — RoHS Compliant										
10	8-8	no	15.55	12.58	16.75	WM5486-ND	1.91	1.56	1.20	95502-2883
Right Angle - Low Profile — RoHS Compliant										
11	2 x 8-8	no	31.12	21.02	14.63	WM5471-ND	10.19	8.28	6.37	44150-0005
	4 x 8-8	no	59.05	21.02	14.63	WM5482-ND	20.37	16.56	12.74	44150-0006
	2 x 8-8	no	32.36	15.47	13.45	WM5475-ND	8.54	6.94	5.34	44248-0085
	4 x 8-8	no	63.86	15.47	13.45	WM5476-ND	13.48	10.96	8.43	44248-0086
	2 x 8-8	no	32.36	15.47	13.45	WM5477-ND	11.70	9.51	7.32	44248-0029
	4 x 8-8	no	63.86	15.47	13.45	WM5478-ND	17.70	14.38	11.07	44248-0030
Right Angle, Shielded, Lightpipes, Stacked — RoHS Compliant										
12	8-8	no	59.18	33.95	26.73	WM5472-ND	39.39	32.01	24.62	44170-0001
Right Angle - Low Profile, Inverted, Lightpipes — RoHS Compliant										
13	8-8	no	15.75	14.99	13.21	WM5474-ND	1.86	1.51	1.17	43860-0007
Right Angle - Low Profile — RoHS Compliant										
13	4-4	no	11.18	18.10	11.50	WM5568-ND	1.10	.90	.69	95501-2441
	6-4	no	13.21	18.10	11.50	WM5569-ND	1.53	1.24	.96	95501-2641
	6-6	no	13.21	18.10	11.50	WM5570-ND	1.11	.90	.70	95501-2661
	8-8	no	15.24	18.10	11.50	WM5571-ND	1.11	.91	.70	95501-2881
	8-8	yes	15.24	18.10	11.50	WM5572-ND	1.47	1.20	.93	95501-2882
Right Angle - Low Profile SMT — RoHS Compliant										
13	4-4	no	11.18	18.10	11.50	WM5573-ND	1.29	1.06	.81	95501-6449
	6-4	no	13.21	18.10	11.50	WM5574-ND	1.31	1.07	.82	95501-6649
	6-6	no	13.21	18.10	11.50	WM5575-ND	1.42	1.16	.90	95501-6669
	8-8	no	15.24	18.10	11.50	WM5576-ND	1.49	1.22	.94	95501-6889
	8-8	yes	15.24	18.10	11.50	WM5577-ND	1.68	1.37	1.05	95501-6890
Vertical - Low Profile — RoHS Compliant										
14	8-8	no	18.03	16.38	15.88	WM5565-ND	1.55	1.27	.98	42410-8312
	8-8	no	18.03	16.38	15.88	WM5566-ND§	1.55	1.26	.97	42410-8314
	6-4	no	13.46	12.70	15.88	WM5479-ND	1.30	1.06	.81	42878-6362
	6-6	no	13.46	12.70	15.88	WM5480-ND	1.41	1.15	.89	42878-6218
	6-6	no	13.46	16.38	15.88	WM5588-ND	1.46	1.19	.92	42410-6170
	8-8	no	15.49	12.70	15.88	WM5481-ND	1.56	1.27	.98	42878-8410
Right Angle, Shielded - Low Profile — RoHS Compliant										
15	8-8	no	15.24	18.10	11.50	WM6056-ND	2.55	2.08	1.60	95540-2881
	8-8	no	15.24	18.10	11.50	WM6055CT-ND◊†	2.00	1.70	—	95540-6886
	8-8	no	15.24	18.10	11.50	WM6055TR-ND◊‡	173.10/150			95540-6886
Dust Cover — RoHS Compliant										
Dust Cover for 8 Position Modular Jack						WM5447-ND	1.49	1.15	—	85999-3255

† Cut Tape ‡ Tape and Reel § No Top or Side Tabs ▲ Top Tabs ◊ SMT Type ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BULGIN USB Buccaneer® Connectors

Features: • Dust and waterproof to IP68 standard when mated • USB version 2.0 performance • Low and high speed bus connection, 1.5Mbs ~ 480Mbs • Plug and play capability • Visual mating indication • Screw coupling • High noise immunity and EMI protection • Suitable for PC and peripheral configuration **Electrical Specifications:** • Current Rating: 1A • Voltage Rating: 30VAC (RMS) • Contact Resistance: 30mΩ maximum **Material Specifications:** • Shell Material: Nickel plated steel • Insulation moulding: Nylon 6 • Flammability: UL94V-0 • Contact Material: 30μ" gold plated copper alloy • Over mould material: Black PVC • Operating Temperature Range: 0°C ~ 70°C • Mating Cycles: 1,000

Dim. in mm

Fig. 1

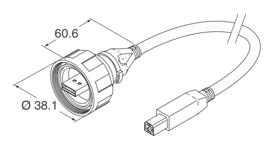

Fig. 2

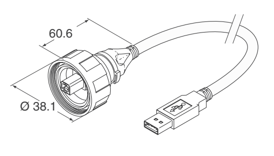

Fig. 3

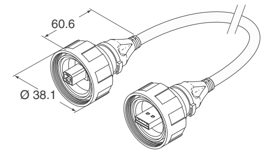

Fig. 4

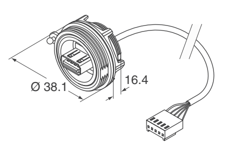

Fig. 5

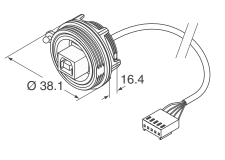

Fig. 6

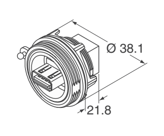

Fig. 7

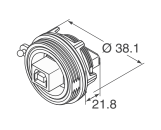

Fig. 8

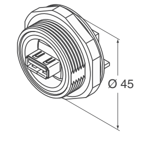

Fig. 9

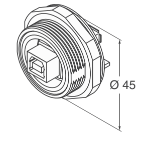

Fig. 10

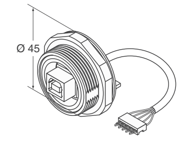

Fig. 11

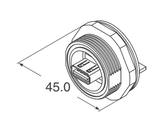

Fig. 12

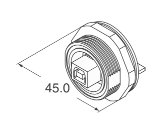

Fig. 13

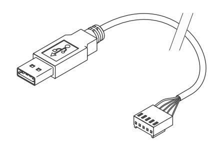

Fig. 14

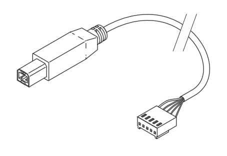

Fig. 15

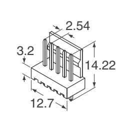

Fig. 16

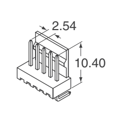

Fig. 17

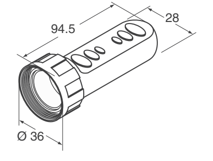

Fig.	Description	Digi-Key Part No.	Price Each			Bulgin Part No.
			1	25	50	
	Sealed USB Cable Assemblies					
1	IP68 Sealed Type A USB to Standard Type B USB, 2.0m Cable	708-1011-ND	9.41	8.37	6.97	PX0840/A/2M00
	IP68 Sealed Type A USB to Standard Type B USB, 3.0m Cable	708-1012-ND	11.61	10.33	8.60	PX0840/A/3M00
	IP68 Sealed Type A USB to Standard Type B USB, 5.0m Cable	708-1013-ND	15.46	13.76	11.44	PX0840/A/5M00
2	IP68 Sealed Type B USB to Standard Type A USB, 2.0m Cable	708-1014-ND	9.41	8.37	6.97	PX0840/B/2M00
	IP68 Sealed Type B USB to Standard Type A USB, 3.0m Cable	708-1015-ND	11.61	10.33	8.60	PX0840/B/3M00
	IP68 Sealed Type B USB to Standard Type A USB, 5.0m Cable	708-1016-ND	15.46	13.76	11.44	PX0840/B/5M00
3	IP68 Sealed Type A USB to IP68 Type B USB, 2.0m Cable	708-1017-ND	15.14	13.47	11.20	PX0841/AB/2M00
	IP68 Sealed Type A USB to IP68 Type B USB, 3.0m Cable	708-1018-ND	17.82	15.86	13.19	PX0841/AB/3M00
	IP68 Sealed Type A USB to IP68 Type B USB, 5.0m Cable	708-1019-ND	21.14	18.82	15.64	PX0841/AB/5M00
	Front Panel Mount Connectors					
4	IP68 Sealed Type A USB Front, 5 Position Crimp Connector Rear, 132mm Cable	708-1022-ND	11.68	10.40	8.65	PX0843/A
5	IP68 Sealed Type B USB Front, 5 Position Crimp Connector Rear, 132mm Cable	708-1023-ND	11.68	10.40	8.65	PX0843/B
6	IP68 Sealed Type A USB Front, Standard Type B Rear	708-1020-ND	10.61	9.45	7.85	PX0842/A
7	IP68 Sealed Type B USB Front, Standard Type A Rear	708-1021-ND	10.61	9.45	7.85	PX0842/B
	Rear Panel Mount Connectors					
8	IP68 Sealed Type A USB Front, Standard Type B Rear	708-1357-ND	10.86	9.67	8.05	PX0848/A
9	IP68 Sealed Type B USB Front, Standard Type A Rear	708-1358-ND	10.86	9.67	8.05	PX0848/B
10	IP68 Sealed Type B USB Front, 5 Position Header Rear, 120mm Cable	708-1359-ND	10.86	9.67	8.05	PX0849/B
	Rear Panel Mount — PCB Direct Mount Connectors					
11	IP68 Sealed Type A USB Front, Direct Mount PCB Contacts Rear	708-1024-ND	11.68	10.40	8.65	PX0845/A
12	IP68 Sealed Type B USB Front, Direct Mount PCB Contacts Rear	708-1025-ND	11.68	10.40	8.65	PX0845/B
	PCB Adapter Leads					
13	Type A USB to 5 Position Crimp Connector, 100mm Cable	708-1026-ND	3.51	3.12	2.59	14193
14	Type B USB to 5 Position Crimp Connector, 100mm Cable	708-1027-ND	3.51	3.12	2.59	14194
	Headers					
15	5 Position Straight PCB Header	708-1028-ND	.24	.21	.17	14191
16	5 Position Right Angle PCB Header	708-1029-ND	.28	.25	.21	14192
	Accessories					
17	IP68 USB Flash Drive Cover for "A" Type Connectors	708-1360-ND	3.24	2.89	2.53	PX0852

Mini USB Buccaneer® Connectors

Utilizing the industry standard Mini B connection for the panel connection, the latest in the USB Buccaneer range offers a secure, robust connection performing to USB V2.0, where dust or water could prove detrimental to system operation. The system is fully shielded providing good levels of noise immunity and EMI protection. Cables are fully overmoulded offering secure, tamper-proof connections. **Specifications:** • Protection Rating: IP68 • Current Rating: 1A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 50Ω • Mating Cycles: 5,000 • Connector Body: UL94V-0 Rated • Temperature Range: -20°C ~ 70°C

Fig.	Description	Digi-Key Part No.	Price Each			Bulgin Part No.
			1	25	50	
		Cable Assemblies				
1	IP68 Sealed Mini B USB Type A USB, 2.0m	708-1229-ND	11.15	9.92	8.25	PX0441/2M00
	IP68 Sealed Mini B USB Type A USB, 3.0m	708-1230-ND	13.30	11.83	9.84	PX0441/3M00
	IP68 Sealed Mini B USB Type A USB, 4.5m	708-1231-ND	24.02	21.38	17.78	PX0441/4M50
2	IP68 Sealed Mini B USB to Mini A USB, 2.0m	708-1232-ND	12.44	11.07	9.20	PX0442/2M00
	IP68 Sealed Mini B USB to Mini A USB, 3.0m	708-1233-ND	14.58	12.98	10.79	PX0442/3M00
	IP68 Sealed Mini B USB to Mini A USB, 4.5m	708-1234-ND	25.31	22.52	18.73	PX0442/4M50
		Connectors				
3	Panel Mount Mini B, 5 position Female Connector	708-1235-ND	7.51	6.68	5.55	PX0443
4	Rear Panel Mount, Mini B USB, 5 position Connector	708-1236-ND	7.51	6.68	5.55	PX0446
5	Rear Panel Mount, Mini B USB, PC Terminals	708-1237-ND	7.51	6.68	5.55	PX0447

Dim. in mm

Fig. 1

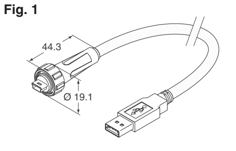

Fig. 2

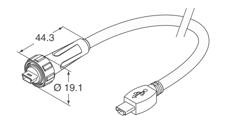

Fig. 3

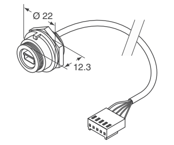

Fig. 4

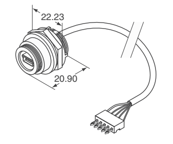

Fig. 5

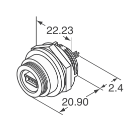

BULGIN Ethernet Buccaneer® Connectors

Features: • Dust and waterproof sealing to IP68 standard when mated • Cat5e compliant • Shielded system • Screw coupling • Data rate up to 100MHz • High noise immunity and EMI protection • Ability to "field" terminate **Cable Specifications:** • Impedance: 100Ω ±15Ω @ 100MHz • Capacitance: 330pF/km • Conductors: 24AWG bare copper • Insulation: HD-PE • Tape: 1 lap mylar tape • Screen: 1 layer mylar and aluminum tape, 0.12mm tinned copper braid • Sheath: Black Polyurethane (PUR) Jacket • Operating Temperature: -25°C ~ 85°C • Min. Bend Radius Before Installation: 10 x O.D. • Minimum Bend Radius Installed: 6 x O.D. • Diameter: 6.1mm nominal **Connector Specifications:** • Connector Body: Polyester • Flammability: UL94V-0 • O-Rings: Silicon • Panel Gasket: Silicon • Operating Temp: -20°C ~ 70°C

RJ45 Plug Specifications:• Current Rating: 1.5A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 10mΩ maximum • Moulding: Polycarbonate • Flammability: UL94V-0 • Contact Material: Phosphor Bronze • Contact Plating: 50µ" gold • Operating Temperature: -40°C ~ 70°C • Mating Cycles: 1,000

RJ45 Coupler Specifications: • Current Rating: 1.5A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 10mΩ maximum • Coupler Shell: Nickel plated copper alloy • Moulding: ABS • Flammability: UL94V-0 • Contact Material: 50µ" gold plated phosphor bronze • Operating Temperature: -40°C ~ 70°C • Mating Cycles: 1,000

Dim. in mm

Fig. 1

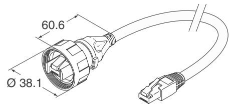

Fig. 2

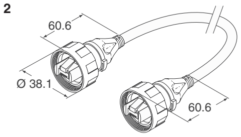

Fig. 3

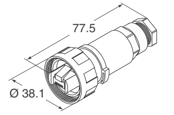

Fig. 4

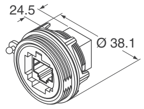

Fig. 5

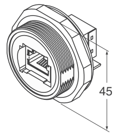

Fig. 6

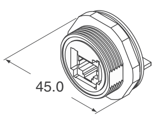

Fig. 7

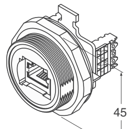

Fig. 8

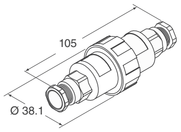

Fig. 9

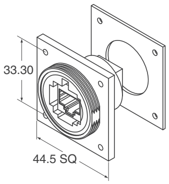

Fig. 10

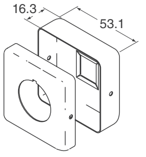

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	IP68 Sealed RJ45 to Shielded RJ45, 2.0m Cable	708-1003-ND	25.03	22.28	18.53	PX0837/2M00
	IP68 Sealed RJ45 to Shielded RJ45, 3.0m Cable	708-1004-ND	29.03	25.84	21.49	PX0837/3M00
	IP68 Sealed RJ45 to Shielded RJ45, 5.0m Cable	708-1005-ND	33.03	29.40	24.45	PX0837/5M00
2	IP68 Sealed RJ45 to IP68 Sealed RJ45, 2.0m Cable	708-1006-ND	31.03	27.62	22.97	PX0838/2M00
	IP68 Sealed RJ45 to IP68 Sealed RJ45, 3.0m Cable	708-1007-ND	36.04	32.07	26.67	PX0838/3M00
	IP68 Sealed RJ45 to IP68 Sealed RJ45, 5.0m Cable	708-1008-ND	39.04	34.74	28.90	PX0838/5M00
3	Flex Connector with Shielded RJ45, For Cables 3.5mm ~ 8mm Diameter	708-1002-ND	16.80	14.94	12.43	PX0834/B
	Flex Connector with Shielded RJ45, For PUR Jacket Cable	708-1365-ND	16.80	14.94	12.43	PX0834/A
4	Panel Mount Cat 5e Shielded Connector	708-1009-ND	35.00	31.14	25.89	PX0833
	Panel Mount Cat 5e Shielded Connector with Grounding Wire	708-1366-ND	37.66	33.52	27.86	PX0833/E
5	Rear Panel Mount Cat 5e Shielded RJ45 Connector, PCB, Right Angle	708-1369-ND	14.95	13.91	12.31	PX0839/90
6	Rear Panel Mount Cat 5e Shielded RJ45 Connector, PCB	708-1010-ND	12.46	11.58	10.26	PX0839/PC
7	Rear Panel Mount Cat 5e Shielded RJ45 Connector, IDC	708-1370-ND	32.74	30.44	26.94	PX0839/IDC
8	Cable Joiner for 3.5mm ~ 8mm Diameter Cables, Shielded	708-1363-ND	18.80	16.72	14.67	PX0777/STP
	Cable Joiner for 3.5mm ~ 8mm Diameter Cables, Unshielded	708-1364-ND	13.79	12.27	10.76	PX0777/UTP
	Cable Joiner for 3.5mm ~ 8mm Diameter Cables, Shielded Cat 5e	708-1460-ND	24.20	21.54	18.88	PX0777/CAT5ESTP
9	Flange Mount Cat 5e Shielded RJ45 Connector	708-1367-ND	35.00	31.14	25.89	PX0870
	Flange Mount Cat 5e Shielded RJ45 Connector with Grounding Wire	708-1368-ND	37.66	33.52	27.86	PX0870/E
10	Backshell Shield for PX0833	708-1373-ND	1.33	1.19	.99	PX0888
—	Replacement Shielded RJ45 Plug	708-1371-ND	3.15	2.89	2.63	14150
	Hand Crimp Tool and Die Set	708-1372-ND	502.90	—	—	14151

Bluetooth Buccaneer® Adapters

Features: • Dust and waterproof to IP68 standard when mated • Bluetooth V1.1 and V1.2 • Up to 100m range • Built-in antenna • Standard A-type USB interface • Secure screw thread locking • Windows XP recognized **Specifications:** • Frequency Band: 2.4GHz unlicensed ISM band • Sensitivity: -76dBm • Maximum Data Rate: 723kbps

Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
IP68 Rated, USB / Bluetooth Adapter, Class I	708-1000-ND	83.96	74.71	62.13	PX0880/1
IP68 Rated, USB / Bluetooth Adapter, Class II	708-1001-ND	64.20	57.14	47.51	PX0880/2

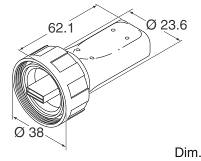

Dim. in mm

IP68 Ethernet Circular Connectors

SCPE Series

Specifications: • **Insulator Material:** Polycarbonate • **Contact Material:** Phosphor Bronze • **Shield Material:** Phosphor Bronze • **Overmold:** PA66 GF 13 FR • **Operating Temperature Range:** -40°C ~ 70°C • **Mates with:** SCRE • **Wire:** 24AWG

Dim. in mm

Fig. 1

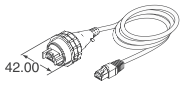

Fig. 2

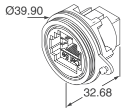

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Samtec Part No.
	Cable Plug Assemblies					
1	Sealed RJ45 Plug to RJ45, 2.0m	SAM8626-ND	28.18	21.14	20.44	SCPE-G-2.00-S
	Sealed RJ45 Plug to RJ45, 3.0m	SAM8627-ND	30.69	23.61	22.43	SCPE-G-3.00-S
	Sealed RJ45 Plug to RJ45, 5.0m	SAM8628-ND	37.11	28.55	27.12	SCPE-G-5.00-S
	Receptacle					
2	Sealed RJ45 Receptacle	SAM8629-ND	15.62	11.36	10.65	SCRE-01

IP68 USB Circular Connectors

SCPU Series

Specifications: • **Insulator Material:** Glass Filled Thermoplastic • **Contact Material:** Copper Alloy • **Shield Material:** CRS • **Sealed Overmold:** PA66 GF 13 FR • **Operating Temperature Range:** -20°C ~ 75°C • **Mates with:** SCRU

Dim. in mm

Fig. 1

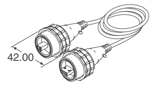

Fig. 2

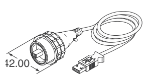

Fig. 3

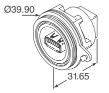

Fig. 4

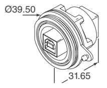

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Samtec Part No.
	Cable Plug Assemblies					
1	Sealed Type A to Sealed Type B, 2.0m	SAM8630-ND	19.89	14.68	14.21	SCPU-17-G-2.00-AMS-BMS
	Sealed Type A to Sealed Type B, 3.0m	SAM8631-ND	21.32	16.31	15.46	SCPU-17-G-3.00-AMS-BMS
	Sealed Type A to Sealed Type B, 5.0m	SAM8632-ND	26.08	19.56	18.91	SCPU-17-G-5.00-AMS-BMS
2	Sealed Type B to Type A, 2.0m	SAM8633-ND	19.01	14.03	13.58	SCPU-17-G-2.00-BMS-AM
	Sealed Type B to Type A, 3.0m	SAM8634-ND	20.48	15.67	14.85	SCPU-17-G-3.00-BMS-AM
	Sealed Type B to Type A, 5.0m	SAM8635-ND	25.24	18.93	18.30	SCPU-17-G-5.00-BMS-AM
	Receptacles					
3	Sealed USB Type A, Panel Mount	SAM8636-ND	7.46	6.04	5.68	SCRU-01
4	Sealed USB Type B, Panel Mount	SAM8637-ND	8.52	6.04	5.68	SCRU-02

MagJack® Integrated Connector Modules (ICM) —
Ethernet, PoE (Power over Ethernet), Gigabit, USB Options

RJ-45 connectors: Positions-Contacts per Port = 8-8

Fig. 1

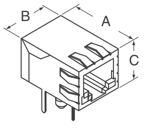

With LEDs

Fig. 2

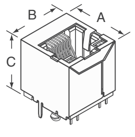

With LEDs

Fig. 3

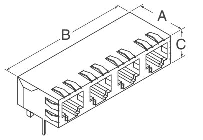

Fig. 4

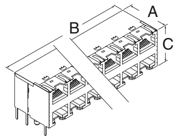

Fig. 5

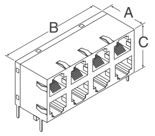

Fig. 6

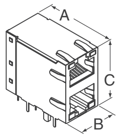

Fig. 7

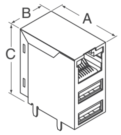

Fig.	SMD or THT(5)	No. of Rows X Ports(6)	Tab Latch Up/Down(1)	Shielding(3)	Auto MDIX	LEDs L-R(4,7)	Other Components(2)	Number of Cores(10)	Height Above PCB(8)	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Bel/Stewart Part No.
										A	B	C		1	25	100	
Common Mode Filter 10/100BASE-TX Jacks																	
1	THT	1X1	Tab Down	EMI Tabs	—	—	2wCMC	2	14.07	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1115-ND†	8.19	7.68	7.04	SI-60063-F
10/100BASE-TX																	
1	SMD	1X1	Tab Down	EMI Tabs	No	—	2wCMC	5	12.75	.950 (24.13)	.661 (16.79)	.502 (12.75)	507-1457-1-ND‡	12.08	10.74	7.61	S811-1X1T-A4-F
	SMD	1X1	Tab Down	EMI Tabs	No	—	2wCMC	5	12.75	.950 (24.13)	.661 (16.79)	.502 (12.75)	507-1457-2-ND§		626.50/175		S811-1X1T-A4-F
	SMD	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	4	12.75	.950 (24.13)	.765 (19.43)	.502 (12.75)	507-1456-1-ND‡	10.87	9.66	6.85	S811-1X1T-06-F
	SMD	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	4	12.75	.950 (24.13)	.765 (19.43)	.502 (12.75)	507-1456-2-ND§		563.50/175		S811-1X1T-06-F
	THT Low Profile	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	4	11.3	.950 (24.13)	.700 (17.78)	.445 (11.30)	507-1455-ND	4.92	4.09	3.57	L829-1X1T-91
	THT	1X1	Tab Up	None	Yes	G-G	2wCMC	4	14.07	.986 (25.04)	.599 (15.21)	.523 (13.28)	380-1104-ND†	4.61	4.32	3.96	SI-50196-F
	THT	1X1	Tab Up	Smooth	No	Y-G	2wCMC	5	13.97	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1172-ND ***NEW!***	9.57	8.97	8.23	SI-50163-F
	THT	1X1	Tab Up	EMI Tabs	No	Y-G	2wCMC	5	13.49	1.000 (25.40)	.645 (16.38)	.531 (13.49)	507-1423-ND	3.32	2.76	2.41	0817-1A1T-11-F
	THT	1X1	Tab Up	EMI Tabs	No	G/O-Y	2wCMC	5	13.49	1.030 (26.16)	.661 (16.79)	.531 (13.49)	507-1444-ND	3.40	2.83	2.47	08B0-1X1T-03-F
	THT	1X1	Tab Up	EMI Tabs	Yes	—	2wCMC	4	13.49	1.005 (25.53)	.642 (16.31)	.531 (13.49)	507-1448-ND	3.08	2.56	2.24	08B1-1X1T-06-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	2wCMC	4	13.49	1.030 (26.16)	.645 (16.38)	.531 (13.49)	507-1442-ND	3.28	2.73	2.38	08B0-1G1T-06-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	2wCMC	4	14.07	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1103-ND†	4.99	4.68	4.29	SI-50170-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-Y	2wCMC	4	14.07	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1102-ND†	4.99	4.68	4.29	SI-50154-F
	THT	1X1	Tab Up	EMI Tabs	Yes	Y-G	2wCMC	4	13.49	1.030 (26.16)	.642 (16.31)	.531 (13.49)	507-1441-ND	3.28	2.73	2.38	08B0-1D1T-06-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	4	13.49	1.030 (26.16)	.642 (16.31)	.531 (13.49)	507-1443-ND	5.94	4.94	4.31	08B0-1X1T-01-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	4	13.49	1.030 (26.16)	.642 (16.31)	.531 (13.49)	507-1445-ND	3.28	2.73	2.38	08B0-1X1T-06-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC (Ext. Temp.)	4	13.49	1.030 (26.16)	.642 (16.31)	.531 (13.49)	507-1446-ND	3.38	2.81	2.46	08B0-1X1T-36-F
	THT	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1105-ND†	4.67	4.38	4.02	SI-60002-F
	THT	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	4	14.29	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1170-ND† ***NEW!***	4.70	4.41	4.05	SI-60136-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G-G	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1139-ND†	5.09	4.77	4.38	SI-60001-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G-G	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1141-ND†	5.25	4.92	4.51	SI-60118-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G-Y	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1140-ND†	5.09	4.77	4.38	SI-60005-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G-Y	2wCMC	4	14.29	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1171-ND ***NEW!***	10.27	9.63	8.83	SI-60110-F
	THT	1X1	Tab Down	EMI Tabs	Yes	Y-G	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1106-ND†	5.09	4.77	4.38	SI-60062-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G/Y-G/Y	2wCMC	4	14.07	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1117-ND†	5.09	4.77	4.38	SI-60024-F
2	THT	1X1	Vertical Jack	Smooth	Yes	Y-G	2wCMC	4	17.02	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1108-ND†	5.12	4.80	4.40	SI-46001-F
10/100BASE-TX Multiport																	
3	THT	1X4	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC (Ext. Temp.)	4	13.49	1.027 (26.09)	2.292 (58.22)	.531 (13.49)	507-1447-ND	11.88	9.87	8.62	08B0-1X4T-36-F
10/100BASE-TX Dual Row Multiport																	
4	THT	2X4	Stack Jack	EMI Tabs	Yes	G/Y-G/Y	2wCMC	4	25.5	1.220 (30.99)	2.330 (59.18)	1.004 (25.50)	507-1419-ND	22.74	18.88	16.49	0810-2H4R-28-F
5	THT	2X4	Stack Jack	EMI Tabs	Yes	—	2wCMC	4	25.5	1.130 (28.70)	2.330 (59.18)	1.004 (25.50)	380-1126-ND	19.80	16.44	14.36	0811-2X4R-28-F
	THT	2X6	Stack Jack	EMI Tabs	Yes	—	2wCMC	4	25.5	1.130 (28.70)	3.430 (87.12)	1.004 (25.50)	380-1127-ND	29.70	24.66	21.54	0811-2X6R-28-F
	THT	2X8	Smooth	EMI Tabs	Yes	—	2wCMC	4	25.5	1.130 (28.70)	4.530 (115.06)	1.004 (25.50)	380-1128-ND	39.60	32.87	28.71	0811-2X8R-28-F
6	THT	2X1	Stack Jack	EMI Tabs	Yes	G-G	2wCMC	4	27.43	1.335 (33.91)	.679 (17.25)	1.080 (27.43)	380-1123-ND	8.64	8.10	7.43	0845-2G1T-H5
	THT	2X1	Stack Jack	EMI Tabs	Yes	Y-G	2wCMC	4	27.43	1.335 (33.91)	.679 (17.25)	1.080 (27.43)	380-1169-ND	8.64	8.10	7.43	0845-2D1T-H5
Combo 10/100BASE-TX Dual USB 2.0 Type A Female Ports																	
7	THT	1X1 w/1 USB	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC (Ext. Temp.)	4	21.08	1.155 (29.34)	.673 (17.09)	.830 (21.08)	507-1424-ND	5.36	4.45	3.89	0821-1X1T-36-F
	THT	1X1 w/2 USB	Smooth	Smooth	No	G-Y	2wCMC	5	31.42	1.090 (27.69)	.751 (19.07)	1.237 (31.42)	380-1091-ND	5.38	5.04	4.62	C893-1AX1-EI
	THT	1X1 w/2 USB	Tab Up	EMI Tabs	No	G/O-Y	2wCMC	5	29.72	1.027 (26.09)	.673 (17.09)	1.170 (29.72)	507-1449-ND	3.52	2.93	2.56	08C2-1X1T-03
	THT	1X1 w/2 USB	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	4	29.72	1.027 (26.09)	.673 (17.09)	1.170 (29.72)	507-1450-ND	3.58	2.98	2.60	08C2-1X1T-36
Power Over Ethernet (PoE) 10/100BASE-TX																	
1	THT	1X1	Tab Up	EMI Tabs	Yes	G-G/Y	2wCMC	6	13.61	1.290 (32.77)	.642 (16.31)	.536 (13.61)	507-1431-ND	4.22	3.51	3.06	0826-1L1T-57-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	3wCMC	4	13.97	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1119-ND	6.18	5.79	5.31	SI-52003-F
	THT	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	6	13.61	1.200 (30.48)	.661 (16.79)	.536 (13.61)	507-1421-ND	3.76	3.13	2.73	0813-1X1T-57-F
Power Over Ethernet (PoE) Gigabit 10/100/1000BASE-TX																	
1	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	8	13.61	1.300 (33.02)	.661 (16.79)	.536 (13.61)	507-1433-ND	10.14	8.42	7.36	0826-1X1T-80-F
Gigabit 10/100/1000BASE-TX																	
1	THT(9) Mid Plane	1X1	Tab Down	EMI Tabs	Yes	G-G	3wCMC	8	9.55	1.026 (26.06)	.650 (16.52)	.448 (11.38)	380-1111-ND	14.37	13.47	12.35	L834-1G1T-S7
	THT Low Profile	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	12	12.42	1.300 (33.02)	.642 (16.31)	.489 (12.42)	507-1451-ND	5.22	4.34	3.79	L826-1X1T-23-F
	THT Low Profile	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	8	11.3	.950 (24.13)	.700 (17.78)	.445 (11.30)	380-1110-ND	6.98	6.54	6.00	L829-1J1T-43

† Note: Pins without electrical connections may be omitted. ‡ Cut Tape § Tape and Reel

KEY (1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB

(2) CMC (Common Mode Choke) with HV Cap within the connector; no extra PCB real estate required. 2wCMC = 2 wire Common Mode Choke, 3wCMC = 3 wire Common Mode Choke

(3) EMI Tabs = On the outside face of the shield for connecting to a front panel

(4) LEDs require external 5V source and 250Ω external resistors ("R" = 250Ω internal resistor built-in)

(5) Package Mounting: THT = Through Hole, SMD = Surface Mount

(6) Note: For example, 1X4 = 1 row/4 ports per row or a 2X4 = 2 rows/4 ports per row

(7) LEDs: "—" = No LED; L-R = Left LED Color-Right LED Color : G = Green, Y = Yellow; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/Y = Green/Yellow

(8) Height of connector above PCB, does NOT include sheilding tabs

(9) Ultra Low Profile, PCB cut out required

(10) 4 Cores = 2 Transformers + 2 CMC's; 5 cores = 2 Transformers + 2 CMC's + Autotransformer; 6 cores = 2 Transformers + 2 CMC's + 2 Autotransformers; 8 Cores = 4 Transformers + 4 CMC's; 12 Cores = 4 Transformers + 4 CMC's + 4 Autotransformers

(11) VOIP = Voice Over Internet Protocol

(Continued)

Fig.	SMD or THT(5)	No. of Rows X Ports(6)	Tab Latch Up/Down(1)	Shielding(3)	Auto MDIX	LEDs L-R(4,7)	Other Components(2)	Number of Cores(10)	Height Above PCB(8)	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	Bel/Stewart Part No.
1	THT Low Profile	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	12	11.3	.950 (24.13)	.700 (17.78)	.445 (11.30)	507-1454-ND	6.60	5.48	4.79	L829-1J1T-D2
	THT	1X1	Tab Up	EMI Tabs	Yes	—	2wCMC	12	13.61	1.200 (30.48)	.661 (16.79)	.536 (13.61)	507-1422-ND	4.68	3.89	3.40	0816-1X1T-23-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	2wCMC	12	13.61	1.290 (32.77)	.642 (16.31)	.536 (13.61)	507-1426-ND	4.92	4.09	3.57	0826-1G1T-23-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	2wCMC	12	14.07	1.300 (33.02)	.661 (16.79)	.536 (13.61)	380-1165-ND	14.50	13.59	12.46	SI-50080-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G	3wCMC	8	13.61	1.300 (33.02)	.642 (16.31)	.536 (13.61)	507-1427-ND	4.42	3.67	3.21	0826-1G1T-43-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-Y	2wCMC	12	13.61	1.290 (32.77)	.642 (16.31)	.536 (13.61)	507-1425-ND	4.92	4.09	3.57	0826-1A1T-23-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G-G/Y	3wCMC	8	14.07	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1109-ND†	6.66	6.24	5.72	SI-51009-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	8(11)	13.61	1.290 (32.77)	.642 (16.31)	.536 (13.61)	380-1122-ND	16.51	15.48	14.19	0826-1X1T-M1-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	12	13.61	1.300 (33.02)	.661 (16.79)	.536 (13.61)	380-1121-ND	7.87	7.38	6.77	0826-1X1T-23-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	8	13.61	1.300 (33.02)	.661 (16.79)	.536 (13.61)	507-1432-ND	4.42	3.67	3.21	0826-1X1T-43-F
	THT	1X1	Tab Up	EMI Tabs	Yes	G/Y-G	2wCMC	12	13.61	1.300 (33.02)	.642 (16.31)	.536 (13.61)	507-1429-ND	4.92	4.09	3.57	0826-1K1T-23-F
	THT	1X1	Tab Up	EMI Tabs	Yes	Y/G-G	3wCMC	8	13.61	1.300 (33.02)	.642 (16.31)	.536 (13.61)	507-1430-ND	4.42	3.67	3.21	0826-1K1T-43-F
	THT	1X1	Tab Down	EMI Tabs	Yes	—	2wCMC	12	13.67	1.200 (30.48)	.644 (16.36)	.538 (13.67)	507-1420-ND	4.66	3.87	3.38	0813-1X1T-23-F
	THT	1X1	Tab Down	EMI Tabs	Yes	G-Y	2wCMC	8	14.07	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1142-ND	6.85	6.42	5.89	SI-61001-F
2	THT	1X1	Vertical Jack	Smooth	Yes	Y-G	2wCMC	8	17.02	.920 (23.37)	.640 (16.26)	.670 (17.02)	380-1120-ND	6.72	6.30	5.78	V890-1AX1-A1
Gigabit 10/100/1000BASE-T Multiport — RoHS Compliant																	
3	THT	1X2	Tab Down	EMI Tabs	Yes	G-G	2wCMC	8	13.84	1.000 (25.40)	1.238 (31.45)	.545 (13.84)	380-1112-ND	14.88	13.95	12.79	0875-1G2T-E3
	THT	1X2	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	12	13.64	1.300 (33.02)	1.194 (30.33)	.537 (13.64)	507-1434-ND	9.76	8.11	7.08	0826-1X2T-23-F
	THT Low Profile	1X4	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	12	12.42	1.300 (33.02)	2.294 (58.27)	.489 (12.42)	507-1452-ND	20.92	17.37	15.17	L826-1X4T-23-F
	THT Low Profile	1X4	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	8	12.42	1.300 (33.02)	2.294 (58.27)	.489 (12.42)	507-1453-ND	18.32	15.21	13.29	L826-1X4T-43-F
	THT	1X4	Tab Up	EMI Tabs	Yes	G-G	2wCMC	12	13.59	1.300 (33.02)	2.294 (58.27)	.535 (13.59)	507-1428-ND	19.54	16.22	14.17	0826-1G4T-23-F
	THT	1X4	Tab Up	EMI Tabs	Yes	G/O-Y	2wCMC	12	13.59	1.300 (33.02)	2.292 (58.22)	.535 (13.59)	507-1435-ND	19.54	16.22	14.17	0826-1X4T-23-F
	THT	1X4	Tab Up	EMI Tabs	Yes	G/O-Y	3wCMC	8	13.59	1.300 (33.02)	2.292 (58.22)	.535 (13.59)	507-1436-ND	17.60	14.61	12.76	0826-1X4T-43-F
7	THT	2X1	Stack Jack	EMI Tabs	Yes	G-G/Y	2wCMC	12	27.43	1.335 (33.91)	.679 (17.25)	1.080 (27.43)	380-1124-ND	13.44	12.60	11.55	0845-2R1T-E4
Gigabit 10/100/1000BASE-T Dual Row Multiport — RoHS Compliant																	
4	THT	2X4	Stack Jack	EMI Tabs	Yes	—	3wCMC	8	25.5	1.130 (28.70)	2.330 (59.18)	1.004 (25.50)	507-1438-ND	30.14	25.02	21.86	0833-2X4R-54-F
	THT	2X6	Stack Jack	EMI Tabs	Yes	G/O	3wCMC	8	25.5	1.220 (30.99)	3.430 (87.12)	1.004 (25.50)	507-1440-ND	45.66	37.90	33.11	0863-2X6R-54-F
6	THT	2X1	Stack Jack	EMI Tabs	Yes	—	2wCMC	12	25.91	1.243 (31.56)	.640 (16.26)	1.020 (25.91)	507-1437-ND	8.38	6.96	6.08	0833-2X1T-33-F
	THT	2X1	Stack Jack	EMI Tabs	Yes	G/O	2wCMC	12	26.67	1.350 (34.29)	.660 (16.76)	1.050 (26.67)	507-1439-ND	8.82	7.33	6.40	0843-2B1T-33-F

† Note: Pins without electrical connections may be omitted. **‡** Cut Tape **§** Tape and Reel

KEY (1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB
(2) CMC (Common Mode Choke) with HV Cap within the connector; no extra PCB real estate required. 2wCMC = 2 wire Common Mode Choke, 3wCMC = 3 wire Common Mode Choke
(3) EMI Tabs = On the outside face of the shield for connecting to a front panel
(4) LEDs require external 5V source and 250Ω external resistors ("R" = 250Ω internal resistor built-in)
(5) Package Mounting: THT = Through Hole, SMD = Surface Mount
(6) Note: For example, 1X4 = 1 row/4 ports per row or a 2X4 = 2 rows/4 ports per row
(7) LEDs: "—" = No LED; L-R = Left LED Color-Right LED Color : G = Green, Y = Yellow; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/Y = Green/Yellow
(8) Height of connector above PCB, does NOT include sheilding tabs
(9) Ultra Low Profile, PCB cut out required
(10) 4 Cores = 2 Transformers + 2 CMC's; 5 cores = 2 Transformers + 2 CMC's + Autotransformer; 6 cores = 2 Transformers + 2 CMC's + 2 Autotransformers; 8 Cores = 4 Transformers + 4 CMC's; 12 Cores = 4 Transformers + 4 CMC's + 4 Autotransformers
(11) VOIP = Voice Over Internet Protocol

Telecom Transformers

T1/E1/J1 Transformer

Fig.	Turns Ratio Pri.: Sec	Primary Inductance (mH)	DC Resistance (Ω) Primary	Secondary	Capacitance Pri.-Sec. (pF)	Digi-Key Part No.	Price Each 1	25	100	Bel/Stewart Part No.
1	1CT: 1	1.2	0.8	0.8	30	507-1458-ND	.72	.60	.53	0553-0013-BC-F

SHDSL Isolation Transformer

Fig.	Turns Ratio IC: Line (+-2%)	Primary Inductance (mH)	DC Resistance (Ω) IC Side	Line Side	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 200	Bel/Stewart Part No.
2	1:5.4	3	0.35	1.9	507-1466-1-ND	5.67	5.04	3.57	507-1466-2-ND	336.00	S560-6600-DJ-F

Fig. 1

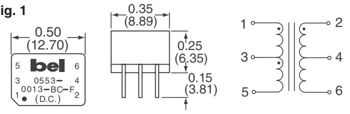

Fig. 2

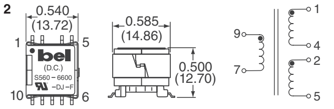

LAN Discrete Transformer Modules

Discrete modules provide electrical circuit isolation that meets applicable IEEE and ANSI standards, while maintaining signal integrity needed for the most demanding applications. 10/100BASE-TX and Gigabit modules provide common mode noise attenuation best matched to the specific transceiver being considered.

Number of Ports	Turns Ratio TX and RX	Number of Cores (1)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bel/Stewart Part No.
10/100BASE-TX											
1	1CT:1CT	2	16-Pin SOIC	507-1472-1-ND	10.80	9.60	6.80	507-1472-2-ND	750	2400.00	S558-5999-03-F
	1CT:1CT	4	16-Pin SOIC	507-1459-1-ND	4.39	3.90	2.77	507-1459-2-ND	750	975.00	S558-5999-T7-F
	1CT:1CT	4	16-Pin SOIC	507-1463-1-ND	4.79	4.26	3.02	507-1463-2-ND	750	1065.00	S558-5999-U7-F
	1CT:1CT	4	16-Pin SOIC	507-1465-1-ND	5.27	4.68	3.32	507-1465-2-ND	750	1170.00	S558-5999-W2-F
	1CT:1CT	4	16-Pin SOIC	507-1467-1-ND	4.79	4.26	3.02	507-1467-2-ND	750	1065.00	S558-5999-J1-F
	1CT:1CT	4	16-Pin SOIC (2)	507-1460-1-ND	4.79	4.26	3.02	507-1460-2-ND	750	1065.00	S558-5999-T5-F
	1CT:1CT	4	16-Pin SOIC (2)	507-1475-1-ND	4.79	4.26	3.02	507-1475-2-ND	750	1065.00	S558-5999-Z5-F
	1CT:1CT	5	16-Pin SOIC	507-1461-1-ND	5.60	4.98	3.53	507-1461-2-ND	300	498.00	S558-5999-46-F
	1CT:1CT:2CT	4	16-Pin SOIC	507-1468-1-ND	3.65	3.24	2.30	507-1468-2-ND	750	810.00	S553-5999-86-F
2	1CT:1CT	12	40-Pin SOIC (2)	507-1473-1-ND	11.21	9.96	7.06	507-1473-2-ND	200	664.00	S558-5999-AF-F
4	1CT:1CT	4	40-Pin SMD	507-1474-1-ND	11.61	10.32	7.31	507-1474-2-ND	200	688.00	S558-5999-Q9-F
Gigabit 10/100/1000BASE-TX											
1	1CT:1CT	8	24-Pin Mini PCI	507-1469-1-ND	12.42	11.04	7.82	507-1469-2-ND	1,000	3680.00	S558-5999-AZ-F
	1CT:1CT	8	24-Pin SMD	507-1470-1-ND	9.99	8.88	6.29	507-1470-2-ND	300	888.00	S558-5999-M8-F
	1CT:1CT	12	24-Pin SMD	507-1462-1-ND	10.80	9.60	6.80	507-1462-2-ND	300	960.00	S558-5999-P3-F
2	1CT:1CT	8	48-Pin SMD	507-1471-1-ND	18.02	16.02	11.35	507-1471-2-ND	200	1068.00	S558-5999-Q2-F
	1CT:1CT	12	48-Pin SMD	507-1464-1-ND	22.01	19.56	13.86	507-1464-2-ND	200	1304.00	S558-5999-Q3-F

KEY (1) 2 Cores = 2 Transformers; 4 Cores = 2 Transformers + 2 CMC's; 5 Cores = 2 Transformers + 2 CMC's + Autotransformer; 6 Cores = 2 Transformers + 2 CMC's + 2 Autotransformers; 8 Cores = 4 Transformers + 4 CMC's; 12 cores = 4 Transformers + 4 CMC's + 4 Autotransformers
(2) Extended Temperature Range Module

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Modular Plugs

Series	Description	Positions - Contacts	Crimp Tool with Die	Die only	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Bel/Stewart Part No.
Unshielded Plugs (any die works with all crimp tools used for unshielded plugs)													
30	Plug, Handset	4-4	380-1055-ND	380-1059-ND	.525 (13.33)	.300 (7.62)	.260 (6.60)	.485 (12.32)	380-1002-ND	.19	.18	.17	940-SP-3044
	Plug	6-4	380-1056-ND	380-1060-ND	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1003-ND	.23	.22	.20	940-SP-3046
	Plug	6-6	380-1056-ND	380-1060-ND	.525 (13.33)	.260 (6.60)	.260 (6.60)	.534 (13.57)	380-1004-ND	.27	.26	.24	940-SP-3066
	Plug	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1137-ND	.39	.37	.34	937-SP-3088
	Plug, .038" (.968mm) OD Cable	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1005-ND	.39	.37	.34	940-SP-3088R
	Plug, .038" (.968mm) OD Cable	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1138-ND	.39	.37	.34	937-SP-3088R
	Plug, .040" (1.02mm) OD Cable	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1006-ND	.39	.37	.34	940-SP-3088R-A133
	Plug	10-10	380-1058-ND	380-1062-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1000-ND	.58	.54	.50	940-SP-301010R
	Plug, .038" (.968mm) OD Cable	10-10	380-1058-ND	380-1062-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1136-ND	.58	.54	.50	937-SP-301010R
37	Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.884 (22.46)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1008-ND	.47	.45	.41	943-SP-370808M2-A264
	Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1098-ND	.47	.45	.41	SS-37000-002
39	Plug, CAT-6, Anti-Snag	8-8	380-1134-ND 380-1133-ND‡	380-1131-ND 380-1129-ND	1.47 (37.34)	.460 (11.68)	.312 (7.92)	—	380-1092-ND	1.02	.96	.88	SS-39100-008
Shielded and Specialty Plugs (require special crimp tools and die)													
36	Plug	6-6	380-1133-ND‡	380-1184-ND	1.046 (26.57)	.380 (9.65)	.360 (9.14)	—	380-1182-ND✔	5.86	5.49	5.04	937-SP-360606
	Plug	8-8	380-1133-ND‡	380-1135-ND	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1180-ND✔	1.64	1.54	1.42	940-SP-360808-031-A108
	Plug	8-8	380-1133-ND‡	380-1135-ND	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1007-ND	1.65	1.55	1.42	940-SP-360808-A108
	Plug	10-10	380-1133-ND‡	380-1183-ND	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1181-ND✔	1.72	1.61	1.48	937-SP-361010-A161
37	Plug, CAT-5e	8-8	380-1133-ND‡	380-1135-ND	.884 (22.46)	.460 (11.68)	.360 (9.14)	—	380-1009-ND	1.02	.96	.88	943-SP-370808SM2A264
	Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.897 (22.78)	.460 (11.68)	.321 (8.15)	—	380-1099-ND	1.14	1.07	.98	SS-37200-028
	Plug, CAT-5e	8-8	380-1133-ND‡	380-1135-ND	1.030 (26.16)	.460 (11.68)	.360 (9.14)	.582 (14.78)	380-1179-ND✔	1.75	1.65	1.51	943-SP-370808SM2
39	Plug, CAT-6	8-8	380-1133-ND‡	380-1130-ND	.884 (22.46)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1014-ND	1.29	1.22	1.12	SS-39100-002
	Plug, CAT-6	8-8	380-1132-ND	—	1.67 (42.4)	.540 (13.71)	.312 (7.92)	—	380-1093-ND	1.89	1.77	1.63	SS-39200-011

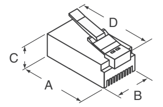

‡ Crimp tool only, Die must be purchased separately ✔ ***NEW!***

Crimp Tools and Die Sets

Positions	Digi-Key Part No.	Price Each	Bel/Stewart Part No.
Crimp Tool and Die Set			
298 Series			
8	380-1132-ND	299.00	2980075-01
299 Series*			
4	380-1055-ND	96.72	2990001-01
6	380-1056-ND	96.72	2990002-01
8	380-1057-ND	96.72	2990003-01
8	380-1134-ND	128.96	2990009-01
10	380-1058-ND	96.72	2990007-01
Crimp Tool Only			
8	380-1133-ND‡	239.20	2940231-01

Positions	Digi-Key Part No.	Price Each	Bel/Stewart Part No.
Modular Die Set Only			
290 Series			
6	380-1184-ND ***NEW!***	213.72	2906252-01
8	380-1129-ND	218.40	2905029-01
8	380-1130-ND	218.40	2905014-01
8	380-1135-ND	284.96	2906253-01
10	380-1183-ND ***NEW!***	263.64	2906255-01
299 Series*			
4	380-1059-ND	29.64	2990004-01
6	380-1060-ND	29.64	2990005-01
8	380-1061-ND	29.64	2990006-01
8	380-1131-ND	48.66	2990010-01
10	380-1062-ND	32.82	2990008-01

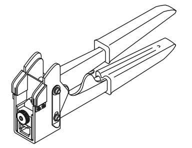
299 Series Crimp Tool shown

‡ Crimp tool only, Die must be purchased separately, 290 Series dies will fit into this tool. * 299 Series Crimp Tool will accept any 299 Series die sets. See website for additional die options.

Modular Jacks

Fig. 1

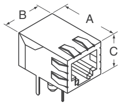

Fig. 2

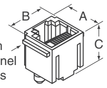

Fig. 3

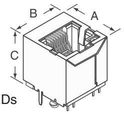

Fig. 4

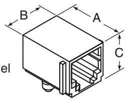

Fig. 5

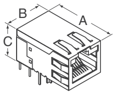

Fig. 6

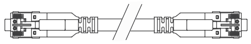

Fig. 7

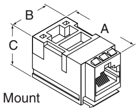

Fig. 8

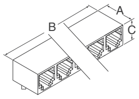

Fig. 9

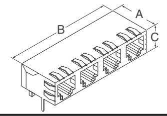

Fig. 10

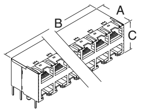

EPP-918A Environmental Protection Coated Jacks

Features: • Protective compound provides both pore blocking and lubricating properties • An Ultraviolet (UV) tracer dye is added to enable easy visual inspection • Shields contacts from environmental contaminants, corrosive elements and wear resulting from repetitive mating/un-mating forces The EPP-918A blocks the metal contact pores and increases the durability of the connector from a standard 750 mating cycles to over 2,500 mating cycles.

Fig.	Positions - Contacts	Number of Ports	Shielding Type†	Panel Stop Flange (Yes/No)	Tab Orientation	Series	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	Bel/Stewart Part No.
1	8-8	1	E-Shielded	No	Down	71	.850 (21.59)	.640 (16.26)	.550 (13.97)	380-1166-ND	3.13	2.94	2.69	SS71800-019G
2	6-2	1	Unshielded	No	Vertical	65	.625 (15.87)	.530 (13.46)	.642 (16.31)	380-1153-ND	2.53	2.37	2.18	SS65600-010G
3	8-8	1	Unshielded	No	Vertical	60	.644 (16.36)	.610 (15.49)	.650 (16.51)	380-1152-ND	2.82	2.64	2.42	SS60000-007G
4	6-6	1	Shielded	No	Down	63	.815 (20.70)	.525 (13.34)	.620 (15.75)	380-1168-ND	1.93	1.81	1.66	SS63600-007G
5	8-8	1	Shielded	No	Up	60	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1148-ND	3.52	3.30	3.03	SS60000-009G
	8-8	1	Unshielded	No	Up	60	.815 (20.70)	.605 (15.36)	.535 (13.59)	380-1167-ND	2.82	2.64	2.42	SS60000-010G
	8-8	1	E-Shielded	No	Down	64	.850 (21.59)	.635 (16.13)	.545 (13.84)	380-1150-ND	2.75	2.58	2.37	SS64800-057G
	8-8	1	E-Shielded	No	Down	71	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1154-ND	2.69	2.52	2.31	SS71800-018G
	10-8	1	E-Shielded	No	Down	70	.738 (18.74)	.626 (15.90)	.514 (13.06)	380-1151-ND	2.69	2.53	2.32	SS70100-011G
Multiport Jack														
9	8-8	8	Unshielded	No	Down	66	.815 (20.70)	4.505 (114.43)	.523 (13.28)	380-1149-ND	14.30	13.41	12.30	SS66800-036G

Standard Modular Jacks

Fig.	Positions - Contacts	Number of Ports	Shielding Type†	Panel Stop Flange (Yes/No)	Tab Orientation	Series	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	Bel/Stewart Part No.
1	6-6	1	E-Shielded	No	Down	64	.850 (21.59)	.545 (13.84)	.599 (15.21)	380-1177-ND ***NEW!***	1.21	1.14	1.04	SS-6466S-A-PG4-BA
	6-6	1	E-Shielded	No	Down	64	.850 (21.59)	.545 (13.84)	.599 (15.21)	380-1020-ND	1.28	1.20	1.10	SS-6466S-A-PG4-BA-50
	8-8	1	E-Shielded	No	Down	64	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1025-ND	1.53	1.44	1.32	SS-6488S-A-PG4-BA
	8-8	1	E-Shielded	No	Down	71	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1049-ND	1.86	1.75	1.61	SS-7188S-A-PG4-BA
	8-8	1	E-Shielded	No	Down	71	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1161-ND	1.94	1.82	1.67	SS-7188S-A-PG4-BA-50
	8-8	1	EA-Shielded	No	Down	71	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1048-ND	1.86	1.75	1.61	SS-7188S-A-PG4-1-BA
	10-8	1	E-Shielded	No	Down	70	.738 (18.74)	.626 (15.90)	.475 (12.06)	380-1040-ND	1.86	1.75	1.61	SS-700810S-A-PG4-BA
	10-8	1	EA-Shielded	No	Down	70	.738 (18.74)	.626 (15.90)	.475 (12.06)	380-1039-ND	1.86	1.75	1.61	SS-700810S-A-PG4-1-BA

† Shielding Tab Type: E-Shielded = Enhanced Shielded Tabs; EA-Shielded = Enhanced Shielded Tabs with Alternate Ground Tail Option ‡ Surface Mount Connector § Comes with strain relief and crimp ferrule *(Continued)*

bel COMPONENTS FOR A CONNECTED PLANET™ **Stewart Connector**

Modular Connectors, Transformers, Plugs and Tools

Standard Modular Jacks *(Cont.)*

RoHS COMPLIANT

Fig.	Positions - Contacts	Number of Ports	Shielding Type†	Panel Stop Flange (Yes/No)	Tab Orientation	Series	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Bel/Stewart Part No.
							A	B	C		1	25	100	
2	4-4	1	Unshielded	No	Vertical	65	.650 (16.51)	.455 (11.56)	.650 (16.51)	380-1030-ND	2.16	2.03	1.86	SS-6544-NF
	6-6	1	Unshielded	No	Vertical	65	.650 (16.51)	.535 (13.59)	.650 (16.51)	380-1147-ND	1.29	1.21	1.11	SS-6566-NF
	6-6	1	Unshielded	Yes	Vertical	65	.650 (16.51)	.535 (13.59)	.650 (16.51)	380-1175-ND ***NEW!***	1.90	1.79	1.64	SS-6566-FLS
	8-8	1	Unshielded	No	Vertical	60	.650 (16.51)	.610 (15.49)	.644 (16.36)	380-1094-ND	2.31	2.17	1.99	SS-60000-007
	8-8	1	Unshielded	No	Vertical	71	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1050-ND	1.23	1.16	1.06	SS-7188V-A-NF
	10-8	1	Unshielded	No	Vertical	65	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1026-ND	1.15	1.08	.99	SS-650810-A-NF
	10-10	1	Unshielded	No	Vertical	65	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1029-ND	1.29	1.22	1.12	SS-651010-A-NF
	10-10	1	Unshielded	Yes	Vertical	65	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1113-ND	2.18	2.05	1.88	SS65100-030F
3	8-8	1	Shielded	No	Vertical	60	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1095-ND	3.68	3.45	3.17	SS-60000-008
	8-8	1	Shielded	No	Vertical	71	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1162-ND	2.14	2.01	1.84	SS-7188VS-A-NF-50
	8-8	1	Shielded	No	Vertical	71	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1163-ND	1.66	1.56	1.43	SS71800-027F
	10-8	1	Shielded	No	Vertical	65	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1028-ND	1.83	1.72	1.58	SS-650810S-A-NF
	10-8	1	Shielded	Yes	Vertical	65	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1027-ND	1.83	1.72	1.58	SS-650810S-A-FLS
	10-10	1	Shielded	No	Vertical	65	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1146-ND	1.94	1.82	1.67	SS-651010S-A-NF
4	4-4	1	Unshielded	No	Down	64	.815 (20.70)	.445 (11.30)	.505 (12.83)	380-1017-ND	.80	.75	.69	SS-6444-NF
	6-4	1	Unshielded	No	Down	64	.815 (20.70)	.530 (13.46)	.505 (12.83)	380-1018-ND	.70	.66	.60	SS-6446-NF
	6-4	1	Unshielded	No	Down	70	.712 (18.08)	.525 (13.33)	.453 (11.51)	380-1042-ND	1.03	.97	.89	SS-7046-NF
	6-6	1	Unshielded	No	Down	63	.815 (20.70)	.525 (13.34)	.620 (15.75)	380-1143-ND	1.10	1.03	.95	SS-6366-1-NF
	6-6	1	Unshielded	No	Down	64	.815 (20.70)	.530 (13.46)	.505 (12.83)	380-1019-ND	.83	.78	.72	SS-6466-NF
	6-6	1	Unshielded	No	Down	70	.712 (18.08)	.525 (13.33)	.453 (11.51)	380-1043-ND	.70	.66	.60	SS-7066-NF
	6-6	1 (SMD)	Unshielded	Yes	Down	68	.725 (18.42)	.525 (13.34)	.505 (12.83)	380-1037-ND‡	2.75	2.58	2.36	SS6866B-FLS-C40
	8-8	1	Unshielded	No	Down	63	.815 (20.70)	.605 (15.36)	.620 (15.75)	380-1144-ND	1.16	1.10	1.01	SS-6388-NF
	8-8	1	Unshielded	No	Down	64	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1022-ND	.83	.78	.72	SS-6488-NF
	8-8	1	Unshielded	No	Down	71	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1046-ND	1.33	1.25	1.15	SS-7188-NF
	8-8	1	Unshielded	Yes	Down	64	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1021-ND	.83	.78	.72	SS-6488-FLS
	8-8	1	Shielded	No	Down	71	.815 (20.70)	.635 (16.13)	.505 (12.82)	380-1047-ND	1.83	1.72	1.58	SS-7188S-A-NF
	8-8	1	Shielded	No	Down	64	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1024-ND	1.43	1.35	1.23	SS-6488S-A-NF
	8-8	1	Shielded	No	Down	64	.722 (18.34)	.635 (16.13)	.530 (13.46)	380-1178-ND ***NEW!***	2.12	2.00	1.83	SS-640810S-A-NF-A111
	8-8	1	Shielded	Yes	Down	64	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1023-ND	1.53	1.44	1.32	SS-6488S-A-FLS
	8-8	1	EA-Shielded	No	Down	64	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1176-ND ***NEW!***	1.54	1.44	1.32	SS-6488S-A-NF-1
	10-8	1	Unshielded	No	Down	70	.712 (18.08)	.600 (15.24)	.453 (11.51)	380-1038-ND	1.02	.96	.88	SS-700810-NF
	10-10	1	Unshielded	No	Down	64	.815 (20.70)	.605 (15.36)	.505 (12.83)	380-1015-ND	1.10	1.03	.95	SS-641010-NF
	10-10	1	Shielded	No	Down	64	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1016-ND	1.73	1.63	1.49	SS-641010S-A-NF
5	6-6	1	E-Shielded	No	Down	64	.850 (21.59)	.545 (13.84)	.550 (13.97)	380-1145-ND	1.20	1.13	1.03	SS-6466S-A-PG1
	8-8	1	Unshielded	No	Down	60	.815 (20.70)	.605 (15.36)	.535 (13.59)	380-1097-ND	2.31	2.17	1.99	SS-60000-010
	8-8	1	Shielded	No	Up	60	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1096-ND	3.58	3.36	3.08	SS-60000-009
	8-8	1	E-Shielded	No	Down	74	.850 (21.59)	.635 (16.13)	.559 (14.20)	380-1173-ND▲ ***NEW!***	2.06	1.94	1.78	SS-7488S-BN-PG3-BA-A458
ARJ45™ Category 7a														
5	8-8	1	Shielded	No	Up	77	.860 (21.84)	.600 (15.24)	.530 (13.46)	380-1125-ND	13.34	12.51	11.47	SS-77100-004
ARJ45™ Category 7a Patch Cords														
6	8-8	Cable	Shielded	—	—	77	1 Meter (Length)			380-1155-ND	39.80	33.04	28.86	CA77-001M0-8
	8-8	Cable	Shielded	—	—	77	2 Meter (Length)			380-1156-ND	42.70	35.45	30.96	CA77-002M0-8
	8-8	Cable	Shielded	—	—	77	3 Meter (Length)			380-1157-ND	45.66	37.90	33.11	CA77-003M0-8
	8-8	Cable	Shielded	—	—	77	5 Meter (Length)			380-1158-ND	51.76	42.97	37.53	CA77-005M0-8
Round Cable Applied Jacks														
7	8-8	Cable Ready	Unshielded	Yes	Panel Mount	82	1.073 (27.25)	.619 (15.72)	.654 (16.61)	380-1100-ND	5.49	5.15	4.72	SS-82000-002
	8-8	Cable Ready	Shielded§	Yes	Panel Mount	82	1.51 (38.35)	.690 (17.53)	.680 (17.27)	380-1101-ND	13.34	12.51	11.47	SS-82100-001
	10-8	Cable Ready	Unshielded	Yes	Panel Mount	80	1.300 (33.02)	.750 (19.05)	.780 (19.81)	380-1078-ND	5.45	5.11	4.69	SS-800810SB-SP50-040-250
Multiport Jacks														
8	6-6	2	Unshielded	No	Down	66	.815 (20.70)	.848 (21.54)	.503 (12.78)	380-1031-ND	2.25	2.12	1.94	SS-666602-NF
	6-6	4	Unshielded	No	Down	66	.815 (20.70)	1.744 (44.30)	.503 (12.78)	380-1032-ND	4.67	4.38	4.02	SS-666604-NF
	8-8	2	Shielded	No	Down	71	.865 (21.97)	1.254 (31.85)	.545 (13.84)	380-1044-ND	5.25	4.92	4.51	SS-718802S-A-NF
	8-8	4	Unshielded	No	Down	66	.815 (20.70)	2.305 (58.55)	.523 (13.28)	380-1159-ND	3.84	3.60	3.30	SS66800-017F
	8-8	4	E-Shielded	No	Down	66	.865 (21.97)	2.100 (53.34)	.545 (13.84)	380-1035-ND	7.97	7.47	6.85	SS-668804S-A-PG4-AC
	8-8	8	E-Shielded	No	Down	66	.865 (21.97)	4.554 (115.67)	.539 (13.69)	380-1036-ND	11.68	10.95	10.04	SS-668808S-A-PG4-AC
9	8-8	4	E-Shielded	No	Down	71	.865 (21.97)	2.354 (59.79)	.545 (13.84)	380-1160-ND	5.50	5.16	4.73	SS71800-041F
Dual Row Multiport Jacks														
10	8-8	8	E-Shielded	No	Up/Down	73	1.103 (28.02)	2.329 (59.16)	1.004 (25.50)	380-1174-ND ***NEW!***	12.10	11.34	10.40	SS-73100-073
	8-8	12	Shielded	No	Up/Down	73	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	380-1052-ND	12.69	11.90	10.91	SS-73100-046
	8-8	16	Shielded	No	Up/Down	73	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	380-1164-ND	31.45	29.49	27.03	SS73100-047F

† Shielding Tab Type: E-Shielded = Enhanced Shielded Tabs; EA-Shielded = Enhanced Shielded Tabs with Alternate Ground Tail Option ‡ Surface Mount Connector § Comes with strain relief and crimp ferrule ▲ LED Indicator

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CUI INC

Modular Components

Fig.	Description	Digi-Key Part No.	Pricing			CUI Part No.
			1	10	50	
1	DB9S to RJ12 Jack (6-6)	046-0003-ND†◆	4.13	37.13	165.00	AMK-0003
2	DB9P to RJ12 Jack (6-6)	046-0002-ND†◆	4.13	37.13	165.00	AMK-0002
1	DB9S to RJ45 Jack (8-8)	046-0001-ND†◆	4.13	37.13	165.00	AMK-0001
2	DB9P to RJ45 Jack (8-8)	046-0000-ND†◆	4.13	37.13	165.00	AMK-0000
1	DB15S to RJ12 (6-6)	046-0017-ND†	4.63	41.63	185.00	AMK-0017
2	DB15P to RJ12 (6-6)	046-0016-ND†◆	4.63	41.63	185.00	AMK-0016
1	DB15S to RJ45 (8-8)	046-0005-ND†◆	4.63	41.63	185.00	AMK-0005
2	DB15P to RJ45 (8-8)	046-0004-ND†◆	4.63	41.63	185.00	AMK-0004
1	DB25S to RJ12 (6-6)	046-0009-ND†◆	4.38	39.38	175.00	AMK-0222
2	DB25P to RJ12 (6-6)	046-0008-ND†◆	4.38	39.38	175.00	AMK-0221
1	DB25S to RJ45 (8-8)	046-0011-ND†◆	4.38	39.38	175.00	AMK-0011
2	DB25P to RJ45 (8-8)	046-0010-ND†◆	4.38	39.38	175.00	AMK-0223
3	4 Wire TEE Adapter 1M-2F	048-0050-ND◆	2.75	24.75	110.00	AMK-0026
	6 Wire TEE Adapter 1M-2F	048-0051-ND◆	4.05	36.45	162.00	AMK-0051
4	6-6 Modular Coupling (crossed) #1 to #6	048-0056-ND◆	2.28	20.48	91.00	AMK-0056
	6-6 Modular Coupling (straight) #1 to #1	048-0103-ND◆	2.28	20.48	91.00	AMK-0103

† User Configurable ◆ ***RoHS Compliant***

Fig. 1

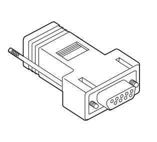

Fig. 2

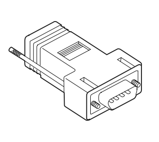

Fig. 3

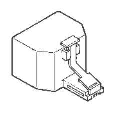

Fig. 4

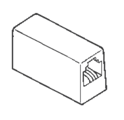

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

FCI

Modular Jacks

Digi-Reel® RoHS COMPLIANT

Fig. 1

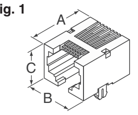

Fig. 2

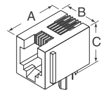

Fig. 3

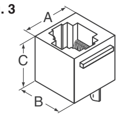

Fig. 4

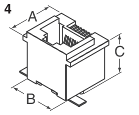

Fig.	Positions-Contacts	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
					Horizontal Jack — PC Board Mount				
1	4-4	0.810 (20.57)	0.540 (13.72)	0.590 (14.99)	609-1050-ND	1.87	.82	.70	68897-001LF
	4-4	0.709 (18.00)	0.441 (11.20)	0.453 (11.50)	609-1054-ND	1.49	.81	.69	87180-044LF
	4-4	0.480 (12.20)	0.485 (12.32)	0.725 (18.41)	609-3785-ND ***NEW!***	.80	.40	.32	66010-004LF
	6-2	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1055-ND	.99	.44	.36	87180-062LF
	6-4	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1056-ND	1.49	.81	.69	87180-064LF
	6-4	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1060-ND	1.02	.52	.44	88400-064LF
	6-4	0.480 (12.20)	0.485 (12.32)	0.725 (18.41)	609-3784-ND ***NEW!***	.87	.44	.35	66011-007LF
	6-6	0.480 (12.20)	0.485 (12.32)	0.725 (18.41)	609-3691-ND ***NEW!***	1.00	.48	.41	66011-006LF
	6-6	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1057-ND	1.59	.88	.76	87180-066LF
	6-6	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1061-ND	1.19	.63	.53	88400-066LF
	8-8	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1046-ND	.78	.38	.32	54602-908LF
	8-8	0.709 (18.00)	0.600 (15.24)	0.453 (11.50)	609-1058-ND	1.70	.96	.82	87180-088LF
	8-8	0.723 (18.36)	0.614 (15.60)	0.460 (11.68)	609-1069-ND§	4.90	3.04	2.76	72231-0881LF
	10-10	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1047-ND	.86	.43	.35	54602-910LF
2	6-6	0.809 (20.57)	0.620 (15.75)	0.590 (14.99)	609-3632-ND	1.56	.88	.76	68898-001LF
					Vertical Jack — PC Board Mount				
3	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1051-ND	1.49	.81	.69	69253-001LF
	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1067-ND	.73	.37	.30	61835-0441LF
	6-4	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-3633-ND	1.48	.82	.70	69254-002LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1052-ND	1.62	.90	.77	69254-001LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1063-ND	1.59	.88	.76	90512-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1053-ND	1.85	.97	.84	69255-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1065-ND	2.13	1.22	1.06	90598-001LF
	8-8	0.665 (16.90)	0.626 (15.90)	0.620 (15.82)	609-1072-ND§	2.41	1.30	1.12	94152-088LF
					Vertical Jack — SMD				
4	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-1-ND†	2.00	1.11	.93	87543-4111LF
	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-2-ND‡	309.66/350			87543-4111LF
	6-4	0.615 (15.62)	0.520 (13.21)	0.625 (15.87)	609-1064-ND	.85	.43	.35	90512-003LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-1-ND†	2.31	1.28	1.07	87545-4111LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-2-ND‡	1299.06/1,400			87545-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-1-ND†	1.93	1.14	.99	87547-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-2-ND‡	339.75/350			87547-4111LF

§ Shielded † Cut Tape ‡ Tape and Reel

Pulse® A TECHNITROL COMPANY Excelsus®

DSL (CPE) Filters

Fig. 1

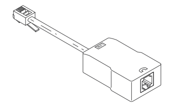

Fig. 2

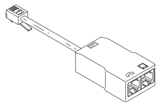

Fig. 3

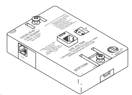

Z-330CW shown

Fig. 4 ***NEW!***

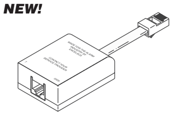

These customer premises equipment (CPE) filters are designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) and home phoneline network (HPN) services over plain old telephone service (POTS). Its filter design electronically isolates the high-speed DSL and HPN data streams from the voice-band POTS to provide premium voice quality and optimal DSL and HPN data rates. Compliant and listed with FCC, UL, CE, and CSA.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Pulse Part No.
1	Single Line DSL Filter - Ivory	553-1183-ND◆	2.68	1.59	1.43	Z-230PJ
2	Single Line DSL Filter - White	553-1426-ND◆	3.06	1.89	1.77	Z-300TJ
	Dual Line DSL Filter - White	553-1187-ND◆ ***NEW!***	5.13	3.33	3.14	Z-D250P2J
	ANSI Dual Line DSL Filter - White	553-1495-ND◆ ***NEW!***	6.99	3.27	2.76	Z-330P2J2
	ANSI Single Line DSL Filter - Ivory	553-1185-ND◆	4.07	2.41	2.17	Z-330P2J
3	ANSI Single Line DSL Filter Wall-Mount - Ivory	553-1186-ND	6.21	3.83	3.58	Z-330CW
	Dual Line DSL Filter Wall-Mount - Ivory	553-1496-ND†◆ ***NEW!***	11.99	6.83	6.02	Z-D250CWA
4	Alarm Panel Single Line DSL Filter - Black	553-1497-ND◆ ***NEW!***	19.99	13.50	12.75	Z-A431PJ31X-A
	Alarm Panel Single Line DSL Filter - White	553-1505-ND◆ ***NEW!***	28.50	18.90	17.85	Z-A431PJ31X

† Extra DSL convenience jack on side of wall mount plate ◆ ***RoHS Compliant***

Pulse® A TECHNITROL COMPANY

PULSEJACK™ Integrated Connector Modules Ethernet, PoE (Power over Ethernet), Gigabit, USB Options

RoHS COMPLIANT

Pulse offers a broad selection of filtered connectors. Each Pulsejack platform is designed to house a range of magnetic configurations and other internal components (common mode termination) with four 75Ω resistors and HV Cap, chip-side pin outs, shield options, USB ports and LED options.

Features:

- Meets or exceeds IEEE 802.3 and ANSI X3.263
- 1500 Vrms isolation
- Self-contained termination saves PCB space
- Patented InterLock Base construction for high reliability

Fig. 1

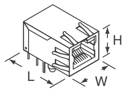

Fig. 2

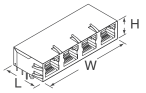

Fig. 3

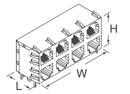

Fig. 4

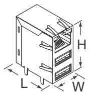

Figure Note: General representation of part, see specifications for exact number of ports.

Fig.	Number of Rows X Ports (7)	Tab Latch Up/Down (1)	Shield EMI Tabs (5)	Auto MDIX	LEDs L-R (6,8)	Other (4) Com-ponents	Comm. (15) Pins per Port (PCB Side)	Total (16) PCB Pins per Port	Configuration (2) TX	RX	Turns Ratio (3) TX	RX	Package L x W x H (mm)	Digi-Key Part No.	Price Each 1	10	50	Pulse Part No.
									10BASE-TX (17)									
1	1X1	Down	No	Yes	None	CMT	6	8	T,C	T,C	1CT:2.5	1CT:1	21.59 x 16.26 x 13.84	553-1480-ND	4.29	2.94	2.48	J00-0062NL
	1X1	Down	No	Yes	G-Y	CMT	6	12	T,C	T,C	1CT:2.5	1CT:1	21.59 x 16.26 x 13.84	553-1481-ND	4.59	3.15	2.65	J00-0063NL
	1X1	Down	Yes	Yes	G-Y	CMT	6	12	T,C	T,C	1CT:2.5	1CT:1	21.59 x 16.26 x 13.84	553-1478-ND	4.86	3.33	2.81	J00-0051NL
									10/100BASE-TX									
1	1X1	Up	Yes	Yes	G-Y	CMT (12)	7	12	T,C	T,C	1CT:1	1CT:1	25.40 x 16.10 x 13.61	553-1491-ND	7.15	5.23	4.63	J3011G21DNL
	1X1	Down	No	Yes	None	CMT (12)	7	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1484-ND	6.44	4.71	4.17	J0011D01NL
	1X1	Down	No	Yes	None	CMT (12)	8	12	T,C	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1487-ND	6.84	4.69	3.95	J0026D01NL
	1X1	Down	No	Yes	G-Y	CMT (12)	7	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1483-ND	6.64	4.86	4.30	J0011D01BNL
	1X1	Down	No	Yes	G-Y	CMT (12)	8	12	T,C	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1486-ND	6.82	4.99	4.41	J0026D01BNL
	1X1	Down	No	Yes	G-Y	CMT (12)	8	12	T,C	C,T	1CT:2.5	1CT:1	21.59 x 16.26 x 13.84	553-1490-ND	6.64	4.86	4.30	J0073D01BNL
	1X1	Down	Yes	No	G-Y	CMT (13)	8	12	T,C,S	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1349-ND	6.82	4.99	4.41	J0026D21BNL
	1X1	Down	Yes	Yes	None	— (13)	6	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1482-ND	4.50	3.08	2.60	J00-0064NL
	1X1	Down	Yes	Yes	None	CMT (12)	6	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1479-ND	4.86	3.33	2.81	J00-0061NL
	1X1	Down	Yes	Yes	None	CMT (13)	7	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1347-ND	6.66	4.56	3.84	J0011D21NL
	1X1	Down	Yes	Yes	None	CMT (12)	8	12	T,C	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1489-ND	6.84	4.69	3.95	J0026D21NL
	1X1	Down	Yes	Yes	G-G	CMT	7	12	T,C	T,C	1CT:1.414	1CT:1	21.59 x 16.26 x 13.84	553-1348-ND	6.64	4.86	4.30	J0018D21ENL
	1X1	Down	Yes	Yes	G-G	CMT (12)	8	12	T,C	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1488-ND	6.82	4.99	4.41	J0026D21ENL
	1X1	Down	Yes	Yes	G-Y	CMT (12)	7	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1485-ND	6.64	4.86	4.30	J0011D21BNL
	1X1	Down	Yes	Yes	G-Y	CMT (12)	7	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1345-ND	5.13	3.52	2.96	J00-0065NL

KEY (1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB (2) Magnetics = Chip (PHY) to Cable (Media) side: T= Transformer, C = Common Mode Choke, S = Shunt Inductor (3) Turns Ratio = Chip (PHY) to Cable (Media) side (4) CMT (Common Mode Transformer) with HV Cap within the connector; no extra PCB real estate required (5) EMI Tabs = On the outside face of the shield for connecting to a front panel (6) LEDs require external 5V source and 250Ω external resistors ("R") = 250Ω internal resistor built-in (7) Note: For example, 1X4 = 1 row/4 columns or a 2X4 = 2 rows/4 columns (8) LEDs: L-R = Left - Right : G = green, Y = yellow; "—" = none; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/A = Green/Amber, G/Y = Green/Yellow (9) Includes ESD overvoltage protection diodes (10) Provides typically 2kV voltage isolation and are compliant to IEEE 802.3af PoE standard (11) Includes Gigabit compatible magnetics (12) Built-In BST Circuit = Capacitor resistor termination circuit (13) Different electrical connection (See data sheet for more information) (14) PoE = Power over Ethernet compatible product, compliant to IEEE 802.3af standard, providing minimum 1.5kV isolation (15) Number of PCB connections required for RJ-45 connector communication to PHY/IC Chip (16) Total number of PCB pins for PCB layout, which include LED option (17) IEEE802.3i (10Base-T) standard does not require these parts to achieve 350uH minimum OCL Inductance with 8mA bias current.

(Continued)

PULSEJACK™ Integrated Connector Modules
Ethernet, PoE (Power over Ethernet), Gigabit, USB Options *(Cont.)*

Fig.	Number of Rows X Ports (7)	Tab Latch Up/Down (1)	Shield EMI Tabs (5)	Auto MDIX	LEDs L-R (6,8)	Other (4) Com-ponents	Comm. (15) Pins per Port (PCB Side)	Total (16) PCB Pins per Port	Configuration (2) TX	Configuration (2) RX	Turns Ratio (3) TX	Turns Ratio (3) RX	Package L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Pulse Part No.
1	1X1	Down	Yes	Yes	G-Y	— (13)	8	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1346-ND	6.72	4.60	3.88	J0006D21BNL
	1X1	Up	None	Yes	G-Y	CMT	8	12	T,C	T,C	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1350-ND	6.59	4.83	4.27	J1011F01PNL
	1X1	Up	Yes	No	Y-G	CMT	8	12	T,C,S	C,T	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1352-ND	7.58	5.55	4.90	J1026F21CNL
	1X1	Up	Yes	Yes	Y-G	CMT	7	12	T,C	T,C	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1351-ND	6.59	4.83	4.27	J1012F21CNL
	1X1	Up	Yes	Yes	G/O-Y	CMT (12)	6	10	T,C	T,C	1CT:1	1CT:1	25.4 x 16.66 x 13.49	553-1493-ND	7.73	5.66	5.00	JP011821UNL
10/100BASE-TX Multiport																		
2	1X2	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 31.18 x 13.61	553-1353-ND	11.49	8.41	7.44	J8064D628ANL
	1X4	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 59.12 x 13.61	553-1354-ND	20.60	15.77	13.96	J8064D648ANL
10/100BASE-TX Dual Row Multiport																		
3	2X2	Both	Yes	Yes	G/Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 31.50 x 25.52	553-1463-ND	21.71	16.62	14.71	J20-0013NL
	2X4	Both	Yes	Yes	G/Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 59.44 x 25.52	553-1464-ND	39.50	31.42	28.17	J20-0014NL
Power over Ethernet (PoE) 10/100Base-TX																		
1	1X1	Up	Yes	Yes	Y/G-G	CMT (9)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1366-ND	11.57	8.86	7.84	JK0-0020NL
	1X1	Up	Yes	Yes	Y/G-G	CMT (10)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1367-ND	8.74	6.40	5.66	JK0-0025NL
Power over Ethernet (PoE) 10/100Base-TX Multiport																		
2	1X2	Up	Yes	Yes	Y/G-G	CMT (10)	8	12	C,T	C,T	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1361-ND	15.11	11.57	10.24	JG0-0031NL
	1X4	Up	Yes	Yes	Y/G-G	CMT (10)	8	12	C,T	C,T	1CT:1	1CT:1	25.41 x 59.13 x 13.60	553-1362-ND	27.49	21.87	19.61	JG0-0032NL
Gigabit (10/100/1000BASE-TX)																		
1	1X1	Up	Yes	Yes	G-G	Gigabit (11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1363-ND	8.74	6.40	5.66	JK0-0014NL
	1X1	Up	Yes	Yes	Y/G-G	Gigabit (11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1364-ND	8.74	6.40	5.66	JK0-0016NL
	1X1	Up	Yes	Yes	None	Gigabit (11)	12	12	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1365-ND	8.43	6.17	5.46	JK0-0017NL
	1X1	Up	Yes	Yes	None	Gigabit (11,14)	12	14	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1470-ND	8.74	6.40	5.66	JK0-0133NL
Gigabit (10/100/1000BASE-T) Multiport																		
2	1X2	Up	Yes	Yes	G-G	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1357-ND	15.11	11.57	10.24	JG0-0023NL
	1X2	Up	Yes	Yes	G-G (13)	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1492-ND	15.11	11.57	10.24	JG0-0024NL
	1X2	Up	Yes	Yes	G/Y-G	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 31.46 x 13.84	553-1469-ND	15.56	11.92	10.55	JG0-0129NL
	1X4	Up	Yes	Yes	G-G	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 59.39 x 13.84	553-1358-ND	27.49	21.87	19.61	JG0-0025NL
	1X4	Up	Yes	Yes	G/A-G/A	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 59.39 x 13.84	553-1468-ND	27.49	21.87	19.61	JG0-0098NL
	1X6	Up	Yes	Yes	G-G	Gigabit (11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 87.33 x 13.84	553-1359-ND	41.22	32.80	29.40	JG0-0027NL
Gigabit (10/100/1000BASE-T) Dual Row Multiport																		
3	2X1	Both	Yes	Yes	G/Y-G/Y	Gigabit (11)	10	12	Gigabit	Gigabit	1CT:1	1CT:1	31.65 x 17.53 x 25.52	553-1465-ND	16.97	12.99	11.50	JC0-0063NL
Combo 10/100BASE-TX / Dual USB 2.0 Type A Female Ports																		
4	1X1 w/2USB	Up	None	No	G-Y (6(R))	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	27.69 x 19.08 x 31.45	553-1369-ND	9.37	6.86	6.06	JW0-0009NL
	1X1 w/2USB	Up	None	Yes	G/Y-G	Gigabit	—	—	Gigabit	Gigabit	1CT:1	1CT:1	27.43 x 18.82 x 31.00	553-1368-ND	11.59	8.48	7.50	JW0-0006NL
	1X1 w/2USB	Up	Yes	No	G/O-Y	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	26.09 x 17.09 x 29.72	553-1370-ND	10.40	7.61	6.73	JY0-0016NL

KEY (1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB (2) Magnetics = Chip (PHY) to Cable (Media) side: T= Transformer, C = Common Mode Choke, S = Shunt Inductor (3) Turns Ratio = Chip (PHY) to Cable (Media) side (4) CMT (Common Mode Transformer) with HV Cap within the connector; no extra PCB real estate required (5) EMI Tabs = On the outside face of the shield for connecting to a front panel (6) LEDs require external 5V source and 250Ω external resistors ("R") = 250Ω internal resistor built-in (7) Note: For example, 1X4 = 1 row/4 columns or a 2X4 = 2 rows/4 columns (8) LEDs: L-R = Left - Right : G = green, Y = yellow; "—" = none; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/A = Green/Amber, G/Y = Green/Yellow (9) Includes ESD overvoltage protection diodes (10) Provides typically 2kV voltage isolation and are compliant to IEEE 802.3af PoE standard (11) Includes Gigabit compatible magnetics (12) Built-In BST Circuit = Capacitor resistor termination circuit (13) Different electrical connection (See data sheet for more information) (14) PoE = Power over Ethernet compatible product, compliant to IEEE 802.3af standard, providing minimum 1.5kV isolation (15) Number of PCB connections required for RJ-45 connector communication to PHY/IC Chip (16) Total number of PCB pins for PCB layout, which include LED option (17) IEEE802.3i (10Base-T) standard does not require these parts to achieve 350uH minimum OCL Inductance with 8mA bias current.

Midcom WÜRTH ELEKTRONIK

WE-LAN Series — RJ45 Connectors with Integrated 10/100 Base Tx Magnetics

Features:
- RJ45 connector with Integrated Transformer/Common Mode Choke
- Inductance: 350µH OCL with 8mA bias
- Complies with IEEE 802.3
- Extended temperature range: -40°C ~ 85°C

Applications:
- ADSL Modems
- Embedded PC
- LAN Network applications
- Hub
- Router
- Switches

Fig. 1

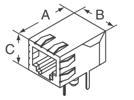

Fig. 2

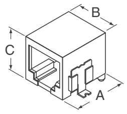

Fig. 3

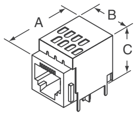

Fig. 4

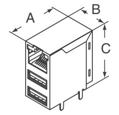

Fig.	Description	Configuration	Operating Temperature (°C)	Dimensions - mm A	Dimensions - mm B	Dimensions - mm C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Würth Part No.
1	With Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.36	732-1649-ND†	9.66	8.05	7.13	7499011002
	Yellow and Green LED	1x1 Through Hole	0 ~ 70	25.30	16.20	13.50	732-1650-ND	9.66	8.05	7.13	7499010121
	Yellow and Green LED with Shielding Tabs	1x1 Through Hole	-40 ~ 85	21.84	15.88	13.36	732-1654-ND†	16.80	14.00	12.40	7499211121
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.74	732-1859-ND†	10.50	8.75	7.75	74990110013
	Yellow and Green LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.74	732-1860-ND	10.92	9.10	8.06	74990111215
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.74	732-1861-ND†	13.02	10.85	9.61	7499211003
	Yellow and Green LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.74	732-1862-ND†	13.86	11.55	10.23	7499211123
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.76	13.66	732-1863-ND†	15.54	12.95	11.47	7499411001
	Yellow and Green LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	32.60	16.60	13.66	732-1864-ND†	16.80	14.00	12.40	7499411122
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.87	13.87	732-1865-ND†	13.86	11.55	10.23	7499111005
	Green/Orange/Yellow LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.87	13.87	732-1866-ND†	14.49	12.08	10.70	7499111614
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	17.00	13.87	732-1867-ND†	16.80	14.00	12.40	7499311001
	Green/Orange/Yellow LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.76	13.66	732-1868-ND†	17.64	14.70	13.02	7499311611
	With Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.76	13.66	732-1869-ND†	19.74	16.45	14.57	7499511001
	Green/Orange/Yellow LED with Shielding Tabs	1x1 Through Hole	0 ~ 70	33.02	16.76	13.66	732-1870-ND†	20.58	17.15	15.19	7499511611
2	With Shielding Tabs	1x1 SMD	0 ~ 70	21.60	15.88	13.55	732-1646-ND	10.50	8.75	7.75	7498011002
	Yellow and Green LED with Shielding Tabs	1x1 SMD	0 ~ 70	21.60	15.88	13.55	732-1647-ND	10.50	8.75	7.75	7498011121
	Yellow and Green LED	1x1 SMD	-40 ~ 85	21.84	15.65	11.30	732-1648-ND	10.50	8.75	7.75	7498011122
3	Vertical Yellow and Green LED	1x1 Through Hole	0 ~ 70	21.84	15.95	16.90	732-1651-ND	9.66	8.05	7.13	7499010122
4	Yellow and Green LED with 2 USB	1x1 Through Hole	0 ~ 70	27.68	19.08	31.45	732-1655-ND	14.28	11.90	10.54	7497010211

† See Digi-Key website for tab direction

HIROSE ELECTRIC CO., LTD.

Fiber Optics
Adapters - Split Sleeve

Dimensions in mm

Fig. 1
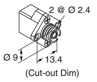

Fig. 2
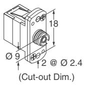

Fig. 3
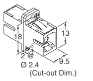

Fig. 4
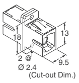

Fig. 5
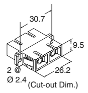

Fig. 6
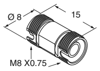

Fig. 7
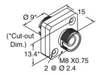

Fig.	Description	External Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Hybrid SC/FC, Angled	—	H11437-ND	12.80	12.05	10.92	HSCJ-HRFCJ-B(40)
2	SC Hybrid SC/FC, Straight	—	H11438-ND	16.95	16.39	15.26	HSCJ-HRFCJ-C(40)
3	Panel Mount, Die Cast, Zirconia	—	H2495-ND	10.36	9.59	8.60	HSC-A2-D1
4	Panel Mount, Plastic, Zirconia	Blue	H2496-ND	6.61	5.48	4.56	HSC-A3-D1(02)
5	F-type, Zirconia	Blue	H2497-ND	9.20	8.00	7.20	HSCF-2A-D(P)
6	Non-Flange, Copper Alloy	—	H11439-ND	11.86	10.98	9.85	HRFC-A2-SF(41)
7	Cost-Effective, Copper Alloy	—	H11440-ND	10.70	9.30	8.37	HRFC-PA11-G1(40)

MU Connectors and Adapters

Dimensions in mm

Fig. 1
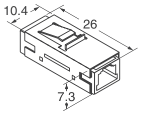

Fig. 2
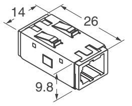

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Simplex Patch Panel Mount Adapter	H2502-ND◆	10.56	9.18	8.27	HMUA-A-3
2	Duplex Patch Panel Mount Adapter	H2503-ND	15.35	14.45	13.10	HMUA-2A-3

◆ *RoHS Compliant*

Ferrule

Dimensions in mm

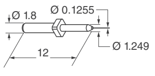

Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
H2515-ND	7.54	6.38	5.37	HMUA-F3-A1255

OMRON

Optical Communication Devices

Omron has achieved the worlds smallest optical device by combining Omron's Micro Lens Array with thin film filters in a proprietary structure. This minimizes costs by reducing the number of internal parts. Omron's optical switches (1 x 2 and 2 x 2) use a low power consumption with a latching function. The numbers of components are reduced using a complex prism and are able to accommodate SC type fiber optic connectors. Applications include fault response, maintenance, (OXC) Optical Cross Connect Circuit, (OADM) Optical Add/Drop Multiplex Circuit. Omron's 4 channel and 8 channel Mux and Demux devices are SC connector compatible for transceiver and transponder applications. Using Omron's proprietary Micro Lens Array structure makes these the worlds smallest and most cost effective Mux/Demuxs available. Use for CWDM, LX4, B-PON, E-PON, G-PON and (OADM) Optical Add/Drop Multiplex Circuit.

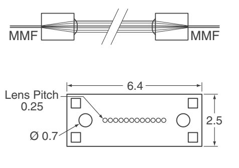

Dimensions in mm

Description	Digi-Key Part No.	Price Each	Omron Part No.
Focuser Flat Lens Array, 1 x 12, V~L= 0.3mm, L~F=0.3mm	Z2216-ND	63.90	P1L12A-F1
Right Angle Focuser Flat Lens Array, 1 x 12, V~L=0.3mm, L~F=0.5mm	Z2219-ND	95.85	P1L12C-F1
Right Angle Focuser Flat Lens Array, 1 x 12, F~L=0.3mm	Z2218-ND	95.85	P1L12C-F2

Technology to Inspire Innovation JAE

Cleanable Adapters

Features: • Optical and environmental performance equivalent to LC type adapter • Easy, one hand separation of front and rear housing is possible by holding top and bottom of the front housing

Dimensions in mm

Fig. 1
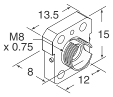

Fig. 2
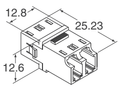

Fig. 3
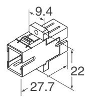

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	Rear Connector	670-1224-ND	16.58	11.80	10.69	FO-FC-RS-A2-R
	Rear Connector	670-1225-ND	16.61	11.81	10.71	FO-FC-RS-A-R
2	DBL LC Duplex Ph-Brnz	670-1515-ND	18.54	13.19	11.95	FO-EX-2LCBD1
3	SC Simplex Ph-Brnz Blue	670-1516-ND	11.50	7.59	6.90	FO-EX-SCAD1-001

ASSMANN Electronics

NEW! Fiber Optic Cable Assemblies

• Connector with ceramic ferrule • Multimode • Duplex • Halogen free cable • 62.5/125µm fiber • Fiber class OM 1 • Cable diameter 3 mm • Two color boot • Cable color orange • Single packed, with test report • Up to 1 Gbit Ethernet

Fig. 1
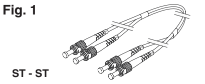

Fig. 2
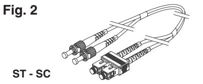

Fig. 3
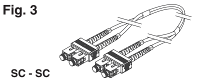

Fig. 4
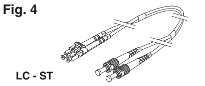

Fig. 5
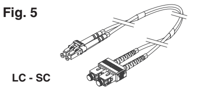

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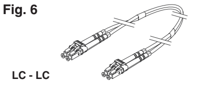

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
1	Fiber Optic Cable, Dual ST-ST 1M	AE10427-ND	14.41	13.33	12.61	DK-2611-01
	Fiber Optic Cable, Dual ST-ST 2M	AE10428-ND	13.33	12.55	12.20	DK-2611-02
	Fiber Optic Cable, Dual ST-ST 3M	AE10429-ND	14.41	13.57	13.19	DK-2611-03
	Fiber Optic Cable, Dual ST-ST 5M	AE10430-ND	16.58	15.61	15.17	DK-2611-05
	Fiber Optic Cable, Dual ST-ST 7M	AE10431-ND	16.55	16.00	15.45	DK-2611-07
	Fiber Optic Cable, Dual ST-ST 10M	AE10432-ND	18.48	17.87	17.25	DK-2611-10
2	Fiber Optic Cable, Dual ST-SC 1M	AE10433-ND	14.41	13.33	12.61	DK-2612-01
	Fiber Optic Cable, Dual ST-SC 2M	AE10434-ND	13.33	12.55	12.20	DK-2612-02
	Fiber Optic Cable, Dual ST-SC 3M	AE10435-ND	14.41	13.57	13.19	DK-2612-03
	Fiber Optic Cable, Dual ST-SC 5M	AE10436-ND	16.58	15.61	15.17	DK-2612-05
	Fiber Optic Cable, Dual ST-SC 7M	AE10437-ND	16.55	16.00	15.45	DK-2612-07
	Fiber Optic Cable, Dual ST-SC 10M	AE10438-ND	19.42	18.78	18.13	DK-2612-10
3	Fiber Optic Cable, Dual SC-SC 1M	AE10439-ND	14.41	13.33	12.61	DK-2622-01
	Fiber Optic Cable, Dual SC-SC 2M	AE10440-ND	13.33	12.55	12.20	DK-2622-02
	Fiber Optic Cable, Dual SC-SC 3M	AE10441-ND	14.41	13.57	13.19	DK-2622-03
	Fiber Optic Cable, Dual SC-SC 5M	AE10442-ND	16.58	15.61	15.17	DK-2622-05
	Fiber Optic Cable, Dual SC-SC 7M	AE10443-ND	16.55	16.00	15.45	DK-2622-07
	Fiber Optic Cable, Dual SC-SC 10M	AE10444-ND	19.42	18.78	18.13	DK-2622-10
4	Fiber Optic Cable, Dual LC-ST 1M	AE10445-ND	15.17	14.28	13.88	DK-2631-01
	Fiber Optic Cable, Dual LC-ST 2M	AE10446-ND	16.25	15.30	14.87	DK-2631-02
	Fiber Optic Cable, Dual LC-ST 3M	AE10447-ND	15.30	14.79	14.28	DK-2631-03
	Fiber Optic Cable, Dual LC-ST 5M	AE10448-ND	16.38	15.84	15.29	DK-2631-05
	Fiber Optic Cable, Dual LC-ST 7M	AE10449-ND	19.13	18.49	17.86	DK-2631-07
	Fiber Optic Cable, Dual LC-ST 10M	AE10450-ND	22.00	21.27	20.54	DK-2631-10
	Fiber Optic Cable, Dual LC-ST 15M	AE10451-ND	25.49	24.64	23.79	DK-2631-15
5	Fiber Optic Cable, Dual LC-SC 1M	AE10452-ND	15.17	14.28	13.88	DK-2632-01
	Fiber Optic Cable, Dual LC-SC 2M	AE10453-ND	16.25	15.30	14.87	DK-2632-02
	Fiber Optic Cable, Dual LC-SC 3M	AE10454-ND	15.30	14.79	14.28	DK-2632-03
	Fiber Optic Cable, Dual LC-SC 5M	AE10455-ND	17.21	16.64	16.07	DK-2632-05
	Fiber Optic Cable, Dual LC-SC 7M	AE10456-ND	19.13	18.49	17.86	DK-2632-07
	Fiber Optic Cable, Dual LC-SC 10M	AE10457-ND	22.00	21.27	20.54	DK-2632-10
	Fiber Optic Cable, Dual LC-SC 15M	AE10458-ND	26.79	25.90	25.00	DK-2632-15
6	Fiber Optic Cable, Dual LC-LC 1M	AE10459-ND	15.96	15.43	14.90	DK-2633-01
	Fiber Optic Cable, Dual LC-LC 2M	AE10460-ND	16.92	16.36	15.80	DK-2633-02
	Fiber Optic Cable, Dual LC-LC 3M	AE10461-ND	17.88	17.28	16.69	DK-2633-03
	Fiber Optic Cable, Dual LC-LC 5M	AE10462-ND	19.79	19.14	18.48	DK-2633-05
	Fiber Optic Cable, Dual LC-LC 7M	AE10463-ND	21.71	20.99	20.26	DK-2633-07
	Fiber Optic Cable, Dual LC-LC 10M	AE10464-ND	24.58	23.76	22.94	DK-2633-10
	Fiber Optic Cable, Dual LC-LC 15M	AE10465-ND	29.36	28.39	27.41	DK-2633-15

Tyco Electronics
Authorized Distributor

AMP Fiber Optics
OPTIMATE® DNP
(Dry Non-Polish) Connectors

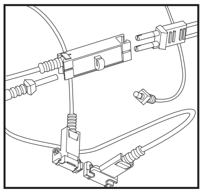

Optical Characteristics:
• Insertion Loss: 2dB • Ref.: FOTP 34 Method C

Environmental Characteristics:
• Temperature Range: -40°C ~ 60°C

Mechanical Characteristics:
• Insertion Force: 13.34N [3 lb.] (plug to receptacle) • Cable retention plug: 8.89N [12 lb.]

Materials: • Retention Clip: Copper alloy, plated • Splice: Copper alloy, plated • Connectors: Thermoplastic

Dimensions in mm

Fig. 1
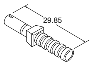

Fig. 2
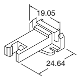

Fig. 3
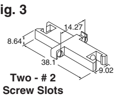

Fig. 4
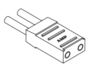

Fig. 5
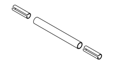

Fig.	Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	Single Position Plug Assembly	A1703-ND◆	.86	16.76	228087-1
2	Single Position Device Mounts	A1705-ND◆	.88	19.04	228043-1
3	Single Position Bulkhead Receptacle	A1707-ND◆	1.54	33.41	228042-1
4	Dual Position Plug Assembly	A20128-ND◆	2.18	47.25	228088-1
5	Plastic Fiber Splice and Retention Clip	A20131-ND◆	.48	8.56	228046-1

Description	Digi-Key Part No.	Pricing 1	5	AMP Part No.
Hot Knife, Plastic Fiber	A99100-ND	63.35	271.50	228085-1
Single Position Plastic Cutting Fixture	A99102-ND◆	87.01	372.90	228837-1

◆ *RoHS Compliant*

Digi-Key Part No.	Note: X in Part No. = Meter Per Roll FIBER OPTIC CABLE (O.D. = .089) Price (Meter) 5	10	15	25	50	100
A1700-X-ND	13.83	25.68	37.34	59.27	98.79	177.82

AMP Fiber Optic Connectors and Accessories

LightCrimp PLUS Connectors

No Epoxy / No Polish (NENP)

Features:
- Epoxyless • Pre-Polished • Mates with standard couplers, adapters and adapter plates
- Meets TIA/EIA 568-B.3 • Temperature Range: -10°C ~ 60°C (Tested to -40°C ~ 75°C)

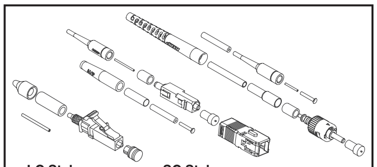
LC Style (Simplex Shown)   SC Style (Simplex Shown)   ST Style

Connector Type	Fiber Size (µm)	Mode Type	Strain Relief Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LC Style							
Simplex	—	Single	Blue	A36314-ND	26.48	23.54	6754482-1
	62.5/125	Multi	Beige	A36316-ND	20.48	18.20	6754483-1
	10 Gig 50/125	Multi	Aqua	A99601-ND	20.48	18.20	6754483-4
Duplex	10 Gig 50/125	Multi	Aqua	A99600-ND	40.93	36.38	6754485-4
SC Style							
Simplex	—	Single	Blue	A36319-ND	26.48	23.54	6693276-1
	62.5/125	Multi	Beige	A36321-ND	16.85	14.98	5492643-1
Duplex	62.5/125	Multi	Beige	A36323-ND	33.71	29.96	6278009-1
ST Style							
ST	—	Single	Black	A97948-ND	26.48	23.54	1828953-3
	50/125	Multi	Black	A36324-ND	15.66	13.92	6278082-1

LightCrimp PLUS Kits, Tools and Accessories

Description	Digi-Key Part No.	Price Each	AMP Part No.
LightCrimp PLUS Termination Kits			
Universal (LC, SC and ST)	A99122-ND	1504.59	1278118-4
Universal (LC, SC and ST) (Includes Microscope)	A36344-ND	1756.32	1278118-5
LC (Includes Microscope)	A36346-ND	1703.07	1754845-2
ST (Includes Microscope)	A36347-ND	1778.00	492697-2
Upgrade LC	A36348-ND	94.34	1754847-2
Upgrade ST	A36350-ND	136.67	1754847-4
MT-RJ Jack (Includes Microscope)	A99574-ND	1642.55	1278346-2
Boot for MT-RJ Jack, Beige	A99580-ND	1.53	6374208-5
Cable Test Kit			
SC-RJ 50/125µm	A99578-ND	232.71	1278861-1
SC-RJ 62.5/125µm	A99579-ND	232.71	1278862-1
Cable/Buffer Holder			
LightCrimp PLUS LC	A36355-ND	8.19	1754138-1
LightCrimp PLUS SC	A36363-ND	8.19	1278023-1
Other Die Sets and Hand Tools			
Termination Handle	A99135-ND	130.01	2064431-1
LC Type, Use with 2064431-1 Hand Tool	A36353-ND	252.24	1588175-1
LightCrimp PLUS LC, Use with 2064431-1 Hand Tool	A36354-ND	125.78	1754136-1
LightCrimp PLUS SC, Use with 2064431-1 Hand Tool	A36361-ND	222.20	492783-1
Kevlar Shears	A36351-ND	34.07	1278637-1
Strip Tool, Fiber Combination	A36352-ND	103.28	1278947-1
Micro-Strip Stripper with .008 Red Blades	A98550-ND	95.51	492109-2
Hand Held Precision Cleaver	A36360-ND	781.88	1871696-1
Cable Stripper, Optimate	A36362-ND	40.25	501198-1

LightCrimp XTC Connectors

No Epoxy / Polish (NEP)

Features:
- Epoxyless • Singlemode or multimode
- Just crimp it on the fiber • 2-minute termination • Pre-radiused PC finish
- Body Material: Epoxyless aluminum; Epoxy polymer • Coupling Nut Material: Multimode epoxyless polymer; Singlemode epoxyless die cast; Epoxy - die cast zinc • Storage Temperature Range: -40°C ~ 85°C

ST Style   SC Style

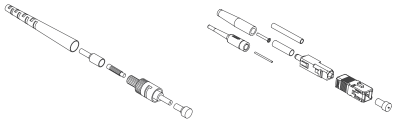

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Average	Operating Temperature Range (°C)	Durability Cycles, <.20 (dB) Change	Digi-Key Part No.	Price Each 1	10	AMP Part No.
ST Style Connectors									
125	Multi	Plastic	0.4	-40 ~ 65	500	A32610-ND	8.42	7.48	5492168-1
125	Multi	Stainless Steel	0.4	-10 ~ 65	500	A32611-ND	13.55	12.04	5504034-1
125	Single	Ceramic	0.2	-40 ~ 65	500	A97945-ND	32.85	29.20	5504000-1
125	Multi	Ceramic	0.4	-40 ~ 65	1000	A33708-ND	16.43	14.60	5504001-1
SC Style Simplex Connectors									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97946-ND	18.95	16.84	5503692-1
SC Style Duplex Connectors									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97947-ND	39.47	35.08	5503693-1

LightCrimp XTC Kits and Accessories

Polishing (Lapping) Film Packets:

Polishing film sheets are used with polishing bushings for hand polishing of fiber optic connectors. Most part numbers consist of a packet of ten 8.5" x 11.0" (21.59cm x 27.94cm) sheets. Each packet will polish between 60 and 80 connectors.

Description	Digi-Key Part No.	Price Each	AMP Part No.
Polishing (Lapping) Film Sheets			
5µm, Light Gray, (multiples of 10 sheets)	A20221-ND	17.50	228433-8
1µm, Green, (multiples of 10 sheets)	A20222-ND	17.50	228433-7
0.3µm, White, (multiples of 10 sheets)	A20223-ND	17.50	228433-5

SC Connectors

Epoxy / Polish

Features:
- Fastest Assembly
- Field installable
- Anaerobic epoxy compatible
- For 125µm cladding diameter
- Insertion Loss: <0.2dB Typical

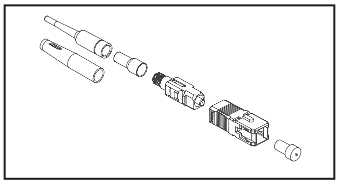

Mode Type	Housing Color	Durability Cycles	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Single	Blue	200	A36327-ND	6.66	5.92	5504646-7
Multi	Beige	500	A36326-ND	5.83	5.18	5503948-5

AMP Fiber Optic Adapters, Cable Assembly, and Accessories

SC and LC Coupling Adapters

Features: • Suitable for any SC and LC Type connector • Choice of housing colors • Metal Alignment Sleeve

Description	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
SC Coupling Adapters					
SC Simplex Adapter	Blue	A33714-ND	3.15	2.80	5502632-8
SC Duplex Adapter	Blue	A31777-ND	7.67	6.82	5502776-8
LC Coupling Adapters					
LC Duplex Adapter	Blue	A97951-ND*	7.34	6.52	6457567-4
LC Duplex Adapter	Beige	A97952-ND*	7.34	6.52	6457567-5
LC Quad Adapter	Blue	A97953-ND*	18.29	16.26	1695790-4
LC Quad Adapter	Beige	A97954-ND*	15.93	14.16	1695790-5

*All parts are flanged but flangeless versions are available

(SC Duplex Shown)

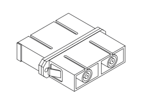

Hybrid Adapters

Features: • Use for Multimode or Singlemode • Available with mounting screws • Adapt various connector interfaces • Metal alignment sleeve

Description	Housing Material	Housing Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Simplex Style						
SC to ST	Nickel Plated	Die Cast	A34377-ND	10.35	9.20	5503638-1
SC to FC	Plastic	Black	A34376-ND	3.15	2.80	5502781-1
SC to FC	Plastic	Beige	A97955-ND	3.15	2.80	5502781-3
SC to FC	Nickel Plated	Die Cast	A33716-ND	10.35	9.20	5503480-1
Duplex Style						
SC to ST	Plastic	Black	A33717-ND	5.92	5.26	5503137-1
SC to ST	Plastic	Blue	A33718-ND	5.92	5.26	5503137-2

(Simplex Shown)

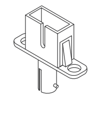

ST Style Adapters

Free-Hanging or Panel Mount Design

Mode Type	Sleeve Material	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Multi	Composite	A20109-ND	2.12	1.88	501381-1
Single or Multi	Metal	A20110-ND	2.30	2.04	504021-1
Single or Multi	Ceramic	A20111-ND	5.06	4.50	502750-1

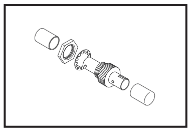

Singlemode Fiber Optic Attenuators

Singlemode High Performance Attenuators utilize unique all fiber mechanisms to increase the loss of an optical signal. These designs minimize reflectance. High Performance Attenuators use no filters, air-gaps, or core mismatches.

Specifications:
- **Fixed Attenuation Values:** 3 - 20dB • **Reflectance:** ≤-45dB, -50, -55 and -60dB • **Operating Temperature:** -40°C ~ 75°C • **Vibration Resistance:** ≤0.1 x attenuation

Attenuation (dB)	Digi-Key Part No.	Price Each	AMP Part No.
SC Dual Window Attenuators			
10	A34368-ND	57.11	1-5209943-0
15	A34369-ND	57.11	1-5209943-5

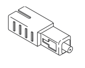
SC Style

(Continued)

AMP Fiber Optic Adapters, Cable Assembly, and Accessories *(Cont.)*

Fiber Optic Multimode Switches

Low Profile Fiber Optic Switches are miniature, board mountable devices that permit the switching of an optical signal from one fiber to another.

Switching is accomplished by a slight pivoting motion of a spherical mirror which reflects the optical signal to the appropriate fiber.

This patented imaging technology provides very low optical loss.

Fiber Optic Switches can be terminated with any fiber optic connector.

Specifications:

• **Switching Speed:** 5msec Typical • **Operating wavelength:** 750-1450nm • **Insertion loss at 1300nm:** 0.5dB Typical, 0.8dB Maximum per FOTP-34 • **Crosstalk:** -45dB Typical per FOTP-42 • **Switch Driver:** 5V at 80mA Maximum, 12V option available • **Fiber Type:** Graded Index 62.5/125 • **Lead Length:** 1 meter • **Operating Temperature Range:** -10°C ~ 65°C per FOTP-3, C2 • **Connector Style:** ST Style • **Durability:** >1 million cycles

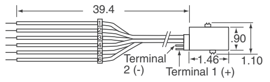

Switch	Fiber Leads Used
1 x 2 SPDT	1, 2, 3
Dual 1 x 2 DPDT	1, 2, 3, 4, 5, 6

Switch Type	Circuit	Electrical Interface	Fiber Connector	Digi-Key Part No.	Price Each	AMP Part No.
1 x 2	SPDT	Straight Pin	ST Style	A34593-ND	394.80	5099427-2
Dual 1 x 2	DPDT	Straight Pin	ST Style	A99856-ND	394.80	5099982-2

ST Style Active Device Mounts

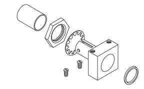

Designed to accept multimode TO-18, TO-46 and TO-52 active devices • Nickel plated, die cast zinc • Mount to PCB or through panel • Includes positioning ring

Description	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Standard Height	A33713-ND	8.57	7.62	5501474-1
Low Profile	A32709-ND	6.39	5.68	5502585-2

Tools and Accessories

Microscope Kit: This hand held microscope incorporates high quality glass optics and dual illumination lighting for unsurpassed 200X magnification

Each Kit Includes: • 10-power objective microscope with an impact resistant ergonomic rubber shell and high quality glass optics • 20-power eyepiece • Padded carrying case with an integrated belt loop and internal adapter storage pocket • Neck lanyard with safety breakaway feature • Universal 2.5mm ferrule adapter (for SC, ST and FC)

Description	Digi-Key Part No.	Price Each	AMP Part No.
Microscope Kit and Adapters			
Microscope Inspection Kit for SC, ST and FC	A36357-ND	212.21	1754767-1
Universal 1.25mm Adapter for LC and MU	A98551-ND	60.64	1754765-1
Universal 2.5mm Adapter for SC, ST and FC	A36356-ND	33.74	1754766-1
Adapter for MT-RJ	A36358-ND	33.74	1754768-1
Dry Cloth Cleaners			
Reel Cleaner, One Slot; 1.25mm, 2.5mm, MT No Pins	A36366-ND	168.75	1918803-1
Reel Cleaner, Two Slot; 1.25mm and 2.5mm	A36367-ND	168.75	1918805-1
Stick Cleaner; 2.5mm	A36368-ND	405.00	1918807-1
Stick Cleaner; 1.25mm	A36369-ND	405.00	1918808-1
MTP/MPO IBC Cleaner	A36370-ND	213.75	1918809-1
Fiber Connector Card Cleaner	A36371-ND	52.50	1918810-1
Fiber Connector Card Cleaner Refill (10 per pack)	A36372-ND	450.00	1918811-1

Fiber Optic Cable Assemblies

Features: • 50/125 and 62.5/125 Micron Fiber Sizes • Orange

Fig. 1 — ST-ST Zip Style Cable Duplex Connector

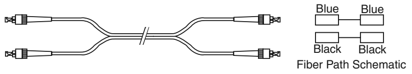

Fig. 2 — SC-SC Zip Style Cable Duplex Connector

Fig. 3 — SC-ST Zip Style Cable Duplex Connector

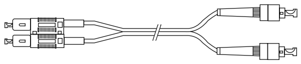

Fig. 4 — SC-LC Zip Style Cable Duplex Connector

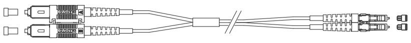

Fig. 5 — LC-LC Zip Style Cable Duplex Connector

Fig. 6 — LC-LC Riser Rated Cable Simplex Connector

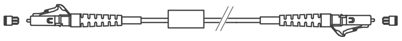

Fig. 7 — SC-SC Riser Rated Cable Simplex Connector

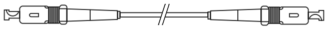

Fig.	Length (Meter)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
50/125µm Micron Fiber Size, Multimode					
1	3	A36342-ND*	43.47	38.64	6278207-3
	5	A36343-ND*	48.17	42.82	6278207-5
2	5	A36339-ND*	48.96	43.52	6278016-5
4	3	A36330-ND*	44.60	39.64	6374613-3
	5	A36331-ND*	48.35	42.98	6374613-5
10Gig, 50/125µm					
5	3	A36335-ND*	56.86	50.54	6828317-3
	5	A36336-ND*	61.56	54.72	6828317-5
62/125µm Micron Fiber Size, Multimode					
1	1	A11BBC-0201E-ND*	26.80	23.82	5503995-1
	2	A11BBC-0202E-ND*	29.14	25.90	5503995-2
	2	A11BBP-0202E-ND†	24.26	21.56	5503994-2
	3	A11BBC-0203E-ND*	31.50	28.00	5503995-3
	3	A11BBP-0203E-ND†	26.10	23.20	5503994-3
	5	A11BBC-0205E-ND*	36.18	32.16	5503995-4
	5	A11BBP-0205E-ND†	29.25	26.00	5503994-4
	10	A11BBC-0210E-ND*	47.93	42.60	5503995-5
	10	A11BBP-0210E-ND†	36.97	32.86	5503994-5
2	1	A11DDC-0201E-ND*	35.66	31.70	5504971-1
	2	A11DDC-0202E-ND*	37.28	33.14	5504971-2
	3	A11DDC-0203E-ND*	38.90	34.58	5504971-3
	3	A36338-ND*	45.23	40.20	6278016-3
	3	A36340-ND*	47.39	42.12	6374039-3
	5	A11DDC-0205E-ND*	44.62	39.66	5504971-4
	5	A36341-ND*	62.53	55.58	6374039-5
	10	A11DDC-0210E-ND*	53.17	47.26	5504971-5
3	1	A11DBC-0201E-ND*	37.15	33.02	5504958-1
3	2	A11DBC-0202E-ND	38.27	34.02	5504958-2
	5	A11DBC-0205E-ND*	44.66	39.70	5504958-4
	10	A11DBC-0210E-ND*	53.82	47.84	5504958-5
4	3	A36332-ND*	44.60	39.64	6374615-3
	5	A36333-ND*	48.35	42.98	6374615-5
Singlemode					
6	3	A36334-ND*	18.99	16.88	6374110-3
	3	A36337-ND*	31.66	28.14	6828887-3
7	1	A11DDC-0101C-ND*	27.70	24.62	5504970-1
	2	A11DDC-0102C-ND*	16.99	15.10	5504970-2
	3	A11DDC-0103C-ND*	18.07	16.06	5504970-3
	5	A11DDC-0105C-ND*	20.27	18.02	5504970-4
	10	A11DDC-0110C-ND*	25.79	22.92	5504970-5

* Ceramic † Polymer Composite

ST Connectors

Epoxy / Polish

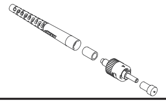

Features: • Pre-Polished • Mates with standard couplers, adapters and adapter plates • Temperature Range: -10°C ~ 60°C • Meets TIA/EIA 568-B.3

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Average	Operating Temp. Range (°C)	Durability Cycles, <.20 (dB) Change	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
125	Multi	Ceramic	0.4	-20 ~ 75	1000	A33709-ND	5.56	4.94	5501380-1
	Multi	Stainless Steel	0.3	-20 ~ 75	500	A33710-ND	10.82	9.62	5504008-3
	Multi	Ceramic	0.4	-20 ~ 75	1000	A20105-ND	3.33	2.96	503571-1
	Multi	Composite	0.3	-20 ~ 75	5000	A33712-ND	4.55	4.04	5503415-1
	Single	Zircon/Ceramic	0.3	-20 ~ 75	5000	A35056-ND	5.60	4.98	5502579-2
126	Single	Ceramic	0.3	-20 ~ 75	200	A36325-ND	5.94	5.28	5502580-2
140	Multi	Stainless Steel	0.3	-30 ~ 75	500	A33711-ND	10.82	9.62	5504008-7

LC Connectors

Epoxy / Polish

Features:

- Insertion Loss: 19183xx-x: 0.2dB Typical
- Durability Cycles: 500
- Operating Temperature: -40°C ~ 75°C

Fig. 1

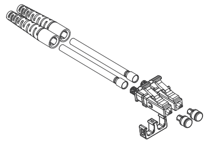

Fig. 2

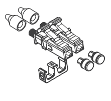

Fig.	Strain Relief Color	Description	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
1	Beige	Multimode, Duplex, 900µm	A98552-ND	9.09	8.08	1918388-1
	Aqua	Multimode, Duplex, 10Gig, 50µm	A99602-ND	8.46	7.52	1918373-3
	Blue	Singlemode, Duplex, 1.6~2.0mm	A97949-ND	8.78	7.80	1918372-1
2	Blue	Singlemode, Duplex, 900µm	A97950-ND	9.81	8.72	1918387-1

(Continued)

AMP Fiber Optic Adapters, Cable Assembly, and Accessories *(Cont.)*

FSMA Connectors

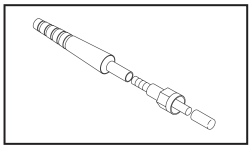

Features:

• Industry compatible with 905 and 906 style connectors • Design parameters conform to NATO and IEC interface standards • Ferrule Material: Stainless steel • Connector Body Material: Nickel-Plated brass

Performance Characteristics:

• Insertion Loss: 1.5dB Typical • Temperature Range: -55°C ~ 105°C • Durability: 200 mating cycles

Description	Fiber Size (µm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
FSMA Conn. (905)	125	A33720-ND	11.27	10.02	5504566-1
FSMA Conn. (906)	125	A36218-ND	13.37	11.88	5504014-1
FSMA Conn. (905)	140	A33721-ND	11.27	10.02	5504566-2
FSMA Conn. (905)	1000	A33722-ND	11.27	10.02	3-5504566-0

SC, ST, LC and FSMA Kits, Tools and Accessories

Termination Kits:

For AMP FSMA, and SC Style: Termination kits provide all the materials and tools (except epoxy) required to terminate a particular type of fiber optic connector. Tools are conveniently packaged in a handy carrying case. The kits contain polishing materials for approximately 60 connectors. The consumable items in the kit can be purchased separately.

Consumables Kits:

Contains all consumable supplies for at least 100 connectors. Epoxy (general purpose), polish film, epoxy applicators and polish pad. **Features:** • Pre-centered adapter mount provides quick, easy focusing, and changing of connectors • Kg-3 infrared filter to protect the user • Durable, lightweight A.B.S. plastic microscope body • Lockable, high density polyethylene, double-well carrying case with antistatic foam cut-outs

Description	Digi-Key Part No.	Price Each	AMP Part No.
Epoxy Type Termination Kits (Epoxy Sold Separately)			
FSMA	A9835-ND	1016.72	503746-2
LC	A97956-ND	870.90	1754603-1
Scribing Tools			
Sapphire-Tipped Scribe Tool	A99109-ND	52.26	504064-1
Replacement Blades for A99109-ND	A99110-ND	66.17	504290-1
Consumables Kits			
FSMA, FSD, ST Style	A9836-ND	216.28	502306-1
Epoxy Curing Oven			
110VAC Oven with Adapter Block - Universal Block*	A20220-ND	1103.08	502134-1

* Universal block 12 single and 4 FSD Connectors

MT-RJ Secure Panel Jacks

No Epoxy / No Polish (NENP)

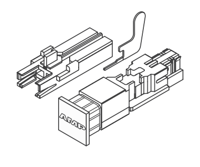

Features:

- Patch panel jacks terminate two 900 µm tight-buffered fibers
- No epoxy, no polishing, no crimping
- Jack design eliminates the need for MT-RJ Coupler
- Small form factor design is half the size of SC duplex

Housing Color	Fiber Size (µm)	Mode Type	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Red	62.5/125	Multi	A99575-ND	220.12	195.66	6588878-1
Yellow	62.5/125	Multi	A99576-ND	220.12	195.66	6588878-2
Green	62.5/125	Multi	A99577-ND	220.12	195.66	6588878-3

MT-RJ Secure Outlet Jacks

No Epoxy / No Polish (NENP)

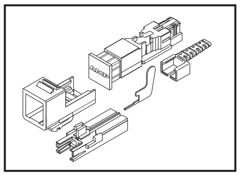

Features: • Outlet jacks terminate two 900 µm tight-buffered fibers • No epoxy, no polishing, no crimping • Each part number includes: • One outlet jack • Actuation tool • Bend-limiting boot • SL Series Housing • Jack design eliminates need for MT-RJ Coupler • Small form factor design is half the size of SC duplex

Housing Color	Fiber Size (µm)	Mode Type	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Red	62.5/125	Multi	A99562-ND	40.25	35.78	6278810-1
Yellow	62.5/125	Multi	A99563-ND	40.25	35.78	6278810-2
Green	62.5/125	Multi	A99564-ND	40.25	35.78	6278810-3
Red	50/125	Multi	A99565-ND	40.25	35.78	6754252-1
Yellow	50/125	Multi	A99566-ND	40.25	35.78	6754252-2
Green	50/125	Multi	A99567-ND	40.25	35.78	6754252-3

Secure LightCrimp PLUS Connectors

Fig. 1

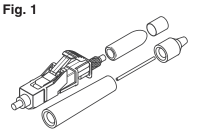

Fig. 2

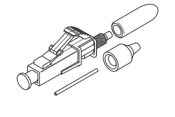

Fig. 3

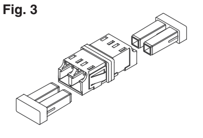

Fig.	Housing Color	Fiber Size (µm)	Mode Type	Connector Type	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LC Style								
1	Red	62.5/125	Multi	Simplex	A99581-ND	27.41	24.36	1985961-1
	Yellow	62.5/125	Multi	Simplex	A99582-ND	27.41	24.36	1985961-2
	Green	62.5/125	Multi	Simplex	A99583-ND	27.41	24.36	1985961-3
	Red	10 Gig 50/125	Multi	Simplex	A99584-ND	27.41	24.36	1985960-1
	Yellow	10 Gig 50/125	Multi	Simplex	A99585-ND	27.41	24.36	1985960-2
	Green	10 Gig 50/125	Multi	Simplex	A99586-ND	27.41	24.36	1985960-3
2	Red	—	Single	Simplex	A99587-ND	37.55	33.38	1828856-1
	Yellow	—	Single	Simplex	A99588-ND	37.55	33.38	1828856-2
	Green	—	Single	Simplex	A99589-ND	37.55	33.38	1828856-3
3	Red	—	Multi	Adapter	A99590-ND	13.57	12.06	1828074-1
	Yellow	—	Multi	Adapter	A99591-ND	13.57	12.06	1828074-2
	Green	—	Multi	Adapter	A99592-ND	13.57	12.06	1828074-3

Secure Cable Assembly

Fig. 1

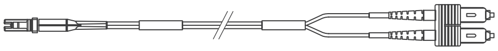

Fig. 2

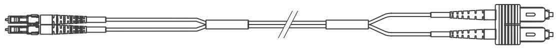

Fig.	Housing Color	Fiber Size (µm)	Mode Type	Digi-Key Part No.	Price Each 1	10	AMP Part No.
MT-RJ Secure/SC-Duplex							
1	Red	10 Gig 50/125	Multi	A99568-ND	68.36	60.76	6754410-3
	Yellow	10 Gig 50/125	Multi	A99569-ND	68.36	60.76	6754411-3
	Green	10 Gig 50/125	Multi	A99570-ND	68.36	60.76	6754412-3
	Red	62.5/125	Multi	A99571-ND	63.27	56.24	6278894-3
	Yellow	62.5/125	Multi	A99572-ND	63.27	56.24	6278895-3
	Green	62.5/125	Multi	A99573-ND	63.27	56.24	6278896-3
LC-Duplex Secure/SC-Duplex							
2	Red	62.5/125	Multi	A99596-ND	66.08	58.74	1828872-3
	Red	OFNR (Riser) Jacket	Single	A99593-ND	98.12	87.22	1905089-3
	Yellow		Single	A99594-ND	69.41	61.70	1905091-3
	Green		Single	A99595-ND	88.81	78.94	1905092-3
	Red	10 Gig 50/125	Multi	A99597-ND	82.17	73.04	1906070-3
	Yellow	10 Gig 50/125	Multi	A99598-ND	82.17	73.04	1906072-3
	Green	10 Gig 50/125	Multi	A99599-ND	82.17	73.04	1906073-3

intersil NEW! Q-Active® Copper Cable Solutions

Intersil's Q-Active SFP+ and QSFP copper cables fill the expanding need for cost effective data center interconnects that cannot be served with passive copper or expensive fiber optic solutions.
Features: • SFP+ has reduced capital expediture through low power consumption • QSFP has increased copper cable reach 3-5x • 80% power reduction over short reach fiber optic cables • Significant reduction in data center operating expenses • Extends passive cable signal reach by 3x • Thinner gauge cables vs. passive solutions

Size	Diameter	Max. Reach (10Gbps)	Digi-Key Part No.	Price Each 1	25	Intersil Part No.
SFP+ Active Copper Cables						
32	.165	5 Meters	QLX1000CSFP0532-ND	147.90	119.63	QLX1000CSFP0532
28	.276	10 Meters	QLX1000CSFP1028-ND	187.45	155.25	QLX1000CSFP1028
24	.365	15 Meters	QLX1000CSFP1524-ND	234.72	190.80	QLX1000CSFP1524
QSFP Active Copper Cables						
32	.165	5 Meters	QLX4000CQSFP0532-ND	171.15	141.75	QLX4000CQSFP0532
28	.276	10 Meters	QLX4000CQSFP1028-ND	307.20	254.40	QLX4000CQSFP1028

Description	Digi-Key Part No.	Price Each	Intersil Part No.
Evaluation Boards for QHx220 Series			
Evaluation Board for EBH220BGPS	EBH220BGPS-EVALZ-ND	1400.00	EBH220BGPS-EVALZ
Evaluation Board for EBH220BMTV	EBH220BMTV-EVALZ-ND	1400.00	EBH220BMTV-EVALZ
Evaluation Board for EBH220BWLAN	EBH220BWLAN-EVALZ-ND	1400.00	EBH220BWLAN-EVALZ
Evaluation Boards for QLx4000 Series			
Evaluation Board for EBL4300CI	EBL4300CI-EVALZ-ND	748.50	EBL4300CI-EVALZ
Evaluation Board for EBL4600CI	EBL4600CI-EVALZ-ND	748.50	EBL4600CI-EVALZ
Evaluation Board for EBL4600CL	EBL4600CL-EVALZ-ND	748.50	EBL4600CL-EVALZ

AVAGO
TECHNOLOGIES

Transmitters and Receivers

RoHS COMPLIANT

Fig.	Description	Connector Type	Wave-length (nm)	Oper. Temp. (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
1	Transmitter, 125MBd Versatile Link	Versatile	650	-40~70	2.1	516-1746-ND	14.67	14.17	11.14	HFBR-1527Z
	Receiver, 125MBd Versatile Link	Versatile	650	0~70	6.0	516-1747-ND	19.14	18.48	14.52	HFBR-2526Z
	Transmitter, 5MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2043-ND	11.88	11.00	8.36	HFBR-1521Z
	Receiver, 5MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2062-ND	11.88	11.00	8.36	HFBR-2521Z
	Transmitter, 1MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2044-ND	11.88	11.00	8.36	HFBR-1522Z
	Receiver, 1MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2063-ND	11.88	11.00	8.36	HFBR-2522Z
	Transmitter, 40kBd Low Current/Extended Distance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2045-ND	11.88	11.00	8.36	HFBR-1523Z
	Receiver, 40kBd Low Current/Extended Distance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2064-ND	11.88	11.00	8.36	HFBR-2523Z
	Transmitter, 1MBd Standard Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2046-ND	11.88	11.00	8.36	HFBR-1524Z
	Receiver, 1MBd Standard Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2065-ND	11.88	11.00	8.36	HFBR-2524Z
	Transmitter, 10MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2047-ND	12.65	11.90	8.86	HFBR-1528Z
	Receiver, 10MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2066-ND	19.80	18.62	13.86	HFBR-2528Z
	Transmitter, 5MBd High Performance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2048-ND	13.20	12.41	9.24	HFBR-1531Z
	Receiver, 5MBd High Performance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2067-ND	13.20	12.41	9.24	HFBR-2531Z
	Transmitter, 1MBd High Performance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2049-ND	13.20	12.41	9.24	HFBR-1532Z
	Receiver, 1MBd High Performance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2068-ND	13.20	12.41	9.24	HFBR-2532Z
	Transmitter, 40kBd Low Current/Extended Distance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2050-ND	13.20	12.41	9.24	HFBR-1533Z
	Receiver, 40kBd Low Current/Extended Distance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2069-ND	13.20	12.41	9.24	HFBR-2533Z
2	Transmitter, Data Link for 266MBd	ST	1300	0~70	5.5	516-2031-ND	73.15	65.45	52.94	HFBR-1119TZ
	Receiver, Data Link for 266MBd	ST	1300	0~70	5.5	516-2051-ND	73.15	65.45	52.94	HFBR-2119TZ
3	Transmitter, Low Cost Fiber Optic Link	ST	1300	-40~85	1.4	516-2032-ND	50.00	47.50	35.00	HFBR-1312TZ
	Receiver, Low Cost Fiber Optic Link	ST	1300	-40~85	6.0	516-2052-ND	50.00	47.50	35.00	HFBR-2316TZ
	Transmitter, Low Cost, Miniature, Standard Power, Threaded Metal	ST	820	-40~85	1.7	516-2035-ND	21.50	20.21	15.05	HFBR-1412TMZ
	Receiver, Low Cost, Miniature, 5MBd, TTL Output, Threaded Conductive	ST	820	-40~85	7.0	516-2054-ND	21.50	20.21	15.05	HFBR-2412TCZ
	Transmitter, Low Cost, Miniature, Standard Power, Threaded	ST	820	-40~85	1.7	516-2036-ND	21.50	20.21	15.05	HFBR-1412TZ
	Receiver, Low Cost, Miniature, 5MBd, TTL Output, Threaded	ST	820	-40~85	7.0	516-2055-ND	21.50	20.21	15.05	HFBR-2412TZ
	Transmitter, Low Cost, Miniature, High Power, Threaded	ST	820	-40~85	1.7	516-2039-ND	21.50	20.21	15.05	HFBR-1414TZ
	Receiver, Low Cost, Mini, 125MHz, Analog Output, Threaded Conductive	ST	820	-40~85	7.0	516-2057-ND	21.50	20.21	15.05	HFBR-2416TCZ
	Receiver, Low Cost, Miniature, 125MHz, Analog Output, Threaded	ST	820	-40~85	7.0	516-2058-ND	21.50	20.21	15.05	HFBR-2416TZ
4	Transmitter, Low Cost, Miniature, Standard Power	SMA	820	-40~85	1.7	516-2033-ND	21.50	20.21	15.05	HFBR-1402Z
	Receiver, Low Cost, Miniature, 5MBd, TTL Output	SMA	820	-40~85	7.0	516-2053-ND	21.50	20.21	15.05	HFBR-2402Z
	Transmitter, Low Cost, Miniature, High Power	SMA	820	-40~85	1.7	516-2034-ND	21.50	20.21	15.05	HFBR-1404Z
	Receiver for SERCOS with Open-Collector Output	SMA	—	-40~85	7.0	516-2070-ND	18.75	17.63	13.13	HFBR-2602Z
5	Transmitter, Low Cost, Miniature, Standard Power	ST	820	-40~85	1.7	516-2037-ND	21.50	20.21	15.05	HFBR-1412Z
	Receiver, Low Cost, Miniature, 5MBd, TTL Output	ST	820	-40~85	7.0	516-2056-ND	21.50	20.21	15.05	HFBR-2412Z
	Transmitter, Low Cost, Miniature, High Power	ST	820	-40~85	1.7	516-2040-ND	21.50	20.21	15.05	HFBR-1414Z
	Transmitter, Low Cost, Miniature, High Power, Metal	ST	820	-40~85	1.7	516-2038-ND	21.50	20.21	15.05	HFBR-1414MZ
	Receiver, Low Cost, Miniature, 125MHz, Analog Output	ST	820	-40~85	7.0	516-2059-ND	21.50	20.21	15.05	HFBR-2416Z
6	Transmitter, Low Cost, Miniature, High Power	SC	820	-40~85	1.7	516-2041-ND	23.65	22.24	16.56	HFBR-14E4Z
	Receiver, Low Cost, Miniature, 125MHz, Analog Output	SC	820	-40~85	7.0	516-2060-ND	21.50	20.21	15.05	HFBR-24E6Z
7	Transmitter for SERCOS Applications	SMA	650	-40~85	2.1	516-2042-ND	16.50	15.51	11.55	HFBR-1505AZ
	Receiver for SERCOS Applications	SMA	650	-40~85	5.5	516-2061-ND	19.80	18.62	13.86	HFBR-2505AZ

Fig. 1

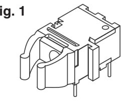

Fig. 2

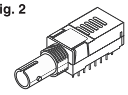

Fig. 3

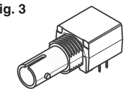

Fig. 4

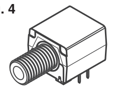

Fig. 5

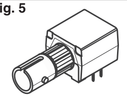

Fig. 6

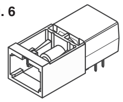

Fig. 7

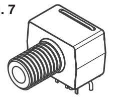

Fiber Optic Connectors, Cable, Accessories, and Kits

Fig. 1

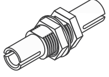

Fig. 2

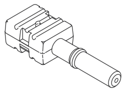

Fig. 3

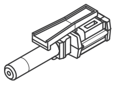

Fig. 4

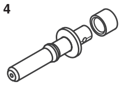

Fig. 5

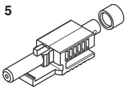

Fig. 6

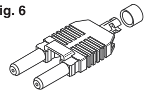

Fig. 7

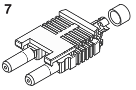

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
	Connectors — RoHS Compliant					
1	Bulkhead Adapter, Gray	516-1748-ND	1.80	1.53	1.31	HFBR-4505Z
	Bulkhead Adapter, Blue	516-1891-ND	1.69	1.47	1.13	HFBR-4515
	Bulkhead Adapter, Blue	516-2076-ND	1.69	1.47	1.13	HFBR-4515Z
2	Crimpless Connector, Black	516-1749-ND	1.04	.89	.76	HFBR-4531Z
	Crimpless Connector, Blue	516-2080-ND	.98	.85	.65	HFBR-4533Z
	Crimpless Connector, Gray	516-2081-ND	.98	.85	.65	HFBR-4535Z
3	Crimpless Latching Connector, Black	516-2079-ND	.98	.85	.65	HFBR-4532Z
4	Simplex Connector, Gray	516-1889-ND	1.13	.98	.75	HFBR-4501
	Simplex Connector, Gray	516-2071-ND	1.13	.98	.75	HFBR-4501Z
	Simplex Connector, Blue	516-2074-ND	1.13	.98	.75	HFBR-4511Z
5	Simplex Latching Connector, Gray	516-2072-ND	.98	.85	.65	HFBR-4503Z
	Simplex Latching Connector, Blue	516-2075-ND	.98	.85	.65	HFBR-4513Z
6	Duplex Connector	516-2073-ND	1.63	1.53	1.23	HFBR-4506Z
7	Duplex Latching Connector, Gray	516-2077-ND	1.63	1.53	1.23	HFBR-4516Z
	Cable — RoHS Compliant					
—	1m Simplex Cable for Latching Connectors	516-2088-ND	6.42	5.89	4.50	HFBR-RLS001Z
	1m Simplex Cable for Standard Connectors	516-2090-ND	6.42	5.89	4.50	HFBR-RNS001Z
	5m Simplex Cable for Standard Connectors	516-2091-ND	10.64	9.85	7.49	HFBR-RNS005Z
	5m Duplex Cable for Standard Connectors	516-2089-ND	19.70	18.52	13.79	HFBR-RMD005Z
	10m Simplex Cable for Standard Connectors	516-2092-ND	15.48	14.55	10.84	HFBR-RNS010Z
	100m Simplex Cable, Unconnectored	516-2095-ND	85.50	76.50	61.88	HFBR-RUS100Z
	100m Simplex, Unconn., Ext. Low Loss POF	516-2086-ND	99.60	90.00	81.00	HFBR-EUS100Z
	100m Duplex Cable, Unconnectored	516-2093-ND	149.40	135.00	121.50	HFBR-RUD100Z
	500m Simplex Cable, Unconnectored	516-2096-ND	326.25	309.38	292.50	HFBR-RUS500Z
—	500m Simplex, Unconn., Ext. Low Loss POF	516-2087-ND	405.00	390.00	375.00	HFBR-EUS500Z
	500m Duplex Cable, Unconnectored	516-2094-ND	607.50	585.00	562.50	HFBR-RUD500Z
	Accessories — RoHS Compliant					
—	1000 Simplex Crimp Rings	516-2078-ND	122.84	111.00	99.90	HFBR-4525Z
	Polishing Kit	516-2082-ND	5.28	4.84	3.70	HFBR-4593Z
	Plastic Fiber Crimping Tool	516-2083-ND	268.25	254.38	240.50	HFBR-4597Z
	NEW! Kits NEW!					
—	Evaluation Kit, TXRX 650NM FE	516-2135-ND◆	405.00	—	—	AFBR-0978Z
	Evaluation Kit, Fiber Optic 155MBD	516-2136-ND	152.25	—	—	HFBR-0310
	Evaluation Kit, Fiber Optic 266MBD	516-2137-ND	166.75	—	—	HFBR-0319
	Evaluation Kit, Fiber Optic 5MBD	516-2138-ND	59.50	—	—	HFBR-0410
	Evaluation Kit, Fiber Optic 125-160MBD	516-2140-ND	169.65	—	—	HFBR-0416
	Evaluation Kit, Fiber Optic 5MBD	516-2141-ND◆	32.50	—	—	HFBR-0501
	Evaluation Kit, Fiber Optic 125MBD	516-2142-ND◆	188.50	—	—	HFBR-0527H
	Evaluation Kit, Fiber Optic 125MBD	516-2143-ND◆	188.50	—	—	HFBR-0527P
	Evaluation Kit, Fiber Optic 10MBD	516-2144-ND◆	66.22	—	—	HFBR-0528
	Evaluation Kit, Fiber Optic 32MBD	516-2145-ND	112.00	—	—	HFBR-0536
	Evaluation Kit, Fiber Optic 32MBD	516-2146-ND◆	112.00	—	—	HFBR-0537
	Evaluation Kit, Fiber Optic Interbus	516-2147-ND◆	66.30	—	—	HFBR-0538
	Evaluation Kit, Fiber Optic Profibus	516-2148-ND◆	66.30	—	—	HFBR-0539
	Evaluation Kit, Fiber Optic Sercos	516-2149-ND◆	66.30	—	—	HFBR-0540
	Evaluation Kit, Fiber Optic Sercos 16MBD	516-2150-ND◆	96.00	—	—	HFBR-0541

◆ ***RoHS Compliant***

Transceivers

RoHS COMPLIANT

Fig. 1

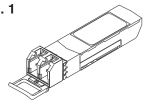

Fig. 2

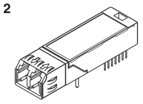

Fig. 3

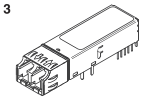

Fig. 4

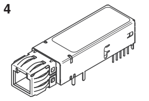

Fig. 5

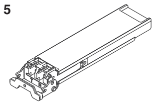

Fig. 6

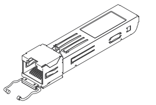

Fig.	Description	Connector Type	Wave-length (nm)	Operating Temperature (°C)	Link Distance (m)	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
1	Optical Transceiver with DMI, SFP, 2/1/1 GBd	LC	850	-10~85	300, 500, 550	516-1713-ND	58.75	56.40	44.65	AFBR-57M5APZ
	Optical Transceiver with DMI, SFP, 4/2/1 GBd	LC	850	-10~85	150, 300, 500	516-1987-ND	54.50	51.78	38.15	AFBR-57R5APZ
	Optical Transceiver without DMI, SFP, 1.25 GBd	LC	850	-10~85	550	516-1986-ND	47.00	44.65	32.90	AFBR-5710PZ
2	Optical Transceiver with DMI, SFF, 4/2/1 GBd	LC	850	-10~85	150, 300, 500	516-1995-ND	47.00	44.65	32.90	AFBR-59R5LZ
3	SFF Optical Transceiver for Gigabit Ethernet and iSCSI	LC	850	0~70	275, 550	516-2084-ND	75.05	67.15	54.32	HFBR-5911LZ
4	SFF Optical Transceiver for Gigabit Ethernet and VCSEL	MT-RJ	850	0~70	220, 275, 500, 550	516-2085-ND	91.20	81.60	66.00	HFBR-5912EZ

(Continued)

Avago Transceivers *(Cont.)*

RoHS

Fig. 7
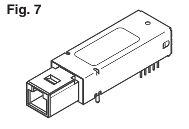

Fig. 8
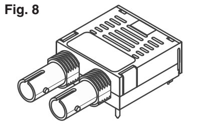

Fig. 9
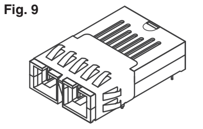

Fig. 10
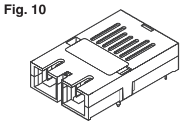

Fig. 11
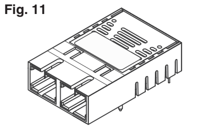

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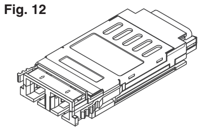

Fig.	Description	Connector Type	Wave-length (nm)	Operating Temperature (°C)	Link Distance (m)	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
5	XFP Optical Transceiver, 10Gbps	LC	850	0~70	300	516-1996-ND	326.25	309.38	292.50	AFBR-720XPDZ
6	Electrical Transceiver, Cat. 5 Cable, 1000BASE-T 1.25GBd SFP	RJ-45	—	0~70	100	516-1976-ND	84.66	76.50	68.85	ABCU-5700RZ
	Electrical Transceiver, Cat. 5 Cable, 1000BASE-T 1.25GBd SFP	RJ-45	—	0~70	100	516-1977-ND	84.66	76.50	68.85	ABCU-5710RZ
7	FDDI, Fast Ethernet Transceiver in 2x5 Package Style	MT-RJ	1300	-40~85	—	516-1992-ND	58.00	55.10	40.60	AFBR-5903AZ
	FDDI, Fast Ethernet Transceiver in 2x5 Package Style	MT-RJ	1300	0~70	—	516-1993-ND	47.40	45.03	33.18	AFBR-5903Z
	ATM, Fast Ethernet Transceiver in 2x5 Package Style	MT-RJ	1300	0~70	—	516-1994-ND	47.40	45.03	33.18	AFBR-5905Z
8	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	ST	1300	-40~85	2000	516-1981-ND	46.00	43.70	32.20	AFBR-5103ATZ
	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	ST	1300	0~70	2000	516-1982-ND	42.75	38.00	30.40	AFBR-5103TZ
	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	ST	1300	-10~85	2000	516-1988-ND	33.00	31.35	23.10	AFBR-5803ATZ
	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	ST	1300	0~70	2000	516-1990-ND	33.75	30.00	24.00	AFBR-5803TZ
9	Transceiver for Gigabit Ethernet in 1x9 Package Style, VCSEL	SC	850	0~70	220	516-1984-ND	76.95	68.85	55.69	AFBR-53D5EZ
10	Transceiver for ATM, SONET/SDH in 1x9 Package Style	SC	1300	0~70	1500	516-1997-ND	84.98	76.79	69.11	AFCT-5805BZ
11	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	SC	1300	0~70	2000	516-1983-ND	42.75	38.00	30.40	AFBR-5103Z
	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	SC	1300	-10~85	2000	516-1989-ND	33.00	31.35	23.10	AFBR-5803AZ
	FDDI and ATM, Fast Ethernet Transceiver in Low Cost 1x9 Package Style	SC	1300	0~70	2000	516-1991-ND	33.75	30.00	24.00	AFBR-5803Z
12	Gigabit Interface Converter for Gigabit Ethernet	SC	850	0~60	500	516-1985-ND	66.50	59.50	48.13	AFBR-5601Z

MERGE OPTICS Optical Transceivers

RoHS

Specification: • Operating Temperature: 0°C ~ 70°C

Fig. 1
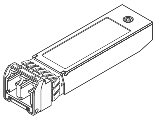

Fig. 2
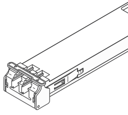

Fig.	Rate (Gb/s)	Wavelength (nm)	Link Distance	Digi-Key Part No.	Price Each	Merge Optics Part No.
1	10	850	300m	827-1000-ND	166.67	TRX10GVP2010
	10	1310	10km	827-1001-ND	400.00	TRX10GDP0310
	10	1310	220m	827-1002-ND	400.00	TRX10GDL0610
2	10	850	82m, 300m	827-1003-ND	216.67	TRX10GVP2001
	10	1310	10km	827-1004-ND	516.67	TRX10GDP0301

OPTEK Infrared Emitters and Receivers

A subsidiary of TT electronics plc

RoHS

Fig. 1 *(Panel Mount)*
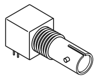

Fig. 2
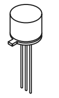

Fig. 3
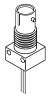

Fiber Optic (850nm) Light-Emitting Diodes

Fig.	Optical Power Output Minimum / Typical	Output Rise Time Typical (ns)	Continuous Forward DC Current (mA)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
1	-17.3dBm / -13.8dBm	4.0	100	365-1024-ND	20.82	12.12	11.65	OPF1414T
2	25.0μW / 29.0μW	6.0	100	365-1026-ND	12.10	7.04	6.77	OPF370A
3	25.0μW / 29.0μW	6.0	100	365-1404-ND	23.71	13.80	13.27	OPF372A

Fiber Optic Pin Photodiodes and Receivers

Fig.	Responsivity Minimum / Typical	Output Rise Time Typical (ns)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
2	0.45AW / 0.55AW	1.0	365-1029-ND	9.96	5.80	5.57	OPF480
3	0.45AW / 0.55AW	1.0	365-1030-ND	21.07	12.26	11.79	OPF482

Honeywell Sensing and Control Modules and Detectors

Dimensions in mm

Fig. 1
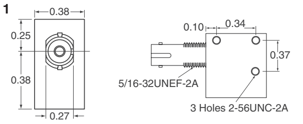

Fig. 2
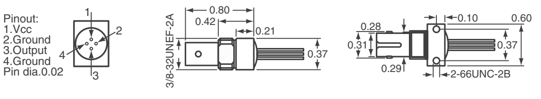

Fig. 3
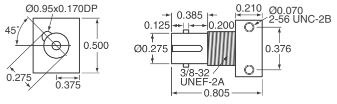

Fig.	Operating Temperature	Description	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
			Single Fiber Duplex Modules				
1	0°C ~ 70°C	1300nm Multimode Laser	480-2032-ND	304.66	262.50	250.00	HOD2236-111/BBA
	0°C ~ 70°C	850nm VSCEL	480-2033-ND	282.91	243.76	232.15	HOD4090-111/BBA
			Fiber Optic Detectors				
2	-40°C ~ 85°C	850nm TTL TO46	480-2034-ND	54.37	45.04	43.10	HFD3023-500-BBA
3	-40°C ~ 100°C	Silicon PIN Photodiode	480-2035-ND	45.68	36.34	34.05	HFD3065-002-BBA

intel Leap ahead™ SFP Optical Transceivers

RoHS

Intel optical components are modular building blocks that enable networking equipment manufacturers to create standard-based products with shorter time to market and reduce development costs. These Optical Transceivers are key components in high-speed enterprise networks for electrical and optical signal conversion. On Board Diagnostic.

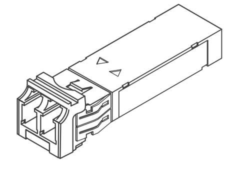

Description	Wavelength (nm)	Link Distance	Operating Temperature	Digi-Key Part No.	Price Each 1	10	Intel Part No.
				Small Form-Factor Pluggable			
4/2/1Gbps, Singlemode	1310	4km	-30°C ~ 85°C	881112-ND	118.50	110.73	TXN21125D000000
4/2/1Gbps, Singlemode	1310	10km	-30°C ~ 85°C	867394-ND	191.39	186.31	TXN22125D000000

Finisar® Copper and Optical Transceivers

Broad product offerings and innovative technology have made Finisar the world's largest supplier of pluggable optical modules. Finisar has taken a major role in transforming the datacom and telecom equipment market from utilizing discrete optical components to leveraging the design and pay-as-you-grow flexibility offered by pluggable modules. By incorporating patented technologies across broad product lines, Finisar provides superior advantages in terms of cost, reach and performance for both datacom and telecom applications.

Fig.	Media Type	Data Rate (Maximum)	Wavelength (nm)	Link Distance	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	25	100	Finisar Part No.
SFP/SFP+ — RoHS Compliant										
1	Copper	1.25Gb/s	—	100m	0 ~ 85	775-1002-ND	93.10	78.40	67.38	FCLF-8520-3
	Copper	1.25Gb/s	—	100m	0 ~ 85	775-1003-ND	93.10	78.40	67.38	FCLF-8521-3
2	Single Mode	155Mb/s	1310	15km	-40 ~ 85	775-1019-ND	87.40	73.60	63.25	FTLF1323P1BTR
	Single Mode	155Mb/s	1310	40km	-40 ~ 85	775-1018-ND	97.94	85.55	79.65	FTLF1323P1BTL
	Single Mode	155Mb/s	1550	80km	-40 ~ 85	775-1032-ND	220.40	205.20	197.60	FTLF1523P1BTL
	Single Mode	622Mb/s	1310	15km	-40 ~ 85	775-1017-ND	86.32	75.40	70.20	FTLF1322P1BTR
	Single Mode	622Mb/s	1310	40km	-40 ~ 85	775-1024-ND	172.55	160.65	154.70	FTLF1422P1BTL
	Single Mode	622Mb/s	1550	80km	-40 ~ 85	775-1031-ND	233.45	217.35	209.30	FTLF1522P1BTL
	Single Mode	1.25Gb/s	1310	10km	-40 ~ 85	775-1013-ND	87.98	76.85	71.55	FTLF1318P2BTL
	Single Mode	1.25Gb/s	1310	10km	0 ~ 70	775-1012-ND	93.10	78.40	67.38	FTLF1318P2BCL
	Single Mode	2.125Gb/s	1310	10km	-40 ~ 85	775-1015-ND	99.60	87.00	81.00	FTLF1319P1BTL
	Single Mode	2.125Gb/s	1310	55km	-10 ~ 70	775-1022-ND	279.85	260.55	250.90	FTLF1419P1BCL
	Single Mode	2.125Gb/s	1550	90km	-10 ~ 70	775-1029-ND	342.20	313.88	306.80	FTLF1519P1BCL
	Single Mode	2.125Gb/s	1550	115km	-10 ~ 70	775-1033-ND	481.95	455.18	446.25	FTLF1619P1BCL
	Single Mode	2.67Gb/s	1310	2km	-40 ~ 85	775-1016-ND	151.06	131.95	122.85	FTLF1321P1BTL
	Single Mode	2.67Gb/s	1310	15km	-10 ~ 70	775-1023-ND	182.70	170.10	163.80	FTLF1421P1BCL
	Single Mode	2.67Gb/s	1310	40km	-10 ~ 70	775-1035-ND‡	464.40	438.60	430.00	FTLF1721P2BCL
	Single Mode	2.67Gb/s	1550	15km	0 ~ 70	775-1030-ND	441.45	416.93	408.75	FTLF1521P1BCL
	Single Mode	2.67Gb/s	1550	80km	-10 ~ 70	775-1034-ND‡	642.60	606.90	595.00	FTLF1621P2BCL
	Single Mode	4.25Gb/s	1310	4km	-40 ~ 85	775-1020-ND	164.34	143.55	133.65	FTLF1324P2BTL
	Single Mode	4.25Gb/s	1310	4km	-40 ~ 85	775-1021-ND	150.80	140.40	135.20	FTLF1324P2BTV
	Single Mode	4.25Gb/s	1310	10km	-10 ~ 70	775-1025-ND	304.50	283.50	273.00	FTLF1424P2BCD
	Single Mode	4.25Gb/s	1310	10km	-10 ~ 70	775-1027-ND	282.75	263.25	253.50	FTLF1424P2BCR
	Single Mode	4.25Gb/s	1310	30km	-10 ~ 70	775-1026-ND	410.40	387.60	380.00	FTLF1424P2BCL
	Single Mode	4.25Gb/s	1310	30km	-10 ~ 70	775-1028-ND	430.65	406.73	398.75	FTLF1424P2BCV
	Multimode	125Mb/s	1310	2km	-40 ~ 85	775-1011-ND	58.00	52.20	40.60	FTLF1217P2BTL
	Multimode	2.125Gb/s	850	550m	-40 ~ 85	775-1041-ND	56.00	50.40	39.20	FTLF8519P2BTL
	Multimode	2.125Gb/s	850	550m	-20 ~ 85	775-1040-ND	52.00	46.80	36.40	FTLF8519P2BNL
	Multimode	2.125Gb/s	850	550m	0 ~ 70	775-1039-ND	50.00	45.00	35.00	FTLF8519P2BCL
	Multimode	4.25Gb/s	850	550m	-20 ~ 85	775-1044-ND	52.00	46.80	36.40	FTLF8524P2BNL
	Multimode	4.25Gb/s	850	550m	-20 ~ 85	775-1045-ND	56.00	50.40	39.20	FTLF8524P2BNV
	Multimode	8.5Gb/s	850	150m†	-5 ~ 85	775-1046-ND	121.18	105.85	98.55	FTLF8528P2BNV
3	Single Mode	10Gb/s	1310	10km	-5 ~ 70	775-1061-ND	326.25	299.25	292.50	FTLX1471D3BCL
	Multimode	10Gb/s	850	300m	0 ~ 70	775-1060-ND	159.50	148.50	143.00	FTLX8571D3BCL
SFF — RoHS Compliant										
4	Single Mode	2.125Gb/s	1310	10km	-40 ~ 85	775-1014-ND	109.56	95.70	89.10	FTLF1319F1GTL
	Multimode	2.125Gb/s	850	550m	-40 ~ 85	775-1038-ND	56.00	50.40	39.20	FTLF8519F2GTL
	Multimode	2.125Gb/s	850	550m	-10 ~ 85	775-1037-ND	52.00	46.80	36.40	FTLF8519F2GNL
	Multimode	4.25Gb/s	850	550m	-10 ~ 85	775-1042-ND	52.00	46.80	36.40	FTLF8524E2GNL
	Multimode	4.25Gb/s	850	550m	-10 ~ 85	775-1043-ND	56.00	50.40	39.20	FTLF8524E2GNV
	Multimode	2.125Gb/s	850	550m	0 ~ 70	775-1036-ND	50.00	45.00	35.00	FTLF8519F2GCL
GBIC — RoHS Compliant										
5	Copper	1.25Gb/s	—	100m	0 ~ 75	775-1000-ND	154.38	134.85	125.55	FCL-8520-3
	Copper	1.25Gb/s	—	100m	0 ~ 75	775-1001-ND	154.38	134.85	125.55	FCL-8521-3
6	Single Mode	1.25Gb/s	1310	10km	-10 ~ 85	775-1007-ND	122.84	107.30	99.90	FTL-1319-3D
	Single Mode	1.25Gb/s	1310	40km	0 ~ 70	775-1008-ND	345.10	321.30	309.40	FTL-1419-3D
	Single Mode	1.25Gb/s	1550	80km	0 ~ 60	775-1009-ND	491.40	464.10	455.00	FTL-1519-3D
	Multimode	1.25Gb/s	850	550m	-10 ~ 85	775-1010-ND	68.40	57.60	49.50	FTL-8519-3D
XENPAK — RoHS Compliant										
7	Single Mode	10Gb/s	1310	10km	0 ~ 70	775-1063-ND	730.60	702.50	688.45	FTLX1461E2
	Multimode	10Gb/s	850	300m	0 ~ 70	775-1062-ND	430.65	406.73	398.75	FTLX8561E2
XFP — RoHS Compliant										
8	Single Mode	10.5Gb/s	1310	10km	-5 ~ 75	775-1047-ND	410.40	387.60	380.00	FTLX1412D3BCL
	Single Mode	11.3Gb/s	1310	10km	-5 ~ 75	775-1048-ND	430.65	406.73	398.75	FTLX1412M3BCL
	Single Mode	11.1Gb/s	1550	40km	-5 ~ 70	775-1050-ND	1433.10	1388.14	1348.80	FTLX1611M3
	Single Mode	11.1Gb/s	1550	80km	-5 ~ 70	775-1051-ND	2133.08	2066.16	2007.60	FTLX1811M3
	Multimode	10.5Gb/s	850	300m†	0 ~ 70	775-1052-ND	297.25	276.75	266.50	FTLX8511D3
XPAK — RoHS Compliant										
9	Multimode	10.3Gb/s	850	300m†	0 ~ 70	775-1054-ND	410.40	387.60	380.00	FTLX8551E3
X2 — RoHS Compliant										
10	Single Mode	10.3Gb/s	1310	10km	0 ~ 70	775-1049-ND	670.80	645.00	632.10	FTLX1441E2
	Multimode	10.3Gb/s	850	300m†	0 ~ 70	775-1053-ND	409.05	386.33	378.75	FTLX8541E2
Accessories										
Evaluation Board for SFP						775-1004-ND◆		290.00/1		FDB-1018
Evaluation Board for XFP						775-1005-ND◆		650.00/1		FDB-1022
Evaluation Board for SFP/SFP+						775-1006-ND		337.50/1		FDB-1027
SFP Cage Plug						775-1055-ND◆		14.88/1		V23818-S5-B1
SFP Cage						775-1059-ND◆		6.15/1		V23838-S5-N1

◆ ***RoHS Compliant*** † Using 50-micron multimode fiber with 2000MHz km bandwidth. ‡ Extended case temperature ranges and reaches are available upon request.

Fig. 1

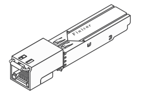

Fig. 2

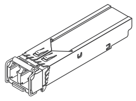

Fig. 3

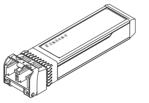

Fig. 4

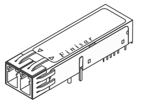

Fig. 5

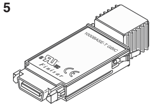

Fig. 6

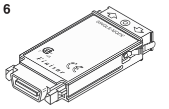

Fig. 7

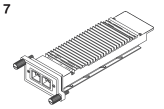

Fig. 8

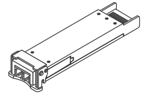

Fig. 9

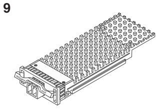

Fig. 10

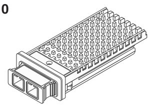

NEW! Laserwire™ Serial Data Link Active Cables

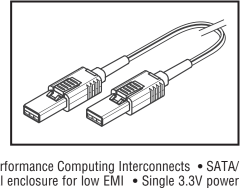

Finisar's Laserwire active cables provide the lowest cost serial data link solution for up to 10 Gb/s, while providing a very lightweight, low EMI and low-power alternative to comparable copper solutions. Laserwire operates independently of protocol and can thus be used in a wide range of applications. Laserwire plugs into the Laserwire Jack (FCBJ110LE1), a small footprint host-board connector. Laserwire utilizes a limiting receiver, avoiding the challenges of a linear receiver interface.

Applications: • 1/10 Gigabit Ethernet • 1/2/4/8G Fibre Channel • InfiniBand x1 • High Performance Computing Interconnects • SATA/SAS • HDMI • PCI-e x1 **Features:** • Single 1.0 ~ 10.3125 Gb/s bi-directional link • Metal enclosure for low EMI • Single 3.3V power supply • Low power dissipation: >500mW typical per end • RJ-45 Width • Red/Green LED link indicators **Operating Temperature Range:** 0°C ~ 60°C

Description	Digi-Key Part No.	Price Each 1	25	100	Finisar Part No.
3 meter Cable, 10.5GPS	775-1069-ND	129.48	113.10	105.30	FCBP110LD1L03
5 meter Cable, 10.5GPS	775-1070-ND	142.76	124.70	116.10	FCBP110LD1L05
10 meter Cable, 10.5GPS	775-1071-ND	153.70	143.10	137.80	FCBP110LD1L10
20 meter Cable, 10.5GPS	775-1072-ND	210.25	195.75	188.50	FCBP110LD1L20
30 meter Cable, 10.5GPS	775-1073-ND	268.25	249.75	240.50	FCBP110LD1L30
10G Serial Laserwire Jack	775-1074-ND	7.16	6.36	5.04	FCBJ110LE1
Kits					
3 meter Laserwire SFP+	775-1064-ND		137.78/1		FCBP110LD1L03S
5 meter Laserwire SFP+	775-1065-ND		151.06/1		FCBP110LD1L05S
10 meter Laserwire SFP+	775-1066-ND		160.95/1		FCBP110LD1L10S
20 meter Laserwire SFP+	775-1067-ND		218.95/1		FCBP110LD1L20S
30 meter Laserwire SFP+	775-1068-ND		275.50/1		FCBP110LD1L30S

SHARP MICROELECTRONICS OF THE AMERICAS Fiber Optics Transmitters and Receivers

Fig. 1

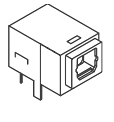

Fig. 2

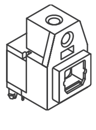

Fig.	Vcc Typ. (V)	ViH Min. (V)	ViL Max. (V)	VoH Min. (V)	VoL Max. (V)	Peak Wave-length (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
Transmitters												
1	5	2.1	2.9	—	—	660	13.2	425-1898-ND	1.50	1.26	.90	GP1FP513TK
2	5	2.0	0.8	—	—	660	13.2	425-2701-ND◆	1.18	.99	.71	GP1FAV50TK0F
Receivers												
1	5	—	—	2.7	0.5	700	13.2	425-1897-ND	1.70	1.43	1.02	GP1FP513RK

◆ ***RoHS Compliant***

TOSHIBA
Leading Innovation >>>

Fiber Optic Receiving and Transmitting Modules

RoHS COMPLIANT

Dimensions in mm

Fig. 1

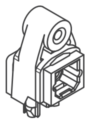

Fig. 2

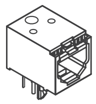

Fig. 3

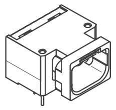

Fig. 4

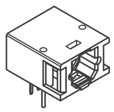

Fig. 5

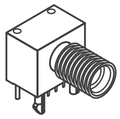

Fig. 6

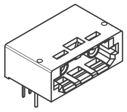

Fig.	Supply Voltage Min./Max. (Vcc)	Data Rate Mb/S	Current Con-sumption (mA)	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
				Receivers					
1	2.7/3.6	15	—	2.1/0.4	TORX147FT-ND	1.71	1.54	1.24	TORX147(F,T)
	2.7/3.6	15	—	2.1/0.4	TORX147LFT-ND‡	2.02	1.82	1.47	TORX147L(F,T)
	4.75/5.25	15	—	3.6/0.4	TORX177FT-ND	1.71	1.54	1.24	TORX177(F,T)
	4.75/5.25	15	—	3.6/0.4	TORX177LFT-ND	2.02	1.82	1.47	TORX177L(F,T)
2	2.7/3.6	15	15	2.1/0.4	TORX147PLFT-ND	2.17	1.96	1.58	TORX147PL(F,T)
4	3.0/3.6	20~125	60	1.15/1.49	TORX1701F-ND	29.00	26.83	22.84	TORX1701(F)
5	3.0/3.6	20~125	55	1.045/1.62	TORX1400F-ND	29.00	26.83	22.84	TORX1400(F)

Fig.	Supply Voltage Min./Max. (Vcc)	Data Rate Mb/S	Current Con-sumption (mA)	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
				Transceivers					
3	3.0/3.6	250	40(T)/35(R)	—	TODX2402(F)-ND	36.00	33.30	28.35	TODX2402(F)
6	3.0/3.6	125	50(T)/60(R)	1.15/1.49	TODX2701F-ND	46.25	43.13	37.50	TODX2701(F)
				Transmitters					
4	3.0/3.6	20~125	50	1.15/1.49	TOTX1701F-ND	27.00	24.98	21.27	TOTX1701(F)
5	3.0/3.6	20~125	55	1.165/1.475	TOTX1400F-ND	27.00	24.98	21.27	TOTX1400(F)

‡ With shutter

NEC / **CEL** California Eastern Laboratories

Fiber Optic Laser Diode Module

RoHS COMPLIANT

A Multiple Quantum Well (MQW) structured Fabry-Perot (FP) laser diode coaxial module with single mode fiber. This module is specified to operate under pulsed condition and designed for light source of Optical Time Domain Reflectometer (OTDR). **Features:** • High output power • Long wavelength **Specifications:** • Operating Temperature: -20°~60°C

Forward Voltage Max.	Threshold Current Max. (mA)	Optical Output Power Typ. (mW)	Center Wave-length Typ. (nm)	Rise/Fall Time Max. (ns)	Digi-Key Part No.	Price Each 1	10	100
4.0	50	80	1,550	2.0/2.0	NX7538BF-AA-AZ-ND	217.50	206.25	195.00

INDUSTRIAL FIBER OPTICS, INC.

Fiber Optic LEDs and Detectors

Fiber Optic family of low-cost, medium frequency, short distance fiber optic LEDs and photo detectors. **Features:** • Connector-less interface • No optical design required • Simple fiber termination and connection. Each LED and detector consists of a PBT housing, an internal active element such as an LED or photodetector, and a cinch nut to hold the fiber in place. The PBT housing retains the active element and the cinch nut while optimizing coupling between the active element and the jacketed 1000µm plastic fiber. **Shared Ratings:** Maximum Ratings and Characteristics (TA=25°C). **Operating and Storage Temperature Range (TOP,T STG):** -40°C ~ 85°C. De-rated above 25°C: 1.33mW/°C.

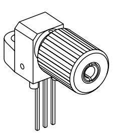

IR (Infrared) Detection Card 850nm

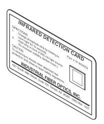

The illuminated area glows or produces a blueish green light when illuminated with IR light.

FB145-ND........................ **$32.50**

Fiber Optic Connector

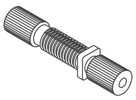

This multi-purpose connector is designed for jacketed 1mm core plastic fiber. It utilizes the same cinch nuts, alignment principles and no-fuss fiber terminations to quickly handle the most common requirements for joining two fibers.

FB139-ND **$9.35**

Description	Reverse Voltage VR	Power Dissipation PTOT TA=25°C	Forward Current DC IF	Rise/Fall Time tr,tf	Typical Photo-sensitivity PEAK	Typical Output Power Coupled*	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Plastic Fiber Optic Infrared LED	3.0V	100mW	50mA	1.0/1.0 µs	950nm	100µW	FB118-ND	3.48	IF-E91A
Plastic Fiber Optic 100 Mbps Infrared LED	3.0V	60mW	60mA	7.0/7.0 ns	870nm	300µW	FB134-ND◆	5.25	IF-E91D
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.5/0.5 µs	430nm	25µW	FB125-ND◆	14.38	IF-E92A
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.6/0.6 µs	470nm	75µW	FB126-ND◆	14.38	IF-E92B
Plastic Fiber Optic Green LED	5.0V	60mW	35mA	3.5/16 ns	530nm	75µW	FB127-ND◆	10.63	IF-E93
Plastic Fiber Optic Red LED	5.0V	60mW	35mA	0.1/0.1 µs	660nm	<50µW	FB128-ND◆	4.88	IF-E96
Plastic Fiber Optic Super-Bright LED	5.0V	100mW	40mA	0.5/0.5 µs	660nm	<100µW	FB129-ND◆	6.50	IF-E97
Plastic Fiber Optic 50 Mbps Red LED	5.0V	100mW	40mA	8.0/8.0 ns	650nm	>100µW	FB135-ND◆	14.00	IF-E98
Plastic Fiber Optic 155 Mbps Red LED	5.0V	100mW	40mA	—	650nm	-1.5µW	FB136-ND	37.50	IF-E99

◆ ***RoHS Compliant*** ***** Into plastic fiber (1mm core diameter). Distance lens to fiber <0.1 mm, 10 cm polished fiber, IF = 10mA.

Description	Rise/Fall Time tr, tf	Total Capacitance CT	Dark Current (VR=30 Volts, EE=0) ID	Reverse Breakdown Voltage B(BR)R	Max. Photo-sensitivity PEAK	Power Dissipation PTOT	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Active Photodiode	5/5 ns	4pF	<60nA	60.0V	880nm	100mW	FB120-ND◆	4.18	IF-D91

Description	Rise/Fall Time tr,tf	Collector Emitter Voltage VCEO	Emitter Collector Voltage VECO	Collector Current IC	Collector Peak Current ICM t=1ms	Max. Photo–sensitivity PEAK	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Active Phototransister	20/20 µs	30.0V	5.0V	50mA	100mA	870nm	FB121-ND◆	3.65	IF-D92
Active Photodarlington	5/2.5 ms	15.0V	5.0V	50mA	100mA	850nm	FB122-ND◆	5.65	IF-D93

Description	Rise/Fall Time tr,tf	Supply Voltages VS	Voltage@Output Lead	Propagation Delay Time tP	Max. Photo-sensitivity PEAK	Power Dissipation PTOT	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Photologic Detector with Totem-Pole Output	70/70 ns	18.0V	—	8 µs	800nm	100mW	FB123-ND	6.55	IF-D95T
Photologic Detector with Open Collector Output	0.1/0.1 µs	18.0V	35.0V	8 µs	800nm	100mW	FB124-ND◆	6.55	IF-D95OC
Photologic Detector with Open Collector Output	—	15.0V	15.0V	140/110 ns	850nm	40mW	FB142-ND◆	10.63	IF-D96F
Photologic Detector with Totem-Pole Output	0.1/0.1 µs	7.0V	—	12 ns	800nm	100mW	FB133-ND◆	18.75	IF-D97
Photologic Detector with Totem-Pole Output	3/3 ns	7.0V	3.4V	3.5 ns	1050nm	250mW	FB137-ND	31.00	IF-D98

Fiber Dia. (mm)	Description	Digi-Key Part No.	Note: X in Part No. = Meter Per Roll Price (Meter) 1	10	25	50	100	250	500
1 x 1	SH4001 Super ESKA™ Fiber Optic Cable, 2.2mm Dia. Jacket	FB140-X-ND◆	1.82	16.94	39.33	76.23	145.20	302.50	314.60
1 x 1	GH4001 ESKA Premier High Temp Fiber Cable 2.2mm Dia. Jacket	FB143-X-ND◆	2.15	20.02	46.48	90.09	171.60	357.50	371.80
1 x 2	SH4002 Super ESKA™ Fiber Optic Cable, 2.2mm Dia. Jacket	FB141-X-ND◆	1.70	49.71	115.40	223.70	426.10	887.70	923.21
1 x 2	GH4002 ESKA Premier High Temp Fiber Cable 2.2mm Dia. Jacket	FB144-X-ND◆	4.42	41.27	95.84	185.72	353.76	737.00	766.48

◆ ***RoHS Compliant***

ON-SHORE TECHNOLOGY, INC.

Pluggable Terminal Blocks and Pin Headers

Terminal Blocks: • **Hole Diameter:** 1.3mm • **Voltage:** 250V • **Current:** 16A • **Temperature:** -30°C ~ 120°C • **Plating:** BeCu • **Wire Size:** 14-22AWG • **Flame Class:** 94V-0 **Pin Headers:** • **Spacing:** 5mm • **Rated Voltage:** 300V (250V for ED2673-ND and ED2674-ND) • **Rated Current:** 10A • **Terminal Plating:** Tin

Fig. 1

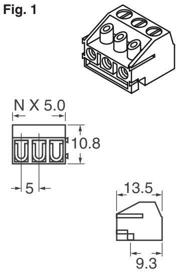

Fig. 2

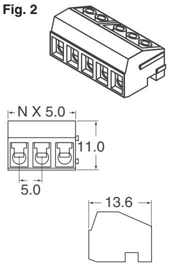

Fig. 3

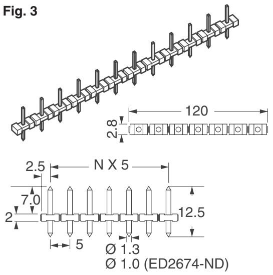

Fig.	No. of Pos.	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
Pluggable Terminal Blocks					
1	2	ED1613-ND	.76	6.86	61.00
	3	ED1614-ND	1.14	10.24	91.00
	4	ED2214-ND	1.53	13.77	122.40
	5	ED2215-ND	1.91	17.17	152.60
	6	ED2216-ND	2.29	20.61	183.20
	7	ED2217-ND	2.67	24.05	213.80
	10	ED2218-ND	3.82	34.38	305.60
	12	ED2219-ND	4.59	41.27	366.80
2	2	ED2655-ND	.34	3.02	26.80
	3	ED2656-ND	.51	4.55	40.40
	4	ED2657-ND	.67	6.05	53.80
	5	ED2658-ND	.84	7.56	67.20
	6	ED2659-ND	1.01	9.07	80.60
	7	ED2660-ND	1.18	10.58	94.00
	8	ED2661-ND	1.35	12.11	107.60
	10	ED2662-ND	1.68	15.12	134.40
	12	ED2663-ND	2.10	18.90	168.00
Pin Headers					
3	2	ED1660-ND	.36	3.22	26.53
	3	ED1661-ND	.52	4.65	38.32
	4	ED1662-ND	.68	6.08	50.11
3	5	ED1663-ND	.84	7.52	61.90
	6	ED1664-ND	1.00	8.95	73.68
	7	ED1665-ND	1.16	10.38	85.47
	8	ED1666-ND	1.32	11.81	97.26
	9	ED1667-ND	1.48	13.24	109.05
	10	ED1668-ND	1.64	14.67	120.84
	11	ED1669-ND	1.80	16.11	132.63
	12	ED1670-ND	1.96	17.54	144.42
	13	ED1671-ND	2.12	18.97	156.21
	14	ED1672-ND	2.28	20.40	168.00
	15	ED1673-ND	2.44	21.83	179.79
	16	ED1674-ND	2.60	23.26	191.58
	17	ED1675-ND	2.76	24.69	203.37
	18	ED1676-ND	2.92	26.13	215.16
	19	ED1677-ND	3.08	27.56	226.95
	20	ED1678-ND	3.24	28.99	238.74
	21	ED1679-ND	3.40	30.42	250.53
	22	ED1680-ND	3.56	31.85	262.32
	23	ED1681-ND	3.72	33.28	274.10
	24	ED1682-ND	3.08	27.72	246.40
	24	ED2673-ND	1.68	15.12	134.40
	24	ED2674-ND	1.68	15.12	134.40

Terminal Blocks

UL# E101811, 86ME2081 CSA# 068503X0000

Specifications: • **Rated Currents:** 10A/15A/16A • **Insulator:** PA 6 GV/PBTP and PBT • **Temperature Range:** -30°C ~ 105°C • **Flame Class:** 94V-0

Fig. 1 Cable Inlet: Front Current: 16A

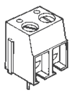

Fig. 2 Cable Inlet: Top Current: 16A

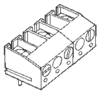

Fig. 3 Cable Inlet: 45° Current: 16A

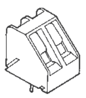

Fig. 4 Double Terminal Block Current: 16A

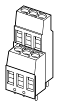

Fig. 5 Vertical Current: 16A

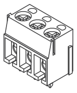

Fig. 6 Horizontal Current: 16A

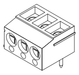

Fig. 7 Vertical Insulator: PBT Current: 16A

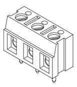

Fig. 8 Vertical Current: 16A

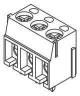

Fig. 9 Horizontal Current: 16A

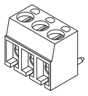

Fig. 10 Vertical Current: 16A

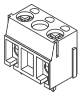

Fig. 11 Horizontal Current: 16A

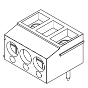

Fig. 12 Vertical Current: 16A

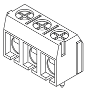

Fig. 13 Vertical Current: 16A

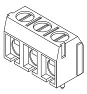

Fig. 14 Horizontal Current: 16A

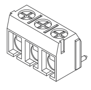

Fig. 15 Horizontal Current: 10A

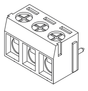

Fig. 16 Vertical Current: 10A

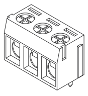

Fig. 17 Vertical Current: 16A

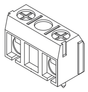

Fig. 18 Horizontal Current: 16A

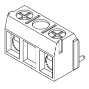

Fig. 19 Horizontal Current: 10A

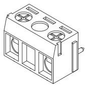

Fig. 20 Vertical Current: 15A

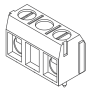

Fig. 21 Vertical Current: 10A

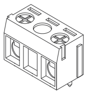

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig.	No. of Pos.	Lead Spac-ing (mm)	Rated Volt. (V-) VDE 0110	Ter-minal Plat-ing	Block Length (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
1	2	5.0	250	Nickel	10	ED1631-ND◆	.88	7.92	70.40
	2	5.08	300	Tin	10.16	ED1643-ND◆	.75	6.71	59.60
	2	7.5	380	Tin	15	ED1605-ND◆	.65	5.83	51.80
	2	10.0	500	Tin	15	ED1615-ND◆	.65	5.83	51.80
	2	10.0	250	Tin	15	ED1627-ND◆	.65	5.83	51.80
	2	10.0	500	Nickel	15	ED1633-ND◆	.99	8.87	78.80
	3	5.0	250	Nickel	15	ED1632-ND◆	1.32	11.90	105.80
	3	5.08	300	Tin	15.24	ED1644-ND◆	1.12	10.08	89.60
	3	7.5	380	Tin	22.5	ED1606-ND◆	.97	8.73	77.60
	3	10.0	500	Tin	25	ED1616-ND◆	.97	8.73	77.60
	3	10.0	250	Tin	25	ED1628-ND◆	.97	8.73	77.60
	3	10.0	500	Nickel	25	ED1634-ND◆	1.48	13.32	118.40
2	2	5.0	250	Tin	10	ED1603-ND◆	.65	5.83	51.80
	2	5.0	125	Tin	10	ED1625-ND◆	.65	5.83	51.80
	2	5.08	250	Tin	10.16	ED1611-ND◆	.65	5.83	51.80
	2	7.5	380	Tin	15	ED1607-ND◆	.74	6.66	59.20
	2	10.0	250	Tin	15	ED1617-ND	.74	6.66	59.20
	2	10.0	250	Tin	15	ED1629-ND	.74	6.66	59.20
	3	5.0	250	Tin	15	ED1604-ND◆	.97	8.73	77.60
	3	5.0	125	Tin	15	ED1626-ND◆	.97	8.73	77.60
	3	5.08	250	Tin	15.25	ED1612-ND◆	.97	8.73	77.60
	3	7.5	380	Tin	22.5	ED1608-ND	1.11	9.97	88.60
	3	10.0	250	Tin	25	ED1618-ND	1.11	9.97	88.60
	3	10.0	250	Tin	25	ED1630-ND	1.11	9.97	88.60
3	2	5.0	250	Nickel	10	ED1619-ND◆	.72	6.48	57.60
	2	10.0	250	Nickel	15	ED1621-ND◆	.93	8.33	74.00
	3	5.0	250	Nickel	15	ED1620-ND◆	1.08	9.70	86.20
	3	10.0	250	Nickel	25	ED1622-ND◆	1.39	12.47	110.80
4	2	5.0	300	Tin	10	ED1653-ND◆	1.80	16.20	144.00
	3	5.0	300	Tin	15	ED1654-ND◆	2.70	24.30	216.00
5	2	5.0	250	Tin	10	ED2561-ND◆	.28	2.52	22.40
	3	5.0	250	Tin	15	ED2562-ND◆	.42	3.78	33.60
	4	5.0	250	Tin	20	ED2563-ND◆	.56	5.04	44.80
	5	5.0	250	Tin	25	ED2565-ND	.70	6.30	56.00
	6	5.0	250	Tin	30	ED2566-ND◆	.84	7.56	67.20
	8	5.0	250	Tin	40	ED2567-ND	1.26	11.34	100.80
	10	5.0	250	Tin	50	ED2568-ND◆	1.40	12.60	112.00
	12	5.0	250	Tin	60	ED2569-ND◆	1.68	15.12	134.40
6	2	5.0	250	Brass	10	ED2570-ND◆	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2571-ND◆	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2572-ND◆	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2573-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2574-ND◆	1.01	9.07	80.60
	8	5.0	250	Brass	40	ED2575-ND	1.35	12.11	107.60
	10	5.0	250	Brass	50	ED2576-ND	1.68	15.12	134.40
	12	5.0	250	Brass	60	ED2577-ND	2.02	18.14	161.20
7	2	7.5	250	CuZn	15	ED2578-ND	.26	2.34	20.80
	3	7.5	250	CuZn	22.5	ED2579-ND	.39	3.51	31.20
8	2	5.08	250	Brass	10.16	ED2580-ND◆	.28	2.52	22.40
	3	5.08	250	Brass	15.24	ED2581-ND◆	.42	3.78	33.60
	4	5.08	250	Brass	20.32	ED2582-ND◆	.56	5.04	44.80
	5	5.08	250	Brass	25.4	ED2583-ND	.70	6.30	56.00
	6	5.08	250	Brass	30.48	ED2584-ND◆	.84	7.56	67.20
	7	5.08	250	Brass	35.56	ED2585-ND	.98	8.82	78.40
	8	5.08	250	Brass	40.64	ED2586-ND◆	1.12	10.08	89.60
	10	5.08	250	Brass	50.8	ED2587-ND◆	1.40	12.60	112.00
	12	5.08	250	Brass	60.92	ED2588-ND	1.68	15.12	134.40
9	2	5.08	250	Brass	10.16	ED2589-ND	.34	3.02	26.80
	3	5.08	250	Brass	15.24	ED2590-ND	.51	4.55	40.40
	4	5.08	250	Brass	20.32	ED2591-ND	.67	6.05	53.80
	6	5.08	250	Brass	30.48	ED2592-ND	1.01	9.07	80.60
	8	5.08	250	Brass	40.64	ED2593-ND	1.35	12.11	107.60
	10	5.08	250	Brass	50.8	ED2594-ND◆	1.68	15.12	134.40
	12	5.08	250	Brass	60.96	ED2595-ND	2.02	18.14	161.20
10	2	10.0	250	Tin	15	ED2596-ND◆	.37	3.29	29.20
	3	10.0	250	Tin	25	ED2597-ND◆	.55	4.91	43.60
11	2	10.0	250	Brass	15	ED2598-ND	.39	3.53	31.40
	3	10.0	250	Brass	25	ED2599-ND◆	.59	5.29	47.00
12	2	5.0	250	Brass	10	ED2600-ND◆	.28	2.52	22.40
	3	5.0	250	Brass	15	ED2601-ND◆	.42	3.78	33.60
	4	5.0	250	Brass	20	ED2602-ND◆	.56	5.04	44.80
	5	5.0	250	Brass	25	ED2603-ND	.70	6.30	56.00
	6	5.0	250	Brass	30	ED2604-ND	.84	7.56	67.20
	7	5.0	250	Brass	35	ED2605-ND	.98	8.82	78.40
	8	5.0	250	Brass	40	ED2606-ND	1.12	10.08	89.60
	10	5.0	250	Brass	50	ED2607-ND	1.40	12.60	112.00
	12	5.0	250	Brass	60	ED2608-ND	1.68	15.12	134.40
13	2	5.08	300	Brass	10.16	ED2609-ND◆	.28	2.52	22.40
	3	5.08	300	Brass	15.24	ED2610-ND◆	.42	3.78	33.60
	4	5.08	300	Brass	20.32	ED2611-ND◆	.56	5.04	44.80
	5	5.08	300	Brass	25.4	ED2612-ND◆	.70	6.30	56.00
	6	5.08	300	Brass	30.48	ED2613-ND◆	.84	7.56	67.20
	7	5.08	300	Brass	35.56	ED2614-ND	.98	8.82	78.40
	8	5.08	300	Brass	40.64	ED2615-ND◆	1.12	10.08	89.60
	10	5.08	300	Brass	50.8	ED2616-ND◆	1.40	12.60	112.00
	12	5.08	300	Brass	60.96	ED2617-ND	1.68	15.12	134.40
14	2	5.0	250	Brass	10	ED2618-ND	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2619-ND	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2620-ND◆	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2621-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2622-ND	1.01	9.07	80.60
15	2	3.5	125	Brass	7	ED2623-ND◆	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2624-ND	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2625-ND	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2626-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2627-ND	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2628-ND	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2629-ND	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2630-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2631-ND	1.68	15.12	134.40
	12	3.5	125	Brass	42	ED2632-ND◆	2.02	18.14	161.20
	14	3.5	125	Brass	49	ED2633-ND	2.35	21.17	188.20
	16	3.5	125	Brass	56	ED2634-ND	2.69	24.19	215.00
16	2	3.5	125	Brass	7	ED2635-ND◆	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2636-ND◆	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2637-ND◆	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2638-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2639-ND◆	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2640-ND◆	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2641-ND◆	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2642-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2643-ND◆	1.68	15.12	134.40
	12	3.5	125	Brass	49	ED2644-ND	2.02	18.14	161.20
	14	3.5	125	Brass	56	ED2645-ND	2.35	21.17	188.20
	16	3.5	125	Brass	63	ED2646-ND	2.69	24.19	215.00
17	2	10.0	250	Brass	15	ED2647-ND	.34	3.02	26.80
	3	10.0	250	Brass	25	ED2648-ND◆	.51	4.55	40.40
18	2	10.0	250	Brass	15	ED2649-ND	.37	3.29	29.20
	3	10.0	250	Brass	25	ED2650-ND	.55	4.91	43.60
19	2	7.0	125	Brass	3.5	ED2651-ND	.37	3.33	29.60
	3	7.0	125	Brass	10.5	ED2652-ND	.56	5.00	44.40
20	2	10.16	300	Brass	15.24	ED2653-ND	.34	3.02	26.80
	3	10.16	300	Brass	25.4	ED2654-ND	.51	4.55	40.40
21	2	7.0	125	Brass	10.5	ED2666-ND	.34	3.02	26.80
	3	7.0	125	Brass	17.5	ED2667-ND	.51	4.55	40.40
	4	7.0	125	Brass	24.5	ED2668-ND	.67	6.05	53.80
	5	7.0	125	Brass	31.5	ED2669-ND	.84	7.56	67.20
	6	7.0	125	Brass	38.5	ED2670-ND	1.01	9.07	80.60
	7	7.0	125	Brass	45.5	ED2671-ND	1.18	10.58	94.00
	8	7.0	125	Brass	52.5	ED2672-ND	1.35	12.11	107.60

◆ *RoHS Compliant*

Terminal Blocks

UL# E101811, 86ME2081
CSA# 068503X0000

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig. 1

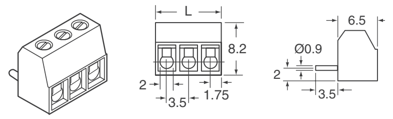

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 2

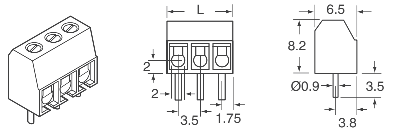

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 3

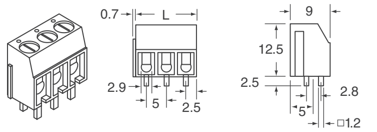

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 4

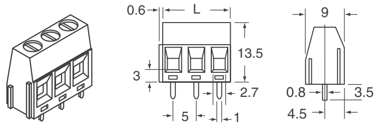

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 5

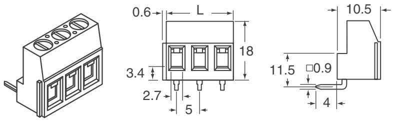

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 6

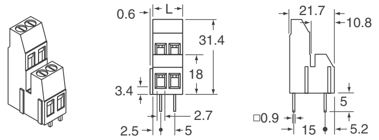

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 7

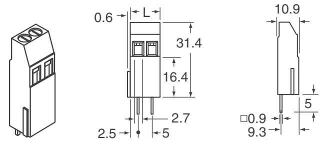

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 8

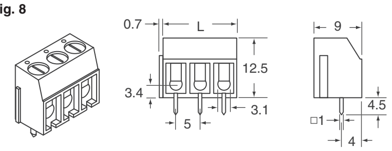

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 9

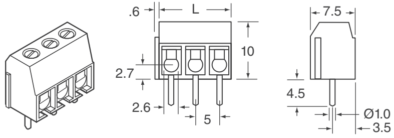

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 10

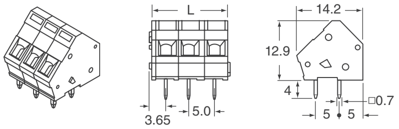

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 11

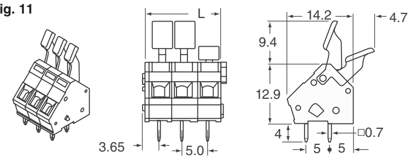

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 12

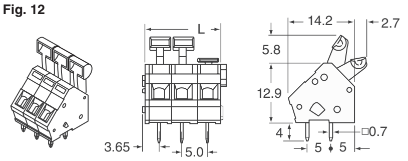

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig.	No. of Pos.	Block Length (L) (mm)	Digi-Key Part No.	Price Each 1	10	100
3.5mm Lead Spacing - Terminal Blocks						
1	2	7.0	ED1501-ND◆	.49	.45	.40
	3	10.5	ED1502-ND◆	.74	.67	.60
	4	14.0	ED1503-ND◆	.99	.89	.79
	5	17.5	ED1504-ND◆	1.23	1.11	.99
	6	21.0	ED1505-ND◆	1.48	1.34	1.19
	7	24.5	ED1506-ND◆	1.73	1.56	1.38
	8	28.0	ED1507-ND◆	1.97	1.78	1.58
	9	31.5	ED1508-ND◆	2.22	2.00	1.78
	10	35.0	ED1509-ND	2.47	2.22	1.98
	11	38.5	ED1510-ND	2.71	2.45	2.17
	12	42.0	ED1511-ND◆	2.96	2.67	2.37
	14	49.0	ED1512-ND	3.45	3.11	2.76
	16	56.0	ED1513-ND ◆	3.94	3.55	3.16
2	2	7.0	ED1514-ND◆	.49	.45	.40
	3	10.5	ED1515-ND◆	.74	.67	.60
	4	14.0	ED1516-ND◆	.99	.89	.79
	5	17.5	ED1517-ND◆	1.23	1.11	.99
	6	21.0	ED1518-ND◆	1.48	1.34	1.19
	7	24.5	ED1519-ND◆	1.73	1.56	1.38
	8	28.0	ED1520-ND◆	1.97	1.78	1.58
	9	31.5	ED1521-ND◆	2.22	2.00	1.78
	10	35.0	ED1522-ND◆	2.47	2.22	1.98
	11	38.5	ED1523-ND◆	2.71	2.45	2.17
	12	42.0	ED1524-ND◆	2.96	2.67	2.37
	14	49.0	ED1525-ND◆	3.45	3.11	2.76
	16	56.0	ED1526-ND◆	3.94	3.55	3.16
5.0mm Lead Spacing - Terminal Blocks						
3	2	10.0	ED1556-ND◆	.88	.80	.71
	3	15.0	ED1557-ND◆	1.32	1.19	1.06
	4	20.0	ED1558-ND◆	1.76	1.59	1.41
	5	25.0	ED1559-ND◆	2.20	1.99	1.77
3	6	30.0	ED1560-ND◆	2.64	2.38	2.12
	7	35.0	ED1561-ND	3.08	2.78	2.47
	8	40.0	ED1562-ND	3.53	3.18	2.82
	9	45.0	ED1563-ND	3.96	3.57	3.17
	10	50.0	ED1564-ND◆	4.41	3.97	3.53
	11	55.0	ED1565-ND◆	4.85	4.37	3.88
	12	60.0	ED1566-ND	5.29	4.76	4.23
4	2	10.0	ED1930-ND◆	.75	.68	.60
	3	15.0	ED1931-ND◆	1.12	1.01	.90
5	2	10.0	ED1932-ND◆	1.08	.97	.87
	3	15.0	ED1933-ND◆	1.62	1.46	1.30
6	2	10.0	ED1578-ND	2.47	2.22	1.98
	4	20.0	ED1580-ND	4.93	4.44	3.95
	5	25.0	ED1581-ND	6.16	5.55	4.93
	6	30.0	ED1582-ND◆	7.39	6.66	5.92
	7	35.0	ED1583-ND	8.63	7.77	6.90
	8	40.0	ED1584-ND◆	9.86	8.87	7.89
	9	45.0	ED1585-ND	11.09	9.98	8.87
	10	50.0	ED1586-ND	12.32	11.09	9.86
	11	55.0	ED1587-ND	13.55	12.20	10.85
	12	60.0	ED1588-ND	14.79	13.31	11.83
7	2	10.0	ED1589-ND◆	1.51	1.36	1.21
	4	20.0	ED1591-ND◆	3.02	2.72	2.42
	6	30.0	ED1593-ND	4.53	4.08	3.63
	8	40.0	ED1595-ND	6.04	5.44	4.83
	10	50.0	ED1597-ND	7.55	6.80	6.04
	12	60.0	ED1599-ND	9.06	8.15	7.25
8	2	10.0	ED1601-ND◆	.46	.42	.37
	3	15.0	ED1602-ND◆	.70	.63	.56
	4	20.0	ED2233-ND◆	.94	.85	.75
	6	30.0	ED2234-ND◆	1.40	1.27	1.13
	8	40.0	ED2235-ND◆	1.87	1.69	1.50
	12	60.0	ED2236-ND◆	2.81	2.53	2.25
9	2	10.0	ED1623-ND◆	.46	.42	.37
	3	15.0	ED1624-ND◆	.69	.62	.55
	4	20.0	ED2221-ND◆	.91	.83	.73
	5	25.0	ED2222-ND◆	1.14	1.03	.91
	6	30.0	ED2223-ND◆	1.37	1.24	1.10
	7	35.0	ED2224-ND◆	1.60	1.44	1.28
	10	50.0	ED2225-ND◆	2.28	2.06	1.83
	12	60.0	ED2226-ND◆	2.74	2.47	2.19
10	2	10.0	ED2237-ND◆	.74	.67	.60
	3	15.0	ED2238-ND◆	1.11	1.00	.89
	4	20.0	ED2239-ND◆	1.48	1.34	1.19
	5	25.0	ED2240-ND◆	1.85	1.67	1.48
	6	30.0	ED2241-ND	2.22	2.00	1.78
	7	35.0	ED2242-ND◆	2.59	2.33	2.07
	8	40.0	ED2243-ND◆	2.96	2.67	2.37
	9	45.0	ED2244-ND	3.33	3.00	2.67
	10	50.0	ED2245-ND◆	3.70	3.33	2.96
	11	55.0	ED2246-ND◆	4.07	3.66	3.26
	12	60.0	ED2247-ND◆	4.44	4.00	3.55
11	2	10.0	ED2248-ND◆	.90	.81	.72
	3	15.0	ED2249-ND◆	1.34	1.21	1.08
	4	20.0	ED2250-ND◆	1.79	1.61	1.43
	5	25.0	ED2251-ND◆	2.23	2.01	1.79
	6	30.0	ED2252-ND◆	2.68	2.41	2.15
	7	35.0	ED2253-ND	3.13	2.82	2.51
	8	40.0	ED2254-ND◆	3.57	3.22	2.86
	9	45.0	ED2255-ND◆	4.02	3.62	3.22
	10	50.0	ED2256-ND◆	4.47	4.02	3.58
	11	55.0	ED2257-ND	4.91	4.43	3.93
	12	60.0	ED2258-ND◆	5.36	4.83	4.29
12	2	10.0	ED2259-ND◆	.90	.81	.72
	3	15.0	ED2260-ND◆	1.34	1.21	1.08

◆ ***RoHS Compliant***

(Continued)

Fig. 13

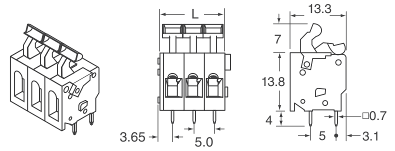

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 14

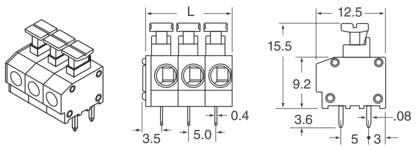

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 10A • Wire Size: 20-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 15

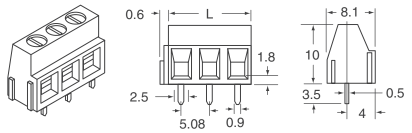

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 16

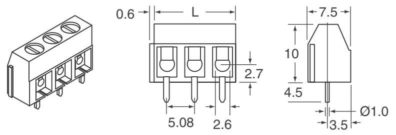

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 17

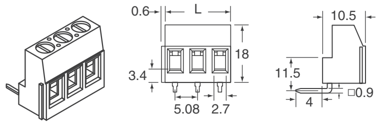

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 18

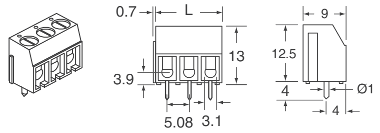

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 19

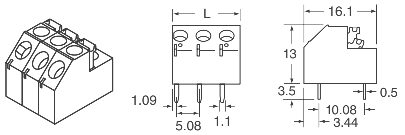

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-15AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 20

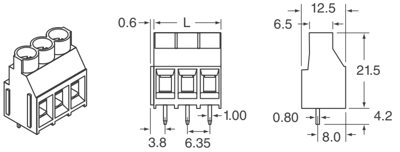

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temp.: -33°C/120°C • Flammability: UL 94V-O • Color: Green

Fig. 21

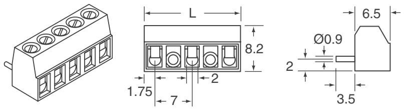

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 22

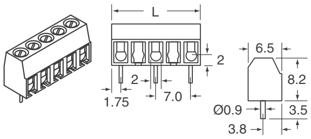

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 23

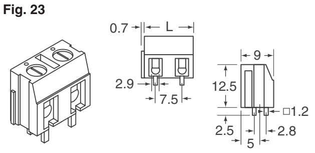

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 24

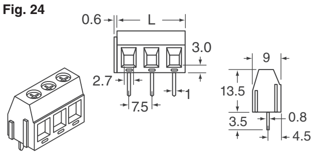

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 25

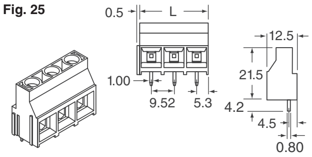

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig.	No. of Pos.	Block Length (L) (mm)	Digi-Key Part No.	Price Each		
				1	10	100
12	4	20.0	ED2261-ND◆	1.79	1.61	1.43
	5	25.0	ED2262-ND◆	2.23	2.01	1.79
	6	30.0	ED2263-ND◆	2.68	2.41	2.15
	7	35.0	ED2265-ND	3.13	2.82	2.51
	8	40.0	ED2266-ND◆	3.57	3.22	2.86
	9	45.0	ED2267-ND◆	4.02	3.62	3.22
	10	50.0	ED2268-ND◆	4.47	4.02	3.58
	11	55.0	ED2269-ND	4.91	4.43	3.93
	12	60.0	ED2270-ND◆	5.36	4.83	4.29
13	2	10.0	ED2293-ND◆	.83	.75	.67
	3	15.0	ED2294-ND◆	1.22	1.10	.98
	4	20.0	ED2295-ND	1.67	1.50	1.34
	5	25.0	ED2296-ND◆	2.08	1.88	1.67
	6	30.0	ED2297-ND◆	2.50	2.25	2.00
	7	35.0	ED2298-ND	2.91	2.62	2.33
	8	40.0	ED2299-ND◆	3.33	3.00	2.67
	9	45.0	ED2300-ND◆	3.74	3.37	3.00
	10	50.0	ED2301-ND	4.16	3.75	3.33
	11	55.0	ED2302-ND	4.57	4.12	3.66
	12	60.0	ED2303-ND◆	4.99	4.49	3.99
14	2	10.0	ED2315-ND◆	.90	.81	.72
	3	15.0	ED2316-ND◆	1.34	1.21	1.08
	4	20.0	ED2317-ND◆	1.79	1.61	1.43
	5	25.0	ED2318-ND	2.23	2.01	1.79
	6	30.0	ED2319-ND◆	2.68	2.41	2.15
	7	35.0	ED2320-ND	3.13	2.82	2.51
	8	40.0	ED2321-ND◆	3.57	3.22	2.86
	9	45.0	ED2322-ND	4.02	3.62	3.22
	10	50.0	ED2323-ND◆	4.47	4.02	3.58
	11	55.0	ED2324-ND	4.91	4.43	3.93
	12	60.0	ED2325-ND	5.36	4.83	4.29
5.08mm Lead Spacing - Terminal Blocks						
15	2	10.16	ED1973-ND◆	.74	.67	.60
	3	15.24	ED1974-ND◆	1.11	1.00	.89
16	2	10.16	ED1975-ND◆	.49	.45	.40
	3	15.24	ED1976-ND◆	.74	.67	.60
17	2	10.16	ED1977-ND	1.08	.97	.87
	3	15.24	ED1978-ND	1.62	1.46	1.30
18	2	10.16	ED1609-ND◆	.46	.42	.37
	3	15.24	ED1610-ND◆	.68	.62	.55
	4	20.32	ED2227-ND◆	.91	.83	.73
	5	25.40	ED2228-ND◆	1.14	1.03	.91
	6	30.48	ED2229-ND◆	1.37	1.24	1.10
	7	35.56	ED2230-ND◆	1.60	1.44	1.28
	10	50.80	ED2231-ND◆	2.28	2.06	1.83
	12	60.96	ED2232-ND◆	2.74	2.47	2.19
19	2	10.16	ED2326-ND◆	.96	.86	.77
	3	15.24	ED2327-ND◆	1.43	1.29	1.15
	4	20.32	ED2328-ND◆	1.91	1.72	1.53
	5	25.40	ED2329-ND◆	2.39	2.15	1.91
	6	30.48	ED2330-ND	2.87	2.58	2.30
	7	35.56	ED2331-ND◆	3.34	3.01	2.68
6.35mm Lead Spacing - Terminal Blocks — RoHS Compliant						
20	2	12.70	ED2675-ND	.55	.50	.44
	3	19.05	ED2676-ND	.83	.75	.66
7.0mm Lead Spacing - Terminal Blocks						
21	2	14.0	ED1527-ND◆	.54	.49	.44
	3	21.0	ED1528-ND◆	.82	.74	.66
	4	28.0	ED1529-ND◆	1.08	.98	.87
	5	35.0	ED1530-ND◆	1.36	1.22	1.09
	7	49.0	ED1532-ND◆	1.90	1.71	1.52
	8	56.0	ED1533-ND◆	2.17	1.96	1.74
22	2	14.0	ED1534-ND◆	.54	.49	.44
	3	21.0	ED1535-ND	.82	.74	.66
	4	28.0	ED1536-ND◆	1.08	.98	.87
	5	35.0	ED1537-ND◆	1.36	1.22	1.09
	6	42.0	ED1538-ND◆	1.63	1.47	1.30
	7	49.0	ED1539-ND	1.90	1.71	1.52
	8	56.0	ED1540-ND◆	2.17	1.96	1.74
7.5mm Lead Spacing - Terminal Blocks						
23	2	15.0	ED1567-ND◆	.93	.84	.74
	3	22.5	ED1568-ND◆	1.39	1.25	1.11
	4	30.0	ED1569-ND◆	1.85	1.67	1.48
	5	37.5	ED1570-ND◆	2.31	2.08	1.85
	6	45.0	ED1571-ND	2.77	2.50	2.22
	7	52.5	ED1572-ND	3.24	2.92	2.59
	8	60.0	ED1573-ND	3.70	3.33	2.96
	9	67.5	ED1574-ND◆	4.16	3.75	3.33
	10	75.0	ED1575-ND	4.62	4.16	3.70
	11	82.5	ED1576-ND	5.08	4.58	4.07
	12	90.0	ED1577-ND	5.55	5.00	4.44
24	2	15.0	ED2354-ND◆	.83	.75	.67
	3	22.5	ED2355-ND◆	1.25	1.13	1.00
	4	30.0	ED2356-ND◆	1.67	1.50	1.34
	5	37.5	ED2357-ND◆	2.08	1.88	1.67
	6	45.0	ED2358-ND◆	2.50	2.25	2.00
	7	52.5	ED2359-ND◆	2.91	2.62	2.33
	8	60.0	ED2360-ND◆	3.33	3.00	2.67
	9	67.5	ED2361-ND◆	3.74	3.37	3.00
	10	75.0	ED2362-ND◆	4.16	3.75	3.33
	11	82.5	ED2363-ND	4.57	4.12	3.66
	12	90.0	ED2364-ND◆	4.99	4.49	3.99
9.52mm Lead Spacing - Terminal Blocks — RoHS Compliant						
25	2	19.04	ED2677-ND	.60	.54	.48
	3	28.56	ED2678-ND	.90	.81	.72

◆ *RoHS Compliant*

Two-Piece Terminal Blocks

Housings: PCB Mini-Terminal Block housings are precision molded from self-extinguishing 6.6 polyimide (nylon) molding material. All housings have funnel shaped wire entry guides to prevent wire fraying and minimize misconnections.

Fig. 1

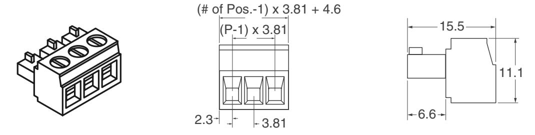

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 2

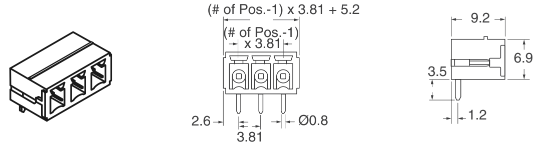

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 3

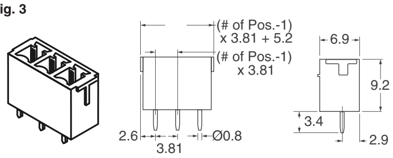

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 4

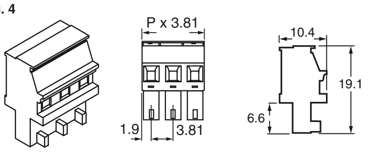

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 5

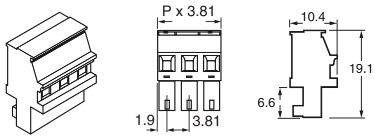

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 6

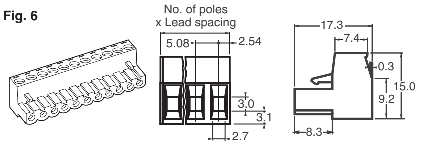

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 7

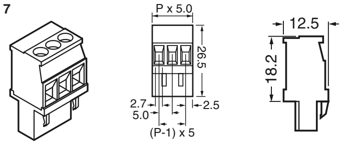

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 8

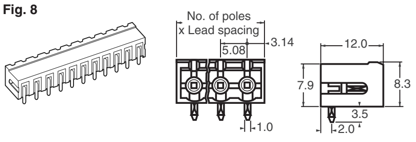

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
3.81mm Lead Spacing — Plugs — RoHS Compliant						
1	2	8.41	ED1960-ND	1.42	1.28	1.14
	3	12.22	ED1961-ND	2.13	1.92	1.70
	4	16.03	ED1962-ND	2.83	2.55	2.27
	5	19.84	ED1963-ND	3.54	3.19	2.84
	6	23.65	ED1964-ND	4.25	3.83	3.41
	7	27.46	ED1965-ND	4.96	4.47	3.97
	8	31.27	ED1966-ND	5.67	5.11	4.54
	9	35.08	ED1967-ND	6.38	5.74	5.10
	10	38.89	ED1968-ND	7.09	6.38	5.67
	11	42.70	ED1969-ND	7.79	7.02	6.24
	12	46.51	ED1970-ND	8.50	7.65	6.80
	14	54.13	ED1971-ND	9.92	8.93	7.94
	16	61.75	ED1972-ND	11.34	10.21	9.07
3.81mm Lead Spacing — Horizontal Header — RoHS Compliant						
2	2	9.01	ED1934-ND	.62	.56	.50
	3	12.82	ED1935-ND	.93	.84	.74
	4	16.63	ED1936-ND	1.23	1.11	.99
	5	20.44	ED1937-ND	1.54	1.39	1.24
	6	24.25	ED1938-ND	1.85	1.67	1.48
	7	28.06	ED1939-ND	2.16	1.94	1.73
	8	31.87	ED1940-ND	2.47	2.22	1.98
	9	35.68	ED1941-ND	2.77	2.50	2.22
	10	39.49	ED1942-ND	3.08	2.78	2.47
	11	43.30	ED1943-ND	3.39	3.05	2.71
	12	47.11	ED1944-ND	3.70	3.33	2.96
	14	54.73	ED1945-ND	4.31	3.89	3.45
	16	63.35	ED1946-ND	4.93	4.44	3.95
3.81mm Lead Spacing — Vertical Header — RoHS Compliant						
3	2	9.01	ED1947-ND	.62	.56	.50
	3	12.82	ED1948-ND	.93	.84	.74
	4	16.63	ED1949-ND	1.23	1.11	.99
	5	20.44	ED1950-ND	1.54	1.39	1.24
	6	24.25	ED1951-ND	1.85	1.67	1.48
	7	28.06	ED1952-ND	2.16	1.94	1.73
	8	31.87	ED1953-ND	2.47	2.22	1.98
	9	35.68	ED1954-ND	2.77	2.50	2.22
	10	39.49	ED1955-ND	3.08	2.78	2.47
	11	43.30	ED1956-ND	3.39	3.05	2.71
	12	47.11	ED1957-ND	3.70	3.33	2.96
	14	54.73	ED1958-ND	4.31	3.89	3.45
	16	63.35	ED1959-ND	4.93	4.44	3.95
3.81mm Lead Spacing — Plugs						
4	2	7.62	ED2454-ND◆	1.11	1.00	.89
	3	11.43	ED2455-ND◆	1.67	1.50	1.34
	4	15.24	ED2456-ND◆	2.22	2.00	1.78
	5	19.05	ED2457-ND◆	2.77	2.50	2.22
	6	22.86	ED2458-ND◆	3.33	3.00	2.67
	7	26.67	ED2459-ND	3.88	3.50	3.11
	8	30.48	ED2460-ND◆	4.44	4.00	3.55
	9	34.29	ED2461-ND◆	4.99	4.49	3.99
	10	38.10	ED2462-ND◆	5.55	5.00	4.44
	12	45.72	ED2463-ND◆	6.65	5.99	5.33
	14	53.34	ED2464-ND◆	7.76	6.99	6.21
	16	60.96	ED2465-ND◆	8.87	7.99	7.10
5	2	7.62	ED2466-ND◆	1.11	1.00	.89
	3	11.43	ED2467-ND◆	1.67	1.50	1.34
	4	15.24	ED2468-ND◆	2.22	2.00	1.78
	5	19.05	ED2469-ND◆	2.77	2.50	2.22
	6	22.86	ED2470-ND◆	3.33	3.00	2.67
	7	26.67	ED2471-ND◆	3.88	3.50	3.11
	8	30.48	ED2472-ND◆	4.44	4.00	3.55
	9	34.29	ED2473-ND◆	4.99	4.49	3.99
	10	38.10	ED2474-ND◆	5.55	5.00	4.44
	12	45.72	ED2475-ND◆	6.65	5.99	5.33
	14	53.34	ED2476-ND	7.76	6.99	6.21
	16	60.96	ED2477-ND◆	8.87	7.99	7.10
5mm Lead Spacing — Plugs — RoHS Compliant						
6	2	10	ED1701-ND§	1.08	.98	.87
	3	15	ED1702-ND§	1.63	1.47	1.31
	4	20	ED1703-ND§	2.17	1.96	1.74
	5	25	ED1704-ND§	2.71	2.45	2.17
	6	30	ED1705-ND§	3.25	2.93	2.61
	7	35	ED1706-ND§	3.79	3.42	3.04
	8	40	ED1707-ND§	4.34	3.91	3.47
	9	45	ED1708-ND§	4.88	4.39	3.91
	10	50	ED1709-ND§	5.42	4.88	4.34
	11	55	ED1710-ND§	5.96	5.37	4.77
	12	60	ED1711-ND§	6.51	5.86	5.21
	14	70	ED1712-ND§	7.59	6.84	6.08
	16	80	ED1713-ND§	8.67	7.81	6.94
	18	90	ED1714-ND§	9.76	8.79	7.81
	20	100	ED1715-ND§	10.84	9.76	8.68
	24	120	ED1716-ND§	13.01	11.71	10.41
5mm Lead Spacing — Plugs						
7	2	10	ED2376-ND◆	1.76	1.59	1.41
	3	15	ED2377-ND◆	2.64	2.38	2.12
	4	20	ED2378-ND◆	3.53	3.18	2.82
	5	25	ED2379-ND◆	4.41	3.97	3.53
	6	30	ED2380-ND◆	5.29	4.76	4.23
	7	35	ED2381-ND◆	6.17	5.55	4.94
	8	40	ED2382-ND◆	7.05	6.35	5.64
	9	45	ED2383-ND	7.93	7.14	6.35
	10	50	ED2384-ND◆	8.81	7.93	7.05
	12	60	ED2385-ND	10.57	9.52	8.46
	14	70	ED2386-ND◆	12.34	11.11	9.87
	16	80	ED2387-ND◆	14.10	12.69	11.28
5mm Lead Spacing — Horizontal Headers — RoHS Compliant						
8	2	10	ED1801-ND†	.41	.37	.33
	3	15	ED1802-ND†	.61	.55	.49
	4	20	ED1803-ND†	.82	.74	.66
	5	25	ED1804-ND†	1.02	.92	.82
	6	30	ED1805-ND†	1.22	1.10	.98
	7	35	ED1806-ND†	1.42	1.28	1.14
	8	40	ED1807-ND†	1.63	1.47	1.31
	9	45	ED1808-ND†	1.83	1.65	1.47
	10	50	ED1809-ND†	2.03	1.83	1.63
	11	55	ED1810-ND†	2.24	2.02	1.79
	12	60	ED1811-ND†	2.44	2.20	1.96
	14	70	ED1812-ND†	2.85	2.57	2.28
	16	80	ED1813-ND†	3.25	2.93	2.61
	18	90	ED1814-ND†	3.66	3.30	2.93
	20	100	ED1815-ND†	4.07	3.66	3.26
	24	120	ED1816-ND†	4.88	4.39	3.91
5mm Lead Spacing — Vert. Headers‡						
9	2	10	ED1833-ND◆†	.41	.37	.33
	3	15	ED1834-ND◆†	.61	.55	.49
	4	20	ED1835-ND◆†	.82	.74	.66
	5	25	ED1836-ND◆†	1.02	.92	.82
	6	30	ED1837-ND◆†	1.22	1.10	.98
	7	35	ED1838-ND◆†	1.42	1.28	1.14
	8	40	ED1839-ND◆†	1.63	1.47	1.31
	9	45	ED1840-ND◆†	1.83	1.65	1.47
	10	50	ED1841-ND◆†	2.03	1.83	1.63
	11	55	ED1842-ND◆†	2.24	2.02	1.79
	12	60	ED1843-ND◆†	2.44	2.20	1.96
	14	70	ED1844-ND◆†	2.85	2.57	2.28
	16	80	ED1845-ND◆†	3.25	2.93	2.61
	18	90	ED1846-ND◆†	3.66	3.30	2.93
	20	100	ED1847-ND◆†	4.07	3.66	3.26
	24	120	ED1848-ND†	4.88	4.39	3.91
5.08mm Lead Spacing — Plugs — RoHS Compliant						
6	2	10.16	ED1717-ND§	1.08	.98	.87
	3	15.24	ED1718-ND§	1.63	1.47	1.31
	4	20.32	ED1719-ND§	2.17	1.96	1.74
	5	25.40	ED1720-ND§	2.71	2.45	2.17
	6	30.48	ED1721-ND§	3.25	2.93	2.61
	7	35.56	ED1722-ND§	3.79	3.42	3.04
	8	40.64	ED1723-ND§	4.34	3.91	3.47
	9	45.72	ED1724-ND§	4.88	4.39	3.91
	10	50.80	ED1725-ND§	5.42	4.88	4.34
	11	55.88	ED1726-ND§	5.96	5.37	4.77
	12	60.96	ED1727-ND§	6.51	5.86	5.21
	14	71.12	ED1728-ND§	7.59	6.84	6.08
	16	81.28	ED1729-ND§	8.67	7.81	6.94
	18	91.44	ED1730-ND§	9.76	8.79	7.81
	20	101.60	ED1731-ND§	10.84	9.76	8.68
	24	121.92	ED1732-ND§	13.01	11.71	10.41
10	2	20.32	ED2409-ND	1.93	1.74	1.54
	3	25.40	ED2410-ND	2.55	2.30	2.04
	4	30.48	ED2411-ND	3.08	2.78	2.47
	5	35.56	ED2412-ND	3.85	3.47	3.08
	6	40.64	ED2413-ND	4.62	4.16	3.70
	7	45.72	ED2414-ND	5.39	4.86	4.32
	8	50.80	ED2415-ND	6.16	5.55	4.93
	9	55.88	ED2416-ND	6.93	6.24	5.55
	10	60.96	ED2417-ND	7.70	6.93	6.16
5.08mm Lead Spacing — Horiz. Headers						
8	2	10.16	ED1817-ND◆†	.41	.37	.33
	3	15.24	ED1818-ND◆†	.61	.55	.49
	4	20.32	ED1819-ND◆†	.82	.74	.66
	5	25.40	ED1820-ND◆†	1.02	.92	.82
	6	30.48	ED1821-ND◆†	1.22	1.10	.98
	7	35.56	ED1822-ND◆†	1.42	1.28	1.14
	8	40.64	ED1823-ND◆†	1.63	1.47	1.31
	9	45.72	ED1824-ND◆†	1.83	1.65	1.47
	10	50.80	ED1825-ND◆†	2.03	1.83	1.63
	11	55.88	ED1826-ND†	2.24	2.02	1.79
	12	60.96	ED1827-ND◆†	2.44	2.20	1.96
	14	71.12	ED1828-ND◆†	2.85	2.57	2.28
	16	81.28	ED1829-ND◆†	3.25	2.93	2.61
	18	91.44	ED1830-ND◆†	3.66	3.30	2.93
	20	101.60	ED1831-ND◆†	4.07	3.66	3.26
	24	121.92	ED1832-ND◆†	4.88	4.39	3.91
11	2	20.32	ED2427-ND◆	2.18	1.96	1.74
	3	25.40	ED2428-ND◆	2.43	2.19	1.94
	4	30.48	ED2429-ND◆	2.73	2.46	2.18
	5	35.56	ED2430-ND◆	3.08	2.78	2.47

◆ ***RoHS Compliant*** § Use Keying Star ED1901-ND
† Use Keying Star ED1902-ND
‡ Drawing shows 5.08 pitch

(Continued)

Fig. 9

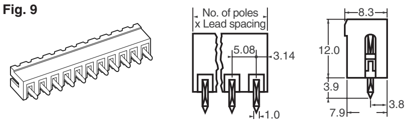

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 10

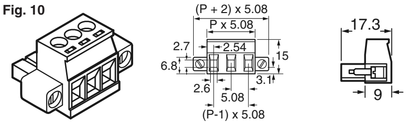

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 11

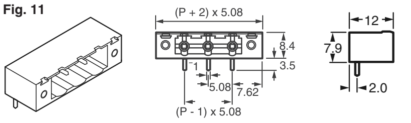

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 12

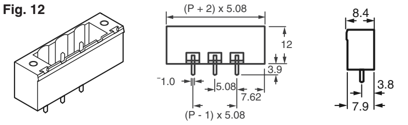

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 13

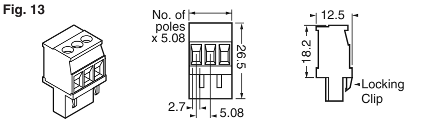

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 14

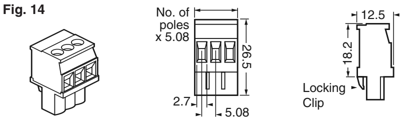

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 15

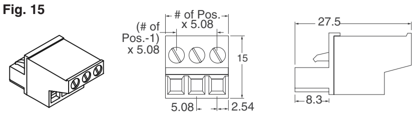

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 16

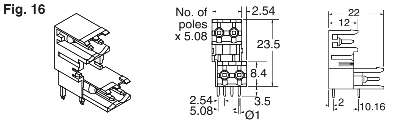

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 17

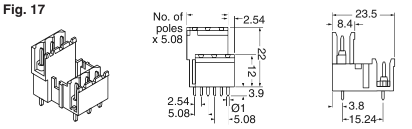

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 18

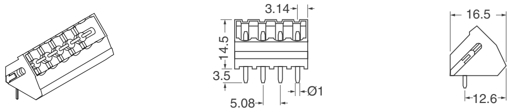

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 19

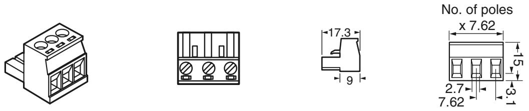

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 20

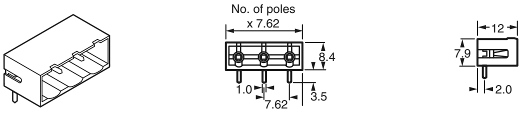

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 21

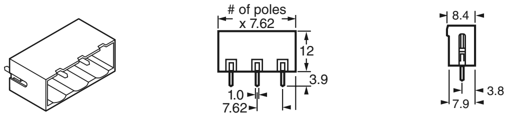

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
11	6	40.64	ED2431-ND◆	3.70	3.33	2.96
	7	45.72	ED2432-ND	4.31	3.89	3.45
	8	50.80	ED2433-ND◆	4.93	4.44	3.95
	9	55.88	ED2434-ND◆	5.55	5.00	4.44
	10	60.96	ED2435-ND◆	6.16	5.55	4.93
5.08mm Lead Spacing — Vert. Headers — RoHS Compliant						
9	2	10.16	ED1849-ND†	.41	.37	.33
	3	15.24	ED1850-ND†	.61	.55	.49
	4	20.32	ED1851-ND†	.82	.74	.66
	5	25.40	ED1852-ND†	1.02	.92	.82
	6	30.48	ED1853-ND†	1.22	1.10	.98
	7	35.56	ED1854-ND†	1.42	1.28	1.14
	8	40.64	ED1855-ND†	1.63	1.47	1.31
	9	45.72	ED1856-ND†	1.83	1.65	1.47
	10	50.80	ED1857-ND†	2.03	1.83	1.63
	11	55.88	ED1858-ND†	2.24	2.02	1.79
	12	60.96	ED1859-ND†	2.44	2.20	1.96
	14	71.12	ED1860-ND†	2.85	2.57	2.28
	16	81.28	ED1861-ND†	3.25	2.93	2.61
	18	91.44	ED1862-ND†	3.66	3.30	2.93
	20	101.60	ED1863-ND†	4.07	3.66	3.26
	24	121.92	ED1864-ND†	4.88	4.39	3.91
5.08mm Lead Spacing — Vertical Headers — RoHS Compliant						
12	2	20.32	ED2445-ND	1.85	1.67	1.48
	3	25.40	ED2446-ND	1.85	1.67	1.48
	4	30.48	ED2447-ND	2.47	2.22	1.98
	5	35.56	ED2448-ND	3.08	2.78	2.47
	6	40.64	ED2449-ND	3.70	3.33	2.96
	7	45.72	ED2450-ND	4.31	3.89	3.45
	8	50.80	ED2451-ND	4.93	4.44	3.95
	9	55.88	ED2452-ND	5.55	5.00	4.44
	10	60.96	ED2453-ND	6.16	5.55	4.93
5.08mm Lead Spacing — Vert. Plug						
13	2	10.16	ED1746-ND◆†	1.76	1.59	1.41
	3	15.24	ED1747-ND◆†	2.64	2.38	2.12
	4	20.32	ED1748-ND◆†	3.53	3.18	2.82
	5	25.40	ED1749-ND◆†	4.41	3.97	3.53
	6	30.48	ED1750-ND◆†	5.29	4.76	4.23

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
13	7	35.56	ED1751-ND◆†	6.17	5.55	4.94
	8	40.64	ED1752-ND†	7.05	6.35	5.64
	9	45.72	ED1753-ND◆†	7.93	7.14	6.35
	10	50.80	ED1754-ND◆†	8.81	7.93	7.05
	11	55.88	ED1755-ND†	9.69	8.72	7.75
	12	60.96	ED1756-ND◆†	10.57	9.52	8.46
	14	71.12	ED1757-ND◆†	12.34	11.11	9.87
	16	81.28	ED1758-ND◆†	14.10	12.69	11.28
14	2	10.16	ED1759-ND◆†	1.76	1.59	1.41
	3	15.24	ED1760-ND◆†	2.64	2.38	2.12
	4	20.32	ED1761-ND◆†	3.53	3.18	2.82
	5	25.40	ED1762-ND◆†	4.41	3.97	3.53
	6	30.48	ED1763-ND◆†	5.29	4.76	4.23
	7	35.56	ED1764-ND◆†	6.17	5.55	4.94
	8	40.64	ED1765-ND◆†	7.05	6.35	5.64
	9	45.72	ED1766-ND◆†	7.93	7.14	6.35
	10	50.80	ED1767-ND◆†	8.81	7.93	7.05
	11	55.88	ED1768-ND◆†	9.69	8.72	7.75
	12	60.96	ED1769-ND◆†	10.57	9.52	8.46
	14	71.12	ED1770-ND◆†	12.34	11.11	9.87
	16	81.28	ED1771-ND†	14.10	12.69	11.28
5.08mm Lead Spacing — Plugs						
15	2	5.08	ED1983-ND◆	2.47	2.22	1.98
	3	10.16	ED1984-ND◆	3.70	3.33	2.96
	4	15.24	ED1985-ND◆	4.93	4.44	3.95
	5	20.32	ED1986-ND	6.16	5.55	4.93
	6	25.40	ED1987-ND	7.39	6.66	5.92
	7	30.48	ED1988-ND	8.63	7.77	6.90
	8	35.56	ED1989-ND	9.86	8.87	7.89
	9	40.64	ED1990-ND◆	11.09	9.98	8.87
	10	45.72	ED1991-ND	12.32	11.09	9.86
	11	50.80	ED1992-ND	13.55	12.20	10.85
	12	55.88	ED1993-ND	14.79	13.31	11.83
	14	66.04	ED1994-ND	17.25	15.53	13.80
	16	76.20	ED1995-ND	19.71	17.75	15.77
	18	86.36	ED1996-ND◆	22.18	19.96	17.74
	20	96.52	ED1997-ND	24.64	22.18	19.72
	24	116.84	ED1998-ND	29.57	26.62	23.66

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
5.08mm Lead Spacing — Horiz. Headers — RoHS Compliant						
16	4	5.08	ED1903-ND	2.03	1.83	1.63
	6	10.16	ED1904-ND	3.05	2.75	2.44
5.08mm Lead Spacing — Vert. Headers						
17	4	5.08	ED1905-ND	1.85	1.67	1.48
	6	10.16	ED1906-ND◆	2.77	2.50	2.22
5.08mm Lead Spacing — 45° Header						
18	2	5.08	ED1907-ND◆	.48	.43	.38
	3	10.16	ED1908-ND	.71	.65	.57
	4	15.24	ED1909-ND◆	.95	.86	.76
	5	20.32	ED1910-ND◆	1.19	1.07	.95
	6	25.40	ED1911-ND◆	1.42	1.28	1.14
	7	30.48	ED1912-ND	1.66	1.50	1.33
	8	35.56	ED1913-ND◆	1.90	1.71	1.52
	9	40.64	ED1914-ND	2.14	1.93	1.71
	10	45.72	ED1915-ND◆	2.37	2.14	1.90
	11	50.80	ED1916-ND	2.61	2.35	2.09
	12	55.88	ED1917-ND◆	2.85	2.57	2.28
	13	60.96	ED1918-ND	3.08	2.78	2.47
	14	66.04	ED1919-ND◆	3.32	2.99	2.66
	15	71.12	ED1920-ND	3.56	3.21	2.85
	16	76.20	ED1921-ND◆	3.79	3.42	3.04
	17	81.28	ED1922-ND◆	4.03	3.63	3.23
	18	86.36	ED1923-ND	4.27	3.85	3.42
	19	91.44	ED1924-ND	4.51	4.06	3.61
	20	96.52	ED1925-ND◆	4.75	4.28	3.80
	21	101.60	ED1926-ND	4.98	4.49	3.99
	22	106.68	ED1927-ND	5.22	4.70	4.18
	23	111.76	ED1928-ND	5.45	4.91	4.37
	24	116.84	ED1929-ND◆	5.69	5.13	4.56
7.62mm Lead Spacing — Plugs						
19	2	15.24	ED1733-ND◆§	1.54	1.39	1.24
	3	22.86	ED1734-ND◆§	2.31	2.08	1.85
	4	30.48	ED1735-ND◆§	3.08	2.78	2.47
	5	38.10	ED1736-ND◆§	3.85	3.47	3.08
	6	45.72	ED1737-ND◆§	4.62	4.16	3.70
	7	53.34	ED1738-ND§	5.39	4.86	4.32
	8	60.96	ED1739-ND◆§	6.16	5.55	4.93

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
19	9	68.58	ED1740-ND◆§	6.93	6.24	5.55
	10	76.20	ED1741-ND◆§	7.70	6.93	6.16
	11	83.82	ED1742-ND◆§	8.47	7.63	6.78
	12	91.44	ED1743-ND§	9.24	8.32	7.40
	14	106.68	ED1744-ND◆§	10.78	9.71	8.63
	16	121.92	ED1745-ND§	12.32	11.09	9.86
7.62mm Lead Spacing — Horiz. Header						
20	2	15.24	ED1865-ND†	.56	.50	.45
	3	22.86	ED1866-ND◆†	.83	.75	.67
	4	30.48	ED1867-ND◆†	1.11	1.00	.89
	5	38.10	ED1868-ND◆†	1.39	1.25	1.11
	6	45.72	ED1869-ND◆†	1.67	1.50	1.34
	7	53.34	ED1870-ND†	1.94	1.75	1.56
	8	60.96	ED1871-ND†	2.22	2.00	1.78
	9	68.58	ED1872-ND†	2.50	2.25	2.00
	10	76.20	ED1873-ND◆†	2.77	2.50	2.22
	11	83.82	ED1874-ND†	3.05	2.75	2.44
	12	91.44	ED1875-ND†	3.33	3.00	2.67
	14	106.68	ED1876-ND†	3.88	3.50	3.11
	16	121.92	ED1877-ND†	4.44	4.00	3.55
7.62mm Lead Spacing — Vert. Header						
21	2	15.24	ED1878-ND◆†	.56	.50	.45
	3	22.86	ED1879-ND◆†	.83	.75	.67
	4	30.48	ED1880-ND◆†	1.11	1.00	.89
	5	38.10	ED1881-ND◆†	1.39	1.25	1.11
	6	45.72	ED1882-ND†	1.67	1.50	1.34
	7	53.34	ED1883-ND†	1.94	1.75	1.56
	8	60.96	ED1884-ND◆†	2.22	2.00	1.78
	9	68.58	ED1885-ND◆†	2.50	2.25	2.00
	10	76.20	ED1886-ND◆†	2.77	2.50	2.22
	11	83.82	ED1887-ND◆†	3.05	2.75	2.44
	12	91.44	ED1888-ND†	3.33	3.00	2.67
	14	106.68	ED1890-ND◆†	3.88	3.50	3.11
	16	121.92	ED1891-ND†	4.44	4.00	3.55
Keying Star			ED1901-ND	.95	.86	.76
Keying Star			ED1902-ND◆	.95	.86	.76

◆ ***RoHS Compliant*** § Use Keying Star ED1901-ND
† Use Keying Star ED1902-ND ‡ Drawing shows 5.08 pitch

Weidmüller

Terminal Blocks

SL-SMT Series: • Stable at 500°F (260°C) compatible with all reflow soldering processes
• Pick and place compatible • 10 times greater strength than standard "Gull Wing" SMT pins

Dimensions in mm

Fig. 1 – LM 3.5/90

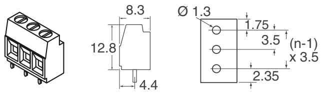

Specifications: • Screw clamp
• UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 2 – LM 3.5/135

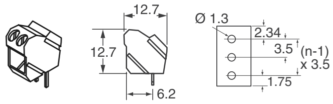

Specifications: • Screw clamp
• UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 3 – LM2N 3.5/90

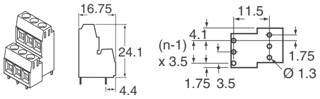

Specifications: • Screw clamp
• UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 4 – LSF-SMT 3.5/90, 3.81/90, 5.00/90 and 5.08/90

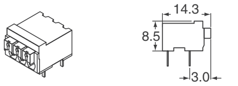

Specifications: • Spring connection
• UL: 300V @ 16A • 16AWG • Pin length: 3.5mm

Fig. 5 – LM 5.00, 5.08/90

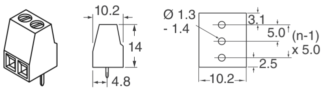

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 6 – LM 5.00/135

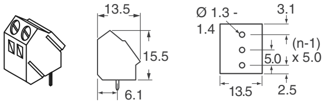

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 7 – LP 5.00, 5.08/90

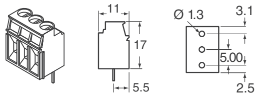

Specifications: • Screw clamp
• UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 8 – LP 2N/5.00

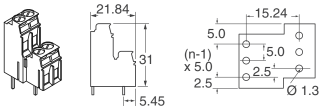

Specifications: • Screw clamp
• UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 9 – LM 5.08/135

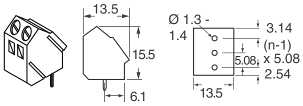

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 10 – LM 5.08/180

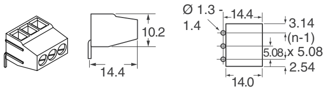

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 11 – LM2N 5.08/90

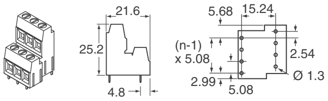

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 12 – LM3R 5.08/90

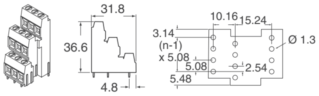

Specifications: • Screw clamp
• UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 13 – LP 5.08/135

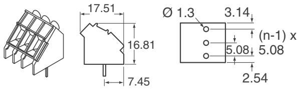

Specifications: • Screw clamp
• UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 14 – LP 2N/5.08

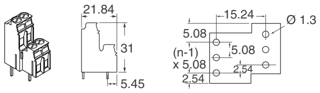

Specifications: • Screw clamp
• UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 15 – PM 5.08/90

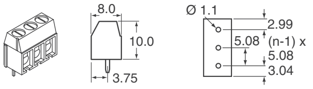

Specifications: • Leaf spring screw clamp
• UL: 300V @ 16A • 14AWG • Pin length: 3.5mm

Fig. 16 – LMZF 5.08/90

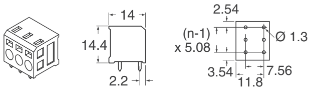

Specifications: • Tension clamp
• UL: 300V @ 10A • 14AWG • Pin length: 4.1mm

Fig. 17 – SL 3.5/180/...G

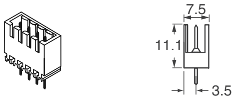

Specifications: • UL: 300V @ 10A • Pin length: 4.5mm

Fig. 18 – SL 3.5/180/...F

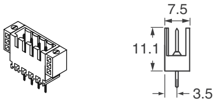

Specifications: • UL: 300V @ 10A • Pin length: 4.5mm

Fig. 19 – SL 3.5/90/...G

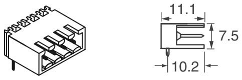

Specifications: • UL: 300V @ 10A • Pin length: 4.5mm

Fig. 20 – SL 3.5/90/...F

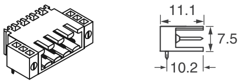

Specifications: • UL: 300V @ 10A • Pin length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
3.50mm Pin Spacing – PCB Terminal Blocks — RoHS Compliant							
1	2	Black	281-1400-ND	.99	.90	.80	1699670000
	3	Black	281-1401-ND	1.50	1.35	1.20	1699680000
	4	Black	281-1402-ND	2.10	1.89	1.68	996770
	6	Black	281-1403-ND	3.14	2.83	2.51	996772
	8	Black	281-1404-ND	4.17	3.76	3.34	996774
	10	Black	281-1405-ND	5.24	4.72	4.19	996776
	12	Black	281-1406-ND	6.26	5.63	5.01	996778
2	2	Black	281-1407-ND	1.17	1.06	.94	1715010000
	3	Black	281-1408-ND	1.76	1.58	1.41	1715050000
	4	Black	281-1409-ND	2.36	2.12	1.89	999568
	6	Black	281-1410-ND	3.50	3.15	2.80	999570
	8	Black	281-1411-ND	4.70	4.23	3.76	999572
	10	Black	281-1412-ND	5.84	5.26	4.67	999574
	12	Black	281-1413-ND	7.01	6.31	5.61	999576
3	4	Black	281-1670-ND	3.14	2.83	2.51	1720000000
	6	Black	281-1671-ND	4.71	4.24	3.77	1720010000
	10	Black	281-1673-ND	7.85	7.07	6.28	1720030000
	12	Black	281-1674-ND	8.65	7.90	6.02	1720040000
	16	Black	281-1675-ND	10.04	9.30	7.79	1720060000
	20	Black	281-1676-ND	12.55	11.62	9.73	1720080000
	24	Black	281-1677-ND	15.07	13.95	11.69	1720100000
4	9	Black	281-2027-ND	2.58	2.33	2.07	1824490000
	10	Black	281-2028-ND	2.88	2.60	2.31	1824500000
	12	Black	281-2030-ND	3.47	3.12	2.78	1824520000
5.00mm Pin Spacing – PCB Terminal Blocks — RoHS Compliant							
5	2	Black	281-1414-ND	.79	.71	.62	1715250000
	3	Black	281-1415-ND	1.18	1.06	.92	1715260000
	4	Black	281-1416-ND	1.56	1.40	1.20	9993300000
	6	Black	281-1417-ND	2.33	2.09	1.80	9993320000
	8	Black	281-1418-ND	3.10	2.78	2.39	999334
	10	Black	281-1419-ND	3.84	3.45	2.97	999336
	12	Black	281-1420-ND	4.64	4.16	3.58	999338
6	2	Black	281-1421-ND	.85	.77	.66	1715290000
	3	Black	281-1422-ND	1.27	1.14	.98	1715300000
	4	Black	281-1423-ND	1.68	1.51	1.30	999351
	6	Black	281-1424-ND	2.52	2.26	1.95	999353
	8	Black	281-1425-ND	3.37	3.02	2.60	999355
	10	Black	281-1426-ND	4.19	3.77	3.35	999357
	12	Black	281-1427-ND	5.04	4.52	3.89	999359
7	2	Black	281-1876-ND	1.04	.93	.80	1696060000
	3	Black	281-1877-ND	1.51	1.36	1.17	1696070000
8	4	Orange	281-1456-ND	2.70	2.43	2.16	1635170000
	6	Orange	281-1457-ND	3.90	3.50	3.01	1625570000
	8	Orange	281-1458-ND	5.16	4.62	3.98	1596440000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
5.08mm Pin Spacing – PCB Terminal Blocks							
5	2	Black	281-1435-ND◆	.79	.71	.62	1716020000
	3	Black	281-1436-ND◆	1.18	1.06	.92	1716030000
	4	Black	281-1437-ND◆	1.56	1.40	1.20	999392
	6	Black	281-1438-ND◆	2.33	2.09	1.80	999394
	8	Black	281-1439-ND◆	3.23	2.91	2.58	999396
	10	Black	281-1440-ND◆	3.84	3.45	2.97	999398
	12	Black	281-1441-ND◆	4.64	4.16	3.58	999400
7	2	Black	281-1870-ND◆	1.04	.93	.80	1696040000
	3	Black	281-1871-ND◆	1.51	1.36	1.17	1696050000
9	2	Black	281-1442-ND◆	.85	.77	.66	1716060000
	3	Black	281-1443-ND◆	1.27	1.14	.98	1716070000
	4	Black	281-1444-ND◆	1.68	1.51	1.30	9994340000
	6	Black	281-1445-ND◆	2.52	2.26	1.95	9994360000
	8	Black	281-1446-ND◆	3.37	3.02	2.60	9994380000
	10	Black	281-1447-ND◆	4.19	3.76	3.24	999440
	12	Black	281-1448-ND◆	5.04	4.52	3.89	999442
10	2	Black	281-1449-ND◆	.85	.77	.66	1716040000
	3	Black	281-1450-ND◆	1.27	1.14	.98	1716050000
	4	Black	281-1451-ND◆	1.68	1.51	1.30	999476
	6	Black	281-1452-ND◆	2.52	2.26	1.95	999478
	8	Black	281-1453-ND◆	3.37	3.02	2.60	999480
	10	Black	281-1454-ND◆	4.19	3.76	3.24	999482
11	4	Black	281-1564-ND◆	2.39	2.15	1.85	1769080000
	6	Black	281-1565-ND◆	3.60	3.23	2.78	1769090000
	8	Black	281-1566-ND◆	4.80	4.30	3.70	1769100000
	10	Black	281-1567-ND◆	5.99	5.37	4.62	1769110000
	12	Black	281-1568-ND◆	7.17	6.43	5.53	1769120000
	16	Black	281-1569-ND◆	9.60	8.61	7.41	1769140000
	20	Black	281-1570-ND◆	12.01	10.76	9.26	1769160000
	24	Black	281-1571-ND◆	14.39	12.89	11.09	1769180000
12	6	Black	281-1572-ND◆	4.25	3.81	3.28	1769930000
	9	Black	281-1573-ND◆	6.32	5.67	4.88	1769940000
	15	Black	281-1575-ND◆	10.98	9.89	8.79	1769960000
	18	Black	281-1576-ND◆	12.64	11.33	9.75	1769970000
	24	Black	281-1577-ND◆	16.85	15.10	12.99	1769990000
	30	Black	281-1578-ND	21.95	19.76	17.56	1770010000
13	2	Black	281-1874-ND◆	1.08	.97	.84	1676740000
	3	Black	281-1875-ND◆	1.64	1.48	1.27	1676750000
14	4	Orange	281-1461-ND◆	2.59	2.33	2.00	1635150000
	6	Orange	281-1462-ND◆	3.90	3.50	3.01	1625550000
	8	Orange	281-1463-ND◆	5.16	4.62	3.98	1596470000
	10	Orange	281-1464-ND◆	6.47	5.80	4.99	1596500000
	12	Orange	281-1465-ND◆	7.75	6.94	5.98	1632560000
15	2	Black	281-1882-ND◆	.46	.42	.36	1760510000
	3	Black	281-1883-ND◆	.68	.61	.53	1760520000
16	2	Black	281-1678-ND◆	.94	.84	.73	1721640000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
16	3	Black	281-1679-ND◆	1.31	1.18	1.02	1721650000
	8	Black	281-1683-ND◆	3.20	2.87	2.47	1721700000
3.50mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
17	2	Black	281-1144-ND	.66	.60	.53	1614240000
	3	Black	281-1145-ND	.99	.90	.80	1616020000
	4	Black	281-1146-ND	1.37	1.23	1.10	1616030000
	6	Black	281-1147-ND	2.01	1.81	1.61	1616050000
	8	Black	281-1148-ND	2.69	2.42	2.15	1614250000
	10	Black	281-1149-ND	3.35	3.02	2.68	1616080000
	12	Black	281-1150-ND	4.01	3.61	3.21	1616100000
	16	Black	281-1151-ND	5.31	4.78	4.25	1614260000
	24	Black	281-1152-ND	7.98	7.19	6.39	1618680000
18	2	Black	281-1153-ND	.78	.71	.63	1616140000
	3	Black	281-1154-ND	1.16	1.04	.93	1616150000
	4	Black	281-1155-ND	1.55	1.40	1.24	1616160000
	6	Black	281-1156-ND	2.33	2.10	1.86	1616180000
	8	Black	281-1157-ND	3.08	2.77	2.46	1614270000
	10	Black	281-1158-ND	3.84	3.46	3.08	1616210000
	12	Black	281-1159-ND	4.59	4.14	3.68	1616230000
	16	Black	281-1160-ND	6.12	5.51	4.90	1616270000
19	2	Black	281-1117-ND	.66	.60	.53	1614160000
	3	Black	281-1118-ND	.99	.90	.80	1615420000
	4	Black	281-1119-ND	1.37	1.23	1.10	1615430000
	6	Black	281-1120-ND	2.01	1.81	1.61	1615440000
	8	Black	281-1121-ND	2.58	2.31	1.99	1614180000
	10	Black	281-1122-ND	3.35	3.02	2.68	1615470000
	12	Black	281-1123-ND	3.93	3.54	3.15	1615490000
	16	Black	281-1124-ND	5.31	4.78	4.25	1614190000
20	2	Black	281-1126-ND	.78	.71	.63	1615530000
	3	Black	281-1127-ND	1.16	1.04	.93	1615540000
	4	Black	281-1128-ND	1.55	1.40	1.24	1615550000
	6	Black	281-1129-ND	2.33	2.10	1.86	1615570000
	8	Black	281-1130-ND	3.08	2.77	2.46	1614200000
	10	Black	281-1131-ND	3.84	3.46	3.08	1615600000
	12	Black	281-1132-ND	4.59	4.14	3.68	1615620000
3.81mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
21	2	Green	281-1948-ND	.66	.60	.53	1793610000
	3	Green	281-1949-ND	.99	.90	.80	1793620000
	4	Green	281-1950-ND	1.37	1.23	1.10	1793630000
	5	Green	281-1951-ND	1.67	1.50	1.34	1793640000
	6	Green	281-1952-ND	2.01	1.81	1.61	1793650000
	8	Green	281-1953-ND	2.69	2.42	2.15	1793660000
	12	Green	281-1955-ND	4.01	3.61	3.21	1793680000
22	2	Green	281-1957-ND	.78	.71	.63	1793790000
	3	Green	281-1958-ND	1.16	1.04	.93	1793800000
	4	Green	281-1959-ND	1.55	1.40	1.24	1793810000

◆ ***RoHS Compliant*** † Bus Version ✔ ***NEW!*** ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Dimensions in mm

Fig. 21 – SL 3.81/180G

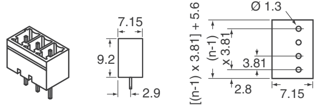

Specifications: • UL: 300V @ 8A • Pin length: 3.5mm

Fig. 22 – SL 3.81/180F

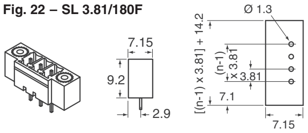

Specifications: • UL: 300V @ 8A • Pin length: 3.5mm

Fig. 23 – SL3.81/90G

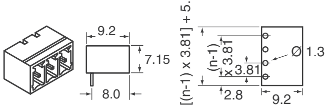

Specifications: • UL: 300V @ 8A • Pin length: 3.5mm

Fig. 24 – SL 3.81/90F

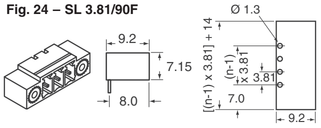

Specifications: • UL: 300V @ 8A • Pin length: 3.5mm

Fig. 25 – SL 5.00/180/..B, SL 5.08/180/..B

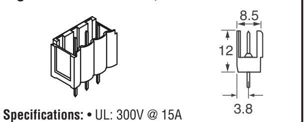

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm **Note:** B = Closed end

Fig. 26 – SL 5.00/90/..B, SL 5.08/90

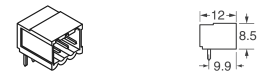

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm **Note:** B = Closed end

Fig. 27 – SLD 5.08V/180B

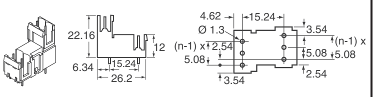

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm **Note:** B = Closed end

Fig. 28 – SLD 5.08V/90B

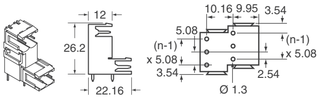

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm **Note:** B = Closed end

Fig. 29 – BLL 5.08/180

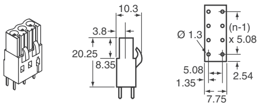

Specifications: • Solder connection • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 30 – BLL 5.08/90

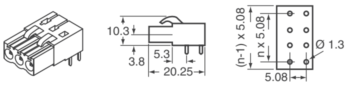

Specifications: • Solder connection • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 31 – S2L 3.5/180G - Double Density

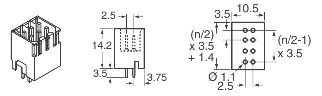

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 32 – S2L 3.5/180F - Double Density

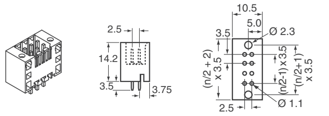

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 33 – S2L 3.5/90 - Double Density

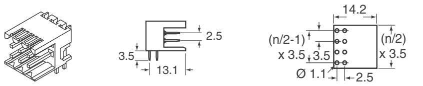

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 34 – S2L 3.5/90G - Double Density

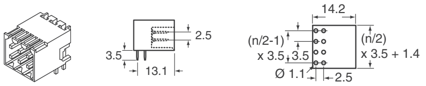

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 35 – S2L 3.5/90F - Double Density

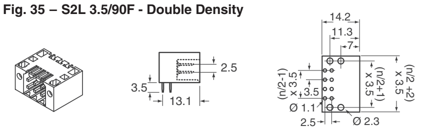

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 36 – B2L 3.5

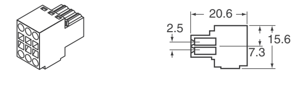

Specifications:
• Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 37 – B2L 3.5F

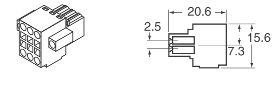

Specifications:
• Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 38 – B2L 3.5LH

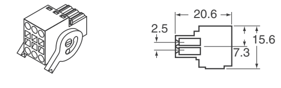

Specifications:
• Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 39 – BL 3.5

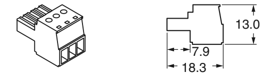

Specifications:
• Screw clamp • UL: 300V @ 10A • 14AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
22	5	Green	281-1960-ND	1.89	1.71	1.52	1793820000
	6	Green	281-1961-ND	2.33	2.10	1.86	1793830000
	8	Green	281-1962-ND	3.08	2.77	2.46	1793840000
	10	Green	281-1963-ND	3.84	3.46	3.08	1793850000
	12	Green	281-1964-ND	4.59	4.14	3.68	1793860000
23	2	Green	281-1930-ND	.66	.60	.53	1793240000
	3	Green	281-1931-ND	.99	.90	.80	1793250000
	4	Green	281-1932-ND	1.37	1.23	1.10	1793260000
	5	Green	281-1933-ND	1.67	1.50	1.34	1793270000
	6	Green	281-1934-ND	2.01	1.81	1.61	1793280000
	8	Green	281-1935-ND	2.69	2.42	2.15	1793290000
	10	Green	281-1936-ND	3.35	3.02	2.68	1793300000
24	2	Green	281-1939-ND	.78	.71	.63	1793420000
	3	Green	281-1940-ND	1.16	1.04	.93	1793430000
	4	Green	281-1941-ND	1.55	1.40	1.24	1793440000
	5	Green	281-1942-ND	1.94	1.75	1.55	1793450000
	6	Green	281-1943-ND	2.33	2.10	1.86	1793460000
	8	Green	281-1944-ND	3.08	2.77	2.46	1793470000
5.00mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
25	2	Black	281-1234-ND	.58	.52	.45	1626620000
	3	Black	281-1235-ND	.84	.75	.65	1626630000
	4	Black	281-1236-ND	1.09	.98	.85	1596130000
	6	Black	281-1237-ND	1.60	1.44	1.24	1626650000
	8	Black	281-1238-ND	2.19	1.97	1.69	1596140000
	10	Black	281-1239-ND	2.66	2.39	2.06	1626680000
	12	Black	281-1240-ND	3.25	2.92	2.51	1603310000
	24	Black	281-1242-ND	6.35	5.69	4.90	1626810000
26	2	Black	281-1216-ND	.58	.52	.45	1626210000
	3	Black	281-1217-ND	.84	.75	.65	1626220000
	4	Black	281-1218-ND	1.11	1.00	.86	1596150000
	6	Black	281-1219-ND	1.60	1.44	1.24	1626240000
	8	Black	281-1220-ND	2.13	1.91	1.65	1626250000
	10	Black	281-1221-ND	2.72	2.44	2.10	1596170000
	16	Black	281-1223-ND	4.35	3.90	3.36	1603330000
5.08mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
25	2	Black	281-1297-ND	.58	.52	.45	1524110000
	3	Black	281-1298-ND	.84	.75	.65	1524210000
	4	Black	281-1299-ND	1.11	1.00	.86	1524310000
	6	Black	281-1300-ND	1.66	1.49	1.28	1524510000
	8	Black	281-1301-ND	2.19	1.97	1.69	1524710000
	10	Black	281-1302-ND	2.72	2.44	2.10	1524910000
	12	Black	281-1303-ND	3.25	2.92	2.51	1525110000
	16	Black	281-1304-ND	4.35	3.90	3.36	1525510000
26	2	Black	281-1279-ND	.58	.52	.45	1514910000
	3	Black	281-1280-ND	.84	.75	.65	1515010000
	4	Black	281-1281-ND	1.11	1.00	.86	1515110000
	6	Black	281-1282-ND	1.66	1.49	1.28	1515310000
	8	Black	281-1283-ND	2.19	1.97	1.69	1515510000
	10	Black	281-1284-ND	2.72	2.44	2.10	1515710000
	12	Black	281-1285-ND	3.25	2.92	2.51	1515910000
26	16	Black	281-1286-ND	4.35	3.90	3.36	1516310000
27	16	Black	281-1898-ND	8.57	7.71	6.86	1727030000
28	6	Black	281-1885-ND	3.10	2.78	2.39	1726520000
5.08mm Pitch Omnimate – PCB Socket Headers — RoHS Compliant							
29	2	Black	281-1745-ND	1.45	1.31	1.13	1646250000
	6	Black	281-1748-ND	4.38	3.93	3.38	1646290000
	8	Black	281-1749-ND	5.80	5.20	4.48	1646310000
	10	Black	281-1750-ND	7.24	6.49	5.59	1646330000
30	4	Black	281-1738-ND	3.05	2.75	2.44	1646050000
	8	Black	281-1740-ND	5.80	5.20	4.48	1646090000
	10	Black	281-1741-ND	7.24	6.49	5.59	1646110000
3.50mm Minimate Double Density – PCB Pin Headers — RoHS Compliant							
31	6	Black	281-1835-ND	2.06	1.85	1.65	1728950000
	8	Black	281-1836-ND	2.75	2.48	2.20	1728960000
	16	Black	281-1839-ND	5.48	4.93	4.38	1729000000
	20	Black	281-1840-ND	6.86	6.17	5.49	1729020000
	24	Black	281-1841-ND	8.21	7.39	6.57	1729040000
32	6	Black	281-1842-ND	2.69	2.42	2.15	1729590000
	8	Black	281-1843-ND	3.36	3.03	2.69	1729600000
	16	Black	281-1846-ND	6.09	5.49	4.88	1729640000
	20	Black	281-1847-ND	7.44	6.70	5.96	1729660000
	24	Black	281-1848-ND	8.11	7.41	5.65	1729680000
33	6	Black	281-1807-ND	2.06	1.85	1.65	1728310000
	10	Black	281-1809-ND	3.45	3.11	2.76	1728330000
	12	Black	281-1810-ND	4.13	3.72	3.30	1728340000
34	8	Black	281-1815-ND	2.75	2.48	2.20	1728000000
	10	Black	281-1816-ND	3.45	3.11	2.76	1728010000
	12	Black	281-1817-ND	4.13	3.72	3.30	1728020000
	16	Black	281-1818-ND	5.48	4.93	4.38	1728040000
	20	Black	281-1819-ND	6.86	6.17	5.49	1728060000
35	6	Black	281-1821-ND	2.69	2.42	2.15	1728630000
	10	Black	281-1823-ND	4.05	3.65	3.24	1728650000
	16	Black	281-1825-ND	6.09	5.49	4.88	1728680000
	20	Black	281-1826-ND	7.44	6.70	5.96	1728700000
3.50mm Minimate Double Density – Socket Blocks — RoHS Compliant							
36	6	Black	281-1849-ND	6.36	5.73	5.09	1727640000
	8	Black	281-1850-ND	8.46	7.62	6.77	1727650000
	10	Black	281-1851-ND	9.72	8.87	6.76	1727660000
	12	Black	281-1852-ND	10.12	9.36	7.84	1727670000
	16	Black	281-1853-ND	13.54	12.53	10.50	1727690000
	20	Black	281-1854-ND	16.88	15.62	13.09	1727710000
	24	Black	281-1855-ND	25.32	22.79	20.26	1747940000
37	6	Black	281-1856-ND	6.68	6.01	5.34	1748170000
	8	Black	281-1857-ND	8.32	7.60	5.79	1748180000
	10	Black	281-1858-ND	10.38	9.48	7.22	1748190000
	16	Black	281-1860-ND	14.46	13.38	11.21	1748220000
	24	Black	281-1862-ND	18.98	17.36	14.65	1748260000
38	20	Black	281-1868-ND	19.43	17.98	15.06	1748560000
3.50mm Omnimate – Socket Blocks							
39	2	Black	281-1054-ND◆	2.00	1.80	1.60	1615670000
	3	Black	281-1055-ND◆	2.94	2.65	2.36	1615680000
	4	Black	281-1056-ND◆	3.93	3.54	3.15	1615690000
	6	Black	281-1057-ND◆	5.94	5.35	4.76	1610180000
	8	Black	281-1058-ND◆	7.91	7.12	6.33	1615700000
	10	Black	281-1059-ND◆	8.79	8.03	6.12	1610200000
	12	Black	281-1060-ND◆	10.89	9.95	7.58	1615730000
	16	Black	281-1061-ND◆	12.61	11.67	9.78	1615770000
	24	Black	281-1062-ND◆	18.89	17.48	14.64	1620440000
40	2	Black	281-1063-ND◆	2.07	1.87	1.66	1615780000
	3	Black	281-1064-ND◆	3.11	2.80	2.49	1615790000
	4	Black	281-1065-ND◆	4.16	3.74	3.33	1615800000
	6	Black	281-1066-ND◆	6.24	5.62	5.00	1615820000
	8	Black	281-1067-ND◆	8.43	7.59	6.75	1615840000
	10	Black	281-1068-ND◆	9.72	8.87	6.76	1615860000
	12	Black	281-1069-ND◆	10.13	9.37	7.85	1615880000
	16	Black	281-1070-ND◆	13.50	12.49	10.47	1615920000
41	2	Black	281-1018-ND◆	2.07	1.87	1.66	1638780000
	3	Black	281-1019-ND◆	3.11	2.80	2.49	1638790000
	4	Black	281-1020-ND◆	4.16	3.74	3.33	1638800000
	6	Black	281-1021-ND◆	6.23	5.61	4.98	1638820000
	8	Black	281-1022-ND◆	8.28	7.46	6.63	1638840000
	10	Black	281-1023-ND◆	9.51	8.69	6.62	1638860000
	12	Black	281-1024-ND◆	11.41	10.42	7.70	1638880000
	16	Black	281-1025-ND◆	13.24	12.25	10.26	1638920000
	24	Black	281-1026-ND◆	19.86	18.38	15.40	1639000000
42	3	Black	281-1037-ND◆	3.11	2.80	2.49	1639710000
	10	Black	281-1041-ND◆	9.51	8.69	6.62	1639780000
	12	Black	281-1042-ND	12.41	11.17	9.93	1639800000
43	2	Black	281-1702-ND◆	2.36	2.12	1.89	1770940000
	12	Black	281-1708-ND◆	14.07	12.67	11.26	1771040000
44	4	Black	281-1712-ND◆	5.00	4.50	4.00	1771110000
	2	Black	281-1723-ND†	2.66	2.39	2.13	1770740000
	4	Black	281-1725-ND◆†	5.27	4.74	4.22	1770760000
3.50mm Omnimate – BLI/O Socket Blocks — RoHS Compliant							
45	10	Black	281-1803-ND	8.69	7.82	6.95	1779880000
3.81mm Omnimate – Socket Blocks							
46	2	Green	281-1912-ND◆	1.94	1.75	1.55	1792860000
	3	Green	281-1913-ND◆	2.87	2.58	2.30	1792870000
	4	Green	281-1914-ND◆	3.83	3.45	3.06	1792880000
	5	Green	281-1915-ND◆	4.79	4.31	3.83	1792890000
	8	Green	281-1917-ND◆	7.67	6.90	6.14	1792910000
	10	Green	281-1918-ND◆	8.83	8.07	6.15	1792920000
47	2	Green	281-1921-ND◆	2.03	1.83	1.62	1793040000
	3	Green	281-1922-ND◆	3.03	2.73	2.43	1793050000
	4	Green	281-1923-ND◆	4.02	3.62	3.22	1793060000
	5	Green	281-1924-ND◆	5.15	4.64	4.12	1793070000
	6	Green	281-1925-ND◆	6.05	5.45	4.84	1793080000
	8	Green	281-1926-ND◆	8.19	7.38	6.56	1793090000
	10	Green	281-1927-ND◆	9.44	8.62	6.57	1793100000

◆ ***RoHS Compliant*** † Bus Version ✔ ***NEW!*** ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Dimensions in mm

Fig. 40 – BL 3.5/..F

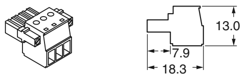

Specifications:
• Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 41 – BL 3.5/90

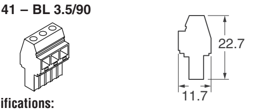

Specifications:
• Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 42 – BL 3.5/270

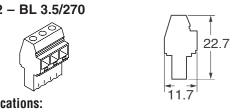

Specifications:
• Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 43 – BLIDC 3.5

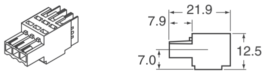

Specifications:
• IDC connection • UL: 300V @ 7A • 20AWG

Fig. 44 – BLIDC 3.5F

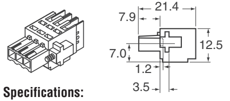

Specifications:
• IDC connection • UL: 300V @ 7A • 20AWG

Fig. 45 – BL-I/O 3.5/10F

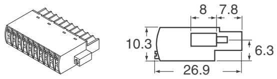

Specifications:
• Push-in spring connection • UL: 50V @ 5A • 16AWG

Fig. 46 – BL3.81

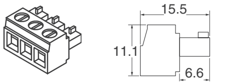

Specifications:
• Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 47 – BL 3.81F

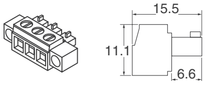

Specifications:
• Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 48 – BL 3.81/90

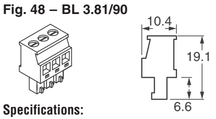

Specifications:
• Clamping yoke • UL 300V @ 8A • 16AWG

Fig. 49 – BL 3.81/90F

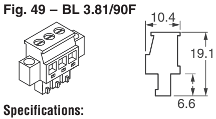

Specifications:
• Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 50 – BL 3.81/270

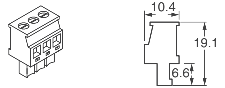

Specifications:
• Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 51 – BL 3.81/270F

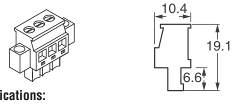

Specifications:
• Clamping yoke • UL 300V @ 8A • 16AWG

Fig. 52 **BLZ 5.00** **BLZP 5.00/06/180** ***NEW!***

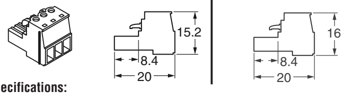

Specifications:
• Screw clamp • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 53 **BLZ 5.00/90** **BLZP 5.00/03/90** ***NEW!***

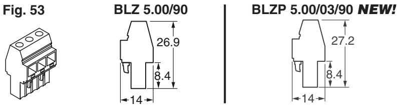

Specifications: • Screw clamp • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 54 – BLF 5.00/90, 5.08/90 ***NEW!***

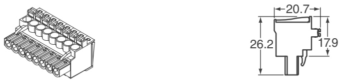

Specifications: • PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 55 – BLF 5.00/90F, 5.08/90F ***NEW!***

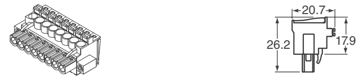

Specifications: • PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 56 – BLF 5.00/90LR, 5.08/90LR ***NEW!***

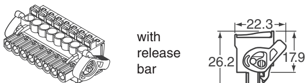

Specifications:
• PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 57 – BLF 5.00/90LH, 5.08/90LH ***NEW!***

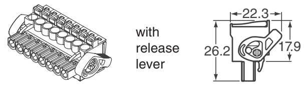

Specifications:
• PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 58 **BLZ 5.08** **BLZP 5.08/180** ***NEW!***

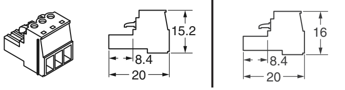

Specifications:
• Screw clamp • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 59 – BLT 5.08/180

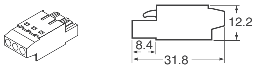

Specifications:
• Top connection • UL 300V @ 10A • 14 ~ 26AWG

Fig. 60 **BLZ 5.08/90** **BLZP 5.08/90** ***NEW!***

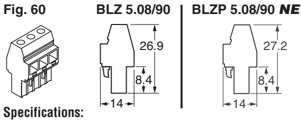

Specifications:
• Screw clamp • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 61 **BLZ 5.08/270** **BLZP 5.08/270** ***NEW!***

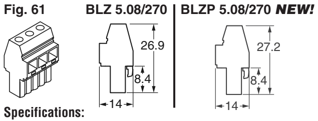

Specifications:
• Screw clamp • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 62 – BLF 5.08/270 ***NEW!***

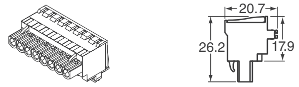

Specifications:
• PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 63 – BLF 5.08/270F ***NEW!***

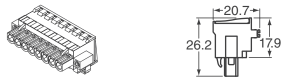

Specifications:
• PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
48	2	Green	281-1966-ND◆	2.03	1.83	1.62	1798680000
	3	Green	281-1967-ND◆	3.03	2.73	2.43	1798690000
	4	Green	281-1968-ND◆	4.02	3.62	3.22	1798710000
	5	Green	281-1969-ND◆	5.01	4.51	4.01	1798720000
	6	Green	281-1970-ND◆	6.03	5.43	4.83	1798730000
	8	Green	281-1971-ND◆	8.03	7.23	6.42	1798740000
	12	Green	281-1973-ND◆	11.08	10.12	7.71	1798760000
	16	Green	281-1974-ND◆	16.07	14.46	12.86	1798770000
49	3	Green	281-1976-ND◆	3.23	2.91	2.58	1798860000
	6	Green	281-1979-ND	6.45	5.81	5.16	1798890000
	8	Green	281-1980-ND	8.60	7.74	6.88	1798900000
50	5	Black	281-2392-ND◆	5.01	4.51	4.01	1798960000
	6	Black	281-2393-ND◆	6.03	5.43	4.83	1798970000
	8	Black	281-2394-ND◆	8.03	7.23	6.42	1798170000
51	4	Green	281-1995-ND◆	4.29	3.87	3.44	1799190000
	5	Green	281-1996-ND◆	5.37	4.84	4.30	1799200000
	6	Green	281-1997-ND◆	6.45	5.81	5.16	1799210000
	8	Green	281-1998-ND◆	8.60	7.74	6.88	1799220000
	10	Green	281-1999-ND◆	9.89	9.04	6.89	1799230000
	12	Green	281-2000-ND◆	10.33	9.56	8.01	1799240000
5.00mm Omnimate – Socket Blocks — RoHS Compliant							
52	2	Black	281-1180-ND	1.50	1.35	1.16	1625610000
	2	Orange	281-2583-ND✔	1.58	1.42	1.23	1954490000
	2	Black	281-2585-ND✔	1.50	1.35	1.16	1955570000
	3	Black	281-1181-ND	2.23	2.00	1.73	1625620000
	3	Black	281-2586-ND✔	2.23	2.00	1.73	1955560000
	3	Orange	281-2629-ND✔	2.65	2.38	2.05	1954480000
	4	Black	281-1182-ND	2.94	2.64	2.27	1596080000
	4	Orange	281-2584-ND✔	3.33	2.98	2.57	1954470000
	4	Black	281-2587-ND✔	2.94	2.64	2.27	1955550000
	6	Black	281-1183-ND	4.39	3.94	3.39	1596090000
	6	Black	281-2588-ND✔	4.39	3.94	3.39	1955530000
	6	Orange	281-2630-ND✔	4.87	4.36	3.76	1954450000
	8	Black	281-1184-ND	5.98	5.36	4.61	1596110000
	8	Black	281-2589-ND✔	5.98	5.36	4.61	1955510000
	8	Orange	281-2631-ND✔	6.61	5.93	5.10	1954430000
	10	Black	281-1185-ND	7.43	6.66	5.73	1596120000
	10	Black	281-2590-ND✔	7.43	6.66	5.73	1955490000
	10	Orange	281-2632-ND✔	8.27	7.41	6.38	1954410000
	12	Black	281-1186-ND	9.69	8.69	7.48	1602990000
	12	Black	281-2591-ND✔	9.69	8.69	7.48	1955470000
	12	Orange	281-2633-ND✔	9.91	8.88	7.64	1954390000
	16	Black	281-1187-ND	12.95	11.60	9.98	1603300000
	16	Orange	281-2634-ND✔	13.61	12.20	10.49	1954350000
	24	Black	281-1188-ND	19.37	17.36	14.93	1611470000
53	3	Black	281-1190-ND	2.55	2.29	1.97	1636900000
	3	Black	281-2592-ND✔	2.55	2.29	1.97	1958640000
	4	Black	281-1191-ND	3.37	3.02	2.60	1636910000
	4	Black	281-2593-ND✔	3.37	3.02	2.60	1958630000
	6	Black	281-1192-ND	4.92	4.42	3.80	1636930000
	6	Black	281-2594-ND✔	4.92	4.42	3.80	1958610000
	10	Black	281-1194-ND	8.19	7.34	6.32	1636970000
	10	Black	281-2595-ND✔	8.19	7.34	6.32	1958570000
	12	Black	281-1195-ND	9.81	8.79	7.56	1636990000
54	2	Black	281-2669-ND✔	1.21	1.09	.94	1979270000
	3	Black	281-2670-ND✔	1.81	1.63	1.40	1979280000
	4	Black	281-2671-ND✔	2.42	2.17	1.87	1979290000
	6	Black	281-2672-ND✔	3.63	3.26	2.80	1979310000
	8	Black	281-2673-ND✔	4.84	4.34	3.73	1979330000
	10	Black	281-2674-ND✔	6.06	5.44	4.68	1979350000
	12	Black	281-2675-ND✔	7.27	6.52	5.61	1979370000
55	2	Black	281-2676-ND✔	1.54	1.38	1.19	1979460000
	3	Black	281-2677-ND✔	2.15	1.93	1.66	1979470000
	4	Black	281-2678-ND✔	2.75	2.47	2.13	1979480000
	6	Black	281-2679-ND✔	3.95	3.54	3.05	1979500000
	8	Black	281-2680-ND✔	4.90	4.39	3.78	1979520000
	10	Black	281-2681-ND✔	6.05	5.42	4.67	1979540000
	12	Black	281-2682-ND✔	7.19	6.44	5.54	1979560000
56	2	Black	281-2683-ND✔	1.73	1.55	1.34	1979790000
	3	Black	281-2684-ND✔	2.33	2.09	1.80	1979800000
	4	Black	281-2685-ND✔	2.94	2.64	2.27	1979810000
	6	Black	281-2686-ND✔	4.15	3.72	3.20	1979830000
	8	Black	281-2687-ND✔	5.36	4.80	4.13	1979850000
	10	Black	281-2688-ND✔	6.57	5.89	5.07	1979870000
	12	Black	281-2689-ND✔	7.78	6.97	6.00	1979890000
57	2	Black	281-2690-ND✔	1.73	1.55	1.34	1979980000
	3	Black	281-2691-ND✔	2.33	2.09	1.80	1979990000
	4	Black	281-2692-ND✔	2.94	2.64	2.27	1980000000
	6	Black	281-2693-ND✔	4.15	3.72	3.20	1980020000
	8	Black	281-2694-ND✔	5.36	4.80	4.13	1980040000
	10	Black	281-2695-ND✔	6.57	5.89	5.07	1980060000
	12	Black	281-2696-ND✔	7.78	6.97	6.00	1980080000
5.08mm Omnimate – Socket Blocks							
54	2	Black	281-2637-ND◆✔	1.21	1.09	.94	1000030001
	3	Black	281-2638-ND◆✔	1.81	1.63	1.40	1000040001
	4	Black	281-2639-ND◆✔	2.42	2.17	1.87	1000050001
	6	Black	281-2640-ND◆✔	3.63	3.26	2.80	1000070001
	8	Black	281-2641-ND◆✔	4.84	4.34	3.73	1000090001
	10	Black	281-2642-ND◆✔	6.06	5.44	4.68	1000110001
	12	Black	281-2643-ND◆✔	7.27	6.52	5.61	1000130001
	16	Black	281-2644-ND◆✔	9.69	8.69	7.48	1000170001
55	2	Black	281-2645-ND◆✔	1.54	1.38	1.19	1000220001
	3	Black	281-2646-ND◆✔	2.15	1.93	1.66	1000230001
	4	Black	281-2647-ND◆✔	2.75	2.47	2.13	1000240001
	6	Black	281-2648-ND◆✔	3.95	3.54	3.05	1000260001
	8	Black	281-2649-ND◆✔	5.17	4.64	3.99	1000280001
	10	Black	281-2650-ND◆✔	6.38	5.72	4.92	1000300001
	12	Black	281-2651-ND◆✔	7.59	6.80	5.85	1000320001
	16	Black	281-2652-ND◆✔	10.02	8.98	7.73	1000360001
56	2	Black	281-2653-ND◆✔	1.73	1.55	1.34	1000410001
	3	Black	281-2654-ND◆✔	2.33	2.09	1.80	1000420001
	4	Black	281-2655-ND◆✔	2.94	2.64	2.27	1000430001
	6	Black	281-2656-ND◆✔	4.15	3.72	3.20	1000450001
	8	Black	281-2657-ND◆✔	5.36	4.80	4.13	1000470001
	10	Black	281-2658-ND◆✔	6.57	5.89	5.07	1000490001
	12	Black	281-2659-ND◆✔	7.78	6.97	6.00	1000510001
	16	Black	281-2660-ND◆✔	10.20	9.14	7.86	1000550001
57	2	Black	281-2661-ND◆✔	1.73	1.55	1.34	1000640001
	3	Black	281-2662-ND◆✔	2.33	2.09	1.80	1000650001
	4	Black	281-2663-ND◆✔	2.94	2.64	2.27	1000660001
	6	Black	281-2664-ND◆✔	4.15	3.72	3.20	1000680001
	8	Black	281-2665-ND◆✔	5.36	4.80	4.13	1000700001
	10	Black	281-2666-ND◆✔	6.57	5.89	5.07	1000720001
	12	Black	281-2667-ND◆✔	7.78	6.97	6.00	1000740001
	16	Black	281-2668-ND◆✔	10.20	9.14	7.86	1000780001
58	2	Black	281-1243-ND◆	1.54	1.38	1.19	1526410000
	2	Black	281-2596-ND◆✔	1.54	1.38	1.19	1943810000
	2	Orange	281-2620-ND◆✔	1.54	1.38	1.19	1943580000
	3	Black	281-1244-ND◆	2.32	2.08	1.79	1526510000
	3	Black	281-2597-ND◆✔	2.32	2.08	1.79	1943820000
	3	Orange	281-2621-ND◆✔	2.32	2.08	1.79	1943590000
	4	Black	281-1245-ND◆	3.05	2.74	2.36	1526610000
	4	Black	281-2598-ND◆✔	3.05	2.74	2.36	1943830000
	4	Orange	281-2622-ND◆✔	3.05	2.74	2.36	1943600000
	5	Black	281-2623-ND◆✔	3.80	3.41	2.94	1943840000
	5	Orange	281-2624-ND◆✔	3.80	3.41	2.94	1943610000
	6	Black	281-1246-ND◆	4.56	4.09	3.52	1526810000
	6	Black	281-2599-ND◆✔	4.56	4.09	3.52	1943850000
	6	Orange	281-2625-ND◆✔	4.56	4.09	3.52	1943620000
	8	Black	281-1247-ND◆	6.09	5.46	4.70	1527010000
	8	Black	281-2600-ND◆✔	6.09	5.46	4.70	1943870000
	8	Orange	281-2626-ND◆✔	6.09	5.46	4.70	1943640000
	10	Black	281-1248-ND◆	7.59	6.80	5.85	1527210000
	10	Black	281-2601-ND◆✔	7.59	6.80	5.85	1943890000
	10	Orange	281-2627-ND◆✔	7.59	6.80	5.85	1943660000
	12	Black	281-1249-ND◆	9.09	8.14	7.01	1527410000
	12	Black	281-2602-ND◆✔	9.09	8.14	7.01	1943910000
	12	Orange	281-2635-ND◆✔	9.09	8.14	7.01	1943680000
	14	Black	281-2628-ND◆✔	10.38	9.31	8.01	1943930000
	16	Black	281-1250-ND◆	11.85	10.62	9.14	1527810000
	16	Black	281-2603-ND◆✔	11.85	10.62	9.14	1943950000
	16	Orange	281-2636-ND◆✔	11.85	10.62	9.14	1943720000
	24	Black	281-1251-ND◆	18.17	16.28	14.01	1528610000

◆ ***RoHS Compliant*** † Bus Version ✔ ***NEW!*** ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks. *(Continued)*

Weidmüller Terminal Blocks *(Cont.)*

Dimensions in mm

Fig. 64 – BLF 5.08/270LR *NEW!*

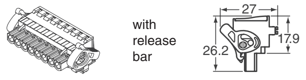

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 65 – BLF 5.08/270LH *NEW!*

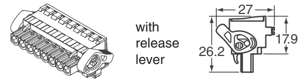

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 66 – BLF 5.08/180 *NEW!*

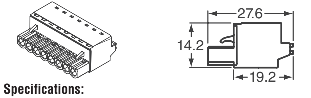

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 67 – BLF 5.08/180F *NEW!*

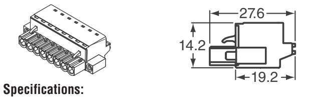

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 68 – BLF 5.08/180LR *NEW!*

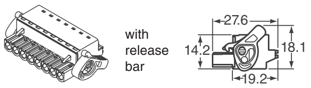

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 69 – BLF 5.08/180LH *NEW!*

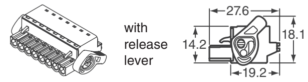

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 70 – BLDF 5.08/180 *NEW!*

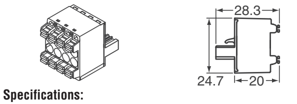

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 71 – BLDF 5.08/180F *NEW!*

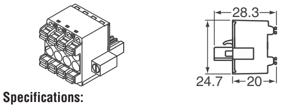

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 72 – BLDF 5.08/180LR *NEW!*

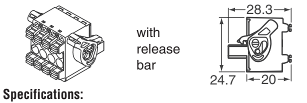

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 73 – BLDF 5.08/180LH *NEW!*

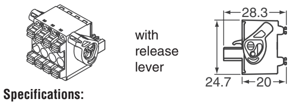

Specifications:
- PUSH IN connection • UL: 300V @ 10A • 12 ~ 26AWG

Fig. 74 – SLZF 5.08/180

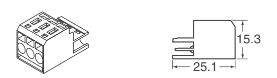

Specifications:
- Tension clamp • UL: 300V @ 10A • 12AWG

Fig. 75 – SL-SMT 3.5/180G

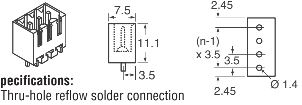

Specifications:
- Thru-hole reflow solder connection
- UL: 300V @ 10A • Pin length: 1.5mm

Fig. 76 – SL-SMT 3.5/180LF

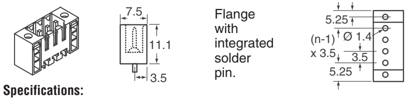

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 77 – SL-SMT 3.5/90G

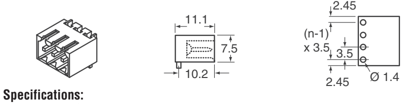

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 78 – SL-SMT 3.5/90LF

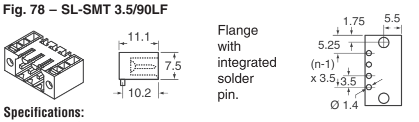

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 79 – SL-SMT 5.08/180

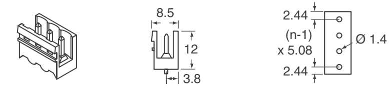

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 80 – SL-SMT 5.08/180G

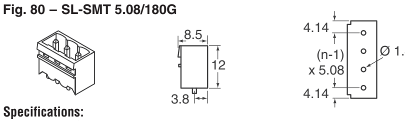

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 81 – SL-SMT 5.08/180LF

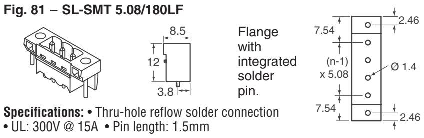

Specifications: • Thru-hole reflow solder connection
- UL: 300V @ 15A • Pin length: 1.5mm

Fig. 82 – SL-SMT 5.08/90

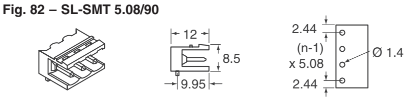

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 83 – SL-SMT 5.08/90G

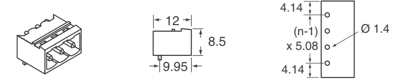

Specifications:
- Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 84 – SL-SMT 5.08/90LF

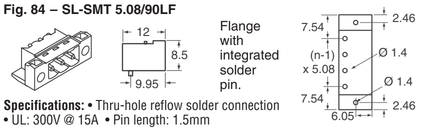

Specifications: • Thru-hole reflow solder connection
- UL: 300V @ 15A • Pin length: 1.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
59	4	Black	281-1904-ND	9.47	8.52	7.58	1499710000
	8	Black	281-1907-ND◆	18.83	16.95	15.06	1500110000
	24	Black	281-1911-ND◆	59.36	53.42	47.49	1501710000
60	2	Black	281-1252-ND◆	1.76	1.58	1.36	1552710000
	2	Black	281-2604-ND◆✔	1.76	1.58	1.36	1948240000
	3	Black	281-1253-ND◆	2.61	2.34	2.01	1552810000
	3	Black	281-2605-ND◆✔	2.61	2.34	2.01	1948250000
	4	Black	281-1254-ND◆	3.44	3.09	2.66	1552910000
	4	Black	281-2606-ND◆✔	3.44	3.09	2.66	1948260000
	6	Black	281-1255-ND◆	5.13	4.60	3.96	1553110000
	6	Black	281-2607-ND◆✔	5.13	4.60	3.96	1948280000
	8	Black	281-1256-ND◆	6.84	6.13	5.28	1553310000
	8	Black	281-2608-ND◆✔	6.84	6.13	5.28	1948300000
	10	Black	281-1257-ND◆	8.54	7.65	6.59	1553510000
	10	Black	281-2609-ND◆✔	8.54	7.65	6.59	1948320000
	12	Black	281-1258-ND◆	10.22	9.16	7.89	1553710000
	12	Black	281-2610-ND◆✔	10.22	9.16	7.89	1948340000
	16	Black	281-1259-ND◆	13.64	12.22	10.52	1554110000
	16	Black	281-2611-ND◆✔	13.64	12.22	10.52	1948380000
61	2	Black	281-1261-ND◆	1.68	1.51	1.30	1557310000
	2	Black	281-2612-ND◆✔	1.68	1.51	1.30	1949020000
	3	Black	281-1262-ND◆	2.53	2.27	1.96	1557410000
	3	Black	281-2613-ND◆✔	2.53	2.27	1.96	1949030000
	4	Black	281-1263-ND◆	3.44	3.09	2.66	1557510000
	4	Black	281-2614-ND◆✔	3.44	3.09	2.66	1949040000
	6	Black	281-2615-ND◆✔	5.03	4.51	3.88	1949060000
	8	Black	281-1265-ND◆	6.84	6.13	5.28	1557910000
	8	Black	281-2616-ND◆✔	6.84	6.13	5.28	1949080000
	10	Black	281-1266-ND◆	8.35	7.49	6.44	1558110000
	10	Black	281-2617-ND◆✔	8.35	7.49	6.44	1949100000
	12	Black	281-1267-ND◆	10.22	9.16	7.89	1558310000
	12	Black	281-2618-ND◆✔	10.22	9.16	7.89	1949120000
	16	Black	281-1268-ND◆	13.64	12.22	10.52	1558710000
	16	Black	281-2619-ND◆✔	13.64	12.22	10.52	1949160000
62	2	Black	281-2697-ND◆✔	1.21	1.09	.94	1981930000
	3	Black	281-2698-ND◆✔	1.81	1.63	1.40	1981940000
	4	Black	281-2699-ND◆✔	2.42	2.17	1.87	1981950000
	6	Black	281-2700-ND◆✔	3.63	3.26	2.80	1981970000
	8	Black	281-2701-ND◆✔	4.84	4.34	3.73	1981990000
	10	Black	281-2702-ND◆✔	6.06	5.44	4.68	1982010000
	12	Black	281-2703-ND◆✔	7.27	6.52	5.61	1982030000
	16	Black	281-2704-ND◆✔	9.69	8.69	7.48	1982070000
63	2	Black	281-2705-ND◆✔	1.54	1.38	1.19	1982120000
	3	Black	281-2706-ND◆✔	2.15	1.93	1.66	1982130000
	4	Black	281-2707-ND◆✔	2.75	2.47	2.13	1982140000
	6	Black	281-2708-ND◆✔	3.95	3.54	3.05	1982160000
	8	Black	281-2709-ND◆✔	5.17	4.64	3.99	1982180000
	10	Black	281-2710-ND◆✔	6.38	5.72	4.92	1982200000
63	12	Black	281-2711-ND◆✔	7.59	6.80	5.85	1982220000
	16	Black	281-2712-ND◆✔	10.02	8.98	7.73	1982260000
64	2	Black	281-2713-ND◆✔	1.73	1.55	1.34	1982310000
	3	Black	281-2714-ND◆✔	2.33	2.09	1.80	1982320000
	4	Black	281-2715-ND◆✔	2.94	2.64	2.27	1982330000
	6	Black	281-2716-ND◆✔	4.15	3.72	3.20	1982350000
	8	Black	281-2717-ND◆✔	5.36	4.80	4.13	1982370000
	10	Black	281-2718-ND◆✔	6.57	5.89	5.07	1982390000
	12	Black	281-2719-ND◆✔	7.78	6.97	6.00	1982410000
	16	Black	281-2720-ND◆✔	10.20	9.14	7.86	1982450000
65	2	Black	281-2721-ND◆✔	1.73	1.55	1.34	1982500000
	3	Black	281-2722-ND◆✔	2.33	2.09	1.80	1982510000
	4	Black	281-2723-ND◆✔	2.94	2.64	2.27	1982520000
	6	Black	281-2724-ND◆✔	4.15	3.72	3.20	1982540000
	8	Black	281-2725-ND◆✔	5.36	4.80	4.13	1982570000
	10	Black	281-2726-ND◆✔	6.57	5.89	5.07	1982590000
	12	Black	281-2727-ND◆✔	7.78	6.97	6.00	1982610000
	16	Black	281-2728-ND◆✔	10.20	9.14	7.86	1982650000
66	2	Black	281-2729-ND◆✔	1.17	1.05	.90	1013430000
	3	Black	281-2730-ND◆✔	1.74	1.57	1.35	1013440000
	4	Black	281-2731-ND◆✔	2.33	2.09	1.80	1013450000
	6	Black	281-2732-ND◆✔	3.50	3.14	2.70	1013470000
	8	Black	281-2733-ND◆✔	4.67	4.18	3.60	1013490000
	10	Black	281-2734-ND◆✔	5.82	5.22	4.49	1013520000
	12	Black	281-2735-ND◆✔	6.97	6.25	5.38	1013540000
	16	Black	281-2736-ND◆✔	9.32	8.35	7.19	1013580000
67	2	Black	281-2737-ND◆✔	1.50	1.35	1.16	1012640000
	3	Black	281-2738-ND◆✔	2.07	1.86	1.60	1012650000
	4	Black	281-2739-ND◆✔	2.65	2.38	2.05	1012660000
	6	Black	281-2740-ND◆✔	3.82	3.42	2.95	1012680000
	8	Black	281-2741-ND◆✔	4.61	4.13	3.56	1012710000
	10	Black	281-2742-ND◆✔	6.15	5.51	4.74	1012730000
	12	Black	281-2743-ND◆✔	7.32	6.56	5.64	1012750000
	16	Black	281-2744-ND◆✔	9.65	8.65	7.44	1012970000
68	2	Black	281-2745-ND◆✔	1.67	1.50	1.29	1014120000
	3	Black	281-2746-ND◆✔	2.26	2.03	1.75	1014130000
	4	Black	281-2747-ND◆✔	2.84	2.55	2.19	1014140000
	6	Black	281-2748-ND◆✔	4.00	3.59	3.09	1014160000
	8	Black	281-2749-ND◆✔	5.17	4.64	3.99	1014180000
	10	Black	281-2750-ND◆✔	6.34	5.68	4.89	1014210000
	12	Black	281-2751-ND◆✔	7.50	6.73	5.79	1014230000
	16	Black	281-2752-ND◆✔	9.84	8.82	7.59	1014270000
69	2	Black	281-2753-ND◆✔	1.67	1.50	1.29	1014730000
	3	Black	281-2754-ND◆✔	2.26	2.03	1.75	1014740000
	4	Black	281-2755-ND◆✔	2.84	2.55	2.19	1014750000
	6	Black	281-2756-ND◆✔	4.00	3.59	3.09	1014770000
	8	Black	281-2757-ND◆✔	5.17	4.64	3.99	1014790000
	10	Black	281-2758-ND◆✔	6.34	5.68	4.89	1014820000
	12	Black	281-2759-ND◆✔	7.50	6.73	5.79	1014840000
69	16	Black	281-2760-ND◆✔	9.84	8.82	7.59	1014880000
70	2	Black	281-2761-ND◆✔	2.23	2.00	1.73	1000860000
	3	Black	281-2762-ND◆✔	3.36	3.01	2.59	1000870000
	4	Black	281-2763-ND◆✔	4.46	4.00	3.45	1000880000
71	2	Black	281-2764-ND◆✔	2.56	2.30	1.98	1000930000
	3	Black	281-2765-ND◆✔	3.67	3.29	2.84	1000950000
	4	Black	281-2766-ND◆✔	4.80	4.30	3.70	1000960000
72	2	Black	281-2767-ND◆✔	2.75	2.47	2.13	1001010000
	3	Black	281-2768-ND◆✔	3.86	3.46	2.98	1001020000
	4	Black	281-2769-ND◆✔	4.98	4.47	3.85	1001030000
73	2	Black	281-2770-ND◆✔	2.75	2.47	2.13	1001080000
	3	Black	281-2771-ND◆✔	3.86	3.46	2.98	1001090000
	4	Black	281-2772-ND◆✔	4.98	4.47	3.85	1001100000
5.08mm Omnimate – Pin Plugs — RoHS Compliant							
74	2	Black	281-1790-ND	2.04	1.84	1.58	1709600000
	6	Black	281-1793-ND	4.38	3.93	3.38	1709640000
	8	Black	281-1794-ND	5.67	5.09	4.38	1709660000
3.50mm Omnimate – SMT Compatible PCB Pin Headers — RoHS Compliant							
75	4	Black	281-1774-ND	1.58	1.42	1.26	1753002001
	6	Black	281-1775-ND	2.37	2.14	1.90	1753022001
	16	Black	281-1779-ND	6.24	5.62	5.00	1753122001
76	8	Black	281-1785-ND	3.60	3.24	2.88	1761022001
77	2	Black	281-1754-ND	.78	.71	.63	1761542001
	3	Black	281-1755-ND	1.17	1.06	.94	1761552001
	6	Black	281-1757-ND	2.37	2.14	1.90	1761582001
	8	Black	281-1758-ND	3.08	2.77	2.46	1761602001
	16	Black	281-1761-ND	6.24	5.62	5.00	1761682001
	24	Black	281-1762-ND	9.15	8.24	7.32	1761762001
78	2	Black	281-1763-ND	.93	.84	.75	1762002001
	12	Black	281-1769-ND	5.36	4.82	4.29	1762102001
5.08mm Omnimate – SMT Compatible PCB Pin Headers							
79	2	Black	281-1610-ND◆	.63	.57	.49	1775522001
80	3	Black	281-1621-ND◆	.94	.84	.73	1775932001
	4	Black	281-1622-ND◆	1.25	1.13	.97	1775942001
81	4	Black	281-1632-ND◆	1.58	1.42	1.26	1776382001
	5	Black	281-1633-ND	1.85	1.67	1.48	1776392001
	6	Black	281-1634-ND	2.04	1.84	1.58	1776402001
82	3	Black	281-1641-ND◆	.98	.88	.78	1774772001
	5	Black	281-1643-ND◆	1.56	1.40	1.20	1774792001
83	2	Black	281-1660-ND◆	.63	.57	.49	1775002001
	3	Black	281-1661-ND◆	.94	.84	.73	1775012001
	4	Black	281-1662-ND◆	1.25	1.13	.97	1775022001
	6	Black	281-1664-ND◆	1.84	1.66	1.43	1775042001
	12	Black	281-1667-ND◆	3.83	3.45	3.06	1775102001
84	2	Black	281-1650-ND◆	1.02	.92	.79	1775232001
	3	Black	281-1651-ND	1.25	1.13	.97	1775242001
	4	Black	281-1652-ND◆	1.51	1.36	1.17	1775252001
	10	Black	281-1656-ND◆	3.37	3.02	2.60	1775312001

◆ ***RoHS Compliant*** † Bus Version ✔ ***NEW!*** ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

Amphenol® Pcd

FXP FlexiPlug® Hybrid Pluggable Block, .200”(5.08mm)

FXP FlexiPlug hybrid terminal blocks combine U.S.-style standard screwdriver barrier-block wire terminations with a European-style pluggable block nose; and will mate with both Amphenol Pcd and competitive headers. FlexiPlugs can be used interchangeably with moving cage clamp style plugs, such as ELF and both plug styles can be used in the same system.
Specifications: • Current rating: 15A • Operating voltage: 300V • Dielectric withstanding: <3000V • Color: Black **Installation:** • Wire range: 12-26AWG • Recommended tightening torque: 12lb-in. (1.35N-m) • Screwdriver: #2 Phillips, 1/4” blade **Approvals:** UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — Uneven Configuration

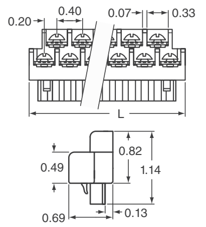

Fig. 2 — Even Configuration

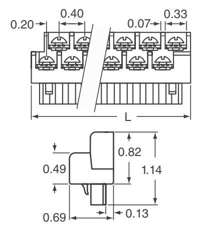

Fig. 3 — Uneven Configuration with Ears

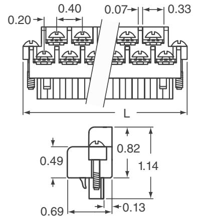

Fig.	No. of Positions	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
1	3	0.87	APC1134-ND	3.09	2.38	2.14	FXPT03200
	5	1.27	APC1135-ND	4.79	3.72	3.30	FXPT05200
	7	1.67	APC1136-ND	6.06	4.71	4.18	FXPT07200
	9	2.07	APC1137-ND	6.99	5.65	5.12	FXPT09200
	11	2.47	APC1138-ND	8.55	6.91	6.26	FXPT11200
2	2	0.67	APC1139-ND	2.18	1.68	1.51	FXPT02200
	4	1.07	APC1140-ND	3.83	2.97	2.64	FXPT04200
	6	1.47	APC1141-ND	5.22	4.05	3.60	FXPT06200
	8	1.87	APC1142-ND	6.93	5.38	4.78	FXPT08200
	10	2.27	APC1143-ND	7.77	6.28	5.69	FXPT10200
	12	2.67	APC1144-ND	8.55	6.91	6.26	FXPT12200
3	3	1.04	APC1145-ND	3.51	2.73	2.42	FXPT03200E
	5	1.44	APC1146-ND	5.28	4.10	3.64	FXPT05200E
	7	1.84	APC1147-ND	6.38	4.95	4.40	FXPT07200E
	9	2.24	APC1148-ND	7.05	5.70	5.15	FXPT09200E
	11	2.64	APC1149-ND	8.40	6.79	6.14	FXPT11200E

ELFH Headers with Ejector Ears/Locking Ears

The ELFH Series ejector ear header allows for plug disconnect with a minimal amount of effort by way of screwdriver or finger actuation of the levered ears. The universal design accepts ELF Series plugs or FXP Series Flexiplug™ connectors. ELFH Series headers mate with ELF Series plugs and accommodate competitive plugs as well. **Specifications:** • Current rating: 15A • Operating voltage: 300V • Dielectric withstanding: <3000V • Color: Black header, gray ears **Materials:** • Housing: PBT, UL 94V-0, Black • Contact: Copper alloy, optional finish **Approvals:** UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — Right Angle with Ejector Ears

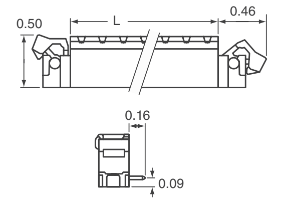

Fig. 2 — Vertical with Ejector Ears

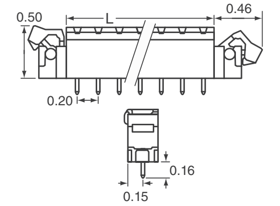

Fig. 3 — Closed Ends

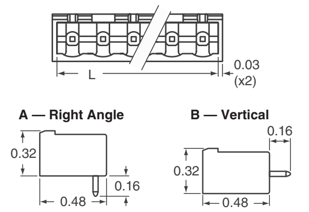

Fig. 4 — With Mounting Ears

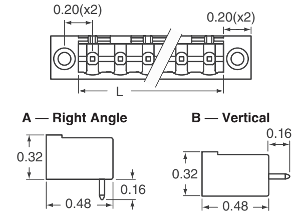

Fig.	Number of Positions	Dimension L (Inch)	Centerline Spacing (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
1	8	2.53	0.20	APC1150-ND	2.80	2.15	1.94	ELFH08210J
	9	2.73	0.20	APC1151-ND	3.12	2.40	2.16	ELFH09210J
	10	2.93	0.20	APC1152-ND	3.10	2.41	2.14	ELFH10210J
	11	3.13	0.20	APC1153-ND	3.39	2.64	2.34	ELFH11210J
	12	3.33	0.20	APC1154-ND	3.42	2.66	2.36	ELFH12210J
2	8	2.53	0.20	APC1155-ND	2.80	2.15	1.94	ELFH08250J
	9	2.73	0.20	APC1156-ND	3.12	2.40	2.16	ELFH09250J
	10	2.93	0.20	APC1157-ND	3.10	2.41	2.14	ELFH10250J
	11	3.13	0.20	APC1158-ND	3.39	2.64	2.34	ELFH11250J
	12	3.33	0.20	APC1159-ND	3.42	2.66	2.36	ELFH12250J
3A	2	0.59	0.30	APC1199-ND	1.10	.66	.60	ELFH02410
	3	0.89	0.30	APC1200-ND	1.25	.91	.83	ELFH03410
	4	1.19	0.30	APC1201-ND	1.60	1.16	1.05	ELFH04410
3A	5	1.49	0.30	APC1202-ND	1.79	1.38	1.24	ELFH05410
	6	1.79	0.30	APC1203-ND	1.92	1.48	1.33	ELFH06410
	7	2.09	0.30	APC1204-ND	2.24	1.73	1.56	ELFH07410
	8	2.39	0.30	APC1205-ND	2.57	1.98	1.78	ELFH08410
	2	0.40	0.20	APC1258-ND	.95	.57	.52	ELFH02210
	3	0.60	0.20	APC1259-ND	1.10	.80	.73	ELFH03210
	4	0.80	0.20	APC1260-ND	1.44	1.05	.95	ELFH04210
	5	1.00	0.20	APC1261-ND	1.82	1.32	1.20	ELFH05210
	6	1.20	0.20	APC1262-ND	1.86	1.43	1.29	ELFH06210
	7	1.40	0.20	APC1263-ND	1.95	1.50	1.35	ELFH07210
	8	1.60	0.20	APC1264-ND	2.24	1.73	1.56	ELFH08210
	9	1.80	0.20	APC1265-ND	2.50	1.93	1.74	ELFH09210
	10	2.00	0.20	APC1266-ND	2.80	2.15	1.94	ELFH10210
	11	2.20	0.20	APC1267-ND	3.06	2.35	2.12	ELFH11210
	12	2.40	0.20	APC1268-ND	3.06	2.35	2.12	ELFH12210
3B	2	0.59	0.30	APC1206-ND	1.10	.66	.60	ELFH02450
	3	0.89	0.30	APC1207-ND	1.25	.91	.83	ELFH03450
	4	1.19	0.30	APC1208-ND	1.60	1.16	1.05	ELFH04450
	5	1.49	0.30	APC1209-ND	1.79	1.38	1.24	ELFH05450
	6	1.79	0.30	APC1210-ND	1.92	1.48	1.33	ELFH06450
	7	2.09	0.30	APC1211-ND	2.24	1.73	1.56	ELFH07450
	8	2.39	0.30	APC1212-ND	2.57	1.98	1.78	ELFH08450
	2	0.40	0.20	APC1242-ND	.95	.57	.52	ELFH02250
	3	0.60	0.20	APC1243-ND	1.10	.80	.73	ELFH03250
	4	0.80	0.20	APC1244-ND	1.44	1.05	.95	ELFH04250
	5	1.00	0.20	APC1245-ND	1.82	1.32	1.20	ELFH05250
	6	1.20	0.20	APC1246-ND	1.69	1.30	1.17	ELFH06250
	7	1.40	0.20	APC1247-ND	1.95	1.50	1.35	ELFH07250
	8	1.60	0.20	APC1248-ND	2.24	1.73	1.56	ELFH08250
	9	1.80	0.20	APC1249-ND	2.50	1.93	1.74	ELFH09250
	10	2.00	0.20	APC1250-ND	2.80	2.15	1.94	ELFH10250
	11	2.20	0.20	APC1251-ND	3.06	2.35	2.12	ELFH11250
	12	2.40	0.20	APC1252-ND	3.06	2.35	2.12	ELFH12250
4A	3	1.00	0.20	APC1269-ND	2.21	1.70	1.53	ELFH03210E
	5	1.40	0.20	APC1270-ND	2.83	2.18	1.96	ELFH05210E
	7	1.80	0.20	APC1271-ND	3.22	2.48	2.23	ELFH07210E
	9	2.20	0.20	APC1272-ND	3.36	2.61	2.32	ELFH09210E
	11	2.60	0.20	APC1273-ND	3.86	3.00	2.66	ELFH11210E
4B	3	1.00	0.20	APC1253-ND	2.21	1.70	1.53	ELFH03250E
	5	1.40	0.20	APC1254-ND	2.83	2.18	1.96	ELFH05250E
	7	1.80	0.20	APC1255-ND	3.22	2.48	2.23	ELFH07250E
	9	2.20	0.20	APC1256-ND	3.36	2.61	2.32	ELFH09250E
	11	2.60	0.20	APC1257-ND	3.86	3.00	2.66	ELFH11250E

ELF and SCFF Series Headers, Plugs and Accessories

The ELF line comprises a family of durable, high-temperature plug and headers on .200” and 5.0mm spacing that provide flexible wire-to-board interconnect solutions for a wide variety of applications. The ELF mates interchangeably with .200” and 5.0mm competitive plugs and headers, but offers significant advantages in materials, design and performance. Screwless spring-clamp wire terminations designed to simplify installation and reduce time and labor are a feature of Amphenol Pcd's SC line of wire-to-board terminal blocks and two-piece plug and header interconnects. SCFF .200” spacing spring-clamp plugs utilize a stainless steel clamping spring to provide “screwless” wire termination. Convenient “front-front” design permits both wire entry and spring actuation from the same connector surface, simplifying operation. SCFF plugs mate with the complete range of ELF headers. Both Series are UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — ELFA Series

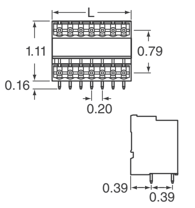

Fig. 2 — ELFP-P Series

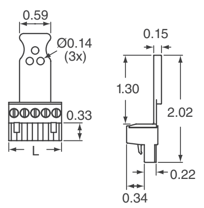

Fig. 3 — ELFF Series

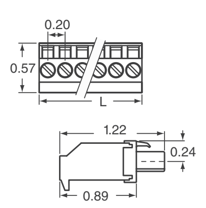

Fig. 4 — ELFP Series

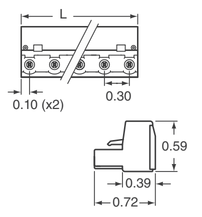

Fig. 5 — ELFT Series

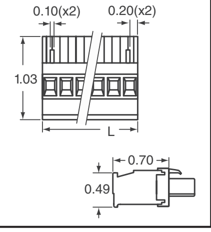

Fig. 6 — SCFF Series

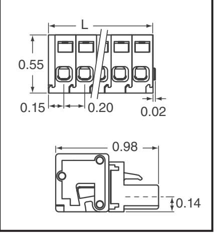

Fig.	Number of Positions	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
ELFA Series 2-Tier Headers, Right Angle								
1	4	0.20	0.47	APC1160-ND	1.79	1.30	1.18	ELFA04110
	6	0.20	0.67	APC1161-ND	2.31	1.78	1.60	ELFA06110
	8	0.20	0.87	APC1162-ND	3.06	2.35	2.12	ELFA08110
	10	0.20	1.07	APC1163-ND	3.39	2.64	2.34	ELFA10110
	12	0.20	1.26	APC1164-ND	4.09	3.18	2.82	ELFA12110

(Continued)

Amphenol® Pcd

ELF and SCFF Series Headers, Plugs and Accessories *(Cont.)*

Fig.	Number of Positions	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
1	14	0.20	1.46	APC1165-ND	4.76	3.69	3.28	ELFA14110
	16	0.20	1.66	APC1166-ND	5.42	4.21	3.74	ELFA16110
	18	0.20	1.85	APC1167-ND	6.12	4.75	4.22	ELFA18110
	20	0.20	2.05	APC1168-ND	6.79	5.27	4.68	ELFA20110
ELFP-P Series Plugs with Strain Relief, Right Angle								
2	3	0.20	0.60	APC1169-ND	3.39	2.64	2.34	ELFP0321P0
	4	0.20	0.80	APC1170-ND	4.52	3.51	3.12	ELFP0421P0
	5	0.20	1	APC1171-ND	5.63	4.37	3.88	ELFP0521P0
	6	0.20	1.20	APC1172-ND	6.76	5.25	4.66	ELFP0621P0
	7	0.20	1.40	APC1173-ND	7.07	5.72	5.17	ELFP0721P0
ELFF Series Plugs with Top Entry								
3	2	0.20	0.40	APC1174-ND	1.98	1.53	1.38	ELFF02230
	3	0.20	0.60	APC1175-ND	2.93	2.25	2.03	ELFF03230
	4	0.20	0.80	APC1176-ND	3.48	2.70	2.40	ELFF04230
	5	0.20	1.00	APC1177-ND	4.35	3.38	3.00	ELFF05230
	6	0.20	1.20	APC1178-ND	4.70	3.65	3.24	ELFF06230
	7	0.20	1.40	APC1179-ND	5.48	4.26	3.78	ELFF07230
	8	0.20	1.60	APC1180-ND	6.26	4.86	4.32	ELFF08230
	9	0.20	1.80	APC1181-ND	7.05	5.47	4.86	ELFF09230
	10	0.20	2.00	APC1182-ND	7.02	5.67	5.13	ELFF10230
	11	0.20	2.20	APC1183-ND	7.72	6.24	5.65	ELFF11230
	12	0.20	2.40	APC1184-ND	8.37	6.77	6.12	ELFF12230
ELFP Series Plugs, Right Angle								
4	2	0.30	0.50	APC1185-ND	2.18	1.68	1.51	ELFP02410
	3	0.30	0.70	APC1186-ND	2.93	2.28	2.02	ELFP03410
	4	0.30	0.90	APC1187-ND	3.89	3.02	2.68	ELFP04410
	5	0.30	1.10	APC1188-ND	4.90	3.81	3.38	ELFP05410
	6	0.30	1.30	APC1189-ND	5.86	4.55	4.04	ELFP06410
	7	0.30	1.50	APC1190-ND	6.84	5.31	4.72	ELFP07410
	8	0.30	1.70	APC1191-ND	6.99	5.65	5.12	ELFP08410
ELFT Series Plugs with Top Entry								
5	2	0.30	0.50	APC1192-ND	2.18	1.68	1.51	ELFT02450
	3	0.30	0.80	APC1193-ND	2.93	2.28	2.02	ELFT03450
	4	0.30	1.10	APC1194-ND	3.89	3.02	2.68	ELFT04450
	5	0.30	1.40	APC1195-ND	4.90	3.81	3.38	ELFT05450
	6	0.30	1.70	APC1196-ND	5.86	4.55	4.04	ELFT06450
	7	0.30	2.00	APC1197-ND	6.84	5.31	4.72	ELFT07450
	8	0.30	2.30	APC1198-ND	6.99	5.65	5.12	ELFT08450
SCFF Series Spring Clamp Plugs								
6	2	0.20	0.46	APC1235-ND	1.85	1.43	1.29	SCFF02210
	3	0.20	0.66	APC1236-ND	2.80	2.15	1.94	SCFF03210
	4	0.20	0.86	APC1237-ND	3.31	2.57	2.28	SCFF04210
	5	0.20	1.06	APC1238-ND	4.15	3.22	2.86	SCFF05210
	6	0.20	1.26	APC1239-ND	4.96	3.85	3.42	SCFF06210
	7	0.20	1.46	APC1240-ND	5.80	4.50	4.00	SCFF07210
	8	0.20	1.66	APC1241-ND	6.61	5.13	4.56	SCFF08210

ELFB Series Inverted Male Headers

ELFB inverted headers are board-mounted solder pin headers which incorporate a mating configuration that is identical to a standard ELF family plug. The ELFB, in effect, is a board-mount plug. It features a plug-like nose and twin-beam plug contacts, and will mate with standard ELF-family pin headers, or similar competitive headers, providing board-to board interconnect capability. **Specifications:** • Current Rating: 15A • Operating Voltage: 300V **Approvals:** UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — Right Angle

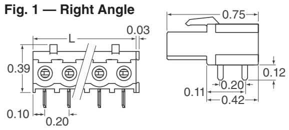

Fig. 2 — Vertical

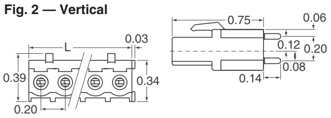

Fig.	Number of Positions	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
Right Angle								
1	2	0.20	0.40	APC1213-ND	1.15	.69	.63	ELFB02230
	3	0.20	0.60	APC1214-ND	1.33	.97	.88	ELFB03230
	4	0.20	0.80	APC1215-ND	1.75	1.27	1.15	ELFB04230
	5	0.20	1.00	APC1216-ND	1.85	1.43	1.29	ELFB05230
	6	0.20	1.20	APC1217-ND	2.24	1.73	1.56	ELFB06230
	7	0.20	1.40	APC1218-ND	2.60	2.00	1.80	ELFB07230
	8	0.20	1.60	APC1219-ND	2.99	2.30	2.07	ELFB08230
	9	0.20	1.80	APC1220-ND	2.99	2.32	2.06	ELFB09230
	10	0.20	2.00	APC1221-ND	3.31	2.57	2.28	ELFB10230
	11	0.20	2.20	APC1222-ND	3.65	2.84	2.52	ELFB11230
	12	0.20	2.40	APC1223-ND	3.97	3.09	2.74	ELFB12230
Vertical								
2	2	0.20	0.40	APC1224-ND	1.15	.69	.63	ELFB02280
	3	0.20	0.60	APC1225-ND	1.33	.97	.88	ELFB03280
	4	0.20	0.80	APC1226-ND	1.75	1.27	1.15	ELFB04280
	5	0.20	1.00	APC1227-ND	1.85	1.43	1.29	ELFB05280
	6	0.20	1.20	APC1228-ND	2.24	1.73	1.56	ELFB06280
	7	0.20	1.40	APC1229-ND	2.60	2.00	1.80	ELFB07280
	8	0.20	1.60	APC1230-ND	2.99	2.30	2.07	ELFB08280
	9	0.20	1.80	APC1231-ND	2.99	2.32	2.06	ELFB09280
	10	0.20	2.00	APC1232-ND	3.31	2.57	2.28	ELFB10280
	11	0.20	2.20	APC1233-ND	3.65	2.84	2.52	ELFB11280
	12	0.20	2.40	APC1234-ND	3.97	3.09	2.74	ELFB12280

High Current Terminal Blocks

Dimensions in Inches

Fig. 1 — ESPM Series

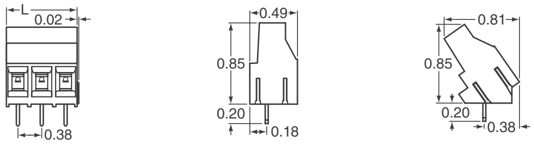
A — Right Angle

B — Angled

Fig.	Number of Positions	Voltage Rating (V)	Current Rating (A)	Pitch (Inch)	Dim. L (Inch)	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
ESPM Series — Right Angle										
1A	2	600	32	0.375	0.75	APC1274-ND	1.79	1.30	1.18	ESPM02200
	3	600	32	0.375	1.13	APC1275-ND	2.31	1.78	1.60	ESPM03200
ESPM Series — Angled										
1B	2	600	32	0.375	0.75	APC1276-ND	1.66	1.28	1.15	ESPM02230
	3	600	32	0.375	1.13	APC1277-ND	2.50	1.93	1.74	ESPM03230

DIN Rail and Bus Bar Mounted Terminal Blocks

Fig. 1 — ATB2, ATB4, ATB6, ATB10

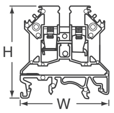

Fig. 2 — ATB50, ATB95

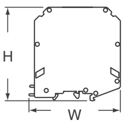

Fig. 3 — ATBB35, ATBB70, ATBB95

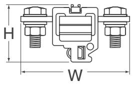

Fig. 4 — ATBB5

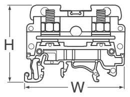

Fig.	Pitch (mm)	Voltage Rating (V)	Current Rating (A)	Wire Range (AWG)	Dimensions (mm) H X W	Digi-Key Part No.	Price Each 1	25	50	Amphenol Pcd Part No.
1	5	600	20	24-14	45 x 43	APC1281-ND	1.63	1.25	1.13	ATB2
	6	600	40†	22-10	45 x 43	APC1282-ND	1.98	1.53	1.38	ATB4
	8	600	50	22-8	47 x 43	APC1283-ND	2.54	1.95	1.76	ATB6
	10	600	65	20-6	47 x 43	APC1284-ND	2.90	2.25	2.00	ATB10
2	20.5	600	150	6-2/0	75.5 x 71	APC1285-ND	14.04	12.29	11.66	ATB50
	25	600	230	2-4/0	90 x 83	APC1286-ND	19.50	18.20	17.55	ATB95
3	28	600	145	8-2	49 x 75	APC1288-ND	10.00	8.75	8.30	ATBB35
	40	600	250	8-2/0	49 x 98	APC1289-ND	14.00	12.25	11.62	ATBB70
	40	600	300	8-4/0	49 x 130	APC1290-ND	16.15	14.78	13.78	ATBB95
4	17	600	80	22-4	44.5 x 50	APC1287-ND	6.50	5.25	4.75	ATBB5

† 40A with 2 numbers of 12AWG wire; 35A with 1 number of 10AWG wire.

AMERICAN ELECTRICAL INC.

Crimp Wire Ferrules (For Use with European Style Terminal Blocks)

Wire Ferrules – Insulated

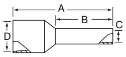

Material: Copper/Plastic **Surface:** Tin-plated

Size (mm2)	AWG	Type	Color Code	Dimensions (mm)				Digi-Key Part No.	Pricing			AE Part No.
				A	B	C	D		10	50	100	
0.14	26	DIN	Gray	10.5	6.0	0.8	2.0	288-1001-ND*	2.32	10.15	17.40	1161014
		DIN	Gray	12.5	8.0	0.8	2.0	288-1002-ND*	2.48	10.85	18.60	1181014
		W	Gray	10.5	6.0	0.8	2.0	288-1039-ND*	2.32	10.15	17.40	1162014
		W	Gray	12.5	8.0	0.8	2.0	288-1040-ND* ***NEW!***	2.48	10.85	18.60	1182014
0.25	24	DIN	Yellow	10.5	6.0	0.8	2.0	288-1003-ND*	2.32	10.15	17.40	11610025
		DIN	Yellow	12.5	8.0	0.8	2.0	288-1004-ND*	2.48	10.85	18.60	11810025
		W	Blue	10.5	6.0	0.8	2.0	288-1041-ND*	2.32	10.15	17.40	11620025
		W	Blue	12.5	8.0	0.8	2.0	288-1042-ND*	2.48	10.85	18.60	11820025
0.34	22	DIN	Turquoise	10.5	6.0	0.8	2.0	288-1005-ND*	2.32	10.15	17.40	1161034
		DIN	Turquoise	12.5	8.0	0.8	2.0	288-1006-ND*	2.48	10.85	18.60	1181034
		W	Turquoise	10.5	6.0	0.8	2.0	288-1043-ND*	2.32	10.15	17.40	1162034
		W	Turquoise	12.5	8.0	0.8	2.0	288-1044-ND*	2.48	10.85	18.60	1182034
0.50	20	DIN	White	11.5	6.0	1.1	2.5	288-1007-ND	1.68	7.35	12.60	1161050
		DIN	White	13.5	8.0	1.1	2.5	288-1008-ND	1.20	5.25	9.00	1181050
		DIN	White	15.5	10.0	1.1	2.5	288-1009-ND	1.68	7.35	12.60	11101050
		W	Orange	11.5	6.0	1.1	2.5	288-1045-ND	1.68	7.35	12.60	1162050
		W	Orange	13.5	8.0	1.1	2.5	288-1046-ND	1.20	5.25	9.00	1182050
		W	Orange	15.5	10.0	1.1	2.5	288-1047-ND	1.68	7.35	12.60	11102050
0.75	20	DIN	Gray	12.0	6.0	1.3	2.8	288-1010-ND	1.76	7.70	13.20	1161075
		DIN	Gray	14.0	8.0	1.3	2.8	288-1011-ND	1.20	5.25	9.00	1181075
		DIN	Gray	16.0	10.0	1.3	2.8	288-1012-ND	1.76	7.70	13.20	11101075
		DIN	Gray	18.0	12.0	1.3	2.8	288-1013-ND	1.76	7.70	13.20	11121075
		W	White	12.0	6.0	1.3	2.8	288-1048-ND	1.76	7.70	13.20	1162075
		W	White	14.0	8.0	1.3	2.8	288-1049-ND	1.20	5.25	9.00	1182075
1.00	18	DIN	Red	12.5	6.0	1.5	3.0	288-1014-ND	2.00	8.75	15.00	1161010
		DIN	Red	14.5	8.0	1.5	3.0	288-1015-ND	1.28	5.60	9.60	1181010
		DIN	Red	16.5	10.0	1.5	3.0	288-1016-ND	2.00	8.75	15.00	11101010
		DIN	Red	18.5	12.0	1.5	3.0	288-1017-ND ***NEW!***	2.00	8.75	15.00	11121010
		W	Yellow	12.5	6.0	1.5	3.0	288-1052-ND	2.00	8.75	15.00	1162010
		W	Yellow	14.5	8.0	1.5	3.0	288-1053-ND	1.28	5.60	9.60	1182010
		W	Yellow	16.5	10.0	1.5	3.0	288-1054-ND	2.00	8.75	15.00	11102010
		W	Yellow	18.5	12.0	1.5	3.0	288-1055-ND	2.00	8.75	15.00	11122010
1.50	16	DIN	Black	12.5	6.0	1.8	3.4	288-1018-ND*	2.80	12.25	21.00	1161015
		DIN	Black	14.5	8.0	1.8	3.4	288-1019-ND	1.76	7.70	13.20	1181015
		DIN	Black	16.5	10.0	1.8	3.4	288-1020-ND	2.80	12.25	21.00	11101015
		DIN	Black	18.5	12.0	1.8	3.4	288-1021-ND	2.80	12.25	21.00	11121015
		DIN	Black	12.5	6.0	1.8	3.4	288-1056-ND*	2.80	12.25	21.00	1162015
		W	Red	14.5	8.0	1.8	3.4	288-1057-ND	1.76	7.70	13.20	1182015
		W	Red	16.5	10.0	1.8	3.4	288-1058-ND	2.80	12.25	21.00	11102015
		W	Red	18.5	12.0	1.8	3.4	288-1059-ND ***NEW!***	2.80	12.25	21.00	11122015
2.08	14	DIN	Yellow	14.5	8.0	2.05	3.6	288-1023-ND*	2.20	9.63	16.50	1181208
		W	Yellow	14.5	8.0	2.05	3.6	288-1061-ND* ***NEW!***	2.20	9.63	16.50	1182208
2.50	14	DIN	Blue	15.0	8.0	2.3	4.2	288-1024-ND	1.76	7.70	13.20	1181025
		DIN	Blue	19.0	12.0	2.3	4.2	288-1025-ND	2.40	10.50	18.00	11121025
		W	Blue	15.0	8.0	2.3	4.2	288-1062-ND	1.76	7.70	13.20	1182025
		W	Blue	19.0	12.0	2.3	4.2	288-1063-ND	2.40	10.50	18.00	11122025
4.00	12	DIN	Gray	17.5	10.0	2.9	4.8	288-1027-ND	2.88	12.60	21.60	11101040
		DIN	Gray	20.0	12.0	2.9	4.8	288-1028-ND	2.88	12.60	21.60	11121040
		DIN	Gray	26.0	18.0	2.9	4.8	288-1029-ND ***NEW!***	3.68	16.10	27.60	11181040
		W	Gray	17.5	10.0	2.9	4.8	288-1065-ND	2.88	12.60	21.60	11102040
		W	Gray	20.0	12.0	2.9	4.8	288-1066-ND	2.88	12.60	21.60	11122040
6.00	10	DIN	Yellow	20.0	12.0	3.6	6.2	288-1030-ND	3.80	16.63	28.50	11121060
		W	Black	20.0	12.0	3.6	6.2	288-1068-ND	3.80	16.63	28.50	11122060
10.00	8	DIN	Red	21.0	12.0	4.6	7.5	288-1032-ND	3.80	16.63	28.50	11121100
		DIN	Red	27.0	18.0	4.6	7.5	288-1033-ND ***NEW!***	6.40	28.00	48.00	11181100
		W	Ivory	21.0	12.0	4.6	7.5	288-1070-ND ***NEW!***	3.80	16.63	28.50	11122100
16.00	6	DIN	Blue	23.0	12.0	6.0	8.8	288-1034-ND	5.20	22.75	39.00	11121160
25.00	4	DIN	Yellow	29.0	16.0	7.5	11.0	288-1036-ND	13.20	57.75	99.00	11161250
		W	Brown	29.0	16.0	7.5	11.0	288-1074-ND ***NEW!***	13.20	57.75	99.00	11162250

* Does not conform to DIN 46228 Part 4

Note: For additional sizes, please visit our web site.

Assortment Boxes

288-1147-ND	**Assortment Box 1 — 150 pieces DIN Type** (30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00)	**$50.00**
288-1153-ND	**Assortment Box 1 — 150 pieces W Type** (30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00)	**$50.00**
288-1148-ND	**Assortment Box 2 — 400 pieces DIN Type** (50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50)	**$75.00**
288-1154-ND	**Assortment Box 2 — 400 pieces W Type** (50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50)	**$75.00**
288-1149-ND	**Assortment Box 3 — 100 pieces DIN Type** (50 pieces of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00)	**$62.50**
288-1155-ND	**Assortment Box 3 — 100 pieces W Type** (50 pieces of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00)	**$62.50**
288-1156-ND	**Assortment Box 7 — 1,800 pieces** (500 pieces of size 0.50; 400 pieces each of sizes 0.75 and 1.00; 300 pieces of size 1.50; 200 pieces of Size 2.50)	**$87.50**
288-1157-ND	**Assortment Box 8 — 370 pieces** (150 pieces of size 4.00; 100 pieces of size 6.00; 80 pieces of size 10.00; 40 pieces of size 16.00)	**$75.00**

Crimp Kit

Features: • Convenient and Portable Metal Carrying Case • Insulated Ferrules • Ferrule Assortment from 10-24 AWG • Stripping and Crimping Tool Included • Great for Technicians and Prototyping

288-1238-ND	(AE Part # CRIMPKIT)	**$490.00**

Twin-Wire Ferrules for Two Wires

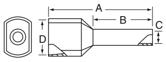

Material: Copper/Plastic **Surface:** Tin-plated

Size (mm2)	AWG	Color	Dimensions (mm)				Digi-Key Part No.	Pricing			AE Part No.
			A	B	C	D		10	50	100	
0.50	2 x 20	White	15.0	8.0	1.5	2.3 / 4.5	288-1124-ND	1.60	7.00	12.00	1381050
		Orange	15.0	8.0	1.5	2.3 / 4.5	288-1384-ND ***NEW!***	1.60	7.00	12.00	1382050
0.75	2 x 20	Gray	15.0	8.0	1.8	2.6 / 5.1	288-1125-ND	1.60	7.00	12.00	1381075
		White	15.0	8.0	1.8	2.6 / 5.1	288-1385-ND ***NEW!***	2.60	11.38	19.50	1382075
		Gray	17.0	10.0	1.8	2.6 / 5.1	288-1126-ND	2.04	8.93	15.30	13101075
		White	17.0	10.0	1.8	2.6 / 5.1	288-1386-ND ***NEW!***	2.16	9.45	16.20	13102075
1.00	2 x 18	Red	15.0	8.0	2.05	3.2 / 5.1	288-1127-ND	1.88	8.23	14.10	1381010
		Yellow	15.0	8.0	2.05	3.2 / 5.1	288-1387-ND ***NEW!***	1.60	7.00	12.00	1382010
		Red	17.0	10.0	2.05	3.2 / 5.1	288-1128-ND	2.60	11.38	19.50	13101010
		Yellow	17.0	10.0	2.05	3.2 / 5.1	288-1388-ND ***NEW!***	2.04	8.93	15.30	13102010
1.50	2 x 16	Black	16.0	8.0	2.3	3.5 / 6.4	288-1129-ND	2.24	9.80	16.80	1381015
		Red	16.0	8.0	2.3	3.5 / 6.4	288-1389-ND ***NEW!***	1.60	7.00	12.00	1382015
		Black	20.0	12.0	2.3	3.5 / 6.4	288-1130-ND	3.20	14.00	24.00	13121015
		Red	20.0	12.0	2.3	3.5 / 6.4	288-1390-ND ***NEW!***	3.20	14.00	24.00	13122015
2.50	2 x 14	Blue	18.5	10.0	2.9	4.0 / 7.5	288-1131-ND	3.20	14.00	24.00	13101025
		Blue	21.5	13.0	2.9	4.0 / 7.5	288-1132-ND	3.20	14.00	24.00	13131025
4.00	2 x 12	Gray	23.0	12.0	3.8	4.9 / 8.6	288-1133-ND	5.80	25.38	43.50	13121040
6.00	2 x 10	Yellow	25.0	14.0	4.9	5.8 / 9.6	288-1134-ND	6.20	27.13	46.50	13141060
		Black	25.0	14.0	4.9	5.8 / 9.6	288-1391-ND ***NEW!***	10.00	43.75	75.00	13142060
10.0	2 x 8	Red	26.0	14.0	6.5	7.0 / 12.6	288-1135-ND	7.60	33.25	57.00	13141100
		Ivory	26.0	14.0	6.5	7.0 / 12.6	288-1392-ND ***NEW!***	10.00	43.75	75.00	13142100
16.0	2 x 6	Blue	31.0	16.0	8.5	8.8 / 16.6	288-1136-ND	20.00	87.50	150.00	13161160

Wire Ferrules – Non-Insulated

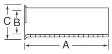

Material: Copper **Surface:** Tin-plated

Size (mm2)	AWG	Dimensions (mm)			Digi-Key Part No.	Pricing			AE Part No.
		A	B	C		10	50	100	
0.25	24	5	0.8	1.7	288-1077-ND*	.60	2.63	4.50	12510025
	24	7	0.8	1.7	288-1078-ND*	.60	2.63	4.50	12710025
0.34	22	5	0.9	1.8	288-1079-ND*	.64	2.80	4.80	12510034
	22	7	0.9	1.8	288-1080-ND*	.64	2.80	4.80	12710034
0.50	20	6	1.0	2.1	288-1081-ND	.68	2.98	5.10	12610050
	20	8	1.0	2.1	288-1082-ND*	.72	3.15	5.40	12810050
	20	10	1.0	2.1	288-1083-ND	.72	3.15	5.40	121010050
0.75	20	6	1.2	2.3	288-1084-ND	.84	3.68	6.30	12610075
	20	8	1.2	2.3	288-1085-ND*	.84	3.68	6.30	12810075
	20	10	1.2	2.3	288-1086-ND	.88	3.85	6.60	121010075
	20	12	1.2	2.3	288-1087-ND	.96	4.20	7.20	121210075
1.00	18	6	1.4	2.5	288-1088-ND	.88	3.85	6.60	12610100
	18	7	1.4	2.5	288-1089-ND	.88	3.85	6.60	12710100
	18	8	1.4	2.5	288-1090-ND*	.88	3.85	6.60	12810100
	18	10	1.4	2.5	288-1091-ND	.88	3.85	6.60	121010100
	18	12	1.4	2.5	288-1092-ND*	1.00	4.38	7.50	121210100
1.50	16	7	1.7	2.8	288-1093-ND	.92	4.03	6.90	12710150
	16	8	1.7	2.8	288-1094-ND	.92	4.03	6.90	12810150
	16	10	1.7	2.8	288-1095-ND	.96	4.20	7.20	121010150
	16	12	1.7	2.8	288-1096-ND	1.08	4.73	8.10	121210150
	16	15	1.7	2.8	288-1097-ND*	1.08	4.73	8.10	121510150
2.50	14	7	2.2	3.4	288-1099-ND	1.16	5.08	8.70	12710250
	14	8	2.2	3.4	288-1100-ND	1.16	5.08	8.70	12810250
	14	10	2.2	3.4	288-1101-ND	1.16	5.08	8.70	121010250
	14	12	2.2	3.4	288-1102-ND	1.16	5.08	8.70	121210250
4.00	12	9	2.8	4.0	288-1105-ND	1.12	4.90	8.40	12910400
	12	10	2.8	4.0	288-1106-ND	1.12	4.90	8.40	121010400
	12	12	2.8	4.0	288-1107-ND	1.00	4.38	7.50	121210400
6	10	10	3.5	4.7	288-1110-ND	2.24	9.80	16.80	121010600
	10	12	3.5	4.7	288-1111-ND	2.24	9.80	16.80	121210600
10.00	8	12	4.5	5.8	288-1114-ND	2.00	8.75	15.00	1212110
25.00	4	12	7.3	9.5	288-1121-ND*	10.40	45.50	78.00	1212125

* Does not conform to DIN 46228 Part 1

NEW! Slide Boxes

288-1393-ND	**Twin Wire Ferrules — 225 pieces DIN Type** (50 pieces each of 22AWG, 20AWG, 18AWG, and 16AWG; 25 pieces each of 14AWG)	**$48.75**
288-1394-ND	**Insulated Wire Ferrules — 100 pieces DIN Type** (50 pieces each of 12AWG; 20 pieces each of 10AWG and 8AWG; 10 pieces each of 6AWG)	**$39.00**
288-1395-ND	**Insulated Wire Ferrules — 400 pieces DIN Type** (100 pieces each of 20AWG, 18AWG, 16AWG; 50 pieces each of 22AWG and 14AWG)	**$38.00**

Crimp Tools

288-1163-ND	Prototype Tool For 10-22 AWG Ferrules (AE Part # TRAP 22-10)	**$34.99**
288-1158-ND	For 10-24 AWG Ferrules (AE Part # TRAP 24-10)	**$140.00**
288-1159-ND	For 4-8 AWG Ferrules (AE Part # TRAP 8-4)	**$150.77**
288-1161-ND	For 10-28 AWG Ferrules (AE Part # SQ 28-10)	**$168.00**
288-1162-ND	For 8-12 AWG Ferrules (AE Part # TRAP 12-8 TW)	**$200.58**
288-1234-ND	Pneumatic Hand Tool For 14-24 AWG (AE Part # PC 24-14H)	**$509.25**
288-1235-ND	Pneumatic Bench Tool For 14-24 AWG (AE Part # PC 24-14B)	**$673.75**
288-1237-ND	Pneumatic Bench Tool For 8-12 AWG (AE Part # PC 12-8B)	**$761.25**

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

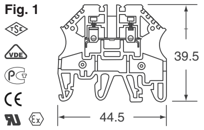

Fig. 2

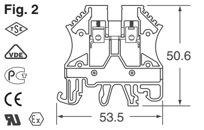

Fig. 3

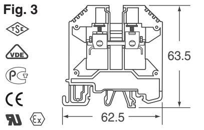

Fig. 4

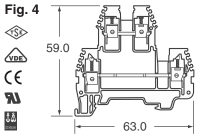

Fig. 5

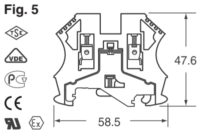

Fig. 6

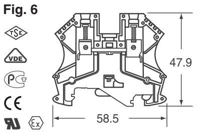

Fig. 7

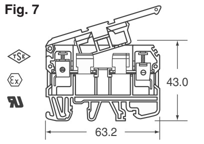

Fig. 8

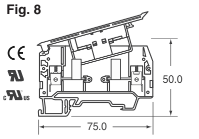

Fig. 9

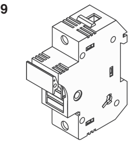

PEK Series: Manufactured from a thermoplastic material and mountable to TS35 and TS32 DIN Rails. • Terminal Blocks Color: beige **PIK Series**: Double decker version of the PEK. **WGT Series**: Can be used on both TS35 and TS32 DIN Rails. Yellow/Green color combination meets international standards for ground labeling. Internal metal parts electrically connect the field wiring to the DIN Rail. DIN Rails mounted to metallic cabinetry and connected to earth, complete the proper grounding process. **ASK 2 Series**: • Maximum Current: 6.3A **ASK 4 Series**: • Maximum Current: 6.3A **ASK 6 Series**: Applications requiring circuit protection are often specified with fuses instead of circuit breakers. These fuse holders are capable of protecting circuits utilizing popular size fuses. • Maximum Current: 50A • No. of Poles: 3

Fig.	Series	Terminal Width (mm)	UL Amps	Wire Gauge (AWG)	Maximum Voltage (UL)	Digi-Key Part No.	Price Each 1	Price Each 10	American Electrical Part No.
				Din Rail Mounted Feed-Through Terminals					
1	PEK 2.5 K	5	18	26-12	600V	288-1239-ND	.75	.68	305110
2	PEK 2.5	6.0	26	26-12	600V	288-1240-ND	.75	.68	305120
	PEK 4	6.5	34	26-10	600V	288-1241-ND	.88	.79	305130
	PEK 6	8	44	26-8	600V	288-1242-ND	1.05	.95	305140
	PEK 10	10	50	16-8	600V	288-1243-ND	1.35	1.22	305150
3	PEK 35	16	115	10-2	600V	288-1245-ND	5.40	4.86	305170
				Double Deck					
4	PIK 4 N	6	32	26-10	300V	288-1246-ND	1.48	1.33	319100
				Din Rail Mounted Grounding Terminals					
5	WGT 2.5	5	—	26-12	600	288-1248-ND	2.49	2.24	331120
	WGT 6	8	—	26-8	600	288-1250-ND	2.88	2.59	331140
6	WGT 4	6	—	26-12	600	288-1249-ND	2.68	2.42	331130
	WGT 10	10	—	16-6	600	288-1251-ND	3.14	2.83	331150
				Din Rail Mounted Fuse Terminals					
				Accepts 5mm x 20mm and 5mm x 25mm Fuse					
7	ASK 2 S	8	6.3	26-8	300V	288-1252-ND	2.74	2.47	351100
	ASK 2 LD	8	6.3	26-8	110VAC	288-1254-ND‡	3.95	3.56	351510
				Accepts 1 1/4" x 1/4" Fuse					
8	ASK 4 S	8	10	22-8	600V	288-1255-ND	6.12	5.51	351120
	ASK 4 LD	8	10	22-8	24VDC	288-1256-ND‡	8.75	7.88	351720
	ASK 4 LD	8	10	22-8	110VAC	288-1257-ND‡	8.75	7.88	351750
				Din Rail Mounted Fuse Holders					
				Accepts 2.0" x 0.55" Fuse					
9	ASK 6	27	50	26-6	600V	288-1311-ND	28.00	25.20	2564000

‡ With LED Fuse Blown Indicator

Accessories

Series	No. of Positions	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	American Electrical Part No.
		End Plates				
NPP 2.5 K	—	288-1258-ND	.22	.20	.18	445110
NPP 2.5-10	—	288-1259-ND	.35	.32	.28	445150
PIK 4 N	—	288-1261-ND	.96	.87	.77	449010
ASK	—	288-1262-ND	1.00	.90	.80	450040
		End Bracket				
ASK	—	288-1295-ND	.44	.40	.36	495040
		Cross Connection Jumpers				
UK 2.5K/2	2	288-1263-ND	1.24	1.12	.99	475112
UK 2.5K/10	10	288-1266-ND	5.68	5.12	4.55	475119
UK 2.5/2	2	288-1267-ND	1.12	1.01	.90	475122
UK 2.5/4	4	288-1269-ND	2.43	2.19	1.95	475124
UK 2.5/10	10	288-1270-ND	5.33	4.80	4.27	475129
UK 4/2	2	288-1271-ND	1.97	1.77	1.58	475132
UK 4/3	3	288-1272-ND	2.85	2.57	2.28	475133
UK 6/2	2	288-1275-ND	2.06	1.86	1.65	475142
UK 6/3	3	288-1276-ND	2.89	2.60	2.31	475143
UK 10/2	2	288-1279-ND	2.16	1.95	1.73	475152
UK 10/3	3	288-1280-ND	3.03	2.73	2.42	475153
UK 10/4	4	288-1281-ND	3.95	3.56	3.16	475154
UK 16/2	2	288-1283-ND	2.16	1.95	1.73	475162
UK 16/3	3	288-1284-ND	3.03	2.73	2.42	475163
UK 16/4	4	288-1285-ND	4.17	3.75	3.34	475164
UK 35/2	2	288-1287-ND	2.13	1.92	1.71	475172
UK 35/3	3	288-1288-ND	3.03	2.73	2.42	475173
UK 35/4	4	288-1289-ND	4.33	3.90	3.47	475174
UK 35/10	10	288-1290-ND	9.52	8.57	7.62	475179
UK 4/2	2	288-1291-ND	1.72	1.56	1.38	474132
UK 4/3	3	288-1292-ND	2.31	2.09	1.86	474133
		Marking Tags				
DY 5	1-10	288-1296-ND	1.60	1.44	1.28	505020
DY 5	1-50	288-1297-ND	1.60	1.44	1.12	505040

DIN Rail Mounted Interface Modules and Cables

D-Sub Specifications: • Max. Current: 1A • Wire Range: 22-14AWG • Operating Temperature: -10°C ~ 50°C
IDC Specifications: • Max. Current: 2A • Wire Range: 22-14AWG • Operating Temperature: -10°C ~ 50°C

Fig. 1

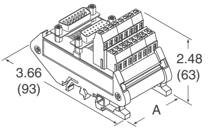

Fig. 2

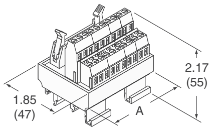

Fig.	Description	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	American Electrical Part No.
	Interface Modules					
1	9 Pin D-Sub Male and Female to Screw Block	1.53 (39)	288-1347-ND	53.08	46.45	DSUB-9-MF
	15 Pin Male and Female to Screw Block	1.93 (49)	288-1343-ND	74.57	65.25	DSUB-15-MF
	25 Pin D-Sub Male and Female to Screw Block	2.87 (73)	288-1345-ND	94.24	82.46	DSUB-25-MF
2	20 Pin Male IDC Header to Screw Block	2.26 (57.5)	288-1350-ND	48.43	42.38	IDC-20-M
	24 Pin Male IDC Header to Screw Block	2.72 (69)	288-1352-ND	64.58	56.52	IDC-24-M
	40 Pin Male IDC Header to Screw Block	4.47 (113.5)	288-1353-ND	93.66	81.96	IDC-40-M
	Cables for Modules					
—	9 Pin D-Sub Cable Male to Female 2M	—	288-1348-ND	23.86	20.88	DSUB-9-MF-CBL
	15 Pin D-Sub Cable Male to Female 2M	—	288-1344-ND	23.04	20.16	DSUB-15-MF-CBL
	25 Pin D-Sub Cable Male to Female 2M	—	288-1346-ND	24.88	21.77	DSUB-25-MF-CBL
	20 Pin Male IDC Single End 2M	—	288-1349-ND	52.84	46.24	IDC-20-M-CBL
	24 Pin Male IDC Single End 2M	—	288-1351-ND	70.74	61.90	IDC-24-M-CBL

DIN Rail

Features: • Steel Design • CE Approved • Zinc Plated • No Markings on Rail

Sold in 1" increments from 3" to 78".
Call for custom lengths and pricing!

Note: Lengths exceeding 48" may incur additional shipping charges.

PART NUMBERING SYSTEM

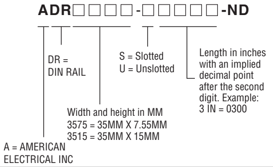
ADR□□□□-□□□□□-ND
DR = DIN RAIL
S = Slotted
U = Unslotted
Length in inches with an implied decimal point after the second digit. Example: 3 IN = 0300
Width and height in MM
3575 = 35MM X 7.55MM
3515 = 35MM X 15MM
A = AMERICAN ELECTRICAL INC

Unslotted 7.55mm x 35mm

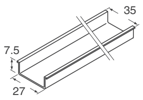

Slotted 7.55mm x 35mm

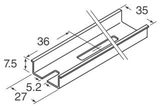

Unslotted 15mm x 35mm

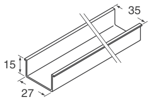

Slotted 15mm x 35mm

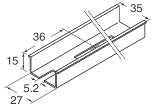

Length (In.)	Digi-Key Part No.	"U" Price Each 1	"U" Price Each 10	"U" Price Each 100	"S" Price Each 1	"S" Price Each 10	"S" Price Each 100
3	ADR3575-□0300-ND	1.44	1.08	.75	1.44	1.08	.75
4	ADR3575-□0400-ND	1.61	1.22	.88	1.61	1.22	.88
5	ADR3575-□0500-ND	1.63	1.26	.94	1.63	1.26	.94
6	ADR3575-□0600-ND	1.88	1.45	1.09	1.88	1.45	1.09
7	ADR3575-□0700-ND	2.15	1.66	1.25	2.15	1.66	1.25
8	ADR3575-□0800-ND	2.40	1.87	1.40	2.40	1.87	1.40
9	ADR3575-□0900-ND	2.65	2.07	1.55	2.65	2.07	1.55
10	ADR3575-□1000-ND	2.89	2.25	1.69	2.89	2.25	1.69
11	ADR3575-□1100-ND	3.11	2.44	1.83	3.11	2.44	1.83
12	ADR3575-□1200-ND	3.32	2.61	1.96	3.32	2.61	1.96
24	ADR3575-□2400-ND	5.02	4.02	3.02	5.02	4.02	3.02
36	ADR3575-□3600-ND	6.57	5.26	3.98	6.57	5.26	3.98
48	ADR3575-□4800-ND	7.97	6.38	4.88	7.97	6.38	4.88
—	ADR3575-□7874-ND†	11.12	8.75	6.84	11.12	8.75	6.84
3	ADR3515-□0300-ND	1.51	1.14	.80	1.51	1.14	.80
4	ADR3515-□0400-ND	1.64	1.25	.91	1.64	1.25	.91
5	ADR3515-□0500-ND	1.74	1.34	1.01	1.74	1.34	1.01
6	ADR3515-□0600-ND	2.05	1.58	1.19	2.05	1.58	1.19
7	ADR3515-□0700-ND	2.34	1.81	1.36	2.34	1.81	1.36
8	ADR3515-□0800-ND	2.61	2.03	1.53	2.61	2.03	1.53
9	ADR3515-□0900-ND	2.87	2.24	1.68	2.87	2.24	1.68
10	ADR3515-□1000-ND	3.12	2.44	1.83	3.12	2.44	1.83
11	ADR3515-□1100-ND	3.35	2.63	1.98	3.35	2.63	1.98
12	ADR3515-□1200-ND	3.57	2.81	2.11	3.57	2.81	2.11
24	ADR3515-□2400-ND	5.20	4.16	3.12	5.20	4.16	3.12
36	ADR3515-□3600-ND	7.05	5.65	4.28	7.05	5.65	4.28
48	ADR3515-□4800-ND	8.43	6.75	5.19	8.43	6.75	5.19
—	ADR3515-□7874-ND†	11.78	9.21	7.25	11.78	9.21	7.25

Note: □ S = Slotted, U = Unslotted † 2 meter length

NEW! Junction / Hook-up Boxes

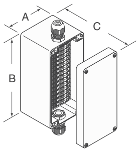

Features: • Save Time • Easy, top entry, screwless wiring • Captive half turn, spring loaded, cover screws for fast and easy access • IP65 rated, Polycarbonate (-40°C ~ 80°C) indoor/outdoor enclosure with gasket
Includes: Two sets of M20 cable grips (IP68) and locknuts to seal enclosure (8mm-14mm cable diameter)
Optional: Non-Insulated Screwdriver (used to open terminal spring clamps)

No. of Terminals	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Dimensions - Inch (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	American Electrical Part No.
5	3.150 (80)	3.228 (82)	3.346 (85)	288-1378-ND	52.50	45.00	40.50	JB-FT5
10	3.150 (80)	4.724 (120)	3.346 (85)	288-1379-ND	61.25	52.50	47.25	JB-FT10
15	3.150 (80)	6.299 (160)	3.346 (85)	288-1380-ND	66.50	57.00	51.30	JB-FT15
20	3.150 (80)	6.299 (160)	3.346 (85)	288-1381-ND	71.75	61.50	55.35	JB-FT20
Two, Gray cable grips with locknuts				288-1382-ND	3.15	2.70	2.43	M20KIT
Non-Insulated Screwdriver				288-1383-ND	12.25	10.50	9.45	W900834

Weidmüller

DIN Rail - Mounted Terminal Blocks and Accessories

Fig. 1

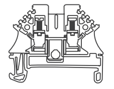

Fig. 2

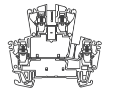

Fig. 3

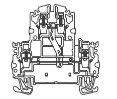

Fig. 4

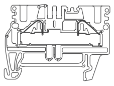

Push In technology reduces installation time to the absolute minimum. Stripped solid conductors or conductors with wire end ferrules are simply inserted into the clamping point. High performance coupled with a compact design. The P-Series is the ideal way to reduce the number of different terminals you need.

Fig.	Series	Wire Size (AWG)	Termination Block width (mm)	UL V/A	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
1	WDU 2.5N	24~12	5	300V/25A	281-1466-ND◆	1.87	1.69	1.50	1040800000
	WDU 2.5	22~12	5	600V/25A	281-1467-ND◆	1.42	1.28	1.10	1020000000
	WDU 4	22~10	6	600V/35A	281-1468-ND◆	1.54	1.39	1.24	1020100000
	WDU 6	20~8	8	600V/45A	281-1469-ND◆	2.41	2.17	1.93	1020200000
	WDU 10	16~6	10	1,000V/65A	281-1470-ND◆	3.20	2.89	2.57	1020300000
	WDU 16	14~6	12	600V70A	281-1471-ND	5.87	5.26	4.53	1020400000
	WDU 1.5/R 3.5	26~14	3.5	300V/15A	281-1476-ND	2.03	1.83	1.63	1753280000
2	WDK 2.5N	22~12	5	600V/20A	281-1472-ND	4.87	4.36	3.76	1041100000
	WDK 1.5/R 3.5	26~14	3.5	300V15A	281-1477-ND◆	4.42	3.98	3.54	1753290000
	WDK 4N	22~10	6	600V/35A	281-1473-ND	6.87	6.19	5.50	1041900000
	PDK 2.5/4	26~10	5.1	600V/30A	281-2578-ND◆	3.88	3.50	3.11	1918770000
3	WDK 4NV	22~10	6	600V/35A	281-1474-ND	8.91	8.14	6.20	1041910000
	WDK 2.5 NV	26~12	5	600V/20A	281-1475-ND◆	9.51	8.69	6.62	1041610000
4	PDU 6/10	14~8	8.1	600V/44A	281-2570-ND◆	2.76	2.49	2.21	1896140000
	PDU 16	14~4	12	600V/75A	281-2572-ND◆	3.88	3.50	3.11	1896400000
	PTR 2.5/4 O TNHE	28~10	5.1	300V/10A	281-2574-ND◆	5.35	4.82	4.28	1933910000

◆ ***RoHS Compliant***

Accessories

Dimensions in mm

Grounding Blocks - Grounds connected wires to DIN rail

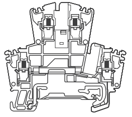

End Plates - Covers open end of terminal block

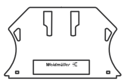

End Brackets - Clamps blocks into place on Rail

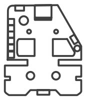

Partition - WTW

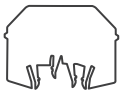

Jumpers - For cross connection ZQV

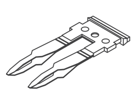

Jumper Links - For cross connection WQV

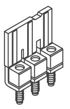

DIN Rail-with mounting holes

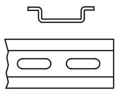

Marker Strips-Will mark termination points

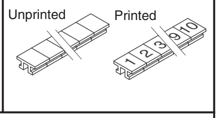

Fuse Block TS 35 DIN Rail with LED indicator

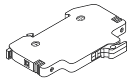

Outlet Modules-TS 35 DIN Rail

Single

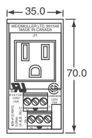

Dual ***NEW!***

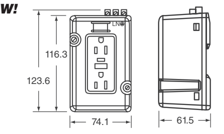

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Grounding Blocks					
WPE 2.5N	281-1490-ND	6.52	5.85	5.03	1016200000
WPE 2.5	281-1491-ND◆	7.52	6.74	5.80	1010000000
WPE 4	281-1492-ND◆	8.08	7.27	6.47	1010100000
WPE 6	281-1493-ND◆	8.37	7.54	6.70	1010200000
WPE 10	281-1494-ND◆	9.36	8.43	7.49	1010300000
PPE 2.5/4	281-2575-ND◆	5.17	4.66	4.14	1896170000
PPE 6/10	281-2576-ND◆	6.29	5.66	5.04	1896180000
PPE 16	281-2577-ND◆	9.25	8.45	6.44	1896210000
End Plates — RoHS Compliant					
WAP WDU 1.5/R 3.5	281-1478-ND	.42	.38	.34	1754190000
WAP WDK 1.5/R 3.5	281-1479-ND	1.12	1.01	.90	1754200000
WAP WDU 1.5	281-1499-ND	1.04	.94	.84	1060000000
WAP WDU 2.5	281-1500-ND	1.09	.98	.88	1050000000
PAP 2.5/4	281-2569-ND	.78	.71	.63	1896300000
PAP 6/10	281-2571-ND	.85	.77	.68	1896330000
PAP 16	281-2573-ND	1.35	1.22	1.08	1896290000
End Brackets					
EW 15	281-1480-ND◆	.88	.79	.71	3828600000
WEW 35/1	281-1502-ND	5.43	4.89	4.35	1061200000
WEW 35/2	281-1503-ND◆	2.50	2.26	2.01	1059000000
Partition — RoHS Compliant					
WTW	281-1501-ND	6.03	5.43	4.83	1058800000
Jumpers					
ZQV 1.5/R 3.5/2 GE	281-1481-ND◆	.67	.60	.54	1754210000
ZQV 1.5/R 3.5/3 GE	281-1482-ND	1.32	1.19	1.06	1754220000
ZQV 2.5N/2	281-1505-ND◆	.69	.62	.53	1693800000
ZQV 2.5N/3	281-1506-ND	1.29	1.16	1.00	1693810000
ZQV 4N/2	281-1514-ND	1.41	1.28	1.14	1758250000
ZQV 4N/10	281-1517-ND	6.83	6.15	5.46	1758260000
Jumper Links					
WQV 6/2	281-1518-ND◆	2.00	1.80	1.60	1052360000
WQV 6/10	281-1521-ND◆	8.81	8.04	6.13	1052260000
WQV 10/2	281-1522-ND◆	2.24	2.02	1.80	1052560000
WQV 10/3	281-1523-ND	3.15	2.84	2.53	1054960000
WQV 10/10	281-1525-ND	8.98	8.21	6.26	1052460000
WQV 16/10	281-1529-ND◆	9.40	8.59	6.55	1053360000
Notching Tool (For All Series)					
Cutting Tool WAW 1	281-1533-ND	60.56	—	—	900450
Screwdrivers — RoHS Compliant					
0.6 x 3.5 Flat	281-1530-ND	7.75	—	—	9008330000
0.8 x 4.0 Flat	281-1531-ND	10.50	—	—	9008340000
1.0 x 5.5 Flat	281-1532-ND	14.28	—	—	9008350000
DIN Rail - Slotted 1M					
TS 35 x 7.5mm	281-1534-ND	13.23	12.25	10.26	0514510000
TS 15 x 5.5mm	281-1535-ND◆	11.34	10.49	8.79	0117510000
Marking Pen					
STI - Black	281-1554-ND	10.27	9.25	8.22	508401694
Outlet Modules					
AC, Single	281-1560-ND	18.29	16.73	13.07	9915480000
AC, Dual	281-2579-ND◆ ***NEW!***	28.44	26.00	20.32	6720005420
AC, Dual	281-2580-ND◆ ***NEW!***	22.75	20.80	16.25	6720005421
AC, Dual, GFCI	281-2581-ND◆ ***NEW!***	45.50	41.60	32.50	6720005422
AC, Dual, GFCI	281-2582-ND◆ ***NEW!***	51.19	46.80	36.57	6720005423
Fuse Block — RoHS Compliant					
With Indicator	281-2567-ND	19.79	18.10	15.27	1966060000

◆ ***RoHS Compliant***

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Marker Strips					
DEK 5/3.5 MC Blank (unprinted)	281-1536-ND◆	10.47	9.56	7.28	1755270000
DEK 5/3.5 FS 1-10 Premarked (printed)	281-1537-ND	11.96	10.92	8.32	1762320001
DEK 5/5 Blank (unprinted)	281-1550-ND◆	3.25	2.93	2.60	0473360000
DEK 5/6 Blank (unprinted)	281-1551-ND◆	3.25	2.93	2.60	0468560000
DEK 5/8 Blank (unprinted)	281-1553-ND◆	4.06	3.66	3.25	1277060000

◆ ***RoHS Compliant***

NEW! Omnimate CH20M Series

CH20M (Component Housing IP20 Modular) The new standard for integrating innovative electronics on the mounting rail. Trend-setting flexibility and design freedom. Flexibility, efficiency, functionality and security. Weidmüller's new housing standard fits perfectly with customized electronics applications. This "standard tailor-made fit" combines the design freedom made possible by a pioneering concept of modularity with the minimized overhead and optimized planning security of a standard system.

Fig. 1

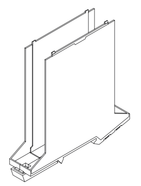

Fig. 2

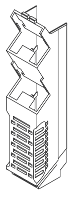

Fig. 3

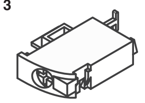

Fig.4

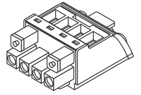

Fig. 5

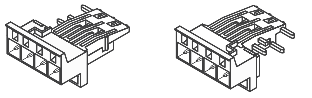

Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Base Element						
1	6mm	281-2773-ND	5.33	4.80	4.27	2418600000
	12.5mm	281-2778-ND	6.48	5.84	5.19	1104180000
	22.5mm	281-2788-ND	6.23	5.61	4.98	1104450000
	45mm	281-2797-ND	10.47	9.43	8.38	1104410000
Side Element						
2	12.5mm	281-2779-ND	3.81	3.43	3.05	1104210000
	12.5mm	281-2780-ND	3.81	3.43	3.05	1104200000
	12.5mm	281-2781-ND	4.13	3.72	3.31	1174280000
	22.5mm	281-2789-ND	3.56	3.20	2.85	1080630000
	22.5mm	281-2790-ND	3.56	3.20	2.85	2418650000
	22.5mm	281-2791-ND	3.56	3.20	2.85	1139790000
	45mm	281-2798-ND	6.03	5.43	4.83	1111720000
Front Element						
—	12.5mm	281-2782-ND	2.67	2.41	2.14	1104190000
	22.5mm	281-2792-ND	2.49	2.25	2.00	2418640000
	45mm	281-2799-ND	4.26	3.84	3.41	1104420000
PCB Terminal						
3	6mm	281-2776-ND	2.62	2.36	2.10	1137870000
	6mm	281-2777-ND	2.62	2.36	2.10	1137880000
Socket						
4	12.5mm	281-2786-ND	3.02	2.72	2.42	1063260000
	22.5mm, 45mm	281-2796-ND	6.05	5.45	4.84	1063280000
Header						
5	12.5mm	281-2784-ND	1.52	1.37	1.22	1069620000
	12.5mm	281-2785-ND	1.52	1.37	1.22	1069550000
	22.5mm, 45mm	281-2794-ND	3.02	2.72	2.42	1069640000
	22.5mm, 45mm	281-2795-ND	3.02	2.72	2.42	1069570000
Hinged Cover						
—	6mm	281-2775-ND	1.07	.97	.86	1073410000
	12.5mm	281-2783-ND	2.93	2.64	2.34	1104250000
	22.5mm	281-2793-ND	2.67	2.41	2.14	1073420000
	45mm	281-2800-ND	4.70	4.23	3.76	1104440000
Housing Cover						
—	6mm	281-2774-ND	5.93	5.34	4.75	2418610000

Kit

Includes a fully assembled housing. **Components Included:** • Plugs (1069350000, 1069380000) • Headers (1069640000, 1069570000) • Sides (1080630000, 1070620000) • Base (1104450000) • Front (2418640000) • Cover (2418670000) • Circuit Board (1105580000)

281-2787-ND (1105610000) CH20M 22.5mm Sample Kit....................................**$140.65**

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

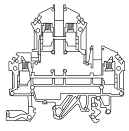

Color: Beige

Fig. 2

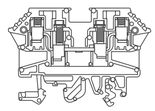

Color: Beige

Fig. 3

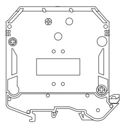

Color: Beige or Green/Yellow

Fig. 4

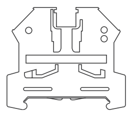

Color: Green/Yellow

Fig. 5

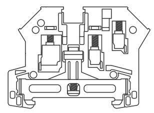

Color: Green/Yellow

Fig. 6

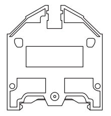

Color: Green/Yellow

Fig. 7

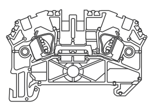

Color: Beige or Green/Yellow

Fig. 8

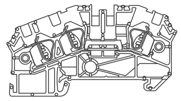

Color: Beige or Green/Yellow

Fig. 9

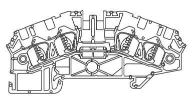

Color: Beige or Green/Yellow

Fig. 10

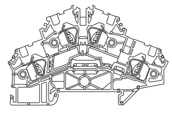

Color: Beige or Green/Yellow

TERMINAL BLOCKS							SPECIFICATIONS				ACCESSORIES								
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dimensions L x W x H (mm)	Wire Size (AWG)	UL Rated Voltage (V)	UL Rated Current (A)	End Plate	Isolation Partition	Separator	End Bracket	Test Socket	Test Plug	Cross Connection	Marker Strip (Blank)	Marker Strip (1-10)
Screw Terminal																			
1	SRD 4	ED2527-ND	2.69	2.42	2.15	41020.2	59 x 6 x 60	22-12	300	30	2101.2	—	2566.2	2826.2	2075.0	2007.0	2087.0/2090.0	2430.0	2431.0
2	SR 4 DRL	ED2544-ND	2.89	2.60	2.31	41211.2	67 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
3	SR 150	ED2538-ND	27.64	24.88	22.11	41124.2	93 x 31 x 109	2-300MCM	600	275	—	—	—	2761.0	—	—	—	—	—
	SR 240	ED2539-ND	33.18	29.87	26.55	41126.2	93 x 36 x 123	2/0-500	600	370	—	—	—	2761.0	—	—	—	—	—
	SR 50	ED2536-ND	11.15	10.04	8.92	41120.2	79 x 20 x 76	6-1/0	600	150	—	—	—	2761.0	—	—	—	—	—
	SR 95	ED2537-ND	22.12	19.91	17.70	41122.2	84 x 25 x 88	2-4/0	600	230	—	—	—	2761.0	—	—	—	—	—
Tension Spring																			
7	ZR 4	ED2553-ND*	1.29	1.16	1.03	43515.2	64 x 6 x 42	20-10	600	35	3703.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
8	ZR 4 DR	ED2554-ND*	1.77	1.59	1.42	43516.2	78.5 x 6 x 42	20-10	600	35	3704.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
9	ZR 4 DRL	ED2555-ND*	2.21	2.00	1.77	43517.2	93 x 6 x 42	20-10	600	35	3705.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
10	ZRD 2.5	ED2559-ND	2.52	2.27	2.02	43562.2	84 x 5 x 53	20-12	300	10	3756.2	—	—	3748.2	—	—	3710.8/3718.8	2430.0	2431.0

GROUNDING BLOCKS										
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dim. (mm) L x W x H	Wire Size (AWG)	Isolation Partition	Marker Strip (Blank)	Marker Strip (1-10)
3	SRSL 4-T15	ED2534-ND†	3.14	2.83	2.51	41064.2	32 x 7 x 32	22-10	—	—	—
4	SRSL 2.5-T35	ED2530-ND	3.28	2.95	2.62	41056.2	52 x 6 x 47	22-14	—	2035.0	2036.0
	SRSL 4-T35	ED2545-ND	3.50	3.15	2.80	41212.2	56 x 8 x 47	22-10	—	—	—
5	SRSL 2.5-T35 DR	ED2532-ND	4.43	3.99	3.54	41060.2	62.5 x 6 x 47	22-14	—	2430.0	2431.0
6	SRSL 16-T35	ED2540-ND	6.78	6.10	5.42	41197.2	56 x 12 x 58	12-6	—	—	—
	SRSL 35-T35	ED2541-ND	9.10	8.19	7.28	41199.2	58 x 16 x 71	12-2	—	—	—
7	ZRSL 4	ED2556-ND†	3.84	3.46	3.07	43525.2	64 x 6 x 42	20-10	2957.2	2035.0	2036.0
8	ZRSL 4 DR	ED2557-ND†	4.62	4.16	3.70	43526.2	78.5 x 6 x 42	20-10	2957.2	2430.0	2431.0
9	ZRSL 2.5 DRL	ED2552-ND◆†	5.27	4.74	4.22	43512.2	83.6 x 5 x 39	20-12	2957.2	2430.0	2431.0
	ZRSL 4 DRL	ED2558-ND†	6.19	5.57	4.95	43527.2	93 x 6 x 42	20-10	2957.2	2035.0	2036.0
10	ZRSLD 2.5	ED2560-ND†	4.57	4.11	3.66	43567.2	84 x 5 x 53	20-12	—	2430.0	2431.0

◆ ***RoHS Compliant*** * UL approvals pending † Color: Green/Yellow

Accessories

END PLATES:

In general end plates are used at the end of each terminal row. If different terminals of different sizes are used on 1 terminal row, end plates are also used between these different sized terminals. The overall dimension of end plates conform to the dimension of the terminal to match.

TEST-SOCKETS:

Sockets type STB are inserted in the busbar or screwed in the modular terminal in place of the terminal screw. They serve to take up the test sockets type PS.

CROSS-CONNECTION SYSTEMS:

Q - Cross connection; QI - For cross connections the cross connection bar, connection sleeve and fixing screw are already captively mounted with the corresponding number of poles.

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
End Plates						
AP-SR	—	ED2490-ND	.51	.46	.41	2070.2
ZAP 2.5/3A	—	ED2514-ND	.73	.66	.59	3701.2
ZAP 2.5/4A	—	ED2515-ND	.76	.68	.61	3702.2
ZAP 4/2A	—	ED2516-ND	.73	.66	.59	3703.2
ZAP 4/3A	—	ED2517-ND	.79	.71	.63	3704.2
ZAPD 2.5	—	ED2524-ND	1.18	1.06	.94	3756.2
End Brackets — RoHS Compliant						
ES 35/2/K	8mm	ED2509-ND	.93	.84	.74	2826.2
Test Sockets						
STB 14/2.3	—	ED2482-ND	.34	.31	.27	2006.0
STB 8.5/2.3	—	ED2491-ND	.34	.31	.27	2075.0

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
Cross Connection Jumpers for Screw Terminal Blocks						
Q 2	—	ED2492-ND	1.01	.91	.81	2087.0
Q 2	—	ED2498-ND	1.01	.91	.81	2422.0
Q 2	—	ED2503-ND	1.01	.91	.81	2567.0
Q 2	—	ED2510-ND	1.01	.91	.81	2832.0
Q 10	—	ED2485-ND	4.34	3.91	3.48	2022.0
Q 10	—	ED2504-ND	4.34	3.91	3.48	2570.0
Q 10	—	ED2511-ND	4.34	3.91	3.48	2835.0
Cross Connection Jumpers for Tension Spring Terminal Blocks						
ZQI 4/10	—	ED2522-ND	5.71	5.15	4.57	3728.8
ZQI 4/2	—	ED2521-ND	.65	.59	.52	3720.8
Marker Strips						
SB 6/10 FW 1-10	Printed Strip/10 6mm	ED2487-ND	.55	.50	.44	2036.0(1-10)

PHOENIX CONTACT
INSPIRING INNOVATIONS

NEW! Push-In Terminal Blocks

Reduce fatigue, save time and simplify wiring with Phoenix Contact's push-in terminal blocks. These tool-less terminal blocks use a direct push-in connection and require 50 percent lower insertion force when connecting solid conductors or conductors with ferrules.

Fig. 1

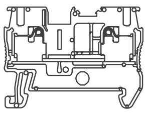

Fig. 2

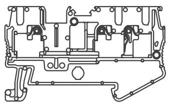

Fig. 3

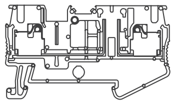

Fig. 4

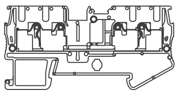

Fig. 5

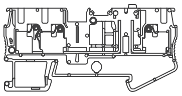

Fig. 6

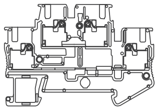

Fig.	Series	UL V/A	Dimensions L x W x H (mm)	DIN Width (mm)	Digi-Key Part No.	Price Each 1	10	50	Phoenix Contact Part No.
1	PIT 2.5	600/20	48.5 x 5.2 x 36.5	35	277-2094-ND	1.45	1.42	1.32	3209510
	PIT 2.5-DIO/L-R	—	48.5 x 5.2 x 36.5	35	277-2102-ND	6.05	5.89	5.50	3210224
	PIT 2.5-DIO/R-L	—	48.5 x 5.2 x 36.5	35	277-2103-ND	6.05	5.89	5.50	3210237
2	PIT 2.5-TWIN	600/20	60.5 x 5.2 x 36.5	35	277-2098-ND	1.64	1.60	1.49	3209549
3	PIT 2.5-MT	—	62 x 5.2 x 36.5	35	277-2104-ND	4.47	4.35	4.06	3210156
	PIT 2.5-TG	—	62 x 5.2 x 36.5	35	277-2105-ND	2.85	2.78	2.59	3210185
4	PIT 2.5-QUATTRO	600/20	72 x 5.2 x 36.5	35	277-2096-ND	2.35	2.29	2.14	3209578
5	PIT 2.5-TWIN-MT	—	74 x 5.2 x 36.5	35	277-2106-ND	5.01	4.87	4.55	3210169
	PIT 2.5-TWIN-TG	—	74 x 5.2 x 36.5	35	277-2110-ND	3.39	3.30	3.08	3210198
6	PITTB 2.5	—	68 x 5.2 x 47.5	35	277-2107-ND	3.34	3.26	3.04	3210567
	PITTB 2.5-PV	—	68 x 5.2 x 47.5	35	277-2109-ND	7.13	6.94	6.48	3210583

Description, Width	Digi-Key Part No.	Price Each 1	10	50	Phoenix Contact Part No.
Grounding Blocks					
PIT 2.5-PE, 5.2mm	277-2095-ND	4.86	4.73	4.42	3209536
PIT 2.5-QUATTRO-PE, 5.2mm	277-2097-ND	7.41	7.22	6.74	3209594
PIT 2.5-TWIN-PE, 5.2mm	277-2099-ND	5.74	5.59	5.22	3209565
PITTB 2.5-PE, 5.2mm	277-2108-ND	10.18	9.90	9.25	3210596
End Covers					
D-PIT 2.5-TWIN-MT, 2.2mm	277-2100-ND	2.43	2.37	2.21	3211317
D-PIT 2.5-MT, 2.2mm	277-2101-ND	.19	.18	.17	3211003
D-ST 2.5, 2.2mm	277-2113-ND	.74	.72	.67	3030417
D-ST 2.5-TWIN, 2.2mm	277-2124-ND	.74	.72	.67	3030488
D-STTB 2.5, 2.2mm	277-2125-ND	.78	.76	.71	3030459
D-ST 2.5-QUATTRO, 2.2mm	277-2128-ND	.76	.74	.69	3030514
Partition Plates					
ATP-ST 4, 2.0mm	277-2111-ND	.69	.68	.63	3030721
ATP-ST QUATTRO, 2.0mm	277-2119-ND	.99	.97	.90	3030815
ATP-STTB 4, 2.0mm	277-2121-ND	1.08	1.05	.98	3030747
ATP-ST-TWIN, 2.0mm	277-2127-ND	.93	.91	.85	3030789

Description, Width	Digi-Key Part No.	Price Each 1	10	50	Phoenix Contact Part No.
End Bracket					
CLIPFIX 35-5, 5.15mm	277-2112-ND	.94	.91	.85	3022276
Cover Segment					
DS-ST 2.5	277-2120-ND	.35	.33	.31	3036602
Spacer Plate					
DP PS-5, 5.2mm	277-2114-ND	1.33	1.30	1.21	3036725
Cross Connectors					
FBS 2-5, 2 Positions	277-2115-ND	.53	.52	.48	3030161
FBS 10-5, 10 Positions	277-2116-ND	4.33	4.22	3.94	3030213
Vertical Bridge					
FBS-PV	277-2122-ND	.94	.91	.85	3032185
Test Adapters					
PAI-4, Gray	277-2117-ND	9.47	9.22	8.61	3030925
PS-5, 5.2mm, Red	277-2118-ND	7.40	7.21	6.73	3030983
Screwdriver					
SZF 1-0.6X3.5	277-2126-ND	10.21	9.40	8.68	1204517
Din Rail					
NS 35/ Height 7.5mm, Length 955mm	277-2123-ND	7.85	7.64	7.14	1207653

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

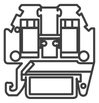

Fig. 2

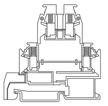

Fig. 3

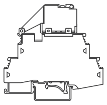

Fig. 4

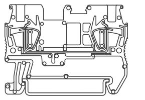

Fig. 5

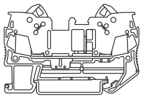

Fig.	Series	UL V/A	Dimensions L x W x H (mm)	DIN Width (mm)	Digi-Key Part No.	Price Each 1	10	Phoenix Contact Part No.
1	MT 1.5	300/15	22 x 4.2 x 23.3	15	277-1506-ND	2.13	2.08	3100305
	MBK 3/E-Z	600/20	28 x 5.2 x 32	15	277-1481-ND	2.60	2.53	1413036
	MBK 5/E-Z	600/30	28 x 6.2 x 32	15	277-1480-ND	2.50	2.43	1402940
	UK 1.5 N	300/15	42.5 x 4.2 x 42	35	277-1504-ND	1.98	1.93	3005837
	UK 2.5 N	300/20	42.5 x 5.2 x 42	35	277-1499-ND	1.89	1.84	3003347
	UK 5 N	600/30	42.5 x 6.2 x 47	35	277-1501-ND	1.91	1.87	3004362
	UK 6 N	600/50	42.5 x 8.2 x 47	35	277-1502-ND	2.59	2.52	3004524
	UK 10 N	600/65	42.5 x 10.2 x 47	35	277-1503-ND	3.42	3.33	3005073
	UDK 4	600/30	63.5 x 6.2 x 47	35	277-1576-ND	4.36	4.24	2775016
	UK 4-TG	600/20	42.5 x 6.2 x 47	35	277-1556-ND	4.83	4.70	2812018
	UT 2.5	600/20	47.7 x 5.2 x 47.5	35	277-2026-ND	.99	.97	3044076
	UT 4	600/30	47.7 x 6.2 x 47.5	35	277-2027-ND	1.08	1.05	3044102
	UT 4-MTD	600/30	57.8 x 6.2 x 47.5	35	277-2028-ND	1.16	1.13	3046184
	UT 6	600/50	47.7 x 8.2 x 47.5	35	277-2029-ND	1.43	1.40	3044131
	UT 10	600/65	47.7 x 10.2 x 47.5	35	277-2030-ND	2.01	1.96	3044160
	RT 3	600/30	66 x 12.3 x 51	35	277-2058-ND	2.97	2.89	3049013
	RT 5	600/30	66 x 16.3 x 51	35	277-2059-ND	3.15	3.06	3049026

(Continued)

DIN Rail Mounted Terminal Blocks and Accessories *(Cont.)*

Fig.	Series	UL V/A	Dimensions L x W x H (mm)	DIN Width (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Phoenix Contact Part No.
2	MTTB 1.5	300/15	44 x 4.2 x 41	35	277-1483-ND	5.21	5.08	1414129
	UKK 5	600/30	56 x 6.2 x 62	35	277-1491-ND	5.06	4.93	2774017
	UKK 5-TG	600/30	80 x 6.2 x 68.5	35	277-1563-ND	13.04	12.68	3007042
	DIK 1.5	300/15	55 x 6.2 x 54.5	35	277-1543-ND	5.02	4.88	2715966
	DIKD 1.5	300/15	72.5 x 6.2 x 54.5	35	277-1544-ND	8.75	8.51	2715979
	DIKD 1.5-TG	300/15	72.5 x 6.2 x 54.5	35	277-1564-ND	9.23	8.98	2774237
	DIKD 1.5-2D	300/15	72.5 x 6.2 x 54.5	35	277-1565-ND	6.74	—	2716512
	UTTB 2.5	600/20	69.9 x 5.2 x 65	35	277-2041-ND	2.75	2.68	3044636
	UTTB 4	300/30	69.9 x 6.2 x 65	35	277-2042-ND	2.82	2.74	3044814
3	UK 5-HESI	600/6.3	72.5 x 8.2 x 56.5	35	277-1557-ND	8.29	8.07	3004100
	UKK 5-HESILA 250 (6.3x32)	600/30	86.5 x 8.2 x 79	35	277-1573-ND	17.27	—	0711616
	UK 6.3-HESI	600/25	79 x 10.2 x 60.5	35	277-1560-ND	10.33	10.05	3004171
	UK 6.3-HESILED 24	600/25	79 x 10.2 x 60.5	35	277-1561-ND	14.53	13.37	3004265
	UK 6.3-HESILA 250	600/25	79 x 10.2 x 60.5	35	277-1562-ND	14.53	13.37	3004249
	UT 4-HESI (5x20)	600/6.3	57.8 x 6.2 x 73	35	277-2034-ND	5.54	5.40	3046032
	UT 4-HESILED 24 (5x20)	600/6.3	57.8 x 6.2 x 73	35	277-2035-ND	8.97	8.73	3046090
	UT 4-HESILA 250 (5x20)	600/6.3	57.8 x 6.2 x 73	35	277-2036-ND	9.20	8.95	3046100
	ST 4-HESI (5x20)	300/15	61.5 x 6.2 x 62.5	35	277-2056-ND	6.55	6.37	3036369
	ST 4-HESI (6.3x32)	300/15	76.5 x 8.2 x 69	35	277-2057-ND	7.89	7.68	3036385
4	ST 1.5	300/15	48.5 x 4.2 x 36.5	35	277-2050-ND	1.25	1.22	3031076
	ST 2.5	600/20	48.5 x 5.2 x 36.5	35	277-2051-ND	1.39	1.35	3031212
	ST 4	600/30	56 x 6.2 x 36.5	35	277-2052-ND	1.63	1.59	3031364
5	QTC 1.5	600/10	58.8 x 5.2 x 39.3	35	277-2045-ND	1.40	1.36	3205019
	QTC 2.5	600/15	62.6 x 6.2 x 39.3	35	277-2046-ND	1.56	1.52	3206416
—	ST 4-FSI/C	300/30	86.5 x 8.2 x 43.5	35	277-2055-ND	5.81	5.65	3036372

Accessories

Description, Width	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Phoenix Contact Part No.
Grounding Blocks					
MT 1.5-PE, 4.2mm	277-1507-ND	6.68	6.50	6.07	3100318
MBK 3/E-Z-PE, 5.2mm	277-1482-ND	6.01	5.85	5.46	1413117
MBK 5/E-Z-PE, 6.2mm	277-1520-ND	6.48	6.31	5.89	0452043
RT 3-PE, 12.3mm	277-2060-ND	6.33	6.16	5.75	3049411
RT 5-PE, 16.3mm	277-2061-ND	7.24	7.05	6.58	3049424
ST 2.5-PE, 5.2mm	277-2053-ND	4.96	4.83	4.51	3031238
ST 4-PE, 6.2mm	277-2054-ND	4.99	4.86	4.54	3031380
UKK 5-PE, 6.2mm	277-1492-ND	13.97	12.86	11.88	2774211
USLKG 1.5 N, 4.2mm	277-1505-ND	15.18	14.77	13.80	3005853
USLKG 2.5 N, 5.2mm	277-1517-ND	7.71	7.51	7.01	0441119
USLKG 5, 6.2mm	277-1518-ND	7.36	7.16	6.69	0441504
USLKG 6 N, 8.2mm	277-1519-ND	8.29	8.07	7.54	0442079
USLKG 10 N, 10.2mm	277-1500-ND	9.00	8.76	8.18	3003923
UT 2.5-PE, 5.2mm	277-2031-ND	3.64	3.55	3.31	3044092
UT 4-PE, 6.2mm	277-2032-ND	4.03	3.92	3.66	3044128
UT 6-PE, 8.2mm	277-2033-ND	4.59	4.47	4.17	3044157
End Covers					
D-MT 1.5, 1mm	277-1508-ND	.66	.65	.60	3100321
D-MTTB 1.5, 1mm	277-1495-ND	1.06	1.03	.96	3002665
D-MBK/E, 1mm	277-1484-ND	.79	.77	.72	1415021
D-UK 2.5, 1.5mm	277-1493-ND	1.08	1.05	.98	3001022
D-UK 4/10, 1.8mm	277-1498-ND	1.10	1.07	1.00	3003020
D-UKK 3/5, 2.5mm	277-1487-ND	1.66	1.62	1.51	2770024
D-UDK RELG, 1.5mm	277-1545-ND	.78	—	—	2777027
D-UDK 4, 1.5mm	277-1577-ND	1.52	1.48	1.38	2775113
D-UT 2.5/10, 2.2mm	277-2038-ND	.52	.51	.47	3047028
D-UT 2.5/4-TWIN, 2.2mm	277-2039-ND	.54	.53	.49	3047141
D-UTTB 2.5/4, 2.2mm	277-2043-ND	.92	.90	.84	3047293
D-QTC 1.5, 2.2mm	277-2047-ND	.75	.73	.68	3205161
D-QTC 2.5, 2.2mm	277-2048-ND	.75	.73	.68	3206568
D-RT 3/5, 2.2mm	277-2062-ND	.46	.45	.42	3049097
Spacer Covers					
DG-MTTB 1.5, 2mm	277-1496-ND	1.25	1.22	1.14	3002678
DG-UKK 3/5, 2.5mm	277-1490-ND	1.80	1.76	1.64	2770817
Spacer Plates					
DP-MTTB 1.5, 2mm	277-1497-ND	1.17	1.14	1.06	3002681
DP-UKK 3/5, 2.5mm	277-1489-ND	1.22	1.19	1.11	2770794
DP-UTTB 2.5/4, 2.6mm	277-2044-ND	.88	.86	.80	3047303

Description, Width	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Phoenix Contact Part No.
Fixed Bridges					
FBRN 10-4 N	277-1494-ND	6.97	6.51	5.99	3001624
FBRI 10-5 N	277-1488-ND	9.65	9.02	8.30	2770642
FBRI 10-8 N	277-1568-ND	10.24	9.57	8.81	2772080
FBI 10-6	277-1514-ND	7.99	7.47	6.88	0203250
FBI 10-8	277-1515-ND	9.62	8.99	8.28	0203263
FBI 10-10	277-1516-ND	12.48	11.66	10.73	0203276
Partition Plates					
2mm for DIK	277-1540-ND	1.63	1.59	1.48	1413272
2mm for DIKD	277-1541-ND	1.80	1.76	1.64	1413285
1.5mm for UK	277-1542-ND	1.28	1.25	1.16	3003224
2mm for UT	277-2040-ND	.62	.60	.56	3047167
2mm for QTC	277-2049-ND	.61	.59	.55	3206209
Isolator Bridge Bar					
Use with 1302338	277-1550-ND	6.41	5.99	5.52	0301505
Bridge Bar Isolator					
Use with 0301505	277-1549-ND	.55	.53	.52	1302338
Insertion Bridges					
EBL 10-5	277-1486-ND	2.87	2.68	2.47	2303132
EB 10-6	277-1511-ND	4.59	4.29	3.95	0201139
EBS 10-8	277-1548-ND	5.48	5.12	4.72	3118135
EB 10-10	277-1513-ND	7.62	7.12	6.56	0203137
EB 56-18	277-1566-ND	62.70	57.69	53.30	3009299
EB 56-18/L1-L2-L3	277-1567-ND	124.99	—	—	3009367
EB 80-DIK BU	277-1546-ND	48.51	44.63	41.24	2715940
EB 80-DIK RD	277-1547-ND	48.51	44.63	41.24	2715953
Marker Pen					
M-PEN, Black	277-1474-ND	15.60	14.36	13.26	1051993
Screwdrivers					
SZS 0.4 x 2.5	277-1477-ND	11.59	10.67	9.86	1205037
SZS 0.6 x 3.5	277-1478-ND	11.59	10.67	9.86	1205053
SZS 1.0 x 4.0	277-1479-ND	17.50	16.10	14.88	1205066
End Brackets					
E/MK 1, 6mm	277-1485-ND	1.10	1.06	1.03	1421659
E/NS 35 N, 9.5mm	277-1523-ND	1.36	1.33	1.24	0800886
NEW! DIN Rails NEW!					
NS 35/7.5 PERF 1 METER	277-2064-ND	8.35	7.69	6.77	807012
Fuse Plugs					
ST-SILED 24-UK 4	277-1552-ND	12.77	11.75	10.86	0921037
ST-SI-UK 4	277-1553-ND	3.78	3.69	3.44	0921011

(Continued)

DIN Rail Mounted Terminal Blocks and Accessories

Accessories *(Cont.)*

Style	Description	Digi-Key Part No.	Price Each 1	10	50	Phoenix Contact Part No.
	Marker Strips					
A	ZBFM 4/WH: UNPRINTED — Unprinted, will Mark 100 Termination Points	277-1524-ND	9.03	8.44	7.77	0803579
B	ZBFM 4/WH: LGS: 1-100 — Preprinted 1-100, will Mark 100 Termination Points	277-1522-ND	14.13	13.21	12.16	0800268
A	ZBFM 8/WH: UNPRINTED	277-1575-ND	6.82	—	—	0800734
C	ZB 4: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1525-ND	1.67	1.56	1.44	0805001
D	ZB 5: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1472-ND	.89	.83	.77	1050004
E	ZB 6: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1473-ND	.93	.87	.81	1051003
F	ZB 8: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1475-ND	1.03	.96	.89	1052002
G	ZB 10: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1476-ND	1.56	1.46	1.35	1053001
H	ZB 5, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1528-ND	1.44	1.35	1.25	1050017:0001
I	ZB 6, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1530-ND	1.44	1.35	1.25	1051016:0001
J	ZB 8, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1532-ND	2.21	2.07	1.91	1052015:0001
K	ZB 10, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1534-ND	2.25	2.10	1.94	1053014:0001
L	ZB 5, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1529-ND	1.44	1.35	1.25	1050017:0011
M	ZB 6, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1531-ND	1.44	1.35	1.25	1051016:0011
N	ZB 8, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1533-ND	2.21	2.07	1.91	1052015:0011
O	ZB 10, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1535-ND	2.25	2.10	1.94	1053014:0011
P	ZB 4, QR: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1526-ND	2.28	2.13	1.96	0805807:0001
Q	ZB 4, QR: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1527-ND	2.28	2.13	1.96	0805807:0011

DIN Rail Mounted Interface Modules

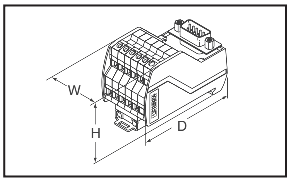

Incorporating a contemporary industrial design, VARIOFACE Professional (VIP) offers a next-generation approach to passive 1:1 wiring for applications that require fast, fault-free connection of field devices, such as process or motion controllers. By utilizing D-sub cable connection to the controller and screw-cage termination to field devices, the end-user saves valuable time in installing and troubleshooting a system. VARIOFACE Professional is available in both two and three level field I/O configurations and accommodates 9-, 15-, 25-, 37- and 50-position D-sub cable connectors in both male and female versions.

Features: • Compact design reduces space requirements in the control cabinet • I/O marking for field wiring clearly identified when device is mounted • Integrated ZB channel allows flexible marking of device • A single, metal mounting foot allows easy installation and removal to the mounting rail • Movable mounting foot allows flexible module positioning during wire installation

Specifications: • Operating Voltage: 125VAC/DC • 2A maximum • Operating Temperature Range: -20°C ~ 50°C

Description	Dimensions (mm) W	D	H	Digi-Key Part No.	Price Each 1	10	50	Phoenix Contact Part No.
D-Sub Male Connector, 9 Position	34.7	45.1	65.5	277-2008-ND	34.72	31.95	29.52	2315117
D-Sub Female Connector, 9 Position	34.7	45.1	65.5	277-2009-ND	34.72	31.95	29.52	2315162
D-Sub Male Connector, 25 Position	57.4	62.0	69.0	277-2010-ND	53.72	49.43	45.67	2315133
D-Sub Female Connector, 25 Position	57.4	62.0	69.0	277-2011-ND	53.72	49.43	45.67	2315188
D-Sub Male Connector, 50 Position	98.2	62.0	69.0	277-2012-ND	97.41	89.62	82.80	2315159
D-Sub Female Connector, 50 Position	98.2	62.0	69.0	277-2013-ND	97.41	89.62	82.80	2315201

NEW! PTSM PCB Terminal Blocks

Digi-Reel®

Features:

- Quick push-in technology connection
- Cost-saving mounting technology using Through Hole Reflow (THR) or true Surface Mount Technology (SMD)
- Small 2.5mm and standing at only 5mm tall makes the PTSM optimal for any tight space
- Spring-cage connector is rated for 5A @ 150V

Fig. 1

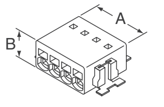

Fig. 2

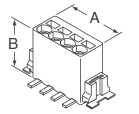

Fig. 3

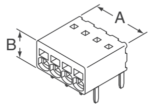

Fig. 4

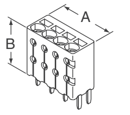

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Phoenix Contact Type No.	Phoenix Contact Part No.
						2.5mm SMD — Right Angle						
1	2	5.5	5	277-2065-1-ND	.56	5.16	24.73	277-2065-2-ND	770	331.10	PTSM 0.5/2-2.5-H SMD R44	1771020
	3	8	5	277-2066-1-ND	.68	6.24	29.90	277-2066-2-ND	770	400.40	PTSM 0.5/3-2.5-H SMD R44	1771033
	4	10.5	5	277-2067-1-ND	.81	7.44	35.65	277-2067-2-ND	770	477.40	PTSM 0.5/4-2.5-H SMD R44	1771046
	5	13	5	277-2068-1-ND	.90	8.28	39.68	277-2068-2-ND	770	531.30	PTSM 0.5/5-2.5-H SMD R44	1771059
	6	15.5	5	277-2069-1-ND	1.03	9.48	45.43	277-2069-2-ND	770	608.30	PTSM 0.5/6-2.5-H SMD R44	1771062
	7	18	5	277-2070-1-ND	1.08	9.96	47.73	277-2070-2-ND	770	639.10	PTSM 0.5/7-2.5-H SMD R44	1771075
	8	20.5	5	277-2071-1-ND	1.21	11.16	53.48	277-2071-2-ND	770	716.10	PTSM 0.5/8-2.5-H SMD R44	1771088
						2.5mm SMD — Vertical						
2	2	5.5	6	277-2072-1-ND	.62	5.76	27.60	277-2072-2-ND	400	192.00	PTSM 0.5/2-2.5-V SMD R44	1771091
	3	8	6	277-2073-1-ND	.72	6.60	31.63	277-2073-2-ND	400	220.00	PTSM 0.5/3-2.5-V SMD R44	1771101
	4	10.5	6	277-2074-1-ND	.83	7.68	36.80	277-2074-2-ND	400	256.00	PTSM 0.5/4-2.5-V SMD R44	1771114
	5	13	6	277-2075-1-ND	.92	8.52	40.83	277-2075-2-ND	400	284.00	PTSM 0.5/5-2.5-V SMD R44	1771127
	6	15.5	6	277-2076-1-ND	1.05	9.72	46.58	277-2076-2-ND	400	324.00	PTSM 0.5/6-2.5-V SMD R44	1771130
	7	18	6	277-2077-1-ND	1.17	10.80	51.75	277-2077-2-ND	400	360.00	PTSM 0.5/7-2.5-V SMD R44	1771143
	8	20.5	6	277-2078-1-ND	1.24	11.40	54.63	277-2078-2-ND	400	380.00	PTSM 0.5/8-2.5-V SMD R44	1771156
						2.5mm Through Hole — Right Angle						
3	2	5.5	5	277-2079-1-ND	.43	3.96	18.98	277-2079-2-ND	530	174.90	PTSM 0.5/2-2.5-H THR R24	1770885
	3	8	5	277-2080-1-ND	.62	5.76	27.60	277-2080-2-ND	530	254.40	PTSM 0.5/3-2.5-H THR R32	1770898
	4	10.5	5	277-2081-1-ND	.72	6.60	31.63	277-2081-2-ND	530	291.50	PTSM 0.5/4-2.5-H THR R32	1770908
	5	13	5	277-2082-1-ND	.83	7.68	36.80	277-2082-2-ND	530	339.20	PTSM 0.5/5-2.5-H THR R32	1770911
	6	15.5	5	277-2083-1-ND	1.03	9.48	45.43	277-2083-2-ND	530	418.70	PTSM 0.5/6-2.5-H THR R32	1770924
	7	18	5	277-2084-1-ND	1.17	10.80	51.75	277-2084-2-ND	530	477.00	PTSM 0.5/7-2.5-H THR R32	1770937
	8	20.5	5	277-2085-1-ND	1.37	12.60	60.38	277-2085-2-ND	530	556.50	PTSM 0.5/8-2.5-H THR R32	1770940
						2.5mm Through Hole — Vertical						
4	2	5.5	6	277-2086-1-ND	.49	4.56	21.85	277-2086-2-ND	310	117.80	PTSM 0.5/2-2.5-V THR R44	1770953
	3	8	6	277-2087-1-ND	.62	5.76	27.60	277-2087-2-ND	310	148.80	PTSM 0.5/3-2.5-V THR R44	1770966
	4	10.5	6	277-2088-1-ND	.78	7.20	34.50	277-2088-2-ND	310	186.00	PTSM 0.5/4-2.5-V THR R44	1770979
	5	13	6	277-2089-1-ND	.92	8.52	40.83	277-2089-2-ND	310	220.10	PTSM 0.5/5-2.5-V THR R44	1770982
	6	15.5	6	277-2090-1-ND	1.08	9.96	47.73	277-2090-2-ND	310	257.30	PTSM 0.5/6-2.5-V THR R44	1770995
	7	18	6	277-2091-1-ND	1.24	11.40	54.63	277-2091-2-ND	310	294.50	PTSM 0.5/7-2.5-V THR R44	1771004
	8	20.5	6	277-2092-1-ND	1.43	13.20	63.25	277-2092-2-ND	310	341.00	PTSM 0.5/8-2.5-V THR R44	1771017
						Accessories						
Flat Screwdriver 0.4mm x 2.0mm				277-2093-ND	14.55	133.86	618.38	—	—	—	SZS 0.4x2.0	1205202

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Terminal Blocks — PCB Plugs and Headers

Fig. 1

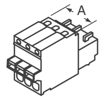

Fig. 2

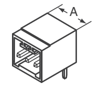

Fig. 3

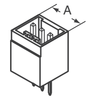

Fig. 4

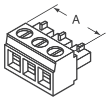

Fig. 5

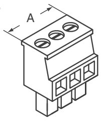

Fig. 6

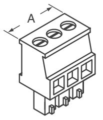

Fig. 7

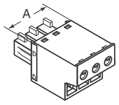

Fig. 8

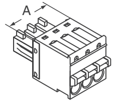

Fig. 9

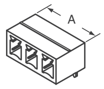

Fig. 10

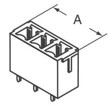

Fig. 11

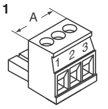

(Numbered Version Shown)

Fig. 12

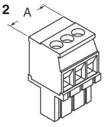

Fig. 13

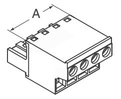

Fig. 14

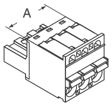

Fig. 15

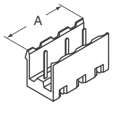

Fig. 16

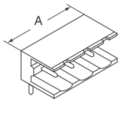

Fig. 17

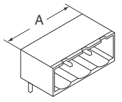

Fig. 18

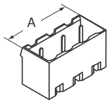

Fig. 19

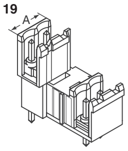

Fig. 20

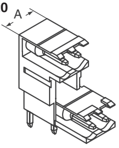

Fig. 21

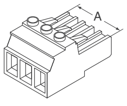

Fig. 22

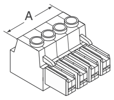

Fig. 23

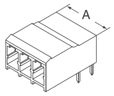

Fig. 24

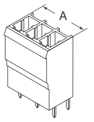

Fig. 25

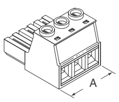

Fig. 26

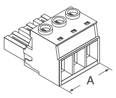

Fig. 27

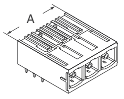

Fig. 28

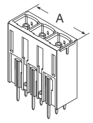

No. of Pos.	Dim. A (mm)	UL V	UL A	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 2.5mm Spring Cage Terminal Block Plugs									
2	5.6	125	4	277-1430-ND	2.21	21.51	100.50	FK-MC 0.5/2-ST-2.5	1881325
3	8.1	125	4	277-1431-ND	3.32	32.31	151.00	FK-MC 0.5/3-ST-2.5	1881338
4	10.6	125	4	277-1432-ND	4.42	43.01	201.00	FK-MC 0.5/4-ST-2.5	1881341
5	13.1	125	4	277-1433-ND	5.53	53.82	251.50	FK-MC 0.5/5-ST-2.5	1881354
6	15.6	125	4	277-1434-ND	6.63	64.52	301.50	FK-MC 0.5/6-ST-2.5	1881367
7	18.1	125	4	277-1435-ND	7.74	75.33	352.00	FK-MC 0.5/7-ST-2.5	1881370
8	20.6	125	4	277-1436-ND	8.83	85.92	401.50	FK-MC 0.5/8-ST-2.5	1881383
9	23.1	125	4	277-1437-ND	9.96	96.84	452.50	FK-MC 0.5/9-ST-2.5	1881396
10	25.6	125	4	277-1438-ND	11.07	107.64	503.00	FK-MC 0.5/10-ST-2.5	1881406
12	30.6	125	4	277-1440-ND	13.27	129.04	603.00	FK-MC 0.5/12-ST-2.5	1881422
Fig. 2 — 2.5mm Connector Headers — Right Angle									
2	6.9	125	4	277-1441-ND	.69	6.74	31.50	MC 0.5/2-G-2.5	1881448
3	9.4	125	4	277-1442-ND	.99	9.63	45.00	MC 0.5/3-G-2.5	1881451
4	11.9	125	4	277-1443-ND	1.32	12.84	60.00	MC 0.5/4-G-2.5	1881464
5	14.4	125	4	277-1444-ND	1.62	15.73	73.50	MC 0.5/5-G-2.5	1881477
6	16.9	125	4	277-1445-ND	1.91	18.62	87.00	MC 0.5/6-G-2.5	1881480
7	19.4	125	4	277-1446-ND	2.21	21.51	100.50	MC 0.5/7-G-2.5	1881493
8	21.9	125	4	277-1447-ND	2.52	24.50	114.50	MC 0.5/8-G-2.5	1881503
10	26.9	125	4	277-1449-ND	3.14	30.50	142.50	MC 0.5/10-G-2.5	1881529
11	29.4	125	4	277-1450-ND	2.13	—	—	MC 0.5/11-G-2.5	1881532
12	31.9	125	4	277-1451-ND	3.74	36.38	170.00	MC 0.5/12-G-2.5	1881545
Fig. 3 — 2.5mm Connector Headers — Vertical									
2	6.9	125	4	277-1452-ND	.69	6.74	31.50	MCV 0.5/2-G-2.5	1881558
3	9.4	125	4	277-1453-ND	.99	9.63	45.00	MCV 0.5/3-G-2.5	1881561
4	11.9	125	4	277-1454-ND	1.32	12.84	60.00	MCV 0.5/4-G-2.5	1881574
5	14.4	125	4	277-1455-ND	1.62	15.73	73.50	MCV 0.5/5-G-2.5	1881587
6	16.9	125	4	277-1456-ND	1.91	18.62	87.00	MCV 0.5/6-G-2.5	1881590
8	21.9	125	4	277-1458-ND	2.52	24.50	114.50	MCV 0.5/8-G-2.5	1881613
10	26.9	125	4	277-1460-ND	2.98	29.00	135.50	MCV 0.5/10-G-2.5	1881639
11	29.4	125	4	277-1461-ND	2.13	—	—	MCV 0.5/11-G-2.5	1881642
12	31.9	125	4	277-1462-ND	3.74	36.38	170.00	MCV 0.5/12-G-2.5	1881655
Fig. 4 — 3.81mm Connector Terminal Block Plugs									
2	8.41	300	8	277-1161-ND	1.73	16.80	78.50	MC 1.5/2-ST-3.81	1803578
3	12.22	300	8	277-1162-ND	2.59	25.15	117.50	MC 1.5/3-ST-3.81	1803581
4	16.03	300	8	277-1163-ND	3.42	33.28	155.50	MC 1.5/4-ST-3.81	1803594
5	19.84	300	8	277-1164-ND	4.32	42.05	196.50	MC 1.5/5-ST-3.81	1803604
6	23.65	300	8	277-1165-ND	5.15	50.08	234.00	MC 1.5/6-ST-3.81	1803617
7	27.46	300	8	277-1166-ND	6.07	59.06	276.00	MC 1.5/7-ST-3.81	1803620
8	31.27	300	8	277-1167-ND	6.84	66.55	311.00	MC 1.5/8-ST-3.81	1803633
9	35.08	300	8	277-1168-ND	7.80	75.86	354.50	MC 1.5/9-ST-3.81	1803646
10	38.89	300	8	277-1169-ND	8.61	83.78	391.50	MC 1.5/10-ST-3.81	1803659
11	42.70	300	8	277-1170-ND	9.52	92.56	432.50	MC 1.5/11-ST-3.81	1803662
12	46.51	300	8	277-1171-ND	10.37	100.90	471.50	MC 1.5/12-ST-3.81	1803675
14	54.13	300	8	277-1173-ND	12.11	117.81	550.50	MC 1.5/14-ST-3.81	1803691
15	57.94	300	8	277-1174-ND	12.98	126.26	590.00	MC 1.5/15-ST-3.81	1803701
16	61.75	300	8	277-1175-ND	13.84	134.61	629.00	MC 1.5/16-ST-3.81	1803714
Fig. 5 — 3.81mm Connector Terminal Block Plugs									
2	8.41	300	8	277-1176-ND	1.88	18.30	85.50	MCVW 1.5/2-ST-3.81	1826979
3	12.22	300	8	277-1177-ND	2.79	27.18	127.00	MCVW 1.5/3-ST-3.81	1826982
4	16.03	300	8	277-1178-ND	3.71	36.06	168.50	MCVW 1.5/4-ST-3.81	1826995
5	19.84	300	8	277-1179-ND	4.66	45.37	212.00	MCVW 1.5/5-ST-3.81	1827004
6	23.65	300	8	277-1180-ND	5.59	54.36	254.00	MCVW 1.5/6-ST-3.81	1827017
7	27.46	300	8	277-1181-ND	6.51	63.34	296.00	MCVW 1.5/7-ST-3.81	1827020
8	31.27	300	8	277-1182-ND	7.46	72.55	339.00	MCVW 1.5/8-ST-3.81	1827033
9	35.08	300	8	277-1183-ND	8.40	81.75	382.00	MCVW 1.5/9-ST-3.81	1827046
10	38.89	300	8	277-1184-ND	9.32	90.63	423.50	MCVW 1.5/10-ST-3.81	1827059
11	42.70	300	8	277-1185-ND	6.36	—	—	MCVW 1.5/11-ST-3.81	1827062
12	46.51	300	8	277-1186-ND	11.21	109.03	509.50	MCVW 1.5/12-ST-3.81	1827075
13	50.32	300	8	277-1187-ND	7.50	—	—	MCVW 1.5/13-ST-3.81	1827088
14	54.13	300	8	277-1188-ND	13.07	127.12	594.00	MCVW 1.5/14-ST-3.81	1827091
16	61.75	300	8	277-1190-ND	14.94	145.31	679.00	MCVW 1.5/16-ST-3.81	1827114
Fig. 6 — 3.81mm Connector Terminal Block Plugs									
2	8.41	300	8	277-1191-ND	1.88	18.30	85.50	MCVR 1.5/2-ST-3.81	1827127
3	12.22	300	8	277-1192-ND	2.79	27.18	127.00	MCVR 1.5/3-ST-3.81	1827130
4	16.03	300	8	277-1193-ND	3.71	36.06	168.50	MCVR 1.5/4-ST-3.81	1827143
5	19.84	300	8	277-1194-ND	4.66	45.37	212.00	MCVR 1.5/5-ST-3.81	1827156
6	23.65	300	8	277-1195-ND	5.59	54.36	254.00	MCVR 1.5/6-ST-3.81	1827169
7	27.46	300	8	277-1196-ND	6.51	63.34	296.00	MCVR 1.5/7-ST-3.81	1827172
8	31.27	300	8	277-1197-ND	7.46	72.55	339.00	MCVR 1.5/8-ST-3.81	1827185
9	35.08	300	8	277-1198-ND	8.40	81.75	382.00	MCVR 1.5/9-ST-3.81	1827198
10	38.89	300	8	277-1199-ND	9.32	90.63	423.50	MCVR 1.5/10-ST-3.81	1827208
11	42.70	300	8	277-1200-ND	10.26	99.83	466.50	MCVR 1.5/11-ST-3.81	1827211
12	46.51	300	8	277-1201-ND	11.21	109.03	509.50	MCVR 1.5/12-ST-3.81	1827224
13	50.32	300	8	277-1202-ND	12.11	117.81	550.50	MCVR 1.5/13-ST-3.81	1827237
14	54.13	300	8	277-1203-ND	13.07	127.12	594.00	MCVR 1.5/14-ST-3.81	1827240
16	61.75	300	8	277-1205-ND	14.94	145.31	679.00	MCVR 1.5/16-ST-3.81	1827266
Fig. 7 — 3.81mm Connector Terminal Block Plugs									
2	8.41	300	8	277-1902-ND	3.63	35.31	165.00	FRONT-MC 1.5/2-ST-3.81	1850660
3	12.22	300	8	277-1903-ND	5.41	52.64	246.00	FRONT-MC 1.5/3-ST-3.81	1850673
4	16.03	300	8	277-1904-ND	7.24	70.41	329.00	FRONT-MC 1.5/4-ST-3.81	1850686
5	19.84	300	8	277-1905-ND	9.05	88.06	411.50	FRONT-MC 1.5/5-ST-3.81	1850699
6	23.65	300	8	277-1906-ND	11.28	109.68	512.50	FRONT-MC 1.5/6-ST-3.81	1850709
7	27.46	300	8	277-1907-ND	12.67	123.26	576.00	FRONT-MC 1.5/7-ST-3.81	1850712
8	31.27	300	8	277-1908-ND	14.44	140.49	656.50	FRONT-MC 1.5/8-ST-3.81	1850725
10	38.89	300	8	277-1910-ND	18.06	175.69	821.00	FRONT-MC 1.5/10-ST-3.81	1850741
Fig. 8 — 3.81mm Connector Terminal Block Plugs									
3	12.22	300	8	277-1323-ND	4.38	42.59	199.00	FK-MCP 1.5/3-ST-3.81	1851054
4	16.03	300	8	277-1324-ND	5.90	57.35	268.00	FK-MCP 1.5/4-ST-3.81	1851067
5	19.84	300	8	277-1325-ND	7.33	71.26	333.00	FK-MCP 1.5/5-ST-3.81	1851070
6	23.65	300	8	277-1326-ND	8.79	85.49	399.50	FK-MCP 1.5/6-ST-3.81	1851083
7	27.46	300	8	277-1327-ND	10.29	100.05	467.50	FK-MCP 1.5/7-ST-3.81	1851096
8	31.27	300	8	277-1328-ND	11.76	114.38	534.50	FK-MCP 1.5/8-ST-3.81	1851106
10	38.89	300	8	277-1330-ND	14.69	142.85	667.50	FK-MCP 1.5/10-ST-3.81	1851122
Fig. 9 — 3.81mm Connector Headers — Right Angle									
2	9.01	300	8	277-1206-ND	.61	5.89	27.50	MC 1.5/2-G-3.81	1803277
3	12.82	300	8	277-1207-ND	.91	8.88	41.50	MC 1.5/3-G-3.81	1803280
4	16.63	300	8	277-1208-ND	1.23	11.98	56.00	MC 1.5/4-G-3.81	1803293
5	20.44	300	8	277-1209-ND	1.50	14.55	68.00	MC 1.5/5-G-3.81	1803303
6	24.25	300	8	277-1210-ND	1.83	17.76	83.00	MC 1.5/6-G-3.81	1803316
7	28.06	300	8	277-1211-ND	2.13	20.76	97.00	MC 1.5/7-G-3.81	1803329
8	31.87	300	8	277-1212-ND	2.42	23.54	110.00	MC 1.5/8-G-3.81	1803332
9	35.68	300	8	277-1213-ND	2.76	26.86	125.50	MC 1.5/9-G-3.81	1803345
10	39.49	300	8	277-1214-ND	3.04	29.53	138.00	MC 1.5/10-G-3.81	1803358
11	43.30	300	8	277-1215-ND	3.36	32.64	152.50	MC 1.5/11-G-3.81	1803361
12	47.11	300	8	277-1216-ND	3.66	35.63	166.50	MC 1.5/12-G-3.81	1803374
13	50.92	300	8	277-1217-ND	3.97	38.63	180.50	MC 1.5/13-G-3.81	1803387
14	54.73	300	8	277-1218-ND	4.26	41.41	193.50	MC 1.5/14-G-3.81	1803390
15	58.54	300	8	277-1219-ND	4.57	44.41	207.50	MC 1.5/15-G-3.81	1803400
16	62.35	300	8	277-1220-ND	4.84	47.08	220.00	MC 1.5/16-G-3.81	1803413
Fig. 10 — 3.81mm Connector Headers — Vertical									
2	9.01	300	8	277-1221-ND	.61	5.89	27.50	MCV 1.5/2-G-3.81	1803426
3	12.82	300	8	277-1222-ND	.91	8.88	41.50	MCV 1.5/3-G-3.81	1803439
4	16.63	300	8	277-1223-ND	1.23	11.98	56.00	MCV 1.5/4-G-3.81	1803442
5	20.44	300	8	277-1224-ND	1.50	14.55	68.00	MCV 1.5/5-G-3.81	1803455
6	24.25	300	8	277-1225-ND	1.82	17.66	82.50	MCV 1.5/6-G-3.81	1803468
7	28.06	300	8	277-1226-ND	2.13	20.76	97.00	MCV 1.5/7-G-3.81	1803471
8	31.87	300	8	277-1227-ND	2.40	23.33	109.00	MCV 1.5/8-G-3.81	1803484
9	35.68	300	8	277-1228-ND	2.76	26.86	125.50	MCV 1.5/9-G-3.81	1803497
10	39.49	300	8	277-1229-ND	3.04	29.53	138.00	MCV 1.5/10-G-3.81	1803507
11	43.30	300	8	277-1230-ND	3.36	32.64	152.50	MCV 1.5/11-G-3.81	1803510
12	47.11	300	8	277-1231-ND	3.69	35.85	167.50	MCV 1.5/12-G-3.81	1803523
13	50.92	300	8	277-1232-ND	3.97	38.63	180.50	MCV 1.5/13-G-3.81	1803536
14	54.73	300	8	277-1233-ND	4.26	41.41	193.50	MCV 1.5/14-G-3.81	1803549
15	58.54	300	8	277-1234-ND	4.57	44.41	207.50	MCV 1.5/15-G-3.81	1803552
16	62.35	300	8	277-1235-ND	4.84	47.08	220.00	MCV 1.5/16-G-3.81	1803565
Fig. 11 — 5.0mm Connector Terminal Block Plugs									
2	10	300	10	277-1000-ND	1.44	14.02	65.50	MSTB 2.5/2-ST	1754449

§ Number of positions per level

(Continued)

Terminal Blocks — PCB Plugs and Headers *(Cont.)*

No. of Pos.	Dim. A (mm)	UL V	UL A	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Phoenix Contact Type No.	Phoenix Contact Part No.
3	15	300	10	277-1001-ND	2.18	21.19	99.00	MSTB 2.5/3-ST	1754465
4	20	300	10	277-1002-ND	2.90	28.25	132.00	MSTB 2.5/4-ST	1754481
5	25	300	10	277-1003-ND	3.62	35.20	164.50	MSTB 2.5/5-ST	1754504
6	30	300	10	277-1004-ND	4.35	42.27	197.50	MSTB 2.5/6-ST	1754520
7	35	300	10	277-1005-ND	5.08	49.43	231.00	MSTB 2.5/7-ST	1754546
8	40	300	10	277-1006-ND	5.81	56.50	264.00	MSTB 2.5/8-ST	1754562
9	45	300	10	277-1007-ND	6.53	63.56	297.00	MSTB 2.5/9-ST	1754588
10	50	300	10	277-1008-ND	7.26	70.62	330.00	MSTB 2.5/10-ST	1754601
11	55	300	10	277-1009-ND	7.98	77.58	362.50	MSTB 2.5/11-ST	1754627
12	60	300	10	277-1010-ND	8.70	84.64	395.50	MSTB 2.5/12-ST	1754643
Fig. 11 — 5.0mm Connector Terminal Block Plugs — Numbered Version									
2	10	300	10	277-1957-ND	1.58	15.41	72.00	MSTB 2.5/2-ST BD:1-2	1829756
3	15	300	10	277-1958-ND	2.38	23.11	108.00	MSTB 2.5/3-ST BD:1-3	1765344
4	20	300	10	277-1959-ND	3.17	30.82	144.00	MSTB 2.5/4-ST BD:1-4	1751086
5	25	300	10	277-1960-ND	3.96	38.52	180.00	MSTB 2.5/5-ST BD:1-5	1826681
6	30	300	10	277-1961-ND	4.69	45.58	213.00	MSTB 2.5/6-ST BD:1-6	1828090
7	35	300	10	277-1962-ND	5.43	52.86	247.00	MSTB 2.5/7-ST BD:1-7	1876398
8	40	300	10	277-1963-ND	6.16	59.92	280.00	MSTB 2.5/8-ST BD:1-8	1765315
Fig. 11 — 5.08mm Connector Terminal Block Plugs									
2	10.16	300	10	277-1011-ND	1.44	14.02	65.50	MSTB 2.5/2-ST-5.08	1757019
3	15.24	300	10	277-1012-ND	2.18	21.19	99.00	MSTB 2.5/3-ST-5.08	1757022
4	20.32	300	10	277-1013-ND	2.90	28.25	132.00	MSTB 2.5/4-ST-5.08	1757035
5	25.40	300	10	277-1014-ND	3.62	35.20	164.50	MSTB 2.5/5-ST-5.08	1757048
6	30.48	300	10	277-1015-ND	4.35	42.27	197.50	MSTB 2.5/6-ST-5.08	1757051
7	35.56	300	10	277-1016-ND	5.08	49.43	231.00	MSTB 2.5/7-ST-5.08	1757064
8	40.64	300	10	277-1017-ND	5.81	56.50	264.00	MSTB 2.5/8-ST-5.08	1757077
9	45.72	300	10	277-1018-ND	6.53	63.56	297.00	MSTB 2.5/9-ST-5.08	1757080
10	50.80	300	10	277-1019-ND	7.26	70.62	330.00	MSTB 2.5/10-ST-5.08	1757093
11	55.88	300	10	277-1020-ND	7.98	77.58	362.50	MSTB 2.5/11-ST-5.08	1757103
12	60.96	300	10	277-1021-ND	8.70	84.64	395.50	MSTB 2.5/12-ST-5.08	1757116
Fig. 11 — 5.08mm Connector Terminal Block Plugs — Numbered Version									
2	10.16	300	10	277-1964-ND	1.58	15.41	72.00	MSTB 2.5/2-ST-5.08 BD:1-2	1758364
3	15.24	300	10	277-1965-ND	2.38	23.11	108.00	MSTB 2.5/3-ST-5.08 BD:1-3	1762208
4	20.32	300	10	277-1966-ND	3.17	30.82	144.00	MSTB 2.5/4-ST-5.08 BD:1-4	1758377
5	25.40	300	10	277-1967-ND	3.96	38.52	180.00	MSTB 2.5/5-ST-5.08 BD:1-5	1760006
6	30.48	300	10	277-1968-ND	4.69	45.58	213.00	MSTB 2.5/6-ST-5.08 BD:1-6	1758380
7	35.56	300	10	277-1969-ND	5.43	52.86	247.00	MSTB 2.5/7-ST-5.08 BD:1-7	1746583
8	40.64	300	10	277-1970-ND	6.16	59.92	280.00	MSTB 2.8/8-ST-5.08 BD:1-8	1758393
Fig. 12 — 5.0mm Connector Terminal Block Plugs									
2	10	300	10	277-1029-ND	1.68	16.37	76.50	MVSTBR 2.5/2-ST	1792016
3	15	300	10	277-1030-ND	2.52	24.50	114.50	MVSTBR 2.5/3-ST	1792029
4	20	300	10	277-1031-ND	3.37	32.74	153.00	MVSTBR 2.5/4-ST	1792032
5	25	300	10	277-1032-ND	4.21	40.98	191.50	MVSTBR 2.5/5-ST	1792045
6	30	300	10	277-1033-ND	5.04	49.01	229.00	MVSTBR 2.5/6-ST	1792058
7	35	300	10	277-1034-ND	5.89	57.25	267.50	MVSTBR 2.5/7-ST	1792061
8	40	300	10	277-1035-ND	6.72	65.38	305.50	MVSTBR 2.5/8-ST	1792074
9	45	300	10	277-1036-ND	7.58	73.72	344.50	MVSTBR 2.5/9-ST	1792087
10	50	300	10	277-1037-ND	8.42	81.86	382.50	MVSTBR 2.5/10-ST	1792090
12	60	300	10	277-1039-ND	10.10	98.23	459.00	MVSTBR 2.5/12-ST	1792113
Fig. 12 — 5.08mm Connector Terminal Block Plugs									
2	10.16	300	10	277-1040-ND	1.68	16.37	76.50	MVSTBR 2.5/2-ST-5.08	1792249
3	15.24	300	10	277-1041-ND	2.52	24.50	114.50	MVSTBR 2.5/3-ST-5.08	1792252
4	20.32	300	10	277-1042-ND	3.37	32.74	153.00	MVSTBR 2.5/4-ST-5.08	1792265
5	25.40	300	10	277-1043-ND	4.21	40.98	191.50	MVSTBR 2.5/5-ST-5.08	1792278
6	30.48	300	10	277-1044-ND	5.04	49.01	229.00	MVSTBR 2.5/6-ST-5.08	1792281
7	35.56	300	10	277-1045-ND	5.89	57.25	267.50	MVSTBR 2.5/7-ST-5.08	1792294
8	40.64	300	10	277-1046-ND	6.72	65.38	305.50	MVSTBR 2.5/8-ST-5.08	1792304
9	45.72	300	10	277-1047-ND	7.58	—	—	MVSTBR 2.5/9-ST-5.08	1792317
10	50.80	300	10	277-1048-ND	8.42	81.86	382.50	MVSTBR 2.5/10-ST-5.08	1792320
11	55.88	300	10	277-1049-ND	5.72	—	—	MVSTBR 2.5/11-ST-5.08	1792333
12	60.96	300	10	277-1050-ND	10.10	98.23	459.00	MVSTBR 2.5/12-ST-5.08	1792346
Fig. 12 — 5.0mm Connector Terminal Block Plugs									
2	10	300	10	277-1051-ND	1.68	16.37	76.50	MVSTBW 2.5/2-ST	1792524
3	15	300	10	277-1052-ND	2.52	24.50	114.50	MVSTBW 2.5/3-ST	1792537
4	20	300	10	277-1053-ND	3.37	32.74	153.00	MVSTBW 2.5/4-ST	1792540
5	25	300	10	277-1054-ND	4.21	40.98	191.50	MVSTBW 2.5/5-ST	1792553
6	30	300	10	277-1055-ND	5.04	49.01	229.00	MVSTBW 2.5/6-ST	1792566
7	35	300	10	277-1056-ND	5.89	57.25	267.50	MVSTBW 2.5/7-ST	1792579
8	40	300	10	277-1057-ND	6.72	65.38	305.50	MVSTBW 2.5/8-ST	1792582
9	45	300	10	277-1058-ND	4.69	—	—	MVSTBW 2.5/9-ST	1792595
10	50	300	10	277-1059-ND	8.42	81.86	382.50	MVSTBW 2.5/10-ST	1792605
12	60	300	10	277-1061-ND	10.10	98.23	459.00	MVSTBW 2.5/12-ST	1792621
Fig. 12 — 5.08mm Connector Terminal Block Plugs									
2	10.16	300	10	277-1062-ND	1.68	16.37	76.50	MVSTBW 2.5/2-ST-5.08	1792757
3	15.24	300	10	277-1063-ND	2.52	24.50	114.50	MVSTBW 2.5/3-ST-5.08	1792760
4	20.32	300	10	277-1064-ND	3.37	32.74	153.00	MVSTBW 2.5/4-ST-5.08	1792773
5	25.40	300	10	277-1065-ND	4.21	40.98	191.50	MVSTBW 2.5/5-ST-5.08	1792786
6	30.48	300	10	277-1066-ND	5.04	49.01	229.00	MVSTBW 2.5/6-ST-5.08	1792799
7	35.56	300	10	277-1067-ND	5.89	57.25	267.50	MVSTBW 2.5/7-ST-5.08	1792809
8	40.64	300	10	277-1068-ND	6.72	65.38	305.50	MVSTBW 2.5/8-ST-5.08	1792812
9	45.72	300	10	277-1069-ND	7.58	73.72	344.50	MVSTBW 2.5/9-ST-5.08	1792825
10	50.80	300	10	277-1070-ND	8.42	81.86	382.50	MVSTBW 2.5/10-ST-5.08	1792838
11	55.88	300	10	277-1071-ND	9.24	89.88	420.00	MVSTBW 2.5/11-ST-5.08	1792841
12	60.96	300	10	277-1072-ND	10.10	98.23	459.00	MVSTBW 2.5/12-ST-5.08	1792854
Fig. 13 — 5.0mm Connector Terminal Block Plugs									
2	10	300	12	277-1881-ND	4.39	42.69	199.50	FRONT-MSTB 2.5/2-ST	1779411
3	15	300	12	277-1930-ND	6.57	63.88	298.50	FRONT-MSTB 2.5/3-ST	1779424
4	20	300	12	277-1882-ND	8.78	85.39	399.00	FRONT-MSTB 2.5/4-ST	1779437
6	30	300	12	277-1931-ND	13.18	128.19	599.00	FRONT-MSTB 2.5/6-ST	1779453
10	50	300	12	277-1932-ND	13.58	—	—	FRONT-MSTB 2.5/10-ST	1779495
12	60	300	12	277-1933-ND	16.29	—	—	FRONT-MSTB 2.5/12-ST	1779518
Fig. 13 — 5.08mm Connector Terminal Block Plugs									
2	10.16	300	12	277-1934-ND	4.39	42.69	199.50	FRONT-MSTB 2.5/2-ST-5.08	1777280
3	15.24	300	12	277-1935-ND	6.57	63.88	298.50	FRONT-MSTB 2.5/3-ST-5.08	1777293
4	20.32	300	12	277-1936-ND	8.78	85.39	399.00	FRONT-MSTB 2.5/4-ST-5.08	1777303
5	25.40	300	12	277-1937-ND	10.96	106.57	498.00	FRONT-MSTB 2.5/5-ST-5.08	1777316
6	30.48	300	12	277-1938-ND	13.18	128.19	599.00	FRONT-MSTB 2.5/6-ST-5.08	1777329
8	40.64	300	12	277-1939-ND	10.87	—	—	FRONT-MSTB 2.5/8-ST-5.08	1777345
9	45.72	300	12	277-1889-ND	12.23	—	—	FRONT-MSTB 2.5/9-ST-5.08	1777358
10	50.80	300	12	277-1940-ND	21.92	213.25	996.50	FRONT-MSTB 2.5/10-ST-5.08	1777361
11	55.88	300	12	277-1890-ND	14.95	—	—	FRONT-MSTB 2.5/11-ST-5.08	1777374
12	60.96	300	12	277-1941-ND	26.30	255.84	1195.50	FRONT-MSTB 2.5/12-ST-5.08	1777387
Fig. 14 — 5.0mm Connector Terminal Block Plugs									
2	10.1	300	10	277-1891-ND	1.56	15.19	71.00	FKC 2.5/2-ST	1910351

No. of Pos.	Dim. A (mm)	UL V	UL A	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Phoenix Contact Type No.	Phoenix Contact Part No.
3	15.1	300	10	277-1892-ND	2.34	22.79	106.50	FKC 2.5/3-ST	1910364
4	20.1	300	10	277-1893-ND	3.14	30.50	142.50	FKC 2.5/4-ST	1910377
5	25.1	300	10	277-1894-ND	3.91	37.99	177.50	FKC 2.5/5-ST	1910380
6	30.1	300	10	277-1895-ND	4.51	43.87	205.00	FKC 2.5/6-ST	1910393
8	40.1	300	10	277-1897-ND	6.25	60.78	284.00	FKC 2.5/8-ST	1910416
10	50.1	300	10	277-1942-ND	7.81	75.97	355.00	FKC 2.5/10-ST	1910432
12	60.1	300	10	277-1900-ND	9.36	91.06	425.50	FKC 2.5/12-ST	1910458
Fig. 14 — 5.08mm Connector Terminal Block Plugs									
2	10.78	300	10	277-1341-ND	1.76	17.12	80.00	FKC 2.5/2-ST-5.08	1873058
3	15.86	300	10	277-1342-ND	2.64	25.68	120.00	FKC 2.5/3-ST-5.08	1873061
4	20.94	300	10	277-1343-ND	3.54	34.45	161.00	FKC 2.5/4-ST-5.08	1873074
6	31.10	300	10	277-1345-ND	5.29	51.47	240.50	FKC 2.5/6-ST-5.08	1873090
8	31.26	300	10	277-1347-ND	7.06	68.69	321.00	FKC 2.5/8-ST-5.08	1873113
9	46.34	300	10	277-1348-ND	7.94	77.25	361.00	FKC 2.5/9-ST-5.08	1873126
12	61.58	300	10	277-1351-ND	10.59	103.04	481.50	FKC 2.5/12-ST-5.08	1873155
Fig. 15 — 5.0mm Connector Headers — Vertical									
2	10	300	10	277-1073-ND	.50	4.82	22.50	MSTBV 2.5/2-G	1753437
3	15	300	10	277-1074-ND	.75	7.28	34.00	MSTBV 2.5/3-G	1753453
4	20	300	10	277-1075-ND	1.01	9.84	46.00	MSTBV 2.5/4-G	1753479
5	25	300	10	277-1076-ND	1.27	12.31	57.50	MSTBV 2.5/5-G	1753495
6	30	300	10	277-1077-ND	1.50	14.55	68.00	MSTBV 2.5/6-G	1753518
8	40	300	10	277-1079-ND	1.99	19.37	90.50	MSTBV 2.5/8-G	1753550
10	50	300	10	277-1081-ND	2.49	24.18	113.00	MSTBV 2.5/10-G	1753592
12	60	300	10	277-1083-ND	3.01	29.32	137.00	MSTBV 2.5/12-G	1753631
Fig. 15 — 5.08mm Connector Headers — Vertical									
2	10.16	300	10	277-1128-ND	.46	4.49	21.00	MSTBV 2.5/2-G-5.08	1758018
3	15.24	300	10	277-1129-ND	.73	7.06	33.00	MSTBV 2.5/3-G-5.08	1758021
4	20.32	300	10	277-1130-ND	.97	9.42	44.00	MSTBV 2.5/4-G-5.08	1758034
5	25.40	300	10	277-1131-ND	1.22	11.88	55.50	MSTBV 2.5/5-G-5.08	1758047
6	30.48	300	10	277-1132-ND	1.42	13.80	64.50	MSTBV 2.5/6-G-5.08	1758050
7	35.56	300	10	277-1133-ND	1.68	16.37	76.50	MSTBV 2.5/7-G-5.08	1758063
8	40.64	300	10	277-1134-ND	1.93	18.73	87.50	MSTBV 2.5/8-G-5.08	1758076
10	50.80	300	10	277-1136-ND	2.39	23.22	108.50	MSTBV 2.5/10-G-5.08	1758092
11	55.88	300	10	277-1137-ND	1.64	—	—	MSTBV 2.5/11-G-5.08	1758102
12	60.96	300	10	277-1138-ND	2.90	28.25	132.00	MSTBV 2.5/12-G-5.08	1758115
Fig. 16 — 5.0mm Connector Headers — Right Angle									
2	10	300	10	277-1084-ND	.50	4.82	22.50	MSTB 2.5/2-G	1754436
3	15	300	10	277-1085-ND	.75	7.28	34.00	MSTB 2.5/3-G	1754452
4	20	300	10	277-1086-ND	1.01	9.84	46.00	MSTB 2.5/4-G	1754478
5	25	300	10	277-1087-ND	1.27	12.31	57.50	MSTB 2.5/5-G	1754494
6	30	300	10	277-1088-ND	1.50	1.46	68.00	MSTB 2.5/6-G	1754517
7	35	300	10	277-1089-ND	1.75	17.01	79.50	MSTB 2.5/7-G	1754533
8	40	300	10	277-1090-ND	1.99	19.37	90.50	MSTB 2.5/8-G	1754559
10	50	300	10	277-1092-ND	2.49	24.18	113.00	MSTB 2.5/10-G	1754591
11	55	300	10	277-1093-ND	1.70	—	—	MSTB 2.5/11-G	1754614
12	60	300	10	277-1094-ND	3.01	29.32	137.00	MSTB 2.5/12-G	1754630
Fig. 16 — 5.08mm Connector Headers — Right Angle									
2	10.16	300	10	277-1095-ND	.46	4.49	21.00	MSTB 2.5/2-G-5.08	1759017
3	15.24	300	10	277-1096-ND	.73	7.06	33.00	MSTB 2.5/3-G-5.08	1759020
4	20.32	300	10	277-1097-ND	.98	9.52	44.50	MSTB 2.5/4-G-5.08	1759033
5	25.40	300	10	277-1098-ND	1.22	11.88	55.50	MSTB 2.5/5-G-5.08	1759046
6	30.48	300	10	277-1099-ND	1.42	13.80	64.50	MSTB 2.5/6-G-5.08	1759059
7	35.56	300	10	277-1100-ND	1.68	16.37	76.50	MSTB 2.5/7-G-5.08	1759062
8	40.64	300	10	277-1101-ND	1.93	18.73	87.50	MSTB 2.5/8-G-5.08	1759075
10	50.80	300	10	277-1103-ND	2.39	23.22	108.50	MSTB 2.5/10-G-5.08	1759091
12	60.96	300	10	277-1105-ND	2.90	28.25	132.00	MSTB 2.5/12-G-5.08	1759114
Fig. 17 — 5.0mm Connector Headers — Right Angle									
2	12	300	10	277-1117-ND	.50	4.82	22.50	MSTBA 2.5/2-G	1757475
3	17	300	10	277-1118-ND	.75	7.28	34.00	MSTBA 2.5/3-G	1757488
4	22	300	10	277-1119-ND	1.00	9.74	45.50	MSTBA 2.5/4-G	1757491
5	27	300	10	277-1120-ND	1.25	12.20	57.00	MSTBA 2.5/5-G	1757501
6	32	300	10	277-1121-ND	1.49	14.45	67.50	MSTBA 2.5/6-G	1757514
7	37	300	10	277-1122-ND	1.75	17.01	79.50	MSTBA 2.5/7-G	1755493
8	42	300	10	277-1123-ND	1.98	19.26	90.00	MSTBA 2.5/8-G	1757527
9	47	300	10	277-1124-ND	1.40	—	—	MSTBA 2.5/9-G	1757530
10	52	300	10	277-1125-ND	2.48	24.08	112.50	MSTBA 2.5/10-G	1757543
12	62	300	10	277-1127-ND	3.01	29.32	137.00	MSTBA 2.5/12-G	1757569
Fig. 17 — 5.08mm Connector Headers — Right Angle									
2	12.16	300	10	277-1106-ND	.46	4.49	21.00	MSTBA 2.5/2-G-5.08	1757242
3	17.24	300	10	277-1107-ND	.73	7.06	33.00	MSTBA 2.5/3-G-5.08	1757255
4	22.32	300	10	277-1108-ND	.97	9.42	44.00	MSTBA 2.5/4-G-5.08	1757268
5	27.40	300	10	277-1109-ND	1.21	11.77	55.00	MSTBA 2.5/5-G-5.08	1757271
6	32.48	300	10	277-1110-ND	1.41	13.70	64.00	MSTBA 2.5/6-G-5.08	1757284
7	37.56	300	10	277-1111-ND	1.68	16.37	76.50	MSTBA 2.5/7-G-5.08	1757297
8	42.64	300	10	277-1112-ND	1.91	18.62	87.00	MSTBA 2.5/8-G-5.08	1757307
9	47.72	300	10	277-1113-ND	2.17	21.08	98.50	MSTBA 2.5/9-G-5.08	1757310
10	52.80	300	10	277-1114-ND	2.38	23.11	108.00	MSTBA 2.5/10-G-5.08	1757323
12	62.96	300	10	277-1116-ND	2.87	27.93	130.50	MSTBA 2.5/12-G-5.08	1757349
Fig. 18 — 5.0mm Connector Headers — Vertical									
2	12	300	10	277-1140-ND	.50	4.82	22.50	MSTBVA 2.5/2-G	1755516
3	17	300	10	277-1141-ND	.75	7.28	34.00	MSTBVA 2.5/3-G	1755529
4	22	300	10	277-1142-ND	1.00	9.74	45.50	MSTBVA 2.5/4-G	1755532
5	27	300	10	277-1143-ND	1.27	12.31	57.50	MSTBVA 2.5/5-G	1755545
6	32	300	10	277-1144-ND	1.49	14.45	67.50	MSTBVA 2.5/6-G	1755558
7	37	300	10	277-1145-ND	1.75	17.01	79.50	MSTBVA 2.5/7-G	1755561
8	42	300	10	277-1146-ND	1.98	19.26	90.00	MSTBVA 2.5/8-G	1755574
9	47	300	10	277-1147-ND	2.26	21.94	102.50	MSTBVA 2.5/9-G	1755587
10	52	300	10	277-1139-ND	2.49	24.18	113.00	MSTBVA 2.5/10-G	1755503
12	62	300	10	277-1149-ND	3.01	29.32	137.00	MSTBVA 2.5/12-G	1755600
Fig. 18 — 5.08mm Connector Headers — Vertical									
2	12.16	300	10	277-1150-ND	.46	4.49	21.00	MSTBVA 2.5/2-G-5.08	1755736
3	17.24	300	10	277-1151-ND	.73	7.06	33.00	MSTBVA 2.5/3-G-5.08	1755749
4	22.32	300	10	277-1152-ND	.97	9.42	44.00	MSTBVA 2.5/4-G-5.08	1755752
5	27.40	300	10	277-1153-ND	1.21	11.77	55.00	MSTBVA 2.5/5-G-5.08	1755765
6	32.48	300	10	277-1154-ND	1.41	13.70	64.00	MSTBVA 2.5/6-G-5.08	1755778
7	37.56	300	10	277-1155-ND	1.67	16.26	76.00	MSTBVA 2.5/7-G-5.08	1755781
8	42.64	300	10	277-1156-ND	1.91	18.62	87.00	MSTBVA 2.5/8-G-5.08	1755794
9	47.72	300	10	277-1157-ND	2.17	21.08	98.50	MSTBVA 2.5/9-G-5.08	1755804
10	52.80	300	10	277-1158-ND	2.38	23.11	108.00	MSTBVA 2.5/10-G-5.08	1755817
11	57.88	300	10	277-1159-ND	2.65	25.79	120.50	MSTBVA 2.5/11-G-5.08	1755820
12	62.96	300	10	277-1160-ND	2.87	27.93	130.50	MSTBVA 2.5/12-G-5.08	1755833
Fig. 19 — 5.0mm and 5.08mm Double Level PCB Headers without Side Panels									
2	10	300	12	277-1901-ND§	1.13	—	—	MDSTBV 2.5/2-G	1763032

§ Number of positions per level

(Continued)

Terminal Blocks — PCB Plugs and Headers *(Cont.)*

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
2	10.16	300	12	277-1944-ND§	1.83	17.76	83.00	MDSTBV 2.5/2-G-5.08	1763074
3	15.24	300	12	277-1945-ND§	2.60	25.25	118.00	MDSTBV 2.5/3-G-5.08	1763087
Fig. 20 — 5.0mm and 5.08mm Double Level PCB Headers without Side Panels									
2	10	300	10	277-1379-ND§	1.83	17.76	83.00	MDSTB 2.5/2-G	1762046
3	15	300	10	277-1380-ND§	2.62	25.47	119.00	MDSTB 2.5/3-G	1762059
2	10.16	300	10	277-1381-ND§	1.80	17.55	82.00	MDSTB 2.5/2-G-5.08	1762062
3	15.24	300	10	277-1382-ND§	2.62	25.47	119.00	MDSTB 2.5/3-G-5.08	1762075
Fig. 21 — 7.62mm Connector Terminal Block Plugs									
2	15.22	600	30	277-1463-ND	3.94	38.31	179.00	PC 4 HV/2-ST-7.62	1848892
3	22.84	600	30	277-1464-ND	5.94	57.78	270.00	PC 4 HV/3-ST-7.62	1848902
4	30.46	600	30	277-1465-ND	7.90	76.83	359.00	PC 4 HV/4-ST-7.62	1848915
Fig. 22 — 7.62mm Connector Terminal Block Plugs									
2	15.24	600	30	277-1868-ND	2.99	29.10	136.00	PC 5/2-ST-7.62	1975587
3	22.86	600	30	277-1869-ND	4.48	43.55	203.50	PC 5/3-ST-7.62	1975590
4	30.48	600	30	277-1870-ND	5.96	57.99	271.00	PC 5/4-ST-7.62	1975600
5	38.10	600	30	277-1871-ND	7.26	70.62	330.00	PC 5/5-ST-7.62	1975613
6	45.72	600	30	277-1872-ND	8.97	87.21	407.50	PC 5/6-ST-7.62	1975626
8	60.96	600	30	277-1874-ND	7.19	—	—	PC 5/8-ST-7.62	1975642
Fig. 23 — 7.62mm Connector Headers — Right Angle									
2	15.22	600	30	277-1466-ND	2.56	24.93	116.50	PC 4/2-G-7.62	1804797
3	22.84	600	30	277-1467-ND	3.84	37.34	174.50	PC 4/3-G-7.62	1804807
4	30.46	600	30	277-1468-ND	5.05	49.11	229.50	PC 4/4-G-7.62	1804810
Fig. 24 — 7.62mm Connector Headers — Vertical									
2	15.22	600	30	277-1469-ND	2.56	24.93	116.50	PCV 4/2-G-7.62	1804687
3	22.84	600	30	277-1470-ND	3.84	37.34	174.50	PCV 4/3-G-7.62	1804690
4	30.46	600	30	277-1471-ND	5.05	49.11	229.50	PCV 4/4-G-7.62	1804700
Fig. 25 — 10.16mm Connector Terminal Block Plugs									
2	19.36	600	50	277-1829-ND	6.68	64.95	303.50	PC 6/2-ST-10.16	1913507
3	29.52	600	50	277-1830-ND	10.01	97.37	455.00	PC 6/3-ST-10.16	1913510
4	39.68	600	50	277-1831-ND	13.35	129.90	607.00	PC 6/4-ST-10.16	1913523
7	70.16	600	50	277-1834-ND	14.48	—	—	PC 6/7-ST-10.16	1913552
8	80.32	600	50	277-1835-ND	16.54	—	—	PC 6/8-ST-10.16	1913565

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
Fig. 26 — 10.16mm Connector Terminal Block Plugs									
2	20.16	600	55	277-1836-ND	7.04	68.48	320.00	PC 16/2-ST-10.16	1967375
3	30.32	600	55	277-1837-ND	10.55	102.61	479.50	PC 16/3-ST-10.16	1967388
4	40.48	600	55	277-1838-ND	14.07	136.85	639.50	PC 16/4-ST-10.16	1967391
5	50.64	600	55	277-1839-ND	10.89	—	—	PC 16/5-ST-10.16	1967401
6	60.80	600	55	277-1840-ND	13.07	—	—	PC 16/6-ST-10.16	1967414
7	70.96	600	55	277-1841-ND	15.25	—	—	PC 16/7-ST-10.16	1967427
8	81.12	600	55	277-1842-ND	17.42	—	—	PC 16/8-ST-10.16	1967430
Fig. 27 — 10.16mm Terminal Block Headers — Right Angle									
2	23.36	300	55	277-1844-ND	4.22	41.09	192.00	PC 6-16/2-G1-10.16	1998933
3	33.52	300	55	277-1845-ND	6.35	61.74	288.50	PC 6-16/3-G1-10.16	1998946
4	43.68	300	55	277-1846-ND	8.47	82.39	385.00	PC 6-16/4-G1-10.16	1998959
5	53.84	300	55	277-1847-ND	10.57	102.83	480.50	PC 6-16/5-G1-10.16	1998962
6	64	300	55	277-1848-ND	12.72	123.69	578.00	PC 6-16/6-G1-10.16	1998975
7	74.16	300	55	277-1849-ND	9.18	—	—	PC 6-16/7-G1-10.16	1998988
8	84.32	300	55	277-1850-ND	10.48	—	—	PC 6-16/8-G1-10.16	1998991
9	94.48	300	55	277-1851-ND	11.81	—	—	PC 6-16/9-G1-10.16	1996391
Fig. 28 — 10.6mm Terminal Block Headers — Vertical									
2	23.36	300	55	277-1852-ND	4.22	41.09	192.00	PCV 6-16/2-G1-10.16	1998784
3	33.52	300	55	277-1853-ND	6.35	61.74	288.50	PCV 6-16/3-G1-10.16	1998797
4	43.68	300	55	277-1854-ND	8.47	82.39	385.00	PCV 6-16/4-G1-10.16	1998807
5	53.84	300	55	277-1855-ND	6.57	—	—	PCV 6-16/5-G1-10.16	1998810
6	64	300	55	277-1856-ND	7.88	—	—	PCV 6-16/6-G1-10.16	1998823
7	74.16	300	55	277-1857-ND	9.17	—	—	PCV 6-16/7-G1-10.16	1998836
8	84.32	300	55	277-1858-ND	10.48	—	—	PCV 6-16/8-G1-10.16	1998849
9	94.48	300	55	277-1859-ND	11.79	—	—	PCV 6-16/9-G1-10.16	1998852

§ Number of positions per level

PCB Terminal Blocks

Fig. 1

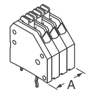

Fig. 2

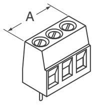

Fig. 3

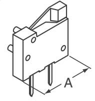

Fig. 4

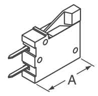

Fig. 5

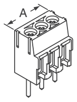

Fig. 6

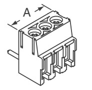

Fig. 7

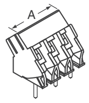

Fig. 8

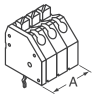

Fig. 9

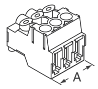

Fig. 10

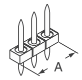

Fig. 11

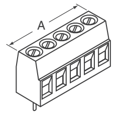

Fig. 12

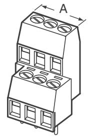

Fig. 13

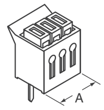

Fig. 14

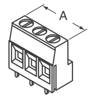

Fig. 15

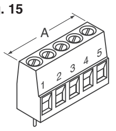

(Numbered Version Shown)

Fig. 16

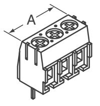

Fig. 17

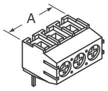

Fig. 18

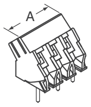

Fig. 19

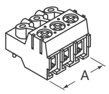

Fig. 20

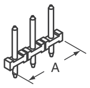

Fig. 21

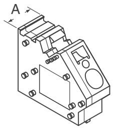

Fig. 22

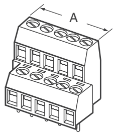

Fig. 23

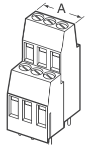

Fig. 24

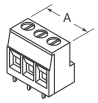

Fig. 25

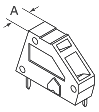

Fig. 26

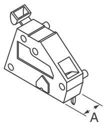

Fig. 27

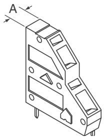

Fig. 28

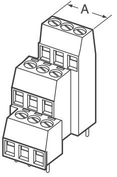

Fig. 29

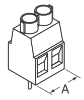

Fig. 30

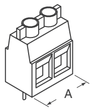

Fig. 31

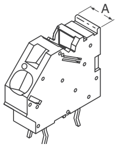

Fig. 32

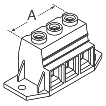

Fig. 33

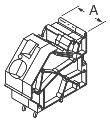

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
Fig. 1 — 2.5mm Compact with Spring-Cage Connection									
2	5	300	2	277-1794-ND	.22	2.07	9.90	PTSA 0.5/2-2.5-Z	1990009
3	7.5	300	2	277-1795-ND	.31	2.99	14.30	PTSA 0.5/3-2.5-Z	1990012
4	10	300	2	277-1796-ND	.42	4.03	19.25	PTSA 0.5/4-2.5-Z	1990025
5	12.5	300	2	277-1797-ND	.48	4.62	22.47	PTSA 0.5/5-2.5-Z	1990038
6	15	300	2	277-1798-ND	.59	5.61	27.29	PTSA 0.5/6-2.5-Z	1990041
7	17.5	300	2	277-1799-ND	.69	6.60	32.10	PTSA 0.5/7-2.5-Z	1990054
8	20	300	2	277-1800-ND	.77	7.37	35.85	PTSA 0.5/8-2.5-Z	1990067
9	22.5	300	2	277-1801-ND	.90	8.58	41.73	PTSA 0.5/9-2.5-Z	1990070
10	25	300	2	277-1802-ND	.98	9.35	45.48	PTSA 0.5/10-2.5-Z	1990083
11	27.5	300	2	277-1803-ND	.78	—	—	PTSA 0.5/11-2.5-Z	1990096
Fig. 2 — 2.54mm Micro with Screw Connection									
2	5.54	125	6	277-1273-ND	1.10	10.70	50.00	MPT 0.5/2-2.54	1725656
3	8.08	125	6	277-1274-ND	1.67	16.26	76.00	MPT 0.5/3-2.54	1725669
4	10.62	125	6	277-1275-ND	2.23	21.72	101.50	MPT 0.5/4-2.54	1725672

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
5	13.16	125	6	277-1276-ND	2.78	27.07	126.50	MPT 0.5/5-2.54	1725685
6	15.70	125	6	277-1277-ND	3.33	32.42	151.50	MPT 0.5/6-2.54	1725698
7	18.24	125	6	277-1278-ND	3.89	37.88	177.00	MPT 0.5/7-2.54	1725708
8	20.78	125	6	277-1279-ND	4.44	43.23	202.00	MPT 0.5/8-2.54	1725711
9	23.32	125	6	277-1280-ND	5.02	48.79	228.00	MPT 0.5/9-2.54	1725724
10	25.86	125	6	277-1281-ND	5.56	54.04	252.50	MPT 0.5/10-2.54	1725737
11	28.40	125	6	277-1282-ND	6.13	59.60	278.50	MPT 0.5/11-2.54	1725740
12	30.94	125	6	277-1283-ND	6.68	64.95	303.50	MPT 0.5/12-2.54	1725753
Fig. 3 — 2.54mm with Spring-Cage Connection									
1	2.54	150	6	277-1310-ND†	—	8.52	39.06	FFKDS/H-2.54	1791826
5.08mm End Block for FFKDS/H-2.54				277-1311-ND	1.24	12.09	56.50	FFKDSA1/H-5.08	1791868
Fig. 4 — 2.54mm with Spring-Cage Connection									
1	2.54	150	6	277-1312-ND†	—	8.52	39.06	FFKDS/V-2.54	1791813

† Parts come in 10 piece stick (can be separated)   § Number of positions per level

(Continued)

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
5.08mm End Block for FFKDS/V-2.54				277-1313-ND	1.20	11.66	54.50	FFKDSA1/V-5.08	1791855
Fig. 5 — 3.5mm Compact with Screw Connection									
2	7	300	10	277-1721-ND	.32	3.11	14.85	PT 1.5/2-3.5-H	1984617
3	10.5	300	10	277-1722-ND	.49	4.72	22.55	PT 1.5/3-3.5-H	1984620
4	14	300	10	277-1860-ND	.65	6.21	29.70	PT 1.5/4-3.5-H	1984633
5	17.5	300	10	277-1723-ND	.77	7.37	35.85	PT 1.5/5-3.5-H	1984646
6	21	300	10	277-1724-ND	.93	8.91	43.34	PT 1.5/6-3.5-H	1984659
7	24.5	300	10	277-1861-ND	1.09	10.45	50.83	PT 1.5/7-3.5-H	1984662
8	28	300	10	277-1725-ND	1.24	11.88	57.78	PT 1.5/8-3.5-H	1984675
9	31.5	300	10	277-1726-ND	1.41	13.53	65.81	PT 1.5/9-3.5-H	1984688
10	35	300	10	277-1727-ND	1.55	14.85	72.23	PT 1.5/10-3.5-H	1984691
14	49	300	10	277-1731-ND	2.10	20.44	95.50	PT 1.5/14-3.5-H	1984730
15	52.5	300	10	277-1732-ND	2.23	21.72	101.50	PT 1.5/15-3.5-H	1984743
16	56	300	10	277-1733-ND	2.39	23.22	108.50	PT 1.5/16-3.5-H	1984756
Fig. 6 — 3.5mm Compact with Screw Connection									
2	7	300	10	277-1734-ND	.35	3.34	15.95	PT 1.5/2-3.5-V	1984769
3	10.5	300	10	277-1735-ND	.54	5.18	24.75	PT 1.5/3-3.5-V	1984772
4	14	300	10	277-1736-ND	.72	6.90	33.00	PT 1.5/4-3.5-V	1984785
5	17.5	300	10	277-1737-ND	.86	8.25	40.13	PT 1.5/5-3.5-V	1984798
6	21	300	10	277-1738-ND	1.04	9.90	48.15	PT 1.5/6-3.5-V	1984808
7	24.5	300	10	277-1739-ND	.89	—	—	PT 1.5/7-3.5-V	1984811
8	28	300	10	277-1740-ND	1.38	13.20	64.20	PT 1.5/8-3.5-V	1984824
9	31.5	300	10	277-1741-ND	1.54	14.74	71.69	PT 1.5/9-3.5-V	1984837
10	35	300	10	277-1742-ND	1.71	16.39	79.72	PT 1.5/10-3.5-V	1984840
11	38.5	300	10	277-1743-ND	1.41	—	—	PT 1.5/11-3.5-V	1984853
12	42	300	10	277-1744-ND	1.97	19.15	89.50	PT 1.5/12-3.5-V	1984866
13	45.5	300	10	277-1745-ND	1.66	—	—	PT 1.5/13-3.5-V	1984879
14	49	300	10	277-1746-ND	2.29	22.26	104.00	PT 1.5/14-3.5-V	1984882
15	52.5	300	10	277-1747-ND	1.91	—	—	PT 1.5/15-3.5-V	1984895
Fig. 7 — 3.5mm with Screw Connection — 45°									
2	7	300	10	277-1779-ND	.32	3.11	14.85	PTA 1.5/2-3.5	1988956
3	10.5	300	10	277-1780-ND	.49	4.72	22.55	PTA 1.5/3-3.5	1988969
4	14	300	10	277-1781-ND	.65	6.21	29.70	PTA 1.5/4-3.5	1988972
5	17.5	300	10	277-1782-ND	.77	7.37	35.85	PTA 1.5/5-3.5	1988985
6	21	300	10	277-1783-ND	.93	8.91	43.34	PTA 1.5/6-3.5	1988998
7	24.5	300	10	277-1784-ND	1.09	10.45	50.83	PTA 1.5/7-3.5	1989007
8	28	300	10	277-1785-ND	1.24	11.88	57.78	PTA 1.5/8-3.5	1989010
9	31.5	300	10	277-1786-ND	1.41	13.53	65.81	PTA 1.5/9-3.5	1989023
10	35	300	10	277-1787-ND	1.15	—	—	PTA 1.5/10-3.5	1989036
11	38.5	300	10	277-1788-ND	1.26	—	—	PTA 1.5/11-3.5	1989049
13	45.5	300	10	277-1790-ND	1.49	—	—	PTA 1.5/13-3.5	1989065
Fig. 8 — 3.5mm Compact with Spring-Cage Connection — 45°									
2	7	300	2	277-1622-ND	.22	2.07	9.90	PTSA 1.5/2-3.5-Z	1985195
3	10.5	300	2	277-1623-ND	.30	2.88	13.75	PTSA 1.5/3-3.5-Z	1985205
4	14	300	2	277-1624-ND	.42	4.03	19.25	PTSA 1.5/4-3.5-Z	1985218
5	17.5	300	2	277-1625-ND	.48	4.62	22.47	PTSA 1.5/5-3.5-Z	1985221
6	21	300	2	277-1626-ND	.59	5.61	27.29	PTSA 1.5/6-3.5-Z	1985234
7	24.5	300	2	277-1627-ND	.69	6.60	32.10	PTSA 1.5/7-3.5-Z	1985247
8	28	300	2	277-1628-ND	.77	7.37	35.85	PTSA 1.5/8-3.5-Z	1985250
9	31.5	300	2	277-1629-ND	.90	8.58	41.73	PTSA 1.5/9-3.5-Z	1985263
10	35	300	2	277-1630-ND	.98	9.35	45.48	PTSA 1.5/10-3.5-Z	1985276
12	42	300	2	277-1632-ND	1.12	10.91	51.00	PTSA 1.5/12-3.5-Z	1985292
19	66.5	300	2	277-1639-ND	1.38	—	—	PTSA 1.5/19-3.5-Z	1985360
21	73.5	300	2	277-1641-ND	1.52	—	—	PTSA 1.5/21-3.5-Z	1985386
22	77	300	2	277-1642-ND	1.61	—	—	PTSA 1.5/22-3.5-Z	1985399
23	80.5	300	2	277-1643-ND	1.67	—	—	PTSA 1.5/23-3.5-Z	1985409
Fig. 9 — 3.5mm Compact Plugs with Screw Connection									
2	7	300	10	277-1706-ND	.31	2.99	14.30	PT 1.5/2-PVH-3.5	1984015
3	10.5	300	10	277-1707-ND	.47	4.49	21.45	PT 1.5/3-PVH-3.5	1984028
4	14	300	10	277-1708-ND	.64	6.10	29.15	PT 1.5/4-PVH-3.5	1984031
6	21	300	10	277-1710-ND	.93	8.91	43.34	PT 1.5/6-PVH-3.5	1984057
8	28	300	10	277-1712-ND	1.23	11.77	57.25	PT 1.5/8-PVH-3.5	1984073
9	31.5	300	10	277-1713-ND	1.38	13.20	64.20	PT 1.5/9-PVH-3.5	1984086
10	35	300	10	277-1714-ND	1.53	14.63	71.16	PT 1.5/10-PVH-3.5	1984099
11	38.5	300	10	277-1715-ND	1.61	15.62	73.00	PT 1.5/11-PVH-3.5	1984109
12	42	300	10	277-1716-ND	1.76	17.12	80.00	PT 1.5/12-PVH-3.5	1984112
13	45.5	300	10	277-1717-ND	1.46	—	—	PT 1.5/13-PVH-3.5	1984125
16	56	300	10	277-1720-ND	2.33	22.68	106.00	PT 1.5/16-PVH-3.5	1984154
Fig. 10 — 3.5mm Pin Strip									
2	7	300	10	277-1749-ND	.09	.86	4.00	PST 1.0/2-3.5	1945096
3	10.5	300	10	277-1750-ND	.17	1.61	7.50	PST 1.0/3-3.5	1945106
4	14	300	10	277-1751-ND	.23	2.25	10.50	PST 1.0/4-3.5	1945119
6	21	300	10	277-1753-ND	.32	3.10	14.50	PST 1.0/6-3.5	1945135
7	24.5	300	10	277-1754-ND	.31	—	—	PST 1.0/7-3.5	1945148
8	28	300	10	277-1755-ND	.44	4.28	20.00	PST 1.0/8-3.5	1945151
9	31.5	300	10	277-1756-ND	.48	4.71	22.00	PST 1.0/9-3.5	1945164
10	35	300	10	277-1757-ND	.54	5.24	24.50	PST 1.0/10-3.5	1945177
11	38.5	300	10	277-1758-ND	.63	6.10	28.50	PST 1.0/11-3.5	1945180
12	42	300	10	277-1759-ND	.67	6.53	30.50	PST 1.0/12-3.5	1945193
13	45.5	300	10	277-1760-ND	.55	—	—	PST 1.0/13-3.5	1945203
15	52.5	300	10	277-1762-ND	.64	—	—	PST 1.0/15-3.5	1945229
16	56	300	10	277-1763-ND	.88	8.56	40.00	PST 1.0/16-3.5	1945232
Fig. 11 — 3.81mm Mini with Screw Connection									
2	7.61	300	10	277-1947-ND	.89	8.67	40.50	MKDS 1/2-3.81	1727010
3	11.42	300	10	277-1948-ND	1.34	13.05	61.00	MKDS 1/3-3.81	1727023
4	15.23	300	10	277-1949-ND	1.78	17.33	81.00	MKDS 1/4-3.81	1727036
5	19.04	300	10	277-1950-ND	2.23	21.72	101.50	MKDS 1/5-3.81	1727049
6	22.85	300	10	277-1951-ND	2.68	26.11	122.00	MKDS 1/6-3.81	1727052
7	26.66	300	10	277-1952-ND	3.12	30.39	142.00	MKDS 1/7-3.81	1727065
8	30.47	300	10	277-1953-ND	3.59	34.88	163.00	MKDS 1/8-3.81	1727078
9	34.28	300	10	277-1954-ND	4.02	39.06	182.50	MKDS 1/9-3.81	1727081
10	38.09	300	10	277-1955-ND	4.47	43.44	203.00	MKDS 1/10-3.81	1727094
12	45.71	300	10	277-1956-ND	5.36	52.11	243.50	MKDS 1/12-3.81	1727117

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
Fig. 12 — 3.81mm Mini with Screw Connection – Double-Level									
2	7.61	300	10	277-1356-ND§	2.84	2.77	2.58	MKKDS 1/2-3.81	1708026
3	11.42	300	10	277-1357-ND§	4.24	4.12	3.85	MKKDS 1/3-3.81	1708039
4	15.23	300	10	277-1358-ND§	5.68	5.53	5.16	MKKDS 1/4-3.81	1708042
5	19.04	300	10	277-1359-ND§	7.06	6.87	6.42	MKKDS 1/5-3.81	1708055
6	22.85	300	10	277-1360-ND§	8.49	8.26	7.72	MKKDS 1/6-3.81	1708068
8	30.47	300	10	277-1362-ND§	11.33	11.03	10.30	MKKDS 1/8-3.81	1708084
9	34.28	300	10	277-1363-ND§	12.75	12.41	11.59	MKKDS 1/9-3.81	1708107
10	38.09	300	10	277-1364-ND§	14.17	13.79	12.88	MKKDS 1/10-3.81	1708110
11	41.90	300	10	277-1365-ND§	15.59	15.17	14.17	MKKDS 1/11-3.81	1708123
12	45.71	300	10	277-1366-ND§	17.00	16.54	15.45	MKKDS 1/12-3.81	1708136
Fig. 13 — 3.81mm with Insulation Displacement Connection									
2	8.81	300	5	277-1417-ND	.94	9.10	42.50	IDC 0.3/2-3.81	1706170
3	12.62	300	5	277-1418-ND	1.40	13.59	63.50	IDC 0.3/3-3.81	1706183
4	16.43	300	5	277-1419-ND	1.86	18.08	84.50	IDC 0.3/4-3.81	1706196
5	20.24	300	5	277-1420-ND	2.32	22.58	105.50	IDC 0.3/5-3.81	1706206
6	24.05	300	5	277-1421-ND	1.73	—	—	IDC 0.3/6-3.81	1706219
8	31.67	300	5	277-1423-ND	3.71	36.06	168.50	IDC 0.3/8-3.81	1706235
10	39.29	300	5	277-1425-ND	4.64	45.15	211.00	IDC 0.3/10-3.81	1706251
11	43.10	300	5	277-1426-ND	3.16	—	—	IDC 0.3/11-3.81	1706264
12	46.91	300	5	277-1427-ND	3.45	—	—	IDC 0.3/12-3.81	1706277
Fig. 14 — 5.0mm with Screw Connection									
2	10	300	15	277-1022-ND	1.43	13.91	65.00	MKDS 3/2	1711026
3	15	300	15	277-1023-ND	2.16	20.97	98.00	MKDS 3/3	1711039
4	20	300	15	277-1024-ND	2.87	27.93	130.50	MKDS 3/4	1711042
8	40	300	15	277-1025-ND	5.74	55.85	261.00	MKDS 3/8	1711084
12	60	300	15	277-1026-ND	8.61	83.78	391.50	MKDS 3/12	1711123
Fig. 14 — 5.08mm with Screw Connection									
2	10.16	300	15	277-1027-ND	1.43	13.91	65.00	MKDS 3/2-5.08	1711725
3	15.24	300	15	277-1028-ND	2.16	20.97	98.00	MKDS 3/3-5.08	1711738
Fig. 15 — 5.0mm with Screw Connection									
2	10	300	10	277-1236-ND	.76	7.38	34.50	MKDSN 1.5/2	1729018
3	15	300	10	277-1237-ND	1.13	11.02	51.50	MKDSN 1.5/3	1729021
4	20	300	10	277-1238-ND	1.52	14.77	69.00	MKDSN 1.5/4	1729034
5	25	300	10	277-1239-ND	1.90	18.51	86.50	MKDSN 1.5/5	1729047
6	30	300	10	277-1240-ND	2.28	22.15	103.50	MKDSN 1.5/6	1729050
7	35	300	10	277-1241-ND	2.65	25.79	120.50	MKDSN 1.5/7	1729063
8	40	300	10	277-1242-ND	3.03	29.43	137.50	MKDSN 1.5/8	1729076
9	45	300	10	277-1243-ND	3.41	33.17	155.00	MKDSN 1.5/9	1729089
10	50	300	10	277-1244-ND	3.78	36.81	172.00	MKDSN 1.5/10	1729092
11	55	300	10	277-1245-ND	4.19	40.77	190.50	MKDSN 1.5/11	1729102
12	60	300	10	277-1246-ND	4.55	44.30	207.00	MKDSN 1.5/12	1729115
Fig. 15 — 5.0mm Connector Terminal Blocks — Numbered Version									
2	10	300	10	277-1979-ND	.94	9.10	42.50	MKDSN 2.5/2 BD:1-2	1734656
3	15	300	10	277-1980-ND	1.41	13.70	64.00	MKDSN 2.5/3 BD:1-3	1734669
4	20	300	10	277-1981-ND	1.86	18.08	84.50	MKDSN 2.5/4 BD:1-4	1933341
5	25	300	10	277-1982-ND	2.64	25.68	120.00	MKDSN 2.5/5 BD:1-5	1710515
Fig. 15 — 5.08mm with Screw Connection									
2	10.16	300	10	277-1247-ND	.76	7.38	34.50	MKDSN 1.5/2-5.08	1729128
3	15.24	300	10	277-1248-ND	1.13	11.02	51.50	MKDSN 1.5/3-5.08	1729131
4	20.32	300	10	277-1249-ND	1.52	14.77	69.00	MKDS 1.5/4-5.08	1729144
5	25.40	300	10	277-1250-ND	1.90	18.51	86.50	MKDSN 1.5/5-5.08	1729157
6	30.48	300	10	277-1251-ND	2.28	22.15	103.50	MKDSN 1.5/6-5.08	1729160
7	35.56	300	10	277-1252-ND	2.65	25.79	120.50	MKDSN 1.5/7-5.08	1729173
8	40.64	300	10	277-1253-ND	3.03	29.43	137.50	MKDSN 1.5/8-5.08	1729186
9	45.72	300	10	277-1254-ND	3.41	33.17	155.00	MKDSN 1.5/9-5.08	1729199
10	50.80	300	10	277-1255-ND	3.78	36.81	172.00	MKDSN 1.5/10-5.08	1729209
11	55.88	300	10	277-1256-ND	4.19	40.77	190.50	MKDSN 1.5/11-5.08	1729212
12	60.96	300	10	277-1257-ND	4.55	44.30	207.00	MKDSN 1.5/12-5.08	1729225
Fig. 15 — 5.08mm Connector Terminal Blocks — Numbered Version									
2	10.16	300	10	277-1983-ND	.94	9.10	42.50	MKDSN 2.5/2-5.08 BD:1-2	1904383
3	15.24	300	10	277-1984-ND	1.41	13.70	64.00	MKDSN 2.5/3-5.08 BD:1-3	1907238
5	25.40	300	10	277-1985-ND	2.64	25.68	120.00	MKDSN 2.5/5-5.08 BD:1-5	1995046
Fig. 15 — 5.0mm with Screw Connection									
2	10	300	15	277-1258-ND	.91	8.88	41.50	MKDS 1.5/2	1715022
3	15	300	15	277-1259-ND	1.36	13.27	62.00	MKDS 1.5/3	1715035
4	20	300	15	277-1260-ND	1.80	17.55	82.00	MKDS 1.5/4	1715048
8	40	300	15	277-1261-ND	3.63	35.31	165.00	MKDS 1.5/8	1715080
12	60	300	15	277-1262-ND	5.43	52.86	247.00	MKDS 1.5/12	1715129
Fig. 15 — 5.0mm Connector Terminal Blocks — Numbered Version									
2	10	300	10	277-1971-ND	1.05	10.17	47.50	MKDS 1.5/2 BD:1-2	1871526
3	15	300	10	277-1972-ND	1.56	15.19	71.00	MKDS 1.5/3 BD:1-3	1889851
4	20	300	10	277-1973-ND	2.07	20.12	94.00	MKDS 1.5/4 BD:1-4	1928194
5	25	300	10	277-1974-ND	2.43	23.65	110.50	MKDS 1.5/5 BD:1-5	1718003
Fig. 15 — 5.08mm with Screw Connection									
2	10.16	300	15	277-1263-ND	.91	8.88	41.50	MKDS 1.5/2-5.08	1715721
3	15.24	300	15	277-1264-ND	1.36	13.27	62.00	MKDS 1.5/3-5.08	1715734
4	20.32	300	15	277-1265-ND	1.80	17.55	82.00	MKDS 1.5/4-5.08	1715747
8	40.64	300	15	277-1266-ND	3.63	35.31	165.00	MKDS 1.5/8-5.08	1715789
10	50.80	300	15	277-1267-ND	4.53	44.08	206.00	MKDS 1.5/10-5.08	1715802
12	60.96	300	15	277-1268-ND	5.43	52.86	247.00	MKDS 1.5/12-5.08	1715828
Fig. 15 — 5.08mm Connector Terminal Blocks — Numbered Version									
2	10.16	300	10	277-1975-ND	1.05	10.17	47.50	MKDS 1.5/2-5.08 BD:1-2	1872392
3	15.24	300	10	277-1976-ND	1.56	15.19	71.00	MKDS 1.5/3-5.08 BD:1-3	1715857
4	20.32	300	10	277-1977-ND	2.07	20.12	94.00	MKDS 1.5/4-5.08 BD:1-4	1715860
5	25.40	300	10	277-1978-ND	2.52	24.50	114.50	MKDS 1.5/5-5.08 BD:1-5	1907089
Fig. 16 — 5.0mm Compact with Screw Connection									
2	10	300	15	277-1667-ND	.29	2.76	13.20	PT 1.5/2-5.0-H	1935161
3	15	300	15	277-1578-ND	.43	4.14	19.80	PT 1.5/3-5.0-H	1935174
4	20	300	15	277-1579-ND	.58	5.52	26.40	PT 1.5/4-5.0-H	1935187
5	25	300	15	277-1580-ND	.70	6.71	32.64	PT 1.5/5-5.0-H	1935190
6	30	300	15	277-1581-ND	.83	7.92	38.52	PT 1.5/6-5.0-H	1935200

† Parts come in 10 piece stick (can be separated)   § Number of positions per level

(Continued)

PCB Terminal Blocks *(Cont.)*

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
8	40	300	15	277-1583-ND	1.12	10.67	51.90	PT 1.5/8-5.0-H	1935226
9	45	300	15	277-1584-ND	1.24	11.88	57.78	PT 1.5/9-5.0-H	1935239
10	50	300	15	277-1585-ND	1.40	13.42	65.27	PT 1.5/10-5.0-H	1935242
12	60	300	15	277-1587-ND	1.60	15.52	72.50	PT 1.5/12-5.0-H	1935268
Fig. 17 — 5.0mm Compact with Screw Connection									
2	10	300	15	277-1592-ND	.32	3.11	14.85	PT 1.5/2-5.0-V	1935310
3	15	300	15	277-1593-ND	.49	4.72	22.55	PT 1.5/3-5.0-V	1935323
4	20	300	15	277-1594-ND	.65	6.21	29.70	PT 1.5/4-5.0-V	1935336
6	30	300	15	277-1596-ND	.93	8.91	43.34	PT 1.5/6-5.0-V	1935352
7	35	300	15	277-1597-ND	1.09	10.45	50.83	PT 1.5/7-5.0-V	1935365
8	40	300	15	277-1598-ND	1.24	11.88	57.78	PT 1.5/8-5.0-V	1935378
13	65	300	15	277-1603-ND	1.49	—	—	PT 1.5/13-5.0-V	1935420
15	75	300	15	277-1605-ND	1.73	—	—	PT 1.5/15-5.0-V	1935446
16	80	300	15	277-1606-ND	1.84	—	—	PT 1.5/16-5.0-V	1935459
Fig. 18 — 5.0mm Compact with Screw Connection – 45°									
2	10	300	15	277-1764-ND	.29	2.76	13.20	PTA 1.5/2-5.0	1988804
3	15	300	15	277-1765-ND	.43	4.14	19.80	PTA 1.5/3-5.0	1988817
4	20	300	15	277-1766-ND	.58	5.52	26.40	PTA 1.5/4-5.0	1988820
5	25	300	15	277-1767-ND	.70	6.71	32.64	PTA 1.5/5-5.0	1988833
6	30	300	15	277-1768-ND	.83	7.92	38.52	PTA 1.5/6-5.0	1988846
7	35	300	15	277-1769-ND	.97	9.24	44.94	PTA 1.5/7-5.0	1988859
8	40	300	15	277-1770-ND	1.12	10.67	51.90	PTA 1.5/8-5.0	1988862
9	45	300	15	277-1771-ND	.92	—	—	PTA 1.5/9-5.0	1988875
10	50	300	15	277-1772-ND	1.40	13.42	65.27	PTA 1.5/10-5.0	1988888
12	60	300	15	277-1774-ND	1.60	15.52	72.50	PTA 1.5/12-5.0	1988901
Fig. 19 — 5.0mm Compact Plug with Screw Connection									
2	10	300	15	277-1607-ND	.28	2.65	12.65	PT 1.5/2-PVH-5.0	1934861
3	15	300	15	277-1608-ND	.42	4.03	19.25	PT 1.5/3-PVH-5.0	1934874
4	20	300	15	277-1609-ND	.56	5.41	25.85	PT 1.5/4-PVH-5.0	1934887
5	25	300	15	277-1610-ND	.68	6.49	31.57	PT 1.5/5-PVH-5.0	1934890
6	30	300	15	277-1611-ND	.79	7.59	36.92	PT 1.5/6-PVH-5.0	1934900
7	35	300	15	277-1612-ND	.70	—	—	PT 1.5/7-PVH-5.0	1934913
8	40	300	15	277-1613-ND	1.07	10.23	49.76	PT 1.5/8-PVH-5.0	1934926
10	50	300	15	277-1615-ND	1.33	12.76	62.06	PT 1.5/10-PVH-5.0	1934942
12	60	300	15	277-1617-ND	1.53	14.87	69.50	PT 1.5/12-PVH-5.0	1934968
Fig. 20 — 5.0mm Pin Strip									
2	10	300	16	277-1645-ND	.09	.86	4.00	PST 1.3/2-5.0	1933189
3	15	300	16	277-1646-ND	.17	1.61	7.50	PST 1.3/3-5.0	1933192
4	20	300	16	277-1647-ND	.23	2.25	10.50	PST 1.3/4-5.0	1933202
5	25	300	16	277-1648-ND	.28	2.68	12.50	PST 1.3/5-5.0	1933215
6	30	300	16	277-1649-ND	.32	3.10	14.50	PST 1.3/6-5.0	1933228
8	40	300	16	277-1651-ND	.44	4.28	20.00	PST 1.3/8-5.0	1933244
10	50	300	16	277-1653-ND	.54	5.24	24.50	PST 1.3/10-5.0	1933260
12	60	300	16	277-1655-ND	.67	6.53	30.50	PST 1.3/12-5.0	1933286
16	80	300	16	277-1659-ND	.88	8.56	40.00	PST 1.3/16-5.0	1933325
Fig. 21 — 10.0mm with Spring-Cage Connection									
1	10	600	30	277-1879-ND	1.17	11.34	53.00	ZFKDS 4-10	1907539
9.0mm End Block for ZFKDS 4-10				277-1880-ND	1.31	12.73	59.50	ZFKDSA 4-9	1907542
Fig. 22 — 5.0mm with Screw Connection - Double Level									
2	10	300	10	277-1367-ND§	2.17	21.08	98.50	MKKDS 1.5/2	1725012
3	15	300	10	277-1368-ND§	3.26	31.67	148.00	MKKDS 1.5/3	1725025
Fig. 22 — 5.08 mm with Screw Connection - Double Level									
2	10.16	300	10	277-1369-ND§	2.17	21.08	98.50	MKKDS 1.5/2-5.08	1725038
3	15.24	300	10	277-1370-ND§	3.26	31.67	148.00	MKKDS 1.5/3-5.08	1725041

No. of Pos.	Dim. A (mm)	UL		Digi-Key Part No.	Pricing			Phoenix Contact Type No.	Phoenix Contact Part No.
		V	A		1	10	50		
Fig. 23 — 5.0mm with Screw Connection - Double Level									
2	10	300	15	277-1371-ND§	3.60	34.99	163.50	MKKDS 3/2	1721029
3	15	300	15	277-1372-ND§	5.38	52.32	244.50	MKKDS 3/3	1721032
Fig. 23 — 5.08mm with Screw Connection - Double Level									
2	10.16	300	15	277-1373-ND§	3.60	34.99	163.50	MKKDS 3/2-5.08	1721728
3	15.24	300	15	277-1374-ND	5.38	52.32	244.50	MKKDS 3/3-5.08	1721731
Fig. 24 — 5.08mm with Press-In Connection									
2	11.34	300	10	277-1284-ND	1.73	16.80	78.50	EMKDS 2.5/2-5.08	1730612
3	16.42	300	10	277-1285-ND	2.62	25.47	119.00	EMKDS 2.5/3-5.08	1730625
4	21.50	300	10	277-1286-ND	3.48	33.81	158.00	EMKDS 2.5/4-5.08	1730638
5	26.58	300	10	277-1287-ND	4.35	42.27	197.50	EMKDS 2.5/5-5.08	1730641
6	31.66	300	10	277-1288-ND	5.20	50.61	236.50	EMKDS 2.5/6-5.08	1730654
8	41.82	300	10	277-1290-ND	6.94	67.52	315.50	EMKDS 2.5/8-5.08	1730670
10	51.98	300	10	277-1292-ND	8.69	84.53	395.00	EMKDS 2.5/10-5.08	1730696
11	57.06	300	10	277-1293-ND	5.91	—	—	EMKDS 2.5/11-5.08	1730706
Fig. 25 — 5.08mm with Spring-Cage Connection — 45°									
1	5.08	300	10	277-1314-ND	.34	3.32	15.50	ZFKDS 1.5-5.08	1706701
7.62mm End Block for ZFKDS 1.5-5.08				277-1315-ND	.48	4.71	22.00	ZFKDSA1.5-7.62	1706727
Fig. 26 — 5.08mm with Spring-Cage Connection — 45°									
1	5.08	300	10	277-1316-ND	.43	4.17	19.50	ZFKDS 1.5-W-5.08	1706714
7.62mm End Block for ZFKDS 1.5-W-5.08				277-1317-ND	.55	5.35	25.00	ZFKDSA 1.5-W-7.62	1706730
Fig. 27 — 5.08mm with Spring-Cage Connection — Double Level									
1	5.08	300	10	277-1318-ND§	.94	9.10	42.50	ZFKKDS 1.5-5.08	1704402
Fig. 28 — 5.08mm with Screw Connection — Triple Level									
2	10.16	300	10	277-1375-ND§	5.87	57.14	267.00	MK3DS 1.5/2-5.08	1724013
3	15.24	300	10	277-1376-ND§	8.82	85.81	401.00	MK3DS 1.5/3-5.08	1724026
Fig. 28 — 5.08mm with Screw Connection — Triple Level									
2	10.16	300	20	277-1377-ND§	5.10	49.65	232.00	MK3DS 3/2-5.08	1723014
3	15.24	300	20	277-1378-ND§	7.66	74.47	348.00	MK3DS 3/3-5.08	1723027
Fig. 29 — 6.35mm with Screw Connection									
2	12.69	300	30	277-1269-ND	1.33	12.95	60.50	MKDS 5/2-6.35	1714955
3	19.04	300	30	277-1270-ND	1.84	17.87	83.50	MKDS 5/3-6.35	1714968
Fig. 30 — 9.52mm with Screw Connection									
2	19.02	600	30	277-1271-ND	1.33	12.95	60.50	MKDS 5/2-9.5	1714971
3	28.52	600	30	277-1272-ND	1.97	19.15	89.50	MKDS 5/3-9.5	1714984
Fig. 31 — 10.0mm with Spring-Cage Connection									
1	10	300	65	277-1825-ND	1.49	14.45	67.50	ZFKDS 10-10.00	1986628
11.7mm End Block for ZFKDS 10-10.00				277-1826-ND	1.82	17.66	82.50	ZFKDSA 10-11.7	1987054
Fig. 32 — 15.0mm with Screw Connection									
2	60	600	115	277-1817-ND	9.16	89.13	383.18	MKDSP 25/2-15.00-F	1932494
3	75	600	115	277-1818-ND	13.74	133.64	574.54	MKDSP 25/3-15.00-F	1932504
4	90	600	115	277-1819-ND	18.34	178.37	766.82	MKDSP 25/4-15.00-F	1932517
5	105	600	115	277-1820-ND	22.56	219.46	943.46	MKDSP 25/5-15.00-F	1932520
6	120	600	115	277-1821-ND	17.02	—	—	MKDSP 25/6-15.00-F	1932533
7	135	600	115	277-1822-ND	19.86	—	—	MKDSP 25/7-15.00-F	1932546
8	150	600	115	277-1823-ND	22.69	—	—	MKDSP 25/8-15.00-F	1932559
9	165	600	115	277-1824-ND	25.53	—	—	MKDSP 25/9-15.00-F	1932562
Fig. 33 — 15.0mm with Spring Cage Connection									
1	15	600	65	277-1827-ND	1.54	14.98	70.00	ZFKDS 10-15.00	1986631
16.7mm End Block for ZFKDS 10-15.00				277-1828-ND	1.87	18.19	85.00	ZFKDSA 10-16.7	1987067

† Parts come in 10 piece stick (can be separated) § Number of positions per level

NEW! Terminal Blocks

Features: • Signal and power • End-to-end stackable • High performance cage-clamp contact system • Durability: 200 cycles • Flammability UL94V-0
Specifications: • Voltage Rating: 300VAC • Withstanding Voltage: 1.6kV • Operating Temperature: -40°C ~ 115°C

Fig. 1

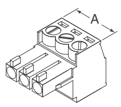

Fig. 2

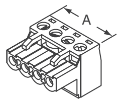

Fig. 3

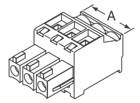

Fig. 4

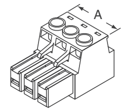

Fig. 5

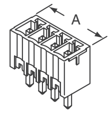

Fig. 6

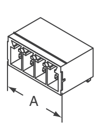

Fig. 7

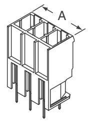

Fig. 8

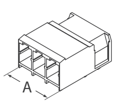

Fig. 9

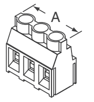

Fig. 10

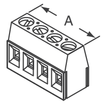

Fig. 11

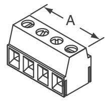

No. of Pos.	Dim. A (mm)	Current Rating (A)	Digi-Key Part No.	Pricing			FCI Part No.
				1	25	100	
Free Hanging (In-Line) Plugs — Screw Termination							
Fig. 1 — 3.81mm Pluggable Plugs — Contact Up Side — Signal							
2	7.62	10	609-3797-ND	1.02	13.10	44.23	20020004-D021B01LF
3	11.43	10	609-3798-ND	1.36	18.33	62.86	20020004-D031B01LF
4	15.24	10	609-3799-ND	1.72	23.29	81.52	20020004-D041B01LF
5	19.05	10	609-3800-ND	2.04	29.11	100.72	20020004-D051B01LF
6	22.86	10	609-3801-ND	2.31	34.06	120.86	20020004-D061B01LF
7	26.67	10	609-3802-ND	2.65	39.73	138.55	20020004-D071B01LF
8	30.48	10	609-3803-ND	2.89	44.24	158.34	20020004-D081B01LF
9	34.29	10	609-3804-ND	3.25	49.78	172.90	20020004-D091B01LF
10	38.10	10	609-3805-ND	3.49	53.85	189.80	20020004-D101B01LF

(Continued)

No. of Pos.	Dim. A (mm)	Current Rating (A)	Digi-Key Part No.	Pricing			FCI Part No.
				1	25	100	
12	45.72	10	609-3806-ND	4.05	62.87	227.74	20020004-D121B01LF
16	60.96	10	609-3807-ND	5.22	81.51	298.08	20020004-D161B01LF
Fig. 2 — 5.0mm Pluggable Plugs — Contact Up Side — Signal							
2	10.0	12	609-3841-ND	1.05	13.68	46.21	20020006-G021B01LF
3	15.0	12	609-3842-ND	1.42	19.15	65.66	20020006-G031B01LF
4	20.0	12	609-3843-ND	1.75	24.32	85.10	20020006-G041B01LF
5	25.0	12	609-3844-ND	2.07	30.40	105.18	20020006-G051B01LF
6	30.0	12	609-3845-ND	2.41	35.56	126.20	20020006-G061B01LF
7	35.0	12	609-3846-ND	2.77	41.49	144.69	20020006-G071B01LF
8	40.0	12	609-3847-ND	3.02	46.20	160.50	20020006-G081B01LF
9	45.0	12	609-3848-ND	3.28	50.61	178.37	20020006-G091B01LF
10	50.0	12	609-3849-ND	3.65	56.24	198.19	20020006-G101B01LF
12	60.0	12	609-3850-ND	4.23	65.66	237.83	20020006-G121B01LF
16	80.0	12	609-3851-ND	5.35	85.12	311.28	20020006-G161B01LF
Fig. 2 — 5.08mm Pluggable Plugs — Contact Up Side — Signal							
2	10.16	12	609-3885-ND	1.05	13.87	46.85	20020006-H021B01LF
3	15.24	12	609-3886-ND	1.44	19.42	66.58	20020006-H031B01LF
4	20.32	12	609-3887-ND	1.78	24.67	86.33	20020006-H041B01LF
5	25.40	12	609-3888-ND	2.10	30.83	106.65	20020006-H051B01LF
6	30.48	12	609-3889-ND	2.44	36.07	127.99	20020006-H061B01LF
7	35.56	12	609-3890-ND	2.76	41.00	146.74	20020006-H071B01LF
8	40.64	12	609-3891-ND	3.06	46.85	162.76	20020006-H081B01LF
9	45.72	12	609-3892-ND	3.33	51.33	180.90	20020006-H091B01LF
10	50.80	12	609-3893-ND	3.70	57.03	201.00	20020006-H101B01LF
12	60.96	12	609-3894-ND	4.29	66.59	241.19	20020006-H121B01LF
16	81.28	12	609-3895-ND	5.43	86.32	315.68	20020006-H161B01LF
Fig. 3 — 3.81mm Pluggable Plugs — Key Entry Side — Signal							
2	7.62	8	609-3786-ND	1.08	14.32	48.37	20020008-D021B01LF
3	11.43	8	609-3787-ND	1.45	20.04	68.72	20020008-D031B01LF
4	15.24	8	609-3788-ND	1.83	25.45	89.08	20020008-D041B01LF
5	19.05	8	609-3789-ND	2.16	31.81	110.06	20020008-D051B01LF
6	22.86	8	609-3790-ND	2.48	37.23	129.81	20020008-D061B01LF
7	26.67	8	609-3791-ND	2.85	42.31	151.44	20020008-D071B01LF
8	30.48	8	609-3792-ND	3.16	48.36	167.97	20020008-D081B01LF
9	34.29	8	609-3793-ND	3.44	52.97	186.67	20020008-D091B01LF
10	38.10	8	609-3794-ND	3.82	58.86	207.43	20020008-D101B01LF
12	45.72	8	609-3795-ND	4.43	68.72	248.90	20020008-D121B01LF
16	60.96	8	609-3796-ND	5.50	89.08	325.76	20020008-D161B01LF
Fig. 3 — 5.0mm Pluggable Plugs — Hook Entry Side — Signal							
2	10.0	12	609-3830-ND	1.09	14.28	49.34	20020008-G021B01LF
3	15.0	12	609-3831-ND	1.48	20.45	70.11	20020008-G031B01LF
4	20.0	12	609-3832-ND	1.87	25.97	90.88	20020008-G041B01LF
5	25.0	12	609-3833-ND	2.21	31.65	112.31	20020008-G051B01LF
6	30.0	12	609-3834-ND	2.53	37.98	132.43	20020008-G061B01LF
7	35.0	12	609-3835-ND	2.91	43.17	154.50	20020008-G071B01LF
8	40.0	12	609-3836-ND	3.22	49.33	171.37	20020008-G081B01LF
9	45.0	12	609-3837-ND	3.51	54.04	190.45	20020008-G091B01LF
10	50.0	12	609-3838-ND	3.76	58.42	211.61	20020008-G101B01LF
12	60.0	12	609-3839-ND	4.52	70.11	253.94	20020008-G121B01LF
16	80.0	12	609-3840-ND	5.61	90.88	332.35	20020008-G161B01LF
Fig. 3 — 5.08mm Pluggable Plugs — Hook Entry Side — Signal							
2	10.16	12	609-3874-ND	1.10	14.38	49.67	20020008-H021B01LF
3	15.24	12	609-3875-ND	1.49	20.58	70.56	20020008-H031B01LF
4	20.32	12	609-3876-ND	1.88	26.14	91.47	20020008-H041B01LF
5	25.40	12	609-3877-ND	2.22	31.85	113.04	20020008-H051B01LF
6	30.48	12	609-3878-ND	2.55	38.22	133.30	20020008-H061B01LF
7	35.56	12	609-3879-ND	2.84	43.45	155.52	20020008-H071B01LF
8	40.64	12	609-3880-ND	3.24	49.66	172.51	20020008-H081B01LF
9	45.72	12	609-3881-ND	3.53	54.39	191.70	20020008-H091B01LF
10	50.80	12	609-3882-ND	3.79	58.81	213.02	20020008-H101B01LF
12	60.96	12	609-3883-ND	4.55	70.57	255.62	20020008-H121B01LF
16	81.28	12	609-3884-ND	5.65	91.48	334.56	20020008-H161B01LF
Fig. 4 — 7.62mm Pluggable Plugs — Contact Down Side — Power							
2	15.24	32	609-3945-ND	2.44	36.67	127.89	20020516-M021B01LF
3	22.86	32	609-3946-ND	3.39	52.19	183.95	20020516-M031B01LF
4	30.48	32	609-3947-ND	4.36	67.71	245.25	20020516-M041B01LF
PCB Sockets — Solder Termination							
Fig. 5 — 3.81mm Pluggable Sockets — Straight — Signal							
2	8.81	10	609-3808-ND	.39	4.53	14.23	20020107-D021A01LF
3	12.62	10	609-3809-ND	.52	6.32	20.41	20020107-D031A01LF
4	16.43	10	609-3810-ND	.65	8.09	25.90	20020107-D041A01LF
5	20.24	10	609-3811-ND	.78	9.71	31.57	20020107-D051A01LF
6	24.05	10	609-3812-ND	.89	11.17	37.87	20020107-D061A01LF
7	27.86	10	609-3813-ND	1.00	12.75	43.05	20020107-D071A01LF
8	31.67	10	609-3814-ND	1.09	14.25	49.21	20020107-D081A01LF
9	35.48	10	609-3815-ND	1.17	16.03	53.91	20020107-D091A01LF
10	39.29	10	609-3816-ND	1.26	17.81	58.28	20020107-D101A01LF
12	46.91	10	609-3817-ND	1.48	20.40	69.93	20020107-D121A01LF
16	62.15	10	609-3818-ND	1.86	25.90	90.65	20020107-D161A01LF
Fig. 5 — 5.0mm Pluggable Sockets — Straight — Signal							
2	12.0	12	609-3852-ND	.40	4.65	14.61	20020107-G021A01LF
3	17.0	12	609-3853-ND	.54	6.48	20.94	20020107-G031A01LF
4	22.0	12	609-3854-ND	.66	8.31	26.58	20020107-G041A01LF
5	27.0	12	609-3855-ND	.80	9.97	32.41	20020107-G051A01LF
6	32.0	12	609-3856-ND	.92	11.47	38.88	20020107-G061A01LF
7	37.0	12	609-3857-ND	1.02	13.08	44.19	20020107-G071A01LF
8	42.0	12	609-3858-ND	1.12	14.62	50.52	20020107-G081A01LF
9	47.0	12	609-3859-ND	1.20	16.45	55.33	20020107-G091A01LF
10	52.0	12	609-3860-ND	1.30	18.28	59.81	20020107-G101A01LF
12	62.0	12	609-3861-ND	1.52	20.94	71.78	20020107-G121A01LF
16	82.0	12	609-3862-ND	1.91	26.59	93.07	20020107-G161A01LF
Fig. 5 — 5.08mm Pluggable Sockets — Straight — Signal							
2	12.16	12	609-3896-ND	.41	4.77	15.00	20020107-H021A01LF
3	17.24	12	609-3897-ND	.54	6.65	21.48	20020107-H031A01LF
4	22.32	12	609-3898-ND	.68	8.52	27.26	20020107-H041A01LF
5	27.40	12	609-3899-ND	.82	10.23	33.25	20020107-H051A01LF
6	32.48	12	609-3900-ND	.92	11.76	39.90	20020107-H061A01LF
7	37.56	12	609-3901-ND	1.03	13.42	45.33	20020107-H071A01LF
8	42.64	12	609-3902-ND	1.09	15.00	50.45	20020107-H081A01LF
9	47.72	12	609-3903-ND	1.23	16.88	56.78	20020107-H091A01LF
10	52.80	12	609-3904-ND	1.33	18.75	61.36	20020107-H101A01LF
12	62.96	12	609-3905-ND	1.53	21.48	73.64	20020107-H121A01LF
16	83.28	12	609-3906-ND	1.91	27.28	94.37	20020107-H161A01LF
Fig. 6 — 3.81mm Pluggable Sockets — Right Angle — Signal							
2	8.81	10	609-3819-ND	.40	4.72	14.83	20020110-D021A01LF
3	12.62	10	609-3820-ND	.55	6.57	21.23	20020110-D031A01LF
4	16.43	10	609-3821-ND	.67	8.42	26.94	20020110-D041A01LF
5	20.24	10	609-3822-ND	.81	10.10	32.84	20020110-D051A01LF
6	24.05	10	609-3823-ND	.93	11.62	39.41	20020110-D061A01LF
7	27.86	10	609-3824-ND	1.01	13.26	44.80	20020110-D071A01LF
8	31.67	10	609-3825-ND	1.08	14.82	49.86	20020110-D081A01LF
9	35.48	10	609-3826-ND	1.21	16.68	56.09	20020110-D091A01LF
10	39.29	10	609-3827-ND	1.31	18.52	60.62	20020110-D101A01LF
12	46.91	10	609-3828-ND	1.54	21.22	72.76	20020110-D121A01LF
16	62.15	10	609-3829-ND	1.89	26.95	93.25	20020110-D161A01LF
Fig. 6 — 5.0mm Pluggable Sockets — Right Angle — Signal							
2	12.0	12	609-3863-ND	.41	4.84	15.20	20020110-G021A01LF
3	17.0	12	609-3864-ND	.54	6.74	21.78	20020110-G031A01LF
4	22.0	12	609-3865-ND	.69	8.63	27.62	20020110-G041A01LF
5	27.0	12	609-3866-ND	.82	10.36	33.68	20020110-G051A01LF
6	32.0	12	609-3867-ND	.93	11.92	40.42	20020110-G061A01LF
7	37.0	12	609-3868-ND	1.04	13.60	45.94	20020110-G071A01LF
8	42.0	12	609-3869-ND	1.11	15.20	51.13	20020110-G081A01LF
9	47.0	12	609-3870-ND	1.24	17.10	57.52	20020110-G091A01LF
10	52.0	12	609-3871-ND	1.35	18.14	62.19	20020110-G101A01LF
12	62.0	12	609-3872-ND	1.55	21.76	74.61	20020110-G121A01LF
16	82.0	12	609-3873-ND	1.93	27.64	95.63	20020110-G161A01LF
Fig. 6 — 5.08mm Pluggable Sockets — Right Angle — Signal							
2	12.16	12	609-3907-ND	.42	4.96	15.58	20020110-H021A01LF
3	17.24	12	609-3908-ND	.56	6.91	22.32	20020110-H031A01LF
4	22.32	12	609-3909-ND	.71	8.86	28.34	20020110-H041A01LF
5	27.40	12	609-3910-ND	.84	10.62	34.52	20020110-H051A01LF
6	32.48	12	609-3911-ND	.96	12.21	41.42	20020110-H061A01LF
7	37.56	12	609-3912-ND	1.05	13.94	47.08	20020110-H071A01LF
8	42.64	12	609-3913-ND	1.13	15.58	52.39	20020110-H081A01LF
9	47.72	12	609-3914-ND	1.27	17.52	58.94	20020110-H091A01LF
10	52.80	12	609-3915-ND	1.38	18.59	63.74	20020110-H101A01LF
12	62.96	12	609-3916-ND	1.59	22.31	76.48	20020110-H121A01LF
16	83.28	12	609-3917-ND	1.98	28.33	98.00	20020110-H161A01LF
Fig. 7 — 7.62mm Pluggable Sockets — Straight — Power							
2	15.24	32	609-3948-ND	1.33	18.71	61.24	20020620-M021A01LF
3	22.86	32	609-3949-ND	1.84	25.52	89.30	20020620-M031A01LF
4	30.48	32	609-3950-ND	2.31	33.17	117.71	20020620-M041A01LF
Fig. 8 — 7.62mm Pluggable Sockets — Right Angle — Power							
2	15.24	32	609-3951-ND	1.42	19.67	67.43	20020618-M021A01LF
3	22.86	32	609-3952-ND	1.97	28.10	97.21	20020618-M031A01LF
4	30.48	32	609-3953-ND	2.43	36.52	127.35	20020618-M041A01LF
PCB Fixed — Wire-to-Board — Side Stacking (Interlocking) — Screw Termination							
Fig. 9 — 7.62mm Fixed — Horizontal Wire Inlet — Power							
2	15.24	30	609-3954-ND	1.67	22.63	79.19	20020705-M021B01LF
3	22.86	30	609-3955-ND	2.31	33.09	117.43	20020705-M031B01LF
Fig. 10 — 5.0mm Fixed — Horizontal Wire Inlet — Signal							
2	10.0	16	609-3927-ND	.78	9.72	31.59	20020316-G021B01LF
3	15.0	16	609-3928-ND	1.04	13.67	46.17	20020316-G031B01LF
4	20.0	16	609-3929-ND	1.26	17.82	58.32	20020316-G041B01LF
5	25.0	16	609-3930-ND	1.54	21.27	72.92	20020316-G051B01LF
6	30.0	16	609-3931-ND	1.75	24.31	85.07	20020316-G061B01LF
7	35.0	16	609-3932-ND	1.98	28.36	98.11	20020316-G071B01LF
8	40.0	16	609-3933-ND	2.20	31.59	112.12	20020316-G081B01LF
9	45.0	16	609-3934-ND	2.41	35.54	126.13	20020316-G091B01LF
10	50.0	16	609-3935-ND	2.63	39.49	137.72	20020316-G101B01LF
Fig. 10 — 5.08mm Fixed — Horizontal Wire Inlet — Signal							
2	10.16	16	609-3936-ND	.79	9.92	32.25	20020316-H021B01LF
3	15.24	16	609-3937-ND	1.05	13.96	47.14	20020316-H031B01LF
4	20.32	16	609-3938-ND	1.29	18.21	59.58	20020316-H041B01LF
5	25.40	16	609-3939-ND	1.55	21.72	74.47	20020316-H051B01LF
6	30.48	16	609-3940-ND	1.79	24.82	86.87	20020316-H061B01LF
7	35.56	16	609-3941-ND	2.03	28.96	100.18	20020316-H071B01LF
8	40.64	16	609-3942-ND	2.25	32.26	114.49	20020316-H081B01LF
9	45.72	16	609-3943-ND	2.46	36.29	128.80	20020316-H091B01LF
10	50.80	16	609-3944-ND	2.69	40.33	140.64	20020316-H101B01LF
Fig. 11 — 3.81mm Fixed — Horizontal Wire Inlet — Signal							
2	7.62	10	609-3918-ND	.73	8.75	29.18	20020327-D021B01LF
3	11.43	10	609-3919-ND	.99	12.32	41.61	20020327-D031B01LF
4	15.24	10	609-3920-ND	1.17	16.06	54.02	20020327-D041B01LF
5	19.05	10	609-3921-ND	1.42	19.16	65.70	20020327-D051B01LF
6	22.86	10	609-3922-ND	1.62	21.90	76.65	20020327-D061B01LF
7	26.67	10	609-3923-ND	1.84	25.55	89.41	20020327-D071B01LF
8	30.48	10	609-3924-ND	2.04	29.20	101.03	20020327-D081B01LF
9	34.29	10	609-3925-ND	2.23	32.03	113.66	20020327-D091B01LF
10	38.10	10	609-3926-ND	2.41	35.59	126.29	20020327-D101B01LF

HIROSE ELECTRIC CO., LTD.

HR31 Series Connectors

Fig. 1

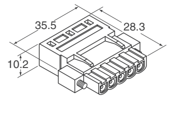

Fig. 2

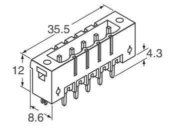

Fig. 3

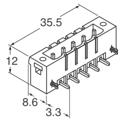

Features: • Crimped and connected to terminal then fastened simply by inserting into housing • High density mounting • Prevention of connection errors • No need for screws, built-in locking pin secures connector to the board
Applications: Power units and communications units for factory automation related devices
Product Specifications: • Current Rating: 12A (2.5mm^2 wire); 10A (1.5mm^2 wire) • Voltage Rating: 250VAC, 350VDC • Operating Temperature Range: -40°C ~ 100°C • Storage Temperature Range: -40°C ~ 85°C (for a multi-strand conductor)
Materials: • **Plug:** Insulator: PBT, Black finish, UL 94V-0; Screw: Steel, Zinc plating • **Header:** Insulator: PBT, Black finish, UL 94V-0; Nut: Steel, Zinc plating; Board Retention Pin: Phosphor bronze, Tin plating

Fig.	Wire Size (AWG)	Contact Plating	Contact Size (mm^2)	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
1	—	—	—	H11442-ND◆	3.19	61.88	198.00	HR31-5.08P-5SC(71)
2	—	Gold	—	H11443-ND◆	5.48	106.31	340.20	HR31-5.08R-5PD(72)
3	—	Gold	—	H4114-ND	5.28	102.38	327.60	HR31-5.08R-5PDL(01)
	—	Gold	—	H11444-ND◆	5.37	104.06	333.00	HR31-5.08R-5PDL(72)
Crimp Contacts								
—	14 ~ 16	Gold	1.04 ~ 2.63	H11445-ND◆	1.44	26.13	85.50	HR31-SC-111(71)
	18 ~ 24	Gold	0.2 ~ 1.65	H11446-ND◆	1.44	26.13	85.50	HR31-SC-121(71)
Contact Extraction Tool				H9916-ND	6.84	—	—	HR31-SC-TP
Crimp Tool				H9917-ND	106.40	—	—	HR31-TC-01

◆ ***RoHS Compliant***

GC ELECTRONICS™

Spring Push Terminals

These terminals have spring loaded posts for easy connection with Red and Black color codes. Designed for various audio applications such as surround sound and speaker connections, amplifiers and more. Maximum allowed wire size 14AWG.

2-Pos.

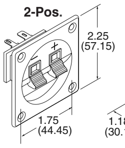

8-Pos.

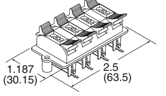

GC399-ND◆ 2 Positions for panel mounting to speakers, mounts in 2” (50.80mm) hole.................... **$1.60**
GC400-ND 4 Positions for mounting, directly to chassis or panels **$1.84**
GC401-ND◆ 8 Positions with right angle PCB terminals, with Mounting Ears............................... **$2.79**

◆ ***RoHS Compliant***

Tyco Electronics
Authorized Distributor

AMP FLEXI-BLOCK® Terminal Block System

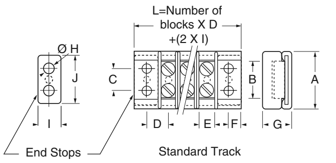

Accessories	
Jumper Tab 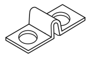	90° Tab
45° Tab 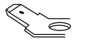	Flat Tab

Snip It!

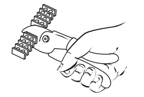

Slide It!

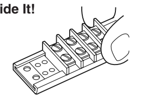

Snap It!

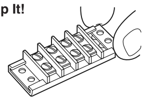

Specifications: • Blocks and End Stops: Nylon • Track: NORYL EN 265 • FASTON Tab and Jumper Tab: Tin plated brass • Screws: Nickel plated brass **Ratings:** • 6000 Breakdown voltage, rms line-to-line • 6000 Breakdown voltage, rms line-to-ground • Operating Temperature: 105°C Maximum

Max. Size	Max. Amps	Volts	Wire Range	Dimensions – Inch A	B	C	D	E	F	G	H	I	J
6	15	300	22-14	1.125	.750	.422	.375	.343	.219	.563	.171	.437	.96
8	30	600	22-10	1.312	.875	.500	.375	.437	.281	.656	.203	.557	1.15

Size	Description	Digi-Key Part No.	Pricing 1	10	AMP Part No.
6	#6 Block Assembly, 100 pcs/pkg	A0130-ND◆	76.00/pkg		1-604102-1
8	#8 Block Assembly, 100 pcs/pkg	A0131-ND◆	108.00/pkg		1-604152-1
6	Track 36” long, 80 positions	A0132-ND◆	7.18	64.58	1-601805-1
8	Track 36” long, 60 positions	A0133-ND◆	8.15	70.09	1-601806-1
6	End Stop, 2 required per assembly	A0134-ND◆	—	1.98	604111-1
8	End Stop, 2 required per assembly	A0135-ND◆	—	2.21	604161-1
6, 8	Flat Tab	A0136-ND	—	15.57	601989-1
6, 8	45° Tab	A0137-ND◆	—	15.84	601989-2
6, 8	90° Tab	A0138-ND	—	8.08	601989-3
6	Jumper Tab	A0139-ND◆	—	2.32	601985-2
8	Jumper Tab	A0140-ND◆	—	2.84	604591-1
6	#6 Terminal Block Kit	A0150-ND◆§	136.45	1228.05	601804-8
8	#8 Terminal Block Kit	A0151-ND◆†	133.75	1203.75	604336-1

◆ ***RoHS Compliant*** § Kit contains 100-block assembly, 25 end stops and 2 tracks. † Kit contains 100-block assembly, 50 end stops and 8 tracks.

Tyco Electronics
Authorized Distributor

Barrier Blocks

RoHS COMPLIANT

Dual Barrier: **Material:** • Housing: *Fig. 1A, 1B and 1D:* Polyamide, UL94V-0, Black; *Fig. 1C:* Nylon, UL94V-0, Black • Terminals: Copper Alloy, Tin plated; *Fig. 1D:* Brass, Tin Plated • Screws: Steel, Zinc plated; *Fig. 1D:* Steel, Nickel Plated **Electrical:** • Current Rating: *Fig. 1A:* 20A, UL/CSA; *Fig. 1B:* UL/CSA – Class B: 25A, 300V, Class C: 20A, 150V; *Fig. 1C:* 30A, 600V, UL/CSA; *Fig. 1D:* 15A, 300V **Mechanical:** • Wire Range: *Fig. 1A and 1B:* 12-22AWG; *Fig. 1C:* 10-18AWG (UL), 10-22AWG (CSA); *Fig. 1D:* 16-22AWG • Tightening Torque (max.): *Fig. 1A and 1B:* 7in-lbs; *Fig. 1C:* 20in-lbs; *Fig. 1D:* 12lb-in • Operating Temperature: *Fig. 1A and 1D:* -40°C ~ 105°C; *Fig. 1B:* 105°C max.; *Fig. 1C:* -40°C ~ 120°C
Double Row Dual Barrier: **Material:** • Housing: Thermoplastic, PC, UL94V-0, Black • Terminals: Brass, Tin plated • Screws: Steel, Nickel plated **Electrical:** • Current Rating (max.): 9.50mm Pin Spacing: 20A, 300V; 11.10 Pin Spacing: 25A, 300V **Mechanical:** • Wire Range: 9.50mm Pin Spacing: 12-22AWG; 11.10 Pin Spacing: 14-22AWG • Tightening Torque (Recommended): 12in-lbs • Operating Temperature: -40°C ~ 120°C
Tri-Barrier: **Material:** • Housing: Thermoplastic, UL94V-0, Black • Terminals: Bright Tin Plated, Copper Alloy • Screws Steel, Zinc Plated with Clear Chromate **Electrical:** • Current Rating: UL/CSA; Class C: 25A, 300V; Class D: 5A, 600 **Mechanical:** • Wire Range: 12-22AWG • Tightening Torque (Recommended): 7in-lbs • Operating Temperature: 105°C max.

Fig. 1

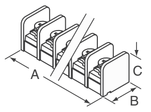

A

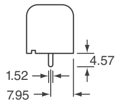

B

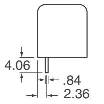

C

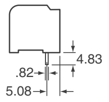

D ***NEW!***

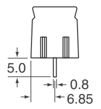

Fig. 2

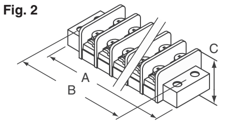

Fig. 3

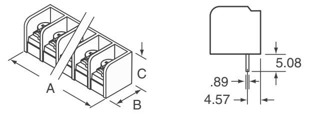

Fig.	Dimensions (mm) A	B	C	No. of Pins	Pin Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
Dual Barrier										
1A	20.60	16.0	16.51	2	9.53	A98495-ND	.62	.56	.50	3-1437664-0
	30.12	16.0	16.51	3	9.53	A98496-ND	.96	.87	.77	3-1437664-1
	39.65	16.0	16.51	4	9.53	A98497-ND	1.26	1.13	1.01	3-1437664-3
	49.17	16.0	16.51	5	9.53	A98498-ND	1.55	1.40	1.25	3-1437664-5
	58.70	16.0	16.51	6	9.53	A98499-ND	1.84	1.66	1.47	3-1437664-8
	68.22	16.0	16.51	7	9.53	A98525-ND	2.45	2.21	1.96	4-1437664-0
	77.75	16.0	16.51	8	9.53	A98500-ND	2.53	2.28	2.02	4-1437664-1
	96.80	16.0	16.51	10	9.53	A98501-ND	3.08	2.77	2.46	4-1437664-4
	115.85	16.0	16.51	12	9.53	A98502-ND	3.70	3.33	2.96	4-1437664-7
	153.95	16.0	16.51	16	9.53	A98467-ND	5.63	5.07	4.50	5-1437664-1
1B	18.16	12.7	13.46	2	8.26	A98472-ND	.51	.47	.42	2-1437667-4
	26.42	12.7	13.46	3	8.26	A98473-ND	.77	.70	.62	2-1437667-5
	34.67	12.7	13.46	4	8.26	A98474-ND	1.03	.93	.83	2-1437667-6
	42.93	12.7	13.46	5	8.26	A98475-ND	1.28	1.16	1.03	2-1437667-8
	51.18	12.7	13.46	6	8.26	A98476-ND	1.54	1.39	1.24	2-1437667-9
	59.44	12.7	13.46	7	8.26	A98477-ND	1.81	1.63	1.45	3-1437667-0
	67.69	12.7	13.46	8	8.26	A98478-ND	2.03	1.83	1.62	3-1437667-1
	84.20	12.7	13.46	10	8.26	A98479-ND	2.58	2.32	2.06	3-1437667-3
	100.71	12.7	13.46	12	8.26	A98480-ND	3.08	2.77	2.46	3-1437667-6
1C	24.05	20.32	19.5	2	11.13	A98460-ND	1.07	.96	.86	5-1437657-7
	35.18	20.32	19.5	3	11.13	A98461-ND	1.42	1.28	1.14	6-1437657-9
	46.28	20.32	19.5	4	11.13	A98462-ND	1.86	1.68	1.50	8-1437657-0
	57.40	20.32	19.5	5	11.13	A98463-ND	2.38	2.14	1.90	8-1437657-8
	68.50	20.32	19.5	6	11.13	A98464-ND	2.80	2.52	2.24	9-1437657-8
	79.63	20.32	19.5	7	11.13	A98493-ND	3.93	3.54	3.14	1-1437658-1
	90.75	20.32	19.5	8	11.13	A98465-ND	3.73	3.36	2.98	2-1437658-1
	112.98	20.32	19.5	10	11.13	A98466-ND	4.68	4.21	3.74	3-1437658-3
	135.20	20.32	19.5	12	11.13	A98494-ND	5.60	5.04	4.48	4-1437658-5
1D	24.75	13.7	14.8	2	8.25	A100163-ND ***NEW!***	.95	.86	.76	1977477-2
	16.50	13.7	14.8	3	8.25	A100164-ND ***NEW!***	1.42	1.28	1.14	1977477-3
Double Row Dual Barrier										
2	36.2	28.7	13.0	2	9.50	A98503-ND§	.59	.54	.48	1546306-2
	41.2	33.3	14.0	2	11.10	A98514-ND†	.82	.75	.66	1546670-2
	45.7	38.2	13.0	3	9.50	A98504-ND§	.85	.77	.69	1546306-3
	52.3	44.4	14.0	3	11.10	A98515-ND†	1.16	1.05	.93	1546670-3
	55.2	47.7	13.0	4	9.50	A98505-ND§	1.39	1.26	1.12	1546306-4
	63.4	55.5	14.0	4	11.10	A98516-ND†	1.53	1.38	1.23	1546670-4
	64.7	57.2	13.0	5	9.50	A98506-ND§	1.44	1.30	1.16	1546306-5
	74.5	66.6	14.0	5	11.10	A98517-ND†	1.88	1.69	1.51	1546670-5
	74.2	66.7	13.0	6	9.50	A98507-ND§	1.65	1.49	1.32	1546306-6
	85.6	77.7	14.0	6	11.10	A98518-ND†	2.25	2.03	1.80	1546670-6
	83.7	76.2	13.0	7	9.50	A98508-ND§	2.43	2.19	1.94	1546306-7
	96.7	88.8	14.0	7	11.10	A98519-ND†	2.93	2.64	2.34	1546670-7
	93.2	85.7	13.0	8	9.50	A98509-ND§	2.30	2.07	1.84	1546306-8
	107.8	99.9	14.0	8	11.10	A98520-ND†	3.00	2.70	2.40	1546670-8
	130.0	122.1	14.0	10	11.10	A98521-ND†	3.78	3.40	3.02	1-1546670-0
	131.2	123.7	13.0	12	9.50	A98510-ND§	3.45	3.11	2.76	1-1546306-2
	152.2	144.3	14.0	12	11.10	A98522-ND†	4.53	4.08	3.62	1-1546670-2
	150.2	142.7	13.0	14	9.50	A98511-ND§	3.98	3.58	3.18	1-1546306-4
	174.4	166.5	14.0	14	11.10	A98523-ND†	5.25	4.73	4.20	1-1546670-4
	159.7	152.2	13.0	15	9.50	A98468-ND§	4.28	3.85	3.42	1-1546306-5
	185.5	177.6	14.0	15	11.10	A98470-ND†	5.55	5.00	4.44	1-1546670-5
	169.2	161.7	13.0	16	9.50	A98512-ND§	4.60	4.14	3.68	1-1546306-6
	196.6	188.7	14.0	16	11.10	A98524-ND†	6.03	5.43	4.82	1-1546670-6
	188.2	180.7	13.0	18	9.50	A98513-ND§	5.18	4.66	4.14	1-1546306-8
	218.8	210.9	14.0	18	11.10	A98471-ND†	6.73	6.06	5.38	1-1546670-8
	302.2	294.7	13.0	30	9.50	A98469-ND§	8.50	7.65	6.80	3-1546306-0
Tri-Barrier										
3	20.60	17.78	15.9	2	9.53	A98481-ND	.81	.73	.65	3-1437652-9
	30.12	17.78	15.9	3	9.53	A98482-ND	1.09	.99	.88	5-1437652-4
	39.65	17.78	15.9	4	9.53	A98483-ND	1.39	1.26	1.12	6-1437652-7
	49.17	17.78	15.9	5	9.53	A98484-ND	1.84	1.66	1.47	8-1437652-2
	58.70	17.78	15.9	6	9.53	A98485-ND	2.19	1.97	1.75	9-1437652-5
	68.22	17.78	15.9	7	9.53	A98459-ND	2.50	2.25	2.00	1437653-7
	77.75	17.78	15.9	8	9.53	A98486-ND	2.93	2.64	2.34	1-1437653-3
	87.27	17.78	15.9	9	9.53	A98487-ND	3.30	2.97	2.64	2-1437653-5
	96.80	17.78	15.9	10	9.53	A98488-ND	3.68	3.31	2.94	3-1437653-5
	115.85	17.78	15.9	12	9.53	A98489-ND	4.25	3.83	3.40	5-1437653-1
	134.90	17.78	15.9	14	9.53	A98490-ND	4.93	4.44	3.94	6-1437653-8
	144.42	17.78	15.9	15	9.53	A98491-ND	5.28	4.75	4.22	7-1437653-4
	153.95	17.78	15.9	16	9.53	A98492-ND	5.78	5.20	4.62	8-1437653-0

† With binding HD screw § Without washer

NEW! AMP Pivot Connector Series

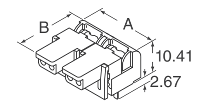

No. of Pos.	Dim. (mm)		AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
	A	B				1	10	100	
2 (1 Pair)	9.91	16.38	22-26	Black, Clear	A100175-ND	2.75	2.48	2.20	1339222-2
2 (1 Pair)	9.91	16.38	22-26	Black	A100176-ND	1.65	1.49	1.32	1339345-1
2 (1 Pair)	9.91	16.38	22-26	Black, Red	A100177-ND	2.97	2.68	2.38	1339342-1
4 (2 Pair)	19.81	16.38	22-26	Black	A100178-ND	4.95	4.46	3.96	1339313-1
4 (2 Pair)	19.81	16.38	22-26	Black	A100179-ND	2.42	2.18	1.94	1339374-2
4 (2 Pair)	19.81	16.38	22-26	Black, Red	A100180-ND	2.35	2.12	1.89	1339343-1
4 (2 Pair)	19.81	20.93	22-26	Black, Clear	A100181-ND	2.64	2.38	2.12	1339376-1
8 (4 Pair)	39.62	20.93	22-26	Black, Clear	A100182-ND	7.93	7.14	6.34	1339376-2
8 (4 Pair)	39.62	16.38	22-26	Black, Red	A100183-ND	7.15	6.44	5.72	1339344-1
8 (4 Pair)	39.62	16.38	22-26	Black	A100184-ND	5.40	4.86	4.32	1339312-1
8 (4 Pair)	39.62	16.38	22-26	Black	A100185-ND	7.38	6.64	5.90	1339375-2

The Pivot Connector Series is a toolless, user friendly solution for terminating signal and low power connections. Simply feed a pair of unstripped wires into the connector and complete the termination by pressing down the pivoting stuffer with your thumb or index finger. Insulation displacement contacts (IDCs) in the connector eliminate the need for stripping wires and make the termination even easier.
Specifications: • Voltage: 250 Volts AC • Current: 5 Amperage

Terminal Blocks – One Piece Connectors

Board Mount – Side Wire Entry (Vertical)

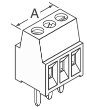

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
2.54mm Centerline, 10.0mm Profile										
2	5.54	150	10	16 ~ 30	Green	A98333-ND	.66	.60	.53	282834-2
3	8.08	150	10	16 ~ 30	Green	A98334-ND	1.00	.90	.80	282834-3
4	10.62	150	10	16 ~ 30	Green	A98335-ND	1.35	1.22	1.08	282834-4
5	13.16	150	10	16 ~ 30	Green	A98336-ND	1.66	1.50	1.33	282834-5
6	15.70	150	10	16 ~ 30	Green	A98337-ND	2.01	1.81	1.61	282834-6
8	20.78	150	10	16 ~ 30	Green	A98338-ND	2.70	2.43	2.16	282834-8
10	25.86	150	10	16 ~ 30	Green	A98074-ND	3.35	3.02	2.68	1-282834-0
12	30.94	150	10	16 ~ 30	Green	A98075-ND	4.03	3.63	3.22	1-282834-2
3.5mm Centerline, 12.6mm Profile — With Interlock										
2	7.0	300	12	14 ~ 30	Green	A98159-ND	.57	.51	.46	284391-2
3	10.5	300	12	14 ~ 30	Green	A98160-ND	.88	.79	.71	284391-3
4	14.0	300	12	14 ~ 30	Green	A98161-ND	1.15	1.04	.92	284391-4
5	17.5	300	12	14 ~ 30	Green	A98372-ND	1.46	1.32	1.17	284391-5
6	21.0	300	12	14 ~ 30	Green	A98162-ND	1.71	1.55	1.38	284391-6
8	28.0	300	12	14 ~ 30	Green	A98163-ND	2.30	2.07	1.84	284391-8
10	35.0	300	12	14 ~ 30	Green	A98164-ND	2.90	2.61	2.32	1-284391-0
12	42.0	300	12	14 ~ 30	Green	A98165-ND	3.45	3.11	2.76	1-284391-2
3.5mm Centerline, 8.5mm Profile, High Temperature — Without Interlock										
2	7.0	300	12	16 ~ 28	Black	A97973-ND	.59	.54	.48	1776112-2
3	10.5	300	12	16 ~ 28	Black	A97974-ND	.96	.87	.77	1776112-3
4	14.0	300	12	16 ~ 28	Black	A97975-ND	1.20	1.09	.97	1776112-4
3.81mm Centerline, 12.6mm Profile — With Interlock										
2	7.62	300	12	14 ~ 30	Green	A98166-ND	.57	.51	.46	284392-2
3	11.43	300	12	14 ~ 30	Green	A98167-ND	.88	.79	.71	284392-3
4	15.24	300	12	14 ~ 30	Green	A98168-ND	1.15	1.04	.92	284392-4
5	19.05	300	12	14 ~ 30	Green	A98169-ND	1.46	1.32	1.17	284392-5
6	22.86	300	12	14 ~ 30	Green	A98373-ND	1.71	1.55	1.38	284392-6
8	30.48	300	12	14 ~ 30	Green	A98170-ND	2.30	2.07	1.84	284392-8
10	38.10	300	12	14 ~ 30	Green	A98171-ND	2.90	2.61	2.32	1-284392-0
12	45.72	300	12	14 ~ 30	Green	A98172-ND	3.45	3.11	2.76	1-284392-2
3.81mm Centerline, 8.5mm Profile, High Temperature — Without Interlock										
2	7.62	150	12	16 ~ 28	Black	A97976-ND	1.00	.90	.80	1776113-2
3	11.43	150	12	16 ~ 28	Black	A97977-ND	1.47	1.33	1.18	1776113-3
4	15.24	150	12	16 ~ 28	Black	A97978-ND	1.97	1.78	1.58	1776113-4
5	19.05	150	12	16 ~ 28	Black	A97979-ND	2.48	2.23	1.98	1776113-5
6	22.86	150	12	16 ~ 28	Black	A97980-ND	2.98	2.68	2.38	1776113-6
8	30.48	150	12	16 ~ 28	Black	A97981-ND	3.83	3.45	3.06	1776113-8
10	38.10	150	12	16 ~ 28	Black	A97982-ND	4.95	4.46	3.96	1-1776113-0
12	45.72	150	12	16 ~ 28	Black	A97983-ND	5.93	5.34	4.74	1-1776113-2
5.0mm Centerline, 10.0mm Low Profile — With Interlock										
2	10.0	300	10	16 ~ 30	Green	A98076-ND	.43	.39	.35	282836-2
3	15.0	300	10	16 ~ 30	Green	A98077-ND	.52	.47	.42	282836-3
4	20.0	300	10	16 ~ 30	Green	A98078-ND	.82	.75	.66	282836-4
5	25.0	300	10	16 ~ 30	Green	A98079-ND	1.01	.92	.81	282836-5
6	30.0	300	10	16 ~ 30	Green	A98339-ND	1.24	1.12	1.00	282836-6
8	40.0	300	10	16 ~ 30	Green	A98080-ND	1.61	1.45	1.29	282836-8
10	50.0	300	10	16 ~ 30	Green	A98340-ND	2.04	1.84	1.64	1-282836-0
12	60.0	300	10	16 ~ 30	Green	A98341-ND	2.43	2.19	1.94	1-282836-2
5.0mm Centerline, 19.0mm Profile — With Interlock										
2	10.0	300	20	12 ~ 30	Green	A98355-ND	.63	.58	.51	282856-2
3	15.0	300	20	12 ~ 30	Green	A98356-ND	.96	.87	.77	282856-3
4	20.0	300	20	12 ~ 30	Green	A98357-ND	1.31	1.18	1.05	282856-4
5	25.0	300	20	12 ~ 30	Green	A98358-ND	1.59	1.44	1.28	282856-5
6	30.0	300	20	12 ~ 30	Green	A98105-ND	1.93	1.74	1.55	282856-6
8	40.0	300	20	12 ~ 30	Green	A98106-ND	2.58	2.32	2.06	282856-8
10	50.0	300	20	12 ~ 30	Green	A98107-ND	3.23	2.91	2.58	1-282856-0
12	60.0	300	20	12 ~ 30	Green	A98108-ND	3.85	3.47	3.08	1-282856-2
5.08mm Centerline, 10.0mm Low Profile, High Temperature — With Interlock										
2	10.16	300	10	16 ~ 30	Black	A97984-ND	.73	.66	.59	1776119-2
3	15.24	300	10	16 ~ 30	Black	A97985-ND	.74	.67	.60	1776119-3
4	20.32	300	10	16 ~ 30	Black	A97986-ND	.97	.88	.78	1776119-4
5	25.40	300	10	16 ~ 30	Black	A97987-ND	1.26	1.13	1.01	1776119-5
6	30.48	300	10	16 ~ 30	Black	A97988-ND	1.46	1.31	1.17	1776119-6
5.08mm Centerline, 15.2mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98342-ND	.55	.50	.45	282841-2
3	15.24	300	15	12 ~ 30	Green	A98343-ND	.83	.75	.66	282841-3
4	20.32	300	15	12 ~ 30	Green	A98081-ND	1.08	.97	.86	282841-4
5	25.40	300	15	12 ~ 30	Green	A98082-ND	1.39	1.26	1.12	282841-5
6	30.48	300	15	12 ~ 30	Green	A98344-ND	1.66	1.50	1.33	282841-6
8	40.64	300	15	12 ~ 30	Green	A98345-ND	2.25	2.03	1.80	282841-8
10	50.80	300	15	12 ~ 30	Green	A98083-ND	2.78	2.50	2.22	1-282841-0
12	60.96	300	15	12 ~ 30	Green	A98346-ND	3.33	3.00	2.66	1-282841-2
5.08mm Centerline, 19.0mm Profile — With Interlock										
2	10.16	300	20	12 ~ 30	Green	A98359-ND	.86	.78	.70	282857-2
3	15.24	300	20	12 ~ 30	Green	A98360-ND	.96	.87	.77	282857-3
4	20.32	300	20	12 ~ 30	Green	A98361-ND	1.31	1.18	1.05	282857-4
5	25.40	300	20	12 ~ 30	Green	A98109-ND	1.59	1.44	1.28	282857-5
6	30.48	300	20	12 ~ 30	Green	A98110-ND	1.93	1.74	1.55	282857-6
8	40.64	300	20	12 ~ 30	Green	A98362-ND	2.58	2.32	2.06	282857-8
10	50.80	300	20	12 ~ 30	Green	A98111-ND	3.23	2.91	2.58	1-282857-0
12	60.96	300	20	12 ~ 30	Green	A98112-ND	3.85	3.47	3.08	1-282857-2
7.5mm Centerline, 15.2mm Profile — With Interlock										
2	15.0	300	15	12 ~ 30	Green	A98092-ND	.61	.55	.49	282844-2
3	22.5	300	15	12 ~ 30	Green	A98093-ND	.92	.83	.74	282844-3
4	30.0	300	15	12 ~ 30	Green	A98094-ND	1.24	1.12	1.00	282844-4
7.62mm Centerline, 15.2mm Profile — With Interlock										
2	15.24	300	15	12 ~ 30	Green	A98347-ND	.61	.55	.49	282845-2
3	22.86	300	15	12 ~ 30	Green	A98095-ND	.92	.83	.74	282845-3
10.0mm Centerline, 19.0mm Profile — With Interlock										
2	15.0	600	20	12 ~ 30	Green	A98113-ND	.74	.67	.60	282858-2
3	25.0	600	20	12 ~ 30	Green	A98114-ND	1.09	.99	.88	282858-3
4	35.0	600	20	12 ~ 30	Green	A98115-ND	1.49	1.34	1.19	282858-4
5	45.0	600	20	12 ~ 30	Green	A98363-ND	1.85	1.67	1.48	282858-5
6	55.0	600	20	12 ~ 30	Green	A98116-ND	2.23	2.01	1.79	282858-6
8	75.0	600	20	12 ~ 30	Green	A98117-ND	2.95	2.66	2.36	282858-8
10	95.0	600	20	12 ~ 30	Green	A98118-ND	3.70	3.33	2.96	1-282858-0
12	115.0	600	20	12 ~ 30	Green	A98119-ND	4.43	3.99	3.54	1-282858-2
10.16mm Centerline, 15.2mm Profile — With Interlock										
2	15.24	600	15	12 ~ 30	Green	A98084-ND	.63	.58	.51	282843-2
3	25.40	600	15	12 ~ 30	Green	A98085-ND	.96	.87	.77	282843-3
4	35.56	600	15	12 ~ 30	Green	A98086-ND	1.31	1.18	1.05	282843-4
5	45.72	600	15	12 ~ 30	Green	A98087-ND	1.59	1.44	1.28	282843-5
6	55.88	600	15	12 ~ 30	Green	A98088-ND	1.93	1.74	1.55	282843-6
8	76.20	600	15	12 ~ 30	Green	A98089-ND	2.58	2.32	2.06	282843-8
10	96.52	600	15	12 ~ 30	Green	A98090-ND	3.23	2.91	2.58	1-282843-0
12	116.84	600	15	12 ~ 30	Green	A98091-ND	3.85	3.47	3.08	1-282843-2

Board Mount – Multi-Level Stacking (1st and 2nd Level)

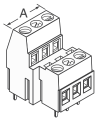

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 25.2mm Profile — With Interlock										
2	10.0	300	15	12 ~ 30	Green	A98120-ND	1.67	1.51	1.34	282888-2
3	15.0	300	15	12 ~ 30	Green	A98121-ND	2.55	2.30	2.04	282888-3
5.08mm Centerline, 25.2mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98450-ND	1.67	1.51	1.34	796692-2
3	15.24	300	15	12 ~ 30	Green	A98266-ND	2.50	2.25	2.00	796692-3
4	20.32	300	15	12 ~ 30	Green	A98267-ND	3.40	3.06	2.72	796692-4
5	25.40	300	15	12 ~ 30	Green	A98268-ND	4.25	3.83	3.40	796692-5
6	30.48	300	15	12 ~ 30	Green	A98269-ND	5.10	4.59	4.08	796692-6
8	40.64	300	15	12 ~ 30	Green	A98270-ND	6.80	6.12	5.44	796692-8
10	50.80	300	15	12 ~ 30	Green	A98271-ND	8.50	7.65	6.80	1-796692-0
12	60.96	300	15	12 ~ 30	Green	A98272-ND	10.23	9.21	8.18	1-796692-2

Board Mount – Top Wire Entry (Right Angle)

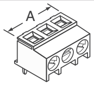

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 8.2mm Profile — With Interlock										
2	10.0	300	10	16 ~ 30	Green	A98369-ND	.46	.42	.37	284093-2
3	15.0	300	10	16 ~ 30	Green	A98154-ND	.65	.59	.52	284093-3
4	20.0	300	10	16 ~ 30	Green	A98370-ND	.89	.81	.72	284093-4
5	25.0	300	10	16 ~ 30	Green	A98155-ND	1.09	.99	.88	284093-5
6	30.0	300	10	16 ~ 30	Green	A98371-ND	1.34	1.21	1.07	284093-6
8	40.0	300	10	16 ~ 30	Green	A98156-ND	1.74	1.57	1.40	284093-8
10	50.0	300	10	16 ~ 30	Green	A98157-ND	2.21	2.00	1.78	1-284093-0
12	60.0	300	10	16 ~ 30	Green	A98158-ND	2.65	2.39	2.12	1-284093-2
5.08mm Centerline, 9.0mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98352-ND	.58	.53	.47	282851-2
3	15.24	300	15	12 ~ 30	Green	A98353-ND	.88	.79	.71	282851-3
4	20.32	300	15	12 ~ 30	Green	A98100-ND	1.17	1.06	.94	282851-4
5	25.40	300	15	12 ~ 30	Green	A98101-ND	1.47	1.33	1.18	282851-5
6	30.48	300	15	12 ~ 30	Green	A98102-ND	1.73	1.56	1.39	282851-6
8	40.64	300	15	12 ~ 30	Green	A98354-ND	2.33	2.10	1.86	282851-8
10	50.80	300	15	12 ~ 30	Green	A98103-ND	2.93	2.64	2.34	1-282851-0
12	60.96	300	15	12 ~ 30	Green	A98104-ND	3.50	3.15	2.80	1-282851-2

(Continued)

Board Mount – Wire Entry 35° Angle

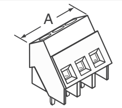

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.0mm Centerline, 15.0mm Profile — With Interlock										
2	10.0	300	15	12 ~ 30	Black	A98442-ND	.65	.59	.52	796689-2
3	15.0	300	15	12 ~ 30	Black	A98252-ND	.97	.88	.78	796689-3
4	20.0	300	15	12 ~ 30	Black	A98255-ND	1.32	1.20	1.06	796689-4
5	25.0	300	15	12 ~ 30	Black	A98443-ND	1.63	1.47	1.31	796689-5
6	30.0	300	15	12 ~ 30	Black	A98258-ND	1.98	1.79	1.59	796689-6
8	40.0	300	15	12 ~ 30	Black	A98259-ND	2.65	2.39	2.12	796689-8
10	50.0	300	15	12 ~ 30	Black	A98444-ND	3.28	2.95	2.62	1-796689-0
12	60.0	300	15	12 ~ 30	Black	A98262-ND	3.95	3.56	3.16	1-796689-2
2	10.0	300	15	12 ~ 30	Black	A98445-ND	.65	.59	.52	796690-2
3	15.0	300	15	12 ~ 30	Black	A98446-ND	.97	.88	.78	796690-3
4	20.0	300	15	12 ~ 30	Green	A98447-ND	1.32	1.20	1.06	796690-4
5	25.0	300	15	12 ~ 30	Green	A98263-ND	1.63	1.47	1.31	796690-5
6	30.0	300	15	12 ~ 30	Green	A98448-ND	1.98	1.79	1.59	796690-6
8	40.0	300	15	12 ~ 30	Green	A98264-ND	2.65	2.39	2.12	796690-8
10	50.0	300	15	12 ~ 30	Green	A98265-ND	3.28	2.95	2.62	1-796690-0
12	60.0	300	15	12 ~ 30	Green	A98449-ND	3.95	3.56	3.16	1-796690-2
5.08mm Centerline, 15.0mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98348-ND	.65	.59	.52	282847-2
3	15.24	300	15	12 ~ 30	Green	A98349-ND	.97	.88	.78	282847-3
4	20.32	300	15	12 ~ 30	Green	A98350-ND	1.32	1.20	1.06	282847-4
5	25.40	300	15	12 ~ 30	Green	A98351-ND	1.63	1.47	1.31	282847-5
6	30.48	300	15	12 ~ 30	Green	A98096-ND	1.98	1.79	1.59	282847-6
8	40.64	300	15	12 ~ 30	Green	A98097-ND	2.65	2.39	2.12	282847-8
10	50.80	300	15	12 ~ 30	Green	A98098-ND	3.28	2.95	2.62	1-282847-0
12	60.96	300	15	12 ~ 30	Green	A98099-ND	3.95	3.56	3.16	1-282847-2

High Current PCB Mount – Side Wire Entry

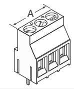

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
6.35mm Centerline, 21.5mm Profile — With Interlock										
2	12.70	300	30	10 ~ 24	Green	A98275-ND	1.22	1.10	.98	796740-2
3	19.05	300	30	10 ~ 24	Green	A98276-ND	1.65	1.49	1.32	796740-3
9.52mm Centerline, 21.5mm Profile — With Interlock										
2	19.04	600	30	10 ~ 24	Green	A98273-ND	1.36	1.23	1.10	796739-2
3	28.56	600	30	10 ~ 24	Green	A98274-ND	2.04	1.84	1.64	796739-3
15.0mm Centerline, 39.0mm Profile — With Interlock										
2	30.00	600	125	1 ~ 20	Green	A99381-ND	5.68	5.11	4.54	1986242-2
3	45.00	600	125	1 ~ 20	Green	A99382-ND	8.03	7.23	6.42	1986242-3
4	60.00	600	125	1 ~ 20	Green	A99383-ND	11.00	9.90	8.80	1986242-4

Wire Protector Version – Side Wire Entry

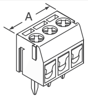

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.5mm Centerline, 8.3mm Profile, PCB Mount — With Interlock										
2	7.00	250	7	18 ~ 26	Blue	A98036-ND	.28	.26	.23	1776275-2
3	10.50	250	7	18 ~ 26	Blue	A98037-ND	.45	.41	.36	1776275-3
4	14.00	250	7	18 ~ 26	Blue	A98038-ND	.62	.56	.50	1776275-4
5	17.50	250	7	18 ~ 26	Blue	A98039-ND	.77	.70	.62	1776275-5
6	21.00	250	7	18 ~ 26	Blue	A98040-ND	.89	.81	.72	1776275-6
8	28.00	250	7	18 ~ 26	Blue	A98041-ND	1.38	1.24	1.11	1776275-8
10	35.00	250	7	18 ~ 26	Blue	A98042-ND	1.51	1.37	1.21	1-1776275-0
12	42.00	250	7	18 ~ 26	Blue	A98043-ND	1.81	1.63	1.45	1-1776275-2
5.0mm Centerline, 10.0mm Profile, PCB Mount — With Interlock										
2	10.00	250	10	14 ~ 22	Blue	A97996-ND	.34	.31	.27	1776244-2
3	15.00	250	10	14 ~ 22	Blue	A97997-ND	.59	.54	.48	1776244-3
4	20.00	250	10	14 ~ 22	Blue	A97998-ND	.73	.66	.59	1776244-4
5	25.00	250	10	14 ~ 22	Blue	A97999-ND	.96	.87	.77	1776244-5
6	30.00	250	10	14 ~ 22	Blue	A98000-ND	1.12	1.01	.90	1776244-6
8	40.00	250	10	14 ~ 22	Blue	A98001-ND	1.50	1.35	1.20	1776244-8
10	50.00	250	10	14 ~ 22	Blue	A98002-ND	1.89	1.71	1.52	1-1776244-0
12	60.00	250	10	14 ~ 22	Blue	A98003-ND	2.25	2.03	1.80	1-1776244-2

Wire Protector Version – Wire Entry 45° Angle

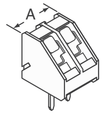

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.0mm Centerline, 12.0mm Profile — With Interlock										
2	10.00	250	10	14 ~ 22	Blue	A98004-ND	.66	.60	.53	1776252-2
3	15.00	250	10	14 ~ 22	Blue	A98005-ND	.93	.85	.75	1776252-3
4	20.00	250	10	14 ~ 22	Blue	A98006-ND	1.31	1.18	1.05	1776252-4
5	25.00	250	10	14 ~ 22	Blue	A98007-ND	1.63	1.47	1.31	1776252-5
6	30.00	250	10	14 ~ 22	Blue	A98008-ND	1.98	1.79	1.59	1776252-6
8	40.00	250	10	14 ~ 22	Blue	A98009-ND	2.55	2.30	2.04	1776252-8
10	50.00	250	10	14 ~ 22	Blue	A98010-ND	3.25	2.93	2.60	1-1776252-0
12	60.00	250	10	14 ~ 22	Blue	A98011-ND	3.88	3.49	3.10	1-1776252-2

Screwless Connectors

Fig. 1

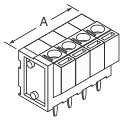

Fig. 2

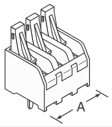

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
Board Mount, 5.0mm Centerline, 13.9mm Profile, Top Wire Entry — Spring											
1	2	12.50	300	10	14 ~ 22	Green	A98012-ND	1.01	.92	.81	1776259-2
	3	17.50	300	10	14 ~ 22	Green	A98013-ND	1.51	1.37	1.21	1776259-3
	4	22.50	300	10	14 ~ 22	Green	A98014-ND	2.04	1.84	1.64	1776259-4
	5	27.50	300	10	14 ~ 22	Green	A98015-ND	2.55	2.30	2.04	1776259-5
	6	32.50	300	10	14 ~ 22	Green	A98016-ND	3.05	2.75	2.44	1776259-6
	8	42.50	300	10	14 ~ 22	Green	A98017-ND	4.10	3.69	3.28	1776259-8
	10	52.20	300	10	14 ~ 22	Green	A98018-ND	5.75	5.18	4.60	1-1776259-0
	12	62.50	300	10	14 ~ 22	Green	A98019-ND	6.93	6.24	5.54	1-1776259-2
Board Mount, 5.08mm Centerline, 13.9mm Profile, Top Wire Entry — Spring											
1	2	12.66	300	10	14 ~ 22	Green	A98020-ND	1.01	.92	.81	1776260-2
	3	17.74	300	10	14 ~ 22	Green	A98021-ND	1.51	1.37	1.21	1776260-3
	4	22.82	300	10	14 ~ 22	Green	A98022-ND	2.04	1.84	1.64	1776260-4
	5	27.90	300	10	14 ~ 22	Green	A98023-ND	2.55	2.30	2.04	1776260-5
	6	32.98	300	10	14 ~ 22	Green	A98024-ND	3.05	2.75	2.44	1776260-6
	8	43.14	300	10	14 ~ 22	Green	A98025-ND	4.10	3.69	3.28	1776260-8
	10	53.30	300	10	14 ~ 22	Green	A98026-ND	6.00	5.40	4.80	1-1776260-0
	12	63.46	300	10	14 ~ 22	Green	A98027-ND	7.23	6.51	5.78	1-1776260-2
Board Mount, 5.08mm Centerline, 18.8mm Profile, Side Wire Entry											
2	2	10.16	300	10	18 ~ 22	Black	A97958-ND	.86	.78	.70	1437671-1
	3	15.24	300	10	18 ~ 22	Black	A97959-ND	1.22	1.10	.98	1437671-4
	4	20.32	300	10	18 ~ 22	Black	A97960-ND	1.59	1.44	1.28	1437671-6
	5	25.40	300	10	18 ~ 22	Black	A97961-ND	2.04	1.84	1.64	1437671-7
	6	30.48	300	10	18 ~ 22	Black	A97962-ND	2.43	2.19	1.94	1437671-9
	8	40.64	300	10	18 ~ 22	Black	A97963-ND	5.78	5.20	4.62	1-1437671-1
	10	50.80	300	10	18 ~ 22	Black	A97964-ND	4.00	3.60	3.20	1-1437671-3
	12	60.96	300	10	18 ~ 22	Black	A98314-ND	4.80	4.32	3.84	1-1437671-5

Terminal Blocks – Two Piece Connectors

Plugs

Fig. 1

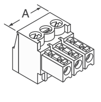

Fig. 2

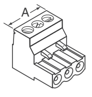

Fig. 3

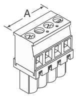

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.5mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.0	300	11	14 ~ 30	Green	A98173-ND	.96	.87	.77	284506-2
	3	10.5	300	11	14 ~ 30	Green	A98374-ND	1.47	1.33	1.18	284506-3
	4	14.0	300	11	14 ~ 30	Green	A98375-ND	1.96	1.77	1.57	284506-4
	5	17.5	300	11	14 ~ 30	Green	A98376-ND	2.43	2.19	1.94	284506-5
	6	21.0	300	11	14 ~ 30	Green	A98377-ND	2.93	2.64	2.34	284506-6
	8	28.0	300	11	14 ~ 30	Green	A98174-ND	3.90	3.51	3.12	284506-8
	10	35.0	300	11	14 ~ 30	Green	A98378-ND	4.88	4.39	3.90	1-284506-0
	12	42.0	300	11	14 ~ 30	Green	A98379-ND	5.85	5.27	4.68	1-284506-2

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.81mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.62	300	11	14 ~ 30	Green	A98175-ND	.96	.87	.77	284507-2
	3	11.43	300	11	14 ~ 30	Green	A98380-ND	1.47	1.33	1.18	284507-3
	4	15.24	300	11	14 ~ 30	Green	A98381-ND	1.96	1.77	1.57	284507-4
	5	19.05	300	11	14 ~ 30	Green	A98382-ND	2.43	2.19	1.94	284507-5
	6	22.86	300	11	14 ~ 30	Green	A98383-ND	2.93	2.64	2.34	284507-6
	8	30.48	300	11	14 ~ 30	Green	A98176-ND	3.90	3.51	3.12	284507-8
	10	38.10	300	11	14 ~ 30	Green	A98384-ND	4.88	4.39	3.90	1-284507-0
	12	45.72	300	11	14 ~ 30	Green	A98177-ND	5.85	5.27	4.68	1-284507-2
5.0mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	10.00	300	15	12 ~ 30	Green	A98241-ND	.86	.78	.70	796640-2
	3	15.00	300	15	12 ~ 30	Green	A98242-ND	1.31	1.18	1.05	796640-3
	4	20.00	300	15	12 ~ 30	Green	A98243-ND	1.70	1.54	1.37	796640-4
	5	25.00	300	15	12 ~ 30	Green	A98429-ND	2.19	1.97	1.75	796640-5
	6	30.00	300	15	12 ~ 30	Green	A98244-ND	2.60	2.34	2.08	796640-6
	8	40.00	300	15	12 ~ 30	Green	A98245-ND	3.45	3.11	2.76	796640-8
	10	50.00	300	15	12 ~ 30	Green	A98430-ND	4.03	3.63	3.22	1-796640-0
	12	60.00	300	15	12 ~ 30	Green	A98246-ND	5.15	4.64	4.12	1-796640-2
5.08mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	10.16	300	15	12 ~ 30	Green	A98223-ND	.86	.78	.70	796634-2
	3	15.24	300	15	12 ~ 30	Green	A98224-ND	1.28	1.15	1.02	796634-3
	4	20.32	300	15	12 ~ 30	Green	A98225-ND	1.70	1.54	1.37	796634-4
	5	25.40	300	15	12 ~ 30	Green	A98226-ND	2.13	1.92	1.71	796634-5

(Continued)

Plugs *(Cont.)*

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
2	6	30.48	300	15	12 ~ 30	Green	A98227-ND	2.60	2.34	2.08	796634-6
	8	40.64	300	15	12 ~ 30	Green	A98228-ND	3.45	3.11	2.76	796634-8
	10	50.80	300	15	12 ~ 30	Green	A98229-ND	4.30	3.87	3.44	1-796634-0
	12	60.96	300	15	12 ~ 30	Green	A98230-ND	5.15	4.64	4.12	1-796634-2
5.0mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.0	300	15	12 ~ 30	Green	A98122-ND	1.08	.98	.87	284040-2
	3	15.0	300	15	12 ~ 30	Green	A98364-ND	1.59	1.44	1.28	284040-3
	4	20.0	300	15	12 ~ 30	Green	A98123-ND	2.13	1.92	1.71	284040-4
	5	25.0	300	15	12 ~ 30	Green	A98124-ND	2.70	2.43	2.16	284040-5
	6	30.0	300	15	12 ~ 30	Green	A98365-ND	3.23	2.91	2.58	284040-6
	8	40.0	300	15	12 ~ 30	Green	A98366-ND	4.30	3.87	3.44	284040-8
	10	50.0	300	15	12 ~ 30	Green	A98126-ND	5.38	4.84	4.30	1-284040-0
	12	60.0	300	15	12 ~ 30	Green	A98127-ND	6.45	5.81	5.16	1-284040-2
5.08mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.16	300	15	12 ~ 30	Green	A98128-ND	1.08	.98	.87	284041-2
	3	15.24	300	15	12 ~ 30	Green	A98129-ND	1.59	1.44	1.28	284041-3
	4	20.32	300	15	12 ~ 30	Green	A98367-ND	2.13	1.92	1.71	284041-4
	5	25.40	300	15	12 ~ 30	Green	A98130-ND	2.70	2.43	2.16	284041-5
	6	30.48	300	15	12 ~ 30	Green	A98131-ND	3.23	2.91	2.58	284041-6
	8	40.64	300	15	12 ~ 30	Green	A98132-ND	4.30	3.87	3.44	284041-8
	10	50.80	300	15	12 ~ 30	Green	A98133-ND	5.38	4.84	4.30	1-284041-0
	12	60.96	300	15	12 ~ 30	Green	A98134-ND	6.45	5.81	5.16	1-284041-2

Plugs With Screw Flanges

Fig. 1

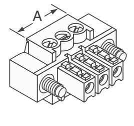

Fig. 2

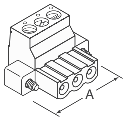

Fig. 3

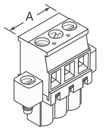

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
3.5mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.6	300	11	14 ~ 30	Green	A98385-ND	1.23	1.11	.99	284510-2
	3	11.1	300	11	14 ~ 30	Green	A98386-ND	1.82	1.64	1.46	284510-3
	4	14.6	300	11	14 ~ 30	Green	A98387-ND	2.43	2.19	1.94	284510-4
	5	18.1	300	11	14 ~ 30	Green	A98388-ND	3.00	2.70	2.40	284510-5
	6	21.6	300	11	14 ~ 30	Green	A98389-ND	3.63	3.27	2.90	284510-6
	8	28.6	300	11	14 ~ 30	Green	A98390-ND	4.85	4.37	3.88	284510-8
	10	35.6	300	11	14 ~ 30	Green	A98178-ND	6.05	5.45	4.84	1-284510-0
	12	42.6	300	11	14 ~ 30	Green	A98179-ND	7.23	6.51	5.78	1-284510-2
3.81mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	8.22	300	11	14 ~ 30	Green	A98391-ND	1.23	1.11	.99	284511-2
	3	12.03	300	11	14 ~ 30	Green	A98392-ND	1.82	1.64	1.46	284511-3
	4	15.84	300	11	14 ~ 30	Green	A98180-ND	2.43	2.19	1.94	284511-4
	5	19.65	300	11	14 ~ 30	Green	A98393-ND	3.00	2.70	2.40	284511-5
	6	23.46	300	11	14 ~ 30	Green	A98394-ND	3.63	3.27	2.90	284511-6
	8	31.08	300	11	14 ~ 30	Green	A98395-ND	4.85	4.37	3.88	284511-8
	10	38.70	300	11	14 ~ 30	Green	A98181-ND	6.05	5.45	4.84	1-284511-0
	12	46.32	300	11	14 ~ 30	Green	A98182-ND	7.23	6.51	5.78	1-284511-2
5.0mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	19.8	300	15	12 ~ 30	Green	A98277-ND	1.15	1.04	.92	796858-2
	3	24.8	300	15	12 ~ 30	Green	A98278-ND	1.69	1.52	1.35	796858-3
	4	29.8	300	15	12 ~ 30	Green	A98279-ND	2.28	2.05	1.82	796858-4
	5	34.8	300	15	12 ~ 30	Green	A98280-ND	2.85	2.57	2.28	796858-5
	6	39.8	300	15	12 ~ 30	Green	A98281-ND	3.43	3.09	2.74	796858-6
	8	49.8	300	15	12 ~ 30	Green	A98282-ND	4.58	4.12	3.66	796858-8
5.08mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	19.96	300	15	12 ~ 30	Green	A98283-ND	1.15	1.04	.92	796859-2
	3	25.04	300	15	12 ~ 30	Green	A98284-ND	1.69	1.52	1.35	796859-3
	4	30.12	300	15	12 ~ 30	Green	A98451-ND	2.28	2.05	1.82	796859-4
	5	35.20	300	15	12 ~ 30	Green	A98285-ND	2.85	2.57	2.28	796859-5
	6	40.28	300	15	12 ~ 30	Green	A98286-ND	3.43	3.09	2.74	796859-6
	8	50.44	300	15	12 ~ 30	Green	A98287-ND	4.58	4.12	3.66	796859-8
	10	60.60	300	15	12 ~ 30	Green	A98452-ND	5.68	5.11	4.54	1-796859-0
	12	70.76	300	15	12 ~ 30	Green	A98288-ND	6.83	6.15	5.46	1-796859-2
5.08mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.16	300	15	12 ~ 30	Green	A98289-ND	1.38	1.24	1.11	796861-2
	3	15.24	300	15	12 ~ 30	Green	A98290-ND	2.07	1.86	1.66	796861-3
	4	20.32	300	15	12 ~ 30	Green	A98291-ND	2.75	2.48	2.20	796861-4
	5	25.40	300	15	12 ~ 30	Green	A98292-ND	3.43	3.09	2.74	796861-5
	6	30.48	300	15	12 ~ 30	Green	A98293-ND	4.10	3.69	3.28	796861-6
	8	40.64	300	15	12 ~ 30	Green	A98453-ND	5.48	4.93	4.38	796861-8
	10	50.80	300	15	12 ~ 30	Green	A98294-ND	6.83	6.15	5.46	1-796861-0
	12	60.96	300	15	12 ~ 30	Green	A98295-ND	8.23	7.41	6.58	1-796861-2

Multi-Directional Connectors

Fig. 1

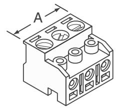

Fig. 2

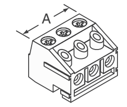

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
5.0mm Centerline, 11.5mm Profile, 90°/180° Plug, Rising Cage Style											
1	2	10.00	300	12	14 ~ 30	Green	A98327-ND	.78	.71	.63	282830-2
	3	15.00	300	12	14 ~ 30	Green	A98328-ND	1.16	1.05	.93	282830-3
	4	20.00	300	12	14 ~ 30	Green	A98072-ND	1.54	1.39	1.24	282830-4
	5	25.00	300	12	14 ~ 30	Green	A98073-ND	1.93	1.74	1.55	282830-5
	6	30.00	300	12	14 ~ 30	Green	A98329-ND	2.30	2.07	1.84	282830-6
	8	40.00	300	12	14 ~ 30	Green	A98330-ND	3.08	2.77	2.46	282830-8

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
1	10	50.00	300	12	14 ~ 30	Green	A98331-ND	3.88	3.49	3.10	1-282830-0
	12	60.00	300	12	14 ~ 30	Green	A98332-ND	4.65	4.19	3.72	1-282830-2
5.0mm Centerline, 11.0mm Profile, 90°/180° Plug, Wire Protector Style											
2	2	10.0	300	10	16-24	Blue	A98028-ND	.63	.58	.51	1776263-2
	3	15.0	300	10	16-24	Blue	A98029-ND	.96	.87	.77	1776263-3
	4	20.0	300	10	16-24	Blue	A98030-ND	1.28	1.16	1.03	1776263-4
	5	25.0	300	10	16-24	Blue	A98031-ND	1.59	1.44	1.28	1776263-5
	6	30.0	300	10	16-24	Blue	A98032-ND	1.93	1.74	1.55	1776263-6
	8	40.0	300	10	16-24	Blue	A98033-ND	2.58	2.32	2.06	1776263-8
	10	50.0	300	10	16-24	Blue	A98034-ND	3.20	2.88	2.56	1-1776263-0
	12	60.0	300	10	16-24	Blue	A98035-ND	3.83	3.45	3.06	1-1776263-2

Pivot Block Connectors

Fig. 1

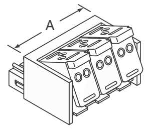

Fig. 2

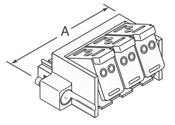

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
3.5mm Centerline, 21.7mm Profile — Insulation Displacement											
1	2	9.00	250	5	22 ~ 24	Green	A98044-ND	2.25	2.03	1.80	1776282-2
	3	12.50	250	5	22 ~ 24	Green	A98045-ND	2.60	2.34	2.08	1776282-3
	4	16.00	250	5	22 ~ 24	Green	A98046-ND	2.93	2.64	2.34	1776282-4
	5	19.50	250	5	22 ~ 24	Green	A98047-ND	3.28	2.95	2.62	1776282-5
	6	23.00	250	5	22 ~ 24	Green	A98048-ND	3.73	3.36	2.98	1776282-6
	8	30.00	250	5	22 ~ 24	Green	A98049-ND	4.43	3.99	3.54	1776282-8
	10	37.00	250	5	22 ~ 24	Green	A98050-ND	5.23	4.71	4.18	1-1776282-0
	12	44.00	250	5	22 ~ 24	Green	A98051-ND	5.95	5.36	4.76	1-1776282-2
3.5mm Centerline, 21.7mm Profile, With Screw Flange — Insulation Displacement											
2	2	17.00	250	5	22 ~ 24	Green	A98052-ND	2.40	2.16	1.92	1776283-2
	3	20.50	250	5	22 ~ 24	Green	A98053-ND	2.70	2.43	2.16	1776283-3
	4	24.00	250	5	22 ~ 24	Green	A98054-ND	3.13	2.82	2.50	1776283-4
	5	27.50	250	5	22 ~ 24	Green	A98055-ND	3.40	3.06	2.72	1776283-5
	6	31.00	250	5	22 ~ 24	Green	A98056-ND	3.48	3.13	2.78	1776283-6
	8	38.00	250	5	22 ~ 24	Green	A98057-ND	4.58	4.12	3.66	1776283-8
	10	45.00	250	5	22 ~ 24	Green	A98058-ND	5.23	4.71	4.18	1-1776283-0
	12	52.00	250	5	22 ~ 24	Green	A98059-ND	6.10	5.49	4.88	1-1776283-2

Headers Without Flanges

Fig. 1

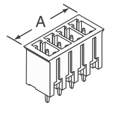

Fig. 2

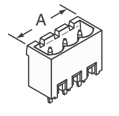

Fig. 3

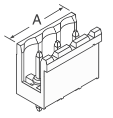

Fig. 4

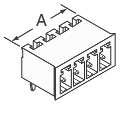

Fig. 5

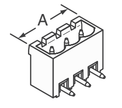

Fig. 6

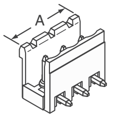

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
3.5mm Centerline, 9.2mm Profile, Straight Closed End Header										
1	2	9.0	300	11	Green	A98188-ND	.43	.39	.35	284514-2
	3	12.5	300	11	Green	A98407-ND	.61	.55	.49	284514-3
	4	16.0	300	11	Green	A98189-ND	.81	.73	.65	284514-4
	5	19.5	300	11	Green	A98408-ND	1.00	.90	.80	284514-5
	6	23.0	300	11	Green	A98409-ND	1.23	1.11	.99	284514-6
	8	30.0	300	11	Green	A98190-ND	1.59	1.44	1.28	284514-8
	10	37.0	300	11	Green	A98191-ND	2.03	1.83	1.62	1-284514-0
	12	44.0	300	11	Green	A98192-ND	2.43	2.19	1.94	1-284514-2
3.81mm Centerline, 9.2mm Profile, Straight Closed End Header										
1	2	9.91	300	11	Green	A98410-ND	.43	.39	.35	284517-2
	3	13.72	300	11	Green	A98411-ND	.61	.55	.49	284517-3
	4	17.53	300	11	Green	A98202-ND	.81	.73	.65	284517-4
	5	21.34	300	11	Green	A98412-ND	1.00	.90	.80	284517-5
	6	25.15	300	11	Green	A98203-ND	1.23	1.11	.99	284517-6
	8	32.77	300	11	Green	A98204-ND	1.59	1.44	1.28	284517-8
	10	40.39	300	11	Green	A98205-ND	2.03	1.83	1.62	1-284517-0
	12	48.01	300	11	Green	A98206-ND	2.43	2.19	1.94	1-284517-2
5.0mm Centerline, 12.0mm Profile, Straight Closed End Header										
2	2	12.0	300	15	Green	A98431-ND	.41	.37	.33	796642-2
	3	17.0	300	15	Green	A98432-ND	.57	.51	.46	796642-3
	4	22.0	300	15	Green	A98433-ND	.74	.67	.60	796642-4
	5	27.0	300	15	Green	A98434-ND	.93	.84	.75	796642-5
	6	32.0	300	15	Green	A98435-ND	1.13	1.03	.91	796642-6
	8	42.0	300	15	Green	A98436-ND	1.51	1.37	1.21	796642-8
	10	52.0	300	15	Green	A98247-ND	1.89	1.71	1.52	1-796642-0
	12	62.0	300	15	Green	A98437-ND	2.25	2.03	1.80	1-796642-2
5.08mm Centerline, 12.0mm Profile, Straight Closed End Header										
2	2	11.98	300	15	Green	A98231-ND	.41	.37	.33	796636-2
	3	17.06	300	15	Green	A98423-ND	.57	.51	.46	796636-3
	4	22.14	300	15	Green	A98232-ND	.74	.67	.60	796636-4
	5	27.22	300	15	Green	A98424-ND	.93	.84	.75	796636-5
	6	32.30	300	15	Green	A98233-ND	1.13	1.03	.91	796636-6
	8	42.46	300	15	Green	A98234-ND	1.51	1.37	1.21	796636-8
	10	52.62	300	15	Green	A98425-ND	1.89	1.71	1.52	1-796636-0
	12	62.78	300	15	Green	A98426-ND	2.25	2.03	1.80	1-796636-2

(Continued)

Headers Without Flanges *(Cont.)*

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 12.0mm Profile, Straight Open End Header										
3	2	10.0	300	15	Green	A98315-ND	.39	.36	.32	282822-2
	3	15.0	300	15	Green	A98316-ND	.55	.50	.45	282822-3
	4	20.0	300	15	Green	A98317-ND	.73	.66	.59	282822-4
	5	25.0	300	15	Green	A98318-ND	.90	.82	.73	282822-5
	6	30.0	300	15	Green	A98068-ND	1.09	.99	.88	282822-6
	8	40.0	300	15	Green	A98319-ND	1.46	1.32	1.17	282822-8
	10	50.0	300	15	Green	A98320-ND	1.82	1.64	1.46	1-282822-0
	12	60.0	300	15	Green	A98069-ND	2.19	1.97	1.75	1-282822-2
5.08mm Centerline, 12.0mm Profile, Straight Open End Header										
3	2	10.16	300	15	Green	A98321-ND	.39	.36	.32	282825-2
	3	15.24	300	15	Green	A98322-ND	.55	.50	.45	282825-3
	4	20.32	300	15	Green	A98323-ND	.73	.66	.59	282825-4
	5	25.40	300	15	Green	A98324-ND	.90	.82	.73	282825-5
	6	30.48	300	15	Green	A98325-ND	1.09	.99	.88	282825-6
	8	40.64	300	15	Green	A98326-ND	1.46	1.32	1.17	282825-8
	10	50.80	300	15	Green	A98070-ND	1.82	1.64	1.46	1-282825-0
	12	60.96	300	15	Green	A98071-ND	2.19	1.97	1.75	1-282825-2
3.5mm Centerline, 9.2mm Profile, Right Angle Closed End Header										
4	2	9.0	300	11	Green	A98396-ND	.43	.39	.35	284512-2
	3	12.5	300	11	Green	A98397-ND	.61	.55	.49	284512-3
	4	16.0	300	11	Green	A98398-ND	.81	.73	.65	284512-4
	5	19.5	300	11	Green	A98399-ND	1.00	.90	.80	284512-5
	6	23.0	300	11	Green	A98183-ND	1.23	1.11	.99	284512-6
	8	30.0	300	11	Green	A98184-ND	1.59	1.44	1.28	284512-8
	10	37.0	300	11	Green	A98400-ND	2.03	1.83	1.62	1-284512-0
	12	44.0	300	11	Green	A98185-ND	2.43	2.19	1.94	1-284512-2
3.81mm Centerline, 9.2mm Profile, Right Angle Closed End Header										
4	2	9.91	300	11	Green	A98401-ND	.43	.39	.35	284513-2
	3	13.72	300	11	Green	A98402-ND	.61	.55	.49	284513-3
	4	17.53	300	11	Green	A98403-ND	.81	.73	.65	284513-4
	5	21.34	300	11	Green	A98404-ND	1.00	.90	.80	284513-5
	6	25.15	300	11	Green	A98405-ND	1.23	1.11	.99	284513-6
	8	32.77	300	11	Green	A98406-ND	1.59	1.44	1.28	284513-8
	10	40.39	300	11	Green	A98186-ND	2.03	1.83	1.62	1-284513-0
	12	48.01	300	11	Green	A98187-ND	2.43	2.19	1.94	1-284513-2
5.0mm Centerline, 12.0mm Profile, Right Angle Closed End Header										
5	2	12.0	300	15	Green	A98248-ND	.41	.37	.33	796644-2
	3	17.0	300	15	Green	A98249-ND	.57	.51	.46	796644-3
	4	22.0	300	15	Green	A98250-ND	.74	.67	.60	796644-4
	5	27.0	300	15	Green	A98438-ND	.89	.81	.72	796644-5
	6	32.0	300	15	Green	A98251-ND	1.13	1.03	.91	796644-6
	8	42.0	300	15	Green	A98439-ND	1.51	1.37	1.21	796644-8
	10	52.0	300	15	Green	A98440-ND	1.77	1.60	1.42	1-796644-0
	12	62.0	300	15	Green	A98441-ND	2.25	2.03	1.80	1-796644-2
5.08mm Centerline, 12.0mm Profile, Right Angle Closed End Header										
5	2	11.98	300	15	Green	A98235-ND	.41	.37	.33	796638-2
	3	17.06	300	15	Green	A98236-ND	.57	.51	.46	796638-3
	4	22.14	300	15	Green	A98237-ND	.74	.67	.60	796638-4
	5	27.22	300	15	Green	A98238-ND	.93	.84	.75	796638-5
	6	32.30	300	15	Green	A98239-ND	1.13	1.03	.91	796638-6
	8	42.46	300	15	Green	A98240-ND	1.51	1.37	1.21	796638-8
	10	52.62	300	15	Green	A98427-ND	1.89	1.71	1.52	1-796638-0
	12	62.78	300	15	Green	A98428-ND	2.25	2.03	1.80	1-796638-2
5.0mm Centerline, 12.0mm Profile, Right Angle Open End Header With Interlock										
6	2	10.0	300	15	Green	A98062-ND	.39	.36	.32	282811-2
	3	15.0	300	15	Green	A98063-ND	.55	.50	.45	282811-3
	4	20.0	300	15	Green	A98064-ND	.73	.66	.59	282811-4
5.08mm Centerline, 12.0mm Profile, Right Angle Open End Header With Interlock										
6	2	10.16	300	15	Green	A98065-ND	.39	.36	.32	282814-2
	3	15.24	300	15	Green	A98066-ND	.55	.50	.45	282814-3
	4	20.32	300	15	Green	A98067-ND	.73	.66	.59	282814-4

Headers With Threaded Flanges

Fig. 1

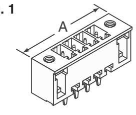

Fig. 2

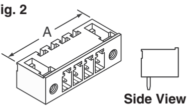

Fig. 3

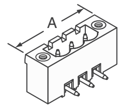

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
3.5mm Centerline, 9.2mm Profile, Straight Header										
1	2	17.3	300	11	Green	A98193-ND	.54	.49	.44	284516-2
	3	20.8	300	11	Green	A98194-ND	.80	.72	.64	284516-3
	4	24.3	300	11	Green	A98195-ND	1.07	.96	.86	284516-4
	5	27.8	300	11	Green	A98196-ND	1.34	1.21	1.07	284516-5
	6	31.3	300	11	Green	A98197-ND	1.58	1.43	1.27	284516-6
	8	38.3	300	11	Green	A98198-ND	2.12	1.91	1.70	284516-8
	10	45.3	300	11	Green	A98199-ND	2.68	2.41	2.14	1-284516-0
	12	52.3	300	11	Green	A98200-ND	3.20	2.88	2.56	1-284516-2
3.81mm Centerline, 9.2mm Profile, Straight Header										
1	2	18.01	300	11	Green	A98207-ND	.54	.49	.44	284519-2
	3	21.82	300	11	Green	A98208-ND	.80	.72	.64	284519-3
	4	25.63	300	11	Green	A98209-ND	1.07	.96	.86	284519-4
	5	29.44	300	11	Green	A98210-ND	1.34	1.21	1.07	284519-5
	6	33.25	300	11	Green	A98212-ND	1.58	1.43	1.27	284519-6
	8	40.87	300	11	Green	A98213-ND	2.12	1.91	1.70	284519-8
	10	48.49	300	11	Green	A98214-ND	2.68	2.41	2.14	1-284519-0
	12	56.11	300	11	Green	A98215-ND	3.20	2.88	2.56	1-284519-2
5.08mm Centerline, 12.0mm Profile, Straight Header										
1	2	20.24	300	15	Green	A98307-ND	.51	.47	.42	796867-2
	3	25.32	300	15	Green	A98308-ND	.76	.68	.61	796867-3
	4	30.40	300	15	Green	A98457-ND	1.00	.90	.80	796867-4
	5	35.48	300	15	Green	A98309-ND	1.27	1.15	1.02	796867-5
	6	40.56	300	15	Green	A98310-ND	1.50	1.35	1.20	796867-6
	8	50.72	300	15	Green	A98311-ND	2.01	1.81	1.61	796867-8
	10	60.88	300	15	Green	A98312-ND	2.53	2.28	2.02	1-796867-0
	12	71.04	300	15	Green	A98313-ND	3.00	2.70	2.40	1-796867-2

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
3.5mm Centerline, 9.2mm Profile, Right Angle Header										
2	2	17.3	300	11	Green	A98413-ND	.54	.49	.44	284539-2
	3	20.8	300	11	Green	A98414-ND	.80	.72	.64	284539-3
	4	24.3	300	11	Green	A98415-ND	1.07	.96	.86	284539-4
	5	27.8	300	11	Green	A98416-ND	1.34	1.21	1.07	284539-5
	6	31.3	300	11	Green	A98417-ND	1.58	1.43	1.27	284539-6
	8	38.3	300	11	Green	A98418-ND	2.12	1.91	1.70	284539-8
	10	45.3	300	11	Green	A98419-ND	2.68	2.41	2.14	1-284539-0
	12	52.3	300	11	Green	A98216-ND	3.20	2.88	2.56	1-284539-2
3.81mm Centerline, 9.2mm Profile, Right Angle Header										
2	2	18.01	300	11	Green	A98217-ND	.54	.49	.44	284541-2
	3	21.82	300	11	Green	A98420-ND	.80	.72	.64	284541-3
	4	25.63	300	11	Green	A98218-ND	1.07	.96	.86	284541-4
	5	29.44	300	11	Green	A98219-ND	1.34	1.21	1.07	284541-5
	6	33.25	300	11	Green	A98421-ND	1.58	1.43	1.27	284541-6
	8	40.87	300	11	Green	A98422-ND	2.12	1.91	1.70	284541-8
	10	48.49	300	11	Green	A98221-ND	2.68	2.41	2.14	1-284541-0
	12	56.11	300	11	Green	A98222-ND	3.20	2.88	2.56	1-284541-2
5.0mm Centerline, 12.0mm Profile, Right Angle Header										
3	2	20.0	300	15	Green	A98296-ND	.53	.48	.43	796864-2
	3	25.0	300	15	Green	A98297-ND	.76	.68	.61	796864-3
	4	30.0	300	15	Green	A98298-ND	1.00	.90	.80	796864-4
	5	35.0	300	15	Green	A98299-ND	1.27	1.15	1.02	796864-5
	6	40.0	300	15	Green	A98300-ND	1.50	1.35	1.20	796864-6
	8	50.0	300	15	Green	A98301-ND	2.01	1.81	1.61	796864-8
5.08mm Centerline, 12.0mm Profile, Right Angle Header										
3	2	20.24	300	15	Green	A98302-ND	.51	.47	.42	796866-2
	3	25.32	300	15	Green	A98454-ND	.76	.68	.61	796866-3
	4	30.40	300	15	Green	A98303-ND	1.00	.90	.80	796866-4
	5	35.48	300	15	Green	A98304-ND	1.27	1.15	1.02	796866-5
	6	40.56	300	15	Green	A98305-ND	1.50	1.35	1.20	796866-6
	8	50.72	300	15	Green	A98455-ND	2.01	1.81	1.61	796866-8
	10	60.88	300	15	Green	A98456-ND	2.53	2.28	2.02	1-796866-0
	12	71.04	300	15	Green	A98306-ND	3.00	2.70	2.40	1-796866-2

Double Row Headers

Fig. 1

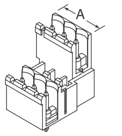

Fig. 2

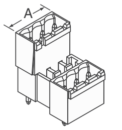

Fig. 3

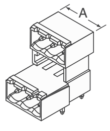

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 22.1mm Profile, Straight Open End Header With Interlock										
1	2	10.0	300	15	Green	A98135-ND	.86	.78	.70	284056-2
	3	15.0	300	15	Green	A98136-ND	1.31	1.18	1.05	284056-3
	4	20.0	300	15	Green	A98137-ND	1.70	1.54	1.37	284056-4
	5	25.0	300	15	Green	A98138-ND	2.15	1.94	1.72	284056-5
5.08mm Centerline, 22.08mm Profile, Straight Closed End Header										
2	2	13.08	300	15	Green	A98146-ND	1.08	.98	.87	284065-2
	3	18.16	300	15	Green	A98147-ND	1.59	1.44	1.28	284065-3
	4	23.24	300	15	Green	A98148-ND	2.15	1.94	1.72	284065-4
	5	28.32	300	15	Green	A98149-ND	2.70	2.43	2.16	284065-5
	6	33.40	300	15	Green	A98150-ND	3.23	2.91	2.58	284065-6
	8	43.56	300	15	Green	A98151-ND	4.30	3.87	3.44	284065-8
	10	53.72	300	15	Green	A98152-ND	5.40	4.86	4.32	1-284065-0
	12	63.88	300	15	Green	A98153-ND	6.45	5.81	5.16	1-284065-2
5.0mm Centerline, 22.9mm Profile, High Temperature, Right Angle Closed End Header										
3	2	12.0	300	15	Black	A97990-ND	1.19	1.07	.96	1776166-2
	3	17.0	300	15	Black	A97991-ND	1.78	1.61	1.43	1776166-3
	4	22.0	300	15	Black	A97992-ND	2.40	2.16	1.92	1776166-4
	5	27.0	300	15	Black	A97993-ND	2.95	2.66	2.36	1776166-5
	6	32.0	300	15	Black	A97994-ND	3.58	3.22	2.86	1776166-6
	8	42.0	300	15	Black	A97995-ND	4.78	4.30	3.82	1776166-8
5.08mm Centerline, 22.9mm Profile, Right Angle Closed End Header										
3	2	12.20	300	15	Green	A98139-ND	1.15	1.04	.92	284061-2
	3	17.28	300	15	Green	A98140-ND	1.69	1.52	1.35	284061-3
	4	22.36	300	15	Green	A98141-ND	2.28	2.05	1.82	284061-4
	5	27.44	300	15	Green	A98142-ND	2.85	2.57	2.28	284061-5
	6	32.52	300	15	Green	A98143-ND	3.43	3.09	2.74	284061-6
	8	42.68	300	15	Green	A98368-ND	4.58	4.12	3.66	284061-8
	10	52.84	300	15	Green	A98144-ND	5.68	5.11	4.54	1-284061-0
	12	63.00	300	15	Green	A98145-ND	6.83	6.15	5.46	1-284061-2

Unshrouded Pin Headers

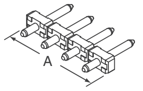

No. of Pos.	Dim. A (mm)	Voltage (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
						1	10	100	
5.0mm Centerline, High Temperature, Straight Pin Header									
2	10.0	300	12	Black	A97965-ND	.21	.20	.18	1546931-2
3	15.0	300	12	Black	A97966-ND	.32	.29	.26	1546931-3
4	20.0	300	12	Black	A97967-ND	.39	.36	.32	1546931-4
5	25.0	300	12	Black	A97968-ND	.50	.45	.40	1546931-5
6	30.0	300	12	Black	A97969-ND	.61	.55	.49	1546931-6
8	40.0	300	12	Black	A97970-ND	.81	.73	.65	1546931-8
10	50.0	300	12	Black	A97971-ND	1.01	.92	.81	1-1546931-0
12	60.0	300	12	Black	A97972-ND	1.24	1.12	1.00	1-1546931-2

CINCH® Double Row Barrier Blocks

Features: • Interposing barriers between terminals • Can be equipped with binder head screws only, or with binder head screws and Y solder terminals • UL recognized

Specifications: • Operating Temperature: -55°F ~ 300°F (-48°C ~ 149°C) • Maximum Wire Size: .375" (9.53mm) - #16; .438" (11.13mm) - #15; .563" (14.30mm) - #10 • Voltage Rating: .375" and .438" (9.53mm and 11.13mm) - 1100VAC rms maximum; .563" (14.30mm) - 1600VAC rms maximum • Current Rating: .375" (9.53mm) - 15A maximum; .438" (11.13mm) - 20A maximum; .563" (14.30mm) - 30A maximum • Maximum Watts per Terminal: .375" (9.53mm) – 3750; .438" (11.13mm) – 5000; .563" (14.30mm) – 7500

Material: • Insulation Material: Molded monoblock, general purpose phenolic • Eyelet Material: Brass • Eyelet Plating: Nickel • Screw Material: Steel or brass • Screw Plating: Nickel over copper flash • Solder Terminal Material: Brass • Solder Terminal Plating: Tin

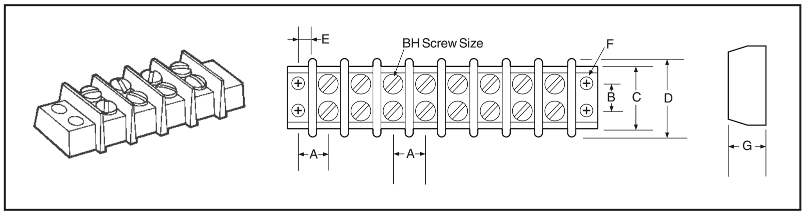

Terminal Spacing	Dimensions – Inch (mm)							BH Screw Size
	A	B	C	D	E	F	G	
.375 (9.53)	.375 (9.53)	.313 (7.95)	.688 (17.48)	.875 (22.23)	.141 (3.58)	.160 (4.06)	.406 (10.31)	5-40 x 3/16
.438 (11.13)	.438 (11.13)	.422 (10.72)	.875 (22.23)	1.125 (28.58)	.156 (3.96)	.175/.185 (4.45/4.70)	.500 (12.70)	6-32 x 1/4
.563 (14.30)	.563 (14.30)	.500 (12.70)	1.062 (26.97)	1.312 (33.32)	.203 (5.16)	.209 (5.31)	.625 (15.88)	8-32 x 5/16

Terminal Spacing	No. of Cont.	Digi-Key Part No.	Pricing 1	25	50
Series 140 — RoHS Compliant					
Barrier Blocks					
.375" (9.53mm)	2	CBB102-ND	1.65	31.46	57.24
	3	CBB103-ND	1.79	34.08	62.00
	4	CBB104-ND	1.90	36.18	65.82
	5	CBB105-ND	2.04	38.80	70.59
	6	CBB106-ND	2.70	51.39	93.48
	7	CBB107-ND	2.95	56.11	102.07
	8	CBB108-ND	3.39	64.50	117.33
	9	CBB109-ND	3.83	72.89	132.59
	10	CBB110-ND	4.25	80.75	146.90
	11	CBB111-ND	4.85	92.29	167.89
	12	CBB112-ND	4.99	94.91	172.66
	13	CBB319-ND	5.79	110.12	200.32
	14	CBB320-ND	6.21	117.98	214.63
	15	CBB321-ND	6.21	117.98	214.63
	16	CBB322-ND	6.40	121.65	221.31
	17	CBB323-ND	6.90	131.09	238.48
	18	CBB324-ND	7.31	138.96	252.79
	19	CBB325-ND	7.94	151.02	274.73
	20	CBB326-ND	8.27	157.31	286.17
	21	CBB327-ND	8.50	161.50	293.81
	22	CBB328-ND	8.74	166.22	302.39
	23	CBB329-ND	8.77	166.75	303.34
	24	CBB451-ND	8.96	170.42	310.02
	25	CBB330-ND	8.94	169.89	309.07
Marker Strips					
.375" (9.53mm)	18	CBB347-ND	1.54	29.36	53.42
	21	CBB350-ND	1.90	36.18	65.82
"Y" Solder Terminal Barrier Blocks					
.375" (9.53mm)	2	CBB355-ND	1.93	36.71	66.77
	3	CBB356-ND	2.21	41.95	76.31
	4	CBB357-ND	3.03	57.68	104.93
	5	CBB358-ND	3.45	65.55	119.24
	6	CBB359-ND	3.89	73.94	134.50
	7	CBB360-ND	4.55	86.52	157.40
	8	CBB361-ND	4.88	92.81	168.84
	12	CBB365-ND	7.92	150.49	273.77
	24	CBB377-ND	14.62	277.91	505.57

Terminal Spacing	No. of Cont.	Digi-Key Part No.	Pricing 1	25	50
Series 141 — RoHS Compliant					
Barrier Blocks					
.438" (11.13mm)	2	CBB202-ND	1.35	25.69	46.74
	3	CBB203-ND	2.26	43.00	78.22
	4	CBB204-ND	2.26	43.00	78.22
	5	CBB205-ND	2.51	47.72	86.81
	6	CBB206-ND	2.92	55.58	101.11
	7	CBB207-ND	3.56	67.64	123.05
	8	CBB208-ND	3.72	70.79	128.78
	9	CBB209-ND	4.25	80.75	146.90
	10	CBB210-ND	4.30	81.80	148.81
	11	CBB211-ND	5.93	112.74	205.09
	12	CBB212-ND	5.96	113.26	206.05
	13	CBB403-ND	6.07	115.36	209.86
	14	CBB404-ND	6.26	119.03	216.54
	15	CBB405-ND	6.79	128.99	234.66
	16	CBB406-ND	7.09	134.76	245.16
	17	CBB407-ND	7.67	145.77	265.19
	18	CBB408-ND	8.14	154.69	281.40
	19	CBB409-ND	8.55	162.55	295.71
	20	CBB410-ND	8.85	168.32	306.21
Marker Strips					
.438" (11.13mm)	5	CBB414-ND	.94	17.83	32.43
Series 142					
Barrier Blocks					
.563" (14.30mm)	2	CBB302-ND◆	2.07	39.33	71.54
	3	CBB303-ND◆	2.54	48.24	87.76
	4	CBB304-ND◆	3.17	60.30	109.70
	5	CBB305-ND◆	4.17	79.18	144.04
	6	CBB306-ND◆	5.93	112.74	205.09
	7	CBB307-ND◆	6.51	123.75	225.12
	8	CBB308-ND	6.79	128.99	234.66
	9	CBB309-ND◆	10.34	196.64	357.72
	10	CBB310-ND◆	10.87	206.60	375.84
	11	CBB311-ND◆	11.39	216.56	393.97
	12	CBB312-ND◆	11.45	217.61	395.87
	13	CBB430-ND◆	12.61	239.63	435.94

Terminal Spacing	No. of Cont.	Digi-Key Part No.	Pricing 1	25	50
.563" (14.30mm)	14	CBB431-ND◆	13.46	255.89	465.51
	15	CBB432-ND◆	13.49	256.41	466.46
	17	CBB434-ND◆	14.65	278.44	506.53

◆ *RoHS Compliant*

Accessories

Fig. 1

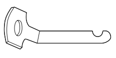

Y Type

Fig. 2

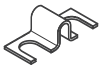

A Type

Fig. 3

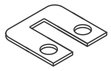

B Type

Fig. 4

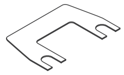

D Type

Fig. 5

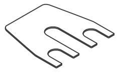

E Type

Fig. 6

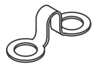

F Type

Fig.	Barrier Block Series	Digi-Key Part No.	Pricing 1	25	50
Y Solder Terminals					
1	140	CBB001-ND	.50	9.44	17.17
1	141	CBB004-ND	.80	15.21	27.66
1	142	CBB007-ND	.94	17.83	32.43
Jumpers					
2	140	CBB313-ND	.36	6.82	12.40
3	141	CBB315-ND	.47	8.91	16.22
4	142	CBB316-ND	.50	9.44	17.17
5	142	CBB317-ND	.47	8.91	16.22
6	141	CBB314-ND	.41	7.87	14.31
6	142	CBB318-ND	1.10	20.97	38.16

TUSONIX Filtered Terminal Blocks

A Subsidiary of CTS Electronic Components

Fig.	Number of Positions	Circuit	Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
1	2	Pi	2000	410-1203-ND	29.78	25.53	21.27	7602-501NLF
	2	C	12000/27000	410-1205-ND	30.08	25.78	21.49	7602-602NLF
	3	Pi	2000	410-1206-ND	41.08	35.22	29.35	7603-501NLF
	3	C	12000/27000	410-1208-ND	42.12	36.10	30.09	7603-602NLF
	4	Pi	2000	410-1209-ND	54.10	46.38	38.65	7604-501NLF
	4	C	12000/27000	410-1211-ND	54.69	46.88	39.07	7604-602NLF
	6	Pi	2000	410-1212-ND	79.11	67.82	56.51	7606-501NLF
	6	C	12000/27000	410-1214-ND	81.72	70.05	58.37	7606-602NLF
	8	Pi	2000	410-1215-ND	103.88	89.05	74.21	7608-501NLF
	8	C	12000/27000	410-1216-ND	104.67	89.72	74.77	7608-602NLF
2	2	Pi	2500/5000	410-1204-ND	40.65	34.85	29.04	7602-551NLF
	3	Pi	2500/5000	410-1207-ND	52.34	44.86	37.39	7603-551NLF
	4	Pi	2500/5000	410-1210-ND	60.15	51.56	42.97	7604-551NLF
	6	Pi	2500/5000	410-1213-ND	87.96	75.40	62.83	7606-551NLF

Fig. 1

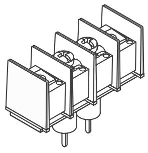

Fig. 2

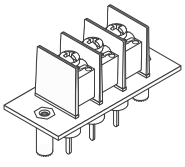

Barrier Terminal Blocks

Fig. 1

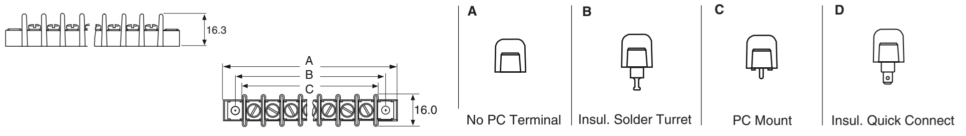

No PC Terminal

Insul. Solder Turret

PC Mount

Insul. Quick Connect

Fig. 2

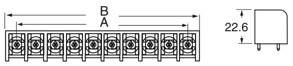

Fig. 3

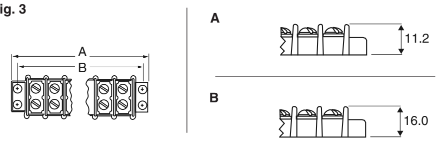

Fig. 4

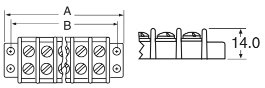

Fig. 5

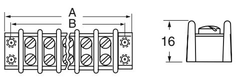

Fig. 6

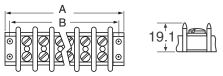

.375" Single Row, PCB Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14AWG. Class C - 15Amps @ 150V 14AWG. CSA: Class B & C - 20Amps @ 300V 14AWG, **Mechanical:** Torque - 12 in-lbs. Strip length - 5/16". Wire range - 12 ~ 24AWG, **Materials:** Insulator: Thermoplastic, UL94V-0, black. Terminal: Brass, tin-lead plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Tri-Barrier and Double Row Barrier Terminal Strips: PCB Tri-Barrier Terminal Strip, 600V

Ratings: UL & CSA: Class B & C: 45Amps @ 600V 8 AWG **Mechanical:** Torque - 16 in-lbs. Wire Range: 8 ~ 18 AWG Strip length - 5/16" Insulator: Thermoplastic, UL94V-0, black. Terminal: High copper brass, tin-lead plate. Screws: M4, steel, zinc chromate plate with clamp washer. UL File No. E48521, CSA File No. 025562

.375" Double Row Low Profile Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14 AWG, Class C - 15Amps @ 150V 14 AWG. CSA: Class B & C - 20Amps @ 150V 14AWG **Mechanical:** Torque - 8in-lbs. Strip length - 5/16" Wire range - 12 ~ 24 AWG Insulator: Thermoplastic, UL94V0, black. Terminal: Brass, nickel plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

.375" Double Row Barrier Terminal Strip

Same as the Low Profile except the CSA ratings Class B & C: 20Amps @ 300V 14AWG

.438" Double Row Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw. UL: Class B & C 15Amps @ 300V 14AWG CSA: Class B & C 20Amps @ 300V 14AWG **Mechanical:** Torque - 8in-lbs. Strip length - 5/16: Wire range - 12 to 24AWG **Materials:** Same as the .375" Terminal Strips

.563" Double Row Phenolic Barrier Terminal Strip

Ratings: #8-32 Binding Head Screw: UL & CSA: Class B & C: 30Amps @ 300V 10AWG **Mechanical:** Torque - 16in-lbs. Strip length - 5/16" Wire range - 10 ~ 18AWG **Materials:** Insulator: General purpose phenolic, UL94V-0, black. Terminal: Brass, nickel plate. Screws: #8-32, phillips/slotted, steel, zinc chromate plate

.688" Double Row Phenolic Barrier Terminal Strip

Ratings: #10-32 Screw UL: Class B - 50Amps @ 300V 6AWG (lugged). Class C - 50Amps @ 150V, 6AWG (lugged). CSA: Class B - 50Amps @ 300V 6AWG (lugged). **Mechanical:** Torque - 20 in-lbs. Torque - 22 in-lbs. Strip length - 5/16" Wire range - 6AWG lugged. maximum **Materials:** Same as the .562" except the screw size which is #10-32

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.375" Single Row, PCB Barrier Terminal Strip — RoHS Compliant									
1A	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5721-ND	4.69	4.14	2.76	38720-0203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5722-ND	5.41	4.77	3.18	38720-0204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5723-ND	6.13	5.41	3.61	38720-0205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5724-ND	6.91	6.10	4.07	38720-0206
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5725-ND	8.47	7.48	4.99	38720-0208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5726-ND	10.03	8.86	5.91	38720-0210
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5727-ND	11.89	10.50	7.00	38720-0212
1B	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5728-ND	3.00	2.65	1.77	38720-3202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5729-ND	2.47	2.06	1.52	38720-3203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5730-ND	4.81	4.24	2.83	38720-3204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5731-ND	6.61	5.83	3.89	38720-3205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5732-ND	6.55	5.78	3.86	38720-3206
	7	3.46 (87.8)	3.00 (76.2)	2.71 (68.8)	WM5733-ND	7.51	6.63	4.42	38720-3207
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5734-ND	8.35	7.37	4.92	38720-3208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5735-ND	11.05	9.76	6.51	38720-3210
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5737-ND	13.09	11.56	7.71	38720-3212
1C	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5738-ND	3.96	3.50	2.34	38720-6202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5739-ND	5.35	4.72	3.15	38720-6203
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5740-ND†	3.84	3.40	2.27	38720-6303
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5741-ND	5.29	4.67	3.11	38720-6204
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5742-ND†	4.51	3.98	2.65	38720-6304
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5743-ND	5.95	5.25	3.50	38720-6205
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5744-ND†	5.11	4.51	3.01	38720-6305
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5745-ND	6.79	5.99	4.00	38720-6206
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5746-ND†	6.01	5.30	3.54	38720-6306
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5747-ND	8.17	7.21	4.81	38720-6208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5748-ND	9.67	8.54	5.69	38720-6210
1D	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5749-ND	4.81	4.24	2.83	38721-6702
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5750-ND	5.59	4.93	3.29	38721-6703
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5751-ND	4.81	4.24	2.83	38721-6704
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5752-ND	6.55	5.78	3.86	38721-6706

◆ *RoHS Compliant* † No mounting ends

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.500" Single Row, PCB Tri-Barrier Terminal Strip, 600V — RoHS Compliant								
2	3	1.00 (25.40)	1.60 (40.6)	WM5899-ND	8.89	7.85	5.23	38660-8803
	7	3.00 (76.2)	3.61 (91.7)	WM5758-ND	18.62	16.43	10.96	38660-7807
.375" Double Row Low Profile Barrier Terminal Strip — RoHS Compliant								
3A	2	1.41 (35.8)	1.13 (28.7)	WM5759-ND	3.06	2.71	1.81	38770-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5760-ND	3.42	3.03	2.02	38770-0103
	4	2.16 (54.9)	1.88 (47.8)	WM5761-ND	5.47	4.83	3.22	38770-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5762-ND	4.93	4.35	2.90	38770-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5763-ND	7.09	6.26	4.17	38770-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5764-ND	6.49	5.73	3.82	38770-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5765-ND	6.97	6.15	4.10	38770-0108
	10	4.41 (112)	4.13 (105)	WM5766-ND	8.35	7.37	4.92	38770-0110
	12	5.16 (131)	4.88 (124)	WM5767-ND	9.97	8.80	5.87	38770-0112
	13	5.53 (140)	5.25 (133)	WM5768-ND	10.99	9.70	6.47	38770-0113
	14	5.91 (150)	5.63 (143)	WM5769-ND	11.71	10.34	6.89	38770-0114
	16	6.66 (169)	6.38 (162)	WM5770-ND	14.18	12.51	8.34	38770-0116
	18	7.41 (188)	7.13 (181)	WM5771-ND	15.86	14.00	9.33	38770-0118
	20	8.16 (207)	7.88 (200)	WM5772-ND	17.72	15.64	10.43	38770-0120
	30	11.91 (303)	11.63 (295)	WM5773-ND	31.11	27.46	18.31	38770-0130

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.375" Double Row Barrier Terminal Strip								
3B	2	1.41 (35.8)	1.13 (28.7)	WM5774-ND◆	3.12	2.76	1.84	38760-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5775-ND◆	3.72	3.29	2.20	38760-0103
	4	2.16 (54.9)	1.88 (47.8)	WM5776-ND◆	4.26	3.77	2.51	38760-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5777-ND◆	4.93	4.35	2.90	38760-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5778-ND◆	5.65	4.99	3.33	38760-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5779-ND◆	6.49	5.73	3.82	38760-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5780-ND◆	6.49	5.73	3.82	38760-0108
	10	4.41 (112)	4.13 (105)	WM5781-ND◆	8.41	7.42	4.95	38760-0110
	12	5.16 (131)	4.88 (124)	WM5782-ND◆	10.03	8.86	5.91	38760-0112
	14	5.91 (150)	5.63 (143)	WM5783-ND	11.83	10.45	6.97	38760-0114
	16	6.66 (169)	6.38 (162)	WM5784-ND◆	14.30	12.62	8.41	38760-0116
	18	7.41 (188)	7.13 (181)	WM5785-ND◆	15.98	14.10	9.40	38760-0118
	20	8.16 (207)	7.88 (200)	WM5786-ND◆	17.84	15.75	10.50	38760-0120
	22	8.91 (226)	8.63 (219)	WM5787-ND◆	18.62	16.43	10.96	38760-0122
	24	9.66 (245)	9.38 (238)	WM5788-ND◆	29.01	25.60	17.07	38760-0124
	30	11.91 (303)	11.63 (295)	WM5789-ND◆	31.29	27.62	18.41	38760-0130
.438" Double Row Barrier Terminal Strip — RoHS Compliant								
4	2	1.63 (41.4)	1.31 (33.3)	WM5790-ND	3.12	2.76	1.84	38780-0102
	3	2.06 (52.3)	1.75 (44.5)	WM5791-ND	4.20	3.71	2.48	38780-0103
	4	2.50 (63.5)	2.19 (55.6)	WM5792-ND	4.93	4.35	2.90	38780-0104
	5	2.94 (74.7)	2.63 (66.8)	WM5793-ND	5.77	5.09	3.40	38780-0105
	6	3.38 (85.9)	3.06 (77.7)	WM5794-ND	6.67	5.89	3.93	38780-0106
	7	3.81 (96.8)	3.50 (88.9)	WM5795-ND	6.31	5.57	3.71	38780-0107
	8	4.25 (108)	3.94 (100)	WM5796-ND	8.41	7.42	4.95	38780-0108
	10	5.13 (130)	4.81 (122)	WM5797-ND	10.09	8.91	5.94	38780-0110
	12	6.00 (152)	5.69 (145)	WM5798-ND	12.07	10.66	7.11	38780-0112
	14	6.88 (175)	6.56 (167)	WM5799-ND	11.89	10.50	7.00	38780-0114
	16	7.75 (197)	7.44 (189)	WM5800-ND	13.70	12.09	8.06	38780-0116
	18	8.63 (219)	8.31 (211)	WM5801-ND	15.32	13.52	9.01	38780-0118
	20	9.50 (241)	9.19 (233)	WM5802-ND	16.88	14.90	9.93	38780-0120
.563" Double Row Phenolic Barrier Terminal Strip with Closed Bottom — RoHS Compliant								
5	2	2.09 (53.9)	1.69 (42.9)	WM5803-ND	4.93	4.35	2.90	38211-0102
	3	2.66 (67.6)	2.25 (57.2)	WM5804-ND	7.39	6.52	4.35	38211-0103
	4	3.22 (81.8)	2.81 (71.4)	WM5805-ND	8.83	7.80	5.20	38211-0104
	5	3.78 (96.0)	3.38 (85.9)	WM5806-ND	10.99	9.70	6.47	38211-0105
	6	4.34 (110)	3.94 (100)	WM5807-ND	12.73	11.24	7.50	38211-0106
	7	4.91 (125)	4.50 (114)	WM5808-ND	13.94	12.30	8.20	38211-0107
	8	5.47 (139)	5.06 (129)	WM5809-ND	15.08	13.31	8.87	38211-0108
	10	6.59 (167)	6.19 (157)	WM5810-ND	19.64	17.34	11.56	38211-0110
	12	7.72 (196)	7.31 (186)	WM5811-ND	23.61	20.83	13.89	38211-0112
	16	9.97 (253)	9.56 (243)	WM5812-ND	30.63	27.03	18.02	38211-0116
	20	12.22 (310)	11.81 (300)	WM5813-ND	38.92	34.35	22.90	38211-0120
	24	14.47 (368)	14.06 (357)	WM5814-ND	46.25	40.81	27.21	38211-0124
.688" Double Row Phenolic Barrier Terminal Strip								
6	2	2.50 (63.5)	2.06 (52.4)	WM5815-ND◆	10.33	9.12	6.08	38280-0102
	3	3.19 (81)	2.75 (69.9)	WM5816-ND◆	14.78	13.04	8.70	38280-0103
	4	3.88 (98.4)	3.44 (87.3)	WM5817-ND◆	19.22	16.96	11.31	38280-0104
	5	4.56 (116)	4.13 (105)	WM5818-ND◆	23.61	20.83	13.89	38280-0105
	6	5.25 (133)	4.81 (122)	WM5819-ND	29.49	26.03	17.35	38280-0106
	10	8.00 (203)	7.56 (192)	WM5821-ND◆	45.35	40.02	26.68	38280-0110
	12	9.38 (238)	8.94 (227)	WM5822-ND◆	54.84	48.39	32.26	38280-0112

◆ *RoHS Compliant*

Barrier and Eurostyle® (ESE) Terminal Blocks

Fig. 1

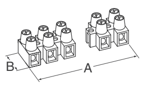

Fig. 2

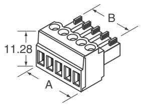

Fig. 3

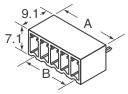

Fig. 4

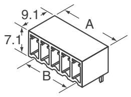

Fig. 5

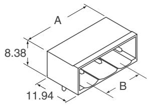

Fig. 6

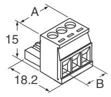

Fig. 7

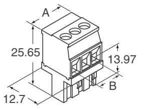

Fig. 8

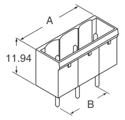

Fig. 9

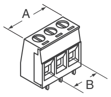

Fig. 10

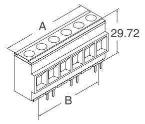

60 Amps/Line

Fig. 11

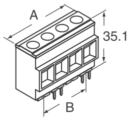

90 Amps/Line

8.00mm Two-Screw Terminal Strip:

Ratings: UL: Class C: 20Amps @ 600V 12AWG; CSA: 15Amps @ 300V 16AWG; Safety Agencies: UL File No. E48521, CSA: File No. 25562 **Mechanical:** Torque: 4.4 inches/pound; Wire Range: 12 ~ 22AWG **Materials:** Insulator: Nylon 6.6, UL94V-2, white; Inserts: Brass; Wire protector: stainless steel; Screws: Zinc-plated steel; Terminals: Nickel-plated brass

10.00mm Two-Screw Terminal Strip:

Ratings: Voltage: 300V; Current: 30A; Safety Agencies: UL: File No. E48521, CSA: 025562 **Mechanical:** Torque: 7 inches/pound; Wire Range: 10 ~ 18AWG **Materials:** Same as 8.00mm

12.00mm Two-Screw Terminal Strip:

Ratings: UL: 40A Max, 600V 10AWG CSA: 40A Max, 600V 8AWG **Mechanical:** Torque: 7 inches/pound; Wire Range 8 ~ 20AWG **Materials:** Same as 8.00mm and 10.00mm

15.00mm Two-Screw Terminal Strip:

Ratings: UL: 63A Max, 600V 10AWG CSA: 40A Max, 600V 8AWG **Mechanical:** Torque: 18.5 inches/pound; Wire Range 6 ~ 14AWG **Materials:** Same as 8.00mm, 10.00mm and 12.00mm

3.50mm Pitch Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: 8A @ 300V, 16~24AWG **Materials:** Housing: Polyamide 6/6; UL94V-0 Black

3.50mm Pitch Beau® Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: File No. E48521, Guide No. XCFR2 Electrical: Voltage: 300V; Maximum Current: 10Amp; Insulation Resistance: >5,000MΩ **Mechanical:** Torque: 2.5 inches/pound, .31Nm. Operating Temperature: 140°C **Physical:** Housing: Polyamide 4/6, black; Screws: M2 Cheesehead, Silicon Bronze; Screw Plating: Nickel; Contacts: Beryllium Copper; Contact Plating: Hot Tin Dip; Pressure Clamp: Yellow Brass; Pressure Clamp Plating: Nickel; Wire Range: 16 ~ 24AWG, 1.0 to 0.2mm^2

3.50mm Pitch Eurostyle PCB Header:

Ratings: UL: 8A @ 300V Materials: **Housing:** Polyamide 6/6; UL94V-0 Black

3.50mm Pitch Beau Eurostyle High Temperature PCB Header:

Physical: Header Pins: Brass, 3/4 Hard; Header Pin Plating: Tin

3.50mm Eurostyle Fixed PCB Terminal Block:

Ratings: UL and CSA: Class B: 8 Amps @ 150V 16AWG; Safety Agencies: UL & CSA are pending **Mechanical:** Torque: 2 inches/pound, Strip length: .250" (6mm), Wire Range: 16 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, green; Terminal: Brass, tin plate; Clamp: Brass, nickel plate; Screws: Steel, zinc chromate plate

5.00mm and 5.08mm Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: Class B: 15Amps @ 300V 12AWG; Class C: 10Amps @ 300V 12AWG CSA: Class B: 15Amps @ 300V 12AWG; Safety Agencies: UL: File No. E48521; CSA: File No. 25562 **Mechanical:** Torque: 5 inches/pound; Strip length: .250" (6mm); Wire Range: 12 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, black; Pressure Clamp: Brass, nickel plate; Contacts: Phosphor bronze, tin plate; Header pins: Brass, tin plate; Screws: 2.5mm, steel, zinc chromate plates

5.00mm and 5.08mm Eurostyle Pluggable PCB Header, Closed Ends:

Ratings: UL and CSA - Class B: 15Amps @ 300V, UL: Class C: 10Amps @ 300V File No. E150931 **Materials:** Nylon 6.6, UL94V-0, black; Header pins: Brass, tin plate

10.16mm Eurostyle High Power Fixed Blocks:

Ratings: UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V; Maximum Current: 60Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Maximum Tightening Torque: 18 inches/pound 2.03 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

15.00mm Eurostyle High Power Fixed Blocks:

Ratings: UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V, Maximum Current: 90Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Maximum Tightening Torque: 24 inches/pound 2.71 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	100	
Fig. 1 — 8.00mm Two-Screw Terminal Strip, with Wire Protector							
2	13.46	18.2	WM15900-ND	1.14	1.01	.68	39100-0802
3	21.46	18.2	WM15901-ND	1.68	1.49	.99	39100-0803
4	29.46	18.2	WM15902-ND	2.28	2.02	1.35	39100-0804
6	45.47	18.2	WM15904-ND	3.24	2.87	1.91	39100-0806
6	45.47	18.2	WM15905-ND‡	3.12	2.76	1.84	39100-0906
12	93.47	18.2	WM15907-ND	5.95	5.25	3.50	39100-0812
Fig. 1 — 10.00mm Two-Screw Terminal Strip, with Wire Protector							
2	17.00	18.8	WM7722-ND	1.38	1.22	.82	39100-1002
3	27.00	18.8	WM15908-ND	2.04	1.81	1.21	39100-1003
3	27.00	18.8	WM15909-ND‡	2.04	1.81	1.21	39100-1103
4	37.00	18.8	WM15910-ND	2.70	2.39	1.59	39100-1004
5	47.00	18.8	WM15911-ND	3.42	3.03	2.02	39100-1005
6	57.00	18.8	WM15912-ND	3.96	3.50	2.34	39100-1006
8	77.00	18.8	WM15913-ND	5.35	4.72	3.15	39100-1008
9	87.00	18.8	WM15918-ND	6.13	5.41	3.61	39100-1009
Fig. 1 — 12.00mm Two-Screw Terminal Strip, with Wire Protector							
2	20.00	23.2	WM7723-ND	1.50	1.33	.89	39100-1202
3	32.00	23.2	WM7724-ND	2.16	1.91	1.28	39100-1203
4	44.00	23.2	WM7725-ND	2.82	2.50	1.67	39100-1204
6	68.00	23.2	WM7726-ND	4.26	3.77	2.51	39100-1206
10	116.00	23.2	WM15916-ND	7.21	6.36	4.24	39100-1210
12	140.00	23.2	WM15917-ND	7.75	6.84	4.56	39100-1212
Fig. 1 — 15.00mm Two-Screw Terminal Strip, with Wire Protector							
2	25.00	28	WM7727-ND	3.42	3.03	2.02	39100-1502
3	40.00	28	WM7728-ND	5.17	4.56	3.04	39100-1503
4	55.00	28	WM7729-ND	6.61	5.83	3.89	39100-1504
6	85.00	28	WM7730-ND	9.79	8.64	5.76	39100-1506
12	175.0	28	WM7731-ND	18.02	15.90	10.60	39100-1512
Fig. 2 — 3.50mm Eurostyle Pluggable Terminal Blocks							
2	7.80	3.5	WM7732-ND	2.46	2.18	1.45	39500-0002
3	11.30	7.0	WM7733-ND	3.66	3.24	2.16	39500-0003
4	14.80	10.5	WM7734-ND	3.30	2.92	1.95	39500-0004
5	18.30	14.0	WM7735-ND	2.76	2.44	1.63	39500-0005
6	21.8	17.5	WM7736-ND	7.21	6.36	4.24	39500-0006
7	25.3	21.0	WM7737-ND	4.75	4.19	2.80	39500-0007
8	28.8	24.5	WM7738-ND	9.67	8.54	5.69	39500-0008
10	35.8	31.5	WM7740-ND	12.07	10.66	7.11	39500-0010
11	39.3	35.0	WM7741-ND	13.21	11.66	7.78	39500-0011
12	42.8	38.5	WM7742-ND	14.48	12.78	8.52	39500-0012
13	46.3	42.0	WM7743-ND	15.68	13.84	9.23	39500-0013
14	49.8	45.5	WM7744-ND	16.88	14.90	9.93	39500-0014
18	63.8	59.5	WM7748-ND	21.68	19.14	12.76	39500-0018
19	67.3	63.0	WM7749-ND	22.89	20.20	13.47	39500-0019
20	70.8	66.5	WM7750-ND	24.09	21.26	14.17	39500-0020
Fig. 3 — 3.50mm Eurostyle PCB Header, Closed Ends, Vertical							
2	8.4	3.5	WM7751-ND	.90	.80	.53	39501-1002
3	11.9	7.0	WM7752-ND	1.32	1.17	.78	39501-1003
4	15.4	10.5	WM7753-ND	1.80	1.59	1.06	39501-1004
6	22.4	17.5	WM7755-ND	2.70	2.39	1.59	39501-1006
7	25.9	21.0	WM7756-ND	3.12	2.76	1.84	39501-1007
8	29.4	24.5	WM7757-ND	3.60	3.18	2.12	39501-1008
10	36.4	31.5	WM7759-ND	4.51	3.98	2.65	39501-1010
12	43.4	38.5	WM7761-ND	5.41	4.77	3.18	39501-1012
13	46.9	42.0	WM7762-ND	5.83	5.15	3.43	39501-1013
14	50.4	45.5	WM7763-ND	6.31	5.57	3.71	39501-1014
16	57.4	52.5	WM7765-ND	7.21	6.36	4.24	39501-1016
19	67.9	63.0	WM7768-ND	8.53	7.53	5.02	39501-1019
20	71.4	66.5	WM7769-ND	9.01	7.95	5.30	39501-1020
Fig. 4 — 3.50mm Eurostyle PCB Header, Closed Ends, Right Angle							
2	8.4	3.5	WM7770-ND	.90	.80	.53	39502-1002
3	11.9	7.0	WM7771-ND	1.32	1.17	.78	39502-1003
4	15.4	10.5	WM7772-ND	1.80	1.59	1.06	39502-1004
5	18.9	14.0	WM7773-ND	2.22	1.97	1.31	39502-1005
6	22.4	17.5	WM7774-ND	2.70	2.39	1.59	39502-1006

‡ Low Profile

(Continued)

No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
7	25.9	21.0	WM7775-ND	3.12	2.76	1.84	39502-1007
8	29.4	24.5	WM7776-ND	3.60	3.18	2.12	39502-1008
10	36.4	31.5	WM7778-ND	4.51	3.98	2.65	39502-1010
11	39.9	35.0	WM7779-ND	4.93	4.35	2.90	39502-1011
12	43.4	38.5	WM7780-ND	5.41	4.77	3.18	39502-1012
13	46.9	42.0	WM7781-ND	5.83	5.15	3.43	39502-1013
14	50.4	45.5	WM7782-ND	6.31	5.57	3.71	39502-1014
16	57.4	52.5	WM7784-ND	7.21	6.36	4.24	39502-1016
18	64.4	59.5	WM7786-ND	8.11	7.16	4.77	39502-1018
19	67.9	63.0	WM7787-ND	8.53	7.53	5.02	39502-1019
20	71.4	66.5	WM7788-ND	9.01	7.95	5.30	39502-1020
Fig. 5 — 5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Right Angle							
2	12.0	5.0	WM7809-ND	.78	.69	.46	39522-1002
3	17.0	10.0	WM7810-ND	1.14	1.01	.68	39522-1003
4	22.0	15.0	WM7811-ND	1.56	1.38	.92	39522-1004
5	27.0	22.0	WM7812-ND	1.98	1.75	1.17	39522-1005
6	32.0	25.0	WM7813-ND	2.34	2.07	1.38	39522-1006
7	37.0	30.0	WM7814-ND	2.70	2.39	1.59	39522-1007
8	42.0	35.0	WM7815-ND	3.06	2.71	1.81	39522-1008
9	47.0	40.0	WM7816-ND	3.54	3.13	2.09	39522-1009
10	52.0	45.0	WM7817-ND	3.90	3.45	2.30	39522-1010
12	62.0	55.0	WM7818-ND	4.69	4.14	2.76	39522-1012
Fig. 5 — 5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Right Angle							
2	12.16	5.08	WM7845-ND	.78	.69	.46	39532-1002
3	17.24	10.16	WM7846-ND	1.14	1.01	.68	39532-1003
4	22.32	15.24	WM7847-ND	1.56	1.38	.92	39532-1004
5	27.4	20.32	WM7848-ND	1.98	1.75	1.17	39532-1005
6	32.48	25.4	WM7849-ND	2.34	2.07	1.38	39532-1006
8	42.64	35.56	WM7850-ND	3.06	2.71	1.81	39532-1008
10	52.8	45.72	WM7851-ND	3.90	3.45	2.30	39532-1010
12	62.96	55.88	WM7852-ND	4.69	4.14	2.76	39532-1012
Fig. 6 — 5.00mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle							
2	10.0	5.0	WM7789-ND	2.10	1.86	1.24	39520-0002
3	15.0	10.0	WM7790-ND	3.18	2.81	1.88	39520-0003
4	20.0	15.0	WM7791-ND	4.20	3.71	2.48	39520-0004
5	25.0	20.0	WM7792-ND	5.29	4.67	3.11	39520-0005
6	30.0	25.0	WM7793-ND	6.31	5.57	3.71	39520-0006
7	35.0	30.0	WM7794-ND	7.39	6.52	4.35	39520-0007
8	40.0	35.0	WM7795-ND	8.35	7.37	4.92	39520-0008
9	45.0	40.0	WM7796-ND	9.43	8.33	5.55	39520-0009
10	50.0	45.0	WM7797-ND	10.51	9.28	6.19	39520-0010
12	60.0	55.0	WM7798-ND	12.61	11.13	7.42	39520-0012
Fig. 6 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle							
2	10.16	5.08	WM7819-ND	2.04	1.81	1.21	39530-0002
3	15.24	10.16	WM7820-ND	3.06	2.71	1.81	39530-0003
4	20.32	15.24	WM7953-ND	4.08	3.61	2.41	39530-0004
5	25.4	20.32	WM7821-ND	5.11	4.51	3.01	39530-0005
6	30.48	25.4	WM7822-ND	6.13	5.41	3.61	39530-0006
8	40.64	35.56	WM7823-ND	8.11	7.16	4.77	39530-0008
10	50.8	45.72	WM7824-ND	10.21	9.01	6.01	39530-0010
12	60.96	55.88	WM7825-ND	12.25	10.82	7.21	39530-0012
Fig. 7 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical (Front Wire Entry)							
2	10.16	5.08	WM7826-ND	1.44	1.28	.85	39533-2002
3	15.24	10.16	WM7827-ND	2.16	1.91	1.28	39533-2003
4	20.32	15.24	WM7828-ND	2.46	2.18	1.45	39533-2004
5	25.4	20.32	WM7829-ND	6.49	5.73	3.82	39533-2005
6	30.48	25.4	WM7830-ND	4.32	3.82	2.55	39533-2006
8	40.64	35.56	WM7831-ND	10.33	9.12	6.08	39533-2008
10	50.8	45.72	WM7832-ND	7.21	6.36	4.24	39533-2010
Fig. 7 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical (Rear Wire Entry)							
2	10.16	5.08	WM7833-ND	2.58	2.28	1.52	39533-3002
3	15.24	10.16	WM7834-ND	3.90	3.45	2.30	39533-3003
6	30.48	25.4	WM7836-ND	7.75	6.84	4.56	39533-3006

No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Fig. 8 — 5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical							
3	17.0	10.0	WM7800-ND	1.14	1.01	.68	39521-1003
6	32.0	25.0	WM7803-ND	2.34	2.07	1.38	39521-1006
7	37.0	30.0	WM7804-ND	2.70	2.39	1.59	39521-1007
8	42.0	35.0	WM7805-ND	3.06	2.71	1.81	39521-1008
10	52.0	45.0	WM7807-ND	3.90	3.45	2.30	39521-1010
12	62.0	55.0	WM7808-ND	3.90	3.45	2.30	39521-1012
Fig. 8 — 5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical							
2	12.16	5.08	WM7837-ND	.78	.69	.46	39531-1002
3	17.24	10.16	WM7838-ND	1.20	1.06	.71	39531-1003
4	22.32	15.24	WM7839-ND	1.62	1.44	.96	39531-1004
5	27.4	20.32	WM7840-ND	2.04	1.81	1.21	39531-1005
6	32.48	25.4	WM7841-ND	2.40	2.12	1.42	39531-1006
8	42.64	35.56	WM7842-ND	3.18	2.81	1.88	39531-1008
10	52.8	45.72	WM7843-ND	4.02	3.56	2.37	39531-1010
12	62.96	55.88	WM7844-ND	4.81	4.24	2.83	39531-1012
Fig. 10 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle							
2	10.16	5.08	WM7853-ND	1.38	1.22	.82	39544-3002
3	15.24	10.16	WM7854-ND	2.04	1.81	1.21	39544-3003
4	20.32	15.24	WM7855-ND	2.70	2.39	1.59	39544-3004
5	25.4	20.32	WM7856-ND	3.42	3.03	2.02	39544-3005
6	30.48	25.4	WM7857-ND	4.08	3.61	2.41	39544-3006
8	40.64	35.56	WM7858-ND	5.47	4.83	3.22	39544-3008
10	50.8	45.72	WM7859-ND	5.11	4.51	3.01	39544-3010
Fig. 10 — 3.50mm Eurostyle Pluggable Low Profile Fixed Terminal Blocks, Right Angle							
2	7.0	3.5	WM7877-ND	1.02	.91	.61	39357-0002
3	10.5	7.0	WM7878-ND	1.56	1.38	.92	39357-0003
4	14.0	10.5	WM7860-ND	2.10	1.86	1.24	39357-0004
5	17.5	14.0	WM7861-ND	2.58	2.28	1.52	39357-0005
6	21.0	17.5	WM7862-ND	3.12	2.76	1.84	39357-0006
8	28.0	24.5	WM7864-ND	4.14	3.66	2.44	39357-0008
9	31.5	28.0	WM7865-ND	4.69	4.14	2.76	39357-0009
12	42.0	38.5	WM7868-ND	6.25	5.52	3.68	39357-0012
15	52.5	49.0	WM7871-ND	7.81	6.89	4.60	39357-0015
17	59.5	56.0	WM7873-ND	7.99	7.05	4.70	39357-0017
20	70.0	66.5	WM7876-ND	10.39	9.17	6.12	39357-0020
Fig. 11 — 10.16mm Eurostyle High Power Fixed Blocks							
2	21.84	10.16	WM5964-ND	7.17	6.46	5.74	39910-0102
3	32.00	20.32	WM5965-ND	9.43	8.50	7.55	39910-0103
4	42.16	30.48	WM5966-ND	12.86	11.58	10.29	39910-0104
6	62.48	50.80	WM5967-ND	18.20	16.38	14.56	39910-0106
8	82.80	71.12	WM5968-ND	23.46	21.12	18.77	39910-0108
Fig. 12 — 15.00mm Eurostyle High Power Fixed Blocks							
3	44.20	30.00	WM6051-ND	11.59	10.43	9.28	39920-0503
4	59.18	45.01	WM6052-ND	13.99	12.60	11.20	39920-0504
6	89.15	75.01	WM6053-ND	18.94	17.05	15.16	39920-0506
8	119.13	105.0	WM6054-ND	24.03	21.63	19.23	39920-0508

‡ Low Profile

Kits

WM1052-ND	(76650-0020) **EuroStyle Barrier Strip Kit**; (8.0mm Pitch Two Screw Terminal Strip with Standoffs)	**$10.85**
WM8419-ND	(76650-0021) **EuroStyle Barrier Strip Kit**; (10.0mm Pitch Two Screw Terminal Strip with Standoffs)	**$12.40**
WM8433-ND	(76650-0022) **EuroStyle Barrier Strip Kit**; (12.0mm Pitch Two Screw Terminal Strip with Standoffs)	**$28.39**
WM1053-ND	(76650-0024) **EuroStyle Terminal Block Kit**; (Pluggable PCB Vertical and Horizontal Header and Plug)	**$89.35**
WM8434-ND	(76650-0023) **EuroStyle Terminal Block Kit**; (Pluggable PCB Vertical and Right Angle Header and Plug)	**$37.76**

molex® ETC

Terminals, Tools, Lugs and Connectors

Insulation Types:
Insulkrimp®: PVC Insulated
Avikrimp®: Nylon Insulated
Nylakrimp®: Nylon Insulated
Krimptite®: Non-insulated
VersaKrimp™: Non-insulated

Fig. 1
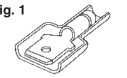
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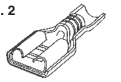
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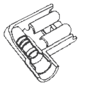
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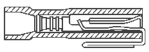
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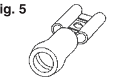
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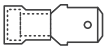
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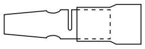
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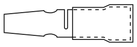
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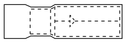
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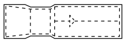
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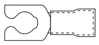
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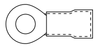
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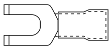
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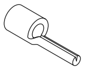
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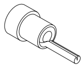
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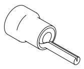
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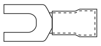
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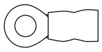
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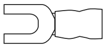
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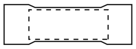
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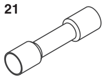
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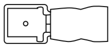
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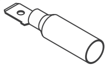
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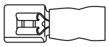
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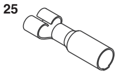
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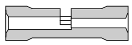
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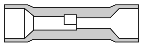
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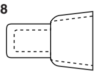
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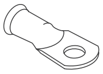
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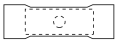
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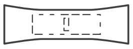
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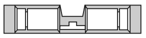
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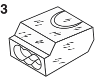
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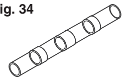
Fig. 35
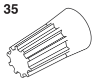
Fig. 36
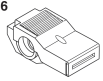
Fig. 37
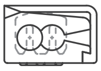
Fig. 38
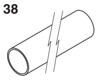

Crimp Tools

Premium
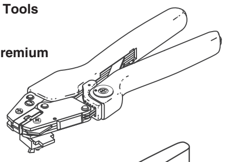

Service
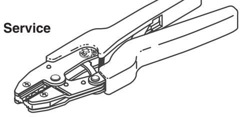

Manual
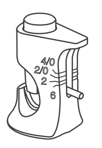

Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Avikrimp® - Male (Standard Flare)									
1	22~18 Red	23	.250x.032 (6.35x0.81)	.140 (3.56)	WM18225-ND	5.55	44.43	185.13	19001-0001
		23	.187x.020 (4.75x0.51)	.170 (4.32)	WM18226-ND	5.55	44.43	185.13	19001-0003
		23	.187x.020 (4.75x0.51)	.140 (3.56)	WM18744CT-ND†◊	7.29	58.35	—	19001-0005
		23	.187x.020 (4.75x0.51)	.140 (3.56)	WM18744TR-ND‡◊	170.00/500			19001-0005
	16~14 Blue	23	.250x.032 (6.35x0.81)	.140 (3.56)	WM18227-ND	5.55	44.43	185.13	19001-0006
		23	.187x.020 (4.75x0.51)	.170 (4.32)	WM18228-ND	5.55	44.43	185.13	19001-0008
	12~10 Yellow	4/22	.250x.032 (6.35x0.81)	.230 (5.84)	WM18229-ND	6.61	52.86	220.25	19001-0010
Avikrimp - Female (Standard Flare)									
2	22~18 Red	22/28	.250x.032 (6.35x0.81)	.120 (3.05)	WM18230-ND	4.95	33.23	134.33	19002-0001
		22/28	.250x.032 (6.35x0.81)	.120 (3.05)	WM18745CT-ND†◊	5.70	42.20	168.78	19002-0002
		22/28	.250x.032 (6.35x0.81)	.120 (3.05)	WM18745TR-ND‡◊	326.06/1,000			19002-0002
		22/28	.187x.020 (4.75x0.51)	.120 (3.05)	WM18231-ND	4.95	33.23	134.33	19002-0005
		22/28	.187x.020 (4.75x0.51)	.120 (3.05)	WM18746CT-ND†◊	6.71	53.64	223.50	19002-0007
		22/28	.187x.020 (4.75x0.51)	.120 (3.05)	WM18746TR-ND‡◊	313.00/1,000			19002-0007
		23/28	.187x.032 (4.75x0.81)	.120 (3.05)	WM18757-ND◊	4.64	37.14	154.75	19002-0009
		23/28	.110x.020 (2.79x0.51)	.120 (3.05)	WM18758-ND◊	4.71	37.65	156.88	19002-0013
	16~14 Blue	22	.250x.032 (6.35x0.81)	.140 (3.56)	WM18232-ND	5.05	40.38	168.25	19002-0024
		22	.250x.032 (6.35x0.81)	.140 (3.56)	WM18747CT-ND†◊	5.70	42.20	168.78	19002-0025
		22	.250x.032 (6.35x0.81)	.140 (3.56)	WM18747TR-ND‡◊	326.06/1,000			19002-0025
		22	.187x.020 (4.75x0.51)	.140 (3.56)	WM18233-ND	5.12	40.92	170.50	19002-0028
	12~10 Yellow	22	.250x.032 (6.35x0.81)	.245 (6.22)	WM18234-ND	6.11	48.90	203.75	19002-0044
Avikrimp - Female (Expanded Flare/Oval Barrel)									
2	12~10 Yellow	22	.250x.032 (6.35x0.81)	.245 (6.22)	WM18748CT-ND†◊	7.60	60.78	—	19002-0045
		22	.250x.032 (6.35x0.81)	.245 (6.22)	WM18748TR-ND‡◊	177.50/500			19002-0045
Insulkrimp® - Male (Standard Flare)									
1	22~18 Red	23/29	.250x.032 (6.35x0.81)	.145 (3.68)	WM18761-ND	2.93	23.40	97.50	19004-0001
		23/29	.250x.032 (6.35x0.81)	.145 (3.68)	WM18761CT-ND†	—	51.16	—	19004-0004
		23/29	.250x.032 (6.35x0.81)	.145 (3.68)	WM18761TR-ND‡	112.00/500			19004-0004
	16~14 Blue	23/29	.250x.032 (6.35x0.81)	.170 (4.32)	WM18762-ND	2.93	23.40	97.50	19004-0005
	12~10 Yellow	22/30	.250x.032 (6.35x0.81)	.275 (6.98)	WM18763-ND	3.52	28.14	117.25	19004-0009
Insulkrimp - Female (Standard Flare)									
2	26~24 Yellow	36	.250x.032 (6.35x0.81)	.075 (1.91)	WM18235-ND	2.70	21.57	89.88	19003-0071
		36	.187x.020 (4.75x0.51)	.075 (1.91)	WM18236-ND	3.33	26.64	111.00	19003-0064
	22~18 Red	15/23	.250x.032 (6.35x0.81)	.135 (3.43)	WM18237-ND	2.73	21.84	91.00	19003-0001
		15/23	.250x.032 (6.35x0.81)	.135 (3.43)	WM18237TR-ND‡	300.00/2,500			19003-0105
		15/23	.250x.032 (6.35x0.81)	.135 (3.43)	WM18749CT-ND†	4.66	37.26	155.25	19003-0003
		15/23	.250x.032 (6.35x0.81)	.135 (3.43)	WM18749TR-ND‡	217.00/1,000			19003-0003
		15/23	.187x.020 (4.75x0.51)	.135 (3.43)	WM18238-ND	2.84	22.68	94.50	19003-0011
		15/23	.187x.020 (4.75x0.51)	.135 (3.43)	WM18750CT-ND†	4.74	37.95	158.13	19003-0013
		15/23	.187x.020 (4.75x0.51)	.135 (3.43)	WM18750TR-ND‡	221.00/1,000			19003-0013
		15/23	.187x.032 (4.75x0.51)	.135 (3.43)	WM18759-ND	2.61	20.85	86.88	19003-0017
		15/23	.110x.020 (2.79x0.51)	.135 (3.43)	WM18760-ND	2.96	23.67	98.63	19003-0024
2	22~18 Red	23/29	.250x.032 (6.35x0.81)	.165 (4.19)	WM18764-ND	2.84	22.68	94.50	19005-0001
		24/38	.187x.032 (4.75x0.51)	.135 (3.43)	WM5928-ND	3.86	30.90	128.75	19003-0129
	16~14 Blue	14/23	.250x.032 (6.35x0.81)	.160 (4.06)	WM18239-ND	2.96	23.70	98.75	19003-0040
		14/23	.250x.032 (6.35x0.81)	.160 (4.06)	WM18751CT-ND†	4.86	38.88	162.00	19003-0042
		14/23	.250x.032 (6.35x0.81)	.160 (4.06)	WM18751TR-ND‡	227.00/1,000			19003-0042
		14/23	.250x.032 (6.35x0.81)	.160 (4.06)	WM5929-ND	3.25	25.98	108.25	19003-0044
		14/23	.187x.020 (4.75x0.51)	.160 (4.06)	WM18240-ND	3.19	25.53	106.38	19003-0050
		23/29	.250x.032 (6.35x0.81)	.165 (4.19)	WM18765-ND	2.69	21.48	89.50	19005-0005
		14/25	.187x.020 (4.75x0.51)	.160 (4.06)	WM5927-ND	4.22	33.75	140.63	19003-0132
		14/25	.187x.032 (4.75x0.51)	.160 (4.06)	WM5930-ND	4.22	33.75	140.63	19003-0135
Insulkrimp - Female (Expanded Flare)									
2	12~10 Yellow	25/38	.250x.032 (6.35x0.81)	.275 (6.98)	WM18241-ND	4.23	33.84	141.00	19005-0010

† Cut Tape ‡ Tape and Reel ◊ TUV Rheinland Approved

Quick Disconnect Flags

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Avikrimp® - Female, Fully Pre-Insulated									
3	22~18 Red	9/25	.250x.032 (6.35x0.81)	.150 (3.81)	WM18242-ND	5.67	45.36	189.00	19006-0001
		9/25	.187x.020 (4.75x0.51)	.150 (3.81)	WM18245-ND	5.63	45.06	187.75	19006-0005
		9/25	.250x.032 (6.35x0.81)	.150 (3.81)	WM18752CT-ND†◊	7.73	61.86	—	19006-0003
		9/25	.250x.032 (6.35x0.81)	.150 (3.81)	WM18752TR-ND‡◊	90.25/250			19006-0003
	16~14 Blue	9/25	.250x.032 (6.35x0.81)	.170 (4.32)	WM18243-ND	5.74	45.90	191.25	19006-0011
		9/25	.187x.020 (4.75x0.81)	.170 (4.32)	WM18246-ND	5.85	46.77	194.88	19006-0015
	12~10 Yellow	10/25	.250x.032 (6.35x0.81)	.245 (6.22)	WM18244-ND	8.65	69.18	288.25	19006-0019
		10/25	.250x.032 (6.35x0.81)	.245 (6.22)	WM18244CT-ND†	—	142.28	—	19006-0020
		10/25	.250x.032 (6.35x0.81)	.245 (6.22)	WM18244TR-ND‡	155.50/250			19006-0020
Insulkrimp® - Female, Fully Insulated									
3	22~18 Red	11/25	.250x.032 (6.35x0.81)	.176 (4.47)	WM18247-ND	3.99	31.89	132.88	19007-0001
		11/25	.250x.032 (6.35x0.81)	.176 (4.47)	WM18753CT-ND†◊	5.77	46.14	—	19007-0004
		11/25	.250x.032 (6.35x0.81)	.176 (4.47)	WM18753TR-ND‡◊	67.25/250			19007-0004
		11/25	.187x.020 (4.75x0.81)	.176 (4.47)	WM18250-ND	3.95	31.62	131.75	19007-0009
	16~14 Blue	11/25	.250x.032 (6.35x0.81)	.200 (5.08)	WM18248-ND	4.00	31.98	133.25	19007-0021
		11/25	.250x.032 (6.35x0.81)	.200 (5.08)	WM18754CT-ND†◊	5.75	45.96	—	19007-0024
		11/25	.250x.032 (6.35x0.81)	.200 (5.08)	WM18754TR-ND‡◊	67.00/250			19007-0024
		11/25	.187x.020 (4.75x0.81)	.200 (5.08)	WM18251-ND	4.11	32.85	136.88	19007-0029
		11/25	.250x.032 (6.35x0.81)	.200 (5.08)	WM5931-ND	4.29	34.35	143.13	19007-0073
	12~10 Yellow	10/25	.250x.032 (6.35x0.81)	.260 (6.60)	WM18249-ND	5.49	43.92	183.00	19007-0040

† Cut Tape ‡ Tape and Reel ◊ TUV Rheinland Approved

Piggyback QDs Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
4	12~10 Yellow	37	.250 (6.35)	.277 (7.04)	WM18717-ND	6.06	48.51	202.13	19013-0033
	22~18 Red	5	.250 (6.35)	.136 (3.5)	WM18739-ND	5.90	47.19	196.63	19013-0025

(Continued)

Avikrimp® Nylon Insulated with Vibration Support Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Female									
5	22~18 Red	23	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18255-ND	3.05	24.39	101.63	19019-0012
		23	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18755CT-ND†	4.65	37.23	155.13	19019-0013
		23	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18755TR-ND‡	325.50/1,500			19019-0013
		23	.187 x .020 (4.7 x 0.5)	.115 (2.9)	WM18257-ND	3.11	24.84	103.50	19019-0006
		23	.110 x .032 (2.8 x 0.8)	.115 (2.9)	WM18259-ND	3.16	25.26	105.25	19019-0004
		23	.110 x .020 (2.8 x 0.5)	.115 (2.9)	WM18260-ND	3.50	27.99	116.63	19019-0001
	16~14 Blue	23	.110 x .020 (2.8 x 0.5)	.138 (3.5)	WM18261-ND	3.33	26.67	111.13	19019-0022
		23	.187 x .020 (4.7 x 0.5)	.138 (3.5)	WM18258-ND	3.09	24.75	103.13	19019-0027
		23	.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18262-ND	3.11	24.84	103.50	19019-0031
		23	.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18756CT-ND†	4.74	37.92	158.00	19019-0033
		23	.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18756TR-ND‡	331.50/1,500			19019-0033
	12~10 Yellow	18/23	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18256-ND	4.86	38.85	161.88	19019-0037
Male									
6	22~18 Red	12/22	.250 x .032 (6.3 x 0.8)	.140 (6.3)	WM18942-ND	2.96	23.67	98.63	19025-0001
	16~14 Blue	12/19/22	.250 x .032 (6.3 x 0.8)	.165 (4.19)	WM18944-ND	4.05	32.40	135.00	19025-0007
	12~10 Yellow	18/23	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18943-ND	4.59	36.72	153.00	19025-0005

† Cut Tape ‡ Tape and Reel

Snap Plugs

Fig.	AWG	Crimp Tool #	Diameter Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
7	22~18	12/22	.156 (3.96)	.140 (3.6)	WM18263-ND	3.60	28.80	120.00	19034-0005
	16~14	12/22	.156 (3.96)	.175 (4.4)	WM18264-ND	3.71	29.64	123.50	19034-0009
Avikrimp® (Nylon Insulation)									
8	22~18	12/22	.156 (3.96)	.140 (3.6)	WM18267-ND	3.80	30.39	126.63	19036-0003
	16~14	12/22	.156 (3.96)	.170 (4.3)	WM18268-ND	3.95	31.56	131.50	19036-0008

Snap Plug Receptacles

Fig.	AWG	Crimp Tool #	Snap Plug Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
9	22~18	20/27	.156 (3.96)	.128 (3.3)	WM18265-ND	2.81	22.44	93.50	19038-0001
	16~14	20/27	.156 (3.96)	.150 (3.8)	WM18266-ND	2.63	21.06	87.75	19038-0007
Avikrimp® (PVC Insulation)									
10	22~18	20/27	.156 (3.96)	.128 (3.3)	WM18269-ND	3.71	29.64	123.50	19039-0001
	16~14	20/27	.156 (3.96)	.150 (3.8)	WM18270-ND	3.59	28.71	119.63	19039-0006

Snap Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
11	22~18 Red	12/22	5-6	.145 (3.7)	.260 (6.6)	WM18315-ND	2.32	18.54	77.25	19099-0009
		12/22	8	.145 (3.7)	.310 (7.87)	WM18996-ND	2.51	20.04	83.50	19099-0013-C
		12/22	10	.145 (3.7)	.340 (8.6)	WM18317-ND	2.51	20.04	83.50	19099-0015
	16~14 Blue	12/22	5-6	.175 (4.4)	.260 (6.6)	WM18318-ND	2.32	18.57	77.38	19099-0027
		12/22	8	.175 (4.4)	.320 (8.1)	WM18319-ND	2.41	19.26	80.25	19099-0032
		12/22	10	.175 (4.4)	.340 (8.6)	WM18320-ND	2.43	19.41	80.88	19099-0034
		12/22	10	.175 (4.4)	.330 (8.4)	WM18714-ND	3.90	31.17	129.88	19099-0035-C
	12~10 Yellow	12/22	5-6	.250 (6.4)	.260 (6.6)	WM18321-ND	3.32	26.55	110.63	19099-0044
		12/22	10	.250 (6.4)	.340 (8.6)	WM18323-ND	3.83	30.66	127.75	19099-0050
Avikrimp® (Nylon Insulation)										
11	22~18 Red	12/22	5-6	.140 (3.6)	.260 (6.6)	WM18324-ND	3.36	26.88	112.00	19115-0009
		12/22	8	.140 (3.6)	.320 (8.1)	WM18327-ND	3.38	27.00	112.50	19115-0012
		12/22	10	.140 (3.6)	.340 (8.6)	WM18328-ND	3.40	27.18	113.25	19115-0014
	16~14 Blue	12/22	5-6	.170 (4.3)	.260 (6.6)	WM18329-ND	3.35	26.82	111.75	19115-0024
		12/22	8	.170 (4.3)	.320 (8.1)	WM18331-ND	3.44	27.51	114.63	19115-0079
		12/22	10	.170 (4.3)	.340 (8.6)	WM18332-ND	3.46	27.66	115.25	19115-0031
	12~10 Yellow	12/22	5-6	.225 (5.7)	.260 (6.6)	WM18333-ND	5.09	40.74	169.75	19115-0042
		12/22	8	.225 (5.7)	.310 (7.9)	WM18741-ND	5.33	42.65	177.69	19115-0046
		12/22	10	.225 (5.7)	.340 (8.6)	WM18335-ND	6.42	51.39	214.13	19115-0048

Standard Ring Tongue

Fig.	AWG	Crimp Tool #	Stud Size	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
12	22~18 Red	14/22	2	.235 (6.0)	WM18271-ND	1.52	12.12	50.50	19070-0005
		14/22	4	.235 (6.0)	WM18272-ND	1.52	12.12	50.50	19070-0007
		14/22	6	.264 (6.7)	WM18273-ND	1.82	14.55	60.63	19070-0040
		14/22	6	.264 (6.7)	WM18273TR-ND‡	240.00/1,500			19070-0042
		14/22	8	.264 (6.7)	WM19145CT-ND†	3.60	28.77	119.88	19070-0045
12	22~18 Red	14/22	8	.264 (6.7)	WM19145TR-ND‡	252.00/1,500			19070-0045
		14/22	8	.322 (8.2)	WM18274TR-ND‡	229.50/1,500			19070-0014
		14/22	10	.322 (8.2)	WM18275-ND	1.64	13.14	54.75	19070-0015
		14/22	10	.322 (8.2)	WM18275TR-ND‡	229.50/1,500			19070-0017
		14/22	1/4	.477 (12.1)	WM18276-ND	2.65	21.21	88.38	19070-0023
		14/22	1/4	.477 (12.1)	WM18276TR-ND‡	294.00/1,500			19070-0024
		14/22	5/16	.477 (12.1)	WM18277-ND	2.65	21.21	88.38	19070-0026
		14/22	3/8	.544 (13.8)	WM18278-ND	2.79	22.35	93.13	19070-0033
	16~14 Blue	14/22	4	.260 (6.6)	WM18279-ND	1.83	14.67	61.13	19070-0067
		14/22	6	.260 (6.6)	WM18280-ND	1.83	14.67	61.13	19070-0069
		14/22	8	.322 (8.2)	WM18281-ND	1.74	13.92	58.00	19070-0086
		14/22	8	.322 (8.2)	WM18281TR-ND‡	178.50/1,500			19070-0087
		14/22	10	.322 (8.2)	WM18282-ND	1.74	13.92	58.00	19070-0090
		14/22	10	.322 (8.2)	WM18282TR-ND‡	178.50/1,500			19070-0092
		14/22	10	.352 (8.9)	WM19146-ND	1.64	13.14	54.75	19070-0102
		14/22	1/4	.477 (12.1)	WM18283-ND	2.09	16.71	69.63	19070-0075
		14/22	1/4	.477 (12.1)	WM18283TR-ND‡	136.00/1,000			19070-0076
		14/22	5/16	.477 (12.1)	WM18284-ND	2.09	16.71	69.63	19070-0078
		14/22	3/8	.544 (13.8)	WM18285-ND	3.00	24.00	100.00	19070-0059
	12~10 Yellow	14/22	6	.282 (7.2)	WM18286-ND	3.47	27.72	115.50	19070-0143
		14/22	8	.282 (7.2)	WM18287-ND	3.47	27.72	115.50	19070-0145
		14/22	8	.375 (9.5)	WM19147-ND	2.90	23.16	96.50	19070-0121
		14/22	10	.375 (9.5)	WM18288-ND	3.14	25.14	104.75	19070-0123
		14/22	10	.375 (9.5)	WM18288TR-ND‡	236.00/1,000			19070-0125
		14/22	1/4	.530 (13.5)	WM18289-ND	3.73	29.82	124.25	19070-0132
		14/22	1/4	.530 (13.5)	WM18289TR-ND‡	134.00/500			19070-0133
		14/22	5/16	.530 (13.5)	WM18290-ND	3.73	29.82	124.25	19070-0136
		14/22	3/8	.592 (15.0)	WM18291-ND	4.09	32.73	136.38	19070-0153
		14/22	3/8	.592 (15.0)	WM18291TR-ND‡	162.00/500			19070-0154
		14/22	1/2	.750 (19.1)	WM18292-ND	5.55	44.43	185.13	19070-0109
Avikrimp® (Nylon Insulation)									
12	22~18 Red	14/22	2	.230 (5.8)	WM18293-ND	2.96	23.70	98.75	19073-0005
		14/22	4	.230 (5.8)	WM18294-ND	2.96	23.70	98.75	19073-0007
		14/22	6	.230 (5.8)	WM19141-ND	2.72	21.78	90.75	19073-0009
		14/22	6	.250 (6.4)	WM18295-ND	2.96	23.64	98.50	19073-0038
		14/22	8	.250 (6.4)	WM19142-ND	2.72	21.75	90.63	19073-0042
		14/22	8	.250 (6.4)	WM19142TR-ND‡	343.50/1,500			19073-0043
		14/22	8	.310 (7.9)	WM18296-ND	3.11	24.90	103.75	19073-0013
		14/22	8	.310 (7.9)	WM18296TR-ND‡	318.00/1,500			19073-0015
		14/22	10	.310 (7.9)	WM18297-ND	3.11	24.90	103.75	19073-0017
		14/22	10	.310 (7.9)	WM18297TR-ND‡	318.00/1,500			19073-0019
		14/22	1/4	.470 (12.0)	WM18298-ND	3.62	28.92	120.50	19073-0024
		14/22	1/4	.470 (12.0)	WM18298TR-ND‡	384.00/1,500			19073-0026
		14/22	5/16	.470 (12.0)	WM18299-ND	3.62	28.92	120.50	19073-0027
		14/22	3/8	.540 (13.7)	WM18300-ND	4.03	32.25	134.38	19073-0032
	16~14 Blue	14/22	4	.270 (6.9)	WM18301-ND	3.17	25.35	105.63	19073-0065
		14/22	6	.270 (6.9)	WM18302-ND	3.17	25.35	105.63	19073-0067
		14/22	6	.270 (6.9)	WM18302TR-ND‡	261.00/1,500			19073-0070
		14/22	8	.322 (8.2)	WM18303-ND	3.27	26.16	109.00	19073-0085
		14/22	8	.322 (8.2)	WM18303TR-ND‡	262.50/1,500			19073-0086
		14/22	10	.322 (8.2)	WM18304-ND	3.27	26.16	109.00	19073-0087
		14/22	10	.322 (8.2)	WM18304TR-ND‡	262.50/1,500			19073-0088
		14/22	1/4	.477 (12.1)	WM18305-ND	3.51	28.08	117.00	19073-0076
		14/22	1/4	.477 (12.1)	WM18305TR-ND‡	218.00/1,000			19073-0077
		14/22	5/16	.477 (12.1)	WM18306-ND	3.51	28.08	117.00	19073-0079
		14/22	3/8	.544 (13.8)	WM18307-ND	4.11	32.85	136.88	19073-0059
		14/22	6	.322 (8.2)	WM19143-ND	3.01	24.06	100.25	19073-0083
	12~10 Yellow	11/22	6	.292 (7.4)	WM18308-ND	5.38	43.05	179.38	19073-0216
		11/22	8	.292 (7.4)	WM18309-ND	5.38	43.05	179.38	19073-0222
		14/22	8	.385 (9.8)	WM19144-ND	4.73	37.86	157.75	19073-0165
		14/22	10	.385 (9.8)	WM18310-ND	5.15	41.16	171.50	19073-0170
		14/22	10	.385 (9.8)	WM18310TR-ND‡	286.00/1,000			19073-0172
		14/22	1/4	.540 (13.7)	WM18311-ND	5.73	45.81	190.88	19073-0188
		14/22	1/4	.540 (13.7)	WM18311TR-ND‡	363.00/1,000			19073-0190
		14/22	5/16	.540 (13.7)	WM18312-ND	5.73	45.81	190.88	19073-0200
		14/22	3/8	.602 (15.3)	WM18313-ND	6.09	48.72	203.00	19073-0236
		14/22	1/2	.760 (19.3)	WM18314-ND	7.55	60.42	251.75	19073-0145
VersaKrimp™ (Non-Insulated)									
12	12~10	17	10	.385 (9.78)	WM19116-ND	3.26	18.73	74.90	19193-0109
	12~10	17	1/4	.540 (13.72)	WM19117-ND	3.32	26.55	110.63	19193-0116
	12~10	17	3/8	.598 (15.19)	WM19118-ND	4.22	33.75	140.63	19193-0137
	8	39/40	10	.483 (12.26)	WM19119-ND	5.15	41.22	171.75	19193-0149
	8	39/40	1/4	.483 (12.26)	WM19120-ND	5.15	41.22	171.75	19193-0152
	8	39/40	3/8	.598 (15.19)	WM19121-ND	5.49	43.92	183.00	19193-0167
	8	39/40	5/16	.598 (15.19)	WM19122-ND	5.49	43.92	183.00	19193-0171
	8	39/40	10	.379 (9.63)	WM19123-ND	5.25	41.97	174.88	19193-0202
	6	39	1/4	.645 (16.38)	WM19124-ND	7.15	57.21	238.38	19193-0212
	6	39	3/8	.645 (16.38)	WM19125-ND	6.85	54.78	228.25	19193-0216
	6	39	5/16	.645 (16.38)	WM19126-ND	7.02	56.19	234.13	19193-0219
	6	39	1/2	.837 (21.26)	WM19127-ND	9.47	75.72	315.50	19193-0226
	6	39	10	.485 (12.32)	WM19128-ND	6.42	51.36	214.00	19193-0245
	6	39	1/4	.485 (12.32)	WM19129-ND	6.75	54.03	225.13	19193-0248
	4	39	1/4	.652 (16.56)	WM19130-ND	12.72	101.76	424.00	19193-0261
	4	39	3/8	.652 (16.56)	WM19131-ND	12.72	101.76	424.00	19193-0264
	4	39	5/16	.652 (16.56)	WM19132-ND	12.72	101.76	424.00	19193-0267
	4	39	10	.465 (11.81)	WM19133-ND	12.15	97.20	405.00	19193-0273
	4	39	1/4	.465 (11.81)	WM19134-ND	12.15	97.20	405.00	19193-0275
	4	39	1/2	.875 (22.23)	WM19135-ND	18.81	150.45	626.88	19193-0281
	2	—	1/2	.879 (22.33)	WM19136-ND	19.62	156.96	654.00	19193-0296
	2	39	1/4	.645 (16.38)	WM19137-ND	18.05	144.36	601.50	19193-0305
	2	39	3/8	.645 (16.38)	WM19138-ND	18.05	144.36	601.50	19193-0307
	2	39	5/16	.645 (16.38)	WM19139-ND	18.05	144.36	601.50	19193-0309

† Cut Tape ‡ Tape and Reel

(Continued)

Flanged Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
13	22~18 Red	14/22	5-6	.145 (3.7)	.301 (7.6)	WM18336-ND	2.77	22.17	92.38	19121-0005
		14/22	8	.145 (3.7)	.301 (7.6)	WM18337-ND	2.77	22.17	92.38	19121-0007
		14/22	10	.145 (3.7)	.301 (7.6)	WM18338-ND	2.34	18.69	77.88	19121-0009
	16~14 Blue	14/22	5-6	.175 (4.4)	.301 (7.6)	WM18339-ND	2.82	22.59	94.13	19121-0026
		14/22	8	.175 (4.4)	.301 (7.6)	WM18340-ND	2.72	21.72	90.50	19121-0028
		14/22	10	.175 (4.4)	.301 (7.6)	WM18341-ND	2.39	19.08	79.50	19121-0030
	12~10 Yellow	14/22	8	.250 (6.4)	.385 (9.8)	WM18342-ND	3.65	29.16	121.50	19121-0053
		14/22	10	.250 (6.4)	.385 (9.8)	WM18343-ND	5.46	43.68	182.00	19121-0056
Avikrimp® (Nylon Insulation)										
13	22~18 Red	14/22	5-6	.140 (3.6)	.301 (7.6)	WM18344-ND	4.14	33.09	137.88	19127-0007
		14/22	10	.140 (3.6)	.301 (7.6)	WM18346-ND	4.47	35.79	149.13	19127-0012
	16~14 Blue	14/22	5-6	.170 (4.3)	.301 (7.6)	WM18347-ND	3.70	29.58	123.25	19127-0039
		14/22	8	.170 (4.3)	.301 (7.6)	WM18348-ND	3.68	29.43	122.63	19127-0042
		14/22	10	.170 (4.3)	.301 (7.6)	WM18349-ND	4.65	37.20	155.00	19127-0099
	12~10 Yellow	14/22	8	.225 (5.7)	.385 (9.8)	WM18350-ND	4.99	39.90	166.25	19127-0086-C
		14/22	10	.225 (5.7)	.385 (9.8)	WM18351-ND	4.97	39.72	165.50	19127-0089

Wire Pin Terminals

Fig.	AWG	Crimp Tool #	Pin Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Krimptite® (Non-insulated)									
14	22~18	17	.08 (2.03)	—	WM18374-ND	1.62	12.93	53.88	19211-0003
	16~14	17	.08 (2.03)	—	WM18375-ND	1.69	13.53	56.38	19211-0005
	12~10	17	.12 (3.05)	—	WM18376-ND	2.60	20.82	86.75	19211-0001
Insulkrimp® (PVC Insulation)									
15	22~18 Red	14/22	.08 (2.03)	.145 (3.68)	WM18377-ND	2.90	23.19	96.63	19212-0003
	16~14 Blue	14/22	.08 (2.03)	.175 (4.44)	WM18378-ND	3.12	24.99	104.13	19212-0005
	12~10 Yellow	14/22	.12 (3.05)	.25 (6.35)	WM18379-ND	4.09	32.73	136.38	19212-0001
Avikrimp® (Nylon Insulation)									
16	22~18 Red	14/22	.08 (2.03)	.14 (3.56)	WM18380-ND	4.57	36.54	152.25	19213-0009
	16~14 Blue	14/22	.08 (2.03)	.17 (4.32)	WM18381-ND	4.31	34.47	143.63	19213-0011
	12~10 Yellow	14/22	.12 (3.05)	.225 (5.71)	WM18382-ND	5.86	46.86	195.25	19213-0007

Spade Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
17	22~18 Red	14/22	5-6	.145 (3.7)	.326 (8.3)	WM18352-ND	2.33	18.63	77.63	19144-0001
		14/22	8	.145 (3.7)	.326 (8.3)	WM18353-ND	2.33	18.63	77.63	19144-0003
		14/22	10	.145 (3.7)	.326 (8.3)	WM18354-ND	2.33	18.63	77.63	19144-0005
	16~14 Blue	14/22	5-6	.175 (4.4)	.305 (7.7)	WM18355-ND	2.01	16.11	67.13	19144-0018
		14/22	8	.175 (4.4)	.305 (7.7)	WM18356-ND	2.14	17.13	71.38	19144-0020
		14/22	8	.175 (4.4)	.372 (9.4)	WM18357-ND	2.32	18.57	77.38	19144-0024
		14/22	10	.175 (4.4)	.372 (9.4)	WM18358-ND	2.32	18.57	77.38	19144-0026
	12~10 Yellow	14/22	5-6	.250 (6.4)	.385 (9.8)	WM18359-ND	3.35	26.82	111.75	19144-0037
		14/22	8	.250 (6.4)	.385 (9.8)	WM18360-ND	3.35	26.82	111.75	19144-0039
		14/22	10	.250 (6.4)	.385 (9.8)	WM18361-ND	3.35	26.82	111.75	19144-0042
Avikrimp® (Nylon Insulation)										
17	22~18 Red	14/22	5-6	.140 (3.6)	.326 (8.3)	WM18363-ND	3.19	25.53	106.38	19198-0070
		14/22	8	.140 (3.6)	.326 (8.3)	WM18364-ND	3.19	25.53	106.38	19198-0004
		14/22	10	.140 (3.6)	.326 (8.3)	WM18365-ND	3.19	25.53	106.38	19198-0006
	16~14 Blue	14/22	5-6	.170 (4.3)	.305 (7.7)	WM18366-ND	3.04	24.33	101.38	19198-0016
		14/22	8	.170 (4.3)	.305 (7.7)	WM18367-ND	3.04	24.33	101.38	19198-0019
		14/22	10	.170 (4.3)	.372 (9.4)	WM18369-ND	3.33	26.64	111.00	19198-0025-C
	12~10 Yellow	14/22	5-6	.225 (5.7)	.385 (9.8)	WM18370-ND	5.36	42.87	178.63	19198-0044
		14/22	8	.225 (5.7)	.385 (9.8)	WM18371-ND	5.36	42.87	178.63	19198-0047
		14/22	10	.225 (5.7)	.385 (9.8)	WM18372-ND	5.36	42.87	178.63	19198-0050

Perma-Seal™ – All Weather, Heat-Sealable NiAc™ Terminals and Splices

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
Ring								
18	22~18 Red	1/26	6	WM18397-ND	6.76	54.09	225.38	19164-0085
		1/26	8	WM18398-ND	6.76	54.09	225.38	19164-0086
		1/26	10	WM18399-ND	6.76	54.09	225.38	19164-0003
		1/26	1/4	WM18400-ND	7.80	62.37	259.88	19164-0004
		1/26	3/8	WM18401-ND	8.15	65.16	271.50	19164-0005
	16~14 Blue	1/26	6	WM18402-ND	7.25	57.96	241.50	19164-0032
		1/26	8	WM18403-ND	7.25	57.96	241.50	19164-0033
		1/26	10	WM18404-ND	7.25	57.96	241.50	19164-0034
		1/26	1/4	WM18405-ND	7.63	61.05	254.38	19164-0026
		1/26	5/16	WM18406-ND	7.63	61.05	254.38	19164-0027
	12~10 Yellow	1/26	6	WM18408-ND	8.54	68.31	284.63	19164-0061
		1/26	8	WM18409-ND	8.54	68.31	284.63	19164-0062
		1/26	10	WM18410-ND	9.16	73.26	305.25	19164-0065
		1/26	1/4	WM18411-ND	9.16	73.26	305.25	19164-0066
		1/26	5/16	WM18412-ND	9.16	73.26	305.25	19164-0067
		1/26	3/8	WM18413-ND	9.54	76.32	318.00	19164-0068
		1/26	1/2	WM18414-ND	10.79	86.31	359.63	19164-0058
Spade								
19	22~18 Red	1/26	6	WM18415-ND	7.16	57.27	238.63	19164-0006
		1/26	8	WM18416-ND	7.16	57.27	238.63	19164-0007
		1/26	10	WM18417-ND	7.16	57.27	238.63	19164-0008
	16~14 Blue	1/26	6	WM18418-ND	7.70	61.56	256.50	19164-0028
		1/26	8	WM18419-ND	7.70	61.56	256.50	19164-0029
		1/26	10	WM18420-ND	7.70	61.56	256.50	19164-0030
	12~10 Yellow	1/26	6	WM18421-ND	8.67	69.33	288.88	19164-0069
		1/26	8	WM18422-ND	8.69	69.54	289.75	19164-0070

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
Butt Splices								
20	22~18 Red	1/26	—	WM18425-ND	5.74	45.90	191.25	19164-0013
	16~14 Blue	1/26	—	WM18426-ND	6.50	52.02	216.75	19164-0044
		1/26	—	WM18426CT-ND†	—	118.40	—	19164-0045
		1/26	—	WM18426TR-ND‡	259.00/500			19164-0045
	12~10 Yellow	1/26	—	WM18427-ND	10.31	82.47	343.63	19164-0056
21	8 Red	39/40	—	WM18727-ND	17.91	143.25	596.88	19164-0079
Quick Disconnect Couplers - Male								
22	22~18 Red	3/27	.250 (6.35)	WM18428-ND	8.48	67.83	282.63	19164-0015
	16~14 Blue	3/27	.250 (6.35)	WM18430-ND	8.83	70.65	294.38	19164-0048
	12~10 Yellow	21	.250 (6.35)	WM18432-ND	12.11	96.84	403.50	19164-0075
23	—	—	.250 (6.35)	WM18724-ND	6.27	50.16	209.00	19164-0019
	—	—	.250 (6.35)	WM18725-ND	6.65	53.16	221.50	19164-0084
	—	—	.250 (6.35)	WM18726-ND	7.77	62.19	259.13	19164-0078
Quick Disconnect Couplers - Female								
24	22~18 Red	3/27	.250 (6.35)	WM18429-ND	8.73	69.87	291.13	19164-0017
	16~14 Blue	3/27	.250 (6.35)	WM18431-ND	8.88	71.07	296.13	19164-0050
	12~10 Yellow	21	.250 (6.35)	WM18433-ND	12.45	99.63	415.13	19164-0076
25	22~18 Red	15/38	.250 (6.35)	WM18721-ND	6.17	49.32	205.50	19164-0012
	16~14 Blue	14/38	.250 (6.35)	WM18722-ND	6.47	51.75	215.63	19164-0047
	12~10 Yellow	—	.250 (6.35)	WM18723-ND	7.21	57.66	240.25	19164-0059

† Cut Tape ‡ Tape and Reel

Step Down Butt Connectors

Fig.	AWG	Crimp Tool #	Insulation Color	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
26	16/14 ~ 22/18	17/22	Non-Insulated	WM18389-ND	7.68	61.44	256.00	19215-0013
	12/10 ~ 16/14	12/22	Non-Insulated	WM18390-ND	9.32	74.52	310.50	19215-0023
27	16/14 ~ 22/18	12/22	Blue with Red Stripe	WM18391-ND	8.22	65.73	273.88	19154-0022
	12/10 ~ 16/14	12/22	Yellow with Blue Stripe	WM18392-ND	9.78	78.27	326.13	19154-0035
	12/10 ~ 16/14	3	Yellow with Blue Stripe	WM18950-ND	13.43	107.46	447.75	19164-0077

Nylon-Insulated, Closed-End Connectors

Fig.	AWG	Crimp Tool #	Outside Diameter Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
28	22~14	25	.31 (7.8)	WM18393-ND	1.33	10.65	44.38	19160-0012
	22~12	6/25	.35 (8.9)	WM18394-ND	1.46	11.70	48.75	19160-0009
	16~10	25	.44 (11.2)	WM18395-ND	1.93	15.45	64.38	19160-0002
	8	7/25/40	.56 (14.2)	WM18396-ND	4.17	33.36	139.00	19160-0024

Heavy Duty Ring Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Dimensions – Inch (mm)		Digi-Key Part No.	Pricing			Molex Part No.
				Length	Width		1	10	100	
29	8	16/40	10	1.187 (30.15)	.438 (11.13)	WM5932-ND	1.03	8.50	60.70	19221-0223
	8	16/40	1/4	1.187 (30.15)	.438 (11.13)	WM5933-ND	1.09	9.00	64.30	19221-0224
	8	16/40	5/16	1.187 (30.15)	.438 (11.13)	WM5934-ND	1.37	11.30	80.70	19221-0225
	8	16/40	3/8	1.313 (33.35)	.594 (15.09)	WM5935-ND	1.68	13.87	99.10	19221-0226
	6	16	1/4	1.406 (35.72)	.594 (15.09)	WM5936-ND	1.76	14.53	103.78	19221-0227
	6	16	5/16	1.406 (35.72)	.594 (15.09)	WM5937-ND	1.43	11.77	84.05	19221-0228
	6	16	3/8	1.406 (35.72)	.594 (15.09)	WM5938-ND	1.58	13.03	93.10	19221-0229
	4	16	1/4	1.500 (38.10)	.531 (13.49)	WM5939-ND	1.67	13.78	98.45	19221-0230
	4	16	5/16	1.500 (38.10)	.531 (13.49)	WM5940-ND	1.76	14.52	103.70	19221-0231
	4	16	3/8	1.500 (38.10)	.531 (13.49)	WM5941-ND	1.71	14.05	100.35	19221-0232
	2	16	5/16	1.625 (41.28)	.625 (15.88)	WM5942-ND	2.00	16.47	117.63	19221-0233
	2	16	3/8	1.625 (41.28)	.625 (15.88)	WM5943-ND	2.33	19.21	137.23	19221-0235
	2	16	1/2	1.750 (44.45)	.750 (19.05)	WM5944-ND	3.17	26.09	186.38	19221-0236
	1	16	3/8	1.718 (43.64)	.656 (16.66)	WM5946-ND	2.37	19.54	139.58	19221-0238
	1/0	16	5/16	1.844 (46.84)	.718 (18.24)	WM5948-ND	3.10	25.53	182.35	19221-0240
	1/0	16	3/8	1.844 (46.84)	.718 (18.24)	WM5949-ND	2.89	23.82	170.18	19221-0241
	1/0	16	1/2	1.844 (46.84)	.718 (18.24)	WM5950-ND	2.89	23.82	170.18	19221-0242
	2/0	16	5/16	2.062 (52.37)	.813 (20.65)	WM5951-ND	3.27	26.97	192.63	19221-0243
	2/0	16	3/8	2.062 (52.37)	.813 (20.65)	WM5952-ND	3.82	31.43	224.53	19221-0244
	2/0	16	1/2	2.062 (52.37)	.813 (20.65)	WM5953-ND	3.41	28.09	200.68	19221-0245
	3/0	16	5/16	2.156 (54.76)	.906 (23.01)	WM5954-ND	4.70	38.67	276.23	19221-0246
	3/0	16	1/2	2.156 (54.76)	.906 (23.01)	WM5956-ND	4.70	38.67	276.23	19221-0248
	4/0	16	3/8	2.344 (59.54)	.984 (24.99)	WM5957-ND	6.67	54.91	392.20	19221-0250
	4/0	16	1/2	2.344 (59.54)	.984 (24.99)	WM5958-ND	6.61	54.45	388.90	19221-0251

Butt Splices

Fig.	AWG	Crimp Tool #	Outside Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
Insulkrimp® (PVC Insulation)								
30	22~18	12/22	.135 (3.4)	WM18383-ND	2.12	16.92	70.50	19154-0004
	16~14	12/22	.160 (4.1)	WM18384-ND	1.99	15.93	66.38	19154-0015
	12~10	12/22	.220 (5.6)	WM18385-ND	3.17	25.32	105.50	19154-0028
Nylakrimp® (Nylon Insulation)								
31	22~18	—	.130 (3.3)	WM18731-ND	1.94	15.51	64.63	19202-0013
	16~14	13	.160 (4.1)	WM18732-ND	2.24	17.94	74.75	19202-0031
	12~10	13	.223 (5.7)	WM18733-ND	4.24	33.93	141.38	19202-0049

Window Butt Splices

Fig.	AWG	Crimp Tool #	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
32	22~18 Red	22	.140 (3.56)	WM18386-ND	11.27	90.15	375.63	19199-0007
	16~14 Blue	22	.170 (4.32)	WM18387-ND	9.43	75.42	314.25	19199-0009

(Continued)

Splice Connectors

Fig.	Description	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
	See and Splice™ 4 Circuit Push-In Wire Connectors					
33	2 Port, Red, 12AWG ~ 22AWG	WM23953-ND	2.58	20.61	85.88	19430-0001
	3 Port, Orange, 12AWG ~ 22AWG	WM23954-ND	3.78	30.27	126.13	19430-0002
	4 Port, Yellow, 12AWG ~ 22AWG	WM23955-ND	4.38	35.07	146.13	19430-0003
	Parallel Solder Splice Connector					
34	Clear, 24AWG ~ 26AWG 1.50”	WM23945-ND	10.38	83.07	346.13	19164-0162
	Red, 22AWG ~ 18AWG 1.50”	WM23946-ND	9.78	78.21	325.88	19164-0163
	Blue, 14AWG ~ 16AWG 1.50”	WM23947-ND	9.77	78.15	325.63	19164-0164
	Yellow, 10AWG ~ 12AWG 1.50”	WM23948-ND	10.79	86.28	359.50	19164-0165
	Twist Lock Splice Connector					
35	Blue, 14AWG ~ 22AWG	WM23949-ND	.41	3.30	13.75	19160-0040
	Orange, 14AWG ~ 22AWG	WM23950-ND	.55	4.41	18.38	19160-0041
	Yellow, 10AWG ~ 22AWG	WM23951-ND	.86	6.90	28.75	19160-0042
	Red, 8AWG ~ 22AWG	WM23952-ND	1.40	11.19	46.63	19160-0043

Wire Taps

Fig.	Description	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
	Standard Wire Taps					
36	Conn. Wire Tap, Yellow 12AWG	WM18919-ND	2.90	23.19	96.63	19216-0019
	Conn. Wire Tap, Blue 14AWG ~ 18AWG	WM18917-ND	2.55	20.37	84.88	19216-0017
	Conn. Wire Tap, Red 18AWG ~ 22AWG	WM18918-ND	2.55	20.37	84.88	19216-0018
	Ultimate Wire Taps (Accepts 0.25” male quick disconnect tab)					
36	Conn. Wire Tap, Yellow 12AWG	WM18914-ND	5.94	47.55	198.13	19216-0009
	Conn. Wire Tap, Blue 14AWG ~ 18AWG	WM18915-ND	5.94	47.55	198.13	19216-0010
	Conn. Wire Tap, Red 18AWG ~ 22AWG	WM18916-ND	5.94	47.55	198.13	19216-0011
	Multi-Lock Wire Taps					
37	Conn. Wire Tap, Yellow 10AWG ~ 12AWG	WM18734-ND	2.45	19.56	81.50	19216-0002
	Conn. Wire Tap, Blue 14AWG ~ 16AWG	WM18735-ND	1.55	12.36	51.50	19216-0003
	Conn. Wire Tap, White 14AWG ~ 18AWG	WM18736-ND	1.55	12.36	51.50	19216-0004
	Conn. Wire Tap, Red 18AWG ~22AWG	WM18737-ND	1.55	12.36	51.50	19216-0005
	Perma-Fit Heat Shrink Tubing					
38	PVC Heat Shrink, Black with Adhesive Liner	WM18728-ND		3.69/1		19269-0239

Crimp Tools

Crimp Tool #	Description	Digi-Key Part No.	Price Each	Molex Part No.
	Premium			
1	Sealed Ring, Spade and Butt	WM9012-ND	335.16	64001-7400
3	Sealed, 10AWG ~ 22AWG .250” (6.35mm)	WM9976-ND	251.37	64001-4500
4	10AWG ~ 12AWG .250” (6.35mm)	WM17466-ND	287.28	64001-4600
5	Piggyback Quick Disconnects Hand Crimper, 10AWG ~ 22AWG	WM1619-ND	251.37	64001-6300
6	Splice, 12AWG ~ 22AWG	WM9977-ND	251.37	64001-0900
7	Splice, 8AWG	WM9015-ND	287.28	64001-2500
8	Butt Splice, 10AWG ~ 12AWG	WM17468-ND	251.37	64001-1500
9	Flag QDs .187” and .250” (4.75mm and 6.35mm)	WM18524-ND	264.60	64001-4300
10	Flag QDs .250” (6.35mm), 10AWG ~ 12AWG	WM18589-ND	287.28	64001-2800
11	Flag QDs .187” (4.75mm)	WM17467-ND	251.37	64001-4100
12	Terminals/Splices, 10AWG ~ 22AWG	WM9952-ND	233.42	64001-0100
13	Snap Plug / Ringterm, 10AWG ~ 22AWG	WM1620-ND	275.31	64001-0300
14	14 ~ 16AWG .187” and .250” (4.75mm and 6.35mm)	WM9972-ND	287.28	64001-1000
15	InsulKrimp® Hand Crimper, 1AWG8 ~ 22AWG	WM9992-ND	287.28	64001-0700
16	Ringterm, 8AWG ~ 4/0AWG	WM5980-ND	109.90	19284-0034
17	Wire Pins, 10AWG ~ 22AWG	WM9974-ND	226.23	64003-0100
18	Quick Connects, 10AWG ~ 22AWG	WM9965-ND	233.42	64001-0200
19	Snap Plug, 14AWG ~ 22AWG	WM9966-ND	251.37	64001-1400
20	Snap Plug, 18AWG ~ 22AWG	WM18540-ND ***NEW!***	287.28	64001-2300
21	Perma-Seal™ Quick Disconnect Hand Crimper, 10AWG ~ 12AWG	WM9939-ND	299.25	64001-6100
28	AviKrimp® Hand Crimper, 18AWG ~ 22AWG	WM9995-ND	251.37	64001-0800
29	Hand Crimper, 14AWG ~ 22AWG	WM9993-ND	287.28	64001-4700
30	Hand Crimper, 10AWG ~ 12AWG	WM9994-ND	287.28	64001-5100
33	Manual Wire Stripper	WM9969-ND	63.00	63817-0000
36	Hand Crimper, 24AWG ~ 26AWG	WM18945-ND	287.28	64001-5200
37	Piggyback Quick Disconnects Hand Crimper, 10AWG ~ 22AWG	WM1616-ND	251.37	64001-6200
38	Quick Disconnect, 10AWG ~ 22AWG	WM1622-ND	275.31	64001-0400
39	Hand Crimper, 2AWG ~ 8AWG	WM19140-ND	311.22	64001-3900
	Service			
22	Terminal/Splices, 10AWG ~ 22AWG	WM9985-ND	30.00	64016-0036
23	Quick Disconnects, 10AWG ~ 22AWG	WM9986-ND	47.25	64016-0037
25	Closed End Connectors - (Non-Ratchet Style Tool)	WM9988-ND	9.20	64016-0039
26	Sealed Ring, Spade and Butt, 10AWG ~ 22AWG	WM9989-ND	30.00	64016-0041
27	Sealed Quick Disconnects, 10AWG ~ 22AWG	WM9990-ND ***NEW!***	28.00	64016-0042
34	Hand Crimper 8.5” with Logo	WM18729-ND	5.80	19294-0062
35	Hand Crimper, 10AWG ~ 22AWG	WM18730-ND	14.99	19294-0003
—	ServiceGrade™ Economy Cable Tie Tool	WM5128-ND ***NEW!***	15.30	0192940002
—	Extractor Tool for .059” (1.5mm) CP Crimp Terminals	WM5149-ND ***NEW!***	50.40	0638132300
	NEW! Manual NEW!			
40	Manual Crimping Tool, 8AWG	WM5129-ND	30.60	0192940008

Kits

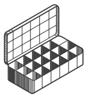

WM8403-ND	(76650-0031) **Solderless Terminals**; (Assorted Insulated and PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Terminals with Universal Crimping Tool)	**$32.36**
WM8414-ND	(76650-0030) **Solderless Terminals**; (Assorted Insulated and Non-Insulated and PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Terminals with Universal Crimping Tool)	**$28.80**
WM8406-ND	(76650-0043) **Solderless Terminal Kit**; (Assorted PVC Insulated Quick Disconnect, Ring, Spade, Butt Splice and Multi-Lock Terminals. Nylon Fully Insulated Quick Disconnect and Nylon Closed-End Terminals with Crimp Tool)	**$40.23**
WM8422-ND	(76650-0039) **Solderless Terminal Kit**; (Assorted PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Terminals. Nylon Insulated Closed-End Solderless Terminals with Universal Crimping Tool)	**$11.54**
WM8423-ND	(76650-0040) **Solderless Terminal Kit**; (Assorted PVC Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals with Universal Crimping Tool)	**$12.07**
WM8410-ND	(76650-0038) **Solderless Terminal Kit**; (Assorted Non-Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals with Universal Crimping Tool)	**$45.83**
WM8413-ND	(76650-0036) **Solderless Terminal Kit**; (Assorted Non-Insulated .250" Quick Disconnect Ring, Spade, Butt Splice and Terminal with Universal Crimp Tool)	**$14.65**
WM8420-ND	(76650-0035) **Solderless Terminal Kit**; (Assorted Non-Insulated .250" Quick Disconnect Ring, Spade, Butt Splice and Hook Terminal with Universal Crimp Tool)	**$12.67**
WM8417-ND	(76650-0029) **Solderless Terminal Kit**; (Assorted Non-Insulated Quick Disconnect, Ring, Spade and Butt Splice Solderless Terminals. Nylon Insulated Closed-End Solderless Terminals with Universal Crimping Tool)	**$23.93**
WM8408-ND	(76650-0028) **Solderless Terminal Kit**; (.110", .187" and .250" Tab Size Non-Insulated and PVC Insulated Quick Disconnect Solderless Terminals with Universal Crimp Tool)	**$21.78**
WM8425-ND	(76650-0042) **Solderless Terminal Kit**; (.187" Tab Size PVC and Nylon Insulated Quick Disconnect Solderless Terminals)	**$9.68**
WM8427-ND	(76650-0046) **Solderless Terminal Kit**; (.187" Tab Size Nylon Insulated and Fully Insulated Quick Disconnect Solderless Terminals)	**$10.08**
WM8411-ND	(76650-0044) **Solderless Terminal Kit**; (.250" Tab Size Nylon Fully Insulated Quick Disconnect Solderless Terminals)	**$13.28**
WM8426-ND	(76650-0045) **Solderless Terminal Kit**; (.250" Tab Size Nylon Fully Insulated Quick Disconnect Solderless Terminals with Universal Crimp Tool)	**$34.20**
WM8421-ND	(76650-0037) **Solderless Terminal Kit**; (.250" Tab Size Non-Insulated Quick Disconnect Solderless Terminals)	**$13.49**
WM8415-ND	(76650-0034) **Solderless Terminal Kit**; (.250" Tab Size Non-Insulated Quick Disconnect Solderless Terminals)	**$7.21**
WM8424-ND	(76650-0041) **Solderless Terminal Kit**; (.250" Tab Size PVC Insulated Quick Disconnect Solderless Terminals)	**$12.77**
WM8476-ND	(76650-0153) **Solderless Terminal Kit**; (Nylon Insulated .250" Tab Size Quick Disconnect, Quick Disconnect Adaptor and Coupler)	**$13.32**
WM8405-ND	(76650-0047) **Solderless Terminal Kit**; (Nylon Insulated Butt Splice Solderless Terminals)	**$19.85**
WM8412-ND	(76650-0052) **Solderless Terminal Kit**; (Nylon and PVC Insulated Wire Pin)	**$13.81**
WM8477-ND	(76650-0154) **Solderless Terminal Kit**; (Nylon Insulated Ring 3 and 4 Way Ring Splice and #5-6, #8, #10 and 1/4" Stud Size Ring Terminal with Universal Crimp Tool)	**$61.46**
WM8437-ND	(76650-0051) **Solderless Terminal Kit**; (PVC Insulated Bullet Snap Plug and Receptacle, and Non-Insulated Bullet Snap Plug and Receptacle)	**$13.75**
WM8478-ND	(76650-0155) **Solderless Terminal Kit**; (PVC and Nylon Insulated Bullet Snap Plug and Receptacle, and Insulated Double Bullet Snap Coupler and Non-Insulated Bullet Snap Plug and Receptacle)	**$17.79**
WM1048-ND	(76650-0026) **Perma-Seal™ All Weather Solderless Terminal Kit**; (Assorted Sealed Quick Disconnect, Ring and Butt Splice Terminals. Includes Heat Shrink Tubing and Cable Ties with Universal Crimp Tool)	**$130.09**
WM8435-ND	(76650-0027) **Perma-Fit™ Heat Shrink Tubing Kit**; (Thin Wall and Dual Wall Polyolefin Shrink Tubing)	**$12.37**
WM8436-ND	(76650-0033) **Perma-Fit All Weather Solderless Terminal Kit**; (Sealed Spade and Heat Shrink Tubing with Universal Crimp Tool)	**$33.56**
WM1049-ND	(76650-0053) **Deluxe Solderless Terminal Kit**; (Insulated Ring, Spade, Butt Splice, Closed-End Solderless Terminal .187" and .250" Fully Insulated Female Quick Disconnect with Universal Crimp Tool)	**$103.11**
WM1050-ND	(76650-0049) **Multi-Lock Self-Tapping IDC Wire Splice Connector Kit**; (Self-Tapping Wire Splice, Tap-Splice, Pigtail Splice, Parallel Splice and In-Line Splice Connectors)	**$2.91**
WM8404-ND	(76650-0001) **HCS-125 Power Connector Kit**; (Single Row Plug and Receptacle with Universal Crimp Tool)	**$24.40**
WM8407-ND	(76650-0048) **Assorted Wire Nut Kit**; (Assorted Wire Nuts, 22AWG ~ 14AWG, 22AWG ~ 10AWG and 22AWG ~ 8AWG)	**$4.90**
WM8493-ND	(76650-0172) **EXTreme ZPower™ Connector Kit**; (Mezzanine PCB Connectors)	**$13.00**
WM1051-ND	(76650-0050) **Wire Tap Connector Kit**; (Nylon Tap-and-Run Splice Wire Tap and Nylon Insulated Male Quick Disconnect Solderless Terminals)	**$6.49**

Terminals, Tools, Lugs and Connectors

Insulated

Fig. 1
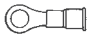

Fig. 2
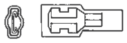

Fig. 3
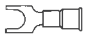

Fig. 4
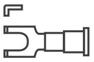

Fig. 5
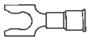

Fig. 6
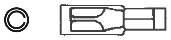

Round

Fig. 7
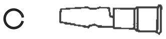

Round

Fig. 8
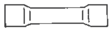

Fig. 9
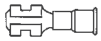

Fig. 10
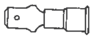

Fig. 11
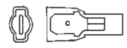

Fig. 12 — Multi-Stud
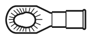

Fig. 13
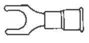

Uninsulated

Fig. 14
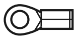

Fig. 15
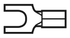

Fig. 16
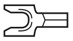

Fig. 17
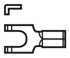

Fig. 18
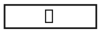

Fig. 19
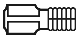

Fig. 20
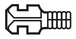

Fig. 21
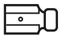

Fig. 22
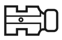

Fig. 23
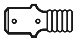

Heat Shrink

Fig. 24
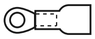

Fig. 25
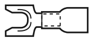

Fig. 26
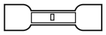

Fig. 27
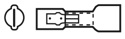

Fig. 28
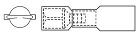

Miscellaneous

Fig. 29 – Female T-Tap Connector
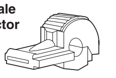

Fig. 30
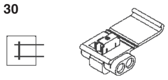

Fig. 31
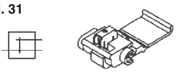

Fig. 32
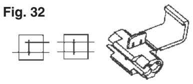

Fig. 33 ***NEW!***
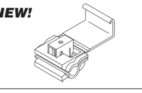

Fig. 34
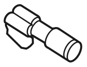

Fig. 35
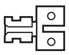

Fig. 36 – Electrical Spring Connector
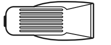

Fig. 37
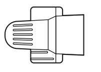

Fig. 38
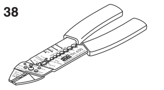

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing				3M Part No.
					10	50	100	500	
Insulated									
1	26 ~ 24 Yellow	#2	.093 (2.36)	920010-30-ND◆	14.88	54.20	95.64	393.20	MN24-2RK
1		#4	.093 (2.36)	920010-31-ND◆	14.23	51.84	91.49	376.11	MN24-4RK
1		#6	.093 (2.36)	920010-32-ND◆	14.23	51.84	91.49	376.11	MN24-6RK
1		#8	.093 (2.36)	920010-33-ND◆	14.23	51.84	91.49	376.11	MN24-8RK
1		#10	.093 (2.36)	920010-34-ND◆	14.23	51.84	91.49	376.11	MN24-10RK
1	22 ~ 18 Red	#4	.145 (3.68)	920010-35-ND	3.83	13.94	24.59	101.10	MVU18-4R/SK
1		#6	.145 (3.68)	920010-01-ND	3.83	13.94	24.59	101.10	MVU18-6R/SK
1		#8	.145 (3.68)	920010-02-ND	3.83	13.94	24.59	101.10	MVU18-8R/LK
1		#10	.145 (3.68)	920010-03-ND	3.83	13.94	24.59	101.10	MVU18-10R/LK
1		1/4	.145 (3.68)	920010-04-ND	4.47	16.29	28.74	118.15	MVU18-14R/SK
1		5/16	.145 (3.68)	920010-36-ND	5.69	20.72	36.57	150.33	MVU18-516R/SK
1		3/8	.145 (3.68)	920010-37-ND	5.69	20.72	36.57	150.33	MVU18-38RK
3		#4	.145 (3.68)	920020-16-ND	3.83	13.94	24.59	101.10	MVU18-4FB/SK
3		#6	.145 (3.68)	920022-01-ND	3.83	13.94	24.59	101.10	MVU18-6FB/SK
3		#8	.145 (3.68)	920022-02-ND	3.83	13.94	24.59	101.10	MVU18-8FBK
3		#10	.145 (3.68)	920020-17-ND	3.83	13.94	24.59	101.10	MVU18-10FBK
4		#6	.145 (3.68)	920022-14-ND	4.47	16.28	28.73	118.12	MVU18-6FFBK
4		#8	.145 (3.68)	920022-15-ND	4.47	16.28	28.73	118.12	MVU18-8FFBK
4		#10	.145 (3.68)	920022-16-ND	4.47	16.28	28.73	118.12	MVU18-10FFBK
5		#4	.145 (3.68)	920024-01-ND	4.13	15.06	26.58	109.27	MVU18-4FLK
5		#6	.145 (3.68)	920024-02-ND	4.13	15.06	26.58	109.27	MVU18-6FLK
5		#8	.145 (3.68)	920024-03-ND	4.13	15.06	26.58	109.27	MVU18-8FLK
5		#10	.145 (3.68)	920024-10-ND	4.13	15.06	26.58	109.27	MVU18-10FLK
6		.156”	.145 (3.68)	920048-03-ND◆	9.51	34.63	61.12	251.26	MNG18-156DFIK
7		.156”	.145 (3.68)	920050-01-ND	4.08	14.87	26.24	107.86	MVU18-156DMK
8		—	.145 (3.68)	920030-01-ND	4.06	14.80	26.12	107.39	MVU18-BCK
9		.187”	.145 (3.68)	920040-01-ND	4.04	14.71	25.96	106.74	MVU18-187DFK
9		.250”	.145 (3.68)	920040-02-ND	4.04	14.71	25.96	106.74	MVU18-250DFK
10		.187”	.145 (3.68)	920042-01-ND	3.96	14.44	25.48	104.77	MVU18-187DMK
10		.250”	.145 (3.68)	920042-02-ND	3.74	13.62	24.03	98.81	MVU18-250DMK
2		.187”	.145 (3.68)	920044-01-ND◆	5.88	21.42	37.80	155.40	MNU18-187DFIK
2		.250”	.145 (3.68)	920044-02-ND◆	5.88	21.42	37.80	155.40	MNU18-250DFIK
2		.250”	.145 (3.68)	920044-23-ND◆	6.07	22.11	39.02	160.40	FDI18-250C
11		.187”	.145 (3.68)	920046-01-ND◆	6.58	23.96	42.29	173.86	MNU18-187DMIK
11		.250”	.145 (3.68)	920046-02-ND◆	6.58	23.96	42.29	173.86	MNU18-250DMIK
12		6/8/10	.145 (3.68)	920010-57-ND	5.16	18.81	33.19	136.44	MV18-610R
1	16 ~ 14 Blue	#4	.170 (4.32)	920010-38-ND	3.83	13.94	24.59	101.10	MVU14-4R/SK
1		#8	.170 (4.32)	920010-39-ND	3.83	13.94	24.59	101.10	MVU14-8RK
1		#6	.170 (4.32)	920010-05-ND	3.83	13.94	24.59	101.10	MVU14-6R/SK
1		#8	.170 (4.32)	920010-06-ND	3.83	13.94	24.59	101.10	MVU14-8R/SK
1		#10	.170 (4.32)	920010-07-ND	3.83	13.94	24.59	101.10	MVU14-10RK
1		1/4	.170 (4.32)	920010-08-ND	4.47	16.29	28.74	118.15	MVU14-14R/SK
1		5/16	.170 (4.32)	920010-40-ND	5.69	20.72	36.57	150.33	MVU14-516R/SK
1		3/8	.170 (4.32)	920010-41-ND	5.69	20.72	36.57	150.33	MVU14-38RK
13		#6	.170 (4.32)	920020-01-ND	3.83	13.94	24.59	101.10	MVU14-6FK
13		#8	.170 (4.32)	920020-02-ND	3.83	13.94	24.59	101.10	MVU14-8FK
3		#4	.170 (4.32)	920020-18-ND	3.83	13.94	24.59	101.10	MVU14-4FB/SK
3		#6	.170 (4.32)	920022-03-ND	3.83	13.94	24.59	101.10	MVU14-6FB/SK
3		#8	.170 (4.32)	920022-04-ND	3.83	13.94	24.59	101.10	MVU14-8FBK
3		#10	.170 (4.32)	920020-19-ND	3.83	13.94	24.59	101.10	MVU14-10FBK
4		#6	.170 (4.32)	920022-17-ND	4.47	16.28	28.73	118.12	MVU14-6FFBK
4		#8	.170 (4.32)	920022-18-ND	4.47	16.28	28.73	118.12	MVU14-8FFBK
4		#10	.170 (4.32)	920022-19-ND	4.47	16.28	28.73	118.12	MVU14-10FFBK
5		#6	.170 (4.32)	920024-04-ND	4.13	15.06	26.58	109.27	MVU14-6FLK
5		#8	.170 (4.32)	920024-05-ND	4.13	15.06	26.58	109.27	MVU14-8FLK
5		#10	.170 (4.32)	920024-06-ND	4.13	15.06	26.58	109.27	MVU14-10FLK
7		.156”	.170 (4.32)	920050-02-ND	4.08	14.87	26.24	107.86	MVU14-156DMK
8		—	.170 (4.32)	920030-02-ND	4.06	14.80	26.12	107.39	MVU14-BCK
9		.187”	.145 (3.68)	920040-03-ND	4.04	14.71	25.96	106.74	MVU14-187DFK
9		.250”	.145 (3.68)	920040-04-ND	4.04	14.71	25.96	106.74	MVU14-250DFK
10		.187”	.145 (3.68)	920042-03-ND	3.96	14.44	25.48	104.77	MVU14-187DMK
10		.250”	.170 (4.32)	920042-04-ND	3.96	14.44	25.48	104.77	MVU14-250DMK
2		.187”	.145 (3.68)	920044-03-ND◆	5.88	21.42	37.80	155.40	MNU14-187DFIK
2		.250”	.145 (3.68)	920044-04-ND◆	5.88	21.42	37.80	155.40	MNU14-250DFIK
2		.250”	.145 (3.68)	920044-22-ND◆	6.07	22.11	39.02	160.40	FDI14-250C
11		.187”	.145 (3.68)	920046-03-ND◆	6.58	23.96	42.29	173.86	MNU14-187DMIK
11		.250”	.170 (4.32)	920046-04-ND◆	6.58	23.96	42.29	173.86	MNU14-250DMIK
12		6/8/10	.170 (4.32)	920010-58-ND	5.16	18.81	33.19	136.44	MV14-610R
1	12 ~ 10 Yellow	#6	.250 (6.35)	920010-43-ND	4.66	16.98	29.96	123.15	MVU10-6RK
1		#8	.250 (6.35)	920010-09-ND	4.66	16.98	29.96	123.15	MVU10-8RK
1		#10	.250 (6.35)	920010-10-ND	4.66	16.98	29.96	123.15	MVU10-10RK
1		1/4	.250 (6.35)	920010-11-ND	6.23	22.69	40.04	164.59	MVU10-14R/SK
1		5/16	.250 (6.35)	920010-44-ND	6.23	22.69	40.04	164.59	MVU10-516R/SK
1		3/8	.250 (6.35)	920010-12-ND	6.23	22.69	40.04	164.59	MVU10-38R/SK
2		#6	.250 (6.35)	920020-03-ND	4.66	16.98	29.96	123.15	MVU10-6FK
2		#8	.250 (6.35)	920020-04-ND	4.66	16.98	29.96	123.15	MVU10-8FK
2		#10	.250 (6.35)	920020-05-ND	4.66	16.98	29.96	123.15	MVU10-10FK
4		#6	.250 (6.35)	920022-20-ND	5.44	19.82	34.98	143.81	MVU10-6FFBK
4		#8	.250 (6.35)	920022-21-ND	5.44	19.82	34.98	143.81	MVU10-8FFBK
4		#10	.250 (6.35)	920022-22-ND	5.44	19.82	34.98	143.81	MVU10-10FFBK
5		#6	.250 (6.35)	920024-07-ND	5.94	21.64	38.20	157.03	MVU10-6FLK
5		1/4	.250 (6.35)	920024-13-ND	6.86	25.00	44.12	181.38	MVU10-14FLK
8		—	.250 (6.35)	920030-03-ND	5.02	18.28	32.26	132.63	MVU10BCK
9		.250”	.250 (6.35)	920040-06-ND	7.51	27.37	48.30	198.58	MVI10-250DFK
10		.250”	.250 (6.35)	920042-05-ND	4.93	17.95	31.68	130.23	MVU10-250DMK
2		.250”	.250 (6.35)	920044-21-ND◆	8.24	30.02	52.98	217.80	MNI10-250DFIK
11		.250”	.250 (6.35)	920046-05-ND◆	8.93	32.53	57.41	236.02	MNU10-250DMIK
12		6/8/10	.250 (6.35)	920010-59-ND	6.83	24.87	43.89	180.44	MV10-610R
Uninsulated — RoHS Compliant									
14	22 ~ 18	#4	—	920010-13-ND	1.98	7.20	12.71	52.23	MU18-4R/SK
14	22 ~ 18	#6	—	920010-14-ND	1.98	7.20	12.71	52.23	MU18-6R/SK
14	22 ~ 18	#8	—	920010-15-ND	1.98	7.20	12.71	52.23	MU18-8R/LK
14	22 ~ 18	#10	—	920010-16-ND	1.87	6.81	12.02	49.42	MU18-10R/LK
14	22 ~ 18	1/4	—	920010-17-ND	3.11	11.33	20.00	82.20	MU18-14R/SK
15	22 ~ 18	#4	—	920020-06-ND	1.98	7.20	12.71	52.23	MU18-4FB/SK
15	22 ~ 18	#6	—	920020-07-ND	1.98	7.20	12.71	52.23	MU18-6FB/SK
15	22 ~ 18	#8	—	920020-08-ND	2.14	7.81	13.78	56.66	MU18-8FBK
15	22 ~ 18	#10	—	920020-09-ND	1.98	7.20	12.71	52.23	MU18-10FBK
16	22 ~ 18	#6	—	920024-15-ND	2.06	7.50	13.24	54.45	MU18-6FLK
16	22 ~ 18	#8	—	920024-16-ND	2.06	7.50	13.24	54.45	MU18-8FLK
16	22 ~ 18	#10	—	920024-17-ND	2.06	7.50	13.24	54.45	MU18-10FLK
17	22 ~ 18	#6	—	920022-05-ND	2.22	8.10	14.29	58.74	MU18-6FFBK
18	22 ~ 18	—	—	920030-07-ND	3.18	11.58	20.44	84.03	M18BCK
14	16 ~ 14	#4	—	920010-19-ND	1.98	7.20	12.71	52.23	MU14-4R/SK
14	16 ~ 14	#6	—	920010-20-ND	1.98	7.20	12.71	52.23	MU14-6R/SK
14	16 ~ 14	#8	—	920010-21-ND	1.98	7.20	12.71	52.23	MU14-8R/LK
14	16 ~ 14	#10	—	920010-22-ND	1.98	7.20	12.71	52.23	MU14-10RK
14	16 ~ 14	1/4	—	920010-23-ND	3.11	11.33	20.00	82.20	MU14-14R/SK
15	16 ~ 14	#8	—	920020-11-ND	1.98	7.20	12.71	52.23	MU14-8FBK
15	16 ~ 14	#10	—	920020-12-ND	1.98	7.20	12.71	52.23	MU14-10FBK
16	16 ~ 14	#6	—	920024-19-ND	2.06	7.50	13.24	54.45	MU14-6FLK
16	16 ~ 14	#10	—	920024-21-ND	2.06	7.50	13.24	54.45	MU14-10FLK
16	16 ~ 14	1/4	—	920024-22-ND	3.37	12.29	21.68	89.13	MU14-14FLK
17	16 ~ 14	#8	—	920022-09-ND	2.10	7.66	13.52	55.59	MU14-8FFBK
17	16 ~ 14	#10	—	920022-10-ND	2.10	7.66	13.52	55.59	MU14-10FFBK
18	16 ~ 14	—	—	920030-08-ND	3.18	11.58	20.44	84.03	M14BCK
14	12 ~ 10	#4	—	920010-24-ND	3.01	10.96	19.33	79.49	MU10-4R/SK
14	12 ~ 10	#6	—	920010-25-ND	3.01	10.96	19.33	79.49	MU10-6RK
14	12 ~ 10	#8	—	920010-26-ND	3.01	10.96	19.33	79.49	MU10-8RK
14	12 ~ 10	#10	—	920010-27-ND	3.01	10.96	19.33	79.49	MU10-10RK
14	12 ~ 10	1/4	—	920010-28-ND	3.59	13.08	23.08	94.89	MU10-14R/SK
15	12 ~ 10	#6	—	920020-13-ND	3.01	10.96	19.33	79.49	MU10-6FBK
17	12 ~ 10	#8	—	920022-12-ND	2.99	10.89	19.22	79.00	MU10-8FFBK
17	12 ~ 10	#10	—	920022-13-ND	2.79	10.18	17.96	73.83	MU10-10FFBK
18	12 ~ 10	—	—	920030-09-ND	4.77	17.38	30.67	126.11	M10BCK
20	22 ~ 18	.187”	—	920044-07-ND	2.15	7.81	13.79	56.69	MU18-187DFK
19	22 ~ 18	.250”	—	920044-08-ND	2.15	7.81	13.79	56.69	MU18-250DFK
19	16 ~ 14	.110”	—	920044-09-ND	2.15	7.81	13.79	56.69	MU14-110DFK
20	16 ~ 14	.187”	—	920044-10-ND	2.15	7.81	13.79	56.69	MU14-187DFK
19	16 ~ 14	.250”	—	920044-11-ND	2.15	7.81	13.79	56.69	MU14-250DFK
21	22 ~ 18	.187”	—	920044-12-ND	2.71	9.87	17.42	71.60	MU18-187DF/FLAGK
22	22 ~ 18	.250”	—	920044-13-ND	2.71	9.87	17.42	71.60	MU18-250DF/FLAGK
22	16 ~ 14	.250”	—	920044-15-ND	2.71	9.87	17.42	71.60	MU14-250DF/FLAGK
19	26 ~ 22	.110”	—	920044-24-ND	2.15	7.81	13.79	56.69	MU20-110/32DFK-A
23	22 ~ 18	.187”	—	920042-06-ND	2.07	7.55	13.32	54.76	MU18-187DMK
23	22 ~ 18	.250”	—	920042-07-ND	2.07	7.55	13.32	54.76	MU18-250DMK
23	16 ~ 14	.250”	—	920042-09-ND	2.07	7.55	13.32	54.76	MU14-250DMK
Multi-Stack Adapters — RoHS Compliant									
34	22 ~ 18	.250”	—	920084-03-ND	5.81	21.17	37.35	153.56	MVU18-250DMFK-A
34	16 ~ 14	.250”	—	920084-04-ND	5.23	19.05	33.62	138.20	MVU14-250DMFK-A
35	—	.250”	—	920082-02-ND	3.59	13.07	23.07	94.84	MA250DMMFK
Heat Shrink Insulated									
26	22 ~ 18 Red	—	—	920030-10-ND◆	9.47	34.48	60.85	250.15	MH18BCK
24	16 ~ 14 Blue	#8	—	920010-49-ND◆	9.12	33.22	58.61	240.97	MH14-8R/LK
24	16 ~ 14 Blue	3/8	—	920010-53-ND	12.07	49.70	78.09	308.10	MH14-38RK
26		—	—	920030-11-ND◆	9.47	34.48	60.85	250.15	MH14BCK

◆ ***RoHS Compliant***

(Continued)

3M Terminals, Tools, Lugs and Connectors *(Cont.)*

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
25	12 ~ 10 Yellow	#8	—	920024-34-ND◆	10.94	39.86	70.34	289.17	MH10-8FLK
25		#10	—	920024-35-ND◆	10.94	39.86	70.34	289.17	MH10-10FLK
26		—	—	920030-12-ND◆	12.22	44.51	78.55	322.95	MH10BCK
27		—	—	920042-13-ND◆	15.98	58.21	102.73	422.34	MNHU10-250DMIK
27	16 ~ 14	—	—	920042-12-ND◆	12.09	44.05	77.74	319.61	MNHU14-250DMIK
28	22 ~ 18	—	—	920044-18-ND◆	12.09	44.05	77.74	319.61	MNHU18-250DFIK
29	22 ~ 18	—	—	920074-01-ND◆	4.48	16.32	28.80	118.41	951K
29	16 ~ 14	—	—	920074-02-ND◆	4.48	16.32	28.80	118.41	952K
29	12	—	—	920074-03-ND◆	4.82	17.57	31.01	127.48	953K
30	22 ~ 16 Red	—	—	920074-06-ND◆	5.36	19.53	34.47	141.71	557 (BOXED)
31		—	—	920074-07-ND◆	5.60	20.39	35.98	147.91	558 (BOXED)
32	18 ~ 14 Blue	—	—	920074-08-ND◆	3.40	12.39	21.87	89.91	560 (BOXED)

3M™ Insulated Terminal Kit — 650 assorted terminals (14 sizes), 200 cable ties (100 each, 2 sizes), one wire marker dispenser, one crimping tool, one reusable metal box, one reordering information card

923000-I-ND **$239.87**

Connectors and Crimp Tools

Fig.	AWG	Description	Color	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Scotchlok™ Connectors									
33	10 ~ 18	Self-Stripping Electrical	Brown	920074-10-ND◆✔	6.62	24.13	42.59	175.07	567-BIN
36	14 ~ 8	End Electrical	Gray	920090-01-ND	7.93	28.90	51.01	209.70	G-BULK
36	22 ~ 10	Nylon Spring Connector	Yellow	920074-04-ND◆	1.75	6.39	11.28	46.37	312-BULK
36	20 ~ 8		Red	920074-05-ND◆	2.43	8.86	15.63	64.26	512-BULK
37	14 ~ 6	Spring Connector	Blue/Green	920090-04-ND	10.37	37.79	66.69	274.17	B/G+BOX
37	22 ~ 12		Orange/Blue	920090-05-ND	2.43	8.86	15.64	64.29	O/B+BOX
37	22 ~ 8		Red/Yellow	920090-06-ND	3.70	13.46	23.76	97.68	R/Y+BOX
Crimp Tools									
—	22 ~ 10	Ratcheting	—	TR-482-ND	279.37/1				TR-482
38	26 ~ 6	Scissor Style	—	TH-450-ND	66.37/1				TH-450
—	22 ~ 10	Ratcheting	—	TR-490-ND	232.80/1				TR-490
38	22 ~ 10	Scissor Style	Red	920099-R-ND✔	59.85/1				TH-440

◆ ***RoHS Compliant*** ✔ ***NEW!***

3M™ Scotchlok™ Terminal Assortment Kit SDTK-2 consists of 12 of the most widely used terminal types (134 pieces total), a TH-440 crimping tool and a 12 compartment plastic organizer with a place to store the TH-440 crimping tool.

924000-S-ND **$72.78**

Terminals

Fig. 1

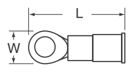

Fig. 2

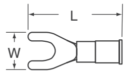

Fig. 3

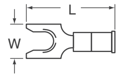

Fig. 4

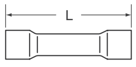

Fig. 5

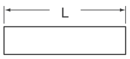

Fig. 6

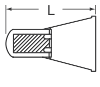

Fig. 7

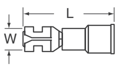

Fig. 8

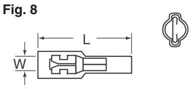

Fig. 9

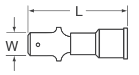

Fig. 10

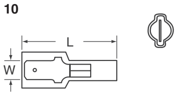

Fig. 11

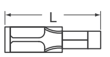

Fig. 12

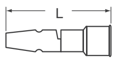

Fig. 13

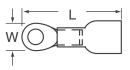

Fig.	AWG	Stud Size	Dim. – Inch		Digi-Key Part No.	Pricing				3M Part No.
			L	W		10	50	100	500	
Vinyl Insulated Butted Seam Ring Tongue Terminals										
1	22 ~ 18 Red	#6	0.80	0.25	94725-01-ND	1.81	6.59	11.63	47.82	94725
	22 ~ 18 Red	#8	0.90	0.33	94727-01-ND	1.81	6.59	11.63	47.82	94727
	22 ~ 18 Red	#10	0.90	0.33	94717-01-ND	1.81	6.59	11.63	47.82	94717
	22 ~ 18 Red	1/4	1.08	0.47	94719-01-ND	2.16	7.85	13.86	56.98	94719
	16 ~ 14 Blue	#6	0.90	0.33	94736-01-ND◆	1.81	6.59	11.63	47.82	94736
	16 ~ 14 Blue	#8	0.90	0.33	94739-01-ND	1.81	6.59	11.63	47.82	94739
	16 ~ 14 Blue	#10	0.90	0.33	94729-01-ND	1.81	6.59	11.63	47.82	94729
	16 ~ 14 Blue	1/4	1.08	0.47	94731-01-ND	2.16	7.85	13.86	56.98	94731
	12 ~ 10 Yellow	#6	0.98	0.28	94751-01-ND	2.23	8.11	14.31	58.83	94751
	12 ~ 10 Yellow	#8	1.03	0.38	94753-01-ND	2.40	8.75	15.44	63.46	94753
	12 ~ 10 Yellow	#10	1.03	0.38	94741-01-ND	2.23	8.11	14.31	58.83	94741
	12 ~ 10 Yellow	1/4	1.26	0.53	94743-01-ND	2.57	9.36	16.52	67.90	94743
	12 ~ 10 Yellow	5/16	1.26	0.53	94749-01-ND	2.70	9.82	17.33	71.23	94749
	12 ~ 10 Yellow	3/8	1.29	0.59	94745-01-ND	2.70	9.82	17.33	71.23	94745
Nylon Insulated with Insulation Grip Ring Tongue Terminals — RoHS Compliant										
1	22 ~ 18 Red	#6	0.79	0.25	94724-01-ND	2.76	10.05	17.73	72.89	94724
	22 ~ 18 Red	#8	0.89	0.33	94726-01-ND	2.76	10.05	17.73	72.89	94726
	16 ~ 14 Blue	#10	0.89	0.33	94728-01-ND	2.76	10.05	17.73	72.89	94728
	16 ~ 14 Blue	5/16	1.09	0.47	94734-01-ND	3.42	12.47	22.01	90.47	94734
	16 ~ 14 Blue	3/8	1.14	0.56	94732-01-ND	3.84	13.99	24.68	101.47	94732
Nylon Insulated Brazed Seam Ring Tongue Terminals										
1	8 Red	1/4	1.26	0.47	94754-01-ND◆	8.89	32.39	57.15	234.95	94754
	4 Yellow	1/2	1.74	0.68	94764-01-ND	17.58	78.63	129.50	508.75	94764
Vinyl Insulated Butted Seam Fork Terminals										
2	22 ~ 18 Red	#6	0.90	0.34	94769-01-ND	1.75	6.38	11.25	46.25	94769
	22 ~ 18 Red	#8	0.90	0.34	94771-01-ND	1.75	6.38	11.25	46.25	94771
	16 ~ 14 Blue	#6	0.90	0.34	94775-01-ND	1.75	6.38	11.25	46.25	94775
	16 ~ 14 Blue	#8	0.90	0.34	94777-01-ND	1.75	6.38	11.25	46.25	94777
	16 ~ 14 Blue	#10	0.90	0.34	94773-01-ND	1.75	6.38	11.25	46.25	94773
Vinyl Insulated Butted Seam Locking Fork Terminals										
3	22 ~ 18 Red	#6	0.88	0.25	94865-01-ND	1.89	6.89	12.15	49.95	94865
	22 ~ 18 Red	#8	0.88	0.30	94867-01-ND	1.89	6.89	12.15	49.95	94867
	16 ~ 14 Blue	#6	0.88	0.25	94873-01-ND	1.89	6.89	12.15	49.95	94873
	16 ~ 14 Blue	#8	0.88	0.30	94875-01-ND	1.89	6.89	12.15	49.95	94875
Nylon Insulated with Insulation Grip Locking Fork Terminals — RoHS Compliant										
3	22 ~ 18 Red	#6	0.87	0.25	94864-01-ND	2.89	10.54	18.61	76.50	94864
	22 ~ 18 Red	#8	0.87	0.30	94866-01-ND	2.89	10.54	18.61	76.50	94866
	16 ~ 14 Blue	#8	0.89	0.30	94874-01-ND	2.89	10.54	18.61	76.50	94874
Vinyl Insulated Butted Seam Butt Connectors										
4	22 ~ 18 Red	—	1.02	—	94785-01-ND	1.89	6.89	12.15	49.95	94785
	16 ~ 14 Blue	—	1.02	—	94788-01-ND	1.89	6.89	12.15	49.95	94788
	12 ~ 10 Yellow	—	1.05	—	94791-01-ND	2.35	8.57	15.12	62.16	94791
Nylon Insulated with Insulation Grip Butt Connectors — RoHS Compliant										
4	22 ~ 18 Red	—	1.01	—	94784-01-ND	5.45	19.86	35.06	144.12	94784
Nylon Insulated Seamless Butt Connectors — RoHS Compliant										
5	22 ~ 18 Red	—	1.02	—	94786-01-ND	2.69	9.79	17.28	71.04	94786
5	16 ~ 14 Blue	—	1.02	—	94789-01-ND	2.69	9.79	17.28	71.04	94789
	12 ~ 10 Yellow	—	1.02	—	94792-01-ND	3.43	12.50	22.05	90.65	94792
Nylon Insulated Closed End Connectors — RoHS Compliant										
6	18 ~ 10	—	1.00	—	94884-01-ND	1.94	7.07	12.47	51.26	718-N-A
	22 ~ 16	—	0.83	—	722-N-A-ND	1.56	5.70	10.05	41.33	722-N-A
Vinyl Insulated Butted Seam Female Disconnects										
7	22 ~ 18 Red	—	0.78	0.187	94800-01-ND	1.89	6.89	12.15	49.95	94800
	22 ~ 18 Red	—	0.87	0.250	94804-01-ND	1.89	6.89	12.15	49.95	94804
	16 ~ 14 Blue	—	0.87	0.250	94821-01-ND	1.89	6.89	12.15	49.95	94821
Nylon Insulated with Insulation Grip Female Disconnects — RoHS Compliant										
7	22 ~ 18 Red	—	0.77	0.187	94797-01-ND	2.84	10.35	18.27	75.11	94797
	22 ~ 18 Red	—	0.86	0.250	94801-01-ND	2.84	10.35	18.27	75.11	94801
	16 ~ 14 Blue	—	0.86	0.250	94818-01-ND	2.84	10.35	18.27	75.11	94818
Fully Nylon Insulated Butted Seam Female Disconnects — RoHS Compliant										
8	22 ~ 18 Red	—	0.81	0.187	94799-01-ND	3.09	11.26	19.87	81.68	94799
	22 ~ 18 Red	—	0.87	0.250	94803-01-ND	2.84	10.35	18.27	75.11	94803
	16 ~ 14 Blue	—	0.81	0.187	94816-01-ND	3.09	11.26	19.87	81.68	94816
	16 ~ 14 Blue	—	0.87	0.250	94820-01-ND	2.84	10.35	18.27	75.11	94820
	12 ~ 10 Yellow	—	0.99	0.250	94832-01-ND	3.50	12.75	22.50	92.50	94832
Vinyl Insulated Butted Seam Male Disconnects										
9	22 ~ 18 Red	—	0.85	0.187	94808-01-ND	1.89	6.89	12.15	49.95	94808
	22 ~ 18 Red	—	0.93	0.250	94812-01-ND	1.89	6.89	12.15	49.95	94812
	16 ~ 14 Blue	—	0.93	0.250	94829-01-ND	1.89	6.89	12.15	49.95	94829
	12 ~ 10 Yellow	—	1.05	0.250	94837-01-ND	2.07	7.55	13.32	54.76	94837
Nylon Insulated with Insulation Grip Male Disconnects — RoHS Compliant										
9	22 ~ 18 Red	—	0.92	0.250	94809-01-ND	2.84	10.35	18.27	75.11	94809
	16 ~ 14 Blue	—	0.84	0.187	94822-01-ND	2.84	10.35	18.27	75.11	94822
Fully Nylon Insulated Butted Seam Male Disconnects — RoHS Compliant										
10	22 ~ 18 Red	—	0.87	0.187	94807-01-ND	3.09	11.26	19.87	81.68	94807
	22 ~ 18 Red	—	0.95	0.250	94811-01-ND	2.84	10.35	18.27	75.11	94811
	16 ~ 14 Blue	—	0.95	0.250	94828-01-ND	2.84	10.35	18.27	75.11	94828
	12 ~ 10 Yellow	—	1.05	0.250	94836-01-ND	3.50	12.75	22.50	92.50	94836
Fully Nylon Insulated with Insulation Grip Male Disconnects — RoHS Compliant										
10	22 ~ 18 Red	—	0.95	0.250	94810-01-ND	3.57	13.01	22.95	94.35	94810
	16 ~ 14 Blue	—	0.95	0.250	94827-01-ND	3.57	13.01	22.95	94.35	94827
Nylon Insulated Butted Seam Bullet Style Female Disconnects — RoHS Compliant										
11	16 ~ 14 Blue	.180”	1.02	—	94843-01-ND	2.96	10.77	19.01	78.16	94843
Nylon Insulated with Insulation Grip Bullet Style Female Disconnects — RoHS Compliant										
11	22 ~ 18 Red	.156”	1.02	—	94838-01-ND	3.02	11.00	19.42	79.83	94838
Nylon Insulated with Insulation Grip Bullet Style Male Disconnects — RoHS Compliant										
12	22 ~ 18 Red	.156”	0.85	—	94840-01-ND	2.71	9.86	17.39	71.50	94840
Heat Shrink Brazed Seam Ring Tongue Terminals										
13	22 ~ 18 Red	#8	1.0	0.31	94860-01-ND	13.60	60.86	100.24	393.80	94860
	22 ~ 18 Red	#10	1.0	0.31	94858-01-ND	13.60	60.86	100.24	393.80	94858
	16 ~ 14 Blue	#6	1.0	0.31	94855-01-ND	13.60	60.86	100.24	393.80	94855
	16 ~ 14 Blue	1/4	1.1	0.47	94852-01-ND	14.78	66.13	108.92	427.90	94852
	16 ~ 14 Blue	5/16	1.1	0.47	94854-01-ND	11.32	50.66	83.44	327.80	94854
	16 ~ 14 Blue	3/8	1.1	0.56	94853-01-ND	14.78	66.13	108.92	427.90	94853
	12 ~ 10 Yellow	#10	1.1	0.38	94846-01-ND	16.53	73.95	121.80	478.50	94846
	12 ~ 10 Yellow	1/4	1.2	0.59	94847-01-ND◆	12.64	46.05	81.27	334.11	94847

◆ ***RoHS Compliant***

3M Scotchlok™ Discrete Connectors and Tools

Features: 3M™ Scotchlok™ connectors have been providing ease of use and proven high quality reliability for over 50 years. With a "U" element and IDC design, they continue to be effective for transmitting broadband services with performance up to 100MHz. They are available for butt, in-line or tap splicing of solid copper or aluminum conductors and have a wide selection of tools to meet all discrete splicing needs.

Fig.	Maximum Insulation (mm)	Wire AWG	Use Tool # (below)	Gel Filled	Wire Count	Digi-Key Part No.	Pricing 1	10	100	3M Part No.
1	1.67 Butt 1.12 Tap	26 ~ 19 Butt 26 ~ 22 Tap	1, 2, 3, 4, 5	Yes	2-Wire	UG20082-ND†	.44	3.31	24.82	UG(BX)
2	1.52	26 ~ 22	1, 2, 3, 4, 5	Yes	2-Wire	UCC1000-ND†‡★	.34	2.58	19.35	UCC(BULK)
	1.52	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UP2000-ND★▲	.30	2.26	16.94	UP2-BULK
	1.52	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UPC1000-ND‡★▲	.77	5.81	43.54	UPC(BULK)
	2.08	26 ~ 19	1, 2, 3, 5	Yes	2 or 3-Wire	UR2000-ND†◊	.30	2.26	16.94	UR2(BULK)
	2.08	26 ~ 19	1, 2, 3, 4, 5	Yes	2-Wire	UY2000-ND†◊	.26	1.97	14.78	UY2(BX)
	2.08	26 ~ 19	6	No	2-Wire	UY2100-ND◊∆§	2.65	19.85	176.40	UY2-D(CART)
	1.52	26 ~ 22	1, 2	Yes	2-Wire	UY14911-ND†★	.28	2.11	15.84	UY(BX)
3	2.08	20 ~ 17AL 24 ~ 19CU	1, 2, 3, 5	Yes	2 or 3-Wire	UAL27827-ND†	.90	6.77	50.81	UAL(BX)
	2.08	20 ~ 17AL 24 ~ 19CU	6	Yes	2 or 3-Wire	UAL27828-ND†§	7.56	56.70	504.00	UAL(CART)
	1.52	26 ~ 19	1, 2	Yes	2 or 3-Wire	UR20074-ND†	.33	2.51	18.79	UR(BX)
	1.52	26 ~ 19	1, 2, 3, 5	No	2 or 3-Wire	UP3000-ND▲	.39	2.90	21.78	UP3(BOX)
4	3.18	19 ~ 16	5	Yes	4-Wire	U1B1000-ND†	4.48	33.60	252.00	U1B(BX)
	3.18	24 ~ 19	5	Yes	4-Wire	U1R20017-ND†	4.48	33.60	252.00	U1R(BX)
5	1.27	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UPB1000-ND▲	.43	3.23	24.19	UPB(BULK)
6	2.08	26 ~ 19	1, 2, 3, 4, 5	Yes	2-Wire	UB2A1000-ND†◊	.34	2.58	19.35	UB2A(BX)
	2.08	26 ~ 19	1, 2, 3, 4, 5	No	2-Wire	UB2A1100-ND▲◊	.39	2.90	21.78	UB2A-D-BOX
7	2.08	26 ~ 19	1, 2	Yes	2-Wire	U2A1000-ND†◊	.53	3.95	29.63	211(BX)
8	4.4	19 ~ 16	5	Yes	4-Wire	UDW2000-ND†	4.90	36.77	275.81	UDW2

† Moisture Resistant ‡ Clearing Caps, No electrical connection ★ Single Element ▲ Dry/Flame Retardant ◊ Solvent Resistant ∆ Dry § UY2100-ND - 12 per carton, UAL27828-ND - 10 per carton

Fig. 1

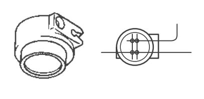

Fig. 2

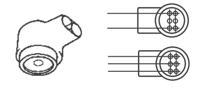

Fig. 3

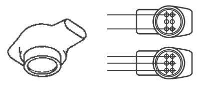

Fig. 4

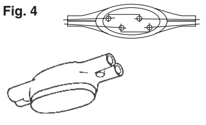

Fig. 5

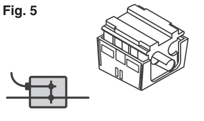

Fig. 6

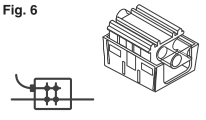

Fig. 7

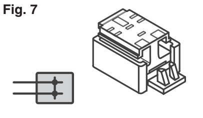

Fig. 8

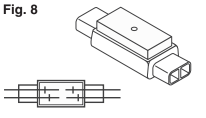

Tools

Tool #	Mechanical Advantage	Digi-Key Part No.	Price Each	3M Part No.
1	10:1	E-9J-ND	46.19	E-9J
2	10:1	E-9R-ND§	105.83	E-9R
3	4:1	E-9E-ND	38.42	E-9E
4	3:1	E-9Y-ND§	21.98	E-9Y
5	10:1	E-9BM-ND	66.86	E-9BM
6	7:1	E-9C-ND	176.85	E-9C

§ Integrated Wire Cutter

Tool #1

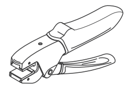

Tool #2

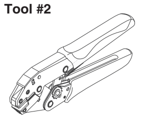

Tool #3

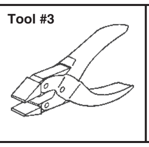

Tool #4

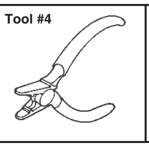

Tool #5

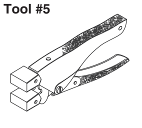

Tool #6

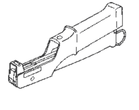

Splice Enclosures

Description	Maximum Cable Diameter — Inch (mm)	Digi-Key Part No.	Price Each 1	10	3M Part No.
Enclosures					
5-Pair Kit with Encapsulant	0.35 (8.89)	3M9045-ND	12.44	9.33	3832
6-Pair Kit with Pull N' Shrink Tubing	0.45 (11.43)	3M9046-ND	49.82	37.37	3838-PST/GEL
5-Pair Kit with Encapsulant Filled Body	0.425 (10.795)	3M9047-ND	15.26	11.45	SLIC-5-BSW
4-Pair Kit with Encapsulant	0.625 (15.875)	3M9048-ND	24.96	18.72	8981-8882/HIGHGEL
18-Pair Kit with Encapsulant	1.0 (25.4)	3M9049-ND	51.68	38.76	8982-8882/HIGHGEL

Description	Maximum Cable Diameter — Inch (mm)	Digi-Key Part No.	Price Each 1	10	3M Part No.
50-Pair Kit without Encapsulant	0.7, 1.2 (17.78, 30.48)	3M9050-ND	116.14	87.11	BB2X12-8882/HIGHGEL
100-Pair Kit without Encapsulant	0.7, 1.2 (17.78, 30.48)	3M9051-ND	167.86	125.90	BB2X24-8882/HIGHGEL
200-Pair Kit without Encapsulant	1.0, 1.6 (25.4, 40.64)	3M9052-ND	287.00	215.25	BB3X24-8882/HIGHGEL
Accessories					
Re-enterable Encapsulant 521 mL	—	3M9053-ND	14.92	11.19	8882-500C
EZ Wrap Tape 4" X 100' 3.0 MIL	—	3M9054-ND	6.58	4.94	2183
Grounding Braid 1/2" X 25' without Eyelets	—	3M9055-ND	98.52	73.89	25T-GB
Shield Connector with Shoe	—	3M9056-ND	1.50	1.13	4462-SNA

Note: Please see Digi-Key's website for photos and specifications.

PANDUIT® Copper Terminal Lug

Specifications:
- **Material:** High Conductivity Seamless Copper Tube
- **Plating:** Electro-Tin
- UL **Temperature Rating:** 90°C

Fig. 1

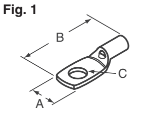

Fig. 2

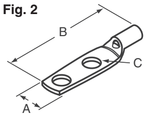

Fig. 3 ***NEW!***

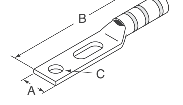

Fig. 4 ***NEW!***

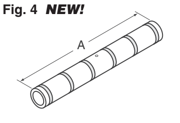

Fig.	Wire Size (AWG)	Stud Size	Type	Dimension — Inch A	B	C	Digi-Key Part No.	Pricing 1	10	25	50	Panduit Part No.
Single Hole Terminal Lug												
1	14 ~ 10	1/4"	Straight, Standard Barrel	.42	1.16	.27ø	298-9974-ND	.71	6.94	—	28.44	LCA10-14-L
	8	3/8"	Standard Barrel	.60	1.56	.41ø	298-9975-ND	2.34	22.46	55.22	93.60	LCA8-38-L
	8	3/8"	Flex, Flared Barrel	.60	1.76	.41ø	298-9976-ND	2.50	23.99	58.97	99.95	LCAF8-38-L
	6	1/4"	Standard Barrel	.48	1.61	.27ø	298-1407-ND ***NEW!***	2.59	24.83	61.05	103.47	LCA6-14-L
	6	#10	Standard Barrel	.45	1.52	.20ø	298-1406-ND ***NEW!***	2.59	24.83	61.05	103.47	LCA6-10-L
	4 ~ 2	1/4"	Standard Barrel	.55	1.63	.27ø	298-1404-ND ***NEW!***	3.39	32.57	80.06	135.70	LCA4-14-L
	4 ~ 2	3/8"	Standard Barrel	.62	1.85	.41ø	298-1405-ND ***NEW!***	3.39	32.57	80.06	135.70	LCA4-38-L
	2	1/4"	Standard Barrel	.60	1.77	.27ø	298-1387-ND ***NEW!***	6.43	61.74	128.63	—	LCA2-14-Q
	2	3/8"	Standard Barrel	.66	1.97	.41ø	298-1403-ND ***NEW!***	6.43	61.74	151.78	257.26	LCA2-38-Q
	1	1/4"	Standard Barrel	.70	1.79	.27ø	298-1385-ND ***NEW!***	5.90	56.61	117.93	—	LCA1-14-E
	1	3/8"	Standard Barrel	.70	1.99	.41ø	298-1386-ND ***NEW!***	6.79	65.14	135.71	—	LCA1-38-E
Two Hole Terminal Lug												
2	14 ~ 10	1/4"	Straight, Standard Barrel	.42	1.78	.27ø	298-9977-ND	9.69	93.07	228.79	387.78	LCD10-14A-L
	8	1/4"	Standard Barrel	.48	1.97	.27ø	298-9978-ND	5.18	49.71	122.19	207.11	LCD8-14A-L
	8	1/4"	Straight Flex, Standard Barrel	.48	1.83	.27ø	298-9979-ND	5.18	49.71	122.19	207.10	LCDX8-14A-L
NEW! Two Hole Lug NEW!												
3	14 ~ 10	1/4"	Long Barrel with Window	.42	1.93	.27ø	298-1389-ND	10.69	102.64	252.32	427.66	LCC10-14JAW-L
	6	1/4"	Long Barrel with Window	.48	2.49	.27ø	298-1394-ND	12.24	117.54	288.96	489.76	LCC6-14JAW-L
	6	3/8"	Long Barrel with Window	.62	3.08	.41ø	298-1395-ND	8.92	85.68	210.63	357.00	LCC6-38DW-L
	2	1/4"	Long Barrel with Window	.60	2.67	.27ø	298-1390-ND	10.36	99.43	207.14	—	LCC2-14AW-Q
	2	1/4"	Long Barrel with Window	.55	2.87	.27ø	298-1393-ND	8.92	85.68	210.63	357.00	LCC4-14ADW-L
	1/0	1/4"	Long Barrel with Window	.76	3.07	.27ø	298-1388-ND	12.63	101.03	—	—	LCC1/0-14AW-X
	3/0	3/8"	Long Barrel with Window	.96	3.70	.41ø	298-1391-ND	15.06	120.45	—	—	LCC3/0-38DW-X
	4/0	3/8"	Long Barrel with Window	1.06	3.81	.41ø	298-1392-ND	16.73	133.88	—	—	LCC4/0-38DW-X
NEW! Splices NEW!												
4	6	—	Long Barrel	2.38	—	—	298-1401-ND	6.56	52.48	—	—	SCL6-L
	4	—	Long Barrel	2.38	—	—	298-1400-ND	7.95	76.36	187.72	318.18	SCL4-L
	2	—	Long Barrel	2.82	—	—	298-1397-ND	9.65	92.66	193.05	—	SCL2-Q
	1/0	—	Long Barrel	2.87	—	—	298-1396-ND	12.58	100.67	—	—	SCL1/0-X
	3/0	—	Long Barrel	3.12	—	—	298-1398-ND	15.57	124.54	—	—	SCL3/0-X
	4/0	—	Long Barrel	3.37	—	—	298-1399-ND	16.47	131.74	—	—	SCL4/0-X
NEW! Tools NEW!												
—	Wire Stripper						298-1384-ND	96.69	922.63	—	—	CST114-157
	Crimp Tool, 8 ~ 1 AWG						298-1402-ND	298.97	2870.16	7055.80	11958.99	CT-1700

A

PANDUIT Wire Terminals

Fig.	Description	Digi-Key Part No.	Pricing 10	50	100	500	1,000	Panduit Part No.
	Butt Splices							
1	Butt Splice, Non-Insulated, 12 ~ 10AWG	298-9980-ND	2.61	12.52	23.94	108.83	204.60	BS10-D
2	Butt Splice, Nylon, 12 ~ 10AWG	298-9988-ND	4.20	20.12	38.49	174.94	328.89	BSN10-D
	Butt Splice, Nylon, 16 ~ 14AWG	298-9991-ND	3.15	15.08	28.86	137.73	262.35	BSN14-M
	Butt Splice, Nylon, 22 ~ 18AWG	298-9993-ND	3.15	15.08	28.86	137.73	262.35	BSN18-M
	Butt Splice, Nylon, 26 ~ 22AWG	298-9995-ND	3.56	17.06	32.64	155.77	296.70	BSN22-M
	Butt Splice, Vinyl, 12 ~ 10AWG	298-9996-ND	4.36	20.88	39.94	181.55	341.32	BSV10X-D
	Butt Splice, Vinyl, 16 ~ 14AWG	298-9999-ND	2.94	14.08	26.93	128.53	244.83	BSV14X-M
	Butt Splice, Vinyl, 22 ~ 18AWG	298-10000-ND	8.06	38.62	73.89	335.85	631.40	BSV18X-LY
	Disconnects							
3	Disconnect Female, Non-Insulated, 12 ~ 10AWG, .25”	298-10001-ND	2.67	12.79	24.47	111.21	209.08	D10-250-D
	Disconnect Female, Non-Insulated, 16 ~ 14AWG, .187”	298-10006-ND	1.58	7.59	14.53	69.33	132.06	D14-187-M
	Disconnect Female, Non-Insulated, 16 ~ 14AWG, .25”	298-10008-ND	1.58	7.59	14.53	69.33	132.06	D14-250-M
	Disconnect Female, Non-Insulated, 22 ~ 18AWG, .187”	298-10012-ND	1.58	7.59	14.53	69.33	132.06	D18-187-M
	Disconnect Female, Non-Insulated, 22 ~ 18AWG, .25”	298-10014-ND	1.58	7.59	14.53	69.33	132.06	D18-250-M
4	Disconnect Female, Nylon, 16 ~ 14AWG, .187”	298-10020-ND	3.02	14.48	27.70	132.20	251.81	DNF14-187-M
	Disconnect Female, Nylon, 16 ~ 14AWG, .25”	298-10022-ND	2.80	13.40	25.63	122.31	232.98	DNF14-250-M
	Disconnect Female, Nylon, 22 ~ 18AWG, .187”	298-10026-ND	2.91	13.93	26.66	127.22	242.33	DNF18-187-M
	Disconnect Female, Nylon, 22 ~18AWG, .25”	298-10028-ND	2.80	13.41	25.64	122.39	233.13	DNF18-250-M
	Disconnect Female, Vinyl, 12 ~ 10AWG, .25”	298-10031-ND	3.94	18.89	36.14	164.26	308.81	DV10-250-D
5	Disconnect Male, Non-Insulated, 12 ~ 10AWG, .25”	298-10003-ND	2.45	11.76	22.50	102.26	192.25	D10-250M-D
	Disconnect Male, Non-Insulated, 16 ~ 14AWG, .25”	298-10010-ND	1.27	6.06	11.60	55.36	105.45	D14-250MB-M
	Disconnect Male, Non-Insulated, 22 ~ 18AWG, .25”	298-10016-ND	1.10	5.25	10.04	47.91	91.26	D18-250MB-M
6	Disconnect Male, Nylon, 12 ~ 10AWG, .25”	298-10017-ND	4.81	23.05	44.10	210.47	376.85	DNF10-250M-D
	Disconnect Male, Nylon, 16 ~ 14AWG, .25”	298-10024-ND	3.01	14.42	27.58	131.62	250.71	DNF14-250M-M
	Disconnect Male, Nylon, 22 ~ 18AWG, .25”	298-10030-ND	3.01	14.42	27.58	131.62	250.71	DNF18-250M-M
	Terminal Rings							
7	Terminal Ring, Non-Insulated, 12 ~ 10AWG, 1/4”	298-10048-ND	1.87	8.96	17.15	77.95	146.54	P10-14R-D
	Terminal Ring, Non-Insulated, 12 ~ 10AWG, 3/8”	298-10050-ND	2.14	10.25	19.61	89.13	167.57	P10-38R-D
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, #10	298-10053-ND	11.50	55.10	105.40	503.06	958.20	P14-10R-M
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 1/4”	298-10055-ND	1.70	8.15	15.60	74.44	141.80	P14-14R-M
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 3/8”	298-10057-ND	1.95	9.33	17.86	85.22	162.32	P14-38R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #10	298-10059-ND	1.17	5.62	10.75	51.29	97.69	P18-10R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #4	298-10061-ND	1.14	5.46	10.44	49.81	94.88	P18-4R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #6	298-10063-ND	1.17	5.62	10.75	51.29	97.69	P18-6R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #10	298-10065-ND	1.11	5.31	10.15	48.44	92.28	P22-10R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #4	298-10067-ND	1.11	5.31	10.15	48.44	92.28	P22-4R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #8	298-10069-ND	1.11	5.31	10.15	48.44	92.28	P22-8R-M
8	Terminal Ring, Vinyl, 12 ~ 10AWG, 1/4”	298-10070-ND	2.67	12.79	24.47	111.22	209.09	PV10-14R-D
	Terminal Ring, Vinyl, 12 ~ 10AWG, 3/8”	298-10072-ND	2.85	13.65	26.12	118.71	223.17	PV10-38R-D
	Terminal Ring, Vinyl, 16 ~ 14AWG, #10	298-10075-ND	1.69	8.09	15.47	73.82	140.61	PV14-10R-M
	Terminal Ring, Vinyl, 16 ~ 14AWG, 1/4”	298-10077-ND	2.42	11.61	22.20	105.97	201.84	PV14-14R-M
	Terminal Ring, Vinyl, 16 ~ 14AWG, 3/8”	298-10079-ND	2.54	12.19	23.31	111.26	211.93	PV14-38R-M
	Terminal Ring, Vinyl, 22 ~ 18AWG, #10	298-10080-ND	6.89	32.99	57.38	283.18	539.38	PV18-10R-CY
	Terminal Ring, Vinyl, 22 ~ 18AWG, #4	298-10081-ND	7.01	33.58	58.40	288.20	548.95	PV18-4R-CY
	Terminal Ring, Vinyl, 22 ~ 18AWG, #6	298-10082-ND	6.61	31.69	55.12	272.02	518.13	PV18-6R-CY
	Terminal Ring, Vinyl, 26 ~ 22AWG, #10	298-10084-ND	2.16	10.33	19.76	94.29	179.60	PV22-10R-MY
	Terminal Ring, Vinyl, 26 ~ 22AWG, #4	298-10086-ND	2.16	10.33	19.76	94.29	179.60	PV22-4R-MY
	Terminal Ring, Vinyl, 26 ~ 22AWG, #8	298-10088-ND	1.90	9.09	17.39	82.98	158.05	PV22-8R-M
	Ferrules							
9	Ferrule Insulated, Vinyl, 3/8”, 26AWG, Gray	298-10033-ND	—	—	—	83.76	—	FSD72-6-D
	Ferrule Insulated, Vinyl, 3/8”,24AWG, Turquoise	298-10034-ND	—	—	—	83.76	—	FSD74-6-D
	Ferrule Insulated, Vinyl, 3/8”, 22AWG, White	298-10035-ND	—	—	—	70.30	—	FSD75-6-D
	Ferrule Insulated, Vinyl, 15/32”, 22AWG, White	298-10036-ND	—	—	—	70.30	—	FSD75-8-D
	Ferrule Insulated, Vinyl, 3/8”, 18AWG, Red	298-10038-ND	—	—	—	70.30	—	FSD77-6-D
	Ferrule Insulated, Vinyl, 5/8”, 18AWG, Red	298-10037-ND	—	—	—	70.30	—	FSD77-12-D
	Ferrule Insulated, Vinyl, 17/32”, 16AWG, Black	298-10039-ND	—	—	—	82.56	—	FSD78-10-D
	Ferrule Insulated, Vinyl, 5/8”, 16AWG, Black	298-10040-ND	—	—	—	82.56	—	FSD78-12-D
	Ferrule Insulated, Vinyl, 15/32”, 14AWG, Yellow	298-10041-ND	—	—	—	82.56	—	FSD79-8-D
	Ferrule Insulated, Vinyl, 5/8”, 12AWG, Gray	298-10042-ND	—	—	19.81	—	—	FSD81-12-C
	Ferrule Insulated, Vinyl, 3/8”, 22AWG, White	298-10043-ND	—	—	—	56.13	—	FSF75-6-D
	Ferrule Insulated, Vinyl, 3/8”, 18AWG, Red	298-10044-ND	—	—	—	56.13	—	FSF77-6-D
	Ferrule Insulated, Vinyl, 15/32”, 16AWG, Black	298-10045-ND	—	—	—	72.17	—	FSF78-8-D
	Ferrule Insulated, Vinyl, 15/32”, 14AWG, Gray	298-10046-ND	—	—	—	80.19	—	FSF80-8-D
	Ferrule Insulated, Vinyl, 7/8”, 12AWG, Orange	298-10047-ND	—	—	32.08	—	—	FSF81-18-C

Fig. 1

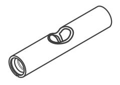

Fig. 2

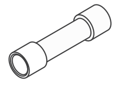

Fig. 3

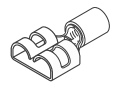

Fig. 4

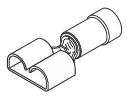

Fig. 5

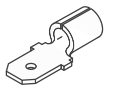

Fig. 6

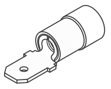

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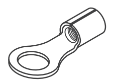

Fig. 8

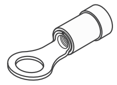

Fig. 9

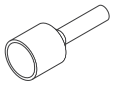

NEW! Tools and Kits

Tool Features: CT-100A and CT-160: • Installer controlled crimp • Available with wire stripping and cutting features **CT-1550 and CT-1525:** • Controlled cycle mechanism assures high quality consistent terminations • Ergonomic tool design assures operator comfort, safety, and performance • Polypropylene handles provide chemical resistance and a cushioned, non-slip grip

Tool Kit Features: • Ideal for maintenance and construction wiring • Positive latching case prevents accidental opening • With the case top closed, parts remain in their compartments • Case features a hanging tab for storage

Fig. 1

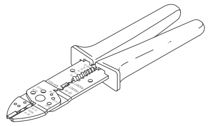

Fig. 2

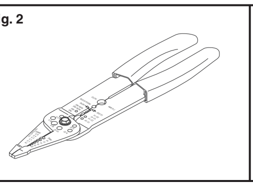

Fig. 3

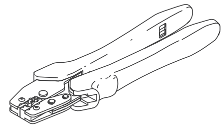

Fig. 4

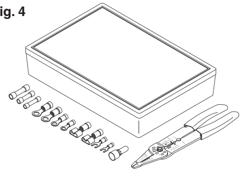

Fig. 5

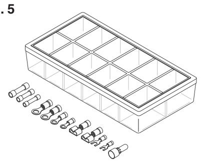

Fig.	Description	Digi-Key Part No.	Pricing 1	10	25	Panduit Part No.
	Tools					
1	Terminal Crimp, 10 ~ 22AWG	298-1378-ND	55.95	497.72	1180.73	CT-100A
2	Crimp Plier-type, 10 ~ 26AWG	298-1379-ND	47.40	421.69	1000.35	CT-160
3	Terminal Crimp, Insulated, Controlled Cycle	298-1380-ND	314.99	2802.20	6647.55	CT-1550
	Terminal Crimp, 10 ~ 22AWG, Fully Insulated Disconnects, Controlled Cycle	298-1381-ND	314.99	2802.20	6647.55	CT-1525
	Tool Kits —RoHS Compliant					
4	Terminal Kit with Crimp Tool, Plastic Box	298-1382-ND	140.25	1247.66	2959.78	KP-1165Y
5	Terminal Kit without Crimp Tool, Plastic Box	298-1383-ND	67.85	603.62	1431.95	KP-1075Y

AMP PIDG Ring Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts: • Temperature Rating:** 105°C maximum **• AMP Wire:** Solid or Stranded **• Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. **• Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. **• Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG Insulation Restricting Terminals: **Material:** • Insulation: Nylon • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Nickel per QQ-N-290 or Tin per MIL-T-10727. Insulation Restriction Terminals prevent the insulation of thin-wall insulation wire from entering the terminal's wire crimp area during the crimping process.

PIDG Radiation Resistant: **Temp. Rating:** 150°C maximum **Material:** • Insulation: Polyvinylidene Fluoride (PVF_2) • Terminal, Splice Body & Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727

Fig. 1
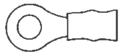

Fig. 2
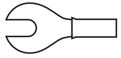

Fig. 3
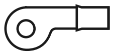

Fig. 4
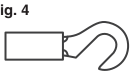

PIDG - Ring

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
							26-24 AWG Yellow							
1	4	.203 x .736	.105	A27492-ND	.84	.74	52189	—	—	—	—	—	—	—
	6	.250 x .792	.105	A27493-ND	.77	.68	53073	—	—	—	—	—	—	—
							26-22 AWG Yellow							
1	0	.140 x .525	.082	A27224-ND	.54	.48	321013	—	—	—	—	—	—	—
	2	.140 x .525	.082	A0879-ND	.30	.26	323912	A0879CT-ND	—	321.28	A0879TR-ND	4,000	257.02/M	2-323912-1
	2	.140 x .615	.082	A27225-ND	.58	.51	329951	—	—	—	—	—	—	—
	4	.203 x .646	.082	A0880-ND	.39	.34	323914	—	—	—	—	—	—	—
	6	.203 x .646	.082	A0881-ND	.35	.31	323915	—	—	—	—	—	—	—
	6	.250 x .740	.082	A27226-ND	.31	.27	326875	—	—	—	—	—	—	—
	8	.250 x .740	.082	A0882-ND	.54	.47	323916	A0882CT-ND	—	321.28	A0882TR-ND	4,000	257.02/M	2-323916-1
	10	.250 x .740	.082	A0883-ND	.59	.52	324075	—	—	—	—	—	—	—
							24-20 AWG Natural							
1	2	.160 x .589	.100	A27495-ND	.85	.75	329636	—	—	—	—	—	—	—
	6	.281 x .774	.100	A27496-ND	.56	.49	323986	—	—	—	—	—	—	—
	8	.312 x .821	.100	A27497-ND	.62	.54	323989	—	—	—	—	—	—	—
	10	.312 x .821	.100	A27498-ND	.62	.54	323990	—	—	—	—	—	—	—
							22-16 AWG Red							
1	2	.182 x .669	.125	A27499-ND	.54	.48	324158	—	—	—	—	—	—	—
	2	.182 x .669	.140	A27500-ND	.49	.44	320773	—	—	—	—	—	—	—
	2	.218 x .672	.125	A0884-ND	.49	.44	328657	—	—	—	—	—	—	—
	4	.182 x .669	.140	A27228-ND	.49	.44	320882	A27228CT-ND	—	298.85	A27228TR-ND	5,000	239.08/M	2-320882-1
	4	.218 x .672	.125	A27227-ND	.36	.32	320553	A27227CT-ND	—	188.83	A27227TR-ND	5,000	151.06/M	2-320553-2
	4	.218 x .672	.140	A1087-ND	.31	.27	31880	A1087CT-ND	—	334.53	A1087TR-ND	5,000	267.62/M	2-31880-1
	4	.250 x .844	.125	A27229-ND	.64	.56	323758	A27229CT-ND	—	717.30	A27229TR-ND	5,000	573.84/M	2-323758-1
	4	.250 x .844	.140	A27230-ND	.71	.62	330648	—	—	—	—	—	—	—
	6	.218 x .672	.125	A27231-ND	.31	.27	36149	—	—	—	—	—	—	—
	6	.218 x .672	.140	A27232-ND	.36	.32	36150	A27232CT-ND	—	188.83	A27232TR-ND	5,000	151.06/M	2-36150-1
	6	.250 x .782	.125	A27233-ND	.25	.22	51863	A27233CT-ND	—	188.83	A27233TR-ND	5,000	151.06/M	51863-1
	6	.281 x .797	.125	A27234-ND	.27	.24	36151	A27234CT-ND	—	188.83	A27234TR-ND	5,000	151.06/M	2-36151-2
	6	.281 x .797	.140	A1060-ND	.26	.23	36152	A1060CT-ND	—	188.83	A1060TR-ND	5,000	151.06/M	2-36152-1
	6	.312 x .844	.125	A27235-ND	.62	.54	323008	A27235CT-ND	—	463.40	A27235TR-ND	5,000	370.72/M	2-323008-1
	6	.312 x .844	.140	A27236-ND	.49	.44	326878	—	—	—	—	—	—	—
	8	.281 x .797	.125	A27239-ND	.30	.26	320554	A27239CT-ND	—	188.83	A27239TR-ND	5,000	151.06/M	2-320554-1
	8	.281 x .797	.140	A27238-ND	.35	.31	31886	A27238CT-ND	—	234.90	A27238TR-ND	5,000	187.92/M	2-31886-2
	8	.312 x .844	.140	A1061-ND	.26	.23	31890	A1061CT-ND	—	188.83	A1061TR-ND	5,000	151.06/M	2-31890-1
	8	.312 x .844	.125	A27511-ND	.49	.43	31888	—	—	—	—	—	—	—
	8	.312 x .844	.125	A27237-ND	.28	.25	320551	A27237CT-ND	—	188.83	A27237TR-ND	5,000	151.06/M	1-320551-1
	8	.344 x .876	.140	A27240-ND	.63	.55	32835	—	—	—	—	—	—	—
	10	.281 x .797	.125	A27243-ND	.30	.26	320552	A27243CT-ND	—	188.83	A27243TR-ND	5,000	151.06/M	2-320552-1
	10	.281 x .797	.140	A27242-ND	.30	.26	31887	—	—	—	—	—	—	—
	10	.312 x .844	.125	A27241-ND	.26	.23	36153	A27241CT-ND	—	188.83	A27241TR-ND	5,000	151.06/M	2-36153-2
	10	.312 x .844	.140	A1062-ND	.25	.22	36154	A1062CT-ND†	—	188.83	A1062TR-ND†	5,000	151.06/M	2-36154-2
	10	.344 x .876	.125	A27244-ND	.67	.59	32836	—	—	—	—	—	—	—
	10	.344 x .876	.140	A27245-ND	.48	.42	32837	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.125	A27246-ND	.42	.37	320571	A27246CT-ND	—	298.85	A27246TR-ND	5,000	239.08/M	2-320571-2
	1/4	.469 x 1.078	.140	A0885-ND	.42	.37	31894	A0885CT-ND	—	210.33	A0885TR-ND	5,000	168.26/M	2-31894-2
	5/16	.469 x 1.078	.125	A27247-ND	.60	.52	320572	—	—	—	—	—	—	—
	5/16	.469 x 1.078	.140	A0886-ND	.89	.79	31895	A0886CT-ND	—	385.90	A0886TR-ND	5,000	308.72/M	2-31895-1
	3/8	.531 x 1.218	.140	A0887-ND	.54	.48	31897	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.125	A27248-ND	.61	.54	320573	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.125	A0888-ND	1.21	1.07	328975	—	—	—	—	—	—	—
							22-16 AWG Red/Green							
1	4	.182 x .669	.125	A99251-ND	.65	.57	327654	—	—	—	—	—	—	—
							16-14 AWG Blue							
1	4	.250 x .703	.150	A27249-ND	.51	.45	324159	A27249CT-ND	—	464.08	A27249TR-ND	5,000	371.26/M	2-324159-2
	4	.250 x .703	.170	A1091-ND	.49	.44	328996	A1091CT-ND	—	298.85	A1091TR-ND	5,000	239.08/M	2-328996-1
	4	.250 x .813	.150	A27502-ND	.87	.76	323676	—	—	—	—	—	—	—
	6	.250 x .703	.150	A27253-ND	.31	.27	320561	A27253CT-ND	—	188.83	A27253TR-ND	5,000	151.06/M	2-320561-2
	6	.250 x .703	.170	A1070-ND	.27	.24	320619	—	—	—	—	—	—	—
	6	.250 x .813	.170	A27504-ND	.55	.48	50881	—	—	—	—	—	—	—
	6	.312 x .813	.170	A27254-ND	.49	.44	326882	A27254CT-ND	—	298.85	A27254TR-ND	5,000	239.08/M	2-326882-1
	6	.312 x .844	.150	A27250-ND	.33	.29	51864	—	—	—	—	—	—	—
	6	.343 x .859	.150	A27251-ND	.49	.44	36157	A27251CT-ND	—	188.83	A27251TR-ND	5,000	151.06/M	2-36157-2
	6	.343 x .859	.170	A27252-ND	.30	.26	36158	—	—	—	—	—	—	2-36158-1
	8	.312 x .813	.170	A27257-ND	.60	.53	53941-1	A27257CT-ND	—	324.40	A27257TR-ND	5,000	259.52/M	53941-2
	8	.312 x .844	.150	A27255-ND	.33	.29	51864-1	A27255CT-ND	—	219.33	A27255TR-ND	5,000	175.46/M	51864-5
	8	.343 x .859	.150	A27256-ND	.30	.26	320560	A27256CT-ND	—	179.40	A27256TR-ND	5,000	143.52/M	2-320560-1
	8	.343 x .859	.170	A1071-ND	.27	.24	320565	A1071CT-ND	—	188.83	A1071TR-ND	5,000	151.06/M	2-320565-1
	10	.312 x .844	.150	—	—	—	—	A28118CT-ND†	—	397.61	A28118TR-ND†	5,000	407.80/M	51861-4
	10	.312 x .813	.170	A27260-ND	.40	.35	53942-1	A27260CT-ND	—	324.40	A27260TR-ND	5,000	259.52/M	53942-2
	10	.312 x .844	.150	A27258-ND	.33	.29	51864-2	—	—	—	—	—	—	—
	10	.343 x .859	.150	A27259-ND	.30	.26	320574	A27259CT-ND	—	298.85	A27259TR-ND	5,000	239.08/M	2-320574-2
	10	.343 x .859	.170	A1072-ND	.24	.22	36160	A1072CT-ND	—	188.83	A1072TR-ND	5,000	151.06/M	2-36160-1
	10	.343 x .859	.170	A27512-ND†	.58	.51	31903	—	—	—	—	—	—	—
	10	.469 x 1.078	.170	A27261-ND	.86	.75	324533	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.150	A27262-ND	.36	.32	320563	A27262CT-ND	—	203.00	A27262TR-ND	4,000	162.40/M	2-320563-2
	1/4	.469 x 1.078	.170	A0889-ND	.34	.30	321045	A0889CT-ND	—	265.65	A0889TR-ND	4,000	212.52/M	2-321045-1
	5/16	.469 x 1.078	.150	A27263-ND	.60	.52	320575	—	—	—	—	—	—	—
	5/16	.469 x 1.078	.170	A0890-ND	.52	.46	328998	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.150	A27264-ND	.61	.54	320564	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.170	A0891-ND	.59	.52	328999	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.150	A27265-ND	1.32	1.17	328976	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.170	A0892-ND	1.28	1.13	328849	—	—	—	—	—	—	—
							16-14 AWG Yellow/Black (Heavy Duty for Extra Mechanical Strength)							
1	6	.281 x .953	.230	A27267-ND	.73	.64	320631	—	—	—	—	—	—	—
	6	.281 x .953	.250	A27266-ND	.73	.64	35634	—	—	—	—	—	—	—
	8	.343 x 1.046	.230	A09035-ND	.79	.69	320627	A09035CT-ND	294.57	535.58	A09035TR-ND	2,500	428.46/M	1-320627-0
	8	.343 x 1.046	.250	A27268-ND	.44	.39	35106	A27268CT-ND	407.33	740.60	A27268TR-ND	2,500	592.48/M	2-35106-1

† Vinyl Insulation

(Continued)

AMP PIDG Ring Terminals

PIDG - Ring *(Cont.)*

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
1	10	.343 x 1.046	.230	A09036-ND	.86	.76	320630	A09036CT-ND	323.84	588.80	A09036TR-ND	2,500	471.04/M	2-320630-2
	10	.343 x 1.046	.250	A27269-ND	.55	.49	34805	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27270-ND	.79	.70	34974	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.250	A27506-ND	1.12	.98	323682	A27506CT-ND	623.32	1133.30	A27506TR-ND	2,500	906.64/M	2-323682-1
	1/4	.531 x 1.296	.230	A27271-ND	.60	.53	327743	—	—	—	—	—	—	—
	1/4	.531 x 1.296	.250	A09037-ND	.83	.73	34806	—	—	—	—	—	—	—
	5/16	.531 x 1.296	.250	A27507-ND	1.10	.97	34810	—	—	—	—	—	—	—
	3/4	1.25 x 2.219	.250	A27509-ND	3.76	3.31	322724	—	—	—	—	—	—	—
	3/8	.531 x 1.296	.230	A27508-ND	1.13	.99	330896	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A09038-ND	1.69	1.49	35316	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	4	.281 x .953	.250	A27272-ND	.97	.85	35148	—	—	—	—	—	—	—
	6	.281 x .953	.230	A27273-ND	.60	.53	320634	—	—	—	—	—	—	—
	6	.281 x .953	.250	A0893-ND	.54	.48	35149	—	—	—	—	—	—	—
	6	.312 x 1.052	.230	A27274-ND	.89	.78	326886	—	—	—	—	—	—	—
	6	.375 x 1.083	.230	A27276-ND	.62	.55	320567	A27276CT-ND	157.36	286.10	A27276TR-ND	2,500	228.88/M	2-320567-2
	6	.375 x 1.083	.250	A27275-ND	.36	.32	35107	—	—	—	—	—	—	—
	8	.312 x 1.031	.230	A27277-ND	.60	.53	35787	—	—	—	—	—	—	—
	8	.312 x 1.052	.230	A27278-ND	.80	.71	324915	—	—	—	—	—	—	—
	8	.375 x 1.083	.230	A27280-ND	.44	.39	320568	A27280CT-ND	157.36	286.10	A27280TR-ND	2,500	228.88/M	2-320568-1
	8	.375 x 1.083	.250	A1081-ND	.35	.31	35108	—	—	—	—	—	—	—
	8	.375 x 1.172	.300	A27279-ND†	.98	.87	35605	—	—	—	A27279TR-ND†	1,500	935.18/M	2-35605-2
	10	.312 x 1.052	.230	A27282-ND	.62	.55	324918	—	—	—	—	—	—	—
	10	.343 x 1.046	.230	A27281-ND	.54	.48	32883	A27281CT-ND	769.48	1399.05	A27281TR-ND	2,500	1119.24/M	1-32883-0
	10	.375 x 1.083	.230	A27284-ND	.34	.30	36161	A27284CT-ND	157.36	286.10	A27284TR-ND	2,500	228.88/M	2-36161-2
	10	.375 x 1.083	.250	A1082-ND	.34	.30	35109	A1082CT-ND	147.74	268.63	A1082TR-ND	2,500	214.90/M	2-35109-1
	10	.375 x 1.172	.300	A27283-ND†	1.09	.96	35364	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27285-ND	.59	.52	35273	A27285CT-ND	503.43	915.33	A27285TR-ND	2,500	732.26/M	2-35273-2
	1/4	.500 x 1.277	.300	A27286-ND†	.98	.87	323763	—	—	—	—	—	—	—
	1/4	.531 x 1.322	.230	A27288-ND	.51	.45	320569	A27288CT-ND	157.36	286.10	A27288TR-ND	2,500	228.88/M	2-320569-3
	1/4	.531 x 1.322	.250	A1083-ND	.51	.45	35110	A1083CT-ND	181.17	329.40	A1083TR-ND	2,500	263.52/M	2-35110-1
	1/4	.531 x 1.416	.300	A27287-ND†	.89	.78	35345	—	—	—	—	—	—	—
	3/8	.593 x 1.414	.250	A1084-ND	.72	.64	35112	—	—	—	—	—	—	—
	3/8	.593 x 1.414	.230	A27291-ND	.72	.64	320577	—	—	—	—	—	—	—
	3/8	.750 x 1.594	.250	A27510-ND	1.89	1.67	35150	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A0894-ND	.75	.66	35151	—	—	—	—	—	—	—
	5/16	.531 x 1.322	.250	A1095-ND	.65	.57	35111	A1095CT-ND	181.17	329.40	A1095TR-ND	2,500	263.52/M	2-35111-1
	5/16	.531 x 1.322	.230	A27290-ND	.54	.48	320576	—	—	—	—	—	—	—
	5/16	.531 x 1.416	.300	A27289-ND†	.89	.79	35346	—	—	—	—	—	—	—

† Vinyl Insulation

PIDG Slotted Ring Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AMP Part No.
2	26-22 Yellow	6	.250 x .719	.082	A27448-ND	.57	.50	323011	A27448CT-ND	394.53	A27448TR-ND	4,000	315.62/M	2-323011-2
	22-16 Red	8	.281 x .770	.140	A27449-ND	.63	.56	36954	—	—	—	—	—	—

PIDG Ring Tongue Insulation Restricting Terminals

Fig.	Color	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	Red/Green	22	4	.218 x .734	.038 - .110	A27334-ND	.70	.61	52273
	Red/Green	22	6	.250 x .844	.038 - .110	A27335-ND	.70	.61	51863-2
	Red/Green	22	6	.218 x .672	.038 - .110	A99254-ND	.70	.61	2-36149-3
	Red/Green	22	8	.312 x .906	.038 - .110	A27336-ND	.70	.61	1-320551-2
	Red/Green	22	10	.312 x .906	.038 - .110	A27337-ND	.63	.55	2-36153-3
	Red/Red	18	4	.218 x .734	.046 - .110	A99249-ND	.76	.67	52273-2
	Red/Red	20	4	.218 x .734	.046 - .110	A27338-ND	.70	.61	52273-1
	Red/Red	20	6	.218 x .734	.046 - .110	A27339-ND	.70	.61	2-36149-4
	Red/Red	20	6	.250 x .844	.046 - .110	A27340-ND	.49	.43	51863-3
	Red/Red	20	8	.312 x .906	.046 - .110	A27341-ND	.63	.55	1-320551-3
	Red/Red	20	10	.312 x .906	.046 - .110	A27342-ND	.70	.61	2-36153-4
	Red/White	18	6	.218 x .734	.056 - .110	A27343-ND	.70	.61	2-36149-5
	Red/White	18	6	.250 x .844	.056 - .110	A27344-ND	.70	.61	51863-4
	Red/White	18	8	.312 x .906	.056 - .110	A27345-ND	.70	.61	1-320551-4
	Red/White	18	10	.312 x .906	.056 - .110	A27346-ND	.70	.61	2-36153-5
	Blue/Blue	16	6	.250 x .765	.063 - .130	A27347-ND	.70	.61	2-320561-3
	Blue/Blue	16	8	.312 x .906	.063 - .130	A27349-ND	.70	.61	1-51864-0
	Blue/Blue	16	10	.312 x .906	.063 - .130	A27350-ND	.70	.61	51864-7
	Blue/Blue	16	1/4	.469 x 1.140	.063 - .130	A27513-ND	1.17	1.03	2-320563-3
	Blue/Green	14	6	.312 x .906	.078 - .130	A27351-ND	.77	.68	51864-8
	Blue/Green	14	8	.312 x .906	.078 - .130	A27352-ND	.70	.61	1-51864-1
	Blue/Green	14	10	.312 x .906	.078 - .130	A27353-ND	.70	.61	51864-9
	Blue/Green	14	1/4	.469 x 1.140	.078 - .130	A27514-ND	.97	.85	2-320563-4
	Yellow/Yellow	12	6	.375 x 1.148	.095 - .200	A27354-ND	1.10	.97	2-36161-5
	Yellow/Yellow	12	8	.375 x 1.148	.095 - .200	A27355-ND	.78	.69	2-320568-2
	Yellow/Yellow	12	10	.375 x 1.148	.095 - .200	A27356-ND	.87	.76	2-36161-3
	Yellow/Yellow	12	1/4	.531 x 1.392	.095 - .200	A27515-ND	1.44	1.27	2-320569-5
	Yellow/Brown	10	8	.375 x 1.148	.119 - .200	A27357-ND	.93	.82	2-320568-3
	Yellow/Brown	10	10	.375 x 1.148	.119 - .200	A27358-ND	1.03	.91	2-36161-4
	Yellow/Brown	10	1/4	.531 x 1.392	.119 - .200	A27516-ND	1.15	1.02	2-320569-6
	Yellow/Brown	10	5/16	.531 x 1.392	.119 - .200	A27517-ND	1.38	1.22	2-320576-3

PIDG Offset Ring Tongue Terminals

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16 Red	6	.375 x .906	.125	A27526-ND	.81	.71	323039
	22-16 Red	10	.375 x .906	.125	A27527-ND	1.02	.90	324011
	16-14 Blue	6	.375 x .906	.150	A27528-ND	1.00	.88	323817
	16-14 Blue	10	.375 x .906	.150	A27529-ND	1.00	.88	323818

PIDG Ring Tongue Radiation Resistant

Fig.	AWG	Stud Size	Dimensions - Inch W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22-16 Red	6	.218 x .672	.125	A27292-ND	.79	.70	53406-1
	22-16 Red	6	.218 x .677	.125	A33723-ND◆	.79	.70	696422-3
	22-16 Red	6	.250 x .782	.125	A27293-ND	.67	.59	53407-1
	22-16 Red	6	.250 x .787	.125	A33724-ND◆	.74	.65	696422-4
	22-16 Red	8	.312 x .844	.125	A27294-ND	.79	.70	53408-1
	22-16 Red	8	.312 x .849	.125	A33725-ND◆	.74	.65	696422-5
	22-16 Red	10	.312 x .844	.125	A27295-ND	.67	.59	53409-1
	22-16 Red	10	.312 x .849	.125	A33726-ND◆	.79	.70	696422-6
	16-14 Blue	6	.250 x .703	.150	A27296-ND	.62	.55	53415-1
	16-14 Blue	6	.250 x .708	.150	A33727-ND◆	.81	.71	696423-3
	16-14 Blue	6	.312 x .849	.150	A33728-ND◆	.82	.73	696423-4
	16-14 Blue	8	.312 x .844	.150	A27298-ND	.58	.51	53417-1
	16-14 Blue	10	.312 x .844	.150	A27299-ND	.80	.70	53418-1
	16-14 Blue	10	.312 x .849	.150	A33730-ND◆	.82	.73	696423-6
	12-10 Yellow	8	.375 x 1.088	.230	A33731-ND◆	1.08	.95	696424-5
	12-10 Yellow	10	.375 x 1.088	.230	A33732-ND◆	1.08	.95	696424-6

◆ ***RoHS Compliant***

PIDG Hook Tongue Terminal

Fig.	AWG	Stud Size	Dimensions - Inch W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
4	16-14 Blue	8	.343 x .859	.170	A99252-ND	.59	.52	320306

Tools

A9996-ND	PRO-CRIMPER™ II Hand Tool without Dies	**$45.36**
A9991-ND	Die Set for Insulated Terminals, use with A9996-ND	**$49.68**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$90.72**
A9821-ND	PIDG and PLASTI-GRIP™ Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$154.62**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$41.10**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices	**$39.03**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**
A27981-ND	Hand Crimp Tool for PIDG 26-22 AWG	**$558.90**
A27982-ND	Hand Crimp Tool for PIDG 16-14 AWG	**$445.50**

AMP PIDG Spade Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

Fig. 1

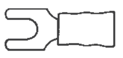

Fig. 2

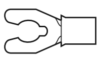

Fig. 3

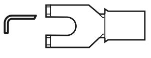

PIDG Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			500	1,000		Qty.	Pricing	
1	26-22 Yellow	4	.203 x .627	.082	A27415-ND	.53	.47	321035	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.140	A0895-ND	.49	.44	328394	—	—	—	—	—	—	—
	22-16 Red	4	.218 x .674	.140	A0896-ND	.54	.48	327717	—	—	—	—	—	—	—
	22-16 Red	6	.250 x .846	.140	A1063-ND	.26	.23	34541	A1063CT-ND	—	214.33	A1063TR-ND	5,000	171.46/M	2-34541-1
	22-16 Red	6	.297 x .753	.125	A27416-ND	.30	.26	34080	A27416CT-ND	—	324.40	A27416TR-ND	5,000	259.52/M	2-34080-1
	22-16 Red	6	.297 x .753	.140	A27417-ND	.30	.26	326861	—	—	—	—	—	—	—
	22-16 Red	8	.375 x .908	.125	A27418-ND	.68	.60	32050	A27418CT-ND	—	926.75	A27418TR-ND	5,000	741.40/M	2-32050-1
	22-16 Red	8	.375 x .908	.140	A1064-ND	.44	.39	32053	—	—	—	—	—	—	—
	22-16 Red	10	.375 x .908	.125	A27419-ND	.83	.74	32051	—	—	—	—	—	—	—
	22-16 Red	10	.375 x .908	.140	A1065-ND	.49	.44	32054	—	—	—	—	—	—	—
	16-14 Blue	6	.244 x .846	.170	A27421-ND	.57	.50	328281	A27421CT-ND	—	741.48	A27421TR-ND	5,000	593.18/M	1-328281-1
	16-14 Blue	6	.297 x .753	.170	A1073-ND	.26	.23	35559	A1073CT-ND	—	298.85	A1073TR-ND	5,000	239.08/M	2-35559-1
	16-14 Blue	6	.385 x .908	.170	A27420-ND	.49	.44	32058	—	—	—	—	—	—	—
	16-14 Blue	8	.297 x .753	.170	A1074-ND	.49	.44	321233	—	—	—	—	—	—	—
	16-14 Blue	8	.312 x 1.034	.170	A27519-ND	.85	.75	325199	—	—	—	—	—	—	—
	16-14 Blue	8	.385 x .908	.150	A27422-ND	.49	.44	32056	—	—	—	—	—	—	—
	16-14 Blue	8	.385 x .908	.170	A0897-ND	.49	.44	32059	—	—	—	—	—	—	—
	16-14 Blue	10	.385 x .908	.150	A27520-ND	.49	.44	32057	—	—	—	—	—	—	—
	16-14 Blue	10	.385 x .908	.170	A1075-ND	.49	.44	32060	A1075CT-ND	—	648.38	A1075TR-ND	5,000	518.70/M	2-32060-1
	12-10 Yellow	6	.290 x .954	.230	A27423-ND	.97	.86	322985	—	—	—	—	—	—	—
	12-10 Yellow	6	.312 x 1.095	.230	A27424-ND	.91	.81	326859	—	—	—	—	—	—	—
	12-10 Yellow	8	.406 x 1.095	.230	A0898-ND	.60	.53	32588	—	—	—	—	—	—	—
	12-10 Yellow	10	.406 x 1.095	.230	A1085-ND	.60	.53	32589	—	—	—	—	—	—	—

PIDG Spring Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			500	1,000		Qty.	Pricing	
								Short							
2	26-22 Yellow	4	.203 x .695	.082	A27434-ND	.87	.77	52922	—	—	—	—	—	—	—
	26-22 Yellow	6	.250 x .679	.082	A27435-ND	.51	.45	52924	A27435CT-ND	—	432.05	A27435TR-ND	4,000	259.23/M	52924-1
	26-22 Yellow	8	.375 x .787	.082	A27436-ND	1.24	1.09	52925	—	—	—	—	—	—	—
	22-16 Red	4	.203 x .799	.125	A0902-ND	.57	.51	52927	—	—	—	—	—	—	—
	22-16 Red	5	.250 x .799	.125	A27437-ND	.68	.60	52928	—	—	—	—	—	—	—
	22-16 Red	6	.250 x .799	.125	A1067-ND	.37	.33	52929	A1067CT-ND	—	242.33	A1067TR-ND	5,000	193.86/M	52929-1
	22-16 Red	6	.250 x .799	.140	—	—	—	—	A28004CT-ND	—	242.33	A28004TR-ND	5,000	193.86/M	52929-3
	22-16 Red	8	.375 x .860	.125	A1089-ND	.57	.50	52930	A1089CT-ND	—	242.33	A1089TR-ND	5,000	193.86/M	52930-1
	22-16 Red	10	.406 x .908	.125	A1099-ND	.82	.72	52931	—	—	—	—	—	—	—
	16-14 Blue	5	.250 x .799	.170	A28166-ND	.80	.71	52934	—	—	—	—	—	—	—
	16-14 Blue	6	.250 x .799	.170	A1078-ND	.37	.33	52935	—	—	—	—	—	—	—
	16-14 Blue	8	.375 x .860	.170	A1093-ND	.37	.33	52936	A1093CT-ND	—	242.33	A1093TR-ND	5,000	193.86/M	52936-1
	16-14 Blue	8	.375 x.860	.182	A28167-ND	.94	.83	52936-2	A28167CT-ND	—	1048.60	A28167TR-ND	5,000	838.88/M	52936-3
	16-14 Blue	10	.406 x .908	.170	A1094-ND	.40	.35	52937	—	—	—	—	—	—	—
	12-10 Yellow	6	.250 x .959	.250	A1096-ND	.68	.60	52941	A1096CT-ND	175.31	318.75	A1096TR-ND	2,500	255.00/M	52941-1
	12-10 Yellow	8	.375 x 1.052	.250	A1097-ND	.62	.54	52942	A1097CT-ND	175.31	318.75	A1097TR-ND	2,500	255.00/M	52942-1
	12-10 Yellow	10	.406 x 1.100	.250	A1098-ND	.68	.60	52943	—	—	—	—	—	—	—
	12-10 Yellow	1/4	.625 x 1.225	.250	A27439-ND	1.56	1.37	52945	—	—	—	—	—	—	—
								Long							
2	22-16 Red	6	.250 x .933	.125	A09040-ND	.61	.54	52409	—	—	—	—	—	—	—
	22-16 Red	6	.250 x .933	.140	A28156-ND	.65	.58	52409-2	—	—	—	—	—	—	—
	22-16 Red	8	.281 x .979	.125	A09041-ND	.90	.80	52410	A09041CT-ND	—	324.40	A09041TR-ND	5,000	259.52/M	52410-1
	22-16 Red	10	.343 x 1.005	.125	A09042-ND	.62	.55	52411	—	—	—	—	—	—	—
	16-14 Blue	6	.250 x .933	.150	A09043-ND	.57	.50	52420	A09043CT-ND	—	324.40	A09043TR-ND	5,000	259.52/M	52420-2
	16-14 Blue	6	.250 x .933	.170	A27446-ND	1.17	1.03	52420-1	A27446CT-ND	—	308.18	A27446TR-ND	5,000	246.54/M	52420-3
	16-14 Blue	8	.281 x .979	.150	A09044-ND	1.09	.96	52421	—	—	—	—	—	—	—
	16-14 Blue	8	.281 x .979	.170	A27447-ND	.57	.50	52421-1	—	—	—	—	—	—	—
	16-14 Blue	10	.343 x 1.005	.170	A09045-ND	.62	.55	52422-1	—	—	—	—	—	—	—
	12-10 Yellow	6	.312 x 1.131	.250	A27521-ND	1.22	1.07	52430-1	—	—	—	—	—	—	—
	12-10 Yellow	8	.375 x 1.174	.250	A27522-ND	1.24	1.10	52431-1	—	—	—	—	—	—	—
	12-10 Yellow	10	.375 x 1.219	.250	A27523-ND	1.27	1.12	52432-1	—	—	—	—	—	—	—
	12-10 Yellow	1/4	.437 x 1.289	.250	A27524-ND	1.34	1.18	52433-1	—	—	—	—	—	—	—

PIDG Flanged Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			500	1,000		Qty.	Pricing	
3	26-22 Yellow	2	.182 x .649	.082	A27426-ND	.94	.83	324597	—	—	—	—	—	—	—
	26-22 Yellow	4	.196 x .649	.082	A27427-ND	1.51	1.33	52369	—	—	—	—	—	—	—
	26-22 Yellow	6	.250 x .649	.082	A27428-ND	.96	.85	51874	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.125	A27429-ND	.71	.63	2-324608-2	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.140	A0899-ND	.65	.57	324608	—	—	—	—	—	—	—
	22-16 Red	6	.250 x .737	.125	A27431-ND	.54	.48	322777	A27431CT-ND	—	435.95	A27431TR-ND	5,000	348.76/M	2-322777-1
	22-16 Red	6	.296 x .737	.125	A27430-ND	.48	.42	32561	A27430CT-ND	—	231.98	A27430TR-ND	5,000	185.58/M	2-32561-1
	22-16 Red	6	.296 x .737	.140	A1066-ND	.49	.43	32562	A1066CT-ND	—	180.08	A1066TR-ND	5,000	144.06/M	2-32562-1
	22-16 Red	8	.416 x .830	.140	A1088-ND	.65	.57	32498	A1088CT-ND	—	918.73	A1088TR-ND	5,000	734.98/M	2-32498-1
	16-14 Blue	8	.416 x .830	.150	A99250-ND	.95	.84	33155	—	—	—	—	—	—	—
	16-14 Blue	6	.294 x .737	.170	A1076-ND	.33	.29	320861	—	—	—	—	—	—	—
	16-14 Blue	8	.294 x .737	.170	A1077-ND	.49	.43	320862	A1077CT-ND	127.59	231.98	A1077TR-ND	5,000	185.58/M	2-320862-1
	16-14 Blue	8	.416 x .830	.170	A27518-ND	.79	.69	33156	—	—	—	—	—	—	—
	16-14 Blue	10	.294 x .737	.170	A1092-ND	.54	.48	320863	—	—	—	—	—	—	—
	12-10 Yellow	6	.296 x 1.017	.250	A0900-ND	1.32	1.16	325150	—	—	—	—	—	—	—
	12-10 Yellow	6	.328 x 1.017	.230	A27432-ND	1.32	1.16	324587	—	—	—	—	—	—	—
	12-10 Yellow	8	.416 x 1.017	.230	A09039-ND	.66	.58	32510	A09039CT-ND	335.13	609.33	A09039TR-ND	2,500	487.46/M	2-32510-1
	12-10 Yellow	10	.416 x 1.017	.250	A0901-ND	.77	.68	324015	—	—	—	—	—	—	—

Tools

A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$49.68**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$90.72**
A9821-ND	PIDG and PLASTI-GRIP™ Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$154.62**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices.	**$41.10**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices.	**$39.03**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals.	**$91.65**

AMP PIDG Knife Disconnect and Butt Splices

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength **PIDG - Spare Wire Caps:** **Material:** Copper Tin Plated, Insulation: Nylon **PIDG - Butt Splice Step Down Adapter Inserts:** **Material:** • Adapter Body: Copper per ASTM B-152 • Plating: Zinc /DyeChromate

Fig. 1

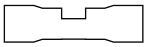

Fig. 2

For Stripped Wire:

For Unstripped Wire:

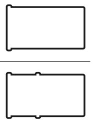

Fig. 3

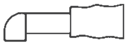

PIDG Butt Splices

Fig.	AWG Color	Dimension (Inch) Length	Insulation Diameter Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
1	26-22 Yellow	.890	.082	A0913-ND◆	1.43	1.26	2-323994-2	—	—	—	—	—	—	—
	22-16 Red‡	1.265	.125	A1069-ND◆	.86	.76	320559	A1069CT-ND◆	373.46	679.03	A1069TR-ND◆	2,500	543.22/M	2-320559-4
	16-14 Blue	1.265	.150	A1080-ND◆	.88	.78	320562	A1080CT-ND◆	450.13	818.43	A1080TR-ND◆	2,500	654.74/M	2-320562-3
	12-10 Yellow	1.656	.220	A1086-ND◆	1.44	1.27	320570	—	—	—	—	—	—	—
	22-26 Yellow†	.890	.082	A27450-ND◆	1.34	1.18	323994	—	—	—	—	—	—	—
	24-20 Natural	1.035	.100	A27451-ND◆	.68	.60	323975	—	—	—	—	—	—	—
Step Down Type (with adapter insert)														
1	16-14 to 22-18 Blue	1.265	.150/.115	A27452-ND◆§	1.57	1.38	327583	—	—	—	—	—	—	—
	12-10 to 16-14 Yellow	1.656	.220/.170	A27453-ND◆	2.10	1.85	327638	—	—	—	—	—	—	—
	12-10 to 22-18 Yellow	1.656	.220/.140	A27454-ND	4.79	4.21	327639	—	—	—	—	—	—	—
Radiation Resistant — RoHS Compliant														
1	22-16 Red Stripe	1.265	.125	A33733-ND	1.35	1.19	696427-1	—	—	—	—	—	—	—

◆ ***RoHS Compliant*** § Includes adapter insert † 26-22 splices are 26-24 range in accordance with MIL-T-7928 ‡ 22-16 splices are 22-18 range in accordance with MIL-T-7928

PIDG - Spare Wire Caps

Fig.	AWG	Insulation Diameter (Inch)	Cap Insulation Color	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Unstripped Wire							
2	—	.048 - .075	Transparent	A27478-ND	.38	.33	324484
	—	.080 - .115	Red	A27479-ND	.43	.38	324485
	—	.120 - .145	Blue	A27480-ND	.50	.44	324486
Stripped Wire							
2	22-18	.124	Red	A27481-ND	.44	.39	328307
	16-14	.149	Blue	A27482-ND	.55	.49	328308
	12-10	.210	Yellow	A27483-ND	.61	.54	328309

PIDG Knife Disconnect Splices

Fig.	AWG	Dimension (Inch) Length	Insulation Diameter (Inch)	Digi-Key Part No.	Price Each 10	100	AMP Part No.
3	22-16 Red	.878	.125	A27473-ND	1.08	.95	320555
	22-16 Red	.878	.140	A1068-ND	.55	.48	32446
	16-14 Blue	.878	.150	A27474-ND	1.08	.95	320566
	16-14 Blue	.878	.170	A1079-ND	.55	.48	32448
	12-10 Yellow	1.260	.250	A09046-ND	1.63	1.44	35762
	12-10 Yellow	1.234	.230	A99253-ND	1.89	1.66	320620

Tools and Kits

A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$49.68**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$90.72**
A9821-ND	PIDG and PLASTI-GRIP™ Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$154.62**
A27484-ND	Long Handle Tool for PIDG Spare Wire Caps (16-22 AWG)	**$445.50**
A27485-ND	Heavy Head Tool for PIDG Spare Wire Caps (10-12 AWG)	**$637.20**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$41.10**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$39.03**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**

AMP ELECTRO-TAP Connectors and Closed End Splices

ELECTRO-TAP Cable Connector/Splice

• **Housing Material:** Nylon • **Contact Material:** Brass • **Contact Plating:** Tin

Fig.	AWG	Insul. Dia. Inch	Dimension – Inch L	W	H	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	20-18	.160	.687	.484	.450	Red	A1050-ND	1.08	.85	53440-2
	14-18	.160	.687	.484	.450	Blue	A1051-ND	1.08	.85	53440-1

Fig. 1

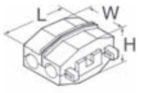

Fig. 2

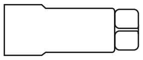

Fig. 3

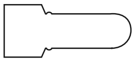

Closed End Splices

• For single and multiple wire applications • Nylon or vinyl or PVF² insulated • Temperature Ratings of 90°C, 105°C, 150°C • 300V, 600V or 1000V rated • Crescent crimp configuration • Covers wire ranges from 22 to 6 AWG (0.3 to 6.0 mm²); 509 to 42, 700 CMA • Copper or steel splice material • Plated or unplated • Solid or stranded copper wire • UL and CSA approved

Fig.	AWG	Insul. Color	Mat'l.	Open. Dia. Inch	Length Inch	Splice Mark*	Digi-Key Part No.	Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Vinyl BOMB-TAIL Splices																	
2	22-16	Blue	Copper	.173	.750	VS	A09052-ND	3.89	34.25	34306	—	—	—	—	—	—	—
	22-16	Trans.	Steel	.265	1.000	ECV	A27476-ND	2.24	19.72	328890	—	—	—	—	—	—	—
	22-16	Trans.	Steel	.265	.825	ECV	A09053-ND	1.90	16.69	330021	—	—	—	—	—	—	—
	22-14	Blue	Copper	.215	.800	VS	A27567-ND	3.84	33.82	34864	—	—	—	—	—	—	—
	22-14	Red	Copper	.156	.729	VS	A09054-ND	3.96	34.88	34304	—	—	—	—	—	—	—
	22-14	Purple	Copper	.187	.740	VS	A09055-ND	1.84	16.22	36964	A09055CT-ND	121.18	220.33	A09055TR-ND	2,500	132.20/M	2-36964-2
	22-14	Purple	Copper	.235	.775	VS	A27475-ND	1.95	17.18	2-328375-3	—	—	—	—	—	—	—
	22-14	Purple	Copper	.235	.900	ECV	A27568-ND	2.38	20.95	55843-1	—	—	—	—	—	—	—
	22-12	Trans.	Copper	.360	1.500	ECV	A09056-ND	2.24	19.72	53234-1	—	—	—	—	—	—	—
	22-12	Trans.	Copper	.360	1.125	ECV	A27571-ND	2.14	18.81	329251	—	—	—	—	—	—	—
	22-10	Yellow	Copper	.235	.975	VS	A09059-ND	4.06	35.74	34308	—	—	—	—	—	—	—
	22-10	Yellow	Copper	.300	1.010	VS	A09060-ND	9.23	81.22	34865	—	—	—	—	—	—	—
	22-10	Purple	Copper	.312	1.010	VS	A09057-ND	1.98	17.45	36965	A09057CT-ND	130.89	237.98	A09057TR-ND	1,500	142.79/M	1-36965-1
	18-8	Green	Copper	.500	1.575	ECV	A09061-ND	5.78	50.83	320788	—	—	—	—	—	—	—
Nylon Molded Splices																	
2	22-14	Trans.	Copper	.250	.680	ECN	A09062-ND	2.39	21.06	35115	A09062CT-ND	132.59	241.08	A09062TR-ND	2,500	192.86/M	1-35115-0
3	22-10	Trans.	Copper	.375	.775	ECN	A09063-ND	2.56	22.50	35653	A09063CT-ND	145.83	265.15	A09063TR-ND	1,500	212.12/M	2-35653-1
	22-10	Trans.	Copper	.375	.970	EC	A09064-ND	2.42	21.31	53915-1	A09064CT-ND	232.94	423.53	A09064TR-ND	1,500	254.12/M	53915-2
	22-10	Trans.	Copper	.375	.720	EC	A27477-ND	2.76	24.27	328730	—	—	—	—	—	—	—

* **VS** = 300V, 90°C **ECV** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C UL, 90°C CSA **ECN** = 300V, 105°C **EC** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C

AMP PLASTI-GRIP™ Terminals and Splices

Temperature Rating: 90°C maximum **Material:** • Insulation: Vinyl • Terminal Body: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727 (spring spade terminals are phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727) **Voltage:** 600V maximum (1000V Fixture or Sign).

Recognized under the component program of Underwriters Laboratories Incorporated File No. E13288.

Fig. 1

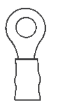

Fig. 2

Fig. 3

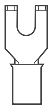

Fig. 4

Fig. 5

Fig. 6

Fig. 7

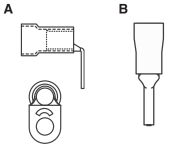

Fig. 8

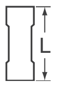

Fig. 9

Ring Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
22-16 AWG Red														
1	2	.218 x .684	.140	A0954-ND	.35	.31	34140	—	—	—	—	—	—	—
	4	.218 x .684	.125	A27302-ND	.35	.31	32944	—	—	—	—	—	—	—
	4	.218 x .684	.140	A0955-ND	.24	.22	34141	A0955CT-ND	—	269.03	A0955TR-ND	5,000	215.22/M	2-34141-1
	4	.281 x .809	.140	A28199-ND	.46	.41	34143	—	—	—	—	—	—	—
	6	.218 x .684	.125	A27303-ND	.35	.31	32945	A27303CT-ND	—	207.13	A27303TR-ND	5,000	165.70/M	2-32945-1
	6	.218 x .684	.140	A09016-ND§	.25	.22	34142	—	—	—	—	—	—	—
	6	.281 x .809	.125	A27304-ND	.35	.31	32947	A27304CT-ND	—	269.03	A27304TR-ND	5,000	215.22/M	2-32947-1
	6	.281 x .809	.140	A0956-ND◊	.35	.31	34144	A0956CT-ND	—	188.18	A0956TR-ND	5,000	150.54/M	2-34144-1
	6	.312 x .856	.125	A27305-ND	.35	.31	32950	—	—	—	—	—	—	—
	6	.312 x .856	.140	A27306-ND	.35	.31	34147	—	—	—	—	—	—	—
	8	.281 x .809	.125	A27308-ND	.35	.31	32948	A27308CT-ND	—	541.18	A27308TR-ND	5,000	432.94/M	2-32948-1
	8	.281 x .809	.140	A09017-ND§	.21	.18	34145	—	—	—	—	—	—	—
	8	.312 x .856	.125	A27307-ND	.35	.31	32951	A27307CT-ND	—	207.13	A27307TR-ND	5,000	165.70/M	2-32951-1
	8	.312 x .856	.140	A0957-ND◊	.17	.15	34148	A0957CT-ND	—	188.30	A0957TR-ND	5,000	150.64/M	2-34148-1
	10	.281 x .809	.125	A28192-ND	.35	.31	32949	A28192CT-ND	—	507.20	A28192TR-ND	5,000	405.76/M	2-32949-1
	10	.281 x .809	.140	A09018-ND§	.35	.31	34146	—	—	—	—	—	—	—
	10	.312 x .856	.125	A09019-ND	.35	.31	32952	A09019CT-ND	—	242.13	A09019TR-ND	5,000	193.70/M	2-32952-1
	10	.312 x .856	.140	A0958-ND◊	.32	.28	34149	A0958CT-ND	—	188.18	A0958TR-ND	5,000	150.54/M	2-34149-1
	1/4	.469 x 1.090	.125	A27309-ND	.46	.41	32953	—	—	—	—	—	—	—
	1/4	.469 x 1.090	.140	A0959-ND	.29	.25	34150	A0959CT-ND	—	227.90	A0959TR-ND	5,000	182.32/M	2-34150-1
	5/16	.469 x 1.090	.140	A0960-ND	.41	.36	34151	A0960CT-ND	—	309.50	A0960TR-ND	5,000	247.60/M	2-34151-1
	3/8	.531 x 1.230	.140	A0961-ND	.42	.37	34152	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .715	.193	A0962-ND	.46	.41	34157	—	—	—	—	—	—	—
	6	.250 x .715	.193	A09020-ND§	.30	.26	34158	—	—	—	—	—	—	—
	6	.343 x .871	.193	A0963-ND◊	.35	.31	34159	A0963CT-ND	—	295.90	A0963TR-ND	5,000	236.72/M	2-34159-1
	8	.312 x .825	.193	A27311-ND	.35	.31	328527	—	—	—	—	—	—	—
	8	.343 x .871	.145	A27310-ND	.35	.31	32959	—	—	—	—	—	—	—
	8	.343 x .871	.193	A0964-ND	.17	.15	34160	A0964CT-ND	—	242.13	A0964TR-ND	5,000	193.70/M	2-34160-1
	10	.343 x .871	.145	A09021-ND	.35	.31	32960	A09021CT-ND	—	269.03	A09021TR-ND	5,000	215.22/M	2-32960-1
	10	.343 x .871	.193	A0965-ND	.23	.20	34161	A0965CT-ND	—	188.18	A0965TR-ND	5,000	150.54/M	2-34161-1
	1/4	.469 x 1.090	.145	A27312-ND	.61	.54	32961	—	—	—	—	—	—	—
	1/4	.469 x 1.090	.193	A0966-ND	.24	.21	34162	—	—	—	—	—	—	—
	5/16	.469 x 1.090	.193	A0967-ND	.41	.36	34163	—	—	—	—	—	—	—
	3/8	.531 x 1.248	.193	A0968-ND	.42	.37	34164	—	—	—	—	—	—	—
16-14HD AWG Yellow/Black														
1	10	.343 x 1.046	.250	A28193-ND	.61	.54	321518	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.250	A32017-ND	.64	.57	35349	—	—	—	—	—	—	—
	1/4	.531 x 1.296	.200	A27555-ND	.64	.56	34824	—	—	—	—	—	—	—
12-10 AWG Black														
1	1/4	.500 x 1.247	.300	A32018-ND	.54	.48	35492	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	6	.281 x .953	.250	A27313-ND	.44	.39	34852	—	—	—	—	—	—	—
	6	.375 x 1.098	.250	A28194-ND	.44	.39	34168	A28194CT-ND	199.11	362.03	A28194TR-ND	2,500	289.62/M	2-34168-1
	8	.375 x 1.098	.250	A0969-ND	.31	.27	34853	A0969CT-ND	139.38	253.43	A0969TR-ND	2,500	202.74/M	2-34853-1
	10	.375 x 1.098	.250	A0970-ND◊	.36	.32	34854	A0970CT-ND	121.99	221.80	A0970TR-ND	2,500	177.44/M	2-34854-1
	1/4	.400 x 1.373	.300	A28195-ND	.46	.40	55678-1	A28195CT-ND	330.69	601.25	A28195TR-ND	1,500	481.00/M	55678-2
	1/4	.531 x 1.327	.250	A0971-ND	.45	.40	34855	A0971CT-ND	159.64	290.25	A0971TR-ND	2,500	232.20/M	2-34855-1
	5/16	.531 x 1.327	.250	A0972-ND	.51	.45	34856	—	—	—	—	—	—	—
	3/8	.593 x 1.421	.250	A0973-ND	.50	.44	34173	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A09023-ND§	.75	.66	34837	—	—	—	—	—	—	—
8 AWG Red														
1	8	.478 x 1.586	.360	A27530-ND	.83	.73	52041	—	—	—	—	—	—	—
	10	.431 x 1.556	.360	A27318-ND	.74	.65	52263	—	—	—	A27318TR-ND	500	247.47	52263-2
	10	.431 x 1.576	.330	A27317-ND	.74	.65	52263-1	—	—	—	—	—	—	—
	1/4	.431 x 1.561	.360	A28196-ND	1.18	1.04	55621-1	—	—	—	—	—	—	—
	1/4	.478 x 1.586	.360	A27320-ND	.83	.73	52041-1	—	—	—	—	—	—	—
	1/4	.478 x 1.600	.330	A27319-ND	1.05	.93	52041-3	—	—	—	A27319TR-ND	500	697.00	52041-9
	5/16	.587 x 1.696	.360	A27321-ND	1.27	1.12	52291	—	—	—	—	—	—	—
	3/8	.587 x 1.696	.360	A27531-ND	1.21	1.07	52291-1	—	—	—	—	—	—	—
	1/2	.875 x 1.860	.330	A27532-ND	2.73	2.40	52262-1	—	—	—	—	—	—	—
6 AWG Blue														
1	8	.500 x 1.869	.360	A27322-ND	2.13	1.87	52042-2	—	—	—	—	—	—	—
	10	.468 x 1.719	.436	A27323-ND	.82	.73	52265	—	—	—	—	—	—	—
	10	.500 x 1.844	.436	A27533-ND	2.36	2.08	52042-4	—	—	—	—	—	—	—
	1/4	.398 x 1.846	.450	A28197-ND	1.42	1.25	55679-1	—	—	—	—	—	—	—
	1/4	.500 x 1.844	.436	A27325-ND	1.26	1.11	52042-1	—	—	—	—	—	—	—
	1/4	.500 x 1.869	.360	A27324-ND	.97	.85	52042-3	—	—	—	A27324TR-ND	500	754.23	52042-9
	5/16	.625 x 1.906	.450	A27326-ND	1.51	1.33	52264	—	—	—	—	—	—	—
	3/8	.625 x 1.906	.450	A27534-ND	1.72	1.51	52264-1	—	—	—	—	—	—	—
	1/2	.815 x 1.851	.436	A27535-ND	3.21	2.82	52350	—	—	—	—	—	—	—
4 AWG Yellow														
1	10	.546 x 1.948	.450	A27327-ND	1.74	1.53	52043-2	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.450	A27328-ND	2.48	2.18	52043-3	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.515	A27329-ND	1.90	1.67	52043-1	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.450	A27330-ND	2.81	2.48	52266-3	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.515	A27331-ND	1.46	1.28	52266	—	—	—	—	—	—	—
	3/8	.679 x 2.014	.450	A27536-ND	2.74	2.41	52266-4	—	—	—	—	—	—	—
2 AWG Red														
1	1/4	.675 x 2.071	.560	A27332-ND	2.55	2.24	52267-1	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.560	A27537-ND	3.67	3.23	52044-4	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.632	A27538-ND	2.44	2.15	52044-1	—	—	—	—	—	—	—
	3/8	.711 x 2.089	.632	A27539-ND	3.71	3.26	52044-2	—	—	—	—	—	—	—
1/0 AWG Blue														
1	5/16	.807 x 2.447	.684	A27333-ND	3.24	2.85	52045-1	—	—	—	—	—	—	—
	3/8	.807 x 2.447	.665	A27540-ND	3.24	2.85	52045-5	—	—	—	—	—	—	—

§ Short ◊ Long

(Continued)

AMP PLASTI-GRIP™ Terminals and Splices *(Cont.)*

Spade Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
22-16 AWG Red													
2	6	.250 x .858	.140	A27425-ND	3.47	30.53	327043	A27425CT-ND	207.13	A27425TR-ND	5,000	165.70/M	2-327043-1
	6	.297 x .765	.125	A27572-ND	4.35	38.27	327735	A27572CT-ND	414.25	A27572TR-ND	5,000	331.40/M	2-327735-1
	6	.297 x .765	.140	A0974-ND	3.47	30.53	320665	—	—	—	—	—	—
	8	.375 x .920	.125	A27573-ND	4.76	41.91	32981	—	—	—	—	—	—
	8	.375 x .920	.140	A0975-ND	3.47	30.53	34155	—	—	—	—	—	—
	10	.375 x .920	.140	A0976-ND	3.47	30.53	34156	—	—	—	—	—	—
16-14 AWG Blue													
2	6	.297 x .765	.145	A0977-ND	3.47	30.53	322994	—	—	—	—	—	—
	8	.385 x .920	.193	A0978-ND	3.47	30.53	34166	—	—	—	—	—	—
	10	.385 x .920	.193	A0979-ND	3.47	30.53	34167	—	—	—	—	—	—
12-10 AWG Yellow													
2	8	.406 x 1.095	.250	A0980-ND	6.58	57.89	35152	—	—	—	—	—	—
	10	.406 x 1.095	.250	A0981-ND	4.33	38.07	34176	—	—	—	—	—	—

Flanged Spade

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
22-16 AWG Red														
3	6	.328 x .749	.140	A28249-ND	.77	.68	324560	—	—	—	—	—	—	—
	6	.296 x .749	.140	A0982-ND	.39	.34	322249	A0982CT-ND	—	263.90	A0982TR-ND	5,000	211.12/M	1-322249-1
	8	.416 x .842	.140	A0983-ND	.42	.37	324169	—	—	—	—	—	—	—
	8	.296 x .749	.140	A27433-ND	.51	.45	1-322249-0	A27433CT-ND	—	703.28	A27433TR-ND	5,000	562.62/M	1-322249-9
	10	.296 x .749	.140	A0984-ND	.77	.68	328516	—	—	—	—	—	—	—
16-14 AWG Blue														
3	6	.294 x .749	.193	A0985-ND	.39	.34	324165	A0985CT-ND	—	293.00	A0985TR-ND	5,000	234.40/M	2-324165-1
	8	.294 x .749	.193	A09024-ND	.69	.61	53874-1	A09024CT-ND	—	467.95	A09024TR-ND	5,000	374.36/M	53874-2
12-10 AWG Yellow														
3	6	.296 x 1.017	.250	A0986-ND	.81	.71	324581	A0986CT-ND	484.87	881.58	A0986TR-ND	2,500	705.26/M	1-324581-1
	8	.416 x 1.017	.250	A0987-ND	.45	.39	324172	—	—	—	—	—	—	—
	10	.416 x 1.017	.250	A09025-ND	.41	.36	52856	—	—	—	—	—	—	—

Spring Spade Tongue

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
Short														
22-16 AWG Red														
4	4	.203 x .811	.140	A0988-ND	.42	.37	52947	—	—	—	—	—	—	—
	6	.234 x .811	.140	A27440-ND	.42	.37	53240-1	A27440CT-ND	—	217.45	A27440TR-ND	5,000	130.47/M	53240-2
	6	.250 x .811	.140	A0989-ND	.38	.33	52949	A0989CT-ND	—	219.55	A0989TR-ND	5,000	175.64/M	52949-1
	8	.244 x .872	.140	A27441-ND	.55	.48	53241-1	A27441CT-ND	—	219.68	A27441TR-ND	5,000	175.74/M	53241-2
	8	.375 x .872	.140	A0990-ND	.50	.44	52950	A0990CT-ND	—	690.30	A0990TR-ND	5,000	414.18/M	52950-1
	10	.294 x .920	.140	A27442-ND	.44	.39	53242-1	—	—	—	—	—	—	—
	10	.406 x .920	.140	A0991-ND	.61	.53	52951	A0991CT-ND	—	627.53	A0991TR-ND	5,000	376.52/M	52951-1
16-14 AWG Blue														
4	6	.250 x .811	.193	A0992-ND	.38	.33	52955	—	—	—	—	—	—	—
	6	.250 x .860	.250	A27575-ND	.55	.48	52955-2	—	—	—	—	—	—	—
	8	.244 x .872	.193	A27443-ND	.31	.27	53244-1	—	—	—	—	—	—	—
	8	.375 x .872	.193	A0993-ND	.48	.43	52956	A0993CT-ND	—	345.15	A0993TR-ND	5,000	276.12/M	52956-1
	10	.294 x .920	.193	A27576-ND	.55	.48	53245-1	—	—	—	—	—	—	—
	10	.406 x .920	.193	A0994-ND	.42	.37	52957	A0994CT-ND	—	313.80	A0994TR-ND	5,000	188.28/M	52957-1
12-10 AWG Yellow														
4	6	.250 x .959	.200	A27577-ND	.68	.60	52961	A27577CT-ND	460.05	836.45	A27577TR-ND	2,500	501.88/M	52961-1
	6	.250 x .959	.250	A27444-ND	.67	.59	53246-1	—	—	—	—	—	—	—
	8	.312 x 1.052	.250	A27541-ND	.70	.62	53247-1	—	—	—	—	—	—	—
	8	.375 x 1.052	.200	A27578-ND	.71	.63	52962	—	—	—	—	—	—	—
	10	.406 x 1.100	.200	A27445-ND	.66	.58	52963	—	—	—	—	—	—	—
Long														
22-16 AWG Red														
4	6	.250 x .945	.140	A09027-ND	.70	.62	52453	—	—	—	—	—	—	—
	8	.281 x .991	.140	A09028-ND	.69	.61	52454	—	—	—	—	—	—	—
	10	.343 x 1.017	.140	A09029-ND	.55	.48	52455	—	—	—	—	—	—	—
16-14 AWG Blue														
4	6	.250 x .945	.193	A09030-ND	.67	.59	52463	—	—	—	—	—	—	—
	8	.281 x .991	.170	A09031-ND	.70	.62	52464	A09031CT-ND	—	690.30	A09031TR-ND	5,000	414.18/M	52464-1
	10	.343 x 1.017	.170	A09032-ND	.84	.74	52465	—	—	—	—	—	—	—

Butt Splices

Fig.	Dim. L Max. Inch	Ins. Dia. Inch	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
26-22 AWG Yellow (26-24 per MIL-T-7928)						
5	.620	.080	A27461-ND	3.11	27.38	321026
22-16 AWG Red (22-18 per MIL-T-7928)						
5	1.065	.120	A09033-ND	4.44	39.05	34067
	1.065	.170	A27462-ND	4.88	42.95	34243
	1.076	.140	A0997-ND	2.29	20.17	34070
	1.065	.083 x .171	A27463-ND	3.65	32.08	34203
16-14 AWG Blue						
5	1.065	.140	A27464-ND	5.30	46.66	34068
	1.065	.170	A0998-ND	2.55	22.43	34071
	1.065	.215	A27465-ND	3.65	32.08	35244
	1.065	.135 x .245	A09034-ND	4.34	38.24	34204
16-14 AWG Natural with Blue Stripes						
5	1.065	.170	A27542-ND	3.65	32.08	55785-1
12-10 AWG Yellow						
5	1.160	.200	A27466-ND	7.23	63.62	34069
	1.160	.230	A0999-ND	4.64	40.81	34072
	1.160	.250	A27467-ND	6.82	59.97	34945

Multiple Stud Terminals

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel 5,000	AMP Part No.
6	22-16 Red	6-8-10	.125	A27556CT-ND	54.16	A27556TR-ND	351.68/M	54774-2

Ring Tongue 90° Bend Terminal

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
7A	8 Red	10	.360	A27563-ND	2.42	2.13	55654-1
	6 Blue	1/4	.436	A27564-ND	2.51	2.21	54754-1
	4 Yellow	1/4	.436	A33736-ND	4.29	3.78	54748-1

Insulated Round Wire Pin

Fig.	AWG Color	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
7B	12-10 Yellow	.251	A99255-ND	.43	.38	165085
	22-16 Red	.146	A99256-ND	.36	.32	165143
	22-16 Red	.146	A99257-ND	.34	.30	165167

Parallel Splices

Fig.	AWG Color	Dim. L Max. Inch	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8	22-16 Red	.760	.120	A27468-ND	.74	.66	34131
	22-16 Red	.760	.140	A27574-ND	.58	.51	34132
	16-14 Blue	.760	.140	A27469-ND	.69	.61	34133
	16-14 Blue	.760	.170	A27470-ND	.64	.56	34134
	12-10 Yellow	.843	.200	A27471-ND	1.07	.95	34135

Ring Flag Tongue

Fig.	AWG Stripe Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
9	16-14HD Black	14	.230	A27558-ND	1.66	1.46	322313
	12-10 Yellow	14	.230	A27559-ND	3.33	2.93	322316

A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$49.68**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$90.72**
A9821-ND	PIDG and PLASTI-GRIP™ Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$154.62**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminal and Splices	**$41.10**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$39.03**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**
A27991-ND	Hand Tool CERTI-CRIMP and PLASTI-GRIP™, 20-26 AWG	**$1875.00**

Tyco Electronics
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AMP FASTONS™

Fig. 1

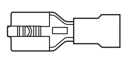

Fig. 2

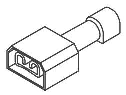

Fig. 3

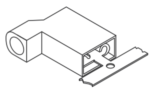

PIDG FASTON: Receptacle material is brass unless otherwise noted. **Ultra-Fast Plus:** Fully Insulated FASTON Receptacles offer all the advantages of the standard Ultra-Fast product plus an insulation crimp. Ultra-Fast FASTON Receptacles are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle and wire barrel portions of the housing are molded from type 6/6 nylon material with a 125°C UL temperature rating. The insulation barrel is molded from a premium grade nylon. Material: • Housing: Nylon Type 6/6 • Terminal: Tin-Plated, Copper alloy • Base : Brass

PIDG FASTONS

Fig.	AWG	Insulation Color	Fits Tab Size (Inch)	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			500	1,000		Qty.	Pricing	
.110" Low Insertion															
1	22-18	Red	.110 x .016	.135	A27944-ND	.36	.32	640921-1	—	—	—	—	—	—	—
	22-18	Red	.110 x .020	.135	A09050-ND	.36	.32	640923-1	A09050CT-ND	—	269.65	A09050TR-ND	5,000	215.72/M	640923-2
	22-18	Red	.110 x .032	.135	A09051-ND	.36	.32	640925-1	A09051CT-ND	—	269.65	A09051TR-ND	5,000	215.72/M	640925-2
	16-14	Blue	.110 x .020	.170	A0912-ND	.36	.32	640929-1	A0912CT-ND	—	284.55	A0912TR-ND	4,000	227.64/M	640929-2
	16-14	Blue	.110 x .032	.170	A27967-ND	.36	.32	640931-1	A27967CT-ND	—	286.73	A27967TR-ND	4,000	229.38/M	640931-2
	16-14	Blue	.110 x .016	.170	A27964-ND	.36	.32	640927-1	—	—	—	—	—	—	—
.110" Standard															
1	22-18	Trans.	.110 x .016	.100	A27942-ND§	.40	.36	61048-1	A27942CT-ND§	—	419.38	A27942TR-ND§	5,000	335.50/M	61048-2
	22-18	Trans.	.110 x .020	.100	A09049-ND§	.40	.36	61060-1	A09049CT-ND§	—	289.55	A09049TR-ND§	5,000	231.64/M	61060-2
	22-18	Trans.	.110 x .032	.100	A0911-ND§	.40	.36	60894-1	A0911CT-ND§	—	289.55	A0911TR-ND§	5,000	231.64/M	60894-2
.187" Series															
1	26-24	Yellow	.187 x .020	.082	A27940-ND§	.31	.28	641321-1	A27940CT-ND§	—	355.93	A27940TR-ND§	5,000	213.56/M	641321-2
	22-18	Red	.187 x .020	.135	A0909-ND	.31	.28	640917-1	A0909CT-ND	—	252.90	A0909TR-ND	4,000	202.32/M	640917-2
	16-14	Blue	.187 x .020	.170	A0910-ND	.36	.32	640919-1	—	—	—	—	—	—	—
.205" Series															
1	22-18	Red	.205 x .020	.135	A09047-ND	.36	.32	640909-1	—	—	—	—	—	—	—
	22-18	Red/Black	.205 x .020	.135	A27955-ND	.79	.69	640174-1	—	—	—	—	—	—	—
	22-18	Red	.205 x .032	.135	A0907-ND	.36	.32	640911-1	—	—	—	—	—	—	—
	16-14	Blue	.205 x .020	.170	A09048-ND	.36	.32	640913-1	A09048CT-ND	—	355.93	A09048TR-ND	4,000	284.74/M	640913-2
	16-14	Blue	.205 x .032	.170	A0908-ND	.36	.32	640915-1	—	—	—	—	—	—	—
.250" Series															
1	22-18	Red	.250 x .032	.140	A0903-ND	.33	.29	640903-1	A0903CT-ND	—	250.90	A0903TR-ND	4,000	200.72/M	640903-2
	22-18	Red	.250 x .032	.135	A27957-ND‡	.44	.39	55675-1	—	—	—	—	—	—	—
	16-14	Blue	.250 x .032	.170	A0904-ND	.36	.32	640905-1	A0904CT-ND	151.03	274.60	A0904TR-ND	3,500	219.68/M	640905-2
	14-12	Green	.250 x .032	.250	A0905-ND§	.67	.59	42844-1	A0905CT-ND§	275.28	500.50	A0905TR-ND§	2,500	400.40/M	42844-3
	14-12	Green	.250 x .032	.250	A27977-ND§◊	.70	.62	42844-2	—	—	—	—	—	—	—
	12-10	Yellow	.250 x .032	.250	A0906-ND	.64	.56	640907-1	A0906CT-ND	263.12	478.40	A0906TR-ND	2,500	382.72/M	640907-2
	12-10	Yellow	.250 x .032	.250	A27978-ND	1.08	.95	61198-2	—	—	—	—	—	—	—

§ Not UL or CSA approved or listed ‡ Unplated receptacle body ◊ Receptacle material is phosphor bronze

Ultra-Fast FASTON Receptacles

Fig.	AWG Color	Insulation Diameter	Mating Tab	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip and Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
Ultra-Fast Plus Fully Insulated														
.110" Series														
2	22-18 Red	.060-.120	.020	—	—	—	—	A27844CT-ND	91.03	156.35	A27844TR-ND	3,000	138.98/M	2-520932-2
.187" Series														
2	22-18 Red	.060-.135	.020	A27846-ND	.41	.37	2-520409-2	A27846CT-ND	97.36	177.03	A27846TR-ND	2,700	141.62/M	2-520401-2
	22-18 Red	.060-.135	.032	A27848-ND	.41	.37	2-520411-2	A27848CT-ND	97.36	177.03	A27848TR-ND	2,700	141.62/M	2-520403-2
	16-14 Blue	.090-.160	.020	A27850-ND	.36	.32	3-520410-2	A27850CT-ND	—	177.03	A27850TR-ND	2,200	141.62/M	3-520402-2
	16-14 Blue	.090-.160	.032	A27852-ND	.41	.37	3-520412-2	A27852CT-ND	—	177.03	A27852TR-ND	2,200	141.62/M	3-520404-2
.250" Series														
2	22-18 Red	.060-.135	.032	A27854-ND	.45	.40	2-520407-2	A27854CT-ND	106.91	194.38	A27854TR-ND	2,200	155.50/M	2-520405-2
	16-14 Blue	.090-.160	.032	A27856-ND	.45	.40	3-520408-2	A27856CT-ND	106.91	194.38	A27856TR-ND	2,200	155.50/M	3-520406-2
Ultra-Fast Fully Insulated														
.110" Series														
2	26-22 Violet	.100	.020	A27793-ND	.30	.26	7-520366-2	A27793CT-ND	—	165.55	A27793TR-ND	3,000	132.44/M	7-520365-2
	22-18 Red	.120	.016	A27795-ND	.30	.26	2-520081-2	A27795CT-ND	—	165.55	A27795TR-ND	3,000	132.44/M	2-520080-2
	22-18 Red	.120	.020	A27797-ND	.30	.26	2-520084-2	A27797CT-ND	—	165.55	A27797TR-ND	3,000	132.44/M	2-520083-2
	22-18 Red	.120	.032	A27799-ND	.33	.30	2-520273-2	A27799CT-ND	—	165.55	A27799TR-ND	3,000	132.44/M	2-520272-2
	22-18 Red	.230	.020	—	—	—	—	A27800CT-ND	97.24	167.02	A27800TR-ND	2,000	148.46/M	2-520306-2
	22-18 Red	.230	.032	—	—	—	—	A27801CT-ND	97.24	167.02	A27801TR-ND	2,000	148.46/M	2-520310-2
	16-14 Blue	.260	.020	—	—	—	—	A27802CT-ND	97.24	167.02	A27802TR-ND	2,000	148.46/M	3-520370-2
.187" Series														
2	22-18 Red	.135	.020	A27804-ND	.28	.25	2-520182-2	A27804CT-ND	84.21	153.10	A27804TR-ND	2,700	122.49/M	2-520181-2
	22-18 Red	.135	.032	A27806-ND	.31	.28	2-520194-2	A27806CT-ND	84.21	153.10	A27806TR-ND	2,700	122.49/M	2-520193-2
	22-18 Red	.230	.020	—	—	—	—	A27807CT-ND	89.92	154.44	A27807TR-ND	2,000	137.28/M	2-520261-2
	22-18 Red	.230	.032	A27809-ND	.35	.31	2-520275-2	A27809CT-ND	—	189.70	A27809TR-ND	2,000	151.76/M	2-520274-2
	16-14 Blue	.160	.020	A27811-ND	.28	.25	3-350816-2	A27811CT-ND	84.21	153.10	A27811TR-ND	2,200	122.49/M	3-350815-2
	16-14 Blue	.160	.032	A27813-ND	.31	.28	3-520125-2	A27813CT-ND	84.21	153.10	A27813TR-ND	2,200	122.49/M	3-520124-2
	16-14 Blue	.260	.020	A27815-ND	.35	.31	3-520151-2	A27815CT-ND	—	171.60	A27815TR-ND	2,000	137.28/M	3-520150-2
.250" Series														
2	22-18 Red	.135	.032	A27817-ND	.30	.27	2-520184-2	A27817CT-ND	92.44	168.08	A27817TR-ND	2,200	134.46/M	2-520183-2
	22-18 Red	.135	.032	A27819-ND†	.47	.42	2-520184-4	A27819CT-ND†	—	221.05	A27819TR-ND†	2,200	176.85/M	2-520183-4
	22-18 Red	.230	.032	A27821-ND	.35	.31	2-520264-2	A27821CT-ND	—	188.38	A27821TR-ND	2,000	150.70/M	2-520263-2
	22-18 Red	.230	.032	—	—	—	—	A27822CT-ND†	129.77	222.89	A27822TR-ND†	2,000	198.12/M	2-520263-4
	16-14 Blue	.160	.032	A27824-ND	.30	.27	3-350820-2	A27824CT-ND	92.44	168.08	A27824TR-ND	2,200	134.46/M	3-350819-2
	16-14 Blue	.160	.032	A27826-ND†	.47	.42	3-520117-2	A27826CT-ND†	—	221.05	A27826TR-ND†	2,200	176.85/M	3-520116-2
	16-14 Blue	.260	.032	A27828-ND	.35	.31	3-520141-2	A27828CT-ND	—	188.38	A27828TR-ND	2,000	150.70/M	3-520140-2
	16-14 Blue	.260	.032	—	—	—	—	A27829CT-ND†	129.77	222.89	A27829TR-ND†	2,000	198.12/M	3-520140-4
	12-10 Yellow	.320	.032	A27831-ND	.42	.37	4-520448-2	A27831CT-ND	119.27	216.85	A27831TR-ND	1,500	173.48/M	4-520447-2
Ultra-Fast Fully Insulated FASTON Tabs														
.250" Series														
—	22-18 Red	.135	.032	A27906-ND	.52	.46	2-520103-2	—	—	—	A27906TR-ND	1,400	246.96/M	2-520102-2
	16-14 Blue	.160	.032	A27907-ND	.52	.46	3-520107-2	—	—	—	A27907TR-ND	1,400	246.96/M	3-520106-2
Ultra-Fast Fully Insulated FASTON Flag Receptacles														
.187" Series														
3	22-18 Red	.165	.020	A27833-ND	.51	.45	2-520335-2	A27833CT-ND	—	269.28	A27833TR-ND	2,200	215.42/M	2-520334-2
	22-18 Red	.165	.032	A27835-ND	.51	.45	2-520337-2	A27835CT-ND	—	269.28	A27835TR-ND	2,200	215.42/M	2-520336-2
	16-14 Blue	.185	.020	A27837-ND	.51	.45	3-520339-2	—	—	—	—	—	—	—
	16-14 Blue	.185	.032	—	—	—	—	A27838CT-ND	141.10	242.35	A27838TR-ND	2,200	215.42/M	3-520340-2
.250" Series														
3	22-18 Red	.165	.032	A27840-ND	.49	.43	2-520129-2	A27840CT-ND	—	289.93	A27840TR-ND	2,200	231.95/M	2-520128-2
	22-18 Red	.230	.032	—	—	—	—	A27841CT-ND	154.06	246.50	A27841TR-ND	1,700	215.69/M	2-520856-2
	16-14 Blue	.185	.032	A27843-ND	.49	.43	3-520133-2	A27843CT-ND	159.46	—	A27843TR-ND	2,100	231.94/M	3-520132-2

† Terminal base material is phosphor bronze

A28005-ND	Hand Tool for FASTONS (without dies)	**$209.84**
A27992-ND	TETRA-CRIMP Hand Tool for PIDG FASTON Receptacles	**$358.80**
A28009-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (22-18 AWG), use with A28005-ND	**$452.34**
A28010-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (16-14 AWG), use with A28005-ND	**$452.34**
A28007-ND	Die Set Ultra-FASTONS for 22-18 AWG, use with A28005-ND	**$203.73**
A28008-ND	Die Set Ultra-FASTONS for 16-14 AWG, use with A28005-ND	**$203.73**
A27997-ND	Hand Tool CERTI-CRIMP for PLASTI-GRIP and PIDG FASTONS 24-26	**$1004.40**

AMP Budget and Economy FASTON Terminals

Budget Line

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
							100	500	1,000		Qty.	Pricing	
.250” Series - Insulation Support													
1	20-14	.012	Brass	.250 x .032	.085 - .135	A29936CT-ND	11.95	54.75	99.55	A29936TR-ND	12,000	53.76/M	63648-1
	18-22	.016	Brass	.250 x .032	.090 - .130	A27608CT-ND	7.73	32.23	51.56	A27608TR-ND	10,000	34.81/M	42510-1
	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	A27609CT-ND	8.47	35.30	56.48	A27609TR-ND	10,000	38.13/M	42510-2
	14-18	.016	Brass	.250 x .032	.120 - .170	A27610CT-ND	7.62	31.74	50.78	A27610TR-ND	10,000	34.28/M	42400-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120 - .170	A27611CT-ND	7.95	33.14	53.02	A27611TR-ND	10,000	35.79/M	42400-2
Flag													
2	12-18	.016	Brass	.250 x .032	.110 - .210	A27612CT-ND	10.68	44.50	71.20	A27612TR-ND	4,000	53.40/M	42511-1
	12-18	.016	Tin Plated Brass	.250 x .032	.110 - .210	A27613CT-ND	11.05	46.04	73.66	A27613TR-ND	4,000	55.25/M	42511-2
3	18-22	.016	Brass	.250 x .032	.060 - 1.00	A27618CT-ND†	9.83	40.96	65.54	A27618TR-ND†	11,000	49.16/M	62718-1
	18-22	.016	Tin Plated Brass	.250 x .032	.060 - 1.00	A27619CT-ND†	11.51	47.95	76.72	A27619TR-ND†	11,000	57.54/M	62718-2
	14-18	.016	Brass	.250 x .032	.110 - .160	A27614CT-ND▲	8.80	36.68	58.68	A27614TR-ND▲	11,000	44.01/M	63009-1
	14-18	.016	Tin Plated Brass	.250 x .032	.110 - .160	A27615CT-ND▲	10.02	41.76	66.82	A27615TR-ND▲	10,000	50.12/M	63009-2
	14-18	.016	Brass	.250 x .032	.110 - .160	A27616CT-ND†	9.26	38.60	61.76	A27616TR-ND†	11,000	46.32/M	63010-1
	14-18	.016	Tin Plated Brass	.250 x .032	.110 - .160	A27617CT-ND†	11.42	47.56	76.10	—	—	—	63010-2
Low Insertion Force													
4	22-18	.016	Brass/Tin	.250 x .032	.090 - .130	A29940CT-ND	9.66	44.29	80.53	A29940TR-ND	10,000	43.49/M	63609-2
	18-14	.016	Steel/Nickel	.250 x .032	.120 - .170	A29941CT-ND	10.40	47.67	86.68	A29941TR-ND	10,000	46.81/M	63674-1
	14-18	.016	Brass	.250 x .032	.120 - .170	A27780CT-ND	7.47	31.11	49.78	A27780TR-ND	10,000	33.61/M	63306-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120 - .170	A27781CT-ND	8.32	34.68	55.48	A27781TR-ND	10,000	37.45/M	63306-2
	14-10	.018	Tin Plated Brass	.250 x .032	.225 - .275	A29942CT-ND	12.48	57.20	104.00	A29942TR-ND	6,000	62.40/M	63539-1
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	A27783CT-ND	12.45	51.88	83.00	A27783TR-ND	9,000	62.25/M	63365-2
.187” Series - Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27715CT-ND	5.13	21.38	34.20	A27715TR-ND	20,000	23.09/M	42617-1
	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	A27716CT-ND	5.49	22.86	36.58	A27716TR-ND	20,000	24.70/M	42617-2
	16-20	.012	Brass	.187 x .032	.090 - .130	A27717CT-ND	9.75	40.63	65.00	A27717TR-ND	20,000	43.88/M	61919-1
Flag													
2	16-20	.012	Brass	.187 x .020	.110 - .170	A27718CT-ND	7.73	32.20	51.52	A27718TR-ND	6,000	38.64/M	42618-1
	16-20	.012	Tin Plated Brass	.187 x .020	.110 - .170	A27719CT-ND	8.53	35.54	56.86	A27719TR-ND	6,000	42.65/M	42618-2
Low Insertion Force													
4	16-20	.012	Brass	.187 x .020	.090 - .130	A27786CT-ND	5.43	22.63	36.20	A27786TR-ND	20,000	24.44/M	63475-1
	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	A27787CT-ND	5.99	24.96	39.94	A27787TR-ND	20,000	26.96/M	63475-2
	16-20	.012	Brass	.187 x .032	.090 - .130	A27788CT-ND	6.68	27.85	44.56	A27788TR-ND	20,000	30.08/M	63477-1
	16-20	.012	Tin Plated Brass	.187 x .032	.090 - .130	A27789CT-ND	7.12	29.66	47.46	A27789TR-ND	20,000	32.04/M	63477-2

† Right handed flag ▲ Left handed flag

Fig. 1

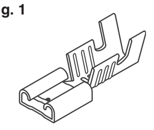

Fig. 2

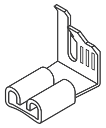

Fig. 3

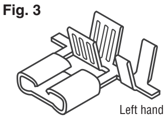

Left handed flag shown

Fig. 4

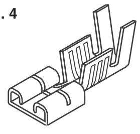

Economy Line

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
							100	500	1,000		Qty.	Pricing	
.250” Series													
Insulation Support													
1	22-26	.016	Brass	.250 x .032	.040 - .060	A27620CT-NDΔ	10.60	44.16	70.66	A27620TR-NDΔ	12,000	47.70/M	61202-1
	18-22	.016	Brass	.250 x .032	.090 - .130	A27621CT-ND	6.65	27.69	44.30	A27621TR-ND	12,000	29.91/M	42743-1
	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	A27622CT-ND	7.71	32.11	51.38	A27622TR-ND	12,000	34.69/M	42743-2
	14-18	.016	Brass	.250 x .032	.120 - .170	A27623CT-ND	6.62	27.56	44.10	A27623TR-ND	12,000	29.77/M	42660-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120 - .170	A27624CT-ND	7.43	30.96	49.54	A27624TR-ND	12,000	33.44/M	42660-2
	14-18	.016	Brass	.250 x .032	.150 - .210	A27625CT-ND	7.02	29.25	46.80	A27625TR-ND	10,000	31.59/M	42692-1
	14-18	.016	Tin Plated Brass	.250 x .032	.150 - .210	A27626CT-ND	8.02	33.40	53.44	A27626TR-ND	10,000	36.08/M	42692-2
2	18-22	.015	Brass	.250 x .032	.060 - .100	A27627CT-ND	16.76	69.85	111.76	A27627TR-ND	2,500	97.80/M	61988-1
	18-22	.015	Tin Plated Brass	.250 x .032	.060 - .100	A27628CT-ND	20.87	86.98	139.16	A27628TR-ND	2,500	121.77/M	61988-2
	14-18	.015	Brass	.250 x .032	.120 - .170	A27629CT-ND	16.29	67.86	108.58	A27629TR-ND	2,500	95.01/M	61944-1
	14-18	.015	Tin Plated Brass	.250 x .032	.120 - .170	A27630CT-ND	17.39	72.46	115.94	A27630TR-ND	2,500	101.45/M	61944-2
	14-18	.032-.016	Brass	.250 x .032	.120 - .170	A27631CT-ND‡	25.61	106.69	170.70	A27631TR-ND‡	2,500	149.37/M	62109-1
	14-18	.032-.016	Tin Plated Brass	.250 x .032	.120 - .170	A27632CT-ND‡	27.85	116.05	185.68	A27632TR-ND‡	2,500	162.48/M	62109-2
Non-Insulation Support													
3	14-18	.016	Brass	.250 x .032	—	A27638CT-ND	7.25	30.23	48.36	A27638TR-ND	14,000	32.65/M	42845-1
	14-18	.016	Tin Plated Brass	.250 x .032	—	A27639CT-ND	7.67	31.95	51.12	A27639TR-ND	14,000	34.51/M	42845-2
4	14-18	.015	Pre-Tin Brass	.250 x .032	—	A27640CT-ND	15.52	64.66	103.46	A27640TR-ND	2,500	90.53/M	62276-1
	10-14	.015	Pre-Tin Brass	.250 x .032	—	A27641CT-ND	18.68	77.83	124.52	A27641TR-ND	2,500	108.96/M	62068-1
Flag Insulation Support													
5	14-18	.016	Brass	.250 x .032	.110 - .160	A27635CT-ND▲	10.13	42.20	67.52	A27635TR-ND▲	11,000	50.64/M	63096-1
6	12-18	.016	Brass	.250 x .032	.110 - .210	A27636CT-ND	10.34	43.08	68.92	A27636TR-ND	4,000	51.69/M	42742-1
	12-18	.016	Tin Plated Brass	.250 x .032	.110 - .210	A27637CT-ND	10.46	43.59	69.74	A27637TR-ND	4,000	52.31/M	42742-2
Flag Non-Insulation Support													
7	12-18	.016	Pre-Tin Brass	.250 x .032	—	A27642CT-ND†	9.83	40.95	65.52	A27642TR-ND†	5,000	49.14/M	61177-2
	12-18	.016	Pre-Tin Brass	.250 x .032	—	A27643CT-ND§	13.41	55.89	89.42	A27643TR-ND§	4,000	67.07/M	62091-2
	10-12 or	.016	Brass	.250 x .032	—	A27644CT-ND§	13.83	57.64	92.22	A27644TR-ND§	4,000	69.17/M	62011-1
	(2)14	.016	Tin Plated Brass	.250 x .032	—	A27645CT-ND§	14.30	59.58	95.32	A27645TR-ND§	4,000	71.49/M	62011-2
.205” Series - Insulation Support													
8	18-22	.012	Brass	.205 x .020	.085 - .125	A27689CT-ND	8.31	34.61	55.38	A27689TR-ND	15,000	37.39/M	42710-1
	18-22	.012	Tin Plated Brass	.205 x .020	.085 - .125	A27690CT-ND	8.51	35.44	56.70	A27690TR-ND	15,000	38.28/M	42710-2
	18-22	.012	Tin Plated Brass	.205 x .032	.085 - .125	A27691CT-ND	8.96	37.31	59.70	A27691TR-ND	20,000	40.30/M	60904-2
	14-18	.012	Tin Plated Brass	.205 x .020	.130 - .180	A27692CT-ND	11.41	47.53	76.04	A27692TR-ND	16,000	51.33/M	42713-2
.187” Series													
Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27720CT-ND	4.96	20.65	33.04	A27720TR-ND	20,000	22.31/M	42801-1
	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	A27721CT-ND	5.54	23.08	36.92	A27721TR-ND	20,000	24.93/M	42801-2
	16-20	.012	Brass	.187 x .032	.090 - .130	A27722CT-ND	5.97	24.86	39.78	A27722TR-ND	20,000	26.86/M	60196-1
	16-20	.012	Tin Plated Brass	.187 x .032	.090 - .130	A27723CT-ND	6.40	26.65	42.64	A27723TR-ND	20,000	28.79/M	60196-2
Non-Insulation Support													
3	16-20	.012	Brass	.187 x .020	—	A27724CT-ND	5.65	23.54	37.66	A27724TR-ND	25,000	23.54/M	42799-1
	16-20	.012	Tin Plated Brass	.187 x .020	—	A27725CT-ND	9.61	40.05	64.08	A27725TR-ND	25,000	40.05/M	42799-2
Flag Insulation Support													
6	16-20	.012	Brass	.187 x .020	.110 - .170	A27726CT-ND	5.60	23.31	37.30	A27726TR-ND	6,000	27.98/M	42800-1
	16-20	.012	Tin Plated Brass	.187 x .020	.110 - .170	A27727CT-ND	6.30	26.26	42.02	A27727TR-ND	6,000	31.52/M	42800-2
	16-20	.012	Brass	.187 x .032	.110 - .170	A27728CT-ND	5.57	23.20	37.12	A27728TR-ND	6,000	27.84/M	60529-1
	16-20	.012	Tin Plated Brass	.187 x .032	.110 - .170	A27729CT-ND	7.53	31.39	50.22	A27729TR-ND	6,000	37.67/M	60529-2

Δ UL/CSA certified for 22 AWG only † Right handed flag ▲ Left handed flag § Right or left handed. Carrier out front for thru splicing ‡ Dual thickness

Fig. 1

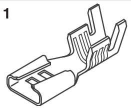

Fig. 2

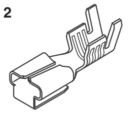

Fig. 3

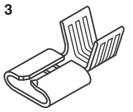

Fig. 4

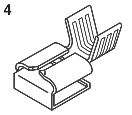

Fig. 5

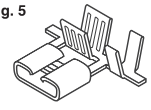

Fig. 6

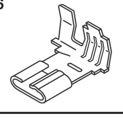

Fig. 7

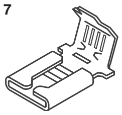

Fig. 8

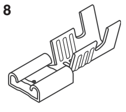

AMP Premier FASTON Terminals

Fig. 1

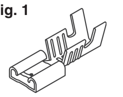

Fig. 2 ***NEW!***

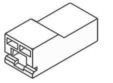

Fig. 3

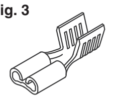

Fig. 4

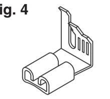

Fig. 5

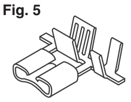

Fig. 6

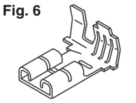

Fig. 7

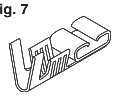

Fig. 8

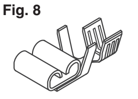

Fig. 9

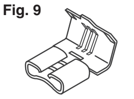

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	SP	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
										100	500	1,000		Qty.	Pricing	
.312” Series																
Insulation Support																
1	14-18	.016	Brass	.312 x .032	.090 - .130	—	X	X	A27979CT-ND	12.28	51.16	81.86	A27979TR-ND	8,000	61.40/M	62092-1
	12-16	.016	Tin Plated Brass	.312 x .032	.110 - .210 or (2) .110 Max.	X	—	X	A27580CT-ND	17.46	72.76	116.42	A27580TR-ND	6,000	87.32/M	61399-1
NEW! FASTON Receptacle Connectors NEW!																
2	—	—	—	.312 x .032	—	X	X	X	A100200-ND▲	10.45	47.31	88.01	—	—	—	1969186-1
	—	—	—	.312 x .032	—	X	X	X	A100201-ND▲	8.81	39.86	74.15	—	—	—	1969186-2
.250” Series																
1	20-24	.016	Tin Plated Brass	.250 x .032	.030 - .070	X‡	—	X‡	A27581CT-ND	9.02	37.56	60.10	A27581TR-ND	12,000	40.57/M	61368-1
	18-22	.016	Brass	.250 x .032	.060 - .100	X	—	X	A27582CT-ND	9.02	37.58	60.12	A27582TR-ND	12,000	40.59/M	42640-1
	18-22	.016	Tin Plated Brass	.250 x .032	.060 - .100	X	—	X	A27583CT-ND	9.94	41.41	66.26	A27583TR-ND	12,000	44.73/M	42640-2
	18-22	.016	Brass	.250 x .032	.090 - .130	X	—	X	A27584CT-ND	10.88	45.33	72.52	A27584TR-ND	12,500	48.96/M	41771
	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	X	—	X	A24736CT-ND	—	52.35	95.18	A24736TR-ND	12,500	51.40/M	41772
	14-18	.018	Tin Plated Brass	.250 x .032	.060 - .110	X	—	X	A24744CT-ND	—	—	101.18	A24744TR-ND	12,000	54.64/M	61375-1
	14-18	.016	Nickel Plated Steel	.250 x .032	.120 - .170	—	X	—	A27588CT-ND	9.00	37.51	60.02	A27588TR-ND	10,000	40.52/M	42219-1
	14-18	.018	Brass	.250 x .032	.120 - .170	X	—	X	A27587CT-ND	9.25	38.53	61.64	A27587TR-ND	11,000	41.61/M	41202
	14-18	.018	Tin Plated Brass	.250 x .032	.120 - .170	X	—	X	A27589CT-ND	8.68	36.16	57.86	A27589TR-ND	11,000	39.06/M	41274
	12-16	.018	Brass	.250 x .032	.210-.265 or (2).120 Max.	X	—	X	A27590CT-ND	13.73	57.20	91.52	A27590TR-ND	6,000	68.64/M	41727
	12-16	.018	Tin Plated Brass	.250 x .032	.210-.265 or (2).120 Max.	X	—	X	A27592CT-ND	11.95	49.78	79.64	A27592TR-ND	6,000	59.73/M	41728
	12-16	.018	Nickel Plated Steel	.250 x .032	.210 - .265	—	X	—	A27591CT-ND	11.10	46.26	74.02	A27591TR-ND	5,000	55.52/M	42579-1
	10-14	.018	Brass	.250 x .032	.150 - .200	X	—	X	A27595CT-ND	10.88	45.33	72.52	A27595TR-ND	9,000	54.39/M	41449
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	X	—	X	A24737CT-ND	—	—	95.18	A24737TR-ND	9,000	57.11/M	41450
	10-14 or (2)14	.018	Tin Plated Brass	.250 x .032	.225-.275 or (2).140 Max.	X	—	X	A27594CT-ND	11.63	48.44	77.50	A27594TR-ND	6,000	58.13/M	60635-1
		.018	Brass	.250 x .032	.225-.275 or (2).140 Max.	X	—	X	A27593CT-ND	10.51	43.80	70.08	A27593TR-ND	6,000	52.56/M	60635-3
	10-8	.017	Brass/Tin	.250 x .032	.230 - .280	X	—	X	A29935CT-ND	17.09	78.35	142.45	A29935TR-ND	5,000	113.96/M	62998-2
Non-Insulation Support																
3	14-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A24738CT-ND	10.42	43.40	69.44	A24738TR-ND	12,000	46.88/M	41194
Flag Insulation Support																
4	12-18	.018	Brass	.250 x .032	.110 - .210	X	—	X	A27605CT-ND	12.64	52.68	84.28	A27605TR-ND	4,000	63.21/M	41531
	12-18	.018	Nickel Plated Steel	.250 x .032	.110 - .210	—	X	X	A24739CT-ND	13.02	54.26	86.82	A24739TR-ND	3,500	75.97/M	41531-1
	12-18	.018	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27606CT-ND	13.28	55.31	88.50	A27606TR-ND	4,000	66.38/M	41532
	12-18	.016	Nickel Plated Steel	.250 x .032	.110 - .210	—	—	—	A27607CT-ND	11.45	47.73	76.36	A27607TR-ND	3,500	66.82/M	42404-1
5	18-22	.016	Brass	.250 x .032	.060 - .100	X	—	X	A27597CT-ND*	10.49	43.69	69.90	A27597TR-ND*	12,000	52.43/M	62813-1
	18-22	.016	Tin Plated Brass	.250 x .032	.060 - .100	X	—	X	A27598CT-ND*	12.29	51.21	81.94	A27598TR-ND*	12,000	61.46/M	62813-2
	18-22	.016	Brass	.250 x .032	.060 - .100	X	—	X	A27599CT-ND†	9.13	38.03	60.84	A27599TR-ND†	12,000	45.63/M	62814-1
	18-22	.016	Tin Plated Brass	.250 x .032	.060 - .100	X	—	X	A27600CT-ND†	11.33	47.19	75.50	A27600TR-ND†	12,000	56.63/M	62814-2
	14-18	.016	Brass	.250 x .032	.110 - .160	X	—	X	A27601CT-ND*	8.98	37.41	59.86	A27601TR-ND*	11,000	44.90/M	63011-1
	14-18	.016	Tin Plated Brass	.250 x .032	.110 - .160	X	—	X	A27602CT-ND*	10.14	42.26	67.62	A27602TR-ND*	11,000	50.72/M	63011-2
	14-18	.016	Tin Plated Brass	.250 x .032	.110 - .160	X	—	X	A27604CT-ND†	10.31	42.96	68.74	A27604TR-ND†	11,000	51.56/M	63012-2
Low Insertion Force - Flag Insulation Support																
6	12-18	.016	Brass	.250 x .032	.110 - .210	X	—	X	A27784CT-ND	10.55	43.96	70.34	A27784TR-ND	4,000	52.76/M	63445-1
	12-18	.016	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27785CT-ND	11.16	46.51	74.42	A27785TR-ND	4,000	55.82/M	63445-2
	12-18	.016	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A23262CT-ND	11.60	48.31	77.30	A23262TR-ND	4,000	57.98/M	63445-4
Reversible Flag - Straight End Feed - Insulation Support																
7	14-18	.016	Brass	.250 x .032	.090 - .130	X	—	X	A27675CT-ND	11.66	48.56	77.70	A27675TR-ND	6,500	58.28/M	62048-1
	14-18	.016	Tin Plated Brass	.250 x .032	.090 - .130	X	—	X	A27676CT-ND	13.99	58.28	93.24	A27676TR-ND	6,500	69.94/M	62048-2
	14-18	.016	Tin Plated Brass	.250 x .032	.170 - .220	X	—	X	A27677CT-ND	15.88	66.16	105.86	A27677TR-ND	8,000	79.40/M	60764-2
.250” Series - Receptacles for Hermetic Header Tabs																
Straight - Insulation Support																
1	14-18	.018	Tin Plated Brass	.250 x .032	.120 - .170	X	—	X	A27657CT-ND§	11.45	47.71	76.34	A27657TR-ND§	11,000	51.53/M	41832
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	X	—	X	A27659CT-ND§	12.29	51.19	81.90	A27659TR-ND§	8,000	61.43/M	42437-2
	10-14	.018	Tin Plated Phos. Brz.	.250 x .032	.150 - .200	X	—	X	A27660CT-ND◊	16.55	68.98	110.36	A27660TR-ND◊	8,000	82.77/M	42437-5
Flag Insulation Support																
4	12-18	.018	Tin Plated Phos. Brz.	.250 x .032	.110 - .210	X	—	X	A27661CT-ND◊	17.66	73.60	117.76	A27661TR-ND◊	4,000	88.32/M	41800
	12-18	.018	Brass	.250 x .032	.110 - .210	X	—	X	A27662CT-ND§	12.91	53.80	86.08	A27662TR-ND§	4,000	64.56/M	41801
	12-18	.018	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27663CT-ND§	13.48	56.18	89.88	A27663TR-ND§	4,000	67.41/M	41802
	12-18	.018	Tin Phosphor Brz.	.250 x .032	.110 - .210	X	—	X	A27664CT-ND≠	21.32	88.83	142.12	A27664TR-ND≠	4,000	106.59/M	60274-2
	10-12	.018	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27665CT-ND§	15.36	63.99	102.38	A27665TR-ND§	3,500	89.59/M	60851-1
	10-12	.018	Silver Plated Brass	.250 x .032	.110 - .210	X	—	X	A27666CT-ND§	47.18	196.58	314.52	A27666TR-ND§	3,500	275.21/M	60851-2
	10-12	.018	Silver Plate Phos. Brz.	.250 x .032	.110 - .210	X	—	X	A27667CT-ND◊	46.03	191.80	306.88	A27667TR-ND◊	3,500	268.52/M	42563-6
	10-12	.018	Nickel Plated Steel	.250 x .032	.110 - .210	—	—	—	A27668CT-ND	13.96	58.15	93.04	A27668TR-ND	3,500	81.42/M	42563-9
	10-12	.018	Tin Plated Phos. Brz.	.250 x .032	.110 - .210	X	—	X	A27669CT-ND◊	18.36	76.50	122.40	A27669TR-ND◊	3,500	107.10/M	42563-8
Reversible Flag - Side Feed - Insulation Support																
8	12-16	.018	Tin Plated Phos. Brz.	.250 x .032	.130 - .170	X	—	X	A27678CT-ND◊	25.57	106.54	170.46	A27678TR-ND◊	2,500	149.16/M	61188-1
Flag Non-Insulation Support																
9	12-18	.018	Tin Plate Phos. Brz.	.250 x .032	—	X	—	X	A27670CT-ND#	17.18	71.60	114.56	A27670TR-ND#	4,000	85.92/M	62056-6
	12-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A27671CT-ND#	13.22	55.08	88.12	A27671TR-ND#	4,000	66.09/M	62056-3
	12-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A27672CT-ND*	13.22	55.08	88.12	A27672TR-ND*	4,000	66.09/M	62056-4
	10-12	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A27673CT-ND†	16.07	66.96	107.14	A27673TR-ND†	4,000	80.36/M	62057-3
	10-12	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A27674CT-ND††	21.20	88.31	141.30	A27674TR-ND††	4,000	105.98/M	62022-2
.205” Series																
Insulation Support																
1	18-22	.012	Tin Plated Brass	.205 x .020	.085 - .125	X	—	X	A27681CT-ND	8.90	37.10	59.36	A27681TR-ND	20,000	40.07/M	42198-2
	14-18	.016	Tin Plated Brass	.205 x .032	.130 - .180	X	—	X	A27682CT-ND	8.53	35.55	56.88	A27682TR-ND	16,000	42.66/M	42233-2
Non-Insulation Support																
3	18-22	.012	Tin Plated Brass	.205 x .020	—	X	—	X	A27683CT-NDΔ	9.44	39.31	62.90	A27683TR-NDΔ	20,000	42.46/M	42197-2
Flag Insulation Support																
4	16-20	.012	Tin Plated Brass	.205 x .020	.110 - .170	X	—	X	A27685CT-ND	10.76	44.84	71.74	A27685TR-ND	5,000	53.81/M	42199-2
	14-20	.016	Tin Plated Brass	.205 x .032	.110 - .170	X	—	X	A27687CT-ND	10.64	44.35	70.96	A27687TR-ND	5,000	53.22/M	42234-2
.187” Series																
Insulation Support																
1	20-24	.012	Tin Plated Brass	.187 x .020	.040 - .070	X‡	—	X‡	A27695CT-ND	8.44	35.15	56.24	A27695TR-ND	20,000	37.97/M	60573-1
	20-24	.012	Brass	.187 x .020	.040 - .070	X‡	—	X‡	A27696CT-ND	7.42	30.93	49.48	A27696TR-ND	20,000	33.40/M	60573-2
	20-24	.012	Tin Plated Brass	.187 x .020	.060 - .110	X‡	—	X‡	A27698CT-ND	9.59	39.96	63.94	A27698TR-ND	20,000	43.16/M	62138-1
	20-24	.012	Brass	.187 x .020	.060 - .110	X‡	—	X‡	A27699CT-ND	8.43	35.14	56.22	A27699TR-ND	20,000	37.95/M	62138-2
	20-24	.012	Tin Plated Brass	.187 x .032	.040 - .070	X‡	—	X‡	A27697CT-ND	7.42	30.93	49.48	A27697TR-ND	20,000	33.40/M	62181-1

▲ Bulk ‡ UL listed and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel * Left Hand
† Right Hand †† Right or left hand. Carrier is in front to facilitate thru splicing. Δ No slots

(Continued)

AMP Premier FASTON Terminals *(Cont.)*

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	SP	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
1	16-20	.012	Brass	.187 x .020	.090 - .130	X	—	X	A27700CT-ND	8.03	33.45	53.52	A27700TR-ND	20,000	36.13/M	42452-1
	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732CT-ND	—	—	60.50	A24732TR-ND	20,000	40.84/M	42452-2
	16-20	.012	Brass	.187 x .032	.090 - .130	X	—	X	A27702CT-ND	8.90	37.06	59.30	A27702TR-ND	20,000	40.03/M	61758-1
	16-20	.012	Brass	.187 x .020	.060 - .110	X	—	X	A27703CT-ND	7.43	30.94	49.50	A27703TR-ND	20,000	33.42/M	62137-1
	16-20	.012	Tin Plated Brass	.187 x .020	.060 - .110	X	—	X	A27704CT-ND	7.80	32.49	51.98	A27704TR-ND	20,000	35.09/M	62137-2
	16-18 or (2)18	.012	Tin Plated Brass	.187 x .020	(2).105 Max.	—	—	X	A27706CT-ND	6.92	28.83	46.12	A27706TR-ND	18,000	31.14/M	60487-2
		.012	Tin Plated Brass	.187 x .032	(2).105 Max.	—	—	X	A27707CT-ND	9.85	41.03	65.64	A27707TR-ND	18,000	44.31/M	61945-1
Non-Insulation Support																
3	16-20	.012	Tin Plated Brass	.187 x .020	—	X	—	X	A27708CT-ND	8.49	35.36	56.58	A27708TR-ND	12,000	38.20/M	42373-2
	16-20	.012	Nickel Plated Steel	.187 x .020	—	—	X	—	A27709CT-ND	9.57	39.89	63.82	A27709TR-ND	12,000	43.08/M	42373-3
	16-20	.012	Tin Plated Brass	.187 x .015	—	—	—	X	A27710CT-ND	8.42	35.09	56.14	A27710TR-ND	12,000	37.90/M	42374-2
Flag Insulation Support																
4	16-20	.012	Brass	.187 x .020	.110 - .170	X	—	X	A27711CT-ND	9.45	39.39	63.02	A27711TR-ND	6,000	47.27/M	42486-1
	16-20	.012	Tin Plated Brass	.187 x .020	.110 - .170	X	—	X	A27712CT-ND	10.08	42.01	67.22	A27712TR-ND	6,000	50.42/M	42486-2
	16-20	.012	Tin Plated Brass	.187 x .032	.110 - .170	X	—	X	A27713CT-ND	9.45	39.39	63.02	A27713TR-ND	6,000	47.27/M	62591-1

▲ Bulk ‡ UL listed and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel ⋆ Left Hand
† Right Hand †† Right or left hand. Carrier is in front to facilitate thru splicing. Δ No slots

Loose Piece

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	SP	Digi-Key Part No.	Pricing 10	100	AMP Part No.
.250" Series - Insulation Support												
1	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	X	—	X	A24736-ND	2.54	22.39	60878-2
	18-16	.018	Tin Plated Brass	.250 x .032	.120 - .145	X	—	X	A36376-ND	2.77	24.33	41729
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	X	—	X	A24737-ND	2.54	22.39	61227-1
.187" Series - Insulation Support												
1	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732-ND	2.55	22.42	42566-2

AMP Commercial FASTON Terminals

UL SP RoHS COMPLIANT

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250" Series - Insulation Support													
1	16-20, (2)23 or (2)20	.016	Brass	.250 x .032	.100 - .140 or (2).060 Max.	A27679CT-ND§	11.69	48.69	77.90	A27679TR-ND§	12,000	52.59/M	60384-1
	14-18 or (2)17	.016	Tin Plated Brass	.250 x .032	.120 - .170 or (2).060 Max.	A27680CT-ND§	13.65	56.89	91.02	A27680TR-ND§	12,000	61.44/M	60385-2
Flag													
2	20-24	.016	Tin Plated Brass	.250 x .032	.048 - .078	A27646CT-ND*	15.85	66.05	105.68	A27646TR-ND*	3,000	92.47/M	60736-2
	16-22	.016	Brass	.250 x .032	.090 - .140	A27647CT-ND	12.78	53.25	85.20	A27647TR-ND	3,000	74.55/M	62418-1
	14-18	.016	Tin Plated Brass	.250 x .032	.090 - .140	A27650CT-ND	15.80	67.19	115.40	A27650TR-ND	3,000	102.58/M	60290-2
.187" Series - Insulation Support													
1	14-18	.014	Brass	.187 x .020	.150 - .190	A27730CT-ND	7.49	31.23	49.96	A27730TR-ND	12,000	33.73/M	62016-1
	14-18	.014	Tin Plated Brass	.187 x .020	.150 - .190	A27731CT-ND	9.85	41.91	62.38	A27731TR-ND	12,000	43.19/M	62016-2
	14-18 or (2)16	.014	Brass	.187 x .020	.180 - .230 or (2).110 Max.	A27732CT-ND	9.14	38.10	60.96	A27732TR-ND	12,500	41.15/M	60742-1
		.014	Tin Plated Brass	.187 x .020		A27733CT-ND	9.74	40.56	64.90	A27733TR-ND	12,500	43.81/M	60742-2
		.014	Brass	.187 x .032		A29943CT-ND	8.08	37.03	67.33	A29943TR-ND	12,500	36.36/M	63596-1
Receptacle and Tab Combination													
3	16-20	.020 (tab) .014 (recept.)	Brass	.187 x .032	.090 - .130	A29944CT-ND	17.91	82.10	149.28	A29944TR-ND	3,500	119.42/M	63646-1
	16-20		Tin Plated Brass	.187 x .020	.090 - .130	A27738CT-ND	19.33	80.55	128.88	A27738TR-ND	3,500	112.78/M	62026-1
	16-20		Brass	.187 x .020	.090 - .130	A27739CT-ND	17.10	71.25	114.00	A27739TR-ND	3,500	99.76/M	62026-2
	16-20		Tin Plated Brass	.187 x .020	.060 - .110	A27740CT-ND	18.09	75.39	120.62	A27740TR-ND	3,500	105.55/M	62139-1
Flag													
4	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	A27735CT-ND	14.52	60.49	96.78	A27735TR-ND	4,000	72.59/M	60755-2
	18-22	.012	Brass	.187 x .020	.060 - .090	A27736CT-ND	10.85	45.23	72.36	A27736TR-ND	4,000	54.27/M	62085-1
	18-22	.012	Tin Plated Brass	.187 x .020	.060 - .090	A27737CT-ND	13.87	57.80	92.48	A27737TR-ND	4,000	69.36/M	62085-2
.110" Series													
Insulation Support													
5	22-24	.010	Pre-Tin Brass	.110 x .020	.040 - .060	A27745CT-ND†	5.96	24.81	39.70	A27745TR-ND†	20,000	26.80/M	42067-1
	22-24	.010	Pre-Tin Brass	.110 x .016	.040 - .060	A27746CT-ND	8.57	35.73	57.16	A27746TR-ND	15,000	38.59/M	42415-1
	18-22	.010	Brass/Tin	.110 x .012	.060 - .100	A29945CT-ND	6.41	29.40	53.45	A29945TR-ND	15,000	28.87/M	60415-1
	18-22	.010	Brass	.110 x .020	.060 - .100	A24745CT-ND	5.63	23.48	37.56	A24745TR-ND	15,000	25.36/M	42068
	18-22	.010	Pre-Tin Brass	.110 x .020	.060 - .100	A27747CT-ND	6.34	26.43	42.28	A27747TR-ND	15,000	28.54/M	42068-1
	18-22	.010	Pre-Tin Brass	.110 x .016	.060 - .100	A27748CT-ND	5.96	24.84	39.74	A27748TR-ND	15,000	26.83/M	60118-1
	18-22	.010	Pre-Tin Brass	.110 x .032	.060 - .100	A27749CT-ND	7.29	30.36	48.58	A27749TR-ND	15,000	32.80/M	60197-1
	18-22	.010	Pre-Tin Brass	.110 x .032	.060 - .100	A27750CT-ND	5.96	24.84	39.74	A27750TR-ND	15,000	26.83/M	60577-1
	18-22	.010	Pre-Tin Brass	.110 x .020	.090 - .130	A27751CT-ND	9.22	38.41	61.46	A27751TR-ND	15,000	41.49/M	62094-1
	18-22	.010	Pre-Tin Brass	.110 x .020	.120 - .140	A27752CT-ND	5.96	24.84	39.74	A27752TR-ND	12,000	26.83/M	60729-1
	18-22	.010	Pre-Tin Brass	.110 x .025	.120 - .140	A27753CT-ND	7.45	31.03	49.64	A27753TR-ND	12,000	33.51/M	61158-1
	16-20	.010	Pre-Tin Brass	.110 x .020	.120 - .140	A27754CT-ND	6.68	27.81	44.50	A27754TR-ND	15,000	30.04/M	61400-1
	16-20	.010	Pre-Tin Brass	.110 x .020	.060 - .100	A27755CT-ND	8.27	34.46	55.14	A27755TR-ND	15,000	37.22/M	61408-1
	16-20	.010	Pre-Tin Brass	.110 x .032	.120 - .140	A27756CT-ND	7.46	31.08	49.72	A27756TR-ND	9,000	33.57/M	62050-1
	16-20	.010	Tin Plated Brass	.110 x .020	.150 - .170	A27757CT-ND	10.91	45.44	72.70	A27757TR-ND	7,000	49.08/M	62191-1
Non-Insulation Support													
6	18-20 or (2)20	.010	Pre-Tin Brass	.110 x .020	—	A27758CT-ND	7.41	30.86	49.38	A27758TR-ND	25,000	30.87/M	42399-1
	16-20	.010	Pre-Tin Brass	.110 x .016	—	A27759CT-ND	8.03	33.48	53.56	A27759TR-ND	20,000	36.16/M	61457-1
	14-18	.010	Pre-Tin Brass	.110 x .020	—	A27760CT-ND	7.41	30.86	49.38	A27760TR-ND	6,000	37.04/M	62852-1
Flag Insulation Support													
7	18-22	.012	Tin Plated Brass	.110 x .020	.060 - .100	A27761CT-ND	8.27	34.48	55.16	A27761TR-ND	12,000	37.24/M	61070-1
	18-22	.012	Brass	.110 x .020	.060 - .100	A27762CT-ND	7.24	30.18	48.28	A27762TR-ND	12,000	32.59/M	61070-2
	18-22	.010	Pre-Tin Brass	.110 x .020	.060 - .100	A27763CT-ND	9.22	38.40	61.44	A27763TR-ND	12,000	41.48/M	61481-1
	18-22	.010	Pre-Tin Brass	.110 x .032	.060 - .100	A27764CT-ND	7.50	31.24	49.98	A27764TR-ND	12,000	33.74/M	62336-1
8	18-22	.010	Pre-Tin Brass	.110 x .020	.065 - .100	A27765CT-ND	9.37	39.05	62.48	A27765TR-ND	12,000	42.18/M	61372-1
	18-22	.010	Pre-Tin Brass	.110 x .016	.065 - .100	A27766CT-ND‡	10.21	42.54	68.06	A27766TR-ND‡	8,000	51.05/M	61459-1
	18-22	.010	Pre-Tin Brass	.110 x .025	.065 - .100	A27767CT-ND‡	9.55	39.78	63.64	A27767TR-ND‡	12,000	42.96/M	61530-1
Flag Non-Insulation Support													
9	16-22	.012	Brass	.110 x .020	—	A27768CT-NDΔ	8.95	37.30	59.68	A27768TR-NDΔ	15,000	40.29/M	60991-1
	16-22	.010	Pre-Tin Brass	.110 x .020	—	A27769CT-NDΔ	6.10	25.94	38.61	A27769TR-NDΔ	15,000	24.75/M	61549-1
	16-22	.010	Pre-Tin Brass	.110 x .020	—	A27770CT-NDΔ	6.31	26.30	42.08	A27770TR-NDΔ	15,000	28.41/M	62321-1

§ AMPLIVAR fastons - Use with magnet wire * UL listed and CSA certified for 20-22 AWG wire only † UL listed for 22 AWG wire only ‡ CSA certified only Δ UL listed and CSA certified for 18-22 AWG only

Fig. 1

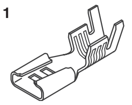

Fig. 2

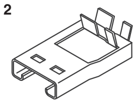

Fig. 3

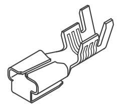

Fig. 4

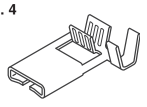

Fig. 5

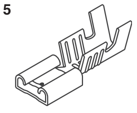

Fig. 6

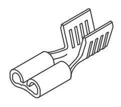

Fig. 7

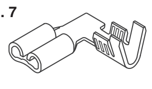

Fig. 8

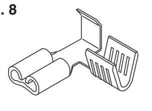

Fig. 9

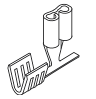

Tyco Electronics
Authorized Distributor

AMP Moldable Line FASTONS

Fig. 1

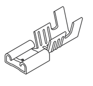

Fig. 2

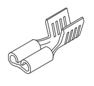

Fig. 3

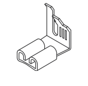

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
							100	500	1,000		Qty.	Pricing	
.250” Series													
Insulation Support													
1	18-22	.016	Brass	.250 x .032	.090- .130	A27651CT-ND	7.71	32.13	51.40	A27651TR-ND	10,000	34.70/M	63127-1
	14-18	.016	Brass	.250 x .032	.120- .170	A27652CT-ND	7.68	31.99	51.18	A27652TR-ND	10,000	34.55/M	60650-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120- .170	A27653CT-ND	8.25	34.38	55.00	A27653TR-ND	10,000	37.13/M	60650-2
Non-Insulation Support													
2	14-18	.016	Brass	.250 x .032	—	A27654CT-ND	9.19	38.28	61.24	A27654TR-ND	12,000	41.34/M	60938-1
	14-18	.016	Tin Plated Brass	.250 x .032	—	A27655CT-ND	10.01	41.70	66.72	A27655TR-ND	12,000	50.04/M	60938-2
Flag-Insulation Support													
3	12-18	.016	Brass	.250 x .032	.110-.210	A27656CT-ND	11.01	45.86	73.38	A27656TR-ND	4,000	55.04/M	60641-1
.205” Series													
Flag-Insulation Support													
3	14-20	.016	Tin Plated Brass	.032	.110-.170	A27694CT-ND	13.46	56.08	89.72	A27694TR-ND	5,000	67.29/M	60195-2
.187” Series													
1	16-20	.012	Brass	.020	.090-.130	A27741CT-ND	4.90	20.40	32.64	A27741TR-ND	20,000	22.04/M	60214-1
	16-20	.012	Tin Plated Brass	.020	.090-.130	A27742CT-ND	9.86	41.06	65.70	A27742TR-ND	20,000	44.35/M	60214-2
Flag-Insulation Support - Economy Line													
3	16-20	.012	Brass	.020	.110-.170	A27743CT-ND	7.60	31.65	50.64	A27743TR-ND	6,000	37.98/M	61029-1
	16-20	.012	Tin Plated Brass	.020	.110-.170	A27744CT-ND	7.93	33.03	52.84	A27744TR-ND	6,000	39.63/M	61029-2

AMP .250” Series FASTIN-FASTON Connectors

Receptacles

Fig. 1

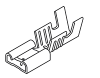

Fig. 2

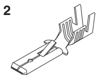

Fig. 3

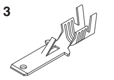

Fig. 4

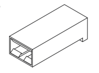

Fig. 5

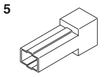

Fig. 6

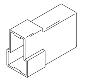

Fig. 7

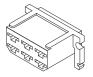

Fig. 8

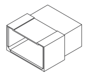

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
							100	500	1,000		Qty.	Pricing	
Use with Single Circuit Connectors													
1	14-18	.016	Brass	.032	.100-.170	A27926CT-ND	15.32	63.84	102.14	A27926TR-ND	11,000	68.95/M	42281-1
	14-18	.016	Tin Plated Brass	.032	.100-.170	A27927CT-ND	16.85	70.21	112.34	A27927TR-ND	11,000	75.83/M	42281-2
	14-18	.016	Brass	.032	.100-.170	A27928CT-ND*	12.89	53.70	85.92	A27928TR-ND*	10,000	58.00/M	60634-1
	12-16 or (2)16	.016	Brass	.032	.160-.220 or (2).130 Max.	A27929CT-ND	15.47	64.46	103.14	A27929TR-ND	9,000	77.36/M	60249-1
	12-16 or (2)16	.016	Tin Plated Brass	.032	.160-.220 or (2).130 Max.	A27930CT-ND	17.01	70.88	113.40	A27930TR-ND	9,000	85.05/M	60249-2
Use with Multiple Circuit Connectors													
1	18-22	.012	Tin Plated Brass	.032	.085-.125	A27933CT-ND	21.17	88.23	141.16	A27933TR-ND	12,000	95.29/M	60295-2
	18-22	.012	Tin Plated Brass	.032	.060-.100	A27934CT-ND	16.95	70.64	113.02	A27934TR-ND	12,000	76.29/M	60413-1
	14-18	.012	Brass	.032	.100-.170	A27935CT-ND	12.25	51.03	81.64	A27935TR-ND	12,000	55.11/M	42100-1
	14-18	.012	Tin Plated Brass	.032	.100-.170	A27936CT-ND	13.12	54.68	87.48	A27936TR-ND	12,000	59.05/M	42100-2
	12-16 or (2)16	.013	Tin Plated Brass	.032	.160-.210 or (2).130 Max.	A27937CT-ND	18.84	78.50	125.60	A27937TR-ND	10,000	84.78/M	60253-2

* No front slot

Tabs

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Tab Thickness (Inch)	Insulation Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
							100	500	1,000		Qty.	Pricing	
Use with Single or Multiple Circuit Connectors													
2	18-22	.015	Brass	.032	.085-.125	A27920CT-ND	16.21	67.53	108.04	A27920TR-ND	9,000	81.03/M	62553-1
	18-22	.015	Tin Plated Brass	.032	.085-.125	A27921CT-ND	18.64	77.65	124.24	A27921TR-ND	9,000	93.18/M	62553-3
	14-18	.015	Brass	.032	.100-.170	A27922CT-ND	12.24	51.00	81.60	A27922TR-ND	9,000	61.20/M	42460-1
	14-18	.015	Tin Plated Brass	.032	.100-.170	A27923CT-ND	13.01	54.19	86.70	A27923TR-ND	9,000	65.03/M	42460-2
	10-14	.015	Tin Plated Brass	.032	.120-.170	A27925CT-ND	19.68	81.99	131.18	A27925TR-ND	9,000	98.39/M	60701-1
3	14-18	.015	Tin Plated Brass	.016	.120-.145	A27924CT-ND†	18.73	78.05	124.88	A27924TR-ND†	8,000	93.66/M	42580-2

† Used for back-to-back with a combined thickness of .032”

Nylon Housings - UL 94V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing				AMP Part No.
				10	100	500	1,000	
Single Circuit Tab Housings								
4	Receptacle	Natural	A27915-ND	3.02	26.54	112.90	168.05	480054-3
	Receptacle	Black	A27917-ND	3.13	27.56	117.21	174.47	480054-4
	Receptacle	Red	A27918-ND	3.74	32.88	139.84	208.16	480054-5
5	Tab	Natural	A27916-ND	2.97	26.18	111.34	165.73	480053-3
	Tab	Red	A27919-ND	4.36	38.35	163.12	242.81	480053-5
Two Circuit Tab Housings								
6	Tab	Natural	A97719-ND	4.21	37.02	157.44	234.35	180908
Six Circuit Tab Housings								
7	Receptacle	Natural	A27931-ND	11.67	102.69	436.75	650.13	480003-5
8	Tab	Natural	A27932-ND	12.90	113.56	483.01	718.98	480004-5

Water Valve Coil Connector

This connector is designed to mate with the Appliance Industry's Standard Water Valve Coil. The connector is suitable for such applications as washing machine mixing valves, dishwasher fill valves and refrigerators with automatic ice makers.

Specifications: • Material: Nylon • UL 94 Flammability Rating: V-2

Features: • Prevents terminal back-out of housing through plastic retention feature

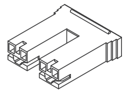

Color	Digi-Key Part No.	Pricing				AMP Part No.
		10	100	500	1,000	
Natural	A27938-ND	2.32	20.43	86.89	129.34	520935-1
Red	A27939-ND	2.67	23.49	99.91	148.73	520935-2

AMP FASTON Tabs

Fig. 1

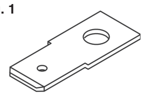

Fig. 2

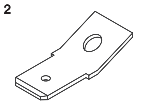

Fig. 3

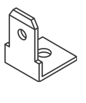

Fig. 4

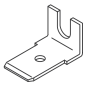

Fig.	Stud Dia. (Inch)	Tab Thickness (Inch)	Material/Finish and Description	UL	CSA	Digi-Key Part No.	Pricing				AMP Part No.
							10	100	500	1,000	
.250” Series (dimple - both sides)											
1	—	.032	Steel/Nickel	X	X	A29946-ND	2.75	24.18	102.84	153.08	42559-1
	.177	.032	Brass	—	—	A27857-ND	1.48	12.99	55.23	82.21	63038-2
2	.130	.032	Tin Plated Brass	X	X	A27858-ND	1.45	12.78	54.37	80.93	42822-2
	.145	.032	Tin Plated Brass	X	X	A27859-ND	1.45	12.78	54.37	80.93	42822-4
	.171	.032	Brass	X	X	A27860-ND	1.69	14.89	63.34	94.28	60465-1
	.171	.032	Tin Plated Brass	X	X	A27861-ND	2.15	18.96	80.64	120.04	60465-2
	.197	.032	Tin Plated Brass	X	X	A27863-ND	1.51	13.25	56.34	83.87	61499-1
	.203	.032	Tin Plated Brass	X	X	A27862-ND	1.53	13.49	57.39	85.43	61365-1
3	.097	.032	Brass	X	X	A27864-ND	3.22	28.34	120.52	179.40	41339
	.130	.032	Tin Plated Brass	X	X	A27865-ND	3.10	27.31	116.14	172.89	42095-1
	.130	.032	Tin Plated Brass	X	X	A27866-ND	1.39	12.22	51.99	77.40	42117-2
	.171	.032	Brass	X	X	A27867-ND	1.46	12.82	54.52	81.16	42214-1
	.171	.032	Tin Plated Brass	X	X	A27868-ND	1.55	13.65	58.07	86.44	42214-2
4	.125	.032	Brass	X	X	A27869-ND	1.91	16.78	71.37	106.24	41398
5	.130	.032	Tin Plated Brass	X	X	A27870-ND	2.00	17.58	74.76	111.29	42506-2
6	.097	.032	Tin Plated Brass, 1 Pair	—	—	A27882-ND	1.75	15.43	65.62	97.68	60080-2
	.130	.032	Brass, 1 Pair	X	X	A27872-ND	1.51	13.28	56.49	84.08	41290
	.130	.032	Brass, 2 Pair	X	X	A27873-ND	3.09	27.21	115.74	172.28	41291
	.130	.032	Brass, 3 Pair	X	X	A27874-ND	4.32	38.04	161.81	240.86	41292
	.130	.032	Brass, 4 Pair	X	X	A27875-ND	10.83	95.33	405.45	603.53	41370
	.130	.032	Tin Plated Brass, 1 Pair	X	X	A27876-ND	1.65	14.51	61.70	91.85	41480

† Bent 45° § Cut Tape ‡ Tape and Reel

(Continued)

AMP FASTON Tabs *(Cont.)*

Fig. 5

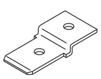

Fig. 6

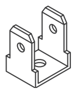

Fig. 7

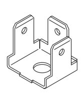

Fig. 8

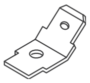

Fig.	Stud Dia. (Inch)	Tab Thickness (Inch)	Material/Finish and Description	UR	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
6	.130	.032	Tin Plated Brass, 2 Pair	X	X	A27877-ND	2.89	25.45	108.25	161.13	41481
	.130	.032	Tin Plated Brass, 3 Pair	X	X	A27878-ND	9.56	84.12	357.80	532.60	41482
	.171	.032	Brass, 1 Pair	X	X	A27880-ND	1.54	13.58	57.77	86.00	41619
	.171	.032	Tin Plated Brass, 1 Pair	X	X	A27881-ND	2.99	26.33	111.99	166.71	42802-1
7	.130	.032	Brass	X	X	A27871-ND	3.47	30.54	129.87	193.32	62261-1
			Cut Tape and Tape and Reel								
6	.130	.032	Tin Plated Brass	X	X	A27879CT-ND§	—	22.12	92.18	147.48	42115-4
	.130	.032	Tin Plated Brass	X	X	A27879TR-ND‡		884.88/6,000			42115-4
			.187” Series								
3	.145	.020	Tin Plated Brass	X	X	A27894-ND	1.06	9.35	39.77	59.20	61407-3
6	.130	.020	Tin Plated Brass	X	X	A27893-ND	1.58	13.88	59.04	87.89	61951-1
8	.130	.020	Tin Plated Brass	X	X	A27895-ND†	1.30	11.44	48.65	72.42	61761-2
	.145	.020	Brass	X	X	A27896-ND†	1.16	10.24	43.56	64.84	62576-1
	.171	.020	Tin Plated Brass	X	X	A27897-ND†	.88	7.78	33.09	49.26	61664-1

† Bent 45° § Cut Tape ‡ Tape and Reel

Wire Crimp

Fig. 1

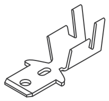

Fig. 2

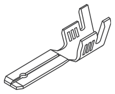

Fig. 3

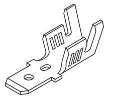

Fig. 4

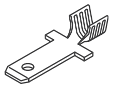

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Tab Thickness (Inch)	Insulation Diameter (Inch)	UL	UR	CSA	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
					.250” Series											
1	14-18	.032	Brass	.032	.120-.170	X	—	X	A27887CT-ND	13.83	57.61	92.18	A27887TR-ND	8,000	69.14/M	41411
	14-18	.032	Tin Plated Brass	.032	.120-.170	X	—	X	A27888CT-ND	10.86	45.25	72.40	A27888TR-ND	8,000	54.30/M	41412
2	18-22	.015	Brass	.032	.080-.120	—	X	X	A27883CT-ND	12.93	53.89	86.22	A27883TR-ND	3,500	75.45/M	42475-3
	18-22	.015	Tin Plated Brass	.032	.080-.120	—	X	X	A27884CT-ND	13.58	56.60	90.56	A27884TR-ND	3,500	79.24/M	42475-4
	14-18	.015	Tin Plated Brass	.032	.110-.150	—	X	X	A24741CT-ND	14.12	58.83	94.12	A24741TR-ND	3,000	82.36/M	42474-2
	14-18	.015	Brass	.032	.110-.150	—	X	X	A27885CT-ND	13.53	56.36	90.18	A27885TR-ND	3,000	78.91/M	42474-3
	14-18	.015	Tin Plated Brass	.032	.110-150	—	X	X	A27886CT-ND	13.94	58.08	92.92	A27886TR-ND	3,000	81.31/M	42474-4
	12-14	.015	Tin Plated Brass	.032	.110-.170	—	X	X	A27889CT-ND	13.09	54.53	87.24	A27889TR-ND	3,000	76.34/M	61281-3
	18-22	.020	Tin Plated Brass	.032	.070-.130	—	—	X	A29950CT-ND	14.13	64.76	117.75	A29950TR-ND	4,500	70.66/M	63138-1
					.187” Series											
3	18-22	.020	Tin Plated Brass	.020	.080-.120	X	—	X	A27898CT-ND	10.50	43.74	69.98	A27898TR-ND	5,000	52.49/M	42490-3
	18-22	.020	Brass	.020	.080-.120	X	—	X	A27899CT-ND	8.81	36.70	58.72	A27899TR-ND	5,000	44.04/M	42490-4
	14-18	.020	Brass	.020	.120-.150	X	—	X	A27900CT-ND	12.58	52.43	83.88	A27900TR-ND	3,500	83.88/M	60850-1
	14-18	.020	Tin Plated Brass	.020	.120-.150	X	—	X	A27901CT-ND	13.09	54.53	87.24	A27901TR-ND	3,500	76.34/M	60850-2
	14-18	.020	Tin Plated Brass	.032	.120-.150	X	—	X	A27902CT-ND‡	15.65	65.20	104.32	A27902TR-ND‡	3,500	91.28/M	61687-2
					.110” Series											
4	18-22	.020	Pre-Tin Brass	.020	—	X	—	X	A24783CT-ND	13.12	54.65	87.44	A24783TR-ND	10,000	59.03/M	62122-1
	18-22	.020	Pre-Tin Brass	.020	—	X	—	X	A24784CT-ND	14.31	59.61	95.38	A24784TR-ND	10,000	64.39/M	62384-1

‡ Premilled dual stock thickness

Printed Circuit Board Tabs

Fig. 1

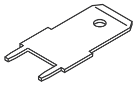

Fig. 2

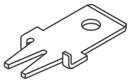

Fig. 3

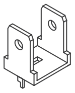

Fig. 4

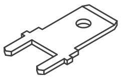

Fig. 5

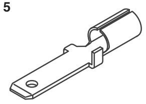

Fig. 6

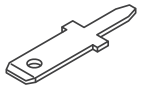

Fig.	Fits Tab Size (Inch)	Material and Finish	PCB Hole Dia. (Inch)	PCB Thickness (Inch)	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
						.250” Series								
1	.250 x .032	Tin Plated Brass	.055	.175	—	—	—	—	A29947CT-ND	98.15	A29947TR-ND	6,000	58.89/M	63650-1
1	.250 x .032	Tin Plated Brass	.055	.125	A24742-ND	1.01	8.91	62409-1	A24742CT-ND	104.53	A24742TR-ND	6,000	62.72/M	62650-1
2	.250 x .032	Tin Plated Brass	.100	.062	A24743-ND	2.79	24.59	63067-1	A24743CT-ND	146.98	A24743TR-ND	4,000	88.19/M	63066-1
						.187” Series								
3	.187 x .020	Pre-Tin Brass	.137	.062	—	—	—	—	A24734CT-ND	101.62	A24734TR-ND	10,000	68.60/M	62221-1
4	.187 x .032	Tin-Plated Brass	.055	.125	—	—	—	—	A24735CT-ND	85.92	A24735TR-ND	10,000	58.00/M	63525-1
						.110” Series								
5	.110 x .020	Tin Brass	.057	.032 -.093	A24840-ND	2.17	19.13	61134-3	—	—	—	—	—	—
6	.110 x .020	Tin Brass	.046	.062	—	—	—	—	A24747CT-ND	64.90	A24747TR-ND	10,000	43.81/M	62395-1

High Temperature Tabs (343°C ~ 371°C)

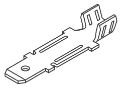

AWG	Material and Finish	Tab Thickness (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
				.312” Series						
15-22	Steel Nickel Plated	.032	A27904CT-ND	18.72	78.01	140.42	A27904TR-ND	3,000	124.82/M	63300-1
				.250” Series						
15-22	Steel Nickel Plated	.032	A27905CT-ND†	17.73	73.89	133.00	A27905TR-ND†	3,000	118.22/M	63301-1

† Dimple instead of a hole

Tab Adapters

Fig. 1

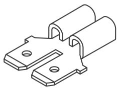

Fig. 2

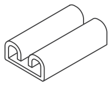

Fig.	Dual Thickness (Inch)	Material and Finish	Fits Tab (Inch)	UR	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
					.250” Series Tab Adapters						
1	.018 - .032	Brass	.032	X	—	A27890-ND	2.58	22.68	96.47	143.60	61765-1
1	.018 - .032	Tin Plated Brass	.032	X	—	A27891-ND	2.89	25.40	108.04	160.82	61765-2
2	—	Tin Plated Brass	.032	—	—	A27892-ND	4.04	35.55	151.21	225.09	61810-2
					.187” Series Tab Adapters						
1	.013 - .020	Tin Plated Brass	.020	X	X	A27903-ND‡	2.23	19.61	83.41	124.16	61045-2

‡ Premilled dual stock thickness

AMP Positive Lock Mark I and II

6/6 Nylon Housing - UL 94V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
			.250" Mark I - 1 Position					
1	Receptacle	Black	A24749-ND§	2.70	23.76	101.07	150.44	520961-1
2	Receptacle	Black	A99649-ND	.76	6.72	28.60	42.57	154719
	Receptacle	Natural	A99656-ND	.96	8.45	35.92	53.47	154719-1
3	Flag	Black	A99683-ND	1.70	14.99	63.74	94.89	926291-1

§ Press-to-release with secondary lock

Fig. 1

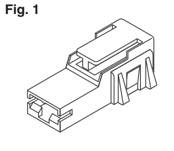

Fig. 2

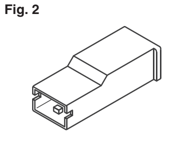

Fig. 3

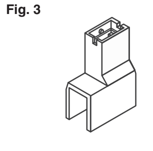

Fig. 4

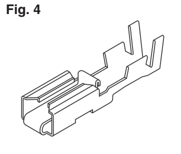

Fig. 5

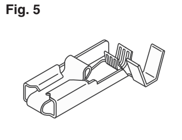

Fig. 6

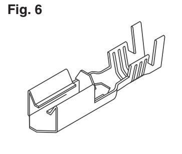

Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Tab Thickness (Inch)	Insulation Diameter (Inch)	Digi-Key Part No.	Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
						.250" Series - Mark I							
4	20-17	.015	Phosphor Bronze	.81	.055 - .090	A99672CT-ND†	17.04	75.17	—	A99672TR-ND	1,500	145.32/M	927852-2
	20-17	.016	Phosphor Bronze/Pre-Tin	.81	.055 - .090	A99673CT-ND†	18.55	81.84	—	A99673TR-ND	1,500	158.23/M	927852-7
	20-17	.015	Phosphor Bronze/Silver	.81	.055 - .090	A99674CT-ND†	47.65	210.21	—	A99674TR-ND	1,500	406.41/M	927852-8
	20-17	.015	Brass	.81	.055 - .090	A99686CT-ND†	11.82	52.16	—	A99686TR-ND	1,500	100.84/M	927852-1
	20-17	.015	Brass/Pre-Tin	.81	.055 - .090	A99687CT-ND†	17.79	78.49	—	A99687TR-ND	1,500	151.74/M	927852-6
	20-16	.015	Brass	.81	.091 - .129	A99650CT-ND†	10.23	45.14	—	A99650TR-ND	1,500	87.26/M	1-160759-1
	20-16	.015	Brass	.81	.091 - .129	—	—	—	—	A99657TR-ND	1,500	102.80/M	160759-1
	20-16	.015	Phosphor Bronze/Tin	.81	.091 - .129	—	—	—	—	A99658TR-ND	1,500	173.86/M	160759-4
	20-16	.016	Copper Alloy/Tin	.81	.091 - .129	A99665CT-ND†	8.94	39.44	—	A99665TR-ND	6,000	76.26/M	281827-2
	20-16	.015	Phosphor Bronze/Pre-Tin	.81	.086 - .129	A99679CT-ND†	16.27	71.77	—	A99679TR-ND	1,500	138.76/M	1-160759-2
	20-15.5	.016	Brass	.81	.090 - .130	A99659-ND	13.98	61.69	109.39	—	—	—	160773-1
	20-15.5	.016	Brass/Tin	.81	.090 - .130	A99660-ND	14.51	64.03	113.54	—	—	—	160773-3
	20-15.5	.016	Phosphor Bronze/Tin	.81	.090 - .130	A99661-ND	22.32	98.48	174.64	—	—	—	160773-4
	20-15.5	.016	Phosphor Bronze/Pre-Tin	.81	.090 - .130	A99662-ND	27.70	122.23	216.75	—	—	—	160773-7
	18-14	.016	Phosphor Bronze/Pre-Tin	.81	.094 - .125	A99655-ND	18.08	79.78	141.47	—	—	—	154718-7
	18-14	.016	Brass/Tin	.032	.094 - .126	A24750CT-ND†	23.02	95.90	172.62	A24750TR-ND	1,500	153.44/M	154718-3
	18-14	.016	Brass	.81	.094 - .125	A99667-ND	21.84	96.35	170.87	—	—	—	341002-1
	18-14	.016	Brass/Pre-Tin	.81	.094 - .125	A99668-ND	17.87	78.84	139.81	—	—	—	341002-6
	18-14	.016	Phosphor Bronze/Tin	.81	.094 - .125	A99680CT-ND†	23.47	103.55	—	A99680TR-ND	1,500	200.20/M	154718-4
	18-14	.016	Brass/Pre-Tin	.81	.094 - .125	—	—	—	—	A99681TR-ND	1,500	107.48/M	154718-6
	17-13.5	.016	Brass/Tin	.81	.118 - .169	A99663CT-ND†	16.69	73.62	—	A99663TR-ND	1,500	142.34/M	160831-3
	17-13.5	.016	Phosphor Bronze/Tin	.81	.118 - .169	A99664CT-ND†	23.00	101.46	—	A99664TR-ND	1,500	196.16/M	160831-4
	17-13.5	.015	Phosphor Bronze	.81	.083 - .122	A99675CT-ND†	15.10	66.63	—	A99675TR-ND	1,500	128.82/M	927854-2
	17-13.5	.016	Phosphor Bronze/Pre-Tin	.81	.083 - .122	A99676CT-ND†	16.88	74.45	—	A99676TR-ND	1,500	143.94/M	927854-7
	17-13.5	.015	Phosphor Bronze/Silver	.81	.083 - .122	A99677CT-ND†	47.69	210.38	—	A99677TR-ND	1,500	406.74/M	927854-8
	17-13.5	.015	Brass/Pre-Tin	.81	.083 - .122	A99688CT-ND†	14.30	63.08	—	A99688TR-ND	1,500	121.95/M	927854-6
	13.5-11	.016	Brass	.81	.141 - .169	A99651CT-ND†	10.58	46.69	—	A99651TR-ND	1,500	90.26/M	154717-1
	13.5-11	.016	Phosphor Bronze/Tin	.81	.141 - .169	A99652-ND	23.31	102.82	182.33	—	—	—	154717-4
	13.5-11	.016	Brass/Pre-Tin	.81	.141 - .169	A99653CT-ND†	11.34	50.03	—	A99653TR-ND	1,500	96.73/M	154717-6
	13.5-11	.016	Phosphor Bronze/Pre-Tin	.81	.141 - .169	A99654CT-ND†	18.27	80.61	—	A99654TR-ND	1,500	155.85/M	154717-7
	13.5-11	.016	Copper Alloy/Tin	.81	.141 - .169	A99666CT-ND†	10.90	48.10	—	A99666TR-ND	6,000	92.99/M	281828-2
	13.5-11	.016	Phosphor Bronze	.81	.130 - .185	A99678-ND	17.94	79.16	140.38	—	—	—	928958-2
	13-11	.016	Brass/Tin	.032	.142 - .169	A24751CT-ND†	20.12	83.84	150.91	A24751TR-ND	1,500	134.14/M	154717-3
	12-10	.016	Brass/Pre-Tin	.81	.135 - .200	A99669CT-ND†	13.76	60.72	—	A99669TR-ND	1,250	117.40/M	790319-3
5	20-15.5	.015	Phosphor Bronze/Pre-Tin	.81	.090 - .130	A99670CT-ND†	21.71	95.78	—	A99670TR-ND	2,000	185.18/M	926820-1
	20-15.5	.015	Phosphor Bronze	.81	.086 - .122	A99671CT-ND†	17.30	76.33	—	A99671TR-ND	2,000	147.57/M	926820-2
						.250" Series - Mark II							
6	18-14	—	Brass/Tin	.032	.090 - .155	A24753CT-ND†	17.21	71.73	114.76	A24753TR-ND	6,000	86.07/M	63097-1
	12-10	—	Brass/Tin	.032	.150 - .200	A24755CT-ND†	20.93	87.19	139.50	A24755TR-ND	6,000	104.63/M	63239-1
						.187" Series - Mark II							
6	24-20	—	Brass/Pre-Tin	.020	.060 - .110	A24757CT-ND†	11.72	48.83	78.12	A24757TR-ND	12,000	52.74/M	63196-2
	20-16	—	Brass/Tin	.020	.090 - .130	A24756CT-ND†	8.35	34.78	55.64	A24756TR-ND	12,000	37.56/M	63195-1

† Cut tape

AMPIP Post-Insulation Pods - Receptacle Housings

Fig. 1

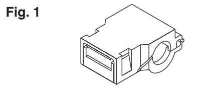

Fig. 2

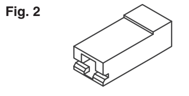

Fig.	Material	Flammability Rating Of Plastic Material	Color	Insulation Max. Dia. (Inch)	Fits Tab Size (Inch)	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
					Flag Style						
1	Nylon	UL 94V-2	Natural	.210	.250	A27908-ND	2.33	20.49	87.13	129.69	1-480307-1
	Nylon	UL 94V-2	Natural	.140 or (2).110	.250	A27909-ND	3.75	32.98	140.26	208.79	1-480306-1
	Nylon	UL 94V-2	Natural	.175	.187	A27911-ND	7.52	66.19	281.51	419.04	1-480487-2
					Straight Style						
2	Nylon	UL 94V-2	Natural	.200	.250	A27912-ND	2.31	20.29	86.30	128.47	1-480416-0
	Nylon	UL 94V-2	Natural	.170	.187	A27914-ND	1.01	8.88	37.78	56.24	1-480435-0

AMP Line Splice Connector

Fig. 1

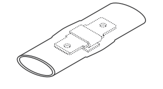

Fig. 2

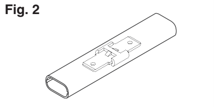

Fig.	Material and Finish	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
1	Plastic Tube over Brass Tab	.250	—	—	A24729-ND	4.19	36.86	156.75	233.34	321235
	Plastic Tube over Tin Plated Brass Tab	.250	X	X	A24730-ND†	5.21	45.82	194.86	290.06	1-321235-1
2	Natural Nylon Housing over Brass Tab	.187	X	—	A24731-ND‡	10.51	92.50	393.41	585.60	360035-1

† Recommended for UL applications ‡ Flammability UL 94V-2 rating of plastic material

AMP Tools

A9796-ND	Tool Die Set 14-26AWG, Ultrafast	**$267.30**
A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$41.10**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices	**$39.03**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**

AMP Ring Tongue Terminals

TERMINYL Ring Tongue

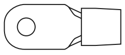

These terminals have been designed to provide insulated terminals and splices for large wire sizes, many of which are used in airborne and ground support applications. **Temperature Rating:** 105°C maximum **Material:** • Insulation: Nylon • Terminal Body: ASTM B-152 • Plating: Tin per MIL-T-10727

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8 Red	8	.478 x 1.425	.256	A27378-ND	2.34	2.06	53041
	10	.431 x 1.402	.256	A27379-ND	2.20	1.94	324043
	1/4	.478 x 1.425	.256	A27380-ND	2.51	2.21	324082
	5/16	.587 x 1.542	.256	A27381-ND	2.56	2.26	324044
	3/8	.587 x 1.542	.256	A27382-ND	2.52	2.21	324045
6 Blue	10	.468 x 1.575	.314	A27383-ND	2.97	2.61	324046
	10	.398 x 1.700	.314	A27384-ND	3.47	3.06	53119-1
	1/4	.500 x 1.700	.314	A27385-ND	2.97	2.61	324047
	5/16	.625 x 1.762	.314	A27386-ND	2.97	2.61	324048
	3/8	.625 x 1.762	.314	A28015-ND	3.06	2.70	324049
4 Yellow	8	.437 x 1.376	.382	A27387-ND	3.86	3.40	331456
	10	.546 x 1.812	.382	A27388-ND	3.93	3.46	324111
	10	.437 x 1.376	.382	A27554-ND	6.02	5.30	1-331456-0
	1/4	.546 x 1.812	.382	A27389-ND	3.59	3.16	324050
	5/16	.679 x 1.878	.382	A27390-ND	3.59	3.16	324051
	3/8	.679 x 1.878	.382	A27391-ND	4.08	3.59	324052
	1/2	.679 x 1.878	.382	A28016-ND	4.12	3.63	324114
2 Red	10	.711 x 2.063	.468	A28017-ND	5.74	5.05	328655
	1/4	.679 x 2.045	.468	A27392-ND	5.10	4.49	324053
	5/16	.711 x 2.063	.473	A27393-ND	5.77	5.07	324112
	3/8	.711 x 2.063	.468	A27394-ND	5.10	4.49	324054
1/0 Blue	1/4	.807 x 2.426	.580	A27395-ND	7.57	6.66	324056
	3/8	.807 x 2.426	.580	A27396-ND	6.95	6.12	324057
2/0 Yellow	3/8	.926 x 2.416	.610	A32019-ND	8.02	7.06	324084

DIAMOND GRIP

These terminals are designed for complete uniform reliability under the most critical conditions of vibrations, thermal shock, corrosion, tensions and current overload. **Material:** • Terminal Body and Metallic Sleeve: Copper per QQ-C-576 • Plating: Tin per MIL-T-10727 **AMP Wire:** Stranded **Temperature Rating:** 170°C maximum

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
26-22	0	.140 x .464	.082	A28038-ND	.54	.47	31516
	2	.140 x .464	.082	A27397-ND	.54	.47	31518
	4	.203 x .585	.082	A28039-ND	.54	.47	31679
	6	.250 x .679	.082	A28040-ND	.54	.47	32861
22-16	4	.218 x .603	.125	A28041-ND	.55	.49	31094
	6	.218 x .603	.125	A27398-ND	.55	.49	31096
	6	.281 x .728	.125	A28042-ND	.54	.47	31269
	6	.281 x .728	.140	A28043-ND	.54	.47	31396
	8	.312 x .775	.125	A27399-ND	.54	.47	30996
	8	.281 x .728	.125	A28045-ND	.54	.47	31270
	8	.281 x .728	.140	A28046-ND	.71	.62	31397
	10	.312 x .775	.125	A27400-ND	.55	.49	30997
	10	.281 x .728	.140	A27401-ND	.54	.47	31398
16-14	6	.250 x .634	.170	A28047-ND	.71	.62	32190
	8	.343 x .790	.170	A28048-ND	.54	.47	30927
	10	.343 x .790	.150	A28049-ND	.55	.49	30993
	10	.343 x .790	.170	A28050-ND	.54	.47	30928
12-10	10	.375 x 1.031	.230	A27402-ND	.67	.59	31771
	1/4	.531 x 1.270	.230	A28051-ND	.76	.67	31772
	3/8	.593 x 1.364	.230	A28052-ND	.78	.69	31828

BUDGET - Ring Tongue

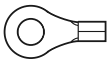

Budget Terminals are primarily the same as SOLISTRAND products except for the absence of the brazed seam in the wire barrel. This terminal is ideal for applications where extreme vibration and tension in the wire are not present.

• **Temperature Rating:** 170°C maximum • **Material:** Terminal & Splice Body: Copper per ASTM B-152. Plating: Tin per MIL-T-10727 • **AMP Wire Range:** 22-16 Stranded, 16-14 Stranded, 12-10 Stranded • **UL Listed**

AWG	Stud Size	Dimensions – Inch W x L	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
26-22	0	.140 x .329	A28255-ND	1.32	11.63	31423
	2	.140 x .329	A27147-ND	1.32	11.63	31425
	2	.203 x .450	A28257-ND	1.32	11.63	33695
	2	.140 x .419	A28256-ND	1.32	11.63	322771
	4	.203 x .450	A27148-ND	1.32	11.63	31428
	6	.203 x .450	A27149-ND	1.32	11.63	31430
	6	.250 x .544	A28258-ND	1.44	12.63	32858
	8	.250 x .544	A28259-ND	1.32	11.63	32859
	10	.250 x .544	A28260-ND	1.32	11.63	32860
22-16	1	.218 x .449	A28261-ND	1.66	14.65	31087
	2	.218 x .449	A28263-ND	1.66	14.65	31088
	2	.182 x .446	A28262-ND	1.66	14.65	320677
	4	.218 x .449	A28265-ND	1.66	14.65	31089
	4	.182 x .446	A28264-ND	1.81	15.92	36189
	4	.250 x .621	A28266-ND	1.66	14.65	322418
	5	.218 x .449	A27150-ND	1.66	14.65	31090
	6	.218 x .449	A28267-ND	1.66	14.65	31091
	6	.281 x .574	A28269-ND	1.66	14.65	31264
	6	.312 x .621	A28270-ND	1.66	14.65	30691
	8	.312 x .621	A28273-ND	1.66	14.65	30692
	8	.281 x .574	A28272-ND	1.66	14.65	31265
	8	.344 x .653	A28274-ND	1.66	14.65	32823
	10	.312 x .621	A28276-ND	1.66	14.65	30693
	10	.281 x .574	A28275-ND	1.66	14.65	31266
	10	.344 x .653	A28277-ND	1.81	15.92	32824
	12	.312 x .621	A28278-ND	1.66	14.65	30694
	1/4	.469 x .856	A27151-ND	2.11	18.58	31172
	5/16	.469 x .856	A28281-ND	1.94	17.11	31173
	5/16	.531 x .995	A28282-ND	4.01	35.25	324124
	3/8	.531 x .995	A28280-ND	4.01	35.25	31498
	1/2	.713 x 1.070	A28279-ND	5.70	50.19	328970
16-14	2	.180 x .445	A28284-ND	1.66	14.65	326854
	4	.250 x .480	A28285-ND	1.66	14.65	32185
	6	.343 x .636	A28286-ND	1.66	14.65	30695
	6	.250 x .480	A28287-ND	1.66	14.65	32186
	6	.312 x .590	A28288-ND	1.66	14.65	321683
	8	.343 x .636	A28289-ND	1.66	14.65	30696
	8	.312 x .590	A28290-ND	1.66	14.65	322235
	10	.312 x .621	A28291-ND	1.66	14.65	51872-5
	10	.343 x .636	A27152-ND	1.66	14.65	30697
	12	.469 x .855	A28292-ND	1.94	17.11	31163
	14	.468 x .730	A28293-ND	1.94	17.11	34896
	1/4	.469 x .855	A28294-ND	1.94	17.11	31164
	5/16	.469 x .855	A28295-ND	1.94	17.11	31165
	3/8	.531 x .995	A28296-ND	4.01	35.25	31499
	1/2	.713 x 1.070	A28297-ND	5.70	50.19	328971
12-10	4	.281 x .630	A28299-ND	2.45	21.52	34891
	6	.281 x .630	A28300-ND	2.45	21.52	34892
	6	.375 x .765	A28301-ND	2.45	21.52	31112
	8	.312 x .708	A28302-ND	2.45	21.52	34404
	8	.375 x .765	A28303-ND	2.45	21.52	31113
	10	.343 x .723	A28304-ND	2.45	21.52	32882
	10	.375 x .765	A27153-ND	2.45	21.52	31114
	10	.500 x .865	A28305-ND	2.81	24.70	34964
	1/4	.500 x .865	A28307-ND	2.81	24.70	34965
	1/4	.531 x 1.004	A28308-ND	2.81	24.70	31122
	5/16	.531 x 1.004	A28312-ND	2.81	24.70	31123
	3/8	.593 x 1.098	A28309-ND	2.81	24.70	30972
	3/8	.750 x 1.271	A28310-ND	5.63	49.54	34833
	1/2	.715 x 1.102	A28306-ND	5.63	49.54	52269-1

A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A9991-ND	Die Set for for PIDG and PLASTI-GRIP™ R, B, and Y Insulated Terminals, use with A9996-ND	**$49.68**
A9811-ND	Crimp Tool with Die Set for PIDG and PLASTI-GRIP™ R, B, and Y Insulated Terminals	**$90.72**
A9821-ND	PIDG and PLASTI-GRIP™ Connector Kit	**$154.62**
A31882-ND	PRO-CRIMPER II™ Hand Tool, 22-10AWG, with Die	**$757.35**
A31883-ND	Die Set for Budget Terminal and Butt Splice, 22-10AWG, use with A9996-ND	**$707.40**

Tyco Electronics
Authorized Distributor

AMP Solistrand Ring Tongue Terminals

RoHS COMPLIANT

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Fig. 1

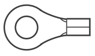

Fig. 2

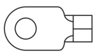

Temperature Rating: 170°C maximum

Material: • Terminal Body: copper per ASTM B-152
• Plating: Tin per MIL-T-10727

UL Listed. CSA Certified. Military Approval.

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
1	26-22	2	.140 x .419	A27000-ND	8.55	75.20	50334
	22-16	2	.182 x .446	A27002-ND	2.85	25.05	322927
	22-16	2	.218 x .449	A27001-ND	2.94	25.84	34103
	22-16	4	.182 x .446	A27003-ND	2.34	20.61	36467
	22-16	4	.218 x .449	A0914-ND	2.22	19.58	34104
	22-16	4	.250 x .621	A28055-ND	3.81	33.53	323096
	22-16	6	.218 x .449	A0915-ND	1.51	13.28	34105
	22-16	6	.281 x .574	A27006-ND	2.16	18.98	34107
	22-16	6	.312 x .621	A27008-ND	2.22	19.58	34110
	22-16	8	.281 x .574	A0916-ND	2.16	18.98	34108
	22-16	8	.312 x .621	A27009-ND	2.16	18.98	34111
	22-16	10	.281 x .574	A0917-ND	2.16	18.98	34109
	22-16	10	.312 x .621	A27012-ND	2.22	19.58	34112
	22-16	10	.344 x .653	A27015-ND	4.01	35.32	323087
	22-16	1/4	.469 x .856	A0918-ND	2.52	22.19	34113
	22-16	1/2	.713 x 1.070	A27019-ND	6.48	57.00	329966
	22-16	5/16	.469 x .856	A0919-ND	2.60	22.90	34114
	22-16	3/8	.531 x .995	A0920-ND	2.68	23.59	34115
	16-14	4	.250 x .480	A27020-ND	1.11	9.81	34119
	16-14	6	.343 x .636	A27021-ND	2.82	24.85	34121
	16-14	6	.250 x .480	A0921-ND	2.16	18.97	34120
	16-14	6	.312 x .590	A27023-ND	2.22	19.58	321684
	16-14	8	.343 x .636	A0922-ND	2.16	18.98	34122
	16-14	8	.343 x .723	A27154-ND‡	4.69	41.28	35432
	16-14	8	.312 x .590	A27025-ND	3.11	27.34	324955
	16-14	10	.343 x .636	A0923-ND	1.51	13.28	34123
	16-14	10	.312 x .669	A27028-ND	2.94	25.84	320093
	16-14	10	.343 x .723	A27155-ND‡	3.91	34.40	34567
	16-14	1/4	.469 x .855	A0924-ND	2.52	22.19	34124
	16-14	1/4	.500 x .865	A27157-ND‡	5.11	44.94	35775
	16-14	1/2	.750 x 1.184	A27031-ND	6.48	57.00	50981
	16-14	1/2	.750 x 1.271	A27160-ND‡	8.95	78.72	321165
	16-14	5/16	.469 x .855	A0925-ND	2.60	22.90	34125
	16-14	5/16	.500 x .865	A27158-ND‡	5.79	50.95	35776
	16-14	3/8	.531 x .995	A0152-ND	3.20	28.12	34126
	16-14	3/8	.750 x 1.271	A27159-ND‡	8.59	75.58	327732
2	14-12	10	.421 x .739	A27032-ND	3.74	32.89	34484
	14-12	10	.312 x .685	A27033-ND	2.93	25.75	321828
	14-12	3/8	.687 x 1.120	A27034-ND	10.58	93.10	34486
1	12-10	4	.281 x .630	A27035-ND	2.88	25.34	322447
	12-10	6	.281 x .630	A0926-ND	2.97	26.14	35476
	12-10	6	.375 x .765	A27036-ND	2.84	25.02	33456
	12-10	8	.312 x .708	A27038-ND	3.90	34.36	322454
	12-10	8	.375 x .765	A0927-ND	2.88	25.34	32994
	12-10	10	.343 x .723	A27040-ND	3.78	33.25	322455
	12-10	10	.375 x .765	A0928-ND	1.47	12.93	33457
	12-10	10	.375 x .808	A27042-ND	8.36	73.56	31805
	12-10	10	.500 x .865	A27043-ND	3.50	30.83	35771
	12-10	1/4	.500 x .865	A27045-ND	2.26	19.87	35772
	12-10	1/4	.531 x 1.004	A0929-ND	2.31	20.37	33458
	12-10	5/16	.531 x 1.004	A0930-ND	2.39	21.01	33459
	12-10	3/8	.593 x 1.098	A0931-ND	3.41	30.02	33220
	12-10	1/2	.750 x 1.271	A27049-ND	6.35	55.92	35135
	12-10	1/2	1.250 x 1.896	A27050-ND	24.87	218.85	320763
	12-10	5/8	1.250 x 1.896	A27051-ND	24.87	218.85	320764
	12-10	1	1.250 x 1.896	A27052-ND	28.21	248.28	1-320765-0
	8	8	.406 x .949	A27053-ND	6.60	58.07	324061
	8	8	.469 x .933	A27054-ND	6.40	56.28	32996
	8	10	.469 x .933	A27055-ND	4.48	39.40	33460
	8	10	.406 x .949	A27057-ND	4.62	40.65	31807
	8	1/4	.469 x .933	A27059-ND	3.77	33.19	33461
	8	1/4	.594 x 1.168	A27061-ND	8.75	77.02	35247
	8	5/16	.594 x 1.168	A27062-ND	6.13	53.92	33462
	8	5/16	.562 x 1.074	A27063-ND	7.17	63.09	31808
	8	3/8	.594 x 1.168	A27064-ND	6.32	55.63	33463
	8	1/2	1.250 x 1.965	A27065-ND	12.07	106.18	35664
	8	5/8	1.250 x 1.965	A27066-ND	14.43	126.95	35665
	6	10	.406 x 1.181	A27067-ND	9.53	83.87	52197
	6	10	.625 x 1.246	A27069-ND	9.53	83.87	33464
	6	10	.468 x 1.168	A27070-ND	6.88	60.58	321298
	6	1/4	.625 x 1.246	A27071-ND	4.93	43.40	33465
	6	1/4	.468 x 1.168	A27073-ND	5.62	49.47	321598
	6	5/16	.625 x 1.246	A27074-ND	5.62	49.47	33466
	6	1/2	.875 x 1.840	A27077-ND	17.09	150.43	320344
	6	1/2	1.250 x 2.033	A27078-ND	27.27	239.98	36808
	6	5/8	1.250 x 2.033	A27079-ND	18.22	160.37	36809
	6	3/4	1.250 x 2.033	A27080-ND	19.80	174.23	36810
	4	10	.656 x 1.314	A27081-ND	13.62	119.81	33468
	4	10	.500 x 1.199	A27082-ND	14.05	123.63	33114
	4	1/4	.656 x 1.314	A27083-ND	7.78	68.49	33469
1	4	1/4	.500 x 1.199	A27084-ND	9.83	86.54	31811
	4	5/16	.656 x 1.314	A27085-ND	7.78	68.49	33470
	4	5/16	.625 x 1.324	A27086-ND	13.21	116.29	33115
	4	3/8	.656 x 1.314	A27087-ND	9.53	83.87	33471
	4	3/8	.625 x 1.324	A27088-ND	18.81	165.52	31812
	4	1/2	1.250 x 2.090	A27089-ND	21.87	192.45	35668
	4	1/2	.875 x 1.902	A27090-ND	22.57	198.58	327175
	4	3/4	1.250 x 2.090	A27092-ND	39.74	349.74	35670
	2	1/4	.890 x 1.657	A27095-ND	23.44	206.28	320138
	2	5/16	.890 x 1.657	A27096-ND	25.61	225.34	35183
	2	3/8	.890 x 1.657	A27099-ND	16.41	144.45	35184
	2	7/16	.890 x 1.657	A27100-ND	23.72	208.74	320741
	2	1/2	.890 x 1.657	A27101-ND	25.61	225.34	35185
	2	1/2	1.250 x 2.516	A27102-ND	76.28	671.30	323291
	2	5/8	1.250 x 2.516	A27103-ND	74.32	654.02	320754
2	2	10	.625 x 1.527	A27093-ND	28.39	249.85	330301
	2	1/4	.625 x 1.527	A27094-ND	16.93	148.99	320383
	2	5/16	.625 x 1.527	A27097-ND	12.60	110.91	322870
	2	3/8	.625 x 1.527	A27098-ND	14.34	126.23	321600
1	1/0	1/4	.875 x 1.956	A27104-ND	35.99	316.67	36915
	1/0	1/4	.807 x 1.925	A27105-ND	25.99	228.73	321866
	1/0	5/16	.875 x 1.956	A27106-ND	25.19	221.67	36916
	1/0	5/16	.807 x 1.925	A27107-ND	37.13	326.75	321867
	1/0	3/8	.875 x 1.956	A27108-ND	25.39	223.47	36917
	1/0	3/8	.807 x 1.925	A27109-ND	25.99	228.73	321868
	1/0	7/16	.875 x 1.956	A27110-ND	60.43	531.75	36918
	1/0	1/2	.875 x 1.956	A27111-ND	25.99	228.73	36919
	1/0	1/2	1.265 x 2.678	A27112-ND	54.15	476.50	322291
	1/0	5/8	1.265 x 2.678	A27113-ND	73.06	642.90	320744
	1/0	3/4	1.265 x 2.678	A27114-ND	73.06	642.90	320748
	2/0	1/4	.946 x 2.000	A27115-ND	45.46	400.07	36921
	2/0	5/16	.926 x 1.930	A27116-ND	46.91	412.80	321870
	2/0	5/16	.946 x 2.000	A27117-ND	45.46	400.07	36922
	2/0	3/8	.926 x 1.930	A27118-ND	32.84	288.96	321871
	2/0	3/8	.946 x 2.000	A27119-ND	31.82	280.05	36923
	2/0	1/2	.926 x 1.930	A27120-ND	46.91	412.80	321873
	2/0	1/2	.946 x 2.000	A27121-ND	31.82	280.05	36925
	2/0	5/8	1.270 x 2.671	A27122-ND	103.97	914.96	322224
2	3/0	5/16	1.020 x 2.112	A27123-ND	83.36	733.61	321874
	3/0	3/8	1.020 x 2.112	A27124-ND	53.44	470.27	321875
	3/0	3/8	1.082 x 2.143	A27125-ND	41.79	367.76	36927
	3/0	1/2	1.020 x 2.112	A27128-ND	83.36	733.61	321877
1	4/0	3/4	1.275 x 2.732	A27137-ND	168.42	1482.12	322228
2	4/0	5/16	1.150 x 2.537	A27130-ND	83.23	732.40	321271
	4/0	3/8	1.150 x 2.206	A27131-ND	47.27	415.95	36932
	4/0	3/8	1.087 x 2.178	A27132-ND	48.64	428.00	321878
	4/0	1/2	1.087 x 2.178	A27133-ND	70.08	616.69	321880
	4/0	1/2	1.150 x 2.206	A27134-ND	50.80	447.05	36934
	4/0	5/8	1.150 x 2.206	A27135-ND	91.77	807.57	36935
	250-300 MCM	3/8	1.435 x 2.602	A27138-ND	115.68	1018.03	322252
	250-300 MCM	7/16	1.435 x 2.602	A27139-ND	115.68	1018.03	322253
	250-300 MCM	1/2	1.435 x 2.602	A27140-ND	111.18	978.38	322254
	300-350 MCM	1/2	1.545 x 2.671	A27141-ND	128.81	1133.55	322259
	300-350 MCM	1/2	1.545 x 3.422	A28760-ND	183.65	1616.16	322764
	400 MCM	3/8	1.749 x 2.790	A27142-ND	153.13	1347.51	322262
	400 MCM	1/2	1.749 x 2.790	A27143-ND	164.90	1451.15	322264
	500-600 MCM	3/8	2.015 x 3.187	A27144-ND	216.14	1901.99	322267
	500-600 MCM	1/2	2.015 x 3.187	A27145-ND	342.94	3017.89	322269

‡ Heavy Duty

Cut Tape and Tape and Reel Product

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Tape and Reel† Qty.	Tape and Reel† Pricing	AMP Part No.
1	22-16	4	.250 x .621	A28055CT-ND	—	259.35	5,000	207.48/M	2-323096-2
	22-16	6	.218 x .449	A0915CT-ND	—	233.98	5,000	187.18/M	2-34105-2
	22-16	10	.312 x .621	A27012CT-ND	—	141.90	5,000	113.52/M	2-34112-2
	22-16	1/4	.469 x .856	A0918CT-ND	—	224.40	5,000	179.52/M	2-34113-2
	16-14	6	.250 x .480	A0921CT-ND	—	392.93	5,000	314.34/M	2-34120-1
	16-14	8	.343 x .636	A0922CT-ND	—	196.48	5,000	157.18/M	2-34122-1
	16-14	8	.312 x .590	A27025CT-ND	—	194.05	5,000	155.24/M	2-324955-1
	16-14	10	.343 x .636	A0923CT-ND	—	137.50	5,000	110.00/M	2-34123-1
	12-10	10	.375 x .765	A0928CT-ND	113.84	206.98	2,500	165.58/M	2-33457-2
	12-10	1/4	.531 x 1.004	A0929CT-ND	156.83	285.15	2,500	228.12/M	2-33458-3

† For Tape and Reel part number, change CT-ND to TR-ND.

Tools

A27223-ND	Crimp Tool for all Solistrand (except flag tongue terminals)	**$246.00**
A9996-ND	PRO-CRIMPER II™ Hand Tool without Dies	**$45.36**
A9813-ND	Die Set for Uninsulated Terminals, use with A9996	**$89.59**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$101.36**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$41.10**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**

AMP Solistrand™ Terminals and Splices

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C maximum Material: • Terminal Body: copper per ASTM B-152 • Plating: Tin per MIL-T-10727 UL Listed. CSA Certified. Military Approval.

Uninsulated Ring Tongue and Splices: Temperature Rating: 343°C Material: • Terminal and Splice Body: Copper per QQ-C-576 • Plating: Nickel per QQ-N-290 • Metallic Sleeve: Nickel/Silver per QQ-C-585

Parallel Splices: Material: • Splice Body: Copper per ASTMB-152

Fig. 1

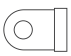

Fig. 2

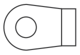

Fig. 3

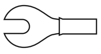

Fig. 4

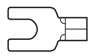

Fig. 5

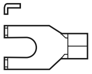

Fig. 6

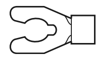

Fig. 7

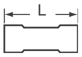

Fig. 8

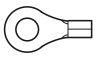

Fig. 9

Fig. 10

Parallel Splice

Fig. 11

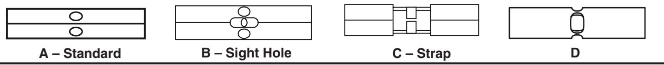

A – Standard
B – Sight Hole
C – Strap
D

Flag Ring Tongue Terminals

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	16-14	8	.312 x .579	A28056-ND	1.11	.98	325069
	16-14	10	.312 x .579	A27177-ND	.99	.87	322819
	12-10	6	.375 x .702	A28057-ND	1.26	1.11	36269
	12-10	8	.375 x .702	A27178-ND	1.30	1.14	36270
	12-10	10	.375 x .702	A27179-ND	.92	.81	36271
	12-10	1/4	.375 x .702	A28058-ND	1.24	1.09	36272
2	8	10	.500 x .918	A28060-ND	4.02	3.54	321441
	8	1/4	.609 x 1.130	A28061-ND	2.38	2.10	322727
1	6	10	.500 x .841	A27180-ND	2.07	1.82	323196
	6	1/4	.500 x .960	A27181-ND	2.45	2.15	321576
2	6	3/8	.625 x 1.200	A27182-ND	6.57	5.78	322204
1	4	10	.546 x 1.048	A27183-ND	3.43	3.02	321059
	4	1/4	.546 x 1.048	A27184-ND	3.43	3.02	321275
2	4	5/16	.682 x 1.278	A27185-ND	3.26	2.87	321060
2	2	10	.713 x 1.437	A27186-ND	5.48	4.82	321063
	2	1/4	.713 x 1.437	A27187-ND	9.41	8.28	321201
	2	5/16	.713 x 1.437	A27188-ND	3.29	2.90	321064

Slotted Ring Tongue

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16	4	.182 x .425	A28614-ND	.37	.33	321288

Spade Terminals

Fig.	Stud Size	Dimensions - Inch W x L	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
22-16 AWG						
4	2	.182 x .504	A0932-ND	3.42	30.10	53555-1
	4	.218 x .451	A09000-ND	4.05	35.67	321463
	6	.297 x .530	A09001-ND†	2.16	18.98	36195
	6	.250 x .623	A0933-ND‡	2.13	18.74	323127
	8	.375 x .685	A0934-ND	2.34	20.61	34117
	10	.375 x .685	A0935-ND	2.16	18.98	34118
5	2	.182 x .504	A0939-ND	2.58	22.68	324605
	6	.296 x .514	A0940-ND‡	2.58	22.68	320749
	6	.250 x .514	A09006-ND†	2.58	22.68	323136
	8	.296 x .514	A0941-ND†	2.58	22.68	52730
	8	.416 x .607	A09007-ND‡	2.37	20.87	323124
6	4	.203 x .576	A0943-ND	2.80	24.65	53175-1
	8	.244 x .637	A09005-ND	3.04	26.78	53831-1
16-14 AWG						
4	6	.297 x .530	A09002-ND	2.16	18.98	322996
	6	.244 x .623	A27163-ND	4.55	40.02	330827
	8	.385 x .685	A09003-ND	2.81	24.74	34128
	10	.385 x .764	A27164-ND	2.85	25.05	33219
	10	.385 x .685	A09004-ND	2.34	20.61	34129
5	6	.294 x .514	A09008-ND	2.58	22.68	320855
	8	.294 x .514	A0942-ND	2.58	22.68	320856
	10	.294 x .514	A09009-ND	2.58	22.68	320857
6	8	.375 x .637	A0946-ND	2.80	24.65	53124-1
12-10 AWG						
4	6	.282 x .631	A0936-ND	4.00	35.21	322451
	8	.406 x .772	A0937-ND	2.84	25.02	32995
	10	.406 x .772	A27165-ND	2.88	25.33	33479
	10	.375 x .772	A0938-ND	4.72	41.50	35495
6	6	.250 x .636	A0948-ND	3.62	31.82	53126-1
	8	.375 x .729	A0949-ND	3.93	34.57	53127-1
Flanged Spade Tongue						
12-10 AWG						
5	6	.296 x .694	A28062-ND	4.18	36.78	324578
	10	.416 x .694	A28063-ND	4.18	36.78	323144

† Short ‡ Long

Short Spring Spade Tongue

Fig.	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Tape and Reel† Qty.	Tape and Reel† Pricing
22-16 AWG										
6	6	.250 x .576	A0944-ND	.31	.27	A0944CT-ND	—	245.65	5,000	196.52/M
16-14 AWG										
6	6	.250 x .576	A0945-ND	.28	.25	—	—	—	—	—
	10	.406 x .685	A0947-ND	.28	.25	A0947CT-ND	—	245.65	5,000	196.52/M
12-10 AWG										
6	8	.312 x .729	A27170-ND	.37	.32	—	—	—	—	—
	10	.406 x .777	A0950-ND	.37	.32	—	—	—	—	—
	10	.312 x .777	A28064-ND	.37	.32	A28064CT-ND	169.74	308.63	2,500	246.90/M

† For Tape and Reel part number, change CT-ND to TR-ND.

Parallel Splices

Fig.	Wire Size	Dimension - Inch Length	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
7	22-16 AWG	.301	A27193-ND	1.42	12.54	34130
	16-14 AWG	.301	A27194-ND	1.42	12.54	34137
	12-10 AWG	.343	A27195-ND	1.81	15.95	34138
	8 AWG	.375	A27196-ND	3.56	31.36	34318
	6 AWG	.437	A27197-ND	6.07	53.40	34319
	4 AWG	.531	A27198-ND	11.27	99.20	34320
	1/0 AWG	.734	A27200-ND	20.36	179.20	36946
	4/0 AWG	.765	A27203-ND	34.10	300.04	36951

Uninsulated Ring Tongue — Solistrand™ and Diamond Grip™

Fig.	AWG	Stud Size	Dimension - Inch W x L	Insulation Support For	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8	22-16	4	.218 x .624	.105 ~ .140	A27403-ND	1.15	1.01	322363
	22-16	6	.281 x .749	.105 ~ .140	A27404-ND	1.77	1.56	323199
	22-16	6	.281 x .574	Non-Insulation	A28053-ND	.52	.46	323219
	22-16	6	.218 x .449	Non-Insulation	A27405-ND	.56	.50	322797
	22-16	8	.281 x .574	Non-Insulation	A27406-ND	.57	.50	322798
	22-16	10	.281 x .749	.105 ~ .140	A27407-ND	1.15	1.01	322366
	22-16	10	.281 x .574	Non-Insulation	A27408-ND	.57	.50	322799
	16-14	10	.343 x .811	.120 ~ .170	A27409-ND	1.87	1.64	322375
	16-14	10	.343 x .636	Non-Insulation	A27410-ND	.46	.40	322695
	12-10	8	.375 x .765	Non-Insulation	A27411-ND	.86	.76	323061
	12-10	10	.375 x 1.03	.150 ~ .250	A27412-ND	2.07	1.82	325154
	12-10	10	.375 x .765	Non-Insulation	A27413-ND	.61	.53	323062
	12-10	1/4	.531 x 1.004	Non-Insulation	A27414-ND	1.10	.97	323063

Uninsulated Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
9	22-16	.578	A27487-ND	.72	.64	323796
10	22-16	.301	A27488-ND	.54	.48	323030
9	16-14	.572	A27489-ND	.72	.64	323795
10	16-14	.301	A27490-ND	.54	.48	323794
9	12-10	.567	A28054-ND	.96	.85	323755
10	12-10	.333	A27491-ND	.58	.51	323754
10	12-10	.333	A29335-ND*	1.61	1.42	323672
10	16-14	.301	A29336-ND*	1.21	1.07	322347

* High Temperature

Butt Splices

Fig.	Wire Size	Length Inch	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
11C	26-22 AWG	.385	A09010-ND	4.10	36.07	321198
11C	24-20 AWG	.490	A09011-ND	3.19	28.05	324001
11A	22-16 AWG	.578	A0951-ND	2.06	18.11	31818
11B	22-16 AWG	.578	A09012-ND	5.85	51.47	330367
11A	16-14 AWG	.567	A0952-ND	4.10	36.07	31819
11B	16-14 AWG	.567	A09014-ND	6.46	56.85	330368
11C	16-14 AWG	.591	A27207-ND	4.00	35.22	322459
11C	16-14 AWG	.591	A09013-ND	5.03	44.24	327025
11C	16-14 AWG	.529	A29337-ND*	15.41	135.62	323878
11B	14-12 AWG	.690	A27209-ND	9.57	84.26	321280
11A	12-10 AWG	.565	A0953-ND	3.90	34.31	32151
11B	12-10 AWG	.567	A09015-ND	5.99	52.75	330369
11C	12-10 AWG	.765	A27210-ND	5.44	47.88	324893
11C	12-10 AWG	.703	A29338-ND*	28.97	254.94	323698
11A	8 AWG	.827	A27211-ND	6.95	61.18	34321
11B	8 AWG	.827	A27212-ND	11.15	98.14	36906
11A	6 AWG	1.015	A27213-ND	16.11	141.75	34322
11B	6 AWG	1.015	A27214-ND	25.00	220.00	36886
11A	4 AWG	1.140	A27215-ND	29.30	257.80	34323
11A	2 AWG	1.265	A27216-ND	26.63	234.30	35189
11B	2 AWG	1.265	A27217-ND	65.35	575.11	322246
11D	1/0 AWG	1.412	A27218-ND	58.62	515.89	36957
11D	2/0 AWG	1.437	A27219-ND	69.50	611.60	36958
11D	3/0 AWG	1.480	A27220-ND	82.77	728.41	36959
11D	4/0 AWG	1.484	A27221-ND	62.71	551.84	36960
11D	250-300 MCM	2.093	A27222-ND	114.56	1008.11	322279

* High Temperature

Tools

A27223-ND	(49935) Crimp Tool for all Solistrand (except Flag Tongue Terminals) 10-22 AWG	**$246.00**
A99797-ND	(69363) Crimp Tool for Solistrand (except Flag Tongue Terminals) 26-20 AWG	**$430.56**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$45.36**
A9813-ND	Die Set for Solistrand Butt Splices 22-10 AWG, use with A9996-ND	**$89.59**
A9812-ND	Crimp Tool with Die for Solistrand Butt Splices 22-10 AWG	**$101.36**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$41.10**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$91.65**

AMP Rings, Spades, Pins, Receptacles, Splices and Tabs

Fig.	Stud Size	Wire AWG	Insulation Diameter (Inch)	Material/Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Ring, Insulation Support												
1	#6	22-18	0.06-0.11	Brass/Tin	A29864CT-ND	17.51	80.23	145.88	A29864TR-ND	20,000	78.78/M	40697
	#8	22-18	0.06-0.11	Brass/Tin	A29865CT-ND	17.51	80.23	145.88	A29865TR-ND	10,000	78.78/M	40698
	#8	18-14	0.1-0.14	Brass/Tin	A29866CT-ND	9.17	42.03	76.43	A29866TR-ND	11,000	41.27/M	40724
	#10	18-14	0.1-0.14	Brass/Tin	A29867CT-ND	9.93	45.50	82.73	A29867TR-ND	11,000	44.68/M	40725
	5/16	22-18	.07-.10	Brass/Tin	A29868CT-ND	24.43	111.95	203.55	A29868TR-ND	10,000	162.84/M	41013
	#10	12-10	0.15-0.21	Brass/Tin	A29869CT-ND	18.99	87.02	158.23	A29869TR-ND	3,000	126.58/M	41124
	#8	18-14	0.12-0.17	Brass/Tin	A29870CT-ND	7.51	34.42	62.58	A29870TR-ND	12,500	33.80/M	41332
	#10	18-14	0.12-0.17	Brass/Tin	A29871CT-ND	6.50	29.78	54.15	A29871TR-ND	12,500	29.25/M	41333
	.156	20-16	0.1-0.135	Brass/Tin	A29872CT-ND	10.86	49.78	90.50	A29872TR-ND	25,000	48.87/M	41472
	#6	24-20	0.08-0.1	Brass/Tin	A29873CT-ND	8.57	39.30	71.45	A29873TR-ND	7,500	42.88/M	41580
	#8	24-20	0.08-0.1	Brass/Tin	A29874CT-ND	13.99	64.10	116.55	A29874TR-ND	15,000	69.93/M	41581
	1/4	22-18	0.07-0.1	Brass/Tin	A29875CT-ND	17.10	78.38	142.50	A29875TR-ND	6,000	85.50/M	41711
	#10	22-18	0.08-0.11	Brass	A29876CT-ND	17.23	78.97	143.58	A29876TR-ND	20,000	77.54/M	42036-2
	#6	22-18	0.08-0.11	Brass/Tin	A29877CT-ND	17.51	80.23	145.88	A29877TR-ND	20,000	78.78/M	42037
	#8	22-18	0.08-0.11	Brass/Tin	A29878CT-ND	5.88	26.96	49.03	A29878TR-ND	20,000	26.48/M	42037-1
	#10	22-18	0.08-0.11	Brass/Tin	A29879CT-ND	7.08	32.45	59.00	A29879TR-ND	20,000	31.86/M	42037-2
	#8	24-20	0.048-0.078	Brass/Tin	A29880CT-ND	12.94	59.30	107.83	A29880TR-ND	20,000	58.23/M	42508-2
	#4	26-22	0.04-0.06	Brass/Tin	A29881CT-ND	10.07	46.16	83.93	A29881TR-ND	20,000	45.32/M	42547-2
	.257	16-14	0.12-0.18	Brass	A29882CT-ND	28.53	130.76	237.75	A29882TR-ND	4,000	142.65/M	42751-1
	.323	16-14	0.12-0.18	Brass/Tin	A29883CT-ND	19.23	88.15	160.28	A29883TR-ND	4,000	96.17/M	42752-2
	.142	26-20	0.048-0.078	Brass/Tin	A29884CT-ND	11.65	53.41	97.10	A29884TR-ND	12,000	52.44/M	60123-2
	#10	18-14	0.1-0.14	Brass/Tin	A29885CT-ND	15.62	71.57	130.13	A29885TR-ND	11,000	70.27/M	60433-2
	#6	24-20	0.048-0.078	Brass/Tin	A29886CT-ND	16.65	76.30	138.73	A29886TR-ND	20,000	74.92/M	60553-1
	1/4	18-14	0.1-0.14	Brass/Tin	A29887CT-ND	10.14	46.48	84.50	A29887TR-ND	11,000	45.63/M	60625-1
	#6	18-14	0.1-0.14	Brass/Tin	A29888CT-ND	15.27	69.99	127.25	A29888TR-ND	12,000	76.35/M	60770-2
	#8	18-14	0.1-0.14	Brass	A29889CT-ND	10.31	47.26	85.93	A29889TR-ND	6,000	51.56/M	60771-1
	#8	18-14	0.1-0.14	Brass/Tin	A29890CT-ND	7.22	33.07	60.13	A29890TR-ND	12,000	32.47/M	60771-2
	#10	18-14	0.1-0.14	Brass/Tin	A29891CT-ND	6.66	30.54	55.53	A29891TR-ND	12,000	29.99/M	60772-2
	#10	18-14	0.1-0.14	Brass/Tin	A29892CT-ND	7.38	33.81	61.48	A29892TR-ND	8,000	36.89/M	60772-3
	3/8	16-14	0.12-0.18	Brass/Tin	A29893CT-ND	41.73	191.28	347.78	A29893TR-ND	2,500	278.22/M	61336-1
	#4	20-16	0.1-0.135	Brass/Tin	A29894CT-ND	10.86	49.78	90.50	A29894TR-ND	25,000	48.87/M	61386-1
	.094	26-24	0.035-0.065	Brass	A29895CT-ND	2.81	12.90	23.45	A29895TR-ND	50,000	11.73/M	61653-1
	1/4	18-14	0.085-0.12	Brass/Tin	A29897CT-ND	19.24	88.18	160.33	A29897TR-ND	3,000	128.26/M	485029-1
2	.177	22-16	0.105	Brass	A29896CT-ND	19.83	90.87	165.23	A29896TR-ND	6,000	99.14/M	350509-1
	.177	22-16	0.1-0.14	Steel/Tin	A29898CT-ND	10.97	50.26	91.38	A29898TR-ND	10,000	73.10/M	61556-1
	#8	16-12	0.13-0.17	Brass	A29899CT-ND	9.97	45.69	83.08	A29899TR-ND	9,000	49.85/M	61624-1
	#6	18-14	0.105-0.145	Steel/Tin	A29900CT-ND	7.40	33.91	61.65	A29900TR-ND	9,000	36.99/M	61793-1
	#8	18-14	0.105-0.145	Steel/Tin	A29901CT-ND	5.00	22.91	41.65	A29901TR-ND	9,000	24.99/M	61794-1
	#8	18-14	0.105-0.145	Brass	A29902CT-ND	12.24	56.09	101.98	A29902TR-ND	9,000	61.19/M	61794-4
	#10	18-14	0.105-0.145	Steel/Tin	A29903CT-ND	5.00	22.91	41.65	A29903TR-ND	9,000	24.99/M	61795-1
	#10	18-14	0.105-0.145	Brass/Tin	A29904CT-ND	8.23	37.70	68.55	A29904TR-ND	9,000	41.13/M	61795-3
	#10	12-10	0.125-0.22	Steel/Tin	A29905CT-ND	16.37	75.05	136.45	A29905TR-ND	1,800	109.17/M	62613-2
	#8	18-14	0.105-0.145	Steel	A29906CT-ND	13.66	62.59	113.80	A29906TR-ND	6,000	68.28/M	640051-1
	#10	18-14	0.105-0.145	Steel	A29907CT-ND	8.15	37.35	67.90	A29907TR-ND	6,000	40.74/M	640052-1
	#8	22-18	0.08-0.12	Steel/Tin	A29908CT-ND	11.78	53.97	98.13	A29908TR-ND	9,000	58.88/M	640204-1
	#10	22-18	0.08-0.12	Tin	A31703CT-ND	15.76	72.24	131.35	A31703TR-ND	7,500	70.93/M	640271-3
Ring, Non-Insulation Support												
3	#8	18-14	—	Brass	A29910CT-ND	10.08	46.20	84.00	A29910TR-ND	20,000	45.36/M	34812
	#10	12-10	—	Brass/Tin	A29911CT-ND	13.71	62.82	114.23	A29911TR-ND	8,000	68.54/M	40524
	.096	22-20	0.05-0.065	Brass/Tin	A29912CT-ND	10.51	48.17	87.58	A29912TR-ND	25,000	47.30/M	41376
Fork, Insulation Support												
4	#6	20-16	0.09-0.13	Brass/Tin	A29913CT-ND	17.81	81.65	148.45	A29913TR-ND	15,000	80.17/M	40763
	#10	24-20	0.08-0.1	Brass/Tin	A29914CT-ND	17.37	79.61	144.75	A29914TR-ND	15,000	78.17/M	41590
	#6	24-20	0.048-0.078	Brass/Tin	A29915CT-ND	11.24	51.49	93.63	A29915TR-ND	25,000	50.56/M	60445-2
	#10	24-20	0.048-0.078	Brass/Tin	A29916CT-ND	16.88	77.34	140.63	A29916TR-ND	20,000	75.94/M	60501-1
	#6	18-14	0.13-0.18	Brass/Tin	A29917CT-ND	18.41	84.38	153.43	A29917TR-ND	12,000	82.85/M	60725-1
	#10	18-14	0.1-0.14	Brass	A29919CT-ND	14.61	66.95	121.73	A29919TR-ND	12,000	73.04/M	60775-1
Fork, Non-Insulation Support												
5	#8	12-10	—	Brass/Tin	A29920CT-ND	23.40	107.25	195.00	A29920TR-ND	8,000	117.00/M	42113-2
	#5	20-18	0.065-0.08	Brass/Tin	A29921CT-ND	16.62	76.19	138.53	A29921TR-ND	20,000	74.81/M	42339-2
	#5	28-22	0.035-0.04	Brass	A29922CT-ND	11.83	54.20	98.55	A29922TR-ND	28,000	53.22/M	61498-1
	#5	28-22	0.035-0.04	Brass/Tin	A29923CT-ND	9.53	43.68	79.43	A29923TR-ND	28,000	42.89/M	61498-2

Splices Non-Insulation

Fig.	Wire Range Min./Max. (mm2)	Stock Thickness (Inch)	Wire Size (CMA)	Material	Length (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
6	1.64/4.2	.020	3232-8282	Brass	.152	A29924CT-ND	7.43	34.05	61.90	A29924TR-ND	30,000	33.43/M	40509
	1.52/4.28	.020	4000-9000	Brass	.255	A29925CT-ND	6.16	28.24	51.35	A29925TR-ND	2,500	41.08/M	485043-1
	.61/1.32	.020	1200-2600	Brass	.188	A29926CT-ND	4.33	19.84	36.08	A29926TR-ND	12,000	19.49/M	60372-1
	2.03/5.07	.025	4000-10000	Brass	.250	A29928CT-ND	6.64	30.44	55.35	A29928TR-ND	12,500	29.89/M	62357-1
	.20/.81	.016	400-1600	Brass	.110	A29929CT-ND	5.22	23.91	43.48	A29929TR-ND	20,000	23.48/M	62759-1

SHUR-PLUG Terminals and Receptacles

Fig.	Mating Angle	Wire AWG	Stock Thick. (Inch)	Insulation Size Min./Max.	Material/ Finish	Mating Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Terminals														
7	Straight	18-14	.018	.120/.175	Brass/Tin	.180	A29930CT-ND	10.34	47.41	86.20	A29930TR-ND	12,000	51.72/M	60660-1
	Straight	18-14	.018	.085/.125	Brass/Tin	.156	A29931CT-ND	22.51	103.15	187.55	A29931TR-ND	14,000	112.53/M	60766-2
	Straight	14-10	.018	N/A	Brass/Tin	.180	A29939CT-ND	15.65	71.72	130.40	A29939TR-ND	5,000	78.24/M	42865-3
Receptacles														
8	Straight	18-14	.016	.130/.175	Brass/Tin	.156	A29932CT-ND	11.20	51.33	93.33	A29932TR-ND	12,000	56.00/M	42142-1
	Straight	18-14	.016	.130/.175	Brass	.156	A29933CT-ND	23.06	105.67	192.13	A29933TR-ND	12,000	103.75/M	42142-2
9	Straight	14-10	.016	N/A	Brass/Tin	.180	A99876CT-ND	11.24	51.49	93.63	A99876TR-ND	10,000	74.90/M	42868-2
10	Rt. Angle	20-16	.016	.100/.140	Brass	.156	A29934CT-ND	25.96	118.97	216.30	A29934TR-ND	2,500	173.04/M	60017-3

PCB Faston Tabs

Fig.	Mating Angle	Tab Width (Inch)	Mating Tab Thickness (Inch)	Material/ Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
11	Straight	.187	.020	Brass/Tin	A29937CT-ND	7.48	34.27	62.30	A29937TR-ND	16,000	33.65/M	63823-1
	Straight	.250	.032	Brass/Tin	A29938CT-ND	5.90	27.05	49.18	A29938TR-ND	10,000	26.56/M	63824-1

Fig. 1

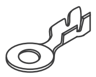

Fig. 2

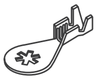

Fig. 3

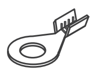

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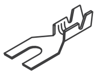

Fig. 5

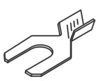

Fig. 6

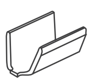

Fig. 7

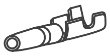

Fig. 8

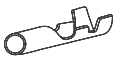

Fig. 9

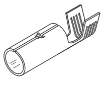

Fig. 10

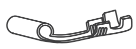

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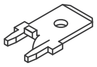

Amphenol® Industrial

NEW! Helios H4 Solar Connectors

Fig. 1

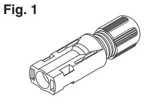

Fig. 2

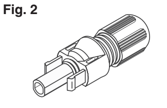

Features: • Fully intermateable with industry standard • Meets all new NEC 2008 requirements • Quick and easy secure snap lock mating • Simple unlocking tool meets NEC requirements • Long-term UV and Ozone resistance • Highest current rating in industry • Complete Cable Assemblies available • Low contact resistance means low power loss • Ready for field assembly • No assembly required, no small parts to lose

Fig.	Description	AWG	Current Rating (A)	Digi-Key Part No.	Price Each 1	5	10	Amphenol Part No.
—	Mated Pair	10	52	956-1003-ND	7.87	6.74	6.23	H4CPC6DI
1	Female Half	10	52	956-1004-ND	5.67	4.85	4.49	H4CFC6DI
2	Male Half	10	52	956-1005-ND	3.84	3.29	3.04	H4CMC6DI
—	Mated Pair	12	45	956-1000-ND	7.22	6.18	5.71	H4CPC4DI
1	Female Half	12	45	956-1001-ND	5.21	4.46	4.12	H4CFC4DI
2	Male Half	12	45	956-1002-ND	3.50	3.00	2.77	H4CMC4DI
—	Mated Pair	14	36	956-1006-ND	6.88	5.89	5.44	H4CPC2DI

Fig.	Description	AWG	Current Rating (A)	Digi-Key Part No.	Price Each 1	5	10	Amphenol Part No.
1	Female Half	14	36	956-1007-ND	4.96	4.24	3.92	H4CFC2DI
2	Male Half	14	36	956-1008-ND	3.32	2.84	2.63	H4CMC2DI
Tools								
H4 Strip Tool, 10 ~ 14 AWG				956-1009-ND	96.53	85.80	81.51	PV-670509-000
H4 Hand Crimper, 10 ~ 14 AWG				956-1010-ND	167.50	158.69	149.88	PV-670508-000
H4 Wrench Tool, Tip Open End, 18.3mm				956-1011-ND	10.70	9.15	8.46	PV-670803-000
H4 Unlocking Ring Tool				956-1012-ND	3.07	2.63	2.43	PV-670804-000

RADSOK® Technology

Fig. 1

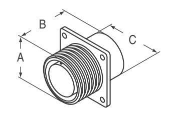

Fig. 2

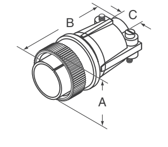

Fig. 3

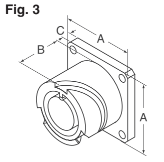

Fig. 4

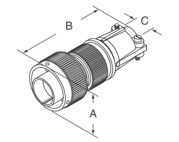

Fig. 5

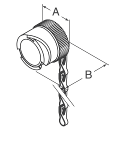

Fig. 6

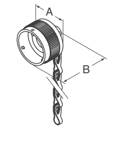

Fig. 7

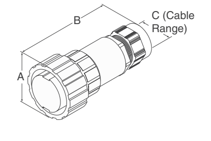

Contact Legend

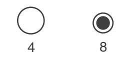

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

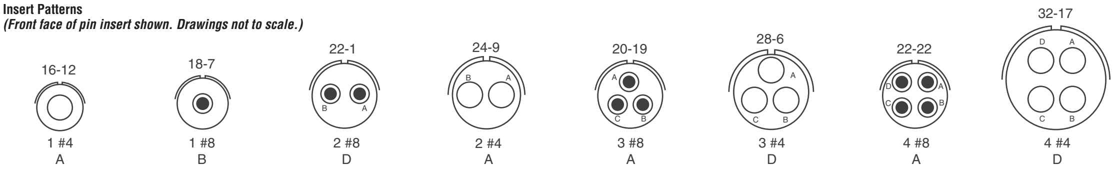

RADSOK Advantages:
• Low contact resistance • Low milli-volt drop performance • Higher current capacity with minimized temperature rise • Reliability under vibration and shock • Contacts will handle up to 150% higher amperages than standard contacts • Contacts are stocked in size 8 (69 amps) and size 4 (120 amps). Also available in size 12 (35 amps), size 0 (250 amps) and sizes 2/0 - 4/0 (500 amps) **AC Series with RADSOK:** • Single key/keyway shell polarization • Threaded coupling • Machined contacts • Operating Temperature Range: -55°C ~ 125°C • Black zinc alloy finish **GT Series with RADSOK** • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C • UL recognized • Black zinc cobalt finish **Amphe®-GTR Reverse Bayonet Series** • Compression (setscrew) wire termination • UL/CUL 1977/1682/817 recognized • Quick positive coupling • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C

Fig.	Shell Size Insert Arrange-ment No.	No. of Con-tacts/ Size	Description	Dimensions Inches A	B	C	Digi-Key Part No.	Price Each 1	5
AC (5015) Series with RADSOK									
1	18-7	1/8	Receptacle	1.062	1.582	1.000	ACC02E18-7P(025)-ND	26.94	23.03
1	22-1	2/8	Receptacle	1.250	1.582	1.250	ACC02E22-1P(025)-ND	37.14	31.75
1	20-19	3/8	Receptacle	1.156	1.582	1.125	ACC02E20-19P(025)-ND	45.57	38.96
1	16-12	1/4	Receptacle	0.969	1.582	0.875	ACC02E16-12P(025)-ND	22.72	19.43
1	24-9	2/4	Receptacle	1.375	1.581	1.375	ACC02E24-9P(025)-ND	33.26	28.44
1	28-6	3/4	Receptacle	1.562	1.581	1.625	ACC02E28-6P(025)-ND	44.73	38.24
2	16-12	1/4	Plug	1.250	2.524	0.531	ACC06E16-12R(025)-ND	47.16	41.92
1	22-22	4/8	Receptacle	1.250	1.582	0.750	ACC02E22-22P(025)-ND	54.99	47.02
GT Series with RADSOK									
3	18-7	1/8	Receptacle	1.378	0.907	0.157	GTC03018-7P(025)-ND	37.91	32.41
3	22-1	2/8	Receptacle	1.614	0.907	0.157	GTC03022-1P(025)-ND	47.90	40.95
4	18-7	1/8	Plug	1.437	4.921	0.562	GTC06F18-7S(RDS)(025)-ND	73.40	65.24
4	22-1	2/8	Plug	1.697	4.921	0.625	GTC06F22-1S(RDS)(025)-ND	94.48	83.98
3	16-12	1/4	Receptacle	1.280	0.846	0.126	GTC03016-12P(025)-ND	51.01	45.34
3	28-6	3/4	Receptacle	2.000	0.947	0.157	GTC03028-6P(025)-ND	52.27	44.68
4	16-12	1/4	Plug	1.260	4.921	0.437	GTC06F16-12S(RDS)(025)-ND	80.30	71.38
3	22-22	4/8	Receptacle	1.614	0.907	0.157	GTC03022-22P(025)-ND	47.07	41.84
3	32-17	4/4	Receptacle	2.244	0.947	0.157	GTC03032-17P(025)-ND	60.88	52.05
5	16	—	Plug Cap	1.169	0.945	—	10-580903-16Y-ND	52.98	45.29
6	16	—	Recept. Cap	1.280	0.700	—	10-580902-16Y-ND	53.51	45.74
5	18	—	Plug Cap	1.303	0.945	—	10-580903-18Y-ND	41.54	35.51
5	32	—	Plug Cap	2.193	1.260	—	10-580903-32Y-ND	47.54	42.26
6	32	—	Recept. Cap	2.382	0.900	—	10-580902-32Y-ND	47.54	42.26
Amphe-GTR Reverse Bayonet									
7	—	4/4	Plug	2.626	4.829	0.582	GT06PCM32-ARS-30(29R)-ND	140.35	132.97
7	—	4/4	Plug	2.626	4.829	0.759	GT06PCM32-ARS-40(29R)-ND	140.35	132.97
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610147-001-ND	101.90	96.54
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610222-002-ND	101.90	96.54

RADSOK® Amphe-PD™

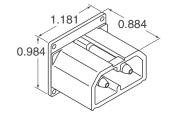

Features: • 6 AWG • UL Listed 69A • 94V-0 Flame Retardant • Positive Locking • Tool-less Assembly **Target Applications:** • Battery Connection • Busbar Connection • Power Supply Connection

No. of Contacts/ Size	Description	Type	Digi-Key Part No.	Price Each 1	5	10	25
2	Receptacle	Busbar	C10-638975-000-ND	18.51	15.82	14.63	13.44

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Description	Digi-Key Part No.	Price Each	Astro Tool Corp. Part No.
Pneumatic Crimp Tool without Dies	AMT23B-ND	1424.43	AMT23B
Size 8 Die Set for use with AMT23B-ND	AMT23002DA-ND	274.84	AMT23002DA
Locator to use with AMT23002DA-ND	AMT23161L-ND	58.07	AMT23161L
Size 4 Die Set to use with AMT23B	AMT23004DA-ND	274.84	AMT23004DA
Locator to use with AMT23004DA-ND	AMT23163L-ND	58.07	AMT23163L
Extraction Tool for #8 Contact Metal	ATC2281-ND	115.35	ATC 2281
Extraction Tool for #4 Contact Metal	ATC2426-ND	111.72	ATC 2426
Extraction Tool for #8 Contact Plastic	M81969/14-06-ND	6.42	M81969/14-06
Extraction Tool for #4 Contact Plastic	M81969/14-07-ND	6.42	M81969/14-07

Circular Bayonet Lock Connectors

Fig. 1

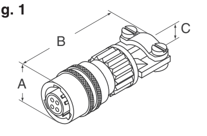

Fig. 2

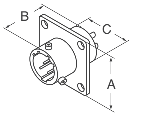

Fig. 3

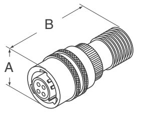

Fig. 4

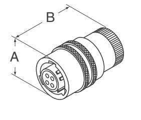

Fig. 5

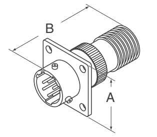

Fig. 6

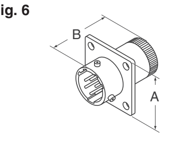

Fig. 7

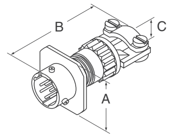

Fig. 8

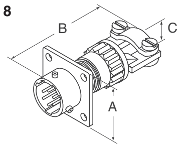

Fig. 9

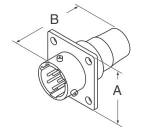

Fig. 10

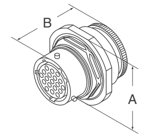

Insert Patterns *(Front face of pin insert shown)*
Drawings not to scale

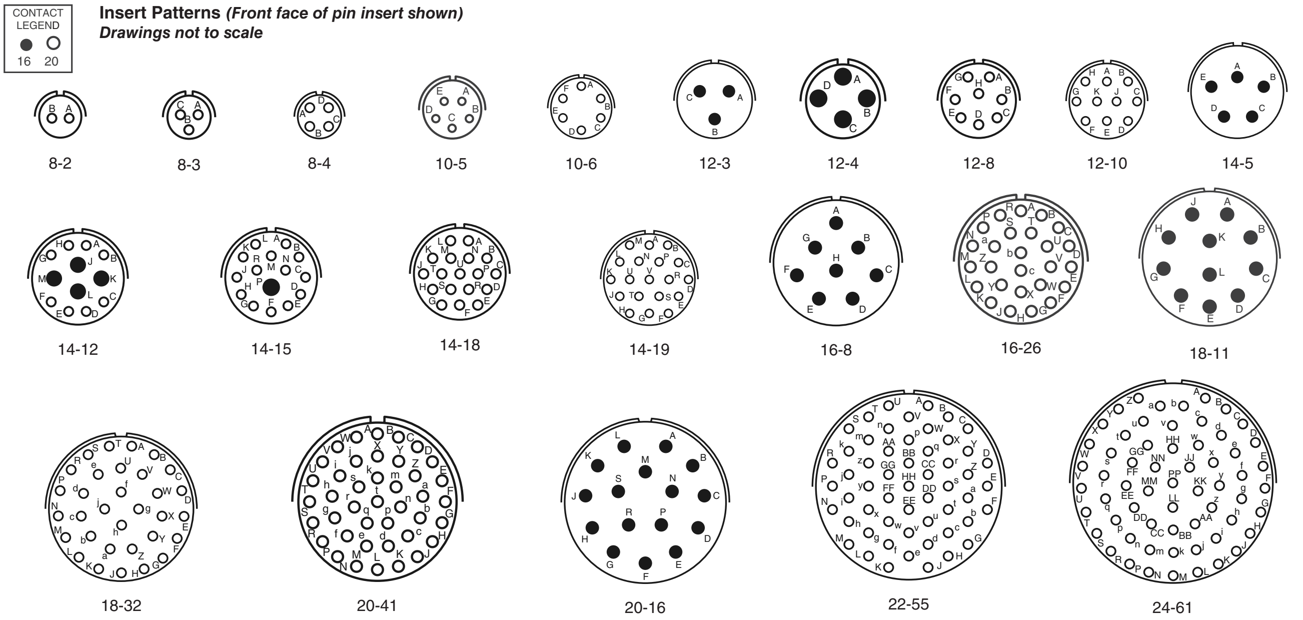

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

Shell components: A variety of shell finishes (including non-cadmium) such as aluminum with standard olive drab with electrically conductive cadmium plating and zinc cobalt with black plating. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene. **Solder contacts** are installed. Pins and sockets are copper alloy/gold plated. PT solder series are UL recognized under file #E115497, Section 5

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
1	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(SR)-ND*	37.42	31.99
2	8-2	2/20	Recept. w/pins	.812	.825	.449	PT02A-8-2P-ND	16.31	13.94
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(SR)-ND*	39.62	33.87
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06E-8-3S(SR)-ND*	42.16	36.04
2	8-3	3/20	Recept. w/pins	.812	.825	.449	PT02A-8-3P-ND	18.29	15.64
2	8-3	3/20	Recept. w/pins	.812	.825	.449	PT02E-8-3P-ND	14.26	12.19
3	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S-ND	26.44	22.61
1	8-4	4/20	Plug w/pins	.750	1.906	.125	PT06E8-4P(SR)-ND*	24.92	21.31
1	8-4	4/20	Plug w/sockets	.750	1.906	.125	PT06E8-4S(SR)-ND*	41.14	35.17
1	8-4	4/20	Plug w/pins	.750	1.906	.125	PT06A-8-4P(SR)-ND*	35.06	29.98
1	8-4	4/20	Plug w/sockets	.750	1.906	.125	PT06A-8-4S(SR)-ND*	35.50	30.35
4	8-4	4/20	Plug w/sockets	.750	1.266	—	PT06E-8-4S-ND	28.61	24.46
2	8-4	4/20	Recept. w/pins	.812	.825	.449	PT02A8-4P-ND	14.32	12.25
2	8-4	4/20	Recept. w/sockets	.812	.825	.449	PT02A8-4S-ND	16.55	14.16
2	8-4	4/20	Recept. w/pins	.812	.825	.449	PT02E-8-4P-ND	16.68	14.26
2	8-4	4/20	Recept. w/sockets	.812	.825	.449	PT02E-8-4S-ND	13.49	11.53
2	10-5	5/20	Recept. w/sockets	.938	.825	.573	956-1014-ND ***NEW!***	26.47	22.64
3	10-5	5/20	Plug w/pins	.750	1.906	—	956-1015-ND ***NEW!***	50.84	43.46
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06E10-6P(SR)-ND*	27.19	23.24
1	10-6	6/20	Plug w/sockets	.859	1.906	.188	PT06E10-6S(SR)-ND*	46.93	40.13
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06A-10-6P(SR)-ND*	35.87	30.66
1	10-6	6/20	Plug w/sockets	.859	1.906	.188	PT06A-10-6S(SR)-ND*	43.62	37.29
2	10-6	6/20	Recept. w/pins	.938	.825	.573	PT02A10-6P-ND	16.77	14.34
2	10-6	6/20	Recept. w/sockets	.938	.825	.573	PT02A10-6S-ND	18.54	15.85
2	10-6	6/20	Recept. w/pins	.938	.825	.573	PT02E-10-6P-ND	19.38	16.57
2	10-6	6/20	Recept. w/sockets	.938	.825	.573	PT02E-10-6S-ND	21.95	18.77
5	10-6	6/20	Recept. w/pins	.938	1.553	—	PT00A-10-6P-ND	31.59	27.01
6	10-6	6/20	Recept. w/pins	.938	1.266	—	PT00E-10-6P-ND	35.84	30.64
7	10-6	6/20	Recept. w/pins	.938	1.922	.188	PT01A-10-6P(SR)-ND*	34.35	29.37
3	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S-ND	25.02	21.39
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	PT06E12-3P(SR)-ND*	30.07	25.71
1	12-3	3/16	Plug w/sockets	1.013	1.906	.312	PT06E12-3S(SR)-ND*	31.87	27.25
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	PT06A-12-3P(SR)-ND*	36.80	31.46
1	12-3	3/16	Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(SR)-ND*	37.42	31.99
2	12-3	3/16	Recept. w/pins	1.031	.825	.699	PT02A12-3P-ND	13.05	11.16
2	12-3	3/16	Recept. w/sockets	1.031	.825	.699	PT02A12-3S-ND	24.34	20.81
2	12-3	3/16	Recept. w/pins	1.031	.825	.699	PT02E-12-3P-ND	14.66	12.54
1	12-4	4/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(SR)-ND*	43.59	37.26
2	12-4	4/16	Recept. w/sockets	1.031	.825	.699	PT02E-12-4S-ND	27.78	23.75
3	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P-ND	30.78	26.32
3	12-8	8/20	Plug w/sockets	1.013	1.609	—	PT06A-12-8S-ND	32.49	27.78
1	12-8	8/20	Plug w/pins	1.013	1.906	.312	PT06E-12-8P(SR)-ND*	40.61	34.72
1	12-8	8/20	Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(SR)-ND*	49.48	42.30
2	12-8	8/20	Recept. w/pins	1.031	.825	.699	PT02E-12-8P-ND	18.57	15.88
2	12-8	8/20	Recept. w/sockets	1.031	.825	.699	956-1013-ND ***NEW!***	18.94	16.20
2	12-8	8/20	Recept. w/sockets	1.031	.825	.699	956-1016-ND ***NEW!***	19.41	16.59
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(SR)-ND*	33.26	28.44
1	12-10	10/20	Plug w/sockets	1.013	1.906	.312	PT06E12-10S(SR)-ND*	38.07	32.55
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06A-12-10P(SR)-ND*	26.04	22.26
1	12-10	10/20	Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(SR)-ND*	33.11	28.31
2	12-10	10/20	Recept. w/pins	1.031	.825	.699	PT02A12-10P-ND	23.03	19.69
2	12-10	10/20	Recept. w/sockets	1.031	.825	.699	PT02A12-10S-ND	24.03	20.54
2	12-10	10/20	Recept. w/pins	1.031	.825	.699	PT02E-12-10P-ND	19.50	16.67
2	12-10	10/20	Recept. w/sockets	1.031	.825	.699	PT02E-12-10S-ND	18.76	16.04
1	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(SR)-ND*	43.00	36.76
1	14-5	5/16	Plug w/sockets	1.156	1.906	.375	PT06E14-5S(SR)-ND*	37.98	32.47
1	14-5	5/16	Plug w/sockets	1.156	1.906	.375	PT06A-14-5S(SR)-ND*	47.21	40.36
2	14-5	5/16	Recept. w/pins	1.125	.825	.823	PT02A14-5P-ND	20.93	17.89
2	14-5	5/16	Recept. w/sockets	1.125	.825	.823	PT02A14-5S-ND	31.37	26.82
2	14-5	5/16	Recept. w/pins	1.125	.825	.823	PT02E-14-5P-ND	17.08	14.61
1	14-12	8/20, 4/16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(SR)-ND*	31.68	27.09
1	14-12		Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(SR)-ND*	36.24	30.98
2	14-12		Recept. w/pins	1.125	.825	.823	PT02E-14-12P-ND	17.64	15.08
2	14-12		Recept. w/sockets	1.125	.825	.823	PT02E-14-12S-ND	33.82	28.92
2	14-12		Recept. w/sockets	1.125	.825	.823	PT02A-14-12S-ND	30.66	26.21
3	14-15	14/20, 1/16	Plug w/pins	1.156	1.609	—	PT06A-14-15P-ND	32.92	28.15
3	14-15		Plug w/sockets	1.156	1.609	—	PT06A-14-15S-ND	41.08	35.12
2	14-15		Recept. w/sockets	1.125	.825	.823	PT02A-14-15S-ND	25.82	22.08
2	14-15		Recept. w/pins	1.125	.825	.823	PT02A-14-15P-ND	19.72	16.86

* (SR) at end of part number designates that a strain relief is included.

(Continued)

Amphenol® Industrial Circular Bayonet Lock Connectors

PT with Solder Contacts (MIL-C-26482 Series 1 Type) *(Cont.)*

Fig.	Shell Size-Insert Arrangement No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
3	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P-ND	28.92	24.73
1	14-18	18/20	Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(SR)-ND*	45.97	39.30
2	14-18	18/20	Recept. w/pins	1.125	.825	.823	PT02A-14-18P-ND	26.13	22.34
2	14-18	18/20	Recept. w/sockets	1.125	.825	.823	PT02E-14-18S-ND	27.06	23.14
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(SR)-ND*	37.79	32.31
1	14-19	19/20	Plug w/sockets	1.156	1.906	.375	PT06E14-19S(SR)-ND*	44.11	37.71
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06A-14-19P(SR)-ND*	47.34	40.47
2	14-19	19/20	Recept. w/pins	1.125	.825	.823	PT02A14-19P-ND	26.47	22.64
2	14-19	19/20	Recept. w/sockets	1.125	.825	.823	PT02A14-19S-ND	28.52	24.38
1	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(SR)-ND*	54.22	46.35
1	16-8	8/16	Plug w/sockets	1.281	2.047	.500	PT06E16-8S(SR)-ND*	60.23	51.49
2	16-8	8/16	Recept. w/pins	1.219	.825	.949	PT02A16-8P-ND	19.90	17.02
2	16-8	8/16	Recept. w/sockets	1.219	.825	.949	PT02A16-8S-ND	23.90	20.44
2	16-26	26/20	Recept. w/pins	1.219	.825	.949	PT02A-16-26P-ND	33.23	28.41
1	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(SR)-ND*	55.87	49.66
1	20-16	16/16	Plug w/sockets	1.531	2.250	.625	PT06E20-16S(SR)-ND*	56.99	50.66
2	20-16	16/16	Recept. w/pins	1.438	1.076	1.199	PT02A20-16P-ND	43.65	37.32
2	20-16	16/16	Recept. w/sockets	1.438	1.076	1.199	PT02A20-16S-ND	45.38	40.34
1	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(SR)-ND*	73.28	65.14
1	22-55	55/20	Plug w/sockets	1.656	2.250	.750	PT06E22-55S(SR)-ND*	90.36	80.32
2	22-55	55/20	Recept. w/sockets	1.562	1.076	1.323	PT02A22-55S-ND	51.08	45.40
3	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P-ND	72.70	64.62
3	24-61	61/20	Plug w/sockets	1.776	1.750	—	PT06A-24-61S-ND	78.46	69.74

* (SR) at end of part number designates that a strain relief is included.

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

Aluminum shell components: Non-conductive black zinc cobalt plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Solder contacts are installed. Pins and sockets are copper alloy/gold plated.
PT solder series is UL recognized under file #E115497, Section 5

Fig.	Shell Size-Insert Arrangement No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
1	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(470)-ND*	43.93	37.55
2	8-2	2/20	Recept. w/pins	.812	.825	.449	PT02A-8-2P(025)-ND	17.67	15.11
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(470)-ND*	45.73	39.09
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06E-8-3S(470)-ND*	48.17	41.19
2	8-3	3/20	Recept. w/pins	.812	.825	.449	PT02A-8-3P(025)-ND	19.56	16.73
2	8-3	3/20	Recept. w/pins	.812	.825	.449	PT02E-8-3P(025)-ND	15.66	13.39
3	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S(025)-ND	31.62	27.03
1	8-4	4/20	Plug w/pins	.750	1.906	.125	PT06E8-4P(470)-ND*	31.68	27.09
1	8-4	4/20	Plug w/sockets	.750	1.906	.125	PT06E8-4S(470)-ND*	47.99	41.03
1	8-4	4/20	Plug w/pins	.750	1.906	.125	PT06A-8-4P(470)-ND*	41.63	35.59
1	8-4	4/20	Plug w/sockets	.750	1.906	.125	PT06A-8-4S(470)-ND*	42.41	36.26
4	8-4	4/20	Plug w/sockets	.750	1.266	—	PT06E-8-4S(025)-ND	33.76	28.86
2	8-4	4/20	Recept. w/pins	.812	.825	.449	PT02A8-4P(025)-ND	15.84	13.55
2	8-4	4/20	Recept. w/sockets	.812	.825	.449	PT02A8-4S(025)-ND	18.23	15.59
2	8-4	4/20	Recept. w/pins	.812	.825	.449	PT02E-8-4P(025)-ND	18.17	15.53
3	8-4	4/20	Recept. w/sockets	.812	.825	.449	PT02E-8-4S(025)-ND	15.16	12.96
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06E10-6P(470)-ND*	33.64	28.76
1	10-6	6/20	Plug w/sockets	.859	1.906	.188	PT06E10-6S(470)-ND*	53.26	45.53
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06A-10-6P(470)-ND*	42.01	35.91
1	10-6	6/20	Plug w/sockets	.859	1.906	.188	PT06A-10-6S(470)-ND*	50.00	42.75
2	10-6	6/20	Recept. w/pins	.938	.825	.573	PT02A10-6P(025)-ND	18.10	15.48
2	10-6	6/20	Recept. w/sockets	.938	.825	.573	PT02A10-6S(025)-ND	19.96	17.07
2	10-6	6/20	Recept. w/pins	.938	.825	.573	PT02E-10-6P(025)-ND	20.62	17.63
2	10-6	6/20	Recept. w/sockets	.938	.825	.573	PT02E-10-6S(025)-ND	23.31	19.93
5	10-6	6/20	Recept. w/pins	.938	1.553	—	PT00A-10-6P(025)-ND	34.26	29.29
6	10-6	6/20	Recept. w/pins	.938	1.266	—	PT00E-10-6P(025)-ND	38.38	32.81
7	10-6	6/20	Recept. w/pins	.938	1.922	.188	PT01A-10-6P(470)-ND*	38.78	33.16
3	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S(025)-ND	29.95	25.60
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	PT06E12-3P(470)-ND*	36.43	31.14
1	12-3	3/16	Plug w/sockets	1.013	1.906	.312	PT06E12-3S(470)-ND*	38.47	32.89
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	PT06A-12-3P(470)-ND*	42.90	36.68
1	12-3	3/16	Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(470)-ND*	43.93	37.55
2	12-3	3/16	Recept. w/pins	1.031	.825	.699	PT02A12-3P(025)-ND	14.48	12.38
2	12-3	3/16	Recept. w/sockets	1.031	.825	.699	PT02A12-3S(025)-ND	25.67	21.95
2	12-3	3/16	Recept. w/pins	1.031	.825	.699	PT02E-12-3P(025)-ND	16.06	13.73
1	12-4	4/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(470)-ND*	49.17	42.03
2	12-4	4/16	Recept. w/sockets	1.031	.825	.699	PT02E-12-4S(025)-ND	28.77	24.60
3	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P(025)-ND	35.31	30.19
3	12-8	8/20	Plug w/sockets	1.013	1.609	—	PT06A-12-8S(025)-ND	37.26	31.86
1	12-8	8/20	Plug w/pins	1.013	1.906	.312	PT06E-12-8P(470)-ND*	46.69	39.91
1	12-8	8/20	Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(470)-ND*	55.74	47.65
2	12-8	8/20	Recept. w/pins	1.031	.825	.699	PT02E-12-8P(025)-ND	19.87	16.99
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(470)-ND*	39.25	33.55
1	12-10	10/20	Plug w/sockets	1.013	1.906	.312	PT06E12-10S(470)-ND*	44.14	37.74
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06A-12-10P(470)-ND*	32.24	27.56
1	12-10	10/20	Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(470)-ND*	39.40	33.69
2	12-10	10/20	Recept. w/pins	1.031	.825	.699	PT02A12-10P(025)-ND	23.96	20.49
2	12-10	10/20	Recept. w/sockets	1.031	.825	.699	PT02A12-10S(025)-ND	25.14	21.50
2	12-10	10/20	Recept. w/pins	1.031	.825	.699	PT02E-12-10P(025)-ND	20.55	17.57
2	12-10	10/20	Recept. w/sockets	1.031	.825	.699	PT02E-12-10S(025)-ND	20.00	17.10
1	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(470)-ND*	49.01	41.90
1	14-5	5/16	Plug w/sockets	1.156	1.906	.375	PT06E14-5S(470)-ND*	43.77	37.42
2	14-5	5/16	Recept. w/pins	1.125	.825	.823	PT02A14-5P(025)-ND	22.10	18.90
2	14-5	5/16	Recept. w/sockets	1.125	.825	.823	PT02A14-5S(025)-ND	31.96	27.33
2	14-5	5/16	Recept. w/pins	1.125	.825	.823	PT02E-14-5P(025)-ND	18.38	15.72
1	14-12	8/20, 4/16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(470)-ND*	37.67	32.20
1	14-12		Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(470)-ND*	42.44	36.28
2	14-12		Recept. w/pins	1.125	.825	.823	PT02E-14-12P(025)-ND	18.79	16.06
2	14-12		Recept. w/sockets	1.125	.825	.823	PT02E-14-12S(025)-ND	34.66	29.63
2	14-12		Recept. w/sockets	1.125	.825	.823	PT02A-14-12S(025)-ND	31.59	27.01
3	14-15	14/20, 1/16	Plug w/pins	1.156	1.609	—	PT06A-14-15P(470)-ND*	39.40	33.69
3	14-15		Plug w/sockets	1.156	1.609	—	PT06A-14-15S(470)-ND*	45.97	39.30
2	14-15		Recept. w/sockets	1.125	.825	.823	PT02A-14-15S(025)-ND	26.63	22.77
2	14-15		Recept. w/pins	1.125	.825	.823	PT02A-14-15P(025)-ND	20.58	17.60
3	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P(025)-ND	32.98	28.20
1	14-18	18/20	Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(470)-ND*	51.43	43.97
2	14-18	18/20	Recept. w/pins	1.125	.825	.823	PT02A-14-18P(025)-ND	26.69	22.82
2	14-18	18/20	Recept. w/sockets	1.125	.825	.823	PT02E-14-18S(025)-ND	27.81	23.77
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(470)-ND*	43.21	36.95
1	14-19	19/20	Plug w/sockets	1.156	1.906	.375	PT06E14-19S(470)-ND*	49.63	42.43
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06A-14-19P(470)-ND*	52.33	44.74
2	14-19	19/20	Recept. w/pins	1.125	.825	.823	PT02A14-19P(025)-ND	27.00	23.09
2	14-19	19/20	Recept. w/sockets	1.125	.825	.823	PT02A14-19S(025)-ND	29.23	24.99
1	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(470)-ND*	59.89	51.20
1	16-8	8/16	Plug w/sockets	1.281	2.047	.500	PT06E16-8S(470)-ND*	47.27	42.02
2	16-8	8/16	Recept. w/pins	1.219	.825	.949	PT02A16-8P(025)-ND	21.11	18.05
2	16-8	8/16	Recept. w/sockets	1.219	.825	.949	PT02A16-8S(025)-ND	24.77	21.18
2	16-26	26/20	Recept. w/pins	1.219	.825	.949	PT02A-16-26P(025)-ND	32.89	28.12
1	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(470)-ND*	58.46	51.96
1	20-16	16/16	Plug w/sockets	1.531	2.250	.625	PT06E20-16S(470)-ND*	59.00	52.44
2	20-16	16/16	Recept. w/pins	1.438	1.076	1.199	PT02A20-16P(025)-ND	43.40	37.10
2	20-16	16/16	Recept. w/sockets	1.438	1.076	1.199	PT02A20-16S(025)-ND	60.79	51.97
1	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(470)-ND*	71.87	63.88
1	22-55	55/20	Plug w/sockets	1.656	2.250	.750	PT06E22-55S(470)-ND*	88.16	78.36
2	22-55	55/20	Recept. w/pins	1.562	1.076	1.323	PT02A22-55P(025)-ND	58.68	50.17
3	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P(025)-ND	70.02	62.24
3	24-61	61/20	Plug w/sockets	1.776	1.750	—	PT06A-24-61S(025)-ND	75.92	67.48

* (470) at end of part number designates that a strain relief is included.

MS with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size-Insert Arrangement No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
4	8-2	2/20	Plug w/sockets	.750	1.266	—	MS3116E-8-2S-ND*	30.75	29.83
2	8-2	2/20	Recept. w/pins	.812	.825	.449	MS3112E8-2P-ND*	13.02	12.24
4	8-3	3/20	Plug w/pins	.750	1.266	—	MS3116E-8-3P-ND*	34.32	33.08
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	MS3116F-8-3S-ND†	43.69	41.63
2	8-3	3/20	Recept. w/pins	.812	.825	.449	MS3112E8-3P-ND*	15.30	14.39
2	8-3	3/20	Recept. w/sockets	.812	.825	.449	MS3112E-8-3S-ND	23.45	22.92
1	8-4	4/20	Plug w/pins	.750	1.906	.125	MS3116F-8-4P-ND†	40.62	39.10
2	8-4	4/20	Recept. w/pins	.812	.825	.449	MS3112E8-4P-ND*	13.60	12.79
1	10-6	6/20	Plug w/pins	.859	1.906	.188	MS3116F-10-6P-ND†	40.67	—
8	10-6	6/20	Recept. w/pins	.938	1.922	.188	MS3110F-10-6P-ND†	62.52	59.89
8	10-6	6/20	Recept. w/sockets	.938	1.922	.188	MS3110F-10-6S-ND†	85.96	84.42
2	10-6	6/20	Recept. w/pins	.938	.825	.573	MS3112E-10-6P-ND*	20.06	19.46
2	10-6	6/20	Recept. w/sockets	.938	.825	.573	MS3112E-10-6S-ND*	23.22	—
4	10-6	6/20	Plug w/sockets	.859	1.266	—	MS3116E-10-6S-ND*	36.50	34.90
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	MS3116F-12-3P-ND†	46.76	45.70
1	12-3	3/16	Plug w/sockets	1.013	1.906	.312	MS3116F-12-3S-ND†	51.56	50.00
2	12-3	3/16	Recept. w/pins	1.031	.825	.699	MS3112E-12-3P-ND*	21.16	20.10
2	12-3	3/16	Recept. w/sockets	1.031	.825	.699	MS3112E-12-3S-ND*	26.45	25.50
1	12-10	10/20	Plug w/sockets	1.013	1.906	.312	MS3116F-12-10S-ND†	55.05	—
2	12-10	10/20	Recept. w/pins	1.031	.825	.699	MS3112E-12-10P-ND*	23.97	22.84
2	12-10	10/20	Recept. w/sockets	1.031	.825	.699	MS3112E-12-10S-ND*	45.63	44.40
1	14-12	8/20, 4/16	Plug w/sockets	1.156	1.906	.375	MS3116F-14-12S-ND†	68.81	66.96
2	14-12		Recept. w/pins	1.125	.825	.823	MS3112E-14-12P-ND*	40.24	38.85
1	14-18	18/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-18S-ND†	88.30	86.38
1	14-19	19/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-19S-ND†	87.28	85.09
2	14-19	19/20	Recept. w/pins	1.125	.825	.823	MS3112E-14-19P-ND*	37.06	36.35
1	16-26	26/20	Plug w/sockets	1.281	2.047	.500	MS3116F-16-26S-ND†	92.56	—
2	16-26	26/20	Recept. w/pins	1.219	.825	.949	MS3112E-16-26P-ND*	43.77	42.85
1	18-32	32/20	Plug w/pins	1.319	2.078	.625	MS3116F-18-32P-ND†	114.22	109.72
1	20-41	41/20	Plug w/sockets	1.531	2.250	.625	MS3116F-20-41S-ND†	137.60	134.90
2	22-55	55/20	Recept. w/pins	1.562	1.076	1.323	MS3112E-22-55P-ND*	79.73	77.56

* Environmental resistant supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires † Grommet seal with strain relief clamp

(Continued)

Amphenol® Industrial

Circular Bayonet Lock Connectors *(Cont.)*

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

Aluminum shell components: Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See Astro Tool Corp. hand crimping tools and contact installation/removal tools). Pins and sockets are copper alloy/gold plated.

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
1	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(SR)-ND*	51.03	43.62
1	10-6	6/20	Plug w/sockets	.859	2.413	.188	PT06SE10-6S(SR)-ND*	43.77	37.42
9	10-6	6/20	Recept. w/pins	.954	1.296	—	PT02SE10-6P-ND	43.18	36.92
9	10-6	6/20	Recept. w/sockets	.954	1.296	—	PT02SE10-6S-ND	52.11	44.55
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(SR)-ND*	57.44	49.11
1	12-10	10/20	Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(SR)-ND*	42.56	36.39
9	12-10	10/20	Recept. w/pins	1.047	1.296	—	PT02SE12-10P-ND	44.14	37.74
9	12-10	10/20	Recept. w/sockets	1.047	1.296	—	PT02SE12-10S-ND	56.85	48.61
1	16-8	8/16	Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(SR)-ND*	72.74	64.66
9	16-8	8/16	Recept. w/pins	1.234	1.296	—	PT02SE16-8P-ND	57.15	50.80
9	16-8	8/16	Recept. w/sockets	1.234	1.296	—	PT02SE16-8S-ND	65.36	58.10
1	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(SR)-ND*	79.36	70.54
1	18-32	32/20	Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(SR)-ND*	94.12	83.66
9	18-32	32/20	Recept. w/pins	1.328	1.296	—	PT02SE18-32P-ND	72.38	64.34
9	18-32	32/20	Recept. w/sockets	1.328	1.296	—	PT02SE18-32S-ND	76.84	68.30
1	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(SR)-ND*	57.85	49.45
1	20-16	16/16	Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(SR)-ND*	95.58	84.96
9	20-16	16/16	Recept. w/pins	1.453	1.358	—	PT02SE20-16P-ND	69.95	62.18
9	20-16	16/16	Recept. w/sockets	1.453	1.358	—	PT02SE20-16S-ND	85.77	76.24
1	22-55	55/20	Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(SR)-ND*	77.22	68.64
1	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(SR)-ND*	77.00	68.44
1	24-61	61/20	Plug w/sockets	1.777	2.830	.800	PT06SE24-61S(SR)-ND*	97.13	86.34
9	24-61	61/20	Recept. w/pins	1.703	1.358	—	PT02SE24-61P-ND	110.48	98.20

* (SR) at end of part number designates that a strain relief is included.

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

RoHS COMPLIANT

Aluminum shell components: Non-conductive black zinc cobalt plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See Astro Tool Corp. hand crimping tools and contact installation/removal tools). Pins and sockets are copper alloy/gold plated.

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
1	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(470)-ND*	56.76	48.53
1	10-6	6/20	Plug w/sockets	.859	2.413	.188	PT06SE10-6S(470)-ND*	50.16	42.88
9	10-6	6/20	Recept. w/pins	.954	1.296	—	PT02SE10-6P(025)-ND	43.74	37.40
9	10-6	6/20	Recept. w/sockets	.954	1.296	—	PT02SE10-6S(025)-ND	52.89	45.21
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(470)-ND*	45.36	40.32
1	12-10	10/20	Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(470)-ND*	48.55	41.50
9	12-10	10/20	Recept. w/pins	1.047	1.296	—	PT02SE12-10P(025)-ND	44.24	37.82
9	12-10	10/20	Recept. w/sockets	1.047	1.296	—	PT02SE12-10S(025)-ND	57.04	48.76
1	16-8	8/16	Plug w/pins	1.281	2.528	.500	PT06SE16-8P(470)-ND*	62.15	55.24
1	16-8	8/16	Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(470)-ND*	75.20	66.84
9	16-8	8/16	Recept. w/pins	1.234	1.296	—	PT02SE16-8P(025)-ND	56.79	50.48
9	16-8	8/16	Recept. w/sockets	1.234	1.296	—	PT02SE16-8S(025)-ND	64.17	57.04
1	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(470)-ND*	78.75	70.00
1	18-32	32/20	Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(470)-ND*	92.39	82.12
9	18-32	32/20	Recept. w/pins	1.328	1.296	—	PT02SE18-32P(025)-ND	68.33	60.74
9	18-32	32/20	Recept. w/sockets	1.328	1.296	—	PT02SE18-32S(025)-ND	72.47	64.42
1	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(470)-ND*	45.25	40.22
1	20-16	16/16	Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(470)-ND*	95.45	84.84
9	20-16	16/16	Recept. w/pins	1.453	1.358	—	PT02SE20-16P(025)-ND	67.93	60.38
9	20-16	16/16	Recept. w/sockets	1.453	1.358	—	PT02SE20-16S(025)-ND	82.19	73.06
1	22-55	55/20	Plug w/pins	1.656	2.753	.750	PT06SE22-55P(470)-ND*	96.48	85.76
1	22-55	55/20	Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(470)-ND*	76.12	67.66
9	22-55	55/20	Recept. w/pins	1.578	1.358	—	PT02SE22-55P(025)-ND	89.55	79.60
9	22-55	55/20	Recept. w/sockets	1.578	1.358	—	PT02SE22-55S(025)-ND	103.61	92.10
1	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(470)-ND*	75.24	66.88
9	24-61	61/20	Recept. w/pins	1.703	1.358	—	PT02SE24-61P(025)-ND	101.77	90.46

* (470) at end of part number designates that a strain relief is included.

Replacement Crimp Contacts

Description	Contact Size	Digi-Key Part No.	Price Each 1	5	10
Replacement Pin	16	10-314980-16P-ND	1.58	1.36	1.25
Replacement Pin	20	10-314980-20P-ND	1.09	.93	.86
Replacement Socket	16	10-257982-16F-ND	2.51	2.15	1.99
Replacement Socket	20	LP-597820-355-ND	1.43	1.22	1.13

MS with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
1	10-6	6/20	Plug w/pins	—	2.413	.188	MS3126F-10-6P-ND	66.60	63.93
1	10-6	6/20	Plug w/sockets	—	2.413	.188	MS3126F-10-6S-ND	63.00	61.39
8	10-6	6/20	Recept. w/pins	.954	2.422	.188	MS3120F-10-6P-ND	79.48	77.21
8	10-6	6/20	Recept. w/sockets	.954	2.422	.188	MS3120F-10-6S-ND	68.44	65.60
7	10-6	6/20	Recept. w/sockets	.955	2.422	.188	MS3121F-10-6S-ND	78.25	75.76
8	12-3	3/16	Recept. w/pins	1.047	2.422	.312	MS3120F-12-3P-ND	92.96	89.07
9	12-3	3/16	Recept. w/pins	1.047	1.296	—	MS3122E-12-3P-ND	62.08	59.88
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	MS3126F-12-10P-ND	71.57	69.23
1	12-10	10/20	Plug w/sockets	1.031	2.413	.312	MS3126F-12-10S-ND	69.92	—
6	12-10	10/20	Recept. w/pins	1.047	1.328	.312	MS3120E-12-10P-ND	82.44	80.02
9	12-10	10/20	Recept. w/pins	1.047	1.296	—	MS3122E-12-10P-ND	55.47	—
9	12-10	10/20	Recept. w/sockets	1.047	1.296	—	MS3122E-12-10S-ND	58.47	—
1	14-5	5/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-5S-ND	91.46	88.17
9	14-5	5/16	Recept. w/pins	1.141	1.296	—	MS3122E14-5P-ND	52.04	48.92
1	14-12	8/20,	Plug w/sockets	1.156	2.413	.375	MS3126F-14-12S-ND	103.04	—
9	14-12	4/16	Recept. w/pins	1.141	1.296	—	MS3122E-14-12P-ND	79.94	—
1	14-18	18/20	Plug w/sockets	1.156	2.413	.375	MS3126F-14-18S-ND	90.47	—
9	14-18	18/20	Recept. w/pins	1.141	1.296	—	MS3122E-14-18P-ND	81.83	—
1	14-19	19/20	Plug w/pins	1.156	2.413	.375	MS3126F-14-19P-ND	91.66	89.58
9	14-19	19/20	Recept. w/pins	1.141	1.296	—	MS3122E-14-19P-ND	76.08	—
8	14-19	19/20	Recept. w/sockets	1.141	2.422	.375	MS3120F-14-19S-ND	97.68	97.16
10	14-19	19/20	Recept. w/sockets	1.391	1.438	—	MS3124E-14-19S-ND	148.92	145.46
1	16-8	8/16	Plug w/pins	1.281	2.528	.500	MS3126F-16-8P-ND	93.27	—
1	16-26	26/20	Plug w/pins	1.281	2.528	.500	MS3126F-16-26P-ND	110.13	106.67
1	18-11	11/16	Plug w/sockets	1.391	2.528	.625	MS3126F-18-11S-ND	151.11	144.62
1	20-16	16/16	Plug w/sockets	1.531	2.753	.625	MS3126F-20-16S-ND	173.33	163.96
1	20-41	41/20	Plug w/sockets	1.531	2.753	.625	MS3126F-20-41S-ND	150.07	—
8	20-41	41/20	Recept. w/sockets	1.453	2.824	.625	MS3120F-20-41S-ND	172.90	169.22
9	20-41	41/20	Recept. w/pins	1.453	1.358	—	MS3122E-20-41P-ND	126.52	123.01
1	22-55	55/20	Pl ug w/sockets	1.656	2.753	.750	MS3126F-22-55S-ND	184.31	—
9	22-55	55/20	Recept. w/pins	1.578	1.358	—	MS3122E-22-55P-ND	146.11	—
9	22-55	55/20	Recept. w/sockets	1.578	1.358	—	MS3122E-22-55S-ND	164.12	—
1	24-61	61/20	Plug w/sockets	1.777	2.830	.800	MS3126F-24-61S-ND	204.94	—

PT Series Mounting Flange Gaskets

RoHS COMPLIANT

For use with wall and box mounting PT00 and PT02 receptacles

Shell Size	Digi-Key Part No.	Pricing 1	5	10
8	10-101949-008-ND	.19	.80	1.47
10	10-101949-010-ND	.22	.93	1.72
12	10-101949-012-ND	.22	.93	1.72
14	10-101949-014-ND	.22	.93	1.72
16	10-101949-016-ND	.25	1.06	1.96
18	10-101949-018-ND	.28	1.19	2.21
20	10-101949-020-ND	.28	1.19	2.21
22	10-101949-022-ND	.28	1.19	2.21
24	10-101949-024-ND	1.33	5.70	10.54

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Hand Crimping Tool Military Standard Tool Part No.					Insertion Tool						Removal Tool			
Contact Size	Tool Frame	Price Each	Turret Head	Price Each	Production Metal Pliers	Price Each	Prototype Plastic	Price Each	Military Standard Part No.	Price Each	Prototype	Price Each	Military Standard Part No.	Price Each
20	615708-ND	297.27	615709-ND	107.60	ATBX1-8107-20-ND	201.00	ATA1086-ND	29.91	ATML1703B-ND	29.33	AT2020-ND	38.98	ATML1906B-ND	38.98
16	615708-ND	297.27	615709-ND	107.60	ATBX1-8107-16-ND	201.00	ATA1101-ND	29.91	ATML1704B-ND	29.91	AT2016-ND	38.98	ATML1901B-ND	38.98

Amphenol® Industrial Circular Threaded Connectors — 97 Series with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles

Low cost, general duty, non-environmental connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. **Features:** • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallylphthalate • Aluminum alloy components with a conductive cadmium plate finish and olive chromate after-treatment • Contacts are solder type, silver plated with pre-tinned solder cups • Cable clamps are zinc alloy with olive drab/green chromate finish

E115497 LR69183

Fig. 1 — Straight Plug (97 Series)

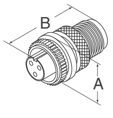

Coupling ring machined from solid aluminum bar stock for high tensile strength. Mates with all types of 97 series receptacles. Front shell includes polarization keyway. Solid shell. Threaded backshell.

Fig. 2 — Angle Plug (97 Series)

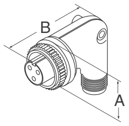

Shell is split longitudinally for convenient solder or inspection. Front shell is keyed to allow the 90 degree angle housing to be rotated and locked at any 45 degree increment.

Fig. 3 — Cable Receptacle

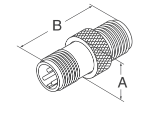

Fig. 4 — Box Mount Receptacle

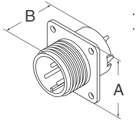

Mounting Holes
.147 Diameter sizes 24,28
.120 Diameter all other sizes

Fig. 5 — Wall Mount Receptacle

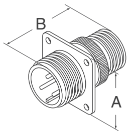

Mounting Holes
.147 Diameter sizes 24, 28
.120 Diameter all other sizes

Fig. 6 — Cable Clamp

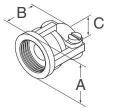

Fig. 7 — Bushing

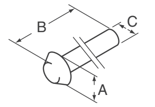

Fig. 8 — Straight Plug

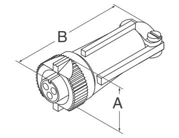

Fig. 9 — Straight Plug

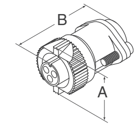

Fig. 10

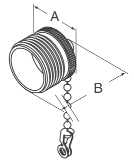

Fig. 11

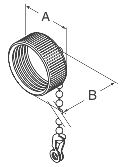

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

CONTACT LEGEND
● ⊕ ◉
16 12 8

SERVICE RATING:

		INST	A	D	C
Limited Operating	DC	250	700	1250	4200
Voltages at Sea Level	AC(rms)	200	500	900	3000

TEST CURRENT: Contact Size 16 = 13 amperes, Contact Size 12 = 23 amperes
NOTE: Transients were not considered in calculating these values.
NOTE: Limiting operating voltage at 50,000 feet altitude are approximately 25% of the sea level values.

Insert Arrangement Service Rating

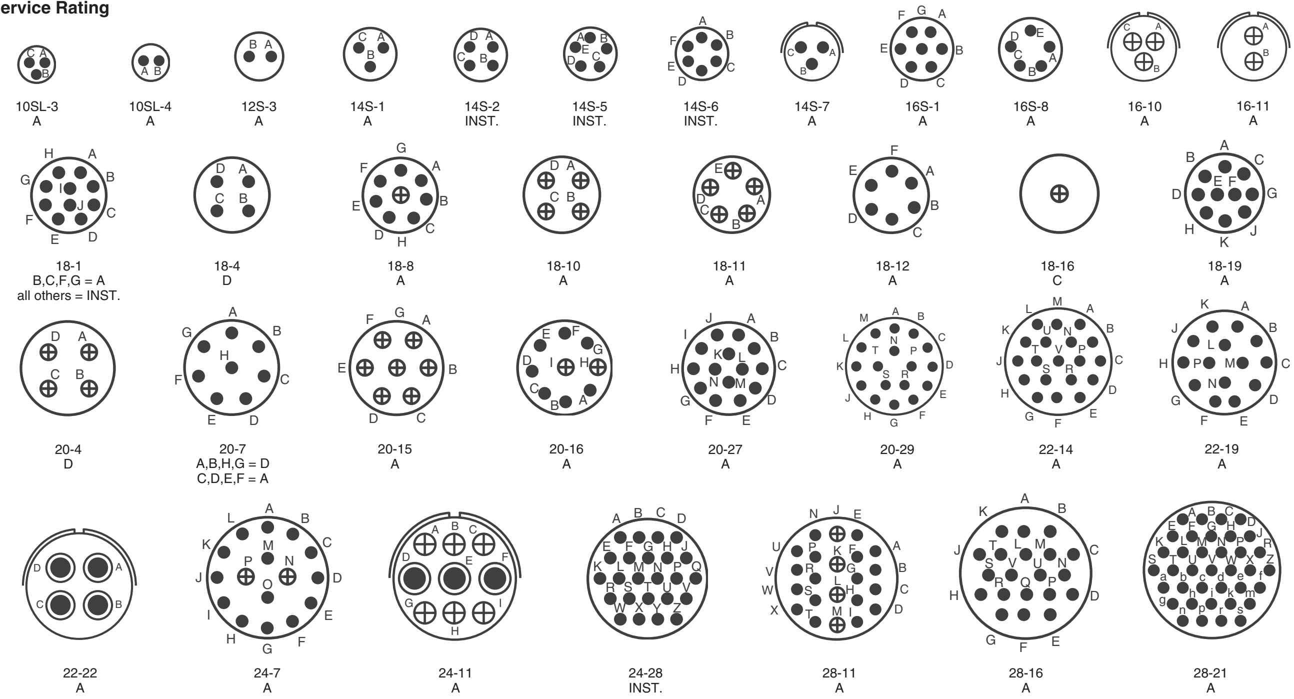

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	Dimensions (Inches) B	Digi-Key Part No.	Price Each 1	Price Each 5
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S-ND	20.43	17.47
2	10SL-3	3/16	Plug with Socket	7/8	1-1/2	97-3108B-10SL-3S-ND	54.56	46.64
3	10SL-3	3/16	Recept. with Pins	1	1-9/32	97-3101A-10SL-3P-ND	47.99	41.03
4	10SL-3	3/16	Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P-ND	27.53	23.54
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S-ND	38.75	33.13
2	10SL-4	2/16	Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S-ND	52.14	44.58
3	10SL-4	2/16	Recept. with Pins	1	1-9/32	97-3101A-10SL-4P-ND	45.69	39.07
4	10SL-4	2/16	Recept. with Pins	1	1-9/32	97-3102A-10SL-4P-ND	25.42	21.73
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P-ND	17.70	15.14
	12S-3	2/16	Plug with Socket	1	1-7/16	97-3106A-12S-3S-ND	23.47	20.06
4	12S-3	2/16	Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P-ND	12.99	11.11
	12S-3	2/16	Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S-ND	14.01	11.98
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P-ND	20.43	17.47
	14S-1	3/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S-ND	25.92	22.16
2	14S-1	3/16	Plug with Pins	1-1/8	1-23/32	97-3108B-14S-1P-ND	23.68	20.25
	14S-1	3/16	Plug with Socket	1-1/8	1-23/32	97-3108B-14S-1S-ND	24.34	20.81
5	14S-1	3/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-1P-ND	20.43	17.47
	14S-1	3/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-1S-ND	25.92	22.16
3	14S-1	3/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-1P-ND	31.19	26.66
	14S-1	3/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-1S-ND	25.54	21.84
1	14S-2	4/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-2P-ND	20.31	17.36
	14S-2	4/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-2S-ND	21.95	18.77
2	14S-2	4/16	Plug with Pins	1-1/8	1-23/32	97-3108B-14S-2P-ND	29.14	24.91
	14S-2	4/16	Plug with Socket	1-1/8	1-23/32	97-3108B-14S-2S-ND	25.42	21.73
5	14S-2	4/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-2P-ND	28.12	24.04
	14S-2	4/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-2S-ND	30.54	26.11
3	14S-2	4/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-2P-ND	31.00	26.50
	14S-2	4/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-2S-ND	32.86	28.09
1	14S-5	5/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-5P-ND	22.72	19.43
	14S-5	5/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-5S-ND	23.56	20.14
2	14S-5	5/16	Plug with Pins	1-1/8	1-23/32	97-3108B-14S-5P-ND	31.87	27.25
	14S-5	5/16	Plug with Socket	1-1/8	1-23/32	97-3108B-14S-5S-ND	32.86	28.09

(Continued)

Circular Threaded Connectors — 97 Series with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles *(Cont.)*

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	5
5	14S-5	5/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-5P-ND	28.12	24.04
	14S-5	5/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-5S-ND	29.17	24.94
3	14S-5	5/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-5P-ND	26.97	23.06
	14S-5	5/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-5S-ND	34.88	29.82
1	14S-6	6/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-6P-ND	23.56	20.14
	14S-6	6/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-6S-ND	23.72	20.28
2	14S-6	6/16	Plug with Pins	1-1/8	1-23/32	97-3108B-14S-6P-ND	32.86	28.09
	14S-6	6/16	Plug with Socket	1-1/8	1-23/32	97-3108B-14S-6S-ND	33.70	28.81
5	14S-6	6/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-6P-ND	29.17	24.94
	14S-6	6/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-6S-ND	29.39	25.13
3	14S-6	6/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-6P-ND	28.15	24.07
	14S-6	6/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-6S-ND	35.71	30.53
1	16S-1	7/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-1P-ND	23.56	20.14
	16S-1	7/16	Plug with Socket	1-1/4	1-15/32	97-3106A-16S-1S-ND	26.20	22.40
4	16S-1	7/16	Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-1P-ND	20.52	17.55
	16S-1	7/16	Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-1S-ND	19.41	16.59
1	16S-8	5/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-8P-ND	28.30	24.20
	16S-8	5/16	Plug with Socket	1-1/4	1-15/32	97-3106A-16S-8S-ND	29.33	25.07
4	16S-8	5/16	Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-8P-ND	20.27	17.34
	16S-8	5/16	Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-8S-ND	20.99	17.94
1	18-1	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-1P-ND	30.94	26.45
	18-1	10/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-1S-ND	34.22	29.26
2	18-1	10/16	Plug with Pins	1-11/32	2-5/32	97-3108B-18-1P-ND	39.49	33.77
	18-1	10/16	Plug with Socket	1-11/32	2-5/32	97-3108B-18-1S-ND	52.70	45.05
4	18-1	10/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-1P-ND	22.60	19.32
	18-1	10/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-1S-ND	25.02	21.39
1	18-4	4/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-4P-ND	24.89	21.28
	18-4	4/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-4S-ND	26.85	22.95
2	18-4	4/16	Plug with Pins	1-11/32	2-5/32	97-3108B-18-4P-ND	33.20	28.39
	18-4	4/16	Plug with Socket	1-11/32	2-5/32	97-3108B-18-4S-ND	35.40	30.27
4	18-4	4/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-4P-ND	20.27	17.34
	18-4	4/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-4S-ND	21.92	18.74
1	18-8	8/1#12, 8/7#16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-8P-ND	38.29	32.73
	18-8	8/1#12, 8/7#16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-8S-ND	33.39	28.54
2	18-8	8/1#12, 8/7#16	Plug with Socket	1-11/32	2-5/32	97-3108B-18-8S-ND	52.02	44.47
4	18-8	8/1#12, 8/7#16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-8P-ND	22.60	19.32
	18-8	8/1#12, 8/7#16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-8S-ND	30.54	26.11
1	18-10	4/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-10P-ND	29.79	25.47
	18-10	4/12	Plug with Socket	1-11/32	1-31/32	97-3106A-18-10S-ND	33.39	28.54
2	18-10	4/12	Plug with Pins	1-11/32	2-5/32	97-3108B-18-10P-ND	38.35	32.78
	18-10	4/12	Plug with Socket	1-11/32	2-5/32	97-3108B-18-10S-ND	52.02	44.47
4	18-10	4/12	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-10P-ND	25.92	22.16
	18-10	4/12	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-10S-ND	30.54	26.11
1	18-11	5/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-11P-ND	36.89	31.54
	18-11	5/12	Plug with Socket	1-11/32	1-31/32	97-3106A-18-11S-ND	30.94	26.45
2	18-11	5/12	Plug with Pins	1-11/32	2-5/32	97-3108B-18-11P-ND	38.35	32.78
	18-11	5/12	Plug with Socket	1-11/32	2-5/32	97-3108B-18-11S-ND	39.49	33.77
4	18-11	5/12	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-11P-ND	20.93	17.89
	18-11	5/12	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-11S-ND	27.96	23.91
1	18-12	6/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-12P-ND	34.75	29.71
	18-12	6/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-12S-ND	36.89	31.54
2	18-12	6/16	Plug with Pins	1-11/32	2-5/32	97-3108B-18-12P-ND	36.36	31.09
	18-12	6/16	Plug with Socket	1-11/32	2-5/32	97-3108B-18-12S-ND	38.35	32.78
4	18-12	6/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-12P-ND	23.59	20.17
	18-12	6/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-12S-ND	25.92	22.16
1	18-16	1/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-16P-ND	29.79	25.47
	18-16	1/12	Plug with Socket	1-11/32	1-31/32	97-3106A-18-16S-ND	43.65	37.32
2	18-16	1/12	Plug with Pins	1-11/32	2-5/32	97-3108B-18-16P-ND	39.53	33.79
	18-16	1/12	Plug with Socket	1-11/32	2-5/32	97-3108B-18-16S-ND	45.60	38.99
4	18-16	1/12	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-16P-ND	24.74	21.15
	18-16	1/12	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-16S-ND	25.54	21.84
1	18-19	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-19P-ND	42.59	36.42
	18-19	10/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-19S-ND	42.72	36.52
2	18-19	10/16	Plug with Pins	1-11/32	2-5/32	97-3108B-18-19P-ND	51.40	43.94
	18-19	10/16	Plug with Socket	1-11/32	2-5/32	97-3108B-18-19S-ND	42.97	36.73
4	18-19	10/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-19P-ND	42.35	36.20
	18-19	10/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-19S-ND	31.65	27.06
1	20-4	4/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-4P-ND	44.73	38.24
	20-4	4/12	Plug with Socket	1-15/32	1-7/8	97-3106A-20-4S-ND	61.78	52.82
4	20-4	4/12	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-4P-ND	20.43	17.47
	20-4	4/12	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-4S-ND	25.20	21.55
1	20-7	8/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-7P-ND	44.73	38.24
	20-7	8/16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-7S-ND	48.11	41.13
4	20-7	8/16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-7P-ND	25.30	21.63
	20-7	8/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-7S-ND	29.17	24.94
1	20-15	7/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-15P-ND	49.01	41.90
	20-15	7/12	Plug with Socket	1-15/32	1-7/8	97-3106A-20-15S-ND	47.16	41.92
4	20-15	7/12	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-15P-ND	23.72	20.28
	20-15	7/12	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-15S-ND	37.11	31.72
1	20-16	9/2#12, 9/7#16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-16P-ND	49.04	41.93
	20-16	9/2#12, 9/7#16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-16S-ND	42.56	36.39
4	20-16	9/2#12, 9/7#16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-16P-ND	24.68	21.10
	20-16	9/2#12, 9/7#16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-16S-ND	26.85	22.95
1	20-27	14/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-27P-ND	40.89	34.96
	20-27	14/16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-27S-ND	43.87	37.50
4	20-27	14/16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-27P-ND	31.19	26.66
	20-27	14/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-27S-ND	35.74	30.56
1	20-29	17/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-29P-ND	43.46	37.16
	20-29	17/16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-29S-ND	48.14	41.16
4	20-29	17/16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-29P-ND	34.94	29.87
	20-29	17/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-29S-ND	40.02	34.22
1	22-14	19/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-14P-ND	56.39	48.21
1	22-14	19/16	Plug with Socket	1-19/32	1-31/32	97-3106A-22-14S-ND	46.44	41.28
4	22-14	19/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-14P-ND	38.29	32.73
	22-14	19/16	Recept. with Socket	1-5/8	1-63/64	97-3102A-22-14S-ND	37.67	32.20
1	22-19	14/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-19P-ND	44.67	38.19
	22-19	14/16	Plug with Socket	1-19/32	1-31/32	97-3106A-22-19S-ND	45.54	38.93
4	22-19	14/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-19P-ND	37.57	32.12
	22-19	14/16	Recept. with Socket	1-5/8	1-63/64	97-3102A-22-19S-ND	38.29	32.73
1	24-7	16/2 #12, 16/14 #16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-7P-ND	78.26	69.56
			Plug with Socket	1-23/32	2-1/4	97-3106A-24-7S-ND	84.74	75.32
4	24-7	16/2 #12, 16/14 #16	Recept. with Pins	1-3/4	2-1/4	97-3102A-24-7P-ND	65.39	58.12
			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-7S-ND	59.36	52.76
1	24-28	24/16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-28P-ND	81.86	72.76
	24-28	24/16	Plug with Socket	1-23/32	2-1/4	97-3106A-24-28S-ND	96.86	91.77
4	24-28	24/16	Recept. with Pins	1-3/4	2-1/4	97-3102A-24-28P-ND	71.10	63.20
	24-28	24/16	Recept. with Socket	1-3/4	2-1/4	97-3102A-24-28S-ND	83.30	74.04
1	28-11	22/4#12, 22/18#16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-11P-ND	109.76	97.56
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-11S-ND	112.10	106.20
4	28-11	22/4#12, 22/18#16	Recept. with Pins	2	2-1/4	97-3102A-28-11P-ND	78.03	69.36
			Recept. with Socket	2	2-1/4	97-3102A-28-11S-ND	81.00	72.00
1	28-16	20/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-16P-ND	91.31	81.16
	28-16	20/16	Plug with Socket	1-31/32	2-1/4	97-3106A-28-16S-ND	96.71	91.62
4	28-16	20/16	Recept. with Pins	2	2-1/4	97-3102A-28-16P-ND	81.86	72.76
	28-16	20/16	Recept. with Socket	2	2-1/4	97-3102A-28-16S-ND	82.53	73.36
1	28-21	37/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-21P-ND	66.08	58.74
	28-21	37/16	Plug with Socket	1-31/32	2-1/4	97-3106A-28-21S-ND	74.48	66.20
4	28-21	37/16	Recept. with Pins	2	2-1/4	97-3102A-28-21P-ND	55.46	47.41
	28-21	37/16	Recept. with Socket	2	2-1/4	97-3102A-28-21S-ND	58.70	52.18

Accessories for 97 Series Connectors

Fig.	Shell Size-Insert Arrange-ment No.	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	5
6	10SL, 12S	Cable Clamp	.842	.795	5/16	97-3057-1004-ND	8.31	7.11
7	10SL, 12S	Bushing	.374	2.875	.210	97-79-513-3-ND◆	1.15	.98
7	10SL, 12S	Bushing	.500	2.750	.302	97-79-513-4-ND◆	1.33	1.14
—	10SL, 12S	Cable Clamp with Bushing	—	—	—	97-3057-1004-1-ND§	10.14	8.67
6	12SL, 14S	Cable Clamp	.995	.850	7/16	97-3057-1007-ND	6.94	5.94
7	12SL, 14S	Bushing	.614	2.625	.427	97-79-513-6-ND◆	1.36	1.17
—	12SL, 14S	Cable Clamp with Bushing	—	—	—	97-3057-1007-1-ND	10.35	8.86
6	16,16S	Cable Clamp	1.120	.920	9/16	97-3057-1008-ND	9.24	7.90
7	16,16S	Bushing	.739	2.500	.552	97-79-513-8-ND◆	1.15	.98
—	16,16S	Cable Clamp with Bushing	—	—	—	97-3057-1008-1-ND	10.85	9.28
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010-ND	7.81	6.68
7	18	Bushing	.889	2.375	.615	97-79-513-10-ND◆	1.15	.98
—	18	Cable Clamp with Bushing	—	—	—	97-3057-1010-1-ND	9.21	7.87
6	20, 22	Cable Clamp	1.403	.927	3/4	97-3057-1012-ND	7.81	6.68
7	20, 22	Bushing	1.084	2.250	.740	97-79-513-12-ND◆	1.33	1.14
—	20, 22	Cable Clamp with Bushing	—	—	—	97-3057-1012-1-ND	9.42	8.06
6	24, 28	Cable Clamp	1.683	1.015	15/16	97-3057-1016-ND	8.59	7.34
7	24, 28	Bushing	1.084	2.250	.740	97-79-513-12-ND◆	1.33	1.14
7	24, 28	Bushing	1.309	2.125	.927	97-79-513-16-ND◆	1.74	1.49
—	24, 28	Cable Clamp with Bushing	—	—	—	97-3057-1016-1-ND†	12.03	10.29

◆ ***RoHS Compliant***

§ When clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

† Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

Plugs and Receptacles

RoHS COMPLIANT

Low cost, general duty, non-environmental connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. **Features:** • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a black zinc alloy finish • Contacts are silver plated solder cups • Cable clamps are zinc alloy with black zinc alloy finish

E115497 LR69183

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	5
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S(946)-ND	45.01	38.48
3	10SL-3	3/16	Recept. with Pins	1	1-9/32	97-3101A-10SL-3P(946)-ND	29.11	24.89
4	10SL-3	3/16	Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P(946)-ND	14.32	12.25
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S(946)-ND	40.24	34.40
2	10SL-4	2/16	Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S(946)-ND	51.53	45.80
4	10SL-4	2/16	Recept. with Pins	1	1-9/32	97-3102A-10SL-4P(946)-ND	27.84	23.80
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P(946)-ND	24.06	20.57
	12S-3	2/16	Plug with Socket	1	1-7/16	97-3106A-12S-3S(946)-ND	25.79	22.05
4	12S-3	2/16	Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P(946)-ND	14.32	12.25
	12S-3	2/16	Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S(946)-ND	15.44	13.20
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P(946)-ND	27.84	23.80
	14S-1	3/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S(946)-ND	28.49	24.36
5	14S-1	3/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-1P(946)-ND	27.84	23.80
	14S-1	3/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-1S(946)-ND	28.49	24.36
3	14S-1	3/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-1P(946)-ND	34.26	29.29
	14S-1	3/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-1S(946)-ND	33.70	28.81
1	14S-2	4/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-2P(946)-ND	27.62	23.62
	14S-2	4/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-2S(946)-ND	29.92	25.58
5	14S-2	4/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-2P(946)-ND	30.91	26.42
	14S-2	4/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-2S(946)-ND	33.57	28.70
3	14S-2	4/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-2P(946)-ND	32.15	27.48

(Continued)

Amphenol® Industrial

Circular Threaded Connectors — 97 Series with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles *(Cont.)*

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	5
1	14S-5	5/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-5S(946)-ND	32.05	27.41
5	14S-5	5/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-5P(946)-ND	30.91	26.42
	14S-5	5/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-5S(946)-ND	32.05	27.41
3	14S-5	5/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-5S(946)-ND	37.20	31.80
1	14S-6	6/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-6P(946)-ND	32.05	27.41
	14S-6	6/16	Plug with Socket	1-1/8	1-15/32	97-3106A-14S-6S(946)-ND	26.07	22.29
2	14S-6	6/16	Plug with Socket	1-1/8	1-23/32	97-3108B-14S-6S(946)-ND	37.08	31.70
5	14S-6	6/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-6P(946)-ND	32.05	27.41
	14S-6	6/16	Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-6S(946)-ND	32.27	27.59
3	14S-6	6/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-6P(946)-ND	41.51	35.49
	14S-6	6/16	Recept. with Socket	7/8	1-15/32	97-3101A-14S-6S(946)-ND	38.13	32.60
1	16S-1	7/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-1P(946)-ND	32.05	27.41
	16S-1	7/16	Plug with Socket	1-1/4	1-15/32	97-3106A-16S-1S(946)-ND	35.71	30.53
4	16S-1	7/16	Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-1P(946)-ND	22.48	19.22
	16S-1	7/16	Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-1S(946)-ND	26.41	22.58
1	16S-8	5/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-8P(946)-ND	31.16	26.64
	16S-8	5/16	Plug with Socket	1-1/4	1-15/32	97-3106A-16S-8S(946)-ND	32.24	27.56
4	16S-8	5/16	Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-8P(946)-ND	22.29	19.06
	16S-8	5/16	Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-8S(946)-ND	23.10	19.75
1	18-1	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-1P(946)-ND	42.04	35.94
	18-1	10/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-1S(946)-ND	37.60	32.15
4	18-1	10/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-1P(946)-ND	30.72	26.27
	18-1	10/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-1S(946)-ND	34.10	29.15
1	18-4	4/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-4P(946)-ND	33.82	28.92
	18-4	4/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-4S(946)-ND	36.52	31.22
4	18-4	4/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-4P(946)-ND	21.05	18.00
	18-4	4/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-4S(946)-ND	24.06	20.57
1	18-8	8/1#12, 8/7#16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-8P(946)-ND	42.04	35.94
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-8P(946)-ND	53.75	45.96
4			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-8S(946)-ND	33.57	28.70
1	18-10	4/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-10P(946)-ND	40.46	34.59
	18-10	4/12	Plug with Socket	1-11/32	1-31/32	97-3106A-18-10S(946)-ND	45.42	38.83
4	18-10	4/12	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-10P(946)-ND	28.49	24.36
	18-10	4/12	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-10S(946)-ND	33.57	28.70
1	18-11	5/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-11P(946)-ND	40.46	34.59
	18-11	5/12	Plug with Socket	1-11/32	1-31/32	97-3106A-18-11S(946)-ND	42.04	35.94
4	18-11	5/12	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-11P(946)-ND	28.49	24.36
	18-11	5/12	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-11S(946)-ND	30.72	26.27
1	18-19	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-19P(946)-ND	58.03	49.61
	18-19	10/16	Plug with Socket	1-11/32	1-31/32	97-3106A-18-19S(946)-ND	46.90	40.10
4	18-19	10/16	Recept. with Pins	1-3/8	1-63/64	97-3102A-18-19P(946)-ND	46.56	39.81
	18-19	10/16	Recept. with Socket	1-3/8	1-63/64	97-3102A-18-19S(946)-ND	34.75	29.71
1	20-4	4/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-4P(946)-ND	49.17	42.03
	20-4	4/12	Plug with Socket	1-15/32	1-7/8	97-3106A-20-4S(946)-ND	49.25	43.78
4	20-4	4/12	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-4P(946)-ND	21.64	18.50
	20-4	4/12	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-4S(946)-ND	34.26	29.29
1	20-7	8/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-7P(946)-ND	49.17	42.03
4	20-7	8/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-7S(946)-ND	32.05	27.41
1	20-16	9/2#12, 9/7#16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-16P(946)-ND	53.97	46.14
4			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-16S(946)-ND	34.53	29.53
1	20-27	14/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-27P(946)-ND	55.52	47.47
	20-27	14/16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-27S(946)-ND	59.64	50.99
4	20-27	14/16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-27P(946)-ND	34.26	29.29
	20-27	14/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-27S(946)-ND	31.71	27.11
1	20-29	17/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-29P(946)-ND	59.15	50.57
	20-29	17/16	Plug with Socket	1-15/32	1-7/8	97-3106A-20-29S(946)-ND	47.50	42.22
4	20-29	17/16	Recept. with Pins	1-1/2	1-57/64	97-3102A-20-29P(946)-ND	38.44	32.86
	20-29	17/16	Recept. with Socket	1-1/2	1-57/64	97-3102A-20-29S(946)-ND	43.96	37.58
1	22-14	19/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-14P(946)-ND	61.91	52.92
	22-14	19/16	Plug with Socket	1-19/32	1-31/32	97-3106A-22-14S(946)-ND	51.08	45.40
4	22-14	19/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-14P(946)-ND	42.04	35.94
	22-14	19/16	Recept. with Socket	1-5/8	1-63/64	97-3102A-22-14S(946)-ND	51.18	43.76
1	22-19	14/16	Plug with Socket	1-19/32	1-31/32	97-3106A-22-19S(946)-ND	61.91	52.92
4	22-19	14/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-19P(946)-ND	41.32	35.33
1	24-28	24/16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-28P(946)-ND	111.29	98.92
4	24-28	24/16	Recept. with Socket	1-3/4	2-1/4	97-3102A-24-28S(946)-ND	91.67	81.48
1	28-11	22/4#12, 22/18#16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-11P(946)-ND	101.80	96.45
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-11S(946)-ND	123.12	116.64
4	28-11	22/4#12, 22/18#16	Recept. with Pins	2	2-1/4	97-3102A-28-11P(946)-ND	85.77	76.24
			Recept. with Socket	2	2-1/4	97-3102A-28-11S(946)-ND	110.16	97.92
1	28-16	20/16	Plug with Socket	1-31/32	2-1/4	97-3106A-28-16S(946)-ND	106.25	100.66
4	28-16	20/16	Recept. with Pins	2	2-1/4	97-3102A-28-16P(946)-ND	89.87	79.88
1	28-21	37/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-21P(946)-ND	72.56	64.50
4	28-21	37/16	Recept. with Socket	2	2-1/4	97-3102A-28-21S(946)-ND	64.51	57.34

Accessories For 97 Series Connectors

Fig.	Shell Size-Insert Arrange-ment No.	Description	Dimensions (Inches)			Digi-Key Part No.	Price Each	
			A	B	C		1	5
Cable Clamps								
6	10SL, 12S	Cable Clamp	.842	.795	5/16	97-3057-1004(621)-ND	9.46	8.09
—	10SL, 12S	Cable Clamp with Bushing	—	—	—	97-3057-1004-1(621)-ND*	11.56	9.89
6	12SL, 14S	Cable Clamp	.995	.850	7/16	97-3057-1007(621)-ND	7.94	6.79
—	12SL, 14S	Cable Clamp with Bushing	—	—	—	97-3057-1007-1(621)-ND	11.69	9.99
6	16, 16S	Cable Clamp	1.120	.920	9/16	97-3057-1008(621)-ND	10.57	9.04
—	16, 16S	Cable Clamp with Bushing	—	—	—	97-3057-1008-1(621)-ND	15.28	13.07
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010(621)-ND	8.90	7.61
—	18	Cable Clamp with Bushing	—	—	—	97-3057-1010-1(621)-ND	10.54	9.01
6	20, 22	Cable Clamp	1.403	.927	3/4	97-3057-1012(621)-ND	8.87	7.58
—	20, 22	Cable Clamp with Bushing	—	—	—	97-3057-1012-1(621)-ND	10.70	9.15
6	24, 28	Cable Clamp	1.683	1.015	15/16	97-3057-1016(621)-ND	9.73	8.33
—	24, 28	Cable Clamp with Bushing	—	—	—	97-3057-1016-1(621)-ND†	17.02	14.55
Protective Caps								
10	16	Plug Cap	1.000	0.844	—	97-60-16P(621)-ND	12.77	10.92
11	16	Recept. Cap	1.125	0.434	—	97-60-16(621)-ND	8.31	7.11
10	18	Plug Cap	1.125	0.844	—	97-60-18P(621)-ND	16.12	13.78
11	18	Recept. Cap	1.313	0.434	—	97-60-18(621)-ND	9.33	7.98
10	20	Plug Cap	1.250	0.844	—	97-60-20P(621)-ND	35.87	30.66
11	20	Recept. Cap	1.434	0.434	—	97-60-20(621)-ND	11.50	9.84
10	22	Plug Cap	1.375	0.844	—	97-60-22P(621)-ND	36.89	31.54
11	22	Recept. Cap	1.563	0.434	—	97-60-22(621)-ND	14.94	12.78
10	24	Plug Cap	1.500	0.844	—	97-60-24P(621)-ND	44.08	37.69
11	24	Recept. Cap	1.688	0.434	—	97-60-24(621)-ND	21.24	18.16
10	28	Plug Cap	1.750	0.844	—	97-60-28P(621)-ND	27.25	23.30
11	28	Recept. Cap	1.923	0.500	—	97-60-28(621)-ND	20.58	17.60
10	32	Plug Cap	2.000	0.844	—	97-60-32P(621)-ND	50.58	44.96
11	32	Recept. Cap	2.188	0.500	—	97-60-32(621)-ND	31.71	27.11

* When clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

†Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

MS/Standard Cylindrical

with Solder Contacts (MIL-C-5015 Series 1 Type)

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	5
1	10SL-3	3/16	Plug with Socket	.946	2.129	MS3106E-10SL-3S-ND*	39.47	—
8	10SL-3	3/16	Plug with Socket	.946	2.129	MS3106F-10SL-3S-ND†	39.47	—
4	10SL-3	3/16	Recept. with Pins	1.000	.297	MS3102E10SL-3P-ND*	9.20	8.50
4	10SL-3	3/16	Recept. with Pins	1.000	.297	MS3102R10SL-3P-ND‡	9.20	8.50
1	10SL-4	2/16	Plug with Socket	.946	.937	MS3106A-10SL-4S-ND	31.99	—
1	10SL-4	2/16	Plug with Socket	.946	2.129	MS3106E-10SL-4S-ND*	58.38	—
8	10SL-4	2/16	Plug with Socket	.946	2.129	MS3106F-10SL-4S-ND†	38.66	—
4	10SL-4	2/16	Recept. with Pins	1.000	.297	MS3102E10SL-4P-ND*	8.30	7.66
4	10SL-4	2/16	Recept. with Pins	1.000	.297	MS3102R10SL-4P-ND‡	8.30	7.66
4	14S-2	4/16	Recept. with Pins	1.188	.297	MS3102E14S-2P-ND*	9.83	9.08
4	14S-2	4/16	Recept. with Socket	1.188	.297	MS3102E14S-2S-ND*	11.60	10.70
4	14S-2	4/16	Recept. with Pins	1.188	.297	MS3102R14S-2P-ND‡	9.83	9.08
4	14S-2	4/16	Recept. with Socket	1.188	.297	MS3102R14S-2S-ND‡	11.60	10.70
1	14S-5	5/16	Plug with Socket	1.123	.937	MS3106A-14S-5S-ND	30.69	29.41
4	14S-5	5/16	Recept. with Pins	1.188	.297	MS3102E14S-5P-ND*	10.50	9.70
4	14S-5	5/16	Recept. with Pins	1.188	.297	MS3102R14S-5P-ND‡	10.50	9.70
8	14S-6	6/16	Plug with Socket	1.123	2.201	MS3106F-14S-6S-ND†	34.36	—
4	14S-6	6/16	Recept. with Pins	1.188	.297	MS3102E14S-6P-ND*	11.17	10.30
4	14S-6	6/16	Recept. with Pins	1.188	.297	MS3102R14S-6P-ND‡	11.17	10.30
4	14S-6	6/16	Recept. with Socket	1.188	.297	MS3102R14S-6S-ND‡	13.80	12.74
8	14S-7	3/16	Plug with Socket	1.123	2.201	MS3106F-14S-7S-ND†	40.74	39.39
1	16S-1	7/16	Plug with Socket	1.250	.937	MS3106A-16S-1S-ND	34.35	—
4	16S-1	7/16	Recept. with Pins	1.281	.297	MS3102R16S-1P-ND‡	13.50	12.46
1	16-10	3/12	Plug with Socket	1.250	1.124	MS3106A-16-10S-ND	37.08	36.35
4	16-11	2/12	Recept. with Pins	1.281	.484	MS3102R16-11P-ND‡	10.20	9.42
4	18-1	10/16	Recept. with Pins	1.375	.453	MS3102E-18-1P-ND*	22.28	21.32
4	18-1	10/16	Recept. with Pins	1.375	.453	MS3102R-18-1P-ND‡	20.83	20.04
1	18-1	10/16	Plug with Socket	1.333	1.219	MS3106A-18-1S-ND	42.30	—
4	18-11	5/12	Recept. with Pins	1.375	.453	MS3102E18-11P-ND*	15.67	14.46
4	20-27	14/16	Recept. with Pins	.453	1.500	MS3102R-20-27P-ND‡	22.24	—
4	22-14	19/16	Recept. with Pins	.453	1.625	MS3102E-22-14P-ND*	32.49	31.66
4	22-19	14/16	Recept. with Socket	.453	1.625	MS3102E-22-19S-ND*	24.94	24.42
4	22-22	4/8	Recept. with Pins	.453	1.625	MS3102E-22-22P-ND*	34.99	34.12
4	24-11	3/#8 6/#12	Recept. with Pins	.453	1.750	MS3102R-24-11P-ND‡	25.88	25.22
9	24-11	3/#8 6/#12	Plug with Socket	1.291	1.715	MS3106R-24-11S-ND‡	71.59	—

* Environmental resisting † Environmental resisting with strain relief (MS part number only)

‡ Lightweight environmental resisting

Amphenol® Industrial

NEW! Amphe-Lite Series Subminiature Connectors

The Amphe-Lite Connector Series is designed for communications equipment manufactures with signal, power, RF or fiber optic interconnect requirements in harsh environments such as communication towers, outdoor and roof-top applications. The Amphe-Lite offers the highest performance capabilities for severe environment applications, and yet is cost effective enough for general duty and non-environment applications.

The Amphe-Lite is UL Recognized under file #E115497.

Fig. 1

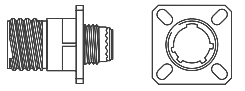

Fig. 2

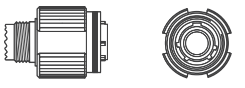

Fig. 3

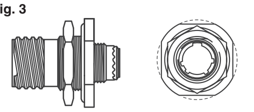

Fig.	Shell Size Insert Arrangement No.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	5	10	Amphenol Part No.
1	11-35	13	Wall Mount with Pins	956-1017-ND	39.03	33.37	30.85	AL00FD11-35P(IP)
	13-35	22	Wall Mount with Pins	956-1018-ND	56.17	48.02	44.40	AL00FD13-35P(IP)
	13-35	22	Wall Mount with Sockets	956-1019-ND	47.80	40.87	37.78	AL00FD13-35S(IP)
2	11-35	13	Straight Plug with Sockets	956-1020-ND	50.19	42.91	39.67	AL06FD11-35S(IP)
	13-35	22	Straight Plug with Pins	956-1021-ND	50.90	45.24	42.98	AL06FD13-35P(IP)
	13-35	22	Straight Plug with Sockets	956-1022-ND	48.29	42.92	40.78	AL06FD13-35S(IP)
	13-35	22	Straight Plug with Sockets	956-1023-ND	46.60	41.42	39.35	AL06UD13-35S(IP)
	15-35	37	Straight Plug with Sockets	956-1024-ND	45.25	40.22	38.21	AL06FD15-35S(IP)
	15-97	12	Straight Plug with Sockets	956-1025-ND	51.68	45.94	43.65	AL06FD15-97S(IP)
	15-AC	26	Straight Plug with Sockets	956-1026-ND	45.25	40.22	38.21	AL06FD15-ACS(IP)
3	11-35	13	Jam Nut with Pins	956-1027-ND	45.11	38.56	35.65	AL07FD11-35P(IP)
	13-35	22	Jam Nut with Pins	956-1028-ND	52.11	44.55	41.19	AL07UD13-35P(IP)
	15-35	37	Jam Nut with Pins	956-1029-ND	58.44	49.96	46.19	AL07FD15-35P(IP)
	15-97	12	Jam Nut with Pins	956-1030-ND	56.39	48.21	44.57	AL07FD15-97P(IP)
	15-AC	26	Jam Nut with Pins	956-1031-ND	57.94	49.53	45.80	AL07FD15-ACP(IP)

Amphe-PPM Quick Disconnect Connectors

RoHS COMPLIANT

Amphe-PPM is a rapid mate, push/pull connector which provides positive mating in limited space and ease of use. High performance signal and power interconnection solution, is ideally suited to many commercial and industrial applications including, medical equipment, instrumentation/test and measurement, and communication equipment.

Features:
• Non-reflective nickel finish • IP67 rated • Designed to IEC 61984 • UL94V-0 inserts • Solder contacts • Non-magnetic

Operating Temperature: -40°C ~ 100°C

Fig. 1

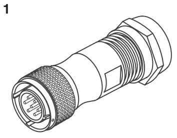

Fig. 2

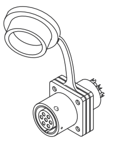

Fig. 3

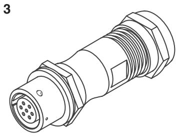

Shell Size (mm)	No. of Contacts	Contact Diameter (mm)	Cable Diameter (mm)	Description	Digi-Key Part No.	Price Each 1	5	10
				Fig. 1 — Straight Plug				
10	3	1.0	3.0 ~ 6.5	with Socket	APSCSB6E2-ND	56.02	47.89	44.28
	5	0.8	3.0 ~ 6.5	with Socket	APSCSD6E2-ND	59.61	50.96	47.12
12	7	1	4.0 ~ 8.0	with Socket	APSDSF6E2-ND	47.52	42.24	40.13
16	2	2.5	7.0 ~ 12.0	with Pins	APSEPB6E2-ND	53.10	47.20	44.84
	4	1.5	7.0 ~ 12.0	with Pins	APSEPF6E2-ND	55.40	49.24	46.78
	2	2.5	7.0 ~ 12.0	with Socket	APSESB6E2-ND	53.10	47.20	44.84
	4	1.5	7.0 ~ 12.0	with Socket	APSESF6E2-ND	55.40	49.24	46.78
18	3	2.5	10.0 ~ 14.0	with Pins	APSFPA6E2-ND	65.90	58.58	55.66
	5	1.5	10.0 ~ 14.0	with Pins	APSFPB6E2-ND	71.15	63.24	60.08
	5	1	10.0 ~ 14.0	with Pins	APSFPD6E2-ND	77.69	69.06	65.61
	3	2.5	10.0 ~ 14.0	with Socket	APSFSA6E2-ND	65.88	58.56	55.64
	5	1.5	10.0 ~ 14.0	with Socket	APSFSB6E2-ND	71.15	63.24	60.08
	8	1.5 (3 Contacts), 1 (5 Contacts)	10.0 ~ 14.0	with Socket	APSFSC6E2-ND	72.45	64.40	61.18
	5	1	10.0 ~ 14.0	with Socket	APSFSD6E2-ND	77.69	69.06	65.61
				Fig. 2 — Square Flange Receptacle				
10	3	1.0	—	with Pins	APSCPB2-ND	37.94	32.44	29.99
	5	0.8	—	with Pins	APSCPD2-ND	41.54	35.51	32.83
	3	1.0	—	with Socket	APSCSB2-ND	37.94	32.44	29.99
12	2	1.6	—	with Pins	APSDPA2-ND	39.31	33.61	31.07
	7	1	—	with Pins	APSDPF2-ND	44.73	38.24	35.36
	2	1.6	—	with Socket	APSDSA2-ND	39.31	33.61	31.07
	7	1	—	with Socket	APSDSF2-ND	44.73	38.24	35.36
16	2	2.5	—	with Pins	APSEPB2-ND	49.26	42.11	38.94
	4	1.5	—	with Pins	APSEPF2-ND	52.39	44.79	41.41
	2	2.5	—	with Socket	APSESB2-ND	49.26	42.11	38.94
	4	1.5	—	with Socket	APSESF2-ND	52.36	44.76	41.39
	12	1	—	with Socket	APSESJ2-ND	58.75	50.22	46.43
18	3	2.5	—	with Pins	APSFPA2-ND	52.82	45.16	41.75
	5	1.5	—	with Pins	APSFPB2-ND	60.05	51.33	47.46
	8	1.5 (3 Contacts), 1 (5 Contacts)	—	with Pins	APSFPC2-ND	61.88	52.90	48.91
	5	1	—	with Pins	APSFPD2-ND	50.15	44.58	42.36
	3	2.5	—	with Socket	APSFSA2-ND	52.82	45.16	41.75
	5	1.5	—	with Socket	APSFSB2-ND	60.05	51.33	47.46
	5	1	—	with Socket	APSFSD2-ND	50.15	44.58	42.36
				Fig. 3 — Jam Nut Receptacle				
10	3	1.0	3.0 ~ 6.5	with Pins	APSCPB7E2-ND	44.27	37.85	34.99
	5	0.8	3.0 ~ 6.5	with Pins	APSCPD7E2-ND	47.90	40.95	37.86
	3	1.0	3.0 ~ 6.5	with Socket	APSCSB7E2-ND	44.27	37.85	34.99
	5	0.8	3.0 ~ 6.5	with Socket	APSCSD7E2-ND	47.90	40.95	37.86
16	2	2.5	7.0 ~ 12.0	with Pins	APSEPB7E2-ND	59.61	50.96	47.12
	4	1.5	7.0 ~ 12.0	with Pins	APSEPF7E2-ND	61.41	52.50	48.54
	12	1	7.0 ~ 12.0	with Pins	APSEPJ7E2-ND	48.51	43.12	40.97
	2	2.5	7.0 ~ 12.0	with Socket	APSESB7E2-ND	59.61	50.96	47.12
	4	1.5	7.0 ~ 12.0	with Socket	APSESF7E2-ND	61.44	52.53	48.56
	12	1	7.0 ~ 12.0	with Socket	APSESJ7E2-ND	48.51	43.12	40.97
18	3	2.5	10.0 ~ 14.0	with Pins	APSFPA7E2-ND	47.88	42.56	40.44
	5	1.5	10.0 ~ 14.0	with Pins	APSFPB7E2-ND	51.80	46.04	43.74
	8	1.5 (3 Contacts), 1 (5 Contacts)	10.0 ~ 14.0	with Pins	APSFPC7E2-ND	53.10	47.20	44.84
	5	1	10.0 ~ 14.0	with Pins	APSFPD7E2-ND	55.73	49.54	47.07
	3	2.5	10.0 ~ 14.0	with Socket	APSFSA7E2-ND	47.88	42.56	40.44
	5	1.5	10.0 ~ 14.0	with Socket	APSFSB7E2-ND	51.80	46.04	43.74
	5	1	10.0 ~ 14.0	with Socket	APSFSD7E2-ND	55.73	49.54	47.07

Amphenol®

Amphenol-Tuchel Electronics GmbH

A

eco/mate™ Circular Connectors – IP 65/IP 67 (Replaces C16-1 Series)

1780,1781 14108/84
E 63093 48932
00.0394

Features: • New screw connection with clamping ring • Strain relief and seal in a single element • Ergonomically shaped handle for a better grip and safer handling • The eco/mate program is compatible and interchangeable with the C16-1 Series ***Note:* • *Male cable connectors mate with female cable connectors* • *Receptacles do not mate with each other***

General Characteristics		3 + PE	6 + PE	
		Screw	**Solder**	**Crimp**
Electrical:	**Rated Insulation Voltage**	400V	250V	250V
	Current Carrying Capacity	16A / 55°C	10A / 55°C	13A / 55°C
	Contact Resistance	≤5mΩ	≤5mΩ	≤5mΩ
Climate:	**Operating Temperature**	-40°C ~ 100°C	-40°C ~ 125°C	-40°C ~ 125°C
Mechanical:	**IP-Degree of Protection**	IP 65 / IP 67	IP 65 / IP 67	IP 65 / IP 67
Materials:	**Contact Plating**	Silver plated	Silver plated	Silver plated
Other:	**Wire Gauge**	14 AWG	20 AWG	26-16 AWG
	Color	Black	Black	Black

Fig. 1

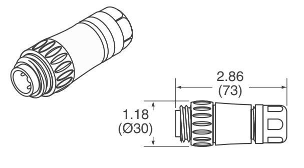

Fig. 2

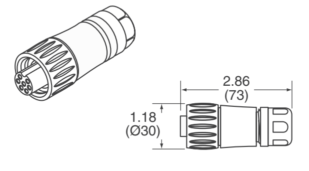

Fig. 3

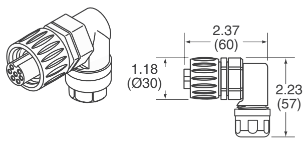

Fig. 4

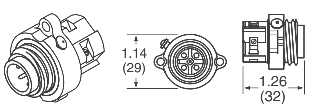

Fig. 5

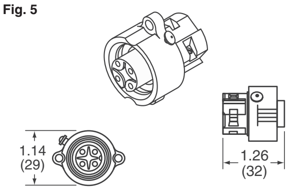

Fig. 6

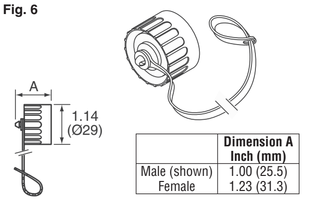

	Dimension A Inch (mm)
Male (shown)	1.00 (25.5)
Female	1.23 (31.3)

Fig.	No. of Pos.	Backshell Color	Term-ination	Contact Plating	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
				Male — Straight Cable Connectors					
1	3+PE	Black	Screw	Silver	361-1078-ND	9.75	8.91	7.64	C016 20H003 100 12
	3+PE	Blue	Screw	Silver	361-1341-ND	9.94	9.08	7.78	C016 20H003 100 10
	3+PE	Black	Screw	Gold	361-1343-ND	12.90	11.94	10.71	C016 20H003 200 12
	3+PE	Blue	Screw	Gold	361-1342-ND	12.90	11.94	10.71	C016 20H003 200 10
	6+PE	Black	Solder	Silver	361-1079-ND	10.67	9.75	8.36	C016 30H006 100 12
	6+PE	Blue	Solder	Silver	361-1348-ND	10.79	9.85	8.45	C016 30H006 100 10
	6+PE	Black	Solder	Gold	361-1350-ND	14.52	13.44	12.06	C016 30H006 200 12
	6+PE	Blue	Solder	Gold	361-1349-ND	14.52	13.44	12.06	C016 30H006 200 10
	6+PE	Black	Crimp	No Contacts	361-1080-ND	6.84	5.67	4.72	C016 10H006 000 12
				Male — Straight Cable Connectors with Internal Strain Reliefs					
1	3+PE	Black	Screw	Silver	361-1345-ND	10.53	9.62	8.25	C016 20H003 110 12
	3+PE	Blue	Screw	Silver	361-1344-ND	10.56	9.64	8.27	C016 20H003 110 10
	3+PE	Black	Screw	Gold	361-1347-ND	13.74	12.71	11.41	C016 20H003 210 12
	6+PE	Black	Solder	Silver	361-1352-ND	10.26	9.50	8.52	C016 30H006 110 12
	6+PE	Blue	Solder	Silver	361-1351-ND	10.26	9.50	8.52	C016 30H006 110 10
	6+PE	Black	Solder	Gold	361-1354-ND	13.02	12.26	11.11	C016 30H006 210 12
	6+PE	Blue	Solder	Gold	361-1353-ND	13.02	12.26	11.11	C016 30H006 210 10
				Male — Right Angle Cable Connectors					
—	3+PE	Blue	Screw	Silver	361-1355-ND	13.11	12.34	11.18	C016 20K003 100 10
	3+PE	Black	Screw	Silver	361-1356-ND	13.11	12.34	11.18	C016 20K003 100 12
	6+PE	Blue	Solder	Silver	361-1357-ND	13.77	12.96	11.75	C016 30K006 100 10
	6+PE	Black	Solder	Silver	361-1358-ND	13.77	12.96	11.75	C016 30K006 100 12

Fig.	No. of Pos.	Backshell Color	Term-ination	Contact Plating	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
				Female — Straight Cable Connectors					
2	3+PE	Blue	Screw	Silver	361-1361-ND	9.02	8.24	7.06	C016 20D003 100 10
	3+PE	Black	Screw	Silver	361-1084-ND	9.02	8.24	7.06	C016 20D003 100 12
	3+PE	Blue	Screw	Gold	361-1362-ND	14.84	13.73	12.32	C016 20D003 200 10
	3+PE	Black	Screw	Gold	361-1363-ND	14.84	13.73	12.32	C016 20D003 200 12
	6+PE	Black	Solder	Silver	361-1085-ND	10.80	9.99	8.97	C016 30D006 100 12
	6+PE	Blue	Solder	Silver	361-1368-ND	10.80	9.99	8.97	C016 30D006 100 10
	6+PE	Blue	Solder	Gold	361-1369-ND	13.46	12.68	11.49	C016 30D006 200 10
	6+PE	Black	Solder	Gold	361-1370-ND	13.33	12.55	11.37	C016 30D006 200 12
	6+PE	Black	Crimp	No Contacts	361-1086-ND	6.79	5.75	4.96	C016 10D006 000 12
				Female — Straight Cable Connectors with Internal Strain Relief					
2	3+PE	Blue	Screw	Silver	361-1364-ND	10.30	9.41	8.07	C016 20D003 110 10
	3+PE	Black	Screw	Silver	361-1365-ND	10.30	9.41	8.07	C016 20D003 110 12
	3+PE	Blue	Screw	Gold	361-1366-ND	13.79	12.98	11.76	C016 20D003 210 10
	3+PE	Black	Screw	Gold	361-1367-ND	13.79	12.98	11.76	C016 20D003 210 12
	6+PE	Blue	Solder	Silver	361-1371-ND	11.88	10.99	9.87	C016 30D006 110 10
	6+PE	Black	Solder	Silver	361-1372-ND	11.88	10.99	9.87	C016 30D006 110 12
	6+PE	Blue	Solder	Gold	361-1373-ND	14.04	13.22	11.98	C016 30D006 210 10
	6+PE	Black	Solder	Gold	361-1374-ND	13.96	13.14	11.91	C016 30D006 210 12
				Female — Right Angle Cable Connectors					
3	3+PE	Blue	Screw	Silver	361-1375-ND	13.96	13.14	11.91	C016 20F003 100 10
	3+PE	Black	Screw	Silver	361-1087-ND	13.96	13.14	11.91	C016 20F003 100 12
	6+PE	Blue	Solder	Silver	361-1376-ND	15.69	14.77	13.39	C016 30F006 100 10
	6+PE	Black	Solder	Silver	361-1088-ND	15.69	14.77	13.39	C016 30F006 100 12
	6+PE	Black	Crimp	No Contacts	361-1089-ND	11.50	10.64	9.55	C016 10F006 000 12
				Male — Receptacles					
4	3+PE	Black	Screw	Silver	361-1090-ND	8.55	7.24	6.26	C016 20C003 100 12
	3+PE	Black	Screw	Gold	361-1377-ND	11.20	10.36	9.30	C016 20C003 200 12
	6+PE	Black	Solder	Gold	361-1378-ND	13.38	12.38	11.11	C016 30C006 200 12
	6+PE	Black	Solder	Silver	361-1091-ND	9.38	8.57	7.35	C016 30C006 100 12
	6+PE	Black	Crimp	No Contacts	361-1092-ND	4.26	3.53	2.94	C016 10C006 000 12
				Female — Receptacles					
5	3+PE	Black	Screw	Silver	361-1081-ND	8.49	7.75	6.65	C016 20G003 100 12
	3+PE	Black	Screw	Gold	361-1359-ND	13.02	12.05	10.81	C016 20G003 200 12
	6+PE	Black	Solder	Silver	361-1082-ND	10.51	9.60	8.23	C016 30G006 100 12
	6+PE	Black	Solder	Gold	361-1360-ND	14.16	13.10	11.76	C016 30G006 200 12
	6+PE	Black	Crimp	No Contacts	361-1083-ND	4.12	3.41	2.84	C016 10G006 000 12
				Protective Caps					
6	For Male Receptacles				361-1093-ND†	6.73	5.70	4.93	C016 00U000 000 12
	For Male Cable Connectors				361-1094-ND†	7.41	6.27	5.42	C016 00U000 010 12
	For Female Receptacles				361-1148-ND	8.21	7.50	6.43	C016 00V000 000 12
	For Female Cable Connectors				361-1147-ND	7.19	5.96	4.96	C016 00V000 010 12

† Black

Color	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
		Colored Backshells			
Red	361-1379-ND	10.49	9.58	8.21	C016 20H003 800 11
White	361-1380-ND	10.49	9.58	8.21	C016 20H003 800 13
Yellow	361-1381-ND	10.49	9.58	8.21	C016 20H003 800 14
Orange	361-1382-ND	10.49	9.58	8.21	C016 20H003 800 15
Brown	361-1383-ND	10.49	9.58	8.21	C016 20H003 800 16
Green	361-1384-ND	10.49	9.58	8.21	C016 20H003 800 17
Violet	361-1385-ND	10.49	9.58	8.21	C016 20H003 800 18

Description	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
		Contacts			
Pin, Silver Plated, 26 - 20AWG	361-1095-ND	.85	.60	.46	VN01 016 0011 1
Pin, Silver Plated, 20 - 16AWG	361-1096-ND	.84	.60	.46	VN01 016 0004 1
Socket, Silver Plated, 26 - 20AWG	361-1097-ND	1.18	.83	.64	VN02 016 0003 1
Socket, Silver Plated, 20 - 16AWG	361-1098-ND	1.02	.80	.68	VN 02 016 0002 1
		Tools			
Crimp Tool for C016	361-1149-ND		60.97/1		FG 0300 146 1
Crimp Tool, Long Handle	361-1099-ND		159.43/1		TA 0000
Crimp Tool, Short Handle	361-1100-ND		149.90/1		TA 0500
Die Set, 20 - 16AWG	361-1101-ND		184.71/1		TA 0000 163
Die Set, 26 - 20AWG	361-1102-ND		182.09/1		TA 0000 202
Locator for VN02 016 0002 1	361-1104-ND		31.79/1		TA 0002 146 0001
Locator for VN01 016 0004/0011 1	361-1105-ND		31.83/1		TA 0002 016 0001

NEW! Amphenol SineSystems AT and AHD High Peformance Industrial and Diagnostic Grade Connectors

Fig. 1
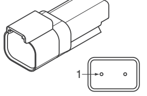

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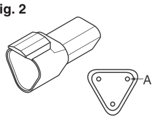

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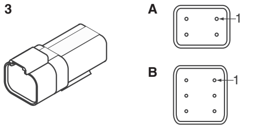

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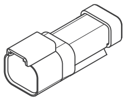

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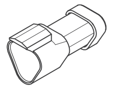

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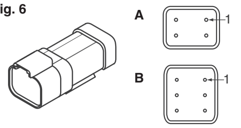

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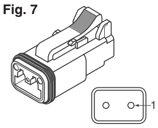

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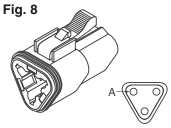

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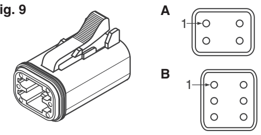

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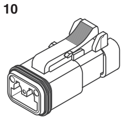

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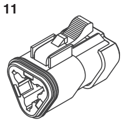

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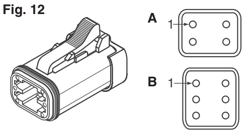

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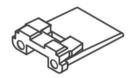

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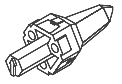

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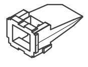

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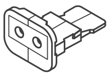

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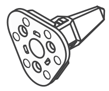

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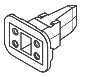

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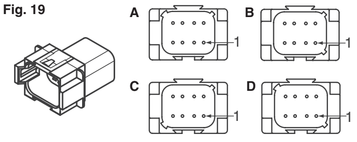

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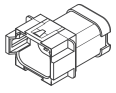

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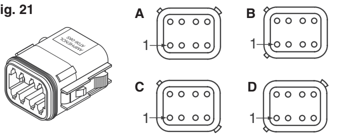

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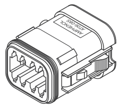

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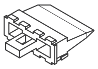

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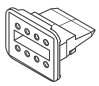

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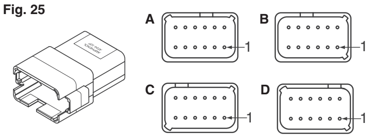

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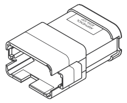

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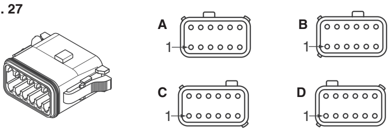

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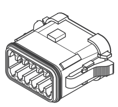

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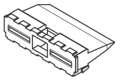

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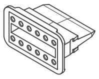

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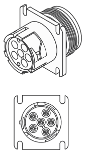

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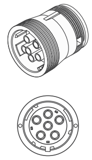

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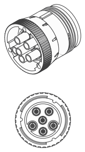

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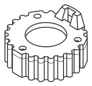

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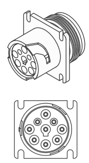

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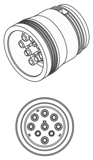

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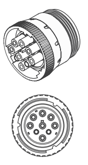

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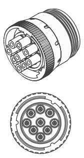

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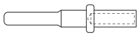

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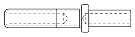

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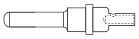

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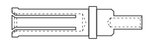

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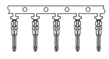

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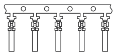

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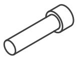

Fig.	Description	Position	Digi-Key Part No.	Pricing 1	25	50	Amphenol SineSystems Part No.
			AT Series				
			2, 3, 4 and 6 Position				
1	Receptacle, Pin	2	889-1000-ND	1.00	15.00	27.00	AT04-2P
2	Receptacle, Pin	3	889-1001-ND	.98	17.81	32.38	AT04-3P
3A	Receptacle, Pin	4	889-1002-ND	1.31	23.79	43.25	AT04-4P
3B	Receptacle, Pin	6	889-1003-ND	1.72	33.06	59.51	AT04-6P
4	Receptacle, Pin, End Cap	2	889-1024-ND	1.22	22.00	40.00	AT04-2P-EC01
5	Receptacle, Pin, End Cap	3	889-1025-ND	1.52	27.43	49.88	AT04-3P-EC01
6A	Receptacle, Pin, End Cap	4	889-1026-ND	1.64	31.63	56.93	AT04-4P-EC01
6B	Receptacle, Pin, End Cap	6	889-1027-ND	2.37	45.56	82.01	AT04-6P-EC01
7	Plug, Socket	2	889-1012-ND	1.18	17.63	31.73	AT06-2S
8	Plug, Socket	3	889-1013-ND	1.11	20.08	36.50	AT06-3S
9A	Plug, Socket	4	889-1014-ND	1.44	25.99	47.25	AT06-4S
9B	Plug, Socket	6	889-1015-ND	1.79	34.44	61.99	AT06-6S
10	Plug, Socket, End Cap	2	889-1030-ND	1.35	24.41	44.38	AT06-2S-EC01
11	Plug, Socket, End Cap	3	889-1031-ND	1.64	29.70	54.00	AT06-3S-EC01
12A	Plug, Socket, End Cap	4	889-1032-ND	1.75	33.63	60.53	AT06-4S-EC01
12B	Plug, Socket, End Cap	6	889-1033-ND	2.44	46.94	84.49	AT06-6S-EC01
13	Wedge for Receptacles	2	889-1036-ND	.35	3.63	5.51	AW2P
14	Wedge for Receptacles	3	889-1038-ND	.40	4.13	6.27	AW3P
15	Wedge for Receptacles	4	889-1040-ND	.48	5.17	8.48	AW4P
	Wedge for Receptacles	6	889-1042-ND	.60	6.53	10.72	AW6P
16	Wedge for Plugs	2	889-1037-ND	.47	4.88	7.41	AW2S
17	Wedge for Plugs	3	889-1039-ND	.37	4.00	6.56	AW3S
18	Wedge for Plugs	4	889-1041-ND	.59	6.34	10.40	AW4S
	Wedge for Plugs	6	889-1043-ND	.54	6.26	11.17	AW6S
			8 (A-D) Position				
19A	Receptacle, Pin	8 (A)	889-1004-ND	2.32	44.56	80.21	AT04-08PA
19B	Receptacle, Pin	8 (B)	889-1005-ND	3.19	61.44	110.59	AT04-08PB
19C	Receptacle, Pin	8 (C)	889-1006-ND	3.19	61.44	110.59	AT04-08PC
19D	Receptacle, Pin	8 (D)	889-1007-ND	3.19	61.44	110.59	AT04-08PD
20	Receptacle, Pin, with End Cap	8 (A)	889-1028-ND	2.97	57.06	102.71	AT04-08PA-EC01
21A	Plug, Socket	8 (A)	889-1016-ND	3.16	60.75	109.35	AT06-08SA
21B	Plug, Socket	8 (B)	889-1017-ND	3.60	69.86	124.20	AT06-08SB
21C	Plug, Socket	8 (C)	889-1018-ND	3.60	69.86	124.20	AT06-08SC
21D	Plug, Socket	8 (D)	889-1019-ND	3.60	69.86	124.20	AT06-08SD
22	Plug, Socket, End Cap	8 (A)	889-1034-ND	3.40	65.93	117.20	AT06-08SA-EC01
23	Wedge for Receptacles	8 (A-D)	889-1044-ND	.59	6.83	12.18	AW8P
24	Wedge for Plugs	8 (A-D)	889-1045-ND	.62	7.23	12.91	AW8S
			12 (A-D) Position				
25A	Receptacle, Pin	12 (A)	889-1008-ND	3.19	61.44	110.59	AT04-12PA
25B	Receptacle, Pin	12 (B)	889-1009-ND	3.63	70.48	125.30	AT04-12PB
25C	Receptacle, Pin	12 (C)	889-1010-ND	3.63	70.48	125.30	AT04-12PC
25D	Receptacle, Pin	12 (D)	889-1011-ND	3.63	70.48	125.30	AT04-12PD
26	Receptacle, Pin, with End Cap	12 (A)	889-1029-ND	3.46	67.11	119.30	AT04-12PA-EC01
27A	Plug, Socket	12 (A)	889-1020-ND	3.38	65.59	116.60	AT06-12SA
27B	Plug, Socket	12 (B)	889-1021-ND	4.16	80.78	143.60	AT06-12SB
27C	Plug, Socket	12 (C)	889-1022-ND	4.16	80.78	143.60	AT06-12SC
27D	Plug, Socket	12 (D)	889-1023-ND	4.16	80.78	143.60	AT06-12SD
28	Plug, Socket, End Cap	12(A)	889-1035-ND	3.99	77.40	137.60	AT06-12SA-EC01
29	Wedge for Receptacles	12 (A-D)	889-1046-ND	.59	6.83	12.18	AW12P
30	Wedge for Plugs	12 (A-D)	889-1047-ND	.59	6.83	12.18	AW12S
			AHD Series				
			6 Pin				
31	Receptacle - Military Style	6	889-1062-ND	6.58	127.58	226.80	AHD10-6-12P

† Cut Tape ‡ Tape and Reel

(Continued)

NEW! **Amphenol** SineSystems AT and AHD High Peformance Industrial and Diagnostic Grade Connectors *(Cont.)*

Fig.	Description	Position	Digi-Key Part No.	Pricing 1	25	50	Amphenol SineSystems Part No.
32	Smooth Shell Plug - DiagnosticGrade™	6	889-1064-ND	6.95	134.89	239.80	AHD16-6-12S
33	Locking Ring Plug - Military Style	6	889-1063-ND	7.02	141.75	256.50	AHD16-6-12S-B010
34	Receptacle Cap - Military Style	6	889-1065-ND	3.09	59.38	106.88	AHDC-16-6
	9 Pin						
35	Receptacle - Military Style	9	889-1142-ND	11.27	245.00	441.00	AHD10-9-1939P
36	Smooth Shell Plug - DiagnosticGrade	9	889-1061-ND	6.54	132.09	239.02	AHD17-9-1939S
37	Locking Ring Plug - Military Style	9	889-1059-ND	8.09	163.28	295.45	AHD16-9-1939S
38	Locking Ring Plug (Non J1939) - Military Style	9	889-1060-ND	8.09	163.28	295.45	AHD16-9-96S
	Pin Contacts, Socket Contacts and Tooling						
	Military Style — Solid Crimp						
39	Pin (Gold), 12 and 14AWG	12	889-1052-ND	1.03	18.56	33.75	AT60-220-1231
40	Socket (Gold), 12 and 14AWG	12	889-1053-ND	1.33	24.06	43.75	AT62-210-1231

Fig.	Description	Position	Digi-Key Part No.	Pricing 1	25	50	Amphenol SineSystems Part No.
	DiagnosticGrade — Solid Crimp						
41	Pin (Gold), 20AWG	16	889-1054-ND	.81	12.15	21.87	65-54756
	Pin (Gold), 20AWG	12	889-1056-ND	1.24	18.60	33.48	65-54749
42	Socket (Gold), 20AWG	16	889-1055-ND	1.07	16.05	28.89	65-54757
	Socket (Gold), 20AWG	12	889-1057-ND	1.19	21.52	39.13	65-54748
	AT and AHD Series Accessories						
	Stamped and Formed — Size 16						
43	Pin, 16-18AWG, Nickel	—	889-1048-1-ND†	.44	4.75	7.79	AT60-16-0122
	Pin, 16-18AWG, Nickel	—	889-1048-2-ND‡	264.00/4,000			AT60-16-0122
	Pin, 14-16AWG, Nickel	—	889-1050-1-ND†	.44	4.75	7.79	AT60-14-0122
	Pin, 14-16AWG, Nickel	—	889-1050-2-ND‡	264.00/4,000			AT60-14-0122
44	Socket, 16-18AWG, Nickel	—	889-1049-1-ND†	.41	7.36	13.37	AT62-16-0122
	Socket, 16-18AWG, Nickel	—	889-1049-2-ND‡	544.00/4,000			AT62-16-0122
	Socket, 14-16AWG, Nickel	—	889-1051-1-ND†	.41	7.36	13.37	AT62-14-0122
	Socket, 14-16AWG, Nickel	—	889-1051-2-ND‡	544.00/4,000			AT62-14-0122
45	Sealing Plug	—	889-1058-ND	.26	2.75	4.18	A114017

† Cut Tape ‡ Tape and Reel

MotionGrade™ M23 and M40 Connectors Designed for Demanding Environment Industrial Applications

Fig. 1

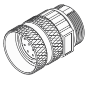

Fig. 2

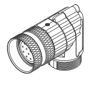

Fig. 3

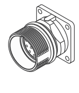

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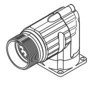

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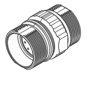

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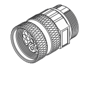

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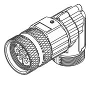

Fig. 8

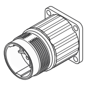

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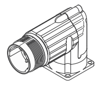

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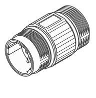

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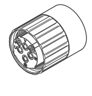

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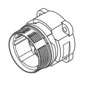

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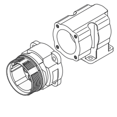

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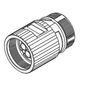

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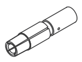

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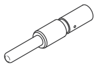

Fig. 17

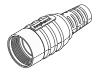

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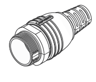

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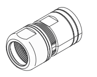

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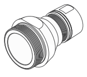

M23 A Series

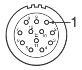

12 Position, E Type

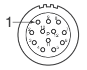

12 Position, P Type

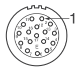

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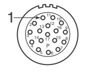

17 Position, P Type

M23 B Series

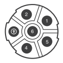

6 Position

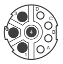

8 Position

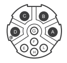

9 Position

M40 C Series

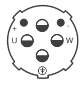

6 Position

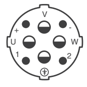

8 Position

Fig.	Description	Posi-tion	Insert Type	Digi-Key Part No.	Price Each 1	25	50	Amphenol SineSystems Part No.
	M23 Signal Solutions — A Series							
1	Straight Plugs (less contacts)	12	E	889-1068-ND	7.67	6.20	5.61	MA1CAE1200
	Straight Plugs (less contacts)	12	P	889-1069-ND	7.70	6.22	5.63	MA1CAP1200
	Straight Plugs (less contacts)	17	E	889-1067-ND	7.77	6.28	5.69	MA1CAE1700
	Straight Plugs (less contacts)	17	P	889-1066-ND	7.80	6.30	5.70	MA1CAP1700
2	Rotatable 90° Plugs (less contacts)	12	E	889-1070-ND	11.48	10.05	9.53	MA1EAE1200
	Rotatable 90° Plugs (less contacts)	12	P	889-1071-ND	11.52	10.08	9.57	MA1EAP1200
	Rotatable 90° Plugs (less contacts)	17	E	889-1073-ND	11.64	10.19	9.67	MA1EAE1700
	Rotatable 90° Plugs (less contacts)	17	P	889-1072-ND	11.64	10.19	9.67	MA1EAP1700
3	Straight Receptacles (less contacts)	12	E	889-1078-ND	6.99	5.43	4.82	MA1LAE1200
	Straight Receptacles (less contacts)	12	P	889-1079-ND	6.99	5.43	4.82	MA1LAP1200
	Straight Receptacles (less contacts)	17	E	889-1081-ND	7.16	5.56	4.94	MA1LAE1700
	Straight Receptacles (less contacts)	17	P	889-1080-ND	7.16	5.56	4.94	MA1LAP1700
4	Rotatables 90° Recept. (less contacts)	12	E	889-1084-ND	10.74	9.34	8.41	MA1RAE1200
	Rotatables 90° Recept. (less contacts)	12	P	889-1085-ND	10.74	9.34	8.41	MA1RAP1200
	Rotatables 90° Recept. (less contacts)	17	E	889-1083-ND	10.72	9.32	8.39	MA1RAE1700
	Rotatables 90° Recept. (less contacts)	17	P	889-1082-ND	10.88	9.46	8.52	MA1RAP1700
5	Extensions (less contacts)	12	E	889-1074-ND	6.53	5.28	4.77	MA1JAE1200
	Extensions (less contacts)	12	P	889-1075-ND	6.53	5.28	4.77	MA1JAP1200
	Extensions (less contacts)	17	E	889-1077-ND	6.66	5.38	4.87	MA1JAE1700
	Extensions (less contacts)	17	P	889-1076-ND	6.71	5.42	4.91	MA1JAP1700
	M23 Power Solutions — B Series							
6	Straight Plugs (less contacts)	6	—	889-1088-ND	8.45	6.83	6.18	MB1CKN0600
	Straight Plugs (less contacts)	8	—	889-1086-ND	8.55	6.91	6.26	MB1CKN0800
	Straight Plugs (less contacts)	9	—	889-1087-ND	8.53	6.89	6.24	MB1CKN0900
7	Rotatable 90° Plugs (less contacts)	6	—	889-1090-ND	12.70	11.12	10.55	MB1EJN0600
	Rotatable 90° Plugs (less contacts)	8	—	889-1089-ND	12.78	11.19	10.61	MB1EJN0800
	Rotatable 90° Plugs (less contacts)	9	—	889-1091-ND	12.76	11.17	10.60	MB1EJN0900
8	Straight Receptacles (less contacts)	6	—	889-1093-ND	6.53	5.28	4.77	MB1LLN0600
	Straight Receptacles (less contacts)	8	—	889-1092-ND	6.66	5.38	4.87	MB1LLN0800
	Straight Receptacles (less contacts)	9	—	889-1094-ND	6.60	5.34	4.83	MB1LLN0900
9	Rotatable 90° Recept. (less contacts)	6	—	889-1096-ND	10.56	9.18	8.27	MB1RJN0600
	Rotatable 90° Recept. (less contacts)	8	—	889-1095-ND	11.18	9.72	8.75	MB1RJN0800
	Rotatable 90° Recept. (less contacts)	9	—	889-1097-ND	10.56	9.18	8.27	MB1RJN0900
10	Extensions (less contacts)	6	—	889-1100-ND	6.93	5.38	4.78	MB1JJN0600
	Extensions (less contacts)	8	—	889-1098-ND	6.50	5.25	4.75	MB1JJN0800
	Extensions (less contacts)	9	—	889-1099-ND	6.93	5.38	4.78	MB1JJN0900
	M40 Power Solutions — C Series							
11	Straight Plugs (less contacts)	6	—	889-1122-ND	12.46	10.91	10.35	MC1CJN0600
	Straight Plugs (less contacts)	8	—	889-1123-ND	12.46	10.91	10.35	MC1CJN0800
12	Straight Receptacles (less contacts)	6	—	889-1126-ND	9.48	8.24	7.42	MC1LKN0600
	Straight Receptacles (less contacts)	8	—	889-1127-ND	9.48	8.24	7.42	MC1LKN0800
13	Fixed 90° Receptacles (less contacts)	6	—	889-1128-ND	14.01	12.82	11.95	MC1NJN0600
	Fixed 90° Receptacles (less contacts)	8	—	889-1129-ND	14.01	12.82	11.95	MC1NJN0800
14	Extensions (less contacts)	6	—	889-1124-ND	10.86	9.44	8.50	MC1JJN0600
	Extensions (less contacts)	8	—	889-1125-ND	10.93	9.50	8.55	MC1JJN0800

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Amphenol SineSystems Part No.
	Sockets for M23 Signal and M23/M40 Power Solutions					
15	RockSolid™ Crimp Sockets, 1.0mm	889-1116-ND	1.15	.69	.63	SC000013
	RockSolid Crimp Sockets, 2.0mm	889-1117-ND	1.66	1.28	1.15	SC000014
	RockSolid Crimp Sockets, 3.6mm	889-1138-ND	4.06	3.15	2.80	SC000039
	Slit Machined Crimp Sockets, 1.0mm	889-1120-ND	.70	.33	.29	SC000044
	Slit Machined Crimp Sockets, 2.0mm	889-1121-ND	1.10	.80	.73	SC000045
	Slit Machined Crimp Sockets, 3.6mm	889-1141-ND	2.67	2.05	1.85	SC000046
	Pins for M23 Signal and M23/M40 Power Solutions					
16	Machined Crimp Pins, 1.0mm	889-1118-ND	.84	.39	.35	SC000035
	Machined Crimp Pins, 2.0mm	889-1119-ND	.95	.69	.63	SC000036
	Machined Crimp Pins, 2.0mm	889-1139-ND	1.10	.80	.73	SC000040
	Machined Crimp Pins, 3.6mm	889-1140-ND	2.31	1.78	1.60	SC000041
	FlexGrip™ Backshells					
	For M23 A Series					
17	Flexible Strain Relief, 8.5mm	889-1105-ND	4.03	3.13	2.78	MA4FSR-A8.5
	Flexible Strain Relief, 10.5mm	889-1106-ND	4.03	3.13	2.78	MA4FSR-A10.5
	Flexible Strain Relief, 12.8mm	889-1107-ND	4.03	3.13	2.78	MA4FSR-A12.8
	For M23 B Series					
17	Flexible Strain Relief, 10.3mm	889-1112-ND	4.18	3.24	2.88	MB4FSR-B10.3
	Flexible Strain Relief, 12.5mm	889-1113-ND	4.18	3.24	2.88	MB4FSR-B12.5
	Flexible Strain Relief, 14.5mm	889-1114-ND	4.38	3.40	3.02	MB4FSR-B14.5
	Flexible Strain Relief, 17mm	889-1115-ND	5.42	4.21	3.74	MB4FSR-B17
	For M40 C Series					
18	Flexible Strain Relief, 18.5mm	889-1137-ND	8.53	7.42	6.68	MC4FSR-C18.5
	Cord Grips					
	For M23 A Series					
19	Traditional Cord Grips, 4.5 ~ 7.5mm	889-1101-ND	6.50	5.04	4.48	MA3CG-S1
	Traditional Cord Grips, 7.5 ~ 10mm	889-1102-ND	6.50	5.04	4.48	MA3CG-S2
	Traditional Cord Grips, 10 ~ 12.5mm	889-1103-ND	7.16	5.56	4.94	MA3CG-S3
	For M23 B Series					
19	Traditional Cord Grips, 7.5 ~ 10mm	889-1108-ND	7.05	5.47	4.86	MB3CG-S1
	Traditional Cord Grips, 10 ~ 12.5mm	889-1109-ND	7.22	5.61	4.98	MB3CG-S2
	Traditional Cord Grips, 15 ~ 17mm	889-1110-ND	7.25	5.86	5.31	MB3CG-S3
	For M40 C Series					
20	Traditional Cord Grips, 9 ~ 12.5mm	889-1130-ND	9.05	7.31	6.62	MC3CG-S1
	Traditional Cord Grips, 12.5 ~ 15mm	889-1131-ND	9.00	7.27	6.58	MC3CG-S2
	Traditional Cord Grips, 14.5 ~ 17mm	889-1132-ND	8.71	7.04	6.37	MC3CG-S3
	Traditional Cord Grips, 17 ~ 19.5mm	889-1133-ND	10.66	9.33	8.85	MC3CG-S4
	Traditional Cord Grips, 19 ~ 21.5mm	889-1134-ND	10.70	9.37	8.89	MC3CG-S5
	Traditional Cord Grips, 21.5 ~ 24mm	889-1135-ND	11.43	9.94	8.95	MC3CG-S6
	Traditional Cord Grips, 23.5 ~ 26mm	889-1136-ND	11.43	9.94	8.95	MC3CG-S7

Amphenol®
Amphenol-Tuchel Electronics GmbH

C091 A and C091 D – IP 67 Circular Connectors

E 63093

Features: • Internal metal strain relief with half shell construction and snap-in latching • Complete EMI shielding in fully mated and locked position • Solder termination
Specifications: • Metal threaded coupling is nickel plated • Contact plating is silver • **C091 A:** Plastic Backshell • **C091 D:** Metal Backshell – IP 67

Fig. 1

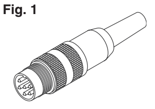

Fig. 2

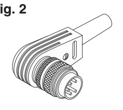

Fig. 3

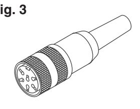

Fig. 4

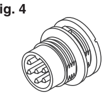

Fig. 5

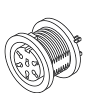

Fig. 6

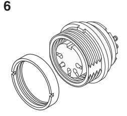

Fig. 7

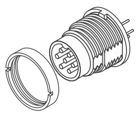

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
C091 A Series						
Male Cable Mount, Solder Type						
1	2	361-1213-ND◆	10.10	9.22	7.91	T 3200 001
	2	361-1214-ND◆‡	10.47	9.56	8.19	T 3200 018
	3 DIN	361-1215-ND◆‡	10.08	9.33	8.37	T 3260 018
	3 DIN	361-1044-ND	10.42	9.52	8.16	T 3260 001
	4 IEC	361-1216-ND◆‡	10.70	9.77	8.37	T 3300 018
	4 IEC	361-1045-ND	10.95	10.00	8.57	T 3300 001
	5	361-1217-ND◆‡	11.20	10.23	8.77	T 3360 018
	5	361-1046-ND◆	10.72	9.79	8.39	T 3360 001
	5 S DIN	361-1047-ND◆	11.32	10.48	9.40	T 3360 010
	6 DIN	361-1218-ND◆‡	12.48	11.55	10.36	T 3400 018
	6 DIN	361-1048-ND	10.10	9.35	8.39	T 3400 001
	7 DIN	361-1220-ND◆	10.36	9.59	8.60	T 3484 001
	7	361-1219-ND◆‡	11.92	11.03	9.90	T 3475 018
	7	361-1049-ND◆	10.70	9.90	8.89	T 3475 001
	8 DIN	361-1221-ND◆‡	10.42	9.64	8.65	T 3504 018
	8 DIN	361-1050-ND	11.32	10.34	8.86	T 3504 001
	12	361-1222-ND◆‡	17.60	17.01	15.84	T 3635 000
	12	361-1051-ND	17.85	17.26	16.07	T 3635 001
	14	361-1052-ND	18.87	18.25	16.99	T 3650 001
Male Right Angle Cable Mount — RoHS Compliant						
2	2	361-1224-ND	16.75	15.76	14.29	T 3200 005
	3 DIN	361-1225-ND	16.01	15.08	13.66	T 3260 005
	4 IEC	361-1226-ND	16.15	15.20	13.78	T 3300 005
	5	361-1227-ND	16.32	15.36	13.92	T 3360 005
	5 S DIN	361-1228-ND	16.13	15.59	14.52	T 3356 005
	6 DIN	361-1229-ND	16.59	15.62	14.16	T 3400 005
	7	361-1230-ND	16.73	15.75	14.27	T 3475 005
	7 DIN	361-1231-ND	16.83	15.84	14.36	T 3484 005
	8 DIN	361-1232-ND	15.05	14.55	13.55	T 3504 005
	12	361-1233-ND	24.41	23.60	21.97	T 3635 005
	14	361-1234-ND	25.55	24.70	23.00	T 3650 005
Female Cable Mount, Solder Type						
3	2	361-1235-ND◆	10.78	9.98	8.95	T 3201 001
	3 DIN	361-1053-ND	11.02	10.20	9.15	T 3261 001
	4 IEC	361-1054-ND◆	10.02	9.27	8.32	T 3301 001
	5	361-1055-ND	10.82	10.01	8.99	T 3361 001
	5 S DIN	361-1056-ND◆	12.28	11.36	10.20	T 3361 010
	6 DIN	361-1057-ND	11.10	10.27	9.22	T 3401 001
	7 DIN	361-1236-ND◆	14.60	13.51	12.12	T 3485 001
	7	361-1058-ND	12.30	11.38	10.21	T 3476 001
	8 DIN	361-1059-ND	13.00	12.03	10.79	T 3505 001
Male Receptacles, Front Panel Mount (With Ring Nut)						
4	3 DIN	361-1071-ND	6.47	5.36	4.46	T 3262 000
	4 IEC	361-1072-ND	6.70	5.55	4.62	T 3302 000
	5	361-1283-ND◆§	7.38	6.25	5.40	T 3362 400
	5	361-1073-ND	7.05	5.84	4.86	T 3362 000
	6 DIN	361-1075-ND	7.59	6.43	5.55	T 3402 000
	7	361-1284-ND◆§	10.40	9.50	8.14	T 3477 400
	7	361-1076-ND	7.07	5.99	5.17	T 3477 000
	8 DIN	361-1077-ND	8.01	6.78	5.86	T 3506-000
Male Receptacles, Front Panel Mount (With Hex Nut) — RoHS Compliant						
4	3 DIN	361-1275-ND	6.90	5.72	4.76	T 3262 009
	4 IEC	361-1276-ND	6.97	5.90	5.10	T 3302 009
	5	361-1277-ND	6.84	5.79	5.00	T 3362 009
	6 DIN	361-1278-ND	6.81	5.77	4.98	T 3402 009
	7	361-1279-ND	7.75	6.56	5.67	T 3477 009
	8 DIN	361-1280-ND	8.01	6.78	5.86	T 3506 009
	12	361-1281-ND	15.10	14.21	12.88	T 3637 009
	14	361-1282-ND	15.05	14.55	13.55	T 3652 009
Female Receptacles, Front Panel Mount (With Ring Nut)						
5	2	361-1237-ND◆	8.42	7.69	6.59	T 3203 000
	2	361-1238-ND◆‡	9.59	8.76	7.51	T 3203 018
	3 DIN	361-1239-ND◆‡	7.54	6.38	5.51	T 3263 018
	3 DIN	361-1062-ND◆	6.63	5.61	4.85	T 3263 000
	4 IEC	361-1240-ND◆‡	8.40	7.11	6.14	T 3303 018
	4 IEC	361-1063-ND	6.71	5.68	4.91	T 3303 000
	5	361-1241-ND◆‡	9.05	7.66	6.62	T 3363 018
	5	361-1064-ND◆	7.22	5.98	4.98	T 3363 000
	5 S DIN	361-1242-ND◆‡	10.33	9.43	8.09	T 3359 018
	6 DIN	361-1243-ND◆‡	8.60	7.86	6.74	T 3403 018
	6 DIN	361-1066-ND	7.20	6.10	5.27	T 3403 000
	7 DIN	361-1245-ND◆	10.93	9.98	8.55	T 3487 000
	7	361-1067-ND	7.20	6.10	5.27	T 3478 000
	7	361-1244-ND◆‡	9.27	8.47	7.26	T 3478 018
	8 DIN	361-1246-ND◆‡	14.35	13.51	12.24	T 3507 018
	8 DIN	361-1068-ND	9.82	8.97	7.69	T 3507 000
	12	361-1247-ND◆‡	15.64	14.72	13.34	T 3638 004
	12	361-1069-ND	13.79	12.98	11.76	T 3638 000
	14	361-1248-ND◆‡	15.05	14.55	13.55	T 3653 004
	14	361-1070-ND	15.71	14.79	13.40	T 3653 000
Female Receptacles, Front Panel Mount (With Hex Nut) — RoHS Compliant						
5	2	361-1249-ND	9.15	8.36	7.17	T 3203 009
	3 DIN	361-1250-ND	6.97	5.90	5.10	T 3263 009
	4 IEC	361-1251-ND	6.73	5.70	4.93	T 3303 009
	5	361-1252-ND	6.94	5.88	5.08	T 3363 009
	5 S DIN	361-1253-ND	8.46	7.73	6.63	T 3359 009
	6 DIN	361-1254-ND	7.70	6.52	5.63	T 3403 009
	7 DIN	361-1256-ND	11.39	10.40	8.91	T 3487 009
	7	361-1255-ND	7.70	6.52	5.63	T 3478 009
	8 DIN	361-1257-ND	10.72	9.79	8.39	T 3507 009
	12	361-1258-ND	14.33	13.49	12.23	T 3638 009
	14	361-1259-ND	16.03	15.09	13.68	T 3653 009
Female Receptacles, Rear Panel Mount — RoHS Compliant						
6	3 DIN	361-1260-ND	6.79	5.75	4.96	T 3263 100
	3 DIN	361-1386-ND§	7.96	6.74	5.82	T 3263 400
	4 IEC	361-1261-ND	8.24	6.98	6.03	T 3303 100
	4 IEC	361-1270-ND§	8.50	7.20	6.22	T 3303 400
	5	361-1262-ND	8.37	7.65	6.56	T 3363 100
	5	361-1271-ND§	8.23	7.52	6.45	T 3363 400
	5 S DIN	361-1263-ND	8.12	7.42	6.36	T 3359 100
	6 DIN	361-1264-ND	9.43	8.61	7.38	T 3403 100
	6 DIN	361-1272-ND§	9.04	8.26	7.08	T 3403 400
	7	361-1265-ND	10.30	9.41	8.07	T 3478 100
	7	361-1273-ND§	9.82	8.97	7.69	T 3478 400
	7 DIN	361-1266-ND	10.10	9.35	8.39	T 3487 100
	8 DIN	361-1267-ND	10.53	9.62	8.25	T 3507 100
	8 DIN	361-1274-ND§	10.35	9.45	8.10	T 3507 400
	12	361-1268-ND	13.87	13.06	11.84	T 3638 100
	14	361-1269-ND	13.60	12.80	11.60	T 3653 100
C091 D Series – IP 67						
Male Cable Mount — RoHS Compliant						
1	3 DIN	361-1124-ND	16.91	16.35	15.22	C091 31H003 100 2
	4 IEC	361-1286-ND	17.04	16.48	15.34	C091 31H004 100 2
	5 DIN	361-1125-ND	15.87	15.35	14.29	C091 31H005 100 2
	6 DIN	361-1126-ND	17.46	16.88	15.72	C091 31H006 100 2
	7	361-1288-ND	17.60	17.01	15.84	C091 31H007 100 2
	7 DIN	361-1289-ND	17.69	17.10	15.92	C091 31H107 100 2
	8 DIN	361-1127-ND	17.93	17.33	16.14	C091 31H008 100 2
	12	361-1290-ND‡	21.50	20.78	19.35	C091 31H012 200 2
	14	361-1291-ND‡	22.22	21.48	20.00	C091 31H014 200 2
Male Right Angle Cable Mount — RoHS Compliant						
2	3 DIN	361-1320-ND	19.32	18.68	17.39	C091 31K003 100 2
	4 DIN	361-1321-ND	19.65	19.00	17.69	C091 31K004 100 2
	5 S DIN	361-1322-ND	19.77	19.12	17.80	C091 31K105 100 2
	5	361-1323-ND	19.56	18.91	17.61	C091 31K005 100 2
	6 DIN	361-1324-ND	19.98	19.32	17.99	C091 31K006 100 2
	7 DIN	361-1325-ND	20.18	19.51	18.16	C091 31K107 100 2
	7	361-1326-ND	20.10	19.43	18.09	C091 31K007 100 2
	8 DIN	361-1327-ND	20.37	19.70	18.34	C091 31K008 100 2
	12	361-1328-ND	22.56	21.81	20.31	C091 31K012 100 2
	14	361-1329-ND	22.22	21.48	20.00	C091 31K014 100 2
Female Cable Mount — RoHS Compliant						
3	3 DIN	361-1128-ND	17.79	17.20	16.02	C091 31D003 100 2
	4 IEC	361-1292-ND	17.72	17.13	15.95	C091 31D004 100 2
	5 S DIN	361-1293-ND	17.85	17.26	16.07	C091 31D105 100 2
	5 DIN	361-1129-ND	17.84	17.25	16.06	C091 31D005 100 2
	6 DIN	361-1130-ND	18.00	17.40	16.20	C091 31D006 100 2
	7 DIN	361-1295-ND	19.68	19.03	17.72	C091 31D107 100 2
	7	361-1294-ND	18.00	17.40	16.20	C091 31D007 100 2
	8 DIN	361-1131-ND	18.57	17.96	16.72	C091 31D008 100 2
	12	361-1296-ND‡	21.63	20.91	19.47	C091 31D012 200 2
	14	361-1297-ND‡	27.11	26.21	24.40	C091 31D014 200 2

◆ ***RoHS Compliant*** ‡ Gold Plated § Straight dip solder type

(Continued)

Amphenol®
Amphenol-Tuchel Electronics GmbH

C091 A and C091 D – IP 67 Circular Connectors *(Cont.)*

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
Male Receptacles, Front Panel Mount — RoHS Compliant						
4	3 DIN	361-1136-ND	8.92	7.55	6.52	C091 31W003 100 2
	4 IEC	361-1314-ND	8.05	7.35	6.30	C091 31W004 100 2
	5 S DIN	361-1315-ND	10.93	9.98	8.55	C091 31W105 100 2
	6 DIN	361-1138-ND	8.56	7.82	6.70	C091 31W006 100 2
	7 DIN	361-1317-ND	9.04	8.26	7.08	C091 31W107 100 2
	7	361-1316-ND	8.69	7.94	6.81	C091 31W007 100 2
	8 DIN	361-1139-ND	9.36	8.55	7.33	C091 31W008 100 2
	12	361-1318-ND‡	14.98	14.10	12.78	C091 31W012 200 2
	14	361-1319-ND‡	15.93	15.00	13.59	C091 31W014 200 2
Female Receptacles, Front Panel Mount — RoHS Compliant						
5	3 DIN	361-1132-ND	9.48	8.66	7.42	C091 31N003 100 2
	4 IEC	361-1298-ND	9.41	8.59	7.37	C091 31N004 100 2
	5 S DIN	361-1299-ND	11.09	10.13	8.68	C091 31N105 100 2
	5 DIN	361-1133-ND	9.55	8.72	7.47	C091 31N005 100 2
	6 DIN	361-1134-ND	9.57	8.74	7.49	C091 31N006 100 2
	7 DIN	361-1301-ND	10.62	9.83	8.82	C091 31N107 100 2
	7	361-1300-ND	9.91	9.06	7.76	C091 31N007 100 2
	8 DIN	361-1135-ND	11.86	10.98	9.85	C091 31N008 100 2
	12	361-1302-ND‡	14.69	13.83	12.53	C091 31N012 200 2
	14	361-1303-ND‡	15.79	14.87	13.48	C091 31N014 200 2
Female Receptacles, Rear Panel Mount — RoHS Compliant						
6	3 DIN	361-1304-ND	9.29	8.49	7.28	C091 31G003 100 2
	4 IEC	361-1305-ND	9.20	8.40	7.20	C091 31G004 100 2
	5 S DIN	361-1307-ND	11.16	10.19	8.73	C091 31G105 100 2
	5	361-1306-ND	9.11	8.32	7.13	C091 31G005 100 2
	6 DIN	361-1308-ND	9.29	8.49	7.28	C091 31G006 100 2
	7 DIN	361-1310-ND	10.68	9.88	8.87	C091 31G107 100 2
	7	361-1309-ND	9.82	8.97	7.69	C091 31G007 100 2
	8 DIN	361-1311-ND	11.24	10.40	9.33	C091 31G008 100 2
	12	361-1312-ND‡	15.05	14.16	12.84	C091 31G012 200 2
	14	361-1313-ND‡	16.67	16.11	15.00	C091 31G014 200 2
Male Receptacles, Rear Panel Mount — RoHS Compliant						
7	3 DIN	361-1140-ND	8.74	7.98	6.84	C091 31C003 100 2
	5 DIN	361-1141-ND	9.66	8.82	7.56	C091 31C005 100 2
	6 DIN	361-1142-ND	9.36	8.55	7.33	C091 31C006 100 2
	8 DIN	361-1143-ND	10.05	9.18	7.87	C091 31C008 100 2
Female Right Angle Cable Mount — RoHS Compliant						
—	3 DIN	361-1330-ND	21.38	20.67	19.24	C091 31F003 100 2
	4 DIN	361-1331-ND	21.32	20.61	19.19	C091 31F004 100 2
	5 S DIN	361-1332-ND	22.47	21.73	20.23	C091 31F105 100 2
	5	361-1333-ND	21.18	20.48	19.07	C091 31F005 100 2
	6 DIN	361-1334-ND	21.56	20.84	19.40	C091 31F006 100 2
	7 DIN	361-1335-ND	24.20	23.39	21.78	C091 31F107 100 2
	7	361-1336-ND	21.56	20.84	19.40	C091 31F007 100 2
	8DIN	361-1337-ND	24.24	23.44	21.82	C091 31F008 100 2
	12	361-1338-ND	27.17	26.26	24.45	C091 31F012 100 2
	14	361-1339-ND	28.13	27.19	25.32	C091 31F014 100 2
Tools						
Spanner Wrench Cable Side		361-1144-ND	17.57/1			FH 0300 091
Spanner Wrench Receptacles		361-1145-ND	11.42/1			N 45 091 0001

◆ ***RoHS Compliant*** ‡ Gold Plated § Straight dip solder type

44 Series Circular Connectors – IP 65/67

Features: • Long time resistance against environmental impacts • 3 liquid-proof seals • Quick and easy assembly • Quick and easy mating • Protection class IP 65/67 • High reliability • Discrete wire interconnection • Crimp termination • 1, 2, 3, 4, 5, and 6 contact configurations available • Mated Dimension: 56.33mm

Fig. 1

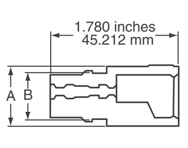

Fig. 2

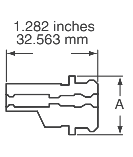

Insert Configurations

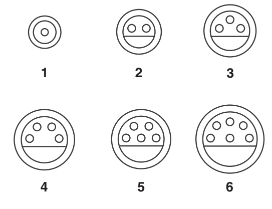

Fig.	No. of Pos.	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
Receptacle								
1	1	0.50 (12.62)	0.44 (11.18)	361-1106-ND	5.39	4.47	3.72	044 104 10001 02
	2	0.61 (15.42)	0.47 (11.94)	361-1107-ND	4.61	3.82	3.18	044 104 10002 02
	3	0.71 (17.98)	0.57 (14.48)	361-1108-ND	5.42	4.49	3.74	044 104 10003 02
1	4	0.82 (20.80)	0.68 (17.32)	361-1109-ND	5.66	4.68	3.90	044 104 10004 02
	5	0.82 (20.80)	0.68 (17.32)	361-1110-ND	4.70	3.89	3.24	044 104 10005 02
	6	0.93 (23.70)	0.80 (20.22)	361-1111-ND	6.67	5.52	4.60	044 104 10006 02
Plug								
2	1	0.50 (12.62)	—	361-1112-ND	5.66	4.68	3.90	044 103 10001
	2	0.61 (15.42)	—	361-1113-ND	3.83	3.17	2.64	044 103 10002
	3	0.71 (17.98)	—	361-1114-ND	4.50	3.72	3.10	044 103 10003
	4	0.82 (20.80)	—	361-1115-ND	6.00	4.97	4.14	044 103 10004
	5	0.82 (20.80)	—	361-1116-ND	2.80	2.33	1.94	044 103 10005
	6	0.93 (23.70)	—	361-1117-ND	6.21	5.14	4.28	044 103 10006

Contacts

Description	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
Pin, 14-18AWG, Tin	361-1118-ND	1.17	.92	.78	44-100-1414P-100(101)
Socket, 14-18AWG, Tin	361-1119-ND	1.91	1.59	1.33	044 102 1414S 100 (101)

Tools

Description	Digi-Key Part No.	Price Each	Amphenol-Tuchel Part No.
Crimp for 14-18AWG, pin/socket	361-1120-ND	444.74	357-588
Insertion Tool for pin/socket	361-1121-ND	107.67	356-258
Removal Tool for pin	361-1122-ND	107.67	356-259
Removal Tool for socket	361-1123-ND	107.67	356-260

Switchcraft®

EN3® Mini Weathertight Connectors

Features:
• No grommets, cable clamp assembly features living hinges, which snap easily onto and hold the cable • Housing rated UL 94V-0 against flammability • Panel connector shell features a positioning keyway to prevent misalignments • 2 ~ 8 pins • Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20) • Optional cap covers the panel housing assembly when not in use • Contact terminal: Solder cup contacts • Choose cord plug, in-line or panel mount

Applications:
• Process control • Communications • Marine electronics • Transportation • Medical instrumentation • General industrial electronics • Geothermal instrumentation • Harsh environments

Specifications:
Mechanical: • Shock: Mil-Std 202 Method 213B condition K • Vibration: Mil-Std 202 Method 201 • Life: 600 insertion/withdrawal cycles (minimum) **Electrical**: • Voltage Rating (sea level): Tested at 600 VRMS • Insulation Resistance: 100MΩ (minimum) at 77°F (25°C) • Contact Resistance: 5mΩ (maximum) • Current Rating: 7.5 Amps (#20 contact) **Environmental**: • Temperature Limits: -40°C ~ 65°C (non-operating) • Moisture Resistance: Mil-Std 202 Method 106F • Insulation Resistance: Mil-Std 202 Method 302 condition B • Thermal Shock: Mil-Std 202 Method 107G • Salt Spray: Mil-Std 202 Method 101D condition B

Fig. 1

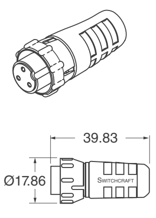

Fig. 2

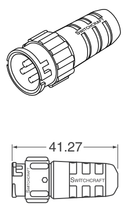

Fig. 3

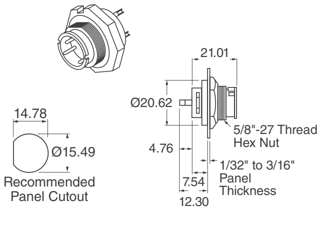

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
Plugs							
1	3	Female	SC251-ND◆	7.06	5.30	4.86	EN3C3FX
	3	Male	SC252-ND◆	5.04	3.79	3.48	EN3C3MX
	4	Female	SC253-ND◆	8.26	6.20	5.69	EN3C4FX
	4	Male	SC254-ND◆	5.76	4.33	3.97	EN3C4MX
	5	Female	SC255-ND◆	9.14	6.86	6.29	EN3C5FX
	5	Male	SC256-ND◆	6.27	4.71	4.32	EN3C5MX
	6	Female	SC257-ND◆	11.01	8.26	7.57	EN3C6FX
	6	Male	SC1163-ND	6.96	5.22	4.79	EN3C6M
	6	Male	SC258-ND◆	6.96	5.22	4.79	EN3C6MX
	8	Female	SC259-ND◆	13.85	10.39	9.53	EN3C8FX
In-Line Receptacles							
2	3	Female	SC269-ND◆	6.76	5.07	4.65	EN3L3FX
	3	Male	SC270-ND◆	4.71	3.54	3.24	EN3L3MX

◆ ***RoHS Compliant***

(Continued)

Switchcraft®

EN3® Mini Weathertight Connectors *(Cont.)*

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
2	4	Female	SC271-ND◆	7.73	5.80	5.32	EN3L4FX
	4	Male	SC272-ND◆	5.60	4.20	3.86	EN3L4MX
	5	Female	SC273-ND◆	8.93	6.70	6.15	EN3L5FX
	5	Male	SC1180-ND	6.14	4.61	4.22	EN3L5M
	5	Male	SC274-ND◆	6.46	4.85	4.45	EN3L5MX
	6	Female	SC275-ND◆	10.16	7.62	6.99	EN3L6FX
	6	Male	SC276-ND◆	7.15	5.37	4.92	EN3L6MX
	8	Male	SC277-ND◆	8.81	6.61	6.06	EN3L8MX
Panel-Mount Receptacles							
3	3	Female	SC260-ND◆	6.26	4.70	4.31	EN3P3FX
	3	Male	SC261-ND◆	4.51	3.39	3.11	EN3P3MX
	4	Female	SC262-ND◆	7.39	5.55	5.09	EN3P4FX
	4	Male	SC263-ND◆	4.96	3.72	3.41	EN3P4MX
	5	Female	SC264-ND◆	8.81	6.61	6.06	EN3P5FX
	5	Male	SC265-ND◆	6.00	4.50	4.13	EN3P5MX
	6	Female	SC266-ND◆	10.06	7.55	6.93	EN3P6FX
	6	Male	SC1172-ND	6.46	4.85	4.44	EN3P6M
	6	Male	SC267-ND◆	6.46	4.85	4.44	EN3P6MX
	8	Male	SC268-ND◆	8.26	6.20	5.69	EN3P8MX
Dust Cap							
—	—	—	SC1174-ND	1.46	1.10	1.01	EN3CAP

◆ ***RoHS Compliant***

EN3® Right Angle Weathertight Connectors

Features:

• Patented grommet and "O" ring free design allows for quick assembly • Gold plated pins and contacts with an integrated design ensures reliable and uninterrupted connectivity • The only IP68 rated right angle PCB mount connector on the market • No intermediate PC board • Available in 2 ~ 6 pin female and 2 ~ 8 pin male 20AWG pins and contacts only

Specifications:

Materials: • Panel Connector Shells and Locking Nut: Thermoplastic polymer, glass fiber, flame retardant • Connector Shell Interior: Thermoplastic rubber • Contacts: Copper base alloy gold-plated over nickel underplating **Mechanical**: • Shock: Mil-Std 202 Method 213B, condition K • Vibration: Mil-Std 202 Method 201 • Life: 600 insertion/withdraw cycles (minimum) **Electrical:** • Voltage Rating: Tested at 600 VRMS • Insulation Resistance: 100MΩ minimum at 77°F • Contact Resistance: 10mΩ maximum • Current Rating: 6.5A (#20 contact) 7 and 8 pin; 7.5A (#20 contact) 2 ~ 6 pin **Environmental:** • Temperature Limits: -40°C ~ 65°C (non-operating) • Moisture Resistance: Mil-Std 202 Method 106F • Insulation Resistance: Mil-Std 202 Method 302 condition B • Thermal Shock: Mil-Std 202 Method 107G • Salt Spray: Mil-Std 202 Method 101D condition B

Applications:

• Used in marine, medical, food service, transportation, GPS and general electronic applications **Product Ratings**: • IP16/IP18 (Unmated) • IP66/IP68 (Mated) • NEMA 250 (6P) • CFR 46 Part 110.20 • UL 94V-0

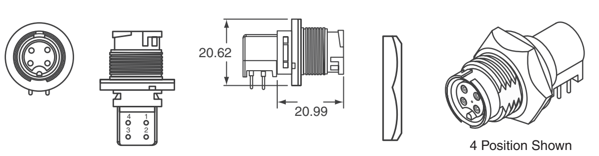

4 Position Shown

No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
3	Female	SC241-ND	11.61	8.71	7.98	EN3P3FRAPC
3	Male	SC242-ND	8.79	6.60	6.06	EN3P3MRAPC
4	Female	SC243-ND	13.86	10.39	9.54	EN3P4FRAPC
4	Male	SC244-ND	10.23	7.69	7.04	EN3P4MRAPC
5	Female	SC245-ND	16.46	12.35	11.32	EN3P5FRAPC
5	Male	SC246-ND	11.93	8.96	8.21	EN3P5MRAPC
6	Female	SC247-ND	18.93	14.20	13.02	EN3P6FRAPC
6	Male	SC248-ND	13.94	10.45	9.59	EN3P6MRAPC
7	Male	SC249-ND	15.33	11.51	10.55	EN3P7MRAPC
8	Male	SC250-ND	16.76	12.58	11.53	EN3P8MRAPC

conxall

A Switchcraft Company

Field Installable Connectors

Fig. 1
(Mates with Fig. 4 and 6)

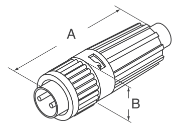

Fig. 2
(Mates with Fig. 3 and 5)

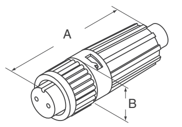

Fig. 3
(Mates with Fig. 2)

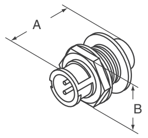

Fig. 4
(Mates with Fig. 1)

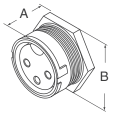

Fig. 5
(Mates with Fig. 2)

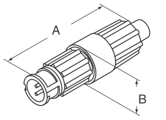

Fig. 6
(Mates with Fig. 1)

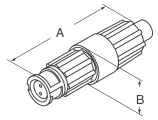

Fig. 7

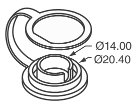

Conxall was an innovator in the design of all plastic cylindrical connectors. The all plastic connector provides for substantial savings in cost without sacrificing performance and quality.

The all plastic connector is corrosion resistant, non-conductive and withstands substantial abuse, hostile environments, and heavy impacts that would otherwise cause metal connectors to corrode, deform or become electrically conductive and thus become unusable or unsafe.

Specifications: • Voltage: 600V • Temperature Rating: -55°C ~ 125°C (-67°F ~ 257°F) • Contacts: Brass, gold over nickel • Watertight: NEMA 6P, 13: IEC IP67 • UL Recognized: File #E138878 - 250V • CSA Certified: File #LR89277 - 600V

Micro-Con-X®: • Rating: 3.0 ~ 7.5A, 600V • Conductor Size: 20 ~ 24AWG

Mini-Con-X®: • Rating: 4.8 ~ 13.0A, 600V • Conductor Size: 20 ~ 24AWG

Multi-Con-X®: • Rating: 1.95 ~ 23.0A, 600V • Conductor Size: #12 Contacts, 12 ~ 14AWG; #20 Contacts, 20 ~ 24AWG

Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20

Micro-Con-X® Series

No. of Pos.	Dim. (Inch) A	B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	10	25	Conxall Part No.
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.29	.530	0.14	SC1202-ND	4.33	3.25	2.97	16282-2PG-311
3	1.29	.530	0.14	SC1204-ND	5.12	3.84	3.51	16282-3PG-311
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.29	.530	0.14	SC1203-ND	5.01	3.76	3.45	16282-2SG-311
3	1.29	.530	0.14	SC1205-ND	6.12	4.60	4.20	16282-3SG-311
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.715	.715	—	SC1206-ND	3.18	2.39	2.19	17282-2PG-300
3	.715	.715	—	SC1208-ND	3.89	2.92	2.68	17282-3PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.715	.715	—	SC1207-ND	4.08	3.07	2.80	17282-2SG-300
3	.715	.715	—	SC1209-ND	5.08	3.82	3.50	17282-3SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.32	.500	0.14	SC1210-ND	3.03	2.28	2.08	18282-2PG-311
3	1.32	.500	0.14	SC1212-ND	4.62	3.47	3.18	18282-3PG-311
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.32	.500	0.14	SC1211-ND	4.74	3.56	3.28	18282-2SG-311
3	1.32	.500	0.14	SC1213-ND	5.86	4.41	4.04	18282-3SG-311

Mini-Con-X® Series

No. of Pos.	Dim. (Inch) A	B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	10	25	Conxall Part No.
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.315	.715	0.250	SC1262-ND	4.76	3.64	3.36	6282-2PG-3DC
3	1.315	.715	0.250	SC1264-ND	5.49	4.19	3.86	6282-3PG-3DC
4	1.315	.715	0.250	SC1266-ND	6.21	4.73	4.37	6282-4PG-3DC
5	1.315	.715	0.250	SC1268-ND	6.92	5.26	4.85	6282-5PG-3DC
6	1.315	.715	0.250	SC1270-ND	7.55	5.74	5.28	6282-6PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.315	.715	0.250	SC1263-ND	5.63	4.30	3.96	6282-2SG-3DC
3	1.315	.715	0.250	SC1265-ND	6.75	5.13	4.73	6282-3SG-3DC

(Continued)

Field Installable Connectors

Mini-Con-X® Series *(Cont.)*

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
4	1.315	.715	0.250	SC1267-ND	7.83	5.95	5.48	6282-4SG-3DC
5	1.315	.715	0.250	SC1269-ND	8.88	6.73	6.20	6282-5SG-3DC
6	1.315	.715	0.250	SC1271-ND	9.87	7.49	6.87	6282-6SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.675	.924	—	SC1272-ND	3.21	2.41	2.23	7282-2PG-300
3	.675	.924	—	SC1274-ND	3.96	2.97	2.73	7282-3PG-300
4	.675	.924	—	SC1276-ND	4.67	3.50	3.20	7282-4PG-300
5	.675	.924	—	SC1278-ND	5.32	3.99	3.65	7282-5PG-300
6	.675	.924	—	SC1280-ND	5.99	4.50	4.13	7282-6PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.675	.924	—	SC1273-ND	3.79	2.85	2.61	7282-2SG-300
3	.675	.924	—	SC1275-ND	4.79	3.61	3.31	7282-3SG-300
4	.675	.924	—	SC1277-ND	5.76	4.33	3.96	7282-4SG-300
5	.675	.924	—	SC1279-ND	6.70	5.02	4.62	7282-5SG-300
6	.675	.924	—	SC1281-ND	7.64	5.75	5.26	7282-6SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.395	.625	0.250	SC1282-ND	5.18	3.96	3.65	8282-2PG-3DC
3	1.395	.625	0.250	SC1284-ND	5.94	4.52	4.17	8282-3PG-3DC
4	1.395	.625	0.250	SC1286-ND	6.65	5.04	4.66	8282-4PG-3DC
5	1.395	.625	0.250	SC1288-ND	7.33	5.58	5.14	8282-5PG-3DC
6	1.395	.625	0.250	SC1290-ND	8.00	6.07	5.59	8282-6PG-3DC
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.395	.625	0.250	SC1283-ND	5.79	4.42	4.07	8282-2SG-3DC
3	1.395	.625	0.250	SC1285-ND	6.92	5.26	4.85	8282-3SG-3DC
4	1.395	.625	0.250	SC1287-ND	7.98	6.05	5.56	8282-4SG-3DC
5	1.395	.625	0.250	SC1289-ND	9.00	6.82	6.27	8282-5SG-3DC
6	1.395	.625	0.250	SC1291-ND	10.02	7.58	6.98	8282-6SG-3DC

Multi-Con-X® Series

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.57	.875	0.250	SC1214-ND	6.43	4.90	4.50	3182-2PG-3DC
3	1.57	.875	0.250	SC1216-ND	7.52	5.72	5.26	3182-3PG-3DC
4	1.57	.875	0.250	SC1218-ND	7.18	5.45	5.02	3282-4PG-3DC
5	1.57	.875	0.250	SC1220-ND	7.87	5.98	5.50	3282-5PG-3DC
6	1.57	.875	0.250	SC1222-ND	8.53	6.48	5.95	3282-6PG-3DC
7	1.57	.875	0.250	SC1224-ND	9.17	6.96	6.40	3282-7PG-3DC
8	1.57	.875	0.250	SC1226-ND	9.79	7.41	6.82	3282-8PG-3DC
9	1.57	.875	0.250	SC1228-ND	10.41	7.88	7.25	3282-9PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.57	.875	0.250	SC1215-ND	7.90	6.00	5.53	3182-2SG-3DC
3	1.57	.875	0.250	SC1217-ND	9.50	7.20	6.60	3182-3SG-3DC
4	1.57	.875	0.250	SC1219-ND	9.15	6.95	6.39	3282-4SG-3DC
5	1.57	.875	0.250	SC1221-ND	10.20	7.73	7.10	3282-5SG-3DC
6	1.57	.875	0.250	SC1223-ND	11.19	8.47	7.79	3282-6SG-3DC
7	1.57	.875	0.250	SC1225-ND	12.20	9.22	8.49	3282-7SG-3DC
8	1.57	.875	0.250	SC1227-ND	13.18	9.95	9.15	3282-8SG-3DC
9	1.57	.875	0.250	SC1229-ND	14.16	10.70	9.83	3282-9SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.625	1.155	—	SC1230-ND	4.53	3.40	3.12	4182-2PG-300
3	.625	1.155	—	SC1232-ND	5.65	4.24	3.89	4182-3PG-300
4	.625	1.155	—	SC1234-ND	5.24	3.93	3.61	4282-4PG-300
5	.625	1.155	—	SC1236-ND	5.94	4.45	4.10	4282-5PG-300
6	.625	1.155	—	SC1238-ND	6.59	4.95	4.53	4282-6PG-300
7	.625	1.155	—	SC1240-ND	7.24	5.44	4.98	4282-7PG-300
8	.625	1.155	—	SC1242-ND	7.86	5.91	5.41	4282-8PG-300
9	.625	1.155	—	SC1244-ND	8.47	6.34	5.81	4282-9PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.625	1.155	—	SC1231-ND	5.45	4.10	3.75	4182-2SG-300
3	.625	1.155	—	SC1233-ND	7.03	5.28	4.84	4182-3SG-300
4	.625	1.155	—	SC1235-ND	6.29	4.73	4.34	4282-4SG-300
5	.625	1.155	—	SC1237-ND	7.42	5.55	5.11	4282-5SG-300
6	.625	1.155	—	SC1239-ND	8.17	6.15	5.62	4282-6SG-300
7	1.65	.766	—	SC1241-ND	9.05	6.79	6.23	4282-7SG-300
8	1.65	.766	—	SC1243-ND	10.12	7.58	6.97	4282-8SG-300
9	1.65	.766	—	SC1245-ND	10.99	8.26	7.57	4282-9SG-300
Fig. 7 — Dust Cap for Multi-Con-X Connectors								
—	—	—	—	SC1332-ND	.89	.68	.62	4295

Harsh Environment IP66/IP68 Shielded Mini-Con-X® Connector

Features and Benefits: • Protects circuits from EMI and RF interference • Rugged machined metal housing and construction • Field installable • Scoop-proof connector design • Same panel cut-out as Mini-Con-X® • Also available over-molded

Specifications:

Materials: • Panel Shell, Cable Housing and Coupling Nuts: Nickel plated copper alloy • All Connector Inserts: Engineered Polyester Resin • Contacts: Gold plated copper alloy with nickel underplate • Backshell and Strap: G. F. Nylon • O-Rings: Neoprene • Screws: Stainless Steel • Grommet: Santoprene®

Electrical: • Voltage Rating: Tested at 600 VRMS • Current Ratings: 13A: 1 ~ 6, #16 contacts with 16AWG wire; 7.5A: 1 ~ 3, #20 contacts with 20AWG wire; 5.6A: 4 ~ 8, #20 contacts with 20AWG wire

Environmental: • Operating Temperature Limits: -40°C ~ 85°C (-40°F ~ 185°F)

Product Ratings: • IP66/IP68 (when mated)

Dimensions in Inches

Fig. 1

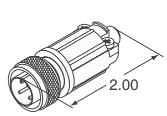

Fig. 2

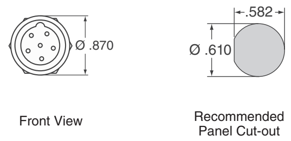

No. of Pos.	Description	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 1 — Cable End Pin, 20 AWG							
2	Male	.220	SC1333-ND	16.17	12.13	11.08	SF6282-2PG-520
3	Male	.220	SC1335-ND	16.98	12.74	11.63	SF6282-3PG-520
4	Male	.220	SC1337-ND	17.78	13.34	12.19	SF6282-4PG-520
5	Male	.220	SC1339-ND	18.59	13.94	12.74	SF6282-5PG-520
6	Male	.220	SC1341-ND	19.39	14.55	13.29	SF6282-6PG-520
7	Male	.220	SC1343-ND	20.20	15.15	13.84	SF6282-7PG-520
8	Male	.220	SC1345-ND	21.00	15.75	14.39	SF6282-8PG-520
Fig. 1 — Cable End Socket, 20 AWG							
2	Female	.220	SC1334-ND	17.45	13.09	11.96	SF6282-2SG-520
3	Female	.220	SC1336-ND	18.66	14.00	12.79	SF6282-3SG-520
4	Female	.220	SC1338-ND	19.87	14.90	13.61	SF6282-4SG-520
5	Female	.220	SC1340-ND	21.07	15.81	14.44	SF6282-5SG-520
6	Female	.220	SC1342-ND	22.28	16.71	15.27	SF6282-6SG-520
7	Female	.220	SC1344-ND	23.49	17.62	16.09	SF6282-7SG-520
8	Female	.220	SC1346-ND	24.69	18.52	16.92	SF6282-8SG-520
Fig. 1 — Cable End Pin, 16 AWG							
2	Male	.220	SC1371-ND	18.45	13.84	12.64	SF6382-2PG-520
3	Male	.220	SC1373-ND	19.36	14.52	13.26	SF6382-3PG-520
4	Male	.220	SC1375-ND	20.29	15.22	13.90	SF6382-4PG-520
5	Male	.220	SC1377-ND	21.20	15.90	14.52	SF6382-5PG-520
6	Male	.220	SC1379-ND	22.13	16.60	15.16	SF6382-6PG-520
Fig. 1 — Cable End Socket, 16 AWG							
2	Female	.220	SC1372-ND	19.89	14.92	13.63	SF6382-2SG-520
3	Female	.220	SC1374-ND	21.28	15.97	14.58	SF6382-3SG-520
4	Female	.220	SC1376-ND	22.64	16.99	15.52	SF6382-4SG-520
5	Female	.220	SC1378-ND	24.03	18.03	16.47	SF6382-5SG-520
6	Female	.220	SC1380-ND	25.39	19.05	17.40	SF6382-6SG-520
Fig. 2 — Panel Mount Pin, 20 AWG							
2	Male	—	SC1347-ND	14.40	10.80	9.87	SF7282-2PG-3ES
3	Male	—	SC1349-ND	15.79	11.84	10.82	SF7282-3PG-3ES
4	Male	—	SC1351-ND	16.54	12.41	11.33	SF7282-4PG-3ES
5	Male	—	SC1353-ND	17.29	12.97	11.85	SF7282-5PG-3ES
6	Male	—	SC1355-ND	18.05	13.54	12.37	SF7282-6PG-3ES
7	Male	—	SC1357-ND	18.80	14.10	12.88	SF7282-7PG-3ES
8	Male	—	SC1359-ND	19.53	14.65	13.38	SF7282-8PG-3ES
Fig. 2 — Panel Mount Socket, 20 AWG							
2	Female	—	SC1348-ND	15.54	11.66	10.65	SF7282-2SG-3ES
3	Female	—	SC1350-ND	16.60	12.45	11.37	SF7282-3SG-3ES
4	Female	—	SC1352-ND	17.68	13.27	12.12	SF7282-4SG-3ES
5	Female	—	SC1354-ND	18.77	14.08	12.86	SF7282-5SG-3ES
6	Female	—	SC1356-ND	19.83	14.87	13.59	SF7282-6SG-3ES
7	Female	—	SC1358-ND	20.91	15.69	14.33	SF7282-7SG-3ES
8	Female	—	SC1360-ND	21.97	16.48	15.05	SF7282-8SG-3ES
Fig. 2 — Panel Mount Pin, 16 AWG							
2	Male	—	SC1361-ND	16.42	12.32	11.25	SF7382-2PG-3ES
3	Male	—	SC1363-ND	18.00	13.51	12.34	SF7382-3PG-3ES
4	Male	—	SC1365-ND	18.87	14.15	12.93	SF7382-4PG-3ES
5	Male	—	SC1367-ND	19.71	14.78	13.50	SF7382-5PG-3ES
6	Male	—	SC1369-ND	20.57	15.43	14.09	SF7382-6PG-3ES
Fig. 2 — Panel Mount Socket, 16 AWG							
2	Female	—	SC1362-ND	17.70	13.28	12.13	SF7382-2SG-3ES
3	Female	—	SC1364-ND	18.93	14.20	12.97	SF7382-3SG-3ES
4	Female	—	SC1366-ND	20.15	15.12	13.81	SF7382-4SG-3ES
5	Female	—	SC1368-ND	21.39	16.05	14.66	SF7382-5SG-3ES
6	Female	—	SC1370-ND	22.62	16.97	15.50	SF7382-6SG-3ES

MX150L™ Sealed Wire-to-Wire Connectors

The MX150L 10 and 12 AWG connectors are designed to meet the need for a rugged, environmentally sealed connector system supporting high-power applications and long-voltage runs to eliminate voltage drops.

Features: • Simple crimp, poke and plug application eliminates need to crimp individual wire seals • Integral, two-way mat seal on the mating connector designed and tested to IEC IP 67 exceeds "waterproof" demands as a true sealed connector system tested under submersed conditions in various fluids

Specifications: UL File No.: E152602 ***Electrical:*** • Voltage: 600V • Current: 10 ~ 12AWG, 30 Amps • Dielectric Withstanding Voltage: 2200VAC minimum • Insulation Resistance: 1000MΩ ***Mechanical:*** • Sealing: IEC 529 — IP67 standard • Durability: 25 cycles ***Physical:*** • Housing: Glass-filled PBT, Black • Contact: Copper (Cu) Alloy • Plating: Tin (Sn) • Operating Temperature: -40° C ~ 125°C • Flammability: UL 94V-0

Fig. 1

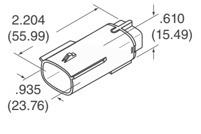

Fig. 2

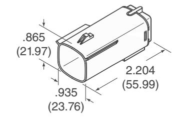

Fig. 3

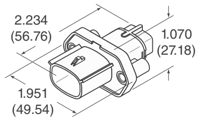

Fig. 4

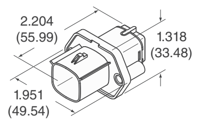

Fig. 5

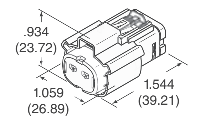

Fig. 6

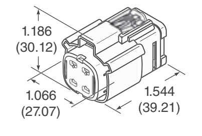

Fig.	Circuits	AWG Range	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
			Plugs — Free Hanging				
1	2	10 ~ 12	WM17542-ND	4.04	3.42	2.88	19433-0013
2	4	10 ~ 12	WM17543-ND	5.14	4.36	3.67	19433-0001
			Plugs — Panel Mount				
3	2	10 ~ 12	WM17546-ND	5.88	4.98	4.19	19436-0213
4	4	10 ~ 12	WM17547-ND	6.47	5.48	4.61	19436-0413
			Receptacles — Free Hanging				
5	2	10 ~ 12	WM17544-ND	5.88	4.98	4.19	19432-0013
6	4	10 ~ 12	WM17545-ND	8.71	7.37	6.20	19432-0001
			Polarizing Plug				
—	—	10 ~ 12	WM17548-ND	.34	.29	.25	19431-0013
			Contacts				
Pin - Male, 10 ~ 12AWG, Tin			WM17540-ND	.67	.57	.48	19431-0016
Socket - Female, 10 ~ 12AWG, Tin			WM17539-ND	.68	.58	.49	19434-0003
			Tool				
Crimp Hand Tool, 10 ~ 12AWG			WM17541-ND	269.33	—	—	63811-5300
Crimp Hand Tool, 8 ~ 12AWG			WM17550-ND ***NEW!***	100.80	—	—	64016-0170

2.50mm Mini Splash Proof Connectors

Receptacle and Plug:
Specifications: ***Electrical:*** • Voltage: 25V • Current: 4.0A • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 500VAC per 1 minute • Insulation Resistance: 250MΩ minimum ***Physical:*** • Housing/Cap: Glass-filled PBTP • Wire End Seal: Silicone • Seal Stopper *(Plug only)*: Glass-filled PBTP • Seal *(Plug only)*: Silicone • **Operating Temperature:** -40°C ~ 105°C

Fig. 1

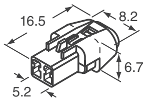

Fig. 2

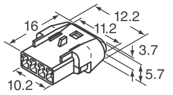

Fig. 3

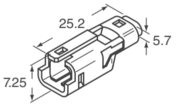

Fig. 4

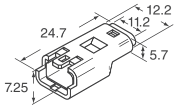

Fig.	Description	Circuits	Color	Digi-Key Part No	Price Each 1	10	50	Molex Part No
1	Receptacle	2	Black	WM17522-ND	1.29	1.10	.93	52213-0211
2	Receptacle	3	Black	WM17523-ND	1.79	1.52	1.28	52213-0311
	Receptacle	4	Brown	WM17524-ND	1.96	1.66	1.40	52213-0417
3	Plug	2	Black	WM17526-ND	2.32	1.97	1.65	52266-0211
4	Plug	3	Black	WM17527-ND	3.08	2.61	2.19	52266-0311
	Plug	4	Brown	WM17528-ND	3.50	2.96	2.49	52266-0417

Description	Wire Size AWG	Digi Key Part No.	Price Each 1	10	50	Molex Part No.
Socket - Tin	20 ~ 22	WM17525-ND	.24	.21	.18	50148-8100
Pin - Tin	20 ~ 22	WM17529-ND	.24	.21	.18	50147-8100
		Tools				
Crimp Hand Tool, 20 ~ 22AWG		WM17530-ND	269.33	—	—	63811-8600

MX150L™ Waterproof Automotive Type Connectors

Receptacle and Plug Specifications: ***Electrical:*** • Dielectric Withstanding Voltage: 2200VAC • Insulation Resistance: 20MΩ ***Physical:*** • Housing: SPS Glass-Filled Crystalline, UL 94V-0 • Polymer Operating Temperature: -40°C ~ 125°C **Features:** • Environmentally sealed to IP67 and USCAR-2, Rev. 3 standards • Integrated mat wire seal • Integrated interface seal • Integrated terminal position assurance (TPA) • Simple crimp and poke application • Field serviceable contact removal system • Tactile and audible mating feedback • Supports 18-22AWG and 14-16AWG wire range

Vertical and Right Angle Header Specifications: ***Electrical:*** • Dielectric Withstanding Voltage: 2200VAC minimum • Insulation Resistance: 1000MΩ ***Physical:*** • Housing: Glass-Filled PBT • Contacts: Copper Alloy • Operating Temperature: -40°C ~ 125°C **Features:** • Environmentally sealed to IP67 standards • Molded silicon panel gasket included • Tactile and audible mating feedback • Supports 14 ~ 22AWG wire range

Fig. 1

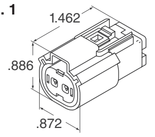

Contacts sold separately

Fig. 2

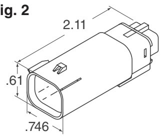

Contacts sold separately

Fig. 3

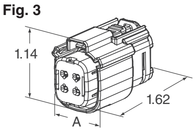

Contacts sold separately

Fig. 4

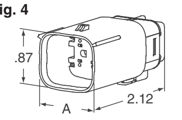

Contacts sold separately

Fig. 5

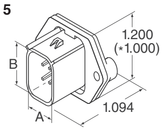

*Dim. for WM17509-ND

Fig. 6

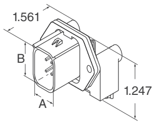

Fig.	Circuits	AWG Range	Dim. A (Inches)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
				Single Row — RoHS Compliant				
				Receptacle				
1	2	22 ~ 18	—	WM17407-ND	3.04	2.58	2.17	19418-0016
	2	16 ~ 14	—	WM17408-ND	3.04	2.58	2.17	19418-0017
				Plug				
2	2	22 ~ 18	—	WM17417-ND	3.04	2.58	2.17	19419-0008
	2	16 ~ 14	—	WM17418-ND	3.04	2.58	2.17	19419-0007
				Double Row				
				Receptacle				
3	4	22 ~ 18	.872	WM17409-ND◆	4.07	3.45	2.90	19418-0018
	4	16 ~ 14	.872	WM17410-ND◆	4.07	3.45	2.90	19418-0019
	6	22 ~ 18	1.102	WM17411-ND	5.92	5.02	4.22	19418-0020-P
	6	16 ~ 14	1.102	WM17412-ND◆	5.92	5.02	4.22	19418-0021
	8	22 ~ 18	1.332	WM17413-ND◆	6.99	5.92	4.98	19418-0022
	8	16 ~ 14	1.332	WM17414-ND◆	6.99	5.92	4.98	19418-0023
	10	22 ~ 18	1.562	WM17415-ND◆	8.56	7.24	6.09	19418-0024
	10	16 ~ 14	1.562	WM17416-ND◆	8.56	7.24	6.09	19418-0025
				Plug				
4	4	22 ~ 18	.746	WM17419-ND◆	4.07	3.45	2.90	19419-0005
	4	16 ~ 14	.746	WM17420-ND◆	4.07	3.45	2.90	19419-0004
	6	22 ~ 18	.976	WM17421-ND◆	5.92	5.02	4.22	19419-0012
	6	16 ~ 14	.976	WM17422-ND◆	5.92	5.02	4.22	19419-0011
	8	22 ~ 18	1.206	WM17423-ND◆	6.99	5.92	4.98	19419-0001
	8	16 ~ 14	1.206	WM17424-ND◆	6.99	5.92	4.98	19419-0002
	10	22 ~ 18	1.436	WM17425-ND◆	8.64	7.31	6.15	19419-0015
	10	16 ~ 14	1.436	WM17426-ND	8.56	7.24	6.09	19419-0014

◆ ***RoHS Compliant***

Kits

WM1044-ND◆	(76650-0032)	**MX150L Connector Kit**; (Dual Row Sealed Plug And Receptacle, IP-67)	**$102.04**
WM8475-ND◆	(76650-0152)	**MX150L Connector Kit**; (Dual Row Panel Mount Sealed Plug and Receptacle, IP-67)	**$86.17**
WM8512-ND◆	(76650-0197)	**MX150L Connector Kit**; (Single Row Receptacle to Distributor with CPA)	**$35.13**
WM8474-ND◆	(76650-0151)	**Deluxe Splashproof Application Kit**; (Includes USB Type A and B, RJ-45, MX150L, MX150, Mini-Splashproof Product Families. Pitches Range: 2.5mm ~ 5.84mm (.098" ~ .230")	**$160.39**

◆ ***RoHS Compliant***

Vertical and Right Angle Headers

Fig.	Circuits	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
				Vertical				
5	2	.634	.504	WM17509-ND	3.09	2.62	2.20	19428-0009
	4	.634	.754	WM17510-ND	4.01	3.39	2.85	19428-0011
	6	.864	.754	WM17511-ND	4.78	4.05	3.40	19428-0012
	10	1.324	.754	WM17513-ND	6.32	5.35	4.50	19428-0014
				Right Angle				
6	4	.634	.754	WM17505-ND	5.25	4.45	3.74	19427-0032
	6	.864	.754	WM17506-ND	6.03	5.10	4.29	19427-0018

Contacts (Pre-tin) and Tools

Description	Wire Size AWG	Digi Key Part No.	Pricing 10	100	500	Molex Part No.
Connector Terminal, Female Tin	22 ~ 18	WM17427-ND	2.41	19.26	80.25	19420-0010
Connector Terminal, Male Tin	22 ~ 18	WM17429-ND	2.41	19.26	80.25	19417-0048
Connector Terminal, Female Tin	16 ~ 14	WM17428-ND	2.41	19.26	80.25	19420-0009
Connector Terminal, Male Tin	16 ~ 14	WM17430-ND	2.41	19.26	80.25	19417-0047
Keying Plug for MX Series		WM17431-ND	3.14	—	—	19417-0119
Crimp Tool (Prototype)		WM17483-ND		28.00/1		64016-0035
Crimp Tool (Ratcheting)		WM17484-ND		287.28/1		63811-4400
Extraction Tool		WM17434-ND		20.25/1		63813-1500
Crimp Hand Tool, 8 ~ 12AWG		WM17550-ND ***NEW!***		100.80/1		64016-0170

Kit

WM8487-ND	(76650-0166)	**Sealed Splashproof Connector Kit**; (Sealed Plug and Receptacle, JIS D0203 S2 Waterproof Compliant)	**$39.77**

SOURIAU
Connection Technology

Trim Trio Connection System

Fig. 1 – Cable Plug

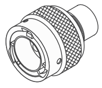

Male shown

Fig. 2 – Wall Mount Receptacle

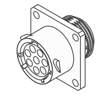

Female – Shown with flange

Fig. 3 – Jam Nut Receptacle

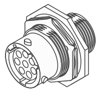

Male shown

Fig. 4 – Cable Plug

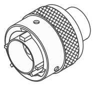

Male shown

Fig. 5 – Wall Mount Receptacle

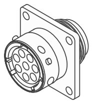

Female – Shown with flange

Fig. 6 – Cable Plug

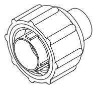

Male shown

Fig. 7 – Cable Plug

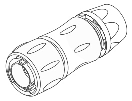

Male shown

Fig. 8 – Plug Connector

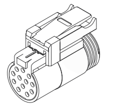

Female shown

Fig. 9 – Receptacle Connector

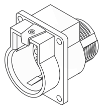

Male shown

Fig. 10 – Strain Relief

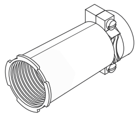

Fig. 11 – Cable Plug

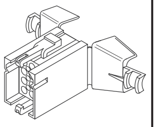

Shown with strain relief

Fig. 12 – Panel Mount Receptacle

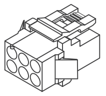

Shown without strain relief

Fig. 13

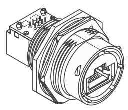

Fig. 14

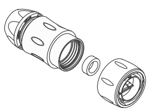

Fig. 15

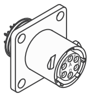

Fig. 16

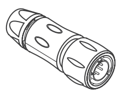

Fig. 17

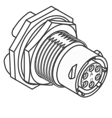

Fig. 18

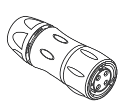

Fig. 19

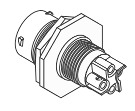

Fig. 20

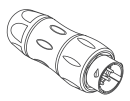

Fig. 21 – Cable Plug

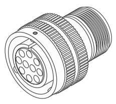

Female shown

Fig. 22 – Receptacle

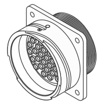

Male shown

Fig. 23 – Cable Clamp

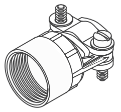

Fig. 24 – Cable Clamp

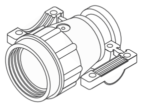

Metal Circular Bayonet Dynamic Sealing – IP67/IP68K

UTO/UTOW Series

Features: • Full Metal Bayonet Coupling • UTO Series is intermatable with UTG, UTP and UTS Series • Derived from MIL-C-26482 • 500 mating-unmating cycles • Salt spray resistant up to 48 hours **Specifications:** • **Shells:** Zinc alloy-shielded • **Coupling Ring:** Aluminum alloy • **Operating Temperature:** -40°C ~ 105°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	10	Souriau Part No.
UT0 Series							
1	4 / #16	10	Plug for sockets	SOU1032-ND	28.27	26.79	UT06104SH
	4 / #16	10	Plug for pins	SOU1033-ND	28.84	27.33	UT0610-4PH
2	4 / #16	10	Recept. for sockets	SOU1000-ND§	16.78	15.90	UT00104SH
	4 / #16	10	Recept. for pins	SOU1001-ND§	16.78	15.90	UT00104PH
3	4 / #16	10	Recept. for sockets	SOU1016-ND	27.38	25.94	UT07104SH
	4 / #16	10	Recept. for pins	SOU1017-ND	27.38	25.94	UT07104PH
1	8 / #16	12	Plug for sockets	SOU1034-ND	27.46	26.01	UT06128SH
	8 / #16	12	Plug for pins	SOU1035-ND	27.46	26.01	UT0612-8PH
2	8 / #16	12	Recept. for sockets	SOU1002-ND§	17.46	16.55	UT00128SH
	8 / #16	12	Recept. for pins	SOU1003-ND§	17.46	16.55	UT00128PH
3	8 / #16	12	Recept. for sockets	SOU1018-ND	28.52	27.02	UT07128SH
	8 / #16	12	Recept. for pins	SOU1019-ND	28.52	27.02	UT07128PH
1	12 / #16	14	Plug for sockets	SOU1036-ND	27.82	26.36	UT061412SH
	12 / #16	14	Plug for pins	SOU1037-ND	27.82	26.36	UT0614-12PH
2	12 / #16	14	Recept. for sockets	SOU1004-ND§	14.25	13.50	UT001412SH
	12 / #16	14	Recept. for pins	SOU1005-ND§	17.78	16.85	UT001412PH
3	12 / #16	14	Recept. for sockets	SOU1020-ND	29.26	27.72	UT071412SH
	12 / #16	14	Recept. for pins	SOU1021-ND	29.26	27.72	UT071412PH
1	19 / #16	16	Plug for sockets	SOU1038-ND	27.95	26.48	UT061619SH
	19 / #16	16	Plug for pins	SOU1039-ND	27.95	26.48	UT061619PH
2	19 / #16	16	Recept. for sockets	SOU1006-ND§	18.32	17.36	UT001619SH
	19 / #16	16	Recept. for pins	SOU1007-ND§	18.32	17.36	UT001619PH
3	19 / #16	16	Recept. for sockets	SOU1022-ND	27.32	25.89	UT071619SH
	19 / #16	16	Recept. for pins	SOU1023-ND	30.40	28.80	UT071619PH
1	23 / #16	18	Plug for sockets	SOU1040-ND	28.60	27.09	UT061823SH
	23 / #16	18	Plug for pins	SOU1041-ND	28.60	27.09	UT0618-23PH
2	23 / #16	18	Recept. for sockets	SOU1008-ND§	15.20	14.40	UT001823SH
	23 / #16	18	Recept. for pins	SOU1009-ND§	19.02	18.02	UT001823PH
3	23 / #16	18	Recept. for sockets	SOU1024-ND	31.37	29.72	UT071823SH
	23 / #16	18	Recept. for pins	SOU1025-ND	31.37	29.72	UT071823PH
1	28 / #16	20	Plug for sockets	SOU1042-ND	29.09	27.56	UT062028SH
	28 / #16	20	Plug for pins	SOU1043-ND	29.09	27.56	UT062028PH
2	28 / #16	20	Recept. for sockets	SOU1010-ND§	20.67	19.59	UT002028SH
	28 / #16	20	Recept. for pins	SOU1011-ND§	20.67	19.59	UT002028PH
3	28 / #16	20	Recept. for sockets	SOU1026-ND	34.07	32.28	UT072028SH
	28 / #16	20	Recept. for pins	SOU1027-ND	34.07	32.28	UT072028PH
1	35 / #16	22	Plug for sockets	SOU1044-ND	29.74	28.17	UT062235SH
	35 / #16	22	Plug for pins	SOU1045-ND	29.74	28.17	UT062235PH
2	35 / #16	22	Recept. for pins	SOU1013-ND§	21.58	20.45	UT002235PH
3	35 / #16	22	Recept. for sockets	SOU1028-ND	35.47	33.61	UT072235SH
	35 / #16	22	Recept. for pins	SOU1029-ND	35.47	33.61	UT072235PH
1	48 / #16	24	Plug for sockets	SOU1046-ND	31.81	30.14	UT062448SH
	48 / #16	24	Plug for pins	SOU1047-ND	31.81	30.14	UT0624-48PH
2	48 / #16	24	Recept. for sockets	SOU1014-ND§	22.42	21.24	UT002448SH
	48 / #16	24	Recept. for pins	SOU1015-ND§	22.42	21.24	UT002448PH
3	48 / #16	24	Recept. for sockets	SOU1030-ND	36.86	34.92	UT072448SH
	48 / #16	24	Recept. for pins	SOU1031-ND	36.86	34.92	UT072448PH
UT0W Series — High Density							
1	6 / #20	10	Plug for sockets	SOU1076-ND	25.52	24.18	UT0W6106SH
	6 / #20	10	Plug for pins	SOU1077-ND	27.38	25.94	UT0W6106PH
2	6 / #20	10	Recept. for sockets	SOU1064-ND§	24.78	23.48	UT0W0106SH
	6 / #20	10	Recept. for pins	SOU1065-ND§	19.23	18.22	UT0W0106PH
3	6 / #20	10	Recept. for sockets	SOU1070-ND	32.24	30.55	UT0W7106SH
	6 / #20	10	Recept. for pins	SOU1071-ND	27.38	25.94	UT0W7106PH
1	10 / #20	12	Plug for sockets	SOU1078-ND	32.34	30.64	UT0W61210SH
	10 / #20	12	Plug for pins	SOU1079-ND	27.46	26.01	UT0W61210PH
2	10 / #20	12	Recept. for sockets	SOU1066-ND§	22.31	21.14	UT0W01210SH
	10 / #20	12	Recept. for pins	SOU1067-ND§	17.46	16.55	UT0W01210PH
3	10 / #20	12	Recept. for sockets	SOU1072-ND	33.36	31.61	UT0W71210SH
	10 / #20	12	Recept. for pins	SOU1073-ND	28.52	27.02	UT0W71210PH
1	19 / #20	14	Plug for sockets	SOU1080-ND	37.28	35.32	UT0W61419SH
	19 / #20	14	Plug for pins	SOU1081-ND	27.82	26.36	UT0W61419PH
2	19 / #20	14	Recept. for sockets	SOU1068-ND§	22.57	21.39	UT0W01419SH
	19 / #20	14	Recept. for pins	SOU1069-ND§	17.78	16.85	UT0W01419PH
3	19 / #20	14	Recept. for sockets	SOU1074-ND	31.22	29.58	UT0W71419SH
	19 / #20	14	Recept. for pins	SOU1075-ND	29.26	27.72	UT0W71419PH

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately

(Continued)

Plastic with Metal Ring Circular Bayonet – IP65/IP67

UTG Series

Features: • Full Metal Bayonet Coupling • Intermatable with UTO, UTP and UTS Series • 500 mating-unmating cycles **Specifications: • Shells:** Glass filled thermoplastic UL94-V0 • **Coupling Ring:** Nickel plated brass • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each		Souriau Part No.
					1	10	
4	4 / #16	10	Plug for sockets	SOU1082-ND	11.19	10.61	UTG6-10-4SN
	4 / #16	10	Plug for pins	SOU1083-ND	11.19	10.61	UTG610-4PN
5	4 / #16	10	Recept. for sockets	SOU1104-ND§	6.54	6.20	UTG010-4S
	4 / #16	10	Recept. for pins	SOU1105-ND§	6.54	6.20	UTG0104P
4	8 / #16	12	Plug for sockets	SOU1084-ND	11.27	10.68	UTG612-8SN
	8 / #16	12	Plug for pins	SOU1085-ND	11.27	10.68	UTG612-8PN
5	8 / #16	12	Recept. for sockets	SOU1106-ND§	6.63	6.29	UTG012-8S
	8 / #16	12	Recept. for pins	SOU1107-ND§	6.63	6.29	UTG0128P
	8 / #16	12	Recept. for pins	SOU1097-ND†	8.76	8.30	UTG1128P
4	12 / #16	14	Plug for sockets	SOU1086-ND	11.55	10.95	UTG614-12SN
	12 / #16	14	Plug for pins	SOU1087-ND	11.55	10.95	UTG614-12PN
5	12 / #16	14	Recept. for sockets	SOU1108-ND§	6.73	6.38	UTG014-12S
	12 / #16	14	Recept. for pins	SOU1109-ND§	6.73	6.38	UTG01412P
	12 / #16	14	Recept. for sockets	SOU1098-ND†	8.85	8.39	UTG114-12S
	12 / #16	14	Recept. for pins	SOU1099-ND†	8.85	8.39	UTG114-12P
4	19 / #16	16	Plug for pins	SOU1088-ND	11.74	11.13	UTG61619PN
5	19 / #16	16	Recept. for sockets	SOU1110-ND§	6.82	6.47	UTG01619S
	19 / #16	16	Recept. for pins	SOU1111-ND§	6.82	6.47	UTG01619P
	19 / #16	16	Recept. for sockets	SOU1100-ND†	9.01	8.54	UTG11619-S
	19 / #16	16	Recept. for pins	SOU1101-ND†	9.01	8.54	UTG11619-P
4	23 / #16	18	Plug for sockets	SOU1089-ND	12.33	11.69	UTG618-23SN
	23 / #16	18	Plug for pins	SOU1090-ND	12.33	11.69	UTG618-23PN
5	23 / #16	18	Recept. for sockets	SOU1112-ND§	7.03	6.66	UTG018-23S
	23 / #16	18	Recept. for pins	SOU1113-ND§	7.03	6.66	UTG018-23P
	23 / #16	18	Recept. for sockets	SOU1002-ND†	17.46	16.55	UTG11823S
4	28 / #16	20	Plug for sockets	SOU1091-ND	15.12	14.33	UTG620-28SN
	28 / #16	20	Plug for pins	SOU1092-ND	15.12	14.33	UTG620-28PN
5	28 / #16	20	Recept. for sockets	SOU1114-ND§	10.47	9.92	UTG020-28S
	28 / #16	20	Recept. for pins	SOU1115-ND§	10.47	9.92	UTG020-28P
4	35 / #16	22	Plug for sockets	SOU1093-ND	15.81	14.98	UTG622-35SN
	35 / #16	22	Plug for pins	SOU1094-ND	15.81	14.98	UTG622-35PN
5	35 / #16	22	Recept. for sockets	SOU1116-ND§	11.67	11.06	UTG022-35S
	35 / #16	22	Recept. for pins	SOU1117-ND§	11.67	11.06	UTG022-35P
	35 / #16	22	Recept. for pins	SOU1103-ND†	12.84	12.17	UTG12235P
4	48 / #16	24	Plug for sockets	SOU1095-ND	16.40	15.54	UTG62448SN
	48 / #16	24	Plug for pins	SOU1096-ND	16.40	15.54	UTG624-48PN
5	48 / #16	24	Recept. for sockets	SOU1118-ND§	11.95	11.33	UTG0-24-48S
	48 / #16	24	Recept. for pins	SOU1119-ND§	11.95	11.33	UTG02448P
4	3 / #12	12	Plug for pins	SOU1122-ND	11.19	10.61	UTG6123PN
5	3 / #12	12	Recept. for sockets	SOU1120-ND§	8.53	8.09	UTG0123SH
4	4 / #8	24	Plug for sockets	SOU1123-ND	21.96	20.81	UTG62411SN
5	7 / #16	24	Recept. for pins	SOU1121-ND§	20.06	19.01	UTG02411PH

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately

† Free hanging receptacle does not have mounting flange for wire to wire applications

All Plastic Circular Bayonet – IP65/IP67

UTP Series

Features: • Plastic Bayonet Coupling • Intermatable with UTO, UTG and UTS Series • 250 mating-unmating cycles **Specifications: • Shell and Coupling Ring:** Glass filled black thermoplastic UL94-V0 • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each		Souriau Part No.
					1	10	
6	4 / #16	10	Plug for sockets	SOU1155-ND	8.59	8.14	UTP6104S
	4 / #16	10	Plug for pins	SOU1156-ND	8.59	8.14	UTP6104P
2	4 / #16	10	Recept. for sockets	SOU1139-ND§	5.83	5.53	UTP0104S
	4 / #16	10	Recept. for pins	SOU1140-ND§	9.33	8.84	UTP0104P
6	8 / #16	12	Plug for sockets	SOU1157-ND	8.63	8.18	UTP6128S
	8 / #16	12	Plug for pins	SOU1158-ND	8.63	8.18	UTP6128P
2	8 / #16	12	Recept. for sockets	SOU1141-ND§	5.85	5.55	UTP0128S
	8 / #16	12	Recept. for pins	SOU1142-ND§	5.85	5.55	UTP0128P
6	12 / #16	14	Plug for sockets	SOU1159-ND	7.32	6.93	UTP61412S
	12 / #16	14	Plug for pins	SOU1160-ND	8.85	8.39	UTP61412P
2	12 / #16	14	Recept. for sockets	SOU1143-ND§	5.93	5.62	UTP01412S
	12 / #16	14	Recept. for pins	SOU1144-ND§	7.66	7.26	UTP01412P
6	19 / #16	16	Plug for sockets	SOU1161-ND	9.01	8.54	UTP61619S
	19 / #16	16	Plug for pins	SOU1162-ND	9.01	8.54	UTP61619P
2	19 / #16	16	Recept. for sockets	SOU1145-ND§	6.04	5.73	UTP01619S
	19 / #16	16	Recept. for pins	SOU1146-ND§	6.04	5.73	UTP01619P
6	23 / #16	18	Plug for sockets	SOU1163-ND	9.39	8.90	UTP61823S
	23 / #16	18	Plug for pins	SOU1164-ND	9.39	8.90	UTP61823P
2	23 / #16	18	Recept. for sockets	SOU1147-ND§	6.16	5.84	UTP01823S
	23 / #16	18	Recept. for pins	SOU1148-ND§	6.16	5.84	UTP01823P
6	28 / #16	20	Plug for sockets	SOU1165-ND	11.55	10.95	UTP62028S
	28 / #16	20	Plug for pins	SOU1166-ND	11.55	10.95	UTP62028P
2	28 / #16	20	Recept. for sockets	SOU1149-ND§	9.46	8.97	UTP02028S
	28 / #16	20	Recept. for pins	SOU1150-ND§	9.46	8.97	UTP02028P
6	35 / #16	22	Plug for sockets	SOU1167-ND	12.07	11.43	UTP62235S
	35 / #16	22	Plug for pins	SOU1168-ND	12.07	11.43	UTP62235P
2	35 / #16	22	Recept. for sockets	SOU1151-ND§	9.56	9.06	UTP02235S
	35 / #16	22	Recept. for pins	SOU1152-ND§	7.45	7.06	UTP02235P
6	48 / #16	24	Plug for sockets	SOU1169-ND	12.54	11.88	UTP62448S
	48 / #16	24	Plug for pins	SOU1170-ND	12.54	11.88	UTP62448P
2	48 / #16	24	Recept. for sockets	SOU1153-ND§	9.71	9.20	UTP02448S
	48 / #16	24	Recept. for pins	SOU1154-ND§	9.71	9.20	UTP02448P

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately

All Plastic Circular Bayonet – DynamicSealing IP68/IP69K

UTS Series

Features: • Plastic Bayonet Coupling • 250 mating-unmating cycles • Salt spray resistant up to 500 hours • Cable mount includes backshell **Specifications: • Shell and Coupling Ring:** Black thermoplastic UL94-V0 and NFF16101 level 2 • **Operating Temperature:** -40°C ~ 105°C • In accordance with UL requirements

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each		Souriau Part No.
					1	10	
7	3 / #16	10	Plug for sockets	SOU1306-ND	12.54	11.88	UTS6JC103S
	3 / #16	10	Plug for pins	SOU1297-ND	12.54	11.88	UTS6JC103P
3	3 / #16	10	Recept. for sockets	SOU1279-ND	8.47	8.03	UTS7103S
	3 / #16	10	Recept. for pins	SOU1288-ND	8.47	8.03	UTS7103P
7	4 / #16	10	Plug for sockets	SOU1307-ND	12.54	11.88	UTS6JC104S
	4 / #16	10	Plug for pins	SOU1298-ND	12.54	11.88	UTS6JC104P
3	4 / #16	10	Recept. for sockets	SOU1280-ND	8.47	8.03	UTS7104S
	4 / #16	10	Recept. for pins	SOU1289-ND	8.47	8.03	UTS7104P
7	6 / #20	10	Plug for sockets	SOU1308-ND	14.21	13.47	UTS6JC106S
	6 / #20	10	Plug for pins	SOU1299-ND	14.21	13.47	UTS6JC106P
3	6 / #20	10	Recept. for sockets	SOU1281-ND	10.07	9.54	UTS7106S
	6 / #20	10	Recept. for pins	SOU1290-ND	10.07	9.54	UTS7106P
7	4 / #16	12	Plug for sockets	SOU1309-ND	12.86	12.19	UTS6JC124S
	4 / #16	12	Plug for pins	SOU1300-ND	12.86	12.19	UTS6JC124P
3	4 / #16	12	Recept. for sockets	SOU1282-ND	8.59	8.14	UTS7124S
	4 / #16	12	Recept. for pins	SOU1291-ND	8.59	8.14	UTS7124P
7	8 / #16	12	Plug for sockets	SOU1310-ND	12.86	12.19	UTS6JC128S
	8 / #16	12	Plug for pins	SOU1301-ND	12.86	12.19	UTS6JC128P
3	8 / #16	12	Recept. for sockets	SOU1283-ND	8.59	8.14	UTS7128S
	8 / #16	12	Recept. for pins	SOU1292-ND	8.59	8.14	UTS7128P
7	10 / #20	12	Plug for sockets	SOU1311-ND	14.50	13.74	UTS6JC1210S
	10 / #20	12	Plug for pins	SOU1302-ND	14.50	13.74	UTS6JC1210P
3	10 / #20	12	Recept. for sockets	SOU1287-ND	10.26	9.72	UTS71210S
	10 / #20	12	Recept. for pins	SOU1293-ND	10.26	9.72	UTS71210P
7	7 / #16	14	Plug for sockets	SOU1312-ND	13.19	12.50	UTS6JC147S
	7 / #16	14	Plug for pins	SOU1303-ND	13.19	12.50	UTS6JC147P
3	7 / #16	14	Recept. for sockets	SOU1284-ND	8.74	8.28	UTS7147S
	7 / #16	14	Recept. for pins	SOU1294-ND	8.74	8.28	UTS7147P
7	12 / #16	14	Plug for sockets	SOU1313-ND	13.19	12.50	UTS6JC1412S
	12 / #16	14	Plug for pins	SOU1304-ND	13.19	12.50	UTS6JC1412P
3	12 / #16	14	Recept. for sockets	SOU1285-ND	8.74	8.28	UTS71412S
	12 / #16	14	Recept. for pins	SOU1295-ND	8.74	8.28	UTS71412P
7	19 / #20	14	Plug for sockets	SOU1314-ND	14.80	14.03	UTS6JC1419S
	19 / #20	14	Plug for pins	SOU1305-ND	14.80	14.03	UTS6JC1419P
3	19 / #20	14	Recept. for sockets	SOU1286-ND	10.36	9.81	UTS71419S
	19 / #20	14	Recept. for pins	SOU1296-ND	10.36	9.81	UTS71419P

‡ See Trim Trio Contact section for contacts

UTS Accessories

Shell Size	Description	Digi-Key Part No.	Price Each			Souriau Part No.
			1	10	25	
10	Receptacle Dustcap	SOU1315-ND	4.31	4.09	3.98	UTS10DCG
	Plug Dustcap	SOU1318-ND	8.21	7.78	7.56	UTS610DCG
	Recept. Color Coding Ring-Red	SOU1321-ND	.63	.60	.58	UTS710CCRR
	Recept. Color Coding Ring-Green	SOU1322-ND	.63	.60	.58	UTS710CCRG
	Recept. Color Coding Ring-Yellow	SOU1323-ND	.63	.60	.58	UTS710CCRY
	Plug Color Coding Ring-Red	SOU1330-ND	.63	.60	.58	UTS610CCRR
	Plug Color Coding Ring-Green	SOU1331-ND	.63	.60	.58	UTS610CCRG
	Plug Color Coding Ring-Yellow	SOU1332-ND	.63	.60	.58	UTS610CCRY
12	Receptacle Dustcap	SOU1316-ND	4.67	4.43	4.31	UTS12DCG
	Plug Dustcap	SOU1319-ND	8.47	8.03	7.81	UTS612DCG
	Recept. Color Coding Ring-Red	SOU1324-ND	.63	.60	.58	UTS712CCRR
	Recept. Color Coding Ring-Green	SOU1325-ND	.63	.60	.58	UTS712CCRG
	Recept. Color Coding Ring-Yellow	SOU1326-ND	.63	.60	.58	UTS712CCRY
	Plug Color Coding Ring-Red	SOU1333-ND	.63	.60	.58	UTS612CCRR
	Plug Color Coding Ring-Green	SOU1334-ND	.63	.60	.58	UTS612CCRG
	Plug Color Coding Ring-Yellow	SOU1335-ND	.63	.60	.58	UTS612CCRY
14	Receptacle Dustcap	SOU1317-ND	4.77	4.52	4.40	UTS14DCG
	Plug Dustcap	SOU1320-ND	8.76	8.30	8.07	UTS614DCG
	Recept. Color Coding Ring-Red	SOU1327-ND	.63	.60	.58	UTS714CCRR
	Recept. Color Coding Ring-Green	SOU1328-ND	.63	.60	.58	UTS714CCRG
	Recept. Color Coding Ring-Yellow	SOU1329-ND	.63	.60	.58	UTS714CCRY
	Plug Color Coding Ring-Red	SOU1336-ND	.63	.60	.58	UTS614CCRR
	Plug Color Coding Ring-Green	SOU1337-ND	.63	.60	.58	UTS614CCRG
	Plug Color Coding Ring-Yellow	SOU1338-ND	.63	.60	.58	UTS614CCRY

(Continued)

UTS RJ45

Intended for high speed Ethernet connection, UTS connectors with RJ45 cordset can be assembled in less than 1 minute. They use any standard RJ45 cable and do not need special tools for assembly or disassembly. Can be used in harsh environments **Applications:** • Data acquisitions and download • Networks interconnections • Robotics • Factory automation **Benefits:** • Vibration-proof, no fragile parts • A cat5e Ethernet solution • Cat5e per TIA/EIA and class D per ISO/IEC 11801 • 10 BaseT, 100 Base TX, 1000 BaseT networks • Available in shell size 18 • Plug with male RJ45 cordset and receptacle with female RJ45 cordset • Receptacles available: Square flange (metallic) and Jam nut (metallic or plastic)

Fig.	Description	Digi-Key Part No.	Price Each			Souriau Part No.
			1	10	25	
13	Receptacle Jam Nut Feed through	SOU1540-ND	27.25	25.82	25.10	UTS718RJFN
14	Plug cable with backshell	SOU1541-ND	19.23	18.22	17.71	UTS6JC18RJN25

UTS High Seal

UTS High seal connector is a range of light-weight industrial plastic circular connectors compatible with MIL-DTL-26482 connectors. It offers Dynamic IP68/IP69K water protection in both mated and unmated conditions. Connectors are standard supplied with preassembled handsolder contacts. For dip solder or crimp contacts, please consult factory. **Applications:** • Wet and submerged environments • Instrumentation • Meteorological measurement system • Traffic control • Video surveillance • Tunnel fans • Water measurement

Fig.	No. of Pos.	Shell Size	Description	Digi-Key Part No.	Price Each			Souriau Part No.
					1	10	25	
15	4	8	Sq. Flange Recept. with Pin	SOU1514-ND	12.67	12.01	11.68	UTS08E4P
	4	8	Sq. Flange Recept. with Socket	SOU1515-ND	13.43	12.73	12.38	UTS08E4S
	6	10	Sq. Flange Recept. with Pin	SOU1508-ND	13.57	12.86	12.50	UTS010E6P
	6	10	Sq. Flange Recept. with Socket	SOU1509-ND	14.21	13.47	13.09	UTS010E6S
	10	12	Sq. Flange Recept. with Pin	SOU1510-ND	15.54	14.73	14.32	UTS012E10P
	10	12	Sq. Flange Recept. with Socket	SOU1511-ND	16.68	15.81	15.37	UTS012E10S
	19	14	Sq. Flange Recept. with Pin	SOU1512-ND	22.69	21.50	20.90	UTS014E19P
	19	14	Sq. Flange Recept. with Socket	SOU1513-ND	24.49	23.21	22.56	UTS014E19S
16	4	8	Plug Cable with Pin	SOU1522-ND	24.47	23.19	22.54	UTS6JC8E4P
	4	8	Plug Cable with Socket	SOU1523-ND	25.12	23.80	23.14	UTS6JC8E4S
	6	10	Plug Cable with Pin	SOU1516-ND	26.66	25.26	24.56	UTS6JC10E6P
	6	10	Plug Cable with Socket	SOU1517-ND	27.28	25.85	25.13	UTS6JC10E6S
	10	12	Plug Cable with Pin	SOU1518-ND	29.55	27.99	27.22	UTS6JC12E10P
	10	12	Plug Cable with Socket	SOU1519-ND	30.67	29.06	28.25	UTS6JC12E10S
	19	14	Plug Cable with Pin	SOU1520-ND	35.00	33.16	32.24	UTS6JC14E19P
	19	14	Plug Cable with Socket	SOU1521-ND	38.04	36.04	35.04	UTS6JC14E19S
17	4	8	Recept. Jam Nut with Pin	SOU1530-ND	15.98	15.14	14.72	UTS78E4P
	4	8	Recept. Jam Nut with Socket	SOU1531-ND	16.64	15.77	15.33	UTS78E4S
	6	10	Recept. Jam Nut with Pin	SOU1524-ND	17.02	16.13	15.68	UTS710E6P
	6	10	Recept. Jam Nut with Socket	SOU1525-ND	17.71	16.78	16.31	UTS710E6S
	10	12	Recept. Jam Nut with Pin	SOU1526-ND	19.23	18.22	17.71	UTS712E10P
	10	12	Recept. Jam Nut with Socket	SOU1527-ND	20.43	19.35	18.82	UTS712E10S
	19	14	Recept. Jam Nut with Pin	SOU1528-ND	24.49	23.21	22.56	UTS714E19P
	19	14	Recept. Jam Nut with Socket	SOU1529-ND	27.51	26.07	25.34	UTS714E19S

High Mating Cycle Circular – Quick Mate

MBG Series

Features: • Quick mate locking latch and hook • 5000 mating-unmating cycles **Specifications:** • **Shell:** Glass filled black thermoplastic UL94-V0 • **Latch and Hook:** Stainless steel, passivated • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Description	Digi-Key Part No.	Price Each			Souriau Part No.
				1	10	25	
8	4 / #16	Plug for Sockets	SOU1192-ND	2.57	2.43	2.37	MBG4P-1
9	4 / #16	Recept. for Pins	SOU1194-ND	9.01	8.54	8.30	MBG4R-1
	4 / #16	Recept. for Sockets	SOU1195-ND	3.06	2.90	2.82	MBG4R-11
8	12 / #16	Plug for Sockets	SOU1171-ND	2.76	2.61	2.54	MBG12P-1
	12 / #16	Plug for Pins	SOU1172-ND	9.58	9.08	8.82	MBG12P-11
9	12 / #16	Recept. for Pins	SOU1173-ND	9.58	9.08	8.82	MBG12R-1
	12 / #16	Recept. for Sockets	SOU1174-ND	3.27	3.10	3.01	MBG12R-11
8	19 / #16	Plug for Sockets	SOU1176-ND	2.91	2.76	2.68	MBG19P-1
	19 / #16	Plug for Pins	SOU1177-ND	10.13	9.60	9.33	MBG19P-11
9	19 / #16	Recept. for Pins	SOU1178-ND	10.13	9.60	9.33	MBG19R-1
8	30 / #16	Plug for Sockets	SOU1181-ND	3.14	2.97	2.89	MBG30P-1
	30 / #16	Plug for Pins	SOU1182-ND	10.68	10.12	9.84	MBG30P-11
9	30 / #16	Recept. for Pins	SOU1183-ND	10.68	10.12	9.84	MBG30R-1
	30 / #16	Recept. for Sockets	SOU1184-ND	3.78	3.59	3.49	MBG30R-11
8	46 / #16	Plug for Sockets	SOU1187-ND	5.09	4.83	4.69	MBG46P-1
	46 / #16	Plug for Pins	SOU1188-ND	7.30	6.92	6.72	MBG46P-11
9	46 / #16	Recept. for Sockets	SOU1191-ND	7.68	7.28	7.07	MBG46R-11

‡ See Trim Trio Contact section for contacts

MBG Accessories

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each			Souriau Part No.
				1	10	25	
10	4	Strain Relief	SOU1196-ND	5.32	5.04	4.90	MBG4S-1
	12	Strain Relief	SOU1175-ND	5.42	5.13	4.99	MBG12S-1
	19	Strain Relief	SOU1180-ND	3.44	3.26	3.17	MBG19S-1
	30	Strain Relief – Large	SOU1185-ND	8.72	8.27	8.04	MBG30S1
	30	Strain Relief – Small	SOU1186-ND	8.08	7.65	7.44	MBG30S2
	46	Strain Relief Adapter	SOU1190-ND†	24.78	23.48	22.82	MBG46S-52

† Custom: To couple a 21-PG Cable Grips to 46 position

Self-Mounting Rectangular

SMS Series

Features: • Mating with positive lock • 500 mating-unmating cycles **Specifications:** • **Shell:** Polyamide 6.6 UL94-V2 • **Operating Temperature:** -55°C ~ 105°C

Fig.	No. of Pos./ Contact Size‡	Description†	Digi-Key Part No.	Price Each			Souriau Part No.
				1	10	25	
11	2 / #16	Cable Plug	SOU1217-ND	1.02	.97	.93	SMS2P1
	2 / #16	Cable Plug w/SR	SOU1218-ND	1.68	1.59	1.53	SMS2PDH1
12	2 / #16	Panel Mt. Recept.	SOU1197-ND	1.02	.97	.93	SMS2R1
11	3 / #16	Cable Plug	SOU1219-ND	.69	.65	.63	SMS3P1
	3 / #16	Cable Plug w/SR	SOU1220-ND	1.76	1.67	1.60	SMS3PDH1
12	3 / #16	Cable Recept. w/SR	SOU1200-ND	2.70	2.55	2.45	SMS3RDH1
	3 / #16	Panel Mt. Recept.	SOU1199-ND	.99	.94	.90	SMS3R1
11	4 / #16	Cable Plug w/SR	SOU1222-ND	1.84	1.75	1.68	SMS4PDH1
12	4 / #16	Cable Recept. w/SR	SOU1202-ND	2.05	1.95	1.89	SMS4RDH1
	4 / #16	Panel Mt. Recept.	SOU1201-ND	1.02	.97	.93	SMS4R1
11	6 / #16	Cable Plug	SOU1223-ND	.69	.65	.63	SMS6P1
	6 / #16	Cable Plug w/SR	SOU1224-ND	2.42	2.29	2.20	SMS6PDH1
12	6 / #16	Cable Recept. w/SR	SOU1204-ND	2.13	2.02	1.96	SMS6RDH1
	6 / #16	Panel Mt. Recept.	SOU1203-ND	1.65	1.56	1.50	SMS6R1
11	9 / #16	Cable Plug	SOU1225-ND	1.73	1.64	1.58	SMS9P1
	9 / #16	Cable Plug w/SR	SOU1226-ND	3.15	2.99	2.91	SMS9PDH1
12	9 / #16	Cable Recept. w/SR	SOU1206-ND	2.43	2.31	2.24	SMS9RDH1
	9 / #16	Panel Mt. Recept.	SOU1205-ND	.99	.94	.90	SMS9R1
11	12 / #16	Cable Plug	SOU1227-ND	.77	.73	.70	SMS12P-1
	12 / #16	Cable Plug w/SR	SOU1228-ND	1.98	1.88	1.82	SMS12PDH1
12	12 / #16	Cable Recept. w/SR	SOU1208-ND	2.55	2.42	2.35	SMS12RDH1
	12 / #16	Panel Mt. Recept.	SOU1207-ND	.77	.73	.70	SMS12R-1
11	15 / #16	Cable Plug	SOU1229-ND	1.95	1.85	1.78	SMS15P1
12	15 / #16	Panel Mt. Recept.	SOU1209-ND	1.10	1.04	1.00	SMS15R1
11	18 / #16	Cable Plug	SOU1231-ND	1.94	1.84	1.79	SMS18P1
12	18 / #16	Panel Mt. Recept.	SOU1211-ND	1.05	.99	.95	SMS18R1
11	24 / #16	Cable Plug	SOU1233-ND	1.32	1.25	1.20	SMS24P-1
	24 / #16	Cable Plug w/SR	SOU1234-ND	3.10	2.94	2.86	SMS24PDH1
12	24 / #16	Cable Recept. w/SR	SOU1214-ND	4.67	4.43	4.31	SMS24RDH1
	24 / #16	Panel Mt. Recept.	SOU1213-ND	1.87	1.77	1.70	SMS24R-1
11	36 / #16	Cable Plug	SOU1235-ND	2.70	2.55	2.45	SMS36P-1
	36 / #16	Cable Plug w/SR	SOU1236-ND	3.34	3.17	3.08	SMS36PDH1
12	36 / #16	Panel Mt. Recept.	SOU1215-ND	2.15	2.03	1.95	SMS36R-1

‡ See Trim Trio Contact section for contacts † SR = Strain Relief

Trim Trio® Screw Termination Contacts

UTS series with screw termination contacts combines extreme sealing performance, rapid and secure connector mating with the ease of wire termination. It requires no special skills or tools. Only a standard screwdriver is needed to fit the wires to the contacts, making it user-friendly and suitable for any field installation.

Features: • Rapid mating with 1/3 turn with an audible and sensitive "click" • Dynamic IP68/69K water protection • Rapid and secure mating - minimum 250 mating cycles • High salt spray resistance • Male connectors have a grounding contact

Fig.	No. of Pos.	Shell Size	Description	Digi-Key Part No.	Price Each			Souriau Part No.
					1	10	25	
18	4	12	Plug cable male screw	SOU1532-ND	21.45	20.33	19.76	UTS6JC124PSCR
	4	12	Plug cable female screw	SOU1533-ND	22.31	21.14	20.55	UTS6JC124SSCR
	7	14	Plug cable male screw	SOU1534-ND	32.02	30.33	29.49	UTS6JC147PSCR
19	4	12	Recept. Jam Nut male screw	SOU1535-ND	20.22	19.16	18.62	UTS7124PSCR
	4	12	Recept. Jam Nut female screw	SOU1536-ND	20.22	19.16	18.62	UTS7124SSCR
	7	14	Recept. Jam Nut female screw	SOU1537-ND	32.64	30.93	30.07	UTS7147SSCR
20	4	12	Recept. In-line male screw	SOU1538-ND	22.50	21.32	20.72	UTS1JC124PSCR
	7	14	Recept. In-line male screw	SOU1539-ND	33.61	31.85	30.96	UTS1JC147PSCR

(Continued)

SOURIAU
Connection Technology

Trim Trio Connection System *(Cont.)*

Ruggedized Circular Reverse Bayonet — Dynamic Sealing IP68/IP69K — UTV Series

Features: • Reverse Bayonet Coupling • Intermountable with VG 95234: MS-5015 reverse bayonet • 500 mating-unmating cycles • Salt spray resistant up to 500 hours **Specifications:** • **Shell:** Aluminum alloy with black zinc cobalt plating • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Description	Digi-Key Part No.	Price Each			Souriau Part No.
				1	10	25	
21	10 / #16	Cable Plug for Socket	SOU1275-ND	82.42	78.09	75.92	UTVD18-19SN
22	10 / #16	Recept. for Pin	SOU1273-ND	65.09	61.67	59.96	UTVB18-19PN
21	7 / #12	Cable Plug for Socket	SOU1276-ND	99.71	94.47	91.84	UTVD20-15SN
22	7 / #12	Recept. for Pin	SOU1274-ND	67.26	63.72	61.95	UTVB20-15PN
21	35 / #12	Cable Plug for Socket	SOU1278-ND	169.84	160.91	156.44	UTVD40A35PN
22	35 / #12	Recept. for Pin	SOU1277-ND	137.83	130.58	126.95	UTVB40A35PN

‡ See Trim Trio Contact section for contacts

Trim Trio Accessories

Fig.	Description	Digi-Key Part No.	Price Each			Souriau Part No.
			1	10	25	
Cable Clamp for UTO and UTOW						
23	#10 Cable Clamp Metal	SOU1048-ND	13.60	12.89	12.53	UT010AC
—	#10 Cable Clamp Metal - IP68	SOU1053-ND†	13.22	12.53	12.18	UT010JCS
23	#12 Cable Clamp Metal	SOU1049-ND	14.50	13.74	13.36	UT012AC
—	#12 Cable Clamp Metal - IP68	SOU1054-ND†	15.24	14.44	14.04	UT012JCS
23	#14 Cable Clamp Metal	SOU1050-ND	14.73	13.95	13.57	UT014AC
—	#14 Cable Clamp Metal - IP68	SOU1055-ND†	17.23	16.33	15.88	UT014JCS
23	#16 Cable Clamp Metal	SOU1499-ND	15.92	15.09	14.67	UT016AC
—	#16 Cable Clamp Metal - IP68	SOU1056-ND§†	29.26	27.72	26.95	UT016JC
23	#18 Cable Clamp Metal	SOU1051-ND	21.98	20.83	20.25	UT018AC
—	#18 Cable Clamp Metal - IP68	SOU1057-ND§†	32.57	30.86	30.00	UT018JCL
23	#20 Cable Clamp Metal	SOU1500-ND	18.96	17.97	17.47	UT020AC
—	#20 Cable Clamp Metal - IP68	SOU1502-ND†	23.39	22.16	21.55	UT020JCS
23	#22 Cable Clamp Metal	SOU1501-ND	25.00	23.69	23.03	UT022AC
—	#22 Cable Clamp Metal - IP68	SOU1503-ND†	25.40	24.07	23.40	UT022JCS
23	#24 Cable Clamp Metal	SOU1052-ND	25.97	24.61	23.93	UT024AC
—	#24 Cable Clamp Metal - IP68	SOU1504-ND†	27.44	26.00	25.27	UT024JCS
Cable Clamp for UTG and UTP						
24	#10 Cable Clamp	SOU1124-ND	4.88	4.63	4.50	UTG10AC
—	#10 Cable Clamp - IP65	SOU1131-ND†	7.73	7.33	7.13	UTG10PG
24	#12 Cable Clamp	SOU1125-ND	5.02	4.76	4.62	UTG12AC
—	#12 Cable Clamp - IP65	SOU1132-ND†	8.02	7.60	7.39	UTG12PG
24	#14 Cable Clamp	SOU1498-ND	5.21	4.94	4.80	UTG14AC
—	#14 Cable Clamp - IP65	SOU1133-ND†	8.59	8.14	7.91	UTG14PG
24	#16 Cable Clamp	SOU1126-ND	5.32	5.04	4.90	UTG16AC
—	#16 Cable Clamp - IP65	SOU1134-ND†	8.99	8.52	8.28	UTG16PG
24	#18 Cable Clamp	SOU1127-ND	5.66	5.37	5.22	UTG18-AC
—	#18 Cable Clamp - IP65	SOU1135-ND†	9.33	8.84	8.60	UTG18PG
24	#20 Cable Clamp	SOU1128-ND	6.54	6.20	6.02	UTG20AC
—	#20 Cable Clamp - IP65	SOU1136-ND†	10.47	9.92	9.65	UTG20PG
24	#22 Cable Clamp	SOU1129-ND	6.86	6.50	6.32	UTG22AC
—	#22 Cable Clamp - IP65	SOU1137-ND†	10.87	10.30	10.01	UTG22PG
24	#24 Cable Clamp	SOU1130-ND	7.26	6.88	6.69	UTG24AC
—	#24 Cable Clamp - IP65	SOU1138-ND†	13.68	12.96	12.60	UTG24PG
Sealing Gasket for UTO, UTOW, UTG, and UTP						
—	#10 Sealing for Wall Mt. Recept.	SOU1058-ND	.44	.42	.40	UTFD12B
	#12 Sealing for Wall Mt. Recept.	SOU1059-ND	.36	.35	.34	UTFD13B
	#14 Sealing for Wall Mt. Recept.	SOU1060-ND	1.92	1.82	1.77	UTFD14B
	#16 Sealing for Wall Mt. Recept.	SOU1061-ND	2.12	2.01	1.93	UTFD15B
	#18 Sealing for Wall Mt. Recept.	SOU1062-ND	1.92	1.82	1.77	UTFD16B
	#20 Sealing for Wall Mt. Recept.	SOU1505-ND	1.92	1.82	1.77	UTFD17B
	#22 Sealing for Wall Mt. Recept.	SOU1506-ND	1.92	1.82	1.77	UTFD18B
	#24 Sealing for Wall Mt. Recept.	SOU1063-ND	1.92	1.82	1.77	UTFD19B

§ Long Version † For water protected applications

Trim Trio Contacts

Type	AWG	Plating	Digi-Key Part No.	Pricing				Souriau Part No.
				1	10	25	100	
#8 Machined Solder Contacts								
Socket	12-8	Gold	SOU1246-ND	7.32	69.30	168.44	558.25	82911684ZX
Pin	12-8	Gold	SOU1245-ND	7.05	66.78	162.31	537.95	82911685NZX
#12 Machined Solder Contacts								
Socket	14-12	Gold	SOU1244-ND	6.38	60.48	147.00	487.20	RC12Z43D28
Pin	14-12	Gold	SOU1243-ND	7.88	56.70	133.88	472.50	RM12Z43D28
#16 Machined Crimp Contacts and Coaxial								
Socket	20-16	Gold	SOU1237-ND	2.43	23.04	56.00	185.60	RC16M23D28
Pin	20-16	Gold	SOU1238-ND	1.90	17.94	43.13	131.10	RM16M23D28
Socket	22-20	Gold	SOU1239-ND	2.55	24.12	58.63	194.30	RC20M12D28
Pin	22-20	Gold	SOU1240-ND	2.89	27.30	65.63	199.50	RM20M12D28
Socket	Coax. Kit Multi pc. RG-174U/188U Gold		SOU1241-ND	11.91	112.86	274.31	909.15	RCDXK-1D28
Pin	Coax. Kit Multi pc. RG-174U/188U Gold		SOU1242-ND	11.91	112.86	274.31	909.15	RMDXK-10D28

Type	AWG	Plating	Digi-Key Part No.	Loose Piece Pricing		Souriau Part No.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 3,000	Souriau Part No.
				25	100			10	50	100			
#16 Stamped and Formed Crimp Contacts													
Socket	14	30µ" Gold	SOU1247-ND	30.63	93.10	SC14ML-1S6	SOU1247CT-ND	12.84	56.81	93.86	SOU1247TR-ND	686.00/M	SC14M-1S6
Pin	14	30µ" Gold	SOU1251-ND	25.00	76.00	SM14ML-1S6	SOU1251CT-ND	10.50	46.46	76.76	SOU1251TR-ND	560.00/M	SM14M-1S6
Socket	14	Tin	SOU1255-ND	11.88	36.10	SC14ML-1TK6	SOU1255CT-ND	5.04	22.31	36.86	SOU1255TR-ND	252.00/M	SC14M1TK6
Pin	14	Tin	SOU1259-ND	9.38	28.50	SM14ML-1TK6	SOU1259CT-ND	4.00	17.71	29.26	SOU1259TR-ND	196.00/M	SM14M1TK6
Socket	18-16	30µ" Gold	SOU1248-ND	30.63	93.10	SC16ML-1S6	SOU1248CT-ND	11.80	52.21	86.26	SOU1248TR-ND	700.00/M	SC16M-1S6
Pin	18-16	30µ" Gold	SOU1252-ND	27.50	83.60	SM16ML-1S6	SOU1252CT-ND	11.54	51.06	84.36	SOU1252TR-ND	560.00/M	SM16M-1S6
Socket	18-16	Tin	SOU1256-ND	11.88	36.10	SC16ML-1TK6	SOU1256CT-ND	5.04	22.31	36.86	SOU1256TR-ND	252.00/M	SC16M1TK6
Pin	18-16	Tin	SOU1260-ND	9.38	28.50	SM16ML-1TK6	SOU1260CT-ND	4.00	17.71	29.26	SOU1260TR-ND	215.60/M	SM16M1TK6
Socket	22-20	30µ" Gold	SOU1249-ND	30.63	93.10	SC20ML-1S6	SOU1249CT-ND	11.80	52.21	86.26	SOU1249TR-ND	630.00/M	SC20M-1S6
Pin	22-20	30µ" Gold	SOU1253-ND	27.50	83.60	SM20ML-1S6	SOU1253CT-ND	11.54	51.06	84.36	SOU1253TR-ND	560.00/M	SM20M-1S6
Socket	22-20	Tin	SOU1257-ND	11.88	36.10	SC20ML-1TK6	SOU1257CT-ND	5.04	22.31	36.86	SOU1257TR-ND	252.00/M	SC20M-1TK6
Pin	22-20	Tin	SOU1261-ND	9.38	28.50	SM20ML-1TK6	SOU1261CT-ND	4.00	17.71	29.26	SOU1261TR-ND	196.00/M	SM20M-1TK6
Socket	26-24	30µ" Gold	SOU1250-ND	28.13	85.50	SC24ML-1S6	SOU1250CT-ND	11.80	52.21	86.26	SOU1250TR-ND	630.00/M	SC24M-1S6
Pin	26-24	30µ" Gold	SOU1254-ND	25.00	76.00	SM24ML1S6	SOU1254CT-ND	10.50	46.46	76.76	SOU1254TR-ND	560.00/M	SM24M-1S6
Socket	26-24	Tin	SOU1258-ND	11.25	34.20	SC24ML-1TK6	SOU1258CT-ND	5.04	22.31	36.86	SOU1258TR-ND	252.00/M	SC24M1TK6
Pin	26-24	Tin	SOU1262-ND	15.00	45.60	SM24ML-1TK6	SOU1262CT-ND	6.34	28.06	46.36	SOU1262TR-ND	182.00/M	SM24M1TK6
#20 Stamped and Formed Crimp Contact													
Socket	22-20	30µ" Gold	SOU1265-ND	8.75	26.60	SC20WL-3S25	SOU1265CT-ND	3.74	16.56	27.36	SOU1265TR-ND	182.00/M	SC20W-3S25
Pin	22-20	30µ" Gold	SOU1266-ND	9.38	28.50	SM20WL-3S26	SOU1266CT-ND	4.00	17.71	29.26	SOU1266TR-ND	196.00/M	SM20W-3S26
Socket	22-20	Tin	SOU1269-ND	7.50	22.80	SC20WL-3TK6	—	—	—	—	—	—	—
Pin	22-20	Tin	SOU1271-ND	6.25	19.00	SM20WL-3TK6	—	—	—	—	—	—	—
Socket	26-24	30µ" Gold	SOU1267-ND	9.38	28.50	SC24WL-3S25	SOU1267CT-ND	4.00	17.71	29.26	SOU1267TR-ND	182.00/M	SC24W-3S25
Pin	26-24	30µ" Gold	SOU1268-ND	13.75	41.80	SM24WL-3S26	SOU1268CT-ND	5.82	25.76	42.56	SOU1268TR-ND	182.00/M	SM24W-3S26
Socket	26-24	Tin	SOU1270-ND	7.50	22.80	SC24WL-3TK6	—	—	—	—	—	—	—
Pin	26-24	Tin	SOU1272-ND	29.50	102.07	SM24WL-3TK6	—	—	—	—	—	—	—

Crimp Tools

Description	Digi-Key Part No.	Price Each	Souriau Part No.
Crimp with Die for #16-20 Stamped Contacts 26-14AWG	SOU1263-ND	331.70	Y14MTV
Extraction Tool for all size 16 Contacts	SOU1264-ND	103.04	RX2025GE1
Extraction Tool for all size 20 Contacts	SOU1507-ND	215.52	RX20D44

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Used with Souriau Trim Trio Machined Contacts.

The 616336 crimp tool can be used with RC/RM contacts. The 615717 and 615708 are for the RC(M)DXK coaxial contacts.

Requires both tools for an inner contact crimp and an outer ferrule crimp.

Description	Digi-Key Part No.	Price Each	Astro Part No.
Crimp without Positioner for #16 Machined Contacts	616336-ND	297.27	616336
Positioner for 616336 Tool Frame	TGV702-ND	107.60	TGV702
Crimp without Positioner for Inner Crimp Coaxial Contacts	615717-ND	297.27	615717
Positioner for 615717 Tool Frame	620100-ND	48.97	620100
Crimp without Turret for Outer Crimp Coaxial Contacts	615708-ND	297.27	615708
Turret Head for 615708 Tool Frame	620439-ND	77.96	620439

SOURIAU
Connection Technology

8D/D38999 Aluminum and Composite Connectors

Applications: • Aeronautics and military • Marine and offshore • Industrial **Features:** • High contact density up to 128 contacts #22D • Quick screw coupling with self locking mechanism • Composite shell is recommended wherever weight is critical (typically -30% versus aluminum version) or particularly in harsh climatic and mechanical environments **Specifications:** • **Endurance:** 500 mating-unmating operations • **Aluminum Shell Temperature Range:** Cadmium olive drab (W): -65°C ~ 175°C; Nickel (F): -65°C ~ 200°C • **Composite Shell Temperature Range:** Cadmium olive drab (J): -65°C ~ 175°C; Nickel (M): -65°C ~ 200°C

Fig. 1 — Square Flange Receptacle

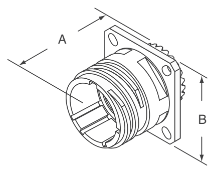

Fig. 2 — Jam Nut Receptacle

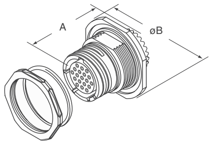

Fig. 3 — Plug with RF1 Shielding

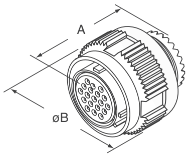

Insert Patterns ***(Front face of pin insert shown)***
Drawings not to scale

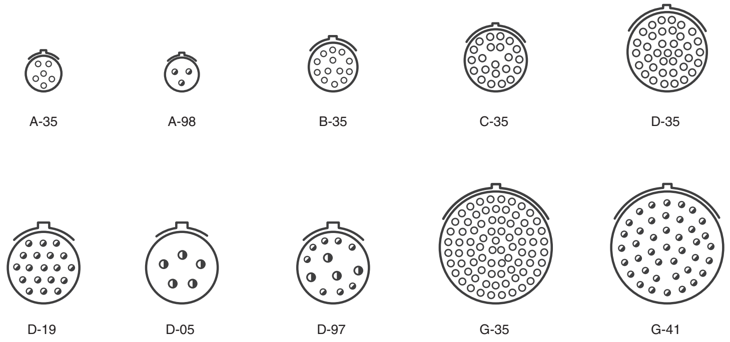

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Plating	Description	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10
				Aluminum					
1	A-35	6/22D	Nickel	Recept. with Pins	31.50	23.80	SOU1339-ND	63.75	60.39
1	A-35	6/22D	Nickel	Recept. with Socket	31.50	23.80	SOU1340-ND	55.08	52.19
1	A-35	6/22D	Olive drab	Recept. with Socket	31.50	23.80	SOU1362-ND	63.88	60.52
1	A-35	6/22D	Olive drab	Recept. with Socket	31.50	23.80	SOU1363-ND	59.15	56.04
1	A-98	3/20	Olive drab	Recept. with Socket	31.50	23.80	SOU1366-ND	53.28	50.48
2	A-98	3/20	Olive drab	Recept. with Pins	32.50	30.50	SOU1391-ND	64.39	61.01
2	A-98	3/20	Olive drab	Recept. with Socket	32.50	30.50	SOU1393-ND	55.65	52.73
1	C-35	22/22D	Olive drab	Recept. with Pins	31.50	28.60	SOU1370-ND	74.77	70.83
1	C-35	22/22D	Olive drab	Recept. with Socket	31.50	28.60	SOU1372-ND	74.21	70.31
3	C-35	22/22D	Nickel	Plug with Pins	31.00	29.40	SOU1418-ND	59.74	56.60
1	D-35	37/22D	Nickel	Recept. with Pins	31.50	31.00	SOU1347-ND	58.03	54.98
2	D-19	19/20	Olive drab	Recept. with Pins	32.50	41.60	SOU1402-ND	65.74	62.28
2	D-19	19/20	Olive drab	Recept. with Socket	32.50	41.60	SOU1403-ND	72.87	69.03
2	D-05	5/16	Olive drab	Recept. with Socket	32.50	41.60	SOU1405-ND	68.95	65.33
2	D-97	8/20, 4/16	Olive drab	Recept. with Socket	32.50	41.60	SOU1406-ND	77.10	73.05
3	G-35	79/22D	Olive drab	Plug with Socket	31.00	41.70	SOU1455-ND	121.51	115.11
				Composite					
1	A-35	6/22D	Nickel	Recept. with Pins	30.10	23.80	SOU1359-ND	51.83	49.11
1	A-35	6/22D	Nickel	Recept. with Socket	30.10	23.80	SOU1360-ND	49.86	47.24
3	A-35	6/22D	Olive drab	Plug with Pins	31.00	21.80	SOU1426-ND	49.97	47.34
3	A-35	6/22D	Nickel	Plug with Pins	31.00	21.80	SOU1431-ND	61.45	58.22
3	A-35	6/22D	Nickel	Plug with Socket	31.00	21.80	SOU1432-ND	61.26	58.04
1	A-98	3/20	Nickel	Recept. with Pins	30.10	23.80	SOU1361-ND	51.11	48.42
3	A-98	3/20	Nickel	Plug with Socket	31.00	21.80	SOU1434-ND	62.17	58.90
1	B-35	13/22D	Olive drab	Recept. with Pins	30.10	26.20	SOU1353-ND	45.96	43.55
3	B-35	13/22D	Olive drab	Plug with Socket	31.00	25.00	SOU1429-ND	57.84	54.80
1	C-35	22/22D	Olive drab	Recept. with Pins	30.10	28.60	SOU1355-ND	53.85	51.02
1	G-41	41/20	Olive drab	Recept. with Pins	30.10	39.70	SOU1358-ND	59.66	56.52

851/26482 Connector Series

Features:

• Bayonet coupling • Environmental and hermetic versions • Solder, crimp, straight spills and wire wrap versions

Applications:

• Former connector for military applications • Now used in the fields of professional and general electronics

Specifications:

• **Working Temperature:**-55°C ~ 125°C • **Current Rating per Contact:** Size 20: 7.5A; Size 16: 13A
• **Endurance:** 500 mating/unmating cycles

Fig.	Shell Size Insert Arrange-ment No.	No. of Con-tacts/ Size	Description	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10
1	8-33	3/20	Plug w/socket	48.00	19.05	3.50	SOU1495-ND	72.30	68.49
2	10-6	6/20	Recept. w/socket	34.10	30.14	—	SOU1497-ND	38.08	36.08
1	12-3	3/16	Plug w/socket	48.00	26.15	8.20	SOU1492-ND	72.09	68.30

Fig. 1 – Plug with Straight Cable Clamp

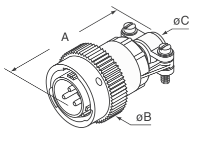

Shown without sealing gland

Fig. 2 – Jam Nut Receptacle with Backnut

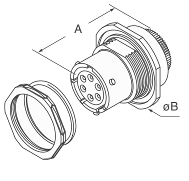

Insert Patterns ***(Front face of pin insert shown)***
Drawings not to scale

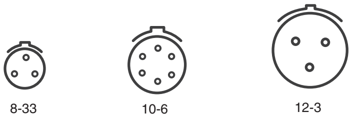

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SOURIAU
Connection Technology

NEW! Push-Pull Connectors — JBX Series

High reliability where quick, simple coupling mechanism is required.

Secure, quick confirmed mating: • Tactile • Audible • Visual

Blind mate capability: • Mechanically keyed - prevents accidental engagement of wrong connector

A versatile product: • Ergonomic design • Fast and easy to use • Modular design • 5 shell sizes • Solder, crimp, PCB, R/A PCB contact terminations

Space Saving: • Small footprint, allows access in tight applications • High density layouts 2 ~ 30 pins

Economical: • Multiple cable collets/single part number

Rugged: • Metal shielding housing, high vibration, shock environments

Socket

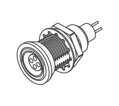

Pin

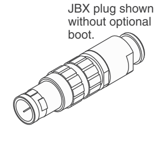

Sealed

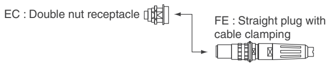
EC : Double nut receptacle
FE : Straight plug with cable clamping

EC

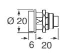

FE

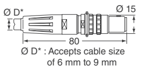

Ø D* : Accepts cable size of 6 mm to 9 mm

Unsealed

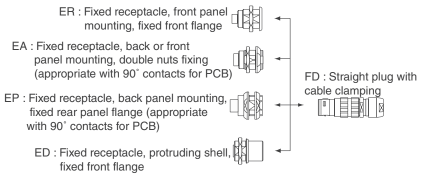
ER : Fixed receptacle, front panel mounting, fixed front flange
EA : Fixed receptacle, back or front panel mounting, double nuts fixing (appropriate with 90˚ contacts for PCB)
EP : Fixed receptacle, back panel mounting, fixed rear panel flange (appropriate with 90˚ contacts for PCB)
ED : Fixed receptacle, protruding shell, fixed front flange
FD : Straight plug with cable clamping

ER

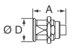

Size	0	2
A	19	24
øD	10	18

FD

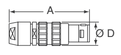

Size	0	1	2
A	39	45	52
øD	10	12	15

EA

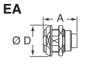

Size	0	1	2
A	19	21	24
øD	12	16	20

EP

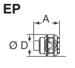

Size	0	2
A	19	24
øD	12	20

ED

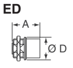

Size	0	1	2
A	19	21	24
øD	10	14	18

Shell Type	Shell Size	Contact Layout	Contact Type	Contact Terminations	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
Sealed									
FE	2	05	Pin	Solder	SOU1616-ND	59.49	56.36	54.80	JBXFE2G05MSSDSR
FE	2	12	Pin	Solder	SOU1617-ND	72.96	69.12	67.20	JBXFE2G12MSSDSR
EC	2	05	Socket	Crimp	SOU1613-ND	57.59	54.56	53.05	JBXEC2G05FCSDS
EC	2	05	Socket	Solder	SOU1614-ND	56.47	53.50	52.01	JBXEC2G05FSSDS
EC	2	12	Socket	Solder	SOU1615-ND	76.13	72.13	70.13	JBXEC2G12FSSDS
Unsealed									
FD	0	02	Pin	Solder	SOU1542-ND	21.47	20.34	19.78	JBXFD0G02MSSDSMR
FD	0	02	Pin	Crimp	SOU1543-ND	21.91	20.76	20.18	JBXFD0G02MCSDSMR
FD	0	03	Pin	Solder	SOU1544-ND	23.26	22.04	21.42	JBXFD0G03MSSDSMR
FD	0	03	Pin	Crimp	SOU1545-ND	23.92	22.67	22.04	JBXFD0G03MCSDSMR
FD	0	04	Pin	Solder	SOU1546-ND	25.06	23.75	23.09	JBXFD0G04MSSDSMR
FD	0	05	Pin	Solder	SOU1547-ND	26.85	25.44	24.73	JBXFD0G05MSSDSMR
FD	0	06	Pin	Solder	SOU1548-ND	28.65	27.15	26.39	JBXFD0G06MSSDPMR
FD	0	07	Pin	Solder	SOU1549-ND	30.44	28.84	28.04	JBXFD0G07MSSDPMR
FD	1	02	Pin	Crimp	SOU1550-ND	34.41	32.60	31.70	JBXFD1G02MCSDSMR
FD	1	03	Pin	Solder	SOU1551-ND	35.83	33.95	33.01	JBXFD1G03MSSDSMR
FD	1	04	Pin	Solder	SOU1552-ND	37.72	35.73	34.74	JBXFD1G04MSSDSMR
FD	1	05	Pin	Solder	SOU1553-ND	39.58	37.50	36.46	JBXFD1G05MSSDSMR
FD	1	05	Pin	Crimp	SOU1554-ND	40.70	38.56	37.49	JBXFD1G05MCSDSMR
FD	1	06	Pin	Solder	SOU1555-ND	41.46	39.28	38.19	JBXFD1G06MSSDSMR
FD	1	06	Pin	Crimp	SOU1556-ND	42.79	40.54	39.41	JBXFD1G06MCSDSMR
FD	1	07	Pin	Solder	SOU1557-ND	43.32	41.04	39.90	JBXFD1G07MSSDSMR
FD	1	07	Pin	Crimp	SOU1558-ND	44.88	42.52	41.34	JBXFD1G07MCSDSMR
FD	1	08	Pin	Crimp	SOU1559-ND	46.99	44.52	43.28	JBXFD1G08MCSDSMR
FD	2	02	Pin	Solder	SOU1560-ND	39.58	37.50	36.46	JBXFD2G02MSSDSMR
FD	2	02	Pin	Crimp	SOU1561-ND	40.03	37.93	36.88	JBXFD2G02MCSDSMR
FD	2	03	Pin	Solder	SOU1562-ND	41.52	39.33	38.24	JBXFD2G03MSSDSMR
FD	2	03	Pin	Crimp	SOU1563-ND	42.18	39.96	38.85	JBXFD2G03MCSDSMR
FD	2	04	Pin	Solder	SOU1564-ND	43.43	41.15	40.01	JBXFD2G04MSSDSMR
FD	2	04	Pin	Crimp	SOU1565-ND	44.33	42.00	40.83	JBXFD2G04MCSDSMR
FD	2	05	Pin	Solder	SOU1566-ND	45.35	42.97	41.78	JBXFD2G05MSSDSMR
FD	2	05	Pin	Crimp	SOU1567-ND	46.47	44.03	42.81	JBXFD2G05MCSDSMR
FD	2	06	Pin	Solder	SOU1568-ND	47.27	44.79	43.54	JBXFD2G06MSSDSMR
FD	2	06	Pin	Crimp	SOU1569-ND	48.62	46.07	44.79	JBXFD2G06MCSDSMR
FD	2	07	Pin	Solder	SOU1570-ND	49.19	46.61	45.31	JBXFD2G07MSSDSMR
FD	2	07	Pin	Crimp	SOU1571-ND	50.77	48.10	46.76	JBXFD2G07MCSDSMR
FD	2	10	Pin	Solder	SOU1572-ND	54.97	52.08	50.63	JBXFD2G10MSSDSMR
FD	2	12	Pin	Solder	SOU1573-ND	58.81	55.71	54.17	JBXFD2G12MSSDSMR
FD	2	12	Pin	Crimp	SOU1574-ND	61.48	58.25	56.63	JBXFD2G12MCSDSMR
FD	2	19	Pin	Solder	SOU1575-ND	72.26	68.46	66.56	JBXFD2G19MSSDSMR
FD	2	19	Pin	Crimp	SOU1576-ND	76.51	72.49	70.48	JBXFD2G19MCSDSMR
EA	0	02	Socket	Solder	SOU1577-ND	18.01	17.07	16.59	JBXEA0G02FSSDS
EA	0	04	Socket	Crimp	SOU1578-ND	24.28	23.01	22.37	JBXEA0G04FCSDS
EA	0	04	Socket	Str. PCB Tails	SOU1579-ND†	22.19	21.03	20.44	JBXEA0G04FPSDS
EA	0	04	Socket	Solder	SOU1580-ND	23.37	22.14	21.53	JBXEA0G04FSSDS
EA	0	05	Socket	Str. PCB Tails	SOU1581-ND†	24.57	23.28	22.63	JBXEA0G05FPSDS
EA	0	05	Socket	Solder	SOU1582-ND	26.07	24.70	24.01	JBXEA0G05FSSDS
EA	0	06	Socket	Solder	SOU1583-ND	28.75	27.24	26.48	JBXEA0G06FSSDP
EA	0	07	Socket	Solder	SOU1584-ND	31.43	29.78	28.95	JBXEA0G07FSSDP
ED	0	02	Socket	Crimp	SOU1585-ND	18.47	17.50	17.01	JBXED0G02FCSDSR
ED	0	03	Socket	Solder	SOU1586-ND	20.69	19.61	19.06	JBXED0G03FSSDSR
ED	0	04	Socket	Crimp	SOU1587-ND	24.28	23.01	22.37	JBXED0G04FCSDSR
ED	0	07	Socket	Solder	SOU1588-ND	31.43	29.78	28.95	JBXED0G07FSSDPR
EP	0	07	Socket	Solder	SOU1589-ND	31.43	29.78	28.95	JBXEP0G07FSSDP
ER	0	03	Socket	Solder	SOU1590-ND	20.69	19.61	19.06	JBXER0G03FSSDSR
ER	0	05	Socket	Solder	SOU1591-ND	26.07	24.70	24.01	JBXER0G05FSSDSR
EA	1	02	Socket	Solder	SOU1592-ND	27.55	26.10	25.38	JBXEA1G02FSSDS
EA	1	03	Socket	Solder	SOU1593-ND	30.31	28.71	27.92	JBXEA1G03FSSDS
EA	1	04	Socket	Solder	SOU1594-ND	33.06	31.32	30.45	JBXEA1G04FSSDS
EA	1	05	Socket	Solder	SOU1595-ND	35.82	33.93	32.99	JBXEA1G05FSSDS
EA	1	06	Socket	Solder	SOU1596-ND	38.57	36.54	35.53	JBXEA1G06FSSDS
EA	1	07	Socket	Solder	SOU1597-ND	41.33	39.15	38.07	JBXEA1G07FSSDS
EA	1	08	Socket	Solder	SOU1598-ND	44.08	41.76	40.60	JBXEA1G08FSSDS
ED	1	05	Socket	Crimp	SOU1599-ND	36.94	35.00	34.02	JBXED1G05FCSDSR
EA	2	02	Socket	Crimp	SOU1600-ND	34.35	32.55	31.64	JBXEA2G02FCSDS
EA	2	03	Socket	Crimp	SOU1601-ND	37.39	35.43	34.44	JBXEA2G03FCSDS
EA	2	04	Socket	Crimp	SOU1602-ND	40.41	38.29	37.23	JBXEA2G04FCSDS
EA	2	05	Socket	Crimp	SOU1603-ND	43.45	41.17	40.03	JBXEA2G05FCSDS
EA	2	05	Socket	Solder	SOU1604-ND	42.33	40.11	38.99	JBXEA2G05FSSDS
EA	2	07	Socket	Crimp	SOU1605-ND	49.51	46.91	45.61	JBXEA2G07FCSDS
EA	2	07	Socket	Solder	SOU1606-ND	47.94	45.42	44.16	JBXEA2G07FSSDS
EA	2	06	Socket	Solder	SOU1607-ND	45.14	42.77	41.58	JBXEA2G06FSSDS
EA	2	19	Socket	Crimp	SOU1608-ND	85.86	81.35	79.09	JBXEA2G19FCSDS
EP	2	19	Socket	Crimp	SOU1609-ND	85.86	81.35	79.09	JBXEP2G19FCSDS
ER	2	12	Socket	Crimp	SOU1610-ND	64.66	61.26	59.56	JBXER2G12FCSDSR
ER	2	19	Socket	Crimp	SOU1611-ND	85.86	81.35	79.09	JBXER2G19FCSDSR
ED	2	12	Socket	Crimp	SOU1612-ND	64.66	61.26	59.56	JBXED2G12FCSDSR
ER	0	04	Socket	Solder	SOU1624-ND	23.37	22.14	21.53	JBXER0G04FSSDSR
ER	0	07	Socket	Solder	SOU1625-ND	31.43	29.78	28.95	JBXER0G07FSSDPR
Accessories									
Protective Boot, Shell Size: 0, Black					SOU1618-ND	4.88	4.63	4.50	JBX0MPN
Protective Boot, Shell Size: 1, Black					SOU1619-ND	1.98	1.88	1.82	JBX1MPN
Protective Boot, Shell Size: 2, Black					SOU1620-ND	2.17	2.06	2.01	JBX2MPN
Insulating Washer, Shell Size: 0, Black					SOU1621-ND	1.87	1.77	1.70	JBX0RIN
Insulating Washer, Shell Size: 1, Black					SOU1622-ND	2.70	2.55	2.45	JBX1RIN
Insulating Washer, Shell Size: 2, Black					SOU1623-ND	2.15	2.04	1.98	JBX2RIN

† For receptacles with female contacts only

HRS
HIROSE ELECTRIC CO., LTD.

Circular Connectors

HR10 Series 7mm Push-Pull Connectors

Gold Plated Contacts

Features: The most compact HR10 series with well-balanced, simplified layout in limited space; Easy "Push-Pull" Operation; Polarization: Five-key system permits only one way of coupling.
Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1000MΩ or more at DC100V • Contact Resistance: 10mΩ or less at DC1A

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
HR10 Series						
4	Plug with Pin Insert	HR1558-ND	14.77	13.91	12.17	HR10-7P-4P(73)
6	Plug with Pin Insert	HR1560-ND	15.64	14.72	12.88	HR10-7P-6P(73)
12	Plug with Pin Insert	HR1562-ND	17.25	16.68	14.95	HR10-10P-12P(73)
4	Plug with Socket Insert	HR1559-ND	15.36	14.85	13.32	HR10-7P-4S(73)
6	Plug with Socket Insert	HR1561-ND	17.10	16.53	14.82	HR10-7P-6S(73)
12	Plug with Socket Insert	HR1563-ND	24.54	23.73	21.27	HR10-10P-12S(73)
4	Receptacle with Pin Insert	HR1569-ND	10.83	9.42	7.54	HR10-7R-4P(73)
6	Receptacle with Pin Insert	HR1571-ND	10.56	9.77	8.19	HR10-7R-6P(73)
12	Receptacle with Pin Insert	HR1573-ND	14.32	13.25	11.10	HR10-10R-12P(73)
4	Receptacle with Socket Insert	HR1568-ND	13.08	12.10	10.14	HR10-7R-4S(73)
6	Receptacle with Socket Insert	HR1570-ND	14.84	13.73	11.51	HR10-7R-6S(73)
12	Receptacle with Socket Insert	HR1572-ND	15.60	15.08	13.52	HR10-10R-12S(73)
4	Jack with Pin Insert	HR1565-ND	12.78	12.04	10.53	HR10-7J-4P(73)
6	Jack with Pin Insert	HR1567-ND	13.62	12.82	11.22	HR10-7J-6P(73)
12	Jack with Pin Insert	HR1575-ND	15.17	14.66	13.15	HR10-10J-12P(73)
4	Jack with Socket Insert	HR1564-ND	15.47	14.56	12.74	HR10-7J-4S(73)
6	Jack with Socket Insert	HR1566-ND	15.45	14.94	13.39	HR10-7J-6S(73)
12	Jack with Socket Insert	HR1574-ND	22.37	21.62	19.39	HR10-10J-12S(73)
6	Receptacle with Pin Insert, PCB	HR1580-ND	10.86	10.05	8.42	HR10-7R-6PA(73)
12	Receptacle with Pin Insert, PCB	HR1578-ND	14.98	13.86	11.61	HR10-10R-12PA(73)
4	Receptacle with Socket Insert, PCB	HR1579-ND	12.38	11.46	9.60	HR10-7R-4SA(73)
6	Receptacle with Socket Insert, PCB	HR1577-ND	14.84	13.73	11.51	HR10-7R-6SA(73)
—	Dust Cap for 4-6 Position Recept.	HR345-ND	3.25	2.69	2.02	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.25	2.69	2.02	HR10-10R-C

Plug Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D
4	HR1558, HR1559	28.50	11.00	7.00	5.20
6	HR1560, HR1561	28.50	11.00	7.00	5.20
12	HR1562, HR1563	32.50	14.00	9.50	7.20

Jack Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C
4	HR1565, HR1564	28.50	8.85	5.20
6	HR1567, HR1566	28.50	8.85	5.20
12	HR1575, HR1574	32.50	11.90	7.20

Receptacle Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B
4	HR1579 HR1569 HR1568	15.50 14.00 14.00	8.85 8.85 8.85
6	HR1580, HR1577 HR1571, HR1570	15.50 14.00	8.85 8.85
12	HR1573, HR1572 HR347, HR1578	16.00 15.50	11.90 11.90

Plug

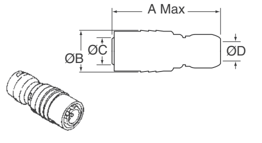

Jack

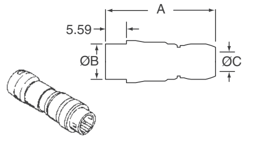

Receptacle

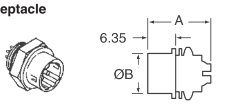

Dust Cap

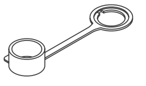

HR10A Series

Snap-In and Threaded Coupling Connectors

SILVER PLATED CONTACTS

Features: • Compatible with current HR10 series: Cable crimping tool maintains consistent cable clamp force. • To prevent from slipping, HR10A series are accompanied with ruled-off-squares roulette.
Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 10mΩ maximum

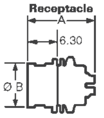

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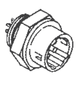

Threaded Receptacle

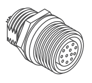

Receptacle Charts

No. of Pos.	Digi-Key Part No.	Dimensions (mm)	
		A	B
4	HR1607, HR1605	15.60	8.85
	HR1592, HR1590, HR1593, HR1591	14.00	8.85
	HR1667	12.20	8.85
	HR1668	12.00	8.85
5	HR1616	15.60	8.85
	HR1615, HR219, HR1614	14.00	8.85
6	HR1610, HR1611, HR1609, HR1608	15.60	8.85
	HR1617	15.50	11.00
	HR1581	14.00	11.00
	HR1596, HR1594, HR1597, HR1595	14.00	8.85
	HR233, HR1669	12.20	8.85
	HR1670	12.00	8.85
10	HR1637, HR1639	16.00	14.00
	HR1638, HR1640	16.00	11.90
	HR1646, HR1644, HR1645	15.60	11.90

No. of Pos.	Digi-Key Part No.	Dimensions (mm)	
		A	B
10	HR1676	12.20	11.90
	HR1677	12.00	11.90
12	HR1651	22.00	11.90
	HR1658, HR1712, HR1716	16.00	14.00
	HR1627, HR1625, HR1628, HR1626	16.00	11.90
	HR1647, HR1648, HR1649, HR1650	15.60	11.90
	HR1661, HR1654, HR1711	15.50	14.00
	HR1678	12.20	11.90
	HR1660	12.00	14.00
	HR1679	11.90	12.00
20	HR377, HR1697, HR1698	20.20	15.40
	HR1695, HR1696	19.20	15.40
	HR1702, HR1704, HR1692, HR1690	17.80	18.00
	HR1691	17.80	15.40
	HR1687, HR1686	15.00	15.40

Plug

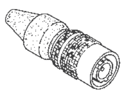

Threaded Plug

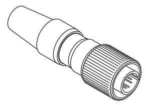

Jack

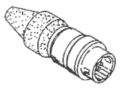

Threaded Jack

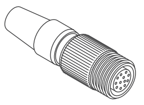

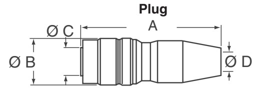

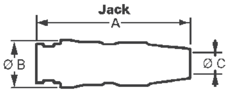

Plug Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm)			
		A	B	C	D
4	HR1582, HR1584, HR1663, HR1664, HR1583, HR1585	35.00	11.50	7.00	5.00
5	HR1612, HR1613	35.00	11.50	7.00	5.00
6	HR1619, HR1620	35.00	12.00	7.00	5.00
	HR1586, HR1588, HR1665, HR1666, HR1587, HR1589	35.00	11.50	7.00	5.00
10	HR1633, HR1635, HR1672, HR1673, HR1634, HR1636	43.00	14.70	9.50	7.00
12	HR371, HR1709, HR1713, HR673, HR1710, HR1714	45.80	15.00	9.50	6.50
	HR1653, HR1659, HR366, HR1656	43.00	17.00	9.50	7.00
	HR1621, HR1623, HR1674, HR1675, HR1622, HR1624	43.00	14.70	9.50	7.00
20	HR1652	64.80	19.00	13.00	7.00
	HR1684, HR1685, HR1693, HR1699, HR1694, HR1700	58.80	19.00	13.00	7.00
	HR1707, HR1708	56.50	20.00	13.00	7.00

Jack Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm)		
		A	B	C
4	HR1599, HR1598, HR1671, HR1600	35.30	8.85	5.00
6	HR1603, HR1601, HR1604, HR1602	35.30	8.85	5.00
10	HR1641, HR1643, HR1680, HR1681, HR1642	43.00	11.90	7.00
12	HR1631, HR1629, HR1682, HR1683, HR1632, HR1630	43.00	11.90	7.00
	HR1662, HR1655	41.30	14.70	7.00
20	HR1689, HR1688	58.50	15.40	7.00

Dimensions in mm

Female Socket

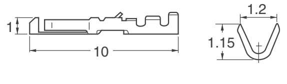

Male Pin

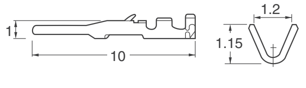

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	Solder Cup Type — RoHS Compliant					
4	Plug with Pin Insert	HR1582-ND	12.36	11.44	9.58	HR10A-7P-4P(73)
4	Plug with Pin Insert, 5mm Diameter Cable Hole through Boot	HR1583-ND*	12.94	11.97	10.03	HR10A-7P-4P(74)
5	Plug with Pin Insert	HR1612-ND	12.80	11.84	9.92	HR10A-7P-5P(73)
6	Plug with Pin Insert	HR1586-ND	13.08	12.10	10.14	HR10A-7P-6P(73)
6	Plug with Pin Insert	HR1587-ND*	13.64	12.62	10.58	HR10A-7P-6P(74)
10	Plug with Pin Insert	HR1633-ND	13.41	12.63	11.05	HR10A-10P-10P(73)
10	Plug with Pin Insert	HR1634-ND*	14.86	13.99	12.24	HR10A-10P-10P(74)
12	Plug with Pin Insert	HR1621-ND	15.47	14.56	12.74	HR10A-10P-12P(73)
12	Plug with Pin Insert	HR1622-ND	16.66	15.68	13.72	HR10A-10P-12P(74)
20	Plug with Pin Insert	HR1693-ND	32.40	31.32	28.08	HR10A-13P-20P(73)
20	Plug with Pin Insert, 7mm Diameter Cable Hole through Boot	HR1694-ND*	34.65	33.50	30.03	HR10A-13P-20P(74)
20	Plug with Pin Insert, 8.3mm Diameter Cable Hole through Boot	HR1652-ND*	34.50	33.35	29.90	HR10A-13PA-20P(74)
4	Plug with Socket Insert	HR1584-ND	12.10	11.20	9.38	HR10A-7P-4S(73)
4	Plug with Socket Insert	HR1585-ND	12.54	11.60	9.72	HR10A-7P-4S(74)
5	Plug with Socket Insert	HR1613-ND	12.24	11.33	9.49	HR10A-7P-5S(73)
6	Plug with Socket Insert	HR1588-ND	12.38	11.46	9.60	HR10A-7P-6S(73)
6	Plug with Socket Insert	HR1589-ND*	13.28	12.29	10.30	HR10A-7P-6S(74)
10	Plug with Socket Insert	HR1635-ND	14.78	13.68	11.46	HR10A-10P-10S(73)
10	Plug with Socket Insert	HR1636-ND*	13.36	12.58	11.01	HR10A-10P-10S(74)
12	Plug with Socket Insert	HR1623-ND	14.37	13.52	11.83	HR10A-10P-12S(73)
12	Plug with Socket Insert	HR1624-ND*	15.98	15.04	13.16	HR10A-10P-12S(74)
20	Plug with Socket Insert	HR1699-ND	38.92	36.98	34.75	HR10A-13P-20S(73)
20	Plug with Socket Insert	HR1700-ND*	41.02	38.97	36.63	HR10A-13P-20S(74)
4	Receptacle with Pin Insert	HR1592-ND	7.67	6.49	4.87	HR10A-7R-4P(73)
4	Receptacle with Pin Insert	HR1593-ND	8.24	6.98	5.24	HR10A-7R-4P(74)
5	Receptacle with Pin Insert	HR1615-ND	7.88	6.67	5.00	HR10A-7R-5P(73)
6	Receptacle with Pin Insert	HR1596-ND	8.42	7.13	5.35	HR10A-7R-6P(73)
6	Receptacle with Pin Insert	HR1597-ND*	8.12	7.06	5.65	HR10A-7R-6P(74)
10	Receptacle with Pin Insert	HR1639-ND	10.37	9.02	7.22	HR10A-10R-10P(73)
10	Receptacle with Pin Insert	HR1640-ND*	10.58	9.79	8.20	HR10A-10R-10P(74)
12	Receptacle with Pin Insert	HR1627-ND	10.00	9.25	7.75	HR10A-10R-12P(73)
12	Receptacle with Pin Insert	HR1628-ND	11.32	10.48	8.78	HR10A-10R-12P(74)
20	Receptacle with Pin Insert	HR1697-ND	19.20	18.56	16.64	HR10A-13R-20P(73)
20	Receptacle with Pin Insert	HR1698-ND*	21.30	20.59	18.46	HR10A-13R-20P(74)
4	Receptacle with Socket Insert	HR1590-ND	7.15	6.05	4.54	HR10A-7R-4S(73)
4	Receptacle with Socket Insert	HR1591-ND*	7.90	6.69	5.02	HR10A-7R-4S(74)
5	Receptacle with Socket Insert	HR1614-ND	7.15	6.05	4.54	HR10A-7R-5S(73)
6	Receptacle with Socket Insert	HR1594-ND	7.33	6.21	4.66	HR10A-7R-6S(73)
6	Receptacle with Socket Insert	HR1595-ND*	8.48	7.18	5.38	HR10A-7R-6S(74)
10	Receptacle with Socket Insert	HR1637-ND	9.25	8.04	6.44	HR10A-10R-10S(71)
10	Receptacle with Socket Insert	HR1638-ND*	11.11	9.66	7.73	HR10A-10R-10S(72)
12	Receptacle with Socket Insert	HR1625-ND	10.05	8.74	7.00	HR10A-10R-12S(71)
12	Receptacle with Socket Insert	HR1626-ND	10.50	9.72	8.14	HR10A-10R-12S(72)
20	Receptacle with Socket Insert	HR1695-ND	37.20	35.96	32.24	HR10A-13R-20S(73)
20	Receptacle with Socket Insert	HR1696-ND*	36.96	35.12	33.00	HR10A-13R-20S(74)
4	Jack with Pin Insert	HR1599-ND	11.62	10.75	9.01	HR10A-7J-4P(73)
4	Jack with Pin Insert	HR1600-ND*	12.08	11.18	9.37	HR10A-7J-4P(74)
6	Jack with Pin Insert	HR1603-ND	12.22	11.31	9.48	HR10A-7J-6P(73)
6	Jack with Pin Insert	HR1604-ND*	12.92	11.96	10.02	HR10A-7J-6P(74)
10	Jack with Pin Insert	HR1643-ND	13.97	13.16	11.51	HR10A-10J-10P(73)
12	Jack with Pin Insert	HR1631-ND	15.47	14.56	12.74	HR10A-10J-12P(73)
12	Jack with Pin Insert	HR1632-ND	16.49	15.52	13.58	HR10A-10J-12P(74)
4	Jack with Socket Insert	HR1598-ND	11.32	10.48	8.78	HR10A-7J-4S(73)
6	Jack with Socket Insert	HR1601-ND	11.66	10.79	9.04	HR10A-7J-6S(73)
6	Jack with Socket Insert	HR1602-ND*	12.38	11.46	9.60	HR10A-7J-6S(74)
10	Jack with Socket Insert	HR1641-ND	13.84	12.81	10.73	HR10A-10J-10S(73)
10	Jack with Socket Insert	HR1642-ND*	13.26	12.48	10.92	HR10A-10J-10S(74)
12	Jack with Socket Insert	HR1629-ND	14.16	13.33	11.67	HR10A-10J-12S(73)
12	Jack with Socket Insert	HR1630-ND*	15.81	14.88	13.02	HR10A-10J-12S(74)
	Crimp Type (contacts sold separately)					
6	Receptacle for Pin Insert	HR233-ND	7.05	5.84	4.38	HR10A-7R-6PC
	Crimp Type (contacts sold separately) — RoHS Compliant					
4	Plug for Pin Insert	HR1663-ND	11.96	11.07	9.27	HR10A-7P-4PC(73)
6	Plug for Pin Insert	HR1665-ND	11.26	10.42	8.73	HR10A-7P-6PC(73)
10	Plug for Pin Insert	HR1672-ND	13.19	12.42	10.87	HR10A-10P-10PC(73)
12	Plug for Pin Insert	HR1674-ND	12.84	12.08	10.57	HR10A-10P-12PC(73)
20	Plug for Pin Insert	HR1684-ND	28.95	27.99	25.09	HR10A-13P-20PC(73)

* Gold Plated

(Continued)

HIROSE ELECTRIC CO., LTD.

Circular Connectors

HR10A Series Snap-In and Threaded Coupling Connectors *(Cont.)*

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Plug for Socket Insert	HR1664-ND	12.10	11.20	9.38	HR10A-7P-4SC(73)
6	Plug for Socket Insert	HR1666-ND	12.10	11.20	9.38	HR10A-7P-6SC(73)
10	Plug for Socket Insert	HR1673-ND	13.43	12.64	11.06	HR10A-10P-10SC(73)
12	Plug for Socket Insert	HR1675-ND	13.43	12.64	11.06	HR10A-10P-12SC(73)
20	Plug for Socket Insert	HR1685-ND	28.95	27.99	25.09	HR10A-13P-20SC(73)
4	Receptacle for Pin Insert	HR1667-ND	6.92	5.86	4.39	HR10A-7R-4PC(73)
6	Receptacle for Pin Insert	HR1669-ND	6.92	5.86	4.39	HR10A-7R-6PC(73)
10	Receptacle for Pin Insert	HR1676-ND	8.53	7.42	5.94	HR10A-10R-10PC(71)
12	Receptacle for Pin Insert	HR1678-ND	8.53	7.42	5.94	HR10A-10R-12PC(71)
20	Receptacle for Pin Insert	HR1687-ND	15.00	14.50	13.00	HR10A-13R-20PC(73)
4	Receptacle for Socket Insert	HR1668-ND	6.55	5.55	4.16	HR10A-7R-4SC(73)
6	Receptacle for Socket Insert	HR1670-ND	6.55	5.55	4.16	HR10A-7R-6SC(73)
10	Receptacle for Socket Insert	HR1677-ND	8.86	7.70	6.16	HR10A-10R-10SC(71)
12	Receptacle for Socket Insert	HR1679-ND	8.53	7.42	5.94	HR10A-10R-12SC(71)
20	Receptacle for Socket Insert	HR1686-ND	15.00	14.50	13.00	HR10A-13R-20SC(73)
10	Jack for Pin Insert	HR1680-ND	13.01	12.24	10.71	HR10A-10J-10PC(73)
12	Jack for Pin Insert	HR1682-ND	13.01	12.24	10.71	HR10A-10J-12PC(73)
20	Jack for Pin Insert	HR1689-ND	28.50	27.55	24.70	HR10A-13J-20PC(73)
4	Jack for Socket Insert	HR1671-ND	10.92	10.11	8.47	HR10A-7J-4SC(73)
10	Jack for Socket Insert	HR1681-ND	13.24	12.47	10.91	HR10A-10J-10SC(73)
12	Jack for Socket Insert	HR1683-ND	12.89	12.13	10.62	HR10A-10J-12SC(73)
20	Jack for Socket Insert	HR1688-ND	28.50	27.55	24.70	HR10A-13J-20SC(73)
	PCB Type — RoHS Compliant					
4	Receptacle with Pin Insert	HR1607-ND	7.67	6.49	4.87	HR10A-7R-4PB(73)
6	Receptacle with Pin Insert	HR1610-ND	8.42	7.13	5.35	HR10A-7R-6PB(73)
6	Receptacle with Pin Insert	HR1611-ND*	8.66	7.33	5.50	HR10A-7R-6PB(74)
10	Receptacle with Pin Insert	HR1646-ND	10.19	8.86	7.09	HR10A-10R-10PB(71)
12	Receptacle with Pin Insert	HR1649-ND	11.34	9.86	7.89	HR10A-10R-12PB(71)
12	Receptacle with Pin Insert	HR1650-ND	12.32	11.40	9.55	HR10A-10R-12PB(72)
20	Receptacle with Pin Insert	HR1692-ND	19.05	18.42	16.51	HR10A-13R-20PB(73)
4	Receptacle with Socket Insert	HR1605-ND	7.15	6.05	4.54	HR10A-7R-4SB(73)
5	Receptacle with Socket Insert	HR1616-ND	7.33	6.21	4.66	HR10A-7R-5SB(73)
6	Receptacle with Socket Insert	HR1608-ND	7.70	6.52	4.89	HR10A-7R-6SB(73)
6	Receptacle with Socket Insert	HR1609-ND*	8.66	7.33	5.50	HR10A-7R-6SB(74)
10	Receptacle with Socket Insert	HR1644-ND	9.25	8.04	6.44	HR10A-10R-10SB(71)
10	Receptacle with Socket Insert	HR1645-ND*	10.30	8.96	7.17	HR10A-10R-10SB(72)
12	Receptacle with Socket Insert	HR1647-ND	10.05	8.74	7.00	HR10A-10R-12SB(71)
12	Receptacle with Socket Insert, Stamped Dip Post (0.2mm x 0.5mm)	HR1648-ND*	10.68	9.88	8.28	HR10A-10R-12SB(72)
20	Receptacle with Socket Insert	HR1690-ND	19.05	18.42	16.51	HR10A-13R-20SB(73)
20	Receptacle with Socket Insert	HR1691-ND*	21.15	20.45	18.33	HR10A-13R-20SB(74)
	Threaded Coupling, Solder Cup Type					
12	Plug with Pin Insert	HR371-ND	19.65	19.00	17.03	HR10A-10WTP-12P
12	Plug with Pin Insert	HR673-ND*	20.70	20.01	17.94	HR10A-10WTP-12P(01)
	Threaded Coupling, Solder Cup Type — RoHS Compliant					
6	Plug with Pin Insert	HR1619-ND	16.80	16.24	14.56	HR10A-7TP-6P(73)
6	Plug with Pin Insert	HR1620-ND*	17.25	16.68	14.95	HR10A-7TP-6P(74)
12	Plug with Pin Insert	HR1653-ND	21.45	20.74	18.59	HR10A-10TP-12P(73)
12	Plug with Pin Insert	HR1709-ND	21.75	21.03	18.85	HR10A-10WTP-12P(73)
12	Plug with Pin Insert	HR1710-ND*	22.95	22.19	19.89	HR10A-10WTP-12P(74)
20	Plug with Pin Insert, No Teflon Washer	HR1707-ND*	40.04	38.04	35.75	HR10A-13TPD-20P(74)
12	Plug with Socket Insert	HR1656-ND	22.05	21.32	19.11	HR10A-10TPA-12S(73)
12	Plug with Socket Insert	HR1713-ND	21.30	20.59	18.46	HR10A-10WTP-12S(73)
12	Plug with Socket Insert	HR1714-ND*	23.10	22.33	20.02	HR10A-10WTP-12S(74)
20	Plug with Socket Insert	HR1708-ND	50.12	47.62	44.75	HR10A-13TPD-20S(74)
12	Receptacle with Pin Insert, 0.8mm Diameter Solder Cups	HR1716-ND	17.40	16.82	15.08	HR10A-10WTR-12P(74)
6	Receptacle with Socket Insert	HR1581-ND	17.25	16.68	14.95	HR10-7TR-6S(73)
12	Receptacle with Socket Insert	HR1658-ND	13.98	12.94	10.84	HR10A-10TR-12S(73)
12	Receptacle with Socket Insert	HR1712-ND	16.49	15.52	13.58	HR10A-10WTR-12S(73)
12	Jack with Socket Insert	HR1655-ND	17.40	16.82	15.08	HR10A-10TJ-12S(73)
12	Jack with Pin Insert	HR1662-ND	19.20	18.56	16.64	HR10A-10TJ-12P(73)

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No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	Threaded Coupling, Crimp Type (contacts sold separately) — RoHS Compliant					
12	Plug for Pin Insert, Crimp Type	HR1659-ND	20.55	19.87	17.81	HR10A-10TP-12PC(73)
12	Recept. for Socket Insert, Crimp Type	HR1660-ND	13.34	12.34	10.34	HR10A-10TR-12SC(73)
	Threaded Coupling, PCB Type — RoHS Compliant					
—	Dust Cap for 4-6 Position Receptacle	HR345-ND	3.25	2.69	2.02	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.25	2.69	2.02	HR10-10R-C
—	Dust Cap for 20 Position Receptacle	HR381-ND	3.45	2.86	2.15	HR10A-13R-C
	Threaded Coupling, PCB Type — RoHS Compliant					
6	Receptacle with Socket Insert	HR1617-ND	16.32	15.36	13.44	HR10A-7TR-6SA(73)
12	Receptacle with Socket Insert	HR1654-ND	14.06	13.01	10.90	HR10A-10TR-12SB(73)
12	Receptacle with Socket Insert	HR1711-ND	16.49	15.52	13.58	HR10A-10WTR-12SB(73)
20	Receptacle with Socket Insert	HR1704-ND	22.65	21.90	19.63	HR10A-13TR-20SB(73)
12	Receptacle with Pin Insert	HR1661-ND	14.06	13.01	10.90	HR10A-10TR-12PB(73)
20	Receptacle with Pin Insert	HR1702-ND	22.65	21.90	19.63	HR10A-13TR-20PB(73)
	Crimp Pins and Sockets — RoHS Compliant					
—	Male Pin, Crimped, Gold	HR450-ND	—	.31	.18	HR10-PC-111
—	Female Socket, Crimped, Gold	HR452-ND	—	.33	.19	HR12-SC-111
—	Male Pin, Crimped, Silver	HR451-ND	—	.25	.15	HR10-PC-112
—	Female Socket, Crimped, Silver	HR453-ND	—	.52	.35	HR12-SC-112
	Tools					
—	Hand Contact Crimp Tool	HR497-ND	703.30/1			HR12-SC-TC
—	Hand Cable Crimp Tool	H9974-ND	363.09/1			HR10A-TC-02
—	Extraction Tool for Female Sockets	HR498-ND	14.22/1			HR12-SC-TP
—	Extraction Tool for Male Pins	HR499-ND	8.81/1			RP6-SC-TP

* Gold Plated

MXR Series

RoHS COMPLIANT

Miniature Push-Pull Connectors with Ground Function

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.

Features:

- The single action push-pull lock function allows quick connections and disconnections as well as high density mounting
- Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system
- Use of aluminum alloy for the shell has contributed to the lightweight design
- One of the three conductors makes contact before the others in this sequenced design.

Specifications:

- **Withstand Voltage:** 300VAC for 1 minute • **Current Capacity:** 2A • **Insulation Resistance:** 1000MΩ or greater at 100VDC • **Contact Resistance:** 20mΩ or less at 1A AC • **Solder Pot Diameter:** 0.9mm diameter **Applications:** VTR cameras, system cameras, audio equipment, etc.

Materials:

- **Shell:** Aluminum alloy, nickel plating • **Insulation:** PBT resin, black, UL94V-0 • **Male Pins:** Brass, gold plating
- **Female Pins:** Phosphor bronze, partial gold plating

Fig. 1 – Plug

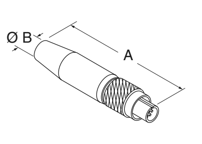

Fig. 2 – Solder Cup

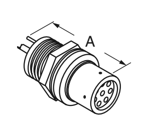

Fig. 3 – Solder Pin

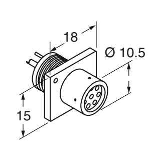

Fig.	No. of Pos.	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
		Plug								
1	4	Bushing, Black	47	5	HR1822-ND	16.49	15.52	14.07	13.58	MXR-8PA-4PB(71)
	6	Bushing, Black	47	5	HR1823-ND	15.00	14.50	13.50	13.00	MXR-8PA-6PB(71)
	8	Bushing, Black	50	8	HR1824-ND	15.00	14.50	13.50	13.00	MXR-8P-8P(71)
	8	Bushing, White	50	8	HR1825-ND	15.15	14.65	13.64	13.13	MXR-8P-8P(72)
		Receptacles								
2	4	Solder Cup	19.3	—	HR1827-ND	9.80	8.52	7.67	6.82	MXR-8RA-4S(71)
	6	Solder Cup	19.3	—	HR1828-ND	9.82	8.54	7.69	6.84	MXR-8RA-6S(71)
	8	Solder Cup	20.4	—	HR1829-ND	10.14	9.38	8.42	7.86	MXR-8RA-8S(71)
3	3	Solder Pin	—	—	HR1830-ND	8.74	7.60	6.84	6.08	MXR-8R-3SA(71)
	4	Solder Pin	—	—	HR1831-ND	9.06	7.88	7.10	6.31	MXR-8R-4SA(71)
	6	Solder Pin	—	—	HR1832-ND	9.59	8.34	7.51	6.68	MXR-8R-6SA(71)
		Tools								
Tool, Tightening Jig					H9988-ND	218.12/1				MXR-8P-T01
Tool, Cable Crimper					H9989-ND	333.83/1				HR10A-TC-04

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HR30 Series

Miniature Waterproof Plastic Connectors

Plug

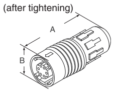

Receptacle

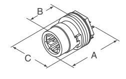

Jack

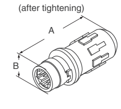

PCB Receptacle

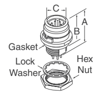

***NEW!* Overmold Plug**

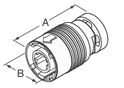

***NEW!* Overmold Jack**

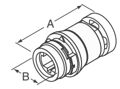

Features: • Miniature and compact design • Water-tight connection: Meets the IP67 standard, when in the mated position • Push-pull lock: Using Hirose's unique lock mechanism, the HR30 connector has a reliable "push-pull" lock that is easy to operate. Light-weight and corrosion resistant.
Applications: Test and measurement equipment, communication equipment, and other miniature electronic devices.
Specifications: • **Rated Current:** 5A (3 position); 2A (6, 10, 12 position) • **Operation Temperature Range:** -25ºC ~ 85ºC • **Rated Voltage:** 100VAC, 140VDC (3, 6 position); 30VAC, 42VDC (10, 12 position) • **Storage Temperature Range:** -25ºC ~ 85ºC • **Contact Resistance:** 5mΩ maximum (3 position); 15mΩ maximum (6, 10, 12 position) all measured at 1A DC • **Insulation Resistance:** 1000MΩ minimum measured at 100VDC • **Waterproof Performance:** No water penetration inside connector. While mated with a corresponding connector or protective cap, leave under water at a depth of 1m for a half hour.
Material: Plug: • Insulator: PPS and PBT: Black, UL94V-0; Polyacetal: Natural • Gasket: Silicone rubber/chloroprene rubber, red/black • Contacts: Brass, phosphor bronze, gold plating • Spring: Stainless steel
Receptacles: • Insulator: PPS, black, UL94V-0 • Gasket: Chloroprene rubber, black • Contacts: Brass, phosphor bronze, gold plating • Hexagonal nut: Zinc alloy, chromate • Washer: Phosphor bronze, nickel plating **Crimp Contacts:** • Contacts: Phosphor bronze, selective gold plating

Digi-Key Part No.	Cable Diameter	Dimension (mm) A	B	C
HR578-ND	4.2 ~ 5	29.8	12.6	—
HR581-ND	3.5 ~ 4.3	29.8	12.6	—
HR587-ND	—	16	8.3	12
HR579-ND	4.2 ~ 5	29.8	12.6	—
HR580-ND	4.2 ~ 5	30.3	12.6	—
HR582-ND	3.5 ~ 4.3	29.8	12.6	—
HR583-ND	3.5 ~ 4.3	30.3	12.6	—
HR588-ND	—	16	8.3	12
HR589-ND	—	18.4	8.3	12
HR593-ND	4.2 ~ 5	28.9	12	—
HR594-ND	3.5 ~ 4.3	28.9	12	—
HR1943-ND	—	14.9	8.3	8.9
HR1944-ND	—	15.2	8.3	8.9
HR1916-ND	6.2 ~ 7	39.8	15.5	—
HR1917-ND	6.2 ~ 7	39.8	15.5	—
HR1918-ND	—	18.6	9.3	15
HR1919-ND	—	18.6	9.3	15
HR1920-ND	6.2 ~ 7	37.3	15	—
HR1921-ND	6.2 ~ 7	37.3	15	—
HR1945-ND	—	16	9.3	11.5
HR1946-ND	—	16	9.3	11.5
HR584-ND	6.2 ~ 7	39.8	15.5	—

Digi-Key Part No.	Cable Diameter	Dimension (mm) A	B	C
HR585-ND	6.2 ~ 7	39.8	15.5	—
HR586-ND	6.2 ~ 7	39.8	15.5	—
HR590-ND	—	15.5	9.3	15
HR591-ND	—	15.5	9.3	15
HR592-ND	—	15.5	9.3	15
HR595-ND	6.2 ~ 7	38	15	—
HR596-ND	6.2 ~ 7	38	15	—
HR597-ND	6.2 ~ 7	38	15	—
HR1950-ND	5.2	21.7	12	—
HR1951-ND	5.2	22.7	12.6	—
HR1952-ND	5.2	23.2	12.6	—
HR1953-ND	5.2	22.7	12.6	—
HR1954-ND	6.4	23.7	15	—
HR1957-ND	6.4	25.9	15.5	—
HR1959-ND	6.4	25.9	15.5	—
HR1962-ND	6.4	23.7	15	—
HR1955-ND	6.4	23.7	15	—
HR1956-ND	6.4	25.9	15.5	—
HR1958-ND	6.4	25.9	15.5	—
HR1960-ND	6.4	23.7	15	—
HR1961-ND	6.4	23.7	15	—
HR1963-ND	6.4	25.9	15.5	—

Standard Version

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
	Solder Type						
3	Plug, Solder Female Contact	HR578-ND	11.29	9.82	8.84	7.86	HR30-6P-3S(71)
3	Plug, Solder, Fine Wire, Female Contact	HR581-ND	11.29	9.82	8.84	7.86	HR30-6PA-3S(71)
3	Receptacle, Solder, Male Contact	HR587-ND	8.71	7.37	6.20	5.53	HR30-6R-3P(71)
6	Plug, Solder Female Contact	HR579-ND	7.38	6.25	5.26	4.69	HR30-6P-6S(71)
6	Plug, Solder Male Contact	HR580-ND	8.53	7.22	6.07	5.42	HR30-6P-6P(71)
6	Plug, Solder, Fine Wire, Female Contact	HR582-ND	7.38	6.25	5.26	4.69	HR30-6PA-6S(71)
6	Plug, Solder, Fine Wire, Male Contact	HR583-ND	8.53	7.22	6.07	5.42	HR30-6PA-6P(71)
6	Receptacle, Solder, Male Contact	HR588-ND	6.76	5.72	4.81	4.29	HR30-6R-6P(71)
6	Receptacle, Solder, Female Contact	HR589-ND	7.80	6.60	5.55	4.95	HR30-6R-6S(71)
6	Jack, Solder, Male Contact	HR593-ND	7.90	6.69	5.63	5.02	HR30-6J-6P(71)
6	Jack, Solder, Fine Wire, Male Contact	HR594-ND	7.77	6.58	5.54	4.94	HR30-6JA-6P(71)
6	Receptacle, PCB, Male Contact	HR1943-ND	7.22	5.98	4.98	4.49	HR30-6R-6PD(71)
6	Receptacle, PCB, Female Contact	HR1944-ND	8.03	6.80	5.72	5.10	HR30-6R-6SD(71)
12	Plug, Solder Female Contact	HR1916-ND	9.78	8.50	7.65	6.80	HR30-7P-12S(71)
12	Plug, Solder Male Contact	HR1917-ND	9.29	8.08	7.28	6.47	HR30-8P-12P(71)
12	Receptacle, Solder Male Contact	HR1918-ND	8.26	7.18	6.47	5.75	HR30-7R-12P(71)
12	Receptacle, Solder Female Contact	HR1919-ND	8.83	7.68	6.92	6.15	HR30-8R-12S(71)
12	Jack, Solder Male Contact	HR1920-ND	9.41	8.18	7.37	6.55	HR30-7J-12P(71)
12	Jack, Solder Female Contact	HR1921-ND	9.34	8.12	7.31	6.50	HR30-8J-12S(71)
12	Receptacle, PCB, Male Contact	HR1945-ND	8.40	7.30	6.57	5.84	HR30-7R-12PD(71)
12	Receptacle, PCB, Female Contact	HR1946-ND	8.83	7.68	6.92	6.15	HR30-8R-12SD(71)
	Crimp Type (Contacts sold separately)						
10	Plug, Crimp, Female Contact	HR584-ND	6.68	5.66	4.76	4.25	HR30-7P-10SC(71)
10	Receptacle, Crimp, Male Contact	HR590-ND	5.60	4.64	3.86	3.48	HR30-7R-10PC(71)
10	Jack, Crimp, Male Contact	HR595-ND	7.05	5.84	4.86	4.38	HR30-7J-10PC(71)
12	Plug, Crimp, Female Contact	HR585-ND	6.68	5.66	4.76	4.25	HR30-7P-12SC(71)
12	Plug, Crimp, Male Contact	HR586-ND	6.68	5.66	4.76	4.25	HR30-8P-12PC(71)
12	Receptacle, Crimp, Male Contact	HR591-ND	5.60	4.64	3.86	3.48	HR30-7R-12PC(71)
12	Receptacle, Crimp, Female Contact	HR592-ND	5.60	4.64	3.86	3.48	HR30-8R-12SC(71)
12	Jack, Crimp, Male Contact	HR596-ND	7.05	5.84	4.86	4.38	HR30-7J-12PC(71)
12	Jack, Crimp, Female Contact	HR597-ND	7.05	5.84	4.86	4.38	HR30-8J-12SC(71)
—	Dust Cap for Plugs - Solder	HR598-ND	2.63	2.19	1.83	1.62	HR30-6P-C(71)
—	Dust Cap for Plugs - Crimp	HR599-ND	2.63	2.19	1.83	1.62	HR30-7P-C(71)
—	Dust Cap for Plugs - Crimp	HR600-ND	2.63	2.19	1.83	1.62	HR30-8P-C(71)

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
—	Dust Cap for Solder Type Receptacle	HR601-ND	2.63	2.19	1.83	1.62	HR30-6R-C(71)
—	Dust Cap for Crimp Type Receptacle	HR602-ND	2.63	2.19	1.83	1.62	HR30-7R-C(71)
	Tools						
—	Wiring Jig for Solder Plugs	H9950-ND	218.12/1				HR30-6P-6S-T01
—	Wiring Jig for Receptacle and Jack	H9951-ND	218.12/1				HR30-6R-6P-T01
—	Back Shell Tightening Collar	H9952-ND	138.32/1				HR30-6P-T02
—	Manual Crimping Tool	H9953-ND	1090.70/1				HT-102/HR30-1

NEW! Overmold Version

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
	Solder Type						
6	Jack, Male Pins	HR1950-ND	7.90	6.69	5.63	5.02	HR30-6JB-6P
3	Plug, Female Sockets	HR1951-ND	11.29	9.82	8.84	7.86	HR30-6PB-3S
6	Plug, Male Pins	HR1952-ND	8.53	7.22	6.07	5.42	HR30-6PB-6P
6	Plug, Female Sockets	HR1953-ND	7.38	6.25	5.26	4.69	HR30-6PB-6S
12	Jack, Male Pins	HR1954-ND	9.41	8.18	7.37	6.55	HR30-7JB-12P
12	Plug, Female Sockets	HR1957-ND	9.78	8.50	7.65	6.80	HR30-7PB-12S
12	Plug, Male Pins	HR1959-ND	9.29	8.08	7.28	6.47	HR30-8PB-12P
12	Jack, Female Sockets	HR1962-ND	9.34	8.12	7.31	6.50	HR30-8JB-12S
	Crimp Type (Contacts sold separately)						
12	Jack for Male Contacts	HR1955-ND	7.05	5.84	4.86	4.38	HR30-7JB-12PC
10	Plug for Female Contacts	HR1956-ND	6.68	5.66	4.76	4.25	HR30-7PB-10SC
12	Plug for Female Contacts	HR1958-ND	6.68	5.66	4.76	4.25	HR30-7PB-12SC
12	Jack for Female Contacts	HR1960-ND	7.05	5.84	4.86	4.38	HR30-8JB-12SC
10	Jack for Male Contacts	HR1961-ND	7.05	5.84	4.86	4.38	HR30-7JB-10PC
12	Plug for Male Contacts	HR1963-ND	6.68	5.66	4.76	4.25	HR30-8PB-12PC

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape* Pricing 10	50	100	Tape and Reel† Pricing 10,000	Hirose Part No.
			Contacts - Male - Phosphor Bronze with Selective Gold Plating					
26-30AWG	HR880-ND	21.15	HR30-PC-111	3.29	12.69	22.09	83.00/M	HR30-PC-211
			Contacts - Female - Phosphor Bronze with Selective Gold Plating					
26-30AWG	HR881-ND	21.62	HR30-SC-111	3.36	12.96	22.56	83.00/M	HR30-SC-211

* For Cut Tape, add CT to the Digi-Key Part No. (HR880CT-ND)
† For Tape and Reel add TR to the Digi-Key Part No. (HR880TR-ND)

KMC Series

9mm Bayonet Lock Connectors Water Resistant

Features: Five-key mechanism between two metal shells assures error-free polarization in coupling • Bayonet lock offers easier coupling with higher reliability than thread lock.
Electrical Specifications: • Insulation Resistance: minimum 2000MΩ at 100VDC • Contact Resistance: maximum 10mΩ at 1A DC • Current Rating: 2A

Dim. in mm

Receptacle

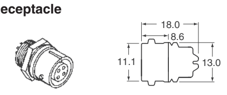

Plug

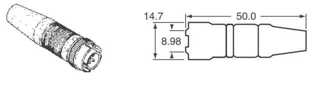

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Plug with Pin Insert	HR1810-ND	18.15	17.55	15.73	KMC9BPD-4P(71)
6	Plug with Pin Insert	HR1813-ND	22.95	22.19	19.89	KMC9BPD-6P(71)
4	Receptacle with Socket Insert	HR1936-ND	12.50	11.57	9.69	KMC9BRD-4S(75)
6	Receptacle with Socket Insert	HR1937-ND	14.42	13.57	11.88	KMC9BRD-6S(75)

RM Series

12mm Video Connectors *Does not have rubber boot*

Features: • Pipe shaped socket contact for long life reliable operation • UL94V-0 diallyl phthalate molding material for excellent electrical and mechanical characteristics • Sleek design with grainy matte finish • Bayonet type coupling for easy operation • Reversible pin and socket insert • 2, 3, 4, 5, 6, and 7 pin available in the common diecasting body • Jack available for cable extension program
Specifications: • Operating Voltage: AC600V (2 pin) AC500V (3 and 4 pin) AC350V (5, 6 and 7 pin) • Current rating: 5 amps • Insulation resistance: minimum 1,000MΩ at DC500V • Contact resistance: maximum 4mΩ • Solder cup diameter: 1.1mm (.043") • Temperature cycling: -55°C ~ 85°C • Contact durability: 2000 times at maximum 8mΩ

Fig. 1 – Plug

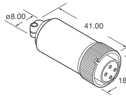

Fig. 2 – Receptacle

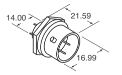

Fig. 3 – Receptacle (Square Flange)

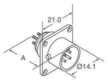

Fig. 4 – Jack

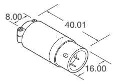

Fig. 5 – Plug Waterproof

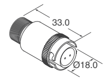

Fig. 6 – Receptacle Waterproof

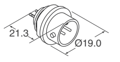

Fig. 7 – Cable Clamp

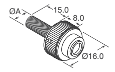

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
		RoHS Compliant							
1	2	Plug with Pin Insert	—	HR1729-ND	10.95	9.52	8.57	7.62	RM12BPE-2PH(71)
	3	Plug with Pin Insert	—	HR1730-ND	11.22	9.76	8.79	7.81	RM12BPE-3PH(71)
	4	Plug with Pin Insert	—	HR1731-ND	10.02	9.27	8.32	7.77	RM12BPE-4PH(71)
	5	Plug with Pin Insert	—	HR1732-ND	10.30	9.53	8.55	7.99	RM12BPE-5PH(71)
	6	Plug with Pin Insert	—	HR1733-ND	10.56	9.77	8.77	8.19	RM12BPE-6PH(71)

(Continued)

Circular Connectors

RM Series 12mm Video Connectors *Does not have rubber boot* *(Cont.)*

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	7	Plug with Pin Insert	—	HR1734-ND	10.84	10.03	9.00	8.41	RM12BPE-7PH(71)
	2	Plug with Socket Insert	—	HR1735-ND	10.56	9.77	8.77	8.19	RM12BPE-2S(71)
	3	Plug with Socket Insert	—	HR1736-ND	10.98	10.16	9.12	8.51	RM12BPE-3S(71)
	4	Plug with Socket Insert	—	HR1737-ND	11.38	10.53	9.45	8.82	RM12BPE-4S(71)
	5	Plug with Socket Insert	—	HR1738-ND	11.76	10.88	9.77	9.12	RM12BPE-5S(71)
	6	Plug with Socket Insert	—	HR1739-ND	12.18	11.27	10.11	9.44	RM12BPE-6S(71)
	7	Plug with Socket Insert	—	HR1740-ND	12.58	11.64	10.45	9.75	RM12BPE-7S(71)
2	2	Receptacle with Pin Insert	—	HR1761-ND	6.29	5.21	4.34	3.91	RM12BRD-2PH(71)
	3	Receptacle with Pin Insert	—	HR1762-ND	6.67	5.52	4.60	4.14	RM12BRD-3PH(71)
	4	Receptacle with Pin Insert	—	HR1763-ND	7.08	5.86	4.88	4.40	RM12BRD-4PH(71)
	5	Receptacle with Pin Insert	—	HR1764-ND	6.68	5.66	4.76	4.25	RM12BRD-5PH(71)
	6	Receptacle with Pin Insert	—	HR1765-ND	7.05	5.97	5.02	4.48	RM12BRD-6PH(71)
	7	Receptacle with Pin Insert	—	HR1766-ND	7.38	6.25	5.26	4.69	RM12BRD-7PH(71)
	2	Receptacle with Socket Insert	—	HR1744-ND	7.15	6.05	5.09	4.54	RM12BRD-2S(71)
	3	Receptacle with Socket Insert	—	HR1745-ND	7.54	6.38	5.37	4.79	RM12BRD-3S(71)
	4	Receptacle with Socket Insert	—	HR1746-ND	8.19	6.93	5.83	5.20	RM12BRD-4S(71)
	5	Receptacle with Socket Insert	—	HR1747-ND	8.71	7.37	6.20	5.53	RM12BRD-5S(71)
	6	Receptacle with Socket Insert	—	HR1748-ND	8.14	7.08	6.38	5.67	RM12BRD-6S(71)
	7	Receptacle with Socket Insert	—	HR1749-ND	8.53	7.42	6.68	5.94	RM12BRD-7S(71)
3	2	Receptacle with Pin Insert	20.5	HR1045-ND	4.67	3.87	3.22	2.90	RM12BRB-2PH
	3	Receptacle with Pin Insert	20.5	HR1046-ND	5.05	4.18	3.48	3.14	RM12BRB-3PH
	4	Receptacle with Pin Insert	20.5	HR1047-ND	5.45	4.52	3.76	3.39	RM12BRB-4PH
	5	Receptacle with Pin Insert	20.5	HR1048-ND	5.83	4.83	4.02	3.62	RM12BRB-5PH
	6	Receptacle with Pin Insert	20.5	HR1119-ND	6.24	5.16	4.30	3.87	RM12BRB-6PH
	2	Receptacle with Socket Insert	21.6	HR1114-ND	6.24	5.16	4.30	3.87	RM12BRB-2S
	3	Receptacle with Socket Insert	21.6	HR1115-ND	6.79	5.62	4.68	4.22	RM12BRB-3S
	5	Receptacle with Socket Insert	21.6	HR1116-ND	7.15	6.05	5.09	4.54	RM12BRB-5S
	6	Receptacle with Socket Insert	21.6	HR1038-ND	7.64	6.47	5.44	4.86	RM12BRB-6S
	7	Receptacle with Socket Insert	21.6	HR1117-ND	8.19	6.93	5.83	5.20	RM12BRB-7S
4	2	Jack with Pin Insert	—	HR321-ND	8.87	7.51	6.31	5.63	RM12BJB-2PH
	3	Jack with Pin Insert	—	HR323-ND	8.14	7.08	6.38	5.67	RM12BJB-3PH
	4	Jack with Pin Insert	—	HR325-ND	8.46	7.36	6.63	5.89	RM12BJB-4PH
	5	Jack with Pin Insert	—	HR327-ND	8.76	7.62	6.86	6.10	RM12BJB-5PH
	6	Jack with Pin Insert	—	HR329-ND	9.09	7.90	7.11	6.32	RM12BJB-6PH
	7	Jack with Pin Insert	—	HR331-ND	9.52	8.28	7.46	6.63	RM12BJB-7PH
	2	Jack with Socket Insert	—	HR320-ND	10.18	9.42	8.45	7.89	RM12BJB-2S(07)
	3	Jack with Socket Insert	—	HR322-ND	10.56	9.77	8.77	8.19	RM12BJB-3S(07)
	4	Jack with Socket Insert	—	HR324-ND	10.98	10.16	9.12	8.51	RM12BJB-4S(07)
	5	Jack with Socket Insert	—	HR326-ND	11.38	10.53	9.45	8.82	RM12BJB-5S(07)
	6	Jack with Socket Insert	—	HR328-ND	11.76	10.88	9.77	9.12	RM12BJB-6S(07)
	7	Jack with Socket Insert	—	HR330-ND	12.18	11.27	10.11	9.44	RM12BJB-7S(07)
		Waterproof Type							
6	5	Receptacle with Socket Insert	—	HR1071-ND	11.36	10.51	9.43	8.81	RM12WBR-5S
		Waterproof Type — RoHS Compliant							
5	2	Plug with Pin Insert	—	HR1795-ND	13.41	12.63	11.45	11.05	RM12WBP-2P(71)
	3	Plug with Pin Insert	—	HR1796-ND	13.65	12.85	11.65	11.25	RM12WBP-3P(71)
	4	Plug with Pin Insert	—	HR1797-ND	13.87	13.06	11.84	11.43	RM12WBP-4P(71)
	5	Plug with Pin Insert	—	HR1798-ND	14.11	13.28	12.04	11.62	RM12WBP-5P(71)
	6	Plug with Pin Insert	—	HR1799-ND	14.33	13.49	12.23	11.81	RM12WBP-6P(71)
	2	Plug with Socket Insert	—	HR1791-ND	14.33	13.49	12.23	11.81	RM12WBP-2S(71)
	3	Plug with Socket Insert	—	HR1792-ND	14.79	13.92	12.62	12.18	RM12WBP-3S(71)
	4	Plug with Socket Insert	—	HR1793-ND	15.23	14.34	13.00	12.55	RM12WBP-4S(71)
	5	Plug with Socket Insert	—	HR1794-ND	15.81	14.88	13.49	13.02	RM12WBP-5S(71)
	6	Plug with Socket Insert	—	HR1839-ND	16.15	15.20	13.78	13.30	RM12WBP-6S(71)
6	2	Receptacle with Pin Insert	—	HR1781-ND	10.72	9.32	8.39	7.46	RM12WBR-2P(71)
	3	Receptacle with Pin Insert	—	HR1782-ND	11.02	9.58	8.63	7.67	RM12WBR-3P(71)
	4	Receptacle with Pin Insert	—	HR1783-ND	11.32	9.84	8.86	7.88	RM12WBR-4P(71)
	5	Receptacle with Pin Insert	—	HR1784-ND	10.10	9.35	8.39	7.83	RM12WBR-5P(71)
	6	Receptacle with Pin Insert	—	HR1785-ND	10.40	9.62	8.64	8.06	RM12WBR-6P(71)
	2	Receptacle with Socket Insert	—	HR1786-ND	10.38	9.61	8.62	8.05	RM12WBR-2S(71)
	3	Receptacle with Socket Insert	—	HR1787-ND	10.92	10.11	9.07	8.47	RM12WBR-3S(71)
	4	Receptacle with Socket Insert	—	HR1788-ND	11.46	10.61	9.52	8.89	RM12WBR-4S(71)
	5	Receptacle with Socket Insert	—	HR1789-ND	12.00	11.10	9.96	9.30	RM12WBR-5S(71)
	6	Receptacle with Socket Insert	—	HR1790-ND	12.54	11.60	10.41	9.72	RM12WBR-6S(71)
7		Cable Clamp, 4mm Diameter	5.5	HR1800-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(4)(71)
		Cable Clamp, 5mm Diameter	5.5	HR1801-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(5)(71)
		Cable Clamp, 6mm Diameter	7.5	HR1802-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(6)(71)
		Cable Clamp, 7mm Diameter	7.5	HR1803-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(7)(71)
—		Receptacle Cover for RM12 Series	—	HR1840-ND	13.91	13.09	11.87	11.46	RM12WBR-C(71)

RM Series 15mm Video Connectors

Specifications: • Operating Voltage: 350VAC, 490VDC • Current Rating: 5A • Insulation Resistance: 1000MΩ minimum at 500VDC • Contact Resistance: 14mΩ maximum at 1A DC • Operating Temperature : -25°C ~ 85°C • Applicable Cable Diameter: 8mm maximum

Fig. 1 – Threaded Plug

Includes rubber boot

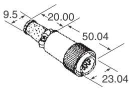

Fig. 2 – Threaded Plug

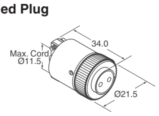

Fig. 3 – Receptacle

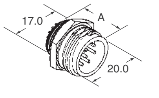

Fig. 4 – Jack

Includes rubber boot

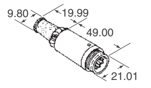

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	10	Plug with Pin Insert	—	HR1756-ND†‡	14.50	13.42	11.24	RM15TPD-10PC(71)
	10	Plug with Pin Insert	—	HR1741-ND‡	14.82	13.96	12.21	RM15TPD-10P(71)
	12	Plug with Pin Insert	—	HR1750-ND‡	15.42	14.52	12.70	RM15TPD-12P(71)
	10	Plug with Socket Insert	—	HR1757-ND‡	13.16	12.39	10.84	RM15TPD-10S(71)
	12	Plug with Socket Insert	—	HR1751-ND‡	17.55	16.97	15.21	RM15TPD-12S(71)

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
2	2	Plug with Pin Insert	—	HR1779-NDΔ	11.46	10.61	8.89	RM15TP-2PA(71)
	4	Plug with Pin Insert	—	HR1780-NDΔ	12.00	11.10	9.30	RM15TP-4PA(71)
	8	Plug with Pin Insert	—	HR1771-NDΔ	12.66	11.72	9.82	RM15TP-8PH(71)
	10	Plug with Pin Insert	—	HR1772-NDΔ	14.88	14.00	12.25	RM15TP-10PH(71)
	2	Plug with Socket Insert	—	HR1767-NDΔ	13.10	12.12	10.16	RM15TP-2SA(71)
	4	Plug with Socket Insert	—	HR1768-NDΔ	13.24	12.47	10.91	RM15TP-4SA(71)
	10	Plug with Socket Insert	—	HR1726-NDΔ	16.25	15.30	13.39	RM15TP-10S(71)
3	2	Receptacle with Pin Insert	21.00	HR1777-NDΔ	8.83	7.68	6.15	RM15TRH-2PA(71)
	4	Receptacle with Pin Insert	21.00	HR1778-NDΔ	9.15	7.96	6.37	RM15TRH-4PA(71)
	8	Receptacle with Pin Insert	20.60	HR1773-NDΔ	10.10	8.78	7.03	RM15TRH-8PH(71)
	10	Receptacle with Pin Insert	20.60	HR1774-NDΔ	10.76	9.36	7.49	RM15TRH-10PH(71)
	10	Receptacle with Pin Insert	21.29	HR1758-ND‡	8.21	7.14	5.72	RM15TRD-10P(71)
	12	Receptacle with Pin Insert	21.29	HR1752-ND‡	9.04	7.86	6.29	RM15TRD-12P(71)
	2	Receptacle with Socket Insert	21.70	HR1769-NDΔ	10.72	9.32	7.46	RM15TRH-2SA(71)
	4	Receptacle with Socket Insert	21.70	HR1770-NDΔ	11.80	10.92	9.15	RM15TRH-4SA(71)
	8	Receptacle with Socket Insert	21.60	HR1775-NDΔ	13.76	12.73	10.67	RM15TRH-8S(71)
	10	Receptacle with Socket Insert	21.60	HR1776-NDΔ	12.95	12.20	10.67	RM15TRH-10S(71)
	10	Receptacle with Socket Insert	21.29	HR1742-ND‡	11.48	9.98	7.99	RM15TRD-10S(71)
	10	Receptacle with Socket Insert	32.30	HR1760-ND‡	8.49	7.38	5.91	RM15TRD-10SB(71)
	10	Receptacle with Socket Insert	19.50	HR1755-ND†‡	11.08	10.25	8.59	RM15TRD-10SC(71)
	12	Receptacle with Socket Insert	21.29	HR1753-ND‡	12.88	11.92	9.99	RM15TRD-12S(71)
4	10	Jack Extension with Pin Insert	—	HR1759-ND‡	13.50	12.71	11.12	RM15TJD-10P(71)
	10	Jack Extension w/Socket Insert	—	HR1743-ND‡	14.16	13.33	11.67	RM15TJD-10S(71)
	12	Jack Extension w/Socket Insert	—	HR1754-ND‡	14.50	13.65	11.95	RM15TJD-12S(71)

† Crimp Type ‡ TM20x2 Threads Δ M19x1 Threads

Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
Waterproof Type						
Dust Cap for Plug with Chain	HR1727-NDΔ	14.70	13.60	—	11.40	RM15TP-C(71)
Dust Cap for Recept. with Chain	HR1728-NDΔ	8.56	7.44	—	5.96	RM15TR-C(71)
Contacts						
Crimp Cont. Male, AWG 20-24	HR1118-ND	—	.47	.36	.32	RM-PC-112
Crimp Cont. Male, AWG 24-28	HR1040-ND	—	.47	.36	.32	RM-PC-122
Crimp Cont. Female, AWG 20-24	HR1039-ND	—	.47	.36	.32	RM-SC-112
Crimp Cont. Female, AWG 24-28	HR1041-ND	—	.47	.36	.32	RM-SC-122
Tools						
Man. Crimping Tool, AWG 20-24	HR1111-ND	363.09/1				RM-TC-11
Man. Crimping Tool, AWG 24-28	HR1112-ND	363.09/1				RM-TC-12
Extraction Tool	HR1113-ND	10.92/1				RM-TP

Δ M19x1 Threads

JR Series

Video Connectors Aluminum

Features: JR series connectors offer you excellent performances both electrically and mechanically, having five keys in the fitting section to assure smooth coupling. **Specifications:** • Withstand Voltage: 1000VAC a minute • Insulation Resistance: 1000MΩ minimum • Contact Resistance: 5mΩ maximum

Plug

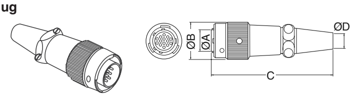

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D
7	HR1295-ND, HR1298-ND	16.31	26.97	78.49	11.00
10	HR1294-ND, HR1297-ND	16.31	26.97	78.49	11.00
14	HR1293-ND, HR1296-ND	16.31	26.97	78.49	11.00
26	HR1306-ND, HR1305-ND	20.50	30.99	97.99	12.19

Receptacle

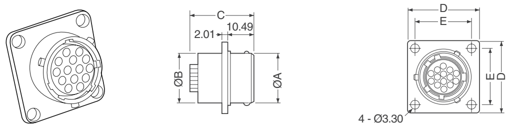

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D	E
7	HR1301-ND	22.00	19.99	26.49	29.01	23.01
	HR1304-ND	22.00	19.99	27.69	29.01	23.01
10	HR1300-ND, HR1303-ND	22.00	19.99	26.49	29.01	23.01
14	HR1299-ND	22.00	19.99	26.59	29.01	23.01
	HR1302-ND	22.00	19.99	25.78	29.01	23.01
26	HR1307-ND	25.81	23.90	26.80	31.98	26.01
	HR153-ND	25.81	23.90	27.99	31.98	26.01

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
7	Plug with Pin Insert	HR1295-ND	18.30	17.69	15.86	JRC16BP-7P(71)
10	Plug with Pin Insert	HR1294-ND	18.60	17.98	16.12	JRC16BP-10P(71)
14	Plug with Pin Insert	HR1293-ND	23.40	22.62	20.28	JRC16BP-14P(71)
26	Plug with Pin Insert	HR1306-ND	28.80	27.84	24.96	JRC21BPA-26P(71)
7	Plug with Socket Insert	HR1298-ND	18.00	17.40	15.60	JRC16BP-7S(71)
10	Plug with Socket Insert	HR1297-ND	19.20	18.56	16.64	JRC16BP-10S(71)
14	Plug with Socket Insert	HR1296-ND	25.20	24.36	21.84	JRC16BP-14S(71)
26	Plug with Socket Insert	HR1305-ND	28.95	27.99	25.09	JRC21BP-26S(71)
7	Receptacle with Pin Insert	HR1301-ND	12.46	11.53	9.66	JRC16BR-7P(71)
10	Receptacle with Pin Insert	HR1300-ND	13.14	12.16	10.19	JRC16BR-10P(71)
14	Receptacle with Pin Insert	HR1299-ND	11.41	9.92	7.94	JRC16BR-14P(71)
26	Receptacle with Pin Insert	HR1307-ND	14.48	13.40	11.23	JRC21BR-26P 71)
7	Receptacle with Socket Insert	HR1304-ND	12.30	11.38	9.54	JRC16BR-7S(71)
10	Receptacle with Socket Insert	HR1303-ND	12.96	11.99	10.05	JRC16BR-10S(71)
14	Receptacle with Socket Insert	HR1302-ND	12.42	11.49	9.63	JRC16BR-14S(71)
26	Receptacle with Socket Insert	HR153-ND	13.76	12.73	10.67	JRC21BRA-26S

(Continued)

JR Series

High-Performance Waterproof Circular Connectors

Features: • Waterproof to a depth of 1.8m for 48 hours. (IP67 or more) • Outer metal is plated with black chromium to prevent corrosion • Provided with five guides to make connection very smooth • Variable in shell sizes and core numbers. **Applications:** Machine tools, FA-related equipment, communications equipment, various electronic equipment and devices

Fig. 1

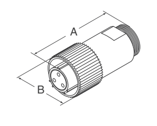

Fig. 2

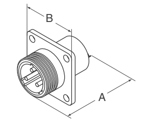

Fig. 3

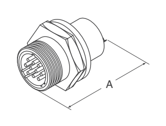

Fig. 4

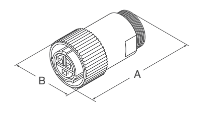

Fig. 5

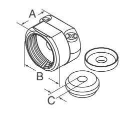

Fig. 6

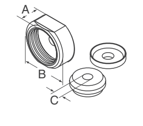

No. of Pos.	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
					Fig. 1 — Plugs - Male Solder Type				
3	13	44.7	21.8	—	HR1308-ND	16.32	15.36	13.44	JR13WP-3P(71)
5	13	44.7	21.8	—	HR1309-ND	16.49	15.52	13.58	JR13WP-5P(71)
7	16	46.5	21.8	—	HR1310-ND	16.65	16.10	14.43	JR16WP-7P(71)
10	16	46.5	25.8	—	HR1311-ND	16.95	16.39	14.69	JR16WP-10P(71)
10	21	51	29.8	—	HR1312-ND	18.60	17.98	16.12	JR21WP-10P(71)
16	21	51	29.8	—	HR1313-ND	19.20	18.56	16.64	JR21WP-16P(71)
4	25	56	33.8	—	HR1314-ND	27.90	26.97	24.18	JR25WP-4P(71)
8	25	56	33.8	—	HR1316-ND	27.00	26.10	23.40	JR25WP-8P(71)
16	25	56	33.8	—	HR1317-ND	23.70	22.91	20.54	JR25WP-16P(71)
24	25	56	33.8	—	HR1318-ND	24.45	23.64	21.19	JR25WP-24P(71)
					Fig. 1 — Plugs - Female Solder Type				
3	13	44.7	21.8	—	HR1319-ND	15.00	14.50	13.00	JR13WP-3S(71)
5	13	44.7	21.8	—	HR1320-ND	15.30	14.79	13.26	JR13WP-5S(71)
7	16	46.5	25.8	—	HR1321-ND	17.10	16.53	14.82	JR16WP-7S(71)
10	16	46.5	25.8	—	HR1322-ND	16.95	16.39	14.69	JR16WP-10S(71)
10	21	51	29.8	—	HR1323-ND	19.20	18.56	16.64	JR21WP-10S(71)
16	21	51	29.8	—	HR1324-ND	19.80	19.14	17.16	JR21WP-16S(71)
4	25	56	33.8	—	HR1325-ND	30.45	29.44	26.39	JR25WP-4S(71)
5	25	56	33.8	—	HR1326-ND	25.80	24.94	22.36	JR25WP-5S(71)
8	25	56	33.8	—	HR1327-ND	26.25	25.38	22.75	JR25WP-8S(71)
16	25	56	33.8	—	HR1328-ND	24.45	23.64	21.19	JR25WP-16S(71)
24	25	56	33.8	—	HR1329-ND	25.35	24.51	21.97	JR25WP-24S(71)
					Fig. 2 — Receptacles - Male Solder Type				
3	13	26.6	26	—	HR1330-ND	8.44	7.34	5.88	JR13WR-3P(71)
5	13	26.1	26	—	HR1331-ND	8.74	7.60	6.08	JR13WR-5P(71)
7	16	26.6	29	—	HR1332-ND	9.43	8.20	6.56	JR16WR-7P(71)
10	16	26.1	29	—	HR1333-ND	9.89	8.60	6.88	JR16WR-10P(71)
10	21	26.6	32	—	HR1334-ND	10.06	9.31	7.80	JR21WR-10P(71)
16	21	26.1	32	—	HR1335-ND	10.90	10.09	8.45	JR21WR-16P(71)
4	25	28	35	—	HR1336-ND	15.13	14.24	12.46	JR25WR-4P(71)
8	25	26.6	35	—	HR1338-ND	14.31	13.48	11.79	JR25WR-8P(71)
16	25	26.6	35	—	HR1339-ND	12.24	11.33	9.49	JR25WR-16P(71)
24	25	26.1	35	—	HR1340-ND	13.30	12.31	10.31	JR25WR-24P(71)
					Fig. 2 — Receptacles - Female Solder Type				
3	13	28	26	—	HR1341-ND	9.41	8.18	6.55	JR13WR-3S(71)
5	13	27	26	—	HR1342-ND	9.73	8.46	6.77	JR13WR-5S(71)
7	16	28	29	—	HR1343-ND	10.12	8.80	7.04	JR16WR-7S(71)
10	16	27	29	—	HR1344-ND	10.60	9.22	7.38	JR16WR-10S(71)
10	21	28	32	—	HR1345-ND	10.92	10.11	8.47	JR21WR-10S(71)
16	21	27	32	—	HR1346-ND	11.82	10.94	9.17	JR21WR-16S(71)
4	25	28	35	—	HR1347-ND	15.90	15.37	13.78	JR25WR-4S(71)
8	25	27.8	35	—	HR1349-ND	13.43	12.64	11.06	JR25WR-8S(71)
16	25	28	35	—	HR1350-ND	13.38	12.38	10.37	JR25WR-16S(71)
24	25	27	35	—	HR1351-ND	14.56	13.47	11.29	JR25WR-24S(71)
					Fig. 2 — Receptacles - Male Crimp Type (contacts sold separately)				
3	16	27.6	29	—	HR1423-ND§	9.50	8.26	6.61	JR16WR-3PC(71)
10	16	25.1	29	—	HR1410-ND‡	9.50	8.26	6.61	JR16WR-10PC(71)
24	25	25.1	35	—	HR1412-ND‡	11.48	10.62	8.90	JR25WR-24PC(71)
					Fig. 3 — Receptacles - Male Solder Type				
7	16	26.6	—	—	HR1417-ND	12.32	11.40	9.55	JR16WRA-7P(71)
10	16	26.1	—	—	HR1400-ND	12.72	11.77	9.86	JR16WRA-10P(71)
					Fig. 3 — Receptacles - Female Solder Type				
10	16	27	—	—	HR1419-ND	13.34	12.34	10.34	JR16WRA-10S(71)
					Fig. 4 — Plugs - Male Crimp Type (contacts sold separately)				
10	16	46.5	25.8	—	HR1402-ND‡	16.65	16.10	14.43	JR16WP-10PC(71)
10	21	51	29.8	—	HR1403-ND§	18.75	18.13	16.25	JR21WP-10PC(71)
					Fig. 4 — Plugs - Female Crimp Type (contacts sold separately)				
3	16	46.5	25.8	—	HR1422-ND§	16.65	16.10	14.43	JR16WP-3SC(71)
10	16	46.5	25.8	—	HR1406-ND‡	16.65	16.10	14.43	JR16WP-10SC(71)
24	25	56	33.8	—	HR1409-ND‡	23.10	22.33	20.02	JR25WP-24SC(71)

No. of Pos.	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
					Fig. 5 — Cord Clamp				
—	13	17	20	4	HR1352-ND	11.20	9.74	7.80	JR13WCC-4(71)
—	13	17	20	5	HR1353-ND	11.20	9.74	7.80	JR13WCC-5(71)
—	13	17	20	6	HR1354-ND	11.20	9.74	7.80	JR13WCC-6(71)
—	13	17	20	7	HR1355-ND	11.20	9.74	7.80	JR13WCC-7(71)
—	13	17	20	8	HR1356-ND	11.20	9.74	7.80	JR13WCC-8(71)
—	13	17	20	9	HR1357-ND	11.20	9.74	7.80	JR13WCC-9(71)
—	13	17	20	10	HR1358-ND	11.20	9.74	7.80	JR13WCC-10(71)
—	16	17.5	23	4	HR1359-ND	10.64	9.85	8.25	JR16WCC-4(71)
—	16	17.5	23	6	HR1360-ND	10.64	9.85	8.25	JR16WCC-6(71)
—	16	17.5	23	8	HR1361-ND	10.64	9.85	8.25	JR16WCC-8(71)
—	16	17.5	23	10	HR1362-ND	10.64	9.85	8.25	JR16WCC-10(71)
—	16	17.5	23	12	HR1363-ND	10.64	9.85	8.25	JR16WCC-12(71)
—	21	17.5	27	6	HR1364-ND	14.16	13.33	11.67	JR21WCC-6(71)
—	21	17.5	27	8	HR1365-ND	13.43	12.64	11.06	JR21WCC-8(71)
—	21	17.5	27	10	HR1366-ND	13.43	12.64	11.06	JR21WCC-10(71)
—	21	17.5	27	12	HR1367-ND	13.43	12.64	11.06	JR21WCC-12(71)
—	21	17.5	27	16	HR1369-ND	13.43	12.64	11.06	JR21WCC-16(71)
—	25	18	31	8	HR1370-ND	14.55	13.70	11.99	JR25WCC-8(71)
—	25	18	31	10	HR1371-ND	13.53	12.74	11.15	JR25WCC-10(71)
—	25	18	31	12	HR1372-ND	14.52	13.67	11.96	JR25WCC-12(71)
—	25	18	31	14	HR1373-ND	14.45	13.60	11.90	JR25WCC-14(71)
—	25	18	31	16	HR1374-ND	14.40	13.56	11.86	JR25WCC-16(71)
					Fig. 6 — Simple Cord Clamp				
—	13	7.5	19	4	HR996-ND	6.26	5.19	3.89	JR13WCCA-4
—	13	7.5	19	5	HR1376-ND	6.93	5.74	4.31	JR13WCCA-5(71)
—	13	7.5	19	6	HR1377-ND	6.93	5.74	4.31	JR13WCCA-6(71)
—	13	7.5	19	10	HR1381-ND	6.93	5.74	4.31	JR13WCCA-10(71)
—	16	8	23	4	HR1382-ND	7.36	6.23	4.67	JR16WCCA-4(71)
—	16	8	23	6	HR1383-ND	7.36	6.23	4.67	JR16WCCA-6(71)
—	16	8	23	8	HR1384-ND	7.36	6.23	4.67	JR16WCCA-8(71)
—	16	8	23	10	HR1385-ND	7.36	6.23	4.67	JR16WCCA-10(71)
—	16	8	23	12	HR1386-ND	7.36	6.23	4.67	JR16WCCA-12(71)
—	21	8	27	8	HR1388-ND	9.71	8.44	6.76	JR21WCCA-8(71)
—	21	8	27	10	HR1389-ND	9.71	8.44	6.76	JR21WCCA-10(71)
—	25	8.5	31	8	HR1393-ND	9.34	8.12	6.50	JR25WCCA-8(71)
—	25	8.5	31	10	HR1394-ND	9.34	8.12	6.50	JR25WCCA-10(71)
—	25	8.5	31	16	HR1397-ND	9.34	8.12	6.50	JR25WCCA-16(71)
					Tools				
Manual Crimping Tool AWG 16					H9920-ND		709.80/1		JRC-TC-11
Manual Crimping Tool AWG 18-20					H9921-ND		709.80/1		JRC-TC-12
Extraction Tool					H9922-ND		6.71/1		JRC-TP

§ Uses 16-20 AWG Contact ‡ Uses 20-24 AWG or 24-28 AWG Contact

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape† Pricing 100	500	1,000	Hirose Part No.
			Contacts - Male - Crimp Type, Silver Plating				
16-20AWG	HR1032-ND	33.98	JRC-PC-112	—	—	—	—
20-24AWG	HR1028-ND	27.73	JRC-PC2-112	—	—	—	—
24-28AWG	HR1029-ND	28.20	JRC-PC2-122	—	—	—	—
			Contacts - Female - Crimp Type, Silver Plating				
16-20AWG	HR1033-ND	34.65	JRC-SC-112	16.13	58.05	90.30	JRC-SC-212
20-24AWG	HR1030-ND	28.20	JRC-SC2-112	29.14	105.40	167.40	JRC-SC2-212

† For Cut Tape part number add CT to the Digi-Key Part No.

LF Series

Miniature Waterproof Shielded Connectors

Features:

- Shield cable is clamped by ground metal and easily connected with shell • Mating waterproof structure (IP67 compliant) • Simplified assembly procedure without the use of small screws • Small and robust bayonet lock connector • 3-position type connector is compliant with international safety standard of 5A

Applications:

- Measuring instrument, machine tool, sensor, security camera, base transmission station, medical equipment, and others

Characteristics: • **Current Rating (Amps):** 2, 5 • **Shell Size:** 7 (10.3mm), 10 (12.8mm) • **Contact Mating Area Plating:** Gold • **Operating Temperature Range:** -25°C ~ 125°C • **Termination Style:** Soldering

Jack

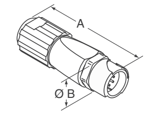

Plug

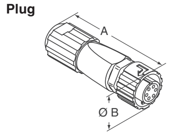

Receptacle

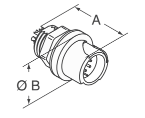

No. of Pos.	Description	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
				LF07 Series				
3	Jack, Male Contact	36.3	11.5	HR537-ND	14.00	12.95	11.62	LF07WBJ-3P
3	Jack, Female Contact	36.3	11.5	HR549-ND	14.00	12.95	11.62	LF07WBJ-3S
6	Jack, Male Contact	36.3	11.5	HR539-ND	13.86	12.83	11.51	LF07WBJ-6P
6	Jack, Female Contact	36.3	11.5	HR540-ND	14.16	13.10	11.76	LF07WBJ-6S
3	Plug, Male Contact	35.3	12.3	HR541-ND	13.29	12.52	11.34	LF07WBP-3P
3	Plug, Female Contact	35.3	12.3	HR542-ND	13.29	12.52	11.34	LF07WBP-3S
6	Plug, Male Contact	35.3	12.3	HR543-ND	12.90	12.15	11.01	LF07WBP-6P
6	Plug, Female Contact	35.3	12.3	HR544-ND	13.18	12.40	11.24	LF07WBP-6S
3	Receptacle, Male Contact	15.15	13	HR545-ND	8.21	7.14	6.43	LF07WBR-3P
3	Receptacle, Female Contact	15.15	13	HR546-ND	8.21	7.14	6.43	LF07WBR-3S
6	Receptacle, Male Contact	15.05	13	HR547-ND	8.05	7.00	6.30	LF07WBR-6P
6	Receptacle, Female Contact	15.25	13	HR548-ND	8.40	7.30	6.57	LF07WBR-6S

(Continued)

Circular Connectors

HIROSE ELECTRIC CO., LTD.

LF Series Miniature Waterproof Shielded Connectors *(Cont.)*

No. of Pos.	Description	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
	Tools							
	Jig Assembly for LF07 Plug			HR550-ND	21.30/1			LF07BP-T01
	Jig Assembly for LF07 Jack			HR551-ND	64.26/1			LF07BJ-T01
	LF10 Series							
4	Plug, Male Contact	41.8	14.8	HR552-ND	14.71	13.84	12.55	LF10WBP-4P
4	Plug, Female Contact	41.8	14.8	HR553-ND	14.72	13.86	12.56	LF10WBP-4S
12	Plug, Male Contact	41.8	14.8	HR554-ND	16.15	15.20	13.78	LF10WBP-12P
12	Plug, Female Contact	41.8	14.8	HR555-ND	16.66	15.68	14.21	LF10WBP-12S
4	Receptacle, Male Contact	19.05	15.3	HR556-ND	9.48	8.24	7.42	LF10WBR-4P
4	Receptacle, Female Contact	19.05	15.3	HR557-ND	9.48	8.24	7.42	LF10WBR-4S
12	Receptacle, Male Contact	17.25	15.3	HR558-ND	10.18	9.42	8.45	LF10WBR-12P
12	Receptacle, Female Contact	17.25	15.3	HR559-ND	10.80	9.99	8.97	LF10WBR-12S
12	Receptacle, Male Contact	12.8	17.25	HR1947-ND	13.34	12.34	11.08	LF10WBRB-12P
12	Receptacle, Female Contact	12.8	17.25	HR1948-ND	14.94	13.82	12.41	LF10WBRB-12S
4	Receptacle, Male Contact	12.8	19.05	HR1949-ND	10.99	9.56	8.61	LF10WBRB-4P
4	Jack, Male Contact	42.4	13.8	HR560-ND	13.29	12.52	11.34	LF10WBJ-4P
4	Jack, Female Contact	42.4	13.8	HR561-ND	13.33	12.55	11.37	LF10WBJ-4S
12	Jack, Male Contact	42.4	13.8	HR562-ND	14.71	13.84	12.55	LF10WBJ-12P
12	Jack, Female Contact	42.4	13.8	HR563-ND	15.30	14.40	13.05	LF10WBJ-12S
	Tools							
	Hand Cable Clamp Crimp			H9910-ND	610.47	585.23	562.28	LF-TC-01
	Jig Assembly for LF10 Plug			H9911-ND	21.30	20.59	19.17	LF10BP-T01
	Jig Assembly for LF10 Jack			H9912-ND	64.26	61.05	58.53	LF10BJ-T01
	LF13 Series							
11	Jack, Male Contact	57.1	16.9	HR1922-ND	17.25	16.68	15.53	LF13WBJ-11P
11	Jack, Female Contact	57.1	16.9	HR1923-ND	17.40	16.82	15.66	LF13WBJ-11S
20	Jack, Male Contact	57.1	16.9	HR1924-ND	16.95	16.39	15.26	LF13WBJ-20P
20	Jack, Female Contact	57.1	16.9	HR1925-ND	18.00	17.40	16.20	LF13WBJ-20S
11	Plug, Male Contact	56.6	17.9	HR1926-ND	19.50	18.85	17.55	LF13WBP-11P
11	Plug, Female Contact	56.6	17.9	HR1927-ND	19.65	19.00	17.69	LF13WBP-11S
20	Plug, Male Contact	56.6	17.9	HR1928-ND	19.05	18.42	17.15	LF13WBP-20P
20	Plug, Female Contact	56.6	17.9	HR1929-ND	19.80	19.14	17.82	LF13WBP-20S
11	Receptacle, Male Contact	19.05	18.3	HR1930-ND	14.50	13.42	12.04	LF13WBR-11P
11	Receptacle, Female Contact	19.05	18.3	HR1931-ND	14.84	13.73	12.32	LF13WBR-11S
20	Receptacle, Male Contact	17.25	18.3	HR1932-ND	14.00	12.95	11.62	LF13WBR-20P
20	Receptacle, Female Contact	17.25	18.3	HR1933-ND	12.89	12.13	11.00	LF13WBR-20S
	Tools							
	Jig Assembly for LF13 Plug			HR1934-ND	19.50/1			LF13BP-T01
	Jig Assembly for LF13 Jack			HR1935-ND	64.26/1			LF13BJ-T01

SR30 Series

10mm Miniature Microphone Connectors

Features: Standard applicable cable size is the outer diameter of 4.29mm

Material: Male pin: brass + gold plated or silver plated; Female pin: copper alloy + gold plated or silver plated

Specifications: • Rated Voltage: 100VAC, 140VDC • Current Rating: 1A • Insulation Resistance: 200MΩ minimum at 100VDC • Contact Resistance: 10mΩ maximum at 1A DC

Dim. in mm

Plug

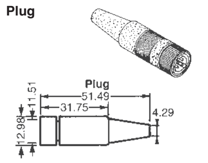

Receptacle

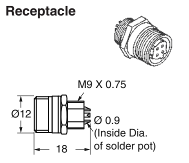

Jack

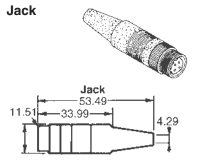

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
7	Receptacle with Socket Insert	HR505-ND	13.41	12.63	11.05	SR30-10R-7S
	RoHS Compliant					
4	Plug with Pin Insert	HR1721-ND	10.08	9.33	7.82	SR30-10PE-4P(71)
6	Plug with Pin Insert	HR1718-ND	11.54	10.68	8.95	SR30-10PE-6P(74)
7	Plug with Pin Insert	HR1723-ND	11.40	10.55	8.84	SR30-10PF-7P(71)
4	Receptacle with Socket Insert	HR1720-ND	9.06	7.88	6.31	SR30-10R-4S(71)
6	Receptacle with Socket Insert	HR1717-ND	10.12	9.37	7.85	SR30-10R-6S(71)
7	Receptacle with Socket Insert	HR1724-ND	13.36	12.36	10.36	SR30-10R-7S(71)
4	Jack with Socket Insert	HR1722-ND	14.68	13.58	11.38	SR30-10JE-4S(71)
6	Jack with Socket Insert	HR1719-ND	13.72	12.70	10.64	SR30-10JE-6S(72)
—	Cable Clamp for SR30-10JE Jacks	HR509-ND §	.70	.49	.33	SR30-P
7	Jack with Socket Insert	HR1725-ND	13.94	12.90	10.81	SR30-10JF-7S(71)

§ Clamp for use with SR30-10JE series only

SR38 Series

Microminiature High-Performance

Dim. in mm

Features: Microminiature and high density allows space-saving packaging with the ø5.3 mm standard diameter (excluding protrusions) body. Highly reliable against external force such as vibration due to the simple locking mechanism guards. Easy to wire and mount plugs: fold-up type, requiring no special tool. Receptacles: circuit board dip type

Applications: Video equipment, acoustic equipment, measuring instruments, and other electronic equipment

Plug

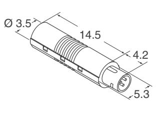

Receptacle

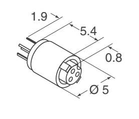

No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
3	Plug	HR1834-ND	13.90	12.86	11.54	SR38-4P-3P(71)
3	Receptacle	HR1835-ND	11.96	11.07	9.93	SR38-4R-3S(71)

HR22 Series

High-Performance Compact Circular

Dim. in mm

The HR22 Series are 20-pin compact circular connectors developed as an interface between machine tool motors and operation panels. With a screw coupling type locking mechanism to prevent unlocking due to motor vibration.

Features: • Anti-Loosening Locking Mechanism. The locking mechanism has an anti-loosening spring in a screw coupling. **Two Types of Termination:** Crimp and Solder for easy receptacle mounting. A receptacle may be mounted quickly on a panel by tightening a nut

Specifications: • **Withstand voltage:** 300VAC for 1 minimum • **Current capacity:** 2A • **Insulation resistance:** 1000MΩ or more at 100VDC • **Contact resistance:** 20mΩ or less • **Solder pot inner diameter:** 0.8

Fig. 1

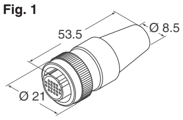

Fig. 2

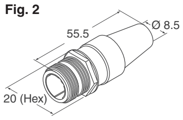

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	20	Plug - Female Crimp	HR1174-ND	16.05	15.52	14.45	HR22-12TPD-20SC(73)
	20	Plug - Male Crimp	HR1175-ND	16.05	15.52	14.45	HR22-12TPD-20PC(73)
	20	Plug - Female Solder	HR1176-ND	38.50	36.58	35.07	HR22-12TPD-20S(73)
	20	Plug - Male Solder	HR1177-ND	18.60	17.98	16.74	HR22-12TPD-20P(73)
2	20	Jack - Male Crimp	HR1178-ND	16.35	15.81	14.72	HR22-12TJD-20PC(73)
	20	Jack - Male Solder	HR1179-ND	18.30	17.69	16.47	HR22-12TJD-20P(73)
	20	Jack - Female Solder	HR1180-ND	37.52	35.65	34.17	HR22-12TJD-20S(73)
		Contact Male Pin AWG 24-28 – Crimp	HR184-ND	.44	.31	.24	HR22-PC-122
		Contact Female Pin AWG 24-28 – Crimp	HR185-ND	.45	.32	.25	HR22-SC-122
		Tools					
		Assembly Wiring Jig for HR22 Series	H9959-ND	204.82/1			HR22-12P-T01
		Manual Crimping Tool for HR22 Series - AWG 24-28	H9960-ND	1064.70/1			HR22-TA2428HC

HR212 Series

Microminiature High-Performance

Dim. in mm

Fig. 1

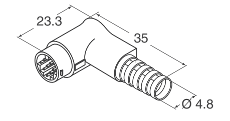

Fig. 2

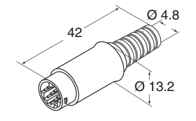

Fig. 3

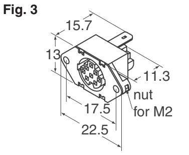

Fig. 4

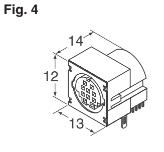

Fig. 5

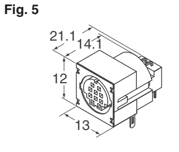

No. of Pos.	Plating	Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
		Fig. 1 — Plug, Right Angle, Solder Type					
8	Tin	Black	HR1225-ND	10.20	9.44	8.47	HR212-10LP-8P(71)
	Gold	Black	HR1227-ND	10.49	9.12	8.21	HR212-10LP-8P(73)
	Gold	Beige	HR1228-ND	10.49	9.12	8.21	HR212-10LP-8P(74)
		Fig. 1 — Plug, Right Angle, Crimp Type					
5	—	Black	HR1229-ND	9.07	7.68	6.46	HR212-10LP-5PC(71)
8	—	Black	HR1230-ND	9.07	7.68	6.46	HR212-10LP-8PC(71)
		Fig. 2 — Plug, Straight, Solder Type					
8	Tin	Black	HR1231-ND	8.65	7.52	6.77	HR212-10P-8P(71)
	Gold	Black	HR1233-ND	9.71	8.44	7.60	HR212-10P-8P(73)
	Gold	Beige	HR1234-ND	10.33	8.98	8.09	HR212-10P-8P(74)
		Fig. 2 — Plug, Straight, Crimp Type					
5	—	Black	HR1235-ND	8.74	7.40	6.22	HR212-10P-5C(71)
8	—	Black	HR1236-ND	8.74	7.40	6.22	HR212-10P-8PC(71)
10	—	Black	HR1238-ND	8.42	7.32	6.59	HR212-10P-10PC(71)
		Fig. 3 — Receptacle, Panel Mount, Crimp Type					
8	—	Black	HR1240-ND	5.13	4.25	3.54	HR212-10R-8SC(71)
		Fig. 3 — Receptacle, Vertical, PCB Type					
8	Tin	Black	HR1242-ND	6.12	5.07	4.22	HR212-10R-8SD(73)
		Fig. 4 — Receptacle, Right Angle, PCB Type					
8	Tin	Black	HR1248-ND	7.44	6.30	5.30	HR212-10RA-8SDL(74)
	Gold	Beige	HR1249-ND	7.83	6.63	5.57	HR212-10RA-8SDL(72)
		Fig. 5 — Receptacle, Right Angle, PCB Type					
10	Gold	Black	HR1251-ND	10.44	9.66	8.67	HR212-10RC-10SDL(74)

Description	Digi-Key Part No.	Price Each 10	100	Hirose Part No.
Crimp Contacts and Tool				
Male Pin, Crimped, Gold	HR450-ND	.31	.18	HR10-PC-111
Female Socket, Crimped, Gold	HR452-ND	.33	.19	HR12-SC-111
Male Pin, Crimped, Silver	HR451-ND	.25	.15	HR10-PC-112
Female Socket, Crimped, Silver	HR453-ND	.52	.35	HR12-SC-112
Hand Contact Crimp Tool	HR497-ND	703.30/1		HR12-SC-TC

(Continued)

HR25 Series

RoHS COMPLIANT

World's Smallest Round Type Multiple Contact Connectors

The HR25 is the world's smallest high-density round type connector. It was developed using Hirose Electric's long experience with miniaturization technology in answer to the continuing need for the ever greater miniaturization and high-density construction of a wide variety of electronic equipment. The voltage used should be less than 30VAC or 42VDC. Wire AWG30.

Applications: • CCD cameras, measuring instruments, wide variety of sensors, mobile radio, medical equipment. **Material**: • Insulation: PPS resin, black • Contacts: Phosphor bronze, Gold and partial gold plating • Shell: Brass and zinc alloy, Nickel plating **Ratings**: • Current capacity 1A • Insulation resistance 1000MΩ or greater • Contact resistance 30mΩ • Solder pot inside diameter 0.5mm

Fig. 1

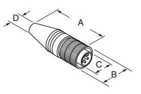

Fig. 2

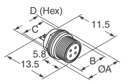

Fig. 3

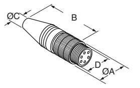

Fig. 4

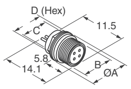

Fig. 5

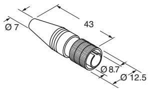

Fig. 6

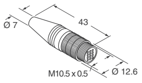

Fig. 7

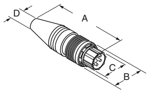

Fig. 8

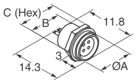

Fig. 9

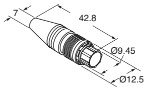

Fig. 10

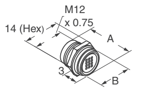

Fig. 11

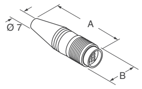

No. of Pos.	Shell Size	Dimensions (mm)				Digi-Key Part No.	Price Each			Hirose Part No.
		A	B	C	D		1	10	50	
Fig. 1 — Plugs Screw Lock - Male Solder Type										
4	7	35	10.5	6.7	5	HR1426-ND	16.16	15.62	14.54	HR25-7TP-4P(72)
6	7	35	10.5	6.7	5	HR1427-ND	17.22	16.65	15.50	HR25-7TP-6P(72)
8	7	35	10.5	6.7	5	HR1428-ND	18.27	17.67	16.45	HR25-7TP-8P(72)
12	9	43	12.5	8.7	7	HR1429-ND	30.62	29.60	27.56	HR25-9TP-12P(72)
16	9	43	12.5	8.7	7	HR1430-ND	32.75	31.66	29.48	HR25-9TP-16P(74)
20	9	43	12.5	8.7	7	HR1431-ND	35.13	33.96	31.62	HR25-9TP-20P(72)
Fig. 1 — Plugs Screw Lock - Female Solder Type										
4	7	35	10.5	6.7	5	HR1432-ND	15.92	15.39	14.33	HR25-7TP-4S(72)
6	7	35	10.5	6.7	5	HR1433-ND	16.49	15.94	14.84	HR25-7TP-6S(72)
8	7	35	10.5	6.7	5	HR1434-ND	17.00	16.43	15.30	HR25-7TP-8S(72)
12	9	43	12.5	8.7	7	HR1435-ND	24.36	23.55	21.93	HR25-9TP-12S(72)
16	9	43	12.5	8.7	7	HR1436-ND	25.32	24.48	22.79	HR25-9TP-16S(73)
20	9	43	12.5	8.7	7	HR1437-ND	26.12	25.25	23.51	HR25-9TP-20S(73)
Fig. 2 — Receptacles Screw Lock - Male Solder Cup Type										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1438-ND	12.90	12.15	11.01	HR25-7TR-4P(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1439-ND	14.11	13.28	12.04	HR25-7TR-6P(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1440-ND	15.33	14.44	13.08	HR25-7TR-8P(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1441-ND	19.53	18.88	17.58	HR25-9TR-12P(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1442-ND	18.75	18.13	16.88	HR25-9TR-16P(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1443-ND	26.43	25.55	23.79	HR25-9TR-20P(71)
Fig. 2 — Receptacles Screw Lock - Female Solder Cup Type										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1444-ND	14.86	13.75	12.34	HR25-7TR-4S(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1445-ND	13.26	12.48	11.31	HR25-7TR-6S(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1446-ND	14.45	13.60	12.33	HR25-7TR-8S(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1447-ND	15.08	14.20	12.87	HR25-9TR-12S(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1448-ND	16.17	15.22	13.79	HR25-9TR-16S(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1449-ND	15.21	14.71	13.69	HR25-9TR-20S(71)
Fig. 3 — Jacks Screw Lock - Male Solder Type										
4	7	10.6	35	5	M8.5x0.5	HR1450-ND	15.56	14.64	13.27	HR25-7TJ-4P(72)
6	7	10.6	35	5	M8.5x0.5	HR1451-ND	18.98	18.35	17.08	HR25-7TJ-6P(72)
8	7	10.6	35	5	M8.5x0.5	HR1452-ND	15.60	15.08	14.04	HR25-7TJ-8P(72)
12	9	12.6	43	7	M10.5x0.5	HR1453-ND	30.50	29.48	27.45	HR25-9TJ-12P(72)
16	9	12.6	43	7	M10.5x0.5	HR1454-ND	28.05	27.12	25.25	HR25-9TJ-16P(72)
20	9	12.6	43	7	M10.5x0.5	HR1455-ND	35.01	33.85	31.51	HR25-9TJ-20P(72)
Fig. 3 — Jacks Screw Lock - Female Solder Type										
4	7	10.6	35	5	M8.5x0.5	HR1456-ND	15.81	15.29	14.23	HR25-7TJ-4S(72)
6	7	10.6	35	5	M8.5x0.5	HR1457-ND	16.40	15.85	14.76	HR25-7TJ-6S(72)
8	7	10.6	35	5	M8.5x0.5	HR1458-ND	16.94	16.38	15.25	HR25-7TJ-8S(72)
12	9	12.6	43	7	M10.5x0.5	HR1459-ND	20.70	20.01	18.63	HR25-9TJ-12S(72)
16	9	12.6	43	7	M10.5x0.5	HR1460-ND	25.20	24.36	22.68	HR25-9TJ-16S(72)
20	9	12.6	43	7	M10.5x0.5	HR1461-ND	26.16	25.29	23.55	HR25-9TJ-20S(73)
Fig. 4 — Receptacles Screw Lock - Female PCB Type										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1468-ND	12.75	12.00	10.88	HR25-7TR-4SA(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1469-ND	13.41	12.63	11.45	HR25-7TR-6SA(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1470-ND	14.11	13.28	12.04	HR25-7TR-8SA(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1471-ND	13.26	12.48	11.31	HR25-9TR-12SA(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1472-ND	14.28	13.44	12.18	HR25-9TR-16SA(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1473-ND	15.66	15.14	14.10	HR25-9TR-20SA(71)
Fig. 5 — Plugs Screw Lock - Male Crimp Type (Contacts sold separately)										
20	9	—	—	—	—	HR1476-ND	20.70	20.01	18.63	HR25-9TP-20PC(72)
Fig. 6 — Jacks Screw Lock - Female Crimp Type (Contacts sold separately)										
20	9	—	—	—	—	HR765-ND	20.55	19.87	18.50	HR25-9TJ-20SC
Fig. 7 — Plugs Push-Pull Lock - Male Solder Type										
4	7	34.8	10.5	7.45	5	HR1851-ND	19.05	18.42	17.15	HR25A-7P-4P
6	7	34.8	10.5	7.45	5	HR1849-ND	19.95	19.29	17.96	HR25A-7P-6P
8	7	34.8	10.5	7.45	5	HR1847-ND	20.85	20.16	18.77	HR25A-7P-8P
12	9	42.8	12.5	9.45	7	HR1845-ND	30.15	29.15	27.14	HR25A-9P-12P
16	9	42.8	12.5	9.45	7	HR1843-ND	32.25	31.18	29.03	HR25A-9P-16P
20	9	42.8	12.5	9.45	7	HR1841-ND	34.35	33.21	30.92	HR25A-9P-20P
Fig. 7 — Plugs Push-Pull Lock - Female Solder Type										
4	7	34.8	10.5	7.45	5	HR1852-ND	18.60	17.98	16.74	HR25A-7P-4S
6	7	34.8	10.5	7.45	5	HR1850-ND	19.20	18.56	17.28	HR25A-7P-6S
8	7	34.8	10.5	7.45	5	HR1848-ND	19.65	19.00	17.69	HR25A-7P-8S
12	9	42.8	12.5	9.45	7	HR1846-ND	24.30	23.49	21.87	HR25A-9P-12S
16	9	42.8	12.5	9.45	7	HR1844-ND	25.35	24.51	22.82	HR25A-9P-16S
20	9	42.8	12.5	9.45	7	HR1842-ND	26.10	25.23	23.49	HR25A-9P-20S
Fig. 8 — Receptacles Push-Pull Lock - Male Solder Cup Type										
4	7	11	M10x0.75	12	—	HR1864-ND	13.48	12.69	11.50	HR25A-7R-4P
6	7	11	M10x0.75	12	—	HR1862-ND	14.47	13.62	12.34	HR25A-7R-6P
8	7	11	M10x0.75	12	—	HR1860-ND	15.64	14.72	13.34	HR25A-7R-8P
12	9	13	M13x0.75	14	—	HR1858-ND	20.25	19.58	18.23	HR25A-9R-12P
16	9	13	M13x0.75	14	—	HR1856-ND	22.20	21.46	19.98	HR25A-9R-16P
20	9	13	M13x0.75	14	—	HR1854-ND	24.30	23.49	21.87	HR25A-9R-20P
Fig. 8 — Receptacles Push-Pull Lock - Female Solder Cup Type										
4	7	11	M10x0.75	12	—	HR1863-ND	13.01	12.24	11.10	HR25A-7R-4S
6	7	11	M10x0.75	12	—	HR1861-ND	13.65	12.85	11.65	HR25A-7R-6S
8	7	11	M10x0.75	12	—	HR1859-ND	14.14	13.32	12.07	HR25A-7R-8S
12	9	13	M13x0.75	14	—	HR1857-ND	16.32	15.36	13.92	HR25A-9R-12S
16	9	13	M13x0.75	14	—	HR1855-ND	15.30	14.79	13.77	HR25A-9R-16S
20	9	13	M13x0.75	14	—	HR1853-ND	16.05	15.52	14.45	HR25A-9R-20S
Fig. 9 — Plugs Push-Pull Lock - Male Crimp Type (Contacts sold separately)										
16	9	—	—	—	—	HR1891-ND	23.10	22.33	20.79	HR25A-9P-16PC
20	9	—	—	—	—	HR1889-ND	23.40	22.62	21.06	HR25A-9P-20PC
Fig. 10 — Receptacles Push-Pull Lock - Male Crimp Type (Contacts sold separately)										
16	9	13.8	—	—	—	HR1523-ND	13.96	13.14	11.91	HR25-9R-16PC(71)
Fig. 10 — Receptacles Push-Pull Lock - Male Solder Type										
4	7	11.8	11	—	—	HR1888-ND	13.48	12.69	11.50	HR25A-7R-4PA
6	7	11.8	11	—	—	HR1886-ND	14.47	13.62	12.34	HR25A-7R-6PA
8	7	11.8	11	—	—	HR1884-ND	15.64	14.72	13.34	HR25A-7R-8PA
12	9	11.8	11	—	—	HR1882-ND	20.25	19.58	18.23	HR25A-7R-12PA
16	9	11.8	11	—	—	HR1880-ND	22.20	21.46	19.98	HR25A-7R-16PA
20	9	11.8	11	—	—	HR1878-ND	24.30	23.49	21.87	HR25A-7R-20PA
Fig. 10 — Receptacles Push-Pull Lock - Female Solder Type										
4	7	11.8	11	—	—	HR1887-ND	13.11	12.34	11.18	HR25A-7R-4SA
6	7	11.8	11	—	—	HR1885-ND	13.77	12.96	11.75	HR25A-7R-6SA
8	7	11.8	11	—	—	HR1883-ND	14.35	13.51	12.24	HR25A-7R-8SA
12	9	11.8	13	—	—	HR1881-ND	16.66	15.68	14.21	HR25A-9R-12SA
16	9	11.8	13	—	—	HR1879-ND	15.60	15.08	14.04	HR25A-9R-16SA
20	9	11.8	13	—	—	HR1877-ND	16.50	15.95	14.85	HR25A-9R-20SA
Fig. 11 — Jacks Push-Pull Lock - Male Solder Type										
4	7	35.8	11.8	—	—	HR1876-ND	19.05	18.42	17.15	HR25A-7J-4P
6	7	35.8	11.8	—	—	HR1874-ND	19.95	19.29	17.96	HR25A-7J-6P
8	7	35.8	11.8	—	—	HR1872-ND	21.00	20.30	18.90	HR25A-7J-8P
12	9	43.8	13.8	—	—	HR1870-ND	30.15	29.15	27.14	HR25A-9J-12P
16	9	43.8	13.8	—	—	HR1868-ND	32.25	31.18	29.03	HR25A-9J-16P
20	9	43.8	13.8	—	—	HR1866-ND	34.35	33.21	30.92	HR25A-9J-20P

(Continued)

HIROSE ELECTRIC CO., LTD.

Circular Connectors HR25 Series

World's Smallest Round Type Multiple Contact Connectors *(Cont.)*

No. of Pos.	Shell Size	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 11 — Jacks Push-Pull Lock - Female Crimp Type (Contacts sold separately)										
20	9	43.8	13.8	—	—	HR1901-ND	23.40	22.62	21.06	HR25A-9J-20SC
Fig. 11 — Jacks Push-Pull Lock - Female Solder Type										
4	7	35.8	11.8	—	—	HR1875-ND	18.60	17.98	16.74	HR25A-7J-4S
6	7	35.8	11.8	—	—	HR1873-ND	19.20	18.56	17.28	HR25A-7J-6S
8	7	35.8	11.8	—	—	HR1871-ND	19.65	19.00	17.69	HR25A-7J-8S
12	9	43.8	13.8	—	—	HR1869-ND	24.30	23.49	21.87	HR25A-9J-12S
16	9	43.8	13.8	—	—	HR1867-ND	25.35	24.51	22.82	HR25A-9J-16S
20	9	43.8	13.8	—	—	HR1865-ND	26.25	25.38	23.63	HR25A-9J-20S

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tool for HR25 Series			
Manual Crimp Tool (Ferrule)	H9974-ND	363.09	HR10A-TC-02

RP13A Series Push-Pull Lock Connectors

Performance: • Withstanding Voltage: 300VAC minimum **• Current Rating:** 2A (AWG #24) **• Insulation:** 1000MΩ maximum (250VDC) **• Contact:** 15mΩ minimum (1A DC)

Features: Single motion push-pull locking mechanism provides improved quick inserting/extracting capability. Multi-slot key mating guide prevents mis-insertion. Outer shell, made of strong glass fiber polycarbonate resin, is lightweight yet rigid. As the cable connection method, crimping is used for plug, and crimping and PCB dip for receptacle.

Fig. 1

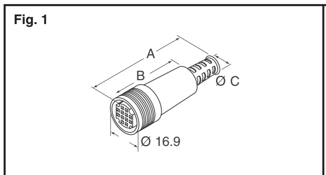

Fig. 2

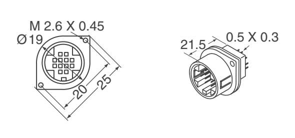

Fig. 3

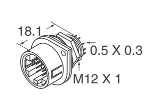

Fig. 4

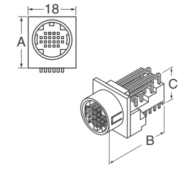

Fig. 5

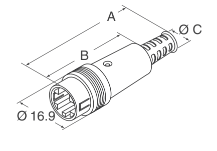

No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 — Plug with Female Terminal – Crimp								
20	52.2	37	7.5	HR252-ND	8.21	7.14	6.43	RP13A-12PG-20SC
Fig. 1 — Plug with Female Terminal – Crimp — RoHS Compliant								
13	47.2	32	6.1	HR1253-ND	6.68	5.66	4.76	RP13A-12PA-13SC(71)
13	52.2	37	6.1	HR1257-ND	6.66	5.64	4.74	RP13A-12PD-13SC(71)
13	47.2	32	6.4	HR1258-ND	6.66	5.64	4.74	RP13A-12PE-13SC(71)
13	52.2	37	7.1	HR1279-ND	6.86	5.81	4.89	RP13A-12PK-13SC(71)
13	52.2	37	8.1	HR1284-ND	6.66	5.64	4.74	RP13A-12PS-13SC(71)
15	52.2	37	6.1	HR1261-ND	9.07	7.68	6.46	RP13A-12PD-15SC(71)
15	52.2	37	7.1	HR1268-ND	9.07	7.68	6.46	RP13A-12PK-15SC(71)
20	52.2	37	6.1	HR1264-ND	8.74	7.60	6.84	RP13A-12PD-20SC(71)
20	52.2	37	7.5	HR1263-ND	8.74	7.60	6.84	RP13A-12PG-20SC(71)
20	52.2	37	8.1	HR1283-ND	8.74	7.60	6.84	RP13A-12PS-20SC(71)
Fig. 2 — Receptacle (Flange Type) with Male Terminal – Dip — RoHS Compliant								
13	—	—	—	HR1259-ND	6.53	5.40	4.50	RP13A-12RA-13PA(71)
15	—	—	—	HR1276-ND	6.79	5.75	4.83	RP13A-12RA-15PA(71)
Fig. 3 — Receptacle (Jam Nut Fastening Type) with Male Terminal – Dip — RoHS Compliant								
13	—	—	—	HR1260-ND	6.41	5.31	4.42	RP13A-12RB-13PA(71)
Fig. 4 — Right Angle Dip with Male Terminal — RoHS Compliant								
13	17.5	23.5	13	HR264-ND	9.71	8.44	7.60	RP13A-12RC-13PB
20	19.5	31.5	15	HR265-ND	10.49	9.12	8.21	RP13A-12RC-20PB
Fig. 5 — Jack with Male Terminal – Crimp — RoHS Compliant								
13	49.1	34.6	6.1	HR1252-ND	7.70	6.52	5.48	RP13A-12J-13PC(71)
20	52.6	37.4	7.4	HR1277-ND	13.52	12.51	11.23	RP13A-12JG-20PC(71)
Pins For 13 and 15 Contacts — RoHS Compliant								
Male - Gold Plating, 24-28 AWG				HR270-ND	.48	.34	.26	RP13-PC-121
Male - Silver Plating, 24-28 AWG				HR271-ND	.42	.30	.23	RP13-PC-122
Female - Gold Plating, 24-28 AWG				HR272-ND	.52	.37	.29	RP13A-SC-121
Female - Silver Plating, 24-28 AWG				HR273-ND	.41	.29	.23	RP13A-SC-122
Pins for Size 13 Superthick Wires — RoHS Compliant								
Male - Silver Plating, 18-22 AWG				HR274-ND	.42	.30	.23	RP13-PC-112
Female - Silver Plating, 18-22 AWG				HR275-ND	.55	.35	.23	RP13A-SC-112
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.48	.30	.20	RP19-SC-112
Pins for 20 Contact — RoHS Compliant								
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.48	.30	.20	RP19-SC-112
Male - Gold Plating 24-30 AWG				HR278-ND	.44	.31	.24	RP19-PC-121
Female - Gold Plating 24-30 AWG				HR279-ND	.59	.42	.32	RP19-SC-121
Male - Silver Plating 24-30 AWG				HR280-ND	.45	.29	.19	RP19-PC-122
Female - Silver Plating 24-28 AWG				HR281-ND	.47	.29	.20	RP19-SC-122

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Manual Crimping Tool for RP13 Series 18-22 AWG	H9973-ND	654.36	RP13-TC-11
Manual Crimping Tool for RP13 Series 24-28 AWG	H9972-ND	654.36	RP13-TC-12
Manual Crimping Tool for RP13A Series 18-22 AWG	H9971-ND	654.36	RP13A-TC-11
Manual Crimping Tool for RP13A Series 24-28 AWG	H9970-ND	654.36	RP13A-TC-12
Manual Crimping Tool for RP19 Series 18-22 AWG	H9969-ND	681.20	RP19-TC-11
Manual Crimping Tool for RP19 Series 24-28 AWG	H9968-ND	681.20	RP19-TC-12
Cable Crimping Tool for RP13A Series - Wire Dim. 7.3-8.3 mm	H9967-ND	781.30	RP13A-TC-01
Cable Crimping Tool for RP13A Series - Wire Dim. 7.5-8.6 mm	H9966-ND	781.30	RP13A-TC-02
Extractor - Male Terminals RP13	H9965-ND	8.53	RP13-PC-TP
Extractor - Female Terminals RP13A	H9964-ND	4.76	RP13A-SC-TP

RP17 Series Push-Pull Lock Connectors

RoHS COMPLIANT

Specifications: • Withstanding Voltage: 1000VAC for 1 minute **• Current Capacity:** 5A (AWG18-22) Fits contact No. 2,11, 12 2A (AWG24-30) Fits contact #1, 3, 4, 5, 6, 7, 8, 9, 10 **• Insulation Resistance:** 1000MΩ minimum at 500VDC **• Contact Resistance:** 15mΩ maximum at 1A VDC **• Applicable Wire:** AWG18-22 (Large barrel) AWG24-30 (Small barrel)

Features: One touch "push-pull lock" coupling mechanism assures easy and quick connection and disconnection. Use applicable cable • AWG18-22 (shielded outer diameter. 1.7mm under) to 3 pins among 12 pins and other applicable cable • AWG24-30 (shielded outer diameter. 1.2mm under) to be usable due to crimp terminal. Mating guide keys is multiple polarizing to be ensured specified position. Simple and slender appearance with internal installed cable clamp. External appearance is matte finish black color. Mating position mark is located with white color, assures easy and quick connection and disconnection.

Dim. in mm

Fig. 1

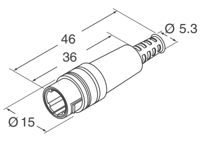

Fig. 2

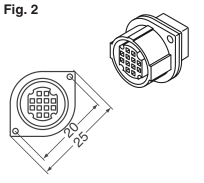

Fig. 3

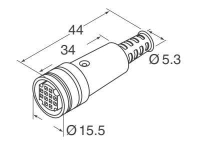

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	12	Plug - Male Crimp	HR1269-ND	6.84	5.67	4.72	RP17-13P-12PC(71)
	12	Plug (ESD) Male Crimp	HR1274-ND	6.97	5.90	4.96	RP17A-13P-12PC(71)
2	12	Recept. - Female Crimp	HR1270-ND	2.57	2.14	1.78	RP17-13R-12SC(71)
	12	Recept. - Female Dip	HR1271-ND	6.32	5.24	4.36	RP17-13RA-12SD(71)
	12	Recept. (ESD) Female Dip	HR1275-ND	6.84	5.67	4.72	RP17A-13RA-12SD(71)
3	12	Jack - Female Crimp	HR1272-ND	8.06	6.82	5.74	RP17-13J-12SC(71)
Contacts							
Male Pin AWG 18-22			HR289-ND	.47	.33	.26	RP17-PC-112
Male Pin AWG 24-30			HR290-ND	.46	.33	.25	RP17-PC-122
Female Pin AWG 18-22			HR291-ND	.47	.33	.26	RP17-SC-112
Female Pin AWG 24-30			HR292-ND	.47	.33	.26	RP17-SC-122
Tools							
Manual Crimping Tool for AWG 18-22			H9963-ND		654.36/1		RP17-TC-11
Manual Crimping Tool for AWG 24-30			H9962-ND		654.36/1		RP17-TC-12
Cable Crimping Tool			H9961-ND		363.09/1		RP17-TC-01

RP Series Plastic Connectors 12mm Connectors Panel Mount

RoHS COMPLIANT

Specifications:

- Operating Voltage: 150VAC (6, 7 pin), 250VAC (3 pin)
- Current Rating: 5A
- Contact Resistance: 5mΩ maximum at 1A DC

Materials:

- Male Pin: Brass and silver plating
- Female Pin:
  Phosphor bronze and silver plating

Dim. in mm

RP1

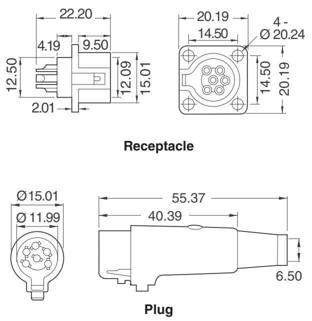

Receptacle

Plug

RP2

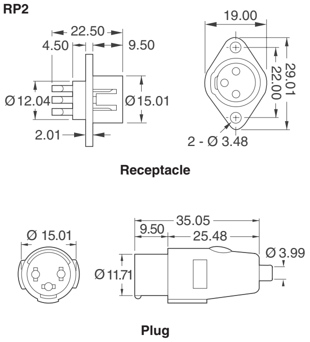

Receptacle

Plug

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
RP1 Series, 12mm						
6	Receptacle with Pin Insert	HR1817-ND	3.12	2.60	1.92	RPC1-12RB-6P(71)
6	Plug with Socket Insert	HR1814-ND	4.26	3.53	2.65	RPC1-12P-6S(72)
RP2 Series, 12mm						
3	Receptacle with Pin Insert	HR1818-ND	2.02	1.68	1.24	RPC2-12RB-3P(71)
7	Receptacle with Pin Insert	HR1819-ND	3.19	2.64	1.98	RPC2-12RB-7P(71)
3	Plug with Socket Insert	HR1815-ND	3.71	3.08	2.31	RPC2-12P-3S(71)
7	Plug with Socket Insert	HR1816-ND	4.61	3.82	2.87	RPC2-12P-7S(71)

BULGIN

400 Series Buccaneer® Connectors

Features: • Sealed to IP68 when mated • Scoop proof contacts • 2.5mm contact engagement for electrical integrity **Electrical Specifications:** • Current Rating: 2,3 position 8A/250V; 4,6,8 position 5A/125V; 10,12 position 1A/50V • Contact Resistance: <5mΩ • Insulation Resistance: >10^6MΩ @ 500VDC • AC Breakdown Voltage: 2.5kV • Operating Temperature Range: -40°C ~ 80°C **Material Specifications:** • Body Moulding: Polyamide • Flammability: UL94V-0 • UV Resistance: To EN 50021: 1999 • Contacts: Copper alloy, Gold plated • O-Rings: Nitrile • Panel Sealing O-Ring: Nitrile

Dim. in mm

Fig. 1

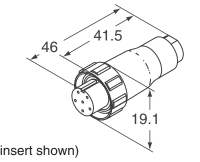

(Socket insert shown)

Fig. 2

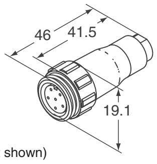

(Socket insert shown)

Fig. 3

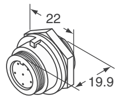

(Socket insert shown)

Fig. 4

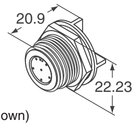

(Socket insert shown)

Fig.	No. of Positions	Cable Entry Size (mm)	Digi-Key Part No.	Price Each			Bulgin Part No.
				1	25	50	
Flex Cable Plug Connectors without Contacts							
1	2	5.5 ~ 6.0	708-1030-ND	5.99	5.50	4.89	PX0410/02P/5560
	3	5.5 ~ 6.0	708-1031-ND	5.99	5.50	4.89	PX0410/03P/5560
	4	4.5 ~ 5.0	708-1032-ND	5.99	5.50	4.89	PX0410/04P/4550
	6	4.5 ~ 5.0	708-1033-ND	5.99	5.50	4.89	PX0410/06P/4550
	8	6.0 ~ 6.5	708-1034-ND	5.99	5.50	4.89	PX0410/08P/6065
	10	6.0 ~ 6.5	708-1035-ND	5.99	5.50	4.89	PX0410/10P/6065
	12	6.0 ~ 6.5	708-1036-ND	5.99	5.50	4.89	PX0410/12P/6065
Flex Cable Receptacles without Contacts							
1	2	5.5 ~ 6.0	708-1037-ND	5.99	5.50	4.89	PX0410/02S/5560
	3	5.5 ~ 6.0	708-1038-ND	5.99	5.50	4.89	PX0410/03S/5560
	4	4.5 ~ 5.0	708-1039-ND	5.99	5.50	4.89	PX0410/04S/4550
	6	4.5 ~ 5.0	708-1040-ND	5.99	5.50	4.89	PX0410/06S/4550
	8	6.0 ~ 6.5	708-1041-ND	5.99	5.50	4.89	PX0410/08S/6065
	10	6.0 ~ 6.5	708-1042-ND	5.99	5.50	4.89	PX0410/10S/6065
	12	6.0 ~ 6.5	708-1043-ND	5.99	5.50	4.89	PX0410/12S/6065
In-Line Flex Cable Plug Connectors without Contacts							
2	2	5.5 ~ 6.0	708-1044-ND	5.99	5.50	4.89	PX0411/02P/5560
	3	5.5 ~ 6.0	708-1045-ND	5.99	5.50	4.89	PX0411/03P/5560
	4	4.5 ~ 5.0	708-1046-ND	5.99	5.50	4.89	PX0411/04P/4550
	6	4.5 ~ 5.0	708-1047-ND	5.99	5.50	4.89	PX0411/06P/4550
	8	6.0 ~ 6.5	708-1048-ND	5.99	5.50	4.89	PX0411/08P/6065
	10	6.0 ~ 6.5	708-1049-ND	5.99	5.50	4.89	PX0411/10P/6065
	12	6.0 ~ 6.5	708-1050-ND	5.99	5.50	4.89	PX0411/12P/6065
In-Line Flex Cable Receptacles without Contacts							
2	2	5.5 ~ 6.0	708-1051-ND	5.99	5.50	4.89	PX0411/02S/5560
	3	5.5 ~ 6.0	708-1052-ND	5.99	5.50	4.89	PX0411/03S/5560
	4	4.5 ~ 5.0	708-1053-ND	5.99	5.50	4.89	PX0411/04S/4550
	6	4.5 ~ 5.0	708-1054-ND	5.99	5.50	4.89	PX0411/06S/4550
	8	6.0 ~ 6.5	708-1055-ND	5.99	5.50	4.89	PX0411/08S/6065
	10	6.0 ~ 6.5	708-1056-ND	5.99	5.50	4.89	PX0411/10S/6065
	12	6.0 ~ 6.5	708-1057-ND	5.99	5.50	4.89	PX0411/12S/6065
Jam Nut Panel Mount Plug Connectors without Contacts							
3	2	—	708-1058-ND	5.10	4.69	4.17	PX0412/02P
	3	—	708-1059-ND	5.10	4.69	4.17	PX0412/03P
	4	—	708-1060-ND	5.10	4.69	4.17	PX0412/04P
	6	—	708-1061-ND	5.10	4.69	4.17	PX0412/06P
	8	—	708-1062-ND	5.10	4.69	4.17	PX0412/08P
	10	—	708-1063-ND	5.10	4.69	4.17	PX0412/10P
	12	—	708-1064-ND	5.10	4.69	4.17	PX0412/12P
Jam Nut Panel Mount Receptacles without Contacts							
3	2	—	708-1065-ND	5.10	4.69	4.17	PX0412/02S
	3	—	708-1066-ND	5.10	4.69	4.17	PX0412/03S
	4	—	708-1067-ND	5.10	4.69	4.17	PX0412/04S
	6	—	708-1068-ND	5.10	4.69	4.17	PX0412/06S
	8	—	708-1069-ND	5.10	4.69	4.17	PX0412/08S
	10	—	708-1070-ND	5.10	4.69	4.17	PX0412/10S
	12	—	708-1071-ND	5.10	4.69	4.17	PX0412/12S
PCB Mount Receptacles with Pin Contacts							
4	2	—	708-1072-ND	6.25	5.81	5.14	PX0413/02P/PC
	3	—	708-1073-ND	7.57	7.04	6.23	PX0413/03P/PC
	4	—	708-1074-ND	10.16	9.43	8.34	PX0413/04P/PC
4	6	—	708-1075-ND	12.75	11.84	10.48	PX0413/06P/PC
	8	—	708-1076-ND	15.47	14.36	12.71	PX0413/08P/PC
	10	—	708-1077-ND	16.97	15.75	13.94	PX0413/10P/PC
	12	—	708-1078-ND	17.93	16.65	14.73	PX0413/12P/PC
PCB Mount Receptacles with Socket Contacts							
4	2	—	708-1079-ND	7.15	6.64	5.88	PX0413/02S/PC
	3	—	708-1080-ND	8.58	7.98	7.06	PX0413/03S/PC
	4	—	708-1081-ND	11.65	10.82	9.56	PX0413/04S/PC
	6	—	708-1082-ND	14.49	13.46	11.91	PX0413/06S/PC
	8	—	708-1083-ND	17.41	16.17	14.29	PX0413/08S/PC
	10	—	708-1084-ND	19.85	18.43	16.31	PX0413/10S/PC
	12	—	708-1085-ND	22.78	21.14	18.71	PX0413/12S/PC

Description	Digi-Key Part No.	Price Each			Bulgin Part No.
		1	25	50	
Contacts / Sealing Caps / Tools					
Crimp Sockets, 8A 20~24AWG, 2~3 Position	708-1086-ND‡	10.97	10.07	8.95	SA3349
Crimp Sockets, 5A 22~26AWG, 4~8 Position	708-1088-ND‡	10.10	9.28	8.25	SA3347
Crimp Sockets, 1A 24~28AWG, 10~12 Position	708-1147-ND‡	7.26	6.67	5.93	SA3179
Crimp Pins, 8A 20~24AWG, 2~3 Position	708-1087-ND‡	8.02	7.37	6.55	SA3350
Crimp Pins, 5A 22~26AWG, 4~8 Position	708-1089-ND‡	6.35	5.83	5.18	SA3348
Crimp Pins, 1A 24~28AWG, 10~12 Position	708-1090-ND‡	4.89	4.49	3.99	SA3180
Solder Sockets, 8A, 20~24AWG, 2~3 Position	708-1091-ND‡	10.97	10.07	8.95	SA3349/1
Solder Sockets, 5A, 22~26AWG, 4~8 Position	708-1093-ND‡	10.10	9.28	8.25	SA3347/1
Solder Sockets, 1A, 24~28AWG, 10~12 Position	708-1095-ND‡	7.26	6.67	5.93	SA3179/1
Solder Pins, 8A, 20~24AWG, 2~3 Position	708-1092-ND‡	8.02	7.37	6.55	SA3350/1
Solder Pins, 5A, 22~26AWG, 4~8 Position	708-1094-ND‡	6.35	5.83	5.18	SA3348/1
Solder Pins, 1A, 24~28AWG, 10~12 Position	708-1096-ND‡	4.89	4.49	3.99	SA3180/1
Sealing Cap for PX0412 Series	708-1275-ND	1.52	1.39	1.24	PX0480
Sealing Cap for PX0411 Series	708-1097-ND	1.52	1.39	1.24	PX0480/1
Sealing Cap for PX0413 Series	708-1098-ND	1.85	1.71	1.52	PX0484
Pack of 4 Cable Glands, for 3~5mm Cable	708-1099-ND	1.09	1.00	.89	PX0482
Pack of 4 Cable Glands, for 5~7mm Cable	708-1100-ND	1.09	1.00	.89	PX0483
Insertion/Extraction Tool for 1A Contacts	708-1183-ND	8.31	—	—	13027
Insertion/Extraction Tool for 5A Contacts	708-1101-ND	8.31	—	—	13027/1
Insertion/Extraction Tool for 8A Contacts	708-1102-ND	8.31	—	—	13027/2
Crimp positioner Tool for 1A Contacts	708-1104-ND	121.50	—	—	14025/1AMP
Crimp positioner Tool for 5A Contacts	708-1105-ND	121.50	—	—	14025/5AMP
Crimp positioner Tool for 8A Contacts	708-1106-ND	121.50	—	—	14025/8AMP
Crimp Tool for use with Positioners	708-1103-ND	737.30	—	—	14025

‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

Standard Buccaneer® Connectors

Features: • Water and dust proof to IP68 when mated • Easy assembly – No special tools required on screw • Positive locating keyways **Electrical Specifications:** Current Rating: 2,3 Pos. 10A/250V; 4 Pos. 6A/250V; 6,7 Pos. 3A/250V; 9 Pos. 5A/150V; 12 Pos. 5A/50V; 25 Pos. 1A/50V • Contact Resistance: 2 ~ 9 Pos. <10mΩ; 12 ~ 25 Pos. <5mΩ • Operating Temperature Range: -20°C ~ 70°C

Fig. 1

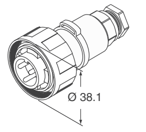

(Pin insert shown)

Fig. 2

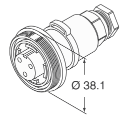

(Socket insert shown)

Fig. 3

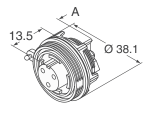

(Socket insert shown)

Fig. 4

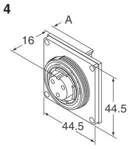

(Socket insert shown)

Fig. 5

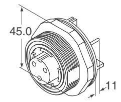

(Socket insert shown)

Fig. 6

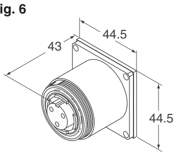

Fig.	No. of Positions	Dim.A (mm)	Termination	Digi-Key Part No.	Price Each			Bulgin Part No.
					1	25	50	
Flex Cable Connectors with Pin Contacts								
1	2	—	Screw	708-1107-ND	10.55	9.39	8.33	PX0736/P
	3	—	Screw	708-1108-ND	11.21	9.98	9.01	PX0731/P
	4	—	Screw	708-1109-ND	12.17	11.18	9.94	PX0748/P
	6	—	Screw	708-1110-ND	12.59	11.19	10.17	PX0739/P
	7	—	Screw	708-1111-ND	12.90	11.84	10.53	PX0745/P
	9	—	Crimp	708-1112-ND	11.45	10.51	9.34	PX0728/P
	12	—	Crimp/Solder	708-1113-ND†	11.64	10.82	9.56	PX0794/P
	25	—	Crimp/Solder	708-1114-ND†	7.58	6.96	6.19	PX0820/P

† Contacts not included – Order separately ‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs *(Continued)*

Standard Buccaneer® Connectors *(Cont.)*

Fig.	No. of Positions	Dim.A (mm)	Termination	Digi-Key Part No.	Price Each			Bulgin Part No.
					1	25	50	
Flex Cable Connectors with Socket Contacts								
1	2	—	Screw	708-1115-ND	12.71	11.30	10.35	PX0736/S
	3	—	Screw	708-1116-ND	13.35	11.89	10.98	PX0731/S
	4	—	Screw	708-1117-ND	13.96	12.82	11.39	PX0748/S
	6	—	Screw	708-1118-ND	16.18	14.40	13.31	PX0739/S
	7	—	Screw	708-1119-ND	16.04	14.73	13.09	PX0745/S
	9	—	Crimp	708-1120-ND	11.45	10.51	9.34	PX0728/S
	12	—	Crimp/Solder	708-1121-ND†	11.64	10.82	9.56	PX0794/S
	25	—	Crimp/Solder	708-1122-ND†	7.58	6.96	6.19	PX0820/S
In-Line Flex Cable Connectors with Pin Contacts								
2	2	—	Screw	708-1148-ND	12.20	10.87	9.83	PX0737/P
	3	—	Screw	708-1149-ND	12.86	11.44	10.35	PX0732/P
	4	—	Screw	708-1150-ND	13.96	12.82	11.39	PX0749/P
	6	—	Screw	708-1151-ND	14.02	12.48	11.38	PX0740/P
	7	—	Screw	708-1152-ND	14.83	13.62	12.10	PX0746/P
	9	—	Crimp	708-1153-ND	13.14	12.07	10.72	PX0729/P
	12	—	Crimp/Solder	708-1154-ND†	11.64	10.82	9.56	PX0795/P
	25	—	Crimp/Solder	708-1155-ND†	8.00	7.34	6.53	PX0821/P
In-Line Flex Cable Connectors with Socket Contacts								
2	2	—	Screw	708-1156-ND	14.35	12.76	11.40	PX0737/S
	3	—	Screw	708-1157-ND	15.00	13.35	12.12	PX0732/S
	4	—	Screw	708-1158-ND	15.89	14.59	12.97	PX0749/S
	6	—	Screw	708-1159-ND	16.98	15.11	13.72	PX0740/S
	7	—	Screw	708-1160-ND	17.97	16.50	14.67	PX0746/S
	9	—	Crimp	708-1161-ND	13.14	12.07	10.72	PX0729/S
	12	—	Crimp/Solder	708-1162-ND†	11.64	10.82	9.56	PX0795/S
	25	—	Crimp/Solder	708-1163-ND†	8.00	7.34	6.53	PX0821/S
Panel Mount Jam Nut Connectors with Pin Contacts								
3	2	11.0	Screw	708-1123-ND	8.25	7.34	6.83	PX0735/P
	3	14.3	Screw	708-1124-ND	9.06	8.07	7.39	PX0730/P
	4	11.8	Screw	708-1125-ND	9.71	8.92	7.93	PX0747/P
	6	11.8	Screw	708-1126-ND	10.22	9.09	8.38	PX0738/P
	7	20.0	Screw	708-1127-ND	10.77	9.89	8.79	PX0744/P
	9	19.8	Crimp	708-1128-ND	8.98	8.25	7.33	PX0727/P
	12	9.6	Crimp/Solder	708-1129-ND†	12.06	11.20	9.90	PX0796/P
	25	9.6	Crimp/Solder	708-1130-ND†	5.71	5.25	4.66	PX0822/P
Panel Mount Jam Nut Connectors with Socket Contacts								
3	2	19.0	Screw	708-1131-ND	10.42	9.27	8.38	PX0735/S
	3	21.95	Screw	708-1132-ND	11.21	9.98	9.01	PX0730/S
	4	14.95	Screw	708-1133-ND	11.64	10.69	9.50	PX0747/S
	6	14.95	Screw	708-1134-ND	13.77	12.35	11.81	PX0738/S
	7	21.65	Screw	708-1135-ND	13.96	12.82	11.39	PX0744/S
	9	9.6	Crimp	708-1136-ND	8.98	8.25	7.33	PX0727/S
	12	11.4	Crimp/Solder	708-1137-ND†	12.06	11.20	9.90	PX0796/S
	25	9.6	Crimp/Solder	708-1138-ND†	5.71	5.25	4.66	PX0822/S
Low Profile Box Mount Connectors with Pin Contacts								
4	2	11.0	Screw	708-1139-ND	10.85	9.65	8.83	PX0764/P
	3	14.3	Screw	708-1140-ND	10.85	9.66	8.85	PX0765/P
	6	11.8	Screw	708-1141-ND	11.97	10.66	9.76	PX0767/P
	9	19.8	Crimp	708-1142-ND	13.04	11.98	10.65	PX0769/P
Low Profile Box Mount Connectors with Socket Contacts								
4	2	19.0	Screw	708-1143-ND	12.14	10.80	9.87	PX0764/S
	3	21.95	Screw	708-1144-ND	12.94	11.52	10.54	PX0765/S
	6	14.95	Screw	708-1145-ND	14.87	13.24	12.11	PX0767/S
	9	9.6	Crimp	708-1146-ND	13.04	11.98	10.65	PX0769/S
Rear Panel Mount Connectors with Pin Contacts								
5	3	—	PCB	708-1164-ND	12.51	11.62	10.27	PX0707/P/03
	6	—	PCB	708-1165-ND	15.10	14.02	12.40	PX0707/P/06
	9	—	PCB	708-1166-ND	17.94	16.66	14.74	PX0707/P/09
	12	—	PCB	708-1167-ND	19.83	18.42	16.29	PX0707/P/12
	25	—	PCB	708-1168-ND	30.25	28.10	24.85	PX0707/P/25
Rear Panel Mount Connectors with Socket Contacts								
5	3	—	PCB	708-1169-ND	15.85	14.73	13.03	PX0707/S/03
	6	—	PCB	708-1170-ND	20.78	19.30	17.08	PX0707/S/06
	9	—	PCB	708-1171-ND	22.68	21.06	18.63	PX0707/S/09
	12	—	PCB	708-1172-ND	24.57	22.82	20.19	PX0707/S/12
	25	—	PCB	708-1173-ND	35.00	32.50	28.75	PX0707/S/25
Bulkhead Connectors with Socket Contacts								
6	2	—	Screw	708-1174-ND	11.45	10.20	8.89	PX0757/S
	3	—	Screw	708-1175-ND	13.27	11.81	10.47	PX0756/S
	6	—	Screw	708-1176-ND	15.25	13.57	11.81	PX0758/S

Description	Digi-Key Part No.	Price Each			Bulgin Part No.
		1	25	50	
Contacts, Sealing Caps and Tools					
Crimp Sockets, 5A 22 ~ 26AWG, 12 Position	708-1088-ND‡	10.10	9.28	8.25	SA3347
Crimp Sockets, 5A, 24 ~ 28AWG, 25 Position	708-1147-ND‡	7.26	6.67	5.93	SA3179
Crimp Pins, 5A 22 ~ 26AWG, 12 Position	708-1089-ND‡	6.35	5.83	5.18	SA3348
Crimp Pins, 1A 24 ~ 28AWG, 25 Position	708-1090-ND‡	4.89	4.49	3.99	SA3180
Solder Sockets, 5A, 22 ~ 26AWG, 12 Position	708-1093-ND‡	10.10	9.28	8.25	SA3347/1
Solder Sockets, 1A, 24 ~ 28AWG, 25 Position	708-1095-ND‡	7.26	6.67	5.93	SA3179/1
Solder Pins, 5A, 22 ~ 26AWG, 12 Position	708-1094-ND‡	6.35	5.83	5.18	SA3348/1
Solder Pins, 1A, 24 ~ 28AWG, 25 Position	708-1096-ND‡	4.89	4.49	3.99	SA3180/1
Cable Joiner for 6mm ~ 8mm diameter cables	708-1177-ND	10.96	10.06	8.94	PX0777
Sealing Cap for Flex Cable Connectors	708-1178-ND	1.56	1.43	1.27	PX0734
Sealing Cap for PCB and Rear Panel Mount Connectors	708-1179-ND	1.99	1.77	1.55	PX0711
Sealing Cap for In-Line Flex, Front Panel, Bulkhead and Box Mount Connectors	708-1180-ND	1.19	1.10	.97	PX0733
Spring Loaded Sealing Cap for Panel Mount Connectors	708-1362-ND	5.20	4.73	3.94	PX0713
Cable Support for 5 ~ 7mm and 7 ~ 9mm Diameter Cables	708-1361-ND	1.09	1.00	.89	12237
Cable Gland, Yellow for 7 ~ 9mm Diameter Cables	708-1459-ND	.28	.25	.23	12023/2
Hand Crimp Tool, 9 Position	708-1181-ND	158.73	—	—	13826
Hand Crimp Tool, 25 Position	708-1182-ND	403.31	—	—	13170
Insertion/Extraction Tool for 1A Contacts	708-1183-ND	8.31	—	—	13027
Insertion/Extraction Tool for 5A Contacts	708-1101-ND	8.31	—	—	13027/1
Crimp Positioner Tool for 5A Contacts	708-1105-ND	121.50	—	—	14025/5AMP
Crimp Tool for use with Positioners	708-1103-ND	737.30	—	—	14025

† Contacts not included, Order separately ‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

Buccaneer® Connectors

900 and EXP Series:

Features: • Dust and waterproof to IP68 when mated • Field Termination – Screw terminations • Positive locating keyways • Easy assembly – No special tools required • Fits 13mm ~ 15mm cables

Electrical Specifications: • Contact Resistance: <10mΩ (initial) • Insulation Resistance: >10^6MΩ @ 500VDC • Dielectric Strength: 2.2kVAC minimum • AC Breakdown voltage: 6kV • 900 Series Operating Temperature Range: -40°C ~ 85°C • EXP Series Ambient Temperature Range: -20°C ~ 55°C

Material Specifications: • Body Mouldings: Polyamide • Flammability Rating: UL94V-0 • UV Resistance: To EN50021: 1999 • Contacts: Machined solid brass, Nickel plated • O-Rings: Nitrile • Panel Sealing Gasket: Silicone rubber

EXP Series Approvals: • ATEX approval for Zone 2 and Zone 22 applications • ATEX Certificate No: Baseefa09ATEX0232X

Fig. 1

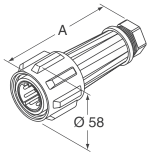

(Shown with pins)

Fig. 2

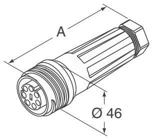

Fig. 3

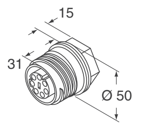

Fig. 4

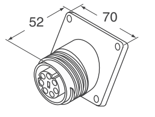

Fig. 5

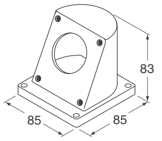

900 Series

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each			Bulgin Part No.
				1	25	50	
Plug Connectors with Pins							
1	2	127	708-1184-ND	20.09	18.45	16.40	PX0911/02/P
	3	127	708-1185-ND	22.38	20.55	18.27	PX0911/03/P
	4	127	708-1186-ND	24.61	22.60	20.09	PX0911/04/P
	5	127	708-1187-ND	26.95	24.75	22.00	PX0911/05/P
	7	127	708-1374-ND	37.64	34.57	30.73	PX0911/07/P
	7	146	708-1188-ND†	41.28	37.91	33.70	PXA911/07/P
	10	127	708-1376-ND	39.65	36.41	32.34	PX0911/10/P
	10	146	708-1389-ND†	45.55	41.84	37.14	PXA911/10/P
Plug Connectors with Sockets							
1	2	127	708-1189-ND	21.24	19.50	17.34	PX0911/02/S
	3	127	708-1190-ND	23.99	22.03	19.58	PX0911/03/S
	4	127	708-1191-ND	26.79	24.60	21.87	PX0911/04/S
	5	127	708-1192-ND	29.54	27.13	24.12	PX0911/05/S
	7	127	708-1375-ND	40.76	37.43	33.27	PX0911/07/S
	7	146	708-1193-ND†	44.39	40.77	36.24	PXA911/07/S
	10	127	708-1377-ND	41.86	38.45	34.15	PX0911/10/S
	10	146	708-1390-ND†	48.09	44.00	39.23	PXA911/10/S
Receptacles with Pins							
2	2	127	708-1194-ND	15.52	14.26	12.67	PX0921/02/P
	3	127	708-1195-ND	17.81	16.36	14.54	PX0921/03/P
	4	127	708-1196-ND	20.09	18.45	16.40	PX0921/04/P
	5	127	708-1197-ND	22.38	20.55	18.27	PX0921/05/P
	7	127	708-1378-ND	33.23	30.52	27.13	PX0921/07/P
	7	146	708-1198-ND†	36.09	33.14	29.46	PXA921/07/P
	10	127	708-1380-ND	35.00	32.14	28.54	PX0921/10/P
	10	146	708-1391-ND†	40.22	36.94	32.80	PXA921/10/P
Receptacles with Sockets							
2	2	127	708-1199-ND	16.67	15.31	13.61	PX0921/02/S
	3	127	708-1200-ND	19.42	17.83	15.85	PX0921/03/S
	4	127	708-1201-ND	22.22	20.41	18.14	PX0921/04/S
	5	127	708-1202-ND	24.97	22.94	20.39	PX0921/05/S
	7	127	708-1379-ND	36.35	33.38	29.67	PX0921/07/S
	7	146	708-1203-ND†	39.20	36.00	32.00	PXA921/07/S
	10	127	708-1381-ND	37.21	34.18	30.35	PX0921/10/S
	10	146	708-1392-ND†	42.76	39.26	34.87	PXA921/10/S

† Fits Larger Cables, 20mm ~ 22mm

(Continued)

BULGIN

Buccaneer® Connectors 900 Series *(Cont.)*

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Panel Mount Connectors with Pins							
3	2	—	708-1204-ND	13.14	12.06	10.72	PX0931/02/P
	3	—	708-1205-ND	15.47	14.21	12.63	PX0931/03/P
	4	—	708-1206-ND	17.71	16.26	14.45	PX0931/04/P
	5	—	708-1207-ND	20.04	18.41	16.36	PX0931/05/P
	7	—	708-1208-ND	30.89	28.37	25.22	PX0931/07/P
	10	—	708-1382-ND	32.98	30.29	26.90	PX0931/10/P
Panel Mount Connectors with Sockets							
3	2	—	708-1209-ND	14.33	13.16	11.70	PX0931/02/S
	3	—	708-1210-ND	17.08	15.69	13.94	PX0931/03/S
	4	—	708-1211-ND	19.83	18.22	16.19	PX0931/04/S
	5	—	708-1212-ND	22.64	20.79	18.48	PX0931/05/S
	7	—	708-1213-ND	34.01	31.23	27.76	PX0931/07/S
	10	—	708-1383-ND	35.20	32.33	28.70	PX0931/10/S
Flange Mount Connectors with Pins							
4	2	—	708-1214-ND	24.30	22.32	19.84	PX0941/02/P
	3	—	708-1215-ND	26.58	24.41	21.70	PX0941/03/P
	4	—	708-1216-ND	28.92	26.56	23.61	PX0941/04/P
	5	—	708-1217-ND	31.15	28.61	25.43	PX0941/05/P
	7	—	708-1218-ND	41.80	38.39	34.12	PX0941/07/P
	10	—	708-1384-ND	41.14	37.79	33.56	PX0941/10/P
Flange Mount Connectors with Sockets							
4	2	—	708-1219-ND	25.44	23.37	20.77	PX0941/02/S
	3	—	708-1220-ND	28.19	25.89	23.02	PX0941/03/S
	4	—	708-1221-ND	31.00	28.47	25.30	PX0941/04/S
	5	—	708-1222-ND	33.75	30.99	27.55	PX0941/05/S
	7	—	708-1223-ND	45.17	41.49	36.88	PX0941/07/S
	10	—	708-1385-ND	43.37	39.82	35.37	PX0941/10/S

† Fits Larger Cables, 20mm ~ 22mm

Accessories

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
5	Bulkhead Adapter for use with Flange Mount Connectors	708-1224-ND	21.18	19.46	17.29	PX0950
—	Sealing Cap for PX0911 and PXA911	708-1225-ND	3.17	2.91	2.59	PX0960
	Sealing Cap for PX0921, PXA921, PX0931, and PX0941	708-1226-ND	5.82	5.34	4.75	PX0970
	Heavy Duty Sealing Cap for PX0911 and PXA911	708-1386-ND	13.95	12.95	11.47	PX0990
	Heavy Duty Sealing Cap for PX0921 and PXA921	708-1387-ND	14.61	13.56	12.00	PX0991
	Heavy Duty Sealing Cap for PX0931 and PX0941	708-1388-ND	16.48	15.29	13.53	PX0992
	Cable Glands for PX0911 and PX0921, 1 each of 11~13, 9~11 and 7~9mm Diameter	708-1227-ND	2.34	2.15	1.91	PX0980
	Cable Glands for PXA911 and PXA921, 1 each of 18~20, 16~18, 14~16mm Diameter	708-1228-ND	2.34	2.15	1.91	PXA980

NEW! EXP Series

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Plug Connectors with Pins							
1	2	127	708-1461-ND	27.58	24.54	21.51	EXP-0911/02/P
	3	127	708-1463-ND	30.70	27.32	23.95	EXP-0911/03/P
	4	127	708-1465-ND	33.83	30.10	26.38	EXP-0911/04/P
	5	127	708-1467-ND	37.04	32.96	28.89	EXP-0911/05/P
	7	127	708-1469-ND	51.77	46.07	40.38	EXP-0911/07/P
	10	127	708-1471-ND	56.67	50.44	44.21	EXP-0911/10/P
Plug Connectors with Sockets							
1	2	127	708-1462-ND	29.10	25.89	22.69	EXP-0911/02/S
	3	127	708-1464-ND	32.93	29.31	25.69	EXP-0911/03/S
	4	127	708-1466-ND	36.77	32.73	28.68	EXP-0911/04/S
	5	127	708-1468-ND	40.61	36.14	31.67	EXP-0911/05/S
	7	127	708-1470-ND	56.23	50.04	43.86	EXP-0911/07/S
	10	127	708-1472-ND	60.24	53.62	46.99	EXP-0911/10/S
Receptacles with Pins							
2	2	127	708-1473-ND	21.33	18.98	16.64	EXP-0921/02/P
	3	127	708-1475-ND	24.54	21.84	19.14	EXP-0921/03/P
	4	127	708-1477-ND	27.67	24.62	21.58	EXP-0921/04/P
	5	127	708-1479-ND	30.79	27.40	24.02	EXP-0921/05/P
	7	127	708-1481-ND	45.61	40.59	35.57	EXP-0921/07/P
	10	127	708-1483-ND	50.43	44.88	39.33	EXP-0921/10/P
Receptacles with Sockets							
2	2	127	708-1474-ND	22.94	20.41	17.89	EXP-0921/02/S
	3	127	708-1476-ND	26.69	23.75	20.81	EXP-0921/03/S
	4	127	708-1478-ND	30.61	27.25	23.88	EXP-0921/04/S
	5	127	708-1480-ND	34.36	30.58	26.80	EXP-0921/05/S
	7	127	708-1482-ND	49.98	44.48	38.98	EXP-0921/07/S
	10	127	708-1484-ND	54.00	48.06	42.12	EXP-0921/10/S
Jam Nut Connectors with Pins							
3	2	—	708-1485-ND	18.12	16.12	14.13	EXP-0931/02/P
	3	—	708-1487-ND	21.15	18.83	16.50	EXP-0931/03/P
	4	—	708-1489-ND	24.37	21.69	19.00	EXP-0931/04/P
	5	—	708-1491-ND	27.49	24.47	21.44	EXP-0931/05/P
	7	—	708-1493-ND	42.39	37.73	33.07	EXP-0931/07/P
	10	—	708-1495-ND	47.75	42.50	37.24	EXP-0931/10/P
Jam Nut Connectors with Sockets							
3	2	—	708-1486-ND	19.64	17.48	15.32	EXP-0921/02/S
	3	—	708-1488-ND	23.47	20.89	18.31	EXP-0921/03/S
	4	—	708-1490-ND	27.31	24.31	21.30	EXP-0921/04/S
	5	—	708-1492-ND	31.15	27.72	24.30	EXP-0921/05/S
	7	—	708-1494-ND	46.86	41.70	36.55	EXP-0921/07/S
	10	—	708-1496-ND	51.32	45.67	40.03	EXP-0921/10/S
Box Mount Connectors with Pins							
4	2	—	708-1497-ND	33.47	29.79	26.11	EXP-0941/02/P
	3	—	708-1499-ND	36.59	32.57	28.54	EXP-0941/03/P
	4	—	708-1501-ND	39.72	35.35	30.98	EXP-0941/04/P
	5	—	708-1503-ND	42.75	38.05	33.35	EXP-0941/05/P
	7	—	708-1505-ND	57.66	51.31	44.97	EXP-0941/07/P
	10	—	708-1507-ND	62.21	55.36	48.52	EXP-0941/10/P
Box Mount Connectors with Sockets							
4	2	—	708-1498-ND	34.99	31.14	27.29	EXP-0941/02/S
	3	—	708-1500-ND	38.82	34.55	30.28	EXP-0941/03/S
	4	—	708-1502-ND	42.57	37.89	33.21	EXP-0941/04/S
	5	—	708-1504-ND	46.32	41.23	36.13	EXP-0941/05/S
	7	—	708-1506-ND	62.03	55.21	48.38	EXP-0941/07/S
	10	—	708-1508-ND	65.78	58.54	51.31	EXP-0941/10/S

NEW! Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Cable Glands for EXP-0911 and EXP-0921, 1 each of 11~13 mm, 9~11 and 7~9mm diameter	708-1509-ND	3.57	3.18	2.78	EXP-0980
Heavy Duty Sealing Cap for EXP-0911/xx/x	708-1510-ND	16.60	14.77	12.95	EXP-0990
Heavy Duty Sealing Cap for EXP-0921/xx/x	708-1511-ND	17.31	15.41	13.51	EXP-0991
Heavy Duty Sealing Cap for EXP-0931 and EXP-0941	708-1512-ND	18.92	16.84	14.76	EXP-0992

Mini Buccaneer® Connectors

Features: • Water and dust proof to IP68 when mated • Positive locating keyways • Flammability: UL94V-0 **Electrical Specifications:** • Current Rating: Solder/Crimp Terminals: 5A/380VAC 3,8 position; Screw Terminals: 10A/250VAC 2,3 position; 6A/250VAC 4 position; 3A/250VAC 6 position • Contact Resistance: <5mΩ • Insulation Resistance: >10^{6}MΩ @ 500VDC • Voltage Proof: 2kV @ 50Hz • Operating Temperature Range: -20°C ~ 70°C **Material Specifications:** • Body Moulding: Polyamide • Inserts: Polyamide • Contacts: Solder/Crimp Terminals: Copper alloy, Gold plated 0.1µm on nickel; Screw Terminals: Brass, Nickel plated • O-Rings (Solder/Crimp Terminals): Nitrile

Dim. in mm

Fig. 1

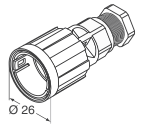

Fig. 2

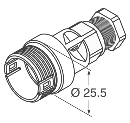

Fig. 3

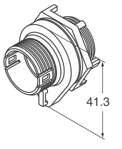

Fig. 4

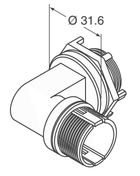

Fig. 5

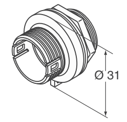

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Cable Connectors — Fits 5mm ~ 7mm Cable, Inserts Sold Separately						
1	Flex Connector	708-1238-ND	5.09	4.49	4.15	PX0800
2	In-Line Flex Connector	708-1239-ND	4.67	4.15	3.86	PX0801
3	Panel Mount Connector	708-1240-ND	4.35	3.86	3.51	PX0802
4	Right Angle Panel Mount Connector	708-1241-ND	4.67	4.15	3.77	PX0803
5	Panel Mount Connector, with Sealing Cap and Retaining Clip	708-1242-ND	4.67	4.15	3.77	PX0805
Inserts, Contacts, Sealing Caps, Tools						
	2 Position Screw Terminal Socket Insert	708-1243-ND	5.04	4.63	4.11	SA3319
	3 Position Screw Terminal Socket Insert	708-1244-ND	9.14	8.39	7.46	SA3229
	4 Position Screw Terminal Socket Insert	708-1245-ND	9.29	8.54	7.59	SA3242
	6 Position Screw Terminal Socket Insert	708-1246-ND	10.07	9.25	8.22	SA3244
	2 Position Screw Terminal Pin Insert	708-1247-ND	6.54	6.01	5.34	SA3320
	3 Position Screw Terminal Pin Insert	708-1248-ND	5.30	4.86	4.32	SA3230
	4 Position Screw Terminal Pin Insert	708-1249-ND	6.65	6.10	5.43	SA3241
	6 Position Screw Terminal Pin Insert	708-1250-ND	7.37	6.77	6.02	SA3243
	3 Position Pin Carrier Insert, Solder Black	708-1254-ND	.80	.73	.65	12734/3/1
	3 Position Socket Carrier Insert, Solder Black	708-1255-ND	.89	.82	.73	12735/3/1
	8 Position Pin Carrier Insert, Solder Black	708-1252-ND	.80	.73	.65	12734/1
	8 Position Socket Carrier Insert, Solder Black	708-1253-ND	.89	.82	.73	12735/1
	3 Position Pin Carrier Insert, Crimp Grey	708-1257-ND	.80	.73	.65	12734/3
	3 Position Socket Carrier Insert, Crimp Grey	708-1258-ND	.89	.82	.73	12735/3
	8 Position Pin Carrier Insert, Crimp Grey	708-1251-ND	.80	.73	.65	12734
	8 Position Socket Carrier Insert, Crimp Grey	708-1256-ND	.89	.82	.73	12735
	Crimp Pins	708-1264-ND‡	2.23	2.05	1.82	SA3148
	Crimp Sockets	708-1265-ND‡	3.89	3.58	3.18	SA3149
	Solder Pins	708-1259-ND‡	2.23	2.05	1.82	SA3148/1
	Solder Sockets	708-1260-ND‡	3.89	3.58	3.18	SA3149/1
	Polarizing/Blanking Pins	708-1261-ND‡	1.09	1.00	.89	SA3147
	Sealing Cap, Fits PX0801, 02, 03, 05	708-1266-ND	1.56	1.43	1.27	PX0810
	Sealing Cap, Fits PX0800	708-1267-ND	1.56	1.43	1.27	PX0811
	Contact Insertion Tool	708-1262-ND	28.30	—	—	SA3150
	Hand Crimping Tool	708-1263-ND	415.38	—	—	SA2800

‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

EMERSON Network Power

Plugs and Jacks

RoHS COMPLIANT

Johnson Connectivity Solutions

Fig. 1

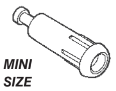

Fig. 2

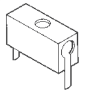

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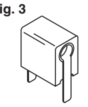

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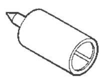

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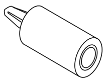

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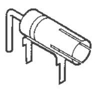

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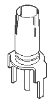

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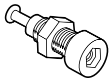

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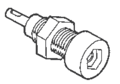

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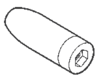

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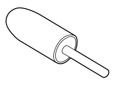

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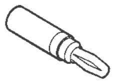

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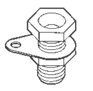

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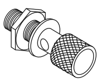

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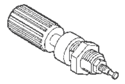

Fig. 16

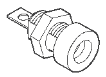

Fig. 17

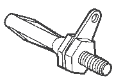

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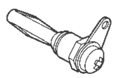

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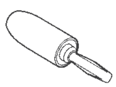

Fig. 20

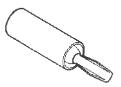

Fig. 21

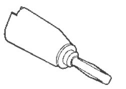

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Jacks – for Standard Tip Plug: 2.03mm									
1	White	J330-ND	1.27	11.33	89.68	188.80	354.00	613.60	105-1041-001
	Red	J124-ND	1.27	11.33	89.68	188.80	354.00	613.60	105-1042-001
	Black	J125-ND	1.27	11.33	89.68	188.80	354.00	613.60	105-1043-001
	Green	J331-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1044-001
	Yellow	J333-ND	1.27	11.33	89.68	188.80	354.00	613.60	105-1047-001
Horizontal Test Jacks – for Standard Tip Plug: 2.03mm									
2	White	J108-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0751-001
	Red	J109-ND*	.46	4.06	32.11	67.60	126.75	219.70	105-0752-001
	Black	J110-ND*	.46	4.06	32.11	67.60	126.75	219.70	105-0753-001
	Green	J111-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0754-001
	Orange	J112-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0756-001
	Yellow	J113-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0757-001
	Brown	J114-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0758-001
	Blue	J115-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0760-001
	Violet	J116-ND	.46	4.06	32.11	67.60	126.75	219.70	105-0762-001
Horizontal Insulated Miniature Test Jacks – for Standard Tip Plug: 2.03mm									
3	White	J575-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1101-001
	Red	J576-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1102-001
	Black	J577-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1103-001
	Green	J578-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1104-001
	Yellow	J579-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1107-001
	Blue	J580-ND	.45	3.96	31.35	66.00	123.75	214.50	105-1110-001
Vertical Test Jacks – for Standard Tip Plug: 2.03mm									
4	White	J119-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0851-001
	Red	J120-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0852-001
	Black	J121-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0853-001
	Green	J122-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0854-001
	Yellow	J123-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0857-001
	Blue	J312-ND	.69	6.14	48.64	102.40	192.00	332.80	105-0860-001
Vertical Insulated Formed Contact Test Jacks – for Standard Tip Plug: 2.03mm									
5	White	J581-ND	.62	5.54	43.89	92.40	173.25	300.30	105-2201-201
	Red	J582-ND	.62	5.54	43.89	92.40	173.25	300.30	105-2202-201
	Black	J583-ND	.62	5.54	43.89	92.40	173.25	300.30	105-2203-201
	Green	J584-ND	.62	5.54	43.89	92.40	173.25	300.30	105-2204-201
	Yellow	J585-ND	.62	5.54	43.89	92.40	173.25	300.30	105-2207-201
Shielded Test Jack – Horizontal									
6	Tin	J463-ND	4.97	44.14	349.41	735.60	1379.25	2390.70	129-0701-301
	Gold	J571-ND	5.93	52.68	417.05	878.00	1646.25	2853.50	129-0701-302
Shielded Test Jack – Vertical									
7	Tin	J462-ND	5.39	47.90	379.24	798.40	1497.00	2594.80	129-0701-201
	Gold	J570-ND	4.74	42.12	333.45	702.00	1316.25	2281.50	129-0701-202

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Jacks – Insulated Deluxe: 2.00mm									
8	White	J105-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0601-001
	Red	J106-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0602-001
	Black	J107-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0603-001
	Green	J337-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0604-001
	Yellow	J338-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0607-001
	Blue	J339-ND	1.33	11.86	93.86	197.60	370.50	642.20	105-0610-001
Tip Jacks – Insulated Standard Type: 2.00mm									
9	White	J320-ND	.77	6.84	54.15	114.00	213.75	370.50	105-0801-001
	Red	J117-ND*	.77	6.84	54.15	114.00	213.75	370.50	105-0802-001
	Black	J118-ND*	.77	6.84	54.15	114.00	213.75	370.50	105-0803-001
	Green	J321-ND	.77	6.84	54.15	114.00	213.75	370.50	105-0804-001
	Yellow	J323-ND	.77	6.84	54.15	114.00	213.75	370.50	105-0807-001
	Blue	J325-ND	.77	6.84	54.15	114.00	213.75	370.50	105-0810-001
Tip Jacks with Sleeve Assembly: 2.00mm									
10	Red	J451-ND	1.59	14.11	111.72	235.20	441.00	764.40	105-0702-001
	Black	J452-ND	1.59	14.11	111.72	235.20	441.00	764.40	105-0703-001
Tip Plugs – Insulated Solderless Type: 2.00mm									
11	White	J300-ND	.93	8.23	65.17	137.20	257.25	445.90	105-0301-001
	Red	J103-ND*	.93	8.23	65.17	137.20	257.25	445.90	105-0302-001
	Black	J104-ND*	.93	8.23	65.17	137.20	257.25	445.90	105-0303-001
	Green	J301-ND	.93	8.23	65.17	137.20	257.25	445.90	105-0304-001
	Blue	J305-ND	.93	8.23	65.17	137.20	257.25	445.90	105-0310-001
Miniature Banana Plugs – Insulated Solder Type: 2.64mm									
12	Red	J457-ND	1.84	16.34	129.39	272.40	510.75	885.30	108-1002-001
	Black	J458-ND	1.84	16.34	129.39	272.40	510.75	885.30	108-1003-001
Banana Jack – for Standard Banana Plug 4.44mm Across Flats									
13	—	J147-ND*	1.48	13.13	103.93	218.80	410.25	711.10	108-0740-001
Uninsulated w/Knurled Thumb Nut for Standard Banana Plug 4.44mm Across Flats									
14	—	J587-ND	2.85	25.32	200.45	422.00	791.25	1371.50	111-2223-001
Binding Posts – Insulated Standard: 4.44mm									
15	White	J370-ND	2.40	21.31	168.72	355.20	666.00	1154.40	111-0101-001
	Red	J164-ND*	2.40	21.31	168.72	355.20	666.00	1154.40	111-0102-001
	Black	J165-ND*	2.40	21.31	168.72	355.20	666.00	1154.40	111-0103-001
	Green	J371-ND	2.59	22.99	182.02	383.20	718.50	1245.40	111-0104-001
	Yellow	J372-ND	2.40	21.31	168.72	355.20	666.00	1154.40	111-0107-001
Banana Jacks – Insulated Solder Terminal: 4.44mm									
16	White	J150-ND*	.59	5.26	41.61	87.60	164.25	284.70	108-0901-001
	Red	J151-ND*	.59	5.26	41.61	87.60	164.25	284.70	108-0902-001
	Black	J152-ND*	.59	5.26	41.61	87.60	164.25	284.70	108-0903-001
	Green	J153-ND	.66	5.83	46.17	97.20	182.25	315.90	108-0904-001
	Orange	J356-ND	.59	5.26	41.61	87.60	164.25	284.70	108-0906-001
	Yellow	J154-ND	.59	5.26	41.61	87.60	164.25	284.70	108-0907-001
	Brown	J357-ND	.66	5.83	46.17	97.20	182.25	315.90	108-0908-001
	Blue	J155-ND	.59	5.26	41.61	87.60	164.25	284.70	108-0910-001
	Violet	J358-ND	.66	5.83	46.17	97.20	182.25	315.90	108-0912-001
	Gray	J359-ND	.59	5.26	41.61	87.60	164.25	284.70	108-0913-001
Banana Plug – Uninsulated Panel Mount Threaded Stud: 4.23mm									
17	—	J148-ND	1.56	13.90	110.01	231.60	434.25	752.70	108-0750-001
Banana Plug – Uninsulated Panel Mount Screw Type: 4.23mm									
18	—	J149-ND	1.34	11.95	94.62	199.20	373.50	647.40	108-0753-001
Banana Plugs – Insulated Solderless Tapered Handle: 4.23mm									
19	White	J144-ND*	1.25	11.11	87.97	185.20	347.25	601.90	108-0301-001
	Red	J145-ND*	1.25	11.11	87.97	185.20	347.25	601.90	108-0302-001
	Black	J146-ND*	1.25	11.11	87.97	185.20	347.25	601.90	108-0303-001
	Green	J340-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0304-001
	Orange	J341-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0306-001
	Yellow	J342-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0307-001
	Brown	J343-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0308-001
	Blue	J344-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0310-001
	Violet	J345-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0312-001
	Gray	J346-ND	1.25	11.11	87.97	185.20	347.25	601.90	108-0313-001
Banana Plugs – Insulated Round Body Solder Stud: 4.23mm									
20	Red	J156-ND	2.51	22.32	176.70	372.00	697.50	1209.00	108-1722-101
	Black	J157-ND	2.51	22.32	176.70	372.00	697.50	1209.00	108-1723-101
Banana Plugs – Insulated Round Body Solderless: 4.23mm									
20	Red	J158-ND	1.91	16.97	134.33	282.80	530.25	919.10	108-1722-103
	Black	J159-ND	1.91	16.97	134.33	282.80	530.25	919.10	108-1723-103
Banana Plugs – Insulated Stacking Single Type: 4.23mm									
21	White	J459-ND	2.08	18.48	146.30	308.00	577.50	1001.00	108-1081-001
	Red	J460-ND	2.08	18.48	146.30	308.00	577.50	1001.00	108-1082-001
	Black	J461-ND	2.08	18.48	146.30	308.00	577.50	1001.00	108-1083-001

J100-KIT-ND ***Digi-Key® Plug & Jack Kit*** Contains 10 each of the plugs or jacks as denoted (*****) on chart. Price includes compartment divided plastic box for easy storage and quick access.................... **$69.95**

NEW! Waterproof Circular Connectors - JB1 Series

Features: • Compact circular connector for EMI protection • Waterproof when mated in accordance with IP67 specification
Specifications: • Current Rating: 3A per contact • Rated Voltage: Less than 300VACr.m.s. • Dielectric Withstanding Voltage: 900VACr.m.s. • Operating Temperature: -30°C ~ 85°C • Applicable Wire Size: 22 ~ 28 AWG
Materials and Finishes: • Housing: Synthetic resin • Shell: Zinc alloy (Nickel plated) • End Bell: Aluminum alloy (Nickel plated) • Ground Nut: Zinc alloy (Nickel plated) • O-Ring: Nitrile rubber • Bushing: Nitrile rubber, ethylene propylene rubber • Contact: Copper alloy (Gold plated)

Dimensions in mm

Fig. 1 — Plug

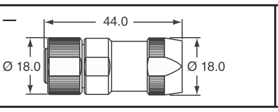

Fig. 2 — Receptacle

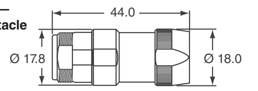

Fig.	Number of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
		Plug				
1	5	670-2134-ND	25.96	19.47	18.18	JB1DB05PL2
	5	670-2135-ND	25.96	19.47	18.18	JB1DB05PL5
	10	670-2136-ND	27.20	20.40	19.04	JB1DB10PL2
	10	670-2137-ND	27.20	20.40	19.04	JB1DB10PL6
		Receptacle				
2	3	670-2138-ND	24.74	18.56	17.32	JB1HB03SL5
	5	670-2132-ND	25.96	19.47	18.18	JB1HB05SL2
	5	670-2140-ND	25.96	19.47	18.18	JB1HB05SL5
	10	670-2139-ND	27.20	20.40	19.04	JB1HB10SL2

Waterproof Circular Connectors - JB5 Series

Features: • Waterproof/Dustproof of protection class IP68 prevents penetration of water, oil and dust • Waterproof Receptacle (when mated and receptacle itself) • Push-pull mating structure enables easy one-handed insertion and removal • Audible and tangible "click" confirm secure locking when mating • Metal outer parts and ground terminal installed in receptacle ensure shield effect
Specifications: • Rated Current: 3 position = 3A per contact; 4 ~ 8 position = 2A per contact • Rated Voltage: 200 VAC r.m.s. • Dielectric Withstanding Voltage: 750 VAC r.m.s per minute • Insulation Resistance: 1000 MΩ min. • Contact Resistance: 50mΩ max. • Operating Temperature: -55°C ~ 85°C • Applicable Wire Size: 22 ~ 28 AWG • Waterproof: IP68 Protection Level
Materials and Finishes: • Socket Contact (Receptacle): Copper Alloy/ Gold plating over Nickel • Shell: Copper Alloy/ Chrome plating over Copper • Insulator: Glass filled Nylon • Assembly nut: Copper Alloy/ Chrome plating over Copper • Gasket: Silicon rubber • "O"Ring: Nitrile rubber • Ground pin: Copper Alloy/ Tin plating • Dust cap: EPDM rubber • Pin contact (Plug): Copper Alloy/ Gold plating over Nickel • Barrel: Zinc Alloy/ Nickel plating over Copper • Insulator: Glass Filled Nylon • Coupling nut: Zinc Alloy/ Chrome plating over Copper • Spacer: Copper Alloy/ Nickel plating • Lock Spring: Copper Alloy/ Nickel plating over Copper • Shield sleeve: Copper Alloy/ Nickel plating • Bushing: EPDM rubber • Ground nut: Copper Alloy/ Chrome plating over Copper • Clamp: Copper Alloy/ Nickel plating • Boots: Polyester elastomer • Outer boots clamp: Polyacetal

Dimensions in mm

Fig. 1 — Jam Nut Receptacle

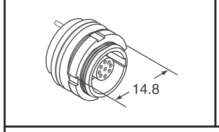

Fig. 2 — Plug

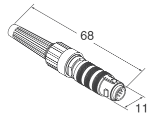

Fig. 3 ***NEW!***

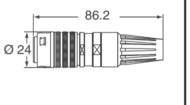

Fig. 4 — Cable Receptacle

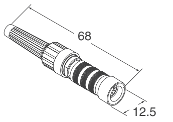

Fig. 5 — Box Mount Receptacle ***NEW!***

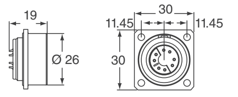

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
		Jam Nut Receptacle - Dip				
1	3	670-1028-ND	22.30	16.73	15.61	JB5CS03AL00N
	4	670-1030-ND	22.30	16.73	15.61	JB5CS04AM00N
	5	670-1032-ND	23.38	17.54	16.37	JB5CS05AM00N
	8	670-1036-ND	27.50	20.63	19.25	JB5CS08AN00
—	Dust Cap	670-2232-ND ***NEW!***	108.26	89.16	84.70	JB5AX-DC-1
		Jam Nut Receptacle - Solder Cup				
1	3	670-1029-ND	22.30	16.73	15.61	JB5CS03FL00N
	4	670-1031-ND	22.30	16.73	15.61	JB5CS04FM00N
	5	670-1033-ND	23.38	17.54	16.37	JB5CS05FM00N
	8	670-1037-ND ***NEW!***	27.50	20.63	19.25	JB5CS08FN00
	8	670-1045-ND	33.44	25.08	23.41	JB5CT08XN0010
		Plug - Solder Cup				
2	3	670-1038-ND	35.86	26.90	25.11	JB5DS03ML11N
	4	670-1039-ND	35.86	26.90	25.11	JB5DS04MM11N
	5	670-1040-ND	36.84	27.63	25.79	JB5DS05MM11N
	6	670-1041-ND	39.20	29.40	27.44	JB5DS06MN11N
	8	670-1046-ND	63.84	52.90	48.52	JB5DT08YN1210
3	8	670-2234-ND ***NEW!***	177.89	146.50	139.18	JB5DX08YL3130
		Cable Receptacle				
4	4	670-1043-ND	41.05	32.18	31.07	JB5HS04FM11N
	8	670-1044-ND	48.17	37.76	36.46	JB5HS08FN11
		NEW! Box Mount Receptacle NEW!				
5	8	670-2233-ND	88.70	71.46	65.55	JB5AX08YL3030

NEW! JL04V Series Connectors

JL04V Series are highly reliable circular connectors (wire soldering type) approved by TÜV as connectors satisfying European safety standards and by United Stated standards. They feature IP67 class water and dust proof (in the mated condition) structure, and a protective earth circuit with first-to-make, last-to-break grounding contacts. They are ideal for use in machine tools, servomotors, robots, and other industrial machines.

Specifications:

• Current Rating (Per contact): Contact size: #4: 80A max., #8: 46A max., #12: 23A max., #16: 13A max. • Dielectric Withstanding Voltage: 2000VACr.m.s. (for one minute) with the rated current of 500VAC: 3000VACr.m.s. (for one minute) • Insulation resistance: 1000MΩ min. (5000MΩ min. for 28~11) • Operating Temperature: -55°C ~ 125°C • Durability: 500 cycles

Materials and Finishes:

• Shell: Aluminum Alloy/ Zinc plating (black) • Insulator: Synthetic Resin/ Black (Front part of receptacle is Silicone rubber. Synthetic resin for contact arrangements 28-11 only) • Contact: Copper Alloy/ Silver plating • Gasket: Synthetic rubber • Retaining Ring: Copper Alloy/ Zinc plating (OD chromate) • Endbell Fixing Screw: Steel/ Zinc plating • Ground Pin/ Screw: Copper Alloy/ Nickel plating

Note: JL04 Series is not TÜV certified.

Fig. 1 — Cable Crimp

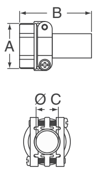

Fig. 2 — Plug

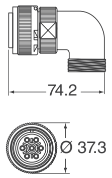

Fig. 3 — Plug

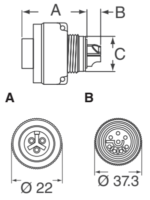

Fig. 4 — Plug

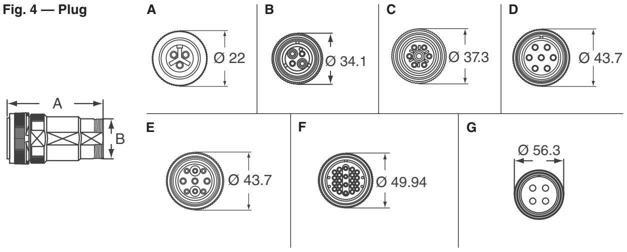

Fig. 5 — Receptacle

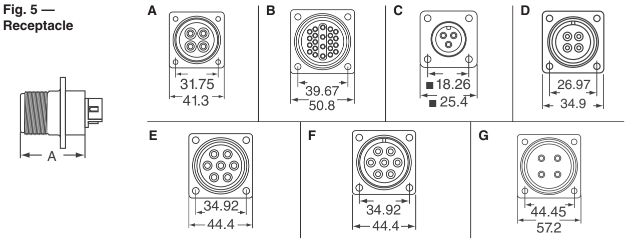

Fig.	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
					Cable Crimp				
1	—	30.2	53.8	14.1	670-2146-ND	11.78	8.01	7.07	JL04-18CK(13)-CR-R
	—	30.2	53.8	14.1	670-2147-ND	10.60	7.54	6.83	JL04-18CK(13)-R
	—	34.9	53.8	9.5	670-2141-ND	19.94	14.18	12.85	JL04-2022CK(09)-R
	—	34.9	53.8	13	670-2130-ND	17.39	12.37	11.21	JL04-2022CK(12)-CR-R
	—	34.9	53.8	16	670-2122-ND	17.39	12.37	11.21	JL04-2022CK(14)-CR-R
	—	42.1	56.2	21	670-2115-ND	19.26	13.70	12.42	JL04-2428CK(20)-CR-R
					Plug				
2	20	—	—	—	670-2112-ND	54.76	44.11	40.46	JL04V-8A20-15SE-EB-R
3A	10	23.54	4.81	ø12.5	670-2242-ND	20.59	14.64	13.27	JL04V-6A10SL-3SE-R
3B	20	31.5	5.7	ø27	670-2126-ND	50.10	37.58	35.07	JL04V-6A20-7SE-R
4A	10	44.1	ø15.77	—	670-2241-ND	30.72	23.04	21.51	JL04V-6A10SL-3SE-EB-R
4B	18	57.4	ø25	—	670-2124-ND	33.64	25.23	23.55	JL04V-6A18-10SE-EB-R
4C	20	58.5	ø29.72	—	670-2125-ND	50.51	40.69	37.32	JL04V-6A20-15SE-EB-R
4D	24	71	ø36.4	—	670-2243-ND	85.25	68.68	62.99	JL04V-6A24-10SE-EB-R
4E	24	71	ø36.4	—	670-2127-ND	60.97	49.12	45.05	JL04V-6A24-11SE-EB-R
4F	28	71	—	—	670-2128-ND	54.99	44.30	40.64	JL04V-6A28-11PE-EB-R
4G	32	105.9	ø44	—	670-2244-ND	245.76	215.04	204.29	JL04V-6A32-17SE-EB-R
					Receptacle				
5A	22	30.85	—	—	670-2117-ND	30.64	22.98	21.45	JL04HV-2E22-22PE-B-R
5B	28	32.7	—	—	670-2118-ND	51.94	38.96	36.36	JL04V-2A28-11SE-R

(Continued)

JAE NEW! JL04V Series Connectors *(Cont.)*

Fig.	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
5B	28	32.7	—	—	670-2119-ND	51.70	41.65	38.20	JL04V-2A28-11SEZ-R
5C	10	23.4	—	—	670-2240-ND	12.53	8.92	8.08	JL04V-2E10SL-3PE-B-R
5D	18	30	—	—	670-2113-ND	20.00	14.23	12.90	JL04V-2E18-10PE-B-R
5E	24	32.45	—	—	670-2121-ND	38.56	28.92	27.00	JL04V-2E24-10PE(G)-B-R
5F	24	32.45	—	—	670-2120-ND	38.56	28.92	27.00	JL04V-2E24-10PE-B-R
5G	32	32.7	—	—	670-2123-ND	68.31	55.03	50.48	JL04V-2E32-17PE-B-R
—	End Bell				670-2114-ND	17.53	12.47	11.30	JL04-20EB-R
	End Bell				670-2129-ND	22.28	16.71	15.60	JL04-20EBL-R

NEW! JL05 Series Connectors

The JL05 Series connectors conforms to JISB6015 specifications. JL05 is a circular, waterproof connector using IP55F structure. There is a one-touch locking mechanism for ease in mating and unmating. With first-to-make/last-to-break contacts, you are ensured a good circuit protection. Their ideal applications are machining tools, servomotors, robots, and other industrial machines.

Features:

- Five insert guide keys for easy mating and unmating

Specifications:

- Rated Current (Per Contact): #20: 5A, #16: 13A, #12: 23A, #8: 46A • Rated Voltage: 13A AC/DCVr.m.s.
- Dielectric Withstanding Voltage: #20: 1,000ACVr.m.s., #16: 2,000ACVr.m.s., #12 ~ #8: 2,800ACVr.m.s.
- Insulation Resistance: 5,000MΩ min. waterproof when mated, 1,000MΩ min. single waterproof structure
- Operating Temperature: -55°C ~ 125°C

Materials and Finishes:

- Shell: Aluminum Zinc plating • Coupling Nut: Aluminum Olive Drab or Black • Insulator: Synthetic Resin (UL94V-0) • Front Insulator: Synthetic Rubber • Contact: Copper Alloy, Silver plating • O-Ring: Glass-filled Nylon (UL94V-0, Black) • Retaining Ring: Copper Alloy, Zinc plating • Stop Ring: Stainless Steel • Wave Spring: Stainless Steel • Earth Lug: Copper Alloy, Silver plating

Fig. 1

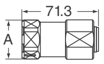

Fig. 2

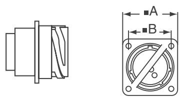

Fig. 3

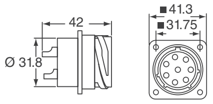

Fig. 4

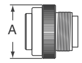

Fig.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	32	—	670-2074-ND	23.67	16.84	15.26	JL05-18EB3B-(11)-R
	36	—	670-2052-ND	46.78	35.09	32.75	JL05-20EB3B-(11)-R
	41	—	670-2072-ND	68.69	55.34	50.76	JL05-24EB3B-(13)-R
	47	—	670-2022-ND	49.56	37.17	34.70	JL05-28EB3B-(17)-R
			Receptacle				
2	35	26.97	670-2015-ND	15.01	10.68	9.68	JL05-2A18-1PC-F0-R
	35	26.97	670-2018-ND	15.30	10.88	9.86	JL05-2A18-11PC-F0-R
	35	26.97	670-2019-ND	16.40	11.67	10.58	JL05-2A18-11SC-F0-R
	38.1	29.36	670-2017-ND	17.82	12.68	11.49	JL05-2A20-29SC-F0-R
	38.1	29.36	670-2016-ND	17.82	12.68	11.49	JL05-2A20-29SCW-F0-R
	41.3	31.75	670-2412-ND	25.60	19.20	17.92	JL05-2A22-22PC-F0-R
	44.3	34.92	670-2413-ND	27.26	20.45	19.09	JL05-2A24-10SC-F0-R
	44.3	34.92	670-2023-ND	25.98	19.49	18.19	JL05-2A24-52ASCW-F0-R
	50.8	39.67	670-2020-ND	27.68	20.76	19.38	JL05-2A28-21SC-F0-R
3	—	—	670-2245-ND	35.70	26.78	24.99	JL05-2L22-23P-R
			Plug				
4	35.9	—	670-2031-ND	22.56	16.92	15.80	JL05-6A18-1PC-F0-R
	35.9	—	670-2033-ND	24.74	18.56	17.32	JL05-6A18-1SC-F0-R
	35.9	—	670-2024-ND	23.74	17.81	16.62	JL05-6A18-11PC-F0-R
	40.6	—	670-2032-ND	54.76	44.11	40.46	JL05-6A20-29P-R
	40.6	—	670-2013-ND	56.97	45.90	42.10	JL05-6A20-29S-R
	42.2	—	670-2029-ND	29.66	22.25	20.77	JL05-6A22-22SC-F0-R
	42.2	—	670-2414-ND	41.28	29.93	28.90	JL05-6A22-23SC-F0-R
	45.4	—	670-1788-ND	36.36	27.27	25.46	JL05-6A24-10PC-F0-R
	51.7	—	670-2030-ND	65.76	49.32	46.04	JL05-6A28-21PC-F0-R
	65.3	—	670-1786-ND	50.22	37.67	35.16	JL05-6A36-74SC-F0-R
			Contacts				
—	14 ~ 16 AWG Pin		670-2057-ND	1.10	.62	.50	ST-JL05-16P-C1-100
	16 ~ 20 AWG Pin		670-2420-ND	1.10	.62	.50	ST-JL05-16P-C2-100
	14 ~ 16 AWG Socket		670-2343-ND	1.26	.79	.64	ST-JL05-16S-C1-100
	16 ~ 20 AWG Socket		670-2421-ND	1.26	.71	.57	ST-JL05-16S-C2-100
	20 ~ 24 AWG Socket		670-2058-ND	1.26	.71	.57	ST-JL05-16S-C3-100
	18 ~ 22 AWG Pin		670-2059-ND	1.17	.59	.47	ST-JL05-20P-C1-100
	22 ~ 26 AWG Pin		670-2060-ND	1.17	.59	.47	ST-JL05-20P-C2-100
	18 ~ 22 AWG Socket		670-2061-ND	1.23	.62	.50	ST-JL05-20S-C1-100
	22 ~ 26 AWG Socket		670-2062-ND	1.23	.62	.50	ST-JL05-20S-C2-100
—	8 ~ 10 AWG Pin		670-2100-ND	3.40	2.38	2.18	CONT-JL05-08P-C1-10
	10 ~ 12 AWG Pin		670-2094-ND	3.40	2.38	2.18	CONT-JL05-08P-C2-10
	8 ~ 10 AWG Socket		670-1801-ND	54.32	43.77	40.14	CONT-JL05-08S-C1-10
	10 ~ 12 AWG Socket		670-1804-ND	54.32	43.77	40.14	CONT-JL05-08S-C2-10
	12 ~ 16 AWG Socket		670-1805-ND	10.53	7.16	6.32	CONT-JL05-12P-C1-10

NEW! MX5 Series

Features: • Mechanical lock assures positive mating • Double locking mechanism avoids contact dislodging

Specifications: • Contact Spacing: Signal: 3.0mm (.118"); Power: 3.5mm (.138") • Current Rating: Signal: 4A; Power: 8A per contact • Dielectric Withstanding Voltage: 1000VACr.m.s. (for one minute) • Insulation Resistance: 100MΩ min. • Contact Resistance: 5mΩ max. • Operating Temperature: -40°C ~ 85°C

Applicable Wire (Stranded): • Signal: #24 ~ #18AWG; Power: #22 ~ #16, #14AWG (AVSS)

Materials and Finishes: • Insulator: Glass-filled PBT • Socket Housing: PBT (green) • Contact: Pin: Brass; Socket: Phosphor Bronze; Finishes: Tin Plating or Gold (connecting area) with Solder (terminal area) Plating over Nickel

Fig. 1 — Receptacle

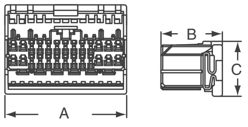

Fig. 2 — Plug

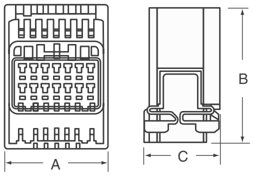

Fig.	No. of Positions	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
					Receptacle				
1	26	43.6	22	19.3	670-2012-ND	2.46	1.64	1.40	MX5-26S-C-G
	20	34.6	22	20.1	670-1796-ND	1.76	.99	.80	MX5-A-20S-C
					Plug				
2	14	27.1	35.5	20.2	670-2304-ND	4.77	2.95	2.55	MX5-A-14P-C
	20	37.8	35.5	20.2	670-2306-ND	3.10	1.88	1.60	MX5-A-20P-C
					Header				
—	14	—	—	—	670-2305-ND	.55	.28	.22	MX5-A-14P-L-B-C18
					Crimp Contacts				
—	Socket 14 ~ 16 AWG				670-2307-1-ND†	.33	.17	.13	MX5-PW-C0-4000
					670-2307-2-ND‡	355.33/4,000			MX5-PW-C0-4000
	Pin 20 ~ 16 AWG				670-2308-1-ND†	.24	.13	.11	MX5-PW-PC1-5500
					670-2308-2-ND‡	358.07/5,500			MX5-PW-PC1-5500
	Socket 20 ~ 18 AWG				670-2309-1-ND†	.20	.09	.08	MX5-SG-C1-5000
					670-2309-2-ND‡	204.40/5,000			MX5-SG-C1-5000
	Pin 24 ~ 20 AWG				670-2310-1-ND†	.20	.09	.08	MX5-SG-PC2-6000
					670-2310-2-ND‡	245.18/6,000			MX5-SG-PC2-6000

† Cut Tape ‡ Tape and Reel

MX19 Series

Features:

- Cable-to-cable (Relay) application • Compact, Waterproof • Mechanical lock system enabling complete mating with a click • Withstands vibration and tension • Terminals have a two-plate spring mechanism with long beam length, which results in a low force insertion and stress dispersion

Specifications:

- Contact Pitch: 2.5mm • Rated Current: 5A • Dielectric withstanding voltage: 1000 VACr.m.s. (1minute)
- Operating temperature range: -40°C ~ 85°C • Waterproof: Compliant with JIS D0203 S1 • Applicable wire size (cable type): CAVS: 0.3 ~ 0.5 mm^2, AVSS: 0.5 mm^2

Dimensions in mm

Fig. 1

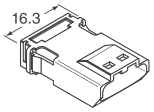

Fig. 2

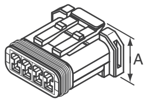

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			Pin Housings				
1	2	—	670-1673-ND	1.12	.63	.52	MX19002P51
	4	—	670-1675-ND	1.40	.79	.65	MX19004P51
	2	—	670-2001-ND ***NEW!***	2.92	1.65	1.32	MX19002P52
			Socket Housings				
2	2	9.25	670-1674-ND	1.84	1.04	.86	MX19002S51
	4	9.25	670-1676-ND	1.89	1.08	.95	MX19004S51
	2	7.65	670-2003-ND ***NEW!***	4.28	2.41	1.93	MX19002S52
			Pin Contacts				
—	—	—	670-1677-1-ND†	.22	.09	.08	MX19P10K451
	—	—	670-1677-2-ND‡	434.08/10,000			MX19P10K451
			Socket Contacts				
—	—	—	670-1678-1-ND†	.16	.08	.06	MX19S10K451
	—	—	670-1678-2-ND‡	396.87/10,000			MX19S10K451
			Tools				
Extraction Tool for MX19 Series			670-1672-ND	318.32	—	—	ET-MX19

† Cut Tape ‡ Tape and Reel

MX23A Series

The MX23A connector can be used for wide range water proof equipment including automobiles, motorcycles and so on. This connector has high environmental capability with waterproof structure by sealing in its mating area and by grommet in its wire crimping area for full protection against water. Reverse type pin connector (with pins facing up) is also available in consideration of mounting space

Features: • Low profiled type with board mounting height of 18.3 mm and socket connector height of 22.2mm maximum • Double fin structure is adopted for high reliability socket contact and a large chamfer is prepared in the front-edge side to prevent grommet from damage • Full water proof grommet is used for socket contact crimping area in order to reduce size • Water protection seal ring is used in connectors mating area

Specifications: • Contact pitch: 2.5mm • Rated Current: 3A • Dielectric withstanding voltage: 1000 VACr.m.s. (1 minute) • Operating temperature range: -40°C ~ 125°C • Applicable wire size (cable type): AVSS, AVS (partially): 0.3 ~ 1.25mm^2

Dimensions in mm

Fig. 1

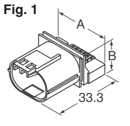

Fig. 2 ***NEW!***

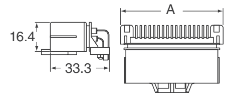

Fig. 3

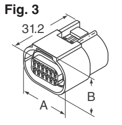

Fig. 4

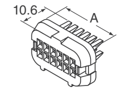

Fig.	No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				Pin Headers				
1	12	30.5	16.4	670-1683-ND	6.28	4.27	3.77	MX23A12NF1
	18	34	16.4	670-2462-ND ***NEW!***	7.38	5.02	4.52	MX23A18NF1
	26	48	16.4	670-1686-ND	8.95	6.09	5.37	MX23A26NF1
	34	54	16.4	670-2465-ND ***NEW!***	9.79	6.66	6.12	MX23A34NF1
	36	41.5	20.8	670-2467-ND ***NEW!***	16.85	12.26	10.92	MX23A36NF1
2	18	38	—	670-1784-ND ***NEW!***	12.55	8.54	7.53	MX23A18NF2
	34	58	—	670-1789-ND ***NEW!***	10.20	6.94	6.12	MX23A34NF2
				Socket Housings				
3	12	29.1	22.2	670-1684-ND	6.11	3.89	3.56	MX23A12SF1
	18	36.6	22.2	670-2463-ND ***NEW!***	5.49	3.66	3.28	MX23A18SF1
	26	46.6	22.2	670-1687-ND	8.58	5.84	5.15	MX23A26SF1
	34	56.6	22.2	670-1792-ND ***NEW!***	9.15	6.23	5.49	MX23A34SF1
	36	44.1	26.7	670-2468-ND ***NEW!***	16.15	11.75	10.65	MX23A36SF1
				Front Caps				
4	12	21.7	—	670-1685-ND	2.10	1.20	1.05	MX23A12XF1
	18	28.9	—	670-2464-ND ***NEW!***	1.90	1.12	.97	MX23A18XF1
	26	38.9	—	670-1688-ND	3.01	1.72	1.51	MX23A26XF1
	34	48.9	—	670-2466-ND ***NEW!***	2.67	1.64	1.47	MX23A34XF1
	36	36.5	—	670-2469-ND ***NEW!***	4.26	2.74	2.44	MX23A36XF1
				Socket Contacts				
—	—	—	—	670-1682-1-ND†	.22	.10	.08	M23S05K351
	—	—	—	670-1682-2-ND‡		218.96/5,000		M23S05K351
				Tools				
Hand Crimp Tool				670-1679-ND	2218.87	—	—	CT160-3B-MX23
Extraction Tool				670-1680-ND	311.12	—	—	ET-MX23
Connector Dummy Pin				670-1681-ND	.42	—	—	M120-55780
Socket 16 ~ 20 AWG				670-2263-1-ND† ***NEW!***	.65	.33	.27	MX23S05K3Q1
Socket 16 ~ 20 AWG				670-2263-2-ND‡ ***NEW!***		944.46/5,000		MX23S05K3Q1

† Cut Tape ‡ Tape and Reel

NEW! MX34 Series

Features: • Low mating/unmating force less than 80N • Socket contact with box-type pin header is durable to external force; contact part is highly resistant to twisting and equipped with a proven double leaf spring

Specifications: • Contact Spacing: 1.1mm (.043") • Contact Resistance: 5mΩ max. (initial) • Withstanding Voltage: 100VAC for one minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 3A • Insulation Resistance: 100MΩ min. • Durability: 50 Times

Materials and Finishes: • Socket Housing: 66NY + PPE (Alloy) • Socket Contact: High Conductive Material/ Tin Plating • Retainer: 66NY + PPE (Alloy) • Pin Insulator: SPS GF 30 • Pin Contact: Brass/ Tin Plating

Fig. 1 — Header

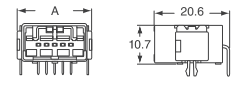

Fig. 2 — Header

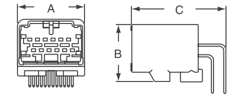

Fig. 3 — Header

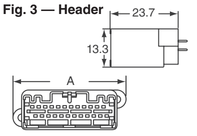

Fig. 4 — Receptacle

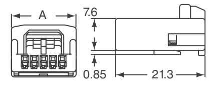

Fig. 5 — Receptacle

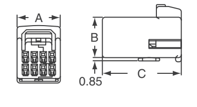

Fig.	No. of Positions	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
					Header				
1	3	15.8	—	—	670-2000-ND	4.60	3.22	2.95	MX34003NF1
	5	20.4	—	—	670-2283-ND	2.34	1.42	1.21	MX34005NF1
	7	24.8	—	—	670-2005-ND	2.25	1.50	1.28	MX34007NF1
2	12	19.1	15.9	26.3	670-2285-ND	1.78	1.08	.92	MX34012NF1
	14	29.6	16.5	28.52	670-2287-ND	3.17	1.92	1.64	MX34014NFA
	16	23.5	15.9	26.3	670-2289-ND	1.85	1.12	.96	MX34016NF1
	17	40.9	16.5	28.52	670-2293-ND	3.69	2.28	1.97	MX34017NFA
	28	36.7	15.9	26.3	670-2433-ND	2.73	1.69	1.55	MX34028NF2
	32	41.1	15.9	26.32	670-2296-ND	3.23	1.96	1.67	MX34032NF2
3	16	29.5	—	—	670-2292-ND	2.15	1.30	1.11	MX34016UF1
	20	33.9	—	—	670-2294-ND	2.21	1.34	1.14	MX34020UF1
	24	38.3	—	—	670-2295-ND	2.54	1.54	1.31	MX34024UF1
					Receptacle				
4	3	10.8	—	—	670-1793-ND	.95	.48	.38	MX34003SF1
	5	15.2	—	—	670-2284-ND	.81	.48	.38	MX34005SF1
	7	19.6	—	—	670-2009-ND	1.05	.53	.42	MX34007SF1
5	8	11.7	11.1	21.3	670-2302-ND	1.16	.73	.58	MX34E08SF1
	12	16.3	10.6	21.3	670-2286-ND	.98	.58	.46	MX34012SF1
	16	20.7	10.6	21.3	670-2290-ND	.98	.58	.46	MX34016SF1
	16	30.4	—	24	670-2291-ND	1.88	1.14	.97	MX34016SFA
	28	33.9	10.6	21.3	670-2010-ND	1.45	.73	.58	MX34028SF1
	32	38.3	10.6	21.3	670-2297-ND	1.24	.78	.62	MX34032SF1
	36	42.7	10.6	21.3	670-2298-ND	1.44	.90	.72	MX34036SF1
	40	47.1	10.6	21.3	670-2299-ND	1.44	.90	.72	MX34040SF1
					Crimp Contacts				
—	Socket 18 ~ 24 AWG				670-2006-ND	.11	.06	.05	M34S75C4F2
	Pin 22 ~ 24 AWG				670-2266-1-ND†	.34	.18	.13	M34P75C4F1
	Pin 22 ~ 24 AWG				670-2266-2-ND‡		646.54/7,500		M34P75C4F1
	Pin 18 ~ 20 AWG				670-2267-1-ND†	.34	.18	.13	M34P75C4F2
	Pin 18 ~ 20 AWG				670-2267-2-ND‡		646.54/7,500		M34P75C4F2
	Socket 22 ~ 24 AWG				670-2268-1-ND†	.14	.08	.05	M34S75C4F1
	Socket 22 ~ 24 AWG				670-2268-2-ND‡		183.22/7,500		M34S75C4F1

† Cut Tape ‡ Tape and Reel

MX36 Series

Features: • Small size, highly reliable, waterproof connector originally developed for car air bags • Grommet type waterproof of cable leading part **Specifications:** • Contact pitch: 2.5mm • Dielectric withstanding voltage: 1000 VACr.m.s. (1 minute) • Operating temperature range: -40°C ~ 105°C • Applicable cable: AVSS 0.5, AVSSC 0.5f, AVSSX 0.5f, TVSSX 0.5f

Fig. 1 — Pin Housings

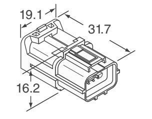

Fig. 2 — Socket Housings

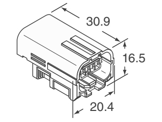

Fig. 3 — Front Cap

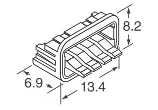

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
		Pin Housings				
1	2	670-1693-ND	2.42	1.38	1.21	MX36002PQ3
		Socket Housings				
2	2	670-1694-ND	2.80	1.60	1.40	MX36002SQ3
	4	670-1696-ND	2.80	1.60	1.40	MX36004SQ3
		Front Cap				
3	—	670-1697-ND	.60	.30	.24	MX36004XF3
		Pin Contacts				
—	—	670-1691-1-ND†	.52	.24	.19	M36P08K4Q3
		Socket Contacts				
—	—	670-1692-1-ND†	.52	.24	.19	M36S08K4Q3

† Cut Tape

NEW! MX44 Series

Features: • 3.5mm pitch, compact waterproof board to wire connector • Adopts single contact waterproof structure which makes each contact separately waterproof • Socket contact is a box type which is strong against external force and contact area adopts a proven double spring which is resistant to twisting

Specifications: • Contact Resistance: 5mΩ max. (initial) • Rated Current: 3A • Insulation Resistance: 100MΩ min. • Waterproof: 98kPA min. (initial) • Applicable Cable: AVSS 0.3 ~ 0.5sq. • Operating Temperature: -40°C ~ 125°C

Materials and Finishes: • Pin Connector: Pin Housing: 30% GF PBT; Pin Contact: Brass/ Tin Plating; Header Seal Rubber: Silicon Rubber • Socket Connector: Socket Housing: 30% GF PBT • Retainer: 30% GF PBT • Socket Contact: High conductive material/ Tin plating • Wire Seal: Silicon rubber

Fig. 1 — Right Angle Header

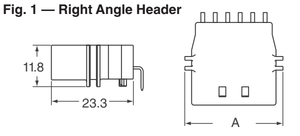

Fig. 2 — Receptacle

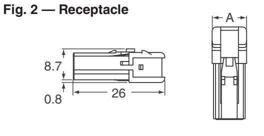

Fig. 3 — Retainer

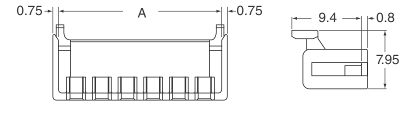

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			Right Angle Header				
1	2	14.3	670-2442-ND	5.28	3.46	3.08	MX44002NF1
	4	20.8	670-2445-ND	6.18	4.20	3.71	MX44004NF1
	6	27.8	670-2448-ND	7.58	5.16	4.55	MX44006NF1
			Receptacle				
2	2	9.7	670-2443-ND	2.31	1.42	1.21	MX44002SF1
	4	16.7	670-2446-ND	2.57	1.58	1.35	MX44004SF1
	6	23.7	670-2449-ND	1.85	1.14	.97	MX44006SF1

(Continued)

NEW! MX44 Series (Cont.)

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Retainer							
3	2	8.2	670-2444-ND	1.76	.88	.80	MX44002XR1
	4	15.2	670-2447-ND	1.84	.92	.83	MX44004XR1
	6	22.2	670-2450-ND	1.96	.98	.89	MX44006XR1
—	Wire Seal		670-2440-ND	.70	.35	.28	MX44000XP1
	Wire Seal		670-2441-ND	.70	.35	.28	MX44000XP2
	Crimp Socket 20 ~ 22 AWG		670-2439-1-ND†	.15	.08	.06	M44S05K4F1
	Crimp Socket 20 ~ 22 AWG		670-2439-2-ND‡	161.50/5,000			M44S05K4F1
	Crimp Tool		670-2461-ND	2162.33/1			CT150-2-MX44

† Cut Tape ‡ Tape and Reel

Waterproof, Miniature Connectors
JN1 and JN2 Series

JN1 Series (4 Pos): Specifications: • Rated Current: 5A (#20 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 2000VACr.m.s. per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C
JN1 Series (10 Pos): Specifications: • Rated Current: 3A (#22 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 900VACr.m.s. per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C
JN2 Series (4 Pos): Specifications: • Rated Current: 5A (#20 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 2000VACr.m.s. per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 100°C
JN2 Series (10 Pos/15 Pos): Specifications: • Rated Current: 3A (#22 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 900VACr.m.s. per minute • Insulation Resistance: Minimum 1000MΩ (DC 500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 100°C

Fig. 1

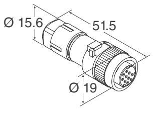

Fig. 2

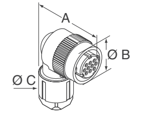

Fig. 3

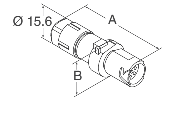

Fig. 4

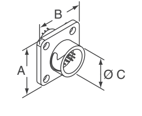

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Plug, Female — Solder Type									
1	4	—	—	—	670-1057-ND	12.04	8.56	7.76	JN1DS04FK1
	4	—	—	—	670-1058-ND	17.57	12.50	11.33	JN1DS04FK2
	4	—	—	—	670-1073-ND	17.71	12.60	11.42	JN2DS04FK2-R
	4	—	—	—	670-1074-ND	15.71	11.17	10.13	JN2DS04FK2X-R
2	4	30.3	30.5	15.6	670-1062-ND	12.04	8.56	7.76	JN1FS04FK1
	4	30.3	30.5	15.6	670-1063-ND	17.57	12.50	11.33	JN1FS04FK2
	4	30.3	30.5	15.6	670-1064-ND	17.57	12.50	11.33	JN1FS04FK2X
	4	29.8	19.0	15.6	670-2247-ND ***NEW!***	25.26	18.95	17.69	JN1FS04FKK
	4	30.3	30.5	15.6	670-1077-ND	17.71	12.60	11.42	JN2FS04FK2-R
Plug, Female — Crimp Type — Contacts Sold Separately									
1	10	—	—	—	670-1060-ND	13.00	8.32	7.80	JN1DS10SL1
	10	—	—	—	670-1061-ND	13.00	8.32	7.80	JN1DS10SL2
	10	—	—	—	670-2246-ND ***NEW!***	25.28	18.96	17.70	JN1DS10SLK
	10	—	—	—	670-1075-ND	17.53	12.47	11.30	JN2DS10SL1-R
	10	—	—	—	670-1076-ND	17.53	12.47	11.30	JN2DS10SL2-R
2	10	30.3	30.5	15.6	670-1065-ND	13.00	8.32	7.80	JN1FS10SL1
	10	30.3	30.5	15.6	670-1066-ND	13.00	8.32	7.80	JN1FS10SL2
	10	29.8	19.0	15.6	670-2248-ND ***NEW!***	25.26	18.95	17.69	JN1FS10SLK
	10	30.8	20.0	15.6	670-2025-ND ***NEW!***	37.54	28.16	26.28	JN2FS10SLK-R
	10	30.3	30.5	15.6	670-1078-ND	17.53	12.47	11.30	JN2FS10SL1-R
	10	30.3	30.5	15.6	670-1079-ND	17.53	12.47	11.30	JN2FS10SL2-R
	15	40.7	26.2	23.0	670-2425-ND ***NEW!***	32.84	24.63	22.99	JN2FW15SL1
Relay Receptacle, Male — Crimp Type — Contacts Sold Separately									
3	10	55.8	20.3	—	670-2249-ND ***NEW!***	12.49	8.88	8.05	JN1HS10PL1
	10	55.8	20.3	—	670-1068-ND§	14.58	10.37	9.40	JN1KS10PL1
	10	41.0	20.0	—	670-2250-ND ***NEW!***	13.70	9.75	8.84	JN1KS10PL2
Panel Mount Receptacle, Male — Solder Type									
4	4	25.4	25.4	14.8	670-1053-ND	7.59	4.31	4.05	JN1AS04MK1
	10	23.4	23.4	14.8	670-2028-ND ***NEW!***	6.33	4.31	3.80	JN1AS10ML1-R
	10	23.4	23.4	14.8	670-1055-ND	6.88	4.68	4.13	JN1AS10ML2
	10	23.4	23.4	14.8	670-2027-ND ***NEW!***	11.68	7.94	7.01	JN2AS10ML1-R
	10	23.4	23.4	14.8	670-1070-ND	32.00	24.00	22.40	JN2AS10ML2-R
	10	20.0	39.0	14.8	670-1056-ND†	5.28	3.08	2.82	JN1AS10UL1
	10	20.0	39.0	14.8	670-1071-ND†	9.85	6.70	5.91	JN2AS10UL1-R
	15	32.5	32.5	20.4	670-2424-ND ***NEW!***	21.18	15.89	14.83	JN2AW15PL1

§ Panel Mount † PCB Type

Contacts/Tools

Description	Wire Size	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Connecting Pin, Gold Crimp	21 ~ 25 AWG	670-1047-1-ND†	.49	.26	.22	JN1-22-22P-10000
	20 ~ 21 AWG	670-2026-1-ND† ***NEW!***	.56	.29	.22	JN1-22-20P-R-10000
	20 ~ 21 AWG	670-2026-2-ND‡ ***NEW!***	1358.65/10,000			JN1-22-20P-R-10000
	20 ~ 21 AWG	670-2417-ND ***NEW!***	.55	.28	.23	JN1-22-26P-PKG100
Solder Socket	21 ~ 25 AWG	670-2456-ND ***NEW!***	1.36	.77	.62	JN1-22-22F-PKG100
Connecting Socket, Gold Crimp	20 ~ 21 AWG	670-2415-ND ***NEW!***	1.12	.51	.45	JN1-22-20S-R-PKG100
	21 ~ 25 AWG	670-1049-1-ND†	.46	.25	.20	JN1-22-22S-10000
	21 ~ 25 AWG	670-1049-2-ND‡	1282.09/10,000			JN1-22-22S-10000
	21 ~ 25 AWG	670-1050-ND	.54	.28	.22	JN1-22-22S-PKG100
	26 ~ 28 AWG	670-1051-1-ND†	.46	.25	.20	JN1-22-26S-10000
	26 ~ 28 AWG	670-1051-2-ND‡	1282.09/10,000			JN1-22-26S-10000
	26 ~ 28 AWG	670-1052-ND	.54	.28	.22	JN1-22-26S-PKG100
Crimp Tool 22 ~ 28 AWG		670-1183-ND	1125.42	—	—	CT150-2-JN1-B
Crimp Tool 20 ~ 25 AWG		670-1184-ND	957.55	—	—	CT150-2-JN1-D
Crimp Tool 21 ~ 25 AWG		670-1185-ND	860.17	—	—	CT150-2-JN1-E

† Cut Tape ‡ Tape and Reel

NEW! N/MS Series

Features: • Compatible with JAE JL02 and JL04V Series connectors • UL standard qualified product (File No. E67741) • Sealed to withstand moisture, condensation, vibration and flashover **Specifications:** • Insulation Resistance: 5,000MΩ (5,000VDC) • Operating Temperature: -30°C ~ 85°C **Materials and Finishes:** • Outer Shell: Black chrome plating over Zinc • Contact: Machined Brass Silver plating • Insulator: Plastic (UL94V-0)

Fig. 1 — Cable Receptacle

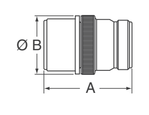

Fig. 2 — Box Mount Receptacle

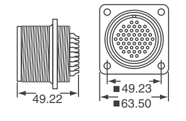

Fig. 3 — Cable Plug

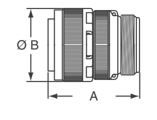

Fig.	No. of Position	Dimensions A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Cable Receptacle								
1	17	55.58	37.31	670-2324-ND	48.13	38.78	35.57	N/MS3101B20-29PW
	17	55.58	37.31	670-2325-ND	53.15	42.82	39.28	N/MS3101B20-29S
	22	58.72	50.01	670-2326-ND	73.71	59.38	54.47	N/MS3101B28-11P
Box Mount Receptacle								
2	48	—	—	670-2327-ND	81.70	65.82	60.37	N/MS3102A36-10P
	48	—	—	670-2328-ND	95.34	78.52	74.59	N/MS3102A36-10S
Cable Plug								
3	48	61.93	62.7	670-2329-ND	124.17	102.26	97.15	N/MS3106A36-10P
	3	38.89	22.2	670-2330-ND	31.36	23.52	21.96	N/MS3106B10SL-3S

Miniature Circular Connectors
SRCN Series

Features: Product approved by UL standard: File No. E-67741(s)

Specifications: • Current Rating: 5A maximum for #20 contact, 10A maximum for #16 contact • Operating Voltage: 250 VACr.m.s. maximum, 350 VDC maximum • Operating Temperature: -25°C ~ 85°C • Dielectric Withstanding Voltage: 1000 VACr.m.s per minute • Insulation Resistance: 1000MΩ minimum (with 500 VDC) Contact Resistance: 5mΩ maximum

Materials and Finishes: Shell, Barrel, Endbell, Coupling Nut and Clamp: Aluminum Alloy, Nickel plated (satin) • Insulator: Synthetic resin, UL94V-0 (Green) • Contact: Copper Alloy, Silver Plated • Retaining Ring: Copper Alloy, Nickel Plated • Set Screw, Clamp Screw: Steel, Nickel Plated

Fig. 1

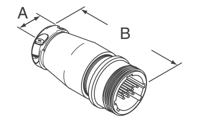

Fig. 2

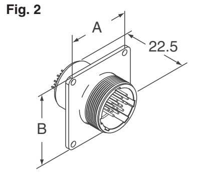

Fig. 3

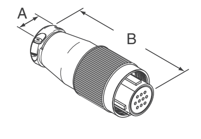

No. of Positions	Thread	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Fig. 1 — Cable Connecting Receptacles with Female Sockets								
3	M18 x 1	8.5	46	670-1111-ND	8.63	5.87	5.18	SRCN1A13-3S
10	M22 x 1	11.5	49	670-1115-ND	13.21	9.40	8.52	SRCN1A16-10S
24	M30 x 1	17	56	670-1125-ND	14.47	10.29	9.33	SRCN1A25-24S
Fig. 2 — Box Mounting Receptacles with Male Pins								
3	M18 x 1	20	26	670-1126-ND	4.57	2.91	2.66	SRCN2A13-3P
5	M18 x 1	20	26	670-1128-ND	4.92	3.14	2.87	SRCN2A13-5P
7	M22 x 1	23	29	670-1132-ND	5.75	3.66	3.35	SRCN2A16-7P
10	M22 x 1	23	29	670-1130-ND	7.12	4.41	4.15	SRCN2A16-10P
10	M26 x 1	26	32	670-1134-ND	6.63	4.51	3.98	SRCN2A21-10P
16	M26 x 1	26	32	670-1136-ND	6.80	4.63	4.08	SRCN2A21-16P
24	M30 x 1	29	35	670-1139-ND	9.88	6.72	5.93	SRCN2A25-24P
Fig. 2 — Box Mounting Receptacles with Female Sockets								
3	M18 x 1	20	26	670-1127-ND	4.76	3.03	2.77	SRCN2A13-3S
5	M18 x 1	20	26	670-1129-ND	5.28	3.36	3.08	SRCN2A13-5S
7	M22 x 1	23	29	670-1133-ND	6.11	3.78	3.56	SRCN2A16-7S
10	M22 x 1	23	29	670-1131-ND	7.13	4.85	4.28	SRCN2A16-10S
10	M26 x 1	26	32	670-1135-ND	7.13	4.85	4.28	SRCN2A21-10S
16	M26 x 1	26	32	670-1137-ND	7.30	4.97	4.38	SRCN2A21-16S
16	M30 x 1	29	35	670-1138-ND	8.05	5.48	4.83	SRCN2A25-16S
Fig. 3 — Straight Plug with Male Pins								
3	M18 x 1	8.5	47	670-1141-ND	9.30	6.33	5.58	SRCN6A13-3P
5	M18 x 1	8.5	47	670-1143-ND	9.13	6.21	5.48	SRCN6A13-5P
7	M22 x 1	11.5	50	670-1147-ND	10.95	7.01	6.57	SRCN6A16-7P
7	M22 x 1	11.5	50	670-1148-ND	17.66	12.56	11.39	SRCN6A16-7P-J2
10	M22 x 1	11.5	50	670-1145-ND	11.60	7.43	6.96	SRCN6A16-10P
10	M26 x 1	14	54	670-1151-ND	12.68	8.12	7.61	SRCN6A21-10P
16	M26 x 1	14	54	670-1153-ND	12.24	8.71	7.89	SRCN6A21-16P
16	M30 x 1	17	57	670-1157-ND	12.53	8.92	8.08	SRCN6A25-16P
18	M26 x 1	14	54	670-1155-ND	13.64	9.70	8.79	SRCN6A21-18P
24	M30 x 1	17	57	670-1159-ND	14.47	10.29	9.33	SRCN6A25-24P
Fig. 3 — Straight Plug with Female Sockets								
3	M18 x 1	8.5	47	670-1142-ND	9.45	6.43	5.67	SRCN6A13-3S
5	M18 x 1	8.5	47	670-1144-ND	9.30	6.33	5.58	SRCN6A13-5S
7	M22 x 1	11.5	50	670-1150-ND	18.36	13.06	11.84	SRCN6A16-7S-J1
10	M22 x 1	11.5	50	670-1146-ND	11.93	7.64	7.16	SRCN6A16-10S
10	M26 x 1	14	54	670-1152-ND	13.13	8.40	7.88	SRCN6A21-10S
16	M26 x 1	14	54	670-1154-ND	12.53	8.92	8.08	SRCN6A21-16S
16	M30 x 1	17	57	670-1158-ND	13.21	9.40	8.52	SRCN6A25-16S
18	M26 x 1	14	54	670-1156-ND	13.79	9.81	8.89	SRCN6A21-18S
25	M30 x 1	17	57	670-1160-ND	15.59	11.09	10.05	SRCN6A25-24S

AMP Micro CPC

Electrical: • Current carrying capacity: 2-3A • Operating voltage: 250VAC minimum • Dielectric withstanding voltage: 1500VAC minimum

Mechanical: • 5000 minimum mating cycles (Spring probe contact system) • 500 mating cycles (Screw machine pin and socket contacts) • Housing: Single piece design, nylon • Environmental sealing: Splash proof IP65 • Wire size: 24-30AWG

Materials: • Spring probe pin: Brass, 10 µin (.25 µm) gold finish over nickel on mating end, tin-lead over nickel on solder cup/solder tail • Spring probe pad: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine pin: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine socket: Brass body, beryllium copper clip, 30 µin (.76 µm) gold finish over nickel, clip tin-lead over nickel body

Contact Type: • X = Spring Probe Contacts • Y = Pin and Socket Contacts

Fig. 1 - Plug

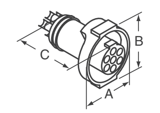

Solder Cup Shown

Fig. 2 - Panel Mount Receptacle

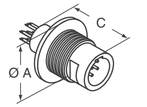

Solder Cup Shown

Fig. 3 - Free-Hanging Receptacle

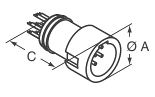

Solder Cup Shown

Fig.	No. of Pos.	Shell Size	Solder Type	Contact Type	Dimensions - mm			Digi-Key Part No.	Price Each			AMP Part No.
					A	B	C		1	25	50	
1	7	M9.5	Cup	X	11.1	13.6	12.65	A29954-ND◆	7.15	6.64	5.80	1445322-1
	7	M9.5	Cup	Y	11.1	13.6	12.65	A29964-ND	6.77	6.27	5.48	1445642-1
	7	M9.5	Cup	Y	11.1	13.6	12.65	A97411-ND◆	6.42	5.95	5.20	2-1445642-0
	19	M13.5	Cup	X	15.6	18.6	12.65	A29955-ND◆	18.27	16.93	14.80	1445777-1
	19	M13.5	Cup	Y	15.6	18.6	12.65	A29965-ND	20.48	18.99	16.59	1445782-1
2	7	M9.5	Cup	X	16	—	15.45	A29956-ND	13.61	12.62	11.03	1445718-1
	7	M9.5	Cup	X	16	—	15.45	A33737-ND◆	15.85	14.69	12.84	2-1445718-0
	7	M9.5	Tail	X	16	—	15.45	A34587-ND◆	14.37	13.32	11.64	2-1445719-1
	7	M9.5	Cup	Y	16	—	15.45	A29966-ND◆	7.85	7.28	6.36	1445721-1
	7	M9.5	Tail	Y	16	—	15.45	A29967-ND◆	7.63	7.07	6.18	1445720-1
	7	M9.5	Tail	X	16	—	15.45	A99406-ND◆	14.37	13.32	11.64	2-1445719-0
	19	M13.5	Cup	X	20.75	—	15.45	A29960-ND	30.96	28.69	25.07	1445759-1
	19	M13.5	Cup	Y	20.75	—	15.45	A29970-ND◆	15.33	14.22	12.42	1445779-1
	19	M13.5	Tail	Y	20.75	—	15.45	A29971-ND◆	14.23	13.19	11.53	1445778-1
	19	M13.5	Tail	X	20.75	—	15.45	A99409-ND◆	30.24	28.03	24.49	2-1445758-0
3	7	M9.5	Cup	X	9.5	—	12.25	A29958-ND	13.53	12.54	10.96	1445555-1
	7	M9.5	Cup	X	9.5	—	12.25	A34586-ND◆	13.53	12.54	10.96	2-1445555-1
3	7	M9.5	Cup	Y	9.5	—	12.25	A29968-ND◆	11.13	10.32	9.02	1445641-1
	7	M9.5	Tail	Y	9.5	—	12.25	A29969-ND◆	7.13	6.62	5.78	1445691-1
	7	M9.5	Tail	X	9.5	—	12.25	A99404-ND◆	13.84	12.83	11.21	2-1445323-0
	7	M9.5	Cup	X	9.5	—	12.25	A99405-ND◆	13.53	12.54	10.96	2-1445555-0
	19	M13.5	Cup	Y	13.5	—	12.25	A29972-ND◆	13.12	12.16	10.63	1445773-1
	19	M13.5	Tail	Y	13.5	—	12.25	A29973-ND◆	11.40	10.57	9.23	1445772-1
	19	M13.5	Tail	X	13.5	—	12.25	A99407-ND◆	28.47	26.40	23.06	2-1445756-0
	19	M13.5	Cup	X	13.5	—	12.25	A99408-ND◆	28.62	26.53	23.18	2-1445757-0
Accessories — RoHS Compliant												
Jam Nut, Shell Size M9.5								A29974-ND	3.08	2.85	2.49	1604197-1
Jam Nut, Shell Size M13.5								A29975-ND	3.42	3.18	2.78	1604196-1
Strain Relief, Shell Size M9.5								A29976-ND	3.18	2.95	2.58	1604111-1
Strain Relief, Shell Size M13.5								A29977-ND	3.32	3.08	2.69	1604204-1
Flange Seal, Shell Size M9.5								A29978-ND	.87	.81	.71	1445420-3
Flange Seal, Shell Size M13.5								A29979-ND	.53	.50	.44	1445420-1

◆ ***RoHS Compliant***

AMP Miniature CPC

Features: • Pre-positioned 1/4 turn coupling ring with positive lock and alignment features • Sealed to IP67

Electrical: • Current carrying capacity: 5A • Operating voltage: 600VAC minimum • Dielectric withstanding voltage: 2200VAC minimum

Mechanical: • Wire termination - crimp

Materials: • Housing: Thermoplastic, black

Note: Receptacles accept pin contacts and plugs accept socket contacts

Fig. 1 — Plug

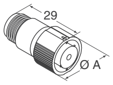

Fig. 2 — Panel Mount Receptacle

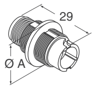

Fig. 3 — Free-Hanging Receptacle

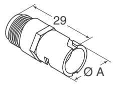

Fig.	No. of Pos.	Shell Size	Dim. A (mm)	Insulation Dia. Range (mm)	Digi-Key Part No.	Price Each			AMP Part No.
						1	25	50	
1	1	M8	12.55	1.5 ~ 2.39	A29997-ND	3.75	3.48	3.04	1445536-3
	2	M8	12.55	.89 ~ 1.5	A29998-ND	3.75	3.48	3.04	1445535-1
	2	M8	12.55	1.5 ~ 2.39	A29999-ND	3.75	3.48	3.04	1445535-3
	3	M8	12.55	.89 ~ 1.5	A30000-ND	3.75	3.48	3.04	1445534-1
	3	M8	12.55	1.5 ~ 2.39	A30001-ND	3.75	3.48	3.04	1445534-3
	4	M8	12.55	.89 ~ 1.5	A30002-ND	3.75	3.48	3.04	1445390-1
	4	M8	12.55	1.5 ~ 2.39	A30003-ND	3.75	3.48	3.04	1445390-3
	5	M11	18.8	.89 ~ 1.5	A30024-ND	3.94	3.65	3.19	1445820-1
	5	M11	18.8	1.5 ~ 2.39	A30025-ND	3.94	3.65	3.19	1445820-3
	6	M11	18.8	.89 ~ 1.5	A30026-ND	3.94	3.65	3.19	1445819-1
	6	M11	18.8	1.5 ~ 2.39	A30027-ND	3.94	3.65	3.19	1445819-3
	7	M11	18.8	.89 ~ 1.5	A30028-ND	3.94	3.65	3.19	1445818-1
	7	M11	18.8	1.5 ~ 2.39	A30029-ND	3.94	3.65	3.19	1445818-3
	8	M11	18.8	.89 ~ 1.5	A30030-ND	3.94	3.65	3.19	1445817-1
	8	M11	18.8	1.5 ~ 2.39	A30031-ND	3.94	3.65	3.19	1445817-3
	9	M11	18.8	.89 ~ 1.5	A30032-ND	3.94	3.65	3.19	1445807-1
	9	M11	18.8	1.5 ~ 2.39	A30033-ND	3.94	3.65	3.19	1445807-3
2	2	M8	21	.89 ~ 1.5	A29982-ND	5.45	5.06	4.42	1445538-1
	2	M8	21	1.5 ~ 2.39	A29983-ND	5.45	5.06	4.42	1445538-3
	3	M8	21	.89 ~ 1.5	A29984-ND	5.45	5.06	4.42	1445537-1
	3	M8	21	1.5 ~ 2.39	A29985-ND	5.45	5.06	4.42	1445537-3
	4	M8	21	.89 ~ 1.5	A29986-ND	5.45	5.06	4.42	1445421-1
	4	M8	21	1.5 ~ 2.39	A29987-ND	5.45	5.06	4.42	1445421-3
	5	M11	24	.89 ~ 1.5	A30004-ND	5.84	5.42	4.74	1445824-1
	5	M11	24	1.5 ~ 2.39	A30005-ND	5.84	5.42	4.74	1445824-3
	6	M11	24	.89 ~ 1.5	A30006-ND	5.84	5.42	4.74	1445823-1
	6	M11	24	1.5 ~ 2.39	A30007-ND	5.84	5.42	4.74	1445823-3
	7	M11	24	.89 ~ 1.5	A30008-ND	5.84	5.42	4.74	1445822-1
	7	M11	24	1.5 ~ 2.39	A30009-ND	5.84	5.42	4.74	1445822-3
	8	M11	24	.89 ~ 1.5	A30010-ND	5.84	5.42	4.74	1445821-1
	8	M11	24	1.5 ~ 2.39	A30011-ND	5.84	5.42	4.74	1445821-3
2	9	M11	24	.89 ~ 1.5	A30012-ND	5.84	5.42	4.74	1445816-1
	9	M11	24	1.5 ~ 2.39	A30013-ND	6.01	5.57	4.87	1445816-3
3	2	M8	13.75	.89 ~ 1.5	A29990-ND	4.06	3.77	3.29	1445522-1
	2	M8	13.75	1.5 ~ 2.39	A29991-ND	4.06	3.77	3.29	1445522-3
	3	M8	13.75	.89 ~ 1.5	A29992-ND	4.06	3.77	3.29	1445510-1
	3	M8	13.75	1.5 ~ 2.39	A29993-ND	4.06	3.77	3.29	1445510-3
	4	M8	14	.89 ~ 1.5	A29994-ND	4.06	3.77	3.29	1445389-1
	4	M8	14	1.5 ~ 2.39	A29995-ND	4.06	3.77	3.29	1445389-3
	5	M11	20.5	1.5 ~ 2.39	A30015-ND	4.26	3.96	3.46	1445829-3
	6	M11	20.5	.89 ~ 1.5	A30016-ND	4.26	3.96	3.46	1445828-1
	6	M11	20.5	1.5 ~ 2.39	A30017-ND	4.26	3.96	3.46	1445828-3
	7	M11	20.5	.89 ~ 1.5	A30018-ND	4.26	3.96	3.46	1445827-1
	7	M11	20.5	1.5 ~ 2.39	A30019-ND	4.26	3.96	3.46	1445827-3
	8	M11	20.5	.89 ~ 1.5	A30020-ND	4.26	3.96	3.46	1445826-1
	8	M11	20.5	1.5 ~ 2.39	A30021-ND	4.26	3.96	3.46	1445826-3
	9	M11	20.5	.89 ~ 1.5	A30022-ND	4.26	3.96	3.46	1445825-1
	9	M11	20.5	1.5 ~ 2.39	A30023-ND	4.26	3.96	3.46	1445825-3
Accessories									
Jam Nut, Shell Size M8					A29975-ND	3.42	3.18	2.78	1604196-1
Jam Nut, Shell Size M11					A30038-ND	1.14	1.06	.92	1445904-1
Strain Relief, Straight, Shell Size M8					A30034-ND	2.28	2.11	1.85	1445730-1
Strain Relief, Right Angle, Shell Size M8					A30035-ND	2.44	2.27	1.98	1445771-1
Strain Relief, Straight, Shell Size M11					A30037-ND	2.16	2.01	1.75	1445856-1
Strain Relief, Right Angle, Shell Size M11					A34531-ND	5.25	4.87	4.25	1546746-4
Insertion Tip (Seal Protector)					A32498-ND	1.12	1.04	.91	1604816-1
Flange Seal, Shell Size M8					A29979-ND	.53	.50	.44	1445420-1
Flange Seal, Shell Size M11					A99371-ND	.55	.52	.45	1445420-2
Dust Cap, Shell Size M8					A99372-ND	1.35	1.26	1.10	1604089-1
Dust Cap, Shell Size M11					A99374-ND	1.37	1.28	1.12	1604089-2
Heat Shrink Boot, Shell Size M8					A99403-ND	9.23	8.55	7.47	1546997-1
Heat Shrink Boot, Shell Size M11					A99373-ND	8.20	7.60	6.64	1546921-1

AMP Miniature CPC Contacts

Specifications:
- Material: Brass • Stock thickness: .008" (.20mm)

Contact Plating:
A: Brass pre-tin plated **B:** Duplex finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Contact

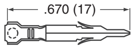

Socket Contact

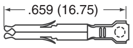

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape and Reel Qty.	Strip Tape and Reel Pricing	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)													
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	A25667-ND◆	.30	10.13	794059-1	A25667CT-ND◆	—	58.98	A25667TR-ND◆	10,000	31.85/M	770835-1
	.035 ~ .050 (.889 ~ 1.27)	B	A25671-ND	.57	36.43	794059-3	—	—	—	—	—	—	—
	.035 ~ .050 (.889 ~ 1.27)	B	A33738-ND◆	.53	34.10	1-794059-0	A33738CT-ND◆	—	288.13	A33738TR-ND◆	10,000	155.59/M	1-770835-0
	.035 ~ .050 (.889 ~ 1.27)	A	A25675-ND◆	.26	8.84	770985-1	A25675CT-ND◆	—	58.98	A25675TR-ND◆	7,000	35.39/M	770901-1
26 ~ 22	.047 ~ .069 (1.2 ~ 1.75)	B	A32013-ND◆	.53	34.10	1-770985-0	A32013CT-ND◆	158.47	288.13	A32013TR-ND◆	7,000	172.88/M	1-770901-0
	.047 ~ .069 (1.2 ~ 1.75)	B	A97676-ND◆	1.16	39.41	170363-3	—	—	—	—	—	—	—
	.047 ~ .069 (1.2 ~ 1.75)	B	—	—	—	—	A97675CT-ND◆	185.28	336.88	A97675TR-ND◆	6,000	195.39/M	170359-3
	.047 ~ .069 (1.2 ~ 1.75)	B	A97685-ND◆	.10	3.32	170359-1	—	—	—	—	—	—	—
22 ~ 18	.059 ~ .095 (1.5 ~ 2.4)	B	A97677-ND◆	1.16	39.41	170364-3	—	—	—	—	—	—	—
	.059 ~ .095 (1.5 ~ 2.4)	A	A97686-ND◆	.12	7.39	170364-1	—	—	—	A97686TR-ND◆	4,000	30.16/M	170360-1
22 ~ 18 or (2)22	.060 ~ .094 or .133 max. (1.50 ~ 2.40 or 3.38)	A	A25683-ND◆	.30	10.13	770987-1	A25683CT-ND◆	37.07	67.40	A25683TR-ND◆	4,500	40.44/M	770903-1
		B	A32015-ND◆	.53	34.10	1-770987-0	A32015CT-ND◆	221.93	403.50	A32015TR-ND◆	4,500	242.10/M	1-770903-0
Socket Contacts													
30 ~ 26	.035 ~ .050 (.889 ~ 1.27)	A	A25668-ND◆	.26	8.84	794058-1	A25668CT-ND◆	—	58.98	A25668TR-ND◆	10,000	31.85/M	770834-1
	.035 ~ .050 (.889 ~ 1.27)	B	A25672-ND	.50	31.78	794058-3	—	—	—	—	—	—	—
	.035 ~ .050 (.889 ~ 1.27)	B	A33739-ND◆	.53	34.10	1-794058-0	—	—	—	—	—	—	—
26 ~ 22	.047 ~ .069 (1.2 ~ 1.75)	A	A25676-ND◆	.30	10.13	770986-1	A25676CT-ND◆	—	58.98	A25676TR-ND◆	7,000	35.39/M	770902-1
	.047 ~ .069 (1.2 ~ 1.75)	B	A32014-ND◆	.53	34.10	1-770986-0	A32014CT-ND◆	234.91	427.10	A32014TR-ND◆	7,000	256.26/M	1-770902-0
	.047 ~ .069 (1.2 ~ 1.75)	B	A97678-ND◆	1.16	39.41	170365-1	—	—	—	—	—	—	—
	.047 ~ .069 (1.2 ~ 1.75)	B	—	—	—	—	A97687CT-ND◆	26.85	48.83	A97687TR-ND◆	6,000	28.32/M	170361-1
	.047 ~ .069 (1.2 ~ 1.75)	B	—	—	—	—	A97688CT-ND◆	214.91	390.75	A97688TR-ND◆	6,000	226.64/M	170361-3
22 ~ 18	.059 ~ .095 or .134 max.	B	A97690-ND◆	1.16	39.41	170366-3	—	—	—	—	—	—	—
	.059 ~ .095 or .134 max.	B	—	—	—	—	A97689CT-ND◆	165.32	300.58	A97689TR-ND◆	4,000	174.34/M	170362-3
22 ~ 18 or (2)22	.060 ~ .094 or .133 max. (1.50 ~ 2.40 or 3.33)	A	A25684-ND◆	.26	8.84	770988-1	A25684CT-ND◆	37.07	67.40	A25684TR-ND◆	4,500	40.44/M	770904-1
		B	A32016-ND◆	.53	34.10	1-770988-0	A32016CT-ND◆	221.93	403.50	A32016TR-ND◆	4,500	242.10/M	1-770904-0

◆ ***RoHS Compliant***

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Keying Plugs and Tools for Miniature CPC Contacts			
Contact Extraction Tool	A25695-ND	18.22	189727-1
Contact Insertion Tool	A1444-ND	16.14	455830-1
PRO-CRIMPER III Hand Tool, with Die Set, 26 ~ 22AWG	A25584-ND	164.70	90758-1
PRO-CRIMPER III Hand Tool, with Die Set, 18 ~ 22AWG	A25585-ND	164.70	90759-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
PRO-CRIMPER III Hand Tool, with Die, 20 ~ 18 or 20(2)AWG	A25586-ND	164.70	90760-1
Die Set, 26 ~ 22AWG use with A9996-ND	A30039-ND	90.72	90758-2
Die Set, 22 ~ 18AWG use with A9996-ND	A30040-ND	90.72	90759-2
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1

AMP CPC – Medical Connectors

RoHS COMPLIANT

Features: • Connectors are user friendly, sterilizable, robust and provide secure self-latching • Can be overmolded with silicone or PVC flex reliefs for cable strain and flex protection • Available with an integral cable collet or an overmolded flex relief • Self-latching mechanism is secure under axial and torsional loads
Electrical: • Operating Voltage: 300VAC • Current Rating: 5 position 7A, 6 position 6A, 7 position 5A, 10 position 3A • Dielectric Withstanding Voltage: 1200VAC • Insulation Resistance: 1000MΩ • Contact Resistance: 20mΩ maximum
Mechanical: • Durability: 2500 cycles • Temperature Rating: -50°C ~ 170°C • Mating Force: 2.5lbs maximum • Unmating Force: 1.0lb minimum
Materials: • Housing, Insert, Collet and Nut: Polyphenylsulfone • Contacts: Copper Alloy, Gold Finish • Hex Nut: Copper Alloy, Nickel Finish
Standards and Specifications: • EIA-364: Electrical Connector/Socket Test procedure including Environmental Classification

Fig. 1

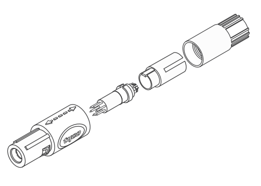

Fig. 2

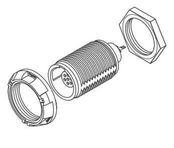

No. of Positions	Nut/ Housing Color	Keying	Cable Range	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
Fig. 1 — Cable Collet - Straight Plug Assembly								
5	Black	0°	ø4.0 ~ ø5.2	A97737-ND	13.78	12.77	11.16	1877845-2
	Black	0°	ø2.7 ~ ø3.9	A97738-ND	13.78	12.77	11.16	1877845-3
	Black	80°	ø5.3 ~ ø6.5	A97739-ND	13.78	12.77	11.16	1877845-4
	Black	80°	ø4.0 ~ ø5.2	A97740-ND	16.54	15.34	13.40	1877845-5
	Gray	0°	ø5.3 ~ ø6.5	A97742-ND	13.78	12.77	11.16	1877845-7
	Gray	0°	ø2.7 ~ ø3.9	A97744-ND	13.78	12.77	11.16	1877845-9
6	Black	0°	ø5.3 ~ ø6.5	A97748-ND	14.70	13.63	11.91	1877846-1
	Black	0°	ø4.0 ~ ø5.2	A97749-ND	14.70	13.63	11.91	1877846-2
	Black	80°	ø5.3 ~ ø6.5	A97751-ND	14.70	13.63	11.91	1877846-4
	Gray	0°	ø5.3 ~ ø6.5	A97754-ND	14.70	13.63	11.91	1877846-7
	Gray	0°	ø4.0 ~ ø5.2	A97755-ND	14.70	13.63	11.91	1877846-8
	Gray	80°	ø2.7 ~ ø3.9	A97759-ND	17.63	16.34	14.28	1-1877846-2
7	Black	80°	ø5.3 ~ ø6.5	A97763-ND	16.03	14.86	12.99	1877847-4
	Gray	80°	ø5.3 ~ ø6.5	A97769-ND	16.03	14.86	12.99	1-1877847-0
	Gray	80°	ø4.0 ~ ø5.2	A97770-ND	16.03	14.86	12.99	1-1877847-1
	Gray	80°	ø2.7 ~ ø3.9	A97771-ND	16.03	14.86	12.99	1-1877847-2
10	Gray	0°	ø5.3 ~ ø6.5	A97778-ND	18.84	17.47	15.26	1877848-7
	Gray	0°	ø2.7 ~ ø3.9	A97780-ND	18.84	17.47	15.26	1877848-9
	Gray	80°	ø4.0 ~ ø5.2	A97782-ND	22.61	20.96	18.31	1-1877848-1

No. of Positions	Keying	Nut/Housing Color	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
Fig. 1 — Overmold Cable Nut - Straight Plug Assembly							
5	0°	Black	A97784-ND	16.65	15.43	13.48	1877849-1
	0°	Gray	A97786-ND	13.86	12.85	11.23	1877849-3
6	80°	Black	A97789-ND	14.78	13.70	11.97	1877850-2
10	80°	Gray	A97801-ND	22.71	21.06	18.40	1877852-4
Fig. 2 — Receptacle Assembly - Panel Mount							
5	0°	Gray	A97720-ND	26.51	24.57	21.47	1877066-1
	80°	Gray	A97722-ND	26.51	24.57	21.47	1877066-3
6	0°	Gray	A97724-ND	24.66	22.86	19.97	1877067-1
	80°	Black	A97727-ND	24.66	22.86	19.97	1877067-4
7	80°	Gray	A97730-ND	27.31	25.31	22.12	1877068-3
10	0°	Gray	A97732-ND	40.51	37.55	32.81	1877069-1

Color	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
Nut Adjustment Front					
Red	A97802-ND	.43	.40	.35	1811448-1
White	A97803-ND	.43	.40	.35	1811448-2
Yellow	A97804-ND	.43	.40	.35	1811448-3
Green	A97805-ND	.43	.40	.35	1811448-4
Blue	A97806-ND	.43	.40	.35	1811448-5
Collet Back-Nut					
Red	A97807-ND	.57	.54	.47	1877841-1

AMP Circular Plastic Connectors

Component Diameter	
Arrangement/ Shell Size	Overall Diameter Inch (mm)
11	.942 (23.93)
13	1.070 (27.18)
17	1.315 (33.40)
23	1.743 (44.2)

- Lightweight, all-plastic connectors
- CPC connectors made of UL recognized, high-grade black thermoplastic material
- 94V-1 rated, heat-stabilized, fire-resistant, self-extinguishing

- Six connector series for different connection needs:

Series 1 – Standard density applications with Multimate contacts.
Series 2 – High-density applications with size 20 DM and 20 DF contacts, .040" (1.02 mm) diameter
Series 3 – Power Contacts
Series 4 – Combination Size 16 and Power Contacts
Series 5 – Power Contacts .125 POWERBAND
Series 6 – Combination Size 16 and .125 POWERBAND Contacts

- Available in panel-mount, chassis-mount and free hanging versions
- Quick-connect/disconnect capability with thread assist, positive detent coupling
- Built-in pin and socket protection. Plug or socket half can be "hot", depending on connector sex
- 5-key polarization for proper mating of connector halves
- Full complement of optional accessories

Note: Contacts (pins and sockets) must be ordered separately, unless otherwise noted.

Series 1 and 2

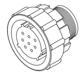
*** Standard Sex Plug**

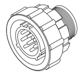
† Reverse Sex Plug

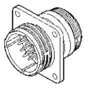
*** Standard Sex Square-Flange Receptacle**

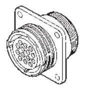
† Reverse Sex Square-Flange Receptacle

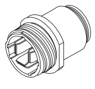
*** Standard Sex Free-Hanging Receptacle**

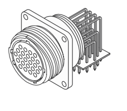
*** Standard Sex Square-Flange Right Angle Receptacle**

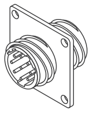
*** Standard Sex Feed-Thru Receptacle**

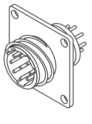
*** Standard Sex PC Mount**

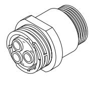
† Reverse Sex Free-Hanging Receptacle

Series 3

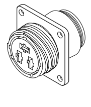
† Reverse Sex Square Flange Receptacle

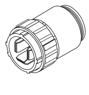
† Reverse Sex Plug

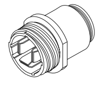
*** Standard Sex Free-Hanging Receptacle**

Series 5

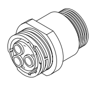
† Reverse Sex Free-Hanging Receptacle

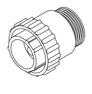
† Reverse Sex Plug

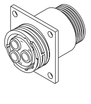
† Reverse Sex Square Flange Receptacle

Series 4

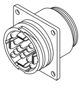
*** Standard Sex Square Flange Receptacle**

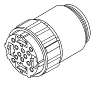
*** Standard Sex Plug**

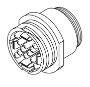
*** Standard Sex Free-Hanging Receptacle**

Series 6

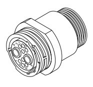
† Reverse Sex Free-Hanging Receptacle

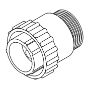
† Reverse Sex Plug

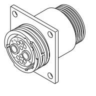
† Reverse Sex Square Flange Receptacle

Series 1

Shell Size 11 & 13

arr.11-4*

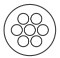
arr. 13-7

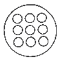
arr.13-9

Shell Size 17

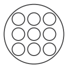
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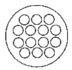
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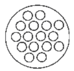
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Shell Size 23

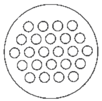
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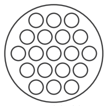
arr. 23-19

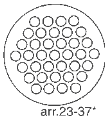
arr.23-37*

Series 2

Shell Size 11

arr. 11-8*

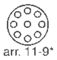
arr. 11-9*

Shell Size 17

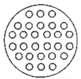
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Shell Size 23

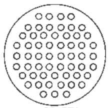
arr. 23-57*

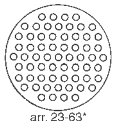
arr. 23-63*

Series 3

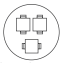
Shell Size 17
Arr. 17-3

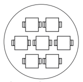
Shell Size 23
Arr. 23-7

Series 4

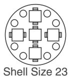
Shell Size 23
Arr. 23-13M

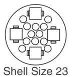
Shell Size 23
Arr. 23-16M

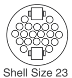
Shell Size 23
Arr. 23-22M

Series 5

Shell Size 17
Arr 17-3

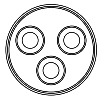

Series 6

Shell Size 17
Arr 17-10

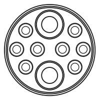

* **Standard Sex:** Pin contacts in receptacle housings; socket contacts in plug housings † **Reverse Sex:** Socket contacts in receptacle housings; pin contacts in plug housings.

Series 1 (Shell Only)

RoHS COMPLIANT

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Receptacle-Square Flanged	A1360-ND	2.38	2.21	206430-1
		Rev.	Receptacle-Free Hanging	A1361-ND	2.38	2.21	206430-2
		Rev.	Receptacle-Square Flanged w/ Inserts	A25053-ND	5.41	5.02	211102-1
		Rev.	Plug	A1357-ND	2.93	2.72	206429-1
		Rev.	Plug	A99519-ND	2.93	2.72	182651-1
		Std.	Receptacle-Square Flanged	A1301-ND	2.28	2.11	206061-1
		Std.	Receptacle-Free Hanging	A1351-ND	2.48	2.30	206153-1
		Std.	Receptacle-Free Hanging	A99547-ND	2.58	2.40	182919-1
		Std.	Plug	A1300-ND	2.89	2.68	206060-1
		Std.	Plug	A99537-ND	2.89	2.68	182647-1
13	9	Std.	Receptacle-Square Flanged	A1303-ND	2.44	2.27	206705-1
		Std.	Receptacle-Free Hanging	A1352-ND	2.50	2.32	206705-2
		Std.	Plug	A1302-ND	3.16	2.93	206708-1
		Std.	Plug	A99536-ND	3.65	3.39	182645-1
17	9	Rev.	Receptacle-Free Hanging	A99559-ND	3.96	3.67	211769-3
	14	Rev.	Receptacle-Square Flanged	A1362-ND	2.60	2.42	206043-1
		Rev.	Receptacle-Free Hanging	A1363-ND	3.32	3.08	206043-3
		Rev.	Plug	A1358-ND	3.28	3.04	206044-1
		Rev.	Plug	A99538-ND	3.28	3.04	182649-1
	14	Std.	Plug	A99555-ND	3.94	3.65	183039-1
	16	Std.	Receptacle-Square Flanged	A1305-ND	2.60	2.42	206036-1
		Std.	Receptacle-Free Hanging	A1353-ND	2.60	2.42	206036-3
		Std.	Receptacle-Free Hanging	A99558-ND	2.19	2.04	183077-1
		Std.	Receptacle-Feed-Thru	A25058-ND	42.41	39.32	206552-1
		Std.	Plug-Reverse Numbering	A25057-ND	5.21	4.83	206554-1
		Std.	Plug	A1304-ND	3.28	3.04	206037-1
		Std.	Plug	A99535-ND	3.28	3.04	182642-1
23	24	Std.	Receptacle-Square Flanged	A1354-ND	3.28	3.04	206838-1
		Std.	Receptacle-Free Hanging	A1355-ND	4.43	4.11	206838-2
		Std.	Plug	A1350-ND	4.22	3.92	206837-1
	37	Rev.	Receptacle-Square Flanged	A1364-ND	2.99	2.78	206306-1
		Rev.	Receptacle-Free Hanging	A1365-ND	3.83	3.56	206306-2
		Rev.	Plug	A1359-ND	3.73	3.46	206305-1
		Rev.	Plug	A99552-ND	2.48	2.30	182926-1
		Std.	Receptacle-Square Flanged	A1307-ND	2.99	2.78	206151-1
		Std.	Receptacle-Free Hanging	A1356-ND	3.30	3.06	206151-2
		Std.	Plug	A1306-ND	3.73	3.46	206150-1
		Std.	Plug	A99551-ND	3.71	3.44	182923-1

(Continued)

Series 1 (Shell and Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Contact Finish: Duplex plated gold flash on entire contact with 30µ" minimum gold on contact engagement area, tin-lead on the termination area, all over 50µ" minimum nickel under plating.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Square Flange Receptacle	A25054-ND	8.92	8.27	208283-1
		Rev.	Square Flange Receptacle	A33740-ND◆	8.92	8.27	208283-4
13	9	Std.	Square Flange Receptacle	A25055-ND	6.97	6.46	208223-1
		Std.	Square Flange Receptacle	A33741-ND◆	6.97	6.46	208223-9
17	16	Std.	Square Flange Receptacle	A25056-ND	12.92	11.97	207303-3
		Std.	Square Flange Receptacle	A33742-ND◆	14.68	13.61	1-207303-3

◆ ***RoHS Compliant***

Series 1 (Shell and Contacts) - PC Mount with .045" (1.14mm) Square Solder Tails – For Higher Current Applications

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
13	7	Std.	Square Flange Right Angle Receptacle	A98555-ND	14.94	13.86	1776903-1
17	16	Std.		A98556-ND	26.14	24.23	1776904-1
23	24	Std.		A98557-ND	34.54	32.02	1776905-1
23	37	Std.		A98558-ND	48.18	44.65	1776906-1

Series 1 (Shell Only) - VDE Tested Connectors

Designed to meet requirements of VDE as shown in DIN Specification 57627. Recognized under the Component Program of UL for 600VAC & 600VDC service, File No. E28476. Certified by CSA, File No. LR7189.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Receptacle-Square Flanged	A99549-ND	3.65	3.39	182921-1
		Std.	Receptacle-Square Flanged	A99545-ND	3.03	2.82	182917-1
13	7	Std.	Receptacle-Square Flanged	A1635-ND	4.28	3.98	211401-1
		Std.	Plug	A1638-ND	3.83	3.56	211399-1
		Rev.	Receptacle-Square Flanged	A1641-ND	3.75	3.48	211398-1
		Rev.	Plug	A1644-ND	4.47	4.15	211400-1
	9	Std.	Receptacle-Square Flanged	A99550-ND	2.44	2.27	182922-1
17	9	Std.	Receptacle-Square Flanged	A1636-ND	3.94	3.65	211767-1
		Std.	Plug	A1639-ND	5.15	4.77	211766-1
		Rev.	Receptacle-Square Flanged	A1642-ND	4.35	4.03	211769-1
		Rev.	Plug	A1645-ND	4.65	4.32	211768-1
	14	Rev.	Receptacle-Square Flanged	A99534-ND	2.60	2.42	182641-1
		Std.	Receptacle-Square Flanged	A99556-ND	2.89	2.68	183040-1
	16	Std.	Receptacle-Square Flanged	A99544-ND	2.89	2.68	182916-1
23	19	Std.	Receptacle-Square Flanged	A1637-ND	5.13	4.75	211771-1
		Std.	Plug	A1640-ND	6.27	5.82	211770-2
		Rev.	Receptacle-Square Flanged	A1643-ND	4.31	3.99	211773-1
		Rev.	Plug	A1646-ND	5.13	4.75	211772-1
	24	Std.	Receptacle-Square Flanged	A99557-ND	3.94	3.65	183075-1
	37	Rev.	Receptacle-Square Flanged	A99548-ND	3.79	3.52	182920-1
		Std.	Receptacle-Square Flanged	A99546-ND	3.22	2.99	182918-1

Series 1 (Shell Only) - Sealed Receptacle Connectors

Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE for environmentally sealed connectors used in industrial applications.

Operating Temperature Range: -50°C ~ 125°C **Voltage Rating:** 600V (AC or DC) **Contacts:** 13 amps., single contact rating at 30°C T-Rise **Flammability Rating:** UL 94V-0 rated **Sealing Capability:** Per IP66 and IP67 **Housing Material:** Black, high strength, impact resistant thermoplastic **Seal:** Gray Elastomer **Fluid Resistance:** Diesel fuel, gear and engine fuel, gasoline, anti-freeze, hydraulic fluid, water

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Square Flange	A1675-ND	2.46	2.28	206430-3
		Rev.	Free-Hanging	A1676-ND	4.74	4.39	206430-4
		Std.	Square Flange	A25038-ND	4.72	4.37	206061-2
13	9	Std.	Square Flange	A1669-ND	4.16	3.86	206705-3
		Std.	Free-Hanging	A1670-ND	4.06	3.77	206705-4
17	14	Rev.	Square Flange	A1677-ND	2.62	2.44	206043-4
		Rev.	Free-Hanging	A1678-ND	4.82	4.47	206043-5
	16	Std.	Square Flange	A1671-ND	5.19	4.81	206036-4
		Std.	Free-Hanging	A1672-ND	3.81	3.54	206036-5
23	24	Std.	Square Flange	A1673-ND	4.47	4.15	206838-3
		Std.	Free-Hanging	A1674-ND	4.92	4.56	206838-4
	37	Std.	Square Flange	A25049-ND	3.71	3.44	206151-3

Series 2 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	8	Std.	Receptacle-Square Flanged	A1366-ND	4.18	3.88	205841-1
		Std.	Receptacle-Free Hanging	A1367-ND	4.18	3.88	205841-2
		Std.	Plug	A1368-ND	5.02	4.66	205838-1
		Std.	Receptacle-Feed-Thru	A25048-ND	32.53	30.16	206458-1
		Rev.	Receptacle-Square Flanged	A1369-ND	4.22	3.92	206433-1
		Rev.	Receptacle-Free Hanging	A1370-ND	4.22	3.92	206433-2
		Rev.	Plug	A1371-ND	5.02	4.66	206434-1
	9	Std.	Receptacle-Square Flanged	A1372-ND	4.10	3.80	206486-1
		Std.	Receptacle-Free Hanging	A1373-ND	4.22	3.92	206486-2
		Std.	Plug	A1374-ND	4.92	4.56	206485-1
17	28	Std.	Receptacle-Square Flanged	A1375-ND	4.53	4.20	205840-3
		Std.	Plug-Reverse Numbering	A25045-ND	9.74	9.03	206126-1
		Std.	Receptacle-Free Hanging	A1376-ND	5.43	5.04	206152-1
		Std.	Receptacle-Feed-Thru	A25046-ND	46.51	43.12	206127-1
		Std.	Plug - Dia. 1.349 (34.26) max.	A1377-ND	5.35	4.96	205839-3
		Std.	Plug - Dia. 1.315 (33.40) max.	A25044-ND	9.74	9.03	206125-1
		Rev.	Receptacle-Square Flanged	A1378-ND	4.41	4.09	206038-1
		Rev.	Receptacle-Free Hanging	A1379-ND	5.45	5.06	206038-2
		Rev.	Plug	A1380-ND	5.23	4.85	206039-1
23	57	Rev.	Receptacle-Square Flanged	A1381-ND	6.97	6.46	206438-1
		Rev.	Receptacle-Free Hanging	A1382-ND	11.30	10.47	206438-2
		Rev.	Plug	A1383-ND	7.20	6.67	206437-1
	63	Std.	Receptacle-Square Flanged	A1384-ND	6.66	6.18	205843-1
		Std.	Receptacle-Free Hanging	A1385-ND	7.07	6.56	205843-2
		Std.	Plug	A1386-ND	7.11	6.60	205842-1

Series 2 (Shell and Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Shell Size	No. of Contacts	Sex	Contact Finish	Description	Digi-Key Part No.	Price Each		AMP Part No.
						1	25	
11	8	Rev.	A	Receptacle-Square Flanged	A25040-ND	10.84	10.06	208657-1
		Rev.	A	Receptacle-Square Flanged	A33743-ND◆	10.93	10.13	1-208657-1
	9	Std.	A	Receptacle-Square Flanged	A25041-ND	11.32	10.49	206852-2
17	28	Rev.	B	Receptacle-Square Flanged	A25042-ND	18.53	17.18	207216-2
		Rev.	B	Receptacle-Square Flanged	A33744-ND◆	18.45	17.10	1-207216-6
23	63	Std.	A	Receptacle-Square Flanged	A25043-ND	34.93	32.38	206455-2
		Std.	A	Receptacle-Square Flanged	A33745-ND◆	34.17	31.68	1-206455-2

A - Duplex plated gold flash on entire contact with 30µ" min. gold on contact engagement area, tin-lead on the termination area, all over 50µ" min. nickel under plating. **B** - Plated gold flash on the entire contact, tin-lead on the termination area.

◆ ***RoHS Compliant***

Series 3 and 4 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
Series 3							
17	3	Std.	Receptacle-Square Flanged	A1681-ND	2.99	2.78	206036-2
		Std.	Receptacle-Free Hanging	A1683-ND	2.64	2.46	206207-1
		Std.	Plug	A1685-ND	3.85	3.58	206037-2
		Rev.	Receptacle-Square Flanged	A16015-ND	2.97	2.76	206425-1
		Rev.	Receptacle-Free Hanging	A16017-ND	4.00	3.71	206425-2
		Rev.	Plug	A16019-ND	5.08	4.72	206426-1
23	7	Std.	Receptacle-Square Flanged	A1682-ND	4.49	4.17	206137-1
		Std.	Receptacle-Free Hanging	A1684-ND	3.96	3.67	206137-2
		Std.	Plug	A1686-ND	4.20	3.90	206136-1
		Rev.	Receptacle-Square Flanged	A16016-ND	3.30	3.06	206227-1
		Rev.	Receptacle-Free Hanging	A16018-ND	2.91	2.70	206227-2
		Rev.	Plug	A16020-ND	4.26	3.96	206226-1
Series 4							
23	13	Std.	Receptacle-Square Flanged	A16029-ND	4.88	4.53	211825-1
		Std.	Receptacle-Free Hanging	A16032-ND	3.67	3.41	211825-2
		Std.	Plug	A16035-ND	7.40	6.86	211824-1
	16	Std.	Receptacle-Square Flanged	A16030-ND	3.10	2.87	207486-1
		Std.	Receptacle-Free Hanging	A16033-ND	4.67	4.34	207486-2
		Std.	Plug	A16036-ND	4.24	3.94	207485-1
	22	Std.	Receptacle-Square Flanged	A16031-ND	3.49	3.23	206613-1
		Std.	Receptacle-Free Hanging	A16034-ND	4.39	4.07	206613-3
		Std.	Plug	A16037-ND	5.08	4.72	206612-1

Series 5 and 6 Sealed

Sealed CPC connectors are the latest additions to the growing family of Circular Plastic Connectors. Sealed CPC connectors were developed as part of the Series 5 and 6 product line. Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE. Sealed CPC connectors incorporated the latest technology in thermoplastic design and use the POWERBAND precision formed high current contact.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
Series 5							
17	3	Rev.	Square Flange, Receptacles	A25781-ND	6.54	6.07	213889-2
	3	Rev.	Free-Hanging, Receptacles	A25782-ND	6.54	6.07	213890-2
	3	Rev.	Plug Assembly	A25783-ND	6.38	5.91	213905-1
Series 6							
17	10	Rev.	Square Flange, Receptacles	A25785-ND	4.49	4.17	213893-2
	10	Rev.	Free-Hanging, Receptacles	A25786-ND	6.33	5.88	213894-2
	10	Rev.	Plug Assembly	A25787-ND	8.84	8.19	213906-1

(Continued)

Accessories

Fig. 1

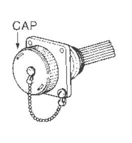

Fig. 2

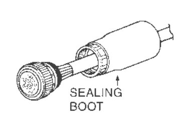

Fig. 3

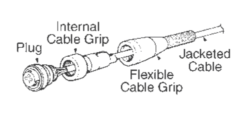

Fig. 4

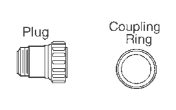

Fig. 5

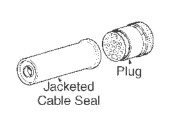

Fig. 6

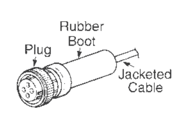

Fig. 7

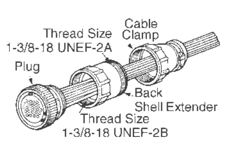

Fig. 8

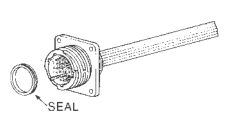

Fig. 9

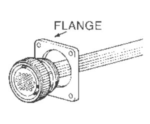

Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	23	A16041-ND	4.90	4.55	207446-1
	Sealing Cap for Receptacles, Metal Bead Chain	11	A16042-ND	6.46	5.99	208800-1
	Sealing Cap for Receptacles, Metal Bead Chain	13	A16043-ND	7.38	6.84	213485-1
	Sealing Cap for Receptacles, Metal Bead Chain	17	A16044-ND	6.66	6.18	208652-1
	Sealing Cap for Receptacles, Metal Bead Chain	23	A16045-ND	6.99	6.48	208680-1
	Sealing Cap for Receptacles, Metal Bead Chain	23	A20537-ND†	9.20	8.54	208680-2
2	Heat Shrinkable Sealing Boot, .260" ~ .600"	11	A16046-ND	9.78	9.07	54010-1
	Heat Shrinkable Sealing Boot, .300" ~ .725"	13	A16047-ND	10.17	9.43	54123-1
	Heat Shrinkable Sealing Boot, .400" ~ .875"	17	A16048-ND	9.98	9.26	54011-1
	Heat Shrinkable Sealing Boot, .400" ~ .875"	17	A99560-ND	10.41	9.66	54011-3
	Heat Shrinkable Sealing Boot, .250" ~ .500"	17	A16060-ND‡	6.03	5.59	213933-1
	Heat Shrinkable Sealing Boot, .500" ~ 1.25"	23	A16049-ND	11.54	10.70	54012-1
3	Flexible Cable Boot, Black Thermoplastic	11	A16050-ND	2.99	2.78	207489-1
	Flexible Cable Boot, Black Thermoplastic	17	A16052-ND	4.63	4.30	207241-1
	Internal Cable Grip, Black Thermoplastic	11	A16051-ND	3.36	3.12	207490-1
	Internal Cable Grip, Black Thermoplastic 8.25mm	17	A16053-ND	4.31	3.99	207387-1
	Internal Cable Grip, Black Thermoplastic 9.78mm	17	A16054-ND	4.14	3.84	207387-2
4	Replacement Coupling Ring	11	A16055-ND	1.05	.98	213811-1
	Replacement Coupling Ring	13	A16056-ND	1.54	1.43	213813-1
	Replacement Coupling Ring	17	A16057-ND	1.22	1.13	213810-1
	Replacement Coupling Ring	23	A16058-ND	1.97	1.83	213812-1
5	Jacketed Cable Seal, Cable Diameter 7.62mm	23	A16063-ND	11.73	10.87	207052-1
	Jacketed Cable Seal, Cable Diameter 11.43mm	23	A16064-ND	23.94	22.20	207052-2
	Jacketed Cable Seal, Cable Diameter 15.24mm	23	A16065-ND	13.33	12.35	207052-3
6	Rubber Boots	11	A16059-ND§	5.78	5.36	206304-1
7	Back Shell Extender	23	A16062-ND	4.65	4.32	207055-1
8	Peripheral Seals for Receptacles Only	11	A1335-ND	.70	.65	206403-1
	Peripheral Seals for Receptacles Only	13	A1336-ND	.96	.90	206403-4
	Peripheral Seals for Receptacles Only	17	A1337-ND	.73	.68	206403-2
	Peripheral Seals for Receptacles Only	23	A1338-ND	1.34	1.25	206403-3
9	Panel Mount Flanges for Plugs Only	11	A25003-ND	5.56	5.15	207299-1
	Panel Mount Flanges for Plugs Only	13	A25004-ND	4.61	4.28	207299-2
	Panel Mount Flanges for Plugs Only	17	A25019-ND	4.82	4.47	207299-3
	Panel Mount Flanges for Plugs Only	23	A25020-ND	3.05	2.84	207299-4
—	Flange Gasket	11	A30707-ND	.66	.62	81665-3
	Flange Gasket	13	A30705-ND	.67	.62	81665-4
	Flange Gasket	17	A25784-ND	.67	.63	81665-2
	Flange Gasket	23	A30706-ND	.72	.67	81665-5
—	Keying Plug, Series 1 and 4		A16066-ND	.20	.19	200821-1
	Keying Plug, Series 2		A16067-ND	.40	.38	206509-1
	Keying Plug, Series 3 and 4 (Socket Cavities)		A16068-ND	.80	.74	206508-1
	Keying Plug, Series 3 and 4 (Pin Cavities)		A16069-ND	2.21	2.06	207597-1

§ Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 and 3 connectors (black neoprene). † For use with series 2 only ‡ Thin Wall Boot

Wire Entry Seal Kits

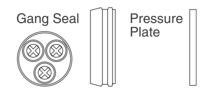

Includes one Gang Seal and one pressure plate marked for cavity identification.

Material and Finish:
Seal - Elastomer, red iron oxide. Pressure Plate - Nylon, black

Arrange-ment	Insulation Diameter Inch (mm)	Seal Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
Kit for Pins							
13-9	.075 ~ .125 (1.91 ~ 3.18)	.681 (17.30)	A25059-ND	6.25	5.80	5.07	213926-1
17-3	.178 ~ .265 (4.52 ~ 6.73)	.790 (20.07)	A25060-ND	7.30	6.77	5.91	213899-1
17-10	.150 ~ .265 (3.81 ~ 6.73)	.790 (20.07)	A25788-ND	5.27	4.89	4.27	213900-1
17-14	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25061-ND	6.38	5.91	5.17	213919-2
17-16	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25062-ND	6.38	5.91	5.17	213920-2
Kit for Sockets							
13-9	.075 ~ .125 (1.91 ~ 3.18)	.681 (17.30)	A25063-ND	6.25	5.80	5.07	213925-1
17-3	.178 ~ .265 (4.52 ~ 6.73)	.790 (20.07)	A25060-ND	7.30	6.77	5.91	213899-1
17-10	.150 ~ .265 (3.81 ~ 6.73)	.790 (20.07)	A25788-ND	5.27	4.89	4.27	213900-1
17-14	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25064-ND	4.74	4.39	3.84	213919-1
17-16	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25065-ND	11.15	10.34	9.04	213920-1

Cable Clamps – Plastic Shell

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

These may be used on all receptacles and plugs. Two screws included.

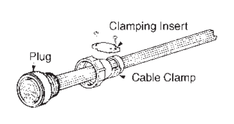

Shell Size	Cable Outer Diameter Inch (mm)	Screw Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	.329 (8.36)	.375 (9.53)	A1330-ND	4.26	3.96	206062-1
	.329 (8.36)	.375 (9.53)	A32514-ND◆	4.26	3.96	1-206062-6
	.329 (8.36)	.380 (9.65)	A99541-ND◆	6.89	6.39	182658-1
	.329 (8.36)	.500 (12.7)	A25021-ND	4.26	3.96	206062-3
	.329 (8.36)	.500 (12.7)	A32515-ND◆	4.26	3.96	1-206062-4
	.453 (11.51)	.500 (12.7)	A1687-ND	4.26	3.96	206358-1
	.453 (11.51)	.500 (12.7)	A32518-ND◆	4.26	3.96	206358-5
	.453 (11.51)	.500 (12.7)	A99553-ND◆	5.13	4.75	182928-1
13	.453 (11.51)	.500 (12.7)	A1331-ND	4.33	4.01	206966-1
	.453 (11.51)	.500 (12.7)	A32519-ND◆	4.33	4.01	206966-7
	.453 (11.51)	.500 (12.7)	A99543-ND◆	7.87	7.30	182663-1
	.703 (17.86)	.625 (15.88)	A1688-ND	4.49	4.17	207008-1
	.703 (17.86)	.625 (15.88)	A33751-ND◆	4.49	4.17	207008-5
17	.453 (11.51)	.500 (12.7)	A1332-ND	4.33	4.01	206070-1
	.453 (11.51)	.500 (12.7)	A32516-ND◆	4.33	4.01	206070-8
	.453 (11.51)	.500 (12.7)	A99540-ND◆	7.15	6.64	182655-1
	.703 (17.86)	.625 (15.88)	A1689-ND	4.74	4.39	206322-1
	.703 (17.86)	.625 (15.88)	A99542-ND◆	8.57	7.95	182661-1
23	.703 (17.86)	.625 (15.88)	A1334-ND	4.45	4.13	206138-1
	.703 (17.86)	.625 (15.88)	A32517-ND◆	4.45	4.13	206138-8
	.703 (17.86)	.625 (15.88)	A99539-ND◆	8.08	7.49	182652-1
	1.125 (28.58)	.620 (15.75)	A99554-ND◆	6.72	6.24	182930-1
	1.125 (28.58)	.625 (15.88)	A1690-ND	5.62	5.21	206512-1
	1.125 (28.58)	.625 (15.88)	A32502-ND◆	5.62	5.21	206512-5
	1.125 (28.58)	1.00 (25.4)	A16061-ND†	6.48	6.01	207774-1
	1.125 (28.58)	1.00 (25.4)	A33752-ND◆†	6.68	6.20	207774-3

◆ ***RoHS Compliant*** † Self-Centering

Right Angle Cable Clamps

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings. These may be used on all receptacles and plugs. Two screws included.

Right Angle Cable Clamp With Cover

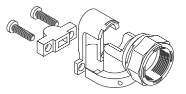

Right Angle Cable Clamp Without Cover

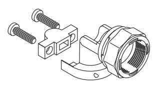

Shell Size	Cable Outer Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Cable Clamp with Cover					
11	.329 (8.36)	A31208-ND	7.34	6.81	1546347-1
	.329 (8.36)	A32501-ND◆	7.34	6.81	1546347-2
13	.453 (11.51)	A31209-ND	6.44	5.97	1546348-1
	.453 (11.51)	A33753-ND◆	7.15	6.64	1546348-2
17	.453 (11.51)	A31210-ND	6.44	5.97	1546349-1
	.453 (11.51)	A33754-ND◆	7.46	6.92	1546349-2
23	.703 (17.86)	A31211-ND	6.81	6.31	1546350-1
	.703 (17.86)	A33755-ND◆	6.81	6.31	1546350-2
Cable Clamp without Cover					
11	.329 (8.36)	A31212-ND	5.56	5.15	796379-1
	.329 (8.36)	A33756-ND◆	6.58	6.10	796379-2
13	.453 (11.51)	A31213-ND	5.62	5.21	796380-1
	.453 (11.51)	A33757-ND◆	5.62	5.21	796380-2
17	.453 (11.51)	A31214-ND	5.62	5.21	796381-1
	.453 (11.51)	A33758-ND◆	5.62	5.21	796381-2
23	.703 (17.86)	A31215-ND	6.07	5.63	796382-1
	.703 (17.86)	A33759-ND◆	6.07	5.63	796382-2

◆ ***RoHS Compliant***

AMP Contacts (Pins and Sockets)

CONTACT FINISH:
A Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact
B Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab
C 15µ gold in the mating area over 50µ nickel
D Selective gold, 30µ gold over 30µ nickel
E .000100" (0.00254mm) silver-plated contacts with lubricant added
F Bright tin-lead on entire contact
G Selective gold with 30µ gold on electrical engagement area with 10µ on the remainder over 50µ nickel
H Bright tin on entire contact
J Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin on solder tab

Series 1 Signal, Type III+, Precision Formed

Pin Diameter: .062" (1.57mm) **Test Current:** 13A **Materials:** Crimp Contacts: Brass; Solder Contacts and Grounding Pin: Copper alloy, plated tin or gold; Spring: Stainless steel

Fig. 1 – Crimp

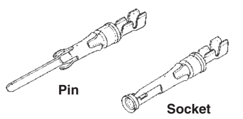

Fig. 2 – Solder Type

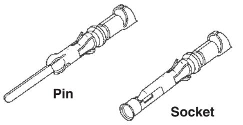

Fig. 3 – Solder Tab

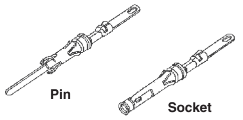

Fig. 4 – Wire Wrap

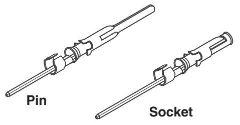

Tail Length Inches (mm)	AMP Pin Part No.	AMP Socket Part No.
.622 (15.80)	6-66460-5	5-66461-4
.831 (21.11)	6-66460-7	5-66461-8
1.020 (25.91)	6-66460-6	5-66461-9
.622 (15.80)	6-66460-2	5-66461-5
.831 (21.11)	6-66460-3	6-66461-2
1.020 (25.91)	6-66460-4	6-66461-3

Series 2

Pin Diameter: .040" (1.02mm) **Test Current:** 7.5A **Materials:** Pin Body: Brass; Socket: Phosphor bronze

Fig. 5 – Crimp With Insulation Support

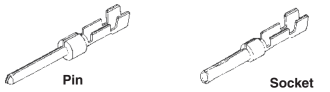

Fig. 6 – Solder Cup

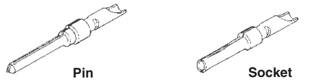

Series 3

Fig. 7 – Power Contacts

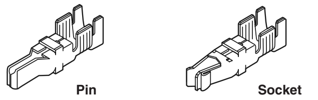

Desc.	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.	AMP Tooling Part No.
					10	100			100	500		Qty.	Pricing		
Fig. 1, Series 1															
Pin	30 ~ 26	.040 ~ .060	H	—	—	—	—	A31999CT-ND◆	51.37	235.43	A31999TR-ND◆	4,000	256.83/M	1-66425-2	91515-1
Socket	30 ~ 26	.040 ~ .060	F	—	—	—	—	A33760CT-ND◆	70.75	324.28	A33760TR-ND◆	4,000	353.76/M	1-66424-1	91515-1
Pin	30 ~ 26	.040 ~ .060	C	—	—	—	—	A25088CT-ND◆	78.91	361.68	A25088TR-ND◆	4,000	394.56/M	66425-7	91515-1
Socket	30 ~ 26	.040 ~ .060	C	A25089-ND◆	20.37	142.28	66428-3	A25089CT-ND◆	96.68	443.11	A25089TR-ND◆	4,000	483.39/M	66424-7	91515-1
Pin	30 ~ 26	.040 ~ .060	A	A25092-ND◆	16.16	112.88	66429-4	A25092CT-ND◆	108.32	496.44	A25092TR-ND◆	4,000	541.58/M	66425-8	91515-1
Socket	30 ~ 26	.040 ~ .060	A	A25093-ND◆	25.39	177.33	66428-4	A25093CT-ND◆	88.51	405.67	A25093TR-ND◆	4,000	442.55/M	66424-8	91515-1
Pin	30 ~ 26	.014 ~ .030	A	A25097-ND◆	15.44	107.86	66406-4	A25097CT-ND◆	78.98	362.00	A25097TR-ND◆	4,000	394.91/M	66393-8	—
Socket	30 ~ 26	.014 ~ .030	A	A25098-ND◆	19.07	133.22	66405-4	A25098CT-ND◆	99.79	457.37	A25098TR-ND◆	4,000	498.95/M	66394-8	—
Pin	26 ~ 24	.035 ~ .055	H	A31991-ND◆	4.40	30.75	1-66107-1	A31991CT-ND◆	46.59	213.54	A31991TR-ND◆	4,000	232.95/M	1-66106-5	58495-1
Socket	26 ~ 24	.035 ~ .055	H	A31992-ND◆	8.42	58.83	1-66109-7	A31992CT-ND◆	60.75	278.44	A31992TR-ND◆	4,000	303.75/M	1-66108-5	58495-1
Pin	26 ~ 24	.035 ~ .055	C	A25103-ND◆	9.52	66.49	66107-3	A25103CT-ND◆	71.27	326.65	A25103TR-ND◆	4,000	356.34/M	66106-7	58495-1
Socket	26 ~ 24	.035 ~ .055	C	A25104-ND◆	10.84	75.70	66109-3	A25104CT-ND◆	88.57	405.93	A25104TR-ND◆	4,000	442.83/M	66108-7	58495-1
Pin	26 ~ 24	.035 ~ .055	A	A1344-ND◆	10.02	69.99	66107-4	A1344CT-ND◆	72.77	333.51	A1344TR-ND◆	4,000	363.83/M	66106-8	58495-1
Pin	26 ~ 24	.035 ~ .055	H	A99530-ND◆	17.33	121.02	163090-1	—	—	—	—	—	—	—	58495-1
Pin	26 ~ 24	.035 ~ .055	A	A99531-ND◆	22.89	159.88	163090-2	—	—	—	—	—	—	—	58495-1
Socket	26 ~ 24	.035 ~ .055	A	A99533-ND◆	27.60	192.80	163092-2	—	—	—	—	—	—	—	58495-1
Pin	24 ~ 20	.040 ~ .080	G	A29109-ND◆	15.34	107.15	66103-1	A29109CT-ND◆	122.23	560.20	A29109TR-ND◆	4,000	611.13/M	66102-6	58495-1
Pin	24 ~ 20	.040 ~ .080	H	A31989-ND◆	4.36	30.44	1-66103-8	A31989CT-ND◆	49.19	225.43	A31989TR-ND◆	4,000	245.93/M	2-66102-5	58495-1
Socket	24 ~ 20	.040 ~ .080	H	A31990-ND◆	5.16	36.06	1-66105-9	A31990CT-ND◆	58.41	267.71	A31990TR-ND◆	4,000	292.05/M	3-66104-0	58495-1
Pin	24 ~ 20	.040 ~ .080	C	A25107-ND◆	9.53	66.56	66103-3	A25107CT-ND◆	70.31	322.23	A25107TR-ND◆	4,000	351.53/M	66102-8	58495-1
Socket	24 ~ 20	.040 ~ .080	C	A25108-ND◆	11.39	79.54	66105-3	A25108CT-ND◆	91.34	418.63	A25108TR-ND◆	4,000	456.69/M	66104-8	58495-1
Pin	24 ~ 20	.040 ~ .080	A	A1342-ND◆	10.53	73.58	66103-4	A1342CT-ND◆	80.54	369.12	A1342TR-ND◆	4,000	402.68/M	66102-9	58495-1
Socket	24 ~ 20	.040 ~ .080	A	A1343-ND◆	12.58	87.88	66105-4	A1343CT-ND◆	97.14	445.21	A1343TR-ND◆	4,000	485.69/M	66104-9	58495-1
Pin	24 ~ 20	.045 ~ .070	H	A99527-ND◆	9.56	66.77	163086-1	—	—	—	—	—	—	—	58495-1
Pin	24 ~ 20	.045 ~ .070	A	A99528-ND◆	19.53	136.43	163086-2	—	—	—	—	—	—	—	58495-1
Socket	24 ~ 20	.045 ~ .070	H	A99529-ND◆	10.18	71.12	163088-1	—	—	—	—	—	—	—	58495-1
Pin	24 ~ 20	.060 ~ .120	H	A32008-ND◆	4.28	29.90	66566-7	A32008CT-ND◆	47.96	219.84	A32008TR-ND◆	4,000	239.82/M	1-66564-2	91542-1
Socket	24 ~ 20	.060 ~ .120	F	A25007-ND	7.40	51.66	66565-2	—	—	—	—	—	—	—	91542-1
Socket	24 ~ 20	.060 ~ .120	H	—	—	—	—	A32007CT-ND◆	60.75	278.45	A32007TR-ND◆	4,000	303.77/M	1-66563-1	91542-1
Pin	24 ~ 20	.060 ~ .120	A	A25115-ND◆	10.32	72.07	66566-4	A25115CT-ND◆	79.73	365.42	A25115TR-ND◆	4,000	398.64/M	66564-8	91542-1
Socket	24 ~ 20	.060 ~ .120	D	A25008-ND	11.70	81.69	66565-4	A25008CT-ND	107.77	493.93	A25008TR-ND	4,000	538.83/M	66563-8	91542-1
Pin	24 ~ 20	.080 ~ .100	H	A31996-ND◆	4.61	32.23	1-66400-0	A31996CT-ND◆	47.98	219.89	A31996TR-ND◆	4,000	239.88/M	1-66332-4	91523-1
Socket	24 ~ 20	.080 ~ .100	H	A31995-ND◆	5.16	36.06	1-66399-0	A31995CT-ND◆	59.10	270.88	A31995TR-ND◆	4,000	295.50/M	1-66331-4	91523-1
Pin	24 ~ 20	.080 ~ .100	G	A29110-ND	15.36	107.25	66400-2	—	—	—	—	—	—	—	91523-1
Pin	24 ~ 20	.080 ~ .100	C	A25121-ND◆	9.54	66.62	66400-3	A25121CT-ND◆	69.17	317.02	A25121TR-ND◆	4,000	345.84/M	66332-7	91523-1
Socket	24 ~ 20	.080 ~ .100	C	A25122-ND◆	11.39	79.54	66399-3	A25122CT-ND◆	93.13	426.84	A25122TR-ND◆	4,000	465.65/M	66331-7	91523-1
Pin	24 ~ 20	.080 ~ .100	A	A1648-ND◆	7.43	51.87	66400-4	A1648CT-ND◆	83.47	382.55	A1648TR-ND◆	4,000	417.33/M	66332-8	91523-1
Socket	24 ~ 20	.080 ~ .100	A	A1661-ND◆	8.87	61.93	66399-4	A1661CT-ND◆	97.70	447.77	A1661TR-ND◆	4,000	488.48/M	66331-8	91523-1
Pin	18 ~ 16	.080 ~ .100	H	A31987-ND◆	4.36	30.44	1-66099-5	A31987CT-ND◆	46.57	213.43	A31987TR-ND◆	4,000	232.83/M	1-66098-8	58495-1
Socket	18 ~ 16	.080 ~ .100	H	A31988-ND◆	5.16	36.06	1-66101-9	A31988CT-ND◆	47.13	216.01	A31988TR-ND◆	4,000	235.65/M	1-66100-9	58495-1
Pin	18 ~ 16	.080 ~ .100	C	A25123-ND◆	10.79	75.33	66099-3	A25123CT-ND◆	75.49	346.01	A25123TR-ND◆	4,000	377.46/M	66098-8	58495-1
Socket	18 ~ 16	.080 ~ .100	C	A25124-ND◆	11.40	79.62	66101-3	A25124CT-ND◆	102.66	470.53	A25124TR-ND◆	4,000	513.30/M	66100-8	58495-1
Pin	18 ~ 16	.080 ~ .100	A	A1340-ND◆	10.51	73.40	66099-4	A1340CT-ND◆	79.01	362.13	A1340TR-ND◆	4,000	395.06/M	66098-9	58495-1
Socket	18 ~ 16	.080 ~ .100	A	A16080-ND◆	12.59	87.91	66101-4	A16080CT-ND◆	87.97	403.18	A16080TR-ND◆	4,000	439.83/M	66100-9	58495-1
Pin	18 ~ 16	.080 ~ .100	H	A99523-ND◆	8.48	59.22	163082-1	—	—	—	—	—	—	—	58495-1
Pin	18 ~ 16	.080 ~ .100	A	A99524-ND◆	17.33	121.03	163082-2	—	—	—	—	—	—	—	58495-1

◆ ***RoHS Compliant*** # Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap

(Continued)

AMP Contacts (Pins and Sockets) *(Cont.)*

Desc.	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape and Reel Qty.	Pricing	AMP Part No.	AMP Tooling Part No.
Socket	18 ~ 16	.080 ~ .100	H	A99525-ND◆	9.81	68.50	163084-1	—	—	—	—	—	—	—	58495-1
Socket	18 ~ 16	.080 ~ .100	A	A99526-ND◆	18.66	130.31	163084-2	—	—	—	—	—	—	—	58495-1
Pin	18 ~ 14	.080 ~ .100	H	A31998-ND◆	6.21	43.36	1-66361-2	A31998CT-ND◆	40.71	186.59	A31998TR-ND◆	4,000	203.55/M	1-66359-4	91519-1
Socket	18 ~ 14	.080 ~ .100	H	A31997-ND◆	7.27	50.77	1-66360-2	A31997CT-ND◆	57.52	263.62	A31997TR-ND◆	4,000	287.58/M	1-66358-6	91519-1
Pin	18 ~ 14	.080 ~ .100	C	A25127-ND◆	9.62	67.19	66361-3	A25127CT-ND◆	74.94	343.48	A25127TR-ND◆	4,000	374.70/M	66359-9	91519-1
Socket	18 ~ 14	.080 ~ .100	C	A25128-ND◆	14.24	99.47	66360-3	A25128CT-ND◆	88.67	406.41	A25128TR-ND◆	4,000	443.36/M	66358-9	91519-1
Pin	18 ~ 14	.080 ~ .100	A	A1650-ND◆	10.13	70.72	66361-4	A1650CT-ND◆	82.79	379.47	A1650TR-ND◆	4,000	413.97/M	1-66359-0	91519-1
Socket	18 ~ 14	.080 ~ .100	A	A1341-ND◆	11.09	77.45	66360-4	A1341CT-ND◆	92.26	422.85	A1341TR-ND◆	4,000	461.30/M	1-66358-0	91519-1
Pin	18 ~ 14	.110 ~ .150	H	A32009-ND◆	6.24	43.57	66602-8	A32009CT-ND◆	47.20	216.32	A32009TR-ND◆	4,000	235.98/M	66597-8	91521-1
Socket	18 ~ 14	.110 ~ .150	F	A25130-ND	7.54	52.65	66601-1	—	—	—	—	—	—	—	91521-1
Socket	18 ~ 14	.110 ~ .150	H	—	—	—	—	A32012CT-ND◆	49.35	226.20	A32012TR-ND◆	4,000	246.77/M	66598-9	91521-1
Pin	18 ~ 14	.110 ~ .150	A	A25131-ND◆	10.05	70.23	66602-2	A25131CT-ND◆	74.39	340.93	A25131TR-ND◆	4,000	371.93/M	66597-2	91521-1
Socket	18 ~ 14	.110 ~ .150	A	A25012-ND◆	11.29	78.85	66601-2	A25012CT-ND◆	101.65	465.89	A25012TR-ND◆	4,000	508.25/M	66598-2	91521-1
Fig. 1, Series 1 — Grounding Pin (make first - break last) — RoHS Compliant															
Pin	24 ~ 20	.045 ~ .070	A	A25133-ND	14.95	104.40	164163-2	—	—	—	—	—	—	—	58495-1
Pin	24 ~ 20	.045 ~ .070	H	A99520-ND	13.09	91.42	164163-1	—	—	—	—	—	—	—	58495-1
Pin	18 ~ 16	.078 ~ .098	A	A25600-ND	17.95	125.39	164164-2	A25600CT-ND	60.42	276.93	A25600TR-ND	5,000	302.10/M	164161-4	58495-1
Pin	18 ~ 16	.080 ~ .100	H	A99521-ND	8.89	62.11	164164-1	—	—	—	—	—	—	—	58495-1
Fig. 2, Series 1 — RoHS Compliant															
Pin	26 ~ 20	.005 ~ .024	A	A25136-ND	16.00	111.76	66182-1	—	—	—	—	—	—	—	—
Socket	26 ~ 20	.005 ~ .024	D	A25137-ND	20.13	140.62	66183-1	—	—	—	—	—	—	—	—
Pin	18 ~ 16	.030 ~ .055	A	A25138-ND	16.00	111.76	66180-1	—	—	—	—	—	—	—	—
Socket	18 ~ 16	.030 ~ .055	D	A25139-ND	20.13	140.62	66181-1	—	—	—	—	—	—	—	—
Fig. 3, Series 1															
Pin	—	—	B	A16081-ND	28.55	199.44	202236-1	—	—	—	—	—	—	—	—
Pin	—	—	B	A33761-ND◆	27.81	194.24	202236-7	—	—	—	—	—	—	—	—
Socket	—	—	J	A31983-ND◆	30.96	216.27	202237-7	—	—	—	—	—	—	—	—
Pin	—	—	H	A31982-ND◆	10.65	74.35	202236-5	—	—	—	—	—	—	—	—
Socket	—	—	H	A31984-ND◆	11.66	81.44	202237-5	—	—	—	—	—	—	—	—
Fig. 4, Series 1															
Pin	—	—	H	A32000-ND◆†	7.44	51.98	6-66460-5	—	—	—	—	—	—	—	—
Socket	—	—	H	A32005-ND◆†	7.66	53.51	5-66461-4	—	—	—	—	—	—	—	—
Pin	—	—	F	A33762-ND◆‡	5.84	39.26	6-66460-7	—	—	—	—	—	—	—	—
Socket	—	—	F	A29345-ND‡	7.87	52.97	66461-2	—	—	—	—	—	—	—	—
Socket	—	—	F	A33763-ND◆‡	7.30	49.10	5-66461-8	—	—	—	—	—	—	—	—
Pin	—	—	H	A32001-ND◆★	7.59	52.99	6-66460-6	—	—	—	—	—	—	—	—
Socket	—	—	F	A33764-ND◆★	7.30	49.10	5-66461-9	—	—	—	—	—	—	—	—
Pin	—	—	G	A32002-ND◆†	14.73	102.91	6-66460-2	—	—	—	—	—	—	—	—
Socket	—	—	G	A32006-ND◆†	12.06	84.23	5-66461-5	—	—	—	—	—	—	—	—
Pin	—	—	G	A32003-ND◆‡	10.96	76.52	6-66460-3	—	—	—	—	—	—	—	—
Socket	—	—	G	A33765-ND◆‡	10.02	67.42	6-66461-2	—	—	—	—	—	—	—	—
Pin	—	—	G	A32004-ND◆★	14.47	101.08	6-66460-4	—	—	—	—	—	—	—	—
Socket	—	—	G	A29348-ND★	11.03	74.21	66461-9	—	—	—	—	—	—	—	—
Socket	—	—	G	A33766-ND◆★	10.22	68.78	6-66461-3	—	—	—	—	—	—	—	—
Fig. 5, Series 2 — RoHS Compliant															
Pin	28 ~ 24	.040 max.	A	A1630-ND	3.34	23.36	66507-9	—	—	—	—	—	—	—	91503-1
Socket	28 ~ 24	.040 max.	A	A1632-ND	3.42	23.90	66505-9	—	—	—	—	—	—	—	91503-1
Socket	28 ~ 24	.040 max.	D	A31986-ND	5.25	36.68	1658538-1	A31986CT-ND	13.54	62.05	A31986TR-ND	10,000	60.93/M	1658538-3	91503-1
Pin	24 ~ 20	.050 max.	A	A1679-ND	2.63	23.52	66506-9	—	—	—	—	—	—	—	91503-1
Socket	24 ~ 20	.050 max.	A	A1680-ND	2.77	24.78	66504-9	—	—	—	—	—	—	—	91503-1
Pin	24 ~ 20	.050 max.	D	A1008-ND	3.70	33.10	1-66506-0	—	—	—	—	—	—	—	91503-1
Socket	24 ~ 20	.050 max.	A	A1009-ND	3.59	32.16	1-66504-0	—	—	—	—	—	—	—	91503-1
Socket	24 ~ 20	.050 max.	D	A31985-ND	2.64	18.42	1658537-2	A31985CT-ND	13.11	60.07	A31985TR-ND	10,000	58.99/M	1658537-1	91503-1
Fig. 6, Series 2 — RoHS Compliant															
Pin	18	—	D	A1028-ND	4.86	29.90	66570-3	—	—	—	—	—	—	—	—
Socket	—	—	D	A1029-ND	5.28	47.29	66569-3	—	—	—	—	—	—	—	—
Fig. 7, Series 3 — Crimp — RoHS Compliant															
Pin	16 ~ 12	.135 ~ .160	H	A31994-ND	30.55	213.38	66261-5	—	—	—	—	—	—	—	90382-2
Socket	16 ~ 12	.135 ~ .160	H	A32010-ND	57.20	399.52	2-66740-1	—	—	—	—	—	—	—	90382-2
Pin	16 ~ 12	.135 ~ .160	D	A16022-ND	90.03	628.79	66261-2	—	—	—	—	—	—	—	90382-2
Socket	16 ~ 12	.135 ~ .160	D	A16026-ND	99.78	696.89	66740-6	—	—	—	—	—	—	—	90382-2
Pin	16 ~ 12	.135 ~ .160	D	A25031-ND§	83.85	585.66	66262-2	—	—	—	—	—	—	—	90382-2
Pin	16 ~ 12	.135 ~ .160	E	A25032-ND#	37.70	263.32	66261-4	—	—	—	—	—	—	—	90382-2
Socket	16 ~ 12	.135 ~ .160	E	A25033-ND#	76.05	531.18	66740-2	—	—	—	—	—	—	—	90382-2
Pin	16 ~ 12	.135 ~ .160	E	A25034-ND§#	83.85	585.66	66262-4	—	—	—	—	—	—	—	90382-2
Pin	10	.190 ~ .220	H	A31993-ND	29.25	204.30	66259-5	—	—	—	—	—	—	—	90384-1
Socket	10	.190 ~ .220	H	A32011-ND	75.40	526.64	2-66741-1	—	—	—	—	—	—	—	90384-1
Pin	10	.190 ~ .220	D	A16024-ND	66.95	467.62	66259-2	—	—	—	—	—	—	—	90384-1
Socket	10	.190 ~ .220	D	A16028-ND	127.73	892.11	66741-6	—	—	—	—	—	—	—	90384-1
Pin	10	.190 ~ .220	E	A25035-ND#	39.00	272.40	66259-4	—	—	—	—	—	—	—	90384-1
Socket	10	.190 ~ .220	E	A25036-ND#	109.53	764.99	66741-2	—	—	—	—	—	—	—	90384-1
Pin	10	.190 ~ .220	D	A99522-ND◆§	107.58	751.37	66260-2	—	—	—	—	—	—	—	90384-1

◆ ***RoHS Compliant*** # Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap

AMP Series 1 Coaxial, Subminiature, Precision Formed, Crimp

Outer Shell: Brass per MIL-C-50
Center Conductor: Beryllium copper per QQ-C-553 (Pin); Brass per QQ-B-626 (Socket)
Inner Dielectric: Polypropylene
Retention Spring: Stainless steel per QQ-S-766
Ferrule: Tin-lead per MIL-T-10727 over copper per QQ-C-576
Contact Finish: Gold/nickel; gold/copper (outer shell and socket center conductor: 30µ gold over 50µ nickel; pin center conductor: 30µ gold over 100µ copper)

NOTE: A ferrule is required for each pin and socket.

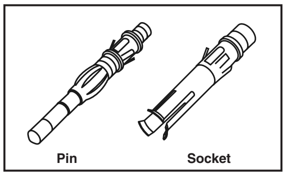

Coaxial Cable

Description	Cable Size RG/U	Digi-Key Part No.	Price Each			AMP Part No.
			1	10	100	
Contacts						
Pin	178, 196 196 (Double Braid)	A25144-ND	21.23	18.40	12.85	226537-2
Socket	178, 196 196 (Double Braid)	A25147-ND	15.71	13.62	9.52	51565-2
Pin	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25145-ND	14.59	12.65	8.84	226537-1
Socket	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25148-ND	16.13	13.98	9.77	51565-1
Ferrules						
178, 196 RG/U		A25150-ND	—	3.19	2.23	1-332057-0
174, 188, 316, 179, 187, 161 RG/U		A25151-ND	—	.85	.59	1-332056-0

Twisted Pair and Shielded Wire

Description	Cable Size RG/U	Digi-Key Part No.	Price Each			AMP Part No.
			1	10	100	
Contacts						
Pin	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25146-ND	15.75	13.65	9.54	226537-3
Socket	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25149-ND	25.84	22.40	15.65	51565-3
Pin	26 (Shielded, .075 Max. O.D.)	A25145-ND	14.59	12.65	8.84	226537-1
Socket	26 (Shielded, .075 Max. O.D.)	A25148-ND	16.13	13.98	9.77	51565-1
Ferrule						
Use for Twisted Pair and Shielded Wire		A25150-ND	—	3.19	2.23	1-332057-0

AMP Series 1 Signal, Type II, Screw Machined, Crimp

Pin Diameter: 1.57
Test Current: 13A
Contact Body: Brass
Retention Spring: Stainless steel
Contact Finish: 30µ gold over 50µ nickel. Gold thickness controlled on socket O.D.

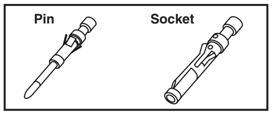

Description	Wire Size AWG	Insulation Dia. Inch	Required Hand Tool	Digi-Key Part No.	Price Each			AMP Part No.
					1	10	100	
Crimp								
Pin	28-24	.035-.055	91538-1	A25110-ND	5.41	4.69	3.28	201611-1
Socket	28-24	.035-.055	91538-1	A25112-ND	6.18	5.36	3.75	201613-1
Pin	24-20	.040-.062	91538-1	A25114-ND	3.22	2.80	1.96	201578-1
Socket	24-20	.040-.062	91538-1	A25116-ND	3.15	2.74	1.91	201580-1
Pin	24-20	.055-.088	91538-1	A25132-ND	4.42	3.83	2.68	201330-1
Socket	24-20	.055-.088	91538-1	A25541-ND	4.94	4.28	2.99	201328-1
Pin	18-16	.080-.105	90136-1	A25542-ND	2.58	2.24	1.57	202507-1
Socket	18-16	.080-.105	90136-1	A25543-ND	5.81	5.04	3.52	202508-1
Pin	18-16	No Ins. Support	91539-1	A25540-ND	4.61	4.00	2.80	200336-1
Socket	18-16		91539-1	A25539-ND	5.76	5.00	3.49	200333-1
Pin	18-16	No Ins. Support	91539-1	A25140-ND	6.53	5.66	3.95	204219-1
Pin	14	No Ins. Support	91539-1	A25141-ND	4.47	3.88	2.71	201570-1
Socket	14		91539-1	A25142-ND	6.53	5.66	3.95	201568-1
Pin	14	No Ins. Support	—	A25143-ND*	10.88	9.43	6.59	212618-1
Hand Tools								
Certi-Crimp Tool with Dies				A29951-ND	603.45/1			91538-1
Certi-Crimp Tool with Dies				A29952-ND	4928.56/1			90136-1
Certi-Crimp Tool with Dies				A29953-ND	603.45/1			91539-1
PRO-CRIMPER™ II with Dies				A30235-ND	519.75/1			58541-1

* Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves.

AMP .125 POWERBAND™ Contacts for Sealed Connectors

Test Current: 45A **Pin Diameter:** .125 **Contact Body:** Copper with beryllium copper spring
Contact Finish:
A: Post plated 30µ in mating area with 5µ minimum gold on remainder of contact, all over 100µ minimum nickel
B: Post plated 200µ silver in mating area with 5µ minimum gold on remainder of contact, all over 100µ minimum nickel

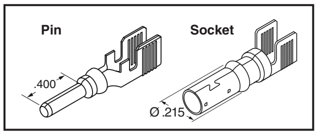

Description	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each		AMP Part No.
				1	10	
Pin	14-12	A	A25066-ND	6.41	5.56	213845-4
Socket	14-12	A	A25067-ND	7.39	6.41	213847-4
Pin	14-12	B	A25068-ND	5.18	4.49	213845-3
Socket	14-12	B	A25069-ND	9.49	8.23	213847-3
Pin	10-8	A	A25070-ND	5.14	4.46	213841-4
Socket	10-8	A	A25071-ND	7.39	6.41	213843-4
Pin	10-8	B	A25072-ND	4.13	3.58	213841-3
Socket	10-8	B	A25073-ND	9.49	8.23	213843-3

AMP Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
PRO-CRIMPER™ III with Die Set, 28-24, 24-20, 18-16 AWG	A9920-ND	164.70	58495-1
PRO-CRIMPER III Hand Tool without Dies	A9996-ND	45.36	354940-1
Die Set for PRO-CRIMPER III, 28-24, 24-20, 18-16 AWG	A9919-ND	216.00	58495-2
Certi-Crimp Tool, 30-20 AWG	A9951-ND	603.45	91515-1
Certi-Crimp Tool, 24-20, 24-16 AWG	A9839-ND	603.45	91523-1
Certi-Crimp Tool, 24-20, 24-16 AWG	A9841-ND	603.45	91505-1
Certi-Crimp Tool, 18-14 AWG	A31204-ND	603.45	91519-1
Series 1 and MIL-C-5015 Contacts			
Certi-Crimp Tool, 24-20 AWG	A9941-ND	603.45	91542-1
Certi-Crimp Tool, 18-16, 14 AWG	A9009-ND	603.45	91521-1
Contact Extraction Tool	A1329-ND	12.38	305183
Series 2 Contacts			
PRO-CRIMPER III with Die Set, 28-24, 24-20 AWG	A9990-ND	259.20	58448-2

Description	Digi-Key Part No.	Price Each	AMP Part No.
Die Set for PRO-CRIMPER III, 28-24, 24-20 AWG	A9814-ND	207.90	58448-3
Certi-Crimp Tool, 28-24, 24-20 AWG	A31205-ND	603.45	91503-1
Insertion/Extraction Tool for High Density D-Sub Crimp Contacts	A9979-ND	12.15	91285-1
PRO-CRIMPER III Hand Tool without Dies	A9996-ND	45.36	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
Series 3 Contacts			
Certi-Crimp Tool, 16-12 AWG	A9911-ND	945.00	90382-2
Certi-Crimp Tool, 10 AWG	A9910-ND	945.00	90384-1
Contact Extraction Tool	A9912-ND	111.71	91019-3
Coaxial			
Die Set for PRO-CRIMPER III RG-174/188/316	A30529-ND	469.80	91911-3
Certi-Crimp Tool RG-178/196	A25152-ND	4153.80	69656-2
Certi-Crimp Tool, 26 AWG Shielded	A25153-ND	8217.00	69656-3
POWERBAND™ Contacts			
Certi-Crimp Hand Tool without Die	A28006-ND	353.19	69710-1
Die Set for 69710-1, 8 AWG	A97910-ND	2231.41	356611-1
Die Set for 69710-1, 10 AWG	A97911-ND	1863.23	356611-2
Die Set for 69710-1, 12-14 AWG	A97912-ND	2389.50	356612-1

AMP Shielded and Mini DIN Connectors

Features:

• Crimp, snap-in contacts • Designed for ease of post molding • Pre-molded cord guard • Tin-plated brass contacts • Ferrule crimps onto shield for reliable termination • Meets or exceeds DIN specification 41524 for 3-position and 5-position plugs and DIN 45322 for 6-position plugs • UL recognized under the Component Program, File No. E28476 • CSA certified, File No. LR-35510

Housings: Black nylon 94V-0
Ferrule and Shield: Brass, tin-plated
Cord Guard: Thermoplastic polymer, black
Pin Contacts: Copper alloy

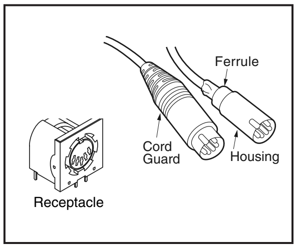

Description	Digi-Key Part No.	Pricing		AMP Part No.
		1	25	
6-Position Housing	A32317-ND†	3.10	73.32	9-212437-1
8-Position Housing	A32318-ND†	3.42	80.94	9-212437-2
Cord Guard, 4.19mm-6.35mm Cable Diameter	A1659-ND	1.96	45.49	212800-1
5-Position Receptacle, Right Angle	A32314-ND	3.22	76.13	5212044-1
5-Position Receptacle, Right Angle	A99366-ND	4.35	102.81	5750477-1
6-Position Receptacle, Right Angle	A32315-ND	3.98	94.06	5212045-1
6-Position Receptacle, Right Angle	A99368-ND	5.11	120.75	5786676-1
8-Position Receptacle, Right Angle	A32316-ND	5.33	126.00	5212047-1
4-Position Receptacle, Mini Din, Right Angle	A99369-ND	2.48	58.73	5749230-1
6-Position Receptacle, Mini Din, Right Angle	A99370-ND	2.93	69.30	5749231-1
8-Position Receptacle, Mini Din, Right Angle	A99367-ND	1.12	26.37	1658998-1
Pin Contact, 28-22 AWG	A1667-ND	9.02/10	63.02/100	66728-5
Contact Insertion Tool	A9998-ND	19.77	—	91002-1
Contact Extraction Tool	A9997-ND	657.87	—	91144-1

† Ferrules, contacts and cord guards sold separately

AMP Circular Metal Shell Connectors

Note: Shell Only Material and Finish: Receptacle: Insert: Black thermoplastic; **Outer Shell:** Aluminum alloy, zinc plated or unplated **Plug: Insert:** Black thermoplastic **Outer Shell and Coupling Ring:** Aluminum alloy, zinc plated **Retainer Ring:** Stainless steel

Note:
Contacts (pins and sockets) must be ordered separately.

Component Diameter	
Arrangement/ Shell Size	Overall Dia. Inch (mm)
14	1.225 (31.12)
22	1.750 (44.45)
28	2.170 (55.12)

Series 1 and 2

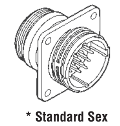
* Standard Sex
Receptacle with Pins

† Reverse Sex
(Plug/Pins)

Series 3

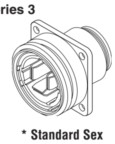
* Standard Sex
Square Flange Receptacle

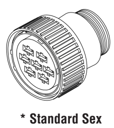
* Standard Sex
Plug

Series 4

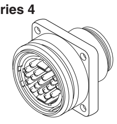
* Standard Sex
Square Flange Receptacle

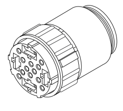
* Standard Sex
Plug

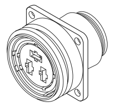
† Reverse Sex
Square Flange Receptacle

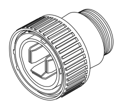
† Reverse Sex
Plug

Series 1

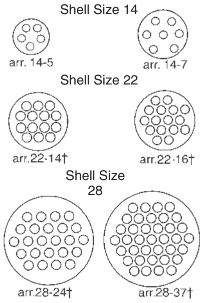

Series 2

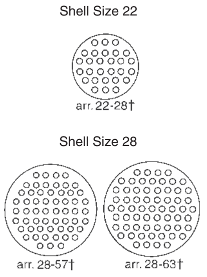

Series 3

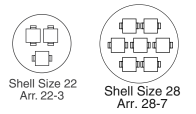

Series 4

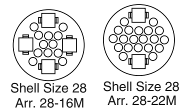

* Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
† Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Arrange-ment Number	Sex	Description (Shell Only)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Series 1						
14-5	Standard	Receptacle-Sq. Flanged	A1600-ND	25.30	23.45	208719-1
	Standard	Plug	A1601-ND	57.48	53.28	208718-1
	Reverse	Receptacle-Sq. Flanged	A1602-ND	28.86	26.76	208721-1
	Reverse	Plug	A1603-ND	42.23	39.14	208720-1
14-7	Standard	Receptacle-Sq. Flanged	A1604-ND	24.99	23.17	208715-1
	Standard	Plug	A1605-ND	39.87	36.96	208714-1
	Reverse	Receptacle-Sq. Flanged	A1606-ND	24.99	23.17	208717-1
	Reverse	Plug	A1607-ND	39.03	36.18	208716-1
22-14	Reverse	Receptacle-Sq. Flanged	A1608-ND	29.42	27.27	208487-1
	Reverse	Plug	A1609-ND	38.62	35.80	208486-1
	Reverse	Plug with Tetraseals	A25051-ND‡	49.30	45.70	208486-3
22-16	Standard	Receptacle-Sq. Flanged	A1610-ND	32.84	30.44	208489-1
	Standard	Plug	A1611-ND	37.17	34.45	208488-1
28-24	Standard	Receptacle-Sq. Flanged	A1612-ND	37.64	34.89	208459-1
	Standard	Plug	A1613-ND	47.50	44.03	208457-1
28-37	Standard	Receptacle-Sq. Flanged	A1614-ND	37.62	34.87	208471-1
	Standard	Plug	A1615-ND	47.50	44.03	208470-1
	Reverse	Receptacle-Sq. Flanged	A1616-ND	36.94	34.24	208473-1
	Reverse	Plug	A1617-ND	45.53	42.20	208472-1
Series 2						
22-28	Standard	Receptacle-Sq. Flanged	A1618-ND#	26.20	24.29	208491-1
	Standard	Plug	A1619-ND	75.89	70.34	208490-1
	Reverse	Receptacle-Sq. Flanged	A1620-ND#	22.00	20.39	208493-1
	Reverse	Plug	A1621-ND	98.38	91.19	208492-1
28-57	Reverse	Receptacle-Sq. Flanged	A1622-ND#	36.08	33.44	208475-1
	Reverse	Plug	A1623-ND	100.66	93.29	208474-1
28-63	Standard	Receptacle-Sq. Flanged	A1624-ND#	29.52	27.36	208477-1
	Standard	Plug	A1625-ND	101.43	94.02	208476-1
Series 3						
22-3	Standard	Receptacle-Sq. Flanged	A16070-ND	32.60	30.21	208495-1
	Standard	Plug	A16071-ND	44.40	41.16	208494-1
	Reverse	Plug	A25052-ND	41.33	38.31	208496-1
	Reverse	Receptacle-Sq. Flanged	A30541-ND	24.62	22.82	208497-1
28-7	Standard	Receptacle-Sq. Flanged	A16072-ND	36.94	34.24	208483-1
	Standard	Plug	A16073-ND	52.81	48.95	208482-1
	Reverse	Receptacle-Sq. Flanged	A16074-ND	34.50	31.98	208485-1
	Reverse	Plug	A16075-ND	46.37	42.98	208484-1
Series 4						
28-16	Standard	Receptacle-Sq. Flanged	A16076-ND	34.56	32.04	208479-1
	Standard	Plug	A16077-ND	51.54	47.77	208478-1
28-22	Standard	Receptacle-Sq. Flanged	A16078-ND	34.56	32.04	208481-1
	Standard	Plug	A16079-ND	47.09	43.65	208480-1

# Aluminum alloy, unplated
‡ Tetraseal provides splash-proof sealing between mating metal shells

AMP CPC Connector Accessories, Metal-Shell

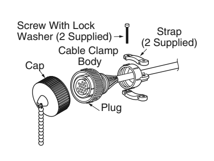

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

Material:

Zinc alloy, nickel plated

Shell Size	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Cable Clamps					
14	.225 ~ .562 (5.71 ~ 14.27)	A1626-ND	12.30	11.40	208945-5
22	.325 ~ .750 (8.26 ~ 19.05)	A1627-ND§	18.80	17.43	208945-7
28	.450 ~ .938 (11.43 ~ 23.83)	A1628-ND†	25.30	23.45	208945-8
Protective Caps					
14	—	A25047-ND	18.55	17.20	213823-2
22	—	A1633-ND	30.59	28.35	211903-1
28	—	A1634-ND	35.03	32.48	211904-1

§ Use plastic cable clamp size 17 † Use plastic cable clamp size 23

AMP Audio / Instrument Connectors (DIN Type)

Audio/Instrument connectors are economical, quick connect/disconnect attachments for audio and instrument cable having small, flexible, stranded wire conductors. These versatile connectors are ideally suited for application in citizens' band (CB) radios, test equipment, computer input terminals and industrial control equipment.

Material and Finish: • Plug/Receptacle: Thermoplastic, black • Contacts: Brass, tin over nickel plated

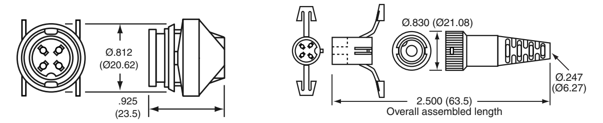

Receptacle Housing Contact Housing Cord Guard

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Plug Assemblies						
5	Contact Housing	A25075-ND	2.83	2.63	2.29	207488-1
6	Contact Housing	A25076-ND	2.82	2.61	2.29	207332-1
—	Cord Guard	A25077-ND	2.02	1.88	1.64	207314-1
Receptacle						
5	Receptacle Housing	A25079-ND	4.37	4.05	3.54	207487-1
6	Receptacle Housing	A25080-ND	3.12	2.90	2.53	207333-1
Crimp Contacts — 22-28AWG						
—	Pin, Diameter .058" (1.47mm), Loose	A25082-ND	.38	.36	.31	207438-3
	Socket, Loose	A25083-ND	.37	.35	.31	207437-3
Tool						
—	Contact Extraction Tool	A25081-ND	199.74	—	—	91136-1

M8 and M12 Series Circular Connectors

Specifications:
Electrical: • Operating Temperature: -25°C ~ 90°C • Contact Resistance: 10mΩ Maximum • Current Rating: 2A for M8 and 5A for M12 • Breakdown Voltage: 500VAC Minimum • Insulation Resistance: 100MΩ Minimum **Environmental:** • Sealing Requirements: IP67 • Durability: 500 cycles

Fig. 1

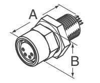

M8 Shown

Fig. 2

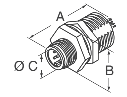

M12 Shown

Fig. 3

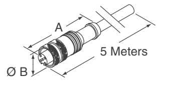

M12 Female Shown

Fig. 4

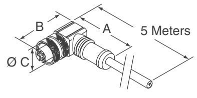

M12 Female Shown

Fig. 5

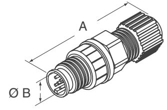

Fig. 6

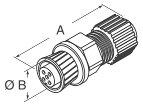

Fig.	No. of Pos.	Sex	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Metal Panel Mount Connector, Solder, Straight, Rear (Hexagonal) Mounting									
M8 Series									
1	3	Female	21.0	10.0	—	A97638-ND	8.94	8.29	1838839-1
2	3	Male	23	12.0	6.90	A97636-ND	7.02	6.15	1838838-1
1	4	Female	21.0	10.0	—	A97639-ND	9.80	9.09	1838839-2
2	4	Male	23	12.0	6.90	A97637-ND	7.32	6.41	1838838-2
M12 Series									
1	3	Female	25.3	18.0	—	A97646-ND	9.37	8.69	1838891-1
2	3	Male	24.5	18.0	10.6	A97649-ND	7.50	6.96	1838893-1
1	4	Female	25.3	18.0	—	A97647-ND	10.31	9.56	1838891-2
2	4	Male	24.5	18.0	10.6	A97650-ND	8.12	7.53	1838893-2

(Continued)

M8 and M12 Series Circular Connectors *(Cont.)*

Fig.	No. of Pos.	Sex	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	5	Female	25.3	18.0	—	A97648-ND	11.23	10.42	1838891-3
2	5	Male	24.5	18.0	10.6	A97651-ND	8.73	8.10	1838893-3
Straight Connector with Strain Relief, 5 Meter PVC Cable, M8 Series									
3	3	Male	42.0	10.5	—	A97630-ND	16.38	14.34	1838286-3
3	3	Female	38.1	10.0	—	A97628-ND	13.78	12.06	1838282-3
3	4	Male	42.7	10.5	—	A97631-ND	15.18	13.29	1838288-3
3	4	Female	38.1	10.0	—	A97629-ND	16.04	14.04	1838284-3
Straight Connector, 5 Meter PVC Cable, M12 Series									
3	3	Male	44.4	14.4	—	A97652-ND	12.38	10.84	1838236-3
3	3	Female	43.3	14.5	—	A97655-ND	13.78	12.06	1838242-3
3	4	Male	44.4	14.4	—	A97653-ND	15.18	13.29	1838238-3
3	4	Female	43.3	14.5	—	A97656-ND	16.04	14.04	1838244-3
3	5	Male	44.4	14.4	—	A97654-ND	16.60	14.53	1838240-3
3	5	Female	43.3	14.5	—	A97657-ND	18.84	16.49	1838246-3
Right Angled Connector with Strain Relief, 5 Meter PVC Cable, M8 Series									
4	3	Male	20.7	25.5	10.5	A97632-ND	12.38	10.84	1838290-3
4	3	Female	20.7	20.0	10.0	A97634-ND	13.78	12.06	1838296-3
4	4	Male	20.7	25.5	10.5	A97633-ND	15.18	13.29	1838292-3
4	4	Female	20.7	20.0	10.0	A97635-ND	16.04	14.04	1838298-3
Right Angled Connector, 5 Meter PVC Cable, M12 Series									
4	3	Male	35.0	27.9	14.4	A97658-ND	12.38	10.84	1838248-3
4	3	Female	35.0	26.9	14.5	A97661-ND	13.78	12.06	1838254-3
4	4	Male	35.0	27.9	14.4	A97659-ND	15.18	13.29	1838250-3
4	4	Female	35.0	26.9	14.5	A97662-ND	16.04	14.04	1838256-3
4	5	Male	35.0	27.9	14.4	A97660-ND	16.60	14.53	1838252-3
4	5	Female	35.0	26.9	14.5	A97663-ND	18.84	16.49	1838258-3
Right Angled LED Version Connector, 5 Meter PVC Cable, M12 Series									
4	3	Female	35.0	26.9	14.5	A97664-ND	18.28	16.00	1838264-3
4	4	Female	35.0	26.9	14.5	A97665-ND	20.54	17.98	1838266-3
Field Serviceable Connector, Solder Type, M12 Series									
5	3	Male	41.8	14.4	—	A97643-ND	7.50	6.96	1838275-1
6	3	Female	40.5	14.5	—	A97640-ND	9.23	8.55	1838274-1
5	4	Male	41.8	14.4	—	A97644-ND	8.08	7.49	1838275-2
6	4	Female	40.5	14.5	—	A97641-ND	10.09	9.35	1838274-2
5	5	Male	41.8	14.4	—	A97645-ND	8.65	8.02	1838275-3
6	5	Female	40.5	14.5	—	A97642-ND	10.66	9.88	1838274-3
Plastic Field Serviceable Connector, Solder Type, M12 Series									
5	3	Male	41.8	13.8	—	A97669-ND	6.93	6.43	1838277-1
6	3	Female	40.5	15.0	—	A97666-ND	8.65	8.02	1838276-1
5	4	Male	41.8	13.8	—	A97670-ND	7.50	6.96	1838277-2
6	4	Female	40.5	15.0	—	A97667-ND	9.51	8.82	1838276-2
5	5	Male	41.8	13.8	—	A97671-ND	8.08	7.49	1838277-3
6	5	Female	40.5	15.0	—	A97668-ND	10.09	9.35	1838276-3

AMP MIL-C-5015 Style Circular Plastic Connectors - Shell Size 20-14

UL File No. E28476

CSA File No. LR7189

Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.

Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Fig. 1

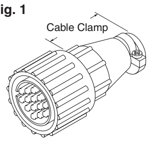

Fig. 2

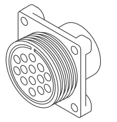

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plug Kit, Unassembled – RoHS Compliant					
1	Reverse Sex without Cable Clamp Standard Sex without Cable Clamp	A25015-ND A25016-ND	11.01 19.19	10.21 17.79	213571-2 213652-1
Cable Clamps					
1	O.D. .453" (11.51mm), for use with 213652-1 O.D. .703" (17.86mm), for use with 213571-2 O.D. .703" (17.86mm), for use with 213571-2	A1332-ND A1689-ND A33767-ND◆	4.33 4.74 4.74	4.01 4.39 4.39	206070-1 206322-1 206322-9
Receptacle, Square Flange – RoHS Compliant					
2	Reverse Sex Standard Sex	A25017-ND A25018-ND	11.03 10.78	10.23 10.00	213570-1 213651-1

◆ *RoHS Compliant*

Contacts for MIL-C-5015 Connectors

Crimp Style, Type III+

Contact Finish:

A: 30µ" gold on the electrical engagement area over 50µ" nickel

B: Tin

Pin

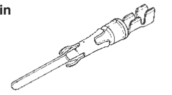

Socket

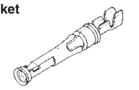

Desc.	AWG	Cont. Fin.	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Tape & Reel† 4,000	AMP Part No.
Insulation Diameter Range Inch (mm): .060-.135 (1.52-3.43)										
Socket	24-20	B	A25007-ND	7.40	51.66	66565-2	—	—	—	—
Socket	24-20	B	A33768-ND◆	7.20	50.31	66565-7	—	—	—	—
Socket	24-20	A	A25008-ND◆	11.70	81.69	66565-4	A25008CT-ND◆	107.77	538.83/M	66563-8
Insulation Diameter Range Inch (mm): .110-.150 (2.79-3.81)										
Socket	18-14	B	A25130-ND	7.54	52.65	66601-1	—	—	—	—
Socket	18-14	B	A33769-ND◆	5.47	38.18	66601-9	—	—	—	—
Pin	18-14	A	A25131-ND◆	10.05	70.23	66602-2	—	—	—	—

◆ *RoHS Compliant* † For Tape and Reel part number, change CT-ND to TR-ND.

CONEC
TECHNOLOGY IN CONNECTORS™

NEW! Field Attachable Industrial Circular M12 Connectors

RoHS COMPLIANT

Field attachable connectors from Conec offer the ease and flexibility at final installation locations for cable terminations. The practical, cost effective and flexible solutions for quick cabling are provided with simple screw terminations for up to 18AWG wires with cable O.D. of 6mm and 8mm. Axial and right angle in both Male and Female configurations are available.

Fig. 1

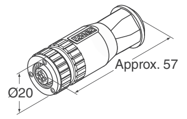

Fig. 2

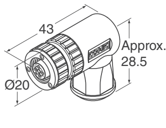

Fig. 3

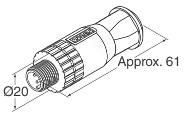

Fig. 4

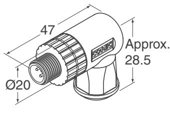

No of Pos.	Cable Diameter (mm)	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Receptacles						
4	4 ~ 6	626-1365-ND	10.58	7.83	6.35	43-00091
4	6 ~ 8	626-1373-ND	10.58	7.83	6.35	43-00092
5	4 ~ 6	626-1366-ND	11.50	8.95	7.41	43-00093
5	6 ~ 8	626-1374-ND	11.50	8.95	7.41	43-00094
Fig. 2 — Receptacles, Right Angle						
4	4 ~ 6	626-1367-ND	10.93	8.09	6.56	43-00095
4	6 ~ 8	626-1375-ND	10.93	8.09	6.56	43-00096
5	4 ~ 6	626-1368-ND	11.75	9.14	7.57	43-00097
5	6 ~ 8	626-1376-ND	11.75	9.14	7.57	43-00098
Fig. 3 — Plugs						
4	4 ~ 6	626-1369-ND	9.00	6.66	5.40	43-00099
4	6 ~ 8	626-1377-ND	9.00	6.66	5.40	43-00100
5	4 ~ 6	626-1370-ND	10.78	7.98	6.47	43-00101
5	6 ~ 8	626-1378-ND	10.78	7.98	6.47	43-00102
Fig. 4 — Plugs, Right Angle						
4	4 ~ 6	626-1371-ND	9.13	6.76	5.48	43-00103
4	6 ~ 8	626-1379-ND	9.13	6.76	5.48	43-00104
5	4 ~ 6	626-1372-ND	11.05	8.18	6.63	43-00105
5	6 ~ 8	626-1380-ND	11.05	8.18	6.63	43-00106

NEW! Field Attachable Industrial Circular 7/8" Connectors

RoHS COMPLIANT

7/8" Field attachable connectors from Conec offer increased power applications up to 12A with the ease and flexibility at final installation locations for cable terminations.
The practical, cost effective and flexible solutions for quick cabling are provided with simple screw terminations for up to 16AWG wires and 3 cable O.D. options 6mm-8mm, 8mm-10mm and 10mm-12mm.

Fig. 1

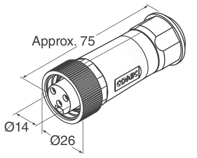

Fig. 2

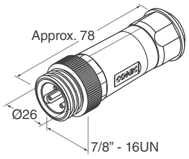

No of Pos.	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Receptacles					
3	626-1381-ND	22.70	18.16	15.89	41-00001
4	626-1382-ND	26.60	21.28	18.62	41-00002
5	626-1383-ND	29.32	23.46	20.53	41-00003
Fig. 2 — Plug					
3	626-1384-ND	21.74	16.91	14.01	41-00004
4	626-1385-ND	21.96	17.57	15.38	41-00005
5	626-1386-ND	23.72	18.98	16.61	41-00006

CUI INC Miniature DIN Connectors

Applications: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **General Specifications: • Rating:** 100VAC 1A maximum, 12VDC 2A maximum **• Insulation Resistance:** minimum 50MEGΩ @ 250VDC **• Voltage Withstand:** 250VAC, 1 minute **• Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

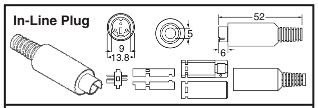

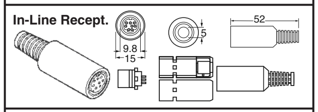

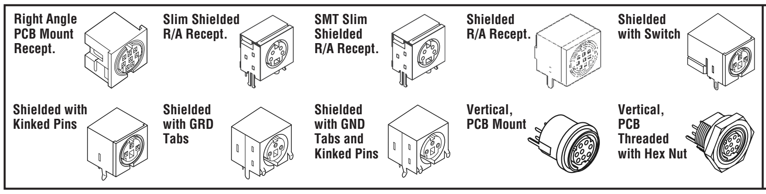
Right Angle PCB Mount Recept.
Slim Shielded R/A Recept.
SMT Slim Shielded R/A Recept.
Shielded R/A Recept.
Shielded with Switch
Shielded with Kinked Pins
Shielded with GRD Tabs
Shielded with GND Tabs and Kinked Pins
Vertical, PCB Mount
Vertical, PCB Threaded with Hex Nut

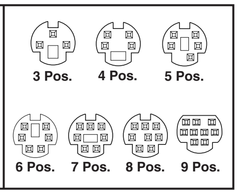

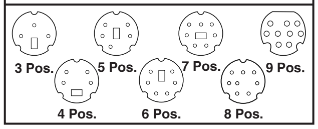

Number of Positions	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
Right Angle PCB Mount Receptacles					
3	CP-2430-ND	.78	.68	.52	MD-30S
4	CP-2440-ND◆	.81	.71	.54	MD-40S
5	CP-2450-ND◆	.86	.75	.57	MD-50S
6	CP-2460-ND◆	.90	.78	.60	MD-60S
7	CP-2470-ND◆	1.02	.89	.68	MD-70S
8	CP-2480-ND◆	1.11	.97	.74	MD-80S
9	CP-2490-ND◆	1.53	1.33	1.02	MD-90S
Slim Shielded R/A PCB Receptacles – RoHS Compliant					
4	CP-2245-ND	1.44	1.25	.96	MD2-40ST
6	CP-2267-ND	1.53	1.33	1.02	MD2-60ST
SMT Slim Shielded R/A Receptacles – RoHS Compliant					
4	CP-3145-ND	1.65	1.43	1.10	MD2-40ST-SMT
6	CP-3167-ND	1.74	1.51	1.16	MD2-60ST-SMT
Shielded Right Angle Receptacles					
3	CP-2230-ND	.99	.86	.66	MD-30SM
4	CP-2240-ND◆	1.02	.89	.68	MD-40SM
5	CP-2250-ND◆	1.05	.91	.70	MD-50SM
6	CP-2260-ND◆	1.11	.97	.74	MD-60SM
7	CP-2270-ND◆	1.23	1.07	.82	MD-70SM
8	CP-2280-ND◆	1.32	1.15	.88	MD-80SM
9	CP-2290-ND◆	1.65	1.43	1.10	MD-90SM
Shielded Receptacles with Switch					
3	CP-3030-ND	2.01	1.75	1.34	MD-30SMW
4	CP-3040-ND◆	2.10	1.82	1.40	MD-40SMW
5	CP-3050-ND	2.19	1.90	1.46	MD-50SMW
6	CP-3060-ND◆	2.31	2.01	1.54	MD-60SMW
7	CP-3070-ND	2.40	2.08	1.60	MD-70SMW
8	CP-3080-ND◆	2.46	2.14	1.64	MD-80SMW
Shielded Receptacles with Kinked Pins					
3	CP-4030-ND	.99	.86	.66	MD-30SMK
4	CP-4040-ND◆	1.02	.89	.68	MD-40SMK
5	CP-4050-ND◆	1.05	.91	.70	MD-50SMK
6	CP-4060-ND◆	1.11	.97	.74	MD-60SMK
7	CP-4070-ND◆	1.23	1.07	.82	MD-70SMK
8	CP-4080-ND◆	1.32	1.15	.88	MD-80SMK
Shielded Receptacles with Ground Tabs					
3	CP-5030-ND	2.37	2.06	1.58	MD-30SG
4	CP-5040-ND◆	2.40	2.08	1.60	MD-40SG
5	CP-5050-ND◆	2.43	2.11	1.62	MD-50SG
6	CP-5060-ND◆	2.46	2.14	1.64	MD-60SG
8	CP-5080-ND◆	2.61	2.27	1.74	MD-80SG
Shielded Receptacles with Ground Tabs and Kinked Pins					
3	CP-6030-ND	2.37	2.06	1.58	MD-30SGK
4	CP-6040-ND◆	2.40	2.08	1.60	MD-40SGK
5	CP-6050-ND	2.43	2.11	1.62	MD-50SGK
6	CP-6060-ND◆	2.46	2.14	1.64	MD-60SGK
8	CP-6080-ND◆	2.61	2.27	1.74	MD-80SGK
Vertical PCB Mount Receptacles – RoHS Compliant					
3	CP-2730-ND	1.02	.89	.68	MD-30SV
4	CP-2740-ND	1.08	.94	.72	MD-40SV
5	CP-2750-ND	1.14	.99	.76	MD-50SV
6	CP-2760-ND	1.17	1.02	.78	MD-60SV
8	CP-2780-ND	1.29	1.12	.86	MD-80SV
Vertical PCB Mount Threaded Receptacles with Hex Nut – RoHS Compliant					
3	CP-2830-ND	1.41	1.23	.94	MD-30CV
4	CP-2840-ND	1.47	1.28	.98	MD-40CV
5	CP-2850-ND	1.50	1.30	1.00	MD-50CV
6	CP-2860-ND	1.56	1.36	1.04	MD-60CV
8	CP-2880-ND	1.65	1.43	1.10	MD-80CV
Replacement Hardware - Nut	CP-2418-ND ***NEW!***	.18	.16	.12	MD-XXCV-NUT
In-Line Plugs Solder					
3	CP-2030-ND	1.29	1.12	.86	MD-30
4	CP-2040-ND◆	1.32	1.15	.88	MD-40
5	CP-2050-ND◆	1.38	1.20	.92	MD-50
6	CP-2060-ND◆	1.20	1.04	.80	MD-60
7	CP-2070-ND◆	1.50	1.30	1.00	MD-70
8	CP-2080-ND◆	1.56	1.36	1.04	MD-80
9	CP-2090-ND◆	1.98	1.72	1.32	MD-90
Crimp Pin	CP-9999-ND	—	.09	.05	T-0006
In-Line Receptacles Solder					
3	CP-2130-ND◆	1.23	1.07	.82	MD-30J
4	CP-2140-ND	1.29	1.12	.86	MD-40J
5	CP-2150-ND◆	1.56	1.36	1.04	MD-50J
6	CP-2160-ND◆	1.62	1.41	1.08	MD-60J
7	CP-2170-ND	1.47	1.28	.98	MD-70J
8	CP-2180-ND◆	1.53	1.33	1.02	MD-80J
9	CP-2190-ND◆	1.98	1.72	1.32	MD-90J

◆ RoHS Compliant

Mini-DIN Panel Mount Connectors

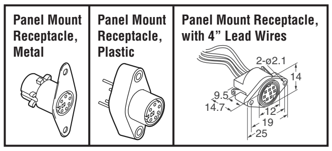
Panel Mount Receptacle, Metal
Panel Mount Receptacle, Plastic
Panel Mount Receptacle, with 4" Lead Wires
2-ø2.1
14
9.5
14.7
12
19
25

No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
Panel Mount Mini-DIN Connectors – Metal					
3	CP-2530-ND	1.44	1.25	.96	MD-30SN
4	CP-2540-ND◆	1.29	1.12	.86	MD-40SN
5	CP-2550-ND◆	1.35	1.17	.90	MD-50SN
6	CP-2560-ND◆	1.62	1.41	1.08	MD-60SN
7	CP-2570-ND	1.47	1.28	.98	MD-70SN
8	CP-2580-ND◆	1.74	1.51	1.16	MD-80SN
9	CP-2590-ND◆	1.62	1.41	1.08	MD-90SN
Panel Mount Mini-DIN Connectors – Plastic – RoHS Compliant					
3	CP-2630-ND	1.32	1.15	.88	MD-30SP
4	CP-2640-ND	1.59	1.41	1.06	MD-40SP
5	CP-2650-ND	1.44	1.25	.96	MD-50SP
6	CP-2660-ND	1.71	1.49	1.14	MD-60SP
7	CP-2670-ND	1.56	1.39	1.04	MD-70SP
8	CP-2680-ND	1.62	1.41	1.08	MD-80SP
Panel Mount Mini-DIN Connectors with 4" Lead Wires (26AWG) – RoHS Compliant					
3	CP-2930-ND	1.65	1.43	1.10	MD-30PL100
4	CP-2940-ND	1.74	1.51	1.16	MD-40PL100
5	CP-2950-ND	1.89	1.64	1.26	MD-50PL100
6	CP-2960-ND	1.98	1.72	1.32	MD-60PL100
8	CP-2980-ND	2.19	1.90	1.46	MD-80PL100

◆ RoHS Compliant

Circular DIN Connectors

Applications: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.
General Specifications: • Ratings: 100VAC 2A maximum **• Insulation Resistance:** minimum 100MEGΩ @ 500VDC **• Voltage Withstand:** 1000VAC, 1 minute **• Contact Resistance:** Pins - 10mΩ @ maximum, Shell - 50mΩ maximum (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
Panel Mount Receptacles – RoHS Compliant					
3	CP-1230-ND	1.20	1.04	.80	SD-30SN
4	CP-1240-ND	1.26	1.10	.84	SD-40SN
5	CP-1250-ND	1.29	1.12	.86	SD-50SN
6	CP-1260-ND	1.35	1.17	.90	SD-60SN
7	CP-1270-ND	1.38	1.20	.92	SD-70SN
8	CP-1280-ND	1.44	1.25	.96	SD-80SN
Panel Mount Locking Receptacles					
3	CP-1233-ND◆	2.48	2.15	1.66	SD-30LS
4	CP-1234-ND◆	2.62	2.28	1.75	SD-40LS
5	CP-1235-ND◆	2.76	2.40	1.85	SD-50LS
6	CP-1236-ND◆	2.91	2.52	1.94	SD-60LS
7	CP-1237-ND	3.05	2.65	2.04	SD-70LS
8	CP-1238-ND◆	3.20	2.78	2.14	SD-80LS
Vertical PCB Mount Receptacles					
3	CP-3130-ND	.88	.77	.59	SD-30BV
5	CP-3150-ND◆	.93	.81	.62	SD-50BV
6	CP-3160-ND◆	.96	.83	.64	SD-60BV
7	CP-3170-ND	.99	.86	.66	SD-70BV
8	CP-3180-ND◆	1.04	.90	.69	SD-80BV
Right Angle Receptacles – RoHS Compliant					
3	CP-2330-ND	.69	.60	.46	SDS-30J
4	CP-2340-ND	.72	.63	.48	SDS-40J
5	CP-2350-ND	.72	.63	.48	SDS-50J
6	CP-2360-ND	1.08	.94	.72	SDS-60J
7	CP-2370-ND	1.20	1.04	.80	SDS-70J
8	CP-2380-ND	1.32	1.15	.88	SDS-80J
13	CP-2313-ND	2.85	2.47	1.90	SDD-130J
Right Angle Front Shielded Receptacles					
3	CP-7030-ND◆	.75	.65	.50	SDF-30J
4	CP-7040-ND◆	.90	.78	.60	SDF-40J
5	CP-7050-ND◆	.90	.78	.60	SDF-50J
6	CP-7060-ND◆	1.23	1.07	.82	SDF-60J
7	CP-7070-ND	1.32	1.15	.88	SDF-70J
8	CP-7080-ND◆	1.50	1.30	1.00	SDF-80J
13	CP-3313-ND◆	2.97	2.58	1.98	SDF-130J
Right Angle Surface Mount Receptacles					
4	CP-1000-ND	1.26	1.10	.84	SDS-40J-SMT
8	CP-1001-ND	1.53	1.33	1.02	SDS-80J-SMT
In-Line Plugs – RoHS Compliant					
3	CP-1030-ND	1.14	.99	.76	SD-30
4	CP-1040-ND	1.17	1.02	.78	SD-40
5	CP-1050-ND	1.23	1.07	.82	SD-50
6	CP-1060-ND	1.26	1.10	.84	SD-60
7	CP-1070-ND	1.32	1.15	.88	SD-70
8	CP-1080-ND	1.35	1.17	.90	SD-80
13	CP-1013-ND	1.98	1.72	1.32	SD-130
In-Line Locking Plugs					
3	CP-1033-ND◆	3.41	2.96	2.28	SD-30LP
4	CP-1034-ND◆	3.55	3.08	2.37	SD-40LP
5	CP-1035-ND	3.73	3.24	2.49	SD-50LP
6	CP-1036-ND◆	3.88	3.36	2.59	SD-60LP
7	CP-1037-ND	4.02	3.49	2.68	SD-70LP
8	CP-1038-ND	4.16	3.61	2.78	SD-80LP
In-Line Right Angle Plugs					
3	CP-1330-ND◆	2.28	1.98	1.52	SDR-30
5	CP-1350-ND◆	2.49	2.16	1.66	SDR-50
6	CP-1360-ND◆	2.55	2.21	1.70	SDR-60
7	CP-1370-ND	2.73	2.37	1.82	SDR-70
8	CP-1380-ND◆	2.82	2.45	1.88	SDR-80
In-Line Receptacles – RoHS Compliant					
3	CP-1130-ND	1.14	.99	.76	SD-30J
4	CP-1140-ND	1.29	1.12	.86	SD-40J
5	CP-1150-ND	1.32	1.15	.88	SD-50J
6	CP-1160-ND	1.35	1.17	.90	SD-60J
7	CP-1170-ND	1.38	1.20	.92	SD-70J
8	CP-1180-ND	1.41	1.23	.94	SD-80J
13	CP-1113-ND	3.45	2.99	2.30	SD-130J

◆ RoHS Compliant

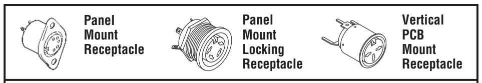

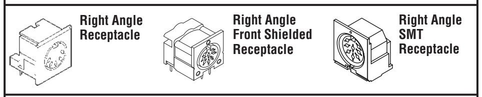
Right Angle Receptacle
Right Angle Front Shielded Receptacle
Right Angle SMT Receptacle

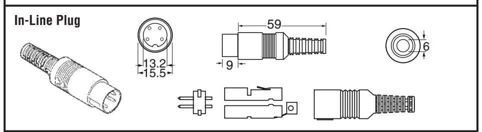

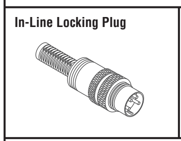

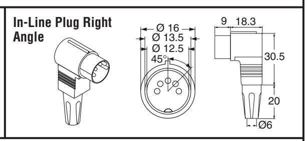

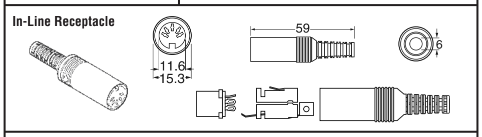

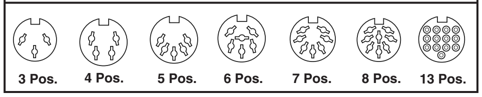

SINGATRON Mini DIN Connectors

Applications: Because of their compact size and durable design, Mini DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **General Specifications: • Rating:** 100VAC @ 1A maximum, 12VDC @ 2A maximum **• Insulation Resistance:** minimum 50MΩ @ 250VDC **• Voltage Withstand:** 250VAC, 1 minute **• Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

Dim. in mm

Right Angle Receptacle

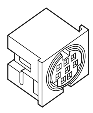

Shielded Right Angle Receptacle

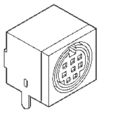

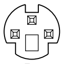

3 Pos.

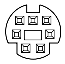

7 Pos.

In-Line Jack

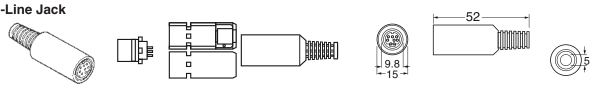

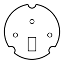

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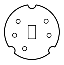

5 Pos.

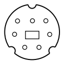

7 Pos.

Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Right Angle PCB Mount Receptacles					
3-Position Right Angle Receptacle	275-1040-ND	.65	5.46	39.00	2MJ-0001A110
7-Position Right Angle Receptacle	275-1044-ND	.85	7.14	51.00	2MJ-0005A110
Shielded Right Angle Receptacles					
3-Position Right Angle Receptacle	275-1046-ND	.83	6.93	49.50	2MJ-0101A120
7-Position Right Angle Receptacle	275-1050-ND◆	1.03	8.61	61.50	2MJ-0105A120
In-Line Jack					
3-Position In-Line Jack	275-1034-ND	1.01	8.51	60.75	63000-3P
5-Position In-Line Jack	275-1036-ND	1.13	9.45	67.50	63000-5P
7-Position In-Line Jack	275-1038-ND	1.24	10.40	74.25	63000-7P

◆ ***RoHS Compliant***

Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Panel Mount Mini DIN Connectors With 6" (15.24cm) Lead Wire (26AWG) — RoHS Compliant					
5-Position Recepacle	275-1102-ND	1.73	14.49	103.50	2MJ-20316000

Panel Mount Receptacle, Plastic

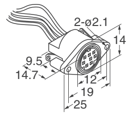

Circular DIN Connectors

Applications: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value. **General Specifications: • Ratings:** 100VAC @ 1A maximum, 24VDC @ 2A maximum **• Insulation Resistance:** minimum 100MΩ @ 500VDC **• Voltage Withstand:** 1,000VAC, 1 minute **• Contact Resistance:** Pins: 10mΩ maximum, Shell: 50mΩ maximum (All accessories included)

Dim. in mm

Right Angle Front Shielded Receptacle

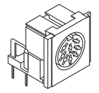

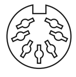

7 Pos.

In-Line Jack

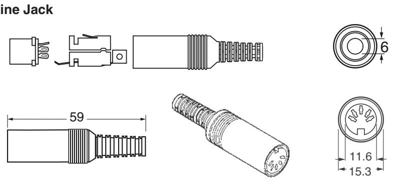

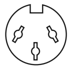

3 Pos.

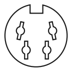

4 Pos.

Description	Digi-Key Part No.	Pricing 1	10	100	Singatron Part No.
Right Angle Front Shielded Receptacles					
7-Position Right Angle Front Shielded	275-1026-ND	1.23	10.29	73.50	2DJ-0077PSA2
In-Line Jack					
3-Position In-Line Jack	275-1006-ND	.61	5.15	36.75	YE-1333
4-Position In-Line Jack	275-1007-ND	.68	5.67	40.50	YE-1334

molex

XRC™ Sealed Plugs and Receptacles

The XRC 14-circuit, connector was developed to meet the demanding requirements of the heavy equipment industry. With a standard 18 size shell, this rugged, circular connector is ideal for heavy-duty applications such as trucks, buses and agricultural markets. Designed to meet IP67 standards, XRC plugs and receptacles protect against the ingress of dust, water and other contaminants to maintain the integrity of the mated pair. Plugs feature a quick-diconnect bayonet latch to provide quick and easy connections with reduced installation and service time while ensuring accurate mating depth.

Operating Temperature Range: -55°C ~ 125°C

Materials: • Housings: Polyester, Glass Filled, UL94V-0 and Polyetherimide, Color: Black • Seals: Silicone rubber, Color: Rust Red

Dim. in mm

Fig. 1

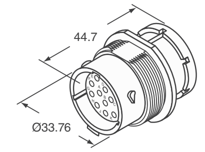

Fig. 2

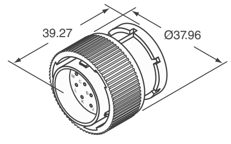

Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Fig. 1 — Receptacles					
With Sockets ~ 14 Position	WM1060-ND	17.42	147.72	1174.20	84508-0001
With Pins ~ 14 Position	WM1061-ND	17.42	147.72	1174.20	84502-0008
Fig. 2 — Plugs					
With Pins ~ 14 Position	WM1062-ND	19.08	161.78	1285.93	84501-0001
With Sockets ~ 14 Position	WM1063-ND	19.08	161.78	1285.93	84507-0012
Terminals and Accessories					
Female Socket 14 ~ 18AWG	WM1064CT-ND†	.86	8.11	64.86	84590-0024
Female Socket 14 ~ 18AWG	WM1064TR-ND‡	1071.00/3,000			84590-0024
Male Pin 14 ~ 18AWG	WM1065CT-ND†	.86	8.11	64.86	84590-0021
Male Pin 14 ~ 18AWG	WM1065TR-ND‡	1071.00/3,000			84590-0021
Crimp Hand Tool for 10 ~ 14AWG	WM4213-ND	287.28	—	—	63811-1100
Sealing Plug for XRC Connector	WM1066-ND	.59	5.22	34.78	84509-0002
Panel Mount Hex Nut for XRC Connector	WM1067-ND	4.63	40.81	272.08	84502-0004

† Cut Tape ‡ Tape and Reel

CUI INC

NEW! Power DIN Connectors

RECEPTACLES: Specifications: • Rating: 20VDC @ 7.5A **• Contact Resistance:** 30mΩ maximum **• Insulation Resistance:** 50MΩ minimum: 250VDC **• Voltage Withstand:** 250VAC R.M.S. for 1 minute **• Insertion Force:** 6.0KG maximum **• Withdrawal Force:** 0.5KG ~ 6.0KG **• Life:** 1,000 cycles

PLUGS: Specifications: • Rating: Pins: 1 and 2: 20VDC @ 7.5A, Pin 3: 20VDC @ 1A **• Insulation Resistance:** 50MΩ minimum: 250VDC **• Voltage Withstand:** 250VAC R.M.S. for 1 minute **• Life:** 5,000 cycles

Fig. 1 – Receptacle Without Shielding

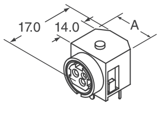

Fig. 2 – Receptacle With Shielding

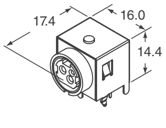

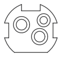

3 Pos.

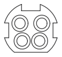

4 Pos.

Fig. 3 – Straight Plug

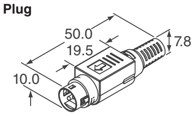

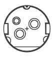

3 Pos.

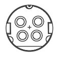

4 Pos.

Description	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	CUI Inc. Part No.
Fig. 1 – Receptacles Without Shielding, PCB Mount						
3-Position, Right Angle, Female, PCB Mount	14.9	CP-7130-ND	1.19	10.30	79.20	PD-30
4-Position, Right Angle, Female, PCB Mount	15.0	CP-7140-ND	1.30	11.23	86.40	PD-40
Fig. 2 – Receptacles With Shielding						
3-Position, Right Angle, Female, PCB Mount	—	CP-7230-ND	1.40	12.17	93.60	PD-30S
4-Position, Right Angle, Female, PCB Mount	—	CP-7240-ND	1.51	13.10	100.80	PD-40S
Fig. 3 – Straight Plugs						
3-Position, Straight Plug	—	CP-7330-ND	2.91	25.22	194.00	PDP-30
4-Position, Straight Plug	—	CP-7340-ND	3.12	27.04	208.00	PDP-40

BNC Connectors

BNC three piece crimp connectors feature semi-captive contacts that "click" into place assuring perfect installation. Each crimp pin has a vent hole for optional soldering. Soldering is recommended for all stranded conductors 26AWG or smaller.

Fig. 1

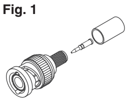

Fig. 2

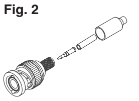

Fig.	RG/U Cable	Contact Finish	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
	Standard 3 Piece Crimp						
1	58A/U, 58C/U, Stranded 141, Thin PVC	Brass	991-1000-ND	4.03	3.34	2.51	310A205F
	223	Brass	991-1002-ND	3.97	3.29	2.47	310A205P
2	174, 178, 196, Mini RGB 50Ω	Brass	991-1001-ND	4.21	3.48	2.61	310A205MV
	174, 178, 196, Mini RGB 75Ω	Brass	991-1003-ND	5.13	4.25	3.19	310B205MV

Serial Digital BNC Connectors

Bomar's true 75Ω BNC connectors fit all standard broadcast cables and utilize standard existing tooling. Made from precision machined brass, these rugged connectors maintain excellent return loss in analog and serial digital applications.

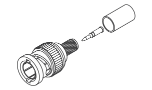

RG/U Cable	Contact Finish	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
1505A	Brass	991-1004-ND	3.57	2.96	2.22	SBC1505A
1694A	Brass	991-1005-ND	3.60	2.98	2.24	SBC1694A
1855A	Brass	991-1006-ND	3.57	2.96	2.22	SBC1855A
7731A	Brass	991-1008-ND	4.09	3.39	2.54	SBC7731A
8218	Brass	991-1007-ND	3.31	2.74	2.06	SBC8281
8241(A)	Brass	991-1010-ND	3.57	2.96	2.22	SBC8241
8281(B), (F)	Brass	991-1009-ND	3.57	2.96	2.22	SBC8218

Shadow™ High Definition BNC Connectors

The Shadow is the name for the best high definition BNC connector available at any price. Shadow BNC connectors fit all standard broadcast cables and utilize most standard existing tooling. These connectors are made from precision machined brass and insulator material is high density TFE to maintain a perfect dielectric constant.

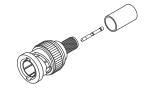

RG/U Cable	Contact Finish	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
1505A	Gold	991-1011-ND	3.45	2.86	2.15	HBC1505A
1694A	Gold	991-1012-ND	3.45	2.86	2.15	HBC1694A
1855A	Gold	991-1013-ND	3.60	2.98	2.24	HBC1855A
179DT	Gold	991-1014-ND	4.12	3.41	2.56	HBC179DT

E-Snap™ Connectors

The E-Snap is Bomar's newest connector and among the most reliable and innovative in the industry. E-Snap has the ability to lock firmly in place for re-flow soldering and eliminates the time and cost of applying an adhesive; this makes it the connector of choice in wireless systems.

Fig. 1

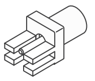

Fig. 2

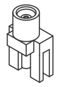

Fig. 3

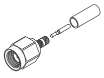

Fig. 4

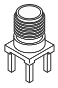

Fig. 5

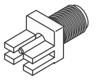

MCX Connectors

Fig.	Description	Contact Finish	Impedance (Ω)	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
1	Standard Edge Mount Jack	Brass	50	991-1048-ND	6.70	5.55	4.16	1261E504
2	Low-Profile Edge Mount Jack	Brass	50	991-1049-ND	6.94	5.88	4.54	1261E504L

SMA Connectors

Fig.	RG/U Cable	Contact Finish	Impedance (Ω)	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
			Standard 3 Piece Crimp					
3	174, 188, 316	Brass	50	991-1045-ND	3.97	3.29	2.47	910A204M
			Standard PCB					
4	—	Brass	50	991-1046-ND	4.38	3.63	2.72	961A514
			E-Snap Edge Mount					
5	—	Brass	50	991-1047-ND	6.06	5.02	3.77	961E504

V-Bite® PC Edge Mount

The V-Bite is an award winning design in the connector industry and has grown to be a reliable choice where the best connections are needed. It edge mounts to the board to utilize very little PCB space and locks into place both above and below the PCB to disperse rotational torque relief to the board and not the solder points.

The X-2 Dual BNC jacks were designed to satisfy engineers' requirements for maximizing PCB space and installation efficiency. These new dual jacks accommodate two connectors in the space of one and have an available back plate for full shielding

Fig. 1

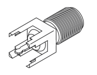

Fig. 2

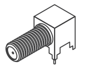

Fig. 3

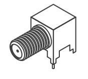

Fig. 4

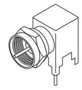

Fig. 5

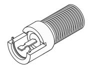

Fig. 6

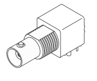

Fig. 7

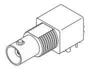

Fig. 8

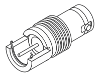

Fig. 9

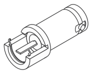

Fig. 10

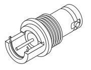

Fig. 11

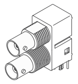

Fig. 12

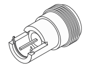

Fig. 13

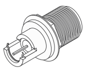

Fig.	Body Material	Contact Finish	Impedance (Ω)	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
				F-Type Connectors				
				Standard Vertical PCB				
1	—	Brass	NCI†	991-1050-ND	2.28	1.89	1.40	861A509
				Standard Right Angle PCB				
2	—	Brass	NCI†	991-1051-ND	2.90	2.40	1.80	864B509
3	—	Brass	NCI†	991-1052-ND	2.73	2.27	1.68	864B509S
4	—	Brass	NCI†	991-1053-ND	3.92	3.24	2.43	866B509
				V-Bite End Launch PCB				
5	—	Phos/Gold	NCI†	991-1042-ND	4.06	3.36	2.52	861V509E
	—	Brass/Gold	NCI†	991-1043-ND	5.31	4.40	3.30	861V509ER
	—	Brass/Gold	75	991-1044-ND	6.15	5.09	3.82	861V509ER6
				BNC PCB Jacks				
				Standard Profile Single Jack with Posts				
6	White Valox	Gold	50	991-1017-ND	2.93	2.43	1.82	364A595
	White Valox	Gold	75	991-1018-ND	2.93	2.43	1.82	364A795
	Nickel/Zinc	Gold	50	991-1021-ND	4.09	3.39	2.54	364M595
				Low-Profile Single Jack with Posts				
7	White Valox	Gold	50	991-1019-ND	2.93	2.43	1.82	364A595BL
	White Valox	Gold	75	991-1020-ND	3.16	2.62	1.97	364A795BL
	Nickel/Zinc	Gold	50	991-1022-ND	4.29	3.56	2.67	364M595L
				V-Bite End Launch PCB				
8	—	Phos/Gold	50	991-1037-ND	5.51	4.56	3.42	361V504ET
9	—	Phos/Gold	50	991-1036-ND	5.10	4.23	3.17	361V504ER
	—	Phos/Tin	50	991-1034-ND	4.64	3.84	2.88	361V509E
	—	Phos/Gold	75	991-1038-ND	5.45	4.52	3.39	361V704ER
10	—	Phos/Gold	50	991-1035-ND	6.06	5.02	3.77	361V504EFT
	—	Phos/Gold	75	991-1039-ND	6.79	5.62	4.22	361V704EFT
	—	Phos/Gold	75	991-1040-ND	8.07	7.38	5.62	361VH704EFT
				X-2 Dual Jack				
11	White Valox	Phos/Gold	50	991-1023-ND	8.79	7.44	5.75	364A2595
	White Valox	Phos/Gold	75	991-1024-ND	8.79	8.03	6.12	364A2795
	Nickel/Zinc	Phos/Gold	50	991-1025-ND	10.49	9.58	7.30	364M2595
	Nickel/Zinc	Phos/Gold	75	991-1026-ND	10.80	9.99	8.37	364M2795
				N-Type Connectors				
				V-Bite End Launch PCB				
12	—	Brass/Gold	50	991-1031-ND	11.06	10.11	7.70	161V504E
13	—	Brass/Gold	50	991-1032-ND	14.52	13.44	11.26	161V504EFT
	—	Brass/Gold	50	991-1033-ND	10.24	9.35	7.12	161VS504EFT

† Non-Constant Impedance

Hardware/Tools

Description	Finish	Digi-Key Part No.	Price Each 1	10	100	Bomar Part No.
		364 Series				
Jam Nut	Zinc/Brass	991-1027-ND	1.22	.95	.72	364NT
Lock Washer	Zinc/Steel	991-1028-ND	.70	.49	.33	364LW
Knurled Nut	Brass/Nickel	991-1029-ND	1.37	1.07	.81	364KNT
Hex Wrench	Steel/Nickel	991-1030-ND	116.66	112.50	104.17	BD36400
		361 Series				
Knurled Nut	Brass/Nickel	991-1041-ND	1.10	.86	.66	361KNT

(Continued)

Between Series Adapters

Between Series Adapters solve a variety of connection problems where connectors of different types ordinarily could not be mated together. Each adapter has a different type of coupling at each end allowing for a wide variety of interconnections to fit almost all interconnection situations. All adapters are constructed of machined brass and are nickel plated.

Description	Digi-Key Part No.	Price Each			Bomar Part No.
		1	10	100	
N-Type to BNC					
N Male - BNC Male	991-1054-ND	20.28	19.61	17.58	1303505
N Male - BNC Female	991-1055-ND	10.04	9.29	7.79	1313505
N Female - BNC Female	991-1056-ND	10.24	9.35	7.12	1323505
N-Type to UHF					
N Male - UHF Male	991-1057-ND	14.42	13.34	11.18	1307505
N Male - UHF Female	991-1058-ND	12.77	12.02	10.52	1317505
N Female - UHF Female	991-1059-ND	13.46	12.46	10.44	1327505
N Female - UHF Male	991-1060-ND	13.16	12.39	10.84	7311505
N-Type to F-Type					
N Male - F Male	991-1061-ND	9.00	7.62	5.89	1308505
N Male - F Female	991-1062-ND	12.80	12.05	10.55	1318505
N Female - F Female	991-1063-ND	47.60	45.90	42.50	1328505
N-Type to SMA					
N Male - SMA Male	991-1064-ND	21.38	20.67	18.53	1309505
N Male - SMA Female	991-1065-ND	12.38	11.46	9.60	1319505
N Female - SMA Female	991-1066-ND	26.63	25.74	23.08	1329505
N Female - SMA Male	991-1067-ND	18.72	18.10	16.23	9311505
N-Type to TNC					
N Female - TNC Female	991-1068-ND	15.44	14.53	12.72	1325505
N Female - TNC Male	991-1069-ND	9.05	7.66	5.92	5311505
N-Type to 7/16					
N Male - 7/16 Female (Tri-Plate)	991-1101-ND	25.17	24.34	21.82	131150011
N Male - 7/16 Male (Tri-Plate)	991-1100-ND	25.82	24.96	22.38	153115011
N Female - 7/16 Male (Tri-Plate)	991-1102-ND	23.67	22.89	20.52	153155011
N Female - 7/16 Female (Tri-Plate)	991-1099-ND	23.09	22.32	20.01	153215011
BNC to TNC					
BNC Male - TNC Female	991-1070-ND	7.13	5.91	4.43	3315505
BNC Female - TNC Female	991-1071-ND	14.60	13.51	11.32	3325505
BNC Female - TNC Male	991-1072-ND	6.84	5.79	4.48	5313505
BNC to Mini-UHF					
BNC Male - Mini-UHF Female	991-1073-ND	9.43	8.61	6.56	3316505
BNC Female - Mini-UHF Male	991-1074-ND	9.94	9.08	6.92	6313505
BNC to UHF					
BNC Male - UHF Male	991-1075-ND	14.90	13.79	11.55	3307505
BNC Male - UHF Female	991-1076-ND	9.20	8.40	6.40	3317505
BNC Female - UHF Female	991-1077-ND	14.62	13.53	11.34	3327505
BNC Female - UHF Male	991-1078-ND	10.44	9.54	7.27	7313505
BNC to F-Type					
BNC Male - F Female	991-1079-ND	6.70	5.55	4.16	3318505
BNC Female - F Female	991-1080-ND	6.86	5.81	4.49	3328505
BNC Female - F Male	991-1081-ND	5.92	4.90	3.68	8313505
BNC to SMA					
BNC Male - SMA Male	991-1082-ND	18.18	17.58	15.76	3309505
BNC Male - SMA Female	991-1083-ND	9.18	8.38	6.39	3319505
BNC Female - SMA Male	991-1084-ND	10.58	9.79	8.20	9313505
UHF to SMA					
UHF Male - SMA Male	991-1096-ND	8.42	7.13	5.51	7309505
UHF Female - SMA Male	991-1097-ND	21.84	21.12	18.93	7319505
UHF Male - SMA Female	991-1098-ND	24.00	23.20	20.80	9317505
TNC to Mini-UHF					
TNC Male - Mini-UHF Female	991-1085-ND	9.55	8.72	6.64	5316505
TNC to UHF					
TNC Male - UHF Female	991-1086-ND	14.28	13.21	11.07	5317505
TNC to SMA					
TNC Male - SMA Male	991-1087-ND	12.48	11.55	9.68	5309505
TNC Male - SMA Female	991-1088-ND	20.45	19.77	17.72	5319505
TNC Female - SMA Female	991-1089-ND	20.12	19.45	17.44	5329505
TNC Female - SMA Male	991-1090-ND	18.95	18.32	16.42	9315505
Mini-UHF to N-Type					
Mini-UHF Male - N Female	991-1091-ND	13.62	12.60	10.56	6311505
Mini-UHF to UHF					
Mini-UHF Male - UHF Female	991-1092-ND	10.00	9.25	7.75	6317505
Mini-UHF Female - UHF Male	991-1093-ND	12.80	11.84	9.92	7316505
SMA to Mini-UHF					
SMA Male - Mini-UHF Male	991-1094-ND	8.42	7.13	5.51	9306505
SMA Male - Mini-UHF Female	991-1095-ND	22.59	21.84	19.58	9316505
RCA to BNC					
RCA Male - BNC Male	991-1107-ND	6.41	5.31	3.98	R0842
RCA Female - BNC Male	991-1108-ND	3.77	3.12	2.34	R0843
RCA Male - BNC Female	991-1109-ND	5.77	4.78	3.59	R0844
RCA to F-Type					
RCA Male - F Male	991-1110-ND	6.89	5.83	4.51	R0847
RCA Male - F Female	991-1111-ND	3.48	2.88	2.16	R0849
RCA Female - F Male	991-1112-ND	3.77	3.12	2.34	R0851
RCA to UHF					
RCA Male - UHF Female	991-1113-ND	8.53	7.22	5.58	R0822

Adapters and Terminators

Standard configurations of adapters are machined brass with attractive nickel plating. All contacts are gold plated brass (males) and phosphor bronze (females).

Fig. 1

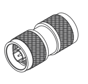

Fig. 2

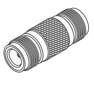

Fig. 3

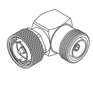

Fig. 4

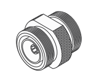

Fig. 5

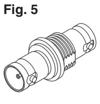

Fig. 6

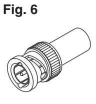

Fig.	Description	Digi-Key Part No.	Price Each			Bomar Part No.
			1	10	100	
1	N Male / N Male Inline (Tri-Plate)	991-1106-ND	13.62	12.60	10.56	130A5011
2	N Female / N Female (Tri-Plate)	991-1105-ND	11.62	10.75	9.01	132A5011
3	7/16 Male - 7/16 Female R/A (Tri-Plate)	991-1104-ND	42.64	41.13	38.08	1532A5011
4	7/16 Female - 7/16 Female (Tri-Plate)	991-1103-ND	26.79	25.90	23.22	1513A5011
5	BNC F/F HD Isolated 75Ω Panel Feed Thru	991-1015-ND	11.48	10.48	7.99	HBC335R744
6	BNC Precision 75Ω Terminator .1%	991-1016-ND	6.97	5.90	4.56	HBC310X075

Adapter Kits

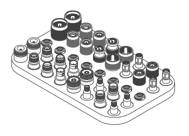

Kits are in zippered leather cases and contain enough parts for hundreds of combinations of adapters.

Commercial Grade ADPT1 is a 30-piece kit containing 2 each males and females of: BNC, TNC, N, Mini-UHF, UHF, SMA and 6 universal adapters. Made of machined brass and nickel plated bodies. Gold contacts.

Broadcast Grade ADPT2 is a 40-piece kit containing 2 each males and females of: BNC, TNC, N, Mini-UHF, UHF, SMA, F, RCA and 8 universal adapters. Made of machined brass and gold plated bodies. Gold contacts.

7/16 ADPT3PA is an 8-piece kit containing: 7/16 to N, N to N and 7/16 to 7/16 adapters. Made of machined brass and Tri-Plated bodies. Gold plated contacts.

Antenna Kit ADPT4 RP is a 42-piece kit containing: N, BNC, UHF, TNC, TNC-RT (Reverse Thread), TNC-RP (Reverse Polarity), SMA, SMA-RP (Reverse Polarity) and 8 universal adapters. Made of machined brass and gold plated bodies. Gold contacts.

Note: All kits are now supplied with (2) ADPTW

Description	Digi-Key Part No.	Price Each			Bomar Part No.
		1	10	100	
Commercial Grade Universal Kit	991-1114-ND	134.13	128.59	121.02	ADPT1
Broadcast Grade Universal Kit	991-1115-ND	215.87	206.95	194.78	ADPT2
7/16 Adapter Kit	991-1116-ND	268.49	257.39	242.25	ADPT3PA
Antenna Universal Kit	991-1117-ND	255.36	244.80	230.40	ADPT4RP

EZ-RJ45™ Modular Plugs

EZ-RJ45 Category 5 and 6 plugs are simple and fool-proof to install. All you do is separate the pairs to a length you want to work with, place in correct order and insert through the connector. The conductors pass out the end so you can inspect for accuracy and the Bomar (BD45000) tool crimps and cuts in one clean operation.

Fig. 1

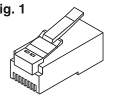

Fig. 2

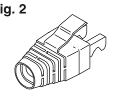

Fig.	Description	Digi-Key Part No.	Price Each			Bomar Part No.
			1	10	100	
	Plugs					
1	8P8C EZ-RJ45 Category 5 Plug	991-1118-ND	2.02	1.68	1.24	300568EZ
	8P8C EZ-RJ45 Category 6 Plug	991-1119-ND	2.18	1.81	1.34	300668EZ
	8P8C EZ-RJ45 Shielded Category 6 Plug	991-1120-ND	4.15	3.44	2.58	300668SEZ
	Accessories					
2	Cable Boot SNAGLESS Category 5 (Color: Clear)	991-1122-ND	1.18	.92	.70	CXB500EZ
	Cable Boot SNAGLESS Category 6 (Color: Clear)	991-1123-ND	1.18	.92	.70	CXB600EZ
—	Cable Boot with Strain Relief (Required for Category 6 Plug)	991-1121-ND	1.10	.86	.66	CXB300EZGY
	Tools					
—	Crimp and Trim Tool for EZ-RJ45 Category 5 and 6	991-1124-ND	74.66	72.00	66.67	BD45000

Fig. 1

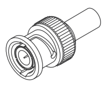

Fig. 2

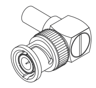

Fig. 3

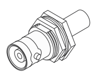

Fig. 4

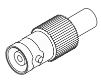

Fig. 5

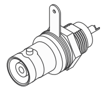

Fig. 6

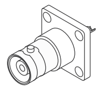

Fig. 7

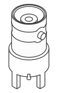

Fig. 8

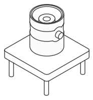

Fig. 9

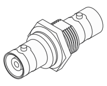

Fig. 10

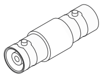

Fig. 11

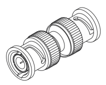

Fig. 12

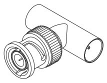

Fig. 13

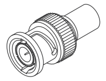

Fig. 14

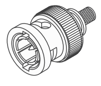

Fig. 15

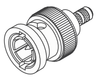

Fig. 16

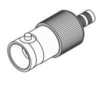

Fig. 17

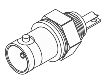

Fig. 18

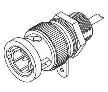

Fig. 19

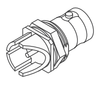

Fig. 20

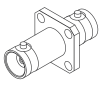

BNC Connectors and Reversed Polarized Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
1	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1000-ND	2.86	2.20	1.98	112116
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1001-ND†	4.00	3.11	2.76	112116RP
	Plug, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1002-ND	2.83	2.18	1.96	112514
	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1003-ND	2.99	2.32	2.06	112597
	Plug, Straight	59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1004-ND	2.86	2.20	1.98	112119
	Plug, Straight	59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1005-ND	2.83	2.18	1.96	112507
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1006-ND	3.92	3.04	2.70	112132
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1007-ND†	4.23	3.29	2.92	112132RP
	Plug, Straight	316, U-Double Braided	Gold	Nickel	Crimp	Crimp	ACX1008-ND	3.22	2.50	2.22	112512
	Plug, Straight	179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1009-ND	3.22	2.50	2.22	112133
	Plug, Straight	179, U-Double Braided	Gold	Nickel	Crimp	Crimp	ACX1010-ND	3.28	2.55	2.26	112644
	Plug, Straight	178, 196	Gold	Nickel	Crimp	Crimp	ACX1011-ND	3.65	2.84	2.52	112516
	Plug, Straight	8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1012-ND	7.10	5.74	5.19	112562
	Plug, Straight	214	Gold	Nickel	Crimp	Crimp	ACX1013-ND	7.10	5.74	5.19	112589
	Plug, Straight	8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1014-ND	2.99	2.30	2.07	112533
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1016-ND	7.10	5.74	5.19	112563
	Plug, Straight	6, 143, 212	Gold	Nickel	Crimp	Crimp	ACX1018-ND	2.96	2.28	2.05	112508
	Plug, Straight	B1694A, B9248	Gold	Nickel	Crimp	Crimp	ACX1019-ND	2.96	2.28	2.05	112565
	Plug, Straight	6 Plenum, B1695A	Gold	Nickel	Crimp	Crimp	ACX1020-ND	3.02	2.33	2.10	112519
	Plug, Straight	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1021-ND	3.71	2.88	2.56	112551
	Plug, Straight	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1022-ND	3.71	2.88	2.56	112552
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1024-ND	5.57	4.32	3.84	112162
	Plug, Right Angle	55, 142A, 223, 400	Gold	Nickel	Crimp	Solder	ACX1025-ND	6.82	5.29	4.70	112526
	Plug, Right Angle	8, 8A, 213, 393	Gold	Nickel	Crimp	Solder	ACX1026-ND	8.79	7.10	6.43	112594
	Plug, Right Angle	174, 188A, 316	Gold	Nickel	Crimp	Solder	ACX1028-ND	6.06	4.71	4.18	112178
	Plug, Right Angle	179, 187A	Gold	Nickel	Crimp	Solder	ACX1029-ND	6.00	4.66	4.14	112179
3	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1030-ND	5.34	4.14	3.68	112202
	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1031-ND†	4.76	3.69	3.28	112202RP
	Bulkhead Jack	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1032-ND	5.02	3.90	3.46	112505
	Bulkhead Jack	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1033-ND	5.28	4.10	3.64	112234
	Bulkhead Jack	316, U-Double Braided	Gold	Nickel	Crimp	Crimp	ACX1034-ND	5.28	4.10	3.64	112517
	Bulkhead Jack	179, 187A, B9221	Gold	Nickel	Crimp	Crimp	ACX1035-ND	5.28	4.10	3.64	112235
	Bulkhead Jack	178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1036-ND	7.67	6.20	5.61	112522
	Bulkhead Jack	.141 Semi-Rigid, 402	Gold	Nickel	Solder	Solder	ACX1037-ND	5.51	4.28	3.80	112581
	Bulkhead Jack	.085 Semi-Rigid, 405	Gold	Nickel	Solder	Solder	ACX1038-ND	5.51	4.28	3.80	112580
4	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1039-ND	3.28	2.55	2.26	112144
	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1040-ND†	3.28	2.55	2.26	112144RP
	Jack, Straight	55, 142, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1041-ND	3.28	2.55	2.26	112513
	Jack, Straight	59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1042-ND	3.22	2.50	2.22	112147
	Jack, Straight	59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1043-ND	3.28	2.55	2.26	112649
	Jack, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1044-ND	3.36	2.61	2.32	112160
	Jack, Straight	179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1045-ND	3.36	2.61	2.32	112161
5	Bulkhead Receptacle, 50Ω	—	Gold	Nickel	—	—	ACX1046-ND	3.19	2.45	2.21	112424
	Bulkhead Receptacle	—	Gold	Nickel	—	—	ACX1047-ND†	8.17	7.10	6.39	112424RP
	Bulkhead Receptacle, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1048-ND	4.76	3.69	3.28	112431
6	Panel Receptacle	—	Gold	Nickel	—	—	ACX1049-ND	5.19	4.03	3.58	112290
7	PCB Receptacle, 4-Legs	—	Gold	Nickel	—	—	ACX1050-ND	3.12	2.40	2.16	112538
	PCB Receptacle, 4-Legs, Short Body	—	Gold	Nickel	—	—	ACX1051-ND	3.34	2.59	2.30	112404
	PCB Receptacle Jack, 3-Legs	—	Gold	Nickel	—	—	ACX1052-ND	5.80	4.50	4.00	112483
8	PCB Receptacle Jack, 50Ω, Vertical	—	Gold	Nickel	—	—	ACX1053-ND	4.44	3.45	3.06	112536
9	Adapter, Bulkhead, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1054-ND	4.79	3.72	3.30	112437
	Adapter, Bulkhead, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1055-ND	4.79	3.72	3.30	112438
	Adapter, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1056-ND	6.76	5.25	4.66	112439
	Adapter, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1057-ND	6.76	5.25	4.66	112440
	Adapter, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1058-ND	5.28	4.10	3.64	112443
	Adapter, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1059-ND	5.28	4.10	3.64	112444
10	Adapter, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1060-ND	3.36	2.61	2.32	112445
	Adapter, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1061-ND	3.36	2.61	2.32	112446
11	Adapter, Plug-Plug, 50Ω	—	Gold	Nickel	—	—	ACX1062-ND	5.63	4.37	3.88	112447
	Adapter, Plug-Plug, 75Ω	—	Gold	Nickel	—	—	ACX1063-ND	5.63	4.37	3.88	112448
12	"T" Adapter, Jack-Plug-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1064-ND	3.54	2.75	2.44	112461
	"T" Adapter, Jack-Plug-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1065-ND	3.97	3.09	2.74	112462
13	Terminator Plug, 50Ω	—	Gold	Nickel	—	—	ACX1066-ND	3.36	2.61	2.32	202103
	Terminator Plug, 75Ω	—	Gold	Nickel	—	—	ACX1067-ND	3.36	2.61	2.32	202105
	Shorting Plug	—	Gold	Nickel	—	—	ACX1069-ND	4.44	3.45	3.06	202114
14	Crimp Plug, 75Ω	100mHz RGB Cable	Gold	Nickel	Crimp	Crimp	ACX1403-ND	3.54	2.75	2.44	112491-10
	Crimp Plug, 75Ω	180, 195, 122, B8218	Gold	Nickel	Crimp	Crimp	ACX1657-ND ***NEW!***	2.83	2.18	1.96	112521
	Crimp Plug, 75Ω	8218	Gold	Nickel	Crimp	Crimp	ACX1660-ND ***NEW!***	3.71	2.88	2.56	112955
15	Crimp Plug, 75Ω	B573945, Mini Max 500 Cable	Gold	Nickel	Crimp	Crimp	ACX1404-ND	2.99	2.30	2.07	112556
	Crimp Plug, 50Ω	174, 188A, 316, B7805A	Gold	Nickel	Crimp	Crimp	ACX1659-ND ***NEW!***	2.99	2.32	2.06	112134
16	Crimp Jack	B573945, Q841 Mini Max 500 Cable	Gold	Nickel	Crimp	Crimp	ACX1405-ND	3.25	2.52	2.24	112638
17	Bulkhead Receptacle Isolated Jack, 75Ω	—	Gold	Nickel	—	—	ACX1406-ND	4.76	3.69	3.28	112432
18	Bulkhead Receptacle Plug	—	Gold	Nickel	—	—	ACX1407-ND	5.34	4.14	3.68	112420
19	Straight Bulkhead Jack, 75Ω	—	Gold	Gold	—	—	ACX1408-ND	8.32	6.72	6.08	112740
20	Jack-Jack Panel Adapter	—	Gold	Nickel	—	—	ACX1474-ND	6.58	5.32	4.81	112712
21	Plug-Jack Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1475-ND	7.46	6.03	5.46	112667
22	PCB Dual Right Angle Receptacle, 75Ω	—	Gold	Nickel	—	—	ACX1655-ND ***NEW!***	10.42	9.06	8.16	112661
23	End Launch Receptacle Jack, 75Ω	—	Gold	Gold	—	—	ACX1661-ND ***NEW!***	5.66	4.39	3.90	112740-13
	End Launch Receptacle Jack, 75Ω	—	Gold	Gold	—	—	ACX1662-ND ***NEW!***	6.12	4.75	4.22	112740-16
—	Jack Cap with Chain	—	—	Nickel	—	—	ACX1476-ND	4.32	3.36	2.98	112713

† Reverse Polarity

SMA and Reverse Polarized SMA Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
24	Direct Solder Plug	.141 Semi-Rigid, 402	—	Gold	Solder	Solder	ACX1175-ND	2.80	2.15	1.94	132100
	Semi-Rigid Plug	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1176-ND	4.55	3.54	3.14	132102
	Semi-Rigid Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1177-ND	4.55	3.54	3.14	132101
	Semi-Rigid Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1178-ND†	6.15	4.77	4.24	132101RP
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Solder	ACX1192-ND	5.28	4.10	3.64	132113
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1193-ND†	6.58	5.11	4.54	132113RP
	Plug, Straight	55, 142A, 223, 400	Gold	Gold	Crimp	Solder	ACX1194-ND	5.28	4.10	3.64	132195
	Plug, Straight	55, 142A, 223, 400	Gold	Gold	Crimp	Solder	ACX1195-ND†	6.15	4.77	4.24	132195RP
	Plug, Straight	LMR200™, B7807A	Gold	Gold	Crimp	Solder	ACX1196-ND	5.45	4.23	3.76	132234
	Plug, Straight	LMR200, B7807A	Gold	Gold	Crimp	Solder	ACX1197-ND†	6.55	5.09	4.52	132234RP
	Plug, Straight	8X, LMR240™, B7808A	Gold	Gold	Crimp	Solder	ACX1198-ND	7.80	6.30	5.70	132231
	Plug, Straight	8X, LMR240, B7808A	Gold	Gold	Crimp	Solder	ACX1199-ND†	8.30	7.22	6.50	132231RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Gold	Crimp	Solder	ACX1200-ND	8.89	7.19	6.50	132298
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Gold	Crimp	Solder	ACX1201-ND†	13.20	11.55	10.96	132298RP
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Solder	ACX1202-ND	5.28	4.10	3.64	132114
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Solder	ACX1203-ND†	7.38	5.97	5.40	132114RP

(Continued)

Fig. 21

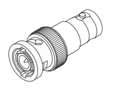

Fig. 22 ***NEW!***

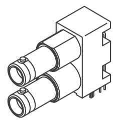

Fig. 23 ***NEW!***

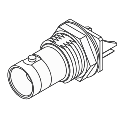

Fig. 24

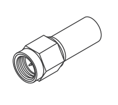

Fig. 25

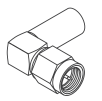

Fig. 26

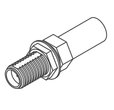

Fig. 27

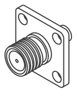

Panel Mount

Fig. 28

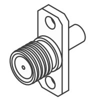

Panel Mount

Fig. 29

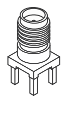

Fig. 30

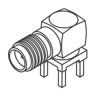

Fig. 31

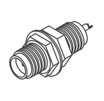

Fig. 32

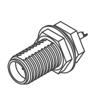

Fig. 33

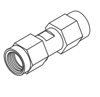

Adapter

Fig. 34

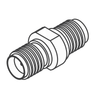

Adapter

Fig. 35

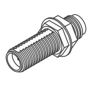

Adapter

Fig. 36

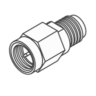

Adapter

Fig. 37

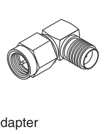

Adapter

Fig. 38

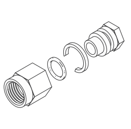

Fig. 39

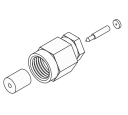

Fig. 40

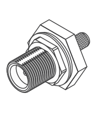

SMA and Reverse Polarized SMA Connectors *(Cont.)*

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
24	Plug, Straight	316, U-Double Braided	Gold	Gold	Crimp	Solder	ACX1204-ND	5.16	4.01	3.56	132178
	Plug, Straight	178B, 196A	Gold	Gold	Crimp	Solder	ACX1206-ND	7.28	5.88	5.32	132193
25	Right Angle, Direct Solder Plug	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1180-ND	7.44	6.01	5.44	132112
	Right Angle, Direct Solder Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1181-ND	7.44	6.01	5.44	132111
	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1207-ND	8.53	6.89	6.24	132122
	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1208-ND†	8.06	6.51	5.89	132122RP
	Right Angle, Crimp Plug	55, 142, 223, 400	Gold	Gold	Crimp	Solder	ACX1209-ND	8.53	6.89	6.24	132194
	Right Angle, Crimp Plug	LMR200, B7807A	Gold	Gold	Crimp	Solder	ACX1210-ND	7.98	6.45	5.84	132235
	Right Angle, Crimp Plug	8X, LMR240™, B7808A	Gold	Gold	Crimp	Crimp	ACX1212-ND	9.94	8.64	7.78	132239
	Right Angle, Crimp Plug	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1214-ND	8.53	6.89	6.24	132123
	Right Angle, Crimp Plug	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1215-ND†	8.06	6.51	5.89	132123RP
	Right Angle, Crimp Plug	316 Double Braided	Gold	Gold	Crimp	Crimp	ACX1216-ND	8.53	6.89	6.24	132182
	Right Angle, Crimp Plug	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1217-ND	7.93	6.41	5.80	132173
26	Bulkhead, Crimp Jack	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1218-ND	6.63	5.36	4.85	132118
	Bulkhead, Crimp Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1219-ND†	7.22	5.61	4.98	132118RP
	Bulkhead, Crimp Jack	55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1220-ND	6.58	5.32	4.81	132191
	Bulkhead, Crimp Jack	55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1221-ND†	5.67	4.59	4.15	132191RP
	Bulkhead, Crimp Jack	8X, LMR240, B7808A	Gold	Gold	Crimp	Crimp	ACX1222-ND	6.66	5.38	4.87	132241
	Bulkhead, Crimp Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1223-ND	7.75	6.26	5.67	132119
	Bulkhead, Crimp Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1224-ND†	6.87	5.34	4.74	132119RP
	Straight, Crimp Jack‡	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1225-ND	7.11	5.52	4.90	132116
	Straight, Crimp Jack‡	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1226-ND†	5.77	4.48	3.98	132116RP
	Straight, Crimp Jack‡	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1227-ND	7.05	5.47	4.86	132117
	Straight, Crimp Jack‡	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1228-ND†	5.89	4.57	4.06	132117RP
	Straight, Crimp Jack‡	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1229-ND	5.86	4.55	4.04	132198
	Direct Solder, Bulkhead Jack	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1182-ND	7.62	6.16	5.57	132106
	Direct Solder, Bulkhead Jack	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1183-ND	7.62	6.16	5.57	132105
	Direct Solder, Bulkhead Jack	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1184-ND	8.00	6.96	6.27	132346
27	Semi-Rigid, Panel Jack, 4-Hole	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1185-ND	7.49	6.05	5.48	132107
	Semi-Rigid, Panel Jack, 4-Hole	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1186-ND	7.64	6.18	5.59	132108
	Panel Jack	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1187-ND†	7.49	6.05	5.48	132108RP
	Receptacle, 4-Hole Flange, PTFE	—	Gold	Gold	—	—	ACX1238-ND	8.19	6.62	5.99	132146
28	Semi-Rigid, Jack, 2-Hole Flange	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1188-ND	7.49	6.05	5.48	132109
	Direct Solder, Jack, 2-Hole Flange	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1190-ND	6.99	5.65	5.12	132110
	Direct Solder, Jack, 2-Hole Flange	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1191-ND†	7.02	5.45	4.84	132110RP
29	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1230-ND	6.15	4.77	4.24	132134
	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1231-ND†	4.96	3.85	3.42	132134RP
30	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1232-ND	8.26	7.18	6.47	132136
	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1233-ND†	8.68	7.02	6.35	132136RP
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1234-ND	11.16	9.70	8.73	132203
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1235-ND†	9.73	8.46	7.62	132203RP
31	Bulkhead, Receptacle, Front Mount	—	Gold	Gold	—	—	ACX1236-ND	6.89	5.57	5.04	132137
32	Bulkhead, Receptacle, Rear Mount	—	Gold	Gold	—	—	ACX1237-ND	7.11	5.52	4.90	132139
33	Plug to Plug	—	Gold	Gold	—	—	ACX1240-ND	7.57	6.12	5.53	132168
	Plug to R-P Plug	—	Gold	Gold	—	—	ACX1241-ND†	10.80	9.45	8.97	132168RP
34	Jack to Jack	—	Gold	Gold	—	—	ACX1242-ND	6.90	5.36	4.76	132169
	Jack to R-P Jack	—	Gold	Gold	—	—	ACX1243-ND†	8.79	7.10	6.43	132169RP
35	Bulkhead, Jack to Jack	—	Gold	Gold	—	—	ACX1244-ND	8.37	7.28	6.56	132170
	Bulkhead, Jack to R-P Jack	—	Gold	Gold	—	—	ACX1245-ND†	10.50	9.19	8.72	132170RP
36	Plug to Jack	—	Gold	Gold	—	—	ACX1246-ND	7.64	6.18	5.59	132171
	R-P Jack to Plug	—	Gold	Gold	—	—	ACX1247-ND†	6.89	5.57	5.04	132171RP
	Jack to R-P Plug	—	Gold	Gold	—	—	ACX1248-ND†	6.89	5.57	5.04	132171RP-10
37	Plug to Jack, Right Angle	—	Gold	Gold	—	—	ACX1249-ND	9.84	8.56	7.71	132172
38	Direct Solder Plug	.141 Semi-Rigid	—	Gold	Solder	Solder	ACX1419-ND	5.57	4.32	3.84	132179
39	Direct Solder Plug	.085 and .086 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1420-ND	6.21	4.82	4.28	132188
40	Bulkhead Crimp Jack O-Ring Seal	174, 188A, 316	Gold	Gold	Crimp	Solder	ACX1421-ND	7.64	6.18	5.59	132284
41	Bulkhead Crimp Jack O-Ring Seal	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1422-ND	7.64	6.18	5.59	132286
	Bulkhead Crimp Jack O-Ring Seal	178B, 196A	Gold	Gold	Crimp	Solder	ACX1423-ND†	7.20	5.82	5.27	132286RP
42	End Launch Receptacle	—	Gold	Gold	—	—	ACX1424-ND	8.29	6.70	6.07	132255
	End Launch Receptacle	—	Gold	Gold	—	—	ACX1425-ND†	7.38	5.97	5.40	132255RP
	End Launch Receptacle	—	Gold	Gold	—	—	ACX1652-ND ***NEW!***	8.37	6.77	6.12	132322
43	End Launch Receptacle	—	Gold	Gold	—	—	ACX1426-ND	7.15	5.78	5.23	132289
	End Launch Receptacle	—	Gold	Gold	—	—	ACX1427-ND†	7.96	6.43	5.82	132289RP
44	Four Hole Panel Receptacle Plug	—	Gold	Gold	—	—	ACX1428-ND	8.10	7.04	6.34	132144
45	Two Hole Plug (.591" ~ .705")	—	Gold	Gold	—	—	ACX1429-ND	8.79	7.10	6.43	132145
46	Right Angle Plug-Plug Adapter	—	Gold	Gold	—	—	ACX1430-ND	9.09	7.90	7.11	132339
47	Right Angle Jack-Jack Adapter	—	Gold	Gold	—	—	ACX1431-ND	8.17	7.10	6.39	132274
48	"T" Adapter, Jack-Jack-Jack	—	Gold	Gold	—	—	ACX1432-ND	10.98	9.61	9.12	132216
49	"T" Adapter, Jack-Plug-Jack	—	Gold	Gold	—	—	ACX1433-ND	11.38	9.96	9.45	132217
50	Bulkhead Crimp Jack O-Ring Seal	58C, 58	Gold	Gold	Crimp	Crimp	ACX1477-ND	8.16	6.60	5.97	132280
—	Receptacle, 2-Hole Flange, PTFE	—	Gold	Gold	—	—	ACX1239-ND	8.53	6.89	6.24	132147
	Plug Cap (Less Chain)	—	—	Gold	—	—	ACX1250-ND	2.67	2.05	1.85	202112
	Terminator Plug, 50Ω	—	Gold	Gold	—	—	ACX1251-ND	3.86	3.00	2.66	132360
	Terminator Jack, 50Ω	—	Gold	Gold	—	—	ACX1252-ND	6.47	5.02	4.46	132361
	Plug Cap with Chain	—	—	Gold	—	—	ACX1434-ND	2.83	2.18	1.96	202112-10
	Jack Cap with Chain	—	—	Gold	—	—	ACX1435-ND	5.22	4.05	3.60	132348
	Terminator Plug	—	Gold	Gold	—	—	ACX1436-ND†	6.41	4.98	4.42	132360RP

† Reverse Polarity ‡ Nut and Washer not included

SMB and MINI 75 Ohm SMB Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
51	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1278-ND	6.53	5.28	4.77	142255
	Plug, Straight	55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1279-ND	7.44	6.01	5.44	142220
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1280-ND	6.97	5.63	5.10	142186
	Plug, Straight, Mini 75Ω	179, 187,	Gold	Gold	Crimp	Crimp	ACX1281-ND	7.02	5.67	5.13	142186-75
	Plug, Straight	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1282-ND	7.05	5.70	5.15	142187
	Plug, Straight	178, 196	Gold	Gold	Crimp	Crimp	ACX1284-ND	7.05	5.70	5.15	142229
	Direct Solder Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1285-ND	6.53	5.28	4.77	142212
	Direct Solder Plug, Mini 75Ω	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1286-ND	6.06	4.71	4.18	142212-75
	Plug, Straight, Mini 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Crimp	ACX1287-ND	7.02	5.67	5.13	142222-75
52	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1288-ND	9.11	7.92	7.13	142206
	Right Angle, Crimp Plug	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1290-ND	6.93	5.38	4.78	142194
	Right Angle, Crimp Plug, Mini 75Ω	174, 188A	Gold	Gold	Crimp	Crimp	ACX1291-ND	7.51	6.07	5.50	142194-75
	Right Angle, Crimp Plug	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1292-ND	8.53	6.89	6.24	142176
	Right Angle, Crimp Plug	178, 196	Gold	Gold	Crimp	Crimp	ACX1294-ND	6.93	6.03	5.43	142195
	Right Angle, Direct Solder, Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1295-ND	7.90	6.39	5.78	142214
	Right Angle, Crimp Plug, Mini 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Solder	ACX1297-ND	7.72	6.24	5.65	142221-75
53	Bulkhead, Crimp Jack	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1298-ND	5.71	4.44	3.94	142191
	Bulkhead, Crimp Jack, Mini 75Ω	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1299-ND	5.77	4.48	3.98	142191-75
	Bulkhead, Crimp Jack	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1300-ND	5.77	4.48	3.98	142192
	Bulkhead, Crimp Jack	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1302-ND	5.89	4.57	4.06	142231

(Continued)

Fig. 41

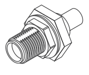

Fig. 42

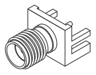

Fig. 43

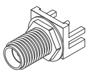

Fig. 44

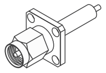

Fig. 45

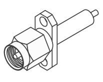

Fig. 46

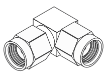

Fig. 47

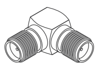

Fig. 48

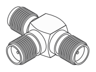

Fig. 49

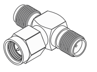

Fig. 50

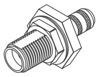

Fig. 51

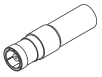

Fig. 52

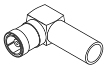

Fig. 53

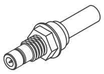

Fig. 54

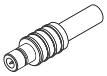

Fig. 55

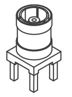

Fig. 56

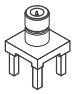

Fig. 57

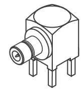

Right Angle

Fig. 58

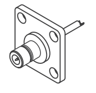

Fig. 59

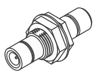

Fig. 60

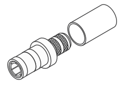

SMB and MINI 75 Ohm SMB Connectors *(Cont.)*

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
53	Bulkhead, Receptacle Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	—	—	ACX1309-ND	4.41	3.42	3.04	142154
54	Straight Jack	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1304-ND	4.99	3.87	3.44	142189
	Straight Jack, Mini 75Ω	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1305-ND	5.05	3.92	3.48	142189-75
	Straight Jack	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1306-ND	4.84	3.76	3.34	142190
	Straight Jack	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1308-ND	6.58	5.32	4.81	142241
55	PCB Straight Plug	—	Gold	Gold	—	—	ACX1310-ND	6.90	5.36	4.76	142134
	PCB Straight Plug, Mini 75Ω	—	Gold	Gold	—	—	ACX1311-ND	6.93	5.38	4.78	142134-75
56	PCB Jack	—	Gold	Gold	—	—	ACX1312-ND	3.54	2.75	2.44	142138
	PCB Jack, Mini 75Ω	—	Gold	Gold	—	—	ACX1313-ND	3.71	2.88	2.56	142138-75
	PCB Bulkhead Receptacle	—	Gold	Gold	—	—	ACX1314-ND	6.26	4.86	4.32	142210
	PCB Bulkhead Receptacle, Mini 75Ω	—	Gold	Gold	—	—	ACX1315-ND	5.46	4.24	3.77	142210-75
57	PCB, Jack	—	Gold	Gold	—	—	ACX1316-ND	6.29	4.89	4.34	142146
	PCB, Jack, Mini 75Ω	—	Gold	Gold	—	—	ACX1317-ND	7.02	5.67	5.13	142146-75
	PCB, Bulkhead, Jack	—	Gold	Gold	—	—	ACX1318-ND	7.93	6.41	5.80	142184
58	Panel Receptacle, 4-Hole Flange	—	Gold	Gold	—	—	ACX1320-ND	8.12	7.06	6.36	142162
59	Bulkhead Jack-Jack Adapter 50Ω	—	Gold	Gold	—	—	ACX1437-ND	6.87	5.34	4.74	142250
60	Straight Plug, Mini 75Ω	59, 20AWG	Gold	Gold	Crimp	Crimp	ACX1478-ND	11.34	9.93	9.42	142335-75
61	Plug-Plug Adapter	—	Gold	Gold	—	—	ACX1479-ND	9.05	7.31	6.62	142246
62	Right Angle Plug-Jack Adapter	—	Gold	Gold	—	—	ACX1480-ND	10.53	9.16	8.25	142248
—	Panel Receptacle, 2-Hole Flange	—	Gold	Gold	—	—	ACX1321-ND	6.38	4.95	4.40	142166

SMA Cables to SMA Cables

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
63	Straight Plug-Plug, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1567-ND	10.24	8.90	8.01	135101-01-06.00
	Straight Plug-Plug, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1568-ND	10.97	9.54	8.59	135101-01-12.00
	Straight Plug-Plug, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1569-ND	10.84	9.49	9.00	135101-01-24.00
	Straight Plug-Plug, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1570-ND	12.12	10.61	10.06	135101-01-36.00
	Straight Plug-Plug, Length: 6.00"	174	Gold	Crimp	Crimp	ACX1571-ND	9.98	8.68	7.82	135101-02-06.00
	Straight Plug-Plug, Length: 12.00"	174	Gold	Crimp	Crimp	ACX1572-ND	10.49	9.12	8.21	135101-02-12.00
	Straight Plug-Plug, Length: 24.00"	174	Gold	Crimp	Crimp	ACX1573-ND	11.48	9.98	8.99	135101-02-24.00
	Straight Plug-Plug, Length: 36.00"	174	Gold	Crimp	Crimp	ACX1574-ND	10.84	9.49	9.00	135101-02-36.00
	Straight Plug-Plug, Double Braid, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1575-ND	11.32	9.84	8.86	135101-03-06.00
	Straight Plug-Plug, Double Braid, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1576-ND	11.22	9.82	9.32	135101-03-12.00
	Straight Plug-Plug, Double Braid, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1577-ND	13.96	12.22	11.59	135101-03-24.00
	Straight Plug-Plug, Double Braid, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1578-ND	14.20	12.99	12.11	135101-03-36.00
	Straight Plug-Plug, Length: 6.00"	58	Gold	Crimp	Crimp	ACX1579-ND	9.98	8.68	7.82	135101-04-06.00
	Straight Plug-Plug, Length: 12.00"	58	Gold	Crimp	Crimp	ACX1580-ND	10.49	9.12	8.21	135101-04-12.00
	Straight Plug-Plug, Length: 24.00"	58	Gold	Crimp	Crimp	ACX1581-ND	10.02	8.77	8.32	135101-04-24.00
	Straight Plug-Plug, Length: 36.00"	58	Gold	Crimp	Crimp	ACX1582-ND	10.92	9.56	9.07	135101-04-36.00
	Straight Plug-Plug, Length: 48.00"	58	Gold	Crimp	Crimp	ACX1583-ND	11.80	10.33	9.80	135101-04-48.00
64	Straight Plug-R/A Plug, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1584-ND	10.36	9.07	8.60	135103-01-06.00
	Straight Plug-R/A Plug, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1585-ND	11.00	9.63	9.13	135103-01-12.00
	Straight Plug-R/A Plug, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1586-ND	12.30	10.77	10.21	135103-01-24.00
	Straight Plug-R/A Plug, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1587-ND	13.60	11.90	11.29	135103-01-36.00
	Straight Plug-R/A Plug, Length: 6.00"	174	Gold	Crimp	Crimp	ACX1588-ND	10.14	8.88	8.42	135103-02-06.00
	Straight Plug-R/A Plug, Length: 12.00"	174	Gold	Crimp	Crimp	ACX1589-ND	10.58	9.26	8.79	135103-02-12.00
	Straight Plug-R/A Plug, Length: 24.00"	174	Gold	Crimp	Crimp	ACX1590-ND	11.44	10.01	9.50	135103-02-24.00
	Straight Plug-R/A Plug, Length: 36.00"	174	Gold	Crimp	Crimp	ACX1591-ND	12.30	10.77	10.21	135103-02-36.00
	Straight Plug-R/A Plug, Double Braid, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1592-ND	11.40	9.98	9.47	135103-03-06.00
	Straight Plug-R/A Plug, Double Braid, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1593-ND	12.76	11.17	10.60	135103-03-12.00
	Straight Plug-R/A Plug, Double Braid, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1594-ND	13.18	12.06	11.24	135103-03-24.00
	Straight Plug-R/A Plug, Double Braid, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1595-ND	15.50	14.19	13.23	135103-03-36.00
	Straight Plug-R/A Plug, Length: 6.00"	58	Gold	Crimp	Crimp	ACX1596-ND	11.32	9.84	8.86	135103-04-06.00
	Straight Plug-R/A Plug, Length: 12.00"	58	Gold	Crimp	Crimp	ACX1597-ND	10.28	9.00	8.54	135103-04-12.00
	Straight Plug-R/A Plug, Length: 24.00"	58	Gold	Crimp	Crimp	ACX1598-ND	11.16	9.77	9.27	135103-04-24.00
	Straight Plug-R/A Plug, Length: 36.00"	58	Gold	Crimp	Crimp	ACX1599-ND	12.06	10.56	10.01	135103-04-36.00
	Straight Plug-R/A Plug, Length: 48.00"	58	Gold	Crimp	Crimp	ACX1600-ND	12.96	11.34	10.76	135103-04-48.00
65	Right Angle Plug-Plug, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1601-ND	11.82	10.35	9.82	135104-01-06.00
	Right Angle Plug-Plug, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1602-ND	12.48	10.92	10.36	135104-01-12.00
	Right Angle Plug-Plug, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1603-ND	13.76	12.04	11.43	135104-01-24.00
	Right Angle Plug-Plug, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1604-ND	12.80	11.71	10.92	135104-01-36.00
	Right Angle Plug-Plug, Length: 6.00"	174	Gold	Crimp	Crimp	ACX1605-ND	11.62	10.17	9.65	135104-02-06.00
	Right Angle Plug-Plug, Length: 12.00"	174	Gold	Crimp	Crimp	ACX1606-ND	12.04	10.54	10.00	135104-02-12.00
	Right Angle Plug-Plug, Length: 24.00"	174	Gold	Crimp	Crimp	ACX1607-ND	12.90	11.29	10.71	135104-02-24.00
	Right Angle Plug-Plug, Length: 36.00"	174	Gold	Crimp	Crimp	ACX1608-ND	13.76	12.04	11.43	135104-02-36.00
	Right Angle Plug-Plug, Double Braid, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1609-ND	12.94	11.33	10.75	135104-03-06.00
	Right Angle Plug-Plug, Double Braid, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1610-ND	14.30	12.52	11.87	135104-03-12.00
	Right Angle Plug-Plug, Double Braid, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1611-ND	14.48	13.25	12.36	135104-03-24.00
	Right Angle Plug-Plug, Double Braid, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1612-ND	16.81	15.38	14.35	135104-03-36.00
	Right Angle Plug-Plug, Length: 6.00"	58	Gold	Crimp	Crimp	ACX1613-ND	10.98	9.61	9.12	135104-04-06.00
	Right Angle Plug-Plug, Length: 12.00"	58	Gold	Crimp	Crimp	ACX1614-ND	11.42	10.00	9.48	135104-04-12.00
	Right Angle Plug-Plug, Length: 24.00"	58	Gold	Crimp	Crimp	ACX1615-ND	12.32	10.78	10.23	135104-04-24.00
	Right Angle Plug-Plug, Length: 36.00"	58	Gold	Crimp	Crimp	ACX1616-ND	13.22	11.57	10.98	135104-04-36.00
	Right Angle Plug-Plug, Length: 48.00"	58	Gold	Crimp	Crimp	ACX1617-ND	14.10	12.34	11.71	135104-04-48.00
66	Straight Plug-Bulkhead Jack, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1618-ND	10.04	8.79	8.34	135110-01-06.00
	Straight Plug-Bulkhead Jack, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1619-ND	10.68	9.35	8.87	135110-01-12.00
	Straight Plug-Bulkhead Jack, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1620-ND	11.98	10.49	9.95	135110-01-24.00
	Straight Plug-Bulkhead Jack, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1621-ND	13.26	11.61	11.01	135110-01-36.00
	Straight Plug-Bulkhead Jack, Length: 6.00"	174	Gold	Crimp	Crimp	ACX1622-ND	10.22	8.95	8.49	135110-02-06.00
	Straight Plug-Bulkhead Jack, Length: 12.00"	174	Gold	Crimp	Crimp	ACX1623-ND	10.66	9.33	8.85	135110-02-12.00
	Straight Plug-Bulkhead Jack, Length: 24.00"	174	Gold	Crimp	Crimp	ACX1624-ND	11.52	10.08	9.57	135110-02-24.00
	Straight Plug-Bulkhead Jack, Length: 36.00"	174	Gold	Crimp	Crimp	ACX1625-ND	12.38	10.84	10.28	135110-02-36.00
	Straight Plug-Bulkhead Jack, Double Braid, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1626-ND	11.28	9.87	9.37	135110-03-06.00
	Straight Plug-Bulkhead Jack, Double Braid, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1627-ND	12.64	11.06	10.50	135110-03-12.00
	Straight Plug-Bulkhead Jack, Double Braid, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1628-ND	13.07	11.96	11.16	135110-03-24.00
	Straight Plug-Bulkhead Jack, Double Braid, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1629-ND	15.40	14.09	13.14	135110-03-36.00
	Straight Plug-Bulkhead Jack, Length: 6.00"	58	Gold	Crimp	Crimp	ACX1630-ND	11.36	9.88	8.90	135110-04-06.00
	Straight Plug-Bulkhead Jack, Length: 12.00"	58	Gold	Crimp	Crimp	ACX1631-ND	10.32	9.03	8.57	135110-04-12.00
	Straight Plug-Bulkhead Jack, Length: 24.00"	58	Gold	Crimp	Crimp	ACX1632-ND	11.22	9.82	9.32	135110-04-24.00
	Straight Plug-Bulkhead Jack, Length: 36.00"	58	Gold	Crimp	Crimp	ACX1633-ND	12.10	10.59	10.05	135110-04-36.00
	Straight Plug-Bulkhead Jack, Length: 48.00"	58	Gold	Crimp	Crimp	ACX1634-ND	13.00	11.38	10.79	135110-04-48.00
67	R/A Plug-Bulkhead Jack, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1635-ND	11.50	10.07	9.55	135111-01-06.00
	R/A Plug-Bulkhead Jack, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1636-ND	12.16	10.64	10.10	135111-01-12.00
	R/A Plug-Bulkhead Jack, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1637-ND	13.44	11.76	11.16	135111-01-24.00
	R/A Plug-Bulkhead Jack, Length: 36.00"	316	Gold	Crimp	Crimp	ACX1638-ND	14.74	12.90	12.24	135111-01-36.00
	R/A Plug-Bulkhead Jack, Length: 6.00"	174	Gold	Crimp	Crimp	ACX1639-ND	11.68	10.22	9.70	135111-02-06.00
	R/A Plug-Bulkhead Jack, Length: 12.00"	174	Gold	Crimp	Crimp	ACX1640-ND	12.12	10.61	10.06	135111-02-12.00
	R/A Plug-Bulkhead Jack, Length: 24.00"	174	Gold	Crimp	Crimp	ACX1641-ND	12.98	11.36	10.78	135111-02-24.00
	R/A Plug-Bulkhead Jack, Length: 36.00"	174	Gold	Crimp	Crimp	ACX1642-ND	13.84	12.11	11.49	135111-02-36.00
	R/A Plug-Bulkhead Jack, Double Braid, Length: 6.00"	316	Gold	Crimp	Crimp	ACX1643-ND	12.82	11.22	10.65	135111-03-06.00
	R/A Plug-Bulkhead Jack, Double Braid, Length: 12.00"	316	Gold	Crimp	Crimp	ACX1644-ND	14.20	12.43	11.79	135111-03-12.00
	R/A Plug-Bulkhead Jack, Double Braid, Length: 24.00"	316	Gold	Crimp	Crimp	ACX1645-ND	14.38	13.16	12.27	135111-03-24.00

(Continued)

Fig. 61

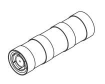

Fig. 62

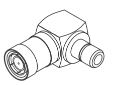

Fig. 63

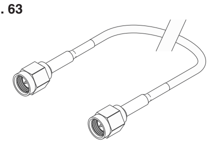

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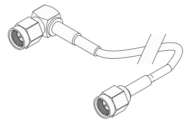

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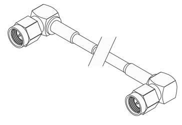

Fig. 66

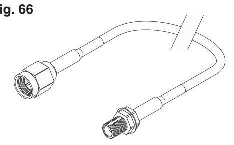

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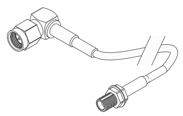

Fig. 68 ***NEW!***

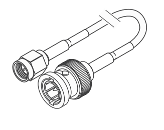

Fig. 69 ***NEW!***

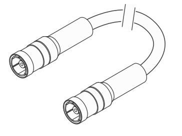

Fig. 70 ***NEW!***

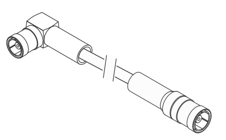

Fig. 71 ***NEW!***

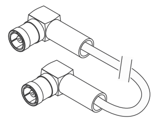

SMA Cables to SMA Cables *(Cont.)*

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
				Outer	Inner		1	25	50	
67	R/A Plug-Bulkhead Jack, Double Braid, Length: 36.00”	316	Gold	Crimp	Crimp	ACX1646-ND	16.71	15.29	14.26	135111-03-36.00
	R/A Plug-Bulkhead Jack, Length: 6.00”	58	Gold	Crimp	Crimp	ACX1647-ND	11.02	9.65	9.15	135111-04-06.00
	R/A Plug-Bulkhead Jack, Length: 12.00”	58	Gold	Crimp	Crimp	ACX1648-ND	11.48	10.05	9.53	135111-04-12.00
	R/A Plug-Bulkhead Jack, Length: 24.00”	58	Gold	Crimp	Crimp	ACX1649-ND	12.36	10.82	10.26	135111-04-24.00
	R/A Plug-Bulkhead Jack, Length: 36.00”	58	Gold	Crimp	Crimp	ACX1650-ND	13.26	11.61	11.01	135111-04-36.00
	R/A Plug-Bulkhead Jack, Length: 48.00”	58	Gold	Crimp	Crimp	ACX1651-ND	14.14	12.38	11.74	135111-04-48.00
—	SMA Male to SMA Male, Length: 3.00”	Hand Formable .085	Gold	Solder	Solder	ACX1663-ND ***NEW!***	9.43	8.20	7.38	135101-R1-03.00
	SMA Male to SMA Male, Length: 4.00”	Hand Formable .085	Gold	Solder	Solder	ACX1664-ND ***NEW!***	10.44	9.08	8.17	135101-R1-04.00
	SMA Male to SMA Male, Length: 5.00”	Hand Formable .085	Gold	Solder	Solder	ACX1665-ND ***NEW!***	10.81	9.40	8.46	135101-R1-05.00
	SMA Male to SMA Male, Length: 6.00”	Hand Formable .085	Gold	Solder	Solder	ACX1666-ND ***NEW!***	11.13	9.68	8.71	135101-R1-06.00
	SMA Male to SMA Male, Length: 7.00”	Hand Formable .085	Gold	Solder	Solder	ACX1667-ND ***NEW!***	10.00	8.75	8.30	135101-R1-07.00
	SMA Male to SMA Male, Length: 8.00”	Hand Formable .085	Gold	Solder	Solder	ACX1668-ND ***NEW!***	10.28	9.00	8.53	135101-R1-08.00
	SMA Male to SMA Male, Length: 9.00”	Hand Formable .085	Gold	Solder	Solder	ACX1669-ND ***NEW!***	10.60	9.28	8.80	135101-R1-09.00
	SMA Male to SMA Male, Length: 10.00”	Hand Formable .085	Gold	Solder	Solder	ACX1670-ND ***NEW!***	10.88	9.52	9.03	135101-R1-10.00
	SMA Male to SMA Male, Length: 11.00”	Hand Formable .085	Gold	Solder	Solder	ACX1671-ND ***NEW!***	11.20	9.80	9.30	135101-R1-11.00
	SMA Male to SMA Male, Length: 12.00”	Hand Formable .085	Gold	Solder	Solder	ACX1672-ND ***NEW!***	11.48	10.05	9.53	135101-R1-12.00
	SMA Male to SMA Male, Length: 18.00”	Hand Formable .085	Gold	Solder	Solder	ACX1673-ND ***NEW!***	13.28	11.62	11.02	135101-R1-18.00
	SMA Male to SMA Male, Length: 24.00”	Hand Formable .085	Gold	Solder	Solder	ACX1674-ND ***NEW!***	12.78	11.70	10.91	135101-R1-24.00
	SMA Male to SMA Male, Length: 3.00”	Hand Formable .141	Gold	Solder	Solder	ACX1675-ND ***NEW!***	10.35	9.00	8.10	135101-R2-03.00
	SMA Male to SMA Male, Length: 4.00”	Hand Formable .141	Gold	Solder	Solder	ACX1676-ND ***NEW!***	10.58	9.20	8.28	135101-R2-04.00
	SMA Male to SMA Male, Length: 5.00”	Hand Formable .141	Gold	Solder	Solder	ACX1677-ND ***NEW!***	10.95	9.52	8.57	135101-R2-05.00
	SMA Male to SMA Male, Length: 6.00”	Hand Formable .141	Gold	Solder	Solder	ACX1678-ND ***NEW!***	11.32	9.84	8.86	135101-R2-06.00
	SMA Male to SMA Male, Length: 7.00”	Hand Formable .141	Gold	Solder	Solder	ACX1679-ND ***NEW!***	10.16	8.89	8.43	135101-R2-07.00
	SMA Male to SMA Male, Length: 8.00”	Hand Formable .141	Gold	Solder	Solder	ACX1680-ND ***NEW!***	10.52	9.21	8.53	135101-R2-08.00
	SMA Male to SMA Male, Length: 9.00”	Hand Formable .141	Gold	Solder	Solder	ACX1681-ND ***NEW!***	10.84	9.49	9.00	135101-R2-09.00
	SMA Male to SMA Male, Length: 10.00”	Hand Formable .141	Gold	Solder	Solder	ACX1682-ND ***NEW!***	11.16	9.77	9.26	135101-R2-10.00
	SMA Male to SMA Male, Length: 11.00”	Hand Formable .141	Gold	Solder	Solder	ACX1683-ND ***NEW!***	11.48	10.05	10.04	135101-R2-11.00
	SMA Male to SMA Male, Length: 12.00”	Hand Formable .141	Gold	Solder	Solder	ACX1684-ND ***NEW!***	11.80	10.33	9.80	135101-R2-12.00
	SMA Male to SMA Male, Length: 18.00”	Hand Formable .141	Gold	Solder	Solder	ACX1685-ND ***NEW!***	13.72	12.01	11.39	135101-R2-18.00
	SMA Male to SMA Male, Length: 24.00”	Hand Formable .141	Gold	Solder	Solder	ACX1686-ND ***NEW!***	13.33	12.20	11.37	135101-R2-24.00
	SMA Male to SMA Male, Length: 6.00”	RG-142	Gold	Crimp	Solder	ACX1687-ND ***NEW!***	11.76	10.29	9.76	135101-07-06.00
	SMA Male to SMA Male, Length: 12.00”	RG-142	Gold	Crimp	Solder	ACX1688-ND ***NEW!***	13.58	11.89	11.27	135101-07-12.00
	SMA Male to SMA Male, Length: 18.00”	RG-142	Gold	Crimp	Solder	ACX1689-ND ***NEW!***	13.07	11.96	11.15	135101-07-18.00
	SMA Male to SMA Male, Length: 24.00”	RG-142	Gold	Crimp	Solder	ACX1690-ND ***NEW!***	14.62	13.38	12.47	135101-07-24.00
	SMA Male to SMA Male, Length: 36.00”	RG-142	Gold	Crimp	Solder	ACX1691-ND ***NEW!***	15.60	14.56	14.04	135101-07-36.00
	SMA Male to SMA Male, Length: 48.00”	RG-142	Gold	Crimp	Solder	ACX1692-ND ***NEW!***	18.32	17.10	16.48	135101-07-48.00
	SMA Male to SMA Male, Right Angle, Length: 6.00”	RG-142	Gold	Crimp	Solder	ACX1693-ND ***NEW!***	13.74	12.03	11.41	135103-07-06.00
	SMA Male to SMA Male, Right Angle, Length: 12.00”	RG-142	Gold	Crimp	Solder	ACX1694-ND ***NEW!***	13.21	12.09	11.27	135103-07-12.00
	SMA Male to SMA Male, Right Angle, Length: 18.00”	RG-142	Gold	Crimp	Solder	ACX1695-ND ***NEW!***	14.76	13.50	12.59	135103-07-18.00
	SMA Male to SMA Male, Right Angle, Length: 24.00”	RG-142	Gold	Crimp	Solder	ACX1696-ND ***NEW!***	16.29	14.90	13.89	135103-07-24.00
	SMA Male to SMA Male, Right Angle, Length: 36.00”	RG-142	Gold	Crimp	Solder	ACX1697-ND ***NEW!***	17.09	15.95	15.38	135103-07-36.00
	SMA Male to SMA Male, Right Angle, Length: 48.00”	RG-142	Gold	Crimp	Solder	ACX1698-ND ***NEW!***	19.80	18.48	17.82	135103-07-48.00
	SMA Male, R/A to SMA Male, R/A, Length: 6.00”	RG-142	Gold	Crimp	Solder	ACX1699-ND ***NEW!***	13.36	12.23	11.40	135104-07-06.00
	SMA Male, R/A to SMA Male, R/A, Length: 12.00”	RG-142	Gold	Crimp	Solder	ACX1700-ND ***NEW!***	14.89	13.63	12.70	135104-07-12.00
	SMA Male, R/A to SMA Male, R/A, Length: 18.00”	RG-142	Gold	Crimp	Solder	ACX1701-ND ***NEW!***	16.42	15.03	14.00	135104-07-18.00
	SMA Male, R/A to SMA Male, R/A, Length: 24.00”	RG-142	Gold	Crimp	Solder	ACX1702-ND ***NEW!***	15.86	14.80	14.27	135104-07-24.00
	SMA Male, R/A to SMA Male, R/A, Length: 36.00”	RG-142	Gold	Crimp	Solder	ACX1703-ND ***NEW!***	18.57	17.34	16.71	135104-07-36.00
	SMA Male, R/A to SMA Male, R/A, Length: 48.00”	RG-142	Gold	Crimp	Solder	ACX1704-ND ***NEW!***	21.27	19.86	19.14	135104-07-48.00
	SMA Female to SMA Male, Length: 6.00”	RG-142	Gold	Crimp	Solder	ACX1705-ND ***NEW!***	12.76	11.17	10.59	135110-07-06.00
	SMA Female to SMA Male, Length: 12.00”	RG-142	Gold	Crimp	Solder	ACX1706-ND ***NEW!***	14.56	12.74	12.08	135110-07-12.00
	SMA Female to SMA Male, Length: 18.00”	RG-142	Gold	Crimp	Solder	ACX1707-ND ***NEW!***	13.91	12.72	11.86	135110-07-18.00
	SMA Female to SMA Male, Length: 24.00”	RG-142	Gold	Crimp	Solder	ACX1708-ND ***NEW!***	15.45	14.14	13.18	135110-07-24.00
	SMA Female to SMA Male, Length: 36.00”	RG-142	Gold	Crimp	Solder	ACX1709-ND ***NEW!***	16.35	15.26	14.72	135110-07-36.00
	SMA Female to SMA Male, Length: 48.00”	RG-142	Gold	Crimp	Solder	ACX1710-ND ***NEW!***	19.05	17.78	17.15	135110-07-48.00
	SMA Female to SMA Male, Right Angle, Length: 6.00”	RG-142	Gold	Crimp	Solder	ACX1711-ND ***NEW!***	14.72	12.88	12.22	135111-07-06.00
	SMA Female to SMA Male, Right Angle, Length: 12.00”	RG-142	Gold	Crimp	Solder	ACX1712-ND ***NEW!***	14.06	12.86	11.99	135111-07-12.00
	SMA Female to SMA Male, Right Angle, Length: 18.00”	RG-142	Gold	Crimp	Solder	ACX1713-ND ***NEW!***	15.59	14.26	13.30	135111-07-18.00
	SMA Female to SMA Male, Right Angle, Length: 24.00”	RG-142	Gold	Crimp	Solder	ACX1714-ND ***NEW!***	15.11	14.10	13.10	135111-07-24.00
	SMA Female to SMA Male, Right Angle, Length: 36.00”	RG-142	Gold	Crimp	Solder	ACX1715-ND ***NEW!***	17.82	16.64	16.07	135111-07-36.00
	SMA Female to SMA Male, Right Angle, Length: 48.00”	RG-142	Gold	Crimp	Solder	ACX1716-ND ***NEW!***	20.54	19.17	18.48	135111-07-48.00

NEW! SMA Plug to BNC Plug

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
				Outer	Inner		1	25	50	
68	SMA Male to BNC Male, Length: 6.00”	316	Gold	Crimp	Crimp	ACX1717-ND	10.95	9.52	8.57	245101-01-06.00
	SMA Male to BNC Male, Length: 12.00”	316	Gold	Crimp	Crimp	ACX1718-ND	10.22	8.95	8.49	245101-01-12.00
	SMA Male to BNC Male, Length: 24.00”	316	Gold	Crimp	Crimp	ACX1719-ND	11.72	10.26	9.73	245101-01-24.00
	SMA Male to BNC Male, Length: 36.00”	316	Gold	Crimp	Crimp	ACX1720-ND	13.10	11.47	10.88	245101-01-36.00
	SMA Male to BNC Male, Length: 12.00”	58	Gold	Crimp	Crimp	ACX1721-ND	10.10	8.78	7.91	245101-04-12.00
	SMA Male to BNC Male, Length: 24.00”	58	Gold	Crimp	Crimp	ACX1722-ND	11.39	9.90	8.91	245101-04-24.00
	SMA Male to BNC Male, Length: 36.00”	58	Gold	Crimp	Crimp	ACX1723-ND	10.86	9.51	9.02	245101-04-36.00
	SMA Male to BNC Male, Length: 12.00”	142	Gold	Crimp	Crimp	ACX1724-ND	12.26	10.73	10.18	245101-07-12.00
	SMA Male to BNC Male, Length: 24.00”	142	Gold	Crimp	Crimp	ACX1725-ND	14.86	13.60	12.68	245101-07-24.00
	SMA Male to BNC Male, Length: 36.00”	142	Gold	Crimp	Crimp	ACX1726-ND	16.89	15.77	15.21	245101-07-36.00

NEW! SMB Plug to SMB Plug

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
				Outer	Inner		1	25	50	
69	Mini 75Ω SMB Crimp Plug to Mini 75Ω SMB Crimp Plug, Length: 6.00”	179	Gold	Crimp	Crimp	ACX1727-ND	12.98	11.36	10.78	145101-05-06.00
	Mini 75Ω SMB Crimp Plug to Mini 75Ω SMB Crimp Plug, Length: 12.00”	179	Gold	Crimp	Crimp	ACX1728-ND	13.58	11.89	11.28	145101-05-12.00
	Mini 75Ω SMB Crimp Plug to Mini 75Ω SMB Crimp Plug, Length: 24.00”	179	Gold	Crimp	Crimp	ACX1729-ND	14.90	13.04	12.37	145101-05-24.00
	Mini 75Ω SMB Crimp Plug to Mini 75Ω SMB Crimp Plug, Length: 36.00”	179	Gold	Crimp	Crimp	ACX1730-ND	13.69	12.52	11.68	145101-05-36.00
	SMB Crimp Plug to SMB Crimp Plug, Length: 6.00”	316	Gold	Crimp	Crimp	ACX1731-ND	10.06	8.81	8.35	145101-01-06.00
	SMB Crimp Plug to SMB Crimp Plug, Length: 12.00”	316	Gold	Crimp	Crimp	ACX1732-ND	10.70	9.37	8.89	145101-01-12.00
	SMB Crimp Plug to SMB Crimp Plug, Length: 24.00”	316	Gold	Crimp	Crimp	ACX1733-ND	12.12	10.61	10.06	145101-01-24.00
	SMB Crimp Plug to SMB Crimp Plug, Length: 36.00”	316	Gold	Crimp	Crimp	ACX1734-ND	12.80	11.20	10.63	145101-01-36.00
70	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 6.00”	178	Gold	Crimp	Crimp	ACX1735-ND	12.54	10.98	10.41	145103-08-06.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 12.00”	178	Gold	Crimp	Crimp	ACX1736-ND	13.14	11.50	10.91	145103-08-12.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 24.00”	178	Gold	Crimp	Crimp	ACX1737-ND	14.46	12.66	12.01	145103-08-24.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 36.00”	178	Gold	Crimp	Crimp	ACX1738-ND	13.31	12.18	11.36	145103-08-36.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 6.00”	316	Gold	Crimp	Crimp	ACX1739-ND	11.22	9.76	8.79	145103-01-06.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 12.00”	316	Gold	Crimp	Crimp	ACX1740-ND	10.40	9.10	8.64	145103-01-12.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 24.00”	316	Gold	Crimp	Crimp	ACX1741-ND	11.82	10.35	9.82	145103-01-24.00
	SMB Crimp Plug to SMB Right Angle Crimp Plug, Length: 36.00”	316	Gold	Crimp	Crimp	ACX1742-ND	13.08	11.45	10.86	145103-01-36.00
71	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 6.00”	178	Gold	Crimp	Crimp	ACX1743-ND	13.82	12.10	11.48	145104-08-06.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 12.00”	178	Gold	Crimp	Crimp	ACX1744-ND	14.42	12.62	11.97	145104-08-12.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 24.00”	178	Gold	Crimp	Crimp	ACX1745-ND	13.38	12.24	11.42	145104-08-24.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 36.00”	178	Gold	Crimp	Crimp	ACX1746-ND	14.40	13.18	12.29	145104-08-36.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 6.00”	316	Gold	Crimp	Crimp	ACX1747-ND	10.88	9.46	8.52	145104-01-06.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 12.00”	316	Gold	Crimp	Crimp	ACX1748-ND	10.10	8.84	8.39	145104-01-12.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 24.00”	316	Gold	Crimp	Crimp	ACX1749-ND	11.50	10.07	9.55	145104-01-24.00
	SMB Right Angle Crimp Plug to SMB Right Angle Crimp Plug, Length: 36.00”	316	Gold	Crimp	Crimp	ACX1750-ND	12.78	11.19	10.61	145104-01-36.00

Fig. 1
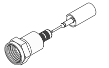

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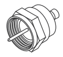

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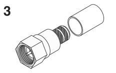

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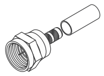

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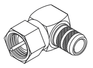

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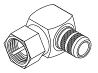

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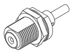

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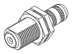

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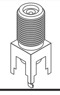

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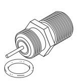

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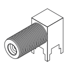

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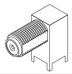

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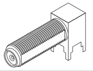

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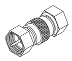

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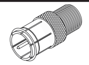

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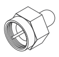

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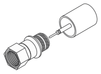

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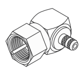

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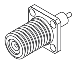

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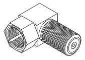

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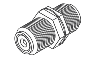

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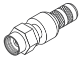

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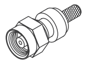

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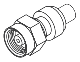

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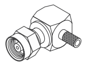

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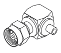

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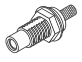

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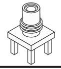

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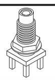

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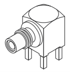

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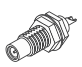

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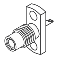

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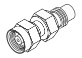

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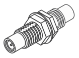

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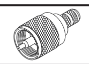

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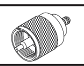

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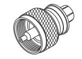

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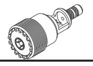

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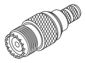

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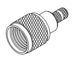

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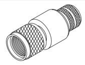

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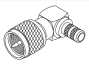

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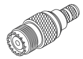

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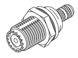

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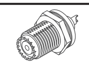

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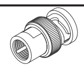

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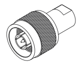

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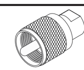

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
F Connectors											
1	Plug, Straight	58, 58C	Gold	Nickel	Crimp	Solder	ACX1454-ND	3.39	2.64	2.34	222197
1	Plug, Straight	59, B9100	Gold	Nickel	Crimp	Crimp	ACX1455-ND	2.57	1.98	1.78	222119
2	Plug, Straight	179	Tin-Lead	Bright Tin	Crimp	Crimp	ACX1456-ND	1.82	1.40	1.26	222113
2	Plug, Straight	316, 174, 188A	Bright Tin	Tin-Lead	Crimp	Crimp	ACX1457-ND	7.02	5.67	5.13	222184
3	Plug, Straight	6	Gold	Nickel	Crimp	Crimp	ACX1458-ND	3.09	2.38	2.14	222123
4	Plug, Straight	B8218	Gold	Nickel	Crimp	Crimp	ACX1459-ND	2.57	1.98	1.78	222126
5	Plug, Right Angle	59	Gold	Nickel	Crimp	Crimp	ACX1460-ND	4.23	3.29	2.92	222153
6	Plug, Right Angle	6	Gold	Nickel	Crimp	Crimp	ACX1461-ND	4.23	3.29	2.92	222164
7	Bulkhead Jack	179	Bright Tin	Bright Tin	Crimp	Solder	ACX1462-ND†	4.50	3.49	3.10	222114-10
8	Bulkhead Jack	6	Gold	Nickel	Crimp	Crimp	ACX1464-ND	4.50	3.49	3.10	222161
9	PC Mount Receptacle	—	Tin	Tin	Crimp	Solder	ACX1465-ND	2.21	1.70	1.53	222141
10	Receptacle, Straight - Ext. Contact	—	Bright Tin	Nickel	Crimp	Solder	ACX1466-ND	1.44	1.05	.95	222144
11	PC Mount Receptacle, R/A	—	Matte Tin	Nickel	Crimp	Solder	ACX1467-ND	3.36	2.61	2.32	222131
12	PC Mount Recept., R/A (High Performance)	—	Gold	Bright Tin	Crimp	Solder	ACX1468-ND	6.87	5.34	4.74	222180
13	PCS Receptacle, R/A	—	Bright Tin	Nickel	Crimp	Solder	ACX1469-ND	2.96	2.30	2.04	222128-10
14	Plug-Plug, Adapter	—	Nickel	Nickel	—	—	ACX1470-ND	2.90	2.25	2.00	222156
15	Jack to Push-On Plug Adapter	—	Bright Tin	Nickel	—	—	ACX1471-ND	1.89	1.45	1.31	222157
16	Plug Terminator	—	Tin-Lead	Nickel	—	—	ACX1473-ND	1.14	.83	.75	222154
17	Plug, Straight	11	Gold	Nickel	Crimp	Crimp	ACX1541-ND	6.15	4.77	4.24	222175
17	Plug, Straight	11	Gold	Nickel	Crimp	Crimp	ACX1542-ND	9.80	8.52	7.67	222195
18	Bulkhead Jack	179 Double Braid	Bright Tin	Tin-Lead	Crimp	Crimp	ACX1463-ND	4.26	3.31	2.94	222167-10
19	Panel Receptacle, Exp. Teflon	—	Nickel	Nickel	—	Solder	ACX1545-ND	7.22	5.61	4.98	222146
20	Plug-Jack, R/A Adapter	—	Nickel/Brt. Tin	Nickel	—	—	ACX1546-ND	2.28	1.75	1.58	222F-90
21	Jack-Jack, Bulkhead Adapter	—	Nickel/Brt. Tin	Nickel	—	—	ACX1566-ND	10.60	9.28	8.80	222121
—	Plug Cap with Chain	—	—	Nickel	—	—	ACX1472-ND	3.05	2.37	2.10	222145
SMC Connectors											
22	Plug, Straight	58	Gold	Gold	Crimp	Solder	ACX1501-ND	7.51	6.07	5.50	152134
23	Plug, Straight	174, 188A, 316	Gold	Gold	Crimp	Solder	ACX1502-ND	8.40	6.79	6.14	152101
24	Direct Solder Plug	.085, .086 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1503-ND	7.75	6.26	5.67	152135
25	Plug, Right Angle	174, 188A, 316, B7805A	Gold	Gold	Crimp	Solder	ACX1504-ND	8.53	6.89	6.24	152107
26	Direct Solder Plug, Right Angle	.085, .086 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1505-ND	9.80	8.52	7.67	152138
27	Bulkhead Crimp Jack	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1506-ND	6.84	5.53	5.00	152105
28	PC Mount Jack	—	Gold	Nickel	Solder	Solder	ACX1507-ND	4.00	3.11	2.76	152119
29	PC Mount Bulkhead Receptacle	—	Gold	Gold	Solder	Solder	ACX1508-ND	7.98	6.45	5.84	152140
30	PC Mount Jack, Right Angle	—	Gold	Gold	Solder	Solder	ACX1509-ND	7.36	5.95	5.38	152123
31	Bulkhead Receptacle Jack	—	Gold	Gold	Crimp	Solder	ACX1510-ND	4.64	3.60	3.20	152127
32	Panel Mount Receptacle Jack	—	Gold	Gold	Crimp	Solder	ACX1511-ND	12.48	10.92	10.36	152131
33	Plug to Jack Adapter	—	Gold	Gold	—	—	ACX1512-ND	8.12	7.06	6.36	152141
34	Bulkhead Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1513-ND	14.88	13.02	12.36	152145
UHF											
35	Crimp Plug, Straight	59	Gold	Nickel	Crimp	Crimp	ACX1514-ND	9.75	8.48	7.64	182101
36	Plug, Straight	174, 187A, 316	Gold	Nickel	Crimp	Crimp	ACX1515-ND	11.30	9.89	9.38	182330
36	Plug, Straight	B8214, B9913, B9914, LMR400	Gold	Nickel	Crimp	Crimp	ACX1516-ND	5.08	3.94	3.50	182130
37	FCP Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Silver	Nickel	—	—	ACX1517-ND	4.90	3.81	3.38	182103
38	Jack, Straight	58C, 58	Gold	NIckel	Crimp	Solder	ACX1518-ND	6.47	5.02	4.46	182306
38	Jack, Straight	8	Gold	Nickel	Crimp	Solder	ACX1519-ND	14.47	13.24	12.34	182335
Mini-UHF											
39	Crimp Jack, Straight	58	Gold	Nickel	Crimp	Crimp	ACX1520-ND	4.15	3.22	2.86	182112
40	Plug, Straight	LMR200	Gold	Nickel	Crimp	Crimp	ACX1521-ND	6.84	5.31	4.72	182314
40	Crimp Plug, Straight	174, 188A, 316	Gold	Nickel	Crimp	Crimp	ACX1522-ND	3.02	2.34	2.08	182118
40	Plug, Straight	316 Double Braid	Gold	Nickel	Crimp	Crimp	ACX1523-ND	11.00	9.63	9.13	182126
40	Crimp Plug, Straight	8/X, LMR240	Gold	Nickel	Crimp	Crimp	ACX1524-ND	3.22	2.48	2.23	182302
40	Crimp Plug, Straight	178B, 196A, 196	Gold	Nickel	Crimp	Crimp	ACX1525-ND	7.15	5.78	5.23	182316
41	Plug, Straight	8, LMR400	Gold	Nickel	Crimp	Solder	ACX1526-ND	7.18	5.80	5.25	182337
42	Crimp Plug, Right Angle	58, 58C	Gold	Nickel	Crimp	Crimp	ACX1527-ND	6.93	5.38	4.78	182323

† With Nut and Washer

(Continued)

Fig. 49
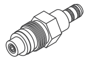
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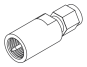
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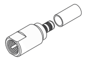
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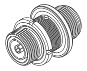
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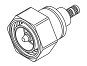
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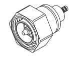
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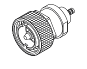
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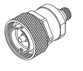
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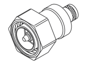
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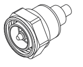
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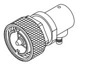
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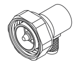
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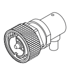
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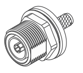
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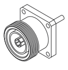
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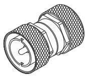
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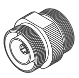
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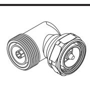
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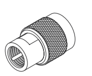
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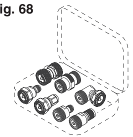

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
42	Crimp Plug, Right Angle	55, 223, 142, 400	Gold	Nickel	Crimp	Crimp	ACX1528-ND	6.82	5.29	4.70	182324
43	Crimp Jack, Straight	55, 142, 223, 400	Silver	Nickel	Crimp	Crimp	ACX1529-ND	3.36	2.61	2.32	182309
44	Bulkhead Crimp Jack, Straight	58	Silver	Nickel	Crimp	Crimp	ACX1530-ND	5.22	4.05	3.60	182318
44	Bulkhead Jack, Straight	174, 188, 316	Gold	Nickel	Crimp	Crimp	ACX1531-ND	8.12	7.06	6.36	182317
45	Bulkhead Receptacle Jack, Straight	—	Gold	Nickel	Solder	Crimp	ACX1532-ND	3.92	3.04	2.70	182114
	FME										
46	Nipple Plug to BNC Plug	—	Gold	Nickel	—	—	ACX1536-ND	3.02	2.34	2.08	192104
47	N Plug to FME Plug	—	Silver	Nickel	—	—	ACX1538-ND	6.53	5.28	4.77	192109
48	FME Plug to UHF Plug Adapter	—	Gold	Nickel	—	—	ACX1539-ND	4.58	3.56	3.16	192110
49	Rotating Nipple	174, 188A, 316, B7805A	Gold	Nickel	Crimp	Crimp	ACX1533-ND	2.99	2.30	2.07	192111
49	Rotating Nipple	58	Gold	Nickel	Crimp	Crimp	ACX1534-ND	2.28	1.75	1.58	192102
50	Nipple Plug to SMA Plug	—	Gold	Nickel	—	—	ACX1540-ND	6.38	4.95	4.40	192113
51	Plug, Straight	58C	Gold	Nickel	Crimp	Crimp	ACX1535-ND	3.80	2.95	2.62	192100
	7/16										
52	Jack-Jack Bulkhead, Straight	—	Silver	Nexcote	—	—	ACX1547-ND	49.41	45.88	45.00	272174
53	Plug, Straight	58, 58C	Silver	Nexcote	Crimp	Crimp	ACX1548-ND	20.84	19.45	18.76	272103
54	Plug, Straight	8/X, LMR240	Silver	Nexcote	Crimp	—	ACX1549-ND	21.89	20.43	19.70	272187
55	Plug, Straight	142A, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1550-ND	20.84	19.45	18.76	272104
56	Plug, Straight	8, 213, 393	Silver	Silver	—	—	ACX1551-ND	37.80	35.10	34.43	272105
57	Plug, Straight	LMR400, B9913	Silver	Nexcote	Crimp	Crimp	ACX1552-ND	36.14	33.73	32.53	272107
58	Plug, Straight	.250 Semi-Rigid	Silver	Silver	Crimp	Crimp	ACX1553-ND	34.67	32.36	31.20	272110
59	Plug, Right Angle	58, LMR195	Silver	Nexcote	Crimp	—	ACX1554-ND	32.70	30.52	29.43	272111
60	Plug, Right Angle	LMR400	Silver	Nexcote	Crimp	—	ACX1555-ND	29.81	27.82	26.83	272115
61	Plug, Right Angle	.250 Semi-Rigid	Silver	Silver	Crimp	Crimp	ACX1556-ND	30.02	28.02	27.02	272118
62	Bulkhead Jack, Straight	LMR240, 8X Double "D" Flats	Silver	Nexcote	Crimp	Crimp	ACX1557-ND	20.45	19.09	18.41	272185-10
62	Bulkhead Jack, Straight	LMR400, B9913 Double "D" Flats	Silver	Nexcote	Crimp	Crimp	ACX1558-ND	30.68	28.63	27.61	272155-10
62	Bulkhead Jack, Straight	.250 Semi-Rigid	Silver	Silver	Crimp	Solder	ACX1560-ND	18.59	17.35	16.73	272159-10
63	Receptacle Jack Panel, 4 Hole Flange	—	Gold	Nexcote	Solder	Solder	ACX1561-ND	19.08	17.81	17.18	272190
64	Plug to Plug Adapter	—	Silver	Silver	—	—	ACX1562-ND	35.10	32.60	31.97	272134
65	Jack to Jack Adapter	—	Silver	Silver	—	—	ACX1563-ND	33.84	31.59	30.46	272135
66	Right Angle Plug to Jack Adapter	—	Silver	Silver	—	—	ACX1564-ND	56.17	52.16	51.16	272150
67	Nipple Plug to TNC Plug	—	Gold	Nickel	—	—	ACX1537-ND	2.99	2.32	2.06	192105
68	7/16 and N Type Adapter Kit	—	Silver	Nexcote	—	—	ACX1565-ND	299.25	281.25	—	312100

† With Nut and Washer

Fig. 1
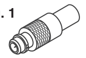
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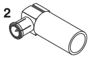
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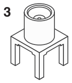
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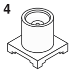
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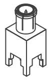
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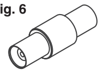
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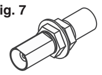
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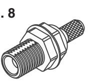
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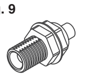
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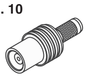
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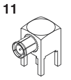
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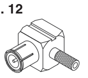
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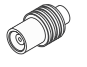
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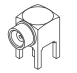
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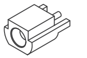
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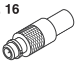
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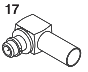
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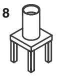

MCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
1	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1253-ND	6.06	4.71	4.18	252180
1	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1254-ND	5.92	4.59	4.08	252103
1	Plug, Straight	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1255-ND	6.50	5.04	4.48	252121
1	Plug, Straight	178, 196	Gold	Gold	Crimp	Crimp	ACX1256-ND	7.98	6.45	5.84	252127
1	Direct Solder Plug, Straight	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1257-ND	5.60	4.35	3.86	252107
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1258-ND	7.85	6.35	5.74	252115
2	Plug, Right Angle	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1259-ND	7.02	5.67	5.13	252102
2	Plug, Right Angle	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1260-ND	7.02	5.67	5.13	252119
2	Plug, Right Angle	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1261-ND	6.71	5.42	4.91	252109
3	PCB Receptacle Jack	—	Gold	Gold	—	—	ACX1262-ND	6.73	5.22	4.64	252105
4	PCB Receptacle, Surface Mount	—	Gold	Gold	—	—	ACX1263-ND	6.44	5.00	4.44	252117
5	PCB Receptacle Plug	—	Gold	Gold	—	—	ACX1264-ND	6.53	5.28	4.77	252153
6	Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1265-ND	12.60	11.03	10.46	252169
7	Bulkhead, Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1266-ND	8.76	7.08	6.41	252171
8	Bulkhead Crimp Jack	174, 188A, 316	Gold	Gold	Crimp	Solder	ACX1450-ND	6.32	4.91	4.36	252145
9	Bulkhead Direct Solder Jack	.085, .086 Semi-Rigid	Gold	Gold	—	Solder	ACX1451-ND	7.15	5.78	5.23	252163
10	Crimp Jack	174, 188A, 316	Gold	Gold	Crimp	Crimp	ACX1452-ND	6.35	4.93	4.38	252139
11	PCB Receptacle Plug, R/A	174, 188A, 316	Gold	Gold	Crimp	Solder	ACX1453-ND	8.40	6.79	6.14	252155
12	Crimp Plug, Right Angle	178, 196	Gold	Gold	Crimp	Solder	ACX1492-ND	7.75	6.26	5.67	252135
13	Direct Solder Jack, Straight	.085, .086 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1493-ND	7.36	5.95	5.38	252131
14	PCB Receptacle Plug, R/A	—	Gold	Gold	Crimp	Solder	ACX1494-ND	6.47	5.02	4.46	252129
15	PCB Edgecard Jack	—	Gold	Gold	Crimp	Solder	ACX1495-ND	6.66	5.38	4.87	252151

MMCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
16	Semi-Rigid Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1267-ND	5.25	4.08	3.62	262112
16	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1268-ND	4.87	3.78	3.36	262101
16	Plug, Straight	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1269-ND	4.96	3.85	3.42	262110
16	Plug, Straight	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1270-ND	4.87	3.78	3.36	262100
17	Right Angle, Semi-Rigid Plug	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1271-ND	6.50	5.25	4.75	262113
17	Right Angle, Plug	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1272-ND	6.21	4.82	4.28	262103
17	Right Angle, Plug	316, U-Double Braided	Gold	Gold	Crimp	Crimp	ACX1273-ND	6.21	4.82	4.28	262111
17	Right Angle, Plug	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1274-ND	6.21	4.82	4.28	262102
18	PCB Jack	—	Gold	Gold	—	—	ACX1275-ND	7.10	5.74	5.19	262104
19	Edgecard Mount Plug	—	Gold	Gold	—	—	ACX1276-ND	6.21	4.82	4.28	262106
20	Edgecard, Jack	—	Gold	Gold	—	—	ACX1277-ND	5.57	4.32	3.84	262107
21	Crimp Jack, Straight	174, 188A, 316	Gold	Gold	Crimp	Solder	ACX1496-ND	6.47	5.02	4.46	262118
21	Crimp Jack, Straight	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1497-ND	6.32	4.91	4.36	262117
22	Jack-Jack Adapter	—	Gold	Gold	—	—	ACX1498-ND	10.10	8.78	7.91	262129
23	Bulkhead Jack-Jack Adapter	—	Gold	Gold	—	—	ACX1499-ND	8.87	7.17	6.48	262130
24	Plug-Jack Adapter	—	Gold	Gold	—	—	ACX1500-ND	8.03	6.49	5.88	262136

(Continued)

RF Connectors *(Cont.)*

N and Reverse Polarized N Connectors

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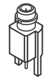
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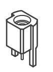
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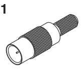
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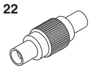
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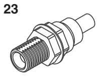
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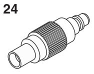
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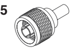
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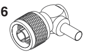
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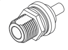
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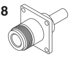
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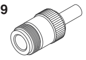
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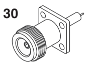
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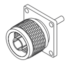
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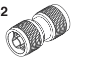
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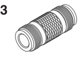
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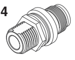
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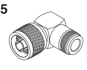
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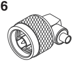
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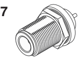
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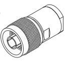
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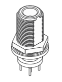
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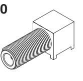
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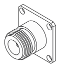
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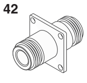
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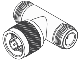
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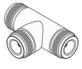
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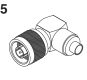
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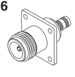
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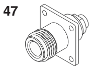
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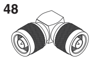
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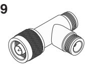
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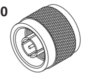
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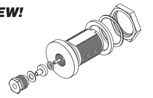

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
25	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1118-ND	6.55	5.09	4.52	172100
25	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1119-ND†	6.84	5.53	5.00	172100RP
25	Plug, Straight	55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1120-ND	6.53	5.07	4.50	172142
25	Plug, Straight	LMR200™, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1121-ND	6.24	4.84	4.30	172214
25	Plug, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1122-ND†	12.94	11.84	11.04	172214RP
25	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1123-ND	7.83	6.33	5.72	172128
25	Plug, Straight	316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1124-ND	8.42	6.81	6.16	172171
25	Plug, Straight	8, 8A, 213, 393	Gold	Nexcote	Crimp	Crimp	ACX1125-ND	7.08	5.49	4.88	172102
25	Plug, Straight	214	Gold	Nexcote	Crimp	Crimp	ACX1126-ND	7.02	5.45	4.84	172166
25	Plug, Straight	8X, LMR240™, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1127-ND	7.08	5.49	4.88	172135
25	Plug, Straight	8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1128-ND†	8.79	7.10	6.43	172135RP
25	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1129-ND	6.53	5.28	4.77	172102H243
25	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1130-ND†	6.43	5.20	4.71	172102H243RP
25	Plug, Straight	LMR600™	Gold	Nexcote	Crimp	Crimp	ACX1131-ND	10.94	9.58	9.09	172206
25	Direct Solder Plug	.141 Semi-Rigid, 402	Gold	Nexcote	Solder	Solder	ACX1132-ND	7.10	5.74	5.19	172133
25	Direct Solder Plug	.085 Semi-Rigid, 405	Gold	Nexcote	Solder	Solder	ACX1133-ND	6.41	5.18	4.69	172211
25	Direct Solder Plug	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1134-ND	7.33	5.93	5.36	172139
25	Crimp Plug	223, 400	Gold	Nexcote	Crimp	Crimp	ACX1484-ND†	12.60	11.03	10.46	172142RP
26	Right Angle, Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1135-ND	11.20	9.80	9.30	172177
26	Right Angle, Plug	55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1136-ND	10.42	9.06	8.16	172178
26	Right Angle, Plug	174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1137-ND	10.86	9.44	8.50	172180
26	Right Angle, Plug	8, 8A, 213, 393, B9913, MR400	Gold	Nexcote	Crimp	Crimp	ACX1138-ND	10.60	9.28	8.80	172176
26	Right Angle, Plug	214	Gold	Nexcote	Crimp	Crimp	ACX1139-ND	11.27	9.80	8.82	172167
26	Right Angle, Plug	8X, LMR240, B7808A	Gold	Nexcote	Crimp	Solder	ACX1658-ND ***NEW!***	10.19	8.86	7.98	172219
27	Bulkhead, Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1140-ND	8.92	7.21	6.52	172106
27	Bulkhead, Jack	55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1142-ND	8.29	6.70	6.07	172132
27	Bulkhead, Jack	174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1143-ND	8.87	7.17	6.48	172129
27	Bulkhead, Jack	174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1144-ND†	7.30	5.90	5.34	172129RP
27	Bulkhead, Jack	316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1145-ND	8.87	7.17	6.48	172165
27	Bulkhead, Jack	8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1146-ND	8.37	6.77	6.12	172149
27	Bulkhead, Direct Solder Jack	.141 Semi-Rigid, 402	Gold	Nexcote	Solder	Solder	ACX1147-ND	9.06	7.88	7.10	172137
27	Bulkhead, Direct Solder Jack	.085 Semi-Rigid, 405	Gold	Nexcote	Solder	Solder	ACX1148-ND	8.99	7.82	7.04	172138
27	Bulkhead, Direct Solder Jack	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1149-ND	9.15	7.96	7.17	172153
28	Panel Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1150-ND	8.94	7.23	6.54	172208
28	Panel Jack	55, 142A , 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1151-ND	9.91	8.62	7.76	172175
28	Panel Jack	174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1152-ND	9.09	7.90	7.11	172173
28	Panel Direct Solder Jack	.141 Semi-Rigid, 402	Gold	Nexcote	Solder	Solder	ACX1153-ND	9.34	8.12	7.31	172170
28	Panel Direct Solder Jack	.085 Semi-Rigid, 405	Gold	Nexcote	Solder	Solder	ACX1154-ND	9.32	8.10	7.29	172169
29	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1155-ND	6.38	4.95	4.40	172103
29	Jack, Straight, 50Ω, Cap. Con.	55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1157-ND	6.38	4.95	4.40	172147
29	Jack, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1158-ND	8.48	6.85	6.20	172216
29	Jack, Straight	8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1160-ND	6.24	4.84	4.30	172148
29	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1161-ND	6.55	5.09	4.52	172203
29	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1162-ND†	5.48	4.26	3.78	172203RP
30	Panel Receptacle Jack, Ext. Tef.	—	Gold	Nexcote	—	—	ACX1165-ND	7.08	5.49	4.88	172117
30	Panel Receptacle Jack	—	Gold	Nexcote	—	—	ACX1167-ND	7.05	5.70	5.15	172119
31	Panel Receptacle Plug	—	Gold	Nexcote	—	—	ACX1166-ND	9.05	7.31	6.62	172118
32	Plug to Plug Adapter	—	Gold	Nexcote	—	—	ACX1168-ND	8.42	7.32	6.59	172122
33	Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1169-ND	6.79	5.49	4.96	172123
34	Bulkhead, Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1170-ND	8.68	7.02	6.35	172124
35	Jack to Plug Adapter	—	Gold	Nexcote	—	—	ACX1171-ND	10.42	9.12	8.65	172126
36	Direct Solder Plug, Right Angle	.141 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1438-ND	10.05	8.74	7.87	172236
36	Direct Solder Plug, Right Angle	.085, .086 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1439-ND	9.91	8.62	7.76	172235
37	Bulkhead Crimp Jack	178B, 196A	Gold	Nexcote	Crimp	Crimp	ACX1440-ND	8.42	6.81	6.16	172313
38	Straight Solder Plug	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Solder	ACX1441-ND	8.63	6.98	6.31	172113H243
39	Bulkhead PCB Receptacle Jack	—	Gold	Nickel	Crimp	Solder	ACX1442-ND	12.66	11.08	10.51	172243
40	Right Angle Jack	—	Gold	Brass	Crimp	Solder	ACX1443-ND	13.18	11.54	10.94	172234
41	Panel Receptacle, Tab Post	—	Gold	Brass	Crimp	Solder	ACX1444-ND	8.32	6.72	6.08	172195
42	"T" Adapter, Jack-Jack	—	Gold	Nickel	—	—	ACX1445-ND	10.60	9.22	8.30	172278
43	"T" Adapter, Jack-Plug-Jack	—	Gold	Nickel	—	—	ACX1446-ND	11.78	10.31	9.78	172125
44	"T" Adapter, Jack-Jack-Jack	—	Gold	Nexcote	—	—	ACX1447-ND	14.52	12.71	12.06	172127
45	Direct Solder Plug, Right Angle	.250 Semi-Rigid	Gold	Nexcote	Crimp	Solder	ACX1481-ND	10.62	9.30	8.82	172266
46	Crimp Jack	8X, LMR240	Gold	Nexcote	Crimp	Crimp	ACX1482-ND	8.69	7.56	6.81	172319
47	Direct Solder Jack	.250 Semi-Rigid	Gold	Nickel	Solder	Crimp	ACX1483-ND	8.51	7.40	6.66	172300
48	Right Angle Adapter, Plug-Plug	—	Gold	Nexcote	—	—	ACX1485-ND	21.18	19.77	19.07	172261
49	"T" Adapter, Jack-Jack-Plug	—	Gold	Nexcote	—	—	ACX1486-ND	14.12	12.36	11.72	172233
50	Shorting Plug	—	Gold	Nexcote	—	—	ACX1487-ND	8.40	7.30	6.57	172317
51	Bulkhead Clamp Jack	174, 188A, 316, B7805A	Gold	Nexcote	Crimp	Solder	ACX1656-ND ***NEW!***	9.29	8.08	7.28	172143
—	Plug Cap with Chain	—	—	Nexcote	—	—	ACX1172-ND	3.22	2.50	2.22	202102
—	Terminator Plug with Chain	—	Gold	Nexcote	—	—	ACX1173-ND	8.97	7.25	6.56	202109-10
—	Terminator Jack	—	Gold	Nexcote	—	—	ACX1174-ND	10.63	9.24	8.32	202110
—	Plug Cap, No Chain	—	—	Nickel	—	—	ACX1448-ND	2.83	2.18	1.96	202102-10
—	Jack Cap with Chain	—	—	Nickel	—	—	ACX1449-ND	3.86	3.00	2.66	172306

† Reverse Polarity

TNC and Reverse Polarized TNC Connectors

Fig. 1
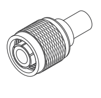
Fig. 2
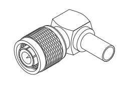
Fig. 3
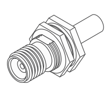
Fig. 4
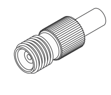

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Amphenol Part No.
1	Plug, Straight-Captive Contact	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1070-ND	2.83	2.18	1.96	122108
1	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1071-ND†	3.45	2.68	2.38	122108RP
1	Plug, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1072-ND	2.83	2.18	1.96	122372
1	Plug, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1073-ND†	5.89	4.57	4.06	122372RP
1	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1074-ND	2.86	2.20	1.98	122410
1	Plug, Straight	59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1075-ND	4.90	3.81	3.38	122111
1	Plug, Straight, 75Ω	59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1076-ND	2.86	2.20	1.98	122426
1	Plug, Straight	8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1077-ND	7.10	5.74	5.19	122394
1	Plug, Straight	214	Gold	Nickel	Crimp	Crimp	ACX1078-ND	7.67	6.20	5.61	122398
1	Plug, Straight	8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1079-ND	3.48	2.70	2.40	122408
1	Plug, Straight	8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1080-ND†	5.19	4.03	3.58	122408RP

† Reverse Polarity

(Continued)

RF Connectors

TNC and Reverse Polarized TNC Connectors *(Cont.)*

Fig. 5

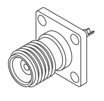

Fig. 6

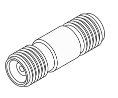

Fig. 7

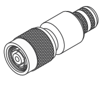

Fig. 8

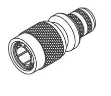

Fig. 9

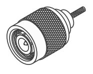

Fig. 10

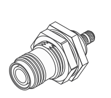

Fig. 11

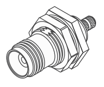

Fig. 12

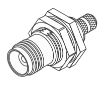

Fig. 13

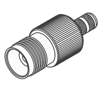

Fig. 14

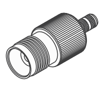

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol Part No.
					Outer	Inner		1	25	50	
1	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1081-ND	7.93	6.41	5.80	122393
1	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1082-ND†	7.85	6.35	5.74	122393RP
1	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1083-ND	3.22	2.50	2.22	122116
1	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1085-ND†	4.21	3.27	2.90	122116RP
1	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1084-ND	3.28	2.55	2.26	122375
1	Direct Solder Plug	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1087-ND	4.93	3.83	3.40	122386
2	Right Angle Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1090-ND	5.54	4.30	3.82	122140
2	Right Angle Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1091-ND†	5.77	4.48	3.98	122140RP
2	Right Angle Plug	55, 142A, 223, 400	Gold	Nickel	Crimp	Solder	ACX1092-ND	5.77	4.48	3.98	122430
2	Right Angle Plug	8X, LMR240™, B7808A	Gold	Nickel	Crimp	Solder	ACX1093-ND	7.83	6.33	5.72	122414
2	Right Angle Plug	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Solder	ACX1094-ND	7.38	5.97	5.40	122416
2	Right Angle Plug	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Solder	ACX1095-ND	6.00	4.66	4.14	122148
3	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1096-ND	5.28	4.10	3.64	122160
3	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1097-ND†	6.29	4.89	4.34	122160RP
3	Bulkhead Jack	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1098-ND	5.28	4.10	3.64	122192
3	Bulkhead Jack	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1099-ND	5.13	3.99	3.54	122358
3	Bulkhead Jack	178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1100-ND	6.06	4.71	4.18	122370
3	Bulkhead Jack	178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1101-ND†	6.63	5.36	4.85	122370RP
3	Bulkhead, Direct Solder, Jack	.141 Semi-Rigid, 402	Gold	Gold	Solder	Solder	ACX1102-ND	5.54	4.30	3.82	122401
3	Bulkhead, Solder Jack	.085 Semi-Rigid, 405	Gold	Gold	Solder	Solder	ACX1103-ND	5.77	4.48	3.98	122400
4	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1104-ND	3.22	2.50	2.22	122122
4	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1105-ND†	3.86	3.00	2.66	122122RP
4	Jack, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1106-ND	2.83	2.18	1.96	122373
4	Jack, Straight	8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1108-ND†	3.86	3.00	2.66	122409RP
4	Jack, Straight	8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1109-ND	5.61	4.53	4.10	122482
4	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1110-ND	6.73	5.44	4.93	122392
4	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1111-ND†	6.58	5.11	4.54	122392RP
4	Bulkhead, Receptacle, Solder Pot	—	Gold	Nickel	—	—	ACX1112-ND	3.12	2.40	2.16	122332
5	Panel Receptacle, Solder Pot	—	Gold	Nickel	—	—	ACX1113-ND	5.13	3.99	3.54	122248
6	Jack to Jack Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1114-ND	3.42	2.66	2.36	122348
7	Plug, Straight	8, 213	Gold	Nickel	Crimp	Crimp	ACX1409-ND†	7.64	6.18	5.59	122394RP
7	Plug, Straight	B8213, 9230, 9292, 9011	Gold	Nickel	Crimp	Crimp	ACX1410-ND	10.12	8.80	7.92	122499
8	Plug, Straight	B9292, 8213	Gold	Nickel	Crimp	Crimp	ACX1411-ND	5.34	4.14	3.68	122470
9	Crimp Plug, Straight	178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1412-ND	3.45	2.68	2.38	122429
10	Bulkhead Jack	174, 188A, 316	Gold	Nickel	Crimp	Crimp	ACX1413-ND†	6.58	5.32	4.81	122192RP
11	Bulkhead Crimp Jack	142, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1414-ND	5.31	4.12	3.66	122363
12	Bulkhead Jack	LMR240	Gold	Nickel	Crimp	Crimp	ACX1415-ND	6.96	5.40	4.80	122415
13	Jack, Straight	LMR200	Gold	Nickel	Crimp	Crimp	ACX1416-ND	7.25	5.86	5.31	122412
14	Jack, Straight	174, 316	Gold	Nickel	Crimp	Crimp	ACX1417-ND	3.36	2.61	2.32	122138
—	Plug to Plug Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1115-ND	6.12	4.75	4.22	122350
—	Plug Cap with Chain	—	—	Nickel	—	—	ACX1116-ND	3.22	2.50	2.22	202101
—	Plug Termination, 50Ω	—	Gold	Nickel	—	—	ACX1117-ND	4.90	3.81	3.38	202117
—	Jack Cap with Chain	—	—	Nickel	—	—	ACX1418-ND	4.35	3.38	3.00	122486

† Reverse Polarity

Between Series Adapters

ACX1339-ND Shown

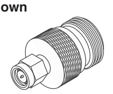

ACX1355-ND Shown

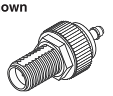

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each			Amphenol Part No.
				1	25	50	
SMA Plug to BNC Jack	Gold	Nickel	ACX1322-ND	6.58	5.32	4.81	242102
SMA Jack to BNC Plug	Gold	Gold	ACX1323-ND	11.27	9.80	8.82	242103
SMA Plug to BNC Plug	Gold	Nickel	ACX1324-ND	14.70	12.87	12.21	242104
SMA Jack to BNC Jack	Gold	Nickel	ACX1325-ND	10.14	8.82	7.94	242123
SMA Jack to BNC Bulkhead Jack	Gold	Nickel	ACX1326-ND	14.70	12.87	12.21	242181
TNC Jack to SMA Plug	Gold	Nickel	ACX1327-ND	11.27	9.80	8.82	242124
SMA Jack to TNC Plug	Gold	Nickel	ACX1328-ND	8.46	7.36	6.63	242105
SMA Jack to TNC R/P Plug	Gold	Gold	ACX1329-ND†	14.70	12.87	12.21	242105RP
SMA Plug to TNC Plug	Gold	Nickel	ACX1330-ND	14.70	12.87	12.21	242106
SMA Jack to TNC Jack	Gold	Nickel	ACX1331-ND	14.70	12.87	12.21	242107
SMA Jack to TNC R/P Jack	Gold	Gold	ACX1332-ND†	14.70	12.87	12.21	242107RP
SMA Jack to TNC Bulkhead Jack	Gold	Nickel	ACX1333-ND	14.70	12.87	12.21	242178
SMA Plug to SMB Jack	Gold	Gold	ACX1334-ND	14.70	12.87	12.21	242144
SMA Jack to SMB Plug	Gold	Gold	ACX1335-ND	14.70	12.87	12.21	242145
SMA Plug to SMB Plug	Gold	Gold	ACX1336-ND	14.70	12.87	12.21	242146
SMA Jack to SMB Jack	Gold	Gold	ACX1337-ND	14.70	12.87	12.21	242147
SMA Plug to N Jack	Gold	Nickel	ACX1339-ND	11.27	9.80	8.82	242112
SMA R/P Plug to N Jack	Gold	Nickel	ACX1340-ND†	11.27	9.80	8.82	242112RP
SMA Jack to N Plug	Gold	Nickel	ACX1341-ND	9.02	7.84	7.06	242113
SMA R/P Jack to N Plug	Gold	Nickel	ACX1342-ND†	14.70	12.87	12.21	242113RP
SMA Plug to N Plug	Gold	Nickel	ACX1343-ND	11.27	9.80	8.82	242114
SMA Jack to N Jack	Gold	Nickel	ACX1344-ND	11.27	9.80	8.82	242115
SMA Jack to N Bulkhead Jack	Gold	Nickel	ACX1345-ND	10.21	8.88	8.00	242125
SMA Jack to N Panel Jack	Gold	Nickel	ACX1346-ND	11.27	9.80	8.82	242163
SMA Plug to MCX Jack	Gold	Gold	ACX1347-ND	14.70	12.87	12.21	242126
SMA Jack to MCX Plug	Gold	Gold	ACX1348-ND	12.26	10.73	10.18	242127
SMA Plug to MCX Plug	Gold	Gold	ACX1349-ND	16.80	15.37	14.33	242128
SMA Jack to MCX Jack	Gold	Gold	ACX1350-ND	14.70	12.87	12.21	242129
SMA Plug to MMCX Jack	Gold	Gold	ACX1351-ND	14.70	12.87	12.21	242140
SMA Jack to MMCX Plug	Gold	Gold	ACX1352-ND	14.70	12.87	12.21	242141
SMA Plug to MMCX Plug	Gold	Gold	ACX1353-ND	14.70	12.87	12.21	242142
SMA Jack to MMCX Jack	Gold	Gold	ACX1354-ND	14.70	12.87	12.21	242143
SMA Jack to MMCX Bulkhead Plug	Gold	Gold	ACX1355-ND	14.70	12.87	12.21	242193
N Plug to BNC Jack	Gold	Nickel	ACX1356-ND	14.70	12.87	12.21	242121

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each			Amphenol Part No.
				1	25	50	
N Jack to BNC Plug	Gold	Nickel	ACX1357-ND	14.70	12.87	12.21	242101
N Jack to BNC Jack	Gold	Nickel	ACX1358-ND	14.70	12.87	12.21	242100
N Plug to BNC Plug	Gold	Nickel	ACX1359-ND	14.70	12.87	12.21	242122
N Jack to BNC Bulkhead Jack	Gold	Nickel	ACX1360-ND	18.38	17.15	16.54	242162
N Plug to TNC Jack	Gold	Nickel	ACX1361-ND	14.70	12.87	12.21	242130
N Plug to TNC R/P Jack	Gold	Nickel	ACX1362-ND†	14.70	12.87	12.21	242130RP
N Jack to TNC Plug	Gold	Nickel	ACX1363-ND	11.27	9.80	8.82	242131
N Jack to TNC R/P Plug	Gold	Nickel	ACX1364-ND†	14.70	12.87	12.21	242131RP
N Jack to TNC Jack	Gold	Nickel	ACX1365-ND	14.70	12.87	12.21	242132
N Plug to TNC Plug	Gold	Nickel	ACX1367-ND	14.70	12.87	12.21	242133
N Plug to TNC R/P Plug	Gold	Nickel	ACX1368-ND†	14.70	12.87	12.21	242133RP
N Plug to F Jack, Waterproof	Gold	Nickel	ACX1369-ND	11.27	9.80	8.82	242156
N Jack to 7/16 Plug	Silver	Nexcote	ACX1371-ND	36.75	34.30	33.08	242136
N Jack to SMB Jack Panel	Gold	Nickel	ACX1375-ND	16.69	15.27	14.24	242198
BNC Plug to TNC Jack	Gold	Nickel	ACX1377-ND	14.70	12.87	12.21	242148
BNC Jack to TNC Plug	Gold	Nickel	ACX1378-ND	7.67	6.20	5.61	242149
BNC Jack to TNC Jack	Gold	Nickel	ACX1379-ND	14.70	12.87	12.21	242150
BNC Plug to TNC Plug	Gold	Nickel	ACX1380-ND	14.70	12.87	12.21	242151
BNC Plug to F Jack	Gold	Nickel	ACX1381-ND	14.70	12.87	12.21	242154
BNC Plug to SMB Jack	Gold	Nickel	ACX1385-ND	14.70	12.87	12.21	242184
BNC Jack to SMB Plug	Gold	Nickel	ACX1386-ND	11.27	9.80	8.82	242185
BNC Jack to SMB Jack	Gold	Nickel	ACX1387-ND	14.70	12.87	12.21	242186
BNC Plug to SMB Plug	Gold	Nickel	ACX1388-ND	14.70	12.87	12.21	242187
U.FL/AMC Jack to SMA Plug	Gold	Gold	ACX1389-ND	14.70	12.87	12.21	242212
SMA Plug to SMC Jack	Gold	Nickel	ACX1488-ND	14.70	12.87	12.21	242174
SMA Jack to SMC Plug	Gold	Gold	ACX1489-ND	14.70	12.87	12.21	242175
SMA Jack to SMC Jack	Gold	Gold	ACX1490-ND	14.70	12.87	12.21	242176
SMA Plug to SMC Plug	Gold	Gold	ACX1491-ND	14.70	12.87	12.21	242177

† Reverse Polarity

Hand Tools and Die Sets for ACX Connectors

Description	Cable Group	Digi-Key Part No.	Price Each	Amphenol Part No.
Tool Crimp with Dies	RG 55, 58, 59, 62, 141, 142, 223, 303, 400	ACX1393-ND	50.90	47-10070
Tool Crimp with Dies	RG 8, 11, 213, 214, 225, 393, N Series	ACX1653-ND✔	50.88	47-10090
Tool Crimp with Dies	RG 174, 188, 316, 179, 187, 180, 195, 178, 196	ACX1394-ND	50.88	47-10150
Tool Crimp with Dies	RG 8, 213, 214, 393, 58, 141, 223, 142, 400 N Series	ACX1396-ND	58.95	47-10230
Tool Crimp with Dies	RG 58, 174, 188, 316, 179, 187, 142, 141, 223, 400, 55	ACX1398-ND	50.88	47-10120
Tool Crimp with Dies	5 Cavity RG 58, 59N, BNC, TNC, SMA	ACX1399-ND	53.21	47-10180
Tool Crimp with Dies	LMR 400, B9913, 9914, B7810A	ACX1400-ND	50.88	47-10210
Tool Crimp with Dies	LMR 500, 600	ACX1654-ND✔	64.19	47021
Tool Frame	LMR 600	ACX1401-ND	206.15	47-4009-20

✔ ***NEW!***

Amphenol®RF
Global RF Solutions

FAKRA and FAKRA II SMB Connectors

RoHS COMPLIANT

With recent advancements in communications technology and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become indispensable components of the modern automobile. To keep RF interconnection costs low and ensure high levels of electrical and mechanical performance the German and American automotive industries have standardized a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards. Utilizing a standard metal SMB connector embedded within a plastic housing that can be designed with multiple colored codes for easy identification, FAKRA connectors are designed to perform up to 4GHz and meet the particular mechanical and environmental requirements of the automobile industry. **FEATURES: Electrical:** • Impedance: 50Ω • Frequency Range: DC-4GHz • Performance Specification: SAE/USCAR-17 • Insulation Resistance: 1000MΩ minimum • Center Contact Resistance: center contact <20mΩ; outer contact <10mΩ • Dielectric Withstanding Voltage (sea level): >1000VRMS **Mechanical:** • Durability (matings): 100 minimum • Plastic Housing Engagement Force: ≤20 N • Plastic Housing Disengagement Force: ≥25 N • Coding: 13 mechanical and colored codings • Plastic Housing: PBT with 15% Glass Fiber • Secondary Locking Clip: PBT with 15% Glass Fiber • Center Contact (female): Beryllium Copper; (male): Brass • Body: Brass • Barrel: Brass • Retainer Ring: Beryllium Copper • Ferrule: Copper • Insulator: TFE • Center Contact Plating: Gold • Body, Barrel and Ferrule Plating: Nickel. FAKRA connectors incorporate machined components. FAKRA II connector series utilizes die cast as well as stamped and formed components.

Fig. 1

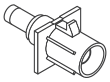

Single Male

Fig. 2

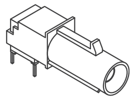

Single Male R/A PCB with Extended Housing

Fig. 3

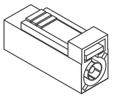

Single Female

Fig. 4

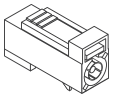

Single Female with Clip Provision at 6 o'clock

Fig. 5

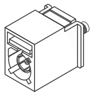

Single Female

Fig. 6

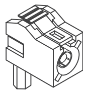

Single R/A Female

Fig. 7

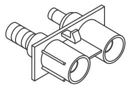

Dual Male

Fig. 8

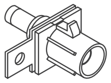

Single Male with Bracket

FAKRA Keying Codes

Female Housings

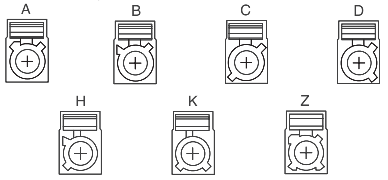

Mechanical and Color Coding

Coding	Rib Combination	Color	Similar RAL No.
A	A - B1	Deep Black	9005
B	A - B2	Signal White	9003
C	A - C	Signal Blue	5005
D	A - D	Bordeaux Violet	4004
H	B2 - C	Heather Violet	4003
K	C - D	Curry Yellow	1027
Z	Neutral Coding	Water Blue	5021

Male Housings

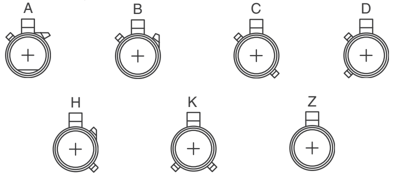

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
FAKRA Coding "A" (Deep Black)							
1	RG-174, 188, 316	ARF1253-ND	3.27	2.73	1.77	1.64	FA1-NASP-C01-1
	RG-58, 141	ARF1255-ND	2.94	2.45	1.59	1.47	FA1-NASP-C04-1
2	—	ARF1655-ND◊	3.42	2.85	1.85	1.71	FA1-NARP-PCB-8
3	RG-174, 188, 316	ARF1266-ND	3.12	2.60	1.68	1.56	FA1-NASJ-C01-0
	RG-58, 141	ARF1268-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C04-0
4	RG-174, 188, 316	ARF1272-ND	3.57	2.98	1.93	1.79	FA1-NARJ-C01-0
	RG-58, 141	ARF1273-ND	3.75	3.13	2.02	1.88	FA1-NARJ-C04-0
FAKRA II Coding "A" (Deep Black)							
1	RG-174, 188, 316	ARF1605-ND	2.70	2.25	1.46	1.35	2FA1-NASP-C01-1
5	RG-174, 188, 316	ARF1600-ND	2.76	2.30	1.49	1.38	2FA1-NASJ-C01-0
FAKRA Coding "B" (Signal White)							
2	—	ARF1656-ND◊	3.42	2.85	1.85	1.71	FA1-NBRP-PCB-8
3	RG-174, 188, 316	ARF1287-ND	3.12	2.60	1.68	1.56	FA1-NBSJ-C01-0
	RG-58, 141	ARF1289-ND	3.21	2.68	1.73	1.61	FA1-NBSJ-C04-0
FAKRA II Coding "B" (Signal White)							
5	RG-174, 188, 316	ARF1607-ND	2.76	2.30	1.49	1.38	2FA1-NBSJ-C01-0
	RG-58, 141	ARF1609-ND	2.85	2.38	1.54	1.43	2FA1-NBSJ-C04-0
FAKRA Coding "C" (Signal Blue)							
1	RG-174, 188, 316	ARF1316-ND	3.27	2.73	1.77	1.64	FA1-NCSP-C01-1
2	—	ARF1657-ND◊	3.42	2.85	1.85	1.71	FA1-NCRP-PCB-8
4	RG-174, 188, 316	ARF1310-ND	3.12	2.60	1.68	1.56	FA1-NCSJ-C01-0
	RG-58, 141	ARF1312-ND	3.21	2.68	1.73	1.61	FA1-NCSJ-C04-0
5	RG-174, 188, 316	ARF1311-ND	3.21	2.68	1.73	1.61	FA1-NCSJ-C01-6
6	RG-174, 188, 316	ARF1618-ND	3.93	3.28	2.12	1.97	FA1-NCRJ-C01-3
7	RG-174, 188, 316	ARF1323-ND	5.85	4.88	3.15	2.93	FA2-NCSP-C01-9
FAKRA II Coding "C" (Signal Blue)							
1	RG-174, 188, 316	ARF1619-ND	2.70	2.25	1.46	1.35	2FA1-NCSP-C01-1
	RG-58, 141	ARF1620-ND	2.76	2.30	1.49	1.38	2FA1-NCSP-C04-1
5	RG-174, 188, 316	ARF1614-ND	2.76	2.30	1.49	1.38	2FA1-NCSJ-C01-0
	RG-58, 141	ARF1616-ND	2.85	2.38	1.54	1.43	2FA1-NCSJ-C04-0
6	RG-174, 188, 316	ARF1615-ND	2.91	2.43	1.57	1.46	2FA1-NCSJ-C01-6

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
FAKRA Coding "D" (Bordeaux Violet)							
1	RG-174, 188, 316	ARF1343-ND	3.27	2.73	1.77	1.64	FA1-NDSP-C01-1
8	RG-174, 188, 316	ARF1331-ND	3.87	3.23	2.09	1.94	FA1-NDSP-C01-0
3	RG-174, 188, 316	ARF1339-ND	3.12	2.60	1.68	1.56	FA1-NDSJ-C01-0
	RG-58, 141	ARF1341-ND	3.21	2.68	1.73	1.61	FA1-NDSJ-C04-0
4	RG-174, 188, 316	ARF1340-ND	3.21	2.68	1.73	1.61	FA1-NDSJ-C01-6
6	RG-174, 188, 316	ARF1337-ND	3.57	2.98	1.93	1.79	FA1-NDRJ-C01-0
FAKRA II Coding "D" (Bordeaux Violet)							
1	RG-174, 188, 316	ARF1626-ND	2.70	2.25	1.46	1.35	2FA1-NDSP-C01-1
	RG-58, 141	ARF1627-ND	2.76	2.30	1.49	1.38	2FA1-NDSP-C04-1
5	RG-174, 188, 316	ARF1621-ND	2.76	2.30	1.49	1.38	2FA1-NDSJ-C01-0
	RG-58, 141	ARF1623-ND	2.85	2.38	1.54	1.43	2FA1-NDSJ-C04-0
FAKRA Coding "H" (Heather Violet)							
3	RG-174, 188, 316	ARF1428-ND	3.12	2.60	1.68	1.56	FA1-NHSJ-C01-0
2	—	ARF1658-ND◊	3.42	2.85	1.85	1.71	FA1-NHRP-PCB-8
FAKRA II Coding "H" (Heather Violet)							
1	RG-174, 188, 316	ARF1633-ND	2.70	2.25	1.46	1.35	2FA1-NHSP-C01-1
5	RG-58, 141	ARF1630-ND	2.85	2.38	1.54	1.43	2FA1-NHSJ-C04-0
FAKRA Coding "K" (Curry Yellow)							
3	RG-174, 188, 316	ARF1487-ND	3.12	2.60	1.68	1.56	FA1-NKSJ-C01-0
	RG-58, 141	ARF1489-ND	3.21	2.68	1.73	1.61	FA1-NKSJ-C04-0
4	RG-174, 188, 316	ARF1478-ND	3.57	2.98	1.93	1.79	FA1-NKRJ-C01-0
FAKRA II Coding "K" (Curry Yellow)							
1	RG-174, 188, 316	ARF1640-ND	2.70	2.25	1.46	1.35	2FA1-NKSP-C01-1
	RG-58, 141	ARF1641-ND	2.76	2.30	1.49	1.38	2FA1-NKSP-C04-1
5	RG-174, 188, 316	ARF1635-ND	2.76	2.30	1.49	1.38	2FA1-NKSJ-C01-0
FAKRA Coding "Z" (Water Blue)							
1	RG-174, 188, 316	ARF1533-ND	3.27	2.73	1.77	1.64	FA1-NZSP-C01-1
	RG-58, 141	ARF1535-ND	2.94	2.45	1.59	1.47	FA1-NZSP-C04-1
3	RG-174, 188, 316	ARF1526-ND	3.12	2.60	1.68	1.56	FA1-NZSJ-C01-0
	RG-58, 141	ARF1528-ND	3.21	2.68	1.73	1.61	FA1-NZSJ-C04-0
4	RG-174, 188, 316	ARF1523-ND	3.57	2.98	1.93	1.79	FA1-NZRJ-C01-0

◊ Tin Plated

(Continued)

FAKRA and FAKRA II SMB Connectors *(Cont.)*

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
			FAKRA II Coding "Z" (Water Blue)				
1	RG-174, 188, 316	ARF1647-ND	2.70	2.25	1.46	1.35	2FA1-NZSP-C01-1
	RG-58, 141	ARF1648-ND	2.76	2.30	1.49	1.38	2FA1-NZSP-C04-1
5	RG-174, 188, 316	ARF1642-ND	2.76	2.30	1.49	1.38	2FA1-NZSJ-C01-0
5	RG-58, 141	ARF1644-ND	2.85	2.38	1.54	1.43	2FA1-NZSJ-C04-0
6	RG-174, 188, 316	ARF1646-ND	3.93	3.28	2.12	1.97	FA1-NZRJ-C01-3
			Adapter				
5	—	ARF1012-ND	40.68	33.90	21.91	20.34	APH-FKJ-SMAJ

◊ Tin Plated

Description	Digi-Key Part No.	Price Each
Tool Crimp Open Frame without Die	ARF1649-ND	404.65
Crimp Tool	ARF1650-ND	482.39
Tool Die Center Pin RG-174, 188, 316	ARF1651-ND	102.03
Tool Die Set Center Pin RG-58	ARF1652-ND	93.71
Tool Die Set Ferrule RG-174, 188, 316, 179B, 186A, 187A	ARF1653-ND	213.65
Tool Die Set Ferrule RG-58, 55, 141, 142, 223, 303, 400	ARF1654-ND	189.50

AMC Connector Series

Amphenol Micro Coaxial (AMC) Connectors are for use in applications with 50Ω impedance requirements. AMC connectors are low profile (2.5mm of the board) and offer an extremely small board footprint (3mm X 3mm). • Impedance: 50Ω • Frequency Range: 0 ~ 6 GHz • Temperature Range: -40°C ~ 90°C

Fig. 1

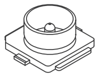

Fig. 2

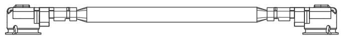

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Jack Straight 50Ω SMD	ARF1579CT-ND†	.78	.65	.44	A-1JB
	Jack Straight 50Ω SMD	ARF1579TR-ND‡		843.75/2,500		A-1JB
2	Cable Jumper Plug-Plug 100mm, Black	ARF1580-ND	3.65	2.52	2.27	A-1PA-113-100B2
	Cable Jumper Plug-Plug 100mm, Gray	ARF1733-ND	4.05	3.38	2.25	A-1PA-113-100G2
	Cable Jumper Plug-Plug 125mm, Black	ARF1581-ND	4.18	2.88	2.60	A-1PA-113-125B2
	Cable Jumper Plug-Plug 150mm, Black	ARF1577-ND	4.71	3.93	2.61	A-1PA-113-150B2
	Cable Jumper Plug-Plug 180mm, Black	ARF1734-ND	4.17	3.48	2.31	A-1PA-113-180B2
	Cable Jumper Plug-Plug 300mm, Black	ARF1578-ND	4.50	3.75	2.49	A-1PA-113-300B2
—	Adapter Plug-RP BNC Jack	ARF1583-ND	7.80	5.85	5.53	31-6109
	Adapter Plug-RP SMA Jack	ARF1585-NDΔ	10.20	8.50	5.65	901-10097

† Cut Tape ‡ Tape and Reel Δ -65°C ~ 165°C

SMP Connector Series

The SMP interface is a subminiature interface in the same scale as MMCX connectors but offers a frequency range of DC to 40 GHz. It is commonly used in miniaturized high frequency coaxial modules. • Impedance: 50Ω • Frequency Range: DC ~ 26.5 GHz • Contact Current: 1.2 A DC maximum • Temperature Range: -65°C ~ 165°C

Fig. 1

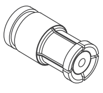

Fig. 2

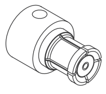

Fig. 3

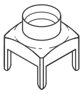

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Jack Straight .047 Semi-Rigid	ARF1592-ND	21.67	14.21	10.66	SMP-FS-C06
	Jack Straight .086 Semi-Rigid	ARF1593-ND	19.70	12.92	9.69	SMP-FS-C07
2	Jack R/A .047 Semi-Rigid	ARF1586-ND	21.67	14.21	10.66	SMP-FR-C06
	Jack R/A .086 Semi-Rigid	ARF1587-ND	19.70	12.92	9.69	SMP-FR-C07
3	Plug Limited Detent SMD	ARF1594-ND	11.13	8.47	7.89	SMP-MSLD-PCS
	Plug Limited Detent PCB	ARF1595-ND	19.82	13.00	9.74	SMP-MSLD-PCT
	Plug Smooth Bore SMD	ARF1596-ND	11.13	8.47	7.89	SMP-MSSB-PCS
	Plug Smooth Bore PCB	ARF1597-ND	19.82	13.00	9.74	SMP-MSSB-PCT
—	Adapter Straight 6.45mm	ARF1590-ND	18.56	12.18	9.13	SMP-FSBA-645
	Adapter Straight 9.90mm	ARF1591-ND	20.42	13.40	10.05	SMP-FSBA-990
	Adapter Straight 22.4mm	ARF1589-ND	21.91	14.38	10.78	SMP-FSBA-224

QMA Connector Series

The QMA connector is a quick disconnect version of the SMA connector and shares the same internal construction, which allows the connector to have excellent performance. Because of the innovative coupling mechanism, a 360-degree butt joint is maintained which results in low RF leakage. Since the RF line is identical to the SMA series, QMA connectors also offer the same high power handling capability. This gives the series significant advantages over other quick disconnect connectors, although QMA and SMA are not intermatable. Typically, these connectors can be installed into a system 10 times faster than an SMA connector. Another benefit of eliminating the threaded coupling is the denser packaging.

SPECIFICATIONS:

Electrical:

- Impedance: 50Ω • Frequency Range: DC ~ 6GHz • Return Loss: DC ~ 3GHz > 32dB, 3 ~ 6GHz > 25dB

Mechanical:

- Engagement Force: 5.6 lbs (25 N) • Disengagement Force: 4.5 lbs (20 N) • Retention Force for Interface: ≥ 13.5 lbs (60 N) • Mating Cycles: 100

Environmental:

- Temperature Range: -40°C ~ 80°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	R/A Plug for .141 Semi-Rigid	ARF1555-ND	19.99	13.11	9.84	930-103P-51A
	R/A Plug for LMR240	ARF1557-ND	18.50	12.13	9.10	930-106P-51A
	R/A Plug for RG-58	ARF1559-ND	20.36	13.34	10.01	930-110P-51A
2	Straight Plug for .086 Semi-Rigid	ARF1560-ND	16.44	10.78	8.09	930-119P-51S
	Straight Plug for RG-58	ARF1561-ND	18.39	12.05	9.04	930-120P-51S
	Straight Plug for RG-316	ARF1562-ND	18.39	12.05	9.04	930-129P-51S
3	Bulkhead Jack R/A SMD	ARF1569-ND	14.73	12.28	8.16	930-111J-51P
4	Jack 2-Hole Flanged	ARF1570-ND	18.17	11.92	8.95	930-117J-51S
5	Straight Bulkhead Jack for .086	ARF1571-ND	15.57	10.21	7.67	930-121J-51S
	Straight Bulkhead Jack for RG-316	ARF1574-ND	15.85	10.38	7.79	930-124J-51S
6	R/A PCB Jack Thru-hole MT	ARF1576-ND	18.73	12.28	9.20	930-128J-51P
7	Adapter Jack to SMA Jack	ARF1563-ND	65.59	43.01	32.26	930-100A-51S
8	Adapter Plug to SMA Jack	ARF1564-ND	74.62	48.92	36.71	930-101A-51S
9	Adapter Jack to SMA Plug	ARF1566-ND	80.04	52.49	39.37	930-131A-51S

Fig. 1

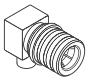

Fig. 2

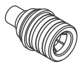

Fig. 3

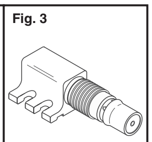

Fig. 4

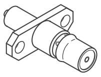

Fig. 5

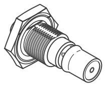

Fig. 6

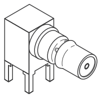

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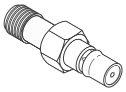

Fig. 8

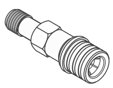

Fig. 9

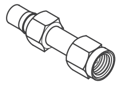

RF and RFX™ Connectors

BNC Coaxial Connectors

Fig. 1

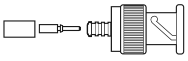

Fig. 2

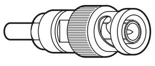

Fig. 3

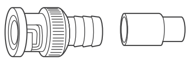

Fig. 4

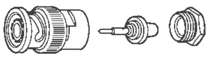

Fig. 5

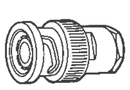

Fig. 6

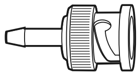

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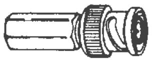

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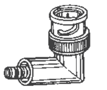

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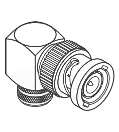

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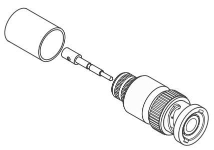

Fig. 11

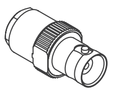

Fig. 12

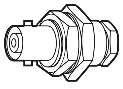

Fig. 13

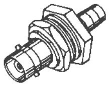

Fig. 14

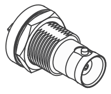

Fig. 15

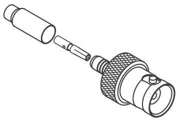

Fig. 16 ***NEW!***

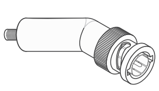

Fig.	Description	Ohms (Ω)	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing 1	10	25	Amphenol RF Part No.
1	Plug (Crimp)	50	55, 142, 223, 400	CTL-1	ARF1661 -ND◆	8.23	54.70	93.25	000-36875
	Plug (Crimp)	50	55, 142, 223, 400	CTL-1	ARF1676-ND◆	9.41	62.60	109.25	031-326
	Plug (Crimp)	50	Belden 8218	CTL-2	ARF1675-ND◆	10.63	70.70	120.75	031-325
	Plug (Crimp)	50	58, 141	CTL-1	ARF1679-ND◆	8.89	59.20	103.25	031-4320
	Plug (Crimp)	50	59, 62	CTL-1	ARF1680-ND◆	10.43	69.50	121.25	031-4321
	Plug	50	55, 142, 223	CTL-1	ARF1681-ND◆	6.96	46.30	81.00	031-4326
	Plug (Crimp)	50	142, 400	CTL-1	ARF1682-ND◆	9.53	63.60	151.25	031-4427
	Plug (2 Crimp Ferrules)	75	6, Belden 9248	CTL-8	ARF1698-ND◆	10.43	70.10	119.75	031-70000
	Plug (Crimp)	75	59	CTL-6, -8	ARF1699-ND◆	11.59	77.10	131.75	031-70008
	Plug (Crimp)	75	6	CTL-2	ARFX1117-ND◆†	4.80	32.00	54.25	031-71000-RFX
	Plug	50	58, 141	CTL-1	ARF1039-ND◆	6.89	45.94	79.84	31-320
	Plug	50	Belden 9907, 89907	CTL-1	ARF1054-ND◆	8.12	53.90	92.25	31-320-1006
	Plug	50	58A, 141, 142A	CTL-1	ARFX1039-ND◆†	2.60	17.10	30.50	31-320-RFX
	Plug (Quick-Crimp)	50	Plenum 58	CTL-1	ARFX1041-ND◆†	2.83	18.80	31.75	36650-3RFX
	Plug	50	59, 62	CTL-1	ARF1042-ND◆	7.53	50.21	87.43	31-321
	Plug	50	59, 62	CTL-1	ARFX1042-ND◆†	2.06	13.55	27.74	31-321-RFX
	Plug	50	Belden 8281, 88281	CTL-2	ARF1051-ND◆	9.10	60.60	103.25	31-321-1000
	Plug	50	59, 62, 71, 140, 210, 302	CTL-1	ARF1156-ND◆	7.28	48.40	82.50	68175
	Plug	50	Belden 9259	CTL-1	ARF1052-ND	7.38	49.00	83.75	68175-1003
	Plug	50	59 (20AG CC)	CTL-1	ARF1046-ND◆	8.01	53.40	91.00	68175-1005
	Plug	50	59 (20GA CC)	CTL-1	ARFX1046-ND◆†	2.54	16.94	28.91	68175-5RFX
	Plug	50	Plenum 59, 62	CTL-1	ARFX1047-ND◆†	3.10	20.80	35.25	68175-11RFX
	Plug	50	174, 188, 316	CTL-2	ARF1049-ND◆	7.83	52.01	88.87	31-315
	Plug	50	174, 188, 316	CTL-2	ARFX1049-ND◆†	2.85	19.05	32.30	31-315-RFX
	Plug	50	179, 187	CTL-2	ARF1050-ND◆	9.29	61.87	105.51	31-242
	Plug	75	59, 62	CTL-1	ARFX1123-ND◆†	1.54	10.17	23.20	31-71008-RFX
	Plug	75	59, 62	CTL-1	ARF1175-ND◆	5.45	36.31	61.58	31-71008
	Plug (Crimp)	75	59 (20GA CC)	CTL-1	ARF1700-ND◆†	3.05	20.30	34.75	031-71008-1RFX
	Plug	75	59, 62 (20GA CC)	CTL-1	ARF1176-ND◆	5.71	38.08	65.17	31-71008-1000
	Plug	75	179, 187	CTL-2	ARF1174-ND◆	6.90	45.86	78.29	31-71013
	Plug (Crimp)	75	179, 187	CTL-2	ARF1701-ND◆†	3.52	23.70	41.00	031-71013-RFX
	Plug	75	Belden 8218	CTL-2	ARF1173-ND◆	5.40	35.94	61.24	31-71033
	Plug	75	Belden 8281, 88281	CTL-2	ARF1172-ND◆	6.42	42.60	73.00	31-71032
	Plug (Thinnet/Ethernet)	50	58, 141	CTL-1	ARF1181-ND◆	3.67	24.50	42.00	31-5800
	Plug (IBM/Arcnet)	50	59, 62 (20GA CC)	CTL-1	ARF1182-ND◆	3.91	26.00	45.25	31-5900
2	Plug (Original Crimp)	50	174, 179, 187, 188, 316	—	ARF1143-ND◆	27.07	180.50	269.50	31-371
3	Plug (Single Crimp)	50	59, 62	CTL-2	ARFX1124-ND◆†	3.35	22.31	38.07	31-5556-RFX
4	Plug (Quicktrim®)	50	58	CTL-1	ARF1672-ND◆	24.65	163.90	301.25	031-30220-1
	Plug (Quicktrim®)	50	59, 62	CTL-1	ARF1045-ND◆	21.33	177.75	295.07	31-4541
	Plug (Quicktrim®)	50	59, 62	CTL-1	ARFX1045-ND◆†	7.41	49.40	84.25	31-4541-RFX
5	Plug	50	55, 58, 141, 142, 223, 400	—	ARF1040-ND◆	6.53	43.36	78.33	31-202
	Plug (Quick Clamp)	50	59 (20GA CC)	—	ARF1662-ND◆	8.77	58.50	102.50	031-212-1005
	Plug	50	59, 62	—	ARF1043-ND◆	6.13	40.88	88.83	31-212
	Plug	50	59, 62	—	ARFX1043-ND◆†	2.81	18.64	38.61	31-212-RFX
	Plug	50	8, 9,11, 213, 214	—	ARF1155-ND◆	22.99	176.70	371.75	6775
	Plug	50	58, 141, 142, 400	—	ARF1126-ND◆	7.43	49.30	96.25	31-2
	Plug	50	58, 141, 142A	—	ARFX1119-ND◆†	3.12	20.87	36.59	31-2-RFX
	Plug (Clamp)	50	58, 141, 142, 223	—	ARF1677-ND◆	15.12	126.00	189.00	031-3301
	Plug	50	59, 62, 71, 140, 210, 302	—	ARF1123-ND◆	14.66	97.70	166.50	31-12
	Plug	50	174, 179, 187, 188, 316	—	ARF1157-ND◆	11.40	75.95	129.77	69475
	Plug	50	178, 196	—	ARF1120-ND◆	13.12	87.40	149.50	15875
6	Plug (FCP)	50	58, 141	—	ARF1145-ND◆	9.13	60.90	103.75	31-4700
	Plug (FCP)	50	59	—	ARF1146-ND	8.71	57.90	127.50	31-4702
7	Plug (Suretwist®)	50	59, 62	—	ARF1044-ND◆	8.71	57.90	99.00	31-5136
	Plug (Suretwist ®)	50	59, 62	—	ARFX1044-ND◆†	3.10	20.80	36.25	31-5136-RFX
	Plug (Suretwist ®)	50	58, 141, 142	—	ARFX1147-ND◆†	3.40	22.90	39.75	31-5137-RFX
8	Angle Plug	50	58, 144	CTL-1	ARFX1055-ND◆†	7.53	50.00	85.50	31-335-RFX
9	Right Angle Plug	50	Belden 9913, 9914	CTL-4	ARF1696-ND◆†	9.24	61.40	105.00	031-6004-RFX
10	Straight Plug	50	Belden 8214, 9913, 9914	CTL-11	ARF1694-ND◆†	9.34	62.10	106.00	031-5998-RFX
11	Jack (Clamp)	50	223	—	ARF1686-ND◆	8.71	57.90	99.00	031-5
12	Bulkhead Jack (Clamp)	50	58, 141, 142, 400	—	ARF1127-ND◆	13.43	89.30	152.50	31-206
13	Bulkhead Jack	50	58, 141	CTL-1	ARF1060-ND◆	12.39	101.10	218.75	31-342
	Bulkhead Jack	50	58, 141, 142, 223	CTL-1	ARFX1060-ND◆†	4.60	30.51	52.33	31-342-RFX
	Bulkhead Jack	50	59, 62, 140, 210	CTL-1	ARFX1061-ND◆†	6.77	45.10	77.25	31-343-RFX
	Bulkhead Jack	50	174, 188, 316	CTL-2	ARF1139-ND◆	14.94	99.46	169.59	31-318

◆ ***RoHS Compliant*** † RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 ~ 3GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors. *(Continued)*

RF and RFX™ Connectors

BNC Coaxial Connectors *(Cont.)*

Fig. 17

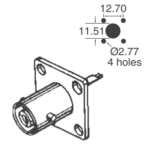

Fig. 18

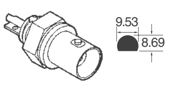

Fig. 19

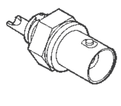

Fig. 20

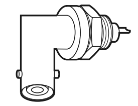

Fig. 21

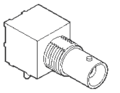

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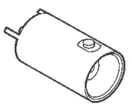

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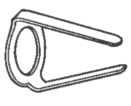

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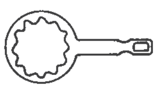

Fig. 25

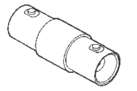

Fig. 26

Fig. 27

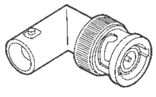

Fig. 28

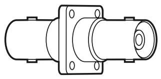

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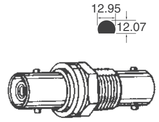

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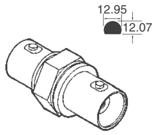

Fig. 31

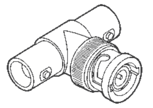

Fig. 32

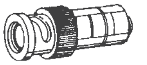

Fig. 33

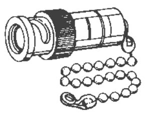

Fig. 34

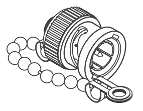

Fig.	Description	Ohms (Ω)	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing 1	10	25	Amphenol RF Part No.
13	Bulkhead Jack	50	174, 188, 316	CTL-2	ARFX1139-ND◆†	5.76	38.27	65.26	31-318-RFX
	Bulkhead Jack (Crimp)	75	179, 187	CTL-2	ARF1703-ND◆†	6.26	41.70	71.25	031-71016-RFX
14	Bulkhead Jack, Rear-mount	50	—	CTL-1	ARF1678-ND◆	15.09	100.50	174.75	031-4237
15	Jack (Crimp)	50	174, 188, 316	CTL-2	ARF1673-ND◆	17.07	113.80	194.00	031-317
	Jack (Crimp)	50	174, 188, 316	CTL-2	ARF1674-ND◆†	4.16	27.90	47.50	031-317-RFX
	Jack (Crimp)	75	179, 187	CTL-2	ARF1702-ND◆†	1.83	17.00	41.50	031-71014-RFX
16	45° Angle Plug	75	RG-179, 179B M17/94, Belden 9221	CTL-1200	ARF1741-ND◆ ***NEW!***	23.46	195.50	324.53	031-80401
	45° Angle Plug	75	AT&T 734A, Belden 1505A	CTL-1200	ARF1742-ND◆ ***NEW!***	19.23	160.25	274.03	031-80404
	45° Angle Plug	75	AT&T 735A, Belden 735A1	CTL-15	ARF1743-ND◆ ***NEW!***	19.23	160.25	274.03	031-80405

Fig.	Description	Ohms (Ω)	Digi-Key Part No.	Pricing 1	10	25	Amphenol RF Part No.
17	Panel Receptacle (Solder)	50	ARF1062-ND◆	11.10	73.86	126.31	31-203
	Panel Receptacle (Solder)	50	ARFX1062-ND◆†	5.45	36.30	61.75	31-203-RFX
18	Bulkhead Receptacle, Isolated (Solder)	50	ARF1063-ND◆	4.44	29.53	50.36	31-10
	Bulkhead Receptacle, Isolated (Solder)	50	ARFX1063-ND◆†	3.38	22.51	40.89	31-10-RFX
	Bulkhead Receptacle, Isolated	75	ARF1121-ND◆	12.29	81.80	139.75	31-10-75
19	Bulkhead Receptacle, Pressurized	50	ARF1134-ND◆	4.48	29.90	52.50	31-236
	Bulkhead Receptacle	50	ARF1064-ND◆	3.51	23.42	39.93	31-221
	Bulkhead Receptacle (Solder)	50	ARFX1064-ND◆†	2.63	17.40	31.00	31-221-RFX
	Bulkhead Receptacle (Solder)	75	ARF1664-ND◆†	2.49	16.50	40.50	031-221-75RFX
	Bulkhead Receptacle	50	ARF1131-ND◆	4.67	31.14	53.16	31-2221
	Bulkhead Receptacle	75	ARF1149-ND◆	16.62	138.50	229.91	31-70018
	Bulkhead Receptacle, Pressurized	50	ARF1122-ND◆	9.32	61.90	119.00	31-102
	Bulkhead Receptacle, Pressurized	50	ARF1136-ND◆	40.18	267.40	456.75	31-238
20	Angle Bulkhead Receptacle	50	ARF1130-ND◆	76.07	506.20	864.25	31-222
21	Right Angle Bulkhead Receptacle	50	ARF1065-ND◆	8.36	55.70	95.00	31-5431
	Right Angle Receptacle Jack PCB, White	50	ARF1690-ND◆†	3.14	20.70	37.25	031-5431-10RFX
	Right Angle Bulkhead Receptacle w/Hardware	50	ARF1065NW-ND◆	9.44	71.51	120.53	31-5431-2010
	Right Angle Bulkhead Receptacle	75	ARF1177-ND◆	7.18	47.74	81.85	31-71047-1010
	Right Angle Bulkhead Receptacle	50	ARF1178-ND◆	7.22	48.00	82.25	31-5640-1010
	Right Angle Bulkhead Receptacle, Metal	75	ARF1179-ND◆	6.90	45.89	78.69	31-71043-1010
	Right Angle Bulkhead Receptacle, Low Profile	50	ARF1180-ND◆	8.90	59.20	101.00	31-5486-1010
	Right Angle Receptacle Jack PCB, Black	50	ARF1691-ND◆†	3.33	22.10	37.75	031-5538-10RFX
	Right Angle Receptacle Jack PCB	50	ARF1692-ND◆	4.68	39.00	64.74	031-5637
	Right Angle Receptacle Jack PCB	75	ARF1704-ND◆	9.30	61.80	105.50	031-71042
22	Receptacle, Vertical PC	50	ARF1066-ND◆	9.23	61.50	105.00	31-5329
	Receptacle, Post Terminal PCB	50	ARF1687-ND◆†	3.06	20.50	36.25	031-5329-51RFX
	Receptacle, Post Terminal PCB	50	ARF1688-ND◆†	3.37	22.60	41.75	031-5329-52RFX
	Receptacle, Vertical, Post Terminal PCB	75	ARF1689-ND◆†	3.06	20.50	42.75	031-5329-72RFX
23	Shield Grounding Lug	75	ARF1067-ND◆	.82	5.60	9.50	31-759
24	Grounding Lug	75	ARF1068-ND◆†	.76	4.96	8.83	31-10152-RFX
25	Straight/Jack-Jack	50	ARF1069-ND◆	7.83	52.10	88.84	31-219
	Straight/Jack-Jack	50	ARFX1069-ND◆†	5.29	35.20	65.25	31-219-RFX
	Straight/Jack-Jack	75	ARF1150-ND◆	8.57	56.99	97.35	31-70019
26	Straight/Plug-Plug	50	ARF1070-ND◆	13.86	92.10	173.00	31-218
	Straight/Plug-Plug	50	ARFX1070-ND◆†	4.61	31.20	54.00	31-218-RFX
27	Right Angle Jack-Plug	50	ARF1071-ND◆	19.21	127.80	218.25	31-9
	Right Angle Jack-Plug	50	ARFX1071-ND◆†	7.16	47.80	81.75	31-9-RFX
	Right Angle Jack-Plug	75	ARF1705-ND◆†	6.77	45.10	81.75	031-9-75RFX
	Right Angle Jack-Plug	50	ARF1128-ND◆	20.96	139.50	238.00	31-209
28	Panel/Jack-Jack	50	ARF1154-ND◆	51.49	492.90	731.50	47000
29	Bulkhead/Jack-Jack, Gasketed	50	ARFX1130-ND◆†	5.44	36.28	63.01	31-220G-RFX
	Bulkhead/Jack-Jack (Sealed)	50	ARF1129-ND◆	14.33	95.29	162.97	31-220H
	Bulkhead/Jack-Jack, Non-Gasketed	50	ARF1072-ND◆	12.39	82.50	141.00	31-220N
	Bulkhead/Jack-Jack	50	ARFX1072-ND◆†	4.86	32.34	54.99	31-220N-RFX
	Bulkhead/Jack-Jack, Non-Gasketed	75	ARF1735-ND◆†	5.45	36.30	62.75	031-220N-75RFX
	Bulkhead/Jack-Jack (Sealed)	50	ARF1140-ND◆	17.19	114.40	210.25	31-3220
	Bulkhead/Jack-Jack, Gasketed	75	ARF1151-ND◆	29.12	193.70	330.75	31-70020
30	Bulkhead/Jack-Jack (Isolated)	50	ARF1073-ND◆	14.35	95.53	163.10	31-4803
	Bulkhead/Jack-Jack (Isolated)	75	ARF1684-ND◆	18.80	125.10	213.25	031-4803-75
	Bulkhead/Jack-Jack (Isolated)	50	ARF1685-ND◆†	4.91	32.70	59.00	031-4803-RFX
31	Tee/Jack-Plug-Jack	50	ARF1152-ND◆	19.08	127.20	206.75	31-8
	Tee/Jack-Plug-Jack	50	ARF1074-ND◆	15.16	100.90	172.25	31-208
	Tee/Jack-Plug-Jack	50	ARFX1074-ND◆†	6.80	45.30	77.50	31-208-RFX
32	Resistor Terminated Cap	50	ARF1075-ND◆	24.45	162.70	277.75	46650-51
	Resistor Terminated Cap	50	ARFX1075-ND◆†	3.55	23.64	40.34	46650-51-RFX
	Resistor Terminated Cap	75	ARFX1076-ND◆†	3.63	24.10	41.25	46650-75-RFX
	Resistor Terminated Cap	93	ARFX1077-ND◆†	4.18	27.90	47.50	46650-93-RFX
33	Resistor Terminated Cap & Chain	50	ARF1078-ND◆	24.11	160.50	274.00	35650-51
	Resistor Terminated Cap & Chain	75	ARF1079-ND◆	26.52	176.60	301.25	35650-75
34	Male Shorting Cap & Chain	75	ARF1663-ND◆	10.08	67.00	114.50	031-17
	Male Cap & Chain	75	ARF1695-ND◆	7.00	46.50	79.75	031-6
	Male Cap & Chain	75	ARF1697-ND◆†	3.03	20.30	36.00	031-6-RFX

◆ ***RoHS Compliant*** † RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 ~ 3GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

RF and RFX™ Connectors

Mini BNC Connectors

The Mini BNC series provides the same positive locking bayonet system found on the BNC and allows 40% more interconnects in the same area. **Specifications:** ***Electrical:*** • Impedance: 75Ω • Frequency Range: DC-4 GHz • Voltage Rating: 500v ***Mechanical:*** • Connector Durability: 500 cycles ***Environmental:*** • Temperature Range: -40°C ~ 85°C

Fig.	Description	Contact Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
1	Plug (Crimp)	Gold	735A	ARF1548-ND	9.25	6.86	5.64	4.85	31-70251
	Plug (Crimp)	Gold	Belden 8218	ARF1549-ND	9.25	6.86	5.64	4.85	31-70260
	Plug (Crimp)	Gold	RG-179/U, 187A/U	ARF1550-ND	8.41	6.23	5.13	4.41	31-70261
2	Jack, Vertical	Gold	—	ARF1551-ND	5.42	4.75	4.23	3.53	31-70250
3	Jack, R/A	Gold	—	ARF1553-ND	9.44	6.99	5.68	4.80	31-70255
4	Jack, Bulkhead R/A	Gold	—	ARF1554-ND	9.42	6.98	5.68	4.78	31-6055

Dimensions Inch (mm)

Fig. 1

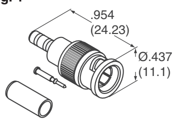

Fig. 2

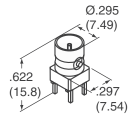

Fig. 3

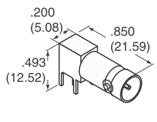

Fig. 4

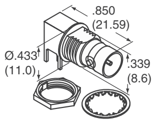

Dimensions in mm

Fig. 1

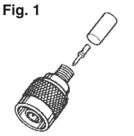

Fig. 2

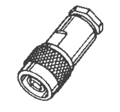

Fig. 3

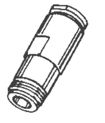

Fig. 4

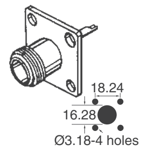

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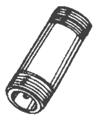

Fig. 6

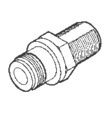

Fig. 7

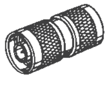

Fig. 8

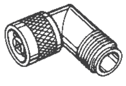

Fig. 9

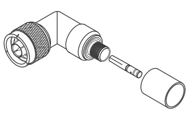

Fig.10

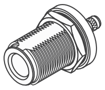

Fig. 11

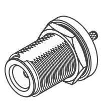

Fig. 12

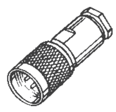

Fig. 13

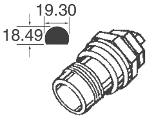

Fig. 14

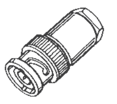

Fig. 15

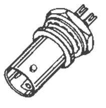

Fig. 16

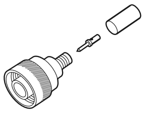

Fig. 17

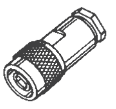

Fig. 18

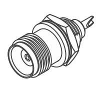

Fig. 19

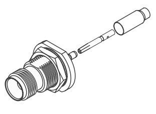

Fig. 20

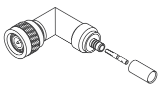

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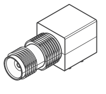

Fig. 22

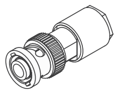

Type N Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Plug (Crimp)‡	8, 213	M39012/10B-0007	ARF1013-ND	18.66	12.85	8.45	82-340
	Plug (Crimp)	9, 214	—	ARF1163-ND	21.03	17.53	11.64	82-332
	Plug (Crimp)	55, 142, 223	—	ARF1164-ND	16.14	13.45	8.94	82-5370
	Plug (Crimp)	Belden 9913, 9914	—	ARF1706-ND	17.63	12.14	8.49	082-340-1052
	Plug (Crimp)	142, 400	M39012/01-0503	ARF1707-ND	26.24	18.07	12.63	082-4427
	Plug (Crimp)	58, 141	—	ARF1708-ND	12.21	10.18	6.76	082-5375
	Plug (Crimp)	58, 141	—	ARF1709-ND*	7.66	5.28	3.83	082-5375-RFX
2	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D/U	ARF1014-ND	25.32	21.10	14.02	82-202
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-1185	ARF1161-ND	15.57	10.74	8.57	82-312
	Plug (Clamp)	58, 141, 142	UG-536B/U	ARF1016-ND	13.11	9.03	8.82	34025
	Plug (Clamp)	58, 141, 142	UG-536B	ARFX1016-ND*	12.72	8.49	4.48	34025-RFX
	Plug (Clamp)	Belden 9913	—	ARF1020-ND	13.26	9.15	6.39	82-202-1006
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D	ARFX1183-ND*	10.81	7.44	5.22	82-202-RFX
3	Jack (Clamp)	8, 9, 87A, 144, 165,	UG-23B/U	ARF1021-ND	19.60	13.49	9.45	82-63
4	Panel Receptacle	—	UG-58A/U	ARF1023-ND	13.86	9.95	7.63	82-97
	Panel Receptacle	—	UG-58A	ARFX1023-ND*	6.71	4.64	3.24	82-97-RFX
	Panel Receptacle	—	UG-58	ARF1160-ND	17.33	11.91	8.33	82-24
5	Straight/Jack-Jack	—	UG-29B/U	ARF1025-ND	22.71	15.66	10.29	82-101
	Straight/Jack-Jack	—	UG-29B	ARFX1025-ND*	8.77	6.06	4.25	82-101-RFX
6	Bulkhead/Jack-Jack	—	UG-30/U	ARF1026-ND	34.41	23.69	16.60	82-66
	Bulkhead/Jack-Jack	—	—	ARF1713-ND	10.33	7.09	4.97	082-66-RFX
7	Straight/Plug-Plug	—	UG-57B/U	ARF1027-ND	17.99	14.90	12.40	82-100
	Straight/Plug-Plug	—	UG-57B	ARFX1027-ND*	13.62	9.37	6.15	82-100-RFX
8	Angle/Jack-Plug	—	UG-27A	ARF1028-ND	47.13	32.45	22.70	82-64
9	R/A Plug (Crimp)	214, 225, 393	M39012/05-0501	ARF1710-ND	70.65	58.88	39.10	082-4440
10	Bulkhead Jack (Crimp)	58, 141	—	ARF1711-ND	8.86	6.10	4.26	082-5378-RFX
11	Bulkhead Jack (Crimp)	174, 188, 316	—	ARF1712-ND	12.09	10.08	6.69	082-6093-RFX

* RFX connectors ‡ Crimp tools are listed within the RF and RFX Connectors section.

Twinaxial Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
12	Plug (Clamp)	AA-6076, AA-6079	ARFX1031-ND*	10.18	7.01	4.92	82-5589-RFX
13	Receptacle	—	ARFX1035-ND*	14.36	9.89	6.91	82-5590-RFX
14	BNC Plug/Twinax - Noryl	108A	ARF1037-ND	17.14	11.81	7.76	31-224
	BNC Plug/Twinax - TFE	108A	ARF1133-ND	25.84	17.79	11.70	31-2226
15	BNC Bulkhead/Twinax - Noryl	—	ARF1038-ND	29.35	20.22	13.28	31-223
	BNC Bulkhead/Twinax - TFE	—	ARF1132-ND	25.50	17.57	11.54	31-2225

* RFX connectors

TNC Coaxial Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
16	Plug (Quick Crimp)‡	—	ARF1081-ND	8.98	5.98	4.07	36825
	Plug (MIL-Crimp)	142, 223	ARF1135-ND	7.27	4.85	3.38	31-2373
	Plug (Crimp)‡	59, 62	ARF1084-ND	7.77	5.18	3.61	31-2368
17	Plug (Crimp)	58, 141	ARF1670-ND*	2.78	1.85	1.27	031-2367-RFX
	Plug (Clamp)	58, 141, 142A	ARFX1082-ND*	3.04	2.02	1.56	79875-RFX
	Plug (Crimp)	142, 400	ARF1683-ND	12.96	10.80	7.18	031-4452
	Plug (Crimp)	174, 188, 316	ARF1667-ND*	3.04	2.09	1.48	031-2315-RFX
18	Bulkhead Receptacle	—	ARF1665-ND	10.81	7.20	4.99	031-2301
	Bulkhead Receptacle	—	ARF1666-ND*	3.35	2.27	1.62	031-2301-RFX
19	Bulkhead Jack (Crimp)	174, 188, 316	ARF1668-ND	17.33	11.53	7.87	031-2318
	Bulkhead Jack (Crimp)	174, 188	ARF1669-ND*	5.21	3.45	2.41	031-2318-RFX
20	Angle Plug (Crimp)	55, 142, 223, 400	ARF1671-ND	27.60	18.38	12.55	031-2381
21	Right Angle Jack PCB	—	ARF1693-ND	16.71	13.93	9.25	031-5660

‡ Crimp tools are listed within the RF and RFX Connectors section.
* RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

MHV Coaxial Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
22	Plug (Clamp)	59, 62, 71, 140, 210	ARF1659-ND	18.86	12.59	8.49	000-28000
	Plug (Clamp)	55, 58, 141, 142	ARF1660-ND	17.37	11.63	9.56	000-29100

SMA and SMB Connectors

Fig. 1

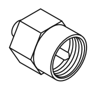

Fig. 2

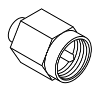

Fig. 3

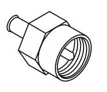

Fig. 4

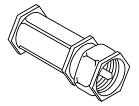

Fig. 5

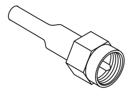

Fig. 6

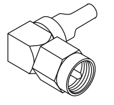

Fig. 7

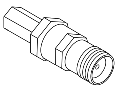

Fig. 8

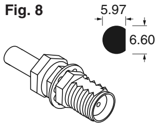

Fig. 9

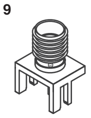

Fig. 10

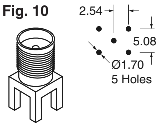

Fig. 11

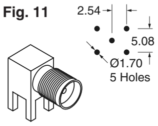

Fig. 12

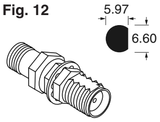

Fig. 13

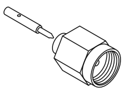

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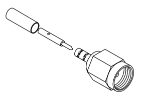

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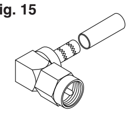

Fig. 16

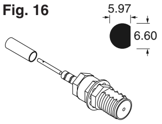

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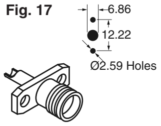

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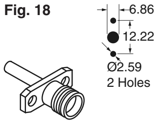

Fig. 19

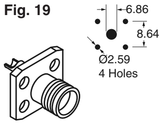

Fig. 20

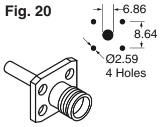

Fig. 21

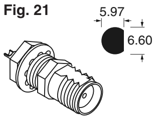

Fig. 22

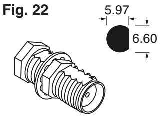

Fig. 23

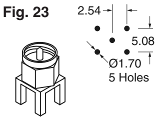

Fig. 24

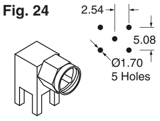

Fig. 25

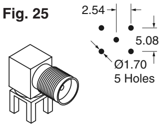

Fig. 26

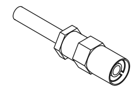

Fig. 27

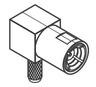

Fig. 28

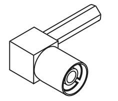

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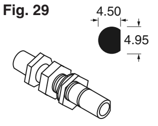

Fig. 30

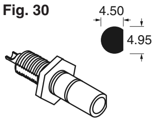

Fig. 31

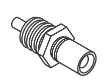

Fig. 32

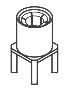

Fig. 33

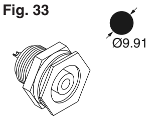

Fig. 34

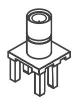

Fig. 35

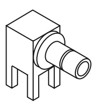

Fig. 36

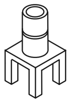

SMA Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol RF Part No.
				Outer	Inner		1	10	25	
1	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1184-ND	6.48	5.19	4.51	901-9723
2	Plug, Straight	.141" (3.6mm) RG-402 (M17/130)	Gold	Solder	Plugable	ARF1185-ND	6.48	5.19	4.51	901-9808
3	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1186-ND	6.90	5.51	4.80	901-9805-HP
4	Plug, Straight	55, 58, 141, 142, 223	Gold	Clamp	Solder	ARF1187-ND†	60.07	51.74	47.54	901-103
	Plug, Straight	174, 316	Gold	Clamp	Solder	ARF1188-ND†	43.35	40.44	35.93	901-128-11
5	Plug, Straight	55B, 142B, 223, 400	Gold	Crimp	Solder	ARF1189-ND	9.11	7.29	6.72	901-9511-1
	Plug, Straight	55B, 142B, 223, 400	Passivated	Crimp	Solder	ARF1190-ND	9.02	7.22	6.28	901-9511-1SF
	Plug, Straight	55B, 142B, 223, 400	Passivated	Crimp	Crimp	ARF1717-ND	18.93	15.14	13.16	901-9511-1SFC
	Plug, Straight	174, 178, 187, 188, 316	Gold	Crimp	Solder	ARF1191-ND	7.93	6.35	5.52	901-9511-3
	Plug, Straight	174, 178, 187, 188, 316	Passivated	Crimp	Solder	ARF1192-ND	6.92	5.54	4.81	901-9511-3SF
	Plug, Straight	Dbl. Braid RG-188, 316	Passivated	Crimp	Solder	ARF1193-ND	8.44	6.73	5.85	901-9511-12SF
6	Plug, Right Angle	55, 141, 142, 223	Gold	Crimp	Solder	ARF1194-ND	14.59	11.67	10.15	901-9531-1
	Plug, Right Angle	SF 142B, Times AA-2423	Passivated	Crimp	Solder	ARF1195-ND	10.60	9.54	8.48	901-9531-1SF
	Plug, Right Angle	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1196-ND	14.66	11.73	10.19	901-9531-3
	Plug, Right Angle	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1197-ND	9.04	7.23	6.28	901-9531-3SF
	Plug, Right Angle	Double Braid RG-316	Gold	Crimp	Solder	ARF1198-ND	13.82	11.04	9.60	901-9531-12
	Plug, Right Angle	Double Braid RG-316	Passivated	Crimp	Solder	ARF1199-ND	9.09	7.28	6.35	901-9531-12SF
7	Jack	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1201-ND	44.36	35.50	32.79	901-9602-3SF
8	Jack, Bulkhead	55, 142, 223, 400	Passivated	Crimp	Solder	ARF1202-ND	27.60	22.08	19.21	901-9610-1SF
	Jack, Bulkhead	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1203-ND	20.14	16.11	14.01	901-9610-3
	Jack, Bulkhead	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1204-ND	16.53	13.22	11.49	901-9610-3SF
9	Jack, End Launch PCB		Gold	—	—	ARF1716-ND	12.35	9.88	8.58	901-10003
	Jack, End Launch PCB		Gold	—	—	ARF1744-ND✔	7.47	6.23	4.14	901-10309
10	Jack, Printed Circuit Board, Panel		Gold	—	—	ARF1205-ND	10.03	8.03	6.99	901-144
11	Jack, Printed Circuit Board, Angle		Gold	—	—	ARF1206-ND	11.52	9.22	8.01	901-143
12	Adapter, Bulkhead Jack-Jack, Front or Rear Mount		Gold	—	—	ARF1207-ND	14.26	11.41	10.21	901-9209A
	Adapter, Bulkhead Jack-Jack, Front or Rear Mount		Passivated	—	—	ARF1208-ND	12.97	10.37	9.29	901-9209-ASF

† Safety wire holes   ✔ ***NEW!***

SMA Brass Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol RF Part No.
				Outer	Inner		1	10	25	
13	Plug, Straight	.141" (3.6mm) S/R	Gold	Solder	Solder	ARFX1209-ND	3.57	2.86	2.48	901-9868-RFX
	Plug, Straight	.085" (2.16mm) S/R	Gold	Solder	Solder	ARF1210-ND	2.78	2.24	1.94	901-9867-RFX
14	Plug, Straight	58	Gold	Crimp	Solder	ARF1211-ND	5.36	4.30	3.73	901-9870
	Plug, Straight	141, 223	Gold	Crimp	Solder	ARF1212-ND	6.03	4.82	4.19	901-9871
	Plug, Straight	58	Nickel	Crimp	Solder	ARFX1213-ND	3.08	2.46	2.14	901-9876-RFX
	Plug, Straight	174, 188, 316	Nickel	Crimp	Solder	ARFX1214-ND	2.78	2.22	1.94	901-9877-RFX
	Plug, Straight	174, 188, 316	Gold	Crimp	Solder	ARF1215-ND	5.27	4.21	3.67	901-9916
15	Plug, Right Angle	174, 188, 316	Gold	Crimp	Solder	ARF1216-ND	8.88	7.11	6.19	901-9872
	Plug, Right Angle	58	Gold	Crimp	Solder	ARF1217-ND	8.95	7.16	6.24	901-9873
	Plug, Right Angle	141, 223	Gold	Crimp	Solder	ARF1218-ND	12.57	10.48	6.96	901-9874
	Plug, Right Angle	58	Nickel	Crimp	Solder	ARFX1219-ND	5.43	4.35	3.77	901-9880-RFX
	Plug, Right Angle	174, 188, 316	Nickel	Crimp	Solder	ARFX1220-ND	5.03	4.04	3.50	901-9881-RFX
16	Bulkhead Jack	174, 188, 316	Gold	Crimp	Solder	ARF1221-ND	8.16	6.54	5.69	901-9875
	Bulkhead Jack	174, 188, 316	Nickel	Crimp	Solder	ARFX1222-ND	7.22	5.78	5.02	901-9879-RFX
9	Receptacle, Straight PCB		Gold	—	—	ARFX1231-ND	3.31	2.65	2.30	901-144-8RFX
17	Panel Receptacle, Jack		Nickel	—	—	ARFX1223-ND	5.10	4.09	3.54	901-9893-RFX
18	Panel Receptacle, Jack		Nickel	—	—	ARFX1224-ND	6.98	5.59	4.87	901-9891-RFX
19	Panel Receptacle, Jack		Nickel	—	—	ARFX1225-ND	5.16	4.13	3.59	901-9892-RFX
20	Panel Receptacle, Jack		Nickel	—	—	ARFX1226-ND	7.43	5.94	5.16	901-9887-RFX
21	Bulkhead Receptacle, Front Mount		Nickel	—	—	ARFX1227-ND	4.50	3.61	3.14	901-9889-RFX
22	Bulkhead Receptacle, Rear Mount		Nickel	—	—	ARFX1228-ND	4.14	3.32	2.89	901-9890-RFX
23	Receptacle Plug, Straight, PCB		Gold	—	—	ARFX1229-ND	4.24	3.40	2.95	901-9895-RFX
24	Receptacle Plug, Right Angle, PCB		Gold	—	—	ARFX1230-ND	7.39	5.91	5.15	901-9894-RFX
25	Receptacle, Right Angle PCB		Gold	—	—	ARFX1232-ND	4.70	3.77	3.28	901-143-6RFX

SMB Coaxial Connectors

Fig.	Description	Cable Group RG/U	Plating	Cable Attachment		Digi-Key Part No.	Price Each			Amphenol RF Part No.
				Outer	Inner		1	10	25	
26	Plug, Straight	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1233-ND	6.48	5.18	5.06	903-370P-51S
27	Plug, Right Angle	RG-179	Gold	Crimp	Solder	ARF1722-ND	18.24	15.20	10.10	903-535P-71A
28	Plug, Right Angle	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1235-ND	4.54	3.69	3.32	903-367P-51A2
	Plug, Right Angle	RG-174, 179, 187,188, 316	Gold	Crimp	Solder	ARF1245-ND	16.98	14.15	9.40	903-289P-51A
	Plug, Right Angle	RG-178, 196	Gold	Crimp	Solder	ARF1236-ND	6.29	6.09	5.66	903-291P-51A1
	Plug, Right Angle	RG-178, 196	Nickel	Crimp	Solder	ARF1237-ND	4.89	4.27	3.96	903-368P-51A1
29	Bulkhead Jack	RG-174,188A, 316	Gold	Crimp	Solder	ARF1238-ND	6.51	5.21	4.53	903-505J-51S
	Bulkhead Jack	Dbl. Shield 316	Gold	Crimp	Solder	ARF1239-ND	7.74	6.18	5.38	903-505J-51S1

Fig.	Description	Plating	Digi-Key Part No.	Price Each			Amphenol RF Part No.
				1	10	25	
30	Bulkhead Receptacle, Front Mount Solder Cup Terminal	Gold	ARF1240-ND	6.06	4.86	4.21	903-406J-51R
31	Bulkhead Receptacle, Front Mount Blunt Post Terminal	Gold	ARF1241-ND	4.97	3.99	3.46	903-402J-51R
32	Bulkhead Receptacle, Slide-on, Board-to-Board, Blunt Post Terminal	Gold	ARF1719-ND	13.64	10.92	9.48	903-410P-53P
33	Bulkhead Jack, Receptacle Recessed, Solder Cup Term.	Gold	ARF1242-ND	38.48	30.78	24.83	903-407J-51R
34	Bulkhead Jack, Recept. End Mount, Blunt Post Term.	Gold	ARF1721-ND	9.96	8.94	7.98	903-518J-51P
35	Jack, Right Angle	Tin Lead (Body and Legs) Gold (Interface and Term.)	ARF1243-ND	7.07	5.66	4.92	903-373J-51A
36	Jack, Straight	Gold	ARF1244-ND	3.81	3.06	2.66	903-499J-51P2
	Jack, Straight PCB	Gold	ARF1720-ND	16.44	13.70	9.10	903-512J-71P
—	SMB/SMC Hex Nut	Gold	ARF1718-ND	2.07	1.73	1.15	903-10408-1

Amphenol®RF
Global RF Solutions

RF and RFX™ Connectors

Fig. 1

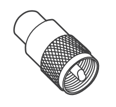

Fig. 2

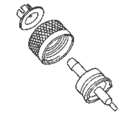

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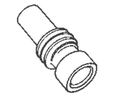

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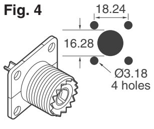

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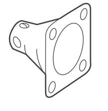

Fig. 6

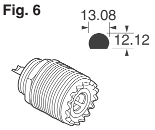

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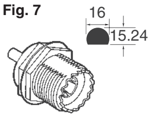

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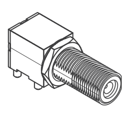

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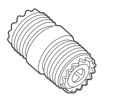

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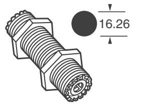

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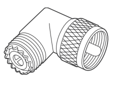

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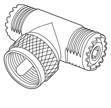

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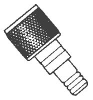

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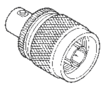

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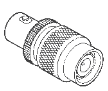

Fig. 16

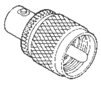

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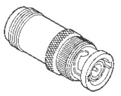

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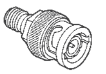

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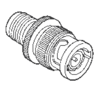

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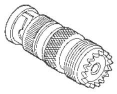

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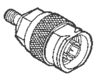

Fig. 22

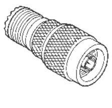

Fig. 23

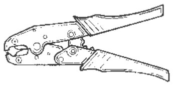

Fig. 24

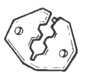

Fig. 25

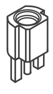

Fig. 26

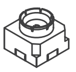

Fig. 27

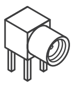

Fig. 28

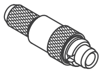

Fig. 29

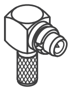

Fig. 30

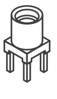

Fig. 31

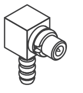

Fig. 32

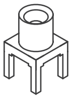

Fig. 33

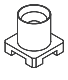

UHF Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Plug	8, 9, 11, 13, 63, 87A, 149, 213, 214, 216, 225	PL-259	ARF1714-ND◆	10.13	6.73	3.73	83-1SP
	Plug	8, 9, 87A, 214, 313, 225	PL-259/U	ARF1000-ND	5.80	3.87	2.96	83-1SP-1050
	Plug	8, 9, 87A, 214, 313, 225	—	ARFX1000-ND◆	3.76	2.58	1.79	83-1SP-15RFX
	Plug (TFE Insulated)	8, 9, 87A, 214, 313, 225	PL-259	ARF1001-ND◆	10.69	7.11	3.97	83-822
2	Plug (Crimp or Solder)	58, 141, 142	—	ARFX1002-ND◆†	4.59	3.17	2.17	83-58FCP-RFX
3	Reducing Adapter	58, 141, 142	UG-175	ARFX1003-ND◆†	.92	.64	.45	83-185-RFX
	Reducing Adapter	59, 62, 71, 140, 210	UG-176	ARFX1004-ND◆†	.68	.47	.34	83-168-RFX
4	Panel Receptacle	—	SO-239/U	ARF1005-ND◆	7.26	4.84	2.70	83-1R
	Panel Receptacle	—	SO-239	ARFX1005-ND◆	4.29	2.96	2.67	83-1R-RFX
	Panel Mount (TFE Insulated)	—	SO-239/A	ARF1168-ND◆	14.61	9.74	5.41	83-798
5	Panel Mount Hood	58, 141	UG-177	ARF1167-ND◆	7.38	6.15	4.09	83-765
6	Bulkhead Receptacle	—	—	ARF1006-ND◆	27.53	18.35	12.53	83-875-1002
7	Bulkhead Receptacle	—	—	ARF1007-ND	8.58	7.15	4.75	83-878
	Bulkhead Receptacle	—	—	ARFX1007-ND◆†	6.72	5.60	3.72	83-878-RFX
8	Bulkhead Receptacle, R/A	—	—	ARF1715-ND◆	6.81	5.68	3.77	531-40047-3
9	Straight/Jack-Jack	—	PL-258/U	ARF1008-ND◆	14.49	9.67	7.96	83-1J
10	Bulkhead/Jack-Jack	—	UG-363/U	ARF1009-ND◆	38.61	25.76	14.42	83-1F
11	Angle/Jack-Plug	—	UG-646/U	ARF1010-ND◆	22.58	15.06	9.48	83-1AP
12	Tee/Jack-Plug-Jack	—	M-358	ARF1011-ND	20.73	17.28	11.48	83-1T

◆ ***RoHS Compliant*** † RFX connectors. RFX is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX connectors are not for use in military system applications. RFX connectors are generally less expensive than MIL-Spec and industry standard connectors.

Mini UHF Connector

RoHS COMPLIANT

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
13	Plug (Crimp tools below)	58, 58A, 58C, 141, 303	ARF1092-ND	5.28	4.40	2.93	81-115N-1000

Between Series Adapters

Fig.	Description	Military Part No.	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
14	BNC Jack to N Plug	UG-201A/U	ARF1096-ND◆	18.32	12.24	8.06	31-216
	RFX - BNC Jack to N Plug	UG-201A/U	ARFX1096-ND◆	17.61	12.18	12.06	31-216-RFX
15	BNC Jack to TNC Plug	—	ARF1098-ND◆	38.01	31.68	21.04	79675
16	BNC Jack to UHF Plug	UG-273/U	ARF1099-ND◆	31.41	26.18	13.59	31-28
17	BNC Plug to N Jack	UG-349A/U	ARF1102-ND◆	21.86	14.58	10.55	31-217
	RFX - BNC Plug to N Jack	UG-349A/U	ARFX1102-ND◆	24.07	16.57	15.18	31-217-RFX
18	BNC Plug to SMA Jack	—	ARF1103-ND◆	85.73	57.24	37.70	901-165
19	BNC Plug to TNC Jack	—	ARF1104-ND◆	51.51	42.93	28.51	79025
20	BNC Plug to UHF Jack	UG-255/U	ARF1105-ND◆	30.17	20.15	13.26	2900
21	N Plug to SMA Jack	—	ARF1106-ND◆	128.88	86.07	65.12	901-294
22	N Plug to UHF Jack	UG-146/U	ARF1107-ND	28.21	18.85	13.48	4400

◆ ***RoHS Compliant***

ECONOHEX™ Crimp Tools and Dies

Fig.	Description	Digi-Key Part No.	Price Each	Amphenol RF Part No.
	CTL Series Crimp Tools (Die Set Included)			
23	Crimp Tool – RG 58, 59, 62, Plenum 59, 62	ARF1116-ND	58.92	CTL-1
	Crimp Tool – RG 174, Belden 8281	ARF1117-ND	58.92	CTL-2
	Crimp Tool – RG 58, 8, 213	ARF1118-ND	58.92	CTL-3
	Crimp Tool – RG 55, 58, 59, 62, 140, 141, 142, 210, 223, 303, 400, Plenum 59, 62	ARF1183-ND	58.92	CTL-5
	Crimp Tool and Dies			
23	Tool Handle without Dies	ARF1108-ND	108.15	227-987
24	Crimp Die Set – RG 174,179, 187, 188, 316	ARF1111-ND	67.48	227-1418

MMCX Connectors

Digi-Reel® RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
25	MicroMate™ Edgecard Jack, Vertical	ARF1723-ND	9.61	7.69	6.68	908-22100
26	MicroMate Jack, SMD, Straight	ARF1724-ND	5.21	4.16	3.63	908-22101
	MicroMate Jack, SMD, Straight	ARF1725CT-ND†	5.52	4.60	3.06	908-22101T
	MicroMate Jack, SMD, Straight	ARF1725TR-ND‡		3731.25/1,500		908-22101T
27	Right Angle PCB Mount Jack, Thru-Hole	ARF1726-ND	12.21	9.77	8.50	908-24100
28	MicroMate Straight Plug for RG-174, 188, 316	ARF1727-ND	13.23	11.03	7.33	908-41300
29	MicroMate Right Angle Plug for RG-174, 188, 316	ARF1728-ND	6.50	6.38	6.27	908-43300

† Cut Tape ‡ Tape and Reel

MMCX Connectors (Non-Magnetic)

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
27	Assembly Jack, Right Angle to PCB	ARF1740-ND ***NEW!***	21.63	18.03	11.97	908-NM24100
28	Assembly Plug, Straight, RG-178	ARF1738-ND ***NEW!***	20.67	17.23	11.44	908-NM41200
	Assembly Plug, Straight, RG-316	ARF1739-ND ***NEW!***	21.27	17.73	11.77	908-NM41300
30	Assembly Jack, Straight to PCB	ARF1729-ND	7.65	6.38	4.24	908-NM22106
31	Assembly Plug, Right Angle to RG-316	ARF1737-ND ***NEW!***	16.23	13.53	8.99	908-NM43300
	Assembly Plug, Right Angle, RG-178	ARF1730-ND	15.45	12.88	8.55	908-NM43200

MCX Connectors

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
32	Jack, Straight, PCB	ARF1731-ND	4.68	3.74	3.26	919-109J-51PX
33	Jack, Straight, SMD	ARF1732-ND	7.70	6.16	5.35	919-118J-51P

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AMP RF Connectors SMA/SMB Type

A9966-ND Hand Crimp Tool, without Dies **$2079.00**

Fig. 1
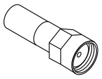

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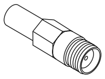

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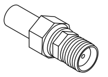

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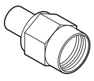

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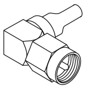

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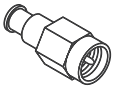

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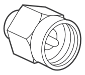

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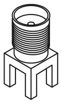

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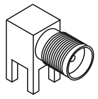

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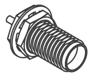

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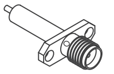

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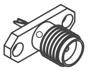

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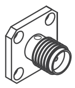

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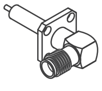

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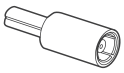

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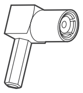

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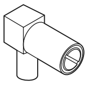
Zinc Die Cast

Fig. 18
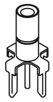

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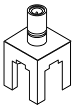

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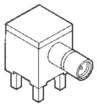

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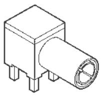

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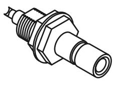
Front mount shown

Fig. 23
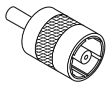

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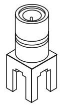

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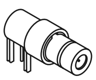

Fig.	Type (Description)	Cable Group RG/U	Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
	SMA Connectors						
1	Plug	142, 142A, 142B	Nickel	A4010-ND	7.33	6.30	447647-2
	Plug	142, 142A, 142B	Nickel	A32325-ND◆	6.33	5.44	5447647-2
	Plug	174, 174A, 188, 188A, 316	Nickel	A32326-ND◆	5.00	4.30	5447647-3
2	Jack, Hex Crimp	174, 188, 316	Nickel	A32327-ND◆	6.90	5.94	5447648-3
3	Bulkhead Jack	174, 188, 316	Nickel	A4009-ND	14.25	12.26	447650-3
	Bulkhead Jack	174, 188, 316	Nickel	A32332-ND◆	17.13	14.73	5447650-3
4	Plug, w/ Contact	405 Semi-Rigid	Steel	A4013-ND◆	15.43	13.27	228639-1
	Short Plug	405 Semi-Rigid	Steel	A24680-ND◆	13.08	11.25	221447-1
5	Right Angle Plug	405 Semi-Rigid	Steel	A24681-ND◆	47.20	40.60	228583-1
6	Solderless Plug	402 (.141)	Steel	A4014-ND◆	16.30	14.02	227743-1
	Solderless Plug	402 (.141)	Steel	A4015-ND◆	15.55	13.38	228634-1
	Solderless Plug	402 (.141)	Steel	A4017-ND◆	4.25	3.66	228635-1
7	Plug, Solder Attach.	402	Gold	A99399-ND◆	10.18	8.76	1050524-1
	Plug, Solder Attach.	405	Gold	A99400-ND◆	7.35	6.33	1050547-1
	Plug, Crimp Attach.	405	Steel	A99395-ND◆	19.85	17.08	1050611-1
	Plug, Solder Attach.	405	Gold	A99394-ND◆	9.13	7.85	1050735-1
	Cable Jack, Solder	405	Gold	A99401-ND◆	9.30	8.00	1050859-1
	Plug, Crimp Attach.	174, 188, 316	Gold	A99396-ND◆	10.88	9.36	1051654-1
	Plug w/ Collar	402 (.141)	Steel	A4018-ND◆	5.85	5.04	227531-5
	SMA Snap-Lock Connectors						
1	Straight Plug	316	Nickel	A36399-ND	10.95	9.42	1408541-1
–	Plug to SMA Jack	—	Nickel	A97718-ND	185.50	159.53	1053780-1
	SMA Crimp Connectors for Flexible Cables						
1	Plug, Length: 1.188"	174, 188, 188A, 316	Nickel	A24684-ND§	15.73	13.53	221117-2
	Plug, Length: 1.188"	174, 188, 188A, 316	Nickel	A32328-ND◆§	16.35	14.07	221117-4
	Plug, Passivated	187, 187B, Belden 922	Steel	A33770-ND◆§	17.40	14.97	5-225532-8
	Plug, Passivated	58, 58A, 58B, 58C	Steel	A24686-ND§	18.23	15.68	225532-1
	Plug, Passivated	223, 55, 55A, 55B	Steel	A24687-ND§	20.45	17.59	1-225532-0
	Plug, Passivated	142, 142A, 142B, 400, Belden 84142	Steel	A24688-ND§	18.15	15.61	225532-3
3	Bulkhead Jack	174, 188, 188A, 316	Steel	A24689-ND	44.20	38.02	225608-4
	Bulkhead Jack	174, 188, 188A, 316	Steel	A32321-ND◆	43.33	37.26	5225608-4
—	Adapter (Jack-Jack)	—	Steel	A24690-ND◆	20.95	18.02	221643-1
	Adapter (Jack-Jack)	—	Gold	A30048-ND◆	21.83	18.77	1054868-1
	Adapter (Jack-Jack)	—	Steel	A30049-ND◆	20.00	17.20	1054869-1
	Adapter (Plug-Plug)	—	Steel	A30044-ND◆	20.38	17.53	1053635-1
	Adapter (Plug-Plug)	—	Gold	A30045-ND◆	25.18	21.66	1053634-1
	SMA PC Board Connectors						
8	Vertical Jack	—	Brass/Gold	A24691-ND	8.90	7.66	221789-1
	Vertical Jack	—	Nickel	A99384-ND◆	18.83	16.19	6274096-1
	Vertical Jack	—	Gold/Gold	A30046-ND	13.08	11.25	1053354-1
9	Right Angle Jack	—	SS/Gold	A24692-ND	20.80	17.89	221790-1
	Right Angle Jack	—	Gold/Gold	A30047-ND	14.68	12.63	1053378-1
	Zinc Die Cast						
8	Vertical Jack	—	Gold/Gold	A97594-ND	2.70	2.33	5-1814832-1
9	Right Angle Jack	—	Gold/Gold over Nickel/ Copper	A97593-ND	3.15	2.71	5-1814400-1
	SMA Solder Type Connectors — RoHS Compliant						
10	Recept., Solder Pot	Coaxial	Gold	A99386-ND	10.15	8.73	1053072-1
	Recept., Solder Pot	Coaxial	Gold	A99385-ND	12.03	10.35	1053111-1
11	Recept., Flange Mt.	Coaxial	Gold	A99387-ND	9.60	8.26	1052551-1
	Recept., Flange Mt.	Coaxial	Gold	A99398-ND	7.73	6.65	1052552-1
12	Cable Jack, Solder	405	Gold	A99389-ND	19.70	16.95	1051046-1
	Recept., Flange Mt.	Coaxial	Gold	A99388-ND	10.75	9.25	1052533-1
13	Recept., Flange Mt.	Coaxial	Gold	A99391-ND	15.60	13.42	1052528-1
	Recept., Flange Mt.	Coaxial	Gold	A99392-ND	14.58	12.54	1052897-1
14	R/A Recept.	Coaxial	Gold	A99393-ND	30.68	26.39	1052978-1
—	R/A Plug-to-Jack Adapter	—	Steel	A99390-ND	29.03	24.97	1055065-1
	SMB Connectors – Center Contact: Gold						
	50 Ohm — RoHS Compliant						
15	Plug	178, 178A, 178B, 196, 196A	Nickel over Copper	A4021-ND‡§	6.58	5.66	413985-6
	Plug	174, 316, 188, 188A	Gold	A4026-ND‡§	7.25	6.24	413985-1
	Plug	174, 316, 188, 188A	Nickel over Copper	A4027-ND‡§	6.70	5.77	413985-3

Fig.	Type (Description)	Cable Group RG/U	Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
15	Plug	179, 179A, 179B, 161, 187, 187A, Belden 9221	Nickel over Copper	A4032-ND‡§	6.15	5.29	1-413985-1
	Plug	RG 316, 188 Double Braid	Gold	A4034-ND‡§	9.53	8.20	413985-2
	Plug	RG 316, 188 Double Braid	Nickel over Copper	A4035-ND‡§	10.00	8.60	413985-4
16	R/A Plug	178, 178A, 178B, 196, 196A	Nickel over Copper	A4023-ND‡§	8.20	7.06	414002-8
	R/A Plug	174, 316, 188, 188A, 179, 179A,179B, 161, 187, 187A, Belden 9221	Gold	A4028-ND‡§	9.53	8.20	414002-1
	R/A Plug	174, 316, 188, 188A, 179, 179A,179B, 161, 187, 187A, Belden 9221	Nickel over Copper	A4029-ND‡§	9.78	8.41	414002-3
	R/A Plug	RG 316, 188 Double Braid	Gold	A4036-ND‡§	10.88	9.36	414002-2
	R/A Plug	RG 316, 188 Double Braid	Nickel over Copper	A4037-ND‡§	12.68	10.91	414002-4
17	R/A Plug	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	Nickel over Copper	A32329-ND‡	5.18	4.46	5414363-3
	R/A Plug	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	Nickel over Copper	A32331-ND‡	5.05	4.35	5414363-5
	R/A Plug	RG 316, 188 Double Braid	Nickel over Copper	A32330-ND‡	4.03	3.47	5414363-4
18	Jack, Vertical	—	Nickel	A32320-ND	3.55	3.06	5221111-1
19	Jack, Vertical	—	Gold	A4041-ND§	5.28	4.54	413990-1
	Jack, Vertical	—	Nickel over Copper	A4042-ND§	4.10	3.53	413990-2
	Jack, Vertical	—	Gold	A99875-ND	5.75	4.95	413990-3
20	R/A Jack	—	Gold	A4043-ND§	22.53	19.38	413996-2
	R/A Jack w/ Standoff Pads	—	Gold	A24694-ND§	7.65	6.58	414026-2
	R/A Jack w/ Standoff Pads	—	Nickel	A4044-ND§	6.30	5.42	414026-3
	R/A Jack	—	Nickel	A32323-ND	5.18	4.46	5414337-1
	R/A Jack	—	Gold	A29351-ND	12.65	10.88	414963-1
21	R/A Plug	—	Tin over Copper	A32324-ND	9.23	7.94	414338-1
22	Recept., Solder Pot, Front Mt.	—	Nickel	A24695-ND§	11.65	10.02	228216-1
	Recept., Solder Pot, Rear Mt.	—	Nickel	A24696-ND§	24.13	20.75	228215-1
—	Adapter (Jack-Jack)	—	Nickel	A24697-ND§	7.95	6.84	228553-1
	75 Ohm						
16	R/A Plug	179, 179A, 179B, 161, 187, 187A, Belden 9221	Nickel	A24704-ND◆†	28.25	24.30	414048-6
23	Plug	179, 179A, 179B, 161, 187, 187A, Belden 9221	Nickel	A4040-ND◆†	11.70	10.07	414618-2
24	PC Mt. Jack, Vertical	—	Gold	A4047-ND◆§	7.35	6.33	414244-1
	PC Mt. Jack, Vertical	—	Tin-Lead	A4050-ND§	8.05	6.93	414244-4
	PC Mt. Jack, Vertical	—	Tin	A32322-ND◆§	6.38	5.49	5414244-4
25	R/A Jack	—	Nickel/Tin	A32319-ND◆	21.38	18.39	5221014-1
	Tools						
Crimp Tool, 50 Ohm, Hex/ Commercial w/ Die Set		174, 316, 188, 179, 161, 187,RG 316, 188 Double Braid	—	A9808-ND	156.78	—	58500-1
PRO CRIMPER™ II Hand Tool without Die, use w/ A9968-ND and A9809-ND		—	—	A9996-ND	45.36	—	354940-1
Die Set, Hex/Commercial, use with A9996-ND		174, 179, 187	—	A9809-ND	207.90	—	58489-1
Die Set, Mil Type Crimp, use with A9996-ND		—	—	A9968-ND	90.72	—	58483-1
Wrench Torque 5/16" for SMA		—	—	A99929-ND	276.42	—	1055419-1
	Die Set						
For use with A4012-ND, A4013-ND, and A24681-ND				A9964-ND	329.40	—	312253-2
For use with A4014-ND, A4015-ND, and A4017-ND				A9965-ND	636.00	—	312253-1
	Locator PlugΔ						
For use with A4012-ND, A4013-ND, A24681-ND, A4014-ND, and A4015-ND				A9961-ND	81.00	—	220221-2
For use with A4017-ND and A4018-ND				A9962-ND	88.00	—	220220-2

◆ ***RoHS Compliant*** § Mil Type ‡ Uses A9996-ND PRO-CRIMPER and A9968-ND Die
† Uses A9996-ND PRO-CRIMPER and A9809-ND Die Δ Must use a locator with die set.

UMCC — Ultraminiature Coax Connector and Cable Assembly Series

Features: • 360° mated rotation • Ultra low profile (2.0mm or 2.5mm maximum mated height) • Surface mount and reflow solderable • Style A receptacles mate with HIROSE U.FL/U.FL(v) series connectors • Style B receptacles mate with MURATA GSC series connectors

Specifications: • Characteristic Impedance: 50Ω • Frequency Range: DC ~ 6GHz • Durability: 30 cycles • Operating Temperature: -40°C ~ 90°C

Fig. 1

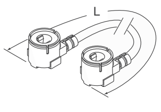

Fig. 2

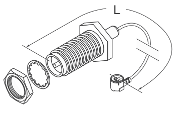

Fig. 3 — Receptacle – Style A

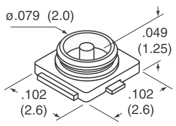

Fig. 4 — Receptacle – Style B

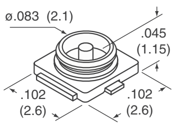

Fig.	Description	Dim. L (mm)	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1	Double Ended Cable Assembly, Type II	200	A36223-ND	4.00	3.44	3.04	2015698-3
	Double Ended Cable Assembly, Type III	100	A36224-ND	2.13	1.83	1.62	2015699-1
	Double Ended Cable Assembly, Type III	200	A36225-ND	4.08	3.51	3.10	2015699-2
	Double Ended Cable Assembly, Type III	200	A36227-ND	3.78	3.25	2.87	2015700-2
	Double Ended Cable Assembly, Type III	100	A36228-ND	1.93	1.66	1.47	2015357-3
	Double Ended Cable Assembly, Type III	200	A36229-ND	2.05	1.77	1.56	2015357-4
2	UMCC Plug ~ SMA Plug, Type III	200	A36231-ND	11.33	9.74	8.61	2032439-1
	UMCC Plug ~ SMA Bulkhead Jack, Type III	200	A36232-ND	9.35	8.05	7.11	2032440-1
	UMCC Plug ~ MCX Right Angle Plug, Type II	200	A36233-ND	23.28	20.02	17.69	2032441-1
	UMCC Plug ~ MCX Right Angle Plug, Type III	200	A36234-ND	15.58	13.40	11.84	2032442-1
	UMCC Plug ~ MMCX Right Angle Plug, Type II	200	A36235-ND	19.83	17.05	15.07	2032443-1
	UMCC Plug ~ MMCX Right Angle Plug, Type III	200	A36236-ND	14.25	12.26	10.83	2032444-1
	UMCC Plug ~ RPSMA Bulkhead Jack, Type III	200	A99695-ND	25.33	21.78	19.25	2032445-1
3	UMCC Receptacle ~ Style A, Type II/III, SMD	—	A36237CT-ND†	1.09	.70	.62	1566230-1
	UMCC Receptacle ~ Style A, Type II/III, SMD	—	A36237TR-ND‡	1085.00/2,500			1566230-1
4	UMCC Receptacle ~ Style B, Type I, SMD	—	A36238CT-ND†	1.40	.90	.80	1775146-1
—	UMCC Plug ~ SMA Jack Adapter, Type I	—	A36239-ND	53.35	45.89	40.55	1775229-1
	UMCC Plug ~ SMA Jack Adapter, Type II/III	—	A36240-ND	53.35	45.89	40.55	1775230-1
	UMCC Jack Receptacle ~ SMA Plug Adapter, Type II/III	—	A36242-ND	53.35	45.89	40.55	1775227-1
	Extraction Tool	—	A36243-ND	2.00	1.72	1.52	1775231-1

† Cut Tape ‡ Tape and Reel

BNC Coaxial Connectors Dual Crimp

MIL-C-39012 Class II - Cat. B

Fig. 1

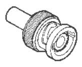

Fig. 2

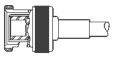

Fig. 3

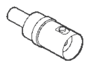

Fig. 4

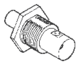

Fig.	Descrip-tion	Center Contact	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.	Premium SDE Die Set†	Commercial Die Set†
1	Plug	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32211-ND◆	5.38	4.63	5225395-7	A30571-ND	—
		Gold	Nickel	Polyethylene	174, 188, 188A, 316	A32212-ND◆	3.10	2.67	1-5227079-6	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24425-ND	8.48	7.29	2-331350-4	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A33771-ND◆	9.10	7.83	8-331350-0	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32213-ND◆	5.53	4.76	5225395-8	A30571-ND	—
		Tin	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32214-ND◆	4.00	3.44	2-5227079-0	A30571-ND	A24780-ND
		Gold	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32215-ND◆	3.50	3.01	2-5227079-2	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A24429-ND	8.83	7.59	2-331350-5	A30571-ND	—
		Gold	Silver	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A33772-ND◆	9.38	8.07	9-331350-3	A30571-ND	—
		Gold	Nickel	Polyethylene	RG 316, 188 Double Braid	A32216-ND◆	5.68	4.89	8-5227079-2	—	A24779-ND
		Gold	Silver	TEFLON	180, 180A, 180B, 195, 195A	A24434-ND	9.45	8.13	2-331350-6	A29143-ND	—
		Gold	Nickel	Polyethylene	Belden 9907, RG-141	A32217-ND◆	4.00	3.44	6-5227079-7	A24778-ND	A24570-ND
		Gold	Nickel	Polyethylene	Belden 89907	A32218-ND◆	20.95	18.02	6-5227079-8	—	A24781-ND
		Gold	Nickel	TEFLON	Beldon 8218	A32219-ND◆	5.98	5.14	1-5225395-0	A29143-ND	—
		Gold	Nickel	Polyethylene	Beldon 8218	A32220-ND◆	3.88	3.34	1-5227079-9	—	A24779-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32205-ND◆	6.35	5.47	5225395-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32206-ND◆	6.10	5.25	5225395-2	A24776-ND	—
2	Plug	Gold	Nickel	Polyethylene	58, 58A, 58B, 58C	A32209-ND◆	3.90	3.36	5227079-5	A24778-ND	A24570-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A1118-ND	4.45	3.83	227079-9	A24778-ND	A24570-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A33773-ND◆	3.68	3.17	5227079-9	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24440-ND	8.95	7.70	2-331350-1	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A32221-ND◆	20.78	17.87	4-5227079-3	—	A24781-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32222-ND◆	6.15	5.29	5225395-3	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	55, 55A, 55B, 223	A32223-ND◆	4.03	3.47	5227079-6	A24778-ND	A24570-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32224-ND◆	6.60	5.68	5225395-6	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	142, 142A, 142B, 400	A32225-ND◆	4.20	3.62	6-5227079-1	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24448-ND	7.50	6.45	2-331350-9	—	A24777-ND
		Gold	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32210-ND◆	3.73	3.21	5227079-7	—	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A1121-ND	3.05	2.63	1-227079-1	—	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B	A33774-ND◆	3.05	2.63	1-5227079-1	—	A24570-ND
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24449-ND	6.95	5.98	331350	A24776-ND	—
		Gold	Nickel	TEFLON	Belden 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59	A32226-ND◆	6.15	5.29	2-5225395-0	A24776-ND	—
3	Cable Jack	Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32207-ND◆	7.45	6.41	5225396-1	A24571-ND	A24777-ND
	Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32227-ND◆	6.43	5.53	5225396-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32228-ND◆	3.28	2.82	5228979-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24462-ND	11.20	9.64	2-331351-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32229-ND◆	3.05	2.63	5228979-6	A24775-ND	A24570-ND
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24464-ND	15.13	13.01	331351	A24776-ND	—
4	Bulkhead Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32230-ND◆	7.88	6.78	5225398-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32231-ND◆	4.08	3.51	5228980-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24467-ND	10.85	9.34	1-331693-2	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A33777-ND◆	10.85	9.34	6-331693-2	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32232-ND◆	7.85	6.76	5225398-8	A30571-ND	—
		Gold	Nickel	TEFLON	Times RD316	A32233-ND◆	10.25	8.82	1-5225398-5	A29143-ND	—
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32208-ND◆	10.43	8.97	5225398-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	58, 58A, 58B, 58C	A32234-ND◆	4.13	3.55	5228980-5	A24778-ND	A24570-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32235-ND◆	10.50	9.03	5225398-3	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32236-ND◆	10.50	9.03	5225398-6	A24571-ND	A24777-ND
	Right Plug	Gold	Silver	TEFLON	58, 58A, 58B, 58C	A32237-ND◆	36.70	31.57	5225973-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32238-ND◆	33.40	28.73	5225974-1	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A32239-ND◆	37.28	32.06	5225973-4	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32240-ND◆	32.73	28.15	5225974-5	A24476-ND	—
Panel Insulation Bushings for Bulkhead Jacks (2 required)						A24479-ND◆	.72	.62	330620	—	—
BNC Premises Wire Kit						A9822-ND	180.39	—	58477-1	—	—

◆ ***RoHS Compliant*** † Use with A9996-ND

Fig. 1
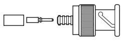

Fig. 2
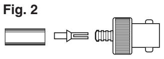

Fig. 3
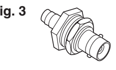

Fig. 4
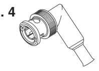

Fig. 5
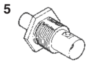

BNC Hex Crimp Connectors 50 Ohm

Collar and Outer Contacts: Nickel Plated **Center Contact:** Gold, MIL-G-45204

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.	Die for Hand Tools	Price Each
1	Plug	Nickel	Polymethylpentene	174, 188, 188A, 316	A32352-ND	3.85	3.32	2-5221128-1	A9995-ND	90.72
	Plug	Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, Belden 9221	A32353-ND	4.48	3.85	2-5221128-3	A9995-ND	90.72
	Plug	Nickel	Polymethylpentene	Belden 9907, 89907, Commercial/Scope 2104	A32354-ND	4.48	3.85	2-5221128-7	A9994-ND	90.72
	Plug	Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, Berk-Tek, BTDC-58, Commercial/Scope 2135	A32350-ND	4.35	3.75	1-5221128-0	A9994-ND	90.72
	Plug	Nickel	Polymethylpentene	140, 210, 62, 62A, 62B, 59, 59A, 59B, 302, Belden 9291, 9209, 9269, 89269, 88241, Hi- Temp, 62A,Times PL-62, Berk-Tek BTDC-59, BTDC-62, 124	A32351-ND	4.18	3.60	1-5221128-1	A9994-ND	90.72
	Plug	Nickel	Polypropylene	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A32333-ND	4.05	3.49	1-5221128-7	A9994-ND	90.72
	Plug	Nickel	Polypropylene	174, 188, 188A, 316	A32358-ND	4.13	3.55	5413779-3	A9995-ND	90.72
2	Cable Jack	Nickel	Polymethylpentene	179, 179A, 197B, 161, 187, 187A, Belden 9221	A33778-ND	3.45	2.97	5413779-4	A9995-ND	90.72
	Cable Jack	Nickel	Polymethylpentene	174, 188, 188A, 316	A32345-ND	4.53	3.90	5413771-3	A9995-ND	90.72
3	Bulkhead	Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, BerkTek BTDC-58, Commercial/Scope 2135	A32357-ND	4.40	3.79	5413771-1	A9994-ND	90.72
4	Plug Right Angle	Nickel	Polymethylpentene	174, 188, 188A, 316	A32360-ND	12.28	10.56	5413959-3	A9995-ND	90.72
	Plug Right Angle	Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A32346-ND	12.23	10.52	5413959-4	A9995-ND	90.72
	Plug Right Angle	Nickel	Polymethylpentene	Belden 89907, 9907, Commercial/Scope 3104, 2104	A32347-ND	12.08	10.39	5413959-6	A9994-ND	90.72
	Plug Right Angle	Nickel	Polymethylpentene	58, 58A, 58B, 58C	A32359-ND	12.13	10.43	5413959-1	A9994-ND	90.72
Zinc Die Cast										
1	Plug	Nickel	Polymethylpentene	174A, 188A, 316, KX22A, KX3B, URM95	A97578-ND	2.50	2.15	5-1634500-0	A97886-ND	207.90
5	Bulkhead Jack	Nickel	Polyphthalamide	141A, 58C, Belden 9907, KX15, URM43, URM76	A97579-ND	1.75	1.51	5-1634500-3	A97886-ND	207.90
	Bulkhead Jack	Nickel	Polyphthalamide	58C, 141A, URM43, URM76, Belden 9907, KX15	A97573-ND	3.98	3.42	5-1634516-1	A97886-ND	207.90

BNC Single Crimp Connectors 50 Ohm

Center Contact: Gold, MIL Type

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.	Die for Hand Tools	Price Each
1	Plug	Silver	TEFLON	178, 178A, 178B, 196, 196A	A24401-ND	16.25	13.98	330876	—	—
	Plug	Silver	TEFLON	178, 178A, 178B, 196, 196A	A33779-ND◆	16.55	14.24	5330876	—	—
	Plug	Silver	Polypropylene	174, 188, 188A, 316	A24403-ND	21.55	18.54	2-330058-1	A31885-ND	501.42
	Plug	Silver	Polypropylene	174, 188, 188A, 316	A33780-ND◆	18.68	16.07	2-5330058-1	A31885-ND	501.42
	Plug	Silver	TEFLON	174, 188, 188A, 316	A24404-ND	15.10	12.99	2-330061-1	A31885-ND	501.42
	Plug	Silver	TEFLON	174, 188, 188A, 316	A33781-ND◆	15.08	12.97	2-5330061-1	A31885-ND	501.42
	Plug	Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24405-ND	17.43	14.99	2-329446-1	A31885-ND	501.42
	Plug	Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A33782-ND◆	15.88	13.66	2-5329446-1	A31885-ND	501.42
	Plug	Silver	Polypropylene	58, 58A, 58B, 58C	A32355-ND◆	20.60	17.72	2-5329082-1	A31207-ND	351.00
	Plug	Silver	TEFLON	58, 58A, 58B, 58C	A24407-ND	20.95	18.02	2-329444-1	A31207-ND	351.00
	Plug	Silver	TEFLON	58, 58A, 58B, 58C	A33783-ND◆	20.38	17.53	2-5329444-1	A31207-ND	351.00
	Plug	Silver	TEFLON	223, 55, 55A, 55B	A24409-ND	13.13	11.29	2-329444-2	—	—
	Plug	Silver	TEFLON	223, 55, 55A, 55B	A33784-ND◆	13.10	11.27	2-5329444-2	—	—
	Plug	Silver	TEFLON	142, 142A, 142B, 400	A24410-ND	12.88	11.08	2-330358-2	—	—
	Plug	Silver	TEFLON	142, 142A, 142B, 400	A33785-ND◆	12.93	11.12	2-5330358-2	—	—
	Plug	Silver	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32356-ND◆	16.38	14.09	2-5329083-1	A9970-ND	297.00
	Plug	Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24412-ND	16.45	14.15	2-329445-1	A9970-ND	297.00
2	Cable Jack	Nickel	TEFLON	174, 188, 188A, 316	A24413-ND	30.10	25.89	2-330062-1	A31885-ND	501.42
	Cable Jack	Nickel	TEFLON	174, 188, 188A, 316	A33787-ND◆	29.38	25.27	2-5330062-1	A31885-ND	501.42
	Cable Jack	Silver	TEFLON	142, 142A, 142B	A24415-ND	52.25	44.94	2-329452-2	—	—
	Cable Jack	Silver	TEFLON	142, 142A, 142B	A33788-ND◆	51.08	43.93	2-5329452-2	—	—
4	Plug, Right Angle	Silver	TEFLON	58, 58A, 58B, 58C	A24420-ND	77.18	66.38	331175	A31207-ND	351.00
	Plug, Right Angle	Silver	TEFLON	58, 58A, 58B, 58C	A33789-ND◆	79.53	68.40	5331175	A31207-ND	351.00
5	Bulkhead Jack	Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A33791-ND◆	19.20	16.52	2-5329458-1	A31885-ND	501.42
	Bulkhead Jack	Silver	TEFLON	58, 58A, 58B, 58C	A24418-ND	44.90	38.62	2-329456-1	A31207-ND	351.00

◆ ***RoHS Compliant***

Bulkhead Solder Jacks Connectors 50 Ohm

Fig. 1
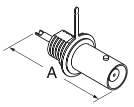

With Solder Terminal Shown

Fig. 2
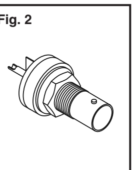

Fig. 3
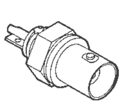

Fig. 4
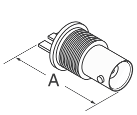

Fig.	Description	Dielectric	Dimension A Inch (mm)	Contact Material	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
1	Without Solder Terminal‡	VALOX	1.060 (26.93)	Silver	Nickel	A24520-ND	3.20	2.76	227754-3
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Silver	Nickel	A33792-ND◆	2.93	2.52	5227754-3
	With Solder Terminal◊	VALOX	1.060 (26.93)	Silver	Nickel	A32344-ND◆	2.78	2.39	5227755-3
	With Solder Terminal◊	VALOX	1.312 (33.33)	Gold	Nickel	A24522-ND	3.00	2.58	227169-7
	With Solder Terminal◊	VALOX	1.312 (33.33)	Gold	Nickel	A32334-ND◆	2.95	2.54	5227169-7
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Gold	Nickel	A32342-ND◆	2.55	2.20	5227754-2
	With Solder Terminal◊	VALOX	1.060 (26.93)	Gold	Nickel	A32343-ND◆	2.70	2.33	5227755-2
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A30562-ND	2.25	1.94	227754-1
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A33793-ND◆	2.20	1.90	5227754-1
	With Solder Terminal◊	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A30563-ND	2.10	1.81	227755-1
	With Solder Terminal◊	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A33794-ND◆	2.35	2.03	5227755-1
	With Solder Terminal◊	VALOX	1.312 (33.33)	Tin-Lead	Nickel	A33795-ND◆†	2.60	2.24	5227169-5
	With Solder Terminal◊	TEFLON	1.312 (33.33)	Gold	Nickel	A24525-ND	4.83	4.15	227169-8
	With Solder Terminal◊	TEFLON	1.312 (33.33)	Gold	Nickel	A32335-ND◆	3.48	2.99	5227169-8
	Without Solder Terminal‡	TEFLON	1.060 (26.93)	Gold	Nickel	A32337-ND◆	3.13	2.69	5227715-3
	With Solder Terminal◊	TEFLON	1.060 (26.93)	Gold	Nickel	A32338-ND◆	3.38	2.91	5227716-3
—	Lock Washer with Solder Lug	—	—	—	Tin/Lead	A33796-ND◆	.55	.48	9-227260-0
2	Sealed	Polymethylpentene	—	Gold	Nickel	A24528-ND	7.20	6.20	227426-1
	Sealed	Polymethylpentene	—	Gold	Nickel	A32336-ND◆	7.13	6.13	5227426-1
3	Isolated	VALOX, White	—	Tin	Nickel	A32339-ND◆	3.05	2.63	5227726-1
	Isolated	VALOX, White	—	Silver	Nickel	A24530-ND	3.38	2.91	227726-2
	Isolated	VALOX, White	—	Silver	Nickel	A32340-ND◆	2.98	2.56	5227726-2
	Isolated	VALOX, White	—	Gold	Nickel	A32341-ND◆	3.28	2.82	5227726-3
Zinc Die Cast — RoHS Compliant									
1	Solder Tag‡	Polymethylpentene	1.074 (27.30)	Gold	Nickel	A97548-ND	2.03	1.75	5-1634523-1
	With Solder Terminal‡	Polyester, PBT	1.059 (26.90)	Gold	Nickel	A97550-ND	3.98	3.42	5-1634504-1
4	Edge Mount	Polymethylpentene	0.956 (24.28)	Gold	Nickel	A97549-ND	4.53	3.90	5-1634521-1

◆ ***RoHS Compliant*** ‡ Includes lockwasher and jam nut ◊ Includes solder terminal and jam nut † This part may be used with a panel thickness of 0.046-0.250 inches

BNC Field Serviceable Plug Connectors

50 Ohm

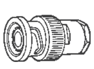

Center Contact: Gold

Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
Silver	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24480-ND	25.25	21.72	221265-1
Nickel	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24481-ND◆	21.93	18.86	1-221265-0
	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269, 89269, 88241 Hi-Temp 62A, Times PL-62, Berk-Tek, BTDC-59, BTDC-62, 302, 71, 71A, 71B	A24482-ND◆	28.25	24.30	1-221265-1

◆ ***RoHS Compliant***

BNC PC Board/Panel Mount Jack Connectors with Mounting Flanges

50 Ohm

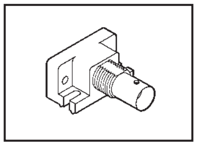

Hardware Sold Separately

Description	Center Contact	Mount. Height Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Right Angle	Tin	.625 (15.88)	VALOX, White	A32242-ND	6.75	5.81	5226978-1
Right Angle	Gold	.625 (15.88)	VALOX, White	A32252-ND	6.83	5.87	5226978-3

BNC PC Board/Panel Mount Right Angle Jack Connectors

50 Ohm

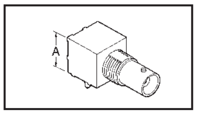

Hardware Sold Separately

Description	Center Contact	Mount. Height A Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Without Mounting Posts	Tin	.625 (15.88)	VALOX, White	A32253-ND	3.10	2.67	5226990-1
With Mounting Posts	Tin	.625 (15.88)	VALOX, White	A32244-ND	2.95	2.54	5227161-1
Without Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32254-ND	2.50	2.15	5226990-3
With Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32258-ND	3.08	2.65	5227161-3
With Mounting Posts	Gold	.519 (13.18)	VALOX, White	A32260-ND	2.85	2.46	5227161-7
With Mounting Posts	Tin	.625 (15.88)	VALOX, Black	A32245-ND	2.73	2.35	5227161-2
Without Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32255-ND	2.63	2.27	5226990-6
With Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32259-ND	2.90	2.50	5227161-6
With Mounting Posts	Gold	.519 (13.18)	VALOX, Black	A32261-ND	2.83	2.43	5227161-9
Without Mounting Posts	Tin	.625 (15.88)	Metal	A32264-ND	6.85	5.90	5227433-1
With Mounting Posts	Tin	.625 (15.88)	Metal	A32248-ND	3.68	3.17	5227661-1
Without Mounting Posts	Gold	.625 (15.88)	Metal	A32267-ND	3.08	2.65	5227676-1
With Mounting Posts	Gold	.625 (15.88)	Metal	A32268-ND	4.45	3.83	5227677-1
With Mounting Posts	Gold	.500 (12.70)	Metal	A32273-ND	6.75	5.81	5413879-1
Zinc Die Cast							
With Mounting Posts	Gold	.518 (13.16)	Zinc, White	A97552-ND	2.58	2.22	1-1337542-0
With Mounting Posts	Gold	.622 (15.80)	Zinc, White	A97553-ND	2.30	1.98	1-1337543-0
With Mounting Posts	Gold	.518 (13.16)	Zinc, Black	A97554-ND	2.78	2.39	1-1634613-0
With Mounting Posts	Gold	.622 (15.80)	Zinc, Black	A97555-ND	2.30	1.98	1-1634612-0
With Mounting Posts	Gold	.598 (15.20)	Zinc	A97556-ND	3.60	3.10	1-1337494-0

BNC PC Board/Panel Mount Vertical Jack Connectors

50 Ohm

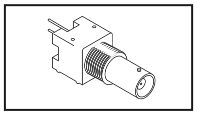

Hardware Sold Separately

Description	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Without Mounting Posts	Tin-Lead	VALOX, White	A24501-ND	6.28	5.40	226993-1
Without Mounting Posts	Tin	VALOX, White	A32256-ND◆	6.75	5.81	5226993-1
With Mounting Posts	Tin	VALOX, White	A32246-ND◆	2.67	2.30	5227222-1
Without Mounting Posts	Gold	VALOX, White	A32257-ND◆	7.13	6.13	5226993-3
With Mounting Posts	Gold	VALOX, White	A32262-ND◆	2.90	2.50	5227222-3
Without Mounting Posts	Tin	VALOX, Black	A32243-ND◆	8.20	7.06	5226993-2
With Mounting Posts	Tin	VALOX, Black	A32247-ND◆	3.10	2.67	5227222-2
With Mounting Posts	Gold	VALOX, Black	A32263-ND◆	3.18	2.74	5227222-6
With Mounting Posts	Tin	Metal	A32265-ND◆	3.10	2.67	5227671-1
With Mounting Posts	Gold	Metal	A32266-ND◆	3.13	2.69	5227673-1
Zinc Die Cast — RoHS Compliant						
With Mounting Posts	Gold	Zinc, White	A97557-ND	2.13	1.83	1-1337541-0
With Mounting Posts	Gold	Zinc, Black	A97558-ND	2.23	1.92	1-1634505-0

◆ ***RoHS Compliant***

Jack Accessories 50 and 75 Ohm

Description	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Insulating Bushing for Mounting Jacks, Nylon	A24532-ND◆	.44	.39	222163-1
Insulating Bushing for Bulkhead Solder Jacks	A24533-ND◆	.24	.21	227223-1
Screw for panel thickness of 3/32 (2.38mm) or greater	A24534-ND	.38	.33	221108-2
Screw for panel thickness of less than 3/32 (2.38mm)	A24535-ND	.25	.22	221108-4
Lockwasher	A1129-ND◆	.22	.20	1-329632-2
Hex Nut	A1128-ND◆	.23	.21	1-329631-2
Zinc Die Cast — RoHS Compliant				
BNC/TNC Hexagonal Nut	A97566-ND	.64	.56	1-1634816-0
BNC/TNC Lockwasher	A97567-ND	.28	.25	1-1634817-0

◆ ***RoHS Compliant***

BNC Vertical Metallized PC Board Mount Jack Connectors 50 Ohm

Fig. 1

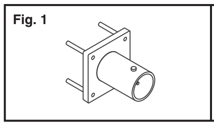

Fig. 2

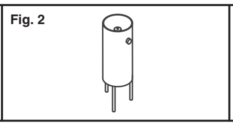

Fig. 3

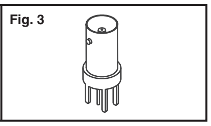

Fig.	Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Nickel	Silver	VALOX	A24512-ND	3.93	3.38	227699-1
	Nickel	Silver	VALOX	A33798-ND◆	3.40	2.93	5227699-1
	Nickel	Gold	VALOX	A32269-ND◆	4.40	3.79	5227699-2
	Nickel	Tin	VALOX	A32249-ND◆	3.68	3.17	5227699-3
2	Nickel	Gold	VALOX	A32241-ND◆	4.05	3.49	5221123-2
3	Nickel	Silver	VALOX	A24516-ND	9.65	8.30	222420-1
	Nickel	Silver	VALOX	A32251-ND◆	6.63	5.70	5222420-1
	Tin-Lead	Silver	VALOX	A24517-ND	3.73	3.21	414305-1
	Tin	Silver	VALOX	A32493-ND◆	4.58	3.94	5414305-1
Zinc Die Cast — RoHS Compliant							
3	Nickel	Gold	Zinc	A97581-ND	1.50	1.29	5-1634503-1
	Nickel	Gold	Zinc	A97583-ND	2.03	1.75	5-1634506-1

◆ ***RoHS Compliant***

BNC Press-Fit Terminal Jack Connectors

50 Ohm

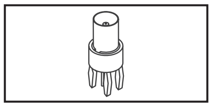

Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Nickel	Gold	TEFLON	A32250-ND	4.93	4.24	5222006-1

BNC Right-Angle PC Board Mount Jack Connectors

Fig. 1

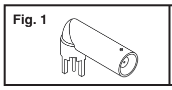

Fig. 2

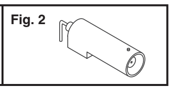

Fig.	Body Plating	Center Contact Length - In (mm)	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Nickel	.171 (4.34)	A32270-ND◆	7.03	6.05	5413631-1
	Tin	.171 (4.34)	A32271-ND◆	6.88	5.92	5413631-2
	Nickel	.131 (3.33)	A32272-ND◆	26.03	22.39	5413631-3
	Nickel	.131 (3.33)	A97570-ND◆†	3.50	3.01	5-1634556-0
2	Nickel	—	A24539-ND	4.05	3.49	414373-1
	Nickel	—	A32274-ND◆	2.83	2.43	5414373-1

◆ ***RoHS Compliant*** † Zinc Die Cast

BNC Twist-On Connectors

50 Ohm

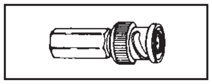

Center Contact: Gold **Body Plating:** Nickel

Description	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Plug	Polymethylpentene	59, 59A, 59B	A24483-ND	3.05	2.63	414265-3
Plug	Polymethylpentene	59, 59A, 59B	A33797-ND◆	35.68	30.69	5414265-3

◆ ***RoHS Compliant***

BNC Dual Crimp Connectors 75 Ohm

Body Plating: Nickel **Center Contacts:** Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each		Tyco Electronics Part No.	Dies for Pro-Crimper	Price Each
				1	25			
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32275-ND	3.40	2.93	5221185-8	A24630-ND	267.30
	Plug	AT&T 735A	A32276-ND	4.15	3.57	1-5221185-8	A24632-ND	351.00
	Plug	Belden 8218	A32277-ND	3.88	3.34	5221185-3	A24632-ND	351.00
	Plug	Belden 1164A, 1167A	A33805-ND	4.10	3.53	1-5221185-5	A24632-ND	351.00
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32278-ND	3.45	2.97	5221185-2	A24597-ND	351.00
	Plug	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32279-ND	3.95	3.40	5221185-9	A24597-ND	351.00
	Plug	Belden 9145, AT&T 734A	A32280-ND	3.58	3.08	1-5221185-0	A24597-ND	351.00
	Plug	Belden 9248, 9114	A32281-ND	5.15	4.43	5221185-1	—	—
	Plug	6, 6A (RG-6)	A32282-ND†	6.20	5.34	5221185-7	A24631-ND	351.00
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A32283-ND	4.43	3.81	5221185-5	A24631-ND	351.00
2	Right Angle Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32284-ND	11.38	9.79	5221402-2	A24597-ND	351.00
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32285-ND	4.65	4.00	5221199-5	A24630-ND	267.30
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32286-ND	6.48	5.57	5221221-5	A24630-ND	267.30

† 20 AWG Center Conductor Max

BNC Hex Crimp Connectors 75 Ohm

Collar and Outer Contacts: Nickel Plated **Center Contacts:** Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each		Tyco Electronics Part No.	Dies for Hand Tools	Price Each
				1	25			
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32287-ND◆	4.05	3.49	5413589-8	A9993-ND	90.72
	Plug	AT&T 735A	A32288-ND◆	9.10	7.83	1-5413589-0	A9992-ND	90.72
	Plug	Belden 8218	A33806-ND◆	3.78	3.25	5413589-3	—	—
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32289-ND◆	4.30	3.70	5413589-2	A9992-ND	90.72
	Plug	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62	A33807-ND◆	4.73	4.07	5413589-1	A9992-ND	90.72
	Plug	Belden 8212, 9104, 9112, 9167, 9240, 9259, 9266,	A1829-ND	4.50	3.87	413589-9	A9992-ND	90.72
	Plug	Times FM-59, (RG-59 Type with 20 AWG C.C.)	A33808-ND◆	4.48	3.85	5413589-9	A9992-ND	90.72
	Plug	Belden 9145, AT&T 734A	A1827-ND	4.28	3.68	413589-7	A9992-ND	90.72
	Plug	Belden 9145, AT&T 734A	A33809-ND◆	4.18	3.60	5413589-7	A9992-ND	90.72
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A33810-ND◆	4.50	3.87	5413589-5	—	—
2	Plug, Right Angle	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1873-ND	17.05	14.67	413588-8	A9993-ND	90.72
	Plug, Right Angle	179, 179A, 179B, 187, 187A, 161, Belden 9221	A33811-ND◆	16.38	14.09	5413588-8	A9993-ND	90.72
	Plug, Right Angle	AT&T 735A	A32290-ND◆	16.73	14.39	1-5413588-0	—	—
	Plug, Right Angle	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1872-ND	14.25	12.26	413588-2	—	—
	Plug, Right Angle	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32291-ND◆	13.65	11.74	5413588-2	—	—
	Plug, Right Angle	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32292-ND◆	13.85	11.92	5413588-9	A9992-ND	90.72
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32293-ND◆	4.10	3.53	5413760-8	A9993-ND	90.72
	Jack	Belden 8218	A32294-ND◆	4.63	3.98	5413760-3	A9992-ND	90.72
	Jack	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32295-ND◆	6.50	5.59	5413760-9	A9992-ND	90.72
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1848-ND	5.03	4.33	413590-8	A9993-ND	90.72
	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A33813-ND◆	6.15	5.29	5413590-8	A9993-ND	90.72
	Bulkhead Jack	AT&T KS 19224 L2	A32296-ND◆	10.18	8.76	5413590-4	A9993-ND	90.72
	Bulkhead Jack	Belden 8218	A1843-ND	3.50	3.01	413590-3	A9992-ND	90.72
	Bulkhead Jack	Belden 8218	A33814-ND◆	7.18	6.18	5413590-3	A9992-ND	90.72
Zinc Die Cast — RoHS Compliant								
1	Plug	140, 210, 59B, 62A, KX25, KX52, KX53, KX6A, URM90	A97580-ND	1.85	1.60	5-1634502-3	A97886-ND	207.90
3	Straight Jack	140, 210, 59B, 62A, KX25, KX52, KX53, KX6A, URM90	A97577-ND	2.68	2.31	5-1634514-0	A97886-ND	207.90
	Straight Jack	174A, 188A, 316, KX22A, KX3B, URM95	A97576-ND	2.68	2.31	5-1634511-2	A97886-ND	207.90
	Bulkhead Jack	59B, 62A, 140, 210, URM90, KX6A, KX25, KX52, KX53	A97574-ND	4.43	3.81	5-1634516-5	A97886-ND	207.90

◆ *RoHS Compliant*

Fig. 1

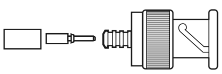

Fig. 2

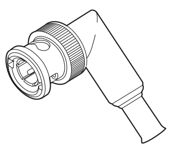

Fig. 3

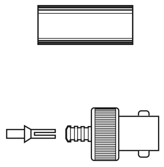

Fig. 4

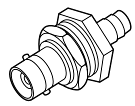

BNC PC Board/Panel Mount Jack Connectors

75 Ohm

Hardware not included

Fig. 1

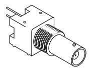

Fig. 2

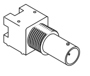

Fig.	Description	Contact Finish	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
				1	25	
1	Vertical, Metal	Gold 30μ	A32401-ND	9.93	8.54	5222132-1
2	Right Angle, VALOX, White	Gold 30μ	A32402-ND	7.78	6.69	5413194-1
	Right Angle, VALOX, Black	Gold 30μ	A32403-ND	7.50	6.45	5413194-2
	Right Angle, VALOX, White	Gold 50μ	A32404-ND	7.78	6.69	5414459-1
	Right Angle, Metal	Gold 30μ	A32405-ND	7.03	6.05	5222092-1
	Right Angle, Nickel	Gold 30μ	A33816-ND	7.55	6.50	5414907-1
Zinc Die Cast						
1	Vertical, Nickel	Gold	A97564-ND	2.58	2.22	1-1478033-0
	Vertical, Nickel	Gold	A97565-ND	2.68	2.31	1-1634629-0
2	Right Angle, Nickel	Gold	A97559-ND	2.68	2.31	1-1478031-0
	Right Angle, Nickel	Gold	A97560-ND	2.40	2.07	1-1478032-0
	Right Angle, Nickel	Gold	A97561-ND	2.68	2.31	1-1634624-0
	Right Angle, Nickel	Gold	A97562-ND	2.40	2.07	1-1634622-0
	Right Angle, Nickel	Gold	A97563-ND	3.80	3.27	1-1634508-0

BNC Action Pin / Bulkhead Decoupled Jack Connector

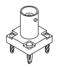

Body Plating: Nickel **Center Contact:** Gold

Description	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
		1	25	
Jack, PC Board Action Pin, 50 Ohm	A24627-ND	16.08	13.83	414553-1

BNC PC Board Mount Jack Connectors 75 Ohm

Center Contact: Gold

Fig. 1

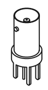

Fig. 2

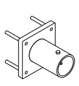

Fig. 3

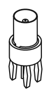

Fig. 4

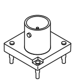

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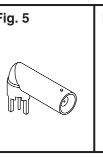

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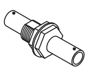

Fig.	Description	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
			1	25	
1	Vertical Metallized, Tin-Lead	A32406-ND◆	5.60	4.82	5414394-1
2	Vertical Metallized, Nickel	A32407-ND◆	6.80	5.85	5413986-1
3	Press Fit, Nickel, L (excl. pins): .810	A32408-ND◆	4.70	4.05	5222462-1
	Press Fit, Nickel, L (excl. pins): .640	A24609-ND	9.95	8.56	414088-1
	Press Fit, Nickel, L (excl. pins): .640	A32409-ND◆	9.93	8.54	5414088-1
4	Vertical Metallized (PCB: .125 min.)	A32410-ND◆	7.15	6.15	5221336-3
5	Right Angle, Nickel	A32411-ND◆	8.18	7.04	5413558-1
	Right Angle, Tin-Lead	A24612-ND	10.08	8.67	413558-2
	Right Angle, Tin-Lead	A32492-ND◆	9.83	8.45	5413558-2
6	Bulkhead Jack Adapter, Nickel	A24613-ND	8.53	7.34	222117-1
	Bulkhead Jack Adapter, Nickel	A33817-ND◆	7.53	6.48	5222117-1
Zinc Die Cast— RoHS Compliant					
1	Vertical Metallized, Nickel	A97582-ND	1.85	1.60	5-1634503-3
	Vertical Metallized, Nickel	A97584-ND	2.13	1.83	5-1634506-2
5	Elbow Socket, Nickel	A97569-ND	3.70	3.19	5-1634513-1

◆ *RoHS Compliant*

BNC Bulkhead Jack Connectors

75 Ohm **Center Contact:** Gold

Fig. 1
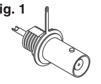

Fig. 2
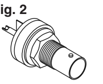

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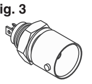

Fig.	Description	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Jack, Solder, Nickel	A24598-ND	5.25	4.52	221244-1
	Jack, Solder, Nickel	A33815-ND◆	4.65	4.00	5221244-1
2	Jack, Sealed Solder, Nickel	A24599-ND	12.13	10.43	414217-1
	Jack, Sealed Solder, Nickel	A32348-ND◆	7.48	6.43	5414217-1
	Jack, Decoupler, Right-Angle	A99516-ND◆	4.93	4.24	5414094-2
3	Jack, Solder, Nickel	A97551-ND◆	3.98	3.42	5-1634504-2

◆ *RoHS Compliant*

BNC RF PC Board / Panel Mount Decoupled Jack Connectors

Body Plating: VALOX, Black **Center Contact:** Gold **Hardware not included**

Fig. 1
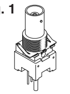

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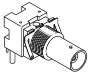

Fig.	Impedance (Ohm)	Mounting Post Length (Inches)	Capacity/Voltage	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
			Vertical — RoHS Compliant				
1	50	.137	9400pF / 1500V	A32414-ND	5.35	4.61	5413476-2
			Ultra Low Profile, Right Angle — RoHS Compliant				
2	50	.158	9400pF / 1500V	A32415-ND	5.13	4.41	5413515-2
	50	.110	7900pF / 1600V	A32416-ND	7.23	6.22	5413515-7
	50	.185	9400pF / 1500V	A32417-ND	4.43	3.81	5413515-8
	50	.110	9400pF / 1500V	A32418-ND	3.93	3.38	5413515-9
	75	.158	9400pF / 1500V	A99517-ND	9.48	8.15	5415103-1
			Standard, Right Angle				
2	50	.158	9400pF / 1500V	A32419-ND◆	4.33	3.72	5413524-2
	50	.110	9400pF / 1500V	A24625-ND	4.40	3.79	413524-5
	50	.110	9400pF / 1500V	A32420-ND◆	4.20	3.62	5413524-5

◆ *RoHS Compliant*

Terminator Plugs

50 and 75 Ohm **Body Plating:** Nickel **Center Contact:** Gold

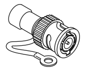

Description	Resistor Specification	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
With Tether	1 Watt, 50 Ohm	A24563-ND	10.48	9.01	221629-1
With Tether	1 Watt, 50 Ohm	A33818-ND◆	10.15	8.73	5221629-1
Without Tether	1 Watt, 50 Ohm	A24564-ND	9.58	8.24	221629-4
Without Tether	1 Watt, 50 Ohm	A33819-ND◆	9.48	8.15	5221629-4
With Tether	1 Watt, 75 Ohm	A24565-ND	25.55	21.98	221629-2
With Tether	1 Watt, 75 Ohm	A33820-ND◆	15.48	13.31	5221629-2
Without Tether	1 Watt, 75 Ohm	A24566-ND	11.60	9.98	221629-5
Without Tether	1 Watt, 75 Ohm	A33821-ND◆	10.00	8.60	5221629-5
With Tether	1 Watt, 50 Ohm‡	A24568-ND	10.23	8.80	1-221629-6
With Tether	1 Watt, 50 Ohm‡	A33822-ND◆	10.15	8.73	1-5221629-6

◆ *RoHS Compliant* ‡ Tether is conductive with #4 stud size.

Twin BNC and Twin-Ax Jack Connectors

Fig. 1
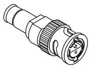

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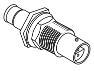

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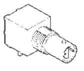

Fig. 4
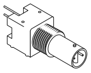

Fig. 5
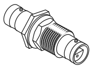

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Plug, Silver‡	108, 108A, Belden 9272, 89272	A24705-ND	39.05	33.59	332225
	Plug, Silver‡		A33824-ND◆	37.60	32.34	5332225
	Plug, Nickel‡		A24706-ND	21.65	18.62	332225-5
	Plug, Nickel‡		A33825-ND◆	21.28	18.30	5332225-5
2	Bulkhead Jack, Silver‡	108, 108A, Belden 9272, 89272	A24707-ND	34.65	29.80	332342
	Bulkhead Jack, Silver‡		A33826-ND◆	31.98	27.50	5332342
3	Right-Angle Jack w/Mounting Posts, VALOX, White	—	A24708-ND†	9.33	8.02	228686-1
		—	A32412-ND◆†	9.38	8.07	5228686-1
4	Vertical Jack w/Mounting Posts, VALOX, White	—	A24709-ND†	28.25	24.30	221198-1
		—	A32413-ND◆†	16.78	14.43	5221198-1
5	Bulkhead Jack Adapter, Nickel‡	—	A24710-ND	81.20	69.84	332215
		—	A33827-ND◆	81.28	69.90	5332215

◆ *RoHS Compliant* ‡ Center contact: Silver † Hardware not included

Mini BNC Connectors 75 Ohm

Features: • Offer 40% more interconnects than standard BNC connectors in the same area • Ideal for telecommunications and broadband applications **Materials:** • Brass/nickel shells, bodies and mounting nuts • Phosphor bronze and brass/gold center contacts **Specifications:** • Dielectrics: PTFE • Frequency: DC 2GHz • Nominal Impedance: 75Ω • Voltage Rating: 300V • Temperature Rating: -40°C ~ 85°C

Fig. 1
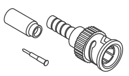

Fig. 2
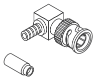

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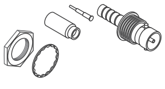

Fig. 4
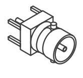

Fig. 5
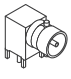

Fig. 6
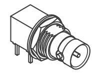

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	100	Tyco Electronics Part No.
1	Straight Cable Plug	735A	A30530-ND	12.13	8.25	1274563-1
	Straight Cable Plug	734A	A30531-ND	11.00	7.48	1274563-2
	Straight Cable Plug	RG 179	A30532-ND	12.23	8.32	1274563-3
2	Right Angle Cable Plug	735A	A30533-ND	12.43	8.45	1274566-1
	Right Angle Cable Plug	734A	A30534-ND	12.23	8.32	1274566-2
	Right Angle Cable Plug	RG 179	A30535-ND	12.23	8.32	1274566-3
3	Bulkhead Cable Jack	735A	A30536-ND	8.00	5.44	1274568-1
	Bulkhead Cable Jack	RG 179	A30538-ND	9.48	6.45	1274568-3
4	Straight Jack Receptacle	—	A30539-ND	6.08	4.14	1274571-1
5	Right Angle Jack Receptacle	—	A30540-ND	8.90	6.06	1274572-1
6	Right Angle Bulkhead Jack	—	A99402-ND	10.33	8.88	1274584-1
Die Set for 735A/RG179, use with A9996-ND			A9993-ND	90.72	—	58425-2
Die Set for 734A, use with A9996-ND			A9992-ND	90.72	—	58425-1

BNC Adapters 50 Ohm

Fig.	Description	Body Material and Plating	Center Contact Material and Plating	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Tee, Jack-Plug-Jack	Brass, Nickel	BE CU, Gold (30µ)	A24549-ND◆	25.05	21.55	221543-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A24550-ND	6.90	5.94	413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A32524-ND◆	7.30	6.28	5413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A24551-ND	5.38	4.63	413592-6
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A33800-ND◆	10.15	8.73	5413592-6
2	Tee, Jack-Jack-Jack	Brass, Nickel	BE CU, Silver (200µ)	A24553-ND◆	21.40	18.41	221988-1
3	Right Angle, Jack-Plug	Nickel	Silver	A24554-ND	8.25	7.10	329517
	Right Angle, Jack-Plug	Nickel	Silver	A33801-ND◆	21.83	18.77	5329517
4	Bulkhead Jack, Jack-Jack	Nickel	Silver	A24556-ND◆	21.40	18.41	330024
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A24557-ND	5.63	4.84	228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A33802-ND◆	5.28	4.54	5228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A24558-ND	4.85	4.18	228226-3
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A33803-ND◆	4.43	3.81	5228226-3
5	Jack Covers	Silver	—	A24559-ND◆	7.15	6.15	330022
6	Feed-Thru, Jack-Jack	Nickel	Silver	A24560-ND◆	9.50	8.17	221551-1
	Feed-Thru, Jack-Jack	Nickel	Gold	A24561-ND◆	8.03	6.91	221551-3
	Feed-Thru, Jack-Jack	Nickel	Gold	A33804-ND◆	17.20	14.80	5414414-1
			Zinc Die Cast — RoHS Compliant				
1	Tee, Jack-Plug-Jack	Zinc, Nickel	Brass, Gold	A97571-ND	3.05	2.63	5-1634532-1
2	Tee, Jack-Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97572-ND	4.80	4.13	5-1634535-1
3	Right Angle, Jack-Plug	Zinc, Nickel	Phosphor Bronze, Gold	A97568-ND	4.53	3.90	5-1634526-1
4	Bulkhead Jack, Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97547-ND†	2.95	2.54	5-1634530-1
6	Straight, Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97575-ND	1.75	1.51	5-1634534-1

◆ *RoHS Compliant* † Recommended nut (A97566-ND) and lockwasher (A97567-ND).

Fig. 1
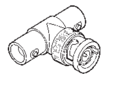

Fig. 2
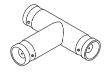

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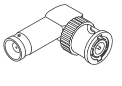

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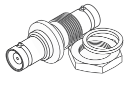

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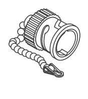

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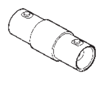

Compression Coax Board-to-Board

Fig. 1
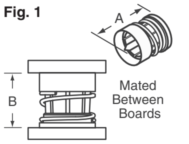

Fig. 2
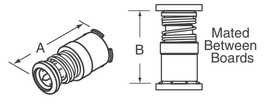

FEATURES: • Single connector design - no mating connectors needed • Available in four sizes for varied board spacing: 14mm, 10mm, 6.65mm and 4mm • Gold plated phosphor bronze and brass contacts, stainless steel springs **APPLICATIONS:** • Modular parallel board-to-board blind mate applications • Base Station, Sub Station systems • PDA, PCS and Cellular Handset applications • Wireless Communications systems (GSM, PCS, WCDMA, UMTS) **SPECIFICATIONS:** • **Characteristic Impedance:** 50Ω • **Frequency Range:** Up to 6GHz • **Operating Temperature:** -40°~125°C • **Mating Force:** 10N • **Durability:** 25 cycles • **Angle between Boards:** ± 2° max

Fig.	Dimension A (mm)	Mating Height (B) (mm)	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1	4.65 ± 0.15	4.0 ± 0.3	A32525-ND	4.55	3.92	3.46	1658260-1
2	15.7 ± 0.3	14 ± 1	A32526-ND	10.55	9.08	8.02	619127-1
	11.4 ± 0.3	10 ± 1	A32527-ND	9.38	8.07	7.13	619134-1
	7.75 ± 0.3	6.65 ± 0.4	A32528-ND	7.90	6.80	6.01	619135-1

RF Connectors

MCX Connectors

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Tyco Electronics Part No.
	Connector Plugs					
1	Straight Cable Plug, 50Ω - RD 316	A98536-ND	20.95	450.43	796.10	1060875-1
	Straight Cable Plug, 50Ω - RD 316	A98537-ND	26.95	579.43	1024.10	1060875-2
2	Right Angle Cable Plug, Crimp, RG 316	A98538-ND	5.78	124.16	219.45	1363301-1
3	Straight Plug Receptacle, 50Ω	A98541-ND	5.93	127.39	225.15	1061015-1
4	Straight Cable Plug, 75Ω, - RG 179	A98548-ND	13.20	283.80	501.60	1362990-1
5	Right Angle Cable Plug, 75Ω - RG 179	A98549-ND	7.68	165.01	291.65	1362991-1
	Connector Jack Receptacles					
6	Straight Jack, 50Ω, Nickel	A98542-ND	2.95	63.43	112.10	1060985-1
	Straight Jack, 50Ω, Gold	A98543-ND	4.10	88.15	155.80	1060984-1
	Straight Jack, 50Ω, Nickel	A98544-ND	4.78	102.66	181.45	1060989-1
	Straight Jack, 50Ω, Gold	A98545-ND	5.30	113.95	201.40	1060995-1
7	Right Angle Jack, 50Ω, Nickel	A98546-ND	7.10	152.65	269.80	1061023-1
	Right Angle Jack, 50Ω, Gold	A98547-ND	6.73	144.59	255.55	1061022-1
8	Printed Circuit Board Receptacle	A98535-ND	4.25	91.38	161.50	1361169-1
9	Bulkhead Cable Jack	A98539-ND	31.58	678.86	1199.85	1060883-1

Fig. 1

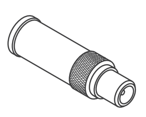

Fig. 2

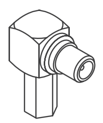

Fig. 3

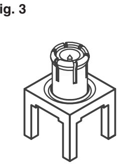

Fig. 4

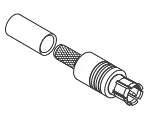

Fig. 5

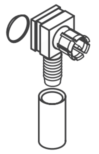

Fig. 6

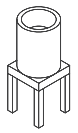

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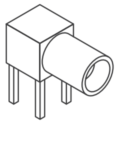

Fig. 8

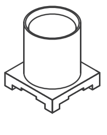

Fig. 9

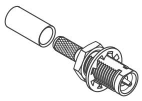

Fig. 10

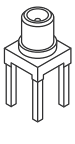

Fig. 11

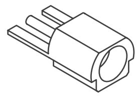

Fig. 12

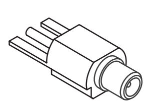

MMCX Connectors

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Tyco Electronics Part No.
	Semi-Rigid Cable - Direct Solder Attachment					
1	Straight Cable Plug - RG 405	A30732-ND	3.63	77.94	137.75	1408313-1
2	Right Angle Cable Plug - RG 405	A30733-ND	15.15	325.73	575.70	1408314-1
	Flexible Cable - Crimp Attachment					
1	Straight Cable Plug - RG 178, 196	A30734-ND	11.45	246.18	435.10	1408148-1
	Straight Cable Plug - RG 174, 188, 316	A30735-ND	32.85	706.28	1248.30	1408312-1
2	Right Angle Cable Plug - RG 178, 196	A30737-ND	7.70	165.55	292.60	1408149-1
	Right Angle Cable Plug - RG 174, 188, 316	A30738-ND	7.33	157.49	278.35	1408149-2
	Right Angle Cable Plug - RD 316	A30739-ND	24.90	535.35	946.20	1408149-3
	Printed Circuit Board					
6	Straight Jack Receptacle	A30740-ND	8.13	174.69	308.75	1408150-1
7	Right Angle Jack Receptacle	A30741-ND	7.63	163.94	289.75	1408151-1
10	Straight Plug Receptacle	A30742-ND	10.75	231.13	408.50	1408496-1
	Edge Mount					
11	Straight Jack Receptacle	A30743-ND	22.35	480.53	849.30	1408152-1
12	Straight Plug Receptacle	A30744-ND	12.10	260.15	459.80	1408120-1
	Crimp Tool					
—	Die Set to use with A9996-ND	A30731-ND	521.54	—	—	1583696-1
	Pro-Crimper Hand Tool	A9996-ND	45.36	—	—	354940-1

Between Series Adapters

Shell (Body) Finish: Gold

A34400-ND Shown

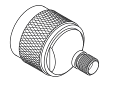

A34404-ND Shown

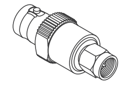

A34417-ND Shown

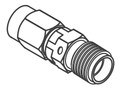

Description	Contact Finish	Digi-Key Part No.	Price Each 1	50	100	Tyco Electronics Part No.
SMA Plug to N Jack	Copper	A34406-ND	72.98	55.47	49.63	1057381-1
SMA Plug to N Plug	Copper	A34410-ND	60.95	46.33	41.45	1057367-1
SMA Jack to SMB Jack	Copper	A34424-ND	50.85	38.65	34.58	1060487-1
SMA Jack to N Jack	Copper	A34409-ND	81.75	62.13	55.59	1057341-1
SMA Jack to N Jack	Copper	A34415-ND†	73.25	55.67	49.81	1058651-1
SMA Jack to N Jack Square Flange	Copper	A34419-ND	98.90	75.17	67.26	1058653-1
SMA Jack to N Jack Bulkhead	Brass	A34411-ND	78.60	59.74	53.45	1057463-1
SMA Jack to OSP Plug Bulkhead	Copper	A34403-ND	48.13	36.58	32.73	1059756-1
SMA Jack to OSP Jack Panel	Copper	A34407-ND	58.90	44.77	40.06	1059731-1
SMA Jack to OSP Jack Panel	Copper	A34422-ND	70.40	53.51	47.88	1059724-1
SMA Jack to OSP Jack Bulkhead	Copper	A34430-ND	47.65	36.22	32.41	1059729-1
SMA Jack to OSP Jack Bulkhead	Copper	A34431-ND	83.08	63.14	56.50	1059733-1
SMA Jack to OSSP Jack	Copper	A34432-ND	135.88	103.27	92.40	1059928-1
SMA Jack to OSP Plug	Copper	A34420-ND	42.78	32.51	29.09	1059716-1
SMA Jack to OSSM Plug	Copper	A34417-ND	63.13	47.98	42.93	1053770-1

Description	Contact Finish	Digi-Key Part No.	Price Each 1	50	100	Tyco Electronics Part No.
SMA Jack to OSMT Jack	Copper	A34423-ND	81.75	62.13	55.59	1055694-1
SMA Jack to SMC Jack	Copper	A34436-ND	73.45	55.83	49.95	1060266-1
SMA Jack to TNC Jack Square Flange	Copper	A34427-ND†	107.60	81.78	73.17	1058755-1
SMB Plug to SMA Jack	Copper	A34414-ND	79.73	60.60	54.22	1060498-1
SMC Plug to SMA Jack	Copper	A34429-ND	37.03	28.14	25.18	1060272-1
BNC Jack to SMA Jack	Copper	A34418-ND	43.85	33.33	29.82	1058058-1
BNC Jack to SMA Jack Bulkhead	Copper	A34402-ND	49.95	37.97	33.97	1058117-1
BNC Jack to SMA Plug	Copper	A34404-ND	39.80	30.25	27.07	1058083-1
BNC Plug to N Jack	Brass	A34435-ND	88.45	67.23	60.15	1057392-1
BNC Plug to SMA Jack	Copper	A34405-ND	44.70	33.98	30.40	1058081-1
TNC Jack to SMA Jack Square Flange	Copper	A34408-ND	70.80	53.81	48.15	1057841-1
TNC Jack to SMA Jack Bulkhead	Copper	A34416-ND	90.58	68.84	61.60	1057908-1
TNC Plug to SMA Jack	Copper	A34413-ND	52.35	39.79	35.60	1057853-1
TNC Jack to BNC Jack	Brass	A99518-ND	131.65	100.06	89.53	1057845-1
N Plug to SMA Jack	Copper	A34400-ND	59.33	45.09	40.35	1057377-1
N Jack to SMA Jack Square Flange	Copper	A34401-ND	79.45	60.39	54.03	1057343-1
N Jack to TNC Plug	Copper	A34425-ND†	166.43	126.49	113.17	1058671-1
N Jack to SMA Plug Square Flange	Copper	A34426-ND	103.65	78.78	70.49	1057385-1
N Plug to BNC Jack	Brass	A34434-ND	133.38	101.37	90.70	1057390-1
N Plug to TNC Plug	Brass	A34437-ND†	126.10	95.84	85.75	1058662-1

† High Frequency

QSL Cables and Antennas

Features: • Low profile • Highly reliable ruggedized interface • Surface mount technology • Excellent price-to-performance ratio **Applications:** • Replacements for SMA, BNC and other RF connectors • Mobile antenna/GPS/Radio systems • PDA/PCS/Handheld applications • Wireless communications systems • Satellite communications, broadcast, multimedia • Automotive telematics • WiFi, WiMax antenna mobility and communications • Broadcast/set top box and integration media • PCIe and WNIC cards

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Digi-Key Part No.	T & R Pricing 270	Tyco Electronics Part No.
	PCB Receptacles							
1	Three port QSL without Flange	A99115CT-ND†	10.25	220.38	389.50	A99115TR-ND	1660.50	2016032-1
	Three port QSL with Flange	A99116CT-ND†	10.25	220.38	389.50	A99116TR-ND	1660.50	1274824-2
	Test Boards							
—	Test Board with Receptacle, QSL to SMA	A99117-ND	109.27	2349.25	4152.17	—	—	1513743-1
	Test Board with Receptacle, QSL to UMCC	A99118-ND	71.03	1527.04	2698.95	—	—	2016008-1
	Test Dongle, QSL to SMA	A99119-ND	54.50	1171.75	2071.00	—	—	2032605-1
	QSL Cable Assembly							
—	Three Port Jumper Plug	A99120-ND	8.58	184.36	325.85	—	—	2015518-1
	Three Port Pigtail Plug	A99121-ND	8.45	181.68	321.10	—	—	2053075-1
	QSL Antenna Assembly							
2	802.11a/b/g/n and WiMax without Flange	A99130-ND	24.25	521.38	921.50	—	—	1513711-1
	802.11a/b/g/n and WiMax with Flange	A99131-ND	25.50	548.25	969.00	—	—	1513712-1
3	MIMO 802.11a/b/g/n	A99132-ND	26.53	570.29	1007.95	—	—	1513837-1

† Cut Tape

Fig. 1

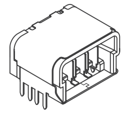

Fig. 2

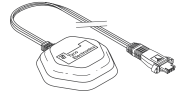

Fig. 3

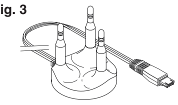

RF Connectors

Fig. 1 MIL Type

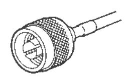

Fig. 2 Commercial Type

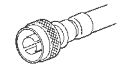

Fig. 3 MIL Type

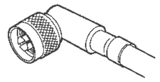

Fig. 4 MIL Type

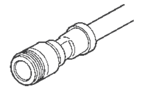

Fig. 5 MIL Type

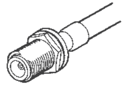

Fig. 6

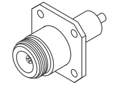

Fig. 7

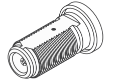

Fig. 8

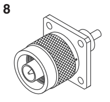

Fig. 9

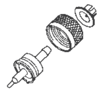

Fig. 10

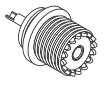

Fig. 11

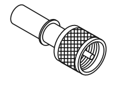

Fig. 12

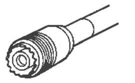

Fig. 13

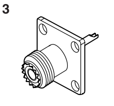

Fig. 14

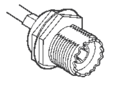

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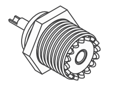

Fig. 16

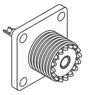

Fig. 17

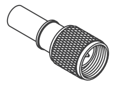

Fig. 18

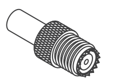

Fig. 19

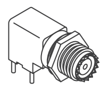

Fig. 20

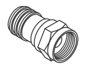

Fig. 21

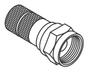

Fig. 22

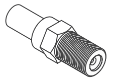

Fig. 23

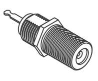

Fig. 24

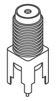

Fig. 25

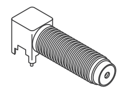

Fig. 26

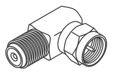

Fig. 27

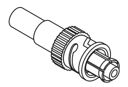

Fig. 28

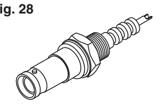

Fig. 29

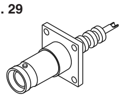

Fig. 30

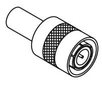

Fig. 31

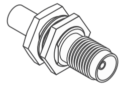

Fig. 32

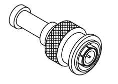

Fig. 33

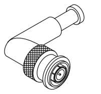

Fig. 34

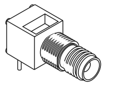

Fig. 35

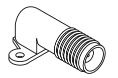

Fig. 36

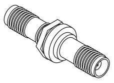

Fig. 37

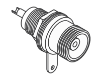

Fig. 38

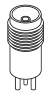

Fig. 39

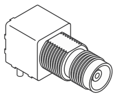

Fig. 40

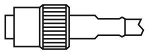

Fig. 41

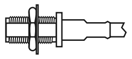

Fig. 42

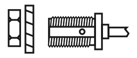

N Dual Crimp Connectors 50 Ohm

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
	Dual Crimp					
1	Plug, Nickel	58, 58A, 58B, 58C	A32421-ND◆	19.80	17.03	1-5225661-2
	Plug, Silver	58, 58A, 58B, 58C	A1148-ND	43.63	37.52	225361-1
	Plug, Silver	58, 58A, 58B, 58C	A32800-ND◆	36.78	31.63	5225361-1
	Plug, Nickel	223, 55, 55A, 55B	A32422-ND◆	21.65	18.62	1-5225661-3
	Plug, Silver	142, 142A, 142B, 400	A1151-ND	26.75	23.01	225361-4
	Plug, Silver	142, 142A, 142B, 400	A32801-ND◆	24.10	20.73	5225361-4
	Plug, Nickel	8, 8A, 213	A1152-ND	29.55	25.42	225661-2
	Plug, Nickel	8, 8A, 213	A32423-ND◆	24.90	21.42	5225661-2
	Plug, Silver	8, 8A, 213	A1153-ND	22.93	19.72	51692-2
	Plug, Nickel, Weatherproof	8, 8A, 213	A32424-ND◆	33.38	28.71	5225662-2
	Plug, Silver	393	A1157-ND	25.28	21.74	1-225092-1
	Plug, Silver	393	A32802-ND◆	28.73	24.71	1-5225092-1
	Plug, Nickel	9, 9A, 9B, 214	A32425-ND◆	24.90	21.42	5225661-1
2	Plug, Nickel, Weatherproof	142, 142A, 142B, 400	A32426-ND◆	34.75	29.89	5225699-1
	Plug, Nickel	8, 8A, 213	A32427-ND◆	18.18	15.64	1-5227086-0
	Plug, Nickel	142	A34385-ND◆	26.58	22.86	5225392-2
	Plug, Nickel	58A	A34398-ND◆	36.58	31.46	5225392-7
3	Right Angle Plug, Nickel	8, 8A, 213	A24654-ND	60.60	52.12	225669-2
	Right Angle Plug, Nickel	8, 8A, 213	A32428-ND◆	60.48	52.01	5225669-2
	Right Angle Plug, Silver	8, 8A, 213	A1137-ND	54.45	46.83	225014-2
	Right Angle Plug, Silver	9, 9A, 9B, 214	A1140-ND	71.40	61.41	225014-3
	Jack, Nickel, Weatherproof	58, 58A, 58B, 58C	A32429-ND◆	23.45	20.17	1-5225664-2
4	Jack, Nickel, Weatherproof	8, 8A, 213	A32430-ND◆	31.68	27.25	5225664-2
	Semi-Rigid Cable Crimp — RoHS Compliant					
1	Plug, Nickel	402, 141	A24660-ND	77.25	66.44	228440-1
	Plug, Nickel	58, 141, 303,	A34382-ND	40.48	34.81	1057243-1
	Plug, Nickel	405	A34387-ND	48.88	42.04	1057094-1
	Plug, Nickel	Belden 8214	A34389-ND	24.90	21.42	1-5225661-6
5	Bulkhead Jack, Nickel, Rear Mount	402, 141	A24661-ND	95.13	81.81	228658-1
	Bulkhead Jack, Nickel, Rear Mount	402	A34379-ND	52.43	45.09	1057159-1
6	Jack, Nickel	—	A34378-ND	18.93	16.28	1057290-1
	Bulkhead Jack, Nickel, Flange	402	A34380-ND	64.68	55.63	1057176-1
	Jack, Nickel, Square Flange	5	A34381-ND	36.20	31.14	1058644-1
	Jack, Nickel	—	A34384-ND	16.63	14.30	1057284-1
	Jack, Nickel, Square Flange, Tab	—	A34388-ND	20.50	17.63	1057293-1
	Jack, Nickel, Square Flange	.085	A34393-ND	77.10	66.31	1057178-1
7	Bulkhead Jack, Nickel	.085	A34391-ND	87.93	75.62	1057165-1
	Bulkhead Jack, Nickel	.141	A34395-ND	69.95	60.16	1057628-1
	Bulkhead Jack, Nickel	141	A34396-ND	71.50	61.49	1057138-1
8	Plug, Nickel	—	A34386-ND	25.40	21.85	1057279-1
	Plug, Nickel	—	A34397-ND	38.35	32.99	1057277-1
—	Jack, Gold	.141	A34390-ND	46.83	40.27	1057116-1

◆ ***RoHS Compliant***

UHF Connectors

Center contact plating: Tin

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
	Standard UHF Connectors — RoHS Compliant					
9	Plug, Single Crimp, Tin Plated	58, 58A, 58B, 58C	A32431-ND	10.95	9.42	5226279-1
	Standard UHF Connectors — Zinc Die Cast — RoHS Compliant					
10	Bulkhead Socket, Nickel Plated	—	A97595-ND	2.40	2.07	5-1814814-1
	Miniature UHF Connectors					
11	Plug, Dual Crimp, Nickel	58, 58A, 58B, 58C	A24671-ND	1.80	1.55	226600-1
12	Jack, Crimp. Nickel	58, 58A, 58B, 58C	A32432-ND◆	11.53	9.92	5226602-1
13	Panel Solder Jack, Nickel	—	A32433-ND◆	80.48	69.21	5226601-1
14	Bulkhead Jack, Crimp, Nickel	174, 316, 188, 188A, 58, 58A, 58B, 58C	A24674-ND◆	16.20	13.94	228665-2
	Bulkhead Jack, Crimp, Nickel		A32434-ND◆	23.35	20.09	5414045-1
	Miniature UHF Connectors — Zinc Die Cast — RoHS Compliant					
15	Bulkhead Socket, Nickel Plated	—	A97596-ND	3.60	3.10	5-1814815-1
16	Panel Socket, Nickel Plated	—	A97597-ND	3.98	3.42	5-1814816-1
17	Straight Plug Hex, Nickel Plated	—	A97598-ND	1.93	1.66	5-1814818-1
18	Straight Jack Hex, Nickel Plated	—	A97599-ND	3.60	3.10	5-1814819-1
19	Elbow PCB Socket	—	A97600-ND	4.25	3.66	5-1814820-1

◆ ***RoHS Compliant***

F Connectors — Zinc Die Cast

Center contact plating: Nickel (except A97612-ND and A97613-ND: Tin over Copper)

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
20	Straight Plug Hex Crimp	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97601-ND	1.03	.89	5-1814821-1
	Straight Plug Hex Crimp	6	A97602-ND	1.03	.89	5-1814821-3
	Straight Plug Hex Crimp	CT125	A97603-ND	1.03	.89	5-1814821-7
21	Straight Plug Twist-On	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97604-ND	1.03	.89	5-1814822-1
	Straight Plug Twist-On	6	A97605-ND	1.03	.89	5-1814822-3
	Straight Plug Twist-On	CT100	A97606-ND	1.03	.89	5-1814822-5
	Straight Plug Twist-On	CT125	A97607-ND	1.03	.89	5-1814822-7
22	Black Jack Rear Mount	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97608-ND	2.60	2.24	5-1814826-1
	Black Jack Rear Mount	6	A97609-ND	2.60	2.24	5-1814826-3
23	Bulkhead Socket	—	A97610-ND	1.58	1.36	5-1814823-1
24	Straight PCB Socket	—	A97611-ND	2.30	1.98	5-1814825-1
25	Elbow Jack PCB Extended	—	A97612-ND	2.40	2.07	5-1634552-1
	Elbow Jack PCB	—	A97613-ND	2.30	1.98	5-1634540-1
26	Elbow Adapter Jack-Plug	—	A97614-ND	3.33	2.86	5-1634537-1

(Continued)

SHV Dual Crimp Connectors

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
27	Plug, Nickel	58, 58A, 58B, 58C	A32435-ND◆	40.28	34.64	5051426-4
	Plug, Silver	58, 58A, 58B, 58C	A24665-ND	53.13	45.69	51426-1
	Plug, Nickel	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32436-ND◆	43.50	37.41	5051426-5
	Plug, Silver	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24667-ND†	48.30	41.54	51426-2
	Plug, Silver		A32437-ND◆†	43.50	37.41	5051426-2
28	Bulkhead Solder Jack, Silver	—	A24668-ND	31.33	26.94	51494-1
	Bulkhead Solder Jack, Silver	—	A32804-ND◆	28.80	24.77	5051494-1
	Bulkhead Solder Jack, Nickel	—	A24669-ND◆	17.90	15.40	51494-2
29	Panel Solder Jack, Nickel	—	A24670-ND◆	53.08	45.65	51421-2

◆ ***RoHS Compliant*** † 22 AWG Center Conductor Maximum

TNC Hex and Dual Crimp Connectors 50 and 75 Ohm

Center Contacts: Gold
Dies for Pro-Crimper: A: A9994-ND **B:** A24570-ND
Dies for SDE PEW 12: C: A97886-ND

Fig.	Ω	Description	Die	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
				Hex Crimp				
30	50	Plug	—	174, 188, 188A, 316	A24635-ND	8.88	7.64	222506-5
		Plug	—	174, 188, 188A, 316	A32438-ND◆	8.68	7.47	5222506-5
		Plug	A	58, 58A, 58B, 58C	A32439-ND◆	8.28	7.12	5222506-1
	50	Plug	C	58C, 141A, 303, URM43, 76, Belden 9907, KX15	A97585-ND◆	2.78	2.39	5-1814800-3
	75	Plug	C	59B, 62A, 140, 210, URM90, KX6A, KX25, KX52, KX53	A97586-ND◆	2.63	2.26	5-1814801-3
31	50	Jack	C	58C, 141A, 303, URM43, 76, Belden 9907, KX15	A97587-ND◆	5.08	4.37	5-1814802-3
				Dual Crimp				
32	50	Plug, Weatherproof	—	223, 55, 55A, 55B	A24638-ND†	32.38	27.85	225550-1
		Plug, Weatherproof	—	142, 142A, 142B, 400	A32440-ND◆†	20.35	17.51	5225555-6
	50	Plug, Weatherproof	B	RG58A/U and RG58C/U	A32441-ND◆	20.73	17.83	5225555-2
	50	Plug, Weatherproof	—	8, 8A, 213	A24641-ND†	53.35	45.89	225555-7
		Plug, Weatherproof	—	8, 8A, 213	A32442-ND◆†	37.68	32.41	5225555-7
	50	Plug, Weatherproof	—	RG393, 9, 9A, 9B, 214	A24642-ND†	28.65	24.64	1-225550-3
		Plug, Weatherproof	—	RG393, 9, 9A, 9B, 214	A32805-ND◆†	30.60	26.32	1-5225550-3
		Plug, Weatherproof	—	RG393, 9, 9A, 9B, 214	A24644-ND	38.08	32.75	225550-8
33	50	Right Angle Plug, Weatherproof	—	58, 58A, 58B, 58C	A24645-ND	50.30	43.26	225559-2
			—	58, 58A, 58B, 58C	A32443-ND◆	42.58	36.62	522559-2
		Right Angle Plug, Weatherproof	—	142, 142A, 142B, 400	A24646-ND	46.18	39.72	225554-6
		Right Angle Plug, Weatherproof	—	393, 225	A24647-ND	93.43	80.35	1-225554-1

◆ ***RoHS Compliant*** † Mil Type

TNC PC Board/ Panel Mount Connectors 50 and 75 Ohm

Center Contacts: Gold

Fig.	Ω	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
34	50	Right Angle Jack, Metal With Mounting Posts	A32444-ND◆	8.63	7.42	5227839-1
35	50	Right Angle Jack, Nickel	A24650-ND	15.70	13.51	413933-1
36	50	Bulkhead Jack Adapter, Nickel	A24651-ND◆	12.70	10.93	221500-1
		Zinc Die Cast — RoHS Compliant				
37	75	Bulkhead Jack	A97590-ND	2.95	2.54	5-1814804-3
38	50	Vertical PCB Jack	A97591-ND	3.70	3.19	5-1814805-1
39	50	Right Angle PCB Jack	A97592-ND	4.43	3.81	5-1814807-1

◆ ***RoHS Compliant***

Miniature Threaded Connectors 50 Ohm

RoHS COMPLIANT

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	Tyco Electronics Part No.
40	Plug, TEFLON	178, 178A, 178B, 196, 196A 174, 316, 188, 188A 180, 180A, 180B, 195, 195A	A24699-ND	9.30	8.00	2-330311-2
41	Jack, TEFLON	180, 180A, 180B, 195, 195A	A24702-ND	17.25	14.84	1-330599-0
42	Solder Jack Adapter	—	A24703-ND	19.80	17.03	329852

Hand Tools and Die Sets for RF Connectors

Terminal Type (Crimp)	Description	Digi-Key Part No.	Price Each	Tyco Electronics Part No.
	50 Ohm			
Dual	PRO-CRIMPER III (BNC)	A24786-ND	164.70	58433-1
—	PRO-CRIMPER III Hand Tool	A9996-ND	45.36	354940-1
—	PRO-CRIMPER II/III Repair Kit	A34584-ND	41.96	679221-1
Hex	PRO-CRIMPER III Die Set	A9995-ND	90.72	58436-3
Hex	PRO-CRIMPER III Die Set	A9994-ND	90.72	58436-1
Hex	PRO-CRIMPER III Die Set	A9960-ND	52.59	58436-2
Dual	PRO-CRIMPER III Die Set	A24570-ND	90.72	58435-1
Dual	PRO-CRIMPER III Die Set	A24780-ND	267.30	318450-2
Dual	PRO-CRIMPER III Die Set	A24779-ND	945.00	58330-1
Dual	PRO-CRIMPER III Die Set	A24781-ND	351.00	318452-2
Dual	PRO-CRIMPER III Die Set	A24777-ND	267.30	220189-3
Dual	PRO-CRIMPER III Die Set	A24778-ND	90.72	220189-1
Dual	PRO-CRIMPER III Die Set	A24775-ND	351.00	220189-2
Dual	PRO-CRIMPER III with Die Set	A9970-ND	297.00	91904-2
Dual	BNC Coaxial Die Set	A30571-ND	267.30	1424050-1
	BNC PRO-CRIMPER III Dies, 75 Ohm			
Hex	BNC Die Set	A9993-ND	90.72	58425-2
Hex	BNC Die Set	A9992-ND	90.72	58425-1
—	Crimp Tool with Die Set	A9803-ND	97.93	58531-2
—	Crimp Tool with Die Set	A9804-ND	97.93	58531-1
Dual	Die Set	A24597-ND	351.00	58085-1
Dual	Die Set	A24630-ND	267.30	318451-2
Dual	Die Set	A24631-ND	351.00	58538-1
Dual	Die Set	A24632-ND	351.00	58174-1
—	BNC Coaxicon Die Set	A29143-ND	1182.60	91904-1
	N-Type			
—	Crimp Tool with Die Set	A9807-ND	318.60	58501-1
Hex	Die Set, use with A9996-ND	A9975-ND	267.30	58485-1
	Zinc Die Cast			
—	SDE PEW 12 Hand Tool	A97885-ND	69.12	9-1478240-0
Hex	SDE PEW 12 Die Set	A97886-ND	207.90	9-1478242-0

Waka

SMA Fixed Length Semi-Rigid Cables

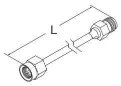

Materials: • Stainless steel body • Center contacts: Gold plated Beryllium Copper • Insulators: PTFE • Gaskets: Silicone rubber **Specifications:** • Impedance: 50Ω • V.S.W.R: DC 18GHz (maximum 1.05 + 0.005f), f = frequency range (GHz) • Insertion Loss: DC 18GHz (maximum 0.03 $\sqrt{f}$ dB), f = frequency range (GHz) • Insulation Resistance: DC 500V (minimum 5000MΩ) • Dielectric Withstanding Voltage: 1000Vrms at sea level • Contact Resistance: AC 50mA (maximum 3mΩ)

Cable Type	Dim. L (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Waka Part No.
			SMA Plug to Plug			
SX-12S (.047")	500	305-1010-ND	61.88	60.64	58.41	02Y5717#0500
	1000	305-1011-ND	66.61	65.28	62.89	02Y5717#1000
			SMA Plug to Jack			
SX-22S (.085")	100	305-1012-ND	32.48	31.83	30.66	02Y5718#0100
	500	305-1014-ND	40.28	39.47	38.02	02Y5718#0500
	100	305-1016-ND	34.01	33.34	32.11	02Y5719#0100
	200	305-1017-ND	37.08	36.34	35.00	02Y5719#0200
	500	305-1018-ND	41.81	40.98	39.48	02Y5719#0500
	1000	305-1019-ND	51.01	50.00	48.16	02Y5719#1000
SX-12S (.047")	100	305-1020-ND	55.75	54.64	52.63	02Y5720#0100
	500	305-1022-ND	63.41	62.15	59.87	02Y5720#0500
	1000	305-1023-ND	68.15	66.79	64.34	02Y5720#1000

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samtec

Ganged MMCX Jack

RoHS COMPLIANT

Specifications:

• Shell Material: Brass • Jack Contact Material: BeCu • Insulator Material: Teflon • Pin Material: Brass • Plating: 30µ" (0.76µm) Au over 50µ" (1.27µm) Ni • Operating Temperature Range: -40°C ~ 90°C • Insulation Resistance: 1000MΩ min. • Contact Resistance: Center: 5mΩ, Outer: 2.5mΩ • Impedance: 50Ω • Dielectric Withstanding Voltage: 500Vrms, 50Hz • Dielectric Working Voltage: 170Vrms, 50Hz • Frequency Range: 0 ~ 6GHz

Processing:

• Lead-Free Solderable: Yes

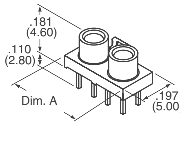

No. of Positions	Dimension A In. (mm)	Digi-Key Part No.	Price Each	Samtec Part No.
6	1.18 (30.0)	SAM8071-ND	47.01	GRF1-J-P-06-E-ST-THI

BNC and F Connector Cables

Male to Male

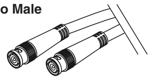

Item	Description	Cable Type		
		RG58	RG59	RG6
Conductor	Material	BC (bare copper)	CCS (copper clad steel)	BC (bare copper)
	No. / Inch (mm)	1 / .32 (0.813)	1 / .253 (0.643)	1 / .253 (0.643)
Insulation	Material	LDPE (low density PE)	LDPE (low density PE)	LDPE (low density PE)
	Color	Natural	Natural	Natural
	Diameter: Inch (mm)	.116 (2.95)	.146 (3.71)	.146 (3.71)
Braided Shielding	Material	BC	BC	BC
	No. / Inch (mm)	16/7 / .051 (0.12)	16/7 / .051 (0.12)	16/7 / .051 (0.12)
Jacket	Material	PVC	PVC	PVC
	Thickness: Inch (mm)	.283 (0.72)	.354 (0.9)	.354 (0.9)
	Color	Black	Black	See Below
	Outer Diameter: Inch (mm)	.195 ±.006 (4.95 ±0.15)	.236 ±.006 (6.0 ±0.15)	.236 ±.006 (6.0 ±0.15)
General	Tensile Strength	1,500 psi	1,500 psi	1,500 psi
	Nominal Impedance (ohm)	53.5	73	75
	Nominal Capacitance (pF/m)	93.5	68.9	44.3
	Attenuation 100MHZ (db/km)	138	125	102
	Voltage Rating	5.0KV	7.0KV	3.0KV
	UL Standard	1354	1354	1354

Length Feet (M)	Digi-Key Part No.	Price Each	TPI Part No.
BNC Connector Cables			
RG58/U Molded Strain Relief Cables 50Ω			
1 (.30)	290-1009-ND	7.95	58-012-1M
2 (.61)	290-1010-ND	8.49	58-024-1M
3 (.91)	290-1011-ND	8.95	58-036-1M
4 (1.22)	290-1012-ND	9.44	58-048-1M
5 (1.52)	290-1013-ND	9.98	58-060-1M
6 (1.83)	290-1014-ND	10.49	58-072-1M
10 (3.05)	290-1015-ND	12.54	58-120-1M
15 (4.57)	290-1016-ND	15.18	58-180-1M
25 (7.62)	290-1017-ND	20.79	58-300-1M
50 (15.24)	290-1018-ND	31.99	58-600-1M
75 (22.86)	290-1019-ND	45.49	58-900-1M
100 (30.48)	290-1020-ND	57.49	58-1200-1M
RG59/U Molded Strain Relief Cables 75Ω			
1 (.30)	290-1021-ND◆	8.49	59-012-1M
2 (.61)	290-1022-ND	8.97	59-024-1M
3 (.91)	290-1023-ND	9.39	59-036-1M
4 (1.22)	290-1024-ND	9.84	59-048-1M
5 (1.52)	290-1025-ND	10.39	59-060-1M
6 (1.83)	290-1026-ND◆	10.79	59-072-1M
10 (3.05)	290-1027-ND	13.19	59-120-1M
15 (4.57)	290-1028-ND◆	16.89	59-180-1M
25 (7.62)	290-1029-ND	21.49	59-300-1M
50 (15.24)	290-1030-ND◆	34.49	59-600-1M
100 (30.48)	290-1032-ND◆	59.99	59-1200-1M
F Connector Cables			
RG6/U Molded End Cables - Black			
6 (1.83)	290-1082-ND	5.45	F6-6B
25 (7.62)	290-1086-ND	10.49	F6-25B
50 (15.24)	290-1135-ND	16.79	F6-50B
75 (22.86)	290-1136-ND	26.35	F6-75B
RG6/U Molded End Cables - White			
3 (.91)	290-1090-ND	4.35	F6-3W

◆ *RoHS Compliant*

BNC Attenuators and Kit

Specifications: • **Nominal Impedance:** 50Ω ±0.25Ω over operating temperature range • **Operating Temperature:** -50°C ~ 80°C • **Power Rating:** 2W over operating temperature range • **Power Rating (Peak):** 100W for 25 microseconds • **Materials:** Tin-Zinc-Copper plating

Frequency (GHz)	Impedance (Ω)	Power (Watt)	Attenuation (dB)	Digi-Key Part No.	Price Each	TPI Part No.
0 ~ 1.0	50	1	3	290-1922-ND	55.95	120082
0 ~ 1.0	50	1	6	290-1923-ND	55.95	120083
0 ~ 1.0	50	1	10	290-1924-ND	55.95	120084
0 ~ 1.0	50	1	20	290-1925-ND	55.95	120085
BNC Attenuator Kit (includes all Attenuators listed above)				290-1926-ND	207.95	120086

Attenuator

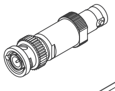

Kit

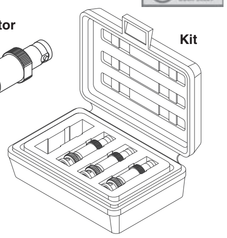

DVI and HDMI Cables

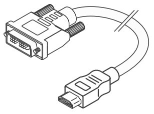

290-1913-ND DVI Male to DVI Male 2M (CT001147)............... **$20.95**
290-1915-ND DVI Male to HDMI Male 2M (CT001149) **$21.95**
290-1914-ND HDMI Male to HDMI Male 2M (CT1001148)......... **$22.95**

Coax Adapter Connector Kits

- Kit includes male and female connectors of all eight types.
- Any adapter can be created on the spot in just seconds.
- Simply screw any combination of 24 connectors to one of the six universal interfaces.
- Gold plated contacts
- Silver plated machined brass connector bodies with teflon insulation
- Custom storage and carrying case keeps adapters organized

TPI-3000A

290-1045-ND TPI Part No. TPI-3000A **$159.95**

Adapter Kit Accessories

Universal Adapter Cable Kit

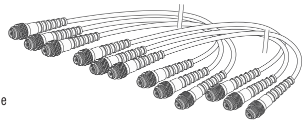

For use with TPI-3000A and TPI-5000A adapter kits. Provides the functionality of an entire set of cables. Creates the cable of your choice using the universal cable and any combination of connectors from the kits noted above.

- 6 each 48" universal cables and wall rack
- Soft insulation makes cable flexible and easy to handle

290-1380-ND TPI Part No. TPI-5010 .... **$199.00**

NEW! Accessories

290-1932-ND TPI Part No. TPI-4015 Universal Middle Adapter.. **$10.74**
290-1933-ND TPI Part No. GEX-120 (Individual Cable - Not a Set) **$43.30**

WiFi System and RF Adapter Kits

- Custom connectors for start up or installed base WiFi systems
- Special WiFi connectors at your fingertips save time
- Magic middle threaded adapter makes it simple
- Designed for the WiFi-age systems in all types of setting
- Superior machined adapters with high quality long lasting results
- Custom storage and carrying case keeps adapters

TPI 5000A

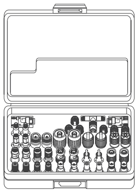

290-1921-ND	TPI Part No. TPI 5000A		RF Adapter Kit	**$159.95**
290-1927-ND	TPI Part No. TPI-4024WIFI	***NEW!***	Basic WiFi Kit	**$330.83**
290-1928-ND	TPI Part No. TPI-4028WIFI	***NEW!***	Basic WiFi Kit with Tester	**$847.10**
290-1929-ND	TPI Part No. TPI-4023WIFI	***NEW!***	Expanded WiFi Kit	**$553.31**
290-1930-ND	TPI Part No. TPI-4019	***NEW!***	Kit Allows Expansion	**$613.53**
290-1931-ND	TPI Part No. TPI-4022	***NEW!***	Mega Kit	**$1282.62**

NEW! Specialty Application

- Specially selected connector ends for most applications
- Select a set for special systems or hobbies - from radios to TNC, DIN or SMA
- Magic middle threaded adapter makes it simple
- Small but comprehensive sets designed for various systems
- Superior machined adapters with high quality long lasting results
- Custom storage and carrying case keeps adapters organized

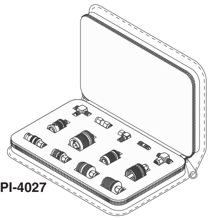

TPI-4027

290-1934-ND	TPI Part No. TPI-4012	TNC Adapter Kit	**$146.26**
290-1935-ND	TPI Part No. TPI-4013	7/16 Din Adapter Kit	**$646.69**
290-1936-ND	TPI Part No. TPI-4027	SMA Adapter Kit	**$207.94**
290-1937-ND	TPI Part No. TPI-4010	Master Cellular Radio Kit	**$310.20**
290-1938-ND	TPI Part No. TPI-4021	Mobile Radio Adapter Kit	**$287.47**

RF Connectors and Cable Assemblies

RoHS COMPLIANT

Dimensions in mm

Fig. 1

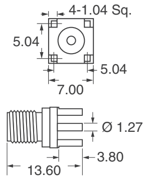

Fig. 2

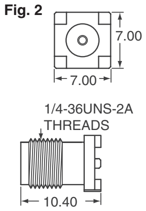

Fig. 3

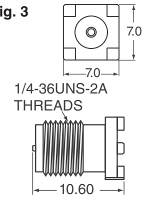

Fig. 4

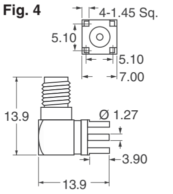

Fig. 5

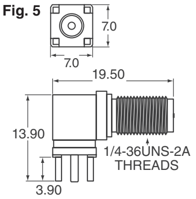

Fig. 6

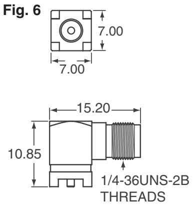

Fig. 7

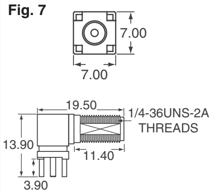

Fig. 8

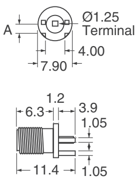

Fig. 9

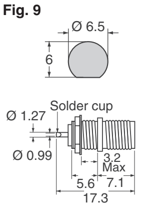

Fig. 10

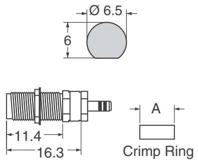

Fig. 11

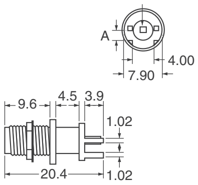

Fig. 12

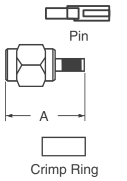

Fig. 13

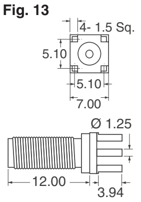

Fig. 14

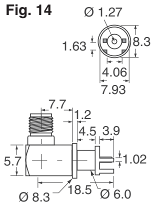

Fig. 15

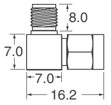

Fig. 16

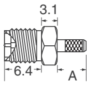

Fig. 17

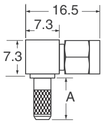

Fig. 18

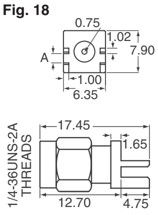

Fig. 19

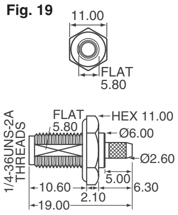

Fig. 20

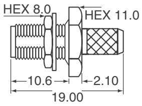

Fig. 21

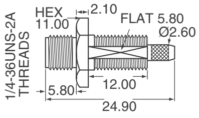

Fig. 22

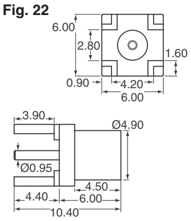

Fig. 23

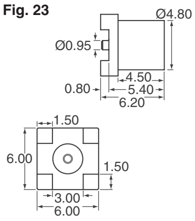

Fig. 24

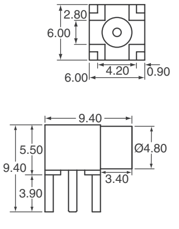

Fig. 25

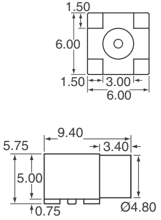

Fig. 26

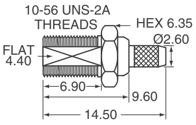

Fig. 27

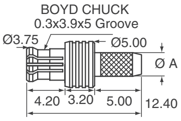

Fig. 28

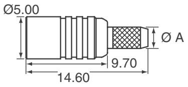

Fig. 29

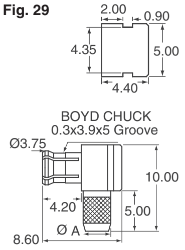

Fig. 30

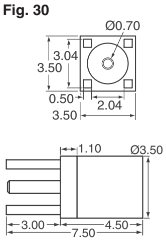

Fig. 31

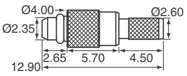

Fig. 32

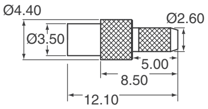

Fig. 33

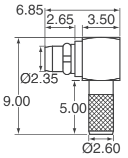

Fig. 34

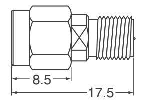

Fig. 35

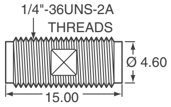

Fig. 36

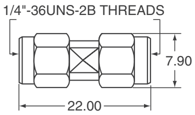

Fig. 37

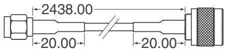

Fig. 38

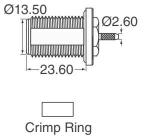

Fig. 39

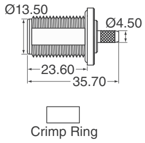

Fig. 40

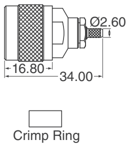

Fig. 41

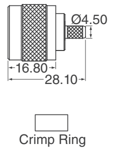

Fig. 42

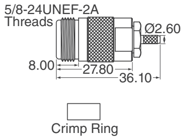

Fig. 43

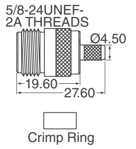

Fig. 44

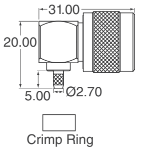

Fig. 45

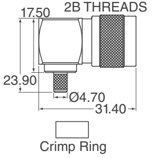

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Linx Part No.
1	RP-SMA PCB Mount	—	CONREVSMA001-ND	2.76	2.54	2.31	CONREVSMA001
	SMA Female PCB Mount	—	CONSMA001-ND	3.48	3.20	2.91	CONSMA001
2	SMA Female Surface Mount	—	CONSMA001-SMD-ND	4.23	3.88	3.53	CONSMA001-SMD
3	RP-SMA Female PCB Surface Mount	—	CONREVSMA001-SMD-ND	3.81	3.50	3.18	CONREVSMA001-SMD
4	RP-SMA Right Angle PCB Mount	—	CONREVSMA002-ND	3.12	2.86	2.60	CONREVSMA002
	SMA Female Right Angle PCB Mount	—	CONSMA002-ND	3.48	3.20	2.91	CONSMA002
5	RP-SMA Female Right Angle PCB Mount – Extended	—	CONREVSMA002-L-ND	3.92	3.60	3.27	CONREVSMA002-L
6	SMA Female Right Angle Surface Mount	—	CONSMA002-SMD-ND	3.92	3.60	3.27	CONSMA002-SMD
7	SMA Female Right Angle PCB Mount – Extended	—	CONSMA002-L-ND	4.41	4.05	3.68	CONSMA002-L
8	RP-SMA Card Edge Mount Connector for 0.031” (.79mm) Thick Board	0.94	CONREVSMA003.031-ND	2.90	2.66	2.42	CONREVSMA003.031
	RP-SMA Card Edge Mount Connector for 0.062” (1.57mm) Thick Board	1.62	CONREVSMA003.062-ND	3.43	3.15	2.86	CONREVSMA003.062
	SMA Female Card Edge Mount Connector for 0.031” (.79mm) Thick Board	0.94	CONSMA003.031-ND	3.29	3.02	2.74	CONSMA003.031
	SMA Female Card Edge Mount Connector for 0.062” (1.57mm) Thick Board	1.62	CONSMA003.062-ND	3.29	3.02	2.74	CONSMA003.062
9	RP-SMA Front Mount Bulkhead Receptacle	—	CONREVSMA004-ND	3.03	2.78	2.53	CONREVSMA004

(Continued)

RF Connectors and Cable Assemblies *(Cont.)*

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
—	RP-SMA Bulkhead Crimp Jack-Captive Contact with 8.5" (215.90mm) Cable	—	CONREVSMA005C08.5-ND	6.44	5.90	5.37	CONREVSMA005-C08.5
10	RP-SMA Female Bulkhead Mount Cable End Crimp for RG-174 Cable	9.5	CONREVSMA005-ND	4.21	3.86	3.51	CONREVSMA005
	SMA Female Bulkhead Mount Cable End Crimp for RG-58 Cable	12.7	CONSMA005-R58-ND	2.94	2.70	2.46	CONSMA005-R58
	SMA Female Bulkhead Mount Cable End Crimp for RG-174 Cable	9.5	CONSMA005-ND	4.41	4.05	3.68	CONSMA005
	SMA Female Bulkhead Mount Cable End Crimp for RG-178 Cable	6.0	CONSMA005-R178-ND	4.41	4.05	3.68	CONSMA005-R178
11	RP-SMA Female Edge Multi-Mount for 0.062" (1.57mm) Thick Board	1.63	CONREVSMA006.062-ND	3.96	3.63	3.30	CONREVSMA006.062
	SMA Female Edge Multi-Mount for 0.031" (.79mm) Thick Board	0.94	CONSMA006.031-ND	4.90	4.50	4.09	CONSMA006.031
	SMA Female Edge Multi-Mount for 0.062" (1.57mm) Thick Board	1.70	CONSMA006.062-ND	4.90	4.50	4.09	CONSMA006.062
12	RP-SMA Male Cable End Crimp for RG-174 Cable	16.80	CONREVSMA007-ND	2.94	2.70	2.46	CONREVSMA007
	SMA Male Cable End Crimp for RG-58 Cable	16.65	CONSMA007-R58-ND	2.18	2.00	1.82	CONSMA007-R58
	SMA Male Cable End Crimp for RG-174 Cable	14.65	CONSMA007-ND	2.18	2.00	1.82	CONSMA007
	SMA Male Cable End Crimp for RG-178 Cable	14.65	CONSMA007-R178-ND	2.18	2.00	1.82	CONSMA007-R178
13	RP-SMA Female PCB Mount - Extended	—	CONREVSMA008-ND	3.47	3.19	2.90	CONREVSMA008
	SMA Female PCB Mount - Extended	—	CONSMA008-ND	3.56	3.27	2.97	CONSMA008
14	RP-SMA Female Right Angle Edge Multi-Mount for 0.062" (1.57mm) Thick Board	—	CONREVSMA009-ND	4.90	4.50	4.09	CONREVSMA009
15	RP-SMA Male to RP-SMA Female Right Angle Adapter	—	CONREVSMA010-ND	4.10	3.76	3.42	CONREVSMA010
	SMA Male to SMA Female Right Angle Adapter	—	CONSMA010-ND	4.90	4.50	4.09	CONSMA010
16	RP-SMA Female Cable End Crimp for RG-174 Cable	5.0	CONREVSMA011-ND	2.23	2.05	1.86	CONREVSMA011
	SMA Female Cable End Crimp for RG-58 Cable	7.0	CONSMA011-R58-ND	2.61	2.40	2.18	CONSMA011-R58
	SMA Female Cable End Crimp for RG-174 Cable	5.0	CONSMA011-ND	2.61	2.40	2.18	CONSMA011
	SMA Female Cable End Crimp for RG-178 Cable	5.0	CONSMA011-R178-ND	2.61	2.40	2.18	CONSMA011-R178
17	RP-SMA Male Right Angle Cable End Crimp for RG-174 Cable	5.0	CONREVSMA012-ND	4.41	4.05	3.68	CONREVSMA012
	SMA Male Right Angle Cable End for RG-58 Cable	7.0	CONSMA012-R58-ND	3.17	2.91	2.64	CONSMA012-R58
	SMA Male Right Angle Cable End for RG-174 Cable	5.0	CONSMA012-ND	3.17	2.91	2.64	CONSMA012
	SMA Male Right Angle Cable End for RG-178 Cable	5.0	CONSMA012-R178-ND	3.17	2.91	2.64	CONSMA012-R178
18	RP-SMA Male Edge Mount for 0.031" (.79mm) Thick Board	0.94	CONREVSMA013.031-ND	7.10	6.52	5.92	CONREVSMA013.031
	RP-SMA Male Edge Mount for 0.062" (1.57mm) Thick Board	1.73	CONREVSMA013.062-ND	7.10	6.52	5.92	CONREVSMA013.062
	SMA Male Edge Mount for 0.031" (.79mm) Thick Board	0.94	CONSMA013.031-ND	4.65	4.27	3.88	CONSMA013.031
	SMA Male Edge Mount for 0.062" (1.57mm) Thick Board	1.73	CONSMA013.062-ND	4.65	4.27	3.88	CONSMA013.062
19	RP-SMA Female Bulkhead Rear Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONREVSMA014-ND	3.81	3.50	3.18	CONREVSMA014
	SMA Female Bulkhead Rear Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONSMA014-ND	4.41	4.05	3.68	CONSMA014
20	RP-SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-58 Cable	—	CONREVSMA014-R58-ND	3.81	3.50	3.18	CONREVSMA014-R58
	RP-SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-178 Cable	—	CONREVSMA014-R178-ND	3.81	3.50	3.18	CONREVSMA014-R178
	SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-178 Cable	—	CONSMA014-R178-ND	4.41	4.05	3.68	CONSMA014-R178
21	RP-SMA Female Bulkhead Front Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONREVSMA015-ND	4.46	4.09	3.72	CONREVSMA015
	SMA Female Bulkhead Front Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONSMA015-ND	5.12	4.70	4.27	CONSMA015
22	MCX Female PCB Mount	—	CONMCX001-ND	2.85	2.62	2.38	CONMCX001
23	MCX Female PCB Surface Mount	—	CONMCX001-SMD-ND	3.21	2.95	2.68	CONMCX001-SMD
24	MCX Female Right Angle PCB Mount	—	CONMCX002-ND	3.48	3.20	2.91	CONMCX002
25	MCX Female Right Angle PCB Surface Mount	—	CONMCX002-SMD-ND	3.92	3.60	3.27	CONMCX002-SMD
—	MCX Female Edge Mount for 0.062" (1.57mm) Thick Board	—	CONMCX003.062-ND	3.43	3.15	2.86	CONMCX003.062
26	MCX Female Bulkhead Mount Cable End Crimp for RF-178 Cable	—	CONMCX005-R178-ND	3.92	3.60	3.27	CONMCX005-R178
27	MCX Male Cable End Crimp for RG-174 Cable	2.60	CONMCX007-ND	3.05	2.80	2.55	CONMCX007
	MCX Male Cable End Crimp for RG-178 Cable	2.70	CONMCX007-R178-ND	3.05	2.80	2.55	CONMCX007-R178
28	MCX Female Cable End Crimp for RG-174 Cable	2.60	CONMCX011-ND	2.85	2.62	2.38	CONMCX011
	MCX Female Cable End Crimp for RG-178 Cable	2.00	CONMCX011-R178-ND	2.85	2.62	2.38	CONMCX011-R178
29	MCX Male Right Angle Cable End for RG-174 Cable	2.60	CONMCX012-ND	3.29	3.02	2.74	CONMCX012
	MCX Male Right Angle Cable End for RG-178 Cable	2.00	CONMCX012-R178-ND	3.29	3.02	2.74	CONMCX012-R178
—	RP-MCX Female Edge Mount for 0.062" Thick Boards - Extended	—	CONREVMCX003.062-L-ND	3.27	3.00	2.73	CONREVMCX003.062-L
29	RP-MCX Male Right Angle Cable End Crimp for RG174 Cable	2.60	CONREVMCX012-ND	3.92	3.60	3.27	CONREVMCX012
30	MMCX Female PCB Mount	—	CONMMCX001-ND	2.85	2.62	2.38	CONMMCX001
—	MMCX Female Surface Mount	—	CONMMCX001-SMD-ND	3.21	2.95	2.68	CONMMCX001-SMD
	MMCX Female Right Angle PCB Mount	—	CONMMCX002-ND	3.29	3.02	2.74	CONMMCX002
	MMCX Female Right Angle Surface Mount	—	CONMMCX002-SMD-ND	3.70	3.39	3.09	CONMMCX002-SMD
31	MMCX Male Cable End Crimp for RG174 Cable	—	CONMMCX007-ND	2.42	2.22	2.02	CONMMCX007
	MMCX Male Cable End Crimp for RG178 Cable	—	CONMMCX007-R178-ND	2.42	2.22	2.02	CONMMCX007-178
32	MMCX Female Cable End Crimp for RG174 Cable	—	CONMMCX011-ND	3.05	2.80	2.55	CONMMCX011
	MMCX Female Cable End Crimp for RG178 Cable	—	CONMMCX011-R178-ND	3.05	2.80	2.55	CONMMCX011-178
33	MMCX Male Right Angle Cable End Crimp for RG174 Cable	—	CONMMCX012-ND	3.48	3.20	2.91	CONMMCX012
	MMCX Male Right Angle Cable End Crimp for RG178 Cable	—	CONMMCX012-R178-ND	3.48	3.20	2.91	CONMMCX012-R178
34	SMA Male to RP-SMA Female Adapter	—	ADP-SMAM-RPSF-ND	5.95	5.46	4.97	ADP-SMAM-RPSF
35	SMA Female to SMA Female Adapter	—	ADP-SMAF-SMAF-ND	4.45	4.08	3.71	ADP-SMAF-SMAF
36	SMA Male to SMA Male Adapter	—	ADP-SMAM-SMAM-ND	4.79	4.40	4.00	ADP-SMAM-SMAM
37	RP-SMA Male to N Male with 8' of RG58 Low Loss Cable	—	C58LL-RPSM-2438-NM-ND	15.15	13.89	12.63	C58LL-RPSM-2438-NM
	SMA Male to N Male with 8' of RG58 Low Loss Cable	—	C58LL-SMAM-2438-NM-ND	14.60	13.39	12.17	C58LL-SMAM-2438-NM
38	N Female Bulkhead Mount Cable End Crimp for RG174 Cable	—	CONN005-ND	7.57	6.95	6.31	CONN005
39	N Female Bulkhead Mount Cable End Crimp for RG58 Cable	—	CONN005-R58-ND	7.57	6.95	6.31	CONN005-R58
40	N Male Cable End Crimp for RG174 Cable	—	CONN007-ND	6.01	5.52	5.01	CONN007
41	N Male Cable End Crimp for RG58 Cable	—	CONN007-R58-ND	6.01	5.52	5.01	CONN007-R58
42	N Female Cable End Crimp for RG174 Cable	—	CONN011-ND	4.37	4.01	3.64	CONN011
43	N Female Cable End Crimp for RG58 Cable	—	CONN011-R58-ND	4.37	4.01	3.64	CONN011-R58
44	N Male Right Angle Cable End Crimp for RG174 Cable	—	CONN012-ND	6.68	6.13	5.57	CONN012
45	N Male Right Angle Cable End Crimp for RG58 Cable	—	CONN012-R58-ND	6.68	6.13	5.57	CONN012-R58
—	CONREVSMA007 TO CONREVSMA005, 8.5" RG174 Cable	—	CSA-RPSM-216-RSFB-ND	9.16	8.40	7.64	CSA-RPSM-216-RSFB
	CONREVSMA007 TO CONSMA005, 8.5" RG174 Cable	—	CSA-RPSM-216-SAFB-ND	9.60	8.81	8.01	CSA-RPSM-216-SAFB
	CONSMA007 TO CONREVSMA005, 8.5" RG174 Cable	—	CSA-SMAM-216-RSFB-ND	9.50	8.72	7.92	CSA-SMAM-216-RSFB
	CONSMA007 TO CONSMA005, 8.5" RG174 Cable	—	CSA-SMAM-216-SAFB-ND	9.60	8.81	8.01	CSA-SMAM-216-SAFB
—	Crimper Kit for RG58/59/62	—	CTK-58-01-ND	142.80	—	—	CTK-58-01
	Crimper Kit for RG58/59/62, RG174/179 and RG178 Die	—	CTK-174-02-ND	124.00	—	—	CTK-174-02

SMB Buccaneer® Connectors

Connector Features:
• Sealed to IP68 when mated • Flex re-wireable cable accommodation **Electrical Specifications:** • Impedance: 50Ω • Insulation Resistance: 1000MΩ Maximum • Operating Temperature Range: -20°C ~ 80°C **Material Specifications:** • Body Moulding: PX0415/1 and PX0414 – Polyamide; PX0416 – PVC • Flammability Rating: UL94V-0 • O-Rings: Nitrile • Panel Sealing O-Ring: Nitrile • SMB Connector Body: Brass to QQ-B-626, Gold plated • Center Contact Plug: Brass to QQ-B-626, Gold plated; Jack: Beryllium Copper to QQ-B-530, Gold plated • Insulator: Teflon • Crimp Ferrules: Annealed Copper

Antenna Features:
• Sealed to IP68 **Electrical Specifications:** • Configuration: Half wavelength • Radiation: Omnidirectional • Polarization: Vertical • Impedance: 50Ω nominal • VSWR: <2 **Mechanical Specifications:** • Operating Temperature Range: -20°C ~ 65°C • Flammability Rating: UL94V-0

Fig. 1

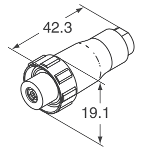

Fig. 2

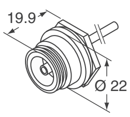

Fig. 3

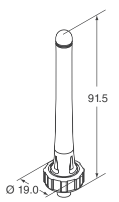

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	SMB Plug Connector for RG-174 Cable	708-1268-ND	15.84	14.71	13.01	PX0415/1
2	Panel Mount SMB Jack with 0.5m Cable	708-1272-ND	24.90	23.12	20.45	PX0414/0M50
	Panel Mount SMB Jack with 1.0m Cable	708-1273-ND	26.25	24.38	21.57	PX0414/1M00
	Panel Mount SMB Jack with 1.5m Cable	708-1274-ND	27.68	25.69	22.73	PX0414/1M50
3	SMB Antenna, IP68, 2.4 ~ 2.5GHz	708-1456-ND	15.36	13.67	11.36	PX0407
—	Sealing Cap for PX0414 Series	708-1275-ND	1.52	1.39	1.24	PX0480
	Sealing Cap for PX0415 Series	708-1276-ND	1.52	1.39	1.24	PX0481
	Sealing Cap for PX0416 Series	708-1277-ND	1.52	1.39	1.24	PX0485
	Hand Crimp Tool for SMB Connectors	708-1278-ND	259.52	—	—	14319

Pomona ELECTRONICS

RF Connectors

RoHS COMPLIANT

Fig. 1
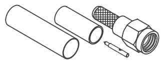

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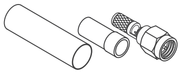

Fig. 3
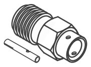

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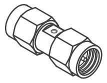

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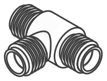

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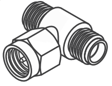

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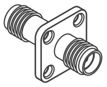

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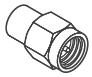

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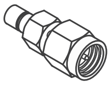

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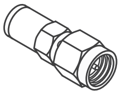

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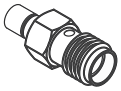

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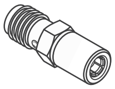

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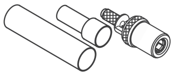

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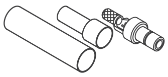

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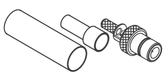

Fig. 16
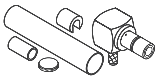

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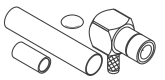

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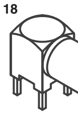

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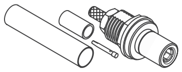

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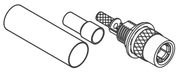

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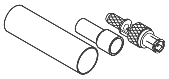

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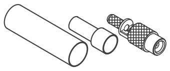

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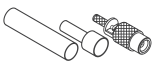

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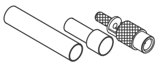

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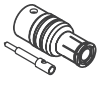

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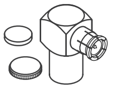

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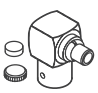

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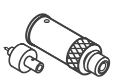

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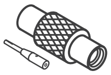

Fig. 30

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	SMA Plug Straight Crimp, RG58	501-1250-ND	4.61	4.17	72943
2	SMA Plug Straight Crimp, RG141	501-1251-ND	4.98	4.50	72944
3	SMA Jack Straight Crimp, RG141	501-1252-ND	5.21	4.71	72952
4	SMA Plug (Male) ~ Plug (Male)	501-1253-ND	6.72	6.08	72964
5	SMA “T” Type Jack (Female) ~ Jack (Female) ~ Jack (Female)	501-1254-ND	12.77	11.54	72968
6	SMA “T” Type Jack (Female) ~ Plug (Male) ~ Jack (Female)	501-1255-ND	12.42	11.22	72969
7	SMA Jack (Female) ~ Jack (Female), Panel	501-1256-ND	12.85	11.61	72973
8	SMA Plug, 50ohm Termination	501-1257-ND	19.34	17.48	72975
9	SMA (Male) ~ SMB (Male)	501-1258-ND	7.75	7.01	72976
10	SMA (Male) ~ SMB (Female)	501-1259-ND	7.62	6.89	72977
11	SMA (Female) ~ SMB (Male)	501-1260-ND	10.21	9.23	72978
12	SMA (Female) ~ SMB (Female)	501-1261-ND	10.08	9.11	72979
13	SMB Straight Plug Crimp, RG174/188/316	501-1262-ND	5.83	5.27	72981
14	SMB Jack Straight Crimp, RG174/188/316	501-1263-ND	7.32	6.62	72984
15	SMB Jack Straight Crimp, RG179/187	501-1264-ND	7.32	6.62	72985

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
16	SMB Jack Right Angle Crimp, RG178/196	501-1265-ND	6.41	5.79	72991
16	SMB Jack Right Angle Crimp, RG174/188/316	501-1266-ND	7.57	6.84	72992
17	SMB Jack Right Angle Crimp, RG179/187	501-1267-ND	7.57	6.84	72993
18	SMB Plug Right Angle PCB Receptacle	501-1268-ND	6.24	5.64	72997
19	SMB Bulkhead Plug, RG174/188/316	501-1269-ND	5.18	4.68	73000
20	SMB Bulkhead Plug, RG179/187	501-1270-ND	5.18	4.68	73001
21	MCX Plug Straight Crimp, RG179	501-1271-ND	5.61	5.07	73004
22	MCX Jack Straight Crimp, RG174/316	501-1272-ND	4.60	4.16	73010
23	MCX Jack Straight Crimp, RG178	501-1273-ND	4.65	4.20	73011
24	MCX Jack Straight Crimp, RG179	501-1274-ND	5.48	4.95	73012
25	MCX Plug Straight Semi-Rigid, RG402	501-1275-ND	4.42	3.99	73014
26	MCX Plug Right Angle Semi-Rigid, RG402	501-1276-ND	5.13	4.64	73016
27	MMCX Plug Right Angle Semi-Rigid, RG402	501-1277-ND	6.72	6.08	73032
28	MMCX Plug Straight Semi-Rigid, RG402	501-1278-ND	6.29	5.69	73034
29	MMCX Jack Straight Semi-Rigid, RG405	501-1279-ND	6.59	5.96	73037
30	MMCX Jack Straight Edgecard	501-1280-ND	6.29	5.69	73039

F Connectors

RoHS COMPLIANT

Dimensions in Inches (mm)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	F Type Female-Female Bulkhead to Panel Feed Through	501-1143-ND	1.54	1.40	6706
2	F Type Female-Male Push-On Adapter	501-1144-ND	2.44	2.21	6713
3	F (Male-Female) Right Angle, 75Ω	501-1159-ND	3.52	3.18	6800
4	F (Male-Female) In-Line, 75Ω	501-1160-ND	1.33	1.20	6801

Fig. 1
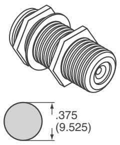

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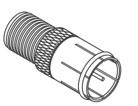

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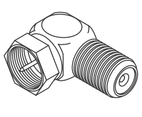

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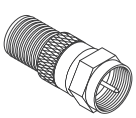

CUI INC

F Connectors

Fig. 1

Fig. 2
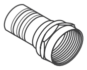

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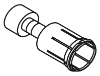

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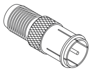

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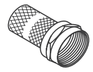

Fig. 6

Fig. 7
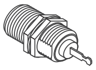

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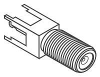

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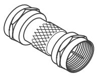

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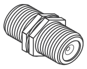

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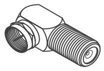

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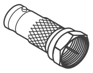

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	1,000
1	Separated Crimp Ring, for RG-59 Cable	CP-0010-ND◆	.66	5.72	44.00	330.00
	Separated Crimp Ring, for RG-6 Cable	CP-0060-ND	.66	5.72	44.00	330.00
2	Long Type Built-On Crimp Ring, for RG-59 Cable	CP-0210-ND	1.02	8.84	68.00	510.00
	Long Type Built-On Crimp Ring, for RG-6 Cable	CP-0260-ND	1.02	8.84	68.00	510.00
3	Push-On, Crimp Type, for RG-59 Cable	CP-0310-ND	1.74	15.08	116.00	870.00
4	Adapter, Screw-On/Push-On	CP-2000-ND◆	1.14	9.88	76.00	570.00
5	Twist-On Type, for RG-59 Cable	CP-0410-ND	1.17	10.14	78.00	585.00

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	1,000
6	Male Terminator, with Built-In 75 Ohm Resistor	CP-0610-ND	.75	6.50	50.00	375.00
7	Female Bulkhead Receptacle, with Washer and Nut	CP-1010-ND◆	.78	6.76	52.00	390.00
8	PCB Type, Full Length 26mm	CP-1210-ND◆	1.38	11.96	92.00	690.00
9	Adapter, Universal Male F to F Coupler	CP-2010-ND	2.61	22.62	174.00	1305.00
10	Adapter, Female F to F Coupler, with Washer and Nut	CP-2110-ND◆	.93	8.06	62.00	465.00
11	Adapter, Right Angle F Male to F Female	CP-2510-ND	2.64	22.88	176.00	1320.00
12	Adapter, F Male to BNC Female	CP-0130-ND◆	2.94	25.48	196.00	1470.00

◆ ***RoHS Compliant***

Paladin Tools® 8000 and 1300 Series Crimper and Die Sets

8000 and 1300 Series Crimper

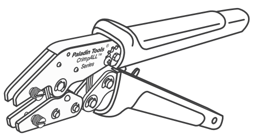

8000 Series: Ergonomic Crimper that uses the same dies as the 1300 Series. Easiest crimper on the market to use, crimp with one hand effortlessly. Ultra-smooth ratchet design, rubber grip handles with reduced grip distance. Over 50 interchangeable die sets available.

1300 Series: The Original crimp frame with interchangeable die sets. Ratcheted crimper with quick change EZI-CHANGE™ die screws. Precision crimping at an affordable price.

PA8000-ND	**(8000)** 8000 Series Crimper (frame only)	**$58.99**
PA1302-ND	**(1302)** 1300 Series Crimper (frame only)	**$42.99**
PA901381-ND	**(901381)** Cordura Storage Case	**$39.99**

Die Sets

Description	Digi-Key Part No.	Price Each	Paladin Tools Part No.
Coaxial Cable			
BNC/TNC 3 Piece RG58, RG59, RG62AU	PA2034-ND	25.99	2034
SMA, SMB, Mini-59 BNC/TNC, Mini UHF RG58, Mini-59, RG174, Small Coaxial and Belden 1855A	PA2653-ND	25.99	2653
CATV "F" Type RG-59 and RG6 Video Cable	PA2042-ND	25.99	2042
BNC, CATV "F" Type and HDTV, RG6, RG6 Quad and Belden 1694A	PA2045-ND	25.99	2045
BNC/TNC RG174, RG179 and Small Cable Connectors	PA2051-ND	25.99	2051
RJ45 and RG6/RG6 Quad CATV "F" - UTP 4-Pair and RG6/RG6 Quad Coaxial	PA2687-ND	31.99	2687
Twisted Pair Cable			
RJ45 - 8P8C (8 Pin) - Flat/Round, Solid/Stranded RJ45 unkeyed	PA2064-ND	25.99	2064
RJ50 - 10P10C (10 Pin) - Flat/Round, Solid/Stranded RJ50 unkeyed	PA2068-ND	25.99	2068
Electrical and Industrial Cable			
Insulated Terminals and Lugs, Solid or Stranded Wire, 22 ~ 10AWG, for Large Professional Terminals	PA2035-ND	25.99	2035
Open Barrel, Non-Insulated Terminals and Lugs - Narrow, Stranded Wire 22 ~ 10AWG for Standard Commercial Terminals	PA2033-ND	25.99	2033
Insulated and Non-Insulated Wire Ferrules, Stranded Wire 22 ~ 10AWG	PA2095-ND	25.99	2095
Open-Barrel, D-Sub Contact Pins, Stranded Wire 28 ~ 20AWG for Standard D-Sub Pins	PA2097-ND	25.99	2097
Insulated Terminals and Lugs, Solid and Stranded Wire 26 ~ 14AWG for Small Wire Barrel Terminals	PA2029-ND	25.99	2029

SMA Attenuators

Electrical Specifications: • Impedence: 50Ω Nominal • Frequency Range: 0 ~ 6GHz • Attenuation Values (Initial): 1,2,3,6, and 10dB Nominal • Attenuation Accuracy: see chart • Average Input Power: 2W Maximum @ +25°C **Mechanical Specifications:** • Engagement Design: MIL-STD-348A, Series SMA • Configuration: Coaxial In-Line, SMA Plug to SMA Jack, 5/16" Hex Body • Overall Length: 0.87"±0.02" for values between 1 ~ 10dB • Durability: 500 Cycles Minimum (both ends) **Environmental Specifications:** • Operating Temperature: -55°C ~ 125°C • Thermal Shock: MIL-STD-202, Method 107, Condition B (except high temp +100°C) • Shock: MIL-STD-202, Method 213, Condition I • Vibration: MIL-STD-202, Method 204, Condition D

Attenuation Accuracy		
dB	**DC-4 GHz**	**4-6GHz**
1 ~ 3	±0.3	±0.5
6	±0.4	±0.5
10	±0.5	±0.5

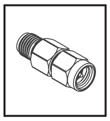

dB	Digi-Key Part No.	Price Each 1	10	100	250	Emerson Part No.
1	J993-ND	26.13	23.28	17.10	15.68	141-3901-801
2	J994-ND	26.13	23.28	17.10	15.68	141-3901-802
3	J995-ND	26.13	23.28	17.10	15.68	141-3901-803
6	J996-ND	26.13	23.28	17.10	15.68	141-3901-806
10	J997-ND	26.13	23.28	17.10	15.68	141-3901-810

RF Connectors MCX and MMCX Type

FEATURES: • 30% Smaller than SMB • Rugged snap-on mating design • Captivated contact **ELECTRICAL RATINGS:** • **Impedance:** 50Ω • **Frequency Range:** 0 ~ 6GHz **MECHANICAL RATING: Durability:** 500 cycles minimum

Fig. 1 – Right Angle Crimp Plug

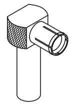

Fig. 2 – Straight Cable Plug

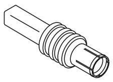

Fig. 3 – Straight Crimp Type Bulkhead Jack

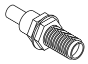

Fig. 4 – Straight Plug Receptacle

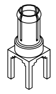

Fig. 5 – Straight PC Mount Jack

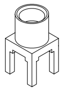

Fig. 6 – Right Angle PC Mount Jack

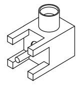

Fig. 7 – Front Mount Bulkhead Jack Receptacle

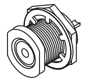

Fig. 8 – End Launch Jack

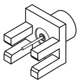

Fig. 9 – SMT Straight Jack

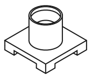

Fig. 10 – SMT Right Angle Jack

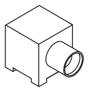

Fig. 11 – Straight Jack Receptacle - 2.54mm

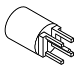

Fig. 12 – Right Angle Crimp Plug

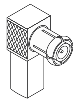

Fig. 13 – Straight Jack Receptacle

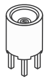

Fig. 14 – Right Angle Jack Receptacle

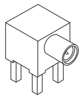

Fig. 15 – Straight Crimp Plug

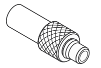

Fig. 16 – Straight Jack Receptacle

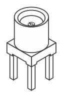

Fig. 17 – Right Angle Jack Receptacle

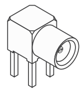

Fig. 18 – End Launch Jack Receptacle

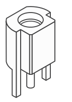

Fig.	Type (Description)	Plating	Digi-Key Part No.	Price Each 1	10	50	100	Johnson Part No.
MCX Connectors								
50 Ohm								
1	R/A Crimp Plug	Gold	J531-ND	4.78	4.26	3.48	3.13	133-3402-101
	R/A Crimp Plug	Gold	J535-ND	4.35	3.88	3.17	2.85	133-3403-101
	R/A Crimp Plug	Nickel	J536-ND	4.36	3.89	3.17	2.86	133-3403-106
	R/A Crimp Plug	Nickel	J720-ND	4.36	3.89	3.17	2.86	133-3404-106
	R/A Crimp Plug	Gold	J721-ND	4.53	4.04	3.30	2.97	133-3693-101
2	Straight Cable Plug	Gold	J533-ND	5.02	4.48	3.66	3.29	133-3403-001
	Straight Cable Plug	Nickel	J534-ND	3.52	3.14	2.57	2.31	133-3403-006
4	Straight Plug Receptacle	Gold	J612-ND	7.42	6.61	5.40	4.86	133-3801-201
5	Straight Jack PCB	Gold	J537-ND	3.96	3.53	2.89	2.60	133-3701-201
	Straight Jack PCB	Nickel	J538-ND	3.40	3.04	2.48	2.23	133-3701-206
	Straight Jack PCB	Gold	J539-ND	4.13	3.68	3.00	2.70	133-3701-211
	Straight Jack PCB	Nickel	J540-ND	3.93	3.50	2.86	2.58	133-3701-216
6	R/A PC Jack	Gold	J541-ND	10.44	9.31	7.60	6.84	133-3701-301
	R/A PC Jack	Nickel	J542-ND	10.22	9.11	7.43	6.69	133-3701-306
	R/A PC Jack	Gold	J543-ND	10.69	9.53	7.78	7.00	133-3701-311
	R/A PC Jack	Nickel	J544-ND	7.84	6.99	5.71	5.14	133-3701-316
7	Bulkhead Jack	Gold	J545-ND	6.20	5.53	4.52	4.07	133-3701-401
	Bulkhead Jack	Nickel	J546-ND	6.00	5.35	4.37	3.93	133-3701-406
8	End Launch Jack	Gold	J547-ND	6.00	5.35	4.37	3.93	133-3701-801
9	SMT Jack	Gold	J548-ND	6.13	5.46	4.46	4.02	133-3711-201
10	R/A SMT Jack	Gold	J549-ND	10.01	8.92	7.28	6.56	133-3711-301
11	Vertical Jack PCB	Gold	J611-ND	4.70	4.19	3.42	3.08	133-3701-231
75 Ohm								
1	R/A Crimp Plug	Gold	J643-ND	5.22	4.65	3.80	3.42	133-8433-101
	R/A Crimp Plug	Gold	J644-ND	5.22	4.65	3.80	3.42	133-8434-101
2	Straight Cable Plug	Gold	J645-ND	8.71	7.77	6.34	5.71	133-8433-001
3	Bulkhead Jack	Gold	J647-ND	10.49	9.35	7.64	6.87	133-8333-401
5	Straight Jack PCB	Gold	J649-ND	8.48	7.56	6.17	5.56	133-8701-201
	Straight Jack PCB	Gold	J650-ND	5.36	4.78	3.90	3.51	133-8701-211
6	R/A PCB Jack	Gold	J652-ND	7.98	7.12	5.81	5.23	133-8701-311
8	End Launch Jack	Gold	J653-ND	4.82	4.29	3.51	3.16	133-8701-801
9	SMT Jack	Gold	J654-ND	5.31	4.74	3.87	3.48	133-8711-201
Non-Magnetic MCX Connectors								
1	R/A Crimp Plug	Gold	J680-ND	7.98	7.11	5.81	5.23	133-9403-101
	R/A Crimp Plug	Gold	J681-ND	10.36	9.24	7.54	6.79	133-9404-101
2	Straight Cable Plug	Gold	J678-ND	10.15	9.05	7.39	6.65	133-9403-001
5	Straight Jack PCB	Gold	J682-ND	5.46	4.87	3.98	3.58	133-9701-201
	Straight Jack PCB	Gold	J683-ND	6.34	5.65	4.61	4.15	133-9701-211
6	R/A PC Jack	Gold	J685-ND	10.58	9.28	7.98	6.84	133-9701-311
8	End Launch Jack	Gold	J686-ND	10.80	9.62	7.86	7.07	133-9701-801
12	R/A Crimp Plug	Gold	J10062-ND	8.25	7.35	6.00	5.40	133-9402-101
13	Straight Jack PCB	Gold	J10063-ND	7.77	6.93	5.65	5.09	133-9701-231
14	R/A Jack PCB	Gold	J684-ND	9.90	8.82	7.20	6.48	133-9701-301
Right Angle Plug Assembly Tool			J574-ND	379.46/1				141-0000-908
Hand Crimp Tool (frame only)			J572-ND	94.54/1				140-0000-952
Die Set (RG178, 316)			J573-ND	114.80/1				140-0000-951
Non-Magnetic MMCX Type								
1	R/A Crimp Plug	Gold	J10065-ND	14.03	12.50	10.20	9.18	135-9402-111
	R/A Crimp Plug	Gold	J10067-ND	13.61	12.13	9.90	8.91	135-9403-101
	R/A Crimp Plug	Gold	J10069-ND	14.03	12.50	10.20	9.18	135-9436-101
15	Straight Crimp Plug	Gold	J10064-ND	8.94	7.97	6.50	5.85	135-9402-001
	Straight Crimp Plug	Gold	J10066-ND	8.94	7.97	6.50	5.85	135-9403-001
	Straight Crimp Plug	Gold	J10068-ND	9.63	8.58	7.00	6.30	135-9436-001
16	Straight Jack PCB	Gold	J10070-ND	6.46	5.76	4.70	4.23	135-9701-201
	Straight Jack PCB	Gold	J10071-ND	6.46	5.76	4.70	4.23	135-9701-211
17	R/A Jack PCB	Gold	J10072-ND	8.39	7.48	6.10	5.49	135-9701-301
	R/A Jack PCB	Gold	J10073-ND	8.39	7.48	6.10	5.49	135-9701-311
18	End Launch SMD	Gold	J10074-ND	7.43	6.62	5.40	4.86	135-9711-801

RF Connectors SMA/SMB Type

Fig. 1

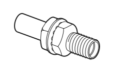

Fig. 2

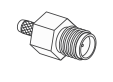

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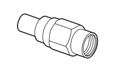

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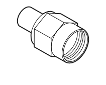

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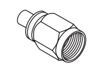

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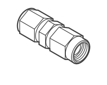

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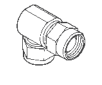

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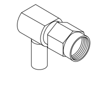

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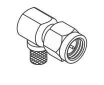

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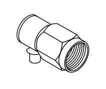

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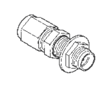

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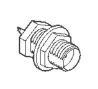

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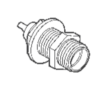

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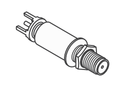

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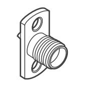

Fig. 16

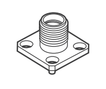

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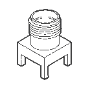

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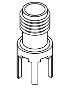

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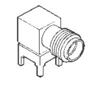

Fig. 20

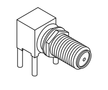

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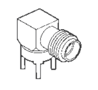

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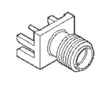

Fig. 23

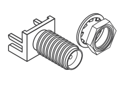

Fig. 24

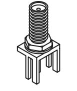

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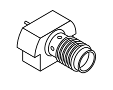

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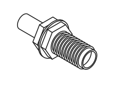

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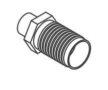

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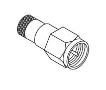

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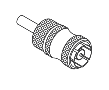

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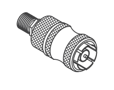

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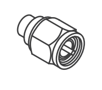

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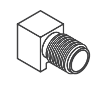

Fig. 33

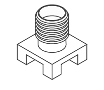

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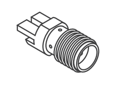

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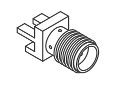

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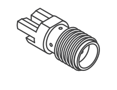

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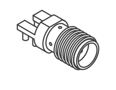

Fig. 38

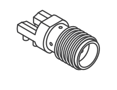

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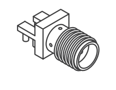

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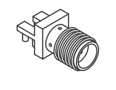

Fig. 41

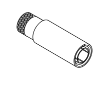

Fig. 42

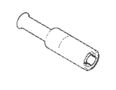

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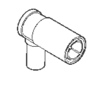

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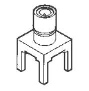

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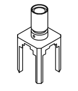

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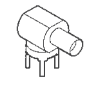

Fig. 47

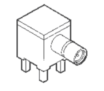

Fig. 48

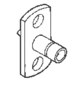

Fig. 49

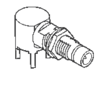

Fig. 50

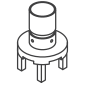

Fig. 51

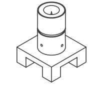

Fig. 52

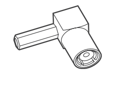

Fig. 53

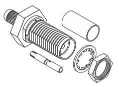

Fig. 54

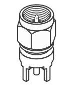

Fig. 55

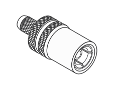

Fig.	Type (Description)	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
			SMA Type				
1	Crimp	Gold	J523-ND	11.23	10.01	8.17	142-0303-411
	Crimp	Nickel	J524-ND	7.95	7.09	5.79	142-0303-416
2	Crimp	Gold	J990-ND	6.29	5.61	4.58	142-0303-011
3	Crimp	Gold	J525-ND	6.77	6.03	4.92	142-0403-011
	Crimp	Nickel	J526-ND	4.58	4.08	3.33	142-0403-016
4	Solder	Gold	J485-ND	2.24	2.00	1.63	142-0694-011
	Solder	Nickel	J486-ND	1.84	1.64	1.34	142-0694-016
	Solder	Gold	J487-ND	5.49	4.90	4.00	142-0693-001
	Solder	Nickel	J488-ND	4.93	4.40	3.59	142-0693-006
	Solder	Nickel	J725-ND	5.82	5.19	4.24	142-0693-066
	Solder	Nickel	J726-ND	5.82	5.19	4.24	142-0694-066
5	Crimp	Gold	J605-ND	6.40	5.71	4.66	142-0402-011
	Crimp	Gold	J637-ND	6.94	6.19	5.05	142-0439-001
	Crimp	Gold	J638-ND	6.94	6.19	5.05	142-0435-001
	Crimp	Gold	J813-ND	6.27	5.59	4.57	142-0408-011
6	Clamp	Gold	J474-ND	11.28	10.05	8.21	142-0203-011
	Clamp	Nickel	J475-ND	10.30	9.18	7.50	142-0203-016
	Clamp	Gold	J480-ND	18.08	16.11	13.15	142-0207-011
	Clamp	Nickel	J481-ND	17.06	15.20	12.41	142-0207-016
7	Clamp	Nickel	J477-ND	8.38	7.47	6.10	142-0203-106
	Clamp	Nickel	J484-ND	9.42	8.39	6.85	142-0207-106
8	Crimp	Gold	J510-ND	7.42	6.61	5.40	142-0403-101
	Crimp	Gold	J639-ND	9.76	8.70	7.10	142-0439-101
	Crimp	Gold	J640-ND	10.84	9.66	7.89	142-0435-101
	Crimp	Gold	J713-ND	10.01	8.92	7.29	142-0404-101
9	Crimp	Gold	J991-ND	6.70	5.98	4.88	142-0408-101
10	Solder	Gold	J606-ND	9.12	8.13	6.64	142-0693-101
	Solder	Gold	J607-ND	8.95	7.98	6.51	142-0694-101
11	Clamp	Gold	J478-ND	12.36	11.02	8.99	142-0103-401
12	Panel Mt.	Gold	J490-ND	7.65	6.82	5.57	142-0701-401
13	Panel Mt.	Gold	J489-ND	6.94	6.19	5.05	142-0701-411
14	Panel Mt	Gold	J998-ND	10.01	8.92	7.28	142-0701-491
15	Flange Mt.	Gold	J492-ND	8.20	7.31	5.97	142-0701-621
16	Flange Mt.	Gold	J493-ND	5.62	5.01	4.09	142-0701-631
17	PC Mt.	Gold	J494-ND	10.44	9.31	7.60	142-0701-211
	PC Mt.	Nickel	J495-ND	6.71	5.98	4.88	142-0701-216
18	PC Mt.	Gold	J500-ND	4.67	4.17	3.40	142-0701-201
	PC Mt.	Nickel	J840-ND	4.60	4.10	3.35	142-0701-206
	PC Mt.	Gold	J608-ND	7.19	6.41	5.23	142-0701-231
19	PC Mt.	Gold	J496-ND	11.80	10.52	8.58	142-0701-321
	PC Mt.	Nickel	J497-ND	10.65	9.49	7.75	142-0701-326
20	PC Mt.	Gold	J569-ND	15.31	13.65	11.14	142-0701-501
	PC Mt.	Nickel	J714-ND	14.63	13.04	10.64	142-0701-506
	PC Mt.	Gold	J715-ND	11.12	9.91	8.09	142-0701-551
21	PC Mt.	Gold	J501-ND	10.97	9.78	7.98	142-0701-301
	PC Mt.	Nickel	J988-ND	7.35	6.55	5.35	142-0701-306
22	.062" PC Mt.	Gold	J502-ND	5.10	4.55	3.71	142-0701-801
	.062" PC Mt.	Nickel	J716-ND	4.84	4.32	3.53	142-0701-806
	.062" PC Mt.	Gold	J629-ND	6.09	5.43	4.44	142-0711-821
	.031" PC Mt.	Gold	J657-ND	8.63	7.69	6.28	142-0701-881
	.062" PC Mt.	Gold	J658-ND	9.15	8.16	6.66	142-0701-851
	.042" PC Mt.	Gold	J630-ND	10.96	9.77	7.98	142-0701-841
23	.062" PC Mt.	Gold	J992-ND	5.47	4.88	3.98	142-0711-851
24	PC Mt.	Gold	J610-ND	10.34	9.22	7.52	142-0701-871
25	PC Mt.	Gold	J631-ND	7.92	7.06	5.76	142-0721-881
26	Crimp	Gold	J641-ND	10.73	9.57	7.81	142-0339-401
	Solder	Gold	J809-ND	12.39	11.04	9.01	142-0593-421
	Solder	Gold	J810-ND	12.39	11.04	9.01	142-0594-421
	Solder	Gold	J811-ND	15.39	13.71	11.20	142-0593-431
	Solder	Gold	J812-ND	15.39	13.71	11.20	142-0594-431
27	Solder	Gold	J723-ND	6.52	5.82	4.75	142-0594-001
	Solder	Nickel	J724-ND	7.14	6.27	5.39	142-0594-006
	Solder	Gold	J727-ND	4.83	4.31	3.52	142-0593-001
28	50Ω Terminator	Gold	J634-ND	32.62	29.07	23.73	142-0801-861
29	Quick Connect	Gold	J706-ND	23.33	20.79	16.97	142-1403-001
	Quick Connect	Gold	J707-ND	23.33	20.79	16.97	142-1404-001
	Quick Connect	Gold	J708-ND	23.33	20.79	16.97	142-1407-001
	Quick Connect	Gold	J709-ND	23.33	20.79	16.97	142-1408-001
30	Adapter	Gold	J710-ND	34.99	31.18	25.45	142-1901-821
31	Slide-On	Gold	J711-ND	6.19	5.52	4.51	142-0693-061
	Slide-On	Gold	J712-ND	6.19	5.52	4.51	142-0694-061
	Solder	Gold	J814-ND	2.35	2.09	1.71	142-0694-021
32	SMT	Gold	J717-ND	9.26	8.26	6.74	142-0711-301
33	SMT	Gold	J819-ND	4.55	4.06	3.31	142-0711-201
34	Edge Mt.	Gold	J799-ND	8.45	7.53	6.15	142-0761-841
	Edge Mt.	Gold	J805-ND	8.45	7.53	6.15	142-0761-861
35	Edge Mt.	Gold	J800-ND	8.45	7.53	6.15	142-0761-851
	Edge Mt.	Gold	J820-ND	6.46	5.76	4.70	142-0711-841
	Edge Mt.	Gold	J806-ND	8.45	7.53	6.15	142-0761-871
36	Edge Mt.	Gold	J802-ND	8.45	7.53	6.15	142-0761-891
	Edge Mt.	Gold	J808-ND	8.45	7.53	6.15	142-0771-831
37	PC Mt.	Gold	J797-ND	8.45	7.53	6.15	142-0761-801
	PC Mt.	Gold	J803-ND	8.45	7.53	6.15	142-0761-821
38	PC Mt.	Gold	J801-ND	11.20	9.98	8.15	142-0761-881
	PC Mt.	Gold	J807-ND	8.45	7.53	6.15	142-0771-821
39	PC Mt.	Gold	J804-ND	8.45	7.53	6.15	142-0761-831
40	PC Mt.	Gold	J798-ND	8.45	7.53	6.15	142-0761-811
			SMB Type				
41	50Ω Terminator	Gold	J635-ND	14.67	13.08	10.68	131-3801-811
42	Crimp	Nickel	J464-ND	5.24	4.67	3.81	131-1403-016
43	Crimp	Gold	J465-ND	7.76	6.92	5.65	131-1403-101
	Crimp	Nickel	J466-ND	6.52	5.81	4.75	131-1403-116
	Crimp	Nickel	J815-ND	4.75	4.24	3.46	131-1404-116

† **J613 and J614** Leg Length: .155”; **J469, J615 and J616** Leg Length: .095”

(Continued)

RF Connectors SMA/SMB Type *(Cont.)*

Fig.	Type (Description)	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
45	PC Mt.	Gold	J613-ND†	2.16	1.93	1.57	131-3701-261
	PC Mt.	Nickel	J614-ND†	2.05	1.83	1.50	131-3701-266
	PC Mt.	Gold	J615-ND†	2.16	1.93	1.57	131-3701-271
	PC Mt.	Nickel	J616-ND†	2.05	1.83	1.50	131-3701-276
46	PC Mt.	Gold	J472-ND	7.08	6.31	5.15	131-3701-301
	PC Mt.	Gold	J818-ND	9.38	8.36	6.83	131-8701-301
47	PC Mt.	Gold	J470-ND	7.38	6.58	5.37	131-1701-371
	PC Mt.	Nickel	J471-ND	7.11	6.34	5.17	131-1701-376
48	Panel Mt.	Gold	J520-ND	7.22	6.44	5.26	131-3701-621
49	PC Mt.	Gold	J522-ND	9.10	8.11	6.62	131-3701-341
	PC Mt.	Gold	J719-ND	10.61	9.46	7.72	131-3701-501
50	PC Mt.	Gold	J718-ND	3.10	2.77	2.26	131-3701-201
	PC Mt.	Nickel	J817-ND	3.22	2.88	2.35	131-8701-206
51	SMT	Gold	J816-ND	5.07	4.52	3.69	131-3711-201
Non-Magnetic SMA Connectors							
4	Crimp	Gold	J660-ND	13.07	11.64	9.51	142-9403-011
	Crimp	Gold	J661-ND	12.38	11.03	9.00	142-9404-011
	Crimp	Gold	J664-ND	14.15	12.61	10.30	142-9407-001
10	Crimp	Gold	J662-ND	19.60	17.46	14.26	142-9403-101
	Crimp	Gold	J663-ND	21.21	18.72	16.00	142-9404-101
	Crimp	Gold	J665-ND	20.14	17.95	14.65	142-9407-101
18	PC Mt.	Gold	J666-ND	9.43	8.40	6.86	142-9701-201
	PC Mt.	Gold	J667-ND	8.25	7.35	6.00	142-9701-211
21	PC Mt.	Gold	J668-ND	15.13	13.48	11.00	142-9701-301

Fig.	Type (Description)	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
22	PC Mt.	Gold	J669-ND	11.21	10.00	8.16	142-9701-801
	PC Mt.	Gold	J670-ND	11.21	10.00	8.16	142-9701-811
53	Panel Mt.	Gold	J10075-ND	15.81	14.09	11.50	142-9303-411
54	PC Mt.	Gold	J10076-ND	12.79	11.40	9.30	142-9801-201
Non-Magnetic SMB Connectors							
42	Crimp	Gold	J671-ND	15.74	14.02	11.45	131-9403-001
44	PC Mt.	Gold	J675-ND	9.36	8.35	6.81	131-9701-201
	PC Mt.	Gold	J676-ND	9.36	8.35	6.81	131-9701-211
46	PC Mt.	Gold	J677-ND	16.64	14.83	12.11	131-9701-301
52	Crimp	Gold	J673-ND	22.12	19.71	16.09	131-9403-101
	Crimp	Gold	J674-ND	22.12	19.71	16.09	131-9404-101
55	Crimp/Solder	Gold	J10060-ND	13.89	12.38	10.10	131-9403-021
	Crimp/Solder	Gold	J10061-ND	13.89	12.38	10.10	131-9404-021
Tools							
Crimp Tool Frame			J572-ND	94.54	—	—	140-0000-952
Die Set for SMA, SMB Type (RG178, 316, 316DS, 58)			J573-ND	114.80	—	—	140-0000-951
Semi-Rigid Cable Vice Tool			J702-ND	557.92	—	—	140-0000-962
Cable Clamp Inserts, .086 Semi-Rigid Tool			J703-ND	96.30	—	—	140-0000-964
Cable Clamp Inserts, .141 Semi-Rigid Tool			J704-ND	96.30	—	—	140-0000-965
SMA Jack End Launch Assembly Location Soldering Tool			J10081-ND	4.18	—	—	140-0000-973

† **J613 and J614** Leg Length: .155”; **J469, J615 and J616** Leg Length: .095”

SMP Blind-Mate Connectors

Emerson’s new Johnson® line of SMP Blind-Mate Connectors offers a Micro-Miniature, Slide-On/Snap-On Interconnect System that aids in the design of high density packaging as well as axial and radial misalignment issues. The SMP interface offers superior performance up to 40 GHz and is compatible with all SMP and GPO® Connectors. They offer high electrical reliability where extreme shock and vibration conditions are experienced.

Dim. in mm

Fig. 1

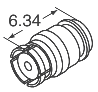

Fig. 2

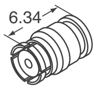

Fig. 3

Digi-Key Part-No.	Dim. A
J10002-ND	6.30
J10003-ND	6.88

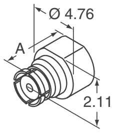

Fig. 4

Digi-Key Part-No.	Dim. A
J10004-ND	5.54
J10005-ND	5.54
J10006-ND	5.54
J10007-ND	5.94

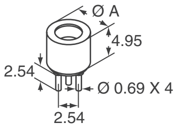

Fig. 5

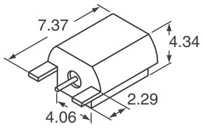

Fig. 6

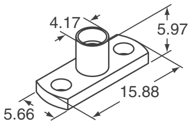

Fig. 7

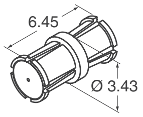

Fig	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	Straight Solder Female M17/151	J10000-ND	9.28	8.12	7.66	127-0692-001
2	Straight Solder Female RG 405	J10001-ND	8.70	7.62	7.18	127-0693-001
3	Right Angle Solder Female M17/151	J10002-ND	13.92	12.18	11.49	127-0692-101
	Right Angle Solder Female RG 405	J10003-ND	11.60	10.15	9.57	127-0693-101
4	Receptacle Straight PC Mount Male Full Dent	J10004-ND	9.86	8.63	8.14	127-0701-201
	Receptacle Straight PC Mount Male Limited Dent	J10005-ND	9.86	8.63	8.14	127-1701-201
	Receptacle Straight PC Mount Male Smooth Bore	J10006-ND	9.86	8.63	8.14	127-2701-201
	Receptacle Straight PC Mount Male Catchers Mit	J10007-ND	9.86	8.63	8.14	127-3701-201
5	End launch Receptacle Male FD SMT	J10008-ND	9.86	8.63	8.14	127-0701-801
	End launch Receptacle Male LD SMT	J10009-ND	9.86	8.63	8.14	127-1701-801
	End launch Receptacle Male SB SMT	J10010-ND	9.86	8.63	8.14	127-2701-801
6	Flange Mount Male Field Receptacle FD	J10015-ND	14.50	12.69	11.97	127-0701-612
	Flange Mount Male Field Receptacle LD	J10016-ND	15.08	13.20	12.45	127-1701-612

Fig	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
7	Female-Female Bullet Adapter	J10021-ND	8.70	7.62	7.18	127-0901-801
—	SMP Bullet Extraction Tool	J10023-ND	159.60	—	—	127-0000-900
	SMP Cabled Connector Removal Tool	J10024-ND	14.63	—	—	127-0000-901
	SMP Center Contact Holder	J10025-ND	7.98	—	—	127-0000-902
	SMP Interface Locator Tool	J10026-ND	19.95	—	—	127-0000-903
	SMP Right Angle Body Holder	J10027-ND	7.98	—	—	127-0000-904
	SMP FD Shroud Centering Tool	J10028-ND	7.98	—	—	127-0000-905
	SMP LD Shroud Centering Tool	J10029-ND	7.98	—	—	127-0000-906
	SMP SB Shroud Centering Tool	J10030-ND	7.98	—	—	127-0000-907
	Adapter Male CM/Male FD	J10031-ND	14.50	12.69	11.97	127-0901-822
	Adapter Male CM/Male LD	J10032-ND	14.50	12.69	11.97	127-1901-822
	Adapter Male CM/Male SB	J10033-ND	14.50	12.69	11.97	127-2901-822

KwiQMAte™
QMA Type Connectors

These connectors meet or exceed the performance requirements of MIL-PRF-39012. All designs are based on 50Ω system impedance per, and operate at frequencies up to 12GHz. **Features**: • All contacts are plated with 50µ” of gold for excellent durability and high frequency performance • Connector bodies are offered with Tri-Alloy as a standard finish, and gold plating where soldering is required • Interfaces semi-rigid jack bodies • Cabled contacts are captivated upon assembly • Flexible cable contacts can be crimped or soldered • Assembly tooling is available to aid cable termination procedure to semi-rigid cable • The right angle PC mount features a rugged on-piece body with a one-piece swept contact

Fig. 1

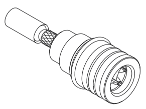

Fig. 2

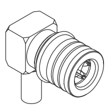

Fig. 3

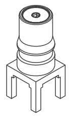

Fig. 4

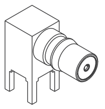

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Emerson Part No.
1	Three Piece Plug Crimp Type, RG-316 QMA	J10077-ND	5.91	5.27	4.30	146-0403-007
2	R/A Plug QMA Type, Crimp Type, RG-316	J10078-ND	6.41	5.71	4.66	146-0403-107

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Emerson Part No.
3	Jack Assembly Striaght PC Mount QMA	J10079-ND	6.05	5.39	4.40	146-0701-201
4	Jack Assembly RA PC Mount, .155 Legs QMA	J10080-ND	6.88	6.13	5.00	146-0701-301

SMK (2.92mm) Connectors

RoHS COMPLIANT

SMK Connectors provide an excellent solution for applications requiring high frequency transmission. Similar to the SMA interface, a smaller internal body diameter (2.92mm) and air dielectric provide a higher cutoff frequency and other key advantages: • Superior electrical performance to 40GHz • Female contacts have a three-slot construction, which enhances connectivity • The Field Replacement Jacks with a high quality hermetic seal feed thru for use in sealed circuit modules • The SMK plug interface employs more precise dimensions than an SMA and uses a shorter snub nose male pin such that the connector bodies align before the contacts engage

Dim. in mm

Fig. 1

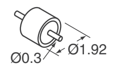

Fig. 2

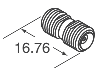

Fig. 3

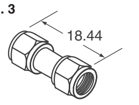

Fig. 4

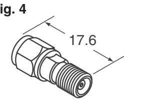

Fig. 5

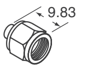

Fig. 6

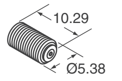

Fig. 7

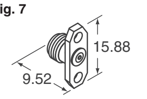

Fig. 8

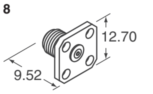

Fig.	Description	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
	Adapter						
1	Hermetic Seal Feedthru	—	J688-ND	12.36	11.01	8.99	142-1000-033
2	Jack to Jack In-series Adapter	Gold	J694-ND	86.63	77.18	63.00	145-0901-801
3	Plug to Plug In-series Adapter	Gold	J695-ND	82.50	73.50	60.00	145-0901-811
4	Plug to Jack In-series Adapter	Gold	J696-ND	75.63	67.38	55.00	145-0901-821
	Plug						
5	Straight Solder Type with Contact, Slide-on Nut	Passivated	J689-ND	14.58	12.99	10.60	145-0693-002
	Straight Solder Type with Contact, Slide-on Nut	Passivated	J690-ND	14.16	12.62	10.30	145-0694-002
	Receptacle						
6	Thread Mount Field Replaceable	Passivated	J691-ND	15.68	13.97	11.40	145-0701-002
7	2-Hole Flange Mount Jack	Passivated	J692-ND	24.20	21.56	17.60	145-0701-602
8	4-Hole Flange Mount Jack	Passivated	J693-ND	22.55	20.09	16.40	145-0701-612

Description	Digi-Key Part No.	Price Each	Johnson Part No.
Tools			
Bead Assembly Tool	J697-ND	27.90	140-0000-957
Body Soldering Tool for .141 Semi-Rigid	J699-ND	12.40	140-0000-959
Contact Soldering Tool for .141 Semi-Rigid	J701-ND	11.62	140-0000-961
Cable Vise Tool	J702-ND	557.92	140-0000-962
Cable Clamp Insert Tool for .086 Semi-Rigid	J703-ND	96.30	140-0000-964
Cable Clamp Insert Tool for .141 Semi-Rigid	J704-ND	96.30	140-0000-965
Vise Stop Tool	J705-ND	10.85	140-0000-968

RF Connectors MMCX Type

RoHS COMPLIANT

Digi Reel®

ELECTRICAL RATINGS: • **Impedance:** 50Ω • **Frequency Range:** 0 ~ 6 GHz • **Working Voltage:** 170 Vrms at sea level • **Insulation Resistance:** 1000MΩ minimum

MECHANICAL RATINGS: • **Engagement/Disengagement Force:** 8.0 pounds maximum engagement; 1.4 pounds minimum disengagement • **Contact Retention Force:** 2.0 pounds minimum axial force • **Durability:** 500 cycles minimum

Fig. 1 – Straight Cabled Plug

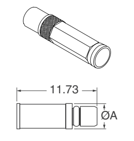

Fig. 2 – Right Angle Flexible Cabled Plug

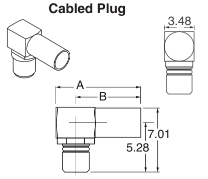

Fig. 3 – Straight Plug

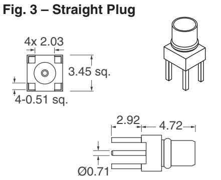

Fig. 4 – Right Angle Semi-Rigid Plug

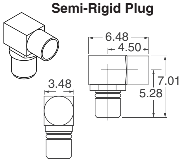

Fig. 5 – Straight Jack

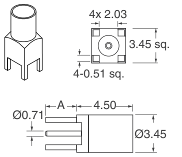

Fig. 6 – Right Angle Jack

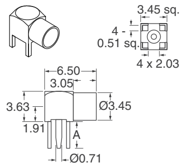

Fig. 7 – Jack Receptacle

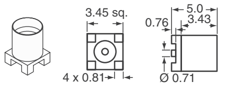

Fig. 8 – End Launch Jack

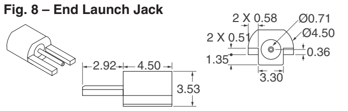

Fig.	Cable Type/Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	RG 178/U, 196	3.48	—	J589-ND	5.19	4.63	3.78	135-3402-001
	RG 316/U, 188, 161, 174	4.39	—	J590-ND	7.73	6.89	5.63	135-3403-001
	RG 316 DS, 188 DS, 187 DS	4.39	—	J591-ND	6.87	6.12	5.00	135-3404-001
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	3.48	—	J592-ND	4.50	4.01	3.27	135-3436-001
2	RG 178/U, 196	8.99	7.01	J593-ND	9.11	8.12	6.63	135-3402-101
	RG 316/U, 188, 187, 179, 161, 174	10.46	8.48	J594-ND	9.01	8.03	6.56	135-3403-101
	RG 316 DS, RG 188 DS	10.46	8.48	J595-ND	7.98	7.12	5.81	135-3404-101
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	8.99	7.01	J596-ND	7.90	7.04	5.75	135-3436-101
3	—	—	—	J601-ND	9.85	8.78	7.16	135-3801-201
4	—	—	—	J602-ND	7.90	7.04	5.75	135-3693-101
5	Straight - Gold PCB	2.92	—	J597-ND	5.24	4.67	3.81	135-3701-201
	Straight - Gold PCB	1.73	—	J598-ND	5.29	4.72	3.85	135-3701-211
6	Right Angle - Gold PCB	2.92	—	J599-ND	11.11	9.90	8.08	135-3701-301
	Right Angle - Gold PCB	1.73	—	J600-ND	10.64	9.48	7.74	135-3701-311
7	Jack Receptacle - Gold SMD	—	—	J821-ND	6.82	6.08	4.97	135-3711-201
	Jack Receptacle - Gold SMD	—	—	J10059CT-ND†	5.91	5.32	4.41	135-3711-202
	Jack Receptacle - Gold SMD	—	—	J10059TR-ND‡	3758.46/1,500			135-3711-202
8	End Launch - PCB	—	—	J603-ND	5.40	4.81	3.93	135-3711-801
Hand Crimp Tool (frame only)				J572-ND	94.54/1			140-0000-952
Crimp Tool Die Set				J604-ND	196.75/1			140-0000-953

† Cut Tape ‡ Tape and Reel

SMA Reverse Polarity Plugs and Receptacles

RoHS COMPLIANT

Electrical Ratings: • Impedance: 50Ω • Insulation Resistance: 5000 MΩ minimum **Mechanical Ratings:** • Engagement Design: MIL-C-39012, Series SMA • Engagement/Disengagement Force: 2 inch-pounds maximum • Mating Torque: 7 ~ 10 inch-pounds • Bulkhead Mounting Nut Torque: 15 inch-pounds • Coupling Proof Torque: 15 inch-pounds minimum • Coupling Nut Retention: 60 Pounds minimum • Durability: 500 Cycles minimum **Environmental Ratings:** (Meets or exceeds the applicable paragraph of MIL-C-39012) • Temperature Range: -65°C ~ 165°C • Thermal Shock: MIL-STD-202, Method 107, Condition B • Corrosion: • MIL-STD-202, Method 101, Condition B • Shock: MIL-STD-202, Method 213, Condition I • Vibration: MIL-STD-202, Method 204, Condition D • Moisture Resistance: MIL-STD-202, Method 106 **Material Specifications:** • Bodies: Brass per QQ-B-626, Gold Plated per MIL-G-45204 .00001" minimum or nickel plated per QQ-N-290 • Contacts: Male: Brass per QQ-B-626, Gold Plated per MIL-G-45204 .00003" minimum; Female: Beryllium Copper per QQ-C-530, Gold Plated per MIL-G-45204 .00003" minimum

Fig. 1

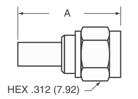

Fig. 2

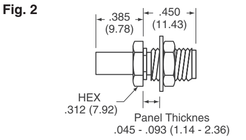

Fig. 3

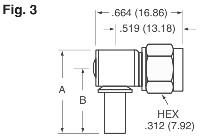

Fig. 4

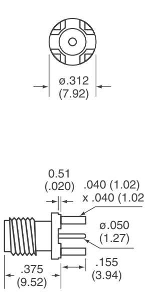

Fig. 5

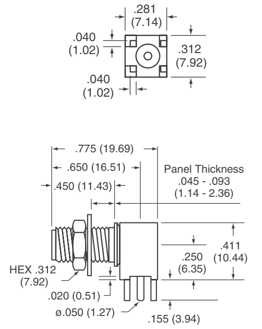

Fig. 6

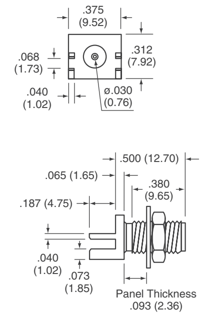

Fig.	Cable Type	Dimension - Inch (mm) A	B	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	10	100	Johnson Part No.
	Straight Crimp Type Plug									
1	RG-316	.706 (17.93)	—	1.15 + .02f	0 ~ 12.4	J908-ND	10.86	9.68	7.11	142-4403-001
	RG-316DS	.706 (17.93)	—	1.15 + .02f	0 ~ 12.4	J909-ND	11.26	10.03	7.37	142-4404-001
	RG-58	.706 (17.93)	—	1.17 + .025f	0 ~ 12.4	J910-ND	11.26	10.03	7.37	142-4407-001
	Straight Crimp Type Bulkhead Jack									
2	RG-316	—	—	—	—	J905-ND	9.47	8.44	6.20	142-4303-401
	RG-316DS	—	—	—	—	J906-ND	9.88	8.81	6.47	142-4304-401
	RG-58	—	—	—	—	J907-ND	11.36	10.13	7.44	142-4307-401
	Right Angle Crimp Type Plug									
3	RG-316	.611 (15.52)	.470 (11.94)	1.15 + .03f	0 ~ 12.4	J911-ND	11.66	10.39	7.64	142-4403-101
	RG-316DS	.611 (15.52)	.470 (11.94)	1.15 + .03f	0 ~ 12.4	J912-ND	11.26	10.03	7.37	142-4404-101
	RG-58	.611 (15.52)	.470 (11.94)	1.17 + .06f	0 ~ 12.4	J913-ND	12.06	10.75	7.90	142-4407-101
	LMR-240	.635 (16.13)	.490 (12.45)	1.10 + .06f	0 ~ 12.4	J914-ND	11.60	10.34	7.60	142-4435-101
	Receptacles									
4	Straight Jack					J915-ND	6.44	5.74	4.22	142-4701-201
5	Right Angle Bulkhead Jack					J916-ND	12.65	11.27	8.28	142-4701-501
6	End Launch Bulkhead Jack					J917-ND	7.34	6.54	4.81	142-4701-801

Digi Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

EMERSON
Network Power

Johnson
Connectivity Solutions

Fixed Length Cables and Adapters

RoHS

Features: • Tested to customer specifications • Flexible cable • 0GHz ~ 26GHz • 50Ω and 75Ω • Controlled impedance **Applications:** • Voltage/Continuity Test Fixture • Interface location gauging • VSWR Quality Assurance Scalar Analyzer • VSWR/TDR Design Engineering Vector Analyzer • CNC Hardline Bender (Semi-rigid cables)

Straight to Straight

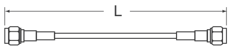

Right Angle to Right Angle

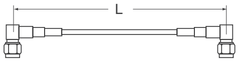

Straight to Right Angle

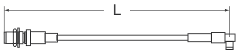

Straight to Straight Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-316	6	J1206-ND	17.15	12.86	10.86	415-0003-006
	12	J1212-ND	17.62	13.22	11.16	415-0003-012
	24	J1224-ND	19.05	14.29	12.07	415-0003-024
	36	J1236-ND	20.00	15.01	12.67	415-0003-036
SMB 75Ω Plug to SMB 75Ω Plug						
RG-179	6	J1606-ND	17.62	13.22	11.16	415-0008-006
	12	J1612-ND	18.57	13.93	11.77	415-0008-012
	24	J1624-ND	20.00	15.01	12.67	415-0008-024
	36	J1636-ND	21.91	16.43	13.88	415-0008-036
RG-179DS	6	J1806-ND	18.10	13.58	11.47	415-0010-006
	12	J1812-ND	19.52	14.65	12.37	415-0010-012
MCX Plug to MCX Plug						
RG-178	6	J2206-ND	16.19	12.15	10.26	415-0014-006
	12	J2212-ND	17.15	12.86	10.86	415-0014-012
	24	J2224-ND	19.05	14.29	12.07	415-0014-024
	36	J2236-ND	20.95	15.72	13.27	415-0014-036
MCX Plug to MCX Bulkhead Jack						
RG-316	12	J2412-ND	20.00	15.01	12.67	415-0016-012
	24	J2424-ND	20.95	15.72	13.27	415-0016-024
	36	J2436-ND	22.38	16.79	14.18	415-0016-036
MCX 75Ω Plug to MCX 75Ω Plug						
RG-179	6	J3006-ND	22.38	16.79	14.18	415-0022-006
	12	J3012-ND	23.33	17.51	14.78	415-0022-012
	24	J3024-ND	24.76	18.58	15.69	415-0022-024
	36	J3036-ND	26.67	20.00	16.89	415-0022-036
MMCX Plug to MMCX Plug						
RG-178	6	J728-ND	24.60	18.45	15.58	415-0066-006
	12	J729-ND	25.91	19.44	16.42	415-0066-012
	18	J730-ND	27.10	20.33	17.17	415-0066-018
	24	J731-ND	28.33	21.25	17.94	415-0066-024
RG-316	6	J732-ND	28.77	21.58	18.23	415-0067-006
	12	J733-ND	29.69	22.27	18.81	415-0067-012
	18	J734-ND	30.28	22.72	19.18	415-0067-018
	24	J735-ND	31.37	23.54	19.88	415-0067-024
MMCX Plug to SMA Bulkhead Jack						
RG-178	6	J744-ND	26.84	20.14	17.00	415-0070-006
	12	J745-ND	28.05	21.04	17.77	415-0070-012
	18	J746-ND	29.44	22.08	18.65	415-0070-018
	24	J747-ND	30.65	22.99	19.42	415-0070-024
	36	J748-ND	33.77	25.33	21.39	415-0070-036
RG-316	6	J749-ND	27.67	20.76	17.53	415-0071-006
	12	J750-ND	28.51	21.39	18.06	415-0071-012
	18	J751-ND	29.30	21.98	18.56	415-0071-018
	24	J752-ND	30.36	22.78	19.23	415-0071-024
	36	J753-ND	32.66	24.50	20.69	415-0071-036
SMA Plug to SMA Plug						
RG-178	6	J3306-ND	17.81	13.36	11.29	415-0025-006
	12	J3312-ND	18.86	14.15	11.95	415-0025-012
	24	J3324-ND	20.95	15.72	13.27	415-0025-024
	36	J3336-ND	24.62	18.47	15.60	415-0025-036
RG-316	6	J3706-ND	14.98	11.24	9.49	415-0029-006
	12	J3712-ND	15.98	11.99	10.12	415-0029-012
	24	J3724-ND	15.72	11.79	9.96	415-0029-024
	36	J3736-ND	18.39	13.80	11.65	415-0029-036
RG-316DS	6	J4106-ND	14.98	11.24	9.49	415-0033-006
	12	J4112-ND	15.46	11.60	9.80	415-0033-012
	24	J4124-ND	17.39	13.05	11.02	415-0033-024
	36	J4136-ND	19.29	14.47	12.22	415-0033-036
	48	J4148-ND	21.27	15.96	13.48	415-0033-048
RG-58	12	J4612-ND	17.15	12.86	10.86	415-0038-012
	24	J4624-ND	18.10	13.58	11.47	415-0038-024
	36	J4636-ND	19.05	14.29	12.07	415-0038-036
RG-142	12	J5112-ND	21.43	16.08	13.58	415-0043-012
	24	J5124-ND	27.62	20.72	17.50	415-0043-024
	36	J5136-ND	33.81	25.36	21.42	415-0043-036
Hand Formable .086	3	J822-ND	19.35	14.52	12.26	415-0081-003
	4	J823-ND	19.88	14.91	12.59	415-0081-004
	5	J824-ND	20.40	15.30	12.92	415-0081-005
	6	J825-ND	21.00	15.75	13.30	415-0081-006
	7	J826-ND	21.53	16.15	13.64	415-0081-007
	8	J827-ND	22.13	16.60	14.02	415-0081-008
	12	J828-ND	24.38	18.29	15.44	415-0081-012
	18	J829-ND	27.71	20.79	17.56	415-0081-018
	24	J830-ND	31.05	23.29	19.67	415-0081-024
Hand Formable .141	3	J831-ND	22.20	16.65	14.06	415-0082-003
	4	J832-ND	22.88	17.16	14.49	415-0082-004
	5	J833-ND	23.78	17.84	15.06	415-0082-005
	6	J834-ND	24.49	18.37	15.51	415-0082-006
	7	J835-ND	25.29	18.97	16.02	415-0082-007
Hand Formable .141	8	J836-ND	26.06	19.55	16.51	415-0082-008
	12	J837-ND	28.80	21.60	18.24	415-0082-012
	18	J838-ND	32.55	24.42	20.62	415-0082-018
	24	J839-ND	36.30	27.23	22.99	415-0082-024
SMA Plug to SMA Bulkhead Jack						
RG-316	6	J3906-ND	16.66	12.50	10.56	415-0031-006
	12	J3912-ND	17.64	13.24	11.18	415-0031-012
	24	J3924-ND	18.62	13.97	11.80	415-0031-024
	36	J3936-ND	19.88	14.92	12.60	415-0031-036
RG-316DS	6	J4306-ND	16.19	12.15	10.26	415-0035-006
	12	J4312-ND	17.15	12.86	10.86	415-0035-012
	24	J4324-ND	19.05	14.29	12.07	415-0035-024
	36	J4336-ND	20.48	15.36	12.97	415-0035-036
RG-58	12	J4812-ND	21.91	16.43	13.88	415-0040-012
	24	J4824-ND	22.86	17.15	14.48	415-0040-024
	36	J4836-ND	23.81	17.86	15.09	415-0040-036
BNC Plug to BNC Plug						
RG-58	12	J6212-ND	10.95	8.22	6.94	415-0054-012
	24	J6224-ND	11.90	8.93	7.54	415-0054-024
	36	J6236-ND	13.34	10.01	8.45	415-0054-036
Belden 8218	12	J6412-ND	10.95	8.22	6.94	415-0056-012
	24	J6424-ND	12.38	9.29	7.85	415-0056-024
	36	J6436-ND	13.34	10.01	8.45	415-0056-036
RG-59	12	J6512-ND	10.95	8.22	6.94	415-0057-012
	24	J6524-ND	12.38	9.29	7.85	415-0057-024
	36	J6536-ND	13.34	10.01	8.45	415-0057-036
N Plug to N Plug						
RG-58	24	J6624-ND	16.67	12.51	10.56	415-0058-024
	36	J6636-ND	18.10	13.58	11.47	415-0058-036
	48	J989-ND	19.05	14.29	12.07	415-0058-048
RG-142	12	J6812-ND	20.95	15.72	13.27	415-0060-012
	24	J6824-ND	27.14	20.36	17.20	415-0060-024
	36	J6836-ND	33.34	25.01	21.12	415-0060-036
RG-8	12	J7012-ND	19.52	14.65	12.37	415-0062-012
	24	J7024-ND	23.81	17.86	15.09	415-0062-024
	36	J7036-ND	27.62	20.72	17.50	415-0062-036
SMA Plug to N Plug						
RG-58	12	J6712-ND	16.19	12.15	10.26	415-0059-012
	24	J6724-ND	17.62	13.22	11.16	415-0059-024
	36	J6736-ND	18.57	13.93	11.77	415-0059-036
RG-142	12	J6912-ND	20.95	15.72	13.27	415-0061-012
	24	J6924-ND	27.62	20.72	17.50	415-0061-024
	36	J6936-ND	33.34	25.01	21.12	415-0061-036
SMA Plug to BNC Plug						
RG-316	6	J3606-ND	15.15	11.36	9.60	415-0028-006
	12	J3612-ND	15.55	11.67	9.85	415-0028-012
	24	J3624-ND	16.48	12.37	10.44	415-0028-024
	36	J3636-ND	17.76	13.33	11.25	415-0028-036
RG-58	12	J4512-ND	13.81	10.36	8.75	415-0037-012
	24	J4524-ND	15.24	11.43	9.66	415-0037-024
	36	J4536-ND	16.19	12.15	10.26	415-0037-036
RG-142	12	J5012-ND	19.05	14.29	12.07	415-0042-012
	24	J5024-ND	24.76	18.58	15.69	415-0042-024
	36	J5036-ND	30.95	23.22	19.61	415-0042-036
SMA Quick-Connect Plug to SMA Plug						
RG-316DS	12	J791-ND	41.35	31.02	26.19	415-0078-012
	24	J792-ND	42.91	32.18	27.18	415-0078-024
	36	J793-ND	45.16	33.87	28.60	415-0078-036
RG-142	12	J794-ND	47.23	35.43	29.92	415-0079-012
	24	J795-ND	53.63	40.23	33.97	415-0079-024
SMA Quick-Connect Plug to SMA Quick-Connect Plug						
RG-316	6	J779-ND	66.50	49.88	42.12	415-0065-006
	12	J780-ND	67.54	50.66	42.78	415-0065-012
	18	J781-ND	68.40	51.30	43.32	415-0065-018
	24	J782-ND	69.27	51.95	43.87	415-0065-024
	36	J783-ND	71.00	53.25	44.97	415-0065-036
	48	J784-ND	72.73	54.55	46.07	415-0065-048
RG-316DS	12	J785-ND	65.75	49.31	41.64	415-0076-012
	24	J786-ND	67.48	50.61	42.74	415-0076-024
	36	J787-ND	69.55	52.17	44.05	415-0076-036
RG-142	12	J788-ND	70.76	53.08	44.82	415-0077-012
	24	J789-ND	77.16	57.88	48.87	415-0077-024
	36	J790-ND	77.86	58.40	49.31	415-0077-036

(Continued)

Fixed Length Cables and Adapters *(Cont.)*

Right Angle to Right Angle Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	10	25	Johnson Part No.
SMB Plug to SMB Plug						
RG-178	6	J1006-ND	19.05	14.29	12.07	415-0001-006
	12	J1012-ND	20.00	15.01	12.67	415-0001-012
	24	J1024-ND	21.91	16.43	13.88	415-0001-024
	36	J1036-ND	23.81	17.86	15.09	415-0001-036
RG-316	6	J7306-ND	17.62	13.22	11.16	415-0004-006
	12	J7312-ND	18.10	13.58	11.47	415-0004-012
	24	J7324-ND	19.52	14.65	12.37	415-0004-024
	36	J7336-ND	20.95	15.72	13.27	415-0004-036
MCX Plug to MCX Plug						
RG-178	6	J2306-ND	15.71	11.79	9.96	415-0015-006
	12	J2312-ND	17.15	12.86	10.86	415-0015-012
	24	J2324-ND	18.57	13.93	11.77	415-0015-024
	36	J2336-ND	20.95	15.72	13.27	415-0015-036
RG-316	6	J2706-ND	16.76	12.58	10.62	415-0019-006
	12	J2712-ND	17.29	12.97	10.95	415-0019-012
	24	J2724-ND	18.86	14.15	11.95	415-0019-024
	36	J2736-ND	19.91	14.93	12.61	415-0019-036
RG-316DS	6	J2906-ND	16.76	12.58	10.62	415-0021-006
	12	J2912-ND	17.81	13.36	11.29	415-0021-012
	24	J2924-ND	19.38	14.54	12.28	415-0021-024
MMCX Plug to MMCX Plug						
RG-178	6	J736-ND	32.36	24.28	20.50	415-0068-006
	12	J737-ND	33.77	25.33	21.39	415-0068-012
	18	J738-ND	34.98	26.24	22.16	415-0068-018
	24	J739-ND	36.19	27.15	22.93	415-0068-024
RG-316	6	J740-ND	30.31	22.73	19.20	415-0069-006
	12	J741-ND	31.17	23.38	19.75	415-0069-012
	18	J742-ND	32.04	24.03	20.29	415-0069-018
	24	J743-ND	32.90	24.68	20.84	415-0069-024
SMA Plug to SMA Plug						
RG-178	6	J3506-ND	22.38	16.79	14.18	415-0027-006
	12	J3512-ND	23.33	17.51	14.78	415-0027-012
	24	J3524-ND	25.72	19.29	16.29	415-0027-024
	36	J3536-ND	27.62	20.72	17.50	415-0027-036
RG-316	6	J4006-ND	18.57	13.93	11.77	415-0032-006
	12	J4012-ND	19.05	14.29	12.07	415-0032-012
	24	J4024-ND	20.48	15.36	12.97	415-0032-024
	36	J4036-ND	21.91	16.43	13.88	415-0032-036
RG-316DS	6	J4406-ND	20.95	15.72	13.27	415-0036-006
	12	J4412-ND	21.48	16.11	13.61	415-0036-012
	24	J4424-ND	23.05	17.29	14.60	415-0036-024
	36	J4436-ND	25.14	18.86	15.93	415-0036-036
RG-58	12	J4912-ND	20.95	15.72	13.27	415-0041-012
	24	J4924-ND	21.91	16.43	13.88	415-0041-024
	36	J4936-ND	22.86	17.15	14.48	415-0041-036

Straight to Right Angle Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	10	25	Johnson Part No.
SMB Plug to SMB Plug						
RG-316	6	J1106-ND	17.15	12.86	10.86	415-0002-006
	12	J1112-ND	18.10	13.58	11.47	415-0002-012
	24	J1124-ND	19.05	14.29	12.07	415-0002-024
	36	J1136-ND	20.48	15.36	12.97	415-0002-036
RG-178	6	J1506-ND	20.95	15.72	13.27	415-0007-006
	12	J1512-ND	21.91	16.43	13.88	415-0007-012
	24	J1524-ND	24.29	18.22	15.39	415-0007-024
	36	J1536-ND	26.19	19.65	16.59	415-0007-036
MCX Plug to MCX Plug						
RG-316	6	J2506-ND	15.71	11.79	9.96	415-0017-006
	12	J2512-ND	16.24	12.18	10.29	415-0017-012
	24	J2524-ND	17.29	12.97	10.95	415-0017-024
	36	J2536-ND	18.86	14.15	11.95	415-0017-036
SMA Plug to SMA Plug						
RG-178	6	J3406-ND	20.28	15.22	12.85	415-0026-006
	12	J3412-ND	21.17	15.89	13.42	415-0026-012
	24	J3424-ND	23.14	17.36	14.66	415-0026-024
	36	J3436-ND	25.61	19.21	16.22	415-0026-036
RG-316	6	J3806-ND	16.67	12.51	10.56	415-0030-006
	12	J3812-ND	17.15	12.86	10.86	415-0030-012
	24	J3824-ND	18.03	13.53	11.42	415-0030-024
	36	J3836-ND	19.91	14.93	12.61	415-0030-036
	48	J3848-ND	21.36	16.02	13.53	415-0030-048
RG-316DS	6	J4206-ND	16.67	12.51	10.56	415-0034-006
	12	J4212-ND	17.62	13.22	11.16	415-0034-012
	24	J4224-ND	19.05	14.29	12.07	415-0034-024
	36	J4236-ND	20.48	15.36	12.97	415-0034-036
RG-142	12	J5212-ND	23.33	17.51	14.78	415-0044-012
	24	J5224-ND	29.53	22.15	18.70	415-0044-024
	36	J5236-ND	35.72	26.79	22.62	415-0044-036
SMA Bulkhead Jack to MMCX Plug						
RG-178	6	J754-ND	30.62	22.97	19.40	415-0072-006
	12	J755-ND	32.01	24.01	20.28	415-0072-012
RG-178	18	J756-ND	33.22	24.92	21.04	415-0072-018
	24	J757-ND	34.43	25.83	21.81	415-0072-024
	36	J758-ND	37.72	28.29	23.89	415-0072-036
RG-316	6	J759-ND	27.94	20.96	17.70	415-0073-006
	12	J760-ND	28.72	21.54	18.19	415-0073-012
	18	J761-ND	29.76	22.32	18.85	415-0073-018
	24	J762-ND	30.62	22.97	19.40	415-0073-024
	36	J763-ND	32.87	24.66	20.82	415-0073-036
SMA Bulkhead Jack to SMA Plug						
RG-316	6	J764-ND	25.78	19.34	16.33	415-0074-006
	12	J765-ND	26.64	19.99	16.88	415-0074-012
	24	J766-ND	28.37	21.29	17.98	415-0074-024
	36	J767-ND	30.80	23.10	19.51	415-0074-036
RG-316DS	6	J769-ND	26.41	19.81	16.73	415-0064-006
	12	J7212-ND	27.13	20.35	17.19	415-0064-012
	24	J7224-ND	28.78	21.59	18.23	415-0064-024
	36	J7236-ND	31.01	23.26	19.64	415-0064-036
RG-142	12	J775-ND	34.08	25.57	21.59	415-0075-012
	24	J776-ND	40.66	30.50	25.76	415-0075-024
	36	J777-ND	47.75	35.82	30.25	415-0075-036
	48	J778-ND	54.15	40.62	34.30	415-0075-048

Adapters

Dimensions in (mm)

Fig. 1

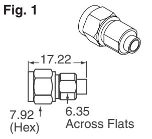

Fig. 2

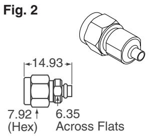

Fig. 3

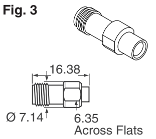

Fig. 4

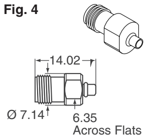

Fig. 5

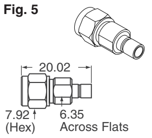

Fig. 6

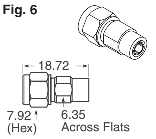

Fig. 7

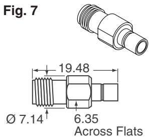

Fig. 8

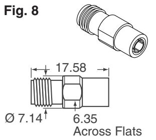

Fig. 9

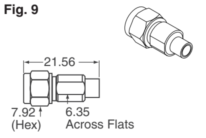

Fig. 10

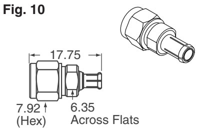

Fig. 11

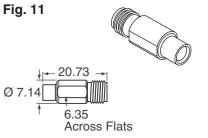

Fig. 12

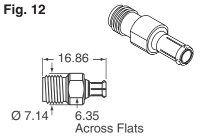

Fig. 13

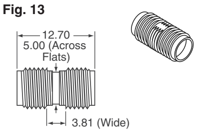

Fig. 14

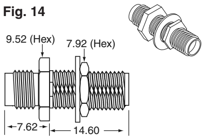

Fig. 15

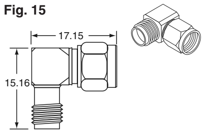

Fig. 16

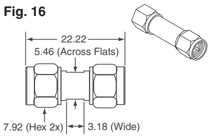

Fig. 17

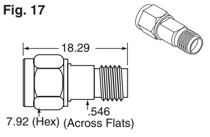

Fig.	Description	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	10	Johnson Part No.
1	SMA Plug to MMCX Jack	1.05 + .05f	0 ~ 6	J617-ND	54.45	48.52	134-1019-151
2	SMA Plug to MMCX Plug	1.05 + .05f	0 ~ 6	J618-ND	58.99	52.56	134-1019-161
3	SMA Jack to MMCX Jack	1.05 + .05f	0 ~ 6	J619-ND	49.92	44.47	134-1019-171
4	SMA Jack to MMCX Plug	1.05 + .05f	0 ~ 6	J620-ND	54.45	48.52	134-1019-181
5	SMA Plug to SMB Jack	1.05 + .01f	0 ~ 4	J621-ND	49.92	44.47	134-1012-011
6	SMA Plug to SMB Plug	1.05 + .01f	0 ~ 4	J622-ND	54.45	48.52	134-1012-021
7	SMA Jack to SMB Jack	1.05 + .01f	0 ~ 4	J623-ND	49.92	44.47	134-1012-031
8	SMA Jack to SMB Plug	1.05 + .01f	0 ~ 4	J624-ND	51.20	45.62	134-1012-041
9	SMA Plug to MCX Jack	1.03 + .03f	0 ~ 6	J625-ND	49.92	44.47	134-1018-001
10	SMA Plug to MCX Plug	1.03 + .03f	0 ~ 6	J626-ND	54.45	48.52	134-1018-011
11	SMA Jack to MCX Jack	1.03 + .03f	0 ~ 6	J627-ND	49.92	44.47	134-1018-021
12	SMA Jack to MCX Plug	1.03 + .03f	0 ~ 6	J628-ND	49.92	44.47	134-1018-031
13	SMA Jack to SMA Jack	1.05 + .005f	0 ~ 18	J655-ND	16.05	14.30	142-0901-801
14	SMA Jack to SMA Bulkhead Jack	1.05 + .01f	0 ~ 18	J659-ND	22.92	20.42	142-0901-401
15	SMA Jack to SMA Plug / Rt. Angle	1.035 + .02f	0 ~ 18	J632-ND	20.77	18.50	142-0901-941
16	SMA Plug to SMA Plug	1.05 + .01f	0 ~ 18	J633-ND	18.50	16.49	142-0901-811
17	SMA Plug to SMA Jack	1.05 + .005f	0 ~ 18	J656-ND	12.06	10.75	142-0901-821

Note: *All Adapters are Gold plated.*

Ultra Miniature Cables and Accessories

Emerson's UMC Ultraminiature Coaxial Connectors and Cable Assemblies are the answer for quality, snap-on connections built to meet your cost and performance targets. The UMC cable plugs and jack receptacles offer 2.0mm and 2.5mm maximum mated height options with DC to 6 GHz electrical performance.

Applications: • Wireless LAN, Mini-PCI and Hand-Held RF Devices • GSM, GPRS and CDMA Mobile Phones • PDA and Notebook Computer • GPS • Bluetooth • Microwave radio and measurement **Features:** • Excellent cost to performance ratio • All cabled plugs and jack receptacles are supplied with gold plated contacts and bodies **Product Specifications:** • Impedance: 50Ω (nominal) • Temperature Range: -40°C ~ 90°C • Frequency Rating: 0GHz ~ 6GHz • VSWR: 1.30 maximum (0GHz ~ 6GHz) • Contact Resistance: 20mΩ maximum (Center), 20mΩ maximum (Outer, for plug), 10mΩ maximum (Outer, for receptacle) • Withstanding Voltage: 200VAC • Insulation Resistance: 500MΩ minimum • Durability: 30 cycles • Holding Force (minimum): 0.15 N (Female contact)

Fig. 1

Right Angle to Right Angle

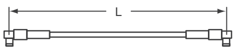

Fig. 2

Straight to Right Angle

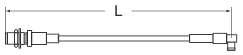

Fig. 3

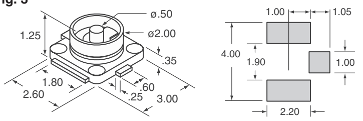

Fig. 4

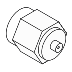

Fig. 5

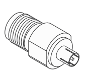

Fig. 6

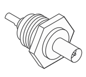

Fig.	Coaxial Cable ø(mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Johnson Part No.
Right Angle to Right Angle Cables								
Low Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug								
1	.081	2.0	50	J918-ND	3.64	3.25	2.39	415-0084-050
	.081	2.0	100	J919-ND	3.82	3.41	2.50	415-0084-100
	.081	2.0	150	J920-ND	4.06	3.62	2.66	415-0084-150
	.081	2.0	200	J921-ND	4.19	3.74	2.75	415-0084-200
	.081	2.0	250	J922-ND	4.33	3.86	2.84	415-0084-250
	.081	2.0	300	J923-ND	4.54	4.05	2.97	415-0084-300
	.081	2.0	500	J924-ND	5.29	4.72	3.47	415-0084-500
Medium Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug								
1	.081	2.5	50	J925-ND	3.64	3.25	2.39	415-0085-050
	.081	2.5	100	J926-ND	3.82	3.41	2.50	415-0085-100
	.081	2.5	150	J927-ND	4.06	3.62	2.66	415-0085-150
	.081	2.5	200	J928-ND	4.19	3.74	2.75	415-0085-200
	.081	2.5	250	J929-ND	4.33	3.86	2.84	415-0085-250
	.081	2.5	300	J930-ND	4.54	4.05	2.97	415-0085-300
	.081	2.5	500	J931-ND	5.29	4.72	3.47	415-0085-500
	1.13	2.5	50	J932-ND	3.64	3.25	2.39	415-0086-050
	1.13	2.5	100	J933-ND	3.82	3.41	2.50	415-0086-100
	1.13	2.5	150	J934-ND	4.06	3.62	2.66	415-0086-150
	1.13	2.5	200	J935-ND	4.19	3.74	2.75	415-0086-200
	1.13	2.5	250	J936-ND	4.33	3.86	2.84	415-0086-250
	1.13	2.5	300	J937-ND	4.54	4.05	2.97	415-0086-300
	1.13	2.5	500	J938-ND	5.29	4.72	3.47	415-0086-500
	1.32	2.5	50	J939-ND	3.64	3.25	2.39	415-0087-050
	1.32	2.5	100	J940-ND	3.82	3.41	2.50	415-0087-100
	1.32	2.5	150	J941-ND	4.06	3.62	2.66	415-0087-150
	1.32	2.5	200	J942-ND	4.19	3.74	2.75	415-0087-200
	1.32	2.5	250	J943-ND	4.33	3.86	2.84	415-0087-250
	1.32	2.5	300	J944-ND	4.54	4.05	2.97	415-0087-300
	1.32	2.5	500	J945-ND	5.29	4.72	3.47	415-0087-500
	1.37	2.5	50	J946-ND	3.64	3.25	2.39	415-0088-050
	1.37	2.5	100	J947-ND	3.82	3.41	2.50	415-0088-100
	1.37	2.5	150	J948-ND	4.06	3.62	2.66	415-0088-150
	1.37	2.5	200	J949-ND	4.19	3.74	2.75	415-0088-200
	1.37	2.5	250	J950-ND	4.33	3.86	2.84	415-0088-250
	1.37	2.5	300	J951-ND	4.54	4.05	2.97	415-0088-300
	1.37	2.5	500	J952-ND	5.29	4.72	3.47	415-0088-500
Low Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug								
1	.81	2.0	150	J977-ND	15.48	13.79	10.14	415-0101-150
	.81	2.0	250	J978-ND	15.71	14.00	10.29	415-0101-250
Medium Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug								
1	.81	2.5	150	J979-ND	15.48	13.79	10.14	415-0102-150
	.81	2.5	250	J980-ND	15.71	14.00	10.29	415-0102-250
	1.37	2.5	150	J981-ND	15.09	13.45	9.88	415-0103-150
	1.37	2.5	250	J982-ND	15.40	13.72	10.08	415-0103-250
Right Angle to Straight Cables								
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug								
2	.81	2.0	150	J953-ND	18.17	16.19	11.90	415-0089-150
	.81	2.0	250	J954-ND	18.52	16.50	12.13	415-0089-250
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug								
2	.81	2.5	150	J955-ND	18.17	16.19	11.90	415-0090-150
	.81	2.5	250	J956-ND	18.52	16.50	12.13	415-0090-250
	1.37	2.5	150	J957-ND	18.02	16.06	11.80	415-0091-150
	1.37	2.5	250	J958-ND	18.25	16.26	11.95	415-0091-250
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug								
2	.81	2.0	150	J959-ND	17.36	15.47	11.37	415-0092-150
	.81	2.0	250	J960-ND	17.67	15.75	11.57	415-0092-250
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug								
2	.81	2.5	150	J961-ND	17.36	15.47	11.37	415-0093-150
	.81	2.5	250	J962-ND	17.67	15.75	11.57	415-0093-250
	1.37	2.5	150	J963-ND	15.48	13.79	10.14	415-0094-150
	1.37	2.5	250	J964-ND	16.09	14.34	10.54	415-0094-250
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack								
2	.81	2.0	150	J965-ND	16.09	14.34	10.54	415-0095-150
	.81	2.0	250	J966-ND	16.32	14.55	10.69	415-0095-250
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack								
2	.81	2.5	150	J967-ND	16.09	14.34	10.54	415-0096-150
	.81	2.5	250	J968-ND	16.32	14.55	10.69	415-0096-250
	1.37	2.5	150	J969-ND	17.56	15.65	11.50	415-0097-150
	1.37	2.5	250	J970-ND	16.09	14.34	10.54	415-0097-250
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack								
2	.81	2.0	150	J971-ND	17.25	15.37	11.29	415-0098-150
	.81	2.0	250	J972-ND	17.48	15.58	11.45	415-0098-250
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack								
2	.81	2.5	150	J973-ND	17.25	15.37	11.29	415-0099-150
	.81	2.5	250	J974-ND	17.48	15.58	11.45	415-0099-250
	1.37	2.5	150	J975-ND	17.02	15.17	11.14	415-0100-150
	1.37	2.5	250	J976-ND	17.17	15.30	11.24	415-0100-250
Low Profile UMC Right Angle Cable Plug to Bare End								
—	.81	2.5	150	J10034-ND	2.54	2.27	1.67	415-0104-150
	.81	2.5	250	J10035-ND	2.85	2.55	1.87	415-0104-250
Medium Profile UMC Right Angle Cable Plug to Bare End								
—	.81	2.5	150	J10036-ND	2.54	2.27	1.67	415-0105-150
	.81	2.5	250	J10037-ND	2.85	2.55	1.87	415-0105-250
	1.13	2.5	150	J10038-ND	2.54	2.27	1.67	415-0106-150
	1.13	2.5	250	J10039-ND	2.85	2.55	1.87	415-0106-250
	1.32	2.5	150	J10040-ND	2.54	2.27	1.67	415-0107-150
	1.32	2.5	250	J10041-ND	2.85	2.55	1.87	415-0107-250
	1.37	2.5	150	J10042-ND	2.54	2.27	1.67	415-0108-150
	1.37	2.5	250	J10043-ND	2.85	2.55	1.87	415-0108-250
Connectors and Accessories								
UMC PCB Jack Receptacle - Surface Mount								
3	Straight Jack Receptacle			J983CT-ND†	.94	.85	.64	128-0711-201
	Straight Jack Receptacle			J983TR-ND‡	1000.00/2,500			128-0711-201
SMA Conversion Adapters								
4	SMA Plug to UMC Jack			J985-ND	137.50	122.50	90.00	134-1019-361
5	SMA Jack to UMC Plug			J986-ND	137.50	122.50	90.00	134-1019-371
6	SMA Adapter for Surface Mount Jack			J987-ND	144.38	128.63	94.50	134-1019-381
Tool								
—	UMC Separation Key			J984-ND	1.86	1.80	—	128-0000-901

† Cut Tape ‡ Tape and Reel

Weatherproof F, BNC and RCA Compression Connectors for Audio/Video Installations

BNC, F and RCA connectors are constructed of zinc plated machined brass, and consist of a gold plated center pin allowing the best conductivity while providing picture perfect video and superior sound quality. Note: 1pc = pack of 10

Fig. 1

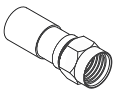

Fig. 2

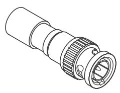

Fig. 3

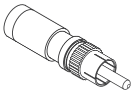

Fig.	Description	Digi-Key Part No.	Price Each 1	50	100	Emerson Part No.
F Connectors						
1	Gold Series, RG-59, Blue	J10056-ND	11.11	8.08	7.28	25-2502G-10PB
BNC Connectors						
2	75Ω, RG-6, Black	J10047-ND	38.01	27.64	24.88	28-2601-10PB
RCA Connectors						
3	RG-59, Red	J10049-ND	26.92	19.58	17.63	19-2504-10PB
	RG-6, White	J10055-ND	26.92	19.58	17.63	19-2606-10PB
Tool						
—	Adjustable 3-Way Ratchet Crimp Tool	J10057-ND	41.96	—	—	24-7714P

Multi-Ferrule BNC Connector

These commercial grade, 2-piece BNC connectors are designed for use on flexible 50Ω coaxial cable and are ideal for use in test equipment and instrumentation, CCTV, PC/LAN. Process controls applications and more. They have been designed around MIL-STD-202 with up to a 4GHZ frequency range. By including multiple ferrules these connectors are designed to eliminate extra inventory on the shelf, while allowing termination of various cable sizes.

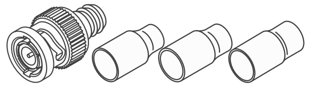

Description	Digi-Key Part No.	Price Each 1	50	100	Emerson Part No.
Crimp BNC Plug with 3 Ferrules	J10058-ND	2.64	1.92	1.73	27-9213

RF Connectors and Adapters

Fig. 1

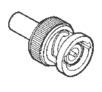

Fig. 2

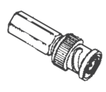

Fig. 3

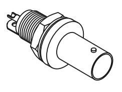

Fig. 4

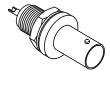

Fig. 5

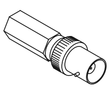

Fig. 6

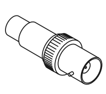

Fig. 7

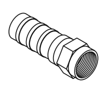

Fig. 8

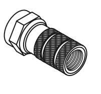

Fig. 9

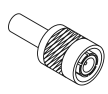

Fig. 10

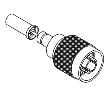

Fig. 11

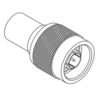

Fig. 12

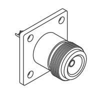

Fig. 13

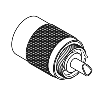

Fig. 14

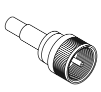

Fig. 15

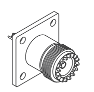

Fig. 16

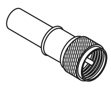

Fig. 17

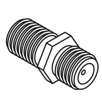

Fig. 18

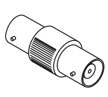

Fig. 19

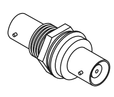

Fig. 20 ***NEW!***

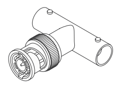

Fig. 21 ***NEW!***

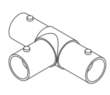

Fig. 22

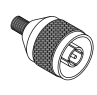

Fig. 23

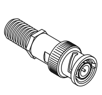

Fig. 24

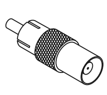

Fig. 25

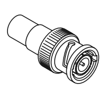

Fig. 26 ***NEW!***

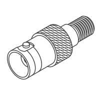

Fig. 27 ***NEW!***

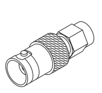

Fig. 28 ***NEW!***

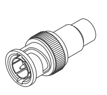

Fig. 29 ***NEW!***

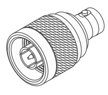

Fig. 30

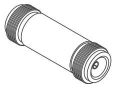

Fig. 31

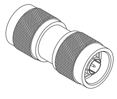

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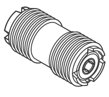

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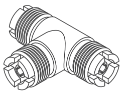

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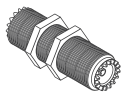

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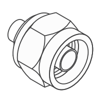

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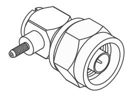

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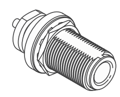

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	50	Emerson Part No.
		Connectors						
		True 75 Ohm BNC						
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-6, Belden 8215	367-1069-ND	5.97	5.32	4.34	CPMC685
			RG-179, 187, Belden 1520A	367-1072-ND	6.44	5.74	4.68	CPMC6820
		BNC						
1	Plug	Crimp-Type Push-On, 50Ω	RG-58	367-1001-ND	2.06	1.84	1.50	CP881
	Plug	Crimp-Type Push-On, 50Ω	RG-59, 62	367-1002-ND	1.98	1.77	1.44	CP882
	Plug	Crimp-Type Push-On, 50Ω	RG-6	367-1004-ND	2.12	1.89	1.54	CP-88-5
	Plug	Crimp-Type, Solder or Crimp Contact, 50Ω	RG-179, 187	367-1043-ND	2.61	2.33	1.90	CPM8820
	Plug		RG-174, 188,316	367-1044-ND	2.61	2.33	1.90	CPM8819
	Plug		RG-58, 141	367-1047-ND	2.61	2.33	1.90	CPMC881
	Plug		RG-59, 62	367-1048-ND	2.61	2.33	1.90	CPMC882
	Plug		RG-59, 62, TFE	367-1050-ND	2.61	2.33	1.90	CPMC8810
	Plug		RG-142, 223, 400, 55	367-1052-ND	2.61	2.33	1.90	CPMC8813
	Plug		Belden 8218	367-1053-ND	2.61	2.33	1.90	CPMC8818

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	50	Emerson Part No.
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 62	367-1045-ND	2.61	2.33	1.90	CPMC782
	Plug		Belden 8218, 1855A	367-1046-ND	2.61	2.33	1.90	28-91057
2	Plug	Twist-On, Field Installable, 50Ω	RG-58	367-1030-ND	1.98	1.77	1.44	CPFIUG881
	Plug		RG-59, 62	367-1031-ND	1.95	1.74	1.42	CPFIUG882
	Plug		RG-6	367-1034-ND	1.87	1.67	1.36	CPFIUG885
3	Jack	Front-Mount Bulkhead Jack with Solder Tab, 50Ω	—	367-1019-ND	3.03	2.70	2.20	CP-1094-AST
4	Jack	Front-Mount Bulkhead Jack without Solder Lug, 50Ω	—	367-1020-ND	3.03	2.70	2.20	CP-1094-U
5	Jack	Straight Twist-On Jack, 50 Ω	RG-59, 62	367-1036-ND	2.53	2.26	1.84	CPFIUG892
6	Jack	Crimp-Type Jack, Push-On Body, 50Ω	RG-59, 62	367-1007-ND	2.06	1.84	1.50	CP-89-2
		Type F						
7	Plug	Crimp-Type Plug	RG-6	367-1022-ND	.44	.40	.32	25-7032
	Plug	Crimp-Type Plug	RG-6 Quad Shield	367-1023-ND	.50	.45	.36	25-7034
	Plug	Crimp-Type Plug	RG-59	367-1025-ND	.44	.40	.32	25-7030
8	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.47	.42	.34	25-7180
		TNC						
9	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141	367-1056-ND	2.61	2.33	1.90	CPMCTNC-1
	Plug		RG-142, 223, 400, 55	367-1057-ND	2.61	2.33	1.90	CPMCTNC-13
	Plug		RG-8X (MINI 8)	367-1058-ND	2.61	2.33	1.90	CPMCTNC-17
		Type N						
10	Plug	Crimp-Type Plug	RG-58	367-1059-ND	5.39	4.81	3.92	CPN1
	Plug	Crimp-Type Plug	RG-142, TFE	367-1060-ND	5.39	4.81	3.92	CPN142T
	Plug	Crimp-Type Plug	RG-8, 213	367-1061-ND	5.39	4.81	3.92	CPN8
	Plug	Crimp-Type Plug	RG-8, 213	367-1062-ND	5.39	4.81	3.92	CPN8/110
	Plug	Crimp-Type Plug	Proflex RG-450	367-1063-ND	5.39	4.81	3.92	CPN16
	Plug	Crimp-Type Plug	RG-8X (MINI 8)	367-1086-ND	5.39	4.81	3.92	CPN17
11	Plug	Crimp-Type Plug	RG-8, 213	367-1079-ND	7.89	7.04	5.74	CPN688
	Plug	Crimp-Type Plug	RG-58, Beldon 9907	367-1080-ND	5.97	5.32	4.34	CPN681
12	Jack	Flange Mount Jack	—	367-1081-ND	3.69	3.29	2.68	26-8011
		UHF						
13	Plug	Solder-Type, Standard	RG-8, 213	367-1010-ND	3.80	3.39	2.76	25-7300
14	Plug	Crimp-Type, Crimp Contact	RG-58	367-1037-ND	3.22	2.87	2.34	25-7307
	Plug	Crimp-Type, Crimp Contact	RG-59, 62	367-1038-ND	3.22	2.87	2.34	25-7308
15	Jack	4-Hole Flange Mount Jack	—	367-1082-ND	1.84	1.65	1.34	25-7350
		Mini-UHF						
16	Plug	Crimp-Type, Solder or Crimp Contact	RG-58	367-1064-ND	1.71	1.52	1.24	MINI-UHF-1
	Plug		RG-8X (MINI 8)	367-1066-ND	1.71	1.52	1.24	MINI-UHF-17

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Emerson Part No.
	Adapters					
	F In-Series					
17	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.39	.35	.28	25-7200
	BNC					
18	Jack to Jack Adapter	367-1015-ND	1.54	1.38	1.12	CP-AD-555
19	Bulkhead Jack to Jack Adapter with Lock Washer	367-1016-ND	5.25	4.68	3.82	CP-AD-556M
	BNC Bulkhead Jack to Jack Adapter	J10102-ND ***NEW!***	8.58	7.65	6.24	CPAD580
20	BNC Jack to Jack to Plug T Adapter	J10095-ND ***NEW!***	2.48	2.21	1.80	27-8140
21	BNC Jack to Jack to Jack T Adapter	J10096-ND ***NEW!***	2.89	2.58	2.10	27-8141
	Between Series					
22	N Plug to SMA Jack	367-1017-ND	6.90	6.15	5.02	29-3840
23	BNC Plug to F Jack	367-1014-ND	2.48	2.21	1.80	25-7500
24	BNC Jack to RCA Plug	367-1012-ND	1.76	1.57	1.28	27-8110
25	BNC 50Ω Plug to RCA Jack	367-1013-ND	1.35	1.21	.98	CP-AD-515
26	BNC Jack to SMA Jack	J10097-ND ***NEW!***	4.79	4.27	3.48	29-3835
27	BNC Jack to SMA Plug	J10098-ND ***NEW!***	4.59	4.10	3.34	29-3855
28	BNC Plug to RCA Jack 75Ω	J10099-ND ***NEW!***	2.75	2.45	2.00	CP-AD-517
29	BNC Jack to 'N' Plug	J10100-ND ***NEW!***	6.02	5.37	4.38	26-8016
	Type N					
30	Jack to Jack Adapter	367-1087-ND	4.79	4.27	3.48	26-8010
31	Plug to Plug Adapter	367-1089-ND	6.57	5.86	4.78	26-8009
	UHF					
32	Jack to Jack Adapter	367-1083-ND	2.67	2.38	1.94	25-7330
33	Jack to Jack to Jack T Adapter	367-1084-ND	9.13	8.14	6.64	CPAD210
34	Bulkhead Jack to Bulkhead Jack Adapter	367-1090-ND	6.13	5.47	4.46	CPAD207

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
		11 GHz, MIL-PRF-39012, Connectors						
		Type N						
35	Plug	Straight Crimp	RG-58/U, 141, 303	J841-ND	12.93	11.52	9.40	138-4407-007
	Plug	Straight Crimp	RG-213, 8/U	J842-ND	14.30	12.74	10.40	138-4416-007
	Plug	Straight Crimp	RG-214, 9/U	J843-ND	14.03	12.50	10.20	138-4418-007
	Plug	Straight Crimp	RG-142, 55/U, 223, 400	J844-ND	12.93	11.52	9.40	138-4408-007
	Plug	Straight Crimp	RG-316, 161/U, 174, 188	J845-ND	16.50	14.70	12.00	138-4403-007
	Plug	Straight Crimp	LMR-400, Belden 9913	J847-ND	13.75	12.25	10.00	138-4449-007
	Plug	Straight Solder	RG-401, .250 Semi-Rigid	J854-ND	14.14	12.60	10.28	138-4696-001
	Plug	Straight Solder	RG-402, .141 Semi-Rigid	J855-ND	13.92	12.40	10.12	138-4694-001
	Plug	Straight Solder	RG-405, .086 Semi-Rigid	J856-ND	13.92	12.40	10.12	138-4693-001
	Plug	Straight Solder	RG-401, .250 Semi-Rigid	J857-ND	13.97	12.45	10.16	138-4696-011
	Plug	Straight Solder	RG-405, .086 Semi-Rigid	J859-ND	14.69	13.09	10.68	138-4693-011
36	Plug	Right-Angle Crimp	RG-58/U, 141, 303	J848-ND	21.73	19.36	15.80	138-4407-107
	Plug	Right-Angle Crimp	RG-213, 8/U	J849-ND	18.15	16.17	13.20	138-4416-107
	Plug	Right-Angle Crimp	RG-214, 9/U	J850-ND	18.15	16.17	13.20	138-4418-107
	Plug	Right-Angle Crimp	RG-142, 55/U, 223, 400	J851-ND	21.73	19.36	15.80	138-4408-107
	Plug	Right-Angle Crimp	RG-316, 161/U, 174, 188	J852-ND	20.90	18.62	15.20	138-4403-107
	Plug	Right-Angle Crimp	RG-316 DS, 188 DS	J853-ND	21.45	19.11	15.60	138-4404-107
37	Jack	Straight Crimp	RG-142, 55/U, 223, 400	J863-ND	17.00	15.15	12.36	138-4308-407
	Jack	Straight Crimp	RB-316, 161/U, 174, 188	J864-ND	21.73	19.36	15.80	138-4303-407
	Jack	Straight Crimp	LMR-400, Belden 9913	J866-ND	17.22	15.34	12.52	138-4349-407

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
	18 GHz, MIL-PRF-39012, Adapters					
	Type N					
30	Jack to Jack Adapter	J870-ND	28.38	25.29	20.64	138-4901-807

RF Connectors

Fig. 1
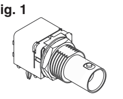

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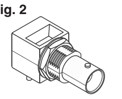

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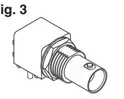

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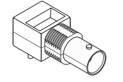

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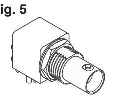

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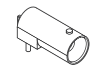

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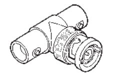

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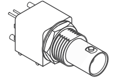

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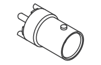

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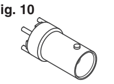

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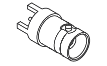

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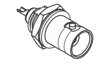

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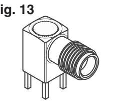

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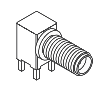

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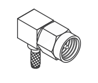

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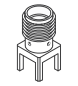

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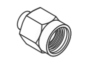

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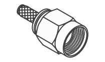

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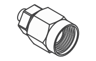

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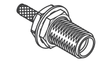

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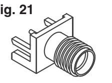

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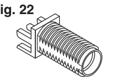

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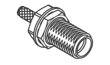

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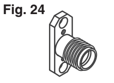

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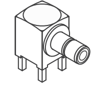

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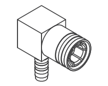

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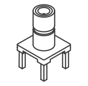

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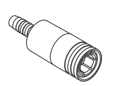

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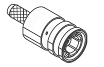

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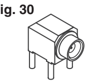

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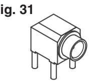

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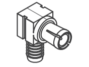

Fig. 33
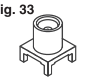

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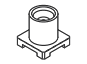

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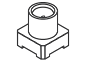

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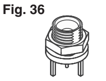

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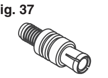

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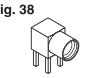

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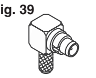

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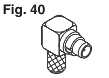

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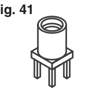

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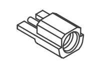

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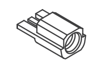

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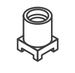

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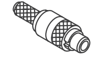

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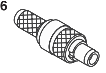

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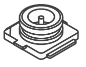

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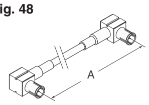

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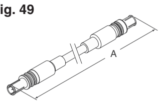

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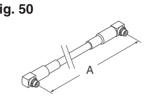

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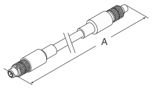

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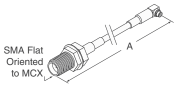
SMA Flat Oriented to MCX

Fig. 53
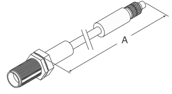

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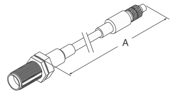

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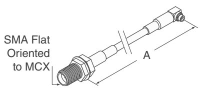
SMA Flat Oriented to MCX

Fig.	Dimension A	Description	Digi-Key Part No.	Price Each			Molex Part No.
				1	25	50	
BNC Connectors, Right Angle							
1	—	Jack, 50Ω PCB Mount with Hardware	WM5507-ND	6.59	5.33	4.82	73100-0223
	—	Jack, 50Ω PCB Mount	WM5522-ND	7.71	6.23	5.64	73100-0090
2	—	Jack, 50Ω PCB Mount	WM5515-ND	4.46	3.47	3.08	73138-5033
	—	Jack, 75Ω PCB Mount	WM5521-ND	3.31	2.58	2.29	73100-0080
3	—	Jack, 50Ω PCB Mount	WM5514-ND	3.55	2.76	2.46	73137-5003
	—	Jack, 75Ω PCB Mount, Black	WM5518-ND	5.54	4.30	3.82	73100-0067
	—	Jack, 75Ω PCB Mount, White	WM5519-ND	4.88	3.79	3.37	73100-0069
4	—	Jack, 75Ω PCB Mount with Board Locks	WM5508-ND	5.04	3.92	3.48	73101-0120
	—	Jack, 75Ω PCB Mount	WM5510-ND	5.29	4.11	3.65	73101-0400
	—	Jack, 75Ω PCB Mount with Board Locks	WM5511-ND	5.87	4.56	4.05	73101-0570
5	—	Jack, 75Ω PCB Mount	WM5520-ND	4.63	3.60	3.20	73100-0070
6	—	Jack, 50Ω PCB Mount	WM5524-ND	2.62	2.02	1.82	73100-0105
7	—	T-Adapter Jack, 50Ω	WM5516-ND	6.96	5.63	5.09	73148-5003
BNC Connectors, Straight							
8	—	Jack, 75Ω PCB Mount	WM5589-ND	4.96	3.85	3.42	73101-0030
	—	Jack, 75Ω PCB Mount	WM5512-ND	6.54	5.29	4.78	73101-0680
	—	Jack, 50Ω PCB Mount	WM5513-ND	3.97	3.08	2.74	73131-5013
9	—	Jack, 75Ω PCB Mount	WM5517-ND	2.42	1.86	1.68	73171-1900
10	—	Jack, 75Ω PCB Mount	WM5509-ND	4.20	3.26	2.90	73101-0360
11	—	Jack, 50Ω PCB Mount	WM5526-ND	6.27	4.87	4.33	73100-0153
12	—	Jack, Bulkhead 50Ω	WM5527-ND	5.72	4.44	3.95	73100-0195
SMA Connectors, Right Angle							
13	—	Jack, 50Ω PCB Mount	WM5525-ND	5.68	4.41	3.92	73100-0114
14	—	Jack, 50Ω PCB Mount	WM5537-ND	9.12	7.94	7.14	73251-2201
15	—	Plug, 50Ω for RG174 / RG179 / RG187 / RG188 / RG316 Cable	WM5545-ND	7.47	6.04	5.46	73391-0230
SMA Connectors, Straight							
16	—	Jack, 50Ω PCB Mount	WM5543-ND	4.79	3.72	3.31	73391-0060
	—	Jack, 50Ω PCB Mount with Standoffs	WM5544-ND	5.72	4.44	3.95	73391-0070
17	—	Plug, 50Ω for RG402 Cable	WM5531-ND	7.96	6.44	5.83	73251-0031
18	—	Plug, 50Ω for RG316 Cable	WM5532-ND	5.78	4.49	3.99	73251-0450
19	—	Plug, 50Ω for RG405 Cable	WM5538-ND	8.14	7.08	6.37	73251-2430
20	—	Jack, Bulkhead 50Ω with Heat Shrink Tube	WM5533-ND	8.24	6.66	6.02	73251-0930
21	—	Jack, 50Ω Edge Mount	WM5534-ND	5.69	4.42	3.93	73251-1150
22	—	Jack, 50Ω Edge Mount	WM5536-ND	5.93	4.60	4.09	73251-2120
23	—	Jack, 50Ω Bulkhead, RG316 / RG174 Cable with Hardware	WM5546-ND	5.37	4.17	3.71	73391-0260
24	—	Jack, Flange Mount 50Ω	WM5535-ND	16.81	15.69	15.13	73251-1850
SMB Connectors, Right Angle							
25	—	Jack, 50Ω PCB Mount	WM5523-ND	5.21	4.05	3.60	73100-0103
26	—	Plug, 50Ω RG174 / RG188 / RG316 Cable	WM5530-ND	8.41	7.31	6.58	73100-0257
SMB Connectors, Straight							
27	—	Jack, 50Ω PCB Mount	WM5528-ND	3.77	2.93	2.61	73100-0207
28	—	Plug, 50Ω RG174 / RG188 / RG316 Cable	WM5529-ND	6.71	5.43	4.91	73100-0248
29	—	Plug, 50Ω RG174 Cable	WM5547-ND	7.25	5.63	5.00	73404-0710
MCX Connectors, Right Angle							
30	—	Jack, 50Ω PCB Mount	WM5540-ND	4.43	3.44	3.06	73366-0030
31	—	Jack, 75Ω PCB Mount	WM5548-ND	6.34	4.92	4.37	73415-0780
32	—	Plug, 50Ω RG316 Cable	WM5539-ND	5.99	4.65	4.14	73366-0010
	—	Plug, 75Ω RG179 Cable	WM5563-ND	6.11	4.74	4.22	73415-5190
MCX Connectors, Straight							
33	—	Jack, 50Ω PCB Mount	WM5541-ND	2.93	2.28	2.03	73366-0061
34	—	Jack, 50Ω Surface Mount	WM5559-ND	2.52	1.94	1.75	73415-1691
35	—	Jack, 75Ω Surface Mount	WM5558-ND	3.83	2.98	2.65	73415-1631
36	—	Jack, 50Ω Bulkhead PCB Mount	WM5553-ND	5.93	4.60	4.09	73415-1040
37	—	Plug, 50Ω RG316 Cable	WM5542-ND	4.33	3.36	2.99	73366-0301
	—	Plug, 75Ω RG179 Cable	WM5562-ND	5.10	3.96	3.52	73415-4490
MMCX Connectors, Right Angle							
38	—	Jack, 50Ω PCB Mount	WM5552-ND	8.03	6.49	5.87	73415-1001
39	—	Plug, 50Ω RG178 / RG196 Cable	WM5549-ND	6.35	4.93	4.38	73415-0951
	—	Plug, 50Ω SR086 Cable	WM5561-ND	6.89	5.35	4.75	73415-2161
40	—	Plug, 50Ω RG316 Cable	WM5554-ND	8.19	7.13	6.42	73415-1121
MMCX Connectors, Straight							
41	—	Jack, 50Ω PCB Mount	WM5557-ND	3.26	2.54	2.25	73415-1471
42	—	Jack, 50Ω Edge Mount	WM5550-ND	3.17	2.47	2.19	73415-0961
43	—	Jack, 50Ω Edge Mount	WM5556-ND	3.71	2.89	2.57	73415-1261
44	—	Jack, 50Ω Surface Mount	WM5560-ND	3.65	2.84	2.52	73415-2061
45	—	Plug, 50Ω RG178 / RG196 Cable	WM5551-ND	6.20	4.81	4.28	73415-0971
46	—	Plug, 50Ω RG316 Cable	WM5555-ND	5.21	4.05	3.60	73415-1251
Micro Coaxial Connectors, SMD							
47	—	Jack, 50Ω, Vertical	WM5587CT-ND†	.68	.52	.42	73412-0110
	—	Jack, 50Ω, Vertical	WM5587TR-ND‡	1275.005,000			73412-0110
Cable Assemblies							
MCX to MCX Connectors, Right Angle							
48	6”	MCX Plug to MCX Plug, 50Ω RG316	WM6140-ND	14.89	13.54	10.83	89761-6133
	12”	MCX Plug to MCX Plug, 50Ω RG316	WM6141-ND	16.17	14.70	11.76	89761-6134
	18”	MCX Plug to MCX Plug, 50Ω RG316	WM6142-ND	17.45	15.87	12.70	89761-6135
MCX to MCX Connectors, Straight							
49	6”	MCX Plug to MCX Plug, 50Ω RG316	WM6137-ND	14.42	13.11	10.49	89761-6760
	12”	MCX Plug to MCX Plug, 50Ω RG316	WM6138-ND	16.32	14.84	11.88	89761-6761
	18”	MCX Plug to MCX Plug, 50Ω RG316	WM6139-ND	18.27	16.61	13.29	89761-6762
MMCX to MMCX Connectors, Right Angle							
50	6”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6149-ND	21.57	19.61	15.69	89761-6790
	12”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6150-ND	23.20	21.10	16.88	89761-6791
	18”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6151-ND	24.87	22.62	18.10	89761-6792
MMCX to MMCX Connectors, Straight							
51	6”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6146-ND	20.87	18.98	15.18	89761-6780
	12”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6147-ND	23.09	20.99	16.79	89761-6781
	18”	MMCX Plug to MMCX Plug, 50Ω RG316	WM6148-ND	25.34	23.04	18.43	89761-6782
MCX to SMA Connectors							
52	6”	MCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6143-ND	15.86	14.42	11.54	89761-6770
	12”	MCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6144-ND	17.53	15.94	12.75	89761-6771
	18”	MCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6145-ND	19.20	17.46	13.97	89761-6772
MMCX to SMA Connectors							
53	6”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG178	WM6152-ND	20.56	18.70	14.96	89761-6800
	12”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG178	WM6153-ND	22.78	20.71	16.57	89761-6801
	18”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG178	WM6154-ND	25.03	22.76	18.21	89761-6802
54	6”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG316	WM6155-ND	18.77	17.07	13.66	89761-6810
	12”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG316	WM6156-ND	20.99	19.08	15.27	89761-6811
	18”	MMCX Str. Plug to SMA Blkhd. Jack, 50Ω RG316	WM6157-ND	23.24	21.13	16.91	89761-6812
55	6”	MMCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6158-ND	16.32	14.84	11.88	89761-6820
	12”	MMCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6159-ND	17.92	16.29	13.04	89761-6821
	18”	MMCX R/A Plug to SMA Blkhd. Jack, 50Ω RG316	WM6160-ND	19.51	17.74	14.19	89761-6822

† Cut Tape ‡ Tape and Reel

Kit

WM8492-ND (76650-0171) **Radio Frequency BNC Connector Kit**; (PCB Mount BNC Vertical and Right Angle Receptacle) **$17.47**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Hirose - *A Leading Company of Wireless LAN Connectors*

U.FL SMD Ultra-Miniature Coaxial Connectors and Assemblies

U.FL Series: Industry Standard for Bluetooth and Wireless LAN (World's Smallest and Lightest Coaxial Connectors, meeting frequencies up to 6GHz)

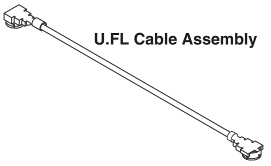
U.FL Cable Assembly

U.FL SMD Receptacle

Required Board Space for Receptacle

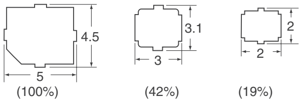

Mating Height

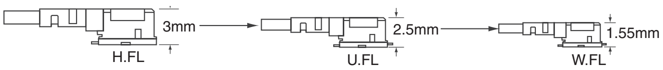

FEATURES:
- Extremely Small Board Occupation resulting in an area of just 7.7mm^2
- Mating Height from the printed circuit board when it mates a receptacle with a (right angle) plug is 2.5mm maximum
- The embossed tape packaging of the receptacles permits automatic mounting
- The extraction tool permits simple removal of the connectors
- Mating checks are made easy with the lock sensation it permits a check of sure mating

APPLICATIONS:
- Mobile phones
- Wireless communications equipment
- Electronic measuring instruments
- GPS
- Wireless LAN
- Bluetooth

SPECIFICATIONS:
- Nominal Characteristic Impedance: 50Ω
- Operating Temperature Range: -40°C ~ 90°C
- Operating Humidity: 90% maximum
- Contact Resistance: Center: 20mΩ maximum (Receptacle); 25mΩ maximum (Plug) Outside: 10mΩ maximum
- Insulation Resistance: 500MΩ minimum
- V.S.W.R.: 1.3 ~ 1.5 maximum

MATERIAL AND FINISH:
- Shell: Phosphor bronze, silver plating (receptacle), gold plating (plug)
- Center Contact: Phosphor bronze, gold plating
- Insulator: Plug: PBT, black, UL94V-0; Receptacle: LCP, beige, UL94V-0

Fig. 1

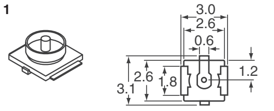

Fig. 2 ***NEW!***

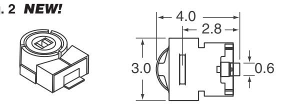

Fig. 3

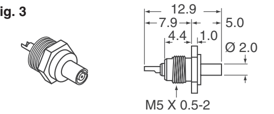

Fig. 4

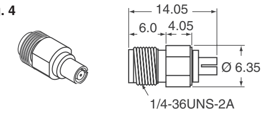

Fig. 5

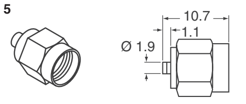

Fig. 6

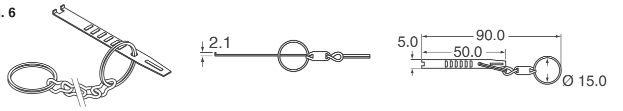

Fig. 7

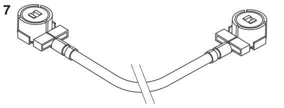

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	Receptacle Coaxial SMD	H9161-ND	1.44	1.18	.95	.86	U.FL-R-SMT(01)
	Receptacle Coaxial SMD	H9161CT-ND†	1.46	1.19	.96	.87	U.FL-R-SMT(10)
	Receptacle Coaxial SMD	H9161TR-ND‡	1170.00/2,500		2295.00/5,000		U.FL-R-SMT(10)
2	Plug Coaxial SMD	H11809CT-ND† ***NEW!***	4.15	3.44	2.86	2.58	U.FL-PR-SMT-2.5-1(10)
	Plug Coaxial SMD	H11809TR-ND‡ ***NEW!***	4557.50/2,500		8940.00/5,000		U.FL-PR-SMT-2.5-1(10)
3	Inspection Receptacle	H9160-ND	18.15	17.55	16.34	15.73	U.FL-R-1
4	Adapter Side U.FL Plug/SMA Side Jack	H11454-ND	20.55	19.87	18.50	17.81	HRMJ-U.FLP(40)
5	Adapter Side U.FL Jack/SMA Side Plug	H11453-ND	16.95	16.39	15.26	14.69	HRMP-U.FLJ(40)
6	Removal Tool	H9159-ND	17.55	16.97	15.80	15.21	U.FL-LP-N-2
	Removal Tool for Low Profile	HR5017-ND	17.55	16.97	15.80	15.21	U.FL-LP(V)-N-2

† Cut Tape **‡** Tape and Reel

Fig.	Cable Type	Cable Diameter (mm)	Cable Length (mm)	Mating Height (mm)	Frequency (GHz)	Shield	Weight (mg)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
U.FL/U.FL Cable Assemblies — Gray													
7	04	0.81	100	2.4	3	Single	53.7	HR5008-ND	6.58	5.57	4.69	4.18	U.FL-2LP-04N1-A-(100)
		0.81	200	2.4	3	Single	53.7	H9162-ND	6.89	5.83	4.91	4.38	U.FL-2LP-04N1-A-(200)
		0.81	500	2.4	3	Single	53.7	H9163-ND	7.80	6.60	5.55	4.95	U.FL-2LP-04N1-A-(500)
		0.81	1000	2.4	3	Single	53.7	HR5007-ND	8.28	7.20	6.48	5.76	U.FL-2LP-04N1-A-(1000)
	068	1.13	100	2.4	6	Single	53.7	HR5012-ND	6.68	5.66	4.76	4.25	U.FL-2LP-068N1-A-(100)
		1.13	200	2.4	6	Single	53.7	H9166-ND	7.10	6.01	5.06	4.51	U.FL-2LP-068N1-A(200)
		1.13	500	2.4	6	Single	53.7	H9167-ND	8.32	7.04	5.92	5.28	U.FL-2LP-068N1-A-(500)
		1.13	1000	2.4	6	Single	53.7	HR5011-ND	9.18	7.98	7.19	6.39	U.FL-2LP-068N1-A-(1000)
	066	1.32	100	2.4	6	Double	59.1	HR5010-ND	6.68	5.66	4.76	4.25	U.FL-2LP-066J1-A-(100)
		1.32	200	2.4	6	Double	59.1	H9164-ND	7.12	6.03	5.07	4.53	U.FL-2LP-066J1-A-(200)
		1.32	500	2.4	6	Double	59.1	H9165-ND	8.40	7.11	5.98	5.33	U.FL-2LP-066J1-A-(500)
		1.32	1000	2.4	6	Double	59.1	HR5009-ND	9.34	8.12	7.31	6.50	U.FL-2LP-066J1-A-(1000)
	088	1.37	100	2.4	6	Single	71.7	H5022-ND	6.60	5.59	4.70	4.20	U.FL-2LP-088K1T-A-(100)
		1.37	200	2.4	6	Single	71.7	H5023-ND	6.97	5.90	4.96	4.43	U.FL-2LP-088K1T-A-(200)
		1.37	500	2.4	6	Single	71.7	H5024-ND	8.03	6.80	5.72	5.10	U.FL-2LP-088K1T-A-(500)
		1.37	1000	2.4	6	Single	71.7	H5021-ND	8.67	7.54	6.79	6.04	U.FL-2LP-088K1T-A-(1000)
U.FL/U.FL Cable Assemblies — Black													
7	04	0.81	100	2.5	6	Single	53.7	H11542-ND	6.58	5.57	4.69	4.18	U.FL-2LP-04N2-A-(100)
		0.81	200	2.5	6	Single	53.7	H11543-ND	6.89	5.83	4.91	4.38	U.FL-2LP-04N2-A-(200)
		0.81	500	2.5	6	Single	53.7	H11544-ND	7.80	6.60	5.55	4.95	U.FL-2LP-04N2-A-(500)
		0.81	1000	2.5	6	Single	53.7	H11553-ND	8.66	7.33	6.17	5.50	U.FL-2LP-04N2-A-(1000)
	068	1.13	100	2.5	6	Single	53.7	H11545-ND	6.68	5.66	4.76	4.25	U.FL-2LP-068N2-A-(100)
		1.13	200	2.5	6	Single	53.7	H11547-ND	7.10	6.01	5.06	4.51	U.FL-2LP-068N2-A-(200)
		1.13	500	2.5	6	Single	53.7	H11548-ND	8.32	7.04	5.92	5.28	U.FL-2LP-068N2-A-(500)
		1.13	1000	2.5	6	Single	53.7	H11546-ND	9.18	7.98	7.19	6.39	U.FL-2LP-068N2-A-(1000)
	066	1.32	100	2.5	6	Double	59.1	H11555-ND	7.19	5.96	4.96	4.47	U.FL-2LP-066J2-A-(100)
		1.32	200	2.5	6	Double	59.1	H11557-ND	7.12	6.03	5.07	4.53	U.FL-2LP-066J2-A-(200)
		1.32	500	2.5	6	Double	59.1	H11558-ND	8.40	7.11	5.98	5.33	U.FL-2LP-066J2-A-(500)
		1.32	1000	2.5	6	Double	59.1	H11556-ND	9.02	7.84	7.06	6.28	U.FL-2LP-066J2-A-(1000)
	088	1.37	100	2.4	6	Single	71.7	H11549-ND	6.60	5.59	4.70	4.20	U.FL-2LP-088K2T-A-(100)
		1.37	200	2.4	6	Single	71.7	H11551-ND	6.97	5.90	4.96	4.43	U.FL-2LP-088K2T-A-(200)
		1.37	500	2.4	6	Single	71.7	H11552-ND	8.03	6.80	5.72	5.10	U.FL-2LP-088K2T-A-(500)
		1.37	1000	2.4	6	Single	71.7	H11550-ND	8.67	7.54	6.79	6.04	U.FL-2LP-088K2T-A-(1000)
Low Profile U.FL/U.FL Cable Assemblies — Gray													
7	04	0.81	100	2.4	3	Single	34.8	HR5014-ND	6.58	5.57	4.69	4.18	U.FL-2LP(V)-04N1-A-(100)
		0.81	200	2.4	3	Single	34.8	HR5015-ND	6.89	5.83	4.91	4.38	U.FL-2LP(V)-04N1-A-(200)
		0.81	500	2.4	3	Single	34.8	HR5016-ND	7.80	6.60	5.55	4.95	U.FL-2LP(V)-04N1-A-(500)
		0.81	1000	2.4	3	Single	34.8	HR5013-ND	8.74	7.60	6.84	6.08	U.FL-2LP(V)-04N1-A-(1000)
Low Profile U.FL/U.FL Cable Assemblies — Black													
7	04	0.81	100	2.0	6	Single	34.8	H11539-ND	6.58	5.57	4.69	4.18	U.FL-2LP(V)-04N2-A-(100)
		0.81	200	2.0	6	Single	34.8	H11540-ND	6.89	5.83	4.91	4.38	U.FL-2LP(V)-04N2-A-(200)
		0.81	500	2.0	6	Single	34.8	H11541-ND	7.80	6.60	5.55	4.95	U.FL-2LP(V)-04N2-A-(500)
		0.81	1000	2.0	6	Single	34.8	H11554-ND	8.28	7.56	6.48	5.76	U.FL-2LP(V)-04N2-A-(1000)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO., LTD.

W.FL Series Connectors — World's Lowest Profile, Ultra Small Coaxial Connectors (1.4mm Stacking Height)

Applications: • Mobile phones • Wireless PDA's • Wireless LAN • Bluetooth communication protocol • Wireless communication equipment • GPS

Fig. 1

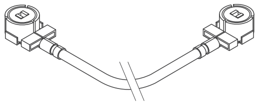

Fig. 2

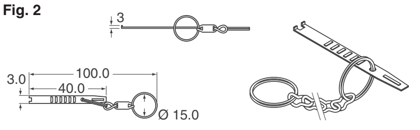

Fig. 3

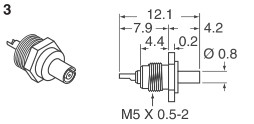

Fig. 4

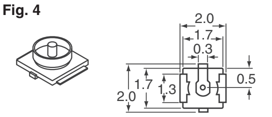

Performance	Standard	Conditions
Characteristic Impedance	50Ω	—
Insulation Resistance	500MΩ or greater	100VDC
Withstanding Voltage	200VAC	1 Minute
Contact Resistance	Inner 20MΩ, Outer 10MΩ or less	100mA or less
V.S.W.R.	1.3 or less	Up to 3GHz

Part	Material	Finish
Outer Conductor	Phosphor Bronze	Silver Plating
Inner Conductor	Phosphor Bronze	Gold Plating
Insulator	PBT, LCP	Black, UL94V-0

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Ultra Cable Assembly, 35mm	H11561-ND	6.66	5.64	4.74	W.FL-2LPG-062N2D-A-(35)
	Ultra Cable Assembly, 40mm	H11562-ND	6.79	5.62	4.68	W.FL-2LPG-062N2D-A-(40)
	Ultra Cable Assembly, 70mm	H11563-ND	7.67	6.49	5.46	W.FL-2LPG-062N2D-A-(70)
	Ultra Cable Assembly, 100mm	H11560-ND	6.89	5.83	4.91	W.FL-2LPG-062N2D-A-(100)
	Ultra Cable Assembly, 200mm	H11583-ND	7.80	6.60	5.55	W.FL-2LPG-062N2D-A-(200)
	Ultra Cable Assembly, 500mm	H11584-ND	6.50	5.50	4.63	W.FL-2LPG-062N2D-A-(500)
	Ultra Cable Assembly, 1000mm	H11582-ND	7.85	6.65	5.59	W.FL-2LPG-062N2D-A-(1000)
	Ultra Cable Assembly, 100mm	H9168-ND	7.22	5.98	4.98	W.FL-2LP-04N1-A-(100)
	Ultra Cable Assembly, 200mm	H11585-ND	6.73	5.70	4.80	W.FL-2LP-04N1-A-(200)
	Ultra Cable Assembly, 1000mm	H9169-ND	9.00	7.62	6.41	W.FL-2LP-04N1-A-(1000)
2	Extraction Tool for W.FL Series	H9171-ND	86.66	—	—	W.FL-LP-N
3	Inspection Receptacle	H9172-ND	24.90	24.07	22.41	W.FL-R-1
4	Ultra Low Coax SMD Receptacle	H9173CT-ND	1.67	1.37	1.10	W.FL-R-SMT-1(10)
	Ultra Low Coax SMD Receptacle	H9173TR-ND	1144.00/2,000			W.FL-R-SMT-1(10)

Miniature RF Connectors

Fig. 1

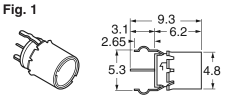

Fig. 2

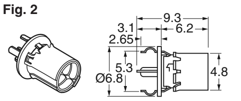

Fig. 3

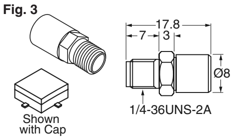

Fig. 4

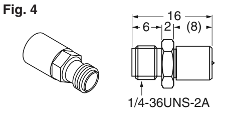

Fig. 5

Double End

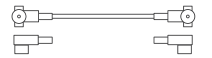

Fig. 6

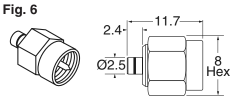

Fig. 7

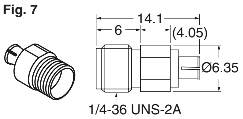

Fig. 8

Single End

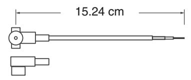

Fig. 9

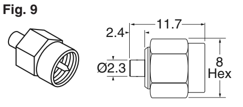

Fig. 10

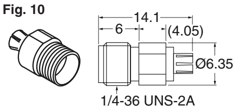

Fig. 11

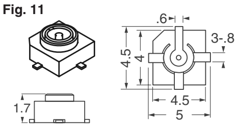

Fig. 12

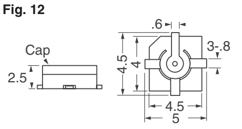

Fig. 13

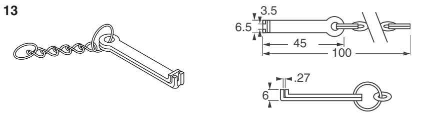

FL (Finger-Lock) Series Coaxial Connectors: Low-profile microminiature high-frequency connectors. The FL Series connectors are low-profile microminiature coaxial connectors intended for high-density packaging of components on printed circuit boards. The FL Series is ideal for high-density circuit board wiring in signal transmission applications at high frequencies up to 1GHz.
Features: • High-level matching: Maximum V.S.W.R. is only 1.2 at frequencies up to 1GHz.
Applications: Typical applications include cellular telephones, radio communications equipment, electronic measuring instruments, CATV, control units, etc.
Material and Finish: • Shell: Brass or phosphor bronze, silver plating • Center contact (male): Brass, gold plating • Center contact (female): Phosphor bronze, gold plating • Insulation: Polybutylene terephthalate (PBT), black.
Performance Characteristics: • Characteristic impedance: 50Ω • Insulation resistance: 1000MΩ or more (at 250VDC) • Contact resistance: 10mΩ or less for both center and outer conductors (at 1 ADC) • Withstanding voltage: 250VAC (rms) for one minute • Coupling/removal force: 300 gf or more • Life of contacts: 50 times of use

S.FL2 Series Coaxial Connectors: S.FL2 (Super FL Type 2 Coaxial Connector) Series is a surface mount, low profile, miniature coaxial connector intended for high density packaging. Compared to Hirose's FL Series connectors, the S.FL2 Series offers a 50% reduced profile when assembled, achieving increased density of internal wiring for high frequency transmission applications.
Features: • Highly flexible, offers high frequency performance below V.S.W.R. 1.2 over 0-2000MHz range.

H.FL Series Coaxial Connectors: The H.FL connectors have a lower profile, with a mounted height of approximately 30% that of our S.FL2 connectors. They occupy 20% less board space, allowing higher density internal wiring.
Features: • High frequency response of V.S.W.R. 1.3 or less from D.C. to 3000MHz.
Material and Treatment: • Shell: Phosphor bronze, silver plating • Insulator: PBT plastic (plug side), black; Liquid crystal polymer (receptacle side), black • Male center contact: Bronze, gold plating • Female center contact: Phosphor bronze, gold plating.
Performance Characteristics: • Characteristic impedance: 50Ω and 75Ω • Insulation resistance: 500MΩ or greater at DC 250V • Contact resistance: 20mΩ (center), 10mΩ (exterior) at DC 10mA • Dielectric strength: AC 300V (r.m.s.), 1 minute • Contact service life: 50 times • Voltage standing wave ratio: 1.3 or less, DC to 3000MHz (target value)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	FL Series					
1	Receptacle PC MT	H9142-ND	3.15	2.62	1.94	FL-R-PC(1)
2	Receptacle with Washer	H9143-ND	4.50	3.72	2.79	FL-R-PC(3)
3	Adapter Jack/SMA Jack	H11447-ND	57.40	54.53	51.25	HRMJ-FLJ(40)
4	Adapter Plug/SMA Jack	H11448-ND	37.24	35.38	33.25	HRMJ-FLP-1(40)
5	6" (15.24cm) FL/FL Cable Assembly	229-1000-ND	40.80	38.25	35.07	4189-06
5	12" (30.48cm) FL/FL Cable Assembly	229-1001-ND	43.10	40.41	37.05	4189-12
5	12" (30.48cm) FL/SMA Cable Assembly	229-1002-ND	43.10	40.41	37.05	4192-12
	S.FL2 Series					
6	Adapter Jack/SMA Plug	H11451-ND	15.04	13.92	11.66	HRMP-S.FLJ(40)
7	Adapter Plug/SMA Jack	H11452-ND	37.35	36.11	32.37	HRMJ-S.FLP(40)
5	6" (15.24cm) S.FL2/S.FL2 Cable Assembly	229-1008-ND	26.91	25.23	23.13	2189-06
5	12" (30.48cm) S.FL2/S.FL2 Cable Assembly	229-1009-ND	21.28	19.95	18.29	2189-12
5	12" (30.48cm) S.FL2/SMA Cable Assembly	229-1010-ND	39.71	37.23	34.13	2192-12
8	6" (15.24cm) S.FL2 Single End Cable Assembly	229-1011-ND	26.66	24.99	22.91	2191-6
	H.FL Series					
9	Adapter Jack/SMA Plug	H11450-ND	21.60	20.88	18.72	HRMP-H.FLJ(40)
10	Adapter Plug/SMA Jack	H11449-ND	25.05	24.22	21.71	HRMJ-H.FLP-3(40)
11	Receptacle Coaxial SMT	H9147-ND	1.72	1.44	1.06	H.FL-R-SMT(01)
12	Receptacle Coaxial with Cap SMT	H9148CT-ND	1.79	1.49	1.10	H.FL-R-SMT(C)(10)
12	Receptacle Coaxial with Cap SMT	H9148TR-ND	1752.50/2,500			H.FL-R-SMT(C)(10)
13	Removal Tool (H.FL Series)	H9151-ND	47.32	—	—	H.FL-LP-N
5	3.94" (10cm) H.FL/H.FL Cable Assembly	H5018-ND	8.76	7.42	5.57	H.FL75-2LP-084H-A-100
5	19.69" (50cm) H.FL/H.FL Cable Assembly	H5020-ND	10.74	9.34	7.48	H.FL75-2LP-084H-A-500
5	39.37" (100cm) H.FL/H.FL Cable Assembly	H5019-ND	13.96	12.92	10.82	H.FL75-2LP-084H-A-1000
5	6" (15.24cm) H.FL/H.FL Cable Assembly	229-1004-ND	13.28	12.45	11.42	1189-06
5	12" (30.48cm) H.FL/H.FL Cable Assembly	229-1005-ND	15.20	14.25	13.07	1189-12
5	12" (30.48cm) H.FL/SMA Cable Assembly	229-1006-ND	29.12	27.30	25.03	1192-12
8	6" (15.24cm) H.FL Single End Cable Assembly	229-1007-ND	13.28	12.45	11.42	1191-06

Coaxial Switching Connector MS-147 Series

The switching function is accomplished by mating with the corresponding plug. The transmission is redirected from normal direction to the plug assembly. The surface mounted receptacle protrudes above the board 3.9mm. The MS147 has an insertion loss of 0.15dB **Characteristics:** Impedance of 50Ω, isolation of 25dB minimum (DC-2.0GHz) and 20dB (2.0GHz ~ 2.5GHz). Self-aligning within 0.5mm and with a guaranteed durability of 12,000 mating/unmating cycles **Applications:** Most mobile phones and circuit testing applications

Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Interface Coaxial Switching Receptacle	H2800CT-ND	1.82	1.40	1.12	MS-147(06)
Interface Coaxial Switching Receptacle	H2800TR-ND	1117.50/1,500			MS-147(06)
Mating Adapter	H2801-ND	18.30	17.08	15.86	MS-147-HRMJ-1
Right Angle Plug	H2802-ND*	16.05	14.98	13.91	MS-147-C(LP)-1

* Application cable for plug: 1.5D-HQEW (manufactured by Fujikura Ltd.)

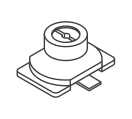

HIROSE ELECTRIC CO., LTD.

Coaxial Switching Connector

MS-145 Series

Fig. 1

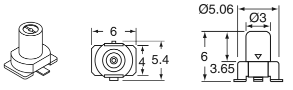

Fig. 2

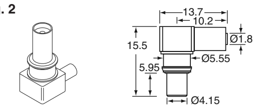

Fig. 3

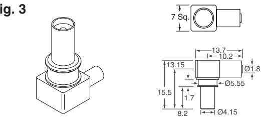

Fig. 4

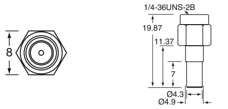

Fig. 5

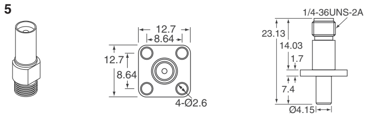

Fig. 6

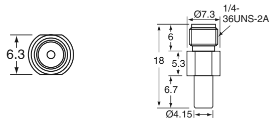

Plug Applications

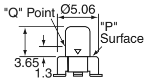

Features: Designed as interface coaxial switches, and other applications requiring redirecting of signals when mating with corresponding plugs. The mating action redirects the signals from the receptacle side to the plug side. **Specifications:** • **Frequency Range:** From DC to 2.5GHz and with GSM, PCS, cdma-One, W-CDMA, etc. • **Low Profile:** Low protrusion of only 6mm above the mounting surface (receptacle). • **Durability:** High durability (mating/unmating) of 10,000 cycles. Self alignment of mating parts. Inducement to floating is +/-0.5mm. • Engages by pushing up to the 5.06mm diameter shoulder (P surface) of the MS-145 (MS-145-C(LP)-1 engages up to a position (Q point) of 1.3mm from the 5.06mm diameter shoulder of the MS-145). Applications: • Mobile phone antenna switching • Checks of microwave boards, etc.

Fig.	Description	Effect. Engage. Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Interface Coaxial Switch Receptacle	—	H11441CT-ND‡	1.89	1.45	1.16	MS-145NB
	Interface Coaxial Switch Receptacle	—	H11441TR-ND†		771.00/1,000		MS-145NB
2	Plug	1.32	H2805-ND§	15.75	14.70	13.65	MS-145-C(LP)-A
3	Plug	1.32	H2806-ND§	16.15	14.78	13.30	MS-145-C(LP)-MI
4	SMA Adaptor to Male	1.32	H2807-ND	18.15	16.94	15.73	MS-145-HRMP-A
5	SMA Adaptor to Female, Panel Mount	0.82	H2808-ND	25.05	23.38	21.71	MS-145-HRMJ
6	SMA Adaptor to Female, Straight	1.32	H2809-ND	18.15	16.94	15.73	MS-145-HRMJ-A-D

§ Applicable cable for plugs: 1.5D-HQEW or 1.5D-QEW (manufactured by Fujikura Ltd.) ‡ Cut Tape † Tape and Reel

Miniature Interface Coaxial Switch MS-162 Series

Features: Designed to be used as the interface antenna connection for portable terminal devices as well as circuit testing on microwave boards (DC to 10 GHz) the coaxial switch offers high performance, low loss, extremely high durability and reliability, in a small and lightweight package. **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Rated Power: 4W • Frequency Range: DC to 10GHz • Contact Resistance: 100mΩ max. @ 100mA • Insulation Resistance: 1000MΩ min. @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute **Material Specifications:** • Shell: Brass; Gold Plated • Insulators: Polyamide; UL94V-0 • Common Terminal: Beryllium Copper; partially gold plated (Nickel barrier) • Antenna Terminal: Phosphor Bronze; partially gold plated (Nickel barrier)

Fig. 1

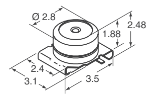

Fig. 2

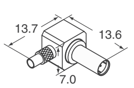

Fig. 3

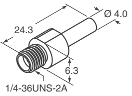

Fig. 4

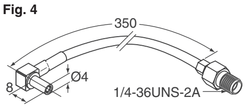

Fig. 5

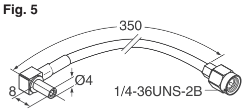

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Receptacle	H11415-ND	3.09	2.38	1.90	MS-162(01)
1	Receptacle	H11415TR-ND†		1365.00/3,000		MS-162
1	Receptacle	H11568-ND	1.92	1.48	1.18	MS-162A(01)
1	Receptacle	H11568TR-ND†		858.00/3,000		MS-162A
2	Plug	H11416-ND	17.70	16.52	15.34	MS-162-C(LP)-1
3	SMA Conversion Adapter	H11417-ND	17.34	15.87	14.28	MS-162-HRMJ-1
4	Cable Assembly MS-162 Plug-SMA Jack	H11569-ND	46.34	43.03	41.38	MS162L1-HRMJ-15W350
5	Cable Assembly MS-162 Plug-SMA Plug	H11570-ND	60.62	56.29	54.13	MS162L1-HRMP-15W350

† Tape and Reel

Interface RF Connector with Switch MS-151C Series

Features: • Designed for end user applications requiring re-direction of the transmission • Small size, lightweight and high reliability make it ideal for use in wireless applications requiring bandwidth of up to 6GHz • Built-in interlock feature confirms fully mated condition with a "click" sensation • The connector can be mated in any position on a 360° axis and can rotate within the same when in use **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Rated Power: 4W • Frequency Range: DC to 6GHz • Contact Resistance: 50mΩ max. @ 100mA • Insulation Resistance: 1000MΩ min. @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute **Material Specifications:** ***Receptacle:*** • Insulators: Polyamide; UL94V-0 • Locking Mating Section: Stainless Steel; Gold plated • Outer Conductor: Phosphor bronze; Gold plated ***Plug:*** • Ring: Stainless Steel; Nickel plated • Outer Conductor: Phosphor bronze; Nickel plated • Inner Contact: Phosphor Bronze; Gold plated • Insulator: PTFE • Ferrule: Phosphor bronze • Bushing: TPEE-M

Fig. 1

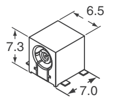

Fig. 2

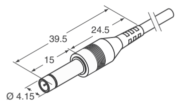

Fig. 3

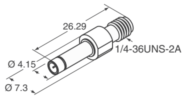

Fig. 4

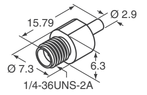

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Right Angle SMD Receptacle	H11411CT-ND‡	5.28	4.10	3.28	MS-151C
2	Cable Mount Plug	H11412-ND	16.95	15.82	14.69	MS-151-C(BP)
3	SMA Conversion Adapter for Receptacle MS-151C	H11413-ND	110.74	102.83	98.88	MS151P-HRMJ-1
4	SMA Conversion Adapter for Plug MS-151C(BP)	H11414-ND	81.76	75.92	73.00	MS151J-HRMJ

‡ Cut Tape

HV Coaxial Connector Plug Termination and HV Connector Attenuators

HV-TM and HV-AT Series

Applications: • Optical transmission devices • Network analyzers • BERTS (Bit Error Ratio Testing Systems) • FWA (Fixed Wireless Access) • Measurement applications requiring transmission frequencies of up to 65GHz **Specifications:** • Operating Temperature Range: -10°C ~ 65°C • Rated Power: HV-TM Series: 0.5W @ 65°C; HV-AT Series: 1W @ 65°C • Frequency Range: DC to 65GHz • Characteristic Impedance: 50Ω **Material Specifications:** • Shell: Stainless Steel; Passivated • Insulator: PTFE (Polytetrafluoroethylene) • Male Contact: Brass; Gold plated • Female Contact: HV-AT Series only: Beryllium Copper; Gold plated • Coupling: Stainless Steel; Passivated • Attenuation Element: Metal Film

Fig. 1

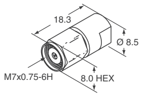

Fig. 2

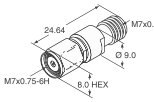

Fig.	Description	Digi-Key Part No.	Price Each	Hirose Part No.
1	"V" Type Plug Terminator	H11418-ND	1365.00	HV-TMP-(40)
2	0 dB Fixed Attenuator	H11419-ND	730.60	HV-AT(0)-PJ
	3 dB Fixed Attenuator	H11420-ND	730.60	HV-AT(3)-PJ
	6 dB Fixed Attenuator	H11421-ND	730.60	HV-AT(6)-PJ
	10 dB Fixed Attenuator	H11422-ND	730.60	HV-AT(10)-PJ
	20 dB Fixed Attenuator	H11423-ND	730.60	HV-AT(20)-PJ

NEW! Couplers with Connectors

(H Type and I Type) - HDH Series

Features: The high frequency characteristics feature extremely low loss, a high degree of matching, and high isolation; Corrosion-resistant aluminum is used for the case and the pattern design uses a stripline triplate method, enabling the couplers to be minature and lightweight **Specifications:** • Characteristic impedance: 50Ω • Maximum input power: 2 ~ 50W • Operating temperature range: -10°C ~ 65°C **Material Specifications:** • Connector Body: Stainless steel, passivated finish • Connector female contacts: Berylium copper, Gold plating finish • Connector Insulator: PTFE • Case: Aluminum, Coating finish • Board: Dielectric, Gold plating finish

Fig. 1

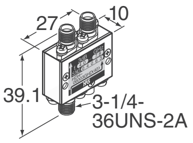

Fig. 2

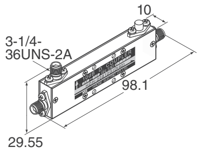

Fig.	Description	Digi-Key Part No.	Price Each	Hirose Part No.
1	6.0GHZ H Type Coupler, 3DB	H11874-ND	339.15	HDH-06003GHD(40)
2	0.8GHZ I Type Coupler, 10DB	H11875-ND	252.70	HDH-00810GID(40)
	0.8GHZ I Type Coupler, 20DB	H11876-ND	252.70	HDH-00820GID(40)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HRS
HIROSE ELECTRIC CO., LTD.

Subminiature Coaxial Switch Connectors MS-156 Series

Digi-Reel® RoHS COMPLIANT

Fig. 1

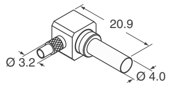

Fig. 2

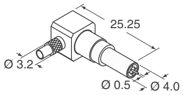

Fig. 3

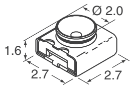

Fig. 4

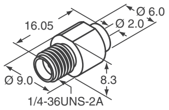

Fig. 5

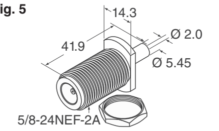

Fig. 6

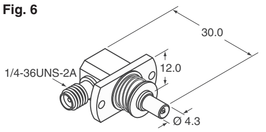

Fig. 7

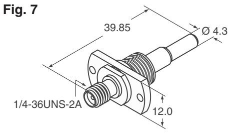

Fig. 8

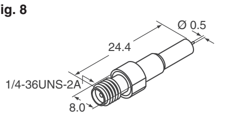

Fig. 9

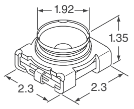

Features:
- Developed for inspection of high frequency circuits used in portable terminals
- Verification of the circuit performance is accomplished by simply inserting the external plug in the board mounted receptacle

Specifications:
- Operating Temperature Range: -40°C ~ 85°C
- Rated Power: 2W
- Frequency Range: DC ~ 6GHz (DC ~ 11GHz for MS-156C Series)
- Contact Resistance: 100mΩ maximum @ 100mA maximum
- Insulation Resistance: 1000MΩ @ 100VDC
- Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute

Material Specifications:
- Shell: Phosphor Bronze; Gold plating
- Insulator: Nylon
- Common Terminal: Gold plating
- Antenna Terminal: Gold plating

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Press Down Type Plug	H11378-ND	51.38	47.71	45.88	MS-156-C(LP)-1
2	Simplified Lock Type Plug	H11379-ND	37.52	34.84	33.50	MS-156-C(LP)-2
2	Plug	H11380-ND	59.78	55.51	53.38	MS-156-C(LP)-5
3	Receptacle without vacuum cap	H11669-ND	1.25	.91	.75	MS-156HF(01)
3	Receptacle without vacuum cap	H11669TR-ND		728.00/2,000		MS-156HF(20)
4	SMA Adapter for Plug Inspection	H11385-ND	109.62	101.79	97.88	MS-156R-HRMJ-1
5	SMA Adapter for Plug Inspection	H11386-ND	92.12	85.54	82.25	MS-156R-NJ-1
6	SMA Adapter Right Angle	H11396-ND	118.58	110.11	105.88	MS-156LP-HRMJ-4
7	SMA Floating Type Adapter	H11397-ND	89.18	82.81	79.63	MS-156-HRMJ-12
8	SMA Simplified Lock Type Adapter	H11398-ND	27.30	25.48	23.66	MS-156-HRMJ-2
9	Receptacle	H11670CT-ND†	.80	.58	.48	MS-156C(20)
9	Receptacle	H11670TR-ND		546.00/2,000		MS-156C(20)

† Cut Tape

Ultra Miniature Snap-On Coaxial Connector PC Card Type II Mountable MMCX Type

RoHS COMPLIANT

Features: Snap-on coupling mechanism makes it easy to engage and disengage. Low profile accommodates PCMCIA type II cards. The MMCX-LR-SMT is only 3.51mm when mounted on the bottom of a type II card. Designed for ultra thin cable such as RG-178B/U (ø1.8), RG-316/U (ø2.59 max.) ø1.48 single shielded cable (one of the smallest available) and CO-6F-FH-SB (ø1.48) made by Hitachi Cable Ltd. Compatible with all industry standard MMCX connectors.
Specifications: • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Rated Frequency: DC ~ 6GHz • Insulation Resistance: 500MΩ minimum • Contact Resistance: 10mΩ maximum (center), 5mΩ maximum (outer)
Material: • Body: Brass with gold plating • Male center contact: Phosphor bronze with gold plating • Female Center Contact: Beryllium bronze with gold plating • Insulator: PTFE • Fixing Ring: Beryllium copper (plug) with nickel plating • Crimp Sleeve: Copper with gold plating • Cover: Brass (plug) with gold plating

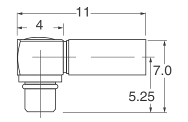

Cable Type	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Right Angle Plug					
RG-316/U Type Coaxial Cable	H11469-ND	10.06	9.31	7.80	MMCX-LP-316/U(40)

SMA Coaxial Connectors HRM(V) Series

RoHS COMPLIANT

Features: Complete compatibility with SMA coaxial connectors, high degree of impedance matching and high durability **Specifications:** • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Frequency Range: DC ~ 18GHz • Insulation Resistance: 5000MΩ minimum @ 500VDC • Withstanding Voltage: No flashover or insulation breakdown @ 1,000 VAC/1 minute • Contact Resistance: 6mΩ maximum (center), 6mΩ maximum (outer) @ 100mA maximum • V.S.W.R.: 1.2 maximum for frequencies of DC ~ 10GHz; 1.3 maximum for frequencies of 10 ~ 18 GHz • Durability: 500 cycles **Material:** • Shell: Stainless steel; passivated • Female center contact: Beryllium copper; gold plated • Center contact: Brass; gold plated • Insulator: PTFE

Fig.	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	H11565-ND	4.84	3.76	3.01	HRM(V)-301S
2	H11566-ND	4.84	3.76	3.01	HRM(V)-302S
3	H11567-ND	5.08	3.94	3.15	HRM(V)-304S
4	H11564-ND	4.84	3.76	3.01	HRM(V)-306S

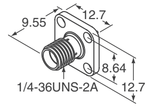

Fig. 1

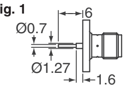

Fig. 2

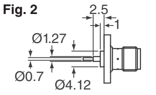

Fig. 3

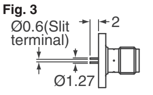

Fig. 4

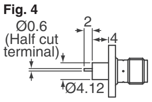

muRata
Innovator in Electronics

Microwave Coaxial Connectors with Switch

SWD and SWF Type — Small Size and Low Profile

Digi-Reel® RoHS COMPLIANT

Features: • These small size, low profile coaxial connectors are very useful for characteristic measurement of cellular phones and microwave units • Easily possible to switch the line connection and disconnection by special probe • Surface mountable and reflow solderable
Specifications: • Operating Temperature Range: -40°C ~ 85°C (MM8430-2600RA1: -40°C ~ 90°C) • Rated Voltage: 250 Vrms • Frequency Range: DC ~ 6GHz • Contact Resistance: MM8430-2600RA1: 25mΩ maximum; MM8430-2610RA1: 50mΩ maximum; MM8130-2600RA2: 70mΩ maximum • Insulation Resistance: 500MΩ • Withstanding Voltage: MM8430-2600RA1: No evidence of breakdown; MM8430-2610RA1 and MM8130-2600RA2: 300VAC

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Murata Part No.
1	SWD Type	490-1062-1-ND†	.74	.57	.46	MM8430-2600RA1
	SWD Type	490-1062-2-ND‡		410.00/1,000		MM8430-2600RA1
	SWD Type	490-4980-1-ND†	.57	.44	.36	MM8430-2610RA1
	SWD Type	490-4980-2-ND‡		316.00/1,000		MM8430-2610RA1
	SWD Series Kit	490-5057-ND	51.80	—	—	M1KMM8430-SWD01
2	SWF Type	490-4981-1-ND†	.57	.44	.36	MM8130-2600RA2
	SWF Type	490-4981-2-ND‡		632.00/2,000		MM8130-2600RA2
	SWF Series Kit	490-5056-ND	59.20	—	—	M1KMM8130-SWF01
3	Manual Test Probe	490-4982-ND	36.50	33.90	32.60	MXHS83QE3000
4	Auto Test Probe	490-4983-ND	91.14	84.63	81.38	MM126036

† Cut Tape ‡ Tape and Reel

Fig. 1

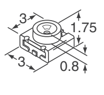

Fig. 2

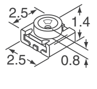

Fig. 3

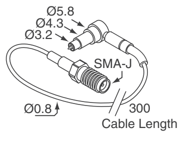

Fig. 4

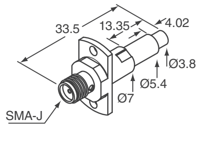

RoHS COMPLIANT ~ ISO 9001 CERTIFIED
KEYSTONE ELECTRONICS CORP

Standardized Phono-Plugs

RoHS COMPLIANT

Fig. 1

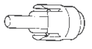

Fig. 2

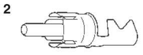

Fig. 3

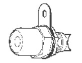

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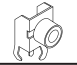

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
1	Conventional Type	561K-ND	.82	7.68	74.05
2	Strain Relief Lug Crimps to Wire Insulation	565K-ND	1.10	10.31	95.50
3	Panel Mount Jack Hex Base Type	576K-ND	1.90	17.92	170.35
4	Snap-Fit 90° PC Phono Jack	901K-ND	1.70	16.01	154.45

Switchcraft®

1/4" (6.35mm) Plugs and Jacks

Plugs

Dimensions for Figures 1-3

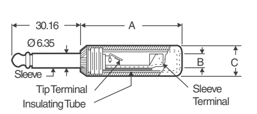

Fig. 1

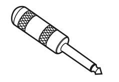

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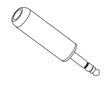

Fig. 3

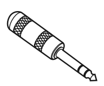

Fig. 4

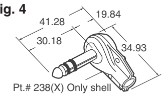

Pt.# 238(X) Only shell is sleeve terminal

Fig.	Description	Mates With	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
"Littel Plug®" Commercial 2-Conductor Phone Plugs										
1	Solder Lug and Cable Clamp with Black Handle	11	42.86	7.54	12.70	SC1072-ND	4.20	31.50	72.19	250
	Solder Lug and Cable Clamp with Shielded Handle	11	42.86	7.54	12.70	SC1075-ND	5.18	38.83	88.92	280
"Littel Plug" Commercial 3-Conductor Phone Plugs										
2	Solder Lug and Cable Clamp with Black Handle	12B	42.86	7.54	12.70	SC1081-ND	6.07	45.55	104.39	267
3	Solder Lug and Cable Clamp with Shielded Handle	12B	42.86	7.54	12.70	SC1084-ND	6.97	52.29	119.89	297
Flat, Right Angle 2-Conductor Phone Plugs										
4	Solder Lug with Shielded Handle	11	—	—	—	SC1068-ND	5.93	44.45	101.92	228
Flat, Right Angle 3-Conductor Phone Plugs										
4	Solder Lug with Shielded Handle	12B	—	—	—	SC1314-ND	7.62	57.17	131.14	238X

Jacks

Fig. 1

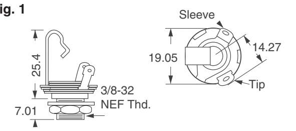

Fig. 2

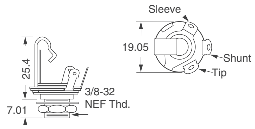

Fig. 3

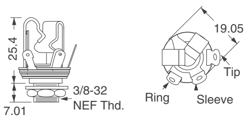

Fig. 4

Solder Lug

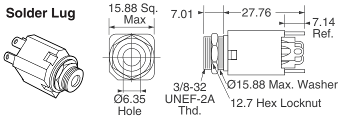

Fig. 5

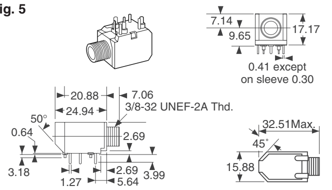

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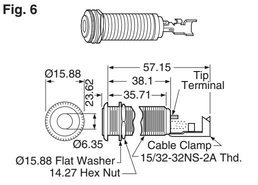

Fig. 7

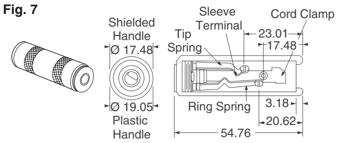

Fig. 8

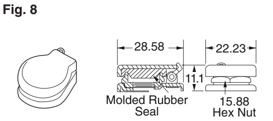

Schematics

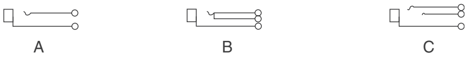

Fig.	Schematic	Description	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
"Littel Jax®" Commercial 2-Conductor Phone Jacks							
1	A	Open Circuit	SC1085-ND	2.52	18.90	43.25	11
2	B	Tip Shunt	SC1089-ND	2.52	18.90	43.25	12A
"Littel Jax" Commercial 3-Conductor Phone Jacks							
3	C	Double Open Circuit	SC1094-ND	2.60	19.50	44.75	12B
"Hi-D Jax" Enclosed 2-Conductor Phone Jacks							
4	A	Insulated Bushing with Solder Lug	SC1315-ND	2.88	21.60	49.50	N111X
	B	Single Closed Circuit with Solder Lug	SC1316-ND	2.52	18.90	43.25	112AX
"Hi-D Jax" Enclosed 3-Conductor Phone Jacks							
4	C	Double Open Circuit with Solder Lug	SC1317-ND	2.56	19.20	44.00	112BX

Fig.	Schematic	Description	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
"Hi-D Jax" Right Angle 2-Conductor Phone Jacks							
5	A	Single Open Circuit with PC Terminal	SC1121-ND	2.39	17.96	41.21	RN111PC
	B	Single Closed Circuit with PC Terminal	SC1122-ND	2.77	20.79	47.70	RN112APC
"Hi-D Jax" Right Angle 3-Conductor Phone Jacks							
5	C	Double Open Circuit with PC Terminal	SC1123-ND	2.97	22.29	51.20	RN112BPC
"TP-Jax" Thick-Panel 2-Conductor Phone Jacks							
6	A	Open Circuit	SC1034-ND	8.44	63.30	145.14	151
"TP-Jax" Thick-Panel 3-Conductor Phone Jacks							
6	C	Open Circuit	SC1035-ND	9.30	69.73	159.87	152b
"Extension-Jax" In-Line 3-Conductor Cable Extension Jacks							
7	—	Screw Terminal with Shielded Handle	SC1042-ND	11.30	84.77	194.32	1230
Jack Covers							
8	—	Black with Hardware	SC1329-ND	10.58	79.38	181.84	515X

Audio Connectors and Couplers

Dimensions in mm

Fig. 1

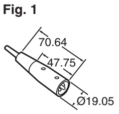

Fig. 2

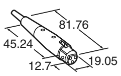

Fig. 3

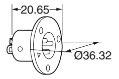

Fig. 4

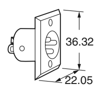

Fig. 5

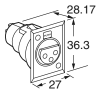

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
1	Plug Male Straight 3 pos. Satin Nickel Finish	SC1003-ND	5.97	4.48	4.11	A3M
	Plug Male Straight 3 pos. Black with Silver Contacts	SC1004-ND†	5.97	4.48	4.11	A3MB
	Plug Male Straight 4 pos. Satin Nickel Finish	SC1014-ND	6.79	5.10	4.68	A4M
	Plug Male Straight 5 pos. Satin Nickel Finish	SC1022-ND	11.89	8.92	8.18	A5M
2	Plug Female Straight 3 pos. Satin Nickel Finish	SC1001-ND	6.63	4.98	4.57	A3F
	Plug Female Straight 3 pos. Black with Silver Contacts	SC239-ND†	7.02	5.27	4.83	A3FBX
	Plug Female Straight 4 pos. Satin Nickel Finish	SC1013-ND	9.23	6.93	6.35	A4F
	Plug Female Straight 5 pos. Satin Nickel Finish	SC1021-ND	14.91	11.19	10.26	A5F
3	Receptacle Male Panel Mount 3 pos. Satin Nickel Finish	SC1008-ND	7.80	5.85	5.37	C3M
4	Receptacle Male Narrow Panel Mount 3 pos. Satin Nickel Finish	SC1010-ND	5.61	4.21	3.86	D3M
	Receptacle Male Narrow Panel Mount 4 pos. Satin Nickel Finish	SC1020-ND	6.59	4.95	4.54	D4M
	Receptacle Male Narrow Panel Mount 5 pos. Satin Nickel Finish	SC1028-ND	11.61	8.71	7.99	D5M
5	Receptacle Female Narrow Panel Mount 3 pos. Satin Nickel Finish	SC1009-ND	7.49	5.62	5.16	D3F
	Receptacle Female Narrow Panel Mount 4 pos. Satin Nickel Finish	SC1019-ND	10.58	7.94	7.28	D4F
	Receptacle Female Narrow Panel Mount 5 pos. Satin Nickel Finish	SC1027-ND	16.92	12.69	11.63	D5F

† "Black Velvet" (Electrically Conductive Chrome Plate)

NEW! Sealed Power Plugs and Jacks

IP rating of IP68/NEMA 250 (6P), for properly mated Switchcraft sealed jack and plug, makes the device perfect for harsh environments.

• Available in multiple pin diameters • Automatic switch over from AC to DC permitted by sleeve shunt spring • 5A current rating (carry), up to 30VDC at 65°C • Color coded plug finger

Applications: • Outdoor power supplies where a weather resistant connection is needed • Medical equipment where the power plug would need to be water proof • Lighting connections where a rugged harsh environment connector would provide the most reliable sealed connection

Fig. 1

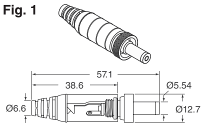

Fig. 2

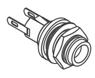

Solder Lugs

Fig. 3

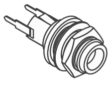

Straight PC

Fig. 4

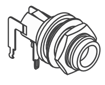

Right-angle PC

Fig.	Description	Center Pin I.D./ Plug size (mm)	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
1	2MM Sealed Power Plug	2.0	SC1384-ND	5.67	4.26	3.89	S761KS12
	2MM Sealed Power Plug	2.0	SC1385-ND	5.67	4.26	3.89	S761KS15
	2MM Sealed Power Plug	2.0	SC1386-ND	5.67	4.26	3.89	S761KS17
	2.1MM Sealed Power Plug	2.1	SC1387-ND	5.67	4.26	3.89	767KS12
	2.1MM Sealed Power Plug	2.1	SC1388-ND	5.67	4.26	3.89	767KS15
	2.1MM Sealed Power Plug	2.1	SC1389-ND	5.67	4.26	3.89	767KS17
	2.5MM Sealed Power Plug	2.5	SC1381-ND	5.67	4.26	3.89	761KS12
	2.5MM Sealed Power Plug	2.5	SC1382-ND	5.67	4.26	3.89	761KS15
	2.5MM Sealed Power Plug	2.5	SC1383-ND	5.67	4.26	3.89	761KS17

Fig.	Description	Center Pin/ Jack Size	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
2	2MM Sealed Power Jack	2.0	SC1392-ND	5.27	3.96	3.62	L722AS
	2.5MM Sealed Power Jack	2.5	SC1390-ND	5.27	3.96	3.62	L712AS
3	2MM Sealed PC Power Jack	2.0	SC1393-ND	5.27	3.96	3.62	PCL722AS
	2.5MM Sealed PC Power Jack	2.5	SC1391-ND	5.27	3.96	3.62	PCL712AS
4	2MM Sealed R/A Power Jack	2.0	SC1395-ND	5.57	4.19	3.82	L722RAS
	2.5MM Sealed R/A Power Jack	2.5	SC1394-ND	5.57	4.19	3.82	L712RAS
—	Power Jack Seal Cap	—	SC1396-ND	1.42	1.07	.98	JCAP

Switchcraft® Phone, Power and Phono Plugs and Jacks

Dimensions in mm

Fig. 1

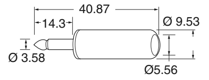

3.58mm Plug

Fig. 2

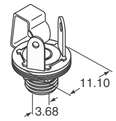

Fig. 3

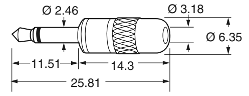

2.46mm Plug

Fig. 4

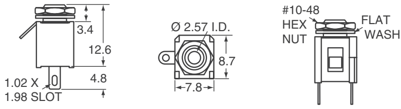

Fig. 5

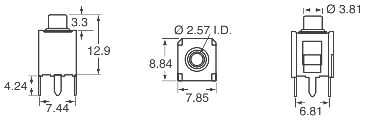

Fig. 6

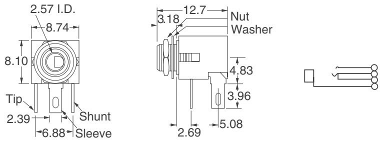

Fig. 7

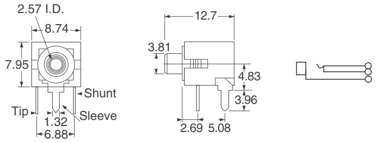

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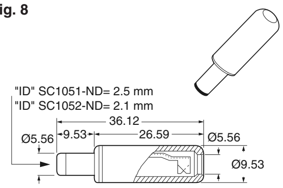

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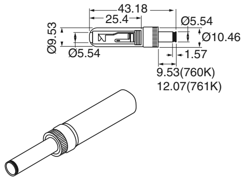

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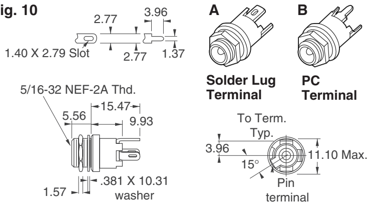

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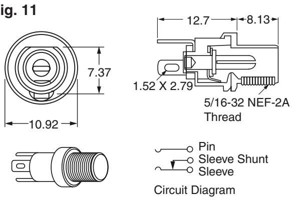

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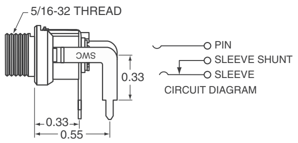

Fig. 13

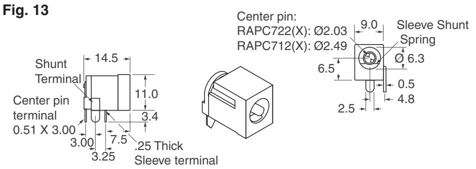

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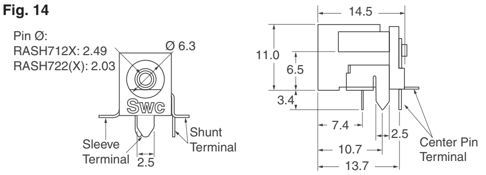

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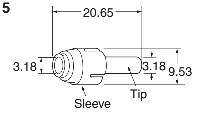

Fig. 16

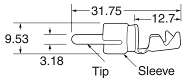

Fig. 17

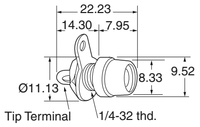

Fig. 18

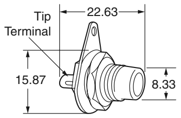

Fig. 19

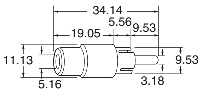

Fig. 20

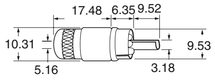

Fig. 21

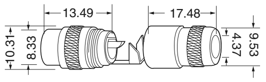

Fig.	Mates With	Center Contact	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
"Tini-Plug®" Miniature 2-Conductor Phone Plugs — RoHS Compliant								
1	41	.141" (3.58mm)	Screw Terminal with Black Handle	SC1053-ND	4.24	3.18	2.92	740
	41	.141" (3.58mm)	Solder Lug and Cable Clamp with Black Handle	SC1055-ND	4.08	3.06	2.81	750
	41	.141" (3.58mm)	Solder Lug and Cable Clamp with Shielded Handle	SC1057-ND	5.57	4.18	3.83	780
"Tini-Jax®" Miniature 2-Conductor Phone Jacks — RoHS Compliant								
2	750	.141" (3.58mm)	Open Circuit	SC238-ND	2.51	1.89	1.73	41
"Micro-Plug®" Subminiature 2-Conductor Phone Plugs — RoHS Compliant								
3	Fig. 6 and 7	.097" (2.46mm)	Solder Lug with Black Handle	SC1326-ND	4.50	3.38	3.10	850X
		.097" (2.46mm)	Solder Lug with Red Handle	SC1327-ND	4.39	3.30	3.02	855X
		.097" (2.46mm)	Solder Lug with Natural Handle	SC1328-ND	4.50	3.38	3.10	880X
"Micro-D-Jax®" Subminiature 2-Conductor Phone Jacks — RoHS Compliant								
4	850	.101" (2.57mm)	Closed Circuit Solder Lug	SC1043-ND	2.81	2.11	1.94	MDSL2A
5	850	.101" (2.57mm)	Closed Circuit PC Terminal	SC1044-ND	2.81	2.11	1.94	MDPC2A
6	850	.101" (2.57mm)	Right Angle Solder Lug	SC1045-ND	3.09	2.32	2.13	MDSL2ARA
7	850	.101" (2.57mm)	Right Angle PC Terminal	SC1046-ND	3.09	2.32	2.13	MDPC2ARA
Miniature 2-Conductor Power Plugs — RoHS Compliant								
8	712A	.1" (2.54mm)	With Black Handle	SC1051-ND	3.44	2.58	2.37	760
	722A	.08" (2.03mm)	With Black Handle	SC1052-ND	3.44	2.58	2.37	S760
9	L712A	.1" (2.54mm)	Locking, Long Bushing with Black Handle	SC1148-ND	5.00	3.75	3.44	761K
	L722A	.08" (2.03mm)	Locking, Long Bushing with Black Handle	SC240-ND	5.00	3.75	3.44	S761K
	712A	.1" (2.54mm)	Locking with Black Handle	SC1149-ND	5.29	3.97	3.64	760K
Miniature 2-Conductor Power Jacks — RoHS Compliant								
10A	760	.1" (2.54mm)	Solder Lug Panel Mount	SC1048-ND	3.36	2.52	2.31	712A
	S760	.08" (2.03mm)	Solder Lug Panel Mount	SC1049-ND	3.36	2.52	2.31	722A
10B	760	.1" (2.54mm)	PC Terminal Panel Mount	SC1050-ND	3.36	2.52	2.31	PC712A
	S760	.08" (2.03mm)	PC Terminal Panel Mount	SC1047-ND	3.36	2.52	2.31	PC722A
11	761K	.1" (2.54mm)	Solder Lug Panel Mount, Long Bushing	SC1150-ND	4.56	3.42	3.14	L712A
	S761K	.08" (2.03mm)	Solder Lug Panel Mount, Long Bushing	SC1151-ND	4.56	3.42	3.14	L722A
12	S760	.08" (2.03mm)	Right Angle PC Terminal, Panel Mount	SC1330-ND	3.68	2.76	2.53	722RA
	S761K	.08" (2.03mm)	Right Angle PC Terminal, Panel Mount, Long Bushing	SC1331-ND	4.92	3.69	3.38	L722RA
13	760	.1" (2.54mm)	Right Angle PC Mount	SC237-ND	1.44	1.08	.99	RAPC712X
	S760	.08" (2.03mm)	Right Angle PC Mount	SC1313-ND	1.44	1.08	.99	RAPC722X
14	760	.1" (2.54mm)	Right Angle Hybrid Mount	SC1324-ND	1.56	1.17	1.07	RASH712X
	S760	.08" (2.03mm)	Right Angle Hybrid Mount	SC1325-ND	1.56	1.17	1.07	RASH722X

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	100	Switchcraft Part No.
Phono Jacks and Plugs							
15	Phono Plug 2 Conductor	SC1312-ND◆	.66	.50	.45	.42	3501mX
16	Phono Plug 2 Conductor with Cable Clamp	SC1318-ND◆	1.51	1.14	1.05	.95	3501mcX
17	Phono Jack 2 Conductor Front Panel Mount with Hardware	SC1319-ND◆	1.91	1.44	1.32	1.21	3501FPX
—	Insulated Washer Extruded for SC1319-ND	SC1145-ND◆	.50	.38	.35	.32	S1564
18	Phono Jack 2 Conductor Rear Panel Mount with Hardware	SC1320-ND◆	2.43	1.83	1.68	1.53	3501FRX
—	Insulated Washer Flat for SC1320-ND	SC1146-ND◆	.24	.19	.18	.16	S1028
—	Insulated Washer Extruded for SC1320-ND	SC1147-ND◆	.50	.38	.35	.32	S1029
19	Phono Plug 2 Conductor, Red Cable Clamp with Hardware	SC1321-ND◆	2.03	1.53	1.40	1.28	35581X
	Phono Plug 2 Conductor, Black Cable Clamp with Hardware	SC1136-ND	3.84	2.89	2.66	2.41	3558-2
	Phono Plug 2 Conductor, Black Cable Clamp with Hardware	SC1322-ND◆	2.03	1.53	1.40	1.28	35582X
20	Phono Plug 2 Conductor, Shielded with Cable Clamp	SC1138-ND◆	2.59	1.95	1.79	1.63	3502
21	Phono Extension Jack 2 Conductor, Shielded with Heavy Duty Clamp	SC1323-ND◆	3.80	2.85	2.62	2.38	3503X

◆ ***RoHS Compliant***

Audio and Power Connectors

Fig. 1 – Right Angle Panel Mount Jack, Mono *NEW!*

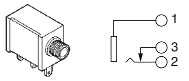

Fig. 2 – PCB Panel Mount Jack, Mono

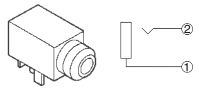

Fig. 3 – Audio Jack, Mono

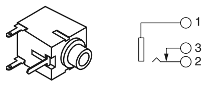

Fig. 4 – Audio Jack, Mono

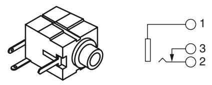

Fig. 5 – Audio Jack, Mono

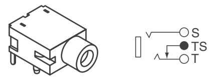

Fig. 6 – SMT Audio Jack, Mono

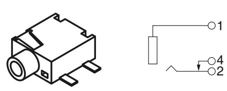

Fig. 7 – SMT Audio Jack, Mono

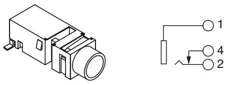

Fig. 8 – Right Angle, SMT Audio Jack

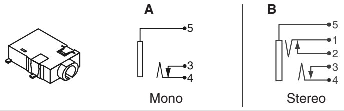

Fig. 9 – Audio Jack, Mono

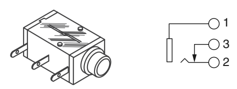

Fig. 10 – SMT Audio Jack, Mono

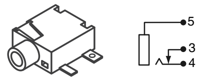

Fig. 11 – SMT Audio Jack, Mono

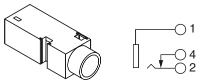

Fig. 12 – Right Angle Panel Mount Jack, Mono

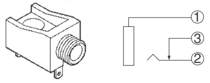

Fig. 13 – Audio Jack, Mono

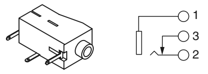

Fig. 14 – Audio Jack, Mono with Isolated Ground

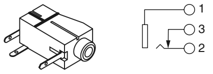

Fig. 15 – Male Mono Plug with Strain Relief

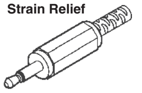

Fig. 16 – Closed Frame Power Jack

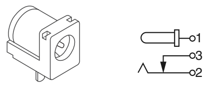

Fig. 17 – SMT Closed Frame Power Jack

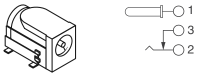

Fig. 18 – Open Frame Power Jack

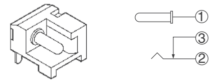

Fig. 19 – Panel Mount Jack with Hardware

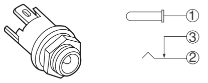

Fig. 20 – Vertical Power Jack with Solder Eyelets

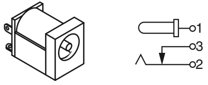

Fig. 21 – Vertical SMT Power Jack

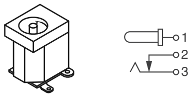

Fig. 22 – Vertical SMT Power Jack

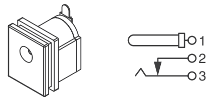

Fig. 23 – Closed Frame Right Angle Power Jack

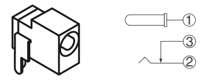

Fig. 24 – Low Profile DC Power Jack

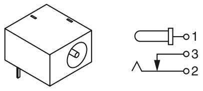

Fig. 25 – SMT Low Profile DC Power Jack

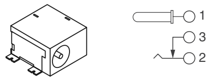

Fig. 26 – SMT Power Jack

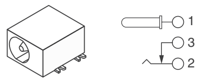

Fig. 27 – Closed Frame DC Power Jack

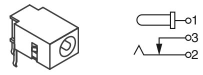

Fig. 28 – Power Jack, PCB with Kinked Pins

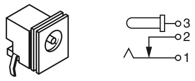

Fig. 29 – SMT Power Jack

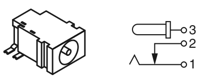

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each			CUI Part No.
				1	10	100	
1	MP3-2501	2.5	CP1-2502-ND▲†◆ ***NEW!***	.75	.65	.50	MJ1-2502
2	MP3-2501	2.5	CP1-2503AM-ND★◆	.39	.34	.26	MJ1-2503A
3	MP3-2501	2.5	CP-2506-ND▲†	.65	.57	.44	MJ-2506
	MP3-2501	2.5	CP-2506N-ND★◆	.47	.41	.32	MJ-2506N
4	MP3-2501	2.5	CP-2508-ND▲†◆	.62	.54	.42	MJ-2508
	MP3-2501	2.5	CP-2508N-ND★◆	.44	.38	.30	MJ-2508N
5	MP3-2501	2.5	CP-M2509N-ND◆	.38	.34	.26	MJ-2509N
6	MP3-2501	2.5	CP1-2510MJCT-ND☆◆	.68	.59	.45	MJ1-2510-SMT
	MP3-2501	2.5	CP1-2510MJTR-ND✿◆	337.50/1,000			MJ1-2510-SMT
7	MP3-2501	2.5	CP-2523MJCT-ND☆◆	.86	.75	.58	MJ-2523-SMT
	MP3-2501	2.5	CP-2523MJTR-ND✿◆	429.00/1,000			MJ-2523-SMT
8A	MP3-2501	2.5	CP-2533MJTR-ND✿	495.00/1,000			MJ-2533-SMT
	MP3-2501	2.5	CP1-2533MJCT-ND☆	.69	.61	.47	MJ1-2533-SMT
	MP3-2501	2.5	CP1-2533MJTR-ND✿	346.50/1,000			MJ1-2533-SMT
8B	SP-2501	2.5	CP1-2535SJCT-ND☆◆	.75	.65	.50	SJ1-2535-SMT
	SP-2501	2.5	CP1-2535SJTR-ND✿◆	375.00/1,000			SJ1-2535-SMT
9	MP3-3501	3.5	CP-3502MJ-ND▲◊◆	.89	.78	.60	MJ-3502
	MP3-3501	3.5	CP-3502N-ND★◊◆	.83	.72	.55	MJ-3502N
10	MP3-3501	3.5	CP1-3510MJCT-ND☆◆	.63	.55	.42	MJ1-3510-SMT
	MP3-3501	3.5	CP1-3510MJTR-ND✿◆	252.00/800			MJ1-3510-SMT
11	MP3-3501	3.5	CP-3523MJCT-ND☆◆	.87	.76	.58	MJ-3523-SMT
	MP3-3501	3.5	CP-3523MJTR-ND✿◆	433.50/1,000			MJ-3523-SMT
12	MP3-3501	3.5	CP-3536-ND▲Δ◆	.58	.51	.39	MJ-3536
13	MP3-3501	3.5	CP-3536N-ND★◆	.40	.35	.27	MJ-3536N
14	MP3-3501	3.5	CP-3536NG-ND★◆	.42	.37	.28	MJ-3536NG
15	—	2.5	CP3-1004-ND◆	.76	.66	.51	MP3-2501
	—	3.5	CP3-1005-ND◆	.76	.66	.51	MP3-3501
16	PP3-002A	2.1	CP-002A-ND◆	.38	.33	.26	PJ-002A
	PP3-002B	2.5	CP-002B-ND◆	.38	.33	.26	PJ-002B
	PP3-002A	2.0	CP-002AH-ND◆	.42	.37	.28	PJ-002AH
	PP3-002B	2.5	CP-002BH-ND◆	.42	.37	.28	PJ-002BH
17	PP3-002A	2.0	CP-002AHPJCT-ND☆◆	.90	.78	.60	PJ-002AH-SMT
	PP3-002A	2.0	CP-002AHPJTR-ND✿◆	157.50/350			PJ-002AH-SMT
	PP3-002B	2.5	CP-002BHPJCT-ND☆◆	.90	.78	.60	PJ-002BH-SMT
	PP3-002B	2.5	CP-002BHPJTR-ND✿◆	157.50/350			PJ-002BH-SMT
	PP3-002A	2.1	CP-002APJCT-ND☆◆	.81	.70	.54	PJ-002A-SMT
	PP3-002A	2.1	CP-002APJTR-ND✿◆	141.23/350			PJ-002A-SMT
	PP3-002B	2.5	CP-002BPJCT-ND☆◆	.81	.70	.54	PJ-002B-SMT
	PP3-002B	2.5	CP-002BPJTR-ND✿◆	141.23/350			PJ-002B-SMT
18	PP3-002A	2.1	CP-003A-ND◆	.39	.34	.26	PJ-003A
	PP3-002B	2.5	CP-003B-ND◆	.39	.34	.26	PJ-003B
19	PP3-002A	2.0	CP-5-ND▲§◆	1.95	1.69	1.30	PJ-005A
	PP3-002B	2.5	CP-6-ND▲§◆	1.95	1.69	1.30	PJ-005B
20	PP3-002A	2.1	CP-006A-ND◆	.69	.58	.46	PJ-006A
	PP3-002B	2.5	CP-006B-ND◆	.68	.59	.46	PJ-006B
	PP3-002A	2.0	CP-060A-ND◆	.74	.65	.50	PJ-060A
	PP3-002B	2.5	CP-060B-ND◆	.74	.65	.50	PJ-060B
21	PP3-002A	2.1	CP-006APJCT-ND☆◆	.93	.81	.62	PJ-006A-SMT
	PP3-002A	2.1	CP-006APJTR-ND✿◆	116.25/250			PJ-006A-SMT
	PP3-002B	2.5	CP-006BPJCT-ND☆◆	.93	.81	.62	PJ-006B-SMT
	PP3-002B	2.5	CP-006BPJTR-ND✿◆	116.25/250			PJ-006B-SMT
22	PP3-002A	2.1	CP-015APJCT-ND☆◆	.69	.60	.46	PJ-015A-SMT
	PP3-002A	2.1	CP-015APJTR-ND✿◆	82.20/200			PJ-015A-SMT
	PP3-002B	2.5	CP-015BPJCT-ND☆◆	.69	.60	.46	PJ-015B-SMT
	PP3-002B	2.5	CP-015BPJTR-ND✿◆	61.65/150			PJ-015B-SMT
23	PP3-002D	1.3	CP-2519-ND◆	.45	.39	.30	PJ-007
24	PP3-002C	1.0	CP-014C-ND◆	.42	.37	.28	PJ-014C
	PP3-002D	1.3	CP-014D-ND◆	.42	.37	.28	PJ-014D
25	PP3-002C	1.0	CP-014CHPJCT-ND☆◆	.90	.78	.60	PJ-014CH-SMT
	PP3-002C	1.0	CP-014CHPJTR-ND✿◆	360.00/800			PJ-014CH-SMT
	PP3-002D	1.3	CP-014DHPJCT-ND☆◆	.90	.78	.60	PJ-014DH-SMT
	PP3-002D	1.3	CP-014DHPJTR-ND✿◆	360.00/800			PJ-014DH-SMT
	PP3-002C	1.0	CP-014CPJCT-ND☆◆	.83	.72	.56	PJ-014C-SMT
	PP3-002C	1.0	CP-014CPJTR-ND✿◆	332.40/800			PJ-014C-SMT
	PP3-002D	1.3	CP-014DPJCT-ND☆◆	.83	.72	.56	PJ-014D-SMT
	PP3-002D	1.3	CP-014DPJTR-ND✿◆	332.40/800			PJ-014D-SMT
26	PP-013	1.65	CP-018HPJCT-ND☆◆	.81	.79	.71	PJ-018H-SMT
	PP-013	1.65	CP-018HPJTR-ND✿◆	324.00/800			PJ-018H-SMT
27	PP-013	1.65	CP-016-ND◆	.83	.73	.56	PJ-016
28	PP-014	1.65	CP1-021-ND◆	.50	.44	.34	PJ1-021
29	PP-014	1.65	CP1-021PJCT-ND☆◆	.65	.57	.44	PJ1-021-SMT
	PP-014	1.65	CP1-021PJTR-ND✿◆	177.00/500			PJ1-021-SMT
30	PP-012	0.65	CP1-022-ND◆	.60	.52	.40	PJ1-022
31	PP-012	0.65	CP1-022PJCT-ND☆◆	.65	.56	.43	PJ1-022-SMT
	PP-012	0.65	CP1-022PJTR-ND✿◆	345.00/1,000			PJ1-022-SMT
	PP-012	0.65	CP-031HPJCT-ND☆◆	.72	.70	.63	PJ-031H-SMT
	PP-012	0.65	CP-031HPJTR-ND✿◆	360.00/1,000			PJ-031H-SMT
32	PP-012	0.65	CP1-023-ND◊◆	.63	.55	.42	PJ1-023
33	PP-012	0.65	CP1-023PJCT-ND◊☆◆	.67	.59	.45	PJ1-023-SMT
	PP-012	0.65	CP1-023PJTR-ND◊✿◆	363.00/1,000			PJ1-023-SMT
34	PP3-002C	1.0	CP-030CPJCT-ND☆◆	.84	.82	.73	PJ-030C-SMT
	PP3-002C	1.0	CP-030CPJTR-ND✿◆	252.00/600			PJ-030C-SMT
	PP3-002D	1.3	CP-030DPJCT-ND☆◆	.84	.82	.73	PJ-030D-SMT
	PP3-002D	1.3	CP-030DPJTR-ND✿◆	252.00/600			PJ-030D-SMT
35A	PP-017	0.8	CP-028PJCT-ND☆◆	.72	.70	.63	PJ-028-SMT
	PP-017	0.8	CP-028PJTR-ND✿◆	360.00/1,000			PJ-028-SMT
35B	CA-2221	0.8	CP-029PJCT-ND☆◆	.78	.76	.68	PJ-029-SMT
	CA-2221	0.8	CP-029PJTR-ND✿◆	390.00/1,000			PJ-029-SMT
36	PP-012	0.65	CP-032HPJCT-ND☆◆	.75	.73	.65	PJ-032H-SMT
	PP-012	0.65	CP-032HPJTR-ND✿◆	375.00/1,000			PJ-032H-SMT
37	PP-012	0.65	CP-034PJCT-ND☆◆	.84	.82	.73	PJ-034-SMT
	PP-012	0.65	CP-034PJTR-ND✿◆	420.00/1,000			PJ-034-SMT
38	PP-018	1.0	CP-035PJCT-ND☆◆	.78	.76	.68	PJ-035-SMT
	PP-018	1.0	CP-035PJTR-ND✿◆	331.50/850			PJ-035-SMT
39	PP3-002A	2.0	CP-036APJCT-ND☆◆	.93	.90	.81	PJ-036A-SMT
	PP3-002A	2.0	CP-036APJTR-ND✿◆	93.00/200			PJ-036A-SMT
	PP3-002A	2.0	CP-036AHPJCT-ND☆◆	.99	.96	.86	PJ-036AH-SMT
	PP3-002A	2.0	CP-036AHPJTR-ND✿◆	99.00/200			PJ-036AH-SMT
	PP3-002B	2.5	CP-036BPJCT-ND☆◆	.93	.90	.81	PJ-036B-SMT
	PP3-002B	2.5	CP-036BPJTR-ND✿◆	93.00/200			PJ-036B-SMT
	PP3-002B	2.5	CP-036BHPJCT-ND☆◆	.99	.96	.86	PJ-036BH-SMT
	PP3-002B	2.5	CP-036BHPJTR-ND✿◆	99.00/200			PJ-036BH-SMT
	PP3-002A	2.0	CP-037APJCT-ND☆◆	.93	.90	.81	PJ-037A-SMT

▲ Threaded with nut ★ Non-threaded ▼ Shielded version ☆ Cut Tape ✿ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 30 – DC Power Jack

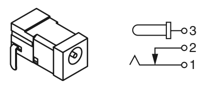

Fig. 31 – SMT Power Jack

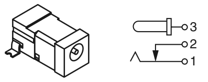

Fig. 32 – DC Power Jack with Shield

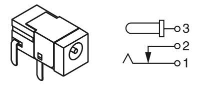

Fig. 33 – SMT Power Jack with Shield

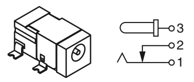

Fig. 34 – Open Frame Power Jack

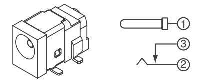

Fig. 35 – SMT Power Jack

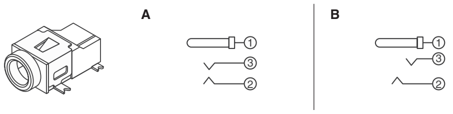

Fig. 36 – SMT Power Jack with Shield

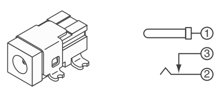

Fig. 37 – SMT Power Jack

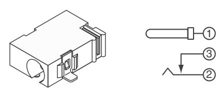

Fig. 38 – SMT Power Jack

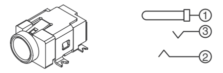

Fig. 39 – SMT Power Jack

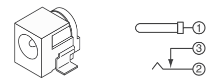

Fig. 40 – SMT Power Jack

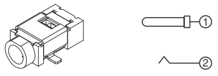

Fig. 41 – SMT Power Jack

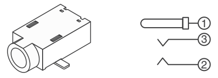

Fig. 42 – SMT Power Jack

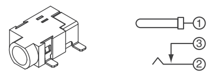

Fig. 43 – SMT Power Jack

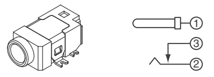

Fig. 44 – DC Power Jack

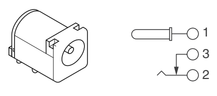

Fig. 45 – Power Socket

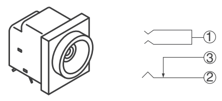

Fig. 46 – Female Plug, 5.5mm Outside

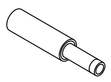

Fig. 47 – Power Receptacle

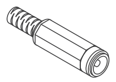

Fig. 48 – Female Plug, 3.5mm Outside

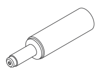

Fig. 49 – Female Plug, 3.5mm Outside

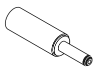

Fig. 50 – Female Plug

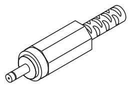

Fig. 51 – Power Plug

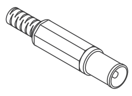

Fig. 52 – DC Power Plug

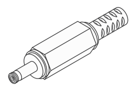

Fig. 53 – DC Power Plug

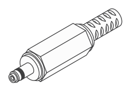

Fig. 54 – Combo Jack ***NEW!***

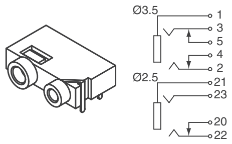

Fig. 55 – Audio Jack, Stereo

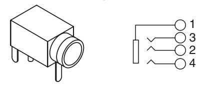

Fig. 56 – SMT Stereo Jack

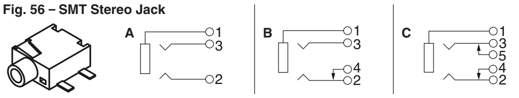

Fig. 57 – SMT Audio Jack, Stereo

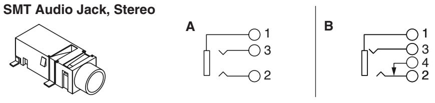

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each			CUI Part No.
				1	10	100	
39	PP3-002A	2.0	CP-037APJTR-ND✿◆	93.00/200			PJ-037A-SMT
	PP3-002A	2.0	CP-037AHPJCT-ND☆◆	.99	.96	.86	PJ-037AH-SMT
	PP3-002A	2.0	CP-037AHPJTR-ND✿◆	99.00/200			PJ-037AH-SMT
	PP3-002B	2.5	CP-037BPJCT-ND☆◆	.93	.90	.81	PJ-037B-SMT
	PP3-002B	2.5	CP-037BPJTR-ND✿◆	93.00/200			PJ-037B-SMT
	PP3-002B	2.5	CP-037BHPJCT-ND☆◆	.99	.96	.86	PJ-037BH-SMT
	PP3-002B	2.5	CP-037BHPJTR-ND✿◆	99.00/200			PJ-037BH-SMT
40	PP-012	0.65	CP-038PJCT-ND☆◆	.90	.87	.78	PJ-038-SMT
	PP-012	0.65	CP-038PJTR-ND✿◆	540.00/1,200			PJ-038-SMT
	PP-012	0.65	CP-039PJCT-ND☆◆	.90	.87	.78	PJ-039-SMT
	PP-012	0.65	CP-039PJTR-ND✿◆	540.00/1,200			PJ-039-SMT
41	PP-012	0.65	CP-040PJCT-ND☆◆	.84	.82	.73	PJ-040-SMT
	PP-012	0.65	CP-040PJTR-ND✿◆	504.00/1,200			PJ-040-SMT
	PP-012	0.65	CP-041PJCT-ND☆◆	.84	.82	.73	PJ-041-SMT
	PP-012	0.65	CP-041PJTR-ND✿◆	504.00/1,200			PJ-041-SMT
42	PP-012	0.65	CP-042PJCT-ND☆◆	.87	.85	.76	PJ-042-SMT
	PP-012	0.65	CP-042PJTR-ND✿◆	652.50/1,500			PJ-042-SMT
43	PP-019	1.0	CP-043PJCT-ND☆◆	.87	.85	.76	PJ-043-SMT
	PP-019	1.0	CP-043PJTR-ND✿◆	391.50/900			PJ-043-SMT
44	PP3-002A	2.1	CP-102A-ND◆	.38	.33	.26	PJ-102A
	PP3-002B	2.5	CP-102B-ND◆	.38	.33	.26	PJ-102B
	PP3-002A	2.1	CP-102AH-ND◆	.42	.37	.28	PJ-102AH
	PP3-002B	2.5	CP-102BH-ND◆	.42	.37	.28	PJ-102BH
	PP3-002A	2.1	CP-202A-ND◆	.38	.33	.26	PJ-202A
	PP3-002B	2.5	CP-202B-ND◆	.38	.33	.26	PJ-202B
	PP3-002A	2.1	CP-202AH-ND◆	.42	.37	.28	PJ-202AH
	PP3-002B	2.5	CP-202BH-ND◆	.42	.37	.28	PJ-202BH
45	PP-015	1.1	CP-019-ND◆	.66	.58	.44	PJ-019
	PP-016	1.45	CP-025-ND◆	.66	.58	.44	PJ-025
46	—	2.1	CP3-1000-ND◆	.93	.81	.62	PP3-002A
	—	2.5	CP3-1001-ND◆	.93	.81	.62	PP3-002B
	PJ-063AH	2.1	CP3-002AH-ND◆ ***NEW!***	1.44	1.25	.96	PP3-002AH
	PJ-063BH	2.5	CP3-002BH-ND◆ ***NEW!***	1.44	1.25	.96	PP3-002BH
47	—	2.1	CP-024A-ND◆	2.28	1.98	1.52	PR-002A
	—	2.5	CP-024B-ND◆	2.28	1.98	1.52	PR-002B
48	—	1.0	CP3-1002-ND◆	.93	.81	.62	PP3-002C
49	—	1.3	CP3-1003-ND◆	.93	.81	.62	PP3-002D
50	—	0.7x2.35	CP-012-ND◆	.90	.78	.60	PP-012
	—	1.7x4.0	CP-013-ND◆	.84	.73	.56	PP-013
	—	1.7x4.75	CP-014-ND◆	.84	.73	.56	PP-014
51	—	1.0x5.5	CP-015-ND◆	1.20	1.04	.80	PP-015
	—	1.4	CP-026-ND◆	1.08	.94	.72	PP-016
52	—	0.9	CP-017-ND◆	1.08	.94	.72	PP-017
	—	1.1	CP-119-ND◆	1.08	.94	.72	PP-019
53	PJ-035-SMT	1.1	CP-018-ND◆	1.20	1.04	.80	PP-018
54	SP-3501, SP-2501	3.5/2.5	CP1-320154-ND◆ ***NEW!***	.82	.71	.55	SJD1-3201-54
55	SP-2501	2.5	CP1-2503A-ND★◆	.40	.35	.27	SJ1-2503A
56A	SP-2501	2.5	CP1-2513SJCT-ND☆◆	.68	.59	.45	SJ1-2513-SMT
	SP-2501	2.5	CP1-2513SJTR-ND✿◆	337.50/1,000			SJ1-2513-SMT
56B	SP-2501	2.5	CP-2514TR-ND✿	1050.00/1,000			SJ-2513-SMT
	SP-2501	2.5	CP1-2514SJCT-ND☆◆	.69	.60	.46	SJ1-2514-SMT
	SP-2501	2.5	CP1-2514SJTR-ND✿◆	345.00/1,000			SJ1-2514-SMT
56C	SP-2501	2.5	CP1-2515SJCT-ND☆◆	.71	.62	.47	SJ1-2515-SMT
	SP-2501	2.5	CP1-2515SJTR-ND✿◆	352.50/1,000			SJ1-2515-SMT
57A	SP-2501	2.5	CP-2523SJCT-ND☆◆	.86	.75	.58	SJ-2523-SMT
	SP-2501	2.5	CP-2523SJTR-ND✿◆	429.00/1,000			SJ-2523-SMT
57B	SP-2501	2.5	CP-2524SJCT-ND☆◆	.90	.78	.60	SJ-2524-SMT
	SP-2501	2.5	CP-2524SJTR-ND✿◆	448.50/1,000			SJ-2524-SMT
58	SP-2501	2.5	CP1-2533SJCT-ND☆◆	.69	.61	.47	SJ1-2533-SMT
	SP-2501	2.5	CP1-2533SJTR-ND✿◆	346.50/1,000			SJ1-2533-SMT
59	SP-2501	2.5	CP1-2534SJCT-ND☆◆	.74	.64	.49	SJ1-2534-SMT
	SP-2501	2.5	CP1-2534SJTR-ND✿◆	367.50/1,000			SJ1-2534-SMT
60A	SP-3501	3.5	CP-3504-ND★◆	2.06	1.79	1.38	SJ-3504
60B	SP-3501	3.5	CP-3505-ND★◆	2.10	1.83	1.41	SJ-3505
61A	SP-3501	3.5	CP1-3513-ND▲Δ◆	.74	.64	.50	SJ1-3513
	SP-3501	3.5	CP1-3513N-ND★◆	.53	.46	.35	SJ1-3513N
61B	SP-3501	3.5	CP1-3514-ND▲Δ◆	.75	.65	.50	SJ1-3514
	SP-3501	3.5	CP1-3514N-ND★◆	.54	.47	.36	SJ1-3514N
61C	SP-3501	3.5	CP1-3515-ND▲Δ◆	.76	.66	.51	SJ1-3515
	SP-3501	3.5	CP1-3515N-ND★◆	.55	.48	.37	SJ1-3515N
62A	SP-3501	3.5	CP1-3513SJCT-ND☆◆	.63	.55	.42	SJ1-3513-SMT
	SP-3501	3.5	CP1-3513SJTR-ND✿◆	252.00/800			SJ1-3513-SMT
62B	SP-3501	3.5	CP1-3514SJCT-ND☆◆	.65	.56	.43	SJ1-3514-SMT
	SP-3501	3.5	CP1-3514SJTR-ND✿◆	258.00/800			SJ1-3514-SMT
62C	SP-3501	3.5	CP1-3515SJCT-ND☆◆	.66	.58	.44	SJ1-3515-SMT
	SP-3501	3.5	CP1-3515SJTR-ND✿◆	264.00/800			SJ1-3515-SMT
	SP-3501	3.5	CP1-3515SJBECT-ND☆◆ ***NEW!***	.91	.88	.79	SJ1-3515-SMT-BE
	SP-3501	3.5	CP1-3515SJBETR-ND✿◆ ***NEW!***	363.60/800			SJ1-3515-SMT-BE
	SP-3501	3.5	CP1-3515SJGRCT-ND☆◆ ***NEW!***	.91	.88	.79	SJ1-3515-SMT-GR
	SP-3501	3.5	CP1-3515SJGRTR-ND✿◆ ***NEW!***	363.60/800			SJ1-3515-SMT-GR
	SP-3501	3.5	CP1-3515SJPICT-ND☆◆ ***NEW!***	.91	.88	.79	SJ1-3515-SMT-PI
	SP-3501	3.5	CP1-3515SJPITR-ND✿◆ ***NEW!***	363.60/800			SJ1-3515-SMT-PI
63A	SP-2501	2.5	CP-S2504N-ND◆	.45	.40	.31	SJ-2504N
63B	SP-2501	2.5	CP-S2509N-ND◆	.43	.37	.29	SJ-2509N
64A	SP-3501	3.5	CP1-3523N-ND★◆	.44	.38	.30	SJ1-3523N
	SP-3501	3.5	CP1-3523NG-ND★◆	.44	.38	.30	SJ1-3523NG
64B	SP-3501	3.5	CP1-3524NG-ND★◆	.44	.39	.30	SJ1-3524NG
	SP-3501	3.5	CP1-3524N-ND★◆	.44	.39	.30	SJ1-3524N
64C	SP-3501	3.5	CP1-3525N-ND◆	.45	.39	.30	SJ1-3525N
	SP-3501	3.5	CP1-3525NG-ND◆	.45	.39	.30	SJ1-3525NG
	SP-3501	3.5	CP1-3525NG-GR-ND◆ ***NEW!***	.61	.53	.41	SJ1-3525NG-GR
	SP-3501	3.5	CP1-3525NG-PI-ND◆ ***NEW!***	.61	.53	.41	SJ1-3525NG-PI
65A	SP-3501	3.5	CP-3523SJCT-ND☆◆	.87	.76	.58	SJ-3523-SMT
	SP-3501	3.5	CP-3523SJTR-ND✿◆	433.50/1,000			SJ-3523-SMT

▲ Threaded with nut ★ Non-threaded ▼ Shielded version ☆ Cut Tape ✿ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 58 – SMT Audio Jack, Stereo

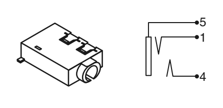

Fig. 59 – SMT Audio Jack, Stereo

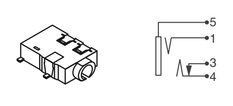

Fig. 60 – Right Angle PCB Mount Jack, Stereo

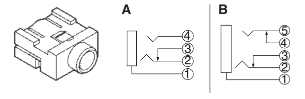

Fig. 61 – Audio Jack, Stereo

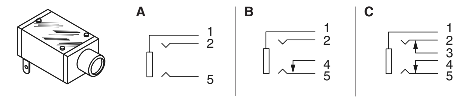

Fig. 62 – SMT Audio Jack, Stereo

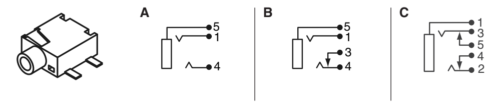

Fig. 63 – Audio Jack, Stereo

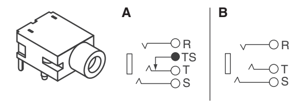

Fig. 64 – Audio Jack, Stereo

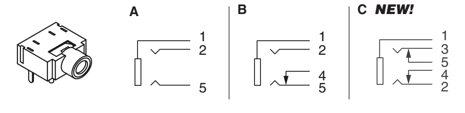

Fig. 65 – SMT Audio Jack, Stereo

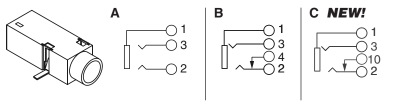

Fig. 66 – Audio Jack, Stereo

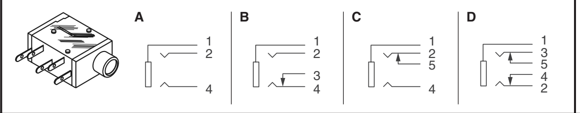

Fig. 67 – Right Angle Stereo Jack *NEW!*

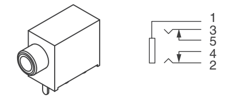

Fig. 68 – Stereo Jack

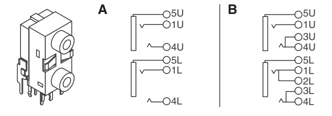

Fig. 69 – Stereo Jack

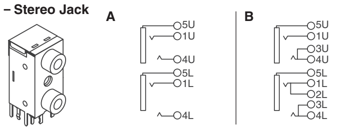

Fig. 70 – Audio Jack, Stereo

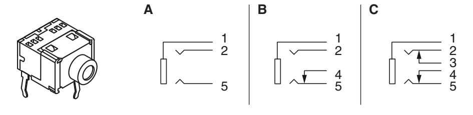

Fig. 71 – Audio Jack, Stereo

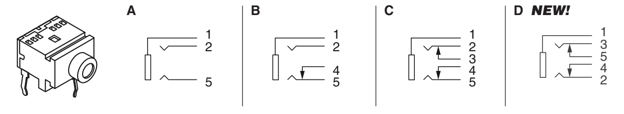

Fig. 72 – Audio Jack

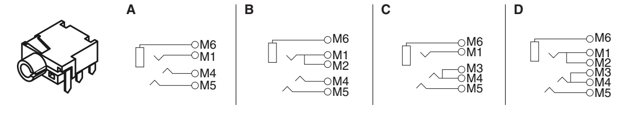

Fig. 73 – SMT Audio Jack

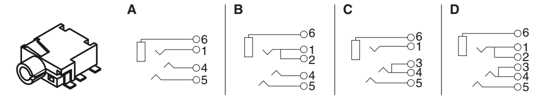

Fig. 74 – SMT Audio Jack

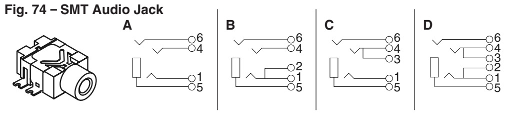

Fig. 75 – Panel Mount Audio Jack

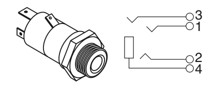

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
65B	SP-3501	3.5	CP-3524SJCT-ND☆◆	.90	.78	.60	SJ-3524-SMT
	SP-3501	3.5	CP-3524SJTR-ND✿◆	448.50/1,000			SJ-3524-SMT
65C	SP-3501	3.5	CP-3524SJBECT-ND☆◆ ***NEW!***	1.13	1.10	.99	SJ-3524-SMT-BE
	SP-3501	3.5	CP-3524SJBETR-ND✿◆ ***NEW!***	567.00/1,000			SJ-3524-SMT-BE
	SP-3501	3.5	CP-3524SJGRCT-ND☆◆ ***NEW!***	1.13	1.10	.99	SJ-3524-SMT-GR
	SP-3501	3.5	CP-3524SJGRTR-ND✿◆ ***NEW!***	567.00/1,000			SJ-3524-SMT-GR
	SP-3501	3.5	CP-3524SJPICT-ND☆◆ ***NEW!***	1.13	1.10	.99	SJ-3524-SMT-PI
	SP-3501	3.5	CP-3524SJPITR-ND✿◆ ***NEW!***	567.00/1,000			SJ-3524-SMT-PI
66A	SP-3501	3.5	CP1-3533-NDΔ◆	.79	.69	.53	SJ1-3533
	SP-3501	3.5	CP1-3533N-ND◆	.60	.53	.41	SJ1-3533N
	SP-3501	3.5	CP1-3533NG-ND★◆	.59	.52	.40	SJ1-3533NG
	SP-3501	3.5	CP1-3533NS-ND★▼◆	.77	.67	.51	SJ1-3533NS
66B	SP-3501	3.5	CP1-3534N-ND★◆	.62	.54	.41	SJ1-3534N
	SP-3501	3.5	CP1-3534NG-ND★◆	.61	.53	.41	SJ1-3534NG
66C	SP-3501	3.5	CP-3534NS-ND★▼	1.12	.97	.75	SJ-3534NS
	SP-3501	3.5	CP1-3534NS-ND★▼◆	.78	.68	.52	SJ1-3534NS
66D	SP-3501	3.5	CP1-3535-ND▲Δ◆	.80	.70	.54	SJ1-3535
	SP-3501	3.5	CP1-3535N-ND★◆	.63	.55	.42	SJ1-3535N
	SP-3501	3.5	CP1-3535NG-ND★◆	.62	.54	.42	SJ1-3535NG
	SP-3501	3.5	CP1-3535NS-ND★◆	.80	.69	.53	SJ1-3535NS
67	SP-3501	3.5	CP1-3535NG-BE-ND◆ ***NEW!***	.78	.68	.52	SJ1-3535NG-BE
	SP-3501	3.5	CP1-3535NG-GR-ND◆ ***NEW!***	.78	.68	.52	SJ1-3535NG-GR
	SP-3501	3.5	CP1-3535NG-PI-ND◆ ***NEW!***	.78	.68	.52	SJ1-3535NG-PI
68A	SP-3501	3.5	CP-351133-ND◆	1.67	1.46	1.12	SJD-3511-33
68B	SP-3501	3.5	CP-351145-ND◆	1.58	1.37	1.05	SJD-3511-45
69A	SP-3501	3.5	CP-351033-ND◆	1.43	1.24	.96	SJD-3510-33
	SP-3501	3.5	CP-351233-ND◆	1.67	1.46	1.12	SJD-3512-33
69B	SP-3501	3.5	CP-351045-ND◆	1.49	1.29	1.00	SJD-3510-45
	SP-3501	3.5	CP-351245-ND◆	1.82	1.58	1.22	SJD-3512-45
70A	SP-3501	3.5	CP1-3543-ND▲Δ◆	1.00	.87	.67	SJ1-3543
	SP-3501	3.5	CP1-3543N-ND★◆	.82	.71	.55	SJ1-3543N
70B	SP-3501	3.5	CP1-3544-ND▲Δ◆	1.00	.87	.67	SJ1-3544
	SP-3501	3.5	CP1-3544N-ND★◆	.82	.72	.55	SJ1-3544N
70C	SP-3501	3.5	CP1-3545N-ND★◆	.83	.72	.56	SJ1-3545N
71A	SP-3501	3.5	CP1-3553NG-ND★◆	.50	.44	.34	SJ1-3553NG
71B	SP-3501	3.5	CP1-3554NG-ND★◆	.52	.45	.35	SJ1-3554NG
71C	SP-3501	3.5	CP1-3555NG-ND★◆	.53	.46	.36	SJ1-3555NG
71D	SP-3501	3.5	CP1-3555NG-BE-ND◆ ***NEW!***	.71	.62	.47	SJ1-3555NG-BE
	SP-3501	3.5	CP1-3555NG-GR-ND◆ ***NEW!***	.71	.62	.47	SJ1-3555NG-GR
	SP-3501	3.5	CP1-3555NG-PI-ND◆ ***NEW!***	.71	.62	.47	SJ1-3555NG-PI
72A	CA-254S or CA-254S-M/M	2.5	CP1-42514-ND	.71	.62	.48	SJ1-42514
72B	CA-254S or CA-254S-M/M	2.5	CP-42515RS-ND	1.05	.91	.70	SJ-42515RS
		2.5	CP1-42515RS-ND	.74	.64	.49	SJ1-42515RS
72C	CA-254S or CA-254S-M/M	2.5	CP-42515TS-ND	1.05	.91	.70	SJ-42515TS
		2.5	CP1-42515TS-ND	.74	.64	.49	SJ1-42515TS
72D	CA-254S or CA-254S-M/M	2.5	CP1-42516-ND◆	.76	.66	.51	SJ1-42516

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
73A	CA-254S or CA-254S-M/M	2.5	CP1-42514SJCT-ND☆◆	.80	.70	.54	SJ1-42514-SMT
		2.5	CP1-42514SJTR-ND✿◆	400.50/1,000			SJ1-42514-SMT
73B	CA-254S or CA-254S-M/M	2.5	CP-42515RSSJTR-ND✿	525.00/1,000			SJ-42515RS-SMT
		2.5	CP-42515RSSJ-ND	1.05	.91	.70	SJ-42515RS-SMT-1
		2.5	CP1-42515RSSJCT-ND☆	.83	.72	.55	SJ1-42515RS-SMT
		2.5	CP1-42515RSSJTR-ND✿	412.50/1,000			SJ1-42515RS-SMT
73C	CA-254S or CA-254S-M/M	2.5	CP-42515TSSJTR-ND✿	525.00/1,000			SJ-42515TS-SMT
		2.5	CP-42515TSSJ-ND	1.05	.91	.70	SJ-42515TS-SMT-1
		2.5	CP1-42515TSSJCT-ND☆	.83	.72	.55	SJ1-42515TS-SMT
		2.5	CP1-42515TSSJTR-ND✿	412.50/1,000			SJ1-42515TS-SMT
73D	CA-254S or CA-254S-M/M	2.5	CP1-42516SJCT-ND☆◆	.85	.74	.57	SJ1-42516-SMT
		2.5	CP1-42516SJTR-ND✿◆	424.50/1,000			SJ1-42516-SMT
74A	CA-254S or CA-254S-M/M	2.5	CP1-42534SJCT-ND☆◆	.86	.75	.57	SJ1-42534-SMT
		2.5	CP1-42534SJTR-ND✿◆	427.50/1,000			SJ1-42534-SMT
74B	CA-254S or CA-254S-M/M	2.5	CP1-42535RSSJCT-ND☆	.88	.77	.59	SJ1-42535RS-SMT
74C	CA-254S or CA-254S-M/M	2.5	CP-42535TSSJTR-ND✿	585.00/1,000			SJ-42535TS-SMT
		2.5	CP-42535TSSJ-ND	1.17	1.02	.78	SJ-42535TS-SMT-1
		2.5	CP1-42535TSSJCT-ND☆	.88	.77	.59	SJ1-42535TS-SMT
		2.5	CP1-42535TSSJTR-ND✿	439.50/1,000			SJ1-42535TS-SMT
74D	CA-254S or CA-254S-M/M	2.5	CP-42536SJ-ND	1.20	1.04	.80	SJ-42536-SMT-1
		2.5	CP1-42536SJCT-ND☆◆	.90	.78	.60	SJ1-42536-SMT
		2.5	CP1-42536SJTR-ND✿◆	450.00/1,000			SJ1-42536-SMT
75	CA-354S or CA-354S-M/M	3.5	CP5-43502PM-ND‡◆	2.19	1.95	1.46	SJ5-43502PM
76A	CA-354S or CA-354S-M/M	3.5	CP-43514-ND◆	.90	.78	.60	SJ-43514
76B	CA-354S or CA-354S-M/M	3.5	CP-43515TS-ND◆	.93	.81	.62	SJ-43515TS
77A	CA-354S or CA-354S-M/M	3.5	CP-43514SJCT-ND☆◆	.69	.60	.46	SJ-43514-SMT
		3.5	CP-43514SJTR-ND✿◆	345.00/1,000			SJ-43514-SMT
77B	CA-354S or CA-354S-M/M	3.5	CP-43515RSSJCT-ND☆◆	.71	.62	.47	SJ-43515RS-SMT
		3.5	CP-43515RSSJTR-ND✿◆	352.50/1,000			SJ-43515RS-SMT
77C	CA-354S or CA-354S-M/M	3.5	CP-43515TSSJCT-ND☆◆	.71	.62	.47	SJ-43515TS-SMT
		3.5	CP-43515TSSJTR-ND✿◆	352.50/1,000			SJ-43515TS-SMT
77D	CA-354S or CA-354S-M/M	3.5	CP-43516SJCT-ND☆◆	.72	.63	.48	SJ-43516-SMT
		3.5	CP-43516SJTR-ND✿◆	360.00/1,000			SJ-43516-SMT
78	CA-354S or CA-354S-M/M	3.5	CP-43516SJBECT-ND☆◆ ***NEW!***	.91	.88	.79	SJ-43516-SMT-BE
		3.5	CP-43516SJBETR-ND✿◆ ***NEW!***	453.00/1,000			SJ-43516-SMT-BE
		3.5	CP-43516SJGRCT-ND☆◆ ***NEW!***	.91	.88	.79	SJ-43516-SMT-GR
		3.5	CP-43516SJGRTR-ND✿◆ ***NEW!***	453.00/1,000			SJ-43516-SMT-GR
		3.5	CP-43516SJPICT-ND☆◆ ***NEW!***	.91	.88	.79	SJ-43516-SMT-PI
		3.5	CP-43516SJPITR-ND✿◆ ***NEW!***	453.00/1,000			SJ-43516-SMT-PI
79	CA-356CS or CA-356CS-M/M	3.5	CP-63516-ND◆	1.26	1.10	.84	SJ-63516
80	—	2.5	CP-2501SP-ND◆	.96	.84	.64	SP-2501

▲ Threaded with nut ★ Non-threaded ▼ Shielded version ☆ Cut Tape ✿ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 76 – Audio Jack

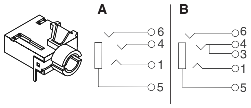

Fig. 77 – SMT Audio Jack

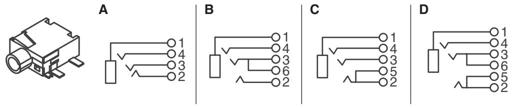

Fig. 78 – SMT Audio Jack with 4 Conductors *NEW!*

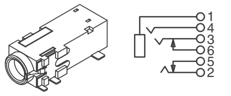

Fig. 79 – Audio Jack

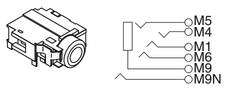

Fig. 80 – 2.5mm Male Stereo Plug

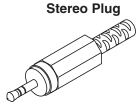

Fig. 81 – 3.5mm Male Stereo Plug

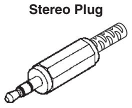

Fig. 82 – Female Mono Jack

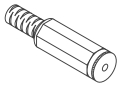

Fig. 83 – Female Stereo Jack

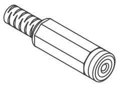

Fig. 84 – Panel Mount Power Jack with Solder Lug Pins

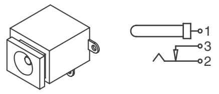

Fig. 85 – Panel Mount Power Jack

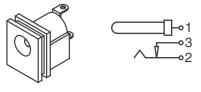

Fig. 86 – Panel Mount Power Jack with Tabs

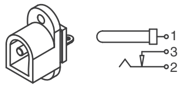

Fig. 87 – Panel Mount Power Jack with Nuts

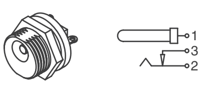

Fig. 88 – Low Profile, Off Center Style Power Jack

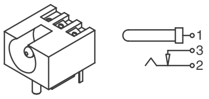

Fig. 89 – Power Jack

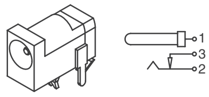

Fig. 90 – Panel Mount Power Jack

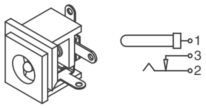

Fig. 91 – Vertical Mount Power Jack with Kinked Pins

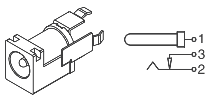

Fig. 92 – Open Frame Power Jack

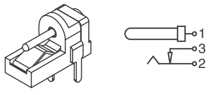

Fig. 93 – Vertical Mount Power Jack

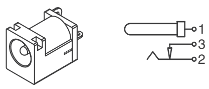

Fig. 94 – Vertical Mount Power Jack with Snap In Case Tabs

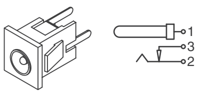

Fig. 95 – Vertical Mount Power Jack

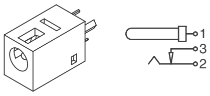

Fig. 96 – Power Jack

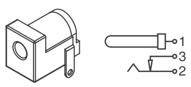

Fig. 97 – Power Jack

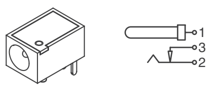

Fig. 98 – Power Jack

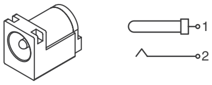

CP-037A-ND and CP-037B-ND without switch.

Fig. 99 – Panel Mount Power Jack

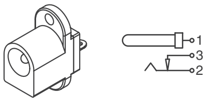

Fig. 100 – Panel Mount Power Jack

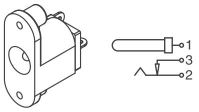

Fig. 101 – Power Jack

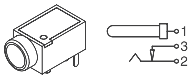

Fig. 102 – Power Jack

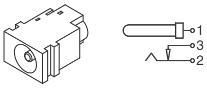

Fig. 103 – Panel Mount Power Jack

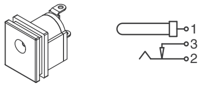

Fig. 104 – Power Jack with Shield

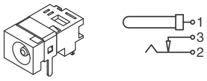

Fig. 105 – Vertical Mount Power Jack with Kinked Pins

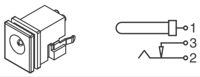

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
81	—	3.5	CP-3502-ND◆	1.04	.90	.70	SP-3501
82	—	2.5	CP-2520-ND◆	1.29	1.12	.86	MR-2501
	—	3.5	CP-3506-ND◆	1.29	1.12	.86	MR-3501
83	—	2.5	CP-2521-ND◆	1.92	1.67	1.28	SR-2501
	—	3.5	CP-3507-ND◆	1.92	1.67	1.28	SR-3501
84	PP3-002A	2.0	CP-008A-ND◆	.53	.47	.36	PJ-008A
	PP3-002B	2.5	CP-008B-ND◆	.53	.47	.36	PJ-008B
85	PP3-002A	2.0	CP-009A-ND◆	.44	.38	.29	PJ-009A
	PP3-002B	2.5	CP-009B-ND◆	.44	.38	.29	PJ-009B
	PP3-002A	2.0	CP-009AH-ND◆	.48	.42	.32	PJ-009AH
	PP3-002B	2.5	CP-009BH-ND◆	.48	.42	.32	PJ-009BH
86	PP3-002A	2.0	CP-010A-ND◆	.43	.38	.29	PJ-010A
	PP3-002B	2.5	CP-010B-ND◆	.43	.38	.29	PJ-010B
	PP3-002A	2.0	CP-010AH-ND◆	.47	.42	.32	PJ-010AH
87	PP3-002A	2.0	CP-011A-ND▲•◆	1.49	1.30	1.00	PJ-011A
	PP3-002B	2.5	CP-011B-ND▲•◆	1.54	1.34	1.03	PJ-011B
88	PP3-002A	2.0	CP-012A-ND◆	.96	.84	.64	PJ-012A
	PP3-002B	2.5	CP-012B-ND◆	.96	.84	.64	PJ-012B
89	PP3-002C	1.0	CP-013C-ND◆	.46	.40	.31	PJ-013C
	PP3-002D	1.3	CP-013D-ND◆	.46	.40	.31	PJ-013D
	PP-013	1.65	CP-018PJ-ND◆	.47	.42	.32	PJ-018
	PP-013	1.65	CP-018H-ND◆	.52	.45	.35	PJ-018H
	PP3-002C	1.0	CP-031C-ND◆	.46	.40	.31	PJ-031C
	PP3-002D	1.3	CP-031D-ND◆	.46	.40	.31	PJ-031D
	PP3-002C	1.0	CP-031CH-ND◆	.50	.44	.34	PJ-031CH
	PP3-002D	1.3	CP-031DH-ND◆	.50	.44	.34	PJ-031DH
90	PP3-002B	2.5	CP-026B-ND◆	.53	.47	.36	PJ-026B
91	PP3-002A	2.0	CP-028A-ND◆	.46	.40	.31	PJ-028A
	PP3-002B	2.5	CP-028B-ND◆	.46	.40	.31	PJ-028B
	PP3-002A	2.0	CP-028AH-ND◆	.51	.44	.34	PJ-028AH
92	PP3-002D	1.3	CP-030DH-ND◆	.50	.44	.34	PJ-030DH
93	PP3-002A	2.0	CP-032A-ND◆	.42	.37	.29	PJ-032A
	PP3-002B	2.5	CP-032B-ND◆	.42	.37	.29	PJ-032B
	PP3-002A	2.0	CP-032AH-ND◆	.47	.41	.32	PJ-032AH
	PP3-002B	2.5	CP-032BH-ND◆	.44	.38	.29	PJ-032BH
94	PP3-002A	2.0	CP-033A-ND◆	.68	.59	.46	PJ-033A
	PP3-002B	2.5	CP-033B-ND◆	.68	.59	.46	PJ-033B
95	PP3-002A	2.0	CP-034A-ND◆	.62	.54	.41	PJ-034A
	PP3-002B	2.5	CP-034B-ND◆	.62	.54	.41	PJ-034B
96	PP3-002C	1.0	CP-035C-ND◆	.41	.36	.28	PJ-035C
	PP3-002D	1.3	CP-035D-ND◆	.41	.36	.28	PJ-035D
	PP3-002D	1.3	CP-035DH-ND◆	.46	.40	.31	PJ-035DH
	PP3-002D	1.3	CP-017DH-ND◆	.46	.40	.31	PJ-017DH
97	PP3-002C	1.0	CP-036C-ND◆	.49	.43	.33	PJ-036C
	PP3-002D	1.3	CP-036D-ND◆	.49	.43	.33	PJ-036D
	PP3-002C	1.0	CP-036CH-ND◆	.53	.47	.36	PJ-036CH
	PP3-002D	1.3	CP-036DH-ND◆	.53	.47	.36	PJ-036DH

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
98	PP3-002A	2.0	CP-037A-ND◆	.47	.41	.32	PJ-037A
	PP3-002B	2.5	CP-037B-ND◆	.47	.41	.32	PJ-037B
	PP3-002A	2.0	CP-037AH-ND◆	.52	.45	.35	PJ-037AH
	PP3-002B	2.5	CP-037BH-ND◆	.52	.45	.35	PJ-037BH
99	PP3-002A	2.0	CP-038A-ND◆	.47	.41	.32	PJ-038A
	PP3-002B	2.5	CP-038B-ND◆	.47	.41	.32	PJ-038B
	PP3-002A	2.0	CP-038AH-ND◆	.52	.45	.35	PJ-038AH
	PP3-002B	2.5	CP-038BH-ND◆	.52	.45	.35	PJ-038BH
100	PP3-002A	2.0	CP-039A-ND◆	.47	.41	.32	PJ-039A
	PP3-002B	2.5	CP-039B-ND◆	.47	.41	.32	PJ-039B
	PP3-002A	2.0	CP-039AH-ND◆	.52	.45	.35	PJ-039AH
	PP3-002B	2.5	CP-039BH-ND◆	.52	.45	.35	PJ-039BH
101	PP3-002C	1.0	CP-040C-ND◆	.49	.43	.33	PJ-040C
	PP3-002D	1.3	CP-040D-ND◆	.49	.43	.33	PJ-040D
	PP3-002C	1.0	CP-040CH-ND◆	.53	.47	.36	PJ-040CH
	PP3-002D	1.3	CP-040DH-ND◆	.53	.47	.36	PJ-040DH
102	PP-014	1.65	CP-041-ND◆	.58	.51	.39	PJ-041
	PP-014	1.65	CP-041H-ND◆	.63	.55	.42	PJ-041H
	PP-014	1.65	CP-042H-ND◆	.63	.55	.42	PJ-042H
103	PP-013	1.65	CP-043-ND◆	.43	.38	.29	PJ-043
	PP-013	1.65	CP-043H-ND◆	.47	.42	.32	PJ-043H
104	PP-013	1.65	CP-045-ND◆	.62	.54	.42	PJ-045
	PP-013	1.65	CP-045H-ND◆	.67	.58	.45	PJ-045H
105	PP-014	1.65	CP-046-ND◆	.53	.46	.36	PJ-046
	PP-014	1.65	CP-046H-ND◆	.57	.50	.39	PJ-046H
106	PP3-002A	2.0	CP-047A-ND◆	.65	.57	.44	PJ-047A
	PP3-002B	2.5	CP-047B-ND◆	.65	.57	.44	PJ-047B
	PP3-002A	2.0	CP-047AH-ND◆	.69	.61	.47	PJ-047AH
	PP3-002B	2.5	CP-047BH-ND◆	.69	.61	.47	PJ-047BH
107	CA-2224 Cable Assy.	3.0	CP-048H-ND◆	.71	.62	.48	PJ-048H
108	PP3-002A	2.0	CP-050A-ND◆	.56	.49	.38	PJ-050A
	PP3-002B	2.5	CP-050B-ND◆	.56	.49	.38	PJ-050B
	PP3-002A	2.0	CP-050AH-ND◆	.61	.53	.41	PJ-050AH
	PP3-002B	2.5	CP-050BH-ND◆	.61	.53	.41	PJ-050BH
109	PP3-002A	2.0	CP-051A-ND◆	.65	.57	.44	PJ-051A
	PP3-002B	2.5	CP-051B-ND◆	.65	.57	.44	PJ-051B
	PP3-002A	2.0	CP-051AH-ND◆	.69	.61	.47	PJ-051AH
	PP3-002B	2.5	CP-051BH-ND◆	.69	.61	.47	PJ-051BH
110	PP3-002C	1.0	CP-052C-ND◆	.62	.54	.41	PJ-052C
	PP3-002D	1.3	CP-052D-ND◆	.62	.54	.41	PJ-052D
111	PP3-002D	1.3	CP-053D-ND◆	.66	.58	.44	PJ-053D
	PP3-002C	1.0	CP-053CH-ND◆	.71	.62	.47	PJ-053CH
	PP3-002D	1.3	CP-053DH-ND◆	.71	.62	.47	PJ-053DH
	PP-013	1.65	CP-054-ND◆	.72	.63	.48	PJ-054

▲ Threaded with nut ★ Non-threaded ▼ Shielded version ✰ Cut Tape ✿ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Fig. 106 – Power Jack with Shield

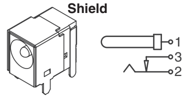

Fig. 107 – Power Jack with Kinked Pins

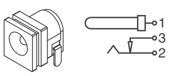

Fig. 108 – Power Jack with Pick-n-Place Top

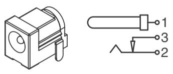

Fig. 109 – Power Jack with Shield

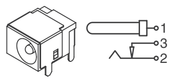

Fig. 110 – Power Jack with Separate Switch

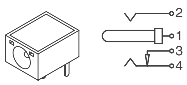

Fig. 111 – Power Jack

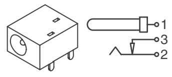

Fig. 112 – Vertical Mount Power Jack

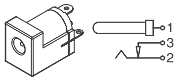

Fig. 113 – Power Jack with 3 Conductors

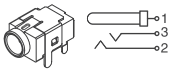

Fig. 114 – Power Jack with Pick-n-Place Top

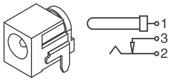

Fig. 115 – Locking Type Power Jack

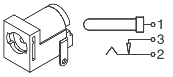

Fig. 116 – Locking Type Power Jack with Tapered Pins

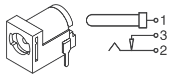

Fig. 117 – DC Power Jack ***NEW!***

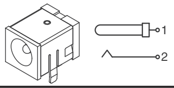

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
112	PP3-002C	1.0	CP-055C-ND◆	.44	.39	.30	PJ-055C
	PP3-002D	1.3	CP-055D-ND◆	.44	.39	.30	PJ-055D
	PP3-002A	2.0	CP-044A-ND◆	.42	.37	.29	PJ-044A
	PP3-002B	2.5	CP-044B-ND◆	.42	.37	.29	PJ-044B
	PP3-002A	2.0	CP-044AH-ND◆	.47	.41	.32	PJ-044AH
	PP3-002B	2.5	CP-044BH-ND◆	.47	.41	.32	PJ-044BH
113	PP-019	1.0	CP-056-ND◆	.68	.59	.46	PJ-056
114	PP3-002A	2.0	CP-057A-ND◆	.65	.57	.44	PJ-057A
	PP3-002B	2.5	CP-057B-ND◆	.65	.57	.44	PJ-057B
	PP3-002A	2.0	CP-057AH-ND◆	.70	.61	.47	PJ-057AH
	PP3-002B	2.5	CP-057BH-ND◆	.70	.61	.47	PJ-057BH
115	CA-2222 Cable Assy.	2.0	CP-058A-ND◆	.52	.46	.35	PJ-058A
	CA-2222 Cable Assy.	2.0	CP-058AH-ND◆	.60	.52	.40	PJ-058AH
	CA-2223 Cable Assy.	2.5	CP-058BH-ND◆	.60	.52	.40	PJ-058BH

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
116	CA-2222 Cable Assy.	2.0	CP-059A-ND◆	.52	.46	.35	PJ-059A
	CA-2223 Cable Assy.	2.5	CP-059B-ND◆	.54	.47	.36	PJ-059B
	CA-2222 Cable Assy.	2.0	CP-059AH-ND◆	.60	.52	.40	PJ-059AH
	CA-2223 Cable Assy.	2.5	CP-059BH-ND◆	.60	.52	.40	PJ-059BH
117	PP3-002AH	2.0	CP-063AH-ND◆ ***NEW!***	1.22	1.07	.82	PJ-063AH
	PP3-002BH	2.5	CP-063BH-ND◆ ***NEW!***	1.22	1.07	.82	PJ-063BH

† CP-2417-ND◆ ***NEW!***	(2.5MM-NUT-E) 2.5mm Replacement Nut	**$.18/1**	**$1.56/10**	**$12.00/100**
◊ CP-3502-NUT-ND◆ ***NEW!***	(MJ3502-NUT) Replacement Nut....................	**$.18/1**	**$1.56/10**	**$12.00/100**
Δ CP-2416-ND◆ ***NEW!***	(3.5MM-NUT-E) 3.5mm Replacement Nut	**$.18/1**	**$1.56/10**	**$12.00/100**
§ CP-005X-HDW-ND◆ ***NEW!***	(PJ-005X-HDW) Replacement Nut and Washer	**$.18/1**	**$1.56/10**	**$12.00/100**
‡ CP5-43502PM-NUT-ND◆ ***NEW!***	(SJ5-43502PM-NUT) Replacement Nut.............	**$.18/1**	**$1.56/10**	**$12.00/100**
• CP-011X-NUT-ND◆ ***NEW!***	(PJ-011X-NUT) Replacement Nut..................	**$.18/1**	**$1.56/10**	**$12.00/100**

▲ Threaded with nut ★ Non-threaded ▼ Shielded version ☆ Cut Tape ✿ Tape and Reel ◆ ***RoHS Compliant***

Single Ended Power Cables

RoHS COMPLIANT

Dimensions - mm A	B	C	Wire AWG	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
0.9	3.2	9.0	24	CP-2221-ND	3.87	3.36	2.58	CA-2221
2.5	5.5	12.0	18	CP-2223-ND*	3.99	3.46	2.66	CA-2223

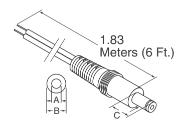

* Twist Lock

TENSILITY Male Stereo Audio Cable

Fig. 1 – Male to Stripped and Tinned

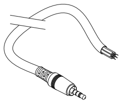

Fig. 2 – Male to Male

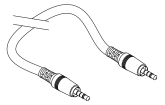

Fig.	Dia. (mm)	Length Meters	Digi-Key Part No.	Price Each 1	10	100	Tensility Part No.	CUI Inc. Mating Jacks
1	2.5	1.83	CP-254CS-ND	5.34	4.63	3.56	CA-254CS	SJ-4252X-SMT
	2.5	1.83	CP-254S-ND◆	5.19	4.50	3.46	CA-254S	SJ-4251X-SMT, SJ-4243X-SMT
	3.5	1.83	CP-354S-ND◆	6.09	5.28	4.06	CA-354S	SJ-4351X, SJ-43502PM
2	2.5	1.83	CP-254S-M/M-ND◆	6.09	5.28	4.06	CA-254S-M/M	SJ-4251X-SMT, SJ-4243X-SMT, SJ-4251X
	3.5	1.83	CP-354S-M/M-ND◆	6.66	5.78	4.44	CA-354S-M/M	SJ-4351X, SJ-43502PM

◆ ***RoHS Compliant***

Single Ended Audio Cables

RoHS COMPLIANT

Fig.	Dim. - mm A	B	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	Tensility Part No.
				Mono Plug				
1	2.5	11.5	24	CP-2201-ND	2.61	2.27	1.74	CA-2201
	3.5	13	24	CP-2205-ND	2.64	2.29	1.76	CA-2205
2	2.5	11.5	24	CP-2202-ND	2.61	2.27	1.74	CA-2202
	3.5	14.5	24	CP-2206-ND	2.64	2.29	1.76	CA-2206
				Stereo Plug				
1	2.5	11	24	CP-2203-ND	2.64	2.29	1.76	CA-2203
	3.5	13	24	CP-2207-ND	2.70	2.34	1.80	CA-2207
2	2.5	11	24	CP-2204-ND	2.64	2.29	1.76	CA-2204
	3.5	14	24	CP-2208-ND	2.70	2.34	1.80	CA-2208

Fig. 1 — Straight

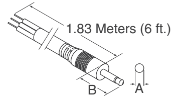

Fig. 2 — Right Angle

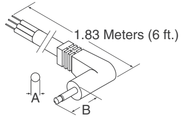

Single Ended Power Cables

RoHS COMPLIANT

Fig. 1 – Straight

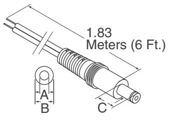

Fig. 2 – Right Angle

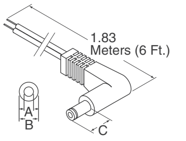

Fig.	Dimensions - mm A	B	C	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	Tensility Part No.
1	0.7	2.35	9.5	24	CP-2192-ND	1.98	1.72	1.32	CA-2192
	1.35	3.5	9.5	24	CP-2193-ND	1.80	1.56	1.20	CA-2193
	1.7	4.0	10.0	24	CP-2194-ND	1.86	1.62	1.24	CA-2194
	1.7	4.75	9.5	24	CP-2195-ND	1.86	1.62	1.24	CA-2195
	2.1	5.5	12.0	18	CP-2187-ND	2.91	2.53	1.94	CA-2187
	2.1	5.5	12.0	24	CP-2185-ND	1.74	1.51	1.16	CA-2185
	2.5	5.5	12.0	18	CP-2186-ND	2.91	2.53	1.94	CA-2186
	2.5	5.5	12.0	24	CP-2184-ND	1.74	1.51	1.16	CA-2184
	2.1	5.5	12.0	18	CP-2222-ND*	3.99	3.46	2.66	CA-2222
	3.0	6.5	12.0	18	CP-2224-ND	3.81	3.31	2.54	CA-2224
2	0.7	2.35	11.0	24	CP-2196-ND	1.92	1.67	1.28	CA-2196
	1.35	3.5	10.0	24	CP-2197-ND	1.80	1.56	1.20	CA-2197
	1.7	4.0	9.5	24	CP-2198-ND	1.86	1.62	1.24	CA-2198
	1.7	4.75	9.5	24	CP-2199-ND	1.86	1.62	1.24	CA-2199
	2.1	5.5	12.0	24	CP-2189-ND	1.74	1.51	1.16	CA-2189
	2.1	5.5	10.0	18	CP-2191-ND	2.91	2.53	1.94	CA-2191
	2.5	5.5	12.0	24	CP-2188-ND	1.74	1.51	1.16	CA-2188
	2.5	5.5	10.0	18	CP-2200-ND	2.91	2.53	1.94	CA-2200

* Twist Lock

DC Extension Cables

RoHS COMPLIANT

Fig. 1 — Straight

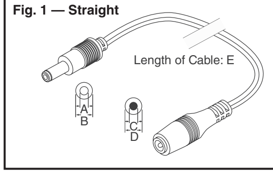

Fig. 2 — Right Angle

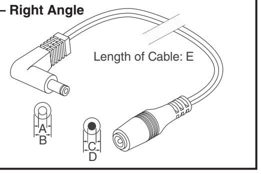

Fig.	Diameter - mm A	B	C	D	Length (E) Meters	Digi-Key Part No.	Price Each 1	10	100	Tensility Part No.
1	1.35	3.50	1.35	3.50	.915	CP-2217-ND	2.67	2.32	1.78	CA-2217
	2.10	5.50	2.10	5.50	.915	CP-2216-ND	3.06	2.66	2.04	CA-2216
	2.50	5.50	2.50	5.50	.915	CP-2215-ND	3.06	2.66	2.04	CA-2215
	1.35	3.50	1.35	3.50	1.830	CP-2211-ND	2.91	2.53	1.94	CA-2211
	2.10	5.50	2.10	5.50	1.830	CP-2210-ND	3.84	3.33	2.56	CA-2210
	2.50	5.50	2.50	5.50	1.830	CP-2209-ND	3.84	3.33	2.56	CA-2209
2	1.35	3.50	1.35	3.50	.915	CP-2220-ND	2.67	2.32	1.78	CA-2220
	2.10	5.50	2.10	5.50	.915	CP-2219-ND	3.06	2.66	2.04	CA-2219
	2.50	5.50	2.50	5.50	.915	CP-2218-ND	3.06	2.66	2.04	CA-2218
	1.35	3.50	1.35	5.50	1.830	CP-2214-ND	2.91	2.53	1.94	CA-2214
	2.10	5.50	2.10	5.50	1.830	CP-2213-ND	3.84	3.33	2.56	CA-2213
	2.50	5.50	2.50	5.50	1.830	CP-2212-ND	3.84	3.33	2.56	CA-2212

TENSILITY NEW! Locking DC Plug Cables

Zip Style Cable Specifications: • Plug Overmold: 30P, PVC, Black • Cable Description: UL2468, 0.16 x 41 strands, twin wire • Cable Color: Black • Cable Gauge: AWG #18 • Rated Load: 12Vdc @ 5A
Round Shielded Cable Specifications: • Plug Overmold: 30P, PVC, Black • Cable Description: UL1185, 0.16 x 41 strands, shield wire, 1F • Cable Color: Black • Cable Gauge: AWG #18 • Rated Load: 12Vdc @ 5A

Fig.	Dimensions (mm) A	B	Length	Digi-Key Part No.	Pricing 1	10	100	Tensility Part No.	CUI Mating Jack
Zip Style Cable									
1	2.1	5.5	2M	839-1002-ND	7.36	63.78	490.60	10-00111	PJ-005A
	2.5	5.5	2M	839-1009-ND	7.36	63.78	490.60	10-00118	PJ-005B
2	2.1	5.5	2M	839-1004-ND	6.38	55.33	425.60	10-00113	PJ-005A
	2.5	5.5	2M	839-1011-ND	6.38	55.33	425.60	10-00120	PJ-005B
3	2.1	5.5	2M	839-1000-ND	7.36	63.78	490.60	10-00109	PJ-005A
	2.5	5.5	2M	839-1013-ND	7.36	63.78	490.60	10-00122	PJ-005B
4	2.1	5.5	2M	839-1007-ND	6.38	55.33	425.60	10-00116	PJ-005A
	2.5	5.5	2M	839-1015-ND	6.38	55.33	425.60	10-00124	PJ-005B
Round Shielded Cable									
1	2.1	5.5	2M	839-1001-ND	7.56	65.55	504.20	10-00110	PJ-005A
	2.5	5.5	2M	839-1008-ND	7.56	65.55	504.20	10-00117	PJ-005B
2	2.1	5.5	2M	839-1003-ND	6.59	57.10	439.20	10-00112	PJ-005A
	2.5	5.5	2M	839-1010-ND	6.59	57.10	439.20	10-00119	PJ-005B
3	2.1	5.5	2M	839-1005-ND	7.56	65.55	504.20	10-00114	PJ-005A
	2.5	5.5	2M	839-1012-ND	7.56	65.55	504.20	10-00121	PJ-005B
4	2.1	5.5	2M	839-1006-ND	6.59	57.10	439.20	10-00115	PJ-005A
	2.5	5.5	2M	839-1014-ND	6.59	57.10	439.20	10-00123	PJ-005B

Fig. 1

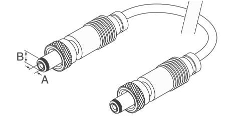

Fig. 2

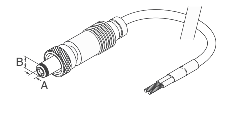

Fig. 3

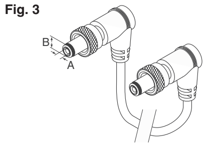

Fig. 4

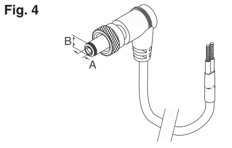

CUI INC Phono Plugs and Jacks

Digi-Reel®

Fig. 1

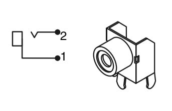

Fig. 2

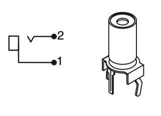

Fig. 3

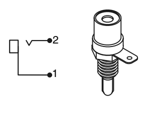

Fig. 4

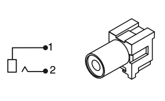

Fig. 5

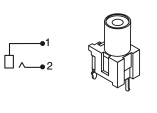

Fig. 6

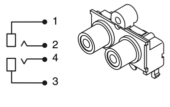

Fig. 7

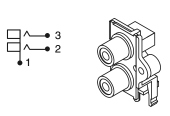

Fig. 8

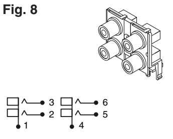

Fig. 9

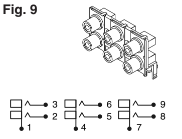

Fig. 10

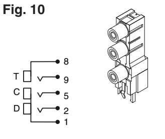

Fig. 11

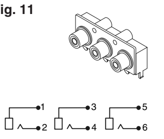

Fig. 12

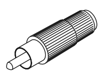

Fig. 13

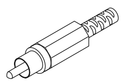

Fig. 14

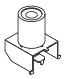

Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
1	Black	CP-1400-ND◆	.66	.58	.44	RCJ-011
	Red	CP-1401-ND◆	.66	.58	.44	RCJ-012
	White	CP-1402-ND◆	.66	.58	.44	RCJ-013
	Yellow	CP-1403-ND◆	.66	.58	.44	RCJ-014
	Blue	CP-1404-ND◆	.66	.58	.44	RCJ-015
	Green	CP-1405-ND◆	.66	.58	.44	RCJ-016
	Orange	CP-1466-ND◆	.66	.58	.44	RCJ-017
2	Black	CP-1406-ND◆	.79	.69	.53	RCJ-021
	Red	CP-1407-ND◆	.79	.69	.53	RCJ-022
	White	CP-1408-ND◆	.79	.69	.53	RCJ-023
	Yellow	CP-1409-ND◆	.79	.69	.53	RCJ-024
	Blue	CP-1410-ND◆	.79	.69	.53	RCJ-025
	Green	CP-1411-ND◆	.79	.69	.53	RCJ-026
	Orange	CP-1467-ND◆	.79	.69	.53	RCJ-027
3	Black	CP-1412-ND◆	1.04	.91	.70	RCJ-031
	Red	CP-1413-ND◆	1.04	.91	.70	RCJ-032
	White	CP-1414-ND◆	1.04	.91	.70	RCJ-033
	Yellow	CP-1415-ND◆	1.04	.91	.70	RCJ-034
	Blue	CP-1416-ND◆	1.05	.91	.70	RCJ-035
	Green	CP-1417-ND◆	1.05	.91	.70	RCJ-036
	Orange	CP-1468-ND◆	1.05	.91	.70	RCJ-037
4	Black	CP-1418-ND◆	1.22	1.06	.82	RCJ-041
	Red	CP-1419-ND◆	1.22	1.06	.82	RCJ-042
	White	CP-1420-ND◆	1.23	1.07	.82	RCJ-043
4	Yellow	CP-1421-ND◆	1.22	1.06	.82	RCJ-044
	Blue	CP-1422-ND◆	1.22	1.06	.82	RCJ-045
	Green	CP-1423-ND◆	1.22	1.06	.82	RCJ-046
	Orange	CP-1469-ND◆	1.22	1.06	.82	RCJ-047
5	Black	CP-1424-ND◆	.90	.78	.60	RCJ-051
	Red	CP-1425-ND◆	.90	.78	.60	RCJ-052
	White	CP-1426-ND◆	.90	.78	.60	RCJ-053
	Yellow	CP-1427-ND◆	.90	.78	.60	RCJ-054
	Blue	CP-1428-ND◆	.90	.78	.60	RCJ-055
	Green	CP-1429-ND◆	.90	.78	.60	RCJ-056
	Orange	CP-1470-ND◆	.90	.78	.60	RCJ-057
6	Red/Black	CP-1430-ND◆	1.23	1.07	.82	RCJ-2121
	White/Yellow	CP-1431-ND◆	1.23	1.07	.82	RCJ-2134
	Red/White	CP-1432-ND◆	1.23	1.07	.82	RCJ-2123
7	Red/Black	CP-1433-ND◆	1.18	1.03	.79	RCJ-2221
	White/Yellow	CP-1434-ND◆	1.18	1.03	.79	RCJ-2234
	Red/White	CP-1435-ND◆	1.18	1.03	.79	RCJ-2223
8	White/Yellow	CP-1437-ND◆	2.01	1.75	1.34	RCJ-413344
	Red/White	CP-1438-ND◆	2.01	1.75	1.34	RCJ-412233
9	Red/Black	CP-1439-ND◆	2.53	2.20	1.69	RCJ-61212121
10	Red/White/Yellow	CP-1443-ND§	1.51	1.31	1.01	RCJ-31234
	Red/White/Yellow	CP-1464-ND	2.06	1.79	1.38	RCJ-33234
11	Red/White/Yellow	CP-1445-ND◆	2.02	1.75	1.35	RCJ-32234
	Red/Green/Blue	CP-1446-ND◆	2.02	1.75	1.35	RCJ-32265
12	Black	CP-1447-ND◆	1.21	1.05	.81	RCP-011
	Red	CP-1448-ND◆	1.21	1.05	.81	RCP-012
	White	CP-1449-ND◆	1.21	1.05	.81	RCP-013
	Yellow	CP-1450-ND◆	1.21	1.05	.81	RCP-014
	Blue	CP-1451-ND◆	1.21	1.05	.81	RCP-015
	Green	CP-1452-ND◆	1.21	1.05	.81	RCP-016
13	Black	CP-1453-ND◆	1.25	1.09	.84	RCP-021
	Red	CP-1454-ND◆	1.25	1.09	.84	RCP-022
	White	CP-1455-ND◆	1.25	1.09	.84	RCP-023
	Yellow	CP-1456-ND◆	1.25	1.09	.84	RCP-024
	Blue	CP-1457-ND◆	1.25	1.09	.84	RCP-025
	Green	CP-1458-ND◆	1.25	1.09	.84	RCP-026
14	Black	CP-1459-1-ND◆‡	.72	.63	.56	RCJ-011-SMT
	Black	CP-1459-2-ND◆†	120.00/250			RCJ-011-SMT
	Red	CP-1460-1-ND‡	.72	.63	.56	RCJ-012-SMT
	Red	CP-1460-2-ND†	120.00/250			RCJ-012-SMT
	White	CP-1461-1-ND‡	.72	.63	.56	RCJ-013-SMT
	White	CP-1461-2-ND†	120.00/250			RCJ-013-SMT
	Yellow	CP-1462-1-ND◆‡	.72	.63	.56	RCJ-014-SMT
	Yellow	CP-1462-2-ND◆†	120.00/250			RCJ-014-SMT
	Orange	CP-1463-1-ND‡	.72	.63	.56	RCJ-017-SMT
	Orange	CP-1463-2-ND†	120.00/250			RCJ-017-SMT

◆ ***RoHS Compliant*** § Not Recommended for New Design
‡ Cut Tape † Tape and Reel

EDAC INC Edgecard Connectors

MATERIALS: • Insulator: Thermoplastic Polyester, UL 94V-0 (Series 322: Grey Polycarbonate) **• Contacts:** Copper, Nickel, Tin Alloy CA-725 or Phosphor Bronze **• Contact Plating:** Gold on Mating Area, Tin on the Contact Tails, Nickel Underplate **• Colors**: Series 305, 306, 307, 341, 345 and 346 are green; Series 357 and 395 are black.

MECHANICAL: • P.C. Card Slot: Accepts boards .054" (1.37mm) ~ .070" (1.78mm) thick

ELECTRICAL: • Insulation Resistance: 5000MΩ at 500VDC **• Dielectric Withstanding Voltage:** Series 341, 345, 395: 1200VAC RMS at sea level; Series 305, 306, 322, 357: 1800VAC RMS at sea level; Series 346: 1500VAC RMS at sea level **• Current Rating:** Series 305, 306, 307, 322, 357: 5 Amperes; Series 345, 346, 341, 395: 3 Amperes **• Contact Resistance:** 10mΩ, maximum

ENVIRONMENTAL: • Operating Temperature: -65°C ~ 105°C

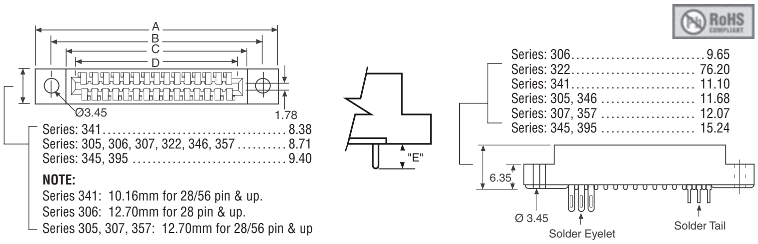

Series: 341 .... 8.38
Series: 305, 306, 307, 322, 346, 357 .... 8.71
Series: 345, 395 .... 9.40

NOTE:
Series 341: 10.16mm for 28/56 pin & up.
Series 306: 12.70mm for 28 pin & up.
Series 305, 307, 357: 12.70mm for 28/56 pin & up

Series: 306 .... 9.65
Series: 322 .... 76.20
Series: 341 .... 11.10
Series: 305, 346 .... 11.68
Series: 307, 357 .... 12.07
Series: 345, 395 .... 15.24

Contacts	Dimensions (mm) A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Solder Tail — .140" (3.56mm) Row-to-Row Spacing .100" (2.54mm) Contact Centers											
12	37.47	29.85	22.23	17.78	3.18	EDC341120-ND†	7.75	68.75	550.00	2500.00	341-012-520-201

‡ 4-40 Thread † No Mounting Lugs § Floating Eyelets

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

	Dimensions (mm)					Digi-Key Part No.	Pricing				EDAC Part No.
Contacts	A ±.38	B ±.20	C ±.38	D ±.15	E ±.51		1	10	100	500	
12	37.47	29.85	22.23	17.78	3.18	EDC341122-ND	7.75	68.75	550.00	2500.00	341-012-520-202
20	47.63	40.01	32.29	27.94	3.18	EDC341202-ND	4.25	37.68	301.40	1370.00	341-020-520-202
50	85.73	78.11	70.49	66.04	3.18	EDC341502-ND	5.67	50.33	402.60	1830.00	341-050-520-202
Solder Tail — .140" (3.56mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC305122-ND	3.10	27.50	220.00	1000.00	305-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC305202-ND	3.66	32.45	259.60	1180.00	305-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC305242-ND	4.19	37.13	297.00	1350.00	305-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC305302-ND	4.53	40.15	321.20	1460.00	305-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC305362-ND	5.24	46.48	371.80	1690.00	305-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC305442-ND	5.92	52.53	420.20	1910.00	305-044-520-202
Solder Tail — .200" (5.08mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	46.61	40.01	32.00	27.94	4.45	EDC345200-ND†	6.79	60.23	481.80	2190.00	345-020-520-201
20	46.61	40.01	32.00	27.94	4.45	EDC395202-ND	2.64	23.38	187.00	850.00	395-020-520-202
26	54.23	47.63	39.62	35.56	4.45	EDC395262-ND	3.16	28.05	224.40	1020.00	395-026-520-202
30	59.31	52.71	44.70	40.64	4.45	EDC395302-ND	3.35	29.70	237.60	1080.00	395-030-520-202
36	66.93	60.33	52.32	48.26	4.45	EDC345362-ND†	8.25	73.15	585.20	2660.00	345-036-520-201
36	66.93	60.33	52.32	48.26	4.45	EDC395362-ND	3.53	31.35	250.80	1140.00	395-036-520-202
40	72.01	65.41	57.40	53.34	4.45	EDC395402-ND	3.72	33.00	264.00	1200.00	395-040-520-202
44	77.09	70.49	62.48	58.42	4.45	EDC395442-ND	3.91	34.65	277.20	1260.00	395-044-520-202
50	84.71	78.11	70.10	66.04	4.45	EDC395500-ND†	9.77	86.63	693.00	3150.00	395-050-520-201
50	84.71	78.11	70.10	66.04	4.45	EDC395502-ND	4.46	39.60	316.80	1440.00	395-050-520-202
60	97.41	90.81	82.80	78.74	4.45	EDC395602-ND	4.81	42.63	341.00	1550.00	395-060-520-202
62	99.95	93.35	85.34	81.28	4.45	EDC395622-ND	5.18	45.93	367.40	1670.00	395-062-520-202
62	99.95	93.35	85.34	81.28	4.45	EDC395062-ND§	2.26	20.08	160.60	730.00	395-062-520-350
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC307122-ND	4.99	44.28	354.20	1610.00	307-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC357202-ND	3.35	29.70	237.60	1080.00	357-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC357242-ND	3.53	31.35	250.80	1140.00	357-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC357302-ND	3.57	31.63	253.00	1150.00	357-030-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC307302-ND	7.69	68.20	545.60	2480.00	307-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC357362-ND	4.06	36.03	288.20	1310.00	357-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC357442-ND	4.81	42.63	341.00	1550.00	357-044-520-202
44	123.83	102.36	91.89	83.21	5.41	EDC322442-ND‡	29.88	265.10	2120.80	9640.00	322-044-520-258
Solder Tail — .250" (6.35mm) Row-to-Row Spacing											
.125" (3.18mm) Contact Centers											
44	90.42	83.69	77.09	73.03	4.45	EDC346442-ND	4.06	36.03	288.20	1310.00	346-044-520-202
56	109.47	102.74	96.14	92.08	4.45	EDC346562-ND	4.81	42.63	341.00	1550.00	346-056-520-202
72	134.87	128.14	121.54	117.48	4.45	EDC346722-ND	11.63	103.13	825.00	3750.00	346-072-520-202
100	179.32	172.59	165.99	161.93	4.45	EDC346102-ND	8.25	73.15	585.20	2660.00	346-100-520-202
Solder Tail — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	5.41	EDC306102-ND	3.78	33.55	268.40	1220.00	306-010-520-102
15	82.45	74.57	67.31	63.60	5.41	EDC306152-ND	5.24	46.48	371.80	1690.00	306-015-520-102
18	94.34	86.46	79.20	75.49	5.41	EDC306182-ND	5.77	51.15	409.20	1860.00	306-018-520-102
22	110.19	102.31	95.05	91.34	5.41	EDC306222-ND	7.01	62.15	497.20	2260.00	306-022-520-102
Solder Eyelets — .140" (3.56mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	47.63	40.01	32.29	27.94	5.59	EDC341200-ND	13.55	120.18	961.40	4370.00	341-020-500-202
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC305120-ND	3.10	27.50	220.00	1000.00	305-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC305200-ND	3.66	32.45	259.60	1180.00	305-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC305240-ND	4.19	37.13	297.00	1350.00	305-024-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC305360-ND	5.24	46.48	371.80	1690.00	305-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC305440-ND	5.92	52.53	420.20	1910.00	305-044-500-202
48	118.11	110.24	102.97	99.26	7.16	EDC305480-ND	11.01	97.63	781.00	3550.00	305-048-500-202
56	133.96	126.09	118.82	115.11	7.16	EDC305560-ND	11.90	105.60	844.80	3840.00	305-056-500-202
Solder Eyelets — .200" (5.08mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC307120-ND	2.07	—	—	—	307-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC307200-ND	3.32	29.43	235.40	1070.00	307-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC307240-ND	3.47	30.80	246.40	1120.00	307-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC307300-ND	3.53	31.35	250.80	1140.00	307-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC307360-ND	4.03	35.75	286.00	1300.00	307-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC307440-ND	4.77	42.35	338.80	1540.00	307-044-500-202
Solder Eyelets — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	7.16	EDC306100-ND	3.78	33.55	268.40	1220.00	306-010-500-102
15	82.45	74.57	67.31	63.60	7.16	EDC306150-ND	5.24	46.48	371.80	1690.00	306-015-500-102
18	94.34	86.46	79.20	75.49	7.16	EDC306180-ND	5.77	51.15	409.20	1860.00	306-018-500-102
22	110.19	102.31	95.05	91.34	7.16	EDC306220-ND	7.01	62.15	497.20	2260.00	306-022-500-102

Contacts	Contact Spacing (mm)	Dimensions (mm)		Bus Style	Digi-Key Part No.	Pricing				EDAC Part No.
		C ±.38	D ±.15			1	10	100	500	
Industry Standard Bus Systems										
120	2.54	159.00	154.94	VERSABUS	EDC345202-ND	6.88	61.05	488.40	2220.00	345-120-520-201
56	3.18	96.14	92.08	STANDARD BUS	EDC346052-ND	10.45	92.68	741.40	3370.00	346-056-520-802
98	2.54	131.06	127.00	IMB PC-AT ISA	EDC395982-ND§	2.57	22.83	182.60	830.00	395-098-520-350

‡ 4-40 Thread † No Mounting Lugs § Floating Eyelets

DIN Connectors

Technical Characteristics: • Insulator Material: Polyester Thermoplastic UL 94V0 • Contact Material: Copper Alloy • Contact Plating: Active Zone, Gold over Nickel; Termination Zone, Matte Tin over Nickel • Current Rating at 20°C: 1.5A • Maximum Current: 2A • Temperature Range: -55°C ~ 125°C • Contact Resistance: ≤ 20 mΩ • Insulation Resistance: ≥10^6 MΩ

Fig. 1

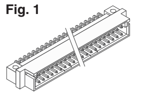

Fig. 2

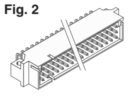

Fig. 3

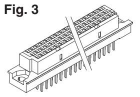

Fig. 4

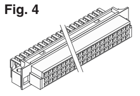

Fig.	No. of Rows	No. of Positions	Style	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Headers								
1	2	64	B	609-2110-ND	4.79	2.98	2.70	86092645113755E1LF
2	3	32	C/2	609-2117-ND	3.16	1.87	1.66	86094327313755E1LF
	3	48	C/2	609-2112-ND	1.92	1.13	.96	86093487313755ELF
	3	64	C	609-2119-ND	2.06	1.22	1.05	86094647113755ELF
	3	96	C	609-2115-ND	3.75	2.32	2.04	86093967113755ELF
Receptacles								
3	2	32	C/2	609-3450-ND	2.93	1.81	1.60	86094328314755V1LF
	2	64	B	609-2111-ND	4.96	3.20	2.84	86092646114755E1LF
	3	48	C/2	609-3449-ND	2.45	1.48	1.29	86093488314755V1LF
	3	64	C	609-2120-ND	2.43	1.44	1.28	86094648114755V1LF
	3	96	C	609-3571-ND	3.85	2.38	2.10	86093968114755V1LF
4	3	48	R/2	609-2114-ND	3.29	2.04	1.79	86093488613755E1LF
	3	64	R	609-2121-ND	2.11	1.24	1.08	86094648813755V1LF
	3	96	R	609-2116-ND	3.10	1.91	1.66	86093968813755V1LF

DDR2 Memory Module Sockets

DDR2 memory module sockets from FCI accept industry-standard FB-DIMM, DIMM or SO-DIMM assemblies. The sockets allow convenient memory expansion in servers, workstations, desktop PCs, mobile PCs and embedded applications in communications and industrial equipment.

Materials: • Housing: High-Temperature Thermoplastic UL94V-O • Contact Base Metal: Copper Alloy • Contact Area Finish: Gold Over Nickel • Solder Area Finish: Tin over Nickel or Gold Flash over Nickel

Specifications: • Initial Contact Resistance: 30mΩ Maximum • Current Rating: 0.5A Contact Maximum • Durability: 25 Cycles Minimum

Fig. 1

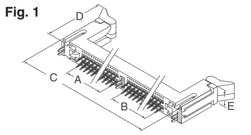

Fig. 2

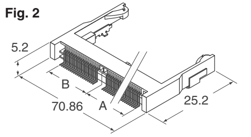

Fig.	Description	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
240 Position DDR2 DIMM Sockets											
1	Solder Termination with Metal Forklocks	2.480 (63.00)	2.165 (55.00)	5.551 (141.00)	1.008 (25.60)	0.299 (7.60)	609-1000-ND	2.51	1.44	1.25	10005639-11107LF
	Solder Termination with Metal Forklocks	2.480 (63.00)	2.165 (55.00)	5.551 (141.00)	1.008 (25.60)	0.299 (7.60)	609-1001-ND	2.43	1.31	1.12	10005639-11109LF
	Solder Termination with Metal Forklocks	2.480 (63.00)	2.165 (55.00)	5.551 (141.00)	1.008 (25.60)	0.299 (7.60)	609-1002-ND	2.51	1.44	1.25	10005639-12207LF
	Pressfit Termination with Alignment Post	2.480 (63.00)	2.165 (55.00)	5.576 (141.62)	1.012 (25.70)	0.299 (7.60)	609-1005-ND	4.98	3.09	2.80	10034542-10002LF
240 Position DDR2 FB-DIMM Sockets											
1	Solder Termination with Metal Forklocks	2.638 (67.00)	2.008 (51.00)	5.551 (141.00)	0.906 (23.00)	0.305 (7.75)	609-1003-ND	2.61	1.62	1.47	10037402-11107LF
	and Ergonomic Latch Design	2.638 (67.00)	2.008 (51.00)	5.551 (141.00)	0.906 (23.00)	0.305 (7.75)	609-1004-ND	2.88	1.57	1.41	10037402-11109LF
200 Position DDR2 SO-DIMM Sockets											
2	Standard Module Orientation with Locating Peg	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1006-ND	11.04	7.03	6.43	10033853-052FSLF
	Standard Module Orientation	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1007-ND	11.25	7.03	6.43	10033853-152FSLF
	Reverse Module Orientation with Locating Peg	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1008-ND	11.25	7.04	6.43	10033854-052FSLF
	Reverse Module Orientation	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1009-ND	11.54	7.22	6.60	10033854-152FSLF

High Definition Multimedia Interface

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Receptacle SMT	609-1010-1-ND†	.99	.61	.55	10029449-00R1LF
	Without Flange	609-1010-2-ND‡		871.59/2,000		10029449-00R1LF
2	Receptacle SMT With Flange	609-1011-ND	1.34	.76	.62	10029449-002TLF

† Cut Tape ‡ Tape and Reel

Features: • Meets HDMI spec1.1 • Metal shield for better EMI • Speed to 5Gpbs Uncompressed Single Transmit Rate • Backward Compatible with DVI • Low Impedance Mismatch • Simple and Flexible Design • Type A

Fig. 1

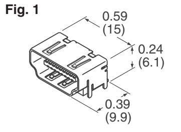

Fig. 2

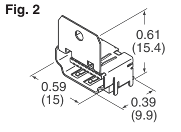

Power Card Edge Connectors

Fig.	Circuit Size	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	FCI Part No.
1	64	87.86	609-2863-ND	7.09	4.91	4.63	10046971-001LF
	70	95.50	609-2859-ND	5.10	3.06	2.89	10046971-003LF
2	64	—	609-2861-ND	7.80	5.31	5.09	10053363-200LF

The Power Card Edge connector is a cost-effective connector system that can be used for DC power output from embedded AC/DC power supplies or for power distribution between boards within an enclosure. The connectors' low profiles are ideal for use in enterprise data or communications equipment.

Features: • One-piece card edge design provides cost-effective power delivery with capacity for up to 7A per power contact
• Low-profile design helps maximize airflow for system cooling

Fig. 1

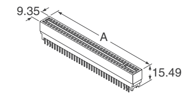

Fig. 2

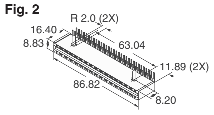

molex® Power Edge™ Connector

Features: • End-to-end stackable for card edge requirements up to 203.2mm (8") in length • Foot print compatible and end-to-end stackable with competing connectors **Specifications:** • Segment Spacing: 12.90mm (.508") • Current (max): 40A @ 50V • Voltage (max): 250V • Flammability: UL 94V-0 • Temperature Range: -40°C ~ 105°C • UL File Number: E29179

No. of Contacts	Segments	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
4	2	26.8	WM19100-ND	7.59	6.96	5.57	45719-0007
6	3	39.7	WM19101-ND	11.41	10.46	8.37	45719-0008
8	4	52.6	WM19102-ND	15.18	13.92	11.14	45719-0009

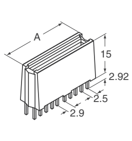

PCI Express Edge Card Connectors

Features: • **Housing Material:** Nylon 46 • **Housing Color:** Black • **Terminal Material:** Phospher Bronze • **Contact Plating:** 30µ" gold • **Soldertail Plating:** 100µ" minimum tin over 50µ" nickel overall

Circuit Size	Plating	Dim. B (mm)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
36	30µ" Gold	25	WM9000-ND	1.46	1.34	1.22	87715-9006
64	30µ" Gold	39	WM9001-ND	2.12	1.94	1.77	87715-9106
98	30µ" Gold	56	WM9002-ND	3.44	3.16	2.87	87715-9206
164	30µ" Gold	89	WM9003-ND	5.03	4.61	4.19	87715-9306
36	15µ" Gold	25	WM9029-ND	1.59	1.46	1.33	87715-9005
64	15µ" Gold	39	WM9030-ND	2.12	1.94	1.77	87715-9105
98	15µ" Gold	56	WM9031-ND	3.44	3.16	2.87	87715-9205
164	15µ" Gold	89	WM9032-ND	5.03	4.61	4.19	87715-9305

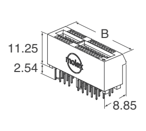

samtec 0.80mm Hi-Speed Sockets

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** BeCu • **Plating:** Au or Sn over 50µ" (1.27µm) Ni • **Current Rating:** 3.1A @ 30°C Temperature Rise • **Operating Temperature:** -55°C ~ 125°C • **Card Insertion Depth:** (3.15mm) .125" nominal • **Mates with:** 1.6mm thick cards

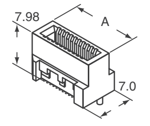

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
20	15.8	SAM8079-ND	6.40	4.68	HSEC8-110-01-SM-DV-A
40	23.8	SAM8080-ND	7.15	5.30	HSEC8-120-01-SM-DV-A
60	31.8	SAM8081-ND	7.73	5.57	HSEC8-130-01-SM-DV-A
80	39.8	SAM8082-ND	8.47	6.36	HSEC8-140-01-SM-DV-A
100	47.8	SAM8083-ND	9.58	7.19	HSEC8-150-01-SM-DV-A
120	55.8	SAM8084-ND	10.10	7.69	HSEC8-160-01-SM-DV-A

1mm Mini Edge-Card Sockets

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** BeCu • **Plating:** Au or Sn over 50µ" (1.27µm) Ni • **Current Rating:** 2A @ 80°C Ambient • **Operating Temperature:** -55°C ~ 125°C • **Insertion Depth:** (5.84mm) .230" to (8.13mm) .320" • **Voltage Rating:** 300VAC • **Mates with:** (1.60mm) .062" card

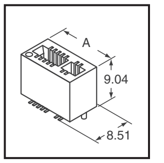

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
10	9.54	SAM8115-ND	5.56	4.07	MEC1-105-02-S-D-A
16	12.54	SAM8116-ND	5.90	4.32	MEC1-108-02-S-D-A
40	24.54	SAM8117-ND	6.98	5.17	MEC1-120-02-S-D-A
60	34.54	SAM8118-ND	7.55	5.44	MEC1-130-02-S-D-A
80	44.54	SAM8119-ND	8.26	6.20	MEC1-140-02-S-D-A
100	54.54	SAM8120-ND	9.34	7.01	MEC1-150-02-S-D-A
120	64.54	SAM8121-ND	9.84	7.49	MEC1-160-02-S-D-A

SULLINS Edgecard Connectors

Bi-Level — High Temperature 150°C

Specifications: • Operating Temperature: -65°C ~ 150°C **• Insulator:** PPS/Beryllium Copper **• Contacts:** Selective gold **• Contact Plating:** Nickel underplate **• UL File Number:** E64287, UL94V-0 Approved **• Termination Plating:** Tin

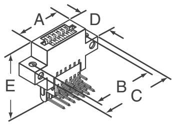

Pos./ Cont.	Dimensions — Inches A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Right Angle, .100" Contact Centers										
10	0.810	1.125	1.385	.250	1.195	S7155-ND	23.63	18.75	13.13	ACB10DKBS
12	0.910	1.225	1.485	.250	1.195	S7156-ND	28.35	22.50	15.75	ACB12DKBS
24	1.510	1.825	2.085	.250	1.195	S7157-ND	56.70	45.00	31.50	ACB24DKBS
30	1.810	2.125	2.385	.250	1.195	S7158-ND	70.88	56.25	39.38	ACB30DKBS
36	2.110	2.425	2.685	.250	1.195	S7160-ND	85.05	67.50	47.25	ACB36DKBS
40	2.310	2.625	2.885	.250	1.195	S7161-ND	94.50	75.00	52.50	ACB40DKBS
44	2.510	2.825	3.085	.250	1.195	S7162-ND	103.95	82.50	57.75	ACB44DKBS
50	2.810	3.125	3.385	.250	1.195	S7163-ND	118.13	93.75	65.63	ACB50DKBS
56	3.110	3.425	3.685	.250	1.195	S7164-ND	132.30	105.00	73.50	ACB56DKBS
62	3.410	3.725	3.985	.250	1.195	S7166-ND	146.48	116.25	81.38	ACB62DKBS
72	3.910	4.225	4.485	.250	1.195	S7167-ND	170.10	135.00	94.50	ACB72DKBS
80	4.310	4.625	4.885	.250	1.195	S7168-ND	189.00	150.00	105.00	ACB80DKBS
86	4.610	4.925	5.185	.250	1.195	S7169-ND	203.18	161.25	112.88	ACB86DKBS
90	4.810	5.125	5.385	.250	1.195	S7170-ND	212.63	168.75	118.13	ACB90DKBS
90	4.810	5.125	5.385	.250	1.195	S7171-ND	212.63	168.75	118.13	ACB90DKBS-S1075

Press Fit

Specifications:

- **Operating Temperature:** -65°C ~ 125°C
- **Insulator:** PBT/Phosphor Bronze
- **Contacts:** Selective gold
- **Contact Plating:** Nickel underplate
- **UL File Number:** E64287, UL94V-0 Approved
- **Termination Plating:** Tin

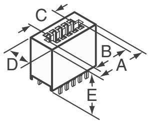

Pos./ Cont.	Dimensions — Inches A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Low Profile, .025" Square Post, .200" Row Spacing										
5/10	0.756	0.600	0.400	.370	.550	S7264-ND	3.97	3.15	2.21	ECC05DJBN
6/12	0.856	0.700	0.500	.370	.550	S7265-ND	4.19	3.33	2.33	ECC06DJBN
15/30	1.756	1.600	1.400	.370	.550	S7268-ND	6.43	5.10	3.57	ECC15DJBN
18/36	2.056	1.900	1.700	.370	.550	S7269-ND	7.12	5.65	3.96	ECC18DJBN
20/40	2.256	2.100	1.900	.370	.550	S7270-ND	7.53	5.98	4.19	ECC20DJBN
22/44	2.456	2.300	2.100	.370	.550	S7271-ND	8.00	6.35	4.45	ECC22DJBN
25/50	2.756	2.600	2.400	.370	.550	S7272-ND	8.69	6.90	4.83	ECC25DJBN
28/56	3.056	2.900	2.700	.370	.550	S7273-ND	9.36	7.43	5.20	ECC28DJBN
30/60	3.256	3.100	2.900	.370	.550	S7274-ND	9.77	7.75	5.43	ECC30DJBN
35/70	3.756	3.600	3.400	.370	.550	S7275-ND	10.93	8.68	6.08	ECC35DJBN
36/72	3.856	3.700	3.500	.370	.550	S7276-ND	11.15	8.85	6.20	ECC36DJBN
40/80	4.256	4.100	3.900	.370	.550	S7277-ND	12.03	9.55	6.69	ECC40DJBN
43/86	4.556	4.400	4.200	.370	.550	S7278-ND	12.73	10.10	7.07	ECC43DJBN
50/100	5.256	5.100	4.900	.370	.550	S7279-ND	14.62	11.60	8.12	ECC50DJBN
60/120	6.256	6.100	5.900	.370	.550	S7280-ND	16.88	13.40	9.38	ECC60DJBN
High Profile, .025" Square Post, .200" Row Spacing										
5/10	0.756	0.600	0.400	.370	.610	S7247-ND	3.97	3.15	2.21	ECC05DJWN
6/12	0.856	0.700	0.500	.370	.610	S7248-ND	4.19	3.33	2.33	ECC06DJWN
10/20	1.256	1.100	0.900	.370	.610	S7249-ND	5.26	4.18	2.93	ECC10DJWN
15/30	1.756	1.600	1.400	.370	.610	S7251-ND	6.43	5.10	3.57	ECC15DJWN
18/36	2.056	1.900	1.700	.370	.610	S7252-ND	7.12	5.65	3.96	ECC18DJWN
20/40	2.256	2.100	1.900	.370	.610	S7253-ND	7.53	5.98	4.19	ECC20DJWN
22/44	2.456	2.300	2.100	.370	.610	S7254-ND	8.00	6.35	4.45	ECC22DJWN
25/50	2.756	2.600	2.400	.370	.610	S7255-ND	8.69	6.90	4.83	ECC25DJWN
28/56	3.056	2.900	2.700	.370	.610	S7256-ND	9.36	7.43	5.20	ECC28DJWN
30/60	3.256	3.100	2.900	.370	.610	S7257-ND	9.77	7.75	5.43	ECC30DJWN
35/70	3.756	3.600	3.400	.370	.610	S7258-ND	10.93	8.68	6.08	ECC35DJWN
36/72	3.856	3.700	3.500	.370	.610	S7259-ND	11.15	8.85	6.20	ECC36DJWN
40/80	4.256	4.100	3.900	.370	.610	S7260-ND	12.03	9.55	6.69	ECC40DJWN
43/86	4.556	4.400	4.200	.370	.610	S7261-ND	12.73	10.10	7.07	ECC43DJWN
50/100	5.256	5.100	4.900	.370	.610	S7262-ND	14.62	11.60	8.12	ECC50DJWN
60/120	6.256	6.100	5.900	.370	.610	S7263-ND	16.88	13.40	9.38	ECC60DJWN

Straight

Materials:

• Insulator: Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050" spacing parts, it will be "PPS" and for all others it will be "PBT" **• Contacts:** Phosphor Bronze (Standard) **• Contact Plating:** Gold over Nickel **• UL File Number:** E64287 **• Termination Plating:** Tin

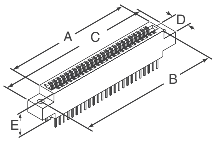

Fig. 1 — Staggered Dip

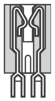

Fig. 2 — Dip Solder

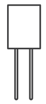

Fig. 3 — Eyelet

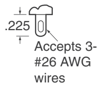

Fig. 4 — Surface Mount

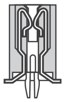

Fig. 5 — Card Extender

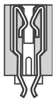

Pos./ Cont.	Dimensions — Inches A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
High Profile										
Fig. 1 — Peripheral Component Interconnect (PCI) .050" Contact Centers										
42/49	4.890	5.176	5.490	.370	.610	S09119-578-ND	16.38	13.00	9.10	RZB91DCHN-S578
Fig. 1 — 1mm Contact Centers										
15/30	0.901	1.187	1.501	.370	.610	S3151-ND	15.97	12.68	7.61	RZE15DHHN
20/40	1.098	1.384	1.698	.370	.610	S3152-ND	17.14	13.60	8.16	RZE20DHHN
25/50	1.295	1.581	1.895	.370	.610	S3153-ND	18.43	14.63	8.78	RZE25DHHN
30/60	1.492	1.778	2.092	.370	.610	S3154-ND	19.72	15.65	9.39	RZE30DHHN
35/70	1.689	1.975	2.289	.370	.610	S3155-ND	21.01	16.68	10.01	RZE35DHHN
45/90	2.082	2.368	2.682	.370	.610	S3157-ND	23.50	18.65	11.19	RZE45DHHN
50/100	2.279	2.565	2.879	.370	.610	S3158-ND	24.79	19.68	11.81	RZE50DHHN
Fig. 1 — .050" High Speed										
73/219	—	—	4.250	.465	.613	S3282-ND	20.85	16.55	9.93	RPWB073GKHR-T621
80/240	—	—	4.600	.465	.613	S3283-ND	26.05	20.68	12.41	RPWB080GKHR-T621
90/270	—	—	5.100	.465	.613	S3284-ND	36.92	29.30	17.58	RPWB090GKHR-T621
100/300	—	—	5.600	.465	.613	S3285-ND	49.23	39.08	23.45	RPWB110GKHR-T621
Fig. 1 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3364-ND◆	7.62	6.05	4.24	RBB06DHHN
10/20	0.740	1.026	1.340	.370	.610	S3371-ND◆	8.47	6.73	4.04	RBB10DHHN
13/26	0.890	1.176	1.490	.370	.610	S3120-ND	11.25	8.93	5.36	RZB13DHHN
13/26	0.890	1.176	1.490	.370	.610	S3373-ND◆	9.20	7.30	4.38	RBB13DHHN
15/30	0.990	1.276	1.590	.370	.610	S3121-ND	11.53	9.15	5.49	RZB15DHHN
15/30	0.990	1.276	1.590	.370	.610	S3375-ND◆	9.61	7.63	4.58	RBB15DHHN
20/40	1.240	1.526	1.840	.370	.610	S3378-ND◆	10.77	8.55	5.13	RBB20DHHN
22/44	1.340	1.626	1.940	.370	.610	S3123-ND	12.35	9.80	5.88	RZB22DHHN
25/50	1.490	1.776	2.090	.370	.610	S3380-ND◆	11.97	9.50	5.70	RBB25DHHN
30/60	1.740	2.026	2.340	.370	.610	S3383-ND◆	13.04	10.35	6.21	RBB30DHHN
34/68	1.940	2.226	2.540	.370	.610	S3126-ND	13.80	10.95	6.57	RZB34DHHN
34/68	1.940	2.226	2.540	.370	.610	S3386-ND◆	13.95	11.08	6.65	RBB34DHHN
35/70	1.990	2.276	2.590	.370	.610	S3127-ND	13.89	11.03	6.62	RZB35DHHN
35/70	1.990	2.276	2.590	.370	.610	S3388-ND◆	14.18	11.25	6.75	RBB35DHHN
40/80	2.240	2.526	2.840	.370	.610	S3389-ND◆	15.34	12.18	7.31	RBB40DHHN
45/90	2.490	2.776	3.090	.370	.610	S3129-ND	15.03	11.93	7.16	RZB45DHHN
45/90	2.490	2.776	3.090	.370	.610	S3391-ND◆	16.51	13.10	7.86	RBB45DHHN
50/100	2.740	3.026	3.340	.370	.610	S3130-ND	15.66	12.43	7.46	RZB50DHHN
60/120	3.240	3.526	3.840	.370	.610	S3394-ND◆	19.88	15.78	9.47	RBB60DHHN
64/128	3.440	3.726	4.040	.370	.610	S3397-ND◆	20.82	16.53	9.92	RBB64DHHN
75/150	3.990	4.276	4.590	.370	.610	S3133-ND	18.62	14.78	8.87	RZB75DHHN
75/150	3.990	4.276	4.590	.370	.610	S3399-ND◆	23.34	18.53	11.12	RBB75DHHN
80/160	4.240	4.526	4.840	.370	.610	S3400-ND◆	24.51	19.45	11.67	RBB80DHHN
85/170	4.490	4.776	5.090	.370	.610	S3135-ND	19.85	15.75	9.45	RZB85DHHN
95/190	4.990	5.276	5.590	.370	.610	S3136-ND	20.98	16.65	9.99	RZB95DHHN
100/200	5.240	5.526	5.840	.370	.610	S3137-ND	21.58	17.13	10.28	RZB100DHHN
100/200	5.240	5.526	5.840	.370	.610	S3366-ND◆	37.11	29.45	17.67	RBB100DHHN
105/210	5.490	5.776	6.090	.370	.610	S3138-ND	22.18	17.60	10.56	RZB105DHHN
108/216	5.640	5.926	6.240	.370	.610	S3139-ND	22.49	17.85	10.71	RZB108DHHN
110/220	5.740	6.026	6.340	.370	.610	S3140-ND	22.81	18.10	10.86	RZB110DHHN
120/240	6.240	6.526	6.840	.370	.610	S3141-ND	24.03	19.08	11.45	RZB120DHHN
Fig. 1 — High Temperature, 150°C, .050" Contact Centers — RoHS Compliant										
10/20	0.740	1.026	1.340	.370	.610	S7140-ND	10.43	8.28	5.80	ACB10DHHD
35/70	1.990	2.276	2.590	.370	.610	S7141-ND	20.98	16.65	11.66	ACB35DHHD
40/80	2.240	2.526	2.840	.370	.610	S7142-ND	23.12	18.35	12.85	ACB40DHHD
60/120	3.240	3.526	3.840	.370	.610	S7143-ND	31.56	25.05	17.54	ACB60DHHD
80/160	4.240	4.526	4.840	.370	.610	S7144-ND	40.07	31.80	22.26	ACB80DHHD
105/210	5.490	5.776	6.090	.370	.610	S7145-ND	50.65	40.20	28.14	ACB105DHHD
106/212	5.740	6.026	6.340	.370	.610	S7146-ND	51.03	40.50	28.35	ACB106DHHD-S621
Fig. 2 — High Temperature, 150°C, .093" PCB, .100" Contact Centers — RoHS Compliant										
30/60	3.260	3.575	3.835	.400	.610	S7177-ND	34.27	27.20	19.04	ACC30DKMH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7176-ND	61.49	48.80	34.16	ACC70DKMH-S1191
30/60	3.260	3.575	3.835	.400	.610	S7175-ND	34.27	27.20	19.04	ACC30DKSH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7174-ND	61.49	48.80	34.16	ACC70DKSH-S1191
Fig. 2 — .200" Row Spacing, .100" Contact Centers — RoHS Compliant										
6/12	0.860	1.175	1.435	.370	.610	S3293-ND	3.06	2.43	1.70	EBC06DCWN
10/20	1.260	1.575	1.835	.370	.610	S3299-ND	3.84	3.05	2.14	EBC10DCWN
12/24	1.460	1.775	2.035	.370	.610	S3304-ND	4.19	3.33	2.33	EBC12DCWN
15/30	1.760	2.075	2.335	.370	.610	S3305-ND	4.63	3.68	2.58	EBC15DCWN
18/36	2.060	2.375	2.635	.370	.610	S3310-ND	5.07	4.03	2.82	EBC18DCWN-S371
25/50	2.760	3.075	3.335	.370	.610	S3320-ND	6.11	4.85	3.40	EBC25DCWN
25/50	2.760	3.075	3.335	.370	.610	S3319-ND	6.11	4.85	3.40	EBC25DCWH
10/20	1.260	1.575	1.835	.370	.610	S3298-ND★	4.50	3.58	2.51	EBC10DCMH
Fig. 2 — .250" Row Spacing, .125" Contact Centers — RoHS Compliant										
50/100	6.535	6.795	7.055	.370	.610	S3288-ND	15.40	12.23	8.56	EBA50DCSD
Fig. 2 — .200" Row Spacing, .156" Contact Centers — RoHS Compliant										
6/12	1.221	1.534	1.784	.370	.610	S3332-ND	4.19	3.33	2.33	EBM06DCWN
22/44	3.717	4.030	4.280	.370	.610	S3349-ND	7.12	5.65	3.96	EBM22DCWH
36/72	5.901	6.214	6.464	.370	.610	S3359-ND	9.95	7.90	5.53	EBM36DCWN
43/86	6.993	7.306	7.556	.370	.610	S3362-ND	12.35	9.80	6.86	EBM43DCTN
Fig. 4 — 1mm Contact Centers										
10/20	0.704	0.990	1.304	.370	.610	S3233-ND	14.68	11.65	6.99	RZE10DHFR
15/30	0.901	1.187	1.501	.370	.610	S3234-ND	15.97	12.68	7.61	RZE15DHFR
20/40	1.098	1.384	1.698	.370	.610	S3235-ND	17.14	13.60	8.16	RZE20DHFR
25/50	1.295	1.581	1.895	.370	.610	S3236-ND	18.43	14.63	8.78	RZE25DHFR
30/60	1.492	1.778	2.092	.370	.610	S3237-ND	19.72	15.65	9.39	RZE30DHFR
35/70	1.689	1.975	2.289	.370	.610	S3238-ND	21.01	16.68	10.01	RZE35DHFR
40/80	1.885	2.171	2.485	.370	.610	S3239-ND	22.30	17.70	10.62	RZE40DHFR
45/90	2.082	2.368	2.682	.370	.610	S3240-ND	23.50	18.65	11.19	RZE45DHFR
50/100	2.279	2.565	2.879	.370	.610	S3241-ND	24.79	19.68	11.81	RZE50DHFR
Fig. 4 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3363-ND◆	12.88	10.23	6.14	RBB06DHFR
10/20	0.740	1.026	1.340	.370	.610	S3370-ND◆	13.70	10.88	6.53	RBB10DHFR
13/26	0.890	1.176	1.490	.370	.610	S3206-ND	11.25	8.93	5.36	RZB13DHFR
15/30	0.990	1.276	1.590	.370	.610	S3207-ND	11.53	9.15	5.49	RZB15DHFR
15/30	0.990	1.276	1.590	.370	.610	S3374-ND◆	14.77	11.73	7.04	RBB15DHFR
20/40	1.240	1.526	1.840	.370	.610	S3208-ND	12.06	9.58	5.75	RZB20DHFR
22/44	1.340	1.626	1.940	.370	.610	S3209-ND	12.35	9.80	5.88	RZB22DHFR
25/50	1.490	1.776	2.090	.370	.610	S3379-ND◆	16.92	13.43	8.06	RBB25DHFR
30/60	1.740	2.026	2.340	.370	.610	S3382-ND◆	17.92	14.23	8.54	RBB30DHFR
34/68	1.940	2.226	2.540	.370	.610	S3212-ND	13.80	10.95	6.57	RZB34DHFR
35/70	1.990	2.276	2.590	.370	.610	S3213-ND	13.89	11.03	6.62	RZB35DHFR
35/70	1.990	2.276	2.590	.370	.610	S3387-ND◆	18.99	15.08	9.05	RBB35DHFR
40/80	2.240	2.526	2.840	.370	.610	S3214-ND	14.52	11.53	6.92	RZB40DHFR
45/90	2.490	2.776	3.090	.370	.610	S3215-ND	15.03	11.93	7.16	RZB45DHFR
50/100	2.740	3.026	3.340	.370	.610	S3216-ND	15.66	12.43	7.46	RZB50DHFR
60/120	3.240	3.526	3.840	.370	.610	S3217-ND	16.85	13.38	8.03	RZB60DHFR

◆ ***RoHS Compliant*** § Card Extender ★ Wire Wrap

(Continued)

SULLINS
CONNECTOR SOLUTIONS

Edgecard Connectors — Straight *(Cont.)*

Pos./ Cont.	Dimensions — Inches					Digi-Key Part No.	Price Each			Sullins Part No.
	A	B	C	D	E		1	10	100	
64/128	3.440	3.726	4.040	.370	.610	S3218-ND	17.29	13.73	8.24	RZB64DHFR
64/128	3.440	3.726	4.040	.370	.610	S3396-ND◆	25.17	19.98	11.99	RBB64DHFR
75/150	3.990	4.276	4.590	.370	.610	S3219-ND	18.62	14.78	8.87	RZB75DHFR
80/160	4.240	4.526	4.840	.370	.610	S3220-ND	19.22	15.25	9.15	RZB80DHFR
85/170	4.490	4.776	5.090	.370	.610	S3221-ND	19.85	15.75	9.45	RZB85DHFR
95/190	4.990	5.276	5.590	.370	.610	S3222-ND	20.98	16.65	9.99	RZB95DHFR
100/200	5.240	5.526	5.840	.370	.610	S3223-ND	21.58	17.13	10.28	RZB100DHFR
105/210	5.490	5.776	6.090	.370	.610	S3224-ND	22.18	17.60	10.56	RZB105DHFR
105/210	5.490	5.776	6.090	.370	.610	S3367-ND◆	33.93	26.93	16.16	RBB105DHFR
108/216	5.640	5.926	6.240	.370	.610	S3225-ND	22.49	17.85	10.71	RZB108DHFR
120/240	6.240	6.526	6.840	.370	.610	S3227-ND	24.03	19.08	11.45	RZB120DHFR
Fig. 5 — 1mm Contact Centers										
10/20	0.704	0.990	1.304	.370	.610	S3194-ND	13.89	11.03	6.62	RZE10DHRN
15/30	0.901	1.187	1.501	.370	.610	S3195-ND	15.18	12.05	7.23	RZE15DHRN
20/40	1.098	1.384	1.698	.370	.610	S3196-ND	16.38	13.00	7.80	RZE20DHRN
25/50	1.295	1.581	1.895	.370	.610	S3197-ND	17.67	14.03	8.42	RZE25DHRN
30/60	1.492	1.778	2.092	.370	.610	S3198-ND	18.96	15.05	9.03	RZE30DHRN
35/70	1.689	1.975	2.289	.370	.610	S3199-ND	20.25	16.08	9.65	RZE35DHRN
45/90	2.082	2.368	2.682	.370	.610	S3201-ND	22.71	18.03	10.82	RZE45DHRN
50/100	2.279	2.565	2.879	.370	.610	S3202-ND	24.03	19.08	11.45	RZE50DHRN
50/100	2.279	2.565	2.879	.370	.610	S3403-ND◆	24.10	19.13	11.48	RBE50DHRN
Fig. 5 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3365-ND◆	7.12	5.65	3.39	RBB06DHRN
10/20	0.740	1.026	1.340	.370	.610	S3372-ND◆	7.97	6.33	3.80	RBB10DHRN
13/26	0.890	1.176	1.490	.370	.610	S3166-ND	10.65	8.45	5.07	RZB13DHRN
15/30	0.990	1.276	1.590	.370	.610	S3376-ND◆	9.14	7.25	4.35	RBB15DHRN
25/50	1.490	1.776	2.090	.370	.610	S3381-ND◆	11.43	9.08	5.45	RBB25DHRN
30/60	1.740	2.026	2.340	.370	.610	S3171-ND	12.69	10.08	6.05	RZB30DHRN
30/60	1.740	2.026	2.340	.370	.610	S3384-ND◆	12.54	9.95	5.97	RBB30DHRN
34/68	1.940	2.226	2.540	.370	.610	S3172-ND	13.20	10.48	6.29	RZB34DHRN
35/70	1.990	2.276	2.590	.370	.610	S3173-ND	13.32	10.58	6.35	RZB35DHRN
40/80	2.240	2.526	2.840	.370	.610	S3174-ND	13.92	11.05	6.63	RZB40DHRN
40/80	2.240	2.526	2.840	.370	.610	S3390-ND◆	14.84	11.78	7.07	RBB40DHRN
45/90	2.490	2.776	3.090	.370	.610	S3175-ND	14.46	11.48	6.89	RZB45DHRN
50/100	2.740	3.026	3.340	.370	.610	S3176-ND	15.06	11.95	7.17	RZB50DHRN
60/120	3.240	3.526	3.840	.370	.610	S3177-ND	16.29	12.93	7.76	RZB60DHRN
64/128	3.440	3.726	4.040	.370	.610	S3398-ND◆	20.35	16.15	9.69	RBB64DHRN
75/150	3.990	4.276	4.590	.370	.610	S3179-ND	18.02	14.30	8.58	RZB75DHRN
80/160	4.240	4.526	4.840	.370	.610	S3180-ND	18.65	14.80	8.88	RZB80DHRN
85/170	4.490	4.776	5.090	.370	.610	S3181-ND	19.25	15.28	9.17	RZB85DHRN
85/170	4.490	4.776	5.090	.370	.610	S3401-ND◆	25.11	19.93	11.96	RBB85DHRN
95/190	4.990	5.276	5.590	.370	.610	S3182-ND	20.38	16.18	9.71	RZB95DHRN
100/200	5.240	5.526	5.840	.370	.610	S3183-ND	20.98	16.65	9.99	RZB100DHRN
105/210	5.490	5.776	6.090	.370	.610	S3184-ND	21.61	17.15	10.29	RZB105DHRN
105/210	5.490	5.776	6.090	.370	.610	S3368-ND◆	29.70	23.58	14.15	RBB105DHRN
108/216	5.640	5.926	6.240	.370	.610	S3185-ND	21.92	17.40	10.44	RZB108DHRN
110/220	5.740	6.026	6.340	.370	.610	S3186-ND	22.21	17.63	10.58	RZB110DHRN
120/240	6.240	6.526	6.840	.370	.610	S3187-ND	23.44	18.60	11.16	RZB120DHRN
Fig. 5 — High Temperature, 150°C, .050" Contact Centers — RoHS Compliant										
10/20	0.740	1.026	1.340	.370	.610	S7147-ND	9.92	7.88	5.52	ACB10DHRD
35/70	1.990	2.276	2.590	.370	.610	S7148-ND	20.48	16.25	11.38	ACB35DHRD
60/120	3.240	3.526	3.840	.370	.610	S7149-ND	31.06	24.65	17.26	ACB60DHRD
85/170	4.490	4.776	5.090	.370	.610	S7150-ND	41.61	33.03	23.12	ACB85DHRD
90/180	4.740	5.026	5.340	.370	.610	S7151-ND	43.72	34.70	24.29	ACB90DHRD
91/182	4.890	5.176	5.490	.370	.610	S7152-ND	44.16	35.05	24.54	ACB91DHRD-S621
92/184	5.040	5.326	5.640	.370	.610	S7153-ND	44.64	35.43	24.80	ACB92DHRD-S329
106/212	5.740	6.026	6.340	.370	.610	S7154-ND	50.53	40.10	28.07	ACB106DHRD-S621
Fig. 5 — High Temperature, 150°C, .093" PCB, .100" Contact Centers — RoHS Compliant										
30/60	3.260	3.575	3.835	.400	.610	S7181-ND	35.56	28.23	19.76	ACC30DKRH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7180-ND	62.75	49.80	34.86	ACC70DKRH-S1191
30/60	3.260	3.575	3.835	.400	.610	S7179-ND	35.56	28.23	19.76	ACC30DKNH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7178-ND	62.75	49.80	34.86	ACC70DKNH-S1191
Micro Channel Architecture (MCA) Dual .050" Contact Centers — RoHS Compliant										
60/120	3.240	3.526	3.840	.370	.610	S3392-ND	32.51	25.80	15.48	RBB60DHAS-S621
60/120	3.240	3.526	3.840	.370	.610	S3393-ND	24.32	19.30	11.58	RBB60DHFR-S621
60/120	3.240	3.526	3.840	.370	.610	S3395-ND	19.37	15.38	9.23	RBB60DHRN-S578
Peripheral Component Interconnect (PCI) Dual .050" Contact Centers										
92/184	5.040	5.326	5.640	.370	.610	S3267-ND	51.85	41.15	24.69	RZB92DHAS-S250
92/184	5.040	—	—	.370	.610	S3229-ND	20.66	16.40	9.84	RZB92DHFR-S250
92/184	5.040	—	—	.350	.559	S3270-ND	6.77	5.38	3.23	TRWB092DKAN-T250
92/184	5.040	5.326	5.640	.370	.610	S3268-ND	51.85	41.15	24.69	RZB92DHAS-S329
92/184	5.040	—	—	.370	.610	S3230-ND	20.66	16.40	9.84	RZB92DHFR-S329
92/184	5.040	—	—	.350	.559	S3271-ND	6.77	5.38	3.23	TRWB092DKAN-T329
92/184	5.040	—	—	.370	.610	S3189-ND	20.07	15.93	9.56	RZB92DHRN-S378
92/184	5.040	—	—	.350	.610	S3145-ND	5.99	4.75	2.85	TRWB092DKHN-T378
92/184	5.040	—	—	.350	.551	S3192-ND	7.28	5.78	3.47	RPWB092DKRQ-T378
92/184	5.040	—	—	.350	.610	S3146-ND	3.15	2.50	1.50	TRWB092DKHN-T20
92/184	5.040	—	—	.370	.610	S3190-ND	20.07	15.93	9.56	RZB92DHRN-S330
92/184	5.040	—	—	.350	.610	S3147-ND	5.99	4.75	2.85	TRWB092DKHN-T330
Low Profile										
Fig. 2 — High Temperature, 150°C, .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
17/34	1.975	2.275	2.575	.330	.431	S7191-ND	15.62	12.40	8.68	ACC17DRTH
18/36	2.075	2.375	2.675	.330	.431	S7192-ND	16.35	12.98	9.09	ACC18DRTH
18/36	2.075	2.375	2.675	.330	.431	S7218-ND§	17.36	13.78	9.65	ACC18DRTH-S13
28/56	3.075	3.375	3.675	.330	.431	S7193-ND	23.28	18.48	12.94	ACC28DRTH
28/56	3.075	3.375	3.675	.330	.431	S7219-ND§	24.29	19.28	13.50	ACC28DRTH-S13
31/62	3.375	3.675	3.975	.330	.431	S7194-ND	25.58	20.30	14.21	ACC31DRTH
50/100	5.275	5.575	5.875	.400	.431	S7195-ND	38.56	30.60	21.42	ACC50DRTH
60/120	6.275	6.575	6.875	.400	.431	S7220-ND§	46.40	36.83	25.78	ACC60DRTH-S13
Fig. 2 — High Temperature, 150°C, .200" Row Spacing, .100" Contact Centers — RoHS Compliant										
15/30	1.775	2.075	2.375	.330	.431	S7197-ND	14.05	11.15	7.81	ACC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S7198-ND	16.16	12.83	8.98	ACC18DRXH
30/60	3.275	3.575	3.875	.330	.431	S7199-ND	24.35	19.33	13.53	ACC30DRXH
36/72	3.875	4.175	4.475	.400	.431	S7200-ND	28.73	22.80	15.96	ACC36DRXH
50/100	5.275	5.575	5.875	.400	.431	S7201-ND	38.30	30.40	21.28	ACC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S7202-ND	45.11	35.80	25.06	ACC60DRXH
Fig. 2 — High Temperature, 150°C, .200" Row Spacing, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7207-ND	14.49	11.50	8.05	ACM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S7208-ND	16.51	13.10	9.17	ACM18DRXH
Fig. 2 — High Temperature, 150°C, .140" Row Spacing, .156" Contact Centers — RoHS Compliant										
22/44	3.716	4.029	4.371	.325	.431	S7205-ND	18.55	14.73	10.31	ACM22DRKH
36/72	5.900	6.213	6.555	.438	.431	S7206-ND	27.97	22.20	15.54	ACM36DRKH
36/72	5.900	6.213	6.555	.438	.431	S7221-ND§	29.23	23.20	16.24	ACM36DRKH-S13
Fig. 2 — High Temperature, 200°C, .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
6/12	0.875	1.175	1.475	.330	.431	S7231-ND	17.36	13.78	9.65	FMC06DRYH
10/20	1.275	1.575	1.875	.330	.431	S7232-ND	25.42	20.18	14.13	FMC10DRYH
13/26	1.575	1.875	2.175	.330	.431	S7233-ND	31.41	24.93	17.45	FMC13DRYH
18/36	2.075	2.375	2.675	.330	.431	S7234-ND	41.58	33.00	23.10	FMC18DRYH
50/100	5.275	5.575	5.875	.400	.431	S7235-ND	106.31	84.38	59.07	FMC50DRYH
50/100	5.275	5.575	5.875	.400	.431	S7245-ND§	107.67	85.45	59.82	FMC50DRYH-S13
Fig. 2 — .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3291-ND	3.75	2.98	2.09	EBC05DRTH
10/20	1.275	1.575	1.875	.330	.431	S3302-ND	4.79	3.80	2.66	EBC10DRTH
15/30	1.775	2.075	2.375	.330	.431	S3308-ND	5.76	4.58	3.21	EBC15DRTH
20/40	2.275	2.575	2.875	.330	.431	S3314-ND	6.80	5.40	3.78	EBC20DRTH
Fig. 2 — .200" Row Spacing, .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3292-ND◆	3.59	2.85	2.00	EBC05DRXH
6/12	0.875	1.175	1.475	.330	.431	S1064-ND	2.93	2.33	1.63	EZC06DRXH
6/12	0.875	1.175	1.475	.330	.431	S3296-ND◆	3.75	2.98	2.09	EBC06DRXH
10/20	1.275	1.575	1.875	.330	.431	S3303-ND◆	4.60	3.65	2.56	EBC10DRXH
15/30	1.775	2.075	2.375	.330	.431	S3309-ND◆	5.54	4.40	3.08	EBC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S3313-ND◆	6.11	4.85	3.40	EBC18DRXH
20/40	2.275	2.575	2.875	.330	.431	S3315-ND◆	6.58	5.23	3.66	EBC20DRXH
22/44	2.475	2.775	3.075	.330	.431	S3318-ND◆	6.90	5.48	3.84	EBC22DRXH
25/50	2.775	3.075	3.375	.330	.431	S3322-ND◆	7.53	5.98	4.19	EBC25DRXH
30/60	3.275	3.575	3.875	.330	.431	S3323-ND◆	8.47	6.73	4.71	EBC30DRXH
36/72	3.875	4.175	4.475	.400	.431	S3326-ND◆	9.77	7.75	5.43	EBC36DRXH
40/80	4.275	4.575	4.875	.400	.431	S3327-ND◆	10.55	8.38	5.87	EBC40DRXH
50/100	5.275	5.575	5.875	.400	.431	S3330-ND◆	12.47	9.90	6.93	EBC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S3331-ND◆	14.33	11.38	7.97	EBC60DRXH
Fig. 2 — .250" Row Spacing, .125" Contact Centers — RoHS Compliant										
28/56	3.785	4.045	4.325	.330	.431	S3287-ND	8.44	6.70	4.69	EBA28DRJH
Fig. 2 — .140" Row Spacing, .156" Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3334-ND	4.60	3.65	2.56	EBM06DRTH
10/20	1.844	2.157	2.499	.325	.431	S3338-ND	5.54	4.40	3.08	EBM10DRTH
22/44	3.716	4.029	4.371	.325	.431	S3352-ND	8.22	6.53	4.57	EBM22DRTH
28/56	4.652	4.965	5.307	.438	.431	S3357-ND	9.92	7.88	5.52	EBM28DRTH
Fig. 2 — .200" Row Spacing, .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5064-ND	3.84	3.05	2.14	EZM06DRXH
6/12	1.220	1.533	1.875	.325	.431	S3335-ND◆	4.28	3.40	2.38	EBM06DRXH
10/20	1.844	2.157	2.499	.325	.431	S3339-ND◆	5.13	4.08	2.86	EBM10DRXH
12/24	2.156	2.469	2.811	.325	.431	S3342-ND◆	5.58	4.43	3.10	EBM12DRXH
15/30	2.624	2.937	3.279	.325	.431	S3344-ND◆	6.11	4.85	3.40	EBM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S3347-ND◆	6.74	5.35	3.75	EBM18DRXH
22/44	3.716	4.029	4.371	.325	.431	S3353-ND◆	7.53	5.98	4.19	EBM22DRXH
25/50	4.184	4.497	4.839	.325	.431	S3355-ND◆	8.22	6.53	4.57	EBM25DRXH
28/56	4.652	4.965	5.307	.438	.431	S3358-ND◆	9.10	7.23	5.06	EBM28DRXH
36/72	5.900	6.213	6.555	.438	.431	S3361-ND◆	10.74	8.53	5.97	EBM36DRXH
Fig. 3 — High Temperature, 150°C, .100" Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7186-ND	15.69	12.45	8.72	ACC18DREH
18/36	2.075	2.375	2.675	.330	.431	S7213-ND§	16.73	13.28	9.30	ACC18DREH-S13
22/44	2.475	2.775	3.075	.330	.431	S7187-ND	18.33	14.55	10.19	ACC22DREH
28/56	3.075	3.375	3.675	.330	.431	S7214-ND§	23.28	18.48	12.94	ACC28DREH-S13
30/60	3.275	3.575	3.875	.330	.431	S7188-ND	23.47	18.63	13.04	ACC30DREH
40/80	4.275	4.575	4.875	.400	.431	S7189-ND	30.21	23.98	16.79	ACC40DREH
43/86	4.575	4.875	5.175	.400	.431	S7190-ND	32.22	25.58	17.91	ACC43DREH
43/86	4.575	4.875	5.175	.400	.431	S7215-ND§	33.23	26.38	18.47	ACC43DREH-S13
50/100	5.275	5.575	5.875	.400	.431	S7216-ND§	37.74	29.95	20.97	ACC50DREH-S13
60/120	6.275	6.575	6.875	.400	.431	S7217-ND§	44.23	35.10	24.57	ACC60DREH-S13
Fig. 3 — High Temperature, 150°C, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7209-ND	14.87	11.80	8.26	ACM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S7210-ND	16.85	13.38	9.37	ACM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S7211-ND	19.50	15.48	10.84	ACM22DSEH
36/72	5.900	6.213	6.555	.438	.431	S7212-ND	29.52	23.43	16.40	ACM36DSEH
36/72	5.900	6.213	6.555	.438	.431	S7222-ND§	30.78	24.43	17.10	ACM36DSEH-S13
Fig. 3 — High Temperature, 200°C, .100" Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7226-ND	56.79	45.08	31.56	FMC18DREH
22/44	2.475	2.775	3.075	.330	.431	S7227-ND	68.23	54.15	37.91	FMC22DREH
25/50	2.775	3.075	3.375	.330	.431	S7228-ND	76.77	60.93	42.65	FMC25DREH
35/70	3.775	4.075	4.375	.400	.431	S7229-ND	105.65	83.85	58.70	FMC35DREH
35/70	3.775	4.075	4.375	.400	.431	S7242-ND§	107.04	84.95	59.47	FMC35DREN-S13
43/86	4.575	4.875	5.175	.400	.431	S7243-ND§	129.91	103.10	72.17	FMC43DREH-S13
44/88	4.675	4.975	5.275	.400	.431	S7230-ND	131.39	104.28	73.00	FMC44DREH
60/120	6.275	6.575	6.875	.400	.431	S7244-ND§	178.45	141.63	99.14	FMC60DREH-S13
Fig. 3 — High Temperature, 200°C, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7236-ND	27.69	21.98	15.39	FMM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S7237-ND	31.63	25.10	17.57	FMM18DSEH
18/36	3.092	3.405	3.747	.325	.431	S7246-ND§	33.20	26.35	18.45	FMM18DSEH-S13
22/44	3.716	4.029	4.371	.325	.431	S7238-ND	36.82	29.23	20.46	FMM22DSEH
28/56	4.652	4.965	5.307	.438	.431	S7239-ND	45.74	36.30	25.41	FMM28DSEH
36/72	5.900	6.213	6.555	.438	.431	S7240-ND	56.23	44.63	31.24	FMM36DSEH
43/86	6.992	7.305	7.647	.500	.431	S7241-ND	66.09	52.45	36.72	FMM43DSEH
Fig. 3 — .100" Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3290-ND	3.78	3.00	2.10	EBC05DREH
6/12	0.875	1.175	1.475	.330	.431	S3295-ND	4.00	3.18	2.23	EBC06DREH

◆ ***RoHS Compliant*** § Card Extender ★ Wire Wrap

(Continued)

SULLINS Edgecard Connectors — Straight *(Cont.)*

Pos./ Cont.	Dimensions — Inches A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
10/20	1.275	1.575	1.875	.330	.431	S3301-ND	4.88	3.88	2.72	EBC10DREH
15/30	1.775	2.075	2.375	.330	.431	S3307-ND	5.95	4.73	3.31	EBC15DREH
18/36	2.075	2.375	2.675	.330	.431	S3312-ND	6.58	5.23	3.66	EBC18DREH
22/44	2.475	2.775	3.075	.330	.431	S3317-ND	7.40	5.88	4.12	EBC22DREH
25/50	2.775	3.075	3.375	.330	.431	S3321-ND	8.10	6.43	4.50	EBC25DREH
35/70	3.775	4.075	4.375	.400	.431	S3324-ND	10.21	8.10	5.67	EBC35DREH
36/72	3.875	4.175	4.475	.400	.431	S3325-ND	10.52	8.35	5.85	EBC36DREH
Fig. 3 — .156” Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3336-ND	4.60	3.65	2.56	EBM06DSEH
10/20	1.844	2.157	2.499	.325	.431	S3340-ND	5.54	4.40	3.08	EBM10DSEH
15/30	2.624	2.937	3.279	.325	.431	S3345-ND	6.65	5.28	3.70	EBM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S3348-ND	7.34	5.83	4.08	EBM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S3354-ND	8.22	6.53	4.57	EBM22DSEH
Fig. 3 — .156” Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3333-ND	5.10	4.05	2.84	EBM06DREH
10/20	1.844	2.157	2.499	.325	.431	S3337-ND	6.33	5.03	3.52	EBM10DREH
15/30	2.624	2.937	3.279	.325	.431	S3343-ND	7.84	6.23	4.36	EBM15DREH
18/36	3.092	3.405	3.747	.325	.431	S3346-ND	8.79	6.98	4.89	EBM18DREH
22/44	3.716	4.029	4.371	.325	.431	S3351-ND	9.99	7.93	5.55	EBM22DREH
28/56	4.652	4.965	5.307	.438	.431	S3356-ND	12.16	9.65	6.76	EBM28DREH
36/72	5.900	6.213	6.555	.438	.431	S3360-ND	14.62	11.60	8.12	EBM36DREH

◆ ***RoHS Compliant*** § Card Extender ★ Wire Wrap

Accessories

Pos./ Cont.	Description	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Polarizing Keys — RoHS Compliant						
—	Polarizing Key used for Low Profile (.431”)	PLA-K1-ND	—	.10	.07	PLA-K1
—	Polarizing Key used for all other Profiles	PLC-K1-ND	—	.10	.07	PLC-K1
AGP Connector						
90/180	u-AGP-PRO	S3161-ND	2.27	1.80	1.08	TPWE090DKHN-TAGP
66/132	1.0mm AGP Edge Card	S3203-ND	6.11	4.85	2.91	LPWE066DKRN-TAGP
Slot 1 Connector						
121/242	Slot 1 Pin connector	S3162-ND	2.90	2.30	1.38	TPWE121DKHN-T621
AT Expansion Board Connector — RoHS Compliant						
49/98	PCB Expansion Port Edge Card	S3329-ND	10.14	8.05	5.64	EBC49DCWN-S420

Polarizing Keys not available for product with .050 and 1mm contact spacing.

Right Angle

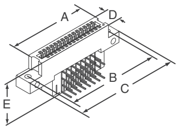

Materials:

- **Insulator:** Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050” spacing parts, it will be “PPS” and for all others it will be “PBT” • **Contacts:** Phosphor Bronze (Standard) • **Contact Plating:** Gold over Nickel • **UL File Number:** E64287
- **Termination Plating:** Tin

Pos./ Cont.	Dimensions — Inches A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
1mm Contact Centers										
5/10	0.157	0.793	1.107	.370	.360	S3272-ND	48.38	38.40	23.04	RZE05DHAS
10/20	0.354	0.990	1.304	.370	.360	S3273-ND	49.80	39.53	23.72	RZE10DHAS
15/30	0.551	1.187	1.501	.370	.360	S3274-ND	51.35	40.75	24.45	RZE15DHAS
20/40	0.748	1.384	1.698	.370	.360	S3275-ND	52.76	41.88	25.13	RZE20DHAS
25/50	0.945	1.581	1.895	.370	.360	S3276-ND	54.31	43.10	25.86	RZE25DHAS
30/60	1.142	1.778	2.092	.370	.360	S3277-ND	55.85	44.33	26.60	RZE30DHAS
35/70	1.465	1.975	2.289	.370	.360	S3278-ND	57.42	45.58	27.35	RZE35DHAS
40/80	1.535	2.171	2.485	.370	.360	S3279-ND	58.97	46.80	28.08	RZE40DHAS
45/90	1.732	2.368	2.682	.370	.360	S3280-ND	60.39	47.93	28.76	RZE45DHAS
50/100	1.929	2.565	2.879	.370	.360	S3281-ND	61.93	49.15	29.49	RZE50DHAS
.100” Row Spacing, .050” Contact Centers										
6/12	0.540	0.826	1.140	.370	.915	S3242-ND	27.56	21.88	13.13	RZB06DHAS
10/20	0.740	1.026	1.340	.370	.915	S3369-ND◆	15.88	12.60	7.56	RBB10DHAS
15/30	0.990	1.276	1.590	.370	.915	S3245-ND	30.05	23.85	14.31	RZB15DHAS
20/40	1.240	1.526	1.840	.370	.915	S3377-ND◆	19.18	15.23	9.14	RBB20DHAS
22/44	1.340	1.626	1.940	.370	.915	S3247-ND	32.00	25.40	15.24	RZB22DHAS
25/50	1.490	1.776	2.090	.370	.915	S3248-ND	32.79	26.03	15.62	RZB25DHAS
30/60	1.740	2.026	2.340	.370	.915	S3249-ND	34.21	27.15	16.29	RZB30DHAS
34/68	1.940	2.226	2.540	.370	.915	S3250-ND	35.37	28.08	16.85	RZB34DHAS
34/68	1.940	2.226	2.540	.370	.915	S3385-ND◆	23.91	18.98	11.39	RBB34DHAS
35/70	1.990	2.276	2.590	.370	.915	S3251-ND	35.63	28.28	16.97	RZB35DHAS
40/80	2.240	2.526	2.840	.370	.915	S3252-ND	37.08	29.43	17.66	RZB40DHAS
45/90	2.490	2.776	3.090	.370	.915	S3253-ND	38.40	30.48	18.29	RZB45DHAS
50/100	2.740	3.026	3.340	.370	.915	S3254-ND	39.82	31.60	18.96	RZB50DHAS
60/120	3.240	3.526	3.840	.370	.915	S3255-ND	42.68	33.88	20.33	RZB60DHAS
64/128	3.440	3.726	4.040	.370	.915	S3256-ND	43.72	34.70	20.82	RZB64DHAS
75/150	3.990	4.276	4.590	.370	.915	S3257-ND	46.84	37.18	22.31	RZB75DHAS
80/160	4.240	4.526	4.840	.370	.915	S3258-ND	48.26	38.30	22.98	RZB80DHAS
85/170	4.490	4.776	5.090	.370	.915	S3259-ND	49.71	39.45	23.67	RZB85DHAS
95/190	4.990	5.276	5.590	.370	.915	S3260-ND	52.45	41.63	24.98	RZB95DHAS
100/200	5.240	5.526	5.840	.370	.915	S3261-ND	53.87	42.75	25.65	RZB100DHAS
105/210	5.490	5.776	6.090	.370	.915	S3262-ND	55.31	43.90	26.34	RZB105DHAS
108/216	5.640	5.926	6.240	.370	.915	S3263-ND	56.20	44.60	26.76	RZB108DHAS
110/220	5.740	6.026	6.340	.370	.915	S3264-ND	56.73	45.03	27.02	RZB110DHAS
120/240	6.240	6.526	6.840	.370	.915	S3265-ND	59.60	47.30	28.38	RZB120DHAN
.150” Row Spacing, .100” Contact Centers — RoHS Compliant										
10/20	1.260	1.575	1.835	.370	.610	S3297-ND	5.36	4.25	2.98	EBC10DCAH
49/98	5.160	5.475	5.735	.370	.610	S3328-ND	17.96	14.25	9.98	EBC49DCAN-S605
High Temperature, 150°C, .100” Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7182-ND	21.01	16.68	11.68	ACC18DRAS
30/60	3.260	3.575	3.835	.400	.610	S7172-ND‡	37.20	29.53	20.67	ACC30DKEH-S1191
50/100	5.275	5.575	5.875	.400	.431	S7184-ND	48.35	38.38	26.87	ACC50DRAS
60/120	6.275	6.575	6.875	.400	.431	S7185-ND	56.76	45.05	31.54	ACC60DRAS
70/140	7.260	7.575	7.835	.400	.610	S7173-ND‡	66.72	52.95	37.07	ACC70DKEH-S1191
High Temperature, 150°C, .156” Contact Centers — RoHS Compliant										
12/24	2.156	2.469	2.811	.325	.431	S7203-ND	14.96	11.88	8.32	ACM12DRAS
18/36	3.092	3.405	3.747	.325	.431	S7204-ND	19.18	15.23	10.66	ACM18DRAS
High Temperature, 200°C, .100” Contact Centers — RoHS Compliant										
22/44	2.475	2.775	3.075	.330	.431	S7223-ND	58.05	46.08	32.26	FMC22DRAS
35/70	3.775	4.075	4.375	.400	.431	S7224-ND	87.95	69.80	48.86	FMC35DRAS
43/86	4.575	4.875	5.175	.400	.431	S7225-ND	106.22	84.30	59.01	FMC43DRAS
.156” Row Spacing, .100” Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3289-ND	5.23	4.15	2.91	EBC05DRAS
6/12	0.875	1.175	1.475	.330	.431	S3294-ND	5.45	4.33	3.03	EBC06DRAS
10/20	1.275	1.575	1.875	.330	.431	S3300-ND	5.62	4.58	3.33	EBC10DRAS
15/30	1.775	2.075	2.375	.330	.431	S3306-ND	7.78	6.18	4.33	EBC15DRAS
18/36	2.075	2.375	2.675	.330	.431	S3311-ND	8.47	6.73	4.71	EBC18DRAS
22/44	2.475	2.775	3.075	.330	.431	S3316-ND	9.51	7.55	5.29	EBC22DRAS
.156” Row Spacing, .156” Contact Centers										
12/24	2.156	2.469	2.811	.325	.431	S5121-ND	7.94	6.30	4.41	EZM12DRAS
12/24	2.156	2.469	2.811	.325	.431	S3341-ND◆	7.81	6.20	4.34	EBM12DRAS
22/44	3.716	4.029	4.371	.325	.431	S3350-ND◆	10.49	8.33	5.83	EBM22DRAS

◆ ***RoHS Compliant*** ‡ .093” PCB

Male Edgecard Connectors and Card Extenders

Materials:

• Insulator: PBT • Contact: Phosphor Bronze • Operating Temperature: -65°C ~ 125°C • Processing Temperature: 260°C for 10 seconds max. • Plating: All platings are lead free and have .000050” nickel underplate • Contact Surface: .000010” Gold • Termination: .000100” pure tin, matte • UL Flammability Rating: 94V-0 • Voltage Rating: 600VDC minimum at sea level • Current Rating: 3A per contact pair • Voltage Drop: 30mV at rated current • Insulation Resistance: 5000MΩ

Fig. 1

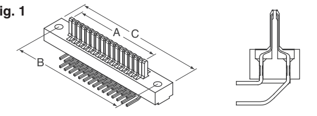

Fig. 2

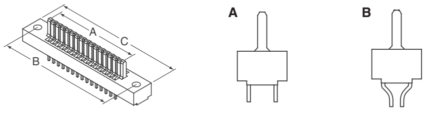

Pos./ Cont.	Dimensions — Inches A	B	C	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Edgecard Connectors								
Fig. 1 — Right Angle, .100								
6/12	0.500	1.175	1.436	S7281-ND	4.47	3.55	2.49	EBC06MMBD
10/20	0.900	1.575	1.836	S7282-ND	5.54	4.40	3.08	EBC10MMBD
12/24	1.100	1.775	2.036	S7283-ND	6.05	4.80	3.36	EBC12MMBD
15/30	1.400	2.075	2.336	S7284-ND	6.74	5.35	3.75	EBC15MMBD
18/36	1.700	2.375	2.636	S7285-ND	7.43	5.90	4.13	EBC18MMBD
20/40	1.900	2.575	2.836	S7286-ND	7.84	6.23	4.36	EBC20MMBD
22/44	2.100	2.775	3.036	S7287-ND	8.38	6.65	4.66	EBC22MMBD
25/50	2.400	3.075	3.336	S7288-ND	9.04	7.18	5.03	EBC25MMBD
30/60	2.900	3.575	3.836	S7289-ND	10.17	8.08	5.66	EBC30MMBD
35/70	3.400	4.075	4.336	S7290-ND	11.37	9.03	6.32	EBC35MMBD
36/72	3.500	4.175	4.436	S7291-ND	11.56	9.18	6.43	EBC36MMBD
50/100	4.900	5.575	5.836	S7292-ND	15.09	11.98	8.39	EBC50MMBD
Fig. 1 — Right Angle, .156								
6/12	0.780	1.533	1.836	S7341-ND	4.47	3.55	2.49	EBM06MMBD
10/20	1.404	2.157	2.460	S7342-ND	5.54	4.40	3.08	EBM10MMBD
12/24	1.716	2.469	2.772	S7343-ND	6.05	4.80	3.36	EBM12MMBD
15/30	2.184	2.937	3.240	S7344-ND	6.74	5.35	3.75	EBM15MMBD
18/36	2.652	3.405	3.708	S7345-ND	7.43	5.90	4.13	EBM18MMBD
22/44	3.276	4.029	4.332	S7346-ND	8.38	6.65	4.66	EBM22MMBD
28/56	4.212	4.965	5.268	S7347-ND	9.73	7.73	5.41	EBM28MMBD
Fig. 2A — Vertical, .100, Wire-Wrap								
6/12	0.500	1.175	1.436	S7293-ND	3.81	3.03	2.12	EBC06MMMD
10/20	0.900	1.575	1.836	S7294-ND	4.82	3.83	2.68	EBC10MMMD
12/24	1.100	1.775	2.036	S7295-ND	5.29	4.20	2.94	EBC12MMMD
15/30	1.400	2.075	2.336	S7296-ND	5.92	4.70	3.29	EBC15MMMD
18/36	1.700	2.375	2.636	S7297-ND	6.58	5.23	3.66	EBC18MMMD
20/40	1.900	2.575	2.836	S7298-ND	6.96	5.53	3.87	EBC20MMMD
22/44	2.100	2.775	3.036	S7299-ND	7.40	5.88	4.12	EBC22MMMD
25/50	2.400	3.075	3.336	S7300-ND	8.03	6.38	4.47	EBC25MMMD
30/60	2.900	3.575	3.836	S7301-ND	9.07	7.20	5.04	EBC30MMMD
35/70	3.400	4.075	4.336	S7302-ND	10.17	8.08	5.66	EBC35MMMD
36/72	3.500	4.175	4.436	S7303-ND	10.36	8.23	5.76	EBC36MMMD
50/100	4.900	5.575	5.836	S7304-ND	13.64	10.83	7.58	EBC50MMMD
Fig. 2A — Vertical, .156, Wire-Wrap								
6/12	0.780	1.533	1.836	S7348-ND	3.81	3.03	2.12	EBM06MMMD
10/20	1.404	2.157	2.460	S7349-ND	4.82	3.83	2.68	EBM10MMMD
12/24	1.716	2.469	2.772	S7350-ND	5.29	4.20	2.94	EBM12MMMD

(Continued)

SULLINS Male Edgecard Connectors and Card Extenders *(Cont.)*

Pos./ Cont.	Dimensions — Inches A	B	C	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
15/30	2.184	2.937	3.240	S7351-ND	5.92	4.70	3.29	EBM15MMMD
18/36	2.652	3.405	3.708	S7352-ND	6.58	5.23	3.66	EBM18MMMD
22/44	3.276	4.029	4.332	S7353-ND	7.40	5.88	4.12	EBM22MMMD
28/56	4.212	4.965	5.268	S7354-ND	8.69	6.90	4.83	EBM28MMMD
Fig. 2A — Vertical, .100, Thru-Hole								
6/12	0.500	1.175	1.436	S7305-ND	3.81	3.03	2.12	EBC06MMWD
10/20	0.900	1.575	1.836	S7306-ND	4.82	3.83	2.68	EBC10MMWD
12/24	1.100	1.775	2.036	S7307-ND	5.29	4.20	2.94	EBC12MMWD
15/30	1.400	2.075	2.336	S7308-ND	5.92	4.70	3.29	EBC15MMWD
18/36	1.700	2.375	2.636	S7309-ND	6.58	5.23	3.66	EBC18MMWD
20/40	1.900	2.575	2.836	S7310-ND	6.96	5.53	3.87	EBC20MMWD
22/44	2.100	2.775	3.036	S7311-ND	7.40	5.88	4.12	EBC22MMWD
25/50	2.400	3.075	3.336	S7312-ND	8.03	6.38	4.47	EBC25MMWD
30/60	2.900	3.575	3.836	S7313-ND	9.07	7.20	5.04	EBC30MMWD
35/70	3.400	4.075	4.336	S7314-ND	10.17	8.08	5.66	EBC35MMWD
36/72	3.500	4.175	4.436	S7315-ND	10.36	8.23	5.76	EBC36MMWD
50/100	4.900	5.575	5.836	S7316-ND	13.64	10.83	7.58	EBC50MMWD
Fig. 2A — Vertical, .156, Thru-Hole								
6/12	0.780	1.533	1.836	S7355-ND	3.81	3.03	2.12	EBM06MMWD
10/20	1.404	2.157	2.460	S7356-ND	4.82	3.83	2.68	EBM10MMWD
12/24	1.716	2.469	2.772	S7357-ND	5.29	4.20	2.94	EBM12MMWD
15/30	2.184	2.937	3.240	S7358-ND	5.92	4.70	3.29	EBM15MMWD
18/36	2.652	3.405	3.708	S7359-ND	6.58	5.23	3.66	EBM18MMWD
22/44	3.276	4.029	4.332	S7360-ND	7.40	5.88	4.12	EBM22MMWD
28/56	4.212	4.965	5.268	S7361-ND	8.69	6.90	4.83	EBM28MMWD
Card Extenders								
Fig. 2B — .100, No Mounting Ears, .545 Tail Length								
6/12	0.500	1.175	1.436	S7317-ND	4.54	3.60	2.52	EBC06MMNN
10/20	0.900	1.575	1.836	S7318-ND	5.54	4.40	3.08	EBC10MMNN
12/24	1.100	1.775	2.036	S7319-ND	5.99	4.75	3.33	EBC12MMNN
15/30	1.400	2.075	2.336	S7320-ND	6.62	5.25	3.68	EBC15MMNN
18/36	1.700	2.375	2.636	S7321-ND	7.28	5.78	4.05	EBC18MMNN
20/40	1.900	2.575	2.836	S7322-ND	7.69	6.10	4.27	EBC20MMNN
22/44	2.100	2.775	3.036	S7323-ND	8.13	6.45	4.52	EBC22MMNN
25/50	2.400	3.075	3.336	S7324-ND	8.76	6.95	4.87	EBC25MMNN
30/60	2.900	3.575	3.836	S7325-ND	9.80	7.78	5.45	EBC30MMNN
35/70	3.400	4.075	4.336	S7326-ND	10.87	8.63	6.04	EBC35MMNN
36/72	3.500	4.175	4.436	S7327-ND	11.09	8.80	6.16	EBC36MMNN
50/100	4.900	5.575	5.836	S7328-ND	14.36	11.40	7.98	EBC50MMNN
Fig. 2B — .100, No Mounting Ears, .175 Tail Length								
6/12	0.500	1.175	1.436	S7329-ND	4.54	3.60	2.52	EBC06MMRN
10/20	0.900	1.575	1.836	S7330-ND	5.54	4.40	3.08	EBC10MMRN
12/24	1.100	1.775	2.036	S7331-ND	5.99	4.75	3.33	EBC12MMRN
15/30	1.400	2.075	2.336	S7332-ND	6.62	5.25	3.68	EBC15MMRN
18/36	1.700	2.375	2.636	S7333-ND	7.28	5.78	4.05	EBC18MMRN
20/40	1.900	2.575	2.836	S7334-ND	7.69	6.10	4.27	EBC20MMRN
22/44	2.100	2.775	3.036	S7335-ND	8.13	6.45	4.52	EBC22MMRN
25/50	2.400	3.075	3.336	S7336-ND	8.76	6.95	4.87	EBC25MMRN
30/60	2.900	3.575	3.836	S7337-ND	9.80	7.78	5.45	EBC30MMRN
35/70	3.400	4.075	4.336	S7338-ND	10.87	8.63	6.04	EBC35MMRN
36/72	3.500	4.175	4.436	S7339-ND	11.09	8.80	6.16	EBC36MMRN
50/100	4.900	5.575	5.836	S7340-ND	14.36	11.40	7.98	EBC50MMRN
Fig. 2B — .156, No Mounting Ears, .545 Tail Length								
6/12	0.780	1.533	1.836	S7362-ND	4.54	3.60	2.52	EBM06MMNN
10/20	1.404	2.157	2.460	S7363-ND	5.54	4.40	3.08	EBM10MMNN
12/24	1.716	2.469	2.772	S7364-ND	5.99	4.75	3.33	EBM12MMNN
15/30	2.184	2.937	3.240	S7365-ND	6.62	5.25	3.68	EBM15MMNN
18/36	2.652	3.405	3.708	S7366-ND	7.28	5.78	4.05	EBM18MMNN
22/44	3.276	4.029	4.332	S7367-ND	8.13	6.45	4.52	EBM22MMNN
28/56	4.212	4.965	5.268	S7368-ND	9.42	7.48	5.24	EBM28MMNN
36/72	5.460	6.213	6.516	S7369-ND	11.37	9.03	6.32	EBM36MMNN
Fig. 2B — .156, No Mounting Ears, .175 Tail Length								
6/12	0.780	1.533	1.836	S7370-ND	4.54	3.60	2.52	EBM06MMRN
10/20	1.404	2.157	2.460	S7371-ND	5.54	4.40	3.08	EBM10MMRN
12/24	1.716	2.469	2.772	S7372-ND	5.99	4.75	3.33	EBM12MMRN
15/30	2.184	2.937	3.240	S7373-ND	6.62	5.25	3.68	EBM15MMRN
18/36	2.652	3.405	3.708	S7374-ND	7.28	5.78	4.05	EBM18MMRN
22/44	3.276	4.029	4.332	S7375-ND	8.13	6.45	4.52	EBM22MMRN
28/56	4.212	4.965	5.268	S7376-ND	9.42	7.48	5.24	EBM28MMRN
36/72	5.460	6.213	6.516	S7377-ND	11.37	9.03	6.32	EBM36MMRN

PCI Express Connectors

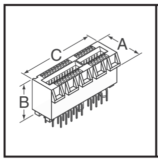

Fig. 1

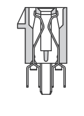

Fig. 2

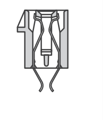

Fig. 3

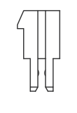

Fig. 4

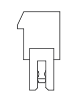

Materials: • Insulator: High temperature thermoplastic • Contact Plating: Gold flash • Operating Temperature: -10°C ~ 85°C • Processing Temperature: 260°C for 10 seconds max. • UL Flammability Rating: 94V-0 • Voltage Rating: 50VDC min. at sea level • Current Rating: 1.1A per contact pair • Insulation Resistance: 1000MΩ

Pos./ Cont.	Dimensions — Inches A	B	C	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Fig. 1 — Vertical Thru-Hole								
18/36	0.348	0.443	0.984	S2781-ND	.69	.55	.33	NWE18DHHN-T911
18/36	0.348	0.443	0.984	S2782-ND	.69	.55	.33	NWE18DHHN-T921
18/36	0.348	0.443	0.984	S2783-ND	.69	.55	.33	NWE18DHHN-T931
32/64	0.348	0.443	1.535	S2784-ND	1.23	.98	.59	NWE32DHHN-T911
32/64	0.348	0.443	1.535	S2785-ND	1.23	.98	.59	NWE32DHHN-T921
32/64	0.348	0.443	1.535	S2786-ND	1.23	.98	.59	NWE32DHHN-T931
49/98	0.348	0.443	2.205	S2787-ND	1.80	1.43	.86	NWE49DHHN-T911
49/98	0.348	0.443	2.205	S2788-ND	1.80	1.43	.86	NWE49DHHN-T921
49/98	0.348	0.443	2.205	S2789-ND	1.80	1.43	.86	NWE49DHHN-T931
82/164	0.348	0.443	3.504	S2790-ND	2.08	1.65	.99	NWE82DHHN-T911
82/164	0.348	0.443	3.504	S2791-ND	2.08	1.65	.99	NWE82DHHN-T921
82/164	0.348	0.443	3.504	S2792-ND	2.08	1.65	.99	NWE82DHHN-T931
115/230	0.348	0.443	4.80	S2793-ND	7.59	6.03	3.62	NWE115DHHN-T911
115/230	0.348	0.443	4.80	S2794-ND	7.59	6.03	3.62	NWE115DHHN-T921
115/230	0.348	0.443	4.80	S2795-ND	7.59	6.03	3.62	NWE115DHHN-T931
140/280	0.348	0.443	5.866	S2796-ND	7.62	6.05	3.63	NWE140DHHN-T911
140/280	0.348	0.443	5.866	S2797-ND	7.28	5.78	3.47	NWE140DHHN-T921
140/280	0.348	0.443	5.866	S2798-ND	7.28	5.78	3.47	NWE140DHHN-T931
Fig. 2 — Straddle Mount								
18/36	0.348	0.404	0.984	S2799-ND	2.33	1.85	1.11	NWE18DHRN-T941
32/64	0.348	0.404	1.535	S2800-ND	2.45	1.95	1.17	NWE32DHRN-T941
49/98	0.348	0.404	2.204	S2801-ND	3.49	2.77	1.67	NWE49DHRN-T941
82/164	0.348	0.404	3.504	S2802-ND	7.47	5.93	3.56	NWE82DHRN-T941
Fig. 3 — Straddle Mount with Pegs								
18/36	0.348	0.404	0.984	S2803-ND	2.65	2.10	1.26	NWE18DHRN-T9410
32/64	0.348	0.404	1.535	S2804-ND	2.66	2.12	1.27	NWE32DHRN-T9410
49/98	0.348	0.404	2.204	S2805-ND	3.71	2.95	1.77	NWE49DHRN-T9410
82/164	0.348	0.404	3.504	S2806-ND	8.51	6.75	4.05	NWE82DHRN-T9410
Fig. 4 — Straddle Mount with Ear Clips								
18/36	0.348	0.404	0.989	S2807-ND	2.30	1.83	1.10	NWE18DHRQ-T941
32/64	0.348	0.404	1.535	S2808-ND	2.81	2.23	1.34	NWE32DHRQ-T941
49/98	0.348	0.404	2.204	S2809-ND	3.87	3.07	1.85	NWE49DHRQ-T941
82/164	0.348	0.404	3.504	S2810-ND	8.73	6.93	4.16	NWE82DHRQ-T941

AVX INTERCONNECT
A KYOCERA GROUP COMPANY

PCI Express Card Edge Connectors

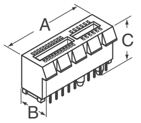

Vertical card edge connectors specifically designed to implement PCI Express technology for desktop PCs and server systems. All connectors support PCI Express signal and power requirements as well as the interface between system board and the add on card specification.

Technical Specifications:

- **Current Rating:** 1.1A, maximum
- **Contact Resistance:** 30mΩ, maximum
- **Contact Material:** Phosphor Bronze
- **Contact Plating:** Contact Area: 15μm AuNi; Terminal Area: Tin (Lead Free)
- **Insulator Material:** 30% Glass Filled Nylon
- **Insulation Resistance:** 1000MΩ min. at 50VAC

No. of Contacts	Dimensions — mm A	B	C	Tail Length (mm)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
64	39.00	8.70	15.50	2.3	478-2841-ND	7.14	5.82	4.08	206325064001006

Tyco Electronics
Authorized Distributor

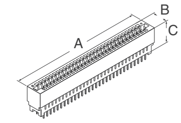

AMP Card Edge Connectors

Material and Finish: • Housing: Black glass-filled polyester, 94V-0 rated • Contacts: Phosphor bronze, duplex • Plating A: 30μ" gold in contact area, tin on posts, with entire contact nickel underplated

No. of Pos.	Dimensions (Inches) A	B	C	Distance Between First and Last Position (Inches)	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
.100 Centerline, Vertical Solder Posts, without Mounting Ears									
10	1.260	.368	.61	0.900	A31722-ND	1.83	1.74	1.22	5-5530843-0
15	1.760	.368	.61	1.400	A31715-ND	2.00	1.90	1.33	5530843-2
18	2.060	.368	.61	1.700	A31716-ND	2.40	2.28	1.60	5530843-3
20	2.260	.368	.61	1.900	A31723-ND	2.66	2.53	1.77	5-5530843-4
22	2.460	.368	.61	2.100	A31717-ND	2.72	2.58	1.81	5530843-4
25	2.760	.368	.61	2.400	A31718-ND	3.05	2.90	2.03	5530843-5
28	3.060	.368	.61	2.700	A31719-ND	3.42	3.25	2.28	5530843-6
30	3.260	.368	.61	2.900	A31720-ND	3.59	3.41	2.39	5530843-7
31	3.360	.368	.61	3.000	A31724-ND	3.71	3.52	2.47	6-5530843-5

DIN Connectors

No. of Rows	No. of Pins	Type	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	10	100	Hirose Part No.
							Fig. 1				
2	100	Header-Right Angle	139.72	131.07	124.46	134.62	H1100-ND	3.05	25.20	189.00	PCN10-100P-2.54DS
							Fig. 4				
2	100	Socket-Straight	140.72	135.72	130.72	124.46	H8200-ND	11.14	103.05	863.35	PCN10MC-100S-2.54DSA
							RoHS Compliant				
							Fig. 1				
2	20	Header-Right Angle	38.12	29.47	22.86	33.02	H11156-ND	3.34	27.60	207.00	PCN10-20P-2.54DS(72)
	32	Header-Right Angle	53.26	44.71	38.10	48.26	H11157-ND	4.38	36.24	271.80	PCN10-32P-2.54DS(72)
	44	Header-Right Angle	68.60	59.95	53.34	63.50	H11158-ND	5.28	43.68	327.60	PCN10-44P-2.54DS(72)
	50	Header-Right Angle	76.22	67.57	60.96	71.12	H11159-ND	5.97	49.44	370.80	PCN10-50P-2.54DS(72)
	64	Header-Right Angle	94.00	85.35	78.74	88.90	H11160-ND	6.64	54.96	412.20	PCN10-64P-2.54DS(72)
	64	Header-Right Angle	94.00	85.35	78.74	88.90	H11212-ND	8.03	67.98	509.85	PCN10MC-64P-2.54DS(72)
	90	Header-Right Angle	127.02	118.37	111.76	121.92	H11161-ND	8.27	69.96	524.70	PCN10-90P-2.54DS(72)
	100	Header-Right Angle	139.72	131.07	124.46	134.62	H11213-ND	10.14	88.20	705.60	PCN10MC-100P-2.54DS(72)
	100	Header-Right Angle	139.72	131.07	124.46	134.62	H11162-ND	8.84	74.80	561.00	PCN10-100P-2.54DS(72)
							Fig. 2				
2	20	Header-Straight	43.3	38.1	29.47	22.86	H11163-ND	3.83	31.68	237.60	PCN10-20P-2.54DSA(72)
	32	Header-Straight	58.34	53.34	44.71	38.10	H11164-ND	4.52	37.44	280.80	PCN10-32P-2.54DSA(72)
	44	Header-Straight	73.58	68.10	59.95	53.34	H11165-ND	5.60	46.32	347.40	PCN10-44P-2.54DSA(72)
	50	Header-Straight	81.40	76.20	67.57	60.96	H11166-ND	6.44	53.28	399.60	PCN10-50P-2.54DSA(72)
	64	Header-Straight	99.18	93.98	85.34	78.74	H11167-ND	6.92	58.52	438.90	PCN10-64P-2.54DSA(72)
	90	Header-Straight	132.20	127.00	118.37	111.76	H11168-ND	8.14	70.80	566.40	PCN10-90P-2.54DSA(72)
							Fig. 3				
2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H11169-ND	6.73	55.68	417.60	PCN10C-20S-2.54DS(72)
	32	Socket-Right Angle	58.34	44.36	38.10	53.34	H11170-ND	7.02	58.08	435.60	PCN10C-32S-2.54DS(72)
	44	Socket-Right Angle	73.58	59.60	53.34	68.58	H11171-ND	8.37	70.84	531.30	PCN10C-44S-2.54DS(72)
	50	Socket-Right Angle	81.20	67.22	60.96	76.20	H11181-ND	8.66	73.26	549.45	PCN10C-50S-2.54DS(72)
	64	Socket-Right Angle	98.98	85.00	78.74	93.98	H11182-ND	9.43	82.00	656.00	PCN10C-64S-2.54DS(72)
	90	Socket-Right Angle	132.00	118.02	111.76	127.00	H11183-ND	11.54	106.75	894.35	PCN10C-90S-2.54DS(72)
	100	Socket-Right Angle	144.70	130.72	124.46	139.70	H11184-ND	12.40	114.70	961.00	PCN10C-100S-2.54DS(72)
	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H11185-ND	3.39	28.08	210.60	PCN13-20S-2.54DS(71)
	32	Socket-Right Angle	58.34	44.36	38.10	53.43	H11186-ND	4.35	36.00	270.00	PCN13-32S-2.54DS(71)
	44	Socket-Right Angle	73.58	59.60	53.34	68.58	H11187-ND	5.42	44.88	336.60	PCN13-44S-2.54DS(71)
	50	Socket-Right Angle	81.20	67.22	60.96	76.20	H11468-ND	6.00	49.68	372.60	PCN13-50S-2.54DS(81)
	64	Socket-Right Angle	98.98	85.00	78.74	93.98	H11189-ND	6.60	55.88	419.10	PCN13-64S-2.54DS(71)
	90	Socket-Right Angle	132.00	118.02	111.76	127.00	H11190-ND	8.24	69.74	523.05	PCN13-90S-2.54DS(71)
	100	Socket-Right Angle	144.70	130.72	124.46	139.70	H11191-ND	8.35	72.60	580.80	PCN13-100S-2.54DS(71)
							Fig. 4				
2	20	Socket-Straight	39.12	34.12	29.12	22.86	H11192-ND	4.90	40.56	304.20	PCN10C-20S-2.54DSA(72)
	32	Socket-Straight	54.36	49.36	44.36	38.10	H11193-ND	6.44	53.28	399.60	PCN10C-32S-2.54DSA(72)
	44	Socket-Straight	69.60	64.60	59.60	53.34	H11194-ND	7.83	66.22	496.65	PCN10C-44S-2.54DSA(72)
	50	Socket-Straight	77.22	72.22	67.22	60.96	H11195-ND	8.22	69.52	521.40	PCN10C-50S-2.54DSA(72)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11196-ND	8.72	75.80	606.40	PCN10C-64S-2.54DSA(72)
	90	Socket-Straight	128.02	123.02	118.02	111.76	H11197-ND	10.00	92.50	775.00	PCN10C-90S-2.54DSA(72)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11198-ND	10.98	101.57	850.95	PCN10C-100S-2.54DSA(72)
	50	Socket-Straight-W/W	77.22	72.22	67.22	60.96	H11200-ND	11.09	96.40	771.20	PCN10-50S-2.54WB(72)
	20	Socket-Straight	39.12	34.12	29.12	22.86	H11203-ND	3.05	25.20	189.00	PCN13-20S-2.54DSA(71)
	32	Socket-Straight	54.36	49.36	44.36	38.10	H11204-ND	3.97	32.88	246.60	PCN13-32S-2.54DSA(71)
	44	Socket-Straight	69.60	64.60	59.60	53.34	H11205-ND	5.02	41.52	311.40	PCN13-44S-2.54DSA(71)
	50	Socket-Straight	77.22	72.22	67.22	60.96	H11206-ND	5.57	46.08	345.60	PCN13-50S-2.54DSA(71)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11207-ND	6.76	55.92	419.40	PCN13-64S-2.54DSA(71)
	90	Socket-Straight	128.02	123.02	118.02	111.76	H11208-ND	8.24	69.74	523.05	PCN13-90S-2.54DSA(71)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11209-ND	9.02	76.34	572.55	PCN13-100S-2.54DSA(71)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11210-ND	8.46	73.60	588.80	PCN10MC-64S-2.54DSA(72)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11211-ND	10.30	95.28	798.25	PCN10MC-100S-2.54DSA(72)
							Fig. 5				
3	64†	Header-Right Angle	94.00	88.00	85.25	78.74	H11214-ND	6.99	59.18	443.85	PCN10-64ACP-2.54DS(72)
	96	Header-Right Angle	94.00	88.00	85.25	78.74	H11215-ND	8.76	74.14	556.05	PCN10-96P-2.54DS(72)
	96	Header-Right Angle	94.00	88.00	85.25	78.74	H11216-ND	9.06	78.80	630.40	PCN10MC-96P-2.54DS(72)
							Fig. 6				
3	64†	Header-Straight	95.00	90.00	88.00	85.25	H11217-ND	8.03	67.98	509.85	PCN10-64ACP-2.54DSA(72)
	96	Header-Straight	95.00	90.00	88.00	85.25	H11218-ND	9.48	82.40	659.20	PCN10-96P-2.54DSA(72)
							Fig. 7				
3	96	Socket-Right Angle	94.00	85.00	78.74	88.90	H11220-ND	8.46	73.60	588.80	PCN13-96S-2.54DS(71)
							Fig. 8				
3	96	Socket-Straight	95.00	90.00	85.00	78.74	H11221-ND	10.14	88.20	705.60	PCN10MC-96S-2.54DSA(72)
	64†	Socket-Straight	95.00	90.00	85.00	78.74	H11222-ND	9.00	76.12	570.90	PCN10-64ACS-2.54DSA(72)
	96	Socket-Straight	95.00	90.00	85.00	78.74	H11223-ND	9.02	76.34	572.55	PCN13-96S-2.54DSA(71)
	96	Socket-Straight-W/W	95.00	90.00	85.00	78.74	H11224-ND	14.50	136.48	1194.20	PCN10-96S-2.54WB(72)

† 64 pins; in 3-row format with pins on outside rows and middle row open

Fig. 1
2-Row, Header, Right-Angle Type

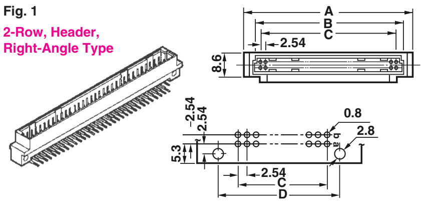

Fig. 2
2-Row, Header, Straight Type

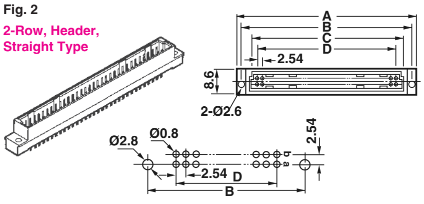

Fig. 3
2-Row, Socket, Right-Angle Type

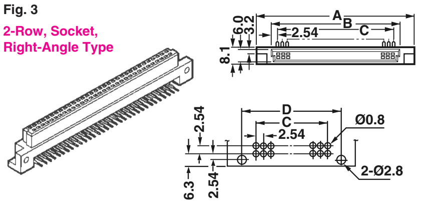

Fig. 4
2-Row, Socket, Straight Type

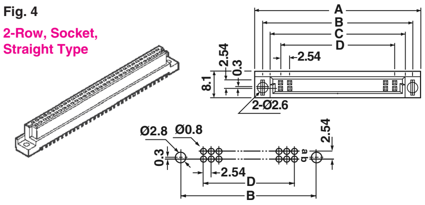

Fig. 5
3-Row, Header, Right-Angle Type

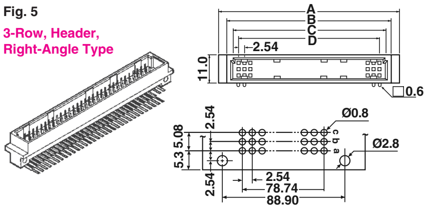

Fig. 6
3-Row, Header, Straight Type

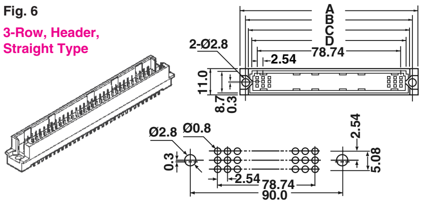

Fig. 7
3-Row, Socket, Right-Angle Type

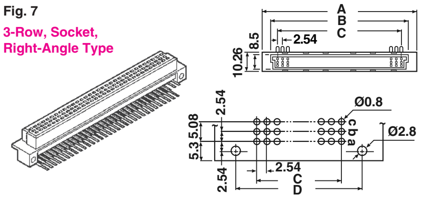

Fig. 8
3-Row, Socket, Straight Type

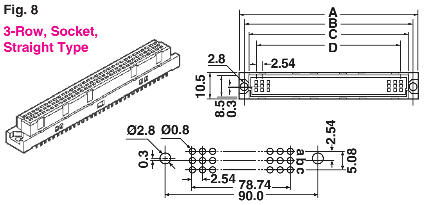

AMP DIN Connectors

Specifications: • Housing: Polyester, gray, 94V-0 rated

Fig. 1

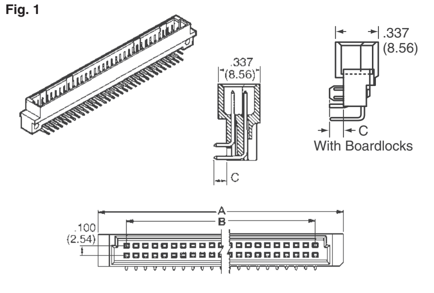

Fig. 2

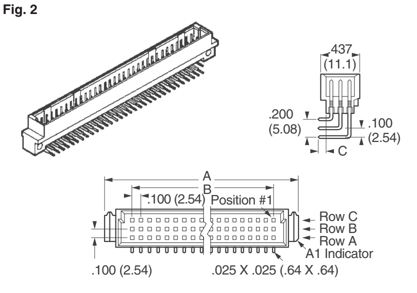

Fig. 3

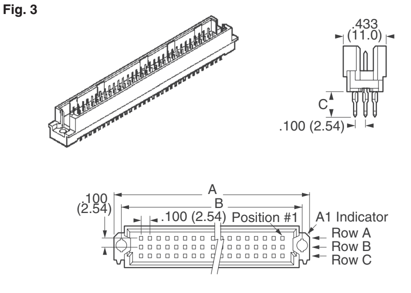

Fig. 4

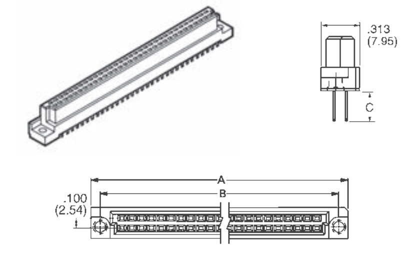

Fig. 5

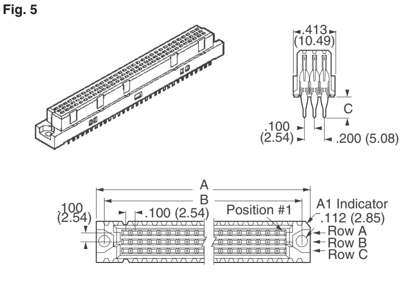

Fig. 6

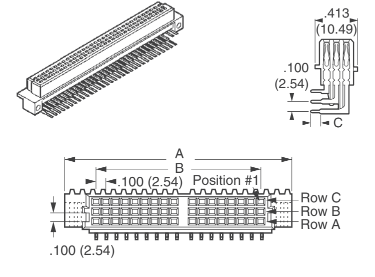

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
				A	B	C		1	25	
Brass Contacts										
Type B Right Angle Plug With Solder Posts										
1	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29001-ND	4.87	4.53	536053-5
		32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32808-ND◆	5.38	5.00	5536053-5
		64	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1250-ND	7.45	6.92	536052-5
		64	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29000-ND†	5.85	5.44	536385-5
		64	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32297-ND◆†	8.53	8.22	5536385-5
Type C Plug, Right Angle										
2	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A1276-ND	2.46	2.29	650946-5
	3	48	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32298-ND◆	3.13	3.02	5650478-5
		48	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29005-ND†	3.11	2.89	650916-5
		48	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32809-ND◆†	3.72	3.46	5650916-5
		48	2	2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A1281-ND	4.12	3.83	650948-5
		48	2	2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A32810-ND◆	3.16	2.94	5650948-5
		64*	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A99507-ND◆	5.04	4.56	9-1393644-4
		64*	2	2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A1280-ND	4.42	4.11	650951-5
		64*	2	2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A32811-ND◆	4.00	3.72	5650951-5
		64*	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32812-ND◆†	4.51	4.19	5536406-5
		64*	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32813-ND◆†	4.76	4.42	5536356-5
		64*	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1255-ND	3.19	2.97	650945-5
		64*	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32299-ND◆	3.35	3.23	5650945-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A99508-ND◆	5.99	5.43	9-1393644-1
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32300-ND◆	5.00	4.81	5650947-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29007-ND†	7.98	7.41	536405-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32814-ND◆†	5.68	5.28	5536405-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A1254-ND	5.18	4.81	650473-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29009-ND§	5.43	5.05	536010-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32815-ND◆§	5.35	4.97	5536010-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29010-ND†§	8.51	7.91	536416-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32816-ND◆†§	7.95	7.39	5536416-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29012-ND†	4.87	4.53	650913-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32817-ND◆†	5.15	4.79	5650913-5
		120	2	4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A1277-ND	5.46	5.07	650906-5
		120	2	4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A32301-ND◆	6.94	6.69	5650906-5
		120	2	4.500 (114.30)	3.900 (99.06)	.130 (3.30)	A32818-ND◆	15.48	14.38	5650949-5
		150	2	5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A1278-ND	6.89	6.40	650907-5
		150	2	5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A32302-ND◆	8.56	8.25	5650907-5
Type R Vertical Plug with Solder Posts										
3	3	32*	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1238-ND	4.62	4.29	650936-5
		32*	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A32820-ND◆	2.75	2.56	5650936-5
		48	2	2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A32303-ND◆	2.97	2.86	5650479-5
		48	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1237-ND	2.48	2.31	650477-5
		48	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A32821-ND◆	3.33	3.10	5650477-5
		64*	2	2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A29034-ND	7.95	7.39	650933-5
		64*	2	2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A32822-ND◆	4.26	3.96	5650933-5
		64*	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1261-ND	3.11	2.89	650934-5
		64*	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A32823-ND◆	4.59	4.27	5650934-5
		96	2	3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A29032-ND	4.48	4.16	650908-5
		96	2	3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A32824-ND◆	4.23	3.93	5650908-5
		96	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1260-ND	4.98	4.63	650470-5
		96	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A32825-ND◆	5.29	4.92	5650470-5
		120	2	4.535 (115.19)	4.343 (110.31)	.180 (4.57)	A32826-ND◆	7.81	7.26	5650910-5
		120	2	4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A29037-ND	8.34	7.75	650919-5
		120	2	4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A32827-ND◆	10.16	9.44	5650919-5
		150	2	5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A1297-ND	12.91	11.99	650911-5
		150	2	5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A32828-ND◆	14.62	13.58	5650911-5

◆ ***RoHS Compliant*** * In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30μ" gold over 50μ" nickel in contact area *(Continued)*

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
				A	B	C		1	25	
Phosphor Bronze Contacts										
Type B Vertical Receptacle										
4	2	32	2	2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A1253-ND	4.87	4.53	650858-5
		32	2	2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A32829-ND◆	4.68	4.35	5650858-5
		64	2	3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A29002-ND	6.16	5.72	650859-5
		64	2	3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A32830-ND◆	6.22	5.78	5650859-5
		64	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29003-ND	6.36	5.91	650860-5
		64	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32831-ND◆	6.36	5.91	5650860-5
		64	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1252-ND	6.36	5.91	650861-5
		64	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32832-ND◆	6.36	5.91	5650861-5
		64	—	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29004-ND	6.38	5.93	650861-4
		64	—	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32833-ND◆	6.66	6.19	5650861-4
Type C Vertical Receptacle										
5	3	48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A1287-ND	3.47	3.23	535070-5
		48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A32834-ND◆	3.56	3.31	5535070-5
		48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A29022-ND	6.10	5.67	535070-4
		48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A32835-ND◆	2.66	2.47	5535070-4
		48	2	2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A29023-ND	2.97	2.76	535071-4
		48	2	2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A32836-ND◆	3.22	2.99	5535071-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1259-ND	3.50	3.25	650408-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32837-ND◆	4.00	3.72	5650408-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1286-ND	4.40	4.09	650956-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32838-ND◆	3.39	3.15	5650956-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29021-ND	5.66	5.26	650408-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32839-ND◆	5.29	4.92	5650408-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.114 (2.90)	A99509-ND◆	5.96	5.40	9-1393640-3
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1258-ND	4.40	4.09	535043-5
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32840-ND◆	4.31	4.01	5535043-5
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1285-ND	4.34	4.03	535090-5
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32841-ND◆	4.23	3.93	5535090-5
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29014-ND	4.59	4.27	535090-4
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32842-ND◆	4.23	3.93	5535090-4
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29015-ND†	5.63	5.23	650963-4
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32843-ND◆†	5.38	5.00	5650963-4
		96	3	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29016-ND	9.63	8.95	535090-9
		96	3	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32844-ND◆	4.59	4.27	5535090-9
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29017-ND	4.40	4.09	535043-4
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32845-ND◆	4.31	4.01	5535043-4
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32846-ND†◆	5.49	5.10	5536412-4
		120	2	4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A1289-ND	6.10	5.67	535098-5
		120	2	4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A32847-ND◆	6.08	5.65	5535098-5
		150	2	5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A1290-ND	8.16	7.28	650405-5
		150	2	5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A32848-ND◆	9.49	8.47	5650405-5
		150	2	5.500 (139.70)	5.343 (135.71)	.180 (4.57)	A29027-ND	15.40	14.30	650406-5
		150	2	5.500 (139.70)	5.343 (135.71)	.180 (4.57)	A32849-ND◆	14.36	13.34	5650406-5
Type C Vertical Receptacle with Action Pin For PC Board Mount — .012” x .024” (0.30mm x 0.61mm)										
5	3	32*	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1294-ND	2.80	2.61	535068-5
		32*	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A32850-ND◆	5.24	4.87	5535068-5
		48	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1293-ND	5.26	4.89	535034-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A29029-ND	3.42	3.18	535059-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32851-ND◆	5.29	4.92	5535059-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A1292-ND	4.62	4.29	535059-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32852-ND◆	5.29	4.92	5535059-5
		96	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A1291-ND	5.68	5.28	535032-4
		96	3	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A29028-ND	7.42	6.89	535032-9
		96	3	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32853-ND◆	6.97	6.48	5535032-9
		120	2	4.500 (114.30)	4.343 (110.31)	.190 (4.83)	A1295-ND	9.30	8.64	535079-5
		120	2	4.500 (114.30)	4.343 (110.31)	.190 (4.83)	A32854-ND◆	8.68	8.06	5535079-5
		150	2	5.500 (139.70)	5.343 (135.71)	.190 (4.83)	A1296-ND	12.26	11.39	535080-5
		150	2	5.500 (139.70)	5.343 (135.71)	.190 (4.83)	A32855-ND◆	11.51	10.69	5535080-5
Type R Vertical Plug with Action Pin Posts										
3	3	48	2	2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A1243-ND	3.30	3.07	650918-5
		48	2	2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A32304-ND◆	3.02	2.92	5650918-5
		64*	2	3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1242-ND	6.94	6.45	650912-5
		96	2	3.740 (95.00)	3.543 (89.99)	.521 (13.23)	A1265-ND	6.52	6.06	650909-5
		96	2	3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1241-ND	5.63	5.23	650889-5
		96	2	3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A32857-ND◆	4.42	4.11	5650889-5
		120	2	4.535 (115.19)	4.343 (110.31)	.250 (6.35)	A1245-ND	12.38	11.50	650921-5
Type R Vertical Plug with Solder Posts – RoHS Compliant										
3	3	96	2	3.701 (94.00)	3.500 (88.90)	.189 (4.80)	A99511-ND	5.94	5.38	2-1393659-8
Type R Right Angle Receptacle										
6	3	48	2	2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A32306-ND◆	3.54	3.41	5650868-4
		48	2	2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A1271-ND	5.60	5.20	650868-5
		48	2	2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A32858-ND◆	3.67	3.41	5650868-5
		64*	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A1263-ND	5.85	5.44	650870-4
		64*	2	3.696 (93.88)	3.100 (78.74)	110 (2.79)	A32859-ND◆	5.07	4.71	5650870-4
		96	2	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A29044-ND	10.53	9.78	650462-4
		96	2	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A32860-ND◆	6.50	6.04	5650462-4
		96	3	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A1264-ND	9.60	8.92	650462-5
		96	3	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A32861-ND◆	10.89	10.12	5650462-5
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A29038-ND	4.96	4.61	650461-4
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A32862-ND◆	4.96	4.61	5650461-4
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A1262-ND	5.57	5.18	650461-5
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A32863-ND◆	4.96	4.61	5650461-5
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A29039-ND†	6.61	6.14	650895-4
		120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A32307-ND◆	7.13	6.87	5650874-5
		120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A30746-ND‡	12.94	12.02	650874-4
		120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A32864-ND◆	8.93	8.30	5650874-4
		150	2	5.496 (139.60)	4.900 (124.46)	.110 (2.79)	A1274-ND	14.36	13.34	650875-5
		150	2	5.496 (139.60)	4.900 (124.46)	.110 (2.79)	A32865-ND◆	8.93	8.30	5650875-5

◆ ***RoHS Compliant*** * In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30µ” gold over 50µ” nickel in contact area

Tyco Electronics
Authorized Distributor

ELCON Drawer Series Connectors

ELCON Drawer Series family of mixed power and signal connectors is designed for an unlimited array of applications that use drawer-type, true hot-plug power supply units. Contacts for AC IN and DC OUT power, logic and signal are all housed in robust one-piece insulators that have built-in or optional mating guides for improved gatherability and mating polarization.

Features: • High performance CROWN BAND contacts • Low millivolt drop, minimal temperature rise • True hot-pluggability for current interruption under load

Applications: • Low noise power supplies • Switch-mode power supplies • "Live" hot-plug power supplies

Fig. 1

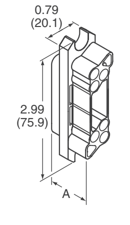

Fig. 2

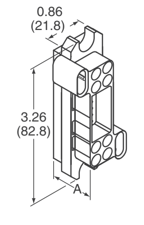

Fig. 3

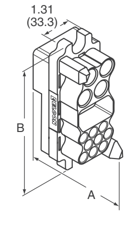

Fig.	Description	Dimensions – Inch (mm)		Digi-Key Part No.	Price Each			ELCON Part No.
		A	B		1	25	100	
	Mini Drawer							
1	Pin Connector, 16/20/16	0.97 (24.6)	—	A36276-ND	12.24	11.09	7.86	1648111-1
	Socket Connector, 16/20/16	1.08 (27.4)	—	A36277-ND	8.51	7.71	5.46	1648116-1
	Lower Drawer							
2	Pin Connector, 12/20/12	0.87 (22.1)	—	A36262-ND	7.95	7.20	5.10	1648203-1
	Pin Connector, 16/20/12	0.87 (22.1)	—	A36266-ND	9.35	8.48	6.01	1648205-1
	Pin Connector, 16/20/16	0.87 (22.1)	—	A36264-ND	11.08	10.04	7.11	1648204-1
	Socket Connector, 12/20/12	1.09 (27.7)	—	A36263-ND	8.35	7.56	5.36	1648206-1
	Socket Connector, 16/20/12	1.09 (27.7)	—	A36267-ND	11.55	10.47	7.42	1648208-1
	Socket Connector, 16/20/16	1.09 (27.7)	—	A36265-ND	9.62	8.72	6.18	1648207-1
	Middle Drawer							
3	Pin Connector, 4/20/12, Float Mount	1.31 (33.3)	3.15 (80.0)	A36272-ND	17.30	15.68	11.11	1648151-1
	Pin Connector, 4/20/12, PCB Mount	0.98 (24.9)	3.15 (80.0)	A36274-ND	17.33	15.70	11.12	1648152-1
	Pin Connector, 8/20/12 Crimp, Float Mount	1.46 (37.1)	3.31 (84.1)	A36268-ND	9.41	8.52	6.04	1648162-1
	Pin Connector, 8/20/12, PCB Mount	1.22 (31.0)	3.31 (84.1)	A36270-ND	11.02	9.99	7.08	1648163-1
	Socket Connector, 4/20/12, Float Mount	1.36 (34.5)	3.15 (80.0)	A36273-ND	14.63	13.25	9.39	1648156-1
	Socket Connector, 4/20/12, PCB Mount	1.23 (31.2)	3.15 (80.0)	A36275-ND	17.33	15.70	11.12	1648157-1
	Socket Connector, 8/20/12 Float Mount	1.12 (28.4)	3.31 (84.1)	A36269-ND	11.37	10.30	7.30	6648167-1
	Socket Connector, 8/20/12, PCB Mount	0.88 (22.4)	3.31 (84.1)	A36271-ND	12.61	11.43	8.10	1648168-1

Contacts and Tools

Description	Digi-Key Part No.	Price Each			ELCON Part No.
		1	25	100	
Contacts					
Crimp Pin, Size #4, Silver	A36278-ND	6.36	5.76	4.08	1766232-1
Crimp Socket, Size #4, Silver	A36296-ND	8.90	8.07	5.72	6648434-1
Crimp Pin, Size #8, Silver	A36279-ND	2.29	2.08	1.47	1766192-1
Crimp Socket, Size #8, Silver	A36294-ND	7.66	6.94	4.92	6648317-1
PCB Pin, Size #8, Silver	A36280-ND	2.57	2.33	1.65	1766262-1
PCB Socket, Size #8, Silver	A36295-ND	7.66	6.94	4.92	6648400-1
Crimp Pin, Size #12, Silver	A36281-ND	1.00	.91	.65	1766193-1
Crimp Socket, Size #12, Silver	A36292-ND	3.52	3.20	2.27	6648318-1
PCB Pin, Size #12, Silver	A36282-ND	1.10	1.00	.71	1766245-1
PCB Socket, Size #12, Silver	A36293-ND	3.87	3.51	2.49	6648374-1
Crimp Pin, Size #16, Silver	A36283-ND	1.30	1.19	.84	1766194-1
Crimp Socket, Size #16, Silver	A36289-ND	3.68	3.34	2.37	6648319-1
PCB Pin, Size #16, Silver	A36284-ND	.80	.72	.51	1766222-1
PCB Socket, Size #16, Silver	A36290-ND	3.34	3.03	2.15	6648383-1
Crimp Socket, Size #12, 5μ" Gold, Hot-Pluggable	A36291-ND	7.02	6.36	4.51	1648384-1
Crimp Pin, Size #20, 10μ" Gold	A36285-ND	.57	.52	.37	1650155-1
Crimp Socket, Size #20, 10μ" Gold	A36287-ND	1.56	1.42	1.00	1648325-1
PCB Pin, Size #20, 30μ" Gold	A36286-ND	.62	.57	.40	1650283-1
PCB Socket, Size #20, 10μ" Gold	A36288-ND	1.56	1.42	1.00	1648382-1
Tools					
Insertion/Extraction Tool, Size #0, Light Yellow	A36313-ND	5.20	—	—	1643921-1
Insertion/Extraction Tool, Size #4, Blue	A36312-ND	6.73	—	—	1643922-1
Insertion/Extraction Tool, Size #8, Red	A36311-ND	4.48	—	—	1643914-1
Insertion/Extraction Tool, Size #12, Yellow/White	A36310-ND	3.63	—	—	1643915-1
Insertion/Extraction Tool, Size #16, Blue/White	A36309-ND	2.60	—	—	1643916-1
Insertion/Extraction Tool, Size #20, Red/White	A36308-ND	2.19	—	—	1643917-1

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Description	Digi-Key Part No.	Price Each	Astro Tool Corp. Part No.
Pneumatic Crimp Tool without Dies	AMT23B-ND	1424.43	AMT23B
Size 4 Die Set for use with AMT23B	AMT23004DA-ND	274.84	AMT23004DA
Locator for use with AMT23004DA	AMT23011L-ND	38.98	AMT23011L
Size 8 Die Set for use with AMT23B	AMT23002DA-ND	274.84	AMT23002DA
Locator for use with AMT23002DA	AMT23009L-ND	38.98	AMT23009L

Tyco Electronics
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ELCON CROWN EDGE Connectors

CROWN EDGE socket connectors are a board-to-board power interconnect solution that uses ELCON high performance CROWN BAND contact technology configured to mate directly with a printed circuit board edge, or with a solid bus bar for higher currents. Power and signal can be combined and mounted end-to-end to meet the requirements of the applications.

Applications: • Board-to-board power connections • DC-DC converters • Uninterruptible power supply (UPS) • Power supplies

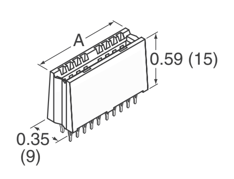

Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			ELCON Part No.
			1	25	100	
6 Power Contacts, Press Fit	1.56 (39.7)	A36248-ND	10.97	9.94	7.04	6650384-2
4 Power Contacts, Press Fit, Hot Pluggable	1.06 (26.8)	A36250-ND	8.06	7.30	5.17	6651331-1
16 Signal Contacts, Press Fit	1.06 (26.8)	A36251-ND	10.02	9.08	6.43	6650534-1

ELCON CROWN CLIP Sockets

CROWN CLIP sockets are compact, high-current socket connectors for high current bus bar power distribution. Using ELCON high performance CROWN BAND technology, CROWN CLIP sockets are available in single pole format to mate with a solid blade, handling up to 350 amps, or in dual pole format to mate with laminated bus bar tabs for feed and return currents.

Applications: • Bus bar based power distribution • Power racks • Rack mounted switching power supplies

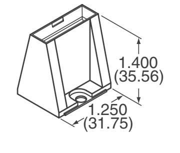

Description	Digi-Key Part No.	Price Each			ELCON Part No.
		1	25	100	
Socket Connector, Single Pole Float Mount	A36254-ND	15.56	14.09	9.98	1643906-1
Socket Connector, Dual Pole Float Mount	A36253-ND	5.67	5.14	3.64	1643903-1

ELCON RAPID LOCK Bus Bar Connectors

The RAPID LOCK connectors are single-pole, quick connect/disconnect replacement for lug connections, used in bus bar and backplane power distribution applications. RAPID LOCK connectors allow a reliable and safe connection, as well as better serviceability, than bolt-fitted lugs. The cable mounted sockets have a right angle configuration, and feature an insulator cap that provides the retention mechanism on the pin. The pin contacts can be attached to a bus bar by screw or swage, and to a backplane by press fit and backup screw.

Features: • Locking feature "snaps" each contact to mating pin • Low contact resistance • Up to 250A per contact

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	ELCON Part No.
1	Crown Socket Right Angle, Size #4, 8AWG Crimp	A36299-ND	14.20	12.87	9.12	6648235-1
2	Pin Contact, Size #4 Swage Mount, Locking Style — Press Fit	A36302-ND	6.57	5.96	4.22	6648222-1
3	Pin Contact, Size #4 Screw Mount, Locking Style — Press Fit	A36303-ND	13.73	12.44	8.81	6648224-1
4	Insulation Boot, Size #4 and #8, Red	A36305-ND	2.44	2.21	1.57	1651003-2
	Insulation Boot, Size #4 and #8, Grey	A36306-ND	2.44	2.21	1.57	1651003-3

Fig. 1

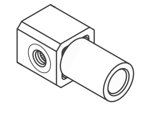

Fig. 2

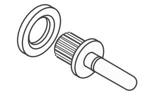

Fig. 3

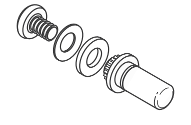

Fig. 4

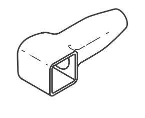

AMP Eurocard DIN Connectors

DIN Connectors — Mating Pin Size - .025" (.64mm) Square

Material: • Housing: Polyester, grey 94V-0 rated • Contacts: Phosphor bronze and copper alloy

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	Post Length Inch (mm) C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Type C Vertical Receptacle with Action Pin Posts								
Standard Size (PCB Thickness .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29047-ND◆	31.19	28.97	215912-4
	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29048-ND†	16.18	15.03	1-215912-4
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29049-ND	9.24	8.58	148057-5
	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A32866-ND◆	9.30	8.64	5148057-5
	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29052-ND◆†	14.88	12.40	1-148057-5
	96	3.740 (95.00)	3.543 (90.00)	.669 (16.99)	A29051-ND	11.68	10.85	148059-5
	96	3.740 (95.00)	3.543 (90.00)	.669 (16.99)	A32867-ND◆	11.14	10.35	5148059-5
	96	3.740 (95.00)	3.543 (90.00)	.669 (16.99)	A29050-ND◆†	17.36	16.12	1-148059-5
Type C Right Angle Plug with Action Pin Posts — RoHS Compliant								
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.689 (93.70)	3.500 (88.90)	.114 (2.90)	A29053-ND	14.00	13.00	215605-4

◆ ***RoHS Compliant*** † Precious metal plating in contact area and for 5.08 (.200) from tip of post; gold flash on remainder of post.

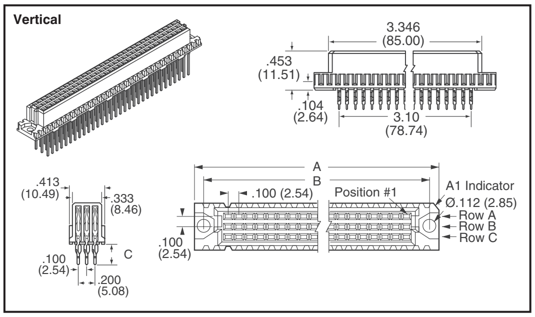

Shrouds

Shrouds are for use with all 96 position, 3 row, type C and R connectors (without mounting holes) mounted in .125" (3.18mm), .093" (2.36mm) and .062" (1.57mm) thick PC boards. Twelve interference areas are located in selected cavities.

Material: Polyester, gray, 94V-0 rated

PC Board Thickness - Inch (mm)	Use With Post Length - Inch (mm)	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29058-ND	1.68	1.57	533236-4
.125 (3.18)	.669 (16.99)	.250 (6.35)	.600 (15.24)	A29059-ND	6.50	6.04	533236-5
.093 (2.36)	.521 (13.23)	.135 (3.43)	.485 (12.32)	A29060-ND	2.58	2.40	533236-7
.062 (1.57)	.521 (13.23)	.165 (4.19)	.515 (13.08)	A29061-ND	12.91	11.99	1-533236-0
With Mounting Holes							
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29062-ND	2.00	1.86	535074-1

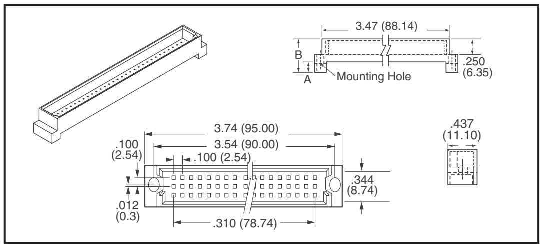

Keying Systems

Material: Polycarbonate, red, 94V-1 rated

Fig. 1

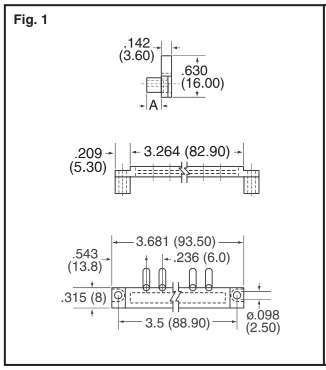

Fig. 2

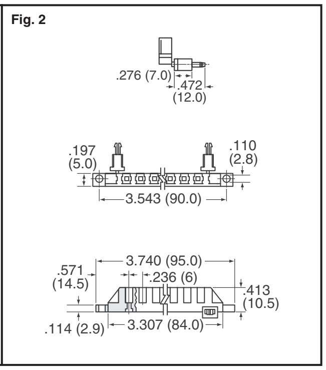

Fig.	Connector Type	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Pin Assembly Keying Strip						
1	C, D, F*, R	.236 (6.00)	A29065-ND	2.24	2.09	926495-1
	C, D, R	.165 (4.20)	A29066-ND	2.68	2.49	926495-4
Receptacle Assembly Keying Strip						
2	B, C, D, F, Q, R	—	A29067-ND†	2.60	2.42	926495-2

† Two Keying plugs are molded to the strip, additional quantities of plugs can be ordered separately.
* For Type F Cable mount only.

Vertical Receptacle Housing (Use Short Point Contacts)

Material: Housing - Polycarbonate, gray, 94V-1 rated

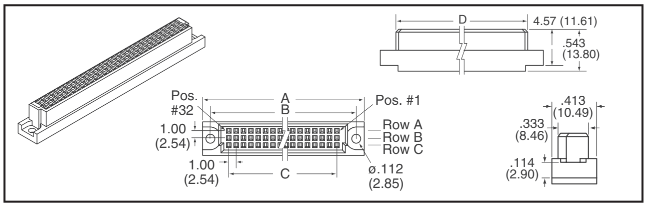

No. of Rows	No. of Pins	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Type C									
3	96	3.740 (95.00)	3.540 (90.00)	3.100 (78.74)	3.299 (83.80)	A29054-ND	5.46	5.07	925486-1
	48	2.142 (54.40)	1.949 (49.50)	1.500 (38.10)	1.740 (44.20)	A29055-ND	8.51	7.91	926040-2
Tool (not pictured)									
Extraction Tool						A29057-ND	72.27	—	91156-2

Two-piece Cable Clamp Assemblies

Material: Thermoplastic, gray, 94V-1 rated
Note: Kits are packaged unassembled.

Includes:

Cover (shell half), Screw M 2.5 (.10) x DIN 84, Hex. Nut M2.5 (.10) DIN 439, Cable outlet closing plate, Cable Boot, Screw M 2.5 (.10) x DIN 84, Strain Relief Clamp, Fixture for 180 degrees Cable outlet

Not supplied in kit: Guide Bracket, Pin Assembly, Receptacle Assembly

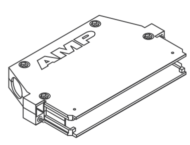

A29063-ND Cable Hood Kit, Type C and Type D (96 position). **$34.61/1, $803.40/25**

Z-PACK™ Connectors

2mm FB (Futurebus+)

The Z-PACK 2mm FB two-piece connector system uses a modular concept and a 2mm contact pitch to provide high-density, high-speed signal and power connections for Futurebus+ and Futurebus+ "like" applications.

Product Facts: • High-density connections; four-row and five-row, 2mm x 2mm circuit grid • Modular design for signal and power connections • Designed to meet International Specifications IEC 1076-4-0X (48B) and EIA SP3179 • Module assemblies are end-to-end stackable • Choice of solder leads or compliant press-fit leads • Flat rock receptacle tooling • Unique "cold hold" receptacle retention feature requires no tooling for lower applied cost • Integral receptacle lead organizer **Contact Material**: • Signal/Power Pin: Phosphor bronze, gold over palladium nickel over nickel plating • Signal Receptacle: Copper nickel zinc, gold over palladium nickel over nickel plating • Power Receptacle: Beryllium copper, gold over palladium nickel over nickel plating **Housing:** High temperature thermoplastic, liquid crystal polymer.

Fig. 1

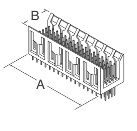

Signal Module, Vertical Pin

Fig. 2

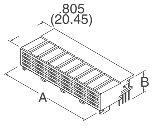

Signal Module, Right Angle Receptacle

Fig. 3

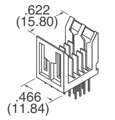

Power Module, Vertical Pin

Fig. 4

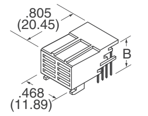

Power Module, Right Angle Receptacle

Fig.	Description	No. of Pos.	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	With Solder Leads	24	.468 (11.88)	.622 (15.8)	A31555-ND	3.67	3.31	5536501-1
	With Solder Leads	48	.940 (23.88)	.622 (15.8)	A31556-ND	5.61	5.05	5536501-2
	With Solder Leads	96	1.885 (47.88)	.622 (15.8)	A31557-ND	11.55	10.40	5536501-3
	With Solder Leads	192	3.775 (95.89)	.622 (15.8)	A31558-ND	16.53	14.88	5536501-4
	With Compliant Press-Fit Leads	24	.468 (11.88)	.622 (15.8)	A31559-ND	3.02	2.73	5536504-1
		30	.468 (11.88)	.701 (17.8)	A97832-ND	5.38	4.88	5223002-1
		30	.468 (11.88)	.701 (17.8)	A99412-ND†	6.15	5.54	5223016-1
		48	.940 (23.88)	.622 (15.8)	A31560-ND	5.46	4.92	5536504-2
		60	.940 (23.88)	.701 (17.8)	A97833-ND	8.96	8.12	5223002-2
		60	.940 (23.88)	.701 (17.8)	A99413-ND†	10.26	9.24	5223016-2
		96	1.885 (47.88)	.622 (15.8)	A31561-ND	16.20	14.58	5536504-3
		120	1.885 (47.88)	.701 (17.8)	A97834-ND	9.65	8.74	5223002-4
		120	1.885 (47.88)	.701 (17.8)	A99414-ND†	18.69	16.83	5223016-4
		192	3.775 (95.88)	.622 (15.8)	A99411-ND	16.92	15.23	5536504-4
2	With Solder Leads	24	.468 (11.88)	.454 (11.53)	A31562-ND	2.67	2.42	5536507-1
	With Solder Leads	24	.468 (11.88)	.485 (12.33)	A31567-ND	15.13	13.71	5536510-1
	With Solder Leads	30	.468 (11.88)	.524 (13.3)	A97838-ND	3.68	3.34	5223004-1
	With Solder Leads	30	.468 (11.88)	.454 (11.53)	A97840-ND	3.63	3.29	5223007-1
	With Solder Leads	48	.940 (23.88)	.454 (11.53)	A31563-ND	4.77	4.32	5536507-2
	With Solder Leads	48	.940 (23.88)	.485 (12.33)	A31568-ND	6.68	6.05	5536510-2
	With Solder Leads	60	.940 (23.88)	.524 (13.3)	A97839-ND	5.25	4.76	5223004-2
	With Solder Leads	96	1.885 (47.88)	.454 (11.53)	A31564-ND	8.27	7.49	5536507-3

Fig.	Description	No. of Pos.	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
2	With Solder Leads	96	1.885 (47.88)	.485 (12.33)	A31569-ND	9.78	8.86	5536510-3
	With Solder Leads	120	2.36 (59.88)	.454 (11.53)	A31566-ND	12.64	11.45	5536507-6
	With Solder Leads	192	3.775 (95.89)	.454 (11.53)	A31565-ND	15.85	14.36	5536507-4
	With Solder Leads	192	3.775 (95.89)	.485 (12.33)	A31570-ND	15.34	13.90	5536510-4
	With Solder Leads	240	3.775 (95.88)	.524 (13.3)	A97884-ND	19.66	17.81	5223004-8
	With Compliant Press-Fit Leads	24	.468 (11.88)	—	A31571-ND	3.71	3.36	5536511-1
		30	.468 (11.88)	.524 (13.3)	A97842-ND	3.92	3.56	5223008-1
		48	.940 (23.88)	—	A31572-ND	4.40	3.99	5536511-2
		60	.940 (23.88)	.524 (13.3)	A97843-ND	10.04	9.10	5223008-2
		96	1.885 (47.88)	—	A31573-ND	8.45	7.66	5536511-3
		120	1.885 (47.88)	.524 (13.3)	A97844-ND	11.45	10.37	5223008-4
		192	3.775 (95.89)	—	A31574-ND	21.94	19.88	5536511-4
		240	3.775 (95.89)	.524 (13.3)	A97845-ND	31.56	28.59	5223008-8
3	With Solder Leads	8	—	—	A31575-ND	3.71	3.36	5536600-1
	With Compliant Press-Fit Leads	8	—	—	A31576-ND	3.71	3.36	5536603-1
4	With Solder Leads	8	—	.454 (11.53)	A31577-ND	3.98	3.60	5536607-1
	With Solder Leads	8	—	.46 (11.8)	A31578-ND	5.94	5.38	5536613-1
	With Compliant Press-Fit Leads	8	—	—	A31579-ND	6.92	6.27	5536614-1
—	Vertical, 5 Row Signal Shroud	30	—	—	A97835-ND	3.50	3.17	223041-1
		60	—	—	A97836-ND	5.91	5.36	223041-2
		90	—	—	A97837-ND	4.93	4.47	223041-3

† 5.75mm Mating Post Length

2mm HM PCB

Features: • Z-PACK 2mm HM connectors comply with the requirements of IEC 917 and IEC 61076-4-101 • Complies with IEC 950 in mated condition • Signal Contact Rating 1.5A
Applications: • Telecommunication, computer and instrumentation applications

Fig. 1

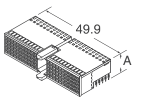

Fig. 2

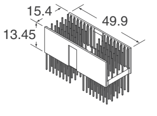

Fig. 3

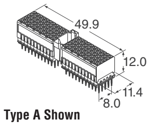

Type A Shown

Fig. 4

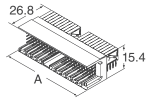

Type A Shown

Fig. 5

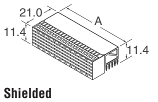

Shielded Recept. Shown

Fig. 6

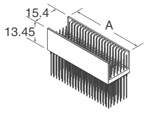

Fig. 7

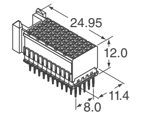

Fig. 8

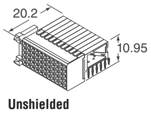

Unshielded Recept. Shown

Fig. 9

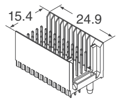

Fig. 10

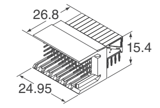

Fig. 11

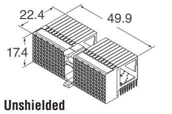

Unshielded Recept. Shown

Fig. 12

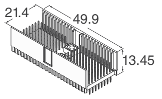

Type D Shown

Fig. 13

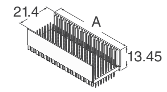

Type E Shown

Fig. 14

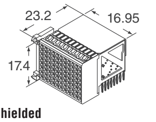

Shielded Recept. Shown

Fig. 15

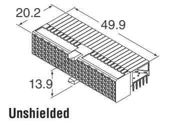

Unshielded Recept. Shown

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A mm	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
			Type A					
1	110	5	Shielded Receptacle	11.4	A31550-ND	11.58	7.26	5352068-1
	110	5	Receptacle	10.95	A97855-ND	7.50	6.80	5100147-1
2	100	5 + 1	Header	—	A97881-ND	5.43	4.92	5352352-1
	110	5	Header	—	A97846-ND	4.93	4.47	5100143-1
	110	5	Header	—	A97812-ND	8.69	7.88	5106164-1
	154	5 + 2	Header	—	A31547-ND	11.16	10.05	5188834-1
	154	5 + 2	Header	—	A97852-ND	10.10	9.15	5106509-
	154	5 + 2	Header	—	A97847-ND	6.10	5.52	5100668-1
	154	5 + 2	Header	—	A97880-ND	6.81	6.17	5352332-1
3	110	5	Receptacle	—	A97873-ND	16.62	15.05	5106773-1
4	110	5	Header	49.9	A97870-ND	17.97	16.28	5106015-1
			Type B					
3	125	5	Receptacle	—	A97874-ND	17.97	16.28	5106774-1
4	95	5	Header	37.9	A97825-ND	20.88	18.92	5352406-1
	110	5	Header	43.9	A97824-ND	18.31	16.59	5352131-1
	125	5	Header	49.9	A97871-ND	26.31	23.84	5106014-1
5	95	5	Shielded Receptacle	37.9	A31554-ND	11.18	7.01	5352171-1
	110	5	Shielded Receptacle	43.9	A31553-ND	12.00	7.52	5352152-1
	125	5	Receptacle	49.9	A97856-ND	10.15	9.20	5100145-1
	125	5	Shielded Receptacle	49.9	A97858-ND	11.00	9.96	5352069-1
6	125	5	Header	49.9	A97853-ND	8.27	7.49	5106165-1
	125	5	Header	49.9	A97848-ND	5.64	5.12	5100141-1
	154	5 + 2	Header	43.9	A31548-ND	9.09	8.19	5188835-1
	154	5 + 2	Midplane, Header	43.9	A31552-ND	10.86	9.78	5352128-1
	175	5 + 2	Header	49.9	A97849-ND	6.92	6.27	5100669-1
	175	5 + 2	Header	49.9	A97854-ND	11.29	10.23	5106510-1
—	133	5 + 2	Header	—	A31549-ND	6.39	5.76	5352033-1
	133	5 + 2	Midplane, Header	—	A31551-ND	11.28	10.16	5352127-1
			Type A/B					
6	127	5 + 2	Header	37.9	A97831-ND	6.89	6.24	5646532-1
	146	5 + 2	Header	43.9	A97814-ND	6.52	5.91	5646533-1
	169	5 + 2	Header	49.9	A97813-ND	9.20	8.33	5646529-1
			Type C					
7	55	5	Receptacle	—	A97875-ND	12.67	11.48	5106775-1
8	55	5	Shielded Receptacle	—	A97815-ND	7.63	6.92	5352115-1
	55	5	Receptacle	—	A97857-ND	4.69	4.25	5100161-1
9	55	5	Header	—	A97850-ND	2.76	2.50	5100159-1
	77	5 + 2	Header	—	A97851-ND	8.03	7.28	5106081-1
10	55	5	Header	—	A97872-ND	14.95	13.54	5106012-1

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A mm	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
			Type D					
11	176	8	Receptacle	—	A97865-ND	11.71	10.61	5646442-1
	176	8	Shielded Receptacle	—	A97868-ND	15.74	14.26	5646486-1
12	176	8	Header	—	A97861-ND	6.44	5.84	5646346-1
	220	8 + 2	Header	—	A97818-ND	14.63	13.25	5646356-1
			Type D/E					
11	200	8	Receptacle	—	A97821-ND	13.14	11.91	5646728-1
	200	8	Shielded Receptacle	—	A97823-ND	17.17	15.56	5646759-1
12	200	8 + 2	Header	—	A97820-ND	10.12	9.17	5646951-1
			Type E					
11	200	8	Shielded Receptacle	—	A97869-ND	17.12	15.51	5646487-1
	200	8	Receptacle	—	A97866-ND	13.20	11.96	5646445-1
13	200	8	Header	49.9	A97862-ND	11.00	9.96	5646347-1
	250	8 + 2	Header	49.9	A97863-ND	9.14	8.28	5646357-1
			Type F					
13	88	8	Header	24.9	A97864-ND	3.29	2.98	5646457-1
	88	8 + 2	Header	24.9	A97819-ND	5.99	5.43	5646513-1
14	88	8	Shielded Receptacle	—	A97822-ND	9.30	8.43	5646492-1
	88	8	Receptacle	—	A97867-ND	6.28	5.69	5646446-1
15	95	5	Shielded Receptacle	—	A97860-ND	11.32	10.25	5646488-1
	110	5	Shielded Receptacle	—	A97859-ND	12.27	11.12	5646489-1
	110	5	Shielded Receptacle	—	A97817-ND	12.22	11.07	5646547-1
	125	5	Receptacle	—	A97816-ND	8.85	8.02	5646574-1

Description	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
Shrouds				
154 Positions, Type A Receptacle	A97826-ND	3.42	3.10	646478-5
175 Positions, Type B Receptacle	A97827-ND	4.85	4.40	646479-5
154 Positions, Type B Receptacle	A97828-ND	6.49	5.88	646482-5
127 Positions, Type A/B Receptacle	A97829-ND	5.17	4.68	646483-5
150 Positions, Type A/B Receptacle	A97830-ND	3.34	3.03	646484-5
Male Coding Keys				
Cadmium Yellow	A29828-ND	.62	.57	5-100525-6
Brilliant Blue	A29829-ND	.73	.66	3-100525-2
Strawberry Red	A97877-ND	1.22	1.11	100525-9
Female Coding Keys				
Cadmium Yellow	A29833-ND	.76	.69	5-100526-6
Brilliant Blue	A29834-ND	.64	.58	3-100526-2
Strawberry Red	A97879-ND	.78	.71	100526-9

Z-PACK™ Universal Power Modules

Dimensions in mm

Material and Finish: • Housing: PBT, Natural Color, UL 94V-0

Specifications: • Durability: 250 Cycles • Vertical Standard Power 10A • Right Angle High Power 16A

Fig.	Description	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Vertical Receptacle	A97882-ND	5.78	5.24	5223955-2
2	Right Angle Header	A97883-ND	6.04	5.48	5223961-1

Fig. 1

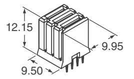

Fig. 2

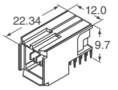

Z-PACK™ TinMan Connectors

Material and Finish: • Contact: High Strength Copper Alloy • Housing: Liquid Crystal Polymer **Specifications:** • 10+ Gbps performance • 100Ω impedance for differential pair configuration • 5 pair version offers 26 pairs/10mm (66 differential pairs/inch) fitting within a 25.40 (1.00) card slot pitch • 3 pair version offering 16 pairs/10mm (40 differential pairs/inch) fitting within a 16.25 (.625) card slot pitch • Reliable, redundant contact design on every signal contact • Meets industry reliability requirements of Bellcore/Telcordia • Sequencing for ground and signal contacts

Fig.	Description	Dim. - mm A	B	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	Receptacle 5x8	31.81	24.4	A99839-ND	14.48	13.09	1934218-1
	Receptacle 3x8	23.41	16.0	A99840-ND	11.22	10.10	1934226-1
2	Header 5x8	24.40	—	A99841-ND	9.18	8.27	1934269-1
	Header 3x8	16.00	—	A99842-ND	5.52	4.97	1934299-1

Fig. 1

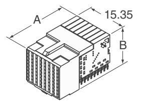

Fig. 2

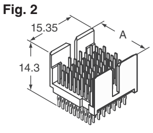

NEW! Z-PACK™ Impact™ High Density Backplane Connectors

Dimensions in mm

Designed for increased speed and density to meet the future system upgrades and next generation requirements of data networking and telecommunications equipment. The Impact connector design system contains a unique broad-edge coupled design which utilizes low impedance, localized ground return path in an optimized differential pair array. Additionally, differential pairs are tightly coupled and surrounded by ground structures to isolate the pairs, which in turn reduces crosstalk and increases overall bandwidth performance with minimal performance variance.

Features: • 25Gb/s performance • 100Ω Impedance • Built in guidance available for improved mating alignment and to maximize available PCB real estate **Applications**: Ideal for high speed, backplane applications: • Switches • Servers/Blade Servers • Routers • Storage

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1	Header 3x10	A100860-ND	10.29	9.27	8.24	2007788-2
2	Receptacle 3x10	A100861-ND	15.45	13.91	12.36	2007705-1

Fig. 1

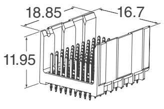

Fig. 2

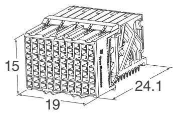

VITA 41/46 Connectors

Vita 41 is an ANSI standard that combines parallel VMEbus with enhancements to support switched serial fabrics including PCI Express, RapidIO, StarFabric and InfiniBand over a new high speed P0 connector. Backward compatibility is maintained with existing backplanes that do not have a conflicting P0 scheme. Combining the VME2eSST parallel bus with switch fabric technologies for multi-point, high-speed data transfers creates choices for embedded computing designs of all types. The standard also incorporates ANSI/VITA 1.7, allowing more DC power input into each board.

MULTIGIG RT @ VITA 46 Compliant Backplane Connector System represents the leading edge of avionics and vehtronics backplane connector technology. Originally chosen for the VITA 41 VXS standard, the connector was again chosen and evolved by the VITA 46 VPX working group for rugged applications demanding extreme electrical and mechanical performance. The connector features the highest data rate for a ruggedized connector and unique physical attributes making it suitable for mobile and level 2 maintenance applications.

Features: • Pinless daughtercard • Printed circuit board style wafers for unique resistance to damage • Ease of reconfiguration and integration of ESD features • Backplane half of the connector features shrouded contacts eliminating the potential for contact damage • Rated to 6.4Gb/s in support of the VITA 46 document, the connector has been demonstrated to support data rates greater than 10Gb/s

Fig. 1 — VITA 41 Payload Board and Payload Slot

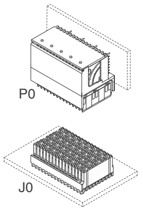

Fig. 2 — VITA 41 Rear Transition Module

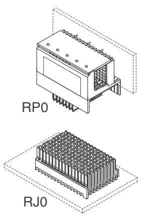

Fig. 3 — VITA 41 Switch Board and Switch Slot

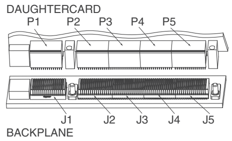

Fig. 4 — VITA 46 6U

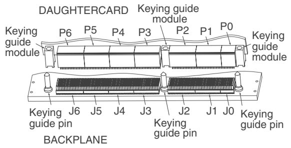

Fig.	Description	Location	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
			VITA 41				
1	Daughtercard	P0	A99168-ND	109.74	99.39	70.40	1410147-1
	Backplane	J0	A99164-ND	33.60	30.44	21.56	1410135-1
2	Daughtercard	RP0	A99173-ND	83.69	75.80	53.69	1410303-1
	Backplane	RJ0	A99167-ND	23.40	21.20	15.02	1410992-3
3	Backplane	J1	A99165-ND	39.51	35.79	25.35	1410420-1
	Backplane	J5	A99166-ND	34.87	31.59	22.38	1410141-1
	Daughtercard	P1	A99169-ND	122.62	111.05	78.66	1410421-1
	Daughtercard	P2	A99170-ND	123.20	111.58	79.04	1410139-1
	Daughtercard	P3, P4	A99171-ND	122.93	111.34	78.87	1410137-1
	Daughtercard	P5	A99172-ND	123.07	111.46	78.95	1410138-1
			VITA 41/46				
4	Backplane	J0	A99136-ND	20.14	18.24	12.92	1410186-1
3 4	Backplane Backplane	J3, J4 J1, J3, J4, J5	A99137-ND	34.87	31.59	22.38	1410140-1
3 4	Backplane Backplane	J2 J2, J6	A99138-ND	34.87	31.59	22.38	1410142-1
			VITA 46				
4	Daughtercard	P0	A99142-ND	72.05	65.26	46.23	1410189-3
	Daughtercard	P1, P2, P3, P4, P5, P6	A99143-ND	139.63	126.46	89.58	1410187-3
	Daughtercard	P2, P3, P4, P5, P6	A99144-ND	139.63	126.46	89.58	1410190-3
	Backplane	Key Guided Pin	A99152-ND	5.54	5.02	3.56	1-1469491-2

Fig.	Description	Location	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
4	Backplane	Key Guided Pin	A99153-ND	5.64	5.12	3.63	1-1469491-3
	Backplane	Key Guided Pin	A99154-ND	5.64	5.12	3.63	1-1469491-4
—	Key Guided Pin Kit	Midplane	A99155-ND	71.29	64.56	45.73	1410956-1
4	0°	Module Key Guide Daughtercard	A99156-ND	7.21	6.53	4.63	1-1469492-1
	45°	Module Key Guide Daughtercard	A99157-ND	7.21	6.53	4.63	1-1469492-2
	90°	Module Key Guide Daughtercard	A99158-ND	7.21	6.53	4.63	1-1469492-3
	270°	Module Key Guide Daughtercard	A99159-ND	7.21	6.53	4.63	1-1469492-7
	315°	Module Key Guide Daughtercard	A99160-ND	7.21	6.53	4.63	1-1469492-8
	Without Keying	Module Key Guide Daughtercard	A99161-ND	7.37	6.68	4.73	1-1469492-9
—	3.5mm	Module Retaining Screw	A99162-ND	.95	.87	.62	1410946-1
	5.5mm	Module Retaining Screw	A99163-ND	5.30	4.80	3.40	1410946-2
			7 Row VITA 46				
—	Backplane	Center	A99139-ND	34.93	31.64	22.41	1410964-1
	Backplane	Center	A99140-ND	25.41	23.02	16.31	1410965-1
	Backplane	Center	A99141-ND	27.06	24.51	17.36	1410966-1
	Daughtercard	Right End	A99145-ND	140.45	127.20	90.10	1410188-3
	Daughtercard	Right End	A99146-ND	140.45	127.20	90.10	1410191-3
	Daughtercard	Center	A99147-ND	132.69	120.17	85.12	1410968-3
	Daughtercard	Center	A99148-ND	139.39	126.24	89.42	1410970-3
	Daughtercard	Half Left End	A99149-ND	76.29	69.10	48.95	1410971-3
	Daughtercard	Half Left End	A99150-ND	72.40	65.57	46.45	1410972-3
	Daughtercard	Center	A99151-ND	139.13	126.00	89.25	1410975-3

.050 Series PCI Connectors

Product Facts:

• High density .050 [1.27] centerline contact spacing • Easy mating of high circuit count daughter boards • Polarizing web for positive board-to-connector registration

Performance Characteristics:

• **Durability:** Tested to 100 mating cycles • **Current Rating:** 1A maximum • **Voltage Rating:** 203VAC • **Thermal Shock:** -55°C ~ 85°C for 5 cycles

Fig. 1

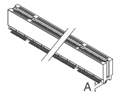

Fig. 2

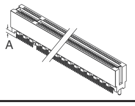

Fig.	No. of Dual Positions	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
1	92	.095 (2.41)	A97895-ND	6.55	4.11	6489934-1
	60	.180 (4.57)	A97907-ND	3.98	2.49	5145098-1
2	60	.100 (2.54)	A97905-ND	3.84	2.41	5145154-4
	60	.125 (3.18)	A97906-ND	3.84	2.41	5145154-8
	92	.100 (2.54)	A97908-ND	3.95	2.48	5145165-4

PCI Express Connectors

Tyco Electronics Card Edge Connector for PCI Express applications is a 1mm centerline card edge product designed to meet PCI SIG requirements for PCI Express architecture. PCI Express architecture is a high performance point to point full duplex I/O Bus.

Ratings: • **Operating:** -40°C ~ 85°C • **Durability:** 50 Cycles • **Current Rating:** 1.1A • **Voltage Rating:** 50VAC

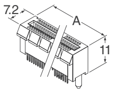

No. of Dual Positions	Dim. A - mm	Digi-Key Part No.	Price Each 1	25	Tyco Electronics Part No.
32	39	A97898-ND	1.51	.95	2-1612163-2
18	25	A97897-ND	1.14	.72	4-1612163-1
49	56	A97899-ND	2.41	1.52	4-1612163-3
82	89	A97900-ND	4.08	2.56	4-1612163-4
18	25	A97901-ND	1.17	.74	5-1612163-1
32	39	A97902-ND	1.75	1.10	5-1612163-2
49	56	A97903-ND	2.41	1.52	5-1612163-3
82	89	A97904-ND	3.92	2.46	5-1612163-4

AirMax VS® High Speed Connector System

RoHS COMPLIANT

The AirMax VS connector is a revolutionary connector system that offers scalability, flexibility, high density and headroom in performance. "VS" stands for Virtual Shield as this technology requires no interleaving shields. The elimination of these shields results in lower cost, lower weight and offers greater flexibility.

AirMax VS high-speed signal connectors, guide modules, and power connectors serve to connect SSI Compute Blade, Mezzanine, and Chassis Management Modules to the Midplane or Backplane.

Features: • Shieldless connector system • High pin density per module • Designed to fit HM (hard metric) building practice • No pre-assigned ground pins • Excellent electrical performance • Low weight and low mating forces

Fig. 1

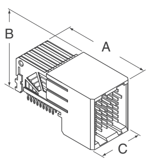

Fig. 2

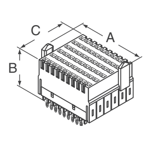

Fig. 3

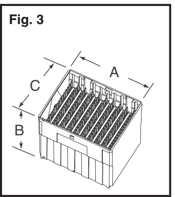

Fig. 4

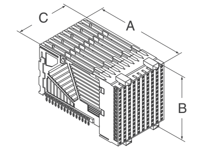

Fig. 5

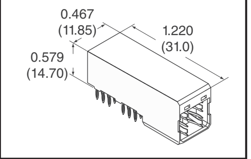

Fig. 6

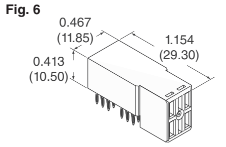

Fig. 7

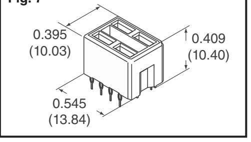

No. of Pos.	No. of Pairs	Pitch Typ. (mm)	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			FCI Part No.
			A	B	C		1	25	100	
Fig. 1 — Right Angle Headers										
54	3	2.0	1.165 (29.60)	0.451 (11.45)	0.547 (13.90)	609-2104-ND	8.22	5.83	5.37	10039851-101LF
90	3	2.0	1.165 (29.60)	0.451 (11.45)	0.862 (21.90)	609-2092-ND	13.11	9.54	8.65	10034249-101LF
96	4	1.40	1.331 (33.80)	0.600 (15.25)	0.705 (17.90)	609-3685-ND† ***NEW!***	15.83	11.51	10.44	10084604-111LF
120	4	2.0	1.331 (33.80)	0.600 (15.25)	0.862 (21.90)	609-2838-ND	14.61	10.63	9.63	10028436-101LF
120	4	1.40	1.331 (33.80)	0.600 (15.25)	0.862 (21.90)	609-3683-ND† ***NEW!***	17.99	13.28	12.21	10084600-111LF
150	5	2.0	1.496 (38.00)	0.781 (19.85)	0.862 (21.90)	609-2089-ND	15.58	11.93	10.91	10025613-101LF
150	5	3.0	1.496 (38.00)	0.781 (19.85)	1.256 (31.90)	609-2099-ND	17.14	12.47	11.30	10037324-101LF
Fig. 2 — Vertical Receptacles										
54	3	2.0	0.610 (15.50)	0.421 (10.70)	0.469 (11.90)	609-2105-ND	6.97	4.80	4.36	10043546-101LF
90	3	2.0	0.610 (15.50)	0.421 (10.70)	0.783 (19.90)	609-2093-ND	10.91	7.91	7.03	10034251-101LF
96	4	1.40	0.744 (15.50)	0.421 (10.70)	0.626 (15.90)	609-3686-ND† ***NEW!***	10.63	7.54	6.94	10084605-101LF
120	4	2.0	0.744 (18.90)	0.421 (10.70)	0.783 (19.90)	609-2837-ND	9.76	7.33	6.84	10028264-101LF
120	4	3.0	0.744 (18.90)	0.421 (10.70)	1.177 (29.90)	609-2096-ND	26.94	19.60	17.76	10035465-101LF
120	4	1.40	0.744 (18.90)	0.421 (10.70)	0.783 (19.90)	609-3684-ND† ***NEW!***	13.49	9.78	8.70	10084601-101LF
150	5	2.0	0.941 (23.90)	0.421 (10.70)	0.783 (19.90)	609-2088-ND	13.92	10.13	9.02	10016537-101LF
150	5	3.0	0.941 (23.90)	0.421 (10.70)	1.177 (29.90)	609-2095-ND	13.92	10.13	9.02	10035146-101LF
Fig. 3 — Vertical Header										
150	5	3.00	1.252 (31.8)	1.181 (30)	1.047 (26.6)	609-3472-ND	33.57	20.84	18.87	10059957-1071LF
Fig. 4 — Right Angle Receptacles										
54	3	2.0	1.020 (25.90)	0.610 (15.50)	0.469 (11.90)	609-3447-ND	17.44	12.69	11.30	10053656-101LF
120	4	2.0	1.185 (30.10)	0.585 (14.85)	0.783 (19.90)	609-2098-ND	21.88	15.92	14.18	10035754-101LF
150	5	2.0	1.350 (34.30)	0.766 (19.45)	0.783 (19.90)	609-2094-ND	22.25	16.43	15.10	10034475-101LF
Fig. 5 — Right Angle Power Header										
4	—	2.0	—	—	—	609-2091-ND	7.28	5.01	4.56	10028917-001LF
4	—	2.0	—	—	—	609-3689-ND† ***NEW!***	8.51	5.36	4.83	10084603-001LF
Fig. 6 — Right Angle Power Receptacle										
4	—	2.0	—	—	—	609-2109-ND	7.15	4.92	4.47	10052620-4444P00LF
Fig. 7 — Vertical Power Receptacle										
4	—	2.0	—	—	—	609-2090-ND	9.33	6.35	5.60	10028916-4555P00LF
4	—	2.0	—	—	—	609-3690-ND† ***NEW!***	8.96	6.35	5.60	10084602-4554P00LF
Accessories										
7.2 mm Guide Blade - External Thread						609-2100-ND	3.31	2.13	1.90	10037908-101LF
7.2 mm Guide Module Receptacle						609-2101-ND	4.15	2.69	2.46	10037909-101LF
10.7 mm Guide Pin - External Thread						609-2102-ND	3.58	2.24	2.05	10037911-101LF
10.7 mm Guide Module Receptacle						609-2103-ND	4.61	3.07	2.75	10037912-101LF
10.8 mm Guide Pin - External Thread						609-3687-ND† ***NEW!***	4.22	2.62	2.38	10084610-101LF
10.8 mm Guide Module Receptacle without ESD						609-3688-ND† ***NEW!***	5.40	3.44	3.15	10084609-111LF
7.2 mm Guide Blade Co-Planar						609-2106-ND	3.92	2.50	2.28	10044314-101LF
10.8 mm Right Angle Guide Pin Co-Planar						609-3448-ND	3.84	2.37	2.09	10044366-101LF
7.2 mm Right Angle Guide Socket						609-2107-ND	4.06	2.64	2.41	10045367-101LF
7.2 mm Vertical Guide Pin						609-2108-ND	3.31	2.13	1.90	10045368-101LF

† Server System Infrastructure (SSI) Standard Parts

MicroTCA™ Vertical Card Edge Connectors

RoHS COMPLIANT

MicroTCA (µTCA™) vertical card edge connectors provide 170 contacts on 0.75mm pitch and enable AdvancedMC™ (AMC™) modules to be plugged directly to a backplane. FCI connectors are in full compliance with the MicroTCA standard. The press-fit version accommodates speeds up to 10 Gb/s, and the SMT version supports speeds of 10 Gb/s and beyond. FCI's MicroTCA connectors are designed for low manufacturing cost through the use of proven connector manufacturing processes, low cost materials and a minimal number of components. Capability for connector installation using standard press-fit or SMT assembly processes, combined with connector designs that require no costly hardware, secondary mechanical retention or compensating board stiffeners, result in low total applied cost. Metal retention clips on the SMT connectors provide additional mechanical strength after soldering.

Fig. 1

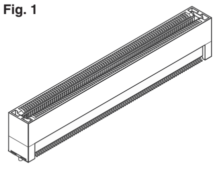

Fig. 2

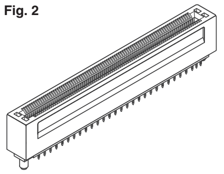

Fig.	Mounting Style	Spacing (mm)	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
1	SMT	0.75	609-3133-ND	20.39	15.05	13.84	10058835-1000LF
2	Press Fit with pegs	0.75	609-3134-ND	20.34	15.02	13.81	10058831-110LF
	Press Fit without pegs	0.75	609-3135-ND	20.34	15.02	13.81	10058831-111LF

ZipLine™ High Density, High Performance Connector System

RoHS COMPLIANT

The ZipLine connector system addresses customer demand for maximum signal density, a paramount requirement for future equipment platforms at data rates up to 12.5 Gb/s. The initial ZipLine signal modules with 1.8mm column pitch support backplane and orthogonal midplane applications. A module with 72 differential pairs consisting of 12 insert molded leadframe assemblies (IMLAs), each supporting 6 high speed differential signal pairs provides the maximum density available by delivering 84.6 differential pairs per inch of card edge. The connector system leverages FCI proven AirMax VS® technology, similar signal integrity performance, power and guide modules and Hard Metric (HM) equipment design practice. ZipLine connectors use AirMax VS edge coupling technology to deliver low insertion loss and crosstalk without using costly and space consuming metals shields. Data rates can scale up to 12.5 Gb/s without requiring the redesign of a basic platform.

Fig.	Description	Spacing (mm)	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
1	Vertical Backplane Header	1.8	609-3136-ND	21.73	16.63	15.21	10076197-101LF
2	Vertical Orthogonal Midplane	1.8	609-3137-ND	25.12	19.22	17.59	10076222-101LF
3	Right Angle Receptacle	1.8	609-3138-ND	25.40	19.44	17.78	10076209-101LF
4	Right Angle Header	1.8	609-3455-ND	26.92	20.20	18.85	10077555-101LF

Fig. 1

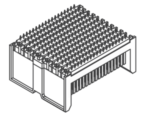

Fig. 2

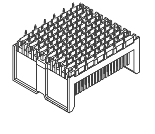

Fig. 3

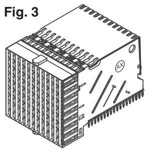

Fig. 4

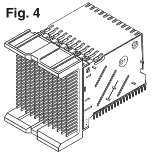

HIROSE ELECTRIC CO., LTD.

2mm Hard Metric Connector

RoHS COMPLIANT

Applications: Switchboards, transmission systems, Cellular base stations, industrial computer boards, measuring instruments, control equipment. Product Specifications: • Rated Current: 1.5A • Operating Temperature: -55 ~ 85°C • Rated Voltage: AC 300V Material: Headers and Receptacle - Insulator: PBT resin, Gray Terminal: Phosphor bronze PCN21A - Contact Area: Nickel base, gold plating PCB Leads: Nickel base, gold plating Receptacle Shield: Phosphor bronze PCN21B - Contact Area: Nickel base, gold plating PCB Leads: Nickel base, tin plating UL94V-0

No. of Pos.	Description	Digi-Key Part No.	Price Each		Hirose Part No.
			1	25	
110	Header Style A, Male, Short Pin with Ground	H3201-ND	6.76	5.46	PCN21B-110PA-2PF-G
125	Receptacle Style B, Female, without Ground Plate	H3209-ND	9.20	7.60	PCN21B-125SB-2PF
110	Header Style B, Male, Short Pin	H3204-ND	6.76	5.25	PCN21B-110PB-2PF
110	Header Style B, Male, Short Pin with Ground	H3205-ND	6.76	5.46	PCN21B-110PB-2PF-G
125	Header Style B, Male, Short Pin	H3202-ND	6.82	5.29	PCN21B-125PB-2PF
55	Header Style C, Male, Short Pin with Ground	H3207-ND	4.79	3.72	PCN21B-55PC-2PF-G
—	Coding Key for Female Receptacle, Yellow - 3.3V	H3214-ND	.53	.32	PCN21-S-CK(A)
—	Coding Key for Female Receptacle, Blue - 5V	H3216-ND	.53	.32	PCN21-S-CK(B)

Type A
Female

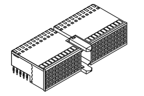

Type A
Male

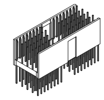

Type B
Female

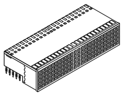

Type B
Male

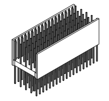

Type C
Male

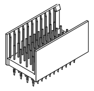

Mini Serial Attached SCSI (miniSAS) Connectors

• 6 Gb/s input/output connector for server applications • Meets SFF-8086 Specification • Meets SAS Specification SAS-1.1

Specifications:

Physical: • Insulation Material: High Temperature Thermoplastic Flammability: UL 94V-0 Color: Black • Contact Material: Copper Alloy • Wiping Area Plating: 30µ" Gold • Solder Tails Plating: 100µ" Matte Tin • Backshell Material: Stainless Steel **Electrical:** • Current Rating: Per Contact: 0.5A • Insulation Resistance: 10^3MΩ minimum • Operating Temperature: -20°C ~ 85°C

Dimensions in mm

Fig. 1

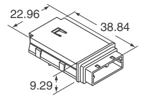

Fig. 2

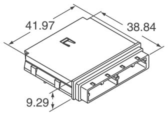

Fig. 3

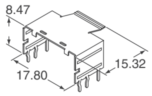

Fig. 4

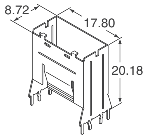

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
		Right Angle Surface Mount Receptacle/Metal EMI Cage					
—	26	Mini SAS Right Angle Connector	3M5636-ND	4.80	4.16	3.36	8A26-2030-LJ
1	26	Single Key Shell	3M5643-ND	3.69	3.20	2.59	8C26-14000
2	26	Dual Key Shell	3M5644-ND	5.10	4.42	3.57	8C26-24400
		Right Angle Receptacle/Right Angle Shell					
—	36	Mini SAS Right Angle Connector	3M5638-ND	5.01	4.35	3.51	8A36-2030-LJ
3	36	Dual Key R/A Press Fit Shell	3M5641-ND	.99	.86	.70	8B36-2411
3	36	Dual Key R/A Thru-Hole Shell	3M5642-ND	.99	.86	.70	8B36-2421
		Vertical Receptacle/Vertical Shell					
—	36	Mini SAS Vertical Connector	3M5637-ND	5.01	4.35	3.51	8A36-1030-LJ
4	36	Dual Key Vertical Press Fit Shell	3M5639-ND	.99	.86	.70	8B36-1410
4	36	Dual Key Vertical Thru-Hole Shell	3M5640-ND	.99	.86	.70	8B36-1420

Serial Attached SCSI (SAS) Connectors

• 3.0Gbps input/output connector for backplane applications • Two contact mating levels for early-mate and late-break allows "blind mating" or "hot swap" applications • Capable of accepting HDD fitted with SAS or Serial Advanced Technology Attachment (SATA) Header • Meets SFF-8482 Specifications • Meets SAS Specification, SAS-1.1

Specifications: • Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: 50 ~ 80µ" Nickel Wiping Area: 30 ~ 40µ" Gold Solder Tails: 100 ~ 200µ" Tin • Current Rating: Power Pin: 1.5A • Operating Temperature: 0°C ~ 55°C

Dimensions in Inches (mm)

Fig. 1

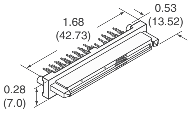

Fig. 2

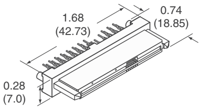

Fig. 3

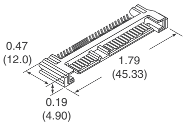

Fig. 4

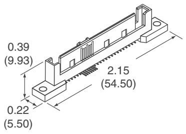

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
1	29	Vertical Socket	3M5485-ND	3.20	2.70	2.44	SBR-ST-29-P-ML
2	29	Elevated Vertical Socket	3M5486-ND	3.20	2.70	2.44	SBR-EV-29-P-ML
3	29	Straddle Mount Plug	3M5487-ND	1.81	1.53	1.38	SBH-ST-29-SA-ML
4	29	Standard SMT Plug	3M5488-ND	3.20	2.70	2.44	SBH-ST-29-SM-ML

MetPak™ 2-FB Headers and Sockets

MetPak™ 2-FB Inverse Headers and Sockets: • 16mm to 18.5mm high-profile stacking • Footprint compatible with standard Futurebus+® • Ideal for hot swapping applications • End-to-end stackable • Mates with MP2-R Series for parallel stacking applications

MetPak 2-FB Power Headers and Sockets: • 6.5 Amps per contact • Early mate late break (EMLB) for hot swap or selective loading options • End-to-end stackable • Futurebus+ compatible

MetPak 2-FB Headers and Sockets: • End-to-end stackable • Early mate late break for hot swapping (header) • Meets global IEC 61076-4-104 Futurebus+ standard (socket) • Monoblockable

Specifications:

• Material: High Temperature LCP • Flammability: UL 94V-0 • Color: Beige • Current Rating: Signal: 1.5A - All contacts simultaneously (6.5A per power socket contact at 70°C for power headers and sockets) • Withstanding Voltage: 1,000VAC • Temperature Rating: -55°C ~ 125°C

Fig. 1

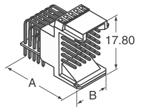

Fig. 2

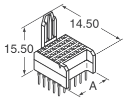

Fig. 3

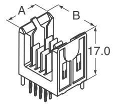

Fig. 4

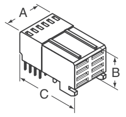

Fig. 5

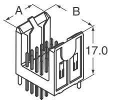

Fig. 6

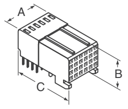

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
		2-FB Inverse Headers and Sockets							
1	120	24.8	47.95	–	3M5506-ND	10.59	8.05	7.28	MP2-P120-51M1-LR
2	30	11.95	–	–	3M5509-ND	1.77	1.35	1.22	MP2-R030-51P1-LR
		2-FB Power Headers and Sockets							
3	8	11.95	15.8	–	3M5497-ND	1.58	1.21	1.09	MP2-HP08-41P1-KR
	10	11.95	17.8	–	3M5498-ND	4.58	3.48	3.15	MP2-HP10-51P1-KR
4	8	11.95	11.8	21	3M5490-ND	1.66	1.27	1.15	MP2-SP08-41M1-LR
	10	11.95	13.8	23	3M5491-ND	2.00	1.52	1.38	MP2-SP10-51M1-LR
		2-FB Headers and Sockets							
5	24	11.95	15.8	–	3M5499-ND	1.71	1.30	1.18	MP2-H024-41S1-S-LR
	24	11.95	15.8	–	3M5501-ND	1.87	1.43	1.29	MP2-H024-41P1-S-KR
6	24	11.95	11.8	21	3M5492-ND	1.83	1.40	1.26	MP2-S024-41M1-C-LR
	30	11.95	13.8	23	3M5493-ND	2.25	1.71	1.55	MP2-S030-51M1-C-LR

Ultra Hard Metric (UHM) Press-Fit Socket

Dimensions in Inches (mm)

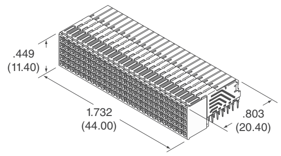

Ultra Hard Metric (UHM) is a fully shielded socket connector that conforms to the J2 connector requirements specified in the new draft PICMG 2.30 CompactPCI® standard.

Features:

• Low crosstalk at high frequencies • 63 mated lines per linear inch • End-to-end stackable with 5 row 3M™ CP2, HM, UHM and HSHM sockets • Mates with 3M CP2, HM, UHM. HSHM headers and cPCI™ type headers

Specifications:

Insulation: • Material: High Temperature Thermoplastic (LCP) • Flammability: UL 94V-0
Contact: • Material: Copper Alloy • Plating: 0.76µm (30µ") Minimum Au Contact Area, 2.54µm (100µ") Minimum, SnPb Terminal Area, 1.27µm (50µ") Minimum Ni All over (RIA E2 and C2 apply)
Mechanical: • Normal Force (Nominal): 0.57N (58g) Signal, (0.74N (75g) Shield with HSHM and UHM headers) • Engagement Force (Nominal): 0.32N (33g) Signal, 0.22N (22g) Shield with HSHM and UHM headers) • Seperation Force (Nominal): 0.20N (20g) Signal, 0.20N (20g) Shield with HSHM and UHM headers) • Wipe (Nominal, Shortest Contact): 2.67mm (0.105in.) Signal, 1.57mm (0.062in.) Shield
Electrical: • Data Rate: 7+Gbps data rates (when mated to standard IEC 61076-4-101 headers) • Characteristic Impedance: 50Ω Single-ended, 100Ω Differential • Current Rating (Fully Loaded): 1A at 70°C Signal • Insulation Resistance: 10^4MΩ at 100VDC • Withstanding Voltage: 750VRMS • Temperature Rating: -55°C ~ 125°C

No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
110	UHM Type B Socket	3M9446-ND	53.02	44.61	40.28	UHM-S110B3-5AP1-TG30

3M

MetPak™ HSHM Press-Fit Socket Connectors

Dimensions in mm

Features:

- Up to 5 Gb/s data rates • Low crosstalk at high frequencies • 50/100Ω (single ended/differential) impedance • Modular/scalable format IEC 61076-4-101 • 63 mated lines per linear inch • Dual beam contact construction for high reliability • End-to-end stackable with 5 row 3M MetPak CP2, HM and HSHM sockets • Mates with 3M MetPak HSHM headers

Specifications:

Insulation: • Material: High Temperature Thermoplastic (LCP) • Flammability: UL94V-0 **Contact:** • Material: Copper Alloy • Plating: TR30 or TR40B

Insulation Resistance: 10^4MΩ at 100VDC **Current Rating**: 1A at 70°C signal **Withstanding Voltage**: 750 V_{RMS} **Temperature Ratings**: -55°C ~ 125°C

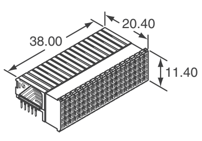

No. of Pos.	High Speed Application	Plating	Digi-Key Part No.	Price Each 1	Price Each 100	3M Part No.
95	Row	30µ" Gold	3M5655-ND	100.53	76.37	HSHM-S095B1-5AP1-TG30
	Coaxial & Column	30µ" Gold	3M5656-ND	100.53	76.37	HSHM-S095B4-5AP1-TG30
	Row	5µ" Gold	3M5657-ND	92.35	70.16	HSHM-S095B1-5AP1-TR40B
	Coaxial & Column	5µ" Gold	3M5658-ND	100.53	76.37	HSHM-S095B4-5AP1-TR40B

MetPak™ CP2 Press-Fit Connectors

Features: • CompactPCI® combines the benefits of PCI desktop architecture with the ruggedness of the 3U and 6U IEEE Eurocard form factor popularized by the VME bus • Designed according to IEC 61076-4-101 and IEC 917 standards • Meets CPCI application requirements • "Eye of the Needle" compliant pin press-fit design reduces manufacturing time and cost

Specifications:

Insulation: • Material: Glass Filled Polyester (PBT) • Flammability: UL94V-0 **Contact:** • Material: Copper Alloy **Plating**: • Underplate: Nickel • Wiping Area: 30µ" (0.79µm) Gold-MIL-G-45204, Type II • Tail: Tin Lead

Insulation Resistance: 10GΩ (Minimum) **Current Ratings**: 1A at 70°C **Test Voltage**: 750VAC (rms) **Temperature Ratings**: -55°C ~ 125°C

PCB Data: • Recommended PCB hole platings: Cu 25-50µm, Sn or SnPb <10µm • PCB Thickness: 1.4 ~ 5.6mm • Press-In Force: 26 ±6N/pin on nominal hole diameter (0.6 ±0.05mm) • Retention Force: 20 ±5N/pin on nominal hole diameter (0.6 ±0.05mm)

Fig. 1

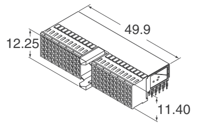

Fig. 2

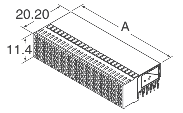

Fig. 3

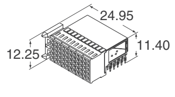

Fig. 4

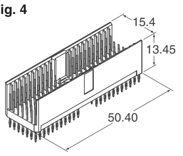

Fig. 5

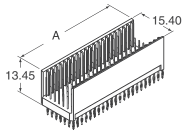

Fig. 6

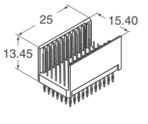

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	3M Part No.
Sockets							
1	110	—	3M5570-ND	4.26	3.59	3.24	CP2-SA110-G1-TG30
2	110	44	3M5571-ND	4.26	3.59	3.24	CP2-SB110-G1-TG30
2	125	50	3M5572-ND	4.78	4.03	3.64	CP2-SB125-G1-TG30
3	55	—	3M5573-ND	2.48	2.09	1.89	CP2-SC055-G1-TG30
Headers							
4	110	—	3M5574-ND	4.78	4.03	3.64	CP2-HA110-GE1-TG30
5	110	44.4	3M5575-ND	4.78	4.03	3.64	CP2-HB110-GE1-TG30
5	125	50.4	3M5576-ND	5.45	4.59	4.14	CP2-HB125-GE1-TG30
6	55	—	3M5577-ND	2.39	2.02	1.82	CP2-HC055-GE1-TG30
Coding Keys for Fig. 1 and 4 (Yellow)							
For 3M5570-ND			3M5578-ND	.35	.30	.27	CP2-K1278-CY-F
For 3M5574-ND			3M5579-ND	.35	.30	.27	CP2-K3456-CY-M
Lower Shields for Sockets							
110 Positions, For 3M5570-ND			3M5580-ND	1.14	.97	.87	CP2-GSA-L
125 Positions, For 3M5572-ND			3M5582-ND	1.14	.97	.87	CP2-GSB25-L
55 Positions, For 3M5573-ND			3M5583-ND	.54	.46	.42	CP2-GSC-L
Shrouds for Headers							
110 Positions, For 3M5574-ND			3M5584-ND	.46	.39	.35	CP2-HSA110-1
110 Positions, For 3M5575-ND			3M5585-ND	.42	.35	.32	CP2-HSB110-2
125 Positions, For 3M5576-ND			3M5586-ND	.52	.44	.40	CP2-HSB125-1
55 Positions, For 3M5577-ND			3M5587-ND	.27	.23	.21	CP2-HSC055-4

SULLINS
CONNECTOR SOLUTIONS

Hard Metric CompactPCI™ Connectors

Designed for the Telecommunications industry to replace the DIN 41612 Series of 2 piece connectors. It is much higher density than the older 4162 and the IEC Specification allows for greater standardization.

Specifications:

- **Insulator Material:** Liquid Crystal Polymer (LCP) UL94V-0 • **Contact Material:** Phosphor Bronze • **Current Rating:** 1 Amp • **Dielectric Withstanding Voltage:** AC 1000V for 1 Minute • **Insulator Resistance:** 1000MΩ Minimum at DC 500V • **Contact Resistance:** 30mΩ Maximum at DC 100mA • **Operating Temperature:** -65°C ~ 125°C

Type B Female

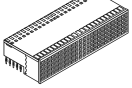

Type B Male

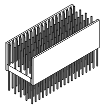

Type C Female

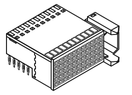

No. of Positions	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Sullins Part No.
95	Type B19 Female HM Unshielded	S3105-ND	6.07	5.50	2B19F955F001-0-H
154	Type B22 Male HM CPCI Telephony	S3111-ND	6.89	6.24	2B22M154P1013-1-H
125	Type B25 Female HM Shielded	S3112-ND	9.41	8.52	2B25F1255F001-1-H
125	Type B25 Female HM Unshielded	S3113-ND	7.16	6.48	2B25F1255F001-0-H
175	Type B25 Male HM	S3114-ND	7.02	6.36	2B25M175P1001-1-H
55	Type C Female HM Unshielded	S3115-ND	4.40	3.99	2CF555F001-0-H

FCI

SATA Connectors

Serial ATA (SATA) provides data speeds up to 3Gbits per second while utilizing a smaller number of contacts. SATA is the next generation standard interface for all mainstream storage, data, notebook, and desktop applications. SATA provides many significant advantages over the current parallel ATA standard. Improved density, along with lower voltage transmission eliminates the requirement for bulky ribbon cables. The result is much better airflow through the device utilizing this interconnect. In addition, SATA utilizes a first mate, last break contact arrangement for hot plugging capability.

Fig. 1

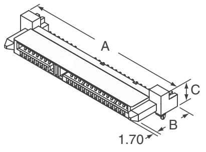

Fig. 2

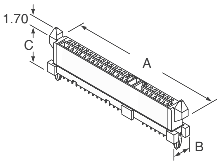

Fig. 3

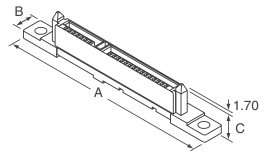

Fig.	No. of Positions	Dimensions - mm A	Dimensions - mm B	Dimensions - mm C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	FCI Part No.
Receptacle Right Angle SMT									
1	22	42.40	10.70	5.42	609-1028-ND	3.37	2.08	1.84	10029364-001LF
	22	49.00	13.00	3.50	609-1029-ND	2.40	1.42	1.26	10031569-001LF
	22	42.40	10.70	5.50	609-1035-ND	6.50	4.22	3.86	10034814-001LF
Receptacle Vertical PC Mount									
2	22	40.43	5.00	8.15	609-1030-ND	4.27	2.66	2.41	10017660-001LF
	22	40.43	5.00	8.15	609-1032-ND	5.16	2.80	2.51	10022676-001LF
	22	40.43	5.00	8.15	609-1033-ND	6.68	3.63	3.25	10022676-002LF
Receptacle Vertical SMT									
3	22	45.75	5.50	8.15	609-1034-ND	4.49	2.44	2.19	10029065-001LF
	22	55.77	5.50	8.15	609-1036-ND	6.34	4.11	3.76	10045103-001LF

Millipacs®

Millipacs is a standard 2.0mm Interconnect System featuring 5 and 8 contact rows and 2 rows for shielding and grounding. Millipacs is a modular system built up by a number of specific types of modules with different functions and features signal modules with up to 200 signal contacts per 50mm module (in 8 row versions). Both headers and receptacles are equipped with the well known FCI "eye of the needle" press-fit section for stable and reliable connections in the boards.

Features: • **Housing Material:** High-temperature thermoplastic (UL94V-0) • **Contact Base Material:** Phosphor Bronze • **Operating Temperature:** -55°C ~ 125°C • **Signal Contact Current:** 1.5A @ 20°C, 1.0A @ 70°C • **Contact Resistance:** 20mΩ Maximum • **Insulation Resistance:** 10,000MΩ Minimum • **Approvals and Certification:** UL and CSA Certified

Fig. 1

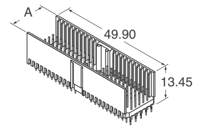

Shown with multi-purpose center

Fig. 2

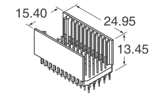

Fig. 3

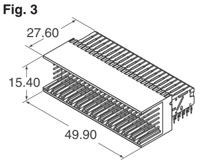

Shown without multi-purpose center

Fig. 4

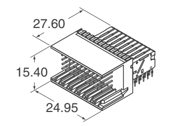

Fig. 5

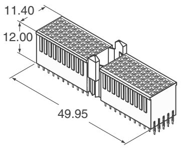

Shown with multi-purpose center

Fig. 6

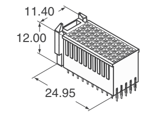

Fig. 7

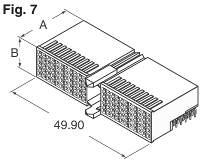

Shown with multi-purpose center

Fig. 8

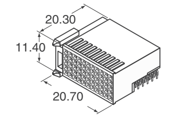

Fig. 9

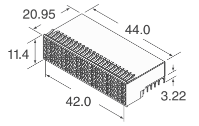

Fig.	No. of Pos.	Dimensions (mm) A	Dimensions (mm) B	Multi-Purpose Center	Shield	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	FCI Part No.
						Vertical Headers				
1	200	21.40	—	No	Yes	609-2136-ND	18.34	11.96	11.01	HM2P88PD8111N9LF
	176	21.40	—	Yes	Yes	609-2135-ND	10.49	7.22	6.56	HM2P87PD8111N9LF
	125	15.40	—	No	No	609-2129-ND	4.85	3.04	2.78	HM2P08PD5110N9LF
	125	15.40	—	No	Yes	609-2130-ND	5.63	3.75	3.36	HM2P08PD5111N9LF
	110	15.40	—	Yes	No	609-2125-ND	3.75	2.34	2.12	HM2P07PD5110N9LF
	110	15.40	—	Yes	Yes	609-2126-ND	4.94	3.09	2.83	HM2P07PD5111N9LF
	110	15.40	—	Yes	No	609-2127-ND	10.42	7.39	6.80	HM2P07PK5110GFLF
	110	15.40	—	No	Yes	609-2134-ND	6.97	4.65	4.16	HM2P70PDE121N9LF
2	55	—	—	No	No	609-2131-ND	3.53	2.18	1.92	HM2P09PD5110N9LF
	55	—	—	No	Yes	609-2132-ND	4.37	2.72	2.46	HM2P09PD5111N9LF
						Right Angle Headers				
3	125	—	—	No	No	609-2123-ND	10.30	7.49	6.79	HM2J08PE5110N9LF
	110	—	—	Yes	No	609-2122-ND	10.19	7.39	6.57	HM2J07PE5110N9LF
4	55	—	—	No	No	609-2124-ND	10.96	7.77	7.16	HM2J09PE5110N9LF
						Vertical Receptacles				
5	110	—	—	Yes	No	609-2154-ND	10.45	7.19	6.53	HM2S10PE5100N9LF
	110	—	—	Yes	Yes	609-2155-ND	11.15	7.90	7.28	HM2S10PE5101N9LF
	125	—	—	No	No	609-2152-ND	12.33	8.22	7.45	HM2S02PE5100N9LF
	125	—	—	No	Yes	609-2153-ND	13.56	9.87	8.94	HM2S02PE5101N9LF
6	55	—	—	No	No	609-2156-ND	6.98	4.40	3.94	HM2S30PE5100N9LF
	55	—	—	No	Yes	609-2157-ND	7.34	5.09	4.50	HM2S30PE5101N9LF
						Right Angle Receptacles				
7	110	20.30	11.40	Yes	No	609-2137-ND	5.78	3.64	3.28	HM2R01PA5100N9LF
	110	20.30	11.40	Yes	Yes	609-2138-ND	5.87	3.81	3.48	HM2R01PA5108N9LF
	110	20.30	11.40	Yes	No	609-2143-ND	9.74	6.03	5.32	HM2R10PA5100N9LF
	110	20.30	11.40	Yes	Yes	609-2144-ND	8.62	6.11	5.39	HM2R10PA5108N9LF
	176	22.30	17.40	Yes	No	609-2148-ND	16.46	11.46	10.38	HM2R87PA8100N9LF
	176	23.20	17.40	Yes	Yes	609-2149-ND	13.56	9.61	8.85	HM2R87PA810FN9LF
	125	20.30	11.40	No	No	609-2139-ND	5.84	3.82	3.38	HM2R02PA5100N9LF
	125	20.30	11.40	No	Yes	609-2140-ND	5.93	3.95	3.54	HM2R02PA5108N9LF
	200	22.30	17.40	No	No	609-2150-ND	17.39	12.10	10.97	HM2R88PA8100N9LF
8	55	—	—	No	No	609-2141-ND	3.53	2.06	1.89	HM2R03PA5100N9LF
	55	—	—	No	Yes	609-2142-ND	3.85	2.38	2.10	HM2R03PA5108N9LF
	55	—	—	No	No	609-2145-ND	3.53	2.06	1.89	HM2R30PA5100N9LF
	55	—	—	No	Yes	609-2146-ND	4.40	2.86	2.61	HM2R30PA5108N9LF
9	110	—	—	No	Yes	609-3631-ND	11.84	8.40	7.73	HM2R70PA5108N9LF

Metral®

FCI's Metral series is a high-speed 2mm backpanel connector system consisting of right-angle receptacles and vertical headers. The Metral series features a unique stripline structure in the receptacle and outer ground shields in the header. The stripline structure allows the Metral series to have improved signal performance when routed in either a single-ended or a differential pair configuration.

Materials: • Housing: High-temperature, glass filled LCP, UL94V-0 • Receptacle Contacts: Beryllium-copper • Header Pins: Phosphor-bronze • Ground Shields: Phosphor-bronze • Contact Area: Selective gold over nickel • Press-Fit Tails: Tin

Mechanical Performance: • Mating Force: 0.55N maximum per contact pair including ground and shield contacts • Withdrawal Force: 0.20N minimum per contact pair including ground and shield contacts

Electrical Performance: • Operating Temperature: -55°C ~ 105°C • Current Rating: 1A when all contacts are powered or 3A when one contact is powered at a 30°C maximum temperature rise • Contact Resistance: 20 mΩ Maximum • Insulation Resistance: 1000 MΩ Minimum

Applications: • Communications: Transmissions, Access, Switches, Routers • Data: Servers, Storage Enclosures • Miscellaneous: Rack-based systems

Fig. 1

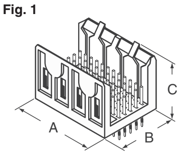

Fig. 2

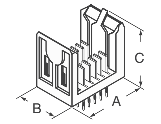

Fig. 3

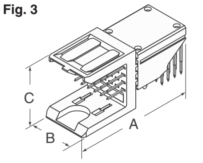

Fig. 4

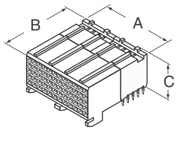

Fig. 5

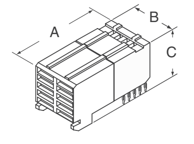

Fig. 6

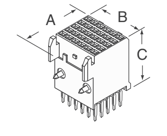

Fig. 7

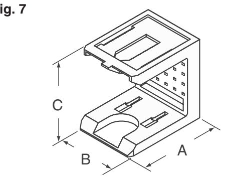

Fig. 8

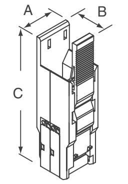

Fig.	No. of Pos.	No. of Rows	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	FCI Part No.
						Vertical Headers				
1	24	4	11.93	15.80	17.00	609-2492-ND	3.03	1.74	1.50	70232-111LF
	30	5	11.88	17.80	17.00	609-2490-ND	10.35	7.12	6.47	55003-101003LF
	30	5	11.88	17.80	17.00	609-2491-ND	5.52	3.51	3.21	55003-101004LF
	30	5	11.88	17.80	17.00	609-2498-ND	5.16	3.23	2.95	84817-101001LF
	30	5	11.93	17.80	17.00	609-2502-ND	3.88	2.32	2.04	89006-110LF
	48	4	23.93	15.80	17.00	609-2493-ND	4.49	2.79	2.53	70233-111LF
	60	5	23.93	17.80	17.00	609-2503-ND	3.91	2.42	2.13	89007-110LF
	96	4	47.93	15.80	17.00	609-2494-ND	7.39	5.12	4.53	70234-111LF
						Vertical Power Header				
2	10	5	17.80	11.93	17.00	609-2507-ND	7.39	4.57	4.09	89099-110LF
	10	5	17.80	11.93	17.00	609-3524-ND	6.73	4.48	4.02	89099-111LF
						Right Angle Header				
3	24	4	31.86	11.98	15.8	609-3602-ND	4.34	2.70	2.45	HM1L41AAP000H6PLF
						Right Angle Receptacles				
4	24	4	11.95	21.15	9.35	609-2499-ND	3.57	2.09	1.82	88945-102LF
	30	5	11.95	23.15	11.35	609-2504-ND	4.42	2.49	2.25	89047-102LF
	30	5	11.98	23.70	10.80	609-2495-ND	9.21	6.53	5.76	73981-102LF
	30	5	11.98	23.85	10.80	609-2488-ND	8.24	5.61	5.05	52057-102LF
	30	5	11.98	23.85	10.80	609-2489-ND	8.59	5.84	5.16	52057-302LF
	48	4	23.95	21.15	9.35	609-2500-ND	6.12	3.70	3.38	88946-102LF
	60	5	23.95	23.15	11.35	609-2505-ND	6.84	4.56	4.08	89093-102LF
	96	4	47.95	21.15	9.35	609-2501-ND	9.97	6.52	5.76	88947-102LF
	96	8	23.98	29.70	16.80	609-2496-ND	26.84	20.53	18.79	74981-102LF
	96	8	23.98	29.70	16.80	609-2487-ND	23.08	16.79	14.95	10041744-102LF
						Right Angle Power Receptacle				
5	10	5	23.14	11.95	13.30	609-2506-ND	6.07	3.23	2.95	89096-102LF
	24	5	23.14	11.95	13.30	609-3551-ND	3.34	2.07	1.82	89096-112LF
	120	5	23.15	47.95	14.25	609-3552-ND	11.01	7.81	7.19	89094-102LF
						Straight Receptacle				
6	30	5	13.3	11.95	14.3	609-3603-ND	5.11	3.20	2.92	85761-1101LF
						Shroud, Wide Body				
7	30	5	17.0	11.98	17.8	609-3604-ND	1.07	.64	.57	89055-111LF
						Cable Connector Kits				
8	24	4	12.0	13.9	45.0	609-3193-ND	9.05	6.42	5.66	72476-1111LF
	24	4	12.0	13.9	45.0	609-3194-ND	6.54	4.36	3.90	72476-1121LF
	48	4	24	13.9	45.0	609-3195-ND	10.81	7.66	6.76	72477-1111LF
	48	4	24	13.9	45.0	609-3196-ND	15.27	11.11	10.07	72477-1121LF
	30	5	12.0	16.9	45.0	609-3197-ND	10.68	7.26	6.68	72478-1111LF
	30	5	12.0	16.9	45.0	609-3198-ND	9.28	6.08	5.36	72478-1121LF
	30	5	12.0	16.9	45.0	609-3119-ND	10.68	7.26	6.68	72478-1211LF
	30	5	12.0	16.9	45.0	609-3122-ND	8.57	6.08	5.36	72478-1221LF
	48	4	24.0	13.9	45.0	609-3118-ND	15.73	11.44	10.37	72477-1221LF
	60	5	24.0	16.9	45.0	609-3199-ND	10.89	7.72	7.11	72479-1111LF
	60	5	24.0	16.9	45.0	609-3200-ND	18.43	13.41	11.94	72479-1121LF
	60	5	24.0	16.9	45.0	609-3120-ND	18.43	13.41	11.94	72479-1211LF
	60	5	24.0	16.9	45.0	609-3123-ND	18.76	13.65	12.16	72479-1221LF

FCI PCI Express™ Card Edge Connectors

These 1.0mm pitch, vertical card edge connectors are used to implement the evolutionary PCI Express strategy in ATX or ATX-based desktop PCs and server systems. The connector family offers 1 to 16 high-speed serial PCI Express Lanes. Each serial lane supports 2.5 Gbps data rate (per direction). The connector family supports x1, x4, x8, or x16 link widths to suit different bandwidth requirements. All connectors support the PCI Express signal and power requirements, as well as auxiliary signals at the interface between system board and add-in card hardware.

Materials: • Contact Base Metal: Copper alloy • Contact Area Finish: Gold over nickel • Solder Area Finish: Tin over nickel • Housing Material: High-temperature thermoplastic (UL 94V-0) Color: Black • Metal Board Locks: Copper alloy • Board Locks Finish: Tin over nickel **Electrical Performance:** • Contact Resistance: 30mΩ maximum initially with 10mΩ maximum change after environmental exposures • Current Rating: 1.1A minimum per pin for the 7 power pins and 7 nearest ground pins **Mechanical Performance:** • Durability Rating: 50 cycles minimum

Fig. 1

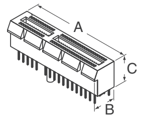

Fig. 2

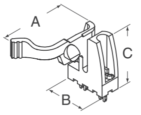

Fig. 3

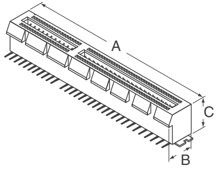

Fig.	No. of Pos.	Peg Opt.§	Tail Length (mm)	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
							PCI Express				
1	36	0	2.30	25.00	8.80	11.25	609-1960-ND	1.24	.69	.58	10018783-10000TLF
	164	0	2.30	89.00	8.80	11.25	609-1963-ND	3.37	2.07	1.80	10018783-10003TLF
	36	0	3.10	25.00	8.80	11.25	609-1964-ND	1.30	.72	.61	10018783-10010TLF
	64	0	3.10	39.00	8.80	11.25	609-1965-ND	2.00	1.09	.95	10018783-10011TLF
	98	0	3.10	56.00	8.80	11.25	609-1966-ND	2.37	1.40	1.21	10018783-10012TLF
	164	0	3.10	89.00	8.80	11.25	609-1967-ND	3.21	1.97	1.71	10018783-10013TLF
	36	0	2.30	25.00	8.80	11.25	609-1968-ND	.88	.46	.39	10018783-10100TLF
	64	0	2.30	39.00	8.80	11.25	609-1969-ND	1.42	.79	.68	10018783-10101TLF
	164	0	3.10	89.00	8.80	11.25	609-1975-ND	2.30	1.32	1.18	10018783-10113TLF
	36	0	2.30	25.00	8.80	11.25	609-1977-ND	.63	.32	.26	10018783-10200TLF
	64	0	2.30	39.00	8.80	11.25	609-1978-ND	.97	.51	.43	10018783-10201TLF
	98	0	2.30	56.00	8.80	11.25	609-1979-ND	1.22	.67	.57	10018783-10202TLF
	164	0	2.30	89.00	8.80	11.25	609-1980-ND	1.30	.71	.62	10018783-10203TLF
	164	0	2.30	89.00	8.80	11.25	609-2020-ND	2.95	1.69	1.50	10018784-10103TLF
	98	0	3.10	56.00	8.80	11.25	609-2023-ND	1.74	.97	.83	10018784-10112TLF
	36	0	2.30	25.00	8.80	11.25	609-2025-ND	.55	.28	.22	10018784-10200TLF
	64	0	2.30	39.00	8.80	11.25	609-2026-ND	1.05	.51	.42	10018784-10201TLF
	98	0	2.30	56.00	8.80	11.25	609-2027-ND	1.28	.66	.56	10018784-10202TLF
	164	0	2.30	89.00	8.80	11.25	609-2028-ND	1.06	.59	.49	10018784-10203TLF
	64	0	3.10	39.00	8.80	11.25	609-2030-ND	.95	.48	.39	10018784-10211TLF
	98	0	3.10	56.00	8.80	11.25	609-2031-ND	1.44	.72	.61	10018784-10212TLF
	164	0	3.10	89.00	8.80	11.25	609-2032-ND	1.23	.67	.57	10018784-10213TLF
	164	1	2.30	89.00	8.80	11.25	609-2036-ND	3.52	1.91	1.71	10018784-11003TLF
	164	1	2.30	89.00	8.80	11.25	609-2043-ND	2.42	1.35	1.18	10018784-11103TLF
	164	1	2.30	89.00	8.80	11.25	609-2051-ND	1.31	.73	.61	10018784-11203TLF
							PCI Express Retention Mechanism				
2	Green	—	—	23.00	12.50	16.00	609-2059-ND	.47	.22	.18	10042618-001LF
	Blue	—	—	23.00	12.50	16.00	609-2060-ND	.41	.20	.17	10042618-002LF
	Black	—	—	23.00	12.50	16.00	609-2061-ND	.45	.22	.18	10042618-003LF
							PCI Express with Positioning Pins — Surface Mount				
3	36	—	—	25.00	8.80	11.10	609-2882-ND	3.31	2.04	1.77	10061913-100CLF
	64	—	—	39.00	8.80	11.10	609-2883-ND	4.06	2.51	2.21	10061913-101CLF
	98	—	—	56.00	8.80	11.10	609-2884-ND	4.81	3.10	2.75	10061913-102CLF
	164	—	—	89.00	8.80	11.10	609-2996-ND	6.04	4.02	3.61	10061913-103TLF

§ Peg Options: 0 - Plastic Pegs, 1 - Metal Board Locks

SAS (Serial-Attached SCSI)

The 29 Position SAS Receptacle and Plug connectors enable high-speed SAS interface up to 6 Gb/s. FCI's SAS product range supports hot plugging, blind-mating of HDDs and feature retention clips that provide additional mechanical strength for robust PCB attachment.

Features: • High-speed serial storage interfaces of up to 6 Gb/s • 29-position SAS connectors enable SFF-8482 HDD interface • Provide dual signal ports (7 contacts/port) and 15 contacts for power • SAS receptacles also accept SATA drives • Designed to support hot-plugging and blind-mating of HDDs • Connector retainers provide additional mechanical strength after soldering

Applications: • Servers and storage blades • External storage systems • SSDs, HDDs and HDD carriers

Fig. 1

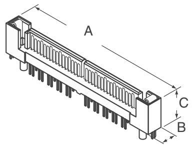

Fig. 2

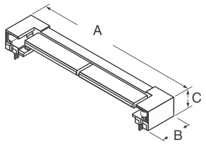

Fig. 3

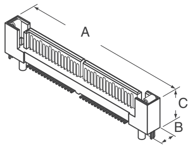

Fig. 4

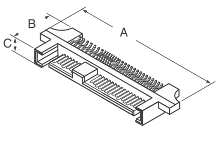

Fig. 5

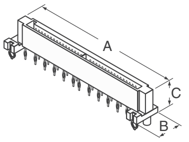

Fig. 6

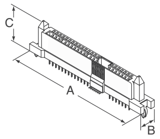

Fig. 7

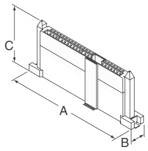

Fig. 8

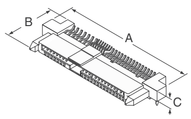

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
					Plugs – Vertical PC Mount				
1	32	57.14	5.10	9.95	609-1603-ND	4.26	2.65	2.40	10044625-001LF
	32	57.14	5.10	9.95	609-1597-ND	4.29	2.65	2.34	10028542-001LF
	32	57.14	5.10	9.95	609-1598-ND	4.26	2.65	2.40	10028542-002LF
					Plugs – Right Angle PC Mount				
2	32	57.14	12.30	6.50	609-1600-ND	4.78	2.95	2.60	10035104-001LF
	32	57.14	12.30	6.50	609-1601-ND	4.70	2.92	2.64	10035104-002LF
					Plugs – Vertical Surface Mount				
3	29	55.77	5.50	9.93	609-1547-ND	4.53	2.83	2.59	10045105-001LF
	29	45.35	5.50	8.40	609-1546-ND	3.22	1.98	1.77	10041724-001LF
	29	45.75	5.50	8.40	609-1532-ND	2.81	1.66	1.48	10031193-001LF
					Plug – Right Angle Surface Mount				
4	29	52.00	12.85	4.40	609-1534-ND	3.07	1.85	1.61	10034524-001LF
	29	59.94	8.15	4.45	609-3961-ND ***NEW!***	6.18	4.12	3.69	10082443-002LF
					Receptacles – Vertical PC Mount				
5	29	42.73	7.00	9.85	609-1548-ND	6.49	4.32	3.87	10045782-001LF
	29	45.75	5.50	9.85	609-1529-ND	3.06	1.88	1.63	10031077-001LF
	29	45.75	5.50	9.85	609-1530-ND	6.40	4.15	3.80	10031077-003LF
	29	45.75	5.50	9.85	609-1531-ND	6.40	4.15	3.80	10031077-011LF
	29	45.75	5.50	9.85	609-1526-ND	1.93	1.11	.96	10018182-001LF
	29	45.75	5.50	9.85	609-1527-ND	5.53	3.46	3.17	10018182-011LF
	29	40.43	8.5	9.85	609-3957-ND ***NEW!***	5.61	3.64	3.33	10038064-001LF
					Receptacles – Vertical Hybrid (SMT and PCB)				
6	29	42.73	8.50	9.85	609-1541-ND	9.15	6.23	5.60	10036876-003LF
	29	42.73	8.50	9.85	609-1540-ND	5.98	3.81	3.48	10036876-003CLF
	29	42.73	8.50	9.85	609-1539-1-ND†	5.51	3.51	3.21	10036876-003C-TRLF
	29	42.73	8.50	9.85	609-1539-2-ND‡		935.30/280		10036876-003C-TRLF
	29	42.73	8.50	9.85	609-1542-ND	5.82	3.64	3.33	10036876-013CLF
	29	45.75	5.50	9.85	609-1536-ND	5.53	3.46	3.17	10036312-001LF
					Receptacles – Vertical Surface Mount				
7	29	45.75	5.50	19.55	609-1544-ND	8.79	5.98	5.38	10038334-001LF
	29	45.75	5.50	9.85	609-1533-ND	6.40	4.15	3.80	10031567-001LF
	29	45.75	5.50	9.95	609-1537-ND	2.45	1.45	1.29	10036355-001LF
	29	42.73	8.5	9.85	609-3958-ND ***NEW!***	6.79	4.70	4.16	10039845-001LF
	29	42.73	8.5	9. 85	609-3959-1-ND† ***NEW!***	4.17	2.69	2.43	10076579-002C-TRLF
	29	42.73	8.5	9.85	609-3959-2-ND‡ ***NEW!***		682.96/280		10076579-002C-TRLF
	29	45.75	5.5	9.85	609-3960-1-ND† ***NEW!***	5.50	3.66	3.28	10077259-002C-TRLF
	29	45.75	5.5	9.85	609-3960-2-ND‡ ***NEW!***		1558.42/450		10077259-002C-TRLF
					Receptacles – Right Angle Surface Mount				
8	29	47.00	14.20	3.68	609-1538-ND	6.52	4.05	3.67	10036587-001LF
	29	49.00	14.70	4.76	609-1535-ND	5.44	3.53	3.23	10035202-001LF

† Cut Tape ‡ Tape and Reel

CONEC®
TECHNOLOGY IN CONNECTORS™

Advanced TCA Connectors

This newly developed architecture and system layout allows manufacturers of telecom equipment a new standard for designing systems (PICMG 3.0). ATCA stands for: Advanced Telecommunications Computing Architecture. The basic structure is utilizing a modular concept. Application of this new structured approach allows various module designs that are compatible in layout and mechanical installation. CONEC manufactured the power connectors for the ATCA System which are used in Zone 1.

Material and Finishes:
• **Insulator:** Glass filled Plastic, UL 94V-0 • **Contacts:** High precision machined Copper Alloy • **Plating:** 30 micro inch, Gold over Nickel

Electrical Characteristics:
• **Size 16 Power Contacts:** 30A continuous all contacts under load per UL 1977 • **Size 22 Signal Contacts:** 2A nominal rating • **Insulation Resistance:** 5GΩ • **Mechanical Operations:** 250 Cycles • **Temperature Range:** -55°C ~ 125°C

Fig. 1

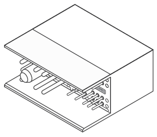

Fig. 2

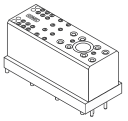

Fig.	No. of Positions	Termination	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
			Right Angle — Male Connector				
1	30	Press Fit	626-1266-ND	24.24	19.40	16.97	ATC30W08MAE1S5X
	30	Solder Pin	626-1267-ND	20.61	16.03	13.29	ATC30W08MARCS5X
			Straight — Female Connector				
2	30	Press Fit	626-1268-ND	21.20	16.96	14.84	ATC30W08FGE1S5X
	30	Solder Pin	626-1269-ND	25.46	20.37	17.83	ATC30W08FGRCS5X

Tyco Electronics
Authorized Distributor

Products Designed for DisplayPort™ Standard

Digi-Reel®

Dimensions in mm

DisplayPort is a universal interface specification designed for internal and external system solutions that reduce device complexity by significantly improving performance for high bandwidth audio and video data transfer over one cable. Connectors are designed in conjunction with VESA DisplayPort 1.1a standards to be used primarily within the notebook and PC markets and are considered, "The HDMI connector, of the PC World."

Features:
• Future foundation for new display usages • User friendly and cost effective • Smaller footprint takes up less PCB space • Reduces numbers of wires required • Supports embedded clock • Superior shielding against EMI • Replace DVI and VGA interfaces

Mechanical Ratings:
• Voltage Rating: 40 VAC(rms) • Current Rating: Signal application only, 0.5 ampere maximum per contact • Temperature Rating: -40°C ~ 85°C

Material:
• Contact: Copper alloy: gold plating on contact area, tin plating on solder area all over nickel plating • Housing: Thermoplastic, black, UL 94V-0 • Shell: Copper alloy, nickel plating or tin cover nickel plating

Fig. 1

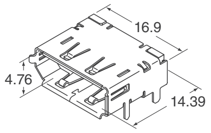

Fig. 2

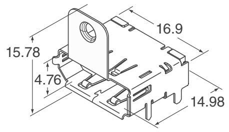

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
1	Connector Receptacle R/A without Flange SMD	A99341-ND	3.78	3.15	2.52	2013655-1
	Connector Receptacle R/A without Flange Thru Hole	A99345CT-ND†	3.77	3.15	2.52	2040451-1
	Connector Receptacle R/A without Flange Thru Hole	A99345TR-ND‡		521.28/250		2040451-1
2	Connector Receptacle R/A with Flange SMD	A99342-ND	4.20	3.50	2.80	2040204-1
	Connector Receptacle R/A with Flange SMD	A99343CT-ND†	4.56	3.80	—	2040247-5
	Connector Receptacle R/A with Flange SMD	A99343TR-ND‡		456.00/150		2040247-5

† Cut Tape ‡ Tape and Reel

HDMI™ Connectors and Cable Assemblies

Digi-Reel®

HDMI High-Definition Multimedia Interface connector is the next generation interface for consumer electronic products such as digital television, set-top boxes and DVD players. HDMI supports standard, enhanced or high-definition video, plus multi-channel audio on a single cable.

Features: • Full shielding for ESD protection and lead-free process capable • 19 positions and 5 Gigabits/second of bandwidth to support video and multi-channel audio in a single cable • Durability: 10,000 cycles

Dimensions in mm

Fig. 1

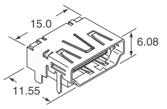

Fig. 2

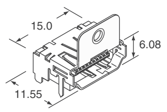

Fig. 3

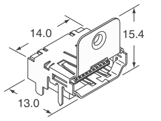

Fig. 4

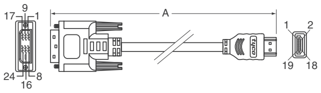

Fig. 5

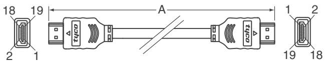

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
		HDMI Receptacles				
1	SMT R/A without Flange	A35071CT-ND†	4.02	3.35	2.68	1747981-1
	SMT R/A without Flange	A35071TR-ND‡		667.32/300		1747981-1
2	SMT R/A with Standard Flange	A35072-ND	4.02	3.35	2.68	1-1747981-1
	SMT R/A with Standard Flange	A35073-ND	4.02	3.35	2.68	1-1747981-2
	SMT R/A with HI Flange	A35074CT-ND†	4.02	3.35	—	2-1747981-3
	SMT R/A with HI Flange	A35074TR-ND‡		378.15/170		2-1747981-3
3	Thru Hole R/A	A35075-ND	4.44	3.70	2.96	1746679-1
		Cable Assemblies				
4	HDMI to DVI 2 Meters	A35083-ND	34.97	27.20	21.76	1770020-1
	HDMI to DVI 3 Meters	A35084-ND	40.82	31.75	25.40	1770020-2
	HDMI to DVI 1 Meter	A35088-ND	22.84	17.77	14.21	1770020-6
5	HDMI to HDMI 2 Meters	A35077-ND	29.32	22.81	18.25	1770019-1
	HDMI to HDMI 3 Meters	A35078-ND	41.65	32.40	25.92	1770019-2
	HDMI to HDMI .25 Meters	A35079-ND	12.15	9.45	7.56	1770019-3
	HDMI to HDMI .5 Meters	A35080-ND	14.65	11.40	9.12	1770019-4

† Cut Tape ‡ Tape and Reel

NEW! HARWiN M90 Series — Hot Shoe Connectors

Materials:

• Mouldings: High Temperature Plastic, UL94V-0 • Seals: Thermoplastic Elastomer • Contacts: Brass • Threaded Inserts: Brass • Finish: Gold

Environmental:

• Temperature Range: -40°C ~ 100°C

Electrical:

• Current Rating: 1A per contact • Voltage Rating: 240VDC • Contact Resistance: Male: 10mΩ maximum, Female: 30mΩ maximum • Insulation Resistance: 1,000MΩ minimum

Mechanical:

• Durability: 10,000 cycles

Fig. 1 — Plug

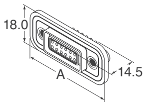

Fig. 2 — Receptacle

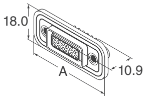

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Harwin Part No.
1	8	37	952-1413-ND	12.92	12.49	11.63	11.20	M90-7010845
	12	42	952-1414-ND	14.78	14.29	13.30	12.81	M90-7011245
	16	47	952-1415-ND	17.14	16.53	15.61	15.30	M90-7011645
2	8	37	952-1416-ND	19.24	18.55	17.52	17.18	M90-6010845
	12	42	952-1417-ND	26.03	25.10	23.71	23.24	M90-6011245
	16	47	952-1418-ND	34.23	33.01	31.18	30.57	M90-6011645

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

AMP Mictor Board-to-Board Connectors - SMD

RoHS COMPLIANT

Fig. 1

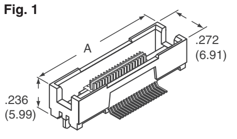

Fig. 2

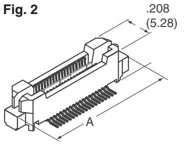

Material: • Housing: Liquid crystal polymer, black • Contacts: Copper alloy • Ground Bus: Phosphor bronze • Finish: Gold Plating • Contacts and Ground Bus: Duplex plated 0.00076(.000030) minimum gold in mating area with entire contact and ground bus underplated .00178 (.000070) minimum nickel

Ratings: • Voltage: 30VAC • Current: Signal 1.0 amp, fully derated grounded; 7.6 amps, fully derated • Temperature: -55°C ~ 125°C

No. of Pos.	Dimension A Inches (mm)	Distance Between First and Last Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Fig. 1 - Vertical Receptacles, For All Stacking Heights							
38	1.00 (25.4)	.450"	A32308-ND	16.22	14.69	10.41	2-5767004-2
76	1.50 (38.1)	.950"	A32309-ND	31.77	28.78	20.39	2-5767004-3
114	2.00 (50.8)	1.450"	A99290-ND	79.29	42.29	29.96	2-5767004-4
152	2.50 (63.5)	1.950"	A32310-ND	60.95	55.20	39.10	2-5767004-5
190	3.00 (76.2)	2.450"	A99287-ND	126.63	67.54	47.84	2-5767004-6
228	3.50 (88.9)	2.950"	A99288-ND	148.68	79.30	56.17	2-5767004-7
266	4.00 (101.6)	3.450"	A99289-ND	169.61	90.46	64.08	2-5767004-8
Fig. 2 - Vertical Plugs, To Make Stacking Height 6.60mm							
38	1.00 (25.4)	.450"	A32311-ND	17.62	15.96	11.31	5767007-8
76	1.50 (38.1)	.950"	A32312-ND	34.53	31.28	22.16	5767007-9
114	2.00 (50.8)	1.450"	A99291-ND	99.09	52.85	37.44	1-5767007-0
152	2.50 (63.5)	1.950"	A32313-ND	76.21	69.03	48.90	1-5767007-1
190	3.00 (76.2)	2.450"	A99284-ND	158.31	84.44	59.81	1-5767007-2
228	3.50 (88.9)	2.950"	A99285-ND	185.85	99.12	70.21	1-5767007-3
266	4.00 (101.6)	3.450"	A99286-ND	212.00	113.07	80.09	1-5767007-4

No. of Pos.	Dimension A Inches (mm)	Distance Between First and Last Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Fig. 2 - Vertical Plugs, To Make Stacking Height 10.92mm							
38	1.00 (25.4)	.450"	A99271-ND	29.93	15.96	11.31	5767003-9
76	1.50 (38.1)	.950"	A99274-ND	67.46	35.98	25.49	1-5767003-0
152	2.50 (63.5)	1.950"	A99270-ND	112.50	60.00	42.50	5767003-8
190	3.00 (76.2)	2.450"	A99276-ND	158.31	84.44	59.81	1-5767003-2
228	3.50 (88.9)	2.950"	A99277-ND	185.85	99.12	70.21	1-5767003-3
266	4.00 (101.6)	3.450"	A99278-ND	212.00	113.07	80.09	1-5767003-4
Fig. 2 - Vertical Plugs, To Make Stacking Height 12.57mm							
38	1.00 (25.4)	.450"	A99272-ND	29.93	15.96	11.31	5767005-8
76	1.50 (38.1)	.950"	A99273-ND	58.64	31.28	22.16	5767005-9
114	2.00 (50.8)	1.450"	A99279-ND	99.09	52.85	37.44	1-5767005-0
152	2.50 (63.5)	1.950"	A99280-ND	129.42	69.03	48.90	1-5767005-1
190	3.00 (76.2)	2.450"	A99281-ND	158.31	84.44	59.81	1-5767005-2
228	3.50 (88.9)	2.950"	A99282-ND	185.85	99.12	70.21	1-5767005-3
266	4.00 (101.6)	3.450"	A99283-ND	212.00	113.07	80.09	1-5767005-4

BOURNS®

70AD Modular Contacts

RoHS COMPLIANT

The **Model 70AD Modular Contact** is a low profile modular design connector that makes a high integrity, yet quickly removable connection. **Applications:** Rechargeable batteries and battery packs, battery chargers, cellular and portable phones, two-way radios, laptop computers, etc. **Materials and Finishes: Insulator:** Glass reinforced thermoplastic; UL 94V-0 rated, black **Contact:** Copper alloy **Finish Underplating:** Nickel **Finish Contact Area:** 30μ in. Au over Ni (male), Precious metal (female) **Finish Termination:** Tin alloy (meets MIL-STD202, method 208) **Electrical Operating Characteristics: Current Rating:** DC 3A/contact **Voltage Rating:** DC 30V (male) **Contact Resistance:** 25mΩ maximum **Dielectric Voltage:** AC 500V **Insulating Resistance:** 400MΩ minimum (male), 500MΩ minimum (female) **Operating Temperature:** -55°C ~ 125°C **Mechanical Characteristics: Normal Force:** 100 grams minimum (male) **Durability:** 5,000 cycles

Female Modular Contact

No. of Contacts	Dim. (mm) A	B
2	9.0	4.0
3	13.0	8.0
4	17.0	12.0
5	21.0	16.0
6	25.0	23.0

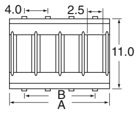

Top View

Fig. 1 - Female Surface Mount

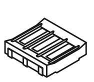

Fig. 2 - Female Through Hole

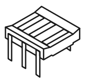

Male Modular Contact

No. of Contacts	Dim. (mm) A
2	7.7
3	11.7
4	15.7
5	19.7
6	23.7

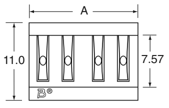

Top View

Fig. 3 - Male Surface Mount

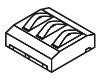

Fig. 4 - Male Through Hole

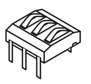

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	100	Bourns Part No.
Female SMT							
1	2	70ADJ-2-F-ND	1.23	.98	.76	.72	70ADJ-2-FL0
	3	70ADJ-3-F-ND	1.45	1.16	.90	.85	70ADJ-3-FL0
	4	70ADJ-4-F-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL0
	5	70ADJ-5-F-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL0
	6	70ADJ-6-F-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL0
Female SMT with Locator Pin							
1	2	70ADJ-2-F1-ND	1.23	.98	.76	.72	70ADJ-2-FL1
	3	70ADJ-3-F1-ND	1.45	1.16	.90	.85	70ADJ-3-FL1
	4	70ADJ-4-F1-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL1
	5	70ADJ-5-F1-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL1
	6	70ADJ-6-F1-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL1
Female Through-Hole							
2	2	70ADH-2-F-ND	1.23	.98	.76	.72	70ADH-2-FL0
	3	70ADH-3-F-ND	1.45	1.16	.90	.85	70ADH-3-FL0
	4	70ADH-4-F-ND	1.83	1.46	1.13	1.06	70ADH-4-FL0
	5	70ADH-5-F-ND	2.18	1.74	1.34	1.27	70ADH-5-FL0
	6	70ADH-6-F-ND	2.55	2.04	1.57	1.48	70ADH-6-FL0

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	100	Bourns Part No.
Male SMT							
3	2	70ADJ-2-M-ND	1.30	1.04	.80	.76	70ADJ-2-ML0
	3	70ADJ-3-M-ND	1.63	1.30	1.00	.95	70ADJ-3-ML0
	4	70ADJ-4-M-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML0
	5	70ADJ-5-M-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML0
	6	70ADJ-6-M-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML0
Male SMT with Locator Pin							
3	2	70ADJ-2-M1-ND	1.30	1.04	.80	.76	70ADJ-2-ML1
	3	70ADJ-3-M1-ND	1.63	1.30	1.00	.95	70ADJ-3-ML1
	4	70ADJ-4-M1-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML1
	5	70ADJ-5-M1-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML1
	6	70ADJ-6-M1-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML1
Male Through-Hole							
4	2	70ADH-2-M-ND	1.30	1.04	.80	.76	70ADH-2-ML0
	3	70ADH-3-M-ND	1.63	1.30	1.00	.95	70ADH-3-ML0
	4	70ADH-4-M-ND	2.03	1.62	1.25	1.18	70ADH-4-ML0
	5	70ADH-5-M-ND	2.45	1.96	1.51	1.43	70ADH-5-ML0
	6	70ADH-6-M-ND	2.85	2.28	1.76	1.66	70ADH-6-ML0

70AA Modular Contacts

RoHS COMPLIANT

Features: • 2.54mm pitch and height • End-to-end stackable • Pick and place compatible • High cycle life **Operating Characteristics: Electrical:** • Current Rating: 3A/contact • Voltage Rating: 60V • Contact Resistance: 30mΩ maximum (25mΩ maximum for Male) • Operating Temperature: -55°C ~ 125°C **Mechanical:** • Durability: 10,000 cycles minimum **Please see data sheet for full dimensions**

Female Modular Contact

No. of Contacts	Dim. (mm) A	B
2	4.98	2.54
3	7.52	5.08
4	10.06	7.62
5	12.60	10.16
6	15.14	12.70

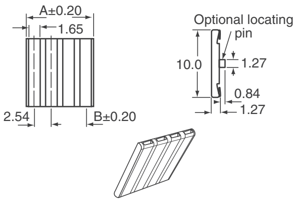

Male Modular Contact

No. of Contacts	Dim. (mm) A
2	5.00
3	7.54
4	10.20
5	12.62
6	15.16

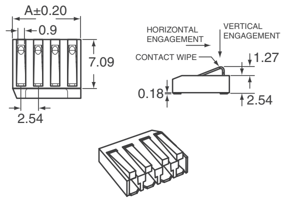

No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
Female Modular Contact					
2	70AAJ-2-F0-ND	.50	.40	.36	70AAJ-2-F0
3	70AAJ-3-F0-ND	.75	.60	.54	70AAJ-3-F0
4	70AAJ-4-F0-ND	.90	.72	.65	70AAJ-4-F0
5	70AAJ-5-F0-ND	1.00	.80	.72	70AAJ-5-F0
6	70AAJ-6-F0-ND	1.18	.94	.85	70AAJ-6-F0
Female Modular Contact with Locating Pin					
2	70AAJ-2-F1-ND	.50	.40	.36	70AAJ-2-F1
3	70AAJ-3-F1-ND	.75	.60	.54	70AAJ-3-F1
4	70AAJ-4-F1-ND	.90	.72	.65	70AAJ-4-F1
5	70AAJ-5-F1-ND	1.00	.80	.72	70AAJ-5-F1
6	70AAJ-6-F1-ND	1.18	.94	.85	70AAJ-6-F1
Male Modular Contact					
2	70AAJ-2-M0-ND	.88	.70	.63	70AAJ-2-M0
3	70AAJ-3-M0-ND	1.13	.90	.81	70AAJ-3-M0
4	70AAJ-4-M0-ND	1.38	1.10	.99	70AAJ-4-M0
5	70AAJ-5-M0-ND	1.75	1.40	1.26	70AAJ-5-M0
6	70AAJ-6-M0-ND	2.13	1.70	1.53	70AAJ-6-M0

70AB Modular Contacts

Digi-Reel® RoHS COMPLIANT

Features: • 1.27mm pitch • Twin hot contacts (symmetrical pad layout) • Pick and place compatible • High cycle life **Operating Characteristics**: **Electrical**: • Current Rating: 3A/contact • Voltage Rating: 60V • Contact Resistance: 25mΩ maximum • Operating Temperature: -55°C ~ 125°C **Mechanical**: • Durability: 5,000 cycles minimum

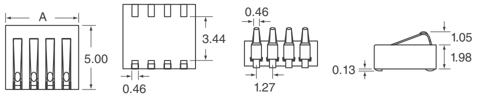

No. of Positions	Dimension A mm	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Bourns Part No.
3	4.39	70ABJ-3-M0ECT-ND	1.93	1.65	1.43	70ABJ-3-M0ETR-ND	550.00	70ABJ-3-M0E
4	5.66	70ABJ-4-M0ECT-ND	2.28	1.95	1.69	70ABJ-4-M0ETR-ND	650.00	70ABJ-4-M0E

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Connectors —
Fine Pitch SMT Board to Board

Series 5802 Features: • 0.4mm pitch and ultra low profile • Space efficient • Board to board connector that responds to a surge of downsizing and slimming requirements for cellular phones **1.5mm Features:** • 0.4mm fine pitch and low profile • Design provides for an audible click • Prevents solder wicking • Compatible with high temperature, lead free, soldering processes **Specifications:** • Mated Height: 1.5mm • Pitch: 0.4mm • Current: 0.4A maximum • Voltage: 50V maximum **Application:** • 1.5mm series is ideal for high density packaging applications such as PCs, PDAs, DVD, cell phones and digital cameras. **Series 5846 Features:** • Bottom of the connector is covered with a plate so no contact is exposed, which prevents the connector from short circuiting caused by the printed wire on the board • Pinching structure is highly resistant to vibration and drop shock and is adopted on contact points to obtain high contact reliability • Pendulum spring structure and FINE-LOCK structure are adopted to the mating system, which achieves low mating force and high retaining force **Series 5087 Features:** 0.5mm pitch, space-efficient • Board-to-Board connector that responds to a surge of downsizing and slimming requirements for cell phones, PHS, and Digital AV apparatus • Designed to have strong resistance against torque forces on mating area to achieve high reliability in the natural shock • Elco's original design concept achieves extremely high reliability in the connection of super micro sized connectors **Series 5046 Features:** • 0.5mm pitch, space efficient • Board-to-Board connector that responds to a surge of downsizing and slimming requirements for cell phones, PHS and Digital AV apparatus • Designed to have strong resistance against torque forces on mating area to achieve the high reliability in the natural shock • Adoption of bellows type contact with excellent contact reliability **SOLO STACKER™ Features:** • One piece connector used to connect two PCBs with mobile phones, pagers, PDAs, security, hand held scanners, etc. in a cost-effective manner • Can allow a spacing tolerance of up to ±0.30mm

Fig. 1

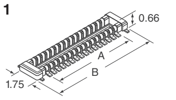

Fig. 2

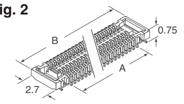

Fig. 3

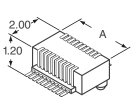

Fig. 4

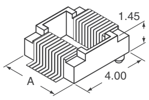

Fig. 5

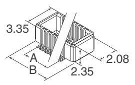

Fig. 6

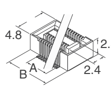

Fig. 7 ***NEW!***

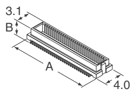

Fig. 8

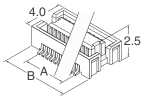

Fig. 9

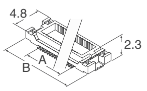

Fig. 10

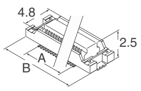

Fig. 11

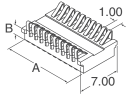

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
5802 Series 0.4mm Fine Pitch Connector — RoHS Compliant											
Plug											
1	16	2.8	4.96	478-5641-1-ND ***NEW!***	2.15	1.88	1.64	478-5641-2-ND ***NEW!***	2,000	754.00/M	145802016002829+
	20	3.6	5.76	478-5642-1-ND ***NEW!***	2.62	2.28	1.99	478-5642-2-ND ***NEW!***	2,000	915.00/M	145802020002829+
	24	4.4	6.56	478-5643-1-ND ***NEW!***	1.96	1.71	1.50	478-5643-2-ND ***NEW!***	2,000	687.00/M	145802024002829+
	32	6.0	7.06	478-5644-1-ND ***NEW!***	3.08	2.68	2.34	478-5644-2-ND ***NEW!***	2,000	1077.00/M	145802032002829+
	44	8.4	10.56	478-5645-1-ND ***NEW!***	2.99	2.61	2.28	478-5645-2-ND ***NEW!***	2,000	1047.00/M	145802044002829+
	54	10.4	12.56	478-4944-1-ND	3.38	2.89	2.25	478-4944-2-ND	2,000	1313.00/M	145802054002829+
	60	11.6	13.76	478-4945-1-ND	3.90	3.34	2.61	478-4945-2-ND	2,000	1517.00/M	145802060002829+
Receptacle											
2	16	2.8	5.8	478-5646-1-ND ***NEW!***	2.15	1.88	1.64	478-5646-2-ND ***NEW!***	2,000	754.00/M	245802016002829+
	20	3.6	6.6	478-5647-1-ND ***NEW!***	2.08	1.81	1.58	478-5647-2-ND ***NEW!***	2,000	727.00/M	245802020002829+
	24	4.4	7.4	478-5648-1-ND ***NEW!***	2.46	2.15	1.88	478-5648-2-ND ***NEW!***	2,000	862.00/M	245802024002829+
	32	6.0	9.0	478-5649-1-ND ***NEW!***	1.92	1.68	1.47	478-5649-2-ND ***NEW!***	2,000	673.00/M	245802032002829+
	44	8.4	11.4	478-5650-1-ND ***NEW!***	3.27	2.85	2.49	478-5650-2-ND ***NEW!***	2,000	1144.00/M	245802044002829+
	54	10.4	13.40	478-4946-1-ND	3.00	2.57	2.01	478-4946-2-ND	2,000	1168.00/M	245802054002829+
	60	11.6	14.60	478-4947-1-ND	3.60	3.08	2.40	478-4947-2-ND	2,000	1400.00/M	245802060002829+
1.5mm Fine Pitch Connector											
Plug											
3	30	7.1	—	478-1989-1-ND	4.28	3.66	2.85	478-1989-2-ND	2,000	1662.50/M	145602030000829
Receptacle											
4	20	6.1	—	478-1991-1-ND	2.52	2.16	1.68	—	—	—	245602020000829
	20	6.1	—	478-5604-1-ND◆	1.35	1.16	.90	478-5604-2-ND◆	2,000	525.00/M	245602020000829H+
	30	8.1	—	478-1992-1-ND	2.70	2.31	1.80	478-1992-2-ND	2,000	1050.00/M	245602030000829
	40	10.1	—	478-1993-1-ND	3.38	2.89	2.25	478-1993-2-ND	2,000	1312.50/M	245602040000829
5846 Series 0.4mm Pitch Connector — RoHS Compliant											
Plug											
5	20	3.6	5.97	478-5507-1-ND	1.85	1.59	1.24	478-5507-2-ND	1,000	719.00	145846020000829+
	30	5.6	7.97	478-5508-1-ND	2.40	2.06	1.61	478-5508-2-ND	1,000	935.00	145846030000829+
	40	7.6	9.97	478-5509-1-ND	2.84	2.43	1.90	478-5509-2-ND	1,000	1104.00	145846040000829+
	50	9.6	11.97	478-5510-1-ND	3.41	2.92	2.28	478-5510-2-ND	1,000	1327.00	145846050000829+
	60	11.6	13.97	478-5511-1-ND	3.83	3.28	2.56	478-5511-2-ND	1,000	1489.00	145846060000829+
	70	13.6	15.97	478-5512-1-ND	4.32	3.70	2.88	478-5512-2-ND	1,000	1680.00	145846070000829+
	80	15.6	17.97	478-5513-1-ND	4.68	4.01	3.12	478-5513-2-ND	1,000	1820.00	145846080000829+
Receptacle											
6	20	3.6	7.0	478-5514-1-ND	1.99	1.71	1.33	478-5514-2-ND	1,000	774.00	245846020100829+
	30	5.6	9.0	478-5515-1-ND	2.42	2.08	1.62	478-5515-2-ND	1,000	942.00	245846030100829+
	40	7.6	11.0	478-5516-1-ND	2.88	2.47	1.93	478-5516-2-ND	1,000	1122.00	245846040100829+
	50	9.6	13.0	478-5517-1-ND	3.67	3.15	2.45	478-5517-2-ND	1,000	1428.00	245846050100829+
	60	11.6	15.0	478-5518-1-ND	4.12	3.53	2.75	478-5518-2-ND	1,000	1603.00	245846060100829+
	70	13.6	17.0	478-5519-1-ND	4.68	4.01	3.12	478-5519-2-ND	1,000	1820.00	245846070100829+
	80	15.6	19.0	478-5520-1-ND	5.13	4.39	3.42	478-5520-2-ND	1,000	1995.00	245846080000829+
	80	15.6	19.0	478-5521-1-ND	5.22	4.47	3.48	478-5521-2-ND	1,000	2030.00	245846080100829+
5087 Series 0.5mm Pitch Connector without Metal Tab — RoHS Compliant											
NEW! Plug NEW!											
7	60	17.2	2.15	478-5694-1-ND	5.76	4.93	3.84	478-5694-2-ND	1,000	2240.00	145087060930829+
	60	17.2	2.15	478-5695-1-ND	5.54	4.74	3.69	478-5695-2-ND	1,000	2153.00	145087060230829+
Receptacle											
8	60	14.5	17.2	478-5603-1-ND	6.08	5.20	4.05	478-5603-2-ND	1,000	2363.00	245087060200861+
	60	14.5	17.2	478-5602-1-ND	6.75	5.78	4.50	478-5602-2-ND	1,000	2625.00	245087060900861+
5046 Series 0.5mm Pitch Connector with Metal Tab — RoHS Compliant											
Plug											
9	60	14.5	20.5	478-5538-1-ND	2.70	2.31	1.80	478-5538-2-ND	1,000	1050.00	145046060630829+
	100	24.5	30.5	478-5539-1-ND	4.50	3.85	3.00	478-5539-2-ND	1,000	1750.00	145046100630829+
Receptacle											
10	60	14.5	18.1	478-5537-1-ND	2.93	2.51	1.95	478-5537-2-ND	1,000	1138.00	245046060600829+
SOLO STACKER											
With PCB Location Bosses											
11	20	11.0	1.8	478-1995-1-ND	4.01	3.43	2.67	478-1995-2-ND	1,250	1557.51/M	009158020020001
	24	13.0	1.8	478-1996-1-ND	2.39	2.05	1.59	478-1996-2-ND	1,250	927.51/M	009158024020001
	16	9.0	1.8	478-1998-1-ND	2.48	2.12	1.65	478-1998-2-ND	1,250	962.51/M	009158016025001
	20	11.0	1.8	478-1999-1-ND	3.42	2.93	2.28	478-1999-2-ND	1,250	1330.00/M	009158020025001
	24	13.0	1.8	478-2000-1-ND	2.39	2.05	1.59	478-2000-2-ND	1,250	927.51/M	009158024025001
	28	15.0	1.8	478-2001-1-ND	2.97	2.55	1.98	478-2001-2-ND	1,250	1155.00/M	009158028025001
	28	15.0	2.7	478-2005-1-ND	2.61	2.24	1.74	478-2005-2-ND	1,100	1015.00/M	009158028030001

◆ ***RoHS Compliant***

9159/9276 Series Connectors —
Board to Board

Features:

- Simple and cost effective double ended card edge connector (1 piece) on 2.0mm pitch provides multiple connections to tin plated fingers at the end of each PCB

Fig. 1

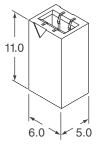

Fig. 2

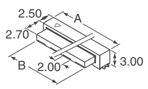

Fig. 3 ***NEW!***

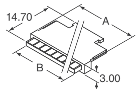

Fig. 4

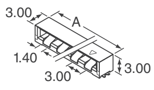

Fig. 5 ***NEW!***

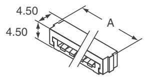

Fig. 6 ***NEW!***

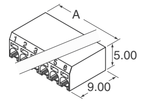

Fig.	No. of Pins	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	AVX Part No.
1	2	—	—	478-5522-1-ND	.86	.74	.57	750	249.75	009159002001106
	3	—	—	478-5523-1-ND	1.08	.93	.72	750	315.00	009159003001106
	4	—	—	478-5524-1-ND	1.26	1.08	.84	750	367.50	009159004001106
	5	—	—	478-5525-1-ND	1.49	1.28	.99	750	433.50	009159005001106
Plug										
2	2	8.00	5.90	478-5673-1-ND	.78	.67	.52	1,400	302.75/M	109159002101116
	3	11.00	8.90	478-5674-1-ND	.89	.76	.60	1,400	344.75/M	109159003101116
	4	14.00	11.90	478-5675-1-ND	.99	.85	.66	1,400	385.00/M	109159004101116
	5	17.00	14.90	478-5676-1-ND	1.11	.95	.74	1,400	430.50/M	109159005101116
	6	20.00	17.90	478-5677-1-ND	1.22	1.05	.82	1,400	476.00/M	109159006101116
NEW! Cable Mount Plug NEW!										
3	2	8.00	5.90	478-5856-1-ND	.93	.80	.63	700	253.40	119159002101116
	3	11.00	8.90	478-5857-1-ND	1.04	.90	.70	700	284.20	119159003101116
	4	14.00	11.90	478-5858-1-ND	1.18	1.01	.79	700	321.30	119159004101116
	5	17.00	14.90	478-5859-1-ND	1.32	1.13	.88	700	359.10	119159005101116
	6	20.00	17.90	478-5860-1-ND	1.39	1.19	.93	700	378.70	119159006101116
Socket										
4	2	8.00	—	478-5678-1-ND	.97	.84	.65	1,400	378.00/M	209159002101116
	3	11.00	—	478-5679-1-ND	1.20	1.03	.80	1,400	465.50/M	209159003101116
	4	14.00	—	478-5680-1-ND	1.42	1.22	.95	1,400	553.00/M	209159004101116
	5	17.00	—	478-5681-1-ND	1.64	1.41	1.10	1,400	638.75/M	209159005101116
	6	20.00	—	478-5682-1-ND	1.86	1.60	1.25	1,400	724.50/M	209159006101116
NEW! Top Load Socket NEW!										
5	2	11.40	—	478-5861-1-ND	1.11	.96	.75	1,400	432.00/M	229159002101116
	3	14.40	—	478-5862-1-ND	1.32	1.13	.88	1,400	513.00/M	229159003101116
	4	17.40	—	478-5863-1-ND	1.53	1.31	1.02	1,400	595.00/M	229159004101116
5	5	20.40	—	478-5864-1-ND	1.84	1.58	1.23	1,400	714.00/M	229159005101116
	6	23.40	—	478-5865-1-ND	2.08	1.79	1.39	1,400	810.00/M	229159006101116
NEW! Wire to Board Terminal Blocks NEW!										
6	1	2.50	—	478-6168-1-ND	.53	.45	.36	1,000	204.75	009276001021106
	2	5.00	—	478-6169-1-ND	.67	.57	.45	1,000	259.00	009276002021106
	3	7.50	—	478-6170-1-ND	.83	.70	.56	1,000	322.00	009276003021106
	4	10.00	—	478-6171-1-ND	.97	.82	.65	1,000	376.25	009276004021106
	6	15.00	—	478-6172-1-ND	1.26	1.07	.84	1,000	490.00	009276006021106
	8	20.00	—	478-6173-1-ND	1.55	1.32	1.04	1,000	603.75	009276008021106

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Accessories

Description	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
2 Position Shorting Socket	478-5866-1-ND†	.97	.84	.65	589159002000006
2 Position Shorting Socket	478-5866-2-ND‡		264.60/700		589159002000006
Cover for 2 Position Cable Mount Plug	478-5867-ND	.14	.12	.09	609159330201000
Cover for 3 Position Cable Mount Plug	478-5868-ND	.14	.12	.09	609159330301000
Cover for 4 Position Cable Mount Plug	478-5869-ND	.14	.12	.09	609159330401000
Cover for 5 Position Cable Mount Plug	478-5870-ND	.14	.12	.09	609159330501000
Cover for 6 Position Cable Mount Plug	478-5871-ND	.14	.12	.09	609159330601000
Latch for 2, 4, 6 Position Cable Mount Plugs	478-5872-ND	.25	.21	.16	609159340201000
Latch for 3 and 5 Position Cable Mount Plugs	478-5873-ND	.27	.23	.17	609159340301000

† Cut Tape ‡ Tape and Reel

9188 Series Staggered SOLO Stacker

The SOLO series 9188 is a one-piece connector used to connect two PCBs in a cost effective manner. A standard range is available with 4, 6, or 8 staggered contacts to suit stack heights of 1.1mm ~ 2.1mm. SOLO Stacker is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the 2 boards. **Features:** • Single piece connector – no mating half required to connect two boards together • Reduced assembly time • Only one part to purchase and stock • Mating device does not have to be parallel due to the unique contact design • Helps reduce tolerance accumulation within system

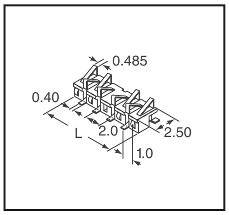

No. of Positions	Stack Height (mm)	Dimension L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	AVX Part No.
4	1.1 ~ 1.3	5.2	478-5490-1-ND	1.44	1.24	.96	478-5490-2-ND	560.00/M	009188004012062
6	1.9 ~ 2.1	7.2	478-5491-1-ND	1.71	1.47	1.14	478-5491-2-ND	665.00/M	009188006020062
8	1.9 ~ 2.1	9.2	478-5492-1-ND	1.89	1.62	1.26	478-5492-2-ND	735.00/M	009188008020062

9258 Series Ultra Low Profile Stacker — Board to Board Connectors

The SOLO series 9258 is a one-piece connector used to connect two PCBs in a cost effective manner. This connector is a 1.0mm pitch available in an 8 position with stack heights of .40mm and .80mm. It is available with or without location bosses. This connector is designed for PCB surface mounting and is supplied in tape-and-reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards. **Features:** • Single piece connector – no mating half connector required to connect two boards together • Reduced assembly time • Only one part to purchase and stock • Mating device does not need to be parallel due to the unique contact design • Extremely robust when it comes to shock and vibration

Fig. 1

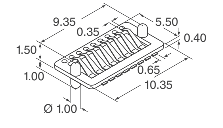

Fig. 2

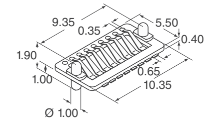

Fig.	No. of Pos.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
		0.40mm Stack Height								
1	8	With Mating PCB Location Bosses (top side)	478-5493-1-ND	2.03	1.74	1.35	478-5493-2-ND	1,400	788.00/M	009258008004061
	8	Without PCB Location Bosses	478-5494-1-ND	2.03	1.74	1.35	478-5494-2-ND	1,400	788.00/M	009258008004062
	8	With SMT PCB Location Bosses (bottom side)	478-5495-1-ND	2.03	1.74	1.35	478-5495-2-ND	1,400	788.00/M	009258008004063
	8	With SMT and Mating PCB Location Bosses (top and bottom side)	478-5496-1-ND	2.03	1.74	1.35	478-5496-2-ND	1,400	788.00/M	009258008004064
		0.80mm Stack Height								
2	8	With Mating PCB Location Bosses (top side)	478-5497-1-ND	2.03	1.74	1.35	478-5497-2-ND	1,200	788.00/M	009258008008061
	8	Without PCB Location Bosses	478-5498-1-ND	2.03	1.74	1.35	478-5498-2-ND	1,200	788.00/M	009258008008062
	8	With SMT PCB Location Bosses (bottom side)	478-5499-1-ND	2.03	1.74	1.35	478-5499-2-ND	1,200	788.00/M	009258008008063
	8	With SMT and Mating PCB Location Bosses (top and bottom side)	478-5500-1-ND	2.03	1.74	1.35	478-5500-2-ND	1,200	788.00/M	009258008008064

0.5mm, 1.00mm and 1.25mm Fine Pitch Connectors (FFC and FPC)

Features: ZIF Right Angle: • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -20°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator and Slider: PPS, brown color

ZIF Vertical: • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -30°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled nylon, PPS

LIF Right Angle and Vertical: • Voltage: 50V • Current Rating: 0.5A maximum • Operating Temperature: -20°C ~ 70°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled PPS

Fig. 1

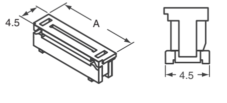

Fig. 2

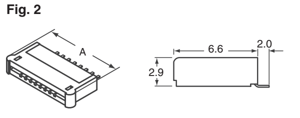

Fig. 3

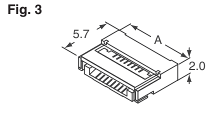

Fig. 4

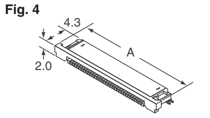

Fig. 5

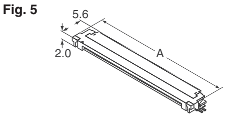

Fig. 6

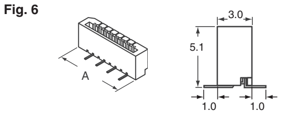

Fig. 7

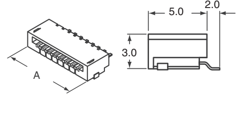

Fig. 8

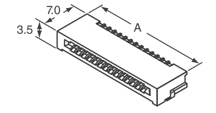

Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
				ZIF						
				1.00mm Pitch, Vertical, SMT without Boss (FPC)						
1	6	12.4	478-1959-1-ND	2.03	1.74	1.35	478-1959-2-ND	1,000	787.50	006208506110000
	10	16.4	478-1961-1-ND	2.39	2.05	1.59	478-1961-2-ND	1,000	1085.00	006208510110000
	14	20.4	478-1963-1-ND	2.75	2.35	1.83	478-1963-2-ND	1,000	1067.50	006208514210000
				1.00mm Pitch, Right Angle, SMT, Bottom Contact Type with Solder Tab, without Boss (FPC)						
2	5	12.25	478-1965-1-ND	1.53	1.31	1.02	478-1965-2-ND	1,000	595.00	006200505130000
	8	15.25	478-1967-1-ND	2.12	1.81	1.41	478-1967-2-ND	1,000	822.50	006200508130000
	14	21.25	478-1970-1-ND	2.48	2.12	1.65	—	—	—	006200514230000
				1.0mm Pitch, Right Angle, SMT, Bottom Contact with Slide Lock (FPC) — RoHS Compliant						
2	9	16.25	478-5536-1-ND	1.71	1.47	1.14	478-5536-2-ND	1,000	665.00	006200509130000+
	10	17.25	478-5600-1-ND	1.58	1.35	1.05	478-5600-2-ND	1,000	613.00	006200510130000+
				0.5mm Pitch, Right Angle, SMT, One-Touch-Flip Lock Type (FFC/FPC) — RoHS Compliant						
3	8	8.2	478-5454-1-ND	1.44	1.24	.96	478-5454-2-ND	2,000	560.00/M	046288008000846+
	10	9.2	478-5455-1-ND	1.53	1.31	1.02	478-5455-2-ND	2,000	595.00/M	046288010000846+
	12	10.2	478-5456-1-ND	1.44	1.24	.96	478-5456-2-ND	2,000	560.00/M	046288012000846+
	15	11.7	478-5457-1-ND	1.89	1.62	1.26	478-5457-2-ND	2,000	735.00/M	046288015000846+
	16	12.2	478-5458-1-ND	1.94	1.66	1.29	478-5458-2-ND	2,000	753.00/M	046288016000846+
	20	14.2	478-5459-1-ND	2.07	1.78	1.38	478-5459-2-ND	2,000	805.00/M	046288020000846+
	24	16.2	478-5460-1-ND	2.25	1.93	1.50	478-5460-2-ND	2,000	875.00/M	046288024000846+
	26	17.2	478-5461-1-ND	2.39	2.05	1.59	478-5461-2-ND	2,000	928.00/M	046288026000846+
3	30	19.2	478-5462-1-ND	2.66	2.28	1.77	478-5462-2-ND	2,000	1033.00/M	046288030000846+
	40	24.2	478-5464-1-ND	3.06	2.62	2.04	478-5464-2-ND	2,000	1190.00/M	046288040000846+
	50	29.2	478-5465-1-ND	3.56	3.05	2.37	478-5465-2-ND	2,000	1383.00/M	046288050000846+
	55	31.7	478-5466-1-ND	3.92	3.35	2.61	478-5466-2-ND	2,000	1523.00/M	046288055000846+
	60	34.2	478-5467-1-ND	4.77	4.09	3.18	478-5467-2-ND	2,000	1855.00/M	046288060000846+
				0.5mm Pitch, Right Angle, SMT, Bottom Contact with Slide Lock (FFC) — RoHS Compliant						
4	33	20.8	478-5535-1-ND	4.01	3.43	2.67	478-5535-2-ND	2,000	1558.00/M	086210033340800+
				0.5mm Pitch, Right Angle, SMT, Top Contact with Slide Lock (FFC/FPC) — RoHS Compliant						
4	33	22.8	478-5601-1-ND	2.21	1.89	1.47	478-5601-2-ND	2,000	858.00/M	086212033340800+
				0.5mm Pitch, Right Angle, SMT, Bottom Contact, One-Touch Lock, High Pin-Count — RoHS Compliant						
5	54	33.2	478-5598-1-ND	4.01	3.43	2.67	478-5598-2-ND	2,000	1558.00/M	046240054005800+
				LIF						
				1.00mm Pitch, Vertical, SMT (FPC)						
6	3	6.0	478-1980-1-ND	1.08	.93	.72	—	—	—	046232103015800
	12	15.0	478-1985-1-ND	1.44	1.24	.96	478-1985-2-ND	900	504.00	046232112015800
	14	17.0	478-1986-1-ND	1.53	1.31	1.02	478-1986-2-ND	900	535.50	046232114015800
				1.00mm Pitch, Right Angle, SMT, Top Contact Type (FPC)						
7	10	13.6	478-1976-1-ND	1.58	1.35	1.05	478-1976-2-ND	1,000	612.50	046232110103800
	12	15.6	478-1977-1-ND	1.71	1.47	1.14	478-1977-2-ND	1,000	665.00	046232112103800
				1.25mm Pitch, Right Angle, SMT, Dual-Sided Contact (FPC) — RoHS Compliant						
8	14	23.25	478-5599-ND†	2.03	1.74	1.35	—	—	—	006207341914000+

† Tube

HIROSE ELECTRIC CO., LTD.

SIM Card Sockets — ID1A Series

Dim. in mm

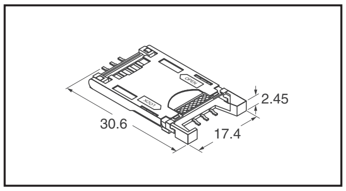

Features: Suited for Plug-in SIM Cards of the GSM Standard (11.11). SIM card Subscriber Identity Modules are used for subscriber identification with portable telephone terminals having (or using) GSM standard (11.11) plug-in SIM cards. These sockets are miniature and thin with a height of 2.45mm, length of 30.6mm, and width of 17.4mm. **Applications:** • Portable terminals and equipment that uses GSM Standard (11.11) plug-in SIM cards. **Ratings:** • Current: 1A • Temperature Range: -30°C ~ 80°C • Voltage: 100VAC

Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	Tape and Reel Pricing 500	Hirose Part No.
H10743-ND	3.48	2.70	2.16	ID1A-6S-2.54SF(71)	H10743TR-ND	695.50	ID1A-6S-2.54SF(81)

FCI ExpressCard™ Connectors

ExpressCard/34 and ExpressCard/54 Module Components and Card Kit

ExpressCard module components and kits from FCI support module manufactures' implementation of ExpressCard technology. Module components are provided for both the ExpressCard/34 module form factors.

Features: • Connector electrical performance is validated at the initial PCI Express data rate of 2.5Gb/s and the anticipated second-generation speed of 5.0Gb/s • Simple beam-on-blade contact interface is rated for up to 10,000 cycles.

Materials: • **Module Connector: Housing:** High-temperature thermoplastic **Terminal:** Copper alloy, gold over nickel in contact area, tin over nickel in solder area • **Module Card Kits: Plastic Cap:** Thermoplastic **Metal Shield:** Stainless Steel

Electrical Performance: • **Contact Resistance:** Initial 40mΩ maximum; 55mΩ maximum after test • **Current Rating:** 0.75A per contact • Meets insertion loss, return loss and crosstalk requirements in ExpressCard standard release 1.0

Environmental: • **Durability Rating (mating/unmating):** 10,000 cycles • **Field Temperature:** -65°C • **Field Life:** 5 years • **Temperature Life (preconditioning):** -105°C for 72 hours • **Temperature Life:** -105°C for 120 hours • **Mixed Flowing Gas Duration:** 7 days

Mechanical Performance: • **Durability:** 10,000 mating cycles • **Insertion Force:** 39N maximum • **Withdrawal Force:** 3.7N minimum; 18.5N maximum

ExpressCard Host Connectors and Universal Slot Systems

ExpressCard host connectors and systems from FCI support host systems manufactures' implementation of ExpressCard technology.

Features: • Connector electrical performance is validated at the initial PCI Express data rate of 2.5Gb/s and the anticipated second-generation speed of 5.0Gb/s • Simple beam-on-blade contact interface is rated for up to 5,000 cycles.

Materials: • **Host Connector: Housing:** High-temperature thermoplastic **Terminal:** Copper alloy, gold over nickel in contact area, tin over nickel in solder area • **Host System: Cam Housing:** Thermoplastic **Metal Shield:** Stainless Steel

Electrical Performance: • **Contact Resistance:** Initial 40mΩ maximum; 55mΩ maximum after test • **Current Rating:** 0.75A per contact • Meets insertion loss, return loss and crosstalk requirements in ExpressCard standard release 1.0

Environmental: • **Durability Rating (mating/unmating):** 5,000 cycles • **Field Temperature:** -65°C • **Field Life:** 5 years • **Temperature Life (preconditioning):** -105°C for 72 hours • **Temperature Life:** -105°C for 120 hours • **Mixed Flowing Gas Duration:** 7 days

Mechanical Performance: • **Durability:** 5,000 mating cycles • **Insertion Force:** 39N maximum • **Withdrawal Force:** 3.7N minimum; 18.5N maximum

Fig. 1

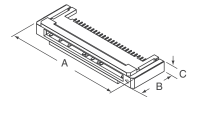

Fig. 2

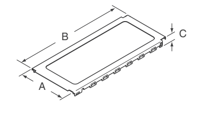

Fig. 3

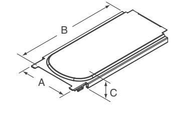

Fig. 4

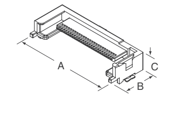

Fig. 5

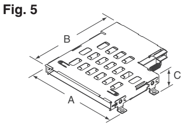

Fig. 6

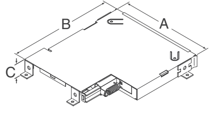

Fig.	Description	Dimensions - mm A	B	C	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
	ExpressCard/34 and ExpressCard/54 Systems											
1	Modular Connector	34.00	11.00	4.00	609-1081-1-ND§	3.43	2.10	1.88	609-1081-2-ND	480	914.40	10030570-2112LF
	Modular Connector	34.00	11.00	4.00	609-3443-1-ND§	2.63	1.91	1.70	609-3443-2-ND	480	934.38	10030570-3112LF
2	ExpressCard/34 Top Shield	31.00	70.70	3.30	609-1082-ND	1.68	.91	.78	—	—	—	10030573-100LF
3	ExpressCard/34 Bottom Shield	31.50	66.50	4.10	609-1084-ND	1.94	1.05	.92	—	—	—	10030574-0010LF
	ExpressCard/34 Bottom Shield	31.50	66.50	4.10	609-1085-ND	2.33	1.34	1.16	—	—	—	10030574-2100LF
	ExpressCard Host Systems											
4	Host Connector	38.20	15.15	7.70	609-1073-1-ND§	2.61	1.55	1.37	609-1073-2-ND	200	296.33	10056265-122ABTLF
	Host Connector	38.20	13.15	5.50	609-1075-1-ND§	2.11	1.27	1.11	609-1075-2-ND	400	486.00	10053826-100ABTLF
	Host Connector	38.20	13.15	5.50	609-1077-1-ND§	2.51	1.48	1.28	609-1077-2-ND	200	276.51	10055262-100BBTLF
	Host Connector	38.20	13.15	5.50	609-1080-1-ND§	2.21	1.27	1.13	609-1080-2-ND	200	211.74	10058937-100ABTLF
5	Host System (Card Push)	62.30	62.20	8.40	609-1074-ND	4.82	3.02	2.76	—	—	—	10038774-22ALF
6	Host System (Card Push)	63.30	62.15	6.20	609-1078-ND	4.94	3.07	2.78	—	—	—	10055263-00BLF

§ Cut Tape

SmartCard Connectors

Fig. 1

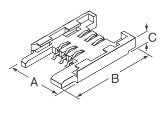

Fig. 2

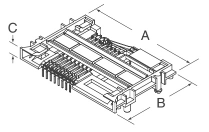

Fig. 3

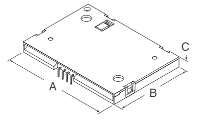

Fig. 4

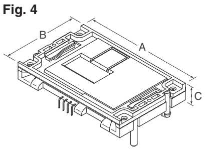

Fig. 5

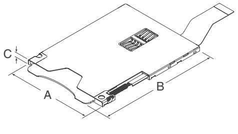

Fig. 6 ***NEW!***

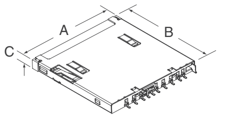

Fig.	Description	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
	SimCard Connectors											
1	6 Position with Switch, SMD	0.67 (17.00)	1.00 (25.50)	0.15 (3.70)	609-1400-1-ND§	1.87	1.11	.96	609-1400-2-ND	650	577.20	7111S1615A01LF
	6 Position with Cover, SMD	0.68 (17.20)	1.16 (29.50)	0.10 (2.50)	609-1401-1-ND§	1.24	.71	.58	609-1401-2-ND	1,400	512.25/M	7111S2015X02LF
	6 Position with Cover, SMD	0.79 (20.00)	1.18 (30.00)	0.12 (3.00)	609-1402-1-ND§	1.25	.68	.58	609-1402-2-ND	800	409.55	7112S0815X19LF
	8 Position with Cover, SMD	0.79 (20.00)	1.18 (30.00)	0.12 (3.00)	609-1403-1-ND§	2.35	1.41	1.23	609-1403-2-ND	800	742.17	7112S0825X01LF
	SmartCard Connectors											
2	8 Position with Cover, PCB	2.44 (62.00)	1.57 (40.00)	0.24 (6.20)	609-1404-ND	1.57	.88	.76	—	—	—	7334L2622F01LF
	8 Position with Cover, PCB	2.44 (62.00)	1.57 (40.00)	0.24 (6.20)	609-1405-ND	1.61	.91	.78	—	—	—	7334L2622F04LF
	8 Position with Cover, PCB	2.44 (62.00)	1.57 (40.00)	0.24 (6.20)	609-1407-ND	1.61	.89	.77	—	—	—	7334L2622F13LF
3	8 Position, PCB	2.19 (55.50)	1.57 (40.00)	0.21 (5.40)	609-1409-ND	6.04	4.02	3.60	—	—	—	7431E0225S01LF
	8 Position, PCB	2.19 (55.50)	1.57 (40.00)	0.21 (5.40)	609-1410-ND	5.15	3.28	3.00	—	—	—	7432E0225S01LF
4	8 Position, PCB	1.23 (31.16)	1.57 (40.00)	0.16 (4.00)	609-1413-ND	3.33	2.06	1.81	—	—	—	7832C0425X01LF
	8 Position, PCB	2.44 (62.00)	1.57 (40.00)	0.26 (6.50)	609-1414-ND	1.75	.97	.84	—	—	—	52400-25ALF
5	8 Position with FPC Shape, PCB	2.60 (66.00)	3.50 (88.80)	0.15 (3.70)	609-1415-ND	9.09	6.44	5.69	—	—	—	55640-20201LF
6	11 Position, SMD	1.12 (28.50)	1.14 (29.00)	0.11 (2.80)	609-3956-1-ND§ ***NEW!***	2.90	1.78	1.59	609-3956-2-ND ***NEW!***	900	1198.50	10067847-001RLF

§ Cut Tape

SCA-2 Connector System

The SCA-2 (Single Connect Attachment) connector system consists of plugs and receptacles designed to meet the industry's requirement for standard drive to backpanel interface in RAID (Redundant Array of Independent Disks) and Fibre Channel applications. The plug resides in the disk drive, while the receptacle is on the backpanel. The interface is governed by the Small Form Factor (SFF) standard. **Features:** • High reliability blade-on-beam contact design • Alignment features provide blind mating • First-Mate-Last-Break (FMLB) contacts in accordance with SFF standards pattern **Operating Performance:** • Temperature Range: -55°C ~ 105°C **Electrical Performance:** • Insulation Resistance: 1000M • Dielectric Withstand: 500V • Current Rating: 1.0A/contact • Contact Resistance: 15mΩ • Mating cycles: 500 **Materials: Receptacle:** • Housing: High temperature nylon (UL94V-0) • Color: Black • Contact: Phosphor bronze • Contact Plating: Au over Ni; Sn over Ni tails **Plug:** • Housing: LCP (UL94V-0) • Color: Black • Contact: Phosphor bronze • Contact Plating: Au over Ni; Sn over Ni tails

Fig. 1

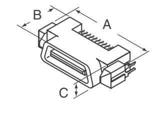

Fig. 2

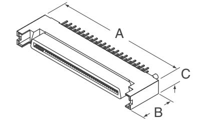

Fig.	No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
	Plug – Straddle Mount (SMT)								
1	40	1.62 (41.10)	0.50 (12.70)	0.28 (7.0)	609-1557-ND	6.39	3.97	3.60	71292-002LF
	80	2.62 (66.50)	0.50 (12.70)	0.28 (7.0)	609-1556-ND	5.45	3.41	3.12	71292-001LF
	Receptacle – PCB Mount								
2	80	2.72 (69.00)	0.45 (11.50)	0.28 (7.0)	609-1569-ND†	6.22	4.14	3.71	87566-001LF

† Press fit

9155 Size Reduced Battery Connector

Features: • 2.4mm insulator height • 3 amps/contact • Large SMT mounting area for positive mechanical attachment • 5K mating cycles • End-to-end stackable **Applications:** • Cellular phones • Handheld devices • Industrial modules • Medical electronics

Dim. in mm

Fig. 1

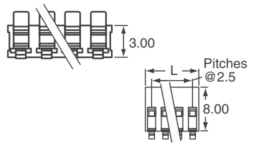

Fig. 2

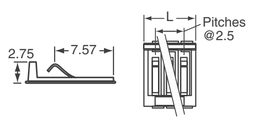

Fig. 3

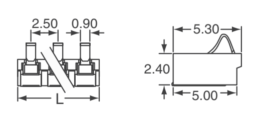

Fig. 4

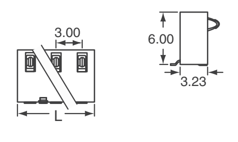

Fig. 5

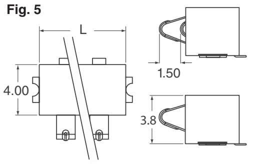

Fig.	No. of Positions	Dimension L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1	3	7.5	478-4671-1-ND	2.03	1.74	1.35	478-4671-2-ND	1,000	788.00	009155003001016
	3	7.5	478-4672-1-ND	2.07	1.78	1.38	—	—	—	009155003002016
	3	7.5	478-4673-1-ND	1.71	1.47	1.14	478-4673-2-ND	1,000	665.00	009155003003016
	4	10.0	478-4674-1-ND	2.21	1.89	1.47	478-4674-2-ND	1,000	858.00	009155004001016
	4	10.0	478-4675-1-ND	2.30	1.97	1.53	478-4675-2-ND	1,000	893.00	009155004002016
	4	10.0	478-4676-1-ND	2.34	2.01	1.56	478-4676-2-ND	1,000	910.00	009155004003016
	5	12.5	478-4677-1-ND	2.39	2.05	1.59	—	—	—	009155005001016
	5	12.5	478-4678-1-ND	2.97	2.55	1.98	—	—	—	009155005002016
	5	12.5	478-4679-1-ND	2.48	2.12	1.65	478-4679-2-ND	1,000	963.00	009155005003016
2	2	6.6	478-4680-1-ND	2.66	2.28	1.77	478-4680-2-ND	1,500	1033.00/M	009155002101006
	3	8.1	478-4681-1-ND	2.75	2.35	1.83	—	—	—	009155003101006
3	2	5.0	478-4682-1-ND	1.53	1.31	1.02	478-4682-2-ND	2,000	595.00/M	009155002201006
	3	7.5	478-4683-1-ND	1.67	1.43	1.11	478-4683-2-ND	2,000	648.00/M	009155003201006
	4	10.0	478-4684-1-ND	1.71	1.47	1.14	478-4684-2-ND	2,000	665.00/M	009155004201006
	5	12.5	478-4685-1-ND	2.48	2.12	1.65	478-4685-2-ND	2,000	963.00/M	009155005201006
4	2	5.9	478-4686-1-ND	1.53	1.31	1.02	—	—	—	009155002301006
	3	8.9	478-4687-1-ND	1.67	1.43	1.11	478-4687-2-ND	800	518.40	009155003301006
	4	11.9	478-4688-1-ND	1.80	1.54	1.20	478-4688-2-ND	800	560.00	009155004301006
	5	14.9	478-4689-1-ND	2.39	2.05	1.59	478-4689-2-ND	800	742.40	009155005301006
5	2	6.5	478-5450-1-ND	1.44	1.24	.96	478-5450-2-ND	1,000	560.00	009155002541006
	3	9.0	478-5451-1-ND	1.53	1.31	1.02	478-5451-2-ND	1,000	595.00	009155003541006
	4	11.5	478-5452-1-ND	1.71	1.47	1.14	478-5452-2-ND	1,000	665.00	009155004541006
	5	14.0	478-5453-1-ND	2.25	1.93	1.50	478-5453-2-ND	1,000	875.00	009155005541006

Memory Cards — PCMCIA PC

Dim. in mm

Features: • Single stacked header in SMT or Through Hole **Specifications:** • Number of Contacts: 68 • Pitch: 1.27mm (0.05") • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000

Fig.	Type	Keying	Button Side	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AVX Part No.
1	II	Reverse	Left	478-2009-ND	5.90	4.59	3.67	—	—	305025000321000
2	I, II, III	Normal	Right	478-4652-ND◆	6.24	4.84	3.87	—	—	315027068130871+
2	I, II, III	Normal	Right	478-4646-1-ND◆	8.85	6.87	5.49	250	1105.75	145027068130871+
3	I, II, III	Normal	Left	478-4648-ND◆	5.19	4.03	3.23	—	—	305027000101000+

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

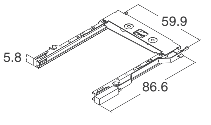

Fig. 2

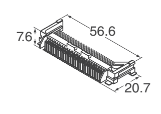

Fig. 3

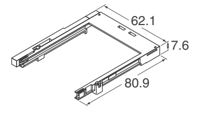

Secure Digital/SIM Connectors

Dim. in mm

5638 SERIES: Features: • SD (*Secure Digital*) Memory Card technology is emerging as the next industry standard for removable flash memory and input/output devices • Low profile • Normal and reverse keying • Card detection feature • Accepts both SD and Multimedia Cards • Mating cycles: 10,000 **Specifications:** • Current Rating: 0.5A • Voltage Rating: 5V • Insulation Resistance: 1000MΩ min. • Contact Resistance: 40MΩ maximum • DW Voltage: AC 500V • Operating Temperature: -25°C ~ 90°C **Applications:** • MP3 Players • PDAs • Cellular Phones • Digital Cameras • Digital Camcorders

5738 SERIES: Features: • Based on standard defined by I/O working of the SD Assoc., which is an SD memory card endorsement group • Low profile • Introduction of spring eject type for easy operation • Equipped with supporting metal fittings for firm mounting and enough strength as I/O by devising the insulator and the shell structure and enlarging fix metal fittings **Specifications:** • Pitch: 2.50mm • Contact Finish: Gold • Contact Finish Thickness: 0.50µm • Current: 0.50A • Voltage: 5.0V • Withstanding Voltage: 500Vrms • Flammability Rating: UL94V-0

9162 SERIES: Features: • Standard SIM *(Subscriber Identity Module)* connector is specifically designed for hand held devices • Stand-off designs allow other components to be mounted underneath the connector offering greater effective use of PCB real estate • Insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared solder processes **Specifications:** • Pitch: 2.54mm • Contact Material: copper alloy • Contact Finish: gold **Applications:** • For use with both full ISO cards and micro SIM cards

5036 SERIES: Features: • SIM connector with mounting boss • Optional card retention lock • Low profile metal body • Integral SMT strain relief tabs • Card detect switch • Push/Push card ejector **Specifications:** • Contact Material: Phosphor Bronze • Contact Finish: Gold • Flammability Rating: UL94V-0 **Applications:** • GSM or WCDMA cell phones • Navigation systems • Portable data devices

5138 SERIES: Features: • Guaranteed 10,000 mating cycles • Integral card detection switch to detect presence of card • Locking mechanism locks the card securely preventing it from falling out • Outer lead frame that is easily reworked when mounted • Withstanding voltage of AC 500Vrms/min **Applications:** • Cell phones • PDA devices • Media players

Fig.	Keying	PCB Mounting	Ejector Style	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AVX Part No.
1	Normal	Top	Push/Push	478-4057-1-ND◆	4.79	3.72	2.97	250	598.13	14563800951185 9+
2	Reverse	Bottom	Push/Push	478-4058-1-ND◆	4.79	3.72	2.97	250	598.25	145638109511859+
3	Normal	Top	Without	478-4059-1-ND◆	3.19	2.48	1.98	350	558.25	145638009211859+
4	Reverse	Bottom	Without	478-4060-1-ND◆	3.77	2.93	2.34	350	659.75	145638109211859+
5	Connector Memory Card Normal I/O			478-2020-1-ND	3.77	2.93	2.34	250	471.25	145738009783862
5	Connector Memory Card Normal I/O			478-4061-1-ND◆	5.95	4.62	3.69	250	743.25	145738009784859+
5	Connector Memory Card Reverse I/O			478-4647-1-ND◆	5.74	4.46	3.57	250	717.75	145738009220859+
6	Connector SIM Card Slide-in SMD			478-4366-1-ND◆	1.36	1.06	.85	1,100	705.00/M	009162006206175
7	Connector SIM Card 13.52mm with Boss			478-4062-1-ND◆	5.22	4.05	3.24	500	1305.00	045036006200862+
7	Connector SIM Card 6 Pos. without Boss			478-4645-1-ND◆	5.16	4.01	3.21	300	696.00	055036006202862+
7	Connector SIM Card 6 Pos. with Boss			478-5061-1-ND◆	4.00	3.11	2.49	500	1000.50	045036006219862+
7	Connector SIM Card 6 Pos. without Boss			478-5060-1-ND◆	4.00	3.11	2.49	500	1000.50	045036006211862+
7	Connector SIM Card 6 Pos. with Lock			478-5062-1-ND◆	5.37	4.17	3.33	300	804.90	055036006223862+
8	Connector MicroSD Card 1.6mm High			478-4965-1-ND◆	3.86	3.00	2.40	1,000	1929.00	045138008010890+
8	Connector MicroSD Card 2.9mm with Boss			478-5063-1-ND◆	4.70	3.65	2.92	250	587.25	145738009302859+
9	Connector SIM Card 6 Pos. w/Locking Latch			478-5344-1-ND◆	1.85	1.58	1.23	600	430.80	009162006301150
10	Connector SIM Card 6 Pos., Slide-in SMD			478-5345-1-ND◆	1.89	1.62	1.26	1,000	735.00	009162006401070
11	Connector SIM/SD Card Combo, 6 Pos.			478-5346-1-ND◆	5.09	4.36	3.39	700	1384.60	009162006501150

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

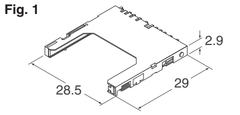

Fig. 2

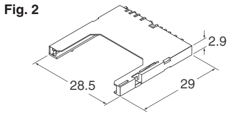

Fig. 3

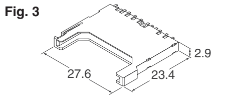

Fig. 4

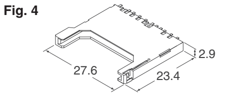

Fig. 5

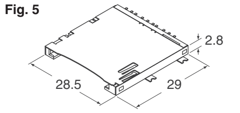

Fig. 6

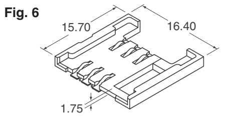

Fig. 7

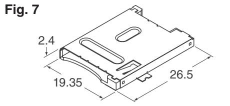

Fig. 8

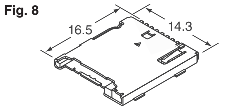

Fig. 9

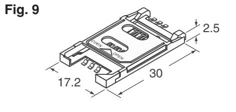

Fig. 10

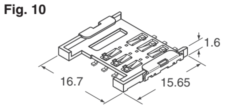

Fig. 11

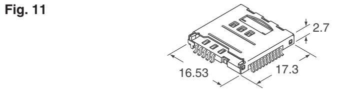

Compact Flash

Features: • Memory card connectors that support Compact Flash • Used for small portable devices **Specifications:** • Number of Contacts: 50 • Pitch: 1.27mm (0.05") • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000 **Applications:** • Digital cameras • Notebook PC • PDA

Dim. in mm

Fig.	Type	Keying	Ejector Style	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
Connectors (ejectors not included)									
1	I	Normal	—	—	478-4063-ND	5.51	4.28	3.42	315610050500871+
1	I	Normal	—	—	478-4064-ND	6.24	4.84	3.87	315610050210871+
1	I	Reverse	—	—	478-4649-ND	6.03	4.68	3.75	315610050260871+
1	I	Reverse	—	—	478-4650-ND	5.86	4.55	3.64	315610050550871+
2	II	Reverse	—	—	478-4651-ND	4.35	3.38	2.70	315620050716871+
Ejectors									
3	I	Normal	Foldable	Left	478-4065-ND	3.48	2.70	2.16	305610000005000+
4	I	Normal	Foldable	Right	478-4066-ND	3.48	2.70	2.16	305610000006000+
5	II	Normal	Foldable	Right	478-4067-ND	3.05	2.37	1.89	305620000006000+
6	I	—	—	—	478-4505-ND	2.38	1.85	1.48	705610100000000+

◆ *RoHS Compliant*

Fig. 1

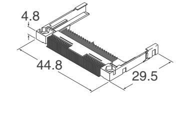

Fig. 2

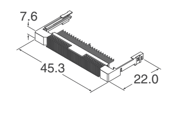

Fig. 3

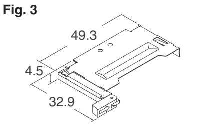

Fig. 4

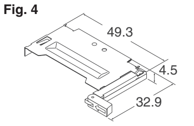

Fig. 5

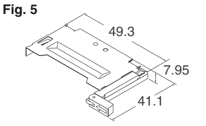

Fig. 6

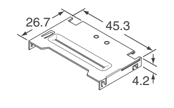

Connectors – DIN

Approvals: Din 41612/Din-EN60603-2, IEC603-2, MIL-C-55302, BS 9000, BT, NFC 93.420, PTT, UTE C 93.420, UL File #E189169, CSA File #LR 108833

Fig. 1

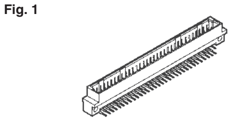

Fig. 2

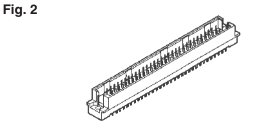

Fig. 3

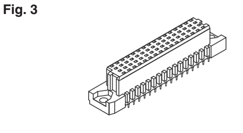

Fig.	No. of Rows	No. of Pins	Style	Digi-Key Part No.	Price Each 1	25	50	100	AVX Part No.
Plug									
1	2	64	B	478-1946-ND◆	4.34	4.03	3.26	2.72	108457064002025
	3	96	A + B + C fully loaded	478-4886-ND◆	9.44	8.77	7.08	5.90	108458096001025
	3	96	A + B + C fully loaded	478-4518-ND◆	5.54	5.15	4.16	3.47	168457096002025
	3	64	A + C fully loaded	478-4887-ND◆	7.87	7.31	5.91	4.92	108458096001026
	3	96	A + B + C fully loaded	478-4888-ND◆	9.07	8.43	6.81	5.67	108458096031025
	3	64	A + C fully loaded	478-4889-ND◆	7.48	6.95	5.61	4.68	108458096031026
	3	96	A + B + C fully loaded	478-4890-ND◆	6.33	5.88	4.75	3.96	108557096002025
	3	64	A + C fully loaded	478-4891-ND◆	4.79	4.45	3.60	3.00	108557096002026
	3	96	A + B + C fully loaded	478-4892-ND◆	7.34	6.82	5.51	4.59	168557096002025
	3	64	A + C fully loaded	478-4893-ND◆	7.34	6.82	5.51	4.59	168557096002026

Fig.	No. of Rows	No. of Pins	Style	Digi-Key Part No.	Price Each 1	25	50	100	AVX Part No.
2	3	48	R High Temperature	478-1956-ND	6.36	5.91	4.77	3.98	108577096002025
	3	96	R	478-1950-ND◆	4.56	4.24	3.43	2.86	108477096001025
	3	96	A + B + C fully loaded	478-4885-ND◆	7.90	7.34	5.93	4.94	108457096001025
	3	96	A + B + C fully loaded	478-4894-ND◆	6.44	5.98	4.83	4.03	168577096001025
Receptacle — RoHS Compliant									
3	3	48	A + B + C fully loaded	478-5123-ND	4.84	4.50	3.64	3.03	208457048001025
	3	96	A + B + C fully loaded	478-5124-ND	7.00	6.50	5.25	4.38	208457096001025
	3	64	A + C fully loaded	478-4895-ND	5.80	5.39	4.35	3.63	208458096001026

◆ *RoHS Compliant*

HIROSE ELECTRIC CO., LTD.

PCMCIA IC Memory Card Connectors

Fig. 1 — IC1 Series

The IC1 Series connectors comply with Version 3 and Version 4.2, JEIDA and PCMCIA 2.0 Standards.

Features: • Surface mount socket connectors (card side) • Off-center socket connectors high packaging profile • Surface mount header connectors are available

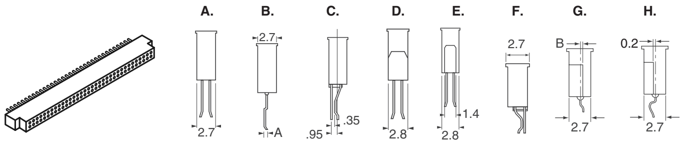

Fig. 2 — IC7 Series

The IC7 Series complies with JEIDA Version 4.2 and is suitable for use with PCMCIA Type III cards.

Features: • Small and lightweight • Two types of eject button, either left or right • Equipped with a frame ground terminal

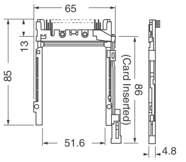

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
Socket Connector Memory Card							
1A	68	I, II	2.7mm Dual	HR1181-ND◆	6.68	56.54	IC1F-68RD-1.27SH(52)
1B	68	I, II	Single Side, A = .3mm	HR1182-ND◆	8.63	73.04	IC1F-68RD-1.27SF(52)
1B	68	I, II	Single Side, A = .854mm	HR1183-ND◆	8.55	72.38	IC1F-68RD-1.27SFA(52)
1C	68	I, II	Off-Center	HR1184-ND◆	7.70	65.12	IC1H-68RD-1.27SH(52)
1D	68	I, II	2.8mm Dual	HR832-ND	6.92	58.52	IC1BB-68RD-1.27SH
1D	68	I, II	2.8mm Dual	HR1185-ND◆	6.66	56.32	IC1BB-68RD-1.27SH(52)
1E	68	I, II	2.8mm Dual	HR1186-ND◆	8.33	72.40	IC1BA-68RD-1.27SH(52)
1F	68	I, II	2.7mm Dual	HR1187-ND◆	5.28	43.68	IC1HA-68RD-1.27SH(51)

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
1G	68	I, II	2.7mm Dual, B = .3mm	HR1188-ND◆	6.82	56.40	IC1K-68RD-1.27SF(71)
1G	68	I, II	2.7mm Dual, B = .9mm	HR1189-ND◆	6.82	56.40	IC1K-68RD-1.27SFA(71)
1H	68	I, II	2.7mm Dual	HR1190-ND◆	6.82	56.40	IC1K-68RD-1.27SFB(71)
Memory Card Connector — RoHS Compliant							
2	68	I, II, III	Light Weight, Right Eject	HR1191-ND	9.68	84.20	IC7-68PD-1.27DS-EJR(72)
2	68	I, II, III	Light Weight, Left Eject	HR1192-ND	9.68	84.20	IC7-68PD-1.27DS-EJL(72)
2	68	I, II, III	Light Weight, Rev Right Eject	HR1193-ND	9.64	83.80	IC7-68PDR-1.27DS-EJR(72)
2	68	I, II, III	Light Weight, Rev Left Eject	HR1194-ND	9.64	83.80	IC7-68PDR-1.27DS-EJL(72)

◆ *RoHS Compliant*

Card Connector SD™

Specifications: • Compatible with both SD card and multimedia card formats • Smooth push - push eject mechanism • Write protect switch indicator • Card polarization • Card detection indicator • Meets SD Card Association standards for known compatibility and reliability • Connector has a 10,000 cycle reliability
Physical: • Insulation Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: 50µ" minimum Nickel; Wiping Area: 10µ" minimum Gold; Termination Area: 100µ" maximum Matte-Tin
Electrical: • Current Rating: 0.5A • Operating Voltage: 3.6VAC
Environmental: • Operating Temperature: -25°C ~ 85°C

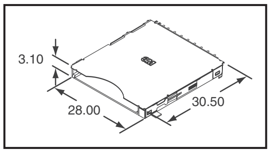

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 300	3M Part No.
SD, Push - Push Ejector, Right Angle SMT	3M5646CT-ND	1.41	1.19	1.08	3M5646TR-ND	271.32	SD-RSMT-2-MQ-WF

Card Connector microSD™

Specifications: • 1.85mm low profile height • Small size of 14.0mm x 14.2mm footprint • Smooth push - push eject mechanism • Card is retained when mated • Accepts card thickness of 0.8mm
Physical: • Insulation Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: 50µ" (1.27µm) minimum Nickel; Wiping Area: 15µ" (0.38µm) minimum Gold; Termination Area: 3µ" (0.076µm) maximum Gold flash
Electrical: • Current Rating: 0.5A
Environmental: • Operating Temperature: -25°C ~ 85°C

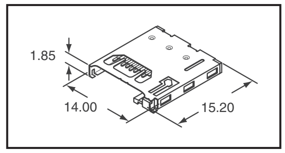

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	3M Part No.
microSD, Push - Push Ejector, SMT	3M5607CT-ND	1.25	1.05	.95	3M5607TR-ND	798.00	2908-05WB-MG

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

AMP CPU Sockets

Dimensions in mm

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
1	1207-F Right Lever	A97506-ND	35.88	26.91	25.12	1871554-1
2	mPGA 479M	A97508CT-ND†	5.90	4.20	—	1674770-6
	mPGA 479M	A97508TR-ND▲		733.60/200		1674770-6

† Cut Tape ▲ Tape and Reel

Fig. 1

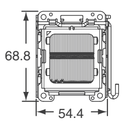

Fig. 2

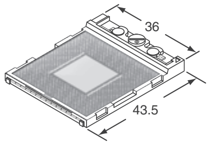

DDR, DDR2, DDR3 and Memory Socket Connectors

Fig.	Description	No. of Pos.	Gold Contact Interface	Voltage (V)	Dimensions (mm) A	B	Tail Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
1	DDR2 DIMM, Vertical, AMC, ATCA	240	30µ"	1.8	140.9	7.54	2.87	A97496-ND§	7.88	5.36	4.73	1888669-1
	DDR2 DIMM, Vertical, AMC, ATCA	240	30µ"	1.8	140.9	7.54	3.38	A97922-ND§	7.09	5.04	4.57	1888669-2
	DDR3 DIMM, Vertical	240	15µ"	1.5	141.0	7.54	2.67	A97921-ND	3.29	2.34	2.12	1-932000-0
	DDR3 DIMM, Vertical	240	15µ"	1.5	141.0	7.54	3.18	A97917-ND	3.29	2.34	2.12	1-932000-1
2	DIMM, Right Angle, Synchronous DRAM	168	Flash	3.3	141.0	6.6	—	A99606-ND§	8.78	6.24	5.66	1-5390171-5
	DIMM, Right Angle, Non-Buffered DRAM	168	Flash	3.3	141.0	6.6	—	A99607-ND§	8.78	6.24	5.66	1-5390171-6
	SO DIMM, Right Angle	144	Flash	3.3	69.9	5.6	—	A99608-ND	6.86	4.88	4.43	390111-1
	SO DIMM DDR1, DDR2 Right Angle, Standard	200	Flash	2.5	71.1	5.2	—	A99605-ND	4.23	3.01	2.73	1473005-1
	SO DIMM DDR2, SDRAM, Right Angle	200	Flash	1.8	71.0	5.2	—	A97498CT-ND†	3.60	2.56	—	1565917-4
	SO DIMM DDR2, SDRAM, Right Angle	200	Flash	1.8	71.0	5.2	—	A97498TR-ND▲		336.00/150		1565917-4
	SO DIMM DDR2, SDRAM, Right Angle, Reverse	200	Flash	1.8	71.0	5.2	—	A97499CT-ND†	3.13	2.23	—	1565918-4
	SO DIMM DDR2, SDRAM, Right Angle, Reverse	200	Flash	1.8	71.0	5.2	—	A97499TR-ND▲		291.90/150		1565918-4
	SO DIMM DDR2, Right Angle, Reverse	200	Flash	1.8	71.5	4.0	—	A97501-ND§	4.39	3.12	2.83	1717833-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Reverse	200	Flash	1.8	69.6	5.2	—	A97914-ND	16.85	11.99	10.87	1981281-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Standard	200	Flash	1.8	69.6	9.2	—	A97915-ND	17.78	12.64	11.46	1981284-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Reverse	200	Flash	1.8	69.6	9.2	—	A97916-ND	17.78	12.64	11.46	1981287-4
	MINIDIMM, Right Angle, Standard	244	Flash	1.8	93.0	9.79	—	A97925-ND	13.10	9.32	8.44	1-1735438-3

† Cut Tape ▲ Tape and Reel § Low Profile

Fig. 1

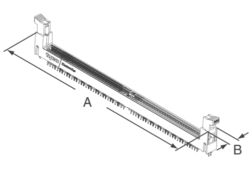

Fig. 2

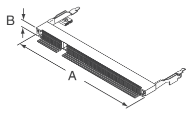

CF Card Headers

SPECIFICATIONS: • Meets CFA Standards • .050" Pitch • Flammability: UL 94V-0 • Color: Beige • Current Rating: .5A • Operating Temperature: -40°C ~ 85°C **Materials**: • Insulation: Liquid Crystal Polyester (LCP) or High Temperature Thermoplastic • Contact: Copper Alloy

Dimensions in mm

Fig.	Dim. A (mm)	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	3M Part No.
1	47.35	CF Card Ejector - Right (for Fig. 2)	3M5435-ND◊	1.83	1.42	1.14	—	—	7E50-B316-04
	49.5	CF Card Ejector, Dual Push - Right (for Fig. 2)	3M5436-ND◊	3.05	2.37	1.89	—	—	7E50-B516-05
	53.3	CF Card Ejector, Latching - Right (for Fig. 2)	3M5437-ND◊	3.86	3.00	2.40	—	—	7E50-B716-05
2	—	Type I and II, SMD, Long Guide, 15Au	3M5445CT-ND	6.09	4.73	—	90	340.20	N7E50-M516RA-40-WF
	—	Type I and II, SMD, Long Guide, 15Au, with Standoff	3M5446CT-ND	6.09	4.73	—	90	340.20	N7E50-M516RA-50-WF
	—	Type I and II, SMD, Long Guide, 30Au	3M5447CT-ND	6.24	4.84	—	90	348.30	N7E50-M516RB-40-WF
	—	Type I and II, SMD, Long Guide, 30Au, with Standoff	3M5448CT-ND	6.24	4.84	—	90	348.30	N7E50-M516RB-50-WF
	—	Type I and II, SMD, Inverse, Long Guide, 15Au, with Standoff	3M5450CT-ND	6.09	4.73	—	90	340.20	N7E50-N516RA-50-WF
	—	Type I and II, SMD, Inverse, Long Guide, 30Au	3M5451CT-ND	6.50	5.04	—	90	362.88	N7E50-N516RB-40-WF
	—	Type I and II, SMD, Inverse, Long Guide, 30Au, with Standoff	3M5452CT-ND	5.92	4.59	—	90	330.48	N7E50-N516RB-50-WF
—	—	Type I, SMD Lo-Profile, Long Guide, Ejector Non-Acceptable	3M5444-ND◊‡∆	10.18	7.90	6.32	—	—	N7E50-F516PK-30
3	—	Type I, SMD	3M5438-ND◊∆	9.11	7.07	5.66	—	—	N7E50-7516PG-20
	—	Type I, SMD, Inverse	3M5439-ND◊∆	8.85	6.87	5.49	—	—	N7E50-A516 PK-20
—	—	Card Retainer Clip (for Fig. 3)	3M5434-ND◊	2.55	1.98	1.59	—	—	3505-34
	—	Type 1, SMD Right Button Ejector (for Fig. 3)	3M5459-ND◊	4.64	3.60	2.88	—	—	D7E50-7316-02
4	—	Type I, SMD, Inverse, Lo-Profile, Ejector Acceptable	3M5440-ND◊‡∆	9.60	7.45	5.96	—	—	N7E50-A516PK-30
	—	Type I, SMD Lo-Profile, Ejector Non-Acceptable	3M5441-ND◊∆	9.60	7.45	5.96	—	—	N7E50-C516PK-30
	—	Type I, SMD Lo-Profile, Ejector Non-Acceptable	3M5442-ND◊‡∆	9.60	7.45	5.96	—	—	N7E50-D516PG-30
	—	Type I, SMD Lo-Profile, Ejector Acceptable	3M5443-ND◊‡∆	9.60	7.45	5.96	—	—	N7E50-E516PK-30
—	—	Ejector Button Right Side (for Fig. 4)	3M5460-ND◊	5.54	4.30	3.44	—	—	D7E50-8316-03
5	—	Type I and II, SMD, 15Au	3M5453CT-ND	5.92	4.59	—	125	459.00	N7E50-Q516RA-40-WF
	—	Type I and II, SMD, 15Au, with Standoff	3M5454CT-ND	6.15	4.77	—	125	477.00	N7E50-Q516RA-50-WF
	—	Type I and II, SMD, 30Au	3M5455-ND◊	4.38	3.40	2.72	—	—	N7E50-Q516RB-40
	—	Type I and II, SMD, 30Au, with Standoff	3M5456CT-ND	6.09	4.73	—	125	472.50	N7E50-Q516RB-50-WF

‡ With Solder Tab ∆ Gold Flash Finish † For Tape and Reel part number, change CT-ND to TR-ND. ◊ Bulk

Fig. 1

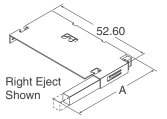

Fig. 2

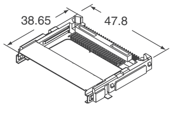

Fig. 3

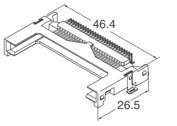

Fig. 4

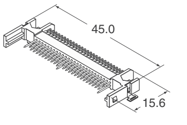

Fig. 5

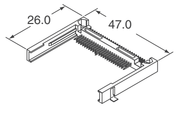

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PCMCIA IC Memory Card Connectors

Fig. 1

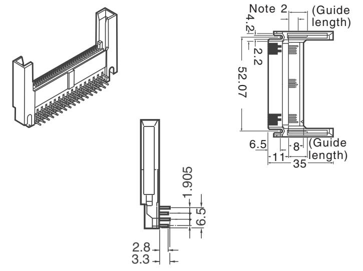

Fig. 2

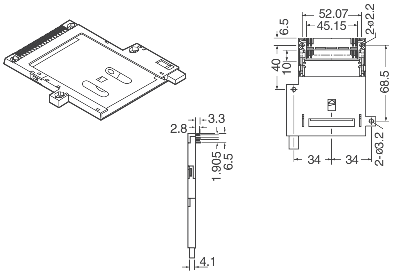

Fig. 3

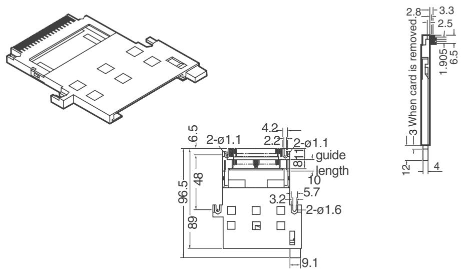

Fig. 4

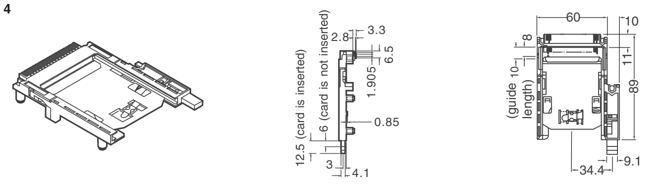

Fig. 5

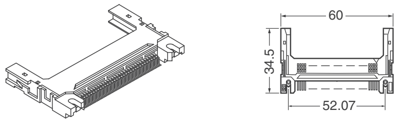

Features:

- Leading features of PCMCIA standard of mis-insertion prevention mechanism and sequencing mechanism for circuit protection, are incorporated
- Receptacle is of surface mount type
- Pushbutton switch of ejecting section has an inner spring which makes the pushbutton free from vibration.

Materials:

- Insulator: Black PPS UL94V-0
- Contact: Selective gold plating
- Ejector: SUS

Electrical Specifications:

- Current Rating: 0.5A per pin
- Rated Voltage: 125VAC
- Withstanding Voltage: 500VAC for one minute at specified value
- Insulation Resistance: Minimum 1000MΩ at 500VDC
- Contact Resistance: Maximum 40mΩ at 1mA DC

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
1	68	I, II	Memory Card Connector	HR1195-ND◆	7.07	59.84	IC1FA-68PD-1.27DS(72)
2	68	I, II	Memory Card Connector with Ejecting Mechanism	HR1196-ND◆	12.36	114.33	IC1G-68PD-1.27DS-EJ(72)
2	68	I, II	With Ejector and ESD Groundings Features	HR810-ND	11.84	109.52	IC1G-68PD-1.27DS-EJ-E
2	68	I, II	With Ejector and ESD Groundings Features	HR1197-ND◆	13.08	120.99	IC1G-68PD-1.27DS-EJ-E(72)
3	68	I, II	Memory Card Connector with Ejecting Mechanism	HR1198-ND◆	13.68	126.54	IC1F-68PD-1.27DS-EJ(72)
4	68	I, II	Memory Card Connector with Ejecting Mechanism and Std-off	HR1199-ND◆	11.82	109.34	IC1FB-68PD-1.27DS-EJ(72)
5	68	I, II	SMT Connector without Ejector	HR1200-ND◆	9.96	86.60	IC1G-68PD-1.27SF(72)

◆ *RoHS Compliant*

PCMCIA Connectors IC11S Series

Features:

- Grounding is required to meet the high speed signal requirements of the PC card standard
- Grounding reliability is achieved with a grounding plate and 8 grounding contacts
- Type I, II and III are covered. The terminals for ground clipping are provided
- Connector height is minimized to 5.6mm, making possible thinner product designs
- Weight of 12.7g for normal button type helps achieve the reduced weight required in todays products

Material: Insulator: • PPS • Black finish • UL94V-0

Contact:

- Card Connected Section:
- Brass
- Contact section: Gold Plating
- Lead Section: Solder Plating
- Contact Ground Plate:
- Phosphor Bronze
- Contact Section: Gold Plating
- Lead Section: Solder Plating Eject Metal Fittings, Guide Plate and Push Rod:
- Stainless Steel Eject Button:
- PBT
- Black finish
- UL94V-0

Electrical Specifications:

- Current Rating: 0.5A per pin
- Rated Voltage: 125VAC
- Withstanding Voltage: 500VAC for one minute at specified value
- Insulation Resistance: Minimum 1000MΩ at 500VDC
- Contact Resistance: Maximum 40MΩ at 1mA DC
- Operating Temperature: -55°C ~ 85°C

Connectors and Ejection guides are sold separately.

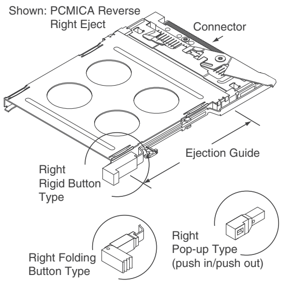
Shown: PCMICA Reverse Right Eject
Connector
Ejection Guide
Right Rigid Button Type
Right Pop-up Type (push in/push out)
Right Folding Button Type

Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
PCMCIA Standard Right Eject					
Guide Rigid Button	HR1128-ND	4.06	33.60	140.00	IC11S-BD-EJR
Guide Folding Button	HR1129-ND	4.99	41.28	172.00	IC11S-BD-FEJR
Guide Rigid Button	HR1133-ND	4.06	33.60	140.00	IC11SA-BD-EJR
SMT Connector, 68 position 1.27mm	HR1201-ND	8.79	76.40	343.80	IC11S-PL-SF-EJR(71)
Guide Pop-Up Button	HR1202-ND	6.73	55.68	232.00	IC11S-BD-PEJR(71)
Guide Extended Pop-Up Button	HR1203-ND	3.83	31.68	132.00	IC11S-BD-PNEJR(71)
SMT Connector, 68 position 1.27mm	HR1204-ND	8.83	76.80	345.60	IC11SA-PL-SF-EJR(71)
Guide Pop-Up Button	HR1205-ND	6.73	55.68	232.00	IC11SA-BD-PEJR(71)
Guide Extended Pop-Up Button	HR1206-ND	3.83	31.68	132.00	IC11SA-BD-PNEJR(71)

Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
PCMCIA Standard Left Eject					
Guide Rigid Button	HR1138-ND	4.06	33.60	140.00	IC11S-BD-EJL
Guide Rigid Button	HR1143-ND	4.06	33.60	140.00	IC11SA-BD-EJL
SMT Connector, 68 position 1.27mm	HR1207-ND	8.79	76.40	343.80	IC11S-PL-SF-EJL(71)
Guide Pop-Up Button	HR1208-ND	6.73	55.68	232.00	IC11S-BD-PEJL(71)
Guide Extended Pop-Up Button	HR1209-ND	3.83	31.68	132.00	IC11S-BD-PNEJL(71)
SMT Connector, 68 position 1.27mm	HR1210-ND	8.83	76.80	345.60	IC11SA-PL-SF-EJL(71)
Guide Pop-Up Button	HR1211-ND	6.73	55.68	232.00	IC11SA-BD-PEJL(71)
PCMCIA Reverse Right Eject					
Guide Rigid Button	HR1153-ND	4.06	33.60	140.00	IC11SA-BUR-EJR
SMT Connector, 68 position 1.27mm	HR1213-ND	9.07	76.78	322.83	IC11S-PLR-SF-EJR(71)
Guide Extended Pop-Up Button	HR1215-ND	3.83	31.68	132.00	IC11S-BUR-PNEJR(71)
SMT Connector, 68 position 1.27mm	HR1216-ND	9.07	76.78	322.83	IC11SA-PLR-SF-EJR(71)
Guide Pop-Up Button	HR1217-ND	6.73	55.68	232.00	IC11SA-BUR-PEJR(71)
Guide Extended Pop-Up Button	HR1218-ND	3.83	31.68	132.00	IC11SA-BUR-PNEJR(71)
PCMCIA Reverse Left Eject					
Guide Rigid Button	HR1158-ND	4.06	33.60	140.00	IC11S-BUR-EJL
Guide Rigid Button	HR1163-ND	4.06	33.60	140.00	IC11SA-BUR-EJL
Guide Folding Button	HR1164-ND	5.37	44.40	185.00	IC11SA-BUR-FEJL
SMT Connector, 68 position 1.27mm	HR1219-ND	9.07	76.78	322.83	IC11S-PLR-SF-EJL(71)
Guide Extended Pop-Up Button	HR1221-ND	3.83	31.68	132.00	IC11S-BUR-PNEJL(71)
SMT Connector, 68 position 1.27mm	HR1222-ND	9.07	76.78	322.83	IC11SA-PLR-SF-EJL(71)
Guide Extended Pop-Up Button	HR1224-ND	3.83	31.68	132.00	IC11SA-BUR-PNEJL(71)

HIROSE ELECTRIC CO., LTD.

Memory Stick® Connectors

Features:

The connector will not allow the card to be completely inserted from the wrong end or reversed

Specifications:

• Insulation Resistance: 1000MΩ minimum • Withstanding Voltage: No Flashover or insulation breakdown • Contact Resistance: 100mΩ maximum • Durability (mating/ unmating): 12,000 cycles at 400 to 600 cycles per hour • Current Rating: 0.5A • Voltage rating: 125VAC • Operating Temperature: -20°C ~ 85°C

Materials:

- **Insulator:** Heat resistant glass reinforced thermoplastic compound, Black, UL94V-0
- **Contacts:** Phosphor Bronze, Contact Area: Gold plating, Termination Area: Solder plating
- **Metal Hold Down:** Phosphor Bronze, Contact Area: Nickel plating, Termination Area: Solder plating
- **Cover:** Stainless Steel
- **Ejection Mechanism Components:** Stainless Steel

Dimensions in mm

Fig. 1

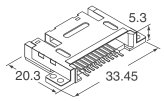

Fig. 2

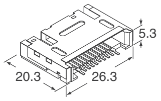

Fig. 3

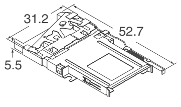

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	10 Pos. with Flange for Screw Attachment	HR1837-ND	5.92	4.90	3.68	CB1A-10S-1.5H(52)
2	10 Position without Flange	HR1838-ND	4.64	3.84	2.88	CB1AA-10S-1.5H(52)
3	10 Position, Right Ejection	HR1836-ND	8.76	7.42	5.57	CB1C-10S-1.5H-EJR(52)

DM1 Series Secure Digital Memory Card Connectors

Features:

- Metal cover extends over the back of the connector allowing it to withstand force of up to 400N (static load) when dropped or accidentally hit
- Built-in lock feature holds the card securely in place
- Built-in Push-in/Push-out ejection mechanism
- Designed to accept secure Digital I/O card (Built-in Ground Contact)

Applications:

Notebook PCs, digital cameras, PDAs, audio/video equipment and other devices utilizing SD I/O cards

Fig. 1

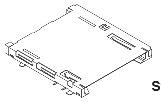

Standard Type

Fig. 2

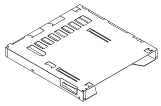

Reverse Type

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 450	Hirose Part No.
1	HR845CT-ND	3.97	77.06	246.60	HR845TR-ND	894.15	DM1AA-SF-PEJ(21)
2	HR846CT-ND	3.45	66.94	214.20	HR846TR-ND	776.70	DM1B-DSF-PEJ(22)

DM2 Series miniSD™ Memory Card Connectors

Features:

• The world's smallest mounting area with the world's smallest depth • Card capturing mechanism prevents card from flying out at ejection • Ejection does not work for reverse insertion detecting mis-insertion easily. Card is firmly locked in use for card fall-out prevention • Enhanced grounding for noise (EMI) reduction (PAT.P) • Reliable two-point connection with double contacts

Applications: • Mobile phone • PDA

Specifications: • Current Rating: 0.5A • Contact Mating Area Plating: Gold • Operating Temperature Range: -20°C ~ 85°C • PCB Mount Type: SMT

Dimensions in mm

Fig. 1

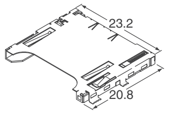

Top Mount

Fig. 2

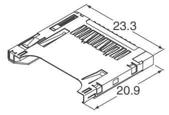

Bottom Mount

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 800	Hirose Part No.
1	HR847CT-ND	2.83	54.38	174.00	HR847TR-ND	974.40	DM2A-SFW-PEJ-S
2	HR848CT-ND	2.83	54.38	174.00	HR848TR-ND	974.40	DM2B-DSFW-PEJ-S

DM3 Series microSD™ Memory Card Connectors

Features:

• Miniaturized design for space-saving PCB mounting • Innovative tray slide ejector of card push-in push-out ejection prevents card from flying out • User-friendly mis-insertion prevention to protect the card from damages caused by unintentional card operation • Innovative push-in push-out card ejection mechanism will eject card to a distance of 4mm • 4 corners of metal cover earthed on PCB enhance grounding and increase the shield effect.

Specifications:

• **Current Rating:** 0.5A • **Operating Temperature:** -25°C ~ 85°C • **Contact Mating Area:** Gold plating • **Terminal Pitch:** 1.1mm • **PCB Mount Type:** SMD

Fig. 1

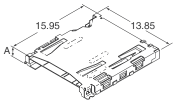

Fig. 2

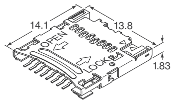

Fig. 3

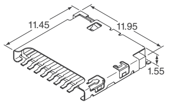

Fig.	No. of Pins	Description	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Hirose Part No.
1	8	Right Angle Push-Push SMD	1.68	HR1939CT-ND	2.93	2.25	1.80	DM3AT-SF-PEJ
	8		1.68	HR1939TR-ND‡	1795.50/1,500			
	8	Right Angle Push-Push SMD (Reverse Type)	1.83	HR1942CT-ND	2.76	2.13	1.70	DM3BT-DSF-PEJS
	8		1.83	HR1942TR-ND‡	1356.60/1,200			
2	8	Right Angle Push-Pull Hinge Type SMD	—	HR1940CT-ND	2.02	1.55	1.24	DM3C-SF
	8		—	HR1940TR-ND‡	1072.50/1,300			
3	8	Right Angle Push-Pull SMD	—	HR1941CT-ND	1.92	1.48	1.18	DM3D-SF
	8		—	HR1941TR-ND‡	1504.00/2,000			

‡ Tape and Reel

Compact Flash Card Connectors

Card Headers - MI21 Series-Type I or II Cards

Features:

• Compact design • Card ejection mechanism • Two point ejection mechanism to assure even card ejection • Designed and packaged for board placement with automatic equipment

Materials and Finishes:

• **Insulator:** PPS resin, Black, UL94V-0 • **Contacts:** Brass • **Engagement Area:** Gold plating of 0.1μm • **Termination Area:** Solder plating • **Reinforced Fitting:** Brass, Applied to eject mechanism • **Eject Fitting:** Stainless steel • **Ground Clip:** Stainless steel, Applied to MI21 • **Nut:** Steel, Solder plating. • **Max. Reflow Temperature:** 240°C

Fig. 1

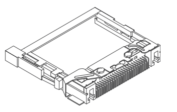

Fig. 2

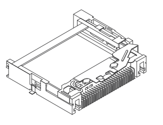

Fig. 3

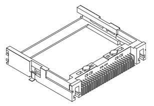

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	Rt. Side Eject Button, 0.0mm, Standard Mounting	H10740-ND	7.83	6.63	4.97	MI21-50PD-SF-EJR(71)
	Rt. Side Eject Button, 2.2mm, Standard Mounting	H10736-ND	7.80	6.60	4.95	MI21A-50PD-SF-EJR(71)
2	Lt. Side Eject Button, No Offset, Standard Mounting	H10741-ND	7.54	6.38	4.79	MI21-50PD-SF-EJL(71)
	Lt. Side Eject Button, 2.2mm Offset, Stnd. Mounting	H10737-ND	8.45	7.15	5.37	MI21A-50PD-SF-EJL(71)
3	No Eject Button, No Offset, Standard Mounting	H10742-ND	7.51	6.36	4.77	MI21-50PD-SF(71)
	No Eject Button, No Offset, Reverse Mounting	H10739-ND	7.08	5.86	4.40	MI21A-50PDR-SF(71)
	No Eject Button, 2.2mm Offset, Standard Mounting	H10738-ND	7.02	5.94	4.46	MI21A-50PD-SF(71)

Smart Card Sockets

Features: • Suited to Smart Cards Conforming to ISO-7816 • Sockets are available with 8 contacts only, in conformity with ISO-7816 • A switch that detects whether the smart card has been inserted securely prevents erroneous operation. This switch will be set to OFF (the nonconducting condition) when the smart card has been inserted all the way.

Applications: Digital satellite broadcast receivers (IRD) and other devices that use smart cards.

Specifications: • **Current Rating**: 1A • **Voltage Rating**: 150VAC • **Operating Temperature**: -50°C ~ 80°C • **Operating Humidity**: 40% ~ 80% **Material**: • **Insulator**: PBT • **Finish**: Black • **Signal Contacts**: Phosphor bronze • **Contact Portion**: Gold plating • **Lead Portion**: Solder plating • **Switch Contacts**: Phosphor bronze or brass • **Finish**: Gold plating

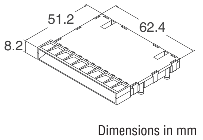

Dimensions in mm

No. of Pins	Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
8	Smart Card, 2.54mm, Right Angle Connector	H10744-ND	5.25	43.44	181.00	ID2M-8S-2.54DS(72)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

molex

DIMM Sockets

Dim. in mm

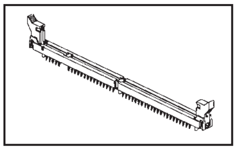

Features: • Accepts JEDEC M0-161 modules • Dual ejector latches for easy module removal • Palladium nickel with gold flash plating for improved reliability • Added contact wipe for improved reliability **Specifications:** ***Electrical:*** • Voltage: 100V • Current: 1A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 100MΩ minimum ***Mechanical:*** • Mating Force: 5oz. per pair • Durability: 25 cycles minimum ***Physical:*** • Housing and Latch: High temperature resistant thermoplastic, UL94V-0 • Contact: Phosphor Bronze • Plating: Selective palladium nickel with gold flash with tin/lead on solder tails • Temperature: -40°C ~ 85°C

Description	Circuits	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
DRAM 3.3V	168	WM1710-ND	6.06	5.56	5.06	71251-0001
SDRAM 3.3V	168	WM1714-ND◆	6.06	5.56	5.06	71251-0016
Unbuffered 3.3V	168	WM1712-ND◆	6.06	5.56	5.06	71251-0012
Unbuffered 3.3V	100	WM2079-ND◆	6.06	5.56	5.06	71251-5101
Unbuffered 3.3V	168	WM18720-ND◆	4.81	4.42	4.02	71736-0011
DRAM and SDRAM 3.3V	168	WM2062-ND◆	6.13	5.62	5.11	87587-2050
DRAM and SDRAM 3.3V	168	WM2063-ND◆	6.13	5.62	5.11	87587-2059

◆ ***RoHS Compliant***

DDR/DDR2/DDR3 DIMM Sockets

Features: • Accepts JEDEC MO-206 Modules • Dual ejector latches for easy module removal
Physical Specification: • Housing: High-temperature, UL94V-0

Note: *Please see Digi-Key's website for data sheets.*

Dim. in mm

Fig. 1

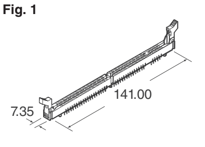

Operating Temperature: -55°C ~ 85°C; WM7315 and WM7348: -10°C ~ 85°C; WM7319: -40°C ~ 85°C

Fig. 2

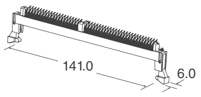

Operating Temperature: -40°C ~ 85°C

Fig. 3

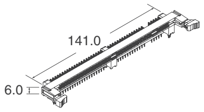

Operating Temperature: -10°C ~ 85°C

Fig. 4

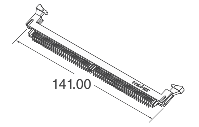

Operating Temperature: -55°C ~ 85°C

Fig. 5

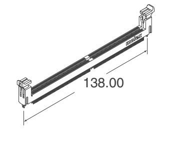

Operating Temperature: -10°C ~ 85°C

Fig. 6

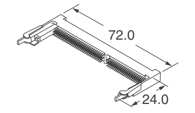

Fig.	Description	Cir-cuits	Contact Material	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
DDR — Left (2.5V)								
1	Vertical	184	Phos. Bronze	WM7315-ND	6.19	5.68	5.16	87636-2002
	Vertical	184	Phos. Bronze	WM7319-ND	6.49	5.95	5.41	71243-3002
2	25° Angle, Low Profile	184	Copper Alloy	WM7316-ND	8.36	7.67	6.97	87623-2001
3	Right Angle	184	Copper Alloy	WM7317-ND	13.55	12.43	11.30	87655-0004
6	Right Angle SMD	200	Copper Alloy	WM19153-ND	8.48	7.78	7.07	78308-1130
	Right Angle SMD	200	Copper Alloy	WM19155CT-NDΔ	9.65	8.17	7.42	78309-1730
DDR2 — Center (1.8V)								
1	Vertical	240	30µ" Gold	WM7348-ND	13.14	12.05	10.96	87966-0001
	Vertical	240	30µ" Gold	WM7350-ND	12.73	11.68	10.62	87746-9011
4	22.5° Angle	240	Copper Alloy	WM7356-ND	22.05	20.21	18.38	87916-0111
	25° Angle	240	15µ" Gold	WM7355-ND	13.53	12.41	11.28	87803-0012
	25° Angle, Low Profile	240	15µ" Gold	WM7349-ND	8.55	7.85	7.13	87803-0002
	25° Angle	240	30µ" Gold	WM7351-ND	23.19	21.27	19.33	87803-0112
	25° Reverse Angle	240	30µ" Gold	WM7357-ND	16.96	15.55	14.14	87919-0011
5	Vertical	240	15µ" Gold	WM2064-ND	7.29	6.69	6.08	87705-0021
	Vertical	240	30µ" Gold	WM2065-ND	8.40	7.70	7.00	87705-1051
DDR3 — Center (1.5V)								
1	Vertical SMD	240	Copper Alloy	WM7358-ND	10.60	9.72	8.84	78156-0001
	Vertical T/H	240	Copper Alloy	WM7359-ND	5.09	4.67	4.24	78321-0011
	Vertical Pressfit SMD	240	Copper Alloy	WM7360-ND	10.81	9.92	9.01	78315-0001
	Vertical T/H	240	Copper Alloy	WM19159-ND	9.54	8.75	7.95	78079-0001
DDR3 — Left (2.5V)								
6	Right Angle SMD	204	Copper Alloy	WM19151-ND	3.60	3.31	3.01	78121-0001
	Right Angle SMD	204	Copper Alloy	WM19152-ND	3.60	3.31	3.01	78279-0001

Δ Cut Tape

S.O. DIMM Sockets

Dim. in mm

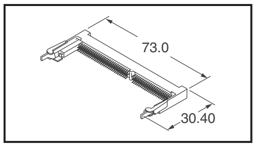

Features and Benefits: • 144 circuits • S.O. DIMM sockets accept JEDEC standard DRAM and SDRAM modules; SGRAM socket accepts JEDEC standard SGRAM modules • Plastic latch prevents scratching of module, while metal anti-overstress feature protects latch from bending too far in or out • Front solder tabs provide secure PCB hold-down • Polarization key assures proper module insertion
Specifications: ***Electrical:*** • Power Supply: 3.3V • Voltage: 100V • Current: 0.3A • Dielectric Withstanding Voltage: 200V AC/1 minute • Insulation Resistance: 1000MΩ minimum
Physical: • Temperature: -55°C ~ 85°C

Description	Maximum Contact Resistance	Mounted Height (mm)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
SMT, Right Angle	50mΩ	4.0	WM18588-ND	6.66	6.11	5.55	54697-7000
SMT, Right Angle	50mΩ	4.0	WM19015-ND	6.66	6.11	5.55	54697-7001
SMT, Right Angle	60mΩ	5.2	WM18581-ND	7.92	7.26	6.60	54698-7000
SMT, Right Angle	60mΩ	5.2	WM19014-ND	6.81	6.24	5.68	54698-7001

miniDIMM Sockets

Features: • Polarization keys ensure proper module insertion • Ergonomic plastic latch provides excellent module retention and easy ejection of module • Center plastic peg ensures good location during placement to PCB • Fitting nails at both ends and center of housing will provide additional mechanical strength after soldering • Low profile socket will fit into slim enclosures
Specifications: ***Electrical:*** • Current: 1A maximum • Voltage: 30V maximum ***Physical:*** • Black, UL94V-0 • Contacts: Copper Alloy • Plating Contacts: 0.76µm Gold • Plating Tail: Tin

Dim. in mm

Fig. 1

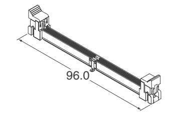

(Top Entry)

Fig. 2

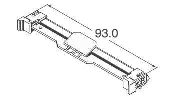

Fig. 3

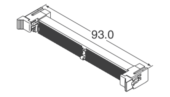

(Side Entry)

Fig.	Description	Voltage Key	Cir-cuits	Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Vertical	1.8V	244	-10 ~ 85	WM23938-ND	23.32	21.38	19.44	87782-2001
	Vertical	1.5V	244	-55 ~ 85	WM24087-ND	24.38	22.35	20.32	87782-3003
2	22.5° Angle	1.8V	244	-10 ~ 85	WM23939-ND	24.17	22.16	20.14	87783-0001
	22.5° Angle	1.5V	244	-55 ~ 85	WM24088-ND	32.01	29.35	26.68	87783-0301
	22.5° Reverse Angle	1.5V	244	-55 ~ 85	WM24089-ND	32.01	29.35	26.68	78035-0301
3	Right Angle	1.8V	244	-10 ~ 85	WM2066-ND	24.17	22.16	20.14	87918-0001
	Right Angle	1.5V	244	-55 ~ 85	WM24090-ND	39.44	36.16	32.87	87918-0301
	Reverse Right Angle	1.8V	244	-10 ~ 85	WM23940-ND	24.17	22.16	20.14	78001-1244
	Reverse Right Angle	1.5V	244	-55 ~ 85	WM24091-ND	40.06	36.72	33.38	78001-3344

ExpressCard™

Specifications:

Electrical: *47150 Series Header:* • Current: 0.75A maximum • Voltage: 3.3VDC maximum • Withstanding Voltage: 500VAC • Contact Resistance: 55mΩ maximum • Insulation Resistance: 100MΩ minimum; *47150 Series Ejectors:* • Current: 0.75A maximum • Voltage: 3.3VDC maximum • Shielded; *47322 Series Headers and Ejector:* • Current: 0.75A maximum • Voltage: 3.3VDC maximum

Physical: *47150 Series Header:* • Housing Material: Thermoplastic, High Temperature • Contact Material: Phosphor Bronze • Plating Tail: Tin, Lead-free • Plating Contact: Gold • Flammability: UL94V-0 • Pitch: .039" (1.00mm); *47322 Series Headers:* • Contact Material: Phosphor Bronze • Plating Tail: Tin • Plating Contact: Gold • Pitch: .039" (1.00mm); *47150 Series Ejectors:* • Material: Stainless Steel • Push-Push Type; *47322 Series Ejectors:* • Push-Push Type

Operating Temperature Range: *47150 Series Headers and Ejector:* • 0°C ~ 55°C; *47322 Series Headers and Ejector:* • -40°C ~ 85°C

Dim. in mm

Fig. 1

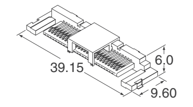

Fig. 2

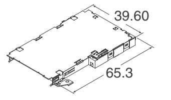

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Header, 26 Circuits, SMT, Bottom Mount	WM9016CT-NDΔ	2.48	2.10	1.91	47322-0002
	Header, 26 Circuits, SMT, Bottom Mount	WM9016TR-ND‡		854.40/800		47322-0002
2	Ejector Bottom Mount for 34mm (1.34") Width Card	WM9016-ND	4.58	4.20	3.82	47322-0003

Δ Cut Tape ‡ Tape and Reel

SD Memory Card Connector

Dim. in mm

Specifications: ***Physical:*** • Housing Material: Liquid Crystal Polymer • Flammability: UL94V-0 • Color: Black • Contact: Copper Alloy • Plating Tail: Gold • Plating Contact: Gold • Button Type: Push-Push • Shielded: Yes • PCB Mounting: Surface Mount • PCB Mounting Side: Top

Fig.	Current Max.	Voltage Max.	Withstanding Voltage	Contact Resistance	Insulation Resistance	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Molex Part No.
1	0.5A	100VAC	500VAC	80mΩ	1000MΩ	WM24032CT-ND	6.06	4.67	3.74	400	1044.80	500998-0900
2	0.5A	250VDC	500VAC	100mΩ	100MΩ	WM19017CT-ND	8.23	6.33	5.07	400	1417.60	67600-8001

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

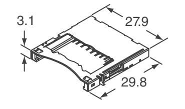

Fig. 2

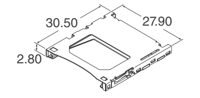

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

molex

Miniature Memory Card Connector System

Digi-Reel® RoHS

SD Memory Card Connector, Standard Mount Type: Physical Specifications: • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C ~ 85°C **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 250VDC maximum • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ maximum • Insulation Resistance: 100MΩ minimum • Normal Force (per circuit): 0.20N (0.04lb) minimum

SDIO Memory Card Connector, Reverse Mount Type: Physical Specifications: • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Phosphor Bronze • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C ~ 90°C **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 100V maximum • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ maximum • Insulation Resistance: 100MΩ minimum • Normal Force (per circuit): 0.20N (0.04lb) minimum

microSD Memory Card Connector, Low-Pro and Normal Mount SMT, Push-Push Type: Physical Specifications: • Color-Resin: Black • Pitch-Term. Interface: 1.10mm • Temperature Range: -25°C ~ 85°C • Housing Material: LCP Liquid Crystal Polymer • Terminal: Copper Alloy • Contacts: Gold • Plating Tail: Tin • Shell: Stainless Steel, Nail Area • Under Plating: Nickel **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 10V AC(RMS)/DC maximum

microSD Memory Card Connector, Reverse Mount SMT, Push-Push Type: Physical Specifications: • Color-Resin: Black • Pitch-Term. Interface: 1.10mm • Temperature Range: -25°C ~ 85°C • Housing Material: LCP Liquid Crystal Polymer • Terminal: Copper Alloy • Contacts: Gold • Plating Tail: Tin • Shell: Stainless Steel, Nail Area • Under Plating: Nickel **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 10V AC(RMS)/DC maximum

MultiMediaCard Connector, Unshielded, Low Profile, Right Angle, SMT: Physical Specifications: • Color-Resin: Black • Pitch-Term. Interface: 2.50mm • Temperature Range: -25°C ~ 90°C • Housing Material: LCP Liquid Crystal Polymer • Terminal: Phosphor Bronze • Contacts: Gold • Plating Tail: Tin **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 3.3V DC maximum

ChipSIM Card Reader, with Ejector, with Pegs, SMT: Physical Specifications: • Color-Resin: Black, Natural • Ejector Button Side: Left • Material-Metal: Phosphor Bronze, Piano wire, Stainless Steel • Material-Plating Mating: Gold • Material-Resin: High Temperature Thermoplastic • Pitch-Mating Interface: 2.54mm • Temperature Range: -30°C ~ 85°C **Electrical Specifications:** • Current: 0.5A maximum • Voltage: 50VDC maximum

Dimensions in mm

Fig. 1 — SD Memory Card Connector, Standard Mount Type

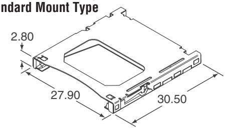

Fig. 2 — SDIO Memory Card Connector, Reverse Mount Type

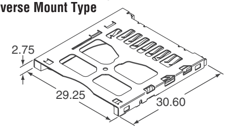

Fig. 3 — microSD Memory Card Connector, Low-Pro, Push-Push Type

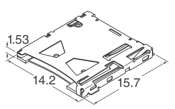

Fig. 4 — microSD Memory Card Connector, Normal Mount SMT, Push-Push Type

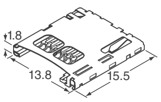

Fig. 5 — microSD Memory Card Connector, Reverse Mount SMT, Push-Push Type

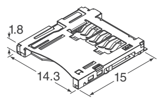

Fig. 6 — MultiMediaCard Connector, Unshielded, Low Profile, Right Angle, SMT

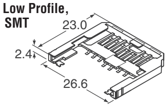

Fig. 7 — ChipSIM Connector, with Ejector, with Pegs, SMT

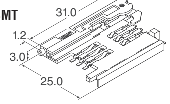

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Molex Part No.
1	WM23961CT-ND	7.45	5.73	4.59	WM23961TR-ND	400	1283.41	67600-8002
2	WM23962CT-ND	5.47	4.21	3.37	WM23962TR-ND	300	706.57	67913-0002
3	WM19092CT-ND	4.75	3.66	2.93	WM19092TR-ND	1,000	2046.00	502702-0891
4	WM19093CT-ND	2.76	2.41	1.93	WM19093TR-ND	1,300	1452.00/M	502570-0893
5	WM24066CT-ND	4.55	3.50	2.80	WM24066TR-ND	1,000	1959.00	502774-0891
6	WM24067CT-ND	3.81	2.94	2.35	WM24067TR-ND	500	821.00	94352-5007
7	WM24086CT-ND	5.24	4.03	3.23	WM24086TR-ND	400	902.40	91228-3001

TransFlash Connectors

Digi-Reel® RoHS

Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accommodates pick-and-place. Solder tails on inside of design provide space savings.

Features: • Current: 0.5A maximum • **Withstanding Voltage:** 500VAC • **Insulation Resistance:** 1000MΩ minimum • **Temperature Range:** -25°C ~ 85°C

Fig. 1

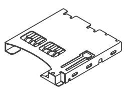

Fig. 2

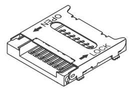

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,400	Molex Part No.
1	WM19114CT-ND	5.44	4.19	3.35	WM19114TR-ND	2345.00/M	500873-0806
2	WM19081CT-ND	4.92	3.79	3.03	WM19081TR-ND	2121.00/M	500901-0801

Compact Flash Card Connectors

Dimensions in Inches (mm) Digi-Reel®

Fig. 1

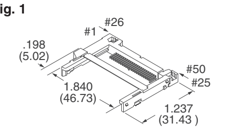

Fig. 2

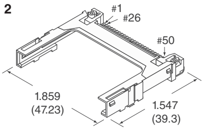

Fig. 3

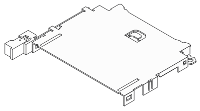

Fig. 4

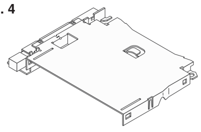

Fig. 5

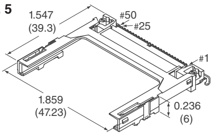

Fig. 6

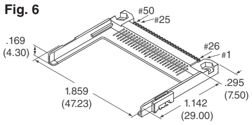

Fig. 7

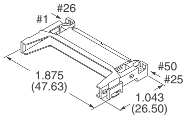

Fig. 8

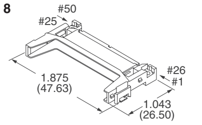

Fig. 9

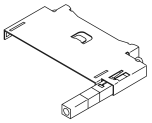

Fig. 10

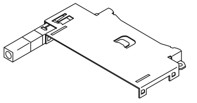

Card Headers

Features and Benefits: • Size 50 circuits • Dual-row 1.27mm (.050") pitch at card interface and 0.635mm (.025") pitch in-line SMT tails • High temperature housing suitable for reflow soldering • In-line SMT tails protect against damage during assembly

Electrical Specifications: • Voltage: 100V • Current: 0.5A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 minute • Insulation Resistance: 1000MΩ minimum

Physical Specifications: • Housing: Glass-filled LCP, UL94V-0 • Contact: Phosphor bronze • Plating: Gold over palladium nickel in contact area; tin in solder tail area, nickel underplate overall • Solder Tab: Phosphor bronze, tin over copper plating • Temperature: -20°C ~ 90°C

Card Ejectors

Features and Benefits: • Low-profile modular design snaps easily onto header • Lever design provides for smooth card extraction

Physical Specifications: • Metal Shell and Lever: Stainless steel • Top button: Glass-filled PBT, UL 94V-0

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
	For Type I and Type II Cards and Headers — RoHS Compliant					
1	Header, Right Angle, SMT, 5.85mm Low Profile Height	WM18740-ND	18.79	17.22	15.66	55244-5029
2	Top Mount Header, Right Angle, SMT, 1.65mm Standoff Height	WM18766-ND	10.26	9.41	8.55	55358-5029
3	Ejector, Left Side Flip Button (for Top or Bottom Mount Headers)	WM18767-ND	5.88	5.40	4.91	55356-0011
3	Ejector, Right Side Button (for Bottom Mount Headers)	WM18949-ND	17.84	16.36	14.87	55365-0011
4	Ejector, Left Side Button (for Top Mount Headers)	WM18768-ND	8.85	8.12	7.38	55364-0011
5	Header, Right Angle, SMT, Bottom Mount	WM18948-ND	13.86	12.71	11.55	55359-5029
	Header, Right Angle, SMT, Bottom Mount	WM19016CT-ND†	9.93	8.41	7.64	55359-5078
	Header, Right Angle, SMT, Bottom Mount	WM19016TR-ND‡		1283.40/300		55359-5078
6	Header, Right Angle, SMT, Low Profile Height, Top Mount	WM18947-ND	9.67	8.87	8.07	67155-0002
	For Type I Cards and Headers					
7	Top Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18587-ND◆	9.24	8.47	7.70	53856-5070
8	Bottom Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18743-ND◆	9.24	8.47	7.70	53927-5019
9	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND◆	6.37	5.84	5.31	55021-0001
10	Ejector, Left Side Button (for Top or Bottom Mount Headers)	WM18508-ND	6.37	5.84	5.31	55022-0001
6	Header, Right Angle, SMT, Bottom Mount	WM18946-ND◆	9.67	8.87	8.07	67155-0001

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

PC Card Headers

Dimensions in Inches (mm)

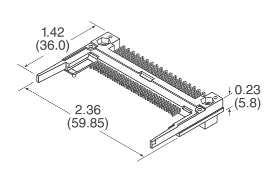

Features: • Conform to PCMCIA • Suitable for type I, II, III 3.3V, and 5V Standard

Applications: • Notebooks, portable PCs, industrial PCs, network PCs • Set-top boxes, digital TVs, home entertainment devices • Telecom, datacom equipment (switches, routers, remote access servers) • Machine control systems • Test and measurement devices, medical instrumentation

Description	No. of Positions	Voltage	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
PCMCIA							
Right Angle Single Deck, Ejector Header Assembly	68	5.0	609-1020-ND	5.91	3.70	3.38	92140-000LF

NEW! Mini SAS / SATA Connectors, Cages and Cable Assemblies

FCI's external mini-SAS/SATA connector, cage and cable assembly system solution addresses the storage industry's demand for more compact, high-speed serial I/O interfaces that also support evolving signal speed requirements. Increasing numbers of drives within a system demand additional I/O ports along a card edge, dictating more densely packaged serial I/O solutions. The mini-SAS/SATA I/O system provides a cost-effective, high-speed solution that meets the bandwidth requirements of current and future applications in servers and external storage systems. FCI's connectors and cable assemblies meet Serial Attached SCSI (SAS) or Serial ATA (SATA) requirements for mini-multilane external systems thus assuring inter-mateability with standardized port interfaces. Specifically, FCI's mini-SAS/SATA solutions satisfy the applicable requirements of the INCITS T10 SAS 2.0 and SAS 2.1 specification or the SATA-IO Serial ATA specification and conform to the mechanical requirements described in the associated SFF-8086 and SFF-8088 documents. The availability of both min-SAS and mini-SATA compatible connectors, cages and cable assemblies gives the user the option to choose the most appropriate and cost-effective link for their respective application.

Dimensions in mm

Fig. 1

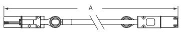

Fig. 2

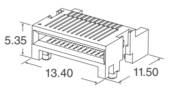

Fig. 3

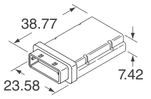

Fig. 4

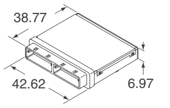

Fig.	Description	No. of Pos.	Dimension A Meters (Feet)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Mini-SAS/SATA Cable Assembly, 28 AWG	26	1.0 (3.28)	609-3969-ND	70.21	55.59	51.69	10084749-P010002LF
	Mini-SAS/SATA Cable Assembly, 28 AWG	26	1.0 (3.28)	609-3965-ND	70.21	55.59	51.69	10084749-P010003LF
	Mini-SAS/SATA Cable Assembly, 28 AWG	26	1.0 (3.28)	609-3967-ND	70.21	55.59	51.69	10084749-P010006LF
	Mini-SAS/SATA Cable Assembly, 28 AWG	26	3.0 (9.84)	609-3970-ND	116.28	92.06	85.60	10084749-P030002LF
	Mini-SAS/SATA Cable Assembly, 28 AWG	26	3.0 (9.84)	609-3966-ND	111.76	90.44	83.98	10084749-P030003LF
	Mini-SAS/SATA Cable Assembly, 28 AWG	26	3.0 (9.84)	609-3968-ND	111.76	90.44	83.98	10084749-P030006LF
2	Mini-SAS/SATA R/A Receptacle Conn., SMT	26	—	609-3962-1-ND†	4.38	2.82	2.51	10098870-1102LF
	Mini-SAS/SATA R/A Receptacle Conn., SMT	26	—	609-3962-2-ND‡	8372.86/3,850			10098870-1102LF
3	Mini-SAS/SATA Screw-Lock Cage Conn. 1x1	—	—	609-3963-ND	6.10	4.07	3.83	10098871-1102LF
4	Mini-SAS/SATA Screw-Lock Cage Conn. 1x2	—	—	609-3964-ND	7.44	5.15	4.56	10098872-1102LF

† Cut Tape ‡ Tape and Reel

NEW! SFP+ Connectors, Cages, and Copper Cable Assemblies

FCI's SFP+ connector, cage and cable assembly I/O system offerings are designed to meet data center, networking and high performance computing application needs for a high density cabling interconnect system capable of 10Gb/s per channel transmission rates. This interconnect system is designed to meet the requirements of Small Form Factor industry standards SFF-8431 and 8461. FCI offers both passive and actively equalized cable assemblies each tailored to meet specific cable lengths while meeting all performance requirements. Multiple cage configurations are offered to allow customers the ability to maximize useable linear board real estate. The pick-n-place compatible 20 position SMT terminated connector meets all interface and standard requirements. The SFP+ I/O system supports the bandwidth transmission requirements as defined by 10Gigabit-Ethernet (10G Base-CU), 8G Fibre Channel (FC) and 10G Fibre Channel over Ethernet (FCoE) specifications.

Dimensions in mm

Fig. 1

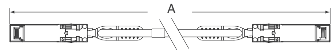

Fig. 2

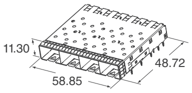

Fig. 3

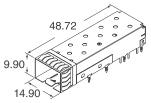

Fig. 4

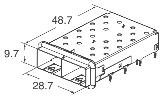

Fig. 5

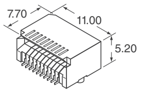

Fig.	Description	No. of Pos.	Dimension A Meters (Feet)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	SFP+ Cable Assembly, 32AWG	20	1.0 (3.28)	609-3976-ND	56.21	44.06	41.02	10110818-1010LF
	SFP+ Cable Assembly, 32AWG	20	0.5 (1.64)	609-3975-ND	54.16	42.45	39.53	10110818-1005LF
	SFP+ Cable Assembly, 32AWG	20	3.0 (9.84)	609-3977-ND	63.26	50.08	47.45	10110818-2030LF
	SFP+ Cable Assembly, 32AWG	20	5.0 (16.4)	609-3978-ND	59.25	46.44	43.24	10110818-3050LF
	SFP+ Cable Assembly, 32AWG	20	10 (32.8)	609-3979-ND	433.27	368.14	353.98	10110819-3100LF
2	SFP+ Press-Fit Cage Connector, 1x4	—	—	609-3974-ND	8.56	6.07	5.35	10099102-011LF
3	SFP+ Press-Fit Cage Connector, 1x1	—	—	609-3972-ND	3.88	2.41	2.18	10099100-011LF
4	SFP+ Press-Fit Cage Connector, 1x2	20	—	609-3971-1-ND†	2.67	1.59	1.42	10099099-111LF
	SFP+ Press-Fit Cage Connector, 1x2	20	—	609-3971-2-ND‡	601.70/500			10099099-111LF
5	SFP+ R/A Receptacle Connector, SMT	—	—	609-3973-ND	15.69	11.41	10.34	10099101-011LF

† Cut Tape ‡ Tape and Reel

NEW! QSFP+ Copper Cable Assemblies

Dimensions in mm

FCI's QSFP+ (Quad Small Form-factor Pluggable) connector, cage and cable assemblies are designed to meet emerging data center and high performance computing application needs for a high density cabling interconnect system capable of delivering an aggregate data bandwidth of 40Gb/s. This interconnect system is fully compliant with existing industry standard specifications such as the QSFP, MSA and IBTA (InfiniBand Trade Association). The QSFP cables support the bandwidth transmission requirements as defined by IEEE 802.3ba (40 Gb/s) and Infiniband QDR (4x10 Gb/s per channel) specifications.

Fig. 1

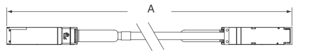

Fig. 2

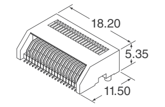

Fig. 3

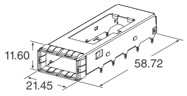

Fig. 4

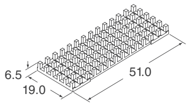

Fig. 5

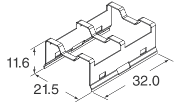

Fig.	Description	No. of Pos.	Dimension A Meters (Feet)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	QSFP+ Cable Assembly 32AWG	38	0.5 (1.64)	609-3985-ND	91.77	73.42	69.48	10093084-1005LF
	QSFP+ Cable Assembly 32AWG	38	1.0 (3.28)	609-3986-ND	103.68	83.91	77.92	10093084-1010LF
	QSFP+ Cable Assembly 30AWG	38	3.0 (9.84)	609-3987-ND	145.24	119.61	108.93	10093084-2030LF
	QSFP+ Cable Assembly 28AWG	38	5.0 (16.4)	609-3988-ND	187.09	154.96	143.48	10093084-3050LF
2	QSFP+ R/A Receptacle Connector, SMT	38	—	609-3981-1-ND†	4.74	2.97	2.71	10099113-101LF
	QSFP+ R/A Receptacle Connector, SMT	38	—	609-3981-2-ND‡	5761.52/2,400			10099113-101LF
3	QSFP+ Press-Fit Cage Connector 1x1	—	—	609-3982-ND	4.31	2.68	2.43	10099114-001LF
4	QSFP+ Heat Sink Connector	—	—	609-3983-ND	2.32	1.34	1.19	10099115-002LF
5	QSFP+ Heat Sink Clip	—	—	609-3984-ND	9.27	6.38	5.80	10099116-001LF

† Cut Tape ‡ Tape and Reel

Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

Small Form-Factor Pluggable (SFP/SFP+) System

SFP Series: **Description:** The SFP design supports hot swap of various types of fiber optic and copper based transceivers into host equipment. This allows the OEM the flexibility to interchange between different protocols such as 1000BASE-SX, 1000BASE-CX or 1000BASE-LX. **Application:** • Fiber Channel • Fast/Gigabit Ethernet • ATM/SONET/SDH • INFINIBAND (IB) • FDDI **Features:** • Hot Swappable • Three stage sequencing - GND, VDD, Signal • Connector supports data rates beyond 5 Gbps • IEEE 802.3Z (Gigabit Ethernet), INCITS T11 (FC) • Chassis grounds for pass through EMI protection to 12.5 Gbps • Copper and Fiber Optic Transceiver

SFP+ Series: **Description:** SFP+ extends the use of the Small Form-Factor Pluggable (SFP) interconnect up to 10Gb/s. This system meets the performance requirements of SFF (Small Form-Factor) specification SFF-8431 and supports 8G Fibre Channel and 10G Ethernet applications. **Applications** • Storage • Servers • Networking • Switches • Routers • Hubs • Network Interface Cards (NICs) **Features:** • Both EMI spring and gasket options for cages provide excellent shielding • All cage configurations are offered with lightpipes for LED applications • Heatsink optional for single port cages • Cages are available for PCI card applications (one degree mounting angle) • Cages accommodate belly-to-belly mounting

Fig. 1

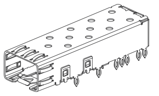

Single (Press-Fit) Shown

Fig. 2

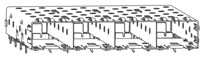

1 x 4 (Press-Fit) Shown

Fig. 3

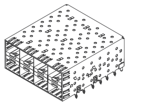

2 x 4 (Press-Fit) Shown

Fig. 4

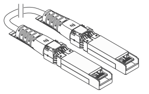

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
	SFP Series					
—	Connector SMT 15Au	A97430CT-ND†	2.89	2.62	1.86	1367073-1
	Connector SMT 15Au	A97430TR-ND▲		784.80/480		1367073-1
	Connector SMT 30Au	A97431CT-ND†	4.19	3.80	2.69	1367073-2
	Connector SMT 30Au	A97431TR-ND▲		1137.60/480		1367073-2
	Cage Lower PCB	A97412CT-ND†	3.98	3.60	2.55	6367034-1
	Cage Lower PCB	A97412TR-ND▲		540.00/240		6367034-1
	Cage Upper PCB	A97413-ND	3.98	3.60	2.55	6367035-1
1	Cage Single (Press-Fit)	A97414-ND	5.19	4.71	3.34	1489779-1
	Cage Single (Press-Fit)	A97415-ND	4.90	4.44	3.15	1489669-1
	Cage Single (Press-Fit)	A97416-ND§	9.14	8.28	5.87	1367629-1
2	Cage 1 x 2 (Press-Fit)	A97417-ND	9.67	8.76	6.21	1761014-1
	Cage 1 x 4 (Press-Fit)	A97418-ND	18.52	16.78	11.89	1658744-1
	Cage 1 x 6 (Press-Fit)	A97419-ND	21.76	19.71	13.96	1761015-1
	Cage 1 x 2 (Press-Fit)	A97420-ND§	22.53	20.40	14.45	1761007-1
	Cage 1 x 4 (Press-Fit)	A97421-ND§	34.29	31.06	22.00	1761008-1
	Cage 1 x 6 (Press-Fit)	A97422-ND§	45.37	41.09	29.11	1658939-1
	Cage 1 x 4 (Solder)	A99375-ND	18.52	16.78	11.89	1658723-1
3	Cage 2 x 1 (Press-Fit)	A97423-ND	15.58	14.12	10.00	1658391-1
	Cage 2 x 4 (Press-Fit)	A97424-ND	50.40	45.65	32.34	1658390-1
	Cage 2 x 1 (Press-Fit)	A97426-ND§	15.58	14.12	10.00	1658628-1
	Cage 2 x 4 (Press-Fit)	A97427-ND§	50.38	45.63	32.32	1658629-1
—	Dust Cover SFP, 10mm	A97432-ND	1.05	.95	.76	1367147-1
	Dust Cover SFP, 14mm	A99376-ND	.80	.72	.51	1761394-1
	SFP+ Series					
—	Connector SMT 15Au	A97944CT-ND†	2.99	2.72	1.93	1888247-2
—	Connector SMT 15Au	A97944TR-ND▲		813.60/480		1888247-2
	Connector SMT 30Au	A97943CT-ND†	4.48	4.06	2.88	1888247-1
	Connector SMT 30Au	A97943TR-ND▲		1216.80/480		1888247-1
1	Cage Single (Wave Solder)	A97932-ND	5.57	5.04	3.57	2007194-1
	Cage Single (Press-Fit)	A97933-ND	5.57	5.04	3.57	2007215-1
	Cage Single (Press-Fit)	A97934-ND	5.57	5.04	3.57	2007198-1
	Cage Single (Press-Fit)	A97935-ND§	8.72	7.90	5.60	2007254-1
	Cage Single (Wave Solder)	A97936-ND‡	26.77	24.24	17.17	2007193-1
2	Cage 1 x 2 (Press-Fit), Gasket	A97926-ND	17.07	15.46	10.95	2007181-1
	Cage 1 x 4 (Press-Fit), Gasket	A97928-ND	18.76	17.00	12.04	2007135-1
	Cage 1 x 6 (Press-Fit), Gasket	A97930-ND	31.14	28.20	19.98	2007170-1
	Cage 1 x 2 (Press-Fit), Spring	A97937-ND	7.84	7.11	5.04	2007263-1
	Cage 1 x 4 (Press-Fit), Spring	A97939-ND	14.02	12.70	9.00	2007132-1
	Cage 1 x 6 (Press-Fit), Spring	A97941-ND	21.04	19.06	13.50	2007251-1
	Cage 1 x 2 (Press-Fit), Gasket	A97927-ND§	20.99	19.01	13.47	2007180-1
	Cage 1 x 4 (Press-Fit), Gasket	A97929-ND§	24.67	22.35	15.83	2007093-1
	Cage 1 x 6 (Press-Fit), Gasket	A97931-ND§	41.58	37.66	26.68	2007169-1
	Cage 1 x 2 (Press-Fit), Spring	A97938-ND§	12.72	11.52	8.16	2007262-1
	Cage 1 x 4 (Press-Fit), Spring	A97940-ND§	22.74	20.60	14.59	2007178-1
	Cage 1 x 6 (Press-Fit), Spring	A97942-ND§	34.11	30.89	21.88	2007250-1
4	Cable Assembly, 0.5M	A99690-ND	59.26	51.86	41.49	2032237-1
	Cable Assembly, 3M	A99692-ND	70.84	61.99	49.59	2032237-4
	Cable Assembly, 5M	A99693-ND	80.12	70.11	56.09	2032237-6
	Cable Assembly, 7M	A99694-ND	94.46	82.66	66.13	2032237-8

§ With Lightpipes ‡ With PCI Heatsink † Cut Tape ▲ Tape and Reel

NEW! CFP Connectors and Heat Sink

The CFP compliant connector is a new ultra high speed pluggable I/O interface supporting 40 and 100 Gb/s ethernet applications. The integrated system provides the mechanical, EMI and thermal performance necessary to meet the demanding requirements of the CFP Multi Source Agreement (MSA) Optical Transceivers and OEM host line cards. **Applications:** • Switches and routers for telecom and data center applications • Optical transport equipment for long haul, metro, and multiservice provisioning platform applications

Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
Connector Assembly Module, 100 Gig Pluggable	A100186-ND§	30.77	27.87	19.74	2057629-1
Guide Rail, 100 Gig Pluggable	A100187-ND	6.41	5.81	4.12	2057592-2
Cover Assembly, Host Connector, 100 Gig	A100188-ND	38.72	35.07	24.84	2057631-1
Backer Plate Assembly, 100 Gig Pluggable	A100189-ND	8.14	7.37	5.22	2057930-1
External Bracket Assembly Module, Pluggable	A100190-ND	30.26	27.41	19.42	2057626-1
Receptacle Assembly Host, Pluggable	A100191CT-ND†	40.55	36.72	—	2057630-1
Receptacle Assembly Host, Pluggable	A100191TR-ND‡		3901.50/150		2057630-1
Heat Sink, 100 Gig Pluggable	A100339-ND§	59.62	52.61	45.60	1963856-1

† Cut Tape ‡ Tape and Reel § For more information, please see Digi-Key web site.

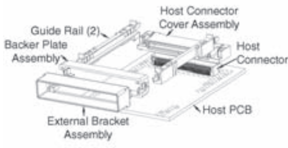

XFP Connectors and Heat Sinks

Features: • Provides a range of options for EMI Containment and Thermal Dissipation that are controlled by customer requirements • Accommodates a wide range of applications (PCI Card to 16 ports on a Line Card) • Provides a robust system, similar to SFP, that will be accepted by the industry

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
1	Connector, 30 Position, 15AU	A97460CT-ND†	6.07	5.50	3.90	788862-1
	Connector, 30 Position, 15AU	A97460TR-ND‡		1648.80/480		788862-1
	Connector, 30 Position, 30AU	A97464CT-ND†	7.84	7.11	5.04	788862-2
	Connector, 30 Position, 30AU	A97464TR-ND‡		2131.20/480		788862-2
	Connector, 30 Position, 30AU	A97465CT-ND†§	8.40	7.61	5.39	1367500-1
	Connector, 30 Position, 30AU	A97465TR-ND‡§		2282.40/480		1367500-1
2	Cage Assembly (Press-Fit)	A97461-ND	19.77	17.91	12.69	1489951-1
—	Heat Sink for SAN applications	A97463-ND	12.69	11.50	8.15	1542618-2
	Heat Sink for PCI applications	A97466-ND	11.29	10.23	7.25	1542656-2
	Heat Sink for Network applications	A97467-ND	11.29	10.23	7.25	1542706-2
	Heat Sink Clip	A97462-ND	1.96	1.78	1.26	1489948-2
	Dust Cap for XFP and QSFP	A97542-ND	4.05	3.68	2.61	1888810-2
	XFP Kit: Heat Sink, Heat Sink Clip and Cage	A99377-ND	39.06	35.38	25.06	1888481-1
	Cable Assembly XFP Male to Male, 170mm	A99928-ND	190.00	166.25	133.00	1902480-1

† Cut Tape ‡ Tape and Reel § High Speed

Dimensions in mm

Fig. 1 —
PT Connector

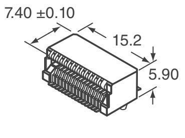

Fig. 2 —
Cage Assembly

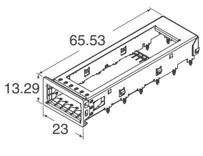

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

Quad Small Form-Factor Pluggable (QSFP) Products

Tyco Electronics is a leading developer of Quad Small Form-Factor Pluggable, a new high speed pluggable I/O interface. This interconnect system offers 4 channels, providing 3 times the density of SFP/SFP+ ports. QSFP cages and connectors are designed for data rates up to 10Gb/s, supporting Fibre Channel, Ethernet, SDH/SONET and INFINIBAND standards. The cage/connector system will accept optical or copper interfaces.

Features:

- 4x solution featuring Tyco Electronics' 38 position EVERCLEAR connector
- Through-bezel and behind-bezel cage options with proven EMI containment

Fig. 1

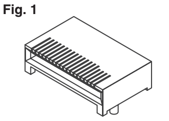

Fig. 2

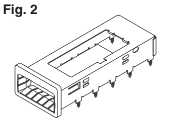

Fig. 3

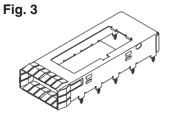

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
1	Connector Receptacle, 38 Position, 30AU, SMT	A98559CT-ND†	5.06	4.59	3.25	1761987-9
	Connector Receptacle, 38 Position, 30AU, SMT	A98559TR-ND‡		1146.00/400		1761987-9
2	Behind-Bezel Cage (Press-fit)	A98561-ND	13.59	12.32	8.73	1888781-1
	Behind-Bezel Cage + PCI Heat Sink Assembly (Press-Fit)	A98564-ND	25.39	23.00	16.29	1888968-1
	Behind-Bezel Cage + SAN Heat Sink Assembly (Press-Fit)	A98565-ND	25.39	23.00	16.29	1888968-2
3	Through-Bezel Cage (Press-fit)	A98560-ND	14.95	13.54	9.59	1888617-1
	Through-Bezel Cage + PCI Heat Sink Assembly (Press-Fit)	A98562-ND	26.84	24.32	17.23	1888631-1
	Through-Bezel Cage + SAN Heat Sink Assembly (Press-Fit)	A98563-ND	26.84	24.32	17.23	1888631-2

† Cut Tape ‡ Tape and Reel

EVERCLEAR Mini Multi-Lane High Speed

Tyco Electronics' EVERCLEAR product family is the next generation high speed multi-lane interconnect for both internal and external solutions. The system is designed to be compliant to SFF-8086, 8087 and 8088 standards.

Features: • High Speed I/O • Multiple Channels Interconnects • Switches for Fibre Channel and INFINIBAND Standards • Internal and External Mini-SAS and SATA • 26 and 36 position receptacles • Keying options available • Tested at data rates beyond 10Gb/s • High density 0.8mm contact spacing • SMT PCB attachment for high speed signaling

Fig. 1

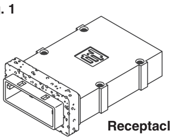

Receptacle Shown with Shield

Fig. 2

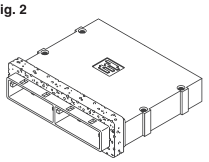

Fig. 3

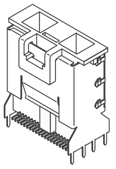

Vertical Receptacle Shown

Fig.	Description	Number of Ports	Key Type	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Tyco Electronics Part No.
	External Mini-SAS, SATA										
1	Connector Receptacle, Right Angle, 26 Position	1	—	A98566CT-ND†	4.00	3.63	2.57	A98566TR-ND	400	906.00	1761987-7
	Shield Receptacle, Right Angle, 26 Position	1	4	A98567-ND	7.16	6.48	4.59	—	—	—	1888321-1
2	Shield Receptacle, Right Angle, 26 Position	2	4	A98568-ND	12.48	11.31	8.01	—	—	—	1888321-2
	Internal Mini-SAS, SATA										
3	SMT Receptacle, Right Angle, 36 Position	1	2	A98569CT-ND†	6.57	5.96	4.22	A98569TR-ND	125	465.00	1888019-6
	SMT Receptacle, Right Angle, 36 Position	1	Universal	A98571CT-ND†	6.57	5.96	4.22	—	—	—	1888861-6
	SMT Receptacle, Vertical, 36 Position	1	2	A98570-ND	6.57	5.96	4.22	—	—	—	1888174-4
	SMT Receptacle, Vertical, 36 Position	1	Universal	A98572-ND	6.57	5.96	4.22	—	—	—	1888863-4

† Cut Tape

C&K

NEW! Smart Card Interconnect Devices

Fig. 1 — CCM01

MK II: EMV™ Compatible. MK II connectors with fixed contacts have been developed for applications where a landing contact mechanism is not required but performance and reliability are still key considerations.

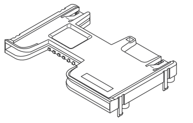

Fig. 2 — CCM02

MK II: EMV Compatible. MK II connectors with landing contacts are dedicated for applications where the reader usage is high and the span of the card is a key consideration. It has been redesigned to give an even higher performance in a compact, affordable package. Features: 500,000 card insertion cycles.

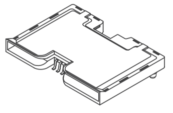

Fig. 3 — CCM03

MK II: Developed to interface with SIM/SAM cards as defined by GSM11-11 and ENV1375-1. Available with either hinged covers or fixed covers and have been designed to minimize the amount of space needed for PCB mounting. The high temperature thermoplastic moldings are suited for infrared and convection soldering processes.

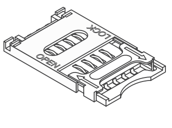

Fig. 4 — CCM03

MK III: Smallest solution for SIM/SAM cards with low profile sealed switch. This connector provides a competitive advantage to smart card reader device manufacturers by minimizing the space usage on the PCB, and features a side entry to offer convenient card access without opening the device, and meets GSM11-11 specifications.

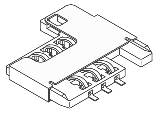

Fig. 5 — CCM04

For applications that require a switch and do not want to struggle with correct sequencing and PCB saving is still a must. The contact area is spooned to reduce the risk of accidental (or deliberate) damage to optimize the electrical connection with the card.

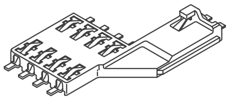

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Components Part No.
1	MK II, 8 Contact SMT with Two Pegs	CKN10278-ND†	4.41	3.53	2.80	—	—	—	CCM01-2013AP LFT T30
	MK II, 8 Contact SMT with Two Pegs	CKN10239-ND†	4.38	3.51	2.78	—	—	—	CCM01-2013LFT T30
	MK II, 8 Contact SMT with Four Pegs	CKN10240-ND†	5.35	4.28	3.39	—	—	—	CCM01-2027LFT T30
2	MK II, 8 Contact with Four Pegs	CKN10237-ND†	8.40	6.73	5.33	—	—	—	CCM02-2504LFT T30
	MK II, 8 Contact PCB with Four Pegs	CKN10241-ND†	8.40	6.73	5.33	—	—	—	CCM02-2503LFT T30
	MK II, 8 Contact SMT with Two Pegs	401-1711-ND†	8.40	6.73	5.33	—	—	—	CCM02-2508LFT T30
3	MK II, 6 Contact Hinged Cover	401-1718-1-ND	1.41	1.31	1.20	401-1718-2-ND	1,000	783.00	CCM03-3001LFT R102
	MK II, 8 Contact Hinged Cover with Locating Pegs	401-1719-1-ND	1.41	1.31	1.20	401-1719-2-ND	1,000	783.00	CCM03-3004LFT R102
	MK II, 6 Contact Hinged Cover , Gold Contacts	401-1720-1-ND	1.41	1.31	1.20	401-1720-2-ND	1,000	783.00	CCM03-3009LFT R102
	MK II, 6 Contact Hinged Cover, Gold Contacts	401-1722-1-ND	2.10	1.94	1.78	401-1722-2-ND	1,000	1161.00	CCM03-3013LFT R102
	MK II, 8 Contact Fixed Cover	401-1723-1-ND	1.62	1.50	1.37	401-1723-2-ND	1,200	896.40/M	CCM03-3504LFT R122
	MK II, 6 Contact Front Hinged Auto Lock with Card Switch	401-1725-1-ND	2.07	1.92	1.76	401-1725-2-ND	1,300	1148.40/M	CCM03-3518LFT R132
	MK II 6, Contact Hinged Cover with Locating Pegs	CKN10238CT-ND	1.41	1.31	1.20	CKN10238TR-ND	1,000	783.00	CCM03-3002LFT R102
	MK II, 8 Contact Hinged Cover	CKN10242CT-ND	1.41	1.31	1.20	CKN10242TR-ND	1,000	783.00	CCM03-3003LFT R102
4	MK III, 6 Contact SIM/SAM Connector with Card Switch	401-1726-1-ND	2.55	2.36	2.17	401-1726-2-ND	1,000	1414.80	CCM03-3754LFT R102
5	MK III, Low Profile 8 pin, SMT	CKN10279CT-ND	3.19	2.94	2.70	CKN10279TR-ND	4,500	1470.00/M	CCM04-5202LFT R901A

† Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MicroSD™ Card Connectors

Features:
• Employs push-push structure for minimized mounting space • With half lock structure to prevent falling out of card

Specifications:
• Rated Current: 0.5A maximum • Rated Voltage: 10V • Dielectric Withstanding Voltage: 500VAC r.m.s for 1 minute • Insulation Resistance: 1000MΩ minimum • Contact Resistance: 100mΩ maximum • Operating Temperature Range: -25°C ~ 85C° • Storage Temperature: -10°C ~ 60C° • Temperature Rise: 30°C rise maximum

Materials and Finishes:
• Contact: Copper Alloy; Contact: Gold plating over Nickel • Terminal: Gold flash plating over Nickel

Fig. 1

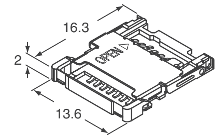

Fig. 2

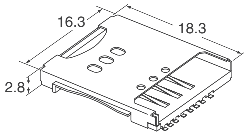

Fig. 3 ***NEW!***

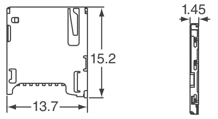

Fig. 4 ***NEW!***

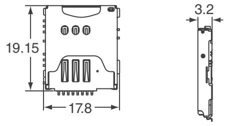

Fig. 5 ***NEW!***

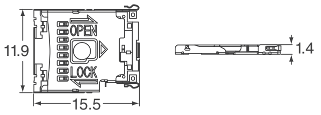

Fig. 6 ***NEW!***

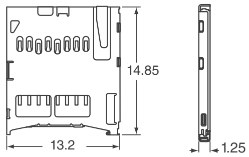

Fig.	Number of Position	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1	8	Hinge Type, SMT, MicroSD Card Connector	670-1528-1-ND	2.01	1.25	1.14	670-1528-2-ND	1,500	972.27/M	ST1W008S4AR1500
2	8	Hinge Type, SMT, MicroSD Connector	670-2345-1-ND ***NEW!***	2.34	1.42	1.21	670-2345-2-ND ***NEW!***	1,500	992.38/M	ST1W008S4BR1500
	8	Hinge Type, SMT, MicroSD Connector	670-2346-1-ND ***NEW!***	2.31	1.40	1.19	670-2346-2-ND ***NEW!***	1,500	980.00/M	ST1W008S4DR1500
	14	MicroSD and SIM Card Combo Connector	670-1522-1-ND	4.48	2.94	2.61	670-1522-2-ND	800	1888.98	ST5S014V4AR800
3	8	One-Piece Type, External MicroSD Connector	670-2349-1-ND ***NEW!***	2.68	1.83	1.61	670-2349-2-ND ***NEW!***	1,500	1394.85/M	ST9S008V4AR1500
4	14	MicroSD and SIM Card Combo Connector	670-2389-1-ND ***NEW!***	5.01	3.28	2.92	670-2389-2-ND ***NEW!***	800	2111.43	ST7S014V4BR800
5	8	Hinge Type, Low Profile, MicroSD Connector	670-2435-1-ND ***NEW!***	6.07	4.13	3.89	670-2435-2-ND ***NEW!***	300	1055.75	ST1W008S4GR300
6	8	One-Piece Type, External MicroSD Connector	670-2470-1-ND ***NEW!***	6.71	4.57	4.03	670-2470-2-ND ***NEW!***	1,800	3487.90/M	ST10S008V4AR1800

Plug In SIM Card Connectors

Specifications:

• 6 Positions • Contact Resistance: 100mΩ maximum • Dielectric Withstanding Voltage: 500VAC r.m.s. for 1 minute • Operating Temperature: -40°C ~ 90°C • Rated Current: 10μA ~ 1A • Insulation Resistance: 1000MΩ minimum

Materials and Finishes:

SF7 Series:
• Contact: Copper Alloy; Contact: Gold plating over Nickel; Terminal: Gold flash over Nickel • Housing: Glass filled LCP • Cover: Glass filled LCP

SF9 Series:
• Contact: Copper Alloy/ 0.5μ minimum Gold over Nickel • Housing: Glass filled LCP/None (UL94V-0) • Cover Frame: Stainless Steel/ Gold over Nickel (Terminal portion only) • Tray: PC/None (UL94V-0)

Fig. 1

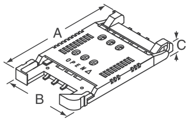

Fig. 2

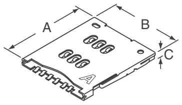

Fig. 3

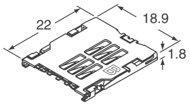

Fig. 4

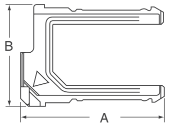

Fig. 5

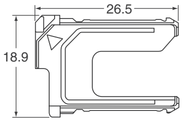

Fig.	Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1	Hinge Type with Positioning Boss	30	17.2	2.3	670-1524-1-ND	3.40	2.10	1.93	670-1524-2-ND	1,000	1588.09	SF7W006S1AE1000
	Hinge Type without Positioning Boss	30	17.2	2.3	670-1525-1-ND	2.61	1.61	1.48	670-1525-2-ND	1,000	1215.79	SF7W006S1BE1000
	Hinge Type with Card Detection Switch	30	17.2	2.5	670-2337-1-ND ***NEW!***	3.22	1.99	1.72	670-2337-2-ND ***NEW!***	900	1374.84	SF7W008S1AE900
	Hinge Type without Positioning Boss	29.6	17.55	1.9	670-2336-ND ***NEW!***	1.69	1.03	.88	—	—	—	SF7W006S4ER1500
2	Tray Type Standard	19.3	16.65	1.55	670-2437-1-ND ***NEW!***	6.06	4.13	3.88	670-2437-2-ND ***NEW!***	200	727.20	SF8V006S4AR200
	Tray Type Standard	22	18.9	1.8	670-1519-1-ND	2.30	1.42	1.31	670-1519-2-ND	1,200	1072.85/M	SF9W006S4AR1200
3	Tray Type Reverse	—	—	—	670-1520-1-ND	2.30	1.42	1.31	670-1520-2-ND	1,200	1072.85/M	SF9W006S4BR1200
4	Slide Tray for SF8V006S4AR200	26.3	16.65	—	670-2438-ND ***NEW!***	1.54	.88	.77	—	—	—	SF8-STS1-A
	Slide Tray for SF9W006S4AR1200	26.5	18.9	—	670-1518-ND	.81	.43	.36	—	—	—	SF9-STS1-A
5	Slide Tray for SF9W006S4BR1200	—	—	—	670-1517-ND	.81	.43	.36	—	—	—	SF9-STR1-B

Technology to Inspire Innovation
JAE

NEW! Compact Flash

Features: • Slot mechanism compliant with CFA (Compact Flash Association) Type I/II Card **Specifications:** • Number of Contacts: 50 • Current Rating: 0.5A per pin • Dielectric Withstanding Voltage: 500VACr.m.s. (for one minute) • Insulation Resistance: 1000MΩ min. • Contact Resistance: 40mΩ max. • Operating Temperature: -20°C ~ 60°C • Lifetime: 10,000 Cycles **Materials and Finishes:** • Lever: Stainless Steel • Plate: Stainless Steel • Frame: Glass filled PBT

Fig. 1

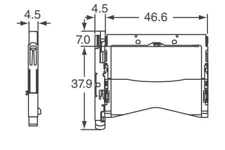

Fig. 2

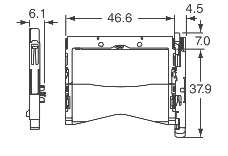

Fig. 3

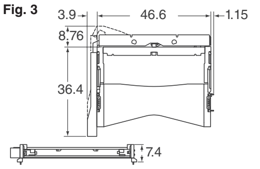

Fig. 4

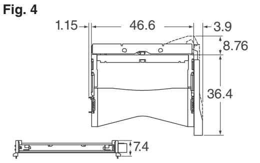

Fig. 5

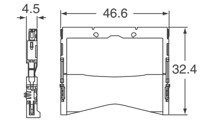

Fig. 6

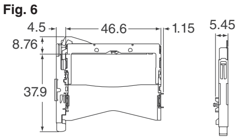

Fig. 7

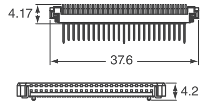

Fig. 8

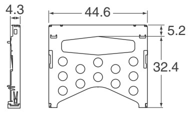

Fig. 9

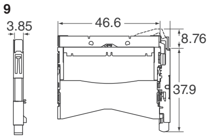

Fig. 10

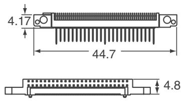

Fig.	Descriptions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
JC26C2 Series						
Fixed Type Frames						
1	Standard, Left Bendable Button, 1.6mm Stand-Off	670-1951-ND	7.63	5.19	4.58	JC26C2-FSL16E
	Standard, Left Bendable Button	670-1763-ND	7.70	5.24	4.62	JC26C2-FSLE
2	Reverse, Right Bendable Button, 1.6mm Stand-Off	670-1950-ND	8.00	5.44	4.80	JC26C2-FRR16E
	Standard, Right Bendable Button, 1.6mm Stand-Off	670-2144-ND	7.63	5.19	4.58	JC26C2-FSR16E
	Standard, Right Bendable Button	670-1764-ND	8.40	5.72	5.04	JC26C2-FSRE
3	Standard, Left Fixed Button, 1.6mm Stand-Off	670-1762-ND	4.98	2.91	2.66	JC26C2-FSH16E
4	Reverse, Right Fixed Button, 1.6mm Stand-Off	670-1949-ND	7.05	4.80	4.23	JC26C2-FRM16E
	Standard, Right Fixed Button, 1.6mm Stand-Off	670-2143-ND	7.68	5.22	4.61	JC26C2-FSM16E
	Standard, Right Fixed Button	670-1952-ND	8.40	5.72	5.04	JC26C2-FSME
5	Standard, No Button	670-2236-ND	8.64	5.33	4.61	JC26C2-FSNE
Push Type Frame						
1	Reverse, Left Bendable Button, 1.6mm Stand-Off	670-2142-ND	12.48	8.49	7.49	JC26C2-DRL16E
	Standard, Left Bendable Button	670-1760-ND	4.08	2.38	2.18	JC26C2-DSLE
2	Standard, Right Bendable Button, 1.6mm Stand-Off	670-1948-ND	11.23	7.99	7.24	JC26C2-DSR16E
	Standard, Right Bendable Button	670-1761-ND	4.08	2.38	2.18	JC26C2-DSRE
6	Reverse, Right Bendable Button, 1.6mm Stand-Off	670-2411-ND	12.48	7.99	7.49	JC26C2-DRR16E
Base Connectors						
7	Base Connector for JC26C2 Frames with 1.6mm Stand-Off	670-1947-ND	4.80	2.80	2.56	JC26A-BB16E
	Base Connector for JC26C2 Frames	670-1759-ND	4.80	2.80	2.56	JC26A-BBE
JC26E/F Series						
Fixed Type Frame						
8	Reverse, No Button	670-2145-ND	9.48	6.45	5.69	JC26F-FRN
Push Type Frame						
9	Reverse, Left Side Button	670-1954-ND	11.57	8.23	7.46	JC26E-DRLE
	Standard, Right Side Button	670-1956-ND	8.55	5.82	5.13	JC26E-DSRE
Base Connector						
10	Base Connector for JC26F Frames	670-1953-ND	3.60	2.10	1.92	JC26E-BB13E

NEW! SF3 Series Smart Card Connector

SF3 Series socket connectors are designed for ISO 7816 specified IC cards. They are ideal for use in various terminal devices such as network computers, set-top boxes, PCs, keyboards and portable telecommunications terminals.

Specifications: • Number of Contacts: 8 signal contacts, plus 2 switch contacts • Contact Spacing: 2.54mm (.100") • Current Rating: 1μA per contact • Dielectric Withstanding Voltage: 250VACr.m.s. (for one minute) • Insulation Resistance: 1,000MΩ min. • Contact Resistance: 100mΩ max. • Operating Temperature: -40°C ~ 90°C • Life Cycles: 100,000

Materials and Finishes: • Insulator: Glass-filled PPS (UL94V-0, Black) • Signal Contact: Copper Alloy, Connecting area: Gold over Palladium Nickel; SMT area: Tin-Lead • Switch Contact: Copper Alloy, Connecting area: Gold over Palladium Nickel; SMT area: Tin over Nickel Plating

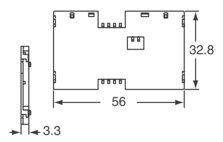

Description	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Smart Card Connector with Guide Frame	670-2055-ND	6.00	4.08	3.60	SF3W010S9AE

NEW! MM60 Series Express Card

MM60 Series is compatible with the PCI Express Mini Card Electromechanical specifications and can be used for connecting with modules with PCI Express and USB transmission

Specifications: • Number of Contacts: 52 position • Contact Resistance: 55mΩ max. (initial) • Dielectric Withstanding Voltage: 300VACr.m.s. (per minute) • Operating Temperature: -40°C ~ 80°C • Rated Current: 0.5A per pin • Lifetime: 50 times

Materials and Finishes: • Contact: Copper Alloy, Contact area: Gold Plating over Nickel; Terminal area: Gold Flash over Nickel • Insulator: Heat resistant material (UL94V-0) • Hold Down: Copper Alloy, Tin plating

Fig. 1 — Connector

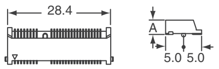

Fig. 2 — Latch

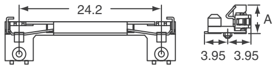

Fig.	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
Connector									
1	3.9	670-2274-1-ND	2.66	1.61	1.37	670-2274-2-ND	850	991.72	MM60-52B1-B1-R850
	5.9	670-2275-1-ND	2.40	1.46	1.24	670-2275-2-ND	650	686.14	MM60-52B1-E1-R650
Latch									
2	4.8	670-2276-1-ND	1.46	.91	.73	670-2276-2-ND	850	473.38	MM60-EZH039-B5-R850
	6.8	670-2277-1-ND	1.53	.96	.77	670-2277-2-ND	650	386.02	MM60-EZH059-B5-R650

NEW! MM70 Series Express Card

Features: • Compatible with MXM3.0 standard • Contact Size (Available in two types): 6.7mm height, 12.20mm depth and 89.9mm width (3.0mm board height); 4.3mm height, 12.75mm depth and 89.9 mm width (1.5mm board height) • Precision positioning stopper for MXM3.0 module prevents contact failure

Specifications: • Number of Contacts: 314 position • Contact Resistance: 55mΩ max. (initial), 80mΩ max. (after test) • Dielectric Withstanding Voltage: 250VACr.m.s. (per minute) • Rated Current: 0.5A per pin • Insulation Resistance: 50MΩ min. (after test) • Durability: 30 times • Operating Temperature: -40°C ~ 80°C

Materials and Finishes: • Insulator: Heat Resistant Plastic • Contact: Copper Alloy, Contact Area: 0.1μm min. Gold plating over Nickel • Hold Down: Copper Alloy, Tin plating over Nickel • Stopper: Copper Alloy, Tin plating over Nickel

Fig. 1

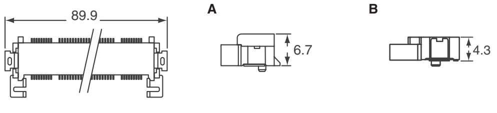

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1A	3mm Board Height Type	670-2431-1-ND	8.14	5.54	4.89	670-2431-2-ND	300	1368.02	MM70-314-310B1-1-R300
1B	1.5mm Board Height Type	670-2432-1-ND	8.00	5.44	4.80	670-2432-2-ND	500	2239.80	MM70-314-310B2-2-R500

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EyeMax® - InfiniBand™
4X Cable Assemblies

The EyeMax 4X cable assemblies provide high speed, serial copper links for industry-standard applications. The EyeMax link solution is designed to provide a continuous flow of serial data and eliminate data traffic congestion, which can occur among hardware devices that use a parallel bus structure. FCI's EyeMax cable assembly technology enables high-speed data transfers at >2.5Gb/s per link/channel for cable lengths up to 10 meters. In addition, the EyeMax technology offers <4% cross talk performance.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	FCI Part No.
	26 AWG				
1	Latch Style, .5M Cable	609-3183-ND	95.37	77.19	10007290-N0050CULF
	Latch Style, 1M Cable	609-3109-ND	105.62	85.48	10007290-N0100CULF
	Latch Style, 2M Cable	609-3110-ND	121.08	97.99	10007290-N0200CULF
	Latch Style, 3M Cable	609-3111-ND	140.88	116.02	10007290-N0300CULF
2	Thumbscrew Style, 2M Cable	609-3113-ND	121.90	98.66	10018960-N0200AULF
	28 AWG				
2	Thumbscrew Style, .5M Cable	609-3189-ND	99.95	80.89	10018960-P0050AULF
	Thumbscrew Style, 1M Cable	609-3190-ND	101.80	82.39	10018960-P0100AULF
	Thumbscrew Style, 2M Cable	609-3191-ND	113.03	93.09	10018960-P0200AULF
	Thumbscrew Style, 3M Cable	609-3192-ND	122.43	102.03	10018960-P0300AULF

Fig. 1

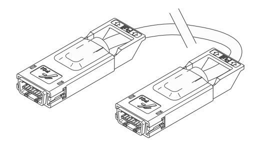

Fig. 2

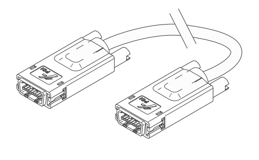

Z-Axis Pluggable Host Connectors

The host connector enables the use of gigabit-speed hot-pluggable transceiver modules for horizontal front-panel access. The connector is typically used in conjunction with an XFP cage, flange and EMI gasket assembly, along with a heat sink and attachment clip, to attach an optical LC duplex or electrical XFP transceiver module to the host board.

Features: • Card entry slot accepts 1.00mm (.039") thick integrated circuit board • Alignment posts provide stability for PCB placement • Coplanarity of solder terminals within 0.10mm (.004") for processing reliability • SMT receptacle provides option for placement on either side of PCB • Circuits: 30 • Pitch: 0.08mm (.031") • PCB Mounting: Surface Mount • UL File No.: E29179 • CSA File No.: 1310648

Electrical: • Voltage: 30V • Current: 0.5A

Physical: • Housing: Black high temperature thermoplastic, UL94V-0 • Plating: Contact Area: Gold over Nickel; Solder Area: Tin over Nickel

Dimensions in mm

Fig. 1

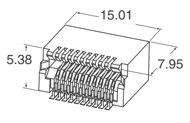

Fig. 2

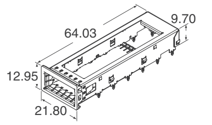

Fig.	Plating	No. of Cir-cuits	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 480	Molex Part No.
			Receptacles, Right Angle, SMT						
1	25µ" Au	30	WM1698CT-ND	5.05	4.63	4.21	WM1698TR-ND	1412.64	74441-0007
	30µ" Au	30	WM1642CT-ND	4.10	3.16	2.65	WM1642TR-ND	1181.28	74441-0017

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
	XFP Cage for Small Frame Solder-Tail Post					
2	Without Heatsink or Clip	WM1638-ND	15.62	14.70	13.33	74736-0220
	With PCI Heatsink	WM1639-ND	27.35	26.44	24.62	74736-0221
	With SAN Heatsink	WM1640-ND	18.32	17.71	16.49	74736-0222
	With TALL Heatsink	WM1641-ND	28.81	27.85	25.93	74736-0223
	NEW! Heatsinks for XFP Cage NEW!					
—	Heatsink PCI XFP Cage 4.2mm	WM2255-ND	14.09	12.53	10.40	74736-0240
	Heatsink SAN XFP Cage 6.5mm	WM2256-ND	14.09	12.53	10.40	74736-0241
	Heatsink TALL XFP Cage 13.5mm	WM2257-ND	12.52	11.59	10.40	74736-0242
	Accessories					
—	Heatsink Clip for XFP Cage	WM1699-ND	2.85	2.37	1.98	74736-0230

HSSDC2 Connectors and Assemblies

Features:

Standard High Speed Serial Data 2 connector for InfiniBand™ and Fibre Channel SFF Copper meets electrical and mechanical requirements set forth by these protocols. Positive locking interface to prevent accidental disengagement, with keying options to mating plug connector for polarization and to eliminate mismating. Six chassis ground locations, six PCB ground/retention contacts, and four plug-to-receptacle grounding points to minimize EMI /RFI.

Receptacles: • Flammability: 94V-0 • Operating Temperature Range: -10°C ~ 60°C **Electrical:** • CSA: LR19980 • Current - Maximum: .5A • UL: E29179 • Voltage - Maximum: 30VDC **Materials:** • Housing: Liquid Crystal Polymer, UL94 V-0 natural • Terminal: Copper Nickel Silicon Alloy • Shield: Brass Alloy **Finishes:** • Terminal: Select Gold and Tin over Nickel underplate overall • Shell: Tin over Nickel underplate overall **Cable Assemblies:** • Wire Size AWG: 30 **Materials:** • Housing: Zinc Alloy, Plated Bright Tin • Latch: Phosphor Bronze, Plated Bright Tin • Printed Circuit Board: FR4 • Strain Relief: Thermoplastic Black Molding Compound

Fig.	Circuits	Dim. L (Meters)	Digi-Key Part No.	Price Each 1	10	50	100	Molex Part No.
			Receptacle, Right Angle Shielded InfiniBand Keyed					
1	7	—	WM5976-ND	15.94	13.29	10.63	9.30	74703-0007
			Receptacle, Right Angle Shielded Fibre Channel Keyed					
1	7	—	WM5977-ND	15.94	13.29	10.63	9.30	74703-0107
			Copper Cable Assemblies, Plug-to-Plug, Unequalized					
2	7	1.0	WM2497-ND	33.50	32.38	30.15	29.03	73939-1002
	7	3.0	WM2498-ND	48.08	46.37	43.79	42.93	73939-1004

Dimensions in mm

Fig. 1

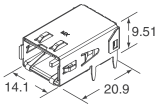

Fig. 2

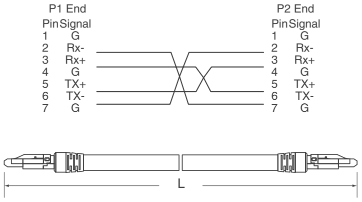

InfiniBand™

Features: • Die cast frame with unitary latch posts and screw attach to PCB. Provides the best available strain relief of cable to socket and isolating cable loads from SMT tails.
Applications: • Telecommunication Equipment • Data Communication Equipment • Internet Working Equipment • Storage Area Network (SAN) Switches • Redundant Array of Inexpensive Disks (RAID) Devices • Servers • Computers • Storage Devices

No. of Lanes	Pitch (mm)	Cable Length (Meters)	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
4	0.5	0.5	WM2067-ND	77.46	74.70	70.55	69.17	74506-3001
4	0.5	1.0	WM2068-ND	81.95	76.11	74.64	73.18	74506-3002
4	0.5	3.0	WM2069-ND	99.86	92.73	90.95	89.17	74506-3003

Dimensions in mm

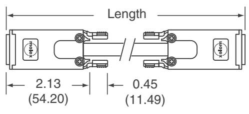

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Small Form Factor Pluggable Connectors and Frames

Digi-Reel®

Dimensions in mm

Fig. 1

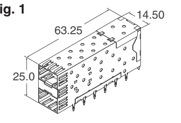

Fig. 2

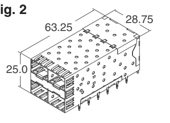

Fig. 3

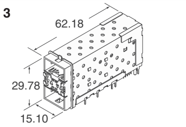

Fig. 4

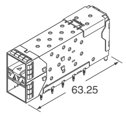

Fig. 5

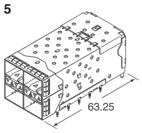

Fig. 6

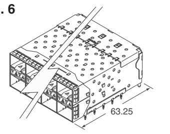

Fig. 7

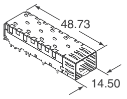

Fig. 8

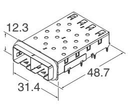

Fig. 9

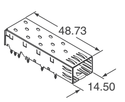

Fig. 10

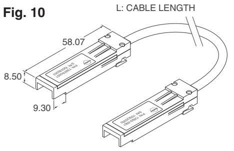

Fig. 11

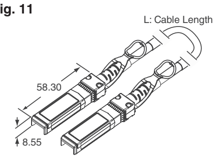

Fig. 12

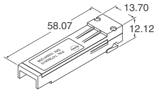

Fig. 13

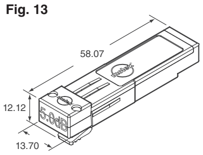

Features: The SFP system follows the function of the standard Gigabit Interface Converter (GBIC) products, with reduced size and increased data-transfer rates at and beyond two Gigabits per second (Gbps). A multi-source, industry-standard product line, our SFP products feature a common design interface for use with multiple data transfer protocols, including Fibre Channel, Gigabit Ethernet, InfiniBand and proprietary links. SFP+ takes SFP to the next level. SFP+ interconnects are designed to support applications for 8Gbps Fibre Channel and 10Gbps Gigabit Ethernet. SFP+ interconnects use the same space-per-port as standard SFP interconnects, therefore providing 11.1Gbps capability in a space that is 30% smaller than XFP.

Cage Features: • All metal construction for EMI protection • Two point spring contacts for optimal EMI grounding • Chamfered edges on cover facilitate assembly • Design allows cages to be mounted on opposite sides of PCB for "belly-to-belly" applications

SMT Receptacle: • Alignment posts provide stability for placement on the PCB • Standoffs allow easy PCB cleaning after soldering • SMT design provides option for placement on both sides of PCB

Fig.	Circuits	Dim. L (M)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	T & R Pricing‡ 480	Molex Part No.
Cage Assembly with Connector								
1	40	—	WM1643-ND	12.72	11.31	9.90	—	75462-0001
2	80	—	WM1644-ND	25.12	22.34	19.54	—	75759-0001
Small Form-Factor Pluggable (SFP) Cage with Lightpipes								
3	40	—	WM1695-ND◆	29.68	27.21	22.26	—	75310-0001
4	40	—	WM2149-ND§	17.52	15.58	13.63	—	76044-0001
	40	—	WM2173-ND◆§	25.61	23.48	19.21	—	76090-5001
	40	—	WM2180-ND§	25.61	23.48	19.21	—	76090-0001
	40	—	WM2080-ND	18.87	17.30	14.16	—	75640-0001
5	80	—	WM2150-ND§	35.08	31.18	27.29	—	76045-0001
	80	—	WM2174-ND◆§	51.22	46.96	38.42	—	76091-5001
6	160	—	WM2151-ND§	70.12	62.33	54.54	—	76046-0001
	160	—	WM2175-ND◆§	102.40	93.87	76.80	—	76092-5001
—	200	—	WM2176-ND◆§	128.01	117.34	96.01	—	76093-5001
	200	—	WM2178-ND§	128.01	117.34	96.01	—	76093-0001
	240	—	WM2177-ND◆§	153.62	140.82	115.22	—	76094-5001
	240	—	WM2179-ND§	153.62	140.82	115.22	—	76094-0001
Small Form-Factor Pluggable (SFP) Cage — RoHS Compliant								
7	—	—	WM1634-ND	5.61	4.65	3.49	—	73927-0002-TR24
	—	—	WM2024-ND	5.61	4.65	3.49	—	73927-0009
	—	—	WM2081-ND	9.08	7.68	5.94	—	73927-0020
—	—	—	WM2082-ND	8.78	8.02	6.11	—	73927-0040
8	—	—	WM1646-ND	7.75	6.57	5.07	—	74722-0001
	—	—	WM1647-ND	13.55	12.76	11.16	—	74747-0001
	—	—	WM24031-ND	10.51	9.73	8.15	—	74728-0415
9	—	—	WM1697-ND	3.48	2.89	2.17	—	74737-0002
	—	—	WM1694-ND	3.48	2.89	2.17	—	74737-0004
	—	—	WM1648-ND	3.48	2.89	2.17	—	74737-0009
	—	—	WM1663-ND	3.48	2.89	2.17	—	74737-0010
	—	—	WM1668-ND	3.48	2.89	2.17	—	74737-0005
	—	—	WM1669-ND	3.48	2.89	2.17	—	74737-0016

Fig.	Circuits	Dim. L (M)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	T & R Pricing‡ 480	Molex Part No.
Cable Assemblies — RoHS Compliant								
10	20	1.0	WM1660-ND	43.71	42.15	39.03	—	73929-0001
	20	5.0	WM2083-ND	82.17	79.24	73.37	—	73929-0003
	Male to Male	1.0	WM1666-ND	43.71	42.15	39.03	—	74742-0001
		3.0	WM1667-ND	62.94	60.70	56.20	—	74742-0003
11	20	1.0	WM2152-ND§	36.11	34.82	32.25	—	74752-1101
	20	3.0	WM2153-ND§	46.04	44.40	41.11	—	74752-1301
	20	5.0	WM2154-ND§	62.76	60.52	56.04	—	74752-4501
Adapters								
12	—	—	WM1662-ND◆	14.78	13.68	11.46	—	74720-0510
	—	—	WM1665-ND	129.01	124.40	115.19	—	74741-0005
13	—	—	WM2148-ND◆	30.99	29.97	26.87	—	74720-0501
	—	—	WM2155-ND◆§	84.68	75.28	65.87	—	74765-0906
Host Connectors for SFP Cages — RoHS Compliant								
—	20 pos., 25µ" Gold	—	WM1633CT-ND†	2.72	2.31	1.79	685.92	74441-0001
—	20 pos., 30µ" Gold	—	WM1696CT-ND†	4.47	3.63	2.80	937.92	74441-0010

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. § SFP+

Gigabit Interface Converter (GBIC)

RoHS COMPLIANT

Dimensions in mm

Features:
- Rugged blind-mate guide ears with +/-2.00mm (0.079") mismating tolerance • Shielded for improved EMI protection with ESD ground contacts • Staggered "hot-plug" first-mate, last-break contacts on 1.27mm (.050") pitch spacing

Electrical:
- Voltage: 30V • Current: 1.0A • Contact Resistance: 20mΩ • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ

GBIC Guide Frame:
- All metal construction • Plated die cast body • EMI gasket provides 360 degrees of contact to the chassis • Compatible with the industry standard footprint

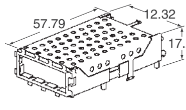

Guide Frame

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Molex Part No.
Guide Frame for GBIC	WM1631-ND	15.64	14.31	13.35	73847-0001-TR12

Ultra+™ VHDCI Connectors and Assemblies

High Density Cable Interconnect, which has been defined as the next generation of physical SCSI (Small Computer Systems Interface) interfaces. VHDCI offers a reduced size, increased robustness, improved electrical performance, and higher density versus the previous SCSI connectors.

Features: • Conforms to EIA/SFF specifications to ensure intermateability with conforming products • Shield design can dominate reflow solder ground connection • UL File No.: E29179 • CSA File No.: LR 19980-520 **Electrical:** • Voltage: 30V • Current: .5A • Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 500MΩ minimum **Mechanical:** • Mating Force: .54N (55g) • Unmating Force: .15N (15g) • Durability: 500 cycles maximum **Physical:** • Housing: Black high temperature thermoplastic, UL94V-0 • Contact: Phosphor Bronze • Plating: Gold Flash over palladium nickel • Operating Temperature: -55°C ~ 85°C

Dimensions in mm

Fig. 1

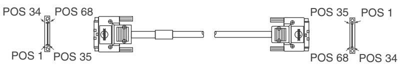

Fig. 2

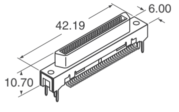

Fig. 3

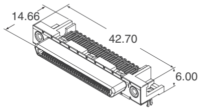

Fig. 4

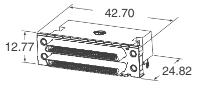

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	Ultra+ VHDCI to Ultra+ VHDCI Cable Assembly	WM7300-ND◆	79.50	69.57	53.67	79918-0080
2	Ultra+ VHDCI Receptacle	WM7304-ND	20.80	20.11	18.03	73776-0201
3	Ultra+ VHDCI Receptacle with Screw Locks	WM7302-ND	15.14	13.63	12.12	71430-0006
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7303-ND†	13.17	11.85	10.54	71430-0008
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7320-ND	13.17	11.85	10.54	71430-0004
	Ultra+ VHDCI Receptacle with Enhanced Shield and Screw Locks	WM7352-ND◆	13.17	11.85	10.54	71430-0009
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7353-ND◆	13.17	11.85	10.54	71430-0013
	Ultra+ VHDCI Receptacle w/out Enhanced Shield	WM7354-ND◆	13.17	11.85	10.54	71430-0101
	Ultra+ VHDCI Receptacle	WM7321-ND	13.17	11.85	10.54	71430-0268
4	Ultra+ VHDCI Dual Stacked Receptacle	WM7305-ND‡	34.23	30.81	27.39	74337-0051
	Ultra+ VHDCI Dual Stacked Receptacle	WM7322-ND	31.80	28.63	25.45	74337-0015
—	VHDCI Female Jack Screw	WM7323-ND◆	1.24	1.10	.73	71433-0002

◆ ***RoHS Compliant*** † Includes Jack Screw ‡ Includes Cover

molex® iPass™

Connector and Cable Assembly Solutions for Higher Density and Increased Speeds • The iPass Interconnect System offers both connectors and cable assemblies that enable flexible speed compatibility for applications ranging from 1.5 to 6.0Gpbs, with capability up to 10.0Gbps, and is an ideal interconnect solution for the growing server storage market. The iPass products support these industry standards for high-speed, multi-lane internal and external systems: • SAS (Serial Attached SCSI), also termed Mini-SAS • SATA (Serial ATA International Organization), also termed Mini-SATA • SFF (Small Form Factor), for Compact MultiLane/CML • External PCI Express (PCIe) x4, x8, x16. **External iPass Products:** • SMT Host connector *(Series 75586):* Provides placement options on both sides of the PC with a pitch of 0.8mm (0.31") • 4X External Cable Assemblies *(Series 74547):* High-performance paddle-card design with impedance matching helps reduce crosstalk and provide improved signal integrity. It also features a flexible low profile, latch pull mechanism **Internal Products:** • Right Angle and Vertical Internal Connectors with Hood Kits *(Series 75783):* 0.80mm (0.031") pitch include hood kits for internal applications • Internal Cable Assemblies *(Series 79576):* Can support SAS Generation I (3.0Gbps) and II (6.0Gbps) bandwidths, as well as SATA Generation I (1.5Gbps) and II (3.0Gbps) bandwidths.

Copper Cable Assemblies (Series 111025): These copper cables are designed to accommodate single, ganged or stacked connector configurations in extremely high-density requirements. CXP passive copper cables are available in a variety of lengths.

iPass+ HSC CXP products: Integrated Connector (Series 76105): By leveraging high-speed wafer technology and compliant pin tails, Molex developed a higher density, 12-channel connector system capable of achieving Quad Data Rates (QDR) of 10 Gbps. This one piece press-fit connector and cage assembly provides one-step placement to the board.

Stacked Dual-Port Integrated Connector (Series 76024): This stacked dual-port connector and cage assembly integrates two individual 12x ports into a single press-fit connector that provides one-step placement to the board.

Dim. in mm

Fig. 1

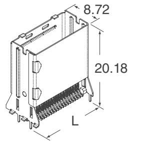

Fig. 2

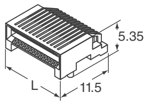

Fig. 3

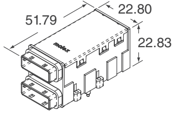

Fig. 4

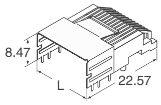

Fig. 5

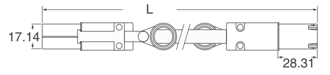

Fig. 6

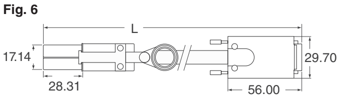

Fig. 7

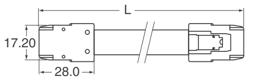

Fig. 8

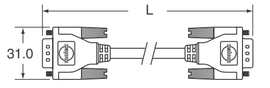

Fig. 9

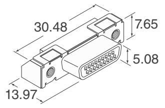

Fig. 10

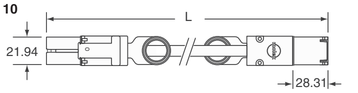

Fig. 11

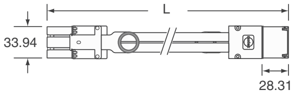

Fig. 12

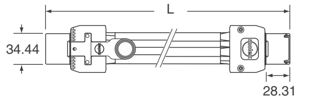

Fig.	No. of Pos.	Dimension L	Type	Digi-Key Part No.	Price Each 1	25	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Molex Part No.
0.8mm Vertical SMT Connector — Internal Application												
1	36	17.80mm	SAS, SATA	WM1162CT-ND†	5.94	4.67	—	—	WM1162TR-ND	70	257.25	75784-0126
0.8mm Right Angle Connector — External Application												
2	26	13.40mm	SAS	WM1116CT-ND†	5.25	4.04	—	3.39	WM1116TR-ND	550	1731.40	75586-0009
	26	13.40mm	SAS	WM1168CT-ND†	4.60	3.62	—	3.13	WM1168TR-ND	550	1566.40	75586-0004
	38	18.20mm	SAS	WM1117CT-ND†	5.91	4.65	—	3.90	WM1117TR-ND	550	1956.90	75586-0011
	38	18.20mm	SAS	WM1169CT-ND†	5.34	4.20	—	3.63	WM1169TR-ND	550	1818.85	75586-0010
	68	30.20mm	SAS	WM1115CT-ND†	7.87	6.18	—	5.34	WM1115TR-ND	550	2677.95	75586-0007
3	52	—	SAS	WM1157-ND	39.13	30.98	—	28.81	—	—	—	75758-0101
0.8mm Right Angle Connector with Shell for Internal Application												
4	36	17.80mm	SAS	WM1118CT-ND†	4.96	4.08	—	—	WM1118TR-ND	125	445.25	75783-0132
	36	17.80mm	SAS	WM1119CT-ND†	5.34	4.33	—	—	WM1119TR-ND	125	421.38	75783-0140
Mini-SAS to Mini-SAS — Cable Assemblies												
5	26	1.0M	Male to Male	WM1120-ND	45.11	35.71	35.09	—	—	—	—	74547-0301
	26	3.0M	Male to Male	WM1121-ND	78.41	62.08	60.99	—	—	—	—	74547-0303
	26	2.0M	Male to Male	WM1131-ND	54.59	43.23	42.47	—	—	—	—	74547-0302
	26	5.0M	Male to Male	WM1132-ND	122.62	97.08	95.38	—	—	—	—	74547-0305
Mini-SAS to SFF-8470 — Cable Assemblies												
6	26	1.0M	Male to Male	WM1122-ND	70.72	55.99	55.01	—	—	—	—	74547-2051
	26	3.0M	Male to Male	WM1123-ND	97.87	77.48	76.12	—	—	—	—	74547-2053
	26	2.0M	Male to Male	WM1133-ND	78.43	62.10	61.01	—	—	—	—	74547-2052
	26	5.0M	Male to Male	WM1134-ND	123.33	97.64	95.93	—	—	—	—	74547-2055
iPass to iPass — Cable Assemblies — Controller to Back Plane												
7	36	0.5M	Male to Male	WM1124-ND	15.14	13.88	12.62	—	—	—	—	79576-2112
iPass to iPass — Cable Assemblies — Controller to Controller												
7	36	0.5M	Male to Male	WM1170-ND	14.92	13.69	12.44	—	—	—	—	79576-2102
	36	1.0M	Male to Male	WM1126-ND	19.08	17.49	15.90	—	—	—	—	79576-2104
PCI Express to PCI Express — Cable Assemblies												
8	18	1.0M	x1 Male to Male	WM1144-ND	34.30	31.45	—	25.73	—	—	—	74576-0001
	18	3.0M	x1 Male to Male	WM1167-ND	33.50	26.53	—	24.67	—	—	—	74576-0003
9	18	—	x1 Receptacle	WM1158CT-ND†	10.88	8.56	—	7.05	WM1158TR-ND	325	2130.05	74960-3018
10	26	1.0M	Male to Male	WM1164-ND	45.11	35.71	—	33.21	—	—	—	74547-0120
	38	1.0M	x4 Male to Male	WM1146-ND	127.31	100.79	—	93.72	—	—	—	74546-0401
	38	3.0M	x4 Male to Male	WM1147-ND	165.04	130.66	—	121.49	—	—	—	74546-0403
	38	5.0M	x4 Male to Male	WM1163-ND	209.24	165.65	—	154.03	—	—	—	74546-0405
11	68	1.0M	x8 Male to Male	WM1148-ND	102.27	94.97	—	91.32	—	—	—	74546-0801
	68	3.0M	x8 Male to Male	WM1149-ND	247.52	195.95	—	182.20	—	—	—	74546-0803
12	136	1.0M	x16 Male to Male	WM1150-ND	346.97	274.69	—	255.41	—	—	—	74546-1601
	136	3.0M	x16 Male to Male	WM1151-ND	492.98	390.28	—	362.89	—	—	—	74546-1603
QFSP to QFSP Cable Assemblies												
13	38	1.0M	Male to Male	WM1160-ND	93.01	86.38	—	83.05	—	—	—	74757-1101
	38	3.0M	Male to Male	WM1161-ND	122.83	114.06	—	109.68	—	—	—	74757-2301
PCI Express Right Angle I/O Connectors												
14	136	—	External Assembly	WM1145-ND§	50.88	46.64	—	42.40	—	—	—	75581-0002
Guide Frames												
15	—	40.00mm	x8 port PCIe	WM1152-ND	13.65	12.52	—	10.24	—	—	—	74540-0100
	—	22.74mm	x4 port PCIe	WM1153-ND	12.64	11.59	—	9.48	—	—	—	74540-0400
	—	13.40mm	Single port SAS	WM1154-ND	9.07	8.32	—	6.81	—	—	—	74548-0211
16	—	41.76mm	Dual port SAS	WM1165-ND	12.85	11.78	—	9.64	—	—	—	74548-0108
	—	22.74mm	Single port SAS	WM1166-ND	9.07	8.32	—	6.81	—	—	—	74548-0111
	—	41.76mm	Dual port SAS	WM1155-ND	12.85	11.78	—	9.64	—	—	—	74548-0208
	—	79.79mm	Quad port SAS	WM1156-ND	17.26	15.82	—	12.95	—	—	—	74548-0205
17	—	—	QSFP	WM1159-ND	14.67	12.84	—	11.37	—	—	—	74750-0021
NEW! High-Speed Channel (HSC) CXP Copper and Optical System NEW!												
18	84	0.5M	Male to Male	WM8548-ND	135.05	—	124.39	121.85	—	—	—	111025-1200
	84	1.0M	Male to Male	WM8549-ND	149.31	—	137.52	134.72	—	—	—	111025-1201
	84	5.0M	Male to Male	WM8550-ND	304.50	—	280.47	274.74	—	—	—	111025-1205
19	84	—	CXP	WM8551-ND§	25.37	—	22.83	21.99	—	—	—	76105-0584
20	168	—	CXP	WM8547-ND§	45.28	—	41.24	40.43	—	—	—	76024-0568

† Cut Tape § With Cage

Fig. 13

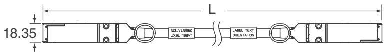

Fig. 14

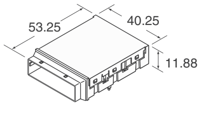

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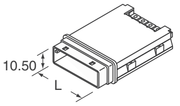

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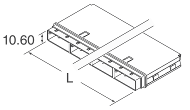

Fig. 17

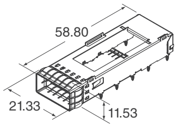

Fig. 18 *NEW!*

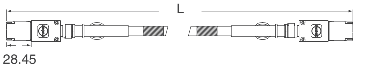

Fig. 19 *NEW!*

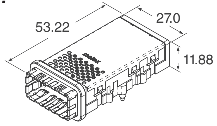

Fig. 20 *NEW!*

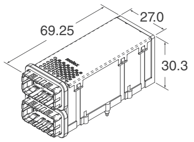

WM1043-ND (76650-0006) **iPass Connector Kit;** (SMT High Speed I/O)........ **$69.88**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Amphenol® Commercial Products SFP/SFP+ Connectors

Digi-Reel® RoHS COMPLIANT

Amphenol's SFP connector series is a 20 position connector and cage combo for mounting to a host PCB with a metal cage enclosing the connector. These connectors are similar to the Gigabit Interface Converter Interface (GBIC), but they are smaller in size and operate at much faster data transfer rates. Amphenol single port version is rated up to 4.125 Gbps data rates and stacked version up to 8 Gbps.

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Contacts:** Phosphor bronze. Amphenol Commercial Products' ExpressPort™ SFP+ Combos expand Amphenol's SFP series product offering to provide data transfer speeds of up to 10 Gbps. This is a high speed I/O interconnect system providing a higher speed, inexpensive External I/O product, primarily for the networking, telecom and storage systems markets.

Fig. 1

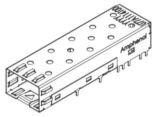

Fig. 2

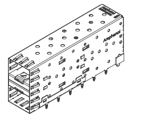

Fig. 3

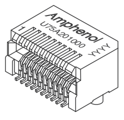

Fig. 4 ***NEW!***

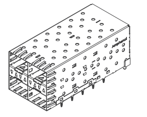

Fig. 5 ***NEW!***

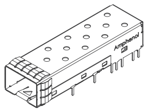

Fig. 6 ***NEW!***

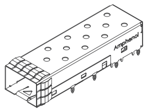

Fig. 7 ***NEW!***

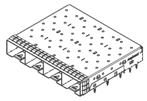

Fig. 8 ***NEW!***

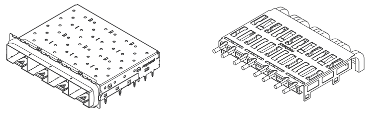

Fig. 9 ***NEW!***

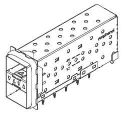

Fig. 10 ***NEW!***

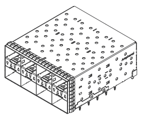

Fig. 11 ***NEW!***

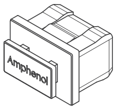

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50
	SFP Connectors				
1	Single Port Cage, 1.8mm Solder Tails, Tin Plated	U77-A1114-100TCT-ND†	2.00	1.70	1.47
	Single Port Cage, 1.8mm Solder Tails, Tin Plated	U77-A1114-100TTR-ND‡		210.00/150	
	Single Port Cage, 8 Press-Fit Pins, Nickel Plated	U77-A1118-200TCT-ND†	2.00	1.70	1.47
	Single Port Cage, 8 Press-Fit Pins, Nickel Plated	U77-A1118-200TTR-ND‡		210.00/150	
	Dual Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A2114-200TCT-ND†	2.76	2.52	—
	Dual Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A2114-200TTR-ND‡		185.30/85	
	Quad Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A4114-2001-ND◊	4.79	3.96	3.30
	Six Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A6114-2001-ND◊	6.53	5.40	4.50
2	Stacked Conn 30μ" Gold and Cage Nickel Plated, 2x1 (2 ports)	U78-B1126-00121-ND◊	8.53	7.22	6.24
3	Connector 20 Position 15μ Gold	UE75-A20-6000TCT-ND†	1.43	1.21	1.05
	Connector 20 Position 15μ Gold	UE75-A20-6000TTR-ND‡		400.00/500	
	Connector 20 Position 30μ Gold	UE75-A20-3000TCT-ND†	1.63	1.38	1.20
	Connector 20 Position 30μ Gold	UE75-A20-3000TTR-ND‡		456.00/500	
4	2 x 2 Combo with Light Pipe	U86-D2127-10121-ND✔	33.29	32.18	29.96
	2 x 4 Combo with Light Pipe	U86-D4127-10121-ND✔	59.59	57.47	54.28
	2 x 6 Combo with Light Pipe	U86-D6127-10121-ND✔	89.33	86.15	81.36
—	Cage Dust Cover	U77-A1110-8000P-ND◊	.36	.21	.12
	NEW! SFP+ Connectors NEW!				
3	Connector 20 Position 30μ Gold	UE76-A20-3000TCT-ND†	2.53	2.31	1.98
	Connector 20 Position 30μ Gold	UE76-A20-3000TTR-ND‡		750.00/500	
5	Single Port Cage, 3.2mm Solder Tails, Tin Plated	U77-A1613-1001-ND	4.21	3.49	2.91
	Single Port Cage, 3.2mm Solder Tails, Tin Plated	U77-C1613-3001-ND§	8.65	7.90	6.77
6	Single Port Cage, 8 Press-Fit Pins, Nickel Plated	U77-A1618-2001-ND	2.35	1.95	1.62
	Single Port Cage, Press-Fit Pins, Nickel Plated	U77-A1639-2001-ND	4.21	3.49	2.91
7	1 x 2 Cage Springfinger Gasket, Nickel Plated	U77-A261M-2081-ND	7.91	6.70	5.79
	1 x 4 Cage Springfinger Gasket, Nickel Plated	U77-A461M-2081-ND	12.38	11.46	10.28
	1 x 6 Cage Springfinger Gasket, Nickel Plated	U77-A661M-2081-ND	15.42	14.52	13.16
	1 x 2 Cage Springfinger Gasket, Nickel Plated	U77-C261M-2081-ND§	11.18	10.35	9.28
	1 x 4 Cage Springfinger Gasket, Nickel Plated	U77-C461M-2081-ND§	15.00	14.51	13.51
	1 x 6 Cage Springfinger Gasket, Nickel Plated	U77-C661M-2081-ND§	22.09	21.35	19.88
8	1 x 2 Cage with Elastomeric Gasket, Nickel Plated	U77-A241M-2081-ND	8.40	7.67	6.58
	1 x 4 Cage with Elastomeric Gasket, Nickel Plated	U77-A441M-2081-ND	13.66	12.64	11.34
	1 x 6 Cage with Elastomeric Gasket, Nickel Plated	U77-A641M-2081-ND	16.67	15.70	14.23
	1 x 2 Cage with Elastomeric Gasket, Nickel Plated	U77-C241M-2081-ND§	15.45	14.55	13.18
	1 x 4 Cage with Elastomeric Gasket, Nickel Plated	U77-C441M-2081-ND§	17.81	17.22	16.03
	1 x 6 Cage with Elastomeric Gasket, Nickel Plated	U77-C641M-2081-ND§	26.87	25.98	24.19
	Single Port Cage, Press-Fit Pins, Nickel Plated	U77-C1619-2001-ND§	9.82	8.97	7.69
9	Ultra-Port Combo (Elastomeric EMI Gasket)	U86-D1427-10121-ND§	17.22	16.65	15.51
	Ultra-Port Combo (Springfinger Gasket)	U86-D1627-10121-ND§	13.94	13.12	11.89
10	2 x 2 Cage EXPRESSPORT™ Combo	U86-D2427-10121-ND§	33.29	32.18	29.96
	2 x 4 Cage EXPRESSPORT™ Combo	U86-D4427-10121-ND§	59.59	57.47	54.28
	2 x 6 Cage EXPRESSPORT™ Combo	U86-D6427-10121-ND§	89.33	86.15	81.36
	2 x 2 Ultra-Port Combo	U86-D2627-10121-ND§	23.55	22.77	21.20
	2 x 4 Ultra-Port Combo	U86-D4627-10121-ND§	44.10	42.53	40.17
	2 x 6 Ultra-Port Combo	U86-D6627-10121-ND§	61.60	59.40	56.10
11	Cage Dust Cover	U77-1140-8020P-ND◊	1.56	1.22	1.03

✔ ***NEW!*** ◊ Bulk † Cut Tape ‡ Tape and Reel § With Light Pipe

Amphenol® Smart Card Connectors

Amphenol-Tuchel Electronics GmbH

Dimensions in mm

Fig. 1 — PUSHMATIC® Standard Style

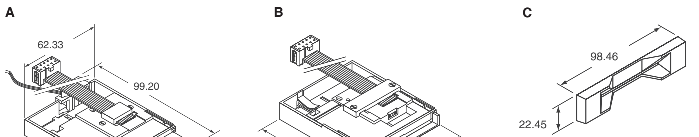

Note: Use only with Fig. 3
C702 10M008 5142
C702 10M008 5222

Fig. 2 — Superflat Style

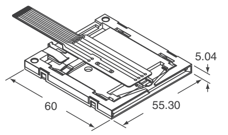

Fig. 3 — Landing Card PCB Mount

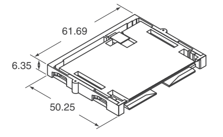

Fig. 4 — PCB Mount Wiping Contact

C702 10M008 2724
C702 10M008 2554
with 3mm Standoffs

These acceptors are low cost and provide direct sliding contact between the acceptor and the chip card. These acceptors have NC closed card present switches which open when the card is fully inserted.

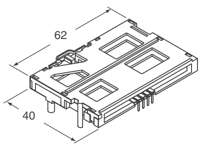

Fig. 5 — PCB Mounting Contact with 3mm Standoffs

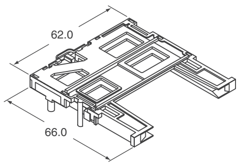

Fig. 6 — SIMLOCK®

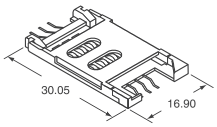

(Shown with Align-Pins)

Fig. 7 — SIMBLOCK®

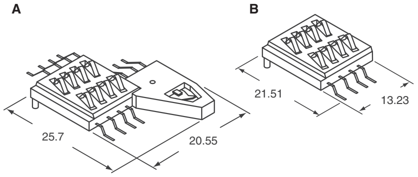

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Amphenol Part No.
1A	PUSHMATIC®, 12V, ISO	361-1001-ND	35.94	34.75	31.15	C702 10M008 7002
	PUSHMATIC®, 5V, ISO	361-1002-ND	35.94	34.75	31.15	C702 10M008 7012
1B	Push Pull, ISO	361-1003-ND	22.92	22.16	19.87	C702 10M008 5142
	Push Pull, Afnor	361-1004-ND	22.61	21.86	19.60	C702 10M008 5222
1C	Plastic Bezel, Black, Standard Style	361-1012-ND	16.86	15.88	13.89	C702 N11 141 E2
2	Superflat	361-1015-ND	11.22	10.38	8.70	C702 10M008 0014
3	ISO Landing PCB	361-1013-ND	11.45	10.46	7.97	C702 10M008 1214
4	ISO Wiping Contact, EMV, Snap-In	361-1018-ND◆	1.98	1.65	1.22	C702 10M008 2724 A
	ISO Wiping Contact, EMV, with Standoffs	361-1019-ND◆	2.50	2.08	1.54	C702 10M008 2554
5	ISO Wiping Contact with Rails, with Standoffs	361-1017-ND	7.46	6.32	4.88	C702 10M008 2834
6	SIMLOCK® without Align-Pins, Black	361-1020-1-ND◆†	2.77	2.35	1.82	C707 10M006 5002
	SIMLOCK® without Align-Pins, Black	361-1020-2-ND◆‡		474.00/800		C707 10M006 5002
	SIMLOCK® with Align-Pins, Black	361-1021-1-ND†	1.13	.96	.74	C707 10M006 0492
	SIMLOCK® with Align-Pins, Black	361-1021-2-ND‡		474.00/800		C707 10M006 0492
7A	SIMBLOCK® with NC Switch	361-1146-ND◆	4.76	3.94	2.96	C707 10M006 0652
7B	SIMBLOCK® without Switch	361-1024-ND	2.92	2.42	1.82	C707 10M006 0522

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

AMP Miniature Spring Sockets

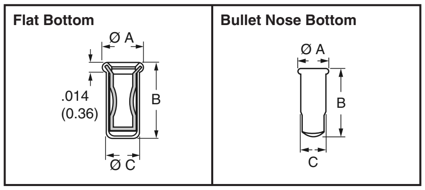

The Miniature Spring Socket System is composed of a series of individual sockets, each utilizing a permanently secured helical spring design to accept round, square or rectangular leads without socket orientation.

Features: • SMT and IRR processing compatibility • Five different hole size series .039 ~ .107" (0.99 ~ 2.72mm) available to accommodate a pin diameter range of .012 ~ .065" (0.30 ~ 1.65mm) and board thicknesses of .031 ~ .125" (0.79 ~ 3.18mm) • Low-Profile, above-board height of .022" (0.56mm) allows maximum board-to-board clearance • Small head diameter allow centerline spacing as close as .070" (1.78mm) • Inner helical spring assures maximum reliability **Material:** Spring**:** Beryllium Copper **Contact Sleeve:** Copper

Description	Pin Diameter Range Inch (mm)	Finish		Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
		Spring	Sleeve	A	B	C		1	10	
Flat Bottom										
Closed Bottom	.013 ~ .021 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26251-ND◆	.68	.55	2-330808-8
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A32890-ND◆	.52	.42	6-5330808-5
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32369-ND◆	.64	.52	2-5332095-4
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26257-ND◆	.62	.50	2-332095-1
	.018 ~ .021 (0.46 ~ 0.53)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32370-ND◆	.41	.33	2-5331272-3
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24850-ND◆	.72	.58	50863-4
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32371-ND◆	.63	.51	5050863-5
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32372-ND◆	.52	.42	5050863-8
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24856-ND◆	.57	.46	2-331272-6
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32373-ND◆	.49	.40	2-5331272-7
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24862-ND◆	.59	.48	50462-6
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32374-ND◆	.61	.49	5050462-8
	.026 ~ .029 (0.66 ~ 0.74)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24865-ND	.43	.35	3-331677-8
	.026 ~ .029 (0.66 ~ 0.74)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32375-ND◆	.64	.52	3-5331677-8
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24866-ND◆	.85	.69	50864
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32376-ND◆	.54	.43	5050864-1
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32377-ND◆	.44	.35	5050864-6
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24873-ND◆	.75	.60	1-331677-4
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24877-ND	.83	.67	1-331677-8
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32891-ND◆	.75	.60	1-5331677-8
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24880-ND◆	.83	.66	50865
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24886-ND◆	.83	.67	1-332070-1
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32378-ND◆	.58	.47	2-5332070-3
	.037 ~ .040 (0.94 ~ 1.02)	Tin	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24893-ND	.54	.44	2-332070-2
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24897-ND◆	.66	.54	50871-4
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32379-ND◆	.60	.48	5050871-5
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32892-ND◆	.60	.49	5050871-8
	.050 ~ .057 (1.27 ~ 1.45)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24900-ND◆	.66	.54	1-50871-3
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32380-ND◆	.60	.48	2-5050871-3
Open Bottom	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A32893-ND◆	.77	.62	5-5330808-6
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24849-ND◆	.91	.73	50863
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24853-ND	.37	.30	50863-6
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32381-ND◆	.47	.38	5050863-6
	.018 ~ .021 (0.46 ~ 0.53)	30µ" Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24859-ND◆	.71	.57	3-331272-8
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32382-ND◆	.54	.44	5050462-2
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32383-ND◆	.67	.54	5050864-5
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24872-ND	.58	.46	50864-8
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32384-ND◆	.52	.42	5050864-8
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32385-ND◆	.55	.44	2-5331677-2
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24875-ND◆	.63	.51	2-331677-6
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32386-ND◆	.45	.36	5050865-3
	.034 ~ .041 (0.86 ~ 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32894-ND◆	.45	.36	5050865-6
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24888-ND◆	.95	.76	1-332070-4
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24889-ND	.46	.37	2-332070-5
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32387-ND◆	.57	.46	2-5332070-5
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32388-ND◆	.66	.53	2-5332070-9
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32389-ND◆	.75	.61	5050871-1
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32895-ND◆	.48	.39	5050871-6
	.050 ~ .057 (1.27 ~ 1.45)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32390-ND◆	.66	.54	1-5050871-0
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24905-ND◆	1.11	.89	1-50871-8
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32391-ND◆	.63	.51	1-5050871-9
	.056 ~ .065 (1.42 ~ 1.65)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32392-ND◆	.54	.44	2-5050871-4
Knockout Bottom	.013 ~ .021 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26252-ND◆	.85	.68	3-330808-8
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26256-ND	1.02	.82	1-332095-9
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32393-ND◆	.46	.37	1-5332095-9
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26258-ND◆	.77	.62	2-332095-2
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24858-ND	.49	.40	3-331272-5
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24876-ND◆	.74	.60	2-331677-9
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24878-ND	.52	.42	3-331677-4
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24881-ND◆	.56	.45	50865-2
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24882-ND	.48	.39	50865-1
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32394-ND◆	.65	.53	5050865-1
	.034 ~ .041 (0.86 ~ 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32897-ND◆	.51	.41	5050865-7
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24887-ND◆	.91	.73	1-332070-7
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24892-ND	.44	.36	3-332070-5
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32898-ND◆	.55	.45	3-5332070-5
Bullet Nose Bottom — RoHS Compliant										
Loose Piece	.012 ~ .021 (0.30 ~ 0.53)	30µ" Gold	Tin	.066 (1.67)	.184 (4.64)	.042 (1.07)	A32395-ND	.33	.27	5645946-2
	.015 ~ .021 (0.38 ~ 0.53)	30µ" Gold	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32396-ND	.24	.20	5645945-2
	.015 ~ .021 (0.38 ~ 0.53)	Tin	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32397-ND	.52	.42	5645945-1
	.037 ~ .041 (0.94 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.074 (1.88)	A32398-ND	.44	.35	5645500-1
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32400-ND	.49	.40	5645980-1
Carrier Strip with Sealant	.028 ~ .033 (0.71 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A24879-ND	.45	.45	1-645986-2
	.028 ~ .033 (0.71 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A32899-ND	.39	.31	1-5645986-2
	.028 ~ .033 (0.71 ~ 0.84)	Tin	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A32900-ND	.36	.30	1-5645986-1
Carrier Strip without Sealant	.037 ~ .041 (0.94 ~ 1.04)	30µ" Gold	Tin	.089 (2.03)	.260 (7.37)	.074 (1.55)	A32901-ND	.59	.47	1-5645502-1
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32903-ND	.43	.35	5645979-1

◆ ***RoHS Compliant***

AMP I.C. Sockets

Performance Characteristics:

Physical: Engaging force: 340 grams maximum (initial) • Separating force: 25 grams minimum

Electrical: • Rating: 250VAC • Contact resistance: 20mΩ maximum initial, 30mΩ maximum after test • Dielectric withstanding voltage: 1000VRMS minimum • Insulation resistance: 10,000MΩ minimum (initial) • Capacitance: 0.5 picofarad maximum

Environmental: • Operating temperature: -55°C ~ 105°C (tin); -55°C ~ 125°C (gold) • Vibration: 15 G's, 10-2000-10 Hz with 100mA current • Shock: 100 G's sawtooth; 6 shocks

Material and Finish: • Housing: Glass-filled thermoplastic, 94V-0 rated (black)

Notes: • Closed bottom design: inhibits flux contamination and solder wicking • Overstress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages • Closed Frame Style (unless noted) • Large target area: makes it easy to insert DIP packages • Dual wiping contacts: make a gas-tight connection for high reliability • .175 (4.45) maximum seating plane above pc board • Stackable end-to-end and side-to-side • Designed to meet EiA RS-415, MIL-S-83734 and stringent computer specifications • Recognized under the Component Program of Underwriters Lab. Inc. File E28476 • Certified by Canadian Standards Association File No. LR 16455

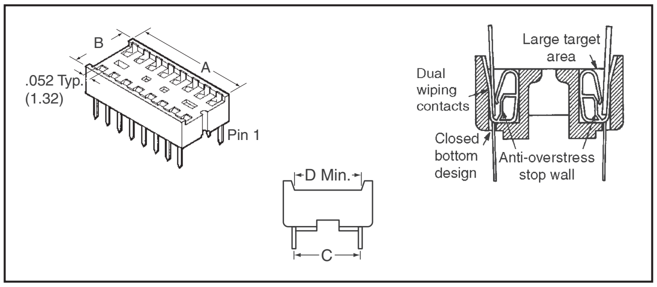

No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Dual Leaf Dip Sockets								
Phosphor Bronze with 15µ" Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9406-ND	.62	4.99	2-641296-4
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32868-ND◆	.72	5.77	1825093-1
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9408-ND	.96	7.64	2-640463-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32361-ND◆	.92	7.33	1825093-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9414-ND	1.05	8.42	2-640357-4
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32869-ND◆	1.07	8.58	1825093-3
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9416-ND	1.21	9.67	2-640358-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32870-ND◆	1.19	9.52	1825093-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94116-ND†	1.27	10.14	2-641600-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A35060-ND◆†	1.46	11.70	1825094-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9418-ND	1.40	11.23	2-640359-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32871-ND◆	1.60	12.79	1825093-5
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9420-ND	1.62	12.95	2-640464-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32872-ND◆	1.74	13.88	1825093-6
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94120-ND†	1.52	12.17	2-641602-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32873-ND◆†	1.76	14.04	1825094-6
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9424-ND	2.11	16.85	2-640361-4
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35061-ND◆	2.26	18.10	1825108-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94124-ND†	2.30	18.41	2-641932-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32874-ND◆†	2.16	17.32	1825094-7
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9428-ND	2.40	19.19	2-640362-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32875-ND◆	2.20	17.63	1825108-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94128-ND†	2.36	18.88	2-641605-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32876-ND◆†	2.61	20.90	1825109-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94132-ND†	2.52	20.12	2-644018-4
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35063-ND◆†	2.46	19.66	1825276-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9440-ND	2.93	23.40	2-640379-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32877-ND◆	3.00	24.02	1825108-3
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94140-ND†	3.10	24.80	2-641606-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35062-ND◆†	3.41	27.30	1825109-3
Beryllium Copper with 30µ" Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24793-ND	1.03	8.27	2-641296-2
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32529-ND◆	1.03	8.27	1-1825093-1
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24794-ND	.66	5.28	2-640463-2
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32878-ND◆	.68	5.47	1-1825093-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24795-ND†	2.11	16.85	2-641599-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32879-ND◆†	2.01	16.07	1-1825094-3
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24796-ND†	1.91	15.29	2-641600-2
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32880-ND◆†	2.13	17.00	1-1825094-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24797-ND†	3.30	26.36	2-641932-2
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32881-ND◆†	3.55	28.39	1-1825094-7
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24798-ND†	2.77	22.15	2-641604-2
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35058-ND◆†	3.55	28.39	1-1825109-1
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24799-ND†	4.25	34.01	2-641605-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32882-ND◆†	4.17	33.38	1-1825109-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24800-ND†	4.77	38.16	2-644018-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32883-ND◆†	4.89	39.12	1-1825276-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24801-ND†	4.35	34.80	2-641606-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32884-ND◆†	5.16	41.28	1-1825109-3
Sockets with Retention Solder Tails								
Phosphor Bronze with 15µ" Gold Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24802-ND	.82	6.55	2-641260-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32885-ND◆	.72	5.77	1825373-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35064-ND◆†	2.44	19.50	1825376-2
Phosphor Bronze with Tinned Plating — RoHS Compliant								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24804-ND†	.78	6.24	2-641615-3
Beryllium Copper with 30µ" Gold Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24805-ND†	3.08	24.65	2-641615-3
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35059-ND◆	4.21	33.70	1-1825376-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24806-ND†	4.35	34.80	2-641616-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32886-ND◆†	5.79	46.32	1-1825376-3
Beryllium Copper with Tinned Plating — RoHS Compliant								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24807-ND	.34	2.69	2-641260-1
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24808-ND†	.68	5.46	2-641609-1
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24809-ND†	.66	5.30	2-641610-1
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24810-ND†	.78	6.24	2-641612-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24811-ND†	1.01	8.11	2-641933-1
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24812-ND†	.86	6.91	2-382189-1
NEW! Ladder Style Sockets NEW!								
Phosphor Bronze with Tinned Plating — RoHS Compliant								
6	.300 (7.62)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100203-ND	.14	1.14	1-390261-1
8	.400 (10.16)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100204-ND	.13	1.04	1-390261-2
14	.700 (17.78)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100205-ND	.15	1.21	1-390261-3
16	.800 (20.32)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100206-ND	.16	1.31	1-390261-4
18	.900 (22.86)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100207-ND	.20	1.61	1-390261-5
20	1.000 (25.40)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100208-ND	.23	1.80	1-390261-6
24	1.200 (30.48)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100209-ND	.33	2.62	1-390261-8
28	1.400 (35.56)	.394 (10.00)	.300 (7.62)	.333 (8.45)	A100210-ND	.37	2.96	1-390261-9

◆ ***RoHS Compliant*** † Open Frame Style

AMP PLCC Sockets - Low Profile, Surface Mount

RoHS COMPLIANT

Features: • Low profile for high density PCB stacking • Pin 1 indicator • Allows easy PLCC removal
Specifications: • **Housing:** High temperature thermoplastic UL 94V-0 • **Current Rating:** 1A • **Durability:** 25 cycles

No. of Pos.	Dimensions Inch (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	AMP Part No.
20	.565 (14.36)	.565 (14.36)	.264 (6.71)	A97621CT-ND	1.27	1.02	.81	500	296.80	3-822516-3
28	.665 (16.90)	.665 (16.90)	.364 (9.25)	A97622CT-ND	1.38	1.11	.88	500	322.00	3-822516-2
32	.665 (16.90)	.770 (19.57)	.364 (9.25)	A97623CT-ND	1.19	.95	.76	500	328.68	3-822516-7
44	.866 (22.00)	.866 (22.00)	.564 (14.33)	A97624CT-ND	1.54	1.23	.98	350	297.47	3-822516-1
52	1.013 (25.74)	1.013 (25.74)	.664 (16.87)	A97625CT-ND	3.47	2.78	2.20	350	566.93	3-822516-4
68	1.213 (30.82)	1.213 (30.82)	.864 (21.95)	A97626CT-ND	3.74	3.00	2.38	300	621.50	3-822516-5
84	1.413 (35.90)	1.413 (35.90)	1.064 (27.03)	A97627CT-ND	4.44	3.56	2.82	250	518.00	3-822516-6

† For Tape and Reel part number, change CT-ND to TR-ND.

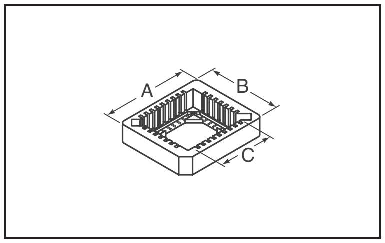

AMP Test Sockets

RoHS COMPLIANT

Reusable Receptacles for Component Testing:

- Receptacles help prevent heat damage to pc boards and components during burn-in and bread-boarding evaluation
- Receptacles eliminate need for soldering components directly to the board
- Board components can be inserted and extracted at a minimum of 100 times.
- Maximum PC board thickness: .156 inch (3.96mm)

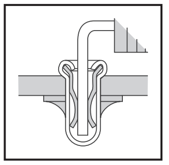

Description	Accepts Lead Size - Inch (mm)	Finish Cup	Spring	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Closed Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29070-ND	1.52	1.22	.97	380598-1
		Tin	30µ Gold	A32362-ND	.68	.55	.44	5380598-2
		Tin	Tin	A32363-ND	.42	.34	.27	5380598-3
Closed Bottom	.036 - .054 (0.91 - 1.37)	Tin	Tin	A32364-ND	.39	.32	.25	1-5380758-0
		Tin	30µ Gold	A32365-ND	.58	.47	.37	1-5380758-1
Open Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29075-ND	1.60	1.28	1.02	380635-1
		Tin	30µ Gold	A32366-ND	.77	.62	.49	5380635-2
Stand-Off	.018 - .040 (0.46 - 1.02)	Tin	30µ Gold	A32367-ND	1.43	1.15	.91	1-5380737-0

AMP SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE Dual Leaf SIP socket family provides high quality at low cost with superior handling characteristics. These stackable housings feature a "true closed bottom" design which prevents solder or flux wicking.

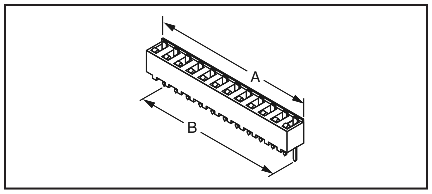

- Housing: Glass-filled thermoplastic, 94V-0 rated, black
- Contact Material: Tin Plated BE. CU.
- Low Profile - .210 inch (5.33mm) maximum
- Dual wiping contacts
- Accepts .008 - .014 inch (0.2 - 0.36mm) thick x .030 inch (0.76mm) maximum wide rectangular leads

No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
3	.295 (7.49)	.200 (5.08)	A26245-ND	.96	.77	.61	382437-1
4	.395 (10.03)	.300 (7.62)	A24813-ND	1.25	1.00	.80	382438-1
7	.695 (17.65)	.600 (15.24)	A24814-ND	.96	.77	.61	382441-1
8	.795 (20.19)	.700 (17.78)	A24815-ND	1.15	.92	.73	643640-1
10	.995 (25.27)	.900 (22.86)	A24816-ND	1.40	1.13	.89	643642-1
12	1.195 (30.35)	1.100 (27.94)	A26246-ND	1.99	1.60	1.26	643644-1
12	1.195 (30.35)	1.100 (27.94)	A29107-ND†	1.27	1.02	.81	643644-3
14	1.395 (35.43)	1.300 (33.02)	A24817-ND	2.40	1.92	1.52	643646-1
15	1.495 (37.97)	1.400 (35.56)	A24818-ND	2.65	2.13	1.68	643647-1
16	1.595 (40.51)	1.500 (38.1)	A26247-ND	1.74	1.39	1.10	643648-1
17	1.695 (43.05)	1.600 (40.64)	A26248-ND	2.57	2.06	1.64	643649-1
18	1.795 (45.59)	1.700 (43.18)	A24819-ND	2.79	2.24	1.77	643650-1
20	1.995 (50.57)	1.900 (48.26)	A24820-ND	2.05	1.64	1.30	643652-1
22	2.195 (55.75)	2.100 (53.34)	A26249-ND	4.15	3.33	2.64	643654-1
25	2.495 (63.37)	2.400 (60.96)	A24821-ND	6.42	5.14	4.07	643657-1
30	2.995 (76.07)	2.900 (73.66)	A26250-ND	6.99	5.60	4.43	643662-1

† Tin Plated Phosphor Bronze

AMP PQFP Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black

Cover: Polyphenylene sulfide (PPS), 94V-0 rated, black. (MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated)

Performance Characteristics:

- Current Rating: 1A maximum
- Operating Temperature: -55°C ~ 105°C
- Dielectric Withstanding Voltage: 750VAC minimum
- Capacitance (Adjacent Contacts): 1 picofarad maximum
- Durability: 15 insertion/withdrawal cycles

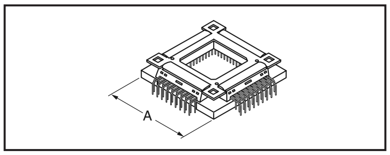

No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Conventional AMP Sockets — RoHS Compliant							
100	Housing Sub-Assembly	1.140 (28.96)	A35065-ND	45.06	36.05	28.54	2-821949-4
100	Cover	1.140 (28.96)	A24823-ND	7.11	5.69	4.51	821939-1
132	Housing Sub-Assembly	1.340 (34.04)	A32368-ND	58.50	46.80	37.05	2-821949-5
132	Cover	1.340 (34.04)	A24825-ND	7.74	6.20	4.91	821942-1
MICRO-PITCH Sockets for JEDEC Metric Quad Flat Pack IC's							
144	Housing Sub-Assembly	38.2 (1.504)	A24826-ND	34.32	27.46	21.74	822114-3
144	Housing Sub-Assembly	38.2 (1.504)	A32888-ND◆	34.89	27.92	22.10	2-822114-3
144	Cover	38.2 (1.504)	A24827-ND◆	6.09	4.88	3.86	822115-3
160	Housing Sub-Assembly	38.2 (1.504)	A24828-ND	41.01	32.81	25.98	822114-4
160	Housing Sub-Assembly	38.2 (1.504)	A32889-ND◆	41.64	33.32	26.38	2-822114-4
160	Cover	38.2 (1.504)	A24838-ND◆	6.78	5.43	4.30	822115-4
Tools							
—	Extraction Tool	—	A24839-ND	158.61	—	—	822254-1

◆ ***RoHS Compliant***

AMP BGA Sockets 0.5mm

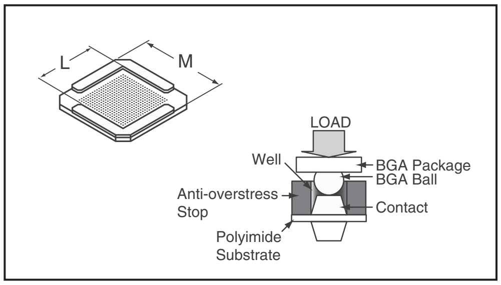

This highly conductive polymer contact provides electrically transparent signal transfer while under compression.

Applications:
- Silicon validation
- Customer reference designs
- System test and bring up
- Wafer test

Features:
- Solderless polymer contact allows for easy socket replacement
- Light compression load of 25 grams/contact limits stress on the substrate
- Compact design minimizes real estate required
- BGA sockets accommodate multiple ball sizes

Specifications:
- Contact: Proprietary compound of Polymer and Silver
- Insulator: Polyimide
- Frame: Thermoplastic, 94V-O or Polyimide
- Compression Force: 25 grams per contact average
- Durability: 40 cycles
- Contact Resistance: 50 mΩ maximum
- Capacitance: <0.01pF and 1MHz
- Inductance: <0.40 nH at 1.0 kHz
- Power Rating: 2 amps per contact maximum
- Dielectric Withstanding Voltage: 250 VAC
- Operating Temperature: 0°C ~ 105°C

No. of Contacts	Grid Size	Dimensions - Inch (mm) L	M	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1521	39 x 39	.843 (21.40)	1.04 (26.4)	A97451-ND	387.20	314.60	1-1921125-9

DIN Connectors

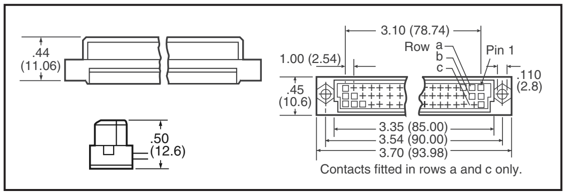

Contacts fitted in rows a and c only.

No. of Rows	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
3	64	Socket-IDC Type	T8064A-ND◆	17.60	13.47	11.41	689-096-290L001
—	64	Strain Relief	T0064-ND	1.00	.62	.56	164-096-001-000
—	64	Strain Relief	T0064A-ND◆	1.24	.84	.80	164-096-001L000

◆ ***RoHS Compliant*** ***NOTE: Uses 64 conductor .05" Flat Cable***

ON-SHORE TECHNOLOGY, INC.

Surface Mount I.C. Sockets

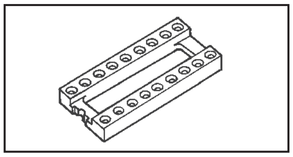

Special Features/Applications: • For surface mounted technology • Tin for solder must be in the PC board **Technical Data:** • Insulator body material: glass-filled polyethersulphone • Temperature range: 55°C ~ 200°C continuous • Solder temperature: 280°C, intermittent **Plating:** • Pin tin plated minimum 80μ nickel+minimum 150μ tin-lead • High temperature insulator

No. of Pins	Contact Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000
Surface Mount - Screw Machined Pins without Solder Tail						
6	.300 (7.62)	ED2201-ND	.74	.67	.59	.45
8	.300 (7.62)	ED2202-ND◆	.92	.83	.74	.56
14	.300 (7.62)	ED2203-ND◆	1.61	1.46	1.29	.97
16	.300 (7.62)	ED2204-ND◆	1.84	1.66	1.48	1.11
18	.300 (7.62)	ED2205-ND	1.87	1.68	1.50	1.12
20	.300 (7.62)	ED2206-ND◆	2.07	1.87	1.66	1.25
22	.400 (10.16)	ED2207-ND	2.28	2.06	1.83	1.37
24	.600 (15.24)	ED2208-ND◆	2.77	2.50	2.22	1.67
28	.600 (15.24)	ED2209-ND	3.22	2.90	2.58	1.94
40	.600 (15.24)	ED2211-ND	4.15	3.74	3.32	2.49
48	.600 (15.24)	ED2212-ND	4.97	4.48	3.98	2.99
64	.600 (15.24)	ED2213-ND	6.63	5.97	5.31	3.98

◆ ***RoHS Compliant***

NEW! Wash Away I.C. Sockets

RoHS COMPLIANT

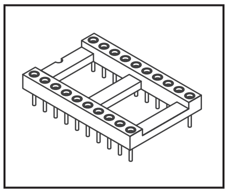

As miniaturization becomes more critical, the need for new technologies becomes more obvious. Miniaturization was a primary goal in developing the Wash-Away Socket. This product reduces the space that the socket previously required, while still maintaining a reliable connection. **Features:** • Dissolves in water: During the board washing process, the insulator body totally dissolves • EPA Friendly: The material and/or process will not contaminate any system and contains no known hazards to the environment • Auto Insertable: The rigid insulator allows for manual or automatic insertion • High Temperature: This revolutionary material is rated to 170°C

No. of Pins	Contact Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	500	On-Shore Part No.
6	.300 (7.62)	ED2679-ND	.20	.18	.16	.14	WMS-060Z
8	.300 (7.62)	ED2680-ND	.26	.24	.21	.19	WMS-080Z
14	.300 (7.62)	ED2681-ND	.46	.41	.37	.32	WMS-140Z
16	.300 (7.62)	ED2682-ND	.52	.47	.42	.37	WMS-160Z
18	.300 (7.62)	ED2683-ND	.59	.53	.47	.41	WMS-180Z
20	.300 (7.62)	ED2684-ND	.65	.59	.52	.46	WMS-200Z
24	.300 (7.62)	ED2686-ND	.78	.71	.63	.55	WMS-2410Z
24	.600 (15.24)	ED2685-ND	.78	.71	.63	.55	WMS-240Z
28	.300 (7.62)	ED2688-ND	.91	.82	.73	.64	WMS-2810Z
28	.600 (15.24)	ED2687-ND	.91	.82	.73	.64	WMS-280Z
32	.600 (15.24)	ED2689-ND	1.04	.94	.84	.73	WMS-320Z
40	.600 (15.24)	ED2690-ND	1.30	1.17	1.04	.91	WMS-400Z

OK Industries
Division of Jonard Industries Corp.

Socket Wrap I.D.

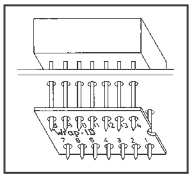

Features:

• Press fit to socket pins • Improves wiring speed • Instant pin numbering • Reduces wiring errors • Large space for user information • Simplifies troubleshooting • Accepts hand labeling

Spacing Inch (mm)	Description	Digi-Key Part No.	Pricing 1	5	25	50	100
.3 (7.62)	8 Pin I.D.	K470-ND	—	4.19	13.09	18.33	33.94
	16 Pin I.D.	K267-ND	—	4.19	13.09	18.33	33.94
	18 Pin I.D.	K496-ND	—	8.38	26.19	36.66	67.88
	20 Pin I.D.	K269-ND	—	8.38	26.19	36.66	67.88
	96 Pin I.D.	K514-ND	—	16.76	52.38	73.33	135.76
.6 (15.24)	24 Pin I.D.	K495-ND	.50	—	—	—	—
	28 Pin I.D.	K272-ND	.50	—	—	—	—

MILL-MAX

Low Cost PLCC Sockets

RoHS COMPLIANT

Fig. 1 — Thru-Hole Mount

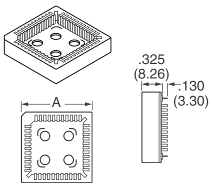

• Accepts JEDEC PLCCs MS-016 and MS-018 AE • Standoffs provide clearance for heat dissipation and cleaning • Internal standoffs ensure proper positioning of chip carrier in socket

Fig. 2 — Surface Mount

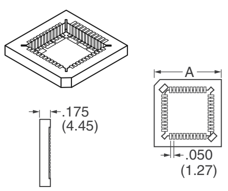

• Accepts JEDEC PLCCs MO-047 and MO-052 AE • Low profile for high density PC board stacking • Standoffs provide clearance for heat dissipation and cleaning

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Thru-Hole Mount - Plating 150u" Sn						
20	0.613 (15.57)	ED90005-ND	1.33	1.13	.93	940-44-020-24-000000
28	0.713 (18.11)	ED90006-ND	1.38	1.18	.96	940-44-028-24-000000
32	0.813 (20.65)/0.713 (18.11)	ED90007-ND	1.34	1.14	.93	940-44-032-24-000000
44	0.913 (23.19)	ED90008-ND	1.54	1.31	1.07	940-44-044-24-000000
52	1.013 (25.73)	ED90009-ND	1.89	1.60	1.31	940-44-052-24-000000
68	1.213 (30.81)	ED90010-ND	1.94	1.65	1.35	940-44-068-24-000000
84	1.413 (35.89)	ED90011-ND	2.51	2.12	1.74	940-44-084-24-000000
Fig. 2 — Surface Mount - Plating 150u" Sn						
20	0.613 (15.57)	ED90012-ND	1.11	.95	.77	940-44-020-17-400000
28	0.713 (18.11)	ED90013-ND	1.24	1.05	.86	940-44-028-17-400000
32	0.813 (20.65)/0.713 (18.11)	ED90014-ND	1.25	1.06	.87	940-44-032-17-400000
44	0.900 (22.86)	ED90015-ND	1.50	1.27	1.04	940-44-044-17-400000
52	1.013 (25.73)	ED90016-ND	1.66	1.41	1.15	940-44-052-17-400000
68	1.213 (30.81)	ED90017-ND	2.07	1.76	1.44	940-44-068-17-400000
84	1.413 (35.89)	ED90018-ND	2.38	2.02	1.65	940-44-084-17-400000

FCI

PLCC Sockets

RoHS COMPLIANT

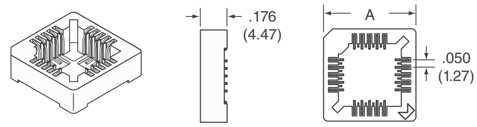

No. of Pins	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
28	0.70 (17.78)	609-3477-ND	1.83	.99	.87	69802-128LF
32	0.80 (20.32)	609-3478-ND	1.51	.82	.70	69802-032LF
32	0.80 (20.32)	609-3479-ND	1.51	.82	.70	69802-132LF
44	0.90 (22.86)	609-3480-ND	2.22	1.31	1.14	69802-044LF
44	0.90 (22.86)	609-3481-ND	2.22	1.31	1.14	69802-144LF
68	1.21 (30.82)	609-3482-ND	3.07	1.88	1.69	69802-168LF

3M Intra-Connector™

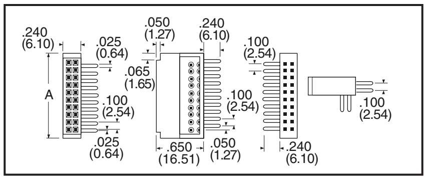

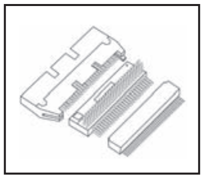

The Intra-Connector mates in-line with standard double row socket connectors. It has one set of female contacts, but two sets of male contacts at right angles. It provides instant line-by-line "probe-ability." The pins can also be used to make daisy chaining possible from a single connector cable end. Modified configurations are quickly available for special connections. The Intra-Connector system provides both straight-in and right angle functions. It mates with a standard .10" x .10" (2.54mm x 2.54mm) dual row connector or PC board-mounted .025" (.64mm) square pins. Two Intra-Connector systems used with the Intra-Switch™ system form a complete test assembly for probing signals under no load and full-load conditions.

Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922576-20-ND	19.30
26	1.460 (37.08)	922576-26-ND	20.09
34	1.860 (47.24)	922576-34-ND	22.42
40	2.160 (54.86)	922576-40-ND	24.59
50	2.660 (67.56)	922576-50-ND	26.59
60	3.160 (80.26)	922576-60-ND	30.91

3M Intra-Switch™

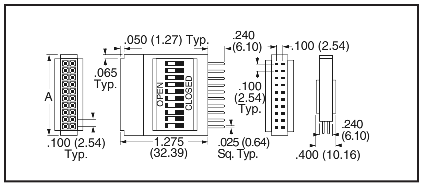

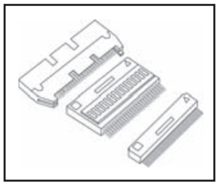

The low profile design and recessed switch buttons allow room for working in confined areas. Using a pencil or probe tip, any or all switches may be actuated.

Applications include switching command signals to or from test equipment and programming optional preset logic functions. Switch buttons are recessed to prevent accidental switching. "Open" and "closed" positions are clearly marked, molded-in the body.

Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic.

Intra-Switch is compatible with most sockets and mating headers for flat cable, including 3M, T&B/Ansley, Berg, Amp, Symbex and many others.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922578-20-ND	37.21
34	1.860 (47.24)	922578-34-ND	49.63
40	2.160 (54.86)	922578-40-ND	60.33
50	2.660 (67.56)	922578-50-ND	53.78

Modular Spring Loaded Contacts

Features:
• Modular contacts for use on .100" grid, available in heights from .137" ~ .430", supplied in single and double row contact strips • Precision machined piston/base and gold plated components assure a 1,000,000 minimum cycle life • Pistons have a long stroke relative to the low profile of the assembly • Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak • High temperature thermoplastic insulators are suitable for surface mount processes

Applications Include: Base unit (Battery/Charger) interface for portable equipment such as mobile phones/radios, bar code readers, medical and test instruments.

Dim. in inch (mm)

Fig. 1 ***NEW!***

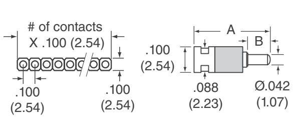

Fig. 2

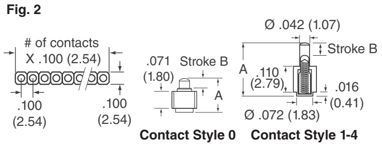

Fig. 3

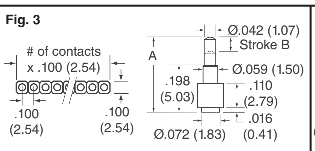

Fig. 4

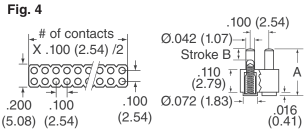

Fig. 5

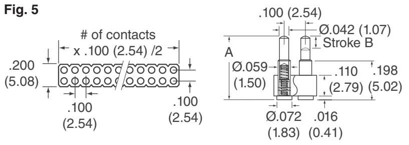

Fig. 6

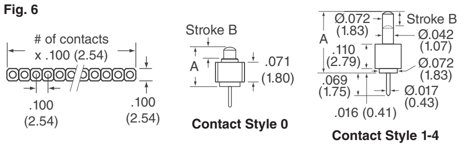

Fig. 7

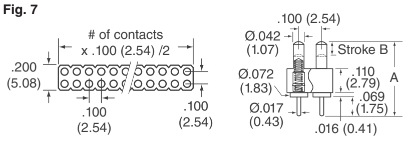

Fig.	Contacts	Initial Height Dimension A Inch (mm)	Stroke Dimension B Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
NEW! Single Row SMD Horizontal Mount - Series 810 NEW!								
1	3	.297 (7.54)	.090 (2.28)	ED90475-ND	7.09	6.34	5.23	810-22-003-40-001101
	4	.297 (7.54)	.090 (2.28)	ED90476-ND	7.61	6.82	5.61	810-22-004-40-001101
	5	.297 (7.54)	.090 (2.28)	ED90477-ND	8.59	7.69	6.33	810-22-005-40-001101
	6	.297 (7.54)	.090 (2.28)	ED90478-ND	9.56	8.56	7.05	810-22-006-40-001101
	8	.297 (7.54)	.090 (2.28)	ED90479-ND	10.74	9.62	7.92	810-22-008-40-001101
	10	.297 (7.54)	.090 (2.28)	ED90480-ND	12.48	11.17	9.20	810-22-010-40-001101

Fig.	Contacts	Contact Style	Initial Height Dimension A Inch (mm)	Stroke Dimension B Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Single Row SMD - Series 811									
2	64	0	.137 (3.48)	.039 (0.99)	ED8110-64-ND	24.20	22.48	19.60	811-22-064-30-000101
	64	1	.177 (4.50)	.045 (1.14)	ED8111-64-ND	23.40	21.74	18.95	811-22-064-30-001101
	64	2	.197 (5.00)	.055 (1.40)	ED8112-64-ND	23.60	21.92	19.11	811-22-064-30-002101
	64	3	.217 (5.51)	.055 (1.40)	ED8113-64-ND	23.84	22.14	19.30	811-22-064-30-003101
	64	4	.236 (5.99)	.055 (1.40)	ED8114-64-ND	24.04	22.33	19.46	811-22-064-30-004101
Single Row SMD - Series 812									
3	64	0	.255 (6.48)	.055 (1.40)	ED8187-64-ND	27.41	25.46	22.20	812-22-064-30-000101
	64	1	.275 (6.98)	.055 (1.40)	ED8188-64-ND	27.63	25.66	22.37	812-22-064-30-001101
	64	2	.295 (7.49)	.055 (1.40)	ED8189-64-ND	27.85	25.86	22.55	812-22-064-30-002101
	64	3	.315 (8.00)	.055 (1.40)	ED8190-64-ND	28.10	26.10	22.75	812-22-064-30-003101
	64	4	.335 (8.51)	.055 (1.40)	ED8191-64-ND	28.32	26.30	22.93	812-22-064-30-004101
	64	5	.350 (8.89)	.055 (1.40)	ED8192-64-ND	28.47	26.44	23.05	812-22-064-30-005101
	64	6	.370 (9.40)	.055 (1.40)	ED8193-64-ND	28.70	26.66	23.24	812-22-064-30-006101
	64	7	.390 (9.91)	.055 (1.40)	ED8194-64-ND	28.92	26.86	23.42	812-22-064-30-007101
	64	8	.410 (10.41)	.055 (1.40)	ED8195-64-ND	29.14	27.06	23.59	812-22-064-30-008101
	64	9	.430 (10.92)	.055 (1.40)	ED8196-64-ND	29.37	27.28	23.78	812-22-064-30-009101
Double Row SMD - Series 813									
4	72	0	.137 (3.48)	.039 (0.99)	ED8130-72-ND	26.91	24.99	21.79	813-22-072-30-000101
	72	1	.177 (4.50)	.045 (1.14)	ED8131-72-ND	26.01	24.16	21.06	813-22-072-30-001101
	72	2	.197 (5.00)	.055 (1.40)	ED8132-72-ND	26.24	24.37	21.24	813-22-072-30-002101
	72	3	.217 (5.51)	.055 (1.40)	ED8133-72-ND	26.50	24.62	21.46	813-22-072-30-003101
	72	4	.236 (5.99)	.055 (1.40)	ED8134-72-ND	26.73	24.82	21.64	813-22-072-30-004101
	72	5	.256 (6.50)	.055 (1.40)	ED8135-72-ND	27.61	25.64	22.35	813-22-072-30-005101
	72	7	.295 (7.49)	.055 (1.40)	ED8137-72-ND	28.38	26.36	22.98	813-22-072-30-007101
Double Row SMD - Series 814									
5	72	0	.255 (6.48)	.055 (1.40)	ED8165-72-ND	30.52	28.35	24.71	814-22-072-30-000101
	72	1	.275 (6.98)	.055 (1.40)	ED8166-72-ND	30.77	28.58	24.92	814-22-072-30-001101
	72	2	.295 (7.49)	.055 (1.40)	ED8167-72-ND	31.01	28.80	25.11	814-22-072-30-002101
	72	3	.315 (8.00)	.055 (1.40)	ED8168-72-ND	31.30	29.07	25.34	814-22-072-30-003101
	72	4	.335 (8.51)	.055 (1.40)	ED8169-72-ND	31.54	29.30	25.54	814-22-072-30-004101
	72	5	.350 (8.89)	.055 (1.40)	ED8170-72-ND	31.71	29.45	25.67	814-22-072-30-005101
	72	6	.370 (9.40)	.055 (1.40)	ED8171-72-ND	31.98	29.70	25.89	814-22-072-30-006101
	72	7	.390 (9.91)	.055 (1.40)	ED8172-72-ND	32.22	29.92	26.09	814-22-072-30-007101
	72	8	.410 (10.41)	.055 (1.40)	ED8173-72-ND	32.46	30.15	26.29	814-22-072-30-008101
	72	9	.430 (10.92)	.055 (1.40)	ED8174-72-ND	32.73	30.40	26.50	814-22-072-30-009101
Single Row PCB - Series 821									
6	64	0	.137 (3.48)	.039 (0.99)	ED8197-64-ND	25.20	23.40	20.40	821-22-064-10-000101
	64	1	.177 (4.50)	.045 (1.14)	ED8198-64-ND	25.25	23.46	20.45	821-22-064-10-001101
	64	2	.197 (5.00)	.055 (1.40)	ED8199-64-ND	25.47	23.66	20.63	821-22-064-10-002101
	64	3	.217 (5.51)	.055 (1.40)	ED8200-64-ND	25.71	23.88	20.82	821-22-064-10-003101
	64	4	.236 (5.99)	.055 (1.40)	ED8201-64-ND	25.91	24.06	20.98	821-22-064-10-004101
Double Row PCB - Series 823									
7	72	0	.137 (3.48)	.039 (0.99)	ED8175-72-ND	28.04	26.04	22.70	823-22-072-10-000101
	72	1	.177 (4.50)	.045 (1.14)	ED8176-72-ND	28.10	26.10	22.75	823-22-072-10-001101
	72	2	.197 (5.00)	.055 (1.40)	ED8177-72-ND	28.34	26.32	22.95	823-22-072-10-002101
	72	3	.217 (5.51)	.055 (1.40)	ED8178-72-ND	28.61	26.57	23.16	823-22-072-10-003101
	72	4	.236 (5.99)	.055 (1.40)	ED8179-72-ND	28.83	26.78	23.34	823-22-072-10-004101

Range of Contacts Available	Digi-Key Part No.	Base Price	Pin Adder
Fig. 2 — Single Row SMD - Series 811			
01 ~ 64	ED8110-XX-ND	3.26	.34
	ED8111-XX-ND	3.08	.33
	ED8112-XX-ND	3.28	.33
	ED8113-XX-ND	3.53	.33
	ED8114-XX-ND	3.73	.33
Fig. 3 — Single Row SMD - Series 812			
02 ~ 64	ED8187-XX-ND	4.02	.38
	ED8188-XX-ND	4.24	.38
	ED8189-XX-ND	3.84	.39
	ED8190-XX-ND	4.09	.39
	ED8191-XX-ND	4.32	.39
	ED8192-XX-ND	3.84	.40
	ED8193-XX-ND	4.07	.40
	ED8194-XX-ND	4.30	.40
	ED8195-XX-ND	3.89	.41
	ED8196-XX-ND	4.13	.41
Fig. 4 — Double Row SMD - Series 813			
02 ~ 72 (even)	ED8130-XX-ND	4.00	.67
	ED8131-XX-ND	3.78	.65
	ED8132-XX-ND	3.66	.66
	ED8133-XX-ND	3.93	.66
	ED8134-XX-ND	3.81	.67
	ED8135-XX-ND	3.74	.68
	ED8137-XX-ND	4.12	.71
Fig. 5 — Double Row SMD - Series 814			
04 ~ 72 (even)	ED8165-XX-ND	4.53	.76
	ED8166-XX-ND	4.44	.77
	ED8167-XX-ND	4.33	.78
	ED8168-XX-ND	4.63	.78
	ED8169-XX-ND	4.52	.79
	ED8170-XX-ND	4.69	.79
	ED8171-XX-ND	4.62	.80
	ED8172-XX-ND	4.51	.81
	ED8173-XX-ND	4.76	.81
	ED8174-XX-ND	4.68	.82
Fig. 6 — Single Row PCB - Series 821			
02 ~ 64	ED8197-XX-ND	3.65	.35
	ED8198-XX-ND	3.71	.35
	ED8199-XX-ND	3.93	.35
	ED8200-XX-ND	3.54	.36
	ED8201-XX-ND	3.75	.36
Fig. 7 — Double Row PCB - Series 823			
04 ~ 72 (even)	ED8175-XX-ND	4.10	.70
	ED8176-XX-ND	4.16	.70
	ED8177-XX-ND	4.06	.71
	ED8178-XX-ND	3.98	.72
	ED8179-XX-ND	4.21	.72

HOW TO ORDER — 4 EASY STEPS

How do I order an ED8110 single row header with 63 pins? Call Digi-Key for pricing, or determine the cost yourself, following the steps below.

ED □□□□ - □□ - ND
Series
Number of Desired Pins

How to Order — In 4 Easy Steps	***Our Example***	***Your Digi-Key Part Number***
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED8110-63-ND	ED ____-__-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)	3.26	____
Step 3. Multiply the number of pins per row you desire by "Pin Adder" of your selected Part Number (refer to chart)	63 x .34 = 21.42	__ x __ = ___
Step 4. Add Step 2 and Step 3 together for Final Cost!	Your Cost = $24.68	Your Cost = $___

Note: **For quantities of 10 or more, call Digi-Key.**

Spring Loaded Contacts – Surface Mount

Discrete Spring-Loaded Contacts
Features: • Shell Plating: 20µ" Gold over Nickel • Contact Plating: 10µ" Gold over Nickel **Shell Material:** Brass Alloy (UNS C36000) per ASTM B 16 **Brass Alloy Properties:** • Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1% • Hardness as machined: 80-90 Rockwell B • Density: .307 lbs/in3 • Electrical conductivity: 26% IACS • Melting Point: 900°C/885°C (liquid/solid) **Specifications:** • Sleeve and Plunger Material: Copper Alloy • Spring Material: Beryllium Copper • Current Rating: 2A continuous, 3A peak • Contact Resistance: 20mΩ maximum • Durability: 1,000,000 cycles minimum • Tolerances: Length: ±.005%; Diameter: ±.002%; Angles: ±2°

Dimensions in Inches (mm)

Fig. 1

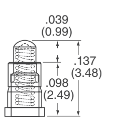

Fig. 2

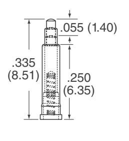

Fig. 3

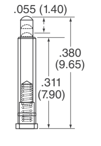

Fig. 4

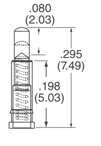

Fig. 5

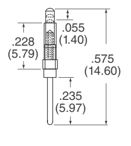

Fig. 6

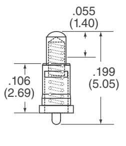

Fig. 7

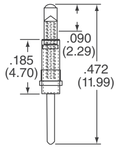

Fig. 8

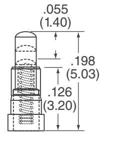

Fig. 9

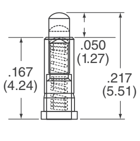

Fig.	Pin Diameter Inch (mm)	Stroke	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
1	.042 (1.07)	Short	ED90347-ND	.72	.65	.53	0923-0-15-20-78-14-11-0
2	.042 (1.07)	Standard	ED90343-ND	1.18	1.06	.88	0925-0-15-20-73-14-26-0
3	.042 (1.07)	Standard	ED90348-ND	.86	.77	.64	0927-0-15-20-75-14-11-0
4	.042 (1.07)	Long	ED90349-ND	.73	.65	.54	0928-0-15-20-77-14-11-0
5	.042 (1.07)	Standard	ED90350-ND	.86	.78	.64	0929-0-15-20-75-14-11-0
6	.042 (1.07)	Standard	ED90344-ND	.73	.65	.54	0930-0-15-20-75-14-11-0
7	.042 (1.07)	Long	ED90345-ND	.81	.73	.60	0932-0-15-20-77-14-11-0
8	.042 (1.07)	Standard	ED90346-ND	.79	.72	.59	0934-0-15-20-74-14-26-0
9	.042 (1.07)	Standard	ED90351-ND	.48	.43	.36	0936-0-15-20-75-14-11-0

Spring Loaded Contacts

Dimensions in Inches

Fig. 1

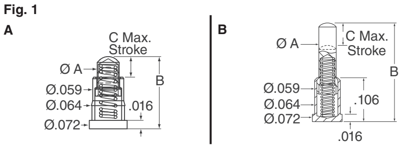

Fig. 2

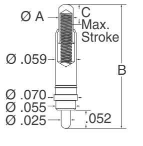

Fig. 3

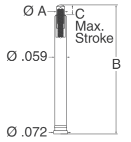

Fig. 4

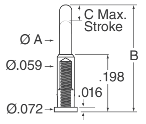

Fig. 5

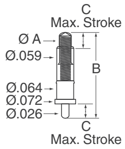

Fig. 6

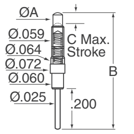

Fig. 7

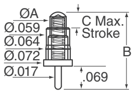

Fig. 8

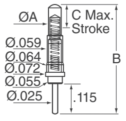

Fig. 9

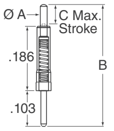

Fig. 10

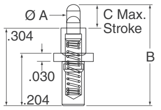

Fig. 11 *NEW!*

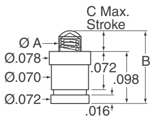

Fig. 12 *NEW!*

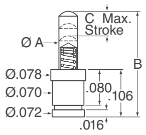

Fig. 13 *NEW!*

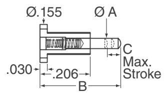

Fig. 14 *NEW!*

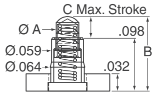

Fig. 15 *NEW!*

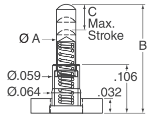

Fig. 16 *NEW!*

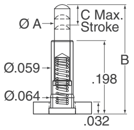

Fig.	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 10	100	1,000	Mill-Max Part No.
Modular Spring Loaded Contacts								
1A	.042 (1.07)	.137 (3.48)	.039 (0.99)	ED9000-ND	4.00	32.91	223.30	0900-0-00-00-00-00-11-0
1B	.042 (1.07)	.177 (4.50)	.055 (1.40)	ED9001-ND	3.83	31.56	214.18	0900-1-00-00-00-00-11-0
	.042 (1.07)	.197 (5.00)	.055 (1.40)	ED9002-ND	3.87	31.90	216.46	0900-2-00-00-00-00-11-0
	.042 (1.07)	.217 (5.51)	.055 (1.40)	ED9003-ND	3.92	32.30	219.17	0900-3-00-00-00-00-11-0
	.042 (1.07)	.236 (5.99)	.055 (1.40)	ED9004-ND	3.96	32.63	221.45	0900-4-00-00-00-00-11-0
2	.042 (1.07)	.348 (8.84)	.055 (1.40)	ED9008-ND	5.65	46.54	315.78	0901-0-00-00-00-00-11-0
3	.042 (1.07)	.693 (17.60)	.055 (1.40)	ED9009-ND	8.60	70.81	480.51	0905-0-00-00-00-00-11-0
4	.042 (1.07)	.255 (6.48)	.055 (1.40)	ED5063-ND	7.30	54.78	365.20	0907-0-15-20-75-14-11-0
	.042 (1.07)	.275 (6.98)	.055 (1.40)	ED5064-ND	7.38	55.32	368.80	0907-1-15-20-75-14-11-0
	.042 (1.07)	.295 (7.49)	.055 (1.40)	ED5065-ND	7.44	55.83	372.20	0907-2-15-20-75-14-11-0
	.042 (1.07)	.315 (8.00)	.055 (1.40)	ED5066-ND	7.53	56.46	376.40	0907-3-15-20-75-14-11-0
	.042 (1.07)	.335 (8.51)	.055 (1.40)	ED5067-ND	7.60	57.00	380.00	0907-4-15-20-75-14-11-0
	.042 (1.07)	.350 (8.89)	.055 (1.40)	ED5068-ND	7.64	57.33	382.20	0907-5-15-20-75-14-11-0
	.042 (1.07)	.370 (9.40)	.055 (1.40)	ED5069-ND	7.72	57.90	386.00	0907-6-15-20-75-14-11-0
	.042 (1.07)	.390 (9.91)	.055 (1.40)	ED5070-ND	7.79	58.44	389.60	0907-7-15-20-75-14-11-0
	.042 (1.07)	.410 (10.41)	.055 (1.40)	ED5071-ND	7.86	58.95	393.00	0907-8-15-20-75-14-11-0
	.042 (1.07)	.430 (10.92)	.055 (1.40)	ED5072-ND	7.94	59.52	396.80	0907-9-15-20-75-14-11-0
5	.042 (1.07)	.298 (7.57)	.0275 (0.70)	ED5073-ND‡	11.01	82.59	550.60	0980-0-15-20-75-14-11-0
6	.042 (1.07)	.575 (14.60)	.055 (1.40)	ED8186-ND	6.36	52.42	355.68	0922-0-15-20-75-14-11-0
7	.042 (1.07)	.206 (5.23)	.039 (0.99)	ED8180-ND	4.20	34.61	234.84	0906-0-15-20-76-14-11-0
	.042 (1.07)	.246 (6.25)	.055 (1.40)	ED8181-ND	4.21	34.69	235.41	0906-1-15-20-75-14-11-0
	.042 (1.07)	.324 (8.23)	.055 (1.40)	ED90384-ND	5.21	42.92	291.27	0908-0-15-20-75-14-11-0
	.042 (1.07)	.266 (6.76)	.055 (1.40)	ED8182-ND	4.26	35.07	237.98	0906-2-15-20-75-14-11-0
	.042 (1.07)	.344 (8.74)	.055 (1.40)	ED90385-ND	5.25	43.26	293.55	0908-1-15-20-75-14-11-0
	.042 (1.07)	.286 (7.26)	.055 (1.40)	ED8183-ND	4.30	35.45	240.54	0906-3-15-20-75-14-11-0
	.042 (1.07)	.364 (9.25)	.055 (1.40)	ED90386-ND	5.30	43.64	296.12	0908-2-15-20-75-14-11-0
	.042 (1.07)	.305 (7.75)	.055 (1.40)	ED8184-ND	4.35	35.78	242.82	0906-4-15-20-75-14-11-0
	.042 (1.07)	.384 (9.75)	.055 (1.40)	ED90417-ND	5.36	44.10	299.25	0908-3-15-20-75-14-11-0
	.042 (1.07)	.404 (10.26)	.055 (1.40)	ED90387-ND	5.40	44.46	301.67	0908-4-15-20-75-14-11-0
	.042 (1.07)	.419 (10.64)	.055 (1.40)	ED90388-ND	5.43	44.75	303.67	0908-5-15-20-75-14-11-0
	.042 (1.07)	.439 (11.15)	.055 (1.40)	ED90389-ND	5.48	45.11	306.09	0908-6-15-20-75-14-11-0

Fig.	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 10	100	1,000	Mill-Max Part No.
7	.042 (1.07)	.459 (11.66)	.055 (1.40)	ED90390-ND	5.53	45.53	308.94	0908-7-15-20-75-14-11-0
	.042 (1.07)	.479 (12.17)	.055 (1.40)	ED90391-ND	5.57	45.91	311.51	0908-8-15-20-75-14-11-0
	.042 (1.07)	.499 (12.67)	.055 (1.40)	ED90392-ND	5.62	46.28	314.07	0908-9-15-20-75-14-11-0
8	.042 (1.07)	.417 (10.59)	.090 (2.29)	ED8185-ND	5.35	44.08	299.11	0914-0-15-20-77-14-11-0
9	.019 (0.48)	.351 (8.92)	.055 (1.40)	ED90310-ND	1.11	9.93	81.80	0950-0-15-20-71-14-11-0
10	.050 (1.27)	.395 (10.03)	.090 (2.29)	ED90436-ND	11.80	95.28	680.55	0850-0-15-20-83-14-11-0
11	.042 (1.07)	.137 (3.48)	.039 (0.99)	ED90453CT-ND✔	12.87	106.01	—	0910-0-57-20-76-14-11-0
	.042 (1.07)	.137 (3.48)	.039 (0.99)	ED90453TR-ND✔		1135.50/1,500		0910-0-57-20-76-14-11-0
12	.042 (1.07)	.177 (4.50)	.055 (1.40)	ED90454CT-ND✔	12.70	104.62	—	0910-1-57-20-75-14-11-0
	.042 (1.07)	.177 (4.50)	.055 (1.40)	ED90454TR-ND✔		1120.50/1,500		0910-1-57-20-75-14-11-0
	.042 (1.07)	.197 (5.00)	.055 (1.40)	ED90455CT-ND✔	12.75	105.00	—	0910-2-57-20-75-14-11-0
	.042 (1.07)	.197 (5.00)	.055 (1.40)	ED90455TR-ND✔		825.00/1,100		0910-2-57-20-75-14-11-0
	.042 (1.07)	.217 (5.51)	.055 (1.40)	ED90456CT-ND✔	12.81	105.46	—	0910-3-57-20-75-14-11-0
	.042 (1.07)	.217 (5.51)	.055 (1.40)	ED90456TR-ND✔		828.30/1,100		0910-3-57-20-75-14-11-0
	.042 (1.07)	.236 (5.99)	.055 (1.40)	ED90457CT-ND✔	12.86	105.92	—	0910-4-57-20-75-14-11-0
	.042 (1.07)	.236 (5.99)	.055 (1.40)	ED90457TR-ND✔		832.70/1,100		0910-4-57-20-75-14-11-0
13	.042 (1.07)	.331 (8.41)	.055 (1.40)	ED90458-ND✔	9.10	74.97	508.73	0967-0-15-20-75-14-11-0
14	.042 (1.07)	.137 (3.48)	.039 (0.99)	ED90459-ND✔	6.27	51.66	350.55	0990-0-50-20-76-14-11-0
15	.042 (1.07)	.177 (4.50)	.055 (1.40)	ED90460-ND✔	6.08	50.06	339.72	0990-1-50-20-75-14-11-0
	.042 (1.07)	.197 (5.00)	.055 (1.40)	ED90461-ND✔	6.12	50.40	342.00	0990-2-50-20-75-14-11-0
	.042 (1.07)	.217 (5.51)	.055 (1.40)	ED90462-ND✔	6.17	50.80	344.71	0990-3-50-20-75-14-11-0
	.042 (1.07)	.236 (5.99)	.055 (1.40)	ED90463-ND✔	6.21	51.16	347.13	0990-4-50-20-75-14-11-0
16	.042 (1.07)	.255 (6.48)	.055 (1.40)	ED90464-ND✔	6.94	57.12	387.60	0997-0-50-20-75-14-11-0
	.042 (1.07)	.275 (6.98)	.055 (1.40)	ED90465-ND✔	6.98	57.48	390.02	0997-1-50-20-75-14-11-0
	.042 (1.07)	.295 (7.49)	.055 (1.40)	ED90466-ND✔	7.02	57.81	392.30	0997-2-50-20-75-14-11-0
	.042 (1.07)	.315 (8.00)	.055 (1.40)	ED90467-ND✔	7.08	58.28	395.44	0997-3-50-20-75-14-11-0
	.042 (1.07)	.335 (8.51)	.055 (1.40)	ED90468-ND✔	7.12	58.63	397.86	0997-4-50-20-75-14-11-0
	.042 (1.07)	.350 (8.89)	.055 (1.40)	ED90469-ND✔	7.16	58.93	399.86	0997-5-50-20-75-14-11-0
	.042 (1.07)	.370 (9.40)	.055 (1.40)	ED90470-ND✔	7.20	59.26	402.14	0997-6-50-20-75-14-11-0
	.042 (1.07)	.390 (9.91)	.055 (1.40)	ED90471-ND✔	7.24	59.66	404.84	0997-7-50-20-75-14-11-0
	.042 (1.07)	.410 (10.41)	.055 (1.40)	ED90472-ND✔	7.29	60.06	407.55	0997-8-50-20-75-14-11-0
	.042 (1.07)	.430 (10.92)	.055 (1.40)	ED90473-ND✔	7.34	60.42	409.97	0997-9-50-20-75-14-11-0

‡ Double Action ✔ ***NEW!***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Spring Loaded Target Connectors – Through Hole

Spring Loaded Target Connectors present a large flat surface for making tangent connections to standard .042" (1.07mm) diameter spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.

Features: Shell Plating: 10µ" Gold over 100µ" Nickel
Shell Material: Brass Alloy (UNS C36000) per ASTM B 16
Brass Alloy Properties:

- Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1%
- Hardness as machined: 80-90 Rockwell B
- Density: .307 lbs/in3
- Electrical conductivity: 26% IACS
- Melting point: 900°C/885°C (liquid/solid)

Dimensions in Inches (mm)

Fig. 1

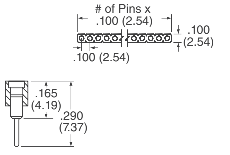

Fig. 2

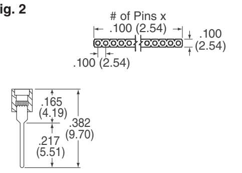

Fig. 3

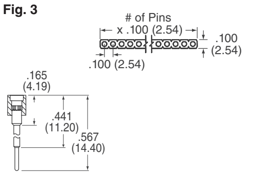

Fig. 4

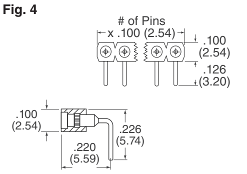

Fig. 5

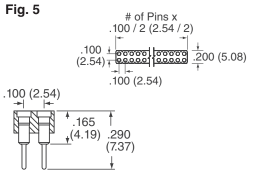

Fig. 6

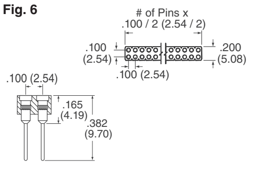

Fig. 7

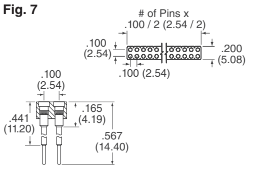

Fig. 8

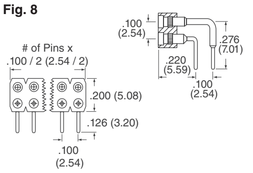

Fig. 9

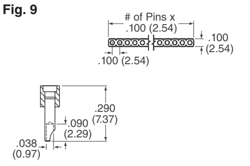

Fig. 10

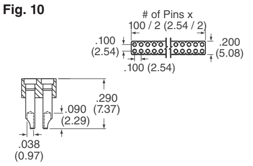

Fig.	Series	Description	No. of Pins	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
				Single Row, Solder Tail, Interconnect Headers				
1	319	Standard Solder Tail	64	ED90352-ND	10.24	9.17	7.55	319-10-164-00-001000
2	319	Long Solder Tail	64	ED90356-ND	11.84	10.60	8.73	319-10-164-00-002000
3	319	Elevated Solder Tail	64	ED90354-ND	14.57	13.05	10.74	319-10-164-00-005000
4	399	Right Angle Solder Tail	64	ED90360-ND	17.01	15.23	12.54	399-10-164-10-008000
				Double Row, Solder Tail, Interconnect Headers				
5	419	Standard Solder Tail	64	ED90353-ND	10.98	9.83	8.10	419-10-264-00-001000
6	419	Long Solder Tail	64	ED90357-ND	12.58	11.26	9.27	419-10-264-00-002000
7	419	Elevated Solder Tail	64	ED90355-ND	15.81	14.15	11.65	419-10-264-00-005000
8	499	Right Angle Solder Tail	64	ED90361-ND	23.19	20.76	17.09	499-10-264-10-008000
				Solder Cups				
9	330	Solder Cup	64	ED90358-ND	24.57	21.99	18.11	330-10-164-00-240000
10	430	Solder Cup	64	ED90359-ND	27.04	24.19	19.93	430-10-264-00-240000

Spring Loaded Connectors – Single and Double Row Strips

Features:

- Modular contacts for use on .100" grid
- Precision machined piston/base and gold plated components assure a 1,000,000 minimum cycle life
- Low resistance, high current contacts are rated at 2A continuous, 3A peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- **816 and 818 Series** contact strips are designed for manual placement into ø.023 ±.003" plated-thru-holes in the circuit board prior to intrusive reflow soldering
- **825 and 827 Series** contact strips are designed for manual placement into ø.027" minimum plated-thru-holes in the circuit board prior to hand, wave or reflow soldering

Dimensions in Inches

Fig. 1

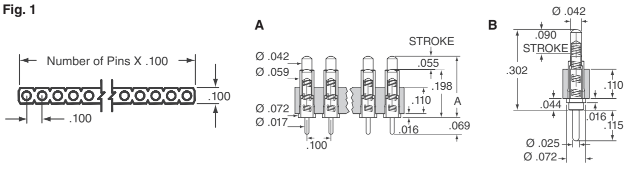

Fig. 2

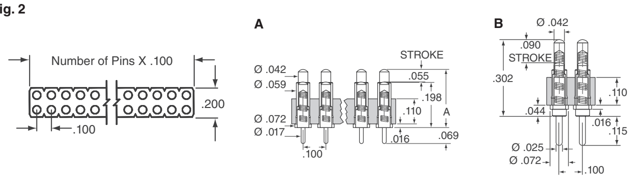

Fig.	No. of Contacts	Contact Style	Initial Height Dimension A (Inch)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
				Single Row Strip				
1A	64	0	.255	ED90362-ND	43.02	37.29	30.12	816-22-064-10-000101
	64	1	.275	ED90363-ND	43.31	37.54	30.32	816-22-064-10-001101
	64	2	.295	ED90364-ND	43.62	37.81	30.54	816-22-064-10-002101
	64	3	.315	ED90365-ND	44.01	38.15	30.81	816-22-064-10-003101
	64	4	.335	ED90366-ND	44.32	38.41	31.03	816-22-064-10-004101
	64	5	.350	ED90367-ND	44.55	38.62	31.19	816-22-064-10-005101
	64	6	.370	ED90368-ND	44.87	38.89	31.41	816-22-064-10-006101
	64	7	.390	ED90369-ND	45.20	39.18	31.65	816-22-064-10-007101
	64	8	.410	ED90370-ND	45.54	39.47	31.88	816-22-064-10-008101
	64	9	.430	ED90371-ND	45.85	39.74	32.10	816-22-064-10-009101
1B	64	—	—	ED90382-ND	43.98	38.12	30.79	825-22-064-10-001101
				Double Row Strip				
2A	72	0	.255	ED90372-ND	47.95	41.56	33.57	818-22-072-10-000101
	72	1	.275	ED90373-ND	48.27	41.84	33.80	818-22-072-10-001101
	72	2	.295	ED90374-ND	48.62	42.15	34.04	818-22-072-10-002101
	72	3	.315	ED90375-ND	49.06	42.52	34.35	818-22-072-10-003101
	72	4	.335	ED90376-ND	49.41	42.83	34.59	818-22-072-10-004101
	72	5	.350	ED90377-ND	49.67	43.06	34.78	818-22-072-10-005101
	72	6	.370	ED90378-ND	50.02	43.36	35.02	818-22-072-10-006101
	72	7	.390	ED90379-ND	50.40	43.69	35.29	818-22-072-10-007101
	72	8	.410	ED90380-ND	50.78	44.02	35.55	818-22-072-10-008101
	72	9	.430	ED90381-ND	51.13	44.32	35.80	818-22-072-10-009101
2B	72	—	—	ED90383-ND	49.03	42.50	34.33	827-22-072-10-001101

Miniature Dual-In-Line Socket Carriers

Dimensions in Inches (mm)

Features:

- Reusable carriers
- Pin Carrier Assemblies assure maximum ventilation and better visibility for inspection and repair
- Easy mounting due to the ***RECYCLABLE PLASTIC CARRIER.*** No solder wicking problems.

Insertion Characteristics:

- 3-finger • Plating: Sleeve (Pin) 200µ" Sn/Pb (RoHS Compliant: 200µ" Sn); Contact (Clip) 30µ" Au

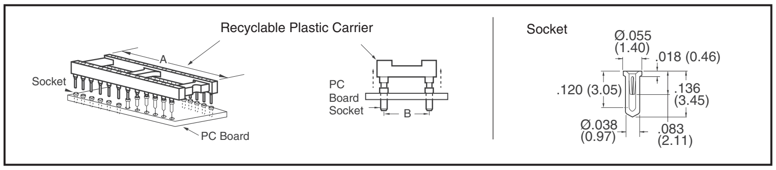

No. of Pins	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	ED6008-ND	2.06	1.43	1.16	.99	614-93-308-31-012000
14	0.7 (17.78)	0.3 (7.62)	ED6014-ND	3.47	2.41	1.95	1.67	614-93-314-31-012000
16	0.8 (20.32)	0.3 (7.62)	ED6016-ND	3.90	2.71	2.19	1.88	614-93-316-31-012000
18	0.9 (22.86)	0.3 (7.62)	ED6018-ND	4.33	3.01	2.43	2.08	614-93-318-31-012000
20	1.0 (25.40)	0.3 (7.62)	ED6020-ND	4.59	3.19	2.58	2.21	614-93-320-31-012000
24	1.2 (30.48)	0.3 (7.62)	ED6024-ND	5.42	3.76	3.04	2.61	614-93-324-31-012000
28	1.4 (35.56)	0.3 (7.62)	ED6028-ND	6.25	4.34	3.50	3.00	614-93-328-31-012000
24	1.2 (30.48)	0.6 (15.24)	ED6124-ND	5.42	3.76	3.04	2.61	614-93-624-31-012000
28	1.4 (35.56)	0.6 (15.24)	ED6128-ND	6.25	4.34	3.50	3.00	614-93-628-31-012000
32	1.6 (40.64)	0.6 (15.24)	ED6132-ND	7.07	4.91	3.97	3.40	614-93-632-31-012000
40	2.0 (50.80)	0.6 (15.24)	ED6140-ND	8.39	5.82	4.70	4.03	614-93-640-31-012000
RoHS Compliant								
8	0.4 (10.16)	0.3 (7.62)	ED90122-ND	2.64	1.84	1.49	1.27	614-43-308-31-012000
14	0.7 (17.78)	0.3 (7.62)	ED90123-ND	3.67	2.55	2.06	1.77	614-43-314-31-012000
16	0.8 (20.32)	0.3 (7.62)	ED90124-ND	4.13	2.86	2.31	1.98	614-43-316-31-012000
18	0.9 (22.86)	0.3 (7.62)	ED90125-ND	4.59	3.18	2.57	2.21	614-43-318-31-012000
20	1.0 (25.40)	0.3 (7.62)	ED90126-ND	4.86	3.37	2.73	2.34	614-43-320-31-012000
24	1.2 (30.48)	0.3 (7.62)	ED90127-ND	5.74	3.99	3.22	2.76	614-43-324-31-012000
28	1.4 (35.56)	0.3 (7.62)	ED90128-ND	6.62	4.60	3.71	3.18	614-43-328-31-012000
24	1.2 (30.48)	0.6 (15.24)	ED90129-ND	5.74	3.99	3.22	2.76	614-43-624-31-012000
28	1.4 (35.56)	0.6 (15.24)	ED90130-ND	6.62	4.60	3.71	3.18	614-43-628-31-012000
32	1.6 (40.64)	0.6 (15.24)	ED90131-ND	7.51	5.21	4.21	3.61	614-43-632-31-012000
40	2.0 (50.80)	0.6 (15.24)	ED90132-ND	8.90	6.18	4.99	4.28	614-43-640-31-012000

Dual-In-Line and PLCC Sockets

Dimensions in Inches (mm)

Fig. 1

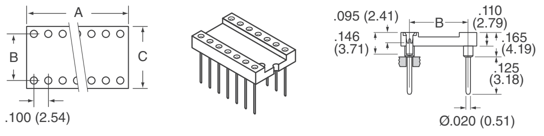

- Closed frame insulator withstands high mechanical impact • Low profile • Plating: Sleeve (Pin) 200µ" Sn/Pb (RoHS Compliant: 200µ" Sn); Contact (Clip) 30µ" Au

Fig. 2

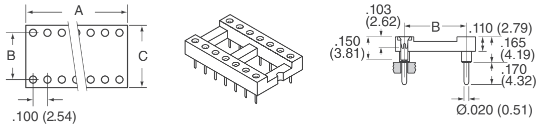

- DIP sockets with solder tail length of .170" (4.32mm), allowing application on multilayer PCBs up to .139" (3.53mm) • Plating: Sleeve (Pin) 200µ" Sn/Pb (RoHS Compliant: 200µ" Sn); Contact (Clip) 30µ" Au

Fig. 3

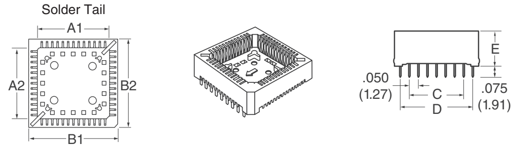

- Designed for JEDEC type devices • Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Dual-In-Line Sockets, Solder Tail (Closed Frame)								
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED60000-ND	.90	.63	.51	210-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED60001-ND	1.58	1.10	.89	210-93-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED60002-ND	1.80	1.25	1.01	210-93-316-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED60003-ND	2.70	1.88	1.52	210-93-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED60004-ND	2.70	1.88	1.52	210-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED60005-ND	3.15	2.19	1.77	210-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED60006-ND	3.60	2.50	2.02	210-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED60007-ND	4.50	3.12	2.52	210-93-640-41-001000
Fig. 1 — Dual-In-Line Sockets, Solder Tail (Closed Frame) — RoHS Compliant								
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90105-ND	.90	.63	.51	210-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90106-ND	1.58	1.10	.89	210-43-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90107-ND	1.80	1.25	1.01	210-43-316-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90108-ND	2.70	1.88	1.52	210-43-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90109-ND	2.70	1.88	1.52	210-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90110-ND	3.15	2.19	1.77	210-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90111-ND	3.60	2.50	2.02	210-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90112-ND	4.50	3.12	2.52	210-43-640-41-001000
Fig. 2 — Dual-In-Line Sockets, Long Solder Tail for Multilayer PC-Boards (Open Frame)								
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED60008-ND	1.13	.78	.63	111-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED60009-ND	1.86	1.29	1.04	111-93-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED60010-ND	2.12	1.47	1.19	111-93-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED60011-ND	2.67	1.86	1.50	111-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED60012-ND	3.18	2.21	1.79	111-93-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED60013-ND	3.18	2.21	1.79	111-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED60014-ND	3.69	2.57	2.07	111-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED60015-ND	4.20	2.92	2.36	111-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED60016-ND	5.22	3.63	2.93	111-93-640-41-001000
Fig. 2 — Dual-In-Line Sockets, Long Solder Tail for Multilayer PC-Boards (Open Frame) — RoHS Compliant								
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90113-ND	1.28	.89	.72	111-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90114-ND	2.03	1.41	1.14	111-43-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90115-ND	2.31	1.60	1.30	111-43-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90116-ND	2.76	1.92	1.55	111-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90117-ND	3.29	2.28	1.85	111-43-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90118-ND	3.29	2.28	1.85	111-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90119-ND	3.82	2.65	2.14	111-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90120-ND	4.35	3.02	2.44	111-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90121-ND	5.41	3.75	3.03	111-43-640-41-001000

No. of Pins	Dimensions – Inch (mm) A1	A2	B1	B2	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 3 — Compact PLCC Sockets, Surface Mount — RoHS Compliant												
20	.200 (5.08)	.200 (5.08)	.585 (14.86)	.585 (14.86)	.200 (5.08)	.320 (8.13)	.180 (4.57)	ED90025-ND	2.54	2.29	2.04	540-44-020-17-400000
28	.300 (7.62)	.300 (7.62)	.685 (17.40)	.685 (17.40)	.300 (7.62)	.420 (10.67)	.180 (4.57)	ED90026-ND	2.67	2.41	2.14	540-44-028-17-400000
32	.300 (7.62)	.400 (10.16)	.670 (17.02)	.770 (19.56)	.300 (7.62) / .400 (10.16)	.420 (10.67) / .520 (13.21)	.148 (3.76)	ED90027-ND†	1.70	1.53	1.36	540-44-032-17-400000
44	.500 (12.70)	.500 (12.70)	.885 (22.48)	.885 (22.48)	.500 (12.70)	.620 (15.75)	.180 (4.57)	ED90028-ND	2.17	1.95	1.74	540-44-044-17-400000
52	.600 (15.24)	.600 (15.24)	1.000 (25.40)	1.000 (25.40)	.600 (15.24)	.720 (18.29)	.180 (4.57)	ED90029-ND	3.29	2.96	2.63	540-44-052-17-400000
68	.800 (20.32)	.800 (20.32)	1.202 (30.53)	1.202 (30.53)	.800 (20.32)	.920 (23.37)	.180 (4.57)	ED90030-ND	3.32	2.99	2.66	540-44-068-17-400000
84	1.000 (25.40)	1.000 (25.40)	1.400 (35.56)	1.400 (35.56)	1.000 (25.40)	1.120 (28.45)	.180 (4.57)	ED90031-ND	4.06	3.66	3.25	540-44-084-17-400000

† Rectangular

Dual-In-Line Sockets – Right Angle Mount Closed Frame

- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300” (7.62mm) [standard] or .100” (2.54mm) row spacing.

Fig. 1

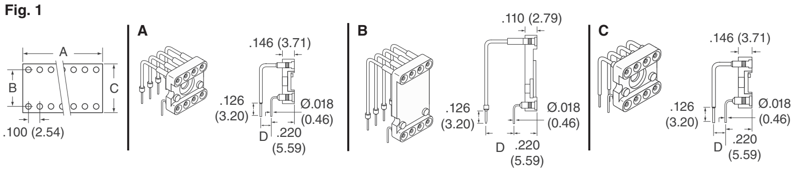

Plating: Sleeve (Pin) - 200µ" Sn/Pb - (RoHS Compliant: 200µ” Sn) Contact (Clip) - 30µ" Au

Fig. 2

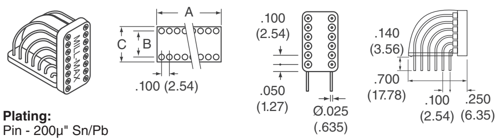

Plating:
Pin - 200µ" Sn/Pb
Contact - 200µ" Sn/Pb

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1A	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58407-ND	5.73	3.97	3.21	2.75	2.30	299-93-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58408-ND	5.22	3.63	2.93	2.51	2.09	299-93-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58409-ND	5.59	3.88	3.14	2.69	2.24	299-93-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58410-ND	6.62	4.59	3.71	3.18	2.65	299-93-312-10-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58411-ND	7.20	5.00	4.04	3.46	2.88	299-93-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58412-ND	8.68	6.02	4.86	4.17	3.48	299-93-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58413-ND	9.71	6.74	5.44	4.67	3.89	299-93-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58414-ND	10.32	7.16	5.79	4.96	4.13	299-93-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58415-ND	12.30	8.53	6.89	5.91	4.92	299-93-324-10-001000
1B	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58416-ND	6.89	4.78	3.86	3.31	2.76	299-93-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58417-ND	7.37	5.11	4.13	3.54	2.95	299-93-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58418-ND	8.03	5.57	4.50	3.86	3.21	299-93-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58419-ND	8.92	6.19	5.00	4.29	3.57	299-93-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58420-ND	10.14	7.03	5.68	4.87	4.06	299-93-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58421-ND	11.34	7.87	6.36	5.45	4.54	299-93-618-10-002000
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58423-ND	13.23	9.18	7.41	6.36	5.30	299-93-622-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58426-ND	16.72	11.60	9.37	8.03	6.69	299-93-628-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58429-ND	21.37	14.82	11.97	10.26	8.55	299-93-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58430-ND	22.72	15.76	12.73	10.91	9.09	299-93-640-10-002000
1C	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58431-ND	5.57	3.87	3.12	2.68	2.23	299-93-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58432-ND	4.53	3.15	2.54	2.18	1.82	299-93-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58433-ND	5.35	3.71	3.00	2.57	2.14	299-93-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58434-ND	6.33	4.39	3.55	3.04	2.54	299-93-312-11-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58435-ND	7.31	5.07	4.10	3.51	2.93	299-93-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58436-ND	8.29	5.75	4.65	3.98	3.32	299-93-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58437-ND	9.27	6.43	5.19	4.45	3.71	299-93-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58438-ND	9.86	6.84	5.52	4.74	3.95	299-93-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58439-ND	11.74	8.14	6.58	5.64	4.70	299-93-324-11-001000
2	10	0.5 (12.70)	0.2 (5.08)	0.3 (7.62)	—	ED7800-ND	17.54	12.16	9.82	8.42	7.02	299-99-210-12-001800
RoHS Compliant												
1A	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90133-ND	6.18	4.29	3.46	2.97	2.48	299-43-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90134-ND	5.61	3.89	3.15	2.70	2.25	299-43-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90135-ND	5.99	4.15	3.36	2.88	2.40	299-43-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90136-ND	7.09	4.92	3.98	3.41	2.84	299-43-312-10-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90137-ND	8.20	5.69	4.60	3.94	3.28	299-43-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90138-ND	9.31	6.46	5.22	4.47	3.73	299-43-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90139-ND	10.42	7.23	5.84	5.01	4.17	299-43-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90140-ND	11.08	7.68	6.21	5.32	4.44	299-43-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90141-ND	13.20	9.16	7.40	6.34	5.29	299-43-324-10-001000
1B	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90142-ND	7.46	5.18	4.18	3.59	2.99	299-43-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90143-ND	7.96	5.52	4.46	3.83	3.19	299-43-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90144-ND	8.67	6.02	4.86	4.17	3.47	299-43-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90145-ND	9.62	6.67	5.39	4.62	3.85	299-43-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90146-ND	10.93	7.58	6.12	5.25	4.38	299-43-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90147-ND	12.24	8.49	6.86	5.88	4.90	299-43-618-10-002000
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90148-ND	13.02	9.03	7.30	6.26	5.21	299-43-620-10-002000
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90149-ND	14.28	9.91	8.00	6.86	5.72	299-43-622-10-002000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90150-ND	15.54	10.78	8.71	7.46	6.22	299-43-624-10-002000
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90151-ND	16.79	11.65	9.41	8.07	6.72	299-43-626-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90152-ND	18.05	12.52	10.11	8.67	7.23	299-43-628-10-002000
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90153-ND	19.31	13.39	10.82	9.27	7.73	299-43-630-10-002000
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90154-ND	20.57	14.26	11.52	9.88	8.23	299-43-632-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90155-ND	23.08	16.01	12.93	11.08	9.24	299-43-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90156-ND	24.55	17.02	13.75	11.79	9.82	299-43-640-10-002000
1C	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90157-ND	6.00	4.16	3.36	2.88	2.40	299-43-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90158-ND	4.83	3.35	2.71	2.32	1.94	299-43-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90159-ND	5.72	3.97	3.21	2.75	2.29	299-43-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90160-ND	6.77	4.70	3.80	3.25	2.71	299-43-312-11-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90161-ND	7.82	5.43	4.38	3.76	3.13	299-43-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90162-ND	8.87	6.16	4.97	4.26	3.55	299-43-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90163-ND	9.92	6.88	5.56	4.77	3.97	299-43-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90164-ND	10.56	7.32	5.92	5.07	4.23	299-43-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90165-ND	12.58	8.72	7.05	6.04	5.04	299-43-324-11-001000

Transistor Sockets

Plating: Sleeve (Pin): 200µ” Sn/Pb (RoHS Compliant: 200µ” Sn); Contact (Clip): 30µ” Au

Dim. in mm

Fig. 1

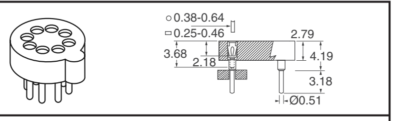

Fig. 2

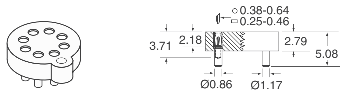

Fig.	No. of Pins	Package	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
TO-5 Package							
1	3	Through Hole	ED2150-ND	1.33	1.13	.93	917-93-103-41-005000
	3	Through Hole	ED90273-ND◆	1.81	1.53	1.26	917-43-103-41-005000
	4	Through Hole	ED2151-ND	1.42	1.21	.99	917-93-104-41-005000
	4	Through Hole	ED90274-ND◆	1.90	1.62	1.32	917-43-104-41-005000
	8	Through Hole	ED2152-ND	1.89	1.61	1.32	917-93-108-41-005000
	8	Through Hole	ED90275-ND◆	2.40	2.03	1.67	917-43-108-41-005000
2	3	SMT	ED90421-ND◆	1.79	1.52	1.25	917-43-103-41-001000
	4	SMT	ED90422-ND◆	1.87	1.59	1.30	917-43-104-41-001000
	8	SMT	ED90423-ND◆	2.41	2.05	1.68	917-43-108-41-001000
TO-100 Package							
1	8	Through Hole	ED2153-ND	1.89	1.61	1.32	917-93-208-41-005000
	8	Through Hole	ED90276-ND◆	2.40	2.03	1.67	917-43-208-41-005000
	10	Through Hole	ED2154-ND	2.71	2.30	1.88	917-93-210-41-005000
	10	Through Hole	ED90277-ND◆	2.85	2.41	1.98	917-43-210-41-005000
2	8	SMT	ED90424-ND◆	2.41	2.05	1.68	917-43-208-41-001000
	10	SMT	ED90425-ND◆	2.76	2.34	1.91	917-43-210-41-001000

◆ ***RoHS Compliant***

MILL-MAX Dual-In-Line Sockets – Open Frame (Screw Machined)

Solder Tail

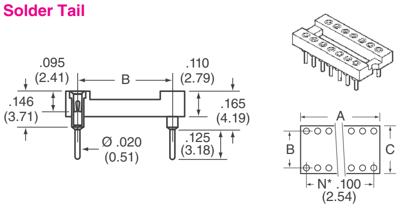

Most popular line of standard low profile IC-Sockets. Open frame design leaves space beneath IC for improved heat dissipation, easier PCB cleaning and inspection. **Insertion Characteristics:** 4-finger standard

Wire Wrap

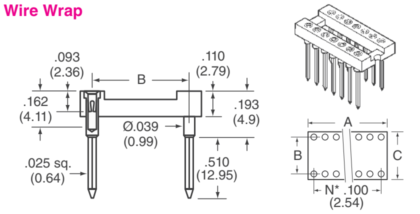

Solderless wire wrap terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Length of terminal for three-level wrapping. **Insertion Characteristics:** 4-finger standard

Low Profile

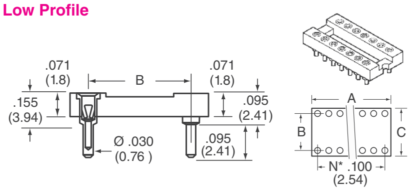

"Ultra low profile" Dual-in-line sockets are equipped with specially designed contacts allowing .095" (2.41mm) height above PCB. Special short contact requires .075" (1.91mm) insertion depth only. Solder tail diameter .030" (.76mm). **Insertion Characteristics:** 4-finger short contact

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
Solder Tail (Gold)									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3308-ND	.75	.52	.42	.36	110-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3314-ND	1.31	.91	.74	.63	110-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3316-ND	1.50	1.04	.84	.72	110-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3318-ND	1.69	1.17	.95	.81	110-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3320-ND	1.88	1.30	1.05	.90	110-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3324-ND	2.25	1.56	1.26	1.08	110-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3328-ND	2.63	1.82	1.47	1.26	110-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED3422-ND	2.06	1.43	1.16	.99	110-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3424-ND	2.25	1.56	1.26	1.08	110-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3624-ND	2.25	1.56	1.26	1.08	110-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3628-ND	2.63	1.82	1.47	1.26	110-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3632-ND	3.00	2.08	1.68	1.44	110-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3640-ND	3.75	2.60	2.10	1.80	110-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3648-ND	4.50	3.12	2.52	2.16	110-93-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3964-ND	6.00	4.16	3.36	2.88	110-93-964-41-001000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
4	.398 (10.11)	0.3 (7.62)	.398 (10.11)	ED90427-ND	1.97	1.37	1.11	.95	110-43-308-10-001000
4	.697 (17.70)	0.3 (7.62)	.398 (10.11)	ED90428-ND	2.06	1.43	1.16	.99	110-43-314-10-001000
4	.798 (20.27)	0.3 (7.62)	.398 (10.11)	ED90434-ND	2.08	1.45	1.17	1.00	110-43-316-10-004000
6	.498 (12.65)	0.2 (5.08)	.299 (7.60)	ED90426-ND	2.20	1.53	1.24	1.06	110-43-210-10-001000
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90032-ND	.75	.52	.42	.36	110-43-308-41-001000
8	.498 (12.65)	0.2 (5.08)	.299 (7.60)	ED90430-ND	2.40	1.67	1.35	1.16	110-43-210-10-002000
8	.697 (17.70)	0.3 (7.62)	.398 (10.11)	ED90431-ND	2.42	1.68	1.36	1.16	110-43-314-10-002000
8	.799 (20.30)	0.3 (7.62)	.398 (10.11)	ED90433-ND	2.44	1.70	1.37	1.18	110-43-316-10-003000
8	.798 (20.27)	0.3 (7.62)	.398 (10.11)	ED90435-ND	2.48	1.72	1.39	1.19	110-43-316-10-005000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90033-ND	1.31	.91	.74	.63	110-43-314-41-001000
14	1.398 (35.51)	0.3 (7.62)	.398 (10.11)	ED90432-ND	3.10	2.15	1.74	1.49	110-43-328-10-002000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90034-ND	1.50	1.04	.84	.72	110-43-316-41-001000
16	1.398 (35.51)	0.3 (7.62)	.398 (10.11)	ED90429-ND	3.36	2.33	1.88	1.62	110-43-328-10-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90035-ND	1.69	1.17	.95	.81	110-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90036-ND	1.88	1.30	1.05	.90	110-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90037-ND	2.25	1.56	1.26	1.08	110-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90038-ND	2.63	1.82	1.47	1.26	110-43-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90039-ND	2.06	1.43	1.16	.99	110-43-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90040-ND	2.25	1.56	1.26	1.08	110-43-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90041-ND	2.25	1.56	1.26	1.08	110-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90042-ND	2.63	1.82	1.47	1.26	110-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90043-ND	3.00	2.08	1.68	1.44	110-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90044-ND	3.75	2.60	2.10	1.80	110-43-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90045-ND	4.50	3.12	2.52	2.16	110-43-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED90046-ND	4.69	3.25	2.63	2.25	110-43-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90047-ND	6.00	4.16	3.36	2.88	110-43-964-41-001000
Sleeve (Pin) – 10µ" Au; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED56083-ND	1.05	.73	.59	.51	110-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED56143-ND	1.84	1.28	1.03	.89	110-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED56163-ND	2.10	1.46	1.18	1.01	110-13-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED56183-ND	2.36	1.64	1.33	1.14	110-13-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED56203-ND	2.63	1.82	1.47	1.26	110-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED56243-ND	3.15	2.19	1.77	1.52	110-13-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED56283-ND	3.68	2.55	2.06	1.77	110-13-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED56246-ND	3.15	2.19	1.77	1.52	110-13-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED56286-ND	3.68	2.55	2.06	1.77	110-13-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED56326-ND	4.20	2.92	2.36	2.02	110-13-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED56406-ND	5.25	3.64	2.94	2.52	110-13-640-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED56646-ND	8.40	5.83	4.71	4.04	110-13-964-41-001000
Solder Tail (Tin)									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 200µ" Sn/Pb									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3108-ND	.53	.37	.30	.26	110-99-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3114-ND	.92	.64	.52	.45	110-99-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3116-ND	1.05	.73	.59	.51	110-99-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3118-ND	1.18	.82	.67	.57	110-99-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3120-ND	1.31	.91	.74	.63	110-99-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3124-ND	1.58	1.10	.89	.76	110-99-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3128-ND	1.84	1.28	1.03	.89	110-99-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3524-ND	1.58	1.10	.89	.76	110-99-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3724-ND	1.58	1.10	.89	.76	110-99-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3728-ND	1.84	1.28	1.03	.89	110-99-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3732-ND	2.10	1.46	1.18	1.01	110-99-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3740-ND	2.63	1.82	1.47	1.26	110-99-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3748-ND	3.15	2.19	1.77	1.52	110-99-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3764-ND	4.20	2.92	2.36	2.02	110-99-964-41-001000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 200µ" Sn — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90048-ND	.53	.37	.30	.26	110-44-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90049-ND	.92	.64	.52	.45	110-44-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90050-ND	1.05	.73	.59	.51	110-44-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90051-ND	1.18	.82	.67	.57	110-44-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90052-ND	1.31	.91	.74	.63	110-44-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90053-ND	1.58	1.10	.89	.76	110-44-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90054-ND	1.84	1.28	1.03	.89	110-44-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90055-ND	1.58	1.10	.89	.76	110-44-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90056-ND	1.58	1.10	.89	.76	110-44-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90057-ND	1.84	1.28	1.03	.89	110-44-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90058-ND	2.10	1.46	1.18	1.01	110-44-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90059-ND	2.63	1.82	1.47	1.26	110-44-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90060-ND	3.15	2.19	1.77	1.52	110-44-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90061-ND	4.20	2.92	2.36	2.02	110-44-964-41-001000
Wire Wrap									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED4308-ND	2.13	1.48	1.20	1.03	123-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED4314-ND	3.50	2.43	1.96	1.68	123-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED4316-ND	4.00	2.78	2.24	1.92	123-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED4318-ND	4.50	3.12	2.52	2.16	123-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED4320-ND	4.80	3.33	2.69	2.31	123-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED4324-ND	6.21	4.31	3.48	2.98	123-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED4328-ND	7.16	4.97	4.02	3.44	123-93-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED4424-ND	6.21	4.31	3.48	2.98	123-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED4624-ND	6.21	4.31	3.48	2.98	123-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED4628-ND	7.16	4.97	4.02	3.44	123-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED4632-ND	8.13	5.64	4.56	3.91	123-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED4640-ND	9.20	6.38	5.15	4.42	123-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED4648-ND	11.48	7.97	6.44	5.52	123-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED4950-ND	15.11	10.48	8.47	7.26	123-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED4964-ND	17.59	12.20	9.85	8.45	123-93-964-41-001000
Sleeve (Pin) — 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90166-ND	2.67	1.86	1.50	1.29	123-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90167-ND	4.10	2.85	2.30	1.97	123-43-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90168-ND	4.62	3.21	2.59	2.22	123-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90169-ND	5.14	3.57	2.88	2.47	123-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90170-ND	5.45	3.78	3.06	2.62	123-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90171-ND	6.45	4.48	3.62	3.10	123-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90172-ND	7.46	5.17	4.18	3.58	123-43-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90173-ND	5.96	4.13	3.34	2.86	123-43-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90174-ND	6.45	4.48	3.62	3.10	123-43-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90175-ND	6.45	4.48	3.62	3.10	123-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90176-ND	7.46	5.17	4.18	3.58	123-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90177-ND	8.46	5.87	4.74	4.06	123-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90178-ND	10.04	6.97	5.63	4.83	123-43-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90179-ND	11.96	8.30	6.70	5.75	123-43-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED90180-ND	15.91	11.04	8.92	7.64	123-43-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90181-ND	18.47	12.81	10.35	8.87	123-43-964-41-001000
Sleeve (Pin) – 10µ" Au; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED57083-ND	2.84	1.98	1.60	1.37	123-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED57143-ND	4.74	3.29	2.66	2.28	123-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED57163-ND	5.42	3.76	3.04	2.61	123-13-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED57203-ND	6.96	4.83	3.90	3.34	123-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED57243-ND	8.26	5.73	4.63	3.97	123-13-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57246-ND	8.26	5.73	4.63	3.97	123-13-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED57286-ND	9.56	6.63	5.36	4.59	123-13-628-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED57406-ND	12.92	8.96	7.24	6.21	123-13-640-41-001000
Low Profile									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED5308-ND	1.12	.78	.63	.54	115-93-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED5314-ND	1.82	1.27	1.03	.88	115-93-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED5316-ND	2.08	1.45	1.17	1.00	115-93-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED5318-ND	2.35	1.63	1.32	1.13	115-93-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED5320-ND	2.51	1.75	1.41	1.21	115-93-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED5324-ND	3.13	2.18	1.76	1.51	115-93-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED5328-ND	3.52	2.45	1.98	1.70	115-93-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED5422-ND	3.17	2.20	1.78	1.52	115-93-422-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED5624-ND	3.02	2.10	1.70	1.45	115-93-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED5628-ND	3.52	2.45	1.98	1.70	115-93-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED5632-ND	4.13	2.87	2.32	1.99	115-93-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED5640-ND	5.03	3.49	2.82	2.42	115-93-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED5648-ND	6.29	4.36	3.52	3.02	115-93-648-41-003000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90208-ND	1.28	.89	.72	.62	115-43-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90209-ND	2.00	1.39	1.13	.97	115-43-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90210-ND	2.27	1.58	1.28	1.10	115-43-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90211-ND	2.54	1.76	1.43	1.22	115-43-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90212-ND	2.72	1.89	1.53	1.31	115-43-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90213-ND	3.24	2.25	1.82	1.56	115-43-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90214-ND	3.76	2.61	2.11	1.81	115-43-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90215-ND	3.29	2.28	1.85	1.58	115-43-422-41-003000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90216-ND	3.82	2.65	2.14	1.84	115-43-424-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90217-ND	3.24	2.25	1.82	1.56	115-43-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90218-ND	3.76	2.61	2.11	1.81	115-43-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90219-ND	4.28	2.97	2.40	2.06	115-43-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90220-ND	5.33	3.70	2.99	2.56	115-43-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90221-ND	6.51	4.52	3.65	3.13	115-43-648-41-003000

IC Sockets

With Integral Decoupling Capacitor Machine Screw Contact

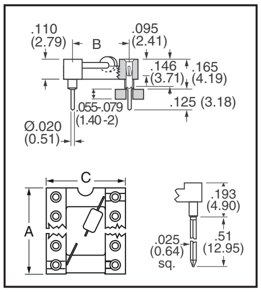

Special Features/Applications:

- To eliminate noise at the source before it can reach the chip
- Advantages for uses such as high speed logic and memory applications
- To eliminate long leads as potential sources of noise because capacitor leads are connected directly to the ground and voltage pin of the socket

Technical Data: • Insulator body material: glass filled polyester UL94V-0 • Pin: screw machined Socket with integral glass encapsulated ceramic capacitor 0.1μF, 50VDC

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Tin Plated, Solder Tail								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2101-ND	3.67	31.82	257.04	110-93-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2102-ND	3.83	33.18	267.96	110-93-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2103-ND	4.52	39.16	316.26	110-93-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2104-ND	4.17	36.14	291.90	110-93-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2106-ND	4.75	41.13	332.22	110-93-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2105-ND	5.42	46.93	379.05	110-93-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2107-ND	5.39	46.75	377.58	110-93-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2108-ND	9.38	81.33	656.88	110-93-640-41-801000
Tin Plated, Solder Tail — RoHS Compliant								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90182-ND	3.92	34.01	274.68	110-43-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90183-ND	4.46	38.64	312.06	110-43-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90184-ND	4.81	41.68	336.63	110-43-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90185-ND	4.80	41.63	336.21	110-43-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90186-ND	5.42	46.93	379.05	110-43-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90187-ND	5.74	49.76	401.94	110-43-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90188-ND	6.10	52.83	426.72	110-43-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90189-ND	10.01	86.71	700.35	110-43-640-41-801000
Gold Plated, Solder Tail — RoHS Compliant								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2109-ND	4.22	36.53	295.05	110-13-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2110-ND	4.81	41.70	336.84	110-13-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2111-ND	5.22	45.24	365.40	110-13-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2112-ND	4.92	42.61	344.19	110-13-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2114-ND	6.00	52.00	420.00	110-13-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2113-ND	6.32	54.73	442.05	110-13-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2115-ND	6.80	58.94	476.07	110-13-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2116-ND	10.82	93.78	757.47	110-13-640-41-801000
3-Level Tin Plated Wire-Wrap								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2117-ND	5.85	50.70	409.50	123-93-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2118-ND	6.14	53.20	429.66	123-93-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2119-ND	6.66	57.69	465.99	123-93-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2120-ND	6.75	58.47	472.29	123-93-320-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2121-ND	8.12	70.36	568.26	123-93-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2122-ND	8.83	76.49	617.82	123-93-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2123-ND	14.13	122.49	989.31	123-93-640-41-801000
3-Level Tin Plated Wire-Wrap — RoHS Compliant								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90190-ND	6.13	53.14	429.24	123-43-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90191-ND	6.50	56.32	454.86	123-43-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90192-ND	7.05	61.10	493.50	123-43-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90193-ND	7.13	61.83	499.38	123-43-320-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90194-ND	8.61	74.62	602.70	123-43-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90195-ND	9.32	80.78	652.47	123-43-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90196-ND	15.04	130.36	1052.94	123-43-640-41-801000

Dual-In-Line Sockets – Low Profile Open Frame

- Dip Sockets with reduced height; only .122" (3.10mm) above PCB. • Hi-Rel, 4-finger #30 clip

Plating: Sleeve (Pin) – 200μ" Sn/Pb; (RoHS Compliant: 200μ" Sn), Contact (Clip) – 30μ" Au

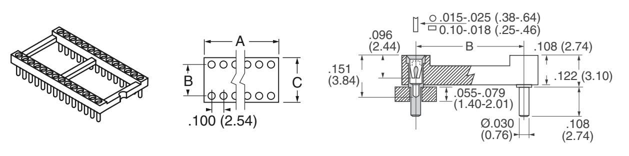

No.of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED58083-ND	.91	7.73	63.23	233.23	115-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED58143-ND	1.53	12.98	106.20	391.76	115-93-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED58163-ND	1.75	14.82	121.28	447.37	115-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED58183-ND	1.97	16.67	136.35	502.98	115-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED58203-ND	2.11	17.88	146.25	539.50	115-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED58243-ND	2.63	22.28	182.25	672.30	115-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED58283-ND	2.96	25.03	204.75	755.30	115-93-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED58246-ND	2.63	22.28	182.25	672.30	115-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED58286-ND	2.96	25.03	204.75	755.30	115-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED58326-ND	3.48	29.45	240.98	888.93	115-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED58406-ND	4.23	35.78	292.73	1079.83	115-93-640-41-001000
RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90197-ND	1.05	8.86	72.45	267.26	115-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90198-ND	1.69	14.30	117.00	431.60	115-43-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90199-ND	1.91	16.20	132.53	488.87	115-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90200-ND	2.14	18.12	148.28	546.97	115-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90201-ND	2.29	19.39	158.63	585.15	115-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90202-ND	2.73	23.10	189.00	697.20	115-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90203-ND	3.17	26.81	219.38	809.25	115-43-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90204-ND	2.73	23.10	189.00	697.20	115-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90205-ND	3.17	26.81	219.38	809.25	115-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90206-ND	3.61	30.53	249.75	921.30	115-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90207-ND	4.49	37.95	310.50	1145.40	115-43-640-41-001000

Shrink Dip Sockets – Solder Tail – Open Frame

- High density Dual-in-Line Sockets for devices featuring .070" (1.78mm) lead spacing
- Four-finger beryllium copper contacts meet high vibration and shock requirements

Insertion Characteristics: 4-finger standard

Plating: Sleeve (Pin) – 200μ" Sn/Pb; (RoHS Compliant: 200μ" Sn), Contact (Clip) – 30μ" Au

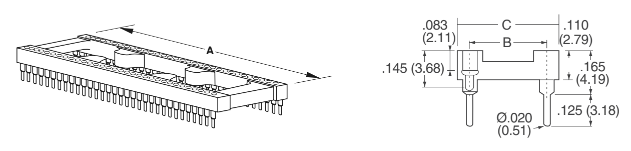

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED22163-ND	3.87	26.86	216.93	117-93-316-41-005000
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED22284-ND	5.53	38.32	309.54	117-93-428-41-005000
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED22304-ND	5.80	40.20	324.66	117-93-430-41-005000
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED22484-ND	8.50	58.94	476.07	117-93-448-41-005000
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED22206-ND	3.95	27.40	221.34	117-93-620-41-005000
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED22286-ND	5.35	37.10	299.67	117-93-628-41-005000
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED22406-ND	7.16	49.63	400.89	117-93-640-41-005000
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED22426-ND	7.50	51.97	419.79	117-93-642-41-005000
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED22486-ND	8.50	58.94	476.07	117-93-648-41-005000
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED22526-ND	9.17	63.60	513.66	117-93-652-41-005000
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED22566-ND	9.84	68.25	551.25	117-93-656-41-005000
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED22646-ND	11.19	77.58	626.64	117-93-664-41-005000
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED22686-ND	11.86	82.21	664.02	117-93-668-41-005000
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED22647-ND	10.74	74.46	601.44	117-93-764-41-005000
RoHS Compliant								
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED90222-ND	4.05	28.08	226.80	117-43-316-41-005000
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED90223-ND	5.78	40.07	323.61	117-43-428-41-005000
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED90224-ND	6.04	41.86	338.10	117-43-430-41-005000
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED90225-ND	8.88	61.54	497.07	117-43-448-41-005000
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED90226-ND	4.11	28.52	230.37	117-43-620-41-005000
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED90227-ND	5.58	38.69	312.48	117-43-628-41-005000
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED90228-ND	7.47	51.79	418.32	117-43-640-41-005000
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED90229-ND	7.82	54.21	437.85	117-43-642-41-005000
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED90230-ND	8.88	61.54	497.07	117-43-648-41-005000
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED90231-ND	9.57	66.38	536.13	117-43-652-41-005000
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED90232-ND	10.28	71.27	575.61	117-43-656-41-005000
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED90233-ND	11.69	81.02	654.36	117-43-664-41-005000
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED90235-ND	12.39	85.88	693.63	117-43-668-41-005000
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED90234-ND	11.69	81.02	654.36	117-43-764-41-005000

Dual-In-Line Sockets – Surface Mount, Stub Tail, Closed Frame

- Closed frame insulator is vision system compatible • High-temp Nylon 46, suitable for infra-red and vapor phase soldering

Plating: Sleeve (Pin) – 200μ" Sn/Pb; Contact (Clip) – 200μ" Sn/Pb
(RoHS Compliant: 200μ" Sn Sleeve and Contact)

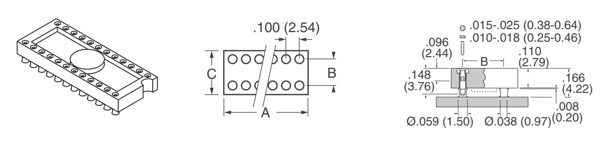

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
Vacuum Pads Top Surface Only									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED2128-ND	.75	6.50	52.50	225.00	214-99-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2129-ND	1.31	11.39	91.98	394.20	214-99-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2130-ND	1.50	13.00	105.00	450.00	214-99-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2131-ND	1.69	14.64	118.23	506.70	214-99-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2132-ND	2.16	18.72	151.20	648.00	214-99-320-01-670800
Vacuum Pads Top Surface Only — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90236-ND	1.15	9.96	80.43	344.70	214-44-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90237-ND	1.74	15.05	121.59	521.10	214-44-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90238-ND	1.93	16.74	135.24	579.60	214-44-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90239-ND	2.13	18.46	149.10	639.00	214-44-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90240-ND	2.25	19.47	157.29	674.10	214-44-320-01-670800
Vacuum Pads Top and Bottom									
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2133-ND	2.16	18.72	151.20	648.00	214-99-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2134-ND	2.52	21.84	176.40	756.00	214-99-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED2135-ND	2.88	24.96	201.60	864.00	214-99-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2136-ND	3.45	29.90	241.50	1035.00	214-99-640-01-670800
Vacuum Pads Top and Bottom — RoHS Compliant									
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90241-ND	2.63	22.75	183.75	787.50	214-44-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90242-ND	3.00	26.03	210.21	900.90	214-44-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90243-ND	3.38	29.28	236.46	1013.40	214-44-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90244-ND	3.98	34.45	278.25	1192.50	214-44-640-01-670800

In-Line Sockets and Headers - Solder Tail and Solderless

Dimensions in Inches (mm)

Fig. 1

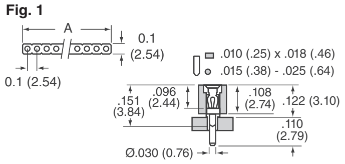

Fig. 2

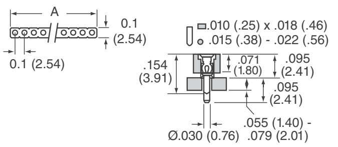

Fig. 3

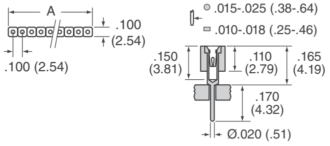

Fig. 4

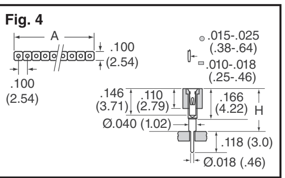

Fig. 5

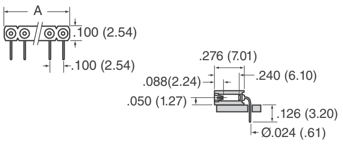

Fig. 6

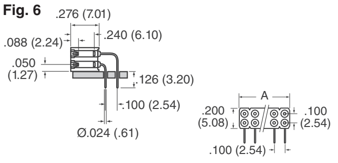

Fig. 7

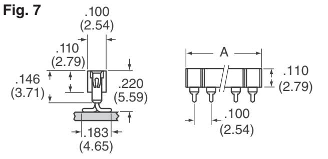

Fig. 8

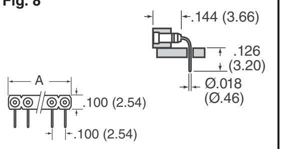

Fig. 9

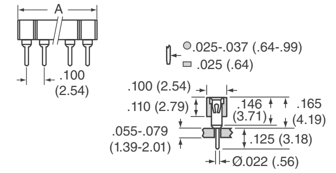

Fig. 10

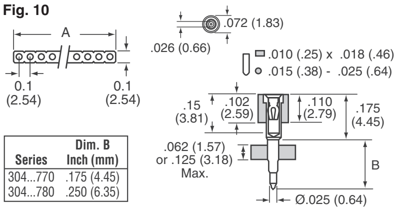

Series	Dim. B Inch (mm)
304...770	.175 (4.45)
304...780	.250 (6.35)

Fig. 11

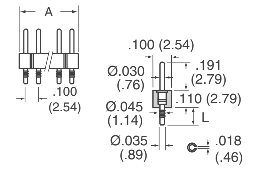

Fig. 12

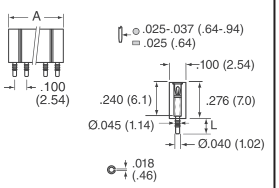

Fig. 13

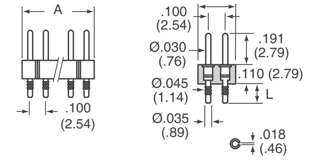

Fig. 14

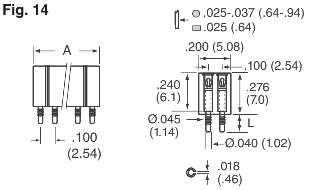

Fig. 15

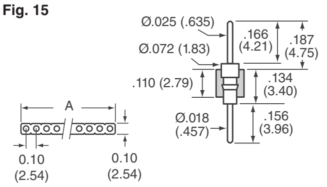

Fig. 16

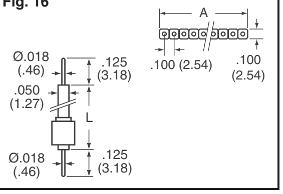

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
	Solder Tail Socket									
1	Very Low Profile, Series 315...01	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7864-ND	6.58	5.57	4.56	315-93-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7964-ND	6.79	5.75	4.70	315-93-164-41-003000
3	Single Row, Long Solder Tail, Series 311...01	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1064-ND	6.82	5.92	4.78	311-93-164-41-001000
4	Single Row, Series 316...01 H=.594 (15.09)	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1164-ND	13.22	11.46	9.26	316-93-164-41-001000
4	Single Row, Series 316...03 H=.315 (8.00)	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1264-ND	10.42	9.03	7.30	316-93-164-41-003000
4	Single Row, Series 316...06 H=.236 (5.99)	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1364-ND	9.71	8.42	6.80	316-93-164-41-006000
4	Single Row, Series 316...07 H=.402 (10.21)	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1464-ND	11.20	9.71	7.85	316-93-164-41-007000
4	Single Row, Series 316...08 H=.472 (11.99)	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED15064-ND	11.79	10.22	8.26	316-93-164-41-008000
5	Single Row, Right Angle .030" Diameter Pins	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED1450-ND	10.59	9.18	7.42	801-93-050-20-001000
6	Double Row, Right Angle .030" Diameter Pins	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED14100-ND	23.09	20.01	16.17	803-93-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED23064-ND	9.88	8.57	6.92	310-93-164-41-105000
8	Single Row, Series 399...03 Right Angle	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED22064-ND	10.69	9.27	7.49	399-93-164-10-003000
9	Single Row, Low Profile .030" Diameter Pins	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED2764-ND	8.92	7.74	6.25	801-93-064-10-002000
	Solder Tail Socket — RoHS Compliant									
1	Very Low Profile, Series 315...01	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90245-ND	6.93	5.87	4.80	315-43-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90246-ND	7.13	6.04	4.94	315-43-164-41-003000
3	Single Row, Long Solder Tail, Series 311...01	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90247-ND	7.18	6.23	5.03	311-43-164-41-001000
4	Single Row, Series 316...01 H=.594 (15.09)	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90248-ND	13.98	12.12	9.79	316-43-164-41-001000
4	Single Row, Series 316...03 H=.315 (8.00)	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90249-ND	11.00	9.53	7.70	316-43-164-41-003000
4	Single Row, Series 316...06 H=.236 (5.99)	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90250-ND	10.25	8.89	7.18	316-43-164-41-006000
4	Single Row, Series 316...07 H=.402 (10.21)	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90251-ND	11.83	10.25	8.28	316-43-164-41-007000
4	Single Row, Series 316...08 H=.472 (11.99)	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90252-ND	12.45	10.79	8.72	316-43-164-41-008000
5	Single Row, Right Angle .030" Diameter Pins	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90253-ND	11.14	9.66	7.80	801-43-050-20-001000
6	Double Row, Right Angle .030" Diameter Pins	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90254-ND	24.39	21.14	17.08	803-43-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90255-ND	10.46	9.07	7.33	310-43-164-41-105000
8	Single Row, Series 399...03 Right Angle	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90256-ND	11.27	9.77	7.89	399-43-164-10-003000
9	Single Row, Low Profile .030" Diameter Pins	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90257-ND	9.26	8.03	6.48	801-43-064-10-002000
	Solderless Press-Fit Header/Socket									
10	Solderless Press-Fit Socket, Series 304...770	64	6.4 (162.56)	10µ" Au	30µ" Au	ED8064-ND◆	11.17	9.46	7.74	304-13-164-41-770000
10	Solderless Press-Fit Socket, Series 304...780	64	6.4 (162.56)	10µ" Au	30µ" Au	ED8164-ND◆	12.03	10.18	8.33	304-13-164-41-780000
11	Single Row Header Compliant Tail L=.104 (2.64)	64	6.4 (162.56)	10µ" Au	—	ED2864-ND◆	12.62	10.94	8.84	800-10-064-61-001000
11	Single Row Header Compliant Tail L=.143 (3.63)	64	6.4 (162.56)	10µ" Au	—	ED2964-ND◆	12.10	10.49	8.47	800-10-064-62-001000
12	Single Row Socket Compliant Tail L=.104 (2.64)	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED15050-ND	12.29	10.65	8.61	801-93-050-61-001000
12	Single Row Socket Compliant Tail L=.104 (2.64)	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90258-ND◆	12.79	11.09	8.96	801-43-050-61-001000
12	Single Row Socket Compliant Tail L=.143 (3.63)	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED1650-ND	12.61	10.93	8.83	801-93-050-62-001000
12	Single Row Socket Compliant Tail L=.143 (3.63)	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90259-ND◆	13.16	11.41	9.22	801-43-050-62-001000
13	Double Row Header Compliant Tail L=.104 (2.64)	2 x 32	3.2 (81.28)	10µ" Au	—	ED3064-ND◆	12.62	10.94	8.84	802-10-064-61-001000
13	Double Row Header Compliant Tail L=.143 (3.63)	2 x 32	3.2 (81.28)	10µ" Au	—	ED3164-ND◆	12.10	10.49	8.47	802-10-064-62-001000
14	Double Row Socket Compliant Tail L=.104 (2.64)	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED15100-ND	21.72	18.83	15.21	803-93-100-61-001000
14	Double Row Socket Compliant Tail L=.104 (2.64)	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90260-ND◆	22.57	19.57	15.81	803-43-100-61-001000
14	Double Row Socket Compliant Tail L=.143 (3.63)	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED16100-ND	22.03	19.09	15.42	803-93-100-62-001000
14	Double Row Socket Compliant Tail L=.143 (3.63)	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90261-ND◆	22.91	19.86	16.04	803-43-100-62-001000
	Solder Tail Header Strip — RoHS Compliant									
15	Pin/Solder Tail Header Strip, Series 350	64	6.4 (162.56)	10µ" Au	—	ED7764-ND	9.89	8.37	6.85	350-10-164-00-001000
16	Single Row, .018/.018 Pin L=.210 (5.33)	64	6.4 (162.56)	10µ" Au	—	ED16064-ND	10.02	8.69	7.02	342-10-164-00-591000
16	Single Row, .018/.018 Pin L=.335 (8.51)	64	6.4 (162.56)	10µ" Au	—	ED17064-ND	11.56	10.02	8.09	342-10-164-00-592000
16	Single Row, .018/.018 Pin L=.585 (14.86)	64	6.4 (162.56)	10µ" Au	—	ED18064-ND	17.24	14.94	12.07	342-10-164-00-593000
16	Single Row, .018/.018 Pin L=.835 (21.21)	64	6.4 (162.56)	10µ" Au	—	ED19064-ND	23.85	20.68	16.70	342-10-164-00-594000
17	Single Row, Series 350...06 Straight	64	6.4 (162.56)	10µ" Au	—	ED2064-ND	8.26	7.16	5.79	350-10-164-00-006000
18	Single Row, Series 399, 90° Right Angle	64	6.4 (162.56)	10µ" Au	—	ED2164-ND	11.41	9.89	7.99	399-10-164-10-009000
19	Single Row, .189 (4.80) Surface Mount Header	64	6.4 (162.56)	10µ" Au	—	ED24064-ND	11.06	9.59	7.75	350-10-164-00-106000
20	Single Row, Right Angle .030" Diameter Pins	64	6.4 (162.56)	10µ" Au	—	ED2564-ND	9.90	8.58	6.93	800-10-064-20-001000

◆ ***RoHS Compliant***

(Continued)

In-Line Sockets and Headers – Solder Tail and Solderless *(Cont.)*

Dimensions in Inches (mm)

Fig. 17

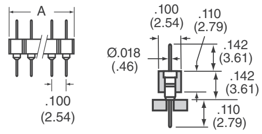

Fig. 18

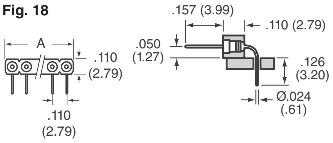

Fig. 19

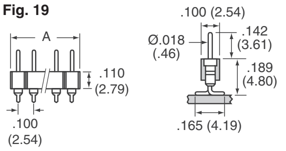

Fig. 20

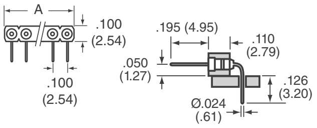

Fig. 21

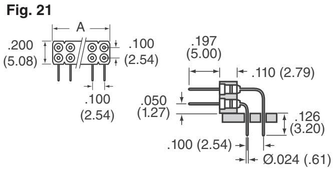

Fig. 22

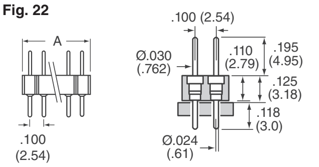

Fig. 23

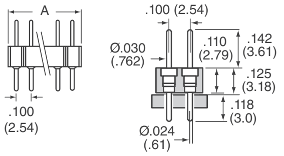

Fig. 24

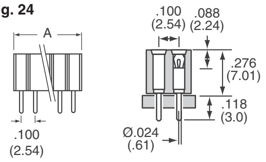

Fig. 25

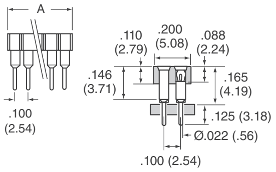

Fig. 26

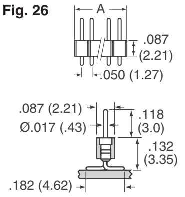

Fig. 27

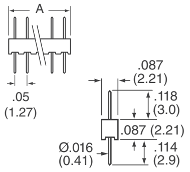

Fig. 28

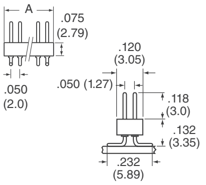

Fig. 29

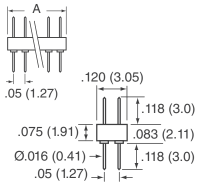

Fig. 30

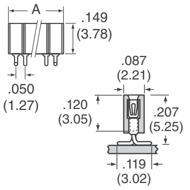

Fig. 31

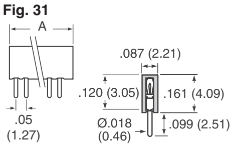

Fig. 32

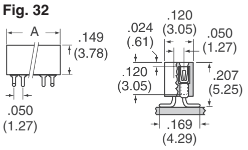

Fig. 33

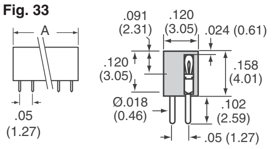

Fig. 34

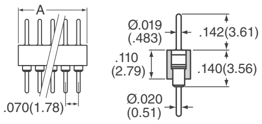

Fig. 35

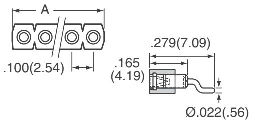

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
21	Double Row, Right Angle .030” Diameter Pins	2 x 32	3.2 (81.28)	10µ” Au	—	ED2664-ND	16.82	14.59	11.78	802-10-064-20-001000
	Interconnects, .100” (2.54mm) Grid									
22	Double Row, Pin Header, Straight Solder Tail	2 x 32	3.2 (81.28)	10µ” Au	—	ED9464-ND◆	9.53	8.07	6.60	802-10-064-10-001000
23	Double Row, Low Profile Pin Header	2 x 32	3.2 (81.28)	10µ” Au	—	ED9564-ND◆	9.06	7.67	6.28	802-10-064-10-002000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6 (91.44)	200µ” Sn/Pb	30µ” Au	ED9672-ND	11.80	9.99	8.17	803-93-072-10-001000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6 (91.44)	200µ” Sn	30µ” Au	ED90262-ND◆	12.33	10.44	8.54	803-43-072-10-001000
25	Double Row, Low Profile Socket	2 x 36	3.6 (91.44)	200µ” Sn/Pb	30µ” Au	ED9772-ND	10.86	9.20	7.52	803-93-072-10-002000
25	Double Row, Low Profile Socket	2 x 36	3.6 (91.44)	200µ” Sn	30µ” Au	ED90263-ND◆	11.27	9.54	7.81	803-43-072-10-002000
	Interconnects, .050” (1.27mm) Grid									
26	Single Row, .132 (3.35) SMT Header	50	2.515 (50 x .050 + .015)	10µ” Au	—	ED1050-ND◆	12.94	11.22	9.06	850-10-050-30-001000
27	Single Row, .087 (2.21) Profile Pin Header	50	2.515 (50 x .050 + .015)	10µ” Au	—	ED8250-ND◆	7.87	6.67	5.45	850-10-050-10-001000
28	Double Row, .132 (3.35) SMT Header	2 x 50	2.515 (50 x .050 + .015)	10µ” Au	—	ED10100-ND◆	16.54	14.34	11.58	852-10-100-30-001000
29	Double Row, .075 (1.91) Profile Pin Header	2 x 50	2.515 (50 x .050 + .015)	10µ” Au	—	ED83100-ND◆	14.64	12.39	10.14	852-10-100-10-001000
30	Single Row, .207 (5.26) SMT Socket	50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED1150-ND	14.38	12.47	10.07	851-93-050-30-001000
30	Single Row, .207 (5.26) SMT Socket	50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90264-ND◆	15.32	13.28	10.73	851-43-050-30-001000
31	Single Row, .161 (4.09) Profile Socket	50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED8450-ND	10.45	8.85	7.24	851-93-050-10-001000
31	Single Row, .161 (4.09) Profile Socket	50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90265-ND◆	11.01	9.32	7.63	851-43-050-10-001000
32	Double Row, .207 (5.26) SMT Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED11100-ND	21.69	18.81	15.19	853-93-100-30-001000
32	Double Row, .207 (5.26) SMT Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90266-ND◆	22.97	19.91	16.08	853-43-100-30-001000
33	Double Row, .161 (4.09) Profile Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED85100-ND	19.46	16.47	13.48	853-93-100-10-001000
33	Double Row, .161 (4.09) Profile Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90267-ND◆	20.51	17.36	14.21	853-43-100-10-001000
	Interconnect Header, .070” (1.78mm) Grid — RoHS Compliant									
34	Single Row, Solder Tail	21	1.47 (37.34)	200µ” Sn/100µ” Ni	—	ED90309-ND	3.68	3.19	2.58	862-40-021-00-180000
	Right Angle Interconnect Sockets, .100” (2.54mm) Grid — RoHS Compliant									
35	Single Row, .030 (0.76) Diameter Pins SMT	2	0.2 (5.08)	200µ” Sn	30µ” Au	ED90300-ND	2.06	1.75	1.43	801-43-002-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	3	0.3 (7.62)	200µ” Sn	30µ” Au	ED90301-ND	2.73	2.31	1.89	801-43-003-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	4	0.4 (10.16)	200µ” Sn	30µ” Au	ED90302-ND	2.90	2.46	2.01	801-43-004-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	5	0.5 (12.70)	200µ” Sn	30µ” Au	ED90303-ND	3.31	2.80	2.29	801-43-005-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	6	0.6 (15.24)	200µ” Sn	30µ” Au	ED90304-ND	3.73	3.16	2.59	801-43-006-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	7	0.7 (17.78)	200µ” Sn	30µ” Au	ED90305-ND	4.11	3.48	2.85	801-43-007-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	8	0.8 (20.32)	200µ” Sn	30µ” Au	ED90306-ND	4.27	3.62	2.96	801-43-008-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	9	0.9 (22.86)	200µ” Sn	30µ” Au	ED90307-ND	4.68	3.97	3.25	801-43-009-40-002000
35	Single Row, .030 (0.76) Diameter Pins SMT	10	1.0 (25.40)	200µ” Sn	30µ” Au	ED90308-ND	4.78	4.05	3.31	801-43-010-40-002000
	Right Angle Interconnects, .050” (1.27mm) Grid, Solder Tail									
36	Single Row, Pin Header	50	2.515 (50 x .050 + .015)	10µ” Au	—	ED8650-ND◆	13.35	11.30	9.25	850-10-050-20-001000
37	Double Row, Pin Header	2 x 50	2.515 (50 x .050 + .015)	10µ” Au	—	ED87100-ND◆	19.70	16.67	13.64	852-10-100-20-001000
38	Single Row, Socket	4	0.215 (4 x .050 + .015)	200µ” Sn	30µ” Au	ED90474-ND◆ ***NEW!***	1.60	1.44	1.18	851-43-004-20-001000
38	Single Row, Socket	50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED8850-ND	13.77	11.66	9.54	851-93-050-20-001000
38	Single Row, Socket	50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90278-ND◆	14.59	12.35	10.11	851-43-050-20-001000
39	Double Row, Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn/Pb	30µ” Au	ED89100-ND	24.78	20.97	17.16	853-93-100-20-001000
39	Double Row, Socket	2 x 50	2.515 (50 x .050 + .015)	200µ” Sn	30µ” Au	ED90268-ND◆	26.23	22.20	18.16	853-43-100-20-001000
	Interconnects, 2mm Grid									
40	Single Row, .189 (4.80) SMT Header	50	3.94 (100.00)	10µ” Au	—	ED1250-ND◆	12.39	10.74	8.68	830-10-050-30-001000
41	Single Row Pin Header	50	3.94 (100.00)	10µ” Au	—	ED9050-ND◆	8.80	7.45	6.10	830-10-050-10-001000
42	Double Row, .189 (4.80) SMT Header	2 x 50	3.94 (100.00)	10µ” Au	—	ED12100-ND◆	20.81	18.04	14.57	832-10-100-30-001000
43	Double Row Pin Header	2 x 50	3.94 (100.00)	10µ” Au	—	ED91100-ND◆	16.38	13.86	11.34	832-10-100-10-001000
44	Single Row, .228 (5.79) SMT Socket	50	3.94 (100.00)	200µ” Sn/Pb	30µ” Au	ED1350-ND	10.61	9.20	7.43	831-93-050-30-001000
44	Single Row, .228 (5.79) SMT Socket	50	3.94 (100.00)	200µ” Sn	30µ” Au	ED90269-ND◆	11.24	9.74	7.87	831-43-050-30-001000
45	Single Row Socket	50	3.94 (100.00)	200µ” Sn/Pb	30µ” Au	ED9250-ND	7.40	6.26	5.13	831-93-050-10-001000
45	Single Row Socket	50	3.94 (100.00)	200µ” Sn	30µ” Au	ED90270-ND◆	7.72	6.53	5.35	831-43-050-10-001000
46	Double Row, .228 (5.79) SMT Socket	2 x 50	3.94 (100.00)	200µ” Sn/Pb	30µ” Au	ED13100-ND	20.06	17.39	14.05	833-93-100-30-001000
46	Double Row, .228 (5.79) SMT Socket	2 x 50	3.94 (100.00)	200µ” Sn	30µ” Au	ED90271-ND◆	21.27	18.44	14.89	833-43-100-30-001000
47	Double Row Socket	2 x 50	3.94 (100.00)	200µ” Sn/Pb	30µ” Au	ED93100-ND	13.29	11.25	9.21	833-93-100-10-001000
47	Double Row Socket	2 x 50	3.94 (100.00)	200µ” Sn	30µ” Au	ED90272-ND◆	13.85	11.73	9.59	833-43-100-10-001000
	OFP® Pass Thru Sockets .100” (2.54mm) for .030” Round Pins and .025” Square Pins — RoHS Compliant									
48	Single Row Socket	64	6.4 (162.56)	200µ” Sn	30µ” Au	ED90286-ND	16.93	14.68	11.86	834-43-064-10-001000
49	Double Row Socket	2 x 36	3.6 (91.44)	200µ” Sn	30µ” Au	ED90287-ND	19.03	16.50	13.33	835-43-072-10-001000

◆ ***RoHS Compliant***

(Continued)

Dimensions in Inches (mm)

Fig. 36

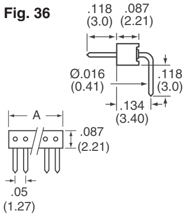

Fig. 37

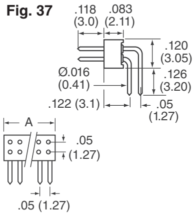

Fig. 38

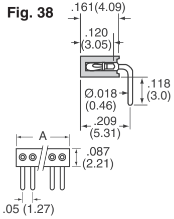

Fig. 39

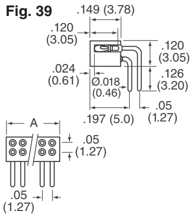

Fig. 40

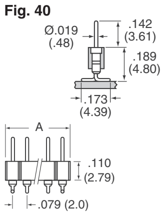

Fig. 41

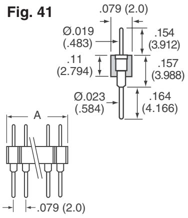

Fig. 42

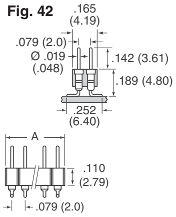

Fig. 43

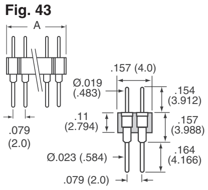

Fig. 44

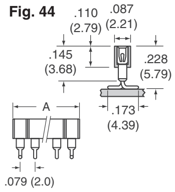

Fig. 45

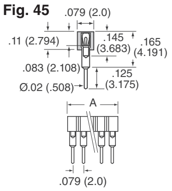

Fig. 46

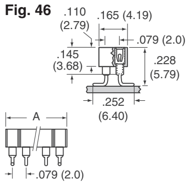

Fig. 47

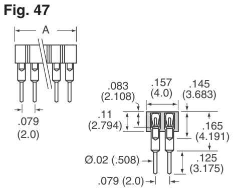

Fig. 48

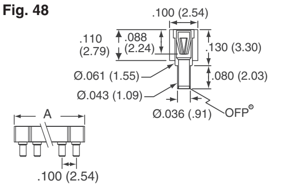

Fig. 49

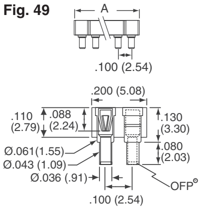

Fig. 50

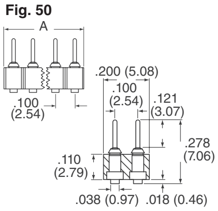

Fig. 51

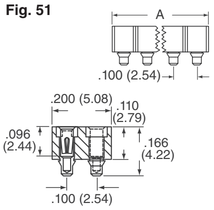

Fig. 52

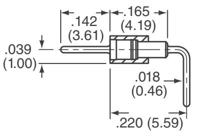

Fig. 53

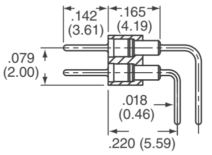

Fig. 54

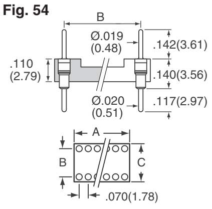

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating		Digi-Key Part No.	Price Each			Mill-Max Part No.
				Sleeve/Pin	Contact/Clip		1	10	100	
			Vertical Surface Mount Interconnect Header, .100” (2.54mm) Grid — RoHS Compliant							
50	Double Row Header, Stub Tail	72	0.142 (3.6)	10µ” Au	100µ” Ni	ED90398-ND	18.76	16.26	13.14	429-10-272-00-560000
			Surface Mount Interconnect Socket, .100” (2.54mm) Grid — RoHS Compliant							
51	Double Row Socket, Stub Tail	72	0.142 (3.6)	200µ” Sn	30µ” Au	ED90397-ND	19.41	13.46	10.87	414-43-272-41-117000
			Right Angle Interconnect Headers, .079” (2mm) Grid — RoHS Compliant							
52	Single Row Header	50	—	10µ” Au	—	ED90394-ND	22.98	19.92	16.09	830-10-050-20-001000
53	Double Row Header	2 x 50	—	10µ” Au	—	ED90395-ND	22.24	19.28	15.57	832-10-100-20-001000
			Right Angle Interconnect Sockets, .079” (2mm) Grid — RoHS Compliant							
52	Single Row Socket	50	—	200µ” Sn	30µ” Au	ED90393-ND	22.10	15.33	12.38	831-43-050-20-001000
53	Double Row Socket	2 x 50	—	200µ” Sn	30µ” Au	ED90396-ND	37.53	26.03	21.02	833-43-100-20-001000

◆ ***RoHS Compliant***

Fig.	No. of Pins	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each			Mill-Max Part No.
		A	B	C		1	10	100	
			Solder Tail Shrink Dip Header .070” (1.78mm) — RoHS Compliant						
54	16	.572 (14.53)	.300 (7.62)	.390 (9.91)	ED90288-ND	3.66	3.18	2.57	162-40-316-00-180000
	28	.992 (25.20)	.400 (10.16)	.490 (12.45)	ED90289-ND	4.49	3.90	3.15	162-40-428-00-180000
	30	1.062 (26.97)	.400 (10.16)	.490 (12.45)	ED90290-ND	4.79	4.15	3.36	162-40-430-00-180000
	48	1.692 (42.98)	.400 (10.16)	.690 (17.53)	ED90291-ND	7.15	6.20	5.01	162-40-448-00-180000
	20	.712 (18.08)	.600 (15.24)	.690 (17.53)	ED90292-ND	3.31	2.87	2.32	162-40-620-00-180000
	28	.992 (25.20)	.600 (15.24)	.690 (17.53)	ED90293-ND	4.49	3.90	3.15	162-40-628-00-180000
	40	1.412 (35.86)	.600 (15.24)	.690 (17.53)	ED90294-ND	6.02	5.22	4.22	162-40-640-00-180000
	42	1.482 (37.64)	.600 (15.24)	.690 (17.53)	ED90311-ND	6.30	5.46	4.41	162-40-642-00-180000
	48	1.692 (42.98)	.600 (15.24)	.690 (17.53)	ED90295-ND	7.15	6.20	5.01	162-40-648-00-180000
	52	1.832 (46.53)	.600 (15.24)	.690 (17.53)	ED90296-ND	7.72	6.69	5.41	162-40-652-00-180000
	56	1.972 (50.09)	.600 (15.24)	.690 (17.53)	ED90297-ND	8.28	7.18	5.80	162-40-656-00-180000
	64	2.252 (57.20)	.600 (15.24)	.690 (17.53)	ED90298-ND	9.41	8.16	6.59	162-40-664-00-180000
	68	2.392 (60.76)	.600 (15.24)	.690 (17.53)	ED90299-ND	9.98	8.65	6.99	162-40-668-00-180000

Universal Serial Bus Connectors

USB Connectors Features: • USB receptacles for thru-hole and surface mount • Plug retention tabs • Kinked locating legs for secure PCB retention • Fully compatible with USB 1.0 specification • Passes 16MHz Signal Attenuation per ASTM-D-4566 **Material Specifications:** • Shell and Contact: Copper alloy • Shell Finish: Tin/lead over copper • Contact Finish: 30µ selective gold, tin/lead tail • Housing: Glass filled thermoplastic rated UL 94V-0 **Ratings:** • Voltage: 30VAC (rms) • Current: 1A maximum per contact for 30°C temperature rise. Thru-hole housings rated at 130°C for wave soldering. SMT housing rated at 240°C for reflow soldering **Electrical:** • Contact Resistance: 30mW maximum • Insulation Resistance: 1000mΩ minimum • Dielectric Withstanding Voltage: 750VAC at sea level • Capacitance: 2pF maximum

Mini USB Connectors Features: • Mini USB receptacles for surface mount • 5-Pin (one ID Pin), 0.8mm pitch • Reduced mounting space • Fully compatible with USB 2.0 specifications • Smaller and lighter than existing USB connectors for portable and handheld devices **Material Specifications:** • Shell and Contact: Copper alloy • Shell Finish: Tin over copper • Contact Finish: 30µ” selective gold, tin/copper tail • Housing: High temperature thermoplastic rated UL 94V-0 **Ratings:** • Voltage: 30VAC (rms) • Current: 1A maximum per contact for 30°C temperature rise. All housing materials rated for “lead-free” soldering up to 260°C. **Electrical:** • Contact Resistance: 50mΩ maximum • Insulation Resistance: 100MΩ minimum • Dielectric Withstanding Voltage: 100VAC at sea level • Capacitance: 2pF maximum

Dim. in Inches (mm)

Fig. 1

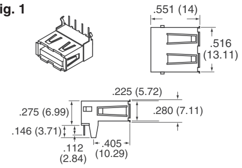

Fig. 2

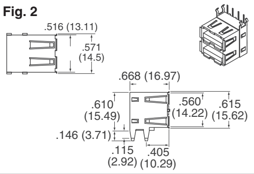

Fig. 3

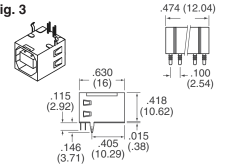

Fig. 4

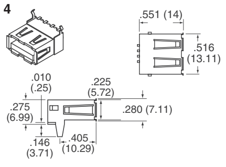

Fig. 5

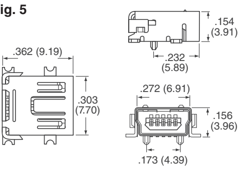

Fig.	Description	Digi-Key Part No.	Price Each					Digi-Key Part No.	Tape and Reel Pricing 700	Mill-Max Part No.
			1	10	100	500	1,000			
1	Type A Receptacle, Single, Thru Hole	ED90062-ND	1.59	1.35	1.10	.81	.69	—	—	896-43-004-90-000000
2	Type A Receptacle, Double, Thru Hole	ED90063-ND	2.53	2.14	1.75	1.29	1.09	—	—	896-43-008-90-000000
3	Type B Receptacle, Single, Thru Hole	ED90064-ND	1.37	1.17	.95	.71	.60	—	—	897-43-004-90-000000
4	Type A Receptacle, Single, SMT	ED90065-ND	1.59	1.35	1.10	.81	.69	—	—	896-43-004-00-000000
5	Mini USB Type A Receptacle, Single, SMT	ED90342CT-ND†	—	1.08	.89	.70	—	ED90342TR-ND	441.00	896-43-005-00-100001
5	Mini USB Type B Receptacle, Single, SMT	ED90341CT-ND†	—	.96	.79	.62	—	ED90341TR-ND	391.65	897-43-005-00-100001

† Cut Tape

Single In-Line Strip Sockets – Solder Tail and Solderless

MATERIALS:
• **Insulator Body:** Glass filled thermoplastic polyester, self-extinguishing rated UL 94V-0; color black; resistant against detergents, mineral acids, solvents, greases and oils (short time) • **Receptacle (sleeve):** Screw machined brass, plated 200µ" tin-lead; (RoHS Compliant: 200µ" tin) • **Pin:** Screw machined brass with 10µ" gold plating • **Contact:** Stamped beryllium-copper, plated 30µ" gold • **Mechanical Life:** 100 cycles minimum
ELECTRICAL DATA:
• **Rated Current:** 1A (Series 70, 74); 3A (62, 71, 72, 75, 76) 4.5A (63, 65) • **Rated Voltage:** 100 VRMS/150VDC • **Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Strength:** 1000 VRMS minimum • **Maximum Capacitance:** .8pF (Series 70, 74); 1pF (Series 71, 72, 75, 76)
ENVIRONMENTAL DATA:
• **Operating Temperature Range:** -55°C ~ 125°C • **Vibration:** 10-2000Hz, 15G • **Shock (no elect. discontinuity greater than 1µs):** 50G

Fig. 1 – Standard Solder Tail

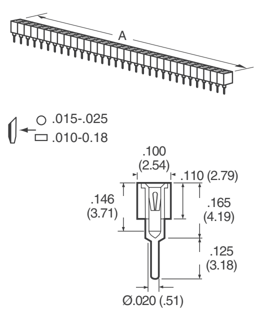

Fig. 2 – Low Profile Socket

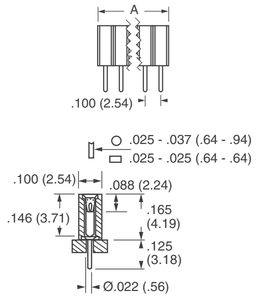

Fig. 3 – Socket Strip

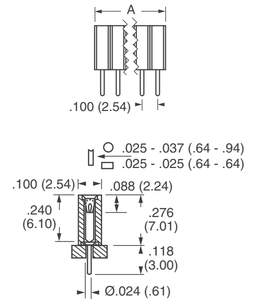

Fig. 4 – Low Profile Pin Header

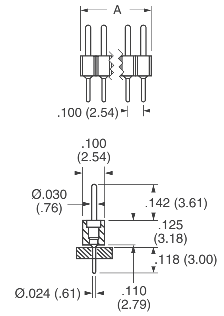

Fig. 5 – Pin Header Strip

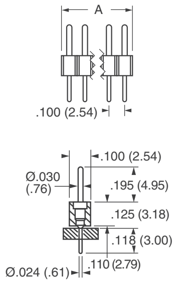

Ø.028-.035 (.71-.89) hole

Fig.	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Clip	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.	Digi-Key Part No.	Base Price	Pin Adder
Strip Sockets, Solder Tail												
1	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7064-ND	4.56	40.80	336.00	310-93-164-41-001000	ED70xx-ND	1.05	.06
	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED6264-ND◆	4.56	40.80	336.00	310-43-164-41-001000	ED62xx-ND◆	1.05	.06
Single Row Sockets, Straight Solder Tail — RoHS Compliant												
1	64	6.4 (162.56)	10µ" Au	30µ" Au	ED7464-ND	7.35	65.74	541.38	310-13-164-41-001000	ED74xx-ND	1.49	.10
Single Row Sockets, Low Profile												
2	36	3.6 (91.44)	200µ" Sn/Pb	30µ" Au	ED7636-ND	4.94	44.22	364.14	801-93-036-10-012000	ED76xx-ND	1.04	.12
	36	3.6 (91.44)	200µ" Sn	30µ" Au	ED6536-ND◆	5.19	46.41	382.20	801-43-036-10-012000	ED65xx-ND◆	.95	.13
Single Row Pin Sockets, Straight Solder Tail												
3	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED7150-ND	7.19	64.31	529.62	801-93-050-10-001000	ED71xx-ND	1.25	.13
	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED6350-ND◆	7.54	67.42	555.24	801-43-050-10-001000	ED63xx-ND◆	1.13	.14
Single Row Pin Headers, Low Profile — RoHS Compliant												
4	64	6.4 (162.56)	10µ" Au	—	ED7564-ND	7.86	70.33	579.18	800-10-064-10-002000	ED75xx-ND	1.40	.11
Single Row Pin Headers, Straight Solder Tail — RoHS Compliant												
5	64	6.4 (162.56)	10µ" Au	—	ED7264-ND	8.27	74.03	609.63	800-10-064-10-001000	ED72xx-ND	1.21	.12

◆ *RoHS Compliant*

Single In-Line Sockets – Solderless Press Fit, Compliant Tail

Features:
Unique compliant tail pins conforms to .040" ±.003" (1.02mm ±.08mm) finished hole diameter without stressing inner layers.

Application of Compliant Tail Pins:
Mill-Max's patented (Patent No. 4,799,904) compliant tail features precision machined pins that are hollow and slotted to conform to a .040" ±.003" (1.02mm ±.08mm) diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering, and since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

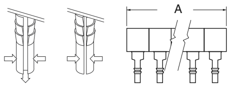

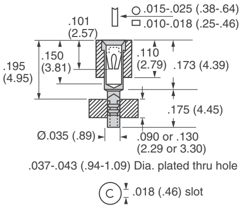

No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Clip	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.	Digi-Key Part No.	Base Price	Pin Adder
64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7364-ND	8.89	79.56	655.20	346-93-164-41-013000	ED73xx-ND	1.86	.12
	6.4 (162.56)	200µ" Sn	30µ" Au	ED6464-ND◆	9.21	82.37	678.30	346-43-164-41-013000	ED64xx-ND◆	1.57	.13

◆ *RoHS Compliant*

HOW TO ORDER — 4 EASY STEPS

How do I order an ED70xx header with 36 pins? Call Digi-Key for pricing, or determine the cost yourself, following the steps below.

ED □□□□ - ND
Series
Number of Desired Pins

How to Order — In 4 Easy Steps	*Our Example*	*Your Digi-Key Part Number*
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED7036-ND	ED _ _ _ _-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)	1.05	____
Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart)	36 x .06 = 2.16	__ x __ = ___
Step 4. Add Step 2 & Step 3 together for Final Cost!	Your Cost = $3.21	Your Cost = $___

***Note:* For quantities of 10 or more, call Digi-Key.**

MILL-MAX Pin Receptacles and P.C. Pins

Fig. 1
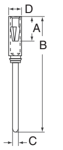

Fig. 2 **NEW!**
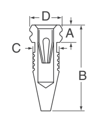

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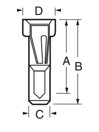

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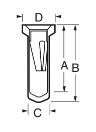

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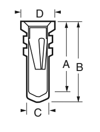

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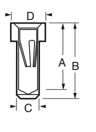

Fig. 7
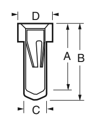

Fig. 8
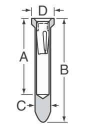

Fig. 9
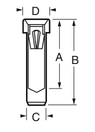

Fig. 10
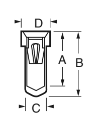

Fig. 11
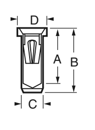

Fig. 12
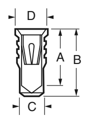

Fig. 13
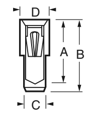

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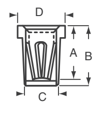

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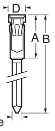

Fig. 16
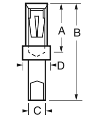

Fig. 17
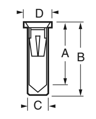

Fig. 18
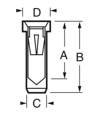

Fig. 19
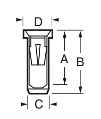

Fig. 20 **NEW!**
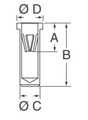

Fig. 21
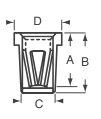

Fig. 22
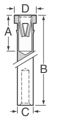

Fig. 23
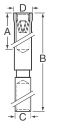

Fig. 24
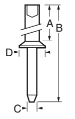

Fig. 25
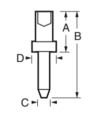

Fig. 26
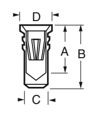

Fig. 27
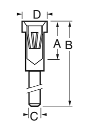

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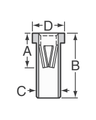

Fig. 29
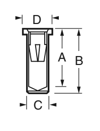

Fig. 30
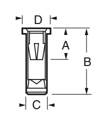

Fig. 31
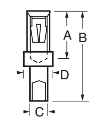

Fig. 32
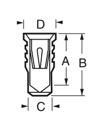

Fig. 33
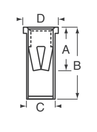

Fig. 34
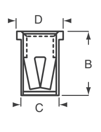

Fig. 35
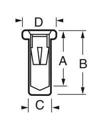

Fig. 36
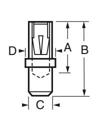

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	øC	øD		10	100	1,000
Pin Receptacles									
.008" ~ .013" (.20 mm ~ .33 mm) Pin Diameter — RoHS Compliant									
1	.024 (0.61)/ .027 (0.69)◊	.053 (1.35)	.250 (6.35)	.012 (.30)	.026 (.66)	ED5062-ND	18.51	138.84	925.60
NEW! .010" ~ .017" (.25mm ~ .43mm) Pin Diameter — RoHS Compliant NEW!									
2	.041 (1.04)/ .044 (1.12)◊	.030 (0.76)	.155 (3.94)	.045(1.14)	.055 (1.40)	ED90437-ND	4.22	31.68	211.20
.015" ~ .022" (.38mm ~ .53mm) Pin Diameter									
3	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED5036-ND	2.53	18.99	126.60
	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED90094-ND◆	2.88	21.60	144.00
4	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED5037-ND	1.04	7.80	52.00
	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5038-ND	1.06	7.92	52.80
	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED90095-ND◆	2.53	18.99	126.60
	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90096-ND◆	1.39	10.44	69.60
5	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED5039-ND	1.89	14.16	94.40
	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5040-ND	1.92	14.40	96.00
	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED90097-ND◆	3.41	25.56	170.40
	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90098-ND◆	3.47	26.04	173.60
6	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED5046-ND	2.37	17.79	118.60
	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED90104-ND◆	2.72	20.40	136.00
7	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED5041-ND	2.82	21.18	141.20
	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED90099-ND◆	3.20	23.97	159.80
8	.040 (1.02)	.195 (4.95)	.234 (5.94)	.038 (0.97)	.055 (1.40)	ED90329-ND◆	3.28	24.57	163.80
	.040 (1.02)	.195 (4.95)	.295 (7.49)	.038 (0.97)	.055 (1.40)	ED90330-ND◆	3.39	25.41	169.40
.015" ~ .025" (.38mm ~ .64mm) Pin Diameter									
9	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED5045-ND	2.63	19.74	131.60
	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED90103-ND◆	4.52	33.93	226.20
10	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED5042-ND	3.02	22.68	151.20
	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED90100-ND◆	3.54	26.52	176.80
	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED90451-ND◆✔	3.54	26.52	176.80
11	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED5044-ND	1.42	10.68	71.20
	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED90102-ND◆	1.95	14.61	97.40
12	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED5004-ND	1.97	14.76	98.40
	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED90069-ND◆	3.72	27.87	185.80
13	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.078 (1.98)	ED5043-ND	1.67	12.54	83.60
	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.078 (1.98)	ED90101-ND◆	2.32	17.40	116.00
14	.057 (1.45)	.089 (2.26)	.100 (2.54)	.043 (1.09)	.068 (1.73)	ED90282CT-ND◆*	11.33	84.96	566.40
	.057 (1.45)	.089 (2.26)	.100 (2.54)	.043 (1.09)	.068 (1.73)	ED90282TR-ND◆†	2336.40/5,500		
15	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED5001-ND	3.44	25.83	172.20
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED5002-ND	3.14	23.55	157.00
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED5003-ND	2.96	22.23	148.20
	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED90066-ND◆	4.56	34.20	228.00
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED90067-ND◆	4.11	30.81	205.40
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED90068-ND◆	3.84	28.80	192.00
.022" ~ .032" (.56mm ~ .81mm) Pin Diameter									
16	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED5015-ND	4.75	35.64	237.60
	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED90080-ND◆	7.06	52.98	353.20
17	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED90073-ND◆	5.09	38.19	254.60
	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED5008-ND	2.96	22.23	148.20
18	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED5006-ND	2.77	20.79	138.60
	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED90071-ND◆	4.96	37.20	248.00
19	.076 (1.93)	.185 (4.70)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED5007-ND	2.70	20.28	135.20
	.076 (1.93)	.185 (4.70)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED90072-ND◆	3.55	26.61	177.40
.022" ~ .034" (.56mm ~ .86mm) Pin Diameter — RoHS Compliant									
20	.062 (1.57)	.165 (4.19)	.190 (4.83)	.060 (1.52)	.078 (1.98)	ED90445-ND✔	3.84	28.83	192.20
21	.067 (1.70)	.089 (2.26)	.100 (2.54)	.056 (1.42)	.078 (1.98)	ED90283CT-ND*	11.99	89.91	599.40
	.067 (1.70)	.089 (2.26)	.100 (2.54)	.056 (1.42)	.078 (1.98)	ED90283TR-ND†	2697.30/6,000		
22	.067 (1.70)	.140 (3.56)	.352 (8.94)	.062 (1.57)	.085 (2.16)	ED90320-ND	6.82	51.12	340.80
23	18‡	.280 (7.11)	.665 (16.89)	.067 (1.70)	.075 (1.91)	ED90321-ND	11.27	84.51	563.40
.024" (.61mm) Pin Diameter — RoHS Compliant									
24	.035 (.89)	.047 (1.19)	.260 (6.60)	.024 (.61)	.060 (1.52)	ED5055-ND	1.92	14.40	96.00
	.035 (.89)	.078 (1.98)	.291 (7.39)	.024 (.61)	.060 (1.52)	ED5056-ND	2.00	15.00	100.00
25	.043 (1.09)	.076 (1.93)	.201 (5.11)	.024 (.61)	.062 (1.57)	ED5053-ND	1.89	14.16	94.40
	.043 (1.09)	.107 (2.72)	.232 (5.89)	.024 (.61)	.062 (1.57)	ED5054-ND	1.17	8.76	58.40
.025" ~ .037" (.64mm ~ .94mm) Pin Diameter									
26	.062 (1.57)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED5005-ND	3.02	22.68	151.20
	.062 (1.57)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED90070-ND◆	3.72	27.93	186.20
27	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED5009-ND	2.93	21.96	146.40
	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED5010-ND	4.18	31.38	209.20
	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED90074-ND◆	5.01	37.56	250.40
	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED90075-ND◆	5.16	38.67	257.80

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	øC	øD		10	100	1,000
28	.059 (1.49)/ .061 (1.54)◊	.083 (2.11)	.095 (2.41)	.056 (1.42)	.076 (1.93)	ED90331-ND◆	5.58	41.88	279.20
		.083 (2.11)	.105 (2.67)	.058 (1.47)	.076 (1.93)	ED90332-ND◆	5.60	41.97	279.80
		.083 (2.11)	.155 (3.94)	.058 (1.47)	.076 (1.93)	ED90333-ND◆	4.12	30.90	206.00
		.083 (2.11)	.155 (3.94)	.051 (1.30)	.076 (1.93)	ED90438-ND◆✔	3.64	27.30	182.00
.032" ~ .046" (.81mm ~ 1.17mm) Pin Diameter									
29	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.091 (2.31)	ED5016-ND	2.78	20.85	139.00
	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.091 (2.31)	ED90081-ND◆	3.70	27.78	185.20
	.075 (1.91)	.241 (6.12)	.270 (6.86)	.072 (1.83)	.091 (2.31)	ED90444-ND◆✔	3.59	26.94	179.60
	.075 (1.91)	.241 (6.12)	.270 (6.86)	.072 (1.83)	.091 (2.31)	ED90450-ND◆✔	5.65	42.39	282.60
30	.075 (1.91)	.123 (3.12)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED5018-ND	4.78	35.88	239.20
	.075 (1.91)	.123 (3.12)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED90083-ND◆	5.74	43.08	287.20
31	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED5021-ND	5.38	40.32	268.80
	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED90085-ND◆	8.14	61.08	407.20
32	.079 (2.01)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.091 (2.31)	ED5017-ND	3.21	24.09	160.60
	.079 (2.01)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.091 (2.31)	ED90082-ND◆	4.15	31.11	207.40
33	.077 (1.96)	.125 (3.18)	.206 (5.23)	.064 (1.63)	.090 (2.29)	ED90280-ND◆	7.54	56.55	377.00
34	.077 (1.96)	—	.140 (3.56)	.064 (1.63)	.090 (2.29)	ED90281CT-ND◆*	13.79	103.41	689.40
	.077 (1.96)	—	.140 (3.56)	.064 (1.63)	.090 (2.29)	ED90281TR-ND◆†	1034.10/2,000		
35	.091 (2.31)	.220 (5.59)	.253 (6.43)	.087 (2.21)	.120 (3.05)	ED5013-ND	3.69	27.69	184.60
	.091 (2.31)	.220 (5.59)	.253 (6.43)	.087 (2.21)	.120 (3.05)	ED90078-ND◆	6.22	46.68	311.20
36	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED5014-ND	6.26	46.98	313.20
	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED90079-ND◆	7.79	58.44	389.60
37	.087 (2.21)	.195 (4.95)	.236 (5.99)	.084 (2.13)	.126 (3.20)	ED5012-ND	4.81	36.09	240.60
	.087 (2.21)	.195 (4.95)	.236 (5.99)	.084 (2.13)	.126 (3.20)	ED90077-ND◆	6.03	45.24	301.60
38	.087 (2.21)	.130 (3.30)	.236 (5.99)	.084 (2.13)	.126 (3.20)	ED5011-ND	3.60	27.03	180.20
	.087 (2.21)	.130 (3.30)	.236 (5.99)	.084 (2.13)	.126 (3.20)	ED90076-ND◆	4.88	36.57	243.80
39	.090 (2.29)	.130 (3.30)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED5028-ND	4.82	36.15	241.00
	.090 (2.29)	.130 (3.30)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED90088-ND◆	6.22	46.62	310.80
40	20‡	.200 (5.08)	.530 (13.46)	.105 (2.67)	.102 (2.59)	ED90322-ND◆	11.31	84.84	565.60
41	.082 (2.08)	.220 (5.59)	.375 (9.52)	.030 (0.76)	.090 (2.29)	ED90326-ND◆	4.76	35.67	237.80
.037" ~ .043" (.94mm ~ 1.09mm) Pin Diameter									
42	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED5019-ND	2.78	20.85	139.00
	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED90084-ND◆	3.42	25.62	170.80
	.071 (1.80)	.147 (3.73)	.170 (4.32)	.069 (1.75)	.090 (2.29)	ED90447-ND◆✔	4.14	31.02	206.80
	.071 (1.80)	.147 (3.73)	.170 (4.32)	.069 (1.75)	.090 (2.29)	ED90452-ND◆✔	4.72	35.40	236.00
43	.071 (1.80)	.065 (1.65)	.120 (3.05)	.069 (1.75)	.091 (2.31)	ED90446-ND◆✔	4.40	33.03	220.20
44	.070 (1.78)	.083 (2.11)	.095 (2.41)	.068 (1.73)	.088 (2.24)	ED90327-ND◆	5.65	42.39	282.60
.040" ~ .050" (1.02mm ~ 1.27mm) Pin Diameter									
45	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED5024-ND	3.93	29.49	196.60
	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90087-ND◆	6.69	50.16	334.40
	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90439-ND◆✔	5.27	39.54	263.60
	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90440-ND◆✔	4.33	32.49	216.60
46	.104 (2.64)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.119 (3.02)	ED5023-ND	5.47	41.04	273.60
	.104 (2.64)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.119 (3.02)	ED90086-ND◆	6.97	52.29	348.60
47	.083 (2.11)	.093 (2.36)	.125 (3.18)	.068 (1.73)	.100 (2.54)	ED90285CT-ND◆*	14.10	105.78	705.20
	.083 (2.11)	.093 (2.36)	.125 (3.18)	.068 (1.73)	.100 (2.54)	ED90285TR-ND◆†	2380.05/4,500		
.040" (1.02mm) Pin Diameter									
48	.043 (1.09)	.071 (1.80)	.221 (5.61)	.040 (1.02)	.070 (1.78)	ED5047-ND	2.13	15.96	106.40
	.043 (1.09)	.102 (2.59)	.252 (6.40)	.040 (1.02)	.070 (1.78)	ED5048-ND	2.22	16.68	111.20
	.043 (1.09)	.102 (2.59)	.290 (7.37)	.040 (1.02)	.070 (1.78)	ED5050-ND	2.37	17.79	118.60
	.043 (1.09)	.102 (2.59)	.402 (10.21)	.040 (1.02)	.070 (1.78)	ED5052-ND	1.97	14.76	98.40
49	—	.282 (7.16)	.588 (14.94)	.040 (1.02)	.105 (2.67)	ED5061-ND◆	8.82	66.12	440.80
.043" (1.09mm) Pin Diameter — RoHS Compliant									
50	.043 (1.09)	.082 (2.08)	.257 (6.53)	.043 (1.09)	.070 (1.78)	ED5058-ND	4.59	34.44	229.60
.045" ~ .065" (1.14mm ~ 1.65mm) Pin Diameter — RoHS Compliant									
51	—	.400 (10.16)	.630 (16.00)	.108 (2.74)	.130 (3.30)	ED90279-ND	13.42	100.68	671.20
52	.102 (2.59)	.255 (6.48)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90443-ND✔	6.12	45.93	306.20
	.102 (2.59)	.255 (6.48)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90449-ND✔	7.71	57.84	385.60
.048" ~ .064" (1.22mm ~ 1.63mm) Pin Diameter									
53	.100 (2.54)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED5029-ND	4.60	34.50	230.00
	.100 (2.54)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED90089-ND◆	5.91	44.34	295.60
54	.102 (2.59)	.130 (3.30)	.293 (7.44)	.100 (2.54)	.115 (2.92)	ED90441-ND◆✔	6.12	45.87	305.80
	.102 (2.59)	.130 (3.30)	.293 (7.44)	.100 (2.54)	.115 (2.92)	ED90442-ND◆✔	4.78	35.88	239.20
	.102 (2.59)	.130 (3.30)	.293 (7.44)	.100 (2.54)	.115 (2.92)	ED90448-ND◆✔	7.74	58.05	387.00
55	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED5032-ND	10.53	78.96	526.40
	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED90091-ND◆	13.61	102.09	680.60
.065" ~ .082" (1.65mm ~ 2.08mm) Pin Diameter									
56	18‡	.375 (9.52)	.690 (17.53)	.100 (2.54)	.144 (3.66)	ED90323-ND◆	16.96	127.17	847.80
57	.109 (2.77)	.134 (3.40)	.250 (6.35)	.103 (2.62)	.137 (3.48)	ED5031-ND	6.53	48.99	326.60
	.109 (2.77)	.134 (3.40)	.250 (6.35)	.103 (2.62)	.137 (3.48)	ED90090-ND◆	7.42	55.62	370.80

◆ **RoHS Compliant** * Cut Tape † Tape and Reel ‡ Gage ◊ Minimum/Maximum ✔**NEW!** *(Continued)*

Fig. 37

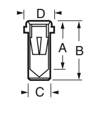

Fig. 38

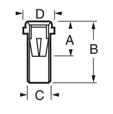

Fig. 39

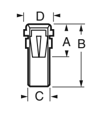

Fig. 40

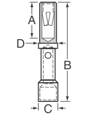

Fig. 41

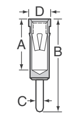

Fig. 42

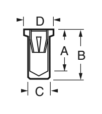

Fig. 43 ***NEW!***

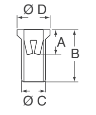

Fig. 44

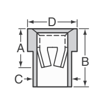

Fig. 45

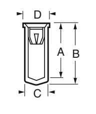

Fig. 46

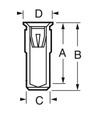

Fig. 47

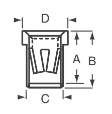

Fig. 48

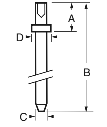

Fig. 49

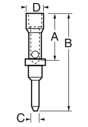

Fig. 50

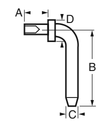

Fig. 51

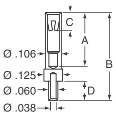

Fig. 52 ***NEW!***

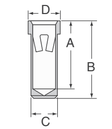

Fig. 53

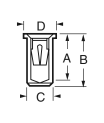

Fig. 54 ***NEW!***

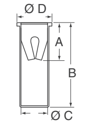

Fig. 55

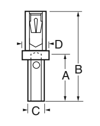

Fig. 56

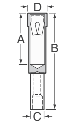

Fig. 57

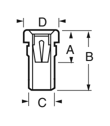

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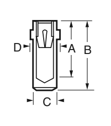

Fig. 59

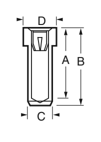

Fig. 60

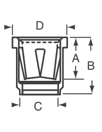

Fig. 61

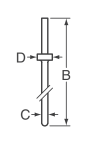

Fig. 62

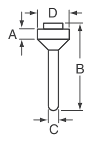

Fig. 63

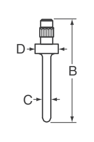

Fig. 64

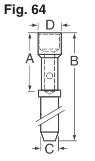

Fig. 65

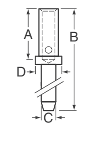

Fig. 66

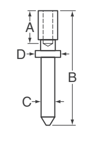

Fig. 67

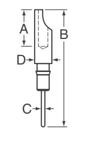

Fig. 68

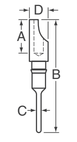

Fig. 69

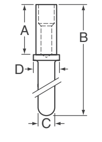

Fig. 70

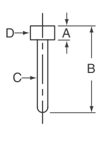

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	øC	øD		10	100	1,000
58	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.187 (4.75)	ED5035-ND	9.66	72.45	483.00
	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.187 (4.75)	ED90093-ND◆	14.29	107.16	714.40
.084" ~ .102" (2 .13mm ~ 2.59mm) Pin Diameter									
59	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED5034-ND	10.72	80.37	535.80
	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED90092-ND◆	16.02	120.12	800.80
60	.139 (3.53)	.122 (3.10)	.165 (4.19)	.104 (2.64)	.156 (3.96)	ED90284-ND◆	25.89	194.19	1294.60
Pin Printed – RoHS Compliant									
.020" (0.51mm) Pin Diameter									
61	.024 (0.61)	—	.545 (13.84)	.020 (0.51)	.046 (1.17)	ED90324-ND	1.22	9.12	60.80
	.024 (0.61)	—	.315 (8.00)	.020 (0.51)	.045 (1.14)	ED90325-ND	1.55	11.61	77.40
62	—	.020 (0.51)	.155 (3.94)	.020 (0.51)	.058 (1.47)	ED90418-ND	1.41	10.56	70.40
.023" (0.58mm) Pin Diameter									
63	.026 (0.66)	—	.190 (4.83)	.018 (0.46)	.045 (1.14)	ED90328-ND	.69	5.16	34.40
.049" (1.24mm) Pin Diameter									
64	20‡	.282 (7.16)	.506 (12.85)	.080 (2.03)	.105 (2.67)	ED90313-ND	8.83	66.24	441.60
	20‡	.282 (7.16)	.681 (17.30)	.080 (2.03)	.105 (2.67)	ED90314-ND	10.23	76.74	511.60
	20‡	.282 (7.16)	.806 (20.47)	.080 (2.03)	.105 (2.67)	ED90315-ND	11.30	84.72	564.80
.067" (1.70mm) Pin Diameter									
65	16‡	.267 (6.78)	.496 (12.60)	.080 (2.03)	.142 (3.61)	ED90317-ND	10.03	75.24	501.60
	16‡	.267 (6.78)	.671 (17.04)	.080 (2.03)	.142 (3.61)	ED90318-ND	11.78	88.32	588.80
	16‡	.267 (6.78)	.796 (20.22)	.080 (2.03)	.142 (3.61)	ED90319-ND	12.93	96.96	646.40
.035" (0.89mm) Pin Diameter									
66	—	.120 (3.05)	.430 (10.92)	.049 (1.24)	.093 (2.36)	ED90336-ND	4.14	31.08	207.20
.038" (0.97mm) Pin Diameter									
67	.057 (1.45)	.150 (3.81)	.491 (12.47)	.020 (.51)	.072 (1.83)	ED90334-ND	4.83	36.24	241.60
.039" (0.99mm) Pin Diameter									
68	.057 (1.45)	.126 (3.20)	.417 (10.59)	.020 (0.51)	.072 (1.83)	ED90335-ND	2.84	21.30	142.00
.073" (1.85mm) Pin Diameter									
69	18‡	.155 (3.94)	.740 (18.80)	.080 (2.03)	.125 (3.18)	ED90312-ND	10.24	76.80	512.00
Pin Printed - Nail Head Type – RoHS Compliant									
.010" (0.25mm) Pin Diameter									
70	.014 (0.36)	.010 (0.25)	.080 (2.03)	.010 (0.25)	.030 (0.76)	ED90401-ND	24.48	183.60	1224.00
.012" (0.30mm) Pin Diameter									
70	.016 (0.41)	.008 (0.20)	.050 (1.27)	.012 (0.30)	.025 (0.64)	ED90412-ND	25.89	194.16	1294.40
	.016 (0.41)	.008 (0.20)	.153 (3.89)	.012 (0.30)	.040 (1.02)	ED90413-ND	22.46	168.45	1123.00
	.016 (0.41)	.010 (0.25)	.084 (2.13)	.012 (0.30)	.030 (0.76)	ED90404-ND	26.02	195.12	1300.80
.015" (0.38mm) Pin Diameter									
70	.019 (0.48)	.020 (0.51)	.125 (3.17)	.015 (0.38)	.035 (0.89)	ED90405-ND	21.65	162.36	1082.40
.018" (0.46mm) Pin Diameter									
70	.022 (0.56)	.006 (0.15)	.166 (4.22)	.018 (0.46)	.050 (1.27)	ED90414-ND	24.57	184.26	1228.40
	.022 (0.56)	.010 (0.25)	.082 (2.08)	.018 (0.46)	.030 (0.76)	ED90403-ND	21.95	164.61	1097.40
.020" (0.51mm) Pin Diameter									
70	.024 (0.61)	.012 (0.30)	.172 (4.37)	.020 (0.51)	.036 (0.91)	ED90406-ND	23.06	172.92	1152.80
.025" (0.64mm) Pin Diameter									
70	.029 (0.74)	.008 (0.20)	.240 (6.10)	.025 (0.64)	.062 (1.57)	ED90407-ND	22.25	166.86	1112.40
.030" (0.76mm) Pin Diameter									
70	.034 (0.86)	.015 (0.38)	.165 (4.19)	.030 (0.76)	.055 (1.40)	ED90419-ND	22.16	166.20	1108.00
.035" (0.89mm) Pin Diameter									
70	.039 (0.99)	.015 (0.38)	.130 (3.30)	.035 (0.89)	.060 (1.52)	ED90402-ND	22.14	166.02	1106.80
.036" (0.91mm) Pin Diameter									
70	.040 (1.02)	.015 (0.38)	.175 (4.45)	.036 (0.91)	.060 (1.52)	ED90420-ND	22.22	166.65	1111.00
.040" (1.02mm) Pin Diameter									
70	.044 (1.12)	.020 (0.51)	.610 (15.49)	.040 (1.02)	.078 (1.98)	ED90408-ND	27.57	206.76	1378.40
	.044 (1.12)	.020 (0.51)	.664 (16.86)	.040 (1.02)	.060 (1.52)	ED90399-ND	27.41	205.56	1370.40
.045" (1.14mm) Pin Diameter									
70	.049 (1.25)	.032 (0.81)	.288 (7.32)	.045 (1.14)	.072 (1.83)	ED90416-ND	22.57	169.26	1128.40
.050" (1.27mm) Pin Diameter									
70	.054 (1.37)	.010 (0.25)	.155 (3.94)	.050 (1.27)	.080 (2.03)	ED90400-ND	22.68	170.10	1134.00
.059" (1.50mm) Pin Diameter									
70	.063 (1.60)	.025 (0.64)	.265 (6.73)	.059 (1.50)	.072 (1.83)	ED90415-ND	26.52	198.90	1326.00
.060" (1.52mm) Pin Diameter									
70	.064 (1.63)	.020 (0.51)	.610 (15.49)	.060 (1.52)	.100 (2.54)	ED90409-ND	34.31	257.31	1715.40
.062" (1.58mm) Pin Diameter									
70	.066 (1.68)	.025 (0.64)	.185 (4.70)	.062 (1.57)	.125 (3.18)	ED90411-ND	25.42	190.62	1270.80
.075" (1.91mm) Pin Diameter									
70	.079 (2.01)	.025 (0.64)	.325 (8.26)	.075 (1.91)	.187 (4.75)	ED90410-ND	38.39	287.91	1919.40

◆ ***RoHS Compliant*** * Cut Tape † Tape and Reel ‡ Gage ◊ Minimum/Maximum ✔***NEW!***

Zig Zag Socket

Double row staggered strips will accommodate Single-in-Line Zig-Zag memory packages on high density boards, left stackable. **Insertion Characteristics:** 4-finger low force **Plating:** Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au

No. of Pins	Insulator Body	Digi-Key Part No.	Price Each					Mill-Max Part No.
			1	10	100	500	1,000	
20	Left Stackable	ED2220-ND	3.12	2.17	1.75	1.50	1.25	410-93-220-10-001000

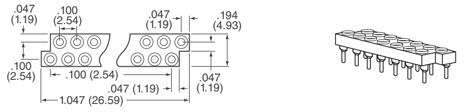

Solder Cup Headers and Sockets – Single and Double Row

Features: Shell Plating: • *Headers:* 10µ" Gold over 100µ" Nickel • *Soldercup Strip Sockets:* 200µ" Tin (matte finish) over 100µ" Nickel • Inner Contact Plating: 30µ" Gold over 50µ" Nickel • Current Rating: 3A **Shell Material:** • *Headers:* Brass Alloy (UNS C36000) per ASTM B 16 • *Soldercup Strip Sockets:* Beryllium Copper Alloy 172 (UNS C17200) per ASTM B 194 **Brass Alloy Properties:** • Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1% • Hardness as machined: 80 - 90 Rockwell B • Density: .307 lbs/in3 • Electrical conductivity: 26% IACS • Melting point: 900°C/885°C (liquid/solid) **Beryllium Copper Alloy Properties:** • Chemical composition: Cu 98.1%, Be 1.9% • Temper as stamped: TD01 • Hardness: 36 - 43 Rockwell C • Mechanical Life: 100 cycles/min. • Density: .298 lbs/in3 • Electrical conductivity: 22% IACS • Maximum Resistance: 10mΩ • Operating Temperature: -55°C ~ 125°C Melting point: 980°C/865°C (liquid/solid) • Stress relaxation: 96% of stress remains after 1,000 hours @ 100°C; 70% of stress remains after 1,000 hours @ 200°C

Dim. in Inches (mm)

Fig. 1

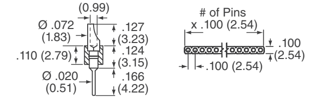

Fig. 2

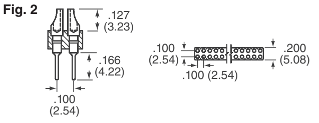

Fig. 3

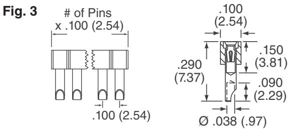

Fig. 4

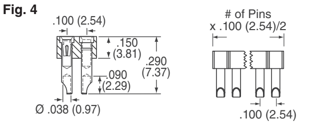

Fig.	Description	No. of Pins	Digi-Key Part No.	Price Each			Mill-Max Part No.
				1	10	100	
1	Single Row, Straight Pin Header, Through Hole, with Solder Tail	64	ED90337-ND	22.52	19.52	15.77	380-10-164-00-001000
2	Double Row, Straight Pin Header, Through Hole, with Solder Tail	64	ED90340-ND	24.21	20.98	16.95	480-10-264-00-001000
3	Single Row, Soldercup Strip Socket, Through Hole	64	ED90338-ND	28.04	24.31	19.63	329-43-164-41-540000
4	Double Row, Soldercup Strip Socket, Through Hole	64	ED90339-ND	30.63	26.55	21.45	429-43-264-41-540000

NEW! HARWiN PCB Terminals and Sockets

Fig. 1
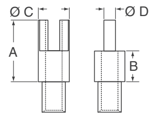

Fig. 2
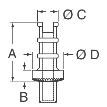

Fig. 3
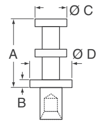

Fig. 4
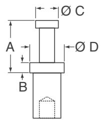

Fig. 5
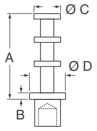

Fig. 6
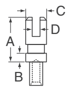

Fig. 7
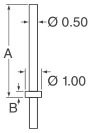

Fig. 8
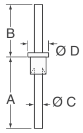

Fig. 9
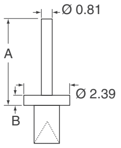

Fig. 10
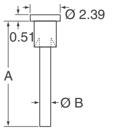

Fig. 11
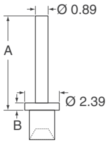

Fig. 12
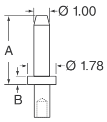

Fig. 13
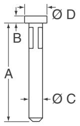

Fig. 14
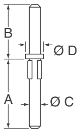

Fig. 15
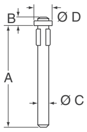

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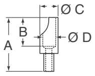

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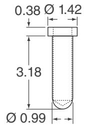

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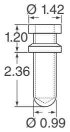

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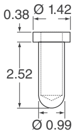

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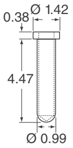

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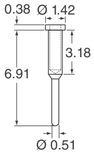

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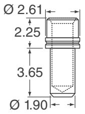

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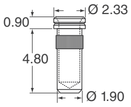

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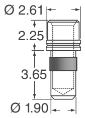

Fig. 25
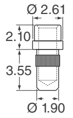

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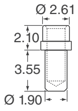

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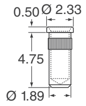

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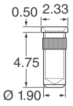

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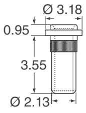

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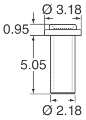

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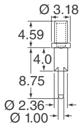

Fig. 32
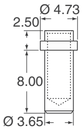

Fig. 33
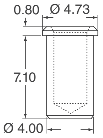

Fig.	Dimensions - mm A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	100	Harwin Part No.
PC Board Turned Terminals										
Turret Lugs										
1	4.78	2.38	3.18	0.79	952-1425-ND	.47	.33	.26	.23	H2051-01
	6.35	3.17	3.18	1.19	952-1426-ND	.47	.33	.26	.23	H2055-01
2	9.12	1.78	3.18	4.75	952-1427-ND	.87	.68	.58	.52	H2071Z01
	6.35	1.07	3.25	3.96	952-1428-ND	.72	.57	.48	.43	H2072-01
	6.52	1.24	2.54	3.96	952-1429-ND	.65	.51	.43	.39	H2072Z01
	6.52	1.24	2.54	3.96	952-1430-ND	.68	.54	.45	.41	H2072ZL1
	9.12	1.78	3.18	4.75	952-1431-ND	.55	.39	.30	.26	H2073Z01
	8.74	1.60	4.57	6.35	952-1432-ND	1.11	.92	.77	.68	H2074Z01
3	5.15	0.58	2.39	3.18	952-1440-ND	.50	.35	.27	.24	H2121-01
4	2.39	0.46	1.02	1.57	952-1450-ND	.48	.30	.21	.18	H9001-01
	4.74	1.19	1.81	3.18	952-1451-ND	.50	.35	.27	.24	H9004-01
5	7.65	0.58	2.36	3.18	952-1452-ND	.60	.42	.33	.29	H9020-01
	7.65	0.58	2.36	3.18	952-1453-ND	.55	.39	.30	.26	H9021-01
6	3.96	0.78	1.83	0.71	952-1454-ND	.49	.39	.33	.30	H9023-01
0.5mm										
7	5.70	0.38	—	—	952-1447-ND	.43	.27	.18	.16	H3108-01
0.8mm										
8	5.05	4.48	—	—	952-1436-ND	.39	.25	.17	.14	H2105-01
9	4.11	0.51	—	—	952-1437-ND	.55	.39	.30	.26	H2105A01
	4.11	0.51	—	—	952-1439-ND	.50	.35	.27	.24	H2106A01
10	6.30	0.81	—	—	952-1438-ND	.55	.39	.30	.26	H2105B01
1.0mm										
8	8.23	6.07	0.91	2.39	952-1433-ND	.55	.39	.30	.26	H2101-01
10	8.39	0.93	—	—	952-1456-ND	.50	.35	.27	.24	H2101B01
	9.20	0.93	—	—	952-1435-ND	.50	.35	.27	.24	H2102B01
11	6.53	0.51	—	—	952-1434-ND	.43	.27	.18	.16	H2101A01
12	13.21	0.51	—	—	952-1442-ND	.50	.35	.27	.24	H2170-01
	8.13	0.51	—	—	952-1443-ND	.45	.32	.25	.22	H2173-01
12	4.32	0.51	—	—	952-1444-ND	.39	.28	.22	.19	H2174-01
	4.90	0.35	—	—	952-1445-ND	.36	.25	.20	.17	H2175-01
	9.53	0.51	—	—	952-1446-ND	.45	.28	.19	.16	H2176-01
13	7.00	0.50	0.97	1.59	952-1448-ND	.32	.20	.14	.12	H3150-01
14	5.59	4.41	0.97	1.59	952-1449-ND	.46	.33	.25	.22	H3151-01
1.2mm										
15	11.40	1.00	1.21	2.00	952-1441-ND	.42	.27	.18	.15	H2157-01
Solder Cup Pin										
16	6.35	5.08	3.18	2.39	952-1455-ND	.49	.39	.33	.30	H9026-01
PC Board Sockets										
Sub-Miniature 0.5mm										
17	—	—	—	—	952-1457-ND	.43	.27	.18	.16	H3153-01
18	—	—	—	—	952-1458-ND	.36	.26	.20	.17	H3155-01
19	—	—	—	—	952-1459-ND	.48	.34	.26	.23	H3190-01
20	—	—	—	—	952-1460-ND	.55	.39	.30	.26	H3191-01
21	—	—	—	—	952-1461-ND	.60	.42	.33	.29	H3192-01
0.8mm										
22	—	—	—	—	952-1462-ND	.61	.48	.40	.36	H8505-01
23	—	—	—	—	952-1463-ND	.53	.42	.35	.32	H8501-01
24	—	—	—	—	952-1464-ND	.55	.39	.30	.26	H8502-01
1.00mm										
25	—	—	—	—	952-1465-ND	.55	.39	.30	.26	H3165-01
26	—	—	—	—	952-1466-ND	.50	.35	.27	.24	H3182-01
27	—	—	—	—	952-1467-ND	.37	.26	.20	.18	H3161-01
28	—	—	—	—	952-1468-ND	.49	.35	.27	.24	H3183-01
29	—	—	—	—	952-1469-ND	.57	.45	.38	.34	H3169-01
30	—	—	—	—	952-1470-ND	.49	.39	.33	.30	H3185-01
31	—	—	—	—	952-1471-ND	1.54	1.28	1.06	.96	H3194-01
2.00mm										
32	—	—	—	—	952-1472-ND	1.37	1.14	.95	.84	H3490-01
33	—	—	—	—	952-1473-ND	1.33	1.11	.93	.82	H3492-01

ARIES® ELECTRONICS, INC.

4-Pin Oscillator Sockets

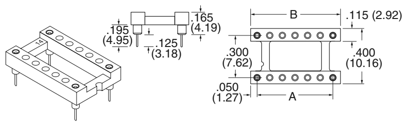

Specifications: • Socket Body: Blue UL94V-0 glass-filled polyester thermoplastic (PBT) • Pin Body Plating: 200µ min. tin per MIL-T-10727 over 100µ min. nickel per QQ-N-290 • Contact Plating: 10µ min. gold per MIL-G-45204 over 50µ min. nickel per QQ-N-290 • Contact Current Rating: 3A • Operating Temperature: 105°C • Insertion Force: 180 grams/pin; Withdrawal Force: 90 grams/pin; Normal Force: 140 grams/pin; based on a .018" (.46mm) diameter test lead • Accepts leads .015" ~ .025" (.38mm ~ .64mm) in diameter, .100" ~ .146" (2.54mm ~ 3.71mm) in length

Size	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
Full	.600 (15.24)	.700 (17.78)	A462-ND	1.15	.69	.55	1107741
Half	.300 (7.62)	.400 (10.16)	A463-ND	1.15	.69	.55	1108800

Open Frame Machine Pin Collet Sockets

Specifications: • Contacts: Collet: Beryllium copper with 10µ" gold plating; Body: Brass • Collet accepts .014"-.022" (.38mm-.56mm) diameter round leads • Platform: Glass-filled thermoplastic, UL94V-0 • Compatible with automatic insertion equipment • Collet is 10µ" gold plated

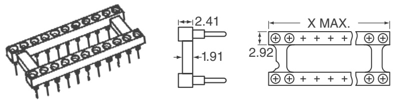

Pin Centers mm	No. of Pins	Dim. "X" mm	Digi-Key Part No.	Pricing 1	25	Aries Part No.
7.62	8	10.16	A400-ND	1.06	19.25	08-3518-10
7.62	14	17.78	A401-ND	1.41	25.44	14-3518-10
7.62	16	20.32	A402AE-ND	1.37	26.25	16-3518-10
7.62	18	22.86	A403AE-ND	1.69	32.50	18-3518-10
7.62	20	25.40	A404AE-ND	1.53	29.38	20-3518-10
7.62	24	30.48	A405-ND	1.92	36.88	24-3518-10
10.16	22	27.97	A406-ND	2.38	46.13	22-4518-10
10.16	24	30.48	A407-ND	2.70	52.31	24-4518-10
15.24	24	30.48	A408-ND	1.98	38.13	24-6518-10
15.24	28	35.56	A409AE-ND	2.37	45.63	28-6518-10
15.24	32	40.64	A410AE-ND	2.41	46.69	32-6518-10
15.24	40	50.80	A411-ND	2.81	54.56	40-6518-10
15.24	48	60.96	A412-ND	3.63	70.31	48-6518-10
22.86	50	63.50	A413-ND	5.39	104.63	50-9518-10
22.86	64	81.28	A414-ND	6.19	124.95	64-9518-10

ARIES® ELECTRONICS, INC.

IC Pin Straightener

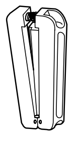

A998-ND
$22.25/1
$519.05/25

Dip Extractor

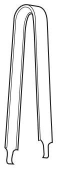

A999-ND
$6.77/1
$131.23/25

A998-ND Anti-Static IC Pin Straightener:

Straighten IC legs with one squeeze. Fits .300" (7.62mm) ICs in one side of the tool and .600" (15.24mm) ICs in the other side of the tool. Brings leads into tolerance of .320" (8.13mm) or .620" (15.75mm), respectively.

Note: This tool does not straighten IC legs that are bent to such an extent that the pin-to-pin spacing is not .100" (2.54mm).

A999-ND Dip Extractor:

An extremely handy, low-cost tool for removing ICs from dip sockets.

Adapter Sockets

A501/502

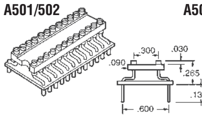

A503/504

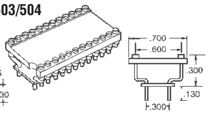

No. of Pins	Description Inch	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	.300 ~ .600	A501-ND	6.72	5.84	4.68	1106396-24
28	.300 ~ .600	A502-ND	6.38	5.59	4.95	1106396-28
24	.600 ~ .300	A503-ND	6.72	5.84	4.68	1107254-24
28	.600 ~ .300	A504-ND	6.38	5.59	4.95	1107254-28

DIP Headers and Covers

Order Headers and Covers Separately

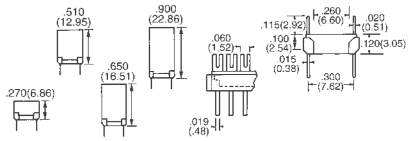

No. of Pins	DIP Header Digi-Key Part No.	Pricing 1	25	Aries Part No.	Cover Selection Guide – Inch (mm) .27 (6.86)	.51 (12.95)	.65 (16.51)	.90 (22.86)
8	A101-ND	1.50	28.75	08-600-10	A105-ND	—	—	—
14	A102AE-ND	2.11	40.63	14-600-10	A106-ND	A107-ND	A108-ND	A109-ND
16	A103-ND	2.28	43.75	16-600-10	A110AE-ND	A111-ND	A112-ND	A113-ND
18	A133-ND	2.93	56.81	18-600-10	A137-ND	—	—	—
20	A104AE-ND	2.44	47.25	20-600-10	A114-ND	—	—	—
24	A134-ND*	3.83	74.25	24-600-10	A138-ND	A139-ND	—	—
28	A135-ND*	3.51	68.06	28-600-10	A140-ND	—	—	—
40	A136-ND*	4.64	90.00	40-600-10	A142-ND	—	—	—

* .600 Pin Spacing

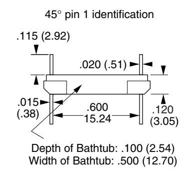

Cover Digi-Key Part Number	Pricing 1	25	Aries Part No.
A105-ND◆	3.25	63.00	08-650-10
A106-ND◆	3.25	63.00	14-650-10
A107-ND◆	3.25	63.00	14-650-20
A108-ND◆	3.25	63.00	14-650-30
A109-ND◆	3.25	63.00	14-650-40
A110AE-ND◆	3.25	63.00	16-650-10
A111-ND	3.25	63.00	16-650-20
A112-ND◆	3.25	63.00	16-650-30
A113-ND◆	3.25	63.00	16-650-40
A114-ND◆	4.93	95.63	20-650-10
A137-ND	4.93	95.63	18-650-10
A138-ND◆	4.93	95.63	24-650-10
A139-ND	4.93	95.63	24-650-20
A140-ND	4.93	95.63	28-650-10
A142-ND◆	4.93	95.63	40-650-10

◆ *RoHS Compliant*

Vertisockets™ Vertical Mount

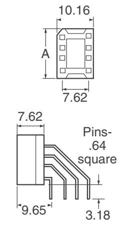

A117-ND

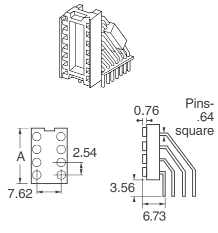

A122-ND – A125-ND

Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (15.24mm) high displays

Specifications: • **Contacts**: Grade A spring-tempered phosphor bronze • **Plating**: 10µ gold per MIL-G-45204 over 50µ nickel per QQN-290; 100µ tin plating per MIL-T-10727 over 50µ nickel per QQN-290 • **Socket**: Glass-filled thermoplastic

No. of Pins	Pin Centers (mm)	Description	Dim. A (mm)	Digi-Key Part No.	Pricing 1	25	Aries Part No.
8	7.62	Gold Plated	11.43	A117-ND	6.29	127.05	08-810-90
14	7.62	Gold Plated	19.05	A118-ND	7.49	151.20	14-810-90
16	7.62	Gold Plated	21.59	A119-ND	8.60	187.00	16-810-90
8	15.24	Gold Plated	—	A466-ND	7.59	153.30	08-6810-90C
14	7.62	Tin Plated	19.05	A120-ND	5.42	105.19	14-810-90T
10	7.62	Collet Contacts	12.57	A122-ND	8.27	166.95	10-810-90C
14	7.62	Collet Contacts	17.65	A124-ND	9.11	198.00	14-810-90C
16	7.62	Collet Contacts	20.19	A125-ND	10.10	219.50	16-810-90C
8	15.24	Gold Plated	—	A464-ND	6.24	126.00	08-6810-90
10	5.08	Gold Plated	—	A465-ND	7.49	151.20	10-2810-90

Vertisockets™ Horizontal Mount

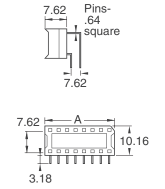

A126-ND – A129-ND

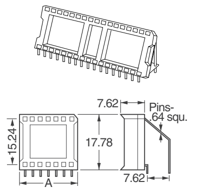

A130-ND – A132-ND

Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (15.24mm) high displays **Specifications**: • Contacts: Grade A spring tempered phosphor bronze • Plating: 10µ gold per MIL-G-45204 over 50µ nickel per QQN-290; 100µ tin plating per MIL-T-10727 over 50µ nickel per QQN-290 • Socket: Glass-filled thermoplastic

No. of Pins	Pin Centers mm	Dim. A mm	Digi-Key Part No.	Pricing 1	25	Aries Part No
8	7.62	11.43	A126-ND	5.80	112.50	08-823-90
14	7.62	19.05	A127-ND	6.34	128.10	14-823-90
16	7.62	21.59	A128-ND	6.89	139.13	16-823-90
20	7.62	26.67	A129-ND	7.50	163.00	20-823-90
24	15.24	31.75	A130-ND	10.04	219.63	24-6823-90
40	15.24	52.07	A132-ND	12.46	284.95	40-6823-90

Vertisockets™ Vertical Mount - Thrifty Model

For displays on .300" (7.62mm) centers, 14 pin. These low-cost Vertisockets are recommended for high-volume vertical display mounting applications. Available in tin-plated only

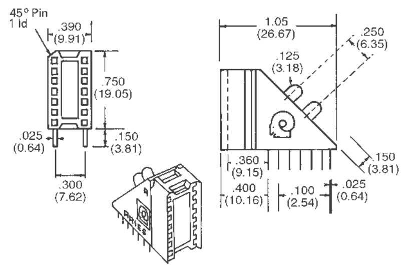

Digi-Key Part No.	Pricing 1	25	100	500	Aries Part No.
A116-ND	4.42	96.00	307.20	1296.00	14-810-90R

Series X518 Collet Sockets with Solder Tail Pins

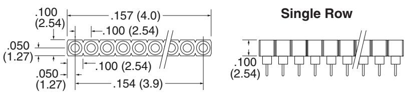

Features: • Can be cut to the number of pins desired to fit the application • Side-to-side and end-to-end stackable **Specifications**: • Socket Body: Black UL94V-0 nylon 4/6 • Contact Current Rating: 3A • Operating Temperature: Tin plating: 221°F (105°C); Gold plating: 257°F (125°C) • Accepts leads .015" ~ .025" (.381mm ~ .635mm) in diameter, .100" (2.54mm) minimum in length **Mounting**: Suggested PCB hole: .030" ±.002" (.76mm ±.05mm) diameter

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	Aries Part No.
40	Tin Plated Gold Plated	A460-ND A461-ND	3.19 4.70	2.48 3.65	40-0518-10 40-0518-11

Quad Flat Pack (QFP) to PGA Adapters

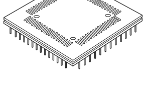

Features: Adapters convert surface mount type (SMD) Quad Flat Pack (QFP) packages to standard pin grid array through-hole packages on .100" (2.54mm) pin spacing.

Chip Type/ Mfg.	Pads No.	PGA No.	Pins/ Matrix	Digi-Key Part No.	Price Each	Aries Part No.
JEDEC	132	132	13x13	A174-ND	22.41	95-132I25

ARIES ELECTRONICS, INC.

Lock / Eject DIP Sockets

RoHS COMPLIANT

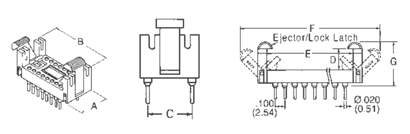

No. of Pins	Dimensions - Inches (mm)						
	A	B	C	D	E	F	G
14	.400 (10.16)	.950 (24.16)	.300 (7.62)	.280 (7.11)	.770 (19.56)	1.300 (33.02)	.490 (12.45)
16	.400 (10.16)	1.050 (26.70)	.300 (7.62)	.280 (7.11)	.870 (22.10)	1.540 (39.12)	.490 (12.45)
24	.700 (17.78)	1.490 (37.85)	.600 (15.24)	.182 (4.62)	1.300 (33.02)	1.800 (45.72)	.460 (11.68)
28	.700 (17.78)	1.690 (42.90)	.600 (15.24)	.182 (4.62)	1.500 (38.10)	2.000 (50.80)	.460 (11.68)
32	.700 (17.78)	1.890 (48.00)	.600 (15.24)	.182 (4.62)	1.700 (43.18)	2.200 (55.88)	.460 (11.68)
40	.700 (17.78)	2.290 (58.20)	.600 (15.24)	.182 (4.62)	2.100 (53.34)	2.600 (66.04)	.460 (11.68)

No. of Pins	Fits Jumper Connectors, such as:	Digi-Key Part No.	Price Each			Aries Part No.
			1	25	100	
14	IC Packages	A514-ND	4.44	3.45	2.76	14-C280-10
16	IC Packages	A516-ND	4.76	3.69	2.96	16-C280-10
24	IC Packages	A524-ND	6.64	5.16	4.13	24-C182-10
28	IC Packages	A528-ND	6.37	5.15	4.17	28-C182-10
32	IC Packages	A532-ND	7.28	5.88	4.76	32-C182-10
40	IC Packages	A540-ND	8.12	7.06	5.65	40-C182-10

Pin-Line Sockets with "Break" Feature

RoHS COMPLIANT

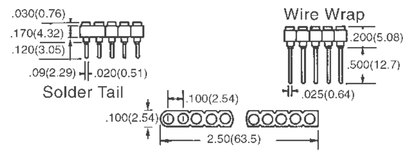

Features: • Tin-plated Pin-Line sockets can be snapped apart into any number of pins without damage or loss of pins. • Pin-Line sockets are low profile and used for mounting devices with .100" (2.54mm) spacing between pins. • Rows of socket strips may be mounted on any centers or side-by-side for .100" (2.54mm) grid or matrix patterns. Strips also butt end-to-end and maintain .100" (2.54mm) spacing.

No. of Pins	Digi-Key Part No.	Price Each			Aries Part No.
		1	25	100	
Solder Tail Dip Socket with Screw Machined Pin					
25	A208-ND	3.22	2.50	2.00	25-0513-10
Wire Wrap Socket with Screw Machined Pin					
25	A209-ND	6.56	5.70	4.56	25-0503-30

Pin-Line SIP Headers

RoHS COMPLIANT

Fig. 1

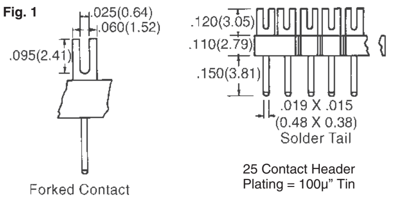

25 Contact Header
Plating = 100μ" Tin

Fig. 2

25 Contact Header
Plating = 10μ" Gold

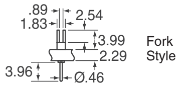

Features: • Coined contacts • "Break" feature on Pin-Line headers assures headers can be easily snapped off to any number of positions without loss or damage to any pins. No tool is required. The "break" feature minimizes stocking problems and gives immediate adaptability for any length header requirement to any grid or matrix pattern.

Fig.	Digi-Key Part No.	Price Each			Aries Part No.
		1	25	100	
1	A115-ND	3.22	2.50	2.00	25-0600-10
2	A738-ND	10.46	9.16	8.11	25-0625-11

Strip Line SIP Sockets

RoHS COMPLIANT

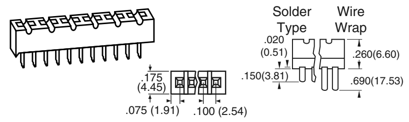

Features: • Bifurcated contacts **Specifications:** • Contacts: Grade A spring temper phosphor bronze QQB-7500 • Plating: 100μ tin per MIL-T-10727 • Socket: Glass-filled thermoplastic

No. of Pins	Digi-Key Part No.	Price Each			Aries Part No.
		1	25	100	
Solder Tail					
12	A200-ND	3.02	2.34	1.88	12-0511-10
20	A201-ND	4.06	3.15	2.52	20-0511-10
25	A202-ND	5.08	3.94	3.15	25-0511-10
34	A203-ND	5.31	4.12	3.30	34-0511-10
Wire Wrap					
12	A204-ND	5.28	4.10	3.28	12-0501-30
20	A205-ND	6.92	5.59	4.53	20-0501-30
25	A206-ND	7.71	6.70	5.36	25-0501-30
34	A207-ND	8.24	7.21	6.39	34-0501-30

Surface Mount PLCC to DIP Adapters

Materials: • **Pins and Contacts:** Phosphor bronze adapter • **Body:** FR-4, .062" (1.57mm) thick • **Socket:** LCP, UL94V-0 rated • **Pads and Traces:** 1 oz. minimum copper **Plating:** • **Pins:** 200μ" tin per MIL-T-10727 over 100μ" nickel per QQ-N-290 • **Contacts:** 150μ" 90/10 tin/lead

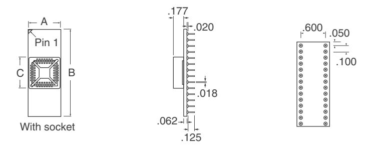

No.of Pins	Dimensions - Inch			Digi-Key Part No.	Price Each		Aries Part No.
	A	B	C		1	25	
28	.77	1.40	.705	A326-ND	20.45	19.09	28-653000-10
32	.705	1.60	.805	A721-ND	23.04	21.51	32-653000-10
44	.97	2.20	.910	A327-ND	23.55	21.98	44-653000-10
68	1.28	3.40	1.220	A328-ND	27.26	25.44	68-653000-10
84	1.48	4.20	1.420	A329-ND	27.26	25.44	84-653000-10

TO to DIP Adapter/Socket

RoHS COMPLIANT

Features: 8-pin DIP IC socket on the top and a circular 8-pin TO can male pin footprint on the bottom, can be readily mounted on boards having TO thru-hole footprints without having to redesign the board. **Specifications:** • Socket Body: Black UL94V-0 glass-filled polyester thermoplastic • Female Pin Body Plating: 200μ" min. tin over 100μ" min. nickel • Contact Plating: 10μ" min. gold over 50μ" min. nickel • Male Pin: Brass alloy 360 • Male Pin Plating: 200μ" min. tin • Current rating: 3A • Operating Temperature: 221°F (105°C) Tin plating • Accepts leads .015" ~ .025" (.38mm ~ .64mm) in diameter, .100" ~ .125" (2.54mm ~ 3.18mm) long **Mounting Considerations:** Suggested PCB hole size: .028" (.71mm) diameter

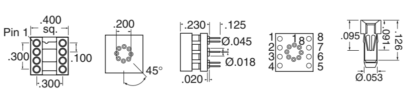

Digi-Key Part No.	Price Each				Aries Part No.
	1	25	100	500	
A330-ND	9.00	7.27	5.89	4.85	1109523

Zero Insertion Force (ZIF) Sockets

RoHS COMPLIANT

Specifications: • **Plating:** 10μ gold plating per MIL-G-45204 • **Contact Current Rating:** 1A • **Operating Temperature:** 257°F (125°C)

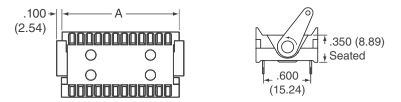

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			Aries Part No.
			1	25	100	
24	1.42 (36.07)	A764-ND	8.52	7.46	6.61	24-516-11
28	1.62 (41.15)	A762-ND	9.16	8.02	7.10	28-516-11
40	2.22 (56.39)	A763-ND	10.27	9.40	8.46	40-516-11

PGA Zero Insertion Force (ZIF) Sockets

RoHS COMPLIANT

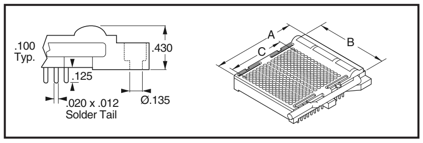

Features: • The Aries ZIF PGA is an extremely rugged, yet smooth acting test socket. • A strong metal cam activates the contacts which are normally closed. This prevents dependency on the plastic for contact force. • Housing of glass filled PPS, UL94V-0 rated **Specifications**: • **Contacts**: Beryllium copper • **Temperature Rating**: -65°C ~ 125°C • **Housing**: Glass filled PPS, UL94V-0 rated • **Handle**: Stainless steel

Grid Size	No. of Pins	Dimensions - Inch			Digi-Key Part No.	Price Each
		A	B	C		
13 x 13	169	1.894	1.675	1.200	A314-ND	27.48
15 x 15	225	2.094	1.875	1.400	A315-ND	34.24
17 x 17	289	2.294	2.075	1.600	A316-ND	41.76
19 x 19	361	2.494	2.275	1.800	A317-ND	50.23
21 x 21	441	2.694	2.475	2.000	A318-ND	59.71

Surface Mount Universal SOIC Zero Insertion Force (ZIF) Test Sockets

Socket Accepts: SOIC gull wing & J-lead devices up to 44 pin devices; .050" (1.27mm) lead pitch; body widths from .15" (3.81mm) to .60" (15.24mm) **Materials:** • **Body:** Glass-filled PPS, UL94V-0 rated • **Contacts:** Beryllium copper alloy per QQ-C-543 • **Hardware:** Stainless Steel • **Plating:** 20μ" minimum gold per MIL-G-45204 over 100μ": minimum nickel per QQ-N-290 over 20μ" minimum copper per MIL-C-14550

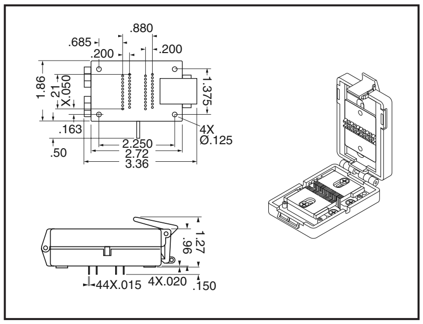

Digi-Key Part No.	Price Each	Aries Part No.
A339-ND◆	134.38	44-547-11
44 Pos. DIP Adapter (Converts A339-ND to standard 44 Pos. DIP)		
A728-ND	131.40	44-647-10

◆ ***RoHS Compliant***

Zero Insertion Force (ZIF) Lo-Profile Sockets

RoHS COMPLIANT

Features: A complete line of sizes, 24, 28 and 40 pin, low profile ZIF (zero insertion force) sockets provides a low cost solution for a test socket with a height of only .319" (8.10mm) [8, 10] and even with handle in open position, measures just .554" (14.07mm). **Specifications:** • **Pin:** Spring temper beryllium copper, tin plated • **Body:** Glass filled polyester, UL94V-0 rated. • **Cam:** Cast metal

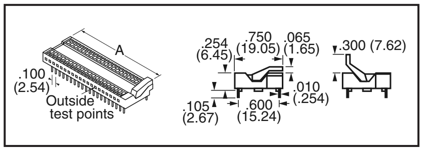

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			Aries Part No.
			1	25	100	
24	1.450 (36.83)	A346-ND	7.25	6.30	5.04	24-526-10
28	1.650 (41.91)	A347-ND	6.83	5.94	4.76	28-526-10
40	2.250 (57.15)	A348-ND	8.21	7.14	5.72	40-526-10

ARIES ELECTRONICS, INC.

Universal Zero Insertion Force (ZIF) Test Sockets

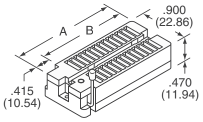

Direct replacement for other test sockets currently on the market, with a number of significant advantages. **Features:** • .900" (22.86mm) overall height with contact level up • Available 24, 28, 32, 40, 48 pins in body of UL94V-0 rated polyphenylene sulfide • Contacts available tin plated (up to 105°C) or gold plated (up to 150°C) • Insulation Resistance: 1,000MΩ min. Dielectric withstanding voltage – 1,000VAC min. • Contact rating: 1A • All pin count sockets (24, 28, 32, 40, 48) go into PCBs with .600 (15.24) centers. • Sockets can be soldered into PC boards or plugged into any socket. • Contacts are normally closed to eliminate dependence on plastic to sustain contact.

No. of Pins	Contact Plating	Dimension - Inch (mm) A	Dimension - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
24	Tin	1.74 (44.20)	1.10 (27.94)	A300-ND	9.09	7.90	6.32	24-6554-10
	Gold	1.74 (44.20)	1.10 (27.94)	A301AE-ND	11.42	10.00	8.86	24-6554-11
28	Tin	1.94 (49.28)	1.30 (33.02)	A302-ND	9.02	7.90	7.00	28-6554-10
	Gold	1.94 (49.28)	1.30 (33.02)	A303-ND	10.52	9.63	8.67	28-6554-11
32	Tin	2.14 (54.37)	1.50 (38.10)	A304-ND	10.06	8.81	7.80	32-6554-10
	Gold	2.14 (54.37)	1.50 (38.10)	A305-ND	11.68	10.69	9.62	32-6554-11
40	Tin	2.54 (64.52)	1.90 (48.26)	A306-ND	12.02	10.52	9.32	40-6554-10
	Gold	2.54 (64.52)	1.90 (48.26)	A307-ND	13.92	12.74	11.47	40-6554-11
48	Tin	2.94 (74.68)	2.30 (58.42)	A308-ND	11.99	10.97	9.87	48-6554-10
	Gold	2.94 (74.68)	2.30 (58.42)	A309-ND	14.37	13.42	12.46	48-6554-11

Quick-Release Universal ZIF Test Socket

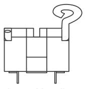
Loop Handle

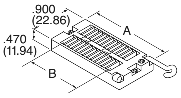

Features: • Aries' Universal Test Socket accepts devices on .300" (7.62mm) ~ .600" (15.24mm) centers • Sockets go into PCB .600" (15.24mm) centers • Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads. **Specifications:** • **Socket Body:** Black UL94V-0 Glass-filled Polyphenylene Sulfide (PPS) • **Handle:** stainless steel • **Contact Current Rating:** 1 Amp • **Insulation Resistance:** 1,000MΩ minimum • **Life Cycle:** 25,000 ~ 50,000 cycles • **Operating Temperature:** 221°F (105°C) Tin plating; 302°F (150°C) Gold plating • **Retention Force (when closed):** • 55 grams/pin based on a .020" (.51mm) diameter test lead • Accepts leads .015" ~ .035" (.38mm ~ .89mm) wide, .100" ~ .280" (2.79mm ~ 7.11mm) long

No. of Pins	Description	Dimension - Inch (mm) A	Dimension - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
24	Tin Plated	1.79 (45.47)	1.10 (27.94)	A439-ND	9.54	8.35	7.40	24-6574-10
	Gold Plated	1.79 (45.47)	1.10 (27.94)	A440-ND	9.38	8.59	7.73	24-6574-11
28	Tin Plated	1.99 (50.55)	1.30 (33.02)	A441-ND	10.88	9.52	8.44	28-6574-10
	Gold Plated	1.99 (50.55)	1.30 (33.02)	A442-ND	12.72	11.64	10.48	28-6574-11
32	Tin Plated	2.19 (55.63)	1.50 (38.10)	A443-ND	12.26	10.73	9.51	32-6574-10
40	Tin Plated	2.59 (65.79)	1.90 (48.26)	A445-ND	12.33	11.28	10.15	40-6574-10
48	Gold Plated	2.99 (75.95)	2.30 (58.42)	A448-ND	17.36	16.20	15.05	48-6574-11

Surface Mount SOIC to DIP, SSOP to DIP, and SOJ to DIP Adapters

Specifications: • **Board:** .062" (1.57mm) thick, double-sided FR-4, with 1 oz. copper traces • **Pins:** Brass alloy 360, 1/2 hard • Plating: 200µ" (5.08 µm) minimum 93/7 tin/lead per MIL-T-10727 Type 1 over 100µ" (2.54µm) minimum nickel per QQ-N-290 • **Mounting: Suggested PCB hole:** .028" (.71mm) diameter

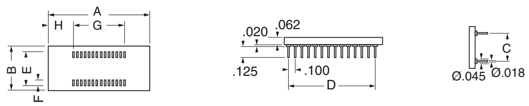

No. of Pins	Type	A	B	C	D	E	F	G	H	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Aries Part No.
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A724-ND	6.19	5.00	4.05	08-350000-10
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A725-ND	6.19	5.00	4.05	14-350000-10
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A730-ND	16.10	15.03	13.95	14-351000-10
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A726-ND	6.19	5.00	4.05	16-350000-10
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A731-ND	16.10	15.03	13.95	16-351000-10
18	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A736-ND	8.74	7.06	5.72	18-350000-10
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A727-ND	6.19	5.00	4.05	20-350000-10
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A733-ND	16.10	15.03	13.95	20-351000-10
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A720-ND	7.94	6.95	6.16	24-650000-10
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A322-ND	6.19	5.00	4.05	24-350000-10
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A320-ND	11.24	9.84	8.72	28-650000-10
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A321-ND	7.16	6.27	5.55	28-350002-10
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A734-ND	16.10	15.03	13.95	28-351000-10
	SSOP	1.400	.700	.600	1.300	.340	.070	.333	—	A735-ND	22.32	20.84	19.35	28-651000-10
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A323-ND	11.82	10.35	9.17	32-650000-10
	SOJ	1.600	.530	.400	1.500	.500	.090	.750	.425	A324-ND	10.40	9.10	8.06	32-450001-10
RoHS Compliant														
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A744-ND	7.23	5.84	4.73	08-350000-11-RC
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A745-ND	7.23	5.84	4.73	14-350000-11-RC
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A746-ND	13.32	12.44	11.55	14-351000-11-RC
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A747-ND	7.23	5.84	4.73	16-350000-11-RC
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A748-ND	13.32	12.44	11.55	16-351000-11-RC
18	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A750-ND	7.23	5.84	4.73	18-350000-11-RC
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A751-ND	7.23	5.84	4.73	20-350000-11-RC
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A753-ND	13.32	12.44	11.55	20-351000-11-RC
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A754-ND	12.45	—	—	24-650000-11-RC
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A755-ND	7.23	5.84	4.73	24-350000-11-RC
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A756-ND	9.15	8.54	7.93	28-650000-11-RC
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A757-ND	9.74	8.53	7.55	28-350002-11-RC
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A758-ND	13.32	12.44	11.55	28-351000-11-RC
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A760-ND	21.96	20.50	19.04	32-650000-11-RC

RoHS COMPLIANT ~ ISO 9001 CERTIFIED
KEYSTONE ELECTRONICS CORP

MICA Insulators for Transistor Mounting

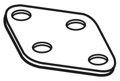

These precision stamped MICA Insulators provide good thermal conductivity (.009 watts per square inch per °C per inch in thickness). Excellent thermal resistance 1100°F (593°C). Dielectric constant of 7 at 1,000kHz. **Specifications:** .003" (.08mm) thick MICA ±.001" (±.03mm)

Fig. 1

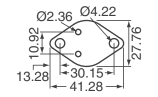

Fig. 2

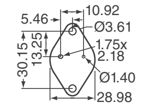

Fig. 3

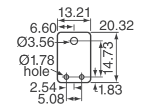

Fig. 4

"A" Dim. (Dia.)
4672K: 3.58mm
4673K: 2.92mm

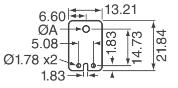

Fig.	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Pricing 1,000	Keystone Part No.
1	4651K-ND	1.24	10.90	36.75	50.00	4651
2	4662K-ND	1.36	11.70	38.50	54.70	4662
3	4671K-ND	1.32	10.90	36.75	26.50	4671
4	4672K-ND	1.14	10.90	36.75	20.50	4672
4	4673K-ND	1.14	10.90	36.75	20.50	4673

TO-3 Power Transistor Sockets

Fig. 1 – Chassis Mount

- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53" x .073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)

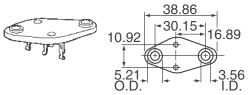

Fig. 2 – Chassis Mount

- Top Plate: Phenolic
- Base: Phenolic
- Dimensions: 1.35" x 1.00" (34.29mm x 25.40mm)
- Standoffs: None

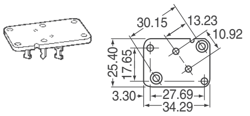

Fig. 3 – P.C. Board Mount

- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53" x .073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)

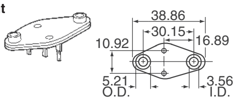

Transistor Mounting Hardware

Fig. 4 – TO-220: Complete Mounting Kit (one each of A, B, C, D, E)

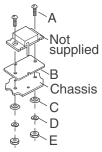

Fig. 5 – TO-3: Complete Mounting Kit (A*, B, C, D, E, F, G)

*** 6-20** Mounting Screws (A Only, 2 Required)

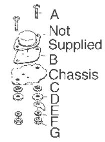

Fig.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Keystone Part No.
1	4601K-ND	2.38	2.24	2.15	4601
2	4606K-ND	2.02	1.91	1.67	4606
3	4600K-ND	2.13	2.00	1.82	4600
4	4724K-ND	2.03	1.89	1.67	4724
5	4725K-ND	2.03	1.89	1.67	4725
5	4706K-ND*	2.79/20	26.60/200		4706

molex®

TO-220 Solder Tail Transistor Sockets

P.C. Board Mount:

.100" (2.54mm) center. These three circuit transistor sockets are pre-assembled and ready for soldering to a P.C. Board. The proven double cantilever design eliminates circuit failure due to thermal expansion and/or mechanical tolerances. Linear movement of the transistor leads in the socket does not affect contact reliability.

Material:

Tin-Plated Brass, 94V-2 Rated Nylon

Fig. 1

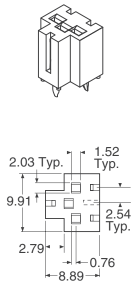

Fig. 2

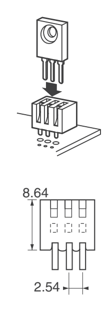

Fig.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	WM2550-ND	1.63	1.45	.97	09-48-3031
2	WM2551-ND	2.13	1.89	1.26	10-18-2031

ASSMANN Electronics

PLCC Sockets

PLCC Thru Hole: Specifications: • Current Rating: 1A • Dielectric Withstanding: 500VAC for one minute • Contact Resistance: 30mΩ maximum • Insulating Resistance: 1,000MΩ minimum • Operating Temperature: -55°C ~ 105°C **Materials:** • Body: PBT and 30% Glass Fiber, UL 94V-0 • Contacts: Phosphor bronze, tin and gold plated

PLCC Surface Mount: Specifications: • Current Rating: 1A • Withstanding Voltage: 1,000VAC • Contact Resistance: 15mΩ maximum • Insulating Resistance: 10,000MΩ minimum • Operating Temperature: -40°C ~ 105°C **Materials:** • Body: PPS, UL 94V-0 • Contacts: Phosphor bronze, matte tin plated 150U" over nickel

Fig. 1

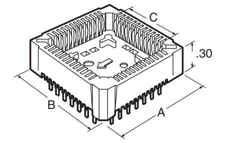

Fig. 2

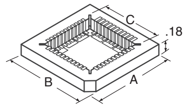

Fig.	No. of Contacts	Dimensions Inch			Digi-Key Part No.	Price Each			Assmann Part No.
		A	B	C		1	10	100	
PLCC — Thru Hole									
Tin									
1	20	0.61	0.61	0.20	AE10054-ND	.94	.74	.56	A-CCS20-Z-R
	28	0.71	0.71	0.30	AE10055-ND	1.18	.92	.70	A-CCS28-Z-R
	32	0.71	0.81	0.30	AE10056-ND	1.29	1.01	.77	A-CCS32-Z-R
	44	0.93	0.93	0.50	AE10057-ND	1.41	1.10	.84	A-CCS44-Z-R
	52	1.02	1.02	0.60	AE10058-ND	1.56	1.21	.93	A-CCS52-Z-R
	68	1.23	1.23	0.80	AE10059-ND	1.85	1.54	1.14	A-CCS68-Z-R
	84	1.42	1.42	1.00	AE10060-ND	1.98	1.65	1.22	A-CCS84-Z-R
Gold									
1	20	0.61	0.61	0.20	AE10061-ND	1.63	1.27	.97	A-CCS20-G-R
	28	0.71	0.71	0.30	AE10062-ND	1.69	1.41	1.04	A-CCS28-G-R
	32	0.71	0.81	0.30	AE10063-ND	1.76	1.46	1.08	A-CCS32-G-R
	44	0.93	0.93	0.50	AE10064-ND	2.02	1.68	1.24	A-CCS44-G-R
	52	1.02	1.02	0.60	AE10065-ND	2.28	1.89	1.40	A-CCS52-G-R
	68	1.23	1.23	0.80	AE10066-ND	2.73	2.27	1.68	A-CCS68-G-R
	84	1.42	1.42	1.00	AE10067-ND	3.06	2.54	1.88	A-CCS84-G-R
PLCC — Surface Mount									
Tin									
2	20	0.62	0.62	0.20	AE10068-ND	1.05	.74	.50	A-CCS20-Z-SM-R
	28	0.72	0.72	0.30	AE10069-ND	1.20	.84	.57	A-CCS28-Z-SM-R
	32	0.72	0.82	0.40	AE10070-ND	1.03	.80	.61	A-CCS32-Z-SM-R
	44	0.92	0.92	0.50	AE10071-ND	1.14	.89	.68	A-CCS44-Z-SM-R
	52	1.02	1.02	0.60	AE10072-ND	1.08	.84	.64	A-CCS52-Z-SM-R
	68	1.22	1.22	0.80	AE10073-ND	1.41	1.10	.84	A-CCS68-Z-SM-R
	84	1.42	1.42	1.00	AE10356-ND ***NEW!***	1.60	1.24	.95	A-CCS84-Z-SM-R

IC Sockets

Dual Wipe Solder Tail

Specifications: • Contact Resistance: 30MΩ maximum @ 100mA DC • Insulator Resistance: 1,000MΩ minimum @ 500VDC • Current Rating: 1A • Dielectric Withstanding Voltage: 500VAC for 1 minute • Operating Temperature: -55°C ~ 105°C

Materials: • Housing: PBT and 30% Glass Fiber (UL 94V-0)

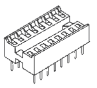

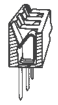

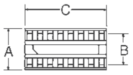

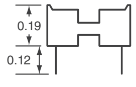

No. of Con-tacts	Con-tact Plating	Dimensions (Inch)			Digi-Key Part No.	Pricing				Assmann Part No.
		A	B	C		1	10	100	500	
6	Tin	0.39	0.30	0.30	AE1485-ND	.65	4.55	30.55	123.50	A06-LC-TT-R
	Gold	0.39	0.30	0.30	AE1486-ND	.90	6.29	42.24	170.77	A06-LCG-T-R
8	Tin	0.39	0.30	0.39	AE9986-ND	.51	3.18	18.25	73.00	A08-LC-TT-R
	Gold	0.39	0.30	0.39	AE9987-ND	.92	6.41	43.01	173.85	A08-LCG-T-R
	Tin	0.40	0.30	0.40	AE9988-ND†	.82	5.09	29.25	117.00	A08-LC-TR-R
14	Tin	0.39	0.30	0.70	AE9989-ND	.61	3.78	21.75	87.00	A14-LC-TT-R
	Gold	0.39	0.30	0.70	AE9990-ND	1.06	7.39	49.59	200.45	A14-LCG-T-R
	Tin	0.40	0.30	0.70	AE9991-ND†	.82	5.09	29.25	117.00	A14-LC-TR-R
16	Tin	0.39	0.30	0.80	AE9992-ND	.71	4.39	25.25	101.00	A16-LC-TT-R
	Gold	0.39	0.30	0.80	AE9993-ND	1.20	8.37	56.17	227.05	A16-LCG-T-R
	Tin	0.40	0.30	0.80	AE9994-ND†	.68	4.76	31.96	129.20	A16-LC-TR-R
18	Tin	0.39	0.30	0.90	AE9995-ND	.81	5.00	28.75	115.00	A18-LC-TT-R
	Gold	0.39	0.30	0.90	AE9996-ND	1.01	7.88	60.08	240.30	A18-LCG-T-R
	Tin	0.40	0.30	0.90	AE9997-ND†	.76	5.32	35.72	144.40	A18-LC-TR-R
20	Tin	0.39	0.30	1.00	AE9998-ND	.90	5.61	32.25	129.00	A20-LC-TT-R
	Gold	0.40	0.30	1.00	AE9999-ND	1.12	8.70	66.38	265.50	A20-LCG-T-R
	Tin	0.40	0.30	1.00	AE10000-ND†	.84	5.85	39.25	158.65	A20-LC-TR-R
22	Tin	0.50	0.40	1.10	AE10264-ND	.95	6.65	44.65	180.50	A22-LC-T2-R
	Gold	0.40	0.30	1.10	AE10551-ND ***NEW!***	1.23	9.53	72.68	290.70	A22-LCG-T-R
24	Tin	0.70	0.30	1.20	AE10285-ND	.79	5.50	36.90	149.15	A24-LC-7-TT-R
	Tin	0.70	0.60	1.20	AE10001-ND	.79	5.50	36.90	149.15	A24-LC-TT-R
	Gold	0.70	0.60	1.20	AE10002-ND	1.38	10.68	81.45	325.80	A24-LCG-T-R
	Tin	0.70	0.60	1.20	AE10003-ND†	1.01	7.07	47.47	191.90	A24-LC-TR-R
28	Tin	0.70	0.60	1.40	AE10004-ND	.93	6.48	43.48	175.75	A28-LC-TT-R
	Tin	0.70	0.30	1.40	AE10286-ND	.93	6.48	43.48	175.75	A28-LC-7-TT-R
	Gold	0.70	0.60	1.40	AE10005-ND	1.60	12.42	94.73	378.90	A28-LCG-T-R
	Tin	0.70	0.60	1.40	AE10006-ND†	1.19	8.30	55.70	225.15	A28-LC-TR-R
32	Tin	0.70	0.60	1.60	AE10007-ND†	1.03	7.97	60.75	243.00	A32-LC-TR-R
	Tin	0.70	0.60	1.60	AE10354-ND ***NEW!***	1.07	7.46	50.06	202.35	A32-LC-TT-R
	Gold	0.70	0.60	1.60	AE10549-ND ***NEW!***	1.82	14.10	107.55	430.20	A32-LCG-T-R
40	Tin	0.70	0.60	2.00	AE10008-ND	1.03	7.97	60.75	243.00	A40-LC-TT-R
	Gold	0.70	0.60	2.00	AE10009-ND	1.96	16.31	120.80	483.20	A40-LCG-T-R
	Tin	0.70	0.60	2.00	AE10010-ND†	1.29	10.03	76.50	306.00	A40-LC-TR-R
48	Gold	0.70	0.60	2.40	AE10550-ND ***NEW!***	2.24	18.58	137.60	550.40	A48-LCG-T-R

† Retentive Leg Version

IC Sockets Machine Pin

With gold plated precision spring contacts, open frame, solder pin and wire wrap terminals. **Contacts Spring:** Copper alloy, 4 finger contact. Surface gold over nickel. Absolute protection against capillary action. Connecting pins: brass, solder version. **Mechanical and Electrical Data:** Depth of Insertion: 2.3mm ~ 3.7mm. Vibration: 20g after MIL-STD-202. Shock: 150g to MIL-STD-202. Insertion Frequency: >1000. Transitional Resistance after 100 insertion cycles: ≤12mΩ. Capacity between adjacent contacts: <0.9pF. Capacity between opposite adjacent contacts: <0.4pF. Air and creepage space between adjacent contacts: >0.4mm. **Insulators:** Polyester GV, VO self-extinguishing, UL 94. Insulation Resistance: 10^{12}Ω. **Operating Temperature Range:** -65°C ~ 150°C. Retains shape in solder bath. Resistant to detergent. **Contact Plating:** Pin: Tin; Clip: Gold.

Fig. 1

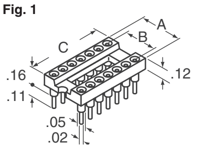

Fig. 2

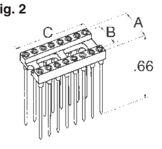

Fig.	No. of Con-tacts	Dimensions Inch			Digi-Key Part No.	Price Each			Assmann Part No.
		A	B	C		1	10	100	
Solder Tail									
Gold Flash									
1	6	0.40	0.30	0.40	AE10022-ND	.88	.55	.32	AR06-HZL-TT-R
	8	0.40	0.30	0.40	AE10011-ND	.81	.57	.39	AR08-HZL-TT-R
	14	0.40	0.30	0.70	AE10012-ND	1.00	.78	.59	AR14-HZL-TT-R
	16	0.40	0.30	0.80	AE10013-ND	1.19	.92	.71	AR16-HZL-TT-R
	18	0.40	0.30	0.90	AE10014-ND	1.30	1.02	.78	AR18-HZL-TT-R
	20	0.40	0.30	1.00	AE10015-ND	1.43	1.11	.85	AR20-HZL-TT-R
	24	0.70	0.60	1.20	AE10016-ND	1.76	1.37	1.04	AR24-HZL-TT-R
	28	0.70	0.60	1.40	AE10017-ND	1.83	1.52	1.13	AR28-HZL-TT-R
	40	0.70	0.60	2.00	AE10018-ND	2.31	1.92	1.42	AR40-HZL-TT-R
	48	0.70	0.60	2.40	AE10019-ND	2.84	2.37	1.75	AR48-HZL-TT-R
10µ" Gold									
1	6	0.40	0.30	0.30	AE10021-ND	1.13	.79	.53	AR06-HZL/01-TT-R
	8	0.40	0.30	0.40	AE10175-ND	1.09	.85	.65	AR08-HZL/01-TT-R
	14	0.40	0.30	0.70	AE10023-ND	1.70	1.42	1.05	AR14-HZL/01-TT-R
	16	0.40	0.30	0.80	AE10024-ND	1.95	1.62	1.20	AR16-HZL/01-TT-R
	20	0.40	0.30	1.00	AE10025-ND	2.52	2.09	1.55	AR20-HZL/01-TT-R
	24	0.70	0.60	1.20	AE10026-ND	2.96	2.46	1.83	AR24-HZL/01-TT-R
	24	0.40	0.30	1.20	AE10027-ND	2.96	2.46	1.83	AR24-HZL/7/01-TT-R
	28	0.70	0.60	1.40	AE10028-ND	3.08	2.55	1.91	AR28-HZL/01-TT-R
	28	0.40	0.30	1.40	AE10029-ND	2.91	2.42	1.81	AR28-HZL/7/01-TT-R
	32	0.70	0.60	1.60	AE10030-ND	3.33	2.76	2.07	AR32-HZL/01-TT-R
	40	0.70	0.60	2.00	AE10031-ND	4.18	3.47	2.60	AR40-HZL/01-TT-R
30µ" Gold									
1	6	0.40	0.30	0.30	AE10033-ND	1.52	1.18	.90	AR06-HZL/07-TT-R
	8	0.40	0.30	0.40	AE10034-ND	1.75	1.45	1.08	AR08-HZL/07-TT-R
	14	0.40	0.30	0.70	AE10035-ND	3.00	2.50	1.85	AR14-HZL/07-TT-R
	16	0.40	0.30	0.80	AE10036-ND	3.11	2.58	1.94	AR16-HZL/07-TT-R
	18	0.40	0.30	0.90	AE10037-ND	3.40	2.82	2.12	AR18-HZL/07-TT-R
	20	0.40	0.30	1.00	AE10038-ND	3.91	3.24	2.43	AR20-HZL/07-TT-R
	28	0.70	0.60	1.40	AE10041-ND	5.43	4.50	3.38	AR28-HZL/07-TT-R
	28	0.40	0.30	1.40	AE10042-ND	5.14	4.26	3.20	AR28-HZL/7/07-TT-R
	32	0.70	0.60	1.60	AE10043-ND	5.07	4.20	3.15	AR32-HZL/07-TT-R
	40	0.70	0.60	2.00	AE10044-ND	5.60	4.74	3.67	AR40-HZL/07-TT-R
Wire Wrap									
2	8	0.40	0.30	0.40	AE10046-ND	1.69	1.32	1.01	AR08-HZW/T-R
	14	0.40	0.30	0.70	AE10047-ND	2.53	2.10	1.56	AR14-HZW/T-R
	16	0.40	0.30	0.80	AE10048-ND	2.90	2.41	1.79	AR16-HZW/T-R
	18	0.40	0.30	0.90	AE10049-ND	2.90	2.40	1.80	AR18-HZW/T-R
	20	0.40	0.30	1.00	AE10050-ND	3.55	2.94	2.21	AR20-HZW/T-R
	24	0.70	0.60	1.20	AE10051-ND	3.86	3.20	2.40	AR24-HZW/T-R
	28	0.70	0.60	1.40	AE10052-ND	4.51	3.74	2.80	AR28-HZW/T-R
	40	0.70	0.60	2.00	AE10053-ND	6.39	5.30	3.97	AR40-HZW/T-R

OK Industries
Division of Jonard Industries Corp.

IC Insertion/Extraction Tools

Fig. 1

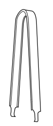

Fig. 2

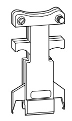

Fig. 3

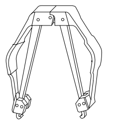

Fig.	Description	Digi-Key Part No.	Price Each
1	Extractor Tool, (8 ~ 24 pins)	K157-ND	3.15
	Extractor Tool, (8 ~ 24 pins), PVC Coating	K547-ND ***NEW!***	2.10
2	Extractor Tool, (24 ~ 40 pins)	K158-ND	21.77
3	Universal PLCC Extraction Tool ESD Safe	K293-ND	20.16
	Low Cost Universal PLCC Extractor	K374-ND	10.16
—	Insertion and Extraction Kit	K159-ND†	79.83

† See Digi-Key website for contents of kit K159-ND.

3M Zero Insertion Force (ZIF) I.C. Sockets

ZIP DIP

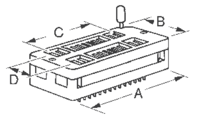

Econo ZIF

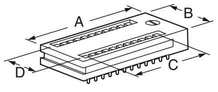

ZIP DIP Receptacles

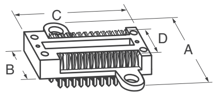

Universal DIP Socket

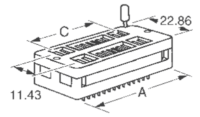

PGA ZIP Socket

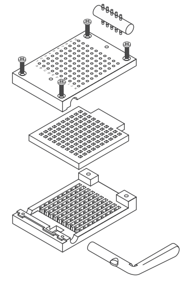

Note: Contacts Ordered Separately

Shrink DIP Socket

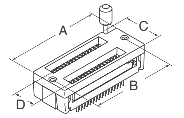

.070" Pin to Pin Pitch

SOIC Lidded Socket

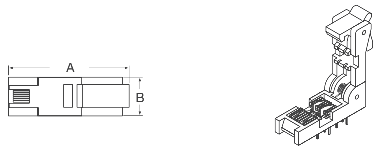

In-Line ZIP Strip Socket

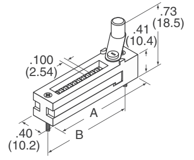

ZIP DIP SOCKETS:

Features: • For DIPs with .100" (2.54mm) lead spacing • Pin counts for 14 ~ 64 leads • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

ECONO ZIF SOCKETS:

Designed for OEM/end use applications where field replacement or programming of DIPs is required. The patented ZIF feature uses screwdriver rotation of a cam (instead of a lever) for security against vibration or accidental unloading. Leads are on .100" centers.

ZIP DIP RECEPTACLES:

Features: • Matching receptacle for every ZIP DIP Socket, including "Universal DIP" and "Shrink DIP" • Mounting flanges hold receptacle to board • Pre-tapped holes in receptacle body mate with screw-hole in socket to hold socket firmly to receptacle (2 screws provided with each receptacle)

Physical Specifications: • Insulation Material: Glass Filled Polysulfone, Flammability Rating: UL94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (.076µm) Gold over 50µ" (1.3 µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

UNIVERSAL DIP SOCKETS .100 CENTERS:

Features: • For DIPs with .100" lead spacing • Extra wide contact zone allows insertion of DIPs with distance between rows from .300" ~ .600" • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

SHRINK DIP SOCKETS:

Features: • For DIPs with .070" (1.78mm) lead spacing • Pin counts from 28 ~ 90 leads • Lever actuated zero insertion force mechanism

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: Gold Flash over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

SOIC SOCKETS LIDDED:

Features: • Lid can be actuated from top or front and is compatible with automated load/unload equipment • Compact envelope and side to side stackability maximize broad density • Tweezer slot for easy manual loading/unloading • Lid applies 80 grams normal force per lead for maximum electrical reliability • Accepts Gull Wing JEDEC devices sizes in .150" (3.81mm) and .300" (7.62mm) body widths

Physical Specifications: • Insulation Material: Glass Filled Polyethersulfone; Flammability: UL 94V-0 • Color: Black • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

IN-LINE ZIP STRIP SOCKETS:

Features: • For single-in-line packages on .100" (2.54mm) centers • SIP pin counts from 10 ~ 36 leads • Lever actuated zero insertion force mechanism • Accepts pins up to .025" (0.6mm) square

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

PGA ZIP SOCKETS:

Features: • Available in 10 x 10 matrix ~ 25 x 25 matrix • Used when only a few test sockets are needed • Provides individual components ready for assembly • Open pattern top plate; load only those contacts needed for your specific device pin pattern

Physical Specifications: • Insulation Material: Polyethersyfone (PES); Flammability: UL 94V-0V • Color: Black • Contact Material: Beryllium Copper • Plating Options: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

Note: Contacts Ordered Separately

No. of Pins	Contact Plating	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		3M Part No.
		A	B	C	D		1	10	
				ZIP DIP Sockets					
14	Gold	1.30 (33.0)	.60 (15.2)	.60 (15.2)	.300 (7.62)	3M1402-ND	10.17	80.69	214-3339-00-0602J
16	Gold	1.39 (35.3)	.60 (15.2)	.70 (17.8)	.300 (7.62)	3M1602-ND	10.58	83.98	216-3340-00-0602J
18	Gold	1.49 (37.8)	.60 (15.2)	.80 (20.3)	.300 (7.62)	3M1802-ND	10.99	87.28	218-3341-00-0602J
20	Gold	1.59 (40.4)	.60 (15.2)	.90 (22.9)	.300 (7.62)	3M2002-ND	10.78	85.52	220-3342-00-0602J
22	Gold	1.69 (42.9)	.70 (17.8)	1.00 (25.4)	.400 (10.16)	3M2202-ND	11.85	94.06	222-3343-00-0602J
24	Gold	1.78 (45.3)	.90 (22.9)	1.10 (27.9)	.600 (15.24)	3M2402-ND	10.52	83.54	224-1275-00-0602J
24	Gold	1.79 (45.5)	.60 (15.2)	1.10 (27.9)	.300 (7.62)	3M5000-ND	14.82	118.56	224-5248-00-0602J
28	Gold	1.99 (50.5)	.90 (22.9)	1.30 (33.0)	.600 (15.24)	3M2802-ND	11.04	87.57	228-1277-00-0602J
28	Gold	1.99 (50.5)	.70 (17.8)	1.30 (33.0)	.400 (10.16)	3M5001-ND	15.04	120.32	228-4817-00-0602J
32	Gold	2.19 (55.5)	.90 (22.9)	1.50 (38.1)	.600 (15.24)	3M5076-ND	14.60	116.80	232-1285-00-0602J
40	Gold	2.58 (65.6)	.90 (22.9)	1.90 (48.3)	.600 (15.24)	3M4002-ND	13.49	107.03	240-1280-00-0602J
64	Gold	3.95 (100.3)	1.30 (33.0)	3.10 (78.7)	.900 (22.86)	3M6402-ND	21.10	167.49	264-4493-00-0602J
40	Gold	2.58 (65.5)	1.30 (33.0)	1.90 (48.3)	1.00 (25.4)	3M5002-ND	20.60	164.80	240-3639-00-0602J
42	Gold	2.68 (68.2)	.90 (22.9)	2.00 (50.8)	.600 (15.24)	3M5003-ND	16.44	131.52	242-1281-00-0602J
48	Gold	2.98 (75.8)	.90 (22.9)	2.30 (58.4)	.600 (15.24)	3M5004-ND	20.50	164.00	248-1282-00-0602J
				Econo ZIF Sockets					
16	Gold	1.10 (27.94)	.50 (12.70)	.700 (17.78)	.300 (7.62)	3M1603-ND	6.12	53.29	216-6278-00-3303
				ZIP DIP Receptacles — Solder Tail with Flanges					
14	Gold	1.00 (25.4)	.60 (15.2)	1.28 (32.5)	.300 (7.62)	3M1401-ND	9.56	72.30	214-3339-09-0602J
16	Gold	.96 (24.4)	.56 (14.2)	1.37 (34.8)	.300 (7.62)	3M1601-ND	9.96	75.33	216-3340-09-0602J
18	Gold	.95 (24.1)	.55 (14.0)	1.49 (37.8)	.300 (7.62)	3M1801-ND	9.83	74.40	218-3341-09-0602J
20	Gold	1.00 (25.4)	.60 (15.2)	1.58 (40.1)	.300 (7.62)	3M2001-ND	10.22	77.28	220-3342-09-0602J
22	Gold	1.06 (26.9)	.65 (16.5)	1.69 (42.9)	.400 (10.16)	3M2201-ND	10.62	80.31	222-3343-09-0602J
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M2401-ND	10.01	75.75	224-1275-09-0602J
24	Gold	.96 (24.4)	.56 (14.2)	1.77 (45.0)	.300 (7.62)	3M5021-ND	11.28	90.24	224-5248-09-0602J
28	Gold	1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M2801-ND	10.47	79.23	228-1277-09-0602J
28	Gold	1.09 (27.9)	.70 (17.8)	1.59 (40.5)	.400 (10.16)	3M5026-ND	18.30	146.40	228-1290-09-0602J
28	Gold	1.06 (26.9)	.66 (16.8)	1.98 (50.3)	.400 (10.16)	3M5028-ND	13.98	111.84	228-4817-09-0602J
32	Gold	1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5030-ND	11.66	93.28	232-1285-09-0602J
40	Gold	1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M4001-ND	13.86	104.87	240-1280-09-0602J
40	Gold	1.66 (42.2)	1.26 (32.0)	2.58 (65.5)	1.00 (25.4)	3M5037-ND	16.44	131.52	240-3639-09-0602J
42	Gold	1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5039-ND	14.34	114.72	242-1281-09-0602J
42	Gold	1.30 (33.0)	.90 (22.9)	2.08 (52.9)	.600 (15.24)	3M5043-ND	14.14	113.12	242-1293-09-0602J
48	Gold	1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5045-ND	15.14	121.12	248-1282-09-0602J
64	Gold	1.70 (43.2)	1.30 (33.0)	3.95 (100.3)	.900 (22.86)	3M6401-ND	20.91	158.19	264-4493-09-0602J
64	Gold	1.52 (38.5)	1.11 (28.3)	2.85 (72.5)	.800 (20.32)	3M5049-ND	20.36	162.88	264-1300-09-0602J
90	Gold	1.61 (40.8)	1.19 (30.2)	3.77 (95.7)	.900 (22.86)	3M5052-ND	31.94	255.52	290-1294-09-0602J
				ZIP DIP Receptacles — Wire Wrap with Flanges					
14	Gold	1.00 (25.4)	.60 (15.2)	1.28 (32.5)	.300 (7.62)	3M5013-ND	12.32	98.56	214-3339-19-0602J
16	Gold	.96 (24.4)	.56 (14.2)	1.37 (34.8)	.300 (7.62)	3M5014-ND	12.98	103.84	216-3340-19-0602J
18	Gold	.95 (24.1)	.55 (14.0)	1.49 (37.8)	.300 (7.62)	3M5015-ND	13.66	109.28	218-3341-19-0602J
20	Gold	1.00 (25.4)	.60 (15.2)	1.58 (40.1)	.300 (7.62)	3M5016-ND	14.38	115.04	220-3342-19-0602J

(Continued)

3M Zero Insertion Force (ZIF) I.C. Sockets *(Cont.)*

No. of Pins	Contact Plating	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	10	3M Part No.
22	Gold	1.06 (26.9)	.65 (16.5)	1.69 (42.9)	.400 (10.16)	3M5017-ND	14.24	113.92	222-3343-19-0602J
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5018-ND	12.82	102.56	224-1275-19-0602J
24	Gold	.96 (24.4)	.56 (14.2)	1.77 (45.0)	.300 (7.62)	3M5022-ND	14.86	118.88	224-5248-19-0602J
28	Gold	1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5023-ND	14.38	115.04	228-1277-19-0602J
28	Gold	1.06 (26.9)	.66 (16.8)	1.98 (50.3)	.400 (10.16)	3M5029-ND	16.66	133.28	228-4817-19-0602J
32	Gold	1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5031-ND	24.44	195.52	232-1285-19-0602J
40	Gold	1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5034-ND	17.50	140.00	240-1280-19-0602J
40	Gold	1.66 (42.2)	1.26 (32.0)	2.58 (65.5)	1.000 (25.4)	3M5038-ND	21.36	170.88	240-3639-19-0602J
42	Gold	1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5040-ND	18.98	151.84	242-1281-19-0602J
48	Gold	1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5046-ND	20.14	161.12	248-1282-19-0602J
64	Gold	1.70 (43.2)	1.30 (33.0)	3.95 (100.3)	.900 (22.86)	3M5051-ND	29.34	234.72	264-4493-19-0602J
				ZIP DIP Receptacles — Solder Tail without Flanges					
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5019-ND	10.22	81.76	224-1275-29-0602J
28	Gold	1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5024-ND	10.66	85.28	228-1277-29-0602J
28	Gold	1.09 (27.9)	.70 (17.8)	1.59 (40.5)	.400 (10.16)	3M5027-ND	10.60	84.80	228-1290-29-0602J
32	Gold	1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5032-ND	11.66	93.28	232-1285-29-0602J
40	Gold	1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5035-ND	14.16	113.28	240-1280-29-0602J
42	Gold	1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5041-ND	14.34	114.72	242-1281-29-0602J
42	Gold	1.30 (33.0)	.90 (22.9)	2.08 (52.9)	.600 (15.24)	3M5044-ND	31.10	248.80	242-1293-29-0602J
48	Gold	1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5047-ND	15.14	121.12	248-1282-29-0602J
64	Gold	1.52 (38.5)	1.11 (28.3)	2.85 (72.5)	.800 (20.32)	3M5050-ND	20.30	162.40	264-1300-29-0602J
90	Gold	1.61 (40.8)	1.19 (30.2)	3.77 (95.7)	.900 (22.86)	3M5053-ND	28.22	225.76	290-1294-29-0602J
				ZIP DIP Receptacles — Wire Wrap without Flanges					
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5020-ND	12.82	102.56	224-1275-39-0602J
28	Gold	1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5025-ND	14.38	115.04	228-1277-39-0602J
32	Gold	1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5033-ND	14.96	119.68	232-1285-39-0602J
40	Gold	1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5036-ND	17.50	140.00	240-1280-39-0602J
42	Gold	1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5042-ND	18.98	151.84	242-1281-39-0602J
48	Gold	1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5048-ND	20.14	161.12	248-1282-39-0602J
				Universal DIP Sockets					
24	Gold	1.77 (45.0)	—	1.10 (27.94)	—	3M2406-ND	13.06	103.64	224-1286-00-0602J
28	Gold	1.99 (50.5)	—	1.30 (33.02)	—	3M2806-ND	16.60	131.78	228-1371-00-0602J
32	Gold	2.19 (56.6)	—	1.50 (38.10)	—	3M5005-ND	20.78	166.24	232-1287-00-0602J
40	Gold	2.59 (65.8)	—	1.90 (48.26)	—	3M4006-ND	20.44	162.20	240-1288-00-0602J
42	Gold	2.69 (68.2)	—	2.00 (50.80)	—	3M5006-ND	26.04	208.32	242-1289-00-0602J
				Shrink DIP Sockets — .070" Pin to Pin Pitch					
28	Gold	1.60 (40.5)	1.42 (36.1)	.70 (17.8)	.40 (10.16)	3M5007-ND	13.90	111.20	228-1290-00-0602J
32	Gold	1.73 (44.0)	1.56 (39.6)	.70 (17.8)	.40 (10.16)	3M5008-ND	19.54	156.32	232-1291-00-0602J
42	Gold	2.10 (52.9)	1.90 (48.5)	.90 (22.9)	.60 (15.24)	3M5009-ND	19.06	152.48	242-1293-00-0602J
56	Gold	2.57 (65.4)	2.40 (61.0)	.90 (22.9)	.60 (15.24)	3M5010-ND	25.90	207.20	256-1292-00-0602J
64	Gold	2.90 (72.5)	2.68 (68.0)	1.10 (28.3)	.80 (20.70)	3M5011-ND	25.18	201.44	264-1300-00-0602J
90	Gold	3.77 (95.7)	3.59 (91.3)	1.23 (31.3)	.90 (22.86)	3M5012-ND	40.26	322.08	290-1294-00-3302J
				SOIC Lidded Sockets					
8	Gold	1.45 (36.8)	.47 (11.9)	—	—	3M5054-ND	19.02	152.16	208-7391-55-1902
14	Gold	1.45 (36.8)	.47 (11.9)	—	—	3M5055-ND	20.24	161.92	214-7390-55-1902
16	Gold	1.59 (40.4)	.57 (14.5)	—	—	3M5077-ND	21.48	171.84	216-7224-55-1902
16	Gold	1.45 (36.8)	.47 (11.9)	—	—	3M5078-ND	21.48	171.84	216-7383-55-1902
18	Gold	1.59 (40.4)	.57 (14.5)	—	—	3M5056-ND	22.04	176.32	218-7223-55-1902
20	Gold	1.59 (40.4)	.57 (14.5)	—	—	3M5057-ND	23.28	186.24	220-7201-55-1902
24	Gold	1.69 (42.9)	.80 (20.3)	—	—	3M5058-ND	25.72	205.76	224-7397-55-1902
28	Gold	1.69 (42.9)	.80 (20.3)	—	—	3M5059-ND	28.12	224.96	228-7396-55-1902
28	Gold	1.69 (42.9)	.80 (20.3)	—	—	3M5060-ND	28.12	224.96	228-7474-55-1902
				In-Line ZIP Strip Sockets					
10	Gold	1.77 (45.0)	1.60 (40.8)	—	—	3M5061-ND	26.10	208.80	210-2599-00-0602
20	Gold	2.77 (70.4)	2.57 (65.3)	—	—	3M5062-ND	29.44	235.52	220-2600-00-0602
24	Gold	3.15 (80.0)	2.97 (75.4)	—	—	3M5063-ND	30.50	244.00	224-5809-00-0602
32	Gold	3.97 (100.8)	3.81 (96.8)	—	—	3M5064-ND	32.64	261.12	232-2601-00-0602
36	Gold	4.35 (110.5)	4.17 (105.9)	—	—	3M5065-ND	33.64	269.12	236-6225-00-0602

Matrix Size	Description	Digi-Key Part No.	Pricing 1	10	3M Part No.
		PGA ZIP Sockets			
10 x 10	Socket Kit without Contacts	3M5066-ND	29.12	232.96	200-6310-9UN-1900
11 x 11	Socket Kit without Contacts	3M5067-ND	29.20	233.60	200-6311-9UN-1900
13 x 13	Socket Kit without Contacts	3M5068-ND	32.00	256.00	200-6313-9UN-1900
15 x 15	Socket Kit without Contacts	3M5069-ND	53.06	424.48	200-6315-9UN-1900
17 x 17	Socket Kit without Contacts	3M5070-ND	45.28	362.24	200-6317-9UN-1900
19 x 19	Socket Kit without Contacts	3M5071-ND	57.08	456.64	200-6319-9UN-1900
21 x 21	Socket Kit without Contacts	3M5072-ND	71.12	568.96	200-6321-9UN-1900
25 x 25	Socket Kit without Contacts	3M5073-ND	91.38	731.04	200-6325-9UN-1900
—	Socket Contact - BeCu/Au Plated	3M5074-ND	.22	1.76	300-6300-CNA-0002B
—	Extra Hole Plugs - Set of 10	3M5075-ND	1.50	12.00	200-4660-14-1900

DIP Sockets

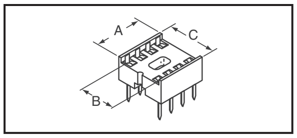

Features:
- Dual leaf, high compression contact provides reliable termination • Side and end stackable

Specifications:
- Insulation Material: Polyester glass filled • Flammability: UL 94V-0 • Color: Black • Underplating: 35µ" min. Nickel overall • Surface Plating: 135µ" min. Matte Tin overall • Current Rating: 1 Amp • Temperature Rating: -25°C ~ 85°C

No. of Contact	Dimensions — Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	3M Part No.
			Straight Tail					
8	.395 (10.03)	.300 (7.62)	.400 (10.16)	3M5461-ND	.21	1.82	14.70	4808-3000-CP
14	.695 (17.65)	.300 (7.62)	.400 (10.16)	3M5462-ND	.18	1.56	12.60	4814-3000-CP
16	.795 (20.19)	.300 (7.62)	.400 (10.16)	3M5463-ND	.18	1.56	12.60	4816-3000-CP
18	.895 (22.73)	.300 (7.62)	.400 (10.16)	3M5464-ND	.24	2.08	16.80	4818-3000-CP
20	.995 (25.27)	.300 (7.62)	.400 (10.16)	3M5465-ND	.24	2.08	16.80	4820-3000-CP
24	1.195 (30.35)	.300 (7.62)	.400 (10.16)	3M5466-ND	.27	2.34	18.90	4824-3000-CP
24	1.195 (30.35)	.600 (15.24)	.700 (17.78)	3M5467-ND	.27	2.34	18.90	4824-6000-CP
28	1.395 (35.43)	.600 (15.24)	.700 (17.78)	3M5469-ND	.27	2.34	18.90	4828-6000-CP
32	1.595 (40.51)	.600 (15.24)	.700 (17.78)	3M5470-ND	.33	2.86	23.10	4832-6000-CP
40	1.995 (50.67)	.600 (15.24)	.700 (17.78)	3M5471-ND	.42	3.64	29.40	4840-6000-CP
48	2.395 (60.83)	.600 (15.24)	.700 (17.78)	3M5472-ND	.54	4.68	37.80	4848-6000-CP

No. of Contact	Dimensions — Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	3M Part No.
			Kinked Tail					
8	.395 (10.03)	.300 (7.62)	.400 (10.16)	3M5473-ND	.18	1.56	12.60	4808-3004-CP
14	.695 (17.65)	.300 (7.62)	.400 (10.16)	3M5474-ND	.18	1.56	12.60	4814-3004-CP
16	.795 (20.19)	.300 (7.62)	.400 (10.16)	3M5475-ND	.21	1.82	14.70	4816-3004-CP
18	.895 (22.73)	.300 (7.62)	.400 (10.16)	3M5476-ND	.27	2.34	18.90	4818-3004-CP
20	.995 (25.27)	.300 (7.62)	.400 (10.16)	3M5477-ND	.27	2.34	18.90	4820-3004-CP
24	1.195 (30.35)	.300 (7.62)	.400 (10.16)	3M5478-ND	.33	2.86	23.10	4824-3004-CP
28	1.395 (35.43)	.300 (7.62)	.400 (10.16)	3M5480-ND	.33	2.86	23.10	4828-3004-CP
24	1.195 (30.35)	.600 (15.24)	.700 (17.78)	3M5479-ND	.33	2.86	23.10	4824-6004-CP
28	1.395 (35.43)	.600 (15.24)	.700 (17.78)	3M5481-ND	.45	3.90	31.50	4828-6004-CP
32	1.595 (40.51)	.600 (15.24)	.700 (17.78)	3M5482-ND	.42	3.64	29.40	4832-6004-CP
40	1.995 (50.67)	.600 (15.24)	.700 (17.78)	3M5483-ND	.54	4.68	37.80	4840-6004-CP
48	2.395 (60.83)	.600 (15.24)	.700 (17.78)	3M5484-ND	.63	5.46	44.10	4848-6004-CP

OEM Type "A" LCC Sockets

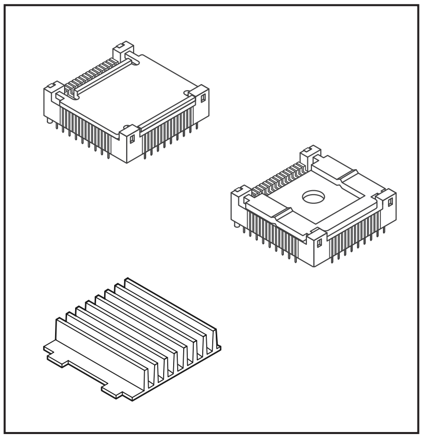

Features:

- Accepts JEDEC leadless type "A" ceramic chip carriers
- Variety of lid options available
- "U" lid for I.C.E. adapter I/O cable egress
- Heat Sink(s) acceptable and available
- Thruster spring helps register substrate three corner notches, maintain centering
- Polarizing post on bottom of socket
- Through hole contact tails
- No tools required for package insertion/removal
- Full contact probe-ability
- High temperature PPS plastic and BeCu contacts for rugged performance

Physical Specifications:

• Insulation: • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL94V-0 • Color: Black • Lid Material: Aluminum • Latch Material: Stainless Steel • Thruster & Contact Material: Beryllium Copper (C172) Plating; Underplate: 50µ" (1.27µm) Nickel; Wiping Area: 30µ" (0.76µm) Gold; Solder Tails: 30µ" (0.76µm) Gold • Marking: Raised Letters

Electrical Specifications:

• Current Rating: 1 Amp • Insulation Resistance: >1x10^{12}Ω • Withstanding Voltage: 1,000 Vrms at Sea Level

Environmental Specifications:

• Operating Temperature Rating: -55° ~ 105°C

Lid Type	No./ Cont.	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
LCC Sockets					
Full	68	3M6809A-ND	12.47	108.65	268-5401-00-1102JH
LCC Socket Lid					
Finned Heat Sink	—	3MLLSH-ND	2.67	23.24	268-5401-52-0000

IC Test Clips

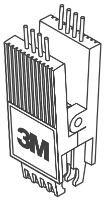

923690-08-ND Shown

Features:

- Simplifies prototype and production testing, field service work, and Quality Control.
- One-piece body for each DIP size. TC-14 fits 14-pin DIP, etc.
- High reliability Gold contacts.
- Proven 770 Alloy contacts.
- Rugged, engineering-grade thermoplastic body molded around contact pins
- Knife Edge contacts concentrate high normal force in a small area that break through oxides and conformal coatings

No. of Pins	Row to Row (Inch)	Nail-Head Leads Digi-Key Part No.	Price Each	Headless Leads Digi-Key Part No.	Price Each
Alloy 770					
8	.3	923695-ND	11.89	923690-08-ND	12.72
14	.3	923698-ND	11.99	923690-14-ND	13.05
16	.3	923700-ND	12.10	923690-16-ND	13.19
16	.5/.6	923702-ND	20.10	—	—
18	.3	923703-ND	17.00	923690-18-ND	18.20
20	.3	923704-ND	17.79	923690-20-ND	19.04
24	.5/.6	923714-ND	23.15	923690-24-ND	24.77
24	.3	—	—	923689-24-ND	24.77
28	.5/.6	923718-ND	27.79	923690-28-ND	29.74
28	.3	923717-ND	22.85	923689-28-ND	29.74
36	.5/.6	923720-ND	27.97	—	—
40	.5/.6	923722-ND	32.36	923690-40-ND	34.62
Gold Plated					
8	.3	923743-08-ND	15.44	923739-08-ND	15.44
14	.3	923743-14-ND	15.85	923739-14-ND	15.85
16	.3	923743-16-ND	16.25	923739-16-ND	16.25
18	.3	923743-18-ND	22.00	923739-18-ND	22.84
20	.3	923743-20-ND	28.21	923739-20-ND	26.24
24	.5/.6	923743-24-ND	30.19	923739-24-ND	31.09
24	.3	923742-24-ND	30.19	923738-24-ND	30.19
28	.5/.6	923743-28-ND	36.31	923739-28-ND	40.12
28	.3	923742-28-ND	36.31	923738-28-ND	36.31
40	.5/.6	923743-40-ND	42.56	923739-40-ND	42.56
48	.5/.6	—	—	923739-48-ND	56.98
64	.9	—	—	923739-64-ND	65.18

No. of Pins	Description	Digi-Key Part No.	Price Each
Knife Edge Gold Plated — RoHS Compliant			
8	.300 Knife Edge Test Clip	927739-08-ND	24.40
16	.300 Knife Edge Test Clip	927739-16-ND	27.71
18	.300 Knife Edge Test Clip	927739-18-ND	37.51
20	.300 Knife Edge Test Clip	927739-20-ND	43.76
22	.300 Knife Edge Test Clip	927738-22-ND	47.83
24	.300 Knife Edge Test Clip	927738-24-ND	50.41
28	.300 Knife Edge Test Clip	927738-28-ND	61.11
22	.600 Knife Edge Test Clip	927739-22-ND	47.83
24	.600 Knife Edge Test Clip	927739-24-ND	52.78
28	.600 Knife Edge Test Clip	927739-28-ND	61.11
40	.600 Knife Edge Test Clip	927739-40-ND	72.15

Surface Mount Test Clips

by 3M Electronic Specialty Products

Features:

- Allow safe, convenient, fast and easy testing of normally hard-to-access. Small Outline Integrated Circuits (SOICs)
- Eight sizes available for .30" (7.62mm) and .15" (3.81mm) package sizes
- Helical compression springs and insulating contact combs ensure contact integrity during testing
- Permits devices stacked as close as .0505" (1.28mm) end-to-end to be tested simultaneously
- Standard .025" (.64mm) square contacts on .10" (2.54mm) centers at the probe end of the clip easily accept test probes or single row female socket connectors
- Steel hinge pin and glass filled polyester body provide long service life
- Available with alloy 764 unplated and gold plated leads
- Allows safe, convenient testing of Plastic Leaded Chip Carrier (PLCC) style ICs
- All four sides of test clip open simultaneously for fast and easy attachment to PLCC being tested
- Stays securely clamped to PLCC until removed
- Helical compression springs and insulating contact combs ensure contact integrity during testing
- Permits testing of ICs with as little as .200" (5.08mm) row to row spacing between devices
- Staggered contact rows on .100" (2.54mm) centers
- Industry standard .025" (.64mm) square contact pins on the .100" (2.54mm) centers
- Available with alloy 764 leads and gold plated leads.

No. of Pins	Description	Narrow Digi-Key Part No.	Price Each	Wide Digi-Key Part No.	Price Each
.150" SOIC				***.300" SOIC***	
8	Alloy 764	923650-08-ND	14.20	—	—
14	Alloy 764	923650-14-ND	14.35	—	—
16	Alloy 764	923650-16-ND	14.75	923660-16-ND	14.95
18	Alloy 764	—	—	923660-18-ND	15.80
20	Alloy 764	—	—	923660-20-ND	17.35
24	Alloy 764	—	—	923660-24-ND	17.90
28	Alloy 764	—	—	923660-28-ND	19.19
8	Gold Plated	923655-08-ND	14.75	—	—
14	Gold Plated	923655-14-ND	16.34	—	—
16	Gold Plated	923655-16-ND	16.19	923665-16-ND	17.15
18	Gold Plated	—	—	923665-18-ND	17.29
20	Gold Plated	—	—	923665-20-ND	17.89
24	Gold Plated	—	—	923665-24-ND	19.74
28	Gold Plated	—	—	923665-28-ND	21.20

No. of Pins	Description	PLCC Digi-Key Part No.	Price Each
PLCC			
20	Alloy 764	923670-20-ND	39.32
28	Alloy 764	923670-28-ND	41.69
44	Alloy 764	923670-44-ND	52.91
68	Alloy 764	923670-68-ND	71.55
20	Gold Plated	923675-20-ND	43.36
28	Gold Plated	923675-28-ND	51.33
44	Gold Plated	923675-44-ND	56.73
68	Gold Plated	923675-68-ND	66.85
84	Gold Plated	923675-84-I-ND	72.01

PLCC Chip Carrier Sockets

Features:

• Accepts chip carriers conforming to JEDEC outline MO-047 for square and MO-052 for rectangular • High temperature insulator compatible with IR reflow and wave soldering • Compatible with automated loading equipment • Open top design allows unrestricted air flow • Molded slots for ease of device extraction.

Physical Specifications:

• Insulation: • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL 94V-0 • Color: Black • Contact Material: Phosphor Bronze • Plating: Underplating: 50µ" (1.27µm) Nickel - Overall; Wiping Area: 160µ" (4.06 µm) Matte Tin

Fig. 1 — Thru-Hole Mount

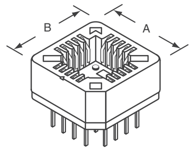

Fig. 2 — Surface Mount

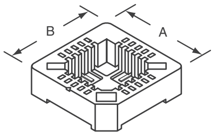

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	3M Part No.
Fig. 1 — Low Profile, 4 Row, PLCC Thru-Hole Mount							
20	0.611 (15.50)	0.611 (15.50)	3M2011B1-ND	.90	.78	.63	8420-11B1-RK-TP
28	0.711 (18.05)	0.711 (18.05)	3M2811B1-ND	1.02	.89	.72	8428-11B1-RK-TP
32	0.711 (18.05)	0.812 (20.60)	3M3211B1-ND	1.08	.94	.76	8432-11B1-RK-TP
44	0.926 (23.50)	0.926 (23.50)	3M4411B1-ND	1.29	1.12	.91	8444-11B1-RK-TP
52	1.020 (25.88)	1.020 (25.88)	3M5211B1-ND	1.41	1.23	.99	8452-11B1-RK-TP
68	1.223 (31.05)	1.223 (31.05)	3M6811B1-ND	1.74	1.51	1.22	8468-11B1-RK-TP
84	1.420 (36.05)	1.420 (36.05)	3M8411B1-ND	2.04	1.77	1.43	8484-11B1-RK-TP
Fig. 2 — 4 Row, PLCC Surface Mount							
20	0.617 (15.65)	0.617 (15.65)	3M2021B1-ND	.93	.81	.66	8420-21B1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821B1-ND	.96	.84	.68	8428-21B1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221B1-ND	1.05	.91	.74	8432-21B1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421B1-ND	1.26	1.10	.89	8444-21B1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221B1-ND	1.38	1.20	.97	8452-21B1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821B1-ND	1.68	1.46	1.18	8468-21B1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421B1-ND	1.83	1.59	1.29	8484-21B1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount with Location Post							
20	0.617 (15.65)	0.617 (15.65)	3M2021A1-ND	.93	.81	.66	8420-21A1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821A1-ND	.96	.84	.68	8428-21A1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221A1-ND	1.05	.91	.74	8432-21A1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421A1-ND	1.26	1.10	.89	8444-21A1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221A1-ND	1.38	1.20	.97	8452-21A1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821A1-ND	1.68	1.46	1.18	8468-21A1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421A1-ND	1.83	1.59	1.29	8484-21A1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape & Reel* Qty.	Tape & Reel* Pricing	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount									
20	0.617 (15.65)	0.617 (15.65)	3M2021B1CT-ND	1.20	1.04	.84	500	360.00	8420-21B1-RK-TR
28	0.716 (18.18)	0.716 (18.18)	3M2821B1CT-ND	1.20	1.04	.84	450	324.00	8428-21B1-RK-TR
32	0.716 (18.18)	0.818 (20.75)	3M3221B1CT-ND	1.26	1.10	.89	450	340.20	8432-21B1-RK-TR
44	0.917 (23.28)	0.917 (23.28)	3M4421B1CT-ND	1.53	1.33	1.08	360	330.48	8444-21B1-RK-TR
52	1.018 (25.84)	1.018 (25.84)	3M5221B1CT-ND	1.71	1.49	1.20	350	359.10	8452-21B1-RK-TR
68	1.219 (30.95)	1.219 (30.95)	3M6821B1CT-ND	2.04	1.77	1.43	280	342.72	8468-21B1-RK-TR

* For Tape and Reel part number, change CT-ND to TR-ND.

3M

NEW! Mini RFID Tracking Pad

Designed for compatibility, the mini tracking pad will work with systems that already have a 3M tracking pad. With enhanced aesthetics, the mini tracking pad looks great on a desk or counter top and includes several new features including user interface lights for a quick confirmation of a successful transaction or event. The mini tracking pad also helps address the need to find an outlet, as the pad is fully powered from the USB port on your PC or laptop. The compact size also makes this the ideal reader for mobile applications.

Features: • Low profile aesthetic form • Great for mobile applications • UL and FCC Certified • Integrated antenna • USB powered • User interface lights • Standard connector (Mini USB) **Components**: • 3M Mini RFID Tracking Pad • USB Cable **Specifications**: • USB Cable: 6.5 feet (2m) • Read Range: up to 6 inches (152.4mm) • Tag Protocols: ISO 15693, ISO 18000-3 Mode 1, TI Tag-It • Power Supply: 5V from USB • Antenna: Integrated • RF Frequency: 13.56MHz • Transmit Power: 200mW

Tracking Pad Dim. in Inch (mm)

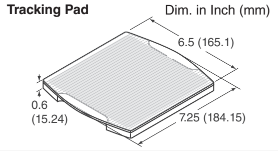

Description	Digi-Key Part No.	Price Each 1	25	100	3M Part No.
Tracking Pad	3M9583-ND	480.00	—	—	75-4700-2841-8
Tags					
Standard 58mm x 58mm Tag	3M9584-ND	1.64	1.37	1.15	75-4700-2660-2
Premium 57mm x 48mm Tag	3M9585-ND	2.08	1.74	1.46	75-0500-6593-9
CD/DVD 35mm Diameter Tag	3M9586-ND	3.29	2.74	2.31	75-0500-8304-9

Electromagnetic Compatible Products

3M EMC products can provide the following: • EMI/RFI shielding and absorbing • Static charge grounding • Anti-static masking • Cushioning • Mechanical protection • Conductive properties for a wide variety of applications

Size	Adhesive Type	Absorber Thickness mils/mm	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
Aluminum Foil Tape							
1” x 36yds.	Acrylic Conductive	4.0/0.102	3M1120C-ND	31.55	28.85	27.05	1120 X 1”
1” x 1yd.		4.0/0.102	3M1120C-1YD-ND	1.75	1.26	1.13	1120 X 1”
6” x 36yds.		4.0/0.102	3M1120D-ND	163.20	153.00	142.80	1120 X 6”
6” x 1’		4.0/0.102	3M1120D-1FT-ND	3.31	2.37	2.13	1120 X 6”
9” x 10”		4.0/0.100	3M1120E-ND ***NEW!***	1.78	1.60	1.32	1120 9”X10”
1” x 18yds.	Acrylic Conductive	3.2/0.081	3M1170C-ND	52.83	48.31	45.29	1170 X 1”
1” x 1yd.		3.2/0.081	3M1170C-1YD-ND	4.61	3.53	3.36	1170 X 1”
6” x 18yds.		3.2/0.081	3M1170D-ND	260.16	243.90	227.64	1170 X 6”
6” x 1’		3.2/0.081	3M1170D-1FT-ND	7.53	6.03	5.42	1170 X 6”
7.7” x 10”		3.2/0.081	3M1170E-ND ***NEW!***	4.90	4.41	3.63	1170 7.7”X10”
1” x 60yds.	Acrylic Conductive	7.0/0.177	3M1115C-ND	68.14	64.13	60.12	1115 X 1”
1” x 1yd.		7.0/0.177	3M1115C-1YD-ND	2.34	1.67	1.51	1115 X 1”
6” x 60yds.		7.0/0.177	3M1115D-ND	372.74	336.68	312.63	1115 X 6”
6” x 1’		7.0/0.177	3M1115D-1FT-ND	3.67	2.81	2.68	1115 X 6”
8” x 10”		7.0/0.177	3M1115E-ND ***NEW!***	2.33	2.10	1.73	1115B 8”X10”
6.56” x 10”	Acrylic Conductive	2.4/0.06	3M3602A-ND ***NEW!***	1.05	.95	.78	AL-25BT
6.56” x 10”		3.1/0.08	3M3602B-ND ***NEW!***	1.30	1.17	.97	AL-50BT
Polyester-laminated Aluminum Foil Tape							
1”x 54.5yds.	Acrylic Conductive	2.4/0.061	3M3600C-ND	21.84	19.97	18.72	AL-36FR X 1”
1”x 1yd.		2.4/0.061	3M3600C-1YD-ND	.80	.58	.52	AL-36FR X 1”
6”x 54.5yds.		2.4/0.061	3M3600D-ND	115.20	108.00	100.80	AL-36FR X 6”
6”x 1’		2.4/0.061	3M3600D-1FT-ND	1.54	1.10	1.00	AL-36FR X 6”
1”x 54.5yds.	Acrylic Non-conductive	2.2/0.055	3M3601C-ND	29.75	27.20	25.50	AL-36NC X 1”
1”x 1yd.		2.2/0.055	3M3601C-1YD-ND	1.09	.78	.71	AL-36NC X 1”
6”x 54.5yds.		2.2/0.055	3M3601D-ND	163.20	153.00	142.80	AL-36NC X 6”
6”x 1’		2.2/0.055	3M3601D-1FT-ND	2.18	1.56	1.41	AL-36NC X 6”
1”x 21.8yds.	Acrylic Conductive	2.8/0.071	3M3700C-ND	34.44	31.49	29.52	AL-37BLK X 1”
1”x 1yd.		2.8/0.071	3M3700C-1YD-ND	3.16	2.26	2.04	AL-37BLK X 1”
6”x 21.8yds.		2.8/0.071	3M3700D-ND	188.93	177.12	165.32	AL-37BLK X 6”
6”x 1’		2.8/0.071	3M3700D-1FT-ND	4.97	3.80	3.62	AL-37BLK X 6”
Copper Foil Tape							
1”x 36yds.	Acrylic Non-conductive	3.5/0.089	3M1125C-ND	30.22	27.64	25.91	1125 X 1”
1”x 1yd.		3.5/0.089	3M1125C-1YD-ND	1.68	1.20	1.08	1125 X 1”
6”x 36yds.		3.5/0.089	3M1125D-ND	151.20	141.75	132.30	1125 X 6”
6”x 1’		3.5/0.089	3M1125D-1FT-ND	3.06	2.19	1.97	1125 X 6”
1”x 36yds.	Acrylic Conductive	3.5/0.089	3M1126C-ND	56.60	51.75	48.51	1126 X 1”
1”x 1yd.		3.5/0.089	3M1126C-1YD-ND	3.08	2.21	1.99	1126 X 1”
6”x 36yds.		3.5/0.089	3M1126D-ND	283.20	265.50	247.80	1126 X 6”
6”x 1’		3.5/0.089	3M1126D-1FT-ND	4.51	3.45	3.28	1126 X 6”
8” x 10”		3.5/0.089	3M1126E-ND ***NEW!***	7.25	6.53	5.37	1126 8”X10”
1/4”x 18yds.	Acrylic Conductive	2.6/0.066	3M1181A-ND	12.09	10.37	8.99	1181 X 1/4”
1/2”x 18yds.		2.6/0.066	3M1181B-ND	24.15	20.70	17.94	1181 X 1/2”
1”x 18yds.		2.6/0.066	3M1181C-ND	48.32	44.18	41.42	1181 X 1”
1”x 1yd.		2.6/0.066	3M1181C-1YD-ND	4.22	3.23	3.07	1181 X 1”
6”x 18yds.		2.6/0.066	3M1181D-ND	230.21	215.82	201.44	1181 X 6”
6”x 1’		2.6/0.066	3M1181D-1FT-ND	6.66	5.33	4.80	1181 X 6”
1”x 18yds.	Acrylic Conductive, Double Sided	3.5/0.089	3M1182C-ND	57.96	53.00	49.68	1182 X 1”
1”x 1yd.		3.5/0.089	3M1182C-1YD-ND	5.06	3.87	3.68	1182 X 1”
6”x 18yds.		3.5/0.089	3M1182D-ND	276.10	258.84	241.59	1182 X 6”
6”x 1’		3.5/0.089	3M1182D-1FT-ND	7.99	6.40	5.76	1182 X 6”
1”x 36yds.	Acrylic Non-conductive	2.6/0.066	3M1194C-ND	46.46	42.48	39.83	1194 X 1”
1”x 1yd.		2.6/0.066	3M1194C-1YD-ND	2.58	1.85	1.66	1194 X 1”
6”x 36yds.		2.6/0.066	3M1194D-ND	176.54	165.51	154.48	1194 X 6”
6”x 1’		2.6/0.066	3M1194D-1FT-ND	3.07	2.30	2.05	1194 X 6”
7.7” x 10”		2.6/0.066	3M1194E-ND ***NEW!***	12.28	11.05	9.09	1194 7.7”X10”
Tin-plated Copper Foil Tape							
1”x 18yds.	Acrylic Conductive	2.6/0.066	3M1183C-ND	51.70	47.27	44.31	1183 X 1”
1”x 1yd.		2.6/0.066	3M1183C-1YD-ND	4.51	3.45	3.29	1183 X 1”
6”x 18yds.		2.6/0.066	3M1183D-ND	246.24	230.85	215.46	1183 X 6”
6”x 1’		2.6/0.066	3M1183D-1FT-ND	7.13	5.70	5.13	1183 X 6”
Embossed Copper Foil Tape							
1”x 18yds.	Acrylic Non-conductive	4.0/0.102	3M1245C-ND	41.86	38.28	35.88	1245 X 1”
1”x 1yd.		4.0/0.102	3M1245C-1YD-ND	3.99	2.99	2.66	1245 X 1”
6”x 18yds.		4.0/0.102	3M1245D-ND	199.39	186.93	174.47	1245 X 6”
6”x 1’		4.0/0.102	3M1245D-1FT-ND	5.77	4.62	4.16	1245 X 6”
Embossed Aluminum Foil Tape							
1”x 18yds.	Acrylic Non-conductive	5.0/0.127	3M1267C-ND	45.94	42.00	39.38	1267 X 1”
1”x 1yd.		5.0/0.127	3M1267C-1YD-ND	4.01	3.07	2.92	1267 X 1”
6”x 18yds.		5.0/0.127	3M1267D-ND	218.88	205.20	191.52	1267 X 6”
6 x1’		5.0/0.127	3M1267D-1FT-ND	6.33	5.07	4.56	1267 X 6”
Embossed Tin-plated Copper Foil Tape							
1”x 18yds.	Acrylic Non-conductive	4.0/0.102	3M1345C-ND	46.97	42.95	40.26	1345 X 1”
1”x 1yd.		4.0/0.102	3M1345C-1YD-ND	4.10	3.14	2.99	1345 X 1”
6”x 18yds.		4.0/0.102	3M1345D-ND	223.78	209.79	195.81	1345 X 6”
6”x 1’		4.0/0.102	3M1345D-1FT-ND	6.48	5.18	4.67	1345 X 6”

Size	Adhesive Type	Absorber Thickness mils/mm	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
Gold-coated Polyester Fabric Tape							
6”x 54.5yds.	Acrylic Conductive	4.3/0.110	3M2190D-ND	753.59	701.63	675.64	AU-2190 X 6”
6”x 1’		4.3/0.110	3M2190D-1FT-ND	7.95	6.36	5.73	AU-2190 X 6”
Copper-plated Polyester Ripstop Fabric Tape							
1”x 10.9yds.	Acrylic Conductive Double Sided	4.3/0.110	3M7001C-ND	83.73	78.80	73.88	X-7001 X 1”
1” x 1’		4.3/0.110	3M7001C-1FT-ND	4.14	3.17	3.02	X-7001 X 1”
6”x 10.9yds.		4.3/0.110	3M7001D-ND	443.25	413.70	384.15	X-7001 X 6”
6”x 1’		4.3/0.110	3M7001D-1FT-ND	18.98	15.82	14.92	X-7001 X 6”
Nickel on Copper-plated Polyester Ripstop Fabric Tape							
1”x 54.5yds.	Acrylic Conductive	4.3/0.110	3M3190C-ND	130.59	122.43	114.27	CN 3190 X 1”
1”x 1’		4.3/0.110	3M3190C-1FT-ND	1.75	1.25	1.13	CN 3190 X 1”
6”x 54.5yds.		4.3/0.110	3M3190D-ND	682.78	635.69	612.15	CN 3190 X 6”
6”x 1’		4.3/0.110	3M3190D-1FT-ND	7.20	5.76	5.19	CN 3190 X 6”
10.3” x 10”		4.3/0.110	3M3190E-ND ***NEW!***	5.03	4.53	3.72	CN-3190
NEW! Copper/Nickel Coated Fabric Tape NEW!							
9.8” x 10”	Acrylic Conductive	2.4/0.06	3M3490E-ND	4.30	3.87	3.19	CN-3490
9.8” x 10”		4.3/0.110	3M4190E-ND	4.15	3.74	3.08	CN-4190
9.8” x 10”		2.0/0.05	3M4490E-ND	3.80	3.42	2.82	CN-4490
NEW! XYZ Axis Acrylic Pad eCap NEW!							
7.7” x 10”	Acrylic Nickel-coated Graphite	0.20mm	3M7810A-ND	8.13	7.32	6.02	7810 0.20MM
7.7” x 10”		0.25mm	3M7810B-ND	10.70	9.63	7.92	7810 0.25MM
7.7” x 10”		0.30mm	3M7810C-ND	11.50	10.35	8.51	7810 0.30MM
eCAP 7830N — PET Fabric Pads, XYZ-AXIS (Conductive Gaskets)							
9.45”x 54.5yds.	Acrylic Nickel-coated Graphite	0.2mm	3M7830A-ND	891.03	827.39	811.48	ECAP 7830N .2
9.45”x 1’		0.2mm	3M7830A-1FT-ND	9.73	7.79	7.01	ECAP 7830N .2
9.45”x 54.5yds.		0.3mm	3M7830B-ND	1032.58	958.83	940.39	ECAP 7830N .3
9.45”x 1’		0.3mm	3M7830B-1FT-ND	11.28	9.03	8.12	ECAP 7830N .3
EMI Absorber Pads							
8.26”x 16.35yds.	Acrylic Non-conductive	0.10mm	3M5010D-ND†	845.35	784.97	769.88	AB-5010 X 8.26”
8.26” x 1’		0.10mm	3M5010D-1FT-ND†	24.62	20.93	19.70	AB-5010 X8.26”
8.26” x 11.7”		0.10mm	3M5010E-ND† ***NEW!***	8.73	7.86	6.46	AB5010S
8.26”x 16.35yds.		0.20mm	3M5020D-ND†	886.09	822.80	806.98	AB-5020 X 8.26”
8.26”x 1’	Acrylic Non-conductive	0.20mm	3M5020D-1FT-ND†	25.81	21.94	20.65	AB-5020 X 8.26”
8.26” x 11.7”		0.20mm	3M5020E-ND† ***NEW!***	10.83	9.75	8.02	AB5020
8.26”x 1’		0.30mm	3M5030D-1FT-ND†	29.66	25.22	23.74	AB-5030 X 8.26”
8.26” x 11.7”		0.30mm	3M5030E-ND† ***NEW!***	12.70	11.43	9.40	AB5030
8.26”x 16.35yds.	Acrylic Non-conductive	0.50mm	3M5050D-ND†	1171.27	1087.61	1066.70	AB-5050 X 8.26”
8.26” x 1’		0.50mm	3M5050D-1FT-ND†	34.11	29.00	27.29	AB-5050 X 8.26”
8.6” x 11.7”		0.50mm	3M5050E-ND† ***NEW!***	15.05	13.55	11.14	AB5050
8.6” x 11.7”		0.50mm	3M5051E-ND† ***NEW!***	17.60	15.84	13.03	AB5050S
8.26”x 10.9yds.	Acrylic Non-conductive	1.00mm	3M5100D-ND†	998.13	926.84	909.02	AB-5100 X 8.26”
8.26” x 1’		1.00mm	3M5100D-1FT-ND†	43.61	37.07	34.89	AB-5100 X 8.26”
10” x 11.7”		0.105mm	3M6005D-ND ***NEW!***	17.70	15.93	13.10	AB6005
10” x 11.7”		0.105mm	3M6005E-ND ***NEW!***	19.50	17.55	14.43	AB6005G
10” x 11.7”	Acrylic Non-conductive	0.105mm	3M6005F-ND ***NEW!***	17.70	15.93	13.10	AB6005S
8.26” x 11.7”		0.10mm	3M7010E-ND ***NEW!***	33.04	30.21	28.32	AB7010
8.26” x 11.7”		0.10mm	3M7010F-ND ***NEW!***	33.04	30.21	28.32	AB7010HF
8.26” x 11.7”		0.20mm	3M7020E-ND ***NEW!***	46.27	42.31	39.66	AB7020
8.26” x 11.7”	Acrylic Non-conductive	0.20mm	3M7020F-ND ***NEW!***	46.27	42.31	39.66	AB7020HF
8.26” x 11.7”		0.30mm	3M7030E-ND ***NEW!***	57.28	52.37	49.10	AB7030
8.26” x 11.7”		0.30mm	3M7030F-ND ***NEW!***	57.28	52.37	49.10	AB7030HF
8.26” x 11.7”		0.50mm	3M7050E-ND ***NEW!***	70.04	64.04	60.03	AB7050
8.26” x 11.7”		0.50mm	3M7050F-ND ***NEW!***	70.04	64.04	60.03	AB7050HF

† This value does not contain a double side adhesive tape thickeness

Size	Adhesive Type	Temperature Rating	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
High Temperature Polyimide Electrical Tape							
1/2”x 36yds.	Silicone	180°C	3M92A-ND	24.78	22.66	21.24	92 X 1/2”
1”x 36yds.	Silicone	180°C	3M92B-ND	49.54	45.30	42.47	92 X 1”
1/2”x 36yds.	Silicone	180°C	3M1093A-ND	23.47	21.46	20.12	1093 X 1/2”
1”x 36yds.	Silicone	180°C	3M1093B-ND	46.92	42.90	40.22	1093 X 1”
1/2”x 36yds.	Acrylic	155°C	3M1205A-ND	21.68	19.83	18.59	1205 X 1/2”
1”x 36yds.	Acrylic	155°C	3M1205B-ND	43.38	39.67	37.19	1205 X 1”
1/2”x 36yds.	Acrylic	155°C	3M1206A-ND	20.42	18.68	17.51	1206 X 1/2”
1”x 36yds.	Acrylic	155°C	3M1206B-ND	42.49	38.85	36.42	1206 X 1”
1/2” x 36yds.	Acrylic	180°C	3M1218A-ND	23.22	21.24	19.91	1218 X 1/2”
1” x 36yds.	Acrylic	180°C	3M1218B-ND	43.75	40.00	37.50	1218 X 1”
Tape Dispensers							
Tape Dispenser with weighted base holds tape 6” wide x 6 7/8” maximum diameter			3M56W-ND	82.46	75.40	70.68	P56W
Tape Dispenser without weighted base holds tape 8” wide x 7 1/2” maximum diameter			3M448-ND	127.07	115.52	111.67	P448
Tape Dispenser holds tape 2” wide x 6” maximum diameter (use for transfer tape)			3M712-ND	254.51	238.09	229.88	M712

ANALOG DEVICES

RF Transceivers

ADF70XX development platform for the ADF702X family of ISM band transceivers. The kit allows you to both evaluate and develop a low power, low data rate, wireless network using any of the ADF702X ISM band transceivers with the ADLISMLINK proprietary protocol. **Development Kit Contents for EVAL-ADF70XXMB2:** • 31 x Controller board • 3.6V Lithium battery • USB Cable • Serial Port Cable • Demo/Evaluation Software (ADF7020Demo.exe and ADF7020Registers.exe) • Application Development Code (restricted source code) • Comprehensive Documentation **Development Kit Contents for EVAL-ADF70XXMB:** Same as **EVAL-ADF70XXMB2** except it does not come with ADLISMLINK and source code.

Description	Package	Digi-Key Part No.	Price Each 1	25	100
RoHS Compliant					
IC Transmitter ASK/FSK/GFSK	24-TSSOP	ADF7012BRUZ-ND	3.96	3.17	2.47
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020BCPZ-ND	5.02	4.02	3.13
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020-1BCPZ-ND	5.02	4.02	3.13
IC Transceiver ISM High Performance	48-LFCSP	ADF7021BCPZ-ND	5.76	4.61	3.89
IC Transceiver ISM High Performance	48-LFCSP	ADF7021-NBCPZ-ND	5.76	4.61	3.89
ISM Band Low Power, Zero-IF RF Transceiver IC	48-LFCSP	ADF7025BCPZ-ND	5.76	4.61	3.89

Description	Digi-Key Part No.	Price Each
Mother Board for ADLISMLINK Development	EVAL-ADF70XXMBZ2-ND◆	163.19
Evaluation Board DB2 for ADF7012	EVAL-ADF7012DBZ2-ND◆	54.40
Evaluation Board for ADF7020-1, 470 ~ 510MHz	EVAL-ADF7020-1DB6-ND	53.75
Evaluation Board for ADF7020-1, 310 ~ 340MHz	EVAL-ADF7020-1DB7-ND	53.75
Evaluation Board for ADF7901	EVAL-ADF7901EB-ND	90.30

◆ *RoHS Compliant*

RMS Detectors

Voltage Supply (V)	Supply Current (mA)	RF Freq. (MHz)	Dynamic Range	Temp. Stab. (dB)	Resp. Time (ns)	Package	Digi-Key Part No.	Price Each 1	25	100
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	8-MSOP	AD8361ARMZ-ND	7.60	6.08	5.13
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	SOT-23-6	AD8361ARTZ-RL7CT-ND‡	7.60	6.08	5.13
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	SOT-23-6	AD8361ARTZ-RL7TR-ND†	14136.00/3,000		
4.5 ~ 5.5	20	3,800	60dB	1.0	45	16-TSSOP	AD8362ARUZ-ND	11.00	9.90	8.78
4.5 ~ 5.5	60	6,000	50dB	0.50	8,000	16-LFCSP	AD8363ACPZ-R7CT-ND‡	8.85	7.97	7.07
4.5 ~ 5.5	60	6,000	50dB	0.50	8,000	16-LFCSP	AD8363ACPZ-R7TR-ND†	9836.78/1,500		
4.5 ~ 5.5	70	2,700	60dB	0.50	45	32-LFCSP	AD8364ACPZ-REEL7CT-ND‡	13.91	12.53	11.11
4.5 ~ 5.5	70	2,700	60dB	0.50	45	32-LFCSP	AD8364ACPZ-REEL7TR-ND†	15468.38/1,500		
2.7 ~ 5.5	1.1	6,000	30dB	0.25	10,000	4-WLCSP	ADL5500ACBZ-P7CT-ND‡	6.26	5.01	3.90
2.7 ~ 5.5	1.1	6,000	30dB	0.25	10,000	4-WLCSP	ADL5500ACBZ-P7TR-ND†	10341.60/3,000		
2.7 ~ 5.5	1.1	6,000	30dB	0.25	6,000	SC70-6	ADL5501AKSZ-R7CT-ND‡	5.45	4.36	3.39
2.7 ~ 5.5	1.1	6,000	30dB	0.25	6,000	SC70-6	ADL5501AKSZ-R7TR-ND†	9147.60/3,000		
2.7 ~ 5.5	—	3,800	30dB	0.25	15,000	8-WLCSP	ADL5502ACBZ-P7CT-ND‡	9.95	8.96	7.95
2.7 ~ 5.5	—	3,800	30dB	0.25	15,000	8-WLCSP	ADL5502ACBZ-P7TR-ND†	21760.65/3,000		

‡ Cut Tape † Tape and Reel

Active RF Splitter

Primary Function	-3dB Bandwidth (GHz)	Voltage Supply (V)	No. of Outputs	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100
Active RF Splitter	1.3	5.0	4	20-LFCSP	ADA4302-4ACPZ-RL7CT-ND	5.26	4.21	3.56
Two-output Active Splitter	1.7	5.0	2	12-LFCSP	ADA4303-2ACPZ-R7CT-ND	2.00	1.60	1.20
Active RF Splitter	1.6	5.0	2	16-LFCSP	ADA4304-2ACPZ-R7CT-ND	1.75	1.40	1.05
Active RF Splitter	2.4	5.0	3	16-LFCSP	ADA4304-3ACPZ-R7CT-ND	2.50	2.00	1.50
	2.4	5.0	3	16-LFCSP	ADA4304-3ACPZ-R7TR-ND†	1950.00/1,500		
Active RF Splitter	2.4	5.0	4	16-LFCSP	ADA4304-4ACPZ-R7CT-ND	3.62	2.90	2.26

† Tape and Reel

Log Amp and Detector

RF Freq. (MHz)	Dyn. Range (dB)	Accuracy (dB)	Resp. Time (ns Typ.)	Supp. Volt. (V)	Supp. Curr. (mA)	Package	Digi-Key Part No.	Price Each 1	25	100
—	80	±0.4	400	—	—	16-DIP	AD606JNZ-ND	43.88	40.95	38.03
2,700	60	±0.2	60	2.7 ~ 5.5	19	14-TSSOP	AD8302ARUZ-ND	19.82	18.50	17.18
—	160	±0.1	100	3 ~ 5.5	4.5	14-TSSOP	AD8304ARUZ-ND	18.98	17.71	16.45
—	100	±0.3	1,000	3 ~ 12	5.0	16-LFCSP	AD8305ACPZ-RL7CT-ND‡	13.16	11.85	10.51
	100	±0.3	1,000	3 ~ 12	5.0	16-LFCSP	AD8305ACPZ-RL7TR-ND†	14634.75/1,500		
5 ~ 400	100	±0.4	73	2.7 ~ 5.5	16	16-SOIC	AD8306ARZ-ND	24.44	22.81	21.18
dc ~ 500	92	±1	400	2.7 ~ 5.5	8.0	8-Dip	AD8307ANZ-ND	10.43	9.39	8.33
	92	±1	400	2.7 ~ 5.5	8.0	8-SOIC	AD8307ARZ-ND	10.43	9.39	8.33
5 ~ 500	100	±0.4	67	2.7 ~ 5.5	16	16-TSSOP	AD8309ARUZ-ND	14.31	12.89	11.43
dc ~ 440	100	±0.4	15	2.7 ~ 5.5	8.0	8-MSOP	AD8310ARMZ-ND	8.72	6.98	5.89
100 ~ 2,500	50	±0.5	150	2.7 ~ 5.5	8.5	6-WLCSP	AD8311ACBZ-P7CT-ND‡✔	2.86	2.29	1.78
	50	±0.5	150	2.7 ~ 5.5	8.5	6-WLCSP	AD8311ACBZ-P7TR-ND†✔	4800.60/3,000		
50 ~ 3,500	48	±0.5	70	2.7 ~ 5.5	4.2	6-WLCSP	AD8312ACBZ-P7CT-ND‡	2.86	2.29	1.78
	48	±0.5	70	2.7 ~ 5.5	4.2	6-WLCSP	AD8312ACBZ-P7TR-ND†	4800.60/3,000		
100 ~ 2,500	70	±1	40	2.7 ~ 5.5	14	8-MSOP	AD8313ARMZ-ND	16.19	15.11	14.03
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-LFCSP	AD8314ACPZ-RL7CT-ND‡	2.48	1.98	1.54
	45	±0.5	70	2.7 ~ 5.5	4.5	8-LFCSP	AD8314ACPZ-RL7TR-ND†	4158.00/3,000		
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-REEL7CT-ND‡	8.36	6.69	5.65
	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-REEL7TR-ND†	5225.00/1,000		
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-ND	8.36	6.69	5.65
1 ~ 4,000	80	±0.5	21	2.7 ~ 5.5	31	16-LFCSP	ADL5513ACPZ-R7CT-ND‡✔	9.26	8.34	7.40
	80	±0.5	21	2.7 ~ 5.5	31	16-LFCSP	ADL5513ACPZ-R7TR-ND†✔	10299.90/1,500		
1 ~ 10,000	50	±1	8	3 ~ 5.5	20	8-LFCSP	AD8317ACPZ-R7CT-ND‡	7.96	6.37	5.38
	50	±1	8	3 ~ 5.5	20	8-LFCSP	AD8317ACPZ-R7TR-ND†	14805.60/3,000		
1 ~ 8,000	60	±1	10	4.5 ~ 5.5	68	16-LFCSP	AD8318ACPZ-REEL7CT-ND‡	8.78	7.91	7.01
	60	±1	10	4.5 ~ 5.5	68	16-LFCSP	AD8318ACPZ-REEL7TR-ND†	9762.68/1,500		
1kHz ~ 10,000	64	±0.5	8/10	3 ~ 5.5	56	32-LFCSP	ADL5519ACPZ-R7CT-ND‡	10.08	8.07	6.81
	64	±0.5	8/10	3 ~ 5.5	56	32-LFCSP	ADL5519ACPZ-R7TR-ND†	9450.00/1,500		

✔ ***NEW!*** ‡ Cut Tape † Tape and Reel

Mod/Demod

Mod/Demod	RF Freq. (MHz)	IQ Freq. (MHz)	Amplitude Error	Noise Floor (dBm/Hz)	Volt. Supp. (V)	Package	Digi-Key Part No.	Price Each 1	25	100
Demod	dc ~ 50	—	0.05dB	-166	—	32-LFCSP	AD8333ACPZ-WP-ND	15.09	13.59	12.05
Demod	dc ~ 50	50	0.25dB	—	±5.0	40-LFCSP	AD8339ACPZ-ND	18.14	16.93	15.72
Vector Mod	700 ~ 1,000	—	—	-149	5.0	24-LFCSP	AD8340ACPZ-REEL7CT-ND‡	14.66	13.20	11.71
Mod	140 ~ 1,000	80	0.2dB	-155	2.7 ~ 5.5	16-TSSOP	AD8345AREZ-ND	8.36	7.53	6.68
Mod	800 ~ 2,500	70	0.2dB	-147	2.7 ~ 5.5	16-TSSOP	AD8346ARUZ-ND	8.90	7.12	6.01
Demod	800 ~ 2,700	65	0.3dB	—	2.7 ~ 5.5	28-TSSOP	AD8347ARUZ-ND	9.75	8.78	7.79
Demod	50 ~ 1,000	75	0.25dB	—	2.7 ~ 5.5	28-TSSOP	AD8348ARUZ-ND	8.35	7.52	6.67
Mod	2,700	160	0.1dB	-156	5.0	16-TSSOP	AD8349AREZ-ND	8.36	7.53	6.68
Mod	300 ~ 1,300	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5370ACPZ-R7CT-ND‡ ADL5370ACPZ-R7TR-ND†	10.08 9450.00/1,500	8.07	6.81
Mod	500 ~ 1,500	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5371ACPZ-R7CT-ND‡ ADL5371ACPZ-R7TR-ND†	10.08 9450.00/1,500	8.07	6.81
Mod	1,500 ~ 2,500	700	—	-158	4.75 ~ 5.5	24-LFCSP	ADL5372ACPZ-R7CT-ND‡	8.40	7.56	6.71
Mod	2,300 ~ 3,000	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5373ACPZ-R7CT-ND‡	10.08	8.07	6.81
Mod	3,000 ~ 4,000	700	—	-155	4.75 ~ 5.5	24-LFCSP	ADL5374ACPZ-R7CT-ND‡	10.08	8.07	6.81
Mod	400 ~ 6,000	500	—	-161	4.75 ~ 5.25	24-LFCSP	ADL5375-05ACPZ-R7CT-ND‡ ADL5375-05ACPZ-R7TR-ND†	10.08 9374.40/1,500	8.07	6.81
Demod	400 ~ 6,000	—	—	—	4.75 ~ 5.25	24-LFCSP	ADL5380ACPZ-R7CT-ND‡✔ ADL5380ACPZ-R7TR-ND†✔	8.80 9781.20/1,500	7.92	7.03
Demod	700 ~ 2,700	370	0.05	—	4.75 ~ 5.25	24-LFCSP	ADL5382ACPZ-R7CT-ND‡ ADL5382ACPZ-R7TR-ND†	8.80 9781.20/1,500	7.92	7.03
Mod	50 ~ 2,200	500	0.03	-160	4.75 ~ 5.5	24-LFCSP	ADL5385ACPZ-R7CT-ND‡ ADL5385ACPZ-R7TR-ND†	10.08 9450.00/1,500	8.07	6.81
Demod	50 ~ 2,000	240	0.05	—	5.0	24-LFCSP	ADL5387ACPZ-R7CT-ND‡ ADL5387ACPZ-R7TR-ND†	10.56 9781.20/1,500	8.45	7.13
Evaluation Board for AD8333							AD8333-EVALZ-ND	362.44	—	—

✔ ***NEW!*** ‡ Cut Tape † Tape and Reel

RF/IF Amplifiers

Frequency Range (MHz)	Gain (dB)	Output IP3 (dBm)	Noise Fig. (dB)	Supply Voltage (V)	Supply Current (mA)	Package	Function	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Analog Devices Part No.
3,000	26	27	—	5.0	32	10-MSOP	IFA / DIF	AD8351ARMZ-ND‡	5.82	4.66	3.93	—	—	—	AD8351ARMZ
10 ~ 2,500	18	41	—	5.5	37	16-LFCSP	IFA / DIF	AD8352ACPZ-R7CT-ND	7.06	5.65	4.77	AD8352ACPZ-R7TR-ND	1,500	4412.50/M	AD8352ACPZ-R7
1 ~ 2,700	20	23.6	5.3	5.0	42	8-LFCSP	Gain Block	AD8353ACPZ-REEL7CT-ND	1.47	1.23	.98	AD8353ACPZ-REEL7TR-ND	3,000	637.00/M	AD8353ACPZ-REEL7
1 ~ 2,700	20	19	4.2	5.0	31	8-LFCSP	Gain Block	AD8354ACPZ-REEL7CT-ND	1.47	1.23	.98	AD8354ACPZ-REEL7TR-ND	3,000	637.00/M	AD8354ACPZ-REEL7
700 ~ 1,000	20	43	5.0	5.0	320	8-LFCSP	Driver	ADL5322ACPZ-R7CT-ND	7.04	5.64	4.76	ADL5322ACPZ-R7TR-ND	1,500	4400.00/M	ADL5322ACPZ-R7
1,700 ~ 2,400	20	43	4.6	5.0	320	8-LFCSP	Driver	ADL5323ACPZ-R7CT-ND	7.04	5.64	4.76	ADL5323ACPZ-R7TR-ND	1,500	4400.00/M	ADL5323ACPZ-R7
dc ~ 1,000	16.5	37	3.0	3.0 ~ 5.0	110	8-LFCSP	IFA	ADL5530ACPZ-R7CT-ND	3.56	2.85	2.22	ADL5530ACPZ-R7TR-ND	3,000	1990.80/M	ADL5530ACPZ-R7
50 ~ 4000	15	43.0	3.7	5.0	83	89-SOT	Gain Block	ADL5601ARKZ-R7CT-ND ***NEW!***	3.94	3.15	2.45	ADL5601ARKZ-R7TR-ND ***NEW!***	1,000	2231.25	ADL5601ARKZ-R7
50 ~ 4000	20	42	3.3	5.0	89	89-SOT	Gain Block	ADL5602ARKZ-R7CT-ND ***NEW!***	3.94	3.15	2.45	ADL5602ARKZ-R7TR-ND ***NEW!***	1,000	2231.25	ADL5602ARKZ-R7

‡ Tube

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF/IF Amplifiers *(Cont.)*

Frequency Range (MHz)	Gain (dB)	Output IP3 (dBm)	Noise Fig. (dB)	Supply Voltage (V)	Supply Current (mA)	Package	Function	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Analog Devices Part No.
50 ~ 6,000	15	39.2	3.8	5.0	92	8-LFCSP	Gain Block	ADL5541ACPZ-R7CT-ND	3.76	3.01	2.34	ADL5541ACPZ-R7TR-ND	1,500	2129.26/M	ADL5541ACPZ-R7
50 ~ 6,000	20	39	3.2	5.0	92	8-LFCSP	Gain Block	ADL5542ACPZ-R7CT-ND	3.76	3.01	2.34	ADL5542ACPZ-R7TR-ND	1,500	2129.26/M	ADL5542ACPZ-R7
20 ~ 500	20	39	2.5	5.0	100	8-LFCSP	IFA	ADL5531ACPZ-R7CT-ND	4.21	3.37	2.62	ADL5531ACPZ-R7TR-ND	1,500	2384.26/M	ADL5531ACPZ-R7
20 ~ 500	20	40	2.5	5.0	98	16-LFCSP	IFA	ADL5534ACPZ-R7CT-ND	6.00	4.80	4.05	ADL5534ACPZ-R7TR-ND	1,500	3750.00/M	ADL5534ACPZ-R7
400 ~ 2,700	17	45	4.0	5.0	104	SOT-89	Driver	ADL5320ARKZ-R7CT-ND	5.16	4.13	3.49	ADL5320ARKZ-R7TR-ND	1,000	3225.00	ADL5320ARKZ-R7
2,300 ~ 2,400	29	—	—	3.2 ~ 4.2	100	16-LFCSP	Pwr Amp with Power Control	ADL5570ACPZ-R7CT-ND	8.43	7.59	6.73	—	—	—	ADL5570ACPZ-R7
2,300 ~ 4,000	14	41	4.0	5.0	90	SOT-89	Driver	ADL5321ARKZ-R7CT-ND	5.16	4.13	3.49	ADL5321ARKZ-R7TR-ND	1,000	3225.00	ADL5321ARKZ-R7
1,800 ~ 2,900	15.5	—	12	3.0 ~ 3.6	40	16-LFCSP	Differential	ADL5561ACPZ-R7CT-ND ***NEW!***	7.36	5.89	4.97	ADL5561ACPZ-R7TR-ND ***NEW!***	1,500	4600.00/M	ADL5561ACPZ-R7
1,900 ~ 3,300	15.5	—	12	3.0 ~ 3.6	80	16-LFCSP	Differential	ADL5562ACPZ-R7CT-ND ***NEW!***	7.36	5.89	4.97	ADL5562ACPZ-R7TR-ND ***NEW!***	1,500	4600.00/M	ADL5562ACPZ-R7

‡ Tube

PLL Synthesizers and VCOs

RF Input Max. (GHz)	Normal Phase Noise (dBc/Hz)	Max. RFin (MHz)	RF Pre-scalers	Supply Current (mA)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
				Single Integer-N					
200 MHz	-214	104	N/A	4.5	20-LFCSP	ADF4001BCPZ-ND◆	3.96	3.17	2.47
	-214	104	N/A	4.5	16-TSSOP	ADF4001BRUZ-ND◆	3.96	3.17	2.47
400 MHz	-222	300	N/A	5nA	20-LFCSP	ADF4002BCPZ-ND◆	5.15	4.13	3.21
	-222	300	N/A	5nA	16-TSSOP	ADF4002BRUZ-ND◆	5.15	4.13	3.21
7.5	-219	240	8/16/32/64	13	20-LFCSP	ADF4007BCPZ-ND◆	4.95	3.96	3.08
6.0	-219	300	16/17, 32/33, 64/65, 8/9	13	20-LFCSP	ADF4106BCPZ-ND◆	4.95	3.96	3.08
6.0	-219	300	16/17, 32/33, 64/65, 8/9	13	16-TSSOP	ADF4106BRUZ-ND◆	4.95	3.96	3.08
7.0	-219	250	16/17, 32/33, 64/65, 8/9	13	16-TSSOP	ADF4107BRUZ-ND◆	5.46	4.37	3.69
8.0	-219	250	16/17, 32/33, 4/5, 64/65, 8/9	17	20-LFCSP	ADF4108BCPZ-ND◆	6.84	5.48	4.62
550 MHz	-215	104	16/17, 32/33, 64/65, 8/9	4.5	16-TSSOP	ADF4110BRUZ-ND◆	5.24	4.20	3.27
1.2	-215	104	16/17, 32/33, 64/65, 8/9	4.5	20-LFCSP	ADF4111BCPZ-ND◆	5.24	4.20	3.27
1.2	-215	104	16/17, 32/33, 64/65, 8/9	4.5	16-TSSOP	ADF4111BRUZ-ND◆	5.24	4.20	3.27
3.0	-215	104	16/17, 32/33, 64/65, 8/9	6.5	16-TSSOP	ADF4112BRUZ-ND◆	5.24	4.20	3.27
3.0	-215	104	16/17, 32/33, 64/65, 8/9	6.5	20-LFCSP	ADF4112BCPZ-ND◆	5.24	4.20	3.27
4.0	-215	104	16/17, 32/33, 64/65, 8/9	8.5	20-LFCSP	ADF4113BCPZ-ND◆	5.24	4.20	3.27
	-215	104		8.5	16-TSSOP	ADF4113BRUZ-ND◆	5.24	4.20	3.27
	-215	104		8.5	16-TSSOP	ADF4113BRUREEL7CT-ND‡	5.42	4.34	3.66
4.0	-212	104	16/17, 32/33, 64/65, 8/9	11	16-TSSOP	ADF4113HVBRUZ-ND◆	5.28	4.23	3.57
	-212	104		11	20-LFCSP	ADF4113HVBCPZ-ND◆	5.28	4.23	3.57
550 MHz	-211	100	8/9	4.5	16-TSSOP	ADF4116BRUZ-ND◆	5.24	4.20	3.27
3.0	-216	100	32/33	6.5	16-TSSOP	ADF4118BRUZ-ND◆	5.24	4.20	3.27
				Fractional-N — RoHS Compliant					
4.0	-213	250	4/5, 8/9	12	20-LFCSP	ADF4153BCPZ-ND	5.24	4.20	3.27
	-213	250	4/5, 8/9	12	16-TSSOP	ADF4153BRUZ-ND	5.24	4.20	3.27
	-213	250	4/5, 8/9	12	16-TSSOP	ADF4153YRUZ-ND	7.24	5.80	4.89
4.0	-213	250	4/5, 8/9	12	16-TSSOP	ADF4154BRUZ-ND	5.24	4.20	3.27
6.0	-213	250	4/5, 8/9	12	20-LFCSP	ADF4156BCPZ-ND	6.22	4.98	4.20
	-213	250	4/5, 8/9	12	16-TSSOP	ADF4156BRUZ-ND	6.22	4.98	4.20
6.0	-207	300	—	29	16-TSSOP	ADF4157BRUZ-ND	6.66	5.33	4.50
3.5	-216	300	4/5, 8/9	—	32-LFCSP	ADF4193BCPZ-ND	14.66	13.20	11.71
3.0	-214	150	4/5, 8/9	12	24-LFCSP	ADF4252BCPZ-ND	5.46	4.37	3.69

◆ ***RoHS Compliant*** ‡ Cut Tape

Output Freq. Range (MHz)	Normal Phase Noise (dBc/Hz)	Max. RFin (MHz)	RF Pre-scalers	Supply Current (mA)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
				Synthesizer/VCO Integer-N — RoHS Compliant					
137.5 ~ 4,400	-213	105	4/5, 8/9	70 ~ 80	32-LFCSP	ADF4350BCPZ-RL7CT-ND‡	16.98	15.85	14.72
137.5 ~ 4,400	-213	105	4/5, 8/9	70 ~ 80	32-LFCSP	ADF4350BCPZ-RL7TR-ND†	20970.30/1,500		
2,400 ~ 2,725	-214	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-0BCPZ-ND	6.34	5.08	4.28
2,050 ~ 2,450	-172	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-1BCPZ-ND	6.34	5.08	4.28
1,850 ~ 2,150	-217	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-2BCPZ-ND	6.34	5.08	4.28
1,600 ~ 1,950	-217	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-3BCPZ-ND	6.34	5.08	4.28
1,450 ~ 1,750	-217	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-4BCPZ-ND	6.34	5.08	4.28
1,200 ~ 1,400	-172	250	16/17, 32/33, 8/9	25 ~ 50	24-LFCSP	ADF4360-5BCPZ-ND	6.34	5.08	4.28
350 ~ 1,800	-217	250	16/17, 8/9	25 ~ 45	24-LFCSP	ADF4360-7BCPZ-ND	6.34	5.08	4.28
65 ~ 400	-215	250	—	25 ~ 45	24-LFCSP	ADF4360-8BCPZRL7CT-ND‡	6.34	5.08	4.28
65 ~ 400	-215	250	—	25 ~ 45	24-LFCSP	ADF4360-8BCPZRL7TR-ND†	5943.75/1,500		
65 ~ 400	-218	250	2 ~ 31	—	24-LFCSP	ADF4360-9BCPZRL7CT-ND‡✔	6.26	5.01	4.23
65 ~ 400	-218	250	2 ~ 31	—	24-LFCSP	ADF4360-9BCPZRL7TR-ND†✔	5868.75/1.500		

✔ ***NEW!*** ‡ Cut Tape † Tape and Reel

Description	Digi-Key Part No.	Price Each
	Evaluation Boards	
Evaluation Board for ADF4118	EVAL-ADF4118EB1-ND	161.25
Evaluation Board for ADF4118	EVAL-ADF4118EBZ1-ND◆	163.19
Evaluation Board for ADF4252, No VCO or Filters	EVAL-ADF4252EBZ2-ND◆	130.55

◆ ***RoHS Compliant***

Input Freq. Max. (MHz)	Supply Voltage	TTL Logic High (Min.)	ECL Logic High	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
			Phase/Frequency Discriminator — RoHS Compliant					
200	+5	2V	300mV	20-PLCC	AD9901KPZ-ND	6.78	5.43	4.58

RX TX Subsystems

Res. (Bits)	Thruput Rate	Number of ADC Inputs	Supply Voltage	Interface	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
24	375kSPS	1	2.7 ~ 3.6	Serial, SPI	48-LFCSP	AD9864BCPZ-ND	15.47	14.44	13.41

Mixers/Multipliers

RF Frequency (MHz)	IF Frequency (MHz)	LO Frequency (MHz)	Con-version Gain	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
400	200	400	—	20-PLCC	AD831APZ-ND	11.88	10.70	9.49
500	400kHz ~ 12	500	—	20-SSOP	AD607ARSZ-ND	7.46	5.97	5.04
500	240	500	24dB	16-SOIC	AD608ARZ-ND	5.45	4.36	3.39
dc ~ 2,500	dc ~ 2,500	dc ~ 2,500	7dB	14-TSSOP	AD8343ARUZ-ND	7.68	6.15	5.19
400 ~1,200	70 ~ 400	470 ~ 1,600	4.5dB	16-LFCSP	AD8344ACPZ-REEL7CT-ND‡	7.90	6.32	5.34
400 ~1,200	70 ~ 400	470 ~ 1,600	4.5dB	16-LFCSP	AD8344ACPZ-REEL7TR-ND†	7406.25/1,500		
4,000	4,000	4,000	6.8dB	8-LFCSP	ADL5350ACPZ-R7CT-ND‡	5.38	4.31	3.35
4,000	4,000	4,000	6.8dB	8-LFCSP	ADL5350ACPZ-R7TR-ND†	9034.20/3,000		
20 ~ 2,400	230	20 ~ 2,400	3.5dB	24-LFCSP	ADL5390ACPZ-REEL7CT-ND‡	14.66	13.20	11.71
1,200 ~2,500	30 ~ 450	1,230 ~ 2,470	8.4dB	20-LFCSP	ADL5355ACPZ-R7CT-ND‡✔	11.63	10.47	9.29
1,200 ~2,500	30 ~ 450	1,230 ~ 2,470	8.4dB	20-LFCSP	ADL5355ACPZ-R7TR-ND†✔	12930.45/1,500		
500 ~1,700	30 ~ 450	730 ~ 1,670	8.6dB	20-LFCSP	ADL5357ACPZ-R7CT-ND‡✔	11.63	10.47	9.29
500 ~1,700	30 ~ 450	730 ~ 1,670	8.6dB	20-LFCSP	ADL5357ACPZ-R7TR-ND†✔	12930.45/1,500		

✔ ***NEW!*** ‡ Cut Tape † Tape and Reel

DDCs

MSPS	GSM, EDGE/GPRS	CDMA2000 1x	CDMA2000 3x	UMTS	TDS-CDMA	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
65	1 Channel	1 Channel – 2 Samples per Chip	1 Channel with FPGA – 2 Samples per Chip	1 Channel with FPGA – 2 Samples per Chip	1 Channel	80-PQFP	AD6620ASZ-ND◆	29.06	27.12	25.19
80	8 Channel – 2 Samples per Symbol	4 Channel – 4 Samples per Chip	4 Channel – 4 Samples per Chip	4 Channel – 4 Samples per Chip	8 Channel – 1 Sample per Chip	324-PBGA	AD6635BB-ND	67.31	62.82	58.34

◆ ***RoHS Compliant***

ANALOG DEVICES DDSs

Master fclk	Resolution (Bits)	Tuning Word Width (Bits)	Nominal Supply (V)	I Supply Total (Max.)	FS Iout Nominal (mA)	Compliance Range (V)	REFCLK Multiplier	On-Board Comparator	I/O Interface	Package	Digi-Key Part No.	Price Each 1	25	100
25MHz	10	32	Single (+3.3), Single (+3.6), Single (+5.0)	15mA	4	1.5	No	No	Parallel	48-LQFP	AD9831ASTZ-ND	10.78	9.71	8.61
25MHz	10	32	Single (+3.6), Single (+5.0)	15mA	4	1.35	No	No	Serial	16-TSSOP	AD9832BRUZ-ND	8.63	7.77	6.89
50MHz	10	32	Single (+5.0)	60mA	20	1.0	No	No	Parallel	48-TQFP	AD9830ASTZ-ND	17.00	15.87	14.73
50MHz	10	28	Single (+2.3 to +5.5), Single (+2.5), Single (+2.7), Single (+3.0), Single (+3.3), Single (3.6), Single (+5.0)	8mA	3	0.8	No	Yes	Serial	20-TSSOP	AD9834BRUZ-ND	8.53	7.68	6.81
75MHz	10	28	Single (+2.3 to +5.5)	8.7mA	3	0.8	No	Yes	Serial	20-TSSOP	AD9834CRUZ-ND	9.93	8.94	7.93
50MHz	10	32	Single (+5.0)	40mA	4	1.35	No	No	Serial	16-TSSOP	AD9835BRUZ-ND	9.93	8.94	7.93
125MHz	10	32	Single (+3.3),Single (+5.0)	96mA	20	1.5	No	Yes	Parallel, Serial	28-SSOP	AD9850BRSZ-ND	19.22	17.94	16.66
180MHz	10	32	Single (+3.0), Single (+3.3), Single (+3.6), Single (+5.0)	130mA	20	1.5	Yes	Yes	Parallel	28-SSOP	AD9851BRSZ-ND	21.06	19.66	18.26
250MHz	10	32	Single (+1.8)	63.5mA	4.6	0.8	Yes	No	Parallel, Serial	32-LFCSP	AD9913BCPZ-ND	15.00	14.00	13.00
300MHz	12	48	Single (+3.3)	922mA	20	1.0	Yes	Yes	Parallel, Serial	80-LQFP	AD9852ASTZ-ND	23.72	22.14	20.56
300MHz	12	48	Single (+3.3)	1210mA	10	1.0	Yes	Yes	Parallel, Serial	80-LQFP	AD9854ASTZ-ND	25.68	23.97	22.26
400MHz	10	32	Multi (+1.8, +3.3)	N/A	20	2.05	Yes	No	Serial	48-TQFP	AD9859YSVZ-ND	15.15	14.14	13.13
400MHz	14	32	1.8 and 3.3 or 1.8	N/A	10	2.05	Yes	No	Serial	48-TQFP	AD9951YSVZ-ND	21.35	19.93	18.50
400MHz	14	32	Multi (+1.8, +3.3), Single (+1.8)	N/A	10	2.05	Yes	Yes	Serial	48-TQFP	AD9952YSVZ-ND	24.08	22.47	20.87
400MHz	14	32	Multi (+1.8, +3.3), Single (+1.8)	N/A	10	2.05	Yes	No	Serial	48-TQFP	AD9953YSVZ-ND	22.92	21.40	19.87
400MHz	14	32	Multi (+1.8, +3.3), Single (+1.8)	N/A	10	2.05	Yes	Yes	Serial	48-TQFP	AD9954YSVZ-ND	26.79	25.01	23.22
500MHz	10	32	Multi (+1.85, +3.3)	105mA	10	2.3	Yes	—	Serial	56-LFCSP	AD9958BCPZ-ND	31.44	29.35	27.25
500MHz	10	32	Multi (+1.8, +3.3)	180mA	10	2.3	Yes	—	Serial	56-LFCSP	AD9959BCPZ-ND	57.68	53.83	49.99
1.0GHz	10	32	Multi (+3.3, +5.0)	N/A	40	3.8	No	No	Parallel, Serial	100-TQFP	AD9858BSVZ-ND	70.13	65.45	60.78
1.0GHz	14	32	Single (+1.8), Single (+3.3)	N/A	20	0.5	Yes	No	Parallel, Serial	100-TQFP	AD9910BSVZ-ND	54.24	50.63	47.01
1.0GHz	14	32	Multi (+1.8, +3.3)	759mA	20	0.5	Yes	—	Serial	100-TQFP	AD9957BSVZ-ND	32.63	30.45	28.28
2.7GHz	14	48	Multi (+1.8, +3.3)	N/A	10	2.3	No	No	Serial	48-LFCSP	AD9956YCPZ-ND	26.79	25.01	23.22
Evaluation Board for AD9833											EVAL-AD9833EBZ-ND	151.80	—	—
Evaluation Board for AD9834											EVAL-AD9834EBZ-ND	151.80	—	—
Evaluation Board for AD9910											AD9910/PCBZ-ND	543.75	—	—
Evaluation Board for AD9913											AD9913/PCBZ-ND	435.00	—	—
Evaluation Board for AD9954											AD9954/PCBZ-ND	435.00	—	—
Evaluation Board for AD9957											AD9957/PCBZ-ND	435.00	—	—
Evaluation Board for AD9958											AD9958/PCBZ-ND	435.00	—	—

antenova Antennas and GPS Module

Dimensions in mm

Fig. 1

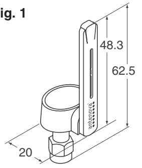

Fig. 2

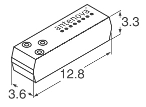

Fig. 3

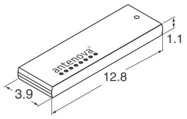

Fig. 4

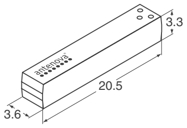

Fig. 5

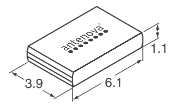

Fig. 6

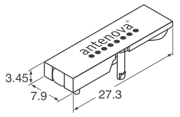

Fig. 7

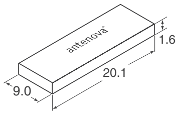

Fig.	Description	Frequency	Gain	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Tape and Reel◊ Qty.	Pricing	Antenova Part No.
				Antennas						
1	Titanis Swivel SMA	2.4GHz	4.1dBi	627-1000-ND†	37.50	31.50	24.90	—	—	B4844-01
	Titanis Swivel RPSMA	2.4GHz	4.1dBi	627-1001-ND†	37.50	31.50	24.90	—	—	B6090-01
2	Comata SMD	2.4GHz	-0.5dBi	627-1010-1-ND	9.80	8.75	7.70	2,000	3150.00/M	A6111
3	Rufa SMD	2.4GHz	4.1dBi	627-1011-1-ND	5.95	5.32	4.68	1,000	1913.00	A5839
	Rufa SMD	2.4GHz	4.1dBi	627-1012-1-ND	5.95	5.32	4.68	1,000	1913.00	A5887
4	Mica SMD	2.4GHz	1.2dBi	627-1009-1-ND	11.20	10.00	8.80	2,000	3600.00/M	A5645
5	Impexa SMD	2.4GHz	0.2dBi	627-1013-1-ND	2.94	2.63	2.31	1,000	945.00	A6150
	Impexa SMD	2.4GHz	0.2dBi	627-1014-1-ND	2.94	2.63	2.31	1,000	945.00	A6250
6	Flavus Snap-In	2.4GHz	4.0dBi	627-1003-ND†	8.89	7.94	6.99	—	—	1020B5743-01
7	GPS SMD	1,575 ±5MHz	-0.5dBiΔ	627-1015-1-ND	13.86	12.38	10.89	1,000	4455.00	A10137
8	Fusca SMD	2.4 ~ 2.5GHz	0.4dBi	627-1016-1-ND	2.80	2.50	2.20	1,000	900.00	A10192
9	Reflexus Penta-band SMD	824 ~ 960MHz, 1.71 ~ 2.17GHz	-1.3dBi, -1.5dBi	627-1021-1-ND ***NEW!***	11.83	10.57	9.30	1,000	3803.00	A10315
10	Calvus Penta-band SMD	824 ~ 960MHz, 1.71 ~ 2.17GHz	-1.8dBi, -1.6dBi	627-1022-1-ND ***NEW!***	11.06	9.88	8.69	1,500	3555.00/M	A10340
11	Mixtus Dual-band Wi-Fi SMD	2.4 ~ 2.5GHz, 4.9 ~ 5.9GHz	-0.5dBi, -2.3dBi	627-1023-1-ND ***NEW!***	8.75	7.82	6.88	2,000	2813.00/M	A10194
12	Brevis GPS SMD	1575MHz	-2.4dBi	627-1024-1-ND ***NEW!***	10.71	9.57	8.42	2,000	3443.00/M	A10204
				Evaluation Kit						
—	Evaluation Kit for SiRFstarIII Module			627-1020-ND†	330.00	—	—	—	—	M10214-K1

◊ For Tape and Reel part number, change 1-ND to 2-ND. † Bulk Δ RHCP @ 1575MHz

Fig. 8

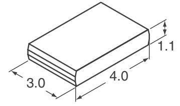

Fig. 9 ***NEW!***

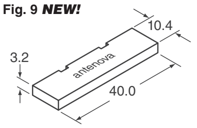

Fig. 10 ***NEW!***

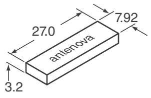

Fig. 11 ***NEW!***

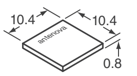

Fig. 12 ***NEW!***

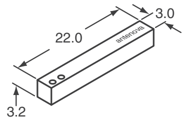

artaflex WirelessUSB™ Modules

Operating in the 2.4GHz ISM band, the Falcon series modules are based on Cypress's WirelessUSB LP technology. The modules offer low-power consumption and deliver data rates up to 1Mb/s, with ranges between 50 meters for print antenna devices up to 1 kilometer for devices equipped with a power amplifier. Additionally, WirelessUSB LP features direct sequence spread-spectrum (DSSS) technology, which provides the industry's most robust immunity for interference from other technologies like 802.11b/g, Bluetooth, cordless phones and microwave ovens. The modules feature a data transmission rate of up to 1Mbps with an average latency of below 2 milliseconds. The modules are certified with modular grants by the Federal Communications Commission (FCC), the European Telecommunications Standards Institute (ETSI), and industry Canada, translating into modular approval and eliminating the need to test for RF compliance.

Description	Data Rates DSSS (kbps)	GFSK (Mbps)	Range	Operating Current (mA)	Operating Voltage (V)	Dimensions (mm)	Digi-Key Part No.	Price Each 1	10	100	Artaflex Part No.
Integrated Print Antenna	250	1	50 Meters	21	2.4 ~ 3.6	38.1 x 25.4	748-1000-ND	12.99	9.99	7.99	AWP24S
Integrated Power Amplifier	250	1	up to 1 Kilometer	<100	2.4 ~ 3.6	25.4 x 20.3	748-1003-ND	31.99	24.99	19.99	AWA24S
Integrated Chip Antenna Radio with Open 12 Pin Header in Commercial Temperature	250	1	up to 20 Meters Indoor or 40 Meters LOS	21	2.4 ~ 3.6	16.0 x 13.5	748-1004-ND ***NEW!***	13.99	10.99	8.99	AW24MCHL-H2
Integrated Chip Antenna Radio in SMT Package, Commercial Temperature	250	1		21	2.4 ~ 3.6	19.0 x 13.5	748-1005-ND ***NEW!***	13.99	11.25	9.25	AW24MCHL-SM
CyFi Radio Module with U.FL External Antenna Connector and Open 12 Pin Header in Commercial Temperature	250	1		21	2.4 ~ 3.6	15.0 x 13.5	748-1006-ND ***NEW!***	17.49	14.49	11.49	AW24MUFL-H2
			WirelessUSB Dongle								
Full Speed USB (12Mbps)	250	1	30 Meters	40	5	59 x 20	748-1002-ND	31.99	24.99	19.99	AWP24U

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RFID Demo Kit

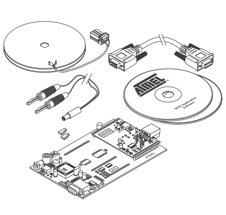

The RFID application kit is designed to present the key features of various RFID products from Atmel Wireless and Microcontrollers.
The included software version IDS 5 supports the following products: • U2270B on the reader side • TK5530/e5530 on the transponder side • 5551/T5557 on the transponder side • TK5552 on the transponder side • TK5561/e5561 on the transponder side • U9280M on the transponder side **Kit Includes:** • Base Station Coil • Serial Cable • Demo Board • Sample Transponders

Description	EPROM (Bytes)	Digi-Key Part No.	Price Each 1	25	100
125kHz	224	TK5551M-PP-NDΔ	4.09	2.77	2.38
RFID Application Kit		ATA2270-EK1-ND◆	523.75	—	—

Δ Read/Write ◆ ***RoHS Compliant***

Smart RF Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3741P2-TGQYCT-ND†◆	4.90	4.72	4.53	—	—
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3741P2-TGSY-ND◆	8.11	5.49	5.10	—	—
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3742P3-TGQYCT-ND†◆	5.28	5.08	—	—	—
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 310 ~ 440MHz	20-SOIC	ATA3745P3-TGQYCT-ND†◆	3.84	3.69	3.54	—	—
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 310 ~ 440MHz	20-SOIC	ATA3745P3-TGSY-ND◆	6.34	4.31	4.00	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 315MHz	48-QFN	ATA5423-PLQWCT-ND†	4.15	3.99	3.83	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 345MHz	48-QFN	ATA5425-PLQWCT-ND†◆	4.15	3.99	—	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 915MHz	48-QFN	ATA5429-PLQWCT-ND†◆	4.15	3.99	—	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 434MHz / 868MHz	48-QFN	ATA5811-PLHCCT-ND†	8.79	5.53	—	4,000	4908.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 315MHz	48-QFN	ATA5812-PLQCT-ND†	8.79	5.53	—	4,000	4908.00/M
WDECT/ISM Single-Chip Transceiver IC, 3 ~ 4.6V, 2.4GHz	48-QFN	T2803-PLHCT-ND†	9.75	9.38	9.00	—	—
Low Power Transceiver for 802.15.4, ISM, and Zigbee™ Applications	32-QFN	AT86RF212-ZU-ND◆	5.25	3.50	3.23	—	—
Low Power Transceiver for 802.15.4, ISM, and Zigbee Applications	32-QFN	AT86RF231-ZU-ND◆	4.73	3.16	2.91	—	—
Wireless Data Micro Transmitter, 315MHz	20-TSSOP	AT86RF401U-6GS-ND	1.90	1.83	1.76	—	—
SiGe IF Receiver/Demodulator, 65 ~ 300MHz	16-TSSOP	T0797-6CPCT-ND†	6.24	6.00	5.76	1,000	5760.00
SiGe IF Receiver/Demodulator, 65 ~ 300MHz	16-TSSOP	ATR0797-6CPCT-ND†◆	5.59	5.38	5.16	—	—
SiGe Universal Usable RF Power Amplifier, 3.5V, 135 ~ 600MHz	28-PSSOP	T0905-TSPHCT-ND†	5.85	5.63	5.40	1,000	5400.00
High Linearity SiGe Active Receiver Mixer, 5V, 800 ~ 1000MHz	16-TSSOP	T0780-6CPCT-ND†	7.44	7.16	6.87	1,000	6870.00
Transceiver Base Station Board for ATA5423, 315MHz	—	ATAB5423-3-WB-ND◆	223.75	—	—	—	—
Transceiver Base Station Board for ATA5428, 434MHz	—	ATAB5428-4-WB-ND◆	223.75	—	—	—	—
Transceiver Base Station Board for ATA5428, 868MHz	—	ATAB5428-8-WB-ND◆	223.75	—	—	—	—
Transceiver Base Station Board for ATA5429, 915MHz	—	ATAB5429-9-WB-ND◆	223.75	—	—	—	—
Reference Design for T5753, 315MHz	—	ATAB5753-ND	208.75	—	—	—	—
Reference Design for T5754, 434MHz	—	ATAB5754-ND	208.75	—	—	—	—
Reference Design for T5750, 868MHz	—	ATAB5750-8-ND	208.75	—	—	—	—
Reference Design for T5750, 915MHz	—	ATAB5750-9-ND	208.75	—	—	—	—
PC-Controlled Application Board for T6817 with Dual Triple DMOS Output Driver	—	ATAB6817-ND◆	208.75	—	—	—	—
RF-Module Development Board for ATR2406	—	ATR2406-DEV-BOARD-ND	292.50	—	—	—	—
Long Range RF-Module Development Board for ATR2406 / ATmega88	—	ATR2406-DEV-BOARD2-ND	292.50	—	—	—	—
Starter Kit for STK500, 315MHz	—	ATAKSTK511-3-ND	392.60	—	—	—	—
Starter Kit for STK500, 915MHz	—	ATAKSTK511-9-ND	448.75	—	—	—	—
Evaluation Kit with ATR2406 and ATmega88 Boards	—	ATR2406-DEV-KIT2-ND	750.00	—	—	—	—
RF Design Kit, 868MHz	—	ATAK5750-60-N-ND	513.50	—	—	—	—
RF Design Kit, 915MHz	—	ATAK5750-61-N-ND	513.50	—	—	—	—
RF Design Kit T5754, 434MHz, 600kHz Bandwidth, with SAW Filter	—	ATAK5754-43P6-S-ND	513.50	—	—	—	—
Development Kit for ATA5744U (USA)	—	ATAK4015744U-ND	455.00	—	—	—	—
Development Kit for AT86RF401U	—	AT86RF401U-EK1-ND	193.70	—	—	—	—
GPS-LNA Demoboard for Performance Evaluation	—	ATR0610-EK1-ND◆	300.00	—	—	—	—
Starter Kit for ATmega32M1 and ATmega32C1	—	ATSTK524-ND◆	84.24	—	—	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ◆ ***RoHS Compliant***

AVR® ZigBee™

AVR Z-Link provides an industry-leading 2.4GHz transceiver bundled with an 8-Bit RISC microcontroller (ATmega). The AT86RF230 radio gives you the highest link budget of any 802.15.4 radio on the market today. The ATmega series of AVR MCUs enables you to choose from 32KB to 256KB to fit the needs of your design.

Description	Package	Digi-Key Part No.	Price Each 1	25	100
MCU ATmega644 / AT86RF230	44-TQFP	ATMEGA64RZAV-10AU-ND	9.72	6.49	5.98
MCU ATmega644 / AT86RF230	44-QFN	ATMEGA64RZAV-10MU-ND	9.72	6.49	5.98
MCU ATmega644 / AT86RF230	40-DIP	ATMEGA64RZAV-10PU-ND	9.83	6.56	6.04
MCU ATmega644P / AT86RF230	44-TQFP	ATMEGA64RZAPV-10AU-ND	7.13	—	—
MCU ATmega644P / AT86RF230	44-QFN	ATMEGA64RZAPV-10MU-ND	7.13	—	—
MCU ATmega1281 / AT86RF230	64-TQFP	ATMEGA128RZAV-8AU-ND	14.96	9.99	9.20
MCU ATmega1280 / AT86RF230	100-TQFP	ATMEGA128RZBV-8AU-ND	17.01	11.35	10.46
MCU ATmega1280 / AT86RF230	100-TQFP	ATMEGA128RZBV-8CU-ND	12.99	—	—
MCU ATmega2561 / AT86RF230	64-TQFP	ATMEGA256RZAV-8AU-ND	17.76	11.85	10.92
MCU ATmega2561 / AT86RF230	64-QFN	ATMEGA256RZAV-8MU-ND	17.76	11.85	10.92
MCU ATmega2560 / AT86RF230-ZU	100-TQFP	ATMEGA256RZBV-8AU-ND	19.82	13.23	12.19
MCU ATmega2560 / AT86RF230-ZU	100-TQFP	ATMEGA256RZBV-8CU-ND	15.01	—	—
2.4GHz ISM Band Transceiver with Microcontroller	64-QFN	ATMEGA128RFA1-ZU-ND ***NEW!***	9.46	6.32	5.82
Low-Power 2.4GHz Transceiver	32-QFN	AT86RF230-ZU-ND	3.70	2.47	2.28
2.4GHz IEEE802.15.4/ZigBee OEM Module with Dual Chip Antenna	—	ATZB-24-A2RCT-ND† ***NEW!***	30.08	18.89	—
2.4GHz IEEE802.15.4/ZigBee OEM Module with Dual Chip Antenna	—	ATZB-24-A2RTR-ND‡ ***NEW!***		3637.51/200	
2.4GHz IEEE802.15.4/ZigBee OEM Module with Balanced RF Port	—	ATZB-24-B0RCT-ND† ***NEW!***	27.80	17.46	16.81
2.4GHz IEEE802.15.4/ZigBee OEM Module with Balanced RF Port	—	ATZB-24-B0RTR-ND‡ ***NEW!***		3361.90/200	
783/868/915MHz IEEE802.15.4/ZigBee Wireless Module with Balanced RF Port	—	ATZB-900-B0RCT-ND† ***NEW!***	29.13	18.30	17.62
783/868/915MHz IEEE802.15.4/ZigBee Wireless Module with Balanced RF Port	—	ATZB-900-B0RTR-ND‡ ***NEW!***		3523.11/200	
2.4GHz IEEE802.15.4/ZigBee Power Amplified OEM Module with Unbalanced RF Output	—	ATZB-A24-U0RCT-ND† ***NEW!***	48.38	30.38	29.25
2.4GHz IEEE802.15.4/ZigBee Power Amplified OEM Module with Unbalanced RF Output	—	ATZB-A24-U0RTR-ND‡ ***NEW!***		5850.00/200	
2.4GHz IEEE802.15.4/ZigBee Power Amplified OEM Module with U.FL Antenna Connector	—	ATZB-A24-UFLRCT-ND† ***NEW!***	49.02	30.78	29.64
2.4GHz IEEE802.15.4/ZigBee Power Amplified OEM Module with U.FL Antenna Connector	—	ATZB-A24-UFLRTR-ND‡ ***NEW!***		5928.00/200	

† Cut Tape ‡ Tape and Reel *(Continued)*

ATAVRRZ502 RF Accessory Kit

The RZ502 RF accessory kit enables point to point links development, debugging and demonstration. More advanced network topologies can be developed by adding additional RF accessory kits. The kit is top modules for the STK500 AVR starter kit and requires a STK500 and STK501 for development purposes.

ATAVRRZ502-ND $206.96

ATAVRRZUSBSTICK

The AVR RZUSBSTICK consists of one USB stick with a 2.4GHz transceiver and USB connection to your PC. The AT86RF230 transceiver's high sensitivity gives the longest range for wireless products, while the AT90USB1287 incorporates fast USB On-The-Go.

ATAVRRZUSBSTICK-ND...................... $40.56

NEW! ATAVR128RFA1-EK1-ND Evaluation Kit

The ATmega128RFA1 evaluation kit enables development, debugging and demonstration of IEEE 802.15.4-compliant wireless applications such as ZigBee and 6LoWPAN. The kit contains two evaluation boards for the ATmega128RFA1 device, covering the 2.4GHz ISM bands for use with STK600.

ATAVR128RFA1-EK1-ND $102.96

ATAVRRZ201 Controller Boards and Software Kit

The RZ201 kit contains five 2.4GHz 802.15.4-compliant and ZigBee-compatible Radio-Controller Boards equipped with an ATmega1281V microcontroller and AT86RF230 transceiver. By offering additional RCB's, the RZ201 kit complements the RZ200 kit, enabling demonstration of larger wireless networks based on 802.15.4 and ZigBee.

ATAVRRZ201-ND $414.96

ATAVRRZ541 Packet Sniffer Kit

The RZ541 Packet Sniffer Kit is the ideal platform for analyzing 802.15.4 and ZigBee wireless networks.

Included is the basic edition of the Sensor Network Analyzer software from Daintree Networks, which enables visualization, measurement and analysis of large networks.

ATAVRRZ541-ND $310.96

ATAVRRZRAVEN 2.4GHz Evaluation Kit

The RZRAVEN 2.4GHz evaluation and starter kit enables development, debugging and demonstration of a wide range of low power wireless applications including IEEE 802.15.4, 6LoWPAN and ZigBee networks. The RZRAVEN kit comprises two AVR Raven boards (AVRRAVEN) with 2.4GHz transceiver, on-board picoPower™ AVR application processors and LCD display, and one USB stick (AVRRZUSBSTICK) with a 2.4GHz transceiver for USB connection to your PC.

ATAVRRZRAVEN-ND...................... $123.76

NEW! ATAVRRZ600 Evaluation Kit

The RZ600 evaluation kit enables development, debugging and demonstration of IEEE 802.15.4-compliant wireless applications such as ZigBee and 6LoWPAN. The kit contains evaluation boards for the AT86RF212 and AT86RF23x families of RF transceivers, covering the regional 700/800/900MHz and worldwide 2.4GHz ISM bands for use with STK600.

ATAVRRZ600-ND $186.16

Bluetooth® Devices

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-VQFN	T7024-PGPMCT-ND	1.83	1.36
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGPMTR-ND‡	1530.00/1,500	
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-SSOP	T7024-TRQYCT-ND	1.78	1.13
Demo Board for T7024PGM	—	DEMOBOARD-T7024PGM-ND	375.00	—

‡ Tape and Reel

Cellular/Infrastructure ICs Devices

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Direct Quadrature Modulator, 5V, 800MHz ~ 2,500MHz	16-TSSOP	T0790-6CPCT-ND	13.31	12.80	12.29	T0790-6CPTR-ND	1,000	12282.00

NEW! 125kHz Transmitter IC for TPM

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1.5A Peak BCDMOS Antenna Driver IC	20-QFN	ATA5276M-PGPW 19CT-ND	4.95	3.11	ATA5276M-PGPW 19TR-ND	1,500	2760.00/M

Corded Phone ICs Devices

Description	Digi-Key Part No.	Price Each
Demo Board for U4089B	DEMOBOARD-U4089B-ND	325.00
Demo Board for U4090B.1	DEMOBOARD-U4090B.1-ND	325.00
Demo Board for U4091BM	DEMOBOARD-U4091BM-ND	375.00

Cordless Phone ICs Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
ISM Front End IC, DECT, 2.4GHz	20-QFN	T7026-PGPCT-ND†	3.25	3.13	3.00	1,500	3000.00/M
Demo Board for ATR2806	—	DEMOBOARD-ATR2806-ND	325.00	—	—	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Automotive Control Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
125kHz Transmitter for TPM, 8.0V ~ 24.0V	20-QFN	ATA5275-PGPICT-ND†◆	4.99	3.14	2.90	ATA5275-PGPITR-ND◆	1,500	2784.00/M
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGQCT-ND†	3.51	3.38	3.24	—	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGS-ND	3.51	3.38	3.24	—	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P6-TGQCT-ND†	5.81	4.86	4.05	—	—	—
UHF ASK/FSK Receiver, 5V ~ 20V, 300MHz ~ 450MHz for ASK or FSK	20-SOIC	T5743P6-TGS-ND	3.51	3.38	3.24	—	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5744N-TGQCT-ND†	2.86	2.75	2.64	—	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TK-ND	2.73	2.63	2.52	—	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGQCT-ND†	3.35	3.23	3.10	—	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGS-ND	3.35	3.23	3.10	—	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5761-TGQCT-ND†	5.55	4.65	3.87	T5761-TGQTR-ND	2,000	3096.00/M
UHF ASK/FSK Receiver, 5V ~ 20V, 902MHz ~ 928MHz	20-SOIC	T5761-TGS-ND	3.35	3.23	3.10	—	—	—
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P2FL-ND	3.51	3.38	3.24	—	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 315MHz ~ 433.92MHz	20-SOIC	U3741BM-P3FLG3CT-ND†	3.51	3.38	3.24	U3741BM-P3FLG3TR-ND	2,000	3240.00/M
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P3FL-ND	3.51	3.38	3.24	—	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3742BM-P3FL-ND	3.68	3.54	3.40	—	—	—
Stand-Alone Antenna Driver	28-QFN	ATA5278-PKQICT-ND†◆	4.52	4.35	4.18	—	—	—
Reference Design for T5744, 315MHz	—	ATAB5744-N3-ND	208.75	—	—	—	—	—
Reference Design for T5744, 315MHz	—	ATAB5744-S3-ND	208.75	—	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape

Amplifiers

ABA Series

Package	Typical Bias (V/mA)	Frequency Range (GHz)	Gain @ 2GHz (dB)	P1dB @ 2GHz (dBm)	NF @ 2GHz (dB)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-363	3/14	DC ~ 3.5	21.5	2.2	3.8	516-1490-1-ND	1.08	8.40	72.00	516-1490-2-ND	432.00/M	ABA-31563-TR1G
	5/18	DC ~ 3.5	21.5	1.8	3.7	516-1558-1-ND	1.01	8.74	69.00	—	—	ABA-51563-TR1G
	5/35	DC ~ 3.5	21.5	9.8	3.3	516-1836-ND†	.94	8.13	62.50	—	—	ABA-52563-BLKG
	5/35	DC ~ 3.5	21.5	9.8	3.3	516-1559-1-ND	1.00	8.50	72.50	516-1559-2-ND	437.50/M	ABA-52563-TR1G
	5/46	DC ~ 3.5	21.5	12.7	3.5	516-1837-ND†	1.16	10.08	77.50	—	—	ABA-53563-BLKG
	5/46	DC ~ 3.5	21.5	12.7	3.5	516-1560-1-ND	1.24	10.54	89.90	516-1560-2-ND	542.50/M	ABA-53563-TR1G
	5/79	DC ~ 3.4	23.0	16.1	4.4	516-1838-ND†	1.24	10.73	82.50	—	—	ABA-54563-BLKG
	5/79	DC ~ 3.4	23.0	16.1	4.4	516-1495-1-ND	1.32	11.22	95.70	—	—	ABA-54563-TR1G

† Bulk

ADA, MGA and ALM Series

Package	Frequency Range (GHz)	Test Frequency (GHz)	Vdd (V)	Idd (mA)	NF (dB)	Gain (dB)	P1dB (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-343	DC ~ 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1840-ND†	.90	7.00	54.00	—	—	ADA-4543-BLKG
	DC ~ 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1561-1-ND	.90	7.00	60.00	516-1561-2-ND	360.00/M	ADA-4543-TR1G
	DC ~ 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1841-ND†	.99	7.70	59.40	—	—	ADA-4643-BLKG
	DC ~ 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1562-1-ND	.99	7.70	66.00	516-1562-2-ND	396.00/M	ADA-4643-TR1G
	DC ~ 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1842-ND†	1.08	8.40	64.80	—	—	ADA-4743-BLKG
	DC ~ 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1563-1-ND	1.08	8.40	72.00	516-1563-2-ND	432.00/M	ADA-4743-TR1G
	0.4 ~ 6.0	1.9	5.0	53.0	1.9	14.2	17.5	516-1945-ND†	3.36	30.80	235.20	—	—	MGA-52543-BLKG
	0.05 ~ 6.0	1.9	5.0	54.0	1.5	15.4	18.6	516-1946-ND†	3.96	36.30	277.20	—	—	MGA-53543-BLKG
	0.05 ~ 6.0	1.9	5.0	54.0	1.5	15.4	18.6	516-1826-1-ND	4.62	40.92	316.80	516-1826-2-ND	1689.60/M	MGA-53543-TR1G
	0.1 ~ 6.0	2.01	3.0	10.0	1.1	15.9	3.0	516-1952-ND†	2.24	21.00	168.00	—	—	MGA-71543-BLKG
	0.1 ~ 6.0	2.0	3.0	20.0	1.5	14.4	11.2	516-1953-ND†	2.66	24.90	199.20	—	—	MGA-72543-BLKG
	0.1 ~ 6.0	2.0	3.0	20.0	1.5	14.4	11.2	516-1829-1-ND	3.11	27.39	232.40	516-1829-2-ND	1079.00/M	MGA-72543-TR1G
SOT-363	0.1 ~ 1.5	0.5	3.0	10.0	1.0	19.7	17.5	516-2129-ND†	1.80	15.60	120.00	—	—	MGA-68563-BLKG
	0.1 ~ 1.5	0.5	3.0	10.0	1.0	19.7	17.5	516-2130-1-ND	1.92	16.32	139.20	516-2130-2-ND	648.00/M	MGA-68563-TR1G
	0.1 ~ 6.0	2.0	3.0	41.0	1.0	15.5	15.1	516-1949-ND†	2.46	23.10	184.80	—	—	MGA-61563-BLKG
	0.1 ~ 3.0	0.5	3.0	62.0	0.8	22.0	18.0	516-1950-ND†	2.66	24.90	199.20	—	—	MGA-62563-BLKG
	0.1 ~ 3.0	0.5	3.0	62.0	0.8	22.0	18.0	516-1828-1-ND	3.11	27.39	232.40	516-1828-2-ND	1079.00/M	MGA-62563-TR1G
	0.1 ~ 6.0	2.0	3.0	42.0	2.7	12.3	14.8	516-1954-ND†	2.37	22.20	177.60	—	—	MGA-81563-BLKG
	0.1 ~ 6.0	2.0	3.0	42.0	2.8	12.4	14.8	516-1586-1-ND	2.78	24.42	207.20	516-1586-2-ND	1184.00/M	MGA-81563-TR1G
	0.1 ~ 6.0	2.0	3.0	84.0	2.2	13.5	17.3	516-1955-ND†	2.78	26.10	208.80	—	—	MGA-82563-BLKG
	0.1 ~ 6.0	2.0	3.0	84.0	2.2	13.2	17.3	516-1587-1-ND	3.26	28.71	243.60	516-1587-2-ND	1392.00/M	MGA-82563-TR1G
	0.5 ~ 6.0	2.0	3.0	152.0	—	23.0	19.7	516-1956-ND†	3.51	32.18	245.70	—	—	MGA-83563-BLKG
	0.8 ~ 6.0	2.0	3.0	15.0	1.6	19.0	0.9	516-1957-ND†	2.75	25.80	206.40	—	—	MGA-85563-BLKG
	0.8 ~ 6.0	2.0	3.0	15.0	1.6	19.0	0.9	516-1830-1-ND	3.23	28.38	240.80	516-1830-2-ND	1118.00/M	MGA-85563-TR1G
	0.5 ~ 6.0	2.0	5.0	14.0	1.8	20.0	4.1	516-1958-5-ND‡	3.10	29.10	232.80	—	—	MGA-86563-BLKG
	0.5 ~ 6.0	2.0	5.0	14.0	1.8	20.0	4.1	516-1831-1-ND	3.64	32.01	271.60	516-1831-2-ND	1261.00/M	MGA-86563-TR1G
	0.5 ~ 4.0	2.0	3.0	4.5	1.8	14.0	-2.0	516-1588-1-ND	3.15	27.72	235.20	516-1588-2-ND	1344.00/M	MGA-87563-TR1G
	1.5 ~ 8.0	4.0	5.0	16.0	1.6	23.0	6.0	516-2131-ND†	8.69	80.50	611.80	—	—	MGA-86576-STRG
6-UTP	1.5 ~ 3.0	2.4	3.0	7.0	1.1	15.0	-5.0	516-2128-ND†	—	17.64	141.75	—	—	MGA-645T6-BLKG
8-SMD	0.05 ~ 7.0	2.0	3.3	92	2.7	16.3	21.7	516-1947-ND†	3.96	36.30	277.20	—	—	MGA-545P8-BLK
8-LPCC	1.7 ~ 3.0	2.452	3.3	95	—	25.5	25.3	516-1825-1-ND	1.99	17.49	148.40	516-1825-2-ND	689.00/M	MGA-412P8-TR1G
	Up to 3.5	2.0	5.0	67	—	21.8	20	516-1948-ND†	3.30	30.25	231.00	—	—	MGA-565P8-BLK
	Up to 3.5	2.0	5.0	67	—	21.8	20	516-1827-1-ND	3.85	34.10	264.00	516-1827-2-ND	1408.00/M	MGA-565P8-TR1
	0.5 ~ 6.0	2.4	3.0	20.5	1.18	18.42	7.41	516-1951-ND†	—	33.00	252.00	—	—	MGA-665P8-BLK
8-TSLP	1.4 ~ 3.0	1.95	4.0	60	0.62	17.6	19.2	516-2127-ND†	—	42.50	348.50	—	—	MGA-632P8-BLKG
12-MCOB	1.575	1.575	2.85	8.0	0.82	13.5	2.7	516-1998-1-ND	3.68	32.55	252.00	516-1998-2-ND	1344.00/M	ALM-1412-TR1G

† Bulk ‡ Tube

MSA Series

Package	Frequency Range (GHz)	NF @ Frequency (dB) (GHz)	Gain @ Frequency (dB) (GHz)	P1dB @ Frequency (dBm) (GHz)	IP3 @ Frequency (dBm) (GHz)	Vcc (V) Min.	Device Voltage (V)	Device I (mA) Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Avago Part No.
05-SMD	0.05 ~ 1.3	3.6/0.5	12.0/0.5	17.5/0.5	30.0/0.5	8	5.5	80	516-1593-1-ND	4.38	38.75	300.00	500	1187.50	MSA-1105-TR1G
	0.05 ~ 1.3	3.6/0.5	12.0/0.5	17.5/0.5	30.0/0.5	8	5.5	80	516-1968-ND†	3.75	34.38	262.50	—	—	MSA-1105-STRG
86-SMD	DC ~ 2.4	6.0/1.0	12.0/1.0	10.0/1.0	23.0/1.0	7	5.0	70	516-1959-ND†	2.88	27.00	216.00	—	—	MSA-0386-BLKG
	DC ~ 2.4	6.0/1.0	12.0/1.0	10.0/1.0	23.0/1.0	7	5.0	70	516-1832-1-ND	3.38	29.70	252.00	1,000	1237.50	MSA-0386-TR1G
	DC ~ 3.2	7.0/1.0	8.0/1.0	12.5/1.0	25.5/1.0	7	5.25	85	516-1960-ND†	3.00	27.50	210.00	—	—	MSA-0486-BLKG
	DC ~ 0.8	3.0/0.5	18.5/0.5	2.0/0.5	14.5/0.5	5	3.5	50	516-1963-ND†	2.72	25.50	204.00	—	—	MSA-0686-BLKG
	DC ~ 0.8	3.0/0.5	18.5/0.5	2.0/0.5	14.5/0.5	5	3.5	50	516-1591-1-ND	3.19	28.05	238.00	1,000	1487.50	MSA-0686-TR1G
	DC ~ 2.0	5.0/1.0	12.5/1.0	5.5/1.0	19.0/1.0	5	4.0	60	516-1964-ND†	3.14	29.40	235.20	—	—	MSA-0786-BLKG
	to 5.5	3.3/1.0	22.5/1.0	12.5/1.0	27.0/1.0	10	7.8	65	516-1966-ND†	2.08	19.50	156.00	—	—	MSA-0886-BLKG
	DC ~ 4	3.3/1.0	22.5/1.0	12.5/1	27.0/1.0	10	7.8	65	516-1592-1-ND	2.44	21.45	182.00	1,000	1137.50	MSA-0886-TR1G
	0.1 ~ 5.5	6.2/2.0	7.2/2.0	10.5/2.0	23.0/2.0	12	7.8	65	516-1967-ND†	4.20	38.50	294.00	—	—	MSA-0986-BLKG
	DC ~ 0.5	3.5/1.0	18.7/1.0	9.0/1.0	21.0/1.0	7	4.7	60	516-1971-ND†	3.30	30.25	231.00	—	—	MSA-3186-BLKG
SOT-143	DC ~ 2.3	6.0/1.0	11.0/1.0	9.0/1	22.0/1.0	7	4.7	60	516-1589-1-ND	3.19	28.05	238.00	3,000	1360.00/M	MSA-0311-TR1G
	DC ~ 0.7	3.0/0.5	18.0/0.5	2.0/0.5	14.0/0.5	5	3.3	40	516-1961-ND†	1.92	18.00	144.00	—	—	MSA-0611-BLKG
	DC ~ 0.9	3.3/0.9	17.5/0.9	10.0/0.9	20.0/0.9	5	3.6	40	516-1970-ND†	3.15	28.88	220.50	—	—	MSA-2111-BLKG
	DC ~ 0.5	3.3/0.9	17.5/0.9	10.0/0.9	20.0/0.9	5	3.6	40	516-1594-1-ND	3.68	32.55	252.00	3,000	1522.50/M	MSA-2111-TR1G
70-MIL	DC ~ 0.5	2.8/0.5	20.5/0.1	2.0/0.5	14.5/0.5	5	3.5	50	516-1962-ND†	31.16	277.00	2216.00	—	—	MSA-0670
100-MIL	0.05 ~ 1.6	3.5/0.5	12.5/0.1	17.5/0.5	30.0/0.5	—	5.5	90	516-1969-ND†	43.09	383.00	3064.00	—	—	MSA-1110
36MICRO-X	to 6.0	3.0/1.0	23.0/1.0	12.5/1.0	27.0/1.0	10	7.8	80	516-1965-ND†	16.13	151.58	1128.75	—	—	MSA-0836-BLKG

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

AMMC and AMMP Series

Description	Drain Voltage Vd (V)	Gain (dB)	NF (dB)	Digi-Key Part No.	Bulk Pricing 1	10	100	Avago Part No.
20 ~ 45 GHz GaAs Amplifier	5.0	25.0	7.0	516-1847-ND	—	320.00	2560.00	AMMC-5040-W10
6 ~ 20 GHz General Purpose Amplifier	7.0	13.0	4.4	516-1852-ND	51.28	487.16	3589.60	AMMP-5618-BLK
6 ~ 20 GHz Amplifier	7.0	14.5	4.4	516-1848-ND	—	320.00	2560.00	AMMC-5618-W10
20 ~ 45 GHz Driver Amplifier	7.0	18.0	8.5	516-1851-ND	—	300.00	2400.00	AMMC-6345-W10
6 ~ 20 GHz Low Noise Amplifier	7.0	22.0	2.5	516-1854-ND	44.00	418.00	3080.00	AMMP-6220-BLK
6 ~ 20 GHz Low Noise Amplifier	7.0	23.0	2.1	516-1850-ND	—	418.00	3080.00	AMMC-6220-W10
30 KHz ~ 40 GHz Traveling Wave Amplifier	10.0	16.0	4.6	516-1845-ND	—	1170.00	10530.00	AMMC-5024-W10
2 ~ 35 GHz GaAs MMIC Traveling Wave Amplifier	10.0	10.5	3.6	516-1846-ND	—	561.00	4537.50	AMMC-5026-W10

NPN Silicon Bipolar Transistors

Package	Frequency (GHz)	Vce (V)	NFo (dB)	Ga (dB)	P1dB (dBm)	G1dB (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Avago Part No.
SOT-23	0.9	2.7	1.0	12.5	13.0	15.0	516-1566-1-ND	.67	5.04	39.60	516-1566-2-ND	3,000	222.00/M	AT-32033-TR1G
	0.9	5.0	1.0	14.5	14.5	14.5	516-1570-1-ND	.73	5.46	42.90	516-1570-2-ND	3,000	240.50/M	AT-41533-TR1G
SOT-143	0.9	5.0	1.0	15.5	14.5	17.5	516-1568-1-ND	.73	5.46	42.90	516-1568-2-ND	3,000	240.50/M	AT-41511-TR1G
SOT-323	0.9	5.0	1.0	15.5	14.5	14.5	516-1569-1-ND	.68	5.25	45.00	516-1569-2-ND	3,000	270.00/M	AT-41532-TR1G
SOT-363	0.9	2.7	1.1	14.5	12.0	16.0	516-1567-1-ND	.77	5.95	51.00	516-1567-2-ND	3,000	306.00/M	AT-32063-TR1G
35-SMD	2.0	12	1.7	14.0	19.0	14.0	516-1856-ND†	8.78	81.25	617.50	—	—	—	AT-41435G
	2.0	12	2.0	13.5	21.0	14.0	516-1858-ND†	7.83	72.50	551.00	—	—	—	AT-42035G
85-SMD	2.0	12	2.0	13.5	20.5	14.0	516-1859-ND†	2.56	24.00	192.00	—	—	—	AT-42085G
86-SMD	2.0	12	1.7	13.0	18.0	13.5	516-1857-ND†	2.59	24.30	194.40	—	—	—	AT-41486-BLKG
	2.0	12	1.9	13.0	20.5	13.5	516-1860-ND†	2.56	24.00	192.00	—	—	—	AT-42086-BLKG
	2.0	12	1.9	13.0	20.5	13.5	516-1783-1-ND	3.00	26.40	224.00	516-1783-2-ND	1,000	1100.00	AT-42086-TR1G
200-SMD	2.0	20	—	—	27.5	10.0	516-1861-ND†	41.74	371.00	2968.00	—	—	—	AT-64020

† Bulk

HEMTs

Package	Gate Width (µm)	Frequency Range (GHz)	Test Frequency (GHz)	Vdd (V)	Idd (mA)	NF (dB)	Ga (dB)	OIP3 (dBm)	P1dB (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Pricing 3,000	Avago Part No.
SOT-89	—	0.4 ~ 3.9	2.0	4.5	280	1.1	15.5	45.0	29.0	516-1867-ND†	6.86	63.50	482.60	—	ATF-50189-BLK
SOT-343	1600	0.45 ~ 10	2.0	4.0	80	0.5	15.0	33.5	22.0	516-1862-ND†	4.11	37.68	287.70	—	ATF-33143-BLKG
	800	0.45 ~ 10	2.0	4.0	60	0.5	17.5	31.5	20.0	516-1863-ND†	3.51	32.18	245.70	—	ATF-34143-BLKG
	800	0.45 ~ 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1571-1-ND	3.51	31.59	257.40	—	ATF-34143-TR1G
	400	0.45 ~ 10	2.0	2.0	15	0.4	18.0	21.0	10.0	516-1864-ND†	1.84	15.93	122.50	—	ATF-35143-BLKG
	400	0.45 ~ 10	2.0	2.0	15	0.4	18.0	21.0	10.0	516-1784-1-ND	1.96	16.66	142.10	661.50/M	ATF-35143-TR1G
	—	0.45 ~ 10	2.0	2.0	10	0.4	16.0	22.0	12.0	516-1866-ND†	1.31	11.38	87.50	—	ATF-38143-BLKG
	800	0.45 ~ 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1868-ND†	4.23	38.78	296.10	—	ATF-54143-BLKG
	800	0.45 ~ 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1572-1-ND	4.94	43.71	338.40	2044.50/M	ATF-54143-TR1G
	400	0.45 ~ 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1869-ND†	1.60	15.00	120.00	—	ATF-55143-BLKG
	400	0.45 ~ 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1573-1-ND	1.88	16.50	140.00	800.00/M	ATF-55143-TR1G
	—	0.45 ~ 6	2.0	3.0	30	0.5	16.5	30.5	19.0	516-1870-ND†	2.69	25.20	201.60	—	ATF-58143-BLKG
77-SMD	200	2.0 ~ 18	4.0	3.0	25	0.3	17.0	—	5.0	516-1865-ND†	6.89	63.75	484.50	—	ATF-36077-STR

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Decoders/Counters

Description	Package	Counter	Digi-Key Part No.	Bulk Pricing 1	10	100	Avago Part No.
14 MHz Clock Operation	16-DIP	12-bit	516-1880-5-ND	21.08	198.11	1475.25	HCTL-2001-A00
14 MHz Clock Operation	16-DIP	16-bit	516-1881-5-ND	21.08	198.11	1475.25	HCTL-2017-A00
14 MHz Clock Operation	20-PLCC	16-bit	516-1882-5-ND	22.50	211.50	1575.00	HCTL-2017-PLC
14 MHz Clock Operation, Quadrature Decoder Output Signals, Cascade Output Signals	20-DIP	16-bit	516-1883-5-ND	21.68	203.75	1517.25	HCTL-2021-A00
14 MHz Clock Operation, Quadrature Decoder Output Signals, Cascade Output Signals	20-PLCC	16-bit	516-1884-5-ND	22.50	211.50	1575.00	HCTL-2021-PLC
33 MHz Clock Operation, Dual Axis, Decoder and Cascade Outputs, Index Channel Support and Programmable Count Modes	32-SOIC	32-bit	516-1885-5-ND	12.15	112.50	855.00	HCTL-2032-SC

Multiplier and Switch

Description	Digi-Key Part No.	Bulk Pricing 1	10	100	Avago Part No.
8 ~ 24 GHz, x2 Frequency Multiplier	516-1853-ND	27.00	240.00	1920.00	AMMP-6120-BLK
DC ~ 50 GHz, SPDT Switch	516-1844-ND	—	340.00	2720.00	AMMC-2008-W10

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX Thin Film Low Pass Filters

Digi-Reel® RoHS COMPLIANT

The LP0603 ITF (Integrated Thin Film) Lead-Free LGA Low Pass Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Low Pass Filters are offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

Features:

• Miniature Size (0603) • Frequency Range: 900MHz ~ 2.4GHz • Low profile • Self alignment during reflow • Excellent solderability • Low Parasitics • Better heat dissipation • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -40°C ~ 85°C • Power Rating: 3W • VSWR: 1.4 dB Max. • Impedance: 50Ω

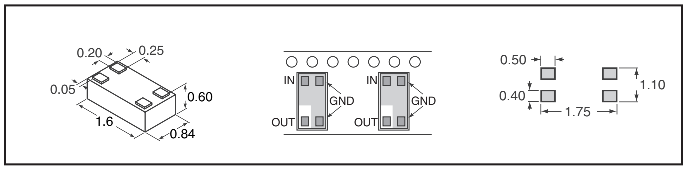

Frequency Range (GHz)	Insertion Loss Typ. (dB)	Attenuation (Min) @ Frequency (GHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	AVX Part No.
.890 ~ .915	0.35	25dB @ 1.804; 14dB @ 2.706	478-2908-1-ND	1.09	.95	.87	478-2908-2-ND	508.00/M	LP0603A0902ANTR
.935 ~ .960	0.35	25dB @ 1.894; 17dB @ 2.841	478-2909-1-ND	1.09	.95	.87	478-2909-2-ND	508.00/M	LP0603A0947ANTR
1.710 ~ 1.785	0.3	25dB @ 3.494; 17dB @ 5.241	478-2910-1-ND	1.09	.95	.87	478-2910-2-ND	508.00/M	LP0603A1747ANTR
1.840 ~ 1.920	0.3	25dB @ 3.760; 17dB @ 5.640	478-2912-1-ND	1.09	.95	.87	478-2912-2-ND	508.00/M	LP0603A1880ANTR
1.920 ~ 1.980	0.3	27dB @ 3.900; 15dB @ 5.850	478-2913-1-ND	1.09	.95	.87	478-2913-2-ND	508.00/M	LP0603A1950ANTR
2.110 ~ 2.170	0.3	27dB @ 4.280; 17dB @ 6.420	478-2914-1-ND	1.09	.95	.87	478-2914-2-ND	508.00/M	LP0603A2140ANTR
2.412 ~ 2.472	0.3	25dB @ 4.884; 17dB @ 7.326	478-2915-1-ND	1.09	.95	.87	478-2915-2-ND	508.00/M	LP0603A2442ANTR
3.400 ~ 3.600	0.3	30dB @ 7.000; 20dB @ 10.500	478-4320-1-ND	1.31	1.14	1.05	478-4320-2-ND	613.00/M	LP0603N3500ANTR
5.350 ~ 5.650	0.2	30dB @ 11.000; 20dB @ 16.500	478-4322-1-ND	1.31	1.14	1.05	478-4322-2-ND	613.00/M	LP0603N5500ANTR

NEW! 3dB 90° Directional Couplers

Digi-Reel® RoHS COMPLIANT

These couplers are based on thin film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

Features:

• Miniature size (0603) • Low insertion loss • High isolation

Land Grid Array Advantages:

• Inherent low profile • Self alignment during reflow • Excellent solderability • Low parasitics • Better heat dissipation

Applications:

• Balanced amplifiers and signal distribution in wireless communications

Fig. 1

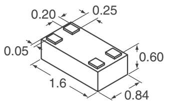

Fig. 2

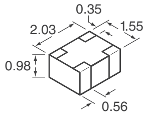

Fig.	Frequency Range (MHz)	Port Impedance Typ. (Ω)	Return Loss Typ. (dB)	Isolation Typ. (dB)	Insertion Loss Typ. (dB)	Phase Balance	Power Handling (W)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	AVX Part No.
1	2010 ~ 2025	50	25	23	0.3	3°	3	478-5971-1-ND	2.85	2.43	2.00	478-5971-2-ND	427.50	DB0603N2017ANTR\500
2	2010 ~ 2025	50	26	17	0.25	3°	5	478-5972-1-ND	2.50	2.13	1.75	478-5972-2-ND	375.00	DB0805A2017ASTR\500

Blue Radios A Wireless World Bluetooth® Modules and Accessories

Maximum Data Rate (Kbps)	Bluetooth Device Class	Connection	Supply Voltage (V)	Audio Connection	Profiles	Antenna	Digi-Key Part No.	Price Each	Blue Radios Part No.
921.6	1	UART, PCM	3.3	13-bit PCM	SPP, HSP,HFP, etc.	Chip-on Board	822-1003-ND‡◆	90.00	BR-C40A
921.6	2	UART, PCM	2.8 ~ 3.4	13-bit PCM	SPP, HSP,HFP, etc.	Chip-on Board	822-1005-ND‡◆	90.00	BR-C46AR
921.6	1	UART, PCM	3.3	13-bit PCM	SPP, HSP,HFP, etc.	Chip-on Board	822-1006-ND◆	90.00	BR-SC40A
921.6	1	UART, USB, PCM	3.3	13-bit PCM	HCI only	Chip-on Board	822-1011-ND‡◆	76.50	WML-C40AH
921.6	1	UART, USB, PCM	3.3	13-bit PCM	HCI only	RF Output	822-1012-ND‡◆	76.50	WML-C40NH
921.6	2	UART, USB, PCM	2.8 ~ 3.4	13-bit PCM	HCI only	Chip-on Board	822-1013-ND‡◆	76.50	WML-C46AHR
		Development Boards and Accessories							
BRC40A and BR-SC40A Development Kit, Power Supply, USB Bluetooth Dongle							822-1001-ND	399.00	BR-EVAL2.0
USB Bluetooth nano dongle							822-1010-ND◆	24.99	BR-USB-BTV2.1

‡ Tray ◆ ***RoHS Compliant***

C-MAX® Antennas

RF Technology Specialist

RoHS COMPLIANT

Application	Number of Turns	Inductance	Unloaded Q (Minimum)	Digi-Key Part No.	Price Each 1	10	100	C-Max Part No.
Watch	228	985H	55	561-1002-ND	2.52	2.37	1.58	CMA-60-19
Watch	203	985H	50	561-1003-ND	2.55	2.36	1.57	CMA-60-24
Table Clock	147	1.5mH	120	561-1004-ND	1.86	1.76	1.35	CMA-60-60
Wall Clock	139	1.5mH	110	561-1001-ND	2.04	1.87	1.40	CMA-60-100
Watch	188	2.33mH	100	561-1019-ND	1.98	1.85	1.32	CMA-MF-60

Test Equipment

Description	Digi-Key Part No.	Price Each	C-Max Part No.
Time Signal Generator for UTC	561-1018-ND◆	550.00	TSG100
Loop Antenna for TSG400/800, 5-10 Meters	561-1000-ND	395.00	1LA

◆ ***RoHS Compliant***

C-MAX®
RF Technology Specialist

Universal Time Code (UTC) Receivers and Demo Boards

Digi-Reel® RoHS COMPLIANT

C-MAX Solutions provide a universal time code receiver with very low power operation for Radio Controlled Time applications. The **CME8000** provides a simple solution for worldwide operation with integrated Crystal and antenna switching for up to 3 frequencies, operation at less than 100µA and down to 1.2 Volts ~ 5 Volts. The **CME6005** is the first generation receiver providing dual-band operation at very low power (sub 100µA, 1.2 Volts ~ 5 Volts).

Description	Digi-Key Part No.	Price Each	C-Max Part No.
UTC Receiver IC, 16-SSOP	561-1013-1-ND◊	2.94	CME6005-TCQH
UTC Receiver IC, 16-SSOP	561-1013-2-ND§	5280.00/4,000	CME6005-TCQH
UTC Receiver IC, 28-SSOP	561-1007-5-ND	3.86	CME8000-TLSH
UTC Receiver IC, 28-SSOP	561-1008-1-ND◊	3.99	CME8000-TLPH
UTC Receiver IC, 28-SSOP	561-1008-2-ND§	1729.00/1,000	CME8000-TLPH

Description	Digi-Key Part No.	Price Each	C-Max Part No.
UTC Receiver Module, Multi-Frequency, No CPU	561-1015-ND	19.34	CMMR-8P-MF
UTC Receiver Module, Multi-Frequency, with CPU	561-1016-ND	71.10	CMMC-8P-MF
UTC Receiver Module, 60kHz, No CPU	561-1014-ND	10.70	CMMR-6P-60
Evaluation Kit for CME8000, Includes Signal Generator	561-1012-ND	1350.00	CME8000-EK
Development Board for CME8000 UTC Receiver	561-1017-ND	225.00	CMMC-8I-DB

◊ Cut Tape § Tape and Reel

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connectBlue™
The strongest connection in a wireless world

Bluetooth® and WLAN Modules and Development Tools

RoHS COMPLIANT

connectBlue offers wireless serial port adapter module and housed-products with Bluetooth or Wireless LAN connectivity option. Various antenna options and connector options are available and each module is able to be controlled via AT Commands. The modules and housed units are FCC Certified, so require no further testing to implement.

Fig.	OutPut Power (dBm)	Max Baud Rate (kbps)	Supply Voltage (VDC)	Antenna Type	Features	Digi-Key Part No.	Price Each 1	10	50	connectBlue Part No.
					Bluetooth Modules					
1	3.5	921.6	3.0 ~ 6.0	Chip	SPP (Serial Port Profile), UART	809-1004-ND	38.40	35.52	32.64	CB-OEMSPA310I-04
2	7.0	921.6	3.0 ~ 6.0	Chip	SPP, UART	809-1007-ND	52.70	49.60	46.50	CB-OEMSPA311I-04
2	7.0	921.6	3.0 ~ 6.0	External	SPP, UART	809-1008-ND	56.95	53.60	50.25	CB-OEMSPA311X-04
3	7.0	921.6	3.0 ~ 6.0	Chip	SPP, UART or RS232, 20-Pin 2mm Header	809-1009-ND	82.40	77.25	73.39	CB-OEMSPA312I-02
3	7.0	921.6	3.0 ~ 6.0	External	SPP, UART or RS232, 20-Pin 2mm Header	809-1010-ND	87.36	81.90	77.81	CB-OEMSPA312X-02
2	17	921.6	3.3 ~ 6.0	Chip	SPP, UART	809-1011-ND	82.40	77.25	73.39	CB-OEMSPA331I-04
2	17	921.6	3.3 ~ 6.0	External	SPP, UART	809-1012-ND	87.36	81.90	77.81	CB-OEMSPA331X-04
3	17	921.6	3.3 ~ 6.0	Chip	SPP, UART or RS232, 20-Pin 2mm Header	809-1013-ND	104.16	97.65	92.77	CB-OEMSPA332I-02
3	17	921.6	3.3 ~ 6.0	External	SPP, UART or RS232, 20-Pin 2mm Header	809-1014-ND	114.08	106.95	101.61	CB-OEMSPA332X-02
					WLAN Modules					
4	17	2,700	3.3 ~ 5.5	Chip	WPA2 Supported, Low Power Sleep Mode	809-1019-ND	108.16	101.40	96.33	CB-OWSPA311GI-04
4	17	2,700	3.3 ~ 5.5	U.FL Connector	WPA2 Supported, Low Power Sleep Mode	809-1020-ND	108.16	101.40	96.33	CB-OWSPA311GX-04
					Bluetooth Adapters in Housings					
—	7.0	921.6	4.0 ~ 6.0	Internal	9-Pin DSUB Serial Interface	809-1026-ND	223.88	212.30	205.36	CB-SPA312I-02
—	7.0	921.6	4.0 ~ 6.0	Internal	9-Pin DSUB, Accessories Included	809-1025-ND	252.63	—	—	CB-SPA312I-01
—	20	921.6	9.0 ~ 30.0	Internal	Ethernet 10/100BASE-T, Accessories Included	809-1029-ND	324.75	—	—	CB-RBEPAI-02-A
					WLAN Adapters in Housings					
—	17	921.6	4.0 ~ 6.0	Internal	9-Pin DSUB Serial Interface	809-1028-ND	232.50	—	—	CB-WSPA311GI-02
—	17	921.6	4.0 ~ 6.0	Internal	9-Pin DSUB, Accessories Included	809-1027-ND	279.00	—	—	CB-WSPA311GI-01
—	20	921.6	8.0 ~ 30.0	Whip	RS232/422/485, IP-65 Case	809-1024-ND	350.61	332.48	321.60	CB-RWSPA311GS-03
—	20	921.6	8.0 ~ 30.0	Whip	RS232/422/485, IP-65, Accessories Included	809-1023-ND	383.63	—	—	CB-RWSPA311GS-01
—	20	921.6	9 .0 ~ 30.0	Internal	Ethernet 10/100BASE-T, Accessories Included	809-1030-ND	361.13	—	—	CB-RWEPAGI-02-A

Development Tools and Accessories

Description	Digi-Key Part No.	Price Each	connectBlue Part No.
Bluetooth I/O Kit, with OEMSPA311I-04 Modules, 2-I/O Development Boards	809-1003-ND	503.75	CB-BTIODK311I-01
Bluetooth Starter Kit for OEMSPA311I, USB Board	809-1005-ND	147.25	CB-OEMSPA311I-00
Bluetooth Starter Kit for OEMSPA311I, RS232 Board	809-1006-ND	147.25	CB-OEMSPA311I-01
WLAN Starter Kit for OWSPA311GI, USB Board	809-1017-ND	162.00	CB-OWSPA311GI-00
WLAN Starter Kit for OWSPA311GI, RS232 Board	809-1018-ND	162.00	CB-OWSPA311GI-01
Antenna 1/2 Wave, 2.4GHz, 10cm Cable with U.FL	809-1000-ND	25.60	CB-ACC-27
Antenna 1/2 Wave, 2.4GHz, 10cm Cable with RP-SMA	809-1001-ND	34.00	CB-ACC-36
12cm Cable, U.FL Connector to RP-SMA Connector for Antennas	809-1002-ND	34.00	CB-ACC-38

Dim. in mm

Fig. 1

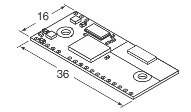

Fig. 2

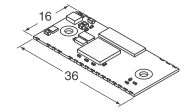

Fig. 3

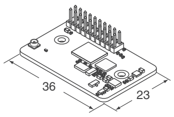

Fig. 4

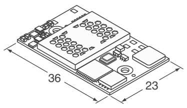

CREE®

High Wattage SiC RF Power MESFETs

Cree is a leading supplier of silicon carbide (SiC) and gallium nitride (GaN) wafers and devices for wireless communications. **Typical Applications Include:** • 2-Way, Private Radios • Broadband Amplifiers • Cellular Infrastructure • Test Instrumentation • Class A, AB, Linear Amplifiers Suitable with OFDM, W-CDMA, Edge, CDMA Wave Forms.

Cree wireless devices are especially well-suited for high-power communications because of the material used, silicon carbide (SiC). SiC has several intrinsic advantages that enable broadband amplifiers for UHF, "L" Band and "S" Band applications. **These Properties Include:** • High thermal conductivity • High breakdown electric field • High saturated electron drift velocity • High power density (power per unit gate periphery).

These features make SiC MESFET an attractive power FET for multi-octave to decade bandwidth power amplifiers.

Style	Current (A)	Frequency (GHz)	Output Power (Minimum) (W)	Gain (Typical) (dB)	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	10	50	Cree Part No.
Flanged	2.0	to 6.0	3	17.0	28	CMPA0060002F-ND◆ ***NEW!***	348.77	—	—	CMPA0060002F
Flanged	1.5	to 2.7	10	15.0	48	CRF24010FE-ND◆	150.00	145.50	138.23	CRF24010FE
Pill	1.8	to 2.7	10	15.0	48	CRF24010PE-ND◆	150.00	145.50	138.23	CRF24010PE
Flanged	1.3	to 2.7	60	13.0	48	CRF24060FE-ND◆	623.70	549.99	522.49	CRF24060FE
Flanged	3.0	to 6.0	10	14.5	28	CGH40010F-ND◆	127.39	—	—	CGH40010F
Flanged	3.0	to 6.0	25	13.0	28	CGH40025F-ND◆	206.65	—	—	CGH40025F
Flanged	3.0	to 4.0	35	14.0	28	CGH40035F-ND◆	253.51	—	—	CGH40035F
Flanged	3.0	to 4.0	45	14.0	28	CGH40045F-ND◆	301.30	—	—	CGH40045F
Flanged	3.0	to 4.0	90 Typical	12.5	28	CGH40090PP-ND◆	557.40	—	—	CGH40090PP
Flanged	2.0	to 4.0	120 Typical	19.0	28	CGH40120F-ND◆	578.45	—	—	CGH40120F
Flanged	1.0	to 4.0	220 Typical	19.0	28	CGH40180PP-ND◆ ***NEW!***	896.60	—	—	CGH40180PP
Pill	1.0	to 6.0	8	12	84	CGH40006P-ND◆ ***NEW!***	77.98	—	—	CGH40006P
Flanged	1.0	to 6.0	25	24	28	CMPA2560025F-ND◆ ***NEW!***	651.69	—	—	CMPA2560025F
Flanged	1.0	to 6.0	25	19	50	CMPA0060025F-ND◆ ***NEW!***	651.69	—	—	CMPA0060025F
Demonstration Test Fixture for CRF24010						CRF24010-TB-ND◆	550.00	—	—	CRF24010-TB
Demonstration Test Fixture for CRF24060						CRF24060-TB-ND◆	550.00	—	—	CRF24060-TB
Demonstration Amplifier Circuit for CGH40010						CGH40010F-TB-ND◆	550.00	—	—	CGH40010F-TB
Demonstration Amplifier Circuit for CGH40025						CGH40025F-TB-ND◆	550.00	—	—	CGH40025F-TB
Demonstration Amplifier Circuit for CGH40035						CGH40035F-TB-ND◆	550.00	—	—	CGH40035F-TB
Demonstration Amplifier Circuit for CGH40045						CGH40045F-TB-ND◆	550.00	—	—	CGH40045F-TB
Demonstration Amplifier Circuit for CGH40090						CGH40090PP-TB-ND◆	550.00	—	—	CGH40090PP-TB
Demonstration Amplifier Circuit for CGH40120F						CGH40120F-TB-ND	550.00	—	—	CGH40120F-TB
Demonstration Amplifier Circuit for CGH40180						CGH40180PP-TB-ND◆ ***NEW!***	550.00	—	—	CGH40180PP-TB
Demonstration Amplifier Circuit for CMPA0060002						CMPA0060002F-TB-ND◆ ***NEW!***	995.00	—	—	CMPA0060002F-TB
Demonstration Amplifier Circuit for CGH40006P						CGH40006P-TB-ND ***NEW!***	550.00	—	—	CGH40006P-TB
Demonstration Amplifier Circuit for CMPA2560025F						CMPA2560025F-TB-ND ***NEW!***	995.00	—	—	CMPA2560025F-TB
Demonstration Amplifier Circuit for CMPA0060025F						CMPA0060025F-TB-ND ***NEW!***	995.00	—	—	CMPA0060025F-TB

◆ ***RoHS Compliant***

Wireless Products

Bluetooth® ICs

The BlueCore™ line of Bluetooth products from CSR integrate a microcontroller along with peripherals to match your application requirements. Variants are available with integrated ROM or flash, Multimedia versions with integrated DSP and stereo Codec, or Plug-n-Go™ with integrated balun, filter and matching. **BlueCore3:** CSR's complete v1.2 Bluetooth solution including eSCO (extended Synchronous Connections), which allows for retransmissions of dropped packets, allowing for a clearer, better sound out of your Bluetooth device. **BlueCore4:** CSR's EDR (Enhanced Data Rate) v2.0 Bluetooth solution, offers backwards compatibility with v1.1 and v1.2 Bluetooth devices. External Flash, ROM, Plug-n-Go and Headset versions are available to match your application. Offers up to 3 times the data rate as previous versions of Bluetooth with lower power consumption. **BlueCore5:** Series offers the latest generation technology, offering compatibility with the latest Bluetooth specification, v2.1. **BlueCore6:** Series provides the AuriStream audio interface, which provides significant power saving over previous CVSD (Continuous Variable Slope Delta).

Integration Type	Flash (Mbits)	ROM (Mbits)	On-Chip Codec	Features/Operating Voltage	Package	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 2,000	CSR Part No.
							1	10	50		
BlueCore3											
ROM	—	4	No/PCM Interface	Dual UART Ports, Self Test/1.8V	42-CSP	BC313141A18-IXF-E4CT-ND	4.64	4.48	4.00	2070.00/M	BC313141A18-IXF-E4
	—	4	No/PCM Interface	USB, Self Test/1.8V, DSP Co-Processor,	84-VFBGA	BC313143A18-IRK-E4CT-ND	5.28	5.10	4.55	2370.01/M	BC313143A18-IRK-E4
Multimedia, External Flash	—	—	16-Bit Stereo Audio	Dual UART, Scatternet/1.8V	120-VFBGA	BC352239A-IVQ-E4CT-ND	11.14	10.76	9.60	—	BC352239A-IVQ-E4
Multimedia, Plug-n-Go	8	—	16-Bit Stereo Audio	DSP Co-Processor, Dual UART, Scatternet, Regulator/1.8V	96-LFBGA	BC358239A-INN-E4CT-ND	20.71	20.00	17.85	12495.00/M	BC358239A-INN-E4
Audio Flash	6	—	15-Bit Linear Audio	UART, Scatternet, On-Chip Regulator and Battery Charger/1.8V	96-TFBGA	BC31A223A-IVN-E4CT-ND	14.09	13.61	12.15	—	BC31A223A-IVN-E4
BlueCore4											
ROM	—	4	—	BT v2.1 + EDR, On-Chip Regulator, Wi-Fi Coexistance/1.8V	47-WLCSP	BC0401PC08-ICXB-RCT-ND	4.73	4.57	4.08	2860.00/M	BC0401PC08-ICXB-R
	—	4	No/PCM Interface	USB, UART, Scatternet, Regulator, Wi-Fi Coexistence/1.8V	47-CSP	BC41B143A06-IXB-E4CT-ND	4.49	4.34	3.87	2709.00/M	BC41B143A06-IXB-E4
	—	4	—	BT v2.1 + EDR, On-Chip Regulator, Wi-Fi Coexistance/1.8V	47-CSP	BC41B143A07-IXB-E4CT-ND ***NEW!***	4.49	4.34	3.87	2709.00/M	BC41B143A07-IXB-E4
	—	4	—	BT v2.1 + EDR, On-Chip Regulator, Wi-Fi Coexistance/1.8V	84-BGA	BC41B143A07-IRK-E4CT-ND ***NEW!***	5.01	4.84	4.32	3024.00/M	BC41B143A07-IRK-E4
ROM, Plug-n-Go	—	4	PCM Interface	Dual UART Ports/1.8V	96-LFBGA	BC41B143A06-ANN-E4CT-ND	11.14	10.76	9.60	6720.00/M	BC41B143A06-ANN-E4
	8	4	PCM Interface	USB and Dual UART Ports up to 3Mbits/1.8V	84-VFBGA	BC41B143A07-ANN-E4CT-ND	11.14	10.76	9.60	6720.00/M	BC41B143A07-ANN-E4
Headset	—	6	15-Bit Linear Audio	UART, Regulator, Battery Charger/1.8V	96-TFBGA	BC413159A06-IPK-E4CT-ND	10.61	10.25	9.15	—	BC413159A06-IPK-E4
	—	6	15-Bit Linear Audio	USB, UART, Regulator/1.8V	56-QFN	BC413159A11-IQA-E4CT-ND	4.35	4.20	3.75	2625.00/M	BC413159A11-IQA-E4
Audio ROM	6	—	15-Bit Linear Audio	UART, Regulator/1.8V	96-TFBGA	BC413159B10-IPK-E4CT-ND	6.44	6.22	5.55	—	BC413159B10-IPK-E4
Audio Flash	6	—	15-Bit Linear Audio	UART, LED Driver, Regulator, Battery Charger/1.8V	96-TFBGA	BC41C671A-IPK-E4CT-ND	9.54	9.21	8.22	5754.00/M	BC41C671A-IPK-E4
Multimedia, External Flash	8	—	13 ~ 16-Bit Linear Audio	Dual UART Ports, USB, Piconet, Scatternet, Regulator, Wi-Fi Coexistence/1.8V,	96-TFBGA	BC417143B-GIQN-E4CT-ND ***NEW!***	5.12	4.94	4.41	3087.00/M	BC417143B-GIQN-E4
	8	—	13 ~ 16-Bit Linear Audio	Dual UART Ports, USB, Piconet, Scatternet, Regulator, Wi-Fi Coexistence/1.8V	96-VFBGA	BC417143B-GIRN-E4CT-ND ***NEW!***	5.12	4.94	4.41	3087.00/M	BC417143B-GIRN-E4
External Flash	—	—	No/PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, Wi-Fi Coexistence/1.8V	96-VFBGA	BC417143B-IRN-E4CT-ND	5.25	5.07	4.53	2360.01/M	BC417143B-IRN-E4
Flash, Plug-n-Go	8	—	PCM Interface	Dual UART Ports/1.8V	96-LFBGA	BC419143B-ANN-E4CT-ND	19.14	18.48	16.50	11550.00/M	BC419143B-ANN-E4
BlueCore5											
Multimedia, External Flash	—	—	16-Bit Stereo Audio	USB, UART, Regulator, Battery Charger/1.5V	169-TFBGA	BC57E687B-ITB-E4CT-ND	12.01	11.60	10.35	—	BC57E687B-ITB-E4
	—	—	16-Bit Stereo Audio	USB, UART, Regulator, Battery Charger/1.5V	144-TFBGA	BC57E687C-ATB-E4CT-ND ***NEW!***	14.37	13.88	12.39	8673.00/M	BC57E687C-ATB-E4
	—	—	16-Bit Stereo Audio	USB, I2C, UART, Regulator, Battery Charger/1.5V	169-TFBGA	BC57E687C-GITB-E4CT-ND	11.24	10.86	9.69	6783.00/M	BC57E687C-GITB-E4
Multimedia Flash	8	—	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps and USB, I^2C	120-LFBGA	BC57H687C-ITM-E4CT-ND	15.66	15.12	13.50	9450.00/M	BC57H687C-GITM-E4
	16	—	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps and USB, I^2C	105-LFBGA	BC57G687C-INN-E4CT-ND	19.31	18.65	16.65	11655.00/M	BC57G687C-INN-E4
	16	—	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps and USB, I^2C	120-LFBGA	BC57G687C-GITM-E4CT-ND ***NEW!***	20.11	19.43	17.34	12138.00/M	BC57G687C-GITM-E4
Multimedia Flash, Plug-n-Go	16	—	—	BlueTooth v2.1+EDR, Class 2 & 3	105-LFBGA	BC57G687C-ANN-E4CT-ND ***NEW!***	23.87	23.05	20.58	14406.00/M	BC57G687C-ANN-E4
ROM HCI, FM	—	6	No/PCM Interface	FM Radio, v2.1+ EDR, Dual UART up to 4Mbps	84-VFBGA	BC51E130A14-IRK-E4CT-ND	6.61	6.39	5.70	2960.01/M	BC51E130A14-IRK-E4
	—	6	No/PCM Interface	FM Radio, v2.1+ EDR, Dual UART up to 4Mbps	67-WLCSP	BC51E129B14-IYH-E4CT-ND	5.92	5.72	5.10	2650.00/M	BC51E129B14-IYH-E4
Multimedia ROM	—	8	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps	68-QFN	BC57F687A04-IQF-E4CT-ND	9.40	9.08	8.10	5670.00/M	BC57F687A04-IQF-E4
	—	8	16-Bit Stereo Audio	A2DP1.2 and AVRCP1.0 enabled with SBC encoder, DSP/1.5V and 1.8V	68-QFN	BC57F687A05-IQF-E4CT-ND	9.95	9.61	8.58	6006.00/M	BC57F687A05-IQF-E4
	—	—	16-Bit Stereo Audio	UART, BT Radio, DSP, Battery Charger/ 1.8V	68-QFN	BC57K687A07-IQF-E4CT-ND ***NEW!***	8.46	8.17	7.29	5103.00/M	BC57K687A07-IQF-E4
BlueCore6											
Headset	—	—	15-Bit Mono	UART, Regulator, Battery Charger/ 1.8V	56-QFN	BC6110A14-IQQA-RCT-ND ***NEW!***	3.83	3.70	3.30	2310.00/M	BC6110A14-IQQA-R
	—	—	16-Bit Mono	UART, Regulator, Battery Charger/ 1.5V	48-QFN	BC6130A04-IQQB-RCT-ND ***NEW!***	4.70	4.54	4.05	2835.00/M	BC6130A04-IQQB-R
	—	—	16-Bit Mono	UART, Regulator, Battery Charger/ 1.5V	48-QFN	BC6140A02-IQQB-RCT-ND ***NEW!***	6.26	6.05	5.40	3780.00/M	BC6140A02-IQQB-R
ROM	—	6	AuriStream 16-Bit	v2.1 + EDR, Piconet, Scatternet, UART Port to 4Mbaud, Regulator/1.5V and 1.8V	40-QFN	BC63B239A04-IQD-E4CT-ND	4.87	4.71	4.20	2940.00/M	BC63B239A04-IQD-E4
	—	6	Intergrated CSR AuriStream	v2.1 + EDR, Piconet, Scatternet, UART to 4Mbaud, Regulator/1.5V and 1.8V	40-QFN	BC63B239A04-AQK-E4CT-ND ***NEW!***	6.68	6.46	5.76	4032.00/M	BC63B239A04-AQK-E4
	—	4	PCM Interface/ AuriStream 16-Bit	SDIO/CSPI/UART Interface up to 4Mbaud	51-WLCSP	BC63B239A04-IUE-E4CT-ND	4.35	4.20	3.75	2625.00/M	BC63B239A04-IUE-E4
						BC63B239A04-IYB-E4CT-ND	4.18	4.04	3.60	2520.00/M	BC63B239A04-IYB-E4
Audio ROM	—	6	AuriStream 16-Bit	Internal Regulator, Battery Charger, External Codec Support	48-QFN	BC63C159A03-IQB-E4CT-ND	5.81	5.62	5.01	3507.00/M	BC63C159A03-IQB-E4
					64-BGA	BC63C159A03-GIVA-E4CT-ND	6.33	6.12	5.46	3822.00/M	BC63C159A03-IVA-E4

† For Tape and Reel part number, change CT-ND to TR-ND.

Bluetooth® Application Development Kits and Reference Design Kits

CSR Bluetooth Development Kits and Reference Design Kits provide hardware to evaluate many different application possibilities and give you the opportunity to develop with different BlueCore™ devices. SYS Kits provide components with Bluetooth application profile(s) along with CD with PSKEY editing software.

Description	Digi-Key Part No.	Price Each
BlueTunes1 Development Kit for Wireless Stereo Audio, BlueCore3 Multimedia	BTN-001A-ND	500.00
BlueTunes1 Development Kit for Headset/Speaker	BTN-001B-ND◆	500.00
BlueTunes ROM Stereo Headset Solution Development Kit	BTN-003-1A-ND◆	500.00
BC5-MM Development Board only, BlueTunes2	DEV-SYS-1645B3-1A-ND◆	400.00
BlueVox Development Board,Wireless Audio (Mono)	BV-001-3A-ND◆	500.00
BlueVox Development Board Wireless Audio (Mono), for BlueVox QFN	BV-001-4A-ND◆	500.00
BlueVox DSP Development Kit	BV-003-1A-ND	500.00
USB Dongle Bluetooth EDR Reference Design, Nanosira, BlueCore4 External	DEV-SYS-1487-1B-ND◆	100.00
UART and SPI Level Shifter Interface Board for UniFi or BlueCore	DEV-SYS-1504-1A-ND	300.00
RoadRunner Plug-n-Talk Reference Design Hardware, vehicle plug in for hands-free evaluation	DEV-RR-001-1A-ND	1000.00
RoadRunner Plug-n-Talk Software Development Kit	DEV-RR-SDK-01A-ND	1000.00
BlueVox DSP Example Design Board	DEV-PC-0119-1C-ND◆	100.00
BlueVox2 Example Design Board	DEV-PC-0123-1C-ND◆	93.75
UART and SPI Interface Board for BlueCore, Board Only	DEV-PC-1309C-ND◆	93.75
BlueVox DSP Development Board	DEV-PC-1833-4A-ND◆	200.00
BlueVox2 Development Board	DEV-PC-1888-3A-ND◆	187.50
UART and SPI Interface Board with Cables for BlueCore	DEV-SYS-1309-1C-ND◆	93.75
BluePlayer MP3 Development Kit	DEV-MP3-1A-ND◆	1250.00
RadioPro Development Kit, Wireless Internet Radio	DEV-SYS-RADIOPRO-1A-ND◆	2995.00
USB to SPI Interface Converter	DEV-SYS-1808-1A-ND◆	211.25
Reference Design Kit, BC4-ROM A07 Module	DEV-SYS-1519-1B-ND◆	250.00

Description	Digi-Key Part No.	Price Each
BC5-FM Development Kit	DEV-SYS-0101-1B-ND◆	250.00
BC6-ROM Development Kit	DEV-SYS-0114-1A-ND◆	250.00
BC6-ROM QFN Development Kit	DEV-SYS-0115-1A-ND◆	250.00
BC5-MM Dual Microphone Headset Development Kit	DEV-SYS-MONOHS-1A///-ND◆	500.00
TrueTest Development Kit	DEV-SYS-1455-2A-ND◆	1200.00
BC6110 Bluetooth Headset Development Kit	DK-BC-6110-1A-ND◆ ***NEW!***	500.00
BC6130 Bluetooth Headset Development Kit	DK-BC-6130-1A-ND◆ ***NEW!***	500.00
BC6150 Bluetooth Headset Development Kit	DK-BC-6150-1A-ND◆ ***NEW!***	500.00

◆ ***RoHS Compliant***

Bluetooth® Development Tools Casira™

The Casira Development Kit allows for the development and testing of your Bluetooth design. This kit includes: 2 Casira development pods (each pod includes a BlueCore™ based module), power supplies and cords, programming and RS232 cables, 2 headsets and a CD containing documentation and BlueSuite Software. BlueSuite includes drivers to communicate with the BlueCore devices at the HCI and RFCOMM layers and programs such as BlueChat for establishing a data or voice link and BlueTest, which can be used to put the BlueCore device into test modes for radio development and qualification. BlueSuite also provides a Flash ROM loader and Device Firmware upgrade Wizard.

Description	Digi-Key Part No.	Price Each
Bluetooth Development Kit	BCES01-ND	3000.00
Casira End Point (Development Pod)	BCES01-EP-ND◆	700.00
Antenna for Casira Module	ANT001-ND	18.26
Connector Kit (as fitted to Casira Motherboard)	CK001-ND	24.60
Parallel-RJ45+ Cable (XSPI + SPI Cable)	CK003-ND◆	26.25
Module (2) for Casira Development Kit	STK-417143B-1B-ND◆	250.00

◆ ***RoHS Compliant***

WirelessUSB™

These solutions are designed for short-range, multipoint-to-point connectivity. WirelessUSB enables PC Human Interface Device (HID) peripherals, such as wireless mice, keyboards, media-center remote controls and presenter tools, wire replacement with a low-power and highly reliable, 2.4GHz wireless solution. Cypress' patented WirelessUSB technology offers unparalleled feature set to enable superior RF performance, interference immunity, and maximum battery life.

Function	Range (meters)	Throughput (Kbps)	Package	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
DSSS Radio SoC	10	62.5	48-VQFN	0 ~ 70	428-1624-ND	6.70	5.50	4.97	CYWUSB6934-48LFXC
DSSS Radio SoC	10	62.5	48-VQFN	0 ~ 70	428-2984-ND ***NEW!***	7.75	6.36	5.74	CYWUSB6934-48LTXC
DSSS Radio SoC	50	62.5	48-VQFN	0 ~ 70	428-1625-ND	11.00	9.02	8.14	CYWUSB6935-48LFXC
DSSS Radio SoC	50	62.5	48-VQFN	-40 ~ 85	428-2985-ND ***NEW!***	11.38	9.33	8.42	CYWUSB6935-48LTXI
PRoC MCU + Radio	50	62.5	48-VQFN	0 ~ 70	428-1771-ND	10.00	8.20	7.40	CYWUSB6953-48LFXC
DSSS/GFSK Radio SoC	10	250kbps/1Mbps	40-VQFN	0 ~ 70	428-2962-ND ***NEW!***	4.76	3.83	3.49	CYRF6936-40LTXC

WirelessUSB™ PRoC™ Development Kit

The PRoC (Programmable-Radio-on-a-Chip™) Development Kit (CY3653) includes flexible development boards, PRoC modules, LCD modules, schematics, bills-of-materials, source code, and documentation for designers looking for a seamless transition from wired to wireless solutions. Customers can use the kit to achieve faster time to market for single-chip applications like small form-factor wireless keyboards and mice, presenter tools, wireless thermostats including LCD displays, precision remote controls for RC toys and more. PRoC combines Cypress's WirelessUSB™ 2.4-GHz radio-on-a-chip and PSoC® Programmable System-on-Chip™ mixed signal array in an integrated product. It integrates Cypress's Direct Sequence Spread Spectrum (DSSS) interference immunity technology with the power and flexibility of the PSoC architecture, offering a complete wireless solution in a single chip.

Kit Includes: • PSoC Evaluation Board • PRoC Modules for a fast plug-and-play solution • PRoC Programmer • LCD Module and a CD-ROM with kit documentation • Hardware schematics • Tutorial and firmware for application development

428-1772-ND (CY3653) Development Kit for PRoC.................. **$1150.90**

WirelessUSB™ Radio Modules

The CYWM6934/CYWM6935 WirelessUSB Radio Modules offer a complete radio module solution for integration into existing or new 2.4GHz products. These modules are tested for compliance and are FCC/ETSI(EU)/Industry pre-certified. Modules are supplied with integrated PCB trace antennas. Available in small PCB design which allows the modules to be mounted horizontally to the device PCB, by way of, a 12-pin header.

CYWM6934 Features: • Range of up to 10 meters • Data Throughput up to 65 kbits/sec • Operating Voltage: 2.7 ~ 3.6V • Small PCB Design: .975" (24.38mm) x .65" (16.25mm) x .212" (5.3mm) (L x W x H) • FCC Approved

CYWM6935 Features: • Range of up to 50 meters • Data Throughput up to 65 kbits/sec • Operating Voltage: 2.7 ~ 3.6V • Small PCB Design: .95" (23.75mm) x .95" (23.75mm) x .212" (5.3mm) (L x W x H) • FCC Approved

428-1945-ND (CYWM6934) LS™ Module........................... **$13.64**
428-1946-ND (CYWM6935) LR™ Module........................... **$14.30**

CyFi™ Starter Kit

CY3271

This intuitive starter kit allows you to evaluate the PSoC programmable system-on-chip and CyFi low-power RF in CapSense™ touch-sensing, proximity-sensing, temperature-sensing and light-sensing applications.

Kit Includes:

- PC dongle with RF
- RF expansion card with power amplification for long-range applications
- Multifunction expansion card
- Two battery packs (2xAAA and CR2032)
- PSoC Designer IDE and Cypress's sense and control dashboard software

428-2272-ND (CY3271)
PSoC FirstTouch™ Kit with CyFi...................................... **$144.64**

DELORME GPS Module and Kit

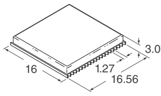

The GPS2058-10 module is a high sensitivity, low power, SMD type 16-channel GPS receiver designed for a broad spectrum of OEM applications. Based on the fast and deep GPS signal search capabilities of the STMicroelectronics (Teseo), it features an integrated RF block combined with the high performance CPU of ARM7TDMI microprocessor. The end result provides excellent navigation performance in the most challenging urban environments. The GPS2058-10 offers RTCA-SC159/WAAS/EGNOS support and provides excellent sensitivity and high configurability in a small package.

Description	Frequency (MHz)	Hot/Warm/Cold Start (Seconds)	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing
16-Channel L1 GPS Receiver Module	1575.42	2.5 / 34 / 39	40-Pin SMD	GM-205810-000CT-ND§	41.65	32.04	29.91	GM-205810-000TR-ND	13350.00/500
Development Kit / Navigation System with Street Atlas Software, Antenna and Cables				GM-2058EV-101-ND	495.00	—	—	—	—

§ Cut Tape

Digi ***NEW!*** ConnectCore™

The network-enabled ConnectCore for i.MX51 family offers a highly integrated and future-proof System-on-Module (SOM) solution based on the new Freescale® i.MX51 application processor, which offers a high-performance ARM® Cortex™-A8 core, powerful multimedia options, and a complete set of on-chip peripherals and interfaces.

Features: • High-end, low-power 32-bit System-on-Modules • Integrated 10/100 Mbit Ethernet networking • Pre-certified 802.11a/b/g/n wireless LAN interface • On-chip hardware encryption engine • Hardware accelerated high-definition multimedia • Power Management IC and Accelerometer integrated • ZigBee®, cellular and satellite connectivity options • Windows Embedded CE 6.0 and Linux support

Description	Digi-Key Part No.	Price Each	Digi International Part No.
ConnectCore Wi-MX51 Module	602-2321-ND	335.84	CC-WMX-LB6A-EA
Digi® Embedded Linux® Kit	602-2319-ND	795.00	CC-WMX51-LX-EA
Digi JumpStart Kit® for Windows Embedded CE 6.0	602-2320-ND	795.00	CC-WMX51-CE6-EA

NEW! Digi m10™ Compact Satellite Modem

The Digi m10 satellite module provides worldwide satellite data connectivity for a wide variety of asset-tracking and industrial remote communication applications. Operating on the ORBCOMM low-earth orbit (LEO) satellite network, it is designed to enable cost-efficient Machine-to-Machine (M2M) communication with virtually unlimited global coverage and no blockage. All at a typical low monthly cost comparable to cellular plans for low data volume M2M applications. Built on Digi's own patented mixed signal chip designed and tailored for satellite applications, the Digi m10 modem offers immediate product design integration through its integrated serial interface. With full support for industrial temperature and operational shock/vibration specifications exceeding SAE J1455, it is the ideal choice for reliable and highly cost-efficient satellite connectivity in even the most demanding application. **Features:** • Global LEO satellite coverage (no blockage) • Extremely compact module form factor • Simple serial interface for host communication • Very low transmit and receive power • Industrial operating temperature

Description	Digi-Key Part No.	Price Each	Digi International Part No.
m10 Compact Satellite Modem Module	602-1165-ND	179.00	DG-M10
m10 Satellite Modem Evaluation Kit	602-1166-ND	299.00	DG-M10-KIT

XPress™ Ethernet Bridge

With a range of up to 15 miles (line-of-sight with a high gain antenna) and the ability to transmit through as many as 10 standard walls, the XPress Ethernet Bridge is an easy-to-use wireless Ethernet bridge that uses the added range and capabilities of the 900MHz band to communicate where Wi-Fi and other wireless data products fall short.

XEB09-C Kit Includes: • (2) RF Modems • (2) 9VDC Power adapters • (2) 1/2 Wave antennas with RPTNC connector
XEB09-I Kit Includes: • (2) RF Modems • (2) 9VDC Power adapters • (2) PoE Injectors • (2) 30' CAT5e Outdoor Cables
XEB09-BCSA Kit Includes: • (1) XEB Multipoint RF Modem • (1) Quick start guide/Manual • (1) 6VDC/110VAC power adapter • (1) 2dBi omni-directional antenna Note: Does not include Ethernet cable
XEB09-BCS Kit Includes: • (1) XEB Multipoint RF Modem
XEB09-BISA Kit Includes: • (1) XEB Multipoint RF Modem in NEMA-4 weatherproof enclosure • (1) Quick start guide/Manual • (1) 12VDC/110VAC power adapter • (1) 2dBi omni-directional antenna (high-gain antenna sold separately) • (1) PoE injector Note: Does not include Ethernet cable
XEB09-BIS Kit Includes: • (1) XEB Multipoint RF Modem in NEMA-4 weatherproof enclosure
XEB09-CIPA Kit Includes: • (2) XEB RF Modem • (2) 2.1 dBi Weatherproof Dipole Antenna • (2) 12VDC Power Supply • (2) PoE Injector Note: Does not include Ethernet cable.
XEB09-CISA Kit Includes: • (1) XEB RF Modem • (1) 2.1 dBi Weatherproof Dipole Antenna • (1) 12VDC Power Supply • (1) PoE Injector Note: Does not include Ethernet cable.

Frequency	Power Output	RF Data Rate (Baud)	Connection Type	Use	Digi-Key Part No.	Price Each	Digi International Part No.
900MHz	125mW	1.5Mbps	Ethernet	Commercial	XEB09-C-ND	699.00	XEB09-C
900MHz	125mW	1.5Mbps	Ethernet	Industrial	XEB09-I-ND	999.00	XEB09-I
900MHz	125mW	1.5Mbps	Ethernet	Commercial	602-1089-ND‡	499.00	XEB09-BCSA
900MHz	125mW	1.5Mbps	Ethernet	Commercial	602-1090-ND‡	479.00	XEB09-BCS
900MHz	125mW	1.5Mbps	Ethernet	Industrial	602-1091-ND‡	659.00	XEB09-BISA
900MHz	125mW	1.5Mbps	Ethernet	Industrial	602-1092-ND‡	629.00	XEB09-BIS
900MHz	125mW	1.5Mbps	Ethernet	Industrial	602-1177-ND‡◆ ***NEW!***	935.63	XEB09-CIPA
900MHz	125mW	1.5Mbps	Ethernet	Industrial	602-1178-ND‡◆ ***NEW!***	467.81	XEB09-CISA

‡ Multipoint ◆ ***RoHS Compliant***

Wireless Accessories

Description	Connection Type	Digi-Key Part No.	Price Each	Digi International Part No.
Interface Board for XStream and XCite	RS-232/485	XIB-R-ND◆	50.00	XIB-R
Interface Board for XStream and XCite	USB	XIB-U-ND◆	50.00	XIB-U
1 Watt Interface Board for XTend	RS-232/485	XTIB-R-ND	80.00	XTIB-R
1 Watt Interface Board for XTend	USB	XTIB-U-ND	80.00	XTIB-U
9V Battery Adapter for RS-232 Board	—	JP2P3-C2C-4I-ND◆	5.00	JP2P3-C2C-4I
1' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-1F-ND◆	30.89	JR2N1-CL1-1F
4' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-4F-ND◆	33.56	JR2N1-CL1-4F
6' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-6F-ND◆	35.34	JR2N1-CL1-6F
10' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-10F-ND◆	38.90	JR2N1-CL1-10F
20' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-20F-ND◆	47.80	JR2N1-CL1-20F
RF Cable Assembly Adapter for connecting RPSMA antenna to U.FL connector	RPSMA	JF1R6-CR3-4I-ND◆	4.50	JF1R6-CR3-4I
Cable 10' RPTNC Male to N-Male	—	JT2N1-CL1-10F-ND◆	39.90	JT2N1-CL1-10F

◆ ***RoHS Compliant***

Antennas

Type	Gain (dBi)	Frequency (MHz)	Impedance (Ω)	Connector	Digi-Key Part No.	Price Each	Digi International Part No.
Omni	2.1	902-928	50	N-Type Female	A09-F2NF-M-ND	123.00	A09-F2NF-M
	5.1	902-928	50	N-Type Female	A09-F5NF-M-ND	174.00	A09-F5NF-M
	8.1	902-928	50	N-Type Female	A09-F8NF-M-ND	217.00	A09-F8NF-M
Yagi	8.1	896-980	—	8" Pigtail with N-Type Female	A09-Y8NF-ND	60.00	A09-Y8NF
	11.1	895-940	—		A09-Y11NF-ND	70.00	A09-Y11NF
Omni	2.1	900	50	RPSMA	A09-HASM-675-ND	20.00	A09-HASM-675
	3.0	900	50	RPSMA	A09-HSM-7-ND	20.00	A09-HSM-7
Omni	2.1	2.4GHz	50	RPSMA	A24-HASM-450-ND	5.00	A24-HASM-450
	2.1	2.4GHz	50	RPSMA	A24-HASM-525-ND	20.00	A24-HASM-525

Stand-Alone Radio Modems

Digi International stand-alone radio modems were designed to provide end users with an easy-to-install wireless serial communication link.

Features:
• Plug and communicate (no configuration required) • Transparent operation supports existing software and systems • Retries and acknowledgements for guaranteed packet delivery • RS-232/422/485, Ethernet, USB protocol and multi-drop bus support • Low power modes for current consumption as low as 1mA • Support for multiple data formats (7/8 bits, Even/Odd/No Parity) • Selectable power outputs

Includes:
• Stand-Alone Radio Modem • CD (software and documentation) • 1/2 wave antenna • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • Power adapter • 9V battery adapter • RS-232 cable (6')

XStream™
PKG RS-232 Shown

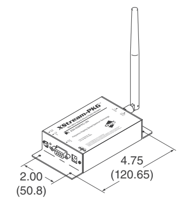

Dimension in Inches (mm)

Fre-quency	Power Output	RF Data Rate (Baud)	Connection Type	Digi-Key Part No.	Price Each	Digi International Part No.
900MHz	1Watt	115K	RS-232	XT09-PKI-RA-ND	299.00	XT09-PKI-RA
900MHz	1Watt	115K	USB	XT09-PKC-UA-ND◆	299.00	XT09-PKC-UA
900MHz	100mW	9600	RS-232	X09-009PKC-RA-ND◆	250.00	X09-009PKC-RA
900MHz	100mW	19.2K	RS-232	X09-019PKC-RA-ND◆	250.00	X09-019PKC-RA
2.4GHz	50mW	9600	RS-232	X24-009PKC-RA-ND◆	199.00	X24-009PKC-RA
2.4GHz	50mW	19.2K	RS-232	X24-019PKC-RA-ND	199.00	X24-019PKC-RA
2.4GHz	50mW	9600	USB	X24-009PKC-UA-ND	199.00	X24-009PKC-UA
900MHz	100mW	9600	Ethernet	X09-009PKC-EA-ND◆	350.00	X09-009PKC-EA
900MHz	100mW	19.2K	Ethernet	X09-019PKC-EA-ND	350.00	X09-019PKC-EA
900MHz	4mW	38.4K	RS-232	XC09-038PKC-RA-ND	106.43	XC09-038PKC-RA

◆ ***RoHS Compliant***

Wireless Development Kits

Development Kit Features: • Plug-and-communicate (default mode- no configuration required) • True peer to peer network (no need to configure a "Master" radio) • Transparent mode supports existing software applications and legacy systems • Addressing capabilities provide for point-to-point and point-to-multipoint networks • Uses standard AT commands and/or fast binary commands for changing parameters • Native RS485/422 (multi-drop-bus) protocol support • Retries and acknowledgements of packets • Provides guaranteed delivery of critical packets in difficult environments • Multiple low power modes including shutdown pin, cyclic sleep and serial port sleep • Signal strength register for link quality monitoring and debugging

XStream™ Development Kits Include: • XStream wireless module with an integrated wire antenna • XStream wireless module with 1/2 Wave dipole antenna • (2) RS-232/422/485 interface boards • CD (X-CTU™ software and documentation) • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • (2) Power adapters • 9V battery adapter • (2) RS-232 cables (6')

XCite™ Development Kits Include: • XCite wireless module with an integrated wire antenna • XCite wireless module with 1/2 wave dipole antenna • (2) RS-232 PC serial interface boards • (2) DSub-9 serial cables • (2) 9V 400mA power supplies • 9V battery clip adapter • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • X-CTU test/configuration utility software (EXE file)

XTend™ Development Kit Include: • (2) XTend OEM RF modules with 1/2 wave dipole antennas • (2) RS-232 PC serial interface boards • (2) DSub-9 serial cables • (2) 9V 400mA power supplies • 9V battery clip adapter • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • X-CTU test/configuration utility software

Frequency	Power Output	RF Data Rate (Baud)	Digi-Key Part No.	Price Each	Digi International Part No.
XStream Development Kits					
900MHz	100mW	9600	X09-009-DK-ND	409.00	X09-009-DK
900MHz	100mW	19.2K	X09-019-DK-ND	409.00	X09-019-DK
2.4GHz	50mW	9600	X24-009-DK-ND◆	409.00	X24-009-DK
2.4GHz	50mW	19.2K	X24-019-DK-ND◆	409.00	X24-019-DK
XCite Development Kits					
900MHz	5mW	9600	XC09-009-DK-ND◆	152.73	XC09-009-DK
900MHz	5mW	38.4K	XC09-038-DK-ND	152.73	XC09-038-DK
XTend Development Kit					
900MHz	1 Watt	115K	XT09-DK-ND	499.00	XT09-DK

◆ ***RoHS Compliant***

Wireless OEM Modules

XStream™, XCite™ and XTend™ Wireless OEM Modules were designed to provide product designers with a transparent and easy to design-in wireless serial communication link.

Features: • Plug-and-communicate (no configuration required) • Transparent operation supports existing software and systems • 5V CMOS level serial interface (configurable interface baud rate) • XON/XOFF or hardware flow control • Support for multiple data formats (7/8/9 bits, Even/Odd/No Parity) • Low power modes down to 10μA

XStream: Range: Up to 1500 feet indoor/urban • Up to 7 miles line-of-sight with dipole • Up to 20 miles line-of-sight with high gain • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) • -110dBm receiver sensitivity **Power:** 5VDC supply voltage

XCite: Range: 300 feet indoor/urban • 1000 feet line-of-sight with dipole • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • -108dBm receiver sensitivity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) **Power:** 2.85VDC to 5.50VDC

XTend: Range: Up to 3,000 feet indoor/Urban • Up to 14 miles line-of-sight with dipole • Up to 40 miles line-of-sight with high gain • Allows up to 10 FHSS (frequency hopping spread spectrum pairs to operate in close proximity) • -110dBm receiver sensitivity • Board size 1.456: (36.98mm) x 2.402" (61mm) **Power:** 2.8 to 5.5VDC

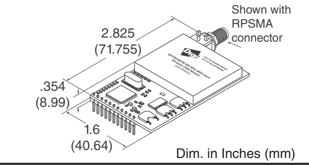

Dim. in Inches (mm)

Frequency	Power Output	RF Data Rate (Baud)	Connector/ Antenna Type	Digi-Key Part No.	Price Each	Digi International Part No.
XStream Modules						
900MHz	100mW	9600	RPSMA	X09-009NSC-ND◆	150.00	X09-009NSC
900MHz	100mW	19.2K	RPSMA	X09-019NSC-ND◆	150.00	X09-019NSC
900MHz	100mW	9600	3" Wire	X09-009WNC-ND◆	138.00	X09-009WNC
2.4GHz	50mW	9600	RPSMA	X24-009NSC-ND◆	107.66	X24-009NSC
2.4GHz	50mW	19.2K	RPSMA	X24-019NSC-ND	107.66	X24-019NSC
2.4GHz	50mW	9600	3" Wire	X24-009WNC-ND	103.31	X24-009WNC
2.4GHz	50mW	19.2K	3" Wire	X24-019WNC-ND◆	103.31	X24-019WNC
XCite Modules — RoHS Compliant						
900MHz	5mW	9600	3" Wire	XC09-009WNC-ND	40.38	XC09-009WNC
900MHz	5mW	38.4K	3" Wire	XC09-038WNC-ND	40.38	XC09-038WNC
900MHz	5mW	9600	RPSMA	XC09-009NSC-ND	42.50	XC09-009NSC
900MHz	5mW	38.4K	RPSMA	XC09-038NSC-ND	42.50	XC09-038NSC
XTend Modules						
900MHz	1 Watt	115K	RPSMA	XT09-SI-ND	179.00	XT09-SI
900MHz	1 Watt	115K	RPSMA	602-1183-ND◆ ***NEW!***	179.00	XT09-SI-MESH
900MHz	1 Watt	115K	MMCX	XT09-MI-ND	179.00	XT09-MI

◆ ***RoHS Compliant***

XBee®, XBee-PRO®, ZigBee® and ZigBee-PRO® Wireless Modules

XBee and XBee-PRO Wireless Modules were designed to provide all the benefits of low-power advanced networking in a low-cost solution that dramatically reduces time-to-market. In addition, the small form factor saves valuable board space. The XBee ZNet 2.5 (formally known as Series 2) is based on ZigBee/802.15.4 silicon from Ember™. It features ZigBee firmware for creating ad-hoc mesh networks. **Features:** • Plug and communicate (No configuration required) • Retries and acknowledgements for guaranteed packet delivery • Uses standard AT commands for changing parameters • Low power modes down to 10μA **Development Kits Include:** • (2) XBee-PRO Modules with wire and U.FL • (3) XBee Modules with each antenna option • RPSMA 1/2 wave antenna • Cables • Connectors • XCTU Software • 9V clip and adaptor • (2) XBee ZNet 2.5 OEM RF Modules • (5) Development Boards

Frequency	Power Output	RF Data Rate (Baud)	Connection / Antenna Type	Digi-Key Part No.	Price Each	Digi International Part No.
XBee Modules — RoHS Compliant						
2.4GHz	1mW	250K	Chip Antenna	XB24-ACI-001-ND	19.00	XB24-ACI-001
	1mW	250K	U.FL Connector	XB24-AUI-001-ND	19.00	XB24-AUI-001
	1mW	250K	Whip Antenna	XB24-AWI-001-ND	19.00	XB24-AWI-001
XBee-PRO Modules — RoHS Compliant						
900MHz	50mW	156.25K	Wire Antenna	602-1167-ND ***NEW!***	39.00	XBP09-DPWIT-156
	50mW	156.25K	U.FL Connector	602-1168-ND ***NEW!***	39.00	XBP09-DPUIT-156
	50mW	156.25K	RPSMA	602-1169-ND ***NEW!***	42.00	XBP09-DPSIT-156
2.4GHz	100mW	250K	Chip Antenna	XBP24-ACI-001-ND	32.00	XBP24-ACI-001
	100mW	250K	U.FL Connector	XBP24-AUI-001-ND	32.00	XBP24-AUI-001
	100mW	250K	Whip Antenna	XBP24-AWI-001-ND	32.00	XBP24-AWI-001
XBee ZNet 2.5 Modules — RoHS Compliant						
2.4GHz	2mW	250K	Chip Antenna	XB24-BCIT-004-ND	21.00	XB24-BCIT-004
	2mW	250K	RPSMA	XB24-BSIT-004-ND	23.00	XB24-BSIT-004
	2mW	250K	U.FL Connector	XB24-BUIT-004-ND	21.00	XB24-BUIT-004
	2mW	250K	Wire Antenna	XB24-BWIT-004-ND	21.00	XB24-BWIT-004
XBee-PRO ZNet 2.5 Modules — RoHS Compliant						
2.4GHz	100mW	250K	Chip Antenna	XBP24-BCIT-004-ND	34.00	XBP24-BCIT-004
	100mW	250K	RPSMA	XBP24-BSIT-004-ND	36.00	XBP24-BSIT-004
	100mW	250K	U.FL Connector	XBP24-BUIT-004-ND	34.00	XBP24-BUIT-004
	100mW	250K	Wire Antenna	XBP24-BWIT-004-ND	34.00	XBP24-BWIT-004
XBee and XBee-PRO Interface Boards — RoHS Compliant						
—	—	—	RS-232	XBIB-R-ND	60.00	XBIB-R
	—	—	USB	XBIB-U-ND	60.00	XBIB-U

◆ ***RoHS Compliant***

Dimensions in mm

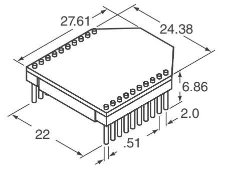

XBee/XBee ZNet 2.5/
XBee-PRO Znet 2.5/ZigBee Module

(Continued)

XBee®, XBee-PRO®, ZigBee® and ZigBee-PRO® Wireless Modules *(Cont.)*

Dimensions in mm

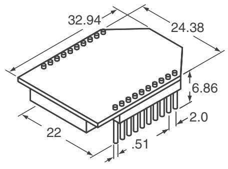

XBee-PRO and ZigBee-PRO Module

Frequency	Power Output	RF Data Rate (Baud)	Connection / Antenna Type	Digi-Key Part No.	Price Each	Digi International Part No.
NEW! ZigBee-PRO Modules — RoHS Compliant NEW!						
2.4GHz	18dBm	250kbps	PCB, Surface Mount	602-1179-ND	28.00	XBP24BZ7PIT-004
	18dBm	250kbps	RP-SMA	602-1180-ND	29.00	XBP24BZ7SIT-004
	18dBm	250kbps	On-Board, Wire Whip	602-1181-ND	28.00	XBP24BZ7WIT-004
ZigBee Modules						
2.4GHz	2mW	250K	Chip Antenna	602-1096-ND◆	20.21	XB24-Z7CIT-004
	2mW	250K	U.FL Connector	602-1097-ND	20.21	XB24-Z7UIT-004
	2mW	250K	Wire Antenna	602-1098-ND	20.21	XB24-Z7WIT-004
	2mW	250K	RPSMA Connector	602-1099-ND◆	26.45	XB24-Z7SIT-004
ZigBee-PRO Modules						
2.4GHz	50mW	250K	Chip Antenna	602-1100-ND	36.65	XBP24-Z7CIT-004
	50mW	250K	U.FL Connector	602-1101-ND	36.65	XBP24-Z7UIT-004
	50mW	250K	Wire Antenna	602-1102-ND	36.65	XBP24-Z7WIT-004
	50mW	250K	RPSMA Connector	602-1103-ND	38.79	XBP24-Z7SIT-004
900MHz	50mW	156K	U.FL Connector	602-1131-ND◆	38.00	XBP09-DMUIT-156
	100mW	9.6K	U.FL Connector	602-1132-ND◆	39.00	XBP09-XCUIT-009
NEW! Finished XBee Units — RoHS Compliant NEW!						
2.4GHz	1dBm	250K	Transceiver	602-1142-ND	69.00	XA-Z16-CS5RL
	1dBm	250K	Transceiver	602-1143-ND	69.00	XA-Z16-CS4RL
	4.5dBm	250K	XSTICK USB	602-1144-ND	49.00	XU-Z11
	1dBm	250K	RS485	602-1147-ND	69.00	XA-Z16-CS3RL
	1dBm	250K	RS232	602-1148-ND	69.00	XA-Z16-CS2RL
	17dBm	250K	Router	602-1149-ND	69.00	XR-Z14-CW1P1
	17dBm	250K	Analog RPSMA	602-1150-ND	79.00	XA-Z14-CS5P-A
	10dBm	250K	Digital RPSMA	602-1151-ND	79.00	XA-Z14-CS4P-W
	17dBm	250K	RS485 RPSMA	602-1152-ND	79.00	XA-Z14-CS3P-A
	17dBm	250K	RS232 RPSMA	602-1153-ND	79.00	XA-Z14-CS2P-A
	17dBm	250K	USB	602-1154-ND	79.00	XA-Z14-CE1P-A
XBee and XBee-PRO 2.5 Development Kits						
Developer's Starter Kit for XBee				XB24-DKS-ND	129.00	XB24-DKS
Developer's Kit for XBee-PRO				XBP24-DKS-ND◆	179.00	XBP24-DKS
Development Kit for XBee-PRO				XB24-PDK-ND◆	339.00	XB24-PDK
XBee-PRO and XBee Development Kits						
Development Kit for XBee-PRO DigiMesh™ 900				602-1130-ND	299.00	XBP09-DMDK
Development Kit for XBee Multipoint RF Modules				602-1133-ND◆	149.00	XBP09-XC009-DK
Development Kit for XBee-PRO ZB Programmable				602-1182-ND◆ ***NEW!***	423.75	XBP24BZ7B-DK

◆ ***RoHS Compliant***

NEW! iDigi™ Development Kit

The iDigi Professional Development Kit ZB includes all the hardware and software tools necessary to deploy and configure a ZigBee network through the iDigi platform. By using the iDigi platform, developers can rapidly deploy and manage their applications remotely across a ZigBee network through an IP connection, without programming middleware applications.

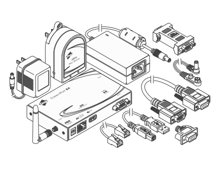

Development Kit includes:

• ConnectPort X4 Ethernet gateway • XBee-PRO ZB RF module w/RPSMA connector • XBee ZB w/RF module Wire Whip antenna • XBee wall router • XBee USB interface board • XBee RS-232 interface board • North American version power supplies • Cables and documentation • Also includes Python programming tools for custom application development

Description	Digi-Key Part No.	Price Each	Digi International Part No.
ZigBee Networking Development Kit for iDigi Platform	602-1140-ND	307.64	XK-Z11-PD

Digi Connect® Wi-SP

The Wi-SP is built on leading NetSilicon® 32-bit NET+ARM technology. This wireless device server delivers a true plug-and-play device networking solution that combines the benefit of secure wireless networking technology with proven serial port connectivity. It is the ideal choice in retail, warehouse, healthcare and medical applications, allowing you to respond immediately to the ever-changing requirements and challenges.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 55MHz) • 4MB Flash and 16MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; None/even/odd parity; Full signal support with software/hardware flow control • 802.11b wireless LAN interface; Infrastructure (BSS) and Ad-Hoc Mode (IBSS) • Flexible 9-30VDC power supply

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Wireless Device Server Adapter	602-1032-ND	369.00	DC-WSP-01-S

Digi Connect® Wi-ME

The Digi Connect Wi-ME is a fully customizable and secure 802.11b wireless embedded module and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features: • 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Radio pre-certified in North America, EU and Japan • 2 high-speed TTL serial interfaces • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware	602-1037-ND◆	130.00	DC-WME-01T-S
8MB SDRAM, 4MB Flash, Customizable	602-1038-ND◆	130.00	DC-WME-01T-C
Integration Kit (for use with "S" models)	602-1051-ND◆	299.00	DC-WME-KT
Development Kit without Raven Debugger (for use with "C" models)	602-1001-ND	738.00	DC-WME-01T-GN-NR
Customizable with JTAG Interface	602-1002-ND	249.00	DC-WME-01T-JT

◆ ***RoHS Compliant***

Digi Connect® Wi-EM

The Digi Connect Wi-EM is a fully customizable and secure 802.11b wireless embedded module that provides integration flexibility in a variety of connection options, and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features: • 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • 2 high-speed TTL serial interfaces • Radio pre-certified in North America, EU and Japan • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware without antenna	602-1067-ND◆	148.75	DC-WEM-02T-NC
8MB SDRAM, 4MB Flash, Std. Firmware	602-1041-ND◆	140.00	DC-WEM-02T-S
Integration Kit (for use with "S" models)	602-1008-ND◆	299.00	DC-WEM-02T-KT
Development Kit without Raven Debugger (for use with "C" models)	602-1010-ND	738.00	DC-WEM-02T-GN-NR
Customizable Module with JTAG Interface	602-1012-ND◆	249.00	DC-WEM-02T-JT

◆ ***RoHS Compliant***

ConnectCore™ Wi-9C

Highly-integrated, compact DIMM form factor module based on the 155MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity. It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high performance solution.
Features: • 32-bit NS9360 high performance RISC processor (155MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I²C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock • Pin-compatible wired and wireless modules • Standard: IEEE 802.11b/g • Transmit power: 16dBm typical • Receive sensitivity: -73dBm at 54Mbps • Connector: 1/2 x RP-SMA or 2 x U.FL

Description	Digi-Key Part No.	Price Each	Digi International Part No.
JumpStart Kit for Wi-9C with NET+OS	602-1068-ND	518.75	CC-W9C-NET
JumpStart Kit for Wi-9C with Windows CE	602-1077-ND	499.00	CC-W9C-CE6

ConnectCore™ 9P 9215

Digi's ConnectCore 9P 9215 family of modules utilize Digi's NET+ARM processor and secure 802.11a/b/g WLAN technology to offer the industry's only network-enabled core module with true long-term product availability, meeting the extended life requirements of embedded product designs. **Features:** • Compact form factor with interchangeable module design • Digi 32-bit NS9215 processor with power ARM926EJ-S core • Digi CPU and WLAN technology for true long-term availability • Up to 16 MB flash/32 MB RAM • 10/100 Mbit Ethernet interface • 802.11a/b/g wireless LAN • Strong WPA2/802.11i security • Power management modes • Industrial/extended temperature range

Description	Digi-Key Part No.	Price Each	Digi International Part No.
Highly Integrated Network-Enabled Core Module	CC-9P-V502-C-ND	69.00	CC-9P-V502-C
8MB SDRAM, 4MB Flash Module	602-1163-ND ***NEW!***	1725.00	CC-9P-V502-C-B
8MB SDRAM, 4MB Flash Module	602-1162-ND ***NEW!***	79.00	CC-9P-V502-ZA-C
16MB SDRAM, 8MB Flash Module	602-1161-ND ***NEW!***	84.00	CC-9P-V513-LX
32MB SDRAM, 16MB Flash Module	602-1160-ND ***NEW!***	99.00	CC-9P-V524-LX
802.11A/B/G	602-1158-ND ***NEW!***	129.00	CC-W9P-V502-C
802.11A/B/G	602-1157-ND ***NEW!***	3225.00	CC-W9P-V502-C-B
Jumpstart Kit for Wi-9P 802.11	602-1159-ND ***NEW!***	423.75	CC-W9P-9215-NET

Antennas for Digi Wireless Modules

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Dipole Antenna with 2dBi Gain	602-1064-ND◆	10.00	DC-ANT-24DP
2.4GHz Desktop Antenna with 2dBi Gain	602-1065-ND	20.00	DC-ANT-24DT
30cm Extension Cord with RP-SMA Bulkhead Connector	602-1066-ND◆	12.00	DC-ANT-E-24DP

◆ ***RoHS Compliant***

XBee® Sensors

XBee sensors easily integrate into ZigBee networks, featuring long battery life and small size for unobtrusive installation anywhere. **Features:** • ZigBee wireless sensors - temperature, humidity, light • Small form factor can be mounted anywhere • Long-life battery • Easy to install/configure

Description	Digi-Key Part No.	Price Each	Digi International Part No.
XBee Sensor - Battery Powered Temperature, Humidity and Light	602-1129-ND	139.00	XS-B14-CB2RB
XBee Sensor - Battery Powered Temperature, Humidity and Light	602-1174-ND ***NEW!***	138.00	XS-Z16-CB2R
XBee Sensor - Battery Powered Temperature, Humidity and Light	602-1175-ND ***NEW!***	104.00	XS-Z16-CB1R

ConnectPort™ X Gateways

ConnectPort X gateways aggregate wireless Personal Area Network (PAN) traffic - such as ZigBee and 802.15.4 point-to-multipoint - for IP connectivity over a secure cellular, Wi-Fi or Ethernet connection.

Features: • Multiple configuration options for high performance Drop-in Networking • Full network flexibility: ZigBee / 802.15.4 for PAN connections, Cellular for WAN connections, Wi-Fi (802.11b/g) and Ethernet for WAN or LAN connections • Python development environment • Optional GPS or local storage

Description	Digi-Key Part No.	Price Each	Digi International Part No.
NEW! ConnectPort X8 NEW!			
XBee to Ethernet	602-1171-ND	499.00	X8-A11-E-A
ConnectPort X4 - 802.15.4			
XBee to Ethernet	602-1108-ND	399.00	X4-A11-E-A
XBee to Wi-Fi 802.11g	602-1109-ND	449.00	X4-A11-W-A
XBee to Ethernet and Cellular (2G GPRS)	602-1110-ND	499.00	X4-A11-A01-A
ZigBee to Wi-Fi	602-1155-ND ***NEW!***	449.00	X4-Z11-W-A
ZigBee to Ethernet	602-1156-ND ***NEW!***	399.00	X4-Z11-E-A
ZigBee to Ethernet and Cellular	602-1172-ND ***NEW!***	499.00	X4-Z11-A01-A
ConnectPort X4 - ZNet 2.5			
XBee to Ethernet	602-1111-ND	399.00	X4-B11-E-A
XBee to Wi-Fi 802.11g	602-1112-ND	449.00	X4-B11-W-A
XBee to Ethernet and Cellular (2G GPRS)	602-1113-ND	499.00	X4-B11-A01-A
ConnectPort X2 - ZNet 2.5			
XBee to Ethernet	602-1114-ND	199.00	X2-B11-E-A
XBee to Wi-Fi 802.11b	602-1115-ND	249.00	X2-B11-W-A
ZigBee to Ethernet	602-1173-ND ***NEW!***	199.00	X2-Z11-E-A
XBee ZNet 2.5 Adapters			
XBee RS-485	602-1116-ND	69.00	XA-B14-CS3R
XBee RS-232	602-1117-ND	69.00	XA-B14-CS2R
XBee Sensor	602-1118-ND	69.00	XA-B14-CS1R
XBee USB	602-1119-ND	69.00	XA-B14-CE1R
XBee Digital I/O	602-1120-ND	69.00	XA-B14-CS4R
XBee Analog I/O	602-1121-ND	69.00	XA-B14-CS5R
XBee RS-232PH (Power Harvesting)	602-1122-ND	69.00	XA-B14-CE2R

Watchport® Sensors for Drop-in Networking

Watchport sensors provide a plug-and-play solution for Drop-in Networking applications. Each sensor connects to Digi's XBee sensor adapters (sold separately) for wireless connectivity to sensor data over a low power Zigbee network. Sensors are available to measure distance, proximity, temperature/humidity, acceleration/tilt, and the presence of water. Monitoring remote assets with Watchport sensors can preempt damage to facilities, reduce costly maintenance and warn of threatening environmental conditions. **Features:** • Ideal for remote monitoring of critical environmental data • Plug into Digi's XBee sensor adapter (via RJ-45 connector) for wireless Zigbee connectivity • No external power supply required • A'la carte product selection allows total customization • Easy to install and configure • Extend distance between sensor and XBee sensor adapter with CAT5 UTP cable

Description	Digi-Key Part No.	Price Each	Digi International Part No.
Watchport/H - Humidity/Temperature Sensor	602-1123-ND	90.00	70002335
Watchport/T - Temperature Sensor	602-1124-ND	35.00	70002334
Watchport/D - Distance/Proximity Sensor	602-1125-ND	72.00	70002333
Watchport/W - Water Detector Sensor	602-1126-ND	35.00	70002336
Watchport/A - Accelerometer Sensor	602-1127-ND	72.00	70002337

Drop-in Networking Starter Kits

Digi's Drop-in Networking solutions are designed to provide end-to-end wireless connectivity to distributed electronic devices so those devices and the information they hold can be accessed and managed from anywhere. Drop-in Networking enables product and service differentiation by making devices smarter through wireless network connectivity and using this added intelligence to deliver faster, more accurate and more relevant information to end users.

Kit Includes: • ConnectPort X8 gateway • XBee RS-232 adapter • XBee sensor adapter • XBee modules • Interface boards • Watchport/T temperature sensor • Power supplies, cable adapters, user documentation, and Python code samples

Description	Digi-Key Part No.	Price Each	Digi International Part No.
Drop-in Networking Starter Kit, International	602-1105-ND	549.00	XK-A11-SK-W
Drop-in Networking Starter Kit 802.15.4	602-1145-ND ***NEW!***	499.00	XK-A11-SK

Drop-in Networking Professional Development Kits

The Drop-in Networking Professional Development Kit provides the hardware and software tools to rapidly deploy a real-world wireless sensor / device network and proof-of-concept system. All hardware components are pre-configured to run either mesh or multipoint networking software, which is optimized for low-power, battery-fueled operation.

Kit Includes: • 3 XBee modules (1 XBee and 2 XBee-Pro®) and 3 interface boards (1 USB and 2 RS-232) • 1 ConnectPort™ X2 gateway • 1 XBee wall router or 1 XBee USB adapter • Power supplies, user documentation and configuration CD. The CD also provides a set of Python® programming tools

Description	Digi-Key Part No.	Price Each	Digi International Part No.
Drop-in Networking Development Kit, International	602-1107-ND	419.00	XK-A11-EBP-W
Drop-in Networking Development Kit 802.15.4	602-1146-ND ***NEW!***	399.00	XK-A11-EBP

A Product Line of Diodes Incorporated

RF Amplifiers

The ZNBG range of fixed bias controllers provides all the bias requirements for GaAs and HEMT FETs typically used in satellite receiver LNBs and other general GaAs FETs applications. The IC provides a drain voltage of +2.2V and a gate voltage of -3V which is generated from an internal generator. The range supports up to 6 independent GaAs FETs and all stages are fully protected and temperature compensated.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
			1	10	100		Qty.	Pricing
LNA, 18dB Gain, Low Current Amplifier	SC70-6	ZAMP001H6CT-ND	.98	.89	.70	—	—	—
Medium Power, 22dB Gain, Wide Dynamic Range Amplifier	SC70-6	ZAMP002H6CT-ND	.98	.89	.70	—	—	—
LNA, 15dB Gain, Very Low Current Amplifier	SC70-6	ZAMP003H6CT-ND	.98	.89	.70	—	—	—
FET Bias Controller, 4 Stage	16-QSOP	ZNBG4000Q16CT-ND	5.22	4.70	3.83	ZNBG4000Q16TR-ND	2,500	2314.00/M
FET Bias Controller, 6 Stage	20-QSOP	ZNBG6000Q20CT-ND	6.92	6.27	5.22	—	—	—

TECHNOLOGIES

CONNECT WITH RELIABILITY

802.11b/g Modules and Kits

AirborneDirect™ Bridge Modules: Come with either Ethernet, Serial (RS232/422/485) or RS232 connections, to a wireless LAN interface utilizing an 802.11b radio. Used to easily integrate wireless into a design. Includes antenna. **Airborne™ Embedded Modules:** Versions include LAN mode module, module with Integrated Ethernet Bridge software or a module with Integrated Serial Bridge software. U.FL Connector on board.

Description	Connection Type	Digi-Key Part No.	Price Each			DPAC/Quatech Part No.
			1	10	25	
AirborneDirect™ Modules / Kits						
Wireless Device Server 802.11b/g with Antenna	RS232/422/485	590-1018-ND	206.60	—	—	ABDG-SE-DP101-G
Wireless Ethernet Bridge 802.11b/g	Ethernet	590-1021-ND	195.76	—	—	ABDG-ET-DP101-G
Airborne™ Embedded Modules / Kits						
802.11b/g Module Integrated Serial Bridge Software with U.FL Antenna Port	RS232	590-1015-ND	89.00	83.66	80.19	WLNG-AN-DP101-G
802.11b/g Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1017-ND	89.00	83.66	80.19	WLNG-ET-DP101-G
802.11b/g WPA2 Enterprise Module Integrated Serial Bridge Software with U.FL Antenna Port	RS232/422/485	590-1044-ND	109.00	102.46	95.93	WLNG-AN-DP501
802.11b/g WPA2 Enterprise Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1046-ND	109.00	102.46	95.93	WLNG-ET-DP501
802.11b/g WPA2 Enterprise Module Integrated Serial Bridge Software with U.FL Antenna Port	RS232/422/485	590-1047-ND	109.00	102.46	95.93	WLNG-SE-DP501
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1037-ND	166.40	—	—	ABDG-ET-DP103
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1036-ND	279.00	—	—	ABEG-ET-DP103-G
Development Kit for Airborne Embedded 802.11b/g Module without Wireless Access Point	Serial	590-1022-ND	295.00	—	—	WLNG-EK-DP003-G
Development Kit for Airborne Embedded 802.11b/g WPA2 Enterprise Module	Ethernet	590-1043-ND	195.00	—	—	ABEG-ET-DP104
Development Kit for Airborne Embedded 802.11b/g WPA2 Enterprise Module	—	590-1045-ND	295.00	—	—	WLNG-EK-DP501
802.11b/g Enterprise Class Device Server Module Kit SPI to 802.11b/g	Serial	590-1048-ND ***NEW!***	295.00	—	—	WLNG-EK-DP502
Airborne Enterprise Class Ethernet Bridge Module 802.11b/g	Ethernet	590-1049-ND ***NEW!***	295.00	—	—	WLNG-EK-DP503
Airborne Enterprise Class Device Server, SPI to 802.11b/g	RS-232/422/485	590-1050-ND ***NEW!***	109.00	102.46	95.93	WLNG-SP-DP501
Antennas and Accessories						
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1014-ND	13.00	12.22	11.44	ACH0-CA-DP004-G
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1028-ND	9.50	8.93	8.36	ACH2-AT-DP002-G
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1007-ND	14.00	13.16	12.32	ACH2-AT-DP003
Antenna, 5dBi, Rubber Duck, U.FL (Flying Lead)	—	590-1030-ND	11.90	11.19	10.48	ACH2-AT-DP004-G

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ember

ZigBee™ Compliant ICs and Development Kits

The **EM250** is a single-chip solution that integrates a 2.4GHz, ZigBee/802.15.4-compliant transceiver with a 16-bit XAP2b microprocessor. It contains integrated Flash and RAM memory and peripherals of use to designers of ZigBee-based applications.

The **EM260** integrates a 2.4GHz, IEEE 802.15.4-compliant transceiver with a 16-bit XAP2b processor to run EmberZNet, the Ember ZigBee-compliant network stack. The XAP2b microprocessor is a power-optimized core integrated in the EM260. It contains integrated Flash and RAM memory along with an optimized peripheral set to enhance the operation of the network stack.

The **EM35X** is a single chip solution that integrates a 2.4GHz 802.15.4/ZigBee radio and ARM-Cortex processor for high performance low-power applications. The development options include the EM35X-DEV with evaluation licenses for EWARM IAR IDE and Insight Desktop. The EM35X-DEV-IAR includes license for compiler and debugger.

The **JumpStart™ Developer Kit** contains both hardware and software, enabling customers to quickly launch development projects for embedding low-power low-data rate wireless application into their products.

The **Full Development Kit** includes hardware, networking stack and development and debugging software for building embedded applications. The software package includes a service-aware API that simplifies code development and lets you focus on your embedded applications.

Description	Digi-Key Part No.	Price Each 1	10	100	Ember Part No.
IEEE 802.15.4/ZigBee ICs — RoHS Compliant					
ZigBee Single Chip IC, 48-QFN	636-1000-1-ND§	6.16	5.55	4.93	EM250-RTR
ZigBee Single Chip IC, 48-QFN	636-1000-2-ND‡		9140.00/2,000		EM250-RTR
ZigBee Single Chip IC, 40-QFN	636-1007-1-ND§	6.90	5.52	4.66	EM260-RTR
ZigBee Single Chip IC, 40-QFN	636-1007-2-ND‡		14973.00/3,500		EM260-RTR
IC RF Radio Tranceiver ZigBee 128KB 48-QFN	636-1010-1-ND§✔	7.60	6.08	5.13	EM351-RTR
IC RF Radio Tranceiver ZigBee 128KB 48-QFN	636-1010-2-ND‡✔		9500.00/2,000		EM351-RTR
IC RF Radio Tranceiver ZigBee 192KB 48-QFN	636-1011-1-ND§✔	7.90	6.32	5.34	EM357-RTR
IC RF Radio Tranceiver ZigBee 192KB 48-QFN	636-1011-2-ND‡✔		9876.00/2,000		EM357-RTR
Development Kits					
JumpStart Kit for EM250	636-1001-ND	2500.00	—	—	EM250-JMP-R
JumpStart Kit for EM260	636-1004-ND	2500.00	—	—	EM260-USART-JMP-R
Full Development Kit for EM250	636-1002-ND	10000.00	—	—	EM250-DEV
Development Kit for EM35X ZigBee	636-1012-ND◆✔	2500.00	—	—	EM35X-DEV
EM35X Breakout Board	636-1013-ND◆✔	150.00	—	—	EM35X-BBRD
Insight Adapter 3 for EM35X	636-1022-ND◆✔	500.00	—	—	ISA3
Development Kit for EM35X IAR EWARM ZigBee	636-1027-ND◆✔	5500.00	—	—	EM35X-DEV-IAR
IAR EWARM License for EM35X	636-1028-ND◆✔	3000.00	—	—	EM35X-DEV-UPG-IAR
Insight Adapter for EM2XX	636-1029-ND◆✔	900.00	—	—	EM2XX-ISA-R
NEW! Development Modules — RoHS Compliant NEW!					
Module EM351 No PA/LNA with Antenna	636-1014-ND	37.50	35.00	32.50	EM351-MOD-ANT-TG
Module EM351 No PA/LNA with RF Connector	636-1015-ND	37.50	35.00	32.50	EM351-MOD-RF-TG
Module EM351 PA/LNA with Antenna	636-1016-ND	45.00	42.00	39.00	EM351-MOD-LR-ANT-TG
Module EM351 PA/LNA with RF Connector	636-1017-ND	45.00	42.00	39.00	EM351-MOD-LR-RF-TG
Module EM357 No PA/LNA with Antenna	636-1018-ND	37.50	35.00	32.50	EM357-MOD-ANT-TG
Module EM357 No PA/LNA with RF Connector	636-1019-ND	37.50	35.00	32.50	EM357-MOD-RF-TG
Module EM357 PA/LNA with Antenna	636-1020-ND	45.00	42.00	39.00	EM357-MOD-LR-ANT-TG
Module EM357 PA/LNA with RF Connector	636-1021-ND	45.00	42.00	39.00	EM357-MOD-LR-RF-TG
EM250 RCM Board	636-1023-ND	105.00	—	—	EM250-RCM-R
EM250 Breakout Board	636-1024-ND	150.00	—	—	EM250-BBRD-R
EM260 RCM Board	636-1025-ND	105.00	—	—	EM260-RCM-USART-R
EM260 Breakout Board	636-1026-ND	162.50	—	—	EM260-BBRD-128K-USART-R
Programing Tool — RoHS Compliant					
USB FLASH Programming for EM250/EM260	636-1009-ND	72.00	—	—	EM2XX-USB-PROG-R

✔ ***NEW!*** § Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

EPCOS

LTCC WLAN Frontend Modules for 802.11

Features:
• Miniature fully-integrated WLAN / Bluetooth front end module for mobile phone applications • Covering IEEE 802.11b/g (WLAN) and Bluetooth frequency band at 2.4GHz • Integrated fully-matched power amplifier with power detector • Integrated high-rejection filter for coexistence of cellular and WLAN radios • Integrated high-isolation SP3T antenna switch • Simple application circuit with minimum external component count • Power supply from unregulated battery voltage Specifications: • Operating Temperature Range: -30°C ~ 85°C • Maximum Input Power on Tx Port: 5dBm • Maximum Input Power on RF Ports (except Tx): 30dBm • Maximum Supply Voltage: 5.4V • Maximum Supply Current: 400mA • Maximum Reference Voltage: 3.0V

Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Epcos Part No.
495-3922-1-ND	5.70	5.13	4.28	495-3922-2-ND	2850.00/M	B30810D6101Q819

NEW! ethertronics
shaping antenna technology™

Antennas

Fig. 1

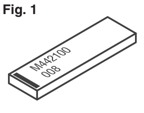

Fig. 2

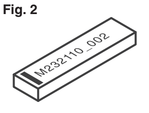

Fig. 3

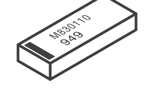

Fig. 4

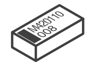

Fig. 5

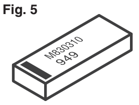

Fig. 6

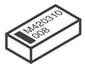

Fig. 7

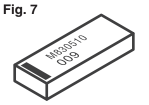

Fig. 8

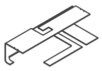

Fig. 9

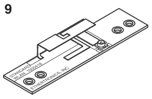

Fig. 10

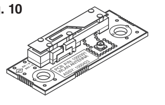

Fig. 11

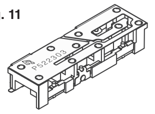

Fig.	Peak Gain @ Frequency (dbi)	Average Efficiency (%)	VSWR (max.)	Feed Point Impedance (Ω)	Digi-Key Part No.	Price Each 1	100	500	Ethertronics Part No.
Savvi™ Embedded Ceramic GPS and Bluetooth® Antennas and Demo Boards									
1	-2.4	60	2.6:1	50	939-1000-1-ND†	4.95	4.50	3.50	M442100
	-2.4	60	2.6:1	50	939-1000-2-ND‡		8775.00/4,500		M442100
	-2.4	60	2.6:1	50	939-1001-ND§	15.00	—	—	M442100-01
2	1.88∆	67	2.6:1	50	939-1002-1-ND†	4.95	4.50	3.50	M232110
	1.88∆	67	2.6:1	50	939-1002-2-ND‡		8775.00/4,500		M232110
	1.88∆	67	2.6:1	50	939-1003-ND§	15.00	—	—	M232110-01
3	1.78	75	1.7:1	50	939-1004-1-ND†	4.50	3.95	2.95	M830110
	1.78	75	1.7:1	50	939-1004-2-ND‡		6524.80/4,500		M830110
	1.78	75	1.7:1	50	939-1005-ND§	15.00	—	—	M830110-01
4	1.1	59	1.9:1	50	939-1006-1-ND†	4.25	3.70	2.70	M420110
	1.1	59	1.9:1	50	939-1006-2-ND‡		4875.00/6,000		M420110
	1.1	59	1.9:1	50	939-1007-ND§	15.00	—	—	M420110-01
5	1.39	78	2.0:1	50	939-1008-1-ND†	4.50	3.95	2.95	M830310
	1.39	78	2.0:1	50	939-1008-2-ND‡		6525.00/4,500		M830310
	1.39	78	2.0:1	50	939-1009-ND§	15.00	—	—	M830310-01
6	0.3	57	3:1	50	939-1010-1-ND†	4.25	3.70	2.70	M420310
	0.3	57	3:1	50	939-1010-2-ND‡		8125.00/10,000		M420310
	0.3	57	3:1	50	939-1011-ND§	15.00	—	—	M420310-01
Savvi™ Embedded Ceramic WLAN 802.11 a/b/g Antenna									
7	1.1	54	2.6:1	50	939-1012-1-ND†	4.50	3.95	2.95	M830510
	1.1	54	2.6:1	50	939-1012-2-ND‡		6525.00/4,500		M830510
	1.1	54	2.6:1	50	939-1013-ND§	15.00	—	—	M830510-01
Prestta™ Embedded WLAN Antennas									
8	3.0	65	2.1:1	50	939-1014-1-ND†	4.00	1.50	1.25	1000146
	3.0	65	2.1:1	50	939-1014-2-ND‡		1164.00/1,200		1000146
9	1.5 ~ 2.5	65	2.0:1	50	939-1015-ND▲	7.00	—	5.25	1000418
10	-0.6	55	3.0:1	50	939-1016-ND▲	7.00	—	5.25	1000423
Prestta™ Standard Penta-Band Cellular Embedded Antennas									
11	2.8	66	2.5:1	50	939-1019-ND▲	4.95	4.50	3.99	P522303
	2.8	66	2.5:1	50	939-1020-ND§	15.00	—	—	P522303-01
Cable with U.FL Connectors									
For Prestta WLAN antennas, 150mm					939-1017-ND◊	2.50	—	2.30	1000517
For Prestta WLAN antennas, 305mm					939-1018-ND◊	2.50	—	2.30	1000511

† Cut Tape ‡ Tape and Reel § Box ▲ Tray ◊ Bag ∆ 1.88 @ 2.4GHz, 1.98 @ 1.575GHz

Readers

ID ISC.MR101-A, ID ISC.MR101-USB and ID ISC.MR101.M-A

Multi-tag mid range reader for identification of Smart Labels in the fields of application retail, rental services and industry. The mid-range reader ID ISC.MR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. Depending on the antenna used, the reader has a maximum reading distance of up to 40cm.

Specifications: • Anticollision Function • OBID i-scan SMP (Standard Multi-tag Protocol) • Multi-tag Reader (I-CODE, Tag-it, ISO 15693) • Housing: Plastic • Color: Light Grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 170g • Power Supply: Variant A: 12VDC ~ 24VDC +/-15% via external power supply; Variant USB: 12V via external power supply • Power Consumption: Approximately 6VA • Operating Frequency: 13.56MHz • Transmitting Power: Approximately 0.8W up to 1W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna connection: 1 x SMA female plug (50Ω) • Reading Distance: Maximum 40cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED (multicolored red/green) • Processable Transponders: I-CODE, Tag-it and ISO 15693 • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 85°C • FLASH: 64kByte (software may be updated via interface)

629-1016-ND	(FEIG ELECTRONICS # 1638.001.02) USB	**$567.91**
629-1019-ND	(FEIG ELECTRONICS # 1638.005.01) Module, RS232/485	**$501.60**

ID ISC.LRMU1000-A-FCC, ID ISC.LRU1000-A0-FCC and ID ISC.LRU1000-A-FCC

The UHF-Long Range Reader Module ID ISC.LRMU1000 identifies UHF transponders within a frequency range from 865MHz to 928MHz and so can be used in Europe and in North America. Licensed according to EN and FCC, in each area maximum allowed transmitting power can be realized. Due to the high maximum reading range of up to 5m with a single antenna and up to 10m with a multi-antenna application, the reader is suitable especially for Asset Management and logistical applications especially there, simultaneous identification of several transponders and very high reading ranges are necessary! Connection of up to 4 external antennas enables realization of multi-antenna-applications (integrated Multiplexer), two different interfaces (RS232, RS485) guarantee high flexibility to connect the reader with your individual backup-system.

Specifications: • Dimensions (W x L x H): 170mm x 320mm x 48mm • Power Supply: 12VDC ~ 24VDC • Power Consumption: Maximum 29VA • Operating Frequency: 869, 525MHz; 865, 6-867, 6MHz (200kHz steps); 902MHz ~ 928MHz (500kHz steps) • Transmitting Power: 100mW ~ 4W (100mW steps); 4W EIRP; 2W ERP (0.5W ERP) • Modulation: 20%, 40% and 100% (scalable via Software) • Receiver: Data rates 40kbps ~ 320kbps • Antenna Connectors: 4 x SMA connector (50Ω) • Outputs: 1 Optocoupler: 24VDC/30mA, 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA • Interfaces: RS232 and RS485 • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 85°C

629-1049-ND	(FEIG ELECTRONICS # 2481.001.11) FCC Module	**$2337.90**
629-1045-ND†	(FEIG ELECTRONICS # 2241.002.12) Housed	**$2859.17**
629-1046-ND†	(FEIG ELECTRONICS # 2241.002.11) Housed, Supports EPC Class 0/0+ Protocols	**$2599.83**

† Housing: Plastic with heatsink; Dimensions (W x L x H): 180mm x 320mm x 110mm; Protection Class: IP 54

ID ISC.M02-B

The ID ISC.M02-B works with Smart Labels with an operating frequency of 13.56MHz. The Read/Write PCB has a maximum reading distance of up to 10cm by using the integrated antenna. By using the external antennas, distances of 7cm (antenna size 30mm x 40mm) respectfully 14cm (antenna size 100mm x 100mm) will be reached. The reader is above all suitable for supply chain applications in the fields of retail, industry, logistics etc. It is even suitable for problematic applications such as ticketing and accounting systems due to an attachable security access module. Apart from this, the data/clock interface enables the reader to be used in access control systems.

Specifications: • Dimensions (L x W x H): 50mm x 50mm x 15mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF Transmitting Power: 90mW +/-2dB • Power Consumption: Maximum 1W • Processable Transponders: ISO 15693 transponders such as I-CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I etc. • Processable Safety Features: Refitting of SAM (Security Access Module) is possible for my-d vicinity • Antenna: Integrated, 48mm x 48mm, external 50Ω antennas optional • Reading Distance: 10cm with integrated antenna up to 14cm with external antennas • Interfaces: 1x RS232-TTL, 1x Data/clock interface, (magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software update over interface possible)

629-1032-ND	(FEIG ELECTRONICS # 1834.000.00)	**$201.80**

ID ISC.PRH101-USB and ID ISC.PRH101-A

As every device of the OBID i-scan HF product family, the hand-held reader ID ISC.PRH101-B identifies transponders with an operating frequency of 13.56MHz. The reader has a maximum reading/writing distance of up to 18cm and is suitable especially for mobile use in connection with a PDA or laptop. PDA or laptop can be used as a mobile host e.g. as data collector. The reader's own power supply allows RF transmitting power, that enables identification of transponders which are very close together.

Specifications: • Bluetooth interface (class I-B) • Anti-collision function • OBID i-scan ISO Host Mode • 2 Operation Modes: Scan-Mode/Polling-Mode • Housing: Plastic ABS (closed) • Color: RAL 9002/RAL 7044 • Dimensions (L x W x H): 230mm x 100mm x 80mm • Weight: 320g (without batteries) • Pro**629-1011-N**tection Class: IP 30 • Power Consumption: Maximum 2.5W • Operating Frequency: 13.56MHz • Transmitting Power 0.5W +/-2dB • Antenna: Integrated • Interface: Bluetooth (class I)/USB/RS232 • Supported Transponders: ISO 15693 tags, ISO 18000-3 tags, optional: further tag types • Signal Generator: Optical: 1 LED (red/green/blue); Acoustic: Buzzer • Temperature Range: Operating: 0°C ~ 50°C; Storage: -20°C ~ 70°C • Relative Humidity: 95% (non-condensing)

629-1010-ND	(FEIG ELECTRONICS # 1524.000.01) RS-232	**$475.67**
629-1011-ND	(FEIG ELECTRONICS # 1524.001.01) USB	**$510.26**

ID ISC.PR101-A, ID ISC.PR101-USB and ID ISC.PR101.M-A

The proximity reader ID ISC.PR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. The reader has an integrated antenna with a maximum reading distance of up to 18cm. Due to its compact dimensions, the reader is suitable for desk-applications. The reader's anti-collision function facilitates simultaneous identification of several objects even when these are wrapped.

Specifications:

• Housing: Plastic • Color: RAL 9018, light grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 200g • Power Supply: Variant-A (RS232/RS485): 12VDC ~ 24VDC +/-15% via external power supply; Variant-USB: via USB interface • Power Consumption: Maximum 5VA • Operating Frequency: 13.56MHz • Transmitting Power 0.5W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna: Integrated • Reading Distance: Maximum 18cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED multicolored, red/green • Processable Transponders: ISO-tags 15693 (e.g. I-CODE, Tag-it, my-d, STM etc.) • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 70°C • FLASH: 64kByte (software may be updated via interface)

629-1017-ND	(FEIG ELECTRONICS # 1638.002.01) RS-232	**$518.91**
629-1018-ND	(FEIG ELECTRONICS # 1638.003.02) USB	**$556.38**
629-1020-ND	(FEIG ELECTRONICS # 1638.007.01) Module	**$490.07**

ID CPR.M02-VP/AB-B and ID CPR.M02-VP/AB-CA

The multi tag reader with anti-collision function, which means that it is able to identify transponders of different manufacturers and ISO types at the same time. The reader supports the safety functions of various known 13.56MHz transponders, such as MIFARE or my-d, due to an attachable Security Access Module which makes it even suitable for problematic applications such as ticketing and accounting systems. Apart from this, the data/clock interface enables the reader to be used in access control systems.

Specifications: • Dimensions (W x H x D): 50mm x 50mm x 14mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF-Transmitting Power: 250mW +/-2dB • Power Consumption: Maximum 1.5W • Processable Transponders: ISO 14443-A (e.g. MIFARE, MIFARE Ultra Light, my-proximity) ISO 14443-B • ISO 15693 (e.g. I-CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I) • Processable Security Features: Refitting of SAM (Security Access Module) is possible for e.g. my-d vicinity and my-d proximity • Antenna: Integrated, 48mm x 48mm • Reading Distance: 10cm with ISO 15693-tags, 4cm with ISO 14443-tags • Interfaces: 1x RS232-TTL, 1x Data/clock-interface (Magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software-Update over interface possible)

629-1034-ND	(FEIG ELECTRONICS # 1916.000.01) On-Board Antenna	**$196.33**
629-1057-ND	(FEIG ELECTRONICS # 2873.000.00) Module	**$207.86**

ID ISC.LRM2000-A, ID ISC.LRM2000-B and ID ISC.LR2000-A

The ID ISC.LR2000 Long Range Reader and the ID ISC.LRM2000 Long Range Reader Unit are the top of the line Long Range Reader versions of the OBID i-scan HF product line.

The ID ISC.LR2000 and ID ISC.LRM2000 are the most powerful reader in the OBID i-scan HF product line. Both devices have identical RF performance. The ID ISC.LRM2000 differs from the ID ISC.LR2000 in terms of housing, interface options and functionality for the host connectivity of the device. **Features:** • Highly sensitivity receiver increased the tag detection range so that the most transponders can be read over the entire power up, field strength area • RF front end accommodates arbitrary cable lengths between the reader and the antenna without adversely affecting the read range of the antenna • RF front end has its own power control to protect the read range from external noise sources • The reader delivers a DC voltage on the antenna output to source DC powered devices connected to the antenna cable, such as the OBID i-scan Dynamic Antenna Tuning board (ID ISC.ANT.DAT-A) • RF source of the reader meets different national radio rules and can achieve the 60dbµA/m ETSI limits

The reader is able to directly control antenna multiplexing functions. The RF section of the reader is controlled by a dedicated DSP based, RF controller. A second microcontroller, the Application and Connectivity Controller (ACC), uses an ARM processor running a µcLinux operating system. The reader has four hardware interface ports: Ethernet, RS232, RS485, and a Compact Flash 2 compatible port to support a WLAN Card. All ports are under control of the ACC. In combination, the powerful and flexible RF transmitter and receiver and intelligent digital controller form the basis of an agile, multi protocol reader that can be updated as future protocols and features are created.

Specifications for LRM2000: • Dimensions (W x H x D): 120mm x 160mm x 45mm • Weight: 0.6kg • Power Supply: 24VDC ±15% • Power Consumption: Maximum 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4W ~ 12W • Antenna Connection: 1 x SMA connector (50Ω) • DC Power on RF Line: 8VDC Maximum 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485 • Supported Transponder: I-Code1, ISO15693, 18000-3-A, (e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI) • Indicators: 5 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C

Specifications for LR2000: • Casing: Plastic • Dimensions (W x H x D): 180mm x 320mm x 110mm • Weight: 1.9kg • Protective System: IP 54 • Color: Black • Power Supply: 24VDC ±15% • Power Consumption: Maximum 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4W ~ 12W • Antenna Connection: 1x SMA connector (50Ω) • DC Power on RF Line: 8VDC Maximum 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485, Ethernet (TCP/IP), Compact Flash-II (WLAN) • Supported Transponder: I-Code1, ISO15693, 18000-3-A, e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI • Indicators: 6 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C

629-1003-ND	(FEIG ELECTRONICS # 1260.021.00) Module, No Housing	**$2724.22**
629-1004-ND	(FEIG ELECTRONICS # 1260.022.00) Module, No Housing, RS-232/485 Only	**$2478.42**

ID ISC.MR200-A and ID ISC.MR200-E

The reader ID ISC.MR200-A/-E is offered in an aluminium housing with the protection class IP54; for this reason it is protected against dust, dirt and syringe water and can be used therefore in the industrial background. Transmitting power of up to 1.7W enables reading ranges of up to 70cm. The reader has several I/O's as well as a so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required.

Specifications: • Housing: Aluminium • Color: RAL 7040 • Dimensions (L x W x H): 200mm x 110mm x 60mm • Protection Class: IP 54 • Power Supply: 12VDC ~ 24VDC • Power Consumption: Maximum 12VA • Operating Frequency: 13.56MHz • Transmitting Power: 1.7W • Antenna Connection: SMA plug (50Ω) • Outputs: 2 Optocouplers: 24VDC/30mA; 1 Relay; 24VDC/2A • Inputs: 2 Optocouplers: Maximum 24VDC/20mA • Interfaces: Version-A: RS232 and RS485 (adjustable); Version -E: Ethernet 10Base-T or 100Base-TX • Operation Modes: FEIG ISO Host Protocol • Processable Transponders: ISO 15693, EPC • Address Control for Interface: Software (up to 254 addresses, only RS485) • Signal Generator: 5 LED • Temperature Range: Operating: -20°C ~ 60°C; Storage: -25°C ~ 85°C

629-1041-ND	(FEIG ELECTRONICS # 2060.000.00) A Version, RS-232/485	**$1416.19**
629-1043-ND	(FEIG ELECTRONICS # 2221.000.01) E Version, Ethernet	**$1723.44**

ID ISC.MR200-WLAN

ID ISC.MR200-WLAN is offered in a solid plastic housing with the protection class IP 54; for this reason it is protected against dust, dirt and splash water and can be used therefore out of doors. Transmitting power of up to 1.75W enables reading ranges of up to 70cm. The reader has several I/O's as well as so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required. The reader has a RS232 and WLAN interface.

Specifications: • Housing: ABS plastic with lockable hinged cover • Color: Light grey RAL 7035 • Dimensions (L x W x H): 20mm x 110mm x 60mm • Weight: 450g • Protection Class: IP 54 • Power Supply: 12VDC ~ 24VDC ±5% • Power Consumption: Maximum 13VA • Operating Frequency: 13.56MHz • Transmitting Power: 1W/1.75W • Antenna Connection: SMA socket (50Ω) • Outputs: 2 Optocoupler - 24VDC/30mA (galvanically isolated), and 1 Relay - 24VDC/2A • Inputs: 2 Optocouplers - Maximum 24VDC/20mA • Interfaces: RS232 and WLAN (802.11b) • Operation Modes: ISO Host Protocol, Buffered Read Mode (BRM), Scan Mode • Supported transponders: ISO 15693 and ISO 18000-3, EPC (optional) • FLASH: Software Update via interface possible • Signal Generator: 5 LED • Temperature Range: Operation: -20°C ~ 60°C, Storage: -25°C ~ 85°C • Vibration: EN60068-2-6 10Hz ~ 150Hz; 0.075mm/1g • Shock: EN60068-2-27 Acceleration: 30g • RF Approval: Europe: EN300 330, USA: FCC 47 CFR Part 15 • EMC: EN 301 489 • Safety: Low Voltage: EN 60950, Human Exposure: EN 50364

629-1054-ND	(FEIG ELECTRONICS # 2633.000.00) MR Wireless Reader	**$1723.64**

Antennas

ID ISC.ANT800/600-DA

As a single loop antenna with tuning circuitry with a transmitting power of maximum 4W (Europe), a maximum reading range of 80cm is possible. Gate configurations of 2, 4 or 6 antennas ID ISC.ANT800/600-DA enable even 200cm, using a parallel transponder orientation. The antenna consists of the electrical antenna conductor, housing and the tuning circuitry ID ISC.DAT (Tuner) and is factory tuned on a wood base to an impedance of 50Ω. After installing in changed ambient conditions, the antenna can be tuned using the corresponding commands.

Specifications: • Housing: Plastic ABS • Dimensions (W x H x D): 852mm x 620mm x 40mm +/-1mm • Color: Black • Weight Approximately 2.5kg • Protection Class: IP 65 • Safety: USA, UL 1950 • Maximum Transmitting Power: 8W • Maximum Permitted Transmitting Power: EU (EN 300 330): 4W; USA (FCC Part 15): 0.25W • Operating Frequency: 13.56MHz • Reading Range: 80cm • Antenna Connection: SMA plug (50Ω) • Antenna Connection Cable: RG 58, 50Ω, 3.6m • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1008-ND	(FEIG ELECTRONICS # 1451.008.00)	**$1616.10**

(Continued)

OBID i-scan FEIG ELECTRONICS Antennas *(Cont.)*

ID ISC.ANT.U250/250-FCC

The UHF antenna ID ISC.ANT.U250/250-FCC are circular polarized antenna for operating frequencies in the UHF range 902-928MHz (FCC antenna). Transponders can be identified in two different orientations (E plane / H plane). **Specifications:** • Housing: Plastic • Dimensions (W x H x D): 260mm x 260mm x 56mm • Weight: Approximately 1050g • Color: White (similar RAL9018) • Protection Class: IP 54 • Operating Frequency: FCC antenna, 902MHz ~ 928MHz • Gain: FCC antenna, 8.7dBic @ 915MHz • 3dB Beam Width: E plain: 65°; H plain: 65° • Polarization: Circular • VSWR: <1.5:1 • Antenna Connection: SMA socket (50Ω) • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 85°C

629-1009-ND (FEIG ELECTRONICS # 1451.009.02).. **$339.40**

ID ISC.ANT340/240

OBID i-scan mid range antennas are operated in combination with mid range reader ID ISC.MR100-x. Depending on the application, pad or industrial antennas may be used. The elegant Pad Antenna ID ISC. ANT340/240 is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications. For applications in rough industrial environments with a required range of up to 40cm, we recommend antenna type ID ISC.ANT300/300. **Specifications:** • Housing: Plastic ABS • Color: Grey-white • Dimensions (W x H x D): 337mm x 237mm x 8.3mm • Weight: 530g • Protection Class: IP 40 • Admissible Transmitting Power: 1W • Reading Distance: Up to 30cm • Antenna Connection: SMA - plug (50Ω) • Antenna Cable: RG174 (2.0m) • Operating Frequency: 13.56MHz • Temperature Range: Operating: 0°C ~ 55°C; Storage: -25°C ~ 85°C

629-1025-ND (FEIG ELECTRONICS # 1663.000.00).. **$256.42**

ID ISC.ANT40/30-A

ID ISC.ANT40/30-A • External 50Ω antenna for ID ISC.M02 • Dimensions: 40mm x 30mm • Cable: Coax cable approximately 50cm in length

629-1038-ND (FEIG ELECTRONICS # 1967.000.00).. **$75.83**

Accessories

Battery Charger

2560.00.00 is a specific for PRH101-B readers only. This unit is suitable to charge the four AA NiCd or NiMH needed to operate the PRH-1001-B. Capacity range of 800mAh to 7200mAh. **Features:** • Mains indicator • Charging indicator • Trickle charge indicator • Wrong polarity protection • Discharge indicator • Dimensions (L x W x H) 118mm x 62mm x 48mm • CE, CSA, GS and SAA

629-1052-ND (FEIG ELECTRONICS # 2650.000.00).. **$122.66**

ID ISC.DAT-A

With the help of these tuning boards, you can realize your own individual antenna arrays, combined with our i-scan Long Range readers. The dynamic antenna tuner ID ISC.DAT-A is designed for automatic calibrating and tuning of RFID antennas with an operating frequency of 13.56MHz. The parameters for setting the antenna are measured on the board under operating conditions. The antenna tuner is also able to disconnect the antenna circuit through an electronic switch up to a certain power. The ID ISC.DAT is driven over the HF line. The antenna tuner thus functions as a so-called function unit. Measured parameters or the calibration status can be sent to the host over the HF line. Dynamic Antenna Tuning Board. **Specifications:** • Dimensions (W x H x D): 118mm x 90mm x 19mm • Weight: Approximately 100g • Supply Voltage: 7 ~ 12VDC • Current Consumption: Maximum 150mA (DC) • Operating Frequency: 13.56MHz • Maximum Transmitting Power: 10W • Antenna Switch: Electronic Switch • Antenna Connection: Cable Terminals d = 2 ~ 9mm • RF Connection: SMA Male (50Ω) • Triggering: Reader, Communication via RF-Connection • Outputs: 3 x Open Collector: 5VDC/maximum 15mA • Signal Indicator: 1 x „RUN"-LED • Interface: RS232 TTL (for Firmware Update) • Carrier Frequency: 13.56MHz • Impedance: 50Ω • Tuning Range Inductance: 0.7 ~ 2.5µH • Quality: 10 ~ 50 • Temperature Range: Operating: -25°C ~ 75°C; Storage: -40°C ~ 80°C

629-1006-ND (FEIG ELECTRONICS # 1269.005.01).. **$996.30**

ID ISC.ANT.PS-B

ID ISC.ANT.PS-B is a 3dB power splitter with galvanic isolation between the input and the two outputs. At the operating frequency of 13.56MHz the impedance on all in and outputs is calibrated to 50Ω. Both outputs are internally wired in parallel. The galvanic isolation can be enabled by means of two jumpers. The device is designed for installation indoors or outdoors. The connection cable from the Reader to the ID ISC.ANT.PS-B is 3.6m in length. This extends the overall cable length from Reader to antenna to a total of 7.20m. **Specifications:** • Housing: Plastic Polycarbonate (light white) • Dimensions (W x H x D): 130mm x 94mm x 57mm ±2mm • Weight: Approximately 275g • Enclosure Rating: IP 65 • Cable Fittings: 4 x Cable Fitting M16 x 1.5 • Voltage Supply: 12 ~ 24VDC (optional) • Power Consumption: Maximum 4W • Operating Frequency: 13.56MHz • RF Connections: 1 x Input and 2 x Output: SMA Jack (50Ω) (Maximum tightening torque: 0.45Nm) • SWR: Maximum 1.2:1 (50Ω) • Input Loss: Maximum 0.6dB • Temperature Range: Operating: -25°C ~ 55°C; Storage: -40°C ~ 85°C • Flame Proof: UL1950, HB without Cable

629-1005-ND (FEIG ELECTRONICS # 1269.003.01).. **$418.02**

ID ISC.ANT.MUX

The 8 times Multiplexer ID ISC.ANT.MUX facilitates switching between RFID antennas with an operating frequency of 13.56MHz. With one Multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader. Any of the eight Multiplexers outputs can be assigned to both inputs by jumper adjustment. The Multiplexer is controlled either via a digital input or the antenna cable connected with the reader.
Specifications: • Dimensions (L x W x H): 182mm x 110mm x 90mm • Weight: Approximately 550g • Protection Class: IP 65 • Grommet: 12x screwed cable gland M16 x 1.5 • Power Supply: 12-24VDC • Power Consumption: Maximum 4W • Operating Frequency: 13.56MHz • Absorbability per Channel: Maximum 0.5dB • Maximum Allowed Switching Capacity: 10W • RF Connections: 2x Input: SMA Socket (50Ω); 8x Output: SMA Socket (50Ω) • RF Switch: Switching rate: Electronic switch, <1ms • Triggering: Reader: via RF input 1; External pulse generator: digital input • Digital Inputs: 1 Opto coupler input, maximum 24VDC/20mA • Display: 1x LED per channel, 3x LED (Run/HF/communication) • Temperature Range: Operating: -25°C ~ 65°C; Storage: -40°C ~ 80°C

629-1040-ND (FEIG ELECTRONICS # 1977.000.01).. **$1282.74**

ISC.LR.I/O-A

Specifications: • Dimensions: (W x H x D) 40mm x 100mm x 10mm • Weight: Approximately 40g • Relays: 3x normally open (contact load capacity: 24VAC/DC 2A) • Inputs: 3 optocoupler (Maximum 24VDC / 20mA) • Temperature Range: Operating: -25°C ~ 60°C; Storage: -40°C ~ 85°C • Relative Humidity: 95% (non-condensing) Items: • 1 – ID ISC.LR.I/O-A Extension Board • 2 – Hex standoffs M3 x 15 metal • 1 – Hex standoffs M3 x 15 plastic • 1 – Recessed raised fillister head screw M3 x 6 • 1 – Cable 3-conductor (1:1) • 1 – Cable 2-conductor (2 to 5 conductor) • 1 – Ribbon cable 20-conductor • 10 – Jumpers

629-1055-ND (FEIG ELECTRONICS # 2673.000.01).. **$129.05**

ID CAB.A-A

The ID CAB.A-A is a short adapter cable that converts a 10-pin molex style connector through a ribbon cable to a 9-pin Sub D female connector. It is used with ISC.M02 and CPR.M02 reader modules

629-1047-ND (FEIG ELECTRONICS # 2259.000.00).. **$20.87**

ID CAB.NET.24V-B-US

This ID CAB.NET.24V-B-US is an AC power cord that is used with the ID NET.24V-B power supply unit. It uses a U.S. style, AC male plug on one end and a computer style female connector to the power supply unit on the other.

629-1051-ND (FEIG ELECTRONICS # 2560.000.00).. **$9.87**

ID CAB.RS-A

The ID CAB.RS-A is a communication cable for RS-232/RS-485 interfaces. It is used with ID ISC.MR101-A, ID ISC.PR101-A, ID ISC.MR101.M-A and ID ISC.PR101.M-A reader products. The cable uses a 9-pin Sub D male on one end and a 9-pin Sub D female with a DC jack spliced on the other end.

629-1028-ND (FEIG ELECTRONICS # 1690.000.00).. **$27.89**

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A is a coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.ANT.U250/250 UHF antennas.

629-1023-ND (FEIG ELECTRONICS # 1654.002.00) 2 Meter Cable........................ **$78.06**
629-1024-ND (FEIG ELECTRONICS # 1654.003.00) 6 Meter Cable........................ **$95.26**

ID ISC.ANT.C-A

ID ISC.ANT.C-A is a 1/4 Lambda @ 13.56MHz, 3.6 meter, RG58 C/U, coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.DAT-A Dynamic Antenna Tuning Boards.

629-1042-ND (FEIG ELECTRONICS # 2096.000.00).. **$63.40**

ID ISC.ANT.EC

ID ISC.ANT.EC is a 1/2 Lambda, 7.2 meter, RG58 C/U, coaxial cable with one male SMA style plug connector on one end and one SMA female in-line splice connector on the other. The cable is used as an antenna extension cable when used with ID ISC.DAT-A Dynamic Antenna Tuning Boards, ID ISC.ANT300/300 antenna, ID ISC.ANT800/600-DA antenna, and ID ISC.ANT1400/760-A/B/C gate antennas.

629-1021-ND (FEIG ELECTRONICS # 1654.000.00).. **$66.76**

ID ISC.MS.MR/PR-A

ID ISC.MS.MR/PR-A is a mounting set that attach to the back of our mid-range (MR) or proximity range (PR) readers.

629-1029-ND (FEIG ELECTRONICS # 1691.000.01).. **$36.16**

FlexiPanel

EasyBee™ Transceivers

EasyBee is an IEEE 802.15.4 compliant RF transceiver. It enables designers to easily add ZigBee / IEEE 802.15.4 wireless capability to their products without the need for RF or antenna design expertise. The module contains all RF circuitry, including integral antenna and controller in a simple-to-use, plug-in or surface mount module. A 4-wire SPI port interfaces to a baseband microcontroller. The PHY (Physical) layer includes an impedance matched balun and integral antenna. The MAC (Media Access Control) layer includes CRC-16 generation, clear channel assessment, signal energy detection, security, encryption and authentication. It is a fully capable device and a ZigBee networking layer is not required for point-to-point communication. This module is an application-ready solution for fast-to-market ZigBee and IEEE 802.15.4 communications, providing the development engineer unlimited choice of host controller and stack firmware provider **Features**: • Free space range approximately 120m • FCC/CE compliant • Integral antenna • Output power 1mW / 0dBm • Consumes just 20mA (Rx), 18mA (Tx) • 2.1V ~ 3.6V supply

658-1000-5-ND (FlexiPanel # EASYBEE-DIL).. **$32.06**
658-1001-5-ND (FlexiPanel # EASYBEE-S0).. **$20.41**

Pixie™ Evaluation Kit

The Pixie Evaluation Kit is designed for research and development with FlexiPanel Ltd's Pixie ZigBee modules. **Features:** • 4 switch inputs • 4 pushbutton inputs • 8 LED outputs • 1 trimmer input • ICD2 programming socket • Solder pads for custom development

658-1012-ND (FlexiPanel # EVAL-PIXIE).. **$356.25**

Pixie™ Transceivers

Pixie provides a complete ZigBee solution for OEMs, integrating IEEE 802.15.4 2.4GHz PHY/MAC layers with Microchip Technology's NWK/APL/ZDO layers. It provides a path for extremely rapid migration from Microchip's PICDEM Z ZigBee development environment to market-ready product. It is capable of full function device (FFD) operation and is suitable for router and coordinator nodes. The lower cost Pixie Lite version is used for reduced function devices, e.g. endpoints, with 2 fewer I/O lines and being 3mm more compact.

Features:

• Free space range approximately 120m • FCC/CE/IC compliant • MAC address allocation • Signature G antenna, low "hand effect" design • Output power 1mW / 0dBm • Consumes less than 25mA when active, 2µA in sleep mode • 15 general I/O lines, 10-bit A/D, serial UART, 4 Interrupts, counter input • Master SPI • 2.1V ~ 3.6V supply

658-1002-5-ND (FlexiPanel # PIXIE-DIL-PXSC).. **$52.56**
658-1003-5-ND (FlexiPanel # PIXIE-DIL-PXSR).. **$52.56**
658-1004-5-ND (FlexiPanel # PIXIE-SO-PXSC).. **$40.01**
658-1005-5-ND (FlexiPanel # PIXIE-SO-PXSR).. **$40.01**
658-1006-5-ND (FlexiPanel # PIXLITE-DIL-PLFE).. **$51.27**
658-1007-5-ND (FlexiPanel # PIXLITE-DIL-PLSE).. **$51.27**
658-1008-5-ND (FlexiPanel # PIXLITE-SO-PLFE).. **$36.83**
658-1009-5-ND (FlexiPanel # PIXLITE-SO-PLSE).. **$36.83**

FlexiPanel

NEW! UZBee Plus™ Transceiver

UZBee Plus is a Pixie/IEEE 802.15.4 radio with USB interface, housed in a 'dongle' style enclosure. **Features**: • 2.4GHz IEEE 802.15.4 RF module • PIC18LF4620 microcontroller • FCC/CE compliant • Signature G antenna, free-space range 120m, compact, low 'hand-effect' design • 56mm x 20mm x 9mm

658-1048-ND (FlexiPanel # UZBEEPLUS) **$51.27**

LinkMatik 2.0™ Transceivers

LinkMatik 2.0 is a serial/PCM audio to Bluetooth data link. It can be controlled from a host controller using simple commands. It can also operate without a host controller for point-to-point serial connections. Auto-Slave and Auto-Master modes allow LinkMatik 2.0 to operate a slave, master or wedded pair. It is shipped in Auto-Slave mode. The module can be interfaced to many standard Bluetooth devices, e.g. Laptop computers, PDA's, Mobile phones etc. PCM (Pulse Code Modulation) audio connections provide an audio interface when used with a suitable audio codec. **Features:** • Auto-Slave and Auto-Master configurations • Connects with up to 4 slaves • PCM audio profile (command mode only) • Bluetooth 2.0 certified • FCC/CE certified • Low power: -25mA transmitting, 370µA sleep • Authentication and encryption • Device discovery • Class I Bluetooth radio, 100m range • 3.3V ~ 5V supply (DIL), or 3.3V supply (SO)

658-1013-5-ND (FlexiPanel # LM20-DIL) **$76.00**
658-1014-5-ND (FlexiPanel # LM20-SO) **$51.27**

Toothpick™

Toothpick is a PIC microcontroller and BlueMatik radio combination, preloaded with Toothpick Services firmware providing FlexiPanel user interface server, wireless field programming and Toothpick Slave for optional external host control. **Features:** • FlexiPanel user interface server – creates user interfaces on computers, PDAs, cell phones with no development needed on remote devices • Wireless field programming lets developers distribute firmware upgrades electronically • System services including: Bluetooth communications, interrupt and memory management, sleep-safe real time clock with daylight savings time/day-of-week calculator

658-1015-5-ND (FlexiPanel # TP20-DIL) **$114.00**

Bluetooth® Evaluation Board

The Bluetooth Evaluation Board is designed to evaluate the following products from FlexiPanel LTD: • Toothpick • LinkMatik • BlueMatik
This Evaluation board can be used during development as a reliable and tested device.

Features:

• Sockets for all modules • Power regulator, switches and LEDs • Jumper switches for board configuration • RS232 serial port and TTL to RS232 converter • Toothpick ICD2 programming socket • 24C256 I2C memory chip • This board can accept any (reasonable low ripple) unregulated 5V ~ 12V supply, 2.5mm Center Positive • One module can be evaluated at a time • Can be used with Flexipanel Device Tutorials

658-1018-ND (FlexiPanel # EVAL-BT) **$117.80**

B

TeaClippers™ MCU Programmers

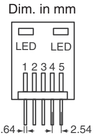

The TeaClippers are portable, target-powered firmware programmers for Microchip's PIC Microcontrollers. Limited Firmware uploads can be enabled for firmware resale. Encrypted versions are available to protect content and device verification prior to and during programming. The Crypto version supports any microcontroller that can self-write to its own memory. Unique serial numbers and license codes can be written to each PIC Programmed. The TeaClipper USB Adapter is required to load the TeaClipper's with Firmware.

Description	Digi-Key Part No.	Price Each	Flexipanel Part No.
TeaClipper PIC			
High or Low Voltage Programming Clip	658-1019-5-ND	37.80	TEACL-PIC-HV
Evaluation Kits / Accessories			
USB Adapter for TeaClipper	658-1026-5-ND	40.50	TEACL-USB

FOTOFAB

RF Shields

Fotofab provides precision metal shields using a chemical etching process. Shields come in several standard sizes, and are designed to be formed by hand without the need for tooling. Prototyping kits are available in a standard size and small size kit, depending on your size requirements. Shielding kits provide different height options on each shield, from 0.25, 0.5 or 0.75 inches. Dimpled Shields (DMP) are available with a removable lid to access the components inside for testing/proto work, without having to desolder the shield. **Features**: • Shields come in several standard sizes • CDA 26000 1/2 hard copper alloy material provides outstanding electrical characteristics • Dimensions are outside (formed) dimensions

Shield Height (Inches)	Dimensions (L x W) (Inches)	Digi-Key Part No.	Price Each 1	25	100	Fotofab Part No.
0.25	0.5 x 0.5	655-1000-ND	1.49	1.20	1.05	0.5 X 0.5 X 0.25
0.25	0.5 x 1.0	655-1001-ND	2.08	1.68	1.51	0.5 X 1.0 X 0.25
0.25	0.75 x 1.125	655-1002-ND	2.91	2.35	2.11	0.75 X 1.125 X 0.25
0.25	0.75 x 1.5	655-1003-ND	3.28	2.64	2.41	0.75 X 1.50 X 0.25
0.25	1.0 x 1.0	655-1004-ND	3.02	2.44	2.20	1.0 X 1.0 X 0.25
0.5	1.5 x 2.25	655-1005-ND	10.42	8.55	7.71	1.5 X 2.25 X 0.50
0.25	1.5 x 3.0	655-1006-ND	7.81	6.41	5.79	1.5 X 3.0 X 0.25
0.5	2.0 x 3.0	655-1007-ND	13.75	11.57	10.63	2.0 X 3.0 X 0.50
0.25	0.75 x 0.75	655-1008-ND	2.24	1.81	1.63	0.75 X 0.75 X 0.25
0.25	1.0 x 1.5	655-1009-ND	3.82	3.07	2.80	1.0 X 1.5 X .25
0.25	1.0 x 2.0	655-1010-ND	4.77	3.84	3.50	1.0 X 2.0 X .25

Shield Height (Inches)	Dimensions (L x W) (Inches)	Digi-Key Part No.	Price Each 1	25	100	Fotofab Part No.
0.25	1.5 x 1.5	655-1011-ND	5.25	4.22	3.85	1.5 X 1.5 X .25
0.5	1.0 x 1.5	655-1012-ND	6.56	5.28	4.81	1.0 X 1.5 X .5
0.25	1.0 x 1.5	655-1015-ND‡	16.67	14.02	12.89	DMP-1.0 X 1.5 X 0.25
0.25	1.0 x 1.0	655-1016-ND‡	15.18	12.77	11.73	DMP-1.0 X 1.0 X 0.25
0.25	0.5 x 0.5	655-1017-ND‡	12.06	9.90	8.93	DMP-0.5 X 0.5 X 0.25
0.25	0.5 x 1.0	655-1018-ND‡	14.00	11.78	10.82	DMP-0.5 X 1.0 X 0.25
Shielding Kits						
Multi Height Prototype Kit – 29 Large Shields		655-1013-ND	246.50/1			RF PROTOTYPE KIT- LARGE
Multi Height Prototype Kit – 46 Small Shields		655-1014-ND	246.50/1			RF PROTOTYPE KIT- SMALL

‡ Removable Top Shield

FREE2MOVE

Bluetooth® Modules and RFID Reader

Digi-Reel®

F2M01C1 – These Class 1 (up to +14dBm transmit power) serial port plug modules allow for rapid connection/configuration in serial cable replacement applications. Configuration is simple via command interface. Implement Serial Port Profile and Generic Access Profile.

F2M01SXA – Implements a transparent link via Bluetooth up to 500 meters.

F2M03AC2 – These class 2 devices are small (24mm x 13mm) but include a complete audio codec and Analog and Digital (PCM) interface for up to 3 simultaneous voice channels. Available with either Serial Port or Headset Profile.

F2M03GLA – These Class 1 (modules can be put into lower power states to comply with Class 2, Class 3 power limitations) Come with either Serial Port Profile (SPP) or HCI only versions for use with a host application processor (such as a PC). These modules provide Bluetooth 2.0 +EDR capability for increased data rates.

F2M03GX(A) – These Class 1 modules come with either SPP or HCI. GX modules provide antenna connector. GXA modules have on-board ceramic antenna. Provides Bluetooth 2.0 +EDR capability.

F2M03MLA/F2M03ALA – These modules provide a complete fully qualified Serial Port Module (ALA) or Bluetooth headset plug-in modules which includes 16-bit Stereo Codec and Bluetooth Stack complete with A2DP, handsfree, headset, SPP, and AVRCP profiles.

FSA901-ABOA – ISO 18000-6c reader with Bluetooth interface and a built-in rechargeable battery. Rugged enclosure, IP54, drop tested at 1 metre.

Max Data Rate (Kbps)	Bluetooth Device Class	Connection	Supply Voltage (V)	Bluetooth Profile	Antenna	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Free2Move Part No.
							1	25	50		Qty.	Pricing	
115.2	1	RS-232	4.0 ~ 5.0	Serial Port	Ceramic on Board	647-1000-NDΔ	111.63	—	—	—	—	—	F2M01C1-100
115.2	1	RS-232	5.0 ~ 30	Serial Port	Ceramic on Board	647-1029-NDΔ	104.63	—	—	—	—	—	F2M01SXA-S01-C
115.2	1	RS-232	5.0 ~ 30	Serial Port	Ceramic on Board	647-1030-ND	97.88	—	—	—	—	—	F2M01SXA-S01-B
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	Ceramic on Board	647-1009-1-ND	43.17	37.72	37.04	647-1009-2-ND	500	15109.00	F2M03GLA-S01
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	U.FL Connector	647-1011-1-ND	49.93	43.63	42.84	647-1011-2-ND	500	17476.00	F2M03GX-S01
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	Ceramic on Board	647-1013-1-ND	49.93	43.63	42.84	647-1013-2-ND	500	17476.00	F2M03GXA-S01
2000	1	Serial Interface	3.1 ~ 3.6	Headset	Ceramic on Board	647-1015-1-ND	53.81	47.48	46.85	647-1015-2-ND	500	20572.50	F2M03MLA-S03
3000	2	Serial Interface	2.2 ~ 4.2	Serial Port	Ceramic on Board	647-1026-1-ND	55.97	48.91	48.02	647-1026-2-ND	500	19591.00	F2M03ALA-S01
1500	1/2/3	Serial Interface	3.1 ~ 3.6	Headset	Ceramic on Board	647-1028-1-ND	53.81	47.48	46.85	647-1028-2-ND	500	20572.50	F2M03MLA-S01-R1A
Development Kits and OEM Boards													
Single Module Eval. Kit for F2M03AC2, Includes Cable and Software, 1 Module on Dev. Board						647-1005-ND	207.50	—	—	—	—	—	F2M03AC2-KIT-1
Single Module Evaluation Kit for G Module, No OEM Module						647-1020-ND	223.75	—	—	—	—	—	F2M03G-KIT-1
Single Module Evaluation Kit for M Module, No OEM Module						647-1024-ND	272.50	—	—	—	—	—	F2M03M-KIT-1
OEM Board with F2M03GX-S01 Module						647-1017-ND	62.51	—	—	—	—	—	F2M02GX-S01
OEM Board with F2M03ALA-S01 Module						647-1034-ND ***NEW!***	53.96	—	—	—	—	—	F2M02ALA-S01-K
OEM Board with F2M03GLA-S01 Module for Development Kit F2M03G-KIT-1						647-1021-ND	57.23	—	—	—	—	—	F2M02GLA-S01-K
OEM Board with F2M03MLA-S03 Module for Development Kit F2M03M-KIT-1						647-1025-ND	70.25	—	—	—	—	—	F2M02MLA-S03-K
NEW! RFID Reader Module NEW!													
Gemia™ Handheld Reader Module						647-1031-ND	846.30	813.75	—	—	—	—	FSA901-ABOA
NEW! RFID Accessories NEW!													
U-Shaped Clip for Gemia™						647-1032-ND	9.63	7.90	7.70	—	—	—	FSA-901-001
Mini USB AC Adapter for Gemia™						647-1033-ND	40.90	35.38	34.28	—	—	—	FA-00-VUMM00A

Δ Includes CD Software

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

freescale™
semiconductor

RF/ZigBee™ Transceivers

Digi-Reel®

Designed for Low-Power, Low data rate applications, Freescale's offering of RF/ZigBee Transceivers covers any need that might arise in the development of your design. Freescale has solutions for both proprietary and ZigBee networks. Single-chip transceivers eliminate the need for a lot of external components. System in a package solutions integrates an 8-bit micro to further lower the cost of implementation.

Protocol	Maximum Data Rate (kbps)	Supply Voltage (V)	Supply current @ 1% Duty Cycle (Typical mA)	Frequency (GHz)	Tx/Rx Switch	Package Type	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
2.4GHz Transceivers											
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FCR2CT-ND◆†	5.40	4.86	4.41	MC13192FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FC-ND◆	4.24	3.79	3.41	MC13191FC
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13190FCCT-ND	4.96	4.47	4.05	MC13190FCR2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13213-ND◆	6.84	6.46	6.08	MC13213
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13213R2TR-ND◆‡		7599.98/2,000		MC13213R2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13212R2TR-ND◆‡		6960.02/2,000		MC13212R2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13202FC-ND◆	4.36	4.12	3.88	MC13202FC
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13202FCR2TR-ND◆‡		6050.02/2,500		MC13202FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13201FC-ND◆	3.71	3.51	3.30	MC13201FC
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	29 Tx / 21 Rx	2.4 ~ 2.5	Yes	145-LGA	MC13224V-ND◆	8.75	8.27	7.78	MC13224V
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.6	29 Tx / 21 Rx	2.4	Yes	145-LGA	MC13224VR2CT-ND◆† ***NEW!***	9.46	8.45	7.95	MC13224VR2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.6	29 Tx / 21 Rx	2.4	Yes	145-LGA	MC13224VR2TR-ND◆‡ ***NEW!***		9720.00/2,000		MC13224VR2
Development Tools											
Evaluation Kit for MC1320x							1320X-QE-DSK-BDM-ND◆	399.00	—	—	1320X-QE-DSK-BDM
Development Kit for MC1320x							1320X-QE128-DSK-ND◆	349.00	—	—	1320X-QE128-DSK
Development Kit for MC1321x, with USB Multilink							1321XDSK-BDM-ND	349.00	—	—	1321XDSK-BDM
Evaluation Kit for MC1321x							1321XEVK-ND	1749.00	—	—	1321XEVK
Network Starter Kit for MC1321x							1321XNSK-ND	499.00	—	—	1321XNSK
Network Starter Kit for MC1321x, with USB Multilink							1321XNSK-BDM-ND	549.00	—	—	1321XNSK-BDM
Development Starter Kit for 1322x							1322XDSK-DBG-ND◆	379.00	—	—	1322XDSK-DBG
Network Starter Kit for 1322x							1322XNSK-DBG-ND◆	579.00	—	—	1322XNSK-DBG
Starter Kit for 1332x							1322XNSK-IAR-ND◆ ***NEW!***	2599.00	—	—	1322XNSK-IAR
USB Kit for 1322x							1322XUSB-ND◆	79.00	—	—	1322XUSB
Starter Kit for MMA7660FC							RD3965MMA7660FC-ND◆ ***NEW!***	99.00	—	—	RD3965MMA7660FC

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

RF High Power LDMOS Transistors

Digi-Reel®

Frequency Band (MHz)	P1dB Typical (W)	VDD (V)	Gain dB@MHz	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty	Pricing
135 ~ 175	8	7.5	13/175	PLD-1.5	MRF1511NT1CT-ND◆	8.88	7.93	7.45	MRF1511NT1TR-ND◆	1,000	4201.20
400 ~ 520	3	12.5	15/520	PLD-1.5	MRF1513NT1CT-ND◆	7.67	6.85	6.44	MRF1513NT1TR-ND◆	1,000	3628.80
430 ~ 520	8	7.5	14/520	PLD-1.5	MRF1517NT1CT-ND◆	8.26	7.38	6.94	MRF1517NT1TR-ND◆	1,000	3898.81
400 ~ 520	8	12.5	13/520	PLD-1.5	MRF1518NT1CT-ND◆	8.79	7.85	7.38	MRF1518NT1TR-ND◆	1,000	4157.99
1930 ~ 1990	12	28	14/1990	TO-272	MRF5S19060NBR1CT-ND	44.40	42.07	38.79	—	—	—
869 ~ 960	100	26	17.5/960	TO-270	MRF5S9101NR1CT-ND◆	41.78	39.58	36.51	MRF5S9101NR1TR-ND◆	500	15706.00
960 ~ 1400	10	50	25/1090	PLD-1.5	MRF6V10010NR4CT-ND◆	68.36	61.85	56.97	MRF6V10010NR4TR-ND◆	100	4309.20
10 ~ 450	10	50	23.9/220	TO-272-2	MRF6V2010NBR5CT-ND◆	24.93	22.54	19.18	MRF6V2010NBR5TR-ND◆	50	635.04
10 ~ 600	300	50	25.5/220	TO-272-4	MRF6V2300NBR5CT-ND◆	85.70	77.54	71.42	MRF6V2300NBR5TR-ND◆	50	2701.07
10 ~ 600	300	50	22/450	TO-272-4	MRF6V4300NBR5CT-ND◆	90.17	81.59	75.15	MRF6V4300NBR5TR-ND◆	50	2843.10
10 ~ 150	1000	50	26/130	NI-1230	MRF6VP11KHR5CT-ND◆	193.49	187.25	181.01	MRF6VP11KHR5TR-ND◆	50	8321.92
10 ~ 235	1000	50	24/225	NI-1230	MRF6VP21KHR5CT-ND◆	401.64	388.68	375.73	MRF6VP21KHR5TR-ND◆	50	17274.49
10 ~ 250	600	50	25/225	NI-1230	MRF6VP2600HR5CT-ND◆	151.36	146.48	141.60	MRF6VP2600HR5TR-ND◆	50	6509.69
470 ~ 860	450	50	22.5/860	NI-1230	MRF6VP3450HR5CT-ND◆	189.66	183.54	177.43	MRF6VP3450HR5TR-ND◆	50	8099.44
880 ~ 960	45	28	22.1/880	TO-270-2	MRFE6S9045NR1CT-ND◆	28.03	25.34	21.56	MRFE6S9045NR1TR-ND◆	500	7138.79
880 ~ 960	60	28	21.1/880	TO-270-2	MRFE6S9060NR1CT-ND◆	35.75	32.32	27.50	MRFE6S9060NR1TR-ND◆	500	9104.43
1 ~ 2000	4	28	18/1960	PLD-1.5	MW6S004NT1CT-ND◆	10.98	9.80	9.22	MW6S004NT1TR-ND◆	1,000	5184.00

◆ ***RoHS Compliant***

General Purpose RF Amplifier

Digi-Reel® RoHS COMPLIANT

Frequency Band (MHz)	Typical P1dB (dBm)	Gain dB@MHz	VDD (V)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 1,000	Freescale Part No.
0 ~ 6000	16	19/900	5	SOT-89	MMG3007NT1CT-ND	1.51	1.35	1.27	MMG3007NT1TR-ND	720.00	MMG3007NT1
40 ~ 4000	25	19.5/900	5	SOT-89	MMG3014NT1CT-ND	2.27	2.03	1.91	MMG3014NT1TR-ND	1080.00	MMG3014NT1
0 ~ 6000	20.5	19.3/900	5	SOT-89	MMG3H21NT1CT-ND	1.85	1.65	1.56	MMG3H21NT1TR-ND	870.00	MMG3H21NT1
250 ~ 4000	22.5	12/900	5	SOT-89	MMH3111NT1CT-ND	4.93	4.40	4.14	MMH3111NT1TR-ND	2322.00	MMG3111NT1

RF GaAS PHEMT Transistors

Digi-Reel® RoHS COMPLIANT

Frequency Maximum (GHz)	POUT Typical (W)	VDD (V)	Gain dB/MHz	Package	Digi-Key Part No.	Cut Tape Price Each 1	10
5.8	9	12	10/3550	NI-360HF	MRFG35010NR5CT-ND	33.18	31.44
5.8	10	12	10/3550	1.5-PLD	MRFG35010ANR5CT-ND	31.49	29.85

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Honeywell RF Switches, Attenuators and Evaluation Boards

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Honeywell Part No.
31.5dB, DC-4GHz, 6-Bit Parallel Digital Attenuator	24-VQFN	342-1048-1-ND	17.00	7.00	6.00	342-1048-2-ND	3400.00/M	HRF-AT4610-TR
31.5dB, DC-4GHz, 6-Bit Serial Digital Attenuator	16-VQFN	342-1050-1-ND	17.00	7.00	6.00	342-1050-2-ND	3400.00/M	HRF-AT4611-GR-TR
SP6T Absorptive RF Switch	24-VQFN	342-1044-1-ND	17.00	7.00	6.00	342-1044-2-ND	3400.00/M	HRF-SW1030-TR
Evaluation Board for HRF-AT4610		342-1049-ND	125.00	—	—	—	—	HRF-AT4610-E
Evaluation Board for HRF-AT4611		342-1051-ND	125.00	—	—	—	—	HRF-AT4611-E
Evaluation Board for HRF-SW1030		342-1045-ND	125.00	—	—	—	—	HRF-SW1030-E

Infineon Diodes and Transistors

Silicon RF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
SOT-23	NPN	15	20	45	100	BFR92PE6327INCT-ND	.46	3.65	25.00	—	—	—	BFR 92P E6327
	NPN	12	20	20	100	BFR181E6327INCT-ND	.59	4.62	31.63	BFR181E6327INTR-ND	3,000	134.00/M	BFR 181 E6327
	NPN	12	20	35	100	BFR182E6327INCT-ND	.58	4.57	31.28	BFR182E6327INTR-ND	3,000	132.00/M	BFR 182 E6327
	NPN	12	20	80	100	BFR193E6327INCT-ND	.50	3.95	27.03	BFR193E6327INTR-ND	3,000	114.00/M	BFR 193 E6327
SOT-323	NPN	12	20	20	100	BFR181WE6327INCT-ND	.65	5.09	34.83	BFR181WE6327INTR-ND	3,000	147.00/M	BFR 181W E6327
	NPN	12	20	35	100	BFR182WE6327INCT-ND	.65	5.09	34.83	BFR182WE6327INTR-ND	3,000	147.00/M	BFR 182W E6327
	NPN	12	20	65	100	BFR183WE6327INCT-ND	.52	4.18	31.35	BFR183WE6327INTR-ND	3,000	147.00/M	BFR 183W E6327
	NPN	12	20	80	100	BFR193WE6327INCT-ND	.55	4.31	29.48	BFR193WE6327INTR-ND	3,000	125.00/M	BFR 193W E6327
SOT-143	NPN	12	20	35	100	BFP182E7764INCT-ND	.55	4.31	29.48	BFP182E7764INTR-ND	3,000	125.00/M	BFP 182 E7764
	NPN	12	20	65	100	BFP183E7764INCT-ND	.48	3.76	25.74	BFP183E7764INTR-ND	3,000	109.00/M	BFP 183 E7764
	NPN	12	20	80	100	BFP193E6327INCT-ND	.52	4.16	31.19	BFP193E6327INTR-ND	3,000	146.00/M	BFP 193 E6327
	NPN	12	20	150	100	BFP196E6327INCT-ND	.62	4.99	37.42	BFP196E6327INTR-ND	3,000	176.00/M	BFP 196 E6327
SOT-343	NPN	2.3	7.5	80	180	BFP620E7764INCT-ND	1.14	10.16	80.70	BFP620E7764INTR-ND	3,000	418.00/M	BFP 620 E7764
	NPN	4.0	13	50	180	BFP640E6327INCT-ND	1.13	10.15	80.60	BFP640E6327INTR-ND	3,000	418.00/M	BFP 640 E6327
	NPN	4.0	13	30	250	BFP740E6327INCT-ND ***NEW!***	1.12	10.03	79.62	BFP740E6327INTR-ND ***NEW!***	3,000	412.86/M	BFP 740 E6327
	NPN	4.5	13	150	180	BFP650E6327INCT-ND	1.22	10.89	86.48	—	—	—	BFP 650 E6327
	NPN	4.5	15	12	90	BFP405INCT-ND	.73	5.86	43.96	BFP405INTR-ND	3,000	206.00/M	BFP405E6327
	NPN	4.5	15	35	95	BFP420INCT-ND	.75	5.98	44.85	BFP420INTR-ND	3,000	211.00/M	BFP420E6327
	NPN	4.5	15	50	120	BFP460E6327INCT-ND	.56	4.47	33.56	BFP460E6327INTR-ND	3,000	158.00/M	BFP 460 E6327
	NPN	4.5	15	100	80	BFP450INCT-ND	1.04	9.32	74.03	BFP450INTR-ND	3,000	384.00/M	BFP450E6327
	NPN	12	20	35	100	BFP182WE6327INCT-ND	.55	4.31	29.48	BFP182WE6327INTR-ND	3,000	125.00/M	BFP 182W E6327
	NPN	12	20	65	100	BFP183WE6327INCT-ND	.64	5.02	34.36	BFP183WE6327INTR-ND	3,000	145.00/M	BFP 183W E6327
	NPN	12	20	80	100	BFP193WE6327INCT-ND	.55	4.44	33.26	BFP193WE6327INTR-ND	3,000	156.00/M	BFP 193W E6327
	NPN	12	20	150	100	BFP196WE6327INCT-ND	.66	5.27	39.50	BFP196WE6327INTR-ND	3,000	186.00/M	BFP 196W E6327
	NPN	5.0	14	80	110	BFP540E6327INCT-ND	.82	7.05	55.65	BFP540E6327INTR-ND	3,000	269.00/M	BFP 540 E6327
	NPN	5.0	10	80	110	BFP540ESDE6327INCT-ND	1.08	9.33	73.68	BFP540ESDE6327INTR-ND	3,000	356.00/M	BFP 540ESD E6327
TSFP-4	NPN	4.5	13	150	180	BFP650FE6327INCT-ND	2.26	19.34	157.90	—	—	—	BFP 650F E6327
	NPN	4.5	15	12	95	BFP405FE6327INCT-ND	.72	5.79	43.46	BFP405FE6327INTR-ND	3,000	204.00/M	BFP 405F E6327
	NPN	4.5	15	35	95	BFP420FE6327INCT-ND	.72	5.79	43.46	BFP420FE6327INTR-ND	3,000	204.00/M	BFP 420F E6327
	NPN	2.5	10	40	110	BFP520FE6327INCT-ND	.78	6.27	47.03	BFP520FE6327INTR-ND	3,000	220.88/M	BFP 520F E6327
	NPN	4.0	13	30	250	BFP740FE6327INCT-ND	1.30	11.63	92.34	BFP740FE6327INTR-ND	3,000	479.00/M	BFP 740F E6327
	NPN	4.0	13	50	180	BFP640FE6327INCT-ND	1.14	10.23	81.24	BFP640FE6327INTR-ND	3.000	421.00/M	BFP640FE6327
	NPN	4.5	14	80	185	BFP540FESDE6327INCT-ND	1.06	9.12	72.00	BFP540FESDE6327INTR-ND	3,000	348.00/M	BFP540FESDE6327
TSLP-3-9	NPN	4.0	13	10	250	BFR705L3RHE6327INCT-ND	2.38	20.41	166.65	BFR705L3RHE6327INTR-ND	15,000	850.25/M	BFR 705L3RH E6327
	NPN	4.0	13	30	250	BFR740L3RHE6327INCT-ND	1.31	11.74	93.23	—	—	—	BFR 740L3RH E6327
	NPN	4.0	13	90	250	BFR750L3RHE6327INCT-ND ***NEW!***	2.38	20.40	166.58	BFR750L3RHE6327INTR-ND ***NEW!***	15,000	849.88/M	BFR 750L3RH E6327

Silicon RF Switching Diodes

Package	Reverse Voltage Vr	Forward Current If (mA)	Charge Carrier Lifetime Trr (ns)	Diode Capacitance (Ct) (pF)	Forward Resistance (rf) Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
SC-79	150	100	1,550	0.23	12.5	BAR64-02VE6327INCT-ND	.48	3.38	22.50	BAR64-02VE6327INTR-ND	81.00/M	BAR 64-02V E6327
SOT-23	100	140	1,000	0.25	2600	BAR14-1E6327INCT-ND	.67	5.33	40.00	BAR14-1E6327INTR-ND	188.00/M	BAR 14-1 E6327
	100	140	1,000	0.25	2600	BAR15-1E6327INCT-ND	.67	5.33	40.00	BAR15-1E6327INTR-ND	188.00/M	BAR 15-1 E6327
SOD-323	50	100	75	0.21	1.2	BAR63-03WE6327INCT-ND	.57	4.09	24.54	BAR63-03WE6327INTR-ND	82.00/M	BAR 63-03W E6327
SOT-343	30	100	80	0.6	0.7	BAR81WE6327INCT-ND	.77	6.19	46.40	—	—	BAR 81W E6327
TSSLP-2	50	100	500	0.25	3.5	BAR95-02LSE6327INCT-ND	.50	2.64	17.44	—	—	BAR 95-02LS E6327

Silicon Variable Capacitance Diodes

Package	Reverse Voltage Vr	Forward Current If (mA)	Capacitance Ratio Ct/Ct (pF)	Diode Capacitance (Ct) (pF)	Forward Resistance (rs) Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
SCD-80	10	20	3.7	17.5	0.35	BBY57-02WE6327INCT-ND	.62	4.87	33.31	BBY57-02WE6327INTR-ND	141.00/M	BBY 57-02W E6327
	30	20	12.7	6.6	1.5	BB857E7902INCT-ND	.62	4.89	33.46	BB857E7902INTR-ND	142.00/M	BB 857 E7902
SOD-323	30	20	6.7	15	0.58	BB833INCT-ND	.49	3.83	26.21	BB833INTR-ND	111.00/M	BB833E6327
	30	20	6.7	15	0.58	BB535E7904INCT-ND	.44	3.17	19.02	BB535E7904INTR-ND	63.00/M	BB 535 E7904
	28	20	6.9	43	0.35	BB439E6327INCT-ND	.70	6.05	47.73	BB439E6327INTR-ND	231.00/M	BB 439 E6327
	30	20	8.6	8.8	1.0	BB831E7904INCT-ND	.55	4.14	28.15	—	—	BB 831 E7904
	30	20	10.4	29.75	0.65	BB639E7904INCT-ND	.52	3.71	22.26	BB639E7904INTR-ND	74.00/M	BB 639 E7904
	30	20	16.6	54.5	1.15	BB640E6327INCT-ND	.48	3.40	22.31	BB640E6327INTR-ND	91.00/M	BB 640 E6327

(Continued)

Diodes and Transistors *(Cont.)*

Cascade RF Amplifiers

Package	Supply Voltage	Device Current (ID) (mA)	Insertion Power Gain (S21)2	Noise Figure (F50)Ω	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Infineon Part No.
SOT-343	2.0 ~ 5.0	25	27dB	1.9dB	BGA427E6327INCT-ND	.97	8.66	68.74	BGA427E6327INTR-ND	356.00/M	BGA 427 E6327
SOT-143	2.5 ~ 5.0	20	17dB	1.2dB	BGA416E6327INCT-ND	1.00	8.97	71.25	BGA416E6327INTR-ND	369.00/M	BGA 416 E6327

Tranceivers/Transmitters

Transceivers: The wireless control transceiver series is a family of low power consumption single chip FSK/ASK transceivers for half duplex low data rate communication. The IC offers a very high level of integration and needs only a few external components.

Features: • FSK and ASK modulation and demodulation • I^{2}C Controller interface • On-chip low pass channel select filter and data filter with tunable bandwidth • Onboard data filter • Data comparator • Data rate detection circuit

Transmitters: The Infineon wireless control transmitter series offers a high level of integration and needs only a few external components. The device contains a fully integrated PLL synthesizer and a high efficiency power amplifier to drive a loop antenna. A special circuit design and a unique power amplifier design are used to save current consumption and therefore to save battery life.

Features: • Temperature range -40°C ~ 125°C • FSK and ASK modulation

Package	Frequency Range (MHz)	Supply Voltage	Supply Current Rx	Supply Current Tx	Sensitivity dBm	RF Transit Power	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
Transceivers														
38-TSSOP	312 ~ 325	2.1 ~ 5.5	8.8mA	14.1mA	-109	9 dBm	TDA5251INCT-ND	4.57	37.50	316.41	TDA5251INTR-ND	3,000	1559.00/M	TDA5251
	433 ~ 435	2.1 ~ 5.5	8.6mA	13.3mA	-109	9 dBm	TDA5255INCT-ND	4.42	39.74	323.77	TDA5255INTR-ND	3,000	1957.00/M	TDA5255
Transmitters														
10-TSSOP	433 ~ 435	2.1 ~ 4.0	—	7mA	—	5 dBm	TDK5100FINCT-ND	1.78	15.26	124.58	—	—	—	TDK5100F

IEEE802.15.4/ZigBee™ Modules, ICs and Kits

Features:
Jennic provides single-chip ZigBee and 802.15.4 solutions, along with different Module styles to suit your application.

JN5121 Series: provides a 16MHz 32-bit RISC MCU with low power consumption, with 96kB RAM for program, data and routing tables and 64kB ROM for program code.

JN5139 Series: provides a 16MHz 32-bit RISC MCU with low power consumption, with up to 96kB RAM for program, data and routing tables and 192kB ROM for program code. Development kits are available with expansion kits to add extra Controller boards or sensor boards with Temperature, Light and Humidity sensors.

JN5148 Series: provides a 32-bit RISC processor with 32Mps performance and fully compliant IEEE 8oz. 802.15.4 transceiver with 128kB ROM and 128kB RAM.

Package Type	Supply Voltage (V)	Supply Current TX / RX (mA)	ISM Band (GHz)	Data Rate (kbps)	Output Power (dBm)	RAM / ROM (kB)	Sensitivity (dBm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Jennic Part No.
JN5121/JN5139 802.15.4 Transceivers														
56-QFN	2.2 ~ 3.6	34/34	2.4	250	3	96/192	-97	616-1033-1-ND	13.20	12.09	6.30	1,000	4650.00	JN5139-001-V
JN5121/JN5139 ZigBee Transceivers														
56-QFN	2.2 ~ 3.6	34/34	2.4	250	3	96/192	-97	616-1034-1-ND	14.04	12.39	7.73	1,000	4950.00	JN5139-Z01-V
NEW! JN5148 802.15.4 Transceivers NEW!														
56-QFN	2.0 ~ 3.6	15/17.5	2.4	250	2.5	128/128	-95	616-1049-1-ND	14.70	14.44	8.89	500	3075.50	JN5148-001-X

Size (mm)	Supply Voltage (V)	Power Consumption Sleep (µA)	Power Consumption Active Tx/Rx (mA)	ISM Band (GHz)	Output Power (dBm)	Receive Sensitivity (dBm)	Antenna Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Jennic Part No.
ZigBee / 802.15.4 Modules													
JN5121 802.15.4 Modules													
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	Ceramic	616-1007-1-ND	22.35	21.27	500	8615.00	JN5121-000-M00T
JN5139 ZigBee Modules													
18x30	2.7 ~ 3.6	2	40/40	2.4	3	-97	Ceramic	616-1029-1-ND	23.81	21.56	500	8765.00	JN5139-Z01-M00R1T
18x30	2.7 ~ 3.6	2	40/40	2.4	3	-97	SMA Connector	616-1030-1-ND	27.09	24.81	200	4208.00	JN5139-Z01-M01R1V
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	On Board	616-1035-1-ND	23.36	21.26	500	8615.00	JN5139-001-M00R1T
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	SMA Connector	616-1036-1-ND	25.84	24.51	200	4148.00	JN5139-001-M01R1V
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	uFI Connector	616-1038-1-ND	25.84	24.51	500	9840.00	JN5139-001-M03R1T
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	uFI Connector	616-1039-1-ND	27.09	24.81	500	9990.00	JN5139-Z01-M03R1T
18x40.5	2.7 ~ 3.6	2	120/45	2.4	19	-100	SMA Connector	616-1031-1-ND	35.11	31.25	200	5474.00	JN5139-Z01-M02R1V
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	SMA Connector	616-1037-1-ND	33.62	30.95	200	5474.00	JN5139-001-M02R1V
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	uFI Connector	616-1040-1-ND	35.11	31.25	500	12990.00	JN5139-Z01-M04R1T
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	uFI Connector	616-1041-1-ND	33.62	30.95	500	12840.00	JN5139-001-M04R1T
NEW! JN5148 ZigBee Modules NEW!													
18x32	2.3 ~ 3.6	2.6	15/17.5	2.4	2.5	-95	Ceramic Chip	616-1045-1-ND	24.42	22.30	500	9010.00	JN5148-001-M00T
18x30	2.3 ~ 3.6	2.6	15/17.5	2.4	2.5	-95	uFI Connector	616-1046-1-ND	30.15	26.01	500	10510.00	JN5148-001-M03T
18x41	2.7 ~ 3.6	2.6	110/23	2.4	20	-98	uFI Connector	616-1047-1-ND	36.75	33.70	500	13615.00	JN5148-001-M04T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Development Kits and Accessories

Description	Digi-Key Part No.	Price Each	Jennic Part No.
JN5139 802.15.4 Development Kit			
Full 802.15.4 Development Kit for JN5139 Module, includes controller board w/LCD, 4 sensor modules (light, temperature and humidity) and serial converter dongle	616-1027-ND	465.26	JN5139-EK000
NEW! JN5148 ZigBee PRO Upgrade Kit NEW!			
Upgrade Kit for JN5139-EKXXX, Includes 7 modules, 5 are standard power, 2 are high power	616-1048-ND	249.00	JN5148-UG010
NEW! JN5148 ZigBee PRO Evaluation Kit NEW!			
Includes controller board with LCD and pre-installed module with uFI connector, 4 sensor boards, 2 high-power plug in modules with uFI connector, 3 SMA-connector antennas, 2 USB-to-Serial (FDTI) cables, 1 pack of 10 AAA batteries for board	616-1044-ND	649.00	JN5148-EK010

Ceramic Chip Antennas

Frequency (MHz)	Case Size	Gain (dBi) Peak / Average	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
				1	10	100		Qty.	Pricing	
880 ~ 960	50‡	-0.7 / -2.6	712-1002-1-ND	2.53	2.20	2.03	712-1002-2-ND	1,000	1012.50	0920AT50A080E
1,555 ~ 1,595	43-1	-1.5 / -2.5	712-1003-1-ND	.96	.83	.77	712-1003-2-ND	1,000	382.50	1575AT43A0040E
2,400 ~ 2,500	18-4	0.5 / -0.5	712-1005-1-ND	.47	.41	.38	712-1005-2-ND	3,000	189.00/M	2450AT18A100E
2,400 ~ 2,500	18-4	0.5 / -0.5	712-1006-1-ND	.47	.41	.38	712-1006-2-ND	3,000	189.00/M	2450AT18B100E
2,400 ~ 2,500	42-1	0 / -1.0	712-1007-1-ND	.56	.49	.45	712-1007-2-ND	2,000	225.00/M	2450AT42A100E
2,400 ~ 2,500	42-2	0 / -1.5	712-1008-1-ND	.65	.57	.52	712-1008-2-ND	2,000	258.75/M	2450AT42B100E
2,400 ~ 2,500	43-1	2.0 / 0.5	712-1009-1-ND	.84	.74	.68	712-1009-2-ND	1,000	337.50	2450AT43A100E
2,400 ~ 2,500	43-2	1.0 / -0.5	712-1010-1-ND	.68	.59	.54	712-1010-2-ND	1,000	270.00	2450AT43B100TE
2,400 ~ 2,500	44-1	1.3 / 0	712-1011-1-ND	.92	.80	.74	—	—	—	2450AT44A100E
2,400 ~ 2,500	45-1	3.0 / 1.0	712-1012-1-ND	1.07	.93	.86	712-1012-2-ND	1,000	427.50	2450AT45A100E
4,900 ~ 5,900	18-4	2.0 / -2.5	712-1016-1-ND	.47	.41	.38	712-1016-2-ND	3,000	189.00/M	5400AT18A1000E
858 ~ 878	43-1	-1.0 / -4.0	712-1399-1-ND	.79	.69	.63	712-1399-2-ND	1,000	315.00	0868AT43A0020E
3,100 ~ 10,300	51	1.5 / -3.5	712-1402-1-ND§	2.59	2.25	2.07	712-1402-2-ND	1,000	1035.00	3100AT51A7200E
2,300 ~ 2,700	44	2.5 / 0.5	712-1403-1-ND§	.90	.78	.72	712-1403-2-ND	1,000	360.00	2500AT44M0400E

‡ See Digi-Key website for detailed specifications.

Ceramic Chip Baluns and Balun Filters

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
						1	10	100		Qty.	Pricing	
863 ~ 928	15-1A	50 / —	180° ±10°	1.5	712-1474-1-ND	.74	.65	.60	712-1474-2-ND	4,000	297.00/M	0896BM15A0001E
2,300 ~ 2,700	14-1	50 / 50	180° ±15°	1.5	712-1046-1-ND§	.73	.64	.59	712-1046-2-ND	4,000	292.50/M	2500BL14M050T
3,300 ~ 3,900	14-1	50 / 50	180° ±15°	1.5	712-1048-1-ND§	.84	.74	.68	712-1048-2-ND	4,000	337.50/M	3600BL14M050T
3,300 ~ 3,900	14-1	50 / 100	180° ±15°	1.5	712-1049-1-ND§	.84	.74	.68	712-1049-2-ND	4,000	337.50/M	3600BL14M100T
3,400 ~ 4,000	15-1B	50 / 50	180° ±25°	2.0	712-1050-1-ND	.51	.44	.41	712-1050-2-ND	4,000	202.95/M	3700BL15B050E
3,400 ~ 4,000	15-1	50 / 200	180° ±20°	1.0	712-1052-1-ND	.56	.49	.45	712-1052-2-ND	4,000	225.00/M	3700BL15B200E
3,100 ~ 4,800	14-1	50 / 100	180° ±20°	1.5	712-1053-1-ND§	.84	.74	.68	712-1053-2-ND	4,000	337.50/M	4000BL14U100T
4,900 ~ 5,875	14-1	50 / 100	180° ±10°	1.5	712-1057-1-ND	.84	.74	.68	712-1057-2-ND	4,000	337.50/M	5400BL14B100T
4,900 ~ 5,900	15-1B	50 / 50	180° ±10°	2.0	712-1058-1-ND	.51	.44	.41	712-1058-2-ND	4,000	202.50/M	5400BL15B050E
4,900 ~ 5,900	15-1B	50 / 100	180° ±10°	2.0	712-1059-1-ND	.56	.49	.45	712-1059-2-ND	4,000	225.00/M	5400BL15B100E
4,900 ~ 5,875	15-1A	50 / 50	180° ±10°	2.0	712-1061-1-ND	.41	.36	.33	712-1061-2-ND	4,000	162.00/M	5400BL15K050E
5,150 ~ 5,875	15-1B	50 / 100	180° ±10°	2.0	712-1062-1-ND	.36	.31	.29	712-1062-2-ND	4,000	142.50/M	5512BL15B100E
Balun Filters												
863 ~ 928	15-1A	50 / 100	180° ±15°	2.0	712-1473-1-ND	.73	.64	.59	712-1473-2-ND	4,000	292.50/M	0896FB15A0100E
2,400 ~ 2,500	15-1A	50 / 50	180° ±10°	1.0	712-1065-1-ND	1.13	.98	.90	712-1065-2-ND	4,000	450.00/M	2450FB15A050E
2,400 ~ 2,500	15‡	50 / —	180° ±10°	1.5	712-1066-1-ND	1.02	.89	.82	—	—	—	2450FB15K0001E
2,400 ~ 2,500	39-2	50 / 100	180° ±10°	1.0	712-1068-1-ND	.68	.59	.54	712-1068-2-ND	3,000	270.00/M	2450FB39B100E
2,300 ~ 2,390	39-2B	50 / 50	180° ±10°	1.5	712-1404-1-ND§	1.01	.88	.81	712-1404-2-ND	3,000	405.00/M	2345FB39A0050E
2,500 ~ 2,690	39-2B	50 / 50	180° ±10°	1.5	712-1405-1-ND§	1.01	.88	.81	712-1405-2-ND	3,000	405.00/M	2595FB39A0050E
3,400 ~ 3,600	39-2B	50 / 50	180° ±12°	1.5	712-1406-1-ND§	1.01	.88	.81	712-1406-2-ND	3,000	405.00/M	3500FB39A0050E

‡ See Digi-Key website for detailed specifications.

Baluns 2.45GHz WiFi/Bluetooth

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	Johanson Technology Part No.
						1	10	100			
2,400 ~ 2,500	14-1	50 / 50	180° ±10°	2.0	712-1037-1-ND	.39	.35	.32	712-1037-2-ND	157.50/M	2450BL14C050T
2,400 ~ 2,500	14-1	50 / 200	180° ±10°	2.0	712-1039-1-ND	.39	.35	.32	712-1039-2-ND	157.50/M	2450BL14C200
2,400 ~ 2,500	15-1B	50 / 50	180° ±10°	2.0	712-1040-1-ND	.25	.22	.20	712-1040-2-ND	99.00/M	2450BL15B050E
2,400 ~ 2,500	15-1B	50 / 100	180° ±10°	2.0	712-1041-1-ND	.25	.22	.20	712-1041-2-ND	99.00/M	2450BL15B100E
2,400 ~ 2,500	15-1B	50 / 200	180° ±10°	2.0	712-1043-1-ND	.25	.22	.20	712-1043-2-ND	99.00/M	2450BL15B200E
2,400 ~ 2,500	15-1B	50 / 100	180° ±10°	2.0	712-1045-1-ND	.56	.49	.45	712-1045-2-ND	225.00/M	2450BL15K100E

Baluns GSM / DCS / PCS / CDMA

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
						1	10	100		Qty.	Pricing	
800 ~ 1,000	15-1D	50 / 50	180° ±10°	2.0	712-1022-1-ND	.56	.49	.45	712-1022-2-ND	4,000	225.00/M	0900BL15C050E
800 ~ 1,000	18-1	50 / 100	180° ±10°	2.0	712-1023-1-ND	.37	.32	.30	712-1023-2-ND	3,000	146.25/M	0900BL18B100E
800 ~ 1,000	18-1	50 / 200	180° ±10°	2.0	712-1024-1-ND	.37	.32	.30	712-1024-2-ND	3,000	146.25/M	0900BL18B200E
1,700 ~ 2,000	15-1	50 / 50	180° ±10°	2.0	712-1029-1-ND	.51	.44	.41	—	—	—	1850BL15A050E
1,700 ~ 2,000	15-1B	50 / 50	180° ±10°	2.0	712-1030-1-ND	.56	.49	.45	712-1030-2-ND	4,000	225.00/M	1850BL15B050E
1,700 ~ 2,000	15-1B	50 / 200	180° ±10°	2.0	712-1032-1-ND	.50	.43	.40	712-1032-2-ND	4,000	198.00/M	1850BL15B200E

(Continued)

Baluns WiMAX and WCDMA

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Johanson Technology Part No.
1,500 ~ 1,700	15-1B	50 / 50	180° ±10°	2.0	712-1026-1-ND	.56	.49	.45	712-1026-2-ND	225.00/M	1600BL15B050E
1,500 ~ 1,700	15-1B	50 / 100	180° ±10°	2.0	712-1027-1-ND	.56	.49	.45	712-1027-2-ND	225.00/M	1600BL15B100E

BandPass Filters

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
					1	10	100		Qty.	Pricing	
1,710 ~ 1,910	07-1	2.0	9.5	712-1070-1-ND	.56	.49	.45	712-1070-2-ND	10,000	225.00/M	1810BP07B200E
2,400 ~ 2,500	07‡	2.5	9.5	712-1076-1-ND	.53	.47	.43	712-1076-2-ND	10,000	213.75/M	2450BP07A0100E
2,400 ~ 2,500	14‡	2.0	9.5	712-1077-1-ND	1.04	.90	.83	—	—	—	2450BP14C0100T
2,400 ~ 2,500	15-3	2.2	9.5	712-1078-1-ND	.51	.44	.41	712-1078-2-ND	4,000	202.50/M	2450BP15B100E
2,400 ~ 2,500	15-3C	1.5	9.5	712-1081-1-ND	.32	.28	.26	712-1081-2-ND	4,000	128.25/M	2450BP15E0100E
2,450 ±50	18-3A	2.5	9.5	712-1084-1-ND	.73	.64	.59	712-1084-2-ND	3,000	292.50/M	2450BP18C100CE
2,450 ±50	39-1	2.5	9.5	712-1087-1-ND	.56	.49	.45	712-1087-2-ND	3,000	225.00/M	2450BP39C100AE
2,400 ~ 2,500	39-1	1.5	9.5	712-1089-1-ND	.50	.43	.40	712-1089-2-ND	3,000	198.00/M	2450BP39C100CE
2,400 ~ 2,500	39-1	2.5	9.5	712-1091-1-ND	.45	.39	.36	712-1091-2-ND	3,000	180.00/M	2450BP39D100BE
2,400 ~ 2,500	39-1	1.2	9.5	712-1092-1-ND	.62	.54	.50	712-1092-2-ND	3,000	247.50/M	2450BP39D100CE
2,450 ±50	41-1	2.3	9.5	712-1095-1-ND	1.59	1.39	1.28	—	—	—	2450BP41D100AE
2,300 ~ 2,700	15‡	2.0	9.5	712-1097-1-ND§	.90	.78	.72	712-1097-2-ND	4,000	360.00/M	2500BP15M400E
2,500 ~ 2,686	44-1	2.0	9.5	712-1098-1-ND	2.10	1.82	1.68	—	—	—	2593BP44B186E
3,300 ~ 3,900	15-3B	1.8	9.5	712-1099-1-ND§	.90	.78	.72	712-1099-2-ND	4,000	360.00/M	3600BP15M600E
3,100 ~ 4,900	15-2B	2.3	8.5	712-1100-1-ND§	.73	.64	.59	712-1100-2-ND	4,000	292.50/M	4000BP15U1800E
5,150 ~ 5,570	15-3C	5.0	9.5	712-1102-1-ND	.89	.78	.72	—	—	—	5450BP15T600E
5,150 ~ 5,875	15-3B	1.5	9.5	712-1105-1-ND	.48	.42	.39	712-1105-2-ND	4,000	191.25/M	5515BP15B725E
5,150 ~ 5,875	15-3B	2.5	9.5	712-1109-1-ND	.48	.42	.39	712-1109-2-ND	4,000	191.25/M	5515BP15C725E
5,150 ~ 5,875	15-1B	2.8	9.5	712-1106-1-ND	.56	.49	.45	712-1106-2-ND	4,000	225.00/M	5515BP15B730E
4,900 ~ 5,875	15-3B	1.5	9.5	712-1107-1-ND	.39	.35	.32	712-1107-2-ND	4,000	157.50/M	5515BP15B975E
4,900 ~ 5,875	15-3B	2.0	8.5	712-1136-1-ND	.39	.35	.32	712-1136-2-ND	4,000	157.50/M	5515BP15C975E
4,900 ~ 5,920	15-3B	1.5	9.5	712-1108-1-ND	.39	.35	.32	712-1108-2-ND	4,000	157.50/M	5515BP15C1020E
3,300 ~ 3,700	14-1	1.8	12	712-1533-1-ND	.54	.47	.44	712-1533-2-ND	4,000	216.00/M	3600BP14M0600T

‡ See Digi-Key website for detailed specifications.

EMI Filters

No. of Sections	Case Size	Cutoff Frequency (MHz)	Attenuation Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Johanson Technology Part No.
4	18-4	200	10 @ 1500 ~ 3000MHz	712-1111-1-ND	.84	.73	.68	—	—	0200FA18A0200E
	15‡	400	20 @ 800 ~ 1000MHz	712-1112-1-ND	.60	.52	.48	712-1112-2-ND	240.00/M	0400FA15A0400E
	18-4	400	10 @ 1500 ~ 2500MHz	712-1113-1-ND	.84	.73	.68	—	—	0400FA18A0400E

‡ See Digi-Key website for detailed specifications.

Low Pass Filters

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
					1	10	100		Qty.	Pricing	
0 ~ 500	15-1A	0.7	9.5	712-1117-1-ND	1.02	.89	.82	712-1117-2-ND	4,000	408.00/M	0500LP15A500E
824 ~ 960	07-1	0.7	9.5	712-1119-1-ND	1.14	.99	.92	712-1119-2-ND	10,000	456.00/M	0892LP07A136E
880 ~ 915	18-2	0.6	10.9	712-1120-1-ND	1.18	1.03	.95	712-1120-2-ND	3,000	472.50/M	0898LP18A035E
1,710 ~ 1,785	18-2	0.6	10.9	712-1123-1-ND	1.07	.93	.86	712-1123-2-ND	3,000	427.50/M	1748LP18A075E
1,710 ~ 1,910	14-1	0.6	11.7	712-1126-1-ND	1.01	.88	.81	712-1126-2-ND	4,000	405.00/M	1810LP14A200T
2,400 ~ 2,483	18-2	0.6	10.9	712-1128-1-ND	.94	.82	.76	—	—	—	2442LP18A083E
2,400 ~ 2,500	14-1	0.5	14.0	712-1129-1-ND	.45	.39	.36	712-1129-2-ND	4,000	180.00/M	2450LP14A100T
2,400 ~ 2,500	14-1	0.5	14.0	712-1130-1-ND	.45	.39	.36	712-1130-2-ND	4,000	180.00/M	2450LP14B100T
2,400 ~ 2,500	15‡	0.5	10.9	712-1133-1-ND	.93	.81	.75	—	—	—	2450LP15B050E
3,400 ~ 3,700	14-1	0.65	14.0	712-1134-1-ND§	.48	.42	.39	712-1134-2-ND	4,000	191.25/M	3550LP14A300T
5,150 ~ 5,875	15-2A	0.6	10.9	712-1135-1-ND	.51	.44	.41	712-1135-2-ND	4,000	202.50/M	5515LP15A730E

‡ See Digi-Key website for detailed specifications.

Directional Couplers

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Johanson Technology Part No.
Coupler with Low Pass Filter									
880 ~ 915	15-1C	0.7	712-1141-1-ND	.68	.59	.54	712-1141-2-ND	270.00/M	0898CF15A035E
860 ~ 960	15-2B	1.2	712-1534-1-ND ***NEW!***	1.67	1.45	1.34	712-1534-2-ND ***NEW!***	669.00/M	0910CF15B0100E
Coupler, 3dB Hybrid									
880 ~ 915	14-1	0.28	712-1149-1-ND	.84	.74	.68	712-1149-2-ND	337.50/M	0898CP14A035T

(Continued)

RF Chip Inductors

Package Type	Inductance (nH)	Tolerance	Test Frequency (MHz)	Rate Current (mA)	Q (Min.)	DCR (Ω)	SRF (MHz)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
									1	10	100		Qty.	Pricing	
0201	0.6	±0.2nH	100	300	4	.12	13,000	712-1475-1-ND†	.07	.58	4.60	712-1475-2-ND	15,000	17.25/M	L-05B0N6CV6T
	0.8	±0.2nH	100	300	4	.12	13,000	712-1476-1-ND†	.07	.58	4.60	712-1476-2-ND	15,000	17.25/M	L-05B0N8CV6T
	1.0	±0.3nH	100	300	4	.12	13,000	712-1485-1-ND†	.07	.58	4.60	712-1485-2-ND	15,000	17.25/M	L-05B1N0SV6T
	1.2	±0.3nH	100	300	4	.15	13,000	712-1495-1-ND†	.07	.58	4.60	712-1495-2-ND	15,000	17.25/M	L-05B1N2SV6T
	1.5	±0.3nH	100	300	4	.18	13,000	712-1486-1-ND†	.07	.58	4.60	712-1486-2-ND	15,000	17.25/M	L-05B1N5SV6T
	1.8	±0.3nH	100	300	4	.22	10,500	712-1487-1-ND†	.07	.58	4.60	712-1487-2-ND	15,000	17.25/M	L-05B1N8SV6T
	2.2	±0.3nH	100	300	4	.26	9,500	712-1488-1-ND†	.07	.58	4.60	712-1488-2-ND	15,000	17.25/M	L-05B2N2SV6T
	2.4	±0.3nH	100	300	4	.30	9,000	712-1489-1-ND†	.07	.58	4.60	712-1489-2-ND	15,000	17.25/M	L-05B2N4SV6T
	2.7	±0.3nH	100	300	4	.32	8,500	712-1490-1-ND†	.07	.58	4.60	712-1490-2-ND	15,000	17.25/M	L-05B2N7SV6T
	3.0	±0.3nH	100	300	4	.36	8,000	712-1478-1-ND†	.07	.58	4.60	712-1478-2-ND	15,000	17.25/M	L-05B3N0SV6T
	3.3	±0.3nH	100	300	4	.38	7,500	712-1491-1-ND†	.07	.58	4.60	712-1491-2-ND	15,000	17.25/M	L-05B3N3SV6T
	3.7	±0.3nH	100	300	4	.44	6,900	712-1479-1-ND†	.07	.58	4.60	712-1479-2-ND	15,000	17.25/M	L-05B3N7SV6T
	3.9	±0.3nH	100	300	4	.45	6,800	712-1492-1-ND†	.07	.58	4.60	712-1492-2-ND	15,000	17.25/M	L-05B3N9SV6T
	4.7	±0.3nH	100	300	4	.50	6,000	712-1493-1-ND†	.07	.58	4.60	712-1493-2-ND	15,000	17.25/M	L-05B4N7SV6T
	5.1	±0.3nH	100	300	5	.55	5,700	712-1494-1-ND†	.07	.58	4.60	712-1494-2-ND	15,000	17.25/M	L-05B5N1SV6T
	5.6	±0.3nH	100	300	5	.60	5,500	712-1500-1-ND†	.07	.58	4.60	712-1500-2-ND	15,000	17.25/M	L-05B5N6SV6T
	6.8	±5%	100	250	5	.70	4,800	712-1501-1-ND†	.07	.58	4.60	712-1501-2-ND	15,000	17.25/M	L-05B6N8JV6T
	8.2	±5%	100	250	5	.90	4,600	712-1502-1-ND†	.07	.58	4.60	712-1502-2-ND	15,000	17.25/M	L-05B8N2JV6T
	10	±5%	100	250	5	1.20	4,000	712-1480-1-ND†	.07	.58	4.60	712-1480-2-ND	15,000	17.25/M	L-05B10NJV6T
	12	±5%	100	250	5	1.30	3,500	712-1481-1-ND†	.07	.58	4.60	712-1481-2-ND	15,000	17.25/M	L-05B12NJV6T
	13	±5%	100	250	5	1.35	3,500	712-1482-1-ND†	.07	.58	4.60	712-1482-2-ND	15,000	17.25/M	L-05B13NJV6T
	15	±5%	100	250	5	1.40	3,000	712-1483-1-ND†	.07	.58	4.60	712-1483-2-ND	15,000	17.25/M	L-05B15NJV6T
	18	±5%	100	200	5	1.50	2,500	712-1484-1-ND†	.07	.58	4.60	712-1484-2-ND	15,000	17.25/M	L-05B18NJV6T
	20	±5%	100	200	5	—	2,100	712-1477-1-ND†	.07	.58	4.60	712-1477-2-ND	15,000	17.25/M	L-05B20NJV6T
	22	±5%	100	200	5	1.80	2,200	712-1496-1-ND†	.07	.58	4.60	712-1496-2-ND	15,000	17.25/M	L-05B22NJV6T
	27	±5%	100	200	5	2.00	1,800	712-1497-1-ND†	.07	.58	4.60	712-1497-2-ND	15,000	17.25/M	L-05B27NJV6T
	33	±5%	100	200	5	2.30	1,500	712-1498-1-ND†	.07	.58	4.60	712-1498-2-ND	15,000	17.25/M	L-05B33NJV6T
	39	±5%	100	200	5	2.50	1,400	712-1499-1-ND†	.07	.58	4.60	712-1499-2-ND	15,000	17.25/M	L-05B39NJV6T
0402	10	±5%	100	250	8	.45	3,700	712-1407-1-ND§▲	.05	.41	3.24	712-1407-2-ND	10,000	12.15/M	L-07C10NJV6T
	15	±5%	100	250	8	.60	3,100	712-1408-1-ND§▲	.05	.41	3.24	712-1408-2-ND	10,000	12.15/M	L-07C15NJV6T
	18	±5%	100	200	8	.65	2,900	712-1409-1-ND§▲	.05	.41	3.24	712-1409-2-ND	10,000	12.15/M	L-07C18NJV6T
	1.0	±0.3nH	100	300	8	.12	15,000	712-1410-1-ND§▲	.05	.41	3.24	712-1410-2-ND	10,000	12.15/M	L-07C1N0SV6T
	1.2	±0.3nH	100	300	8	.12	15,000	712-1454-1-ND▲	.05	.41	3.24	712-1454-2-ND	10,000	12.15/M	L-07C1N2SV6T
	1.5	±0.3nH	100	300	8	.13	15,000	712-1411-1-ND§▲	.05	.41	3.24	712-1411-2-ND	10,000	12.15/M	L-07C1N5SV6T
	1.8	±0.3nH	100	300	8	.14	14,000	712-1412-1-ND§▲	.05	.41	3.24	712-1412-2-ND	10,000	12.15/M	L-07C1N8SV6T
	2.4	±0.3nH	100	300	8	.16	10,000	712-1456-1-ND▲	.05	.41	3.24	712-1456-2-ND	10,000	12.15/M	L-07C2N4SV6T
	3	±0.3nH	100	300	8	.18	9,000	712-1457-1-ND▲	.05	.41	3.24	712-1457-2-ND	10,000	12.15/M	L-07C3N0SV6T
	3.9	±0.3nH	100	300	8	.22	7,000	712-1459-1-ND▲	.05	.41	3.24	712-1459-2-ND	10,000	12.15/M	L-07C3N9SV6T
	4.3	±0.3nH	100	300	8	.24	6,000	712-1460-1-ND▲	.05	.41	3.24	712-1460-2-ND	10,000	12.15/M	L-07C4N3SV6T
	5.1	±0.3nH	100	300	8	.26	5,500	712-1461-1-ND▲	.05	.41	3.24	712-1461-2-ND	10,000	12.15/M	L-07C5N1SV6T
	5.6	±0.3nH	100	300	8	.27	5,400	712-1462-1-ND▲	.05	.41	3.24	712-1462-2-ND	10,000	12.15/M	L-07C5N6SV6T
	7.5	±5%	100	250	8	.40	4,600	712-1463-1-ND▲	.05	.41	3.24	712-1463-2-ND	10,000	12.15/M	L-07C7N5JV6T
	12	±5%	100	250	8	.50	3,200	712-1453-1-ND▲	.05	.41	3.24	712-1453-2-ND	10,000	12.15/M	L-07C12NJV6T
	22	±5%	100	200	8	.80	2,100	712-1455-1-ND▲	.05	.41	3.24	712-1455-2-ND	10,000	12.15/M	L-07C22NJV6T
	39	±5%	100	150	8	1.20	1,400	712-1458-1-ND▲	.05	.41	3.24	712-1458-2-ND	10,000	12.15/M	L-07C39NJV6T
	27.0	±5%	100	200	8	.90	1,900	712-1413-1-ND§▲	.05	.41	3.24	712-1413-2-ND	10,000	12.15/M	L-07C27NJV6T
	2.2	±0.3nH	100	300	8	.16	12,000	712-1414-1-ND§▲	.05	.41	3.24	712-1414-2-ND	10,000	12.15/M	L-07C2N2SV6T
	2.7	±0.3nH	100	300	8	.17	9,500	712-1415-1-ND§▲	.05	.41	3.24	712-1415-2-ND	10,000	12.15/M	L-07C2N7SV6T
	3.3	±0.3nH	100	300	8	.19	8,500	712-1416-1-ND§▲	.05	.41	3.24	712-1416-2-ND	10,000	12.15/M	L-07C3N3SV6T
	4.7	±0.3nH	100	300	8	.24	6,000	712-1417-1-ND§▲	.05	.41	3.24	712-1417-2-ND	10,000	12.15/M	L-07C4N7SV6T
	6.8	±5%	100	250	8	.32	5,000	712-1419-1-ND§▲	.05	.41	3.24	712-1419-2-ND	10,000	12.15/M	L-07C6N8JV6T
	8.2	±5%	100	250	8	.40	4,600	712-1420-1-ND§▲	.05	.41	3.24	712-1420-2-ND	10,000	12.15/M	L-07C8N2JV6T
	33.0	±5%	100	200	8	1.00	1,600	712-1464-1-ND▲	.05	.41	3.24	712-1464-2-ND	10,000	12.15/M	L-07C33NJV6T
	68.0	±5%	100	100	8	2.20	1,000	712-1422-1-ND▲	.05	.41	3.24	712-1422-2-ND	10,000	12.15/M	L-07C68NJV6T
	100	±5%	100	100	8	2.50	850	712-1423-1-ND▲	.07	.58	4.60	712-1423-2-ND	10,000	17.25/M	L-07CR10JV6T
0603	1.0	±0.3nH	100	300	8	.10	17,000	712-1424-1-ND•	.06	.48	3.84	712-1424-2-ND	4,000	14.42/M	L-14C1N0SV4T
	1.5	±0.3nH	100	300	8	.10	17,000	712-1425-1-ND•	.06	.48	3.84	712-1425-2-ND	4,000	14.42/M	L-14C1N5SV4T
	1.8	±0.3nH	100	300	8	.10	13,000	712-1426-1-ND•	.06	.48	3.84	712-1426-2-ND	4,000	14.42/M	L-14C1N8SV4T
	2.2	±0.3nH	100	300	8	.15	12,000	712-1427-1-ND•	.06	.48	3.84	712-1427-2-ND	4,000	14.42/M	L-14C2N2SV4T
	3.3	±0.3nH	100	300	8	.20	6,500	712-1428-1-ND•	.06	.48	3.84	712-1428-2-ND	4,000	14.42/M	L-14C3N3SV4T
	3.9	±0.3nH	100	300	8	.20	6,300	712-1429-1-ND•	.06	.48	3.84	712-1429-2-ND	4,000	14.42/M	L-14C3N9SV4T
	4.7	±0.3nH	100	300	8	.20	5,400	712-1430-1-ND•	.06	.48	3.84	712-1430-2-ND	4,000	14.42/M	L-14C4N7SV4T
	5.6	±0.3nH	100	300	8	.25	4,600	712-1431-1-ND•	.06	.48	3.84	712-1431-2-ND	4,000	14.42/M	L-14C5N6SV4T
	6.8	±5%	100	300	8	.30	4,500	712-1432-1-ND•	.06	.48	3.84	712-1432-2-ND	4,000	14.42/M	L-14C6N8JV4T
	8.2	±5%	100	300	8	.33	3,800	712-1433-1-ND•	.06	.48	3.84	712-1433-2-ND	4,000	14.42/M	L-14C8N2JV4T
	10	±5%	100	300	8	.35	3,700	712-1434-1-ND•	.07	.56	4.45	712-1434-2-ND	4,000	16.68/M	L-14C10NJV4T
	12	±5%	100	300	8	.40	3,200	712-1435-1-ND•	.07	.56	4.45	712-1435-2-ND	4,000	16.68/M	L-14C12NJV4T
	15	±5%	100	300	8	.45	2,900	712-1436-1-ND•	.07	.56	4.45	712-1436-2-ND	4,000	16.68/M	L-14C15NJV4T
	18	±5%	100	300	10	.50	2,100	712-1437-1-ND•	.07	.56	4.45	712-1437-2-ND	4,000	16.68/M	L-14C18NJV4T
	22	±5%	100	300	10	.55	2,100	712-1438-1-ND•	.07	.56	4.45	712-1438-2-ND	4,000	16.68/M	L-14C22NJV4T
	27	±5%	100	300	10	.60	2,000	712-1439-1-ND•	.07	.56	4.45	712-1439-2-ND	4,000	16.68/M	L-14C27NJV4T
	33	±5%	100	300	10	.65	1,600	712-1440-1-ND•	.07	.56	4.45	712-1440-2-ND	4,000	16.68/M	L-14C33NJV4T
	39	±5%	100	300	10	.70	1,500	712-1441-1-ND•	.07	.56	4.45	712-1441-2-ND	4,000	16.68/M	L-14C39NJV4T
	47	±5%	100	300	12	.90	1,200	712-1442-1-ND•	.07	.56	4.45	712-1442-2-ND	4,000	16.68/M	L-14C47NJV4T
	56	±5%	100	300	12	1.00	1,100	712-1443-1-ND•	.07	.56	4.45	712-1443-2-ND	4,000	16.68/M	L-14C56NJV4T
	68	±5%	100	300	12	1.10	1,000	712-1444-1-ND•	.07	.56	4.45	712-1444-2-ND	4,000	16.68/M	L-14C68NJV4T
	82	±5%	100	300	12	1.20	850	712-1445-1-ND•	.07	.56	4.45	712-1445-2-ND	4,000	16.68/M	L-14C82NJV4T
	100	±5%	100	300	12	1.20	750	712-1446-1-ND•	.11	.89	7.14	712-1446-2-ND	4,000	26.79/M	L-14CR10JV4T
	120	±5%	50	300	8	1.30	700	712-1447-1-ND•	.11	.89	7.14	712-1447-2-ND	4,000	26.79/M	L-14CR12JV4T
	150	±5%	50	300	8	1.40	650	712-1448-1-ND•	.11	.89	7.14	712-1448-2-ND	4,000	26.79/M	L-14CR15JV4T
	180	±5%	50	300	8	1.50	550	712-1449-1-ND•	.11	.89	7.14	712-1449-2-ND	4,000	26.79/M	L-14CR18JV4T
	220	±5%	50	300	8	1.70	450	712-1450-1-ND•	.11	.89	7.14	712-1450-2-ND	4,000	26.79/M	L-14CR22JV4T

Multi-Layer High-Q Capacitors

Digi-Reel® RoHS

These lines of multi-layer capacitors have been developed for High-Q and microwave applications. **Temperature Coefficient:** 0 ±30ppm/°C, -55°C ~ 125°C

S Series: R05S, R07S, R14S and R15S capacitors give an ultra-high Q performance and exhibit NPO temperature characteristics. **L Series:** R05L capacitors give mid-high Q performance and exhibit NPO temperature characteristics. **E Series:** S42E capacitors give excellent high-Q performance from HF to Microwave frequencies.

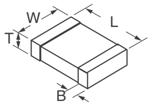

Mechanical Characteristics — Dimensions in mm			
Size Code	L	W	B
R05 (0201)	0.60 ±0.03	0.30 ±0.03	0.20 Max.
R07 (0402)	1.02 ±0.1	0.51 ±0.1	0.25 ±0.15
R14 (0603)	1.57 ±0.15	0.81 ±0.15	0.35 ±0.15
R15 (0805)	2.03 ±0.20	1.27 ±0.20	0.50 ±0.25
S42 (1111)	2.79 +0.51 -0.25	2.79 ±0.51	0.38 Typ.

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
							10	100	500		Qty.	Pricing	
0201	NPO	25	0.2	±0.05pF	0.30 ±0.03	712-1173-1-ND	1.54	9.10	26.25	712-1173-2-ND	15,000	25.20/M	250R05L0R2AV4T
	NPO	25	0.3	±0.05pF	0.30 ±0.03	712-1174-1-ND	1.54	9.10	26.25	712-1174-2-ND	15,000	25.20/M	250R05L0R3AV4T
	NPO	25	0.3	±0.10pF	0.30 ±0.03	712-1466-1-NDΔ	.99	5.85	16.88	712-1466-2-ND	15,000	16.20/M	250R05L0R3BV4T

(Continued)

Multi-Layer High-Q Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
							10	100	500		Qty.	Pricing	
0201	NPO	25	0.4	±0.05pF	0.30 ±0.03	712-1175-1-ND	1.54	9.10	26.25	712-1175-2-ND	15,000	25.20/M	250R05L0R4AV4T
	NPO	25	0.5	±0.05pF	0.30 ±0.03	712-1176-1-ND	1.54	9.10	26.25	712-1176-2-ND	15,000	25.20/M	250R05L0R5AV4T
	NPO	25	0.5	±0.10pF	0.30 ±0.03	712-1467-1-NDΔ	.99	5.85	16.88	712-1467-2-ND	15,000	16.20/M	250R05L0R5BV4T
	NPO	25	0.6	±0.05pF	0.30 ±0.03	712-1177-1-ND	2.27	13.41	38.68	712-1177-2-ND	15,000	37.14/M	250R05L0R6AV4T
	NPO	25	0.7	±0.10pF	0.30 ±0.03	712-1468-1-NDΔ	1.38	8.13	23.44	712-1468-2-ND	15,000	22.50/M	250R05L0R7BV4T
	NPO	25	0.7	±0.05pF	0.30 ±0.03	712-1178-1-ND	2.27	13.41	38.68	712-1178-2-ND	15,000	37.14/M	250R05L0R7AV4T
	NPO	25	0.8	±0.10pF	0.30 ±0.03	712-1179-1-ND	1.38	8.13	23.44	712-1179-2-ND	15,000	22.50/M	250R05L0R8BV4T
	NPO	25	0.9	±0.10pF	0.30 ±0.03	712-1180-1-NDΔ	1.38	8.13	23.44	712-1180-2-ND	15,000	22.50/M	250R05L0R9BV4T
	NPO	25	1.0	±0.10pF	0.30 ±0.03	712-1181-1-NDΔ	1.38	8.13	23.44	712-1181-2-ND	15,000	22.50/M	250R05L1R0BV4T
	NPO	25	1.1	±0.10pF	0.30 ±0.03	712-1182-1-NDΔ	1.38	8.13	23.44	712-1182-2-ND	15,000	22.50/M	250R05L1R1BV4T
	NPO	25	1.2	±0.10pF	0.30 ±0.03	712-1183-1-NDΔ	1.38	8.13	23.44	712-1183-2-ND	15,000	22.50/M	250R05L1R2BV4T
	NPO	25	1.3	±0.10pF	0.30 ±0.03	712-1184-1-ND	1.38	8.13	23.44	712-1184-2-ND	15,000	22.50/M	250R05L1R3BV4T
	NPO	25	1.5	±0.10pF	0.30 ±0.03	712-1185-1-NDΔ	1.38	8.13	23.44	712-1185-2-ND	15,000	22.50/M	250R05L1R5BV4T
	NPO	25	1.8	±0.10pF	0.30 ±0.03	712-1186-1-NDΔ	1.38	8.13	23.44	712-1186-2-ND	15,000	22.50/M	250R05L1R8BV4T
	NPO	25	2.0	±0.10pF	0.30 ±0.03	712-1187-1-ND	2.09	12.35	35.63	712-1187-2-ND	15,000	34.20/M	250R05L2R0BV4T
	NPO	25	2.2	±0.10pF	0.30 ±0.03	712-1188-1-NDΔ	2.09	12.35	35.63	712-1188-2-ND	15,000	34.20/M	250R05L2R2BV4T
	NPO	25	2.4	±0.10pF	0.30 ±0.03	712-1189-1-ND	2.09	12.35	35.63	712-1189-2-ND	15,000	34.20/M	250R05L2R4BV4T
	NPO	25	3.0	±0.10pF	0.30 ±0.03	712-1191-1-NDΔ	2.09	12.35	35.63	712-1191-2-ND	15,000	34.20/M	250R05L3R0BV4T
	NPO	25	3.3	±0.10pF	0.30 ±0.03	712-1192-1-NDΔ	2.09	12.35	35.63	712-1192-2-ND	15,000	34.20/M	250R05L3R3BV4T
	NPO	25	3.6	±0.25pF	0.30 ±0.03	712-1193-1-ND	1.05	6.18	17.81	712-1193-2-ND	15,000	17.10/M	250R05L3R6CV4T
	NPO	25	3.6	±0.10pF	0.30 ±0.03	712-1469-1-NDΔ	2.09	12.35	35.63	712-1469-2-ND	15,000	34.20/M	250R05L3R6BV4T
	NPO	25	3.9	±0.25pF	0.30 ±0.03	712-1194-1-ND	1.05	6.18	17.81	712-1194-2-ND	15,000	17.10/M	250R05L3R9CV4T
	NPO	25	3.9	±0.10pF	0.30 ±0.03	712-1470-1-NDΔ	2.09	12.35	35.63	712-1470-2-ND	15,000	34.20/M	250R05L3R9BV4T
	NPO	25	4.3	±0.25pF	0.30 ±0.03	712-1195-1-ND	1.05	6.18	17.81	712-1195-2-ND	15,000	17.10/M	250R05L4R3CV4T
	NPO	25	4.3	±0.10pF	0.30 ±0.03	712-1471-1-NDΔ	2.09	12.35	35.63	712-1471-2-ND	15,000	34.20/M	250R05L4R3BV4T
	NPO	25	4.7	±0.25pF	0.30 ±0.03	712-1196-1-ND	1.05	6.18	17.81	712-1196-2-ND	15,000	17.10/M	250R05L4R7CV4T
	NPO	25	4.7	±0.10pF	0.30 ±0.03	712-1472-1-NDΔ	2.09	12.35	35.63	712-1472-2-ND	15,000	34.20/M	250R05L4R7BV4T
	NPO	25	5.1	±0.25pF	0.30 ±0.03	712-1197-1-NDΔ	1.27	7.48	21.56	712-1197-2-ND	15,000	20.70/M	250R05L5R1CV4T
	NPO	25	5.6	±0.25pF	0.30 ±0.03	712-1198-1-NDΔ	1.27	7.48	21.56	—	—	—	250R05L5R6CV4T
	NPO	25	6.2	±0.25pF	0.30 ±0.03	712-1199-1-ND	1.27	7.48	21.56	712-1199-2-ND	15,000	20.70/M	250R05L6R2CV4T
	NPO	25	6.8	±0.25pF	0.30 ±0.03	712-1200-1-NDΔ	1.27	7.48	21.56	712-1200-2-ND	15,000	20.70/M	250R05L6R8CV4T
	NPO	25	7.5	±0.25pF	0.30 ±0.03	712-1201-1-ND	1.27	7.48	21.56	712-1201-2-ND	15,000	20.70/M	250R05L7R5CV4T
	NPO	25	8.2	±0.25pF	0.30 ±0.03	712-1202-1-NDΔ	1.27	7.48	21.56	712-1202-2-ND	15,000	20.70/M	250R05L8R2CV4T
	NPO	25	9.1	±0.25pF	0.30 ±0.03	712-1203-1-NDΔ	1.27	7.48	21.56	712-1203-2-ND	15,000	20.70/M	250R05L9R1CV4T
	NPO	25	10	±2%	0.30 ±0.03	712-1204-1-ND	2.09	12.35	35.63	712-1204-2-ND	15,000	34.20/M	250R05L100GV4T
	NPO	25	10	±5%	0.30 ±0.03	712-1205-1-NDΔ	1.05	6.18	17.81	712-1205-2-ND	15,000	17.10/M	250R05L100JV4T
	NPO	25	11	±2%	0.30 ±0.03	712-1206-1-ND	2.09	12.35	35.63	712-1206-2-ND	15,000	34.20/M	250R05L110GV4T
	NPO	25	11	±5%	0.30 ±0.03	712-1207-1-ND	1.05	6.18	17.81	712-1207-2-ND	15,000	17.10/M	250R05L110JV4T
	NPO	25	12	±2%	0.30 ±0.03	712-1208-1-ND	2.09	12.35	35.63	712-1208-2-ND	15,000	34.20/M	250R05L120GV4T
	NPO	25	12	±5%	0.30 ±0.03	712-1209-1-NDΔ	1.05	6.18	17.81	712-1209-2-ND	15,000	17.10/M	250R05L120JV4T
	NPO	25	13	±2%	0.30 ±0.03	712-1210-1-ND	2.09	12.35	35.63	712-1210-2-ND	15,000	34.20/M	250R05L130GV4T
	NPO	25	13	±5%	0.30 ±0.03	712-1211-1-ND	1.05	6.18	17.81	712-1211-2-ND	15,000	17.10/M	250R05L130JV4T
	NPO	25	15	±2%	0.30 ±0.03	712-1212-1-ND	2.09	12.35	35.63	712-1212-2-ND	15,000	34.20/M	250R05L150GV4T
	NPO	25	15	±5%	0.30 ±0.03	712-1213-1-NDΔ	1.05	6.18	17.81	712-1213-2-ND	15,000	17.10/M	250R05L150JV4T
	NPO	25	16	±2%	0.30 ±0.03	712-1214-1-ND	2.09	12.35	35.63	712-1214-2-ND	15,000	34.20/M	250R05L160GV4T
	NPO	25	16	±5%	0.30 ±0.03	712-1215-1-ND	1.05	6.18	17.81	712-1215-2-ND	15,000	17.10/M	250R05L160JV4T
	NPO	25	18	±2%	0.30 ±0.03	712-1216-1-ND	2.09	12.35	35.63	712-1216-2-ND	15,000	34.20/M	250R05L180GV4T
	NPO	25	18	±5%	0.30 ±0.03	712-1217-1-NDΔ	1.05	6.18	17.81	712-1217-2-ND	15,000	17.10/M	250R05L180JV4T
	NPO	25	20	±2%	0.30 ±0.03	712-1218-1-ND	2.09	12.35	35.63	712-1218-2-ND	15,000	34.20/M	250R05L200GV4T
	NPO	25	20	±5%	0.30 ±0.03	712-1219-1-ND	1.05	6.18	17.81	712-1219-2-ND	15,000	17.10/M	250R05L200JV4T
	NPO	25	22	±2%	0.30 ±0.03	712-1220-1-ND	2.09	12.35	35.63	712-1220-2-ND	15,000	34.20/M	250R05L220GV4T
	NPO	25	22	±5%	0.30 ±0.03	712-1221-1-NDΔ	1.05	6.18	17.81	712-1221-2-ND	15,000	17.10/M	250R05L220JV4T
	NPO	25	27	±2%	0.30 ±0.03	712-1222-1-ND	2.09	12.35	35.63	712-1222-2-ND	15,000	34.20/M	250R05L270GV4T
	NPO	25	27	±5%	0.30 ±0.03	712-1223-1-ND	1.05	6.18	17.81	712-1223-2-ND	15,000	17.10/M	250R05L270JV4T
	NPO	25	30	±2%	0.30 ±0.03	712-1224-1-ND	2.09	12.35	35.63	712-1224-2-ND	15,000	34.20/M	250R05L300GV4T
	NPO	25	30	±5%	0.30 ±0.03	712-1225-1-ND	1.05	6.18	17.81	712-1225-2-ND	15,000	17.10/M	250R05L300JV4T
	NPO	25	33	±2%	0.30 ±0.03	712-1226-1-ND	2.09	12.35	35.63	712-1226-2-ND	15,000	34.20/M	250R05L330GV4T
	NPO	25	33	±5%	0.30 ±0.03	712-1227-1-NDΔ	1.05	6.18	17.81	712-1227-2-ND	15,000	17.10/M	250R05L330JV4T
	NPO	25	36	±2%	0.30 ±0.03	712-1228-1-ND	2.09	12.35	35.63	712-1228-2-ND	15,000	34.20/M	250R05L360GV4T
	NPO	25	36	±5%	0.30 ±0.03	712-1229-1-ND	1.05	6.18	17.81	712-1229-2-ND	15,000	17.10/M	250R05L360JV4T
	NPO	25	39	±2%	0.30 ±0.03	712-1230-1-ND	2.09	12.35	35.63	712-1230-2-ND	15,000	34.20/M	250R05L390GV4T
	NPO	25	39	±5%	0.30 ±0.03	712-1231-1-ND	1.05	6.18	17.81	712-1231-2-ND	15,000	17.10/M	250R05L390JV4T
	NPO	25	43	±2%	0.30 ±0.03	712-1232-1-ND	3.52	20.80	60.00	712-1232-2-ND	15,000	57.60/M	250R05L430GV4T
	NPO	25	43	±5%	0.30 ±0.03	712-1233-1-ND	1.76	10.40	30.00	712-1233-2-ND	15,000	28.80/M	250R05L430JV4T
	NPO	25	47	±2%	0.30 ±0.03	712-1234-1-ND	3.52	20.80	60.00	712-1234-2-ND	15,000	57.60/M	250R05L470GV4T
	NPO	25	47	±5%	0.30 ±0.03	712-1235-1-ND	1.76	10.40	30.00	712-1235-2-ND	15,000	28.80/M	250R05L470JV4T
	NPO	25	56	±2%	0.30 ±0.03	712-1236-1-ND	3.52	20.80	60.00	—	—	—	250R05L560GV4T
	NPO	25	56	±5%	0.30 ±0.03	712-1237-1-ND	1.76	10.40	30.00	712-1237-2-ND	15,000	28.80/M	250R05L560JV4T
	NPO	25	68	±2%	0.30 ±0.03	712-1238-1-ND	3.52	20.80	60.00	712-1238-2-ND	15,000	57.60/M	250R05L680GV4T
	NPO	25	68	±5%	0.30 ±0.03	712-1239-1-ND	1.76	10.40	30.00	712-1239-2-ND	15,000	28.80/M	250R05L680JV4T
	NPO	25	82	±2%	0.30 ±0.03	712-1240-1-ND	3.52	20.80	60.00	712-1240-2-ND	15,000	57.60/M	250R05L820GV4T
	NPO	25	82	±5%	0.30 ±0.03	712-1241-1-ND	1.76	10.40	30.00	712-1241-2-ND	15,000	28.80/M	250R05L820JV4T
	NPO	25	100	±2%	0.30 ±0.03	712-1242-1-ND	2.53	14.95	43.13	712-1242-2-ND	15,000	41.40/M	250R05L101GV4T
	NPO	25	100	±5%	0.30 ±0.03	712-1243-1-ND	1.27	7.48	21.56	712-1243-2-ND	15,000	20.70/M	250R05L101JV4T.
	NPO	25	30	±2%	0.51 ±0.1	712-1295-1-ND	4.37	25.80	74.42	712-1295-2-ND	10,000	71.45/M	250R07S300GV4T
	NPO	25	30	±5%	0.51 ±0.1	712-1296-1-ND▼	1.94	11.47	33.08	712-1296-2-ND	10,000	31.76/M	250R07S300JV4T
	NPO	25	33	±2%	0.51 ±0.1	712-1297-1-ND	4.37	25.80	74.42	712-1297-2-ND	10,000	71.45/M	250R07S330GV4T
	NPO	25	33	±5%	0.51 ±0.1	712-1298-1-ND	1.94	11.47	33.08	712-1298-2-ND	10,000	31.76/M	250R07S330JV4T
0402	NPO (S Dielectric)	50	0.2	±0.05pF	0.51 ±0.1	712-1244-1-ND	1.70	10.04	28.95	712-1244-2-ND	10,000	27.80/M	500R07S0R2AV4T
	NPO (S Dielectric)	50	0.2	±0.10pF	0.51 ±0.1	712-1160-1-ND▼	1.13	6.69	19.29	712-1160-2-ND	10,000	18.53/M	500R07S0R2BV4T
	NPO (S Dielectric)	50	0.3	±0.05pF	0.51 ±0.1	712-1245-1-ND	1.70	10.04	28.95	712-1245-2-ND	10,000	27.80/M	500R07S0R3AV4T
	NPO (S Dielectric)	50	0.3	±0.10pF	0.51 ±0.1	712-1161-1-ND§▼	1.13	6.69	19.29	712-1161-2-ND	10,000	18.53/M	500R07S0R3BV4T
	NPO (S Dielectric)	50	0.4	±0.05pF	0.51 ±0.1	712-1246-1-ND	1.70	10.04	28.95	712-1246-2-ND	10,000	27.80/M	500R07S0R4AV4T
	NPO (S Dielectric)	50	0.5	±0.05pF	0.51 ±0.1	712-1247-1-ND	1.70	10.04	28.95	712-1247-2-ND	10,000	27.80/M	500R07S0R5AV4T
	NPO (S Dielectric)	50	0.5	±0.10pF	0.51 ±0.1	712-1162-1-ND§▼	1.13	6.69	19.29	712-1162-2-ND	10,000	18.53/M	500R07S0R5BV4T
	NPO (S Dielectric)	50	0.6	±0.05pF	0.51 ±0.1	712-1248-1-ND	2.67	15.77	45.49	712-1248-2-ND	10,000	43.67/M	500R07S0R6AV4T
	NPO (S Dielectric)	50	0.7	±0.05pF	0.51 ±0.1	712-1249-1-ND	2.67	15.77	45.49	712-1249-2-ND	10,000	43.67/M	500R07S0R7AV4T
	NPO (S Dielectric)	50	0.7	±0.10pF	0.51 ±0.1	712-1163-1-ND▼	1.48	8.76	25.28	712-1163-2-ND	10,000	24.27/M	500R07S0R7BV4T
	NPO (S Dielectric)	50	0.8	±0.10pF	0.51 ±0.1	712-1250-1-ND	1.48	8.76	25.28	712-1250-2-ND	10,000	24.27/M	500R07S0R8BV4T
	NPO (S Dielectric)	50	0.9	±0.10pF	0.51 ±0.1	712-1251-1-ND▼	1.48	8.76	25.28	712-1251-2-ND	10,000	24.27/M	500R07S0R9BV4T
	NPO (S Dielectric)	50	1.0	±0.10pF	0.51 ±0.1	712-1266-1-ND§▼	1.48	8.76	25.28	712-1266-2-ND	10,000	24.27/M	500R07S1R0BV4T
	NPO (S Dielectric)	50	1.2	±0.10pF	0.51 ±0.1	712-1268-1-ND▼	1.70	10.04	28.95	712-1268-2-ND	10,000	27.80/M	500R07S1R2BV4T
	NPO (S Dielectric)	50	1.3	±0.10pF	0.51 ±0.1	712-1269-1-ND	1.70	10.04	28.95	712-1269-2-ND	10,000	27.80/M	500R07S1R3BV4T
	NPO (S Dielectric)	50	1.5	±0.10pF	0.51 ±0.1	712-1270-1-ND§▼	1.70	10.04	28.95	712-1270-2-ND	10,000	27.80/M	500R07S1R5BV4T
	NPO (S Dielectric)	50	1.8	±0.10pF	0.51 ±0.1	712-1271-1-ND§▼	1.70	10.04	28.95	712-1271-2-ND	10,000	27.80/M	500R07S1R8BV4T
	NPO (S Dielectric)	50	2.0	±0.10pF	0.51 ±0.1	712-1278-1-ND▼	1.65	9.75	28.13	712-1278-2-ND	10,000	27.00/M	500R07S2R0BV4T
	NPO (S Dielectric)	50	2.2	±0.10pF	0.51 ±0.1	712-1279-1-ND§▼	2.97	17.55	50.63	712-1279-2-ND	10,000	48.60/M	500R07S2R2BV4T
	NPO (S Dielectric)	50	2.4	±0.10pF	0.51 ±0.1	712-1280-1-ND▼	2.97	17.55	50.63	712-1280-2-ND	10,000	48.60/M	500R07S2R4BV4T

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Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
							10	100	500		Qty.	Pricing	
0402	NPO (S Dielectric)	50	2.7	±0.10pF	0.51 ±0.1	712-1281-1-ND§▼	2.97	17.55	50.63	712-1281-2-ND	10,000	48.60/M	500R07S2R7BV4T
	NPO (S Dielectric)	50	3.0	±0.10pF	0.51 ±0.1	712-1282-1-ND▼	2.97	17.55	50.63	712-1282-2-ND	10,000	48.60/M	500R07S3R0BV4T
	NPO (S Dielectric)	50	3.3	±0.10pF	0.51 ±0.1	712-1283-1-ND§	2.97	17.55	50.63	712-1283-2-ND	10,000	48.60/M	500R07S3R3BV4T
	NPO (S Dielectric)	50	3.6	±0.10pF	0.51 ±0.1	712-1164-1-ND▼	2.97	17.55	50.63	712-1164-2-ND	10,000	48.60/M	500R07S3R6BV4T
	NPO (S Dielectric)	50	3.6	±0.25pF	0.51 ±0.1	712-1284-1-ND	1.56	9.24	26.64	—	—	—	500R07S3R6CV4T
	NPO (S Dielectric)	50	3.9	±0.10pF	0.51 ±0.1	712-1401-1-ND§	2.97	17.55	50.63	712-1401-2-ND	10,000	48.60/M	500R07S3R9BV4T
	NPO (S Dielectric)	50	3.9	±0.25pF	0.51 ±0.1	712-1285-1-ND	1.56	9.24	26.64	712-1285-2-ND	10,000	25.58/M	500R07S3R9CV4T
	NPO (S Dielectric)	50	4.3	±0.10pF	0.51 ±0.1	712-1165-1-ND▼	2.97	17.55	50.63	712-1165-2-ND	10,000	48.60/M	500R07S4R3BV4T
	NPO (S Dielectric)	50	4.3	±0.25pF	0.51 ±0.1	712-1286-1-ND	1.56	9.24	26.64	712-1286-2-ND	10,000	25.58/M	500R07S4R3CV4T
	NPO (S Dielectric)	50	4.7	±0.10pF	0.51 ±0.1	712-1166-1-ND§▼	2.97	17.55	50.63	712-1166-2-ND	10,000	48.60/M	500R07S4R7BV4T
	NPO (S Dielectric)	50	4.7	±0.25pF	0.51 ±0.1	712-1287-1-ND	1.56	9.24	26.64	712-1287-2-ND	10,000	25.58/M	500R07S4R7CV4T
	NPO (S Dielectric)	50	5.1	±0.25pF	0.51 ±0.1	712-1288-1-ND	1.94	11.47	33.08	712-1288-2-ND	10,000	31.76/M	500R07S5R1CV4T
	NPO (S Dielectric)	50	5.6	±0.25pF	0.51 ±0.1	712-1289-1-ND§▼	1.94	11.47	33.08	712-1289-2-ND	10,000	31.76/M	500R07S5R6CV4T
	NPO (S Dielectric)	50	6.2	±0.25pF	0.51 ±0.1	712-1290-1-ND	1.94	11.47	33.08	712-1290-2-ND	10,000	31.76/M	500R07S6R2CV4T
	NPO (S Dielectric)	50	6.8	±0.25pF	0.51 ±0.1	712-1291-1-ND§▼	1.94	11.47	33.08	712-1291-2-ND	10,000	31.76/M	500R07S6R8CV4T
	NPO (S Dielectric)	50	7.5	±0.25pF	0.51 ±0.1	712-1292-1-ND▼	1.94	11.47	33.08	—	—	—	500R07S7R5CV4T
	NPO (S Dielectric)	50	8.2	±0.25pF	0.51 ±0.1	712-1293-1-ND§▼	1.94	11.47	33.08	712-1293-2-ND	10,000	31.76/M	500R07S8R2CV4T
	NPO (S Dielectric)	50	9.1	±0.25pF	0.51 ±0.1	712-1294-1-ND▼	1.94	11.47	33.08	712-1294-2-ND	10,000	31.76/M	500R07S9R1CV4T
	NPO (S Dielectric)	50	10	±2%	0.51 ±0.1	712-1252-1-ND	4.37	25.80	74.42	712-1252-2-ND	10,000	71.45/M	500R07S100GV4T
	NPO (S Dielectric)	50	10	±5%	0.51 ±0.1	712-1253-1-ND§▼	1.94	11.47	33.08	712-1253-2-ND	10,000	31.76/M	500R07S100JV4T
	NPO (S Dielectric)	50	11	±2%	0.51 ±0.1	712-1254-1-ND	4.37	25.80	74.42	712-1254-2-ND	10,000	71.45/M	500R07S110GV4T
	NPO (S Dielectric)	50	11	±5%	0.51 ±0.1	712-1255-1-ND	1.94	11.47	33.08	712-1255-2-ND	10,000	31.76/M	500R07S110JV4T
	NPO (S Dielectric)	50	12	±2%	0.51 ±0.1	712-1256-1-ND	4.37	25.80	74.42	712-1256-2-ND	10,000	71.45/M	500R07S120GV4T
	NPO (S Dielectric)	50	12	±5%	0.51 ±0.1	712-1257-1-ND▼	1.94	11.47	33.08	712-1257-2-ND	10,000	31.76/M	500R07S120JV4T
	NPO (S Dielectric)	50	13	±2%	0.51 ±0.1	712-1258-1-ND	4.37	25.80	74.42	712-1258-2-ND	10,000	71.45/M	500R07S130GV4T
	NPO (S Dielectric)	50	13	±5%	0.51 ±0.1	712-1259-1-ND	1.94	11.47	33.08	712-1259-2-ND	10,000	31.76/M	500R07S130JV4T
	NPO (S Dielectric)	50	15	±2%	0.51 ±0.1	712-1260-1-ND	4.37	25.80	74.42	712-1260-2-ND	10,000	71.45/M	500R07S150GV4T
	NPO (S Dielectric)	50	15	±5%	0.51 ±0.1	712-1261-1-ND▼	1.94	11.47	33.08	712-1261-2-ND	10,000	31.76/M	500R07S150JV4T
	NPO (S Dielectric)	50	16	±2%	0.51 ±0.1	712-1262-1-ND	4.37	25.80	74.42	712-1262-2-ND	10,000	71.45/M	500R07S160GV4T
	NPO (S Dielectric)	50	16	±5%	0.51 ±0.1	712-1263-1-ND	1.94	11.47	33.08	712-1263-2-ND	10,000	31.76/M	500R07S160JV4T
	NPO (S Dielectric)	50	18	±2%	0.51 ±0.1	712-1264-1-ND	4.37	25.80	74.42	712-1264-2-ND	10,000	71.45/M	500R07S180GV4T
	NPO (S Dielectric)	50	18	±5%	0.51 ±0.1	712-1265-1-ND	1.94	11.47	33.08	—	—	—	500R07S180JV4T
	NPO (S Dielectric)	50	20	±2%	0.51 ±0.1	712-1272-1-ND	4.37	25.80	74.42	712-1272-2-ND	10,000	71.45/M	500R07S200GV4T
	NPO (S Dielectric)	50	20	±5%	0.51 ±0.1	712-1273-1-ND	1.94	11.47	33.08	712-1273-2-ND	10,000	31.76/M	500R07S200JV4T
	NPO (S Dielectric)	50	22	±2%	0.51 ±0.1	712-1274-1-ND	4.37	25.80	74.42	712-1274-2-ND	10,000	71.45/M	500R07S220GV4T
	NPO (S Dielectric)	50	22	±5%	0.51 ±0.1	712-1275-1-ND▼	1.94	11.47	33.08	712-1275-2-ND	10,000	31.76/M	500R07S220JV4T
	NPO (S Dielectric)	50	27	±2%	0.51 ±0.1	712-1276-1-ND	4.37	25.80	74.42	712-1276-2-ND	10,000	71.45/M	500R07S270GV4T
	NPO (S Dielectric)	50	27	±5%	0.51 ±0.1	712-1277-1-ND▼	1.94	11.47	33.08	712-1277-2-ND	10,000	31.76/M	500R07S270JV4T
0603	NPO (S Dielectric)	250	0.2	±0.05pF	0.81	712-1299-1-ND	5.20	30.71	88.59	712-1299-2-ND	4,000	85.05/M	251R14S0R2AV4T
	NPO (S Dielectric)	250	0.3	±0.05pF	0.81	712-1300-1-ND	5.20	30.71	88.59	712-1300-2-ND	4,000	85.05/M	251R14S0R3AV4T
	NPO (S Dielectric)	250	0.3	±0.10pF	0.81	712-1167-1-ND★	2.60	15.35	44.29	712-1167-2-ND	4,000	42.52/M	251R14S0R3BV4T
	NPO (S Dielectric)	250	0.4	±0.05pF	0.81	712-1301-1-ND	5.20	30.71	88.59	712-1301-2-ND	4,000	85.05/M	251R14S0R4AV4T
	NPO (S Dielectric)	250	0.5	±0.05pF	0.81	712-1302-1-ND	5.20	30.71	88.59	712-1302-2-ND	4,000	85.05/M	251R14S0R5AV4T
	NPO (S Dielectric)	250	0.5	±0.10pF	0.81	712-1168-1-ND★	2.60	15.35	44.29	712-1168-2-ND	4,000	42.52/M	251R14S0R5BV4T
	NPO (S Dielectric)	250	0.6	±0.05pF	0.81	712-1303-1-ND	5.20	30.71	88.59	712-1303-2-ND	4,000	85.05/M	251R14S0R6AV4T
	NPO (S Dielectric)	250	0.7	±0.05pF	0.81	712-1304-1-ND	5.20	30.71	88.59	712-1304-2-ND	4,000	85.05/M	251R14S0R7AV4T
	NPO (S Dielectric)	250	0.8	±0.10pF	0.81	712-1305-1-ND★	2.60	15.35	44.29	712-1305-2-ND	4,000	42.52/M	251R14S0R8BV4T
	NPO (S Dielectric)	250	0.9	±0.10pF	0.81	712-1306-1-ND	2.60	15.35	44.29	712-1306-2-ND	4,000	42.52/M	251R14S0R9BV4T
	NPO (S Dielectric)	250	1.0	±0.10pF	0.81	712-1323-1-ND★	2.60	15.35	44.29	712-1323-2-ND	4,000	42.52/M	251R14S1R0BV4T
	NPO (S Dielectric)	250	1.1	±0.10pF	0.81	712-1324-1-ND	2.60	15.35	44.29	712-1324-2-ND	4,000	42.52/M	251R14S1R1BV4T
	NPO (S Dielectric)	250	1.2	±0.10pF	0.81	712-1325-1-ND★	2.60	15.35	44.29	712-1325-2-ND	4,000	42.52/M	251R14S1R2BV4T
	NPO (S Dielectric)	250	1.3	±0.10pF	0.81	712-1326-1-ND	2.60	15.35	44.29	712-1326-2-ND	4,000	42.52/M	251R14S1R3BV4T
	NPO (S Dielectric)	250	1.5	±0.10pF	0.81	712-1327-1-ND★	2.60	15.35	44.29	712-1327-2-ND	4,000	42.52/M	251R14S1R5BV4T
	NPO (S Dielectric)	250	1.8	±0.10pF	0.81	712-1328-1-ND★	2.60	15.35	44.29	712-1328-2-ND	4,000	42.52/M	251R14S1R8BV4T
	NPO (S Dielectric)	250	2.0	±0.10pF	0.81	712-1335-1-ND	2.60	15.35	44.29	712-1335-2-ND	4,000	42.52/M	251R14S2R0BV4T
	NPO (S Dielectric)	250	2.2	±0.10pF	0.81	712-1336-1-ND★	3.56	21.06	60.75	712-1336-2-ND	4,000	58.32/M	251R14S2R2BV4T
	NPO (S Dielectric)	250	2.4	±0.10pF	0.81	712-1337-1-ND	3.56	21.06	60.75	712-1337-2-ND	4,000	58.32/M	251R14S2R4BV4T
	NPO (S Dielectric)	250	2.7	±0.10pF	0.81	712-1338-1-ND★	3.56	21.06	60.75	712-1338-2-ND	4,000	58.32/M	251R14S2R7BV4T
	NPO (S Dielectric)	250	3.0	±0.10pF	0.81	712-1347-1-ND	3.56	21.06	60.75	712-1347-2-ND	4,000	58.32/M	251R14S3R0BV4T
	NPO (S Dielectric)	250	3.3	±0.10pF	0.81	712-1348-1-ND★	3.56	21.06	60.75	712-1348-2-ND	4,000	58.32/M	251R14S3R3BV4T
	NPO (S Dielectric)	250	3.6	±0.10pF	0.81	712-1170-1-ND★	3.56	21.06	60.75	712-1170-2-ND	4,000	58.32/M	251R14S3R6BV4T
	NPO (S Dielectric)	250	3.6	±0.25pF	0.81	712-1349-1-ND	2.38	14.04	40.50	712-1349-2-ND	4,000	38.88/M	251R14S3R6CV4T
	NPO (S Dielectric)	250	3.9	±0.10pF	0.81	712-1171-1-ND★	3.56	21.06	60.75	712-1171-2-ND	4,000	58.32/M	251R14S3R9BV4T
	NPO (S Dielectric)	250	3.9	±0.25pF	0.81	712-1350-1-ND	2.38	14.04	40.50	712-1350-2-ND	4,000	38.88/M	251R14S3R9CV4T
	NPO (S Dielectric)	250	4.3	±0.25pF	0.81	712-1355-1-ND	2.38	14.04	40.50	712-1355-2-ND	4,000	38.88/M	251R14S4R3CV4T
	NPO (S Dielectric)	250	4.7	±0.10pF	0.81	712-1172-1-ND★	3.56	21.06	60.75	712-1172-2-ND	4,000	58.32/M	251R14S4R7BV4T
	NPO (S Dielectric)	250	4.7	±0.25pF	0.81	712-1356-1-ND	2.38	14.04	40.50	712-1356-2-ND	4,000	38.88/M	251R14S4R7CV4T
	NPO (S Dielectric)	250	5.1	±0.25pF	0.81	712-1359-1-ND	3.27	19.31	55.69	712-1359-2-ND	4,000	53.46/M	251R14S5R1CV4T
	NPO (S Dielectric)	250	5.6	±0.25pF	0.81	712-1360-1-ND★	3.27	19.31	55.69	712-1360-2-ND	4,000	53.46/M	251R14S5R6CV4T
	NPO (S Dielectric)	250	6.2	±0.25pF	0.81	712-1363-1-ND	3.27	19.31	55.69	712-1363-2-ND	4,000	53.46/M	251R14S6R2CV4T
	NPO (S Dielectric)	250	6.8	±0.25pF	0.81	712-1364-1-ND★	3.27	19.31	55.69	712-1364-2-ND	4,000	53.46/M	251R14S6R8CV4T
	NPO (S Dielectric)	250	7.5	±0.25pF	0.81	712-1365-1-ND	3.27	19.31	55.69	712-1365-2-ND	4,000	53.46/M	251R14S7R5CV4T
	NPO (S Dielectric)	250	8.2	±0.25pF	0.81	712-1368-1-ND★	3.27	19.31	55.69	712-1368-2-ND	4,000	53.46/M	251R14S8R2CV4T
	NPO (S Dielectric)	250	9.1	±0.25pF	0.81	712-1369-1-ND	3.27	19.31	55.69	712-1369-2-ND	4,000	53.46/M	251R14S9R1CV4T
	NPO (S Dielectric)	250	10	±2%	0.81	712-1307-1-ND	6.95	41.07	118.46	712-1307-2-ND	4,000	113.73/M	251R14S100GV4T
	NPO (S Dielectric)	250	10	±5%	0.81	712-1308-1-ND★	3.86	22.82	65.81	712-1308-2-ND	4,000	63.18/M	251R14S100JV4T
	NPO (S Dielectric)	250	11	±2%	0.81	712-1311-1-ND	6.95	41.07	118.46	712-1311-2-ND	4,000	113.73/M	251R14S110GV4T
	NPO (S Dielectric)	250	11	±5%	0.81	712-1312-1-ND	3.86	22.82	65.81	712-1312-2-ND	4,000	63.18/M	251R14S110JV4T
	NPO (S Dielectric)	250	12	±2%	0.81	712-1313-1-ND	6.95	41.07	118.46	712-1313-2-ND	4,000	113.73/M	251R14S120GV4T
	NPO (S Dielectric)	250	12	±5%	0.81	712-1314-1-ND★	3.86	22.82	65.81	712-1314-2-ND	4,000	63.18/M	251R14S120JV4T
	NPO (S Dielectric)	250	13	±2%	0.81	712-1315-1-ND	6.95	41.07	118.46	712-1315-2-ND	4,000	113.73/M	251R14S130GV4T
	NPO (S Dielectric)	250	13	±5%	0.81	712-1316-1-ND	3.86	22.82	65.81	712-1316-2-ND	4,000	63.18/M	251R14S130JV4T
	NPO (S Dielectric)	250	15	±2%	0.81	712-1317-1-ND	6.95	41.07	118.46	712-1317-2-ND	4,000	113.73/M	251R14S150GV4T
	NPO (S Dielectric)	250	15	±5%	0.81	712-1318-1-ND★	3.86	22.82	65.81	712-1318-2-ND	4,000	63.18/M	251R14S150JV4T
	NPO (S Dielectric)	250	16	±2%	0.81	712-1319-1-ND	6.95	41.07	118.46	712-1319-2-ND	4,000	113.73/M	251R14S160GV4T
	NPO (S Dielectric)	250	16	±5%	0.81	712-1320-1-ND	3.86	22.82	65.81	712-1320-2-ND	4,000	63.18/M	251R14S160JV4T
	NPO (S Dielectric)	250	18	±2%	0.81	712-1321-1-ND	6.95	41.07	118.46	712-1321-2-ND	4,000	113.73/M	251R14S180GV4T
	NPO (S Dielectric)	250	18	±5%	0.81	712-1322-1-ND★	3.86	22.82	65.81	712-1322-2-ND	4,000	63.18/M	251R14S180JV4T
	NPO (S Dielectric)	250	20	±2%	0.81	712-1329-1-ND	6.95	41.07	118.46	712-1329-2-ND	4,000	113.73/M	251R14S200GV4T
	NPO (S Dielectric)	250	20	±5%	0.81	712-1330-1-ND★	3.86	22.82	65.81	712-1330-2-ND	4,000	63.18/M	251R14S200JV4T
	NPO (S Dielectric)	250	22	±2%	0.81	712-1331-1-ND	6.95	41.07	118.46	712-1331-2-ND	4,000	113.73/M	251R14S220GV4T
	NPO (S Dielectric)	250	22	±5%	0.81	712-1332-1-ND	3.86	22.82	65.81	712-1332-2-ND	4,000	63.18/M	251R14S220JV4T
	NPO (S Dielectric)	250	24	±5%	0.81	712-1169-1-ND★	4.65	27.50	79.31	712-1169-2-ND	4,000	76.14/M	251R14S240JV4T
	NPO (S Dielectric)	250	27	±2%	0.81	712-1333-1-ND	8.38	49.49	142.76	712-1333-2-ND	4,000	137.06/M	251R14S270GV4T
	NPO (S Dielectric)	250	27	±5%	0.81	712-1334-1-ND★	4.65	27.50	79.31	712-1334-2-ND	4,000	76.14/M	251R14S270JV4T
	NPO (S Dielectric)	250	30	±2%	0.81	712-1339-1-ND	8.38	49.49	142.76	712-1339-2-ND	4,000	137.06/M	251R14S300GV4T
	NPO (S Dielectric)	250	30	±5%	0.81	712-1340-1-ND	4.65	27.50	79.31	712-1340-2-ND	4,000	76.14/M	251R14S300JV4T
	NPO (S Dielectric)	250	33	±2%	0.81	712-1341-1-ND	8.38	49.49	142.76	712-1341-2-ND	4,000	137.06/M	251R14S330GV4T

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Multi-Layer High-Q Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
0603	NPO (S Dielectric)	250	33	±5%	0.81	712-1342-1-ND★	4.65	27.50	79.31	712-1342-2-ND	4,000	76.14/M	251R14S330JV4T
	NPO (S Dielectric)	250	36	±2%	0.81	712-1343-1-ND	8.38	49.49	142.76	712-1343-2-ND	4,000	137.06/M	251R14S360GV4T
	NPO (S Dielectric)	250	36	±5%	0.81	712-1344-1-ND	4.65	27.50	79.31	—	—	—	251R14S360JV4T
	NPO (S Dielectric)	250	39	±2%	0.81	712-1345-1-ND	8.38	49.49	142.76	712-1345-2-ND	4,000	137.06/M	251R14S390GV4T
	NPO (S Dielectric)	250	39	±5%	0.81	712-1346-1-ND★	4.65	27.50	79.31	712-1346-2-ND	4,000	76.14/M	251R14S390JV4T
	NPO (S Dielectric)	250	43	±2%	0.81	712-1351-1-ND	8.38	49.49	142.76	712-1351-2-ND	4,000	137.06/M	251R14S430GV4T
	NPO (S Dielectric)	250	43	±5%	0.81	712-1352-1-ND	4.65	27.50	79.31	712-1352-2-ND	4,000	76.14/M	251R14S430JV4T
	NPO (S Dielectric)	250	47	±2%	0.81	712-1353-1-ND	8.38	49.49	142.76	712-1353-2-ND	4,000	137.06/M	251R14S470GV4T
	NPO (S Dielectric)	250	47	±5%	0.81	712-1354-1-ND★	4.65	27.50	79.31	712-1354-2-ND	4,000	76.14/M	251R14S470JV4T
	NPO (S Dielectric)	250	56	±2%	0.81	712-1357-1-ND	10.01	59.15	170.63	—	—	—	251R14S560GV4T
	NPO (S Dielectric)	250	56	±5%	0.81	712-1358-1-ND	5.50	32.50	93.75	712-1358-2-ND	4,000	90.00/M	251R14S560JV4T
	NPO (S Dielectric)	250	68	±2%	0.81	712-1361-1-ND	10.01	59.15	170.63	712-1361-2-ND	4,000	163.80/M	251R14S680GV4T
	NPO (S Dielectric)	250	68	±5%	0.81	712-1362-1-ND★	5.50	32.50	93.75	712-1362-2-ND	4,000	90.00/M	251R14S680JV4T
	NPO (S Dielectric)	250	82	±2%	0.81	712-1366-1-ND	10.01	59.15	170.63	712-1366-2-ND	4,000	163.80/M	251R14S820GV4T
	NPO (S Dielectric)	250	82	±5%	0.81	712-1367-1-ND★	5.50	32.50	93.75	712-1367-2-ND	4,000	90.00/M	251R14S820JV4T
	NPO (S Dielectric)	250	100	±2%	0.81	712-1309-1-ND	10.01	59.15	170.63	712-1309-2-ND	4,000	163.80/M	251R14S101GV4T
	NPO (S Dielectric)	250	100	±5%	0.81	712-1310-1-ND	5.50	32.50	93.75	712-1310-2-ND	4,000	90.00/M	251R14S101JV4T
0805	NPO (S Dielectric)	250	4.7	±0.10pF	1.02 ±0.15	712-1371-1-ND◊	5.83	34.45	99.38	712-1371-2-ND	4,000	95.40/M	251R15S4R7BV4E
	NPO (S Dielectric)	250	5.6	±0.25pF	1.02 ±0.15	712-1372-1-ND◊	3.30	19.50	56.25	712-1372-2-ND	4,000	54.00/M	251R15S5R6CV4E
	NPO (S Dielectric)	250	6.8	±0.25pF	1.02 ±0.15	712-1373-1-ND◊	4.07	24.05	69.38	712-1373-2-ND	4,000	66.60/M	251R15S6R8CV4E
	NPO (S Dielectric)	250	7.5	±0.25pF	1.02 ±0.15	712-1374-1-ND◊	4.07	24.05	69.38	712-1374-2-ND	4,000	66.60/M	251R15S7R5CV4E
	NPO (S Dielectric)	250	8.2	±0.25pF	1.02 ±0.15	712-1375-1-ND◊	4.07	24.05	69.38	712-1375-2-ND	4,000	66.60/M	251R15S8R2CV4E
	NPO (S Dielectric)	250	9.1	±0.25pF	1.02 ±0.15	712-1376-1-ND◊	4.07	24.05	69.38	712-1376-2-ND	4,000	66.60/M	251R15S9R1CV4E
	NPO (S Dielectric)	250	10	±5%	1.02 ±0.15	712-1377-1-ND◊	4.29	25.35	73.13	—	—	—	251R15S100JV4E
	NPO (S Dielectric)	250	12	±5%	1.02 ±0.15	712-1378-1-ND◊	4.29	25.35	73.13	712-1378-2-ND	4,000	70.20/M	251R15S120JV4E
	NPO (S Dielectric)	250	15	±5%	1.02 ±0.15	712-1379-1-ND◊	4.29	25.35	73.13	—	—	—	251R15S150JV4E
	NPO (S Dielectric)	250	18	±5%	1.02 ±0.15	712-1380-1-ND◊	4.29	25.35	73.13	712-1380-2-ND	4,000	70.20/M	251R15S180JV4E
	NPO (S Dielectric)	250	20	±5%	1.02 ±0.15	712-1381-1-ND◊	4.62	27.30	78.75	712-1381-2-ND	4,000	75.60/M	251R15S200JV4E
	NPO (S Dielectric)	250	22	±5%	1.02 ±0.15	712-1382-1-ND◊	4.62	27.30	78.75	712-1382-2-ND	4,000	75.60/M	251R15S220JV4E
	NPO (S Dielectric)	250	24	±5%	1.02 ±0.15	712-1383-1-ND◊	4.62	27.30	78.75	712-1383-2-ND	4,000	75.60/M	251R15S240JV4E
	NPO (S Dielectric)	250	27	±5%	1.02 ±0.15	712-1384-1-ND◊	4.62	27.30	78.75	712-1384-2-ND	4,000	75.60/M	251R15S270JV4E
	NPO (S Dielectric)	250	30	±5%	1.02 ±0.15	712-1385-1-ND◊	4.62	27.30	78.75	—	—	—	251R15S300JV4E
	NPO (S Dielectric)	250	33	±5%	1.02 ±0.15	712-1386-1-ND◊	4.62	27.30	78.75	712-1386-2-ND	4,000	75.60/M	251R15S330JV4E
	NPO (S Dielectric)	250	36	±5%	1.02 ±0.15	712-1387-1-ND◊	4.62	27.30	78.75	712-1387-2-ND	4,000	75.60/M	251R15S360JV4E
	NPO (S Dielectric)	250	39	±5%	1.02 ±0.15	712-1388-1-ND◊	4.62	27.30	78.75	712-1388-2-ND	4,000	75.60/M	251R15S390JV4E
	NPO (S Dielectric)	250	43	±5%	1.02 ±0.15	712-1389-1-ND◊	4.62	27.30	78.75	712-1389-2-ND	4,000	75.60/M	251R15S430JV4E
	NPO (S Dielectric)	250	47	±5%	1.02 ±0.15	712-1390-1-ND◊	4.62	27.30	78.75	712-1390-2-ND	4,000	75.60/M	251R15S470JV4E
	NPO (S Dielectric)	250	56	±5%	1.02 ±0.15	712-1391-1-ND◊	5.17	30.55	88.13	712-1391-2-ND	4,000	84.60/M	251R15S560JV4E
	NPO (S Dielectric)	250	68	±5%	1.02 ±0.15	712-1392-1-ND◊	5.17	30.55	88.13	712-1392-2-ND	4,000	84.60/M	251R15S680JV4E
	NPO (S Dielectric)	250	82	±5%	1.02 ±0.15	712-1393-1-ND◊	5.17	30.55	88.13	712-1393-2-ND	4,000	84.60/M	251R15S820JV4E
	NPO (S Dielectric)	250	100	±5%	1.02 ±0.15	712-1394-1-ND◊	5.17	30.55	88.13	712-1394-2-ND	4,000	84.60/M	251R15S101JV4E
	NPO (S Dielectric)	250	120	±5%	1.02 ±0.15	712-1395-1-ND◊	6.16	36.40	105.00	712-1395-2-ND	4,000	100.80/M	251R15S121JV4E
	NPO (S Dielectric)	250	150	±5%	1.02 ±0.15	712-1396-1-ND◊	6.16	36.40	105.00	712-1396-2-ND	4,000	100.80/M	251R15S151JV4E
	NPO (S Dielectric)	250	180	±5%	1.02 ±0.15	712-1397-1-ND◊	6.60	39.00	112.50	712-1397-2-ND	4,000	108.00/M	251R15S181JV4E
	NPO (S Dielectric)	250	220	±5%	1.02 ±0.15	712-1398-1-ND◊	6.60	39.00	112.50	712-1398-2-ND	4,000	108.00/M	251R15S221JV4E
1111	NPO	500	1.0	±0.10pF	2.59	712-1504-1-ND✻	29.70	175.50	506.25	712-1504-2-ND	2,000	486.00/M	501S42E1R0BV4E
	NPO	500	3.9	±0.10pF	2.59	712-1505-1-ND✻	40.70	240.50	693.75	712-1505-2-ND	2,000	666.00/M	501S42E3R9BV4E
	NPO	500	4.7	±0.10pF	2.59	712-1506-1-ND✻	40.70	240.50	693.75	712-1506-2-ND	2,000	666.00/M	501S42E4R7BV4E
	NPO	500	6.8	±0.25pF	2.59	712-1507-1-ND✻	30.80	182.00	525.00	712-1507-2-ND	2,000	504.00/M	501S42E6R8CV4E
	NPO	500	7.5	±0.25pF	2.59	712-1508-1-ND✻	30.80	182.00	525.00	712-1508-2-ND	2,000	504.00/M	501S42E7R5CV4E
	NPO	500	8.2	±0.25pF	2.59	712-1509-1-ND✻	30.80	182.00	525.00	712-1509-2-ND	2,000	504.00/M	501S42E8R2CV4E
	NPO	500	9.1	±0.25pF	2.59	712-1510-1-ND✻	30.80	182.00	525.00	712-1510-2-ND	2,000	504.00/M	501S42E9R1CV4E
	NPO	500	10	±5%	2.59	712-1511-1-ND✻	31.90	188.50	543.75	712-1511-2-ND	2,000	522.00/M	501S42E100JV4E
	NPO	500	12	±5%	2.59	712-1512-1-ND✻	31.90	188.50	543.75	712-1512-2-ND	2,000	522.00/M	501S42E120JV4E
	NPO	500	15	±5%	2.59	712-1513-1-ND✻	31.90	188.50	543.75	712-1513-2-ND	2,000	522.00/M	501S42E150JV4E
	NPO	500	18	±5%	2.59	712-1514-1-ND✻	31.90	188.50	543.75	712-1514-2-ND	2,000	522.00/M	501S42E180JV4E
	NPO	500	20	±5%	2.59	712-1515-1-ND✻	31.90	188.50	543.75	712-1515-2-ND	2,000	522.00/M	501S42E200JV4E
	NPO	500	27	±5%	2.59	712-1516-1-ND✻	37.40	221.00	637.50	712-1516-2-ND	2,000	612.00/M	501S42E270JV4E
	NPO	500	33	±5%	2.59	712-1517-1-ND✻	37.40	221.00	637.50	712-1517-2-ND	2,000	612.00/M	501S42E330JV4E
	NPO	500	47	±5%	2.59	712-1518-1-ND✻	37.40	221.00	637.50	712-1518-2-ND	2,000	612.00/M	501S42E470JV4E
	NPO	500	56	±5%	2.59	712-1519-1-ND✻	37.40	221.00	637.50	712-1519-2-ND	2,000	612.00/M	501S42E560JV4E
	NPO	500	68	±5%	2.59	712-1520-1-ND✻	37.40	221.00	637.50	712-1520-2-ND	2,000	612.00/M	501S42E680JV4E
	NPO	500	82	±5%	2.59	712-1521-1-ND✻	37.40	221.00	637.50	712-1521-2-ND	2,000	612.00/M	501S42E820JV4E
	NPO	500	100	±5%	2.59	712-1522-1-ND✻	31.90	188.50	543.75	712-1522-2-ND	2,000	522.00/M	501S42E101JV4E
	NPO	500	120	±5%	2.59	712-1523-1-ND✻	31.90	188.50	543.75	712-1523-2-ND	2,000	522.00/M	501S42E121JV4E
	NPO	500	150	±5%	2.59	712-1524-1-ND✻	47.30	279.50	806.25	712-1524-2-ND	2,000	774.00/M	501S42E151JV4E
	NPO	500	180	±5%	2.59	712-1525-1-ND✻	47.30	279.50	806.25	712-1525-2-ND	2,000	774.00/M	501S42E181JV4E
	NPO	200	220	±5%	2.59	712-1526-1-ND✻	47.30	279.50	806.25	712-1526-2-ND	2,000	774.00/M	201S42E221JV4E
	NPO	200	270	±5%	2.59	712-1527-1-ND✻	47.30	279.50	806.25	712-1527-2-ND	2,000	774.00/M	201S42E271JV4E
	NPO	200	390	±5%	2.59	712-1528-1-ND✻	47.30	279.50	806.25	712-1528-2-ND	2,000	774.00/M	201S42E391JV4E
	NPO	200	470	±5%	2.59	712-1529-1-ND✻	48.40	286.00	825.00	712-1529-2-ND	2,000	792.00/M	201S42E471JV4E
	NPO	100	560	±10%	2.59	712-1530-1-ND✻	55.00	325.00	937.50	712-1530-2-ND	2,000	900.00/M	101S42E561KV4E
	NPO	50	1,000	±10%	2.59	712-1531-1-ND✻	45.10	266.50	768.75	712-1531-2-ND	2,000	738.00/M	500S42E102KV4E

Designer Kits

▼	**712-1158-ND**	High-Q Capacitors 0402 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**
★	**712-1159-ND**	High-Q Capacitors 0603 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**
◊	**712-1370-ND**	High-Q Capacitors 0805 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**
∆	**712-1465-ND**	High-Q Capacitors 0201 S Series Designer Kits	**$60.00**
✻	**712-1532-ND**	High-Q Capacitors 1111 E Series Designer Kits, 10 pieces each of parts denoted (280 Total Pieces)	**$60.00**
§	**712-1400-ND**	WiMAX 0402 Series Designer Kit	**$60.00**
•	**712-1451-ND**	0603 Hi Frequency Inductor Designer Kit	**$60.00**
▲	**712-1452-ND**	0402 Hi Frequency Inductor Design Kit	**$60.00**
†	**712-1503-ND**	0201 Hi Frequency Inductor Designer Kit, 50 pieces each of parts denoted (1400 Total Pieces)	**$60.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Wireless Products

With the addition of the Aerocomm (Proprietary RF) and EZURiO (Bluetooth® and WLAN) products, Laird offers a wide variety of wireless systems solutions based on standard and proprietary solutions, either module or standalone format.

Proprietary RF Module

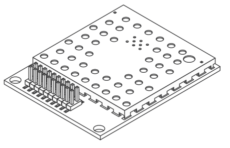

AC4490-200M

FlexRF® 2.4GHz Wireless Module *NEW!*

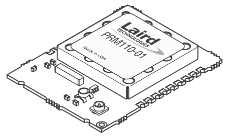

PRM110

802.11B/G WLAN Module

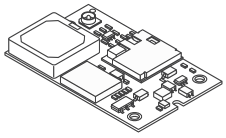

WISMC01BI

Long Range Bluetooth® Module *NEW!*

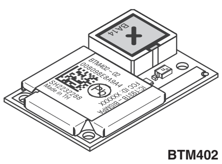

BTM402

Freq-uency	Power Output Max. (mW)	Antenna Type	Serial Baud Rate Max.(kbps)	Serial Interface	Standard/ Modulation	Digi-Key Part No.	Price Each 1	50	100	Laird Technologies Part No.
Proprietary RF Modules										
868	5	Connector, MMCX	115.2	3V or 5V TTL	FSK	AC4486-5M-ND◆‡	58.45	55.23	52.00	AC4486-5M
	5	Connector, MMCX	115.2	3V or 5V TTL	FSK	AC4486-5M-485-ND◆§	59.45	56.23	53.01	AC4486-5M-485
	5	Integral	115.2	3V or 5V TTL	FSK	AC4486-5A-ND◆‡	60.35	57.18	54.01	AC4486-5A
	5	Integral	115.2	3V or 5V TTL	FSK	AC4486-5A-485-ND◆§	61.35	58.18	55.01	AC4486-5A-485
	250	Connector, MMCX	57.6	3V TTL	FSK	AC4868-250M-ND◆‡	78.65	76.20	73.75	AC4868-250M
900	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-200M-ND‡	62.50	58.50	54.50	AC4490-200M
	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490LR-200M-ND†‡	68.50	64.00	59.51	AC4490LR-200M
	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-200M-485-ND§	63.50	59.50	55.51	AC4490-200M-485
	200	Integral	115.2	3V or 5V TTL	FHSS	AC4490-200A-ND‡	63.85	59.85	55.85	AC4490-200A
	1,000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-1000M-ND◆‡	77.50	73.01	68.51	AC4490-1000M
	1,000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490LR-1000M-ND◆†‡	84.50	79.51	74.50	AC4490LR-1000M
	1,000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-1000M-485-ND§	78.50	74.01	69.50	AC4490-1000M-485
	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790-200M-ND‡	62.50	58.50	54.50	AC4790-200M
	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790LR-200M-ND†‡	68.50	64.00	59.51	AC4790LR-200M
	200	Integral	115.2	3V or 5V TTL	FHSS	AC4790-200A-ND‡	63.85	59.85	55.85	AC4790-200A
	1,000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790-1000M-ND‡	77.50	73.01	68.51	AC4790-1000M
	1,000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790LR-1000M-ND†‡	84.50	79.51	74.50	AC4790LR-1000M
2400	200	Connector, MMCX	192	3V or 5V TTL	FHSS	LT4424-200-ND◆‡	91.00	88.50	86.00	AC4424-200
NEW! FlexRF® Modules — RoHS Compliant NEW!										
2400	125	u.FL Connector	500	3V TTL	FHSS	PRM110-ND‡	35.50	34.51	33.50	PRM110
	125	Integrated Chip	500	3V TTL	FHSS	PRM111-ND‡	35.50	34.51	33.50	PRM111
	50	u.FL Connector	500	3V TTL	FHSS	PRM112-ND‡	35.50	34.51	33.50	PRM112
	50	Integrated Chip	500	3V TTL	FHSS	PRM113-ND‡	35.50	34.51	33.50	PRM113
	125	u.FL Connector	500	3V TTL	FHSS	PRM120-ND‡	37.95	36.95	35.95	PRM120
	125	Integrated Chip	500	3V TTL	FHSS	PRM121-ND‡	37.95	36.95	35.95	PRM121
	50	u.FL Connector	500	3V TTL	FHSS	PRM122-ND‡	37.95	36.95	35.95	PRM122
	50	Integrated Chip	500	3V TTL	FHSS	PRM123-ND‡	37.95	36.95	35.95	PRM123
Stand-Alone Radio Modules										
900	200	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CL4490-200-05-ND	110.00	—	—	CL4490-200-05
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-232-ND	110.00	—	—	CL4490-1000-232
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-232-SP-ND	225.00	—	—	CL4490-1000-232-SP
	1,000	Dipole, RPSMA (female)	115.2	RS485, DB9 Male	FHSS	CL4490-1000-485-ND	110.00	—	—	CL4490-1000-485
	1,000	Dipole, RPSMA (female)	115.2	RS485, DB9 Male	FHSS	CL4490-1000-485-SP-ND	225.00	—	—	CL4490-1000-485-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-PRO-ND	149.00	—	—	CL4490-1000-PRO
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-PRO-SP-ND	300.00	—	—	CL4490-1000-PRO-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-UPR-SP-ND◆ ✔	300.00	—	—	CL4490-1000-UPR-SP
	200	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CL4790-200-05-ND	110.00	—	—	CL4790-200-05
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4790-1000-232-ND	110.00	—	—	CL4790-1000-232
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4790-1000-232-SP-ND	225.00	—	—	CL4790-1000-232-SP
	1,000	Dipole, RPSMA (female)	115.2	RS485, DB9 Male	FHSS	CL4790-1000-485-ND	110.00	—	—	CL4790-1000-485
	1,000	Dipole, RPSMA (female)	115.2	RS485, DB9 Male	FHSS	CL4790-1000-485-SP-ND	225.00	—	—	CL4790-1000-485-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4490-1000-232-SP-ND	382.00	—	—	CN4490-1000-232-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4490-1000-ND	249.00	—	—	CN4490-1000
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4490-1000-SP-ND	499.00	—	—	CN4490-1000-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4790-1000-232-SP-ND	382.00	—	—	CN4790-1000-232-SP
	1,000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4790-1000-ND	249.00	—	—	CN4790-1000
EZURiO Bluetooth® and WLAN Modules — RoHS Compliant										
2400	+15▲	Ceramic	921.6	UART	802.11B/G	WISMC01BI-ND	70.00	—	—	WISMC01BI
	+15▲	Ceramic	921.6	UART	802.11B/G	WISMC03BI-ND	110.10	—	—	WISMC03BI
	+15▲	Ceramic	921.6	UART	802.11B/G	WISMC04BI-ND	110.10	—	—	WISMC04BI
	+6	Ceramic Connector, u.FL	921.6	RS-232	Bluetooth 2.0	TRBLU23-00200-ND	42.31	—	—	TRBLU23-00200
	+6	Ceramic Connector, u.FL	921.6	RS-232	Bluetooth 2.0	TRBLU23-00300-ND	42.31	—	—	TRBLU23-00300
	+6	Ceramic	921.6	RS-232	Bluetooth 2.0	BISMS02BI-ND	32.86	—	—	BISMS02BI
	+6	—	921.6	RS-232	Bluetooth 2.0	BISMS02BI-NA-ND	32.86	—	—	BISMS02BI-NA
	+6	Integrated Ceramic	250	RS-232, DB9 Female	Bluetooth 1.1	BHCRS02BI-ND	143.23	—	—	BHCRS02BI
	+6	Integrated Ceramic	3,000	USB Dongle	Bluetooth 2.0	BRBLU03-010A0-ND	45.22	—	—	BRBLU03-010A0
	+16▲	Ceramic	921.6	RS-232	Bluetooth 2.0	BTM402-ND	45.92	—	—	BTM402
	2.5	Integrated Ceramic	921.6	RS-232	Bluetooth 2.0	BTM404-ND ✔	45.92	43.40	40.87	BTM404
	2.5	Integrated Ceramic	300+	UART	Bluetooth 2.1+EDR	BTM411-ND ✔	22.10	20.45	18.80	BTM411
	2.5	Integrated Ceramic	2100	USB	Bluetooth 2.1+EDR	BTM421-ND ✔	22.10	20.45	18.80	BTM421
	2.5	Integrated Ceramic	300+	UART	Bluetooth 2.1+EDR	BTM511-ND ✔	26.56	24.57	22.58	BTM511
	6.3	Integrated Ceramic	300+	UART	Bluetooth 2.1+EDR	BTM521-ND ✔	30.51	28.22	25.93	BTM521

Description	Digi-Key Part No.	Price Each	Laird Technologies Part No.
Proprietary RF Module Developer Kits			
AC4490-200M Developer's Kit	SDK-AC4490-200M-ND	199.00	SDK-AC4490-200M
AC4490LR-200M Developer's Kit	SDK-AC4490LR-200M-ND	225.00	SDK-AC4490LR-200M
AC4490-200A Developer's Kit	SDK-AC4490-200A-ND	199.00	SDK-AC4490-200A
AC4490-1000M Developer's Kit	SDK-AC4490-1000M-ND	199.00	SDK-AC4490-1000M
AC4490LR-1000M Developer's Kit	SDK-AC4490LR-1000M-ND	225.00	SDK-AC4490LR-1000M
AC4790-200M Developer's Kit	SDK-AC4790-200M-ND	199.00	SDK-AC4790-200M
AC4790LR-200M Developer's Kit	SDK-AC4790LR-200M-ND	225.00	SDK-AC4790LR-200M
AC4790-200A Developer's Kit	SDK-AC4790-200A-ND	199.00	SDK-AC4790-200A
AC4790-1000M Developer's Kit	SDK-AC4790-1000M-ND	199.00	SDK-AC4790-1000M
AC4790LR-1000M Developer's Kit	SDK-AC4790LR-1000M-ND	225.00	SDK-AC4790LR-1000M
AC4486-5M Developer's Kit	SDK-AC4486-5M-ND◆	199.00	SDK-AC4486-5M
AC4486-5A Developer's Kit	SDK-AC4486-5A-ND◆	199.00	SDK-AC4486-5A
AC4868-250M Developer's Kit	SDK-AC4868-250M-ND◆	199.00	SDK-AC4868-250M
PRM110 Developer's Kit	DVK-PRM110-ND◆ ✔	199.00	DVK-PRM110
PRM111 Developer's Kit	DVK-PRM111-ND◆ ✔	199.00	DVK-PRM111
PRM112 Developer's Kit	DVK-PRM112-ND◆ ✔	199.00	DVK-PRM112
PRM113 Developer's Kit	DVK-PRM113-ND◆ ✔	199.00	DVK-PRM113
PRM120 Developer's Kit	DVK-PRM120-ND◆ ✔	199.00	DVK-PRM120
PRM121 Developer's Kit	DVK-PRM121-ND◆ ✔	199.00	DVK-PRM121
PRM122 Developer's Kit	DVK-PRM122-ND◆ ✔	199.00	DVK-PRM122
PRM123 Developer's Kit	DVK-PRM123-ND◆ ✔	199.00	DVK-PRM123
NEW! Bluetooth and WLAN Module Evaluation Boards — RoHS Compliant NEW!			
Bluetooth Evaluation Board BTM411	DVK-BTM411-ND	165.00	DVK-BTM411
Bluetooth Evaluation Board BTM511	DVK-BTM511-ND	146.99	DVK-BTM511
Bluetooth and WLAN Module Development Kits — RoHS Compliant			
Development Kit for Bluetooth Module BISM II and USB II	BISDK02BI-02-ND	180.88	BISDK02BI-02
Development Kit for Bluetooth Module BISM II, WISM TCP/IP and USB II	BISDK02BI-03-ND	320.67	BISDK02BI-03
Development Kit for WLAN Module WISM TCP/IP	WISDK01BI-02-ND	296.00	WISDK01BI-02
Development Kit for BTM-521	DVK-BTM521-ND✔	210.00	DVK-BTM521
NEW! 802.15.4 Module Evaluation Boards — RoHS Compliant NEW!			
Zigbee Evaluation Board Coordinator - RS232	EVB-Z100S1AFC-2-ND	99.00	EVB-Z100S1AFC-2
Zigbee Evaluation Board Coordinator - RS232	EVB-Z100S1UFC-2-ND	99.00	EVB-Z100S1UFC-2

Description	Digi-Key Part No.	Price Each	Laird Technologies Part No.
Accessories			
Samtec 20-pin mating Connector for AC44xx	0700-00012-ND◆	4.00	0700-00012
Power Supply, 7.5VDC, 1.5A, Switching Regulator, 100 ~ 240VAC Input	0650-00005-ND◆	20.00	0650-00005
Antenna, 915MHz, Whip, 1/2 Wave, 7", 2dBi, Right Angle, MMCX Plug	0600-00019-ND◆	14.40	0600-00019
Antenna, 915MHz, Whip, 1/2 Wave, 7", 2dBi, Right Angle, RPSMA Plug	0600-00024-ND◆	14.00	0600-00024
Antenna, 915MHz, 1/2 Wave, 7", 2dBi, MMCX Plug	0600-00025-ND◆	14.00	0600-00025
Antenna, 915MHz, 1/2 Wave, 7", 2dBi, RPSMA	0600-00027-ND◆	14.00	0600-00027
Antenna, 915MHz, 1/2 Wave, 6", 2.5dBi, Right Angle, RPSMA	0600-00028-ND◆	14.00	0600-00028
Antenna, 915MHz, 1/2 Wave, 6", 2.5dBi, RPSMA	0600-00029-ND◆	14.00	0600-00029
Antenna, 915MHz, 1/4 Wave, 3.5", 1dBi, RPSMA	0600-00030-ND◆	14.00	0600-00030
Cable Coax 7", RG178 MMCX - RPSMA	1300-00023-ND◆	13.00	1300-00023
Cable Coax 5", RG178 U.FL - RPSMA	1300-00041-ND◆	16.25	1300-00041
Antenna, 868MHz, 1/2 Wave, 7", 2dBi, Right Angle, MMCX Plug	0600-00020-ND◆	16.00	0600-00020
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, MMCX Plug	0600-00002-ND◆	13.00	0600-00002
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, MMCX Plug	0600-00008-ND◆	13.00	0600-00008
Antenna, 2.45GHz, 5/8 Wave, 7", 5dBi, Right Angle, RPSMA	0600-00010-ND◆	14.00	0600-00010
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, MMCX Plug	0600-00011-ND◆	14.00	0600-00011
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, Right Angle, MMCX Plug	0600-00012-ND◆	14.00	0600-00012
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, RPSMA	0600-00014-ND◆	13.00	0600-00014
Antenna, 2.45GHz, Microstrip	2150-00006-ND◆	9.00	2150-00006
CL4424-100-232 Board Only, No Enclosure	2200-00076-ND◆	140.00	2200-00076
CL4490-100-232 Board Only, No Enclosure	2200-00122-ND	100.00	2200-00122
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, Right Angle, u.FL Plug	0600-00039-ND◆	10.65	0600-00039
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, u.FL Plug	0600-00040-ND◆	10.65	0600-00040
Surface Mount Adapter for Bluetooth BISM Modules	ACC-004L-ND◆	66.00	ACC-004
Audio Board with Winbond CODEC	ACC-005L-ND◆	204.57	ACC-005
White Nylon Fixing, 3.6mm (package of 1,000)	CWAA-00005-01-ND◆	170.77	CWAA-00005-01

✔ ***NEW!*** ◆ ***RoHS Compliant*** † Increased Sensitivity for Longer Range ‡ RS232 Serial Interface § RS485 Serial Interface ▲ At Antenna Connector

Laird TECHNOLOGIES

Innovative Technology
for a Connected World

NEW! Standard Precision Electronic Contacts

Laird Technologies standard precision electronic contacts ground, carry current and signals and interconnect boards and devices. A wide variety of plating options allow for the maximum electrical current carrying performance.

Dimensions in mm

Fig. 1

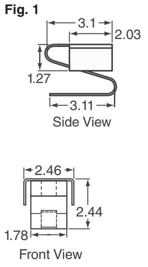

Fig. 2

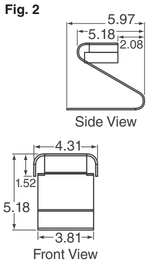

Fig. 3

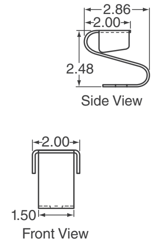

Fig. 4

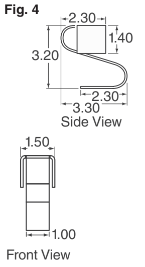

Fig.	Material	Plating	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	Laird Technologies Part No.
1	0.10mm BeCu	Gold	903-1001-1-ND	.77	.72	.67	3,000	419.90/M	BMI-C-001
2	0.10mm BeCu	Gold	903-1003-1-ND	1.19	1.11	1.02	1,400	646.00/M	BMI-C-004
3	0.10mm BeCu	Tin	903-1004-1-ND	.51	.48	.44	3,500	275.50/M	BMI-C-006
4	0.13mm BeCu	Tin	903-1005-1-ND	.34	.32	.30	2,300	183.93/M	BMI-C-007-01

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Fabric-Over-Foam Gaskets

Fabric-over-Foam EMI Gaskets offer high conductivity and shielding attenuation and are ideal for applications requiring low compression force. The Fabric-over-Foam profiles are available in a UL 94V0 flame retardant version and offer high abrasion and shear resistance. Typical Fabric-over-Foam EMI gasket applications include shielding or grounding of computer and telecommunications equipment seams and apertures. **Specifications:** • All parts are 18" in length • All parts have pressure sensitive adhesive for mounting.

Fig. 1

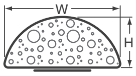

Fig. 2

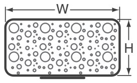

Fig. 3

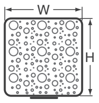

Fig. 4

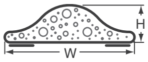

Fig. 5

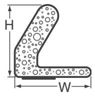

Fig.	Dimensions – mm H	W	Digi-Key Part No.	Price Each 1	10	50	Laird Technologies Part No.
1	2.3	2.3	903-1023-ND	2.53	2.35	2.17	4053PA51H01800
	3.0	9.1	903-1025-ND	4.02	3.73	3.45	4078PA51H01800
	9.5	12.7	903-1028-ND	6.10	5.67	5.23	4105PA51H01800
	1.5	3.8	903-1030-ND	2.53	2.35	2.17	4184PA51H01800
	3.0	6.4	903-1032-ND	3.12	2.91	2.68	4202PA51H01800
	2.5	7.6	903-1036-ND	3.42	3.18	2.94	4240PA51H01800
	1.5	6.4	903-1040-ND	2.98	2.77	2.55	4548PA51H01800
	4.6	10.2	903-1042-ND	4.31	4.01	3.70	4609PA51H01800
	3.6	6.4	903-1044-ND	3.42	3.18	2.94	4692PA51H01800
	3.0	3.8	903-1046-ND	2.83	2.63	2.43	4742PA51H01800
	6.4	9.5	903-1048-ND	4.46	4.15	3.83	4789PA51H01800
2	1.5	5.1	903-1024-ND	2.83	2.63	2.43	4056PA51H01800
	2.0	7.0	903-1027-ND	3.42	3.18	2.94	4096PA51H01800
	1.0	5.1	903-1035-ND	2.68	2.49	2.30	4220PA51H01800
	1.0	3.0	903-1037-ND	2.53	2.35	2.17	4245PA51H01800
	6.4	9.5	903-1045-ND	4.61	4.29	3.96	4701PA51H01800
	3.0	3.9	903-1033-ND	2.98	2.77	2.55	4209PA51H01800
	3.2	6.4	903-1047-ND	3.42	3.18	2.94	4788PA51H01800
3	3.0	3.0	903-1021-ND	2.83	2.63	2.43	4046PA51H01800
	6.4	6.4	903-1022-ND	3.87	3.60	3.32	4049PA51H01800
	12.7	12.7	903-1026-ND	8.03	7.46	6.89	4084PA51H01800
	5.0	5.0	903-1034-ND	3.42	3.18	2.94	4212PA51H01800
	2.0	2.0	903-1039-ND	3.72	3.46	3.19	4520PA51H01800
4	3.6	12.7	903-1029-ND	6.46	6.00	5.54	4131PA51H01800
	1.8	14.3	903-1038-ND	6.62	6.15	5.67	4379PA51H01800
	3.1	15.2	903-1049-ND	6.77	6.29	5.81	4882PA51H01800
	2.5	7.6	903-1043-ND	5.20	4.83	4.46	4633PA51H01800
5	9.8	10.7	903-1031-ND	10.55	9.80	9.05	4198PAH1K01800
	6.4	7.1	903-1041-ND	11.97	11.12	10.26	4593PAH101800

NEW! Retainer Contact for Board Shields

This retainer contact can be used for the one piece or frame-only two piece board shields. After the contact is soldered to the PCB, the board shield can slip between the contact points to retain the unit. This prevents soldering on the board shield itself.

Dimensions in mm

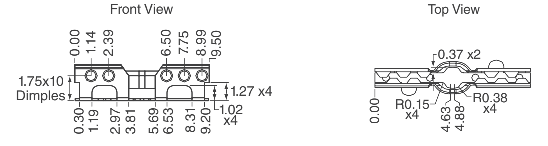

Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Pricing 3,500	Laird Technologies Part No.
903-1002-1-ND	1.40	1.30	1.20	760.00/M	BMI-C-002

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! SMT One-Piece Board Shields

One-piece standard surface mount shields offer six sides of protection, with the sixth being the board itself. One-piece designs offer economical shielding protection where access to covered components is not necessary.

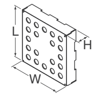

Dimensions – mm L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	Laird Technologies Part No.
13.66	12.10	2.54	903-1006-1-ND	1.01	.94	.87	1,000	549.10	BMI-S-101
16.50	16.50	3.60	903-1007-1-ND	1.58	1.47	1.36	700	757.68	BMI-S-102
26.21	26.21	5.08	903-1008-1-ND	1.88	1.75	1.61	300	418.08	BMI-S-103
32.00	32.00	6.00	903-1009-1-ND	2.20	2.05	1.89	225	410.42	BMI-S-104
38.10	25.40	6.00	903-1010-1-ND	2.77	2.58	2.38	250	514.15	BMI-S-105
36.83	33.68	5.08	903-1011-1-ND	3.15	2.93	2.71	300	702.78	BMI-S-106
44.37	44.37	9.75	903-1012-1-ND	3.72	3.46	3.19	120	369.92	BMI-S-107

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! SMT Two-Piece Board Shields

Two-piece standard surface mount shields offer users the flexibility to inspect or repair shielded components without risking board damage by removing the entire shield or incurring tooling costs. Covers snap on and off with ease which makes repair of the component under the shield quicker and easier and reduces board re-work.

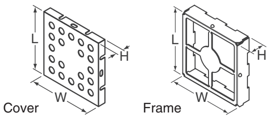

Desc.	Dimensions – mm L	W	H	Digi-Key Part No.	Price Each 1	10	50	Tape and Reel† Qty.	Pricing	Laird Technologies Part No.
Cover	13.66	12.10	2.54	903-1013-ND	.45	.42	.39	—	—	BMI-S-201-C
Frame	13.66	12.10	2.54	903-1050-1-ND‡	.95	.89	.82	1,000	516.80	BMI-S-201-F
Cover	16.50	16.50	3.60	903-1014-ND	1.07	1.00	.92	—	—	BMI-S-202-C
Frame	16.50	16.50	3.60	903-1051-1-ND‡	1.34	1.25	1.15	700	643.44	BMI-S-202-F
Cover	26.21	26.21	5.08	903-1015-ND	1.40	1.30	1.20	—	—	BMI-S-203-C
Frame	26.21	26.21	5.08	903-1052-1-ND‡	1.88	1.75	1.61	300	418.08	BMI-S-203-F
Cover	32.00	32.00	6.00	903-1016-ND	2.00	1.86	1.71	—	—	BMI-S-204-C
Frame	32.00	32.00	6.00	903-1053-1-ND‡	2.02	1.88	1.74	225	377.15	BMI-S-204-F
Cover	38.10	25.40	6.00	903-1017-ND	1.49	1.39	1.28	—	—	BMI-S-205-C
Frame	38.10	25.40	6.00	903-1054-1-ND‡	2.23	2.08	1.92	250	414.70	BMI-S-205-F
Cover	36.83	33.68	5.08	903-1018-ND	2.11	1.97	1.82	—	—	BMI-S-206-C
Frame	36.83	33.68	5.08	903-1055-1-ND‡	2.47	2.30	2.12	300	550.68	BMI-S-206-F
Cover	44.37	44.37	9.75	903-1019-ND	3.75	3.49	3.22	—	—	BMI-S-207-C
Frame	44.37	44.37	9.75	903-1056-1-ND‡	3.75	3.49	3.22	120	372.71	BMI-S-207-F
Cover	44.02	30.50	3.00	903-1020-ND	1.52	1.42	1.31	—	—	BMI-S-210-C
Frame	44.02	30.50	3.00	903-1057-1-ND‡	1.58	1.47	1.36	450	527.67	BMI-S-210-F

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

AVX KYOCERA

NEW! Board Shield Lock

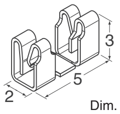

Dim. in mm

Series 8069 "shield lock" is a small terminal developed for the fixation of the shield case used inside of digital-media product equipment. The use of "shield lock" simplifies the operation for the shield case attachment by the current manual soldering into one-touch operation.

Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Pricing 3,000	AVX Part No.
478-6021-1-ND	.52	.45	.37	135.00/M	048069000000800+

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Downconverting Mixers

Frequency (MHz)		Noise Frequency (dB)	Conversion Gain (dB)	Package	Digi-Key Part No.	Price Each		
Min.	Max.					1	25	100
0.1	3,000	14	1	16-QFN	LT5512EUF#PBF-ND◆	7.38	5.27	4.34
10	3,000	12.5	-0.5	16-QFN	LT5521EUF#PBF-ND◆	9.90	7.07	5.82
400	2,700	13.9	-0.1	16-QFN	LT5522EUF#PBF-ND◆	10.40	7.43	6.12
800	2,500	15	-1.7	16-QFN	LT5525EUF-ND	7.60	5.43	4.47
800	2,500	15.1	-1.9	16-QFN	LT5525EUF#PBF-ND◆	7.60	5.43	4.47
0.1	2,000	11	0.6	16-QFN	LT5526EUF#PBF-ND◆	6.80	4.86	4.00
400	3,700	12.5	2.3	16-QFN	LT5527EUF#PBF-ND◆	11.60	8.27	6.81
400	3,800	10.6	3.3	16-QFN	LT5557EUF#PBF-ND◆	11.90	8.48	7.02
1,600	2,700	9.9	8	20-QFN	LTC5542IUH#PBF-ND◆ ***NEW!***	15.95	10.68	9.00

◆ ***RoHS Compliant***

Upconverting Mixers

Frequency (MHz)		LO Drive (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each		
Min.	Max.					1	25	100
10	3,000	-10	36	16-TSSOP	LT5511EFE#PBF-ND	7.38	5.27	4.34
1,500	3,800	-1	39	24-QFN	LT5579IUH#PBF-ND	11.70	9.24	7.86
400	2,700	-1	-43	24-QFN	LT5578IUH#PBF-ND ***NEW!***	11.15	8.82	7.50

Up/Down Converting Mixer

Frequency (MHz)		Noise Frequency (dB)	Conversion Gain (dB)	Package	Digi-Key Part No.	Price Each		
Min.	Max.					1	25	100
0.01	4,000	9.3 / 10.1	2.4/2.6	8-DFN	LT5560EDD#PBF-ND	3.13	2.22	1.87

IQ Demodulators

Frequency (MHz)		IIP3 (dB)	Noise Figure (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each		
Min.	Max.						1	25	100
1,500	2,500	20	16.8	-41	16-QFN	LT5515EUF#PBF-ND	13.50	9.64	7.94
800	1,500	21.5	12.8	-55	16-QFN	LT5516EUF#PBF-ND	14.75	10.54	8.68
40	900	21	12.4	-59	16-QFN	LT5517EUF#PBF-ND	14.75	10.54	8.68
40	500	-1	7.8	—	16-QFN	LT5546EUF#PBF-ND	6.63	4.73	3.90
800	2,700	28	12.8	-60.8	16-QFN	LT5575EUF#PBF-ND	15.50	11.04	9.15

IQ Modulator

Frequency (MHz)		OIP3 (dB)	Noise Figure (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each		
Min.	Max.						1	25	100
600	1,100	22.9	-159.4	-43	16-QFN	LT5568EUF#PBF-ND	10.70	7.60	6.31
600	1,100	22.9	-159.4	-43	16-QFN	LT5568-2EUF#PBF-ND	10.70	7.60	6.31
1,500	2,500	21.6	-158.6	-39.4	16-QFN	LT5572EUF#PBF-ND	9.90	7.05	5.84
620	1,100	21.7	-159	-42	16-QFN	LT5571EUF#PBF-ND	9.90	7.05	5.84
5	1,600	27.7	-161.2	-55	24-QFN	LTC5598IUF#PBF-ND ***NEW!***	11.03	7.39	6.23

Amplifier/ADC Driver

Bandwidth (MHz)	OIP3 (dB)	Noise Figure (dB)	Package	Digi-Key Part No.	Price Each		
					1	25	100
10 ~ 850	47	7.3	20-TSSOP	LT5514EFE#PBF-ND	10.38	7.41	6.10

NEW! RF RMS Detectors

Frequency (MHz)		Detect (dB)		Dynamic Range (dB)	Supply (mA)	Package	Digi-Key Part No.	Price Each		
Min.	Max.	Min.	Max.					1	25	100
40	10,000	-60	2	57	41.6	10-DFN	LTC5582IDD#PBF-ND	13.15	8.96	7.56

RF Log Detectors

Frequency (MHz)		Detect (dB)		Dynamic Range (dB)	Supply (mA)	Package	Digi-Key Part No.	Price Each		
Min.	Max.	Min.	Max.					1	25	100
10	1,000	-76	14	83	13.5	8-DFN	LT5537EDDB#TRMPBFCT-ND†	6.94	6.20	5.58
10	1,000	-76	14	83	13.5	8-DFN	LT5537EDDB#TRMPBFTR-NDΔ	1785.00/500		
50	3,000	-63	2	60	7	SC70-6	LT5534ESC6#TRMPBFCT-ND†	10.30	9.20	8.28
50	3,000	-63	2	60	7	SC70-6	LT5534ESC6#TRMPBFTR-NDΔ	2674.99/500		
40	3,800	-75	10	76	29	8-DFN	LT5538IDD#PBF-ND	9.55	6.40	5.31
40	2,700	-52	13	60	26.5	10-DFN	LT5570IDD#PBF-ND	11.50	8.17	6.79
10	6,000	-34	6	40	1.4	8-DFN	LT5581IDDB#TRMPBFCT-ND†	5.60	5.00	4.50
10	6,000	-34	6	40	1.4	8-DFN	LT5581IDDB#TRMPBFTR-NDΔ	1430.00/500		

◆ ***RoHS Compliant*** † Cut Tape Δ Tape and Reel

RF Schottky Peak Detectors

Frequency (MHz)		Detect (dB)		Dynamic Range (dB)	I Supply (mA)	Package	Digi-Key Part No.	Cut Tape Price Each		
Min.	Max.	Min.	Max.					1	25	100
300	3,000	-28	18	46	0.5	TSOT-23-5	LTC5505-1ES5#TRMPBFCT-ND	2.88	2.58	2.32
300	3,000	-28	18	46	0.5	TSOT-23-5	LTC5505-1ES5#TRMPBFTR-NDΔ	643.75/500		
300	3,500	-32	12	44	0.5	TSOT-23-5	LTC5505-2ES5#TRMPBFCT-ND	2.88	2.58	2.32
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5#TRMPBFTR-NDΔ	643.75/500		
0.1	1,000	-32	14	46	0.55	TSOT-23-6	LTC5507ES6#TRMPBFCT-ND	3.58	3.20	2.88
0.1	1,000	-32	14	46	0.55	TSOT-23-6	LTC5507ES6#TRMPBFTR-NDΔ	910.00/500		
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6#TRMPBFCT-ND	3.44	3.08	2.77
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6#TRMPBFTR-NDΔ	875.00/500		
300	12,000	-32	10	42	0.5	TSOT-23-6	LTC5532ES6#TRMPBFCT-ND	3.61	3.23	2.91
300	12,000	-32	10	42	0.5	TSOT-23-6	LTC5532ES6#TRMPBFTR-NDΔ	920.00/500		
300	11,000	-32	12	44	0.45	12-DFN	LTC5533EDE#PBF-ND	6.40	4.55	3.75

Δ Tape and Reel

Low Power Transceivers

Frequency (MHz)		I Supply (mA)	Supply Voltage	Package	Digi-Key Part No.	Price Each		
Min.	Max.					1	25	100
1,800	2,700	23	1.8 ~ 5.25	24-SSOP	LT5500EGN-ND	6.38	4.55	3.75
70	400	25	1.8 ~ 5.25	24-SSOP	LT5502EGN#PBF-ND◆	10.25	6.81	5.36
40	500	26.5	1.8 ~ 5.25	16-QFN	LT5506EUF-ND	6.63	4.73	3.90
40	500	26.5	1.8 ~ 5.25	16-QFN	LT5506EUF#PBF-ND◆	6.63	4.73	3.90

◆ ***RoHS Compliant***

Power Amplifier Controllers

Frequency (MHz)		Control Loop Dynamic (kHz)	Supply Range (dB)	Voltage	Package	Digi-Key Part No.	Price Each		
Min.	Max.						1	25	100
850	2,000	250	40	2.7 ~ 6	8-MSOP	LTC1758-1EMS8-ND	3.38	2.25	1.70
850	2,000	250	40	2.7 ~ 6	10-MSOP	LTC1758-2EMS-ND	3.50	2.33	1.75
850	2,000	370	40	2.7 ~ 6	8-MSOP	LTC1957-1EMS8-ND	3.38	2.25	1.70
850	2,000	370	40	2.7 ~ 6	10-MSOP	LTC1957-2EMS-ND	3.50	2.33	1.75
300	2,000	450	45	2.7 ~ 6	8-MSOP	LTC4400-2EMS8-ND	3.25	2.32	1.91

GPS Antennas

Dimensions in mm

SH Series:
The SH Series antennas combine superior performance, advanced operational and protection features and low power consumption. This makes them ideal for telematics, fleet management, navigation, tracking and other applications that require a compact, high performance GPS antenna.

UC Series:
The UC Series offers outstanding value in a compact form factor. A wide operating voltage, temperature range and compact housing with dual mounting options suit the UC to a wide variety of cost-sensitive applications.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Compact GPS Antenna with SMA	1575.42	ANT-GPS-SH-SMA-ND	23.76	21.78	19.80	ANT-GPS-SH-SMA
	Compact GPS Antenna with MCX	1575.42	ANT-GPS-SH-MCX-ND	23.76	21.78	19.80	ANT-GPS-SH-MCX
	Compact GPS Antenna with MMX	1575.42	ANT-GPS-SH-MMX-ND	23.76	21.78	19.80	ANT-GPS-SH-MMX
2	High Performance GPS with SMA	1575.42	ANT-GPS-UC-SMA-ND	25.80	23.65	21.57	ANT-GPS-UC-SMA
3	High Performance GPS with MCX	1575.42	ANT-GPS-UC-MCX-ND	25.80	23.65	21.57	ANT-GPS-UC-MCX
	High Performance GPS with RP-SMA	1575.42	ANT-GPS-UC-RPS-ND	25.80	23.65	21.57	ANT-GPS-UC-RPS

Fig. 1

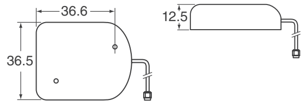

Fig. 2

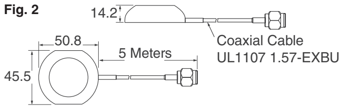

Fig. 3

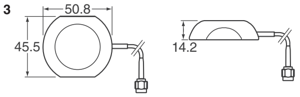

Magnetic Mount Antennas

Dimensions in mm

Mag-1 Magnetic Bases:
Available in three base diameters, each MAG-1 Series base features a powerful magnet for reliable mounting on metal surfaces. They also feature a soft, rubber protective cover to help protect painted surfaces, such as those on automobiles. The base accepts a diverse range of antenna element styles and frequencies.

Mag-1 Antenna Elements:
These cosmetically attractive elements are designed to fit MAG-1 Series bases. Ideal for mobile and cellular systems, they are available in a range of styles and center frequencies and are intended to offer outstanding performance and durability even in harsh environments.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	50mm MAG-1 Magnetic Base	—	ANT-MAG-B50-RPS-ND	5.28	4.84	4.40	ANT-MAG-B50-RPS
	66mm MAG-1 Magnetic Base	—	ANT-MAG-B66-RPS-ND	5.94	5.45	4.95	ANT-MAG-B66-RPS
	85mm MAG-1 Magnetic Base	—	ANT-MAG-B85-RPS-ND	6.60	6.05	5.50	ANT-MAG-B85-RPS
2	Dual-Band Whip-Element	916, 1.7 ~ 1.8GHz	ANT-ELE-S01-008-ND	3.48	3.19	2.90	ANT-ELE-S01-008
3	Whip-Element	916	ANT-ELE-S01-005-ND	2.70	2.48	2.25	ANT-ELE-S01-005
4	High Gain Whip-Element	916	ANT-ELE-S01-006-ND	3.24	2.97	2.70	ANT-ELE-S01-006
5	Short Whip-Element	916	ANT-ELE-S01-010-ND	2.66	2.45	2.22	ANT-ELE-S01-010
6	Stub Element	2.4GHz	ANT-ELE-S01-011-ND	2.64	2.42	2.20	ANT-ELE-S01-011

Fig. 1

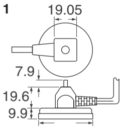

B50 = 50mm
B66 = 66mm
B85 = 85mm

Cable: 13.1 ft.
(RG-174/RP-SMA)

Fig. 2

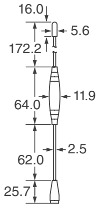

Fig. 3

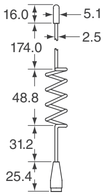

Fig. 4

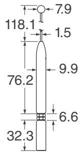

Fig. 5

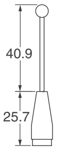

Fig. 6

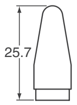

High Gain Antennas

Dimensions in mm

Fig. 1

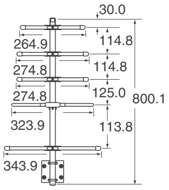

Fig. 2

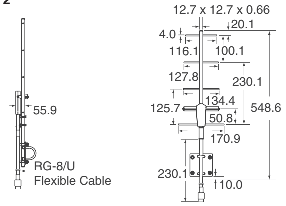

Fig. 3

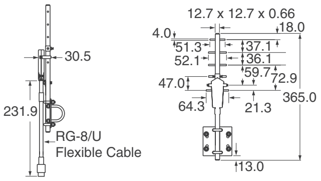

Fig. 4 ***NEW!***

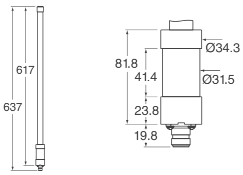

Antenna Factor offers Yagi antennas in models covering frequencies from 400 to 2.4GHz. The antennas are designed for long-distance directional communication and can greatly enhance the performance of RF links, such as WLAN and WIFI.

Made of stainless steel and featuring sturdy mast mounts, these rugged antennas are constructed to withstand the stress of long-term use. All antennas are designed for 50Ω system matches with maximum inputs of 100W.

The OM series of antennas are designed to increase the range and reliability of wireless links while maintaining an omni-directional radiation pattern.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	418MHz 5-Element Yagi	418	ANT-418-YG5-N-ND	83.94	76.95	69.95	ANT-418-YG5-N
2	916MHz 5-Element Yagi	916	ANT-916-YG5-N-ND	83.94	76.95	69.95	ANT-916-YG5-N
3	2.4GHz 6-Element Yagi	2442	ANT-2.4-YG6-N-ND	83.94	76.95	69.95	ANT-2.4-YG6-N
4	2.4GHz Omni-directional	2450	ANT-2.4-OM-CM-01-N-ND ***NEW!***	53.94	49.45	44.95	ANT-2.4-OM-CM-01-N

Surface Mount Antennas

Dimensions in mm

MHW Series:
This antenna style provides a clever solution to the unique needs of difficult environments such as a vehicle. Designed to mount directly onto nonconductive interior surfaces such as wallboard, windows or a rear view mirror, these compact antennas are easily concealed, minimizing potential theft.

HDP Series:
A compact, center-fed antenna that achieves efficient operation at either or both of two frequency bands. Its durable, unobtrusive housing attaches permanently with integral adhesive to flat, nonconductive surfaces.

VDP Series:
Similar to the HDP Series but the cable enters from the bottom to facilitate vertical orientation. Also, this compact, center-fed antenna achieves efficient operation at any or all of three frequency bands. Attaches permanently with integral adhesive to flat nonconductive surfaces.

Fig. 1

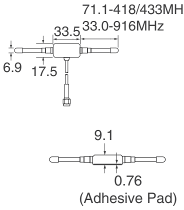

Fig. 2

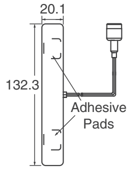

Fig. 3

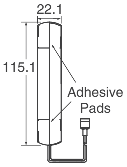

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Compact Center-Fed Dipole	418	ANT-418-MHW-RPS-S-ND	9.53	8.74	7.95	ANT-418-MHW-RPS-S
	Compact Center-Fed Dipole	433	ANT-433-MHW-RPS-S-ND	9.53	8.74	7.95	ANT-433-MHW-RPS-S
	Compact Center-Fed Dipole	916	ANT-916-MHW-RPS-S-ND	9.53	8.74	7.95	ANT-916-MHW-RPS-S
2	Dual-Band Surface Mount	860 ~ 960, 1770 ~ 1880	ANT-DB1-HDP-RPS-ND	8.10	7.43	6.75	ANT-DB1-HDP-RPS
3	Tri-Band Surface Mount	860 ~ 960, 1770 ~ 1880, 2400	ANT-DB1-VDP-RPS-ND	8.93	8.19	7.44	ANT-DB1-VDP-RPS

Antennas

Dimensions in mm

Fig. 1

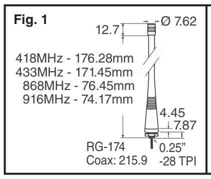

Fig. 2

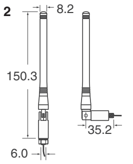

Fig. 3

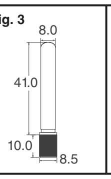

Fig. 4

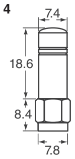

Fig. 5

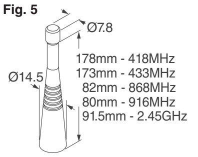

Fig. 6

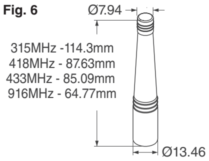

Fig. 7

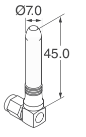

Fig. 8

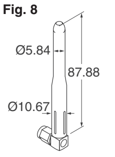

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Permanent Mount 1/4 Wave Whip	418	ANT-418-PW-QW-ND◆	6.08	5.58	5.07	ANT-418-PW-QW
	Permanent Mount 1/4 Wave Whip	433	ANT-433-PW-QW-ND◆	5.97	5.47	4.98	ANT-433-PW-QW
	Permanent Mount 1/4 Wave Whip	868	ANT-868-PW-QW-ND◆	5.85	5.37	4.88	ANT-868-PW-QW
	Permanent Mount 1/4 Wave Whip	916	ANT-916-PW-QW-ND◆	5.73	5.26	4.78	ANT-916-PW-QW
2	1/2 Wave Whip with RG-178 Cable	868	ANT-868-PML-ND◆	6.79	6.23	5.66	ANT-868-PML
	1/2 Wave Whip with RG-178 Cable	916	ANT-916-PML-ND◆	6.79	6.23	5.66	ANT-916-PML
3	Reduced Height 1/4 Wave Whip	315	ANT-315-CW-RH-ND◆	5.67	5.20	4.73	ANT-315-CW-RH
	Reduced Height 1/4 Wave Whip	418	ANT-418-CW-RH-ND◆	5.67	5.20	4.73	ANT-418-CW-RH
	Reduced Height 1/4 Wave Whip	433	ANT-433-CW-RH-ND◆	5.67	5.20	4.73	ANT-433-CW-RH
	Reduced Height 1/4 Wave Whip	916	ANT-916-CW-RH-ND◆	5.67	5.20	4.73	ANT-916-CW-RH
4	Reduced Height 1/4 Wave Whip	2.45GHz	ANT-2.4-CW-RH-ND◆	4.74	4.34	3.64	ANT-2.4-CW-RH
	Reduced Height 1/4 Wave Whip	2.45GHz	ANT-2.4-CW-RH-SMA-ND◆	4.16	3.82	3.47	ANT-2.4-CW-RH-SMA
5	RP-SMA 1/4 Wave Whip	418	ANT-418-CW-QW-ND◆	6.89	6.32	5.74	ANT-418-CW-QW
	RP-SMA 1/4 Wave Whip	433	ANT-433-CW-QW-ND◆	6.73	6.18	5.61	ANT-433-CW-QW
	RP-SMA 1/4 Wave Whip	868	ANT-868-CW-QW-ND◆	6.58	6.04	5.49	ANT-868-CW-QW
	RP-SMA 1/4 Wave Whip	916	ANT-916-CW-QW-ND◆	6.43	5.90	5.36	ANT-916-CW-QW
	1/2 Wave Whip RP-SMA	2.45GHz	ANT-2.4-CW-QW-RPS-ND◆	6.90	6.33	5.75	ANT-2.4-CW-QW-RPS
	1/2 Wave Whip SMA	2.45GHz	ANT-2.4-CW-QW-SMA-ND◆	6.90	6.33	5.75	ANT-2.4-CW-QW-SMA
	1/2 Wave Whip	2.45GHz	ANT-2.4-PW-QW-ND◆	5.94	5.45	4.95	ANT-2.4-PW-QW
6	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-HD-ND◆	6.60	6.05	5.50	ANT-315-CW-HD
	RP-SMA Reduced Height 1/4 Wave Whip	418	ANT-418-CW-HD-ND◆	6.60	6.05	5.50	ANT-418-CW-HD
	RP-SMA Reduced Height 1/4 Wave Whip	433	ANT-433-CW-HD-ND◆	6.60	6.05	5.50	ANT-433-CW-HD
	RP-SMA Reduced Height 1/4 Wave Whip	916	ANT-916-CW-HD-ND◆	6.60	6.05	5.50	ANT-916-CW-HD
7	1/4 Wave Whip Right Angle	315	ANT-315-CW-RCS-ND◆	6.30	5.78	5.25	ANT-315-CW-RCS
	1/4 Wave Whip RP-SMA Right Angle	418	ANT-418-CW-RCS-ND◆	6.30	5.78	5.25	ANT-418-CW-RCS
	1/4 Wave Whip RP-SMA Right Angle	433	ANT-433-CW-RCS-ND◆	6.30	5.78	5.25	ANT-433-CW-RCS
	1/4 Wave Whip RP-SMA Right Angle	868	ANT-868-CW-RCS-ND◆	6.30	5.78	5.25	ANT-868-CW-RCS
	RP-SMA Right Angle	916	ANT-916-CW-RCS-ND◆	6.30	5.78	5.25	ANT-916-CW-RCS
	RP-SMA Right Angle	2.45GHz	ANT-2.4-CW-RCS-ND◆	6.30	5.78	5.25	ANT-2.4-CW-RCS
	1/4 Wave Whip SMA Right Angle	2.45GHz	ANT-2.4-CW-RCS-SMA_-ND◆	6.46	5.91	5.27	ANT-2.4-CW-RCS-SMA_
8	1/4 Wave Whip	916	ANT-916-CW-RCL-ND◆	6.60	6.05	5.50	ANT-916-CW-RCL
	1/2 Wave Whip RP-SMA	2.45GHz	ANT-2.4-CW-RCL-ND◆	6.60	6.05	5.50	ANT-2.4-CW-RCL
9	1/2 Wave Whip RP-SMA	2.45GHz	ANT-2.4-CW-RCT-RP-ND◆	7.80	7.15	6.50	ANT-2.4-CW-RCT-RP
10	Permanent Mount Reduced Height 1/4 Wave Whip	315	ANT-315-PW-LP-ND◆	2.14	1.97	1.79	ANT-315-PW-LP
	Permanent Mount Reduced Height 1/4 Wave Whip	418	ANT-418-PW-LP-ND◆	2.14	1.97	1.79	ANT-418-PW-LP
	Permanent Mount Reduced Height 1/4 Wave Whip	433	ANT-433-PW-LP-ND◆	2.14	1.97	1.79	ANT-433-PW-LP
	Permanent Mount Reduced Height 1/4 Wave Whip	868	ANT-868-PW-LP-ND◆	2.14	1.97	1.79	ANT-868-PW-LP
	Permanent Mount Reduced Height 1/4 Wave Whip	916	ANT-916-PW-LP-ND◆	2.14	1.97	1.79	ANT-916-PW-LP
11	Permanent Mount Swivel Angle 1/4 Wave Whip	315	ANT-315-PW-RA-ND◆	3.47	3.18	2.89	ANT-315-PW-RA
	Permanent Mount Swivel Angle 1/4 Wave Whip	418	ANT-418-PW-RA-ND◆	3.47	3.18	2.89	ANT-418-PW-RA
	Permanent Mount Swivel Angle 1/4 Wave Whip	433	ANT-433-PW-RA-ND◆	3.47	3.18	2.89	ANT-433-PW-RA
	Permanent Mount Swivel Angle 1/4 Wave Whip	868	ANT-868-PW-RA-ND◆	3.47	3.18	2.89	ANT-868-PW-RA
	Permanent Mount Swivel Angle 1/4 Wave Whip	916	ANT-916-PW-RA-ND◆	3.47	3.18	2.89	ANT-916-PW-RA
12	1/2 Wave Whip Swivel RP-SMA	2.45/5.8GHz	ANT-DB1-RAF-RPS-ND◆	10.28	9.00	7.87	ANT-DB1-RAF-RPS
13	Planar Antenna (SMT)	315	ANT-315-SP_-ND◆	2.08	1.82	1.75	ANT-315-SP_
	Planar Antenna (SMT)	418	ANT-418-SP-ND	2.08	1.82	1.75	ANT-418-SP_
	Planar Antenna (SMT)	433	ANT-433-SP_-ND◆	2.08	1.82	1.75	ANT-433-SP_
	Planar Antenna (SMT)	458	ANT-458-SP-ND◆	2.10	1.93	1.75	ANT-458-SP
	Planar Antenna (SMT)	868	ANT-868-SP_-ND◆	2.08	1.82	1.75	ANT-868-SP_
	Planar Antenna (SMT)	916	ANT-916-SP_-ND◆	2.08	1.82	1.75	ANT-916-SP_
14	1/4 Wave, JJB Permanent Ultra-Miniature, Straight	868	ANT-868-JJB-ST-ND	1.92	1.76	1.60	ANT-868-JJB-ST
15	JJB Permanent Ultra-Miniature, Straight	916	ANT-916-JJB-ST-ND◆	1.92	1.76	1.60	ANT-916-JJB-ST
	JJB Permanent Ultra-Miniature, Straight	2.45GHz	ANT-2.4-JJB-ST-ND◆	1.92	1.76	1.60	ANT-2.4-JJB-ST
16	JJB Permanent Ultra-Miniature, Right Angle	868	ANT-868-JJB-RA-ND◆	1.92	1.76	1.60	ANT-868-JJB-RA
	JJB Permanent Ultra-Miniature, Right Angle	916	ANT-916-JJB-RA-ND◆	1.92	1.76	1.60	ANT-916-JJB-RA
	JJB Permanent Ultra-Miniature, Right Angle	2.45GHz	ANT-2.4-JJB-RA-ND◆	1.92	1.76	1.60	ANT-2.4-JJB-RA
—	Ultra-Compact Chip Antenna	868	ANT-868-CHP-TCT-ND*◆	2.78	2.55	2.18	ANT-868-CHP-T
	Ultra-Compact Chip Antenna	868	ANT-868-CHP-TTR-ND†◆		6345.00/3,000		ANT-868-CHP-T
	Ultra-Compact Chip Antenna	916	ANT-916-CHP-TCT-ND*◆	2.78	2.55	2.18	ANT-916-CHP-T
	Ultra-Compact Chip Antenna	916	ANT-916-CHP-TTR-ND†◆		6345.00/3,000		ANT-916-CHP-T
17	Ultra-Compact Chip Antenna	2.45GHz	ANT-2.45-CHPCT-ND*◆	1.42	1.30	1.26	ANT-2.45-CHP
	Ultra-Compact Chip Antenna	2.45GHz	ANT-2.45-CHPTR-ND†◆		1610.58/1,500		ANT-2.45-CHP
18	Helical Through-Hole Antenna	315	ANT-315-HETH-ND◆	.80	.74	.67	ANT-315-HETH
	Helical Through-Hole Antenna	418	ANT-418-HETH-ND◆	.80	.74	.67	ANT-418-HETH
	Helical Through-Hole Antenna	433	ANT-433-HETH-ND◆	.80	.74	.67	ANT-433-HETH
	Helical Through-Hole Antenna	916	ANT-916-HETH-ND◆	.80	.74	.67	ANT-916-HETH
19	Helical SMA Antenna	315	ANT-315-HESM-ND◆	.80	.74	.67	ANT-315-HESM
	Helical SMA Antenna	418	ANT-418-HESM-ND◆	.80	.74	.67	ANT-418-HESM
20	1/4 Wave Whip Right Angle RP-SMA	315	ANT-315-CW-RAH-ND◆	7.44	6.82	6.20	ANT-315-CW-RAH
	1/4 Wave Whip Right Angle RP-SMA	418	ANT-418-CW-RAH-ND◆	7.44	6.82	6.20	ANT-418-CW-RAH
	1/4 Wave Whip Right Angle RP-SMA	433	ANT-433-CW-RAH-ND◆	7.44	6.82	6.20	ANT-433-CW-RAH
	1/4 Wave Whip Right Angle RP-SMA	868	ANT-868-CW-RAH-ND◆	7.44	6.82	6.20	ANT-868-CW-RAH
	1/4 Wave Whip Right Angle RP-SMA	916	ANT-916-CW-RAH-ND◆	7.44	6.82	6.20	ANT-916-CW-RAH
	1/4 Wave Whip Right Angle RP-SMA	2.45GHz	ANT-2.4-CW-RAH-RPS-ND◆	4.88	4.47	3.74	ANT-2.4-CW-RAH-RPS
21	1/4 Wave Whip Right Angle with SMA	2.45GHz	ANT-2.4-CW-RAH-SMA-ND	4.28	3.93	3.57	ANT-2.4-CW-RAH-SMA
22	1/4 Wave Whip RP-SMA	315	ANT-315-CW-HW-ND◆	7.50	6.88	6.25	ANT-315-CW-HW
	1/4 Wave Whip RP-SMA	418	ANT-418-CW-HW-ND◆	7.50	6.88	6.25	ANT-418-CW-HW
	1/4 Wave Whip RP-SMA	433	ANT-433-CW-HW-ND◆	7.50	6.88	6.25	ANT-433-CW-HW
	1/2 Wave Whip RP-SMA	868	ANT-868-CW-HW_-ND◆	8.49	7.76	6.25	ANT-868-CW-HW_
	1/2 Wave Whip RP-SMA	916	ANT-916-CW-HW-ND◆	7.50	6.88	6.25	ANT-916-CW-HW
23	1/4 Wave Whip RP-SMA	315	ANT-315-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-315-CW-HWR-RPS
	1/4 Wave Whip RP-SMA	418	ANT-418-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-418-CW-HWR-RPS
	1/4 Wave Whip RP-SMA	433	ANT-433-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-433-CW-HWR-RPS
	1/2 Wave Whip RP-SMA	868	ANT-868-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-868-CW-HWR-RPS
	1/2 Wave Whip RP-SMA	916	ANT-916-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-916-CW-HWR-RPS
	1/2 Wave Whip RP-SMA	1.4GHz	ANT-1.4-CW-HWR-RPS-ND◆	8.82	8.09	7.35	ANT-1.4-CW-HWR-RPS
	1/4 Wave Whip SMA	315	ANT-315-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-315-CW-HWR-SMA
	1/4 Wave Whip SMA	418	ANT-418-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-418-CW-HWR-SMA
	1/4 Wave Whip SMA	433	ANT-433-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-433-CW-HWR-SMA

◆ ***RoHS Compliant*** * Cut Tape † Tape and Reel

Fig. 9

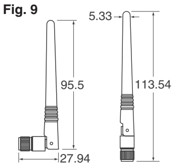

Fig. 10

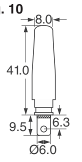

Fig. 11

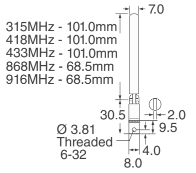

Fig. 12

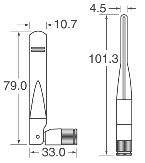

Fig. 13

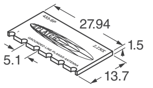

Fig. 14

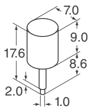

Fig. 15

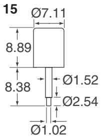

Fig. 16

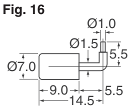

Fig. 17

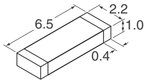

Fig. 18

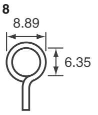

Fig. 19

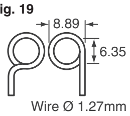

Fig. 20

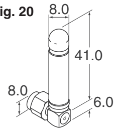

Fig. 21

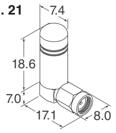

Fig. 22

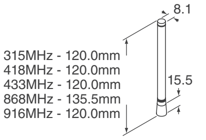

Fig. 23

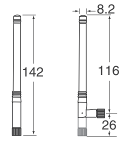

(Continued)

Antennas *(Cont.)*

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
23	1/2 Wave Whip SMA	868	ANT-868-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-868-CW-HWR-SMA
	1/2 Wave Whip SMA	916	ANT-916-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-916-CW-HWR-SMA
	1/2 Wave Whip SMA	1.4GHz	ANT-1.4-CW-HWR-SMA-ND◆	8.82	8.09	7.35	ANT-1.4-CW-HWR-SMA
24	Permanent Mount 1/4 Wave Whip SMA	868	ANT-868-WRT-SMA-ND◆	11.76	10.78	9.80	ANT-868-WRT-SMA
	Permanent Mount 1/4 Wave Whip SMA	916	ANT-916-WRT-SMA-ND◆	11.76	10.78	9.80	ANT-916-WRT-SMA
	Permanent Mount 1/4 Wave Whip SMA	2.45GHz	ANT-2.4-WRT-SMA-ND◆	11.76	10.78	9.80	ANT-2.4-WRT-SMA
	Permanent Mount 1/4 Wave Whip RP-SMA	868	ANT-868-WRT-RPS-ND◆	11.76	10.78	9.80	ANT-868-WRT-RPS
	Permanent Mount 1/4 Wave Whip RP-SMA	916	ANT-916-WRT-RPS-ND◆	11.76	10.78	9.80	ANT-916-WRT-RPS
	Permanent Mount 1/4 Wave Whip RP-SMA	2.45GHz	ANT-2.4-WRT-RPS-ND◆	11.76	10.78	9.80	ANT-2.4-WRT-RPS
25	1/2 Wave Whip RP-SMA	2.45GHz	ANT-2.4-CW-CT-RPS-ND◆	6.12	5.61	5.10	ANT-2.4-CW-CT-RPS
	1/2 Wave Whip SMA	2.45GHz	ANT-2.4-CW-CT-SMA-ND◆	6.12	5.61	5.10	ANT-2.4-CW-CT-SMA
26	1/4 Wave Whip SMA	315	ANT-315-CW-RH-SMA-ND◆	5.67	5.20	4.73	ANT-315-CW-RH-SMA
	1/4 Wave Whip SMA	418	ANT-418-CW-RH-SMA-ND◆	5.67	5.20	4.73	ANT-418-CW-RH-SMA
	1/4 Wave Whip SMA	433	ANT-433-CW-RH-SMA-ND◆	5.67	5.20	4.73	ANT-433-CW-RH-SMA
	1/4 Wave Whip SMA	868	ANT-868-CW-RH-SMA-ND◆	5.67	5.20	4.73	ANT-868-CW-RH-SMA
	1/4 Wave Whip SMA	916	ANT-916-CW-RH-SMA-ND◆	5.67	5.20	4.73	ANT-916-CW-RH-SMA
Evaluation Kit for CHP Antenna			AEK-2.45-CHP-ND	22.74	—	—	AEK-2.45-CHP

◆ ***RoHS Compliant*** * Cut Tape † Tape and Reel

Fig. 24

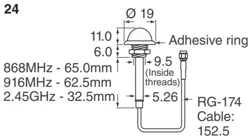

Fig. 25

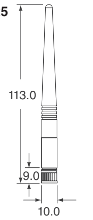

Fig. 26

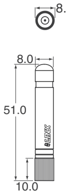

OEM Modules

FCC Pre-Certified OEM Products

Dimensions in mm

Fig. 1

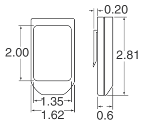

Fig. 2

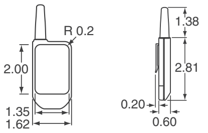

Fig. 3

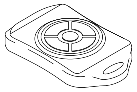

Fig. 4

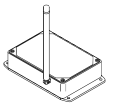

All units below are pre-approved with the FCC to allow immediate integration and sale in most OEM product.

Compact Handheld Transmitter: Compact 8-buttons handheld remote is capable of up to 150 feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships.

Long-Range Handheld Transmitter: Compact 8-buttons handled remote is capable of up to 300+ feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships. External antenna attached.

Keyfob Transmitter: This tiny keyfob features outstanding range performance and is configured with 1 to 5 buttons for a variety of OEM applications.

1 to 4 Position Relay Function Module:

Provides 4 latched relay outputs which are capable of switching external AC or DC powered loads up to 5 amps. Selectable addressing.

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
1	Compact Handheld Transmitter	418	CMD-HHCP-418-ND	26.34	24.15	21.95	CMD-HHCP-418
		433	CMD-HHCP-433_-ND◆	29.40	26.88	23.52	CMD-HHCP-433_
		418	CMD-HHCP-418-MD_-ND◆	30.45	27.84	23.49	CMD-HHCP-418-MD_
		433	CMD-HHCP-433-MD-ND◆	30.45	27.84	23.49	CMD-HHCP-433-MD
		418	OTX-418-HH-CP8-MS-ND◆	37.48	34.36	31.23	OTX-418-HH-CP8-MS
		433	OTX-433-HH-CP8-MS-ND◆	37.48	34.36	31.23	OTX-433-HH-CP8-MS
2	Long-Range Handheld Transmitter	315	CMD-HHLR-315-ND	29.94	27.45	24.95	CMD-HHLR-315
		418	CMD-HHLR-418_-ND◆	32.41	29.64	24.95	CMD-HHLR-418_
		433	CMD-HHLR-433-ND	29.94	27.45	24.95	CMD-HHLR-433
		315	CMD-HHLR-315-MD-ND◆	30.66	28.11	25.56	CMD-HHLR-315-MD
		418	CMD-HHLR-418-MD_-ND◆	33.46	30.60	25.82	CMD-HHLR-418-MD_
		433	CMD-HHLR-433-MD_-ND◆	33.46	30.60	25.82	CMD-HHLR-433-MD_
		418	OTX-418-HH-LR8-MS-ND◆	39.36	36.08	32.80	OTX-418-HH-LR8-MS
		433	OTX-433-HH-LR8-MS-ND◆	39.36	36.08	32.80	OTX-433-HH-LR8-MS
3	1 to 5 Button FCC Pre-certified Keyfob Transmitter	418	CMD-KEY1-418-ND◆	17.94	16.45	14.95	CMD-KEY1-418
		433	CMD-KEY1-433-ND◆	17.94	16.45	14.95	CMD-KEY1-433
		418	CMD-KEY2-418-ND◆	17.94	16.45	14.95	CMD-KEY2-418
		433	CMD-KEY2-433-ND◆	17.94	16.45	14.95	CMD-KEY2-433
		418	CMD-KEY3-418-ND◆	17.94	16.45	14.95	CMD-KEY3-418
		433	CMD-KEY3-433-ND◆	17.94	16.45	14.95	CMD-KEY3-433
		418	CMD-KEY4-418-ND◆	17.94	16.45	14.95	CMD-KEY4-418
		433	CMD-KEY4-433-ND◆	17.94	16.45	14.95	CMD-KEY4-433
		315	CMD-KEY5-315-ND◆	17.94	16.45	14.95	CMD-KEY5-315
		418	CMD-KEY5-418-ND◆	17.94	16.45	14.95	CMD-KEY5-418
		433	CMD-KEY5-433-ND◆	17.94	16.45	14.95	CMD-KEY5-433
		315	OTX-315-HH-KF5-MS-ND◆	21.54	19.75	17.95	OTX-315-HH-KF5-MS
		418	OTX-418-HH-KF5-MS-ND◆	21.54	19.75	17.95	OTX-418-HH-KF5-MS
		433	OTX-433-HH-KF5-MS-ND◆	21.54	19.75	17.95	OTX-433-HH-KF5-MS
4	1 to 4 Position Relay Function Module	315	FCTN-RLY4XX-315-2-ND◆	59.94	54.95	49.96	FCTN-RLY4-315
		418	FCTN-RLY4-418-ND	59.85	54.72	49.96	FCTN-RLY4-418
		433	FCTN-RLY4XX-433-2-ND	59.94	54.95	49.96	FCTN-RLY4-433-2
NEW! Accessories — RoHS Compliant NEW!							
Boot for OEM Transmitter			OTX-ACC-KIT-HH-GRY-ND	3.50	3.20	2.50	OTX-ACC-KIT-HH-GRY
Leash for OEM Transmitter			OTX-ACC-LSH-8.5-ND	2.52	2.31	1.80	OTX-ACC-LSH-8.5

◆ ***RoHS Compliant***

Evaluation Kits and Accessories

These kits provide the most complete opportunity to evaluate the Linx module series of your choice and then begin the integration of it into your own design.

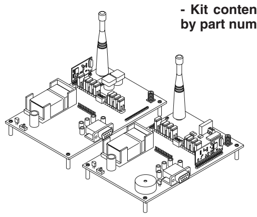

HP Series Shown - Kit contents vary by part number

Basic Evaluation Kit:

This kit is a quick way to evaluate the field performance of Linx products. The kit does not allow for the level of testing and interface possible with Master Kits but provides a cost-effective starting point.

Master Evaluation/Development System Kit:

The kits not only allow evaluation of the module series you have chosen, but also speed the development of your own design via on-board prototyping area and breakout headers.

Description	Freq. (MHz)	Digi-Key Part No.	Price Each	Linx Part No.
Basic Evaluation Kits				
SC Series	916	EVAL-916-SC-P-ND	199.00	EVAL-916-SC
KH Series	433	EVAL-433-KH-ND	149.00	EVAL-433-KH
KH2 Series	315	EVAL-315-KH2-ND◆	178.80	EVAL-315-KH2
	418	EVAL-418-KH2-ND◆	178.80	EVAL-418-KH2
	433	EVAL-433-KH2-ND◆	178.80	EVAL-433-KH2
ES Series	869	EVAL-869-ES-ND◆	214.80	EVAL-869-ES
	916	EVAL-916-ES-ND	214.80	EVAL-916-ES
Keyfob Series	418	EVAL-418-KEY5-ND	142.80	EVAL-418-KEY5
	433	EVAL-433-KEY5-ND◆	142.80	EVAL-433-KEY5
HHCP Series	433	EVAL-433-HHCP-ND◆	154.80	EVAL-433-HHCP
HHLR Series	418	EVAL-418-HHLR-ND	154.80	EVAL-418-HHLR
	433	EVAL-433-HHLR-ND◆	154.80	EVAL-433-HHLR
LR Series	315	EVAL-315-LR-ND	139.00	EVAL-315-LR
	418	EVAL-418-LR-ND	139.00	EVAL-418-LR
	433	EVAL-433-LR-ND	139.00	EVAL-433-LR-S
LT Series	315	EVAL-315-LT-ND◆	178.80	EVAL-315-LT
	418	EVAL-418-LT-ND◆	178.80	EVAL-418-LT
	433	EVAL-433-LT-ND◆	178.80	EVAL-433-LT
LC Series	315	EVAL-315-LC-ND◆	139.00	EVAL-315-LC
	433	EVAL-433-LC-ND◆	139.00	EVAL-433-LC
Master Evaluation / Development System Kits				
HP-3 Series	900	MDEV900HP3PPSRS23-ND	358.80	MDEV-900-HP3-PPS-RS232
	900	MDEV-900-HP3-PPS-USB-ND◆	388.80	MDEV-900-HP3-PPS-USB
	900	MDEV-900-HP3-SPS-RS232-ND◆	358.80	MDEV-900-HP3-SPS-RS232
	900	MDEV-900-HP3-SPS-USB-ND◆	388.80	MDEV-900-HP3-SPS-USB
ES Series	869	MDEV-869-ES-RS232-ND◆	358.80	MDEV-869-ES-RS232
	916	MDEV-916-ES-RS232-ND◆	358.80	MDEV-916-ES-RS232
	869	MDEV-869-ES-USB-ND◆	388.80	MDEV-869-ES-USB
	916	MDEV-916-ES-USB-ND◆	388.80	MDEV-916-ES-USB
SC-P Series	916	MDEV-916-SC-P-ND	299.00	MDEV-916-SC-P
SC-S Series	916	MDEV-916-SC-S-ND	299.00	MDEV-916-SC-S
QS Series	—	MDEV-USB-QS-ND	154.80	MDEV-USB-QS
MS Series	418	MDEV-418-HH-KF5-MS-ND	179.94	MDEV-418-HH-KF5-MS
	433	MDEV-433-HH-KF5-MS-ND	179.94	MDEV-433-HH-KF5-MS
	315	MDEV-315-HH-CP8-MS-ND◆	179.94	MDEV-315-HH-CP8-MS
	418	MDEV-418-HH-CP8-MS-ND◆	179.94	MDEV-418-HH-CP8-MS
	418	MDEV-418-HH-LR8-MS-ND	179.94	MDEV-418-HH-LR8-MS
	418	MDEV-LICAL-MS-ND	298.80	MDEV-LICAL-MS
MS Series with ES Series	—	MDEV-LICAL-MS-ES-ND◆	298.80	MDEV-LICAL-MS-ES
HS Series	418	MDEV-LICAL-HS-ND	358.80	MDEV-LICAL-HS
	418	MDEV-418-HH-CP8-HS-ND◆	179.94	MDEV-418-HH-CP8-HS
	433	MDEV-433-HH-CP8-HS-ND◆	179.94	MDEV-433-HH-CP8-HS
	418	MDEV-418-HH-LR8-HS-ND◆	179.94	MDEV-418-HH-LR8-HS
	433	MDEV-433-HH-LR8-HS-ND◆	179.94	MDEV-433-HH-LR8-HS
HS Series with ES Series	—	MDEV-LICAL-HS-ES-ND◆	358.80	MDEV-LICAL-HS-ES
SG Series	1,575.42	MDEV-GPS-SG-ND◆ ***NEW!***	249.00	MDEV-GPS-SG
SR Series	1,575.42	MDEV-GPS-SR-ND◆ ***NEW!***	289.00	MDEV-GPS-SR
Accessories — RoHS Compliant				
CR2032 Coin Battery Holder	—	BAT-HLD-001-ND	.26	BAT-HLD-001

◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Modules / Broadband Amplifiers Evaluation Kits / Interface ICs

Dimensions in mm

Fig. 1

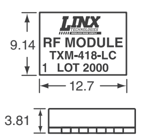

Fig. 2

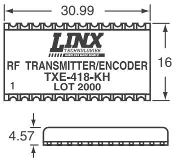

Fig. 3

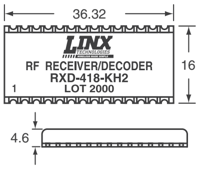

Fig. 4

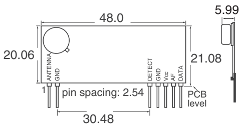

Fig. 5

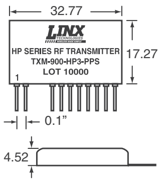

Fig. 6

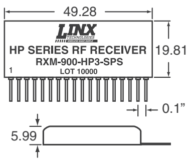

Fig. 7

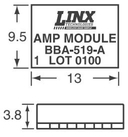

Fig. 8

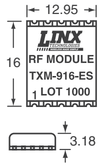

Fig. 9

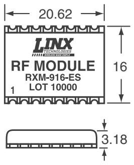

Fig. 10

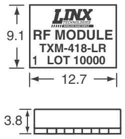

Fig. 11

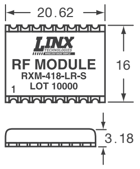

Fig. 12

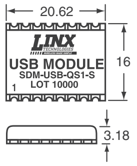

Fig. 13

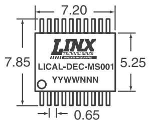

Fig. 14

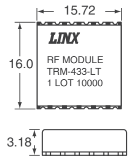

Fig. 15 ***NEW!***

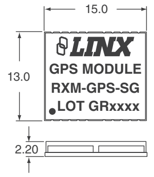

Fig. 16 ***NEW!***

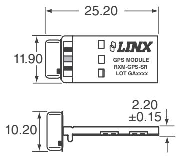

LC Series – Ultra-Compact Low-Cost RF TX Modules: Operating in the 260 ~ 470MHz band, these tiny RF modules provide a complete and cost-effective solution for the wireless transfer of serial control and command information over distances in excess of 300 ft.
• 2.7 ~ 5.2VDC range • 1.5mA average • +3dBm output • 5Kbps maximum data rate • Low harmonics

KH Series – Transmitter And Receiver Featuring Integrated Encoder/Decoders: This series combines the popular LC TX/RX with an integrated encoder/decoder pair. The encoder module accepts up to eight parallel inputs. This allows the direct connection of switches or a microcontroller.

KH2 Series – This series is ideally suited for applications such as remote control/command and keyless entry. It combines a high-performance RF receiver with an on-board decoder. When paired with a matching KH Series transmitter/encoder module, OEM transmitter, or LC or LR Series transmitter and Holtek HT640 encoder combination, a highly reliable wireless link is formed, capable of transferring the status of 8 parallel inputs for distances of up to 3,000 ft. Ten tri-state address lines provide 59,049 (3^{10}) different addresses.

RM Series – Provides a complete TX/RX solution in a compact SIP style module. This series utilizes an advanced SAW based design and FM/FSK modulation and operates in the 260 ~ 470MHz band.
Rx: • 4.0 ~ 9.0VDC range • 14mA average • -103 Typical sensitivity

HP3 Series – High-Performance, Low-Cost, RF TX/RX Modules: These modules are designed for the popular 902 ~ 928MHz band. The modules offer 8 or 256 selectable channels and are capable of transmitting analog and digital information for distances of up to 1000 feet. Available in SIP or SMT package.
Tx: • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synthesized architecture • 2.7 ~ 3VDC supply range • Low power (15mA average current): • 0dbm output power • 100Hz ~ 25kHz analog bandwidth • CTS
Rx: • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synthesized architecture • 2.7 ~ 18VDC supply range • Low power (18mA average current; 50µA powerdown) • 50Kbps maximum data rate • 50Hz ~ 25kHz analog bandwidth • RSSI output • Powerdown control

BBA Series – Broadband RF Amplifiers: These amplifiers are well suited to a wide range of amplification and buffering applications including extending the range of Linx's own RF modules (when legally appropriate). The hybrid amps are pre-matched to 50Ω and require no external RF components.
BBA-322: • High gain model • 10MHz ~ 3GHz broadband operation • +20dB small signal gain at 900MHz • Up to +10 (10mW) Linear output power • 3.8dB noise figure • Operates from a single supply
BBA-519: • High output model • 10MHz ~ 4GHz broadband operation • +18dB Small Signal gain at 900MHz • Up to +17 (50mW) Linear output power • 4.8dB noise figure

ES Series – Housed in a tiny SMD package, this series utilizes an advanced FM/FSK-based synthesized architecture to provide superior performance and noise immunity when compared to AM/OOK solutions. An outstanding 56Kbps maximum data rate and wide-range analog capability make the ES Series equally at home with digital data or analog sources such as audio. A host of useful features including RSSI, PDN, audio reference, LVL ADJ, low-voltage detect and a microprocessor clock source are provided. Operates at 916.48MHz which in North America allows an unlimited variety of applications including data and audio links. Audio 20Hz ~ 28kHz, very low current for long life in battery applications.
Tx: • Supply voltage: 2.1V ~ 4V • Current: 6.5 ~ 7.5mA • 0dbm output power • Sleep: 90µA
Rx: • Supply voltage: 4.5V ~ 5.5V • Current: 5.5 ~ 6.5mA • Sleep: 50µA

LR Series – This receiver is ideal for the wireless transfer of serial data, control or command information in the 260 ~ 470MHz band • Links less than 3000 feet will benefit from a more reliable signal • Rx is Footprint compatible with popular LC-S series • 10kbps data rate • Range in excess of 3000 feet • SMD package • No external components required (except antenna) • Operating voltage down to 2.7V • 5kHz analog BW • -112dbm receiver sensitivity typical • 5.2mA supply current typical

QS Series – Allows the rapid addition of USB to virtually any device. Housed in a compact SMD package, the QS Module provides a complete solution for converting between USB and TTL logic output. • Applications include interfacing Linx RF Modules, MCUs, etc., to a USB interface • 4.4 ~ 6VDC supply • Low current consumption, 26mA • USB Bus or self powered • No external components required (except USB jack)

HS, MS and LS Series – Encoders and decoders designed for remote control applications. They allow the status of up to 8 buttons to be securely transferred over a wireless link. LS Series provides a simple on/off line transfer for up to 4 connections and can be used to drive LEDs, buzzers or digital circuitry. The MS series provides secure 24-bit addressing for increased security and the HS series provides a highly secure encryption algorithm to prevent unauthorized access.
Features: • 8 data lines • Low 2.0V ~ 5.5V operating voltage • Low supply current (370µA @ 3V) • Ultra low 0.1µA standby current • Selectable baud rates

MT Series – The MT Series transcoders are designed for bidirectional remote control applications. Eight status lines can be set up in any combination of inputs and outputs for the transfer of button or contact states.
Features: • Bi-directional control • Automatic confirmation • Secure 2^{24} possible addresses • 8 status lines • Serial Interface Engine (SIE) • Definable recognition authority

LT Series – This transceiver is ideal for the bidirectional wireless transfer of serial data, control, or command information in the favorable 260 ~ 470MHz band. The transceiver is capable of generating +10dBm into a 50Ω load and achieves an outstanding typical sensitivity of -112dBm.
Features: • Long range • Data rates to 10,000bps • No external RF components required • Low power consumption • RSSI and power-down functions

SG and SR Series – Both the SG and SR Series GPS receiver modules are a self-contained high-performance GPS receiver with an on-board LNA and SAW filter. Based on the SiRFstar III chipset, it provides exceptionally sensitivity, even in dense foilage and urban canyons.

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
			LC Series — RoHS Compliant				
1	Transmitter	315	TXM-315-LC_-ND	6.90	6.31	5.60	TXM-315-LC_
	Transmitter	418	TXM-418-LC_-ND	6.90	6.31	5.60	TXM-418-LC_
	Transmitter	433	TXM-433-LC-ND	6.90	6.31	5.60	TXM-433-LC
			KH/KH2 Series				
2	Transmitter/Encoder	315	TXE-315-KH-ND	9.98	9.12	7.80	TXE-315-KH
	Transmitter/Encoder	315	TXE-315-KH2-ND◆	9.36	8.58	7.80	TXE-315-KH2
	Transmitter/Encoder	433	TXE-433-KH2-ND◆	9.36	8.58	7.80	TXE-433-KH2
3	Receiver/Decoder	315	RXD-315-KH2-ND◆	14.34	13.15	11.95	RXD-315-KH2
	Receiver/Decoder	418	RXD-418-KH2-ND◆	14.34	13.15	11.95	RXD-418-KH2
	Receiver/Decoder	433	RXD-433-KH2-ND◆	14.34	13.15	11.95	RXD-433-KH2
			RM Series				
4	Receiver	418	RXM-418-RM-ND	36.66	33.52	28.31	RXM-418-RM
			HP3 Series				
5	Transmitter 8 Channel	900	TXM-900-HP3SPO-ND◆	28.32	25.96	23.60	TXM-900-HP3SPO
	Transmitter 8/120 Channel	900	TXM-900-HP3-PPS-ND	28.92	26.51	24.10	TXM-900-HP3-PPS
6	Receiver 8 Channel	900	RXM-900-HP3-PPO_-ND◆	43.40	39.68	30.47	RXM-900-HP3-PPO_
	Receiver 8 Channel	900	RXM-900-HP3-SPO-ND◆	31.39	28.78	28.02	RXM-900-HP3-SPO
	Receiver 8/120 Channel	900	RXM-900-HP3-PPS-ND	35.94	32.95	32.13	RXM-900-HP3-PPS
			BBA Series — RoHS Compliant				
7	Hi-Power Broadband RF Amp.	10 ~ 4000	BBA-519-A-ND	16.74	15.35	13.95	BBA-519-A
			ES Series — RoHS Compliant				
8	Transmitter	869	TXM-869-ES_-ND	13.84	12.66	11.95	TXM-869-ES_
	Transmitter	916	TXM-916-ES_-ND	13.84	12.66	10.87	TXM-916-ES_
9	Receiver	869	RXM-869-ES_-ND	17.12	15.65	13.95	RXM-869-ES_
	Receiver	916	RXM-916-ES_-ND	17.12	15.65	12.92	RXM-916-ES_
			LR Series				
10	Transmitter	315	TXM-315-LR-ND◆	7.46	6.82	5.95	TXM-315-LR
	Transmitter	418	TXM-418-LR-ND	7.46	6.82	5.95	TXM-418-LR
	Transmitter	433	TXM-433-LR-ND◆	7.14	6.55	5.95	TXM-433-LR
11	Receiver	315	RXM-315-LR-ND◆	13.56	12.40	9.80	RXM-315-LR
	Receiver	418	RXM-418-LR-ND◆	13.56	12.40	9.80	RXM-418-LR
	Receiver	433	RXM-433-LR_-ND◆	13.56	12.40	9.80	RXM-433-LR_
			QS Series				
12	USB Module	—	SDM-USB-QS-S_-ND	13.91	12.72	11.24	SDM-USB-QS-S_
			HS Series — RoHS Compliant				
13	Encoder	—	LICAL-ENC-HS001-ND	4.14	3.80	3.45	LICAL-ENC-HS001
	Decoder	—	LICAL-DEC-HS001-ND	4.14	3.80	3.45	LICAL-DEC-HS001
			MS Series — RoHS Compliant				
13	Encoder	—	LICAL-ENC-MS001-ND	3.72	3.41	3.10	LICAL-ENC-MS001
	Decoder	—	LICAL-DEC-MS001-ND	3.72	3.41	3.10	LICAL-DEC-MS001
			MT Series — RoHS Compliant				
13	Transcoder	—	LICAL-TRC-MTCT-ND†	4.15	3.80	3.68	LICAL-TRC-MT
	Transcoder	—	LICAL-TRC-MTTR-ND‡	5043.36/1,600			LICAL-TRC-MT
			MT Series Development Kit — RoHS Compliant				
—	Master Development Kit	—	MDEV-LICAL-MT-ND	358.80	—	—	MDEV-LICAL-MT
			LS Series — RoHS Compliant				
—	Encoder - 8 Dip	—	LICAL-ENC-LS001-ND	3.47	3.18	2.89	LICAL-ENC-LS001
	Decoder - 8 Dip	—	LICAL-DEC-LS001-ND	3.47	3.18	2.89	LICAL-DEC-LS001
			LT Series — RoHS Compliant				
14	Transceiver	315	TRM-315-LT-ND	15.47	14.18	12.89	TRM-315-LT
	Transceiver	418	TRM-418-LT-ND	15.47	14.18	12.89	TRM-418-LT
	Transceiver	433	TRM-433-LT-ND	15.47	14.18	12.89	TRM-433-LT
			NEW! SG Series — RoHS Compliant NEW!				
15	GPS Receiver	1575.42	RXM-GPS-SG-B-ND	34.93	31.94	26.95	RXM-GPS-SG-B
			NEW! SR Series — RoHS Compliant NEW!				
16	GPS Receiver with Antenna	1575.42	RXM-GPS-SR-B-ND	47.20	43.16	36.41	RXM-GPS-SR-B

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Receivers and RFID Transceivers

RF Receivers: **Features:** • Single superhet architecture for low external component count • FSK for digital data and FM reception • FM/FSK demodulation with phase-coincidence demodulator • For Analog Signal transmission • Low current consumption in active mode and very low standby current • Switchable LNA gain for improved dynamic range • RSSI allows signal strength indication and ASK detection **Operating Temperature Range:** -40°C ~ 85°C **MLX71120 and MLX71121: Operating Temperature Range:** -40°C ~ 125°C
RFID Transceivers: **MLX90121 and MLX12115: Features:** • Low external component count **Operating Temperature Range:** -40°C ~ 85°C **MLX90109: Features:** • Addressing 100kHz ~ 150kHz frequency range transponder • Biphase and Manchester ASK • ON/OFF keying modulation **Operating Temperature Range:** -40°C ~ 85°C

Protocol	Package	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel‡ Qty.	Pricing
			RF Receivers / Transceiver					
FSK/FM/ASK	32-LQFP	315 ~ 433	TH71101ENE-ND	9.06	6.81	5.23	—	—
	32-LQFP	315 ~ 433	TH71102ENE-ND	9.56	7.18	5.52	—	—
	32-LQFP	868 ~ 915	TH71111ENE-ND	11.54	8.67	6.66	—	—
	32-LQFP	868 ~ 915	TH71112ENE-ND◆	10.80	8.11	6.23	—	—
	32-LQFP	300 ~ 930	TH7122ENECT-ND◆	13.40	10.07	7.74	2,000	3449.99/M
	32-QFN	300 ~ 930	MLX71120KLQ-ND◆	9.93	7.47	5.73	—	—
	32-QFN	300 ~ 930	MLX71121KLQ-ND◆	11.17	8.39	6.45	—	—
			RFID Transceivers — RoHS Compliant					
—	20-SSOP	13.56	MLX90121EFR_FSKCT-ND	14.55	9.86	6.90	1,500	3290.00/M
	20-SSOP	13.56	MLX12115EFRCT-ND	20.40	11.51	9.68	1,500	4610.00/M
	8-SOIC	125kHz	MLX90109EDCCT-ND	10.64	6.00	5.05	2,600	2130.01/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND

RF Receiver and RFID Transceiver Evaluation Boards and Development Kits

Description	Digi-Key Part No.	Price Each
Evaluation Boards and Development Kits for RF/RFID		
Evaluation Board for TH71102 Receiver	EVB71102B-433FSKC-ND	160.00
Evaluation Board for TH71111 Receiver	EVB71111B-915FSKC-ND	160.00
Evaluation Board for TH71112 Receiver	EVB71112B-868FSKC-ND	160.00
Evaluation Board for TH7122ENE Transceiver	EVB7122-433-FSK-C-ND◆	253.75
Evaluation Board for MLX90121	EVB90121-ND◆	145.00
Development Kit for MLX90121	DVK90121-ND◆	435.00
Evaluation Board for MLX90109	EVB90109-ND◆	73.00
Development Kit for MLX90109	DVK90109-ND◆	435.00
Kit for Long Range Reader Demonstrator	DEMO90121LR-ND◆	290.00

◆ ***RoHS Compliant***

ZigBee™ Modules and Development Kit

MeshNetics is a creator of easy-to-integrate 900MHz and 2.4GHz 802.15.4/ZigBee wireless RF modules and free mesh networking software, used by OEMs and system integrators to add wireless connectivity to their products and solutions. MeshNetics RF modules feature industry-leading range performance with a link budget of up to 124 dB, long battery life and ultra-small footprint. MeshNetics products are used to create reliable, self-healing wireless networks that enable solutions in building automation, energy management and efficiency, HVAC, AMR, predictive maintenance, asset tracking and other application areas.

Size (mm)	Supply Voltage (V)	Power Consumption Power Save (µA)	Power Consumption TX/RX (mA)	Frequency (MHz)	Max. Output Power (dBm)	Receiver Sensitivity (dBm)	Antenna Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Pricing 750	MeshNetics Part No.
							ZigBit™ Modules						
18.8 x 13.5	1.8 ~ 3.6	6	18/19	2400	+3	-101	Balance RF Output Pin	758-1000-1-ND	22.90	22.40	758-1000-2-ND	15300.00	MNZB-24-B0
38 x 13.5	3.0 ~ 3.6	6	50/23	2400	+20	-104	U.FL Connector	758-1011-1-ND	37.50	37.00	—	—	MNZB-A24-UFL
38 x 13.5	3.0 ~ 3.6	6	50/23	2400	+20	-104	Unbalanced RF Pin	758-1012-1-ND	36.90	36.40	—	—	MNZB-A24-U0
18.8 x 13.5	1.8 ~ 3.6	6	20/15	900	+11	-110	Balanced RF Pin	758-1007-1-ND	36.50	36.00	—	—	MNZB-900-B0

Innovation Through Technology™

QwikRadio® RF Receivers

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
QwikRadio Receiver/Data Demod	14-SOIC	576-1330-1-ND†	4.39	3.51	2.73	MICRF001YM TR
QwikRadio Receiver/Data Demod	14-SOIC	576-1330-2-ND‡	6142.50/2,500			MICRF001YM TR
QwikRadio Receiver/Data Demod	14-Dip	576-1331-ND	5.27	4.22	3.28	MICRF001YN
QwikRadio Receiver/Data Demod	14-SOIC	576-1336-ND	4.23	3.39	2.64	MICRF011YM
QwikRadio Receiver/Data Demod	14-Dip	576-1337-ND	5.09	4.07	3.17	MICRF011YN
QwikRadio LP UHF Receiver	8-SOIC	576-1334-ND	4.55	3.64	2.83	MICRF007YM
QwikRadio LP UHF Receiver	16-SOIC	576-1335-ND	4.55	3.64	2.83	MICRF009YM
QwikRadio LP UHF Receiver	8-SOIC	576-1962-5-ND	4.55	3.64	2.83	MICRF010YM
QwikRadio ASK Receiver 300 ~ 440MHz	16-SOIC	576-1332-ND	4.55	3.64	2.83	MICRF002YM
QwikRadio Sweep-Mode Receiver 300 ~ 440MHz	8-SOIC	576-1961-5-ND	3.22	2.58	2.01	MICRF008YM
QwikRadio ASK Receiver 300 ~ 440MHz	8-SOIC	576-2420-ND	4.55	3.64	2.83	MICRF022YM-FS24
QwikRadio ASK Receiver 300 ~ 440MHz	8-SOIC	576-2421-ND	4.55	3.64	2.83	MICRF022YM-FS48
QwikRadio Receiver 3V, 380 ~ 450MHz	16-QSOP	576-1964-5-ND	4.46	3.57	2.78	MICRF211AYQS
QwikRadio Receiver 3.3V, 300 ~ 350MHz	16-QSOP	576-1649-5-ND	4.46	3.57	2.78	MICRF213AYQS
QwikRadio Receiver 3.3V, 300 ~ 450MHz	16-QSOP	576-2997-ND	4.70	3.77	2.93	MICRF218AYQS
QwikRadio RF Receiver 300MHz ~ 450MHz	16-QSOP	576-3362-5-ND	4.46	3.57	2.78	MICRF219AYQS
QwikRadio RF Receiver 850MHz ~ 950MHz	16-QSOP	576-3230-5-ND	4.28	3.42	2.66	MICRF221AYQS

† Cut Tape ‡ Tape and Reel

QwikRadio® RF Transmitters

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
QwikRadio UHF ASK Transmitter	8-SOIC	576-1338-ND◆	3.22	2.58	2.01	MICRF102YM
QwikRadio ASK Transmitter 300 ~ 450MHz	SOT23-6	576-3229-1-ND◆†	1.65	1.32	.99	MICRF113YM6 TR
QwikRadio ASK Transmitter 300 ~ 450MHz	SOT23-6	576-3229-2-ND◆‡	2535.00/3,000			MICRF113YM6 TR
QwikRadio UHF ASK/FSK Transmitter	10-MSOP	576-1963-5-ND◆	2.38	1.90	1.43	MICRF112YMM
290 ~ 980MHz ISM Band ASK/FSK Transmitter	24-MLF®	576-1965-1-ND◆†	2.43	1.95	1.52	MICRF405YML TR
290 ~ 980MHz ISM Band ASK/FSK Transmitter	24-MLF	576-1965-2-ND◆‡	1377.00/1,000			MICRF405YML TR
Parallel Encoder for QwikRadio	10-MLF	576-3337-1-ND◆†	1.88	1.50	1.13	MICRF302YML TR
Parallel Encoder for QwikRadio	10-MLF	576-3337-2-ND◆‡	4690.00/5,000			MICRF302YML TR
QwikRadio UHF ASK/FSK Transmitter Evaluation Board		576-3603-ND ***NEW!***	44.40	38.40	36.00	MICRF112-433 EV

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

RadioWire® ISM Band Transceiver

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Micrel Part No.
MICRF505 850 ~ 950MHz ISM Transceiver	32-MLF	576-1659-1-ND	4.39	3.51	2.73	576-1659-2-ND	1,000	2486.00	MICRF505YML TR
MICRF506 410 ~ 450MHz ISM Transceiver	32-MLF	576-1966-1-ND	3.90	3.12	2.64	576-1966-2-ND	1,000	2438.00	MICRF506YML TR
MICRF600Z 902 ~ 928MHz ISM Transceiver Module	16-MOD1114Q	576-3269-1-ND	23.36	21.80	20.25	576-3269-2-ND	500	9731.50	MICRF600Z TR
MICRF610Z 868 ~ 870MHz ISM Transceiver Module	16-MOD1114Q	576-1467-1-ND	23.36	21.80	20.25	—	—	—	MICRF610Z TR
MICRF620Z 430 ~ 440MHz ISM Transceiver Module	16-MOD1114Q	576-1468-1-ND	23.36	21.80	20.25	576-1468-2-ND	500	9731.50	MICRF620Z TR

RadioWire® Development Kits

Description	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
RadioWire Development Kit for 902 ~ 928MHz	576-1605-ND	292.50	273.00	253.50	MICRF600DEV1
RadioWire Development Kit for 850 ~ 950MHz	576-1606-ND	292.50	273.00	253.50	MICRF505DEV1

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MICROCHIP

IEEE 802.15.4 - ZigBee™ RF Transceiver

This is a complete IEEE 802.15.4 radio and operates in the 2.4GHz band. Supports ZigBee, MiWi™ protocols and proprietary protocols to provide an ideal solution for wireless sensor networks, home automation, building automation and consumer applications.

Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock (MHz)	MAC Features	Encryption	Interface	Package	Digi-Key Part No.	Price Each		
												1	10	25
2.405 ~ 2.48	-95.00	0	Yes	18.00	22.00	20	CSMA-CA	AES128	4-Wire SPI	40-QFN	MRF24J40-I/ML-ND	4.30	3.24	2.97
2.405 ~ 2.475	-102.00	20	Yes	120.00	25.00	20	CSMA-CA	AES128	4-Wire SPI	12-Module	MRF24J40MB-I/RM-ND ***NEW!***	26.58	17.40	17.39

NEW! 802.11b Wi-Fi®

Features: • Single-chip 802.11b including MAC, baseband, RF and power amplifier • Data Rate: 1 and 2 Mbps • 802.11b/g/n compatible • Low power operation • API for embedded markets, no OS required • PCB or external antenna options • Hardware support for AES and RC4 based ciphers (WEP, WPA, WPA2 security) • SPI slave interface with interrupt • Single 3.3V supply, operates from 2.7 ~ 3.6V • Wi-Fi Certified • FCC Certified • IC Certified • Fully compliant with EU and meets the R&TTE Directive for Radio Spectrum • Radio Type Approval Certified

Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock (MHz)	Physical Dimensions (mm)	Encryption	Interface	Package	Digi-Key Part No.	Price Each
2.405 ~ 2.48	-91.00	10	Yes	154	85	25	21 x 31	AES128	SPI	36-Module	ZG2100MC-ND	29.40
2.405 ~ 2.48	-91.00	10	Yes	154	85	25	21 x 31	AES128	SPI	36-Module	ZG2101MC-ND	29.40
2.405 ~ 2.48	-91.00	10	Yes	154	85	25	21 x 31	AES128	4-Wire SPI	36-Module	MRF24WB0MA/RM-ND	44.98
2.405 ~ 2.48	-91.00	10	Yes	154	85	25	21 x 31	AES128	4-Wire SPI	36-Module	MRF24WB0MB/RM-ND	44.98
MRF24WB0MA Wi-Fi PICtail/PICtail Plus Daughter Board											AC164136-4-ND	59.99

NEW! ISM Band Sub-GHz

Features: • Fully Integrated Sub-GHz Transceiver • Supports Proprietary Sub-GHz Wireless Protocols • 4-wire Serial Peripheral Interface (SPI) Compatible Interface • CMOS/TTL Compatible I/Os • Clock and Reset Signals for Microcontroller • Integrated 10MHz Oscillator Circuitry • Integrated Low Battery Voltage Detector • Supports Power-Saving Modes • Operating Voltage: 2.2 ~ 3.8V • Low-Current Consumption, Typically: 11mA in RX mode, 15mA in TX mode, and 0.3µA in Sleep mode • Industrial Temperature Range • 16-pin TSSOP Package

Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock (MHz)	Sleep	MAC	MAC Features	Encryption	Interface	Digi-Key Part No.	Price Each		
													1	10	25
433/868/915	-110.00	7	Yes	15	11	—	Yes	—	—	—	4-Wire SPI	MRF49XA-I/ST-ND	3.00	2.35	2.16

MultiTech Systems

Universal Socket Modems

Multi-Tech Systems embedded modems offer easy integration of multiple technologies, all in the same universal socket modem interface.
Development Kits: MTSMI-UDK: This developer kit allows the user to configure his own development kit with a modem of their choice. The target board is compatible with any Serial Socket modem module, allowing for rapid development of any project with this single board. *Purchase of the desired universal socket modem is required*.
MTSMI-P-DK: This developer kit allows for the development with modems that have a parallel interface.
MTRJ-DK: This developer's kit allows for development with the RJModem series, which is a complete integrated modem with global compliance in a small form factor.

Description	Voltage (V)	Interface	Digi-Key Part No.	Price Each	Multi-Tech Part No.
SocketEthernet IP Device Server	5	Serial-to-Ethernet	591-1078-ND	34.58	MT100SEM.R1
SocketWireless® Wi-Fi® Device Server, WLAN	3.3	Serial-to-Wi-Fi, 802.11b	591-1038-ND	84.64	MT800SWM-L
SocketWireless Wi-Fi Device Server, WLAN	5	Serial-to-Wi-Fi, 802.11b	591-1037-ND	84.64	MT800SWM
SocketWireless Bluetooth® V2.0 Device Server	5	Serial-to-Bluetooth	591-1067-ND	71.67	MTS2BTSMI.R3
SocketModem® Dial-up Modem, Serial Data	3.3	V.22bis	591-1034-ND	23.62	MT2456SMI-L-22.R3
SocketModem Dial-up Modem, Serial Data	5	V.22bis	591-1033-ND	25.54	MT2456SMI-22.R3
SocketModem Dial-up Modem, Serial Data	3.3	V.22bis	591-1066-ND	16.93	MT2492SMI-L-22
SocketModem Dial-up Modem, Serial Data	3.3	V.34	591-1065-ND	20.55	MT2492SMI-L-34
SocketModem Dial-up Modem, Serial Data	3.3	V.92	591-1064-ND	25.39	MT2492SMI-L-92
SocketModem Dial-up Modem, Serial Data	5	V.22bis	591-1063-ND	16.93	MT2492SMI-22
SocketModem Dial-up Modem, Serial Data	5	V.34	591-1062-ND	20.55	MT2492SMI-34
SocketModem Dial-up Modem, Serial Data	5	V.92	591-1061-ND	25.39	MT2492SMI-92
SocketModem Dial-up Modem, Serial Data/Fax	3.3	V.32bis	591-1027-ND	33.85	MT5600SMI-L-32.R2
SocketModem Dial-up Modem, Serial Data/Fax	3.3	V.34	591-1001-ND	36.27	MT5600SMI-L-34.R2
SocketModem Dial-up Modem, Serial Data/Fax	3.3	V.92	591-1002-ND	38.69	MT5600SMI-L-92.R2
SocketModem Dial-up Modem, Serial Data/Fax	5	V.32bis	591-1012-ND	36.27	MT5600SMI-32.R2
SocketModem Dial-up Modem, Serial Data/Fax	5	V.34	591-1028-ND	38.69	MT5600SMI-34.R2
SocketModem Dial-up Modem, Serial Data/Fax	5	V.92	591-1000-ND	41.11	MT5600SMI-92.R2
SocketModem Dial-up Modem, Serial Data/Fax, without LED pins	3.3	V.34	591-1029-ND	36.27	MT5600SMI-X-L-34.R2
SocketModem Dial-up Modem, Parallel Data/Fax	5	V.34	591-1030-ND	38.69	MT5600SMI-P-34.R2
SocketModem Dial-up Modem, Serial Data/Fax, Industrial Temperature	5	V.92/V.34 (fax)	591-1004-ND	56.72	MT5634SMI-ITP-92.R2
SocketModem Dial-up Modem, Parallel Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1025-ND	56.72	MT5634SMI-P-HV-92.R2
SocketModem Dial-up Modem, Parallel Data/Fax, Industrial Temperature	5	V.92/V.34 (fax)	591-1026-ND	56.72	MT5634SMI-P-ITP-92.R2
SocketModem Dial-up Modem, Serial Data	3.3	V.34	591-1083-ND	26.60	MT5656SMI-L-D-34
SocketModem Dial-up Modem, Serial Data	3.3	V.92	591-1081-ND	31.44	MT5656SMI-L-D-92
SocketModem Dial-up Modem, Serial Data	5	V.34	591-1082-ND	26.60	MT5656SMI-D-34
SocketModem Dial-up Modem, Serial Data	5	V.92	591-1080-ND	31.44	MT5656SMI-D-92
SocketModem Dial-up Modem, Serial Data/Fax, Speakerphone I/O	5	V.32bis	591-1021-ND	38.69	MT5656SMI-V-32.R2
SocketModem Dial-up Modem, Serial Data/Fax, Speakerphone I/O	5	V.34	591-1020-ND	41.11	MT5656SMI-V-34.R2
SocketModem Dial-up Modem, Serial Data/Fax, Speakerphone I/O	5	V.92	591-1019-ND	43.53	MT5656SMI-V-92.R2
SocketModem Dial-up Modem, Serial Data/Fax	5	V.92/V.34 (fax)	591-1055-ND	44.74	MT9234SMI-92
SocketModem Dial-up Modem, Parallel Data/Fax	5	V.92/V.34 (fax)	591-1058-ND	44.74	MT9234SMI-P-92
SocketModem Dial-up Modem, Parallel Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1060-ND	50.91	MT9234SMI-P-HV-92
SocketModem CDMA2000 1xRTT Modem with Voice, for Verizon Networks (USA)	5	CDMA2000 1x	591-1141-ND ***NEW!***	195.75	MTSMC-C1-V-N3
SocketModem CDMA2000 1xRTT Modem with Voice, for Sprint Networks (USA)	5	CDMA2000 1x	591-1148-ND ***NEW!***	195.75	MTSMC-C1-V-N2
SocketModem CDMA2000 1xRTT Modem with Universal IP, for Sprint Networks (USA)	5	CDMA2000 1x	591-1142-ND ***NEW!***	211.78	MTSMC-C1-IP-N2
SocketModem CDMA2000 1xRTT Modem with Universal IP, for Verizon Networks (USA)	5	CDMA2000 1x	591-1143-ND ***NEW!***	211.78	MTSMC-C1-IP-N3
SocketModem CDMA2000 1xRTT Modem with GPS, for Verizon Networks (USA)	5	CDMA2000 1x	591-1144-ND ***NEW!***	242.93	MTSMC-C1-GP-N3
SocketModem CDMA2000 1xRTT Modem with GPS, for Sprint Networks (USA)	5	CDMA2000 1x	591-1145-ND ***NEW!***	242.93	MTSMC-C1-GP-N2
SocketModem CDMA2000 1xRTT Modem, for Sprint Networks(USA)	5	CDMA2000 1x	591-1146-ND ***NEW!***	195.75	MTSMC-C1-N2
SocketModem CDMA2000 1xRTT Modem, for Verizon Networks(USA)	5	CDMA2000 1x	591-1147-ND ***NEW!***	195.75	MTSMC-C1-N3
SocketModem EDGE Wireless Modem, Quad-Band GSM	5	EDGE/GSM	591-1007-ND	221.77	MTSMC-E.R2
SocketModem EDGE Wireless Modem, Quad-Band GSM with Voice Capability	5	EDGE/GSM	591-1094-ND	193.16	MTSMC-E-V.R4
SocketModem GPRS Wireless Modem, Quad-Band, 850/1900MHz	5	GSM/GPRS	591-1087-ND	156.94	MTSMC-G-F4.R1
SocketModem GPRS Wireless Modem, Quad-Band w/Voice Capability, 850/1900MHz	5	GSM/GPRS	591-1088-ND	156.94	MTSMC-G-F4-V.R1
SocketModem GPRS Wireless Modem, Quad-Band, 900/1800MHz	5	GSM/GPRS	591-1089-ND	156.94	MTSMC-G-F4-ED.R1
SocketModem GPRS Wireless Modem, Quad-Band w/Voice Capability, 900/1800MHz	5	GSM/GPRS	591-1090-ND	156.94	MTSMC-G-F4-V-ED.R1
SocketModem GPRS Wireless Modem, Quad-Band 850/1900MHz	5	GSM/GPRS	591-1097-ND	156.94	MTSMC-G-F4-IP
SocketModem GPRS Wireless Modem, Quad-Band 900/1800MHz	5	GSM/GPRS	591-1098-ND	156.94	MTSMC-G-F4-IP-ED
SocketModem GPRS Wireless Modem, Quad-Band GSM iCell, 850/1900MHz	5	GSM/GPRS	591-1111-ND ***NEW!***	126.68	MTSMC-G2-IP
SocketModem GPRS Wireless Modem, Quad-Band GSM iCell, 900/1800MHz	5	GSM/GPRS	591-1112-ND ***NEW!***	126.68	MTSMC-G2-IP-ED
SocketModem GPRS Wireless Modem, Quad-Band, 850/1900MHz	5	GSM/GPRS	591-1113-ND ***NEW!***	112.53	MTSMC-G2
SocketModem GPRS Wireless Modem, Quad-Band, 900/1800MHz	5	GSM/GPRS	591-1114-ND ***NEW!***	112.53	MTSMC-G2-ED
SocketModem GPRS Wireless Modem, Quad-Band w/Voice Capability, 850/1900MHz	5	GSM/GPRS	591-1115-ND ***NEW!***	112.53	MTSMC-G2-V
SocketModem HSDPA Wireless Modem, Tri-Band Serial	5	EDGE/GSM/GPRS/HSDPA/UMTS	591-1095-ND	412.53	MTSMC-H

(Continued)

Universal Socket Modems *(Cont.)*

Description	Voltage (V)	Interface	Digi-Key Part No.	Price Each	Multi-Tech Part No.
SocketModem HSDPA Wireless Modem, Tri-Band USB	5	EDGE/GSM/GPRS/HSDPA/UMTS	591-1096-ND	398.23	MTSMC-H-U
SocketModem Wireless Modem, V.92 Serial Date/Fax	5	V.92	591-1099-ND	53.20	MT5656MI-IP-92
RJModem® Modem, RJ-11 Port, Serial Data	3.3	V.34	591-1005-ND	39.69	MT5656RJ-L-34.R2
RJModem Modem, RJ-11 BIS Serial Data	5	V.32	591-1100-ND	37.00	MT5656RJ-32.R3
RJModem® Modem, RJ-11 Serial Data	5	V.92	591-1102-ND	42.35	MT5656RJ-92.R3
RJModem Modem, RJ-11 BIS Serial Data	3.3	V.32	591-1103-ND	37.00	MT5656RJ-L-32.R3
RJModem Modem, RJ-11 Serial Data	3.3	V.34	591-1104-ND	39.69	MT5656RJ-L-34.R3
RJModem Modem, RJ-11 Serial Data	3.3	V.92	591-1105-ND	42.35	MT5656RJ-L-92.R3
SocketModem	5	CDMA 800/1900 MHz	591-1106-ND	257.53	MTSMC-C-N2.R2
SocketModem	5	CDMA 800/1900 MHz	591-1107-ND	257.53	MTSMC-C-N3.R3
SocketModem	5	QUAD GPRS	591-1109-ND	156.94	MTSMC-G-F4-IP.R1
SocketModem	5	QUAD GPRS	591-1110-ND	156.94	MTSMC-G-F4-IP-ED.R1
SocketModem iCell	5	QUAD GSM/GPRS	591-1117-ND ***NEW!***	163.20	MTSMC-G2-GP-ED
SocketModem iCell	5	QUAD GSM/GPRS	591-1118-ND ***NEW!***	163.20	MTSMC-G2-GP
SocketModem EDGE	5	EDGE/GPRS	591-1119-ND ***NEW!***	151.28	MTSMC-E1-V
SocketModem EDGE	5	EDGE/GPRS	591-1120-ND ***NEW!***	151.28	MTSMC-E1
MMCModem GPRS Wireless Modem, Quad-Band, 850/1900MHz	5	GSM/GPRS	591-1054-ND	132.05	MTMMC-G-F4
MMCModem GPRS Wireless Modem, Quad-Band, 850/1900MHz	5	GSM/GPRS	591-1091-ND	161.70	MTMMC-G-F4.R1
MMCModem GPRS Wireless Modem, Quad-Band, 900/1800MHz	5	GSM/GPRS	591-1092-ND	161.70	MTMMC-G-F4-ED.R1
SocketModem — Serial Data/Fax	3.3, 5	V.92	591-1116-ND ***NEW!***	35.57	MT5692SMI-L-92
SocketWireless Wi-Fi®	3.3	802.11b/g	591-1121-ND ***NEW!***	69.19	MT810SWM-L-IP
SocketWireless Wi-Fi®	5	802.11b/g	591-1122-ND ***NEW!***	69.19	MT810SWM-IP
SocketModem — Serial Data/Fax (no LED pins)	3.3, 5	V.92	591-1123-ND ***NEW!***	35.57	MT5692SMI-X-L-92
SocketModem — Serial Data/Fax	3.3, 5	V.92	591-1124-ND ***NEW!***	39.45	MT5692SMI-V-92
SocketModem — Parallel Data/Fax	3.3, 5	V.92	591-1125-ND ***NEW!***	44.95	MT5692SMI-P-L-92
SocketModem — Parallel Data/Fax	3.3, 5	V.34	591-1126-ND ***NEW!***	43.99	MT5692SMI-P-L-34
SocketModem — Parallel Data/Fax	3.3, 5	V.92	591-1127-ND ***NEW!***	44.95	MT5692SMI-P-92
SocketModem — Parallel Data/Fax	3.3, 5	V.34	591-1128-ND ***NEW!***	43.99	MT5692SMI-P-34
SocketModem — Serial Data/Fax	3.3, 5	V.34	591-1129-ND ***NEW!***	34.61	MT5692SMI-L-34
SocketModem IP	3.3, 5	V.92	591-1130-ND ***NEW!***	62.70	MT5692SMI-IP-L-92
SocketModem IP	3.3, 5	V.92	591-1131-ND ***NEW!***	62.70	MT5692SMI-IP-92
SocketModem — Serial Data/Fax	3.3, 5	V.92	591-1132-ND ***NEW!***	35.57	MT5692SMI-92
SocketModem — Serial Data/Fax	3.3, 5	V.34	591-1133-ND ***NEW!***	34.61	MT5692SMI-34
SocketModem — Serial Data/Fax	5	V.92/V.34 (fax)	591-1149-ND ***NEW!***	52.14	MT9234SMI-92.R1
SocketModem — Serial Data/Fax	3.3	V.92/V.34 (fax)	591-1151-ND ***NEW!***	52.14	MT9234SMI-L-92.R1
SocketModem — Serial Data/Fax, High Voltage dielectric isolation	5	V.92/V.34 (fax)	591-1152-ND ***NEW!***	59.18	MT9234SMI-HV-92.R1
SocketEthernet IP	5	10/100 BaseT Ethernet	591-1134-ND ***NEW!***	34.58	MT100SEM.R2
SocketEthernet IP	3.3	10/100 BaseT Ethernet	591-1135-ND ***NEW!***	34.67	MT100SEM-L.R2
SocketEthernet IP	3.3	10/100 BaseT Ethernet	591-1136-ND ***NEW!***	34.67	MT100SEM-L-IP
SocketEthernet IP	3.3	10/100 BaseT Ethernet	591-1137-ND ***NEW!***	46.88	MT100SEM-L-HV-IP
SocketEthernet IP	5	10/100 BaseT Ethernet	591-1138-ND ***NEW!***	34.67	MT100SEM-IP
Device Networking Products					
Modem World Data/Fax Lease	5 ~ 32	V.92	881-1018-ND	259.00	MT5600BA-V92-NAM
Modem Data/Fax	5 ~ 32	V.92	881-1020-ND	89.00	MT5656ZDX
Modem World Data/Fax	5 ~ 32	V.92	881-1021-ND	159.00	MT9234ZBA-NAM
Modem World PCI Exprress	5 ~ 32	V.92	881-1022-ND	159.00	MT9234ZPX-PCIE
Modem World Universal PCI	5 ~ 32	V.92	881-1023-ND	99.00	MT9234ZPX-UPCI
Modem DC Power IP	5 ~ 32	CDMA 800/1900 MHz	881-1024-ND	257.00	MTCBA-C-N12
Modem US Bundle IP	5 ~ 32	CDMA	881-1025-ND	319.00	MTCBA-C-N12-NAM
Modem US Bundle RS-232	5 ~ 32	CDMA	881-1026-ND	257.00	MTCBA-C-N2
Modem US Bundle RS-232	5 ~ 32	CDMA	881-1027-ND	319.00	MTCBA-C-N2-NAM
Modem DC Power US RS-232	5 ~ 32	CDMA	881-1028-ND	257.00	MTCBA-C-N3
Modem Verizon RS-232 Bundle	5 ~ 32	CDMA	881-1029-ND	319.00	MTCBA-C-N3-NAM
Modem DC Power RS-232	5 ~ 32	GPRS Quad	881-1030-ND	250.00	MTCBA-E
Modem GPRS Quad EU Bundle RS-232	5 ~ 32	GPRS Quad	881-1031-ND	299.00	MTCBA-E-EU
Modem GPRS Quad US Bundle RS-232	5 ~ 32	GPRS Quad	881-1032-ND	299.00	MTCBA-E-NAM
Modem GPRS Quad Bundle USB	5 ~ 32	GPRS Quad	881-1033-ND	299.00	MTCBA-E-U
Modem Ethernet	5 ~ 32	GSM/GPRS Quad	881-1034-ND	360.00	MTCBA-G-EN-F4
Modem Ethernet US	5 ~ 32	GSM/GPRS Quad	881-1035-ND	399.00	MTCBA-G-EN-F4-NAM
Modem RS-232	5 ~ 32	GSM/GPRS Quad	881-1036-ND	149.00	MTCBA-G-F4
Modem US Power Cord	5 ~ 32	GSM/GPRS Quad	881-1037-ND	229.00	MTCBA-G-F4-NAM
Modem SB Bundle	5 ~ 32	GSM/GPRS Quad	881-1038-ND	229.00	MTCBA-G-U-F4
Modem US Bundle	5 ~ 32	Edge	881-1040-ND	319.00	MTCMR-E-NAM
Modem US Bundle	5 ~ 32	GPRS 850/1900 MHz	881-1041-ND	269.00	MTCMR-G-F4-NAM
Modem Intelligent	5 ~ 32	HSDPA	881-1042-ND	459.00	MTCMR-H
Modem Intelligent US Bundle	5 ~ 32	HSDPA	881-1043-ND	499.00	MTCMR-H-NAM
Wireless Router Intelligent	5 ~ 32	HSDPA	881-1039-ND	549.00	MTCBA-H-EN2-NAM
Device Networking Accessories					
Kit Accessory, CDMA/F2 Serial US Cord			881-1000-ND	49.00	AK-CF2-NAM
Kit Accessory, CDMA/F2 USB Global			881-1001-ND	35.00	AK-CF2-USB
Kit Accessory, F1 Serial Europe Cord			881-1002-ND	49.00	AK-F1-EU
Kit Accessory, F1 Serial US Cord			881-1003-ND	49.00	AK-F1-NAM
Kit Accessory, F1 USB Global			881-1004-ND	35.00	AK-F1-USB
Kit Accessory, Serial Europe Cord			881-1005-ND	49.00	AK-QB-EU
Kit Accessory, Serial US Cord			881-1006-ND	49.00	AK-QB-NAM
Kit Accessory, USB Global			881-1007-ND	35.00	AK-QB-USB
Kit Power/Telco China			881-1014-ND	14.29	LK-ZBA-CN
Kit Power/Telco Europe			881-1015-ND	14.29	LK-ZBA-EURO
Kit Power/Telco UK/Ireland			881-1016-ND	14.29	LK-ZBA-GB/IE
Kit Power/Telco North America			881-1017-ND	14.29	LK-ZBA-US/NAM
Power Cable, Fused DC			881-1013-ND	7.00	FPC-532-DC
Power Cable, DC			881-1044-ND	4.66	PC-932-DC
Power Cord with US Plug IEC-320			881-1045-ND	6.52	PC-IEC320-NAM
Power Supply, 100~ 240VAC Univ Requires IEC-320 CORD			881-1046-ND	17.69	PS-9V1A-LBC-U
Power Supply, 110 ~ 120VAC Transformer Style			881-1047-ND	11.17	PS-9V500MA-LBC
Mounting Bracket, GPRS/CDMA			881-1048-ND	4.66	WMB-CBA
Adapter, DE15-DE9 Global			881-1008-ND	7.00	CA15-9-ADP
Cable, Serial DE15-DE9 Data Only			881-1009-ND	7.00	CA15-9-D
Cable, Serial DE15-Y Voice/Data			881-1010-ND	11.00	CA15-9-DV
Cable, GPIO 6-Pin MTCMR Series			881-1011-ND	8.00	CA-CMR-GPIO
Cable, USB Global			881-1012-ND	7.00	CA-USB
Development Kits					
Universal Socket Modem Development Kit			591-1009-ND	312.50	MTSMI-UDK
Socket Modem Development Kit for Parallel Interface			591-1013-ND	187.50	MTSMI-P-DK
RJModem Development Kit			591-1014-ND	187.50	MTRJ-DK
EDGE Cellular Development Platform Kit			591-1154-ND ***NEW!***	649.92	MTCDP-E1-DK
Accessories					
CDMA and F2 Hinged Right Angle Antenna			591-1044-ND	7.60	ANCF2-10HRA
F1 Hinged Right Angle Antenna			591-1045-ND	7.60	ANF1-10HRA
Bluetooth Hinged Right Angle Reverse Polarity Antenna			591-1046-ND	18.45	ANBT-10HRA
SMA to MMCX COAX RF Cable 6 Inch			591-1047-ND	13.02	CASMA-MMCX-10
Antenna SMA Connector .8 Inch U.FL Cable			591-1139-ND ***NEW!***	5.52	CASMA-UFL-10
Reverse SMA to MMCX COAX RF Cable 6 Inch			591-1048-ND	13.02	CARSMA-MMCX-10
Antenna RP-SMA Connector 8 Inch U.FL Cable			591-1140-ND ***NEW!***	7.13	CARSMA-UFL-10
Antenna for GPRS Quad-Band			591-1069-ND	11.94	ANQB-50HRA
Mag Mount GPS Antenna, 5 Meter Cable			591-1150-ND ***NEW!***	26.86	ANGPS-10MM

Saw Filters

Specifications: • Nominal Input/Output Impedance: 50Ω

Dimensions in mm

Fig. 1 See data sheet for pin out

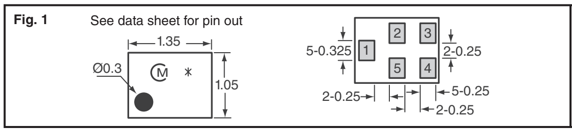

Fig. 2

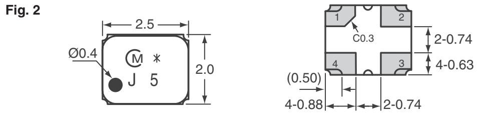

Pin Configuration	
1	Input
3	Output
2, 4	Ground

Fig.	Center Frequency (GHz)	Insertion Loss Typical (dB)	Ripple (dB)	Input Signal Level (mW)	Operating Temperature Range	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
1	2.450	1.7	0.4	—	-30°C ~ 85°C	490-5234-1-ND	2.12	1.77	1.59	490-5234-2-ND	4,000	618.00/M	SAFEA2G45AC0F00R14
	2.450	2.2	0.7	10	-30°C ~ 85°C	490-5235-1-ND	1.50	1.25	1.13	490-5235-2-ND	4,000	438.00/M	SAFEA2G45AB0F00R14
	2.450	2.0	0.7	10	-30°C ~ 85°C	490-5236-1-ND	1.50	1.25	1.13	490-5236-2-ND	4,000	438.00/M	SAFEA2G45FA0F00R14
	2.442	2.0	0.7	10	-30°C ~ 85°C	490-5237-1-ND	2.24	1.87	1.68	490-5237-2-ND	4,000	653.00/M	SAFEA2G44AA0F00R14
	2.345	2.2	0.6	10	-30°C ~ 85°C	490-5238-1-ND	1.60	1.34	1.20	490-5238-2-ND	4,000	466.00/M	SAFEA2G34FB0F00R14
	1.576	0.95	0.03	50	-30°C ~ 85°C	490-5016-1-ND	.98	.82	.74	490-5016-2-ND	2,000	287.00/M	SAFEB1G57KE0F00R12
	1.575	0.45	0.02	50	-30°C ~ 85°C	490-5017-1-ND	.98	.82	.74	490-5017-2-ND	2,000	287.00/M	SAFEB1G57KB0F00R12
	0.915	1.8	0.3	31.6	-30°C ~ 85°C	490-5019-1-ND	5.86	4.89	4.40	490-5019-2-ND	2,000	1710.00/M	SAFEB915MAL0F00R12
2	1.575	1.1	0.1	50	-40°C ~ 85°C	490-5018-1-ND	2.14	1.79	1.61	490-5018-2-ND	2,000	623.00/M	SAFSE1G57KA0T90R12

BandPass Filter

Specifications: • Operating Temperature Range: -40°C ~ 85°C
• Power Capacity: 500mW

Dimensions in mm

Fig. 1

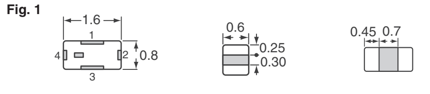

Fig. 2

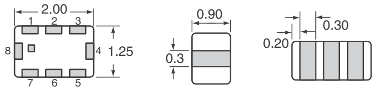

Fig. 3

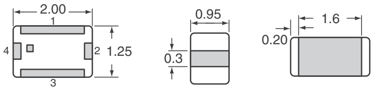

Fig.	Center Frequency (GHz)	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Ripple (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
1	2.45	2.4 ~ 2.5	1.8	0.7	490-4743-1-ND	.53	.44	.40	490-4743-2-ND	154.00/M	LFB182G45SG9B740
2	2.45	2.4 ~ 2.5	3.5	—	490-5020-1-ND	.59	.49	.45	490-5020-2-ND	171.00/M	LFB212G45BA1A220
3	2.45	2.4 ~ 2.5	1.5	0.5	490-5021-1-ND	.56	.47	.42	490-5021-2-ND	163.00/M	LFB212G45SG8A127
	2.45	2.4 ~ 2.5	2.6	1.8	490-5022-1-ND	.56	.47	.42	490-5022-2-ND	163.00/M	LFB212G45SG8A192

RF Balun Transformers

Chip type SMD baluns constructed with copper conductor and ceramic material. Ideal for high-frequency applications. Small-size and low-loss baluns can be customized for the balance impedance of 100Ω ~ 200Ω. **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Power Capacity: 0.5W

Dimensions in mm

Fig. 1

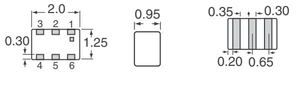

Fig. 2

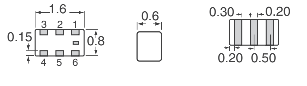

Fig.	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Balance Impedance Diff-Nom. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
1	2.3 ~ 2.5	1.0	200	490-4744-1-ND	.42	.35	.32	490-4744-2-ND	121.00/M	LDB212G4020C-001
	2.3 ~ 2.5	0.8	50	490-4745-1-ND	.42	.35	.32	490-4745-2-ND	121.00/M	LDB212G4005C-001
2	2.4 ~ 2.5	1.0	50	490-4746-1-ND	.39	.33	.30	490-4746-2-ND	114.00/M	LDB182G4505C-110
	2.4 ~ 2.5	1.0	100	490-5023-1-ND	.39	.33	.30	490-5023-2-ND	114.00/M	LDB182G4510C-110
	2.4 ~ 2.5	1.3	200	490-4747-1-ND	.39	.33	.30	490-4747-2-ND	114.00/M	LDB182G4520C-110

Micro-Module Bluetooth®

A highly integrated Bluetooth 1.2 compliant solution. The integrated baseband controller and 2.4GHz radio combine to form a complete, small form-factor (6.1mm x 9.1mm x 1.2mm) Bluetooth node. The baseband controller has a standard Host Controller Interface (HCI). The firmware supplied in the on-chip ROM supports a complete Bluetooth Link Manager and HCI with communication through a UART or USB interface. This firmware features point-to-point and point-to-multipoint link management, supporting data rates up to 723kbps. The radio has a heterodyne receiver architecture with a low intermediate frequency (IF), which enables the IF filters to be integrated on-chip. The transmitter uses direct IQ-modulation with Gaussian-filtered bit-stream data, a voltage controlled oscillator (VCO) buffer and a power amplifier.

LMX5453 Bluetooth 2.0 compliant solution **Features:** • eSCO • eSCO over USB HCI transport

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
LMX5453SMXCT-ND	20.38	17.28	15.95	LMX5453SMXTR-ND	2,500	11297.00/M

Bluetooth® Serial Port Modules

Digital Hardware: • Baseband and Link Management Processors • CompactRISC Core • Integrated Memory: Flash, RAM • UART Command/Data Port • Auxiliary Host Interface Ports • Advanced Power Management (APM) features • Advanced Audio Interface for external PCM codec

Firmware: Complete Bluetooth Stack including: • Baseband and Link Manager • L2CAP, RFCOMM, SDP • Profiles: GAP, SDAP, SPP

LMX9830: Bluetooth Serial Port Module is a highly integrated Bluetooth 2.0 baseband controller and 2.4GHz radio, combined to form a complete small form factor (6.1mm x 9.1mm x 1.2mm) Bluetooth node. All hardware and firmware is included to provide a complete solution from antenna through the complete lower and upper layers of the Bluetooth stack.

LMX9838: Bluetooth Serial Port Module is a fully integrated Bluetooth 2.0 baseband controller, 2.4GHz radio, crystal, antenna, LDO and discreets; combined to form a complete small form factor (10mm x 17mm x 2.0mm) Bluetooth node. All hardware and firmware is included to provide a complete solution from antenna through the complete lower and upper layers of the Bluetooth stack.

LMX9838DONGLE Kit: This kit includes everything necessary to evaluate all the features of the LMX9838 Bluetooth.

Kit Includes: • Complete RS232/UART evaluation board • Audio codec board • Power supply and cables • Simply Blue Commander software • Simply Blue Smart demo software • Full design documentation • Bluetooth USB dongle and software (additional Bluetooth device to connect to)

Digi-Key Part No.	Price Each 1	25	100	National Semiconductor Part No.
LMX9830SM-ND	15.69	13.20	12.13	LMX9830SM/NOPB
LMX9838SB-ND	32.00	27.20	25.20	LMX9838SB/NOPB
LMX9838DONGLE-ND	573.75	—	—	LMX9838DONGLE

National Semiconductor

PLL/Frequency Synthesizer

Digi-Reel®

PLL Type	Modulus	Operating Frequency (MHz)	Auxiliary Operating Frequency (MHz)	Normalized Phase Noise	Digi-Key Part No.	Cut Tape Price Each 1	25	100
RF/IF Dual	Integer	3,000	800	-219 dBc/Hz	LMX2430TM-ND‡◆	4.26	3.42	3.12
	Integer	3,600	1,700	-219 dBc/Hz	LMX2433SLEXCT-ND	5.37	4.39	3.94
	Integer	3,600	1,700	-219 dBc/Hz	LMX2433SLEXTR-ND§		5952.50/2,500	
Delta-Sigma RF/IF Dual	Fractional-N	7,500	3,000	-210 dBc/Hz	LMX2487ESQCT-ND◆	7.82	6.49	5.90
	Fractional-N	7,500	3,000	-210 dBc/Hz	LMX2487ESQTR-ND§◆		3983.00/1,000	
	Fractional-N	3,000	800	-209 dBc/Hz	LMX2485ESQCT-ND◆	7.41	6.06	5.44
	Fractional-N	3,000	800	-209 dBc/Hz	LMX2485ESQTR-ND§◆		3458.00/1,000	
	Fractional-N	3,000	800	-209 dBc/Hz	LMX2485SQCT-ND◆	6.69	5.47	4.91
	Fractional-N	3,000	800	-209 dBc/Hz	LMX2485SQTR-ND§◆		3122.00/1,000	
	Fractional-N	4,000	3,000	-209 dBc/Hz	LMX2486SQCT-ND◆	6.73	5.59	5.08
	Fractional-N	4,000	3,000	-209 dBc/Hz	LMX2486SQTR-ND§◆		3429.00/1,000	
	Fractional-N	6,000	3,000	-209 dBc/Hz	LMX2487SQCT-ND◆	7.26	6.03	5.48
	Fractional-N	6,000	3,000	-209 dBc/Hz	LMX2487SQTR-ND§◆		3699.00/1,000	

◆ ***RoHS Compliant*** ‡ Tube § Tape and Reel

PLL with VCO

Digi-Reel® RoHS COMPLIANT

Features: • PLL+VCO • Integrated Loop Filter • Integrated Tank Circuit • PLL: Delta-Sigma

Wireless Standard	Integrated VCOS	Frequency Range (MHz) Low Band	High Band	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
				Fractional-N						
3G,2G	1	749.5 ~ 755	1499 ~ 1510	LMX2531LQ1500ECT-ND	13.80	11.70	10.80	LMX2531LQ1500ETR-ND	250	2325.00
3G,2G	1	765 ~ 818	1530 ~ 1636	LMX2531LQ1570ECT-ND	13.80	11.70	10.80	LMX2531LQ1570ETR-ND	250	2325.00
3G,2G	1	795 ~ 850	1590 ~ 1700	LMX2531LQ1650ECT-ND	13.80	11.70	10.80	LMX2531LQ1650ETR-ND	250	2325.00
3G,2G	1	831~885	1662~1770	LMX2531LQ1700ECT-ND	13.80	11.70	10.80	LMX2531LQ1700ETR-ND	250	2325.00
3G,2G	1	880 ~ 933	1760 ~ 1866	LMX2531LQ1742CT-ND	13.80	11.70	10.80	LMX2531LQ1742TR-ND	250	2325.00
3G,2G	1	863 ~ 920	1726 ~ 1840	LMX2531LQ1778ECT-ND	13.80	11.70	10.80	LMX2531LQ1778ETR-ND	250	2325.00
3G,2G	1	917 ~ 1014	1834 ~ 2028	LMX2531LQ1910ECT-ND	13.80	11.70	10.80	LMX2531LQ1910ETR-ND	250	2325.00
3G,2G	1	952 ~ 1137	1904 ~ 2274	LMX2531LQ2080ECT-ND	10.93	9.27	8.55	LMX2531LQ2080ETR-ND	250	1840.75
3G,2G	1	1089 ~ 1200	2178 ~ 2400	LMX2531LQ2265ECT-ND	13.80	11.70	10.80	LMX2531LQ2265ETR-ND	250	2325.00
3G,2G	1	1168 ~ 1395	2336 ~ 2790	LMX2531LQ2570ECT-ND	13.80	11.70	10.80	LMX2531LQ2570ETR-ND	250	2325.00
3G,2G	1	533~592	1106~1184	LMX2531LQE1146ECT-ND	13.80	11.70	10.80	LMX2531LQE1146ETR-ND	250	2325.00
3G,2G	1	592~634	1184~1268	LMX2531LQE1226ECT-ND	13.80	11.70	10.80	LMX2531LQE1226ETR-ND	250	2325.00
3G,2G	1	634~680	1268~1360	LMX2531LQE1312ECT-ND	13.80	11.70	10.80	LMX2531LQE1312ETR-ND	250	2325.00
3G,2G	1	680~735	1360~1470	LMX2531LQE1415ECT-ND	13.80	11.70	10.80	LMX2531LQE1415ETR-ND	250	2325.00
3G,2G	1	725~790	1450~1580	LMX2531LQE1515ECT-ND	13.80	11.70	10.80	LMX2531LQE1515ETR-ND	250	2325.00
3G,2G	1	1355 ~ 1462	2710 ~ 2925	LMX2531LQE2820ECT-ND ***NEW!***	13.80	11.70	10.80	LMX2531LQE2820ETR-ND ***NEW!***	250	2325.00
3G,2G	1	1455 ~ 1566	2910 ~ 3132	LMX2531LQE3010ECT-ND ***NEW!***	13.80	11.70	10.80	LMX2531LQE3010ETR-ND ***NEW!***	250	2325.00
UMTS,LTE,WiMax	1	—	1990 ~ 2240	LMX2541SQE2060ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE2060ETR-ND ***NEW!***	250	3495.25
UMTS,LTE,WiMax	1	—	2200 ~ 2530	LMX2541SQE2380ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE2380ETR-ND ***NEW!***	250	3495.25
UMTS,LTE,WiMax	1	—	2490 ~ 2865	LMX2541SQE2690ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE2690ETR-ND ***NEW!***	250	3495.25
UMTS,LTE,WiMax	1	—	2810 ~ 3230	LMX2541SQE3030ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE3030ETR-ND ***NEW!***	250	3495.25
UMTS,LTE,WiMax	1	—	3130 ~ 3600	LMX2541SQE3320ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE3320ETR-ND ***NEW!***	250	3495.25
UMTS,LTE,WiMax	1	—	3480 ~ 4000	LMX2541SQE3740ECT-ND ***NEW!***	20.75	17.59	16.24	LMX2541SQE3740ETR-ND ***NEW!***	250	3495.25

NEW! **NAVMAN WIRELESS**

GPS Modules and Kits

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

Navman Wireless OEM designs and manufactures GPS modules and OEM solutions for a variety of applications, such as vehicle tracking, in-car navigation, security, people and pet tracking, as well as public safety and many more. Dedicated tracking and messaging terminals with flexible SDK's complement the state-of-the-art product portfolio.

Fig. 1

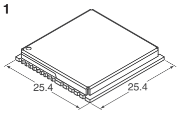

Fig. 2

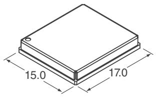

Fig. 3

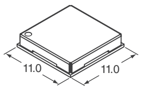

Fig. 4

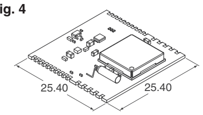

Fig.	Rx Channels	Power (mA)‡	Sensitivity	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Navman Wireless OEM Part No.
				GPS Modules							
—	20	17	-159dBm	943-1007-ND	54.00	49.00	39.00	—	—	—	AA003041-G
1	20	17	-159dBm	943-1008-1-ND†	39.00	34.00	29.00	943-1008-2-ND	250	6000.00	AA003051-G
2	20	17	-159dBm	943-1009-1-ND†	39.00	34.00	29.00	943-1009-2-ND	250	6000.00	AA003255-G
3	20	9	-159dBm	943-1010-1-ND†	39.00	34.00	29.00	943-1010-2-ND	500	12000.03	J3,0000,00,3.5
4	20	17	-159dBm	943-1011-1-ND†	39.00	34.00	29.00	943-1011-2-ND	360	8640.00	J3,3000,00,3.5
				Development Kits and Accessories							
Jupiter 30 xLP Development Kit				943-1000-ND	149.00	—	—	—	—	—	AA003053-G
Jupiter 32 xLP Development Kit				943-1001-ND	149.00	—	—	—	—	—	AA003257-G
MDT-860 Mobile Data Terminal				943-1002-ND	219.00	199.00	—	—	—	—	AAA002001-G
MDT-860 Development Kit				943-1003-ND	10.00	—	—	—	—	—	CB000054-G
Cube 3 Quadband GPRS Module with GPS				943-1004-ND	249.00	229.00	—	—	—	—	AAA004301-G
ANT06A Active GPS Antenna, 5M Cable				943-1005-ND	29.00	24.00	19.00	—	—	—	AT000047A-G
Jupiter 3-30 Development Kit				943-1006-ND	189.00	—	—	—	—	—	J3,30DK,00,3.5

‡ Using ATP (Adaptive Trickle Power) † Cut Tape

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Antennas

Dimensions in mm

Fig. 1

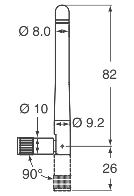

Fig. 2

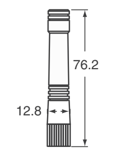

Fig. 3

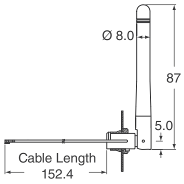

Fig. 4

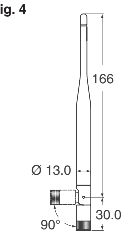

Fig. 5

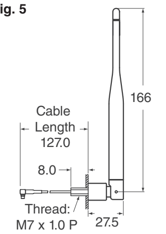

Fig. 6

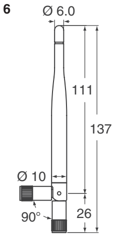

Fig. 7

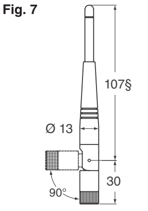

§ 152 for F145AM-3500S

Fig. 8

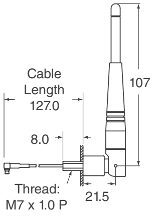

Fig. 9

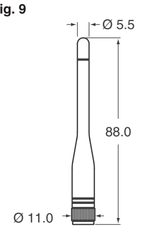

Fig. 10

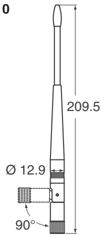

Fig. 11

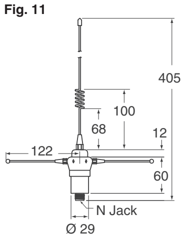

Fig. 12

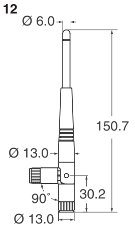

Fig. 13

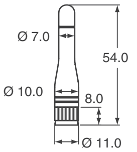

Fig. 14

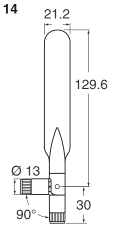

Fig. 15

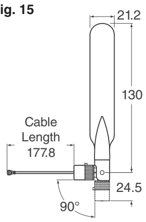

Fig. 16

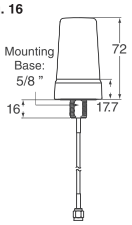

Fig. 17 ***NEW!***

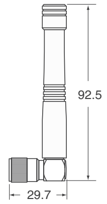

Fig. 18 ***NEW!***

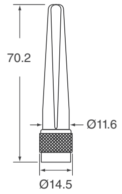

Fig. 19 ***NEW!***

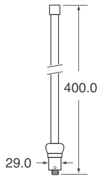

Fig. 20 ***NEW!***

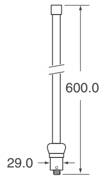

Fig. 21 ***NEW!***

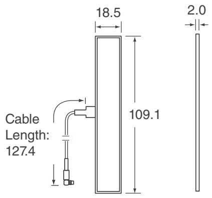

Fig. 22 ***NEW!***

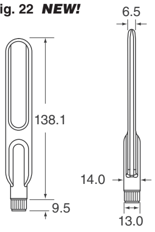

Fig. 23 ***NEW!***

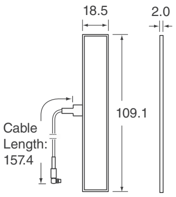

Fig. 24 ***NEW!***

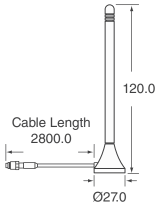

Fig. 25 ***NEW!***

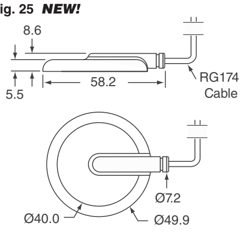

Fig. 26 ***NEW!***

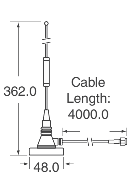

Fig. 27 ***NEW!***

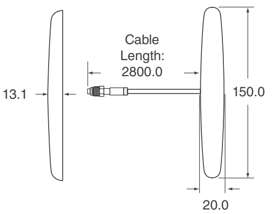

Fig.	Frequency Range (MHz)	Connector Type	Applications	Element Size	Nominal Imped-ance (Ω)	Digi-Key Part No.	Price Each	Nearson Part No.
1	824 ~ 896, 1850 ~ 1990	SMA	AMPS/PCS	1/2 Wave	50	730-1000-ND	18.00	D131AM-AMPS/PCS-S
1	2400 ~ 2500	RP SMA	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1003-ND	14.85	S131AH-2450S
1	2400 ~ 2500, 4900 ~ 5350, 5725 ~ 5850	RP SMA	WLAN/ISM	1/2 Wave	50	730-1013-ND	19.50	T131AH-2.4/4.9/5.X-S
2	310 ~ 320	SMA	VHF/UHF	1/4 Wave	50	730-1001-ND	16.50	L324AM-315
2	433 ~ 435	SMA	UHF	1/4 Wave	50	730-1002-ND	16.50	L324AM-434
2	890 ~ 960, 1710 ~ 1880, 1850 ~ 1990	SMA	GSM/DCS/PCS	1/4 Wave	50	730-1030-ND ***NEW!***	15.00	T324AM-GDP
3	2400 ~ 2500	U.FL	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1004-ND	17.82	S131CL-6-PX-2450S
4	2400 ~ 2500	RP SMA	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1005-ND	12.00	S151AH-2450S
5	2400 ~ 2500	MMCX	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1006-ND	24.45	S151FL-5-RMM-2450S
6	902 ~ 928	RP SMA	900MHz ISM	1/2 Wave	50	730-1007-ND	18.00	S152AH-915S
6	2400 ~ 2500	RP SMA	2.4GHz ISM, Bluetooth	1/2 Wave	50	730-1023-ND ***NEW!***	18.00	S152AH-2450S
7	2400 ~ 2500	RP SMA	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1008-ND	16.50	S181AH-2450S
7	3400 ~ 3600	SMA	WiMax	1/2 Wave	50	730-1021-ND ***NEW!***	24.00	F145AM-3500S
7	2150	SMA	WiMax	1/2 Wave	50	730-1022-ND ***NEW!***	24.00	O145AM-2150S
8	2400 ~ 2500	MMCX	2.4GHz ISM (ZigBee, WLAN, Bluetooth)	1/2 Wave	50	730-1009-ND	18.75	S181FL-5-RMM-2450S
9	902 ~ 928	RP SMA	900MHz ISM	1/4 Wave	50	730-1010-ND	15.00	S331AH-915
10	902 ~ 928	RP SMA	900MHz ISM	1/2 Wave	50	730-1011-ND	24.00	S467AH-915S
11	902 ~ 928	N Type	900MHz ISM	1/2 Wave	50	730-1012-ND	52.00	SG101N-915
12	2400 ~ 2500, 4900 ~ 5350, 5725 ~ 5850	RP TNC	WLAN/ISM	1/2 Wave	50	730-1014-ND	23.94	T145TR-2.4/4.9/5.X-S
13	860 ~ 960, 1710 ~ 1810, 1850 ~ 1990	SMA	GSM/DCS/ PCS	1/4 Wave	50	730-1015-ND	15.00	T321AM-GDP
14	824 ~ 896, 890 ~ 960, 1850 ~ 1990, 1710 ~ 1880, 1920 ~ 2170	SMA	AMPS/GSM/DCS/PCS/UMTS	1/2 Wave	50	730-1016-ND	23.85	T6140AM-AGDPU-S
14	2400 ~ 2500, 4900 ~ 5350, 5725 ~ 5850	RP TNC	WLAN/ISM	1/2 Wave	50	730-1018-ND	25.50	T614TR-2.4/4.9/5.X-S
15	2400 ~ 2500, 5150 ~ 5850	U.FL	WLAN/ISM	1/2 Wave	50	730-1017-ND	28.26	T614FC-7-PX-2.4/4.9/5.X-S
16	915	RP SMA	900MHz ISM	1/2 Wave	50	730-1025-ND ***NEW!***	38.00	S765FL-120-AH-915
16	915	N Type	900MHz ISM	1/2 Wave	50	730-1026-ND ***NEW!***	36.00	S765N-915
16	824 ~ 960, 1710 ~ 2170	RP SMA	AMPS/GSM/DCS/PCS	1/2 Wave	50	730-1020-ND	38.00	W765FL-120-AH-AGDP
16	824 ~ 960, 1710 ~ 2170	SMA	AMPS/GSM/DCS/PCS	1/2 Wave	50	730-1039-ND ***NEW!***	38.00	W765FL-12-AM-AGDP
16	824 ~ 960, 1710 ~ 2170	SMA	AMPS/GSM/DCS/PCS	1/2 Wave	50	730-1040-ND ***NEW!***	38.00	W765FL-36-AM-AGDP
17	890 ~ 960, 1710 ~ 1880, 1850 ~ 1990	SMA	GSM/DCS/PCS	1/4 Wave	50	730-1031-ND ***NEW!***	16.50	T324AM-GDP-R
18	902 ~ 928	TNC	900MHz ISM	1/4 Wave	50	730-1024-ND ***NEW!***	15.00	S325TC-915
19	2400 ~ 2500	N Type	2.4GHz ISM, Bluetooth, WLAN	1/2 Wave	50	730-1027-ND ***NEW!***	58.00	SG102N-2450
20	2400 ~ 2500	N Type	2.4GHz ISM, Bluetooth, WLAN	1/2 Wave	50	730-1028-ND ***NEW!***	72.00	SG103N-2450
21	902 ~ 928	MMCX	900MHz ISM	1/2 Wave	50	730-1029-ND ***NEW!***	18.00	SPCB00790-5-RMM-915L
22	824 ~ 896, 890 ~ 960, 1850 ~ 1990, 1710 ~ 1880, 1920 ~ 2170	SMA	AMPS/GSM/DCS/PCS/UMTS	1/2 Wave	50	730-1032-ND ***NEW!***	25.50	T6150AM-AGDPU
23	824 ~ 896, 890 ~ 960, 1710 ~ 1850, 1850 ~ 1990	MMCX	AMPS/GSM/DCS/PCS	1/2 Wave	50	730-1034-ND ***NEW!***	18.00	TPCB02593-6-RMM-AGDP-L
24	824 ~ 960, 1850 ~ 1990	SMA	AMPS/PCS	1/2 Wave	50	730-1035-ND ***NEW!***	18.00	W122M1-110-AM-AMPS/PCS
25	824 ~ 960, 1710 ~ 2170	SMA	AMPS/GSM/DCS/PCS/UMTS	1/2 Wave	50	730-1036-ND ***NEW!***	22.50	W350DT-110-AM-AGDPU
26	824 ~ 896, 1850 ~ 1990	SMA	AMPS/PCS	1/2 Wave	50	730-1037-ND ***NEW!***	23.00	W522M2-157-AM-AMPS/PCS
27	824 ~ 960, 1710 ~ 1990	SMA	AMPS/GSM/DCS/PCS	1/2 Wave	50	730-1038-ND ***NEW!***	22.50	W601DT-110-AM-AGDP

Fig. 1

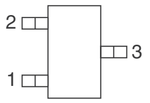

Fig. 2

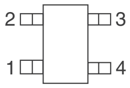

Fig. 3

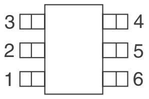

Fig. 4

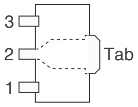

Fig. 5

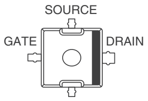

Fig. 6

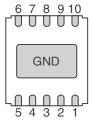

Fig. 7

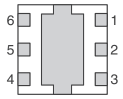

Fig. 8

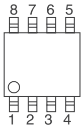

Fig. 9 ***NEW!***

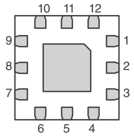

Low Noise Bipolar Transistors

Fig.	Package	Test f (GHz)	NF Typ. (dB)	GA Typ. (dB)	VCE (V)	S21E2 IC (mA)	Typ. (dB)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
												1	10	100		
1	SMT	1.0	1.4	12.5	3	7	9	4.5	120	100	NE85619-ACT-ND◆†	.88	7.60	60.00	NE85619-ATR-ND◆	290.00/M
	SMT	1.0	1.4	14	8	20	14	7.0	120	65	NE68119-ACT-ND◆†	1.06	9.52	75.60	NE68119-ATR-ND◆	392.00/M
	SMT	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68719CT-ND†	.75	6.25	52.78	—	—
	SMT	2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519-ACT-ND◆†	.79	6.84	54.00	NE68519-ATR-ND◆	261.00/M
	SMT	2.0	1.5	8	3	20	8	9.5	120	100	NE68819-ACT-ND◆†	.72	5.72	42.90	NE68819-ATR-ND◆	202.00/M
	SMT	2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019-ACT-ND◆†	1.06	9.12	72.00	NE68019-ATR-ND◆	348.00/M
	SOT-23	1.0	1.2	13	8	20	11	9.0	100	65	NE68133-A-ND◆	1.26	11.16	88.20	—	—
	SOT-23	1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633B-ACT-ND◆†	1.06	9.12	72.00	NE85633B-ATR-ND◆	348.00/M
	SOT-23	2.0	1.7	9	6	10	8	10.0	100	35	NE68033-A-ND◆	1.40	12.40	98.00	—	—
	SOT-323	1.0	1.3	12	10	20	12	4.5	110	100	NE85630-ACT-ND◆†	1.06	9.12	72.00	NE85630-ATR-ND◆	348.00/M
	SOT-323	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68730CT-ND†	1.05	8.75	73.89	—	—
	SOT-323	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530-ACT-ND◆†	.84	7.00	59.11	—	—
	SOT-323	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030CT-ND†	.88	7.92	62.86	—	—
	M13	3.0	1.4	—	1	20	13	20.0	80	35	NE894M13-A-ND◆	1.09	9.61	75.95	—	—
2	SOT-143	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139-ACT-ND◆†	.90	7.50	63.33	—	—
	SOT-143R	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139RCT-ND◊†	.75	6.25	52.78	NE68139RTR-ND◊	417.00/M
	SOT-143R	2.0	1.7	11	6	10	9	10.0	100	35	NE68039RCT-ND◊†	.96	8.58	68.13	NE68039RTR-ND◊	517.00/M
	SOT-143R	2.0	1.7	11	6	10	9	10.0	100	35	NE68039R-ACT-ND◊◆†	1.14	10.20	81.00	NE68039R-ATR-ND◊◆	420.00/M
	SOT-343	2.0	0.9	18	3	10	23	25.0	190	35	NESG2021M05-A-ND◆	1.44	12.71	100.45	—	—
	SOT-343	2.0	1.1	16	2	20	20	25.0	70	35	NE662M04-A-ND◆	1.02	8.99	71.05	—	—
	SOT-343	5.2	0.95	10	2	6	14	—	300	35	NESG3031M05-A-ND◆	1.61	14.26	112.70	—	—
3	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01CT-ND†	.83	6.88	58.06	NE696M01TR-ND	467.00/M
	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01-ACT-ND◆†	.84	7.00	59.11	—	—
Evaluation Board for NE662M04-A-ND, 900MHz											NE662M04-EVGA09-ND	122.00	—	—	—	—
PNP — RoHS Compliant																
1	SOT-23	1.0	1.5	10	-8	-20	12	8.5	40	-50	NE97733-A-ND	5.40	48.25	395.65	—	—
	SOT-23	1.0	2.0	7	-10	-15	10	5.5	40	-50	NE97833-A-ND	3.04	27.44	220.50	—	—
Dual Package																
3	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810TCT-ND†	1.02	8.53	71.99	—	—
	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810T-ACT-ND◆†	1.33	11.90	94.50	UPA810T-ATR-ND◆	490.00/M
	SOT-363	2.0	1.5	—	3	7	5	9.0	120	100	UPA814TCT-ND†	1.17	9.75	82.33	UPA814TTR-ND	678.00/M
	SOT-363	2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800T-ACT-ND◆†	1.56	13.94	110.70	UPA800T-ATR-ND◆	574.00/M
	6-Mini	12.0	1.3	9	1	10	9	12.0	110	30	UPA863TD-A-ND◆	1.58	14.28	114.75	—	—

◊ Reverse Pinout ◆ ***RoHS Compliant*** † Cut Tape

Medium Power Bipolar Transistors

RoHS COMPLIANT

Fig.	Package	Test				P1dB Typ. (dBM)	Typ. (GHz)	fT HFE Typ.	IC Max. (mA)	Digi-Key Part No.	Pricing		
		f (GHz)	VCE (V)	IC (mA)	Pin (dBM)						1	10	100
2	SOT-343	1.8	3.6	200	15	26	20	60	500	NE664M04-A-ND	1.95	17.64	141.75
	SOT-343	1.8	2.8	40	7	18	12	120	100	NE678M04-A-ND	.98	8.68	68.60
	SOT-343	2.0	3.6	10	7	21	—	190	100	NESG2101M05-A-ND	1.72	15.19	120.05
4	SOT-89	0.46	6.0	30	15	30	10	120	600	NESG260234-AZ-ND	1.64	14.84	119.25
	SOT-89	1.0	12.5	100	19	27.5	5.5	120	250	NE461M02-AZ-ND	2.51	22.68	182.25
	SOT-89	1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134-AZCT-ND†	1.86	15.90	129.85
	SOT-89	1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134-AZTR-ND‡		769.00/1,000	
	SOT-89	1.0	10	40	13	22	6.5	120	100	NE85634-ACT-ND†	1.10	9.86	78.30
	SOT-89	1.0	10	40	13	22	6.5	120	100	NE85634-ATR-ND‡		435.00/1,000	
	SOT-89	0.9	6.0	30	20	31.5	15	120	750	NESG270034-T1-AZCT-ND†	1.56	13.94	110.70
	SOT-89	0.9	6.0	30	20	31.5	15	120	750	NESG270034-T1-AZTR-ND‡		615.00/1,000	

† Cut Tape ‡ Tape and Reel

General Purpose GaAs FETs

RoHS COMPLIANT

Fig.	Package	Gate Length (um)	Gate Width (um)	Frequency Range (GHz)	Test f (GHz)	NF/GA Bias		NF (dB)	GA (dB)	P1dB (dBm)	Digi-Key Part No.	Pricing		
						VDS (V)	IDS (mA)					1	10	100
2	Super Mini-Mold	0.6	500	0.1 ~ 6	2.0	2	10	0.45	14	15	NE3508M04-A-ND	1.74	15.68	126.00
	Super Mini-Mold	0.6	400	0.1 ~ 6	2.0	2	10	0.4	17.5	11	NE3509M04-A-ND	1.74	15.68	126.00
	Super Mini-Mold	0.6	280	0.1 ~ 6	4.0	2	15	0.45	16	11	NE3510M04-A-ND	1.80	16.24	130.50
5	S02	0.2	160	4 ~ 18	12.0	2	10	0.3	13.5	—	NE3512S02-A-ND	2.14	19.32	155.25
	S02	0.2	160	4 ~ 18	12.0	2	10	0.35	13.5	—	NE3514S02-A-ND	2.54	22.96	184.50

(Continued)

SPDT Dual Control Switches

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
3	6-Super Mini-Mold	2.6/0	0.40 @ 2GHz	19	UPG2155TB-A-ND	1.74	15.68	126.00

Switches

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Input Power @ 0.1dB (dBm)	Input Power @ 1dB (dBm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
SPDT Single Control Switches										
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	33	33	UPG2010TB-A-ND	2.48	22.40	180.00
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	20.5	24	UPG2012TB-A-ND	1.58	13.95	110.25
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	27	27	30	UPG2015TB-A-ND	1.55	14.00	112.50
	6 Mini-Mold	2.8/0	0.3 @ 2GHz	30	20.5	24	UPG2012TK-A-ND	1.54	13.64	107.80
	6-Mini-Mold	2.8/0	0.8 @ 2GHz	25	17	21	UPD5713TK-A-ND	.80	7.00	54.00
	6 Mini-Mold	2.8/0	0.8 @ 2GHz	25	17	21	UPD5713TK-E2-ACT-ND†	.73	6.27	49.50
	6 Mini-Mold	2.8/0	0.8 @ 2GHz	25	17	21	UPD5713TK-E2-ATR-ND‡		1115.00/5,000	
Evaluation Board for UPD5713TK-E2-ATR-ND							UPD5713TK-EVAL-A-ND	122.00	—	—
SPDT Dual Control Switches										
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	34	36	UPG2009TB-E3-ACT-ND†	1.82	15.60	127.40
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	34	36	UPG2009TB-E3-ATR-ND‡		2106.00/3,000	
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	29	32	UPG2179TB-A-ND	1.54	13.64	107.80
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TB-A-ND	1.09	9.61	75.95
	6 Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TK-A-ND	1.37	12.09	95.55
Multi-Throw Switches										
6	10-TSON	2.8/0	0.55 @ 2GHz	21	33	34	UPG2031TQ-A-ND	3.33	29.75	243.95
Broadband Switches to 6GHz										
7	6-TSON	3.0/0	0.4 @ 2.5GHz, 0.5 @ 6GHz	35 @ 2.5GHz, 0.5 @ 6GHz	—	35 @ 2.5GHz, 29 @ 6GHz	UPG2163T5N-A-ND	1.58	13.95	110.25

† Cut Tape ‡ Tape and Reel

Frequency Down Converters

Fig.	Package	RF Input Frequency Range Typical (MHz)	IF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
3	SOT-363	100 ~ 2,000	0 ~ 300	3	6.0	14.0	UPC2756TB-A-ND	3.14	28.00	229.60
	SOT-363	100 ~ 2,000	20 ~ 300	3	5.6	13.0	UPC2757TB-A-ND	2.73	24.64	198.00
	SOT-363	100 ~ 2,000	20 ~ 300	3	11.0	17.0	UPC2758TB-A-ND	2.73	24.64	198.00

Frequency Up Converters

Fig.	Package	IF Input Frequency Range Typical (MHz)	RF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
3	6-Super Mini-Mold	50 ~ 400	800 ~ 2,500	3.0	9.0	8.5	UPC8172TB-A-ND	2.29	20.72	166.50

Silicon LD Mosfets

Fig.	Pout Typical (dBm)	Linear Gain Typical (dB)	Test Frequency (GHz)	Pin (dBm)	VDS (V)	ID Typical (A)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
5	32.0	10	1.8	25	3.2	0.8	NE5520279A-A-ND	8.93	80.33	660.45
	35.5	16	0.915	25	3.2	1.0	NE5520379A-A-ND	8.53	76.73	630.85
	40.0	15	0.9	27	7.5	2.75	NE5511279A-A-ND	12.34	112.20	953.70

Silicon MMIC Prescalers

Fig.	Package	fin (GHz) Min.	fin (GHz) Max.	Pin (dBm) Min.	Pin (dBm) Max.	Vcc (V)	Icc Typ. (mA)	Divide Ratio	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 1,000
8	8-SSOP	0.5	1	-20	-5	3	5	2/4/8	UPB1509GV-ACT-ND	3.15	28.35	231.00	UPB1509GV-ATR-ND	1470.00
	8-SSOP	0.5	3	-10	+6	5	10	2	UPB1508GV-ACT-ND	3.15	28.35	231.00	UPB1508GV-ATR-ND	1470.00
	8-SSOP	0.5	3	-15	+6	5	19	64/128/256	UPB1507GV-ACT-ND	3.15	27.00	220.50	UPB1507GV-ATR-ND	1305.00

Amplifiers

Fig.	Package	f Typ. @ 3dB Down (MHz)	Vcc (V)	Icc Typ. (mA)	NF Typ. (dB)	Gain Typ. (dB)	RLin Typ. (dB)	RLout Typ. (dB)	P1dB Typ. (dBm)	ISOL Typ. (dB)	Digi-Key Part No.	Prcing 1	Prcing 10	Prcing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
3	SOT-363	1,000	5	22.0	3.5	33	6	12	7.5	39	UPC2710TB-A-ND◆	1.44	12.71	100.45	—	—	—
	SOT-363	1,500	3	6.0	2.8	19	11.5	8.5	-8.5	40	UPC2748TB-A-ND◆	1.65	14.57	115.15	—	—	—
	SOT-363	1,500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TB-ACT-ND◆†	1.56	13.94	110.70	UPC2746TB-ATR-ND◆	3,000	574.00/M
	SOT-363	2,300	5	25.0	5.0	23	10	10	8.7	31	UPC2709TB-A-ND◆	1.44	12.71	100.45	—	—	—
	SOT-363	2,400	3	27	5.5	20	12	9	6.5	29	UPC2763TB-ACT-ND◆†	1.48	13.26	105.30	UPC2763TB-ATR-ND◆	3,000	546.00/M
	SOT-363	2,400	3	36	6.0	21	14	10	11.5	30	UPC2771TB-ACT-ND◆†	1.48	13.26	105.30	UPC2771TB-ATR-ND◆	3,000	546.00/M
	SOT-363	2,600	5	12	4.5	20	12	13	-0.4	33	UPC2712TB-ACT-ND◆†	1.33	11.90	94.50	UPC2712TB-ATR-ND◆	3,000	490.00/M
	SOT-363	2,700	3	7.5	6.0	12	11	5.5	-3.0	33	UPC2745TB-ACT-ND◆†	1.22	10.88	86.40	UPC2745TB-ATR-ND◆	3,000	448.00/M
	SOT-363	2,700	5	25	6.0	23	7.5	20	6	32	UPC2776TBCT-ND†	1.02	8.53	71.99	UPC2776TBTR-ND	3,000	583.00/M

◊ Reverse Pinout ◆ ***RoHS Compliant*** † Cut Tape

(Continued)

Amplifiers *(Cont.)*

Fig.	Package	f Typ. @ 3dB Down (MHz)	Vcc (V)	Icc Typ. (mA)	NF Typ. (dB)	Gain Typ. (dB)	RLin Typ. (dB)	RLout Typ. (dB)	P1dB Typ. (dBm)	ISOL Typ. (dB)	Digi-Key Part No.	Prcing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
3	SOT-363	2,700	5	25	6.0	23	7.5	20	6	32	UPC2776TB-ACT-ND◆†	1.05	8.75	73.89	—	—	—
	SOT-363	2,900	3	6.0	4.0	16	10	12.5	-12.5	30	UPC2749TB-A-ND◆	1.54	13.64	107.80	—	—	—
	SOT-363	2,900	3	27	6.5	14.5	8.5	12	7	25	UPC2762TB-ACT-ND◆†	1.17	9.75	82.33	—	—	—
	SOT-363	2,900	5	12	5.0	13	25	12	-2.6	30	UPC2711TB-ACT-ND◆†	1.33	11.90	94.50	UPC2711TB-ATR-ND◆	3,000	490.00/M
	SOT-363	2,900	5	26.0	6.5	15	11	20	7.5	23	UPC2708TB-A-ND◆	1.44	12.71	100.45	—	—	—
	6-Super Mini-Mold	2,800	5	24.5	3.7	32.5	8.5	10.5	9.0	41	UPC3225TB-A-ND◆	2.26	20.44	164.25	—	—	—
		2,900	5	14.0	2.3	20.5	15	9.5	-1.5	44	UPC3215TB-A-ND◆	2.05	18.48	148.50	—	—	—
		3,200	5	9.0	4.3	21.5	12	17	-3.5	40	UPC3224TB-A-ND◆	1.16	10.23	80.85	—	—	—
		3,200	5	15.5	5.3	25	14	13	7.5	34	UPC3226TB-A-ND◆	1.30	11.47	90.65	—	—	—
		3,200	5	26.0	4.0	32.8	9.5/13	10/14.5	11	41	UPC3232TB-E3-ACT-ND◆†	.93	7.75	65.44	—	—	—
		4,000	3	23.0	4.5	21	10.5	10	7.0	32	UPC8181TB-A-ND◆	1.61	14.56	117.00	—	—	—
	6 Mini-Mold	1,000	2.8	5	1.4	15.3	9.5	14	-5.5	22	UPC3237TK-A-ND◊◆	1.95	17.64	141.75	—	—	—
	6 Mini-Mold	3,000	3	3.5	1.3	18.5	-7.5	-14.5	-4.0	-32.5	UPC8211TK-A-ND◆	1.54	13.64	107.80	—	—	—
8	8-SSOP	1,900	5	49	6.0	23	14	4	15.9	35	UPC1678GV-ACT-ND◆†	2.91	24.90	203.35	UPC1678GV-ATR-ND◆	1,000	1204.00

◊ Reverse Pinout ◆ ***RoHS Compliant*** † Cut Tape

AGC Amplifier

RoHS COMPLIANT

Fig.	Package	Typical Frequency Range @ 3dB Down (MHz)	Vcc (V)	Icc Typical (mA)	NF (dB)	Gain Typical (dBm)	AGC (dB)	Digi-Key Part No.	Pricing 1	10	100
3	6 Mini-Mold	2,500	3	11.5	7.5	14	40	UPC8204TK-A-ND	3.39	30.25	248.05
	6 Mini-Mold	1,575	3	3.8	0.8	20	20	UPC8231TK-A-ND	1.54	13.64	107.80
	6 Mini-Mold	1,575	2.7	3.5	0.9	20	20	UPC8233TK-A-ND	1.72	15.19	120.05
7	6-TSON	1,575	3	3	0.95	17	17	UPC8232T5N-A-ND	1.54	13.64	107.80
	6-TSON	1,575	2.7	6.5	0.8	19.5	19.5	UPC8236T6N-A-ND	1.58	14.28	114.75

GaAs Power Amplifiers

RoHS COMPLIANT

Fig.	Package	Overall Frequency Range (MHz)	Test Conditions	Output Power (dBm)	Power Added Efficiency (%)	Digi-Key Part No.	Pricing 1	10	100
—	20-QFN	800 ~ 2,500	F=1.8GHz, VD=3V	31.5	42	UPG2118K-A-ND	9.53	85.73	704.85
7	6-TSON	2,400 ~ 2,500	F=2.45GHz, VCC=3V	25	58	UPG2250T5N-E2-ACT-ND†	3.45	31.05	253.00
	6-TSON	2,400 ~ 2,500	F=2.45GHz, VCC=3V	25	58	UPG2250T5N-E2-ATR-ND‡		3363.00/3,000	
	6-TSON	2,400 ~ 2,500	F=2.45GHz, VCC=1.8V	25	55	UPG2250T5N-A-ND	4.26	38.00	311.60
	6-TSON	2,400 ~ 2,500	F=2.45GHz, VCC=3V	20.0	45	UPG2314T5N-E2-ACT-ND†	3.45	31.05	253.00
	6-TSON	2,400 ~ 2,500	F=2.45GHz, VCC=3V	20.0	45	UPG2314T5N-E2-ATR-ND‡		2592.00/3,000	
9	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3V	25.0	47	UPG2251T6M-A-ND ***NEW!***	4.31	38.50	315.70
	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3V	25.0	47	UPG2251T6M-E2-ACT-ND† ***NEW!***	3.51	31.59	257.40
	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3V	25.0	47	UPG2251T6M-E2-ATR-ND‡ ***NEW!***		3039.00/3,000	
	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3.3V	23.0	50	UPG2301T5L-A-ND ***NEW!***	3.78	33.75	276.75
	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3.3V	23.0	50	UPG2301T5L-E2-ACT-ND† ***NEW!***	3.51	31.59	257.40
	12-TSQFN	2,400 ~ 2,500	F=2.45GHz, VDD=3.3V	23.0	50	UPG2301T5L-E2-ATR-ND‡ ***NEW!***		3039.00/3,000	

† Cut Tape ‡ Tape and Reel

CEL California Eastern Laboratories ZigBee® / 802.15.4 Radio Modules

RoHS COMPLIANT

CEL modules provide a fully integrated, easy-to-use solution for your ZigBee® and 802.15.4 networks. Ideal for remote sensing, AMR/AMI, home and building automation, and security applications, they feature low power consumption, long range and integrated antennas. FCC, CE and IC certified, CEL modules are the result of years of product development experience. They combine industry-leading transceiver ICs with high performance NEC Power Amplifiers, RFIC switches and other high-end components.

Features: • Data Rate: 250kbps

Module	MeshConnect™	MeshConnect™ Extended Range	FreeStar Pro	FreeStar	Apex	Apex LT	Matrix 10mW	Matrix 100mW
Transceiver Chipset	MeshConnect™ ZIC2410P0 8-bit, 8051	MeshConnect™ ZIC2410P2 8-bit, 8051	Freescale™ MC13224 32-bit, ARM7	Freescale™ MC13192 8-bit, HCS08	Ember™ EM250 16-bit, XAP2b	Ember™ EM260 Network processor	TI™ CC2430 8-bit, 8051	TI™ CC2430 8-bit, 8051
Fmax	16MHz	16MHz	32MHz	40MHz	12MHz	n/a	32MHz	32MHz
Inputs/Outputs	22	22	46	8	17	n/a	17	17
Network	Mesh, Point-to-Point Point-to-Multipoint	Mesh, Point-to-Point Point-to-Multipoint	Mesh, Point-to-Point Point-to-Multipoint	Mesh, Point-to-Point Point-to-Multipoint	Mesh	Mesh	Mesh, Point-to-Point Point-to-Multipoint	Mesh, Point-to-Point Point-to-Multipoint
Software/ ZigBee Stack	MAC, S-MAC, SNAP ZigBee®	MAC, S-MAC, SNAP ZigBee®	Freescale BeeStack™ (ZigBee PRO, MAC, SMAC)	LSR STAR Protocol BeeStack	Znet Pro® 3.1 (ZigBee Pro Certified)	Znet Pro® 3.1 (ZigBee Pro Certified)	LSR STAR Protocol Z-Stack™	LSR STAR Protocol Z-Stack™
Tx Power Output	+6dBm	+20dBm	+20dBm	+20dBm	+20dBm	+20dBm	+10dBm	+20dBm
Rx Sensitivity	-97dBm	-103.5dBm	-96dBm	-92dBm	-97dBm	-97dBm	-92dBm	-92dBm
Range	3000+ ft	12,000 ft	4000+ ft	4000 ft	4000+ ft	4000+ ft	2000 ft	4000 ft
Vcc	2.1V ~ 3.3V	2.1V ~ 3.3V	2.0V ~ 3.6V	2.4V ~ 3.6V	2.1V ~ 3.6V	2.1V ~ 3.6V	2.1V ~ 3.6V	2.1V ~ 3.6V
Rx Current	35mA	38mA	30mA	42mA	37mA	37mA	27mA	27mA
Tx Current	44mA	175mA	193mA	150mA	170mA	170mA	50mA	130mA
Standby Current	<1.0μA	<4.0μA	1.1μA	5μA	5μA	5μA	5μA	5μA
Dimensions	25.4mm x 34.3mm	25.4mm x 34.3mm	25mm x 36mm	25mm x 36mm	25mm x 33mm	25mm x 33mm	23mm x 29mm	23mm x 31mm

Description	Digi-Key Part No.	Price Each
ZigBee Modules		
MeshConnect™ with PCB Antenna	ZICM2410P0-1-ND	19.00
MeshConnect with Connector	ZICM2410P0-1C-ND	20.50
MeshConnect Module	ZICM2410P0-1-SN-ND ***NEW!***	19.50
MeshConnect Module	ZICM2410P0-1C-SN-ND ***NEW!***	20.50
MeshConnect Extended Range Module	ZICM2410P2-1-ND ***NEW!***	20.50
MeshConnect Extended Range Module	ZICM2410P2-1-SN-ND ***NEW!***	22.00
MeshConnect Extended Range Module	ZICM2410P2-1C-ND ***NEW!***	22.00
MeshConnect Extended Range Module	ZICM2410P2-1C-SN-ND ***NEW!***	23.50
MeshConnect ISP/WNA	ZIC2410USB-WNA-1-ND ***NEW!***	50.00
FreeStar Pro with PCB Antenna	ZFSM-201-1-ND	27.00
FreeStar Pro with Connector	ZFSM-201-1C-ND	32.00
FreeStar	ZFSM-101-1-ND	28.00

Description	Digi-Key Part No.	Price Each
Apex with PCB Antenna	ZAXM-201-1-ND	27.00
Apex with Connector	ZAXM-201-1C-ND	32.00
Apex LT	ZALM-301-1-ND	24.00
Matrix 10mW with PCB Antenna	ZMXM-400-1-ND	24.00
Matrix 100mW with PCB Antenna	ZMXM-401-1-ND	29.00
Matrix 100mW with Connector	ZMXM-401-1C-ND	34.00
Evaluation Kits		
Evaluation Kit for Apex Module	ZAXM-201-KIT-1-ND	395.00
Evaluation Kit for Matrix Module	ZMXM-400-KIT-2-ND	395.00
Evaluation Kit for ZIC2410	ZICM2410P0-KIT2-1-ND	468.75
Evaluation Kit for ZICM2410P2	ZICM2410P2-KIT1-1-ND ***NEW!***	200.00
ICs		
ZIC2410 MeshConnect™ IC/48QFN	ZIC2410QN48-ND	6.00

HV, VHF, and UHF Power Transistors

Fig. 1 – SOT-800A and SOT-979A

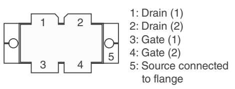

Fig. 2 – SOT-540A and SOT-539A

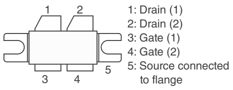

Fig. 3 – SOT-467C

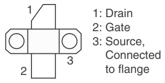

Fig. 4 – SOT-538A

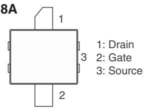

Fig. 5 – SOT-262A1

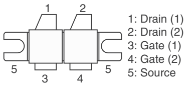

Fig. 6 – SOT-171A

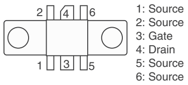

Fig. 7 – SOT-121B and SOT-123A

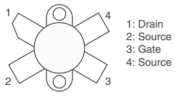

Fig. 8 – SOT-279A

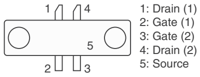

Fig. 9 – SOT-409A

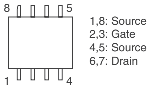

Fig. 10 – SOT-502A

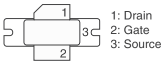

Fig. 11 – SOT-502B, SOT-896B and SOT-467B

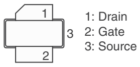

Fig. 12 – SOT-365C

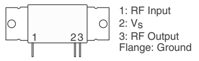

Fig.	f (MHz)	PL (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
							UHF LDMOS				
1	470 ~ 860	250	32	16	55	SOT-800A	568-2408-ND	240.39	220.50	215.53	BLF872,112
	470 ~ 860	300	42	21	46	SOT-979A	568-4738-ND	220.99	202.71	198.14	BLF878,112
	470 ~ 860	500	50	19	46	SOT-979A	568-5102-5-ND ***NEW!***	270.11	247.76	242.17	BLF888,112
2	470 ~ 860	150	32	15	55	SOT-540A	568-2407-ND	147.33	135.15	132.10	BLF861A,112
3	0 ~ 2000	30	26	>10	>30	SOT-467C	568-2387-ND	69.01	61.47	61.18	BLF2045,112
	0 ~ 1000	100	40	21	47	SOT-467C	568-4737-ND	129.14	116.44	112.63	BLF871,112
4	0 ~ 960	10	26	>16	>45	SOT-538A	568-2409-ND	41.57	35.96	33.71	BLF1043,112
							UHF VDMOS				
6	500	5	28	16.5	60	SOT-171A	568-2417-ND	38.83	33.59	31.49	BLF542,112
							VHF LDMOS				
2	600	150	32	16	55	SOT-540A	568-2419-ND	171.90	157.68	154.12	BLF647,112
	10 ~ 500	500	50	26.5	70	SOT-539A	568-4736-ND	196.45	180.19	176.13	BLF574,112
3	10 ~ 500	20	50	27.5	70	SOT-467C	568-4735-ND	69.86	62.46	59.28	BLF571,112
							VHF VDMOS				
5	225	300	32	13.5	62	SOT-262A1	568-2390-ND	220.99	202.71	198.14	BLF368,112
	225	250	50	16	55	SOT-262A1	568-2412-ND	160.99	147.67	144.34	BLF278,112
	225	300	28	13	67	SOT-262A1	568-2389-ND	220.99	202.71	198.14	BLF248,112
7	28 ~ 108	150	50	19	70	SOT-121B	568-2386-ND	72.65	64.95	61.65	BLF177,112
	28 ~ 108	150	28	18	70	SOT-121B	568-2385-ND	108.38	96.53	91.45	BLF147,112
	175	30	28	15.5	65	SOT-123A	568-2402-ND	45.75	39.57	37.10	BLF245,112
7	28 ~ 108	30	50	20	65	SOT-123A	568-2400-ND	51.53	45.47	43.20	BLF175,112
	28	30	28	27	40	SOT-123A	568-2395-ND	53.26	46.07	43.19	BLF145,112
	175	15	28	17	65	SOT-123A	568-2411-ND	47.01	40.66	38.12	BLF244,112
	175	5	28	16	60	SOT-123A	568-2396-ND	44.07	38.12	35.73	BLF242,112
8	175	30	28	18	65	SOT-279A	568-2388-ND	78.24	69.95	66.39	BLF245B,112
9	175	2	12.5	13	55	SOT-409A	568-2410-1-ND†	27.10	24.39	22.36	BLF202,115
	175	2	12.5	13	55	SOT-409A	568-2410-2-ND‡		9315.50/500		BLF202,115

† Cut Tape ‡ Tape and Reel

Fig.	f (MHz)	PL (W)	V (V)	Tp (us)	Duty Cycle	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
									L-Band LDMOS				
3	1200 ~ 1400	35	36	1000	10	14	45	SOT-467C	568-2423-ND	220.99	202.71	198.14	BLL1214-35,112
10	1200 ~ 1400	35	250	1000	10	13	50	SOT-502A	568-2424-ND	411.51	388.65	381.03	BLL1214-250,112

Fig.	f (MHz)	PL (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
							High Efficiency LDMOS				
11	2000 ~ 2200	30	28	17	28.5	SOT-502B	568-4280-ND	88.48	78.81	74.66	BLF6G22LS-130,112
	1800 ~ 2000	35.5	28	16.5	30	SOT-502B	568-4419-ND	88.48	78.81	74.66	BLF6G20LS-140,112

Fig.	Mode of Operation	f (MHz)	PL (W)	Gp (Db)	nD (%)	V (V)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
							LDMOS RF Power Modules					
12	CW, EDGE	920 ~ 960	17, 2.5 avg	30	50, 16	26	SOT-365C	568-2422-5-ND	64.87	58.00	55.90	BGF944,127
							LDMOS RF Power Transistors					
2	CW	0 ~ 1000	1000	26	75	50	SOT-539A	568-5103-5-ND ***NEW!***	313.20	287.28	280.80	BLF578,112
3	CW, CLASS AB	HF ~ 1000	50	16	60	26	SOT-467C	568-2384-ND	79.84	71.38	67.75	BLF1046,112
	CW, CLASS AB	HF ~ 2200	10	>11	30	26	SOT-467C	568-2401-1-ND†	46.67	43.56	40.45	BLF2043F,135
	CW, CLASS AB	HF ~ 2200	10	>11	30	26	SOT-467C	568-2401-2-ND‡		14684.00/400		BLF2043F,135
4	CDMA	10 ~ 2200	0.7	18.5	15	28	SOT-538A	568-5104-5-ND ***NEW!***	37.50	32.44	30.41	BLF6G21-10G,112
11	CW, CLASS AB	0 ~ 1000	100	21	60	40	SOT-467B	568-5105-5-ND ***NEW!***	129.14	116.44	112.63	BLF871S,112
							Ultra Linear LDMOS Drivers					
4	2-TONE, CLASS AB	HF ~ 2200	6, 2	13.5, 16	35, 20	26	SOT-538A	568-2398-ND	37.50	32.44	30.41	BLF3G21-6,112

† Cut Tape ‡ Tape and Reel

RF/IF Mixers with VCO

Vcc (V)	Icc (mA)	RF Input Freq. Typ. MHz	LO Freq. Typical MHz	Low Noise Amp	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100
4.5 ~ 8	7.4	800 ~ 1200	1200	Yes	20-SSOP	568-2372-1-ND	4.00	3.27	2.94
4.5 ~ 8	10.4	800 ~ 1200	1200	Yes	20-SSOP	568-2373-1-ND	3.73	3.05	2.74
4.5 ~ 8	2.8	500	200	No	8-SOIC	568-1204-5-ND†	2.17	1.75	1.58
4.5 ~ 8	2.8	500	200	No	8-DIP	568-2089-5-ND†	2.51	2.03	1.83
4.5 ~ 8	2.8	500	200	No	8-SOIC	568-5043-ND† ***NEW!***	2.81	2.27	2.04
2.7 ~ 6	4.2	150	150	No	20-SSOP	568-5044-ND† ***NEW!***	5.85	4.71	4.29
4.5 ~ 8	2.8	500	200	No	8-SOIC	568-5045-1-ND ***NEW!***	2.45	1.89	1.72
4.5 ~ 8	2.8	500	200	No	8-SOIC	568-5045-2-ND‡ ***NEW!***		2362.50/2,500	
2.7 ~ 5.5	7.5	500	500	No	20-SSOP	568-5046-ND† ***NEW!***	5.46	4.39	4.00
2.7 ~ 5.5	7.5	500	500	No	20-SSOP	568-4327-1-ND	5.85	4.78	4.29
2.7 ~ 5.5	7.5	500	500	No	20-SSOP	568-4327-2-ND‡		6485.00/2,500	
4.5 ~ 8	2.4	500	200	No	8-SOIC	568-1200-1-ND ***NEW!***	3.17	2.45	2.22
4.5 ~ 8	2.4	500	200	No	8-SOIC	568-1200-2-ND‡ ***NEW!***		3055.00/2,500	
4.5 ~ 8	2.8	500	200	No	8-DIP	568-1201-5-ND† ***NEW!***	2.80	2.25	2.05
2.7 ~ 6	7.4	500	150	No	20-SSOP	568-3576-5-ND† ***NEW!***	5.18	4.17	3.80

† Tube ‡ Tape and Reel

FM Receivers

Vcc (V)	Icc (mA)	RF Input Frequency Type (MHz)	LO Freq. Typical (MHz)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
4.5 ~ 8	6.6	500	150	20-SSOP	568-2087-5-ND†	5.60	4.50	4.10	—
4.5 ~ 8	6.6	500	150	20-SOIC	568-1203-5-ND†	5.60	4.50	4.10	—
4.5 ~ 8	7.4	500	150	20-SOIC	568-1205-5-ND†	5.18	4.17	3.80	—
2.7 ~ 6	4.2	150	150	20-SSOP	568-2088-1-ND	6.27	5.13	4.60	2780.00/M
2.7 ~ 6	5	150	150	20-SSOP	568-2036-1-ND	5.28	4.32	3.88	2341.00/M
2.7 ~ 6	5	100	100	20-SSOP	568-2037-1-ND	3.48	2.85	2.56	1543.00/M
2.7 ~ 7	4.2	150	150	20-SSOP	568-2034-1-ND	5.03	4.11	3.69	—
2.7 ~ 6	4.2	150	150	20-SSOP	568-2035-1-ND	6.15	5.03	4.51	2727.00/M
2.7 ~ 5.5	7	200	200	20-TSSOP	568-2374-1-ND	2.97	2.43	2.18	—
2.7 ~ 5.5	10	500	500	24-TSSOP	568-1106-1-ND	6.22	5.09	4.57	2758.00/M
4.5 ~ 5.5	8.5	500	500	20-SSOP	568-2378-1-ND	2.98	2.30	2.09	1148.00/M

* For Tape and Reel part number, change 1-ND to 2-ND. † Tube

RF/IF Systems

Vcc (V)	IF 3 dB Bandwidth	-3dB Limiting	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
4.5 ~ 8	41MHz	-92dBm	16-SOIC	568-1202-5-ND†	5.66	4.55	4.15	—
	41MHz	-92dBm	16-SOIC	568-2446-1-ND	3.99	3.26	2.93	1769.00/M

* For Tape and Reel part number, change 1-ND to 2-ND. † Tube

SPDT RF Switch

Vdd (V)	Idd (µA)	On Switch Time (ns)	Off Switch Time (ns)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
3 ~ 5.5	40/300	20	20	8-TSSOP	568-2376-1-ND	3.43	2.65	2.40	1322.00/M

* For Tape and Reel part number, change 1-ND to 2-ND.

Wideband Linear Mixer

Vs (V)	Is (mA)	Ptot (mW)	RF Output Freq. Range	IF Output Freq. Range	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 3,000
4	20	40	800 ~ 2500MHz	50 ~ 500MHz	SOT-363	568-2066-1-ND	1.09	.85	.75	380.00/M

* For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

General Purpose Wideband Amplifiers

Vs (V)	Is (mA)	Pd (mW)	@ 1GHz Nf (dB)	Psat (dBm)	Gain (dB)	P1db (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
6	35	200	4	12.5	22.7	8.3	SOT-363	568-2068-1-ND	.86	.67	.59	—	—	BGA2709,115
	20	200	4.7	2	12.9	-2	SOT-363	568-2069-1-ND	1.03	.82	.74	—	—	BGA2711,115
	25	200	3.9	4.8	21.3	0	SOT-363	568-2070-1-ND	.86	.67	.59	—	—	BGA2712,115
	25	200	4.9	11	24	7	SOT-363	568-2071-1-ND	.81	.65	.58	—	—	BGA2716,115
	15	200	2.1	1	23	-3	SOT-363	568-2072-1-ND	1.00	.79	.72	568-2072-2-ND	132.00/M	BGA2717,115
	35	200	4.7	13.8	30	12.2	SOT-363	568-3548-1-ND	1.17	.93	.84	—	—	BGM1011,115
4	50	200	4.4	12	21	11	SOT-363	568-2074-1-ND	1.28	1.02	.92	568-2074-2-ND	229.00/M	BGA2771,115
5	27.5	200	4	15	35	12	SOT-363	568-2076-1-ND	1.44	1.14	1.03	568-2076-2-ND	210.00/M	BGM1013,115
	21	200	4.2	12.9	32.3	11.2	SOT-363	568-2077-1-ND	1.17	.93	.84	568-2077-2-ND	210.00/M	BGM1014,115
	4.3	200	2.6	-4	22	-10	SOT-363	568-3544-1-ND	.81	.65	.58	—	—	BGA2715,115
Evaluation Board for BGA2709								568-4086-ND	163.65	—	—	—	—	OM7604/BGA2709
Evaluation Board for BGA2712								568-4087-ND	163.65	—	—	—	—	OM7606/BGA2712
Evaluation Board for BGA2716								568-4089-ND	163.65	—	—	—	—	OM7608/BGA2716
Evaluation Board for BGA2776								568-4092-ND	159.73	—	—	—	—	OM7611/BGA2776
Evaluation Board for BGM1011								568-4096-ND	159.73	—	—	—	—	OM7614/BGM1011
Evaluation Board for BGA2748								568-4090-ND	159.73	—	—	—	—	OM7609/BGA2748
Evaluation Board for BGA2771								568-4091-ND	159.73	—	—	—	—	OM7610/BGA2771
Evaluation Board for BGM1012								568-4097-ND	159.73	—	—	—	—	OM7615/BGM1012
Evaluation Board for BGM1013								568-4098-ND	163.65	—	—	—	—	OM7616/BGM1013
Evaluation Board for BGM1014								568-4099-ND	163.65	—	—	—	—	OM7617/BGM1014
Evaluation Board for BGA2715								568-4088-ND	163.65	—	—	—	—	OM7607/BGA2715

Medium-Power Gain Blocks

Vs (V)	Is (mA)	Pd (mW)	@ 850MHz Nf (dB)	P1db (dBm)	@ 2500MHz Nf (dB)	P1db (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	NXP Part No.
4.8	84	20	3	21	3.4	18	SOT-89	568-2075-1-ND	3.00	2.45	2.20	568-2075-2-ND	789.00/M	BGA6589,135
4.1	84	16	3.5	17	3.8	14	SOT-89	568-3546-1-ND	2.87	2.22	2.02	568-3546-2-ND	789.00/M	BGA6289,135
5.1	74	17	3.1	20	3.4	15	SOT-89	568-3547-1-ND	3.13	2.42	2.20	568-3547-2-ND	789.00/M	BGA6489,135
Evaluation Board for BGA6589B								568-4095-ND	163.65	—	—	—	—	OM7613/BGA6589B
Evaluation Board for BGA6289B								568-4093-ND	163.65	—	—	—	—	OM7620/BGA6289B
Evaluation Board for BGA6489B								568-4094-ND	163.65	—	—	—	—	OM7612/BGA6489B

Two Stage Variable Gain Linear Amplifier

Vs (V)	Is (mA)	Ptot (mW)	Frequency Range (MHz)	@ 900MHz DG (dB)	P1db (dBm)	ACPR (dBc)	@ 1900MHz DG (dB)	P1db (dBm)	ACPR (dBc)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
3.3	50	200	800 ~ 2500	24	62	11	23	56	13	SOT-363	568-2067-1-ND	1.56	1.24	1.11	568-2067-2-ND	538.00/M	BGA2031/1,115

Low Noise Wideband Amplifiers

Vs (V)	Is (mA)	Ptot (mW)	@ 1.575MHz Nf (dB)	Gain (dB)	IIP3 (dBm)	@ 900MHz Nf (dB)	Gain (dBm)	IIP3 (dBc)	@ 1800MHz Nf (dB)	Gain (dB)	IIP3 (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1.8	4.5	55	0.9	16.5	-11	—	—	—	—	—	—	6-XSON	568-4983-1-ND ***NEW!***	.92	.72	.63	568-4983-2-ND ***NEW!***	5,000	366.00/M	BGU7005,115
4.5	30	135	—	—	—	1.3	22	-7.4	1.3	19.5	-4.5	SOT-343R	568-2062-1-ND	1.02	.80	.70	568-2062-2-ND	3,000	261.00/M	BGA2001,115
	30	135	—	—	—	1.8	24	-6.5	1.8	16	-4.8	SOT-343R	568-2063-1-ND	1.02	.80	.70	568-2063-2-ND	3,000	261.00/M	BGA2003,115
	30	135	—	—	—	1.5	19	10	—	—	—	SOT-363	568-2064-1-ND	.97	.76	.67	568-2064-2-ND	3,000	261.00/M	BGA2011,115
	15	70	—	—	—	—	—	—	1.7	16	10	SOT-363	568-2065-1-ND	.97	.76	.67	568-2065-2-ND	3,000	261.00/M	BGA2012,115
Evaluation Board for BGA2001													568-4080-ND	163.65	—	—	—	—	—	OM7600/BGA2001/1800
Evaluation Board for BGA2001													568-4081-ND	163.65	—	—	—	—	—	OM7600/BGA2001/900
Evaluation Board for BGA2003													568-4082-ND	163.65	—	—	—	—	—	OM7619/BGA2003
Evaluation Board for BGA2012													568-4083-ND	163.65	—	—	—	—	—	OM7601/BGA2012

NEW! Medium Power Amplifier

Type	Vcc (V)	Frequency Range (MHz)	Supply Icc Type (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	NXP Part No.
BGA7024	5	400 ~ 2700	110	SOT-89	568-5106-1-ND	9.28	7.70	7.00	568-5106-2-ND	4550.00/M	BGA7024,135

Dual PLL Synthesizer

Vdd (V)	Main Vco Input Frequency Range	Input Signal Level (dBm)	Phase Comparator Max. Freq.	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	NXP Part No.
2.7 ~ 3.6	350 ~ 2500MHz	-18/0	4MHz	20-TSSOP	568-2375-1-ND	6.04	4.94	4.44	SA8027DH,518

UHF to 900MHz Transceiver

The SA58646 is a BiCMOS integrated circuit that performs all functions from the antenna to the microcontroller for reception and transmission for both the base station and the handset in a 902MHz ~ 928MHz full-duplex radio.

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	NXP Part No.
64-LQFP	568-4004-1-ND	4.65	3.80	3.41	568-4004-2-ND	2653.00/M	SA58646BD,118

Bluetooth® 1.2 SiP

The BGB203 is a System-in-a-Package (SiP) solution for Bluetooth 1.2 wireless connectivity. Optimized for short range hosted and embedded applications, it will reduce board space, lower overall cost, and speed time-to-market for a wide range of mobile applications. The BGB203 combines the Bluetooth RF part, protocol stack, Link Controller (LC), Link Manager (LM), and Host Controller Interface (HCI) firmware of the Bluetooth system specification in one SiP with embedded software. Together with an antenna and a reference clock, this device forms a complete Bluetooth solution.

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	NXP Part No.
48-HVQFN	568-3300-1-ND	15.44	14.42	13.39	BGB203H1S06UM

FDI Bluetooth® Demo Kit

Combining the NXP Bluetooth 2.0 SiP BGB203/H1/S06 with 1SPP firmware, this innovative solution implements a Bluetooth Serial Port Profile (SPP) and can be used to wirelessly transfer data between systems.

Kit includes:

• Two 1SPP Evaluation Boards • Two USB Cables • PIFA Antenna included on PCB • DB9 Serial Port connection to PC

622-1020-ND (1SPP-BT-F) **$50.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tag and Label ICs

Dimensions in mm

Fig. 1 – FCP2

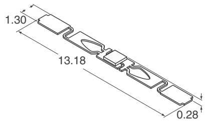

Fig. 2 – MOA2

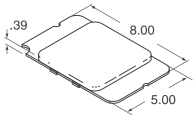

Fig. 3 – SOT-385

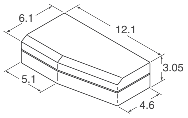

Fig. 4 – 8-TSSOP

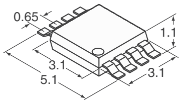

Fig. 5 – MOA4

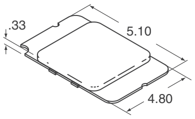

Fig.	Series	Frequency	Size	Operating Distance (m)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
3	HITAG	125kHz	256	up to 1.5	SOT-385	568-2203-ND§	3.36	2.70	2.46	2.22	—	—	—	HT2DC20S20/F,122
2	HITAG	125kHz	256	up to 2.0	MOA2	568-2215-1-ND	.94	.73	.65	.56	568-2215-2-ND	16,500	278.00/M	HTSMOH5601EV,118
2	HITAG	125kHz	2048	up to 1.5	MOA2	568-2202-1-ND	2.84	2.19	1.99	1.79	568-2202-2-ND	16,500	1013.00/M	HT1MOA2S30/E/3,118
1	HITAG	125kHz	2048	up to 2.0	FCP2	568-2211-1-ND	1.29	1.03	.92	.80	—	—	—	HTSFCH4801EV/DH,11
2	HITAG	125kHz	2048	up to 2.0	MOA2	568-2214-1-ND	1.86	1.47	1.33	1.16	568-2214-2-ND	16,500	625.00/M	HTSMOH4801EV,118
2	I•CODE®	13.56MHz	512	up to 1.5	MOA2	568-2225-1-ND	1.10	.85	.75	.65	—	—	—	SL1MOA2S30/D,118
2	I•CODE®	13.56MHz	1024	up to 1.5	MOA2	568-2228-1-ND	.68	.53	.47	.41	568-2228-2-ND	16,500	202.00/M	SL2MOS2001DV,118
4	U•CODE	2.45GHz UHF	2048	up to 3.0	8-TSSOP	568-2229-1-ND	.83	.64	.57	.49	568-2229-2-ND	2,500	273.00/M	SL3S3001FTT,118

§ Bulk

Smart Card ICs

Fig.	Series	EEPROM Frequency	Size (byte)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
1	MIFARE®	13.56MHz	64	FCP2	568-2216-1-ND	.51	.36	.31	.27	—	—	—	MF0FCP2U10/DH,118
1	Ultralight	13.56MHz	64	FCP2	568-2217-1-ND	.56	.39	.34	.29	—	—	—	MF0FCP2U11/DH,118
1	Standard 1K	13.56MHz	1024	FCP2	568-2218-1-ND	1.48	1.17	1.06	.92	—	—	—	MF1FCP2S50/DH,118
5	MIFARE	13.56MHz	1024	MOA4	568-2219-1-ND	1.52	1.20	1.08	.94	—	—	—	MF1MOA4S50/D,118
5	MIFARE, DESFire	13.56MHz	4096	MOA4	568-2220-1-ND	3.33	2.73	2.45	2.23	568-2220-2-ND	16,500	1378.00/M	MF3MOD4001DV/406,1

Reader ICs

Series	Frequency	Package	Digi-Key Part No.	Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
HITAG	125kHz	14-SOIC	568-2206-5-ND§	3.00	2.43	2.18	1.94	—	—	—	HTRC11001AD/02EE,11
	125kHz	14-SOIC	568-2207-1-ND†	3.39	2.62	2.38	2.14	568-2207-2-ND	2,500	1308.00/M	HTRC11001TD-T/03EE,11
MIFARE®	13.56MHz	32-SOIC	568-2222-5-ND§	10.88	8.92	8.05	7.40	—	—	—	MFRC50001T/0FE,112
	13.56MHz	32-SOIC	568-2223-5-ND§	11.92	10.03	9.22	8.41	—	—	—	MFRC53001T/0FE,112
	13.56MHz	32-SOIC	568-2224-5-ND§	12.58	10.59	9.73	8.87	—	—	—	MFRC53101T/0FE,112
	13.56 MHz	32-HVQFN	568-4766-ND§	6.83	5.60	5.06	4.65	—	—	—	MFRC52301HN1,151
MIFARE and I•CODE®	13.56MHz	32-SOIC	568-2199-5-ND§	14.34	12.07	11.09	10.11	—	—	—	CLRC63201T/0FE,112

§ Tube † Cut Tape

I•CODE® Proximity Evaluation Kit

The I•CODE Pegoda reader is based on the SL RC400 reader IC. The SL RC400 reader IC for contactless communication at 13.56MHz with up to 75mm read/write distance and USB Interface.

Kit Includes:
- I•CODE Pegoda Reader
- USB Cable
- SL RC400 Samples
- I•CODE sample labels
- Software
- Users Guide

568-2230-ND (NXP # SLEV400/HAB,122) **$246.65**

MIFARE® AND I•CODE® Contactless Smart Card Reader

The Pegoda reader, CL RD701, is a contactless reader based on the CL RC632 reader IC. The CL RC632 is a member of a family for highly integrated reader ICs for contactless communication at 13.56MHz. All layers of ISO14443A+B, ISO 15693 as well as the MIFARE classic crypto are supported. The CL RD701 covers all functionality of the CL RC632 to be able to use this reader as a reference design for a new hardware design. It is designed for easy PC adaptation and application development as well. Typical operating distance 75 ~ 100mm. CE and FCC compliant.

Kit Includes:
- CL RD701 Pegoda Reader
- USB cable
- Ferrite

568-2200-ND (NXP # CLRD701/HAB,122) **$296.61**

MIFARE® Demo Kit

The MF EV700/HAB is based on the MF RD700 Pegoda reader which uses the MF RC500 reader IC. The MF RC500 is a member of the MICORE family of highly integrated reader ICs for contactless communication at 13.56MHz. The MF EV700 evaluation kit is designed to fulfill several requirements. The Pegoda reader covers all functionality of the MF RC500 to be able to use this reader for easy PC adaptation and application development.

Kit Includes:
- MF RD700 Pegoda reader
- Software
- 5 MIFARE cards

568-2221-ND (NXP # MFEV700/HAB,122) **$361.67**

RFID Product

RFID Inlays and Labels for V750 Series

RFID Inlay

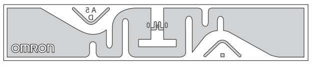

In contrast to bar codes, RFID (Radio Frequency Identification) uses radio waves to send information such as a unique ID of a product to an antenna, which is then read by the reader. This ID or programmed information is displayed on a host, such as your computer. With RFID you can find all of your goods more effectively without having to see them directly or unpacking boxes/pallets. Furthermore, multiple ID tags/Inlays can be read while being moved in a warehouse or plant.

Specifications: • Operating Frequency: 915MHz • Supported Protocols: EPC Class1 Generation 2 • Number of Antenna Port: Mono-Static • Operating Temperature: -10°F ~ 50°F • Protective Rating: IP50 (IEC 60529) • Power Supply Method: Exclusive AC Adapter • Interface Port: Ethernet RS232C • Includes Power Supply

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 5,000	Omron Part No.
Robust Generation 2 Wave Inlays 94mm x 16mm (3.7" x .63")	Z2642CT-ND	3.86	3.48	2.79	Z2642TR-ND	1931.25/M	V750-D22M01-IM-R5K

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic
Electronic Components

NEW! PAN1315 Bluetooth® HCI Module

The PAN1315 series has been designed to be 100% pin compatible with the next generation of Bluetooth Low Energy devices. This unique design feature enables designers to seamlessly transition between Bluetooth Classic and Low Energy modules. **Features:** • Fully Qualified Bluetooth v2.1 EDR • High Sensitivity (-93 dBm typical) • Fast Connection Setup • Extended SCO Link **Performance Specifications:** • **Dimensions:** 6.5mm x 9mm x 1.7mm • **Operating Temperature Range:** -40°C ~ 85°C • **Supply Voltage Range:** 1.7V ~ 4.8V **Applications:** • Consumer Health Devices • Assisted Living • Industrial Sensors

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
1	CC2560 HCI Module, without Antenna	P14264CT-ND‡	14.41	12.12	11.14	P14264TR-ND	4749.00	ENW-89818C2JF
	CC2560 HCI Module, with Antenna	P14266CT-ND‡	15.71	13.21	12.14	P14266TR-ND	5176.50	ENW-89818A2JF
2	Proto Bluetooth Module SPP, with Antenna	PAN1315ETU-ND	52.70	46.50	44.18	—	—	PAN1315_ETU
—	Evaluation Kit includes TI MSP430 Controller	P14265-ND	324.97	—	248.75	—	—	EVAL_PAN1315

‡ Cut Tape

Fig. 1

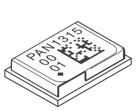

Fig. 2

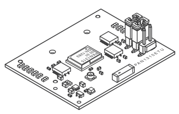

PAN4561 RF Module IEEE 802.15.4

The PAN4561 is an extended range 2.4GHz, ISM, RF module. Modules may be configured from simple point-to-point proprietary devices to complex mesh networks by choosing from different firmware options. Optional Synapse SNAP® firmware provides a highly flexible, industry leading solution for mesh networking with a complete network development environment. The module uses the same FreeScale eight bit GT60 processor as Panasonic's popular PAN4555 making the two products application compatible. The PAN4561 has 55 pins allowing access to the full functionality of the MC13213 SOC. Low noise and power amplifiers have been added to the PAN4561 for extended range. With a maximum transmit power of 20dBm and receive sensitivity of -105dBm this module has a link margin of 125dBm, giving it the best range in its class. Panasonic provides software solutions to deliver easily configured and highly reliable wireless solutions. SNAP® firmware provides unparalleled network flexibility and full access to the MCU via Python. This unique stack forms a self-healing 802.15.4 network while eliminating the requirement for a network coordinator further increasing network reliability. E-Senza's SN55 stack allows nearly instantaneous integration of sensors, devices and meters into a seamless low power IEEE802.15.4 wireless personal area network using simple AT commands. Multiple antenna options are available including, ceramic antenna, SMD pad output, and U.FL connector. This module will comply to EN300328, FCC CFR Part 15 and ARIB STD-T66. FCC and IC certifications are pending.

Features: • Small size: 35mm x 15mm x 3.5mm • 16 selectable channels with 250 kbps in the 2.4 GHz band • High sensitivity: -105 dBm typical at 1% packet error rate • Low supply voltage (2.7V ~ 3.3V, 3.0V typical) • Link quality and clear channel assessment capability • Two UARTS and one I2C bus • 5 channel 16 bit timer/pulse width modulation (tpm) outputs • 33 digital I/O lines with programmable pull-ups and several with high-current driver • BDM port for direct download programming • 3 antenna options: single port 50Ω, ceramic antenna or SMD output • Low power modes for increased battery life • 20 dBm typical output power programmable over 30 dB range • **Operating Temperature Range:** -40°C ~ 85°C • 60k flash and 4k RAM memory • 8 channel A/D converter with 10-bit for fast and easy conversion from analog inputs (temperature, pressure and fluid levels) to digital values

Development Kit: Ships with everything you need to get up and running. It is complete with software, hardware, documentation, power supplies, antennas, 12 node license, RS232 and USB cables - even the batteries to make the nodes portable. Contains 3 nodes: SN163 bridge, SN111 end device and SN171 proto-board. Each node is preloaded with a sample script to run right out of the box.

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
1	2.4GHz Module with Antenna, with SNAP	P14236CT-ND	32.64	29.38	26.93	P14236TR-ND	11220.00	ENW-C9A22A4EF
	2.4GHz Module with Antenna, with SN55 cord	P14235CT-ND	30.68	27.62	25.32	P14235TR-ND	10546.50	ENW-C9A22A2EFC
	2.4GHz Module with Antenna, with SN55 node	P14238CT-ND	30.67	26.08	24.16	P14238TR-ND	10544.00	ENW-C9A22A2EFN
	2.4GHz Module with Antenna, no S/W	P14234CT-ND	27.40	24.66	22.61	P14234TR-ND	9419.00	ENW-C9A22A1EF
—	Development Kit for PAN4561, with SNAP	P14237-ND†	337.50	—	—	—	—	EVAL_PAN4561
2	Proto Module for PAN4561ETU, with Antenna, with SNAP	P14252-ND† ***NEW!***	55.00	48.53	46.10	—	—	ENW-C9A30A4EF
	Proto Module for PAN4561ETU, with UFL, with SNAP	P14253-ND† ***NEW!***	55.00	48.53	46.10	—	—	ENW-C9A30B4EF

† Bulk

Fig. 1

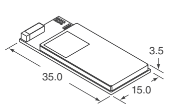

Fig. 2 ***NEW!***

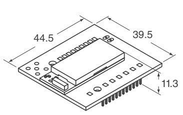

PAN4555 RF Module IEEE 802.15.4

The PAN4555 module is a short range, low power, 2.4GHz ISM band transceiver which includes a complete 802.15.4 physical layer (PHY) modem. Designed for the IEEE 802.15.4 wireless standard, an appropriate microcontroller (MCU) with reference oscillator provides a cost effective solution for short-range data links and networks. This module complies to EN300328, ARIB STD-T66 and is FCC Part 15 Certified. Panasonic provides software solutions to deliver easily configured and highly reliable wireless solutions. SNAP® firmware provides unparalleled network flexibility and full access to the MCU via Python. This unique stack forms a self-healing 802.15.4 network while eliminating the requirement for a network coordinator further increasing network reliability. **Features:** • Very small size (12.2mm x 16.4mm x 2.2mm) • 2 antenna options: Single port 50Ω or ceramic antenna • 16 selectable channels with 250 kbps in the 2.4GHz band • Low power modes for increased battery life • High sensitivity of -92 dBm typical at 1% Packet Error Rate • 0 dBm typical output power programmable over a 30 dB range • Low supply voltage (2.0V ~ 3.4V, 2.7V typical) • Link Quality and Clear Channel Assessment capability • 60k Flash and 4k RAM memory • 4 channel A/D converter with 10 bit for fast and easy conversion from analog inputs-such as temperature, pressure and fluid levels-to digital values • 3 channel 16 bit timer/pulse width modulation (TPM) outputs • BDM port for direct download programming • In total 20 digital I/O lines with programmable pull-ups and few with high-current driver • **Operating Temperature Range:** -40°C ~ 85°C

Applications: • Remote control and wire replacement in industrial systems such as wireless sensor networks • Factory/home automation and motor/lighting control • Inventory management and RF ID tagging and AMR • Environmental, patient, or fitness monitoring **Development Kit:** Ships with everything you need to get up and running. It is complete with software, hardware, documentation, power supplies, antennas, 12 node license, RS232 and USB cables - even the batteries to make the nodes portable. Contains 3 nodes: SN163 bridge, SN111 end device and SN171 proto-board. Each node is preloaded with a sample script to run right out of the box.

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
1	2.4GHz Module with Antenna, with SNAP	P14239CT-ND	28.08	23.87	22.12	P14239TR-ND	9652.50	ENW-C9A08A4EF
	2.4GHz Module with Antenna, no S/W	P13683CT-ND	22.04	19.84	18.19	P13683TR-ND	7576.50	ENW-C9A08A3EF
	2.4GHz Module with SMD Pad, no S/W	P13684CT-ND	23.03	20.73	19.01	P13684TR-ND	7917.00	ENW-C9A09N4EF
—	Development Kit for PAN4555, with SNAP	P14157-ND†	407.70	—	—	—	—	EVAL_PAN4555
2	Proto Module for PAN4555, with SNAP	P14156-ND†	47.01	40.66	38.12	—	—	EVAL_PAN4555ETU

† Bulk

Fig. 1

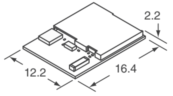

Fig. 2

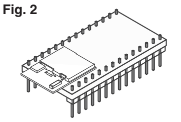

ZigBee™ Modem PAN4570

The PAN4570 module is a short range, low power, 2.4GHz ISM band transceiver using the Ember™ EM250 single chip solution for ZigBee, an IEEE802.15.4 compliant transceiver with a 16 bit XAP2b microprocessor. With an added onboard reference oscillators and optimized RF front-end circuitry PAN4570 provides the complete hardware needed for a ZigBee solution. PAN4570 utilizes EmberZNet (sold separately), the Ember ZigBee compliant software stack, which is a ZigBee profile-ready platform compliant solution. A reliable Application Programming Interface based on the ZigBee specification is provided for the ease of the creation of application profiles. Additional regulator and 32kHz crystal can be mounted in addition on customer demand. **Features:** • 3 antenna options: Plug, single port 50Ω or ceramic antenna • 16 selectable channels with 250 kbps in the 2.4GHz band • 3 different power modes for increased battery life • High sensitivity of -98 dBm typical at 1% Packet Error Rate • +3 dBm output power (+5 dBm in boost mode) • Low supply voltage (2.1V ~ 3.6V, 3.0V typical) • Small size (20.0mm x 26.5mm x 3.0mm) • Onboard low power regulator • 128k Flash and 5k SRAM memory • Link quality and clear channel assessment capability • All of the 17 GPIO of EM250 are available at the module pads, which are multiplexed to GPIO, UART, SPI, I2C or up to four analog inputs to an ADC and two timer waveform outputs • Critical portions of IEEE802.15.4-2003 plus a first-line filter for non-intended packets are realized in hardware, thus reducing the workload on the µC • **Operating Temperature Range:** -40°C ~ 85°C. **Applications:** • Remote control and wire replacement in industrial systems such as wireless sensor networks • Factory/home automation and motor/lighting control • Inventory management and RF ID tagging and AMR • Environmental, patient, or fitness monitoring

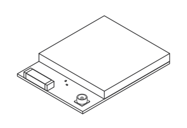

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
2.4GHz Ember Module with Antenna	P13685CT-ND	41.00	35.82	33.45	P13685TR-ND	14348.50	ENW-C9A02A3E
2.4GHz Ember Module U.FL	P13686CT-ND	41.00	35.82	33.45	P13686TR-ND	14348.50	ENW-C9A03N2E
2.4GHz Ember Module SMD Pad	P13687CT-ND	41.00	35.82	33.45	P13687TR-ND	14348.50	ENW-C9A04N4E

ZigBee™ Communication Module IEEE 802.15.4

The module uses Freescale's 802.15.4 transceiver (MC13193), microcontroller (GT60) and is licensed to use all released Freescale ZigBee Protocol stack layer software. Further, the PAN802154 has an on-board RS-232 interface IC and two on-board printed antennas that are etched on both sides of the board for optimum RF sensitivity. Tested to fully comply with current FCC requirements for 2.4GHz ISM band application allowing the customer to complete and bring the end product to the market much quicker. **Features:** • Fully supports ZigBee, 802.15.4, or Simple MAC Application • 2.4GHz ISM, ZigBee • 16 Channels, 5 MHz channel spacing, Full Spectrum Encode and Decode (IEEE Standard 802.15.4); up to 250 Kbps bit rate • RS-232 port; 2 Analog inputs selectable to 10bit A/D Converter; and up to 8 Digital I/O ports on easy to connect header connector • Background Debug Feature • 1 Switch and 1 LED for control and monitoring • Output power: 0dBm typical • RX Sensitivity: -92 dBm typical at 1.0% Packet Error Rate • Shielded RF Section for improved performance • On board printed antenna or optional connector for external antenna • Commercial and Industrial Operating Temperature Range • Power Supply Range: 2.2VDC to 3.4VDC without using RS-232 capability; 3.0 VDC to 3.4 VDC with using RS-232 capability **Applications:** • Home Automation/Appliance control and monitoring • Industrial/Security/Asset Tracking • Commercial/Electronic Labeling • Medical/Patient Monitor (non-critical) **Performance Specifications:** • **Dimensions:** 48mm x 34mm x 3mm (with onboard printed antennas) • **Operating Voltage**: 2.2 ~ 3.4 Volts DC • **Operating Temperature:** -20°C ~ 70°C • **Power Consumption:** Tx: 35mA Max., Rx: 40mA Max. • **Hybernate/Doze:** Dormant is less than 100µa • **Output RF Power:** 0 dBm typical, 3 dBm max. • **Receive Sensitivity:** -92 dBm typ. • **CPU with 4K RAM; 60K Flash:** 8 bit • **Bit Rate:** 250 Kbits/sec., 128 bytes/4ms • **Interface:** RS-232 Header, Header connector for 8 digital I/Os; and 2 analog inputs (2 ports - 10 bit A/D Converter)

P13479-ND **$27.40**

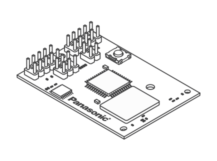

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Pulse® A TECHNITROL COMPANY

Wireless Antennas

Features: • For WLAN devices using WiFi (802.11) Bluetooth® and ZigBee™ • Omni-Directional radiation pattern provides broad 360° coverage • One-quarter wavelength dipole configuration (one-eighth for W1043) • Reverse male polarity SMA • Polarization: Vertical • Radiation: Omni • Color: Black

RoHS COMPLIANT

Fig.	Frequency	Gain (dBi)	Impedance (NOM)	VSWR	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Pulse Part No.
1	2.4 ~ 2.5GHz	3.2	50Ω	≤1.9	—	553-1310-ND	4.65	3.19	2.68	2.54	W1027
2	2.4 ~ 2.5GHz	2.0	50Ω	≤2.0	—	553-1471-ND†	5.25	3.60	3.03	2.86	W1010
3	2.4 ~ 2.5GHz	2.0	50Ω	≤2.0	—	553-1309-ND	4.05	2.78	2.34	2.21	W1030
4	2.4 ~ 2.5GHz	3.2	50Ω	≤2.0	12.5	553-1311-ND	5.70	3.91	3.29	3.11	W1037
	2.4 ~ 2.5GHz	4.9	50Ω	≤2.0	12.5	553-1476-ND	7.35	5.03	4.24	4.01	W1038
	902 ~ 928MHz	3.0	50Ω	≤2.0	14.0	553-1474-ND	7.32	5.36	4.74	4.44	W1063
5	2.4 and 5.0GHz	2.0	50Ω	≤2.0	—	553-1313-ND*	6.90	4.73	3.98	3.76	W1043

* Dual-band, blade style antenna † Standard SMA (Male) Connector

Fig. 1

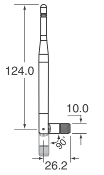

Fig. 2

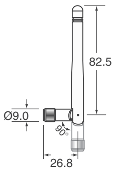

Fig. 3

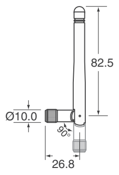

Fig. 4

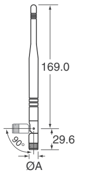

Fig. 5

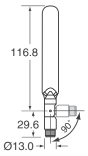

Radios.INC

Receiver and Transmitter Modules

Radios Inc. provides receiver and transmitter modules based on the Micrel RF line of products for applications like keyless entry, remote access, periodic data transfer, and many more. The relay modules provide a decoder along with the receiver IC, allowing for control of powered systems remotely. The handheld transmitters provide a 2-button interface for remote communication with the desired receiver with the appropriate decoder. The HHDS-ML development systems provide an evaluation environment for range, firmware, and electrical testing. The DS-ML development systems include a breadboarding area and higher functionality testing of the devices. The HHDS-ML and DS-ML allow for development with any of the pinned receiver/transmitter modules, which are purchased separately.

Frequency (MHz)	Description	Package	Digi-Key Part No.	Price Each 1	25	100	Radios Inc. Part No.
Transmitter Modules							
433	Transmitter Module OOK	18-DIP	694-1011-ND	8.33	7.63	6.43	MTX-102-433DR-B
Transceiver Module							
915	Transceiver Module FSK	24-DIP	694-1014-ND	25.84	23.65	19.93	MXR-505-915DR-B
Remote Control Receiver Modules							
—	Remote Control Receiver Module, 3-Relay Keeloq Decoder	—	694-1016-ND	55.74	—	—	RCR-ML-010KL-3
—	Remote Control Receiver Module, 3-Relay Holtek Decoder	—	694-1017-ND	56.13	—	—	RCR-ML-010HT-3
RF Development Systems for Modules							
—	Microchip PIC MCU, 1-Unit	—	694-1024-ND*	95.00	—	—	HHDS-ML-P1
	Microchip PIC MCU, 2-Unit	—	694-1025-ND*	149.00	—	—	HHDS-ML-P2
	Texas Instrument MSP430™ MCU, 1-Unit	—	694-1026-ND*	95.00	—	—	HHDS-ML-M1
	Texas Instrument MSP430 MCU, 2-Unit	—	694-1027-ND*	149.00	—	—	HHDS-ML-M2

*Requires the purchase of desired transmitter/receiver module(s) to operate

RF Communications

Description	Digi-Key Part No.	Price Each
RF Encoder/Decoder Chipset — RoHS Compliant		
Decoder, 3 digital I/O, 8-PDIP	RF803D-ND	1.95
Decoder, 3 digital I/O, 8-SOIC	RF803D-SO-ND	1.95
Encoder, 3 digital I/O, 8-PDIP	RF803E-ND	1.47
Encoder, 3 digital I/O, SOT23-6	RF803E-SO-ND	1.42
Protext-GSM Remote Control — RoHS Compliant		
GSM Telemetry System with Integrated GPS Module	PROTEXT-USA-ND	223.50
2.4GHz Antennas — RoHS Compliant		
Mini Dipole Antenna 2.4GHz, 2.1dBi	ANT-24G-DPL-FP-ND	9.60
Mini Helical Antenna 2.4GHz, 90° SMA	ANT-24G-HL90-SMA-ND	5.40
Mini Helical Antenna 2.4GHz, 90° SMA	ANT-24G-WPJ-SMA-ND	6.66
Mini Quad Band Antenna for GSM Modem	ANT-GSMQB-MMCX-ND	6.75
Right Angle PCB Mount for M4 Antenna	SCRTM4RA-ND	.57
Hand Held RF Meter		
Hand Held RF Meter, 315MHz	006-315R1-ND	73.50
Hand Held RF Meter, 433MHz	006-433R3-ND	73.50
GSM Modem — RoHS Compliant		
SMT Ribbon Cable Mount Connector for GSM900	GSM900-CON-ND	2.09
Flat Ribbon Cable for use with GSM900/GSM900USA	GSM900-FFC-ND	2.09
Tri-Band Wireless Module supporting GSM/GPRS	GSM900USA-ND	58.50
AM Modules — RoHS Compliant		
Transmitter Module, 433MHz, 5V	QAM-TX1-433-ND	4.12
Transmitter Module, 433MHz, 12V	QAM-TX3-433-ND	4.12
Transceiver Module, 2.4GHz	QFM-TRX1-24G-ND	6.01
Typhoon Radio Modem — RoHS Compliant		
Wireless Radio Modem RS232/485, FCC 4km	TYPHOON4K-915-ND	412.50
Alpha RF Modules — RoHS Compliant		
FM Receiver 5.4V, 433MHz	ALPHA-RX433S-ND	5.26
FM Receiver 5.4V, 915MHz	ALPHA-RX915S-ND	5.26
FM Transceiver 5.4V, 433MHZ	ALPHA-TRX433S-ND	7.35
FM Transceiver 5.4V, 915MHZ	ALPHA-TRX915S-ND	7.35
FM Transmitter 5.4V, 433MHz	ALPHA-TX433S-ND	4.91
FM Transmitter 5.4V, 915MHz	ALPHA-TX915S-ND	4.91
Radio Remote Control Systems — RoHS Compliant		
Hornet		
FM Remote Control System, 1 channel	HORNET-S1-ND	72.00
FM Remote Control System, 2 channel	HORNET-S2-ND	73.50
FM Remote Control System, 3 channel	HORNET-S3-ND	65.63
Transmitter, 1 switch	HORNET-TX1-ND	14.85
Transmitter, 2 switch	HORNET-TX2-ND	14.85
Transmitter, 3 switch	HORNET-TX3-ND	14.85
O-Ring, Seals Transmitter to IP65	HORNET-TX-IPKIT-ND	6.47
Firefly		
Transmitter 433.92MHz, 1 switch	FIREFLY-TX1-ND	49.36
Transmitter 433.92MHz, 2 switch	FIREFLY-TX2-ND	53.18
Transmitter 433.92MHz, 4 switch	FIREFLY-TX4-ND	54.55
Transmitter 433.92MHz, 16 switch	FIREFLY-TX16-ND	60.00
Belt Clip and O-Ring Seals Transmitter to IP67	FIREFLY-TX-IPKIT-ND	6.47
Viper		
FM Remote Control System, 1 channel	VIPER-S1-ND	111.00
FM Remote Control System, 2 channel	VIPER-S2-ND	114.00
FM Remote Control System, 4 channel	VIPER-S4-ND	115.50
Wasp		
Remote Control System, 1 switch, 433.92MHz	WASP-1-ND	43.50
Remote Control System, 2 switch, 433.92MHz	WASP-2-ND	45.00
Remote Control System, 3 switch, 433.92MHz	WASP-3-ND	46.50
Remote Control Systems		
AM Keyfob Systems		
1 Channel System, 12/24Vdc, 315MHz	118C1-315AR1-ND	67.51
RF Receiver/Decoder Hybrid, 315MHz	AMHIRK-315AR3-ND	22.43
FM Keyfob Systems		
FM Handheld Transmitter, 2 switch, 315MHz	102C2-315FR1-ND	53.99
FM Handheld Transmitter, 4 switch, 315MHz	102C4-315FR1-ND	55.48
AM Radio Modules		
AM Super Heterodyne Receivers		
Super Heterodyne Receiver, 315MHz	AMRRQ3-315-ND	14.44
Super Heterodyne Receiver, 433MHz	AMRRQ3-433-ND	14.85
Super Heterodyne Receiver Module, 433MHz	QAM-RX4-433-ND◆	6.75
AM Miniature Super Regenerative Receiver		
Super Regen Receiver, Miniature, 433MHz	AMHRR30-433-ND	7.75
AM Super Regenerative Receiver Modules		
Super Regen Receiver, 315MHz	AMHRR3-315-ND	6.44
Super Regen Receiver, 433MHz	AMHRR3-433-ND	14.87
Super Regen Receiver Module, 433MHz	QAM-RX2-433-ND	4.88
4 Pin Hybrid Transmitter Modules		
Hybrid Transmitter Module, DIL Package, 315MHz	AMRT4-315-ND	6.44
Hybrid Transmitter Module, DIL Package, 433MHz	AMRT4-433-ND	7.44
FM Radio Modules		
FM Hybrid Transmitter and Receiver Modules		
FM Transmitter, DIL Package, 315MHz	FMRTFQ1-315-ND	9.38
FM Transmitter, DIL Package, 433MHz	FM-RTFQ1-433-ND◆	6.75
FM Transmitter, DIL Package, 433.92MHz	FM-RTFQ1-433SO-ND◆	9.76
FM Transmitter, SIL Package, 433MHz	FMRTFQ2-433R-ND	11.25
FM Receiver, SIL Package, 315MHz	FMRRFQ1-315-ND	15.16
FM Receiver, SIL Package, 433MHz	FMRRFQ1-433-ND◆	15.75
FM Receiver, SIL Package, 433MHz	FMRRFQ2-433-ND	19.50
FM Super Heterodyne Receiver Decoder, 433MHz	RDF1-433F-ND◆	14.86
RF KEELOQ® Evaluation Kits		
RF KEELOQ® Evaluation Kit, 315MHz	RFEVAL2-315-ND	437.50
RF KEELOQ® Evaluation Receiver	RFEVAL3-ND*	67.50
Book		
Introduction to Low Power Radio Book	BK-RADIO-ND	22.35

◆ ***RoHS Compliant*** *PCB Assembly only (RF Modules and antenna not supplied)

Wireless Modules, ICs and Components

802.15.4/Zigbee Features:

• Zigbee/802.15.4 modules utilize 2.4 GHz Direct Sequence Spread Spectrum (DSSS) • Ad Hoc mesh network (ZMN) or low power point to point or point to multipoint (LPR); Low Power (see chart) • SPI and UART interface • FCC and CE Certified for unlicensed operation.

WIT2450 Features:

• 2.4GHz Frequency Hopping Spread Spectrum (FHSS) • Auto Ranging • Low Power (see chart) • FCC and ETSI Certified for unlicensed operation • RS-232 asynch interface WIT910 Features: • 900 MHz FHSS • 20+ mile range (Line of Sight) with Omni Antenna • FCC Certified for unlicensed operation • RS-232 asynch interface

DMxxx Features:

Serial Data rates from 4.8 ~ 19.2 kbps • Mesh routing protocol for reliable communication • Wide voltage input range and low power consumption • DM1810 Modules come pre-configured for base station, router or field nodes. • DM2200 Modules are configurable as either one

Transceiver Modules

Power Output	Receive Sensitivity (dBm)	Operating Voltage (Vdc)	Frequency	Data Rate (Max. Kbps)	Features	Power Consumption Sleep/Rx/Tx	Digi-Key Part No.	Price Each	RFM Part No.
					802.15.4 / Zigbee Modules				
0 dBm	-92	3.3 ~ 5.5	2.4GHz	250	Zigbee	3µA/33mA/130mA	583-1023-ND	21.56	ZMN2430-C
0 dBm	-92	3.3 ~ 5.5	2.4GHz	250	Zigbee	3µA/33mA/130mA	583-1025-ND	21.56	ZMN2430-E
18 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee	3µA/33mA/130mA	583-1026-ND	35.00	ZMN2430HP-C
18 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee	3µA/33mA/130mA	583-1028-ND	35.00	ZMN2430HP-E
18 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee	3µA/33mA/130mA	583-1027-ND	35.00	ZMN2430HP-R
15 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee 2006 Coordinator	3µA/33mA/130mA	583-1127-ND	37.00	ZMN2430HPA-C
15 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee 2006 End Device	3µA/33mA/130mA	583-1128-ND	37.00	ZMN2430HPA-E
15 dBm	-95	3.3 ~ 5.5	2.4GHz	250	Zigbee 2006 Router	3µA/33mA/130mA	583-1129-ND	37.00	ZMN2430HPA-R
0 dBm	-92	3.3 ~ 5.5	2.4GHz	250	802.15.4 Non-Mesh SMD	25µA/25mA/30mA	583-1059-ND	22.60	LPR2400
					Proprietary RF Transceiver Modules				
10 mW	-101.5	3.1 ~ 10.0	433.92MHz	4.8	Field Node miniMESH	—/5.5mA/15.75mA	583-1031-ND	35.00	DM1810-434MN
10 mW	-100	3.1 ~ 10.0	916.5MHz	4.8	Base Station Node miniMESH	—/5.5mA/15.75mA	583-1035-ND	35.00	DM1810-916MB
10 mW	-100	3.1 ~ 10.0	916.5MHz	4.8	Field Node miniMESH	—/5.5mA/15.75mA	583-1036-ND	35.00	DM1810-916MN
10 dBm	-104	3.3 ~ 14.0	433.92MHz	9.6	VersaMESH™	—/5.5mA/30mA	583-1040-ND	60.00	DM2200-434VM
10, 18 dBm†	-93	3.3 ~ 10.0	2.4GHz	460.8	FHSS PCB Pins	50µA/40mA/90mA	583-1100-ND	259.00	WIT2410M4G
10, 18 dBm†	-93	3.3 ~ 10.0	2.4GHz	460.8	FHSS Connector Pins	50µA/40mA/90mA	583-1101-ND	259.00	WIT2410S4G
10, 18, 24 dBm†	-92	3.3 ~ 10.0	2.4GHz	460.8	FHSS	750µA/150mA/250mA	583-1106-ND	125.00	WIT2450M2
10, 20, 27, 29 dBm	-103	3.3 ~ 10.0	900MHz	172.8	FHSS TDMA	250µA/100mA/800mA	583-1107-ND	250.00	WIT910M
0-20 dBm	-108	3.3 ~ 5.5	900MHz	500	FHSS	50µA/105mA/1200mA	583-1142-ND	69.00	DNT900P
0-20 dBm	-108	3.3 ~ 5.5	900MHz	500	FHSS	50µA/105mA/1200mA	583-1143-ND	69.00	DNT900C
1, 10, 63 mW	-104	3.3 ~ 5.5	2.4GHz	500	FHSS, U.FL Coaxial Connector	50µA/105mA/300mA	583-1148-ND ***NEW!***	69.00	DNT2400P
1, 10, 63 mW	-104	3.3 ~ 5.5	2.4GHz	500	FHSS, U.FL Connector or PCB Pad	50µA/105mA/300mA	583-1149-ND ***NEW!***	69.00	DNT2400C

† Software Selectable

Bluetooth™ / WLAN

Maximum Data Rate	Bluetooth Device Class	Supply Voltage (V)	Firmware	Antenna	Connection	Digi-Key Part No.	Price Each	RFM Part No.
3 Mbps	Class 1	3.2 ~ 3.4	BT 2.0+EDR iWrap (ASCII-Controlled)	Chip Antenna	UART	583-1108-ND	67.20	WT11-A-AI
2 Mbps	—	3 ~ 3.63	802.11g Stack/UDP Client	U.FL Connection	Serial	583-1145-ND	69.00	WSN802GP
	—	3 ~ 3.63	802.11g Stack/UDP Client	U.FL Connection	Serial	583-1146-ND	69.00	WSN802GC

RX TX

Frequency (MHz)	Receive Sensitivity (dBm) Max.	Operating Voltage (Vdc)	Power Output	Data Rate (Kbps) Max.	Power Consumption Sleep/Rx/Tx	Features	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel‡		RFM Part No.
								1	10	100	Qty.	Pricing	
916.5	-106	2.2 ~ 3.7	1.5 dBm	115.2	0.7µA/3.8mA/12mA	SMD, SAW Transceiver	583-1088-1-ND	16.39	14.69	13.28	250	2277.50	TR1000
433.92	-109	2.2 ~ 3.7	0 dBm	115.2	0.7µA/3.8mA/7.5mA	SMD, SAW Transceiver	583-1089-1-ND	16.39	14.69	13.28	250	2277.50	TR3000
433.92	-111	2.2 ~ 3.7	10 dBm	115.2	200nA/4.3mA/32mA	SMD, SAW Transceiver	583-1091-1-ND	15.95	14.30	12.93	250	2217.50	TR7000
916.5	-108	2.2 ~ 3.7	10 dBm	115.2	200nA/4.3mA/32mA	SMD, SAW Transceiver	583-1092-1-ND	15.95	14.30	12.93	250	2217.50	TR8000
868 ~ 960	-112	2.1 ~ 3.6	11 dBm	100	0.20µA/3.5mA/25mA	RFIC Transceiver 32-QFN	583-1095-1-ND	4.06	3.64	3.29	3,000	2000.00/M	TRC103
2401 ~ 2527	-95	1.9 ~ 3.6	0 dBm	1 Mb/s	0.4µA/18mA/13mA	RFIC Transceiver 24-QFN	583-1136-1-ND	3.48	3.12	2.82	3,000	1710.00/M	TRC104
300 ~ 510	-112	2.1 ~ 3.6	13 dBm	200	0.1µA/2.7mA/25mA	SMD, Transceiver 32-TQFN	583-1159-1-ND ***NEW!***	4.06	3.64	3.29	3,000	2000.00/M	TRC105
433.92	—	2.2 ~ 3.7	0 dBm	115.2	0.7µA/—/7.5mA	SMD, SAW Transmitter	583-1096-1-ND	10.73	9.62	8.70	250	1622.50	TX5000
433.92	-109	2.2 ~ 3.7	—	115.2	0.7µA/3.8mA/—	SMD, SAW Receiver	583-1074-1-ND	12.33	11.05	9.99	250	1475.01	RX5000
916.5	-106	2.2 ~ 3.7	—	115.2	0.7µA/3.8mA/—	SMD, SAW Receiver	583-1075-1-ND	12.33	11.05	9.99	250	1475.01	RX6000

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Development Kits and Boards

Description	Digi-Key Part No.	Price Each	RFM Part No.
Zigbee Developer's Kit with ZMN2405HP (4), Serial Gateway, Antennas, Cables and Software	583-1021-ND◆	499.00	ZMN2405HPDK PRO
Zigbee 1mW Developer's Kit	583-1015-ND◆	299.00	ZMN2405DK
Developer's Kit for WIT2410 Module with Modems (2), Antennas, Cables and Configuration Software	583-1099-ND◆	795.00	WIT2410DK
Developer's Kit for WIT2410 Module with Modems (2), SNAP2410 10BaseT Access Point Antennas, Cables and Configuration Software	583-1102-ND◆	1795.01	WIT2410SDK
Developer's Kit for WIT2411 Module with Modems (2), Antennas, Cables and Configuration Software	583-1104-ND◆	995.00	WIT2411DK
Developer's Kit for WIT2450 Module with Modems (2), Antennas, Cables and Configuration Software	583-1007-ND	495.00	WIT2450DK
Developer's Kit for WIT910 Module with Modems (2), Antennas, Cables and Configuration Software	583-1009-ND	795.00	WIT910DK
434MHz miniMESH™ Development Kit	583-1029-ND◆	495.00	DM1810-434-DK
434MHz miniMESH Quickstart Kit	583-1033-ND◆	199.00	DM1810-434-QK
916MHz miniMESH Development Kit	583-1034-ND◆	495.00	DM1810-916-DK
916MHz miniMESH Quickstart Kit	583-1038-ND◆	199.00	DM1810-916-QK
Development Kit for DNT2400DK Module	583-1150-ND◆ ***NEW!***	359.00	DNT2400DK
433.92MHz SAW Transceiver Development Kit, TR7000 Modules, Accessories	583-1044-ND◆	200.00	DR7000-DK
868MHz TRC103 Development Kit, 2 Modules, 2 Base nodes, Accessories	583-1056-ND◆	280.00	DR-TRC103-868-DK
915MHz TRC103 Development Kit, 2 Modules, 2 Base nodes, Accessories	583-1057-ND◆	280.00	DR-TRC103-915-DK
2.4GHz TRC104 Development Kit, 2 Modules, Antennas, Cables, and Configuration Software	583-1137-ND◆	280.00	DR-TRC104-2400-DK
303.325 ~ 307.3MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1151-ND◆ ***NEW!***	280.00	DR-TRC105-304-DK
310 ~ 319.5MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1152-ND◆ ***NEW!***	280.00	DR-TRC105-315-DK
345MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1153-ND◆ ***NEW!***	280.00	DR-TRC105-345-DK
372MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1154-ND◆ ***NEW!***	280.00	DR-TRC105-372-DK
390MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1155-ND◆ ***NEW!***	280.00	DR-TRC105-390-DK
402 ~ 407.3MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1156-ND◆ ***NEW!***	280.00	DR-TRC105-403-DK
418 ~ 434.79MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1157-ND◆ ***NEW!***	280.00	DR-TRC105-434-DK
450MHz TRC105 Development Kit, 4 Boards, 2 Antennas, 2 Power Supplies, Accessories	583-1158-ND◆ ***NEW!***	280.00	DR-TRC105-450-DK
900MHz FHSS Transceiver Module with I/O Development Kit for DNT900	583-1144-ND◆	359.00	DNT900DK
802.11g Development Kit for WSN802G with Router	583-1147-ND◆	199.00	WSN802GDK-A

◆ ***RoHS Compliant***

SAW Filters

Digi-Reel® RoHS

Nominal Frequency (MHz)	Insertion Loss (Typical)	Bandwidth (Typical)	Operating Temperature (°C)	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Qty.	Pricing	RFM Part No.
82.20	3 dB	±25kHz	-20 ~ 70	TDMA IS-54 / CDPD IF	583-1064-1-ND	12.88	11.55	10.44	1,000	7680.00	PX1004
403.5	1.6 dB	7.5MHz	-10 ~ 60	402 ~ 405 MHz Band RF Front End	583-1065-1-ND	2.58	2.32	2.10	500	685.00	RF1419D
433.92	2.3 dB	650kHz	-40 ~ 105	Front End for Receivers under ETSI I-ETS 300 220 (Europe)	583-1067-1-ND	1.33	1.20	1.09	500	355.00	RF3404E
71	6 dB	±140kHz	-40 ~ 85	Designed for GSM BTS Receiver IF Applications	583-1141-1-ND	34.80	31.20	28.20	500	12250.02	SF1081A-1
170.6	8 dB max.	90kHz min.	-10 ~ 85	Designed for GSM BTS Receiver IF Applications	583-1078-1-ND	14.38	12.90	11.66	1,000	11400.01	SF1088A
1575.42	2.68 dB	15.3MHz	-40 ~ 85	Front End Filter for GPS Applications	583-1085-1-ND	2.44	2.19	1.98	500	910.00	SF1186B-2
280	8.3 dB	19.8MHz	-10 ~ 85	Designed for WLAN IF Applications	583-1086-1-ND	4.38	3.93	3.55	500	1220.00	SF1189B-1
930.5	4.5 dB	4MHz	-20 ~ 70	Designed for Pager Applications	583-1087-1-ND	2.67	2.40	2.17	1,000	1990.00	SF2008D

‡ For Tape and Reel part number, change 1-ND to 2-ND.

SAW Resonators

Digi-Reel® RoHS

Nominal Frequency (MHz)	Insertion Loss (Typical)	Quality Factor Loaded Q 50Ω	Operating Temperature (°C)	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 500	RFM Part No.
315	1.6 dB	1350	-40 ~ 105	Designed for RKE Transmitters under US FCC Part 15, Canada under DoC RSS-210	583-1070-1-ND	1.22	1.10	.99	325.00	RO3073E
433.92	1.5 dB	1458	-40 ~ 85	Designed for ETSI I-ETS 300 220 (Europe) and FTZ 17 TR 2100 (Germany)	583-1071-1-ND	1.28	1.15	1.04	340.00	RO3101A
	1.4 dB	1228	-40 ~ 105	Designed for ETSI I-ETS 300 220 (Europe) and FTZ 17 TR 2100 (Germany)	583-1072-1-ND	1.22	1.10	.99	325.00	RO3101E
916.5	1.2 dB	780	-40 ~ 125	Designed for Remote Control and Data Link Transmitters under US FCC Part 15	583-1073-1-ND	1.33	1.20	1.09	355.00	RO3144E

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RFMD RF Products

Fig. 1

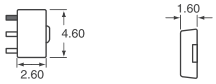

Fig. 2

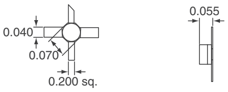

Fig. 3

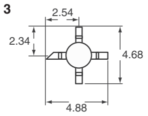

Fig. 4

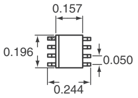

Fig. 5

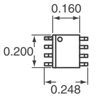

Fig. 6

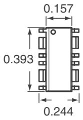

Fig. 7

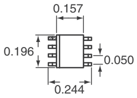

Fig. 8

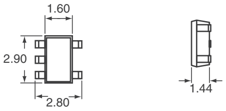

Fig. 9

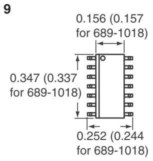

Fig. 10

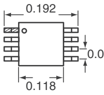

Fig. 11

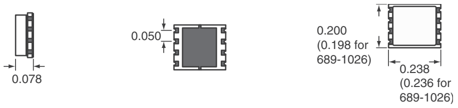

Fig. 12

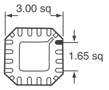

Fig. 13

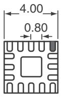

Fig. 14

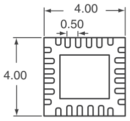

Fig.	Frequency (MHz)	Gain (dB)	Noise Figure (dB)	P1dB (dBm)	OIP3 (dBm)	Vcc/Icc (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		RFMD Part No.
									1	25	100		Qty.	Pricing	
GaAs HBT Gain Block Amplifiers															
1	DC ~ 6000	20.0	3.5	18.0	32.0	6.0/65	SOT-89	689-1020-1-ND	3.40	2.60	2.27	689-1020-2-ND	750	865.69	RF3374TR7
	DC ~ 6000	13.2	4.6	16.0	28.0	6.6/65	SOT-89	689-1021-1-ND	3.40	2.60	2.27	689-1021-2-ND	750	865.69	RF3375TR7
	DC ~ 6000	22.0	2.0	11.0	24.4	4.2/35	SOT-89	689-1022-1-ND	3.40	2.60	2.27	689-1022-2-ND	750	865.69	RF3376TR7
	DC ~ 6000	15.5	3.0	13.0	25.5	4.5/40	SOT-89	689-1023-1-ND	3.40	2.60	2.27	689-1023-2-ND	750	865.69	RF3377TR7
	DC ~ 6000	12.0	3.7	13.0	26.0	4.8/40	SOT-89	689-1024-1-ND	3.40	2.60	2.27	689-1024-2-ND	750	865.69	RF3378TR7
InGaP HBT Gain Block Amplifiers															
2	DC ~ 12000	13.0	5.1	13.0	27.1	3.9/50	4-Micro-X	689-1000-1-ND	11.34	9.72	8.10	689-1000-2-ND	1,000	4309.20	NBB-300-T1
	DC ~ 12000	12.5	4.9	13.8	24.0	5.0/50	4-Micro-X	689-1001-1-ND	11.34	9.72	8.10	689-1001-2-ND	1,000	4309.20	NBB-310-T1
	DC ~ 8000	16.5	4.3	13.0	28.1	3.9/47	4-Micro-X	689-1002-1-ND	11.34	9.72	8.10	689-1002-2-ND	1,000	4309.20	NBB-400T1
3	DC ~ 10000	10.7	5.0	12.6	27.9	4.6/50	4-Micro-X	689-1004-1-ND	3.44	2.63	2.30	689-1004-2-ND	1,000	1127.50	NLB-310-T1
	DC ~ 6000	13.0	4.1	12.0	27.3	3.9/47	4-Micro-X	689-1005-1-ND	3.44	2.63	2.30	689-1005-2-ND	1,000	1127.50	NLB-400-T1
High Linearity Amplifiers															
4	1800 ~ 2500	12.0	—	31.0	40.0	3.0 ~ 6.5/350	8-SOIC	689-1006-1-ND	13.69	11.73	9.78	689-1006-2-ND	750	4032.19	RF2126TR7
5	DC ~ 2500	15.0	3.8	20.0	33.0	5.5/100	8-SOIC	689-1007-1-ND	5.46	4.34	3.78	689-1007-2-ND	750	1470.00	RF2312TR7
6	DC ~ 3000	14.3	4.9	22.0	37.0	8.5/180	CJ2BAT0	689-1009-1-ND	9.17	7.86	6.55	689-1009-2-ND	750	2701.88	RF2317TR7
1	300 ~ 3000	12.5	2.5	23.0	40.0	5.0/150	SOT-89	689-1019-1-ND	8.15	6.48	5.65	689-1019-2-ND	750	2194.50	RF3315TR7
7	450 ~ 2500	10.5	—	32.5	46.5	5 ~ 8/270	8-SOIC	689-1028-1-ND	16.42	14.07	11.73	—	—	—	RF3809TR7
4	800 ~ 2500	14.0	—	29.0	43.0	5.0/240	8-SOIC	689-1063-1-ND	13.69	11.73	9.78	689-1063-2-ND	750	4032.19	RF5187TR7
Low Noise Amplifiers															
8	150 ~ 2500	14.0	1.4	-6	4.0	3/5	SOT23-5	689-1008-1-ND	4.80	3.82	3.33	689-1008-2-ND	2,500	1574.40/M	RF2314TR7
	400 ~ 3000	15.0	1.3	-3.5	9.3	3.3/10	SOT23-5	689-1011-1-ND	1.39	1.06	.93	689-1011-2-ND	2,500	462.00/M	RF2373TR7
—	900 ~ 4000	14.0	1.3	-5	7.0	3.3/10	8-QFN	689-1012-1-ND	1.81	1.38	1.21	689-1012-2-ND	2,500	602.00/M	RF2374TR7
9	400 ~ 1100	14.0	1.8	—	4.0	5/14	14-SOIC	689-1013-1-ND	7.25	5.77	5.03	689-1013-2-ND	750	1953.00	RF2418TR7
Low Power Amplifiers															
10	12 ~ 385	48.0	5.0	—	0	2.7/13	8-MSOP	689-1017-1-ND	7.06	5.62	4.89	689-1017-2-ND	750	1900.50	RF2637TR7
Transmit / Receive Switch															
8	DC ~ 2500	—	—	27.0	39.0	3/0.5 (tx mode)	SOT23-5	689-1014-1-ND	2.35	1.80	1.57	689-1014-2-ND	2,500	728.00/M	RF2436TR7

Fig.	Frequency (MHz)	Gain (dB)	OIP3 @ 31dBm (dBm)	P1dB (dBm)	PAE @ P1dB (%)	Vcc/Icq (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		RFMD Part No.
									1	25	100		Qty.	Pricing	
Driver Amplifiers															
11	1500 ~ 2200	18	50	36	40	5 ~ 8/630	AIN	689-1026-1-ND	26.21	22.94	18.84	—	—	—	RF3806TR7
12	800 ~ 950	32	—	34†	57	3.5/200	16-QFN	689-1030-1-ND	9.38	8.04	6.70	689-1030-2-ND	2,500	3417.00/M	RF5110GTR7

† 880-915MHz

Fig.	Frequency (MHz)	Broadband Noise Floor (dBm/Hz)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	OIP3 (dBm)	Vcc/Icc (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 750	RFMD Part No.
									1	25	100			
Quadrature Modulators / Demodulators														
13	800 ~ 2500	-152.5	35	35	19	5/50	16-QFN	689-1016-1-ND	21.92	19.18	15.76	689-1016-2-ND	6832.88	RF2484TR7
9	0.1 ~ 250	—	25	30	—	3 ~ 6/10	14-SOIC	689-1018-1-ND	8.96	7.68	6.40	689-1018-2-ND	2640.00	RF2713TR7
14	800 ~ 2200	-152	40	40	20	2.7 ~ 3.3/112	24-QFN	689-1029-1-ND	5.89	4.69	4.08	689-1029-2-ND	1585.50	RF3854TR7

Description	Digi-Key Part No.	Price Each	RFMD Part No.
Evaluation Board for NBB-300	689-1055-ND	33.25	NBB-300-PCK
Evaluation Board for NBB-310	689-1056-ND	33.25	NBB-310-PCK
Evaluation Board for NBB-400	689-1057-ND	33.25	NBB-400-PCK
Evaluation Board for NLB-300	689-1059-ND	33.25	NLB-300-PCK
Evaluation Board for NLB-310	689-1060-ND	33.25	NLB-310-PCK
Evaluation Board for NLB-400	689-1061-ND	33.25	NLB-400-PCK
Evaluation Board for RF2126	689-1031-ND	168.75	RF2126PCK
Evaluation Board for RF2314	689-1033-ND	168.75	RF2314PCK
Evaluation Board for RF2360 50Ω	689-1035-ND	168.75	RF2360PCK-50OHM
Evaluation Board for RF2373	689-1036-ND	168.75	RF2373PCK-414
Evaluation Board for RF2374	689-1037-ND	168.75	RF2374PCBA-410
Evaluation Board for RF2483	689-1040-ND	168.75	RF2483PCK-410

Description	Digi-Key Part No.	Price Each	RFMD Part No.
Evaluation Board for RF2484	689-1041-ND	168.75	RF2484PCK
Evaluation Board for RF2637	689-1058-ND	168.75	RF2637PCK-410
Evaluation Board for RF2713 Demodulator	689-1062-ND	168.75	RF2713PCK-D
Evaluation Board for RF2713 Modulator	689-1042-ND	168.75	RF2713PCK-M
Evaluation Board for RF3374	689-1044-ND	33.25	RF3374PCK-410
Evaluation Board for RF3375	689-1045-ND	33.25	RF3375PCK-410
Evaluation Board for RF3376	689-1046-ND	33.25	RF3376PCK-410
Evaluation Board for RF3377	689-1047-ND	33.25	RF3377PCK-410
Evaluation Board for RF3378	689-1048-ND	33.25	RF3378PCK-410
Evaluation Board for RF3800	689-1049-ND	168.75	RF3800PCK-416
Evaluation Board for RF3807	689-1051-ND	168.75	RF3807PCK-415
Evaluation Board for RF3854	689-1053-ND	168.75	RF3854PCK-410
Evaluation Board for RF5110G	689-1054-ND	168.75	RF5110GPCK-410

Bluetooth® Modules and Accessories

Roving Networks provides solutions for virtually any Bluetooth application. Utilizing CSR's BlueCore line of Bluetooth ICs, they provide modules with a small size, low power and high performance. The modules are compliant with 1.1/1.2/2.0 Bluetooth devices, allowing for ease of use. The SuperModules (RN-24x) provide a simple ASCII interface, with no need to develop a host Bluetooth stack. The adaptors provide rapid replacement of serial cables and an auto-connect feature, removing the need to Bluetooth network setup. The data acquisition module provides a low power sensor monitor/control module, with a simple interface and command structure. WiFly modules allow simple integration of 802.11 b/g in a very low power module, providing excellent battery life.

Maximum Serial Data Rate	Device Power Class	Interface	Supply Voltage Typical (V)	Current TX Typical (mA)	Bluetooth Version	Antenna	Digi-Key Part No.	Price Each 1	10	25	Roving Networks Part No.
Bluetooth Modules											
921.6Kbps	Class 1	UART, USB, PCM	3.3	65	2.0	External	740-1006-ND	27.49	26.95	25.98	RN-21
3Mbps	Class 1	UART, USB, PCM	3.3	65	2.0	Ceramic	740-1007-ND	24.95	24.50	23.63	RN-41
1.5Mbps	Class 1	RS232	3.3	65	2.0	Ceramic	740-1034-ND ***NEW!***	45.00	40.95	39.49	RN-41-SM
921.6Kbps	Class 1	UART	3.3	40	2.0	Ceramic	740-1008-ND	69.00	53.13	51.23	RN-24S
921.6Kbps	Class 1	UART	3.3	40	2.0	External, SMA	740-1009-ND	69.00	53.13	51.23	RN-24E
Bluetooth Adaptors											
232.4Kbps	Class 1	RS232	5	65	2.0	Ceramic	740-1000-ND	79.00	—	—	RN-240M
232.4Kbps	Class 1	RS232	5	65	2.0	Ceramic	740-1001-ND	79.00	—	—	RN-240F
232.4Kbps	Class 1	RS232	5	65	2.1	Ceramic	740-1020-ND	109.00	—	—	RN-270M
232.4Kbps	Class 1	RS422	5	65	2.1	Ceramic	740-1021-ND	249.00	—	—	RN-274M
232.4Kbps	Class 1	RS232	5	50	2.0	SMA Included	740-1003-ND	199.00	—	—	RN-220XP
2Mbps	Class 1	USB	5	65	2.0	Ceramic	740-1004-ND	29.00	—	—	RN-USB-T
2Mbps	Class 1	USB	5	65	2.0	Ceramic	740-1005-ND	69.00	—	—	RN-USB-X
WiFly Modules											
1Mbps	—	UART	3.3	210 max.	—	Ceramic & U.FL	740-1028-ND	48.46	44.10	42.53	RN-131G
1Mbps	—	UART	3.3	210 max.	—	Ceramic & U.FL	740-1030-ND	99.00	90.09	86.88	RN-134
4Mbps	—	UART, SPI	3.3	140	—	Ceramic & U.FL	740-1036-ND ***NEW!***	42.00	38.22	36.86	RN-131C
4Mbps	—	UART, SPI	3.3	110	—	Ceramic & U.FL	740-1037-ND ***NEW!***	69.00	62.79	60.55	RN-121

A/D Specifications	Device Power Class	Supply Voltage Typical (V)	Current TX Typical (mA)	Bluetooth Version	Antenna	Digi-Key Part No.	Price Each	Roving Networks Part No.
Bluetooth Data Acquisition Nodes								
8-Channel, 16-bit, 3kHz Sample	Class 1	6 ~ 12	75	2.0	Ceramic	740-1011-ND	299.00	RN-800S-CB
Accessories and Kits								
Bluetooth Antenna, Stub 1", 2.4GHz, SMA Connector						740-1015-ND	5.95	RN-SMA-S
Bluetooth Antenna, 4", SMA Connector						740-1017-ND	7.95	RN-SMA-4
Antenna 2.4GHz, 4", RP-SMA Connector						740-1033-ND ***NEW!***	7.95	RN-SMA4-RP
Power Supply for Firefly™, US only						740-1018-ND	7.50	RN-PS-US
Power Supply for Firefly, International Multi-Plug						740-1019-ND	15.00	RN-PS-INT
Power Supply for Firefly, USB Cable (100mA Limit)						740-1022-ND	7.50	RN-PS-USB
Evaluation Kit for RN-131G WiFly Modules						740-1029-ND	149.00	RN-131G-EVAL
6" Coax Cable with UFL and SMA Connectors						740-1031-ND	5.00	RN-UFL-SMA6
Adapter USB 1.1 to Serial male DB-9						740-1032-ND ***NEW!***	16.95	RN-USB-SERIAL
WiFly Evaluation Kit, GSX 802.11, RN-134						740-1035-ND ***NEW!***	119.00	RN-134-K

NEW! RF Modules and Kits

Description	Supply Voltage Typical (V)	Tx Current Typical (mA)	Rx Current Typical (mA)	Antenna Connector	Digi-Key Part No.	Price Each 1	10	25	Sagrad Part No.
Module Wi-Fi 802.11 b/g/n	5.0	110	110	I-PEX	831-1005-ND	31.04	26.56	25.25	SG901-1059-5H
Module Wi-Fi 802.11 b/g/n	5.0	110	110	I-PEX	831-1006-ND	31.04	26.56	25.25	SG901-1059-5C
Module Wi-Fi 802.11 b/g/n	3.3	110	110	I-PEX	831-1007-ND	31.04	26.56	25.25	SG901-1059-3H
Module Wi-Fi 802.11 b/g/n	3.3	110	110	I-PEX	831-1008-ND	31.04	26.56	25.25	SG901-1059-3C
Module Wi-Fi 802.11 b/g	3.3	450	450	U.FL	831-1009-ND	136.50	131.25	126.00	SG901-1047
Evaluation Kit for SG901-1047					831-1004-ND	351.00	337.50	324.00	SG923-0004

RF Transceivers and Development Kits

Semtech TrueRF™ product provides high data rates up to 153.2 kbps, drop-in modules are available for multiple frequencies. Output power is programmable on both the ICs and the modules. XM12xx modules come with antennas (RPSMA).

Frequency (MHz)	Supply Voltage Typ.(V)	Current (Rx)	Modulation	Output Device Type	Power (dBm)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
TrueRF™ ICs — RoHS Compliant												
433 / 868 / 915	1.8 ~ 3.6	16mA	FSK / OOK	Wideband Transceiver	-18 ~ +17	24-QFN	SX1231IMLCT-ND† ***NEW!***	4.11	2.77	2.37	3,000	2133.00/M
433 / 868 / 915	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1203FI063CT-ND†	9.44	6.36	5.45	2,300	4900.50/M
433 / 868 / 915	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1205I074CT-ND†	9.83	6.62	5.67	2,300	5103.00/M
433 / 868 / 915	2.0 ~ 3.6	14mA	2-FSK	Transmitter	+10	24-TQFN	SX1223I073CT-ND†	3.25	2.19	1.88	3,000	1687.50/M
UHF — RoHS Compliant												
868 / 915 / 955	2.1 ~ 3.6	3mA	FSK / OOK	Receiver	—	32-TQFN	SX1210I084T-ND	3.73	2.48	2.09	—	—
868 / 915 / 955	2.1 ~ 3.6	3mA	FSK / OOK	Wideband Transceiver	-8.5 ~ 12.5	32-TQFN	SX1211I084CT-ND†	3.93	2.65	2.27	3,000	2038.50/M
300 / 510	2.1 ~ 3.6	3mA	FSK / OOK	Wideband Transceiver	-8.5 ~ 12.5	32-TQFN	SX1212IWLCT-ND† ***NEW!***	4.68	3.15	2.70	3,000	2430.00/M
315 / 434 / 868 / 915	1.8 ~ 3.7	—	FSK / OOK	Narrow/Wideband Transmitter	-18 ~ +13	24-MLPQ	SX1230I066CT-ND† ***NEW!***	2.99	2.02	1.73	3,000	1552.50/M
TrueRF Modules												
433	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC433XE1-ND	112.50	74.70	63.00	—	—
868	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC868XE1-ND	112.50	74.70	63.00	—	—
915	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC915XE1-ND	112.50	74.70	63.00	—	—
433	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C433XE1-ND	112.50	74.70	63.00	—	—
868	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C868XE1-ND	112.50	74.70	63.00	—	—
915	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C915XE1-ND	112.50	74.70	63.00	—	—
Kits												
Evaluation Starter Kit for the XE1203, 433MHz							XE1203SKC433XE2-ND	350.00	—	—	—	—
Evaluation Starter Kit for the XE1203, 868MHz							XE1203SKC868XE2-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1203, 915MHz							XE1203SKC915XE2-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205, 433MHz							XE1205SKC433XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205, 868MHz							XE1205SKC868XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205, 915MHz							XE1205SKC915XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the SX1211, 868MHz							SX1211-11SKA868-ND◆	70.00	—	—	—	—
Evaluation Starter Kit for the XE1223, 433MHz							SX1223SK433-ND◆	280.00	—	—	—	—
Evaluation Starter Kit for the XE1223, 868MHz							SX1223SK868-ND◆	280.00	—	—	—	—
Evaluation Starter Kit for the XE1223, 915MHz							SX1223SK915-ND◆	280.00	—	—	—	—
Evaluation Board Transmitter for the SX1230, 868MHz							SM1230E868-ND ***NEW!***	63.00	—	—	—	—
Evaluation Kit PICTAIL for the SX1211, 915MHz							SM1211E915TOPIC-ND ***NEW!***	96.60	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SEMTECH CODECs and Data Acquisitions

CODECs

Codecs feature a 16-bit Sigma-Delta ADC and 16-bit PWM DAC, operating down to 1.8V in either a TSSOP or Chip-Scale package.
Data Acquisition features the unique ZoomingADC™ technology, includes low-power micro-controller based sensor interface.

ADC	SNR (Fsync=20kHz)	THD (Fsync=20kHz, 1/4 FS)	Supply Voltage (V)	Sampling Rate (kHz)	DAC	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡	
								1	25	100	Qty.	Pricing
16-bit Σ Δ	78	0.5	1.8	4~48	16-bit PWM	20-TSSOP	XE3005I033CT-ND	4.55	3.07	2.63	2,500	2362.50/M
16-bit Σ Δ	78	0.5	1.8	4~48	16-bit PWM	20-UCSP	XE3005I064CT-ND	4.26	2.87	2.46	2,000	2214.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Data Acquisition with ZoomingADC™

MCU MIPS	Max Speed CPU (MHz)	RAM (bytes)	Supply Voltage Min. / Max.	MTP (Multiple time Programmable ROM) KB	Temperature	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	25	100	Qty.	Pricing
RoHS Compliant												
2	4	520	2.4 / 5.5	22	-40°C ~ 85°C	44-LQFP	XE8801AMI027LF-ND	14.28	9.48	8.00	—	—
2	4	1,032	2.4 / 5.5	22	-40°C ~ 85°C	100-LQFP	XE8802MI035LF-ND	22.88	15.19	12.81	—	—
2	5	520	2.4 / 5.5	22	-40°C ~ 85°C	64-LQFP	XE8805AMI028LF-ND	15.48	10.28	8.67	—	—
5	5	520	2.4 / 5.5	22	-40°C ~ 85°C	32-TQFP	XE8807AMI026CT-ND†	9.83	6.62	5.67	2,000	5103.00/M
—	—	—	2.4 / 5.5	—	-40°C ~ 85°C	44-MLPG	SX8722I070LFCT-ND†	14.59	9.82	8.42	2,000	7573.50/M
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	12-MLPD	SX8723E083CT-ND†	5.63	3.74	3.15	—	—
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	12-MLPD	SX8723E083TDTCT-ND† ***NEW!***	5.85	3.94	3.38	1,000	3037.50
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	16-MLPQ	SX8724E082CT-ND†	6.88	4.57	3.85	3,000	3712.50/M
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	16-MLPQ	SX8724E082TDTCT-ND† ***NEW!***	7.15	4.82	4.13	1,000	3712.50
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	12-MLPD	SX8725E083CT-ND†	4.48	2.98	2.51	3,000	2416.50/M
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	12-MLPD	SX8725E083TDTCT-ND† ***NEW!***	4.65	3.14	2.69	1,000	2416.50
Evaluation and Programming Boards												
Evaluation Board for the XE8801							XE8000EV101-ND	173.60	—	—	—	—
Evaluation Board for the XE8805							XE8000EV104-ND	173.60	—	—	—	—
Evaluation Board for the XE8806/XE8807							XE8000EV108-ND	173.60	—	—	—	—
Evaluation Board for the XE8802							XE8000EV110-ND	246.40	—	—	—	—
Program Board and the ProStart2 Card for the XE88xx series							XE8000MP-ND	280.00	—	—	—	—
Evaluation Board for the SX8722							XE8000EV120-ND◆	112.00	—	—	—	—
Evaluation Board for the SX8723/24							XE8000EV121-ND◆	112.00	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

SILICON LABS RF Synthesizers

Silicon Laboratories' wireless solutions are the world's most integrated, robust, reliable and easiest to use wireless solutions available in the market today. By eliminating more discretes and requiring fewer external components than alternate solutions, our products empower our customers to add value-rich features and speed time to market. Best of all, we develop and design these world-class products in proven, standard CMOS process technology. **Features:** • CMOS RF synthesizers with integrated VCOs, loop filters and varactors • Low profile packages

Description	RF1 (MHz)	RF2 (MHz)	IF (MHz)	Settling Time (µs)	Input RF (MHz)	Package	Digi-Key Part No.	Price Each		Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
								1	25				
IF OUT, Lead Free, QFN	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	28-QFN	336-1170-ND◆	5.89	5.30	SI4112-D-GM	—	—	—
IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1171-ND◆	5.89	5.30	SI4112-D-GT	—	—	—
General Purpose	900 ~ 2050	750 ~ 1500	—	200§	2 ~ 26	28-QFN	336-1099-ND◆	8.73	7.86	SI4113-D-GM	—	—	—
RF1/RF2 OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1172-ND◆	8.73	7.86	SI4113-D-GT	—	—	—
General Purpose	—	750 ~ 1500	62.5 ~ 1000	200§	2 ~ 26	28-QFN	336-1103-ND◆	8.73	7.86	SI4122-D-GM	—	—	—
802.11b.g and Ism Band	—	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-QFN	336-1111-ND	8.73	7.86	SI4126-BM	—	—	—
2.3GHz/IF OUT, Lead Free	—	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	28-QFN	336-1289-5-ND◆	8.73	7.86	SI4126-F-GM	—	—	—
General Purpose	900 ~ 2050	750 ~ 1500	62.5 ~ 1000	200§	2 ~ 26	28-QFN	336-1113-ND◆	10.89	9.80	SI4133-BM	336-1116-ND	225.00	SI4133M-EVB
RF1/RF2/IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1177-ND◆	10.89	9.80	SI4133-D-GT	336-1557-ND	225.00	SI4133-EVB
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-QFN	336-1178-ND◆	10.89	9.80	SI4136-F-GM	336-1558-ND	225.00	SI4136-EVB
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	24-TSSOP	336-1291-5-ND◆	10.89	9.80	SI4136-F-GT	336-1119-ND	225.00	SI4136M-EVB

◆ ***RoHS Compliant*** § For a 200kHz update rate † For update rates > 500kHz

NEW! EZRadio® ISM Band ICs

The Silicon Labs EZRadio family of fully integrated, low-power, low data rate, low-cost ICs is designed to meet the needs of OEMs developing ISM band mesh network applications for both consumer and industrial monitoring and control. EZRadio ISM band receiver, transmitter and transceiver products support proprietary and de facto standard point-to-point, star and mesh networks, as well as complex, standards-based mesh network applications.

Description	FSK (kbps)	Supply Voltage (V)	Idle Current (mA)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.
						1	25	100	
TX	100	1.8 ~ 3.6	0.010	14-SOIC	336-1974-5-ND	2.41	2.28	2.13	SI4010-B1-GS
TX	100	1.8 ~ 3.6	0.010	10-MSOP	336-1973-5-ND	2.28	2.15	2.01	SI4010-B1-GT
TX	100	1.8 ~ 3.6	0.7	10-MSOP	336-1975-5-ND	2.41	2.28	2.13	SI4012-B1-GT
TX	256	2.2 ~ 5.4	1.5	16-TSSOP	336-1621-5-ND	2.01	1.89	1.83	SI4020-I1-FT
TX	115	2.2 ~ 5.4	1.5	16-TSSOP	336-1622-5-ND	1.73	1.64	1.59	SI4021-A1-FT
TX	115	2.2 ~ 3.8	0.5	16-TSSOP	336-1623-5-ND	1.63	1.54	1.44	SI4022-A1-FT
RX	10	2.7 ~ 3.6	—	20-VQRN	336-1976-5-ND	1.87	1.76	1.65	SI4311-B10-GM
RX	—	2.7 ~ 3.6	—	20-VQRN	336-1977-5-ND	1.87	1.76	1.65	SI4312-B10-GM
RX	256	1.8 ~ 3.6	—	20-VQRN	336-1980-5-ND	2.53	2.39	2.24	SI4313-B1-FM
RX	256	2.2 ~ 5.4	3.0	16-TSSOP	336-1627-5-ND	2.53	2.39	2.31	SI4320-J1-FT
TRX	256	2.2 ~ 5.4	3.0	16-TSSOP	336-1630-5-ND	3.26	3.08	2.98	SI4420-D1-FT
TRX	115	2.2 ~ 3.8	0.6	16-TSSOP	336-1631-5-ND	3.03	2.85	2.76	SI4421-A1-FT
TRX	256	2.2 ~ 3.8	0.6	16-TSSOP	336-1737-5-ND	3.03	2.85	2.76	SI4421-A0-FT
Kits									
Si4010 Simplified Key Fob Demo Kit					336-1978-ND	24.99	—	—	4010-DASKF_434
Si4010 Wireless Automated Control Development Kit					336-1979-ND	150.00	—	—	4010-DKKF_434
Si4010 Key Fob Demo with AES Capability					336-1981-ND	49.99	—	—	4010-DAAKF_434
Si4311 RF Receiver Demo Board					336-1982-ND	24.99	—	—	4311-DK1
Si4312 RF Receiver Demo Board					336-1983-ND	24.99	—	—	4312-DK1
Si4313 Receiver Demo Board					336-1984-ND	50.00	—	—	4313-T-B1 B ANY
ISM Development Kit 3					336-1736-ND	373.00	—	—	ISM-DK3

NEW! EZRadioPRO®

The Si4330 is a low power, high sensitive, OOK/FSK and GFSK receiver. The receiver, a member of the EZRadioPRO family, is for use in applications requiring FCC or ETSI conformance for unlicensed use between 240MHz and 960MHz

Description	FSK/ GFSK (kbps)	OOK (kbps)	Supply Voltage (V)	RX Current (mA)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.
							1	25	100	
RX	256	40	1.8 ~ 3.6	18.5	20-QFN	336-1629-5-ND	2.91	2.74	2.66	SI4330-B1-FM

Broadcast Products FM Radio Tuners

Features: • Broadcast FM Radio Tuners for portable applications • Highly integrated, globally compliant and easy to implement • Best-in-class-performance

Description	Digi-Key Part No.	Price Each			Silicon Labs Part No.
		1	25	100	
RoHS Compliant					
CMOS digital FM tuner with integrated crystal oscillator support	336-1378-ND	11.00	7.03	5.00	SI4700-B15-GM
Includes digital processor for the European Radio Data System (RDS) and the US Radio Broadcast Data System (RBDS)	336-1379-ND	11.00	8.09	5.75	SI4701-B15-GM
Broadcast FM Radio Tuner for Portable Applications, 20-QFN	336-1738-ND ***NEW!***	11.00	6.00	5.00	SI4702-C19-GM
Broadcast FM Radio Tuner for Portable Applications, 20-QFN	336-1739-ND ***NEW!***	11.00	6.90	5.75	SI4703-C19-GM
Enhanced Broadcast FM Radio Receiver for Portable Applications, 20-QFN	336-1740-ND ***NEW!***	11.00	6.05	5.75	SI4705-B20-GM
FM Radio Transmitter for Portable Applications, 20-QFN	336-1741-ND ***NEW!***	11.00	6.48	5.75	SI4710-B30-GM
FM Radio Transmitter with Receiver Power Scan, 20-QFN	336-1742-ND ***NEW!***	11.00	5.97	5.75	SI4713-B30-GM
Evaluation Board					
Evaluation Board for SI4701	336-1381-ND	125.00	—	—	SI4701-B-EVB

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

SIRENZA MICRODEVICES

RF Amplifiers and VCOs

Digi-Reel® RoHS COMPLIANT

Sirenza Product by Series: • **SBA, SBB, SBF and SBW Series**: InGaP high linearity Medium Power Driver amps (Gain Blocks) • **SGA Series**: SiGe general purpose gain blocks (Medium Power) • **SGL Series**: SiGe low noise amplifiers • **SHF Series**: GaAs HFET discrete transistors • **SPA Series**: GaAs Class A power amplifiers • **STA Series**: InGaP Class AB power amplifier for WLAN and WiMAX applications • **STQ Series**: Direct Quadrature Demodulator • **SXB Series**: InGaP/GaAs HBT power amplifier • **SZA Series**: InGaP 5V Class AB power amplifier for WLAN and WiMAX • **VCO790 Series**: Wideband 5V VCOs

Fig. 1

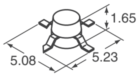

Fig. 2

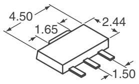

Fig. 3

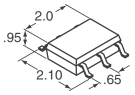

Fig. 4

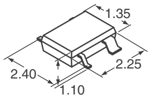

Fig. 5

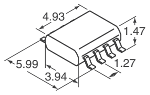

Fig. 6

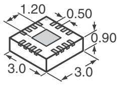

Fig. 7

Exposed Thermal Pad Zone: 3.0 sq.

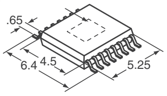

Fig. 8

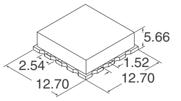

Fig. 9

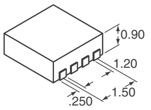

Fig.	Gain dB (@1.95GHz)	P1dB dBm (Typical)	Bandwidth (MHz)	VD V (Typical)	ID mA (Typical)	Size	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Sirenza Microdevices Part No.
1	14.2	19.0	5000	5	80	SOT-86	599-1000-1-ND	5.58	4.44	3.87	599-1000-2-ND	1,000	2002.00	SBA-4086Z
	17.2	19.5	5000	4.9	80	SOT-86	599-1002-1-ND	5.34	4.25	3.70	599-1002-2-ND	1,000	2373.80	SBA-5086Z
	9.3	6.7	5000	2.2	20	SOT-86	599-1013-1-ND	2.69	2.05	1.80	599-1013-2-ND	3,000	1024.00/M	SGA-2186Z
	14.0	7.0	5000	2.2	20	SOT-86	599-1015-1-ND	2.69	2.05	1.80	599-1015-2-ND	3,000	1024.00/M	SGA-2286Z
	15.3	7.5	2800	2.7	20	SOT-86	599-1017-1-ND	2.69	2.05	1.80	599-1017-2-ND	3,000	1024.00/M	SGA-2386Z
	16.7	7.5	5000	2.7	20	SOT-86	599-1019-1-ND	2.69	2.05	1.80	599-1019-2-ND	3,000	1024.00/M	SGA-2486Z
	13.0	11.3	5000	2.6	35	SOT-86	599-1021-1-ND	3.15	2.40	2.10	599-1021-2-ND	3,000	1392.00/M	SGA-3286Z
	15.3	10.7	5000	2.6	35	SOT-86	599-1023-1-ND	3.65	2.79	2.44	599-1023-2-ND	3,000	1175.00/M	SGA-3386Z
	18.0	12.5	5000	2.9	35	SOT-86	599-1025-1-ND	3.65	2.79	2.44	599-1025-2-ND	3,000	1175.00/M	SGA-3486Z
	20.0	12.5	5000	3.25	35	SOT-86	599-1027-1-ND	3.65	2.79	2.44	599-1027-2-ND	3,000	1175.00/M	SGA-3586Z
	9.2	12.4	5000	3.2	45	SOT-86	599-1029-1-ND	3.65	2.79	2.44	599-1029-2-ND	3,000	1175.00/M	SGA-4186Z
	12.0	13.0	5000	3.2	45	SOT-86	599-1031-1-ND	3.65	2.79	2.44	599-1031-2-ND	3,000	1175.00/M	SGA-4286Z
	14.6	13.0	4500	3.2	45	SOT-86	599-1033-1-ND	3.65	2.79	2.44	599-1033-2-ND	3,000	1175.00/M	SGA-4386Z
	15.9	12.8	4500	3.2	45	SOT-86	599-1035-1-ND	3.65	2.79	2.44	599-1035-2-ND	3,000	1175.00/M	SGA-4486Z
	17.9	13.7	4000	3.6	45	SOT-86	599-1037-1-ND	4.33	3.45	3.00	599-1037-2-ND	3,000	1665.00/M	SGA-4586Z
	12.0	14.0	5000	3.5	60	SOT-86	599-1038-1-ND	4.33	3.45	3.00	599-1038-2-ND	3,000	1665.00/M	SGA-5286Z
	14.9	14.7	5000	3.6	60	SOT-86	599-1040-1-ND	4.33	3.45	3.00	599-1040-2-ND	3,000	1665.00/M	SGA-5386Z
	16.3	15.0	3500	3.5	60	SOT-86	599-1042-1-ND	4.33	3.45	3.00	599-1042-2-ND	3,000	1665.00/M	SGA-5486Z
	18.7	15.8	4000	3.9	60	SOT-86	599-1044-1-ND	4.33	3.45	3.00	599-1044-2-ND	3,000	1665.00/M	SGA-5586Z
	12.4	17.8	5500	4	75	SOT-86	599-1046-1-ND	4.33	3.45	3.00	599-1046-2-ND	3,000	1665.00/M	SGA-6286Z
	13.5	19.0	5000	4.9	80	SOT-86	599-1048-1-ND	4.33	3.45	3.00	599-1048-2-ND	3,000	1665.00/M	SGA-6386Z
	16.4	18.5	4500	5.1	75	SOT-86	599-1050-1-ND	4.33	3.45	3.00	599-1050-2-ND	3,000	1665.00/M	SGA-6486Z
	18.4	19.0	2500	4.9	80	SOT-86	599-1052-1-ND	4.33	3.45	3.00	599-1052-2-ND	3,000	1665.00/M	SGA-6586Z
2	14.6	19.0	4400	5	80	SOT-89	599-1001-1-ND	5.58	4.44	3.87	599-1001-2-ND	1,000	2002.00	SBA-4089Z
	18.0	19.5	4400	4.9	80	SOT-89	599-1003-1-ND	5.58	4.44	3.87	599-1003-2-ND	1,000	2002.00	SBA-5089Z
	15.5†	19.0	50 ~ 850	5	90	SOT-89	599-1004-1-ND	7.14	5.68	4.95	599-1004-2-ND	1,000	3037.80	SBB-1089Z
	20.0†	21.0	50 ~ 850	5	90	SOT-89	599-1005-1-ND	7.14	5.68	4.95	599-1005-2-ND	1,000	3037.80	SBB-2089Z
	15.5	19.5	50 ~ 6000	5	80	SOT-89	599-1006-1-ND	6.24	4.96	4.32	599-1006-2-ND	1,000	2656.00	SBB-4089Z
	20.0	20.5	50 ~ 6000	5	75	SOT-89	599-1007-1-ND	6.24	4.96	4.32	599-1007-2-ND	1,000	2656.00	SBB-5089Z
	14.7‡	19.9	500	4.9	90	SOT-89	599-1008-1-ND	7.80	6.20	5.40	599-1008-2-ND	1,000	2800.00	SBF-4089Z
	19.5‡	20.7	500	4.9	90	SOT-89	599-1009-1-ND	7.80	6.20	5.40	599-1009-2-ND	1,000	2800.00	SBF-5089Z
	18.0∆	19.4	6000	4.9	80	SOT-89	599-1010-1-ND	11.59	9.93	8.28	599-1010-2-ND	1,000	4469.00	SBW-5089Z
	12.7	14.4	5000	3.5	60	SOT-89	599-1039-1-ND	4.07	3.11	2.72	599-1039-2-ND	3,000	1552.00/M	SGA-5289Z
	15.4	15.0	4500	3.6	60	SOT-89	599-1041-1-ND	3.61	2.76	2.41	599-1041-2-ND	3,000	1552.00/M	SGA-5389Z
	17.9	14.6	4000	3.3	60	SOT-89	599-1043-1-ND	4.07	3.11	2.72	599-1043-2-ND	3,000	1310.00/M	SGA-5489Z
	20.8	16.2	4000	3.9	60	SOT-89	599-1045-1-ND	4.07	3.11	2.72	599-1045-2-ND	3,000	1310.00/M	SGA-5589Z
	12.6	17.8	4500	4	75	SOT-89	599-1047-1-ND	4.07	3.11	2.72	599-1047-2-ND	3,000	1310.00/M	SGA-6289Z
	14.0	18.9	4500	4.9	80	SOT-89	599-1049-1-ND	4.07	3.11	2.72	599-1049-2-ND	3,000	1310.00/M	SGA-6389Z
	17.5	18.7	3500	5.1	75	SOT-89	599-1051-1-ND	4.07	3.11	2.72	599-1051-2-ND	3,000	1310.00/M	SGA-6489Z
	20.0	19.0	4000	4.9	80	SOT-89	599-1053-1-ND	4.07	3.11	2.72	599-1053-2-ND	3,000	1310.00/M	SGA-6589Z
	18.5	20.0	3000	5	115	SOT-89	599-1054-1-ND	4.25	3.38	2.95	599-1054-2-ND	3,000	1635.00/M	SGA-7489Z
	12.2	25.5	3000	5	179	SOT-89	599-1056-1-ND	4.25	3.38	2.95	—	—	—	SGA-9189Z
	12.0	27.5	3000	5	292	SOT-89	599-1057-1-ND	5.58	4.44	3.87	599-1057-2-ND	3,000	2145.00/M	SGA-9289Z
	14.6	30.2	50 ~ 6000	8 max.	280 max.	SOT-89	599-1081-1-ND	11.50	10.23	8.10	599-1081-2-ND	1,000	6816.00	SHF-0289Z
	17.0	24.2	5 ~ 2500	5.2	135	SOT-89	599-1068-1-ND	7.80	6.20	5.40	599-1068-2-ND	1,000	3320.00	SXB-2089Z
	15.0	27.5	400 ~ 2500	5	260	SOT-89	599-1069-1-ND	12.01	10.29	8.58	—	—	—	SXB-4089Z
3	17.2	2.3	5000	2.5	11	SOT-363	599-1011-1-ND	2.44	1.86	1.63	599-1011-2-ND	3,000	928.00/M	SGA-0363Z
	9.8	6.2	5000	2.2	20	SOT-363	599-1012-1-ND	2.44	1.86	1.63	599-1012-2-ND	3,000	928.00/M	SGA-2163Z
	13.5	6.1	5000	2.2	20	SOT-363	599-1014-1-ND	2.44	1.86	1.63	599-1014-2-ND	3,000	928.00/M	SGA-2263Z
	16.1	7.2	5000	2.7	20	SOT-363	599-1016-1-ND	2.44	1.86	1.63	599-1016-2-ND	3,000	928.00/M	SGA-2363Z
	17.1	7.2	5000	2.7	20	SOT-363	599-1018-1-ND	2.44	1.86	1.63	599-1018-2-ND	3,000	928.00/M	SGA-2463Z
	13.6	10.9	5500	2.6	35	SOT-363	599-1020-1-ND	2.90	2.21	1.94	599-1020-2-ND	3,000	1104.00/M	SGA-3263Z
	15.9	10.5	5500	2.6	35	SOT-363	599-1022-1-ND	2.90	2.21	1.94	599-1022-2-ND	3,000	1104.00/M	SGA-3363Z
	19.0	11.0	5000	2.9	35	SOT-363	599-1024-1-ND	2.90	2.21	1.94	599-1024-2-ND	3,000	1104.00/M	SGA-3463Z
	21.5	12.5	5000	3.25	35	SOT-363	599-1026-1-ND	2.90	2.21	1.94	599-1026-2-ND	3,000	1104.00/M	SGA-3563Z
	9.7	12.1	5000	3.2	45	SOT-363	599-1028-1-ND	2.90	2.21	1.94	599-1028-2-ND	3,000	1104.00/M	SGA-4163Z
	12.7	12.5	3500	3.2	45	SOT-363	599-1030-1-ND	2.90	2.21	1.94	599-1030-2-ND	3,000	1104.00/M	SGA-4263Z
	14.8	13.0	4000	3.2	45	SOT-363	599-1032-1-ND	2.90	2.21	1.94	599-1032-2-ND	3,000	1104.00/M	SGA-4363Z
	17.0	12.3	3500	3.2	45	SOT-363	599-1034-1-ND	2.90	2.21	1.94	599-1034-2-ND	3,000	1104.00/M	SGA-4463Z
	20.2	12.8	2500	3.6	45	SOT-363	599-1036-1-ND	4.07	3.11	2.72	599-1036-2-ND	3,000	1310.00/M	SGA-4563Z
	14.1§	5.6	100 ~ 1300	3	12	SOT-363	599-1058-1-ND	2.39	1.83	1.60	599-1058-2-ND	3,000	912.00/M	SGL-0163Z
	13.4	5.5	1400 ~ 2500	3	12.5	SOT-363	599-1059-1-ND	2.81	2.15	1.88	—	—	—	SGL-0263Z
4	16.5	9.0	6000	3	12	SOT-343	599-1055-1-ND	1.38	1.06	.93	599-1055-2-ND	3,000	560.00/M	SGA-8343Z
5	24.0	29.5	2200	5	400	8-SOIC	599-1065-1-ND	20.16	17.64	14.49	599-1065-2-ND	500	6300.00	SPA-2318Z
6	29.5	26.5	4900 ~ 5900	3.3	165	16-QFN	599-1066-1-ND	4.49	3.57	3.11	599-1066-2-ND	3,000	1725.00/M	STA-6033Z
	25.5	29.5	2000 ~ 2700	5	300	16-QFN	599-1070-1-ND	7.22	5.74	5.00	599-1070-2-ND	3,000	2775.00/M	SZA-2044Z
	25.0	30.0	2700 ~ 3800	5	220	16-QFN	599-1071-1-ND	9.40	7.48	6.51	599-1071-2-ND	3,000	3615.00/M	SZA-3044Z
	29.5	29.5	4900 ~ 5900	5	220	16-QFN	599-1072-1-ND	9.32	7.41	6.46	599-1072-2-ND	3,000	3585.00/M	SZA-5044Z
	18.5	24.9	5100 ~ 5900	5	165	16-QFN	599-1073-1-ND	9.44	7.51	6.54	599-1073-2-ND	3,000	3630.00/M	SZA-6044Z
7	—	—	700 ~ 2500	5	73	16-TSSOP	599-1067-1-ND	15.09	12.93	10.78	599-1067-2-ND	1,000	6896.00	STQ-2016Z
	—	116 dBμV	50 ~ 870	6	200	16-TSSOP	599-1080-1-ND	9.59	7.63	6.65	—	—	—	CGA-0116Z
8	—	6.0	1500	5	25	16-SMD	599-1079-ND•	32.54	30.30	—	—	—	—	VCO790-1500TY
9	28.5◊	5.5	5 ~ 4000	2.7	9	8-QFN	599-1078-1-ND	1.94	1.49	1.31	599-1078-2-ND	3,000	787.50/M	SGL-0622Z

† 400MHz ‡ 500MHz ∆ 3GHz § 1GHz • Bulk ◊ 1.57GHz

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

skyetek Developer Kits and Modules

SkyeModule™ M1-Mini

SkyeModule M1-mini provides a low power, high performance, and cost-effective platform designed to enable any device with RFID reader technology. The M1-mini is the world's smallest, self-contained OEM module.

Features: • Multi-protocol, 13.56MHz ±7kHz • Smaller than a US quarter • Effective Range: 5.8cm ~ 8.5cm • Internal (on-board) antenna • 50Ω port for external antenna • Host-interface options: TTL Serial, I2C and SPI • Operates from 3.2V ~ 6.0V; and as low as 50µA

Benefits: • World's smallest form factor • Simple and intuitive API for fast integration/time to market • Low power consumption and high performance

Target Applications: • Medical Equipment • Pharmaceuticals • Kiosks • Printers • Handhelds • Ticketing • Industrial Equipment

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M1-Mini Module with TTL Interface	753-1009-ND	86.25	SM-MN-00-HF-RC
M1-Mini Module with I2C Interface	753-1010-ND	86.25	SM-MN-00-HF-RCI2C
M1-Mini Module with SPI Interface	753-1011-ND	86.25	SM-MN-00-HF-RCSPI

SkyeModule™ M2

SkyeModule M2, the industry's most secure multi-protocol embedded HF RFID reader module for OEMs, was designed specifically for flexibility and encrypted authentication across a range of vertical markets.

Features: • Multi-protocol, 13.56MHz ±7kHz • Effective Range: 3cm ~ 16cm • Robust security libraries (DES, 3DES, AES, etc.) • Host-interface options: RS-232, I2C, SPI and USB • Seven programmable GPIO pins • Output power adjustable between 17 ~ 23 dBm

Benefits: • Industry leading security and best-in-class cryptographic standards • Miniscule foot print - half the size of a typical business card • Greatest tag compatibility with Tagnostic® and TagIQ™ • Superior embeddability and open, flexible architecture for investment protection

Target Applications: • Anti-counterfeiting • Contactless Payment • Patient Safety • Item-Level Inventory • Printing/Encoding • Handhelds • Patron Management

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M2 Module with CF Format	753-1012-ND	118.75	SM-M2-CF-HF
M2 Module with MH Format	753-1013-ND	118.75	SM-M2-MH-HF

SkyeModule™ M4

SkyeModule M4 is a feature-rich, easy-to-use HF RFID reader module specially designed to operate with one of the three firmware variations including: • Product Authentication • Access Control • Contactless Payment

Features: • Frequency: 13.56MHz ±7kHz • ISO 15693, ISO 1443A/B • Effective Range: 4.5cm ~ 14cm • Security libraries (DESFire, MIFARE, AES, SHA-2, KDF and PRNG) • Host-interface options: UART (TTL) • Four programmable GPIO pins

Benefits: • Industry leading security • Small foot print about the area of three standard postage stamps • Greatest tag compatibility with Tagnostic® and TagIQ™ • Sophisticated features at a ground-breaking price

Target Applications: • Anti-counterfeiting • Printing/Encoding • Handhelds

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M4 Module with Product Authentication	753-1017-ND	86.25	SM-M4-00-HF-PA
M4 Module with Access Control	753-1018-ND	86.25	SM-M4-00-HF-AC
M4 Module with Contact Payment	753-1019-ND	86.25	SM-M4-00-HF-CP

SkyeModule™ M7

SkyeModule M7 is the world's smallest, globally compliant UHF module. Its one of-a-kind combination of high performance, security, and cost/space/power efficiency makes it the industry's price performance leader.

Features: • Embedded RFID Module for OEM RFID • Smallest footprint smaller than a matchbook • 862MHz ~ 955MHz • Extensive tag compatibility and optimization with Tagnostic® and TagIQ™ • Minimal power consumption for maximum read range • Configurable output power • Simple firmware upgrades • Variety of host interfaces: TTL, USB • Simple and intuitive API

Benefits: • Meets strict regulatory requirements for worldwide operation • Superior embeddability for fast integration and time-to-market • Support for the most tags with the most features • Low power consumption • Cost-effective and highly scalable • Common hardware and software interface with other SkyeModule readers for maximum design and solution flexibility

Target Applications: • Printing/Encoding • Handheld Reading/Encoding • Item-Level Inventory Management • Patron Management • Access Control • Asset Management

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M7 Module	753-1021-ND	219.00	SM-M7-00-UF

SkyeModule™ M9

SkyeModule M9, a small globally compliant UHF RFID reader module, is a high-performance, secure, power-efficient solution for a broad range of products. Half the size of a typical business card, the module is cost-effective and highly scalable.

Features: • Frequency: 862MHz ~ 955MHz • Effective Range: 1M ~ 3.5M+ • Meets worldwide regulatory requirements • Industry's first standards-based UHF security • Host-interface options: TTL, I2C, SPI and USB • RF output power is software adjustable from 15mW ~ 500mW

Benefits: • Supports more standards and tags than any other comparable reader • Global SKU that provides regulatory pre-scan certification for all major markets • Unprecedented price-performance and TCO

Target Applications: • Anti-counterfeiting • Handheld Reading/Encoding • Printing • Patron Management • Item-Level Inventory • Supply Chain Management

Target Applications: • Inventory management • Asset tracking • Patron Management • Worker tracking

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M9 Module with CF Format	753-1014-ND	274.00	SM-M9-CF-UF-V30
M9 Module with MH Format	753-1015-ND	274.00	SM-M9-MH-UF-V30

SkyeModule™ M10

SkyeModule M10 is a fully FCC certified UHF module, with up to a 42% smaller footprint than other 1 watt embedded readers. The M10 optimizes performance through power control (10 ~ 30dBm), noise reduction technology and power management - essential for embedded applications.

Features: • UHF Band, 860 ~ 960 MHz • 30dBm maximum output power • Broad support for EPC C1G2 tag vendors • Compact size • Field upgradable firmware • Variety of host interfaces: UART (TTL), USB, SPI & I2C • API support in ANSI-C, .NET, ASCII, and Binary

Benefits: • Industry leading price performance • Designed for tem-level inventory/asset management applications • Simple integration for fast time-to-market • Common software interface with other SkyModules for maximum design flexibility • Designed for technology investment protection.

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M10 Module	753-1022-ND	351.25	SM-M10-MH-UF

SkyeModule™ Multiplexer Accessories

SkyeTek™ offers the SkyePlus™ MXH and MXU antenna multiplexers to expand the reader's capability by adding up to 8 antennas. The addition of multiplexers can help significantly reduce overall solution cost and are best used in applications that require multiple read-points.

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
HF 4-Port Multiplexer with M2 Module	753-1005-ND	164.00	SP-MX-04-HF-M2
UHF 4-Port Multiplexer with M9 Module	753-1006-ND	164.00	SP-MX-04-UF-M9
HF 8-Port Multiplexer with M2 Module	753-1007-ND	219.00	SP-MX-08-HF-M2
UHF 8-Port Multiplexer with M9 Module	753-1008-ND	219.00	SP-MX-08-UF-M9

SkyeModule™ Developer Kits

The SkyeTek™ developer kit is a complete RFID development tool kit that enables quick demonstrations, proof-of-concepts, and trials when integrating RFID into numerous applications and products. The SkyeTek developer kits includes all the components needed to get started, including: reader modules, sample tags, RFID antennas, connectors, demo software, device drivers, design guides, application notes, and more.

Description	Frequency	Size (mm) L x W x H	Effective Range	Digi-Key Part No.	Price Each	Skyetek Part No.
M1-Mini Development Kit with 1 M1 Module and 3 M1-Mini Modules (all TTL)	HF 13.56MHz	40 x 38 x 4	5.8cm ~ 8.5cm	753-1000-ND	1099.00	DK-MN-00-HF-RC
M2 Development Kit with 1 M2 CF Module and 1 M2 MH Module	HF 13.56MHz	59 x 36 x 5	3cm ~ 16cm	753-1001-ND	1099.00	DK-M2-00-HF
M4 Development Kit with 1 M4 MH Module	HF 13.56MHz	39 x 36 x 11	4.5cm ~ 14cm	753-1016-ND	989.00	DK-M4-00-HF
M7 Development Kit with 1 M7 Module	UHF 862 ~ 955MHz	53 x 36 x 9	1m ~ 2m	753-1020-ND	1099.00	DK-M7-00-UF
M9 Development Kit with 1 M9 CF Module	UHF 862 ~ 955MHz	59 x 36 x 7	1m ~ 3.5m	753-1002-ND	1319.00	DK-M9-CF-UF
M9 Development Kit with 1 M9 MH Module	UHF 862 ~ 955MHz	59 x 36 x 7	1m ~ 3.5m	753-1003-ND	1319.00	DK-M9-MH-UF
M10 Development Kit with 1 M10 MH Module	UHF 860 ~ 960 MHz	42.8 x 76.5 x 11.2	2m ~ 5m	753-1023-ND	1429.00	DK-M10-MH-UF
Item-Level Development Kit with 1 M2 CF Module and 1 M9 CF Module	HF and UHF	—	—	753-1004-ND	1539.00	DK-IL-00-00

RF Products, Analog and Mixed Signal

Amplifiers and Discrete Transistors

Dimensions in mm

Fig. 1
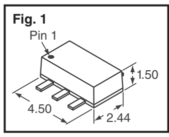

Fig. 2
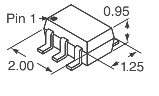

Fig. 3
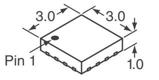

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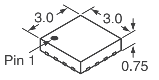

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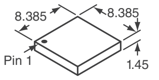

Fig. 6
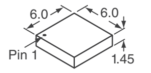

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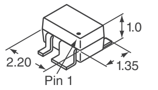

Fig. 8
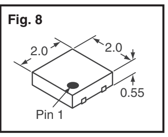

Fig.	Frequency Range (GHz)	Test Frequency (GHz)	Gain Typical (dB)	OIP3 (dBm)	P1dB (dBm)	Vcc (V)	Quiescent Current Typ. (mA)	Noise Fig. Typ. (dB)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Skyworks Part No.
General Purpose Amplifiers																	
1	LF ~ 6.0	2.00	18.0	35.0	17.0	—	70	4.2	SOT-89	863-1062-1-ND	1.52	1.38	1.27	863-1062-2-ND	1,000	1170.00	SKY65015-70LF
	LF ~ 6.0	2.00	20.0	35.0	20.0	—	100	4.5	SOT-89	863-1063-1-ND	1.63	1.56	1.41	863-1063-2-ND	3,000	1207.66/M	SKY65017-70LF
2	LF ~ 12.0	2.00	12.5	29.0	12.5	—	40	5.8	SC-88	863-1061-1-ND	1.08	.98	.95	863-1061-2-ND	1,000	880.00	SKY65013-92LF
Low Noise Amplifiers (LNAs)																	
3	700 ~ 1200†	900†	15 ~ 25	33.5	18.0	5.0‡	75	0.6§	8-QFN	863-1064-1-ND	2.67	2.06	1.90	863-1064-2-ND	3,000	1580.29/M	SKY65037-360LF
	1500 ~ 2400†	1900†	15 ~ 25	34.0	18.0	5.0‡	65	0.6§	8-QFN	863-1066-1-ND	3.10	2.33	2.12	863-1066-2-ND	3,000	1717.94/M	SKY65040-360LF
Wireless Infrastructure Power Amplifiers — Ultralinear PA Drivers																	
1	0.25 ~ 2.5	1.96	12.0	42.0	27.0	3.3, 5.0	100	4.3	SOT-89	863-1060-1-ND	3.81	3.30	3.14	863-1060-2-ND	1,000	2902.46	SKY65009-70LF
	0.25 ~ 6.0	1.00	15.0	40.0	21.5	3.0 ~ 5.0	140	2.0	SOT-89	863-1065-1-ND	2.06	1.63	1.48	863-1065-2-ND	3,000	1197.48/M	SKY65038-70LF
WLAN and ISM Power Amplifiers																	
4	0.6 ~ 1.1	0.915	40.0	36.0	29.5	3.5	250	6.5	16-QFN	863-1071-1-ND	3.03	2.20	—	863-1071-2-ND	3,000	1730.00/M	SKY65111-348LF
5	0.39 ~ 0.50	0.445	35.0	43.0	32.5	3.6	330	6.0	12-MCM	863-1072-1-ND	6.13	5.30	5.04	863-1072-2-ND	2,000	4665.98/M	SKY65116-21
6	2.4 ~ 2.5	2.442	33.5	44.0	33.5	5.0	405	5.0	20-MCM	863-1073-1-ND	3.38	2.54	2.31	863-1073-2-ND	3,000	1906.52/M	SKY65135-21
Low Noise Discrete pHEMT Transistors																	
7	450 ~ 6000†	2.4	15.5	23.5	10.5	3.0‡	20	0.65§	SC70-4	863-1067-1-ND	.67	.51	.46	863-1067-2-ND	3,000	387.50/M	SKY65050-372LF
	450 ~ 6000†	2.4	16.0	32.5	18.0	5.0‡	55	0.85§	SC70-4	863-1069-1-ND	.69	.61	.46	863-1069-2-ND	3,000	345.00/M	SKY65052-372LF
8	450 ~ 6000†	2.4	15.5	24.0	12.0	3.0‡	20	0.65§	4-QFN	863-1068-1-ND	.61	.54	.41	863-1068-2-ND	3,000	306.00/M	SKY65051-377LF
	450 ~ 6000†	2.4	16.0	32.5	18.0	5.0‡	55	0.85§	4-QFN	863-1070-1-ND	.69	.61	.46	863-1070-2-ND	3,000	345.00/M	SKY65053-377LF

† MHz ‡ VDD § Input connector loss removed from measurement with unconditionally stable matching.

ZigBee® 802.15.4 Front-End Modules (FEMs)

Dim. in mm

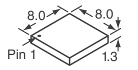

RF Frequency Range (MHz)	OP1 dB (dBm)	Rx Gain (dB)	Rx NF (dB)	Tx Gain (dB)	Supply Voltage (V)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Pricing 2,500	Skyworks Part No.
2400 ~ 2500	20/10	10.5	2.5	17/7	3.0	28-MCM	863-1074-1-ND	3.46	3.10	2.82	863-1074-2-ND	2092.02/M	SKY65336-11
2400 ~ 2500	20/10	-1.9	1.9	17/7	3.0	28-MCM	863-1075-1-ND	3.12	2.78	2.53	863-1075-2-ND	2260.01/M	SKY65337-11

Mixers, Modulators and Demodulators

Dimensions in mm

Fig.	RF Frequency (MHz)	IF Frequency (MHz)	Gain (dB)	IIP3 (dBm)	OIP3 (dBm)	IP1 dB (dBm)	NF (dB)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	T & R Pricing 2,500	Skyworks Part No.
Single Channel Mixers															
1	700 ~ 1000	40 ~ 300	9.5	27.0	36.5	13.3	8.3	20-MCM	863-1083-1-ND	10.15	9.15	8.02	863-1083-2-ND	5950.02/M	SKY73032-11
	700 ~ 1000	40 ~ 300	9.5	27.0	36.5	13.3	8.3	20-MCM	863-1085-1-ND	10.15	9.15	8.02	863-1085-2-ND	5950.02/M	SKY73070-11
Up/Down Conversion Mixer															
2	700 ~ 1000	50 ~ 300	-7.5	32.6	26.1	20.0	7.5	20-MCM	863-1084-1-ND	7.11	6.34	5.77	863-1084-2-ND	4600.02/M	SKY73062-11

Fig.	RF Input Frequency Range (MHz)	IF Input Frequency Range (MHz)	Voltage (V)	IIP2@ 900MHz (dBm)	IIP3@ 900MHz (dBm)	Voltage Conversion Gain @ 900MHz (dB)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	T & R Pricing 4,000	Skyworks Part No.
Direct Quadrature Demodulator and Direct Conversion Mixer														
3	400 ~ 3900	DC ~ 250	3.0	60	29	1	32-RFLGA	863-1082-1-ND	13.98	12.45	10.85	863-1082-2-ND	8020.02/M	SKY73012-11

Fig. 1
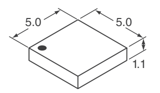

Fig. 2
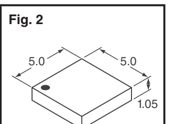

Fig. 3
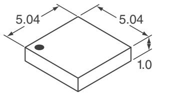

Synthesizers

Dimensions in mm

Fig.	Main Frequency (MHz)	Auxiliary Frequency (MHz)	Main Phase Noise (dBc/Hz)	Supply Voltage (V)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Skyworks Part No.
Single Fractional-N Synthesizer													
1	100 ~ 2100	—	-91 @ 1800MHz	2.7 ~ 3.3	24-QFN	863-1080-1-ND	2.99	2.58	2.46	863-1080-2-ND	3,000	2110.00/M	SKY72310-362LF
Dual Fractional-N Synthesizers													
1	100 ~ 2100	100 ~ 500	-91 @ 1800MHz	2.7 ~ 3.3	24-QFN	863-1077-1-ND	4.15	3.59	3.42	863-1077-2-ND	2,500	2925.62/M	SKY72300-362
2	100 ~ 2100	100 ~ 500	-91 @ 1800MHz	2.7 ~ 3.3	28-TSSOP	863-1076-1-ND	5.53	3.87	3.59	863-1076-2-ND	2,500	3375.00/M	SKY72300-21
	100 ~ 1000	100 ~ 500	-96 @ 950MHz	2.7 ~ 3.3	28-TSSOP	863-1078-1-ND	5.53	3.87	3.59	863-1078-2-ND	2,500	3375.00/M	SKY72301-22
	400 ~ 6100	100 ~ 1000	-80 @ 6100MHz	2.7 ~ 3.3	28-TSSOP	863-1079-1-ND	6.59	4.62	4.29	863-1079-2-ND	2,500	4027.50/M	SKY72302-21

Fig. 1
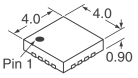

Fig. 2
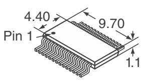

RF Diodes

Dimensions in mm

Fig.	Min. VB IR=10μA (V)	Max. CT VR=30V F=1MHz (pF)	Typ. VF @ IF=10mA (V)	Typ. RS IF=1mA F=100MHz (Ω)	Max. RS IF=10mA F=100MHz (Ω)	Max. RS IF=100mA F=100MHz (Ω)	Typ. TL IF=10mA (nS)	Nominal I-Region Thickness (μm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.
PIN Diodes for Switching Applications																
1	50	0.3	0.85	2	0.9	—	400	8	SOT-23	863-1092-1-ND	.74	.60	.56	863-1092-2-ND	442.00/M	SMP1320-004LF
1	50	0.3	0.85	2	0.9	—	400	8	SOT-23	863-1093-1-ND	.76	.62	.58	863-1093-2-ND	463.76/M	SMP1320-007LF
4	50	0.3	0.85	2	0.9	—	400	8	SOD-323	863-1094-1-ND	.76	.62	.58	863-1094-2-ND	463.76/M	SMP1320-011LF
3	50	0.3	0.85	2	0.9	—	400	8	SC-79	863-1096-1-ND	.60	.40	.38	863-1096-2-ND	300.00/M	SMP1320-079LF
1	100	0.25	0.85	3	2	—	400	15	SOT-23	863-1097-1-ND	.60	.40	.38	863-1097-2-ND	300.00/M	SMP1321-005LF
2	100	0.25	0.85	3	2	—	400	15	SC-70	863-1098-1-ND	.77	.63	.59	863-1098-2-ND	473.76/M	SMP1321-075LF
3	100	0.25	0.85	3	2	—	400	15	SC-79	863-1099-1-ND	.74	.60	.56	863-1099-2-ND	442.00/M	SMP1321-079LF
2	50	0.3§	0.88	1.7	1.2	—	100	7	SC-70	863-1102-1-ND	.77	.63	.59	863-1102-2-ND	473.76/M	SMP1340-074LF
3	50	0.3§	0.88	1.7	1.2	—	100	7	SC-79	863-1103-1-ND	.60	.40	.38	863-1103-2-ND	300.00/M	SMP1340-079LF
9	50	0.2Δ	0.89	3.5	2	—	100	10	0402	863-1145-1-ND	.53	.46	.40	863-1145-2-ND	301.71/M	SMP1345-040LF
3	50	0.2Δ	0.89	3.5	2	—	100	10	SC-79	863-1104-1-ND	.76	.62	.58	863-1104-2-ND	463.76/M	SMP1345-079LF
5	50	0.2Δ	0.89	3.5	2	—	100	10	4-LGA	863-1105-1-ND	.60	.40	.38	863-1105-2-ND	300.00/M	SMP1345-518
3	200	0.35Δ	0.8	15‡	2.8	—	1000	50	SC-79	863-1106-1-ND	.60	.40	.38	863-1106-2-ND	300.00/M	SMP1352-079LF

‡ Maximum § VR=5V Δ VR=20V

Fig. 1
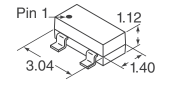

Fig. 2
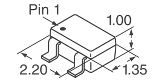

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Diodes *(Cont.)*

Digi-Reel® RoHS COMPLIANT

Fig.	Min. VB IR=10µA (V)	Max. CT VR=30V F=1MHz (pF)	Typ. VF @ IF=10mA (V)	Typ. RS IF=1mA F=100MHz (Ω)	Max. RS IF=10mA F=100MHz (Ω)	Max. RS IF=100mA F=100MHz (Ω)	Typ. TL IF=10mA (nS)	Nominal I-Region Thickness (µm)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.
											1	100	500			
PIN Diodes for Attenuator Applications																
3	50	1	0.825	1.5	0.5‡	—	400	8	SC-79	863-1100-1-ND	.76	.62	.58	863-1100-2-ND	463.76/M	SMP1322-079LF
3	200	0.3	0.8	20	3	1.5	700	50	SC-79	863-1086-1-ND	.60	.40	.38	863-1086-2-ND	300.00/M	SMP1302-079LF
10	200	0.3	0.8	20	3	1.5	700	50	4-QFN	863-1146-1-ND	1.89	1.65	1.43	863-1146-2-ND	1080.00/M	SMP1302-085LF
1	200	0.3	0.8	50	7	2	1000	100	SOT-23	863-1087-1-ND	.74	.60	.56	863-1087-2-ND	442.00/M	SMP1304-004LF
1	200	0.3	0.8	50	7	2	1000	100	SOT-23	863-1088-1-ND	.76	.62	.58	863-1088-2-ND	463.76/M	SMP1304-007LF
1	200	0.3	0.85	100	15	3	1500	175	SOT-23	863-1089-1-ND	.79	.65	.61	863-1089-2-ND	490.30/M	SMP1307-004LF
4	200	0.3	0.85	100	15	3	1500	175	SOD-323	863-1090-1-ND	.76	.62	.58	863-1090-2-ND	463.76/M	SMP1307-011LF
6	200	0.3	0.85	100	15	3	1500	175	SOT-5	863-1091-1-ND	1.01	.86	.82	863-1091-2-ND	705.00/M	SMP1307-027LF
9	50	0.3	0.85	2‡	0.9	—	400	8	0402	863-1163-1-ND	.53	.46	.40	863-1163-2-ND	301.71/M	SMP1320-040LF
9	100	0.25	0.85	3‡	2	—	400	15	0402	863-1164-1-ND	.53	.46	.40	863-1164-2-ND	301.71/M	SMP1321-040LF
10	200	—	—	—	0.75@50mA	—	2000 min.	100	2-QFN	863-1165-1-ND	.53	.46	.40	863-1165-2-ND	643.99/M	SMP1324-087LF
9	50	0.3§	0.88	1.7	1.2	—	100	7	0402	863-1167-1-ND	.60	.40	.38	863-1167-2-ND	1357.16/M	SMP1340-040LF
9	200	0.35∆	0.8	15	2.8	—	1000	50	0402	863-1168-1-ND	.53	.46	.40	863-1168-2-ND	301.71/M	SMP1352-040LF
10	35	1.2∆	—	—	0.5	—	200 min.	12	2-QFN	863-1169-1-ND	.38	.34	.29	863-1169-2-ND	1081.60/M	SMP1371-087LF

‡ Typical § VR=5V ∆ VR=20V

Fig.	VB IR=10µA (V)	Nominal I-Region Thickness (µm)	CT 0V, F= 1MHz Typ. (pF)	CT 0V, F= 1GHz Typ. (pF)	RSIF = 10mA F= 100 MHz Typ. (Ω)	Carrier Lifetime TL IF = 10mA Typ. (ns)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.
									1	100	500			
Plastic SMT Limiter Diodes — Low Frequency to 6GHz														
1	20 ~ 50	3	0.7	0.7	1.25	4.0	SOT-23	863-1101-1-ND	.90	.74	.67	863-1101-2-ND	540.00/M	SMP1330-005LF
9	20 ~ 50	3	0.7	0.7	1.25	4.0	0402	863-1166-1-ND	1.89	1.65	1.44	863-1166-2-ND	310.00/M	SMP1330-040LF
High Power Limiter Diode														
10	250 min.	28	—	—	1.5 max.	1.1µs	2-QFN	863-1182-1-ND	1.62	1.22	1.11	863-1182-2-ND	1292.02/M	CLA4609-086LF

VB @ 10µA (V)	Nominal I-Region Thickness (µm)	Typical CJ @ 0V (pF)	Maximum CJ @ 6V (pF)	Maximum RS @ 10mA (Ω)	Maximum TL @ 10mA (ns)	Thermal Impedence		Digi-Key Part No.	Price Each			Skyworks Part No.
						Max. Average (C/W)	Typ. 1µs Pulse (C/W)		100	500	1,000	
Limiter Diode Chips — Low Frequency to 20GHz												
15 ~ 30	1.0	0.12	0.10	2.5	5	120	15	863-1031-ND	5.00	3.45	3.13	CLA4601-000
15 ~ 30	1.0	0.20	0.15	2.0	5	80	10	863-1032-ND	5.00	3.45	3.13	CLA4602-000
20 ~ 45	1.5	0.20	0.15	2.0	5	100	10	863-1033-ND	5.00	3.45	3.13	CLA4603-000
30 ~ 60	2.0	0.12	0.10	2.5	7	100	10	863-1034-ND	5.00	3.45	3.13	CLA4604-000
30 ~ 60	2.0	0.20	0.15	2.0	7	70	7.0	863-1035-ND	5.00	3.45	2.50	CLA4605-000
45 ~ 75	2.5	0.20	0.15	2.0	10	80	7.0	863-1037-ND	5.00	3.45	2.50	CLA4606-000
120 ~ 180	7.0	0.20	0.15 @ 50V	2.0	50	40	1.2	863-1038-ND	5.00	3.45	2.50	CLA4607-000
120 ~ 180	7.0	0.80	0.5 @ 50V	1.2	100	15	0.3	863-1040-ND	5.00	3.45	2.50	CLA4608-000
250 min.	28	0.26	0.14	1.5	1175	15	0.3	863-1162-ND	2.76	2.60	2.35	CLA4609-000

Fig.	Min. VB IR=10µA (V)	Typ. IR VR=1V (nA)	Max. VF IF=1mA (mV)	Max. VF @ Spec. IF (mV)	Max. CT VR=0V (pF)	Typ. RT IF=10mA (Ω)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Skyworks Part No.
									1	100	500		Qty.	Pricing	
Schottky Diodes															
1	8	100†	340	450 @ 10mA	1.03	7	SOT-23	863-1107-1-ND	.90	.74	.67	863-1107-2-ND	3,000	540.00/M	SMS3922-004LF
8	8	100†	340	450 @ 10mA	1.03	7	SOT-143	863-1108-1-ND	.96	.79	.74	863-1108-2-ND	3,000	590.00/M	SMS3922-015LF
3	8	100†	340	450 @ 10mA	1.03	7	SC-79	863-1109-1-ND	.86	.69	.63	863-1109-2-ND	3,000	510.00/M	SMS3922-079LF
4	20	500‡	370	1000 @ 35mA	1.23	11	SOD-323	863-1110-1-ND	.60	.40	.39	863-1110-2-ND	3,000	340.00/M	SMS3923-011LF
8	20	500‡	370	1000 @ 35mA	1.23	11	SOT-143	863-1111-1-ND	.96	.79	.74	863-1111-2-ND	3,000	590.00/M	SMS3923-015LF
7	20	500‡	370	1000 @ 35mA	1.23	11	SC-88	863-1112-1-ND	1.83	.97	.91	863-1112-2-ND	3,000	780.00/M	SMS3923-081LF
3	70	200§	550	1000 @ 15mA	1.83	7	SC-79	863-1113-1-ND	.60	.40	.39	863-1113-2-ND	3,000	340.00/M	SMS3924-079LF
8	2	300	270	—	0.5	8†	SOT-143	863-1114-1-ND	1.16	.97	.89	863-1114-2-ND	3,000	700.00/M	SMS3926-023LF
8	2	50	370	—	0.5	8†	SOT-143	863-1115-1-ND	1.16	.97	.89	863-1115-2-ND	3,000	700.00/M	SMS3927-023LF
8	2	50	370	—	0.5	8†	SOT-143	863-1117-1-ND	1.16	.97	.89	863-1117-2-ND	3,000	700.00/M	SMS3930-021LF
1	2	80	320	—	0.28	18†	SOT-23	863-1118-1-ND	.60	.40	.39	863-1118-2-ND	3,000	340.00/M	SMS7621-005LF
1	2	80	320	—	0.28	18†	SOT-23	863-1119-1-ND	.60	.40	.39	863-1119-2-ND	3,000	340.00/M	SMS7621-006LF
9	2	80	320	—	0.25	18†	0402	863-1170-1-ND	1.89	1.65	1.44	863-1170-2-ND	3,000	310.00/M	SMS7621-040LF
11	2	80	320	—	0.25	18†	0201	863-1171-1-ND	.63	.48	.44	863-1171-2-ND	5,000	800.01/M	SMS7621-060
3	2	80	320	—	0.28	18†	SC-79	863-1120-1-ND	.60	.40	.39	863-1120-2-ND	3,000	340.00/M	SMS7621-079LF
7	2	80	320	—	0.28	18†	SC-88	863-1121-1-ND	1.75	—	1.50	863-1121-2-ND	3,000	1068.75/M	SMS7621-081LF
5	2	80	320	—	0.28	18†	4-LGA	863-1123-1-ND	.97	.80	.75	863-1123-2-ND	3,000	610.00/M	SMS7621-517
1	1 @100	—	240	—	0.35	22	SOT-23	863-1124-1-ND	.60	.40	.39	863-1124-2-ND	3,000	340.00/M	SMS7630-006LF
9	1	—	240	—	0.35	22	0402	863-1172-1-ND	.54	.47	.41	863-1172-2-ND	3,000	310.00/M	SMS7630-040LF
11	1	—	240	—	0.35	22	0201	863-1173-1-ND	.63	.48	.44	863-1173-2-ND	5,000	800.01/M	SMS7630-061
3	1 @100	—	240	—	0.35	22	SC-79	863-1125-1-ND	.60	.40	.39	863-1125-2-ND	3,000	340.00/M	SMS7630-079LF

† Maximum ‡ VR=15V Maximum § VR=50V Maximum

Fig.	VR IR=10µA (V) Min.	CT VR=1V (pF) Typ.	CT VR =4V (pF) Typ.	CT VR=8V (pF) Typ.	Total Cap. Ratio Min.	Capacitance Ratio Range (V)	RS Series Resistance (Ω) Max.	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.
										1	100	500			
High Capacitance — Hyperabrupt Varactor Diodes															
4	15	11.67	4.99	2.91	1.6	1:3	0.6	SOD-323	863-1133-1-ND	.77	.62	.58	863-1133-2-ND	460.00/M	SMV1235-011LF
4	15	17.02	7.19	4.49	1.6	1:3	0.5	SOD-323	863-1134-1-ND	.77	.62	.58	863-1134-2-ND	460.00/M	SMV1236-011LF
3	15	17.02	7.19	4.49	1.6	1:3	0.5	SC-79	863-1135-1-ND	.60	.40	.39	863-1135-2-ND	320.00/M	SMV1236-079LF
3	20	17.81	5	—	2.3	0.5:2.5	0.7	SC-79	863-1140-1-ND	.77	.62	.58	863-1140-2-ND	460.00/M	SMV1270-079LF
1	12	18.1	3.5	1.9	5	1:4	1.4	SOT-23	863-1127-1-ND	.60	.40	.39	863-1127-2-ND	320.00/M	SMV1213-001LF
1	12	18.1	3.5	1.9	5	1:4	1.4	SOT-23	863-1128-1-ND	.80	.65	.60	863-1128-2-ND	480.00/M	SMV1213-004LF
3	15	18.18	2.72	2.03	11	0.3:4.7	2.2	SC-79	863-1137-1-ND	.60	.40	.39	863-1137-2-ND	320.00/M	SMV1249-079LF
3	15	43.27	5.58	4.26	11	0.3:4.7	1.3	SC-79	863-1138-1-ND	.60	.40	.39	863-1138-2-ND	320.00/M	SMV1255-079LF
4	28	8.7	2.95	1.188	11.3	1:26	2.0	SOD-323	863-1141-1-ND	.77	.62	.58	863-1141-2-ND	460.00/M	SMV1283-011LF
Low Capacitance — Hyperabrupt Varactor Diodes															
3	15	2.67	1.22	0.81	1.5	1:3	1.5	SC-79	863-1129-1-ND	.77	.62	.58	863-1129-2-ND	460.00/M	SMV1232-079LF
4	15	3.28	1.45	0.96	1.5	1:3	1.2	SOD-323	863-1130-1-ND	.60	.40	.39	863-1130-2-ND	320.00/M	SMV1233-011LF
3	15	4.37	0.77	0.64	9.5	0.3:4.7	6.0	SC-79	863-1136-1-ND	.60	.40	.39	863-1136-2-ND	320.00/M	SMV1247-079LF
3	20	5.11	1.54	—	2.3	0.5:2.5	1.2	SC-79	863-1139-1-ND	.60	.40	.39	863-1139-2-ND	320.00/M	SMV1263-079LF
3	10	5.2	1.9	—	2.3	0.5:2.5	0.7	SC-79	863-1144-1-ND	.60	.40	.39	863-1144-2-ND	320.00/M	SMV1763-079LF
4	15	6.28	2.81	1.65	1.6	1:3	0.8	SOD-323	863-1131-1-ND	.60	.40	.39	863-1131-2-ND	320.00/M	SMV1234-011LF
3	15	6.28	2.81	1.65	1.6	1:3	0.8	SC-79	863-1132-1-ND	.77	.62	.58	863-1132-2-ND	460.00/M	SMV1234-079LF
Low Capacitance — Abrupt Varactor Diodes															
3	30	1.84	1.25	0.63†	4.1	0:30	0.8	SC-79	863-1142-1-ND	.77	.62	.58	863-1142-2-ND	460.00/M	SMV1405-079LF
3	30	6.37	4.1	1.77†	4.2	0:30	0.35	SC-79	863-1143-1-ND	.77	.62	.58	863-1143-2-ND	460.00/M	SMV1413-079LF

† VR=30V

Dimensions in mm

Fig. 3

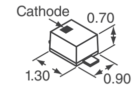

Fig. 4

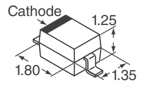

Fig. 5

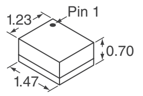

Fig. 6

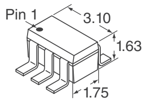

Fig. 7

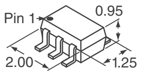

Fig. 8

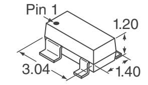

Fig. 9

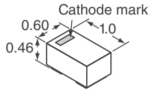

Fig. 10

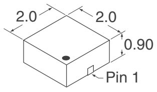

Fig. 11

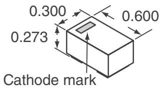

(Continued)

RF Switches and Attenuators

Dimensions in mm

B

Fig. 1

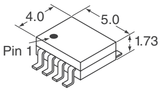

Fig. 2

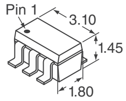

Fig. 3

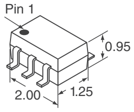

Fig. 4

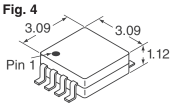

Fig. 5

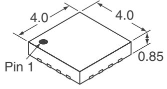

Fig. 6

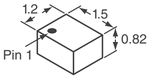

Fig. 7

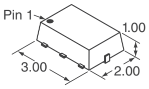

Fig. 8

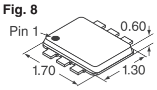

Fig. 9

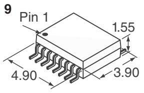

Fig. 10

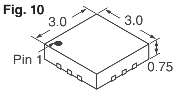

Fig. 11

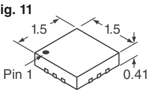

Fig. 12

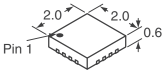

Fig. 13

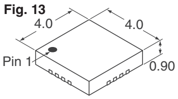

Fig. 14

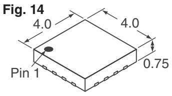

Fig. 15

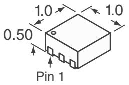

Fig. 16

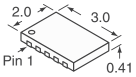

Fig. 17

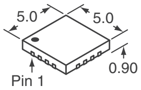

Fig. 18

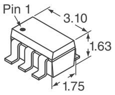

Fig. 19

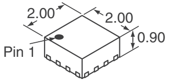

Fig. 20

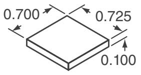

Fig.	Frequency Range (GHz)	Typical IL (dB)	Typical Isolation (dB)	Typical IIP3 (dBm)	Typical $IP_{1\ dB}$ (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Pricing 3,000	Skyworks Part No.
							SPST						
1	LF ~ 2.5	0.5 ~ 0.75	59 ~ 30	46	24	8-SOIC	863-1055-1-ND	2.05	1.54	1.40	863-1055-2-ND	1135.89/M	SKY13316-12LF
							SPDT						
2	LF ~ 2.5	0.3 ~ 0.4	25 ~ 24	48	30	6-SOT	863-1002-1-ND	.62	.47	.43	863-1002-2-ND	344.60/M	AS169-73LF
3	LF ~ 3.0	0.3 ~ 0.4	25 ~ 23	48	30	SC-70	863-1003-1-ND	.53	.40	.37	863-1003-2-ND	293.55/M	AS179-92LF
3	LF ~ 2.5	0.3 ~ 0.55	20 ~ 13	48	30	SC-70	863-1004-1-ND	1.04	.78	.71	863-1004-2-ND	574.33/M	AS183-92LF
4	LF ~ 4.0	0.8 ~ 1.00	55 ~ 40	27	17	8-MSOP	863-1005-1-ND	2.05	1.54	1.40	863-1005-2-ND	1135.89/M	AS186-302LF
2	0.1 ~ 2.5	0.3 ~ 0.55	30 ~ 17	55	37	6-SOT	863-1006-1-ND	.86	.65	.59	863-1006-2-ND	472.69/M	AS193-73LF
5	LF ~ 6.0	0.9 ~ 1.60	55 ~ 30	30	17	LPCC	863-1007-1-ND	2.58	2.03	1.85	863-1007-2-ND	1496.85/M	AS196-307LF
6	LF ~ 4.0	0.3 ~ 0.60	26 ~ 22	50	34	6-LGA	863-1009-1-ND	.67	.51	.46	863-1009-2-ND	370.13/M	AS211-334
7	0.1 ~ 6.0	0.5 ~ 0.60	21 ~ 20	52	30	6-QFN	863-1012-1-ND	.78	.59	.54	863-1012-2-ND	433.94/M	AS225-313LF
8	0.3 ~ 3.0	0.3 ~ 0.40	25 ~ 23	43	30	SOT-666	863-1047-1-ND	.53	.40	.37	863-1047-2-ND	293.55/M	SKY13268-344LF
3	0.1 ~ 2.5	0.3 ~ 0.55	30 ~ 17	56	37 @ 0.1dB	SC-70	863-1048-1-ND	.86	.65	.59	863-1048-2-ND	472.69/M	SKY13270-92LF
13	0.1 ~ 6.0	0.8 ~ 1.50	62 ~ 42	46	30	16-QFN	863-1049-1-ND	1.85	1.39	1.27	863-1049-2-ND	1024.16/M	SKY13286-359LF
7	0.5 ~ 2.5	0.4 ~ 0.55	26 ~ 18	63	40.5 @ 0.1dB	6-QFN	863-1174-1-ND	3.55	2.67	2.43	863-1174-2-ND	1970.01/M	SKY13290-313LF
19	3.0 ~ 8.0	0.7 ~ 0.9	25 ~ 22	47	26	8-QFN	863-1180-1-ND	2.34	1.76	1.60	863-1180-2-ND	1969.54/M	SKY13298-360LF
10	0.1 ~ 4.0	0.3 ~ 0.65	30 ~ 29	60	38.5 @ 0.1dB	12-QFN	863-1051-1-ND	1.85	1.39	1.27	863-1051-2-ND	1024.16/M	SKY13299-321LF
7	0.1 ~ 6.0	0.4 ~ 0.55	26 ~ 18	53	35 @ 0.1dB	6-QFN	863-1052-1-ND	1.11	.84	.76	863-1052-2-ND	614.50/M	SKY13306-313LF
11	0.1 ~ 6.0	0.2 ~ 0.6	35 ~ 21	47	31	6-MLPD	863-1054-1-ND	.67	.51	.46	863-1054-2-ND	387.50/M	SKY13314-374LF
11	0.1 ~ 3.0	0.3 ~ 0.7	30 ~ 19	56	36.5 @ 0.1dB	6-QFN	863-1057-1-ND	1.25	.99	.90	863-1057-2-ND	724.79/M	SKY13319-374LF
11	0.1 ~ 6.0	0.4 ~ 0.6	30 ~ 24	53	35 @ 0.1dB	6-QFN	863-1058-1-ND	.92	.88	.83	863-1058-2-ND	748.21/M	SKY13320-374LF
15	2.0 ~ 6.0	0.35 ~ 0.50	24 ~ 26	50	30 @ 0.5dB	6-MLPD	863-1177-1-ND	1.12	.84	.77	863-1177-2-ND	300.00/M	SKY13351-378LF
							SP3T						
10	LF ~ 2.0	0.45 ~ 0.7	32 ~ 20	63	37	12-QFN	863-1013-1-ND	1.20	.90	.82	863-1013-2-ND	661.77/M	AS227-321LF
17	0.5 ~ 2.5	0.9 ~ 1.2	62 ~ 55	43	30	5-QFN	863-1179-1-ND	1.12	.84	.77	863-1179-2-ND	913.87/M	SKY13277-355LF
12	0.1 ~ 3.0	0.5 ~ 0.6	26 ~ 25	45	29	8-MLP	863-1053-1-ND	1.07	.82	.66	863-1053-2-ND	440.71/M	SKY13309-370LF
							SP4T						
9	0.5 ~ 3.0	0.4 ~ 0.9	45 ~ 25	40	26	16-SSOP	863-1008-1-ND	3.36	2.52	2.30	863-1008-2-ND	1859.25/M	AS204-80LF
13	0.1 ~ 2.5	0.6 ~ 1.1	34 ~ 22	55	38	16-QFN	863-1011-1-ND	2.88	2.17	1.97	863-1011-2-ND	1595.35/M	AS221-306LF
16	0.1 ~ 6.0	0.5 ~ 1.3	50 ~ 24	47	30	10-QFN	863-1176-1-ND	1.13	.98	.93	863-1176-2-ND	546.07/M	SKY13322-375LF
10	0.1 ~ 2.5	0.4 ~ 0.5	29 ~ 23	60	37	3-QFN	863-1181-1-ND	.99	.74	.68	863-1181-2-ND	630.26/M	SKY14151-350LF
							DPDT						
10	0.1 ~ 6.0	0.95 ~ 1.15	22 ~ 15	57	34	12-QFN	863-1175-1-ND	3.55	2.67	2.43	863-1175-2-ND	293.60/M	SKY13318-321LF
							Multiport						
10	LF ~ 6.0	1.2 ~ 1.6	28 ~ 19	47	33	12-QFN	863-1010-1-ND	1.12	.84	.77	863-1010-2-ND	630.26/M	AS218-321LF
	2.4 ~ 6.0	0.7 ~ 0.9	32 ~ 20	49	30	12-QFN	863-1046-1-ND	1.04	.79	.71	863-1046-2-ND	586.14/M	SKY13267-321LF
							LNB/DBS Matrix Switch						
14	0.25 ~ 2.15	7.5 ~ 8.5	40 ~ 31	—	15	20-QFN	863-1178-1-ND	.58	.52	.39	863-1178-2-ND	630.26/M	SKY13272-340LF
14	0.25 ~ 2.15	8.0 ~ 9.0	57 ~ 45	—	15	20-QFN	863-1050-1-ND	1.62	1.22	1.11	863-1050-2-ND	913.87/M	SKY13293-340LF

Fig.	Frequency Range (GHz)	Control Bits/ Interface (Parallel/Serial)	Attenuation Range (dB)	LSB Attenuation (dB)	Typical IL (dB)	Typical IIP3 (dBm)	Typical IP1dB (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Pricing 3,000	Skyworks Part No.
								Digital Attenuators							
18	LF ~ 2.5	1/P	10.0	10.0	0.3 ~ 0.4	41	20	SOT-5	863-1000-1-ND	1.78	1.34	1.22	863-1000-2-ND	986.54/M	AA103-72LF
2	LF ~ 2.5	1/P	32.0	32.0	0.8 ~ 1.0	41	21	SOT-6	863-1001-1-ND	1.78	1.34	1.22	863-1001-2-ND	986.54/M	AA104-73LF
10	0.5 ~ 4.0	5/P	15.5	0.5	1.1 ~ 2.3	42	30	16-QFN	863-1041-1-ND	3.09	2.33	2.12	863-1041-2-ND	1715.85/M	SKY12328-350LF
10	0.4 ~ 4.0	5/P	31.0	1.0	1.2 ~ 2.7	39	29	16-QFN	863-1042-1-ND	3.09	2.33	2.12	863-1042-2-ND	1715.85/M	SKY12329-350LF
13	0.5 ~ 4.0	5/S	15.5	0.5	1.1 ~ 2.3	46	29	24-QFN	863-1044-1-ND	6.35	4.78	4.34	863-1044-2-ND	3520.92/M	SKY12334-362LF
19	50 ~ 600†	2/P	12.0	12.0	0.3	46	22	8-QFN	863-1045-1-ND	.92	.87	.83	863-1045-2-ND	750.01/M	SKY12406-360LF

† MHz

Fig.	Frequency Range (GHz)	Description	Insertion Loss @ Min. Control (dB) Max.	Attenuation Range @ Max. Control (dB) Typ.	Input IP3 (dBm) Min.	Control Input Range (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Pricing 3,000	Skyworks Part No.
							Voltage Variable Attenuators							
1	0.7 ~ 1.0	HIP3™ Variable Attenuator	1.5	20	47	0 ~ 3.0	8-SOIC	863-1029-1-ND	8.57	6.44	5.86	863-1029-2-ND	4751.02/M	AV101-12LF

Fig.	Nominal Attenuation (dB)	Attenuation Flatness DC-12GHz (dB)	Minimum Return Loss DC-12GHz (dB)	Digi-Key Part No.	Price Each	Skyworks Part No.
			Fixed Attenuators			
20	0	±0.15	28	863-1147-ND	4.60	ATN3590-00
	1	±0.15	28	863-1148-ND	4.60	ATN3590-01
	2	±0.15	28	863-1149-ND	4.60	ATN3590-02
	3	±0.15	28	863-1150-ND	4.60	ATN3590-03
	4	±0.15	28	863-1151-ND	4.60	ATN3590-04
	5	±0.15	28	863-1152-ND	4.60	ATN3590-05
	6	±0.15	28	863-1153-ND	4.60	ATN3590-06
	7	±0.15	28	863-1154-ND	4.60	ATN3590-07
	8	±0.15	28	863-1155-ND	4.60	ATN3590-08
	9	±0.20	28	863-1156-ND	4.60	ATN3590-09
	10	±0.20	28	863-1157-ND	4.60	ATN3590-10
	12	±0.20	28	863-1158-ND	4.60	ATN3590-12
	15	±0.20	28	863-1159-ND	4.60	ATN3590-15
	20	±0.20	28	863-1160-ND	4.60	ATN3590-20
	30	±0.20	28	863-1161-ND	4.60	ATN3590-30

RFID Evaluation Kit

The DEMOKITCRX14 tools are designed to demonstrate the STMicroelectronics short range product range that includes the SR176, SRIX512 and SRIX4K products. The SR176 / SRIX512 / SRIX4K is contactless memory, powered by a transmitted carrier radio wave at 13.56MHz. It contains a 176-bit (SR176), 512-bit (SRIX512) or 4096-bit (SRIX4K) EEPROM, with memory mapping organized as blocks of 16 or 32 bits. It conforms to the ISO 14443-B recommendation for the transfer of power and signals via radio transmission. The DEMOKITCRX14 reader circuitry amplitude modulates (10% modulation) the data on the carrier using amplitude shift keying (ASK). The SR176 / SRIX512 / SRIX4K replies by load modulating the data on the carrier using the BPSK (Bit Phase Shift Keying) coding using the 847kHz sub-carrier. The data transfer rate in each direction is 106 Kbit/second. The purpose of the DEMOKITCRX14 program is to give an example of how the interfacing can be achieved. It does not allow the user to evaluate all of the different ISO 14443 modes. The DEMOKITCRX14 gives access to the full memory mapping. It is possible to read and write into the selected SR176 / SRIX512 / SRIX4K. This release of demonstration software, differentiated for each SR176 / SRIX512 / SRIX4K, allows all of the product features to be exercised.

Kit Includes:

• One CD-ROM • One CRX14 board with I^{2}C connector • One USB Transceiver with USB cable • Some SR176 and SRIX4K Samples • Documentation

497-3704-ND RFID Evaluation Kit. **$585.00**

CR14 and CRX14 Coupler Chips

RoHS COMPLIANT

The CR14 and CR14X series are contactless couplers that are compliant with the short range ISO14443 type-B standard. They are controlled using the two wire I^{2}C bus. They generate a 13.56MHz signal on an external antenna. Transmitted data is modulated using Amplitude Shift Keying (ASK). Received data is demodulated from the PICC (Proximity Integrated Coupling Card) load variation signal, induced on the antenna, using Bit Phase Shift Keying (BPSK) of a 847kHz sub-carrier. The Transmitted ASK wave is 10% modulated. The data transfer rate between the CR14/CRX14 and PICC is 106Kbit/second in both transmission and reception modes.

Type	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
Non-anti-clone	16-SOIC	497-5719-5-ND	6.35	5.68	4.66	CR14-MQP/1GE
Anti-clone	16-SOIC	497-5720-5-ND	8.85	7.97	6.55	CRX14-MQP/1GE

Bluetooth® Modules

GS-BT2416xx is the series of Bluetooth core embedded modules intended for audio Hi-Fi and Industrial applications based on the STLC2416 baseband controller with 4Mbit flash and the STLC2150 radio transceiver. The series supports protocol layers up to HCI and it represents a cost effective packaged solution for customers in need of a simple wireless link. The Bluetooth approach is facilitated by the Serial Port Profile (SPP) firmware embedded in GS-BT2416CX.AT1. This ready-to-go solution is simply managed by AT commands. The modules are also available in Class 1 and Class 2 for either long range or low power. Bluetooth v1.2 compliant. **Features:** • Class 1 (long) and Class 2 ranges • Bluetooth v1.2 compliant • Embedded SPP profile for cable replacement • AT commands set • HCI interface over UART and USB • Single 3.3V voltage supply with embedded voltage regulator

SPBT2532C2.AT is a surface-mount PCB module that provides fully embedded, ready-to-use Bluetooth wireless technology. It is designed for maximum performance in a minimal space and includes four general purpose and four A/D IO lines, several serial interface options, and up to 2 Mbps data throughout. The re-programmable Flash memory contains embedded firmware for serial cable replacement using the Bluetooth SPP profile.

This user manual describes the **STEVAL-SPBT2ATV1** demonstration board for the Bluetooth class 2 SPBT2532C2.AT module. The board includes the module under evaluation, an RF antenna, and a USB connector. The USB connector is used to connect the board with a PC, to access the Bluetooth module and to supply the board. The STEVAL-SPBT2ATV1 is a board with downloaded FW which enables the user to create a Bluetooth link with simple AT commands. It is an easy solution to test and operate with the SPBT2532C2.AT module. **Features:** • Bluetooth V2.1 board • USB connection • SMD antenna on board

Class	Profile	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
1	HCI	497-6845-ND◆	34.00	31.45	26.78	GS-BT2416C1.H
	SPP	497-5789-ND◆	38.00	35.15	29.93	GS-BT2416C1.AT1
2	HCI	497-6846-ND◆	28.02	25.92	22.07	GS-BT2416C2.H
Board Demo for Class 1 Mod.		497-5792-ND◆	63.00	—	—	GS-BT2416C1DB
Board Demo for Class 2 Mod.		497-10539-ND◆ ***NEW!***	31.42	29.07	24.75	SPBT2532C2.AT
Board Demo for Class 2 Mod. SPBT2532C2.AT		497-10656-ND ***NEW!***	37.50	—	—	STEVAL-SPBT2ATV1

◆ *RoHS Compliant*

TAIYO YUDEN Antennas

Digi-Reel® RoHS COMPLIANT

These SMD chip antennas provide a high performance solution in a compact, low profile design. Different sizes are available based on design needs, but each device has a wide bandwidth and high gain for an increased link budget for your application.

Fig. 1

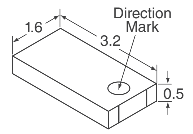

Fig. 2

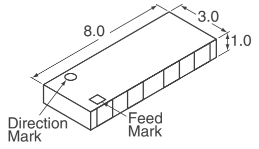

Fig. 3

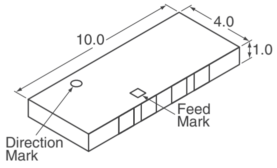

Fig. 4

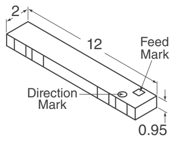

Fig. 5

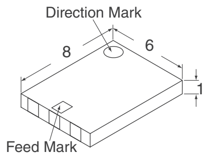

Fig. 6

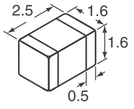

Fig. 7

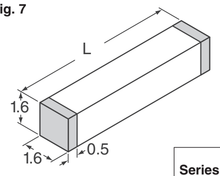

Series	Dim. L (mm)
AF816	8.0
AF116	11.0

Fig.	Frequency (GHz)	Bandwidth (MHz)	Gain (dBi)	Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
1	2.45	170	-2	Multilayer	587-2200-1-ND	1.95	1.60	1.29	587-2200-2-ND	3,000	546.00/M	AH316M245001-T
	1.575	90	—	Multilayer	587-2310-1-ND ***NEW!***	2.10	1.73	1.39	587-2310-2-ND ***NEW!***	3,000	588.00/M	AH316M157501-T
2	2.45	210	2	Multilayer	587-1725-1-ND	2.58	2.15	1.89	587-1725-2-ND	1,000	882.00	AH083F245001-T
3	2.45	300	2	Multilayer	587-1726-1-ND	2.75	2.28	2.01	587-1726-2-ND	2,000	905.00/M	AH104F2450S1-T
	2.65	—	0	Multilayer	587-2246-1-ND	2.75	2.28	2.01	587-2246-2-ND	2,000	905.00/M	AH104F2650S1-T
	2.45 / 5.4	100 / 950	-5 / -6	Multilayer	587-2203-1-ND	2.75	2.28	2.01	587-2203-2-ND	2,000	905.00/M	AH104N2450D1-T
4	2.45	230	-1	Multilayer	587-2201-1-ND	2.75	2.28	2.01	587-2201-2-ND	2,000	905.00/M	AH122F245001-T
5	5.55	4,900	-6.4	Multilayer	587-2204-1-ND	2.58	2.15	1.89	587-2204-2-ND	1,000	882.00	AH086M555003-T
6	2.45	300	1	Helical	587-1727-1-ND	1.75	1.44	1.16	587-1727-2-ND	2,000	490.00/M	AF216M245001-T
7	1.575	2,046	0	Helical	587-2094-1-ND	2.05	1.70	1.50	587-2094-2-ND	2,000	675.00/M	AF816M157502-T
	1.575	2,046	1	Helical	587-2095-1-ND	2.05	1.70	1.50	587-2095-2-ND	2,000	675.00/M	AF116M157502-T

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TAIYO YUDEN

Filters

The High Frequency Multilayer Chip Filters from Taiyo Yuden are compact, and have a low profile, but provide for low loss and high attenuation.

The FI212C245031-T balanced port is conjugated to the BlueCore3-ROM and BlueCore4-ROM devices from CSR.

Dimensions in mm

Fig. 1

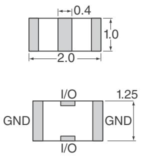

Fig. 2

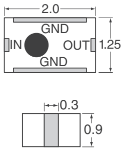

Fig. 3

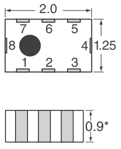

Drawing is for reference only.
* 0.7 for 587-2316-1-ND and 587-2316-2-ND

A	B	C	D
1. Balanced	1. Balanced	1. Balanced	1. Balanced
2. GND	2. Balanced	2. GND	2. GND
3. Balanced	3. GND	3. Balanced	3. Balanced
4. GND	4. GND	4. GND	4. GND
5. Unbalance	5. NC	5. Unbalance	5. Unbalance
6. DC	6. DC	6. NC	6. NC or DC
7. NC	7. Unbalance	7. NC	7. NC
8. GND	8. GND	8. GND	8. GND

Fig. 4

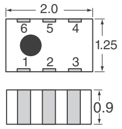

1. GND
2. Common
3. GND
4. HIGH Band
5. GND
6. Low Band

Fig.	Passband Frequency (MHz)	VSWR at Passband Max.	Impedance (Ω)	Type	Recommended IC's	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
1	2,400 ~ 2,500	2.0	50	Band Pass	—	587-1728-1-ND	1.07	.90	.66	587-1728-2-ND	3,000	276.00/M	FI212B245021-T
2	1,884 ~ 1,930	2.0	50	Band Pass	—	587-2210-1-ND	1.07	.90	.66	587-2210-2-ND	3,000	276.00/M	FI212B190223-T
	2,400 ~ 2,500	2.0	—	Band Pass	—	587-2312-1-ND ***NEW!***	1.07	.90	.66	587-2312-2-ND ***NEW!***	3,000	275.50/M	FI212B245025-T
	2,400 ~ 2,500	2.0	50	Band Pass	—	587-2313-1-ND ***NEW!***	1.07	.90	.66	587-2313-2-ND ***NEW!***	3,000	275.50/M	FI212B245026-T
	2,400 ~ 2,500	2.0	—	Band Pass	—	587-2314-1-ND ***NEW!***	1.07	.90	.66	587-2314-2-ND ***NEW!***	3,000	275.50/M	FI212B245027-T
	3,168 ~ 4,752	2.5	50	Band Pass	—	587-2208-1-ND	1.07	.90	.66	587-2208-2-ND	3,000	276.00/M	FI212B396001-T
	4,224 ~ 4,752	2.2	50	Band Pass	—	587-2209-1-ND	1.07	.90	.66	587-2209-2-ND	3,000	276.00/M	FI212B448802-T
3A	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	CSR: BC313141A, BC313143A, BC352239A, BC41B143A	587-1729-1-ND	1.07	.90	.66	587-1729-2-ND	3,000	276.00/M	FI212C245031-T
	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	—	587-2218-1-ND	1.07	.90	.66	587-2218-2-ND	3,000	276.00/M	FI212C245032-T
	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	—	587-2219-1-ND	1.07	.90	.66	587-2219-2-ND	3,000	276.00/M	FI212C245033-T
	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Bluetooth	CSR: BC4-BGA, BC5-BGA	587-2315-1-ND ***NEW!***	1.07	.90	.66	587-2315-2-ND ***NEW!***	3,000	275.50/M	FI212C245034-T
	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	—	587-2220-1-ND	1.07	.90	.66	587-2220-2-ND	3,000	276.00/M	FI212C245035-T
	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	CSR: BC51B143A, BC57E687A, BC51D129A	587-2149-1-ND	1.07	.90	.66	587-2149-2-ND	3,000	276.00/M	FI212C245036-T
	2,400 ~ 2,500	4.0	50 (Unbalanced)	Balanced Bluetooth	CSR: BC5FM, BC6ROM	587-2316-1-ND ***NEW!***	1.07	.90	.66	587-2316-2-ND ***NEW!***	3,000	275.50/M	FI212C245072-T
3B	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	—	587-2221-1-ND	1.07	.90	.66	587-2221-2-ND	3,000	276.00/M	FI212C245041-T
3C	2,400 ~ 2,500	2.0	50 (Unbalanced)	Balanced Band Pass	—	587-2222-1-ND	1.07	.90	.66	587-2222-2-ND	3,000	276.00/M	FI212C245051-T
3D	2,300 ~ 2,690	2.3	50 : 100	Balanced Band Pass for WiMAX	—	587-2223-1-ND	1.07	.90	.66	587-2223-2-ND	3,000	276.00/M	FI212C249566-T
4	2,400 ~ 2,500	2.0	—	Diplexer	—	587-2224-1-ND	1.07	.90	.66	587-2224-2-ND	3,000	276.00/M	FI212P245003-T
5	470 ~ 770	2.0	50	Low Pass for Digital TV	—	587-1730-1-ND	1.35	1.13	.83	587-1730-2-ND	3,000	348.00/M	FI212L062002-T
	470 ~ 770	2.5	50	Low Pass for Digital TV	—	587-2211-1-ND	1.35	1.13	.83	587-2211-2-ND	3,000	348.00/M	FI212L062003-T
	470 ~ 760	2.5	50	Low Pass for Digital TV	—	587-2212-1-ND	1.35	1.13	.83	587-2212-2-ND	3,000	348.00/M	FI212L062006-T
	470 ~ 750	2.0	50	Low Pass for Digital TV	—	587-2213-1-ND	1.35	1.13	.83	587-2213-2-ND	3,000	348.00/M	FI212L062007-T
	470 ~ 750	2.0	50	Low Pass for Digital TV	—	587-2214-1-ND	1.35	1.13	.83	587-2214-2-ND	3,000	348.00/M	FI212L062008-T
	470 ~ 806	2.2	50	Low Pass for Digital TV	—	587-2215-1-ND	1.35	1.13	.83	587-2215-2-ND	3,000	348.00/M	FI212L062009-T
6	2,400 ~ 2,500	2.1	50	Band Pass	—	587-2205-1-ND	1.09	.93	.63	587-2205-2-ND	4,000	245.00/M	FI168B245001-T
	2,300 ~ 2,700	2.5	50	Band Pass	—	587-2311-1-ND ***NEW!***	1.07	.90	.66	587-2311-2-ND ***NEW!***	4,000	261.25/M	FI168B250065-T
	2,495 ~ 2,690	2.1	50	Band Pass for WiMAX	—	587-2206-1-ND	1.09	.93	.63	587-2206-2-ND	4,000	245.00/M	FI168B259762-T
	2,495 ~ 2,690	2.2	50	Band Pass for WiMAX	—	587-2207-1-ND	1.09	.93	.63	587-2207-2-ND	4,000	245.00/M	FI168B259763-T
	470 ~ 770	2.5	50	Low Pass for Digital TV	—	587-2216-1-ND	1.35	1.13	.83	587-2216-2-ND	4,000	330.00/M	FI168L062005-T
	470 ~ 770 2,300 ~ 2,700	2.0	50	Low Pass for WiMAX	—	587-2217-1-ND	1.35	1.13	.83	587-2217-2-ND	4,000	330.00/M	FI168L259764-T
7	2,400 ~ 2,500	1.7	50	Low Pass for W-LAN and Bluetooth	—	587-2415-1-ND ***NEW!***	1.30	1.07	.86	587-2415-2-ND ***NEW!***	10,000	338.00/M	FI105L250014-T

Fig. 5

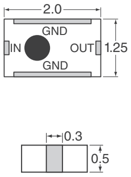

Fig. 6

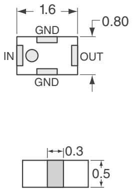

Fig. 7 ***NEW!***

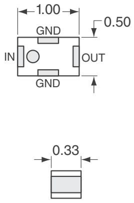

TDK Chip Antenna

Specifications: • Operating Temperature: -30°C ~ 85°C • Storage Temperature: -40°C ~ 85°C • Polarization: Linear (Mixed)

Dimensions in mm

Fig. 1

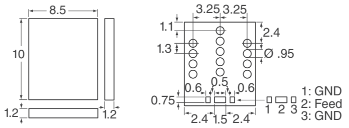

Fig. 2

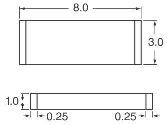

Operation Frequency (GHz)	Antenna Gain (dBi)	Imped-ance (Ω)	VSWR (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	TDK Part No.
Fig. 1 — UWB Chip Antenna								
3.1 ~ 5.2	2	50	3	445-3385-1-ND	7.72	5.72	4.58	ANT1085-4R1-01A
3.1 ~ 5.2	2	50	3	445-3385-2-ND‡	6006.00/1,500			ANT1085-4R1-01A
Fig. 2 — Bluetooth, WLAN Chip Antenna								
2.4	2	50	2	445-3719-1-ND	3.34	2.98	2.60	ANT8030-2R4-01A
2.4	2	50	2	445-3719-2-ND‡	3900.00/3,000			ANT8030-2R4-01A

‡ Tape and Reel

Horn Antenna

This antenna is a wide band, double-ridged horn used to transmit and receive microwave signals over the frequency range of 1GHz ~ 18GHz. The HRN-0118 generates high electric fields required for radiated immunity and emissions measurements and features high gain, low VSWR, moderate power handling, and a robust mechanical design. **Specifications:** • VSWR <1.5:1 Average • Polarization: Linear • Power Handling: 300W • Feedpoint Impedance: 50Ω Nominal • RF Connector: Type "N" Female

445-3409-ND (TDK Part Number HRN-0118).. **$4923.75**

Hybrid Log Periodic Antenna

This antenna is an extended frequency broadband antenna intended for measurements in an anechoic chamber, open area test site, or *in situ*. It's 30MHz ~ 3.0GHz range makes it especially suited for wideband testing of radiated emissions from electrical and electronic equipment. This new design offers unequaled performance over this range for an antenna of this form factor. The HLP-3003C uses a unique low frequency hybrid element to extend the low frequency performance while maintaining a compact size. The low frequency elements of the antenna are removable for convenient storage.

Features: • Efficient design especially suited for compact chambers • Shortest antenna length available for the operating frequency range • Moderate power handling capability • Individually calibrated according to ANSI C63.5 with signed certificate of calibration **Specifications:** • Frequency Range: 30MHz ~ 3.0GHz • Gain: 6dBi Typical • VSWR: 2:1 Average • Polarization: Linear • Power Handling: 100W • Input Impedance: 50Ω Nominal • Construction: Aluminum with Gold Chromate Finish • RF Connector: Type "N" Female

445-3408-ND (TDK Part Number HLP-3003C). **$5556.25**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! telegesis ZigBee® Modules and Development Tools

The **ETRX2** module is a low power 2.4GHz ISM band transceiver based on the Ember EM250 single chip ZigBee/IEEE802.15.4 solution. Utilizing the EmberZNet mesh and self-healing stack, the ETRX2 enables you to add powerful wireless networking capability to your products and quickly bring them to market. The module's unique AT-style command line interface allows you to quickly integrate meshing radio technology without complex software engineering.

The **ETRX2-PA** module is a power amplified 2.4GHz ISM band transciever based on the Ember EM250 single chip ZigBee/IEEE802.15.4 solution. The form factor of the ETRX2-PA is identical to the ETRX2, so either module can be used depending on the range requirements of the particular application. Utilizing the EmberZNet meshing and self-healing stack, the ETRX2-PA enables you to add powerful wireless networking capability to your products and quickly birng them to market. The module's unique AT-style command line interface allows you to quickly integrate meshing radio technology without complex software engineering.

The **EXTRX357** modules are low power 2.4GHz ZigBee modules, based on the latest Ember EM357 single chip ZigBee/IEEE802.15.4 solution. They have been designed to be intergrated into any device without the need for RF experience and expertise. Utilizing the EmberZNet ZigBee stack, the ETRX35x enables you to add powerful wireless networking capability to your products and quickly bring them to market. The module's unique AT-style command line interface allows designers to quickly intergrate ZigBee technology without complex software engineering. For custom application development the ETRX35x series integrates with ease into Embers InSight development environment.

The **ETRX357-DVK** development kit is an ideal starting point for development and evaluation of the ETRX357 series low power 2.4GHz ZigBee modules. The ETRX357 module is based on the third generation Ember EM357 chipset offering the industry's highest wireless networking performance and application code space at the lowest power consumption. The module's unique AT-style command line interface allows designers to quickly integrate ZigBee technology without complex software engineering. For custom application development the ETRX35x development kit integrates with ease into Ember's InSight development environment.

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Pricing 100	Telegesis Part No.
1	Low power EM250 with Chip Antenna	920-1000-1-ND	17.34	17.04	920-1000-2-ND	1521.45	ETRX2
	Power amplified ZigBee Module with Chip Antenna	920-1001-1-ND	23.22	22.82	920-1000-2-ND	1521.45	ETRX2-PA
—	ETRX2 USB Stick	920-1002-ND†	38.46	37.79	—	—	ETRX2USB
	ETRX2-PA USB Stick	920-1003-ND†	44.71	43.93	—	—	ETRX2USB-PA
	Ethernet Access Point	920-1004-ND‡	192.84	189.46	—	—	EAP-E
	Ethernet Access Point	920-1005-ND‡	204.69	201.10	—	—	EAP-E-PA
2	Low power ZigBee Modules with Chip Antenna	920-1006-1-ND	19.39	19.06	920-1006-2-ND	1701.00	ETRX357
	Low power ZigBee Modules with PA LNA, Chip Antenna	920-1007-1-ND§	27.21	26.74	920-1007-2-ND	2386.80	ETRX357LR
	Low power ZigBee Modules with PA LNA, U.FL Connector	920-1008-1-ND	27.21	26.74	920-1008-2-ND	2386.80	ETRX357HR-LR
—	ETRX35xDVK Development kit	920-1009-ND	348.13	342.02	—	—	ETRX3DVKA357

† Tray ‡ Box § Parts may come in Cut Tape or Bulk

Fig. 1

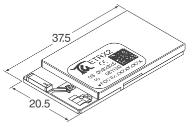

Fig. 2

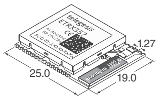

TEXAS INSTRUMENTS RF Products

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Texas Instruments Part No.
Low-Power Sub 1GHz RF Transceiver	20-QFN	296-23631-ND‡◆	5.74	4.62	4.21	—	—	—	CC1101RTK
Low-Power SoC 1GHz RF Transceiver and USB Controller	36-QFN	296-23632-ND‡◆	8.38	6.87	6.20	—	—	—	CC1110F32RSP
850MHz ~ 950MHz RF Front End	16-VQFN	296-25826-1-ND◆ ***NEW!***	7.05	5.76	5.17	296-25826-2-ND◆ ***NEW!***	250	1087.00	CC1190RGVT
Low-Power SoC 2.4GHz RF Transceiver and USB Controller	36-QFN	296-23633-ND‡◆	7.88	6.46	5.83	—	—	—	CC2510F32RSP
SoC IEEE 802.15.4 and ZigBee 2.4GHz RF Transceiver	40-QFN	296-25300-1-ND◆ ***NEW!***	9.01	7.48	6.80	296-25300-2-ND◆ ***NEW!***	250	1445.00	CC2530F32RHAT
SoC IEEE 802.15.4 and ZigBee 2.4GHz RF Transceiver	40-QFN	296-25301-1-ND◆ ***NEW!***	9.41	7.81	7.10	296-25301-2-ND◆ ***NEW!***	250	1508.75	CC2530F64RHAT
USB SoC IEEE 802.15.6 and ZigBee 2.4GHz RF Transceiver	40-QFN	296-25186-1-ND◆ ***NEW!***	13.12	10.89	9.90	296-25186-2-ND◆ ***NEW!***	250	2103.75	CC2531F256RHAT
RFID Front End 2.4GHz	16-QFN	296-23853-1-ND◆	5.25	4.29	3.85	296-23853-2-ND◆	250	809.50	CC2590RGVT
2.4GHz RF Front End	16-QFN	296-25327-1-ND◆ ***NEW!***	5.25	4.29	3.85	296-25327-2-ND◆ ***NEW!***	2,500	2327.50/M	CC2591RGVR
RFID Front End 2.4GHz	16-QFN	296-23603-1-ND◆	5.85	4.78	4.29	296-23603-2-ND◆	250	902.00	CC2591RGVT
2.4GHz SoC for Wireless Digital Audio Streaming	40-VQFN	296-27249-1-ND◆ ***NEW!***	11.00	9.13	8.30	296-27249-2-ND◆ ***NEW!***	250	1763.75	CC8520RHAT
Programmable, Wideband Crest Factor Reduction Processor	256-BGA	296-20702-ND‡◆	75.49	67.49	64.05	—	—	—	GC1115IZDJ
High-Density Digital Upconverter	388-BGA	296-20745-ND‡◆	128.86	116.19	112.39	—	—	—	GC5318IZED
Wideband Digital Predistortion Transmit Processor	352-BGA	296-24944-ND‡◆ ***NEW!***	99.20	88.35	83.70	—	—	—	GC5322IZND
Wideband Digital Predistortion Transmit Processor	352-BGA	296-24133-ND‡◆	89.60	79.80	75.60	—	—	—	GC5325IZND
Low-Power Wideband Digital Predistortion Transmit Processor	484-BGA	296-25336-ND‡ ***NEW!***	89.60	79.80	75.60	—	—	—	GC5328IZER
LF RFID Base Station IC	16-SOIC	296-24674-1-ND◆ ***NEW!***	9.38	7.79	7.08	296-24674-2-ND◆ ***NEW!***	2,500	4602.00/M	TMS3705A1DRG4
2.5GHz, High Dynamic Range, Low-Noise Down-Converter	20-VQFN	296-19795-1-ND◆	17.60	14.92	13.77	296-19795-2-ND◆	250	2964.50	TRF1115IRGPT
2.5GHz, Integrated Up-Converter	32-VQFN	296-19796-1-ND◆	15.87	13.46	12.42	296-19796-2-ND◆	2,500	8797.50/M	TRF1122IRTMR
2.5GHz, Integrated Up-Converter	32-VQFN	296-23069-1-ND◆	18.29	15.51	14.31	296-23069-2-ND◆	250	3080.75	TRF1122IRTMT
2.5GHz, 1W Power Amplifier	32-VQFN	296-23070-1-ND◆	15.76	13.36	12.33	296-23070-2-ND◆	250	2654.50	TRF1123IRTMT
Dual VCO/PLL Synthesizer with IF Down-Converter	48-VQFN	296-19314-1-ND◆	34.76	31.29	28.68	296-19314-2-ND◆	250	6300.25	TRF1212IRGZT
3.5GHz, High Dynamic Range, Low-Noise Down-Converter	20-VQFN	296-19289-1-ND◆	17.60	14.92	13.77	296-19289-2-ND◆	250	2964.50	TRF1216IRGPT
Dual VCO/PLL Synthesizer with IF Up-Converter	48-VQFN	296-19290-1-ND◆	39.70	35.73	32.76	296-19290-2-ND◆	250	7195.75	TRF1221RGZT
3.5GHz, Integrated Up-Converter	32-VQFN	296-19291-1-ND◆	18.29	15.51	14.31	296-19291-2-ND◆	250	3080.75	TRF1222IRTMT
3.5GHz, 1W Power Amplifier	32-VQFN	296-23071-1-ND◆	13.23	11.22	10.35	296-23071-2-ND◆	250	2228.25	TRF1223IRTMT
2GHz, Low Voltage Synthesizer	20-TSSOP	296-1969-5-ND‡	5.20	4.18	3.81	—	—	—	TRF2052PW
Dual-Band IQ/IF Transceiver with Dual VCO Synthesizers	56-VQFN	296-19797-1-ND◆	17.80	15.10	13.94	296-19797-2-ND◆	250	2999.25	TRF2432IRTQT
High-Power Dual-Band RF Front-End	40-QFN	296-21353-1-ND◆	22.90	20.61	18.90	296-21353-2-ND◆	250	4150.75	TRF2436IRTBT
IF FDX Transceiver 165 ~ 175MHz/330 ~ 350MHz	80-HTQFP	296-25133-5-ND‡◆ ***NEW!***	48.10	41.60	39.00	—	—	—	TRF2443IPFP
0.4GHz ~ 1.5GHz Quadrature Modulator	16-VQFN	296-17198-ND‡◆	13.49	11.35	10.43	—	—	—	TRF3701IRHC
1.5GHz ~ 2.5GHz Quadrature Modulator	16-VQFN	296-17350-ND‡◆	17.71	14.90	13.69	—	—	—	TRF3702IRHC
0.4GHz ~ 4GHz Quadrature Modulator	24-QFN	296-20731-1-ND◆	13.11	11.12	10.26	296-20731-2-ND◆	250	2208.75	TRF370315IRGET
0.4GHz ~ 4.4GHz Quadrature Modulator	24-VQFN	296-23336-1-ND◆	14.15	12.00	11.07	296-23336-2-ND◆	250	2383.25	TRF370317IRGET
0.4GHz ~ 4GHz Quadrature Modulator	24-QFN	296-21288-1-ND◆	13.11	11.12	10.26	296-21288-2-ND◆	250	2208.75	TRF370333IRGET
1700MHz ~ 6000MHz Integrated IQ Demodulator	48-VQFN	296-27207-1-ND◆ ***NEW!***	25.30	22.77	20.88	296-27207-2-ND◆ ***NEW!***	250	4585.75	TRF371135IRGZT
PLL Frequency Synthesizer	16-TSSOP	296-16941-5-ND‡◆	8.13	6.67	6.02	—	—	—	TRF3750IPW
High-Performance Integer-N PLL Frequency Synthesizer	20-VQFN	296-17552-5-ND‡◆	8.88	7.28	6.57	—	—	—	TRF3750IRGP
420MHz ~ 450MHz Single-Chip RF Transmitter	24-TSSOP	296-11056-5-ND‡◆	6.78	5.45	4.97	—	—	—	TRF4400PW
850MHz ~ 950MHz Single-Chip RF Transmitter	24-TSSOP	296-11057-5-ND‡◆	5.24	4.21	3.84	—	—	—	TRF4900PW
Single-Chip Multiband RF Transmitter	24-TSSOP	296-17876-5-ND‡◆	5.24	4.21	3.84	—	—	—	TRF4903PW
902MHz ~ 928MHz Single-Chip RF Transceiver	48-LQFP	296-14059-1-ND◆	8.45	7.02	6.38	296-14059-2-ND◆	1,000	4306.50	TRF5901PTR
850MHz ~ 950MHz Single-Chip RF Transceiver	48-LQFP	296-11058-ND‡◆	7.45	6.11	5.52	—	—	—	TRF6900APT
860MHz ~ 930MHz Single-Chip RF Transceiver	48-LQFP	296-12242-ND‡	7.55	6.20	5.59	—	—	—	TRF6901PT
Single Chip Multiband RF Transceiver	48-LQFP	296-17391-ND‡◆	5.60	4.50	4.10	—	—	—	TRF6903PT
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19301-5-ND‡◆	5.96	4.80	4.37	—	—	—	TRF7900APW
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19302-5-ND‡◆	5.88	4.73	4.31	—	—	—	TRF7900PW
RFID Front End 13.56MHz	32-QFN	481-1111-1-ND◆	7.69	6.38	5.80	481-1111-2-ND◆	250	1232.50	TRF7960RHBT
RFID Front End 13.56MHz	32-QFN	481-1112-1-ND◆	6.90	5.64	5.06	481-1112-2-ND◆	3,000	3059.00/M	TRF7961RHBR

‡ Bulk ◆ ***RoHS Compliant***

NEW! Ultra Low Power Microcontroller

The CC430Fxxxx series are microcontroller system-on-chip configurations combining the excellent performance of the state-of-the-art CC1101 <1-GHz RF transceiver with the MSP430 CPUXV2, up to 32kB of in-system programmable flash memory, up to 4kB of RAM, two 16-bit timers, a high performance 12-bit A/D converter with eight external inputs plus internal temperature and battery sensors, comparator, universal serial communication interfaces (USCI), 128-bit AES security accelerator, hardware multiplier, DMA, real-time clock module with alarm capabilities, and up to 44 I/O pins.

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Texas Instruments Part No.
16B, 8K, with RF Transceiver Core	48-QFN	296-25328-5-ND	10.38	8.51	7.68	—	—	—	CC430F5133IRGZ
16B, 16K, with RF Transceiver Core	48-QFN	296-25329-5-ND	10.75	8.82	7.96	—	—	—	CC430F5135IRGZ
16B, 32K, with RF Transceiver Core	48-QFN	296-25330-5-ND	11.00	9.25	8.50	—	—	—	CC430F5137IRGZ
16B, 16K with RF Transceiver Core	64-VQFN	296-27296-5-ND	10.88	8.92	8.05	—	—	—	CC430F6125IRGC
16B, 16K, with RF Transceiver Core	64-VQFN	296-27507-1-ND†	11.53	9.57	8.70	296-27507-2-ND	2,000	5655.00/M	CC430F6125IRGCR
16B, 32K with RF Transceiver Core	64-VQFN	296-27297-5-ND	11.50	9.43	8.51	—	—	—	CC430F6126IRGC
16B, 32K with RF Transceiver Core	64-VQFN	296-27298-5-ND	11.11	9.35	8.59	—	—	—	CC430F6127IRGC
16B, 16K with RF Transceiver Core	64-VQFN	296-27299-5-ND	11.63	9.54	8.61	—	—	—	CC430F6135IRGC
16B, 16K, with RF Transceiver Core	64-VQFN	296-27508-1-ND†	12.32	10.23	9.30	296-27508-2-ND	2,000	6045.00/M	CC430F6135IRGCR
16B, 32K with RF Transceiver Core	64-VQFN	296-25824-5-ND	11.77	9.90	9.10	—	—	—	CC430F6137IRGC
16B, 32K with RF Transceiver Core	64-VQFN	296-25823-1-ND†	12.31	10.44	9.63	296-25823-2-ND	250	2073.25	CC430F6137IRGCT
16B, 32K with RF Transceiver Core	64-VQFN	296-25822-1-ND†	12.31	10.44	9.63	296-25822-2-ND	2,000	6821.00/M	CC430F6137IRGCR
CC430-based Wireless Development System Watch Tool, 433 MHz		296-25450-ND	50.00	—	—	—	—	—	EZ430-CHRONOS-433
CC430-based Wireless Development System Watch Tool, 868 MHz		296-25449-ND	50.00	—	—	—	—	—	EZ430-CHRONOS-868
CC430-based Wireless Development System Watch Tool, 915 MHz		296-25344-ND	50.00	—	—	—	—	—	EZ430-CHRONOS-915

† Cut Tape

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Transceivers/Transmitters

CC1110 and CC2510 Mini Development Kits: These System-on-Chip (SoC) devices are designed for low power wireless applications. CC1110 operates in the sub-1GHz unlicensed ISM bands while the CC2510 operates in the 2.GHz unlicensed ISM bands. Both combine the excellent performance of the state-of-the-art CC1101 and CC2500 RF transceivers respectively with an industry-standard enhanced 8051 MCU, up to 32kB of in-system programmable flash memory and up to 4kB of RAM, and many other powerful features. **Kits Include:** • Two SmartRF CC1110 or SmartRF CC2510 target boards • One CC Debugger including the necessary cables and connector converters • Four AAA batteries • CD with Evaluation version of the IAR EW8051 • Documentation

CC1111EMK868-915 Kit: This evaluation module/USB dongle is designed to help the user to achieve objectives as quickly as possible. A CC1110DK is needed to program the CC1111 USB dongle (the CC1110DK must be ordered separately). The CC1111 868 and 915MHz USB dongle can be used to test the communications without having to connect the CC1101/CC1150/CC1110 development kit to the PC. **Kit Includes:** • One CC1111 USB dongle with chip antenna for 868 and 915MHz operation

CC2420EMK Kit: CC2420 is a true single chip 2.4GHz 802.15.4 compliant RF transceiver designed for low-power and low-voltage wireless applications. The CC2420EMK evaluation kit in combination with a CC2420 development kit makes it easy for the user to evaluate the RF performance of the CC2420. **Kit Includes:** • Two CC2420 evaluation modules and two antennas. The CC2420EM are add-on daughter boards that require a CC2420DK or CC2420DBK development kit for evaluation and development.

CC2430DK Kit: The SmartRF®04DK development kit includes a number of functions and applications that allows quick testing of the RF interface and peripherals of the chip. Right out of the box, the kit can be used for range testing using the SmartRF®04DK products. The radio can be easily configured to measure sensitivity, output power and other RF parameters. **Kit Includes:** • Two SmartRF®04EB • Two CC2430EM evaluation modules • Two 2.4GHz antennas • Two USB cables • One 10-wire flat cable for using SmartRF®04EB as emulator for external target systems • Quick start guide • IAR EW8051 C-compiler with C-SPY debugger (30+30 days evaluation license)

CC2500EMK Kit: These evaluation modules in combination with a motherboard from a CC2500 development kit are designed to help the user to achieve objectives as quickly as possible. Right out of the box the user can do range testing (PER testing) and transfer data from one PC to another using the SmartRF®04DK. **Kit Includes:** • Two CC2500EM evaluation modules • Two antennas

CC2533 Kit: The CC2533 is an optimized System-on-Chip (SOC) solution for IEEE 802.15.4 based remote-control systems. It enables single-chip remote controls to be built with low bill-of-material cost when used as a flexible SoC. It also provides a simple path to adding RF4CE capability to a device or target when used in the wireless network processor configuration of the RemoTI RF4CE stack. Robust network nodes can be built with very low total bill-of-material costs.

CC2591EMK Kit: The CC2591EM can be used as an add-on to your existing 2.4GHz system to increase output power to +20dBm and improve receiver sensitivity up to 6 dB. The kit requires that you already have another complete 2.4GHz development kit or RF board. **Kit Includes:** • Two CC2591EM Evaluation Modules with the CC2591 and required external components • Two 2.4GHz antennas

eZ430-RF2480 Demo Kit: A complete USB-based MSP430 wireless demonstration tool providing all the hardware and software to evaluate the CC2480 2.4GHz ZigBee network processor and the MSP430F2274 microcontroller. **Kit Includes:** • Three CC2480 Target Boards • One eZ430 USB Emulator Board • Two AAA eZ430 Battery Boards (batteries included) • ZASA installer with Project files and Quick Start Guide • eZ430-RF2480 Sensor Monitor Installer • ZigBee Documentation

eZ430-RF2500T Target Board: An out-of-the-box wireless system that may be used with the USB debugging interface, as a stand-alone system with or without external sensors, or may be incorporated into an existing design.

PAN1315 Module Kit: The PAN1315 Evaluation Module Kit (EMK) is a highly versatile, advanced TI Bluetooth® development tool. The kit, when coupled with the MSP430F5438 Experimenter Board, enables customer's early software and hardware prototyping capabilities for wireless embedded applications. The tool includes 2 PAN1315ETU's (Easy to Use) boards each containing a Panasonic PAN1315 Bluetooth 2.1+EDR HCI Module, on board antenna and RF thru-line connector.

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Texas Instruments Part No.
Single Chip Very Low Power RF Transceiver	28-TSSOP	296-19457-5-ND◆	11.55	9.72	8.93	—	—	—	CC1000PW
Single Chip Very Low Power RF Transceiver	28-TSSOP	296-19576-1-ND†◆	12.59	10.45	9.50	296-19576-2-ND◆	2,500	6175.00/M	CC1000PWR
Single Chip Very Low Power RF Transceiver	28-XCEPT	296-19458-ND◆	11.00	9.02	8.14	—	—	—	CC1000YZ
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19459-ND◆	19.36	16.28	14.96	—	—	—	CC1010PAG
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19578-1-ND†◆	18.40	15.60	14.40	296-19578-2-ND◆	1,500	10640.00/M	CC1010PAGR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19579-1-ND†◆	9.14	7.59	6.90	296-19579-2-ND◆	2,500	4485.00/M	CC1020RUZR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-24220-ND◆	8.63	7.08	6.39	—	—	—	CC1020RUZ
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19580-1-ND†◆	8.48	7.04	6.40	296-19580-2-ND◆	2,500	4160.00/M	CC1021RSSR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-VQFN	296-25376-5-ND◆ ***NEW!***	8.00	6.56	5.92	—	—	—	CC1021RUZ
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19462-5-ND◆	6.58	5.29	4.82	—	—	—	CC1050PW
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19581-1-ND†◆	6.30	5.15	4.62	296-19581-2-ND◆	2,500	2793.00/M	CC1050PWR
Single Chip Low Power RF Transmitter for Narrowband Systems	20-VQFN	296-25722-1-ND†◆ ***NEW!***	5.85	4.78	4.29	296-25722-2-ND◆ ***NEW!***	3,000	2594.00/M	CC1070RGWR
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-25930-5-ND◆ ***NEW!***	6.02	4.84	4.41	—	—	—	CC1070RSQ
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-19582-1-ND†◆	5.85	4.78	4.29	296-19582-2-ND◆	5,000	2486.00/M	CC1070RSQR
Low Power Sub-1GHz RF Transceiver	20-QFN	296-24342-1-ND†◆	5.70	4.66	4.18	296-24342-2-ND◆	3,000	2527.00/M	CC1100ERTKR
Single Chip Low Power Sub-1GHz RF Transceiver	20-QFN	296-25763-5-ND◆ ***NEW!***	6.44	5.18	4.72	—	—	—	CC1100RTK
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19583-1-ND†◆	6.15	5.03	4.51	296-19583-2-ND◆	3,000	2727.00/M	CC1100RTKR
Low Power Sub-1GHz RF Transceiver	32-QFN	296-25496-1-ND†◆ ***NEW!***	7.29	6.05	5.50	296-25496-2-ND◆ ***NEW!***	3,000	3575.00/M	CC1101IRHBRG4Q1
Low Power Sub-1GHz RF Transceiver	32-QFN	296-25498-1-ND†◆ ***NEW!***	7.95	6.60	6.00	296-25498-2-ND◆ ***NEW!***	3,000	3900.00/M	CC1101TRHBRG4Q1
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-21981-1-ND†◆	5.55	4.54	4.07	296-21981-2-ND◆	3,000	2461.00/M	CC1101RTKR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22740-1-ND†◆	8.08	6.71	6.10	296-22740-2-ND◆	2,500	3965.00/M	CC1110F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22684-1-ND†◆	8.61	7.15	6.50	296-22684-2-ND◆	2,500	4225.00/M	CC1111F32RSPR
Low Power UHF Sub-1GHz RF Receiver	32-QFN	296-25499-1-ND†◆ ***NEW!***	6.75	5.52	4.95	296-25499-2-ND◆ ***NEW!***	3,000	2993.00/M	CC1131IRHBRG4Q1
Low Power UHF Sub-1GHz RF Receiver	32-QFN	296-25500-1-ND†◆ ***NEW!***	7.16	5.94	5.40	296-25500-2-ND◆ ***NEW!***	3,000	3510.00/M	CC1131QRHBRG4Q1
Low Power UHF Sub-1GHz RF Receiver	32-QFN	296-25501-1-ND†◆ ***NEW!***	6.63	5.50	5.00	296-25501-2-ND◆ ***NEW!***	3,000	3250.00/M	CC1131TRHBRG4Q1
Single Chip Low Cost Low Power RF Transmitter	16-QFN	296-19584-1-ND†◆	3.30	2.70	2.42	296-19584-2-ND◆	2,500	1463.00/M	CC1150RSTR
Low Power Sub-1GHz RF Transmitter	32-QFN	296-25502-1-ND†◆ ***NEW!***	4.20	3.43	3.08	296-25502-2-ND◆ ***NEW!***	3,000	1862.00/M	CC1151IRHBRG4Q1
Low Power Sub-1GHz RF Transmitter	32-QFN	296-25503-1-ND†◆ ***NEW!***	5.10	4.17	3.74	296-25503-2-ND◆ ***NEW!***	3,000	2261.00/M	CC1151QRHBRG4Q1
Low Power Sub-1GHz RF Transmitter	32-QFN	296-25504-1-ND†◆ ***NEW!***	4.65	3.80	3.41	296-25504-2-ND◆ ***NEW!***	3,000	2062.00/M	CC1151TRHBRG4Q1
Single Chip 2.4GHz Low Cost Low Power RF Transceiver	48-QFN	296-21512-1-ND†◆	9.01	7.48	6.80	296-21512-2-ND◆	4,000	4420.00/M	CC2400RSUR
2.4GHz IEEE 802.15.4/ZigBee™ Ready RF Transceiver	48-QFN	296-19585-1-ND†◆	8.75	7.26	6.60	296-19585-2-ND◆	4,000	4290.00/M	CC2420RTCR
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-QFN	296-19585-5-ND◆	9.13	7.49	6.76	—	—	—	CC2420RTC
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-VQFN	296-19566-ND◆	9.13	7.49	6.76	—	—	—	CC2420ZRTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-VQFN	296-23008-ND◆	10.00	8.20	7.40	—	—	—	CC2430F32RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-VQFN	296-23009-ND◆	11.11	9.35	8.59	—	—	—	CC2430F64RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-VQFN	296-23430-5-ND◆	12.76	10.73	9.86	—	—	—	CC2430F128RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-VQFN	296-21950-1-ND†◆	12.54	10.63	9.81	296-21950-2-ND◆	2,500	6949.00/M	CC2430ZF128RTCR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-VQFN	296-21940-1-ND†◆	14.84	12.58	11.61	296-21940-2-ND◆	2,500	8224.00/M	CC2431ZRTCR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-VQFN	296-21980-1-ND†◆	14.84	12.58	11.61	296-21980-2-ND◆	2,500	8224.00/M	CC2431RTCR
Z-Accel 2.4GHz ZigBee Processor	48-VQFN	296-23580-ND◆	19.69	16.56	15.22	—	—	—	CC2480A1RTC
Z-Accel 2.4GHz ZigBee Processor	48-VQFN	296-23355-1-ND†◆	18.63	15.80	14.58	296-23355-2-ND◆	2,500	10328.00/M	CC2480A1RTCR
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19586-1-ND†◆	5.10	4.17	3.74	296-19586-2-ND◆	3,000	2261.00/M	CC2500RTKR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22556-1-ND†◆	7.55	6.27	5.70	296-22556-2-ND◆	2,500	3705.00/M	CC2510F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-25933-ND◆ ***NEW!***	8.38	6.87	6.20	—	—	—	CC2511F32RSP
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22557-1-ND†◆	8.08	6.71	6.10	296-22557-2-ND◆	2,500	3965.00/M	CC2511F32RSPR
2.4GHz IEEE 802.15.4/ZigBee RF Transceiver	28-VQFN	296-22996-1-ND†◆	6.45	5.27	4.73	296-22996-2-ND◆	250	994.50	CC2520RHDT
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	40-QFN	296-24407-1-ND†◆	9.81	8.14	7.40	296-24407-2-ND◆	250	1572.50	CC2530F128RHAT
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	40-QFN	296-24547-1-ND†◆ ***NEW!***	10.20	8.47	7.70	296-24547-2-ND◆ ***NEW!***	250	1636.25	CC2530F256RHAT
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee Remote Control Applications	40-VQFN	296-27658-1-ND†◆ ***NEW!***	8.75	7.26	6.60	296-27658-2-ND◆ ***NEW!***	250	1402.50	CC2533F32RHAT
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee Remote Control Applications	40-VQFN	296-27659-1-ND†◆ ***NEW!***	9.14	7.59	6.90	296-27659-2-ND◆ ***NEW!***	250	1466.25	CC2533F64RHAT
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee Remote Control Applications	40-VQFN	296-27660-1-ND†◆ ***NEW!***	8.22	6.82	6.20	296-27660-2-ND◆ ***NEW!***	2,500	4030.00/M	CC2533F96RHAR
Single Chip Low Cost Low Power RF Transceiver	16-QFN	296-19587-1-ND†◆	3.47	2.68	2.43	296-19587-2-ND	2,500	1336.50/M	CC2550RSTR
2.4GHz ZigBee Processor	48-VQFN	296-23313-1-ND†◆	18.63	15.80	14.58	296-23313-2-ND◆	2,500	10327.50/M	CCZACC06A1RTCR
Mini Development Kit for CC1110		296-25249-ND ***NEW!***	76.50	—	—	—	—	—	CC1110DK-MINI-868
Evaluation Module Kit for CC1111		296-22732-ND◆	50.00	—	—	—	—	—	CC1111EMK868-915
Evaluation Module for CC1190		296-27526-ND◆ ***NEW!***	101.00	—	—	—	—	—	CC1190EMK-915
Evaluation Module Kit for CC2420		296-22905-ND	148.61	—	—	—	—	—	CC2420EMK
Development Kit for CC2430		296-22912-ND◆	622.63	—	—	—	—	—	CC2430DK
Development Kit ZigBee for CC2430		296-23010-ND◆	1632.38	—	—	—	—	—	CC2430ZDK
Development Kit for CC2431		296-23004-ND◆	1109.23	—	—	—	—	—	CC2431DK
Evaluation Module Kit for CC2500		296-22903-ND◆	102.00	—	—	—	—	—	CC2500EMK
Development Kit for CC2500/CC2550DK		296-23077-ND◆	499.80	—	—	—	—	—	CC2500-CC2550DK
Mini Development Kit for CC2510		296-25250-ND ***NEW!***	76.50	—	—	—	—	—	CC2510DK-MINI
Evaluation Module Kit for CC2511		296-23155-ND◆	50.00	—	—	—	—	—	CC2511EMK
Evaluation Module Kit for CC2530		296-24578-ND◆	101.00	—	—	—	—	—	CC2530EMK
Development Kit for CC2530		296-24577-ND◆	305.00	—	—	—	—	—	CC2530DK
Development Kit ZigBee for CC2530		296-24576-ND◆	720.60	—	—	—	—	—	CC2530ZDK
Evaluation Module Kit for CC2591		296-24111-ND◆	101.00	—	—	—	—	—	CC2591EMK
Pure Path Wireless Development Kit		296-27533-ND◆ ***NEW!***	305.00	—	—	—	—	—	CC85XXDK
Demo Kit for CC2480		296-23357-ND◆	128.95	—	—	—	—	—	EZ430-RF2480
Target Board		296-23125-ND◆	20.40	—	—	—	—	—	EZ430-RF2500T
Development Kit RemoTI for CC2530		296-24579-ND◆	152.00	—	—	—	—	—	REMOTI-CC2530DK
50MHz ~ 6GHz Quadrature Modulator		296-27522-1-ND†◆ ***NEW!***	14.15	12.00	11.07	296-27522-2-ND◆ ***NEW!***	250	2383.25	TRF370417IRGET
Integrated IQ Demodulator		296-25654-1-ND†◆ ***NEW!***	25.30	22.77	20.88	296-25654-2-ND◆ ***NEW!***	250	4585.75	TRF371125IRGZT
Bluetooth® Module Kit for MSP430		296-27649-ND◆ ***NEW!***	99.00	—	—	—	—	—	PAN1315EMK

† Cut Tape ◆ ***RoHS Compliant***

TEXAS INSTRUMENTS
RFID

Low Frequency Transponders 134.2kHz

Dimensions in mm

Fig. 1

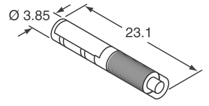

Case Material: Glass

Fig. 2

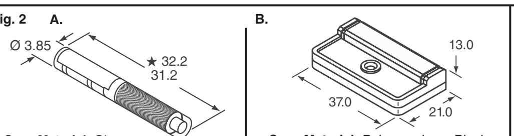

Case Material: Glass

Case Material: Polypropylene, Black

Fig. 3

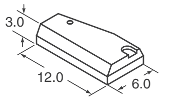

Case Material: Plastic Compound, Black

Fig. 4

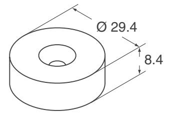

Case Material: Poly-Oxy-Methylene, Black

Fig. 5

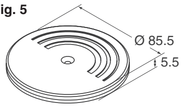

Case Material: Acrylate-Styrene-Acrylonitrile, Black

Fig. 6 ***NEW!***

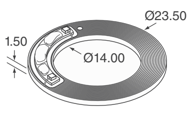

Fig. 7

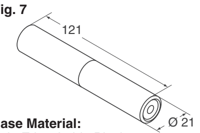

Case Material: Poly-Ether-Imide Black

Fig. 8

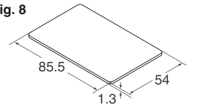

Case Material: PVC (Polyvinylchloride), White

Fig. 9

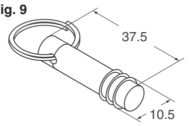

Case Material: Plastic (ABS)

Fig. 10

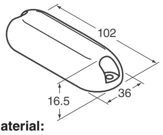

Case Material: Polypropylene, Black

Fig.	Functionality	Memory (Bits)	Memory (Pages)	Typical Reading Range (cm)	Operating Temperature (Read) (°C)	Operating Temperature (Program) (°C)	Digi-Key Part No.	Price Each			Tape and Reel▲		Texas Instruments Part No.
								1	25	100	Qty.	Pricing	
1	Read Only	64	1	≤60	-40 ~ 85	—	481-1007-ND	8.13	6.67	6.02	—	—	RI-TRP-RRHP-20
	Read Only	64	1	≤20‡	-25 ~ 70	—	481-1113-ND	5.99	4.82	4.39	—	—	RI-TRP-R9BK-20
	Read Only	64	1	≤60‡	-40 ~ 85	—	481-1109-1-ND◊◆	5.79	4.73	4.25	2,000	2567.00/M	RI-TRP-RR3P-30
	Read/Write	80†	1	≤60‡	-40 ~ 85	-40 ~ 70	481-1110-1-ND◊	7.08	5.79	5.20	2,000	3138.80/M	RI-TRP-WR3P-30
	Read Only	64	1	≤60‡	-25 ~ 70	—	481-1134-1-ND◆◊	5.04	4.12	3.70	2,000	2234.40/M	RI-TRP-REHP-30
	Read/Write	80†	1	≤60‡	-25 ~ 70	-25 ~ 70	481-1141-1-ND◆	5.40	4.41	3.96	2,000	2394.00/M	RI-TRP-WEHP-30
2A	Read/Write	80†	1	≤100‡	-25 ~ 85	-25 ~ 70	481-1003-ND◆	6.83	5.49	5.01	—	—	RI-TRP-WR2B-20
	Read Only	64	1	≤100‡	-25 ~ 85	—	481-1103-ND◆	5.60	4.50	4.10	—	—	RI-TRP-RR2B-30
	Read/Write	80†	1	≤100‡	-25 ~ 70	-25 ~ 70	481-1140-1-ND◆◊	5.55	4.54	4.07	2,000	2461.00/M	RI-TRP-WE2B-30
	Read Only	64	1	≤100‡	-25 ~ 70	—	481-1143-1-ND◆◊	5.19	4.24	3.81	2,000	2300.90/M	RI-TRP-RE2B-30
	SAMPT	1360†	17† R/W§	≤100‡	-25 ~ 85	-25 ~ 85	296-23957-1-ND◆◊★	10.87	9.02	8.20	2,000	5330.00/M	RI-TRP-IR2B-30
2B	Housing	—	—	—	-40 ~ 85	-40 ~ 85	296-23431-ND	1.55	1.25	1.13	—	—	RI-ACC-T006-00
3	Read/Write	88	4	≤20‡	-40 ~ 85	-40 ~ 85	296-23736-ND◆	7.13	5.85	5.28	—	—	RI-TRP-B9WK-05
	Read Only	64	1	≤20	-40 ~ 85	—	481-1009-ND◆	8.13	6.67	6.02	—	—	RI-TRP-R9WK-20
	Read/Write	50	4	≤20‡	-40 ~ 85	-40 ~ 85	296-23737-ND◆	8.90	7.30	6.59	—	—	RI-TRP-V9WK-00
	Read/Write	80	1	≤20‡	-40 ~ 85	-40 ~ 70	481-1108-ND	6.44	5.18	4.72	—	—	RI-TRP-W9WK-20
	Read/Write	208	3	≤20	-40 ~ 160	-40 ~ 85	296-24812-ND ***NEW!***	6.75	5.43	4.95	—	—	RI-TRP-M9WK-00
4	Read Only	64	1	≤60	-25 ~ 85	—	481-1131-ND◆	6.90	5.66	5.11	—	—	RI-TRP-R9QL-30
	Read/Write	80†	1	≤60‡	-25 ~ 70	-25 ~ 70	481-1136-ND◆	7.70	6.32	5.70	—	—	RI-TRP-W9QL-30
5	Read Only	64	1	≤150‡	-25 ~ 85	—	481-1133-ND◆	11.38	9.33	8.42	—	—	RI-TRP-R9UR-30
	Read/Write	80†	1	≤150‡	-25 ~ 70	—	481-1138-ND◆	12.20	10.01	9.03	—	—	RI-TRP-W9UR-30
6	Read Only	64	1	≤60	-25 ~ 70	-25 ~ 70	296-24811-ND◆ ***NEW!***	3.75	3.02	2.75	—	—	RI-INL-R9QM-30
7	Read Only	64	1	≤200‡	-25 ~ 85	—	481-1132-ND◆	25.00	21.25	19.69	—	—	RI-TRP-R9TD-30
	Read/Write	80†	1	≤200‡	-25 ~ 85	—	481-1137-ND◆	26.26	22.33	20.68	—	—	RI-TRP-W9TD-30
8	Read/Write	80†	1	≤100‡	-25 ~ 50▼	-25 ~ 50▼	481-1104-ND◆	7.25	5.95	5.37	—	—	RI-TRP-W4FF-30
	Read Only	64	1	≤100‡	-25 ~ 50▼	—	481-1129-ND◆	6.78	5.56	5.02	—	—	RI-TRP-R4FF-30
9	Read Only	64	1	≤60‡	-40 ~ 85	—	481-1135-ND◆	8.13	6.67	6.02	—	—	RI-TRP-RFOB-30
	Read/Write	80†	1	≤60‡	-40 ~ 85	-40 ~ 70	481-1142-ND◆	8.70	7.14	6.44	—	—	RI-TRP-WFOB-30
10	Read Only	64	1	≤120‡	-25 ~ 70∆	—	481-1015-ND◆	21.78	18.32	16.83	—	—	RI-TRP-R9VS-30
	Read/Write	80†	1	≤120‡	-25 ~ 70∆	-25 ~ 70∆	481-1016-ND◆	22.00	18.70	17.33	—	—	RI-TRP-W9VS-30
—	Evaluation Kit for TMS37157						296-25429-ND◆ ***NEW!***	203.00	—	—	—	—	EZ430-TMS37157

◆ ***RoHS Compliant*** ▲ For Tape and Reel part number, change 1-ND to 2-ND. ◊ Cut tape

† Recommendation: Split each 80 bit page into 64 user programmable bits plus a 16 bit wide CRC CCITT Block Check Character as is done by TI-RFID™ LF readers. ▼ Per ISO 7810 ‡ Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions. § 24 bits Selective Address width. ★ See drawing for dimensions. ∆ 0 ~ 70°C if used with RI-STU-MB2A/MB6A or RI-RFM-104B

High Frequency Transponder Inlays 13.56MHz

Dimensions in mm

Programming Cycles	Antenna Size Inch (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing▲ 5,000	Texas Instruments Part No.
					1	25	100		
Square – Fig. 1									
100,000	1.77 x 1.77 (45 x 45)	-25 ~ 70	-40 ~ 40	481-1146-1-ND	1.36	1.08	.97	—	RI-I11-110A-01
		-25 ~ 70	-40 ~ 40	481-1065-1-ND	1.22	.97	.87	428.00/M	RI-I11-112A-03
		-25 ~ 70	-40 ~ 40	481-1089-1-ND	1.22	.97	.87	428.00/M	RI-I11-112B-03
		-25 ~ 70	-40 ~ 40	481-1090-1-ND	1.00	.80	.72	351.00/M	RI-I11-114A-01
		-25 ~ 70	-40 ~ 40	481-1092-1-ND	1.00	.79	.72	350.00/M	RI-I11-114B-01
		-25 ~ 70	-40 ~ 40	481-1091-1-ND	1.06	.84	.76	370.00/M	RI-I11-114A-S1
		-25 ~ 70	-40 ~ 40	481-1093-1-ND	1.06	.84	.76	370.00/M	RI-I11-114B-S1
Rectangle – Fig. 1									
100,000	1.77 x 2.99 (45 x 76)	-25 ~ 70	-40 ~ 40	481-1144-1-ND	1.48	1.17	1.06	517.00/M	RI-I02-110A-01
		-25 ~ 70	-40 ~ 40	481-1066-1-ND	1.49	1.18	1.07	523.00/M	RI-I02-112A-03
		-25 ~ 70	-40 ~ 40	481-1082-1-ND	1.49	1.18	1.07	523.00/M	RI-I02-112B-03
		-25 ~ 70	-40 ~ 40	481-1083-1-ND	1.16	.92	.83	407.00/M	RI-I02-114A-01
		-25 ~ 70	-40 ~ 40	481-1085-1-ND	1.16	.92	.83	407.00/M	RI-I02-114B-01
		-25 ~ 70	-40 ~ 40	481-1084-1-ND	1.22	.97	.87	427.00/M	RI-I02-114A-S1
		-25 ~ 70	-40 ~ 40	481-1086-1-ND	1.22	.97	.87	427.00/M	RI-I02-114B-S1
	1.34 x 2.56 (34 x 65)	-25 ~ 70	-40 ~ 40	296-23399-1-ND◆	1.49	1.18	1.07	522.69/M	RI-I15-112B-03
	0.89 x 1.5 (22.5 x 38)	-25 ~ 70	-40 ~ 40	481-1067-1-ND	1.22	.97	.87	428.00/M	RI-I03-112A-03
		-25 ~ 70	-40 ~ 40	481-1087-1-ND	1.00	.79	.72	349.79/M	RI-I03-114A-01
		-25 ~ 70	-40 ~ 40	481-1088-1-ND	1.06	.84	.76	370.00/M	RI-I03-114A-S1
Circular – Fig. 1									
100,000	1.28 (32.5)	-25 ~ 70	-40 ~ 40	481-1099-1-ND	1.00	.79	.72	350.00/M	RI-I17-114A-01
		-25 ~ 70	-40 ~ 40	481-1100-1-ND	1.06	.84	.76	370.00/M	RI-I17-114A-S1
	0.95 (24.2)	-25 ~ 70	-40 ~ 40	481-1095-1-ND	1.22	.97	.87	428.26/M	RI-I16-112A-03
		-25 ~ 70	-40 ~ 40	481-1074-1-ND	1.22	.97	.87	428.00/M	RI-I17-112A-03
		-25 ~ 70	-40 ~ 40	481-1096-1-ND	1.00	.79	.72	350.00/M	RI-I16-114A-01
		-25 ~ 70	-40 ~ 40	481-1097-1-ND	1.06	.84	.76	370.00/M	RI-I16-114A-S1

▲ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

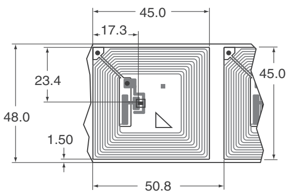

Square
(Rectangle and Circular Not Illustrated)

Fig. 2 ***NEW!***

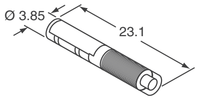

Fig.	Programming Cycles	Dimensions Inch (mm)	Weight (Grams)	Operating Temperature	Storage Temperature	Digi-Key Part No.	Price Each			Texas Instruments Part No.
							1	25	100	
1	100,000	3.37 x 2.13 x 0.03 (85.6 x 54 x 0.76)	5	-25°C ~ 50°C	-25°C ~ 50°C	481-1072-ND◆	3.50	2.82	2.57	RI-TH1-CB1A-00
	10,000	0.94 x 0.49 x 0.11 (24.0 x 12.45 x 2.7)	3	-25°C ~ 70°C	-25°C ~ 70°C	481-1080-5-ND	3.92	3.15	2.87	RI-INL-W9QK-30
2	100,000	ø0.87 x 0.12 (ø22 x 3)	2.1	-25°C ~ 90°C	-40°C ~ 120°C	296-24841-ND◆ ***NEW!***	3.11	2.50	2.28	RF-HDT-DVBB-N2
	100,000	ø0.87 x 0.12 (ø22 x 3)	2.1	-25°C ~ 90°C	-40°C ~ 120°C	296-24842-ND◆ ***NEW!***	2.20	1.78	1.60	RF-HDT-DVBE-N2

◆ ***RoHS Compliant***

Texas Instruments
RFID

NEW! Passive Low Frequency Kit and Transponder 134.2 kHz

Kit

The eZ430-TMS37157 is a complete USB-based MSP430 wireless development tool providing the hardware and software to evaluate the MSP430F2274 microcontroller and the TMS37157 passive low-frequency interface (PaLFI) RFID transponder. **Features:** • USB debugging and programming interface featuring a driverless installation and application backchannel • 14 available development pins • Highly integrated, ultra-low-power MSP430 MCU with 16-MHz performance • Two general-purpose digital I/O pins connected to green and red LEDs for visual feedback • Interruptible push button for user feedback

296-25429-ND (Texas Instruments # EZ430-TMS37157) **$203.00**

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Texas Instruments Part No.
Transponder	16-QFN	296-25428-1-ND	4.92	4.02	3.61	TMS37157IRSARG4
	16-QFN	296-25428-2-ND‡	6543.00/3,000			TMS37157IRSARG4

‡ Tape and Reel

Gen 2 Inlay and SMT EPC Gen 2 IC

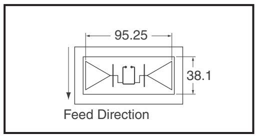

The Gen 2 Inlay is designed for ease of integration in the smart label conversion process. Gen 2 products are based on the EPCglobal™ Generation 2 specification with 96 bits of user programmable EPC™ memory field with read, write, and lock capabilities.
Features: 100% tested inlays **Operating Frequency**: (Inlay) 860MHz ~ 960MHz (IC) 840MHz ~ 960MHz

Antenna Size Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Texas Instruments Part No.
3.5 x 1 (88.90 x 25.40)	481-1078-1-ND	1.10	.87	.79	RI-UHF-00C01-03
	481-1078-2-ND‡	3700.00/10,000			RI-UHF-00C01-03

‡ Tape and Reel

Transponder Sheeting

This silicone sheeting can be applied to protect 32mm x 3.85mm glass. Transponders for shock intensive applications like sports timing, key-fobs, and vehicle tracking.
Specifications: • Usable For: 32mm TI-RFid Glass Transponder **• Material:** Silicone **• Color:** Transparent **• Operating Temperature:** -40°C ~ 85°C **• Dimension:** Diameter 6mm ±0.2mm x 35 ±1mm

481-1024-ND (Texas Instruments # RI-ACC-SHT3-00) .... **$.41**

HF Antenna 13.56MHz

Series 6000 Gate Antenna

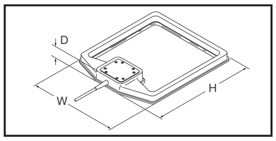

This antenna is a single-loop transmit/receive antenna with preset matching electronics for a transmitter frequency of 13.56MHz. **Specifications: • Impedance:** 50Ω ±10Ω **• Connector:** SMA male (50Ω) **• Cable:** Type: RG58; Length: 3.6m ±0.1m

Operating Temperature (°C)	Dimensions H x W x D (mm)	RF Power (Max.)	Digi-Key Part No.	Price Each	Texas Instruments Part No.
-25 ~ 55	337 x 322 x 38	8W	481-1051-ND	473.85	RI-ANT-T01A-00
-25 ~ 55	851 x 620 x 38	10W	481-1058-ND	955.50	RR-IDISC-ANT8-6-B

HF Antenna 13.56MHz

The elegant pad-antenna is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications.
Specifications: • Maximum RF Power: 1W **• Connector:** SMA-plug (50Ω) **• Operating Temperature:** 0°C ~ 55°C **• Dimensions:** 337mm x 237mm x 8.3mm

481-1056-ND (Texas Instruments # RR-IDISC-ANT34-24) **$237.80**

LF Antennas

134.2kHz

Series 2000

Stick Antennas

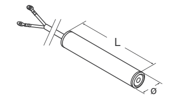

Gate Antennas

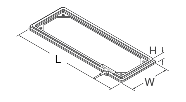

Inductance	Operating Temperature (°C)	Dimensions L x W x H (mm)	Cable Length (m)	Digi-Key Part No.	Price Each	Texas Instruments Part No.
Stick Antennas						
27µH @ 134.2kHz	-30 ~ 70	140 x ø21	1	481-1040-ND	112.00	RI-ANT-S01C-00
27µH @ 134.2kHz	-30 ~ 70	140 x ø21	1	481-1120-ND	133.44	RI-ANT-S01C-30
27µH @ 134.2kHz	-30 ~ 70	140 x ø21	3	481-1121-ND◆	148.69	RI-ANT-S02C-30
116µH @ 134.2kHz	-30 ~ 70	133 x ø21.3	0.1	481-1119-ND◆	100.00	RI-ANT-P02A-30
Gate Antennas						
27µH @ 134.2kHz	-30 ~ 60	715 x 270 x 25	1	481-1044-ND◆ ***NEW!***	174.85	RI-ANT-G01E-30
27µH @ 134.2kHz	-30 ~ 60	200 x 200 x 25	1	481-1043-ND	181.25	RI-ANT-G02E-30
26µH @ 134.2kHz	-30 ~ 60	1018 x 518 x 47	—	481-1118-ND◆	337.50	RI-ANT-G04E-30

◆ *RoHS Compliant*

Readers/Modules

Series 2000 LF Micro Reader

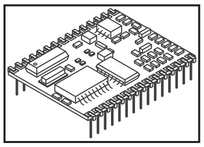

The Series 2000 Micro Reader is an intelligent module that provides all RF and control functions in order to communicate with 134.2kHz HDX/FSK transponders and a host application. It is designed as a 30-pin dual-in-line printed circuit board. The Series 2000 Micro Reader is equipped with a serial communication interface and works together with a 47µH low-Q antenna that eliminates the need to tune the system to resonance.

Specifications: • Operating Temperature: -20°C ~ 50°C **• RF Transmit Frequency:** 134.2kHz **• Power Supply:** 5VDC, regulated at 100mA **• Communications Interface:** Serial Communications Interface (SCI) **• Antenna:** 47µH **• Transponder Types:** 134.2kHz HDX/FSK **• Dimensions (mm):** 38.3 x 29.3 x 13.5

481-1029-ND (Texas Instruments # RI-STU-MRD1-30) **$86.40**

Series 2000 LF Control Module

The Series 2000 Control Module is the interface between the TI-RFid Radio Frequency Module RI-RFM-007B or RI-RFM-008B and the Host. It decodes the received RF signals into the transponder's identification number, checks the validity and handles the conversion to a standard serial interface protocol. In addition it can store up to 909 reading transactions into the buffer. It is offered with two different serial interfaces, the RI-CTL-MB2B-30 for point-to-point communication via an RS232 interface and the RI-CTL-MB6B-30 for point-to-multipoint communication via RS422/485 interface. It has two open collector outputs and eight configure able digital input/outputs that can be defined by the user.

Specifications: • Operating Temperature: 0°C ~ 70°C **• Power Supply:** 7 ~ 25VDC, regulated **• Communication Interface:** RS232 (RI-CTL-MB2B-30) RS422/485 (RI-CTL-MB6B-30) **• Dimensions (mm):** 93 x 82 x 33

481-1122-ND (Texas Instruments # RI-CTL-MB2B-30) RS232 .... **$261.00**
481-1123-ND (Texas Instruments # RI-CTL-MB6B-30) RS422/485 .... **$261.00**

Series 2000 LF Reader

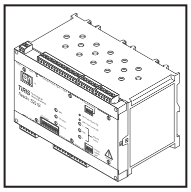

The Series 2000 Reader S251B provides all RF and control functions to communicate with 134.2kHz HDX/FSK transponders. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, decodes and checks the received transponder data and transmits it via a standard serial interface (RS232, RS422/485). The reader includes a Dynamic Auto Tuning (DAT) function that automatically tunes a standard antenna to resonance and keeps it tuned during operation.

Specifications:• Operating Temperature: -20°C ~ 70°C **• RF Transmit Frequency:** 134.2kHz **• Power Supply:** 10 ~ 24VDC, regulated **• Communications Interface:** RS232, RS422/485 **• Antenna Tuning Range:** 26 ~ 27.9µH (Dynamic Auto Tuning) **• Transponder Type:** 134.2kHz HDX/FSK **• Dimensions (mm):** 200 x 120 x 120

481-1127-ND (Texas Instruments # RI-STU-251B-30) **$734.50**

High Performance LF Radio Frequency Modules

Features: Common: • Variable power supply range • Synchronization control in multi-reader arrays • High power output **Remote Antenna RFM:** • (RI-RFM-008B-30) Supports antenna cable lengths up to 120 meters • Capacitive and inductive tuning to resonance

Specifications: • Operating Temperature: -25°C ~ 70°C **• Power Supply:** 7 ~ 24VDC regulated (If switching power supply is used, the frequency must be > 200kHz) **• RF Transmit Power:** To be set by pulse width to comply with PTT/FCC regulations **• RF Transmit Frequency:** 134.2kHz **• Antenna Tuning Range:** 26 ~ 27.9µH (8 ~ 80µH including cable for RI-ACC-008B-30) **• Dimensions (mm):** 89 x 93 x 44 (115 x 70 x 27 for RI-ACC-008B-30)

Recommended Accessories: Digital Reader Module RI-CTL-010A (for RI-RFM-007B-30 and RI-RFM-008B-30) Antenna Tuning Module RI-ACC-008B (for RI-RFM-008B-30)

481-1125-ND (Texas Instruments # RI-RFM-007B-30) Standard RFM **$291.81**
481-1126-ND (Texas Instruments # RI-RFM-008B-30) Standard RFM **$273.69**
296-23404-ND (Texas Instruments # RI-ACC-008B-30) Antenna Tuning Board **$104.00**

Series 2000 LF Antenna Tuning Indicator

Antenna Tuning Indicator makes the resonance tuning of the TI-RFid's Standard RFM and the High Performance RFM easy. LEDs indicate in which direction the tuning core should be turned or whether tuning capacitance needs to be added or removed (RI-RFM-007B-30) to bring a connected antenna to resonance.

Specifications: • Operating Frequency: 134.2kHz **• Resonance Tuning Accuracy (Green LED on):** ±600Hz **• Operation with RF Modules:** RI-RFM-007B-30 **• Operation with Readers:** 2000 Series **• Operating Temperature:** 0°C ~ 50°C **• Dimensions: Housing (mm):** 72 x 50 x 26, **Cable Length (mm):** 235 ±5

481-1025-ND (Texas Instruments # RI-ACC-ATI2-00) **$129.63**

HF 8X Antenna Multiplexer

The 8 times multiplexer facilitates switching between RFid antennas with an operating frequency of 13.56 MHz. With one multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader. Any of the eight multiplexers outputs can be assigned to both inputs by jumper adjustment. The multiplexer is controlled either via a digital input or the antenna cable connected with the reader.

Specifications: • Operating Temperature: -25°C ~ 65°C **• Operating Frequency:** 13.56MHz **• Power Supply:** 12 ~ 24VDC **• Maximum Allowed Switching Capacity:** 10W **• RF Connections:** 2x Input/8x Output SMA Socket (50Ω) **• Dimensions (mm):** 182 x 110 x 90

481-1054-ND (Texas Instruments # RR-IDISC-ANTMUX-A) **$1517.25**

Series 6350 HF Midrange Reader Module

Specifications: • Operating Frequency: 13.56MHz **• Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I and ISO 15693 compliant transponders **• Supply Voltage:** 5VDC **• Transmitter Power:** 120mW into 50Ω **• Antenna Connection:** 2 pins of 16-pin header connector **• Antenna Impedance:** 50Ω @ 13.56MHz **• Communication Interface:** RS232 **• Operating Temperature:** -20°C ~ 70°C **• Dimensions (mm):** 109.22 x 68.58 x 10.2

481-1102-ND (Texas Instruments # RI-STU-TRDC-30) **$152.25**

(Continued)

TEXAS INSTRUMENTS
RFID

Readers/Modules *(Cont.)*

Series 6500 HF Long Range Reader Module

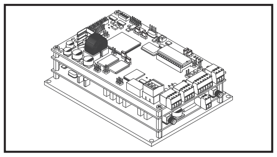

Specifications:

• Operating Frequency: 13.56MHz **• Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I, ISO 15693 compliant Transponders **• Supply Voltage:** 24VDC **• Transmitter Power:** 0.5W ~ 10W ±1dB **• Antenna Connection:** 2 x SMA female **• Antenna Impedance:** 50Ω at 13.56MHz **• Communications Interfaces:** RS232 or RS485 **• Operating Temperature:** -20°C ~ 65°C **• Dimensions (mm):** 160 x 120 x 67

481-1049-ND (Texas Instruments # RI-STU-650A-00) **$1402.50**

Series 6700 HF Multi-Protocol Transceiver IC

The S6700 Multi Protocol Transceiver IC enables a broad range of 13.56MHz RFID interrogator designs for portable and stationary readers. This low power consumption device supports multiple RF communication protocols, minimizes onboard power requirements and reduces parts count in a final reader product.

Specifications: • Operating Frequency: 13.56MHz **• Supported RF Communication Protocols:** Tag-it™ HF, ISO 15693-2 and ISO 14443-2 **• Operating Voltage:** 3.3V ~ 5VDC **• Transmitter Power:** 200mW at 5VDC **• Antenna Impedance:** 50Ω at 13.56MHz **• Communication Interface:** Serial interface **• Operating Temperature:** - 40°C ~ 85°C **• Package:** SSOP 20

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Texas Instruments Part No.
481-1046-1-ND	12.00	9.97	9.06	481-1046-2-ND	6116.00/M	RI-R6C-001A-03

TRF7960 Evaluation Module

The TRF7960 evaluation module (EVM) helps designers evaluate the performance of the TRF7960 multiple protocol RFID transceiver. The device incorporates an analog front end, protocol handling, framing, error checking, and multiple integrated voltage regulators with other features that allow the reader to be customized/configure able for the end application.

TRF7960 Features: • Support for the ISO 15693, 180003-1, and Tag-it™ standards • Support for both the ISO 14443A standard and the ISO 14443B standard (up to layer 4) • Self contained — has an on-board 13.56MHz loop antenna and interface • Communication with host software on a Windows-based PC through a standard USB cable • Protocol indication LEDs — (stand alone mode) required to indicate detection of a tag

Hardware Features: • TRF7961 supports 180003-1 and Tag-it™ standards • Supports both parallel and SPI communication interfaces between the TRF7960 and the MSP430 on-board (configure able using an on-board jumper setting) • A faster and lower-power MSP430 on board • The TRF7960EVM uses the state-of-the-art MSP430F2370 with maximum speeds up to 16MHz and is available in a tiny 40-pin QFN package • Power-selection jumper

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Texas Instruments Part No.
Evaluation Module	481-1106-ND‡	203.00	—	—	—	—	TRF7960EVM
Front End	481-1105-1-ND◆	7.20	5.88	5.28	250	1110.00	TRF7961RHBT
Front End	481-1107-1-ND◆	7.42	6.16	5.60	3,000	3640.00/M	TRF7960RHBR

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Bulk ◆ ***RoHS Compliant***

Mid-Range Reader

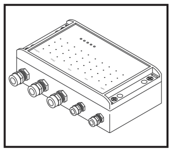

This reader has an aluminum housing with the protection class of IP 54 which protects against dust, dirt and syringe water. Transmitting power of 1.7 watts and read ranges of up to 70cm. The reader has several I/Os and has the serial interfaces RS232 and RS485 which can be adjusted by the software.

Specifications: • Operating Frequency: 13.56MHz **• Dimensions (L x W x H):** 200mm x 110mm x 60mm **• Antenna Connection:** SMA-plug (50Ω) **• Outputs:** 2 Optocouplers, 24VDC/30mA; 1 Relay, 24VDC/2A **• Inputs:** 2 Optocouplers, Maximum 24VDC/20mA **• Interfaces:** RS232 and RS485 (adjustable) **• Signal Generator:** 5 LED **• Operation Temperature:** -20°C ~ 60°C **• Storage Temperature:** -25°C ~ 85°C

481-1064-ND (Texas Instruments # RR-IDISC-MR200-A) **$1421.63**

LF Base Station IC

The LF base station allows efficient development and production of RFID readers for vehicle immobilizers. This base station IC drives the antenna of a TI-RFID transponder system to send data modulated on the antenna signal, and to detect and demodulate the response from the transponder. It also allows minimizing the external component count.

Features: • Self-adapting to transponders with a resonance frequency between 129kHz ~ 140kHz • Power management for 5V operation • Over-current protection of antenna driver

Specifications: • Operating Frequency: Typical 134.2kHz, FSK **• Operating Voltage:** 4.5 ~ 5.5VDC **• Operating Temperature:** -40°C ~ 85°C **• Package/Pin Count:** SO16 (10 x 6mm)

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Texas Instruments Part No.
481-1063-1-ND	9.38	7.79	7.08	481-1063-2-ND	4602.00/M	RI-TMS3705ADR

LF Micro Evaluation Kit

This easy-to-use kit gives the opportunity to explore the capabilities of Texas Instruments 134.2kHz Radio Frequency Identification (RFID) technology TIRIS™. The core of this LF Evaluation Kit is the CE and FCC approved Series 2000 Micro Reader which is mounted on an Interface Board combined with an antenna. Various transponder samples and demonstration software that runs on your desktop computer allow you to experiment with all the features of the RFID system.

Contents: • S2000 Micro Reader RI-STU-MRD1 mounted on an Interface Board with RS232 IF Port, Power Connector and Antenna Connector • Antenna • 9-Pin D-Sub Cable (female-female connector) • Various Transponder Samples • CD with User Documentation and Demonstration Software • Getting Started Guide • 9V Power Supply Input 100V-240V, 1.5A with various main power connectors for international use

481-1039-ND (Texas Instruments # RI-K3A-001A-00) **$325.10**

TIRIS™ RF-Module for Automotive

RI-RFM-006A is a CMOS technology based RF-module IC which integrates all transmitter-receiver functions required for constructing a TIRIS Read-Write System into one single chip. RI-RFM-006A consists of a transmitter signal control logic which generates signals for transmission and for sending the data you wrote to a remote TIRIS transponder, and a receiver amplifies and demodulates frequency shift keyed (FSK) signals received from this transponder.

Features: • Operating supply voltage: 4.5V ~ 5.5V • Operating temperature range: -40°C ~ 85°C • Package: 16-pin SOP • Structure: CMOS process

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Texas Instruments Part No.
481-1117-1-ND	9.38	7.79	7.08	481-1117-2-ND	4602.00/M	CF45538NSRG4

Tyco Electronics
Authorized Distributor

PCB Mount Antennas

Features: • Low profile, high performance • Molded or PCB antennas • Adjustment free technology

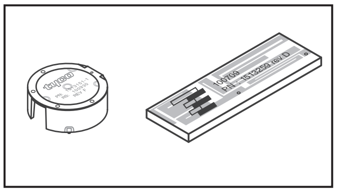

Description	Mounting Style	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 450	Tyco Electronics Part No.
Wlan 802.11b	SMT	2400 ~ 2500	A99512CT-ND	2.41	2.15	1.95	A99512TR-ND	814.05	1513151-1
Wlan Single Band	SMT	2400 ~ 2500	A99515CT-ND	1.48	1.32	1.19	A99515TR-ND	498.15	1513504-1

VISHAY. Vitramon

NEW! UHF Chip Antennas for Mobile Devices

These mulit-layer ceramic chip antennas are small form-factor, high performance, chip-antennas designed for TV reception in mobile devices in the UHF band. It allows mobile TV device manufacturers to design high quality products that do not bear the penalty of a large external antenna. Utilizing Vishay's unique materials and manufacturing technologies, this product complies with the MBRAI standard while maintaining a small outline. Focusing on consumer applications, the antenna is designed to be assembled onto a PC board in the standard reflow process.

Features: • Omni directional, linear polarization • Complies with MBRAI standard • Complete UHF band coverage (470MHz ~ 860MHz) • 50Ω unbalanced interface • Operating temperature range: -40°C ~ 85°C
Note: Requires a tuning circuit and ground plane for optimal performance

Fig. 1

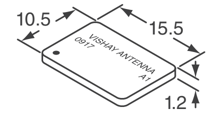

Fig. 2

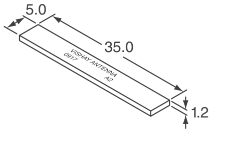

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Part No.
1	720-1226-1-ND	6.27	5.89	5.23	720-1226-2-ND	2470.00	VJ6040M011SXISRA0
2	720-1227-1-ND	7.75	7.25	6.25	720-1227-2-ND	3188.00	VJ3505M011SXMSRA0

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom WÜRTH ELEKTRONIK

NEW! WE-SHC Shielding Cabinet

Features:

- Tin Plate in accordance with DIN EN 10202/10203
- Shielding effectiveness up to 60db @ 500MHz to 3GHz
- Two-part case consisting of a solderable grid frame (SMD/THT) and a removable cover

Applications:

- To prevent EMI radiation from PCB and to keep sensitivity low of: RF output stages, RF input and amplifier stages, Oscillators, EMC sensitive parts in plastic cases

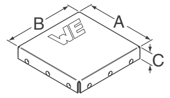

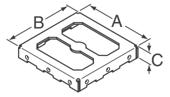

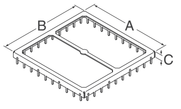

Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
SMD Frame	20.0	20.0	3.0	732-2486-ND	3.05	2.87	2.53	36103205
THT Frame	20.0	20.0	3.0	732-2487-ND	3.05	2.87	2.53	36503205
Cover	20.0	20.0	3.0	732-2488-ND	2.50	2.35	2.19	36003200
SMD Frame	25.0	25.0	3.0	732-2489-ND	3.35	3.15	2.88	36103255
THT Frame	25.0	25.0	3.0	732-2490-ND	3.35	3.15	2.88	36503255
Cover	25.0	25.0	3.0	732-2491-ND	2.90	2.73	2.50	36003250
SMD Frame	30.0	30.0	3.0	732-2492-ND	3.60	3.39	3.13	36103305
THT Frame	30.0	30.0	3.0	732-2493-ND	3.60	3.39	3.13	36503305
Cover	30.0	30.0	3.0	732-2494-ND	3.12	2.94	2.82	36003300
SMD Frame	50.0	50.0	3.0	732-2495-ND	3.80	3.58	3.32	36103505
THT Frame	50.0	50.0	3.0	732-2496-ND	3.80	3.58	3.32	36503505
Cover	50.0	50.0	3.0	732-2497-ND	3.35	3.15	2.98	36003500
SMD Frame	60.0	60.0	3.0	732-2498-ND	4.50	4.23	3.88	36103605
THT Frame	60.0	60.0	3.0	732-2499-ND	4.50	4.23	3.88	36503605
Cover	60.0	60.0	3.0	732-2500-ND	3.60	3.39	3.28	36003600

NEW! WE-FAS Flexible Absorber Sheet

Features:

- Permeability 15 µr
- Surface resistance 2 x 10E 10Ω
- Isolation resistance 0.01 x 10E 12Ω
- Material UL94-V0
- Operation temperature -20°C to +90°C

Applications:

- Housing and housing opening, between printed circuit boards, on IC's, processors and controllers, on cables which need high flexibility, LCD and LED monitors

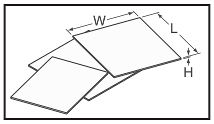

Dimensions (mm) L	W	H	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
EMI								
300	230	0.25	.5 ~ 5	732-2466-ND	95.00	89.30	69.66	304025
300	230	0.5	.5 ~ 5	732-2467-ND	95.00	89.30	69.66	30405
300	230	1.0	.5 ~ 5	732-2468-ND	115.00	108.11	84.32	30410
297	210	0.1	.5 ~ 3	732-2469-ND	70.00	65.80	51.33	32401
297	210	0.2	.5 ~ 3	732-2470-ND	78.00	73.32	57.19	32402
297	210	0.3	.5 ~ 3	732-2471-ND	85.00	79.90	62.33	32403
297	210	0.5	.5 ~ 3	732-2472-ND	100.00	94.00	73.33	32405
297	210	0.75	.5 ~ 3	732-2473-ND	120.00	112.81	90.00	324075
200	200	1.0	.5 ~ 3	732-2474-ND	125.00	117.51	93.75	32410
RFID								
297	210	0.1	—	732-2475-ND	90.00	84.60	65.99	31401
297	210	0.2	—	732-2476-ND	105.00	98.70	76.99	31402
297	210	0.3	—	732-2477-ND	115.00	108.10	84.32	31403

NEW! WE-CF EMI Shielding Sheet / EMI Shielding Tape

Features:

- Coated with copper or aluminium
- Self adhesive, highly conductive
- Easy application
- High shielding effectiveness due to highly conductive adhesive with metal powder
- UL-listed
- Operating temperature -25°C to +85°C
- 33 meters per roll

Applications:

- EMI-Protection of doors and housing
- Replenishment to the mounting WE-ST

Dimensions (mm) Width	Thickness	Material	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
8	0.065	Cooper	732-2478-ND	38.00	35.72	27.87	3003308
10	0.065	Cooper	732-2479-ND	49.00	46.06	35.93	3003310
20	0.065	Copper	732-2480-ND	58.00	54.53	42.53	3003320
25	0.065	Copper	732-2481-ND	75.00	70.50	54.99	3003325
50	0.065	Copper	732-2482-ND	100.00	94.00	88.75	3003350
8	0.070	Aluminium	732-2483-ND	30.00	28.20	22.00	3013308
10	0.070	Aluminium	732-2484-ND	39.00	36.66	30.00	3013310
20	0.070	Aluminium	732-2485-ND	50.00	47.00	36.67	3013320

WE-MCA Series Multilayer Chip Antennas

Digi-Reel®

Features: • Extremely low profile • Lightweight • Operating Temperature Range: -40°C ~ 85°C • Power capacity: 3W maximum • Omni-directional **Applications:** • For RF-applications in the area of 2.4GHz • WLAN • Home RF (868MHz) • Bluetooth • IEEE 802.11a/b • GPS • GSM900 • WiMAX

Dimensions in mm

Fig. 1

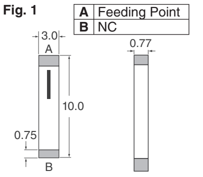

Fig. 2

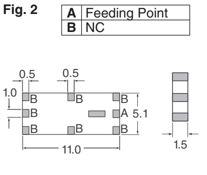

Fig. 3

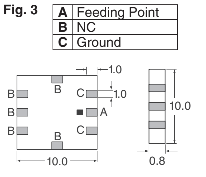

Fig. 4

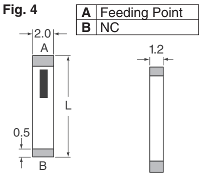

Fig. 5

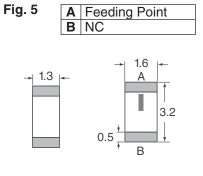

Fig. 6

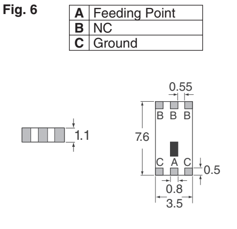

Fig.	Frequency Range	Max. VSWR	Impedance (Ω)	Average Gain (dBi)	Dim. L	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
1	1.555 ~ 1.595GHz	2	50	3	—	732-1833-1-ND	4.80	4.00	3.40	1,000	1400.00	7488910157
2	868 ~ 960MHz	2.5	50	2.6	—	732-1835-1-ND	5.10	4.25	3.62	1,000	1488.00	7488910092
3	2.3 ~ 2.69GHz, 3.3 ~ 3.9GHz, 5.15 ~ 5.875GHz	2	50	2.0 (2.3 ~ 2.69GHz), 4.0 (3.3 ~ 3.9GHz), 3.0 (5.15 ~ 5.875GHz)	—	732-1837-1-ND	8.70	7.25	6.17	500	1269.00	7488910235
4	2.4GHz	2	50	1.0	9.5	732-1838-1-ND	4.80	4.00	3.40	1,000	1400.00	7488910245
	5.15 ~ 5.35GHz	2	50	2.3	7.0	732-1840-1-ND	4.08	3.40	2.89	1,000	1190.00	7488910520
	5.725 ~ 5.825GHz	2	50	1.3	7.0	732-1842-1-ND	4.08	3.40	2.89	1,000	1190.00	7488910570
	2.4 ~ 2.5GHz	2	50	0.5	7.0	732-1845-1-ND	4.08	3.40	2.89	1,000	1190.00	7488940245
5	2.4 ~ 2.5GHz	2	50	0.5	—	732-1843-1-ND	4.08	3.40	2.89	3,000	1190.00/M	7488930245
6	2.4 ~ 2.5GHz	2	50	0	—	732-1846-1-ND	4.50	3.75	3.19	1,000	1313.00	7488920245
7	2.4 ~ 2.5GHz, 4.9 ~ 5.875GHz	2.2	50	2.5	—	732-1848-1-ND	4.50	3.75	3.19	1,000	1313.00	7488912455
Test Boards												
For 7488910157 ANT						732-1834-ND	10.50	8.75	7.75	—	—	74889101TB
For 7488910092 ANT						732-1836-ND	10.50	8.75	7.75	—	—	74889100TB
For 7488910245						732-1839-ND	10.50	8.75	7.75	—	—	7488910TB
For 7488910520						732-1841-ND	10.50	8.75	7.75	—	—	74889105TB
For 7488930245						732-1844-ND	10.50	8.75	7.75	—	—	7488930TB
For 7488920245						732-1847-ND	10.50	8.75	7.75	—	—	7488920TB
For 7488912455						732-1849-ND	10.50	8.75	7.75	—	—	7488912TB

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 7

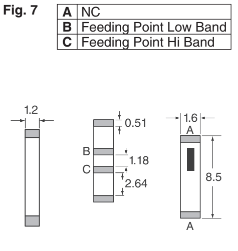

NEW! WE-BAL Series — Multilayer Chip Baluns

Digi-Reel®

Features: • Low loss SMD Balun with balanced impedance of 50Ω • Operating Temperature Range: -40°C ~ 85°C • Power capacity: 3W maximum

Applications: • RF applications in the frequency range up to 6GHz • Wireless communication systems like DECT, PACS, PHS, GSM WLAN and Bluetooth

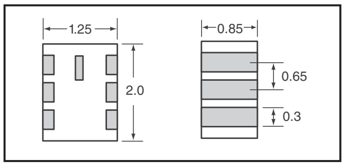

Frequency Range (MHz)	Insertion Loss Typical (dB)	Phase Imbalance	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Würth Part No.
2400 ~ 2500	0.54	180°	732-2230-1-ND	2.58	2.15	1.83	732-2230-2-ND	753.00/M	748421245

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Logical Systems

Programming and Prototyping Adapters

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
SOIC to DIP Prototyping Adapters			
8-Pin SOIC .150” Wide Socket to 8-Pin .300” Wide DIP Plug	309-1045-ND	60.00	PA8SO1-03-3
8-Pin SOIC .150” Wide Socket to 8-Pin .600” Wide DIP Plug	309-1046-ND	60.00	PA8SO1-03-6
8-Pin SOIC .210” Wide Socket to 8-Pin .300” Wide DIP Plug	309-1047-ND	70.00	PA8SO1-2006-3
8-Pin SOIC .210” Wide Socket to 8-Pin .600” Wide DIP Plug	309-1048-ND	70.00	PA8SO1-2006-6
8-Pin SOIC 300 MIL Wide Socket to 8-Pin 300 MIL Wide DIP Plug	309-1098-ND	7.50	PA-SOD3SM18-08
14-Pin SOIC .150” Wide Socket to 14-Pin .300” Wide DIP Plug	309-1000-ND	60.00	PA14SO1-03-3
14-Pin SOIC .150” Wide Socket to 14-Pin .600” Wide DIP Plug	309-1001-ND	60.00	PA14SO1-03-6
18-Pin SOIC .300” Wide Socket to 18-Pin .300” Wide DIP Plug	309-1010-ND	70.00	PA18SO1-08H-3
18-Pin SOIC .300” Wide Socket to 18-Pin .600” Wide DIP Plug	309-1011-ND	70.00	PA18SO1-08H-6
20-Pin SOIC .300” Wide Socket to 20-Pin .300” Wide DIP Plug	309-1012-ND	70.00	PA20SO1-08H-3
20-Pin SOIC .300” Wide Socket to 20-Pin .600” Wide DIP Plug	309-1013-ND	70.00	PA20SO1-08H-6
28-Pin SOIC .300” Wide Socket to 28-Pin .300” Wide DIP Plug	309-1023-ND	70.00	PA28SO1-08H-3
28-Pin SOIC .300” Wide Socket to 28-Pin .600” Wide DIP Plug	309-1024-ND	70.00	PA28SO1-08H-6
28-Pin SOIC 300 MIL Wide Socket to 28-Pin 300 MIL Wide DIP Plug	309-1097-ND	14.00	PA-SOD3SM18-28
SSOP to DIP Prototyping Adapters			
20-Pin SSOP Socket to 20-Pin .300” Wide DIP Plug	309-1014-ND	80.00	PA20SS-OT-3
20-Pin SSOP Socket to 18-Pin .600” Wide DIP Plug	309-1016-ND	80.00	PA20SS-P54
28-Pin SSOP Socket to 28-Pin .600” Wide DIP Plug	309-1025-ND	80.00	PA28SS-OT-6
28-Pin SSOP Socket to 28-Pin .600” Wide DIP Plug	309-1026-ND	80.00	PA28SS-P55
PLCC to DIP Prototyping Adapter			
32-Pin PLCC Auto-Eject Socket to 28-Pin .600” Wide DIP Plug	309-1089-ND	70.00	PA32-28
32-Pin PLCC Lidded ZIF Socket to 28-Pin .600” Wide DIP Plug	309-1090-ND	90.00	PA32-28Z
32-Pin PLCC Auto-Eject Socket to 32-Pin .600” Wide DIP Plug	309-1091-ND	100.00	PA32-32
32-Pin PLCC Lidded ZIF Socket to 32-Pin .600” Wide DIP Plug	309-1092-ND	90.00	PA32-32Z
44-Pin PLCC Auto-Eject Socket to 40-Pin .600” Wide DIP Plug	309-1093-ND	115.00	PA51-44
44-Pin PLCC Lidded ZIF Socket to 40-Pin .600” Wide DIP Plug	309-1094-ND	135.00	PA51-44Z
44-Pin PLCC Auto-Eject Socket to 40-Pin .600” Wide DIP Plug	309-1095-ND	115.00	PA280-44
44-Pin PLCC Lidded ZIF Socket to 40-Pin .600” Wide DIP Plug	309-1096-ND	135.00	PA280-44Z
44-Pin PLCC Lidded ZIF Socket to 40-Pin .600” Wide DIP Plug	309-1007-ND	135.00	PA17C42-PDZ
44-Pin PLCC Auto-Eject Socket to 40-Pin .600” Wide DIP Plug	309-1039-ND	115.00	PA44-40-P64-PD
44-Pin PLCC Lidded ZIF Socket to 40-Pin .600” Wide DIP Plug	309-1040-ND	135.00	PA44-40-P64-PDZ
QFP to DIP Prototyping Adapters			
44-Pin PQFP Socket to 40-Pin .600” Wide DIP Plug	309-1002-ND	165.00	PA16C64-QD-16
44-Pin TQFP Socket to 40-Pin .600” Wide DIP Plug	309-1003-ND	165.00	PA16C64-QD-03
44-Pin TQFP Socket to 40-Pin .600” Wide DIP Plug	309-1008-ND	165.00	PA17C42-QD-03
DIP to PLCC Prototyping Adapters			
Emulator Adapter, 40-Pin DIP ZIF Socket to 44-Pin PLCC Plug	309-1031-ND	145.00	PA40-44-P64-DP
Emulator Adapter, 40-Pin DIP Socket to 44-Pin PLCC Plug	309-1032-ND	125.00	PA40-44-P64-DP-PP
PLCC to PLCC Prototyping Adapter			
44-Pin PLCC Auto-eject Socket to 44-Pin PLCC Plug 1:1 Pinout	309-1041-ND	145.00	PA44-PP
44-Pin PLCC Lidded ZIF Socket to 44-Pin PLCC Plug 1:1 Pinout	309-1042-ND	165.00	PA44-PZP
QFP to QFP Prototyping Adapters			
44-Pin TQFP Socket to 44-Pin Solder Down QFP Plug 1:1 Pinout	309-1043-ND	360.00	PA44QF03-44QF
DIP to SO-Plug Prototyping Adapter Kits			
8-Pin .300” DIP Board, Two 8-Pin .250” SOIC Plugs	309-1050-ND	20.90	PADSO-0803-D250-08/2
8-Pin .300” DIP Board, Two 8-Pin .310” SOIC Plugs	309-1051-ND	20.90	PADSO-0803-D310-08/2
18-Pin .300” DIP Board with ZIF Socket. Two 18-Pin .420” SOIC Plugs	309-1059-ND	50.90	PADSO1803Z-D420-18/2
28-Pin .300” DIP Board, Two 28-Pin .420” SOIC Plugs	309-1065-ND	36.90	PADSO-2803-D420-28/2
SOIC to SOIC Prototyping Adapters			
18-Pin SOIC .300” Socket to 18-Pin SOIC Connector	309-1075-ND†	70.00	PA-SOD-2808-18
28-Pin SOIC .300” Socket to 28-Pin SOIC Connector	309-1073-ND†	70.00	PA-SOD-2808-28
Additional DIP Boards			
28-Pin .300” DIP Board	309-1064-ND	24.00	PA-DSO-2803
Additional SO-Plugs			
18-Pin .420” Plugs (6 pieces)	309-1081-ND	29.70	PA-SOF-D420-18/6
28-Pin .420” Plugs (6 pieces)	309-1083-ND	38.70	PA-SOF-D420-28/6

† Require SO-Plugs which must be ordered separately.

EPSILON5 — Portable ISP Programmer

The EPSILON5 Portable USB ISP Programmer is a high-speed development/field/production programmer supporting most In-System Programmable (ISP) Microcontrollers from Atmel, Philips and Zensys.

The programmer can be operated under PC control during development and for project configuration/uploading using the EQTools Toolsuite. The EPSILON5(AVR-JTAG) supports high-speed In-System Programming (ISP) of Atmel AVR Microcontrollers via the JTAG interface.

EPSILON5 — Portable ISP Programmer

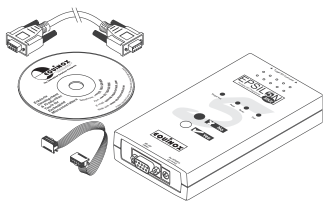

EPSILON5 — Portable ISP Programmer:

Features: • Supports PC Controlled and Standalone Programming • Development Mode - Using Equinox Development Suite (EDS) under PC control • Standalone Mode - Ideal for field or small-scale production use (no PC required) • Fastest programming times possible due to on-board data, high-speed SPI and JTAG port • Supports programming of FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes • 2Mbits of on-board non-volatile FLASH memory for user project storage (Standalone Mode) • JTAG Port - FAST ISP using JTAG algorithm • Equinox Development Suite (EDS) • Project Builder - To create/edit Programming Projects • Project Manager - To create and maintain Project Collections • Project Upload/Download Utility - To upload projects to the programmer for use in Standalone Mode

ATmega AVR JTAG Upgrade Bundle:

The “ATmega AVR JTAG” License Upgrade for Equinox ISP Programmers supports high-speed In-System Programming (ISP) of Atmel ATmega AVR Microcontrollers via their on-chip JTAG port. The JTAG algorithm yields much faster programming times (3-4 times faster) than the traditional SPI algorithm due to an enhanced protocol and higher bus speed. It is also possible to program multiple AVR Microcontrollers which are part of a JTAG Chain on the same Target System using JTAG algorithm.

Note: For more information, please see Digi-Key web site.

483-1000-ND	**EPSILON5-A1**	EPSILON5 — Portable USB ISP Programmer	**$259.95**
483-1014-ND	**EPSILON5(AVR-JTAG)**	EPSILON5 — Portable USB ISP Programmer for AVR-JTAG — ***RoHS Compliant***	**$259.95**
483-1015-ND	**EPSILON5(SAM7)**	EPSILON5 — Portable USB ISP Programmer for SAM7 — ***RoHS Compliant***	**$299.95**
483-1008-ND	**EPSILON5-UPG3**	EPSILON5 — Portable USB ISP Programmer Upgrade JTAG ISP AVR MCU	**$164.95**
483-1016-ND	**EPS-AVRJTAG-BUNDLE**	Programmer/Device Library Included ***RoHS Compliant***	**$329.95**
483-1017-ND	**EPS-AT91SAM7JTAG-BUNDLE**	Includes Device Library ***RoHS Compliant***	**$379.95**
483-1005-ND	**EQ-IOCON-3**	I/O Connector Module 3 for Atmel ATmega JTAG ISP	**$129.95**
483-1007-ND	**PPM3A1-UPG7**	Atmel ATmega AVR - JTAG ISP Upgrade License	**$775.50**
483-1013-ND	**EQ-SFM-MAX-V1.3**	Production ISP Programming Module ***RoHS Compliant***	**$299.95**

FS2009 — Portable High-Speed Multi-Project USB ISP Programmer

The FS2009 is a portable programmer ideal for Development, Field-Service and Production. It supports high-speed In-System Programming (ISP) of the on-chip FLASH/EEPROM memory of many FLASH Microcontroller devices including 8051, Atmel AVR, NXP, and Zensys Microcontrollers. Support for the programming of many 24xxx Serial EEPROM Memories via I2C is also offered along with Atmel AT91SAM7 support. In Standalone Mode (without a PC) the operator can select from any 1 of 64 pre-loaded “Programming Projects” using the keypad and Display and then simply presses the key to program the Target Device.

Features: • Supports ISP of AT91SAM7 devices (chargeable upgrade) • Supports programming via SPI and UART protocols as standard • Chargeable upgrade available for programming via JTAG and I2C • Supports “Standalone” operation i.e. no PC required after programmer has been configured • Very fast programming speeds suitable for high-throughput production environments • Up to 64 individual Programming Projects can be uploaded to the non-volatile On-board FLASH Store (4Mbytes) • Robust I/O driver stage

483-1018-ND	**FS2009(AVR-JTAG)**	Portable Programmer for AVR-JTAG	**$499.95**
483-1019-ND	**FS2009(SAM7)**	Portable Programmer for SAM7	**$499.95**
483-1020-ND	**FS2009(UN)**	Portable Programmer for UN	**$499.95**

PPM4-MK1 — High Speed Production ISP Programmer Module

The PPM4-MK1 is a state-of-the-art Production ISP Programmer designed for high-speed In-System Programming (ISP) of FLASH Microcontrollers and Serial Memory devices. It supports programming of devices by most interfaces including SPI, JTAG, JTAG chain, SCI, I2C (2-wire) and UART Boot Loader. Capable of operating in “Standalone Mode” where any one of 64 independent “Programming Projects” can be recalled and executed via the programmer keypad/display interface. Features a 4-wire TTL Remote Control interface making it ideal for interfacing to any ATE or In-Circuit Tester (ICT). A special Start Signal can be used to detect when a Test Fixture lid has been closed and thereby automatically start a programming operation.

483-1021-ND	**PPM4-MK1(UN)**	**$999.95**

FS2003 — Portable High-Speed ISP Programmer for 8051 and AVR Microcontrollers

The FS2003 Programmer supports high-speed In-System Programming (ISP) of many 8051 and Atmel AVR Microcontrollers. It can be utilized in standard “Standalone Mode” without a PC, making it ideally suited for field-service and/or production ISP environments. The operator simply selects one of the 64 “Programming Projects” held locally on the programmer and then presses the “Auto-Program” key to program the target device. The FS2003 supports SPI and Boot loader UART ISP as standard and can be upgraded to support JTAG ISP.

Programming Modes:

• Standalone Mode: Keypad + LCD (no PC) • Development Mode: Controlled via Equinox Development Suite (EDS) running on PC • Script Mode: Chargeable upgrade

In-System Programming Headers:

• For SPI: Equinox 10-way, Atmel 10-way, Atmel 6-way IDC Headers • For UART: Equinox 10-way Header
• For JTAG: Atmel 10-way IDC Header

483-1009-ND	**FS2003-UPG7** (Upgrade FS2003 JTAG ISP)	**$249.95**

RPM Systems Corporation

MPQ Series In-System Programmers for Manufacturing

RoHS COMPLIANT

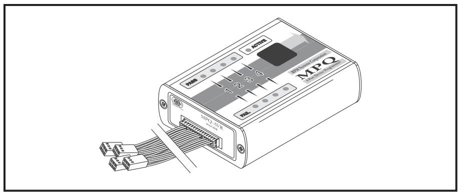

Features: • Programs 4 devices simultaneously • Array MPQs to program up to 64 devices simultaneously • Stores up to 4 program images in internal Flash • Stand alone, PC or ATE controlled • Supports target device voltages from 1.8V ~ 5.5V • Software upgradeable to support future devices • Built to survive in manufacturing • One year warranty

Description	Digi-Key Part No.	Price Each	RPM Systems Part No.
Four port, for CypressPSoC™	770-1000-ND	499.00	MPQ-PSOC
Four port, for ZiLOG Z8-Encore!™	770-1002-ND	499.00	MPQ-Z8
Four port, for Atmel AVR (SPI and JTAG)	770-1007-ND	548.00	MPQ-AVR
Four port, for Atmel AVR32 Microcontrollers	770-1008-ND	569.00	MPQ-AVR32

XELTEK SUPERPRO® Universal Programmers

CE

Features: • Two programmers in one • Ultra-high speed universal programmer • Socket adapters to support all ranges of package types • ARM7 RISC processor

Fig. 1

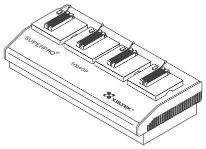

Fig. 2

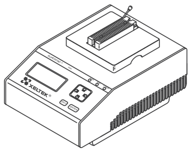

Fig. 3

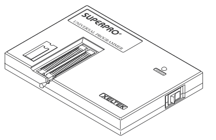

Fig. 4

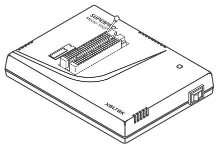

Fig.	Description	Digi-Key Part No.	Price Each	Xeltek Part No.
	SUPERPRO 500x — Supports Over 58,000 Devices — RoHS Compliant			
1	Universal Gang Programmer, 144-Pin, Concurrent and Independant 4 Sockets	415-1035-ND	6295.01	SUPERPRO5004GP
2	Universal Programmer, 144-Pin, Supports Stand-Alone and PC Mode	415-1036-ND	1995.00	SUPERPRO5000
	SUPERPRO 501S — Supports Over 24,000 Devices			
2	Economic Universal Programmer, 48-Pin, Supports Stand-Alone and PC Mode	415-1046-ND	995.00	SUPERPRO501S
	SUPERPRO Z — Supports Over 3,469 Devices			
3	Universal Programmer, 40-Pin	415-1000-ND	195.00	SUPERPROZ
	SUPERPRO 500P — Supports 24,000 Devices			
4	Economic Universal Programmer, 48-Pin, PC Mode Only	415-1047-ND	845.00	SUPERPRO500P
	Eprom Eraser			
—	Eprom Eraser with Electronic Starter, 24-Pin, 12 Pieces	415-1048-ND	125.00	LER121A-110V
	Eprom Eraser with Electronic Starter, 24-Pin, 64 Pieces	415-1049-ND	195.00	LER123A-110V

Socket Adapters

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
For SP 3000U/9000U/580U/280U/Z			
PLCC32-DIP32	415-1013-ND	105.00	SA015A1T
PLCC20-DIP20	415-1014-ND	105.00	SA001A
PLCC28-DIP28	415-1015-ND	105.00	SA008A
PLCC44-DIP24	415-1017-ND	110.00	SA244
SOIC28-DIP28	415-1018-ND	115.00	SA404
PSOP44-DIP44	415-1023-ND	185.00	SA638
TSOP40-DIP40	415-1024-ND	185.00	SA409T
TSOP56-DIP48	415-1027-ND	225.00	SA628-B011
TQFP32-DIP32	415-1028-ND	185.00	SA636
SDIP42-DIP42	415-1029-ND	195.00	SA028

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
For SP 5000/5004GP			
PLCC32-D32	415-1037-ND	185.00	CX2032
PLCC44-D44	415-1038-ND	185.00	CX2044
TSOP48-D48	415-1039-ND	235.00	CX1004
SOP16-D16	415-1040-ND	175.00	CX1016
TSOP40-D40	415-1041-ND	260.00	CX1006
TSOP56-D56	415-1042-ND	300.00	CX1011
SSOP28-D28	415-1043-ND	205.00	CX1025
SOIC28-D28	415-1044-ND	185.00	CX1033

NEW! Phyton™ Programmers and Adapters

RoHS COMPLIANT

Phyton ChipProg economical and professional quality programmer line spans the range from inexpensive engineering programmers, to low-cost in-system programmers, as well as gang programmers for low-volume and mid-volume manufacturing. All tools are USB hosted, have a friendly user interface, scripts for automating common programming tasks, and provide very fast programming. A variety of programming adapters for chip packages and cables for in-system programming are available.

Fig. 1

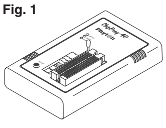

Fig. 2

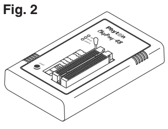

Fig. 3

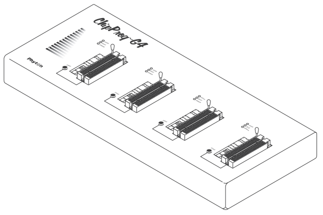

Fig. 4

Programmers

Fig.	Description	Digi-Key Part No.	Price Each	Phyton Part No.
1	Stand-a-lone Programmer, 40-DIP	CHIPPROG-40-ND	445.00	CHIPPROG-40
2	Stand-a-lone Programmer, 48-DIP	CHIPPROG-48-ND	545.00	CHIPPROG-48
3	4-Socket Gang Programmer	CHIPPROG-G4-ND	2450.00	CHIPPROG-G4
4	In-System Universal Programmer	CHIPPROG-ISP-ND	395.00	CHIPPROG-ISP

Adapters

Description	Digi-Key Part No.	Price Each	Phyton Part No.
BH-16 to 28-DIP	AE-ISP-MSP430-ND	80.00	AE-ISP-MSP430
BH-10 to 28-DIP	AE-ISP-U1-ND	80.00	AE-ISP-U1
32-PLCC to 28-DIP	AE-P32-28-ND	80.00	AE-P32-28
28-PLCC to 28-DIP	AE-P28U-ND	85.00	AE-P28U
32-PLCC to 32-DIP	AE-P32U-ND	80.00	AE-P32U
44-PLCC to 40-DIP	AE-P44-I51-ND	120.00	AE-P44-I51
16-SOIC to 16-DIP	AE-SC8/16UM-ND	70.00	AE-SC8/16UM
28-SOIC to 28-DIP	AE-SC18/28U-ND	80.00	AE-SC18/28U
32-QFP to 28-DIP	AE-Q32-AV1-ND	145.00	AE-Q32-AV1
44-SO to 40-DIP	AE-SO44-16-ND	115.00	AE-SO44-16
16-SOIC to 16-DIP	AE-SC8/16UN-ND	70.00	AE-SC8/16UN

Description	Digi-Key Part No.	Price Each	Phyton Part No.
48-QFP to 48-DIP	AE-Q48U-ND	170.00	AE-Q48U
44-PLCC to 44-DIP	AE-P44U-ND	120.00	AE-P44U
Adapter Sockets			
44-TQFP to 40-DIP	AE-T44-I51-ND	165.00	AE-T44-I51
32-TSOP to 32-DIP	AE-TS32W-ND	105.00	AE-TS32W
40-TSOP to 40-DIP	AE-TS40W-ND	140.00	AE-TS40W
48-TSOP to 40-DIP	AE-TS48-16AM-ND	150.00	AE-TS48-16AM
48-TSOP to 40-DIP	AE-TS48-NAND-2-ND	150.00	AE-TS48-NAND-2
48-TSOP to 48-DIP	AE-TS48U-ND	150.00	AE-TS48U
56-TSOP to 40-DIP	AE-TS56-16AM-ND	160.00	AE-TS56-16AM
56-TSOP to 40-DIP	AE-TS56-16I-ND	160.00	AE-TS56-16I
44-SOIC to 44-DIP	AE-SO44U-ND	115.00	AE-SO44U

XILINX Spartan® and Virtex™ Field Programmable Gate Arrays

Spartan-6: Offers the best solution for high volume logic designs, consumer-oriented DSP designs, and cost-sensitive embedded applications. **Spartan-3 Family** Features a broad range of densities, general functionality and targeted specific application solutions. **Spartan-3:** • Highest density and pin count • Ideal for highly integrated data-processing applications **Spartan-3A:** • I/O optimized • Ideal for bridging, differential signaling and memory interfacing applications **Spartan-3A DSP:** • DSP Optimized • Ideal for applications where integrated DSP MACs and expanded memory are required **Spartan-3AN:** • Non-Volatile • Ideal for applications where non-volatile system integration, security or large user Flash is required **Spartan-3E:** • Logic optimized • Ideal for logic integration, DSP co-processing and embedded control **Spartan-II:** • 2.5V FPGA gives users abundant logic resources, and a rich feature set • System performance is supported up to 200MHz **Spartan-IIE:** • 1.8V FPGA is similar to the Spartan-II family but operates at a lower voltage **Spartan-XL:** • High performance FPGA **Virtex-5:** • Industry's first 65nm FPGA offering choice of platforms, each delivering an optimized balance of high performance logic, serial connectivity, signal and embedded processing **Virtex-4:** • Offers breakthrough capabilities at the lowest cost, with multiple platforms to choose from **Virtex-II Pro:** • Incorporates embedded PowerPC™ processors and 3.125Gbps RocketIO serial transceivers **Virtex-II:** • High performance interfaces to external memory and clock management, as well as flexible logic resources **Virtex:** • FPGAs are flexible alternatives to mask programmed gate arrays • System performance up to 200MHz ~ 66MHz PCI Compliant-Hot swappable for Compact PCI • All Virtex families are supported by FPGA Foundation™ and Alliance Development Systems

Package	Gates	CLB	I/O Pins	Operating Voltage	Digi-Key Part No.	Price Each			Xilinx Part No.
						1	25	100	
NEW! Spartan-6 Series — RoHS Compliant NEW!									
324-CSBGA	15K	136	232	1.2	122-1602-ND	25.20	—	—	XC6SLX16-2CSG324CES
484-FGBGA	44K	401	358	1.2	122-1603-ND	53.94	—	—	XC6SLX45-2FGG484CES
Spartan-3 Series — RoHS Compliant									
100-VTQFP	50K	192	63	1.2	122-1504-ND	10.10	8.75	7.65	XC3S50-4VQG100C
256-FTBGA	200K	480	173	1.2	122-1338-ND	25.55	22.25	19.35	XC3S200-4FTG256C
208-PQFQ	200K	480	141	1.2	122-1339-ND	20.25	17.65	15.30	XC3S200-4PQG208C
144-TQFP	200K	480	97	1.2	122-1340-ND	15.10	13.15	11.40	XC3S200-4TQG144C
456-FBGA	400K	896	264	1.2	122-1341-ND	47.05	40.90	35.58	XC3S400-4FGG456C
256-FTBGA	400K	896	173	1.2	122-1342-ND	27.00	23.50	20.40	XC3S400-4FTG256C
208-PQFP	400K	896	141	1.2	122-1519-ND	25.45	22.15	19.26	XC3S400-4PQG208C
456-FBGA	1M	1920	333	1.2	122-1333-ND	62.10	54.00	46.95	XC3S1000-4FGG456C
676-FBGA	1M	1920	391	1.2	122-1334-ND	85.60	74.45	64.75	XC3S1000-4FGG676C
256-FTBGA	1M	1920	173	1.2	122-1335-ND	46.60	40.55	35.25	XC3S1000-4FTG256C
456-FBGA	1.5M	3328	333	1.2	122-1336-ND	78.00	67.80	58.95	XC3S1500-4FGG456C
Spartan-3A Series — RoHS Compliant									
100-VQFP	50K	176	144	1.2	122-1592-ND	5.52	—	—	XC3S50A-4VQG100C
100-VQFP	50K	176	144	1.2	122-1593-ND	6.36	—	—	XC3S50A-4VQG100I
100-VQFP	200K	448	248	1.2	122-1594-ND	11.16	—	—	XC3S200A-4VQG100C
100-VQFP	200K	448	248	1.2	122-1595-ND	12.84	—	—	XC3S200A-4VQG100I
100-VQFP	200K	448	248	1.2	122-1596-ND	13.44	—	—	XC3S200A-5VQG100C
144-TQFP	50K	176	108	1.2	122-1541-ND	7.44	—	—	XC3S50A-4TQG144C
144-TQFP	50K	192	124	1.2	122-1589-ND	8.58	—	—	XC3S50A-4TQG144I
256-FTBGA	50K	176	144	1.2	122-1542-ND	8.76	—	—	XC3S50A-4FTG256C
256-FTBGA	50K	176	144	1.2	122-1579-ND	10.08	—	—	XC3S50A-4FTG256I
256-FTBGA	200K	448	195	1.2	122-1543-ND	13.44	—	—	XC3S200A-4FTG256C
320-FBGA	200K	448	248	1.2	122-1544-ND	15.78	—	—	XC3S200A-4FGG320C
256-FTBGA	400K	896	195	1.2	122-1545-ND	15.84	—	—	XC3S400A-4FTG256C
256-FTBGA	400K	896	195	1.2	122-1580-ND	19.02	—	—	XC3S400A-5FTG256C
256-FTBGA	400K	896	264	1.2	122-1588-ND	18.24	—	—	XC3S400A-4FTG256I
400-FBGA	400K	896	311	1.2	122-1547-ND	21.90	—	—	XC3S400A-4FGG400C
400-FBGA	700K	1472	311	1.2	122-1548-ND	30.36	—	—	XC3S700A-4FGG400C
484-FBGA	700K	1472	372	1.2	122-1549-ND	33.78	—	—	XC3S700A-4FGG484C
484-FBGA	1400K	2816	375	1.2	122-1550-ND	51.24	—	—	XC3S1400A-4FGG484C
676-FBGA	1400K	2816	502	1.2	122-1551-ND	59.10	—	—	XC3S1400A-4FGG676C
Spartan-3A DSP Series — RoHS Compliant									
484-CSBGA	1800K	4160	309	1.2	122-1537-ND	51.72	—	—	XC3SD1800A-4CSG484C
676-FBGA	1800K	4160	519	1.2	122-1538-ND	59.46	—	—	XC3SD1800A-4FGG676C
484-CSBGA	3400K	5968	309	1.2	122-1540-ND	67.74	—	—	XC3SD3400A-4CSG484C
676-FBGA	3400K	5968	469	1.2	122-1539-ND	77.88	—	—	XC3SD3400A-4FGG676C
Spartan-3AN Series — RoHS Compliant									
144-TQFP	50K	176	108	1.2	122-1555-ND	8.94	—	—	XC3S50AN-4TQG144C
144-TQFP	50K	176	108	1.2	122-1597-ND	10.32	—	—	XC3S50AN-4TQG144I
144-TQFP	50K	192	124	1.2	122-1590-ND	10.74	—	—	XC3S50AN-5TQG144C
256-FTBGA	200K	448	195	1.2	122-1553-ND	15.84	—	—	XC3S200AN-4FTG256C
256-FTBGA	200K	448	195	1.2	122-1569-ND	18.18	—	—	XC3S200AN-4FTG256I
256-FTBGA	200K	448	195	1.2	122-1599-ND	18.96	—	—	XC3S200AN-5FTG256C
400-FBGA	400K	896	311	1.2	122-1554-ND	25.14	—	—	XC3S400AN-4FGG400C
484-FBGA	700K	1472	372	1.2	122-1556-ND	37.14	—	—	XC3S700AN-4FGG484C
484-FBGA	700K	1472	372	1.2	122-1598-ND	42.72	—	—	XC3S700AN-4FGG484I
676-FBGA	1400K	2816	502	1.2	122-1552-ND	65.04	—	—	XC3S1400AN-4FGG676C
676-FBGA	1400K	2816	502	1.2	122-1600-ND	78.06	—	—	XC3S1400AN-5FGG676C
Spartan-3E Series — RoHS Compliant									
132-CSBGA	100K	240	83	1.2	122-1515-ND	11.10	—	—	XC3S100E-4CPG132C
144-TQFP	100K	240	108	1.2	122-1478-ND	11.10	—	—	XC3S100E-4TQG144C
100-VTQFP	100K	240	66	1.2	122-1479-ND	9.48	—	—	XC3S100E-4VQG100C
132-CSBGA	250K	612	92	1.2	122-1518-ND	15.30	—	—	XC3S250E-4CPG132C
144-TQFP	250K	612	108	1.2	122-1524-ND	15.30	—	—	XC3S250E-4TQG144C
100-VQFP	250K	612	66	1.2	122-1525-ND	13.08	—	—	XC3S250E-4VQG100C
256-FTBG	250K	612	172	1.2	122-1482-ND	20.22	—	—	XC3S250E-4FTG256C
208-PQFP	250K	612	158	1.2	122-1483-ND	18.30	—	—	XC3S250E-4PQG208C
132-CSBGA	500K	1164	92	1.2	122-1484-ND	20.76	—	—	XC3S500E-4CPG132C
320-FBGA	500K	1164	232	1.2	122-1526-ND	31.56	—	—	XC3S500E-4FGG320C
256-FTBG	500K	1164	190	1.2	122-1485-ND	27.42	—	—	XC3S500E-4FTG256C
208-PQFP	500K	1164	158	1.2	122-1520-ND	24.90	—	—	XC3S500E-4PQG208C
320-FBGA	1200K	2168	250	1.2	122-1516-ND	43.74	—	—	XC3S1200E-4FGG320C
400-FBGA	1200K	2168	304	1.2	122-1480-ND	50.28	—	—	XC3S1200E-4FGG400C
256-FTBGA	1200K	2168	304	1.2	122-1529-ND	38.04	—	—	XC3S1200E-4FTG256C
320-FBGA	1600K	3688	250	1.2	122-1481-ND	60.96	—	—	XC3S1600E-4FGG320C
400-FBGA	1600K	3688	304	1.2	122-1517-ND	70.08	—	—	XC3S1600E-4FGG400C
Spartan-II Series									
144-TQFP	15K	96	86	2.5	122-1218-ND	8.15	—	—	XC2S15-5TQ144C
100-VQFP	15K	96	60	2.5	122-1309-ND◆	7.10	—	—	XC2S15-5VQG100C
144-TQFP	30K	216	92	2.5	122-1318-ND◆	11.55	—	—	XC2S30-5TQG144C
100-VQFP	30K	216	60	2.5	122-1513-5-ND◆	10.05	—	—	XC2S30-5VQG100C
256-FBGA	50K	384	176	2.5	122-1319-ND◆	16.65	—	—	XC2S50-5FGG256C
208-PQFP	50K	384	140	2.5	122-1320-ND◆	14.75	—	—	XC2S50-5PQG208C
144-TQFP	50K	384	92	2.5	122-1321-ND◆	12.85	—	—	XC2S50-5TQG144C
456-FBGA	100K	600	196	2.5	122-1227-ND	41.31	—	—	XC2S100-5FG456C
208-PQFP	100K	600	140	2.5	122-1304-ND◆	19.55	—	—	XC2S100-5PQG208C
144-TQFP	100K	600	92	2.5	122-1305-ND◆	17.60	—	—	XC2S100-5TQG144C
208-PQFP	150K	864	140	2.5	122-1308-ND◆	21.60	—	—	XC2S150-5PQG208C
208-PQFP	200K	1176	140	2.5	122-1314-ND◆	26.25	—	—	XC2S200-5PQG208C
208-PQFP	200K	1176	140	2.5	122-1315-ND◆	30.15	—	—	XC2S200-5PQG208I
208-PQFP	200K	1176	140	2.5	122-1317-ND◆	30.15	—	—	XC2S200-6PQC208C
Spartan-IIE Series — RoHS Compliant									
256-FBGA	50K	384	182	1.8	122-1328-ND	16.45	16.30	16.10	XC2S50E-6FTG256C
256-FBGA	50K	384	182	1.8	122-1329-ND	18.90	18.75	18.51	XC2S50E-6FTG256I

◆ ***RoHS Compliant***

(Continued)

Spartan® and Virtex™ Field Programmable Gate Arrays *(Cont.)*

Package	Gates	CLB	I/O Pins	Operating Voltage	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
208-PQFP	50K	384	146	1.8	122-1330-ND	14.55	—	—	XC2S50E-6PQG208C
144-TQFP	50K	384	102	1.8	122-1331-ND	12.65	—	—	XC2S50E-6TQG144C
144-TQFP	100K	600	102	1.8	122-1462-ND	17.30	17.15	16.90	XC2S100E-6TQG144C
208-PQFP	200K	1176	146	1.8	122-1324-ND	25.20	25.00	24.65	XC2S200E-6PQG208C
256-FBGA	300K	1536	182	1.8	122-1325-ND	47.50	47.15	46.45	XC2S300E-6FTG256C
208-PQFP	300K	1536	146	1.8	122-1326-ND	38.60	38.35	37.76	XC2S300E-6PQG208C
456-FBGA	600K	3456	329	1.8	122-1332-ND	170.00	147.00	125.01	XC2S600E-6FGG456C
					Spartan-XL Series — RoHS Compliant				
100-VQFP	5K	100	77	3.3	122-1289-ND	10.65	9.05	7.80	XCS05XL-4VQG100C
144-TQFP	10K	196	112	3.3	122-1290-ND	23.45	19.85	17.15	XCS10XL-4TQG144C
100-VQFP	10K	196	112	3.3	122-1291-ND	19.00	16.10	13.90	XCS10XL-4VQG100C
144-TQFP	20K	400	160	3.3	122-1293-ND	27.55	23.30	20.15	XCS20XL-4TQG144C
144-TQFP	30K	576	192	3.3	122-1297-ND	33.15	28.05	24.25	XCS30XL-4TQG144C
100-VQFP	30K	576	192	3.3	122-1299-ND	30.10	25.45	22.01	XCS30XL-4VQG100C
208-PQFP	40K	784	169	3.3	122-1301-ND	49.85	42.15	36.41	XCS40XL-5PQG208C
					Virtex-5 Series — RoHS Compliant				
324-FBGA	30K	2400	220	1.0	122-1558-ND	240.00	—	—	XC5VLX30-1FFG324C
665-FCBGA	30K	2400	360	1.0	122-1560-ND	320.40	—	—	XC5VLX30T-1FFG665C
665-FBGA	30K	3040	360	1.0	122-1583-ND	450.00	—	—	XC5VFX30T-1FFG665C
665-FCBGA	35K	2720	360	1.0	122-1566-ND	440.40	—	—	XC5VSX35T-1FFG665C
324-FBGA	50K	3600	220	1.0	122-1562-ND	378.00	—	—	XC5VLX50-1FFG324C
676-FBGA	50K	3600	440	1.0	122-1563-ND	434.40	—	—	XC5VLX50-1FFG676C
665-FCBGA	50K	3600	360	1.0	122-1565-ND	508.80	—	—	XC5VLX50T-1FFG665C
665-FBGA	70K	6080	360	1.0	122-1585-ND	920.40	—	—	XC5VFX70T-1FFG665C
1136-FBGA	70K	6080	640	1.0	122-1584-ND	1012.80	—	—	XC5VFX70T-1FFG1136C
676-FBGA	110K	8640	440	1.0	122-1557-ND	1320.00	—	—	XC5VLX110-1FFG676C
					Virtex-4 Series — RoHS Compliant				
668-FCBGA	12K	12312	9	1.2	122-1591-ND	172.00	148.80	—	XC4VFX12-10FFG668C
363-FCBGA	24K	2688	240	1.2	122-1489-ND	211.20	—	—	XC4VLX25-10SFG363C
668-FCBGA	24K	2688	448	1.2	122-1488-ND	253.20	—	—	XC4VLX25-10FFG668C
668-FCBGA	35K	3840	448	1.2	122-1498-ND	448.80	—	—	XC4VSX35-10FFG668C
1148-FBGA	40K	4806	640	1.2	122-1491-ND	439.20	—	—	XC4VLX40-10FFG1148C
1148-FBGA	55K	6144	640	1.2	122-1500-ND	1123.20	—	—	XC4VSX55-10FFG1148C
668-FCBGA	60K	6656	448	1.2	122-1494-ND	609.60	—	—	XC4VLX60-10FFG668C
668-FCBGA	60K	6656	448	1.2	122-1496-ND	762.00	—	—	XC4VLX60-11FFG668C
1513-FBGA	100K	12288	960	1.2	122-1487-ND	2000.40	—	—	XC4VLX100-10FFG1513C
					Virtex-II Pro Series — RoHS Compliant				
456-FBGA	6K	752	248	1.5	122-1451-ND	126.00	113.00	99.11	XC2VP4-5FGG456C
676-FBGA	20K	2320	404	1.5	122-1361-ND	304.00	272.00	239.00	XC2VP20-5FGG676C
1152-FCBGA	30K	3424	644	1.5	122-1364-ND	903.00	808.01	710.00	XC2VP30-6FFG1152C
					Virtex-II Series — RoHS Compliant				
256-FBGA	250K	384	172	1.5	122-1352-ND	80.65	72.10	63.36	XC2V250-4FGG256C
256-FBGA	500K	768	172	1.5	122-1356-ND	136.00	122.00	107.01	XC2V500-4FGG256C
256-FBGA	1M	1280	172	1.5	122-1345-ND	198.00	177.00	155.01	XC2V1000-4FGG256C
456-FBGA	1M	1280	324	1.5	122-1346-ND	217.00	194.00	170.01	XC2V1000-4FGG456C
456-FBGA	1M	1280	324	1.5	122-1348-ND	304.00	272.00	238.00	XC2V1000-5FGG456C
676-FBGA	1.5M	1920	392	1.5	122-1349-ND	306.00	274.01	241.00	XC2V1500-4FGG676C
896-FCBGA	2M	2688	624	1.5	122-1350-ND	522.00	467.00	410.00	XC2V2000-4FFG896C
1152-FCBGA	3M	3584	720	1.5	122-1353-ND	803.00	718.00	631.01	XC2V3000-4FFG1152C
676-FBGA	3M	3584	484	1.5	122-1354-ND	669.00	598.01	526.01	XC2V3000-4FGG676C
676-FBGA	3M	3584	484	1.5	122-1355-ND	937.00	837.00	736.01	XC2V3000-5FGG676C
					Virtex Series				
240-PQFP	57K	384	166	2.5	122-1213-ND	79.75	71.40	61.65	XCV50-5PQ240C
240-PQFP	108K	600	166	2.5	122-1214-ND	150.00	134.01	116.00	XCV100-5PQ240C

◆ ***RoHS Compliant***

Starter Kits and Evaluation Platforms

RoHS COMPLIANT

The **CoolRunner-II Starter Kit** Includes: • X-Board with XC2C256-TQ144 • Resource CD • USB 2.0 cable • ISE®WebPACK™ CD • Three peripheral modules

The **CoolRunner-II Low Power Low Cost Starter Kit** Includes: • Evaluation Board with an XC2C256-TQ144 device • USB 2.0 cable for power, programming and data transfer • 9V battery connector for optional battery power • QuickStart Guide • ISE®WebPACK™ software • Resource CD

The **Spartan®-3A Starter Kit** is a complete development solution giving designers instant access to the capabilities of the Spartan-3A family. Kit Includes: • Development board • Power Supply (100 ~ 240V, 50 ~ 60Hz) with universal plug adaptors • Evaluation software: ISE®WebPACK™ or ISE Foundation™ Evaluation • Quickstart Guide • Programming Cable • Product Collateral

The **Spartan®-3A DSP Starter Platform** provides the necessary hardware to evaluate the advanced features of the Spartan-3A DSP and implement complete user applications. Includes: • DSP 1800A Development Board • Universal power supply • ISE®WebPACK™

The **Spartan®-3AN Starter Kit** is non-volatile FPGA platform evaluation board includes 10/100 Ethernet/PHY, ADC/DAC circuitry, and connectivity options. Kit Includes: • Development board • Universal power supply with plug adapters • Evaluation software: ISE®WebPACK™ or ISE Foundation™ • Quickstart Guide • Programming cable

The **Spartan®-3E Starter Kit** is a complete development board solution giving designers instant access to the capabilities of the Spartan-3E family. Kit Includes: • Board • Power Supply • Evaluation Software • Resource CD

The **Virtex™-5 Kit** is a feature-rich and low-cost evaluation/development platform which provides easy and practical access to resources available in the on-board Virtex-5 LX50 FPGA device. Kit Includes: • Xilinx Virtex-5 ML501 Evaluation platform • System ACE CompactFlash card • DVI to VGA adapter (Development tools and PC download cable are not included and must be ordered separately)

The **Spartan®-6 FPGA SP601 Evaluation Kit** enables hardware and software developers to create or evaluate designs targeting the XC6SLX16-CS324 Spartan-6 FPGA. Kit Includes: • SP601 Base Board including the XC6SLX16-CS324 FPGA • FPGA Design Software - Xilinx ISE® Design Suite: WebPACK™ Edition • Documentation: Hardware Setup Guide, Getting Started Guide, Hardware User Guide, Reference Design User Guide, Board Schematics, and PCB Files • Universal 5V power supply • Cables: 2 USB, 1 Ethernet • Reference Designs

The **Spartan®-6 FPGA SP605 Evaluation Kit** provides a flexible environment for system design and provides customers reference design and examples on how to leverage features such as high-speed serial transceivers, PCI Express®, DVI, and/or DDR3. Kit Includes: • SP605 Base Board including the XC6SLX45T-FGG484-3CES FPGA • ISE Design Suite: Logic Edition (device-locked for the Spartan-6 LX45T FPGA), includes Planahead™ Design Analysis Tool, Timing Driven Place and Route, SmartGuilde™, SmartXplorer Technology, ISE Simulator, ChipScope™ Pro and ChipScope Pro Serial IO Toolkit • Documentation: Hardware Setup Guide, Getting Started Guide, Hardware User Guide, Reference Design and Example User Guide, Board Schematics, and PCB Files • Universal 12V power supply • Cables: 2 USB, 1 Ethernet, One DVI-VGA adapter • Reference Designs and Examples Designs • USB Flash Drive containing reference designs, demos, and documents

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
CoolRunner-II Starter Kit Bundle	122-1534-ND	109.32	HW-CRII-PM-ACC-G
CoolRunner-II Low Power Low Cost Starter Kit	122-1573-ND	43.08	SK-CRII-L-G
Spartan-3A Starter Kit	122-1514-ND	208.80	HW-SPAR3A-SK-UNI-G
Spartan-3A DSP Starter Platform	122-1574-ND	656.40	HW-SD1800A-DSP-SB-UNI-G
Spartan-3AN Starter Kit	122-1528-ND	219.60	HW-SPAR3AN-SK-UNI-G
Spartan-3E Starter Kit	122-1536-ND	435.60	HW-SPAR3E-SK-UNI-G
Virtex-5 Evaluation Platform Kit	122-1508-ND	1098.00	HW-V5-ML501-UNI-G
Virtex-5 ML555 Evaluation Board	122-1586-ND	3306.00	HW-V5-ML555-G
Spartan-6 FPGA SP601 Evaluation Kit	122-1601-ND	325.20	EK-S6-SP601-G
Spartan-6 FPGA SP605 Evaluation Kit	122-1605-ND ***NEW!***	546.00	EK-S6-SP605-G

Parallel Cable IV, Splitter, PC4 / Platform Cable USB, Flying Lead Connector

The **Ribbon Cable** incorporates multiple signal-ground pairs and facilitates error-free connection.

The **Platform Cable USB** is a high-performance download cable that configures or programs ISP PROM, CPLD and FPGA devices. A sustained Slave-serial FPGA configuration rate of 24Mb/s is possible in a high-speed USB environment. **Features:**
- Automatically senses and adapts to target I/O Voltage
- Configures all Xilinx devices
- LED status indicator

The **FPGA Flying Lead Connector** provides pins on your printed circuit board for your desired configuration mode.

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
Ribbon Cable for Multipro or Cable IV	122-1476-ND	8.82	HW-RIBBON14
FPGA Flying Lead Connector	122-1473-ND	16.56	HW-FLYLEADS
Board Adapter with Wire Leads	122-1530-ND◆	27.60	HW-USB-FLYLEADS-G
Platform Cable USB II	122-1572-ND◆	248.40	HW-USB-II-G

◆ ***RoHS Compliant***

In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500 CPLD** family provides advanced in-system programming and test capabilities. All devices have a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive.

The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications. The XC9500XL architectural features address the requirements of in-system programmability. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing.

The **CoolRunner™-II** device is a 3.3V CPLD targeted at power sensitive designs that require leading edge programmable logic solutions. CoolRunner CPLDs offer a TotalCMOS™ solution, both in process technology and design technique. Xilinx employs a cascade of CMOS gates to implement its sum of products instead of the traditional sense amp approach.

Package	Macro-cells	Usable Gates	Registers	System Frequency (MHz)	Pin to Pin Delay TPD (ns)	I/O Pins	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
5 Volt											
44-VQFP	36	800	36	100 (Min.)	5	34	122-1254-ND	11.75	10.90	10.10	XC9536-5VQ44C
44-PLCC	36	800	36	83 (Min.)	7.5	34	122-1169-ND	5.15	4.80	4.45	XC9536-7PC44C
44-VQFP	36	800	36	83 (Min.)	7.5	34	122-1170-ND	5.15	4.80	4.45	XC9536-7VQ44C
44-PLCC	36	800	36	66 (Min.)	10	34	122-1431-ND◆	4.05	3.75	3.50	XC9536-10PCG44C
44-VQFP	36	800	36	66 (Min.)	10	34	122-1432-ND◆	4.05	3.75	3.50	XC9536-10VQG44C
44-PLCC	36	800	36	55 (Min.)	15	34	122-1433-ND◆	4.00	3.70	3.45	XC9536-15PCG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1434-ND◆	4.00	3.70	3.45	XC9536-15VQG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1394-ND	4.60	4.25	3.95	XC9536-15VQ44I
84-PLCC	72	1600	72	83 (Min.)	7.5	69	122-1262-ND	17.00	14.40	12.45	XC9572-7PC84C
44-PLCC	72	1600	72	66 (Min.)	10	34	122-1439-ND◆	7.50	—	—	XC9572-10PCG44C
84-PLCC	72	1600	72	66 (Min.)	10	69	122-1440-ND◆	10.50	8.85	7.65	XC9572-10PCG84C
44-PLCC	72	1600	72	55 (Min.)	15	34	122-1443-ND◆	5.25	4.45	3.85	XC9572-15PCG44C
84-PLCC	72	1600	72	55 (Min.)	15	69	122-1444-ND◆	7.35	6.20	5.35	XC9572-15PCG84C
100-PQFP	72	1600	72	55 (Min.)	15	72	122-1445-ND◆	12.70	10.75	9.25	XC9572-15PQG100C
100-TQFP	72	1600	72	55 (Min.)	15	72	122-1446-ND◆	12.70	10.75	9.25	XC9572-15TQG100C
100-TQFP	108	2400	108	83 (Min.)	7.5	81	122-1424-ND◆	43.95	37.15	32.11	XC95108-7TQG100C
100-TQFP	108	2400	108	66 (Min.)	10	81	122-1421-ND◆	31.40	26.55	22.91	XC95108-10TQG100C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1460-ND◆	14.55	12.30	10.60	XC95108-15PCG84C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1246-ND	16.70	14.10	12.20	XC95108-15PC84I
100-TQFP	108	2400	108	55 (Min.)	15	81	122-1422-ND◆	18.60	15.70	13.55	XC95108-15TQG100C
100-PQFP	144	3200	144	55 (Min.)	15	81	122-1426-ND◆	20.55	17.35	15.00	XC95144-15PQG100C
100-TQFP	144	3200	144	55 (Min.)	15	81	122-1427-ND◆	20.55	17.35	15.00	XC95144-15TQG100C
3.3 Volt											
44-PLCC	36	800	36	178 (Max.)	5	34	122-1571-5-ND◆	1.44	—	—	XC9536XL-5PCG44C
44-VQFP	36	800	36	178 (Max.)	5	34	122-1465-ND◆	1.44	—	—	XC9536XL-5VQG44C
44-VQFP	36	800	36	125 (Max.)	7.5	34	122-1437-ND◆	1.14	—	—	XC9536XL-7VQG44C
44-PLCC	36	800	36	100 (Max.)	10	34	122-1570-ND◆	1.07	—	—	XC9536XL-10PCG44C
64-VQFP	36	800	36	100 (Max.)	10	36	122-1435-ND◆	1.20	—	—	XC9536XL-10VQG64C
44-VQFP	72	1600	72	125 (Max.)	7.5	34	122-1449-ND◆	2.88	—	—	XC9572XL-7VQG44C
64-VQFP	72	1600	72	125 (Max.)	7.5	52	122-1450-ND◆	3.36	—	—	XC9572XL-7VQG64C
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1466-ND◆	2.04	—	—	XC9572XL-10PCG44C
44-VQFP	72	1600	72	100 (Max.)	10	34	122-1448-ND◆	2.04	—	—	XC9572XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1468-ND◆	3.85	—	—	XCR3064XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1469-ND◆	4.80	—	—	XCR3064XL-10VQG44I
100-VQFP	64	1500	64	192 (Max.)	10	100	122-1470-ND◆	5.00	—	—	XCR3064XL-10VQG100C
100-VQFP	128	3000	128	95 (Max.)	5.5	84	122-1282-ND	9.60	—	—	XCR3128XL-10VQ100C
144-TQFP	256	6000	256	88 (Max.)	7.0	120	122-1283-ND	16.45	—	—	XCR3256XL-12TQ144C
CoolRunner-II — RoHS Compliant											
56-BGA	32	750	32	323 (Max.)	3.8	33	122-1403-ND	1.60	—	—	XC2C32A-3CPG56C
32-QFN	32	750	32	323 (Max.)	3.8	21	122-1412-ND	1.15	1.10	1.00	XC2C32A-6QFG32C
44-VQFP	32	750	32	323 (Max.)	3.8	33	122-1404-ND	1.25	1.20	1.15	XC2C32A-6VQG44C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1419-ND	3.50	3.35	3.20	XC2C64A-5QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1420-ND	3.40	3.25	3.10	XC2C64A-5VQG44C
56-BGA	64	1500	64	263 (Max.)	4.6	45	122-1408-ND	2.80	2.65	2.55	XC2C64A-7CPG56C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1418-ND	2.50	2.40	2.30	XC2C64A-7QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1410-ND	2.45	2.35	2.20	XC2C64A-7VQG44C
100-VQFP	64	1500	64	263 (Max.)	4.6	64	122-1409-ND	3.05	2.90	2.75	XC2C64A-7VQG100C
132-BGA	128	3000	128	244 (Max.)	5.7	100	122-1396-ND	7.30	7.00	6.65	XC2C128-7CPG132C
144-TQFP	128	3000	128	244 (Max.)	5.7	100	122-1397-ND	6.95	6.65	6.30	XC2C128-7TQG144C
100-VQFP	128	3000	128	244 (Max.)	5.7	80	122-1285-ND	5.80	5.55	5.25	XC2C128-7VQG100C
132-BGA	256	6000	256	256 (Max.)	5.7	106	122-1399-ND	16.95	16.25	15.40	XC2C256-7CPG132C
256-FTBGA	256	6000	256	256 (Max.)	5.7	184	122-1400-ND	15.45	14.80	14.05	XC2C256-7FTG256C
208-PQFP	256	6000	256	256 (Max.)	5.7	173	122-1411-ND	14.10	13.50	12.80	XC2C256-7PQG208C

◆ ***RoHS Compliant***

(Continued)

XILINX In-System Programmable CPLDs (Complex Programmable Logic Devices) *(Cont.)*

Package	Macro-cells	Usable Gates	Registers	System Frequency (MHz)	Pin to Pin Delay TPD (ns)	I/O Pins	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
144-TQFP	256	6000	256	256 (Max.)	5.7	118	122-1401-ND	13.65	13.10	12.40	XC2C256-7TQG144C
100-VQFP	256	6000	256	256 (Max.)	5.7	80	122-1402-ND	12.35	11.85	11.25	XC2C256-7VQG100C
256-FBGA	384	9000	384	217 (Max.)	7.1	212	122-1405-ND	34.35	32.90	31.21	XC2C384-10FTG256C
208-PQFP	384	9000	384	217 (Max.)	7.1	173	122-1413-ND	31.85	30.50	28.96	XC2C384-10PQG208C
144-TQFP	384	9000	384	217 (Max.)	7.1	118	122-1406-ND	23.85	22.85	21.65	XC2C384-10TQG144C
256-FTBGA	512	12000	512	179 (Max.)	7.1	212	122-1417-ND	66.55	—	—	XC2C512-7FTG256C
324-FBGA	512	12000	512	179 (Max.)	7.1	270	122-1415-ND	52.90	50.70	48.10	XC2C512-10FGG324C
208-PQFP	512	12000	512	179 (Max.)	7.1	173	122-1416-ND	44.10	42.26	40.06	XC2C512-10PQG208C

◆ ***RoHS Compliant***

Programmable Gate Arrays

FPGA (Field Programmable Gate Arrays)

A Technical Overview: Every Xilinx FPGA performs the function of a custom LSI circuit, like a gate array, but the Xilinx device is user-programmable and even reprogrammable in the system. Xilinx sells standard off-the-shelf devices in many different sizes, speeds, operating temperature ranges and packages. The user selects the appropriate Xilinx device and then converts the design idea or schematic into a configuration data file, using the Xilinx development system software, and loads this file into the Xilinx FPGA. **XC3000A** • Five device types (1300 ~ 7500 gates) • 4-input look-up tables • Flip-flop toggle rate over 110MHz • No on-chip RAM, data storage limited to flip-flops • Use for medium speed, medium complexity applications **XC3100A** • Functionally and bitstream identical with XC3000A series • Five device types (1300 ~ 7500 gates) • 4-input look-up tables • No on-chip RAM, data storage limited to flip-flops • Use for high performance design, system clock up to 100MHz **XC4000** • Benefits of custom CMOS VLSI • Gate ranges from 2,000 ~ 20,000 • Unlimited reprogrammability **XC4000E** • Ten device types (2,000 ~ 25,000 gates) • Dedicated carry network • Function generator can be used as RAM • Use for general purpose logic and data-path logic **XC4000L** • Low voltage version of XC4000E devices (3.0 ~ 3.6V) **XC4000XL** • Low voltage version of the XC4000EX devices (3.0 ~ 3.6V)

Package	Gates	#CLB	I/O Pins	Flip Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC3000A/XC3100A Series										
84-PLCC	9.0K	320	144	928	4.75 ~ 5.25	122-1046-ND	53.25	47.65	44.26	XC3190A-3PC84C
XC4000										
208-PQFP	8.0K	324	144	936	4.75 ~ 5.25	122-1070-ND	167.79	155.91	145.34	XC4008-5PQ208C
XC4000E Series										
84-PLCC	5.0K	196	61	616	4.75 ~ 5.25	122-1180-ND	34.65	31.95	29.71	XC4005E-4PC84C
208-PQFP	6.0K	256	128	768	4.75 ~ 5.25	122-1094-ND	76.29	70.76	65.81	XC4006E-3PQ208C
160-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1103-ND	131.00	121.00	112.00	XC4010E-3PQ160C
208-PQFP	13.0K	576	160	1536	4.75 ~ 5.25	122-1111-ND	290.00	268.00	248.01	XC4013E-2PQ208C
XC4000L Series										
84-PLCC	5.0K	196	61	616	3.0 ~ 3.6	122-1120-ND	32.86	29.54	27.32	XC4005L-5PC84C
100-PQFP	5.0K	196	81	616	3.0 ~ 3.6	122-1121-ND	49.74	41.74	36.26	XC4005L-5PQ100C
208-PQFP	5.0K	196	112	616	3.0 ~ 3.6	122-1122-ND	47.56	44.14	41.14	XC4005L-5PQ208C
84-PLCC	10.0K	400	61	1120	3.0 ~ 3.6	122-1123-ND	80.35	71.88	66.62	XC4010L-5PC84C
208-PQFP	13.0K	576	160	1536	3.0 ~ 3.6	122-1125-ND	200.00	168.00	146.00	XC4013L-5PQ208C
XC4000XL Series										
240-HQFP	36.0K	1296	193	3168	3.0 ~ 3.6	122-1130-ND	279.00	250.00	216.00	XC4036XL-2HQ240C

Serial Configuration PROMs

Package	Memory Size	Voltage	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC17/18 OTP Series							
8-Dip	36K	5	122-1509-ND◆	4.15	3.50	3.05	XC1736EPDG8C
8-SOIC	65K	3	122-1194-ND	6.55	5.55	4.80	XC1765ELVO8C
20-PLCC	1.0M	3.3	122-1463-ND◆	20.00	16.95	14.65	XC18V01PCG20C
20-SOIC	1.0M	3.3	122-1464-ND◆	20.00	16.95	14.65	XC18V01SOG20C

Package	Memory Size	VCCINT	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XCF Flash Prom Series — RoHS Compliant							
20-TSSOP	1.0M	3.3	122-1286-5-ND	3.15	3.10	3.00	XCF01SVOG20C
20-TSSOP	2.0M	3.3	122-1287-5-ND	4.25	4.15	4.05	XCF02SVOG20C
20-TSSOP	4.0M	3.3	122-1288-5-ND	6.95	6.80	6.60	XCF04SVOG20C
48-CSBGA	8.0M	1.8	122-1453-ND	12.10	11.80	11.45	XCF08PFSG48C
48-TSOP	8.0M	1.8	122-1454-5-ND	12.10	11.80	11.45	XCF08PVOG48C
48-CSBGA	16.0M	1.8	122-1455-ND	16.15	15.75	15.30	XCF16PFSG48C
48-TSOP	16.0M	1.8	122-1456-5-ND	16.15	15.75	15.30	XCF16PVOG48C
48-CSBGA	32.0M	1.8	122-1457-ND	26.25	25.65	24.91	XCF32PFSG48C
48-TSOP	32.0M	1.8	122-1458-ND	26.25	25.65	24.91	XCF32PVOG48C
64-FTBGA	128M	1.8	122-1578-ND	48.00	—	—	XCF128XFTG64C

◆ ***RoHS Compliant***

ROMAN-JONES, INC. Xilinx Serial PROM Programmer

The Xilinx Serial PROM Programmer provides a low-cost alternative for programming any Xilinx XC17xx Family Serial PROM devices. The programmer product consists of an external programmer and associated interface software. The programmer and software have been tested and certified by Xilinx.

Features: • Parallel port interface which can be directly connected (if cable is desired - recommend M7PSG-2506J-ND) • Coexists with printers using an A/B switchbox • No special interface cards required • Operates on 9 volt battery (not included, recommend P145-ND) • Supports ALL Xilinx Serial PROMs • Simple user interface. Easy-to-use software • Supported under DOS 2.2 or greater, Windows 95/98 and Windows NT 4.0 • Supports both Intel Hex and Binary files generated by Xilinx compilers

- **Software not included. Requires downloading from www.roman-jones.com**
- **Free updates also available via FTP download**

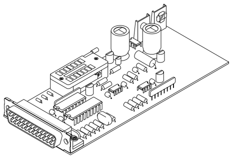

Description	Digi-Key Part No.	Price Each
Programmer		
SPROM Programmer with 8-Dip ZIF Socket	SPROM-TZS-ND	140.23
Adapters		
8-Pin Dip to 8-Pin SOIC/VOIC	SA1-ND	45.04
8-Pin Dip to 44-Pin VQFP	SA2-ND	96.14
8-Pin Dip to 20-Pin PLCC	SA3-ND	50.05
8-Pin Dip to 20-Pin SOIC	SA4-ND	55.06
8-Pin Dip to 44-Pin PLCC	SA5-ND	65.08

ALTERA® FPGAs

ARRIA®: Combines protocol-optimized serial transceivers with reliable packaging technology and a proven logic array. These devices include 4 ~ 12 high-speed transceiver channels, each incorporating clock/data recovery (CDR) technology and embedded SERDES circuitry optimally designed to support PCI-Express, Gigabit Ethernet, and Serial RapidIO protocols. The transceivers have been optimized to simply and efficiently implement bridging and endpoint applications.
ARRIA II: GX FPGA family offers a range of devices from 17K ~ 260K logic elements, provides up to 11.8Mb of memory, and supports up to 16 transceivers. Arria II GX FPGAs support vertical migration, which allows the flexibility of starting designs today with one device and, if desired, moving to a different density device later.
ACEX®: High-performance embedded RAM blocks that can implement dual-port RAM, ROM, FIFO or logic • 64-bit, 66MHz PCI support • PLLs for clock management • ClockBoost® feature to multiply the system clock inside the ACEX 1K device • MultiVolt™ I/O operation
APEX™: With devices ranging from 30,000 ~ 1.5 million system gates and clock rates up to 840MHz, Altera's APEX 20K FPGA family offers complete system-level integration on a single device, leading to extensive cost and performance advantages.
CYCLONE®/CYCLONE II: A low-cost alternative to ASICs. Cyclone provides a flexible, risk-free option without up-front non-recurring engineering charges. A low-cost solution unmatched by any other FPGA Cyclone II devices offer advanced features such as embedded 18 x 18 multipliers for high-performance (DSP) applications and support for memory interfaces such as DDR2 (up to 334 Mbps) and QDRII (up to 668 Mbps).
CYCLONE III: Delivers an unprecedented combination of low power, high functionality, and low cost. Cyclone III FBGAs also include a number of features and enhancements, intellectual property support, and other design resources to optimize them for use in specific application areas.
CYCLONE IV: device family extends the Cyclone FPGA series leadership in providing the market's lowest cost, lowest power FPGA's now with a transceiver variant. Cyclone IV devices are targeted to high-volume, cost-sensitive applications, enabling system designers to meet increasing bandwidth requirements while lowering costs. Built on an optimized low-power process, the Cyclone IV device family offers two variants: • **Cyclone IV E:** lowest power, high functionality with the lowest cost • **Cyclone IV GX:** lowest power and lowest cost FPGA's with 3.125 Gbps transceivers
STRATIX®: This device family is based on a 1.5V, 0.13µm, all-layer-copper process • Up to 79,040 logic elements • 7Mbits of embedded memory, optimized (DSP) blocks, and high-performance I/O capabilities.
STRATIX II: Based on a 1.2V, 90nm, SRAM process, with densities from 15,600 ~ 179,400 logic elements. Up to 9Mbits of on-chip RAM. Up to 12 PLLs and 16 global clock networks. Up to 384 embedded multipliers in DSP blocks, source-synchronous differential signaling with dedicated (DPA) circuitry operating at up to 1.040 Gbps. • Dedicated serializer/deserializer (SERDES) circuitry to support the LVDS and HyperTransport™ differential I/O electrical standards, supports 10 Gigabit Ethernet XSBI, SFI-4, SPI-4.2, HyperTransport, RadioIO™ and UTOPIA IV standards.
STRATIX II GX: This device family is Altera's third generation of FPGAs to combine high-speed serial transceivers with a scalable, high-performance logic array. Stratix II GX devices include 4 ~ 20 high-speed transceiver channels, each incorporating clock/data recovery (CRU) technology and embedded SERDES capability at data rates of up to 6.375Gbps. The transceivers are grouped into four-channel transceiver blocks, and are designed for low power consumption and small die size. The Stratix II GX FPGA technology is built upon the Stratix II architecture, and offers a 1.2V logic array. This makes Stratix II GX devices ideal for high-speed backplane interface, chip-to-chip, and communications protocol-bridging applications.
STRATIX III: This family includes the following two device variants: • Stratix III L devices focus on logic-rich applications • Stratix III E devices focus on digital signal processing (DSP)-rich and memory-rich applications. • The Stratix III offers vertical migrations, not only within, but across the L and E variants to offer the most flexibility in device selection. Altera has taken the industry leading architecture of the Stratix device series and refined it even further for a 65-nm process node. As a result, Stratix FPGAs are the ideal solution for your next generation high-end designs.
STRATIX IV: A breakthrough level of system bandwidth and power efficiency for high-end applications, allowing you to innovate without compromise. Based on the Taiwan Semiconductor Manufacturing Company (TSMC) 40-nm process technology and surpass all other high-end FPGAs, with the highest logic density, most transceivers, and lowest power requirements.
STRATIX IV GX: These transceivers are based on 40nm technology and include a number of features that ensure excellent jitter performance combined with superior signal integrity for both backplane and chip-to-chip applications.
FLEX® 6000: Programmable logic device family delivers the flexibility and time-to-market of programmable logic at prices that are competitive with gate arrays. Featuring the industry's most efficient architecture (OptiFLEX, FLEX 6000 devices provide a flexible and cost-effective alternative to ASICs for high-volume production.
FLEX 8000: Offers devices ranging from 2,500 ~ 16,000 gates with fast, predictable interconnect delays. The Flex 8000 family combines the high speed, predictable timing, and ease-of-use of EPLDs with the high register count, low standby power, and in-circuit reconfigurability of FPGAs.
FLEX 10K: Embedded programmable logic family delivers the flexibility of traditional programmable logic together with the efficiency and density of embedded gate arrays. Ranging from 10,000 ~ 250,000 typical gates, and up to 204MHz system speed. FLEX 10K devices are specifically designed to meet the demands of mid-density gate array designs.

Package	Logic Elements	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
ARRIA — RoHS Compliant								
484-FBGA	21,580	230	1.2V	1,229,184	Fast	544-2395-ND	170.00	EP1AGX20CF484C6N
780-FBGA	21,580	341	1.2V	1,229,184	Fast	544-2373-ND	210.00	EP1AGX20CF780C6N
780-FBGA	50,160	350	1.2V	2,475,072	Fast	544-2375-ND	430.00	EP1AGX50DF780C6N
780-FBGA	50,160	350	1.2V	2,475,072	Fast	544-2383-ND	516.00	EP1AGX50DF780I6N
1152-FBGA	50,160	514	1.2V	2,475,072	Fast	544-2376-ND	530.00	EP1AGX50DF1152C6N
484-FBGA	60,100	229	1.2V	2,528,640	Fast	544-2398-ND	420.00	EP1AGX60CF484C6N
780-FBGA	60,100	350	1.2V	2,528,640	Fast	544-2377-ND	520.00	EP1AGX60DF780C6N
1152-FBGA	90,220	538	1.2V	4,477,824	Fast	544-2379-ND	730.00	EP1AGX90EF1152C6N
1152-FBGA	90,220	538	1.2V	4,477,824	Fast	544-2387-ND	876.00	EP1AGX90EF1152I6N
NEW! ARRIA II NEW!								
358-UBGA	42,959	156	1.2V	3,435	Fast	544-2711-ND◆	420.00	EP2AGX45CU17C4N
572-FBGA	42,959	252	1.2V	3,435	Fast	544-2708-ND◆	455.00	EP2AGX45DF25C4N
572-FBGA	42,959	252	1.2V	3,435	Medium	544-2643-ND◆	389.90	EP2AGX45DF25C5N
780-FBGA	42,959	364	1.2V	3,435	Fastest	544-2701-ND†◆	600.00	EP2AGX45DF29I3N
780-FBGA	42,959	364	1.2V	3,435	Fast	544-2700-ND◆	525.00	EP2AGX45DF29C4N
780-FBGA	42,959	364	1.2V	3,435	Medium	544-2642-ND◆	450.00	EP2AGX45DF29C5N
358-UBGA	60,214	156	1.2V	5,246	Fast	544-2712-ND◆	595.00	EP2AGX65CU17C4N
572-FBGA	60,214	252	1.2V	5,246	Fast	544-2709-ND◆	630.00	EP2AGX65DF25C4N
572-FBGA	60,214	252	1.2V	5,246	Medium	544-2641-ND◆	540.00	EP2AGX65DF25C5N
780-FBGA	60,214	364	1.2V	5,246	Fastest	544-2702-ND†◆	800.00	EP2AGX65DF29I3N
780-FBGA	60,214	364	1.2V	5,246	Fast	544-2703-ND◆	700.00	EP2AGX65DF29C4N
780-FBGA	60,214	364	1.2V	5,246	Medium	544-2640-ND◆	599.90	EP2AGX65DF29C5N
572-FBGA	118,143	260	1.2V	8,121	Fast	544-2710-ND◆	1190.00	EP2AGX125DF25C4N
572-FBGA	118,143	260	1.2V	8,121	Slow	544-2595-5-ND◆	850.00	EP2AGX125DF25C6N
780-FBGA	118,143	372	1.2V	8,121	Fastest	544-2705-ND†◆	1440.00	EP2AGX125EF29I3N
780-FBGA	118,143	372	1.2V	8,121	Fast	544-2704-ND◆	1260.00	EP2AGX125EF29C4N
780-FBGA	118,143	372	1.2V	8,121	Medium	544-2645-ND◆	1080.00	EP2AGX125EF29C5N
780-FBGA	118,143	372	1.2V	8,121	Slow	544-2596-5-ND◆	900.00	EP2AGX125EF29C6N
1152-FBGA	118,143	452	1.2V	8,121	Slow	544-2597-5-ND	1099.83	EP2AGX125EF35C6
1152-FBGA	118,143	452	1.2V	8,121	Fast	544-2697-ND◆	1400.00	EP2AGX125EF35C4N
1152-FBGA	118,143	452	1.2V	8,121	Medium	544-2598-5-ND◆	1200.00	EP2AGX125EF35C5N
1152-FBGA	118,143	452	1.2V	8,121	Slow	544-2599-5-ND◆	1000.00	EP2AGX125EF35C6N
780-FBGA	244,188	372	1.2V	11,756	Fast	544-2706-ND◆	2240.00	EP2AGX260EF29C4N
780-FBGA	244,188	372	1.2V	11,756	Fastest	544-2707-ND†◆	2560.00	EP2AGX260EF29I3N
1152-FBGA	244,188	612	1.2V	11,756	Fast	544-2698-ND◆	2520.00	EP2AGX260FF35C4N
1152-FBGA	244,188	612	1.2V	11,756	Fastest	544-2699-ND†◆	2880.00	EP2AGX260FF35I3N
ACEX								
100-TQFP	576	66	2.5V	12,288	Slow	544-1027-ND	10.56	EP1K10TC100-3
100-TQFP	576	66	2.5V	12,288	Slow	544-1828-ND◆	10.56	EP1K10TC100-3N
144-TQFP	576	92	2.5V	12,288	Medium	544-1829-ND◆	16.50	EP1K10TC144-2N
144-TQFP	576	92	2.5V	12,288	Slow	544-1064-ND	12.30	EP1K10TC144-3
144-TQFP	576	92	2.5V	12,288	Slow	544-1830-ND◆	12.30	EP1K10TC144-3N
208-PQFP	576	120	2.5V	12,288	Slow	544-1090-ND	13.80	EP1K10QC208-3
208-PQFP	576	120	2.5V	12,288	Slow	544-1827-ND◆	13.80	EP1K10QC208-3N
144-TQFP	1,728	102	2.5V	24,576	Fast	544-1065-ND	34.80	EP1K30TC144-1
144-TQFP	1,728	102	2.5V	24,576	Fast	544-1837-ND◆	34.80	EP1K30TC144-1N
144-TQFP	1,728	102	2.5V	24,576	Medium	544-1066-ND	23.70	EP1K30TC144-2
144-TQFP	1,728	102	2.5V	24,576	Medium	544-1838-ND◆	23.70	EP1K30TC144-2N
144-TQFP	1,728	102	2.5V	24,576	Slow	544-1067-ND	17.40	EP1K30TC144-3
144-TQFP	1,728	102	2.5V	24,576	Slow	544-1839-ND◆	17.40	EP1K30TC144-3N
144-TQFP	1,728	102	2.5V	24,576	Medium	544-1068-ND†	34.80	EP1K30TI144-2
208-PQFP	1,728	147	2.5V	24,576	Fast	544-1834-ND◆	40.20	EP1K30QC208-1N
208-PQFP	1,728	147	2.5V	24,576	Medium	544-1005-ND	27.00	EP1K30QC208-2
208-PQFP	1,728	147	2.5V	24,576	Slow	544-1006-ND	20.10	EP1K30QC208-3
208-PQFP	1,728	147	2.5V	24,576	Slow	544-1836-ND◆	20.10	EP1K30QC208-3N
256-FBGA	1,728	171	2.5V	24,576	Medium	544-1831-ND	30.60	EP1K30FC256-2
256-FBGA	1,728	171	2.5V	24,576	Slow	544-1029-ND	22.80	EP1K30FC256-3
256-FBGA	1,728	171	2.5V	24,576	Slow	544-1832-ND◆	22.80	EP1K30FC256-3N
144-TQFP	2,880	102	2.5V	40,960	Fast	544-1072-ND	49.20	EP1K50TC144-1
144-TQFP	2,880	102	2.5V	40,960	Medium	544-1073-ND	33.00	EP1K50TC144-2
144-TQFP	2,880	102	2.5V	40,960	Medium	544-1848-ND◆	33.00	EP1K50TC144-2N
144-TQFP	2,880	102	2.5V	40,960	Slow	544-1074-ND	24.60	EP1K50TC144-3
144-TQFP	2,880	102	2.5V	40,960	Slow	544-1849-ND◆	24.60	EP1K50TC144-3N
144-TQFP	2,880	102	2.5V	40,960	Medium	544-1075-ND†	49.20	EP1K50TI144-2
208-PQFP	2,880	147	2.5V	40,960	Fast	544-1007-ND	54.00	EP1K50QC208-1
208-PQFP	2,880	147	2.5V	40,960	Fast	544-1843-ND◆	54.00	EP1K50QC208-1N
208-PQFP	2,880	147	2.5V	40,960	Medium	544-1008-ND	36.60	EP1K50QC208-2
208-PQFP	2,880	147	2.5V	40,960	Medium	544-1844-ND◆	36.60	EP1K50QC208-2N
208-PQFP	2,880	147	2.5V	40,960	Slow	544-1009-ND	27.00	EP1K50QC208-3
208-PQFP	2,880	147	2.5V	40,960	Slow	544-1845-ND◆	27.00	EP1K50QC208-3N
208-PQFP	2,880	147	2.5V	40,960	Medium	544-1846-ND◆†	54.00	EP1K50QI208-2N
256-FBGA	2,880	186	2.5V	40,960	Fast	544-1030-ND	68.40	EP1K50FC256-1
256-FBGA	2,880	186	2.5V	40,960	Medium	544-1841-ND◆	46.20	EP1K50FC256-2N
256-FBGA	2,880	186	2.5V	40,960	Slow	544-1032-ND	34.20	EP1K50FC256-3
484-FBGA	2,880	249	2.5V	40,960	Slow	544-1071-ND	42.00	EP1K50FC484-3
208-PQFP	4,992	147	2.5V	49,152	Fast	544-1000-ND	75.60	EP1K100QC208-1
208-PQFP	4,992	147	2.5V	49,152	Fast	544-1823-ND◆	75.60	EP1K100QC208-1N
208-PQFP	4,992	147	2.5V	49,152	Medium	544-1001-ND	51.60	EP1K100QC208-2
208-PQFP	4,992	147	2.5V	49,152	Medium	544-1824-ND◆	51.60	EP1K100QC208-2N
208-PQFP	4,992	147	2.5V	49,152	Slow	544-1002-ND	37.80	EP1K100QC208-3
208-PQFP	4,992	147	2.5V	49,152	Slow	544-1825-ND◆	37.80	EP1K100QC208-3N
208-PQFP	4,992	147	2.5V	49,152	Medium	544-1826-ND◆†	72.00	EP1K100QI208-2N
256-FBGA	4,992	186	2.5V	49,152	Fast	544-1022-ND	94.80	EP1K100FC256-1
256-FBGA	4,992	186	2.5V	49,152	Fast	544-1819-ND◆	94.80	EP1K100FC256-1N
256-FBGA	4,992	186	2.5V	49,152	Medium	544-1023-ND	63.60	EP1K100FC256-2
256-FBGA	4,992	186	2.5V	49,152	Medium	544-1820-ND◆	63.60	EP1K100FC256-2N
256-FBGA	4,992	186	2.5V	49,152	Slow	544-1024-ND	47.40	EP1K100FC256-3
256-FBGA	4,992	186	2.5V	49,152	Slow	544-1821-ND◆	47.40	EP1K100FC256-3N
256-FBGA	4,992	186	2.5V	49,152	Medium	544-1025-ND†	94.80	EP1K100FI256-2
484-FBGA	4,992	333	2.5V	49,152	Medium	544-1061-ND	82.80	EP1K100FC484-2
484-FBGA	4,992	333	2.5V	49,152	Slow	544-1062-ND	62.40	EP1K100FC484-3
484-FBGA	4,992	333	2.5V	49,152	Medium	544-1063-ND†	116.40	EP1K100FI484-2
APEX								
144-TQFP	1,200	92	1.8V	24,576	Slow	544-1865-ND	33.60	EP20K30ETC144-3
324-FBGA	4,160	246	1.8V	53,248	Slow	544-1092-ND	98.40	EP20K100EFC324-3
240-PQFP	4,160	189	2.5V	53,248	Slow	544-1094-ND	86.40	EP20K100QC240-3
652-BGA	16,640	488	1.8V	212,992	Fast	544-2094-ND	972.00	EP20K400EBC652-1X
CYCLONE								
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1014-ND	17.60	EP1C3T100C6
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1799-ND◆	16.00	EP1C3T100C6N
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1015-ND	14.08	EP1C3T100C7
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1800-ND◆	12.80	EP1C3T100C7N
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1016-ND	11.77	EP1C3T100C8
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1664-ND◆	10.70	EP1C3T100C8N
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1017-ND†	17.60	EP1C3T100I7
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1663-ND◆†	16.00	EP1C3T100I7N
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1050-ND	20.24	EP1C3T144C6
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1662-ND◆	18.40	EP1C3T144C6N
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1051-ND	16.17	EP1C3T144C7
144-TQFP	2,910	401	1.5V	59,904	Medium	544-1661-ND◆	14.70	EP1C3T144C7N
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1052-ND	13.53	EP1C3T144C8
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1801-ND◆	12.30	EP1C3T144C8N
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1053-ND†	20.24	EP1C3T144I7
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1802-ND◆†	18.40	EP1C3T144I7N
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1042-ND	31.68	EP1C4F324C6
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1803-ND◆	28.80	EP1C4F324C6N
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1043-ND	25.41	EP1C4F324C7
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1044-ND	21.12	EP1C4F324C8
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1804-ND◆	19.20	EP1C4F324C8N
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1054-ND	38.17	EP1C4F400C6
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1805-ND◆	34.70	EP1C4F400C6N
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1055-ND	25.41	EP1C4F400C8
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1806-ND◆	23.10	EP1C4F400C8N
400-FBGA	4,000	301	1.5V	78,336	Medium	544-2080-ND†	38.17	EP1C4F400I7

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

(Continued)

Package	Logic Elements	I/O Pins	Oper-ating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1056-ND	28.93	EP1C6T144C6
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1815-ND◆	26.30	EP1C6T144C6N
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1057-ND	22.99	EP1C6T144C7
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1816-ND◆	20.90	EP1C6T144C7N
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1058-ND	19.25	EP1C6T144C8
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1817-ND◆	17.50	EP1C6T144C8N
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1059-ND†	28.93	EP1C6T144I7
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1818-ND◆†	26.30	EP1C6T144I7N
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1083-ND	31.24	EP1C6Q240C6
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1811-ND◆	28.40	EP1C6Q240C6N
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1084-ND	24.97	EP1C6Q240C7
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1812-ND◆	22.70	EP1C6Q240C7N
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1085-ND	20.79	EP1C6Q240C8
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1813-ND◆	18.90	EP1C6Q240C8N
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1086-ND†	31.24	EP1C6Q240I7
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1814-ND◆†	28.40	EP1C6Q240I7N
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1018-ND	35.64	EP1C6F256C6
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1807-ND◆	32.40	EP1C6F256C6N
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1020-ND	23.76	EP1C6F256C8
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1809-ND◆	21.60	EP1C6F256C8N
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1810-ND◆†	32.40	EP1C6F256I7N
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1079-ND	58.52	EP1C12Q240C6
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1793-ND◆	53.20	EP1C12Q240C6N
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1080-ND	46.75	EP1C12Q240C7
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1794-ND◆	42.50	EP1C12Q240C7N
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1081-ND	39.05	EP1C12Q240C8
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1795-ND◆	35.50	EP1C12Q240C8N
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1082-ND†	58.52	EP1C12Q240I7
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1796-ND◆†	53.20	EP1C12Q240I7N
256-FBGA	12,060	185	1.5V	239,616	Fast	544-1789-ND◆	56.00	EP1C12F256C6N
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1011-ND	49.28	EP1C12F256C7
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1790-ND◆	44.80	EP1C12F256C7N
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1012-ND	41.03	EP1C12F256C8
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1791-ND◆	37.30	EP1C12F256C8N
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1034-ND	64.57	EP1C12F324C6
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1680-ND◆	58.70	EP1C12F324C6N
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1035-ND	51.59	EP1C12F324C7
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1679-ND◆	46.90	EP1C12F324C7N
324-FBGA	12,060	249	1.5V	239,616	Slow	544-1792-ND◆	39.10	EP1C12F324C8N
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1037-ND†	64.57	EP1C12F324I7
324-FBGA	20,060	233	1.5V	294,912	Fast	544-1797-ND◆	90.00	EP1C20F324C6N
324-FBGA	20,060	301	1.5V	294,912	Medium	544-1678-ND◆	72.00	EP1C20F324C7N
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1040-ND	66.00	EP1C20F324C8
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1798-ND◆	60.00	EP1C20F324C8N
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1041-ND†	99.00	EP1C20F324I7
324-FBGA	20,060	301	1.5V	294,912	Medium	544-1677-ND◆†	90.00	EP1C20F324I7N
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1046-ND	108.57	EP1C20F400C6
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1687-ND◆	98.70	EP1C20F400C6N
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1047-ND	86.79	EP1C20F400C7
400-FBGA	20,060	301	1.5V	294,912	Slow	544-1048-ND	72.27	EP1C20F400C8
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1049-ND†	108.57	EP1C20F400I7
CYCLONE II								
144-TQFP	4,608	89	1.2V	119,808	Fast	544-2136-ND	21.12	EP2C5T144C6
144-TQFP	4,608	89	1.2V	119,808	Fast	544-2137-ND◆	19.20	EP2C5T144C6N
144-TQFP	4,608	158	1.2V	119,808	Medium	544-1449-ND	16.83	EP2C5T144C7
144-TQFP	4,608	158	1.2V	119,808	Medium	544-1655-ND◆	15.30	EP2C5T144C7N
144-TQFP	4,608	158	1.2V	119,808	Slow	544-1450-ND	14.08	EP2C5T144C8
144-TQFP	4,608	158	1.2V	119,808	Slow	544-1665-ND◆	12.80	EP2C5T144C8N
144-TQFP	4,608	89	1.2V	119,808	Slow	544-2138-ND†	16.83	EP2C5T144I8
144-TQFP	4,608	89	1.2V	119,808	Slow	544-2139-ND◆†	15.30	EP2C5T144I8N
208-PQFP	4,608	158	1.2V	119,808	Medium	544-1447-ND	18.37	EP2C5Q208C7
208-PQFP	4,608	158	1.2V	119,808	Medium	544-1674-ND◆	16.70	EP2C5Q208C7N
208-PQFP	4,608	158	1.2V	119,808	Slow	544-1448-ND	15.29	EP2C5Q208C8
208-PQFP	4,608	158	1.2V	119,808	Slow	544-1673-ND◆	13.90	EP2C5Q208C8N
208-PQFP	4,608	142	1.2V	119,808	Slow	544-2134-ND†	18.37	EP2C5Q208I8
208-PQFP	4,608	142	1.2V	119,808	Slow	544-2135-ND◆†	16.70	EP2C5Q208I8N
256-FBGA	4,608	158	1.2V	119,808	Fast	544-2131-ND◆	22.40	EP2C5F256C6N
256-FBGA	4,608	158	1.2V	119,808	Medium	544-1445-ND	19.69	EP2C5F256C7
256-FBGA	4,608	158	1.2V	119,808	Medium	544-1657-ND◆	17.90	EP2C5F256C7N
256-FBGA	4,608	158	1.2V	119,808	Slow	544-1446-ND	16.39	EP2C5F256C8
256-FBGA	4,608	158	1.2V	119,808	Slow	544-1656-ND◆	14.90	EP2C5F256C8N
256-FBGA	4,608	158	1.2V	119,808	Slow	544-2132-ND†	19.69	EP2C5F256I8
256-FBGA	4,608	158	1.2V	119,808	Slow	544-2133-ND◆†	17.90	EP2C5F256I8N
144-TQFP	8,256	85	1.2V	165,888	Fast	544-2154-ND	31.68	EP2C8T144C6
144-TQFP	8,256	85	1.2V	165,888	Fast	544-2155-ND◆	28.80	EP2C8T144C6N
144-TQFP	8,256	182	1.2V	165,888	Medium	544-1667-ND◆	23.10	EP2C8T144C7N
144-TQFP	8,256	182	1.2V	165,888	Slow	544-1458-ND	21.12	EP2C8T144C8
144-TQFP	8,256	182	1.2V	165,888	Slow	544-1666-ND◆	19.20	EP2C8T144C8N
144-TQFP	8,256	85	1.2V	165,888	Slow	544-2156-ND†	25.41	EP2C8T144I8
144-TQFP	8,256	85	1.2V	165,888	Slow	544-2157-ND◆†	23.10	EP2C8T144I8N
208-PQFP	8,256	182	1.2V	165,888	Medium	544-1455-ND	26.73	EP2C8Q208C7
208-PQFP	8,256	182	1.2V	165,888	Medium	544-1672-ND◆	24.30	EP2C8Q208C7N
208-PQFP	8,256	182	1.2V	165,888	Slow	544-1456-ND	22.33	EP2C8Q208C8
208-PQFP	8,256	182	1.2V	165,888	Slow	544-1671-ND◆	20.30	EP2C8Q208C8N
208-PQFP	8,256	138	1.2V	165,888	Slow	544-2152-ND†	26.73	EP2C8Q208I8
208-PQFP	8,256	138	1.2V	165,888	Slow	544-2153-ND◆†	24.30	EP2C8Q208I8N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1776-ND◆	28.10	EP2C8AF256I8N
256-FBGA	8,256	182	1.2V	165,888	Medium	544-1453-ND	30.91	EP2C8F256C7
256-FBGA	8,256	182	1.2V	165,888	Medium	544-1654-ND◆	28.10	EP2C8F256C7N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1454-ND	25.85	EP2C8F256C8
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1653-ND◆	23.50	EP2C8F256C8N
256-FBGA	8,256	182	1.2V	165,888	Fast	544-2148-ND	38.72	EP2C8F256C6
256-FBGA	8,256	182	1.2V	165,888	Fast	544-2149-ND◆	35.20	EP2C8F256C6N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-2150-ND†	30.91	EP2C8F256I8
256-FBGA	8,256	182	1.2V	165,888	Slow	544-2151-ND◆†	28.10	EP2C8F256I8N
256-FBGA	14,448	315	1.2V	239,616	Fast	544-1777-ND◆	52.00	EP2C15AF256C6N
256-FBGA	14,448	152	1.2V	239,616	Medium	544-2097-ND◆	41.60	EP2C15AF256C7N
256-FBGA	14,448	152	1.2V	239,616	Slow	544-2098-ND◆	34.70	EP2C15AF256C8N
256-FBGA	14,448	315	1.2V	239,616	Slow	544-1780-ND◆†	41.60	EP2C15AF256I8N
484-FBGA	14,448	315	1.2V	239,616	Fast	544-1778-ND◆	58.40	EP2C15AF484C6N
484-FBGA	14,448	315	1.2V	239,616	Slow	544-2100-ND◆	38.90	EP2C15AF484C8N
484-FBGA	14,448	315	1.2V	239,616	Slow	544-1779-ND◆†	46.70	EP2C15AF484I8N
240-PQFP	18,752	142	1.2V	239,616	Slow	544-2106-ND	46.97	EP2C20Q240C8
240-PQFP	18,752	142	1.2V	239,616	Slow	544-2107-ND◆	42.70	EP2C20Q240C8N
256-FBGA	18,752	315	1.2V	239,616	Slow	544-1781-ND◆†	51.20	EP2C20AF256I8N
256-FBGA	18,752	152	1.2V	239,616	Fast	544-1360-ND	70.40	EP2C20F256C6
256-FBGA	18,752	315	1.2V	239,616	Fast	544-1660-ND◆	64.00	EP2C20F256C6N
256-FBGA	18,752	315	1.2V	239,616	Medium	544-1659-ND◆	51.20	EP2C20F256C7N
256-FBGA	18,752	152	1.2V	239,616	Slow	544-1362-ND	46.97	EP2C20F256C8
256-FBGA	18,752	315	1.2V	239,616	Slow	544-1658-ND◆	42.70	EP2C20F256C8N
256-FBGA	18,752	152	1.2V	239,616	Slow	544-2102-ND†	56.32	EP2C20F256I8
256-FBGA	18,752	152	1.2V	239,616	Slow	544-2103-ND◆†	51.20	EP2S20F256I8N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2101-ND◆†	56.30	EP2C20AF484I8N
484-FBGA	18,752	315	1.2V	239,616	Fast	544-1363-ND	77.44	EP2C20F484C6
484-FBGA	18,752	315	1.2V	239,616	Fast	544-1670-ND◆	70.40	EP2C20F484C6N
484-FBGA	18,752	315	1.2V	239,616	Medium	544-1364-ND	61.93	EP2C20F484C7
484-FBGA	18,752	315	1.2V	239,616	Medium	544-1669-ND◆	56.30	EP2C20F484C7N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-1365-ND	51.59	EP2C20F484C8
484-FBGA	18,752	315	1.2V	239,616	Slow	544-1668-ND◆	46.90	EP2C20F484C8N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2104-ND†	61.93	EP2C20F484I8
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2105-ND◆†	56.30	EP2C20F484I8N
484-FBGA	33,216	322	1.2V	483,840	Fast	544-1076-ND	149.60	EP2C35F484C6
484-FBGA	33,216	475	1.2V	483,840	Fast	544-1686-ND◆	136.00	EP2C35F484C6N
484-FBGA	33,216	322	1.2V	483,840	Medium	544-1077-ND	124.63	EP2C35F484C7
484-FBGA	33,216	475	1.2V	483,840	Medium	544-1685-ND◆	113.30	EP2C35F484C7N
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1078-ND	99.77	EP2C35F484C8
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1366-ND◆	90.70	EP2C35F484C8N
484-FBGA	33,216	322	1.2V	483,840	Slow	544-2108-ND†	124.63	EP2C35F484I8
484-FBGA	33,216	322	1.2V	483,840	Slow	544-2109-ND◆†	113.30	EP2C35F484I8N
484-UBGA	33,216	322	1.2V	483,840	Fast	544-2112-ND	149.60	EP2C35U484C6
484-UBGA	33,216	322	1.2V	483,840	Slow	544-2114-ND◆	90.70	EP2C35U484C8N
484-UBGA	33,216	322	1.2V	483,840	Slow	544-2115-ND◆†	113.30	EP2C35U484I8N
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1087-ND	164.56	EP2C35F672C6
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1694-ND◆	149.60	EP2C35F672C6N
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1088-ND	137.17	EP2C35F672C7
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1693-ND◆	124.70	EP2C35F672C7N
672-FBGA	33,216	475	1.2V	483,840	Slow	544-1692-ND◆	99.70	EP2C35F672C8N
672-FBGA	33,216	475	1.2V	483,840	Slow	544-2110-ND†	137.17	EP2C35F672I8
672-FBGA	33,216	475	1.2V	483,840	Slow	544-2111-ND◆†	124.70	EP2C35F672I8N
484-FBGA	50,528	294	1.2V	594,432	Fast	544-2116-ND	264.00	EP2C50F484C6
484-FBGA	50,528	294	1.2V	594,432	Fast	544-2117-ND◆	240.00	EP2C50F484C6N
484-FBGA	50,528	294	1.2V	594,432	Medium	544-2119-ND◆	192.00	EP2C50F484C7N
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2121-ND◆	160.00	EP2C50F484C8N
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2122-ND†	211.20	EP2C50F484I8
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2123-ND◆†	192.00	EP2C50F484I8N
672-FBGA	50,528	450	1.2V	594,432	Fast	544-2124-ND	281.60	EP2C50F672C6
672-FBGA	50,528	450	1.2V	594,432	Fast	544-2125-ND◆	256.00	EP2C50F672C6N
672-FBGA	50,528	450	1.2V	594,432	Slow	544-1690-ND◆	171.00	EP2C50F672C8N
672-FBGA	50,528	450	1.2V	594,432	Slow	544-2126-ND†	225.50	EP2C50F672I8
672-FBGA	50,528	450	1.2V	594,432	Slow	544-2127-ND◆†	205.00	EP2C50F672I8N
672-FBGA	68,416	422	1.2V	1,152,000	Fast	544-2141-ND◆	352.00	EP2C70F672C6N
672-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1689-ND◆	282.00	EP2C70F672C7N
672-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1688-ND◆	235.00	EP2C70F672C8N
672-FBGA	68,416	422	1.2V	1,152,000	Slow	544-2143-ND◆†	282.00	EP2C70F672I8N
896-FBGA	68,416	622	1.2V	1,152,000	Fast	544-2145-ND◆	384.00	EP2C70F896C6N
896-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1696-ND◆	307.00	EP2C70F896C7N
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1410-ND	281.60	EP2C70F896C8
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1695-ND◆	256.00	EP2C70F896C8N
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-2146-ND†	337.70	EP2C70F896I8
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-2147-ND◆†	307.00	EP2C70F896I8N
CYCLONE III								
144-EQFP	5,136	94	1.2V	414	Medium	544-2428-ND	15.30	EP3C5E144C7
144-EQFP	5,136	94	1.2V	414	Medium	544-2429-ND◆	15.30	EP3C5E144C7N
144-EQFP	5,136	94	1.2V	414	Slow	544-2430-ND	12.80	EP3C5E144C8
144-EQFP	5,136	94	1.2V	414	Slow	544-2431-ND◆	12.80	EP3C5E144C8N
144-EQFP	5,136	94	1.2V	414	Medium	544-2557-ND◆†	19.20	EP3C5E144I7N
164-MBGA	5,136	106	1.2V	414	Medium	544-2559-ND◆	17.90	EP3C5M164C7N
256-FBGA	5,136	182	1.2V	414	Fast	544-2419-ND◆	26.80	EP3C5F256C6N
256-FBGA	5,136	182	1.2V	414	Medium	544-2420-ND	17.90	EP3C5F256C7
256-FBGA	5,136	182	1.2V	414	Medium	544-2421-ND◆	17.90	EP3C5F256C7N
256-FBGA	5,136	182	1.2V	414	Slow	544-2422-ND	14.90	EP3C5F256C8
256-FBGA	5,136	182	1.2V	414	Slow	544-2423-ND◆	14.90	EP3C5F256C8N
256-FGBA	5,136	182	1.2V	414	Medium	544-2558-ND◆†	26.80	EP3C5F256I7N
256-UBGA	5,136	182	1.2V	414	Medium	544-2560-ND◆†	29.60	EP3C5U256I7N
144-EQFP	10,320	94	1.2V	414	Medium	544-2424-ND	23.10	EP3C10E144C7
144-EQFP	10,320	94	1.2V	414	Medium	544-2425-ND◆	23.10	EP3C10E144C7N
144-EQFP	10,320	94	1.2V	414	Slow	544-2426-ND	19.20	EP3C10E144C8
144-EQFP	10,320	94	1.2V	414	Slow	544-2427-ND◆	19.20	EP3C10E144C8N

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

(Continued)

Package	Logic Elements	I/O Pins	Oper-ating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
144-EQFP	10,320	94	1.2V	414	Medium	544-2535-ND◆†	28.80	EP3C10E144I7N
256-FBGA	10,320	182	1.2V	414	Fast	544-2413-ND◆	35.20	EP3C10F256C6N
256-FBGA	10,320	182	1.2V	414	Medium	544-2414-ND	28.10	EP3C10F256C7
256-FBGA	10,320	182	1.2V	414	Medium	544-2415-ND◆	28.10	EP3C10F256C7N
256-FBGA	10,320	182	1.2V	414	Slow	544-2416-ND	23.50	EP3C10F256C8
256-FBGA	10,320	182	1.2V	414	Fast	544-2417-ND◆	23.50	EP3C10F256C8N
256-FBGA	10,320	182	1.2V	414	Medium	544-2536-ND◆†	35.20	EP3C10F256I7N
256-UBGA	10,320	182	1.2V	414	Fast	544-2433-ND◆	38.70	EP3C10U256C6N
256-UBGA	10,320	182	1.2V	414	Medium	544-2435-ND◆	30.90	EP3C10U256C67N
256-UBGA	10,320	182	1.2V	414	Slow	544-2437-ND◆	25.80	EP3C10U256C8N
256-UBGA	10,320	182	1.2V	414	Medium	544-2537-ND◆†	38.70	EP3C10U256I7N
144-EQFP	15,408	84	1.2V	504	Medium	544-2455-ND◆	32.00	EP3C16E144C7N
144-EQFP	15,408	84	1.2V	504	Slow	544-2540-ND	26.70	EP3C16E144C8
144-EQFP	15,408	84	1.2V	504	Slow	544-2456-ND◆	26.70	EP3C16E144C8N
164-MBGA	15,408	92	1.2V	504	Slow	544-2541-ND◆	28.50	EP3C16M164C8N
240-PQFP	15,408	160	1.2V	504	Slow	544-2457-ND	29.10	EP3C16Q240C8
240-PQFP	15,408	160	1.2V	504	Slow	544-2458-ND◆	29.10	EP3C16Q240C8N
256-FBGA	15,408	168	1.2V	504	Fast	544-2459-ND	44.40	EP3C16F256C6
256-FBGA	15,408	168	1.2V	504	Medium	544-2460-ND	35.50	EP3C16F256C7
256-FBGA	15,408	168	1.2V	504	Slow	544-2461-ND	29.60	EP3C16F256C8
256-FBGA	15,408	168	1.2V	504	Fast	544-2462-ND◆	44.40	EP3C16F256C6N
256-FBGA	15,408	168	1.2V	504	Medium	544-2463-ND◆	35.50	EP3C16F256C7N
256-FBGA	15,408	168	1.2V	504	Slow	544-2464-ND◆	29.60	EP3C16F256C8N
256-UBGA	15,408	168	1.2V	504	Medium	544-2465-ND	38.00	EP3C16U256C7
256-UBGA	15,408	168	1.2V	504	Slow	544-2466-ND	31.70	EP3C16U256C8
256-UBGA	15,408	168	1.2V	504	Medium	544-2467-ND◆	38.00	EP3C16U256C7N
256-UBGA	15,408	168	1.2V	504	Slow	544-2468-ND◆	31.70	EP3C16U256C8N
484-FBGA	15,408	346	1.2V	504	Fast	544-2469-ND	49.90	EP3C16F484C6
484-FBGA	15,408	346	1.2V	504	Fast	544-2472-ND◆	49.90	EP3C16F484C6N
484-FBGA	15,408	346	1.2V	504	Medium	544-2470-ND	39.90	EP3C16F484C7
484-FBGA	15,408	346	1.2V	504	Medium	544-2473-ND◆	39.90	EP3C16F484C7N
484-FBGA	15,408	346	1.2V	504	Slow	544-2471-ND	33.20	EP3C16F484C8
484-FBGA	15,408	346	1.2V	504	Slow	544-2474-ND◆	33.20	EP3C16F484C8N
484-UBGA	15,408	346	1.2V	504	Fast	544-2478-ND◆	54.80	EP3C16U484C6N
484-UBGA	15,408	346	1.2V	504	Medium	544-2476-ND	43.90	EP3C16U484C7
484-UBGA	15,408	346	1.2V	504	Medium	544-2479-ND◆	43.90	EP3C16U484C7N
484-UBGA	15,408	346	1.2V	504	Slow	544-2477-ND	36.50	EP3C16U484C8
484-UBGA	15,408	346	1.2V	504	Slow	544-2480-ND◆	36.50	EP3C16U484C8N
144-EQFP	24,624	82	1.2V	594	Slow	544-2075-ND◆	39.50	EP3C25E144C8N
144-EQFP	24,624	82	1.2V	594	Medium	544-2542-ND◆†	59.20	EP3C25E144I7N
240-PQFP	24,624	148	1.2V	594	Slow	544-2076-ND◆	42.70	EP3C25Q240C8N
256-FBGA	24,624	156	1.2V	594	Slow	544-2077-ND◆	44.80	EP3C25F256C8N
256-UBGA	24,624	156	1.2V	594	Slow	544-2545-ND◆	46.90	EP3C25U256C8N
256-FBGA	24,624	156	1.2V	594	Medium	544-2543-ND◆†	67.20	EP3C25F256I7N
256-UBGA	24,624	156	1.2V	594	Medium	544-2546-ND◆†	70.40	EP3C25U256I7N
324-FBGA	24,624	215	1.2V	594	Slow	544-2078-ND◆	49.30	EP3C25F324C8N
324-FBGA	24,624	215	1.2V	594	Medium	544-2544-ND◆†	73.90	EP3C25F324I7N
240-PQFP	39,600	128	1.2V	1,134	Slow	544-2550-ND	78.50	EP3C40Q240C8
240-PQFP	39,600	128	1.2V	1,134	Slow	544-2551-ND◆	78.50	EP3C40Q240C8N
324-FBGA	39,600	195	1.2V	1,134	Fast	544-2484-ND◆	122.00	EP3C40F324C6N
324-FBGA	39,600	195	1.2V	1,134	Medium	544-2482-ND	97.60	EP3C40F324C7
324-FBGA	39,600	195	1.2V	1,134	Slow	544-2483-ND	81.30	EP3C40F324C8
324-FBGA	39,600	195	1.2V	1,134	Slow	544-2486-ND◆	81.30	EP3C40F324C8N
324-FBGA	39,600	195	1.2V	1,134	Medium	544-2547-ND◆†	122.00	EP3C40F324I7N
484-FBGA	39,600	331	1.2V	1,134	Fast	544-2487-ND	129.70	EP3C40F484C6
484-FBGA	39,600	331	1.2V	1,134	Fast	544-2490-ND◆	129.70	EP3C40F484C6N
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2488-ND	103.70	EP3C40F484C7
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2491-ND◆	103.70	EP3C40F484C7N
484-FBGA	39,600	331	1.2V	1,134	Slow	544-2489-ND	86.50	EP3C40F484C8
484-FBGA	39,600	331	1.2V	1,134	Slow	544-2492-ND◆	86.50	EP3C40F484C8N
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2548-ND◆†	129.70	EP3C40F484I7N
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2494-ND	114.30	EP3C40U484C7
484-UBGA	39,600	331	1.2V	1,134	Slow	544-2495-ND	95.20	EP3C40U484C8
484-UBGA	39,600	331	1.2V	1,134	Fast	544-2496-ND◆	142.80	EP3C40U484C6N
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2497-ND◆	114.30	EP3C40U484C7N
484-UBGA	39,600	331	1.2V	1,134	Slow	544-2498-ND◆	95.20	EP3C40U484C8N
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2552-ND◆†	142.80	EP3C40U484I7N
780-FBGA	39,600	535	1.2V	1,134	Fast	544-2499-ND	166.50	EP3C40F780C6
780-FBGA	39,600	535	1.2V	1,134	Fast	544-2502-ND◆	166.50	EP3C40F780C6N
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2500-ND	133.20	EP3C40F780C7
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2503-ND◆	133.20	EP3C40F780C7N
780-FBGA	39,600	535	1.2V	1,134	Slow	544-2501-ND	111.00	EP3C40F780C8
780-FBGA	39,600	535	1.2V	1,134	Slow	544-2504-ND◆	111.00	EP3C40F780C8N
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2549-ND◆†	166.50	EP3C40F780I7N
484-FBGA	55,856	327	1.2V	2,340	Fast	544-2505-ND	212.30	EP3C55F484C6
484-FBGA	55,856	327	1.2V	2,340	Fast	544-2508-ND◆	212.30	EP3C55F484C6N
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2506-ND	169.70	EP3C55F484C7
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2509-ND◆	169.70	EP3C55F484C7N
484-FBGA	55,856	327	1.2V	2,340	Slow	544-2507-ND	141.50	EP3C55F484C8
484-FBGA	55,856	327	1.2V	2,340	Slow	544-2510-ND◆	141.50	EP3C55F484C8N
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2553-ND◆†	212.30	EP3C55F484I7N
484-UBGA	55,856	327	1.2V	2,340	Fast	544-2511-ND◆	218.50	EP3C55U484C6N
484-UBGA	55,856	327	1.2V	2,340	Medium	544-2512-ND◆	174.80	EP3C55U484C7N
484-UBGA	55,856	327	1.2V	2,340	Medium	544-2556-ND◆†	218.50	EP3C55U484I7N
780-FBGA	55,856	377	1.2V	2,340	Fast	544-2517-ND◆	226.40	EP3C55F780C6N
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2515-ND	181.10	EP3C55F780C7
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2518-ND◆	181.10	EP3C55F780C7N
780-FBGA	55,856	377	1.2V	2,340	Slow	544-2519-ND◆	150.90	EP3C55F780C8N
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2554-ND◆†	226.40	EP3C55F780I7N
484-FBGA	81,264	295	1.2V	2,745	Slow	544-2561-ND	223.00	EP3C80F484C8
484-FBGA	81,264	295	1.2V	2,745	Slow	544-2562-ND◆	223.00	EP3C80F484C8N
484-UBGA	81,264	295	1.2V	2,745	Slow	544-2563-ND◆	230.50	EP3C80U484C8
484-UBGA	81,264	295	1.2V	2,745	Slow	544-2564-ND◆	230.50	EP3C80U484C8N
780-FBGA	81,264	429	1.2V	2,745	Fast	544-2520-ND	368.50	EP3C80F780C6
780-FBGA	81,264	429	1.2V	2,745	Fast	544-2523-ND◆	368.50	EP3C80F780C6N
780-FBGA	81,264	429	1.2V	2,745	Medium	544-2521-ND	294.80	EP3C80F780C7
780-FBGA	81,264	429	1.2V	2,745	Medium	544-2524-ND◆	294.80	EP3C80F780C7N
780-FBGA	81,264	429	1.2V	2,745	Slow	544-2525-ND◆	245.70	EP3C80F780C8N
484-FBGA	119,088	283	1.2V	3,888	Medium	544-2390-ND	464.00	EP3C120F484C7
484-FBGA	119,088	283	1.2V	3,888	Medium	544-2528-ND◆	464.00	EP3C120F484C7N
484-FBGA	119,088	283	1.2V	3,888	Slow	544-2388-ND	387.00	EP3C120F484C8
484-FBGA	119,088	283	1.2V	3,888	Slow	544-2389-ND◆	387.00	EP3C120F484C8N
780-FBGA	119,088	531	1.2V	3,888	Medium	544-2393-ND	502.00	EP3C120F780C7
780-FBGA	119,088	283	1.2V	3,888	Medium	544-2394-ND◆	502.00	EP3C120F780C7N
780-FBGA	119,088	531	1.2V	3,888	Medium	544-2539-ND◆†	627.00	EP3C120F780I7N
780-FBGA	119,088	283	1.2V	3,888	Slow	544-2391-ND	418.00	EP3C120F780C8
780-FBGA	119,088	531	1.2V	3,888	Slow	544-2392-ND◆	418.00	EP3C120F780C8N
NEW! CYCLONE III LS NEW!								
484-UBGA	70,208	278	3.465V	3,068	Slow	544-2648-ND◆	292.16	EP3CLS70U484C8N
484-UBGA	100,448	278	3.465V	4,451	Slow	544-2647-ND◆	425.69	EP3CLS100U484C8N
484-FBGA	150,848	210	1.8V	6,137	Fast	544-2612-ND◆†	960.07	EP3CLS150F484I7N
484-FBGA	150,848	210	1.8V	6,137	Fast	544-2613-ND†	1056.08	EP3CLS150F484I7
484-FBGA	150,848	210	1.8V	6,137	Slow	544-2614-ND◆	704.05	EP3CLS150F484C8N
484-FBGA	150,848	210	1.8V	6,137	Slow	544-2615-ND	704.00	EP3CLS150F484C8
484-FBGA	150,848	210	1.8V	6,137	Fast	544-2616-ND◆	800.00	EP3CLS150F484C7N
484-FBGA	150,848	210	1.8V	6,137	Fast	544-2617-ND	880.00	EP3CLS150F484C7
780-FBGA	150,848	413	1.8V	6,137	Fast	544-2606-ND◆†	1056.00	EP3CLS150F780I7N
780-FBGA	150,848	413	1.8V	6,137	Fast	544-2607-ND†	1161.60	EP3CLS150F780I7
780-FBGA	150,848	413	1.8V	6,137	Slow	544-2608-ND◆	774.41	EP3CLS150F780C8N
780-FBGA	150,848	413	1.8V	6,137	Slow	544-2609-ND	774.41	EP3CLS150F780C8
780-FBGA	150,848	413	1.8V	6,137	Fast	544-2610-ND◆	880.07	EP3CLS150F780C7N
780-FBGA	150,848	413	1.8V	6,137	Fast	544-2611-ND	968.07	EP3CLS150F780C7
NEW! CYCLONE IV — RoHS Compliant NEW!								
144-EQFP	6,272	91	1.14V ~ 3.465V	270	Medium	544-2653-ND	17.93	EP4CE6E22I8LN
144-EQFP	6,272	91		270	Fast	544-2654-ND	17.93	EP4CE6E22I7N
256-FBGA	6,272	179		270	Medium	544-2651-ND	22.40	EP4CE6F17I8LN
256-FBGA	6,272	179		270	Fast	544-2652-ND	18.67	EP4CE6F17C7N
144-EQFP	10,320	91		414	Medium	544-2669-ND	33.67	EP4CE10E22I8LN
256-FBGA	10,320	179	1.14V ~ 3.465V	414	Medium	544-2667-ND	40.40	EP4CE10F17I8LN
256-FBGA	10,320	179		414	Fast	544-2668-ND	33.67	EP4CE10F17C7N
144-EQFP	15,408	81		504	Medium	544-2665-ND	38.56	EP4CE15E22I8LN
144-EQFP	15,408	81		504	Fast	544-2666-ND	28.93	EP4CE15E22C7N
256-FBGA	15,408	165		504	Medium	544-2663-ND	43.39	EP4CE15F17I8LN
256-FBGA	15,408	165	1.14V ~ 3.465V	504	Fast	544-2664-ND	36.16	EP4CE15F17C7N
484-FBGA	15,408	343		504	Medium	544-2661-ND	52.07	EP4CE15F23I8LN
484-FBGA	15,408	343		504	Fast	544-2662-ND	43.39	EP4CE15F23C7N
144-EQFP	22,320	79		594	Medium	544-2659-ND	53.28	EP4CE22E22I8LN
144-EQFP	22,320	79		594	Fast	544-2660-ND	44.40	EP4CE22E22C7N
256-FBGA	22,320	153	1.14V ~ 3.465V	594	Medium	544-2657-ND	66.60	EP4CE22F17I8LN
256-FBGA	22,320	153		594	Fast	544-2658-ND	55.50	EP4CE22F17C7N
484-FBGA	28,848	328		594	Medium	544-2655-ND	59.88	EP4CE30F23I8LN
484-FBGA	28,848	328		594	Fast	544-2656-ND	49.90	EP4CE30F23C7N
780-FBGA	28,848	532		594	Medium	544-2688-ND	62.83	EP4CE30F29I8LN
780-FBGA	28,848	532	1.14V ~ 3.465V	594	Fast	544-2689-ND	52.36	EP4CE30F29C7N
484-FBGA	39,600	328		1,134	Medium	544-2686-ND	99.55	EP4CE40F23I8LN
484-FBGA	39,600	328		1,134	Fast	544-2687-ND	82.96	EP4CE40F23C7N
780-FBGA	39,600	532		1,134	Medium	544-2684-ND	116.59	EP4CE40F29I8LN
780-FBGA	39,600	532		1,134	Fast	544-2685-ND	97.16	EP4CE40F29C7N
484-FBGA	55,856	324	1.14V ~ 3.465V	2,040	Medium	544-2682-ND	173.10	EP4CE55F23I8LN
484-FBGA	55,856	324		2,040	Fast	544-2683-ND	144.25	EP4CE55F23C7N
780-FBGA	55,856	374		2,040	Medium	544-2680-ND	184.73	EP4CE55F29I8LN
780-FBGA	55,856	374		2,040	Fast	544-2681-ND	153.94	EP4CE55F29C7N
484-FBGA	75,408	292		2,745	Medium	544-2678-ND	272.95	EP4CE75F23I8LN
484-FBGA	75,408	292	1.14V ~ 3.465V	2,745	Fast	544-2679-ND	227.46	EP4CE75F23C7N
780-FBGA	75,408	426		2,745	Medium	544-2676-ND	300.70	EP4CE75F29I8LN
780-FBGA	75,408	426		2,745	Fast	544-2677-ND	250.58	EP4CE75F29C7N
484-FBGA	114,480	280		3,888	Medium	544-1468-ND	315.52	EP4CE115F23C8N
484-FBGA	114,480	280		3,888	Medium	544-1469-ND	394.40	EP4CE115F23C8LN
484-FBGA	114,480	280	1.14V ~ 3.456V	3,888	Slow	544-1470-ND	315.52	EP4CE115F23C9LN
780-FBGA	114,480	528		3,888	Medium	544-1471-ND	341.36	EP4CE115F29C8N
780-FBGA	114,480	528		3,888	Medium	544-1472-ND	426.70	EP4CE115F29C8LN
780-FBGA	114,480	528		3,888	Slow	544-1473-ND	341.36	EP4CE115F29C9LN
NEW! CYCLONE IV GX — RoHS Compliant NEW!								
148-QFN	14,400	72	1.14V ~ 3.465V	540	Medium	544-1474-ND	23.96	EP4CGX15BN11C8N
169-FBGA	14,400	72		540	Medium	544-1475-ND	25.16	EP4CGX15BF14C8N
484-FBGA	109,424	475		5,490	Fast	544-2675-ND	278.50	EP4CGX110CF23C7N
672-FBGA	109,424	475		5,490	Fast	544-2674-ND	320.30	EP4CGX110DF27C7N
896-FBGA	109,424	475		5,490	Fast	544-2673-ND	368.30	EP4CGX110DF31C7N
484-FBGA	149,760	475	1.14V ~ 3.465V	6,480	Fast	544-2672-ND	369.50	EP4CGX150CF23C7N
672-FBGA	149,760	475		6,480	Fast	544-2671-ND	424.90	EP4CGX150DF27C7N
896-FBGA	149,760	475		6,480	Fast	544-2670-ND	488.60	EP4CGX150DF31C7N
STRATIX								
484-FBGA	10,570	335	1.5V	920,448	Medium	544-2084-ND	313.50	EP1S10F484C6
484-FBGA	10,570	335	1.5V	920,448	Slow	544-1100-ND	225.50	EP1S10F484C7
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1851-ND◆	190.00	EP1S10F672C7N
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1110-ND†	291.50	EP1S10F672I7

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

(Continued)

ALTERA FPGAs *(Cont.)*

Package	Logic Elements	I/O Pins	Oper-ating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1112-ND	247.50	EP1S10F780C7
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1852-ND◆	225.00	EP1S10F780C7N
484-FBGA	18,460	361	1.5V	1,669,248	Medium	544-2086-ND†	775.50	EP1S20F484I6
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1113-ND	357.50	EP1S20F672C7
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1854-ND◆	325.00	EP1S20F672C7N
780-FBGA	18,460	586	1.5V	1,669,248	Fast	544-1114-ND	836.00	EP1S20F780C5
780-FBGA	18,460	586	1.5V	1,669,248	Slow	544-1855-ND◆	380.00	EP1S20F780C7N
780-FBGA	25,660	597	1.5V	1,944,576	Fast	544-1120-ND	1347.50	EP1S25F780C5
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1122-ND	671.00	EP1S25F780C7
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1860-ND◆	610.00	EP1S25F780C7N
1020-FBGA	25,660	706	1.5V	1,944,576	Slow	544-1129-ND	726.00	EP1S25F1020C7
780-FBGA	32,470	597	1.5V	3,317,184	Medium	544-2088-ND	1155.00	EP1S30F780C6
956-BGA	32,470	726	1.5V	3,317,184	Slow	544-1418-ND	973.50	EP1S30B956C7
780-FBGA	41,250	615	1.5V	3,423,744	Fast	544-1782-ND	2095.50	EP1S40F780C5
780-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1429-ND	1045.00	EP1S40F780C7
1020-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1426-ND	1138.50	EP1S40F1020C7
956-BGA	57,120	1,022	1.5V	5,215,104	Slow	544-1432-ND	2216.51	EP1S60B956C7
1020-FBGA	79,040	1,238	1.5V	7,427,520	Slow	544-1440-ND	5478.01	EP1S80F1020C7
STRATIX II								
484-FBGA	15,600	342	1.2V	419,328	Fast	544-1873-ND	330.00	EP2S15F484C3
484-FBGA	15,600	342	1.2V	419,328	Fast	544-1874-ND◆	300.00	EP2S15F484C3N
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1875-ND◆	235.00	EP2S15F484C4N
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1105-ND	209.00	EP2S15F484C5
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1876-ND◆	190.00	EP2S15F484C5N
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1877-ND†	330.00	EP2S15F484I4
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1878-ND◆†	300.00	EP2S15F484I4N
672-FBGA	15,600	366	1.2V	419,328	Fast	544-1879-ND	374.00	EP2S15F672C3
672-FBGA	15,600	366	1.2V	419,328	Fast	544-1880-ND◆	340.00	EP2S15F672C3N
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1124-ND	236.50	EP2S15F672C5
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1881-ND◆	215.00	EP2S15F672C5N
672-FBGA	15,600	366	1.2V	419,328	Medium	544-1882-ND†	374.00	EP2S15F672I4
484-FBGA	33,880	342	1.2V	1,369,728	Fast	544-1890-ND◆	645.00	EP2S30F484C3N
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1106-ND	555.50	EP2S30F484C4
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1107-ND	445.50	EP2S30F484C5
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1892-ND◆	405.00	EP2S30F484C5N
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1893-ND†	709.50	EP2S30F484I4
672-FBGA	33,880	500	1.2V	1,369,728	Fast	544-1896-ND◆	720.00	EP2S30F672C3N
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1125-ND	616.00	EP2S30F672C4
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1897-ND◆	560.00	EP2S30F672C4N
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1126-ND	495.00	EP2S30F672C5
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1898-ND◆	450.00	EP2S30F672C5N
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1899-ND†	792.00	EP2S30F672I4
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1900-ND◆†	720.00	EP2S30F672I4N
484-FBGA	60,440	334	1.2V	2,544,192	Fast	544-1905-ND	1336.50	EP2S60F484C3
484-FBGA	60,440	334	1.2V	2,544,192	Fast	544-1906-ND◆	1215.00	EP2S60F484C3N
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1133-ND	1045.00	EP2S60F484C4
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1907-ND◆	950.00	EP2S60F484C4N
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1134-ND	836.00	EP2S60F484C5
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1908-ND◆	760.00	EP2S60F484C5N
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1909-ND†	1336.50	EP2S60F484I4
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1910-ND◆†	1215.00	EP2S60F484I4N
672-FBGA	60,440	492	1.2V	2,544,192	Fast	544-1911-ND	1457.50	EP2S60F672C3
672-FBGA	60,440	492	1.2V	2,544,192	Fast	544-1912-ND◆	1325.00	EP2S60F672C3N
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1913-ND◆	1035.00	EP2S60F672C4N
672-FBGA	60,440	492	1.2V	2,544,192	Slow	544-1914-ND◆	830.00	EP2S60F672C5N
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1916-ND◆†	1325.00	EP2S60F672I4N
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1901-ND◆	1125.00	EP2S60F1020C4N
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1904-ND◆†	1440.00	EP2S60F1020I4N
1020-FBGA	90,960	758	1.2V	4,520,488	Medium	544-1920-ND◆†	3700.01	EP2S90F1020I4N
1508-FBGA	90,960	902	1.2V	4,520,488	Slow	544-1922-ND◆	2449.99	EP2S90F1508C5N
1508-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1871-ND◆	4360.01	EP2S130F1508C5N
1508-FBGA	179,400	1,170	1.2V	9,383,040	Fast	544-2164-ND	11756.82	EP2S180F1508C3
STRATIX II GX								
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1747-ND	814.00	EP2SGX30CF780C3
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1928-ND◆	760.00	EP2XGX30DF780C3N
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-1927-ND◆	580.00	EP2SGX30CF780C4N
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1753-ND	539.00	EP2SGX30DF780C5
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1754-ND◆	490.00	EP2SGX30DF780C5N
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-2176-ND†	836.00	EP2SGX30DF780I4
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-2177-ND◆†	760.00	EP2SGX30DF780I4N
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1759-ND	1501.50	EP2SGX60DF780C3
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1932-ND◆	1365.00	EP2SGX60DF780C3N
780-FBGA	60,440	364	1.2V	2,544,192	Slow	544-1762-ND◆	870.00	EP2SGX60DF780C5N
1152-FBGA	60,440	534	1.2V	2,544,192	Fast	544-2181-ND◆	1500.00	EP2SGX60EF1152C3N
1152-FBGA	60,440	534	1.2V	2,544,192	Slow	544-2185-ND◆	960.00	EP2SGX60EF1152C5N
1152-FBGA	60,440	534	1.2V	2,544,192	Medium	544-2186-ND†	1650.00	EP2SGX60EF1152I4
1508-FBGA	90,960	650	1.2V	4,520,448	Fast	544-1769-ND	4400.00	EP2SGX90FF1508C3
1508-FBGA	132,540	734	1.2V	6,747,840	Fast	544-1924-ND◆	7075.99	EP2SGX130GF1508C3N
STRATIX III — RoHS Compliant								
780-FBGA	142,500	488	1.1V	7,280	Medium	544-2404-ND	2840.00	EP3SL150F780C3N
780-FBGA	142,500	488	1.1V	7,280	Slow	544-2403-ND	2184.99	EP3SL150F780C4N
780-FBGA	142,500	488	1.1V	7,280	Slow	544-2406-ND	3277.00	EP3SL150F780C4LNES
1152-FBGA	142,500	744	1.1V	7,280	Slow	544-2407-ND	2235.01	EP3SL150F1152C4N
1152-FBGA	142,500	744	1.1V	7,280	Medium	544-2408-ND	2905.00	EP3SL150F1152C3N

Package	Logic Elements	I/O Pins	Oper-ating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
NEW! STRATIX IV — RoHS Compliant NEW!								
1932-FBGA	291,200	781	3.0V	17,248	Fast	544-2639-ND†	14730.03	EP4S100G3F45I2N
1932-FBGA	353,600	781	3.0V	22,564	Fast	544-2638-ND†	16319.98	EP4S100G4F45I2N
1932-FBGA	531,200	781	3.0V	27,376	Fast	544-2637-ND†	18389.99	EP4S100G5F45I2N
1517-HBGA	531,200	654	3.0V	27,376	Fast	544-2636-ND†	17320.00	EP4S100G5H40I2N
780-FBGA	228,000	488	3.0V	17,133	Medium	544-2635-ND	5460.00	EP4SE230F29C3N
780-FBGA	353,600	488	3.0V	22,564	Medium	544-2633-ND	7430.02	EP4SE360H29C3N
1152-FBGA	353,600	744	3.0V	22,564	Medium	544-2634-ND	7430.02	EP4SE360F35C3N
1152-HBGA	531,200	744	3.0V	27,376	Medium	544-2632-ND	8451.67	EP4SE530H35C3N
1517-HBGA	531,200	976	3.0V	27,376	Medium	544-2631-ND	8622.81	EP4SE530H40C3N
1517-HBGA	813,050	976	3.0V	33,294	Medium	544-2650-ND	11900.00	EP4SE820H40C3N
NEW! STRATIX IV GX — RoHS Compliant NEW!								
780-FBGA	72,600	372	3.0V	7,370	Medium	544-2619-ND	1040.00	EP4SGX70DF29C3N
1152-FBGA	72,600	488	3.0V	7,370	Medium	544-2618-ND	1310.00	EP4SGX70HF35C3N
780-FBGA	105,600	372	3.0V	9,564	Medium	544-2630-ND	3120.01	EP4SGX110DF29C3N
1152-FBGA	105,600	488	3.0V	9,564	Medium	544-2629-ND	3390.01	EP4SGX110FF35C3N
780-FBGA	175,750	372	3.0V	13,627	Medium	544-2628-ND	4469.99	EP4SGX180DF29C3N
1152-FBGA	175,750	564	3.0V	13,627	Medium	544-2627-ND	4690.02	EP4SGX180FF35C3N
1152-FBGA	228,000	564	3.0V	17,133	Medium	544-2626-ND	6000.00	EP4SGX230FF35C3N
1152-FBGA	291,200	564	3.0V	17,248	Medium	544-2625-ND	7280.02	EP4SGX290HF35C3N
1517-FBGA	291,200	744	3.0V	17,248	Medium	544-2624-ND	7890.03	EP4SGX290KF40C3N
1152-FBGA	353,600	564	3.0V	22,564	Medium	544-2623-ND	8220.01	EP4SGX360HF35C3N
1517-FBGA	353,600	744	3.0V	22,564	Medium	544-2622-ND	8859.98	EP4SGX360KF40C3N
1152-HBGA	531,200	564	3.0V	27,376	Medium	544-2621-ND	9228.38	EP4SGX530HH35C3N
1517-HBGA	531,200	744	3.0V	27,376	Medium	544-2620-ND	9781.30	EP4SGX530KH40C3N
1760-FBGA	531,200	880	3.0V	27,376	Medium	544-2649-ND	9780.03	EP4SGX530KF43C3N
FLEX 6000								
100-TQFP	880	71	3.3V	—	Slow	544-1950-ND◆	17.00	EPF6010ATC100-3N
100-TQFP	1,320	81	3.3V	—	Medium	544-2247-ND	32.00	EPF6016ATC100-2
100-TQFP	1,320	81	3.3V	—	Slow	544-1274-ND	23.00	EPF6016ATC100-3
144-TQFP	1,320	117	3.3V	—	Medium	544-1275-ND	33.50	EPF6016ATC144-2
144-TQFP	1,320	117	3.3V	—	Slow	544-1276-ND	24.00	EPF6016ATC144-3
144-TQFP	1,320	117	3.3V	—	Slow	544-1952-ND◆	24.00	EPF6016ATC144-3N
144-TQFP	1,320	117	5.0V	—	Medium	544-1281-ND	33.50	EPF6016TC144-2
144-TQFP	1,320	117	5.0V	—	Medium	544-1955-ND◆	33.50	EPF6016TC144-2N
144-TQFP	1,320	117	5.0V	—	Slow	544-1282-ND	23.95	EPF6016TC144-3
144-TQFP	1,320	117	5.0V	—	Slow	544-1956-ND◆	23.95	EPF6016TC144-3N
144-TQFP	1,320	117	5.0V	—	Slow	544-1283-ND†	33.50	EPF6016TI144-3
208-PQFP	1,320	171	3.3V	—	Fast	544-2246-ND	55.50	EPF6016AQC208-1
208-PQFP	1,320	171	3.3V	—	Medium	544-1272-ND	39.00	EPF6016AQC208-2
208-PQFP	1,320	171	3.3V	—	Slow	544-1273-ND	27.50	EPF6016AQC208-3
208-PQFP	1,320	171	3.3V	—	Slow	544-1951-ND◆	27.50	EPF6016AQC208-3N
208-PQFP	1,320	171	5.0V	—	Medium	544-1277-ND	39.00	EPF6016QC208-2
208-PQFP	1,320	171	5.0V	—	Medium	544-1953-ND◆	39.00	EPF6016QC208-2N
208-PQFP	1,320	171	5.0V	—	Slow	544-1278-ND	27.45	EPF6016QC208-3
208-PQFP	1,320	171	5.0V	—	Slow	544-1954-ND◆	27.45	EPF6016QC208-3N
240-RQFP	1,320	199	5.0V	—	Medium	544-1279-ND	42.00	EPF6016QC240-2
240-PQFP	1,320	199	5.0V	—	Slow	544-1280-ND	29.95	EPF6016QC240-3
144-TQFP	1,960	117	3.3V	—	Slow	544-1288-ND	35.95	EPF6024ATC144-3
208-PQFP	1,960	171	3.3V	—	Slow	544-1957-ND◆	40.50	EPF6024AQC208-3N
240-PQFP	1,960	199	3.3V	—	Slow	544-1287-ND	43.00	EPF6024AQC240-3
FLEX 8000								
84-PLCC	208	68	5.0V	—	Slow	544-2251-5-ND◊	13.00	EPF8282ALC84-4
100-TQFP	208	78	5.0V	—	Medium	544-2252-ND	39.25	EPF8282ATC100-2
100-TQFP	208	78	5.0V	—	Slow	544-2253-ND	29.00	EPF8282ATC100-3
100-TQFP	208	78	5.0V	—	Slow	544-2254-ND	18.25	EPF8282ATC100-4
100-TQFP	208	78	5.0V	—	Slow	544-2255-ND◆	18.25	EPF8282ATC100-4N
84-PLCC	336	68	5.0V	—	Slow	544-2257-5-ND◊	25.00	EPF8452ALC84-4
100-TQFP	336	68	5.0V	—	Slow	544-2260-ND	29.50	EPF8452ATC100-4
100-TQFP	336	68	5.0V	—	Slow	544-1783-ND◆	29.50	EPF8452ATC100-4N
160-TQFP	336	120	5.0V	—	Slow	544-2259-ND	34.75	EPF8452AQC160-4
84-PLCC	504	68	5.0V	—	Slow	544-1958-ND	34.75	EPF8636ALC84-4
160-PQFP	504	118	5.0V	—	Slow	544-2262-ND	44.75	EPF8636AQC160-4
208-PQFP	672	152	5.0V	—	Slow	544-2264-ND	52.75	EPF8820AQC208-4
240-PQFP	1,296	181	5.0V	—	Medium	544-2249-ND	124.00	EPF81500AQC240-2
FLEX 10K								
84-PLCC	576	59	5.0V	6,144	Slow	544-2194-5-ND◊	54.00	EPF10K10LC84-3
84-PLCC	576	59	5.0V	6,144	Slow	544-1937-5-ND◊	35.50	EPF10K10LC84-4
84-PLCC	576	59	5.0V	6,144	Slow	544-1938-5-ND◆◊	35.50	EPF10K10LC84-4N
100-TQFP	576	66	3.3V	6,144	Slow	544-2193-ND	32.50	EPF10K10ATC100-3
144-TQFP	576	102	3.3V	6,144	Slow	544-1256-ND	37.00	EPF10K10ATC144-3
144-TQFP	576	102	5.0V	6,144	Slow	544-2199-ND	56.50	EPF10K10TC144-3
144-TQFP	576	102	5.0V	6,144	Slow	544-2200-ND◆	56.50	EPF10K10TC144-3N
144-TQFP	576	102	5.0V	6,144	Slow	544-2201-ND	36.50	EPF10K10TC144-4
144-TQFP	576	102	5.0V	6,144	Slow	544-2203-ND†	51.00	EPF10K10TI144-4
144-TQFP	576	102	5.0V	6,144	Slow	544-2204-ND◆†	51.00	EPF10K10TI144-4N
208-PQFP	576	134	3.3V	6,144	Slow	544-1255-ND	40.00	EPF10K10AQC208-3
208-PQFP	576	134	5.0V	6,144	Slow	544-2196-ND	40.50	EPF10K10QC208-4
144-TQFP	1,152	102	5.0V	12,288	Slow	544-2216-ND	96.00	EPF10K20TC144-3
144-TQFP	1,152	102	5.0V	12,288	Slow	544-2217-ND◆	96.00	EPF10K20TC144-3N
144-TQFP	1,152	102	5.0V	12,288	Slow	544-2218-ND	63.00	EPF10K20TC144-4
144-TQFP	1,152	102	5.0V	12,288	Slow	544-2219-ND◆	63.00	EPF10K20TC144-4N
144-TQFP	1,152	102	5.0V	12,288	Slow	544-2220-ND†	89.50	EPF10K20TI144-4
208-RQFP	1,152	147	5.0V	12,288	Slow	544-2207-ND	117.00	EPF10K20RC208-3
208-RQFP	1,152	147	5.0V	12,288	Slow	544-2209-ND	79.00	EPF10K20RC208-4

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube *(Continued)*

FPGAs *(Cont.)*

Package	Logic Elements	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
208-RQFP	1,152	147	5.0V	12,288	Slow	544-2214-ND†	110.50	EPF10K20RI208-4
240-RQFP	1,152	189	5.0V	12,288	Slow	544-2211-ND	133.00	EPF10K20RC240-3
240-RQFP	1,152	189	5.0V	12,288	Slow	544-2212-ND	89.50	EPF10K20RC240-4
240-RQFP	1,152	189	5.0V	12,288	Slow	544-2213-ND◆	89.50	EPF10K20RC240-4N
240-RQFP	1,152	189	5.0V	12,288	Slow	544-2215-ND†	125.00	EPF10K20RI240-4
144-TQFP	1,728	102	3.3V	12,288	Slow	544-1264-ND	74.00	EPF10K30ATC144-3
144-TQFP	1,728	102	3.3V	12,288	Slow	544-1943-ND◆	74.00	EPF10K30ATC144-3N
144-TQFP	1,728	102	3.3V	12,288	Slow	544-1265-ND†	103.00	EPF10K30ATI144-3
144-TQFP	1,728	102	2.5V	24,576	Slow	544-1267-ND	60.00	EPF10K30ETC144-3
208-PQFP	1,728	147	3.3V	12,288	Fast	544-2222-ND	153.00	EPF10K30AQC208-1
208-PQFP	1,728	147	3.3V	12,288	Slow	544-1258-ND	76.00	EPF10K30AQC208-3
208-PQFP	1,728	147	2.5V	24,576	Fast	544-2224-ND	134.40	EPF10K30EQC208-1
208-PQFP	1,728	147	2.5V	24,576	Medium	544-2225-ND	91.20	EPF10K30EQC208-2
208-PQFP	1,728	147	2.5V	24,576	Slow	544-1266-ND	67.20	EPF10K30EQC208-3
208-RQFP	1,728	147	5.0V	12,288	Slow	544-2227-ND	195.20	EPF10K30RC208-3
208-RQFP	1,728	147	5.0V	12,288	Slow	544-2228-ND◆	195.20	EPF10K30RC208-3N
208-RQFP	1,728	147	5.0V	12,288	Slow	544-2229-ND	129.20	EPF10K30RC208-4
208-RQFP	1,728	147	5.0V	12,288	Slow	544-2233-ND†	180.00	EPF10K30RI208-4
240-PQFP	1,728	189	3.3V	12,288	Fast	544-1259-ND	165.00	EPF10K30AQC240-1
240-PQFP	1,728	189	3.3V	12,288	Slow	544-1261-ND	84.00	EPF10K30AQC240-3
240-PQFP	1,728	189	3.3V	12,228	Slow	544-1941-ND◆	84.00	EPF10K30AQC240-3N
240-PQFP	1,728	189	3.3V	12,288	Slow	544-1262-ND†	117.50	EPF10K30AQI240-3
240-RQFP	1,728	189	5.0V	12,288	Slow	544-2231-ND	208.40	EPF10K30RC240-3
240-RQFP	1,728	189	5.0V	12,288	Slow	544-2232-ND	139.80	EPF10K30RC240-4
208-RQFP	2,304	147	5.0V	16,384	Slow	544-2236-ND	171.00	EPF10K40RC208-4
240-RQFP	2,304	189	5.0V	16,384	Slow	544-2237-ND	182.00	EPF10K40RC240-4
240-PQFP	2,880	189	2.5V	40,960	Fast	544-1268-ND	302.40	EPF10K50EQC240-1
240-PQFP	2,880	189	2.5V	40,960	Medium	544-1269-ND	206.40	EPF10K50EQC240-2
240-PQFP	2,880	189	3.3V	20,480	Slow	544-2242-ND	175.00	EPF10K50VQC240-3
240-RQFP	2,880	189	5.0V	20,480	Slow	544-2238-ND	380.00	EPF10K50RC240-3
240-RQFP	2,880	189	5.0V	20,480	Slow	544-2240-ND†	364.00	EPF10K50RI240-4
356-BGA	2,880	274	3.3V	20,480	Slow	544-1946-ND	201.00	EPF10K50VBC356-3
240-RQFP	3,744	189	5.0V	18,432	Slow	544-2244-ND	361.00	EPF10K70RC240-4
240-RQFP	4,992	189	3.3V	24,576	Fast	544-1248-ND	564.00	EPF10K100ARC240-1
240-RQFP	4,992	189	3.3V	24,576	Slow	544-1251-ND†	388.00	EPF10K100ARI240-3
240-PQFP	4,992	189	2.5V	49,152	Fast	544-1252-ND	432.00	EPF10K100EQC240-1
240-PQFP	4,992	189	2.5V	49,152	Slow	544-1254-ND	216.00	EPF10K100EQC240-3
256-FBGA	4,992	191	2.5V	49,152	Slow	544-2192-ND	220.80	EPF10K100EFC256-3

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

CPLDs

Altera's Max families include the cost-optimized MAX 3000 and the high-performance MAX 7000 CPLD's, each of which offers densities, packages and speed grades to meet a variety of design needs. Altera's MAX CPLD's are non-volatile, single-chip solutions that do not require additional configuration devices. This means that they can be pre-programmed and reprogrammed using in-system programmability (ISP) and will retain the programming algorithm securely, even when the device is powered off.

Package	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
MAX II								
100-FBGA	240	4.7	80	3.3/2.5	4	544-1710-ND◆	8.50	EPM240F100C4N
100-FBGA	240	4.7	80	3.3/2.5	5	544-1709-ND◆	6.10	EPM240F100C5N
100-FBGA	240	4.7	80	3.3/2.5	5	544-1711-ND◆†	8.50	EPM240F100I5N
100-MBGA	240	4.7	80	3.3/2.5	4	544-1707-ND◆	8.30	EPM240M100C4N
100-MBGA	240	4.7	80	3.3/2.5	5	544-1706-ND◆	6.00	EPM240M100C5N
100-MBGA	240	4.7	80	3.3/2.5	5	544-1708-ND◆†	8.30	EPM240M100I5N
100-TQFP	240	4.7	80	3.3/2.5	3	544-1144-ND	13.09	EPM240T100C3
100-TQFP	240	4.7	80	3.3/2.5	3	544-1962-ND◆	11.90	EPM240T100C3N
100-TQFP	240	4.7	80	3.3/2.5	4	544-1145-ND	9.13	EPM240T100C4
100-TQFP	240	4.7	80	3.3/2.5	4	544-1963-ND◆	8.30	EPM240T100C4N
100-TQFP	240	4.7	80	3.3/2.5	5	544-1146-ND	6.60	EPM240T100C5
100-TQFP	240	4.7	80	3.3/2.5	5	544-1964-ND◆	6.00	EPM240T100C5N
100-TQFP	240	4.7	80	3.3/2.5	5	544-1965-ND†	9.13	EPM240T100I5
100-TQFP	240	4.7	80	3.3/2.5	5	544-2276-ND◆†	8.30	EPM240T100I5N
100-FBGA	240	4.7	80	1.8	5	544-1727-ND◆	6.10	EPM240GF100C5N
100-FBGA	240	4.7	80	1.8	5	544-1728-ND◆†	8.50	EPM240GF100I5N
100-MBGA	240	4.7	80	1.8	5	544-1726-ND◆	6.00	EPM240GM100C5N
100-TQFP	240	4.7	80	1.8	3	544-1395-ND◆	11.90	EPM240GT100C3N
100-TQFP	240	4.7	80	1.8	5	544-1149-ND	6.60	EPM240GT100C5
100-TQFP	240	4.7	80	1.8	5	544-1397-ND◆	6.00	EPM240GT100C5N
100-TQFP	240	4.7	80	1.8	5	544-2274-ND†	9.13	EPM240GT100I5
100-TQFP	240	4.7	80	1.8	5	544-2275-ND◆†	8.30	EPM240GT100I5N
100-FBGA	570	5.4	160	3.3/2.5	4	544-1716-ND◆	18.90	EPM570F100C4N
100-FBGA	570	5.4	160	3.3/2.5	5	544-1715-ND◆	13.50	EPM570F100C5N
100-FBGA	570	5.4	160	3.3/2.5	5	544-1717-ND◆†	18.90	EPM570F100I5N
256-FBGA	570	5.4	160	3.3/2.5	3	544-1312-ND◆	43.30	EPM570F256C3N
256-FBGA	570	5.4	160	3.3/2.5	4	544-1295-ND	33.33	EPM570F256C4
256-FBGA	570	5.4	160	3.3/2.5	4	544-1313-ND◆	30.30	EPM570F256C4N
256-FBGA	570	5.4	160	3.3/2.5	5	544-1296-ND	23.87	EPM570F256C5
256-FBGA	570	5.4	160	3.3/2.5	5	544-1314-ND◆	21.70	EPM570F256C5N
256-FBGA	570	5.4	160	3.3/2.5	5	544-1398-ND†	33.33	EPM570F256I5
256-FBGA	570	5.4	160	3.3/2.5	5	544-1399-ND◆†	30.30	EPM570F256I5N
100-MBGA	570	5.4	160	3.3/2.5	5	544-1712-ND◆	13.30	EPM570M100C5N
100-MBGA	570	5.4	160	3.3/2.5	5	544-1714-ND◆†	18.70	EPM570M100I5N
100-TQFP	570	5.4	76	3.3/2.5	3	544-1297-ND	29.37	EPM570T100C3
100-TQFP	570	5.4	76	3.3/2.5	3	544-1315-ND◆	26.70	EPM570T100C3N
100-TQFP	570	5.4	76	3.3/2.5	4	544-1298-ND	20.57	EPM570T100C4
100-TQFP	570	5.4	76	3.3/2.5	4	544-1316-ND◆	18.70	EPM570T100C4N
100-TQFP	570	5.4	76	3.3/2.5	5	544-1299-ND	14.63	EPM570T100C5
100-TQFP	570	5.4	76	3.3/2.5	5	544-1317-ND◆	13.30	EPM570T100C5N
100-TQFP	570	5.4	76	3.3/2.5	5	544-2280-ND†	20.57	EPM570T100I5
100-TQFP	570	5.4	76	3.3/2.5	5	544-2281-ND◆†	18.70	EPM570T100I5N
144-TQFP	570	5.4	116	3.3/2.5	3	544-1300-ND	39.71	EPM570T144C3
144-TQFP	570	5.4	116	3.3/2.5	3	544-1318-ND◆	36.10	EPM570T144C3N
144-TQFP	570	5.4	116	3.3/2.5	4	544-1301-ND	27.83	EPM570T144C4
144-TQFP	570	5.4	116	3.3/2.5	4	544-1319-ND◆	25.30	EPM570T144C4N
144-TQFP	570	5.4	116	3.3/2.5	5	544-1302-ND	19.91	EPM570T144C5
144-TQFP	570	5.4	116	3.3/2.5	5	544-1320-ND◆	18.10	EPM570T144C5N
144-TQFP	570	5.4	116	3.3/2.5	5	544-2282-ND†	27.83	EPM570T144I5
144-TQFP	570	5.4	116	3.3/2.5	5	544-2283-ND◆†	25.30	EPM570T144I5N
256-FBGA	570	5.4	160	1.8	5	544-1402-ND◆	21.70	EPM570GF256C5N
100-MBGA	570	5.4	160	1.8	5	544-1729-ND◆	13.30	EPM570GM100C5N
100-TQFP	570	5.4	76	1.8	3	544-1403-ND◆	26.70	EPM570GT100C3N
100-TQFP	570	5.4	76	1.8	5	544-1405-ND◆	13.30	EPM570GT100C5N
144-TQFP	570	5.4	116	1.8	5	544-1408-ND◆	18.10	EPM570GT144C5N
144-TQFP	1,270	6.2	116	3.3/2.5	3	544-1324-ND	49.94	EPM1270T144C3
144-TQFP	1,270	6.2	116	3.3/2.5	5	544-1143-ND	24.97	EPM1270T144C5
144-TQFP	1,270	6.2	116	3.3/2.5	5	544-1388-ND†	34.98	EPM1270T144I5
144-TQFP	1,270	6.2	212	3.3/2.5	5	544-1652-ND◆†	31.80	EPM1270T144I5N
256-FBGA	1,270	6.2	212	3.3/2.5	3	544-1321-ND	62.04	EPM1270F256C3
256-FBGA	1,270	6.2	212	3.3/2.5	3	544-1338-ND◆	56.40	EPM1270F256C3N
256-FBGA	1,270	6.2	212	3.3/2.5	4	544-1140-ND	43.45	EPM1270F256C4
256-FBGA	1,270	6.2	212	3.3/2.5	4	544-1337-ND◆	39.50	EPM1270F256C4N
256-FBGA	1,270	6.2	212	3.3/2.5	5	544-1141-ND	31.02	EPM1270F256C5
256-FBGA	1,270	6.2	212	3.3/2.5	5	544-1336-ND◆	28.20	EPM1270F256C5N
256-FBGA	1,270	6.2	212	3.3/2.5	5	544-1381-ND†	43.45	EPM1270F256I5
256-FBGA	1,270	6.2	212	3.3/2.5	5	544-1675-ND◆†	39.50	EPM1270F256I5N
256-MBGA	1,270	6.2	212	3.3/2.5	4	544-1722-ND◆	39.50	EPM1270M256C4N
256-MBGA	1,270	6.2	212	3.3/2.5	5	544-1721-ND◆	28.20	EPM1270M256C5N
256-MBGA	1,270	6.2	212	3.3/2.5	5	544-1723-ND◆†	39.50	EPM1270M256I5N
256-TQFP	1,270	6.2	116	3.3/2.5	3	544-1335-ND◆	45.40	EPM1270T144C3N
256-TQFP	1,270	6.2	116	3.3/2.5	4	544-1334-ND◆	31.80	EPM1270T144C4N
256-TQFP	1,270	6.2	116	3.3/2.5	5	544-1333-ND◆	22.70	EPM1270T144C5N
256-FBGA	1,270	6.2	212	1.8	4	544-1383-ND◆	39.50	EPM1270GF256C4N
256-FBGA	1,270	6.2	212	1.8	5	544-1384-ND◆	28.20	EPM1270GF256C5N
256-FBGA	1,270	6.2	212	1.8	5	544-2265-ND†	43.45	EPM1270GF256I5
256-FBGA	1,270	6.2	212	1.8	5	544-2266-ND◆†	39.50	EPM1270GF256I5N
144-TQFP	1,270	6.2	116	1.8	3	544-1385-ND◆	45.40	EPM1270GT144C3N
144-TQFP	1,270	6.2	116	1.8	5	544-1387-ND◆	22.70	EPM1270GT144C5N
256-FBGA	2,210	7.0	204	3.3/2.5	3	544-1341-ND	69.85	EPM2210F256C3
256-FBGA	2,210	7.0	204	3.3/2.5	3	544-1356-ND◆	63.50	EPM2210F256C3N
256-FBGA	2,210	7.0	204	3.3/2.5	4	544-1340-ND	48.84	EPM2210F256C4
256-FBGA	2,210	7.0	204	3.3/2.5	4	544-1355-ND◆	44.40	EPM2210F256C4N
256-FBGA	2,210	7.0	204	3.3/2.5	5	544-1339-ND	34.87	EPM2210F256C5
256-FBGA	2,210	7.0	204	3.3/2.5	5	544-1354-ND◆	31.70	EPM2210F256C5N
256-FBGA	2,210	7.0	204	3.3/2.5	5	544-2267-ND†	48.84	EPM2210F256I5
256-FBGA	2,210	7.0	204	3.3/2.5	5	544-2268-ND◆†	44.40	EPM2210F256I5N
324-FBGA	2,210	7.0	272	3.3/2.5	3	544-1959-ND◆	72.40	EPM2210F324C3N
324-FBGA	2,210	7.0	272	3.3/2.5	4	544-1343-ND	55.66	EPM2210F324C4
324-FBGA	2,210	7.0	272	3.3/2.5	5	544-1961-ND◆	36.20	EPM2210F324C5N
324-FBGA	2,210	7.0	272	3.3/2.5	5	544-2269-ND†	55.66	EPM2210F324I5
324-FBGA	2,210	7.0	272	3.3/2.5	5	544-2270-ND◆†	50.60	EPM2210F324I5N
256-FBGA	2,210	7.0	204	1.8	3	544-1389-ND◆	63.50	EPM2210GF256C3N
256-FBGA	2,210	7.0	204	1.8	5	544-1391-ND◆	31.70	EPM2210GF256C5N
256-FBGA	2,210	7.0	204	1.8	5	544-2271-ND†	48.84	EPM2210GF256I5

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com.

(Continued)

CPLDs *(Cont.)*

Package	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
324-FBFA	2,210	7.0	272	1.8	3	544-1392-ND◆	72.40	EPM2210GF324C3N
MAX IIZ — RoHS Compliant								
68-MBG	240	7.5	54	1.8	6	544-2445-ND	8.30	EPM240ZM68C6N
68-MBG	240	7.5	54	1.8	7	544-2446-ND	6.90	EPM240ZM68C7N
100-MBGA	240	7.5	80	1.8	6	544-2447-ND	8.70	EPM240ZM100C6N
100-MBGA	570	8.7	76	1.8	6	544-2449-ND	19.20	EPM570ZM100C6N
100-MBGA	570	8.7	76	1.8	7	544-2450-ND	16.00	EPM570ZM100C7N
144-MBGA	570	8.7	116	1.8	6	544-2451-ND	23.90	EPM570ZM144C6N
144-MBGA	570	8.7	116	1.8	7	544-2452-ND	19.90	EPM570ZM144C7N
256-MBGA	570	8.7	160	1.8	6	544-2453-ND	31.20	EPM570ZM256C6N
256-MBGA	570	8.7	160	1.8	7	544-2454-ND	26.00	EPM570ZM256C7N
MAX 3000A								
44-PLCC	2	4.5	34	3.3	4	544-1967-ND	1.65	EPM3032ALC44-4
44-PLCC	2	4.5	34	3.3	10	544-1150-5-ND◊	1.20	EPM3032ALC44-10
44-PLCC	2	4.5	34	3.3	10	544-1966-ND◆	1.20	EPM3032ALC44-10N
44-TQFP	2	4.5	34	3.3	4	544-1152-ND	2.40	EPM3032ATC44-4
44-TQFP	2	4.5	34	3.3	4	544-1969-ND◆	2.40	EPM3032ATC44-4N
44-TQFP	2	4.5	34	3.3	7	544-1153-ND	1.45	EPM3032ATC44-7
44-TQFP	2	4.5	34	3.3	7	544-1970-ND◆	1.45	EPM3032ATC44-7N
44-TQFP	2	4.5	34	3.3	10	544-1151-ND	1.40	EPM3032ATC44-10
44-TQFP	2	4.5	34	3.3	10	544-1968-ND◆	1.40	EPM3032ATC44-10N
44-TQFP	2	4.5	34	3.3	10	544-1154-ND†	1.45	EPM3032ATI44-10
44-TQFP	2	4.5	34	3.3	10	544-1971-ND◆†	1.45	EPM3032ATI44-10N
44-PLCC	4	4.5	34	3.3	4	544-1973-ND	4.85	EPM3064ALC44-4
44-PLCC	4	4.5	34	3.3	10	544-1155-5-ND◊	2.10	EPM3064ALC44-10
44-PLCC	4	4.5	34	3.3	10	544-1972-ND◆	2.10	EPM3064ALC44-10N
44-TQFP	4	4.5	34	3.3	4	544-1160-ND	5.35	EPM3064ATC44-4
44-TQFP	4	4.5	34	3.3	4	544-1978-ND◆	5.35	EPM3064ATC44-4N
44-TQFP	4	4.5	34	3.3	7	544-1161-ND	2.90	EPM3064ATC44-7
44-TQFP	4	4.5	34	3.3	7	544-1979-ND◆	2.90	EPM3064ATC44-7N
44-TQFP	4	4.5	34	3.3	10	544-1159-ND	2.55	EPM3064ATC44-10
44-TQFP	4	4.5	34	3.3	10	544-1977-ND◆	2.55	EPM3064ATC44-10N
44-TQFP	4	4.5	34	3.3	10	544-1162-ND†	2.90	EPM3064ATI44-10
44-TQFP	4	4.5	34	3.3	10	544-1980-ND◆†	2.90	EPM3064ATI44-10N
100-TQFP	4	4.5	66	3.3	4	544-1157-ND	5.90	EPM3064ATC100-4
100-TQFP	4	4.5	66	3.3	4	544-1975-ND◆	5.90	EPM3064ATC100-4N
100-TQFP	4	4.5	66	3.3	7	544-1158-ND	3.75	EPM3064ATC100-7
100-TQFP	4	4.5	66	3.3	7	544-1976-ND◆	3.75	EPM3064ATC100-7N
100-TQFP	4	4.5	66	3.3	10	544-1156-ND	3.10	EPM3064ATC100-10
100-TQFP	4	4.5	66	3.3	10	544-1974-ND◆	3.10	EPM3064ATC100-10N
100-TQFP	4	4.5	66	3.3	10	544-2277-ND†	3.75	EPM3064ATI100-10
100-TQFP	4	4.5	66	3.3	10	544-2278-ND◆†	3.75	EPM3064ATI100-10N
100-TQFP	8	5.0	80	3.3	5	544-1164-ND	18.75	EPM3128ATC100-5
100-TQFP	8	5.0	80	3.3	5	544-1982-ND◆	18.75	EPM3128ATC100-5N
100-TQFP	8	5.0	80	3.3	7	544-1165-ND	11.75	EPM3128ATC100-7
100-TQFP	8	5.0	80	3.3	7	544-1983-ND◆	11.75	EPM3128ATC100-7N
100-TQFP	8	5.0	80	3.3	10	544-1163-ND	8.60	EPM3128ATC100-10
100-TQFP	8	5.0	80	3.3	10	544-1981-ND◆	8.60	EPM3128ATC100-10N
100-TQFP	8	5.0	80	3.3	10	544-1169-ND†	11.75	EPM3128ATI100-10
100-TQFP	8	5.0	80	3.3	10	544-1987-ND◆†	11.75	EPM3128ATI100-10N
144-TQFP	8	5.0	96	3.3	5	544-1167-ND	20.00	EPM3128ATC144-5
144-TQFP	8	5.0	96	3.3	5	544-1985-ND◆	20.00	EPM3128ATC144-5N
144-TQFP	8	5.0	96	3.3	7	544-1986-ND◆	12.75	EPM3128ATC144-7N
144-TQFP	8	5.0	96	3.3	10	544-1166-ND	9.20	EPM3128ATC144-10
144-TQFP	8	5.0	96	3.3	10	544-1984-ND◆	9.20	EPM3128ATC144-10N
144-TQFP	16	7.5	116	3.3	7	544-1173-ND	22.75	EPM3256ATC144-7
144-TQFP	16	7.5	116	3.3	7	544-1991-ND◆	22.75	EPM3256ATC144-7N
144-TQFP	16	7.5	116	3.3	10	544-1172-ND	19.25	EPM3256ATC144-10
144-TQFP	16	7.5	116	3.3	10	544-1990-ND◆	19.25	EPM3256ATC144-10N
144-TQFP	16	7.5	116	3.3	10	544-1174-ND†	22.75	EPM3256ATI144-10
208-PQFP	16	7.5	158	3.3	7	544-1171-ND	26.00	EPM3256AQC208-7
208-PQFP	16	7.5	158	3.3	7	544-1989-ND◆	26.00	EPM3256AQC208-7N
208-PQFP	16	7.5	158	3.3	10	544-1170-ND	20.00	EPM3256AQC208-10
208-PQFP	16	7.5	158	3.3	10	544-1988-ND◆	20.00	EPM3256AQC208-10N
208-PQFP	32	7.5	172	3.3	7	544-1176-ND	55.00	EPM3512AQC208-7
208-PQFP	32	7.5	172	3.3	10	544-1175-ND	42.50	EPM3512AQC208-10
208-PQFP	32	7.5	172	3.3	10	544-1994-ND◆	42.50	EPM3512AQC208-10N

Package	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
MAX 7000								
44-PLCC	576	5.0	36	5.0	7	544-1183-5-ND◊	8.40	EPM7032SLC44-7
44-PLCC	576	5.0	36	5.0	7	544-2002-ND◆	8.40	EPM7032SLC44-7N
44-PLCC	576	6.0	36	5.0	6	544-2288-5-ND◊	36.90	EPM7032LC44-6
44-PLCC	576	6.0	36	5.0	12	544-2290-5-ND†◊	19.30	EPM7032LI44-12
44-PLCC	576	6.0	36	5.0	15	544-2291-5-ND†◊	14.70	EPM7032LI44-15
44-PLCC	4	5.0	36	5.0	7	544-1196-5-ND◊	18.60	EPM7064SLC44-7
44-PLCC	4	5.0	36	5.0	10	544-1195-5-ND◊	8.40	EPM7064SLC44-10
44-PLCC	4	5.0	68	5.0	10	544-2012-ND◆	8.40	EPM7064SLC44-10N
44-PLCC	4	6.0	68	5.0	10	544-2297-5-ND◊	18.40	EPM7064LC44-10
44-PLCC	4	6.0	68	5.0	15	544-2298-5-ND◊	10.45	EPM7064LC44-15
44-PLCC	4	5.0	68	5.0	7	544-2016-5-ND†◊	24.00	EPM7064SLI44-7
44-PLCC	4	5.0	68	5.0	7	544-2017-ND◆†	24.00	EPM7064SLI44-7N
44-PLCC	4	6.0	68	5.0	15	544-1784-ND†	16.30	EPM7064LI44-15
44-TQFP	4	5.0	68	5.0	7	544-2022-ND◆	25.00	EPM7064STC44-7N
44-TQFP	4	5.0	36	5.0	10	544-1200-ND	7.50	EPM7064STC44-10
44-TQFP	4	5.0	68	5.0	10	544-2020-ND◆	7.50	EPM7064STC44-10N
44-TQFP	4	5.0	68	5.0	7	544-2023-ND†	32.50	EPM7064STI44-7
44-TQFP	4	5.0	68	5.0	7	544-2024-ND◆†	32.50	EPM7064STI44-7N
68-PLCC	4	6.0	68	5.0	15	544-2302-5-ND◊	20.20	EPM7064LC68-15
68-PLCC	4	6.0	68	5.0	15	544-2307-5-ND†◊	26.60	EPM7064LI68-15
84-PLCC	4	5.0	68	5.0	6	544-2310-5-ND◊	28.00	EPM7064SLC84-6
84-PLCC	4	5.0	68	5.0	10	544-1197-5-ND◊	15.25	EPM7064SLC84-10
84-PLCC	4	6.0	68	5.0	15	544-2305-5-ND◊	24.00	EPM7064LC84-15
84-PLCC	4	5.0	68	5.0	7	544-2018-ND◆†	27.00	EPM7064SLI84-7N
84-PLCC	4	6.0	68	5.0	15	544-2308-5-ND†◊	31.40	EPM7064LI84-15
100-TQFP	4	5.0	68	5.0	10	544-1199-ND	11.20	EPM7064STC100-10
100-TQFP	4	5.0	68	5.0	10	544-2019-ND◆	11.20	EPM7064STC100-10N
84-PLCC	8	7.5	100	5.0	10	544-2317-5-ND◊	64.40	EPM7128ELC84-10
84-PLCC	8	7.5	100	5.0	15	544-2319-5-ND◊	40.60	EPM7128ELC84-15
84-PLCC	8	7.5	100	5.0	20	544-2320-5-ND◊	36.80	EPM7128ELC84-20
84-PLCC	8	6.0	100	5.0	6	544-2035-ND	55.50	EPM7128SLC84-6
84-PLCC	8	6.0	68	5.0	10	544-1207-5-ND◊	30.50	EPM7128SLC84-10
84-PLCC	8	6.0	100	5.0	10	544-2033-5-ND◆◊	30.50	EPM7128SLC84-10N
84-PLCC	8	6.0	68	5.0	15	544-1208-5-ND◊	19.00	EPM7128SLC84-15
84-PLCC	8	6.0	100	5.0	15	544-2034-ND◆	19.00	EPM7128SLC84-15N
84-PLCC	8	6.0	100	5.0	10	544-2036-ND†	39.50	EPM7128SLI84-10
100-PQFP	8	6.0	100	5.0	10	544-2037-ND◆	40.50	EPM7128SQC100-10N
100-PQFP	8	6.0	84	5.0	15	544-1210-ND	24.00	EPM7128SQC100-15
100-PQFP	8	6.0	100	5.0	15	544-2038-ND◆	24.00	EPM7128SQC100-15N
100-PQFP	8	6.0	100	5.0	10	544-2329-ND†	53.00	EPM7128SQI100-10
100-TQFP	8	7.5	100	2.5	4	544-2032-ND	43.20	EPM7128BTC100-4
100-TQFP	8	6.0	100	5.0	10	544-2045-ND◆	44.00	EPM7128STC100-10N
100-TQFP	8	6.0	84‡	5.0	15	544-1212-ND	16.75	EPM7128STC100-15
100-TQFP	8	6.0	100	5.0	15	544-2046-ND◆	16.75	EPM7128STC100-15N
100-TQFP	8	6.0	100	5.0	10	544-2333-ND†	57.50	EPM7128STI100-10
100-TQFP	8	6.0	100	5.0	10	544-2334-ND◆†	57.50	EPM7128STI100-10N
160-PQFP	8	6.0	100	5.0	15	544-2043-ND◆	33.50	EPM7128SQC160-15N
160-PQFP	8	6.0	100	5.0	10	544-2044-ND†	65.50	EPM7128SQI160-10
84-PLCC	10	10.0	104	5.0	20	544-2338-5-ND†◊	88.60	EPM7160ELI84-20
84-PLCC	10	6.0	104	5.0	7	544-2047-5-ND◊	66.00	EPM7160SLC84-7
84-PLCC	10	6.0	64	5.0	10	544-1213-5-ND◊	48.00	EPM7160SLC84-10
84-PLCC	10	6.0	104	5.0	10	544-2339-5-ND◆◊	48.00	EPM7160SLC84-10N
84-PLCC	10	6.0	104	5.0	10	544-2048-ND†	62.00	EPM7160SLI84-10
100-TQFP	10	6.0	84	5.0	10	544-1214-ND	52.50	EPM7160STC100-10
100-TQFP	10	6.0	104	5.0	10	544-2052-ND†	68.00	EPM7160STI100-10
100-TQFP	10	6.0	104	5.0	10	544-2053-ND◆†	68.00	EPM7160STI100-10N
160-PQFP	10	6.0	104	5.0	10	544-2049-ND	60.00	EPM7160SQC160-10
160-PGA	12	12.0	124	5.0	20	544-2341-ND†	321.00	EPM7192EGI160-20
160-PQFP	12	7.5	124	5.0	7	544-2342-ND	108.00	EPM7192SQC160-7
160-PQFP	12	7.5	124	5.0	10	544-1215-ND	81.50	EPM7192SQC160-10
160-PQFP	12	7.5	124	5.0	15	544-1216-ND	52.50	EPM7192SQC160-15
160-PQFP	12	7.5	124	5.0	15	544-2055-ND◆	52.50	EPM7192SQC160-15N
160-PQFP	12	7.5	124	5.0	10	544-2343-ND†	106.00	EPM7192SQI160-10

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube

‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com. *(Continued)*

ALTERA CPLDs *(Cont.)*

Package	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
160-PQFP	12	7.5	124	5.0	10	544-2344-ND◆†	106.00	EPM7192SQI160-10N
256-FBGA	16	12.0	164	2.5	7	544-2355-ND	44.00	EPM7256BFC256-7
192-PGA	16	12.0	164	5.0	20	544-2356-ND†	426.00	EPM7256EGI192-20
208-PQFP	16	7.5	164	5.0	7	544-2065-ND	117.00	EPM7256SQC208-7
208-PQFP	16	7.5	164‡	5.0	10	544-1219-ND	87.50	EPM7256SQC208-10
208-PQFP	16	7.5	164‡	5.0	15	544-1220-ND	70.00	EPM7256SQC208-15
208-PQFP	16	7.5	164	5.0	15	544-2064-ND◆	70.00	EPM7256SQC208-15N
208-RQFP	16	7.5	164	5.0	7	544-2069-ND	180.00	EPM7256SRC208-7
208-RQFP	16	7.5	164	5.0	10	544-2067-ND	144.00	EPM7256SRC208-10
208-RQFP	16	7.5	164	5.0	15	544-2068-ND	86.00	EPM7256SRC208-15
208-RQFP	16	7.5	164	5.0	10	544-2070-ND†	187.00	EPM7256SRI208-10
MAX 7000A								
44-PLCC	2	6.0	36	5.0	7	544-1996-ND	2.60	EPM7032AELC44-7
44-PLCC	2	4.5	36	3.3	10	544-1177-5-ND◊	2.10	EPM7032AELC44-10
44-PLCC	2	6.0	36	5.0	10	544-1995-ND◆	2.10	EPM7032AELC44-10N
44-TQFP	2	4.5	36	3.3	4	544-1179-ND	4.50	EPM7032AETC44-4
44-TQFP	2	6.0	36	5.0	4	544-1998-ND◆	4.50	EPM7032AETC44-4N
44-TQFP	2	4.5	36	3.3	7	544-1180-ND	3.00	EPM7032AETC44-7
44-TQFP	2	6.0	36	5.0	7	544-1999-ND◆	3.00	EPM7032AETC44-7N
44-TQFP	2	4.5	36	3.3	10	544-1178-ND	2.40	EPM7032AETC44-10
44-TQFP	2	6.0	36	5.0	10	544-1997-ND◆	2.40	EPM7032AETC44-10N
44-TQFP	2	4.5	36	3.3	7	544-1181-ND†	3.95	EPM7032AETI44-7
44-TQFP	2	6.0	36	5.0	7	544-2000-ND◆†	3.95	EPM7032AETI44-7N
44-PLCC	4	6.0	68	5.0	10	544-2295-5-ND◊	7.20	EPM7064AELC44-10
44-TQFP	4	4.5	36	3.3	7	544-1193-ND	25.00	EPM7064AETC44-7
44-TQFP	4	4.5	36	3.3	10	544-1191-ND	7.60	EPM7064AETC44-10
44-TQFP	4	6.0	68	5.0	10	544-2008-ND◆	7.60	EPM7064AETC44-10N
44-TQFP	4	4.5	36	3.3	7	544-1194-ND†	32.50	EPM7064AETI44-7
44-TQFP	4	6.0	68	5.0	7	544-2011-ND◆†	32.50	EPM7064AETI44-7N
100-TQFP	4	4.5	68	3.3	10	544-1188-ND	11.30	EPM7064AETC100-10
100-TQFP	4	6.0	68	5.0	10	544-2007-ND◆	11.30	EPM7064AETC100-10N
84-PLCC	8	5.0	68	3.3	10	544-1201-5-ND◊	16.00	EPM7128AELC84-10
100-TQFP	8	7.5	100	5.0	7	544-2029-ND◆	43.50	EPM7128AETC100-7N
100-TQFP	8	5.0	84	3.3	10	544-1202-ND	16.75	EPM7128AETC100-10
100-TQFP	8	7.5	100	5.0	10	544-2027-ND◆	16.75	EPM7128AETC100-10N
100-TQFP	8	5.0	84	3.3	7	544-1206-ND†	79.50	EPM7128AETI100-7
144-TQFP	8	7.5	100	5.0	7	544-2316-ND	52.50	EPM7128AETC144-7
144-TQFP	8	7.5	100	5.0	10	544-2030-ND◆	29.50	EPM7128AETC144-10N
100-TQFP	16	12.0	164	5.0	7	544-2351-ND	80.00	EPM7256AETC100-7
144-TQFP	16	12.0	164	5.0	7	544-2353-ND	87.00	EPM7256AETC144-7
144-TQFP	16	5.5	120	3.3	10	544-1218-ND	59.00	EPM7256AETC144-10
144-TQFP	16	12.0	164	5.0	10	544-2059-ND◆	59.00	EPM7256AETC144-10N
144-TQFP	16	12.0	164	5.0	7	544-2062-ND†	152.00	EPM7256AETI144-7
208-PQFP	16	12.0	164	5.0	10	544-2349-ND	71.00	EPM7256AEQC208-10
256-FBGA	16	12.0	164	5.0	7	544-2348-ND†	200.00	EPM7256AEFI256-7
144-TQFP	32	7.5	120	5.0	7	544-2360-ND	270.00	EPM7512AETC144-7
144-TQFP	32	7.5	120	3.3	12	544-2074-ND	120.00	EPM7512AETC144-12
208-PQFP	32	7.5	164	5.0	7	544-2359-ND	302.00	EPM7512AEQC208-7
MAX 9000								
84-PLCC	20	10.0	60	5.0	15	544-2362-5-ND◊	123.00	EPM9320LC84-15
240-RQFP	35	10.0	191	5.0	10	544-2365-ND†	336.00	EPM9560ARI240-10
240-RQFP	35	10.0	191	5.0	15	544-2366-ND	364.00	EPM9560RC240-15

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com.

Configuration Devices

During device operation, Altera® FPGA's store configuration data in SRAM cells. Because SRAM memory is volatile, the SRAM cells must be loaded with configuration data each time the device powers up. You can configure the devices using data stored in an Altera configuration device. Altera configuration devices are offered in different densities and provide a variety of features.

Memory Size (BIT)	On-Chip Decompression Support	ISP Support	Reprogrammable	Voltage (V)	Package	Digi-Key Part No.	Price Each	Altera Part No.
65K	No	No	No	5.0	8-DIP	544-1368-5-ND◊	7.70	EPC1064PI8
212K	No	No	No	5.0	8-DIP	544-1370-5-ND◊	13.25	EPC1213PI8
212K	No	No	No	5.0/3.3	20-PLCC	544-2188-5-ND◊	10.75	EPC1213LC20
400K	No	No	No	5.0/3.3	8-DIP	544-1224-5-ND◊	3.50	EPC1441PC8
400K	No	No	No	5.0/3.3	8-DIP	544-1225-5-ND◊	4.90	EPC1441PI8
400K	No	No	No	5.0/3.3	20-PLCC	544-1223-5-ND◊	3.50	EPC1441LC20
440K	No	No	No	5.0/3.3	20-PLCC	544-1371-5-ND◆◊	3.50	EPC1441LC20N
1M	No	No	No	5.0/3.3	8-DIP	544-1232-5-ND◊	15.50	EPC1PI8
1M	No	No	No	5.0/3.3	8-DIP	544-1375-5-ND◆◊	15.50	EPC1PI8N
1M	No	No	No	5.0/3.3	8-DIP	544-1231-5-ND◊	11.00	EPC1PC8
1M	No	No	Yes	3.3	8-SOIC	544-1241-5-ND◆◊	3.50	EPCS1SI8
1M	No	No	Yes	3.3	8-SOIC	544-1242-5-ND◆◊	3.50	EPCS1SI8N
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1233-5-ND◊	33.50	EPC2LC20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1234-5-ND◊	45.00	EPC2LI20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1650-ND◆	45.00	EPC2LI20N
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1376-5-ND◆◊	33.50	EPC2LC20N
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1235-ND	37.50	EPC2TC32
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1236-ND	52.50	EPC2TI32
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1648-ND◆	52.50	EPC2TI32N
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1377-ND◆	37.50	EPC2TC32N
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1237-ND	41.00	EPC4QC100
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1378-ND◆	41.00	EPC4QC100N
4M	Yes	Yes	Yes	3.3	100-PQFP	544-2189-ND	55.50	EPC4QI100
4M	Yes	Yes	Yes	3.3	100-PQFP	544-2190-ND◆	55.50	EPC4QI100N
4M	No	Yes	Yes	3.3	8-SOIC	544-1243-5-ND◊	13.00	EPCS4SI8
4M	No	Yes	Yes	3.3	8-SOIC	544-1379-5-ND◆◊	13.00	EPCS4SI8N
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1238-ND	45.00	EPC8QC100
8M	Yes	Yes	No	3.3	100-PQFP	544-1683-ND◆	45.00	EPC8QC100N
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1239-ND	61.00	EPC8QI100
16M	No	No	Yes	3.3	16-SOIC	544-1240-5-ND◆◊	16.25	EPCS16SI16N
16M	Yes	Yes	Yes	3.3	88-UBGA	544-1228-ND	87.00	EPC16UC88
16M	Yes	No	No	3.3	88-UBGA	544-1374-ND◆	87.00	EPC16UC88N
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1226-ND	59.00	EPC16QC100
16M	Yes	Yes	No	3.3	100-PQFP	544-1681-ND◆	59.00	EPC16QC100N
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1227-ND	80.00	EPC16QI100
16M	Yes	Yes	No	3.3	100-PQFP	544-1684-ND◆	80.00	EPC16QI100N
16M	No	Yes	Yes	3.3	8-SOIC	544-2567-5-ND◆◊	14.75	EPCS16SI8N
64M	No	Yes	Yes	3.3	16-SOIC	544-1380-5-ND◆◊	32.50	EPCS64SI16N

◆ ***RoHS Compliant*** ◊ Tube

USB-Blaster™ Programming Cable

The USB-Blaster download cable interfaces to a standard USB PC port. The cable is a hardware interface to either a standard PC or UNIX workstation RS-232 port or a USB port. It provides configuration data to Excalibur™, Mercury™, APEX™ II, APEX 20K, ACEX® 1K, FLEX® 10K, FLEX 8000 and FLEX 6000 devices and programming data to MAX® 9000, MAX 7000S, MAX 3000A, MAX 7000B and MAX 7000A devices.

544-1775-ND (PL-USB-BLASTER-RCN) **$300.00**

ByteBlaster™ Programming Cable

The ByteBlaster cable can program and configure 1.8V, 2.5V, 3.3V and 5.0V devices. The cable also provides support for active serial programming of serial configuration devices. The cable drives configuration data from the PC to Stratix®, Stratix GX, Cyclone®, APEX™ II, APEX 20K (including APEX 20K, APEX 20KE, and APEX 20KC), ACEX® 1K, Mercury™, Excalibur™, FLEX® 10K (including FLEX 10KA and FLEX 10KE), FLEX 8000, and FLEX 6000 devices, as well as programming data to MAX® 9000, MAX 7000S, MAX 7000AE, MAX 7000B, MAX 5000A devices and EPC/EPCS configuration devices.

544-1289-ND Parallel-Port Cable (PL-BYTEBLASTER2N) **$150.00**

NEW! EthernetBlaster™ Cable

The EthernetBlaster communications cable connects to a standard Ethernet network port with an RJ-45 connector. This cable communicates with client systems using the TCP/IP protocol and supports both static and dynamic IP addressing. It can be plugged into an existing 10/100 Base-T Ethernet network to communicate with clients remotely or interfaced directly via a standard 10/100 Base-T Ethernet port using a crossover cable. Because design changes are downloaded directly to the device, prototyping is easy and you can accomplish multiple design iterations in quick succession. Harnessing the power of an Ethernet network, multiple users can remotely access Altera devices, bringing a new level of productivity to prototyping and debugging.

Supported Devices: • Stratix® series FPGAs • Cyclone® series FPGAs • MAX® series CPLDs • APEX™ series FPGAs • ACEX® 1K FPGAs • Mercury™ FPGAs • FLEX® series FPGAs • Excalibur™ FPGAs • You can perform in-system programming of the following devices: • Advanced configuration devices, including EPC2, EPC4, EPC8 and EPC16 devices • Serial configuration devices, including EPCS1, EPCS4, EPCS16, EPCS64 and EPCS128 devices

Power Requirements: The EthernetBlaster communications cable requires between 1.5V and 5.0V from the target circuit board and 12VDC (0.875A) input power for the EthernetBlaster Vcc supply (12VDC wall transformer is supplied)

Software Requirements: • Windows NT 4.0 • Windows 2000 • Windows XP • Solaris 2.6 • Solaris 2.7/7 • Solaris 8/9 • Red Hat Linux version 7.3 • Red Hat Linux version 8.0 • Red Hat Enterprise Linux WS 3.0 • HP-UX version 11.0

544-2646-ND Cable Ethernet Programming (PL-ETH2-BLASTER)........ **$450.00**

Altera® Subscription Program

The Altera Subscription Program offers the most recent versions of the Quartus® II and MAX+PLUS® II software which extends over a duration of a 12 month period. With a valid subscription, the program provides support for the latest programmable logic devices, new software features, performance enhancements, and up-to-date online and printed documentation.

544-1247-ND	FIXEDPC (SW-QUARTUS-SE-FIX)	**$2995.01**
544-2591-ND	(RENEWAL)	**$2495.00**
544-2691-ND	***NEW!*** FIXED PC REPLACEMENT (SWR-QUARTUS-SE-FIX)	**$2495.00**
544-2692-ND	***NEW!*** FLOATALL REPLACEMENT (SW-QUARTUS-SE-FLT)	**$2995.01**
544-2693-ND	***NEW!*** ADD-FLOATALL REPLACEMENT (SW-QUARTUS-SE-ADD)	**$3994.99**
544-2694-ND	***NEW!*** FLOATALL RENEWAL REPLACEMENT (SWR-QUARTUS-SE-FLT)	**$2495.00**

ModelSim® -Altera® Software

Shorten your FPGA verification time by using the ModelSim® -Altera® software in your FPGA Design Flow. ModelSim-Altera software supports behavioral and gate-level simulation, including VHDL or Verilog testbenches, for all Altera devices.

544-2590-ND (SW-MODELSIM-AE) **$945.00**

Max® II Development Kit

Altera's MAX II Development Kit 1270 comes with a complete design environment. The kit enables users to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware. It includes all software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

Kit Includes: MAX II Development Board: • MAX II EPM1270F256C5 CPLD • USB media access control (MAC) with physical layer (PHY) and Type B connector • PCI Edge connector (3.3V and 5V tolerant) • LCD module • SRAM (128K x 8 bit) • Temperature gauge with serial peripheral interface (SPI) • Onboard power meter • Active I/O sense circuitry • One 3.3V-tolerant expansion/prototype header (41 available user I/O pins) • JTAG connectors • Four user-defined push-button switches • Four user-defined LEDs **Quartus® II Web Edition software; Cables and Accessories:** • USB-Blaster download cable • Type A-B USB cable (3 feet) **Reference designs and demos for MAX II including:** • USB reference design • PCI reference design • Low power demo • Real-time in-system programmability (ISP) demo

544-2380-ND (DK-MAXII-1270N)........ **$150.00**

NEW! Arria® II GX FPGA Development Kit

The Arria II GX FPGA Development Kit delivers a complete system-level design environment that includes both the hardware and software needed to immediately begin developing FPGA designs.

Kit Includes: Arria II GX EP2AGX125EF35 FPGA in the 1152-pin Fine Pitch BGA package: • 124,100 logic elements (LEs) • 49,640 adaptive logic modules (ALMs) • 8,121Kb on-chip memory • 12 high-speed transceivers • 6 phase-locked loops (PLLs) • 576 18x18 multipliers • 0.9V core power **Max® II EPM2210F256 CPLD in the 256-pin Fine Pitch BGA Package:** • 2.5V core power **On-board Ports:** • One HSMC expansion port • One gigabit Ethernet port **On-board Memory:** • 128-MB 16-bit DDR3 device • 1-GB 64-bit DDR2 SODIMM • 2-MB SSRAM • 64-MB flash **FPGA Configuration Circuitry:** • MAX II CPLD and flash fast passive parallel configuration • On-board USB-Blaster™ circuitry using the Quartus II Programmer • On-board clocking circuitry: • Four on-board oscillators: 100 MHz, Programmable oscillator, default frequency 125 MHz, Programmable oscillator, default frequency 100 MHz, 155.52 MHz • SMA connectors for external LVPECL clock input • SMA connector for clock output **General User I/O:** • LEDs/displays: • Four user LEDs • Two-line character LCD display • One configuration-done LED • One HSMC interface transmit/receive LED (Tx/Rx) • Three PCI Express LEDs • Five Ethernet LEDs **Push-buttons:** • One user reset (CPU reset) • One MAX II CPLD reset • One load image (program FPGA from flash) • One image select (select image to load from flash) • Two general user push-buttons **DIP Switches:** • Four user DIP switches • Eight MAX II device control DIP switches **Power Supply:** • 14V ~ 20V DC input • PCI Express edge connector power • On-board power measurement circuitry **Mechanical:** • PCI Express full-length standard-height (8.48" x 4.376") • PCI Express chassis or bench-top operation **Arria II GX FPGA Development Kit CD-ROM Design Examples:** • Board Update Portal, featuring the Nios® II processor web server and remote system update • Board test system • Complete documentation **Altera's Complete Design Suite DVD:** • Quartus II Software Development Kit Edition, includes support for Arria II GX FPGAs • Includes one-year license • Nios II Embedded Design Suite • MegaCore® IP Library includes PCI Express, Triple Speed Ethernet, SDI, and DDR3 High-Performance Controller IP cores: IP evaluation available through OpenCore® Plus **Power Adaptor and Cables**

544-2600-ND (DK-DEV-2AGX125N) **$1495.00**

NEW! Arria® II GX FPGA Development Kit, 6G Edition

The Arria II GX FPGA development board, 6G Edition provides a hardware platform for developing and prototyping low-power, high-performance, and logic-intensive designs. The board provides a wide range of peripherals and memory interfaces to facilitate the development of the Arria II GX FPGA designs.

Board Features: Arria II GX EP2AGX260FF35 FPGA in the 1152-pin FineLine BGA (FBGA) Package: • 244,188 LEs • 102,600 adaptive logic modules (ALMs) • 11,756Kbit on-die memory • 16 high-speed transceivers • 6 phase locked loops (PLLs) • 736 18x18 multipliers • 0.9V core power **MAX® II EPM2210F256 CPLD in the 256-pin FBGA Package:** • 2.5V core power **FPGA Configuration Circuitry:** • MAX II CPLD EPM2210 System Controller and flash fast passive parallel (FPP) configuration • On-board USB-Blaster™ for use with the Quartus® II Programmer **On-Board Ports:** • Two HSMC expansion port • One gigabit Ethernet port **On-Board Memory:** • 128Mbyte 16-bit DDR3 memory • 1Gbyte 64-bit DDR2 small outline DIMM (SODIMM) • 2Mbyte Synchronous Static Random Access Memory (SSRAM) • 64Mbyte flash memory **On-Board Clocking Circuitry:** • Five on-board oscillator (50MHz oscillator, 100MHz oscillator, 155.52MHz oscillator, Programmable oscillator with a default frequency of 125MHz, Programmable oscillator with a default frequency of 100MHz) • SMA connectors for external LVPECL clock input • SMA connector for clock output

General User I/O: • LEDs and displays (Four user LEDs, Two-line character LCD display, Three configuration select LED, One configuration done LED, Two HSMC interface transmit/receive LED (TX/RX), Three PCI Express LEDs, Five Ethernet LEDs) • Push-Button switches (One CPU reset push-button switch, One Max II CPLD EPM2210 System Controller configuration reset push-button switch, One load image push-button switch to program the FPGA from flash memory, One image select push-button switch select image to load from flash memory, Two general user push-button switches) • DIP switches (Four user DIP switches, Eight MAX II control DIP switches) • Power supply (14V ~ 20VDC input, PCI Express edge connector power, On-board power measurement circuitry) • Mechanical (PCI Express full-length standard-height (8.48" x 4.376"), PCI Express chassis or bench-top operation)

544-2696-ND (DK-DEV-2AGX260N) **$3195.27**

Cyclone® II FPGA Starter Development Kit

The low-cost Cyclone II FPGA Starter Development Kit is ideal if you want to evaluate Altera's high performance, low-power, 90nm Technology. Several reference designs and demonstrations included in the kit, make for a quick "out-of-the-box" evaluation experience.

Kit Includes:

• **Cyclone II Starter Development Board:** • Cyclone II EP2C20F484C7N device **Configuration:** • USB-Blaster™ download cable (embedded) • EPCS4 serial configuration device **Memory:** • 8Mbyte SDRAM • 512Kb SRAM • 1 to 4Mbyte flash **Clocking:** • SMA connector (external clock input) **Audio:** • 24-bit coder/decoder (CODEC) **Switches and Indicators:** • Ten switch and four push buttons • Four 7-segment displays • Ten red and eight green LEDs **Connectors:** • VGA, RS-232, and PS/2 ports • Two 40-pin expansion ports • SD/MMC socket **Cables/Power:** • USB cable • External power supply (optional, but recommended when using the kit with additional accessory daughtercards) **Cyclone II FPGA Starter Development Kit CD-ROM:** • Reference designs and demonstrations targets for the Cyclone II FPGA Starter Development Board • User manual • Reference guide • Quartus® II Web Edition CD-ROM • Nios II® Web Edition CD-ROM

544-1736-ND (DK-CYCII-2C20N) **$199.00**

Cyclone® III FPGA Starter Development Kit

The economical Cyclone III FPGA Starter Kit is easy to use and an ideal introduction for users who have never designed with FPGAs before. The Cyclone III FPGAs are the first low-cost FPGA family available in the marketplace harnessing the low-power advantages of 65nm process technology.

Kit Includes:

Cyclone III Starter Board: • Cyclone III EP3C25F324 FPGA **Configuration:** • Embedded USB-Blaster™ circuitry allowing download of FPGA configuration files via the users USB port **Power and Analog Devices from Linear Technology:** • Switching power supply LTM4603EV-1 • Switching and step-down regulators LTC3413, LT1959 **Memory:** • 256Mbit DDR SDRAM • 1-Mbyte Synchronous SRAM • 16Mbyte Intel® P30/P33 flash **Clocking:** • 50MHz on-board oscillator **Switches and Indicators:** • Six pushbutton total, 4 user controlled • Seven LEDs total, 4 user controlled **Connectors:** • High-Speed Mezzanine Connector • USB type B **Cables and Power:** • USB cable • External power supply • Cyclone III FPGA Starter Kit CD-ROM: • Example designs targeting the Cyclone III FPGA Starter Board • **Complete Documentation:** • User guide • Reference manual • Board schematic and layout • Bill of Materials • Product and partner information

544-2370-ND (DK-START-3C25N) **$199.00**

Cyclone® III Edition DSP Development Kit

The DSP Development Kit, Cyclone III Edition delivers a complete digital signal processing (DSP) development environment for design engineers. The kit facilitates the entire design process from design conception through hardware implementation. The DSP Development Kit, Cyclone III Edition includes the Cyclone III development board, the Data Conversion high-speed mezzanine card (HSMC), the DSP Builder development tool, Quartus® II development software, MATLAB/Simulink evaluation software, evaluation intellectual property (IP) cores, design examples, power supplies, cables, and documentation.

Kit Includes:

Cyclone III Development Board: • Cyclone III EP3C120F780 FPGA • 128 x 64 graphics LCD • 2-line x 16-character LCD • Buttons, dip-switches, LEDs, 7-segment display, speaker header **Memory:** • 256 Mbytes of dual-channel DDR2 SDRAM with ECC • 8 Mbytes of synchronous SRAM • 64 Mbytes of flash **Components and Interfaces:** • 10/100/1000 Ethernet (RGMII) • USB 2.0 (Type B) • Two high-speed mezzanine (HSMC) connectors **Data Conversion HSMC:** • Dual 14-bit, 150-MSPS A/D converter • Dual 14-bit, 250-MSPS D/A converter • Audio in/out/mic **Cyclone III FPGA Development Kit, CD-ROM:** • Design examples for the Cyclone III FPGA development board • Complete documentation includes: User guide, Reference manual, Board schematic and layout, Bill of Materials, and Product and partner information **MATLAB/Simulink Evaluation Software Altera® Complete Design Suite DVD:** • Quartus II design software includes Subscription Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • ModelSim®-Altera software includes Altera Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • MegaCore® IP Library including Nios II processor - OpenCore® Plus evaluation • Nios II Embedded Design Suite, Evaluation Edition (free) • DSP Builder • Video demos of Quartus II software and the Nios II processor • System reference designs and labs includes DSP Builder filtering design and Nios II processor reference designs

544-2566-ND (DK-DSP-3C120N) **$1595.00**

Cyclone® III FPGA Development Kit

Altera's Cylone III FPGA Development Kit combines the largest density low-cost, low-power FPGA available with a robust set of memories and user interfaces. The kit dramatically reduces the design and verification portion of your project, whether it's for automotive, consumer, wireless communications, video processing, or another high-volume, cost sensitive application.

Kit Includes:
Cylone III Development Board: • Cyclone III EP3C120F780 FPGA • Embedded USB-Blaster™ circuitry (includes an Altera MAX II CPLD) allowing download of FPGA configuration files via the flash device or the host computer **Memory:** • 256Mbytes of dual-channel DDR2 SDRAM with ECC • 8Mbytes of synchronous SRAM • 64Mbytes of flash **Communication Ports:** • 10/100/1000 Ethernet • USB 2.0 **Clocking:** • 50MHz and 125MHz on board oscillators • SMA Inputs/outputs • Input/outputs for the two HSMCs • Various Buttons, Switches, and Indicators **Display:** • 128 x 64 graphics LCD • 2-line x 16-character LCD **Connectors:** • Two HSMCs • USB type B **Debug Tools:** Three HSMC debug cards (tow loop-back and a debug header) **Cables and Power/Analog:** • 14V ~ 20V DC input • On-board power measurement circuitry • 19.8W per HSMC interface • Power cord with plug adapters (US, UK, EU) **Cyclone III FPGA Development Kit, CD-ROM:** • Design examples for the Cyclone III FPGA development board • Complete documentation includes user guide, reference manual, board schematic and layout, bill of materials and product and partner information
Altera Complete Design Suite DVD: • Quartus II Design software includes Subscription Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • ModelSim®-Altera software includes Altera Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • MegaCore® IP Library - Opencore Plus evaluation includes Nios II® processor (evaluation license) • Nios II Embedded Design Suite, Evaluation Edition (no charge) • DSP Builder (optional feature, available for purchase) • Video demos of Quartus II software and Nios II embedded processor

544-2444-ND (DK-DEV-3C120N) **$995.00**

NEW! Cyclone® III LS FPGA Development Kit

Altera's Cyclone III LS FPGA Development Kit combines the largest density, low-power FPGA available with a complete suite of security features implemented at the silicon, software, and intellectual property (IP) levels. These security features provide passive and active protection of your IP from tampering, reverse engineering, and counterfeiting.

Kit Contents:
Cyclone III LS FPGA Development Board: • Cyclone III LS EP3CLS200F780C7N device • Embedded USB-Blaster circuitry (includes an Altera® MAX® IIZ CPLD) allowing download of FPGA configuration files via the flash device or the host computer **Memory:** • Two 512MB of DDR2 SDRAMs • 2MB of synchronous SRAM from ISSI • 64MB of Flash from Intel **Communications Port:** • 10/100/1000 Ethernet **Power and Analog Devices from Linear Technology:** • Switching and step-down regulators LTC3853, LTC3418, and LTC3414 • Analog-to-digital converter LTC2418 • LDO regulators LT1761 and LT3203 **Clocking:** • 25MHz, 50MHz and 125MHz on-board oscillators • SMA inputs/outputs • Inputs/outputs for the two HSMC connectors • Various buttons, switches, and LED indicators **Display:** • 2-line x 16 character LCD **Connectors:** • Two HMSC connectors • USB type B **Debug Tools:** • Three HSMC debug cards (two loop-back and a debug header) **Cables and Power/Analog:** • Ethernet • USB • 14V ~ 20V DC input • On-board power measurement circuitry • 19.8W per HMSC interface • AC power cord with plug adapters (US, UK, EU) **Cyclone III LS FPGA Development Kit, CD ROM: Design examples:** • Board update portal design • Board test system design • MAX II CPLD system controller including an anti-tamper design **Complete Documentation:** • Dear customer letter • Quick start guide • User guide • Reference manual • Board schematic and layout • Bill of materials • Product and partner information • Quartus® II software design files **Altera Complete Design Suite DVD: Quartus II design software:** • Development Kit Edition (includes one-year license) • Subscription Edition (optional, available for purchase) **ModelSim®-Altera software:** • Altera Edition (optional feature, available for purchase) **MegaCore® IP Library—OpenCore Plus evaluation:** • Includes Nios II processor (evaluation license) **• Nios II Embedded Design Suite, Evaluation Edition (no charge) • DSP Builder (optional feature, available for purchase) • Video demos of Quartus II software and Nios II embedded processor**

544-2601-ND (DK-DEV-3CLS200N) **$3495.00**

Embedded Systems Cyclone® III FPGA Development Kit

The Embedded Systems Development Kit, Cyclone III FPGA Edition is a complete development platform for prototyping embedded systems on Altera's low-cost, low-power FPGA family.

Kit Includes:
Cyclone III Development Board: • EP3C120F780 FPGA • Embedded USB-Blaster™ circuitry (including an Altera MAX® II CPLD) allowing download of FPGA configuration files via the flash device or the host computer **Memory:** • 256Mbytes of dual-channel DDR2 SDRAM with ECC • 8Mbytes of pseudo SRAM • 64Mbytes of flash **Communication Ports:** • 10/100/1000 Ethernet • USB 2.0 **Power and Analog Devices from Linear Technology:** • Switching power supply LTM4601 • Switching and step-down regulators LT1931, LT3481, and LTC3418 • Analog-to-digital converter LTC1865 • LDO regulators LT1963 and LT1761 **Clocking:** • 50MHz and 125MHz on-board oscillators • SMA inputs/outputs • Inputs/outputs for the two HSMCs • Various buttons, switches, and indicators **Display:** • 128 x 64 graphics LCD • 2-line x 16-character LCD **Connectors:** • Two HSMCs • USB type B **Debug Tools:** • Three HSMC debug cards (two loop-back and a debug header) **Cables and Power/Analog:** • 14V ~ 20V DC input • On-board power measurement circuitry • 19.8W per HSMC interface • Power cord with plug adapters (US, UK, EU)

544-2589-ND (DK-EMB-3C120N) **$1595.00**

Nios® II Embedded Evaluation Kit, Cyclone® III Edition

The Nios II Embedded Evaluation Kit, Cyclone III Edition, is a first class, low cost evaluation platform for embedded developers. Software developers, especially those new to FPGA design, can install and evaluate the Nios II Embedded Design Suite (EDS) - a comprehensive software development suite for embedded applications - all at no cost.
The included software tutorials and examples come with full source code showing applications such as Picture Viewer, Web Server, C-to-Hardware (C2H) acceleration and graphics.

Kit Includes:
Cyclone III Starter Board: • Cyclone III EP3C25F324 FPGA • Configuration: Embedded USB-Blaster™ circuitry (includes an Altera EPM3128A CPLD) allowing download of FPGA configuration files via the user's USB port **Power and Analog Devices from Linear Technology:** • Switching power supply LTM4603EV-1 • Switching and step-down regulators LTC3413, LT1959 **Memory:** • 32Mbytes of DDR SDRAM • 1Mbyte of Synchronous SRAM • 16Mbytes of Intel P30/P33 flash **Clocking:** 50MHz on-board oscillator • Switches and indicators: • Six push buttons total, four user controlled • Seven LEDs total, four user controlled **LCD Daughter Card**: • Color LCD touch-screen display: 800 x 480 resolution • 24-bit CD quality Audio CODEC with line-in, line-out, and microphone-in jacks • 10/100 Ethernet physical layer/media access control (PHY/MAC) **Connectors:** • VGA output • Composite TV-in • Audio-out, audio-in, and microphone-in • Secure digital (SD) card • Serial connector (RS-232 DB9 port) • PS/2 • Ethernet connector (RJ-45) **NIOS II Evaluation Kit CD-ROM:** • Example applications: • Application selector • Picture viewer • Mandelbrot acceleration with the Nios C2H compiler • Web server/Remote FPGA configuration **Hardware Tutorials:** • Create an FPGA design in one hour • Build a 32-bit soft processer system inside an FPGA **Software Tutorials:** My First Software Application **Complete Documentation:** • Quick start guide • User guide • Reference manual • Board schematic, layout, and bill of materials • Product and partner information **Cables and Accessories:** • 128Mbyte SD card and USB-to-SD card adapter • USB cable • 9V power supply • International power cords • Ethernet (RJ-45) cable (7 ft.) • Ethernet crossover adapter **Altera Complete Design Suite DVD (Free):** • Quartus® II Web Edition (FPGA design software) • ModelSim® Altera Web Edition (FPGA simulation software from ModelSim) • Nios II Embedded Design Suite (32-bit microprocessor software) • MicroC/OS-II real-time operating system evaluation • Nios II C-to-Hardware acceleration compiler evaluation • NicheStack TCP/IP Network Stack - Nios II Edition evaluation • MegaCore® IP Library (Library of intellectual property cores)

544-2411-ND (DK-N2EVAL-3C25N) **$449.00**

NEW! Cyclone® IV GX Tranceiver Starter Kit

The Cyclone IV GX Transceiver Starter Kit features the following: **Cyclone IV GX Transceiver Starter Board:** • Cyclone IV GX EP4CGX15BF14C8N FPGA • Configuration status and set-up elements • MAX® II CPLD EPM2210 System Controller enabling passive serial (PS) configuration from flash • Embedded USB-Blaster™ for using the Quartus II Programmer • JTAG header for external USB-Blaster • Altera EPCS serial configuration device **Clocks:** • FPGA clock sources: 50MHz, 125MHz, and SMA clock input • Other on-board oscillators: 6MHz, 24MHz, and 25MHz **General user input/output:** • LEDs • Two-line character LCD display • Push-buttons **Memory devices:** • 16MB of flash • 2MB of synchronous SRAM **Component and interfaces:** • PCI Express edge connector • 10/100/1000BASE-T Ethernet PHY with RJ-45 connector or one transceiver to SMA connectors (requires a minor board modification) • On-board power measurement circuitry **Power:** • Laptop DC input • PCI Express edge connector • Power management solution from Linear Technology • Power regulators: LT3027 and LT3023 • Step-down switching regulator: LT3510 • ADC: LTC2418

544-2569-ND (DK-START-4CGX15N) **$395.00**

Stratix® III FPGA Development Kit

The Stratix III FPGA Development Kit delivers a complete environment for the development and testing of designs requiring high-performance and high-density devices. Altera Stratix III FPGAs combine the world's highest performance and highest density with the lowest possible power consumption. You'll find Stratix III FPGAs provide the high-performance and high-integration capabilities needed for next-generation basestations, network infrastructure, and advanced imaging equipment. **Kit Includes: Stratix III EP3SL150F1152 High-Performance FPGA:** • 142,500 equivalent logic elements (LEs) • 744 user I/O pins • 384 18 x 18 multipliers **Clocking:** • 125.000MHz oscillator • 50.000MHz oscillator • SMA input • SMA output **Configuration:** • MAX®II flash passive serial configuration circuit • MAX II EPM2210GF256C3N CPLD • 2,210 LEs • 272 user I/O pins • 8Kbytes of user flash memory • On-board USB-Blaster™ using Quartus®II development software programming • JTAG download port **General User Input/Output:** • Power consumption display • Displays each power rail individually • System reset pushbutton • Board-specific DIP switch • JTAG bypass DIP switch • User reset pushbutton • User pushbuttons (x4) • User DIP switch (x8) • User LEDs (x8) • User quad 7 segment display • 128 x 64 dot pixels graphics display • LCD (16 character x 2 line) **Memory Devices:** • 128Mbyte DDR2 SDRAM DIMM • 16Mbyte DDR2 SDRAM devices (individually addressable) • 36Mbit QDRII SRAM device • 4Mbyte PSRAM • 64Mbyte flash memory **Components and Interfaces:** • USB 2.0 • 10/100/1,000 Ethernet • Two HSMC interfaces **Power Supplies:** • 12A DC/DC µModule • 1.5A low input voltage VLDO linear regulator • 100mA, low noise, LDO micropower regulators in SOT-23 • 4.5A, 500kHz step-down switching regulator • 1.2MHz/2.2MHz inverting DC/DC converters in ThinSOT • 1-/2-channel 24bit µPower no latency delta-sigma ADC in MSOP-10 **• Quartus II Development Kit Edition software, including a one-year License • Cable and accessories:** • External AC adapter power supply • Power cord (including support for UK, Europe)

544-2568-ND (DK-DEV-3SL150N) **$2495.01**

NEW! Stratix® III DSP Development Kit

The DSP Development Kit, Stratix III Edition delivers a complete digital signal processing (DSP) development environment. The kit facilitates the entire design process from design conception through hardware implementation. **Kit Includes: Stratix III Development Board:** • High-performance Stratix III EP3SL150F1152 FPGA • DDR2 SDRAM and QDR II SRAM • PSRAM and flash memory • USB 2.0 MAC/PHY • Graphics and character LCD displays • On-board embedded USB-BlasterTM download cable **Data Conversion HSMC:** • Two 14-bit, 150-million samples per second (MSPS) analog to digital (A/D) converters • Two 14-bit, 250-MSPS digital to analog (D/A) converters • Audio in/out/mic **Power regulators and data converters:** • LTM4601EV: 12A DC/DC µModule • LTC3026EDD: 1.5A low input voltage VLDO linear regulator • LT1761ES5-SD: 100mA, low noise, LDO micropower regulators in SOT-23 • LT1374CFE: 4.5A, 500kHz step-down switching regulator • LT1931AES5: 1.2/2.2MHz inverting DC/DC converters in ThinSOT • LTC2402CMS: 1/2-channel 24bit µPower no latency delta-sigma ADC in MSOP-10 **Stratix III FPGA Development Kit, CD-ROM:** • Design examples for the Stratix III FPGA development board • Complete documentation (User guide, Reference manual, Board schematic and layout, Bill of materials, Product and partner information) **Altera Complete Design Suite DVD** • Quartus II Development Kit Edition design software • ModelSim®-Altera software • Altera MegaCore® IP Library (simulation and hardware evaluation) • Nios®II Embedded Design Suite (EDS), Evaluation Edition (free) • DSP Builder • Video demos of Quartus II software and the Nios II processor • System reference designs and labs (DSP Builder filtering design, Nios II processor reference designs) • MATLAB/Simulink 30-day evaluation software

544-2604-ND (DK-DSP-3SL150N) **$2664.47**

Stratix® IV GX FPGA Development Kit

The Stratix IV GX FPGA Development Kit delivers a complete system-level design environment that includes both the hardware and software needed to immediately begin developing FPGA designs. With this PCI-SIG-compliant board and a one-year license for the Quartus®II design software, you can: • Develop and test PCI Express 2.0 (up to x8 lane) endpoint and rootpoint designs • Develop and test memory subsystems consisting of DDR3 and/or QDRII+ memory • Build designs capable of migrating to Altera's low-cost HardCopy®IV ASICs • Add other Stratix IV GX supported protocol interfaces such as 10-Gigabit Ethernet, CPRI, OBSAI, SAS/SATA, Serial RapidIO®, and many others by taking advantage of this board's modular capability through the high-speed mezzanine connectors (HSMC) and over 20 different HSMC cards available through Altera partners. **Kit Includes: Stratix IV GX FPGA Development Board:** • Stratix IV GX EP4SGX230KF40C2N FPGA **Configuration Status and Set-up Elements:** • Fast Passive Parallel (FPP) configuration via a MAX®II CPLD EPM2210 and flash memory • On-board USB-Blaster™ download cable using Quartus II Programmer **Clocks:** • On-board clock oscillators: 50MHz, 100MHz, 125MHz, 148.5MHz, 155.52MHz, and 156.25MHz • SMA connectors for external clock input • SMA connectors for clock output **General User Input/Output:** • LEDs • LCD display • Push-button and DIP switches **Memory Devices:** • 512MByte DDR3 SDRAM with a 64-bit data bus • 128MByte DDR3 SDRAM with a 16-bit data bus • Two 4MByte QDRII+ SRAMs with 18-bit data buses • 64MByte Sync Flash and 2MByte SSRAM **Component and Interfaces:** • PCI Express x8 edge connector • 10/100/1000BASE-T Ethernet PHY with RJ-45 connector • Two HSMC connectors • HDMI video output • 3G SDI video input and output • Power measurement circuitry • Temperature measurement circuitry **Power:** • Laptop DC input • PCI Express edge connector power • Power measurement circuitry **Other Features:** • PCI Express half-length full-height (6.6" x 4.376") board format **Stratix IV GX FPGA Development Kit CD-ROM: Design Examples**: • Board Update Portal featuring the Nios®II processor web server and remote system update • Board Test System • Complete documentation **Altera's Complete Design Suite DVD:** • Quartus II Software Development Kit Edition includes support for Stratix IV FPGAs and HardCopy IV ASICs: • One-year license included **• Nios II Embedded Design Suite • MegaCore® IP Library includes PCI Express, Triple-Speed Ethernet, SDI, and DDR3 High-Performance Controller MegaCore IP cores:** • IP evaluation available through OpenCore Plus • Loopback and debug HSMC cards • Power adapter and cables

544-2594-ND (DK-DEV-4SGX230N) **$4495.01**

NEW! Stratix® IV Video Development Kit GX Edition

The Audio Video Development Kit, Stratix IV GX Edition, delivers a complete video and image processing development environment for design engineers. The kit facilitates the entire design process, from design conception through hardware implementation.

Kit Includes: Stratix IV GX FPGA Development Board with EP4SGX230KF40C2N Device, Transceiver Serial Digital Interface (SDI) High-speed Mezzanine Card (HSMC), Video/Audio Interfaces: • HDMI video output on the FPGA host board • One 3G-SDI video input and output on the FPGA host board • Two additional SDI inputs and outputs for triple-rate SDI supporting 3G, and high-definition (HD) and standard-definition (SD) standards on the HSMC • Two AES inputs and outputs on the HSMC **Memory Devices:** • 512MByte DDR3 SDRAM with a 64-bit data bus • 128MByte DDR3 SDRAM with a 16-bit data bus • Two 4MByte QDR II+ SRAMs with 18-bit data buses • 64MByte sync flash and 2MByte SSRAM external memory **Loopback and Debug HSMCs, Stratix IV GX FPGA Development Kit CD-ROM:** • Complete board documentation, including board design files, reference manual, and user guide • Design examples: Board Update Portal and Board Test System **Altera Complete Design Suite DVD:** • Quartus II Software Development Kit Edition (1-year license) • Nios® II Embedded Design Suite • OpenCore Plus access to the MegaCore® IP library, including the Altera Video and Image Processing Suite of intellectual property (IP) cores • SDI reference design **USB and Ethernet Cables, AC Adapter Power Supply, Board Design Files:** • Schematics • Layout (Allegro format)

544-2602-ND (DK-VIDEO-4SGX230N).. **$4994.89**

Stratix® IV Signal Integrity Development Kit GX Edition

Altera's Transceiver Signal Integrity Development Kit, Stratix IV GX Edition enables a thorough evaluation of transceiver interoperability and serializer/deserializer (SERDES) signal integrity by allowing you to: • Evaluate transceiver performance from 600Mbps ~ 8.5Gbps • Generate and check pseudo-random binary sequence (PRBS) patterns via a simple to use GUI (does not require Quartus® II software) • Dynamically change Voltage Output Differential (V_{OD}), pre-emphasis, and equalization settings to optimize transceiver performance for your channel • Perform jitter analysis • Verify physical medium attachment (PMA) compliance to PCI Express (Gen1 and Gen2), Serial RapidIO®, Gigabit Ethernet, 10 Gigabit Ethernet XAUI, CEI-6G, Fibre Channel 1G/4G/8G, high-definition serial digital interface (HD-SDI) and other major standards.
Kit Includes: Stratix IV GX Development Board: • EP4SGX230KF40C2N **Configuration Status and Set-up Elements:** • FPP configuration • Embedded USB-Blaster™ download cable **Clocks:** • On-board clock oscillators: 50MHz, 100MHz, 156.25MHz, 312.5MHz, and 425.0MHz • SMA connectors for supplying an external differential clock to transceiver reference clock • SMA connectors for supplying an external differential clock to the FPGA fabric • SMA connectors to output a differential clock from the FPGA's PLL output pin **General User Input/Output:** • DIP and push-button switches • LEDs • LCD **Memory Devices:** • 64MByte sync flash memory (primarily to store FPGA configurations) **Components and Interfaces:** • Eight full-duplex transceiver channels routed to SMA connectors • One micro-strip channel with minimal board trace length • Six strip-line channels from the same transceiver block, all the trace lengths are matched across channels: • Four channels with full PMA+PCS functionality up to 8.5Gbps • Two CMU channels with PMA functionality up to 6.375Gbps • One long channel with ~33'' trace length on transmit and ~7" trace length on receive to simulate the degradation associated with backplanes or long traces • Power measurement circuitry on transceiver-related supplies • The voltage on all (and only) these rails can be supplied via banana jacks **Temperature Measurement Circuitry:** • Die temperature • Ambient temperature • RJ-45 jack and 10/100/1000Base-T Ethernet PHY **Application GUI:** • Platform independent • Interfaces to PC via JTAG • Embedded blaster **User Controllable:** • VOD and pre-emphasis settings • Equalizer setting • Test pattern **Status Indicator:** • Number of errors • BER • Lock signal
Note: Quartus II software license is not included and is not required for kit evaluation

544-2592-ND	(DK-SI-4SGX230N)	**$2995.01**

NEW! Stratix® IV Tranceiver Signal Integrity Development Kit GT Edition

Altera's Transceiver Signal Integrity Development Kit, Stratix IV GT Edition enables a thorough evaluation of transceiver interoperability and serializer/deserializer (SERDES) signal integrity by allowing you to: • Evaluate transceiver performance up to 11.3Gbps • Generate and check pseudo-random binary sequence (PRBS) patterns via a simple-to-use GUI (does not require Quartus® II software) • Dynamically change Voltage Output Differential (VOD), pre-emphasis, and equalization settings to optimize transceiver performance for your channel • Perform jitter analysis • Verify physical medium attachment (PMA) compliance to 40G/100G Ethernet, Interlaken, CEI-6G/11G, PCI Express (Gen1, Gen2, and Gen3), Serial RapidIO®, and other major standards • Validate interoperability between optical modules (optical modules require SMA input to test interoperability with the Transceiver Signal Integrity Development Kit, Stratix IV GT Edition), such as SFP, SFP+, and QSFP
Kit Includes: Stratix IV GT Development Board with EP4S100G2F40I1N Device: • Configuration status and set-up elements (Fast passive parallel (FPP) configuration, Embedded USB-BlasterTM download cable) **Clocks**: • On-board clock oscillators: 50MHz, 100MHz, 644.53MHz, and 706.25MHz • SMA connectors for supplying an external differential clock to transceiver reference clock **General User Input/Output:** • DIP and push-button switches • LEDs • LCD **Memory Devices:** • 64MByte sync flash memory (primarily to store FPGA configurations) **Components and Interfaces:** • Six full-duplex transceiver channels routed to SMA connectors (all channels support up to 11.3Gbps data rate) • Six full-duplex transceiver channels routed to FCI Airmax Connector • Power measurement circuitry on transceiver-related supplies • Voltage on all (and only) these rails can be supplied via banana jacks • Temperature measurement circuitry (Die temperature, Ambient temperature) • RJ-45 jack and 10/100/1000Base-T Ethernet PHY **Backplane Drive Capability at 6.5Gbps:** • Directly connect the transceiver signal integrity development kit to an FCI backplane (not included) through the FCI connector header • Couple with a second signal integrity development kit or FCI daughtercard (not included) for a complete end-to-end backplane channel analysis **Application GUI:** • Platform independent • Interfaces to PC via JTAG • Embedded blaster • User controllable (VOD and pre-emphasis settings, Equalizer setting, Test pattern) • Status indicator (Number of errors, Bit-error rate (BER), Lock signal) • EyeQ reconstructs the eye width in the device receiver for monitoring signal quality after equalization (up to 6Gbps) **Quartus II software license is not included and is not required for kit evaluation**

544-2603-ND	(DK-SI-4S100G2N)	**$7994.98**

NEW! Stratix® IV E FPGA Development Kit

Altera's Stratix IV E FPGA Development Kit delivers a complete system-level design environment that includes both the hardware and software needed to immediately begin developing FPGA designs. This board combined with a one-year license for Quartus® II software provides all that is needed for you to begin prototyping for a variety of designs today. You can use this development kit to: • Develop and test memory subsystems consisting of DDR3 DIMMs, QDR II+, and RLDRAM II memory interfaces • Prototype designs and speed up your verification cycle and time-to-market • Build designs capable of migrating to Altera's low-cost HardCopy® IV E ASICs • Migrate designs seamlessly from Altera's Stratix III F1152 FPGAs • Take advantage of the modular and scalable design of this development kit by using high-speed mezzanine card (HSMC) connectors to interface to one of over 20 different HSMCs provided by Altera partners.

Kit Includes: Stratix IV E FPGA Development Board with IV E EP4SE530H35C2NES FPGA Device, Configuration, Status, and Set-up Elements: • Fast passive parallel (FPP) configuration via a MAX® II EPM2210 CPLD and flash memory • On-board USB-BlasterTM download cable using Quartus II Programmer **Clocks:** • On-board clock oscillators: 50MHz, 66 Hz, 100MHz, and 125MHz • SMA connectors for external clock input • SMA connector for clock output **General User Input/Output:** • LEDs • Push-buttons • DIP switches • Graphics LCD • Character LCD • Quad seven segment display **Memory Devices:** • 2GByte DDR3 SDRAM DIMM with a 72-bit data bus • 72Mbit QDR II+ SRAM device with a 18-bit data bus • 576Mbit RLDRAM II CIO device with a 36-bit data bus • 18Mbit SSRAM with a 36-bit data bus • 512Mbit flash with a 16-bit data bus **Components and Interfaces:** • Two HSMC connectors • 10/100/1000BASE-T Ethernet PHY with RJ-45 connector • Temperature measurement circuitry • Power measurement circuitry **Other Features:** • 8.25" x 7" Board • Bench-top design **Stratix IV E FPGA Development Kit CD-ROM**: • Design Examples (Board Update Portal featuring the Nios® II processor web server and remote system update, Board Test System) • Complete documentation **Altera's Complete Design Suite DVD:** • Quartus II Software Development Kit Edition includes support for Stratix IV FPGAs and HardCopy IV ASICs (1-year license included) • Nios II Embedded Design Suite • MegaCore® IP Library includes Triple-Speed Ethernet, DDR3, RLDRAM II, and QDR II+ MegaCore intellectual property (IP) cores **Loopback and Debug HSMCs, Power Adapter and Cables**

544-2605-ND	(DK-DEV-4SE530N)	**$9994.97**

Video Input Daughtercard

The Video Input Daughter Card from Altera enables composite video to be interfaced with Altera's or third party partner FPGA development board equipped with a standard expansion connector. It is ideal for developing applications with the Video and Image Processing Solutions that need to perform any image processing. The daughter card is included as part of the Video Development Kit, Cyclone II Edition and it can be purchased as a separate item.

Features: • 2 Composite Video Input Channels using the Texas Instruments (TI) TVP5146 ADC • Support for NTSC/PAL • 10-bit BT.656 Output • Compatibility with expansion connector, standard on most Altera development kits

544-1704-ND	(DK-VIDEO-TVP5146N)	**$195.00**

USB-Blaster™ Cable

The USB-Blaster download cable interfaces to a standard USB PC port. The cable is a hardware interface to either a standard PC or UNIX workstation RS-232 port or a USB port. It provides configuration data to Excalibur™, Mercury™, APEX™ II, APEX 20K, ACEX® 1K, FLEX® 10K, FLEX 8000 and FLEX 6000 devices and programming data to MAX® 9000, MAX 7000S, MAX 3000A, MAX 7000B and MAX 7000A devices.

P0302-ND	USB Blaster Download Cable	**$75.00**

NEW! Highspeed AD/DA Cards

Features: • Dual AD channels with 14-bit resolution and data rate up to 65MSPS • Dual DA channels with 14-bit resolution and data rate up to 125MSPS • Dual interfaces include HSMC and GPIO, which are fully compatible with Cyclone III Starter Kit and DE0/DE1/DE2/DE3 etc. respectively • Clock sources include oscillator 100MHz, SMA for AD and DA each, and PLL from either HSMC or GPIO interface • Size: 90.3mm x 78.2mm

P0003_GPIO-ND	(P0003_GPIO)	**$219.00**
P0003_HSMC-ND	(P0003_HSMC)	**$219.00**

NEW! DE0 Development and Education Board

Specifications: • Altera Cyclone® III 3C16 FPGA device • Altera Serial Configuration device – EPCS4 • USB Blaster (on board) for programming and user API control; both JTAG and Active Serial • (AS) programming modes are supported • 8Mbyte SDRAM • 4Mbyte Flash memory • SD Card socket • 3 pushbutton switches • 10 toggle switches • 10 green user LEDs • 50MHz oscillator for clock sources • VGA DAC (4-bit resistor network) with VGA-out connector • RS-232 transceiver • PS/2 mouse/keyboard connector • Two 40-pin Expansion Headers **Includes:** • The DE0 board • USB Cable for FPGA programming and control • **DE0 System CD containing:** • Altera's Quartus® II Web Edition and the Nios® II Embedded Design Suit Evaluation Edition software • DE0 documentation and supporting materials, including the User Manual, the Control Panel utility, reference designs and demonstrations, device datasheets, tutorials, and a set of laboratory exercises • Clear plastic cover for the board • 7.5 DC wall-mount power supply

P0037-ND	(P0037)	**$119.00**

DE1 Development and Education Board

Specifications: FPGA: • Cyclone II EP2C20F484C7 FPGA and EPCS4 serial configuration device **I/O Devices:** • Built-in USB Blaster for FPGA configuration RS-232 port • VGA DAC resistor network (4096 colors) • PS/2 mouse or keyboard port • Line-in, Line-out, microphone-in (24-bit audio CODEC) • Expansion headers (76 signal pins) **Memory:** • 8MB SDRAM, 512KB SRAM, 4MB Flash • SD memory card slot **Switches, LEDs, Displays and Clocks:** • 10 toggle switches • 4 debounced pushbutton switches • 10 red LEDs, 8 green LEDs • Four 7-segment displays • 27MHz and 50MHz oscillators, external SMA clock input

P0528-ND	(P0528)	**$156.25**

DE2 Development and Education Board

Specifications: FPGA: • Cyclone II EP2C35F672C6 FPGA and EPCS16 serial configuration device **I/O Devices:** • Built-in USB Blaster for FPGA configuration • 10/100 Ethernet, RS-232, Infrared port • Video Out (VGA 10-bit DAC) • Video In (NTSC/PAL/Multi-format) • USB 2.0 (type A and type B) • PS/2 mouse or keyboard port • Line-in, Line-out, microphone-in (24-bit audio CODEC) • Expansion headers (76 signal pins) **Memory:** • 8MB SDRAM, 512KB SRAM, 4MB Flash • SD memory card slot **Switches, LEDs, Displays and Clocks:** • 18 toggle switches • 4 debounced pushbutton switches • 18 red LEDs, 9 green LEDs • Eight 7-segment displays • 16 x 2 LCD display • 27MHz and 50MHz oscillators, external SMA clock input
Note: Academic pricing available; call Digi-Key for pricing.

P0301-ND	(P0301)	**$466.35**

DE2-70 Development and Education Board

Includes: • Altera Cyclone® II 2C70 FPGA device • Altera Serial Configurations device EPCS16 • USB Blaster (on board) for programming and user API control; both JTAG and Active Serial (AS) programming modes are supported • 2Mbyte SSRAM • Two 32Mbyte SDRAM • 8Mbyte Flash memory • SD Card socket • 4 pushbutton switches • 18 toggle switches • 18 red user LEDs • 9 green user LEDs • 50MHz oscillator and 28.63MHz oscillator for clock sources • 24-bit CD-quality audio CODEC with line-in, line-out and microphone-in jacks • VGA DAC (10-bit high-speed triple DACs) with VGA-out connector • 2 TV Decoder (NTSC/PAL/SECAM) and TV-in connector • 10/100 Ethernet Controller with a connector • USB Host/Slave Controller with USB type A and type B connectors • RS-232 transceiver and 9-pin connector • PS/2 mouse/keyboard connector • IrDA transceiver • 1 SMA connector • Two 40-pin Expansion Headers with diode protection
Note: Academic pricing available; call Digi-Key for pricing.

P0304-ND	(P0304)	**$532.00**

MAX® II Micro Package

The MAX II Micro package contains all components needed to use the MAX II Micro board in conjunction with a computer that runs the Microsoft Windows software.

P0305-ND	(P0305)	**$69.00**

Digital Development Kits and Sensor

P0307-ND: The 4.3" Ultra-high Resolution LCD Touch Panel Development Kit provides users an 800 x 480 full-color high-quality LCD Touch Panel with complete reference designs with source code to allow users to develop applications using a touch panel on the Altera DE2-70/DE2/DE1 boards and Altera Cyclone II/Cyclone III Starter Kits.

P0001-ND: The TRDB_D5M 5 Mega Pixel Digital Camera Development Kit provides everything you need to develop a 5 Mega Pixel Digital Camera on the Terasic FPGA system board. The kit contains hardware design (in Verilog) and software to load the picture taken into the PC and save it as BMP/JPG file. The Getting Started User Guide shows users how to exercise the digital camera functions.

P0006-ND: THDB-SUM (HSMC to Santa Cruz/USB/Mictor Daughter Board) is an adapter board to convert High Speed Mezzanine Connector(HSMC) to Santa Cruz(SC), USB, Mictor, and SD Card interface. It allows users to use these interfaces on a host board with a HSMC connector.

P0033-ND: The THDB-HTG board is designed to convert a High Speed Mezzanine Connector (HSMC) I/Os to three 4-pin expansion prototype connectors, which are compatible with Altera DE2/DE1 expansion headers. Users can connect up to three Altera DE2/DE1 boards (or associated daughter cards) onto a HSTC/HSMC-interfaced host board via a THDB-HTG board.

P0307-ND	(P0307) 4.3 Inch Digital Touch Panel Development Kit (***RoHS Compliant***)	**$170.00**
P0001-ND	(P0001) 5 Mega Pixel Digital Camera Development Kit (***RoHS Compliant***)	**$85.00**
P0006-ND	(P0006) THDB-SUM Adapter Board (***RoHS Compliant***)	**$89.00**
P0033-ND	(P0033) THDB-HTG HSMC TO GPIO Daughter Board	**$55.00**

NEW! EFM32® Gecko Microcontroller Family

EFM32 Gecko Microcontroller Family:
Features: • 32-bit ARM Cortex-M3 running up to 32 MHz • 1.25 DMIPS/MHz • Superior Math Capability • Memory Protection Unit (MPU) • Single 1.8 to 3.8 volt power supply • -40° to 85°C operation range • Up to 128 KB Flash and 16 KB RAM memory • Up to 90 GPIO with 20 mA drive strength • 16 External Interrupts • External Bus Interface (EBI) • Direct memory access Controller (DMA) • Peripheral Reflex System for autonomous operation • Hardware AES with 128/256-bit encryption and decryption • Integrated high and low frequency oscillators • USARTs with UART and SPI modes up 16 Mbit/s • Low Energy UART with 100 nA receive mode • 16-bit Timer/Counters with Compare/Capture • Low Energy TIMER with optional pulse outputs • Flexible 24-bit Real Time Counter • Pulse Counter • Configurable LCD Controller driving up to 4x40 segments • 12-bit ADC, 1 M samples/s, 8 channels • 12-bit DAC, 500 ksamples/s, 2 channels • Analog Comparators with 8 input mux and capacitive sensing capability • On-chip Power-on Reset and Brown-out Detector

EFM32 Gecko Starter Kit:
Kit Summary: • Advanced Energy Monitoring • Real-time, accurate energy and power profiling • User interface with touch slider and switches • 4x40 LCD • SEGGER J-Link debugger • Free evaluation compiler versions • energyAware™ software support

Flash (KB)	RAM (KB)	LCD	ADC	AES	GPIO	Package Type	Digi-Key Part No.	Price Each 1	10	25	Energy Micro Part No.
128	16	4x40	Y	Y	90	112-BGA	914-1004-ND	8.10	7.29	6.42	EFM32-G890F128-SK
	16	4x40	Y	Y	85	100-QFP	914-1005-ND	8.10	7.29	6.42	EFM32-G880F128-SK
	16	4x24	Y	Y	56	64-QFN	914-1006-ND	8.10	7.29	6.42	EFM32-G840F128-SK
	16	—	Y	Y	90	112-BGA	914-1007-ND	8.10	7.29	6.42	EFM32-G290F128-SK
	16	—	Y	Y	85	100-QFP	914-1008-ND	8.10	7.29	6.42	EFM32-G280F128-SK
	16	—	Y	Y	56	64-QFN	914-1009-ND	8.10	7.29	6.42	EFM32-G230F128-SK
	16	—	Y	—	24	32-QFN	914-1010-ND	8.10	7.29	6.42	EFM32-G210F128-SK
EFM Gecko Starter Kit							914-1003-ND	74.25	—	—	EFM32-G8XX-STK
Prototype Board for EFM32-G8XXX-STK							914-1002-ND	108.00	—	—	EFM32-GXXX-PTB

CPLDs (Complex Programmable Logic Devices)

Atmel offers a broad range of high-density, low-power, and cost-effective solutions enabling designers to create products that are "just what the market ordered." Based on a standard architecture, which uses industry standard development tools, Atmel's CPLDs offer the unique low-power or "L" feature while providing 100% connectivity. These devices are processed with Atmel's proprietary 0.65-micron processes and have a EEPROM memory.

The ATF750/C CPLDs are based on a 22V10-type architecture and provide market-leading capacity and flexibility in a 22V10 footprint with twice the registers and additional features for better logic utilization.

The ATF1500 Series is targeted at wider logic density, with higher number of I/O's. This family has devices from 44 ~ 160 pins, and 32 ~ 96 I/O's. High connectivity, and flexible architecture make these parts highly suitable for system design. In system programmability in the larger devices allow for reconfiguration even after the device is in the system.

Standard Development Tools:
Atmel's philosophy is that designers should be able to use known development tools. Third-party design tools such as Synario™, ABEL™, CUPL™, PPLDesigner-XL™, LOG/iC™, and PLDSyn™ support Atmel's EPLDs. Also Atmel-specific versions of the popular Synario, ABEL, and CUPL design tools are offered. In addition, workstation support is available on popular platforms with Viewlogic, MINC, Cadence, Mentor, and Synopsys.

Voltage	ISP	Tpd (ns)	Registers	Macro-cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each 1	25	100	Atmel Part No.
ATF750 Series												
5.0	No	7.5	20	10	500	Standard	28-PLCC	ATF750C-7JC-ND	4.88	4.69	4.50	ATF750C-7JC
	No	7.5	20	10	500	Standard	24-DIP	ATF750C-7PC-ND	5.37	5.17	4.96	ATF750C-7PC
	No	7.5	20	10	500	Standard	24-SOIC	ATF750C-7SC-ND	4.88	4.69	4.50	ATF750C-7SC
	No	10	20	10	500	Standard	24-DIP	ATF750C-10PU-ND◆	5.15	4.84	4.53	ATF750C-10PU
	No	10	20	10	500	Standard	24-SOIC	ATF750C-10SC-ND	3.90	3.75	3.60	ATF750C-10SC
	No	15	20	10	750	Standard	28-PLCC	ATF750C-15JC-ND	2.73	2.63	2.52	ATF750C-15JC
3.0, 5.5	No	15	20	10	500	Standard	28-PLCC	ATF750LVC-15JC-ND	2.73	2.63	2.52	ATF750LVC-15JC
	No	15	20	10	500	Standard	24-DIP	ATF750LVC-15PC-ND	3.00	2.89	2.78	ATF750LVC-15PC
	No	15	20	10	500	Standard	24-SOIC	ATF750LVC-15SC-ND	3.00	2.89	2.78	ATF750LVC-15SC
ATF1500 Series												
5.0	No	10	32	32	1500	Standard	44-PLCC	ATF1500A-10JU-ND◆	4.06	3.03	2.83	ATF1500A-10JU
	No	20	32	32	1000	Low	44-TQFP	ATF1500AL-20AU-ND◆	4.24	3.16	2.96	ATF1500AL-20AU
	No	20	32	32	1000	Low	44-PLCC	ATF1500AL-20JU-ND◆	4.24	3.16	2.96	ATF1500AL-20JU
5.0	Yes	10	32	32	750	Standard	44-PLCC	ATF1502AS-10JU44-ND◆	3.21	2.46	2.12	ATF1502AS-10JU44
	Yes	10	32	32	750	Standard	44-TQFP	ATF1502AS-10AU44-ND◆	3.50	2.46	2.12	ATF1502AS-10AU44
	Yes	25	32	32	750	Low	44-TQFP	ATF1502ASL-25AU44-ND◆	3.38	2.79	2.46	ATF1502ASL-25AU44
	Yes	25	32	32	750	Low	44-PLCC	ATF1502ASL-25JU44-ND◆	2.80	2.24	1.97	ATF1502ASL-25JU44
3.3	Yes	15	32	32	750	Standard	44-TQFP	ATF1502ASV-15AU44-ND◆	2.15	1.98	1.71	ATF1502ASV-15AU44
	Yes	15	32	32	750	Standard	44-PLCC	ATF1502ASV-15JU44-ND◆	2.58	1.98	1.71	ATF1502ASV-15JU44
	Yes	20	32	32	750	Standard	44-TQFP	ATF1502ASV-20AC44-ND	2.11	1.48	1.28	ATF1502ASV-20AC44
1.8	Yes	7	32	32	750	Ultra Low	44-TQFP	ATF1502BE-7AU44-ND◆	2.26	1.53	1.46	ATF1502BE-7AU44
	Yes	5	32	64	750	Ultra Low	44-TQFP	ATF1504BE-7AU44-ND◆ ***NEW!***	3.98	2.71	2.60	ATF1504BE-7AU44
5.0	Yes	10	64	64	1500	Standard	44-PLCC	ATF1504AS-10JC44-ND	4.82	3.36	2.92	ATF1504AS-10JC44
	Yes	10	64	64	1500	Standard	44-TQFP	ATF1504AS-10AU44-ND◆	5.83	4.09	3.53	ATF1504AS-10AU44
	Yes	10	64	64	1500	Standard	84-PLCC	ATF1504AS-10JC84-ND	6.13	4.30	3.71	ATF1504AS-10JC84
	Yes	10	64	64	1500	Standard	100-TQFP	ATF1504AS-10AU100-ND◆	6.82	5.44	4.78	ATF1504AS-10AU100
	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASL-20AC44-ND	4.62	3.24	2.79	ATF1504ASL-20AC44
	Yes	20	64	64	1500	Low	100-TQFP	ATF1504ASL20AC100-ND	5.70	4.00	3.45	ATF1504ASL-20AC100
	Yes	25	64	64	1500	Low	44-TQFP	ATF1504ASL-25AU44-ND◆	6.75	4.74	4.08	ATF1504ASL-25AU44
	Yes	25	64	64	1500	Low	44-PLCC	ATF1504ASL-25JU44-ND◆	6.92	4.86	4.20	ATF1504ASL-25JU44
	Yes	25	64	64	1500	Low	100-TQFP	ATF1504ASL-25AU100-ND◆	7.07	5.44	4.70	ATF1504ASL-25AU100
3.3	Yes	15	64	64	1500	Standard	44-TQFP	ATF1504ASV-15AU44-ND◆	4.62	3.14	2.80	ATF1504ASV-15AU44
	Yes	15	64	64	1500	Standard	44-PLCC	ATF1504ASV-15JC44-ND	3.59	2.44	2.18	ATF1504ASV-15JC44
	Yes	15	64	64	1500	Standard	44-PLCC	ATF1504ASV-15JU44-ND◆	4.52	3.06	2.74	ATF1504ASV-15JU44
	Yes	15	64	64	1500	Standard	100-TQFP	ATF1504ASV-15AU100-ND◆	6.24	4.23	3.78	ATF1504ASV-15AU100
	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASVL-20AU44-ND◆	4.95	3.35	3.00	ATF1504ASVL-20AU44
	Yes	20	64	64	1500	Low	100-TQFP	ATF1504ASVL-20AU100-ND◆	6.67	4.52	4.04	ATF1504ASVL-20AU100
5.0	Yes	7.5	128	128	3000	Standard	100-TQFP	ATF1508AS-7AC100-ND	16.94	11.88	9.83	ATF1508AS-7AC100
	Yes	10	128	128	3000	Standard	84-PLCC	ATF1508AS-10JU84-ND◆	14.19	10.30	8.52	ATF1508AS-10JU84
	Yes	10	128	128	3000	Standard	100-TQFP	ATF1508AS-10AU100-ND◆	15.91	12.77	10.57	ATF1508AS-10AU100
	Yes	10	128	128	3000	Standard	100-PQFP	ATF1508AS-10QU100-ND◆	25.43	17.84	14.76	ATF1508AS-10QU100
	Yes	20	128	128	3000	Low	84-PLCC	ATF1508ASL-20JC84-ND	9.57	6.71	5.56	ATF1508ASL-20JC84
	Yes	20	128	128	3000	Low	100-TQFP	ATF1508ASL20AC100-ND	11.95	8.40	6.95	ATF1508ASL-20AC100
	Yes	25	128	128	3000	Low	84-PLCC	ATF1508ASL-25JU84-ND◆	12.64	8.87	7.34	ATF1508ASL-25JU84
	Yes	25	128	128	3000	Low	100-TQFP	ATF1508ASL-25AU100-ND◆	15.67	10.99	9.09	ATF1508ASL-25AU100
3.3	Yes	5	128	128	3000	Ultra Low	100-TQFP	ATF1508RE-7AU100-ND◆	5.59	4.47	4.06	ATF1508RE-7AU100
	Yes	15	128	128	3000	Standard	100-TQFP	ATF1508ASV-15AU100-ND◆	5.38	3.78	3.26	ATF1508ASV-15AU100
	Yes	20	128	128	3000	Low	100-TQFP	ATF1508ASVL-20AU100-ND◆	5.59	3.90	3.38	ATF1508ASVL-20AU100
	Yes	20	128	128	3000	Low	84-PLCC	ATF1508ASVL-20JU84-ND◆	5.05	3.55	3.06	ATF1508ASVL-20JU84
ATF2500 Series												
5.0	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JU-ND◆	8.47	6.76	5.94	ATF2500C-15JU
	No	20	48	24	1500	Standard	44-PLCC	ATF2500C-20JC-ND	5.72	4.57	4.02	ATF2500C-20JC
	No	20	48	24	1500	Standard	40-DIP	ATF2500C-20PU-ND◆	7.55	6.04	5.30	ATF2500C-20PU

◆ ***RoHS Compliant***

ATF15xx-DK3 CPLD Development Kit

The Atmel CPLD Development/Programmer Kit is a complete development system and an In-System programmer for the ATF15xx family of industry standard pin compatible Complex Programmable Logic Devices with Logic Doubling features. This kit provides designers a very quick and easy way to develop prototypes and evaluate new designs with an ATF15xx ISP CPLD. The ATF15xx family of ISP CPLDs includes the ATF15xxAS, ATF15xxASL, ATF15xxASV, ATF15xxASVL, and ATF15xxBE CPLDs. With the availablility of the different Socket Adapter Boards to support all the package types offered in the ATF15xx family of ISP CPLDs, this CPLD Development/Programmer Board can be used as an ISP programmer to program the ATF15xx ISP CPLDs in all the available package types through the industry standard JTAG interface (IEEE 1149.1).

CPLD Demo Board/Programmer Board:

• ISP (JAT) Port • Wire-wrap terminal holes-all pins • 2MHz Crystal Oscillator • Eight 8-segment LED Displays • 5V and 3.3V Vcc operation • Easy access to CPLD I/O pins • Global Clear, Output Enable and Power Switches **Logic Doubling™ CPLDs:** • ATF1508ASVL-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP **CPLD Programmable Cable:** • 5V and 3.3V ISP cable for PC parallel port with Vcc Auto Detection **Software CD:** • Free Atmel-WinCUPL design software and User's Manual • 30-day Trial Version of Atmel-ProChip Designer™ software • Logic Doubling Support and Documentation • Logic Doubling Reference • Atmel Databook CD **Atmel-ProChip Designer: Design Entry**: • VHDL, Schematic and CUPL • Synthesis • Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling • Timing Simulation

ATF15XX-DK3-ND	CPLD Development Kit for ATF15XX	**$102.96**
ATF15XXDK3-SAA100-ND	100-PLCC/TQFP Adapter Socket for ATF15XXB	**$140.40**
ATF15XXDK3-SAJ44-ND	84/44 PLCC Adapter Socket for ATF15XXBE	**$36.40**
ATF15XXDK3-SAJ84-ND	84/84 PLCC Adapter Socket for ATF15XXBE	**$52.00**
ATDS15XXKSW1-ND	5.0 Prochip Software License	**$99.00**

FPGA Configurator Programming Kit (Enhanced) ATDH2200E

Atmel offers a low cost development kit for the designer who wishes to begin working with the AT17 Series of ISP FPGA configuration memories. The kit allows designers to read, write and in-system program any of Atmel's AT17 series family members directly from a PC. All standard file input formats produced by the various FPGA vendors are supported. The AT17 series devices can be programmed directly on the programming board or the board can be used to facilitate in-system programming of the AT17 series devices in the target application (cable provided). The ATDH2200E supports all Atmel AT17 series configuration memories.

FEATURES:

Hardware: • Supports Programming of all AT17C/LV Series Devices • Connection to Allow In-System Program (ISP) • 5.0V or 3.0V Supply **Software:** • CPS - Configurator Programming System • GUI-based Interface • Supports Win95/Win98/WinNT • Online Help • Supports Programming Reset Polarity • Verification Routines to Validate Programming • Accepts HEX, MCS, POF, RBF and BST File Formats **System Contents:** • ATDH2200 Programming Board • ATDH2222 20-pin PLCC Adapter • CPS Software • ATDH2200E Datasheet • ATDH2200E Programming Kit User Guide • Standard (PC Printer Port) Parallel Cable • 10-pin Ribbon Cable for ISP • 9V DC, 200mA, 2.1mm Center Positive Power Supply • Sample AT17C/LV Devices

ATDH2200E-ND	FPGA Configurator Program Kit	**$154.96**
ATDH2221-ND	20-SOIC Adapter	**$145.60**
ATDH2222-ND	20-PLCC Adapter	**$149.50**
ATDH2224-ND	44-TQFP Adapter	**$154.96**
ATDH2225-ND	AT17 ISP Cable	**$98.80**
ATDH2227-ND	44-PLCC Adapter	**$154.96**
ATDH2227A-ND	44-PLCC Adapter	**$154.96**

FPGA Configuration Memory

In-System Reprogrammable Serial EEPROMs

The **AT17 Series** FPGA Configuration EEPROMs (Configurators) provide an easy-to-use, cost-effective configuration memory for Field Programmable Gate Arrays. It uses a simple serial-access procedure to configure one or more FPGA devices. The organization supplies enough memory to configure one or multiple smaller FPGAs. The Configurators can be programmed with industry-standard programmers or Atmel's ATDH2200E Programming System. **Features:** • EE Programmable Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs) • In-System Programmable via 2-wire Bus • Simple Interface to SRAM FPGAs • Compatible with Atmel AT6000, AT40K, AT94K, Altera® FLEX®, APEX™ Devices, ORCA®, Xilinx® XC3000, XC4000, XC5200, Spartan®, Virtex™ FPGAs • Cascadable Read-back to Support Additional Configurations or Future Higher-density Arrays • Low-power CMOS EEPROM Process • Programmable Reset Polarity • Available in LAP, PDIP, SOIC, PLCC and TQFP Packages (Pin Compatible Across Product Family) • Emulation of Atmel's AT24CXXX Serial EEPROMs • Available in 3.3V ± 10% LV and 5V ± 5% C versions • System-friendly READY Pin • Low-power Standby Mode

Memory Size	Package Options	Digi-Key Part No.	Price Each 1	25	100	Atmel Part No.
		AT17 Series				
64Kbit	8-DIP	AT17LV65-10PI-ND	6.45	4.56	4.31	AT17LV65-10PI
	8-DIP	AT17LV65-10PC-ND	5.81	4.10	3.88	AT17LV65-10PC
	8-SOIC	AT17LV65-10NI-ND	7.74	5.48	5.17	AT17LV65-10NI
	8-SOIC	AT17LV65-10NC-ND	6.45	4.56	4.31	AT17LV65-10NC
	8-LAP	AT17LV65-10CI-ND	4.21	4.05	3.89	AT17LV65-10CI
	8-LAP	AT17LV65-10CC-ND	3.35	3.23	3.10	AT17LV65-10CC
	20-SOIC	AT17LV65-10SI-ND	4.68	4.50	4.32	AT17LV65-10SI
	20-SOIC	AT17LV65-10SC-ND	3.90	3.75	3.60	AT17LV65-10SC
	20-PLCC	AT17LV65-10JI-ND	6.45	4.56	4.31	AT17LV65-10JI
	20-PLCC	AT17LV65-10JC-ND	5.81	4.10	3.88	AT17LV65-10JC
128Kbit	8-DIP	AT17LV128-10PC-ND	10.32	7.30	6.89	AT17LV128-10PC
	8-SOIC	AT17LV128-10NI-ND	16.51	11.66	11.03	AT17LV128-10NI
	8-SOIC	AT17LV128-10NC-ND	13.42	9.48	8.96	AT17LV128-10NC
	8-LAP	AT17LV128-10CI-ND	6.73	6.48	6.22	AT17LV128-10CI
	8-LAP	AT17LV128-10CC-ND	5.37	5.17	4.96	AT17LV128-10CC
	20-SOIC	AT17LV128-10SI-ND	16.51	11.66	11.03	AT17LV128-10SI
	20-SOIC	AT17LV128-10SC-ND	13.42	9.48	8.96	AT17LV128-10SC
	20-PLCC	AT17LV128-10JI-ND	15.48	10.94	10.34	AT17LV128-10JI
	20-PLCC	AT17LV128-10JC-ND	12.38	8.75	8.27	AT17LV128-10JC
256Kbit	8-DIP	AT17LV256-10PU-ND◆	12.04	8.51	8.04	AT17LV256-10PU
	8-SOIC	AT17LV256-10NU-ND◆	12.04	8.51	8.04	AT17LV256-10NU
	20-SOIC	AT17LV256-10SU-ND◆	14.45	10.21	9.65	AT17LV256-10SU
512Kbit	8-DIP	AT17LV512-10PI-ND	16.13	11.39	10.77	AT17LV512-10PI
	8-DIP	AT17LV512-10PC-ND	14.51	10.26	9.70	AT17LV512-10PC
	8-DIP	AT17LV512A-10PI-ND	8.06	5.70	5.39	AT17LV512A-10PI
	8-DIP	AT17LV512A-10PC-ND	7.27	5.13	4.85	AT17LV512A-10PC
	8-LAP	AT17LV512-10CC-ND	8.39	8.07	7.74	AT17LV512-10CC
	8-LAP	AT17LV512-10CU-ND◆	16.13	11.39	10.77	AT17LV512-10CU
	20-SOIC	AT17LV512-10SI-ND	11.70	11.25	10.80	AT17LV512-10SI
	20-SOIC	AT17LV512-10SC-ND	9.75	9.38	9.00	AT17LV512-10SC
	20-PLCC	AT17LV512A-10JU-ND◆	8.06	5.70	5.39	AT17LV512A-10JU

The **AT18F Series** of JTAG In-System Programmable Configuration PROMs (Configurators) provide an easy-to-use, cost effective configuration memory for Field Programmable Gate Arrays. The AT18F Series device is packaged in a 20-lead TSSOP. The AT18F Series Configurator uses a simple serial-access procedure to configure one or more FPGA devices. The AT18F Series Configurators can be programmed with Atmel or industry-standard, third-party, stand-alone programmers such as BP, Data I/O, Hi-Lo, etc.

Features: • Programmable 1,048,576 x 1, 2,097,152 x 1, 4,194,304 x 1 and 7,340,032 x 1-bit Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs) • 1.8V, 2.5V, 3.3V I/O • 3.3V Supply Voltage • In-System Programmable (ISP) via JTAG Interface (IEEE 1532) • IEEE 1149.1 Boundary-scan Testability • Low-power Standby Mode • Fast Serial Download Speeds up to 33 MHz • Endurance: 100,000 Write Cycles Typical

Memory Size	Package Options	Digi-Key Part No.	Price Each 1	25	100	Atmel Part No.
1-Mbit	8-DIP	AT17LV010-10PU-ND◆	19.35	13.11	12.48	AT17LV010-10PU
	8-DIP	AT17LV010A-10PI-ND	14.34	10.13	9.58	AT17LV010A-10PI
	8-DIP	AT17LV010A-10PC-ND	12.90	9.12	8.62	AT17LV010A-10PC
	8-LAP	AT17LV010-10CU-ND◆	19.35	13.11	12.48	AT17LV010-10CU
1-Mbit	20-PLCC	AT17LV010-10JU-ND◆	19.35	13.11	12.48	AT17LV010-10JU
	20-PLCC	AT17LV010A-10JU-ND◆	17.20	12.16	11.50	AT17LV010A-10JU
	32-TQFP	AT17LV010A-10QI-ND	21.52	15.20	14.37	AT17LV010A-10QI
	32-TQFP	AT17LV010A-10QC-ND	17.20	12.16	11.50	AT17LV010A-10QC
2-Mbit	8-LAP	AT17LV002-10CC-ND	21.03	20.23	19.42	AT17LV002-10CC
	8-LAP	AT17LV002-10CU-ND◆	25.80	18.10	16.85	AT17LV002-10CU
	20-PLCC	AT17LV002-10JU-ND◆	25.80	18.10	16.85	AT17LV002-10JU
	20-PLCC	AT17LV002A-10JU-ND◆	21.50	15.18	14.35	AT17LV002A-10JU
	44-TQFP	AT17LV002-10TQI-ND	30.06	28.90	27.75	AT17LV002-10TQI
	44-TQFP	AT17LV002-10TQC-ND	24.04	23.12	22.19	AT17LV002-10TQC
4-Mbit	8-LAP	AT17F040-30CC-ND	16.04	12.13	11.43	AT17F040-30CC
	8-LAP	AT17F040A-30CU-ND◆	10.75	7.02	6.50	AT17F040A-30CU
	20-PLCC	AT17F040-30JU-ND◆	15.05	9.83	9.10	AT17F040-30JU
	32-TQFP	AT17F040A-30QC-ND	6.50	6.25	6.00	AT17F040A-30QC
	32-TQFP	AT17F040A-30QI-ND	7.48	7.19	6.90	AT17F040A-30QI
	44-TQFP	AT17LV040-10TQU-ND◆	51.60	36.45	34.45	AT17LV040-10TQU
8-Mbit	8-LAP	AT17F080-30CU-ND◆	25.80	16.85	15.60	AT17F080-30CU
	20-PLCC	AT17F080-30JU-ND◆	29.67	19.38	17.94	AT17F080-30JU
	20-PLCC	AT17F080A-30JU-ND◆	19.78	12.92	11.96	AT17F080A-30JU
	32-TQFP	AT17F080A-30QI-ND	11.96	11.50	11.04	AT17F080A-30QI
	44-TQFP	AT17F080-30TQI-ND	26.91	25.88	24.84	AT17F080-30TQI
16-Mbit	8-LAP	AT17F16-30CU-ND◆	32.25	21.06	19.50	AT17F16-30CU
	20-PLCC	AT17F16-30JU-ND◆	37.09	24.23	22.43	AT17F16-30JU
	44-TQFP	AT17F16-30TQC-ND	19.50	18.75	18.00	AT17F16-30TQC
	44-TQFP	AT17F16-30TQI-ND	22.43	21.57	20.70	AT17F16-30TQI
32-Mbit	44-PLCC	AT17F32A-30BJU-ND◆	35.88	34.50	33.12	AT17F32A-30BJU
		NEW! AT18F Series Configuration Memory — RoHS Compliant NEW!				
1-Mbit	20-TSSOP	AT18F010-30XU-ND	4.52	2.84	2.52	AT18F010-30XU
2-Mbit	20-TSSOP	AT18F002-30XU-ND	6.02	3.78	3.36	AT18F002-30XU
4-Mbit	20-TSSOP	AT18F040-30XU-ND	8.28	5.20	4.62	AT18F040-30XU
7-Mbit	20-TSSOP	AT18F080-30XU-ND	16.56	10.40	9.24	AT18F080-30XU

◆ ***RoHS Compliant***

NEW! ATF-DK3 Configurator Programming Kit

The AT18F-DK3 Configurator Development Kit is an In-System Programming (ISP) for the AT18F Series of FPGA configuration memories (Configurators). This kit provides designers an easy way to develop, prototype and evaluate new designs using the Atmel AT18F devices.
Kit Content: • ATF15xx-DK3 Development Base Board • 20-lead TSSOP Socket Adapter Board (ATF15xxDK3-SAX20) • An Optional ISP Header Converter • One AT18F010-30XU and One ATF18F002-30XU Configurator Samples • A Quick Start Guide • An AT18F-DK3 Flyer Note: JCPS Tutorial can be found from the Help menu of the software after installation.

AT18F-DK3-ND **$154.96**

FPGA's (Field Programmable Gate Arrays)

AT40K Series FPGAs

Atmel's AT40K Series coprocessor FPGAs range from 5K to 50K usable gates, and are designed for high density, compute-intensive DSP and other fast logic designs. The AT40K family solves the Logic vs. SRAM trade-off problem by providing fast, flexible, distributed 10ns FreeRAM™ without using valuable logic resources. Structured logic functions, including variable array multipliers can be implemented directly in core cells without using any bussing resources - providing dramatic improvements in speed, utilization, power and system cost. The AT40K family has the ability to implement Cache Logic design, where part of the FPGA can be reprogrammed without loss of register data, while the remainder of the FPGA continues to operate without disruption. This is ideal for building adaptive filters, variable coefficient multipliers and other designs where the datapath can change to increase system performance. All Atmel FPGAs can be designed using industry standard CAE tools for schematics, VHDL and Verilog on a PC, Sun, or HP workstation.

Features:

• Distributed, single/dual port 10ns SRAM, independent of logic cells • Up to 384 PCI compliant I/Os • Mixed 3V/5V capability • Architecture optimized for efficient, ultrafast array multipliers • Cache Logic® dynamic full/partial reconfigurability in-system • Eight global clocks • Efficient, industry-standard design tools, optimized for synthesis • QuickChange™ tools for adaptive hardware designs • Variety of surface mount packages • All devices in family are pin-compatible

Usable Gates	Cells	Ram (Bits)	Speed (ns)	Vcc	I/O (Maximum)	Package Options	Digi-Key Part No.	Price Each 1	25	100
5K ~ 10K	256	2,048	2	5.0	62	84-PLCC	AT40K05-2AJI-ND	17.94	17.25	16.56
	256	2,048	2	5.0	114	144-LQFP	AT40K05-2BQC-ND	28.92	20.39	19.30
	256	2,048	2	5.0	128	160-PQFP	AT40K05-2CQC-ND	17.62	16.94	16.26
	256	2,048	2	5.0	128	208-PQFP	AT40K05-2DQI-ND	20.28	19.50	18.72
	256	2,048	2	5.0	128	208-PQFP	AT40K05-2DQC-ND	17.62	16.94	16.26
5K ~ 10K	256	2,048	1	3.3	62	84-PLCC	AT40K05AL-1AJC-ND	7.80	7.50	7.20
	256	2,048	1	3.3	78	100-TQFP	AT40K05AL-1AQC-ND	8.84	8.50	8.16
	256	2,048	1	3.3	128	208-PQFP	AT40K05AL-1DQC-ND	8.84	8.50	8.16
	256	2,048	1	3.3	128	208-PQFP	AT40K05AL-1DQI-ND	10.14	9.75	9.36
	256	2,048	3	3.3	128	208-PQFP	AT40K05LV-3DQC-ND	11.96	11.50	11.04
10K ~ 20K	576	4,608	2	5.0	62	84-PLCC	AT40K10-2AJC-ND	23.40	22.50	21.60
	576	4,608	2	5.0	62	84-PLCC	AT40K10-2AJI-ND	26.91	25.88	24.84
	576	4,608	2	5.0	78	100-TQFP	AT40K10-2AQC-ND	26.46	25.44	24.42
	576	4,608	2	5.0	114	144-LQFP	AT40K10-2BQC-ND	26.20	25.19	24.18
10K ~ 20K	576	4,608	3	3.3	161	208-PQFP	AT40K10LV-3DQC-ND	17.94	17.25	16.56
20K ~ 30K	1,024	8,192	2	5.0	62	84-PLCC	AT40K20-2AJC-ND	68.80	48.57	45.92
	1,024	8,192	2	5.0	62	84-PLCC	AT40K20-2AJI-ND	79.12	55.90	52.84
	1,024	8,192	2	5.0	114	144-LQFP	AT40K20-2BQC-ND	47.00	45.19	43.38
	1,024	8,192	2	5.0	161	208-PQFP	AT40K20-2DQC-ND	47.00	45.19	43.38
	1,024	8,192	2	5.0	161	208-PQFP	AT40K20-2DQI-ND	89.44	63.18	59.70
	1,024	8,192	2	5.0	193	240-PQFP	AT40K20-2EQC-ND	77.72	54.92	51.90
	1,024	8,192	2	5.0	193	240-PQFP	AT40K20-2EQI-ND	89.44	63.18	59.70
40K ~ 50K	2,304	18,432	2	5.0	114	144-LQFP	AT40K40-2BQC-ND	98.35	94.57	90.78
	2,304	18,432	2	5.0	161	208-PQFP	AT40K40-2DQC-ND	98.35	94.57	90.78
40K ~ 50K	2,304	18,432	1	3.3	193	240-PQFP	AT40K40AL-1EQI-ND	50.70	48.75	46.80
	2,304	18,432	3	3.3	114	144-TQFP	AT40K40LV-3BQC-ND	68.64	66.00	63.36

SPLDs (PAL Compatible 16V8, 20V8, 22V10)

Atmel SPLDs are products based on the classic PAL architecture and consist of the popular industry standard 16V8, 20V8, and 22V10 in different speed, package, and power specifications. Supported by a wide variety of development tools, these variations offer features such as quarter-power, low standby power, and zero (<25µA) standby power. Atmel's family of Flash-based electrically erasable devices combine proven high-performance and low-power technologies.

Usable Gates	Macro-Cells	Reg.	Tpd (ns)	(V)	Power Opt.	Package Type	Digi-Key Part No.	Price Each 1	25	100
250	8	8	10	5.0	Std	20-PLCC	ATF16V8B-10JU-ND◆	1.35	1.16	1.02
	8	8	10	5.0	Std.	20-Dip	ATF16V8B-10PC-ND	1.68	1.16	1.02
	8	8	15	5.0	Low	20-SOIC	ATF16V8B-15SU-ND◆	1.12	1.02	.92
	8	8	10	5.0	Qtr	20-PLCC	ATF16V8BQ-10JC-ND	2.26	1.59	1.37
	8	8	15	5.0	Qtr & Low	20-PLCC	ATF16V8BQL-15JU-ND◆	1.40	1.09	1.00
	8	8	15	5.0	Qtr & Low	20-Dip	ATF16V8BQL-15PU-ND◆	1.40	1.09	1.00
	8	8	15	5.0	Qtr & Low	20-SOIC	ATF16V8BQL-15SU-ND◆	1.44	1.04	.97
	8	8	15	5.0	Qtr & Low	20-TSSOP	ATF16V8BQL-15XU-ND◆	1.72	1.15	1.04
	8	8	5.0	5.0	Qtr & Std.	20-PLCC	ATF16V8C-5JC-ND	2.80	2.24	1.80
	8	8	7.5	5.0	Std	20-PLCC	ATF16V8C-7JU-ND◆	3.24	2.68	2.17
	8	8	7.5	5.0	Std.	20-Dip	ATF16V8C-7PU-ND◆	2.50	2.06	1.67
	8	8	7.5	5.0	Std	20-SOIC	ATF16V8C-7SU-ND◆	3.24	2.68	2.17
	8	8	12	5.0	Std. & Zero	20-PLCC	ATF16V8CZ-12JC-ND	3.23	2.57	2.07
	8	8	12	5.0	Std. & Zero	20-SOIC	ATF16V8CZ-12SC-ND	3.23	2.57	2.07
	8	8	15	5.0	Zero	20-Dip	ATF16V8CZ-15PU-ND◆	2.39	1.98	1.60
	8	8	15	5.0	Zero	20-SOIC	ATF16V8CZ-15SU-ND◆	2.39	1.98	1.60
	8	8	15	5.0	Zero	20-TSSOP	ATF16V8CZ-15XU-ND◆	3.23	2.57	2.07
	8	8	10	3.0 ~ 5.5	Std	20-PLCC	ATF16LV8C-10JC-ND	2.69	1.76	1.63
	8	8	10	3.0 ~ 5.5	Std	20-SOIC	ATF16LV8C-10SC-ND	2.69	1.76	1.63
300	8	8	10	5.0	Std.	24-Dip	ATF20V8B-10PU-ND◆	3.35	2.95	2.54

Usable Gates	Macro-Cells	Reg.	Tpd (ns)	(V)	Power Opt.	Package Type	Digi-Key Part No.	Price Each 1	25	100
500	10	10	7.5	5.0	Std.	24-Dip	ATF22V10C-7PC-ND	3.23	2.27	1.96
	10	10	10	5.0	Std	28-PLCC	ATF22V10C-10JU-ND◆	2.26	1.98	1.71
	10	10	10	5.0	Std	24-Dip	ATF22V10C-10PC-ND	2.26	1.59	1.37
	10	10	10	5.0	Std.	24-SOIC	ATF22V10C-10SC-ND	2.26	1.59	1.37
	10	10	15	5.0	Std	28-PLCC	ATF22V10C-15JU-ND◆	1.93	1.70	1.47
	10	10	15	5.0	Std	24-Dip	ATF22V10C-15PU-ND◆	1.93	1.70	1.47
	10	10	15	5.0	Qtr	24-Dip	ATF22V10CQ-15PC-ND	2.15	1.51	1.30
	10	10	20	5.0	Qtr & Zero	28-PLCC	ATF22V10CQZ-20JU-ND◆	2.68	2.37	2.03
	10	10	20	5.0	Qtr & Zero	24-Dip	ATF22V10CQZ-20PU-ND◆	2.68	2.37	2.03
	10	10	20	5.0	Qtr & Zero	24-SOIC	ATF22V10CQZ-20SU-ND◆	2.68	2.37	2.03
	10	10	20	5.0	Qtr & Zero	24-TSSOP	ATF22V10CQZ-20XU-ND◆	2.90	2.37	2.03
	10	10	12	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-12JC-ND	6.45	4.53	3.75
	10	10	12	5.0	Std. & Zero	24-Dip	ATF22V10CZ-12PC-ND	6.45	4.53	3.75
	10	10	12	5.0	Std. & Zero	24-SOIC	ATF22V10CZ-12SC-ND	6.45	4.53	3.75
	10	10	15	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-15JC-ND	4.49	3.62	3.00
	10	10	15	5.0	Std. & Zero	24-Dip	ATF22V10CZ-15PC-ND	4.49	3.62	3.00
	10	10	15	5.0	Std. & Zero	24-SOIC	ATF22V10CZ-15SC-ND	4.49	3.62	3.00
	10	10	10	3.0 ~ 5.5	Std	28-PLCC	ATF22LV10C-10JU-ND◆	2.08	1.98	1.88
	10	10	10	3.0 ~ 5.5	Std.	24-Dip	ATF22LV10C-10PU-ND◆	3.05	2.46	2.03
	10	10	10	3.0 ~ 5.5	Std	24-SOIC	ATF22LV10C-10SU-ND◆	2.80	1.97	1.63
	10	10	10	3.0 ~ 5.5	Std	24-TSSOP	ATF22LV10C-10XU-ND◆	2.80	1.97	1.63
	10	10	25	3.0 ~ 5.5	Std. & Zero	24-Dip	ATF22LV10CZ-25PC-ND	3.23	2.27	1.88
	10	10	25	3.0 ~ 5.5	Std. & Zero	24-SOIC	ATF22LV10CZ-25SC-ND	3.23	2.27	1.88
	10	10	30	3.0 ~ 5.5	Qtr & Zero	24-Dip	ATF22LV10CQZ-30PU-ND◆	2.81	2.27	1.88
	10	10	30	3.0 ~ 5.5	Qtr & Zero	24-SOIC	ATF22LV10CQZ-30SU-ND◆	3.23	2.27	1.88

◆ *RoHS Compliant*

AT91 ARM® Thumb® Microcontrollers

The best combination of low-power consumption, 32-bit performance and 16-bit system cost. The AT91 series provides the optimal combination of processing power, peripherals and memory blocks for demanding real-time applications that require high performance on a tight power budget. Its wide range of Real Time Operating Systems and sophisticated application development tools minimize the risk and time taken to bring new applications to the market.

Features: • 3-stage instruction execution pipeline for high instruction throughout • Single-cycle memory access through EBI • Hardware multiplier-plus-barrel shifter gives DSP capability • PDC channels (on-chip DMA) free the processor for the application • Advanced power management provides idle mode and disables unused peripherals • Low-latency Advanced Interrupt Controller • Operating Temperature: Industrial -40°C ~ 85°C • Watchdog Timer

Program Memory Type	Memory Size			I/O Pins	USART	TWI	SPI	Timer/ Counters (16-bit)	ADC	DAC	Clock Speed (MHz)	VCC	Package	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	Boot ROM Bytes												1	25	100
—	—	8K	—	32	2	—	—	3	—	—	40	1.8 ~ 3.6V	100-TQFP	AT91M40800-33AU-ND	8.86	5.57	5.10
—	—	8K	—	54	2	—	2	6	—	—	33	2.7 ~ 3.6V	144-LQFP	AT91M42800A-33AU-ND	13.46	8.46	7.74
—	—	8K	—	58	3	—	1	6	8-ch/10-bit	2-ch/10-bit	33	2.7 ~ 3.6V	176-LQFP	AT91M55800A-33AU-ND	16.38	10.29	9.43
—	—	256K	—	32	2	—	—	3	—	—	75	1.65 ~ 1.95V	100-LQFP	AT91R40008-66AU-ND	14.71	9.24	8.46
ROM	32K	16K	128K	122	4	1	1	6	—	—	180	1.65 ~ 1.95V	256-BGA	AT91RM9200-CJ-002-ND	30.75	19.31	17.68
ROM	32K	16K	128K	122	4	1	1	6	—	—	180	1.65 ~ 1.95V	208-PQFP	AT91RM9200-QU-002-ND	28.92	18.16	16.62
Flash	256K	32K	—	62	3	1	2	9	16-ch/10-bit	—	60	3.0 ~ 3.6V	100-LQFP	AT91SAM7A3-AU-ND	16.43	10.32	9.45
Flash	64K	6K	—	80	2	1	1	1	4-ch/10-bit	—	36	1.8 ~ 3.6V	128-LQFP	AT91SAM7L64-AU-ND	10.60	6.66	6.09
Flash	64K	6K	—	80	2	1	1	1	4-ch/10-bit	—	36	1.8 ~ 3.6V	144-LFBGA	AT91SAM7L64-CU-ND	10.43	6.55	6.01
Flash	128K	6K	—	80	2	1	1	1	4-ch/10-bit	—	36	1.8 ~ 3.6V	128-LQFP	AT91SAM7L128-AU-ND	12.56	7.89	7.22
Flash	128K	6K	—	80	2	1	1	1	4-ch/10-bit	—	36	1.8 ~ 3.6V	144-LFBGA	AT91SAM7L128-CU-ND	14.58	9.16	8.39
Flash	16K	4K	—	21	1	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	48-QFN	AT91SAM7S16-MU-ND	5.96	3.74	3.43
Flash	32K	8K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S321-AU-ND	6.45	4.05	3.72
Flash	32K	8K	—	32	2	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	64-QFN	AT91SAM7S321-MU-ND	6.77	4.26	3.89
Flash	512K	64K	—	32	2	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	64-LQFP	AT91SAM7S512-AU-ND	16.17	10.16	9.30
Flash	512K	64K	—	32	2	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	64-QFN	AT91SAM7S512-MU-ND	16.56	10.40	9.52
Flash	32K	8K	—	88	2	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	128-LQFP	AT91SAM7SE32-AU-ND	9.95	6.26	5.72
Flash	32K	8K	—	88	2	1	1	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	144-LFBGA	AT91SAM7SE32-CU-ND	11.83	7.43	6.81
Flash	64K	16K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S64B-AU-ND	8.32	5.23	4.79
Flash	64K	16K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-QFN	AT91SAM7S64B-MU-ND	8.64	5.43	4.98
Flash	128K	32K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S128AU001-ND	10.13	6.36	5.83
Flash	128K	32K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-QFN	AT91SAM7S128-MU-ND	10.43	6.55	6.01
Flash	256K	64K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S256AU001-ND	12.47	7.83	7.18
Flash	256K	64K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-QFN	AT91SAM7S256-MU-ND	12.81	8.05	7.38
Flash	256K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	128-LQFP	AT91SAM7SE256-AU-ND	14.86	9.33	8.55
Flash	256K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	144-BGA	AT91SAM7SE256-CU-ND	16.43	10.32	9.45
Flash	512K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	128-LQFP	AT91SAM7SE512-AU-ND	18.64	11.71	10.72
Flash	512K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	144-BGA	AT91SAM7SE512-CU-ND	20.04	12.59	11.52
Flash	128K	32K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-LQFP	AT91SAM7X128B-AU-ND ***NEW!***	11.14	7.00	6.40
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-LQFP	AT91SAM7X256B-AU-ND ***NEW!***	13.74	8.63	7.90
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-TFBGA	AT91SAM7X256B-CU-ND ***NEW!***	15.11	9.50	8.70
Flash	512K	128K	—	62	2	1	2	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-LQFP	AT91SAM7X512-AU-ND	20.00	12.56	11.50
Flash	512K	128K	—	62	2	1	2	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-TFBGA	AT91SAM7X512-CU-ND	21.50	13.50	12.36
Flash	128K	32K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7XC128-AU-ND	6.24	6.00	5.76
Flash	128K	32K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-TFBGA	AT91SAM7XC128B-CU-ND ***NEW!***	13.46	8.46	7.74
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-LQFP	AT91SAM7XC256B-AU-ND ***NEW!***	14.77	9.28	8.50
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-TFBGA	AT91SAM7XC256B-CU-ND ***NEW!***	16.15	10.14	9.29
Flash	512K	128K	—	62	2	1	2	1	8-ch/10-bit	—	55	1.8 ~ 3.3V	100-TFBGA	AT91SAM7XC512-CU-ND	22.64	14.22	13.02
ROM	16K	8K	32K	96	4	1	2	2	4-ch/10-bit	—	210	3.0 ~ 3.6V	217-LFBGA	AT91SAM9260B-CU-ND	17.35	10.90	9.98
ROM	16K	8K	32K	96	4	1	2	2	4-ch/10-bit	—	210	3.0 ~ 3.6V	208-PQFP	AT91SAM9260B-QU-ND	17.35	10.90	9.98
ROM	—	160K	—	96	3	1	2	3	—	—	240	1.8 ~ 3.3V	217-LFBGA	AT91SAM9261B-CU-ND ***NEW!***	22.47	14.11	12.92
ROM	96K	16	32K	160	3	1	2	3	—	—	240	1.8 ~ 3.3V	324-TFBGA	AT91SAM9263B-CU-ND	29.28	18.39	16.84
ROM	64K	32K	—	96	4	1	2	2	4-ch/10-bit	—	400	3.0 ~ 3.6V	217-LFBGA	AT91SAM9G20B-CU-ND	19.65	12.34	11.31
ROM	—	64K	—	160	4	2	2	6	8-ch/10-bit	—	400	1.8 ~ 3.3V	324-TFBGA	AT91SAM9G45-CU-ND ***NEW!***	25.05	15.73	14.40
ROM	32K	64K	—	118	4	2	1	1	6-ch/10-bit	—	240	3.0 ~ 3.6V	144-LFBGA	AT91SAM9R64-CU-ND	16.34	10.26	9.41
ROM	32K	64K	—	118	4	2	1	3	6-ch/10-bit	—	240	3.0 ~ 3.6V	217-LFBGA	AT91SAM9RL64-CU-ND	19.05	11.97	10.96
Flash	128K	16K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	217-BGA	AT91SAM9XE128-CU-ND	19.87	12.48	11.42
Flash	128K	16K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	208-PQFP	AT91SAM9XE128-QU-ND	19.87	12.48	11.42
Flash	256K	32K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	217-BGA	AT91SAM9XE256-CU-ND	22.25	13.98	12.79
Flash	256K	32K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	208-PQFP	AT91SAM9XE256-QU-ND	22.25	13.98	12.79
Flash	512K	32K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	217-BGA	AT91SAM9XE512-CU-ND	26.98	16.95	15.51
Flash	512K	32K	32K	96	4	2	2	2	4-ch/10-bit	—	240	1.65 ~ 1.95V	208-PQFP	AT91SAM9XE512-QU-ND	26.98	16.95	15.51
ROM	—	64K	64K	160	4	2	2	6	8-ch/10-bit	—	400	1.8 ~ 3.3V	324-TFBGA	AT91SAM9M10-CU-ND ***NEW!***	31.78	19.96	18.28

AT91 ARM® Thumb® Evaluation Kits

These kits are complete low-cost evaluation platforms, which enable real-time code development and exploration of the AT91 ARM Thumb microcontrollers. The kits include: • Sample microcontroller • Evaluation Board with the Angel™ debug monitor • AT91 Getting Started CD-ROM with data sheets and examples • DB9 serial cable • 2.1mm power jack (power supply not included) • Evaluation copies of compilers and debuggers from Green Hills and ARM • SRAM • Flash • 2 Serial ports • Reset button and controller • Push buttons • LEDs • 20-pin JTAG ICE interface connector • Voltage regulation • Clock generator • Board self-test program • Current consumption measurement capability • Expansion slots for add-on cards with user specific memories and peripherals

AT91EB40A-ND	Evaluation Kit for the AT91R40008	$208.00
AT91EB55-ND	Evaluation Kit for the AT91M55800A	$260.00
AT91RM3400-DK-ND	Development Kit for the AT91RM3400	$1950.00
AT91SAM7A1-EK-ND	Evaluation Board for AT91SAM7A1	$600.00
AT91SAM7A3-EK-ND	Evaluation Board for AT91SAM7A3	$208.00
AT91SAM7L-STK-ND	Evaluation Kit for ART91SAM7L — ***RoHS Compliant***	$104.00
AT91SAM7SE-EK-ND	Evaluation Board for the AT91SAM7SE — ***RoHS Compliant***	$208.00
AT91SAM7S-EK-ND	Evaluation Kit for AT91SAM7S	$104.00
AT91SAM7X-EK-ND	Evaluation Kit for AT91SAM7X256/128	$208.00
AT91SAM9G20-EK-ND	Evaluation Kit for AT91SAM9G20 — ***RoHS Compliant***	$520.00
AT91SAM9RL-EK-ND	Evaluation Kit for AT91SAM9RL — ***RoHS Compliant***	$780.00
AT91SAM9XE-EK-ND	Evaluation Kit for AT91SAM9XE — ***RoHS Compliant***	$520.00
AT91SAM9260-EK-ND	Evaluation Kit for AT91SAM9260 — ***RoHS Compliant***	$520.00
AT91SAM9261-EK-ND	Evaluation Kit for AT91SAM926EJ-S — ***RoHS Compliant***	$780.00
AT91SAM-ICE-ND	Emulator for AT91 ARM7 / ARM9	$104.00
AT91SAM9263-EK-ND	Evaluation Kit for AT91SAM9263 — ***RoHS Compliant***	$884.00
ATSAM3U-EK-ND	***NEW!*** Evaluation Kit for AT91SAM3U — ***RoHS Compliant***	$206.96
AT91SAM9G10-EK-ND	***NEW!*** Evaluation Kit for SAM9G10 — ***RoHS Compliant***	$780.00
AT91SAM9G45-EKES-ND	***NEW!*** Evaluation Kit for AT91SAM9G45 — ***RoHS Compliant***	$780.00
AT91SAM9M10-G45-EK-ND	***NEW!*** Evaluation Kit for AT91SAM9M10 / 9G45 — ***RoHS Compliant***	$780.00

ATMEL FPSLIC® — Field Programmable System Level Integrated Circuit

FPSLIC — PGA + AVR in one Package! The AT94K Series (FPSLIC family) is a combination of the popular Atmel AT40K Series SRAM FPGAs and the high-performance Atmel AVR 8-bit RISC microcontroller with standard peripherals.
• 2K ~ 18.4Kbits of Distributed Single/Dual Port FPGA User SRAM • High-performance DSP Optimized FPGA Core Cell • Dynamically Reconfigurable In-System – FPGA Configuration Access • FPGA Macro Library of Custom Peripherals • 16 FPGA Supplied Internal Interrupts to AVR • Up to Four External Interrupts to AVR • 8 Global FPGA Clocks: • 2 FPGA Clocks Driven from AVR Logic • FPGA Global Clock Access Available from FPGA Core
Features: • Timer/Counters 8/16-bit: 2/1 • Watchdog Timer • UART: 2 • TWI (I2C) • PWM: 3 • JTAG • Clock Speed: 25MHz • V_{CC}: 3.0V ~ 3.6V

Gates	Core Cells	FPGA SRAM Bytes	Registers	I/O	AVR Program Memory Type	AVR Memory Size		AVR I/O Pins	ISP	Operating Temperature	Package	Digi-Key Part No.	Price Each		
						RAM Bytes	EEPROM Bytes						1	25	100
5K	256	2048	436	46	ROMless	20K	—	8	—	0 ~ 70°C	84-PLCC	AT94K05AL-25AJC-ND	11.70	11.25	10.80
	256	2048	436	46	ROMless	20K	—	8	—	-40 ~ 85°C	84-PLCC	AT94K05AL-25AJI-ND	13.46	12.94	12.42
	256	2048	436	82	ROMless	20K	—	8	—	0 ~ 70°C	144-LQFP	AT94K05AL-25BQC-ND	12.29	11.82	11.34
	256	2048	436	82	ROMless	20K	—	8	—	-40 ~ 85°C	144-LQFP	AT94K05AL-25BQI-ND	14.89	14.32	13.74
	256	2048	436	96	ROMless	20K	—	8	—	0 ~ 70°C	208-PQFP	AT94K05AL-25DQC-ND	14.30	13.75	13.20
	256	2048	436	96	ROMless	20K	—	8	—	-40 ~ 85°C	208-PQFP	AT94K05AL-25DQI-ND	16.38	15.75	15.12
	256	2048	436	—	EEPROM	20K	256K	8	Yes	-40 ~ 85°C	144-LQFP	AT94S05AL-25BQU-ND◆	17.20	12.07	11.24
10K	576	4096	846	46	ROMless	36K	—	16	—	0 ~ 70°C	84-PLCC	AT94K10AL-25AJC-ND	19.50	18.75	18.00
	576	4096	846	46	ROMless	36K	—	16	—	-40 ~ 85°C	84-PLCC	AT94K10AL-25AJI-ND	22.43	21.57	20.70
	576	4096	846	58	ROMless	36K	—	16	—	0 ~ 70°C	100-TQFP	AT94K10AL-25AQC-ND	20.48	19.69	18.90
	576	4096	846	58	ROMless	36K	—	16	—	-40 ~ 85°C	100-TQFP	AT94K10AL-25AQI-ND	23.60	22.69	21.78
	576	4096	846	84	ROMless	36K	—	16	—	-40 ~ 85°C	144-LQFP	AT94K10AL-25BQU-ND◆	32.25	22.62	21.06
	576	4096	846	84	EEPROM	36K	512K	16	Yes	-40 ~ 85°C	144-LQFP	AT94S10AL-25BQU-ND◆	44.29	31.05	28.92
	576	4096	846	137	EEPROM	36K	512K	16	Yes	0 ~ 70°C	256-CABGA	AT94S10AL-25DGC-ND	15.08	14.50	13.92
40K	2304	18432	2862	84	ROMless	36K	—	16	—	-40 ~ 85°C	144-LQFP	AT94K40AL-25BQU-ND◆	43.00	30.16	28.08
	2304	18432	2862	162	EEPROM	36K	1024K	16	Yes	0 ~ 70°C	256-CABGA	AT94S40AL-25DGC-ND	49.34	47.44	45.54
	2304	18432	2862	162	EEPROM	36K	1024K	16	Yes	-40 ~ 85°C	256-CABGA	AT94S40AL-25DGI-ND	56.75	54.57	52.38

◆ *RoHS Compliant*

AVR® for USB

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O	USB Host/ OTG	USB DRAM (Bytes)	USB Full Speed	USB Low Speed	Timers 16-Bit/8-Bit	PWM Channel	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	BOD	WDT	Int. RC	V_{CC}	Clock Speed (MHz)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
8	512	512	22	—	176	Y	—	1/1	5	1	1	—	Y	—	Y	Y	Y	2.7 ~ 5.5V	16	32-QFN	-40 ~ 85°C	AT90USB82-16MU-ND	3.70	2.33	2.13
16	512	512	22	—	176	Y	—	1/1	5	1	1	—	Y	—	Y	Y	Y	2.7 ~ 5.5V	16	32-QFN	-40 ~ 85°C	AT90USB162-16MURCT-ND‡	3.66	2.48	2.24
128	4K	8K	48	1	832	Y	Y	2/2	8	1	1	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	AT90USB1287-AU-ND	12.92	8.12	7.42
128	4K	8K	48	1	832	Y	Y	2/2	8	1	1	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-QFN	-40 ~ 85°C	AT90USB1287-MU-ND	12.92	8.12	7.42

‡ Cut Tape

Kits

ATAVRUSBRF01-ND	ATAVRUSBRF01 Quick Start Kit	**$71.76**
AT90USBKEY2-ND	Evaluation Kit for AT90USB	**$31.19**
ATSTK526-ND	Starter Kit for AT90USB82/162	**$206.96**
ATEVK525-ND	Extension Board Kit for STK525	**$156.00**

AVR® Battery Management

Li-ion Cells	Flash (KBytes)	EEPROM (Bytes)	SRAM	I/O	FET Type	Battery Protection	ADC 12-Bit (Channels)	CC-ADC	JTAG	V_{CC}	Clock Speed (MHz)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
2 ~ 4	40	512	2K	18	P-Ch.	Y	10	18-Bit	Y	4.0 ~ 25V	1	48-LQFP	-30 ~ 85°C	ATMEGA406-1AAU-ND	9.79	6.15	5.62

AVR® for LCD

Flash (KBytes)	EEPROM (Bytes)	SRAM	I/O	LCD	Timers 16-Bit/ 8-Bit	PWM (Ch.)	RTC	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	BOD	WDT	Int. RC	HW MULT	V_{CC}	Clock Speed (MHz)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
16	512	1K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	1	64-QFN	-40 ~ 85°C	ATMEGA169V-1MC-ND	6.24	6.00	5.76
	512	1K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	ATMEGA169P-16AU-ND◆	7.12	4.48	4.09
	512	1K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	64-TQFP	-40 ~ 85°C	ATMEGA169PV-8AU-ND◆	7.12	4.48	4.09
	512	1K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	64-QFN	-40 ~ 85°C	ATMEGA169PV-8MCU-ND◆	6.21	3.91	3.47
	512	1K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	64-QFN	-40 ~ 85°C	ATMEGA169PV-8MU-ND◆	7.12	4.48	4.09
32	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	ATMEGA329-16AU-ND◆	7.61	4.78	4.35
	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	64-TQFP	-40 ~ 85°C	ATMEGA329V-8AU-ND◆	7.61	4.78	4.35
	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	2.7 ~ 5.5V	20	64-TQFP	-40 ~ 85°C	ATMEGA329P-20AU-ND◆	7.61	4.78	4.35
	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	2.7 ~ 5.5V	20	64-QFN	-40 ~ 85°C	ATMEGA329P-20MU-ND◆	7.61	4.78	4.35
	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	10	64-TQFP	-40 ~ 85°C	ATMEGA329PV-10AU-ND◆	7.61	4.78	4.35
	1K	2K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	10	64-QFN	-40 ~ 85°C	ATMEGA329PV-10MU-ND◆	7.61	4.78	4.35
	1K	2K	69	4x40 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	2.7 ~ 5.5V	16	100-TQFP	-40 ~ 85°C	ATMEGA3290-16AU-ND◆	8.64	5.43	4.94
	1K	2K	69	4x40 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	100-TQFP	-40 ~ 85°C	ATMEGA3290V-8AU-ND◆	8.64	5.43	4.94
	1K	2K	69	4x40 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	10	100-TQFP	-40 ~ 85°C	ATMEGA3290PV-10AU-ND◆	8.64	5.43	4.94
64	2K	4K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	ATMEGA649-16AU-ND◆	10.99	6.90	6.27
	2K	4K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	16	64-QFN	-40 ~ 85°C	ATMEGA649-16MU-ND◆	10.99	6.90	6.27
	2K	4K	54	4x25 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	64-QFN	-40 ~ 85°C	ATMEGA649V-8MU-ND◆	10.99	6.90	6.27
	2K	4K	69	4x40 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	16	100-TQFP	-40 ~ 85°C	ATMEGA6490-16AU-ND◆	12.60	7.92	7.57
	2K	4K	69	4x40 seg.	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	1.8 ~ 5.5V	8	100-TQFP	-40 ~ 85°C	ATMEGA6490V-8AU-ND◆	12.60	7.92	7.57

◆ *RoHS Compliant*

Kit

ATAVRDB101-ND	ATAVRDB101 Display Module	**$82.16**

ATMEL AVR® for CAN

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O	CAN	Timers 16-Bit/ 8-Bit	PWM (Ch.)	RTC	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	BOD	WDT	Int. RC	V_{CC}	Clock Speed (MHz)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
32	1K	2K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	AT90CAN32-16AU-ND	6.97	4.38	3.98
32	1K	2K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-QFN	-40 ~ 85°C	AT90CAN32-16MU-ND	6.97	4.38	3.98
64	2K	4K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	AT90CAN64-16AU-ND	8.80	5.53	5.05
64	2K	4K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-QFN	-40 ~ 85°C	AT90CAN64-16MU-ND	8.80	5.53	5.05
128	4K	4K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-TQFP	-40 ~ 85°C	AT90CAN128-16AU-ND	11.07	6.96	6.36
128	4K	4K	53	15	2/2	6+2	Y	1	2	Y	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	64-QFN	-40 ~ 85°C	AT90CAN128-16MU-ND	11.07	6.96	6.36

Kit

ATDVK90CAN1-ND	Development Kit for AT90CAN128 MCU	**$119.60**

AVR® for Lighting and Motor Control

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O	DALI	Timers 16-Bit/ 8-Bit	PWM (Ch.)	SPI	USART	ISP	ADC 10-Bit (Ch.)	BOD	WDT	Int. RC	V_{CC}	Clock Speed (MHz)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
8	512	512	27	Y	1/1	10	1	1	Y	11	Y	Y	Y	2.7 ~ 5.5V	16	32-QFN	-40 ~ 105°C	AT90PWM3-16MQ-ND	3.87	2.43	2.21
8	512	512	27	Y	1/1	10	1	1	Y	11	Y	Y	Y	2.7 ~ 5.5V	16	32-QFN	-40 ~ 105°C	AT90PWM3B-16MU-ND	3.70	2.33	2.13
8	512	512	27	Y	1/1	10	1	1	Y	11	Y	Y	Y	2.7 ~ 5.5V	16	32-SOIC	-40 ~ 105°C	AT90PWM3B-16SU-ND	3.70	2.33	2.13
16	512	1024	19	Y	1/1	7	1	1	Y	8	Y	Y	Y	2.7 ~ 5.5V	16	24-SOIC	-40 ~ 105°C	AT90PWM216-16SU-ND	3.54	2.23	2.04
16	512	1024	27	Y	1/1	10	1	1	Y	11	Y	Y	Y	2.7 ~ 5.5V	16	32-SOIC	-40 ~ 105°C	AT90PWM316-16SU-ND	3.71	2.33	2.21

Kits

ATAVRFBKIT-ND	ATAVRFBKIT Ballast Demo Kit	**$206.96**
ATAVRMC200-ND	ATAVRMC200 AC Induction Motor Control	**$310.96**
ATAVRMC303-ND *NEW!*	Controller Board for 3-Phase BLDC, Brushed DC, Stepper Motor	**$71.76**
ATAVRMC323-ND *NEW!*	BLDC Motor Control Kit with DC Motor	**$279.76**

tinyAVR®

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O Pins	Timers 16-Bit/ 8-Bit	PWM Channels	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	Ana. Comp.	BOD	WDT	Int. RC	Clock Speed	V_{CC}	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100
1	—	32	4	1/—	2	—	—	—	—	8	Y	—	Y	Y	12MHz	1.8 ~ 5.5V	23-SOT	-40 ~ 85°C	ATTINY10-TSHRCT-ND◆‡ ***NEW!***	1.08	.68	.62
	—	32	4	1/—	2	—	—	—	—	8	Y	—	Y	Y	12MHz	1.8 ~ 5.5V	23-SOT	-40 ~ 85°C	ATTINY10-TSHRTR-ND◆† ***NEW!***		2733.12/4,500	
	64	—	6	—/1	—	—	—	—	Y	—	Y	Y	Y	Y	1.2MHz	1.8 ~ 5.5V	8-SOIC	0 ~ 70°C	ATTINY12V-1SC-ND	1.04	1.00	.96
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-MLF®	-40 ~ 85°C	ATTINY13-20MU-ND◆	1.89	1.19	1.08
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-MLF®	-40 ~ 85°C	ATTINY13V-10MU-ND◆	1.89	1.19	1.08
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	10-QFN	-40 ~ 85°C	ATTINY13V-10MMU-ND◆	1.96	1.23	1.11
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY13V-10PU-ND◆	1.91	1.21	1.09
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13V-10SU-ND◆	1.81	1.14	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13V-10SSU-ND◆	1.81	1.14	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13-20SU-ND◆	1.81	1.14	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	10-QFN	-40 ~ 85°C	ATTINY13A-MMU-ND◆	1.95	1.23	1.11
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY13A-MU-ND◆	1.88	1.19	1.08
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-DIP	-40 ~ 85°C	ATTINY13A-PU-ND◆	1.90	1.20	1.09
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13A-SH-ND◆	1.80	1.13	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13A-SSH-ND◆	1.80	1.13	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13A-SSU-ND◆	1.80	1.13	1.04
	64	64	6	—/1	2	—	—	—	Y	4	Y	Y	Y	Y	20MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY13A-SU-ND◆	1.80	1.13	1.04
2	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-MLF®	-40 ~ 85°C	ATTINY2313-20MU-ND◆	2.65	1.67	1.52
	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY2313-20PU-ND◆	2.67	1.68	1.53
	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY2313-20SU-ND◆	2.56	1.62	1.48
	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	30-QFN	-40 ~ 85°C	ATTINY2313V-10MU-ND◆	2.65	1.67	1.52
	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY2313V-10PU-ND◆	2.67	1.68	1.53
	128	128	18	1/1	4	USI	1	USI	Y	—	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY2313V-10SU-ND◆	2.56	1.62	1.48
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY24-20MU-ND◆	2.50	1.58	1.43
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	14-Dip	-40 ~ 85°C	ATTINY24-20PU-ND◆	2.52	1.59	1.44
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	14-SOIC	-40 ~ 85°C	ATTINY24-20SSU-ND◆	2.42	1.52	1.39
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY24V-10MU-ND◆	2.50	1.58	1.43
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	14-Dip	-40 ~ 85°C	ATTINY24V-10PU-ND◆	2.52	1.59	1.44
	128	128	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	14-SOIC	-40 ~ 85°C	ATTINY24V-10SSU-ND◆	2.42	1.52	1.39
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY25-20MU-ND◆	1.98	1.25	1.13
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY25-20PU-ND◆	2.00	1.26	1.14
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY25-20SU-ND◆	1.89	1.19	1.09
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY25-20SSU-ND◆	1.89	1.19	1.09
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY25V-10MU-ND◆	1.98	1.25	1.13
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY25V-10PU-ND◆	2.00	1.26	1.14
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY25V-10SU-ND◆	1.89	1.19	1.09
	128	128	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY25V-10SSU-ND◆	1.89	1.19	1.09
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	16MHz	4.5 ~ 5.5V	20-QFN	0 ~ 70°C	ATTINY26-16MC-ND	1.50	1.44	1.38
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	16MHz	4.5 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY26-16MU-ND◆	2.95	1.86	1.70
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	16MHz	4.5 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY26-16PU-ND◆	3.06	1.92	1.75
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	16MHz	4.5 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY26-16SU-ND◆	2.95	1.86	1.70
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	8MHz	2.7 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY26L-8MU-ND◆	2.95	1.86	1.70
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	8MHz	2.7 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY26L-8PU-ND◆	3.06	1.92	1.75
	128	128	16	—/2	2	USI	—	USI	Y	11	Y	Y	Y	Y	8MHz	2.7 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY26L-8SU-ND◆	2.95	1.86	1.70
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY261-20MU-ND◆	2.80	1.76	1.58
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY261-20PU-ND◆	2.90	1.83	1.63
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY261-20SU-ND◆	2.80	1.76	1.58
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY261V-10MU-ND◆	2.80	1.76	1.58
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY261V-10PU-ND◆	2.90	1.83	1.63
	128	128	16	1/1	5	1+USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY261V-10SU-ND◆	2.80	1.76	1.58
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	4MHz	2.7 ~ 5.5V	32-TQFP	-40 ~ 85°C	ATTINY28L-4AU-ND◆	2.90	1.83	1.66
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	4MHz	2.7 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY28L-4MU-ND◆	2.90	1.83	1.66
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	4MHz	2.7 ~ 5.5V	28-Dip	-40 ~ 85°C	ATTINY28L-4PU-ND◆	3.01	1.89	1.71
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	1.2MHz	1.8 ~ 5.5V	32-TQFP	-40 ~ 85°C	ATTINY28V-1AU-ND◆	2.90	1.83	1.66
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	1.2MHz	1.8 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY28V-1MU-ND◆	2.90	1.83	1.66
	—	—	11	—/1	—	—	—	—	—	—	Y	—	Y	Y	1.2MHz	1.8 ~ 5.5V	28-Dip	-40 ~ 85°C	ATTINY28V-1PU-ND◆	3.01	1.89	1.71

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

tinyAVR® *(Cont.)*

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O Pins	Timers 16-Bit/ 8-Bit	PWM Channels	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	Ana. Comp.	BOD	WDT	Int. RC	Clock Speed	V_{CC}	Package	Temperature Range	Digi-Key Part No.	Price Each		
																				1	25	100
4	64	256	16	—/2	4	Y	—	—	Y	4	Y	Y	Y	Y	8MHz	0.7 ~ 1.8V	20-QFN	-40 ~ 85°C	ATTINY43U-MU-ND◆ ***NEW!***	2.93	1.84	1.68
	64	256	16	—/2	4	Y	—	—	Y	4	Y	Y	Y	Y	8MHz	0.7 ~ 1.8V	20-SOIC	-40 ~ 85°C	ATTINY43U-SU-ND◆ ***NEW!***	2.84	1.79	1.64
	256	256	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY44A-MU-ND◆	2.49	1.57	1.43
	256	256	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	14-PDIP	-40 ~ 85°C	ATTINY44A-PU-ND◆	2.52	1.58	1.44
	256	256	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	14-SOIC	-40 ~ 85°C	ATTINY44A-SSU-ND◆	2.41	1.52	1.39
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-MLF®	-40 ~ 85°C	ATTINY45-20MU-ND◆	2.29	1.44	1.31
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY45-20PU-ND◆	2.31	1.46	1.32
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY45-20SU-ND◆	2.20	1.39	1.27
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-TSSOP	-40 ~ 85°C	ATTINY45-20XU-ND◆	2.20	1.39	1.27
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-MLF®	-40 ~ 85°C	ATTINY45V-10MU-ND◆	2.29	1.44	1.31
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY45V-10PU-ND◆	2.31	1.46	1.32
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY45V-10SU-ND◆	2.20	1.39	1.27
	256	256	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-TSSOP	-40 ~ 85°C	ATTINY45V-10XU-ND◆	2.20	1.39	1.27
	256	256	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY461-20MU-ND◆	2.95	1.85	1.69
	256	256	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY461-20SU-ND◆	2.95	1.85	1.69
	256	256	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY461V-10SU-ND◆	2.95	1.85	1.69
	64	256	28	1/1	1	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	32-TQFP	-40 ~ 85°C	ATTINY48-AU-ND◆	2.57	1.62	1.48
	64	256	28	1/1	1	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY48-MU-ND◆	2.57	1.62	1.48
	64	256	24	1/1	1	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	28-Dip	-40 ~ 85°C	ATTINY48-PU-ND◆	2.67	1.68	1.53
8	512	512	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY84-20MU-ND◆	2.99	1.88	1.67
	512	512	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	14-Dip	-40 ~ 85°C	ATTINY84-20PU-ND◆	3.01	1.89	1.68
	512	512	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	14-SOIC	-40 ~ 85°C	ATTINY84-20SSU-ND◆	2.90	1.83	1.62
	512	512	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY84V-10MU-ND◆	2.99	1.88	1.67
	512	512	12	1/1	4	USI	—	USI	Y	8	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	14-SOIC	-40 ~ 85°C	ATTINY84V-10SSU-ND◆	2.90	1.83	1.62
	512	512	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-QFN	-40 ~ 85°C	ATTINY85-20MU-ND◆	2.24	1.41	1.33
	512	512	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY85-20PU-ND◆	2.26	1.42	1.34
	512	512	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY85-20SU-ND◆	2.15	1.35	1.29
	512	512	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-Dip	-40 ~ 85°C	ATTINY85V-10PU-ND◆	2.26	1.42	1.34
	512	512	6	—/2	4	USI	—	USI	Y	4	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	8-SOIC	-40 ~ 85°C	ATTINY85V-10SU-ND◆	2.15	1.35	1.29
	512	512	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY861-20MU-ND◆	3.03	1.91	1.70
	512	512	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	20MHz	2.7 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY861-20SU-ND◆	3.03	1.91	1.70
	512	512	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY861V-10MU-ND◆	3.03	1.91	1.70
	512	512	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-Dip	-40 ~ 85°C	ATTINY861V-10PU-ND◆	3.14	1.98	1.76
	512	512	16	1/1	5	USI	—	USI	Y	11	Y	Y	Y	Y	10MHz	1.8 ~ 5.5V	20-SOIC	-40 ~ 85°C	ATTINY861V-10SU-ND◆	3.03	1.91	1.70
	64	512	24	1/1	2	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	28-Dip	-40 ~ 85°C	ATTINY88-PU-ND◆	2.96	1.87	1.70
	64	512	28	1/1	2	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	32-TQFP	-40 ~ 85°C	ATTINY88-AU-ND◆	2.86	1.80	1.64
	64	512	28	1/1	2	Y	—	Y	Y	8	Y	Y	Y	Y	12MHz	1.8 ~ 5.5V	32-QFN	-40 ~ 85°C	ATTINY88-MU-ND◆	2.86	1.80	1.64

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

megaAVR®

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O	Timers 16/8-bit	PWM Channels	RTC	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	Ana. Comp.	BOD	WDT	Int. RC	HW MULT	V_{CC}	Clock Speed	Package	Temperature Range	Digi-Key Part No.	Price Each		
																						1	25	100
4	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-TQFP	-40 ~ 85°C	ATMEGA48-20AU-ND◆	2.73	1.72	1.60
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-QFN	-40 ~ 85°C	ATMEGA48-20MU-ND◆	2.73	1.72	1.60
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	28-QFN	-40 ~ 85°C	ATMEGA48-20MMU-ND◆	2.86	1.80	1.66
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	28-Dip	-40 ~ 85°C	ATMEGA48-20PU-ND◆	2.84	1.79	1.65
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-TQFP	-40 ~ 85°C	ATMEGA48V-10AU-ND◆	2.73	1.72	1.60
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-QFN	-40 ~ 85°C	ATMEGA48V-10MU-ND◆	2.73	1.72	1.60
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	28-Dip	-40 ~ 85°C	ATMEGA48V-10PU-ND◆	2.84	1.79	1.65
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-TQFP	-40 ~ 85°C	ATMEGA48P-20AU-ND◆	3.05	1.92	1.75
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-QFN	-40 ~ 85°C	ATMEGA48P-20MU-ND◆	3.05	1.92	1.75
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	28-Dip	-40 ~ 85°C	ATMEGA48P-20PU-ND◆	3.15	1.99	1.81
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-TQFP	-40 ~ 85°C	ATMEGA48PV-10AU-ND◆	3.05	1.92	1.75
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-QFN	-40 ~ 85°C	ATMEGA48PV-10MU-ND◆	3.05	1.92	1.75
	256	512	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	28-Dip	-40 ~ 85°C	ATMEGA48PV-10PU-ND◆	3.15	1.99	1.81
8	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	28-Dip	-40 ~ 85°C	ATMEGA8-16PU-ND◆	3.66	2.30	2.14
	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	28-Dip	-40 ~ 85°C	ATMEGA8L-8PU-ND◆	3.66	2.30	2.14
	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	32-TQFP	-40 ~ 85°C	ATMEGA8-16AU-ND◆	3.55	2.23	2.08
	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	32-QFN	-40 ~ 85°C	ATMEGA8-16MU-ND◆	3.55	2.23	2.08
	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	32-TQFP	-40 ~ 85°C	ATMEGA8L-8AU-ND◆	3.55	2.23	2.08
	512	1K	23	1/2	3	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	32-QFN	-40 ~ 85°C	ATMEGA8L-8MU-ND◆	3.55	2.23	2.08
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-TQFP	-40 ~ 85°C	ATMEGA88PA-AU-ND◆	3.57	2.25	2.05
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	32-QFN	-40 ~ 85°C	ATMEGA88PA-MU-ND◆	3.57	2.25	2.05
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	28-Dip	-40 ~ 85°C	ATMEGA88PA-PU-ND◆	3.68	2.31	2.11
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA8515-16AU-ND◆	3.76	2.36	2.16
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-PLCC	-40 ~ 85°C	ATMEGA8515-16JU-ND◆	3.87	2.43	2.21
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA8515-16MU-ND◆	3.76	2.36	2.16
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	40-Dip	-40 ~ 85°C	ATMEGA8515-16PU-ND◆	3.87	2.43	2.21
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-TQFP	-40 ~ 85°C	ATMEGA8515L-8AU-ND◆	3.76	2.36	2.16
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	0 ~ 70°C	ATMEGA8515L-8MC-ND	3.19	3.07	2.94
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA8515L-8MU-ND◆	3.76	2.36	2.16
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	40-Dip	-40 ~ 85°C	ATMEGA8515L-8PU-ND◆	3.87	2.43	2.21
	512	512	35	1/1	3	—	1	1	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-PLCC	-40 ~ 85°C	ATMEGA8515L-8JU-ND◆	3.87	2.43	2.21
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA8535-16AU-ND◆	4.04	2.54	2.32
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-PLCC	-40 ~ 85°C	ATMEGA8535-16JU-ND◆	4.15	2.61	2.38
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA8535-16MI-ND	3.45	3.32	3.18
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	40-Dip	-40 ~ 85°C	ATMEGA8535-16PU-ND◆	4.15	2.61	2.38
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-TQFP	-40 ~ 85°C	ATMEGA8535L-8AU-ND◆	4.04	2.54	2.32
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-PLCC	-40 ~ 85°C	ATMEGA8535L-8JU-ND◆	4.15	2.61	2.38
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA8535L-8MU-ND◆	4.04	2.54	2.32
	512	512	32	1/2	4	—	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	40-Dip	-40 ~ 85°C	ATMEGA8535L-8PU-ND◆	4.15	2.61	2.38

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

megaAVR® *(Cont.)*

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O	Timers 16/8-bit	PWM Channels	RTC	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	Ana. Comp.	BOD	WDT	Int. RC	HW MULT	V_{CC}	Clock Speed	Package	Temperature Range	Digi-Key Part No.	Price Each		
																						1	25	100
16	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA16-16AU-ND◆	6.73	4.23	3.84
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA16-16MU-ND◆	6.73	4.23	3.84
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	40-Dip	-40 ~ 85°C	ATMEGA16-16PU-ND◆	6.84	4.30	3.90
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-TQFP	-40 ~ 85°C	ATMEGA16L-8AU-ND◆	6.73	4.23	3.84
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	0 ~ 70°C	ATMEGA16L-8MC-ND	3.97	3.82	3.66
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA16L-8MI-ND	3.97	3.82	3.66
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA16L-8MU-ND◆	6.73	4.23	3.84
	512	1K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	40-Dip	-40 ~ 85°C	ATMEGA16L-8PU-ND◆	6.84	4.30	3.90
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA162-16AU-ND◆	6.67	4.19	3.78
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA162-16MU-ND◆	6.67	4.19	3.78
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	40-Dip	-40 ~ 85°C	ATMEGA162-16PU-ND◆	6.77	4.26	3.83
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-TQFP	-40 ~ 85°C	ATMEGA162V-8AU-ND◆	6.67	4.19	3.78
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA162V-8MI-ND	4.10	3.94	3.78
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA162V-8MU-ND◆	6.67	4.19	3.78
	512	1K	35	2/2	6	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	40-Dip	-40 ~ 85°C	ATMEGA162V-8PU-ND◆	6.77	4.26	3.83
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	32-TQFP	-40 ~ 85°C	ATMEGA168-20AU-ND◆	4.32	2.72	2.48
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	32-QFN	-40 ~ 85°C	ATMEGA168-20MU-ND◆	4.32	2.72	2.48
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	28-Dip	-40 ~ 85°C	ATMEGA168-20PU-ND◆	4.43	2.79	2.53
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-TQFP	-40 ~ 85°C	ATMEGA168V-10AU-ND◆	4.32	2.72	2.48
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-QFN	-40 ~ 85°C	ATMEGA168V-10MU-ND◆	4.32	2.72	2.48
	512	1K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	28-Dip	-40 ~ 85°C	ATMEGA168V-10PU-ND◆	4.43	2.79	2.53
	512	1K	54	1/2	4	Y	1	2	—	Y	—	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA169L-8MI-ND	6.67	6.42	6.16
32	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.0 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA32-16AU-ND◆	8.17	5.13	4.66
	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.0 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA32-16MU-ND◆	8.17	5.13	4.66
	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	4.0 ~ 5.5V	16MHz	40-Dip	-40 ~ 85°C	ATMEGA32-16PU-ND◆	8.28	5.20	4.71
	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	44-TQFP	-40 ~ 85°C	ATMEGA32L-8AU-ND◆	8.17	5.13	4.66
	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	44-QFN	-40 ~ 85°C	ATMEGA32L-8MU-ND◆	8.17	5.13	4.66
	1K	2K	32	1/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	40-Dip	0 ~ 70°C	ATMEGA32L-8PU-ND◆	8.28	5.20	4.71
	1K	1K	22	1/1	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	32-TQFP	-40 ~ 85°C	ATMEGA32U2-AU-ND◆ ***NEW!***	4.40	2.77	2.64
	1K	2.5K	26	2/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA32U4-AU-ND◆ ***NEW!***	6.04	3.79	3.47
	1K	2.5K	26	2/2	4	Y	1	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA32U4-MU-ND◆ ***NEW!***	6.04	3.79	3.47
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA325-16AU-ND◆	6.88	4.32	3.93
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA325-16MU-ND◆	6.88	4.32	3.93
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA325V-8AU-ND◆	6.88	4.32	3.93
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA325V-8MU-ND◆	6.88	4.32	3.93
	1K	2K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	100-TQFP	-40 ~ 85°C	ATMEGA3250-16AU-ND◆	7.25	4.55	4.14
	1K	2K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-TQFP	-40 ~ 85°C	ATMEGA3250V-8AU-ND◆	7.25	4.55	4.14
	1K	2K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-TQFP	-40 ~ 85°C	ATMEGA328P-AU-ND◆	4.87	3.06	2.80
	1K	2K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	32-QFN	-40 ~ 85°C	ATMEGA328P-MU-ND◆	4.87	3.06	2.80
	1K	2K	23	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	28-PDIP	-40 ~ 85°C	ATMEGA328P-PU-ND◆	4.98	3.13	2.85
64	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA64A-AU-ND◆ ***NEW!***	7.33	4.61	4.21
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA64-16AU-ND◆	11.83	7.43	7.00
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA64-16MI-ND	7.22	6.94	6.66
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA64-16MU-ND◆	11.83	7.43	7.00
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA64L-8AU-ND◆	11.83	7.43	7.00
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-QFN	0 ~ 70°C	ATMEGA64L-8MC-ND	7.22	6.94	6.66
	2K	4K	54	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA64L-8MU-ND◆	11.83	7.43	7.00
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-TQFP	-40 ~ 85°C	ATMEGA644V-10AU-ND◆	7.87	4.95	4.49
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-QFN	-40 ~ 85°C	ATMEGA644V-10MU-ND◆	7.87	4.95	4.49
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	40-Dip	-40 ~ 85°C	ATMEGA644V-10PU-ND◆	7.98	5.01	4.55
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-TQFP	-40 ~ 85°C	ATMEGA644-20AU-ND◆	7.87	4.95	4.49
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-QFN	-40 ~ 85°C	ATMEGA644-20MU-ND◆	7.87	4.95	4.49
	2K	4K	32	1/2	6	Y	1+USART	1	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	40-Dip	-40 ~ 85°C	ATMEGA644-20PU-ND◆	7.98	5.01	4.55
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	44-TQFP	-40 ~ 85°C	ATMEGA644PA-AU-ND◆ ***NEW!***	7.39	4.65	4.25
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	44-VQFN	-40 ~ 85°C	ATMEGA644PA-MU-ND◆ ***NEW!***	7.39	4.65	4.25
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	20MHz	40-PDIP	-40 ~ 85°C	ATMEGA644PA-PU-ND◆ ***NEW!***	7.50	4.71	4.30
	2K	4K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA645-16AU-ND◆	9.01	5.66	5.14
	2K	4K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA645V-8AU-ND◆	9.01	5.66	5.14
	2K	4K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA645V-8MU-ND◆	9.01	5.66	5.14
	2K	4K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	16MHz	100-TQFP	-40 ~ 85°C	ATMEGA6450-16AU-ND◆	10.36	6.51	5.92
	2K	4K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-TQFP	-40 ~ 85°C	ATMEGA6450V-8AU-ND◆	10.36	6.51	5.92
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	100-TQFP	-40 ~ 85°C	ATMEGA640-16AU-ND◆	11.80	7.42	6.81
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-TQFP	-40 ~ 85°C	ATMEGA640V-8AU-ND◆	11.80	7.42	6.81
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-CBGA	-40 ~ 85°C	ATMEGA640V-8CU-ND◆	12.88	8.09	7.33
128	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	64-QFN	0 ~ 70°C	ATMEGA128-16MC-ND	9.10	8.75	8.40
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA128-16AU-ND◆	17.21	10.81	9.88
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA128-16MU-ND◆	17.21	10.81	9.88
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA128A-AU-ND◆ ***NEW!***	9.23	5.80	5.30
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA128A-MU-ND◆ ***NEW!***	9.23	5.80	5.30
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA128L-8AU-ND◆	17.21	10.81	9.88
	4K	4K	53	2/2	8	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA128L-8MU-ND◆	17.21	10.81	9.88
	4K	16K	32	2/2	6	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	16MHz	44-TQFP	-40 ~ 85°C	ATMEGA1284P-AU-ND◆	8.03	5.04	4.61
	4K	16K	32	2/2	6	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	16MHz	44-QFN	-40 ~ 85°C	ATMEGA1284P-MU-ND◆	8.03	5.04	4.61
	4K	16K	32	2/2	6	Y	1	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	16MHz	40-PDIP	-40 ~ 85°C	ATMEGA1284P-PU-ND◆	8.13	5.11	4.66
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	100-TQFP	-40 ~ 85°C	ATMEGA1280-16AU-ND◆	16.13	10.13	9.26
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	100-CBGA	-40 ~ 85°C	ATMEGA1280-16CU-ND◆	17.20	10.81	9.78
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-TQFP	-40 ~ 85°C	ATMEGA1280V-8AU-ND◆	16.13	10.13	9.26
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-CBGA	-40 ~ 85°C	ATMEGA1280V-8CU-ND◆	17.20	10.81	9.78
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA1281-16AU-ND◆	13.12	8.24	7.32
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA1281-16MU-ND◆	13.12	8.24	7.32
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA1281V-8AU-ND◆	13.12	8.24	7.32
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA1281V-8MU-ND◆	13.12	8.24	7.32
256	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	100-TQFP	-40 ~ 85°C	ATMEGA2560-16AU-ND◆	17.97	11.29	10.22
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-TQFP	-40 ~ 85°C	ATMEGA2560V-8AU-ND◆	17.97	11.29	10.22
	4K	8K	86	4/2	16	Y	1+USART	4	Y	Y	16	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	100-CBGA	-40 ~ 85°C	ATMEGA2560V-8CU-ND◆	19.05	11.97	10.74
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	64-TQFP	-40 ~ 85°C	ATMEGA2561-16AU-ND◆	17.79	11.17	10.21
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	4.5 ~ 5.5V	16MHz	64-QFN	-40 ~ 85°C	ATMEGA2561-16MU-ND◆	17.79	11.17	10.21
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-TQFP	-40 ~ 85°C	ATMEGA2561V-8AU-ND◆	17.79	11.17	10.21
	4K	8K	54	4/2	10	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-QFN	-40 ~ 85°C	ATMEGA2561V-8MU-ND◆	17.79	11.17	10.21

◆ ***RoHS Compliant***

picoPower™ AVR®

Flash (KBytes)	EEPROM (Bytes)	SRAM (Bytes)	I/O Pins	Timer 16-Bit/ 8-Bit	PWM Ch.	RTC	SPI	USART	TWI (I2C)	ISP	ADC 10-Bit (Ch.)	Ana. Comp.	BOD	WDT	Int. RC	HW MULT	V_{CC}	Clock Speed	Package	Temp. Range	Digi-Key Part No.	Price Each		
																						1	25	100
16	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-TQFP	-40~85°C	ATMEGA164P-20AU-ND	5.49	3.45	3.16
	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-QFN	-40~85°C	ATMEGA164P-20MU-ND	5.49	3.45	3.16
	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	40-Dip	-40~85°C	ATMEGA164P-20PU-ND	5.60	3.52	3.21
	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-TQFP	-40~85°C	ATMEGA164PV-10AU-ND	5.49	3.45	3.16
	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-QFN	-40~85°C	ATMEGA164PV-10MU-ND	5.49	3.45	3.16
	512	1K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	40-Dip	-40~85°C	ATMEGA164PV-10PU-ND	5.60	3.52	3.21
	512	1K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-TQFP	-40~85°C	ATMEGA165P-16AU-ND	6.41	4.03	3.68
	512	1K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	16MHz	64-QFN	-40~85°C	ATMEGA165P-16MU-ND	6.41	4.03	3.68
	512	1K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-TQFP	-40~85°C	ATMEGA165PV-8AU-ND	6.41	4.03	3.68
	512	1K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	8MHz	64-QFN	-40~85°C	ATMEGA165PV-8MU-ND	6.41	4.03	3.68
32	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-TQFP	-40~85°C	ATMEGA324P-20AU-ND	7.05	4.43	4.05
	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-QFN	-40~85°C	ATMEGA324P-20MU-ND	7.05	4.43	4.05
	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	40-Dip	-40~85°C	ATMEGA324P-20PU-ND	7.16	4.50	4.10
	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-TQFP	-40~85°C	ATMEGA324PV-10AU-ND	7.05	4.43	4.05
	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-QFN	-40~85°C	ATMEGA324PV-10MU-ND	7.05	4.43	4.05
	1K	2K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	40-Dip	-40~85°C	ATMEGA324PV-10PU-ND	7.16	4.50	4.10
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	64-TQFP	-40~85°C	ATMEGA325P-20AU-ND	6.99	4.39	3.99
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	64-QFN	-40~85°C	ATMEGA325P-20MU-ND	6.99	4.39	3.99
	1K	2K	54	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	64-TQFP	-40~85°C	ATMEGA325PV-10AU-ND	6.99	4.39	3.99
	1K	2K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	100-TQFP	-40~85°C	ATMEGA3250P-20AU-ND	7.25	4.55	4.14
	1K	2K	69	1/2	4	Y	1+USI	1	USI	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	100-TQFP	-40~85°C	ATMEGA3250PV-10AU-ND	7.25	4.55	4.14
64	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-TQFP	-40~85°C	ATMEGA644P-20AU-ND	8.08	5.08	4.69
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	44-QFN	-40~85°C	ATMEGA644P-20MU-ND	8.08	5.08	4.69
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	2.7 ~ 5.5V	20MHz	40-Dip	-40~85°C	ATMEGA644P-20PU-ND	8.19	5.15	4.74
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	44-TQFP	-40~85°C	ATMEGA644PV-10AU-ND	8.08	5.08	4.69
	2K	4K	32	1/2	6	Y	1+USART	2	Y	Y	8	Y	Y	Y	Y	Y	1.8 ~ 5.5V	10MHz	40-Dip	-40~85°C	ATMEGA644PV-10PU-ND	8.19	5.15	4.74

AVR® XMEGA High Performance Low Power Flash Microcontrollers

Operating Temperature: Industrial: -40°C ~ 85°C

Memory Size (Bytes)			DMA Channels	I/O Pins	Frequency Max. (MHz)	VCC (V)	16-bit Timers	PWM Channels	SPI	TWI	USART	12-bit A/D Channels	12-bit D/A Channels	Package	Digi-Key Part No.	Price Each		
Flash	EEPROM	SRAM														1	25	100
16K	1K	2K	4	36	32	1.6 ~ 3.6	5	16	2	2	5	12	2	44-TQFP	ATXMEGA16A4-AU-ND	5.20	3.27	2.99
	1K	2K	4	36	32	1.6 ~ 3.6	5	16	2	2	5	12	2	44-QFN	ATXMEGA16A4-MH-ND	5.20	3.27	2.99
32K	2K	4K	4	36	32	1.6 ~ 3.6	5	16	2	2	5	12	2	44-TQFP	ATXMEGA32A4-AU-ND	5.88	3.70	3.38
	2K	4K	4	36	32	1.6 ~ 3.6	5	16	2	2	5	12	2	44-QFN	ATXMEGA32A4-MH-ND	5.88	3.70	3.38
64K	2K	4K	4	78	32	1.6 ~ 3.6	8	24	4	4	8	16	4	100-TQFP	ATXMEGA64A1-AU-ND	8.06	5.07	4.51
	2K	4K	4	78	32	1.6 ~ 3.6	8	24	4	4	8	16	4	100-CBGA	ATXMEGA64A1-CU-ND	9.14	5.74	5.10
	2K	4K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-TQFP	ATXMEGA64A3-AU-ND	8.21	5.16	4.72
	2K	4K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-QFN	ATXMEGA64A3-MH-ND	8.21	5.16	4.72
128K	2K	8K	4	78	32	1.6 ~ 3.6	8	24	4	4	8	16	4	100-TQFP	ATXMEGA128A1-AU-ND	10.20	6.41	5.86
	2K	8K	4	78	32	1.6 ~ 3.6	8	24	4	4	8	16	4	100-CBGA	ATXMEGA128A1-CU-ND	11.27	7.08	6.38
	2K	8K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-TQFP	ATXMEGA128A3-AU-ND	10.43	6.56	5.99
	2K	8K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-QFN	ATXMEGA128A3-MH-ND	10.43	6.56	5.99
192K	4K	16K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-TQFP	ATXMEGA192A3-AU-ND	11.52	7.24	6.62
	4K	16K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-QFN	ATXMEGA192A3-MH-ND	11.52	7.24	6.62
256K	4K	16K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-TQFP	ATXMEGA256A3-AU-ND	13.55	8.51	7.78
	4K	16K	4	50	32	1.8 ~ 3.6	7	22	4	4	7	16	2	64-QFN	ATXMEGA256A3-MH-ND	13.55	8.51	7.78

Adapters

The AVR® ICE50 is a top-of-the-line development tool for complete in-circuit emulation of most AVR 8-bit RISC microcontrollers. The ICE50 and the AVR Studio4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier.

Description	Digi-Key Part No.	Price Each
ICE50 Extension Memory Card	ATICE50MEM-ND	240.50
Replacement POD for ICE40, ICE50	ATICE50POD-ND	455.00
Probe with Flex Cables	ATICE50PROBE-ND	79.30
Personality Adapter for ATmega169	ATADAP169_TOP-ND	195.00
Personality Adapter for ATmega8	ATADAPMEGA8-ND	40.30
Personality Adapter for ATmega32	ATADAPMEGA32-ND	40.30

Description	Digi-Key Part No.	Price Each
Personality Adapter for ATmega162	ATADAPMEGA162-ND	40.30
Personality Adapter for ATtiny2313	ATADAPT2313-ND	40.30
Personality Adapter for ATtiny13	ATADAPTINY13-ND	40.30
Personality Adapter for ATtiny26	ATADAPTINY26-ND	40.30
ICE50 Adapter Test	ATADAPTEST-ND	40.30

ATSTK500 Starter Kit

The ATSTK500 is a starter kit and development system for Atmel's AVR flash microcontrollers. The ATSTK500 gives designers a quick start to develop code on the AVR combined with features for using the starter kit to develop prototypes and test new designs. The ATSTK500 interfaces with AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

ATSTK500-ND **$82.16**

Description	Digi-Key Part No.	Price Each
Module for STK520	ATSTK520-ND	82.16
CAN Extension for STK500/501	ATADAPCAN01-ND	19.76
Starter Kit for AT90USB	ATSTK525-ND	206.96
Starter Kit for AT90USB82/162	ATSTK526-ND	206.96
Extension Board Kit for STK525	ATEVK525-ND	156.00

BC100 Development Kit

The BC100 is a reference design/development kit that targets battery charging. The kit can be used to charge various battery types, as long as the requirements to charging voltage and currents are within the output range that the kit offers (1.2V ~ 38V, 5A Max.) The kit can be used to develop applications such as battery chargers, battery backup, un-interruptable power supply and switch mode power supply.

ATAVRBC100-ND **$206.96**

USB Development Kit

Description	Digi-Key Part No.	Price Each
USB Host/Function Development Kit for AT43USB380 OTG/Host FunctionProcessor	AT43DK380-PDC2-ND	1298.70

Evaluation Kits

Description	Digi-Key Part No.	Price Each
Butterfly Evaluation Kit	ATAVRBFLY-ND	20.79

Programmer/Emulator

Description	Digi-Key Part No.	Price Each
ISP In-System Programmer	ATAVRISP2-ND	35.36
JTAGICE Emulator for AVR® 2/OCD	ATJTAGICE2-ND	310.96
Probe JTAGICE with Flex Cables	ATJTAGPROBE-ND	40.56
ATAVRONEKIT Debugger/Programmer	ATAVRONEKIT-ND	622.96

AVR® Dragon™

The AVR Dragon supports all programming modes for the AVR device family. The Dragon is also capable of full emulation support for devices with 32KB or less flash memory. Firmware for the device is easily upgraded using AVR Studio® to support new devices.

ATAVRDRAGON-ND **$50.96**

AVR®32 32-Bit Microcontrollers

Features: • Core Power Supply Voltage: 1.65V ~ 1.95V • I/O Power Supply Voltage: 3.0V ~ 3.6V
• Operating Temperature: -40°C ~ 85°C

MIPS	SRAM (KBytes)	Flash (KBytes)	Cache (Inst/Data)	I/O Pins	USB	Ethernet MAC 10/100	Ext. Bus Interface	UART	Frequency Max. (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100
210	32	—	16KB/16KB	160	High-Speed	2	Yes	4	150	256-CTBGA	AT32AP7000-CTUT-ND	21.82	14.56	13.41
	32	—	16KB/16KB	85	High-Speed	—	Yes	4	150	196-CBGA	AT32AP7002-CTUT-ND	18.49	12.34	11.37
80	32	128	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0128-ALUT-ND	12.32	7.74	7.08
	32	128	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1128-AUT-ND	11.05	6.94	6.35
	64	256	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0256-ALUT-ND	15.13	9.51	8.69
	64	256	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1256-AUT-ND	13.57	8.52	7.79
	64	256	—	109	Full-Speed + OTG	—	No	4	66	144-LQFP	AT32UC3A3256-ALUT-ND	17.74	11.15	10.19
	64	256	—	109	Full-Speed + OTG	—	No	4	66	144-TBGA	AT32UC3A3256-CTUT-ND	17.96	11.28	10.29
	64	512	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0512-ALUT-ND	17.86	11.22	10.26
	64	512	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0512-ALUR-ND		8286.70/800	
	64	512	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1512-AUT-ND	16.02	10.06	9.20
	64	512	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1512-AUR-ND		9218.55/1,000	
72	16	64	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B064-A2UT-ND	8.44	5.30	4.85
	16	64	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B164-Z1UT-ND	7.87	4.95	4.52
	32	128	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B0128-A2UT-ND	10.20	6.41	5.86
	32	128	—	44	Full-Speed + OTG	—	—	3	60	64-QFN	AT32UC3B0128-Z2UT-ND	10.20	6.41	5.86
	32	128	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B1128-Z1UT-ND	9.63	6.05	5.53
	32	256	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B0256-A2UT-ND	12.52	7.87	7.19
	32	256	—	44	Full-Speed + OTG	—	—	3	60	64-QFN	AT32UC3B0256-Z2UT-ND	12.52	7.87	7.19
	32	256	—	28	Full-Speed	—	—	2	60	48-TQFP	AT32UC3B1256-AUT-ND	10.74	6.75	6.17
	32	256	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B1256-Z1UT-ND	10.74	6.75	6.17

ATEVK1100 Evaluation Kit

The ATEVK1100 is an evaluation kit and development system for the AVR32 AT32UC3A microcontroller. It is equipped with a rich set of peripherals, memory, and makes it easy to try the full potential of the AVR32 devices.

ATEVK1100-ND **$175.76**

ATEVK1101 Evaluation Kit

The ATEVK1101 is an evaluation kit and development system for the AVR32 AT32UC3B microcontroller. It is equipped with a rich set of peripherals, memory, and makes it easy to try the full potential of the AVR32 devices.

ATEVK1101-ND **$123.76**

ATEVK1104 Evaluation Kit

The ATEVK1104 is an evaluation kit for the AT32UC3A3256 which combines Atmel's state-of-the-art AVR32 microcontroller with an unrivalled selection of communication interface like USB device including On-The-Go functionality, SDcard, NAND flash with ECC and stereo 16-bit DAC.

ATEVK1104-ND **$175.76**

ATEVK1105 Evaluation Kit

The ATEVK1105 is an evaluation kit for the AT32UC3A0512 which demonstrates Atmel's state-of-the-art AVR32 microcontroller in Hi-Fi audio decoding and streaming applications. The kit contains reference hardware and software for generic MP3 player docking stations.

ATEVK1105-ND **$186.16**

ATNGW100 Network Gateway Kit

The ATNGW100 is an ideal development board for the AT32AP7000. The ATNGW100 has two Ethernet ports, SD and MMC card reader and connectors for USB and JTAG. The board is preloaded with Linux® and shipped with I/O interface drivers that can be called from your own code.

ATNGW100-ND **$134.16**

NEW! ATEXTWIFI Evaluation Kit

The Wi-Fi Extension Board has an SD card form factor, and connects easily to any 32-bit AVR UC3 evaluation kit with an SD card socket. The Wi-Fi TCP/IP stack is included in the AVR UC3 Software Framework, and supports both SPI and SDIO communications with the Wi-Fi Extension Board.
For use with EVK11xx series development boards

ATEXTWIFI-ND **$206.96**

NEW! ATAVRXPLAIN Evaluation Kit

Xplain is an easy to use evaluation and demonstration kit for ATxmega128A1, offering complete hardware for evaluating the highly accurate analog functionality of the device. The ADC can be used to read a temperature sensor and a potentiometer, and the DAC can be used to generate sound on a mono speaker.
Xplain also demonstrates how to interface external memories; the kit features 8MB SDRAM and 8MB DataFlash connected to the ATxmega128A1. Eight push buttons and eight LEDs are available for user interaction.

ATAVRXPLAIN-ND **$30.16**

ATSTK600 Starter Kit

The Atmel AVR® STK600 is a complete starter kit and development system for the AVR and AVR32 flash microcontrollers. It is designed to give designers a quick start to develop code on the AVR, combined with advanced features for using the starter kit to prototype and test new designs. The STK600 is shipped with a ATmega2560 device board.

ATSTK600-ND **$206.96**

Description	Digi-Key Part No.	Price Each
ATSTK600 Socket and Adapter Boards		
Socket and Adapter Board, 40-PDIP Devices	ATSTK600-DIP40-ND	102.96
Socket and Adapter Board, 44-TQFP Devices	ATSTK600-TQFP44-ND	102.70
Socket and Adapter Board, 100-TQFP Devices	ATSTK600-TQFP100-ND	102.96
Socket and Adapter Board, TinyX3U Devices	ATSTK600-TINYX3U-ND	102.96
Socket and Adapter Board, TQFP32 Devices	ATSTK600-TQFP32-ND	102.96
Socket and Adapter Board, SOIC Devices	ATSTK600-SOIC-ND	102.96
Socket and Adapter Board, 64-TQFP Devices	ATSTK600-TQFP64-2-ND	102.96
Socket Board and Expansion Module, 144-TQFP Devices	ATSTK600-UC3A0X-144-ND	102.96
Socket and Adapter Board, 48-TQFP Devices	ATSTK600-TQFP48-ND	102.96
Socket and Adapter Board, 64-TQFP Devices, 0.8mm Pitch	ATSTK600-TQFP64-ND	102.96
Socket and Adapter Board, Tiny 4/5/9/10 Devices	ATSTK600-ATTINY10-ND ***NEW!***	50.96

Microcontrollers

Operating Temperature: Industrial: -40°C ~ 85°C, Commercial: 0°C ~ 70°C

CAN

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	CAN									1	25	100
4K	256	2K	36	1	Yes	2.0 A & B	No	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC03URLRCT-ND†	8.93	8.59	8.25
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03URDRCT-ND†	9.06	8.72	8.37
	256	2K	36	1	Yes		No	3		40	3.0 ~ 5.5	Industrial	44-PLCC	AT89C51CC03USLRCT-ND†	8.74	8.40	8.07
16K	256	2K	20	1	—	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	32-VQFP	T89C51CC02UARATIM-ND	5.77	5.55	5.33
	256	2K	20	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	64-BGA	T89C51CC01CA7CTIM-ND	6.08	5.85	5.62
	256	2K	20	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	28-SOIC	AT89C51CC02UA-TISUM-ND◆	8.60	6.66	6.24
	256	2K	20	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	28-PLCC	AT89C51CC02UA-SISUM-ND◆	8.60	6.66	6.24
	256	2K	20	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	32-VQFP	AT89C51CC02CA-RATUM-ND◆	8.60	6.66	6.24
	256	2K	20	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	32-VQFP	AT89C51CC02UA-RATUM-ND◆	8.60	6.66	6.24
32K	256	2K	34	1	—	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC01UARLTUM-ND◆	9.57	7.41	6.95
	256	2K	34	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC01CA-RLTUM-ND◆	9.57	7.41	6.95
	256	2K	34	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	44-PLCC	AT89C51CC01CA-SLSUM-ND◆	9.57	7.41	6.95
64K	256	2K	36	1	Yes	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03CRDTIM-ND	7.02	6.75	6.48
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03URDTIM-ND	11.61	8.10	7.13
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03UA-RDTUM-ND◆	11.61	8.99	8.43
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	44-PLCC	AT89C51CC03UASLSUM-ND◆	11.61	8.99	8.43
	256	2K	36	1	Yes		No	3		40	3.0 ~ 5.5	Industrial	44-PLCC	AT89C51CC03CSLRCT-ND†	8.74	8.40	8.07
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	52-PLCC	AT89C51CC03CS3RCT-ND†	8.87	8.53	8.19
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03CRDRCT-ND†	9.06	8.72	8.37
	256	2K	36	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC03CA-RLTUM-ND◆	11.61	8.99	8.43
	256	2K	36	1	—		Yes	3		40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC03UA-RLTUM-ND◆	11.61	8.99	8.43
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	52-PLCC	AT89C51CC03UA-S3SUM-ND◆	11.61	8.99	8.43
	256	2K	36	1	Yes		Yes	3		40	3.0 ~ 5.5	Industrial	52-PLCC	AT89C51CC03CA-S3SUM-ND◆	11.61	8.99	8.43

◆ ***RoHS Compliant*** † Cut Tape

Smart Card

Interface Type	Flash (Kbytes)	Mask ROM (Kbytes)	F.max. (MHz)	VCC (V)	ISP	Package	Digi-Key Part No.	Price Each		
								1	25	100
USB	—	—	—	3.6 ~ 5.5	—	64-VQFP	AT83C22OK103RDTIM-ND	7.28	7.00	6.72
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDTUM-ND◆	11.18	8.44	7.04
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDRUMCT-ND◆†	11.40	8.61	7.17
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDRUMTR-ND◆§	9540.00/1,500		
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122DRDRIMCT-ND†	7.48	7.19	6.90
USB	32	—	16	3.0 ~ 5.5	Yes	64-QFN	AT89C5122D-PSTUM-ND◆	5.85	5.63	5.40
Serial	—	—	16	2.85 ~ 5.5	—	52-PLCC	T85C5121-S3SIL-ND	5.36	5.15	4.95
Serial	—	—	16	2.85 ~ 5.5	—	24-SSOP	T89C5121-ICUIL-ND	5.30	5.10	4.90
—	—	—	48	3.0 ~ 5.5	—	48-VQFP	AT83C26-RKTUL-ND◆	4.13	3.12	2.60

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

Lighting

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	TWI									1	25	100
4K	256	256	2	—	—	—	Yes	-/2	6-ch/	24	3.0 ~ 3.6	Ind.	20-SOIC	AT89EB5114-TGSIL-ND	4.45	4.28	4.11

USB

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	TWI									1	25	100
16K	32K	—	34	1	Master/ Slave	—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	32-QFN	AT89C5130A-PUTUM-ND	6.45	5.00	4.68
	32K	—	34	1		—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	64-VQFP	AT89C5130A-RDTUM-ND◆	7.10	5.50	5.15
	32K	—	34	1		—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	52-PLCC	AT89C5130A-S3SUM-ND◆	8.39	6.49	6.09
32K	256	4K	34	1	Master/ Slave	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	52-PLCC	AT89C5131A-S3SUM-ND◆	8.60	6.66	6.24
	256	4K	34	1		—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	28-SOIC	AT89C5131A-TISIL-ND	10.11	7.05	6.20
64K	2304	—	44	1	Master/ Slave	—	Yes	-/2	8-bit	20	3.0	Ind.	80-TQFP	AT89C5132-ROTUL-ND◆	13.55	10.49	9.83

◆ ***RoHS Compliant***

Single Cycle Core

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	TWI									1	25	100
2K	256	—	15	1 (EUART)	1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind	20-Dip	AT89LP2052-20PU-ND	2.37	1.95	1.84
	256	—	15		1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-SOIC	AT89LP2052-20SU-ND	2.37	1.95	1.84
4K	256	—	15	1 (EUART)	1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind	20-Dip	AT89LP4052-20PU-ND	2.58	2.13	2.00
	256	—	15		1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-SOIC	AT89LP4052-20SU-ND	2.58	2.13	2.00
	256	—	15		1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind	20-TSSOP	AT89LP4052-20XU-ND	2.58	2.13	2.00

General Purpose

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	10 Bit A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	TWI									1	25	100
2K	128	—	15	1	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	20-Dip	AT89C2051-24PU-ND◆	1.68	1.60	1.50
	128	—	15	1	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	20-SOIC	AT89C2051-24SU-ND◆	1.68	1.60	1.50
4K	128	—	15	1	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	20-SOIC	AT89C4051-24SU-ND◆	1.87	1.77	1.67
	128	—	32	1	—	—	Yes	-/2	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89S51-24AU-ND◆	1.87	1.77	1.67
	128	—	32	1	—	—	Yes	-/2	—	24	4.0 ~ 5.5	Ind.	44-PLCC	AT89S51-24JU-ND◆	1.87	1.77	1.67
	128	—	32	1	—	—	Yes	-/2	—	24	4.0 ~ 5.5	Ind.	40-Dip	AT89S51-24PU-ND◆	1.87	1.77	1.67
8K	128	—	34	2	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RE2-SLSUM-ND◆	11.18	8.66	8.12
	256	—	32	1	—	—	Yes	-/3	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89S52-24AU-ND◆	2.06	1.95	1.84

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

(Continued)

Microcontrollers

General Purpose *(Cont.)*

Memory Size (Bytes)			I/O Pins	Serial Communication			WDT	Timer Counter 16-Bits	10 Bit A/D	Clock Speed MHz	VCC (V)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
Program	Ram	EEprom		UART	SPI	TWI									1	25	100
8K	256	—	32	1	—	—	Yes	-/3	—	24	4.0 ~ 5.5	Ind.	44-PLCC	AT89S52-24JU-ND◆	2.06	1.95	1.84
	256	—	32	1	—	—	Yes	-/3	—	24	4.0 ~ 5.5	Ind.	40-Dip	AT89S52-24PU-ND◆	2.06	1.95	1.84
12K	256	2K	32	1	Master/	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	44-TQFP	AT89S8253-24AU-ND◆	4.31	4.07	3.83
	256	2K	32	1	Slave	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	44-PLCC	AT89S8253-24JU-ND◆	4.31	4.07	3.83
16K	256	2K	20	1	—	—	Yes	-/3	10-bit	40	3.0 ~ 5.5	Ind.	32-VQFP	AT89C5115-RATUM-ND◆	9.68	7.49	7.02
	256	2K	20	1	—	—	Yes	-/3		40	3.0 ~ 5.5	Ind.	28-SOIC	T89C5115-TISUM-ND	4.94	4.75	4.56
	1280	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	40-Dip	AT89C51RB2-3CSUM-ND◆	7.53	5.83	5.46
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2-RLTIL-ND	4.37	4.20	4.04
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2-RLTUL-ND◆	8.17	6.33	5.93
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2-RLTUM-ND◆	7.53	5.83	5.46
	1280	—	32	1		—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RB2-SLSIM-ND	7.22	5.04	4.44
	1280	—	32	1		—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RB2-SLSUM-ND◆	7.53	5.83	5.46
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2RLRIMCT-ND†	4.62	4.44	4.26
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2RLRILCT-ND†	8.40	7.03	5.86
20K	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Com.	44-TQFP	AT89LV55-12AC-ND	4.09	3.02	2.70
	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Ind.	44-TQFP	AT89LV55-12AI-ND	2.47	2.38	2.28
	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Com.	44-PLCC	AT89LV55-12JC-ND	4.09	3.02	2.70
	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Com.	40-Dip	AT89LV55-12PC-ND	4.09	3.02	2.70
	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Ind.	40-Dip	AT89LV55-12PI-ND	4.09	3.02	2.70
32K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTIL-ND	5.30	5.10	4.90
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTUL-ND◆	9.03	6.99	6.56
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLTUM-ND◆	8.82	6.83	6.40
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 3.6	Com.	44-PLCC	AT89C51IC2-SLSUL-ND◆	9.03	6.99	6.56
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2SLRIMCT-ND†	5.66	5.44	5.22
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 3.5	Ind.	44-PLCC	AT89C51IC2SLRILCT-ND†	10.29	8.62	7.18
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLRULTR-ND◆§		3354.00/500	
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLRULCT-ND◆†	5.59	5.38	5.16
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2RLRIMCT-ND†	5.79	5.57	5.34
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 3.5	Ind.	44-VQFP	AT89C51IC2RLRILCT-ND†	6.36	6.12	5.88
	1024	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	40-DIP	AT89C51RC2-3CSUM-ND◆	9.46	7.33	6.87
	1024	—	32	1		—	Yes	-/3	—	48	2.7 ~ 3.6	Ind.	44-VQFP	AT89C51RC2-RLTUL-ND◆	9.68	7.49	7.02
	1024	—	32	1		—	Yes	-/3	—	48	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RC2-RLTUM-ND◆	8.60	6.66	6.24
	1024	—	32	1		—	Yes	-/3	—	48	2.7 ~ 3.6	Ind.	44-PLCC	AT89C51RC2-SLSIM-ND	7.74	5.40	4.75
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RC2RLRILCT-ND†	5.93	5.71	5.48
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RC2SLRILCT-ND†	5.72	5.50	5.28
	1280	—	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RC2RLRIMCT-ND†	5.40	5.19	4.98
	256	2K	34	1	—	—	Yes	-/3	—	40	3.0 ~ 5.5	Ind.	44-VQFP	AT89C51AC2-RLTUM-ND◆	10.32	7.99	7.49
64K	2048	2K	32	1	Master/ Slave	—	Yes	-/3	8-ch/ 10-Bit	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ID2-RLTUM-ND◆	12.69	9.82	9.21
	2048	2K	32	1		—	Yes	-/3		40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51ID2-SLSUM-ND◆	12.69	9.82	9.21
	2048	2K	32	1		Yes	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ID2RLRIMCT-ND†	6.83	6.57	6.30
	2048	2K	32	1		Yes	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ID2-RLRUMCT-ND◆†	7.80	7.50	7.20
	2048	2K	32	1		Yes	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51ID2-SLRUMTR-ND◆§		4680.00/500	
	1792	2048	34	1	Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RD2-SLSUM-ND◆	9.03	6.99	6.56
	1792	2048	34	1		—	Yes	-3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RD2-SLRUMCT-ND◆†	9.25	7.16	—
	1792	2048	34	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RD2-SLRUMTR-ND◆§		3354.00/500	
	2304	2K	32	1	Master/ Slave	—	Yes	-/3	8-ch/ 10-bit	60	3.0 ~ 5.5	Ind.	44-PLCC	AT89C51AC3-SLSUM-ND◆	10.75	8.32	7.80
	2304	2K	32	1		—	Yes	-/3		60	3.0 ~ 5.5	Ind.	44-VQFP	AT89C51AC3-RLTUM-ND◆	10.75	8.32	7.80
	2304	2K	32	1		—	Yes	-/3		60	3.0 ~ 5.5	Ind.	52-PLCC	AT89C51AC3-S3SUM-ND◆	10.75	8.32	7.80
	2304	2K	32	1		—	Yes	-/3		60	3.0 ~ 5.5	Ind.	64-VQFP	AT89C51AC3-RDTUM-ND◆	10.75	8.32	7.80
	1792	2048	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ED2-RLTUM-ND◆	10.32	7.99	7.49
	1792	2048	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	64-VQFP	AT89C51ED2-RDTUM-ND◆	10.97	8.49	7.96
	1792	2048	32	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51ED2-SLSUM-ND◆	10.32	7.99	7.49
	1792	2048	48	1		—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	68-PLCC	AT89C51ED2-SMSUM-ND◆	10.97	8.49	7.96
	256	2K	48	1 (EUART)		—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	68-PLCC	T89C51RD2-SMSIM-ND	6.76	6.50	6.24

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

8051 Microcontroller Kits

AT89STK-06 Starter Kit

The AT89STK-06 Starter Kit is dedicated to the T89C51CC01/CC02 and AT89C51CC03 CAN microcontrollers. The AT89STK-06 can also be used for AT89C51AC3, T89C51AC2 and T89C5115 (Flash microcontroller with ADC). For T89C51CC02 CAN and T89C5115, optional adaptor is required: CANADAPT28. The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-06-ND Starter Kit.. **$187.20**

ATWEBEVK-01 Evaluation Kit

The @Web Evaluation Kit allows the user to evaluate the full range of options available in integrating TCP/IP software into Atmel C51 Flash MCUs. Once the user has completed the demo he will be able to Read and Write information to and from the Flash memory of the microcontroller through the Internet.

Moreover, the user will see how all of the information recorded on the microcontroller is available using standard PC tools such as a Web browser, Hyperterminal, and Dial-up Networking.

Kit Includes:

• Evaluation Board with T89C51AC2 Controller • External speaker • Serial RS-232 Null Modem Cable • 9V battery and cable • CD-ROM including documentation and software

ATWEBEVK-01-ND **$260.00**

AT89C5131 MCU/USB Starter Kit

This starter kit is designed to help developers using AT89C5131 USB Flash microcontroller. The kit comprises an evaluation board, the In-System Programming Tool (FLIP), and a HID (Human Interface Device) keyboard demonstration program.

AT89STK-05-ND Starter Kit for AT89C5131.. **$187.20**

AT89STK-10 Quick Start Kit

This kit includes an evaluation board dedicated to the AT89C5130/31A and AT8xC5122D microcontrollers, enabling you to run an application based on the Mass Storage Package. **Kit Includes:** • Flash Evaluation Board • Nand Flash memory • DataFlash Card • USB products CD-ROM

AT89STK-10-ND.. **$187.20**

AT89STK-11 Starter Kit

The AT89STK-11 Starter Kit is dedicated to the In-System Programmable Flash C51 microcontrollers. The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-11-ND **$187.20**

ATOCD51 Emulator System

The AT89OCD emulator system is designed to allow an easy connection to Atmel AT8xC51 microcontrollers and uses the USB interface (standard USB B plug to A plug cable) connection to PC platforms. The Software package is fully integrated into Keil® µvision IDE.A

AT89OCD-01-ND **$187.20**

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

89C51SND1 MP3 Player Emulator

The AT89EMK-01 Development System for Atmel 89C51SND1 Microcontrollers derivatives with 6/12 clocks/cycle is very effective in meeting the diverse demands of emulation operations.

Features: • Emulates 89C51SND1 Derivatives with 6/12 Clocks/Cycle • 62K Code Memory • Real-Time Emulation • Frequency up to 20MHz/3V • ISP and X2 Mode Support • MS-Windows Debugger for C and Assembler • Keil µVision2 Debugger Compatible • QFP and PLCC Emulation Headers • ISP Programmer Included • Serially Linked to PC at 115Kbaud

AT89EMK-01-ND	Emulator for MP3 SND1 MCU	**$1592.50**

Smart Card Development Kits

AT89RFD-02: The USB Smart Card Reader reference design allows to quickly read and write any kind of smart card through a USB link. It is based on a single-chip turnkey solution which combines the Atmel AT83C22OK/AT83C23OK microcontrollers and OMNIKEY® Firmware (smart@key and smart@link).

AT89RFD-06: The PCMCIA Smart Card Reader reference design allows to quickly read and write any kind of smart card through a PCMCIA link. It is based on a single-chip turnkey solution which combines the Atmel AT83C25OK microcontroller and OMNIKEY smart@bus Firmware.

AT89RFD-02-ND	AT83C22OK/23OK Reference Design	**$260.00**
AT89RFD-06-ND	PCMCIA Reader Reference Design	**$260.00**

AT8xC5122/23 Smart Card Reader Starter Kit

The Evaluation Board included in AT89STK-03 Starter Kit dedicated to the AT8xC5122/23 Smart Card Reader microcontrollers. This board is designed to allow an easy evaluation of the product using demonstration software.

Features: The AT89STK-03-ND Evaluation Board provides the following features: • Possibility to choose between three packages: PLCC 68-pin package, VQFP 64-pin package, PLCC 28-pin package • On-board power supply circuitry with low drop regulator: From an external power connector, an external battery, and the USB line via the USB on-board connector • ISO7816 connector for Smart Card

AT89STK-03-ND	Starter Kit for MCU AT8XC5122/23	**$260.00**

AT89STK-09 Evaluation Board for AT83C26 Smart Card Reader IC

The AT89STK09 is a starter kit for the AT83C26 device. The AT83C26 is a smart card reader interface with 2 DC/DC converters allowing to manage up to 5 smart cards including level shifters. This device needs TWI commands to configure its registers. This device requires a host microcontroller with one or two ISO7816 Smart Card Interfaces.

Features: • AT89STK09 board with A2 ISO7816-3 connectors and 4 SIM/SAM connectors • 2 Gemplus GemClub Smart cards • Smart Card Reader IC CD-ROM • 2 VQFP48 and 2 QFN48 samples • AT89STK09 user guide document

AT89STK-09-ND	**$260.00**

@Web Hardwired TCP/IP Ethernet Solutions

@Web LAN51H Development Kit

The @Web LAN51H Development Kit is designed for testing high-speed Internet connectivity with Atmel 80C51 Flash MCU and the WIZnet i2Chip®, a unique hardwired embedded Ethernet TCP/IP chip.

The customer can change functions and reload firmware using In-System Programming capability. Error messages can be displayed on the LCD screen, allowing easy debug of user's application. After evaluation, the drop-in network module (IIM7010) supplied in the kit can be re-used.

ATWEBDVK-02-ND	**$260.00**

Gateway Modules

ATWEBEVK-05-ND	RS232 to Ethernet Evaluation Board	**$195.00**
ATWEBEVK-06-ND	Can to Ethernet Evaluation Board	**$234.00**

@Web LAN51H Modules

Atmel provides @Web LAN51H Development Kits with additional modules directly connected to the @Web LAN51H development board. These additional modules can run the functions of either a Remote Power On-off Control, or Voice Transmission (VoIP), or Network Web Camera.

Remote Controller

Features:

• On-off Control Function Using Web Server • LED On-off Control and Text LCD Display Using Web Browser 3 x 110V ~ 220V Relay Switches

Voice Transmission (VoIP)

Features:

• Full-duplex Voice Transmission through Internet • Supports G723.1 Standard True Speech Voice Codec • Normal Microphone Input and Speaker Output • Audio DAC (MC745483) and DSP (CT8022A) • Included Loudspeaker Connector

Network WebCam

Features:

• Four-channel Cmos Web Camera with Standard JPEG Coding • Video Coding: Hardware MFPEG Codec (LC82210 from Sanyo) • Video Mode: VGA, CIF, QCIF • CMOS Sensor: 1/3" Color CMOS Image Sensor (OV7620 from OmniVision), Maximum Frame Rate: 3fps with Standard C51

ATWEBDVK-02RC-ND	LAN51H and Remote Controller Kit	**$455.00**
ATWEBDVK-02VOIP-ND	LAN51H and Voice Transmission Kit	**$650.00**
ATWEBDVK-02WC-ND	LAN51H and Network WebCam Kit	**$910.00**

NEW!

EFM®32 Gecko Development Kits

The EFM32 Gecko Development Kit is a platform for rapid prototyping of ultra low power microcontroller applications. It consists of a mother board, a replaceable MCU-board and a prototyping-board, along with a comprehensive software development environment.

Advanced Energy Monitor (AEM): • Precise measurement of current and voltage • 0.1µA ~ 50mA measurement range • Onboard logging and display features • Always available by pushing a button

Software: • Comprehensive set of board support functions • 32KB evaluation versions of: KEIL™ MDK-ARM Microcontroller Development Kit and IAR Embedded Workbench®

User Interface: • 320x240 TFT display • 16 User LEDs • 8 rocker style miniature DIP switches • 4 pushbutton switches • Miniature joystick • 1 system reset pushbutton switch • Potmeter

Communication: • 2 RS232 serial ports • I2C interface • Infrared transceiver

Debugging: • Onboard SEGGER J-Link USB emulator • ARM 20 pin JTAG/SWD standard Debug in/out connector

Memory: • 4 Mbit fast access SRAM • 32 Mbit NOR Flash • 2 kbit I2C bus EEPROM • 16 Mbit SPI Flash

Power: • Two separate power domains allowing for accurate current and voltage measurements of the application energy consumption • External 5V supply • 5V / 500mA USB supply

MCU Board: • LCD (EFM32-G8XX-DK only) • 32.768 kHz crystal • 32 MHz crystal • LEDs indicating power and reset

914-1000-ND	(EFM32-G2XX-DK)	EFM32 Gecko Development Kit with EFM32G290F128 MCU Plug-in Board	**$324.00**
914-1001-ND	(EFM32-G8XX-DK)	EFM32 Gecko Development Kit with EFM32G890F128 MCU Plug-in Board with 160 Segment LCD	**$324.00**

EFM®32 Flash Microcontrollers

Memory Size (Bytes)		I/O Pins	I2C	Timer (PWM)	RTC	WDT	ADC (Pins)	DAC (Pins)	ACMP (Pins)	Package	Digi-Key Part No.	Cut Tape Price Each			Energy Micro Part No.
Flash	Ram											1	25	100	
128K	16K	24	1	2 (6)	1	1	1 (4)	1 (1)	2 (4)	32-QFN	914-1011-1-ND	6.70	5.57	5.06	EFM32G210F128
		24	1	2 (6)	1	1	1 (4)	1 (1)	2 (4)	32-QFN	914-1011-2-ND†	3415.50/1,000			EFM32G210F128
		56	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	64-QFN	914-1012-1-ND	7.55	6.27	5.70	EFM32G230F128
		56	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	64-QFN	914-1012-2-ND†	3847.50/1,000			EFM32G230F128
		85	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	100-QFP	914-1013-1-ND	8.08	6.71	6.10	EFM32G280F128
		85	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	100-QFP	914-1013-2-ND†	4117.50/1,000			EFM32G280F128
		90	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	112-BGA	914-1014-1-ND	8.24	6.85	6.22	EFM32G290F128
		90	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	112-BGA	914-1014-2-ND†	4198.50/1,000			EFM32G290F128
		56	1	3 (9)	1	1	1 (8)	2 (2)	2 (8)	64-QFN	914-1015-1-ND	9.43	7.84	7.12	EFM32G840F128
		56	1	3 (9)	1	1	1 (8)	2 (2)	2 (8)	64-QFN	914-1015-2-ND†	4806.00/1,000			EFM32G840F128
		85	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	100-QFP	914-1016-1-ND	10.12	8.41	7.64	EFM32G880F128
		85	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	100-QFP	914-1016-2-ND†	5157.00/1,000			EFM32G880F128
		90	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	112-BGA	914-1017-1-ND	10.31	8.56	7.78	EFM32G890F128
		90	1	3 (9)	1	1	1 (8)	2 (2)	2 (16)	112-BGA	914-1017-2-ND†	5251.50/1,000			EFM32G890F128

† Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Digi Connect® SP Family

The Digi Connect SP device server delivers a powerful, compact and cost-effective off-the-shelf hardware platform for embedded networking solutions. The device server is the ideal platform for your custom web and network enabled embedded applications. Combining Digi and NetSilicon® technology, it eliminates the hardware design effort and delivers a true device networking solution that is powerful enough to meet your future performance requirements.

Features: • 32-bit NET+ARM high-performance RISC processor (NS7520 55MHz) • 4MB Flash and 16MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; Mark/space/even/odd parity; Full signal support with software/hardware flow control • Auto-sensing 10/100 Mbit Ethernet interface and network link

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Device Server Adapter	602-1035-ND	189.00	DC-SP-01-C
Adapter Development Kit	602-1013-ND	1495.00	DC-SP-01-GN
Adapter Development Kit (No Raven Debugger)	602-1014-ND	738.00	DC-SP-01-GN-NR
Adapter Customizable model with JTAG interface	602-1015-ND	249.00	DC-SP-01-JT

Digi Connect® ME Family

The Digi Connect ME is a connector-style embedded module that enables manufacturers to keep pace with ever-evolving networking technology by easily adding secure web-enabled network connectivity to their products. The Digi Connect ME combines true plug-and-play functionality with the freedom and flexibility of complete product customization options.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Wired 10/100Base-T network interface • 1 high-speed TTL serial interface • Five shared General Purpose Input/Output (GPIO) ports • Data rate: 10/100 Mbps (auto-sensing) • 3.3VDC @ 250mA typical (825mW)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
8MB SDRAM, 2MB Flash, Standard Firmware	602-1053-ND◆	49.00	DC-ME-01T-S
8MB SDRAM, 2MB Flash, Standard Firmware, 10-pieces	602-1029-ND◆	450.00	DC-ME-01T-S-10
8MB SDRAM, 2MB Flash, Customizable	602-1054-ND◆	49.00	DC-ME-01T-C
8MB SDRAM, 2MB Flash, Customizable, 10-pieces	602-1030-ND◆	450.00	DC-ME-01T-C-10
8MB SDRAM, 4MB Flash, Customizable	602-1055-ND	55.00	DC-ME4-01T-C
8MB SDRAM, 4MB Flash, Customizable, 10-pieces	602-1031-ND◆	500.00	DC-ME4-01T-C-10
Integration Kit (for use with "S" models)	602-1057-ND◆	249.00	DC-ME-01T-KT
JumpStart Kit for ME with NET+OS	602-1086-ND	499.00	DC-ME-NET
Customizable with JTAG Interface, 8MB SDRAM, 2MB Flash	602-1058-ND◆	99.00	DC-ME-01T-JT
Customizable with JTAG Interface, 8MB SDRAM, 4MB Flash	602-1059-ND	99.00	DC-ME4-01T-JT
JumpStart Kit for Microsoft .NET Micro Framework	602-1088-ND	299.00	DC-ME-MF
8MB SDRAM, 2MB Flash, Module ME 9210	602-1134-ND	99.00	DC-ME-Y401-JT
8MB SDRAM, 4MB Flash, Module ME 9210	602-1135-ND	99.00	DC-ME-Y402-JT
JumpStart Kit for ME 9210 with NET+OS7	602-1136-ND	299.00	DC-ME-9210-NET
JumpStart Kit for ME 9210 for Embedded Linux	602-1137-ND	249.00	DC-ME-9210-LX
8MB SDRAM, 4MB Flash, ME 9210 (single-unit pack)	602-1138-ND	60.00	DC-ME-Y402-C
Encryption Engine	602-1139-ND	55.00	DC-ME-Y401-C

◆ ***RoHS Compliant***

Digi Connect® EM Family

The Digi Connect EM board-mount embedded module delivers true web-enabled and secure device networking that is easy and cost-effective to implement, while being powerful enough to meet future performance needs.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Wired 10/100Base-T network interface • 2 high-speed TTL serial interfaces • 4MB Flash memory, 8MB RAM • 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Serial Peripheral Interface (SPI) • 9 shared General Purpose Input/Output (GPIO) ports • Data rate: 10/100 Mbps (auto-sensing) • 3.3VDC @ 270mA max (891mW)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware	602-1039-ND◆	79.00	DC-EM-02T-S
8MB SDRAM, 4MB Flash, Customizable	602-1040-ND◆	79.00	DC-EM-02T-C
JumpStart Kit for EM with NET+OS	602-1087-ND	499.00	DC-EM-NET

◆ ***RoHS Compliant***

ConnectCore™ 7U

First member of the ConnectCore embedded core processor module family utilizing the high performance NS7520 processor with ARM7TDMI core. Built on leading Digi 32-bit NET+ARM technology, it provides the ideal base core processor platform for products in a wide variety of applications that demand an additional level of performance and connectivity.

Features: • 32-bit ARM and 16-bit Thumb instruction sets which can be mixed for performance/code density tradeoffs • 15 general purpose 32-bit registers • 10/100 Mbps MII PHY interface • 2 channels support Ethernet module • 4 channels support 2 serial modules

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Module with 2MB Flash and 16MB SDRAM	602-1094-ND◆	99.00	CC-7U-Z111-Z1
Module with 8MB Flash and 16MB SDRAM	602-1060-ND	119.00	FS-352
Module with 8MB Flash and 16MB SDRAM	602-1095-ND◆	119.00	CC-7U-Z113-Z1
FS Forth UNC90 with 32MB SDRAM, 16MB Flash, (Atmel AT91RM9200 MCU @ 180MHz)	602-1046-ND	159.00	FS-373
Development Kit for NET+OS	602-1018-ND	1495.00	FS-998
Biometric Design Kit - IKENDI Fingerprint	602-1019-ND	720.00	FS-9007
Compact Flash Design Kit with 802.1b wireless	602-1020-ND	720.00	FS-9021
Java Design Kit - Java (Mika)	602-1021-ND	720.00	FS-9022
JTAG SuperBooster for programming flash memories with software - 3 volt.	602-1036-ND◆	714.00	FS-985
JTAG SuperBooster for programming flash memories with software - 5 volt.	602-1028-ND	714.00	FS-984

◆ ***RoHS Compliant***

ConnectCore™ 9C

A powerful ARM9-based core module that enables OEMs to design in core processing functionality and networking capabilities with a single, high-performance solution. It delivers complete embedded network connectivity along with additional bandwidth to handle sophisticated embedded applications including building automation systems, POS systems, RFID readers, instrumentation, networked displays, transportation systems, industrial automation systems and many more.

Features:

• 32-bit NS9360 high performance RISC processor (155MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I^{2}C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Module with 16MB SDRAM, 4MB Flash, Ethernet Dual Stacked USB Connectors	602-1093-ND◆	139.00	CC-9C-V212-Z6
JumpStart Kit for 9C with NET+OS	602-1079-ND◆	499.00	CC-9C-NET
JumpStart Kit for 9C with Windows CE	602-1080-ND◆	499.00	CC-9C-CE6
JumpStart Kit for 9C with Embedded Linux	602-1081-ND	499.00	CC-9C-LX

◆ ***RoHS Compliant***

ConnectCore™ 9P

Compact high-performance 32-bit NET+ARM processor module family combines superior performance and design integration flexibility with complete embedded software platform support. ConnectCore 9P modules are a complete set of integrated peripherals and component connectivity options in a compact and versatile form factor.

Features:

ConnectCore9P 9750: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9750 @ 200MHz • Up to 128MB NAND Flash and 64MB SDRAM: Standard population 32MB Flash and 16MB RAM • Integrated 32-bit PCI v2.2/Cardbus Bridge (33MHz) • 16 General Purpose Timers/Counters • Up to 50 GPIO port options

ConnectCore9P 9360: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9360 @ 177MHz • Up to 128MB NAND Flash and 128MB SDRAM: Standard population 32MB Flash and 32MB RAM • 8 General Purpose Timers/Counters or 4 PWM functions • Up to 73 GPIO port options

ConnectCore 9P Family: • Integrated 10/100 Mbps Ethernet MAC/PHY • Up to four serial interfaces w/UART and SPI mode • Integrated USB 2.0 compliant host/device interface • On-chip I^{2}C bus interface (100/400 kHz) • Flexible LCD controller with support for TFT/STN displays • External memory bus interface • Real-Time Clock (RTC) with support for external battery backup • 8KB serial EEPROM for configuration storage • On-board JTAG interface

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16MB SDRAM, 32MB Flash with NS9750	602-1062-ND	195.60	FS-364
64MB SDRAM, 32MB Flash with NS9750	602-1043-ND◆	320.00	FS-380
32MB SDRAM, 32MB Flash with NS9360	602-1063-ND◆	178.80	FS-382
(9360) Development Kit for LxNETES - Linux	602-1026-ND◆	2495.01	FS-9064
(9750) Development Kit for LxNETES - Linux	602-1025-ND	2111.56	FS-9053
(9750) Development Kit of NET+OS	602-1024-ND	2111.56	FS-9032
(9360) JumpStart Kit for 9P with 2.5NET+OS	602-1082-ND	499.00	CC-9P-NET
(9360) JumpStart Kit for 9P with Windows CE	602-1083-ND◆	518.75	CC-9P-CE6

◆ ***RoHS Compliant***

Embedded Core Modules

These high performance, Samsung processor based, modules are members of FS Forth-System's ModARM9 family of modular solutions for embedded systems. These modules include SDRAM, flash and control logic in a compact 60x44mm form factor. Low power consumption allows for battery powered applications. Other typical applications include those in Industrial Automation, Retail Point-Of-Sale, Medical Instrumentation and Data Acquisition.

Features:

- LCD Controller (STN and TFT)
- Touch screen interface
- USB 1.1 Host and Device Controller
- 32/64/128 MBytes NAND Flash • 16/32/64/128MBytes SDRAM
- 3 UART channels

A9M2410: • Samsung's S3C2410 microcontroller • ARM920T core (200MHz) with MMU

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
FS Forth A9M2410 Module with 32MB SDRAM, 32MB Flash with 10Mbps Ethernet	602-1048-ND	215.00	FS-362

Digi One™ SP

The Digi One SP delivers efficient serial-to-Ethernet connectivity and is ideal for applications where TCP Socket, UDP Socket or UDP multicast functionality is needed.

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Device Server 1-port Serial to Ethernet	602-1075-ND	182.00	70001851

Jackrabbit™ Low-Cost Single-Board Computer

Model BL1800: • **Board Size:** 2.50” x 3.50” x 0.94” (64mm x 89mm x 24mm) • **Input Voltage:** 8VDC ~ 40VDC, switching regulator, 49mA typical @ 24VDC • **General Purpose I/O:** 14 bidirectional, 6 inputs, 4 outputs (CMOS compatible) • **High Power Outputs:** 3 sinking (1 Amp) and 1 sourcing (500mA) • **1 Analog Input:** 9-bit resolution, 8-bit accuracy, 0.1V ~ 2.8V input range, 75ms typical acquisition time • **2 Analog Outputs:** Filtered/buffered PWM outputs • **Processor:** Rabbit 2000, clock, 29.5MHz • **Memory:** SRAM 128K, flash 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timer with 2 match registers • **Serial Ports:** (2) RS-232 (or one with CTS/RTS) rated @ 1KV ESD, (1) RS-485 rated @ 15kV ESD, (1) 5V CMOS compatible (programming port), 2 serial ports can be clocked • **Serial Rate**: Selectable baud rates up to 115,200 bps (RS-232), 230,400 bps (RS-485). 5 Volt CMOS compatible port up to 7.37Mbps
• **Additional Features:** watchdog/supervisor, time/date clock, and backup battery

Model BL1810: Same as BL1800, except with 14.7MHz clock, 128K flash, linear regulator (7.5~25V), 3 sinking (200mA) and 1 sourcing (100mA) high-voltage outputs, and CMOS port baud rate of 3.69Mbps.

Model BL1820: Same as BL1810, except with no battery backup, (2) RS-232 and (2) 5V CMOS compatible (programming port)

Jackrabbit™ Development Kit

Digi-Key Part No. 316-1000-ND (101-0363) Only **$139.00**

Includes Jackrabbit BL1810, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C® SE software development system (not a trial version).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL1800	316-1079-ND	99.00	20-101-0356
Model BL1810	316-1080-ND	69.00	20-101-0357
Model BL1820	316-1081-ND	49.00	20-101-0358

Low-Cost Single-Board Computer

Features: • Rabbit 3000™ microprocessor operating at up to 7.4MHz • 512K SRAM and 512K flash memory options • 26 Digital I/O: 16 protected digital inputs and 10 high-current digital outputs • 8 Single-ended or 4 differential analog channels with Vcc monitoring option: 11-bit single-ended or 12-bit differential channels • 3 PWM outputs • Six serial ports • Battery-backed real-time clock • Watchdog supervisor

The LP3500 can be mounted to a panel or on a plastic-enclosure base.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Fox Tool Kit for 3500	316-1056-ND	200.00	101-0529
LP3500 Fox	316-1115-ND◆	199.00	20-101-0525

◆ ***RoHS Compliant***

Coyote™ BL2500 Ethernet-Enabled Single-Board Computer

Features: • Rabbit 3000™ at 29.4 MHz • 10Base-T, RJ-45 • 256K Flash Memory • 128K SRAM • Compact board size of 3.95” x 3.95” (100 x 100 mm) • 24 digital I/O plus 1 A/D input and 2 D/A outputs along with 4 LEDs • Six serial ports

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL2500	316-1179-ND	189.00	20-101-0575

BL4S100 Single-Board Computer

The BL4S100 delivers an integrated hardware and software platform to easily implement a ZigBee enabled Ethernet gateway ideal for monitoring and control. The series is designed to support the rapidly-increasing use of ZigBee connectivity for companies looking to deploy wireless networking.

Features: • Rabbit 4000 running at 40MHz • On-board Rabbit RIO® device for exceptional I/O functionality and flexibility • Web Server functionality • Easy implementation of mesh networking with known good hardware • Dynamic C® software environment to reduce development time

Starter Package Kit: Affordable package includes all the tools needed to develop and debug a design
Plastic Enclosure: Consisting of a base and a cover, provides a secure way to protect a BL4S100 single-board computer.
Model BL4S100: • ZigBee PRO Feature Set • 1MB Flash Memory • 512KB SRAM
Model BL4S110: • 1MB Flash Memory • 512KB SRAM
Model BL4S150: • ZigBee PRO Feature Set • 2MB Flash Memory • 1MB SRAM
Model BL4S160: • 2MB Flash Memory • 1MB SRAM

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Starter Package Kit	316-1157-ND	111.25	101-1268
Plastic Enclosure	316-1159-ND	29.00	101-1279
Model BL4S100	316-1168-ND◆	149.00	20-101-1255
Model BL4S110	316-1169-ND◆	129.00	20-101-1256
Model BL4S150	316-1170-ND◆	159.00	20-101-1257
Model BL4S160	316-1171-ND◆	139.00	20-101-1258

◆ ***RoHS Compliant***

BL4S200 Single-Board Computer

Rabbit’s BL4S200 series of single-board computers deliver the features and wireless connectivity to support networking for industrial control applications. The series offers a full-featured control and communications solution for industrial applications. It is designed to provide the microprocessor control and I/O used for reading instruments, timing events precisely, controlling motors, relays and solenoids.

Features: • Uses Rabbit 4000 and Rabbit 5000 microprocessors • Choice of Wi-Fi, ZigBee or Ethernet connectivity • 40 digital I/O and up to 5 serial ports • 8 input and 2 output analog channels • Advanced I/O subsystem is software configurable reducing the load on the processor • I/O features include event/capture counting, quadrature decoders, PWMs and PPMs

Model BL4S200: • Uses RCM4310 RabbitCore module • 10/100Base-T Ethernet connectivity • Socket for up to 1 GB miniSD memory card
Model BL4S210: • Uses RCM4010 RabbitCore module • 10Base-T Ethernet connectivity
Model BL4S230: • Uses RCM4510W RabbitCore module • ZigBee enabled connectivity
Model BL5S220: • Uses RCM5400W RabbitCore module • IEEE 802.11b/g Wi-Fi connectivity
BL4S200 Tool Kit Contents: • Dynamic C® CD-ROM, with complete product documentation • Printed getting started manual and Rabbit 4000/5000 posters • Demonstration board with pushbutton switches and LEDs to demonstrate the I/O capabilities of the BL4S200 • USB programming cable to connect the BL4S200 to your PC’s USB port • Universal AC adapter, 12VDC, 1A (includes Canada/Japan/United States, Australia/New Zealand, United Kingdom, and European style plugs

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL4S200	316-1164-ND◆	269.00	20-101-1220
Model BL4S210	316-1172-ND◆	229.00	20-101-1259
Model BL4S230	316-1173-ND◆	249.00	20-101-1261
Modle BL5S220	316-1177-ND◆	279.00	20-101-1260
BL4S200 Tool Kit (RCM5400-Based)	316-1176-ND	111.25	101-1270

◆ ***RoHS Compliant***

Smart Screen OP7100 with Touchscreen

The Smart Screen’s C-programmability provides the flexibility required for almost any display application. The Smart Screen is ideal for remote terminals, automated machinery, and control systems **Features:** • 1/4 VGA display (320 x 240 pixels) • Touchscreen matrix • Vertical or horizontal orientation • Wide viewing angle • 16 digital I/O • Meets NEMA 4 water resistance

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Smartscreen OP7100 with Touchscreen	316-1175-ND	549.00	20-101-0303

Interface OP7200 with Touchscreen

Features: • Small Size: 4.4” x 5.7” x 1.7” (112mm x 144mm x 43mm) • 1/4 VGA LCM display (320 x 240 pixels) with white LED backlight • 9-key keypad • LCD controller and SRAM compatible with OP7100 • 4 Status LED’s • 24 Digital I/O • Rabbit 2000® microprocessor operating @ 22.1MHz • Audible alarm buzzer • 128K SRAM and 256K flash memory standard • One RJ-45 Ethernet port • Four serial ports • On-board backup battery • Watchdog • External reset input • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Intelligent Operator Interface	316-1154-ND◆	449.00	20-101-0535
20” Cable for Panel Mount Keyboard/display	316-1052-ND	15.00	540-0066

◆ ***RoHS Compliant***

Interface OP6800 with Ethernet Port

Features: • 122 x 32 Graphic display • 7-key keypad • 7 LEDs • 24 Digital I/O • Rabbit 2000® microprocessor at 22.1MHz • 128K static RAM and 256K flash memory • One RJ-45 Ethernet port • Four serial ports • Battery-backable real-time clock, battery included • Watchdog • Reset generator • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP6800 with Ethernet Port	316-1060-ND	249.00	101-0492

RabbitCore™ Application Development Kits

Wi-Fi Application Kit

Jumpstart your wireless application design with a complete application kit. Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system. Wireless connectivity eliminates Ethernet cables allowing for greater flexibility and mobility of wireless embedded Networks.

Includes:

• Linksys Wi-Fi card • RCM3100 microprocessor core module • Prototyping board • Dynamic C® development system and complete documentation on CD-ROM • Serial cable for programming and debugging • 10-pin DB15 Conversion Cable • Manuals • AC adapter (U.S./Canada only)

316-1039-ND	(101-0911)	**$359.40**

Serial to Ethernet Kit

Designers now have a Serial-to-Ethernet Application Kit that is easy to use. The simple 3-Step Setup for transmitting data from a digital volt meter via a serial port to a TCP/IP stream enables even the newest user to quickly develop a Serial-to-Ethernet application. The kit features digital volt meter software libraries, sample programs and a menuing system, in addition to the Dynamic C® integrated development environment.

Includes:

• RCM3010 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • DB9 Null Modem Cable • 10-pin® DB9 Conversion Cable • Ethernet Crossover Cable • Getting Started manual • Keypad/display unit • AC adapter (U.S./Canada only)

316-1042-ND	(101-0689)	**$349.00**

Embedded PLC Application Kit

This kit enables a Rabbit 3000 based single-board computer to be programmed using a standard software environment that is commonly used to program PLC's (Programmable Logic Controllers).

Features:

• Communication parameters are configurable using the Embedded PLC Utility for the Rabbit Processor • Rabbit 3000 @ 44.2MHz • 10Base-T, RJ-45 (standard) • Flash Memory: 512K • SRAM: 256K + 512K • Digital Inputs: 16 • Digital Outputs: 8 • Analog Inputs: One 10-bit resolution • Analog Outputs: Two 9-bit PWM • 6 serial ports

316-1120-ND	(101-1108)	**$599.00**

Color Touchscreen Application Kit

The Reach Technology Color Touchscreen with a RabbitCore creates an application kit that provides embedded systems integrators the ability to add advanced interface functionality to embedded systems. Color touchscreens provide real-time feedback, allowing for better control in industrial-automation applications.

Includes:

• RCM3720 RabbitCore with Prototyping Board • Reach Technology SLCD Graphics Touch Terminal with NEMA 4 steel enclosure • Supplemental CD's • Dynamic C® development system and complete documentation on DC-ROM • User manuals, sample programs and libraries • 5 serial and conversion cables • Two AC adapters (U.S./Canada only)

316-1075-ND	(101-1062)	**$999.00**

ZigBee™ Application Kit

This kit combines MaxStream®'s XBee™ RF modem with the popular RCM3720 RabbitCore module along with and easy-to-use interface to help customers build a practical ZigBee wireless control network.

Features:

• Rabbit 3000 processor at 22.1MHz • 10Base-T interface, RJ-45, 2 LEDs • Flash Memory: 512K • SRAM: 256K • MaxStream XBee (ISM 2.4GHz) • 802.15.4 standard (ZigBee compliant) • Transmit Power Output = 1mW (0 dBm) • Receiver Sensitivity = -92 dBm (1% PER) • Supported Network Topologies: Point-to-point, Point-to-multipoint, Peer-to-peer, Mesh

316-1118-ND	(101-1137)	**$399.00**

Camera Interface Application Kit

This kit combines a VGA camera with a popular RabbitCore module that has removable memory to provide an event-capture application.

Features:

• RabbitCore module @ 44MHz, and 10/100Base-T Ethernet • 512K Flash/512K SRAM, 16MB NAND and socket for removable memory • VGA camera module, servo motors and IR motion sensor • Time stamped photos and event notification options such as email notification and FTP upload • Image Resolution: 640 x 480 (VGA) / 320 x 240 (QVGA) / 160 x 128 / 80 x 64 • Color: Up to 8-bit gray, 16-bit RGB or standard JPEG preview images • Sensor Type: Passive infrared sensor • Motor Type: Micro-servo

316-1119-ND	(101-1121)	**$499.00**

Wireless Control Application Kit

The Wireless control Application Kit provides a reference to interface a license-free 900MHz or 2.4GHz wireless data module to a new or existing Rabbit-based embedded system. **Features:** • Low power LP3500 with low-EMI Rabbit® 3000 microprocessor: • Up to 512K each of Flash and SRAM • 26 industrialized digital I/O • A/D inputs and PWM outputs • 6 serial ports, one relay • 2 dedicated function ports for easy connection to Serial Flash, keypad/display and other devices • Two MaxStream® license-free RF Modules, FCC approved • Complete software libraries and samples

316-1132-ND	(101-1165)	**$472.88**

Bluetooth Application/Add-On Kits

This kit provides all of the hardware and software necessary to develop a Bluetooth application. It includes an RCM3100, Embedded Blue eb506-AHC-IN Bluetooth Radio Module, prototyping board and miscellaneous cables and hardware. This kit also includes the Dynamic C® Integrated Development Environment, Bluetooth drivers, libraries, sample programs and manuals.

Features:

• Bluetooth radio modules plug directly into supported RCMs and SBCs • Simple serial UART communications and control • Seamless connectivity with any Bluetooth device • 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology ensures high reliability and is robust to interference • Low current consumption for long battery life • Complete with sample applications and source code • Internal Surface-mount antenna

316-1072-ND	(101-1040) Application Kit	**$399.00**
316-1073-ND	(101-1042) Add-On Kit	**$99.00**

RCM4010 RabbitCore SMB Network Storage Application Kit

This kit enables a RabbitCore module to use the SMB (Server Message Block) protocol, more commonly known as Windows File Sharing, for a high-capacity storage space over a network connection.

Features:

• Core Module: RabbitCore RCM4010 • IDE Hard Drive: 250 GB • Hard Drive Chassis: Eagle Consus NAS with power supply • Power Supply: 12VDC; 120/240VAC • Rabbit USB programming cable

316-1156-ND	(101-1218)	**$349.00**

RCM4300 RabbitCore Development Kit

The kit includes a RCM4300 core module with a miniSD™ card, a prototyping board, accessories, and development tools to get you up and running quickly. Along with our industry-proven Dynamic C® integrated development software — incorporating an editor, compiler, and in-circuit debugger — there is also the FAT file system familiar to many programmers, RabbitWeb for creating HTML web pages, and Rabbit's Secure Socket Layer (SSL) utility.

316-1134-ND	(101-1177) Development Kit	**$299.00**
316-1141-ND	(20-101-1138)	**$114.00**
316-1142-ND	(20-101-1139)	**$99.00**

RCM4300 RabbitCore Simple Sensor Application Kit

The Simple Sensor Application Kit provides sample applications based on 1-Wire devices to help users better understand and implement the 1-Wire communications bus using a prototyping board and a RabbitCore module

Kit Contents:

- RCM4300 RabbitCore Development Kit
- Simple Sensor Protoype Board with 1-Wire devices
- DS2406 SPST addressable switch, DS18B20 temperature sensor, DS2450 A/D converter, DS2480B line driver
- Complete Dynamic C software CD with several sample programs
- Universal Power Supply

316-1178-ND	(101-1288)	**$349.00**

RCM4400W Wi-Fi Development Kit

Jumpstart your evaluation and design efforts with a complete Rabbit 4000 development kit, which includes a microprocessor core module, development board with prototyping area, Dynamic C® 10 development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual, and AC adapter (U.S./Canada only).

316-1133-ND	(101-1173) Development Kit	**$299.00**
316-1143-ND	(20-101-1202)	**$119.00**
316-1147-ND	(20-101-1221)	**$119.00**

RCM4510W RabbitCore Development/Add-On Kits

The RCM4510W RabbitCore module mounts directly on a user-designed motherboard and acts as the controlling microprocessor for the embedded system. The motherboard supplies power to the RCM4510W and allows many different CMOS-compatible devices to interface with the core module. Integrated on the RCM4510W is a Digi® XBee™ ZNet 2.5 RF module for ZigBee/802-15-4 embedded implementation.

Features:

• RabbitCore module running @ 29.49MHz • Designed for ZigBee®/802.15.4 wireless connectivity • 512K flash memory, 512K data SRAM • Up to 40 general-purpose I/O lines configurable • Up to 9 additional general-purpose I/O lines (up to 4 of which may be set up as analog inputs) available through the on-board ZigBee compliant RF module • Small size: 1.84" x 2.85" x 0.54" (47mm x 72mm x 14mm)

316-1158-ND	(101-1272) Mesh Network Add-On Kit	**$299.00**
316-1144-ND	(20-101-1207) — ***RoHS Compliant***	**$89.00**

RCM5400W RabbitCore Development Kit

The RCM5400W RabbitCore module series provides Wi-Fi/802.11b/g functionality, enabling you to create low-cost, embedded wireless control and communications solutions for embedded control applications.

Features: • Rabbit® 5000 running @ 73.73MHz • Up to 2MB of serial flash • 39 lines of digital I/O • Integrated IEEE 802.11b/g Wi-Fi • Up to 6 serial ports • Small size: 1.84" x 2.85" x 0.50" (47mm x 72mm x 13mm)

316-1138-ND	(101-1262) Development Kit	**$299.00**
316-1148-ND	(20-101-1246) — ***RoHS Compliant***	**$119.00**
316-1149-ND	(20-101-1247) — ***RoHS Compliant***	**$134.00**

Rabbit Cloning Board, Power Supply and Converter Cable

Rabbit Cloning Board:
Copies designated portions of flash memory from one Rabbit-based controller (the master) to another (the clone). Dynamic C® version 6.50 or later is needed to use the cloning board.
Benefits: • The Rabbit Cloning Board replaces a PC or EPROM burner as the primary tool to load programs, thus reducing costs and workspace • Programs may be loaded quickly onto blank, soldered on flash devices • High-speed transfers at 57,600 bps or 115,200 bps • Higher-speed data transfer of up to 921,600 bps starting with Dynamic C version 7.05 • Ideal for low-volume cloning production

Universal Power Supply: 110/240 VAC, 12VDC

RS-232-to-USB Converter Cable: Required for USB only PCs

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Cloning Board	316-1101-ND	89.00	20-101-0589
Universal Power Supply	316-1162-ND	35.00	101-1291
RS-232 to USB Converter Cable	316-1181-ND	39.00	20-151-0178

Rabbit 3000A™ Microprocessor

Programming the Rabbit 3000A:
Microprocessor hardware and software development is easy for Rabbit users. The Rabbit 3000A is programmed using the industry-proven Dynamic C® software development system from sister division Z-World.

Key Features:

- Low-EMI: typically <10 dB µV/m @ 3m
- Ultra-low power modes • 1.8V ~ 3.6V (5V tolerant I/O)
- 55.5MHz clock speed
- 56+ digital I/O
- 6 serial ports supporting IrDA and ASync (4 of which support SPI; 2 support SDLC/HDLC)
- Pulse capture and measurement
- Quadrature encoder inputs
- PWM outputs

Standard Features:

- Glueless memory and I/O interface
- Direct support for 1MB code/data space (up to 6MB with glueless interface)
- Battery-backable real-time clock
- Watchdog timer
- Remote boot/program
- Slave port interface

Design Advantages:

- Extensive Ethernet/Internet support and royalty-free TCP/IP stack with source and sample programs
- Dynamic C development environment for real-time development and debugging
- Exceptionally fast performance for math, logic and I/O

Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 3000A, 55.5MHz, 128LQFP	316-1061-ND	14.50	13.13	12.50	20-668-0011

RabbitCore™ RCM3400 Analog Core Module

Features:

• 3.3V operation • Powerful Rabbit 3000 microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • RCM3400: 512K Flash/512K SRAM, RCM3410: 256K Flash/256K SRAM • 8 channel 12-bit A/D with programmable gain • 47 digital I/O, Auxiliary I/O bus • 5 serial ports (IrDA, SDLC/HDLC, Asynch, SPI) • MAC ID installed

Design Advantages:

- Ready-made platform for fast time-to-market
- Compact size simplifies integration
- Dynamic C® development environment for real-time development and debugging
- Exceptionally fast performance for math, logic, and I/O

Rabbit RCM3400 RabbitCore Development Kit

Digi-Key Part No. 316-1027-ND (101-0587) Only **$399.00**

The RCM3400 Development Kit includes an RCM3400 core module, a prototyping board, AC adapter (U.S. only), 10-pin header to DE9 programming cable with integrated level-matching circuitry, complete Dynamic C® SE software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the Prototyping Board.

RabbitCoreWi-Fi Add On Kit

Digi-Key Part No. 316-1067-ND (101-0998) Only **$199.00**

The Wi-Fi Add On Kit includes Interposer Board (boards are not interchangeable between RCMs with different footprints, CompactFlash Wi-Fi Board, LinkSys Wi-Fi CompactFlash Card, 20-pin to 20-pin IDC header connection ribbon cable, 10-pin IDC header to DE9F serial cable, Sample Programs and software related specifically to the Wi-Fi Add on Kits on CD, Dynamic C® upgrade to 9.21 or higher on CD, Getting Started instruction and Miscellaneous connection and mounting hardware including standoffs, if necessary

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3400	316-1099-ND	69.00	20-101-0561
RCM3410	316-1100-ND	59.00	20-101-0562

RabbitCore™ RCM3100 Core Module

The RCM3100 features a battery-backable real-time clock, glueless memory and I/O interfacing, and ultra-low power "sleepy" modes. A fully enabled 8-bit slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features:

• Actual Size: 1.85" x 1.65" x 0.55" (47mm x 42mm x 14mm) • 29.4MHz clock speed • 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • RCM3100: 512K Flash/512K SRAM • RCM3110: 256K Flash/128K SRAM • 54 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Auxiliary I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantages:

• Ready-made platform for fast time-to-market • Compact size simplifies integration • Pin compatible with Ethernet RCM3000 for parallel product development • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O

Rabbit RCM3100 RabbitCore Development Kit

Digi-Key Part No. 316-1020-ND (101-0533) Only **$239.00**

The RCM3100 Development Kit includes an RCM3110 core module (with Rabbit 3000 microprocessor, Flash, SRAM, serial ports, and I/O ports), a prototyping board, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM, AC adapter (U.S. only) and serial cable for programming and debugging.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3100	316-1095-ND	65.00	20-101-0517
RCM3110	316-1096-ND	45.00	20-101-0518

RabbitCore™ RCM3000 Core Module

Features:

• Actual Size: 2.73" x 1.85" x .086" (69mm x 47mm x 22mm) • 29.4MHz clock speed • 10Base-T • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • Built-in Ethernet for simplified connectivity • 3.3V operation • RCM3000: Up to 512K Flash/512K SRAM • RCM3010: 256K Flash/128K SRAM • 52 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Auxiliary I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantage:

• Ready-made platform for fast time-to-market • Dynamic C® development environment for real-time development and debugging

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3000	316-1093-ND	79.00	20-101-0507
RCM3010	316-1094-ND	59.00	20-101-0508

Rabbit 2000™ 8-Bit Microprocessor

Rabbit 2000 Advantages:

- Architecture for enhanced math performance
- Glueless memory and I/O interface
- Remote cold boot
- Slave interface
- 4 serial ports
- 40-plus multifunctional I/O pins
- Battery-backable real-time clock
- Watchdog timer
- Five 8-bit cascadable timers and one 10-bit timer with match registers
- 488 microsecond periodic interrupt
- Clocking options for low power applications

Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 2000	316-1062-ND	12.34	11.38	10.41	20-668-0003

RabbitCore 2000™
Microprocessor Core Module

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2020	316-1082-ND	39.00	20-101-0383
RCM2000	316-1083-ND	69.00	20-101-0404
RCM2010	316-1084-ND	49.00	20-101-0405

RABBITCORE 2000
- **Board Size:** 1.90” x 2.30” x 0.55” (48.3mm x 58.4mm x 14.0mm)
- **Input Voltage:** 4.75 ~ 5.25VDC
- **Current:** 98mA @ 18.432MHz, 5VDC (130mA @ 25.8MHz, 5VDC)
- **Processor:** Rabbit 2000 @ 25.8MHz (18.432MHz for 2010 and 2020)
- **General Purpose I/O:** 40 parallel I/O lines grouped in five 8-bit ports (shared with serial ports)
- **Memory, I/O Interface:** 13 Address lines, 8 data lines, I/0 read/write, buffer enable, status, clock
- **Additional Digital Inputs:** (2), start up mode (for master/slave), reset in
- **Additional Digital Outputs:** Watchdog output, reset out
- **Clock:** 25.8MHz
- **SRAM:** 512K (128K for 2010 and 2020)
- **Flash:** 256K
- **Timers:** Five 8-bit cascadable timers, one 10-bit timers with 2 match registers
- **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 806,400bps, maximum synchronous is 6.45Mbps. Two ports are configurable as clocked ports
- **Slave Interface:** Allows the RabbitCore 2000 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog supervisor, time/date clock, backup battery circuitry and connections for user-supplied battery. Mates to your board via dual 40-pin male connectors.

RabbitCore™ RCM2100 Series Microprocessor Core Module

Features:
- Ethernet Port for 2100 and 2110 series only
- 512K SRAM (128K for 2110 and 2130)
- 512K Flash (256K for 2110 and 2130)

Specifications:
- **Microprocessor**: Rabbit 2000 @ 22.1MHz
- **General Purpose I/O:** 34 parallel I/O (20 configurable I/O, 8 fixed inputs, and 6 fixed outputs) (40 parallel I/O with 26 configurable I/O for 2120 and 2130)
- **Additional Inputs:** 2 Startup Mode, Reset in
- **Additional Outputs:** Status, Clock, Watchdog Out, Reset out
- **Memory I/O:** 13 buffered address, 8 buffered data, plus I/O Read-Write and Buffer Enable
- **Serial Ports:** Four 5V CMOS-compatible; 2 configurable as clocked ports
- **Serial Rate:** Maximum burst rate = CLK/32 Maximum sustained rate = Burst/2
- **Connectors:** Two 2 x 20, 2mm IDC headers
- **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller
- **Real-Time Clock:** Yes
- **Timers:** Five 8-bit timers (4 cascadable from the first) and one 10-bit timer with 2 match registers
- **Watchdog/Supervisor:** Yes
- **Power:** 4.75 ~ 5.25VDC, 140mA
- **Operating Temperature:** -40°C ~ 70°C (-40°C ~ 85°C for 2120 and 2130)
- **Humidity:** 5% ~ 95%, non-condensing
- **Board Size:** 3.5” x 2.0” x 0.86” (89mm x 51mm x 22mm); 3.5” x 2.0” x 0.5” (89mm x 51mm x 13mm) for 2120 and 2130

RabbitCore 2000/RCM2100 Low-Cost Development Kit

Digi-Key Part No. 316-1028-ND (101-0451) Only **$279.00**

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM2100 microprocessor core module, prototyping board, Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual, and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2110	316-1086-ND	59.00	20-101-0435
RCM2120	316-1087-ND	69.00	20-101-0436
RCM2130	316-1088-ND	49.00	20-101-0446

RabbitCore™ RCM2200 Microprocessor Core Module

- **Board Size:** 1.60" x 2.30" x 0.86" (41mm x 59mm x 22mm)
- **Input Voltage:** 4.75 ~ 5.25VDC
- **Current:** 134mA @ 5VDC
- **Processor:** Rabbit 2000
- **General Purpose I/O:** 26 parallel I/O lines grouped in five 8-bit ports (shared with serial ports)
- **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write
- **Additional Digital Inputs:** Startup mode, reset
- **Additional Digital Outputs:** Status, reset
- **Clock:** 22.1MHz
- **SRAM:** 128K (512K for 2250)
- **Flash:** 256K (512K for 2250)
- **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs
- **Serial Ports:** 4 CMOS-compatible ports. Maximum asynchronous baud rate is 691,000 bps, maximum synchronous is 5.53 Mbps. Two ports are configurable as clocked ports
- **Slave Interface:** Allows the RCM2200 to be used as an intelligent peripheral device slaved to a master processor
- Ethernet Port: 10Base-T, RJ-45, 2 LEDs (10Base-T, No RJ-45 for 2210)
- **Additional Features:** Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore RCM2200 Development Kit

Digi-Key Part No. 316-1012-ND (101-0475) Only **$239.00**

Kit includes RCM2200 core module (Ethernet, 256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2200	316-1090-ND	55.00	20-101-0454
RCM2210	316-1091-ND	59.00	20-101-0488
RCM2250	316-1092-ND	79.00	20-101-0494

MiniCore™ RCM5700 Microprocessor Core Module

The MiniCore RCM5700 family offers an intergrated software and hardware platform that can shorten your design cycle from years to months. RCM5750 and RCM5760 allow datalogging capabilities with increased memory options.

With six serial ports, four configurable as SPI, the RCM5700 can easily embed into any existing or new design and is pin-compatible with current and future MiniCore products, such as MiniCores offering Wi-Fi 802.11b/g. The embedded web server offers an added level of control and monitoring for today’s intensive applications.

Features: • Rabbit® 5000 microprocessor @ 50MHz • Small, low-profile board (1.186” x 2.006” x 0.11”) • 10/100 Base-T Ethernet • PCI Express form factor

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM5700 Module	316-1153-ND	35.00	20-101-1235
RCM5750 Module	316-1183-ND◆ ***NEW!***	45.00	20-101-1306
RCM5760 Module	316-1182-ND◆ ***NEW!***	55.00	20-101-1307
Prototyping Board	316-1165-ND◆	35.00	20-101-1252
Serial Communication Board	316-1166-ND◆	40.00	20-101-1253
Digital I/O Board	316-1167-ND◆	37.00	20-101-1254

◆ ***RoHS Compliant***

RCM5700 Standard or Deluxe Development Kit

Digi-Key Part Number 316-1151-ND (101-1274) Only $99.00
Digi-Key Part Number 316-1152-ND (101-1275) Only $198.57

Jumpstart your evaluation and design efforts with either a standard or deluxe development kit. Both kits includes RCM5700 microprocessor core module, development board with prototyping area, Dynamic C 10 development system and complete documentation on CD-ROM, USB cable for programming and debugging, Getting Started manual. The deluxe kit will include power supplies and additional prototyping board for specific sample programs.

RabbitCore™ RCM2300 Microprocessor Core Module

RabbitCore RCM2300:
- **Board Size:** 1.15" x 1.60" x 0.55" (29mm x 41mm x 14mm)
- **Input Voltage:** 4.75 ~ 5.25VDC
- **Current:** 108mA @ 5VDC
- **Processor:** Rabbit 2000
- **General Purpose I/O:** 29 parallel I/O lines grouped in five 8-bit ports (shared with serial ports)
- **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write (extra address line and Buffer Enable via separate connections)
- **Additional Digital Inputs:** Startup mode, reset
- **Additional Digital Outputs:** Status, reset
- **Clock:** 22.1MHz
- **SRAM:** 128K
- **Flash:** 256K
- **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs
- **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, maximum synchronous is 5.53Mbps. Two ports are configurable as clocked ports
- **Slave Interface:** Allows the RCM2300 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore RCM2300 Development Kit

Digi-Key Part No. 316-1015-ND (101-0480) Only **$199.00**

Kit includes RCM2300 core module (256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2300	316-1089-ND	42.00	20-101-0453

RabbitCore™ RCM3200 Microprocessor Core Module

Designing with RabbitCores:

RabbitCores are powered by high-performance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the Dynamics C® development system. Embedded systems using the Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet.

Programming the RCM3200:

Programs are developed using our industry-proven Dynamics C software development system (SE version included in low-cost development kits). An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

RabbitCore RCM3200:

- **Board Size:** 2.73" x 1.85" x 0.86" (69mm x 47mm x 22mm) (2.73" x 1.85" x 0.48" (69mm x 47mm x 12mm) for 3220)
- **Power:** 3.15 ~ 3.45VDC
- **Current:** 255 mA @ 3.3V
- **Processor:** Rabbit 3000 @ 44.2MHz
- **General Purpose I/O:** 52 digital I/O (44 configurable I/O, 4 fixed inputs, and 4 fixed outputs)
- **Additional Digital Inputs:** 2 Startup Mode, Reset in
- **Additional Digital Outputs:** Status, Reset out
- **Real-Time Clock:** Yes • **SRAM:** 512K program + 256K data
- **Flash:** 512K
- **Timers:** Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers
- **Serial Ports:** 6 CMOS-compatible: 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA), 1 asynchronous clocked serial port dedicated for programming, Support for MIR/SIR IrDA transceiver
- **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller

Additional Features: Ethernet Port for 3200 series only, Watchdog/Supervisor, Pulse-Width Modulators, Quadrature Decoder and Backup Battery

RabbitCore RCM3200 Low-Cost Development Kit

Digi-Key Part No. 316-1023-ND (101-0552) Only **$349.00**

Kit includes RCM3200 RabbitCore, Getting Started manual, DC power supply (U.S. only), prototyping board, Serial Cable for Programming and debugging, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3200	316-1097-ND	89.00	20-101-0520
RCM3220	316-1098-ND	79.00	20-101-0522
RCM3209	316-1150-ND	89.00	20-101-1179
RCM3229	316-1146-ND	79.00	20-101-1217
1.27mm Programming Cable	316-1180-ND	25.00	20-101-0542

RabbitCore™ RCM3600 Core Module

Features:

- 3.3V operation
- Powerful Rabbit 3000 processor
- 256K (3610) ~ 512K (3600) Flash Memory
- 128K (3610) ~ 512K (3600) SRAM
- 33 digital I/O • 4 Serial Ports
- Size: 2.11" x 1.23" (54mm x 31mm)

Design Advantages:

- Low Cost Solution
- Ready made platform for easy design implementation
- Compact Size
- Dynamic C® development environment for real-time developing and debugging
- Fast performance for math, Logic, and I/O

RabbitCore RCM3600 Development Kit

Digi-Key Part Number 316-1037-ND (101-0678) Only **$299.00**

The RCM3600 Development Kit includes RCM3600 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3600	316-1102-ND	49.00	20-101-0672
RCM3610	316-1103-ND	45.00	20-101-0673

RabbitCore™ RCM3700 Core Module

Features:

- 512K Flash (256K for 3710) • 512K SRAM (128K for 3710 and 256K for 3720) • 3.3V operation • Powerful Rabbit 3000 processor • 33 digital I/O • 4 Serial Ports

Design Advantages:

- Low Cost Solution
- Ready Made platform for easy design implementation
- Compact Size
- Dynamic C® development environment for real-time developing and debugging
- Fast performance for math, Logic, and I/O

RabbitCore RCM3700 Development Kit

Digi-Key Part Number 316-1038-ND (101-0680) Only **$299.00**

The RCM3700 Development Kit includes RCM3700 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

RabbitCore RCM3720 Development Kit

Digi-Key Part Number 316-1065-ND (101-0963) Only **$199.00**

The RCM3720 Development Kit includes RCM3720 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3700	316-1104-ND	59.00	20-101-0674
RCM3710	316-1105-ND	57.00	20-101-0675
RCM3720	316-1107-ND	55.00	20-101-0961

PowerCore Flex™ 3800/3810

With available on-board power supply, analog features, and the fastest Rabbit 3000 microprocessor the PowerCore bridges the gap between microcontrollers and single board computers.

With the introduction of the PowerCore, Rabbit Semiconductor has added over 1000 new core modules to its product line through FLEXible manufacturing.

Featuring customizable options such as microprocessor speed, power supply, memory, analog features and Ethernet capability, PowerCore Rabbit Core Modules can be customized at the Rabbit Semiconductor website via the user-friendly On-Line Flex Configurator Tool.

Features:

- Clock speed up to 51.6MHz
- On-board Power Supply (10VAC ~ 60VAC, 8VDC ~ 43VDC)
- On-board analog (AC Crossover, ramp generator, temperature sensor)
- 512K Flash
- Maximum 1MB SRAM (512K code/512K data)
- Maximum 1MB Serial Flash
- 39 general-purpose I/O
- 10/100 Compatible Ethernet

PowerCoreRCM3800 Development Kit

Digi-Key Part Number 316-1070-ND (101-1016)

Only $169.00

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore RCM3810 Development Kit

Digi-Key Part Number 316-1071-ND (101-1018)

Only $138.00

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore Flex Kit

Digi-Key Part Number 316-1064-ND (101-0956)

Only $99.00

Includes our Dynamic C development system and complete documentation on CD-ROM, a demo board with 4 LEDs, 4 switches and buzzer, serial cable for programming and debugging, Getting Started manual and AC adapter

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
LCD/Keypad Panel Mount	316-1116-ND	99.00	20-101-0541

RabbitCore™
4000/4100/4200/4300 Series

The Rabbit 4000 is fast, running at up to 60MHz, with compact code and direct software support for 16-bit memory devices. It operates at 3.3V I/O standard or can be set to 1.8V for lower power. The Rabbit 4000 boasts 6 serial ports with IrDA, 40+ digital I/O, quadrature decoder, PWM outputs, pulse capture and measurement capabilities, battery-backable real-time clock, glueless memory and I/O interfacing and ultra-low power modes. The RCM4000 microprocessor core module is a powerful embedded Ethernet control device that has the intelligence and internet connectivity that allows your devices to be remotely monitored and controlled from anywhere in the world.

RCM4000 Features: • Rabbit 4000 microprocessor @ 58.98MHz • 512K Flash (1MB for 4050) • 512K data SRAM (1MB for 4050) • 22 parallel digital I/O lines • 4 shared high-speed CMOS-compatible ports • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Power: 3.3V • Board Size: 1.84” x 2.42” x 0.77” (47mm x 61mm x 20mm)

The RCM4100 series is the first of the next generation core modules to take advantage of the new Rabbit 4000 microprocessor.

RCM4100 Features: • Rabbit 4000 microprocessor@ 58.98MHz (29.49MHz for 4110) • 512K Flash • 512K data SRAM (256K for 4110) • Program-Execution Fast SRAM: 512K (None for 4110) • 40 parallel I/O (29 for 4100) • 6 high-speed, CMOS-compatible Ports • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Power: 125mA (typical) @ 3.3V (65mA (typical) @ 3.3V for 4110) • Board Size: 1.41” x 1.88” x 0.49” (36mm x 48mm x 12mm)

The RCM4200 RabbitCore modules are equipped with 10/100 Ethernet connectivity, combined with 4Mbytes or 8Mbytes serial flash memory storage for intensive communication and data logging applications. At the heart of the RCM4200 is the Rabbit 4000 microprocessor which features a clock speed of up to 58.98MHz. The rabbit 4000 boasts and additional 500+ new operational code instructions that increases the processing efficiency, from its predecessor the Rabbit 3000. The RCM4200 RabbitCore modules are easily interchangeable with other RCm4xxx based products due to electrical and functional compatibility.

RCM4200 Features: • Rabbit 4000 microprocessor @ 58.98MHz (29.49MHz for 4210) • Spectrum spreader for reduced EMI • Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs • 512K (8-bit) SRAM and Flash • Serial Flash Memory: 8MB (4MB for 4210) • 25 paralleled digital I/O (35 paralleled digital for 4210) • A/D: 12 bits • Up to 4 serial ports (up to 5 for 4210) • Real Time Clock • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Watchdog/Supervisor • Power: 240mA (typical) @ 3.3V (200mA @ 3.3V for 4210) • Board Size: 1.84” x 2.42” x 0.84” (47mm x 61mm x 21mm)

Secure Embedded Web Application Kit 2.0

Digi-Key Part No. 316-1136-ND (101-1243) $349.00

The kit is a complete out-of-the box solution that enables you to develop secure data transmission for your embedded application. Application code runs on the RCM4300 RabbitCore® module, powered by the Rabbit® 4000 microprocessor that offers a low-cost solution with the performance to run algorithmic-intensive encryption code. The RCM4300 module mounts directly onto a user-designed motherboard and acts as the controlling microprocessor for the system. The kit includes a prototyping board, power supply, and accessories that allow you to build a prototype system and debug your code directly on to the target hardware. Once your design is complete, you are ready to go into production with the RCM4300 module and your fully-debugged design.

All Development Kits include a core module, a development board with prototyping are, Dynamic C 10 development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
CPU RABBIT 4000	316-1078-ND	12.50	20-668-0024
RCM4000	316-1139-ND	89.00	20-101-1094
RCM4050	316-1145-ND	105.00	20-101-1215
RCM4100	316-1121-ND	75.00	20-101-1105
RCM4110	316-1140-ND	45.00	20-101-1093
RCM4120	316-1122-ND	64.00	20-101-1154
RCM4200	316-1124-ND	109.00	20-101-1131
RCM4210	316-1125-ND	99.00	20-101-1132
RCM4110 Development Kit	316-1076-ND	199.00	101-1101

RabbitCore™ 3365/3375 Series

The RCM3365/RCM3375 modules present a new form of embedded flexibility with removable xD-Picture Cards™. Supporting on-board 16MB NAND Flash as well as memory cards of up to 128MB, this RabbitCore is ideal for large data applications requiring low-power operation. (xD-picture card socket only for 3375 Series)

Features:

- Powerful Rabbit 3000 microprocessor @ 44.2MHz
- Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs
- 3.3V operation
- 512K Flash/512K Program + 512K data SRAM
- 49 digital I/O and 5 serial ports
- 52 digital I/O and 6 serial ports
- Board Size: 1.85” x 2.73” x 0.86” (47mm x 69mm x 22mm)

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3365	316-1111-ND	105.00	20-101-1051
RCM3375	316-1112-ND	98.00	20-101-1055

RabbitCore™ 3305/3315 Series

Features: • 3.3V Operation • Powerful Rabbit 3000A microprocessor • 512K Flash/512K SRAM • 8MB Serial Flash for 3305 and 4MB for 3315 • 49 digital I/O • 5 Serial Ports
Design Advantages: • Ready-Made Platforms for quick design to market • Compact size • Dynamic C® development environment for real-time developing and debugging • Fast performance for math, logic and I/O

RabbitCore RCM3305 Development Kit

Digi-Key Part No. 316-1129-ND (101-1069) Only $399.00

The RCM3305 Development Kit includes RCM3305 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3305	316-1113-ND	119.00	20-101-1067
RCM3315	316-1114-ND	99.00	20-101-1068

RabbitCore™ 3750 Series

The RCM3750 RabbitCore mounts directly onto a user-designed motherboard using a single dual-row IDC header and can interface with all CMOS-compatible digital devices. Digital I/O (shared with serial ports), power and other signals are directly routed to the motherboard. Built-In low EMI features, including a clock spectrum spreader, practically eliminate EMI problems, which helps OEMs pass European CE and other regulatory RF emissions tests.
Features: • Rabbit 3000 microprocessor at 22.1MHz • 512K Flash and SRAM • 1MB Serial Flash • 33 digital I/O (31 configurable I/O and 2 fixed outputs) • Four 3.3V CMOS-compatible Serial Ports • Real-Time Clock • Ten 8-bit timers • Watchdog/Supervisor • 4 PWM output channels • Input: 4.75 ~ 5.25VDC, 175mA @ 22.1MHz; 150mA @ 11.05MHz • Board Size: 2.95” x 1.20” x 0.89” (75mm x 30mm x 23mm)

RabbitCore RCM3750 Development Kit

Digi-Key Part No. 316-1117-ND (101-1050) Only $329.00

The RCM3750 Development Kit includes RCM3750 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3750	316-1110-ND	74.00	20-101-1028

RabbitCore™
RCM3900 Series - Ethernet and Extended Temperature

The RCM3900 RabbitCore modules are compact devices that incorporate the Rabbit 3000 microprocessor, memory and removable memory. Both of the RCM3900 modules have an integrated 10/100Base-T Ethernet port which allows you to build LAN and Internet-enabled systems as easily as building any serial communications system.

RabbitCore RCM3900 Development Kit

Digi-Key Part No. 316-1137-ND (101-1226) Only $399.00

The Development Kit provides the essentials that you need to design your own microprocessor-based system, and includes a complete Dynamic C® software development system. The Development Kit also contains a Prototyping Board that will allow you to evaluate the RCM3900 module and to prototype circuits that interface to the module.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3900	316-1155-ND	91.88	20-101-1196

MiniCore™
RCM5600W Series

The MiniCore RCM5600W module offers 802.11b/g Wi-Fi connectivity which includes WPA2, WPA and WEP security standards, allowing easy integration and interoperability within Wi-Fi networks. With six serial ports, four configurable as SPI, the RCM5600W can easily embed into any existing or new design and is pin compatible with current and future MiniCore products.

Features: • Rabbit 5000 running at 74MHz • On-board single-chip 802.11b/g transceiver • Up to 35 GP I/O lines and six serial ports • 1MB SRAM and 1MB serial flash memory • Built-in web server • Certified to meet FCC and other international regulatory requirements • Easy-to-use integrated design environment

MiniCore RCM5600W Standard Development Kit

Digi-Key Part No. 316-1160-ND (101-1284) Only $149.00

Contains RCM5600W module and antenna, interface board, prototyping board, USB cable, and Dynamic C IDE. (Note: may require the addition of power adapter to support the interface board, part number 101-1273)

MiniCore RCM5600W Deluxe Development Kit

Digi-Key Part No. 316-1161-ND (101-1285) Only $249.00

Includes everything in the Standard Development Kit plus a power adapter, digital I/O and serial communications accessory boards, and a DB9 to 10-pin header serial cable.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM5600W Module	316-1174-ND	69.00	20-101-1265
Antenna Cable Assembly	316-1163-ND	15.97	101-1292

C8051F High Performance Mixed-Signal MCUs

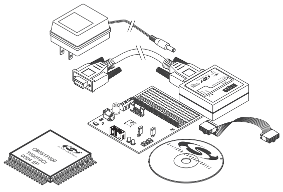

Precision Mixed-Signal Microcontrollers
Full-Featured MCUs with a Supercharged 8051 CPU

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	ADC2	DAC	Comp-arators	Other	Internal Oscil-lator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
128K	8448	64	5	6	2 UARTs, SMBus™, SPI1™	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1081-1-ND*	34.01	25.20	20.32	C8051F122R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1082-1-ND*	32.88	24.36	19.64	C8051F123R	C8051F120DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1089-1-ND*	16.29	12.54	10.45	C8051F064	C8051F064EK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch.,500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1035-1-ND*	23.16	16.67	13.23	C8051F023R	C8051F020DK
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1042-1-ND*	21.84	15.71	12.47	C8051F017R	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1006-1-ND*	20.37	14.66	11.63	C8051F011R	C8051F005DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1049-1-ND*	17.46	12.56	9.97	C8051F019R	C8051F005DK
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-QFN	336-1085-1-ND*	7.12	5.75	4.76	C8051F351R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-QFN	336-1087-1-ND*	5.38	4.34	3.59	C8051F353R	C8051F350DK
RoHS Compliant																			
128K	8448	64	5	6	2 UARTs, SMBus™, SPI1™	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1223-ND	21.81	20.53	19.25	C8051F120-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1226-ND	20.20	19.01	17.82	C8051F122-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1228-ND	19.13	18.00	16.88	C8051F124-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1230-ND	17.53	16.50	15.47	C8051F126-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1232-ND	15.61	14.69	13.77	C8051F130-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1225-ND	21.11	19.88	18.63	C8051F121-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1227-ND	19.55	18.40	17.25	C8051F123-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	64-TQFP	336-1229-ND	18.41	17.33	16.25	C8051F125-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	64-TQFP	336-1231-ND	16.86	15.88	14.88	C8051F127-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1233-ND	14.98	14.10	13.22	C8051F131-GQ	C8051F120DK
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1234-ND	13.07	12.31	11.54	C8051F132-GQ	C8051F120DK
64K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1235-ND	12.43	11.70	10.97	C8051F133-GQ	C8051F120DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	100-TQFP	336-1199-ND	17.80	16.76	15.71	C8051F020-GQ	C8051F020DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	100-TQFP	336-1202-ND	14.16	13.33	12.50	C8051F022-GQ	C8051F020DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1218-ND	12.55	11.81	11.07	C8051F064-GQ	C8051F060DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1201-ND	17.17	16.16	15.15	C8051F021-GQ	C8051F020DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1203-ND	13.14	12.37	11.60	C8051F023-GQ	C8051F020DK
64K	4352	25	4	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 200ksps	—	—	2	—	±0.25%	48	32-LQFP	336-1533-ND	8.40	7.91	7.41	C8051F34A-GQ	C8051F340DK
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1220-ND	12.17	11.46	10.74	C8051F065-GQ	C8051F060DK
32K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1221-ND	11.85	11.16	10.46	C8051F066-GQ	C8051F060DK
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1222-ND	11.37	10.71	10.04	C8051F067-GQ	C8051F060DK
32K	2304	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1187-ND	13.26	12.48	11.70	C8051F005-GQ	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1194-ND	12.53	11.80	11.06	C8051F015-GQ	C8051F005DK
32K	2304	25	4	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 200ksps	—	—	2	—	±0.25%	48	32-LQFP	336-1534-ND	7.29	6.87	6.44	C8051F34B-GQ	C8051F340DK
32K	2304	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1189-ND	12.92	12.16	11.40	C8051F006-GQ	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1195-ND	12.33	11.60	10.88	C8051F016-GQ	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1190-ND	12.61	11.88	11.13	C8051F007-GQ	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1184-ND	12.38	11.65	10.92	C8051F000-GQ	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1191-ND	11.59	10.92	10.23	C8051F010-GQ	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1192-ND	11.37	10.71	10.04	C8051F011-GQ	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1186-ND	11.99	11.28	10.58	C8051F002-GQ	C8051F005DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Separate I/O	±1.5%	25	28-QFN	336-1296-5-ND	3.37	3.17	2.97	C8051F326-GM	C8051F326DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Fixed I/O	±1.5%	25	28-QFN	336-1297-5-ND	3.37	3.17	2.97	C8051F327-GM	C8051F326DK
16K	1280	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	64-TQFP	336-1197-ND	10.12	9.52	8.93	C8051F018-GQ	C8051F005DK
16K	1280	21	4	5	UART, SMBus, SPI	10-Bit, 13-Ch.,200ksps	—	—	2	—	±2%	25	24-QFN	336-1281-5-ND	3.91	3.68	3.45	C8051F316-GM	C8051F310DK
16K	1280	21	4	5	UART, SMBus™, SPI™	—	—	—	2	—	±2%	25	24-QFN	336-1282-5-ND	3.47	3.27	3.06	C8051F317-GM	C8051F310DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1198-ND	9.76	9.19	8.61	C8051F019-GQ	C8051F005DK
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	32-LQFP	336-1270-ND	6.82	6.42	6.02	C8051F350-GQ	C8051F350DK

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

C8051F High Performance Mixed-Signal MCU

Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU *(Cont.)*

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	ADC2	DAC	Comp-arators	Other	Internal Oscil-lator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-QFN	336-1271-ND	5.59	5.27	4.94	C8051F351-GM	C8051F350DK
8K	768	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	32-LQFP	336-1272-ND	5.05	4.76	4.46	C8051F352-GQ	C8051F350DK
8K	256	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-QFN	336-1273-ND	4.23	3.99	3.74	C8051F353-GM	C8051F350DK
8K	256	8	3	3	UART, SMBus	8-Bit, 11-Ch., 500ksps	—	8-Bit	1	—	±2%	25	14-SOIC	336-1535-5-ND	2.53	2.39	2.24	C8051F300-GS	C8051F300DK
8K	256	8	3	3	UART, SMBus	8-Bit, 11-Ch., 500ksps	—	—	1	—	±2%	25	14-SOIC	336-1536-5-ND	2.41	2.28	2.13	C8051F301-GS	C8051F300DK
8K	256	8	3	3	UART, SMBus	8-Bit, 11-Ch., 500ksps	—	—	1	—	±2%	25	14-SOIC	336-1537-5-ND	2.36	2.23	2.09	C8051F302-GS	C8051F300DK
2K	256	8	3	3	UART, SMBus	—	—	—	1	—	±2%	25	14-SOIC	336-1540-5-ND	1.97	1.86	1.74	C8051F305-GS	C8051F300DK

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8kB ISP Flash MCU Family

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	Comp-arators	Other	Internal Oscillator	MIPS (peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
8K	256	6	3	3	LIN 2.0, SPI™, UART	12-Bit, 6-Ch., 200ksps	1	VREG	±0.5%	25	10-DFN	336-1484-5-ND	2.55	C8051F520A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-QFN	336-1485-5-ND	2.60	C8051F530A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-TSSOP	336-1486-5-ND	2.91	C8051F530A-IT	C8051F530ADK
8K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch., 200ksps	1	VREG	±0.5%	25	10-DFN	336-1490-5-ND	2.50	C8051F521A-IM	C8051F530ADK
4K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch., 200ksps	1	VREG	±0.5%	25	10-DFN	336-1492-5-ND	2.35	C8051F524A-IM	C8051F530ADK
2K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch., 200ksps	1	VREG	±0.5%	25	10-DFN	336-1494-5-ND	2.14	C8051F527A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-QFN	336-1495-5-ND	2.55	C8051F531A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-TSSOP	336-1496-5-ND	2.86	C8051F531A-IT	C8051F530ADK
4K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-QFN	336-1497-5-ND	2.45	C8051F533A-IM	C8051F530ADK
4K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-TSSOP	336-1500-5-ND	2.67	C8051F534A-IT	C8051F530ADK
2K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-QFN	336-1503-5-ND	2.19	C8051F537A-IM	C8051F530ADK
2K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-TSSOP	336-1504-5-ND	2.45	C8051F537A-IT	C8051F530ADK

General Purpose Microcontrollers Outstanding Value for Comprehensive MCUs

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	Serial Buses	ADC1	Compar-ators	Internal Oscil-lator	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
											1	25	100		
8K	256	22	3	UART, SPI™	8-Bit, 32-Ch. 100ksps	2	±20%	25	32-LQFP	336-1009-1-ND*	5.03	3.62	2.87	C8051F221R	C8051F226DK
8K	256	22	3	UART, SPI	—	2	±20%	25	32-LQFP	336-1012-1-ND*	4.80	3.46	2.74	C8051F231R	C8051F226DK
32K	256	25	4	SMBus™, SPI, UART	—	2	±25%	25	32-LQFP	336-1509-ND◆	6.12	5.76	5.40	C8051F349-GQ	C8051F340DK
32K	256	40	4	SMBus, SPI, UART	—	2	±25%	25	48-TQFP	336-1508-ND◆	6.66	6.28	5.88	C8051F348-GQ	C8051F340DK

◆ ***RoHS Compliant*** * Cut Tape

USB Microcontrollers Integrated USB 2.0 Function Controller

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	Comparators	Internal Oscillator	MIPS (peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
64K	5376	40	4	5	USB 2.0, SPI™, 2UART, SMBus™	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1298-ND	8.48	C8051F340-GQ	C8051F340DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1300-ND	8.23	C8051F342-GQ	C8051F340DK
64K	5376	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1302-ND	8.23	C8051F344-GQ	C8051F340DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1304-ND	7.80	C8051F346-GQ	C8051F340DK
64K	4352	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	48	32-QFN	336-1345-5-ND	8.23	C8051F342-GM	C8051F340DK
64K	4352	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	25	32-QFN	336-1347-5-ND	7.80	C8051F346-GM	C8051F340DK
64K	4352	25	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	48	32-QFN	336-1350-5-ND	8.40	C8051F34A-GM	C8051F340DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1299-ND	7.57	C8051F341-GQ	C8051F340DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1301-ND	7.16	C8051F343-GQ	C8051F340DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1303-ND	7.16	C8051F345-GQ	C8051F340DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1305-ND	6.58	C8051F347-GQ	C8051F340DK
32K	2304	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	48	32-QFN	336-1346-5-ND	7.16	C8051F343-GM	C8051F340DK
32K	2304	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	25	32-QFN	336-1348-5-ND	6.58	C8051F347-GM	C8051F340DK
32K	2304	25	4	5	USB 2.0, SPI, UART, SMBus	—	2	±.25%	25	32-QFN	336-1349-5-ND	6.12	C8051F349-GM	C8051F340DK
32K	2304	25	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±.25%	48	32-QFN	336-1351-5-ND	7.29	C8051F34B-GM	C8051F340DK
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1259-ND	5.90	C8051F320-GQ	C8051F320DK
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 13-Ch., 200ksps	2	±1.5%	25	28-QFN	336-1261-ND	5.03	C8051F321-GM	C8051F320DK

Small Form Factor Microcontrollers High-Performance MCU in a Tiny Package

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	DAC	Compar-ators	Internal Oscil-lator	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
8K	256	8	3	3	UART, SMBus™	—	—	1	±20%	25	11-QFN	336-1046-1-ND*	3.37	2.41	1.93	C8051F303R	C8051F300DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-QFN	336-1063-1-ND*	3.01	2.15	1.72	C8051F304R	C8051F300DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-QFN	336-1064-1-ND*	2.91	2.08	1.67	C8051F305R	C8051F300DK
RoHS Compliant																	
32K	2368	24	4	6	UART, SPI™ SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	32-LQFP	336-1318-ND	6.58	6.20	5.81	C8051F410-GQ	C8051F410DK
32K	2368	20	4	6	UART, SPI, SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	28-QFN	336-1309-ND	5.29	4.98	4.67	C8051F411-GM	C8051F410DK
32K	1K	39	4	6	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	48-TQFP	336-1407-ND	7.38	6.95	6.51	C8051F360-GQ	C8051F360DK

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(Continued)

C8051F High Performance Mixed-Signal MCUs

Small Form Factor Microcontrollers High-Performance MCU in a Tiny Package *(Cont.)*

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	DAC	Compar-ators	Internal Oscil-lator	MIPS (peak)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
32K	1K	27	4	6	UART, SMBus™, SPI™	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	32-LQFP	336-1408-ND	6.85	6.45	6.05	C8051F361-GQ	C8051F360DK
32K	1K	24	4	6	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	28-QFN	336-1409-5-ND	5.78	5.44	5.10	C8051F362-GM	C8051F360DK
32K	1280	39	4	6	UART, SMBus, SPI	—	—	2	±2%	100	48-TQFP	336-1645-ND	6.31	5.94	5.57	C8051F363-GQ	C8051F360DK
32K	1280	27	4	6	UART, SMBus, SPI	—	—	2	±2%	100	32-LQFP	336-1646-ND	6.00	5.65	5.30	C8051F364-GQ	C8051F360DK
32K	1280	24	4	6	UART, SMBus, SPI	—	—	2	±2%	100	28-QFN	336-1647-ND	5.20	4.90	4.59	C8051F365-GM	C8051F360DK
32K	1280	29	4	6	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	10-Bit	2	±2%	50	32-LQFP	336-1648-ND	5.75	5.41	5.07	C8051F366-GQ	C8051F360DK
32K	1280	25	4	6	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	10-Bit	2	±2%	50	28-QFN	336-1649-ND	4.96	4.68	4.38	C8051F367-GM	C8051F360DK
16K	1280	29	4	6	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	10-Bit	2	±2%	50	32-LQFP	336-1650-ND	5.47	5.16	4.83	C8051F368-GQ	C8051F360DK
16K	1280	25	4	6	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	10-Bit	2	±2%	50	28-QFN	336-1651-ND	4.74	4.47	4.19	C8051F369-GM	C8051F360DK
16K	2368	24	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	32-LQFP	336-1310-ND	5.95	5.60	5.25	C8051F412-GQ	C8051F410DK
16K	2368	20	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	28-QFN	336-1311-ND	4.91	4.63	4.34	C8051F413-GM	C8051F410DK
16K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1252-ND	4.85	4.56	4.28	C8051F310-GQ	C8051F310DK
16K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-QFN	336-1254-ND	4.34	4.08	3.83	C8051F311-GM	C8051F310DK
8K	1280	32	3	—	UART, SPI	12-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1236-ND	4.49	4.23	3.96	C8051F206-GQ	C8051F206DK
8K	1280	32	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1240-ND	3.91	3.68	3.45	C8051F226-GQ	C8051F226DK
8K	1280	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1244-ND	3.64	3.43	3.21	C8051F236-GQ	C8051F226DK
8K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1255-ND	3.77	3.56	3.33	C8051F312-GQ	C8051F310DK
8K	1280	29	4	5	UART, SMBus, SPI	—	—	2	±2%	25	32-LQFP	336-1257-ND	3.18	3.00	2.81	C8051F314-GQ	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-QFN	336-1256-ND	3.50	3.30	3.09	C8051F313-GM	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	—	—	2	±2%	25	28-QFN	336-1258-ND	2.96	2.79	2.61	C8051F315-GM	C8051F310DK
8K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	1	±2%	25	20-MLP	336-1262-ND	3.60	3.40	3.18	C8051F330-GM	C8051F330DK
8K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-QFN	336-1265-ND	3.23	3.04	2.85	C8051F331-GM	C8051F330DK
8K	256	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1242-ND	3.49	3.28	3.08	C8051F230-GQ	C8051F226DK
8K	256	22	3	—	UART, SPI	—	—	2	±20%	25	32-LQFP	336-1243-ND	3.15	2.96	2.78	C8051F231-GQ	C8051F226DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	11-QFN	336-1245-ND	2.53	2.39	2.24	C8051F300-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-QFN	336-1247-ND	2.41	2.28	2.13	C8051F301-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±20%	25	11-QFN	336-1248-ND	2.36	2.23	2.09	C8051F302-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-QFN	336-1249-ND	2.28	2.15	2.01	C8051F303-GM	C8051F300DK
4K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	—	1	±2%	25	20-MLP	336-1266-ND	2.69	2.53	2.37	C8051F332-GM	C8051F330DK
4K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1267-ND	2.47	2.32	2.18	C8051F333-GM	C8051F330DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-QFN	336-1250-ND	2.02	1.91	1.79	C8051F304-GM	C8051F300DK
2K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1269-ND	2.04	1.92	1.80	C8051F335-GM	C8051F330DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-QFN	336-1251-ND	1.97	1.86	1.74	C8051F305-GM	C8051F300DK

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CAN Interface Microcontrollers — MCUs with Integrated CAN 2.0B Controller

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	ADC2	DAC	Comp-arators	Other	Internal Oscil-lators	MIPS (Peak)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus™, SPI™	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1156-ND	8.75	7.66	6.46	C8051F044	C8051F040DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1074-1-ND*	19.24	14.80	12.33	C8051F062R	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1073-1-ND*	20.60	15.85	13.21	C8051F061R	C8051F060DK
64K	4352	24	5	6	CAN2.0B 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1075-1-ND*	18.72	14.41	12.01	C8051F063R	C8051F060DK
RoHS Compliant																			
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1204-ND	12.68	11.94	11.19	C8051F040-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1207-ND	10.88	10.24	9.60	C8051F042-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1209-ND	8.84	8.32	7.80	C8051F044-GQ	C8051F040DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1213-ND	17.44	16.42	15.39	C8051F060-GQ	C8051F060DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1216-ND	14.82	13.96	13.08	C8051F062-GQ	C8051F060DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1206-ND	12.19	11.48	10.76	C8051F041-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1208-ND	10.44	9.83	9.21	C8051F043-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1210-ND	8.36	7.88	7.38	C8051F045-GQ	C8051F040DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1215-ND	15.86	14.93	14.00	C8051F061-GQ	C8051F060DK
32K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1211-ND	8.30	7.81	7.32	C8051F046-GQ	C8051F040DK
32K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1212-ND	7.77	7.32	6.86	C8051F047-GQ	C8051F040DK
16KB	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch. 200ksps	—	10-Bit, 1-Ch.	1	—	±2% LFO	25	20-QFN	336-1429-5-ND	3.96	3.73	3.50	C8051F336-GM	C8051F336DK
16KB	768	17	4	3	UART, SMBus, SPI	—	—	—	1	—	±2% LFO	25	20-QFN	336-1428-5-ND	3.37	3.17	2.97	C8051F337-GM	C8051F336DK
16KB	768	21	4	3	UART, SMBus, SPI	10-Bit, 16-Ch. 200ksps	—	10-Bit, 1-Ch.	1	—	±2% LFO	25	24-QFN	336-1427-5-ND	4.03	3.80	3.56	C8051F338-GM	C8051F336DK
16KB	768	21	4	3	UART, SMBus, SPI	—	—	—	1	—	±2% LFO	25	24-QFN	336-1426-5-ND	3.40	3.20	3.00	C8051F339-GM	C8051F336DK

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Automotive

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC	Comp-arators	Temperature Range	Internal Oscil-lator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
64K	256	40	4	6	SMBus™, SPI™, UART	12-Bit, 32-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFP	336-1510-ND	5.56	C8051F500-IQ	C8051F500DK
64K	256	40	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFN	336-1511-5-ND	5.51	C8051F500-IM	C8051F500DK
64K	256	40	4	6	SMBus, SPI, UART	12-Bit, 28-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFP	336-1512-ND	5.29	C8051F501-IQ	C8051F500DK
64K	256	40	4	6	SMBus, SPI, UART	12-Bit, 28-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFN	336-1513-5-ND	5.22	C8051F501-IM	C8051F500DK
64K	256	25	4	6	SMBus, SPI, UART	12-Bit, 28-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	32-QFP	336-1514-ND	5.39	C8051F502-IQ	C8051F500DK
64K	256	25	4	6	SMBus, SPI, UART	12-Bit, 28-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	32-QFN	336-1515-5-ND	4.95	C8051F502-IM	C8051F500DK
64K	256	25	4	6	SMBus, SPI, UART	12-Bit, 28-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	32-QFN	336-1517-5-ND	4.71	C8051F503-IM	C8051F500DK
32K	256	40	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFP	336-1518-ND	5.24	C8051F504-IQ	C8051F500DK
32K	256	40	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40˚C ~ 125˚C	±0.5%	50	48-QFN	336-1519-5-ND	5.17	C8051F504-IM	C8051F500DK

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C8051F High Performance Mixed-Signal MCUs

Automotive *(Cont.)*

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC	Comp-arators	Temperature Range	Internal Oscil-lator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
32K	256	40	4	6	SMBus™, SPI™, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	48-QFP	336-1520-ND	4.95	C8051F505-IQ	C8051F500DK
32K	256	40	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	48-QFN	336-1521-5-ND	4.90	C8051F505-IM	C8051F500DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1522-ND	5.07	C8051F506-IQ	C8051F500DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1523-5-ND	4.66	C8051F506-IM	C8051F500DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1524-ND	4.79	C8051F507-IQ	C8051F500DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1525-5-ND	4.40	C8051F507-IM	C8051F500DK
64K	4K	33	4	6	CAN 2.0, LIN 2.1, SPI, UART, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1560-5-ND ***NEW!***	5.36	C8051F508-IM	C8051F500DK
64K	4K	33	4	6	SPI, UART, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1561-5-ND ***NEW!***	5.08	C8051F509-IM	C8051F500DK
32K	4K	33	4	6	CAN 2.0, LIN 2.1, SPI, UART, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1562-5-ND ***NEW!***	5.03	C8051F510-IM	C8051F500DK
32K	4K	33	4	6	SPI, UART, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1563-5-ND ***NEW!***	4.76	C8051F511-IM	C8051F500DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1670-5-ND	3.13	C8051F540-IM	C8051F540DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1671-ND	3.52	C8051F540-IQ	C8051F540DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1673-5-ND	3.08	C8051F541-IM	C8051F540DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1674-ND	3.45	C8051F541-IQ	C8051F540DK
16K	256	18	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1675-5-ND	2.98	C8051F542-IM	C8051F540DK
16k	256	18	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1676-5-ND	2.92	C8051F543-IM	C8051F540DK
8K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1677-5-ND	2.94	C8051F544-IM	C8051F540DK
8K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1678-ND	3.32	C8051F544-IQ	C8051F540DK
8K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1679-5-ND	2.89	C8051F545-IM	C8051F540DK
8K	256	25	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1680-ND	3.23	C8051F545-IQ	C8051F540DK
8K	256	18	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1681-5-ND	2.81	C8051F546-IM	C8051F540DK
8K	256	18	4	6	SMBus, SPI, UART	12-Bit, 25-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1682-5-ND	2.74	C8051F547-IM	C8051F540DK
32K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1683-5-ND	3.57	C8051F550-IM	C8051F560DK
32K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1684-5-ND	3.50	C8051F551-IM	C8051F560DK
32K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1685-5-ND	3.47	C8051F552-IM	C8051F560DK
32K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1686-5-ND	3.40	C8051F553-IM	C8051F560DK
16K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1687-5-ND	3.37	C8051F554-IM	C8051F560DK
16K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1688-5-ND	3.30	C8051F555-IM	C8051F560DK
16K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1689-5-ND	3.26	C8051F556-IM	C8051F560DK
16K	256	18	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	24-QFN	336-1690-5-ND	3.18	C8051F557-IM	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1692-5-ND	3.74	C8051F560-IM	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1693-ND	4.13	C8051F560-IQ	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1695-5-ND	3.66	C8051F561-IM	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1696-ND	4.05	C8051F561-IQ	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1697-5-ND	3.62	C8051F562-IM	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1698-ND	4.00	C8051F562-IQ	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1699-5-ND	3.55	C8051F563-IM	C8051F560DK
32K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1700-ND	3.91	C8051F563-IQ	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1701-5-ND	3.52	C8051F564-IM	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1702-ND	3.88	C8051F564-IQ	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1703-5-ND	3.43	C8051F565-IM	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1704-ND	3.79	C8051F565-IQ	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1705-5-ND	3.40	C8051F566-IM	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1706-ND	3.76	C8051F566-IQ	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1707-5-ND	3.33	C8051F567-IM	C8051F560DK
16K	256	25	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1708-ND	3.67	C8051F567-IQ	C8051F560DK
32K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1709-5-ND	4.18	C8051F568-IM	C8051F560DK
32K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1710-5-ND	4.10	C8051F569-IM	C8051F560DK
32K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1711-5-ND	4.06	C8051F570-IM	C8051F560DK
32K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1712-5-ND	3.98	C8051F571-IM	C8051F560DK
16K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1713-5-ND	3.93	C8051F572-IM	C8051F560DK
16K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1714-5-ND	3.84	C8051F573-IM	C8051F560DK
16K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1715-5-ND	3.81	C8051F574-IM	C8051F560DK
16K	256	33	4	6	SMBus, SPI, UART	12-Bit, 32-Ch., 200ksps	2	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1716-5-ND	3.67	C8051F575-IM	C8051F560DK
128K	8K	40	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	40-QFP	336-1564-ND ***NEW!***	7.57	C8051F580-IQ	C8051F580DK
128K	8K	40	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFN	336-1565-5-ND ***NEW!***	7.50	C8051F580-IM	C8051F580DK
128K	8K	40	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFP	336-1566-ND ***NEW!***	7.19	C8051F581-IQ	C8051F580DK
128K	8K	40	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFN	336-1567-5-ND ***NEW!***	7.12	C8051F581-IM	C8051F580DK
128K	8K	25	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1568-ND ***NEW!***	7.38	C8051F582-IQ	C8051F580DK
128K	8K	25	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1569-5-ND ***NEW!***	6.92	C8051F582-IM	C8051F580DK
128K	8K	25	6	2x6	SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1570-ND ***NEW!***	7.00	C8051F583-IQ	C8051F580DK
128K	8K	25	6	2x6	SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1571-5-ND ***NEW!***	6.58	C8051F583-IM	C8051F580DK
96K	8K	40	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFP	336-1572-ND ***NEW!***	7.11	C8051F584-IQ	C8051F580DK
96K	8K	40	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFN	336-1573-5-ND ***NEW!***	7.06	C8051F584-IM	C8051F580DK
96K	8K	40	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFP	336-1574-ND ***NEW!***	6.73	C8051F585-IQ	C8051F580DK
96K	8K	40	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	48-QFN	336-1575-5-ND ***NEW!***	6.68	C8051F585-IM	C8051F580DK
96K	8K	25	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1576-ND ***NEW!***	6.94	C8051F586-IQ	C8051F580DK
96K	8K	25	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1577-5-ND ***NEW!***	6.51	C8051F586-IM	C8051F580DK
96K	8K	25	6	2x6	SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFP	336-1578-ND ***NEW!***	6.56	C8051F587-IQ	C8051F580DK
96K	8K	25	6	2x6	SPI, 2xUARTs, I^{2}C	12-Bit, 25-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	32-QFN	336-1579-5-ND ***NEW!***	6.17	C8051F587-IM	C8051F580DK
128K	8K	33	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1580-5-ND ***NEW!***	7.34	C8051F588-IM	C8051F580DK
128K	8K	33	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1581-5-ND ***NEW!***	6.97	C8051F589-IM	C8051F580DK
96K	8K	33	6	2x6	CAN 2.0, LIN 2.1, SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1582-5-ND ***NEW!***	6.90	C8051F590-IM	C8051F580DK
96K	8K	33	6	2x6	SPI, 2xUARTs, I^{2}C, EMIF	12-Bit, 32-Ch., 200ksps	3	-40°C ~ 125°C	±0.5%	50	40-QFN	336-1583-5-ND ***NEW!***	6.53	C8051F591-IM	C8051F580DK

NEW! Mixed Signal ISP Flash MCU Family

Flash Memory (kB)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Channels	Serial Buses	ADC	Comparators	Temperature Range	Internal Oscillator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
15	512	54	4	3	UART, I^{2}C, SPI™	10-Bit	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1605-ND	6.32	C8051F700-GQ	C8051F700DK
15	512	54	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1607-ND	5.80	C8051F701-GQ	C8051F700DK
16	512	54	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1608-ND	6.32	C8051F702-GQ	C8051F700DK
16	512	54	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1609-ND	5.80	C8051F703-GQ	C8051F700DK
15	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1610-5-ND	5.85	C8051F704-GM	C8051F700DK
15	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1612-5-ND	5.34	C8051F705-GM	C8051F700DK
15	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1613-ND	5.07	C8051F705-GQ	C8051F700DK
16	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1604-5-ND	5.85	C8051F706-GM	C8051F700DK
16	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1636-ND	5.53	C8051F706-GQ	C8051F700DK
16	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1606-5-ND	5.34	C8051F707-GM	C8051F700DK
16	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1638-ND	5.07	C8051F707-GQ	C8051F700DK
8	512	54	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1639-ND	5.27	C8051F708-GQ	C8051F700DK
8	512	54	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1640-ND	4.74	C8051F709-GQ	C8051F700DK
8	512	54	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1641-ND	5.02	C8051F710-GQ	C8051F700DK
8	512	54	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	64-TQFP	336-1642-ND	4.49	C8051F711-GQ	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1643-5-ND	4.85	C8051F712-GM	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1644-ND	4.59	C8051F712-GQ	C8051F700DK

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NEW! Mixed Signal ISP Flash MCU Family *(Cont.)*

Flash Memory (kB)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Channels	Serial Buses	ADC	Comparators	Temperature Range	Internal Oscillator	MIPS (Peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
8	512	39	4	3	UART, I^{2}C, SPI™	—	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1614-5-ND	4.34	C8051F713-GM	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1615-ND	4.13	C8051F713-GQ	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1616-5-ND	4.08	C8051F714-GM	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1617-ND	3.89	C8051F714-GQ	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-QFN	336-1618-5-ND	3.83	C8051F715-GM	C8051F700DK
8	512	39	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	48-TQFP	336-1619-ND	3.66	C8051F715-GQ	C8051F700DK
16	512	29	4	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	32-QFN	336-1960-5-ND	3.28	C8051F716-GM	C8051F700DK
16	512	20	4	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QFN	336-1961-5-ND	2.74	C8051F717-GM	C8051F700DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1766-5-ND	4.03	C8051F800-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1767-5-ND	4.03	C8051F800-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1768-5-ND	3.71	C8051F801-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1769-5-ND	3.71	C8051F801-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1770-5-ND	3.38	C8051F802-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1771-5-ND	3.38	C8051F802-GU	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1772-5-ND	3.86	C8051F803-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1773-5-ND	3.71	C8051F804-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	28	16-SOIC	336-1774-5-ND	3.38	C8051F805-GS	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1775-5-ND	3.83	C8051F806-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1776-5-ND	3.83	C8051F806-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1777-5-ND	3.50	C8051F807-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1778-5-ND	3.50	C8051F807-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1779-5-ND	3.18	C8051F808-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1780-5-ND	3.18	C8051F808-GU	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1781-5-ND	3.67	C8051F809-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1782-5-ND	3.50	C8051F810-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1783-5-ND	3.18	C8051F811-GS	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1784-5-ND	3.42	C8051F812-GM	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1785-5-ND	3.42	C8051F812-GU	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	28	20-QFN	336-1786-5-ND	3.09	C8051F813-GM	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1787-5-ND	3.09	C8051F813-GU	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1788-5-ND	2.79	C8051F814-GM	C8051F800DK
8	512	17	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1789-5-ND	2.79	C8051F814-GU	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1790-5-ND	3.26	C8051F815-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1791-5-ND	3.09	C8051F816-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1792-5-ND	2.79	C8051F817-GS	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1798-5-ND	3.23	C8051F818-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1793-5-ND	3.23	C8051F818-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1799-5-ND	2.91	C8051F819-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1794-5-ND	2.91	C8051F819-GU	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	20-QFN	336-1800-5-ND	2.58	C8051F820-GM	C8051F800DK
16	512	17	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	24-QSOP	336-1795-5-ND	2.58	C8051F820-GU	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1801-5-ND	3.06	C8051F821-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1802-5-ND	2.91	C8051F822-GS	C8051F800DK
16	512	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1803-5-ND	2.58	C8051F823-GS	C8051F800DK
8	512	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1804-5-ND	3.15	C8051F824-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1805-5-ND	2.98	C8051F825-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1806-5-ND	2.65	C8051F826-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1807-5-ND	2.94	C8051F827-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1808-5-ND	2.79	C8051F828-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1809-5-ND	2.47	C8051F829-GS	C8051F800DK
8	256	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1810-5-ND	2.64	C8051F830-GS	C8051F800DK
4	256	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1811-5-ND	2.47	C8051F831-GS	C8051F800DK
4	256	13	3	3	UART, I^{2}C, SPI	10-Bit	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1812-5-ND	2.14	C8051F832-GS	C8051F800DK
4	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1813-5-ND	2.43	C8051F833-GS	C8051F800DK
4	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1814-5-ND	2.26	C8051F834-GS	C8051F800DK
4	256	13	3	3	UART, I^{2}C, SPI	—	1	-40°C ~ 85°C	±2%	25	16-SOIC	336-1815-5-ND	1.94	C8051F835-GS	C8051F800DK

Low Power MCUs

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	Compar-ators	Other	Internal Oscillator	MIPS (peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
64K	4352	24	4	6	UART, EMIF, SMBus™, 2SPI™	10-Bit, 23-Ch., 300ksps	2	SmaRTClock; up to 23 touch sense inputs	±2%	25	32-LQFP	336-1466-ND	5.73	C8051F930-GQ	C8051F930DK
64K	4352	24	4	6	UART, EMIF, SMBus, 2SPI	10-Bit, 23-Ch., 300ksps	2	SmaRTClock; up to 23 touch sense inputs	±2%	25	32-QFN	336-1467-ND	4.83	C8051F930-GM	C8051F930DK
64K	4352	16	4	6	UART, SMBus, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock; up to 15 touch sense inputs	±2%	25	24-QFN	336-1468-ND	4.32	C8051F931-GM	C8051F930DK
32K	4352	24	4	6	UART, EMIF, SMBus, 2SPI	10-Bit, 23-Ch., 300ksps	2	SmaRTClock; up to 23 touch sense inputs	±2%	25	32-LQFP	336-1469-ND	5.08	C8051F920-GQ	C8051F930DK
32K	4352	24	4	6	UART, EMIF SMBus, 2SPI	10-Bit, 23-Ch., 300ksps	2	SmaRTClock; up to 23 touch sense inputs	±2%	25	32-QFN	336-1470-ND	4.30	C8051F920-GM	C8051F930DK
32K	4352	16	4	6	UART, SMBus, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock; up to 15 touch sense inputs	±2%	25	24-QFN	336-1471-ND	3.88	C8051F921-GM	C8051F930DK
16K	768	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock	±2%	25	24-QFN	336-1850-5-ND ***NEW!***	3.25	C8051F911-GM	C8051F912DK
16K	768	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock	±2%	25	24-SOIC	336-1851-5-ND ***NEW!***	3.40	C8051F911-GU	C8051F912DK
16K	768	16	4	6	UART, I^{2}C, 2SPI	12-Bit, 15-Ch., 75ksps	2	SmaRTClock	±2%	25	24-SOIC	336-1852-5-ND ***NEW!***	3.67	C8051F912-GU	C8051F912DK
8K	768	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock	±2%	25	24-QFN	336-1846-5-ND ***NEW!***	2.92	C8051F901-GM	C8051F912DK
8K	768	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	SmaRTClock	±2%	25	24-SOIC	336-1847-5-ND ***NEW!***	3.08	C8051F901-GU	C8051F912DK
8K	768	16	4	6	UART, I^{2}C, 2SPI	12-Bit, 15-Ch., 75ksps	2	SmaRTClock	±2%	25	24-QFN	336-1848-5-ND ***NEW!***	3.20	C8051F902-GM	C8051F912DK
8K	768	16	4	6	UART, I^{2}C, 2SPI	12-Bit, 15-Ch., 75ksps	2	SmaRTClock	±2%	25	24-SOIC	336-1849-5-ND ***NEW!***	3.35	C8051F902-GU	C8051F912DK

(Continued)

C8051F High Performance Mixed-Signal MCUs

Low Power MCUs *(Cont.)*

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	Compar-ators	Other	Internal Oscillator	MIPS (peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
8K	512	16	4	3	I^{2}C, SPI™, UART	10/12-Bit	1	SmaRTClock	±2%	25	20-QFN	336-1941-5-ND ***NEW!***	2.96	C8051F990-GM	C8051F996DK
8K	512	16	4	3	I^{2}C, SPI, UART	10/12-Bit	1	SmaRTClock	±2%	25	20-QFN	336-1942-5-ND ***NEW!***	2.67	C8051F991-GM	C8051F996DK
8K	512	17	4	3	I^{2}C, SPI, UART	10/12-Bit	1	SmaRTClock	±2%	25	24-QFN	336-1943-5-ND ***NEW!***	3.11	C8051F996-GM	C8051F996DK
8K	512	17	4	3	I^{2}C, SPI, UART	10/12-Bit	1	SmaRTClock	±2%	25	24-QSOP	336-1944-5-ND ***NEW!***	3.11	C8051F996-GU	C8051F996DK
8K	512	17	4	3	I^{2}C, SPI, UART	10/12-Bit	1	SmaRTClock	±2%	25	24-QFN	336-1945-5-ND ***NEW!***	2.83	C8051F997-GM	C8051F996DK
8K	512	17	4	3	I^{2}C, SPI, UART	10/12-Bit	1	SmaRTClock	±2%	25	24-QSOP	336-1946-5-ND ***NEW!***	2.83	C8051F997-GU	C8051F996DK
8K	512	16	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	20-QFN	336-1947-5-ND ***NEW!***	2.00	C8051F981-GM	C8051F996DK
8K	512	16	4	3	UART, I^{2}C, SPI	12-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	20-QFN	336-1948-5-ND ***NEW!***	2.28	C8051F980-GM	C8051F996DK
8K	512	17	4	3	UART, I^{2}C, SPI	12-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QFN	336-1952-5-ND ***NEW!***	2.39	C8051F986-GM	C8051F996DK
8K	512	17	4	3	UART, I^{2}C, SPI	12-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QSOP	336-1953-5-ND ***NEW!***	2.39	C8051F986-GU	C8051F996DK
8K	512	17	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QFN	336-1954-5-ND ***NEW!***	2.10	C8051F987-GM	C8051F996DK
8K	512	17	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QSOP	336-1955-5-ND ***NEW!***	2.10	C8051F987-GU	C8051F996DK
4K	512	16	4	3	UART, I^{2}C, SPI	10-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	20-QFN	336-1949-5-ND ***NEW!***	2.05	C8051F982-GM	C8051F996DK
4K	512	16	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	20-QFN	336-1950-5-ND ***NEW!***	1.87	C8051F983-GM	C8051F996DK
4K	512	17	4	3	UART, I^{2}C, SPI	10-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QFN	336-1959-5-ND ***NEW!***	2.15	C8051F988-GM	C8051F996DK
4K	512	17	4	3	UART, I^{2}C, SPI	10-Bit	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QSOP	336-1956-5-ND ***NEW!***	2.15	C8051F988-GU	C8051F996DK
4K	512	17	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QFN	336-1957-5-ND ***NEW!***	1.95	C8051F989-GM	C8051F996DK
4K	512	17	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	24-QSOP	336-1958-5-ND ***NEW!***	1.95	C8051F989-GU	C8051F996DK
2K	512	16	4	3	UART, I^{2}C, SPI	—	1	150µA/MHZ active, 10nA sleep	±2%	25	20-QFN	336-1951-5-ND ***NEW!***	1.79	C8051F985-GM	C8051F996DK

NEW! Wireless MCUs

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	Compar-ators	Other	Frequency Range (MHz)	FSK/GFS K (kbps)	Internal Oscillator	MIPS (peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
64	4352	22	4	6	UART, I^{2}C, SPI™	10-Bit, 18-Ch., 300ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1881-5-ND	8.18	SI1000-C-GM	SI1000DK
64	4352	22	4	6	UART, I^{2}C, SPI	10-Bit, 18-Ch., 300ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1878-5-ND	7.72	SI1002-C-GM	SI1000DK
64	4352	19	4	6	UART, I^{2}C, SPI	10-Bit, 15-Ch., 300ksps	2	RTC, CRC, DC-DC	240 ~ 960	256	±2%	25	42-QFN	336-1876-5-ND	7.84	SI1004-C-GM	SI1000DK
32	4352	22	4	6	UART, I^{2}C, SPI	10-Bit, 18-Ch., 300ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1877-5-ND	7.29	SI1003-C-GM	SI1000DK
32	4352	22	4	6	UART, I^{2}C, SPI	10-Bit, 18-Ch., 300ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1879-5-ND	7.75	SI1001-C-GM	SI1000DK
32	4352	19	4	6	UART, I^{2}C, SPI	10-Bit, 15-Ch., 300ksps	2	RTC, CRC, DC-DC	240 ~ 960	256	±2%	25	42-QFN	336-1875-5-ND	7.38	SI1005-C-GM	SI1000DK
16	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1874-5-ND	6.72	SI1010-A-GM	SI1010DK
16	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1871-5-ND	6.31	SI1012-A-GM	SI1010DK
16	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC, DC-DC	240 ~ 960	256	±2%	25	42-QFN	336-1869-5-ND	6.43	SI1014-A-GM	SI1010DK
8	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1872-5-ND	6.34	SI1011-A-GM	SI1010DK
8	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC	240 ~ 960	256	±2%	25	42-QFN	336-1870-5-ND	5.97	SI1013-A-GM	SI1010DK
8	768	15	4	6	UART, I^{2}C, SPI	12-Bit, 11-Ch., 75ksps	2	RTC, CRC, DC-DC	240 ~ 960	256	±2%	25	42-QFN	336-1868-5-ND	6.07	SI1015-A-GM	SI1010DK

C8051T High Performance Mixed-Signal MCUs OTP

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chan-nels	Serial Buses	ADC1	DAC	Comp-arators	Other	Internal Oscil-lators	MIPS (Peak)	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
16K	1280	29	4	5	UART, SMBus™	10-Bit, 8-Ch., 500ksps	—	2	—	±2%	25	32-LQFP	336-1435-ND	3.49	C8051T610-GQ	C8051T610DK
8K	768	17	4	3	UART, SPI™, SMBus	10-Bit, 16-Ch., 500ksps	10-Bit, 1-Ch.	1	VREG, LFO	±2%	25	20-QFN	336-1458-5-ND	1.82	C8051T630-GM	C8051T630DK
8K	768	17	4	3	UART, SPI, SMBus	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1459-5-ND	1.75	C8051T631-GM	C8051T630DK
8K	256	8	3	3	UART, SMBus	10-Bit, 8-Ch., 500ksps	—	1	VREG	±2%	25	14-SOIC	336-1403-5-ND	1.24	C8051T600-GS	C8051T600DK
8K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	11-QFN	336-1652-5-ND	1.17	C8051T601-GM	C8051T600DK
8K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	14-SOIC	336-1653-5-ND	1.17	C8051T601-GS	C8051T600DK
4K	768	17	4	3	UART, SPI, SMBus	10-Bit, 16-Ch., 500ksps	10-Bit, 1-Ch.	1	VREG, LFO	±2%	25	20-QFN	336-1460-5-ND	1.45	C8051T632-GM	C8051T630DK
4K	768	17	4	3	UART, SPI, SMBus	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1461-5-ND	1.39	C8051T633-GM	C8051T630DK
4K	256	8	3	3	UART, SMBus	10-Bit, 8-Ch., 500ksps	—	1	—	±2%	25	11-QFN	336-1654-5-ND	1.12	C8051T602-GM	C8051T600DK
4K	256	8	3	3	UART SMBus	10-Bit, 8-Ch., 500ksps	—	1	—	±2%	25	14-SOIC	336-1655-5-ND	1.12	C8051T602-GS	C8051T600DK
4K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	11-QFN	336-1656-5-ND	1.07	C8051T603-GM	C8051T600DK
4K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	14-SOIC	336-1657-5-ND	1.07	C8051T603-GS	C8051T600DK
2K	768	17	4	3	UART, SPI, SMBus	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1463-5-ND	1.28	C8051T635-GM	C8051T630DK
2K	256	8	3	3	UART, SMBus	10-Bit, 8-Ch., 500ksps	—	1	—	±2%	25	11-QFN	336-1658-5-ND	1.02	C8051T604-GM	C8051T600DK
2K	256	8	3	3	UART, SMBus	10-Bit, 8-Ch., 500ksps	—	1	—	±2%	25	14-SOIC	336-1659-5-ND	1.02	C8051T604-GS	C8051T600DK
2K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	11-QFN	336-1660-5-ND	.99	C8051T605-GM	C8051T600DK
2K	256	8	3	3	UART, SMBus	—	—	1	—	±2%	25	14-SOIC	336-1661-5-ND	.99	C8051T605-GS	C8051T600DK
1.5K	128	6	3	3	UART, SMBus	—	—	1	—	±2%	25	11-QFN	336-1662-5-ND	.90	C8051T606-GM	C8051T606DK
1.5K	128	6	3	3	UART, SMBus	—	—	1	—	±2%	25	10-QFN	336-1663-1-ND*	1.19	C8051T606-ZM	C8051T606DK
1.5K	128	6	3	3	UART, SMBus	—	—	1	—	±2%	25	10-QFN	336-1663-2-ND‡	1150.20/1,500	C8051T606-ZM	C8051T606DK
1.5K	128	6	3	3	UART, SMBus	—	—	1	—	±2%	25	10-MSOP	336-1664-5-ND	.87	C8051T606-GT	C8051T606DK

* Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

SILICON LABS

Microcontroller Development Tools

Development Kits: • Complete development/prototyping system • Prototyping/demonstration board • In-system Flash programming • In-circuit debugging • MCU configuration wizard **IDE:** • Source code editor, project manager • Flash programmer • Supports full-speed, non-intrusive in-circuit debug logic • Real-time breakpoints, source-level debug • Conditional memory watch points • Memory and register inspect/modify • Single-step and animated execution modes • Variable watch window

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Development Kit for F005/006/007	336-1188-ND	69.00	C8051F005DK
Development Kit for F020/F021/F022/F023	336-1200-ND	79.00	C8051F020DK
Development Kit for F040/F041/F042/F043	336-1205-ND	179.00	C8051F040DK
Development Kit for F060/F062/F063	336-1214-ND	179.00	C8051F060DK
Evaluation Kit for C8051F064	336-1219-ND	99.00	C8051F064EK
Development Kit for-F120/21/22/23/24/25/26/27	336-1224-ND	99.00	C8051F120DK
Development Kit for C8051F206	336-1237-ND	69.00	C8051F206DK
Development Kit for F220/221/226/230/231/236	336-1241-ND	69.00	C8051F226DK
Development Kit for F300/301/302/303/304/305	336-1246-ND	69.00	C8051F300DK
Development Kit for C8051F310/F311	336-1253-ND	69.00	C8051F310DK
Development Kit for C8051F320/F321	336-1260-ND	99.00	C8051F320DK
Development Kit for C8051F326/7	336-1306-ND	99.00	C8051F326DK
Development Kit for C8051F330/F331	336-1264-ND	69.00	C8051F330DK
Development Kit for C8051F336	336-1430-ND◆	99.00	C8051F336DK
Development Kit for C8051F34X	336-1307-ND	99.00	C8051F340DK
Development Kit for F350/351/352/353	336-1083-ND	99.00	C8051F350DK
Development Kit for C8051F360 Family	336-1410-ND◆	99.00	C8051F360DK
Development Kit for C8051F700 Family	336-1635-ND◆ ***NEW!***	99.00	C8051F700DK
Board Target/Proto with C8051F360	336-1412-ND◆	50.00	C8051F360-TB
Development Kit for C8051F41X	336-1314-ND	99.00	C8051F410DK
Evaluation Kit for C8051F411	336-1317-ND	29.00	C8051F411EK
Board Prototype with C8051F500	336-1526-ND◆	50.00	C8051F500-TB
Board Prototype with C8051F700	336-1637-ND◆ ***NEW!***	49.00	C8051F700-TB
Development Kit for C8051F50X	336-1527-ND◆	99.00	C8051F500DK
Development Kit for C8051F53XA, C8051F52XA	336-1488-ND◆	99.00	C8051F530ADK
Board Target/Proto with C8051F530A	336-1489-ND◆	50.00	C8051F530A-TB
Development Kit for C8051F540	336-1669-ND◆	99.00	C8051F540DK
Board Prototype with C8051F540	336-1672-ND◆	50.00	C8051F540-TB
Development Kit for C8051F560	336-1691-ND◆	99.00	C8051F560DK
Board Prototype with C8051F560	336-1694-ND◆	50.00	C8051F560-TB
Board Prototype with C8051F930	336-1853-ND ***NEW!***	51.25	C8051F912-TB
Development Kit for C8051F91X, C8051F90X	336-1854-ND ***NEW!***	99.00	C8051F912DK
Development Kit for C8051T60X MCU'S	336-1404-ND	99.00	C8051T600DK
Board Daughter For C8051T600E	336-1665-ND◆	9.00	C8051T600EDB
Development Kit for C8051T606	336-1666-ND◆	99.00	C8051T606DK
Development Kit for C8051T61X MCU'S	336-1443-ND◆	129.00	C8051T610DK
Evaluation Board for C8051F800	336-1796-ND ***NEW!***	49.00	C8051F800-TB
Development Kit for C8051F800	336-1797-ND ***NEW!***	99.00	C8051F800DK
Development Kit for C8051F996	336-1963-ND ***NEW!***	99.00	C8051F996DK
Daughter Board T610 24QFN Socket	336-1507-ND◆	49.00	C8051T610DB24
Daughter Board T610 28QFN Socket	336-1506-ND◆	49.00	C8051T610DB28
Daughter Board T610 32TQFP Socket	336-1505-ND◆	25.00	C8051T610DB32
Development Kit for C8051T630 Family	336-1464-ND◆	149.00	C8051T630DK
Board Socket Daughter 20-QFN	336-1465-ND◆	45.00	C8051T630DB20
Development Kit for C8051F920,F921,F930,F931	336-1473-ND◆	99.00	C8051F930DK
Board Target/Proto with C8051F930	336-1472-ND◆	51.25	C8051F930-TB
USB Debug Adapter	336-1182-ND	35.00	DEBUGADPTR1-USB
ToolStick C8051F300 Evaluation Board	336-1278-ND	11.63	TOOLSTICK-EK
ToolStick Base Adapter	336-1345-ND	18.63	TOOLSTICKBA
ToolStick C8051F320/321 Daughter Card	336-1480-ND◆	10.50	TOOLSTICK321DC
ToolStick C8051F326/327 Daughter Card	336-1481-ND◆	10.50	TOOLSTICK327DC
ToolStick C8051F330 Daughter Card	336-1346-ND	10.50	TOOLSTICK330DC
ToolStick C8051F34x Daughter Card	336-1482-ND◆	10.50	TOOLSTICK342DC
ToolStick C8051F362 Daughter Card	336-1411-ND	10.50	TOOLSTICK360DC
ToolStick C8051F336 Daughter Card	336-1431-ND◆	10.50	TOOLSTICK336DC
ToolStick C8051F500 Daughter Card F500	336-1528-ND◆	10.50	TOOLSTICK502DC
ToolStick C8051F530 Daughter Card	336-1487-ND◆	10.50	TOOLSTICK530ADC
ToolStick C8051F540 Daughter Card	336-1717-ND◆	10.50	TOOLSTICK540DC
ToolStick C8051F560 Daughter Card	336-1719-ND◆	10.50	TOOLSTICK560DC
Daughter Card ToolStick for F582	336-1584-ND◆ ***NEW!***	10.50	TOOLSTICK582DC
Daughter Card ToolStick for F912	336-1866-ND ***NEW!***	10.50	TOOLSTICK912DC
Platform Program ToolStick for F588	336-1585-ND◆ ***NEW!***	69.00	TOOLSTICK588PP
Daughter Card C8051F8XX	336-1822-ND ***NEW!***	9.90	TOOLSTICK800DC
ToolStick C8051F931 Daughter Card	336-1474-ND◆	18.63	TOOLSTICK931DC
ToolStick C8051F990 Daughter Card	336-1964-ND◆ ***NEW!***	10.50	TOOLSTICK990DC
University Starter Kit and Book	336-1432-ND	55.00	MCUNIVERSITYKIT
University ToolStick Starter Kit	336-1433-ND◆	40.00	TOOLSTICKUNISK

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
University ToolStick Daughter Card	336-1434-ND	25.00	TOOLSTICKUNIDC
University Prototyping Board	336-1542-ND	15.00	UNIPROTOBOARD
Prototyping Board	336-1543-ND	20.00	ABO
ToolStick Debug Adapter	336-1347-ND	9.50	TOOLSTICKDA
ToolStick Starter Kit	336-1348-ND	26.56	TOOLSTICKSK
ToolStick Adapter Program F300	336-1444-ND	69.00	TOOLSTICK300PP
ToolStick Adapter Program F310	336-1445-ND	69.00	TOOLSTICK310PP
ToolStick Adapter Program F311	336-1446-ND	69.00	TOOLSTICK311PP
ToolStick Adapter Program F316	336-1447-ND	69.00	TOOLSTICK316PP
ToolStick Adapter Program F320	336-1448-ND	69.00	TOOLSTICK320PP
ToolStick Adapter Program F321	336-1449-ND	69.00	TOOLSTICK321PP
ToolStick Adapter Program F326	336-1450-ND	69.00	TOOLSTICK326PP
ToolStick Adapter Program F330	336-1451-ND	69.00	TOOLSTICK330PP
ToolStick Adapter Program F330	336-1541-ND◆	35.00	TOOLSTICK330DPP
ToolStick Adapter Program F340	336-1452-ND	69.00	TOOLSTICK340PP
ToolStick Adapter Program F360/363	336-1483-ND◆	69.00	TOOLSTICK360PP
ToolStick Adapter Program F410	336-1453-ND	69.00	TOOLSTICK410PP
ToolStick Adapter Program F411	336-1454-ND	69.00	TOOLSTICK411PP
ToolStick Adapter Program F500	336-1530-ND◆	69.00	TOOLSTICK500MPP
ToolStick Adapter Program F502	336-1532-ND◆	69.00	TOOLSTICK502MPP
ToolStick Adapter Program F520	336-1455-ND	69.00	TOOLSTICK520PP
ToolStick Adapter Program F530MPP	336-1456-ND	69.00	TOOLSTICK530MPP
ToolStick Adapter Program F530TPP	336-1457-ND	69.00	TOOLSTICK530TPP
ToolStick Adapter Program F542	336-1718-ND◆	69.00	TOOLSTICK542PP
ToolStick Adapter Program F91X	336-1867-ND ***NEW!***	69.00	TOOLSTICK912UPP
ToolStick Adapter for C8051F34X	336-1748-ND◆ ***NEW!***	69.00	TOOLSTICK342MPP
ToolStick Programming Platform F500	336-1529-ND◆	69.00	TOOLSTICK500QPP
ToolStick Programming Platform F502	336-1531-ND◆	69.00	TOOLSTICK502QPP
ToolStick Programming Platform F716	336-1966-ND◆ ***NEW!***	10.50	TOOLSTICK716MPP
ToolStick Programming Platform F717	336-1967-ND◆ ***NEW!***	69.00	TOOLSTICK717MPP
ToolStick Programming Platform F8XX	336-1824-ND ***NEW!***	69.00	TOOLSTICK800QPP
ToolStick Programming Platform F8XX	336-1825-ND ***NEW!***	69.00	TOOLSTICK800SPP
ToolStick Programming Platform F930	336-1477-ND◆	69.00	TOOLSTICK930QPP
ToolStick Programming Platform F930	336-1478-ND◆	69.00	TOOLSTICK930MPP
ToolStick Programming Platform F931	336-1479-ND◆	69.00	TOOLSTICK931PP
ToolStick Programming Platform F990	336-1965-ND◆ ***NEW!***	69.00	TOOLSTICK990MPP
CAP TOUCH SENSE Start Kit	336-1475-ND◆	36.90	CAPTOUCHSENSESK
CAP TOUCH SENSE Daughter Card	336-1476-ND◆	20.00	CAPTOUCHSENSEDC
Daughter Card Socket MSOP	336-1667-ND◆	19.00	C8051T606TDB
Daughter Card Socket 10-QFN	336-1668-ND◆	29.00	C8051T606ZDB
Development Kit Keyboard	336-1620-ND◆ ***NEW!***	52.50	KEYBOARDEK
Evaluation Board Proximity F8XX SI1120	336-1816-ND ***NEW!***	39.99	FRONTPANEL2EK
Evaluation Board IR Slider SI1120	336-1817-ND ***NEW!***	49.99	IRSLIDEREK
Evaluation Board ITO Film F800	336-1818-ND ***NEW!***	79.99	KEYMATEK
Optical Proximity Detector	336-1819-5-ND◆ ***NEW!***	2.38	SI1102-A-GM
Proximity Ambient Light Sensor with PWM Output	336-1820-5-ND◆ ***NEW!***	2.64	SI1120-A-GM
Development Kit for SI101X	336-1880-ND◆ ***NEW!***	99.00	SI1000DK
Development Kit for SI101X	336-1873-ND◆ ***NEW!***	99.00	SI1010DK
Evaluation Kit for SI1120	336-1821-ND ***NEW!***	199.99	SI1120EK
Evaluation Kit for SI1102	336-1826-ND ***NEW!***	39.99	SI1102EK
Evaluation Board for SI1000	336-1892-ND◆ ***NEW!***	70.00	1000-TCB1C915
Evaluation Board for SI1000	336-1893-ND◆ ***NEW!***	70.00	1000-TCB1C470
Evaluation Board for SI1002	336-1890-ND◆ ***NEW!***	70.00	1002-TCB1D868
Evaluation Board for SI1002	336-1891-ND◆ ***NEW!***	70.00	1002-TCB1D434
Evaluation Board for SI1004	336-1888-ND◆ ***NEW!***	70.00	1004-TCB1D868
Evaluation Board for SI1004	336-1889-ND◆ ***NEW!***	70.00	1004-TCB1D434
Evaluation Board for SI1010	336-1886-ND◆ ***NEW!***	70.00	1010-TAB1C915
Evaluation Board for SI1010	336-1887-ND◆ ***NEW!***	70.00	1010-TAB1C470
Evaluation Board for SI1012	336-1884-ND◆ ***NEW!***	70.00	1012-TAB1D868
Evaluation Board for SI1012	336-1885-ND◆ ***NEW!***	70.00	1012-TAB1D434
Evaluation Board for SI1014	336-1882-ND◆ ***NEW!***	70.00	1014-TAB1D868
Evaluation Board for SI1014	336-1883-ND◆ ***NEW!***	70.00	1014-TAB1D434
Demo Touch Front Panel for C8051F700	336-1845-ND ***NEW!***	39.99	FRONTPANEL1EB
Slider Evaluation Kit for C8051F990	336-1962-ND◆ ***NEW!***	29.99	F990SLIDEREK
Wireless M-Bus Development Kit	336-1896-ND ***NEW!***	99.00	WIRELESSMBUSEK

◆ ***RoHS Compliant***

Microcontroller Reference Designs

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Stepper Motor Reference Design	336-1319-ND	119.00	STEPPER-MTR-RD
USB Mass Storage Reference Design	336-1320-ND	99.00	USB-MSD-RD
Temperature Compensated RTC Reference Design	336-1351-ND	99.00	TEMPCOMPRTC-RD
Multi-Phase POL Reference Design	336-1323-ND	199.00	MULTIPHSPOL-RD
PoE with Voice Transmission Reference Design	336-1326-ND	69.00	POE-VOICE-RD
Sensorless BLDC Motor Reference Design	336-1329-ND	119.00	SLBLDC-MTR-RD
CAN On-Board Diagnostic Reference Design	336-1559-ND	69.00	CAN-OBD-RD
Voice Recorder Reference Design Kit	336-1315-ND	49.00	VOICE-RECORD-RD
Reference Design Wireless to USB	336-1865-ND ***NEW!***	49.00	RF-TO-USB-RD

SILICON LABS

Interface Products

AC Current Sensors

The Si85xx products are unidirectional AC current sensors available in full-scale ranges of 5,10 and 20A. Si85xx products are ideal upgrades for older current-sensing technologies offering size, performance and cost advantages over current transformers, Hall effect devices, DCR circuits and other approaches. The Si85xx products are extremely low loss, adding less than 1.3mΩ of series resistance and less than 2nH series inductance in the sensing path at 25°C. Current-sensing terminals are isolated from the other package pins, providing up to 5kV$_{RMS}$ isolation level per safety approval ratings.

Features: Single-chip AC current sensor • Leading-edge noise suppression eliminates need for leading-edge blanking • "Ping-Pong" output version allows one Si85xx to replace two low current transformers in full-bridge designs • FAULT output helps safeguard operation • ±5% initial accuracy • Large 2 Vpp minimum output at full scale • High-side or low-side current sensing • -40°C ~ 125°C operating range • 12-QFN and 20-SOIC packages
Applications: Power supplies • Motor controls • Lighting equipment • Industrial equipment

Current (A)	Output Mode	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
5	Single	12-QFN	336-1718-5-ND	.92	.87	.81	SI8501-C-IM
10	Single	12-QFN	336-1719-5-ND	.95	.90	.84	SI8502-C-IM
20	Single	12-QFN	336-1720-5-ND	1.00	.95	.89	SI8503-C-IM
5	Single	20-SOIC	336-1721-5-ND	1.26	1.19	1.11	SI8501-C-IS
10	Single	20-SOIC	336-1722-5-ND	1.31	1.24	1.16	SI8502-C-IS
20	Single	20-SOIC	336-1723-5-ND	1.38	1.30	1.22	SI8503-C-IS
5	Ping-Pong	12-QFN	336-1724-5-ND	1.00	.95	.89	SI8511-C-IM
10	Ping-Pong	12-QFN	336-1725-5-ND	1.04	.98	.92	SI8512-C-IM
20	Ping-Pong	12-QFN	336-1726-5-ND	1.09	1.03	.96	SI8513-C-IM
5	Ping-Pong	20-SOIC	336-1727-5-ND	1.38	1.30	1.22	SI8511-C-IS
10	Ping-Pong	20-SOIC	336-1728-5-ND	1.43	1.35	1.26	SI8512-C-IS
20	Ping-Pong	20-SOIC	336-1729-5-ND	1.50	1.41	1.32	SI8513-C-IS
5	Ping-Pong	12-QFN	336-1730-5-ND	1.00	.95	.89	SI8517-C-IM
10	Ping-Pong	12-QFN	336-1731-5-ND	1.04	.98	.92	SI8518-C-IM
20	Ping-Pong	12-QFN	336-1732-5-ND	1.09	1.03	.96	SI8519-C-IM
5	Ping-Pong	20-SOIC	336-1733-5-ND	1.38	1.30	1.22	SI8517-C-IS
10	Ping-Pong	20-SOIC	336-1734-5-ND	1.43	1.35	1.26	SI8518-C-IS
20	Ping-Pong	20-SOIC	336-1735-5-ND	1.50	1.41	1.32	SI8519-C-IS
Current Sensor Evaluation Board 10A			336-1425-ND	19.95	—	—	SI85XX-EVB

NEW! LCD Controllers

The CP240x extremely low power LCD controller devices can drive up to 128 LCD segments. These devices are easily interfaced with any microcontroller using SPI or I^{2}C interfaces. A benefit to this approach is designers can select the best-fit MCU for the system and then add the CP240x to handle LCD requirements efficiently with respect to system size and power consumption.

LCD Segments	I/O Pins	Serial Bus	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
128	36	SPI	48-QFN	336-1855-5-ND◆	1.90	1.80	1.68	CP2400-GM
128	36	SPI	48-TQFP	336-1856-ND◆	1.90	1.80	1.68	CP2400-GQ
128	36	I^{2}C	48-QFN	336-1859-5-ND◆	1.90	1.80	1.68	CP2401-GM
128	36	I^{2}C	48-TQFP	336-1860-ND◆	1.90	1.80	1.68	CP2401-GQ
64	20	SPI	32-QFN	336-1863-5-ND◆	1.33	1.25	1.17	CP2402-GM
64	20	I^{2}C	32-QFN	336-1864-5-ND◆	1.33	1.25	1.17	CP2403-GM
Evaluation Board for the CP2400				336-1857-ND	35.00	—	—	CP2400AB
Evaluation Board for the CP2401				336-1861-ND	35.00	—	—	CP2401AB
Development Kit for the CP2400				336-1758-ND	129.00	—	—	CP2400DK
Development Kit for the CP2401				336-1862-ND	129.00	—	—	CP2401DK

◆ ***RoHS Compliant***

Buffers

Frequency MHz	Input	Output Format	Outputs	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
5 ~ 700	Differential	3.3V LVPECL	4	24-QFN	336-1549-5-ND	3.45	3.25	3.05	SI5330A-A00200-GM
5 ~ 700	Differential	3.3V LVDS	4	24-QFN	336-1550-5-ND	3.45	3.25	3.05	SI5330B-A00204-GM
5 ~ 250	Differential	3.3V HCSL	4	24-QFN	336-1551-5-ND	2.82	2.66	2.49	SI5330C-A00207-GM
5 ~ 200	Single-Ended	3.3V CMOS	8	24-QFN	336-1552-5-ND	1.48	1.40	1.31	SI5330F-A00214-GM

SPI to I^{2}C Bridge

A Single-chip SPI to I^{2}C bridge and GPIO port expander that allows a SPI master to communicate as an I^{2}C master device. **Features:** • 4-wire SPI bus operates at frequencies up to 1MHz • Fully functional I^{2}C master transmit and receive operation • I^{2}C data at frequencies configurable up to 400kHz • 255 byte data receive and transmit buffers • Internal oscillator • 2.4V ~ 3.6V operation • Active LOW interrupt output • 5 volt tolerant I/O pins • 8 general purpose I/O pins

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
SPI-I^{2}C Bridge Device and GPIO Port Expander	336-1324-ND	2.41	CP2120-GM

USB to UART Bridge

The CP210x is a single-chip USB to UART bridge that converts data traffic between USB and UART formats. The chip includes a complete USB 2.0 full-speed function controller, bridge control logic and a UART interface with transmit/receive buffers and modem handshake signals. The device also features on-board EEPROM, a voltage regulator, a USB transceiver and an integrated internal oscillator, eliminating external components generally required in USB applications. System development is further simplified by the CP210xEK evaluation kit, which includes a complete USB to RS-232 evaluation board and royalty-free device drivers for PC and Macintosh platforms.

EEPROM (bytes)	RAM (bytes)	Digital Port I/O Pins	Serial Buses	Internal Oscillator	Other	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.
1024	1kB	—	UART to USB Bridge	Yes	Voltage Regulator host I/O	28-QFN	336-1161-ND	29.00	CP2102EK
1024	1kB	4	UART to USB Bridge	Yes	Voltage Regulator RS485, Split VDDIO	28-QFN	336-1163-ND	29.00	CP2103EK

USB 2.0 (Mbps)	EEPROM	Clock	UART Baud Rates	RX/TX Buffer	Package	Digi-Key Part No.	Price Each	Tape and Reel Pricing 1,500	Silicon Labs Part No.
RoHS Compliant									
12	512B	Internal	300bps ~ 921.6kbps	512B	28-QFN (5mm x 5mm)	336-1162-ND	3.77	—	CP2101-GM
12	1024B	Internal	300bps ~ 1Mbits	576B / 640B	28-QFN (5mm x 5mm)	336-1160-ND	3.01	—	CP2102-GM
12	1024B	Internal	300bps ~ 1Mbits	576B / 640B	28-QFN (5mm x 5mm)	336-1802-2-ND‡ ***NEW!***	—	2548.80/M	CP2102-GMR
12	1024B	Internal	300bps ~ 1Mbits	576B / 640B	28-QFN (5mm x 5mm)	336-1164-ND	4.05	—	CP2103-GM

‡ Tape and Reel

Ethernet Controllers

The CP220x is a single-chip Ethernet controller containing an integrated IEEE 802.3-compliant Media Access Controller (MAC), a 10 Base-T Physical Layer (PHY), and 8kB of non-volatile Flash memory available in either a 28-pin QFN (5mm x 5mm), or 48-pin TQFP (9mm x 9mm) package. The on-chip Flash memory may be used to store user constants, web server content, or can be used as general purpose nonvolatile memory. The Flash is factory pre-programmed with a unique 48-bit MAC address stored in the last six memory locations. Having the unique MAC address stored in the CP220x often removes the necessary serialization step from the product manufacturing process of most embedded systems.

Flash (kB)	Parallel Host Interface	Parallel Host Interface Speed	Auto-Negotiation	Pre-Programmed MAC Address	RAM Size	LEDs	Temperature Range	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.	Development Kit Part No.
8	8-bit Non-Multiplexed EMIF	30 Mbps	Yes	Yes	2 kB TX and 4 kB RX Buffer	Separate Link and Activity	-40°C ~ 85°C	48-TQFP (9mm x 9mm)	336-1312-ND◆	6.38	CP2200-GQ	ETHERNETDK
8	8-bit Multiplexed EMIF	25 Mbps	Yes	Yes	2 kB TX and 4 kB RX Buffer	Combined Link and Activity	-40°C ~ 85°C	28-QFN (5mm x 5mm)	336-1313-ND◆	5.41	CP2201-GM	ETHERNETDK
Evaluation Kit for CP2201 Ethernet Controller									336-1316-ND	30.00	CP2201EK	—

◆ ***RoHS Compliant***

Wireline Products

ISOmodem® Embedded Modems

Silicon Laboratories' embedded modem solutions are most feature rich, compact and flexible 2400 baud modems on the market. Available in two 16-pin SOIC packages, the Si2401 and Si2400 embedded modem solutions eliminate the need for a separate DSP data pump, modem controller, codec, isolation transformer, relay, opto-isolators and 2~4 wire hybrid.
Features: • Simple AT command UART interface • Globally compliant line interface • Line-in-use and parallel phone intrusion detection • Caller ID detection and decode

Description	Maximum Data Rate	Voice Codec	Package	System-Side Digi-Key Part No.	Price Each	Silicon Labs Part No.
V.22bis Modem, Chipset	2400 bps	No	16-SOIC	336-1095-ND◆	21.56	SI2401-FS

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Evaluation Board for the SI2400 with a UART Interface	336-1166-ND	150.00	SI2400URT-EVB
Evaluation Board for the SI2401 with a UART Interface	336-1167-ND	150.00	SI2401FS10-EVB
DTMF Decoder Kit	336-1283-ND	149.00	DTMFDECODER-RD
Embedded Ethernet Development Kit	336-1284-ND	119.00	ETHERNETDK
Embedded Modem Development Kit	336-1285-ND	129.00	MODEMDK

◆ ***RoHS Compliant***

Voice CODEC

Features: • Microphone Amplifier • Input Mixer • Headphone Driver • Handset Hybrid • Wide dynamic range in a small footprint • Minimizes external components

Description	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Voice CODEC	16-SOIC	336-1382-ND	1.97	SI3000-C-FS

Power over Ethernet

The Si3400 integrates an IEEE 802.3af compliant interface and complete power management solution for a Power over Ethernet (PoE) powered device (PD) application. The Si3400 converts the high voltage supplied over a 10/100/1000BASE-T Ethernet cable into a regulated low voltage output supply. For applications that require more power than the 11W (max) capability of the Si3400, the Si3401 provides the same feature set as the Si3400 but adds an increased hot swap switch current limit of 470mA (min.), versus the Si3400's 350mA (min.). The Si3401's higher current limit enables it to support applications in the range of 14 ~ 16W.

Description	Current Limit (mA)	Output Power (Max.)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
Integrated PD I/F with PWM Controller	350	11W	20-QFN	336-1385-ND	3.25	2.50	1.78	SI3400-E1-GM

NEW! Digital Isolators

Silicon Laboratories' family of digital isolators is the industry's highest-performance, easiest-to-use and lowest-cost line of 5000 Vrms digital isolator products.

Channel Type	Unidirectional Channels	Number of Inputs VDD1 Side	Number of Inputs VDD2 Side	Maximum Data Rate (Mbps)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
Unidirectional	1	1	—	1	8-SOIC	336-1751-5-ND	1.11	1.04	.98	SI8410AB-D-IS
Unidirectional	2	1	—	1	16-SOIC	336-1931-5-ND	1.46	1.38	1.29	SI8410AD-A-IS
Unidirectional	1	1	—	150	8-SOIC	336-1752-5-ND	1.62	1.52	1.43	SI8410BB-D-IS
Unidirectional	1	1	—	150	16-SOIC	336-1932-5-ND	2.13	2.00	1.88	SI8410BD-A-IS
Unidirectional	2	2	—	1	8-SOIC	336-1753-5-ND	1.14	1.08	1.01	SI8420AB-D-IS
Unidirectional	2	2	—	1	16-SOIC	336-1933-5-ND	1.50	1.41	1.32	SI8420AD-A-IS
Unidirectional	2	2	—	150	8-SOIC	336-1754-5-ND	1.65	1.56	1.46	SI8420BB-D-IS
Unidirectional	2	2	—	150	16-SOIC	336-1934-5-ND	2.18	2.05	1.92	SI8420BD-A-IS
Unidirectional	2	1	1	1	8-SOIC	336-1755-5-ND	1.14	1.08	1.01	SI8421AB-D-IS
Unidirectional	2	1	1	1	16-SOIC	336-1935-5-ND	1.50	1.41	1.32	SI8421AD-B-IS
Unidirectional	2	1	1	150	8-SOIC	336-1756-5-ND	1.65	1.56	1.46	SI8421BB-D-IS
Unidirectional	2	1	1	150	16-SOIC	336-1936-5-ND	2.18	2.05	1.92	SI8421BD-B-IS
Unidirectional	2	1	1	1	16-SOIC	336-1937-5-ND	1.50	1.41	1.32	SI8422AD-B-IS
Unidirectional	2	1	1	150	16-SOIC	336-1938-5-ND	2.18	2.05	1.92	SI8422BD-B-IS
Unidirectional	2	2	—	1	16-SOIC	336-1939-5-ND	1.50	1.41	1.32	SI8423AD-B-IS
Unidirectional	2	2	—	150	16-SOIC	336-1940-5-ND	2.18	2.05	1.92	SI8423BD-B-IS
Unidirectional	3	3	—	1	16-SOIC	336-1757-5-ND	1.51	1.43	1.34	SI8430AB-D-IS1
Unidirectional	3	2	1	1	16-SOIC	336-1758-5-ND	1.63	1.54	1.44	SI8431AB-D-IS
Unidirectional	4	4	—	1	16-SOIC	336-1759-5-ND	2.04	1.92	1.80	SI8440AB-D-IS
Unidirectional	4	4	—	150	16-SOIC	336-1760-5-ND	2.94	2.77	2.60	SI8440BB-D-IS
Unidirectional	4	3	1	1	16-SOIC	336-1761-5-ND	2.04	1.92	1.80	SI8441AB-D-IS
Unidirectional	4	3	1	150	16-SOIC	336-1762-5-ND	2.94	2.77	2.60	SI8441BB-D-IS
Unidirectional	4	2	2	1	16-SOIC	336-1763-5-ND	2.04	1.92	1.80	SI8442AB-D-IS
Unidirectional	4	2	2	150	16-SOIC	336-1764-5-ND	2.94	2.77	2.60	SI8442BB-D-IS
Evaluation Kit for SI84XXCOM						336-1930-ND	40.00	—	—	SI84XXCOM-RD
Evaluation Kit for SI84XXISO						336-1765-ND	40.00	—	—	SI84XXISO-KIT
Evaluation Board Open-Loop POL						336-1919-ND	111.25	—	—	OPENLPPOL-EVB

NEW! ISO Drivers

Input Type	Output Configuration	Peak Output Current (A)	Isolation Rating Input-Output (kVrms)	Isolation Rating Output-Output (kVdc)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
Opto	Single	2.5	12.5	2.5	8-SOIC	336-1917-5-ND	1.50	1.41	1.32	SI8220DB-A-IS
VIA, VIB	High Side / Low Side	0.5	8	2.5	16-SOIC	336-1915-5-ND	1.70	1.60	1.50	SI8230BB-B-IS1
VIA, VIB	High Side / Low Side	0.5	8	2.5	16-SOIC	336-1916-5-ND	1.56	1.48	1.38	SI8230BB-B-IS
VIA, VIB	High Side / Low Side	0.5	8	5	16-SOIC	336-1914-5-ND	2.06	1.94	1.82	SI8230BD-B-IS
PWM	High Side / Low Side	0.5	8	2.5	16-SOIC	336-1912-5-ND	1.70	1.60	1.50	SI8231BB-B-IS1
PWM	High Side / Low Side	0.5	8	2.5	16-SOIC	336-1913-5-ND	1.56	1.48	1.38	SI8231BB-B-IS
PWM	High Side / Low Side	0.5	8	5	16-SOIC	336-1911-5-ND	2.06	1.94	1.82	SI8231BD-B-IS
VIA, VIB	Dual Driver	0.5	8	2.5	16-SOIC	336-1909-5-ND	1.70	1.60	1.50	SI8232BB-B-IS1
VIA, VIB	Dual Driver	0.5	8	2.5	16-SOIC	336-1910-5-ND	1.56	1.48	1.38	SI8232BB-B-IS
VIA, VIB	Dual Driver	0.5	8	5	16-SOIC	336-1908-5-ND	2.06	1.94	1.82	SI8232BD-B-IS
VIA, VIB	High Side / Low Side	4	8	2.5	14-LGA	336-1907-5-ND	2.28	2.15	2.01	SI8233BB-C-IM
VIA, VIB	High Side / Low Side	4	8	2.5	16-SOIC	336-1905-5-ND	2.28	2.15	2.01	SI8233BB-C-IS1
VIA, VIB	High Side / Low Side	4	8	2.5	16-SOIC	336-1906-5-ND	2.13	2.00	1.88	SI8233BB-C-IS
VIA, VIB	High Side / Low Side	4	8	5	16-SOIC	336-1904-5-ND	2.81	2.64	2.48	SI8233BD-C-IS
PWM	High Side / Low Side	4	8	2.5	14-LGA	336-1903-5-ND	2.28	2.15	2.01	SI8234BB-C-IM
PWM	High Side / Low Side	4	8	2.5	16-SOIC	336-1901-5-ND	2.28	2.15	2.01	SI8234BB-C-IS1
PWM	High Side / Low Side	4	8	2.5	16-SOIC	336-1902-5-ND	2.13	2.00	1.88	SI8234BB-C-IS
PWM	High Side / Low Side	4	8	5	16-SOIC	336-1900-5-ND	2.81	2.64	2.48	SI8234BD-C-IS
VIA, VIB	Dual Driver	4	8	2.5	16-SOIC	336-1898-5-ND	2.28	2.15	2.01	SI8235BB-C-IS1
VIA, VIB	Dual Driver	4	8	2.5	16-SOIC	336-1899-5-ND	2.13	2.00	1.88	SI8235BB-C-IS
VIA, VIB	Dual Driver	4	8	5	16-SOIC	336-1897-5-ND	2.81	2.64	2.48	SI8235BD-C-IS

Timing Products

Precision Clock ICs

Description	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
Quad Clock Generator, 700MHz	24-QFN	336-1553-5-ND	18.87	17.76	SI5338A-A-GM	336-1556-ND	125.00	SI5338-EVB
Quad Clock Generator, 350MHz	24-QFN	336-1554-5-ND	16.35	15.40	SI5338B-A-GM	336-1556-ND	125.00	SI5338-EVB
Quad Clock Generator, 200MHz	24-QFN	336-1555-5-ND	13.84	13.03	SI5338C-A-GM	336-1556-ND	125.00	SI5338-EVB
Quad IC Clock Generator, 200MHz	24-QFN	336-1749-5-ND ***NEW!***	5.29	4.98	SI5356A-A-GM	336-1750-ND ***NEW!***	125.00	SI5356-EVB
Field Programming Kit SI5338/4/0		336-1747-ND ***NEW!***	150.00	—	SI5338/56-PROG-EVB	—	—	—

NEW! OC-12/3, STM-4/1 Sonet/SDH Clock and Data Recovery IC

Description	Type	Data Rates	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
IC Clock/Data Recovery	CDR, STM-4/1	OC-12/3, (2.5V)	20-QFN	336-1743-5-ND	26.75	24.03	16.06	SI5010-B-GM

NEW! Precision Clock Multiplier/Regenerator IC

Description	Input Frequency (MHz)	Output Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
IC Clock Multiplier/Regenerator	9.4 ~ 668	150 ~ 167 or 600 ~ 668	20-QFN	336-1744-5-ND	18.04	16.98	15.92	SI5310-C-GM

NEW! Any-Rate Precision Clock Multiplier/Jitter Attenuators

Description	Input Frequency (MHz)	Output Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
IC Any-Rate Multiplier/Jitter Attenuator	0.002 ~ 710	0.002 ~ 808	36-QFN	336-1745-ND	49.84	41.05	38.12	SI5326B-C-GM
IC Any-Rate Multiplier/Jitter Attenuator	0.002 ~ 710	0.002 ~ 346	36-QFN	336-1746-5-ND	32.28	26.59	24.69	SI5326C-C-GM
Pin Controlled Jitter Cleaning Clock	1 ~ 710	1 ~ 710	36-QFN	336-1923-ND	15.30	12.60	11.70	SI5317A-C-GM
Pin Controlled Jitter Cleaning Clock	1 ~ 710	1 ~ 350	36-QFN	336-1922-ND	12.75	10.50	9.75	SI5317B-C-GM
Pin Controlled Jitter Cleaning Clock	1 ~ 710	1 ~ 200	36-QFN	336-1921-ND	10.63	10.00	9.38	SI5317C-C-GM
Pin Controlled Jitter Cleaning Clock	1 ~ 710	1 ~ 100	36-QFN	336-1920-ND	8.93	8.40	7.88	SI5317D-C-GM
Evaluation Board for SI5317				336-1924-ND	125.00	—	—	SI5317-EVB

Zoom™ Starter Development Kits
Low Cost Development System

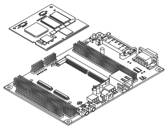

Sharp Zoom Starter Development Kit Includes: • Card Engine (LH79520, LH79524, LH7A400, LH7A404, SH7727, SH7760) • Application board • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash (Refer to Card Engine for support of peripherals) • Power supply and adapters for UK, US, EU, Japan • Serial cable • LogicLoader™ (bootloader/monitor) in executable format • BSPs available depending on Card Engine purchased • GNU cross-development tools (compiler, linker, assembler, debugger) are included for Linux development systems

Marvell Zoom Starter Kit: • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash, USB Host, USB device • Power supply and adapters for UK, US, EU, Japan, serial cable • LogicLoader (bootloader/monitor) in executable format • GNU cross-development tools (compiler, linker, assembler, debugger) are included. Kit contents: Card Engine, Application Board, Ethernet cross-over cable, Serial cable, Power supply/adapter (Europe, Japan, UK, and US), QuickStart Guide, Logic Starter CD, EULA • The PXA270 Card Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications • Use of custom baseboards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products • Provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Card Engines when new functionality or performance is required.

Description	Digi-Key Part No.	Price Each	Logic Part No.
Sharp			
Zoom Starter Kit for LH7A404	460-3480-ND	457.65	SDK-LH7404-12-6432R-A
Zoom Starter Kit for LH79524	460-3474-ND	445.50	SDK-LH79524-10-3216R-A
Marvell			
Zoom Starter Kit for PXA270	460-3472-ND	572.40	SDK-PXA270-520-10-6432R
Card Engine for PXA270	460-3479-ND	289.67	CENGPXA270-520-10-504HCR

Zoom™ Display Kits

The Zoom Display Kits are ready-to-use LCDs that can be immediately connected to the Zoom Application Development Kits. The display kits includes: • Bezel • Backlight • 4 Wire Resistive Touch Panel • Ribbon Cable The 4.3" display kit also includes 4-wire resistive touch panel and an LCD connector built into the PCB

Description	Sharp LCD Part No.	Digi-Key Part No.	Price Each	Logic Part No.
4.3" WQVGA (480 x 272), Widescreen Color TFT	LQ043T1DG01	460-3485-ND ***NEW!***	282.75	LCD-4.3-WQVGA-10R
6.4" VGA (640 x 480), Color TFT	LQ64D343	460-3471-ND	882.70	LCD-6.4-VGA-10R

NEW! DLP® LightCommander™ Development Kits

DLP LightCommander is a highly versatile and easy-to-use development kit for incorporating DLP technology into light processing applications. The modular architecture includes an optical light engine, industry standard interfaces, and application software to expedite system development requiring high-speed spatial light modulation. **Features:** • XGA (1024 x 768) resolution DMD • Core DLP optical module • Solid state illumination module (RGB LED and IR LED) • DLP micromirror control (binary patterns, 8-bit gray scale, and video projection mode **Controller Board External Interfaces:** • Three user sync ports • HDMI input • USB control input **Controller Board Internal Interfaces:** • Parallel RGB 8-bit interface • SPI serial interface • LED control interface **Optical Interfaces and Mounts:** • Interchangeable lens mount (Nikon F-Mount) • Defined illumination interface • Flexible optical mount options **Lens:** • Nikon AF NIKKOR 50mm f/1.8D lens **Power:** • Three internal power supplies **Cables:** • USB A to mini-B cable • DVI to HDMI cable • Power cables **Software:** • PC-based control software

The DLP LightCommander includes both the DMD Board and Controller Board. The Controller Board is available for purchase in production volumes.

460-3493-ND	(DLP-LC-DLP5500-10R)	DLP LightCommander	**$2867.48**
460-3494-ND	(DLP-CB-DLPC200-10R)	Controller Board	**$1903.58**

NEW! Zoom™ OMAP36x Mobile Development Platforms

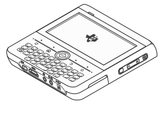

The Zoom OMAP36X Mobile Development Platform (MDP) is a fully-featured evaluation platform built around the Texas Instruments (TI) OMAP3630 applications processor. Enclosed within a full-body case, the Zoom OMAP36x MDP addresses essential needs of the open-source community and high-level operating system (HLOS) developers. A 4.1" WVGA capacitive touch screen and full QWERTY keypad allow for easy interfacing. Wireless 802.00, Bluetooth, and FM networks create numerous opportunities for connectivity. Expansion slots for MMC/SD and SIM cards provide access to additional storage and features. An external debug board puts full development control within reach. At the heart of the Zoom OMAP36x MDP is the Texas Instruments OMAP3630 applications processor that integrates powerful 720p multimedia, 3D graphics, and 8MP imaging capabilities with the high=performance ARM® Cortex™-A8 core.

460-3490-ND	(SOMXOMAP3630-10-1980AFCR-A)	**$383.40**
460-3491-ND	(MDP-XOMAP3630-10-1024512R)	**$1625.63**

NEW! Zoom™ Development Kits

The Zoom OMAP35x Torpedo Development Kit Includes: • Product-ready Torpedo SOM • 4.3" WQVGA LCD with touchscreen • Ready to run Board Support Packages (BSPs)

Features: • Integrated LCD, touch, and backlight connector for optional Zoom Display Kits • 4-wire resistive touchscreen • Stereo input and output jacks • One RJ45 Ethernet jack connector with magnetics (application/debug) • Two MC/SD card slots • One USB 2.0 high-speed On-the-Go device • Three USB 2.0 high-speed host ports • 115.2kbps RS-232 debug serial port • Connectors for JTAG and ETM interfaces • LogicLoader™ (bootloader/monitor) • Windows® Embedded CE 6.0 BSP • Open source Linux BSPs.

The OMAP35x System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards embedded designs. **Features:** • Product-ready System on Module with a TI OMAP 3 processor running up to 600MHz • Compact form factor SOM-LV Type III (31.2 x 76.5 x 7.4mm)

Description	Digi-Key Part No.	Price Each	Logic Part No.
Zoom™ OMAP35x™ Torpedo Development Kit	460-1033-ND	1105.00	SDK-OMAP3530-20-128256R
System on Module LV OMAP3530	460-3484-ND	441.45	SOMOMAP3530-10-1672IFCR

NEW! Zoom™ OMAP-L138 System on Module (SOM)

The OMAP-L128 SOM-M1 is ideal for applications that require high-speed data transfer and high-capacity storage, such as test and measurement, public safety radios, music effects and intelligent occupancy sensors. The OMAP-L138 offers a universal parallel port (uPP) and is the first TI device with an integrated Serial Advanced Technology Attachment (SATA) interface. For medical, industrial, audio, and communications products, the OMAP-L138 SOM-M1 allows for powerful versatility, long-life, and greener products. The OMAP-L138 System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards embedded designs while reducing risk and controlling cost.

460-3488-ND	(SOMXC6748-10-1602AHCR)	**$218.95**
460-3492-ND	(SOMXOMAPL138-10-1602AHCR)	**$229.10**

NEW! Zoom™ AM3517 eXperimenter Kit

This Zoom Development Kit provides a product-ready hardware and software platform for evaluating the functionality of the Texas Instruments™ (TI) AM3517 processor and the Logic System on Module (SOM). Zoom Am3517 eXperimenter Kit contains: • AM3517 SOM-M2 • eXperimenter baseboard • 5V power supply with US, UK, Japan, and Europe power adapters • Serial cable (null-modem) • USB A to mini-B cable

460-3486-ND	(SDK-AM3517-10-256512R)	**$332.05**

COPELAND
COMMUNICATIONS, INC.

Modems and Socket Radio

The **World Modem II™** devices allow rapid implementation of a modem interface into numerous applications **Features:** • Socket Modem™ compatible • 3.3V operation • Compliant with global standards • Caller ID, Call progress, and Fast Connect • Small footprint 1.045" x 2.54" • Standard and extended AT command set.

The **World Modem Secure™** devices support SIA and other security protocols and has programmable GPIO **Features:** • Socket Modem Compatible • Compliant with global standards • Caller ID, Call progress, and Fast Connect. • Small footprint 1.045" x 2.54" • Standard and Extended AT Command set.

The **Socket Radio™** allows rapid implementation of wireless modem capability to any application with data rates up to 33.6Kbaud. **Features:** • Socket Modem compatible • 200' (indoor) range • 900MHz band • FCC 15.249 compliant • AT command set • Small footprint 1.045" x 2.54" • MMCX connector (CB Version) • Integrated antenna (CA Version)

Interface	Description	Voltage (V)	Digi-Key Part No.	Price Each 1	Price Each 50	Copeland Part No.
World Modem II						
V.22bis, V.22, V.23	Serial Modem, 2400baud	3.3	539-1000-ND	30.71	26.62	CC-24K2-CS
V.92, V.90, V.34, V.32bis	Serial Modem, 5V Compatible, 56kbaud	5.0	539-1007-ND	49.19	42.63	CC-92K2-CS5
V.92, V.90, V.34, V.32bis	Serial Modem, 56kbaud	3.3	539-1008-ND	47.21	40.92	CC-92K2-CS
World Modem Secure						
V.21, V.22, V.22bis, V.23	Serial Modem Secure 5V Compatible, 2400baud	5.0	539-1009-ND	35.91	31.13	CC-2401K2A-CS5
V.21, V.22, V.22bis, V.23	Serial Modem Secure 2400baud	3.3	539-1010-ND	33.96	29.44	CC-2401K2A-CS
Socket Radio Modem						
33.6K	Radio Modem 900MHz MMCX Connector	3.3	539-1003-ND	54.49	51.19	CC-900W-CB
33.6K	Radio Modem 900MHz with Antenna	3.3	539-1005-ND	72.92	68.51	CC-900W-CA
Development Kits						
World Modem II Development Kit			539-1002-ND	199.00	—	CC-CC-EVB-56K
Socket Radio Development Kit			539-1004-ND	399.00	—	CC-SR-EVAL

MICROELECTRONICS
OF THE AMERICAS

BlueStreak MCU/SoC

The 16/32 bit BlueStreak MCU/SoCs offer higher performance than ordinary 16-bit MCU utilizing the ARM7TDMI core with 32KB of on-chip SRAM, color and grayscale LCD controller, plus three UARTs, SPI, CAN 2.0B, three 16-bit Counter/Timers, A/D Converter, Watchdog Timer and Low Voltage Detector, they are an excellent solution to speed-versus-cost concerns. Applications include GPS, PDA, Printers/Copiers, Security Control Panels, and White Goods. The 32-bit series of BlueStreak MCU/SoCs begins with the LH795x and LH754xx, which combine a 32-bit ARM7TDMI RISC core with 8KB Cache, MMU, color LCD controller, and 32KB SRAM. Also included are a number of essential peripherals such as a DMA Controller, Serial and Parallel Interfaces, Infrared Support, Counter/Timers, Real Time Clock, Watchdog Timer, Pulse Width Modulators and an on-chip Phase Lock Loop. For more power, the LH7A40x SoCs build on this basic feature set with 80KB of SRAM, ARM9 cores and add highly-desired functionality like USB and MMC. With their high performance and integration, the 32-bit BlueStreak devices are a great choice as a basis for handheld devices like GPS, Games, PDAs, Pocket PCs, and Media Players.

Features: • **Operating Temperature**: Industrial: -40°C ~ 85°C • **VCC**: 1.8V • **SPI**: Yes • **WDT**: Yes • **JTAG**: Yes

Memory Size RAM Bytes	GP I/O Pins	UART	CAN	DMA	USB	Microwire	Timer/ Counters 16-bit	PWM	ADC	LCD Controller	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each	Sharp Part No.
32K	76	3	2.0B	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Gray)	70	144-TQFP	425-1860-ND	12.10	LH75400N0M100C0
	86	3 (w/IrDA)	—	4-Channel	v2.0	Yes	3	3	10-Ch, 10-Bit	Y (Color)	77.4	176-LQFP	425-1866-ND	20.38	LH79525N0M100A0
80K	60	3 (w/IrDA)	—	10-Channel	v2.0	Yes	3	2	—	Y (Color)	200	256-CABGA	425-1867-ND	24.95	LH7A400N0E000B3A
	64	3 (w/IrDA)	—	12-Channel	v2.0	Yes	3	2	10-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-1868-ND	35.15	LH7A404N0E000B0A

nuvoTon

Single and Dual Channel Audio CODEC

Nuvoton's family of voice CODEC solutions addresses the market requirements for voice-grade A/D and D/A conversion at the lowest possible cost. In order to digitize and reconstruct the cleanest voice signals possible, the single channel and dual channel CODECs were designed to the recommendations of the industry G.712 filters specification and the μ-Law and A-Law G.711 companding specifications. **Features:** • A-Law/μ-Law companding according to ITU-T G.711 by pin selection • A/D and D/A filter according to ITU-T G.712 • Lowest power dissipation in the industry in standby and powered modes • Four PCM Digital Interface Clock Formats - Short Frame Sync, Long FrameSync, IDL and GCI • Fully-Differential Analog Circuit Design for lowest noise • On-Chip Precision Reference Voltage • Industrial Temperature Range: -40°C ~ 85°C **Applications:** • PABX/SOHO systems • ISDN equipment • Modems/PC cards • Fiber-to-the-curb equipment • Enterprise phones • VOIP and Internet phones • Telematics • Speaker phones • Digital telephony systems

Description	Package	Digi-Key Part No.	Price Each	Nuvoton Part No.
		IC Voiceband		
Single, 3V	28-SSOP	WAU8812RG-ND◆	3.72	WAU8812RG
Dual, 3V	32-QFN	WAU8822YG-ND◆	4.59	WAU8822YG
Single, 5V	20-DIP	W6810IE-ND	2.91	W6810IE
Single, 3/5V	24-DIP	W6811IE-ND	3.09	W6811IE
	24-SSOP	W6811IR-ND	3.09	W6811IR
Dual, 5V	20-DIP	W682510E-ND	4.46	W682510E
		Evaluation Kits		
WAU8812		WAU8812EVB-ND◆	200.00	WAU8812EVB
WAU8822		WAU8822EVB-ND◆	200.00	WAU8822EVB
W6810 Series		W6810DK-ND	125.00	W6810DK
W682310 Series		W682310DK-ND	106.40	W682310DK
W682510 Series		W682510DK-ND	106.40	W682510DK
W684386 Series		W684386EVM-ND	437.50	W684386EVM

◆ ***RoHS Compliant***

ISD15000 and ISD1700 Series Evaluation Boards

This demo board allows the complete operation of the Nuvoton I15xxx and I17xx ChipCorder® IC controlled through the USB port of a PC. All the functions of the chip may be selected in real time to allow complete evaluation of this chip for an end application. The PC connects to the demo board using a standard USB cable. (Not included in the package) The demo board also works in stand alone mode (Push Button Mode). **Kit Contents:** • One Sample ISD15000 or ISD1700 • CD (with Applications Software and User's guide with demo boards schematics) • Three AA batteries • An Eight Ohm Speaker

Description	Digi-Key Part No.	Price Each
Evaluation Board	ISD-ES15100_USB-ND	187.50
Demo Board	ISD-ES17XX_USB_PB-ND	187.50

ChipCorder® Demo Boards

These Demo boards of ChipCorder devices demonstrate the functionalities and voice quality of the ISD devices. The default settings for sampling frequency and output are 8kHz and PWM speaker outputs, respectively. Sampling frequency can be changed by replacing a resistor on the demo board. **Kit Contents:** • Demo Board • Users Manual

Description	Duration	Digi-Key Part No.	Price Each
	ISD1600 Series		
Demo Board for ISD1620	20 Seconds	I16-COB20-ND	5.32
	ISD1700 Series		
Demo Board for ISD17150	150 Seconds	ISD-COB17150-ND	13.30
Demo Board for ISD17240	240 Seconds	ISD-COB17240-ND	13.30
Demo Board for ISD1730	30 Seconds	ISD-COB1730-ND	10.64
Demo Board for ISD1760	60 Seconds	ISD-COB1760-ND	10.64

Single-Chip Voice Record/Playback Devices

General Description:
Nuvoton's patented ChipCorder® technology is a revolutionary multilevel technique to record and play back sound on a single-chip. The advanced technology provides natural sound reproduction, in a cost-effective device that retains stored messages in the event of power loss or battery replacement. The technology, based on a unique multilevel storage approach, stores multiple voltage levels into previously binary, two level EEPROM memory cells. Unlike traditional voice solutions whereby voice is digitized, the Nuvoton approach stores analog signals directly into single cells as one of over 250 levels. All ChipCorder products integrate the oscillator, microphone pre-amplifier, automatic gain control, anti-aliasing filter, smoothing filter, and speaker amplifier on-chip to achieve a complete "system on a chip." Only a microphone, speaker, power source, and a few passive components are needed to implement a complete record/playback function.

ISD15100 Series: Description: The ISD15100 Series is a multi-message ChipCorder featuring digital compression, comprehensive memory management, flash storage, and integrated analog/digital audio signal paths. The message management feature is designed to make message recording simple and address-free as well as make code development easier for playback only applications. This family utilizes flash memory to provide non-volatile audio record/playback for a single-chip solution. Unlike other ChipCorder series, the ISD15100 series provides digital audio interface, faster digital recording, higher sampling frequency, and a signal path with SNR equivalent to 12bit resolution. The ISD15100 series can take digital audio data via I2S or SPI interface. When I2S input is selected, it will replace the analog audio inputs and will support sample rates of 32, 44.1 or 48 KHz depending upon clock configuration.

ISD1600B Series: Description: The ISD1600B Series ChipCorder is a single-message, single-chip, record/playback solution with selectable durations from 6.6 to 40 seconds. With the ISD1600B device a minimum record/playback subsystem can be configured with a microphone, a speaker or buzzer, several passive components, two push buttons, and a power source. **Features:** 2.4 ~ 5.5 operating voltage. Sample frequency 4KHz ~ 12KHz controlled by external resistor.

ISD1700 Series: Description: The ISD1700 series allows durations of up to 480 seconds (dependant on sample rate). Because of an integrated trigger and SPI interfaces this series can operate in stand-alone or embedded mode. **Features:** 2.4 ~ 5.5 operating voltage. Sample frequency 4KHz ~ 12KHz controlled by external resistor

ISD1900 Series: Description: The ISD1900 ChipCorder is the newest single-chip multiple-message record/playback series with dual operating modes (address trigger and direct trigger) and wider operating voltage ranging from 2.4V ~ 5.5V. The sampling frequency can be selected from 4 ~ 12KHz via an external resistor, which also determines the duration from 10.6 ~ 32 seconds. These ICs are designed mostly for standalone applications, and of course, it can be used in conjunction with a microcontroller, if necessary. The two operating modes are address trigger and direct trigger.

ISD400X Series: Description: The ISD4000 series provides high-quality, 3 volt, single-chip record/playback solutions for 2 to 4 minutes (ISD4002), 4 to 8 minutes (ISD4003), and 8 to 16 minutes (ISD4004) messaging applications. These CMOS-based devices include an on-chip oscillator, anti-aliasing filter, smoothing filter, AutoMute™ feature, audio amplifier, and high density, multilevel Flash storage array. **Features:** • Single +3 volt supply • Low-power consumption • AutoMute feature to provide background noise attenuation • Fully addressable to handle multiple messages • On-chip clock source • Microcontroller SPI or Microwire™ Serial Interface

ISD5008 Series: Description: The ISD5008 device is designed for use in a microprocessor- or microcontroller-based system. Address, control, and duration selection are accomplished through a Serial Peripheral Interface (SPI) or Microwire Serial Interface to minimize pin count. Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message storage. Voice and audio signals are stored directly into solid-state memory in their natural, uncompressed form, providing superior quality voice and music reproduction. **Features:** • Fully-integrated solution • Low-power consumption • Single +3 volt supply • Enhanced voice features • Easy-to-use and control • High quality solution

ISD5116 Series: Description: The ISD5116 ChipCorder Product provides high quality, fully integrated, single-chip Record/Playback solutions for 8-16 minute messaging applications that are ideal for use in cellular phones, automotive communications, GPS/navigation systems and other portable products. **Features: Fully-integrated solution:** • Single-chip voice record/playback solution • Low-power consumption supports 2.0V and 3.0V interface logic • Enhanced voice features • Digital memory features up to 4 MB • Easy-to-use and control • High quality voice and music reproduction

Duration	Interface	Input Sample Rate (KHZ)	Pkg.	Digi-Key Part No.	Price Each			Nuvoton Part No.
					1	10	25	
2 Min.	Pushbutton/ SPI	12.0	48-LQFP	ISD15102FYI-ND◆	10.18	7.45	6.97	ISD15102FYI
4 Min.	Pushbutton/ SPI	12.0	48-LQFP	ISD15104FYI-ND◆	11.36	8.70	8.22	ISD15104FYI
8 Min.	Pushbutton/ SPI	12.0	48-LQFP	ISD15108FYI-ND◆	14.59	11.17	10.55	ISD15108FYI
16 Min.	Pushbutton/ SPI	12.0	48-LQFP	ISD15116FYI-ND◆	17.85	13.66	12.91	ISD15116FYI
10 Sec.	Pushbutton	8.0	16-SOIC	ISD1610BSY-ND◆	5.40	3.70	3.33	ISD1610BSY
12 Sec.	Pushbutton	8.0	16-SOIC	ISD1612BSY-ND◆	5.85	4.01	3.61	ISD1612BSY
16 Sec.	Pushbutton	8.0	16-SOIC	ISD1616BSY-ND◆	6.54	4.48	4.03	ISD1616BSY
20 Sec.	Pushbutton	8.0	16-SOIC	ISD1620BSY-ND◆	7.17	4.91	4.42	ISD1620BSY
40 Sec.	Pushbutton/ SPI	8.0	28-DIP	ISD1740PY-ND◆	7.27	5.32	4.98	ISD1740PY
		8.0	28-SOIC	ISD1740SY-ND◆	7.27	5.32	4.98	ISD1740SY
50 Sec.	Pushbutton/ SPI	8.0	28-DIP	ISD1750PY-ND◆	7.60	5.56	5.21	ISD1750PY
1 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD1760PY-ND◆	7.98	5.84	5.47	ISD1760PY
		8.0	28-SOIC	ISD1760SY-ND◆	7.98	5.84	5.47	ISD1760SY
90 Sec.	SPI	8.0	28-DIP	ISD1790PY-ND◆	9.44	6.91	6.47	ISD1790PY
		8.0	28-SOIC	ISD1790SY-ND◆	9.44	6.91	6.47	ISD1790SY
2 Min.	Pushbutton/ SPI	8.0	28-SOIC	ISD17120PY-ND◆	10.18	7.45	6.97	ISD17120PY
		8.0	28-DIP	ISD17120SY-ND◆	10.18	7.45	6.97	ISD17120SY
150 Sec.	Pushbutton/ SPI	8.0	28-DIP	ISD17150PY-ND◆	10.88	7.97	7.46	ISD17150PY
3 Min.	Pushbutton/ SPI	8.0	28-TSOP	ISD17180EY-ND◆	11.97	8.76	8.20	ISD17180EY
		8.0	28-SOIC	ISD17180PY-ND◆	11.97	8.76	8.20	ISD17180PY
		8.0	28-DIP	ISD17180SY-ND◆	11.97	8.76	8.20	ISD17180SY
4 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD17240PY-ND◆	12.00	9.19	8.68	ISD17240PY
		8.0	28-SOIC	ISD17240SY-ND◆	12.00	9.19	8.68	ISD17240SY

Duration	Interface	Input Sample Rate (KHZ)	Pkg.	Digi-Key Part No.	Price Each			Nuvoton Part No.
					1	10	25	
64 Sec.	Pushbutton/ SPI	12.0	28-SOIC	ISD1932SYI-ND◆	6.34	4.64	4.34	ISD1932SYI
128 Sec.	Pushbutton/ SPI	12.0	28-SOIC	ISD1964SYI-ND◆	7.60	5.56	5.21	ISD1964SYI
		12.0	28-SOIC	ISD1964SYI01-ND◆	7.60	5.56	5.21	ISD1964SYI01
2 Min.	SPI/ Microwire	8.0	28-DIP	ISD4002-120PY-ND◆	11.24	8.22	7.70	ISD4002-120PY
		8.0	28-SOIC	ISD4002-120SY-ND◆	11.24	8.22	7.70	ISD4002-120SY
		8.0	28-TSOP	ISD4002-120E-ND	9.55	6.99	6.54	ISD4002-120E
150 Sec.	SPI/ Microwire	6.4	28-TSOP	ISD4002-150E-ND	9.55	6.99	6.54	ISD4002-150E
3 Min.	SPI/ Microwire	5.3	28-DIP	ISD4002-180PY-ND◆	11.24	8.22	7.70	ISD4002-180PY
		5.3	28-SOIC	ISD4002-180S-ND	9.55	6.99	6.54	ISD4002-180S
4 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD4002-240PY-ND◆	11.24	8.22	7.70	ISD4002-240PY
4 Min.	SPI/ Microwire	8.0	28-DIP	ISD4003-04MPY-ND◆	12.33	9.44	8.92	ISD4003-04MPY
		8.0	28-SOIC	ISD4003-04MSY-ND◆	12.33	9.44	8.92	ISD4003-04MSY
		8.0	28-TSOP	ISD4003-04ME-ND	10.48	8.03	7.58	ISD4003-04ME
6 Min.	SPI/ Microwire	5.3	28-SOIC	ISD4003-06MS-ND	10.48	8.03	7.58	ISD4003-06MS
8 Min.	SPI/ Microwire	4.0	28-TSOP	ISD4003-08ME-ND	10.48	8.03	7.58	ISD4003-08ME
8 Min.	SPI/ Microwire	8.0	28-DIP	ISD4004-08MPY-ND◆	17.69	13.54	12.79	ISD4004-08MPY
		8.0	28-SOIC	ISD4004-08MSY-ND◆	17.69	13.54	12.79	ISD4004-08MSY
		8.0	28-TSOP	ISD4004-08MEY-ND◆	17.69	13.54	12.79	ISD4004-08MEY
10 Min.	SPI/ Microwire	6.4	28-TSOP	ISD4004-10ME-ND	17.62	13.54	12.79	ISD4004-10ME
		6.4	28-TSOP	ISD4004-10MEY-ND◆	17.69	13.54	12.79	ISD4004-10MEY
16 Min.	SPI/ Microwire	4.0	28-DIP	ISD4004-16MPY-ND◆	17.69	13.54	12.79	ISD4004-16MPY
4~8 Min.	SPI/ Microwire	4.0-8.0	28-TSOP	ISD5008E-ND	12.98	9.94	9.39	ISD5008E
4~8 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD5008PY-ND◆	15.90	12.18	11.50	ISD5008PY
8~16 Min.	I2C	4.0-8.0	28-DIP	ISD5116PY-ND◆	18.16	13.91	13.13	ISD5116PY
		4.0-8.0	28-SOIC	ISD5116SY-ND◆	18.16	13.91	13.13	ISD5116SY

◆ ***RoHS Compliant***

BASIC Stamp® Microcontrollers

Features:
A BASIC Stamp is a single-board computer that runs the Parallax PBASIC language interpreter in its microcontroller. The developer's code is stored in an EEPROM, which can also be used for data storage.
The PBASIC language has easy-to-use commands for basic I/O, like turning devices on or off, interfacing with sensors, etc. More advanced commands let the BASIC Stamp module interface with other integrated circuits, communicate with each other, and operate in networks.
The BASIC Stamp microcontroller has prospered in hobby, lower-volume engineering projects and education due to ease of use and a wide support base of free application resources.

Released Products	**Rev.D / BS1-IC**	**BS2-IC**	**BS2e-IC**	**BS2sx-IC**	**BS2p24-IC**	**BS2p40-IC**	**BS2pe-IC**	**BS2px-IC**	**Javelin Stamp™ Module**
Package	PCB with Proto/ 14-pin SIP	24-pin DIP	24-pin DIP	24-pin DIP	24-pin DIP	40-pin DIP	24-pin DIP	24-pin DIP	24-pin DIP
Package Size (L x W x H)	2.5" x 1.5" x 0.5"/ 1.4" x 0.6" x 0.1"	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	2.1" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	1.24" x 0.6" x 0.45"
Environment◊	0°C ~ 70°C (32°F ~ 158°F)‡	0°C ~ 70°C (32°F ~ 158°F)‡	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)
Microcontroller	Microchip PIC16C56a	Microchip PIC16C57c	Ubicom SX28AC	Ubicom SX28AC	Ubicom SX48AC	Ubicom SX48AC	Ubicom SX48AC	Ubicom SX48AC	Ubicom SX48AC
Processor Speed	4 MHz	20 MHz	20 MHz	50 MHz	20MHz Turbo	20 MHz Turbo	8 MHz Turbo	32 MHz Turbo	25 MHz Turbo
Program Execution Speed	~ 2,000 Instructions/sec.	~ 4,000 Instructions/ sec.	~ 4,000 Instructions/ sec.	~ 10,000 Instructions/ sec.	~ 12,000 Instructions/ sec.	~ 12,000 Instructions/ sec.	~ 6,000 Instructions/ sec.	~ 19,000 Instructions/ sec.	~ 8,500 Instructions/ sec.
RAM Size	16 Bytes (2 I/O, 14 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	32,768 Bytes
Scratch Pad RAM	N/A	N/A	64 Bytes	64 Bytes	128 Bytes	128 Bytes	128 Bytes	128 Bytes	N/A
EEPROM (Program) Size	256 Bytes, ~ 80 Instructions	2K Bytes, ~ 500 Instructions	8 x 2K Bytes, ~ 4,000 Instructions	8 x 2K Bytes, ~ 4,000 Instructions	8 x 2K Bytes, ~ 4,000 Instructions	8 x 2K Bytes, ~ 4,000 Instructions	16 x 2K Bytes (16K for source)	8 x 2K Bytes, ~ 4000 Instructions	32,768 Bytes
Number of I/O pins	8	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	32 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16
Voltage Requirements	5 ~ 15VDC	5 ~ 15VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 24VDC
Current Draw @ 5V	1mA Run / 25µA Sleep	3mA Run / 50µA Sleep	20mA Run / 200µA Sleep	60mA Run / 500µA Sleep	40mA Run / 350µA Sleep	40mA Run / 350µA Sleep	15mA Run / 36µA Sleep	55mA Run / 450µA Sleep	80mA Run / No Sleep
Source / Sink Current per I/O	20mA / 25mA	20mA / 25mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA
Source / Sink Current per unit	40mA / 50mA	40mA / 50mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins
PBASIC Commands▲	32	42	45	45	61	61	61	63	0 (Java)
PC Programming Interface	Serial (with BS1 Serial Adapter)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (19200 baud)	Serial Port (28800 baud)
Windows Text Editor	Stampw.exe (v2.1 and up)	Stampw.exe (v1.04 and up)	Stampw.exe (v1.096 and up)	Stampw.exe (v1.091 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.33 and up)	Stampw.exe (v2.2 and up)	Javelin Stamp IDE

◊ 70% Non-condensing Humidity ‡ Industrial Models Available, -40°C ~ 85°C (-40°F ~ 185°F). ▲ Using PBASIC 2.5 for BS2-type models.

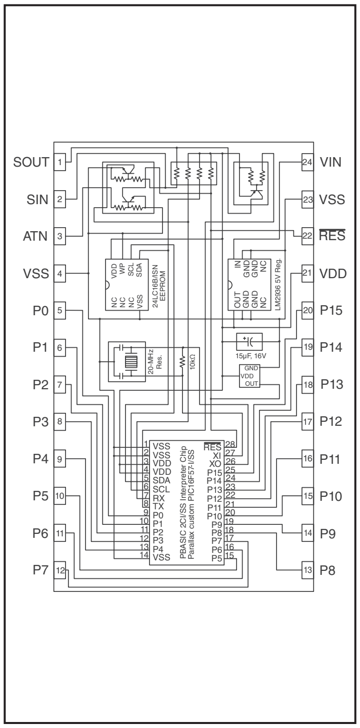

Description	**Digi-Key Part No.**	**Price Each 1**	**5**	**10**	**25**
BASIC Stamp Modules					
BS1-IC BASIC Stamp Module	STAMP1-ND	29.00	27.55	26.10	24.65
BS2-IC BASIC Stamp Module	STAMP2-ND◆	49.00	46.55	44.10	41.65
BASIC Stamp 2e Module	BS2E-IC-ND	54.00	51.30	48.60	45.90
BASIC Stamp 2sx Module	BS2SX-IC-ND	59.00	56.05	53.10	50.15
BASIC Stamp 2p24 pin Module	BS2P24-IC-ND	79.00	75.05	71.10	67.15
BASIC Stamp 2p40 pin Module	BS2P40-IC-ND	89.00	84.55	80.10	75.66
BASIC Stamp 2pe Module	BS2PE-IC-ND◆ ***NEW!***	75.00	71.25	67.50	63.75
BASIC Stamp 2px Module	BS2PX24-ND◆ ***NEW!***	79.00	75.05	71.10	67.15
BASIC Stamp Javelin Module	JS1-IC-ND	89.99	85.49	81.00	76.50
BASIC Stamp Starter Kits					
BASIC Stamp 1 Starter Kit	27205-ND	59.99	56.99	54.00	51.00
BASIC Stamp 2OEM Module Kit	27291-ND	30.99	29.44	27.90	—
BASIC Stamp Discovery Kit	27207-ND◆ ***NEW!***	159.99	151.99	144.00	136.00
Professional Development Board	28138-ND◆ ***NEW!***	159.99	151.99	144.00	136.00
Prototype and Development Boards					
BASIC Stamp Super Carrier Board	27130-ND	19.99	18.99	18.00	17.00
Board of Education	28150-ND	69.99	66.49	63.00	59.50
BS1-IC Carrier Board	STAMP1C-ND	4.99	4.74	4.63	4.37
BS2-IC Carrier Board	STAMP2C-ND	15.99	15.19	14.40	13.60
BASIC Stamp Accessory Modules					
BASIC Stamp 1 Serial Adapter	27111-ND	4.99	—	—	—
Motor Mind B	27961-ND	29.99	—	—	—
PWMPAL 4 Output Channels	28020-ND	29.99	—	—	—
DS2760 Thermocouple Kit	28022-ND	34.99	—	—	—
Application Kits					
Parallax Standard Servo Motor	900-00005-ND	12.99	—	—	—
Little Step U-Stepper Motor Controller	27938-ND	69.99	66.49	63.00	61.24
Books					
BASIC Stamp Manual Version 2.0	27218-ND	25.99	24.69	23.40	22.10
Parallax CD-ROM	27000-ND	1.99	1.89	1.80	1.70

Description	**Digi-Key Part No.**	**Price Each 1**	**5**	**10**	**25**
Stamps in Class Educational Kits†					
Understanding Signals Kit	28119-ND	159.99	151.99	144.00	139.99
"What's a Microcontroller?" Parts Kit and Text	28152-ND	69.99	66.49	63.00	59.50
"Robotics!" Parts Kit and Text	28154-ND	89.99	85.49	81.00	76.50
Boe-Bot Full Kit	28132-ND	159.99	151.99	144.00	136.00
Boe-Bot Robot Kit, USB Version	28832-ND ***NEW!***	159.99	151.99	144.00	136.00
"Basic Analog and Digital" Parts Kit and Text	28155-ND	49.99	47.49	45.00	42.50
Parallax USB Oscilloscope	28014-ND◆ ***NEW!***	139.99	132.99	126.00	119.00
Board of Education (USB), Full Kit; *(No power supply is included)*	28803-ND◆ ***NEW!***	99.99	94.99	90.00	85.00
NEW! Sensors and Accessories NEW!					
Serial LCD, 2 Rows X 16 Characters Backlit	27977-ND◆	29.99	28.49	27.00	26.24
Serial LCD, 4 Rows X 20 Characters Backlit	27979-ND◆	39.99	37.91	36.00	34.99
PING)))™ Ultrasonic Distance Sensor	28015-ND◆	29.99	28.49	27.00	25.50
Sensirion Temperature/Humidity Sensor	28018-ND◆	35.99	34.19	33.74	—
RFID Reader Module	28140-ND◆	39.99	—	—	—
RFID 54mm X 85mm Rectangle Tag	28141-ND◆	.99	.94	.90	.85
Hitachi® HM55B Compass Module	29123-ND	29.99	28.49	27.00	25.50
FlexiForce Sensor Kit, 25lbs.	30056-ND◆	25.99	—	—	—
PIR (Passive Infra-Red) Sensor	555-28027-ND◆	9.99	9.49	9.00	8.50
PING)))™ Bracket Kit	570-28015-ND	19.99	—	—	—
2X16 Parallel LCD	603-00006-ND	29.99	28.49	27.00	26.24
Piezo Film Vibra Tab Mass	605-00004-ND	2.01	—	—	—
Solderless Breadboard	700-00012-ND	3.99	3.79	3.60	3.49
9VDC 300mA Power Supply	750-00008-ND	5.99	5.69	5.62	—
7.5V 1A Power Supply	750-00009-ND◆	10.99	10.44	10.30	—
USB A to Mini B Retractable Cable	805-00010-ND◆	4.99	4.74	4.50	4.25
14 inch LCD Extension Cable	805-00012-ND◆	2.79	2.65	2.51	2.44
Continuous Rotation Servo	900-00008-ND	12.99	12.34	11.70	11.37
NEW! Programmable Logic Controller — RoHS Compliant NEW!					
BASIC Stamp PLC Package	30064-ND	199.99	—	—	—

◆ ***RoHS Compliant*** † Requires the Board of Education Full Kit or BASIC Stamp II Starter Kit

PARALLAX Propeller™ and SX Chips

Propeller Chip: The Propeller Chip makes it easy to rapidly develop embedded applications. Its eight processors (cogs) can operate simultaneously, either independently or cooperatively, sharing common resources through a central hub. The developer has full control over how and when each cog is employed; there is no compiler-driven or operating system-driven splitting of tasks among multiple cogs. A shared system clock keeps each cog on the same time reference, allowing for true deterministic timing and synchronization. Two programming languages are available: the easy-to-learn high-level Spin, and Propeller Assembly which can execute at up to 160 MIPS (20 MIPS per cog).

SX Chip: The Parallax SX Chip is a RISC architecture, high-speed microcontroller with expanded flash program memory, in-system programming and debugging capability.

Operating at frequencies up to 75 MHz with an optimized single-cycle instruction set, developers can implement real-time functions as software modules.

Common examples include communication interfaces (I2C, SPI, UARTs), frequency generation and measurement, PWM, and sigma-delta A/D.

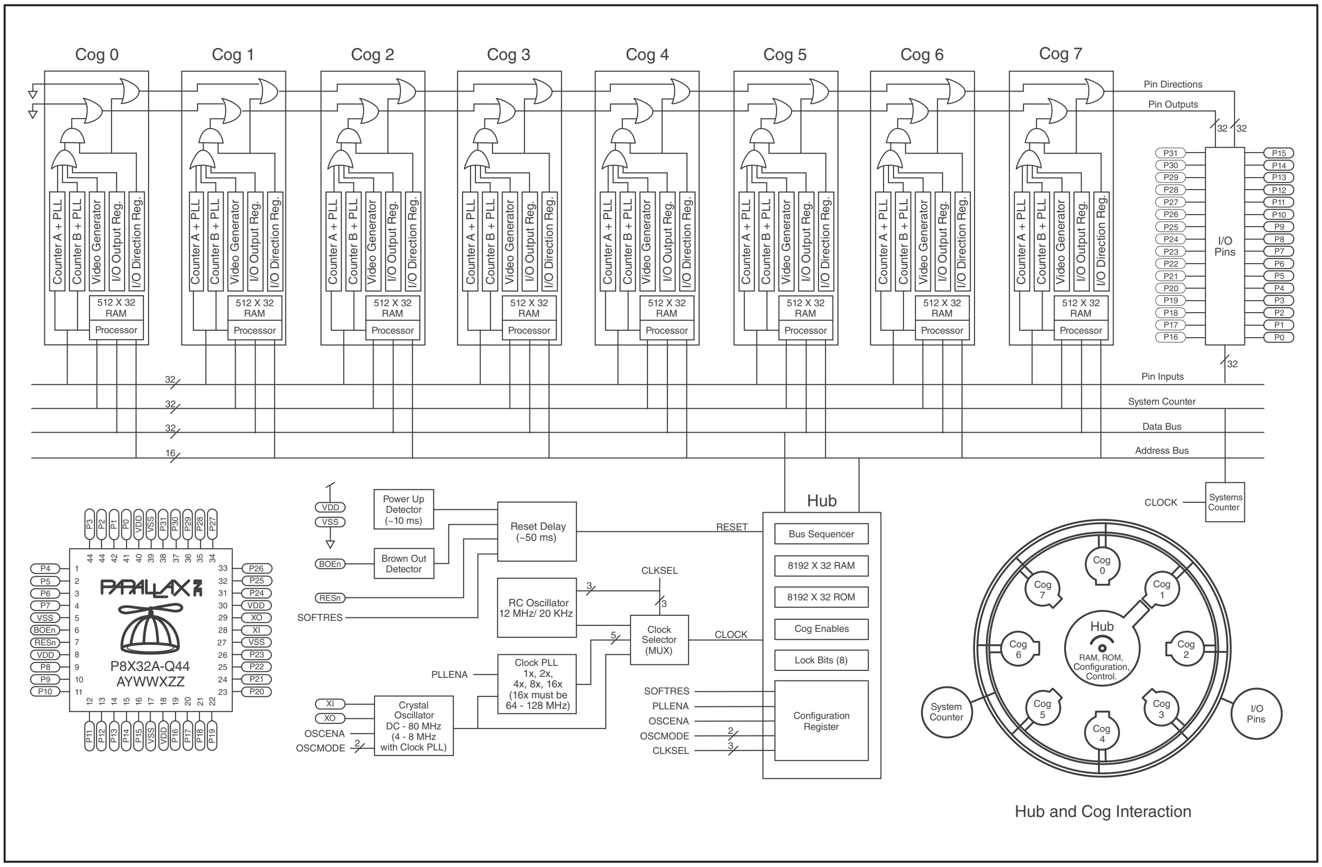

Description	Digi-Key Part No.	Price Each 1	5	10	25
Propeller Processors — RoHS Compliant					
IC, 8 32-bit COGs, 40-DIP	P8X32A-D40-ND	7.99	7.59	7.49	—
IC, 8 32-bit COGs, 44-LQFP (10mm x 10mm)	P8X32A-Q44-ND	7.99	7.59	7.49	—
IC, 8 32-bit COGs, 44-QFN (10mm x 10mm)	P8X32A-M44-ND	7.99	7.59	7.49	—
Propeller Kits					
Demo Board Kit	32100PAR-ND	79.99	75.99	—	69.99
Propeller Starter Kit	32300-ND	99.99	94.99	—	87.49
Propeller Accessories Kit	32311-ND	124.99	—	—	—
Propeller Education Kit	32305-ND	99.99	—	—	—
NEW! Propeller Development Board NEW!					
Propeller Proto Board	32212PAR-ND◆	24.99	23.74	22.50	21.87
HYDRA Game Development Kit	32360-ND	199.99	189.99	187.49	—
NEW! Propeller Accessories NEW!					
Prop Plug, USB to Serial Adapter for Propeller Circuits	32201-ND◆	15.93	—	—	—
Parallax PS/2 Optical Mouse	32350-ND	6.74	—	—	—
Mini LCD A/V Color Display	603-32000-ND	112.49	—	—	—
NEW! SX Chip — RoHS Compliant NEW!					
Configurable Communication Controller, 20 I/O, 2K EE/Flash, 50MHz, 28-SSOP	SX28AC/SS-G-ND	3.95	3.76	3.70	—
NEW! SX Starter Kit — RoHS Compliant NEW!					
SX Tech Tool Kit	45180-ND	89.99	85.49	81.00	78.74

◆ ***RoHS Compliant***

USB Interface Products

USB Mini-B to UART Module (UB232R) is a USB Bus Powered Micro module with the FT232RQ device and a USB mini-B connector. Small size is ideal for new developments or additional USB interfaces to existing product designs. The UB232R supports RTS/CTS hardware handshaking and data rates up to 3MBaud at TTL level. CBUS pins of the FT232R are brought out to provide clock signals to external logic or signal traffic indicator LEDs. Two 1x4 turned pin board headers with a standard 0.1" pitch are supplied with the UB232R to allow for rapid prototyping and development.

USB to UART Miniature Module (MM232R) is a mini development module for the FT232RQ IC device supporting TTL levels. MM232R provides USB serial UART interface in an extremely small form factor with a USB type-B connector. Ideal for new development or adding a USB interface to existing product designs. Two 1x4, and one 2x4 board headers with a standard 0.1" pitch are supplied with the MM232R to allow for rapid prototyping and development.

USB to UART DIP Module (UM232R) is a 24-DIP socket PCB module with the FT232R IC providing access to on-chip UART I/O and control pins. The module can be configured for USB bus powered or self-powered operation, with support for 3V3 or 5V I/Os. Full hardware handshaking is supported, with data rates up to 3MBaud at TTL/CMOS levels.

USB to FIFO DIP Module (UM245R) is a 24-DIP socket PCB module with the FT245R IC providing access to on-chip FIFO I/O and control pins. The module can be configured for USB bus powered or self-powered operation, with support for 3V3 or 5V I/Os. Transfer data rate up to 1MByte/second.

Dual/Quad USB 2.0 Hi-Speed USB to UART/FIFO/MPSSE Modules (FT2232H/FT4232H_MINI MOD) are USB 2.0 Hi-Speed Modules (480 Mb/s) utilizing the 2-port (FT2232H) and 4-port (FT4232H) IC's which handle USB to UART/FIFO/MPSSE (JTAG/I2C/SPI) protocol conversion. Can be configured for industry standard serial or parallel interfaces as listed.

Full Speed USB to RS232 Module to replace RS232 DB9 male or female connector (DB9-USB-M/DB9-USB-F) integrates embedded RS232 level shifters, FT232R and USB mini-B connector into a DB9 form factor for quick upgrading of legacy RS232 interfaces to Full-Speed USB port. The modules support modem handshake signals, and data rates up to 1MBaud.

USB to Serial UART Interface Development and Evaluation Module (EVAL232R) based on the FT232RL IC: Additional header pins on the board provide access to the FT232RL device's configurable CBUS interface pins. The EVAL232R supports both 3V3 and 5V level I/O interface voltage on the CBUS via a jumper setting. Full RTS/CTS, and FTR/DSR hardware handshaking are supported, DCD and RI are also available. RS232 data rates up to 250kBaud. LEDs for FT232RL transmit and receive lines indicate activity.

USB to RS232 Interface Module (USB-COM232-PLUS-x, Hi-Speed or Full Speed) which handle USB to RS232 protocol conversion RS232-level signals, including modem handshake signals, are available on an industry-standard DE-9P connector. The maximum RS232-level data rate is 1MBaud. Plus1 is USB Full Speed, Plus2 & 4 are USB Hi Speed.

USB to RS422 Interface Module (USB-COM422-PLUS-x, Hi-Speed or Full Speed) RS422-level signals, including modem handshake signals, are available on an industry-standard DE-9P connector. Plus1 is USB Full Speed (RS422=3MBaud) , Plus2 & 4 are USB Hi Speed (RS422=10MBaud).

USB to RS485 Interface Module (USB-COM485-PLUS-x, Hi-Speed or Full Speed) RS485-level signals, including modem handshake signals, are available on an industry-standard DE-9P connector. Plus1 is USB Full Speed (RS485=3MBaud) , Plus2 & 4 are USB Hi Speed (RS485=10MBaud).

TTL to USB Converter Cables (TTL-232R-xxxx) provide a simple way to connect serial TTL interface devices to USB. The electronics are embedded within the USB-type A connector moulding. Cables are terminated at the end of a 1.8 meter cable with a 0.1" pitch SIL connector or tinned wire leads. RXD, TXD, RTS and CTS signals are provided.

Premium USB to RS232 Adapter Cable (US232R-10) is a FT232RL based 10cm USB to RS232 converter cable with embedded level shifters and LED's for activity indication. The US232R-10 cable includes instructions, utilities and complete Microsoft WHQL certified VCP drivers for Windows, Mac and Linux (available online). CE and FCC approved. Data rates from 300 to 1MBaud.

Standard USB to RS232 Converter Cable (UC232R-10 ChiPi) is the economy version of USB to RS232 converter cable. It also serves as an evaluation cable for the FT232R. Using a standard DB9 connector and powered from the USB port, the UC232R-10 "ChiPi" converter can be used with VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices from 300 Baud up to 230kBaud.

USB to RS422 Converter Cable (USB-RS422-WE-xxxx-BT) is a USB to RS422 level serial UART converter cable incorporating FTDI's FT232RQ USB to Serial UART interface IC device which handles all the USB signalling and protocols. The 1.8m cable provides a fast, simple way to connect devices with a RS422 interface to USB.

USB to RS485 Converter Cable (USB-RS485-WE-xxxx-BT) is a USB to RS485 level serial UART converter cable incorporating FTDI's FT232RQ USB to Serial UART interface IC device which handles all the USB signalling and protocols. The 1.8m cable provides a fast, simple way to connect devices with a RS485 interface to USB.

Fig. 1 — EVAL232R Serial to USB Evaluation Module

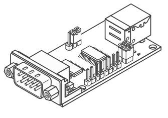

Fig. 2 — UB232R USB Serial Module

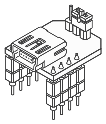

Fig. 3 — UM232R USB Serial Module

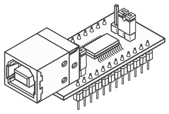

Fig. 4 — UM245R Module

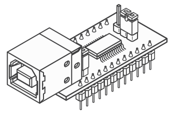

Fig. 5 — MM232R Module

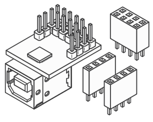

Fig. 6 — DB9-USB-M Module Includes Embedded FT232R with Level Shifters *NEW!*

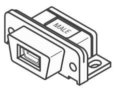

Fig. 7 — DB9-USB-F Module Includes Embedded FT232R with Level Shifters *NEW!*

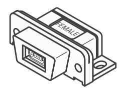

Fig. 8 — US232R-10 Premium USB to Serial Cable with Embedded FT232R with Level Shifters

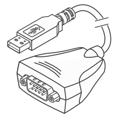

Fig. 9 — UC232R-10 "ChiPi" Economy USB to Serial Cable with Embedded FT232R with Level Shifters

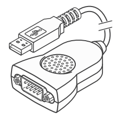

Fig. 10 — TTL-232R-xx USB to Serial TTL Cable with Embedded FT232R

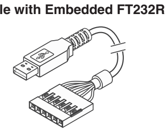

Fig. 11 — TTL-232R-xx-PCB TTL Level Serial Converter PCB USB RSxxx PCB

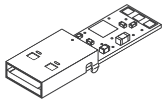

Fig. 12 — USB-RSxxx-WE-xxxx-BT USB to RS232/422/485 Cable with Embedded FT232R with Level Shifters

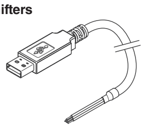

Fig. 13 — FT2232HQ/FT4232HQ Hi-Speed Mini Module

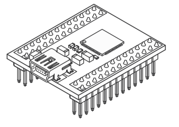

Fig. 14 — USB-COMxxx-PLUS-1 USB to RS232/422/485 Module *NEW!*

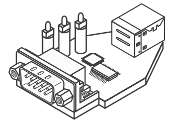

Fig. 15 — USB-COMxxx-PLUS-2 USB to RS232/422/485 Module *NEW!*

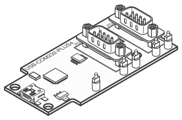

Fig. 16 — USB-COMxxx-PLUS-4 USB to RS232/422/485 Module *NEW!*

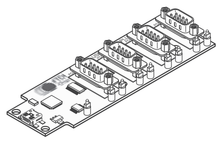

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	FTDI Part No.
1	Evaluation Module for FT232RL	768-1023-ND	21.00	19.00	17.50	EVAL 232R
2	UB232R USB Serial Module	768-1022-ND	17.50	15.50	14.23	UB232R
3	UM232R USB Serial Module	768-1019-ND	20.00	18.00	16.50	UM232R
4	UM245R USB Serial Module	768-1020-ND	20.00	18.00	16.50	UM245R
5	MM232R Module	768-1021-ND	18.00	16.00	14.50	MM232R
6	DB9-USB-RS232 Male Module	768-1064-ND ***NEW!***	22.04	19.17	17.43	DB9-USB-M
7	DB9-USB-RS232 Female Module	768-1063-ND ***NEW!***	22.04	19.17	17.43	DB9-USB-F
8	Premium version USB to RS232 converter cable. DB9 male for connection to target. RS232 voltage levels at pins. 10cm cable length	768-1013-ND	22.00	19.50	18.75	US232R-10-BLK
9	Economy version USB to RS232 converter cable. DB9 male for connection to target. RS232 voltage levels at pins. 10cm cable length	768-1014-ND	18.50	17.00	15.50	UC232R-10 "CHIPI"
10	6-Pin, female header, 0.1" spaced 0V ~ 3V3 TTL signals,5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1015-ND	20.00	18.00	16.50	TTL-232R-3V3
10	6-Pin, female header, 0.1" spaced 0V ~ 5V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1028-ND	20.00	18.00	16.50	TTL-232R-5V
11	Solder terminals, 6 position 0V ~ 5V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS-PCB	768-1017-ND	15.00	13.50	12.38	TTL-232R-PCB
11	Solder terminals, 6 position 0V ~ 3V3 TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS-PCB	768-1018-ND	15.00	13.50	12.38	TTL-232R-3V3-PCB
11	USB to RS422 UART Serial Converter PCB	768-1044-ND ***NEW!***	30.00	28.00	27.50	USB-RS422-PCBA
11	USB to RS485 UART Serial Converter PCB	768-1043-ND ***NEW!***	25.00	23.50	23.00	USB-RS485-PCBA
12	6 Conductor, stripped and tinned 0V ~ 3V3 TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1016-ND	20.00	18.00	16.50	TTL-232R-3V3-WE
12	6 Conductor, stripped and tinned 0V ~ 5V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1029-ND	20.00	18.00	16.50	TTL-232R-5V-WE
12	USB to RS422 Serial Converter Cable	768-1042-ND ***NEW!***	35.00	32.75	32.00	USB-RS422-WE-1800-BT
12	USB to RS485 Serial Converter Cable	768-1041-ND ***NEW!***	30.00	28.00	27.40	USB-RS485-WE-1800-BT
13	USB Hi-Speed to Serial/FIFO Development Module – Dual Channel	768-1030-ND	27.00	24.30	22.37	FT2232HQ_MINI MOD
13	USB Hi-Speed to Serial/FIFO Development Module – Quad Channel	768-1031-ND	29.90	26.91	24.77	FT4232HQ_MINI MOD
14	Module USB to RS232 Converter Single Port	768-1032-ND ***NEW!***	19.00	17.10	15.20	USB-COM232-PLUS-1
14	Module USB to RS422 Converter Single Port	768-1035-ND ***NEW!***	29.00	26.10	23.20	USB-COM422-PLUS-1
14	Module USB to RS485 Converter Single Port	768-1038-ND ***NEW!***	26.00	23.40	20.80	USB-COM485-PLUS-1
15	Module USB to RS232 Converter Dual Port High Speed	768-1033-ND ***NEW!***	34.00	30.60	27.20	USB-COM232-PLUS-2
15	Module USB to RS422 Converter Dual Port High Speed	768-1036-ND ***NEW!***	60.00	54.00	48.00	USB-COM422-PLUS-2
15	Module USB to RS485 Converter Dual Port High Speed	768-1039-ND ***NEW!***	40.00	36.00	32.00	USB-COM485-PLUS-2
16	Module USB to RS232 Converter Quad Port High Speed	768-1034-ND ***NEW!***	49.00	44.10	39.20	USB-COM232-PLUS-4
16	Module USB to RS422 Converter Quad Port High Speed	768-1037-ND ***NEW!***	86.00	77.40	68.80	USB-COM422-PLUS-4
16	Module USB to RS485 Converter Quad Port High Speed	768-1040-ND ***NEW!***	60.00	54.00	48.00	USB-COM485-PLUS-4

USB Host (Vinculum) and Serial Controllers

Vinculum USB Host Controller IC

VNC1L-1A: The Vinculum VNC1L is the first in its family of Embedded USB host controller integrated circuit devices. The device utilizes its built-in MCU and embedded flash memory to handle the USB host interface by encapsulating the USB device classes in the firmware. When interfacing to mass storage devices such as USB flash drives, Vinculum transparently handles the FAT file structure communicating via UART, SPI or parallel FIFO interfaces through a simple to implement command set. Vinculum provides a new cost effective solution for providing USB host capability into products that previously did not have the hardware resources available. **Features:** • 8/32 bit V-MCU Core • Dual DMA controllers for hardware acceleration • 64KByte embedded flash ROM program memory • 4KByte internal data SRAM • 2 USB 2.0 Low/Full speed USB Host/Slave ports • UART, SPI and parallel FIFO interfaces • Up to 28 GPIO interface pins for data I/O • 3.3V operation with 5V safe inputs • Low operating and USB suspend current • Full driver support for the target/slave applications • Package: 48-LQFP • Multi-processor configuration capable • FIFO interface mode with 8 bit bidirectional data bus and simple 4 wire handshake for data I/O and command monitor interface • Single chip embedded USB host/slave controller IC device • Entire USB protocol handled on the chip • Firmware easily upgradable in the field • Support for bus powered, self powered, and high powered USB device configurations • -40°C ~ 85°C operating temperature range

VPROG-1: The VPROG-1 is used to program individual Vinculum Host Controller devices or it can be used to program Vinculum Host Controller devices used on the VDIP1 and VDIP2. **Features:** • USB controlled and powered • Quick and easy programming of individual Vinculum host controller devices • Quick and easy programming of VDIP host controller prototyping modules • Quick and easy programming of ganged VPROG-1 (up to 10) programmers • Easy to use VNC_PROG software • Visual indication of programming progress and status using LEDs • Requires Socket Module

Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	FTDI Part No.
768-1000-1-ND	10.90	104.00	497.50	768-1000-2-ND	6950.02/M	VNC1L-1A-REEL
768-1045-ND† ***NEW!***	55.00	—	—	—	—	VPROG-1

† Bulk

NEW! Vinculum II Embedded Dual USB Host Controller ICs

Vinculum-II is FTDI's 2nd generation of USB Host devices. The CPU has been upgraded from the previous VNC1L device dramatically increasing the processing power. The IC architecture has been designed to take care of most of the general USB data transfers, thus freeing up processing power for user applications. Flash and RAM memory has been increased providing larger user areas of memory for the designer to incorporate his own code. The designers also have the ability to create their own firmware using the new suite of software development tools. **Features:** • Embedded processor core • 16-bit Harvard architecture • Two full-speed or low-speed USB 2.0 interfaces capable of host or slave functions • 256Kbytes on-chip E-Flash Memory (128K x 16-bits) • 16Kbytes on-chip Data RAM (4K x 32-bits) • Programmable UART up to 3Mbaud • Two SPI (Serial Peripheral) slave interfaces and one SPI master interface • Reduced power modes capability • Variable instruction length • Native support for 8, 16 and 32 bit data types • 8-bit wide FIFO Interface • Firmware upgrades via UART, SPI, FIFO Interface or USB Flash Drive • 12MHz oscillator using external crystal • General-purpose timers • Up to 44 configurable I/O pins using the I/O multiplexer • 3.3 Volt Supply • -40°C ~ 85°C extended operating temperature range

Package	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel† Qty.	Pricing	FTDI Part No.
64-QFN	768-1046-1-ND	4.94	4.29	4.09	3,000	3700.00/M	VNC2-64Q1B-REEL
64-LQFP	768-1047-1-ND	4.94	4.29	4.09	1,000	3775.00	VNC2-64L1B-REEL
48-QFN	768-1048-1-ND	4.39	3.82	3.64	3,000	3275.00/M	VNC2-48Q1B-REEL
48-LQFP	768-1049-1-ND	4.39	3.82	3.64	1,500	3325.00/M	VNC2-48L1B-REEL
32-QFN	768-1050-1-ND	4.00	3.48	3.31	3,000	2987.50/M	VNC2-32Q1B-REEL
32-LQFP	768-1051-1-ND	4.00	3.48	3.31	3,000	3025.00/M	VNC2-32L1B-REEL

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Vinculum II Evaluation Board and Debug Module

The V2-EVAL is a hardware platform designed to support easy evaluation of FTDI's VNC2 series of embedded USB host controller devices. • Operating Temperature Range: 0°C ~ 55°C • Requires Daughter Board Modules
The Debug module provides connectivity between the VNC2 development software and the debug interface pin on the VNC2 USB host controller device.

Description	Digi-Key Part No.	Price Each 1	10	50	FTDI Part No.
V2-EVAL Kit with Base Board, Power Supply and Cables	768-1062-ND	79.00	72.00	—	V2-EVAL
Daughterboard Module with 32-Pin QFN VNC2 Device	768-1061-ND	12.46	11.33	10.30	V2-EVAL-EXT32
Daughterboard Module with 48-Pin QFN VNC2 Device	768-1060-ND	13.71	12.46	11.33	V2-EVAL-EXT48
Daughterboard Module with 64-Pin QFN VNC2 Device	768-1059-ND	14.96	13.60	12.36	V2-EVAL-EXT64
VNC2 Debugger Module	768-1052-ND	16.83	15.30	14.07	VNC2 DEBUG MODULE

VDrive2 Module

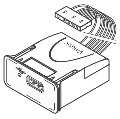

The VDrive2 module provides an easy solution for adding a USB flash disk interface to an existing product. Only four signal lines plus 5V supply and ground are required to be connected. Using the VDAP firmware, the I/O interface can be selected between the serial UART or SPI using the on-board jumper pins. **Features:** • Uses VNC1L embedded USB host controller IC device • USB 'A' type socket to connect USB flash disk • Traffic indicator LED • 2mm (0.08") pitch 8 pin connector • 8-way header interconnect cable provided • Jumper selectable UART or SPI interfaces • Enclosure with snap in place clips allows for easy front panel mounting • Program or update firmware via USB flash disk or via UART interface

768-1003-ND (VDRIVE2) **$24.50**

V-Evaluation Board

The V-Evaluation kit is a hardware platform that designers can use to develop embedded USB host systems based on VNC1L devices.

Features: • Inbuilt VNC1L USB device programmer/terminal emulator/command monitor hardware • Two VNC1L USB Host/Slave ports • Generous prototyping area for standard DIP and SIL devices • Multiple I/O port connectors grouped by port name and/or function • LEDs and switches for user interaction • Downloadable programming, terminal emulation and debug monitor software • Downloadable HID class example project including PIC source code in "C"

Kit Includes: • V-Evaluation development board • 5V/1A universal plug top PSU • USB A/B cable to connect to a host PC in programming/terminal emulation or debugging modes • USB gender changer for USB slave mode applications

768-1006-ND (V-EVAL-1) **$69.99**

VMusic2 Audio Module

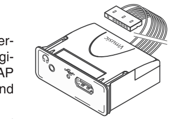

The VMusic2 module is a product which not only lets you add USB flash disk interfacing to your product, but also allows you to play back MP3 and other popular digital audio formats directly from a USB flash disk. Extensions to the Vinculum VDAP command set allows you to play a selected file, as well as control the volume and balance of the sound channel, and monitor the status of the file being played.

Features: • Uses VNC1L-1A embedded USB host controlled IC device combined with VLSI VS1003 IC for music playback • USB 'A' type socket to connect USB flash disk • Stereo 3.5mm headphone jack socket and audio line-out connector for audio playback • Jumper selectable UART or SPI interfaces • Only four signals to connect, excluding power and ground • 2mm (0.08") pitch 8-pin connector compatible with TTL-232R-3V3-2mm cable for easy evaluation • Single 5V supply input • Traffic indicator LED • Program or update firmware via USB flash disk or UART interface

768-1004-ND (VMUSIC2) **$37.50**

VDIP1, VDIP2, V2DIP1 and V2DIP2 Modules

VDIP1 and VDIP2 Modules

VDIP1

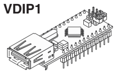

VDIP2

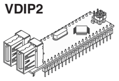

The VDIP modules are MCU to embedded USB host controller development modules for the VNC1L IC device. The VDIP1 is supplied on a PCB designed to fit a 24-pin Dip socket and the VDIP2 is supplied on a PCB designed to fit into a 40-pin Dip socket which provides access to UART, parallel FIFO, and SPI interface pins on the VNC1L device with its AD and AC bus pins. **Features:** • Jumper selectable UART, parallel FIFO, or SPI MCU interfaces • Uses VNC1L embedded USB host controller IC device • Single 5V supply input • Auxiliary 3.3V/200mA power output to external logic • Power indicator, and USB traffic indicator LEDs • VDIP1: USB 'A' type socket to interface with USB peripheral devices • VDIP2: Two vertically mounted USB 'A' type socket to interface with USB peripheral devices

768-1001-ND (VDIP1) **$24.50**
768-1002-ND (VDIP2) **$29.50**

V2DIP1 and V2DIP2 Vinculum II Modules

The V2DIP modules are designed to allow rapid development of designs using the VNC2 embedded USB host controller IC devices. The module provides access to the UART, parallel FIFO and SPI interface pins of the VNC2 device via its IO bus pins. **Features:** • UART, parallel FIFO and SPI interfaces can be programmed to a choice of available I/O pins • Single 5V supply input from DIL connectors or 5V supplied via USB VBUS slave interface or debugger module • Auxiliary 3.3V / 200mA power output to external logic • Power and traffic indicator LED's • Debugger interface pin available on DIL pins or via 6 way male header which interfaces to separate debugger module • Firmware upgrades via UART or debugger interface pin header

768-1058-ND (V2DIP1-32) ***NEW!*** **$18.69**
768-1057-ND (V2DIP1-48) ***NEW!*** **$21.50**
768-1056-ND (V2DIP1-64) ***NEW!*** **$24.30**
768-1055-ND (V2DIP2-32) ***NEW!*** **$22.43**
768-1054-ND (V2DIP2-48) ***NEW!*** **$25.24**
768-1053-ND (V2DIP2-64) ***NEW!*** **$28.04**

VF2F2 Module

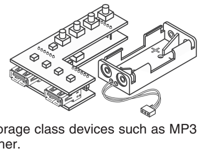

The VF2F2 is a reference design for the Vinculum VNC1L. It is designed as a stand alone application which allows for the back up of files from a digital camera onto a USB flash disk. At the push of a button, all the picture files on the camera are copied to a unique folder on a USB flash disk so that the digital camera memory can be re-used to take further pictures. The VF2F2 is powered by two AAA size alkaline batteries. In addition this reference design and evaluation kit could be used with other USB mass storage class devices such as MP3 players, or even for copying files directly from one USB flash disk onto another.

Features: • Two USB 'A' type sockets connect to digital camera and USB flash disk respectively • Uses VNC1L embedded USB host controller IC device • Single button file backup function • Intelligent LED illustrate successful USB flash disk enumeration, file copy function, and error conditions • On-board DC-DC converter supplies the circuitry with 5V and 3.3V power from two AAA cells • Program or update firmware via USB flash disk or UART interface

768-1005-ND (VF2F2) **$37.50**

USB-UART and USB Interface ICs

USB to Serial UART IC Devices (FT232): The FT232BL includes a 3.3V regulator, a USB transceiver that provides USB 1.1/USB 2.0 full speed physical interface and a 6MHz oscillator. The FT232RL/RQ has all the features of the BL but includes on-board EEPROM, as well as a 12MHz oscillator and the FTDIChip-ID™ security dongle feature. All FTDI ICs feature a wide range of royalty free device drivers for 32 and 64 bit operating systems including Windows CE, XP, Vista, Linux and Mac OS.

Dual USB to UART/FIFO IC Devices (FT2232D): The FT2232 device features two multi-purpose UART/FIFO controllers which can be configured individually in several different mode, as well as a UART interface, a FIFO interface and the Bit-Bang I/O mode. The FT2232 offers a variety of additional new modes of operation including a Multi-Protocol Synchronous Serial Engine (MPSSE) interface which is designed specifically for synchronous serial protocols such as I²C, JTAG and SPI bus.

USB to Parallel/FIFO IC Devices (FT245): The FT245R is a USB to parallel FIFO interface, with the new FTDIChip-ID™ security dongle feature. In addition, asynchronous and synchronous Bit-Bang interface modes are available. USB to parallel designs using the FT245R have been further simplified by fully integrating the external EEPROM, clock circuit and USB termination resistors onto the device. The FT245R adds a new function compared with its predecessors, effectively making it a "2-in-1" chip for some application areas.

Hi-Speed Multichannel USB to UART/FIFO IC Devices (FT2232H/FT4232H): The FT2232H (dual-channel) and the FT4232H (quad-channel) are USB 2.0 Hi-Speed (480Mb/s) to UART/FIFO ICs capable of being configured in a variety of industry standard serial or parallel interfaces by utilizing the Multi-Protocol Serial Synchronous Engines (MPSEE) which allow for communication using JTAG, I2C and SPI.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	FTDI Part No.
USB to Serial UART IC	28-SSOP	768-1007-1-ND	4.50	4.05	3.85	2,000	2650.01/M	FT232RL-REEL
USB to Serial UART IC	32-QFN	768-1008-1-ND	4.50	4.05	3.85	6,000	2175.00/M	FT232RQ-REEL
USB to Serial UART IC	32-LQFP	768-1009-1-ND	5.75	4.95	4.60	1,000	3300.01	FT232BL-REEL
Dual USB UART/FIFO IC	48-LQFP	768-1010-1-ND	6.99	6.28	5.59	1,000	3800.01	FT2232D-REEL
USB to Parallel FIFO IC	28-SSOP	768-1011-1-ND	4.50	4.05	3.85	2,000	2650.01/M	FT245RL-REEL
USB to Parallel FIFO IC	32-QFN	768-1012-1-ND	4.50	4.05	3.85	6,000	2175.00/M	FT245RQ-REEL
USB to Multipurpose UART/FIFO IC	64-LQFP	768-1024-1-ND	6.71	6.20	5.77	1,000	3699.99	FT2232HL-REEL
USB to Multipurpose UART/FIFO IC	64-QFN	768-1025-1-ND	6.71	6.20	5.77	4,000	3600.00/M	FT2232HQ-REEL
USB to Multipurpose UART/MPSSE IC	64-LQFP	768-1026-1-ND	9.59	8.66	8.10	1,000	4950.00	FT4232HL-REEL
USB to Multipurpose UART/MPSSE IC	64-QFN	768-1027-1-ND	9.59	8.66	8.10	4,000	4950.00/M	FT4232HQ-REEL

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

USB Interface Modules and Accessories

Fig. 1

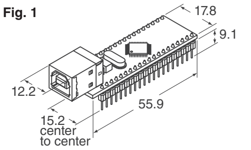

Fig. 2

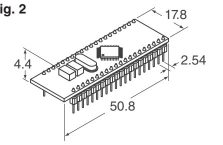

Fig. 3

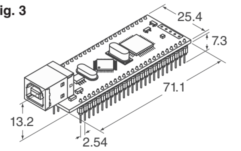

Fig. 4

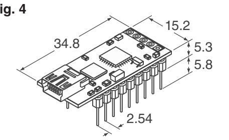

Fig. 5

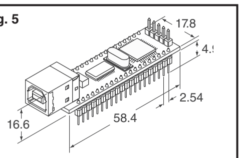

Fig. 6

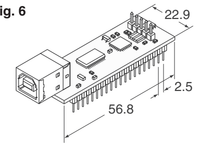

Fig. 7

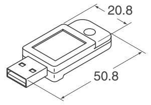

Fig. 8

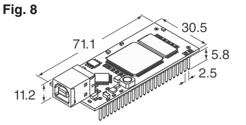

Fig. 9

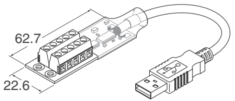

Overall length: 1.88m

Fig. 10

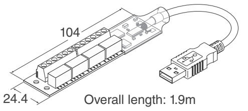

Overall length: 1.9m

Fig. 11

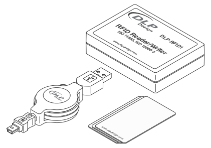

Fig. 12

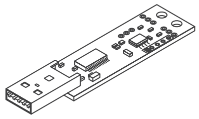

Fig. 13

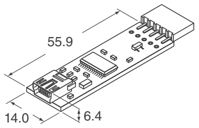

Fig. 14

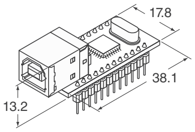

Fig. 15

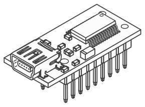

DLP-USBxxxR Shown

Fig. 16 ***NEW!***

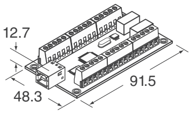

Fig. 17 ***NEW!***

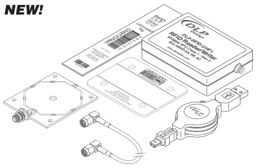

Fig. 18 ***NEW!***

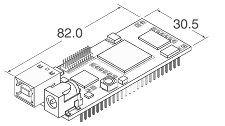

Fig.	Description	Digi-Key Part No.	Price Each	DLP Design Part No.
1	FT2232D USB to UART/FIFO Dual-Channel Module, Pinned	813-1000-ND	35.00	DLP-2232M-G
2	FT2232D USB to UART/FIFO Dual-Channel Module, Plated thru-hole	813-1001-ND	29.95	DLP-2232ML-G
3	FT2232D USB to FIFO Module with PIC16F877A, On board firmware uploader, No programmer required	813-1002-ND	50.00	DLP-2232PB-G
4	Miniature USB Module with PIC18F2410	813-1003-ND	29.95	DLP-232PC
5	Module USB to FIFO with Interface to a PIC16F877A MCU	813-1004-ND	40.00	DLP-245PB-G
6	Module USB to FIFO Interface to an SX48 MCU	813-1006-ND	44.95	DLP-245SY-G
7	USB Security Dongle, with a Hard-Coded Unique Serial Number	813-1007-ND	14.95	DLP-D-G
8	USB FPGA Module with Xilinx Spartan 3E	813-1008-ND	119.95	DLP-FPGA
—	USB FPGA Module with Xilinx Spartan 3E, 200 page Training Manual included	813-1009-ND	200.00	DLP-FPGA-M
9	USB Data Acquisition Board, 8-Channel	813-1010-ND	29.95	DLP-IO8-G
10	USB Relay Latching Module, 4-Channel	813-1011-ND	44.95	DLP-IOR4
11	USB RFID Reader Kit, Includes RFID Reader with Retractable USB Cable, Tag Assortment, 13.56 MHz	813-1012-ND	119.95	DLP-RFID1
—	USB RFID Reader OEM Board, ISO 15693, 18000-3, Tag-it™ HF-I Compatible, 13.56 MHz	813-1013-ND	94.50	DLP-RFID-OG
12	USB Data/Temperature Acquisition Board, 3-Channel, with DS18B20 Temperature Sensor	813-1015-ND	25.00	DLP-TEMP-G
—	USB Temperature and Humidity Sensor with Windows Software for Logging or Alerts	813-1016-ND	89.95	DLP-TH1B
13	USB to UART Module, Type B Mini USB Connector	813-1017-ND	20.00	DLP-TXRX-G
14	USB to UART Module, Type B USB Connector	813-1018-ND	25.00	DLP-USB232M-G
14	USB to FIFO Module, Type B USB Connector	813-1019-ND	25.00	DLP-USB245M-G
—	USB Powered Module RFID Reader, 8-Channel	813-1020-ND	199.95	DLP-RFID-LP8C
—	Ferrite-Based External Antenna	813-1021-ND	19.95	DLP-FANT
—	Coax Cable with Reverse-Polarity SMA Connector	813-1022-ND	16.95	DLP-COAX1
—	External Antenna with Attached 15-foot Coax Cable with Reverse-Polarity SMA Connector	813-1023-ND	39.95	DLP-RFID-ANT
15	USB to Serial UART Module	813-1024-ND	18.00	DLP-USB232R
15	USB to Parallel FIFO Module	813-1025-ND	18.00	DLP-USB245R
15	USB High Speed to UART/FIFO Module, 18-DIP	813-1026-ND	28.95	DLP-USB1232H
16	USB Based 20 Channel Data Acquisition Module	813-1027-ND ***NEW!***	49.95	DLP-IO20
17	Class 1 / Generation 2 RFID Reader-Writer	813-1029-ND ***NEW!***	219.95	DLP-RFID-UHF1B
18	USB - FPGA Module	813-1030-ND ***NEW!***	149.95	DLP-HS-FPGA

OTP 8-Bit Microcontrollers

Operating Temperature Range: • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Memory Size											Price Each		
Program Words	RAM Bytes	I/O Lines	ADC	Timers/ WDT	Interface	Int. Oscillator (MHz)	Max. Speed (MHz)	Operating Temperature	Package	Digi-Key Part No.	1	10	25
512 x 14	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16HV540-04/P-ND◆	2.02	1.48	1.44
	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16HV540-04/SO-ND◆	2.04	1.51	1.47
	25 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	18-DIP	PIC16HV540-20/P-ND◆	2.16	1.57	1.53
	25 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	18-SOIC	PIC16HV540-20/SO-ND◆	2.18	1.61	1.57
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16HV540-04I/P-ND◆	2.02	1.48	1.44
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-SOIC	PIC16HV540-04I/SO-ND◆	2.04	1.51	1.47
	25 x 8	20	—	1-8bit / Yes	—	—	4	Commercial	28-DIP	PIC16C55A-04/P-ND◆	2.46	1.81	1.77
	25 x 8	20	—	1-8bit / Yes	—	—	4	Commercial	28-SOIC	PIC16C55A-04/SO-ND◆	2.56	1.88	1.83
	25 x 8	20	—	1-8bit / Yes	—	—	4	Commercial	28-DIP .3"	PIC16C55A-04/SP-ND◆	2.46	1.81	1.77
	25 x 8	20	—	1-8bit / Yes	—	—	4	Industrial	28-DIP	PIC16C55A-04I/P-ND◆	2.70	1.99	1.94
	25 x 8	20	—	1-8bit / Yes	—	—	4	Industrial	28-SOIC	PIC16C55A-04I/SO-ND◆	2.82	2.07	2.02
	25 x 8	20	—	1-8bit / Yes	—	—	20	Commercial	28-DIP	PIC16C55A-20/P-ND◆	2.74	2.02	1.97
	25 x 8	20	—	1-8bit / Yes	—	—	20	Commercial	28-SOIC	PIC16C55A-20/SO-ND◆	2.86	2.10	2.05
	25 x 8	20	—	1-8bit / Yes	—	—	20	Commercial	28-DIP .3"	PIC16C55A-20/SP-ND◆	2.74	2.02	1.97
	25 x 8	20	—	1-8bit / Yes	—	—	4	Commercial	28-DIP	PIC16LC55A-04/P-ND	2.58	1.89	1.84
	25 x 8	20	—	1-8bit / Yes	—	—	4	Commercial	28-SOIC	PIC16LC55A-04/SO-ND	2.68	1.97	1.92
	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C554-04/P-ND◆	3.24	2.70	2.60
	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C554-04/SO-ND◆	3.32	2.76	2.66
	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C620A-04/P-ND◆	1.96	1.44	1.41

◆ ***RoHS Compliant*** † UVEPROM

(Continued)

OTP 8-Bit Microcontrollers *(Cont.)*

Operating Temperature Range: • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Memory Size											Price Each		
Program Words	RAM Bytes	I/O Lines	ADC	Timers/ WDT	Interface	Int. Oscillator (MHz)	Max. Speed (MHz)	Operating Temperature	Package	Digi-Key Part No.	1	10	25
512 x 14	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C620A-04/SO-ND◆	2.02	1.48	1.44
	80 x 8	13	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16C620A-04I/P-ND◆	1.96	1.44	1.41
	80 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-DIP	PIC16C620A-20/P-ND◆	2.08	1.54	1.50
	80 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-SOIC	PIC16C620A-20/SO-ND◆	2.16	1.57	1.53
1K x 14	25 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	18-CDIP	PIC16C56A/JW-ND†	12.68	10.15	8.52
	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C56A-04/P-ND◆	2.28	1.67	1.63
	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C56A-04/SO-ND◆	2.32	1.70	1.66
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16C56A-04I/P-ND◆	2.48	1.83	1.78
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-SOIC	PIC16C56A-04I/SO-ND◆	2.54	1.86	1.81
	25 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	18-DIP	PIC16C56A-20/P-ND◆	2.42	1.78	1.74
	25 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	18-SOIC	PIC16C56A-20/SO-ND◆	2.46	1.81	1.77
	25 x 8	12	—	1-8bit / Yes	—	—	20	Industrial	18-DIP	PIC16C56A-20I/P-ND◆	2.68	1.96	1.91
	25 x 8	12	—	1-8bit / Yes	—	—	20	Industrial	18-SOIC	PIC16C56A-20I/SO-ND	2.72	2.01	1.96
	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16LC56A-04/P-ND	2.36	1.75	1.71
	25 x 8	12	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16LC56A-04/SO-ND	2.42	1.78	1.74
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16LC56A-04I/P-ND	2.62	1.93	1.88
	25 x 8	12	—	1-8bit / Yes	—	—	4	Industrial	18-SOIC	PIC16LC56A-04I/SO-ND	2.68	1.96	1.91
	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C621A-04/P-ND◆	2.20	1.62	1.58
	80 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C621A-04/SO-ND◆	2.24	1.65	1.61
	80 x 8	13	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16C621A-04I/P-ND◆	2.42	1.78	1.74
	80 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-DIP	PIC16C621A-20/P-ND◆	2.36	1.73	1.69
	80 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-SOIC	PIC16C621A-20/SO-ND◆	2.40	1.77	1.72
	128 x 16	16	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	—	4	20	Commercial	20-CDIP	PIC16C781/JW-ND	17.52	13.14	11.77
	128 x 16	16	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	—	4	20	Industrial	20-DIP	PIC16C781-I/P-ND◆	4.84	3.14	3.03
	128 x 16	16	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	—	4	20	Industrial	20-SOIC	PIC16C781-I/SO-ND◆	4.92	3.21	3.10
2K x 14	128 x 8	12	—	1-8bit / Yes	—	—	20	Commercial	20-CDIP	PIC16C432/JW-ND†	15.20	12.16	10.22
	128 x 8	12	—	1-8bit / Yes	—	—	20	Industrial	20-SSOP	PIC16C432-I/SS-ND	4.56	2.97	2.87
	128 x 8	6	4-ch. 8-Bit	1-8bit / Yes	—	4	10	Commercial	18-CDIP	PIC16C433/JW-ND†	11.57	11.15	10.93
	128 x 8	6	4-ch. 8-Bit	1-8bit / Yes	—	4	10	Industrial	18-DIP	PIC16C433-I/P-ND	4.26	3.20	2.69
	128 x 8	6	4-ch. 8-Bit	1-8bit / Yes	—	4	10	Industrial	18-SOIC	PIC16C433-I/SO-ND	4.26	3.20	2.69
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	4	Commercial	28-DIP .3”	PIC16C62B-04/SP-ND◆	3.84	2.82	2.75
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	4	Commercial	28-SOIC	PIC16C62B-04/SO-ND◆	3.84	2.82	2.75
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	4	Commercial	28-SSOP	PIC16C62B-04/SS-ND◆	4.06	2.99	2.91
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	4	Industrial	28-DIP .3”	PIC16C62B-04I/SP-ND◆	4.24	3.11	3.03
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	20	Commercial	28-DIP .3”	PIC16C62B-20/SP-ND◆	4.10	3.02	2.94
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	20	Commercial	28-SOIC	PIC16C62B-20/SO-ND◆	4.10	3.02	2.94
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	20	Commercial	28-SSOP	PIC16C62B-20/SS-ND◆	4.34	3.18	3.10
	128 x 8	22	—	2-8bit, 1-16bit / Yes	SSP (2MI2C, SPI)	—	20	Industrial	28-DIP .3”	PIC16C62B-20I/SP-ND◆	4.52	3.32	3.24
	128 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C622A-04/P-ND◆	2.48	1.83	1.78
	128 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C622A-04/SO-ND◆	2.54	1.86	1.81
	128 x 8	13	—	1-8bit / Yes	—	—	4	Industrial	18-DIP	PIC16C622A-04I/P-ND◆	2.72	2.01	1.96
	128 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-DIP	PIC16C622A-20/P-ND◆	2.68	1.96	1.91
	128 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-SOIC	PIC16C622A-20/SO-ND◆	2.70	1.99	1.94
	128 x 8	13	—	1-8bit / Yes	—	—	20	Industrial	18-DIP	PIC16C622A-20I/P-ND◆	2.92	2.15	2.10
	128 x 8	13	—	1-8bit / Yes	—	—	20	Industrial	18-SOIC	PIC16C622A-20I/SO-ND◆	2.98	2.18	2.13
	128 x 8	13	—	1-8bit / Yes	—	—	20	Commercial	18-CDip	PIC16C558/JW-ND†	14.14	10.61	9.50
	128 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-DIP	PIC16C558-04/P-ND◆	4.26	3.54	3.41
	128 x 8	13	—	1-8bit / Yes	—	—	4	Commercial	18-SOIC	PIC16C558-04/SO-ND◆	4.36	3.61	3.48
	256 x 8	15	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	4	20	Industrial	20-SOIC	PIC16C770-I/SO-ND◆	3.84	2.50	2.41
4K x 14	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Commercial	28-DIP .3”	PIC16C63A-04/SP-ND◆	4.68	3.45	3.36
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Commercial	28-SOIC	PIC16C63A-04/SO-ND◆	4.68	3.45	3.36
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Commercial	28-SSOP	PIC16C63A-04/SS-ND◆	4.90	3.61	3.52
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Industrial	28-DIP .3”	PIC16C63A-04I/SP-ND◆	5.18	3.80	3.70
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Industrial	28-SOIC	PIC16C63A-04I/SO-ND◆	5.18	3.80	3.70
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Industrial	28-SSOP	PIC16C63A-04I/SS-ND◆	5.40	3.98	3.88
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Commercial	28-DIP .3”	PIC16C63A-20/SP-ND◆	5.04	3.71	3.61
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Commercial	28-SOIC	PIC16C63A-20/SO-ND◆	5.04	3.71	3.61
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Commercial	28-SSOP	PIC16C63A-20/SS-ND◆	5.26	3.87	3.77
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Industrial	28-DIP .3”	PIC16C63A-20I/SP-ND◆	5.54	4.08	3.97
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Industrial	28-SOIC	PIC16C63A-20I/SO-ND◆	5.54	4.08	3.97
	192 x 8	22	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Industrial	28-SSOP	PIC16C63A-20I/SS-ND◆	5.78	4.25	4.14
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Commercial	40-DIP	PIC16C65B-04/P-ND◆	5.26	3.87	3.77
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Commercial	44-PLCC	PIC16C65B-04/L-ND◆	6.79	5.66	5.30
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	4	Industrial	40-DIP	PIC16C65B-04I/P-ND◆	5.82	4.27	4.16
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Commercial	40-DIP	PIC16C65B-20/P-ND◆	5.64	4.14	4.03
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Commercial	44-PLCC	PIC16C65B-20/L-ND◆	7.20	6.00	5.62
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Industrial	40-DIP	PIC16C65B-20I/P-ND◆	6.20	4.56	4.44
	192 x 8	33	—	2-8bit, 1-16bit / Yes	USART, SSP (2MI2C, SPI)	—	20	Industrial	44-PLCC	PIC16C65B-20I/L-ND◆	7.06	6.53	6.11
	256 x 8	15	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	SSP (MI2C, SPI)	4	20	Commercial	20-CDIP	PIC16C771/JW-ND†	14.84	11.13	9.97
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	28-DIP .3”	PIC16C773/SP-ND◆	5.90	4.33	4.22
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	28-SOIC	PIC16C773/SO-ND◆	5.90	4.33	4.22
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Industrial	28-DIP .3”	PIC16C773-I/SP-ND◆	6.48	4.77	4.64
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Industrial	28-SOIC	PIC16C773-I/SO-ND◆	6.48	4.77	4.64
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	28-DIP .3”	PIC16LC773/SP-ND◆	6.20	4.56	4.44
	256 x 8	22	6-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	28-SOIC	PIC16LC773/SO-ND◆	6.20	4.56	4.44
	256 x 8	33	10-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	40-DIP	PIC16C774/P-ND◆	7.16	5.25	5.11
	256 x 8	33	10-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Industrial	40-DIP	PIC16C774-I/P-ND◆	7.88	5.79	5.64
	256 x 8	33	10-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Industrial	44-PLCC	PIC16C774-I/L-ND◆	8.42	7.01	6.75
	256 x 8	33	10-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	40-DIP	PIC16LC774/P-ND◆	7.50	5.52	5.38
	256 x 8	33	10-ch. 12-Bit	2-8bit, 1-16bit / Yes	AUSART, SSP (MI2C, SPI)	—	20	Commercial	44-PLCC	PIC16LC774/L-ND◆	8.10	6.73	6.48
8K x 14	256 x 8	22	5-ch. 8-Bit	1-16bit / Yes	USART	—	20	Industrial	28-DIP .3”	PIC16C745-I/SP-ND◆	4.74	3.08	2.97
	256 x 8	22	5-ch. 8-Bit	1-16bit / Yes	USART	—	20	Industrial	28-SOIC	PIC16C745-I/SO-ND◆	4.74	3.08	2.97
	256 x 8	33	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	USART	—	20	Industrial	44-PLCC	PIC16C765-I/L-ND◆	5.94	4.37	4.25
	256 x 8	33	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	USART	—	20	Industrial	40-DIP	PIC16C765-I/P-ND◆	5.66	3.68	3.55
	256 x 8	33	8-ch. 8-Bit	2-8bit, 1-16bit / Yes	USART	—	20	Industrial	44-TQFP	PIC16C765-I/PT-ND◆	6.52	4.23	4.08

◆ ***RoHS Compliant*** † UVEPROM

Microcontrollers

PIC18Cs

RoHS COMPLIANT

Program Memory Type	Memory Size																Price Each		
	Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I2C	SPI	CAN	PWM	A/D	Analog Comp.	Int Osc	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
ROMless	—	1536	—	26	1/3	1 (USART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	25	4.2 ~ 5.5	Industrial	68-PLCC	PIC18C601-I/L-ND	5.30	4.41	4.25
	—	1536	—	37	1/3	1 (USART)		1	—	2	12-ch. 10-bit	—	—	25	4.2 ~ 5.5	Industrial	84-PLCC	PIC18C801-I/L-ND	6.52	5.41	5.21
	—	1536	—	37	1/3	1 (USART)		1	—	2	12-ch. 10-bit	—	—	25	4.2 ~ 5.5	Industrial	80-TQFP	PIC18C801-I/PT-ND	5.88	4.88	4.70
PROM	16K x 16	1536	—	52	1/3	1 (USART)	1 (Master/ Slave)	1	Y (CAN 2.0B)	2	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Industrial	68-PLCC	PIC18C658-I/L-ND	12.66	9.31	9.07
	16K x 16	1536	—	52	1/3	1 (USART)		1		2	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Industrial	64-TQFP	PIC18C658-I/PT-ND	12.12	8.92	8.69

General Purpose 8-bit PIC *Flash* Microcontrollers

PIC10F Devices

Memory Size															Price Each			Tape and Reel Pricing‡
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8-bit	UART	I2C™	SPI™	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No. 1	10	25	3,000
256 x 12	16	—	4	1	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC10F200-I/MC-ND	.56	.44	.41	—
	16	—	4	1	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F200-I/P-ND	.58	.46	.42	—
	16	—	4	1	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ext.	SOT23-6	PIC10F200T-E/OTCT-ND† ***NEW!***	.92	.54	.52	510.00/M
	16	—	4	1	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F200T-I/OTCT-ND†	.59	.41	.38	340.00/M
	16	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC10F204-I/MC-ND	.62	.48	.44	—
	16	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F204-I/P-ND	.64	.50	.46	—
	16	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F204T-I/OTCT-ND†	.65	.45	.42	380.00/M
	16	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DFN	PIC10F220-I/MC-ND	.66	.52	.48	—
	16	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DIP	PIC10F220-I/P-ND	.68	.54	.49	—
	16	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F220T-I/OTCT-ND†	.70	.49	.45	410.00/M
512 x 12	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC10F202-I/MC-ND	.62	.48	.44	—
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F202-I/P-ND	.64	.50	.46	—
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F202T-I/OTCT-ND†	.65	.45	.42	380.00/M
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC10F206-I/MC-ND	.66	.52	.48	—
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F206-I/P-ND	.68	.54	.49	—
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F206T-I/OTCT-ND†	.70	.49	.45	410.00/M
	23	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DFN	PIC10F222-I/MC-ND	.72	.56	.51	—
	23	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DIP	PIC10F222-I/P-ND	.74	.58	.53	—
	23	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	SOT23-6	PIC10F222T-I/OTCT-ND†	.77	.53	.49	440.00/M

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

PIC12F Devices

Memory Size																	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
512 x 12	25	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC12F508-I/MC-ND	.82	.64	.58
	25	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC12F508-I/P-ND	.84	.66	.60
	25	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F508-I/SN-ND	.72	.56	.51
	25	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F508-I/MS-ND	.78	.62	.57
1K x 12	41	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN	PIC12F509-I/MC-ND	.88	.69	.64
	41	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DIP	PIC12F509-I/P-ND	.90	.71	.65
	41	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-SOIJ	PIC12F509-I/SM-ND	.90	.71	.65
	41	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F509-I/SN-ND	.78	.62	.57
	41	—	5	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F509-I/MS-ND	.86	.67	.62
	38	—	5	1/—	—	—	—	—	3-ch. 8-bit	1	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F510-I/MS-ND	.94	.73	.67
	38	—	5	1/—	—	—	—	—	3-ch. 8-bit	1	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DIP	PIC12F510-I/P-ND	.98	.77	.71
	38	—	5	1/—	—	—	—	—	3-ch. 8-bit	1	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F510-I/SN-ND	.86	.67	.62
	41	64	5	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DFN	PIC12F519-I/MC-ND	.96	.75	.69
	41	64	5	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F519-I/MS-ND	.94	.73	.67
	41	64	5	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DIP	PIC12F519-I/P-ND	.98	.77	.71
	41	64	5	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F519-I/SN-ND	.86	.67	.62
	41	64	5	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ext.	8-MSOP	PIC12F519-E/MS-ND	1.02	.80	.73
1K x 14	38	—	5	1/—	—	—	—	—	3-ch. 8-bit	1	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DFN	PIC12F510-I/MC-ND	.96	.75	.69
	64	—	5	1/1	—	—	—	—	—	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F609-I/MD-ND	1.04	.81	.74
	64	—	5	1/1	—	—	—	—	—	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F609-I/MF-ND	1.04	.81	.74
	64	—	5	1/1	—	—	—	—	—	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F609-I/MS-ND	.98	.77	.71
	64	—	5	1/1	—	—	—	—	—	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F609-I/P-ND	1.04	.81	.74
	64	—	5	1/1	—	—	—	—	—	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F609-I/SN-ND	.90	.71	.65
	64	—	5	1/1	—	—	—	—	—	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F609T-I/SNTR-ND‡ ***NEW!***		2079.00/3,300	
	64	—	5	1/1	—	—	—	—	—	1	4MHz, 8MHz	20	User Defined	Ind.	8-MSOP	PIC12HV609-I/MS-ND	1.06	.83	.76
	64	—	5	1/1	—	—	—	—	—	1	4MHz, 8MHz	20	User Defined	Ind.	8-DIP	PIC12HV609-I/P-ND	1.10	.87	.80
	64	—	5	1/1	—	—	—	—	—	1	4MHz, 8MHz	20	User Defined	Ind.	8-SOIC	PIC12HV609-I/SN-ND	.98	.77	.71
	64	—	5	2/1	—	—	—	1	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	High	8-DFN	PIC12F615-H/MD-ND ***NEW!***	1.38	1.09	1.00
	64	—	5	2/1	—	—	—	1	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	High	8-MSOP	PIC12F615-H/MS-ND ***NEW!***	1.34	1.05	.96
	64	—	5	2/1	—	—	—	1	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	High	8-SOIC	PIC12F615-H/SN-ND ***NEW!***	1.26	.99	.91
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F615-I/MD-ND	1.08	.85	.78
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F615-I/MF-ND	1.08	.85	.78
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-MSOP	PIC12F615-I/MS-ND	1.04	.81	.74
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F615-I/P-ND	1.08	.85	.78
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F615-I/SN-ND	.96	.75	.69
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	User Defined	Ind.	8-DFN	PIC12HV615-I/MF-ND	1.16	.91	.83
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	User Defined	Ind.	8-DIP	PIC12HV615-I/P-ND	1.16	.91	.83
	64	—	5	2/1	—	—	—	—	4-ch. 10-bit	1	4MHz, 8MHz	20	User Defined	Ind.	8-SOIC	PIC12HV615-I/SN-ND	1.04	.81	.74
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F629-I/MD-ND	1.64	1.36	1.33
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F629-I/MF-ND	1.46	.97	.94
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F629-I/P-ND	1.40	.92	.90
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F629-I/SN-ND	1.28	.84	.82
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DFN	PIC12F629-E/MF-ND	1.60	1.05	1.03
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DIP	PIC12F629-E/P-ND	1.54	1.01	.98
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-SOIC	PIC12F629-E/SN-ND	1.40	.92	.90
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-SOIC	PIC12F629T-E/SNCT-ND†	1.64	.97	.94
	64	128	5	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-SOIC	PIC12F629T-E/SNTR-ND‡		3035.99/3,300	
	64	128	5	1/1	—	—	—	—	—	1	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F635-I/MD-ND	1.72	1.13	1.11
	64	128	5	1/1	—	—	—	—	—	1	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F635-I/MF-ND	1.72	1.13	1.11
	64	128	5	1/1	—	—	—	—	—	1	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F635-I/P-ND	1.66	1.09	1.07
	64	128	5	1/1	—	—	—	—	—	1	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F635-I/SN-ND	1.54	1.01	.98
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F675-I/MD-ND	2.02	1.67	1.63
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F675-I/MF-ND	1.60	1.05	1.03
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F675-I/P-ND	1.54	1.01	.98
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F675-I/SN-ND	1.40	.92	.90
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F675T-I/SNTR-ND‡		3035.99/3,300	
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DFN	PIC12F675-E/MF-ND	1.74	1.14	1.12
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DIP	PIC12F675-E/P-ND	1.68	1.10	1.07
	64	128	5	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ext.	8-SOIC	PIC12F675-E/SN-ND	1.54	1.02	.99

† Cut Tape ‡ Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: -40°F ~ 302°F (-40°C ~ 150°C) *(Continued)*

MICROCHIP

General Purpose 8-bit PIC ***Flash*** Microcontrollers *(Cont.)*

PIC16F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I²C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper- ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
512 x 12	25	—	12	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F54-I/P-ND◆	.80	.55	.54
	25	—	12	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16F54-I/SO-ND◆	.70	.48	.47
	25	—	12	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F54-I/SS-ND◆	.70	.48	.47
512 x 14	36	64	13	1/—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com.	18-DIP	PIC16LF83-04/P-ND◆	5.42	4.12	4.05
	36	64	13	1/—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Ind.	18-DIP	PIC16LF83-04I/P-ND◆	5.94	4.51	4.44
	36	64	13	1/—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com.	18-SOIC	PIC16LF83-04/SO-ND◆	5.52	4.18	4.11
1K x 12	72	—	11	1/—	—	—	—	—	—	—	4MHz	20	4.5 ~ 5.5	Ind.	14-DIP	PIC16F505-I/P-ND◆	1.02	.80	.73
	72	—	11	1/—	—	—	—	—	—	—	4MHz	20	4.5 ~ 5.5	Ind.	14-SOIC	PIC16F505-I/SL-ND◆	.84	.66	.60
	72	—	11	1/—	—	—	—	—	—	—	4MHz	20	4.5 ~ 5.5	Ind.	14-TSSOP	PIC16F505-I/ST-ND◆	.98	.77	.71
	72	—	11	1/—	—	—	—	—	—	—	4MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F505-I/MG-ND◆ ***NEW!***	1.30	.91	.85
	67	—	11	1/—	—	—	—	—	3	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F506-I/MG-ND◆ ***NEW!***	1.22	.87	.83
	67	—	11	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F506-I/P-ND◆	1.10	.86	.79
	67	—	11	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F506-I/SL-ND◆	.90	.71	.65
	67	—	11	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F506-I/ST-ND◆	1.06	.83	.76
	67	64	11	1/—	—	—	—	—	3	—	4MHz, 8MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F526-I/MG-ND◆ ***NEW!***	1.40	.98	.90
	72	—	12	1/—	—	—	—	—	—	—	4MHz	20	4.5 ~ 5.5	Ind.	14-DIP	PIC16F526-I/P-ND◆	1.14	.90	.82
1K x 14	67	64	12	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F526-I/SL-ND◆	.96	.75	.69
	67	64	12	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F526-I/ST-ND◆	1.10	.87	.80
	67	64	12	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ext.	14-DIP	PIC16F526-E/P-ND◆	1.24	.97	.89
	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F610-I/ML-ND◆	1.16	.91	.83
	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F610-I/P-ND◆	1.22	.95	.87
	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F610-I/SL-ND◆	1.04	.81	.74
	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F610-I/ST-ND◆	1.18	.93	.85
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F627A-I/ML-ND◆	2.82	1.83	1.77
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-DIP	PIC16F627A-I/P-ND◆	2.36	1.53	1.48
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-SOIC	PIC16F627A-I/SO-ND◆	2.40	1.56	1.51
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	20-SSOP	PIC16F627A-I/SS-ND◆	2.58	1.69	1.63
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF627A-I/ML-ND◆	2.88	1.89	1.82
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF627A-I/P-ND◆	2.46	1.61	1.55
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF627A-I/SO-ND◆	2.54	1.65	1.59
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF627A-I/SS-ND◆	2.72	1.78	1.72
	64	128	12	1/1	—	—	—	—	—	1	4MHz	20	4.5 ~ 5.5	Ind.	14-QFN	PIC16F630-I/ML-ND◆	1.86	1.22	1.19
	64	128	12	1/1	—	—	—	—	—	1	4MHz	20	4.5 ~ 5.5	Ind.	14-DIP	PIC16F630-I/P-ND◆	1.72	1.22	1.19
	64	128	12	1/1	—	—	—	—	—	1	4MHz	20	4.5 ~ 5.5	Ind.	14-SOIC	PIC16F630-I/SL-ND◆	1.66	1.09	1.07
	64	128	12	1/1	—	—	—	—	—	1	4MHz	20	4.5 ~ 5.5	Ind.	14-TSSOP	PIC16F630-I/ST-ND◆	1.92	1.26	1.23
	64	128	18	1/1	—	1	1	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-QFN	PIC16F631-I/ML-ND◆	1.76	1.30	1.27
	64	128	18	1/1	—	1	1	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-DIP	PIC16F631-I/P-ND◆	1.60	1.34	1.31
	64	128	18	1/1	—	1	1	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SOIC	PIC16F631-I/SO-ND◆	1.74	1.30	1.27
	64	128	18	1/1	—	1	1	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F631-I/SS-ND◆	1.60	1.25	1.15
	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F676-I/ML-ND◆	1.98	1.30	1.27
	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F676-I/P-ND◆	1.98	1.30	1.27
	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F676-I/SL-ND◆	1.78	1.18	1.15
	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F676-I/ST-ND◆	2.04	1.34	1.31
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F818-I/ML-ND◆	3.40	2.22	2.14
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	18-DIP	PIC16F818-I/P-ND◆	2.84	1.85	1.78
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	18-SOIC	PIC16F818-I/SO-ND◆	2.88	1.87	1.81
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F818-I/SS-ND◆	3.12	2.03	1.96
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF818-I/ML-ND◆	3.42	2.23	2.15
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF818-I/P-ND◆	2.98	1.93	1.86
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF818-I/SO-ND◆	3.04	1.97	1.90
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF818-I/SS-ND◆	3.30	2.13	2.06
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-04/P-ND◆	4.90	3.61	3.52
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	18-DIP	PIC16F84A-04I/P-ND◆	5.40	3.96	3.86
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-SOIC	PIC16F84A-04/SO-ND◆	5.00	3.68	3.58
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	18-SOIC	PIC16F84A-04I/SO-ND◆	5.50	4.03	3.93
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	20-SSOP	PIC16F84A-04/SS-ND◆	5.32	3.92	3.82
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F84A-04I/SS-ND◆	5.82	4.29	4.18
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16LF84A-04/P-ND◆	5.16	3.79	3.69
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF84A-04I/P-ND◆	5.64	4.14	4.03
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-SOIC	PIC16LF84A-04/SO-ND◆	5.24	3.85	3.75
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF84A-04I/SO-ND◆	5.74	4.22	4.11
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	20-SSOP	PIC16LF84A-04/SS-ND◆	5.58	4.11	4.00
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF84A-04I/SS-ND◆	6.06	4.46	4.35
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-20/P-ND◆	5.24	3.85	3.75
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F84A-20I/P-ND◆	5.76	4.24	4.13
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com.	18-SOIC	PIC16F84A-20/SO-ND◆	5.32	3.92	3.82
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16F84A-20I/SO-ND◆	5.84	4.30	4.19
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com.	20-SSOP	PIC16F84A-20/SS-ND◆	5.68	4.17	4.06
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F84A-20I/SS-ND◆	6.18	4.54	4.42
	64	—	11	1/1	—	—	—	—	—	2	8MHz	20	User Defined	Ind.	14-DIP	PIC16HV610-I/P-ND◆	1.28	1.01	.93
	64	—	11	1/1	—	—	—	—	—	2	8MHz	20	User Defined	Ind.	14-SOIC	PIC16HV610-I/SL-ND◆	1.10	.87	.80
2K x 12	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-DIP	PIC16F57-I/P-ND◆	1.24	.85	.83
	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16F57-I/SO-ND◆	.98	.69	.67
	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F57-I/SP-ND◆	1.24	.85	.83
	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16F57-I/SS-ND◆	.94	.65	.63
	134	—	32	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	40-Dip	PIC16F59-I/P-ND◆	1.56	1.02	1.00
	134	—	32	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16F59-I/PT-ND◆	1.58	1.04	1.02
2K x 14	128	—	12	2/1	—	—	—	1	8-ch. 10-bit	2	4MHz, 8MHz	20	2.0 ~ 5.5	High	16-QFN	PIC16F616-H/ML-ND◆ ***NEW!***	1.72	1.34	1.23
	128	—	12	2/1	—	—	—	1	8-ch. 10-bit	2	4MHz, 8MHz	20	2.0 ~ 5.5	High	14-SOIC	PIC16F616-H/SL-ND◆ ***NEW!***	1.58	1.25	1.14
	128	—	12	2/1	—	—	—	1	8-ch. 10-bit	2	4MHz, 8MHz	20	2.0 ~ 5.5	High	14-TSSOP	PIC16F616-H/ST-ND◆ ***NEW!***	1.74	1.36	1.25
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F616-I/ML-ND◆	1.32	1.04	.95
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F616-I/P-ND◆	1.38	1.09	1.00
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F616-I/ST-ND◆	1.36	1.06	.97
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F616-I/SL-ND◆	1.20	.94	.87
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F628A-I/ML-ND◆	3.10	2.07	2.04
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-DIP	PIC16F628A-I/P-ND◆	2.68	1.73	1.67
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-SOIC	PIC16F628A-I/SO-ND◆	2.72	1.78	1.72
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	20-SSOP	PIC16F628A-I/SS-ND◆	2.96	1.92	1.85
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF628A-I/ML-ND◆	3.24	2.17	2.14
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF628A-I/P-ND◆	2.82	1.83	1.77
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF628A-I/SO-ND◆	2.86	1.86	1.80
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF628A-I/SS-ND◆	3.08	2.00	1.93
	128	256	11	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F636-I/ML-ND◆	1.86	1.24	1.21
	128	256	11	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F636-I/P-ND◆	1.86	1.24	1.21
	128	256	11	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F636-I/SL-ND◆	1.68	1.12	1.09
	128	256	11	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F636-I/ST-ND◆	1.92	1.28	1.25
	128	256	11	1/1	—	—	—	—	—	2	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F639-I/SS-ND◆	3.56	2.52	2.49
	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-QFN	PIC16F677-I/ML-ND◆	1.76	1.41	1.38
	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-DIP	PIC16F677-I/P-ND◆	1.60	1.45	1.42
	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SOIC	PIC16F677-I/SO-ND◆	1.72	1.41	1.38
	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SOIC	PIC16F677-I/SS-ND◆	1.60	1.20	1.17

◆ ***RoHS Compliant*** ‡ Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: -40°F ~ 302°F (-40°C ~ 150°C)

(Continued)

General Purpose 8-bit PIC ***Flash*** Microcontrollers

PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper- ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
2K x 14	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	16-QFN	PIC16F684-I/ML-ND◆	1.96	1.32	1.28
	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	14-DIP	PIC16F684-I/P-ND◆	1.96	1.32	1.28
	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	14-SOIC	PIC16F684-I/SL-ND◆	1.78	1.19	1.16
	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	14-TSSOP	PIC16F684-I/ST-ND◆	2.04	1.36	1.32
	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F687-I/ML-ND◆	2.26	1.70	1.55
	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-DIP	PIC16F687-I/P-ND◆	2.06	1.55	1.51
	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SOIC	PIC16F687-I/SO-ND◆	2.26	1.70	1.55
	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F687-I/SS-ND◆	1.94	1.45	1.33
	128	—	13	2/1	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F716-I/P-ND◆	1.54	1.01	.98
	128	—	13	2/1	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16F716-I/SO-ND◆	1.40	.92	.90
	128	—	13	2/1	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F716-I/SS-ND◆	2.24	1.65	1.61
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F72-I/SP-ND◆	3.00	2.21	2.16
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F72-I/SO-ND◆	3.00	2.21	2.16
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F72-I/SS-ND◆	3.14	2.31	2.25
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F72-I/ML-ND◆	3.00	2.21	2.16
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF72-I/ML-ND◆	3.18	2.33	2.27
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF72-I/SO-ND◆	3.18	2.33	2.27
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF72-I/SP-ND◆	3.18	2.33	2.27
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-QFN	PIC16F722-E/ML-ND◆	2.20	1.73	1.59
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16F722-I/ML-ND◆	2.04	1.60	1.47
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SOIC	PIC16F722-E/SO-ND◆	1.88	1.48	1.36
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16F722-I/SO-ND◆	1.72	1.35	1.24
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-DIP .3"	PIC16F722-E/SP-ND◆	2.12	1.68	1.54
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP .3"	PIC16F722-I/SP-ND◆	1.96	1.54	1.41
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SSOP	PIC16F722-E/SS-ND◆	1.84	1.45	1.33
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16F722-I/SS-ND◆	1.66	1.31	1.20
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-QFN	PIC16LF722-E/ML-ND◆	2.20	1.73	1.59
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SOIC	PIC16LF722-E/SO-ND◆	1.90	1.48	1.36
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-DIP	PIC16LF722-E/SP-ND◆	2.14	1.68	1.54
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SSOP	PIC16LF722-E/SS-ND◆	1.84	1.45	1.33
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16LF722-I/ML-ND◆	2.04	1.60	1.47
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16LF722-I/SO-ND◆	1.72	1.35	1.24
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP	PIC16LF722-I/SP-ND◆	1.96	1.54	1.41
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16LF722-I/SS-ND◆	1.66	1.31	1.20
	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F785-I/ML-ND◆	2.36	1.79	1.64
	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-DIP	PIC16F785-I/P-ND◆	2.42	1.83	1.68
	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SOIC	PIC16F785-I/SO-ND◆	2.36	1.79	1.64
	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F785-I/SS-ND◆	2.04	1.54	1.41
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F819-I/ML-ND◆	3.84	2.49	2.40
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	18-DIP	PIC16F819-I/P-ND◆	3.22	2.10	2.03
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	18-SOIC	PIC16F819-I/SO-ND◆	3.30	2.13	2.06
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F819-I/SS-ND◆	3.52	2.30	2.22
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF819-I/ML-ND◆	3.84	2.49	2.40
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF819-I/P-ND◆	3.38	2.20	2.12
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF819-I/SO-ND◆	3.46	2.24	2.16
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF819-I/SS-ND◆	3.72	2.41	2.33
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F870-I/SO-ND◆	4.04	2.97	2.89
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F870-I/SP-ND◆	4.04	2.97	2.89
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F870-I/SS-ND◆	4.16	3.07	2.99
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF870-I/SO-ND◆	4.26	3.13	3.05
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF870-I/SP-ND◆	4.26	3.13	3.05
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF870-I/SS-ND◆	4.36	3.21	3.13
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F871-I/L-ND◆	5.36	4.45	4.28
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F871-I/P-ND◆	4.78	3.19	3.14
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF871-I/L-ND◆	5.64	4.68	4.51
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF871-I/P-ND◆	5.02	3.35	3.29
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF871-I/PT-ND◆	6.76	4.51	4.44
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F872-I/SO-ND◆	4.04	2.97	2.89
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F872-I/SP-ND◆	4.04	2.97	2.89
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F872-I/SS-ND◆	4.16	3.07	2.99
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF872-I/SO-ND◆	4.26	3.13	3.05
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF872-I/SP-ND◆	4.26	3.13	3.05
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF872-I/SS-ND◆	4.36	3.21	3.13
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F882-I/ML-ND◆	2.56	1.89	1.73
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	28-DIP	PIC16F882-I/SP-ND◆	2.48	1.83	1.68
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16F882-I/SS-ND◆	2.10	1.54	1.41
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ext.	28-SOIC	PIC16F882-E/SO-ND◆	2.48	1.83	1.68
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	11-ch. 10-bit	2	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16F882-I/SO-ND◆	2.24	1.64	1.50
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	User Defined	Ind.	14-DIP	PIC16HV616-I/P-ND◆	1.46	1.15	1.05
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	User Defined	Ind.	14-SOIC	PIC16HV616-I/SL-ND◆	1.28	1.00	.92
4K x 14	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F648A-I/ML-ND◆	3.48	2.26	2.18
	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-DIP	PIC16F648A-I/P-ND◆	3.04	1.97	1.90
	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	18-SOIC	PIC16F648A-I/SO-ND◆	3.10	2.02	1.95
	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	20-SSOP	PIC16F648A-I/SS-ND◆	3.34	2.17	2.10
	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F685-I/ML-ND◆	2.38	1.77	1.63
	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-DIP	PIC16F685-I/P-ND◆	2.30	1.81	1.66
	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SOIC	PIC16F685-I/SO-ND◆	2.38	1.77	1.63
	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F685-I/SS-ND◆	2.06	1.52	1.40
	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F688-I/ML-ND◆	2.08	1.39	1.36
	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F688-I/P-ND◆	2.08	1.39	1.36
	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F688-I/SL-ND◆	1.88	1.26	1.23
	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-TSSOP	PIC16F688-I/ST-ND◆	2.14	1.43	1.40
	256	256	12	1/1	1 (AUSART), 1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-SOIC	PIC16F688T-I/SLTR-ND◆‡	3224.00/2,600		
	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F689-I/ML-ND◆	2.38	1.77	1.63
	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-DIP	PIC16F689-I/P-ND◆	2.30	1.81	1.66
	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SOIC	PIC16F689-I/SO-ND◆	2.38	1.77	1.63
	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F689-I/SS-ND◆	2.06	1.52	1.40
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ext.	20-QFN	PIC16F690-E/ML-ND◆	2.74	2.04	1.87
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F690-I/ML-ND◆	2.50	1.87	1.71
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-DIP	PIC16F690-I/P-ND◆	2.44	1.91	1.75
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SOIC	PIC16F690-I/SO-ND◆	2.50	1.87	1.71
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-SSOP	PIC16F690-I/SS-ND ◆	2.18	1.62	1.48
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-QFN	PIC16F723-E/ML-ND◆	2.48	1.95	1.78
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16F723-I/ML-ND◆	2.28	1.79	1.64
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SOIC	PIC16F723-E/SO-ND◆	2.16	1.70	1.55
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16F723-I/SO-ND◆	1.96	1.54	1.41
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-DIP	PIC16F723-E/SP-ND◆	2.40	1.89	1.73
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP	PIC16F723-I/SP-ND◆	2.20	1.73	1.59
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SSOP	PIC16F723-E/SS-ND◆	2.10	1.66	1.52
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16F723-I/SS-ND◆	1.90	1.50	1.38
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-QFN	PIC16LF723-E/ML-ND◆	2.48	1.95	1.78
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SOIC	PIC16LF723-E/SO-ND◆	2.16	1.70	1.55

◆ ***RoHS Compliant*** ‡ Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: -40°F ~ 302°F (-40°C ~ 150°C) *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

General Purpose 8-bit PIC ***Flash*** Microcontrollers

PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper-ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
4K x 14	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-DIP	PIC16LF723-E/SP-ND◆	2.40	1.89	1.73
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SSOP	PIC16LF723-E/SS-ND◆	2.12	1.66	1.52
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16LF723-I/ML-ND◆	2.28	1.79	1.64
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16LF723-I/SO-ND◆	1.96	1.54	1.41
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP	PIC16LF723-I/SP-ND◆	2.20	1.73	1.59
	192	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16LF723-I/SS-ND◆	1.92	1.50	1.38
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	44-QFN	PIC16F724-E/ML-ND◆	3.02	2.37	2.17
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-QFN	PIC16F724-I/ML-ND◆	2.76	2.18	2.00
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	40-DIP	PIC16F724-E/P-ND◆	2.82	2.22	2.03
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	40-DIP	PIC16F724-I/P-ND◆	2.58	2.02	1.86
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	44-TQFP	PIC16F724-E/PT-ND◆	2.70	2.12	1.94
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-TQFP	PIC16F724-I/PT-ND◆	2.44	1.93	1.77
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	44-QFN	PIC16LF724-E/ML-ND◆	3.14	2.06	2.01
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	40-DIP	PIC16LF724-E/P-ND◆	2.94	1.93	1.89
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	44-TQFP	PIC16LF724-E/PT-ND◆	2.82	1.85	1.80
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-QFN	PIC16LF724-I/ML-ND◆	2.88	1.89	1.85
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	40-DIP	PIC16LF724-I/P-ND◆	2.68	1.76	1.72
	192	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-TQFP	PIC16LF724-I/PT-ND◆	2.56	1.68	1.64
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F73-I/ML-ND◆	4.68	3.45	3.36
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F73-I/SO-ND◆	4.68	3.45	3.36
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F73-I/SP-ND◆	4.68	3.45	3.36
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F73-I/SS-ND◆	4.84	3.55	3.46
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF73-I/ML-ND◆	4.92	3.63	3.54
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF73-I/SO-ND◆	4.92	3.63	3.54
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF73-I/SP-ND◆	4.92	3.63	3.54
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF73-I/SS-ND◆	5.06	3.72	3.63
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F737-I/ML-ND◆	5.74	3.83	3.77
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F737-I/SO-ND◆	5.30	3.54	3.48
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F737-I/SP-ND◆	5.20	3.47	3.41
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F737-I/SS-ND◆	5.46	3.64	3.58
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF737-I/ML-ND◆	6.02	4.01	3.94
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF737-I/SO-ND◆	5.82	3.89	3.82
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF737-I/SP-ND	5.72	3.82	3.75
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF737-I/SS-ND◆	5.90	3.93	3.87
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F74-I/L-ND◆	6.38	4.83	4.75
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F74-I/ML-ND	7.10	5.23	5.10
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F74-I/P-ND◆	5.70	4.19	4.08
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F74-I/PT-ND◆	6.84	5.02	4.89
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF74-I/L-ND◆	6.70	5.08	4.99
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF74-I/ML-ND	7.44	5.47	5.33
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF74-I/PT-ND◆	7.20	5.28	5.14
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-QFN	PIC16F747-I/ML-ND◆	6.40	4.27	4.20
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F747-I/P-ND◆	5.98	3.99	3.92
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F747-I/PT-ND◆	6.08	4.06	3.99
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF747-I/P-ND	6.56	4.38	4.31
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF747-I/PT-ND◆	6.70	4.47	4.40
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F87-I/ML-ND◆	4.20	2.73	2.63
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	3.0 ~ 5.5	Ind.	18-DIP	PIC16F87-I/P-ND◆	3.72	2.43	2.35
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	3.0 ~ 5.5	Ind.	18-SOIC	PIC16F87-I/SO-ND◆	3.84	2.49	2.40
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	3.0 ~ 5.5	Ind.	20-SSOP	PIC16F87-I/SS-ND◆	4.10	2.67	2.58
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF87-I/ML-ND◆	4.38	2.86	2.76
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF87-I/P-ND◆	3.92	2.56	2.47
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF87-I/SO-ND◆	4.00	2.60	2.51
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF87-I/SS-ND◆	4.34	2.81	2.71
	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F873A-I/ML-ND◆	6.08	4.48	4.36
	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F873A-I/SO-ND◆	5.72	4.21	4.10
	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F873A-I/SP-ND◆	5.72	4.21	4.10
	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F873A-I/SS-ND◆	5.84	4.30	4.19
	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF873A-I/ML-ND◆	6.38	4.69	4.57
	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF873A-I/SO-ND◆	6.02	4.41	4.30
	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC16LF873A-I/SP-ND◆	6.02	4.41	4.30
	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF873A-I/SS-ND◆	6.32	4.64	4.52
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F874A-I/L-ND◆	7.00	5.31	5.22
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F874A-I/ML-ND◆	7.20	5.28	5.14
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F874A-I/P-ND◆	6.24	4.59	4.47
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F874A-I/PT-ND◆	7.20	5.28	5.14
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF874A-I/L-ND◆	7.36	5.57	5.48
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF874A-I/P-ND◆	6.56	4.83	4.71
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF874A-I/PT-ND◆	7.56	5.55	5.41
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F88-I/ML-ND◆	4.46	3.27	3.19
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	3.0 ~ 5.5	Ind.	18-DIP	PIC16F88-I/P-ND◆	4.00	2.60	2.51
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	3.0 ~ 5.5	Ind.	18-SOIC	PIC16F88-I/SO-ND◆	4.08	2.66	2.57
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	3.0 ~ 5.5	Ind.	20-SSOP	PIC16F88-I/SS-ND◆	4.38	2.86	2.76
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF88-I/ML-ND◆	4.68	3.43	3.34
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16LF88-I/P-ND◆	4.20	2.73	2.63
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	18-SOIC	PIC16LF88-I/SO-ND◆	4.26	2.78	2.69
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16LF88-I/SS-ND◆	4.60	3.00	2.89
	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F883-I/ML-ND◆	2.60	2.04	1.98
	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16F883-I/SO-ND◆	2.18	1.74	1.69
	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-DIP	PIC16F883-I/SP-ND◆	2.42	1.90	1.85
	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16F883-I/SS-ND◆	2.12	1.70	1.66
	256	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16F884-I/ML-ND◆	2.82	2.20	2.14
	256	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~5.5	Ind.	40-DIP	PIC16F884-I/P-ND◆	2.56	2.01	1.96
	256	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16F884-I/PT-ND◆	2.58	2.03	1.98
8K x 14	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-QFN	PIC16F726-E/ML-ND◆	2.74	2.16	1.98
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16F726-I/ML-ND◆	2.52	1.99	1.82
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SOIC	PIC16F726-E/SO-ND◆	2.42	1.91	1.75
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16F726-I/SO-ND◆	2.20	1.73	1.59
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-DIP	PIC16F726-E/SP-ND◆	2.66	2.10	1.93
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP	PIC16F726-I/SP-ND◆	2.44	1.93	1.77
	368	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	28-SSOP	PIC16F726-E/SS-ND◆	2.38	1.87	1.71
	128	—	25	2/1	1 (AUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16F726-I/SS-ND◆	2.16	1.70	1.55
	368	—	25	1/2	1 (AUSART)	1	1	2	11-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	28-QFN	PIC16LF726-I/ML-ND◆	2.52	1.99	1.82
	368	—	25	1/2	1 (AUSART)	1	1	2	11-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	28-SOIC	PIC16LF726-I/SO-ND◆	2.20	1.73	1.59
	368	—	25	1/2	1 (AUSART)	1	1	2	11-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	28-DIP	PIC16LF726-I/SP-ND◆	2.46	1.93	1.77
	368	—	25	1/2	1 (AUSART)	1	1	2	11-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	28-SSOP	PIC16LF726-I/SS-ND◆	2.16	1.70	1.55
	368	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	44-QFN	PIC16F727-E/ML-ND◆	3.28	2.58	2.37
	368	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-QFN	PIC16F727-I/ML-ND◆	3.02	2.37	2.17
	368	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	40-DIP	PIC16F727-E/P-ND◆	3.08	2.43	2.23
	128	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	40-DIP	PIC16F727-I/P-ND◆	2.82	2.22	2.03
	368	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ext.	40-TQFP	PIC16F727-E/PT-ND◆	2.96	2.33	2.14
	128	—	36	2/1	1 (AUSART)	1	1	2	14-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	44-TQFP	PIC16F727-I/PT-ND◆	2.70	2.12	1.94

◆ ***RoHS Compliant*** ‡ Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: -40°F ~ 302°F (-40°C ~ 150°C) *(Continued)*

General Purpose 8-bit PIC *Flash* Microcontrollers

PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper-ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
8K x 14	368	—	36	1/2	1 (AUSART)	1	1	2	14-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	44-QFN	PIC16LF727-I/ML-ND◆	3.02	2.37	2.17
	368	—	36	1/2	1 (AUSART)	1	1	2	14-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	40-DIP	PIC16LF727-I/P-ND◆	2.82	2.22	2.03
	368	—	36	1/2	1 (AUSART)	1	1	2	14-ch. 8-bit	—	16MHz	20	1.8 ~ 5.5	Ind.	44-TQFP	PIC16LF727-I/PT-ND◆	2.70	2.12	1.94
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F76-I/ML-ND◆	5.90	4.33	4.22
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F76-I/SO-ND◆	5.90	4.33	4.22
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3”	PIC16F76-I/SP-ND◆	5.90	4.33	4.22
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F76-I/SS-ND◆	6.04	4.43	4.32
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF76-I/ML-ND	6.18	4.54	4.42
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF76-I/SO-ND◆	6.18	4.54	4.42
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC16LF76-I/SP-ND◆	6.18	4.54	4.42
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF76-I/SS-ND◆	6.34	4.65	4.53
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F767-I/ML-ND◆	6.66	4.44	4.37
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F767-I/SO-ND◆	6.16	4.11	4.04
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-DIP .3”	PIC16F767-I/SP-ND◆	6.04	4.03	3.96
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F767-I/SS-ND◆	6.36	4.24	4.17
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF767-I/ML-ND◆	7.26	4.85	4.77
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	4MHz	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF767-I/SO-ND◆	6.70	4.47	4.40
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	4MHz	20	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC16LF767-I/SP-ND◆	6.66	4.43	4.35
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	4MHz	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF767-I/SS-ND◆	6.92	4.62	4.54
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F77-I/L-ND◆	7.30	5.52	5.43
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F77-I/ML-ND◆	8.10	5.95	5.80
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F77-I/P-ND◆	6.52	4.78	4.66
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF77-I/L-ND	7.68	5.80	5.70
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF77-I/ML-ND	8.46	6.23	6.07
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF77-I/P-ND◆	6.84	5.02	4.89
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF77-I/PT-ND◆	8.22	6.03	5.88
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F777-I/ML-ND	7.08	4.73	4.65
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F777-I/P-ND◆	6.66	4.43	4.35
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F777-I/PT-ND◆	6.76	4.51	4.44
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF777-I/ML-ND	7.82	5.21	5.12
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF777-I/P-ND◆	7.30	4.86	4.78
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF777-I/PT-ND◆	7.44	4.97	4.88
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F876A-I/ML-ND◆	6.16	4.53	4.41
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F876A-I/SO-ND◆	6.16	4.53	4.41
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-DIP .3”	PIC16F876A-I/SP-ND◆	6.16	4.53	4.41
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F876A-I/SS-ND◆	6.28	4.62	4.50
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF876A-I/ML-ND◆	6.46	4.75	4.63
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF876A-I/SO-ND◆	6.46	4.75	4.63
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC16LF876A-I/SP-ND◆	6.46	4.75	4.63
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16LF876A-I/SS-ND◆	6.58	4.85	4.72
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F877A-I/L-ND◆	7.52	5.70	5.61
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F877A-I/ML-ND◆	7.74	5.70	5.55
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F877A-I/P-ND◆	6.72	4.94	4.81
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F877A-I/PT-ND◆	7.74	5.70	5.55
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF877A-I/L-ND◆	7.92	6.00	5.90
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF877A-I/ML-ND◆	8.12	5.97	5.81
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF877A-I/P-ND◆	7.08	5.20	5.06
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF877A-I/PT-ND◆	8.12	5.97	5.81
	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F886-I/ML-ND◆	2.78	2.19	2.13
	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16F886-I/SO-ND◆	2.38	1.88	1.83
	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC16F886-I/SP-ND◆	2.60	2.05	2.00
	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-SSOP	PIC16F886-I/SS-ND◆	2.32	1.85	1.80
	368	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16F887-I/ML-ND◆	3.04	2.38	2.32
	368	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16F887-I/P-ND◆	2.80	2.20	2.14
	368	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16F887-I/PT-ND◆	2.84	2.21	2.15

◆ ***RoHS Compliant*** ‡ Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: -40°F ~ 302°F (-40°C ~ 150°C)

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper-ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
2K x 16	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1220-I/ML-ND◆	4.04	2.65	2.58
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	18-DIP	PIC18F1220-I/P-ND◆	3.72	2.44	2.38
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	18-SOIC	PIC18F1220-I/SO-ND◆	3.58	2.35	2.30
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	20-SSOP	PIC18F1220-I/SS-ND◆	3.58	2.35	2.30
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.5 ~ 5.5	Ind.	28-QFN	PIC18LF1220-I/ML-ND◆	4.22	2.76	2.70
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.5 ~ 5.5	Ind.	18-DIP	PIC18LF1220-I/P-ND◆	3.90	2.55	2.49
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.5 ~ 5.5	Ind.	18-SOIC	PIC18LF1220-I/SO-ND◆	3.76	2.47	2.41
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.5 ~ 5.5	Ind.	20-SSOP	PIC18LF1220-I/SS-ND◆	3.76	2.47	2.41
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1230-I/ML-ND◆	4.16	3.14	2.88
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	18-DIP	PIC18F1230-I/P-ND◆	3.84	2.89	2.65
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	18-SOIC	PIC18F1230-I/SO-ND◆	3.72	2.79	2.56
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	20-SSOP	PIC18F1230-I/SS-ND◆	3.72	2.79	2.56
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF1230-I/ML-ND◆	4.34	3.28	3.00
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz,32kHz	40	2.0 ~ 5.5	Ind.	18-DIP	PIC18LF1230-I/P-ND◆	4.02	3.03	2.77
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	18-SOIC	PIC18LF1230-I/SO-ND◆	3.90	2.93	2.69
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	20-SSOP	PIC18LF1230-I/SS-ND◆	3.88	2.79	2.56
	256	128	16	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 31kHz	40	2.0 ~ 5.5	Ext.	28-QFN	PIC18F1230-E/ML-ND◆	4.54	3.41	3.13
	256	128	16	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 31kHz	40	2.0 ~ 5.5	Ext.	18-DIP	PIC18F1230-E/P-ND◆	4.22	3.18	2.92
	256	128	16	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 31kHz	40	2.0 ~ 5.5	Ext.	18-SOIC	PIC18F1230-E/SO-ND◆	4.08	3.08	2.83
	256	128	16	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 31kHz	40	2.0 ~ 5.5	Ext.	20-SSOP	PIC18F1230-E/SS-ND◆	4.08	3.08	2.83
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2220-I/SO-ND◆	6.40	4.70	4.58
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2220-I/SP-ND◆	6.40	4.70	4.58
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2220-I/SO-ND◆	6.70	4.93	4.80
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2220-I/SP-ND◆	6.70	4.93	4.80
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2221-I/ML-ND◆	3.90	2.95	2.70
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2221-I/SO-ND◆	3.58	2.70	2.47
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2221-I/SP-ND◆	3.84	2.89	2.65
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SSOP	PIC18F2221-I/SS-ND◆	3.54	2.66	2.44
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2221-I/ML-ND◆	4.08	3.08	2.83
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2221-I/SO-ND◆	3.76	2.83	2.60
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2221-I/SP-ND◆	4.02	3.03	2.77
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SSOP	PIC18LF2221-I/SS-ND◆	3.72	2.79	2.56
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4220-I/ML-ND	8.40	6.18	6.02
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4220-I/P-ND◆	7.06	5.18	5.05
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4220-I/PT-ND◆	8.14	5.99	5.83
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4220-I/ML-ND◆	8.84	6.48	6.31
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4220-I/P-ND◆	7.40	5.44	5.30
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4220-I/PT-ND◆	8.56	6.29	6.13
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4221-I/ML-ND◆	4.28	3.24	2.97

◆ ***RoHS Compliant*** ‡ Tape and Reel ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose 8-bit PIC ***Flash*** Microcontrollers

PIC18F Devices *(Cont.)*

Memory Size																	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper-ating Temp.	Package	Digi-Key Part No.	1	10	25
2K x 16	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4221-I/P-ND◆	4.10	3.08	2.83
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4221-I/PT-ND◆	3.96	2.99	2.74
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4221-I/ML-ND◆	4.48	3.37	3.09
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4221-I/P-ND◆	4.30	3.24	2.97
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4221-I/PT-ND◆	4.16	3.14	2.88
4K x 16	256	256	17	1/3	1 (EUSART)	1 MI^{2}C	1	1	12-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	20-QFN	PIC18F13K22-I/ML-ND◆ ***NEW!***	2.54	2.00	1.83
	256	256	17	1/3	1 (EUSART)	1 MI^{2}C	1	1	12-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	20-DIP	PIC18F13K22-I/P-ND◆ ***NEW!***	2.76	2.17	1.99
	256	256	17	1/3	1 (EUSART)	1 MI^{2}C	1	1	12-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	20-SOIC	PIC18F13K22-I/SO-ND◆ ***NEW!***	2.58	2.02	1.86
	256	256	17	1/3	1 (EUSART)	1 MI^{2}C	1	1	12-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	20-SSOP	PIC18F13K22-I/SS-ND◆ ***NEW!***	2.34	1.83	1.68
	512	256	15	1/3	1 (EUSART)	—	1	2	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-DIP	PIC18F13K50-I/P-ND◆	2.80	2.20	2.01
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	—	1	2	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SSOP	PIC18F13K50-I/SS-ND◆	2.42	1.91	1.75
	512	256	15	1/3	1 (EUSART)	—	1	2	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-DIP	PIC18LF13K50-I/P-ND◆	2.92	1.92	1.87
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1320-I/ML-ND◆	4.42	2.90	2.83
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	18-DIP	PIC18F1320-I/P-ND◆	4.10	2.69	2.62
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	18-SOIC	PIC18F1320-I/SO-ND◆	3.96	2.60	2.54
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	20-SSOP	PIC18F1320-I/SS-ND◆	3.96	2.60	2.54
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF1320-I/ML-ND◆	4.62	3.03	2.96
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	18-DIP	PIC18LF1320-I/P-ND◆	4.30	2.82	2.75
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	18-SOIC	PIC18LF1320-I/SO-ND◆	4.16	2.73	2.67
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	20-SSOP	PIC18LF1320-I/SS-ND◆	4.16	2.73	2.67
	256	128	13	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1330-I/ML-ND◆	4.54	3.43	3.14
	256	128	13	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	18-DIP	PIC18F1330-I/P-ND◆	4.22	3.18	2.92
	256	128	13	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	18-SOIC	PIC18F1330-I/SO-ND◆	4.10	3.08	2.83
	256	128	13	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	20-SSOP	PIC18F1330-I/SS-ND◆	4.10	3.08	2.83
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF1330-I/ML-ND◆	4.74	3.58	3.29
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	18-DIP	PIC18LF1330-I/P-ND◆	4.42	3.33	3.06
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	18-SOIC	PIC18LF1330-I/SO-ND◆	4.30	3.24	2.97
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	20-SSOP	PIC18LF1330-I/SS-ND◆	4.40	3.45	3.16
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2320-I/SO-ND◆	6.92	5.09	4.96
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2320-I/SP-ND◆	6.92	5.09	4.96
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2320-I/SO-ND◆	7.26	5.34	5.20
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2320-I/SP-ND◆	7.26	5.34	5.20
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2321-I/ML-ND◆	4.14	3.12	2.86
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2321-I/SO-ND◆	3.82	2.87	2.63
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2321-I/SP-ND◆	4.08	3.06	2.81
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SSOP	PIC18F2321-I/SS-ND◆	3.76	2.83	2.60
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2321-I/ML-ND◆	4.32	3.26	2.99
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2321-I/SO-ND◆	4.00	3.01	2.76
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2321-I/SP-ND◆	4.26	3.20	2.93
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SSOP	PIC18LF2321-I/SS-ND◆	3.96	2.97	2.72
	768	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	6	5-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18F2331-I/MM-ND◆	6.02	3.95	3.85
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4320-I/ML-ND◆	8.94	6.58	6.41
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4320-I/P-ND◆	7.60	5.59	5.44
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4320-I/PT-ND◆	8.66	6.37	6.20
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4320-I/ML-ND◆	9.40	6.90	6.72
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4320-I/P-ND◆	7.96	5.86	5.71
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4320-I/PT-ND◆	9.12	6.71	6.53
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4321-I/ML-ND◆	4.52	3.41	3.13
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4321-I/P-ND◆	4.32	3.26	2.99
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4321-I/PT-ND◆	4.20	3.16	2.90
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4321-I/ML-ND◆	4.72	3.57	3.27
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4321-I/P-ND◆	4.54	3.41	3.13
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4321-I/PT-ND◆	4.40	3.32	3.04
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6310-I/PT-ND◆	4.60	3.02	2.95
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6310-I/PT-ND◆	4.84	3.18	3.10
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6393-I/PT-ND◆	5.38	4.05	3.71
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6393-I/PT-ND◆	3.81	3.67	3.60
	1024	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	64-TQFP	PIC18F63J11-I/PT-ND◆	3.24	2.54	2.33
	1024	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 3.6	Ind.	64-TQFP	PIC18F63J90-I/PT-ND◆	3.52	2.76	2.53
	768	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8310-I/PT-ND◆	5.50	3.61	3.53
	768	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8310-I/PT-ND	5.78	3.79	3.70
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8393-I/PT-ND◆	6.28	4.72	4.33
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8393-I/PT-ND◆	4.44	4.28	4.20
	1024	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	80-TQFP	PIC18F83J11-I/PT-ND◆	3.70	2.91	2.67
	1024	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	80-TQFP	PIC18F83J90-I/PT-ND◆	3.98	3.12	2.86
8K x 16	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2410-I/ML-ND◆	4.92	3.23	3.16
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2410-I/SO-ND◆	4.60	3.02	2.95
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2410-I/SP-ND◆	4.86	3.19	3.12
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2410-I/ML-ND◆	5.16	3.39	3.30
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2410-I/SO-ND◆	4.84	3.18	3.10
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2410-I/SP-ND	5.10	3.34	3.26
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F24J10-I/ML-ND◆	2.30	1.81	1.66
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F24J10-I/SO-ND◆	2.16	1.70	1.55
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F24J10-I/SP-ND◆	2.40	1.89	1.73
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	28-SSOP	PIC18F24J10-I/SS-ND◆	2.12	1.66	1.52
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF24J10-I/ML-ND◆	2.42	1.90	1.74
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF24J10-I/SO-ND◆	2.26	1.78	1.63
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF24J10-I/SP-ND◆	2.52	1.97	1.81
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	28-SSOP	PIC18LF24J10-I/SS-ND◆	2.22	1.74	1.60
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2420-I/ML-ND◆	5.32	3.49	3.40
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2420-I/SO-ND◆	5.00	3.28	3.20
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2420-I/SP-ND◆	5.24	3.44	3.36
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2420-I/ML-ND◆	5.56	3.65	3.56
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2420-I/SO-ND◆	5.24	3.44	3.36
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2420-I/SP-ND◆	5.50	3.61	3.52
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2423-I/ML-ND◆	5.84	4.41	4.05
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2423-I/SO-ND◆	5.52	4.16	3.82
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2423-I/SP-ND◆	5.78	4.36	3.99
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2423-I/ML-ND◆	6.12	4.61	4.22
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2423-I/SO-ND◆	5.80	4.38	4.01
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2423-I/SP-ND◆	6.06	4.57	4.19
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4410-I/ML-ND◆	5.32	3.49	3.40
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4410-I/P-ND◆	5.12	3.36	3.28
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4410-I/PT-ND◆	5.00	3.28	3.20
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4410-I/P-ND◆	5.36	3.52	3.44
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4410-I/PT-ND◆	5.24	3.44	3.36
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F44J10-I/P-ND◆	2.78	2.18	2.00
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F44J10-I/ML-ND◆	2.68	2.10	1.93
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F44J10-I/PT-ND◆	2.52	1.99	1.82
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF44J10-I/ML-ND◆	2.80	2.20	2.02
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF44J10-I/P-ND◆	2.90	2.28	2.09
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF44J10-I/PT-ND◆	2.66	2.08	1.91
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	44-QFN	PIC18F44K20-E/ML-ND◆	3.12	2.45	2.24

◆ ***RoHS Compliant*** ‡ Tape and Reel ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

General Purpose 8-bit PIC ***Flash*** Microcontrollers

PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
8K x 16	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	1	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-QFN	PIC18F44K20-I/ML-ND◆	2.84	2.24	2.05
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	1	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	40-DIP	PIC18F44K20-E/P-ND◆	3.22	2.52	2.31
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	1	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	40-DIP	PIC18F44K20-I/P-ND◆	2.94	2.31	2.12
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	1	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	40-TQFP	PIC18F44K20-E/PT-ND◆	2.98	2.33	2.14
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	1	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-TQFP	PIC18F44K20-I/PT-ND◆	2.70	2.12	1.94
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4420-I/ML-ND◆	5.70	3.74	3.65
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4420-I/P-ND◆	5.50	3.61	3.53
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4420-I/PT-ND◆	5.38	3.53	3.44
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4420-I/ML-ND◆	5.96	3.91	3.82
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4420-I/P-ND◆	5.78	3.79	3.70
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4420-I/PT-ND◆	5.64	3.70	3.62
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4423-I/ML-ND◆	6.24	4.70	4.31
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4423-I/P-ND◆	6.04	4.55	4.17
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4423-I/PT-ND◆	5.92	4.45	4.08
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4423-I/ML-ND◆	6.52	4.91	4.51
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4423-I/P-ND◆	6.34	4.78	4.38
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4423-I/PT-ND◆	6.20	4.68	4.29
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6410-I/PT-ND◆	5.24	3.44	3.36
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6410-I/PT-ND◆	5.52	3.62	3.53
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	32	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6493-I/PT-ND◆	6.02	4.53	4.15
	1024	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F64J11-I/PT-ND◆	3.36	2.64	2.42
	1024	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F64J90-I/PT-ND◆	3.60	2.83	2.60
	768	—	70	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8410-I/PT-ND◆	6.14	4.03	3.94
	768	—	70	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8410-I/PT-ND◆	6.46	4.23	4.13
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	32	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8493-I/PT-ND◆	6.92	5.20	4.77
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	32	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8493-I/PT-ND◆	7.26	5.09	4.65
	1024	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F84J11-I/PT-ND◆	3.82	3.01	2.76
	1024	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F84J90-I/PT-ND◆	4.08	3.20	2.93
12K x 16	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2458-I/SO-ND◆	6.56	4.93	4.52
	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2458-I/SP-ND◆	6.80	5.13	4.70
	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2458-I/SO-ND◆	6.88	5.18	4.75
	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2458-I/SP-ND◆	7.14	5.38	4.93
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4458-I/ML-ND◆	7.26	5.47	5.02
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4458-I/P-ND◆	7.06	5.32	4.88
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4458-I/PT-ND◆	6.94	5.22	4.79
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4458-I/ML-ND◆	7.60	5.72	5.25
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4458-I/P-ND◆	7.42	5.59	5.12
16K x 16	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2510-I/ML-ND◆	5.74	3.77	3.68
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2510-I/SO-ND◆	5.42	3.56	3.48
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2510-I/SP-ND◆	5.68	3.73	3.64
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2510-I/ML-ND◆	6.02	3.95	3.86
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2510-I/SO-ND◆	5.70	3.74	3.65
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2510-I/SP-ND◆	5.96	3.91	3.81
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-QFN	PIC18F25J10-I/ML-ND◆	2.44	1.91	1.75
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-SOIC	PIC18F25J10-I/SO-ND◆	2.28	1.79	1.64
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-DIP .3”	PIC18F25J10-I/SP-ND◆	2.52	1.99	1.82
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-SSOP	PIC18F25J10-I/SS-ND◆	2.24	1.75	1.61
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.25 ~ 3.6	Ind.	28-DIP .3”	PIC18LF25J10-I/SP-ND◆	2.64	2.07	1.90
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.25 ~ 3.6	Ind.	28-SOIC	PIC18LF25J10-I/SO-ND◆	2.40	1.88	1.73
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2520-I/ML-ND◆	6.14	4.02	3.93
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2520-I/SO-ND◆	5.82	3.81	3.72
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2520-I/SP-ND◆	6.06	3.98	3.89
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2520-I/ML-ND◆	6.42	4.21	4.11
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2520-I/SO-ND◆	6.10	4.00	3.91
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2520-I/SP-ND◆	6.36	4.17	4.07
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2523-I/ML-ND◆	6.64	5.01	4.59
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2523-I/SO-ND◆	6.32	4.76	4.36
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3”	PIC18F2523-I/SP-ND◆	6.58	4.95	4.54
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2523-I/ML-ND◆	6.96	5.24	4.81
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2523-I/SO-ND◆	6.64	4.99	4.58
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2523-I/SP-ND◆	6.90	5.18	4.75
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18F2553-I/SO-ND◆	7.52	5.67	5.19
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4510-I/ML-ND◆	6.14	4.02	3.93
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4510-I/P-ND◆	5.94	3.90	3.80
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4510-I/PT-ND◆	5.82	3.81	3.72
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4510-I/P-ND◆	6.22	4.09	3.99
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4510-I/PT-ND◆	6.10	4.00	3.91
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F45J10-I/ML-ND◆	2.80	2.20	2.01
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F45J10-I/P-ND◆	2.90	2.27	2.08
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F45J10-I/PT-ND◆	2.66	2.08	1.91
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF45J10-I/ML-ND◆	2.94	2.30	2.11
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF45J10-I/P-ND◆	3.02	2.38	2.18
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF45J10-I/PT-ND◆	2.78	2.19	2.00
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4520-I/ML-ND◆	6.52	4.28	4.17
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4520-I/P-ND◆	6.32	4.15	4.05
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4520-I/PT-ND◆	6.20	4.07	3.97
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4520-I/ML-ND◆	6.82	4.48	4.37
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4520-I/P-ND◆	6.64	4.35	4.25
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4520-I/PT-ND◆	6.50	4.27	4.17
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4523-I/ML-ND◆	7.02	5.30	4.86
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4523-I/P-ND◆	6.84	5.15	4.72
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4523-I/PT-ND◆	6.70	5.05	4.63
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4523-I/ML-ND◆	7.36	5.55	5.09
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4523-I/P-ND◆	7.18	5.40	4.95
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4523-I/PT-ND◆	7.04	5.30	4.86
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J10-I/PT-ND◆	3.20	2.51	2.30
	2048	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J11-I/PT-ND◆	3.54	2.78	2.54
	3904	—	49	2/3	2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J50-I/PT-ND◆	4.08	3.20	2.93
	2048	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J90-I/PT-ND◆	3.80	2.99	2.74
	2048	1024	52	2/3	2 (AUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6520-I/PT-ND◆	9.38	6.89	6.71
	2048	1024	52	2/3	2 (AUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6520-I/PT-ND◆	9.82	7.22	7.03
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J10-I/PT-ND◆	3.60	2.83	2.60
	2048	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J11-I/PT-ND◆	4.00	3.14	2.88
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J50-I/PT-ND◆	4.54	3.57	3.27
	2048	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J90-I/PT-ND◆	4.28	3.35	3.07
	2048	1024	68	2/3	2 (AUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8520-I/PT-ND◆	9.84	7.24	7.05

◆ ***RoHS Compliant*** ‡ Tape and Reel ***Note:* Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose 8-bit PIC ***Flash*** Microcontrollers

PIC18F Devices *(Cont.)*

Memory Size				Timer/								Clock		Oper-			Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Speed (MHz)	VCC (V)	ating Temp.	Package	Digi-Key Part No.	1	10	25
16K x 16	2048	1024	68	2/3	2 (AUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8520-I/PT-ND◆	10.34	7.61	7.41
	2048	1024	68	2/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8520T-I/PTTR-ND◆‡	8412.01/1,200		
24K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2515-I/SO-ND◆	6.22	4.08	3.99
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2515-I/SP-ND◆	6.48	4.25	4.15
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2515-I/SO-ND◆	6.54	4.29	4.18
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2515-I/SP-ND◆	6.78	4.45	4.35
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2525-I/SO-ND◆	6.60	4.33	4.23
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2525-I/SP-ND◆	6.86	4.50	4.40
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2525-I/SO-ND◆	6.94	4.55	4.44
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2525-I/SP-ND◆	7.20	4.72	4.61
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4515-I/ML-ND◆	6.92	4.54	4.44
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4515-I/P-ND◆	6.74	4.42	4.31
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4515-I/PT-ND◆	6.60	4.33	4.23
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4515-I/P-ND◆	7.06	4.64	4.52
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4515-I/PT-ND◆	6.94	4.55	4.44
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4525-I/ML-ND◆	7.30	4.80	4.68
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4525-I/P-ND◆	7.12	4.67	4.56
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4525-I/PT-ND◆	6.98	4.59	4.48
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4525-I/ML-ND◆	7.66	5.03	4.91
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4525-I/P-ND◆	7.46	4.90	4.78
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4525-I/PT-ND◆	7.34	4.82	4.70
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	64-TQFP	PIC18F65J15-I/PT-ND◆	3.44	2.70	2.47
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6527-I/PT-ND◆	8.44	6.36	5.83
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6527-I/PT-ND◆	8.88	6.69	6.13
	3936	1024	54	2/3	2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8 MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6527T-I/PTTR-ND◆‡ ***NEW!***	6695.99/1,200		
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J15-I/PT-ND◆	3.86	3.03	2.77
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8527-I/PT-ND◆	9.22	6.94	6.36
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8527-I/PT-ND◆	9.68	7.29	6.68
32K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2610-I/SO-ND◆	7.04	4.62	4.51
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2610-I/SP-ND◆	7.30	4.79	4.67
	3936	1024	70	2/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	2	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8622T-I/PTTR-ND◆‡	7632.01/1,200		
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	16MHz, 8kHz	40	1.8 ~ 3.6	Ext.	44-TQFP	PIC18F46K20-E/PT-ND◆	3.52	2.76	2.53
48K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J15-I/PT-ND◆	3.86	3.03	2.77
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J16-I/PT-ND◆	4.08	3.37	2.93
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J55-I/PT-ND◆	4.76	3.74	3.43
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6627-I/PT-ND◆	11.00	7.22	7.05
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6627-I/PT-ND◆	11.56	7.59	7.40
	3936	1024	54	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6628-I/PT-ND◆	13.62	10.25	9.40
	3936	1024	54	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6628-I/PT-ND◆	12.98	9.77	8.96
	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J15-I/PT-ND◆	4.28	3.35	3.07
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J16-I/PT-ND◆	4.74	3.72	3.41
	3904	—	66	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J55-I/PT-ND◆	5.22	4.11	3.76
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8627-I/PT-ND◆	11.78	7.73	7.54
	3936	1024	70	2/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8627T-I/PTTR-ND◆‡	8880.00/1,200		
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8627-I/PT-ND◆	12.36	8.11	7.92
	3936	1024	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8628-I/PT-ND◆	14.48	10.91	10.00
	3936	1024	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8628-I/PT-ND◆	13.80	10.39	9.52
64K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2610-I/SP-ND◆	7.64	5.02	4.90
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2620-I/SO-ND◆	7.42	4.87	4.76
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2620-I/SP-ND◆	7.68	5.04	4.92
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2620-I/SO-ND◆	7.80	5.12	4.99
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2620-I/SP-ND◆	8.06	5.28	5.16
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4610-I/ML-ND	7.74	5.08	4.96
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4610-I/P-ND◆	7.56	4.96	4.84
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4610-I/PT-ND◆	7.42	4.87	4.76
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4610-I/ML-ND◆	8.12	5.33	5.20
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4610-I/P-ND◆	7.92	5.20	5.08
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4610-I/PT-ND◆	7.80	5.12	4.99
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4620-I/ML-ND◆	8.12	5.33	5.21
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4620-I/P-ND◆	7.94	5.21	5.08
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4620-I/PT-ND◆	7.80	5.12	5.00
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4620-I/ML-ND◆	8.52	5.59	5.46
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4620-I/P-ND◆	8.32	5.46	5.33
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4620-I/PT-ND◆	8.20	5.38	5.25
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6622-I/PT-ND◆	9.34	7.03	6.45
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6622-I/PT-ND◆	9.82	7.38	6.77
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J10-I/PT-ND◆	3.68	2.89	2.65
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J11-I/PT-ND◆	4.08	3.20	2.93
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J50-I/PT-ND◆	4.54	3.57	3.27
	3900	—	51	1/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J90-I/PT-ND◆	4.34	3.41	3.13
	3900	—	51	1/3	1 (EUSART, 1 (AUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J93-I/PT-ND◆ ***NEW!***	4.60	3.60	3.30
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6722-I/PT-ND◆	12.54	8.23	8.04
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6722-I/PT-ND◆	13.18	8.64	8.44
	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J10-I/PT-ND◆	4.06	3.18	2.92
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J11-I/PT-ND◆	4.50	3.53	3.23
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J50-I/PT-ND◆	4.96	3.89	3.57
	3900	—	51	1/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J90-I/PT-ND◆	4.76	3.74	3.43
	3936	1024	54	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6723-I/PT-ND◆	14.62	11.00	10.09
	3936	1024	54	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6723-I/PT-ND◆	15.34	11.56	10.60
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8622-I/PT-ND◆	10.12	7.61	6.98
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8622-I/PT-ND◆	10.62	8.00	7.33
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J10-I/PT-ND◆	4.08	3.20	2.93
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J11-I/PT-ND◆	4.54	3.57	3.27
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J50-I/PT-ND◆	5.00	3.93	3.60
	3900	—	67	1/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J90-I/PT-ND◆	4.78	3.76	3.45
	3900	—	67	1/3	1 (EUSART, 1 (AUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J93-I/PT-ND◆ ***NEW!***	5.06	3.97	3.64
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8722-I/PT-ND◆	13.32	8.74	8.53
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8722-I/PT-ND◆	13.98	9.17	8.95
	3936	1024	70	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	16-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8723-I/PT-ND◆	15.44	11.62	10.65
	3936	1024	70	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	16-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8723-I/PT-ND◆	16.20	12.20	11.18
	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J10-I/PT-ND◆	4.46	3.51	3.22
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J11-I/PT-ND◆	4.96	3.89	3.57
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J50-I/PT-ND◆	5.42	4.26	3.90
	3900	—	67	1/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J90-I/PT-ND◆	5.22	4.11	3.76
	3808	—	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	100-TQFP	PIC18F96J60-I/PT-ND◆	6.18	4.86	4.45
	3808	—	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F96J60-I/PF-ND◆	6.80	5.34	4.89
128K x 16	3900	—	51	1/3	1 (EUSART, 1 (AUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J93-I/PT-ND◆ ***NEW!***	5.00	3.93	3.60
	3900	—	67	1/3	1 (EUSART, 1 (AUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J93-I/PT-ND◆ ***NEW!***	5.48	4.30	3.94

◆ ***RoHS Compliant*** ‡ Tape and Reel ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

MICROCHIP

Application Specific *Flash* Microcontrollers

Ethernet PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	Ethernet	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	10	25
32K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F66J60-I/PT-ND	5.38	4.22	3.87
	3808	—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F86J60-I/PT-ND	5.82	4.57	4.19
48K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F66J65-I/PT-ND	5.60	4.39	4.03
	3808	—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F86J65-I/PT-ND	6.04	4.74	4.35
	3808	—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F96J65-I/PT-ND	6.40	5.03	4.61
	3808	—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F96J65-I/PF-ND	7.02	5.51	5.05
64K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F67J60-I/PT-ND	5.80	4.55	4.17
	3808	—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F87J60-I/PT-ND	6.24	4.90	4.49
	3808	—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F97J60-I/PF-ND	7.22	5.67	5.19
	3808	—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F97J60-I/PT-ND	6.60	5.18	4.75

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

Motor Control PIC12F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
2K x 14	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F683-I/MD-ND	2.26	1.87	1.82
	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F683-I/MF-ND	1.86	1.22	1.19
	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F683-I/P-ND	1.78	1.18	1.15
	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F683-I/SN-ND	1.66	1.09	1.07
	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-SOIC	PIC12F683T-I/SNTR-ND‡	3563.99/3,300		

‡ Tape and Reel

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
4K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2331-I/SO-ND◆	5.64	3.70	3.61
	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2331-I/SP-ND◆	5.88	3.86	3.77
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2331-I/MM-ND	6.30	4.13	4.03
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2331-I/SO-ND	5.92	3.88	3.79
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2331-I/SP-ND◆	6.16	4.05	3.95
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4331-I/ML-ND◆	6.64	4.36	4.26
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4331-I/P-ND◆	6.38	4.19	4.09
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4331-I/PT-ND◆	6.32	4.15	4.05
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4331-I/ML-ND	6.96	4.57	4.46
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4331-I/P-ND	6.70	4.40	4.29
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4331-I/PT-ND	6.64	4.36	4.25
8K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2431-I/SO-ND◆	5.88	3.86	3.77
	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2431-I/SP-ND◆	6.14	4.03	3.94
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2431-I/SO-ND◆	6.18	4.06	3.96
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2431-I/SP-ND	6.44	4.23	4.12
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4431-I/ML-ND◆	6.92	4.54	4.44
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4431-I/P-ND◆	6.66	4.38	4.27
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4431-I/PT-ND◆	6.60	4.33	4.23
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4431-I/ML-ND◆	7.26	4.76	4.65
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4431-I/P-ND◆	7.00	4.59	4.48
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4431-I/PT-ND◆	6.94	4.55	4.44

◆ ***RoHS Compliant***

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

CAN (Controller Area Network) PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	CAN	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	10	25
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2480-I/ML-ND	7.12	4.68	4.57
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2480-I/SO-ND	6.80	4.47	4.36
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2480-I/SP-ND	7.06	4.64	4.53
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2480-I/ML-ND	7.12	4.90	4.57
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2480-I/SO-ND	6.80	4.69	4.36
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2480-I/SP-ND	7.06	4.86	4.53
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4480-I/ML-ND	7.52	4.93	4.81
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4480-I/P-ND	7.32	4.80	4.69
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4480-I/PT-ND	7.20	4.72	4.61
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4480-I/ML-ND	7.88	5.17	5.04
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4480-I/P-ND	7.68	5.04	4.92
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4480-I/PT-ND	7.56	4.96	4.84
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	—	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2580-I/ML-ND	7.94	5.22	5.09
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	—	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2580-I/SO-ND	7.62	5.01	4.89
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	—	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2580-I/SP-ND	7.88	5.17	5.05
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2580-I/ML-ND	8.34	5.47	5.34
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2580-I/SO-ND	8.02	5.26	5.13
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2580-I/SP-ND	8.26	5.42	5.30
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4580-I/ML-ND	8.34	5.47	5.34
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4580-I/P-ND	8.14	5.34	5.22
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4580-I/PT-ND	8.02	5.26	5.13
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4580-I/ML-ND	8.74	5.73	5.59
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4580-I/PT-ND	8.42	5.52	5.39
24K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2585-I/SO-ND	8.72	5.73	5.59
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2585-I/SP-ND	8.98	5.90	5.76
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2585-I/SO-ND	9.16	6.02	5.87
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2585-I/SP-ND	9.42	6.18	6.04
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4585-I/ML-ND	9.44	6.19	6.04
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4585-I/P-ND	9.24	6.06	5.92
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4585-I/PT-ND	9.12	5.98	5.84
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4585-I/ML-ND	9.88	6.49	6.34
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4585-I/PT-ND	9.56	6.28	6.13
	3328	1024	53	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6585-I/PT-ND	11.30	8.31	8.09
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC	PIC18LF6585-I/L-ND	12.22	11.30	10.57

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

(Continued)

Application Specific *Flash* Microcontrollers

CAN (Controller Area Network) **PIC18F Devices** *(Cont.)*

Memory Size																		Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	CAN	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
24K x 16	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6585-I/PT-ND	11.88	8.73	8.50
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8585-I/PT-ND	11.86	8.71	8.48
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8585-I/PT-ND	12.44	9.15	8.91
32K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2680-I/SO-ND	9.24	6.06	5.92
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2680-I/SP-ND	9.50	6.23	6.08
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2680-I/SO-ND	9.70	6.37	6.22
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2680-I/SP-ND	9.96	6.54	6.38
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4680-I/ML-ND	9.94	6.53	6.37
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4680-I/P-ND	9.76	6.40	6.25
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4680-I/PT-ND	9.62	6.32	6.17
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4680-I/ML-ND	10.42	6.84	6.68
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4680-I/P-ND	10.24	6.72	6.56
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4680-I/PT-ND	10.10	6.63	6.47
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6680-I/PT-ND	12.12	8.91	8.68
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC	PIC18LF6680-I/L-ND	12.86	9.45	9.20
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6680-I/PT-ND	12.74	9.36	9.11
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8680-I/PT-ND	12.64	9.29	9.05
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8680-I/PT-ND	13.28	9.76	9.50
40K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2682-I/SO-ND	10.06	7.57	6.94
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2682-I/SP-ND	10.32	7.77	7.12
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2682-I/SO-ND	10.56	7.96	7.30
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2682-I/SP-ND	10.82	8.15	7.47
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4682-I/ML-ND	10.76	8.11	7.44
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4682-I/P-ND	10.58	7.96	7.30
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4682-I/PT-ND	10.44	7.86	7.21
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4682-I/ML-ND	11.28	8.50	7.79
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4682-I/P-ND	11.10	8.35	7.65
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4682-I/PT-ND	10.96	8.25	7.56
48K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2685-I/SO-ND	10.72	8.08	7.40
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2685-I/SP-ND	10.98	8.27	7.58
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2685-I/SO-ND	11.26	8.48	7.77
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2685-I/SP-ND	11.52	8.67	7.95
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4685-I/ML-ND	11.44	8.62	7.90
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4685-I/P-ND	11.24	8.46	7.76
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4685-I/PT-ND	11.12	8.36	7.67
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4685-I/ML-ND	11.98	9.02	8.27
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4685-I/P-ND	11.80	8.88	8.14
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4685-I/PT-ND	11.66	8.79	8.06

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

USB (Universal Serial Bus)

PIC18F Devices

Memory Size																		Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
8K x 16	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN	PIC18F2450-I/ML-ND	4.40	3.32	3.04
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18F2450-I/SO-ND	4.08	3.06	2.81
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18F2450-I/SP-ND	4.32	3.26	2.99
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2450-I/ML-ND	4.60	3.45	3.16
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2450-I/SO-ND	4.28	3.22	2.95
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2450-I/SP-ND	4.54	3.41	3.13
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18F4450-I/ML-ND	4.70	3.55	3.25
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18F4450-I/P-ND	4.50	3.39	3.11
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-TQFP	PIC18F4450-I/PT-ND	4.38	3.30	3.02
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4450-I/ML-ND	4.92	3.70	3.39
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4450-I/P-ND	4.72	3.57	3.27
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4450-I/PT-ND	4.60	3.47	3.18
12K x 16	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2455-I/SO-ND	6.04	3.96	3.87
	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2455-I/SP-ND	6.30	4.13	4.03
	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2455-I/SO-ND	6.34	4.16	4.06
	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2455-I/SP-ND	6.60	4.33	4.23
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4455-I/ML-ND	6.74	4.43	4.32
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4455-I/P-ND	6.56	4.30	4.20
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4455-I/PT-ND	6.42	4.22	4.12
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4455-I/ML-ND	7.06	4.64	4.53
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4455-I/P-ND	6.88	4.51	4.40
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4455-I/PT-ND	6.74	4.43	4.32
16K x 16	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2550-I/SO-ND	6.30	4.13	4.03
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-DIP .3"	PIC18F2550-I/SP-ND	6.56	4.30	4.20
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2550-I/SO-ND	6.62	4.34	4.24
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2550-I/SP-ND	6.86	4.51	4.40
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18F2553-I/SP-ND	7.78	5.86	5.37
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2553-I/SO-ND	7.90	5.96	5.46
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3"	PIC18LF2553-I/SP-ND	8.16	6.15	5.64
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4550-I/ML-ND	7.00	4.59	4.49
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4550-I/P-ND	6.80	4.47	4.36
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4550-I/PT-ND	6.68	4.38	4.28
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4550-I/ML-ND	7.34	4.81	4.70
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4550-I/P-ND	7.14	4.69	4.58
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4550-I/PT-ND	7.02	4.60	4.49
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-QFN	PIC18F4553-I/ML-ND	8.24	6.21	5.69
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	40-DIP	PIC18F4553-I/P-ND	8.04	6.05	5.55
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-TQFP	PIC18F4553-I/PT-ND	7.92	5.96	5.46
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN	PIC18LF4553-I/ML-ND	8.62	6.50	5.95
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	40-DIP	PIC18LF4553-I/P-ND	8.44	6.34	5.81
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-TQFP	PIC18LF4553-I/PT-ND	8.30	6.24	5.72

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LCD (Liquid Crystal Display)

PIC16F Devices

Memory Size																		Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
4K x 14	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F913-I/ML-ND	3.52	2.66	2.44
	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F913-I/SO-ND	3.20	2.41	2.21
	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F913-I/SP-ND	3.46	2.60	2.39
	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F913-I/SS-ND	3.14	2.37	2.17
	256	256	35	2/1	1 (AUSART)	2 MI^{2}C	1	96	—	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F914-I/ML-ND	4.04	3.05	2.79
	256	256	35	2/1	1 (AUSART)	2 MI^{2}C	1	96	—	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F914-I/P-ND	3.82	2.89	2.65
	256	256	35	2/1	1 (AUSART)	2 MI^{2}C	1	96	—	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F914-I/PT-ND	3.72	2.79	2.56
8K x 14	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F916-I/ML-ND	3.90	2.95	2.70
	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F916-I/SO-ND	3.58	2.70	2.47
	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SDIP .3"	PIC16F916-I/SP-ND	3.84	2.89	2.65
	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-SSOP	PIC16F916-I/SS-ND	3.54	2.66	2.44
	352	256	35	2/1	1 (AUSART)	1	1	96	—	8-ch. 10-bit	2	8MHz, 32kHz	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F917-I/ML-ND	4.28	3.24	2.97
	352	256	35	2/1	1 (AUSART)	1	1	96	—	8-ch. 10-bit	2	8MHz, 32kHz	20	4.0 ~ 5.5	Ind.	40-DIP	PIC16F917-I/P-ND	4.10	3.08	2.83
	352	256	35	2/1	1 (AUSART)	1	1	96	—	8-ch. 10-bit	2	8MHz, 32kHz	20	4.0 ~ 5.5	Ind.	44-TQFP	PIC16F917-I/PT-ND	3.96	2.99	2.74
	336	256	53	2/1	1 (AUSART)	1	1	168	—	8-ch. 10-bit	2	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	64-TQFP	PIC16F946-I/PT-ND	4.22	3.18	2.92

PIC18F Devices

Memory Size																		Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
4K x 16	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6390-I/PT-ND	4.86	3.19	3.12
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6390-I/PT-ND	5.10	3.35	3.27
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8390-I/PT-ND	5.76	3.78	3.69
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8390-I/PT-ND	6.04	3.97	3.87
8K x 16	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6490-I/PT-ND	5.50	3.61	3.53
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	64-TQFP	PIC18LF6490-I/PT-ND	5.78	3.79	3.70
	768	—	66	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8490-I/PT-ND	6.40	4.20	4.10
	768	—	66	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	80-TQFP	PIC18LF8490-I/PT-ND	6.72	4.41	4.31

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

16-bit PIC Microcontrollers

PIC24FJ Devices

Memory Size																	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
16K x 16	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	2	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-QFN	PIC24FJ16GA002-E/ML-ND	3.60	2.83	2.60
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	2	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SOIC	PIC24FJ16GA002-E/SO-ND	3.40	2.68	2.46
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	2	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SDIP	PIC24FJ16GA002-E/SP-ND	3.64	2.87	2.63
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	2	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SSOP	PIC24FJ16GA002-E/SS-ND	3.36	2.64	2.42
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ16GA002-I/ML-ND	3.28	2.58	2.37
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ16GA002-I/SO-ND	3.08	2.43	2.23
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ16GA002-I/SP-ND	3.32	2.62	2.40
	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SSOP	PIC24FJ16GA002-I/SS-ND	3.04	2.39	2.19
	4K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-QFN	PIC24FJ16GA004-E/ML-ND	3.92	3.11	2.82
	4K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-TQFP	PIC24FJ16GA004-E/PT-ND	3.72	2.94	2.67
	4K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ16GA004-I/ML-ND	3.58	2.83	2.57
	4K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ16GA004-I/PT-ND	3.38	2.67	2.43
32K x 16	8K	—	21	5/—	2	2	2	5	9-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ32GB002-I/ML-ND ***NEW!***	4.46	3.51	3.22
	8K	—	21	5/—	2	2	2	5	9-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ32GB002-I/SO-ND ***NEW!***	4.28	3.35	3.07
	8K	—	21	5/—	2	2	2	5	9-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ32GB002-I/SP-ND ***NEW!***	4.52	3.55	3.25
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ32GB004-I/ML-ND ***NEW!***	4.86	3.82	3.50
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ32GB004-I/PT-ND ***NEW!***	4.64	3.64	3.34
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-QFN	PIC24FJ32GA002-E/ML-ND	4.22	3.31	3.04
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SOIC	PIC24FJ32GA002-E/SO-ND	4.02	3.16	2.90
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SDIP	PIC24FJ32GA002-E/SP-ND	4.26	3.35	3.07
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SSOP	PIC24FJ32GA002-E/SS-ND	3.96	3.12	2.86
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ32GA002-I/ML-ND	3.84	3.03	2.77
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ32GA002-I/SO-ND	3.64	2.87	2.63
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ32GA002-I/SP-ND	3.90	3.06	2.81
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SSOP	PIC24FJ32GA002-I/SS-ND	3.60	2.83	2.60
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-QFN	PIC24FJ32GA004-E/ML-ND	4.62	3.64	3.34
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-TQFP	PIC24FJ32GA004-E/PT-ND	4.40	3.47	3.18
	8K	—	35	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ32GA004-I/ML-ND	4.24	3.33	3.06
	8K	—	35	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ32GA004-I/PT-ND	4.02	3.16	2.90
48K x 8	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-QFN	PIC24FJ48GA002-E/ML-ND	4.60	3.62	3.32
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SOIC	PIC24FJ48GA002-E/SO-ND	4.40	3.47	3.18
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SDIP	PIC24FJ48GA002-E/SP-ND	4.66	3.66	3.36
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SSOP	PIC24FJ48GA002-E/SS-ND	4.36	3.43	3.14
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ48GA002-I/ML-ND	4.22	3.31	3.04
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ48GA002-I/SO-ND	4.02	3.16	2.90
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ48GA002-I/SP-ND	4.26	3.35	3.07
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SSOP	PIC24FJ48GA002-I/SS-ND	3.96	3.12	2.86
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-QFN	PIC24FJ48GA004-E/ML-ND	5.04	3.97	3.64
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-TQFP	PIC24FJ48GA004-E/PT-ND	4.82	3.80	3.48
64K x 16	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-QFN	PIC24FJ64GA002-E/ML-ND	5.02	3.95	3.62
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SOIC	PIC24FJ64GA002-E/SO-ND	4.82	3.80	3.48
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SDIP	PIC24FJ64GA002-E/SP-ND	5.06	3.99	3.66
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	28-SSOP	PIC24FJ64GA002-E/SS-ND	4.78	3.76	3.45
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ64GA002-I/ML-ND	4.58	3.60	3.30
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ64GA002-I/SO-ND	4.38	3.45	3.16
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ64GA002-I/SP-ND	4.62	3.64	3.34
	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SSOP	PIC24FJ64GA002-I/SS-ND	4.34	3.41	3.13
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-QFN	PIC24FJ64GA004-E/ML-ND	5.12	4.02	3.68
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ext.	44-TQFP	PIC24FJ64GA004-E/PT-ND	4.96	3.90	3.58
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ64GA004-I/ML-ND	4.66	3.66	3.36
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ64GA004-I/PT-ND	4.52	3.55	3.25
	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ64GA006-I/PT-ND	4.94	3.87	3.55
	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ64GA008-I/PT-ND	5.38	4.22	3.87
	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ64GA010-I/PF-ND	6.36	4.99	4.58

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

16-bit PIC Microcontrollers

PIC24FJ Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
64K x 16	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ64GA010-I/PT-ND	5.74	4.51	4.13
	8K	—	21	5/—	2	2	2	5	9-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP .3"	PIC24FJ64GB002-I/SP-ND ***NEW!***	5.26	3.78	3.78
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ64GB004-I/ML-ND ***NEW!***	5.60	4.03	4.03
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ64GB004-I/PT-ND ***NEW!***	5.38	3.87	3.87
	16K	—	52	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ64GB106-I/MR-ND	6.40	5.03	4.61
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ64GB106-I/PT-ND	6.26	4.91	4.51
	16K	—	80	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ64GB108-I/PT-ND	6.72	5.28	4.84
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ64GB110-I/PT-ND	7.10	5.57	5.11
96K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ96GA006-I/PT-ND	5.16	4.05	3.71
	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ96GA008-I/PT-ND	5.60	4.39	4.03
128K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ128GA006-I/PT-ND	5.36	4.20	3.85
	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ128GA008-I/PT-ND	5.82	4.57	4.19
	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GA010-I/PF-ND	6.78	5.32	4.88
	16K	—	53	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ128GA106-I/MR-ND	6.38	5.01	4.59
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ128GA106-I/PT-ND	6.22	4.90	4.49
	16K	—	80	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ128GA108-I/PT-ND	6.68	5.26	4.82
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GA110-I/PF-ND	8.28	6.51	5.97
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GA110-I/PT-ND	7.06	5.55	5.09
	16K	—	52	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ128GB106-I/MR-ND	6.82	5.36	4.91
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ128GB106-I/PT-ND	6.68	5.24	4.81
	16K	—	80	5/—	4	3	3	9	16-ch. 10-bit	3	8MHZ, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ128GB108-I/PT-ND	7.14	5.61	5.14
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GB110-I/PF-ND	8.12	6.38	5.85
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GB110-I/PT-ND	7.52	5.90	5.41
192K x 16	16K	—	53	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ192GA106-I/MR-ND	6.76	5.30	4.86
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ192GA106-I/PT-ND	6.58	5.18	4.75
	16K	—	80	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ192GA108-I/PT-ND	7.06	5.55	5.09
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ192GA110-I/PF-ND	8.64	6.80	6.24
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ192GA110-I/PT-ND	7.42	5.84	5.35
	16K	—	52	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ192GB106-I/MR-ND	7.20	5.65	5.18
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ192GB106-I/PT-ND	7.04	5.53	5.07
256K x 16	16K	—	53	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ256GA106-I/MR-ND	7.12	5.59	5.12
	16K	—	64	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ256GA106-I/PT-ND	6.96	5.47	5.02
	16K	—	80	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ256GA108-I/PT-ND	7.42	5.84	5.35
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ256GA110-I/PF-ND	9.00	7.09	6.50
	16K	—	100	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ256GA110-I/PT-ND	7.78	6.13	5.62
	16K	—	52	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-QFN	PIC24FJ256GB106-I/MR-ND	7.56	5.94	5.44
	16K	—	52	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	64-TQFP	PIC24FJ256GB106-I/PT-ND	7.42	5.82	5.34
	16K	—	68	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	80-TQFP	PIC24FJ256GB108-I/PT-ND	7.88	6.19	5.67
	16K	—	84	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ256GB110-I/PF-ND	8.86	6.96	6.38
	16K	—	84	5/—	4	3	3	9	16-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	100-TQFP	PIC24FJ256GB110-I/PT-ND	8.24	6.48	5.94

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

PIC24HJ Devices, 40 MIPs

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
12K x 16	1K	—	21	3/1	1	1	1	4	6-ch. 12-bit, 6-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	18-DIP	PIC24HJ12GP201-I/P-ND	3.78	2.97	2.72
	1K	—	21	3/1	1	1	1	4	6-ch. 12-bit, 6-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	18-SOIC	PIC24HJ12GP201-I/SO-ND	3.64	2.87	2.63
	1K	—	21	3/1	1	1	1	2	6-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SSOP	PIC24HJ12GP202-I/SS-ND	3.92	3.08	2.83
	1K	—	21	3/1	1	1	1	4	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ12GP202-I/ML-ND	4.16	3.28	3.00
	1K	—	21	3/1	1	1	1	4	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ12GP202-I/SO-ND	3.96	3.12	2.86
	1K	—	21	3/1	1	1	1	4	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3"	PIC24HJ12GP202-I/SP-ND	4.22	3.31	3.04
16K x 16	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ16GP304-I/ML-ND	4.44	3.51	3.18
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ16GP304-I/PT-ND	4.22	3.34	3.04
32K x 16	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ32GP202-I/MM-ND	4.38	3.47	3.15
	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ32GP202-I/SO-ND	4.20	3.32	3.02
	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SDIP .3"	PIC24HJ32GP202-I/SP-ND	4.44	3.51	3.18
	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ32GP202-E/MM-ND	4.80	3.80	3.45
	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ32GP202-E/SO-ND	4.62	3.65	3.32
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ32GP204-I/ML-ND	4.52	3.56	3.23
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ32GP204-I/PT-ND	4.38	3.45	3.14
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ32GP302-E/MM-ND	5.50	4.34	3.98
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ32GP302-I/MM-ND	5.02	3.95	3.62
	4K	—	21	5/2	2	1	2	4	10-ch. 10-bit, 10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ32GP302-E/SO-ND	5.32	4.18	3.83
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit, 10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ32GP302-I/SO-ND	4.82	3.80	3.48
	4K	—	21	5/2	2	1	2	4	10-ch. 10-bit, 10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	PIC24HJ32GP302-E/SP-ND	5.56	4.37	4.01
	4K	—	21	5/2	2	1	2	4	10-ch. 10-bit, 10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	PIC24HJ32GP302-I/SP-ND	5.06	3.99	3.66
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ32GP304-E/ML-ND	5.64	4.47	4.06
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ32GP304-I/ML-ND	5.14	4.07	3.70
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ32GP304-E/PT-ND	5.44	4.31	3.91
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ32GP304-I/PT-ND	4.94	3.91	3.55
64K x 8	8K	—	53	9/	2	1	2	8	18-ch. 10-bit, 18-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-TFQFP	PIC24HJ64GP206A-I/PT-ND ***NEW!***	5.94	4.66	4.28
	8K	—	85	9/	2	2	2	8	32-ch. 10-bit, 32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210A-I/PF-ND ***NEW!***	7.42	5.82	5.34
	8K	—	85	9/	2	2	2	8	32-ch. 10-bit, 32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210A-I/PT-ND ***NEW!***	6.80	5.34	4.89
	8K	—	53	9/	2	2	2	8	18-ch. 10-bit, 18-ch. 12-bit	8	7.37MHz, 32kHz	40	3.0 ~ 3.6	Ind.	64-QFN	PIC24HJ64GP506A-I/MR-ND ***NEW!***	6.46	5.07	4.65
	8K	—	53	9/	2	2	2	8	18-ch. 10-bit, 18-ch. 12-bit	8	7.37MHz, 32kHz	40	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP506A-I/PT-ND ***NEW!***	6.30	4.95	4.54
	8K	—	85	9/	2	2	2	8	32-ch. 10-bit, 32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP510A-I/PF-ND ***NEW!***	7.74	6.07	5.57
	8K	—	85	9/	2	2	2	8	32-ch. 10-bit, 32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP510A-I/PT-ND ***NEW!***	7.12	5.59	5.12
64K x 16	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ64GP202-E/MM-ND	6.20	4.88	4.47
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ64GP202-I/MM-ND	5.66	4.45	4.08
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ64GP202-E/SO-ND	6.00	4.72	4.33
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ64GP202-I/SO-ND	5.46	4.30	3.94
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	PIC24HJ64GP202-E/SP-ND	6.24	4.91	4.51
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	PIC24HJ64GP202-I/SP-ND	5.70	4.49	4.12
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ64GP204-E/ML-ND	6.50	5.10	4.67
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ64GP204-I/ML-ND	5.92	4.64	4.26
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ64GP204-E/PT-ND	6.34	4.98	4.57
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ64GP204-I/PT-ND	5.76	4.53	4.15
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ64GP502-E/MM-ND	6.60	5.20	4.77
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	32	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ64GP502-I/MM-ND	6.02	4.74	4.35
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ64GP502-E/SO-ND	6.42	5.05	4.63
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ64GP502-I/SO-ND	5.82	4.59	4.20
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	PIC24HJ64GP502-E/SP-ND	6.66	5.24	4.81
	4K	—	21	5/2	2	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	PIC24HJ64GP502-I/SP-ND	6.08	4.78	4.38
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ64GP504-E/ML-ND	7.12	5.61	5.14
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ64GP504-I/ML-ND	6.48	5.11	4.68
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ64GP504-E/PT-ND	6.90	5.43	4.98
	4K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ64GP504-I/PT-ND	6.26	4.93	4.52

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

(Continued)

16-bit PIC Microcontrollers

PIC24HJ Devices, 40MIPs *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
64K x 16	8K	—	53	9/4	2	1	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP206-I/PT-ND	5.94	4.66	4.28
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210-I/PF-ND	7.42	5.82	5.34
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210-I/PT-ND	6.80	5.34	4.89
	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP506-I/PT-ND	6.30	4.95	4.54
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP510-I/PF-ND	7.74	6.07	5.57
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP510-I/PT-ND	7.12	5.59	5.12
128K x 8	8k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-QFN	PIC24HJ128GP206A-I/MR-ND ***NEW!***	6.50	5.11	4.68
	8k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP206A-I/PT-ND ***NEW!***	6.36	4.99	4.58
	8k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210A-I/PF-ND ***NEW!***	7.88	6.19	5.67
	8k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210A-I/PT-ND ***NEW!***	7.26	5.70	5.23
	16k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-QFN	PIC24HJ128GP306A-I/MR-ND ***NEW!***	6.80	5.34	4.89
	16k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP306A-I/PT-ND ***NEW!***	6.66	5.22	4.79
	16k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310A-I/PF-ND ***NEW!***	8.08	6.34	5.81
	16k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310A-I/PT-ND ***NEW!***	7.46	5.86	5.37
	8k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 32kHz	40	3.0 ~ 3.6	Ind.	64-QFN	PIC24HJ128GP506A-I/MR-ND ***NEW!***	6.90	5.42	4.96
	8k	—	53	9/	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 32kHz	40	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP506A-I/PT-ND ***NEW!***	6.76	5.30	4.86
	8k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP510A-I/PF-ND ***NEW!***	8.18	6.42	5.88
	8k	—	85	9/	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP510A-I/PT-ND ***NEW!***	7.56	5.94	5.44
128K x 16	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ128GP202-E/MM-ND	6.84	5.38	4.93
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	PIC24HJ128GP202-I/MM-ND	6.22	4.90	4.49
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ128GP202-E/SO-ND	6.64	5.22	4.79
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ128GP202-I/SO-ND	6.02	4.74	4.35
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	PIC24HJ128GP202-E/SP-ND	6.88	5.42	4.96
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	PIC24HJ128GP202-I/SP-ND	6.26	4.93	4.52
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ128GP204-E/ML-ND	7.06	5.54	5.08
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ128GP204-I/ML-ND	6.44	5.05	4.63
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ128GP204-E/PT-ND	6.92	5.43	4.98
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ128GP204-I/PT-ND	6.28	4.93	4.52
	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP206-I/PT-ND	6.36	4.99	4.58
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210-I/PF-ND	7.88	6.19	5.67
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210-I/PT-ND	7.26	5.70	5.23
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	PIC24HJ128GP502-E/MM-ND	7.22	5.69	5.21
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN-S	PIC24HJ128GP502-I/MM-ND	6.58	5.18	4.75
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	PIC24HJ128GP502-I/SP-ND	6.64	5.22	4.79
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	PIC24HJ128GP502-E/SO-ND	7.02	5.53	5.07
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	PIC24HJ128GP502-I/SO-ND	6.38	5.03	4.61
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	PIC24HJ128GP502-E/SP-ND	7.28	5.72	5.25
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ128GP504-E/ML-ND	7.68	6.05	5.55
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	PIC24HJ128GP504-I/ML-ND	7.00	5.51	5.05
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ128GP504-E/PT-ND	7.46	5.88	5.39
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	PIC24HJ128GP504-I/PT-ND	6.78	5.34	4.89
	8K	—	53	—/9	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP506-I/PT-ND	6.76	5.30	4.86
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP510-I/PF-ND	8.18	6.42	5.88
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP510-I/PT-ND	7.56	5.94	5.44
	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP306-I/PT-ND	6.66	5.22	4.79
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310-I/PF-ND	8.08	6.34	5.81
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310-I/PT-ND	7.46	5.86	5.37
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-QFN	PIC24HJ128GP502-H/MM-ND ***NEW!***	8.60	6.76	6.19
	8K	—	21	5/2	2	1	2	4	10-ch. 12-bit	4	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-SOIC	PIC24HJ128GP502-H/SO-ND ***NEW!***	8.46	6.64	6.09
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-QFN	PIC24HJ128GP504-H/ML-ND ***NEW!***	9.12	7.16	6.57
	8K	—	35	5/2	2	1	2	4	13-ch. 12-bit	4	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-TQFP	PIC24HJ128GP504-H/PT-ND ***NEW!***	8.98	7.05	6.46
	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	64-QFN	PIC24HJ128GP506A-H/MR-ND ***NEW!***	9.06	7.11	6.52
	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	64-TQFP	PIC24HJ128GP506A-H/PT-ND ***NEW!***	8.92	7.00	6.41
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	100-TQFP	PIC24HJ128GP510A-H/PF-ND ***NEW!***	10.60	8.32	7.62
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	100-TQFP	PIC24HJ128GP510A-H/PT-ND ***NEW!***	9.98	7.84	7.18
256K x 16	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ256GP206-I/PT-ND	7.10	5.57	5.11
	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	64-QFN	PIC24HJ256GP206A-H/MR-ND ***NEW!***	9.52	7.47	6.85
	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	64-TQFP	PIC24HJ256GP206A-H/PT-ND ***NEW!***	9.36	7.35	6.74
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP210-I/PF-ND	8.74	6.86	6.29
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP210-I/PT-ND	8.12	6.38	5.85
	16K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP610-I/PF-ND	9.52	7.48	6.85
	16K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP610-I/PT-ND	8.92	7.00	6.41
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	100-TQFP	PIC24HJ256GP610A-H/PF-ND ***NEW!***	12.38	9.72	8.91
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit	8	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	100-TQFP	PIC24HJ256GP610A-H/PT-ND ***NEW!***	11.76	9.23	8.47

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

32-bit PIC Microcontrollers

PIC32MX Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes															1	10	25
32K	8K	—	53	5	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX320F032H-40I/MR-ND	5.58	4.38	4.01
	8K	—	53	5/1	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	40	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX320F032H-40I/PT-ND	5.42	4.26	3.90
	8K	—	51	5	2	2	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX420F032H-40I/MR-ND	6.04	4.74	4.35
	8K	—	51	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	40	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX420F032H-40I/PT-ND	5.90	4.63	4.24
64K	16K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX320F064H-40I/PT-ND ***NEW!***	5.90	4.63	4.24
	16k	—	53	5/1	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX320F064H-40I/MR-ND ***NEW!***	6.04	4.74	4.35
	16K	—	53	5	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX320F064H-80I/MR-ND	6.30	4.95	4.54
	16K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX320F064H-80I/PT-ND	6.16	4.84	4.43
128K	16K	—	53	5	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX320F128H-80I/MR-ND	6.72	5.28	4.84
	16K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX320F128H-80I/PT-ND	6.58	5.17	4.73
	16K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX320F128L-80I/PT-ND	7.78	6.11	5.60
	16K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX320F128L-80I/BG-ND ***NEW!***	8.28	6.50	5.95
	32K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX340F128H-80I/PT-ND	6.94	5.45	5.00
	32K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX340F128H-80I/MR-ND ***NEW!***	7.10	5.57	5.11
	32K	—	51	5	2	2	1	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX440F128H-80I/MR-ND	7.56	5.94	5.44
	32K	—	51	5	2	2	1	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX440F128H-80I/PT-ND	7.42	5.82	5.34
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX340F128L-80I/PT-ND	7.78	6.11	5.60
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX340F128L-80I/BG-ND ***NEW!***	8.28	6.50	5.95
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX440F128L-80I/BG-ND ***NEW!***	8.74	6.86	6.29
	32K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX440F128L-80I/PT-ND	8.24	6.48	5.94
256K	32K	—	51	5	2	2	1	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX440F256H-80I/MR-ND ***NEW!***	8.18	6.42	5.88
	32K	—	53	5	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX340F256H-80I/MR-ND	7.70	6.05	5.55
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX360F256L-80I/BG-ND ***NEW!***	8.88	6.98	6.40
	32K	—	53	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX340F256H-80I/PT-ND	7.56	5.94	5.44
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX360F256L-80I/PT-ND	8.40	6.59	6.04
	32K	—	85	5	2	2	1	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX440F256H-80I/PT-ND	8.02	6.30	5.78

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

(Continued)

32-bit PIC Microcontrollers

PIC32MX Devices *(Cont.)*

Memory Size				Timer/								Clock					Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Counters 16/32-bit	UART	I^{2}C™	SPI™	PWM	A/D	Capture Compare	Internal Oscillator	Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
256K	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX460F256L-80I/PT-ND	8.86	6.96	6.38
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX460F256L-80I/BG-ND ***NEW!***	9.36	7.34	6.73
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX575F256H-80I/MR-ND ***NEW!***	8.84	6.94	6.36
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	60-TQFP	PIC32MX575F256H-80I/PT-ND ***NEW!***	8.68	6.82	6.25
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX575F256L-80I/BG-ND ***NEW!***	10.02	7.86	7.21
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX575F256L-80I/PF-ND ***NEW!***	10.14	7.96	7.30
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX575F256L-80I/PT-ND ***NEW!***	9.52	7.48	6.85
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX675F256H-80I/MR-ND ***NEW!***	9.26	7.27	6.66
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX675F256H-80I/PT-ND ***NEW!***	9.10	7.15	6.55
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XGBA	PIC32MX675F256L-80I/BG-ND ***NEW!***	10.44	8.19	7.51
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX675F256L-80I/PF-ND ***NEW!***	10.56	8.29	7.60
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX675F256L-80I/PT-ND ***NEW!***	9.94	7.81	7.16
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3,6	Ind.	64-QFN	PIC32MX775F256H-80I/MR-ND ***NEW!***	9.64	7.57	6.94
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX775F256H-80I/PT-ND ***NEW!***	9.50	7.46	6.84
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX775F256L-80I/BG-ND ***NEW!***	10.82	8.50	7.79
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX775F256L-80I/PF-ND ***NEW!***	10.94	8.60	7.88
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX775F256L-80I/PT-ND ***NEW!***	10.34	8.11	7.44
512K	32K	—	51	5	2	2	2	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX340F512H-80I/MR-ND	8.52	6.69	6.13
	32K	—	51	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX340F512H-80I/PT-ND	8.38	6.57	6.02
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX360F512L-80I/BG-ND ***NEW!***	9.70	7.61	6.98
	32K	—	85	5/1	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX360F512L-80I/PT-ND	9.20	7.23	6.63
	32K	—	51	5	2	2	1	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX440F512H-80I/MR-ND	8.98	7.05	6.47
	32K	—	51	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX440F512H-80I/PT-ND	8.84	6.94	6.36
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX460F512L-80I/PT-ND	9.68	7.59	6.96
	32K	—	85	5	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX460F512L-80I/BG-ND ***NEW!***	10.16	7.98	7.31
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX575F512H-80I/MR-ND ***NEW!***	9.64	7.57	6.94
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX575F512H-80I/PT-ND ***NEW!***	9.50	7.46	6.84
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX575F512L-80I/BG-ND ***NEW!***	10.82	8.50	7.79
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX575F512L-80I/PF-ND ***NEW!***	10.94	8.60	7.88
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX575F512L-80I/PT-ND ***NEW!***	10.34	8.11	7.44
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX675F512H-80I/MR-ND ***NEW!***	10.06	7.90	7.24
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX675F512H-80I/PT-ND ***NEW!***	9.92	7.79	7.14
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX675F512L-80I/BG-ND ***NEW!***	11.24	8.83	8.09
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX675F512L-80I/PF-ND ***NEW!***	11.36	8.92	8.18
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX675F512L-80I/PT-ND ***NEW!***	10.76	8.44	7.74
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX775F512H-80I/MR-ND ***NEW!***	10.46	8.21	7.53
	64K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX775F512H-80I/PT-ND ***NEW!***	10.30	8.09	7.42
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX775F512L-80I/BG-ND ***NEW!***	11.64	9.14	8.37
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX775F512L-80I/PF-ND ***NEW!***	11.76	9.23	8.46
	64K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX775F512L-80I/PT-ND ***NEW!***	11.14	8.75	8.02
	128K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX695F512H-80I/MR-ND ***NEW!***	10.90	8.56	7.84
	128K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX695F512H-80I/PT-ND ***NEW!***	10.76	8.44	7.74
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX695F512L-80I/BG-ND ***NEW!***	12.08	9.48	8.69
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX695F512L-80I/PF-ND ***NEW!***	12.20	9.58	8.78
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX695F512L-80I/PT-ND ***NEW!***	11.58	9.10	8.34
	128K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-QFN	PIC32MX795F512H-80I/MR-ND ***NEW!***	11.30	8.87	8.13
	128K	—	53	5	6	4	3	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX795F512H-80I/PT-ND ***NEW!***	11.14	8.75	8.02
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	121-XBGA	PIC32MX795F512L-80I/BG-ND ***NEW!***	12.46	9.79	8.97
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX795F512L-80I/PF-ND ***NEW!***	12.60	9.89	9.06
	128K	—	85	5	6	5	4	5	16-ch. 10-bit	2	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX795F512L-80I/PT-ND ***NEW!***	11.98	9.41	8.62

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C)

16-bit dsPIC DSCs

dsPIC30F DSCs, 30 MIPs

Memory Size				Timer/				Output	Motor				Clock		Oper-			Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Counters 16-bit	UART	I^{2}C™	SPI™	Comp/Std. PWM	Control PWM	A/D	Analog Comp.	Int. Osc.	Speed (MHz)	VCC (V)	ating Temp.	Package	Digi-Key Part No.	1	10	25
4K x 24	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-QFN	DSPIC30F1010-20E/MM-ND◆	5.64	4.44	4.03
	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-SOIC	DSPIC30F1010-20E/SO-ND◆	5.46	4.30	3.90
	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-DIP .3"	DSPIC30F1010-20E/SP-ND◆	5.70	4.48	4.07
	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-QFN	DSPIC30F1010-30I/MM-ND◆	5.16	4.05	3.68
	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-SOIC	DSPIC30F1010-30I/SO-ND◆	4.96	3.91	3.55
	256	—	21	2	1	1	1	1	4	6-ch. 10-bit	2	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F1010-30I/SP-ND◆	5.20	4.09	3.71
	12K	1024	20	3	1	1	1	2	6	6-ch. 10-bit	—	7.37MHz, 512kHz	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F2010-20I/MM-ND◆	4.46	3.51	3.18
	24K	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	7.37MHz, 512kHz	30	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F2010-30I/MM-ND◆	4.66	3.67	3.33
	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F2010-20I/MM-ND◆	4.46	3.51	3.18
	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	20	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F201020IS-ND◆	4.28	3.36	3.05
	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	20	2.5 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F201020ISP-ND◆	4.50	3.54	3.22
	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F201030ISO-ND◆	6.88	4.82	4.41
	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F201030ISP-ND◆	4.72	3.71	3.37
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201120IML-ND◆	4.34	3.41	3.09
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	18-DIP	DSPIC30F2011-20IP-ND◆	4.04	3.18	2.89
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	18-SOIC	DSPIC30F201120ISO-ND◆	3.92	3.09	2.81
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201130IML-ND◆	4.34	3.41	3.09
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	18-DIP	DSPIC30F2011-30IP-ND◆	4.04	3.18	2.89
	1024	—	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	18-SOIC	DSPIC30F201130ISO-ND◆	3.92	3.09	2.81
	1024	—	20	3	1	1	1	2	—	10-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F201220ISO-ND◆	4.08	3.22	2.92
	1024	—	20	3	1	1	1	2	—	10-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F201220ISP-ND◆	4.32	3.40	3.09
	1024	—	20	3	1	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201230IML-ND◆	4.28	3.36	3.05
	1024	—	20	3	1	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F201230ISO-ND◆	4.08	3.22	2.92
	1024	—	20	3	1	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F201230ISP-ND◆	4.32	3.40	3.09
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-QFN	DSPIC30F2020-20E/MM-ND◆	7.20	5.66	5.14
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-SOIC	DSPIC30F2020-20E/SO-ND◆	7.02	5.52	5.01
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-QFN	DSPIC30F2020-30I/MM-ND◆	6.56	5.16	4.69
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-SOIC	DSPIC30F2020-30I/SO-ND◆	6.38	5.01	4.55
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-SOIC	DSPIC30F2020T-30I/SOCT-ND◆†	7.25	5.06	4.60
	512	—	21	3	1	1	1	2	8	8-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F2020-30I/SP-ND◆	6.60	5.20	4.72
	512	—	35	3	1	1	1	2	8	12-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	44-QFN	DSPIC30F2023-20E/ML-ND◆	7.98	6.28	5.70
	512	—	35	3	1	1	1	2	8	12-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	44-TQFP	DSPIC30F2023-20E/PT-ND◆	7.78	6.11	5.55
	512	—	35	3	1	1	1	2	8	12-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	44-QFN	DSPIC30F2023-30I/ML-ND◆	7.28	5.72	5.20
	512	—	35	3	1	1	1	2	8	12-ch. 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	44-TQFP	DSPIC30F2023-30I/PT-ND◆	7.06	5.56	5.05
8K x 24	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301020IML-ND◆	6.18	4.86	4.41
	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F301020ISO-ND◆	5.32	4.18	3.80
	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	28-DIP .3"	DSPIC30F301020ISP-ND◆	5.54	4.36	3.96
	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301030IML-ND◆	6.18	4.86	4.41
	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F301030ISO-ND◆	5.32	4.18	3.80

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel
Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

16-bit dsPIC DSCs

dsPIC30F DSCs, 30 MIPs *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 16-bit	UART	I^2C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper-ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	10	25
8K X 24	1024	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	28-DIP .3”	DSPIC30F301030ISP-ND◆	5.54	4.36	3.96
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301120IML-ND◆	6.06	4.76	4.32
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F3011-20IP-ND◆	6.02	4.73	4.30
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F301120IPT-ND◆	5.84	4.60	4.17
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301130IML-ND◆	6.06	4.76	4.32
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F3011-30IP-ND◆	6.02	4.73	4.30
	1024	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F301130IPT-ND◆	5.84	4.60	4.17
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301220IML-ND◆	5.70	4.48	4.07
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	18-DIP	DSPIC30F3012-20IP-ND◆	4.82	3.80	3.45
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	18-SOIC	DSPIC30F301220ISO-ND◆	4.72	3.71	3.37
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301230IML-ND◆	5.70	4.48	4.07
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	18-DIP	DSPIC30F3012-30IP-ND◆	4.82	3.80	3.45
	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	18-SOIC	DSPIC30F301230ISO-ND◆	4.72	3.71	3.37
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301320IML-ND◆	5.74	4.51	4.10
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F301320ISO-ND◆	4.88	3.83	3.48
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-DIP .3”	DSPIC30F301320ISP-ND◆	5.10	4.01	3.65
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301330IML-ND◆	5.74	4.51	4.10
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F301330ISO-ND◆	4.88	3.83	3.48
	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	28-DIP .3”	DSPIC30F301330ISP-ND◆	5.10	4.01	3.65
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301420IML-ND◆	5.92	4.65	4.22
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F3014-20IP-ND◆	5.88	4.62	4.20
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F301420IPT-ND◆	5.70	4.49	4.08
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301430IML-ND◆	5.92	4.65	4.22
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F301430/P-ND◆	5.88	4.62	4.20
	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F301430IPT-ND◆	5.70	4.49	4.08
16K x 24	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401120/ML-ND◆	7.28	5.72	5.20
	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F4011-20IP-ND◆	7.24	5.70	5.17
	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F401120IPT-ND◆	7.06	5.56	5.05
	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401130IML-ND◆	7.28	5.72	5.20
	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F4011-30IP-ND◆	7.24	5.70	5.17
	2048	1024	30	5	2	1	1	4	6	9-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F401130IPT-ND◆	7.06	5.56	5.05
	2048	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F401220ISO-ND◆	6.54	5.14	4.67
	2048	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	28-DIP .3”	DSPIC30F401220ISP-ND	6.76	5.32	4.83
	2048	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401230IML-ND◆	7.40	5.82	5.29
	2048	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	28-SOIC	DSPIC30F401230ISO-ND◆	6.54	5.14	4.67
	2048	1024	20	5	1	1	1	2	6	6-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	28-DIP .3”	DSPIC30F401230ISP-ND◆	6.76	5.32	4.83
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401320IML-ND◆	7.10	5.58	5.07
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F4013-20IP-ND◆	7.06	5.55	5.04
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F401320IPT-ND◆	6.88	5.41	4.92
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401330IML-ND◆	7.10	5.58	5.07
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	40-DIP	DSPIC30F4013-30IP-ND◆	7.06	5.55	5.04
	2048	1024	30	5	2	1	1	4	—	13-ch. 12-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	44-TQFP	DSPIC30F401330IPT-ND◆	6.88	5.41	4.92
22K x 24	4096	1024	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F5011-20I/PT-ND◆	8.74	6.87	6.24
	4096	1024	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F5011-30I/PT-ND◆	9.18	7.21	6.55
	4096	1024	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F501320IPT-ND◆	9.64	7.58	6.88
	4096	1024	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F501330IPT-ND◆	10.08	7.92	7.19
	2048	1024	52	5	1	1	2	4	8	16-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F501530IPT-ND◆	8.94	7.03	6.39
	2048	1024	68	5	1	1	2	4	8	16-ch. 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F501630IPT-ND◆	9.84	7.74	7.03
44K x 24	6144	2048	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601120IPF-ND◆	20.06	15.71	15.33
	6144	2048	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601130IPF-ND◆	24.06	16.50	16.10
	6144	2048	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F6011A30IP-ND◆	12.12	9.54	8.66
	6144	2048	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F6011A-30I/PF-ND◆	13.28	10.45	9.48
	6144	2048	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601320IPF-ND	20.42	16.06	15.68
	6144	2048	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601330IPF-ND	24.52	16.87	16.47
	6144	2048	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6013A30IP-ND◆	12.56	9.88	8.98
	6144	2048	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6013A-30I/PF-ND◆	13.72	10.80	9.80
48K x 24	8192	4096	68	5	2	1	2	8	8	16-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6010A-30I/PF-ND◆	14.12	11.10	10.08
	8192	4096	68	5	2	1	2	8	8	16-ch. 10-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601020IPF-ND◆	22.46	16.40	16.01
	8192	4096	68	5	2	1	2	8	8	16-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601030IPF-ND◆	26.04	17.22	16.81
	8192	4096	68	5	2	1	2	8	8	16-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6010A30IP-ND◆	12.96	10.19	9.26
	8192	4096	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601220IPF-ND◆	20.98	15.88	15.50
	8192	4096	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601230IPF-ND◆	24.30	16.67	16.27
	8192	4096	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F6012A30IP-ND◆	12.24	9.63	8.75
	8192	4096	52	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F6012A-30I/PF-ND◆	13.40	10.54	9.57
	8192	4096	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601420IPF-ND◆	22.00	16.40	16.01
	8192	4096	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601430IPF-ND◆	25.48	17.22	16.81
	8192	4096	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6014A30IP-ND◆	12.76	10.03	9.11
	8192	4096	68	5	2	1	2	8	—	16-ch. 12-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6014A-30I/PF-ND◆	13.90	10.94	9.93
	8192	4096	52	5	2	1	2	6	8	16-ch. 10-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601530IPT-ND◆	12.64	9.94	9.03
144K x 8	8192	—	68	5	2	1	2	8	8	16-ch. 10-bit	—	7.37 MHz, 512kHz	30	2.5 ~ 5.5	Ext.	80-TQFP	DSPIC30F6010A-20E/PT-ND◆ ***NEW!***	14.26	11.21	10.18

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

dsPIC33F Devices, 40 MIPs

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^2C™	SPI™	Output Comp/ Std. PWM	Motor Control PWM	A/D	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes															1	10	25
6K	256	—	13	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	18-SOIC	DSPIC33FJ06GS101-I/SO-ND	3.42	2.71	2.46
	256	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ06GS102-I/MM-ND	4.04	3.18	2.92
	256	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ06GS102-I/SO-ND	3.84	3.03	2.77
	256	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ06GS102-I/SP-ND	4.08	3.22	2.95
	1K	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ06GS202-I/MM-ND	4.36	3.43	3.14
	1K	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ06GS202-I/SO-ND	4.16	3.28	3.00
	1K	—	21	2/—	1	1	1	1	4	6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ06GS202-I/SP-ND	4.40	3.47	3.18
12K	1K	—	13	3/1	1	1	1	2	—	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	18-DIP	DSPIC33FJ12GP201-I/P-ND	3.78	2.97	2.72
	1K	—	13	3/1	1	1	1	2	—	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	18-SOIC	DSPIC33FJ12GP201-I/SO-ND	3.64	2.87	2.63
	1K	—	15	3/1	1	1	1	2	8	4-ch. 12-bit, 4-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	20-DIP	DSPIC33FJ12MC201-I/P-ND	4.26	3.35	3.07
	1K	—	15	3/1	1	1	1	2	8	4-ch. 12-bit, 4-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	20-SOIC	DSPIC33FJ12MC201-I/SO-ND	4.02	3.16	2.90
	1K	—	15	3/1	1	1	1	2	8	4-ch. 12-bit, 4-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	20-SSOP	DSPIC33FJ12MC201-I/SS-ND	3.64	2.87	2.63
	1K	—	21	3/1	1	1	1	2	—	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ12GP202-I/ML-ND	4.12	3.24	2.97
	1K	—	21	3/1	1	1	1	2	—	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ12GP202-I/SO-ND	3.98	3.12	2.86
	1K	—	21	3/1	1	1	1	2	—	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3”	DSPIC33FJ12GP202-I/SP-ND	4.22	3.32	3.04
	1K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ12MC202-I/SO-ND	4.10	3.22	2.95
	1K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SSOP	DSPIC33FJ12MC202-I/SS-ND	4.06	3.18	2.92
	1K	—	21	3/—	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3”	DSPIC33FJ12MC202-I/SP-ND	4.34	3.41	3.13
	1K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ12MC202-I/ML-ND	4.24	3.33	3.06

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications) *(Continued)*

16-bit dsPIC DSCs

dsPIC33F Devices, 40 MIPs *(Cont.)*

Memory Size																	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	Output Comp/ Std. PWM	Motor Control PWM	A/D	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
16K	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit, 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ16GP304-I/ML-ND	4.66	3.66	3.36
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit, 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ16GP304-I/PT-ND	4.52	3.55	3.25
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ16MC304-I/ML-ND	4.78	3.76	3.45
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ16MC304-E/PT-ND	5.10	4.01	3.67
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ16MC304-I/PT-ND	4.64	3.64	3.34
	2K	—	21	3/1	1	1	1	2	6	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ16GS402-I/MM-ND	4.60	3.62	3.32
	2K	—	21	3/1	1	1	1	2	6	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ16GS402-I/SO-ND	4.40	3.47	3.18
	2K	—	21	3/1	1	1	1	2	6	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ16GS402-I/SP-ND	4.66	3.66	3.36
	2K	—	35	3/1	1	1	1	2	6	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ16GS404-I/ML-ND	5.06	3.99	3.66
	2K	—	35	3/1	1	1	1	2	6	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ16GS404-I/PT-ND	4.84	3.82	3.50
	2K	—	35	3/1	1	1	1	2	8	9-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	High	44-QFN	DSPIC33FJ16MC304-H/ML-ND ***NEW!***	6.28	4.92	4.51
	2K	—	35	3/1	1	1	1	2	8	9-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	High	44-TQFP	DSPIC33FJ16MC304-H/PT-ND ***NEW!***	6.12	4.81	4.41
	2K	—	21	3/1	1	1	1	2	8	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ16GS502-I/MM-ND	5.50	4.34	3.98
	2K	—	21	3/1	1	1	1	2	8	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ16GS502-I/SO-ND	5.32	4.18	3.83
	2K	—	21	3/1	1	1	1	2	8	8-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ16GS502-I/SP-ND	5.56	4.37	4.01
	2K	—	35	3/1	1	1	1	2	8	12-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ16GS504-I/ML-ND	6.20	4.88	4.47
	2K	—	35	3/1	1	1	1	2	8	12-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ16GS504-I/PT-ND	5.98	4.70	4.31
32K	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ32GP202-E/MM-ND	5.26	4.14	3.80
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ32GP202-I/MM-ND	4.80	3.78	3.46
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ32GP202-E/SO-ND	4.94	3.88	3.56
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ32GP202-I/SO-ND	4.50	3.53	3.23
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP .3"	DSPIC33FJ32GP202-E/SP-ND	5.18	4.07	3.73
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit, 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3"	DSPIC33FJ32GP202-I/SP-ND	4.74	3.72	3.41
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ32MC202-E/MM-ND	5.18	4.09	3.75
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ32MC202-I/MM-ND	4.72	3.72	3.41
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ32MC202-E/SO-ND	5.08	3.99	3.65
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ32MC202-I/SO-ND	4.62	3.62	3.32
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP .3"	DSPIC33FJ32MC202-E/SP-ND	5.32	4.18	3.83
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit, 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3"	DSPIC33FJ32MC202-I/SP-ND	4.86	3.82	3.50
	2K	—	21	3/1	1	1	1	2	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-QFN	DSPIC33FJ32MC202-H/MM-ND ***NEW!***	6.24	4.90	4.49
	2K	—	21	3/1	1	1	1	2	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-SOIC	DSPIC33FJ32MC202-H/SO-ND ***NEW!***	6.10	4.78	4.38
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit, 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ32GP204-I/ML-ND	4.82	3.78	3.46
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit, 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ32GP204-E/PT-ND	5.14	4.03	3.69
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit, 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ32GP204-I/PT-ND	4.66	3.66	3.36
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ32MC204-E/ML-ND	5.46	4.29	3.93
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ32MC204-I/ML-ND	4.98	3.91	3.59
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ32MC204-E/PT-ND	5.32	4.18	3.83
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit, 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ32MC204-I/PT-ND	4.84	3.80	3.48
	2K	—	35	3/1	1	1	1	2	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-QFN	DSPIC33FJ32MC204-H/ML-ND ***NEW!***	6.54	5.13	4.70
	2K	—	35	3/1	1	1	1	2	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-TQFP	DSPIC33FJ32MC204-H/PT-ND ***NEW!***	6.38	5.01	4.59
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ32GP302-E/MM-ND	5.46	4.29	3.93
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ32GP302-I/MM-ND	4.98	3.91	3.59
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ32GP302-E/SO-ND	5.32	4.18	3.83
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ32GP302-I/SO-ND	4.84	3.80	3.48
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SPDIP	DSPIC33FJ32GP302-E/SP-ND	5.56	4.37	4.01
	4K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SPDIP	DSPIC33FJ32GP302-I/SP-ND	5.08	3.99	3.66
	4K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ32MC302-E/MM-ND	5.68	4.46	4.09
	4K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.5	Ind.	28-QFN	DSPIC33FJ32MC302-I/MM-ND	5.18	4.07	3.73
	4K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ32MC302-E/SO-ND	5.54	4.35	3.98
	4K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ32MC302-I/SO-ND	5.04	3.95	3.62
	4K	—	21	3/1	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SPDIP	DSPIC33FJ32MC302-E/SP-ND	5.78	4.54	4.16
	4K	—	21	3/1	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SPDIP	DSPIC33FJ32MC302-I/SP-ND	5.28	4.14	3.80
	4K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ32GP304-E/ML-ND	5.96	4.67	4.28
	4K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ32GP304-I/ML-ND	5.42	4.26	3.90
	4K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ32GP304-E/PT-ND	5.80	4.56	4.18
	4K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ32GP304-I/PT-ND	5.28	4.14	3.80
	4K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ32MC304-E/ML-ND	6.16	4.84	4.44
	4K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ32MC304-I/ML-ND	5.62	4.41	4.05
	4K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ32MC304-E/PT-ND	6.02	4.73	4.33
	4K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ32MC304-I/PT-ND	5.48	4.30	3.94
64K	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ64GP202-E/MM-ND	6.16	4.84	4.44
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ64GP202-I/MM-ND	5.62	4.41	4.05
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SPDIP	DSPIC33FJ64GP202-E/SP-ND	6.26	4.92	4.51
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SPDIP	DSPIC33FJ64GP202-I/SP-ND	5.72	4.49	4.12
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ64GP202-E/SO-ND	6.02	4.73	4.33
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ64GP202-I/SO-ND	5.48	4.30	3.94
	8K	—	21	5/2	2	1	2	8	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ64MC202-E/MM-ND	6.50	5.10	4.67
	8K	—	21	5/2	2	1	2	8	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ64MC202-I/MM-ND	5.92	4.64	4.26
	8K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ64MC202-E/SP-ND	6.60	5.17	4.74
	8K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ64MC202-I/SP-ND	6.02	4.72	4.33
	8K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ64MC202-E/SO-ND	6.34	4.98	4.57
	8K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ64MC202-I/SO-ND	5.76	4.53	4.15
	8K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ64GP204-E/ML-ND	6.50	5.10	4.67
	8K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ64GP204-I/ML-ND	5.92	4.64	4.26
	8K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ64GP204-E/PT-ND	6.34	4.98	4.57
	8K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ64GP204-I/PT-ND	5.76	4.53	4.15
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ64MC204-E/ML-ND	6.68	5.25	4.81
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ64MC204-I/ML-ND	6.08	4.78	4.38

***Note:* Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications) *(Continued)*

16-bit dsPIC DSCs

dsPIC33F Devices, 40 MIPs *(Cont.)*

Memory Size																	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 16/32-bit	UART	I²C™	SPI™	Output Comp/ Std. PWM	Motor Control PWM	A/D	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	10	25
64K	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ64MC204-E/PT-ND	6.54	5.13	4.70
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ64MC204-I/PT-ND	5.94	4.66	4.28
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP206-I/PT-ND	5.94	4.66	4.28
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ64GP206A-I/MR-ND ***NEW!***	6.08	4.78	4.38
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP206A-I/PT-ND ***NEW!***	5.94	4.66	4.28
	8K	—	53	9/—	2	2	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64MC506-I/PT-ND	6.72	5.28	4.84
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ64MC506A-I/MR-ND ***NEW!***	6.88	5.40	4.95
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64MC506A-I/PT-ND ***NEW!***	6.72	5.28	4.84
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-QFN	DSPIC33FJ64MC506A-H/MR-ND ***NEW!***	9.02	7.09	6.50
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-TQFP	DSPIC33FJ64MC506A-H/PT-ND ***NEW!***	8.88	6.97	6.39
	8K	—	69	9/—	2	2	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64MC508-I/PT-ND	7.26	5.70	5.23
	8K	—	69	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64MC508A-I/PT-ND ***NEW!***	7.26	5.70	5.23
	8K	—	85	9/4	2	2	2	8	8	24-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64MC510A-I/PF-ND ***NEW!***	8.20	6.44	5.90
	8K	—	85	9/4	2	2	2	8	8	24-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64MC510A-I/PF-ND ***NEW!***	8.20	6.44	5.90
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ64MC706A-I/MR-ND ***NEW!***	7.54	5.92	5.42
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64MC706A-I/PT-ND ***NEW!***	7.38	5.80	5.32
	16K	—	85	9/4	2	2	2	8	8	24-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64MC710A-I/PF-ND ***NEW!***	9.22	7.25	6.64
	16K	—	85	9/4	2	2	2	8	8	24-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64MC710A-I/PT-ND ***NEW!***	8.62	6.76	6.20
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-QFN	DSPIC33FJ64GP802-H/MM-ND ***NEW!***	8.06	6.32	5.80
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-SOIC	DSPIC33FJ64GP802-H/SO-ND ***NEW!***	7.90	6.21	5.69
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-QFN-S	DSPIC33FJ64MC802-H/MM-ND ***NEW!***	8.24	6.48	5.94
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-SOIC	DSPIC33FJ64MC802-H/SO-ND ***NEW!***	8.10	6.36	5.83
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-QFN	DSPIC33FJ64MC804-H/ML-ND ***NEW!***	9.16	7.19	6.59
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-TQFP	DSPIC33FJ64MC804-H/PT-ND ***NEW!***	9.00	7.07	6.48
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP306-I/PT-ND	6.18	4.86	4.45
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ64GP306A-I/MR-ND ***NEW!***	6.34	4.97	4.56
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP306A-I/PT-ND ***NEW!***	6.18	4.86	4.45
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP310-I/PF-ND	7.60	5.97	5.48
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP310A-I/PF-ND ***NEW!***	7.60	5.97	5.48
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP310A-I/PT-ND ***NEW!***	7.00	5.49	5.04
	16K	—	53	9/—	2	2	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP706-I/PT-ND	7.26	5.70	5.23
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ64GP706A-I/MR-ND ***NEW!***	7.42	5.82	5.34
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP706A-I/PT-ND ***NEW!***	7.26	5.70	5.23
	16K	—	69	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64GP708-I/PT-ND	7.78	6.11	5.60
	16k	—	69	9/4	2	2	2	8	—	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64GP708A-I/PT-ND ***NEW!***	7.78	6.11	5.60
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP710-I/PF-ND	8.68	6.82	6.25
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP710A-I/PF-ND ***NEW!***	8.68	6.82	6.25
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP710A-I/PT-ND ***NEW!***	8.08	6.34	5.81
	16K	—	85	9/—	2	2	2	8	8	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64MC710-I/PF-ND	9.22	7.25	6.64
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ64GP802-E/MM-ND	6.74	5.29	4.85
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ64GP802-I/MM-ND	6.14	4.82	4.42
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ64GP802-E/SO-ND	6.58	5.17	4.74
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ64GP802-I/SO-ND	5.98	4.70	4.31
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ64GP802-E/SP-ND	6.84	5.37	4.92
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ64GP802-I/SP-ND	6.24	4.90	4.49
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ64MC802-E/MM-ND	6.90	5.42	4.96
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ64MC802-I/MM-ND	6.28	4.93	4.52
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ64MC802-E/SO-ND	6.76	5.30	4.86
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ64MC802-I/SO-ND	6.14	4.82	4.42
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ64MC802-E/SP-ND	7.00	5.49	5.04
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ64MC802-I/SP-ND	6.38	5.01	4.59
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ64GP804-E/ML-ND	7.20	5.65	5.18
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ64GP804-I/ML-ND	6.56	5.15	4.72
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ64GP804-E/PT-ND	7.04	5.53	5.07
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ64GP804-I/PT-ND	6.40	5.03	4.61
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ64MC804-E/ML-ND	7.66	6.01	5.51
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ64MC804-I/ML-ND	6.98	5.47	5.02
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ64MC804-E/PT-ND	7.50	5.89	5.40
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ64MC804-I/PT-ND	6.82	5.36	4.91
128K	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ128GP202-E/MM-ND	6.78	5.33	4.89
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ128GP202-I/MM-ND	6.18	4.86	4.45
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ128GP202-E/SO-ND	6.64	5.22	4.78
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ128GP202-I/SO-ND	6.04	4.74	4.35
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ128GP202-E/SP-ND	6.88	5.41	4.96
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ128GP202-I/SP-ND	6.28	4.93	4.52
	8K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ128MC202-E/MM-ND	7.04	5.52	5.06
	8K	—	21	5/2	2	1	2	4	8	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ128MC202-I/MM-ND	6.40	5.03	4.61
	8K	—	21	5/2	2	1	2	4	8	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ128MC202-E/SO-ND	6.88	5.41	4.96
	8K	—	21	5/2	2	1	2	4	8	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ128MC202-I/SO-ND	6.26	4.91	4.51
	8K	—	21	5/2	2	1	2	4	8	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ128MC202-E/SP-ND	7.14	5.60	5.13
	8K	—	21	5/2	2	1	2	4	8	10-ch. 12-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ128MC202-I/SP-ND	6.50	5.11	4.68
	8K	—	35	5/2	2	1	2	4	8	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ128GP204-E/ML-ND	7.06	5.54	5.08
	8K	—	35	5/2	2	1	2	4	8	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ128GP204-I/ML-ND	6.44	5.05	4.63
	8K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ128GP204-E/PT-ND	6.92	5.43	4.98
	8K	—	44	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ128GP204-I/PT-ND	6.28	4.93	4.52
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ128MC204-E/ML-ND	7.24	5.69	5.22
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ128MC204-I/ML-ND	6.60	5.18	4.75

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

(Continued)

16-bit dsPIC DSCs

dsPIC33F Devices, 40 MIPs *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	Output Comp/ Std. PWM	Motor Control PWM	A/D	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes															1	10	25
128K	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ128MC204-E/PT-ND	7.10	5.58	5.11
	8K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ128MC204-I/PT-ND	6.46	5.07	4.65
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP206-I/PT-ND	6.36	4.99	4.58
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ128GP206A-I/MR-ND ***NEW!***	6.50	5.11	4.68
	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP206A-I/PT-ND ***NEW!***	6.36	4.99	4.58
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-QFN	DSPIC33FJ128MC506A-H/MR-ND ***NEW!***	9.64	7.57	6.94
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-TQFP	DSPIC33FJ128MC506A-H/PT-ND ***NEW!***	9.50	7.45	6.83
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ128MC506A-I/MR-ND ***NEW!***	7.34	5.76	5.28
	8K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC506A-I/PT-ND ***NEW!***	7.20	5.65	5.18
	8K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit, 16-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC506-I/PT-ND	7.20	5.65	5.18
	8K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC510A-I/PF-ND ***NEW!***	8.66	6.80	6.24
	8K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC510A-I/PT-ND ***NEW!***	8.06	6.32	5.79
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-QFN-S	DSPIC33FJ128MC802-H/MM-ND ***NEW!***	9.00	7.06	6.47
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	28-SOIC	DSPIC33FJ128MC802-H/SO-ND ***NEW!***	8.84	6.95	6.37
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-QFN	DSPIC33FJ128MC804-H/ML-ND ***NEW!***	9.94	7.80	7.15
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	44-TQFP	DSPIC33FJ128MC804-H/PT-ND ***NEW!***	9.78	7.68	7.04
	16K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP306-I/PT-ND	6.66	5.22	4.79
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ128GP306A-I/MR-ND ***NEW!***	6.80	5.34	4.89
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP306A-I/PT-ND ***NEW!***	6.66	5.22	4.79
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP310-I/PF-ND	8.08	6.34	5.81
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP310A-I/PF-ND ***NEW!***	8.08	6.34	5.81
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP310A-I/PT-ND ***NEW!***	7.46	5.86	5.37
	16K	—	53	9/—	2	2	2	8	—	18-ch. 12-bit, 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP706-I/PT-ND	7.70	6.05	5.55
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-QFN	DSPIC33FJ128GP706A-I/MR-ND ***NEW!***	7.86	6.17	5.65
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP706A-I/PT-ND ***NEW!***	7.70	6.05	5.55
	16K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit, 16-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC706-I/PT-ND	7.88	6.19	5.67
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.3	Ind.	64-QFN	DSPIC33FJ128MC706A-I/MR-ND ***NEW!***	8.02	6.30	5.78
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.3	Ind.	64-TQFP	DSPIC33FJ128MC706A-I/PT-ND ***NEW!***	7.88	6.19	5.67
	16K	—	69	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128GP708-I/PT-ND	8.22	6.46	5.92
	16K	—	69	9/4	2	2	2	8	—	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128GP708A-I/PT-ND ***NEW!***	8.22	6.46	5.92
	16K	—	69	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128MC708-I/PT-ND	8.76	6.88	6.31
	16K	—	69	9/4	2	2	2	8	8	18-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128MC708A-I/PT-ND ***NEW!***	8.76	6.88	6.31
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP710-I/PF-ND	9.14	7.17	6.57
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP710-I/PT-ND	8.52	6.69	6.13
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP710A-I/PF-ND ***NEW!***	9.14	7.17	6.57
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP710A-I/PT-ND ***NEW!***	8.52	6.69	6.13
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC710-I/PF-ND	9.70	7.61	6.98
	16K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC710A-I/PF-ND ***NEW!***	9.70	7.61	6.98
	16K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC710A-I/PT-ND ***NEW!***	9.08	7.13	6.54
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ128GP802-E/MM-ND	7.32	5.75	5.28
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ128GP802-I/MM-ND	6.68	5.24	4.81
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ128GP802-E/SO-ND	7.18	5.64	5.17
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ128GP802-I/SO-ND	6.52	5.13	4.70
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ128GP802-E/SP-ND	7.42	5.83	5.35
	16K	—	21	5/2	2	1	2	4	—	10-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ128GP802-I/SP-ND	6.78	5.32	4.88
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN	DSPIC33FJ128MC802-E/MM-ND	7.52	5.90	5.41
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ128MC802-I/MM-ND	6.84	5.38	4.93
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-SOIC	DSPIC33FJ128MC802-E/SO-ND	7.38	5.79	5.31
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC	DSPIC33FJ128MC802-I/SO-ND	6.70	5.26	4.82
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-DIP	DSPIC33FJ128MC802-E/SP-ND	7.62	5.98	5.48
	16K	—	21	5/2	2	1	2	4	8	6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-DIP	DSPIC33FJ128MC802-I/SP-ND	6.94	5.45	5.00
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ128GP804-E/ML-ND	7.78	6.12	5.61
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ128GP804-I/ML-ND	7.10	5.57	5.11
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ128GP804-E/PT-ND	7.64	6.00	5.50
	16K	—	35	5/2	2	1	2	4	—	13-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ128GP804-I/PT-ND	6.94	5.45	5.00
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	DSPIC33FJ128MC804-E/ML-ND	8.30	6.52	5.98
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN	DSPIC33FJ128MC804-I/ML-ND	7.56	5.94	5.44
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	DSPIC33FJ128MC804-E/PT-ND	8.16	6.40	5.87
	16K	—	35	5/2	2	1	2	4	8	9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-TQFP	DSPIC33FJ128MC804-I/PT-ND	7.42	5.82	5.34
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.3	High	64-QFN	DSPIC33FJ128MC706A-H/MR-ND ***NEW!***	10.54	8.28	7.59
	16K	—	53	9/4	2	2	2	8	8	16-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.3	High	64-TQFP	DSPIC33FJ128MC706A-H/PT-ND ***NEW!***	10.40	8.17	7.49
	16K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	100-TQFP	DSPIC33FJ128MC710A-H/PF-ND ***NEW!***	12.60	9.89	9.07
	16K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	100-TQFP	DSPIC33FJ128MC710A-H/PT-ND ***NEW!***	11.98	9.41	8.63
256K	16K	—	53	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ256GP506-I/PT-ND	7.36	5.78	5.30
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-QFN	DSPIC33FJ256GP506A-H/MR-ND ***NEW!***	9.86	7.75	7.10
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	64-TQFP	DSPIC33FJ256GP506A-H/PT-ND ***NEW!***	9.72	7.63	7.00
	16K	—	85	9/—	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP510-I/PF-ND	8.78	6.90	6.32
	16K	—	85	9/—	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP510-I/PT-ND	8.18	6.42	5.88
	16K	—	85	9/—	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC510-I/PF-ND	9.32	7.32	6.71
	16K	—	85	9/—	2	2	2	8	—	32-ch. 12-bit, 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC510-I/PT-ND	8.72	6.84	6.27
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP710-I/PF-ND	9.94	7.81	7.16
	16K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP710-I/PT-ND	9.32	7.32	6.71
	30K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC710-I/PF-ND	10.56	8.29	7.60
	30K	—	85	9/—	2	2	2	8	—	24-ch. 12-bit, 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC710-I/PT-ND	9.94	7.81	7.16
	30K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	100-TQFP	DSPIC33FJ256MC710A-H/PF-ND ***NEW!***	13.74	10.79	9.89
	30K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	High	100-TQFP	DSPIC33FJ256MC710A-H/PT-ND ***NEW!***	13.12	10.30	9.44

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

Extreme Low Power Microcontrollers

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper - ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
2K	128	—	25	2/1	1 (AUSART), 1 (EUSART)	1	1	2	11-ch. 8 bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F722-I/MV-ND✔	2.04	1.60	1.47
	256	256	16	2/1	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-QFN	PIC16F1826-I/ML-ND✔	1.94	1.52	1.40
	256	256	16	2/1	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F1826-I/MV-ND✔	1.80	1.52	1.39
	256	256	16	2/1	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	18-DIP	PIC16F1826-I/P-ND✔	1.82	1.43	1.31
	256	256	16	2/1	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	18-SOIC	PIC16F1826-I/SO-ND✔	1.70	1.33	1.22
	256	256	16	2/1	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	20-SSOP	PIC16F1826-I/SS-ND✔	1.70	1.33	1.22
4K	192	—	25	2/1	1 (AUSART), 1 (EUSART)	1	1	2	11-ch. 8 bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F723-I/MV-ND✔	2.26	1.79	1.64
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-QFN	PIC16F1827-I/ML-ND✔	2.06	1.62	1.48
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F1827-I/MV-ND✔	1.92	1.62	1.48
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	18-DIP	PIC16F1827-I/P-ND✔	1.94	1.52	1.40
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	18-SOIC	PIC16F1827-I/SO-ND✔	1.82	1.43	1.31
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	20-SSOP	PIC16F1827-I/SS-ND✔	1.82	1.43	1.31
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-QFN	PIC16LF1827-I/ML-ND✔	2.06	1.62	1.48
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-UQFN	PIC16LF1827-I/MV-ND✔	1.92	1.62	1.48
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	18-DIP	PIC16LF1827-I/P-ND✔	1.94	1.52	1.40
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	18-SOIC	PIC16LF1827-I/SO-ND✔	1.82	1.43	1.31
	384	256	16	4/1	1 (AUSART), 1 (EUSART)	2	2	2	12-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SSOP	PIC16LF1827-I/SS-ND✔	1.82	1.43	1.31
	256	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-QFN	PIC16LF1933-I/ML-ND✔	2.36	1.85	1.70
	256	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SOIC	PIC16LF1933-I/SO-ND✔	2.20	1.73	1.59
	256	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SDIP	PIC16LF1933-I/SP-ND✔	2.46	1.93	1.77
	256	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SSOP	PIC16LF1933-I/SS-ND✔	2.16	1.70	1.55
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	44-QFN	PIC16F1934-I/ML-ND✔	2.72	2.14	1.96
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	40-PDIP	PIC16F1934-I/P-ND✔	2.82	2.22	2.03
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	44-TQFP	PIC16F1934-I/PT-ND✔	2.58	2.02	1.86
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	44-QFN	PIC16LF1934-I/ML-ND✔	2.72	2.14	1.96
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	40-PDIP	PIC16LF1934-I/P-ND✔	2.82	2.22	2.03
	256	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	44-TQFP	PIC16LF1934-I/PT-ND✔	2.58	2.02	1.86
	256	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-QFN	PIC18LF13K22-I/ML-ND✔	2.54	2.00	1.83
	256	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-PDIP	PIC18LF13K22-I/P-ND✔	2.76	2.17	1.99
	256	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-SOIC	PIC18LF13K22-I/SO-ND✔	2.58	2.02	1.86
	256	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-SSOP	PIC18LF13K22-I/SS-ND✔	2.34	1.83	1.68
	512	256	25	1/3	1 (AUSART), 1 (EUSART)	1	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-UQFN	PIC18F23K20-I/MV-ND✔	2.36	1.85	1.70
	512	—	12	—/3	1 (UART)	1	1	1	7-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	14-PDIP	PIC24F04KA200-I/P-ND✔	2.20	1.72	1.58
	512	—	12	—/3	1 (UART)	1	1	1	7-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	14-TSSOP	PIC24F04KA200-I/ST-ND✔	2.02	1.58	1.45
	512	—	18	—/3	1 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-QFN	PIC24F04KA201-I/MQ-ND✔	2.34	1.83	1.68
	512	—	18	—/3	1 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-PDIP	PIC24F04KA201-I/P-ND✔	2.62	2.05	1.88
	512	—	18	—/3	1 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SOIC	PIC24F04KA201-I/SO-ND✔	2.34	1.84	1.69
	512	—	18	—/3	1 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SSOP	PIC24F04KA201-I/SS-ND✔	2.18	1.72	1.57
8K	368	—	36	3/1	1 (AUSART), 1 (EUSART)	1	1	2	14-ch. 8-bit	2	16MHz, 31kHz	20	1.8 ~ 3.6	Ind.	44-QFN	PIC16LF707-I/ML-ND✔	3.10	2.43	2.23
	368	—	36	3/1	1 (AUSART), 1 (EUSART)	1	1	2	14-ch. 8-bit	2	16MHz, 31kHz	20	1.8 ~ 3.6	Ind.	40-PDIP	PIC16LF707-I/P-ND✔	3.20	2.51	2.30
	368	—	36	3/1	1 (AUSART), 1 (EUSART)	1	1	2	14-ch. 8-bit	2	16MHz, 31kHz	20	1.8 ~ 3.6	Ind.	44-TQFP	PIC16LF707-I/PT-ND✔	2.94	2.31	2.12
	368	—	25	2/1	1 (AUSART), 1 (EUSART)	1	1	2	11-ch. 8-bit	2	16MHz	20	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F726-I/MV-ND✔	2.52	1.99	1.82
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-QFN	PIC16F1936-I/ML-ND✔	2.48	1.95	1.78
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-SOIC	PIC16F1936-I/SO-ND✔	2.34	1.83	1.68
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-SPDIP	PIC16F1936-I/SP-ND✔	2.58	2.02	1.86
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-SSOP	PIC16F1936-I/SS-ND✔	2.28	1.79	1.64
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	28-UQFN	PIC16F1936-I/MV-ND✔	2.46	1.95	1.78
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-QFN	PIC16LF1936-I/ML-ND✔	2.48	1.95	1.78
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SOIC	PIC16LF1936-I/SO-ND✔	2.34	1.83	1.68
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SPDIP	PIC16LF1936-I/SP-ND✔	2.58	2.02	1.86
	512	256	25	4/1	1 (AUSART), 1 (EUSART)	1	1	3	11-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SSOP	PIC16LF1936-I/SS-ND✔	2.28	1.79	1.64
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	44-QFN	PIC16F1937-I/ML-ND✔	2.84	2.24	2.05
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	40-PDIP	PIC16F1937-I/P-ND✔	2.94	2.31	2.12
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	44-TQFP	PIC16F1937-I/PT-ND✔	2.70	2.12	1.94
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	44-QFN	PIC16LF1937-I/ML-ND✔	2.84	2.24	2.05
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	40-PDIP	PIC16LF1937-I/P-ND✔	2.94	2.31	2.12
	512	256	36	4/1	1 (AUSART), 1 (EUSART)	1	1	3	14-ch. 10-bit	2	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	44-TQFP	PIC16LF1937-I/PT-ND✔	2.70	2.12	1.94
	512	256	53	4/1	2 (AUSART), 2 (EUSART)	2	2	3	17-ch. 10-bit	3	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	64-QFN	PIC16F1946-I/MR-ND✔	3.20	2.52	2.31
	512	256	53	4/1	2 (AUSART), 2 (EUSART)	2	2	3	17-ch. 10-bit	3	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	64-QFN	PIC16LF1946-I/MR-ND✔	3.20	2.52	2.31
	1024	256	53	4/1	2 (AUSART), 2 (EUSART)	2	2	3	17-ch. 10-bit	3	32MHz, 32kHz	32	1.8 ~ 5.5	Ind.	64-QFN	PIC16F1947-I/MR-ND✔	3.32	2.62	2.40
	1024	256	53	4/1	2 (AUSART), 2 (EUSART)	2	2	3	17-ch. 10-bit	3	32MHz, 32kHz	32	1.8 ~ 3.6	Ind.	64-QFN	PIC16LF1947-I/MR-ND✔	3.32	2.62	2.40
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ext.	20-SOIC	PIC18F13K50-I/SO-ND✔	2.74	2.16	1.98
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	1	1	5	9-ch. 10-bit	2	16MHz, 31kHz	48	1.8 ~ 5.5	Ind.	20-QFN	PIC18F13K50-I/MQ-ND✔	2.58	1.86	1.77
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SOIC	PIC18LF13K50-I/SO-ND	2.86	1.87	1.83
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SSOP	PIC18LF13K50-I/SS-ND	2.54	1.66	1.62
	512	256	15	1/3	1 (AUSART), 1 (EUSART)	1	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 3.6	Ind.	20-QFN	PIC18LF13K50-I/MQ-ND✔	2.58	1.86	1.77
	512	256	25	1/3	1 (AUSART), 1 (EUSART)	1	1	2	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-QFN	PIC18F23K20-I/ML-ND	2.36	1.85	1.70
	512	256	25	1/3	1 (AUSART), 1 (EUSART)	1	1	2	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SOIC	PIC18F23K20-I/SO-ND	2.20	1.73	1.59
	512	256	25	1/3	1 (AUSART), 1 (EUSART)	1	1	2	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-DIP	PIC18F23K20-I/SP-ND	2.46	1.93	1.77
	512	256	25	1/3	1 (AUSART), 1 (EUSART)	1	1	2	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F23K20-I/SS-ND	2.16	1.70	1.55
	512	256	36	1/3	1 (AUSART), 1 (EUSART)	1	1	2	13-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	40-DIP	PIC18F43K20-I/P-ND	2.82	2.22	2.03
	512	256	36	1/3	1 (AUSART), 1 (EUSART)	1	1	2	13-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-TQFP	PIC18F43K20-I/PT-ND	2.58	2.02	1.86
	512	256	36	1/3	1 (AUSART), 1 (EUSART)	1	1	1	13-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	44-QFN	PIC18F43K20-I/ML-ND✔	2.72	2.14	1.96
	512	256	26	1/3	1 (AUSART), 1 (EUSART)	1	1	1	10-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	28-UQFN	PIC18F23K20T-I/MVTR-ND‡ ✔	5214.02/3,300		
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 5.5	Ind.	20-QFN	PIC18F14K22-I/ML-ND✔	2.80	2.19	2.01
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 5.5	Ind.	20-PDIP	PIC18F14K22-I/P-ND✔	3.00	2.36	2.16
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 5.5	Ind.	20-SOIC	PIC18F14K22-I/SO-ND✔	2.82	2.22	2.03
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 5.5	Ind.	20-SSOP	PIC18F14K22-I/SS-ND✔	2.58	2.02	1.86
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-QFN	PIC18LF14K22-I/ML-ND✔	2.80	2.19	2.01
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-PDIP	PIC18LF14K22-I/P-ND✔	3.00	2.36	2.16
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-SOIC	PIC18LF14K22-I/SO-ND✔	2.82	2.22	2.03
	512	256	17	1/3	1 (AUSART), 1 (EUSART)	1	1	1	12-ch. 10-bit	2	16MHz, 31kHz	64	1.8 ~ 3.6	Ind.	20-SSOP	PIC18LF14K22-I/SS-ND✔	2.58	2.02	1.86
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-DIP	PIC24F08KA101-I/P-ND	2.94	2.32	2.10
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SOIC	PIC24F08KA101-I/SO-ND	2.78	2.18	1.98
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SSOP	PIC24F08KA101-I/SS-ND	2.54	2.00	1.82

† Cut Tape ‡ Tape and Reel ***✔NEW!***

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Extreme Low Power Microcontrollers *(Cont.)*

Memory Size				Timer/								Clock		Oper -			Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Speed (MHz)	VCC (V)	ating Temp.	Package	Digi-Key Part No.	1	10	25
8K	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-QFN	PIC24F08KA101-I/MQ-ND✔	2.74	2.16	1.96
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-QFN	PIC24F08KA102-I/ML-ND	2.88	2.27	2.06
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SOIC	PIC24F08KA102-I/SO-ND	2.70	2.13	1.93
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-DIP	PIC24F08KA102-I/SP-ND	2.94	2.31	2.10
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SSOP	PIC24F08KA102-I/SS-ND	2.66	2.09	1.90
16K	768	256	15	1/3	1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-DIP	PIC18F14K50-I/P-ND	3.04	2.39	2.19
	768	256	15	1/3	1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SOIC	PIC18F14K50-I/SO-ND	2.98	2.35	2.16
	768	256	15	1/3	1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SSOP	PIC18F14K50-I/SS-ND	2.66	2.10	1.93
	768	256	15	1/3	1 (AUSART), 1 (EUSART)	1	1	5	9-ch. 10-bit	2	16MHz, 31kHz	48	1.8 ~ 5.5	Ind.	20-QFN	PIC18F14K50-I/MQ-ND✔	2.82	2.04	1.94
	768	256	15	1/3	1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 31kHz	48	1.8 ~ 3.6	Ind.	20-DIP	PIC18LF14K50-I/P-ND	3.18	2.08	2.03
	768	256	15	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 31kHz	48	1.8 ~ 5.5	Ind.	20-SOIC	PIC18LF14K50-I/SO-ND	3.12	2.04	1.99
	768	256	15	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 5.5	Ind.	20-SSOP	PIC18LF14K50-I/SS-ND	2.80	1.83	1.79
	768	256	15	1/3	1 (AUSART), 1 (EUSART)	1	1	5	9-ch. 10-bit	2	16MHz, 32kHz	48	1.8 ~ 3.6	Ind.	20-QFN	PIC18LF14K50-I/MQ-ND✔	2.82	2.04	1.94
	768	—	25	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F24J11-I/SP-ND	3.18	2.51	2.30
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-QFN	PIC18F24K20-E/ML-ND	2.72	2.13	1.95
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-QFN	PIC18F24K20-I/ML-ND	2.48	1.95	1.78
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SOIC	PIC18F24K20-E/SO-ND	2.56	2.01	1.85
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SOIC	PIC18F24K20-I/SO-ND	2.34	1.83	1.68
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SDIP	PIC18F24K20-E/SP-ND	2.82	2.21	2.02
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SDIP	PIC18F24K20-I/SP-ND	2.58	2.02	1.86
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SSOP	PIC18F24K20-E/SS-ND	2.52	1.98	1.81
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F24K20-I/SS-ND	2.28	1.79	1.64
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	28-QFN	PIC18F25K22-I/ML-ND✔	3.04	2.39	2.19
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	28-SOIC	PIC18F25K22-I/SO-ND✔	2.90	2.27	2.08
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	28-SDIP	PIC18F25K22-I/SP-ND✔	3.14	2.47	2.26
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	28-SSOP	PIC18F25K22-I/SS-ND✔	2.84	2.24	2.05
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-QFN	PIC18LF25K22-I/ML-ND✔	3.04	2.39	2.19
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SOIC	PIC18LF25K22-I/SO-ND✔	2.90	2.27	2.08
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SDIP	PIC18LF25K22-I/SP-ND✔	3.14	2.47	2.26
	1536	256	25	3/4	2 (AUSART), 2 (EUSART)	2	2	2	17-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18LF25K22-I/SS-ND✔	2.84	2.24	2.05
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	44-QFN	PIC18F45K22-I/ML-ND✔	3.46	2.72	2.49
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	40-PDIP	PIC18F45K22-I/P-ND✔	3.56	2.79	2.56
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 5.5	Ind.	44-TQFP	PIC18F45K22-I/PT-ND✔	3.32	2.60	2.39
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-QFN	PIC18LF45K22-I/ML-ND✔	3.46	2.72	2.49
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	40-PDIP	PIC18LF45K22-I/P-ND✔	3.56	2.79	2.56
	1536	256	36	3/4	2 (AUSART), 2 (EUSART)	2	2	2	28-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-TQFP	PIC18LF45K22-I/PT-ND✔	3.32	2.60	2.39
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-DIP	PIC24F16KA101-I/P-ND	3.06	2.41	2.19
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SOIC	PIC24F16KA101-I/SO-ND	2.88	2.27	2.06
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-SSOP	PIC24F16KA101-I/SS-ND	2.66	2.09	1.90
	1536	512	18	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	20-QFN	PIC24F16KA101-I/MQ-ND✔	2.86	2.25	2.04
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-QFN	PIC24F16KA102-I/ML-ND	3.00	2.36	2.15
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SOIC	PIC24F16KA102-I/SO-ND	2.82	2.22	2.01
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-DIP	PIC24F16KA102-I/SP-ND	3.04	2.40	2.18
	1536	512	24	—/3	2 (UART)	1	1	1	9-ch. 10-bit	2	8MHz, 32kHz	32	1.8 ~ 3.6	Ind.	28-SSOP	PIC24F16KA102-I/SS-ND	2.78	2.18	1.98
	2048	—	35	—/3	1 (UART)	1	1	2	13-ch. 12-bit	2	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-QFN	PIC24HJ16GP304-H/ML-ND✔	5.74	4.52	4.11
	2048	—	35	—/3	1 (UART)	1	1	2	13-ch. 12-bit	2	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-TQFP	PIC24HJ16GP304-H/PT-ND✔	5.62	4.41	4.01
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F24J11-I/ML-ND	3.14	2.47	2.26
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F24J11-I/SO-ND	2.94	2.31	2.12
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F24J11-I/SS-ND	2.88	2.27	2.08
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF24J11-I/ML-ND	3.14	2.47	2.26
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF24J11-I/SO-ND	2.94	2.31	2.12
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF24J11-I/SP-ND	3.18	2.51	2.30
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF24J11-I/SS-ND	2.88	2.27	2.08
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F24J50-I/ML-ND	3.50	2.76	2.53
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F24J50-I/SO-ND	3.30	2.60	2.39
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F24J50-I/SP-ND	3.54	2.79	2.56
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F24J50-I/SS-ND	3.26	2.56	2.35
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF24J50-I/ML-ND	3.50	2.76	2.53
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF24J50-I/SO-ND	3.30	2.60	2.39
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF24J50-I/SP-ND	3.54	2.79	2.56
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF24J50-I/SS-ND	3.26	2.56	2.35
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F44J11-I/ML-ND	3.62	2.85	2.61
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F44J11-I/PT-ND	3.40	2.68	2.46
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF44J11-I/ML-ND	3.62	2.85	2.61
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF44J11-I/PT-ND	3.40	2.68	2.46
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F44J50-I/ML-ND	4.00	3.14	2.88
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F44J50-I/PT-ND	3.78	2.97	2.72
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF44J50-I/ML-ND	4.00	3.14	2.88
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF44J50-I/PT-ND	3.78	2.97	2.72
32K	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-QFN	PIC18F25K20-E/ML-ND	2.84	2.24	2.05
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-QFN	PIC18F25K20-I/ML-ND	2.60	2.04	1.87
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SOIC	PIC18F25K20-E/SO-ND	2.70	2.12	1.94
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SOIC	PIC18F25K20-I/SO-ND	2.46	1.93	1.77
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SDIP	PIC18F25K20-E/SP-ND	2.94	2.31	2.12
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SDIP	PIC18F25K20-I/SP-ND	2.70	2.12	1.94
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ext.	28-SSOP	PIC18F25K20-E/SS-ND	2.66	2.08	1.91
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F25K20-I/SS-ND	2.40	1.89	1.73
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F25K20T-I/SSCT-ND†	2.77	1.94	1.78
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F25K20T-I/SSTR-ND‡	3380.99/2,100		
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	44-QFN	PIC18F45K20-E/ML-ND	3.26	2.55	2.34
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-QFN	PIC18F45K20-I/ML-ND	2.98	2.33	2.14
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	40-DIP	PIC18F45K20-E/P-ND	3.36	2.63	2.41
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	40-DIP	PIC18F45K20-I/P-ND	3.06	2.41	2.21
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ext.	44-TQFP	PIC18F45K20-E/PT-ND	3.10	2.44	2.23

† Cut Tape ‡ Tape and Reel ✔***NEW!***

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

(Continued)

Extreme Low Power Microcontrollers *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Oper - ating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	10	25
32K	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	64	1.8 ~ 3.6	Ind.	44-TQFP	PIC18F45K20-I/PT-ND	2.82	2.22	2.03
	2048	—	21	—/3	1 (UART)	1	1	2	10-ch. 12-bit	—	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-QFN	PIC24HJ32GP202-H/MM-ND✔	5.72	4.50	4.08
	2048	—	21	—/3	1 (UART)	1	1	2	10-ch. 12-bit	—	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-SOIC	PIC24HJ32GP202-H/SO-ND✔	5.58	4.39	3.99
	2048	—	21	—/3	1 (UART)	1	1	2	10-ch. 12-bit	—	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-QFN	PIC24HJ32GP204-H/ML-ND✔	5.94	4.67	4.24
	2048	—	21	—/3	1 (UART)	1	1	2	10-ch. 12-bit	—	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	44-TQFP	PIC24HJ32GP204-H/PT-ND✔	5.80	4.56	4.14
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F25J50-I/ML-ND	3.74	2.95	2.70
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F25J50-I/SO-ND	3.54	2.79	2.56
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F25J50-I/SP-ND	3.80	2.99	2.74
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F25J50-I/SS-ND	3.50	2.76	2.53
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF25J50-I/ML-ND	3.74	2.95	2.70
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF25J50-I/SO-ND	3.54	2.79	2.56
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF25J50-I/SP-ND	3.80	2.99	2.74
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF25J50-I/SS-ND	3.50	2.76	2.53
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F25J11-I/ML-ND	3.38	2.66	2.44
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F25J11-I/SO-ND	3.18	2.51	2.30
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F25J11-I/SP-ND	3.42	2.70	2.47
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F25J11-I/SS-ND	3.14	2.47	2.26
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF25J11-I/ML-ND	3.38	2.66	2.44
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF25J11-I/SO-ND	3.18	2.51	2.30
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF25J11-I/SP-ND	3.42	2.70	2.47
	3800	—	25	2/3	2 (AUSART), 2 (EUSART)	1 MI^{2}C	1	1	10-ch. 10-bit	2	16MHz, 32kHz	64	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF25J11-I/SS-ND	3.14	2.47	2.26
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F45J11-I/ML-ND	3.86	3.05	2.79
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F45J11-I/PT-ND	3.64	2.87	2.63
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF45J11-I/ML-ND	3.86	3.05	2.79
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF45J11-I/PT-ND	3.64	2.87	2.63
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F45J50-I/ML-ND	4.24	3.33	3.06
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F45J50-I/PT-ND	4.02	3.16	2.90
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF45J50-I/ML-ND	4.24	3.33	3.06
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF45J50-I/PT-ND	4.02	3.16	2.90
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ32GA102-I/ML-ND✔	4.10	3.22	2.95
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ32GA102-I/SO-ND✔	3.90	3.06	2.81
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP	PIC24FJ32GA102-I/SP-ND✔	4.14	3.26	2.99
	8192	—	35	—/5	2 (UART)	2	2	5	13-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ32GA104-I/ML-ND✔	4.50	3.53	3.23
	8192	—	35	—/5	2 (UART)	2	2	5	13-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ32GA104-I/PT-ND✔	4.28	3.35	3.07
64K	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F26J11-I/ML-ND	3.86	3.05	2.79
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F26J11-I/SO-ND	3.68	2.89	2.65
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F26J11-I/SP-ND	3.92	3.08	2.83
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F26J11-I/SS-ND	3.62	2.85	2.61
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18F26J50-I/ML-ND	4.24	3.33	3.06
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18F26J50-I/SO-ND	4.04	3.18	2.92
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18F26J50-I/SP-ND	4.28	3.37	3.09
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18F26J50-I/SS-ND	4.00	3.14	2.88
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF26J11-I/ML-ND	3.86	3.05	2.79
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF26J11-I/SO-ND	3.68	2.89	2.65
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF26J11-I/SP-ND	3.92	3.08	2.83
	3800	—	21	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF26J11-I/SS-ND	3.62	2.85	2.61
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-QFN	PIC18LF26J50-I/ML-ND	4.24	3.33	3.06
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SOIC	PIC18LF26J50-I/SO-ND	4.04	3.18	2.92
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-DIP	PIC18LF26J50-I/SP-ND	4.28	3.37	3.09
	3800	—	22	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	10-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	28-SSOP	PIC18LF26J50-I/SS-ND	4.00	3.14	2.88
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F46J11-I/ML-ND	4.36	3.43	3.14
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18F46J50-I/ML-ND	4.72	3.72	3.41
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F46J50-I/PT-ND	4.50	3.55	3.25
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18F46J11-I/PT-ND	4.14	3.26	2.99
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF46J11-I/ML-ND	4.36	3.43	3.14
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF46J11-I/PT-ND	4.14	3.26	2.99
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-QFN	PIC18LF46J50-I/ML-ND	4.72	3.72	3.41
	3800	—	34	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	2	13-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	44-TQFP	PIC18LF46J50-I/PT-ND	4.50	3.55	3.25
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	28-QFN	PIC18F26K20-E/ML-ND	3.38	2.66	2.44
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	28-QFN	PIC18F26K20-I/ML-ND	3.10	2.43	2.23
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	28-SOIC	PIC18F26K20-E/SO-ND	3.24	2.54	2.33
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	28-SOIC	PIC18F26K20-I/SO-ND	2.94	2.31	2.12
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	28-DIP	PIC18F26K20-E/SP-ND	3.48	2.74	2.51
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	28-DIP	PIC18F26K20-I/SP-ND	3.20	2.51	2.30
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	28-SSOP	PIC18F26K20-E/SS-ND	3.20	2.51	2.30
	3936	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	28-SSOP	PIC18F26K20-I/SS-ND	2.90	2.27	2.08
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	44-QFN	PIC18F46K20-E/ML-ND	3.66	2.87	2.63
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	44-QFN	PIC18F46K20-I/ML-ND	3.34	2.62	2.40
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ext.	40-DIP	PIC18F46K20-E/P-ND	3.76	2.95	2.70
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	40-DIP	PIC18F46K20-I/P-ND	3.44	2.70	2.47
	3936	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	16MHz, 32kHz	40	1.8 ~ 3.6	Ind.	44-TQFP	PIC18F46K20-I/PT-ND	3.20	2.51	2.30
	4096	—	21	—/5	2 (UART)	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-QFN	PIC24HJ64GP502-H/MM-ND✔	7.86	6.17	5.66
	4096	—	21	—/5	2 (UART)	1	2	4	10-ch. 12-bit	2	7.37MHz, 512kHz	40	3.0 ~ 3.6	High	28-SOIC	PIC24HJ64GP502-H/SO-ND✔	7.72	6.05	5.55
	8192	—	35	5/—	2 (UART)	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-QFN	PIC24FJ64GA104-I/ML-ND	5.22	4.11	3.76
	8192	—	35	5/—	2 (UART)	2	2	5	13-ch. 10-bit	5	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	44-TQFP	PIC24FJ64GA104-I/PT-ND	5.00	3.93	3.60
	8192	—	21	—/5	2 (UART)	2	2	5	9-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ64GB002-I/ML-ND✔	5.20	4.09	3.75
	8192	—	21	—/5	2 (UART)	2	2	5	9-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ64GB002-I/SO-ND✔	5.00	3.93	3.60
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN	PIC24FJ64GA102-I/ML-ND✔	4.84	3.80	3.48
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-SOIC	PIC24FJ64GA102-I/SO-ND✔	4.64	3.64	3.34
	8192	—	21	—/5	2 (UART)	2	2	5	10-ch. 10-bit	3	8MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-DIP	PIC24FJ64GA102-I/SP-ND✔	4.88	3.84	3.52
	8192	—	53	—/9	2 (UART)	2	2	8	18-ch. 12-bit	—	7.37MHz, 512kHz	40	3.0 ~ 3.6	Ind.	64-QFN	PIC24HJ64GP206A-I/MR-ND✔	6.08	4.78	4.38

† Cut Tape ‡ Tape and Reel ***✔NEW!***

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) • High: Varies (See Manufacturer's data sheet for exact specifications)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Programmers, In-Circuit Debuggers, and In-Circuit Emulators

Description	Digi-Key Part No.	Price Each
ICD3 In-Circuit Debugger	DV164035-ND	189.99
PICkit™ 2 Starter Kit	DV164120-ND◆	49.99
PICkit™ 2 Debug Express	DV164121-ND◆	49.99
PICkit™ 3 Debug Express	DV164131-ND	69.99
F1 Evaluation Kit	DV164132-ND◆✓	69.99
PICSTART® PLUS	DV003001-ND◆	199.99
PM3	DV007004-ND◆	895.00
PICkit™ 2 MCU Programmer	PG164120-ND◆	34.99
PICkit™ 3 In-Circuit Debugger	PG164130-ND◆✓	44.95
ICE 2000 POD	ICE2000-ND	1000.00
Accessories		
PIC10F Cap Touch Demo Board	AC103003-ND◆	11.00
PIC10F Hobby Kit	AC163021-ND◆	12.00
SOT23-6 Adapter	AC163020-ND◆	45.00
ICSP Cable for MPLAB PM3	AC002021-ND◆	21.00
Power Supply	AC162039-ND◆	24.00
Power Supply with Cable	AC162048-ND◆	29.99
SOT23-6 to 8-DIP Adapter	AC163020-2-ND	60.00
PICDEM™ Z 2.46GHz Daughter Card	AC163027-4-ND◆	39.99
Jumper Wire Kit Multi Color 5”	AC163029-ND◆	8.99
RJ-11 to ICSP Adapter	AC164110-ND◆	9.99
PM3 ICSP to RJ-11 Adapter	AC164111-ND◆	18.00
ZENA Network Analyzer	DM183023-ND◆	129.99
PIC16F/PIC24F Evaluation Kit	DM183026-ND◆	84.95
PICDEM™ Inductive Touch Development Kit	DM183027-ND◆✓	69.99
KEELOQ 3 Development Kit	DM303007-ND◆	159.99
Demo Board LCD GPIO	GPIODM-KPLCD-ND	55.00
PIC16F1937 Plug-in Module	MA160012-ND◆✓	25.00
PIC18F25J1028L	MA180011-ND	25.00
PIC18LF25J1028L	MA180012-ND◆	25.00
PIC18F45J10 44L	MA180013-ND◆	25.00
PIC18LF45J10 44L	MA180014-ND◆	25.00
PIC18F87J10	MA180015-ND◆	25.00
PICDEM™ HPC Blank	MA180016-ND◆	18.00
PIC18F85J11 PIM for HPC	MA180018-ND◆	25.00
PICDEM™ LCD 2 PIM Pack	MA180019-ND◆	40.00
PIC18F87J50 Full Speed USB	MA180021-ND◆	40.00
PIC18F85J90 PIM	MA180022-ND◆	25.00
PIC18F46J11 PIM	MA180023-ND◆	25.00
PIC18F46J50 Full Speed USB PIM	MA180024-ND◆	45.00
PIC18F87J90 PIM	MA180025-ND◆	25.00
PIC18F45K20 Module Plug-in 44-pin TQFP	MA180026-ND◆✓	25.00
PIC24F 100P to 100P TQFP Plug-in Module	MA240011-ND◆✓	25.00
PIC24H 100P	MA240012-ND◆	25.00
PIC24 44P PIM	MA240013-ND◆	25.00
PIC24 100P PIM - OTG	MA240014-ND◆	25.00
General Purpose PIM for 24F256GA	MA240015-ND◆	25.00
PIC24HJ128GP504 100 PIN PIM	MA240016-ND◆	25.00
PIC24HJ Graphics Plug-in Module	MA240016-2-ND◆✓	25.00
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dsPIC30F 80L	MA300014-ND◆	25.00
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PIC32 100P PIM	MA320001-ND◆	25.00
PIC32 100P PIM - OTG	MA320002-ND◆	25.00
dsPIC33F GP 100P	MA330011-ND◆	25.00
dsPIC33F GP 84P	MA330012-ND◆	25.00
dsPIC33F MC 100P	MA330013-ND◆	25.00
dsPIC33 MC 100P	MA330014-ND◆	25.00
dsPIC33 GP 100P	MA330015-ND◆	25.00
dsPIC33 GP 100P	MA330016-ND◆	25.00
dsPIC33 MC 100P	MA330017-ND◆	25.00
PIM DSPIC33F GP 44P ~ 100P QFN	MA330018-ND◆	25.00
PIM DSPIC33F MC 44P ~ 100P QFN	MA330019-ND◆	25.00
dsPIC33F Graphics Plug-in Module	MA330019-2-ND◆✓	25.00
dsPIC33F Module Plug-In 44-QFN	MA330020-ND◆	25.00
PIC32 Module Plug-In CAN USB	MA320003-ND◆✓	25.00
PIC24FJ64GB004 Module Plug-In	MA240019-ND◆✓	25.00
Module Plug-In	MA240020-ND◆✓	25.00
Evaluation Board 8-SOIC	SOIC8EV-ND◆	10.00
Cable Tag-Connect In-Circuit Leg	TC2030-MCP-ND◆✓	33.70
Bartek Explorer 16 Prototyping Extension Board, Model PTB1	TPDPTB1-ND◆✓	146.25
MPLAB® ICD2 Accessories — RoHS Compliant		
Universal Programming Module	AC162049-ND	39.99
28/40-Pin MPLAB® ICD2 Header	AC162051-ND	19.99
64/80-Pin MPLAB® ICD2 Header	AC162079-ND	50.00
8/14-Pin MPLAB® ICD2 Header	AC162083-ND	35.00
68/84-Pin MPLAB® ICD2 Header	AC162087-ND	50.00
MPLAB ICD2 VPP Voltage Limiter	AC164112-ND	9.99
MPLAB PM3 Programming Adapter	AC164114-ND✓	29.99
ICD2 Header Interfaces		
ICD2 Header for PIC12F629/675	AC162050-ND◆	25.00
ICD2 Header for PIC16F630/676	AC162052-ND◆	25.00
ICD2 Header for PIC16F627A/628A/648A	AC162053-ND◆	35.00
ICD2 Header for PIC16F716	AC162054-ND◆	35.00
ICD2 Header for PIC16F684	AC162055-ND◆	25.00
ICD2 Header for PIC16F688	AC162056-ND◆	25.00
ICD2 Header for PIC12F635, PIC16F636	AC162057-ND◆	25.00
ICD2 Header for PIC12F683	AC162058-ND◆	25.00
ICD2 Header for PIC10F, PIC12F508/9, PIC16F505	AC162059-ND◆	25.00
ICD2 Header for PIC16F785/HV785	AC162060-ND◆	35.00
ICD2 Header for PIC16F631/ 677/685/687/689/690	AC162061-ND◆	35.00
ICD2 Header for PIC18Fx5J1x	AC162062-ND	50.00
MPLAB® ICD2, 64/80/100	AC162064-ND◆	35.00
ICD2 Header for PIC16F639	AC162066-ND	35.00
ICD2 Header PIC18F45J10	AC162067-ND	35.00
ICD2 Breadboard Cable	AC162069-ND◆	14.99
ICD2 Header for PIC10F, PIC12F508/9	AC162070-ND◆	25.00
ICD2 Header for PIC18F45J10	AC162074-ND◆	25.00
ICD2 14/28P Header Interface	AC162078-ND◆	50.00
MPLAB ICD2 28P Header 24FJ64GA004	AC162088-ND◆	50.00
MPLAB ICD2 8/14L Header PIC16F526	AC162096-ND◆	25.00
Processor Extension PAK for 24FJ128GA010-ICE	AC244022-ND◆	70.00
MPLAB® ICE 2000 Accessories		
ICE 2000 Power Supply	ACICE0103-ND◆	50.00
ICE 2000 Logic Probes	ACICE0104-ND	60.00
ICE 2000 Parallel Cable	ACICE0105-ND	40.00
ICE 2000 Tripod	ACICE0106-ND	30.00
ICE 2000 Flex Cable	ACICE0107-ND	55.00
ICE 2000 USB Parallel Adapter	ACICE0108-ND◆	99.99
MPLAB® ICE 4000 Accessories		
Adapter Plug, 20P, 300 mil.	ACICE0203-ND◆	20.00
Adapter Plug, 28P, 300 mil.	ACICE0204-ND◆	30.00
Adapter Plug, 28P, 600 mil.	ACICE0205-ND	30.00
Adapter Plug, 40P, 600 mil.	ACICE0206-ND	40.00
PICSTART® Accessories — RoHS Compliant		
28-QFN Adapter	AC164031-ND	159.99
8-DFN Adapter	AC164032-ND	159.99
28-QFN Adapter	AC164033-ND	159.99
PICSTART® Firmware Module	UK003010-ND	29.99
PICkit™ Accessories		
PICkit™ 1 Firmware Upgrade Kit	UK164101-ND◆	5.00
rfPIC™ TX Module (433.92 MHz)	AC164101-ND◆	30.00
rfPIC™ TX Module (315 MHz)	AC164102-ND◆	30.00
rfRXD RCVR Module (315 MHz)	AC164104-ND◆	25.00
PICtail™ Daughter Board	AC164120-ND◆	25.00
PICtail™ Daughter Board	AC164121-ND◆	39.99
PICtail™ Daughter Board	AC164122-ND◆	37.99
Ethernet PICtail™ Daughter Board	AC164123-ND◆	39.99
PICtail™ Daughter Board	AC164124-ND	25.00
Speech Play Back PICtail™	AC164125-ND◆	45.00
PICtail™ Plus Prototype Daughter Board	AC164126-ND◆	20.00
PICtail™ Plus Daughter Board with 3.2 Display Kit	AC164127-3-ND◆	154.99
PICtail™ Graphic Display Truly 3.2 240x320 Board	AC164127-4-ND◆	99.99
PICtail™ Plus SSD1926 Board	AC164127-5-ND◆	69.99
Motor Control Interface PICtail™ Plus Daughter Board	AC164128-ND◆	125.00
PICtail™ Plus USB Daughter Board	AC164131-ND◆	60.00
Board Daughter DSPIC Pictail Plus	AC164133-ND◆	89.99
PICtail™/PICtail™ Plus Daughter Board	AC164134-1-ND◆✓	24.99
PICtail™ Plus Daughter Board	AC164135-ND◆	49.99
Serial EEPROM PIM PICtail™ Pack	AC243003-ND◆	35.00
PICkit™ Serial I2C Demo Board	PKSERIAL-I2C1-ND◆	25.00
PICkit™ Serial SPI Demo Board	PKSERIAL-SPI1-ND◆	35.00
REAL ICE™ Accessories — RoHS Compliant		
MPLAB REAL ICE™ ICSP Driver Board	AC244001-ND	70.00
REAL ICE™ Performance Pak	AC244002-ND	159.98
MPLAB REAL ICE™ Loopback Test Board	AC244003-ND	9.99
MPLAB REAL ICE™ Isolator	AC244005-ND✓	299.99
MPLAB REAL ICE™ AC Isolation Kit	AC244005-2-ND✓	429.99
REAL ICE™ Probe Kit	DV244005-ND	499.98
REAL ICE™ Trace Kit	AC244006-ND	79.99
REAL ICE™ Processor Extension Pak	AC244023-ND	50.00
REAL ICE™ Processor Extension Pak for PIC18LFxK50	AC244024-ND✓	50.00
REAL ICE™ Processor Extension Pak for PIC24F16KA102 and PIC24F04KA201	AC244028-ND✓	50.00

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Processor Modules

Digi-Key Part No.	Price Each
PCM12XA0-ND	445.00
PCM12XC0-ND◆	445.00
PCM16XA0-ND	445.00
PCM16XB1-ND	445.00
PCM16XC0-ND	445.00
PCM16XD0-ND	445.00
PCM16XF0-ND	445.00
PCM16XG0-ND	445.00
PCM16XH1-ND◆	445.00
PCM16XH2-ND◆	445.00
PCM16XJ0-ND	445.00
PCM16XK1-ND◆	445.00
PCM16XL0-ND	445.00
PCM16XN0-ND	445.00
PCM16XP1-ND◆	445.00
PCM16XQ1-ND	445.00
PCM16XR0-ND	445.00
PCM16XR1-ND	445.00
PCM16XT0-ND	445.00
PCM16XV0-ND	445.00
PCM16XW0-ND	445.00
PCM16YB0-ND	445.00
PCM16YC0-ND	445.00
PCM16YD0-ND	445.00
PCM16YE0-ND	445.00
PCM16YF0-ND	445.00
PCM16YG0-ND	445.00
PCM16YH0-ND	445.00
PCM16YJ0-ND	445.00
PCM16YK0-ND	445.00
PCM16YM0-ND	445.00
PCM16YN0-ND	445.00
PCM16YP0-ND	445.00
PCM16YQ0-ND	445.00
PCM16YR0-ND◆	445.00
PCM18XD1-ND	445.00
PCM18XJ1-ND	445.00
PCM18XK1-ND	445.00
PCM18XN1-ND◆	445.00
PCM18XP1-ND◆	445.00
PCM18XQ0-ND	445.00
PCM18XQ1-ND◆	445.00
PCM18XR1-ND◆	445.00
PCM18XT0-ND	445.00
PMF18WJ1-ND◆	595.00
PCM18XQ2-ND◆	445.00

◆ ***RoHS Compliant***

Device Adapters

Digi-Key Part No.	Price Each
DVA1001-ND◆	125.00
DVA1003-ND◆	125.00
DVA1006-ND◆	125.00
DVA12XP081-ND	125.00
DVA16PQ441-ND	225.00
DVA16PQ640-ND	225.00
DVA16XL441-ND	165.00
DVA16XL680-ND	225.00
DVA16XP140-ND	125.00
DVA16XP141-ND	125.00
DVA16XP180-ND	125.00
DVA16XP182-ND	165.00
DVA16XP183-ND	165.00
DVA16XP185-ND	165.00
DVA16XP200-ND	165.00
DVA16XP201-ND	165.00
DVA16XP202-ND	165.00
DVA16XP280-ND	125.00
DVA16XP282-ND◆	165.00
DVA17PQ441-ND	225.00
DVA17PQ801-ND	225.00
DVA17XL441-ND	165.00
DVA17XL841-ND	165.00
DVA17XP401-ND	125.00
DVA18PQ440-ND◆	225.00
DVA18PQ640-ND	225.00
DVA18PQ800-ND	225.00
DVA18PQ802-ND	225.00
DVA18XL680-ND	225.00
DVA18XL840-ND	225.00
DVA18XP180-ND◆	165.00
DVA18XP280-ND	165.00
DVA18XP400-ND◆	165.00

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Transition Sockets

Digi-Key Part No.	Price Each
XLT06SOT-ND◆	18.00
XLT08DFN2-ND	75.00
XLT08SN-1-ND	75.00
XLT08SO-1-ND	75.00
XLT14SO-1-ND	125.00
XLT14SS-1-ND	125.00
XLT16QFN1-ND	40.00
XLT18SO-1-ND	125.00
XLT20QFN-1-ND◆	175.00
XLT20SO1-1-ND◆	125.00
XLT20SS-1-ND	125.00
XLT20SS1-1-ND◆	125.00
XLT28QFN3-ND	175.00
XLT28QFN4-ND	40.00
XLT28SO-1-ND	125.00
XLT28SS2-1-ND◆	125.00
XLT44L2-ND	175.00
XLT44PT3-ND◆	225.00
XLT44QFN2-ND	175.00
XLT44QFN3-ND	125.00
XLT44QFN4-ND	125.00
XLT44QFN5-ND	125.00
XLT64PT3-ND	125.00
XLT64PT5-ND◆	225.00
XLT80PT3-ND◆	250.00

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Socket Modules

Digi-Key Part No.	Price Each
AC002012-ND	33.00
AC002013-ND◆	50.00
AC163022-ND	60.00
AC164014-ND	159.99
AC164022-ND	159.99
AC164023-ND	159.99
AC164028-ND	159.99
AC164029-ND	159.99
AC164030-ND	159.99
AC164035-ND◆	159.99
AC164036-ND	159.99
AC164038-ND	159.99
AC164301-ND◆	189.99
AC164302-ND◆	189.99
AC164303-ND◆	189.99
AC164305-ND◆	189.99
AC164306-ND◆	189.99
AC164307-ND◆	189.99
AC164308-ND	189.99
AC164309-ND◆	189.99
AC164310-ND	189.99
AC164311-ND	189.99
AC164312-ND◆	189.99
AC164313-ND	189.99
AC164317-ND	189.99
AC164321-ND◆	189.99
AC164322-ND◆	189.99
AC164323-ND	189.99
AC164324-ND◆	189.99
AC164325-ND	189.99
AC164326-ND◆	189.99
AC164327-ND◆	189.99
AC164328-ND	189.99
AC164329-ND◆	189.99
AC164331-ND◆	189.99
AC164332-ND	189.99
AC164333-ND◆	289.99
AC164338-ND◆	189.99
AC164339-ND◆	189.99
AC164335-ND	189.99
AC164336-ND	289.99
AC164337-ND	189.99
AC164340-ND◆	189.99
AC164341-ND◆	189.99
AC164350-ND◆	129.99
AC30F001-ND	159.99
AC30F002-ND	159.99
AC30F003-ND	159.99
AC30F004-ND	189.99
AC30F005-ND	189.99
AC164334-ND◆ ***NEW!***	189.99
AC164342-ND◆ ***NEW!***	209.99
AC164343-ND◆ ***NEW!***	189.99
AC164348-ND◆ ***NEW!***	189.99
AC164349-ND◆ ***NEW!***	189.99

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MICROCHIP

Demo Kits

Description	Digi-Key Part No.	Price Each
PICDEM™ CAN-LIN 2	DM163011-ND◆	199.99
PICDEM™ 4	DM163014-ND◆	129.99
PICDEM™ CAN-LIN 3	DM163015-ND◆	199.99
PICDEM™ 2 Plus	DM163022-ND◆	99.99
PICDEM ™ 2 Demo Board	DM163024-ND◆	165.00
PICDEM™ FS USB Demo Board	DM163025-ND◆	59.99
Low-Power Solutions Demo Board	DM163026-ND◆	129.99
PICDEM™ Z 2.4GHz	DM163027-5-ND◆	269.99
PICDEM™ Mechatronics Demo Kit	DM163029-ND◆	149.99
PICDEM™ LCD 2 Demo Board	DM163030-ND◆	125.00
PICDEM™ Lab Development Kit	DM163035-ND◆	124.99
PICDEM™ LCD Daughter Board	MA160011-ND	29.99
Expl 18F87J11 Plug-In Module	MA180020-ND◆	25.00
PICkit™ 2, Starter Kit	DM164120-1-ND◆	23.99
PICkit™ 2, 44-Pin Demo Board	DM164120-2-ND◆	23.99
PICkit™ 2, 28-Pin Demo Board	DM164120-3-ND	24.99
PICkit™ 2, 18-Pin Demo Board	DM164120-4-ND◆	23.99
PICkit™ 2, 64/80-Pin Demo Board	DM164120-5-ND◆	35.00
PICDEM™ System Management	DM164123-ND	110.00
PICDEM™ Touch Sense 1 Kit	DM164125-ND◆	139.99
USB Development Kit	DM164127-ND◆	39.99
PICDEM™ MC LV Dev. Board	DM183021-ND◆	99.99
PIC18FXX22 64/80-Pin TQFP Demo Board	DM183022-ND◆	59.99
Explorer 16 Development Board	DM240001-ND◆	129.99
Explorer 16 Development Board	DM240002-ND◆	129.99
dsPICDEM™ Development Board	DM330022-ND◆✔	129.99
dsPICDEM™ 2 Development Board	DM300018-ND◆	99.99
dsPICDEM™ MCSM Dev. Board	DV330021-ND◆✔	150.00
dsPICDEM™ 80P Starter	DM300019-ND◆	79.99
dsPICDEM™ MC1	DM300020-ND◆	300.00
dsPICDEM™ 1.1 Plus GP Demo Board	DM300024-ND◆	299.99
16-Bit, 28-Pin Demo Board	DM300027-ND	79.99
PIC32MX Starter Kit	DM320001-ND◆	49.99
dsPICDEM™ SMPS BUCK Demo Board	DM300023-ND◆	149.99
PICkit™ 1	DV164101-ND◆	36.00

Description	Digi-Key Part No.	Price Each
rfPIC™ Kit 1	DV164102-ND◆	135.00
PICkit™ 2, 20-Pin Demo Kit	DV164126-ND◆	59.98
XLP 16-bit Energy Harvesting Development Kit	DV164133-ND◆✔	195.00
PIC18 Development Kit	DV164136-ND◆✔	165.00
PICtail™ Humidity Sensor Demo Board	PIC16F690DM-PCTLHS-ND◆	50.00
PICtail™ Plus Module	MRF24J40MA-I/RM-ND◆	9.95
PIC32 Demo Board	DM320003-ND◆	55.00
Graphics Display Powertip Board	AC164127-6-ND◆✔	115.00
PICtail™ Plus Daughter Board	AC164127-ND◆	135.00
PICtail™ Plus Daughter Card	AC164129-ND◆	80.00
PICtail™ Plus Daughter Board	AC164130-ND◆	45.00
PICtail™ Plus Daughter Board	AC164132-ND◆✔	49.99
PICtail™ Plus Card 2.4GHz	AC164134-ND◆	18.95
ZeroG PICtail Plus Daughter Board	AC164136-2-ND◆✔	59.99
MRF49XA PICtail Plus Daughter Board	AC164137-1-ND◆✔	39.99
MRF49XA PICtail Plus Daugher Board	AC164137-2-ND◆✔	39.99
PIC32 Expansion Board	DM320002-ND◆	72.00
MPLAB® Starter Kit for PIC18F MCU	DM180021-ND ✔	59.98
PIC32 USB Starter Kit II	DM320003-2-ND◆✔	55.00
PIC32 Ethernet Starter Kit	DM320004-ND◆✔	72.00
dsPIC Starter Kit	DM330011-ND◆	59.98
PIC18F4XK20 Starter Kit	DM164124-ND◆	99.80
SRL MEM Starter Kit	DV243003-ND◆	79.98
UNI/O Bus Parasitic Power Demo Board	AC243004-ND◆✔	20.00
24V 3-Phase Brushless DC Motor with Encoder	AC300022-ND◆	160.00
PIC32 Starter Board to Explorer 16 PIM Adapter	AC320002-ND◆	30.00
Ref. Design, Automotive Lighting	APGRD004-ND◆	30.00
PICDEM™ Touch Sense 2 Dev. Kit	DM164128-ND◆	99.99
PICDEM™ 18 Explorer Demo Board	DM183032-ND◆	99.99
Internet Radio Demo Board	DM183033-ND◆	99.99
MPLAB Starter Kit for PIC24F	DM240011-ND◆	59.98
MPLAB Starter Kit for PIC24H	DM240021-ND◆	59.98
dsPICDEM™ MCLV Dev. Board	DM330021-ND◆	150.00
Evaluation Board Voltage Regulator	SOT223-5EV-VREG-ND◆	35.00
ICD3 Eval. Kit with PICDEM 2 Plus	DV164036-ND◆✔	229.99
ICD3 Eval. Kit with Explorer 16	DV164037-ND◆✔	299.99
LIN Serial Analyzer	APGDT001-ND◆✔	64.95
PIC16LF1937 PICkit™ Eval Board	DM164130-1-ND◆✔	39.99

Description	Digi-Key Part No.	Price Each
PIC24F16KA102 XLP Dev. Board	DM240311-ND◆✔	59.99
DSPICDEM MCHV Dev. Board	DM330023-ND◆✔	650.00
MCP3909 ADC Evaluation Board	MCP3909EV-MCU16-ND◆✔	80.00
SC70-6 and SOT-23-6/8 to DIP-8 Evaluation Board	SC70EV-ND◆✔	9.99
MPLAB ICD 2 Breadboard Cable	TC2030-MCP-NL-ND◆✔	33.70
EZLink™ Development Kit	TDKEZ915-ND◆✔	270.00
TO-220-5/TO263-5 Voltage Regulator Evaluation Board	TO263-5EV-VREG-ND◆✔	30.00
SchmartModule 8-bit Dev. Board	TSB8BITDB-ND◆✔	16.88
20-pin TSSOP and SSOP Evaluation Board	TSSOP20EV-ND◆✔	9.99

◆ ***RoHS Compliant*** ✔***NEW!***

Software

Description	Digi-Key Part No.	Price Each
C18 C Compiler	SW006011-ND◆	495.00
C30 C Compiler	SW006012-ND	895.00
MPLAB C Compiler for dsPIC DSCs	SW006013-ND◆	495.00
MPLAB C Compiler for PIC24 MCUs	SW006014-ND◆	495.00
C32 C Compiler	SW006015-ND◆	895.00
XTEA Battery Authentication	SW163051-ND◆	5.00
ZENA Network Analyzer Software	SW183052-ND◆	5.00
Visual FilterLab®	SW300001-ND	249.99
Digital Filter Design Lite	SW300001-LT-ND	29.99
Soft Modem	SW300003-EVAL-ND	5.00
Speech Recognition Library	SW300010-EVAL-ND	5.00
Noise Suppression Library	SW300040-EVAL-ND◆	5.00
Symmetric Key Encryption Library	SW300050-EVAL-ND	5.00
Asymmetric Key Encryption Library	SW300055-EVAL-ND	5.00
Acoustic Echo Cancellation Library	SW300060-EVAL-ND	5.00
Speech Encoding/Decoding Library	SW300070-EVAL-ND	5.00
Line Echo Cancellation Library	SW300080-EVAL-ND	5.00
HI-TECH PICC STD Compiler	SW500005-ND	495.00
PICC Enterprise	SW500006-ND	3795.00
PICC-18 PRO	SW500007-ND	1195.00
HI-TECH PICC-18 STD Compiler	SW500008-ND	495.00
DSPIC/PIPC24	SW500009-ND	895.00
HI-TECH C PRO for PIC10/12/16 MCU Family ANSI C Compiler v9.60PL5	SW500010-ND	1195.00
HI-TECH C PRO for the PIC32 MCU Family	SW500011-ND	1495.00
HI-TECH C Compiler for PIC32 MCUs	SW500012-ND◆✔	895.00
HIDmaker FS	SW500050-ND ✔	674.95
TCPmaker PRO	SW500052-ND ✔	427.45
PICtail Plus 2.4GHz RF Card	AC164134-2-ND ✔	29.99

◆ ***RoHS Compliant*** ✔***NEW!***

Digi-Key CORPORATION

Breakout and Evaluation Boards

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
PIC32 Breakout Board	876-1000-ND	30.00	DKSB1000C
DSPIC33 Breakout Board	876-1001-ND	40.00	DKSB1001B
ADXL335Z Evaluation Board	876-1002-ND	20.00	DKSB1002A
LM3406 LED Driver Evaluation Board	876-1003-ND	25.00	DKSB1003A
PIC24 Breakout Board	876-1004-ND	40.00	DKSB1011A
DVI/VGA L137 Adapter Board	906-1000-ND ***NEW!***	40.00	DKSB1007A

FlexiPanel Microcontrollers with Firmware

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each	FlexiPanel Part No.
TEAclipper/PIC™ Programmer, High-Voltage	658-1027-5-ND	34.02	TEACLIPPER-PIC-HV-PT
TEAclipper/PIC Programmer, Low-Voltage	658-1028-5-ND	25.11	TEACLIPPER-PIC-LV-PT
TEAleaf-USB™ IC Encryption Key, 28-DIL	658-1029-5-ND	9.76	TEALEAF-USB-DIL
TEAleaf-USB IC Encryption Key, 20-SSOP	658-1030-5-ND	7.68	TEALEAF-USB-SS
TEAleaf-USB IC Encryption Key	658-1031-5-ND	33.75	TEALEAF-USB
USB-232™ IC USB Asynchronous Serial UART, 28-DIL	658-1032-5-ND	8.16	USB-232-DIL
USB-232 IC Asynchronous Serial UART, 20-SSOP	658-1033-5-ND	6.24	USB-232-SS
USB-SPI™ IC USB Synchronous Serial SPI, 28-DIL	658-1034-5-ND	10.24	USB-SPI-DIL
USB-SPI IC USB Synchronous Serial SPI, 20-SSOP	658-1035-5-ND	6.24	USB-SPI-SS
USB-I2C™ IC USB Synchronous Serial I2C, 28-DIL	658-1036-5-ND	10.24	USB-I2C-DIL
USB-I2C IC USB Synchronous Serial I2C, 20-SSOP	658-1037-5-ND	6.24	USB-I2C-SS

Description	Digi-Key Part No.	Price Each	FlexiPanel Part No.
expandIO-USB™ IC USB I/O Expander, 28-DIL	658-1038-5-ND	11.12	EXPANDIO-USB-FS-DIL-28
expandIO-USB IC USB I/O Expander, 44-TQFP	658-1039-5-ND	10.72	EXPANDIO-USB-PT-FS
expandIO-USB IC USB I/O Expander, 20-SSOP	658-1040-5-ND	6.24	EXPANDIO-USB-SS
USB-DAQ™ IC System Data Logger, 28-DIL	658-1041-5-ND	14.24	USB-DAQ-DIL
USB-DAQ IC System Data Logger, 20-SSOP	658-1042-5-ND	10.24	USB-DAQ-SS
USB-FileSys™ IC System USB FAT File, 28-DIL	658-1043-5-ND	14.24	USB-FILESYS-DIL
USB-FileSys IC System USB FAT File, 20-SSOP	658-1044-5-ND	10.24	USB-FILESYS-SS
USB Evaluation Board	658-1045-5-ND	27.00	USB-EVAL
AccessTouch™ Touch Sensitive Keyed Access IC Controller, 20-SSOP	658-1046-5-ND	11.68	ACCESS-TOUCH-SS
AccessTouch Evaluation Board	658-1047-5-ND	125.00	ACCESS-TOUCH-EVAL

CCS Inc

C-Compilers and Debuggers

C-Compiler for PICmicro® MCUs: C-Compiler for 12Bit, 14Bit and PIC18 PICmicro MCUs. This Integrated C Development Environment gives developers the capability to produce efficient code from an easily maintainable high level language. With full standard C compatibility, a full featured Windows IDE with built-in functions and example programs, you will be able to develop embedded solutions for the full line of PICmicro MCUs. **ICD-S40:** This ICD unit communicates to the PC and the debugging software over an RS232 connection and operates at a 40MHz clock frequency resulting in quick debug times (RS232 serial cable included). The ICD-S40 is powered from the target board. The target board needs to supply 5 volts to the ICD. **The ICD-U64** connects to your PC via a USB port and can power your target board. The ICD is powered from: • The USB Bus • Power a board at 5.0V by closing the jumper near the ICD jack inside the unit (The unit must be opened)

Description	Digi-Key Part No.	Price Each
C-Compiler (PCWH)	429-1000-ND	500.00
C-Compiler for 12 bit PIC's (PCB)	429-1001-ND	50.00
C-Compiler for 14 bit PIC's (PCM)	429-1002-ND	150.00
C-Compiler for PIC18 (PCH)	429-1003-ND	200.00
C-Compiler for 12-14 bit PIC's (PCW)	429-1004-ND	350.00
In-Circuit Debugger ICD-S40 (Serial)	429-1005-ND	75.00

Description	Digi-Key Part No.	Price Each
In-Circuit Debugger ICD-U64 (USB)	429-1012-ND	75.00
C-Compiler for MCU DSPIC	429-1007-ND	250.00
C-Compiler for MCU DSPIC with IDE	429-1008-ND	350.00
C-Compiler (PCWHD)	429-1009-ND	600.00
PIC Hi-Speed Mach X Programmer	429-1013-ND ***NEW!***	199.00

CCS Wireless-Ember ZigBee™ Edition Development Kit Includes: • Two sensor boards with PIC16LF886 processor chips and EM260 modules • One base station board with PIC18LF4620 processor chip and EM260 module • Carrying Case • Exercise Booklet and Ember Documentation • In-Circuit Debugger/Programmer • DC Adapters (9VDC) • Serial PC to Prototyping Board Cable • Modular Cable (ICD to Prototyping Board) • USB (or serial) PC to ICD cable • Two 9V batteries

429-1011-ND Wireless-Ember Zigbee™ Kit **$724.00**

Feature Comparison	PCB	PCM	PCH	PCW	PCWH
Command Line Compiler	√	√	√	√	√
Built-in Functions	√	√	√	√	√
Example Programs	√	√	√	√	√
Device Drivers	√	√	√	√	√
MPLAB Interface	√	√	√	√	√
Windows IDE				√	√
C Aware Editor				√	√
New Project Wizard				√	√
Debugger				√	√
Device Selector/Editor				√	√
Call Tree and Memory Map	√	√	√	√	√
Statistics				√	√
Special Viewers				√	√
Serial Port Utility				√	√
12bit Support	√			√	√
14bit Support		√		√	√
PIC18 Support			√		√

microEngineering Labs, Inc. PicBasic Pro Compiler

PicBasic Pro converts your BASIC programs into files that can be programmed directly into a PICmicro® MCU. Full support for 14-bit and 16-bit MCUs. Limited support for 12-bit MCUs. The PicBasic Pro Compiler features BASIC commands, direct and library routine access to pins on PORTA, C, D, E, as well as PORTB, arrays, real IF..THEN..ELSE and interrupt processing in BASIC. Includes Code Designer Lite, a Windows integrated development environment (IDE) that is compatible with our PicBasic Pro Compiler. Comes with Software, Manual with instruction set and explanations and directions. Works on any version of Dos or Windows with CodeDesigner Lite. Windows95, 98, 2000, XP and ME compatible.

The LAB-X1A is an independent hardware platform, similar to the Microchip PICDEM™. It can run programs written in any language, including C, Assembly, and PicBasic. Includes 40 Pin Zif Socket, LCD display, memory, Rs232 port, Pots for ADCs and many extras

444-1000-ND	PicBasic Pro Compiler	**$249.95**
444-1001-ND	LAB-X1 Experimenter Board	**$199.95**

QuickWriter™ Programmer

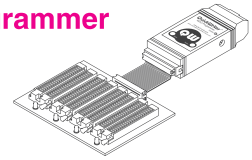

Shown with 4 Gang Adapter (not included). Programming adapters must be purchased separately.

QuickWriter comes with power supply, serial cable and in circuit programming cable. Adapter required when not using ICSP cable. One programmer for all of your PIC® MCU development needs: • In-circuit Serial Programming • 4 Gang Serial device programming • Single device programming (serial and parallel)

QuickWriter is a low cost programmer with these advanced features: • Over-sized drivers and power supply to properly support multiple device programming and in-circuit programming • Measures programming voltages and current to verify proper target connections or device insertions • Flash firmware updates • Data table driven • New devices are supported with free data table downloads from the TechTools web site (www.tech-tools.com) • Programs ALL 12-bit, 14-bit and 18-bit series Microchip PIC processors. This includes all 12C, 14000, 16C, 16F, 18C and 18F families • Includes the TechTools Development Environment (TDE™), a full featured, Windows hosted IDE. TDE supports development with all popular PIC MCU compilers and assemblers. TDE includes a multi-file editor, integrated MAKE and one-click cross referencing of compiler errors. TDE also interfaces to the TechTools ClearView™ Mathias (not included) for full featured, real-time, in-circuit emulation and source level debugging. • Includes TechTools PIC MCU assembler, CVASM16™ which supports ALL 12-bit and 14-bit PIC MCU processors. CVASM16 assembles Parallax source files (SPASM format) and accepts Microchip mnemonics. • Compatible with existing TechTools and Parallax programming adapters • Accepts HEX files generated by all popular PIC MCU compilers and assemblers • Supports auto-incrementing serialization • Runs under Win95 through XP as well as NT through XP Pro • Includes serial cable, in-circuit programming cable and power supply

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Programmer			
PICmicro® MCU	QW1-ND	199.00	QW1
Adapters			
40-Pin ZIFX	MP-ZIF40-ND†	49.00	MP-ZIF40
18/28-Pin ZIF	MP-ZIF18/28-ND	69.00	MP-ZIF18/28
14-Pin ZIF	MP-ZIF14-ND	59.00	MP-ZIF14
44-Pin PLCC	MP-PLCC44-ND	129.00	MP-PLCC44
28-Pin SOIC	MP-SOIC28-ND	129.00	MP-SOIC28
18-Pin SOIC	MP-SOIC18-ND	79.00	MP-SOIC18
8/14-Pin SOIC	MP-SOIC8/14-ND	89.00	MP-SOIC814
PIC14000	MP-14000-ND	59.00	MP-14000
28-Pin SSOP	MP-SSOP28-ND	99.00	MP-SSOP28
18-Pin SSOPX	MP-SSOP18-ND	79.00	MP-SSOP18
4 Gang Adapters for QuickWriter			
40-Pin ZIF	QW-4ZIF40/28-ND†	199.00	QW-4ZIF40/28
44-Pin PLCC	QW-4PLCC44-ND	199.00	QW-4PLCC44
28-SOIC	QW-4SOIC28-ND	249.00	QW-4SOIC28
18-Pin ZIF	QW-4ZIF18-ND	199.00	QW-4ZIF18
18-Pin SOIC	QW-4SOIC18-ND	249.00	QW-4SOIC18
8/14-Pin Narrow SOIC	QW-4SO8/14N-ND	249.00	QW-4SO8/14N
8/14-Pin Wide SOIC	QW-4SO8/14W-ND	249.00	QW-4SO8/14W

† Use with 28 and 40-Pin 14 bit dip parts.

PIC Emulators ClearView™ Mathias

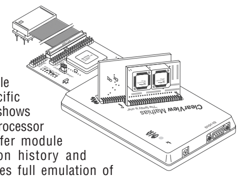

CVM1 supports emulation for 16C5X and 16CXX devices using Microsoft Windows™ for a complete integrated design environment. "Family" modules select 5X or XX device family, while "Member" modules select specific device. Optional timing module shows execution time and number of processor cycles. Optional 16K trace buffer module additionally provides execution history and 8 external trace inputs. Provides full emulation of program and register memory and I/O activity with unlimited hardware breakpoints. Built-in PLL oscillator generates any frequencies from 32KHz to 33MHz.

System requirements: IBM PC or compatible, VGA monitor, serial port, 3.5" disk drive, and Windows™ 3.1, Win95, Win98 or NT

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Family Module			
Advanced 14 Bit Family Module with Data Breakpoints	CVM04F-ND	141.60	CVM04F
PIC16C5X Family Module	CVM5XF-ND	106.20	CVM5XF
Member Module			
PIC16C55X/62X/CE62X	CVM001M-ND	141.60	CVM001M
PIC12C508/509	CVM50XM-ND	53.10	CVM50XM
PIC16C50X/CE51X/16C505	CVM5XXM-ND	70.80	CVM5XXM
PIC12C671/672	CVM67XM-ND†	70.80	CVM67XM
PIC16C5X	CVM5XM-ND	35.40	CVM5XM
PIC16C554/556/558	CVM55XM-ND	70.80	CVM55XM
PIC16C61	CVM61M-ND	70.80	CVM61M
PIC16C62X	CVM62XM-ND	70.80	CVM62XM
PIC16C62X/61/71/84	CVM6/8M-ND	141.60	CVM6/8M
PIC16C641/642/661/662	CVM66XM-ND	141.60	CVM66XM
PIC16C715	CVM715M-ND	70.80	CVM715M
PIC16C70,71,710,711	CVM711M-ND	70.80	CVM711M
PIC16C62-65/72-74	CVM7XM-ND	141.60	CVM7XM
PIC16C66/67/76/77	CVM77M-ND	141.60	CVM77M
PIC16C773,774	CVM77XM-ND	141.60	CVM77XM
PIC16F627/628	CVMF628M-ND	141.60	CVMF628M
PIC16F873,874,876,877	CVM87XAM-ND	141.60	CVM87XM
PIC16F73/F74/F76/F77	CVMF77M-ND	141.60	CVMF77M
PIC16F870/F871	CVM871M-ND	141.60	CVM871M
Trace Buffer and Timing Module			
Mathias Timing Module	CVMT1-ND	92.04	CVMT1
Mathias Trace Buffer and Timing Module	CVMT2-ND	191.16	CVMT2
Kit Module			
Firmware/Logic Field Upgrade Kit	CVM1-FWL-ND‡	38.94	CVM1-FWL
Adapter			
PIC16C712C716	ADP716-ND§	24.78	ADP716

† Requires the CVM03F Family Module § Requires Member Module CVM77M
‡ For use with TDE 4.0 software features of: Stack Viewing, Variable Trace Size, faster Step-out function and faster Register Window Updates. Contains firmware V2.2 and UC13 Ver C.

ER3 EconoROM III Economical EPROM Emulator

EconoROM III is designed for quick, in-circuit firmware test cycles. Eliminate the "burn/insert/test/remove/erase" cycle. The ER3 will speed up your firmware development by eliminating the need to remove-erase-program and re-install EPROMs each time you test a code change. These devices plug into the EPROM socket on your target board and emulate the EPROM throughout the development process.

Features:

• Integrated Low-Voltage Support • Target Voltage Sense and Measurement • External Power Option • Jumper-less Address Configuration • Up to 8Mbit Emulation in a single unit • Fast Downloads (up to 2.5 Mbit per second) • Replaces standard EPROM device during development • Connects to any Parallel Port • Auto/Manual Target Reset on download • Read-back, Verify and Self-test functions • Daisy-chain cable included • LPT cable (8 wire Modular Cable and DB25 adapter) included • Target cables (standard IDC to DIP Ribbon Cable) included • Includes 2 versions of software: 16 bit DOS version and 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader and utilities included • Accepts Intel HEX, Tektronix HEX, Motorolla 'S' records and binary files • Free software updates via WEB downloads

Capacity	Cables Supplied	Speed	Digi-Key Part No.	Price Each
256Kbit/ 32K x 8	28-Pin Dip	45ns	ER3-256-ND	179.00
512Kbit/ 64K x 8	28-Pin Dip	45ns	ER3-512-ND	239.00
1Mbit/ 128K x 8	28 and 32-Pin Dip	45ns	ER3-1M-ND	299.00
4Mbit/ 512K x 8	28 and 32-Pin Dip	45ns	ER3-4M-ND	399.00
8Mbit/ 1M x 8	28 and 32-Pin Dip	45ns	ER3-8M-ND	499.00

DigiView™ Logic Analyzer

Features: • 18 Channels @ 100MHz (10ns) • Automatic Real time Hardware Compression (Tri-Mode) • Eliminates Resolution vs. Depth tradeoffs • Advanced Universal Match Circuits (8) • Selectable Match Types (9) • Flexible Cascadable Sequencers (4x4) • Sequencer Counters (16 @ 1M each) • 0.5V ~ 2.8V Adjustable Threshold • Maximum continuous voltage ±20V all channels • Ground current protection (ground lead to +- voltage) ±12V • Graphical Trigger Layout(s) • New Software (version 6.0.4) • USB Powered • USB 2.0 with USB 1.1 compatibility • All cables, clips (20 qty) and software included

DV3400-ND	Logic Analyzer	**$1499.00**
DV3100-ND	***NEW!*** Logic Analyzer	**$499.00**
CBL-DV3-ND	Cable Replacement	**$35.00**
CLIP3-10-ND	Clip Replacement	**$35.00**

ICEPIC, ICEPIC2 and ICEPIC3 PIC Emulators

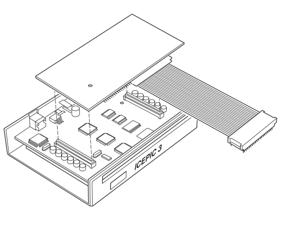

ICEPIC, ICEPIC2, and the ICEPIC3 emulators are fully modular, full speed, real time, in-circuit emulator systems, for use with Microchip PIC processors, using interchangeable "personality daughterboards" which connect directly to the users target board and are sold separately.

The ICEPIC3 Emulator is compact, portable, lightweight and offers exceptional performance and value. It uses a quick "hot" connection to the host computer via USB Port, with the system firmware being upgraded at any time from the internet giving total upgrade ability. The ICEPIC3 has additional real-time analysis when using the plug-in trace board which is sold separately.

All ICEPIC emulators operate within Microchip's MPLAB 32bit IDE giving the user easy control to perform efficient fast emulation. ICEPIC emulators are supplied as complete systems with power supply, cables, manual and a copy of Microchip's MPASM assembler.

Features	ICEPIC	ICEPIC2	ICEPIC3
Real-Time Emulation	32kHz ~ 20MHz	32kHz ~ 33MHz	1kHz ~ 50MHz
Device Emulated	12C, 16C	12C, 16C, 17C	PIC12, 16, 18
Runs Under MPLAB	Yes	Yes	Yes
Source Level Debug	Yes	Yes	Yes
"C" Source Level Debug	Yes	Yes	Yes
Real Time Trace	No	Yes	Yes†
Time Stamp	Yes	Yes	Yes†
Freeze Mode	Yes	Yes	Yes
Break Points	Unlimited	Unlimited	Unlimited
Stack Breaks	Yes	Yes	Yes
WDT Breaks	Yes	Yes	Yes
Stack View	Yes	Yes	Yes
Custom Watch	Yes	Yes	Yes
Assembler Support	MPASM	MPASM	MPASM
Communications	RS-232"C"	RS-232"C"	USB

† Using optional Modular Trace Board I3-TRACER1-ND

Description	Digi-Key Part No.	Price Each
ICSP Adaptor		
In-Circuit Serial Programming Adaptor	ISPICR1-ND	73.06
ICEPIC Emulators		
ICEPIC Emulator System	ICEPIC-ND	432.00
ICEPIC2 Emulator System	ICEPIC2-ND	654.00
ICEPIC3 Emulator System	ICEPIC3-US-ND	1050.00
ICEPIC Daughter Boards		
12C671, 16C672	DB12C67X-ND	312.00
16C554, 16C556, 16C558	DB55X-ND	312.00
16C620, 16C621, 16C622	DB62X-ND	312.00
16C641/642/661/662	DB66X-ND	372.00
16C61, 16C71, 16C710, 16C711	DB711-ND	312.00
16C715	DB715-ND	312.00
16C62/63/64/65/72/73/74	DB74A-ND	372.00
16C66, 16C67, 16C76, 16C77	DB77-ND	372.00
16C772, 16C773, 16C774	DB77X-ND	312.00
16C84, 16F83, 16F84	DB84A-ND	312.00
17C42/43/44, 17C752/756 (ICEPIC2 Only)	DB756-ND	312.00
16F73, 16F74, 16F76, 16F77	DBF77-ND	372.00
16F870/71	DBF871-ND	276.00
ICEPIC3 Daughter Boards		
12F675, 12F629	I3DB12F675-ND	638.75
12F683	I3-DB12F683-ND	638.75
16F684A	I3-DB16F84A-ND	638.75
16F716	I3-DB16F716-ND	638.75
16F871, 16F870	I3-DB16F871-ND	638.75
18C452/442/252/242	I3DB18C452-ND	638.75
18F2220/2320/4220/4320	I3DB18F4320-ND	638.75
18F452/442/252/242	I3DB18F452-ND	638.75
18F1320, 18F1220	I3-DB18F1320-ND	638.75
18F4431/4331/2431/2331	I3-DB18F4431-ND	638.75
18F4550/2455/2550/4445	I3-DB18F4550-ND	638.75
18F4620/4525/2620/2525	I3DB18F4620-ND	638.75
18F4680/2680/2585/4685	I3-DB18F4680-ND	638.75
16F872A/873A/874A/876A/877A	I3DB877A-ND	638.75
16F627A, 16F628A, 16F648A	I3DBF648-ND	638.75
16F676, 16F630	I3DBF676-ND	638.75
16F72, 16F73, 16F74, 16F76, 16F77	I3DBF77-ND	638.75
16F737, 16F767, 16F747, 16F777	I3DBF777-ND	638.75
16F818, 16F819	I3DBF819-ND	638.75
16F87, 16F88	I3DBF88-ND	638.75
Trace Boards		
ICEPIC3 Trace Board	I3-TRACER1-ND	1312.50

CPU/System Supervisors

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-270DI/TO-ND◆	.41	.34	.29	—	—
2.925	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-300DI/TO-ND◆	.41	.34	.29	—	—
3.075	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-315DI/TO-ND◆	.41	.34	.29	—	—
4.375	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-450DI/TO-ND◆	.41	.34	.29	—	—
4.475	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-460DI/TO-ND◆	.41	.34	.29	—	—
4.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-475DI/TO-ND◆	.41	.34	.29	—	—
4.725	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-485DI/TO-ND◆	.41	.34	.29	—	—
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-270HI/TO-ND◆	.41	.34	.29	—	—
2.925	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-300HI/TO-ND	.41	.34	.29	—	—
3.075	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-315HI/TO-ND	.41	.34	.29	—	—
4.375	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-450HI/TO-ND◆	.41	.34	.29	—	—
4.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-475HI/TO-ND◆	.41	.34	.29	—	—
4.725	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-485HI/TO-ND◆	.41	.34	.29	—	—
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-270I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
2.925	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-300I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
3.075	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-315I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
4.375	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-450I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
4.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-475I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
4.725	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-485I/TTCT-ND◆†	.41	.34	.29	3,000	260.00/M
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-270DI/TO-ND◆	.41	.34	.29	—	—
2.925	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-300DI/TO-ND◆	.41	.34	.29	—	—
3.075	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-315DI/TO-ND◆	.41	.34	.29	—	—
4.375	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-450DI/TO-ND◆	.41	.34	.29	—	—
4.475	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-460DI/TO-ND◆	.41	.34	.29	—	—
4.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-475DI/TO-ND◆	.41	.34	.29	—	—
4.725	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-485DI/TO-ND◆	.41	.34	.29	—	—
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-270HI/TO-ND◆	.41	.34	.29	—	—
2.925	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-300HI/TO-ND	.41	.34	.29	—	—
3.075	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-315HI/TO-ND	.41	.34	.29	—	—
4.375	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-450HI/TO-ND◆	.41	.34	.29	—	—
4.475	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-460HI/TO-ND	.41	.34	.29	—	—
4.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-475HI/TO-ND◆	.41	.34	.29	—	—
4.725	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-485HI/TO-ND◆	.41	.34	.29	—	—
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP102-195I/TO-ND◆	.60	.50	.42	—	—
2.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP102-270E/TO-ND◆	.60	.50	.42	—	—
4.380	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP102-450E/TO-ND◆	.60	.50	.42	—	—
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70	MCP102T-195I/LBCT-ND◆†	.60	.50	.42	3,000	380.00/M
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-195I/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.320	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-240E/TTCT-ND◆†	.60	.50	.42	—	—
2.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-270E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.930	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-300E/TTCT-ND◆†	.60	.50	.42	—	—
3.080	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-315E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
4.380	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-450E/TTCT-ND◆†	.60	.50	.42	—	—
4.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP102T-475E/TTCT-ND◆†	.60	.50	.42	—	—
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70	MCP103T-195I/LBCT-ND◆†	.60	.50	.42	3,000	380.00/M
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP103T-195I/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-270DI/TO-ND◆	.54	.45	.37	—	—
2.925	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-300DI/TO-ND◆	.54	.45	.37	—	—
3.075	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-315DI/TO-ND◆	.54	.45	.37	—	—
4.375	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-450DI/TO-ND◆	.54	.45	.37	—	—
4.475	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-460DI/TO-ND◆	.54	.45	.37	—	—
4.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-475DI/TO-ND◆	.54	.45	.37	—	—
4.725	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-485DI/TO-ND◆	.54	.45	.37	—	—
2.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-270I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
2.925	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-300I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
3.075	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-315I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.375	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-450I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.475	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-460I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-475I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.725	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-485I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
1.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-195I/TO-ND◆	.60	.50	.42	—	—
1.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP121T-195I/LBCT-ND◆†	.60	.50	.42	3,000	380.00/M
1.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-195I/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.320	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-240E/TO-ND◆	.60	.50	.42	—	—
2.320	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-240E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-270E/TO-ND◆	.60	.50	.42	—	—
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-270E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-300E/TO-ND◆	.60	.50	.42	—	—
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-300E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-315E/TO-ND◆	.60	.50	.42	—	—
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-315E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-450E/TO-ND◆	.60	.50	.42	—	—
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-450E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
4.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-475E/TO-ND◆	.60	.50	.42	—	—
4.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP121T-475E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.625	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-270DI/TO-ND◆	.54	.45	.37	—	—
2.925	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-300DI/TO-ND◆	.54	.45	.37	—	—
3.075	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-315DI/TO-ND◆	.54	.45	.37	—	—
4.375	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-450DI/TO-ND◆	.54	.45	.37	—	—
4.475	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-460DI/TO-ND◆	.54	.45	.37	—	—
4.625	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-475DI/TO-ND◆	.54	.45	.37	—	—
4.725	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP130-485DI/TO-ND◆	.54	.45	.37	—	—
2.625	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-270I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
2.925	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-300I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
3.075	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-315I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.375	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-450I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.475	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-460I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.625	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-475I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.725	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23	MCP130T-485I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
1.900	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP131-195I/TO-ND◆	.60	.50	.42	—	—
1.900	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SC-70	MCP131T-195I/LBCT-ND◆†	.60	.50	.42	—	—
1.900	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-195I/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.320	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP131-240E/TO-ND◆	.60	.50	.42	—	—
2.320	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-240E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.630	Active Low	Open Drain with 5k Ω pull-up	No	No	1.0 ~ 5.5	TO-92	MCP131-270E/TO-ND◆	.60	.50	.42	—	—
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-270E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP131-300E/TO-ND◆	.60	.50	.42	—	—
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-300E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP131-315E/TO-ND◆	.60	.50	.42	—	—
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-315E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Digi Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Power Management

CPU/System Supervisors *(Cont.)*

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP131-450E/TO-ND◆	.60	.50	.42	—	—
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-450E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
4.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP131-475E/TO-ND◆	.60	.50	.42	—	—
4.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B	MCP131T-475E/TTCT-ND◆†	.60	.50	.42	3,000	380.00/M
2.90	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316MT-29KE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316MT-29ME/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-29AE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-29LE/OTCT-ND◆†	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-29NE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-46BE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-46FE/OTCT-ND◆† ***NEW!***	.72	.59	.49	3,000	450.00/M
4.60	Active Low	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1316T-46LE/OTCT-ND◆†	.70	.59	.49	—	—
2.90	Active High	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1317T-29LE/OTCT-ND◆†	.70	.59	.49	—	—
4.60	Active High	Push-Pull	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1317T-46LE/OTCT-ND◆†	.70	.59	.49	—	—
2.90	Active Low/High	Push-Pull and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1318T-29HE/OTCT-ND◆† ***NEW!***	.72	.59	.49	3,000	450.00/M
2.90	Active Low	Push-Pull and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1318T-29LE/OTCT-ND◆†	.70	.59	.49	—	—
4.60	Active Low	Push-Pull and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1318T-46LE/OTCT-ND◆†	.70	.59	.49	3,000	450.00/M
4.60	Active Low/High	Push-Pull and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1318T-46ME/OTCT-ND◆† ***NEW!***	.72	.59	.49	3,000	450.00/M
4.60	Active Low/High	Open Drain and Push-Pull	No	Yes	1.0 ~ 5.5	SOT-23-5	MCP1319MT-46LE/OTCT-ND◆†	.71	.59	.49	—	—
2.90	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-29BE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-29FE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-29LE/OTCT-ND◆†	.70	.59	.49	3,000	450.00/M
4.60	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-46GE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-46KE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low	Open Drain	Yes	Yes	1.0 ~ 5.5	SOT-23-5	MCP1320T-46LE/OTCT-ND◆†	.70	.59	.49	—	—
2.90	Active Low/High	Open Drain and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1321T-29KE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
2.90	Active Low/High	Open Drain and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1321T-29LE/OTCT-ND◆†	.70	.59	.49	3,000	450.00/M
2.90	Active Low/High	Open Drain and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1321T-29ME/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low/High	Open Drain and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1321T-46CE/OTCT-ND◆† ***NEW!***	.72	.59	.49	3,000	450.00/M
4.60	Active Low/High	Open Drain and Push-Pull	Yes	No	1.0 ~ 5.5	SOT-23-5	MCP1321T-46LE/OTCT-ND◆†	.70	.59	.49	—	—
4.60	Active Low/High	Open Drain and Push-Pull	No	Yes	1.0 ~ 5.5	SOT-23-5	MCP1322T-46EE/OTCT-ND◆† ***NEW!***	.70	.59	.49	3,000	450.00/M
4.60	Active Low/High	Open Drain and Push-Pull	No	Yes	1.0 ~ 5.5	SOT-23-5	MCP1322T-46LE/OTCT-ND◆†	.70	.59	.49	3,000	450.00/M
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-270I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
2.925	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-300I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
3.075	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-315I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.375	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-450I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.475	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-460I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-475I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.725	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-485I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-270I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
2.925	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-300I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
3.075	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-315I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.375	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-450I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.475	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-460I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-475I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.725	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-485I/TTCT-ND◆†	.54	.45	.37	3,000	340.00/M
4.5	Active Low	Open Drain	Yes	No	4.5 ~ 5.5	SOT-223	TC32MEDB713CT-ND◆†	2.86	2.38	1.98	4,000	1800.00/M
4.5	Active Low	Open Drain	Yes	No	4.5 ~ 5.5	TO-92	TC32MCZB-ND◆	2.41	2.01	1.67	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	4.5 ~ 5.5	8-DIP	TC1232CPA-ND◆	1.58	1.32	1.10	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	4.5 ~ 5.5	8-SOIC	TC1232EOA-ND◆	1.58	1.32	1.10	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	4.5 ~ 5.5	8-DIP	TC1232EPA-ND◆	1.58	1.32	1.10	—	—
2.63	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ARCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
2.93	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ASCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
3.08	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ATCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.38	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270AMCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.63	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ALCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
2.63	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ANRCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
2.93	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ANSCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
3.08	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ANTCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.38	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ANMCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.63	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1270ANLCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.38	Active High	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-143-4	TC1271MERCCT-ND◆†	.95	.79	.66	—	—
2.63	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1271ARCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
2.93	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1271ASCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
3.08	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1271ATCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.38	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1271AMCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.63	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT23A-5	TC1271ALCVCTCT-ND◆†	.79	.66	.55	3,000	500.00/M
4.62	Active Low	Open Drain	No	No	1.2 ~ 5.5	SOT-23B-3	TC1273-5ENBCT-ND◆†	.79	.66	.55	—	—
4.62	Active High	CMOS Push-Pull	No	No	1.8 ~ 5.5	SOT-23B-3	TC1274-5ENBCT-ND◆†	.79	.66	.55	—	—
2.88	Active Low	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-23B	TC1275-10ENBCT-ND◆†	.79	.66	.55	—	—
4.00	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809JVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.00	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809JVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809LENB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809LVLB713CT-ND◆†	.41	.34	.29	—	—
4.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809LVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.38	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809MENB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.38	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809MVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.38	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809MVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809RENB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809RVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809RVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.93	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809SVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.93	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809SVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
3.08	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809TVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
3.08	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809TVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.32	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM809ZVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.32	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM809ZVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810LENB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810LVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810LVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.38	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810MVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.38	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810MVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
4.00	Active High	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810JVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810RENB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810RVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.63	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810RVNB713CT-ND†	.41	.34	.29	3,000	260.00/M
2.93	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810SVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.93	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810SVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
3.08	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810TVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
3.08	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810TVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.32	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	TCM810ZVLB713CT-ND◆†	.41	.34	.29	3,000	260.00/M
2.32	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23B-3	TCM810ZVNB713CT-ND◆†	.41	.34	.29	3,000	260.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape *(Continued)*

Voltage Detectors

RoHS COMPLIANT

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP111-270E/TO-ND	.54	.45	.37	—	—
2.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP111-290E/TO-ND	.54	.45	.37	—	—
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP111-315E/TO-ND	.54	.45	.37	—	—
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP111-450E/TO-ND	.54	.45	.37	—	—
4.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP111-475E/TO-ND	.54	.45	.37	—	—
2.320	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-240E/LBCT-ND†	.54	.45	.37	3,000	340.00/M
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-270E/LBCT-ND†	.54	.45	.37	—	—
2.630	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B-3	MCP111T-270E/TTCT-ND†	.54	.45	.37	—	—
2.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-290E/LBCT-ND†	.54	.45	.37	—	—
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-300E/LBCT-ND†	.54	.45	.37	—	—
2.930	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B-3	MCP111T-300E/TTCT-ND†	.54	.45	.37	—	—
3.080	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-315E/LBCT-ND†	.54	.45	.37	3,000	340.00/M
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	SC-70	MCP111T-450E/LBCT-ND†	.54	.45	.37	—	—
4.380	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23B-3	MCP111T-450E/TTCT-ND†	.54	.45	.37	—	—
2.63	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP112-270E/TO-ND	.54	.45	.37	—	—
3.08	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP112-315E/TO-ND	.54	.45	.37	—	—
4.380	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP112-450E/TO-ND	.54	.45	.37	—	—
2.320	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-240E/TTCT-ND†	.54	.45	.37	3,000	340.00/M
2.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-270E/LBCT-ND†	.54	.45	.37	—	—
2.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-270E/TTCT-ND†	.54	.45	.37	—	—
2.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-290E/LBCT-ND†	.54	.45	.37	—	—
2.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-290E/TTCT-ND†	.54	.45	.37	—	—
2.930	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-300E/LBCT-ND†	.54	.45	.37	—	—
2.930	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-300E/TTCT-ND†	.54	.45	.37	—	—
3.080	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-315E/LBCT-ND†	.54	.45	.37	—	—
3.080	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-315E/TTCT-ND†	.54	.45	.37	—	—
4.380	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-450E/LBCT-ND†	.54	.45	.37	—	—
4.380	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-450E/TTCT-ND†	.54	.45	.37	—	—
4.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SC-70-3	MCP112T-475E/LBCT-ND†	.54	.45	.37	—	—
4.630	Active Low	Push-Pull	No	No	1.0 ~ 5.5	SOT-23B	MCP112T-475E/TTCT-ND†	.54	.45	.37	—	—
1.40	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A-3	TC54VC1402ECB713CT-ND†	.64	.53	.44	3,000	400.00/M
2.10	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC2102ECB713CT-ND†	.64	.53	.44	3,000	400.00/M
2.10	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC2102EZB-ND	.64	.53	.44	—	—
2.70	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC2702ECB71CT-ND†	.58	.48	.40	3,000	360.00/M
2.70	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC2702EZB-ND	.64	.53	.44	—	—
2.90	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC2902ECB71CT-ND†	.58	.48	.40	3,000	360.00/M
2.90	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC2902EZB-ND	.64	.53	.44	—	—
3.00	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC3002ECB713CT-ND†	.58	.48	.40	3,000	360.00/M
3.00	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC3002EZB-ND	.64	.53	.44	—	—
4.30	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC4302ECB71CT-ND†	.64	.53	.44	3,000	400.00/M
4.30	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-89	TC54VC4302EMB71CT-ND†	.64	.53	.44	1,000	400.00
4.30	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC4302EZB-ND	.64	.53	.44	—	—
4.50	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC4502ECB71CT-ND†	.64	.53	.44	3,000	400.00/M
4.50	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VC4502EZB-ND	.40	.37	.31	—	—
1.40	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT23A-3	TC54VN1402ECB713CT-ND†	.64	.53	.44	3,000	400.00/M
1.40	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN1402EZB-ND	.64	.53	.44	—	—
2.10	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN2102ECB713CT-ND†	.58	.48	.40	3,000	360.00/M
2.10	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN2102EZB-ND	.64	.53	.44	—	—
2.70	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN2702ECB71CT-ND†	.58	.48	.40	3,000	360.00/M
2.70	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN2702EZB-ND	.64	.53	.44	—	—
2.90	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN2902ECB71CT-ND†	.58	.48	.40	—	—
2.90	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN2902EZB-ND	.64	.53	.44	—	—
3.00	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN3002ECB71CT-ND†	.58	.48	.40	3,000	360.00/M
3.00	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN3002EZB-ND	.64	.53	.44	—	—
4.30	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN4302ECB71CT-ND†	.64	.53	.44	3,000	400.00/M
4.30	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN4302EZB-ND	.64	.53	.44	—	—
4.50	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VN4502ECB71CT-ND†	.64	.53	.44	3,000	400.00/M
4.50	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	SOT-89	TC54VN4502EMB71CT-ND†	.64	.53	.44	1,000	400.00
4.50	Active Low	Open Drain and Push-Pull	No	No	0.7 ~ 10	TO-92	TC54VN4502EZB-ND	.74	.69	.58	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND.   † Cut Tape

Voltage Reference

RoHS COMPLIANT

Input Voltage (V)	Voltage Reference (V)	Current Output (mA)	Q Current (µA)	Operating Temperature (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
							1	10	25	Qty.	Pricing
2.7 ~ 5.5	2.5	2	100	-40 ~ 85	TO-92	MCP1525-I/TO-ND	.92	.77	.64	—	—
	2.5	2	100	-40 ~ 85	SOT-23	MCP1525T-I/TTCT-ND†	.92	.77	.64	3,000	580.00/M
4.3 ~ 5.5	4.096	2	100	-40 ~ 85	TO-92	MCP1541-I/TO-ND	.92	.77	.64	—	—
	4.096	2	100	-40 ~ 85	SOT-23	MCP1541T-I/TTCT-ND†	.92	.77	.64	3,000	580.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND.   † Cut Tape

DC/DC Converters

Description	Input Voltage (V)	Output Voltage (V)	Max. Input Current (µA)	Typical Active Output Current (mA)	Operating Temperature	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
Regulated	2.0 ~ 5.5	3.3 or 5.0	120	120	-45°C ~ 85°C	8-MSOP	MCP1252-33X50I/MS-ND◆	1.64	1.37	1.14	—	—
	2.0 ~ 5.5	3.3 or 5.0	120	120	-45°C ~ 85°C	8-MSOP	MCP1252-ADJI/MS-ND◆	1.64	1.37	1.14	—	—
	2.0 ~ 5.5	3.3 or 5.0	120	120	-45°C ~ 85°C	8-MSOP	MCP1253-33X50I/MS-ND◆	1.64	1.37	1.14	—	—
	2.0 ~ 5.5	3.3 or 5.0	120	120	-45°C ~ 85°C	8-MSOP	MCP1253-ADJI/MS-ND◆	1.64	1.37	1.14	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-DFN	MCP1256-E/MF-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-MSOP	MCP1256-E/UN-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-DFN	MCP1257-E/MF-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-MSOP	MCP1257-E/UN-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-DFN	MCP1258-E/MF-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-MSOP	MCP1258-E/UN-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-DFN	MCP1259-E/MF-ND◆	1.58	1.46	1.22	—	—
	1.8 ~ 3.6	3.3	10	100	-40°C ~ 125°C	10-MSOP	MCP1259-E/UN-ND◆	1.58	1.46	1.22	—	—
	2.7 ~ 5.5	0.9 to Vin	180	500	-45°C ~ 85°C	8-MSOP	MCP1601-I/MS-ND◆	1.34	1.23	1.02	—	—
Inverting or Doubling	1.5 ~ 12	-Vin or 2Vin	80	20	-45°C ~ 85°C	8-SOIC	TC1044SEOA-ND◆	1.02	.93	.78	—	—
	1.5 ~ 12	-Vin or 2Vin	80	20	-45°C ~ 85°C	8-DIP	TC1044SEPA-ND◆	1.02	.93	.78	—	—
	2.4 ~ 5.5	-Vin or 2Vin	100	100	0°C ~ 70°C	8-SOIC	TC1121COA-ND◆	1.34	1.23	1.02	—	—
	2.4 ~ 5.5	-Vin or 2Vin	100	100	0°C ~ 70°C	8-DIP	TC1121CPA-ND◆	1.38	1.26	1.05	—	—
	2.4 ~ 5.5	-Vin	100	100	-45°C ~ 85°C	8-SOIC	TC1121EOA-ND◆	1.46	1.34	1.11	—	—
	2.4 ~ 5.5	-Vin	100	100	-45°C ~ 85°C	8-DIP	TC1121EPA-ND◆	1.46	1.34	1.11	—	—

◆ ***RoHS Compliant***   ‡ For Tape and Reel part number, change CT-ND to TR-ND.   † Cut Tape

(Continued)

Power Management

DC/DC Converters *(Cont.)*

Description	Input Voltage (V)	Output Voltage (V)	Max. Input Current (µA)	Typical Active Output Current (mA)	Operating Temperature	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel‡ Qty.	Pricing
Inverting or Doubling	2.5 ~ 5.5	-Vin or 2Vin	325	25	-45°C ~ 85°C	SOT-23A-6	TC1220ECHCT-ND◆†	.92	.75	.62	3,000	560.00/M
	1.8 ~ 5.5	-Vin or 2Vin	600	25	-45°C ~ 85°C	SOT-23A-6	TC1221ECHCT-ND◆†	.97	.79	.66	3,000	600.00/M
	1.8 ~ 5.5	-Vin or 2Vin	2800	25	-45°C ~ 85°C	SOT-23A-6	TC1222ECHCT-ND◆†	.97	.79	.66	3,000	600.00/M
	2.5 ~ 5.5	2Vin	900	40	-45°C ~ 85°C	SOT-23A-6	TC1240AECHCT-ND◆†	1.01	.82	.69	3,000	620.00/M
	2.5 ~ 4.0	2Vin	300	40	-45°C ~ 85°C	SOT-23A-6	TC1240ECHCT-ND◆†	1.01	.82	.69	3,000	620.00/M
Inverting	1.5 ~ 10	-Vin	180	20	0°C ~ 70°C	8-SOIC	TC7660COA-ND◆	.95	.79	.66	—	—
	1.5 ~ 10	-Vin	180	20	0°C ~ 70°C	8-DIP	TC7660CPA-ND◆	.95	.79	.66	—	—
	1.5 ~ 10	-Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7660EOA-ND◆	.95	.79	.66	—	—
	1.5 ~ 10	-Vin	180	20	-40°C ~ 85°C	8-DIP	TC7660EPA-ND◆	.95	.79	.66	—	—
	1.5 ~ 10	-Vin	1000	20	0°C ~ 70°C	8-DIP	TC7660HCPA-ND◆	1.20	1.00	.84	—	—
	1.5 ~ 10	-Vin	1000	20	-40°C ~ 85°C	8-SOIC	TC7660HEOA-ND◆	1.20	1.00	.84	—	—
	1.5 ~ 10	-Vin	1000	20	-40°C ~ 85°C	8-DIP	TC7660HEPA-ND◆	1.20	1.00	.84	—	—
	1.5 ~ 12	-Vin	160	20	0°C ~ 70°C	8-SOIC	TC7660SCOA-ND◆	1.08	.90	.75	—	—
	1.5 ~ 12	-Vin	160	20	0°C ~ 70°C	8-DIP	TC7660SCPA-ND◆	1.08	.90	.75	—	—
	1.5 ~ 12	-Vin	160	20	-40°C ~ 85°C	8-SOIC	TC7660SEOA-ND◆	1.08	.90	.75	—	—
	1.5 ~ 12	-Vin	160	20	-45°C ~ 85°C	8-SOIC	TC7660SEOA713CT-ND◆†	1.08	.90	.75	3,300	680.00/M
	1.5 ~ 12	-Vin	160	20	-45°C ~ 85°C	8-DIP	TC7660SEPA-ND◆	1.08	.90	.75	—	—
Inverting or Doubling	3.0 ~ 18	-Vin or 2Vin	700	40	0°C ~ 70°C	8-DIP	TC7662ACPA-ND◆	3.17	2.64	2.20	—	—
	3.0 ~ 18	-Vin or 2Vin	700	40	-45°C ~ 85°C	8-DIP	TC7662AEPA-ND◆	4.34	3.62	3.01	—	—
	3.0 ~ 18	-Vin or 2Vin	700	40	-25°C ~ 85°C	8-CDIP	TC7662AIJA-ND	11.15	9.29	7.74	—	—
	1.5 ~ 15	-Vin or 2Vin	160	20	0°C ~ 70°C	8-SOIC	TC7662BCOA-ND◆	2.28	1.90	1.58	—	—
	1.5 ~ 15	-Vin or 2Vin	160	20	0°C ~ 70°C	8-DIP	TC7662BCPA-ND◆	2.28	1.90	1.58	—	—
	1.5 ~ 15	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-SOIC	TC7662BEOA-ND◆	2.66	2.22	1.85	—	—
	1.5 ~ 15	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-SOIC	TC7662BEOA713CT-ND◆†	2.66	2.22	1.85	3,300	1680.00/M
	1.5 ~ 15	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-DIP	TC7662BEPA-ND◆	2.66	2.22	1.85	—	—
	2.4 ~ 5.5	-2Vin	300	10	-45°C ~ 85°C	8-SOIC	TC682EOA-ND◆	2.92	2.43	2.02	—	—
	2.4 ~ 5.5	-2Vin	300	10	-45°C ~ 85°C	8-DIP	TC682EPA-ND◆	2.92	2.43	2.02	—	—
	3.0 ~ 18	-Vin or 2Vin	700	80	0°C ~ 70°C	(wide) 16-SOIC	TC962COE-ND◆	3.48	2.90	2.42	—	—
	3.0 ~ 18	-Vin or 2Vin	700	80	0°C ~ 70°C	8-DIP	TC962CPA-ND◆	3.48	2.90	2.42	—	—
	3.0 ~ 18	-Vin or 2Vin	700	80	0°C ~ 70°C	(wide) 16-SOIC	TC962EOE-ND◆	13.30	10.45	9.57	—	—
	3.0 ~ 18	-Vin or 2Vin	700	80	-45°C ~ 85°C	8-DIP	TC962EPA-ND◆	3.48	2.90	2.42	—	—
	1.5 ~ 5.5	-Vin or 2Vin	90	25	-45°C ~ 85°C	SOT-23A-5	TCM828ECT713CT-ND◆†	.58	.48	.40	3,000	360.00/M
	1.5 ~ 5.5	-Vin or 2Vin	260	25	-45°C ~ 85°C	SOT-23A-5	TCM829ECT713CT-ND◆†	.79	.66	.55	3,000	500.00/M
Evaluation Board for MCP1601							MCP1601EV-ND	30.00	—	—	—	—
Reference Design for MCP1603							MCP1603RD-TNY-ND◆	40.00	—	—	—	—
Evaluation Board for MCP1256/7/8/9							MCP1256/7/8/9EV-ND	35.00	—	—	—	—
Evaluation Board for MCP1603							MCP1603EV-ND◆	25.00	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Linear Voltage Regulators

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel‡ Qty.	Pricing
6	1.2	200	1.6	300	0.4	TO-92	MCP1700-1202E/TO-ND◆	.44	.37	.31	—	—
	1.8	200	1.6	300	0.4	TO-92	MCP1700-1802E/TO-ND◆	.44	.37	.31	—	—
	2.5	250	1.6	300	0.4	TO-92	MCP1700-2502E/TO-ND◆	.44	.37	.31	—	—
	3.0	250	1.6	300	0.4	TO-92	MCP1700-3002E/TO-ND◆	.44	.37	.31	—	—
	3.3	250	1.6	300	0.4	TO-92	MCP1700-3302E/TO-ND◆	.44	.37	.31	—	—
	5.0	250	1.6	300	0.4	TO-92	MCP1700-5002E/TO-ND◆	.44	.37	.31	—	—
	1.2	200	1.6	300	0.4	SOT-23	MCP1700T-1202E/TTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	1.8	200	1.6	300	0.4	SOT-23	MCP1700T1802ETTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	1.8	200	1.6	300	0.4	SOT-89-3	MCP1700T1802EMBCT-ND◆†	.45	.37	.31	1,000	280.00
	2.5	250	1.6	300	0.4	SOT-23	MCP1700T-2502E/TTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	3.0	250	1.6	300	0.4	SOT-23	MCP1700T-3002E/TTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	3.3	250	1.6	300	0.4	SOT-23	MCP1700T3302ETTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	3.3	250	1.6	300	0.4	SOT-89-3	MCP1700T3302EMBCT-ND◆†	.45	.37	.31	1,000	280.00
	5.0	250	1.6	300	0.4	SOT-23	MCP1700T5002ETTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	5.0	250	1.6	300	0.4	SOT-89-3	MCP1700T5002EMBCT-ND◆†	.45	.37	.31	1,000	280.00
	1.8	50	50	85	0.5	SOT-23-5	TC10141.8VCT713CT-ND◆†	.41	.33	.27	—	—
	2.5	50	50	85	0.5	SOT-23-5	TC1014-2.5VCT713CT-ND◆†	.41	.33	.27	3,000	250.00/M
	2.7	50	50	85	0.5	SOT-23-5	TC10142.7VCT713CT-ND◆†	.41	.33	.27	3,000	250.00/M
	3.0	50	50	85	0.5	SOT-23-5	TC1014-3.0VCT713CT-ND◆†	.41	.33	.27	3,000	250.00/M
	3.3	50	50	85	0.5	SOT-23-5	TC1014-3.3VCT713CT-ND◆†	.41	.33	.27	3,000	250.00/M
	5.0	50	50	85	0.5	SOT-23-5	TC10145.0VCT713CT-ND◆†	.41	.33	.27	—	—
	1.8	100	50	180	0.5	SOT-23-5	TC1015-1.8VCT713CT-ND◆†	.43	.34	.28	3,000	260.00/M
	2.5	100	50	180	0.5	SOT-23-5	TC10152.5VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	2.8	100	50	180	0.5	SOT-23-5	TC10152.8VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	3.0	100	50	180	0.5	SOT-23-5	TC10153.0VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	3.3	100	50	180	0.5	SOT-23-5	TC1015-3.3VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	4.0	100	50	180	0.5	SOT-23-5	TC10154.0VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	5.0	100	50	180	0.5	SOT-23-5	TC1015-5.0VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	1.8	80	53	150	0.5	SOT-23-5	TC1016-1.8VCTCT-ND◆†	.54	.44	.38	3,000	334.55/M
	1.8	80	53	150	0.5	SC-70-5	TC1016-1.8VLTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	1.85	80	53	150	0.5	SOT-23-5	TC1016-1.85VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	2.7	80	53	150	0.5	SC-70-5	TC1016-2.7VLTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	2.7	80	53	150	0.5	SOT-23-5	TC1016-2.7VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	2.8	80	53	150	0.5	SOT-23-5	TC1016-2.8VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	3.0	80	53	150	0.5	SOT-23-5	TC1016-3.0VCTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3.0	80	53	150	0.5	SC-70-5	TC1016-3.0VLTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3.3	80	53	150	0.5	SOT-23-5	TC1016-3.3VCTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3.3	80	53	150	0.5	SC-70-5	TC1016-3.3VLTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	4.0	80	53	150	0.5	SOT-23-5	TC1016-4.0VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	4.0	80	53	150	0.5	SC70-5	TC1016-4.0VLTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	2.8	150	53	285	0.5	SOT-23-5	TC1017-2.8VCTCT-ND◆† ***NEW!***	.56	.46	.38	3,000	350.00/M
	2.5	100	50	180	0.5	SOT-23A-5	TC10552.5VCT713CT-ND†	.43	.36	.30	3,000	270.00/M
	3.3	100	50	180	0.5	SOT-23A-5	TC10553.3VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	5.0	100	50	180	0.5	SOT-23A-5	TC10555.0VCT713CT-ND†	.43	.36	.30	3,000	270.00/M
	1.23 ~ 5.5	100	50	180	—	SOT-23A-5	TC1071VCT713CT-ND◆†	.43	.36	.30	3,000	270.00/M
	1.8	100	50	180	0.5	SOT-23A-6	TC10731.8VCH713CT-ND†	.43	.36	.30	—	—
	3.0	100	50	180	0.5	SOT-23A-6	TC10733.0VCH713CT-ND†	.43	.36	.30	3,000	270.00/M
	5.0	100	50	180	0.5	SOT-23A-6	TC10735.0VCH713CT-ND†	.43	.36	.30	3,000	270.00/M
	2.5	300	50	240	0.5	8-SOIC	TC1107-2.5VOA-ND◆	.46	.42	.35	—	—
	2.5	300	50	240	0.5	8-MSOP	TC1107-2.5VUA-ND	.46	.42	.35	—	—
	2.5	300	50	240	0.5	8-MSOP	TC1107-2.5VUACT-ND†	.52	.42	.35	2,500	320.00/M
	2.7	300	50	240	0.5	8-MSOP	TC1107-2.7VUA-ND	.46	.42	.35	—	—
	2.7	300	50	240	0.5	8-SOIC	TC1107-2.7VOA-ND◆	.46	.42	.35	—	—
	3.0	300	50	240	0.5	8-MSOP	TC1107-3.0VUA-ND	.46	.42	.35	—	—
	3.0	300	50	240	0.5	8-SOIC	TC1107-3.0VOA-ND◆	.46	.42	.35	—	—
	3.3	300	50	240	0.5	8-SOIC	TC1107-3.3VOA-ND◆	.46	.42	.35	—	—
	3.3	300	50	240	0.5	8-MSOP	TC1107-3.3VUA-ND◆	.46	.42	.35	—	—
	5.0	300	50	240	0.5	8-SOIC	TC1107-5.0VOA-ND◆	.46	.42	.35	—	—
	5.0	300	50	240	0.5	8-MSOP	TC1107-5.0VUA-ND◆	.46	.42	.35	—	—
	2.5	300	50	240	0.5	SOT-223-3	TC1108-2.5VDBCT-ND◆†	.59	.48	.40	4,000	360.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape *(Continued)*

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
6	1.8	150	50	270	0.5	SOT-23A-5	TC11851.8VCT713CT-ND◆†	.45	.37	.31	3,000	280.00/M
	2.5	150	50	270	0.5	SOT-23A-5	TC11852.5VCT713CT-ND†	.45	.37	.31	3,000	280.00/M
	2.7	150	50	270	0.5	SOT-23A-5	TC11852.7VCT713CT-ND†	.45	.37	.31	—	—
	2.8	150	50	270	0.5	SOT-23A-5	TC11852.8VCT713CT-ND†	.45	.37	.31	3,000	280.00/M
	2.85	150	50	270	0.5	SOT-23A-5	TC11852.85VCT71CT-ND◆†	.45	.37	.31	3,000	280.00/M
	3.0	150	50	270	0.5	SOT-23A-5	TC11853.0VCT713CT-ND◆†	.45	.37	.31	3,000	280.00/M
	3.3	150	50	270	0.5	SOT-23A-5	TC11853.3VCT713CT-ND◆†	.45	.37	.31	3,000	280.00/M
	4.0	150	50	270	0.5	SOT-23A-5	TC11854.0VCT713CT-ND◆†	.45	.37	.31	3,000	280.00/M
	5.0	150	50	270	0.5	SOT-23A-5	TC11855.0VCT713CT-ND◆†	.45	.37	.31	3,000	280.00/M
	2.5	500	80	350	0.5	TO-220-3	TC1262-2.5VAB-ND	.90	.82	.69	—	—
	2.5	500	80	350	0.5	SOT-223-3	TC1262-2.5VDB-ND	.56	.51	.43	—	—
	2.8	500	80	350	0.5	SOT-223-3	TC1262-2.8VDB-ND◆ ***NEW!***	.90	.82	.69	—	—
	3.0	500	80	350	0.5	TO-220-3	TC1262-3.0VAB-ND◆	.90	.82	.69	—	—
	3.0	500	80	350	0.5	SOT-223-3	TC1262-3.0VDB-ND◆	.56	.51	.43	—	—
	3.3	500	80	350	0.5	SOT-223-3	TC1262-3.3VDB-ND◆	.56	.51	.43	—	—
	3.3	500	80	350	0.5	SOT-223-3	TC1262-3.3VDBCT-ND◆†	.63	.51	.43	4,000	390.00/M
	3.3	500	80	350	0.5	TO-220-3	TC1262-3.3VAB-ND◆	.90	.82	.69	—	—
	5.0	500	80	350	0.5	TO-220-3	TC1262-5.0VAB-ND	.90	.82	.69	—	—
	5.0	500	80	350	0.5	SOT-223-3	TC1262-5.0VDB-ND◆	.56	.51	.43	—	—
	2.5	500	80	350	0.5	TO-220-5	TC1263-2.5VAT-ND	.90	.82	.69	—	—
	2.5	500	80	350	0.5	8-SOIC	TC1263-2.5VOA-ND	.56	.51	.43	—	—
	1.8	800	80	450	0.5	TO-220-3	TC1264-1.8VAB-ND◆	1.06	.98	.82	—	—
	1.8	800	80	450	0.5	DDPAK-3	TC1264-1.8VEBCT-ND◆†	1.19	.98	.82	750	555.00
	1.8	800	80	450	0.5	SOT-223-3	TC1264-1.8VDBCT-ND†	.83	.68	.57	4,000	520.01/M
	2.5	800	80	450	0.5	TO-220-3	TC1264-2.5VAB-ND◆	1.06	.98	.82	—	—
	2.5	800	80	450	0.5	SOT-223-3	TC1264-2.5VDB-ND◆	1.06	.98	.82	—	—
	3.0	800	80	450	0.5	TO-220-3	TC1264-3.0VAB-ND◆	1.06	.98	.82	—	—
	3.0	800	80	450	0.5	SOT-223-3	TC1264-3.0VDB-ND◆	1.14	1.05	.87	—	—
	3.3	800	80	450	0.5	TO-220-3	TC1264-3.3VAB-ND◆	1.06	.98	.82	—	—
	1.8	800	80	450	0.5	TO-220-5	TC1265-1.8VAT-ND	1.06	.98	.82	—	—
	1.8	800	80	450	0.5	8-SOIC	TC1265-1.8VOA-ND◆	.74	.68	.57	—	—
	2.5	800	80	450	0.5	TO-220-5	TC1265-2.5VAT-ND◆	1.06	.98	.82	—	—
	3.0	800	80	450	0.5	TO-220-5	TC1265-3.0VAT-ND◆	1.06	.98	.82	—	—
	3.0	800	80	450	0.5	8-SOIC	TC1265-3.0VOA-ND◆	.74	.68	.57	—	—
	3.3	800	80	450	0.5	TO-220-5	TC1265-3.3VAT-ND◆	1.06	.98	.82	—	—
	3.3	800	80	450	0.5	8-SOIC	TC1265-3.3VOA-ND◆	.74	.68	.57	—	—
	3.3	200	60	200	1.0	8-MSOP	TC1266VUA-ND	.74	.68	.57	—	—
	3.3	200	60	200	1.0	8-SOIC	TC1266VOA-ND	.74	.68	.57	—	—
	3.3	300	50	240	0.5	8-MSOP	TC1269-3.3VUA-ND◆	.46	.42	.35	—	—
	5.0	300	50	240	0.5	8-MSOP	TC1269-5.0VUA-ND	.46	.42	.35	—	—
	—	300	103	104	0.5	8-DFN	TC1301A-AAAVMF-ND◆	.56	.51	.43	—	—
	—	300	103	104	0.5	8-MSOP	TC1301A-AAAVUA-ND◆	.56	.51	.43	—	—
	—	300	103	104	0.5	8-MSOP	TC1301A-ADAVUA-ND◆	.56	.51	.43	—	—
	—	300	103	104	0.5	8-MSOP	TC1301A-DDAVUA-ND◆	.56	.51	.43	—	—
	—	300	103	104	0.5	8-DFN	TC1301A-PGAVMF-ND◆	.56	.51	.43	—	—
	—	300	114	104	0.5	8-DFN	TC1301B-AIAVMF-ND◆	.56	.51	.43	—	—
	—	300	103	104	0.5	8-DFN	TC1302A-IAVMF-ND◆	.56	.51	.43	—	—
	0.8	500	120	210	0.5	8-DFN	MCP1725-0802E/MC-ND◆	.56	.51	.43	—	—
	0.8	500	120	210	0.5	8-SOIC	MCP1725-0802E/SN-ND◆	.56	.51	.43	—	—
	1.2	500	120	210	0.5	8-DFN	MCP1725-1202E/MC-ND◆	.56	.51	.43	—	—
	1.2	500	120	210	0.5	8-SOIC	MCP1725-1202E/SN-ND◆	.56	.51	.43	—	—
	1.8	500	120	210	0.5	8-SOIC	MCP1725-1802E/SN-ND◆	.56	.51	.43	—	—
	2.5	500	120	210	0.5	8-DFN	MCP1725-2502E/MC-ND◆	.56	.51	.43	—	—
	2.5	500	120	210	0.5	8-SOIC	MCP1725-2502E/SN-ND◆	.56	.51	.43	—	—
	3.0	500	120	210	0.5	8-DFN	MCP1725-3002E/MC-ND◆	.56	.51	.43	—	—
	3.0	500	120	210	0.5	8-SOIC	MCP1725-3002E/SN-ND◆	.56	.51	.43	—	—
	3.3	500	120	210	0.5	8-DFN	MCP1725-3302E/MC-ND◆	.56	.51	.43	—	—
	3.3	500	120	210	0.5	8-SOIC	MCP1725-3302E/SN-ND◆	.56	.51	.43	—	—
	5.0	500	120	210	0.5	8-DFN	MCP1725-5002E/MC-ND◆	.56	.51	.43	—	—
	5.0	500	120	210	0.5	8-SOIC	MCP1725-5002E/SN-ND◆	.56	.51	.43	—	—
	0.8 ~ 5.0	500	120	210	0.5	8-DFN	MCP1725-ADJE/MC-ND◆	.56	.51	.43	—	—
	0.8 ~ 5.0	500	120	210	0.5	8-SOIC	MCP1725-ADJE/SN-ND◆	.56	.51	.43	—	—
	0.8	1,000	130	500	0.5	8-DFN	MCP1726-0802E/MF-ND◆	.74	.68	.57	—	—
	0.8	1,000	130	500	0.5	8-SOIC	MCP1726-0802E/SN-ND◆	.74	.68	.57	—	—
	1.2	1,000	130	500	0.5	8-DFN	MCP1726-1202E/MF-ND◆	.74	.68	.57	—	—
	1.2	1,000	130	500	0.5	8-SOIC	MCP1726-1202E/SN-ND◆	.74	.68	.57	—	—
	1.8	1,000	130	500	0.5	8-SOIC	MCP1726-1802E/SN-ND◆	.74	.68	.57	—	—
	2.5	1,000	130	500	0.5	8-DFN	MCP1726-2502E/MF-ND◆	.74	.68	.57	—	—
	2.5	1,000	130	500	0.5	8-SOIC	MCP1726-2502E/SN-ND◆	.74	.68	.57	—	—
	3.0	1,000	130	500	0.5	8-DFN	MCP1726-3002E/MF-ND◆	1.70	1.56	1.30	—	—
	3.0	1,000	130	500	0.5	8-SOIC	MCP1726-3002E/SN-ND◆	1.58	1.47	1.23	—	—
	3.3	1,000	130	500	0.5	8-DFN	MCP1726-3302E/MF-ND◆	.74	.68	.57	—	—
	3.3	1,000	130	500	0.5	8-SOIC	MCP1726-3302E/SN-ND◆	.74	.68	.57	—	—
	5.0	1,000	130	500	0.5	8-DFN	MCP1726-5002E/MF-ND◆	.74	.68	.57	—	—
	5.0	1,000	130	500	0.5	8-SOIC	MCP1726-5002E/SN-ND◆	.74	.68	.57	—	—
	0.8 ~ 5.0	1,000	130	500	0.5	8-DFN	MCP1726-ADJE/MF-ND◆	.74	.68	.57	—	—
	0.8 ~ 5.0	1,000	130	500	0.5	8-SOIC	MCP1726-ADJE/SN-ND◆	.74	.68	.57	—	—
	1.2	1,500	120	330	0.5	8-DFN	MCP1727-1202E/MF-ND◆	.90	.82	.69	—	—
	1.2	1,500	120	330	0.5	8-SOIC	MCP1727-1202E/SN-ND◆	.90	.82	.69	—	—
	1.8	1,500	120	330	0.5	8-DFN	MCP1727-1802E/MF-ND◆	.90	.82	.69	—	—
	1.8	1,500	120	330	0.5	8-SOIC	MCP1727-1802E/SN-ND◆	.90	.82	.69	—	—
	2.5	1,500	120	330	0.5	8-DFN	MCP1727-2502E/MF-ND◆	.90	.82	.69	—	—
	2.5	1,500	120	330	0.5	8-SOIC	MCP1727-2502E/SN-ND◆	.90	.82	.69	—	—
	3.0	1,500	120	330	0.5	8-DFN	MCP1727-3002E/MF-ND◆	.90	.82	.69	—	—
	3.0	1,500	120	330	0.5	8-SOIC	MCP1727-3002E/SN-ND◆	.90	.82	.69	—	—
	3.3	1,500	120	330	0.5	8-DFN	MCP1727-3302E/MF-ND◆	.90	.82	.69	—	—
	3.3	1,500	120	330	0.5	8-SOIC	MCP1727-3302E/SN-ND◆	.90	.82	.69	—	—
	5.0	1,500	120	330	0.5	8-DFN	MCP1727-5002E/MF-ND◆	.90	.82	.69	—	—
	5.0	1,500	120	330	0.5	8-SOIC	MCP1727-5002E/SN-ND◆	.90	.82	.69	—	—
	0.8 ~ 5.0	1,500	120	330	0.5	8-DFN	MCP1727-ADJE/MF-ND◆	.90	.82	.69	—	—
	0.8 ~ 5.0	1,500	120	330	0.5	8-SOIC	MCP1727-ADJE/SN-ND◆	.90	.82	.69	—	—
	5.0	50	55	45	0.4	SOT-23A-5	TC2014-5.0VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	5.0	100	55	90	0.4	SOT-23A-5	TC2015-5.0VCTCT-ND◆† ***NEW!***	.47	.39	.32	3,000	290.00/M
	5.0	50	55	45	0.4	SOT-23A-5	TC2054-5.0VCTCT-ND◆† ***NEW!***	.43	.36	.30	3,000	270.00/M
	5.0	100	55	90	0.4	SOT-23A-5	TC2055-5.0VCTCT-ND◆† ***NEW!***	.47	.39	.32	3,000	290.00/M
	1.8	150	55	140	0.4	SOT-23A-5	TC2185-1.8VCCT-ND†	.52	.42	.35	3,000	320.00/M
	2.8	150	55	140	0.4	SOT-23A-5	TC2185-2.8VCCT-ND†	.52	.42	.35	3,000	320.00/M
	3.0	150	55	140	0.4	SOT-23A-5	TC2185-3.0VCCT-ND◆†	.52	.42	.35	3,000	320.00/M
	3.3	150	55	140	0.4	SOT-23A-5	TC2185-3.3VCCT-ND◆†	.52	.42	.35	3,000	320.00/M
	5.0	150	55	140	0.4	SOT-23A-5	TC2185-5.0VCTCT-ND◆† ***NEW!***	.52	.42	.35	3,000	320.00/M
	5.0	150	55	140	0.4	SOT-23A-5	TC2186-5.0VCTCT-ND◆† ***NEW!***	.52	.42	.35	3,000	320.00/M
	0.8	300	120	200	0.4	SOT-223-3	MCP1824ST-0802E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	1.2	300	120	200	0.4	SOT-223-3	MCP1824ST-1202E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	1.8	300	120	200	0.4	SOT-223-3	MCP1824ST-1802E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape *(Continued)*

Power Management

Linear Voltage Regulators *(Cont.)*

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
6	2.5	300	120	200	0.4	SOT-223-3	MCP1824ST-2502E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	3.0	300	120	200	0.4	SOT-223-3	MCP1824ST-3002E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	3.3	300	120	200	0.4	SOT-223-3	MCP1824ST-3302E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	5.0	300	120	200	0.4	SOT-223-3	MCP1824ST-5002E/DBCT-ND◆†	.59	.48	.40	4,000	360.00/M
	0.8	300	120	200	0.4	SOT-223-5	MCP1824T-0802E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	1.2	300	120	200	0.4	SOT-223-5	MCP1824T-1202E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	1.2	300	120	200	0.4	SOT-23-5	MCP1824T-1202E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	1.8	300	120	200	0.4	SOT-223-5	MCP1824T-1802E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	1.8	300	120	200	0.4	SOT-23-5	MCP1824T-1802E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	2.5	300	120	200	0.4	SOT-223-5	MCP1824T-2502E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	2.5	300	120	200	0.4	SOT-23-5	MCP1824T-2502E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	3.0	300	120	200	0.4	SOT-223-5	MCP1824T-3002E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	3.0	300	120	200	0.4	SOT-23-5	MCP1824T-3002E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	3.3	300	120	200	0.4	SOT-223-5	MCP1824T-3302E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	3.3	300	120	200	0.4	SOT-23-5	MCP1824T-3302E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	5.0	300	120	200	0.4	SOT-223-5	MCP1824T-5002E/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	5.0	300	120	200	0.4	SOT-23-5	MCP1824T-5002E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	0.8 ~ 5.0	300	120	200	0.4	SOT-223-5	MCP1824T-ADJE/DCCT-ND◆†	.59	.48	.40	4,000	360.00/M
	0.8 ~ 5.0	300	120	200	0.4	SOT-23-5	MCP1824T-ADJE/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	0.8	500	120	210	0.5	TO-220-5	MCP1825-0802E/AT-ND◆	.90	.82	.69	—	—
	0.8	500	120	210	0.5	5-DDPAK	MCP1825-0802E/ET-ND◆	.90	.82	.69	—	—
	1.2	500	120	210	0.5	TO-220-5	MCP1825-1202E/AT-ND◆	.90	.82	.69	—	—
	1.2	500	120	210	0.5	5-DDPAK	MCP1825-1202E/ET-ND◆	.90	.82	.69	—	—
	1.8	500	120	210	0.5	TO-220-5	MCP1825-1802E/AT-ND◆	.90	.82	.69	—	—
	1.8	500	120	210	0.5	5-DDPAK	MCP1825-1802E/ET-ND◆	.90	.82	.69	—	—
	2.5	500	120	210	0.5	TO-220-5	MCP1825-2502E/AT-ND◆	.90	.82	.69	—	—
	2.5	500	120	210	0.5	5-DDPAK	MCP1825-2502E/ET-ND◆	.90	.82	.69	—	—
	3.0	500	120	210	0.5	TO-220-5	MCP1825-3002E/AT-ND◆	.90	.82	.69	—	—
	3.0	500	120	210	0.5	5-DDPAK	MCP1825-3002E/ET-ND◆	.90	.82	.69	—	—
	3.3	500	120	210	0.5	TO-220-5	MCP1825-3302E/AT-ND◆	.90	.82	.69	—	—
	3.3	500	120	210	0.5	5-DDPAK	MCP1825-3302E/ET-ND◆	.90	.82	.69	—	—
	5.0	500	120	210	0.5	TO-220-5	MCP1825-5002E/AT-ND◆	.90	.82	.69	—	—
	0.8 ~ 5.0	500	120	210	0.5	TO-220-5	MCP1825-ADJE/AT-ND◆	.90	.82	.69	—	—
	0.8 ~ 5.0	500	120	210	0.5	5-DDPAK	MCP1825-ADJE/ET-ND◆	.90	.82	.69	—	—
	0.8	500	120	300	0.5	TO-220-3	MCP1825S-0802E/AB-ND◆	.90	.82	.69	—	—
	0.8	500	120	300	0.5	SOT-223-3	MCP1825S-0802E/DB-ND◆	.56	.51	.43	—	—
	0.8	500	120	300	0.5	3-DDPAK	MCP1825S-0802E/EB-ND◆	.90	.82	.69	—	—
	1.2	500	120	300	0.5	TO-220-3	MCP1825S-1202E/AB-ND◆	.90	.82	.69	—	—
	1.2	500	120	300	0.5	SOT-223-3	MCP1825S-1202E/DB-ND◆	.56	.51	.43	—	—
	1.2	500	120	300	0.5	3-DDPAK	MCP1825S-1202E/EB-ND◆	.90	.82	.69	—	—
	1.8	500	120	300	0.5	TO-220-3	MCP1825S-1802E/AB-ND◆	.90	.82	.69	—	—
	1.8	500	120	300	0.5	SOT-223-3	MCP1825S-1802E/DB-ND◆	.56	.51	.43	—	—
	1.8	500	120	300	0.5	3-DDPAK	MCP1825S-1802E/EB-ND◆	.90	.82	.69	—	—
	2.5	500	120	300	0.5	TO-220-3	MCP1825S-2502E/AB-ND◆	.90	.82	.69	—	—
	2.5	500	120	300	0.5	SOT-223-3	MCP1825S-2502E/DB-ND◆	.56	.51	.43	—	—
	2.5	500	120	300	0.5	3-DDPAK	MCP1825S-2502E/EB-ND◆	.90	.82	.69	—	—
	3.0	500	120	300	0.5	TO-220-3	MCP1825S-3002E/AB-ND◆	.90	.82	.69	—	—
	3.0	500	120	300	0.5	SOT-223-3	MCP1825S-3002E/DB-ND◆	.56	.51	.43	—	—
	3.0	500	120	300	0.5	3-DDPAK	MCP1825S-3002E/EB-ND◆	.90	.82	.69	—	—
	3.3	500	120	300	0.5	TO-220-3	MCP1825S-3302E/AB-ND◆	.90	.82	.69	—	—
	3.3	500	120	300	0.5	SOT-223-3	MCP1825S-3302E/DB-ND◆	.56	.51	.43	—	—
	3.3	500	120	300	0.5	3-DDPAK	MCP1825S-3302E/EB-ND◆	.90	.82	.69	—	—
	5.0	500	120	300	0.5	TO-220-3	MCP1825S-5002E/AB-ND◆	.90	.82	.69	—	—
	5.0	500	120	300	0.5	SOT-223-3	MCP1825S-5002E/DB-ND◆	.56	.51	.43	—	—
	5.0	500	120	300	0.5	3-DDPAK	MCP1825S-5002E/EB-ND◆	.90	.82	.69	—	—
	2.5	500	120	300	0.5	3-DDPAK	MCP1825ST-2502E/EBCT-ND◆†	1.01	.82	.69	750	465.00
	1.8	500	120	210	0.5	SOT-223-5	MCP1825T-1802E/DCCT-ND◆†	.56	.51	.43	4,000	390.00/M
	3.0	500	120	210	0.5	SOT-223-5	MCP1825T-3002E/DCCT-ND◆†	.63	.51	.43	4,000	390.00/M
	3.3	500	120	210	0.5	SOT-223-5	MCP1825T-3302E/DCCT-ND◆†	.63	.51	.43	4,000	390.00/M
	5.0	500	120	210	0.5	SOT-223-5	MCP1825T-5002E/DCCT-ND◆†	.63	.51	.43	4,000	390.00/M
	0.8 ~ 5.0	500	120	210	0.5	SOT-223-5	MCP1825T-ADJE/DCCT-ND◆†	.63	.51	.43	4,000	390.00/M
	0.8	1,000	120	225	0.5	TO-220-5	MCP1826-0802E/AT-ND◆	1.06	.98	.82	—	—
	0.8	1,000	120	225	0.5	5-DDPAK	MCP1826-0802E/ET-ND◆	1.06	.98	.82	—	—
	1.2	1,000	120	225	0.5	TO-220-5	MCP1826-1202E/AT-ND◆	1.06	.98	.82	—	—
	1.2	1,000	120	225	0.5	5-DDPAK	MCP1826-1202E/ET-ND◆	1.06	.98	.82	—	—
	1.8	1,000	120	225	0.5	TO-220-5	MCP1826-1802E/AT-ND◆	1.06	.98	.82	—	—
	1.8	1,000	120	225	0.5	5-DDPAK	MCP1826-1802E/ET-ND◆	1.06	.98	.82	—	—
	2.5	1,000	120	225	0.5	TO-220-5	MCP1826-2502E/AT-ND◆	1.06	.98	.82	—	—
	2.5	1,000	120	225	0.5	5-DDPAK	MCP1826-2502E/ET-ND◆	1.06	.98	.82	—	—
	3.0	1,000	120	225	0.5	TO-220-5	MCP1826-3002E/AT-ND◆	1.06	.98	.82	—	—
	3.0	1,000	120	225	0.5	5-DDPAK	MCP1826-3002E/ET-ND◆	1.06	.98	.82	—	—
	3.3	1,000	120	225	0.5	TO-220-5	MCP1826-3302E/AT-ND◆	1.06	.98	.82	—	—
	3.3	1,000	120	225	0.5	5-DDPAK	MCP1826-3302E/ET-ND◆	1.06	.98	.82	—	—
	5.0	1,000	120	225	0.5	TO-220-5	MCP1826-5002E/AT-ND◆	1.06	.98	.82	—	—
	5.0	1,000	120	225	0.5	5-DDPAK	MCP1826-5002E/ET-ND◆	1.06	.98	.82	—	—
	0.8 ~ 5.0	1,000	120	225	0.5	TO-220-5	MCP1826-ADJE/AT-ND◆	1.06	.98	.82	—	—
	0.8 ~ 5.0	1,000	120	225	0.5	5-DDPAK	MCP1826-ADJE/ET-ND◆	1.06	.98	.82	—	—
	0.8	1,000	120	225	0.5	TO-220-3	MCP1826S-0802E/AB-ND◆	1.06	.98	.82	—	—
	0.8	1,000	120	225	0.5	SOT-223-3	MCP1826S-0802E/DB-ND◆	.74	.68	.57	—	—
	0.8	1,000	120	225	0.5	3-DDPAK	MCP1826S-0802E/EB-ND◆	1.06	.98	.82	—	—
	1.2	1,000	120	225	0.5	TO-220-3	MCP1826S-1202E/AB-ND◆	1.06	.98	.82	—	—
	1.2	1,000	120	225	0.5	SOT-223-3	MCP1826S-1202E/DB-ND◆	.74	.68	.57	—	—
	1.2	1,000	120	225	0.5	3-DDPAK	MCP1826S-1202E/EB-ND◆	1.06	.98	.82	—	—
	1.8	1,000	120	225	0.5	TO-220-3	MCP1826S-1802E/AB-ND◆	1.06	.98	.82	—	—
	1.8	1,000	120	225	0.5	SOT-223-3	MCP1826S-1802E/DB-ND◆	.74	.68	.57	—	—
	1.8	1,000	120	225	0.5	3-DDPAK	MCP1826S-1802E/EB-ND◆	1.06	.98	.82	—	—
	2.5	1,000	120	225	0.5	TO-220-3	MCP1826S-2502E/AB-ND◆	1.06	.98	.82	—	—
	2.5	1,000	120	225	0.5	SOT-223-3	MCP1826S-2502E/DB-ND◆	.74	.68	.57	—	—
	2.5	1,000	120	225	0.5	3-DDPAK	MCP1826S-2502E/EB-ND◆	1.06	.98	.82	—	—
	3.0	1,000	120	225	0.5	TO-220-3	MCP1826S-3002E/AB-ND◆	1.06	.98	.82	—	—
	3.0	1,000	120	225	0.5	SOT-223-3	MCP1826S-3002E/DB-ND◆	.74	.68	.57	—	—
	3.0	1,000	120	225	0.5	3-DDPAK	MCP1826S-3002E/EB-ND◆	1.06	.98	.82	—	—
	3.3	1,000	120	225	0.5	TO-220-3	MCP1826S-3302E/AB-ND◆	1.06	.98	.82	—	—
	3.3	1,000	120	225	0.5	SOT-223-3	MCP1826S-3302E/DB-ND◆	.74	.68	.57	—	—
	3.3	1,000	120	225	0.5	3-DDPAK	MCP1826S-3302E/EB-ND◆	1.06	.98	.82	—	—
	5.0	1,000	120	225	0.5	TO-220-3	MCP1826S-5002E/AB-ND◆	1.06	.98	.82	—	—
	5.0	1,000	120	225	0.5	SOT-223-3	MCP1826S-5002E/DB-ND◆	.74	.68	.57	—	—
	5.0	1,000	120	225	0.5	3-DDPAK	MCP1826S-5002E/EB-ND◆	1.06	.98	.82	—	—
	1.2	1,000	120	225	0.5	SOT-223-5	MCP1826T-1202E/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M
	1.8	1,000	120	225	0.5	SOT-223-5	MCP1826T-1802E/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M
	2.5	1,000	120	225	0.5	SOT-223-5	MCP1826T-2502E/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M
	3.0	1,000	120	225	0.5	SOT-223-5	MCP1826T-3002E/DCCT-ND◆†	.74	.68	.57	4,000	520.01/M
	3.3	1,000	120	225	0.5	SOT-223-5	MCP1826T-3302E/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Power Management

Linear Voltage Regulators *(Cont.)*

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
6	5.0	1,000	120	225	0.5	SOT-223-5	MCP1826T-5002E/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M
	0.8 ~ 5.0	1,000	120	225	0.5	SOT-223-5	MCP1826T-ADJE/DCCT-ND◆†	.83	.68	.57	4,000	520.01/M
	1.2	1,500	120	330	0.5	TO-220-5	MCP1827-1202E/AT-ND◆	1.24	1.13	.94	—	—
	1.2	1,500	120	330	0.5	5-DDPAK	MCP1827-1202E/ET-ND◆	1.24	1.13	.94	—	—
	1.8	1,500	120	330	0.5	TO-220-5	MCP1827-1802E/AT-ND◆	1.24	1.13	.94	—	—
	1.8	1,500	120	330	0.5	5-DDPAK	MCP1827-1802E/ET-ND◆	1.24	1.13	.94	—	—
	2.5	1,500	120	330	0.5	TO-220-5	MCP1827-2502E/AT-ND◆	1.24	1.13	.94	—	—
	2.5	1,500	120	330	0.5	5-DDPAK	MCP1827-2502E/ET-ND◆	1.24	1.13	.94	—	—
	3.0	1,500	120	330	0.5	TO-220-5	MCP1827-3002E/AT-ND◆	1.24	1.13	.94	—	—
	3.0	1,500	120	330	0.5	5-DDPAK	MCP1827-3002E/ET-ND◆	1.24	1.13	.94	—	—
	3.3	1,500	120	330	0.5	TO-220-5	MCP1827-3302E/AT-ND◆	1.24	1.13	.94	—	—
	3.3	1,500	120	330	0.5	5-DDPAK	MCP1827-3302E/ET-ND◆	1.24	1.13	.94	—	—
	5.0	1,500	120	330	0.5	TO-220-5	MCP1827-5002E/AT-ND◆	1.24	1.13	.94	—	—
	5.0	1,500	120	330	0.5	5-DDPAK	MCP1827-5002E/ET-ND◆	1.24	1.13	.94	—	—
	0.8 ~ 5.0	1,500	120	330	0.5	TO-220-5	MCP1827-ADJE/AT-ND◆	1.24	1.13	.94	—	—
	0.8 ~ 5.0	1,500	120	330	0.5	5-DDPAK	MCP1827-ADJE/ET-ND◆	1.24	1.13	.94	—	—
	1.2	1,500	120	330	0.5	TO-220-3	MCP1827S-1202E/AB-ND◆	1.24	1.13	.94	—	—
	1.2	1,500	120	330	0.5	3-DDPAK	MCP1827S-1202E/EB-ND◆	1.24	1.13	.94	—	—
	1.8	1,500	120	330	0.5	TO-220-3	MCP1827S-1802E/AB-ND◆	1.24	1.13	.94	—	—
	1.8	1,500	120	330	0.5	3-DDPAK	MCP1827S-1802E/EB-ND◆	1.24	1.13	.94	—	—
	2.5	1,500	120	330	0.5	TO-220-3	MCP1827S-2502E/AB-ND◆	1.24	1.13	.94	—	—
	2.5	1,500	120	330	0.5	3-DDPAK	MCP1827S-2502E/EB-ND◆	1.24	1.13	.94	—	—
	3.0	1,500	120	330	0.5	TO-220-3	MCP1827S-3002E/AB-ND◆	1.24	1.13	.94	—	—
	3.0	1,500	120	330	0.5	3-DDPAK	MCP1827S-3002E/EB-ND◆	1.24	1.13	.94	—	—
	3.3	1,500	120	330	0.5	TO-220-3	MCP1827S-3302E/AB-ND◆	1.24	1.13	.94	—	—
	3.3	1,500	120	330	0.5	3-DDPAK	MCP1827S-3302E/EB-ND◆	1.24	1.13	.94	—	—
	5.0	1,500	120	330	0.5	TO-220-3	MCP1827S-5002E/AB-ND◆	1.24	1.13	.94	—	—
	5.0	1,500	120	330	0.5	3-DDPAK	MCP1827S-5002E/EB-ND◆	1.24	1.13	.94	—	—
10	1.2	150	25	250	2	SOT-23-5	MCP1801T-1202I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	1.8	150	25	250	2	SOT-23-5	MCP1801T-1802I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	2.5	150	25	250	2	SOT-23-5	MCP1801T-2502I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	3.0	150	25	250	2	SOT-23-5	MCP1801T-3002I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	3.3	150	25	250	2	SOT-23-5	MCP1801T-3302I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	5.0	150	25	250	2	SOT-23-5	MCP1801T-5002I/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	1.2	300	25	800	2	SOT-23-5	MCP1802T-1202I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
	1.8	300	25	800	2	SOT-23-5	MCP1802T-1802I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
	2.5	300	25	800	2	SOT-23-5	MCP1802T-2502I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
	3.0	300	25	800	2	SOT-23-5	MCP1802T-3002I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
	3.3	300	25	800	2	SOT-23-5	MCP1802T-3302I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
	5.0	300	25	800	2	SOT-23-5	MCP1802T-5002I/OTCT-ND◆†	.65	.53	.44	3,000	400.00/M
13.2	1.2	200	2	330	0.4	TO92-3	MCP1702-1202E/TO-ND◆	.52	.48	.40	—	—
	1.5	200	2	330	0.4	TO92-3	MCP1702-1502E/TO-ND◆ ***NEW!***	.52	.48	.40	—	—
	1.8	200	2	330	0.4	TO-92-3	MCP1702-1802E/TO-ND◆	.52	.48	.40	—	—
	2.5	250	2	330	0.4	TO-92	MCP1702-2502E/TO-ND◆	.52	.48	.40	—	—
	2.8	250	2	330	0.4	TO-92-3	MCP1702-2802E/TO-ND◆ ***NEW!***	.52	.48	.40	—	—
	3.0	250	2	330	0.4	TO-92-3	MCP1702-3002E/TO-ND◆	.52	.48	.40	—	—
	3.3	250	2	330	0.4	TO-92-3	MCP1702-3302E/TO-ND◆	.52	.48	.40	—	—
	4.0	250	2	330	0.4	TO-92-3	MCP1702-4002E/TO-ND◆ ***NEW!***	.52	.48	.40	—	—
	5.0	250	2	330	0.4	TO-92-3	MCP1702-5002E/TO-ND◆	.52	.48	.40	—	—
	1.2	200	2	330	0.4	SOT-23A-3	MCP1702T-1202E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	1.2	200	2	330	0.4	SOT-89-3	MCP1702T-1202E/MBCT-ND◆† ***NEW!***	.59	.48	.40	1,000	360.00
	1.5	200	2	330	0.4	SOT-23A-3	MCP1702T-1502E/CBCT-ND◆† ***NEW!***	.59	.48	.40	3,000	360.00/M
	1.5	200	2	330	0.4	SOT-89-3	MCP1702T-1502E/MBCT-ND◆† ***NEW!***	.59	.48	.40	1,000	360.00
	1.8	200	2	330	0.4	SOT-23A	MCP1702T-1802E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	2.5	250	2	330	0.4	SOT-23A	MCP1702T-2502E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	2.8	250	2	330	0.4	SOT-23A-3	MCP1702T-2802E/CBCT-ND◆† ***NEW!***	.59	.48	.40	3,000	360.00/M
	2.8	250	2	330	0.4	SOT-89-3	MCP1702T-2802E/MBCT-ND◆† ***NEW!***	.59	.48	.40	1,000	360.00
	3.0	250	2	330	0.4	SOT-23A	MCP1702T-3002E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	3.3	250	2	330	0.4	SOT-23A	MCP1702T-3302E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	4.0	250	2	330	0.4	SOT-23A-3	MCP1702T-4002E/CBCT-ND◆† ***NEW!***	.59	.48	.40	3,000	360.00/M
	4.0	250	2	330	0.4	SOT-89-3	MCP1702T-4002E/MBCT-ND◆† ***NEW!***	.59	.48	.40	1,000	360.00
	5.0	250	2	330	0.4	SOT-23A	MCP1702T-5002E/CBCT-ND◆†	.59	.48	.40	3,000	360.00/M
	5.0	250	2	330	0.4	SOT-89-3	MCP1702T-5002E/MBCT-ND◆† ***NEW!***	.59	.48	.40	1,000	360.00
16	1.2	200	2	625	0.4	SOT-223-3	MCP1703-1202E/DB-ND◆	.68	.62	.52	—	—
	1.5	200	2	625	0.4	SOT-223-3	MCP1703-1502E/DB-ND◆	.68	.62	.52	—	—
	1.8	200	2	625	0.4	SOT-223-3	MCP1703-1802E/DB-ND◆	.68	.62	.52	—	—
	2.5	250	2	625	0.4	SOT-223-3	MCP1703-2502E/DB-ND◆	.68	.62	.52	—	—
	2.8	250	2	625	0.4	SOT-223-3	MCP1703-2802E/DB-ND◆ ***NEW!***	.68	.62	.52	—	—
	3.0	250	2	625	0.4	SOT-223-3	MCP1703-3002E/DB-ND◆	.68	.62	.52	—	—
	3.3	250	2	625	0.4	SOT-223-3	MCP1703-3302E/DB-ND◆	.68	.62	.52	—	—
	4.0	250	2	625	0.4	SOT-223-3	MCP1703-4002E/DB-ND◆ ***NEW!***	.68	.62	.52	—	—
	5.0	250	2	625	0.4	SOT-223-3	MCP1703-5002E/DB-ND◆	.68	.62	.52	—	—
	1.2	200	2	625	0.4	SOT-23A	MCP1703T-1202E/CBCT-ND◆†	.60	.54	.45	3,000	410.00/M
	1.2	200	2	625	0.4	SOT-89-3	MCP1703T-1202E/MBCT-ND◆†	.68	.54	.45	1,000	410.00
	1.2	200	2	625	0.4	8-DFN	MCP1703T-1202E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	1.8	200	2	625	0.4	SOT-23A	MCP1703T-1802E/CBCT-ND◆†	.68	.54	.45	3,000	410.00/M
	1.8	200	2	625	0.4	8-DFN	MCP1703T-1802E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	2.5	250	2	625	0.4	SOT-23A	MCP1703T-2502E/CBCT-ND◆†	.68	.54	.45	3,000	410.00/M
	2.5	250	2	625	0.4	SOT-89	MCP1703T-2502E/MBCT-ND◆†	.68	.54	.45	1,000	410.00
	2.5	250	2	625	0.4	8-DFN	MCP1703T-2502E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	2.8	250	2	625	0.4	SOT-23A-3	MCP1703T-2802E/CBCT-ND◆† ***NEW!***	.65	.54	.45	3,000	410.00/M
	2.8	250	2	625	0.4	SOT-223-3	MCP1703T-2802E/DBCT-ND◆† ***NEW!***	.77	.62	.52	4,000	470.00/M
	2.8	250	2	625	0.4	SOT-89-3	MCP1703T-2802E/MBCT-ND◆† ***NEW!***	.65	.54	.45	1,000	410.00
	3.0	250	2	625	0.4	SOT-23A	MCP1703T-3002E/CBCT-ND◆†	.68	.54	.45	3,000	410.00/M
	3.0	250	2	625	0.4	SOT-89-3	MCP1703T-3002E/MBCT-ND◆†	.68	.54	.45	1,000	410.00
	3.0	250	2	625	0.4	8-DFN	MCP1703T-3002E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	3.3	250	2	625	0.4	SOT-23A	MCP1703T-3302E/CBCT-ND◆†	.68	.54	.45	3,000	410.00/M
	3.3	250	2	625	0.4	SOT-89-3	MCP1703T-3302E/MBCT-ND◆†	.68	.54	.45	1,000	410.00
	3.3	250	2	625	0.4	8-DFN	MCP1703T-3302E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	4.0	250	2	625	0.4	SOT-23A-3	MCP1703T-4002E/CBCT-ND◆† ***NEW!***	.65	.54	.45	3,000	410.00/M
	4.0	250	2	625	0.4	SOT-223-3	MCP1703T-4002E/DBCT-ND◆† ***NEW!***	.77	.62	.52	4,000	470.00/M
	4.0	250	2	625	0.4	SOT-89-3	MCP1703T-4002E/MBCT-ND◆† ***NEW!***	.65	.54	.45	1,000	410.00
	4.0	250	2	625	0.4	8-DFN	MCP1703T-4002E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
	5.0	250	2	625	0.4	SOT-23A	MCP1703T-5002E/CBCT-ND◆†	.68	.54	.45	3,000	410.00/M
	5.0	250	2	625	0.4	SOT-89-3	MCP1703T-5002E/MBCT-ND◆†	.68	.54	.45	1,000	410.00
	5.0	250	2	625	0.4	8-DFN	MCP1703T-5002E/MCCT-ND◆† ***NEW!***	.74	.61	.50	3,300	460.00/M
28	10.0	150	50	300	2	SOT-223-3	MCP1804T-A002I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	10.0	150	50	300	2	SOT-89-3	MCP1804T-A002I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	10.0	150	50	300	2	SOT-89-5	MCP1804T-A002I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	10.0	150	50	300	2	SOT-23-5	MCP1804T-A002I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	12.0	150	50	300	2	SOT-223-3	MCP1804T-C002I/DBCT-ND◆† ***NEW!***	.86	.70	.58	4,000	530.00/M
	12.0	150	50	300	2	SOT-89-3	MCP1804T-C002I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	12.0	150	50	300	2	SOT-89-5	MCP1804T-C002I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
								1	10	25	Qty.	Pricing
28	12.0	150	50	300	2	SOT-23-5	MCP1804T-C002I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	1.8	100	50	300	2	SOT-223-3	MCP1804T-1802I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	1.8	100	50	300	2	SOT-89-3	MCP1804T-1802I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	1.8	100	50	300	2	SOT-89-5	MCP1804T-1802I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	1.8	100	50	300	2	SOT-23-5	MCP1804T-1802I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	1.8	100	50	300	2	SOT-223-3	MCP1804T-1802I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	2.5	100	50	300	2	SOT-89-3	MCP1804T-2502I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	2.5	100	50	300	2	SOT-89-5	MCP1804T-2502I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	2.5	100	50	300	2	SOT-23-5	MCP1804T-2502I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	2.5	100	50	300	2	SOT-223-3	MCP1804T-2502I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.0	150	50	300	2	SOT-223-3	MCP1804T-3002I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.0	150	50	300	2	SOT-89-3	MCP1804T-3002I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.0	150	50	300	2	SOT-89-5	MCP1804T-3002I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.0	150	50	300	2	SOT-23-5	MCP1804T-3002I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	3.3	150	50	300	2	SOT-223-3	MCP1804T-3302I/DBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.3	150	50	300	2	SOT-89-3	MCP1804T-3302I/MBCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.3	150	50	300	2	SOT-89-5	MCP1804T-3302I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	3.3	150	50	300	2	SOT-23-5	MCP1804T-3302I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
	5.0	150	50	300	2	SOT-223-3	MCP1804T-5002I/DBCT-ND◆† ***NEW!***	.86	.70	.58	4,000	530.00/M
	5.0	150	50	300	2	SOT-89-3	MCP1804T-5002I/MBCT-ND◆† ***NEW!***	.86	.70	.58	4,000	530.00/M
	5.0	150	50	300	2	SOT-89-5	MCP1804T-5002I/MTCT-ND◆† ***NEW!***	.86	.70	.58	1,000	530.00
	5.0	150	50	300	2	SOT-23-5	MCP1804T-5002I/OTCT-ND◆† ***NEW!***	.81	.67	.56	3,000	510.00/M
48	3.0	70	70	700	0.2	SOT-223-5	MCP1791T-3002E/DCCT-ND◆†	.90	.73	.61	4,000	550.00/M
	3.3	70	70	700	0.2	SOT-223-5	MCP1791T-3302E/DCCT-ND◆†	.90	.73	.61	4,000	550.00/M
	5.0	70	70	700	0.2	SOT-223-5	MCP1791T-5002E/DCCT-ND◆†	.90	.73	.61	4,000	550.00/M
Evaluation Board for SOT223-3 Voltage Regulator							SOT223-3EV-VREG-ND◆ ***NEW!***	30.00	—	—	—	—
Evaluation Board for SOT23-3 Voltage Regulator							SOT23-3EV-VREG-ND◆	30.00	—	—	—	—
Evaluation Board for SOT23-5 Voltage Regulator							SOT23-5EV-VREG-ND◆ ***NEW!***	30.00	—	—	—	—
Evaluation Board for SOT89-3 Voltage Regulator							SOT89-3EV-VREG-ND◆ ***NEW!***	25.00	—	—	—	—
Evaluation Board for TC1016/TC1017							TC1016/17EV-ND	45.00	—	—	—	—
Evaluation Board for TO220-3/TO263-3 Voltage Regulator							TO263-3EV-VREG-ND◆ ***NEW!***	25.00	—	—	—	—
Demo Board for TC1303C							TC1303DM-DDBK2-ND	30.00	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

PWM Controllers

Input Voltage Range (V)	Quiescent Current	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
				1	10	25	Qty.	Pricing
2.7 ~ 5.5	45µA	8-DFN	MCP1602-120I/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-120I/MS-ND◆	1.14	1.04	.87	—	—
	45µA	8-DFN	MCP1602-150I/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-150I/MS-ND◆	1.14	1.04	.87	—	—
	45µA	8-DFN	MCP1602-180I/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-180I/MS-ND◆	1.14	1.04	.87	—	—
	45µA	8-DFN	MCP1602-250I/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-250I/MS-ND◆	1.14	1.04	.87	—	—
	45µA	8-DFN	MCP1602-330I/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-330I/MS-ND◆	1.14	1.04	.87	—	—
	45µA	8-DFN	MCP1602-ADJI/MF-ND◆	1.24	1.13	.94	—	—
	45µA	8-MSOP	MCP1602-ADJI/MS-ND◆	1.14	1.04	.87	—	—
	45µA	TSOT-5	MCP1603T-120I/OSCT-ND◆†	1.19	.98	.82	—	—
	45µA	TSOT-5	MCP1603T-180I/OSCT-ND◆†	1.19	.98	.82	3,000	740.01/M
	45µA	TSOT-5	MCP1603T-250I/OSCT-ND◆†	1.19	.98	.82	—	—
	45µA	TSOT-5	MCP1603T-330I/OSCT-ND◆†	1.19	.98	.82	3,000	740.01/M
	45µA	TSOT-5	MCP1603T-ADJI/OSCT-ND◆†	1.19	.98	.82	3,000	740.01/M
3.0 ~ 5.5	2.8mA	8-MSOP	MCP1630-E/MS-ND◆	1.18	1.09	.91	—	—
	2.8mA	8-MSOP	MCP1630V-E/MS-ND◆	1.18	1.09	.91	—	—
	2.8mA	8-MSOP	MCP1630VT-E/MSCT-ND◆†	1.33	1.09	.91	2,500	820.00/M
	3.7mA	20-QFN	MCP1631-E/ML-ND◆	1.78	1.48	1.23	—	—
	3.7mA	20-SSOP	MCP1631-E/SS-ND◆	1.78	1.48	1.23	—	—
	3.7mA	20-TSSOP	MCP1631-E/ST-ND◆	1.68	1.54	1.28	—	—
	3.7mA	20-QFN	MCP1631V-E/ML-ND◆	1.78	1.48	1.23	—	—
	3.7mA	20-SSOP	MCP1631V-E/SS-ND◆	1.78	1.48	1.23	—	—
	3.7mA	20-TSSOP	MCP1631V-E/ST-ND◆	1.68	1.54	1.28	—	—
3.5 ~ 16	3.7mA	20-SSOP	MCP1631HV-330E/SS-ND◆	1.78	1.63	1.36	—	—
	3.7mA	20-TSSOP	MCP1631HV-330E/ST-ND◆	1.84	1.69	1.41	—	—
	3.7mA	20-SSOP	MCP1631HV-500E/SS-ND◆	1.78	1.63	1.36	—	—
	3.7mA	20-TSSOP	MCP1631HV-500E/ST-ND◆	1.84	1.69	1.41	—	—
	3.7mA	20-SSOP	MCP1631VHV-330E/SS-ND◆	1.78	1.63	1.36	—	—
	3.7mA	20-TSSOP	MCP1631VHV-330E/ST-ND◆	1.84	1.69	1.41	—	—
	3.7mA	20-TSSOP	MCP1631VHVT-330E/STCT-ND◆†	2.07	1.69	1.41	2,500	1280.00/M
	3.7mA	20-SSOP	MCP1631VHV-500E/SS-ND◆	1.78	1.63	1.36	—	—
	3.7mA	20-TSSOP	MCP1631VHV-500E/ST-ND◆	1.84	1.69	1.41	—	—
2.7 ~ 5.5	120µA	MSOP-8	MCP1650R-E/MS-ND◆	1.42	1.30	1.09	—	—
	120µA	MSOP-8	MCP1650S-E/MS-ND◆	1.42	1.30	1.09	—	—
	120µA	MSOP-8	MCP1651R-E/MS-ND◆	1.50	1.37	1.14	—	—
	120µA	MSOP-8	MCP1651S-E/MS-ND◆	1.50	1.37	1.14	—	—
	120µA	MSOP-8	MCP1652R-E/MS-ND◆	1.50	1.37	1.14	—	—
	120µA	MSOP-10	MCP1653R-E/UN-ND◆	1.58	1.44	1.20	—	—
	120µA	MSOP-10	MCP1653S-E/UN-ND◆	1.58	1.44	1.20	—	—
Demo Board for MCP1630			MCP1630DM-NMC1-ND	45.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-DDBK1-ND	65.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBK1-ND	25.00	—	—	—	—
Evaluation Board for TC110 Battery Charger			TC110DM-ND◆ ***NEW!***	40.00	—	—	—	—
Evaluation Board for TC115			TC115EV-ND	15.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBS1-ND	35.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBS2-ND	45.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBK4-ND	50.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-DDBK3-ND	70.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-NMC1-ND	35.00	—	—	—	—
Demo Board for MCP1630, Boost Mode LED Driver			MCP1630DM-LED2-ND	30.00	—	—	—	—
Reference Design Board for MCP1631HV			MCP1631RD-MCC2-ND◆	40.00	—	—	—	—
Reference Design Battery Charger or LED Driver			MCP1631RD-DCPC1-ND◆ ***NEW!***	45.00	—	—	—	—
Demo Board for TC1303B Buck Regulator LDO			TC1303BDM-DDBK1-ND	25.00	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Switching Regulators

Description	Input Voltage Range (V)	Output Voltage (V)	Operating Temperature Range (°C)	Output	Control Scheme	Switching Frequency (kHz)	Typical Active Supply (µA)	Output Current (mA)	Package	Digi-Key Part No.	Price Each 1	10	25
Buck Regulator	2.7 ~ 5.5	0.8 ~ 4.5	-40 ~ 85	0.8V ~ 4.5V	PFM/PWM	2,000	45	500	8-DFN	MCP1603-ADJI/MC-ND◆ ***NEW!***	1.16	1.06	.88
Step-Down	2.7 ~ 5.5	0.8 ~ 5.0	-40 ~ 85	Adjustable	PWM	1,400	5,000	1,000	8-MSOP	MCP1612-ADJI/MS-ND◆	1.66	1.52	1.27
Step-Up	0.35	2.0 ~ 5.5	-40 ~ 85	Variable	PWM	500	220	175	SOT-23-6	MCP1623T-I/CHYCT-ND◆† ***NEW!***	.56	.45	.38
Step-Up	0.35	2.0 ~ 5.5	-40 ~ 85	Variable	PWM	500	220	175	SOT-23-6	MCP1623T-I/CHYTR-ND◆▲ ***NEW!***	1020.00/3,000		
Step-Up	0.35	2.0 ~ 5.5	-40 ~ 85	Variable	PFM/PWM	500	19	175	SOT-23-6	MCP1624T-I/CHYCT-ND◆† ***NEW!***	.56	.45	.38
Step-Up	0.35	2.0 ~ 5.5	-40 ~ 85	Variable	PFM/PWM	500	19	175	SOT-23-6	MCP1624T-I/CHYTR-ND◆▲ ***NEW!***	1020.00/3,000		
Evaluation Board for MCP1612										MCP1612EV-ND	35.00	—	—

◆ ***RoHS Compliant*** † Cut Tape ▲ Tape and Reel

Battery Management

Linear Mode	No. of Li-Ion Cells	Vcc Range (V)	Typical Reverse Leakage Current (µA)	Temperature Range (°C)	Integrated FET	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel‡ Qty.	Pricing
Yes	1	4 ~ 16	0.5	-40 ~ 85	Internal	10-DFN	MCP73113-06SI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73113-16SI/MF-ND◆ ***NEW!***	1.22	1.12	.93	—	—
Yes	1	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73114-0NSI/MF-ND◆ ***NEW!***	1.24	1.12	.93	—	—
Yes	1	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73114-1NSI/MF-ND◆ ***NEW!***	1.22	1.12	.93	—	—
Yes	1	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73123-22SI/MF-ND◆ ***NEW!***	1.22	1.12	.93	—	—
—	—	—	—	-40 ~ 85	Internal	10-DFN	MCP73124-2JAI/MF-ND◆ ***NEW!***	1.22	1.12	.93	—	—
Yes	2	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73213-A6SI/MF-ND◆ ***NEW!***	1.94	1.79	1.49	—	—
Yes	2	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73213-B6SI/MF-ND◆ ***NEW!***	1.94	1.79	1.49	—	—
Yes	2	4 ~ 16	0.7	-40 ~ 85	Internal	10-DFN	MCP73223-C2SI/MF-ND◆ ***NEW!***	1.94	1.79	1.49	—	—
Yes	1	3.75 ~ 6.0	1	-40 ~ 85	Internal	SOT-23-5	MCP73811T-420I/OTCT-ND◆†	.63	.51	.43	3,000	390.00/M
Yes	1	3.75 ~ 6.0	1	-40 ~ 85	Internal	SOT-23-5	MCP73812T-420I/OTCT-ND◆†	.68	.54	.45	3,000	410.00/M
Yes	1	4.5 ~ 5.5	8	-20 ~ 85	External	SOT-23-6	MCP73826-4.2VCHCT-ND◆†	1.08	.90	.75	3,000	680.00/M
Yes	1	4.5 ~ 5.5	8	-20 ~ 85	External	8-MSOP	MCP73827-4.1VUA-ND	1.15	.96	.80	—	—
Yes	1	4.5 ~ 5.5	8	-20 ~ 85	External	8-MSOP	MCP73827-4.2VUA-ND◆	1.15	.96	.80	—	—
Yes	1	4.5 ~ 5.5	1	-20 ~ 85	External	8-MSOP	MCP73828-4.2VUA-ND	1.15	.96	.80	—	—
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73831T-2ACI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73831T-2ATI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73831T-2DCI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73832T-2ACI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73832T-2ATI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73832T-2DCI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	SOT-23-5	MCP73832T-2DFI/OTCT-ND◆†	.68	.56	.47	3,000	420.00/M
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	10-MSOP	MCP73833-AMI/UN-ND◆	.94	.85	.71	—	—
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	10-MSOP	MCP73833-FCI/UN-ND◆	.94	.85	.71	—	—
Yes	1	3.75 ~ 6.0	0.15	-40 ~ 85	Internal	10-MSOP	MCP73834-FCI/UN-ND◆	.94	.85	.71	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73837-FCI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-MSOP	MCP73837-FCI/UN-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73837-FJI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73837-NVI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73837T-FCI/MFCT-ND◆†	1.37	1.12	.93	3,300	850.00/M
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-MSOP	MCP73837-NVI/UN-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73838-FCI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73838-FJI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73838-NVI/MF-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-MSOP	MCP73838-NVI/UN-ND◆	1.22	1.12	.93	—	—
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73838T-FCI/MFCT-ND◆†	1.37	1.12	.93	3,300	850.00/M
Yes	1	3.75 ~ 6.0	0.5	-40 ~ 85	Internal	10-DFN	MCP73838T-FJI/MFCT-ND◆†	1.37	1.12	.93	3,300	850.00/M
Yes	1	4.5 ~ 12	0.4	-40 ~ 85	External	10-MSOP	MCP73841-420I/UN-ND◆	1.55	1.29	1.07	—	—
Yes	2	8.7 ~ 12	0.4	-40 ~ 85	External	10-MSOP	MCP73842-840I/UN-ND◆	1.64	1.37	1.14	—	—
Yes	1	4.5 ~ 12	0.4	-40 ~ 85	External	8-MSOP	MCP73843-420I/MS-ND◆	1.48	1.23	1.02	—	—
Yes	2	8.7 ~ 12	0.4	-40 ~ 85	External	8-MSOP	MCP73844-840I/MS-ND◆	1.56	1.30	1.09	—	—
Yes	1	4.5 ~ 5.5	0.24	-40 ~ 85	Internal	16-QFN	MCP73853-I/ML-ND◆	2.15	1.79	1.49	—	—
Yes	1	4.5 ~ 5.5	0.24	-40 ~ 85	Internal	16-QFN	MCP73853T-I/MLCT-ND◆†	2.12	1.79	1.49	—	—
Yes	1	4.5 ~ 5.5	0.24	-40 ~ 85	Internal	10-DFN	MCP73855-I/MF-ND◆	1.86	1.55	1.29	—	—
Yes	1	4.5 ~ 5.5	0.24	-40 ~ 85	Internal	10-DFN	MCP73855T-I/MFCT-ND◆†	1.85	1.55	1.29	3,300	1180.00/M
Yes	1	4.5 ~ 12	0.5	-40 ~ 85	Internal	16-SOIC	MCP73861-I/SL-ND◆	2.32	1.93	1.60	—	—
Yes	2	8.7 ~ 12	0.23	-40 ~ 85	Internal	16-SOIC	MCP73862-I/SL-ND◆	2.60	2.17	1.81	—	—
Yes	2	8.7 ~ 12	0.23	-40 ~ 85	Internal	16-QFN	MCP73862T-I/MLCT-ND◆† ***NEW!***	2.57	2.17	1.81	3,300	1650.01/M
Yes	1	4.5 ~ 12	0.5	-40 ~ 85	Internal	16-QFN	MCP73863-I/ML-ND◆	2.32	1.93	1.60	—	—
Yes	1	4.5 ~ 12	0.5	-40 ~ 85	Internal	16-SOIC	MCP73863-I/SL-ND◆	2.32	1.93	1.60	—	—
Yes	2	8.7 ~ 12	0.5	-40 ~ 85	Internal	16-QFN	MCP73864-I/ML-ND◆	2.60	2.17	1.81	—	—
Yes	2	8.7 ~ 12	0.23	-40 ~ 85	Internal	16-SOIC	MCP73864-I/SL-ND◆	2.60	2.17	1.81	—	—
Yes	1	4.4 ~ 6.0	30	-40 ~ 85	Internal	20-QFN	MCP73871-2AAI/ML-ND◆	1.94	1.79	1.49	—	—
Yes	1	4.4 ~ 6.0	30	-40 ~ 85	Internal	20-QFN	MCP73871-2CAI/ML-ND◆	1.94	1.79	1.49	—	—
Yes	1	4.4 ~ 6.0	30	-40 ~ 85	Internal	20-QFN	MCP73871-2CCI/ML-ND◆	1.94	1.79	1.49	—	—
Reference Design Power Path for MCP7383X							MCP7383XRD-PPM-ND◆	40.00	—	—	—	—
Evaluation Board for MCP73833							MCP73833EV-ND	20.00	—	—	—	—
Evaluation Kit for MCP7384X							MCP7384XEV-ND◆	45.00	—	—	—	—
Evaluation Board for MCP7386X							MCP7386XEV-ND◆	30.00	—	—	—	—
Demo Board for MCP73871 with Voltage Proportional Current Control(VPCC)							MCP73871DM-VPCC-ND◆ ***NEW!***	20.00	—	—	—	—
Evaluation Board for MCP73871							MCP73871EV-ND◆	20.00	—	—	—	—
Evaluation Board Battery Charger for MCP73113							MCP73113EV-1SOVP-ND◆ ***NEW!***	19.99	—	—	—	—
Evaluation Board Battery Charger for MCP73213							MCP73213EV-2SOVP-ND◆ ***NEW!***	19.99	—	—	—	—
Evaluation Board Battery Charger for MCP73X23							MCP73X23EV-LFP-ND◆ ***NEW!***	24.99	—	—	—	—
Single Chip Battery Manager, 28-SSOP							PS402-I/SS042-ND	4.05	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Power MOSFET Drivers

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/Rl) (Max. 0 @ 25°C)	Maximum Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
									1	10	25	Qty.	Pricing
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E3-E/P-ND◆	1.94	1.77	1.48	—	—
	Dual	Inverting	4.5	2.2/2.8	22	40/40	8-DFN	MCP14E3-E/MF-ND◆	2.08	1.89	1.58	—	—
	Dual	Inverting	4.5	2.2/2.8	22	40/40	8-SOIC	MCP14E3-E/SN-ND◆	1.90	1.74	1.45	—	—
	Dual	Non-Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E4-E/P-ND◆	2.02	1.86	1.55	—	—
	Dual	Non-Inverting	4.5	2.2/2.8	22	40/40	8-DFN	MCP14E4-E/MF-ND◆	2.18	2.00	1.67	—	—
	Dual	Non-Inverting	4.5	2.2/2.8	22	40/40	8-SOIC	MCP14E4-E/SN-ND◆	1.98	1.82	1.51	—	—
	Dual	Inverting, Non-Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E5-E/P-ND◆	2.02	1.86	1.55	—	—
	Dual		4.5	2.2/2.8	22	40/40	8-DFN	MCP14E5-E/MF-ND◆	2.18	2.00	1.67	—	—
	Dual		4.5	2.2/2.8	22	40/40	8-SOIC	MCP14E5-E/SN-ND◆	1.98	1.82	1.51	—	—
Low-Side MOSFET Drivers, 0.5A~ 1.2A Peak Output Current	Single	Inverting	0.5	18/16	18	40/40	SOT23-5	MCP1401T-E/OTCT-ND◆†	.77	.62	.52	3,000	470.00/M
	Single	Non-Inverting	0.5	18/16	18	40/40	SOT23-5	MCP1402T-E/OTCT-ND◆†	.77	.62	.52	3,000	470.00/M
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1403-E/P-ND◆	1.94	1.77	1.48	—	—
	Dual	Inverting	4.5	2.8/2.2	18	40/40	8-DFN	MCP1403-E/MF-ND◆	2.08	1.89	1.58	—	—
	Dual	Inverting	4.5	2.8/2.2	18	40/40	8-SOIC	MCP1403-E/SN-ND◆	1.90	1.74	1.45	—	—
	Dual	Inverting	4.5	2.8/2.2	18	40/40	16-SOIC	MCP1403-E/SO-ND◆	2.00	1.83	1.53	—	—
	Dual	Non-Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1404-E/P-ND◆	2.02	1.86	1.55	—	—
	Dual	Non-Inverting	4.5	2.8/2.2	18	40/40	8-DFN	MCP1404-E/MF-ND◆	2.18	2.00	1.67	—	—
	Dual	Non-Inverting	4.5	2.8/2.2	18	40/40	8-SOIC	MCP1404-E/SN-ND◆	1.98	1.82	1.51	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting, Non-Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1405-E/P-ND◆	2.02	1.86	1.55	—	—
	Dual		4.5	2.8/2.2	18	40/40	8-DFN	MCP1405-E/MF-ND◆	2.18	2.00	1.67	—	—
	Dual		4.5	2.8/2.2	18	40/40	8-SOIC	MCP1405-E/SN-ND◆	1.98	1.82	1.51	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.1/1.5	18	40/40	8-DIP	MCP1406-E/P-ND◆	1.06	.98	.82	—	—
	Single	Inverting	6	2.1/1.5	18	40/40	TO-220-5	MCP1406-E/AT-ND◆	1.78	1.63	1.36	—	—
	Single	Inverting	6	2.1/1.5	18	40/40	8-DFN	MCP1406-E/MF-ND◆	1.16	1.06	.88	—	—
	Single	Inverting	6	2.1/1.5	18	40/40	8-SOIC	MCP1406-E/SN-ND◆	1.04	.96	.80	—	—
	Single	Non-Inverting	6	2.1/1.5	18	40/40	8-DIP	MCP1407-E/P-ND◆	1.06	.98	.82	—	—
	Single	Non-Inverting	6	2.1/1.5	18	40/40	TO-220-5	MCP1407-E/AT-ND◆	1.78	1.63	1.36	—	—
	Single	Non-Inverting	6	2.1/1.5	18	40/40	8-DFN	MCP1407-E/MF-ND◆	1.16	1.06	.88	—	—
	Single	Non-Inverting	6	2.1/1.5	18	40/40	8-SOIC	MCP1407-E/SN-ND◆	1.04	.96	.80	—	—
Low Side High-Speed MOSFET Drivers, 1.5A Peak Output Current	Single	Inverting	1.5	7.5/5.5	18	50/55	TSOT-23-5	MCP1415T-E/OTCT-ND◆†	.77	.62	.52	3,000	470.00/M
	Single	Non-Inverting	1.5	7.5/5.5	18	50/55	TSOT-23-5	MCP1416T-E/OTCT-ND◆†	.77	.62	.52	3,000	470.00/M
High-Side/Low-Side MOSFET Drivers, 2A Peak Output Current	Single	Non-Inverting	2	2.5/2.5	5	25/25	8-SOIC	MCP14628-E/SN-ND◆	1.78	1.63	1.36	—	—
	Single	Non-Inverting	2	2.5/2.5	6	25/25	8-DFN	MCP14700-E/MF-ND◆ ***NEW!***	2.04	1.86	1.55	—	—
	Single	Non-Inverting	2	2.5/2.5	6	25/25	8-SOIC	MCP14700-E/SN-ND◆ ***NEW!***	1.78	1.63	1.36	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	15/10	18	50/75	8-SOIC	TC426COA-ND◆	1.33	1.11	.92	—	—
	Dual	Inverting	1.5	15/10	18	50/75	8-DIP	TC426CPA-ND◆	1.37	1.14	.95	—	—
	Dual	Inverting	1.5	15/10	18	50/75	8-SOIC	TC426EOA-ND◆	1.33	1.11	.92	—	—
	Dual	Inverting	1.5	15/10	18	50/75	8-CDIP	TC426MJA-ND◆	13.06	10.88	9.06	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC427COA-ND◆	1.33	1.11	.92	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-DIP	TC427CPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC427EOA-ND◆	1.33	1.11	.92	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-DIP	TC427EPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-CDIP	TC427MJA-ND◆	13.06	10.88	9.06	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC428COA-ND◆	1.33	1.11	.92	—	—
	Dual	Non-Inverting	1.5	15/10	18	50/75	8-DIP	TC428CPA-ND◆	1.37	1.14	.95	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.5/2.5	18	53/60	8-DIP	TC429CPA-ND◆	1.87	1.56	1.30	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Single	Inverting	0.5	22/22	16	40/40	8-SOIC	TC1410EOA-ND◆	1.37	1.14	.95	—	—
	Single	Inverting	0.5	22/22	16	40/40	8-DIP	TC1410EPA-ND◆	1.39	1.16	.97	—	—
	Single	Non-Inverting	0.5	22/22	16	40/40	8-SOIC	TC1410NEOA-ND◆	1.37	1.14	.95	—	—
	Single	Non-Inverting	0.5	22/22	16	40/40	8-DIP	TC1410NEPA-ND◆	1.39	1.16	.97	—	—
	Single	Inverting	1	11/11	20	40/40	8-DIP	TC1411CPA-ND◆	1.37	1.14	.95	—	—
	Single	Inverting	1	11/11	20	40/40	8-SOIC	TC1411EOA-ND◆	1.39	1.16	.97	—	—
	Single	Inverting	1	11/11	20	40/40	8-DIP	TC1411EPA-ND◆	1.43	1.19	.99	—	—
	Single	Non-Inverting	1	11/11	20	40/40	8-SOIC	TC1411NEOA-ND◆	1.39	1.16	.97	—	—
	Single	Non-Inverting	1	11/11	20	40/40	8-DIP	TC1411NCPA-ND◆	1.37	1.14	.95	—	—
	Single	Non-Inverting	1	11/11	16	40/40	8-DIP	TC1411NEPA-ND◆	1.43	1.19	.99	—	—
Low-Side High-Speed MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	2	6/6	16	35/35	8-SOIC	TC1412EOA-ND◆	1.68	1.40	1.17	—	—
	Single	Non-Inverting	2	6/6	16	35/35	8-SOIC	TC1412NEOA-ND◆	1.68	1.40	1.17	—	—
	Single	Non-Inverting	2	6/6	16	35/35	8-DIP	TC1412NEPA-ND◆	1.74	1.45	1.21	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	3	4/4	16	45/45	8-SOIC	TC1413EOA-ND◆	1.78	1.48	1.23	—	—
	Single	Inverting	3	4/4	16	45/45	8-DIP	TC1413EPA-ND◆	1.80	1.50	1.25	—	—
	Single	Non-Inverting	3	4/4	16	45/45	8-DIP	TC1413NCPA-ND◆	1.74	1.45	1.21	—	—
	Single	Non-Inverting	3	4/4	16	45/45	8-SOIC	TC1413NEOA-ND◆	1.78	1.48	1.23	—	—
	Single	Non-Inverting	3	4/4	16	45/45	8-DIP	TC1413NEPA-ND◆	1.80	1.50	1.25	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Dual	Inverting	1.2	18/18	16	75/75	8-SOIC	TC1426COA-ND◆	1.24	1.03	.86	—	—
	Dual	Inverting	1.2	18/18	16	75/75	8-SOIC	TC1426COA713CT-ND†	1.24	1.03	.86	—	—
	Dual	Inverting	1.2	18/18	16	75/75	8-DIP	TC1426CPA-ND◆	1.24	1.03	.86	—	—
	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1427COA-ND◆	1.24	1.03	.86	—	—
	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1427COA713CT-ND◆†	1.24	1.03	.86	—	—
	Dual	Non-Inverting	1.2	18/18	16	75/75	8-DIP	TC1427CPA-ND◆	1.24	1.03	.86	—	—
	Dual	Non-Inverting	1.2	18/12	16	75/75	8-DIP	TC1427EPA-ND◆	1.58	1.32	1.10	—	—
	Dual	Non-Inverting	1.2	18/12	16	75/75	8-DIP	TC1427VPA-ND◆	1.58	1.32	1.10	—	—
	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1428COA-ND◆	1.24	1.03	.86	—	—
Low-Side MOSFET Driver, 1.5A Peak Output Current	Single	Non-Inverting	1.5	5/5	18	75/75	8-DIP	TC4403EPA-ND◆	3.23	2.69	2.24	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	10/10	18	15/32	8-SOIC	TC4404COA-ND◆	3.07	2.56	2.13	—	—
	Dual	Inverting	1.5	10/10	18	15/32	8-DIP	TC4404CPA-ND◆	3.17	2.64	2.20	—	—
	Dual	Inverting	1.5	10/10	18	15/32	8-SOIC	TC4404EOA-ND◆	3.23	2.69	2.24	—	—
	Dual	Inverting	1.5	10/10	18	15/32	8-DIP	TC4404EPA-ND◆	3.32	2.77	2.31	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ▲ Tape and Reel *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Power Management

Power MOSFET Drivers *(Cont.)*

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/RI) (Max. O @ 25°C)	Maximum Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
									1	10	25	Qty.	Pricing
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	30/50	8-SOIC	TC4405COA-ND◆	3.07	2.56	2.13	—	—
	Dual	Non-Inverting	1.5	10/10	18	30/50	8-DIP	TC4405CPA-ND◆	3.17	2.64	2.20	—	—
	Dual	Non-Inverting	1.5	10/10	18	30/50	8-DIP	TC4405EPA-ND◆	3.32	2.77	2.31	—	—
	Dual	Non-Inverting	1.5	10/10	18	30/50	8-SOIC	TC4405EOA-ND◆	3.23	2.69	2.24	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4420COA-ND◆	1.68	1.40	1.17	—	—
	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-DIP	TC4420CPA-ND◆	1.72	1.43	1.19	—	—
	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-DIP	TC4420EPA-ND◆	1.74	1.45	1.21	—	—
	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-CDIP	TC4420MJA-ND◆	18.35	15.29	12.74	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	TO-220-5	TC4421AVAT-ND◆	2.56	2.36	1.97	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	8-DFN	TC4421AVMF-ND◆	2.28	2.08	1.73	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	8-SOIC	TC4421AVOA-ND◆	2.00	1.83	1.53	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	8-DIP	TC4421AVPA-ND◆	2.06	1.88	1.57	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	TO-220-5	TC4421CAT-ND◆	4.18	3.48	2.90	—	—
	Single	Inverting	9	2.4/1.7	18	30/33	8-DIP	TC4421CPA-ND◆	3.32	2.77	2.31	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	TO-220-5	TC4422AVAT-ND◆	2.56	2.36	1.97	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	8-DFN	TC4422AVMF-ND◆	2.28	2.08	1.73	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	8-SOIC	TC4422AVOA-ND◆	2.00	1.83	1.53	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	8-DIP	TC4422AVPA-ND◆	2.06	1.88	1.57	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	8-DIP	TC4422CPA-ND◆	3.32	2.77	2.31	—	—
	Single	Non-Inverting	9	2.4/1.7	18	30/33	8-DIP	TC4422EPA-ND◆	3.48	2.90	2.42	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	4.5	3/3.5	18	48/48	8-SOIC	TC4423AVOA-ND◆	1.80	1.65	1.37	—	—
	Dual	Inverting	4.5	3/3.5	18	48/48	8-DIP	TC4423AVPA-ND◆	1.84	1.69	1.41	—	—
	Dual	Inverting	4.5	5/5	18	33/38	16-SOIC	TC4423COE-ND◆	3.04	2.53	2.11	—	—
	Dual	Inverting	4.5	5/5	18	33/38	8-DIP	TC4423CPA-ND◆	2.72	2.27	1.89	—	—
	Dual	Non-Inverting	4.5	3/3.5	18	48/48	8-SOIC	TC4424AVOA-ND◆	1.80	1.65	1.37	—	—
	Dual	Non-Inverting	4.5	3/3.5	18	48/48	8-DIP	TC4424AVPA-ND◆	1.84	1.69	1.41	—	—
	Dual	Non-Inverting	4.5	5/5	18	33/38	8-DIP	TC4424CPA-ND◆	2.72	2.27	1.89	—	—
	Dual	Non-Inverting	4.5	5/5	18	33/38	(wide)16-SOIC	TC4424COE-ND◆	3.04	2.53	2.11	—	—
	Dual	Non-Inverting	4.5	5/5	18	75/75	16-SOIC	TC4424AVOE-ND◆ ***NEW!***	3.32	2.77	2.31	—	—
	Dual	Complementary	4.5	3/3.5	18	48/48	8-SOIC	TC4425AVOA-ND◆	1.80	1.65	1.37	—	—
	Dual	Complementary	4.5	3/3.5	18	48/48	8-DIP	TC4425AVPA-ND◆	1.84	1.69	1.41	—	—
	Dual	Complementary	4.5	5/5	18	33/38	8-DIP	TC4425CPA-ND◆	2.72	2.27	1.89	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	9/9	18	35/35	8-SOIC	TC4426AEOA-ND◆	1.24	1.03	.86	—	—
	Dual	Inverting	1.5	9/9	18	35/35	8-DIP	TC4426AEPA-ND◆	1.37	1.14	.95	—	—
	Dual	Inverting	1.5	10/10	18	20/40	8-SOIC	TC4426COA-ND◆	1.30	1.08	.90	—	—
	Dual	Inverting	1.5	10/10	18	20/40	8-DIP	TC4426CPA-ND◆	1.37	1.14	.95	—	—
	Dual	Inverting	1.5	10/10	18	20/40	8-SOIC	TC4426EOA-ND◆	1.33	1.11	.92	—	—
	Dual	Inverting	1.5	10/10	18	20/40	8-DIP	TC4426EPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	9/9	18	30/30	8-SOIC	TC4427ACOA-ND◆	1.01	.84	.70	—	—
	Dual	Non-Inverting	1.5	9/9	18	30/30	8-DIP	TC4427ACPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	9/9	18	30/30	8-SOIC	TC4427AEOA-ND◆	1.24	1.03	.86	—	—
	Dual	Non-Inverting	1.5	9/9	18	35/35	8-DIP	TC4427AEPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4427COA-ND◆	1.30	1.08	.90	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4427COA713CT-ND◆†	1.30	1.08	.90	3,300	820.00/M
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-DIP	TC4427CPA-ND◆	1.33	1.11	.92	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-DIP	TC4427EPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4427EOA-ND◆	1.33	1.11	.92	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Complementary	1.5	9/9	18	35/35	8-SOIC	TC4428AEOA-ND◆	1.24	1.03	.86	—	—
	Dual	Complementary	1.5	9/9	18	35/35	8-DIP	TC4428AEPA-ND◆	1.37	1.14	.95	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4428COA-ND◆	1.30	1.08	.90	—	—
	Dual	Non-Inverting	1.5	10/10	18	30/50	8-SOIC	TC4428COA713TR-ND◆▲	—	—	—	3,300	820.00/M
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-DIP	TC4428CPA-ND◆	1.33	1.11	.92	—	—
	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4428EOA-ND◆	1.33	1.11	.92	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4429COA-ND◆	1.68	1.40	1.17	—	—
	Single	Inverting	6	2.8/2.5	18	55/55	8-DIP	TC4429CPA-ND◆	1.72	1.43	1.19	—	—
High-Side/Low-Side MOSFET Drivers	Single	Inverting	1.5	10/10	30	80/90	8-SOIC	TC4431EOA-ND◆	3.23	2.69	2.24	—	—
	Single	Inverting	1.5	10/10	30	80/90	8-DIP	TC4431EPA-ND◆	3.32	2.77	2.31	—	—
	Single	Inverting	1.5	10/10	30	80/90	8-SOIC	TC4431VOA713CT-ND◆†	3.26	2.72	2.27	3,300	2060.00/M
	Single	Non-Inverting	1.5	10/10	30	62/78	8-SOIC	TC4432COA-ND◆	3.07	2.56	2.13	—	—
	Single	Non-Inverting	1.5	10/10	30	62/78	8-DIP	TC4432CPA-ND◆	3.17	2.64	2.20	—	—
	Single	Non-Inverting	1.5	10/10	30	80/90	8-SOIC	TC4432EOA-ND◆	3.23	2.69	2.24	—	—
	Single	Non-Inverting	1.5	10/10	30	80/90	8-DIP	TC4432EPA-ND◆	3.32	2.77	2.31	—	—
	Single	Non-Inverting	1.5	10/10	30	80/90	8-SOIC	TC4432VOA713CT-ND◆†	3.26	2.72	2.27	3,300	2060.00/M
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	13	1.5/1.5	18	52/52	8-SOIC	TC4451VOA-ND◆	2.28	2.08	1.73	—	—
	Single	Inverting	13	1.5/1.5	18	52/52	8-DIP	TC4451VPA-ND◆	2.32	2.13	1.77	—	—
	Single	Non-Inverting	13	1.5/1.5	18	52/52	8-DIP	TC4452VPA-ND◆	2.32	2.13	1.77	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Quad	Inverting	1.2	15/15	18	40/40	16-SOIC	TC4467COE-ND◆	5.06	4.22	3.52	—	—
	Quad	Inverting	1.2	15/15	18	40/40	14-DIP	TC4467CPD-ND◆	3.71	3.09	2.57	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	14-DIP	TC4468CPD-ND◆	3.07	2.56	2.13	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	16-SOIC	TC4468COE-ND◆	3.13	2.61	2.18	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	14-DIP	TC4468EPD-ND◆	3.13	2.61	2.18	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	14-DIP	TC4469CPD-ND◆	3.07	2.56	2.13	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	(wide)16-SOIC	TC4469COE-ND◆	3.13	2.61	2.18	—	—
	Quad	Non-Inverting	1.2	15/15	18	40/40	(wide)16-SOIC	TC4469COE713CT-ND◆†	3.13	2.61	2.18	1,000	1980.00
High-Side/Low Side High Speed MOSFET Drivers	Single	Inverting	1.5	15/10	6	45/55	(wide)16-SOIC	TC4626COE-ND◆	5.14	4.28	3.56	—	—
	Single	Non-Inverting	1.5	15/10	6	45/55	(wide)16-SOIC	TC4627EOE-ND◆	5.51	4.59	3.83	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ▲ Tape and Reel

Mixed Signal

Successive Approximation Register (SAR) A/D Converters

Resolution (bits)	Max. Sample Rate (ksamples/sec.)	No. of Input Channels	Interface	Input Voltage Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
							1	10	25	Qty.	Pricing
10	200	1	SPI™	2.7 ~ 5.5	8-MSOP	MCP3001-I/MS-ND	1.99	1.66	1.38	—	—
	200	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3001-I/P-ND◆	1.99	1.66	1.38	—	—
	200	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3001-I/SN-ND◆	1.99	1.66	1.38	—	—
	200	1	SPI™	2.7 ~ 5.5	8-TSSOP	MCP3001-I/ST-ND◆	1.99	1.66	1.38	—	—
	200	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3001T-I/SNCT-ND◆†	1.96	1.66	1.38	3,300	1260.01/M
	200	2	SPI™	2.7 ~ 5.5	8-MSOP	MCP3002-I/MS-ND◆	2.15	1.79	1.49	—	—
	200	2	SPI™	2.7 ~ 5.5	8-DIP	MCP3002-I/P-ND◆	2.15	1.79	1.49	—	—
	200	2	SPI™	2.7 ~ 5.5	8-SOIC	MCP3002-I/SN-ND◆	2.15	1.79	1.49	—	—
	200	2	SPI™	2.7 ~ 5.5	8-TSSOP	MCP3002-I/ST-ND◆	2.15	1.79	1.49	—	—
	200	4	SPI™	2.7 ~ 5.5	14-DIP	MCP3004-I/P-ND◆	2.50	2.08	1.73	—	—
	200	4	SPI™	2.7 ~ 5.5	8-MSOP	MCP3004-I/SL-ND◆	2.50	2.08	1.73	—	—
	200	4	SPI™	2.7 ~ 5.5	14-TSSOP	MCP3004-I/ST-ND◆	2.50	2.08	1.73	—	—
	200	8	SPI™	2.7 ~ 5.5	16-DIP	MCP3008-I/P-ND◆	2.63	2.19	1.82	—	—
	200	8	SPI™	2.7 ~ 5.5	16-SOIC	MCP3008-I/SL-ND◆	2.63	2.19	1.82	—	—
	22.3	1	I²C™ Compatible/SPI™	2.7 ~ 5.5	SOT-23A-5	MCP3021A5T-E/OTCT-ND◆†	1.67	1.41	1.18	3,000	1070.01/M
12	100	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3201-CI/P-ND◆	2.74	2.28	1.90	—	—
	100	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3201-CI/SN-ND◆	2.74	2.28	1.90	—	—
	100	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3201-BI/P-ND◆	3.19	2.66	2.21	—	—
	100	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3201-BI/SN-ND◆	3.19	2.66	2.21	—	—
	100	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3201T-CI/SNCT-ND◆†	2.70	2.28	1.90	3,300	1730.01/M
	100	1	SPI™	2.7 ~ 5.5	8-TSSOP	MCP3201-CI/ST-ND◆	2.74	2.28	1.90	—	—
	100	2	SPI™	2.7 ~ 5.5	8-SOIC	MCP3202-BI/SN-ND◆	3.47	2.89	2.41	—	—
	100	2	SPI™	2.7 ~ 5.5	8-DIP	MCP3202-BI/P-ND◆	3.47	2.89	2.41	—	—
	100	2	SPI™	2.7 ~ 5.5	8-MSOP	MCP3202-CI/MS-ND◆	3.04	2.53	2.11	—	—
	100	2	SPI™	2.7 ~ 5.5	8-TSSOP	MCP3202-CI/ST-ND◆	3.04	2.53	2.11	—	—
	100	2	SPI™	2.7 ~ 5.5	8-DIP	MCP3202-CI/P-ND◆	3.04	2.53	2.11	—	—
	100	2	SPI™	2.7 ~ 5.5	8-SOIC	MCP3202-CI/SN-ND◆	3.04	2.53	2.11	—	—
	100	4	SPI™	2.7 ~ 5.5	14-DIP	MCP3204-BI/P-ND◆	4.73	3.94	3.29	—	—
	100	4	SPI™	2.7 ~ 5.5	14-SOIC	MCP3204-BI/SL-ND◆	4.73	3.94	3.29	—	—
	100	4	SPI™	2.7 ~ 5.5	14-DIP	MCP3204-CI/P-ND◆	3.80	3.17	2.64	—	—
	100	4	SPI™	2.7 ~ 5.5	14-SOIC	MCP3204-CI/SL-ND◆	3.80	3.17	2.64	—	—
	100	4	SPI™	2.7 ~ 5.5	14-SOIC	MCP3204T-CI/SLCT-ND†	3.76	3.17	2.64	2,600	2400.01/M
	100	4	SPI™	2.7 ~ 5.5	14-TSSOP	MCP3204-CI/ST-ND◆	3.80	3.17	2.64	—	—
	100	8	SPI™	2.7 ~ 5.5	16-DIP	MCP3208-BI/P-ND◆	5.22	4.35	3.62	—	—
	100	8	SPI™	2.7 ~ 5.5	16-SOIC	MCP3208-BI/SL-ND◆	5.22	4.35	3.62	—	—
	100	8	SPI™	2.7 ~ 5.5	16-DIP	MCP3208-CI/P-ND◆	4.18	3.48	2.90	—	—
	100	8	SPI™	2.7 ~ 5.5	16-SOIC	MCP3208-CI/SL-ND◆	4.18	3.48	2.90	—	—
	22.3	1	I²C™ Compatible/SPI™	2.7 ~ 5.5	SOT-23-5	MCP3221A5T-E/OTCT-ND◆†	2.25	1.91	1.59	3,000	1450.00/M
	22	1	I²C™ Compatible/SPI™	2.7 ~ 5.5	SOT-23-5	MCP3221A5T-I/OTCT-ND◆†	2.09	1.75	1.46	3,000	1330.01/M
13	100	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3301-BI/P-ND◆	3.13	2.61	2.17	—	—
	100	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3301-BI/SN-ND◆	3.13	2.61	2.17	—	—
	100	1	SPI™	2.7 ~ 5.5	8-MSOP	MCP3301-CI/MS-ND◆	2.48	2.27	1.89	—	—
	100	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3301-CI/P-ND◆	2.72	2.27	1.89	—	—
	100	1	SPI™	2.7 ~ 5.5	8-SOIC	MCP3301-CI/SN-ND◆	2.72	2.27	1.89	—	—
	100	2	SPI™	2.7 ~ 5.5	14-DIP	MCP3302-BI/P-ND◆	4.69	3.91	3.26	—	—
	100	2	SPI™	2.7 ~ 5.5	14-SOIC	MCP3302-BI/SL-ND◆	4.69	3.91	3.26	—	—
	100	2	SPI™	2.7 ~ 5.5	14-TSSOP	MCP3302-BI/ST-ND◆	4.28	3.91	3.26	—	—
	100	2	SPI™	2.7 ~ 5.5	14-DIP	MCP3302-CI/P-ND◆	3.77	3.14	2.61	—	—
	100	2	SPI™	2.7 ~ 5.5	14-SOIC	MCP3302-CI/SL-ND◆	3.77	3.14	2.61	—	—
	100	2	SPI™	2.7 ~ 5.5	14-TSSOP	MCP3302-CI/ST-ND◆	3.42	3.14	2.61	—	—
	100	4	SPI™	2.7 ~ 5.5	16-DIP	MCP3304-BI/P-ND◆	5.18	4.32	3.60	—	—
	100	4	SPI™	2.7 ~ 5.5	16-SOIC	MCP3304-BI/SL-ND◆	5.18	4.32	3.60	—	—
	100	4	SPI™	2.7 ~ 5.5	16-DIP	MCP3304-CI/P-ND◆	4.15	3.46	2.89	—	—
	100	4	SPI™	2.7 ~ 5.5	16-SOIC	MCP3304-CI/SL-ND◆	4.15	3.46	2.89	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Delta - Sigma A/D Converters

Resolution (bits)	Max Sample Rate (samples/sec)	Input Type	Interface	Supply Voltage Range (V)	Typical Supply Current (µA)	Typical INL (PPM)	Package	Digi-Key Part No.	Price Each			Tape and Reel Pricing* 3,000
									1	10	25	
18	4	1 Differential	I²C™	2.7 ~ 5.5	155	10	SOT-23-6	MCP3421A0T-E/CHCT-ND◆ ***NEW!***	2.95	2.39	1.99	1810.00/M
	4	1 Differential	I²C™	2.7 ~ 5.5	155	10	SOT-23-6	MCP3421A1T-E/CHCT-ND◆ ***NEW!***	2.95	2.39	1.99	1810.00/M
	4	1 Differential	I²C™	2.7 ~ 5.5	155	10	SOT-23-6	MCP3421A2T-E/CHCT-ND◆ ***NEW!***	2.95	2.39	1.99	1810.00/M
	4	1 Differential	I²C™	2.7 ~ 5.5	155	10	SOT-23-6	MCP3421A3T-E/CHCT-ND◆ ***NEW!***	2.95	2.39	1.99	1810.00/M
	4	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-DFN	MCP3422A0-E/MC-ND◆	3.18	2.92	2.43	—
	4	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-MSOP	MCP3422A0-E/MS-ND◆	3.16	2.90	2.42	—
	4	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-SOIC	MCP3422A0-E/SN-ND◆	3.14	2.87	2.39	—
	4	2 Differential	I²C™	2.7 ~ 5.5	145	10	10-DFN	MCP3423-E/MF-ND◆	3.38	3.11	2.59	—
	4	2 Differential	I²C™	2.7 ~ 5.5	145	10	10-MSOP	MCP3423-E/UN-ND◆	3.38	3.11	2.59	—
	4	4 Differential	I²C™	2.7 ~ 5.5	145	10	14-SOIC	MCP3424-E/SL-ND◆	4.26	3.91	3.26	—
	4	4 Differential	I²C™	2.7 ~ 5.5	145	10	14-TSSOP	MCP3424-E/ST-ND◆	4.36	3.99	3.33	—
16	15	1 Differential	I²C™	2.7 ~ 5.5	145	10	SOT-23-6	MCP3425A0T-E/CHCT-ND◆†	2.68	2.17	1.81	1650.00/M
	15	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-DFN	MCP3426A0-E/MC-ND◆ ***NEW!***	2.88	2.66	2.21	—
	15	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-MSOP	MCP3426A0-E/MS-ND◆ ***NEW!***	2.86	2.64	2.20	—
	15	2 Differential	I²C™	2.7 ~ 5.5	145	10	8-SOIC	MCP3426A0-E/SN-ND◆ ***NEW!***	2.84	2.61	2.17	—
	15	2 Differential	I²C™	2.7 ~ 5.5	145	10	10-DFN	MCP3427-E/MF-ND◆ ***NEW!***	3.08	2.83	2.36	—
	15	2 Differential	I²C™	2.7 ~ 5.5	145	10	10-MSOP	MCP3427-E/UN-ND◆ ***NEW!***	3.08	2.83	2.36	—
	15	4 Differential	I²C™	2.7 ~ 5.5	145	10	14-SOIC	MCP3428-E/SL-ND◆ ***NEW!***	3.86	3.56	2.96	—
	15	4 Differential	I²C™	2.7 ~ 5.5	145	10	14-TSSOP	MCP3428-E/ST-ND◆ ***NEW!***	3.96	3.63	3.03	—
	64,000	2 Differential	SPI™	4.5 ~ 5.5	2,050	15	20-SSOP	MCP3901A0-I/SS-ND◆ ***NEW!***	2.16	1.99	1.66	—
22	13	1 Differential	SPI™	2.7 ~ 5.5	120	2	8-MSOP	MCP3550-50E/MS-ND◆	4.40	4.02	3.35	—
	13	1 Differential	SPI™	2.7 ~ 5.5	120	2	8-SOIC	MCP3550-50E/SN-ND◆	4.36	3.98	3.31	—
	15	1 Differential	SPI™	2.7 ~ 5.5	140	0.0002	8-MSOP	MCP3550-60E/MS-ND◆	4.40	4.02	3.35	—
	15	1 Differential	SPI™	2.7 ~ 5.5	140	0.0002	8-SOIC	MCP3550-60E/SN-ND◆	4.36	3.98	3.31	—
	14	1 Differential	SPI™	2.7 ~ 5.5	120	0.0002	8-MSOP	MCP3551-E/MS-ND◆	4.40	4.02	3.35	—
	14	1 Differential	SPI™	2.7 ~ 5.5	120	0.0002	8-SOIC	MCP3551-E/SN-ND◆	4.36	3.98	3.31	—
20	60	1 Differential	SPI™	2.7 ~ 5.5	140	0.0002	8-MSOP	MCP3553-E/MS-ND◆	4.40	4.02	3.35	—
	60	1 Differential	SPI™	2.7 ~ 5.5	140	0.0002	8-SOIC	MCP3553-E/SN-ND◆	4.36	3.98	3.31	—
Evaluation Board for 2-Channel ADC MCP3901								MCP3901EV-MCU16-ND◆ ***NEW!***	80.00	—	—	—
Evaluation Board for MCP3421								MCP3421EV-ND	15.00	—	—	—
Evaluation Board for MCP3422								MCP3422EV-ND◆	15.00	—	—	—
Evaluation Board for 18-Bit 2-Channel ADC MCP3423								MCP3423EV-ND◆ ***NEW!***	15.00	—	—	—
Evaluation Board for MCP3424								MCP3424EV-ND◆	15.00	—	—	—
Evaluation Board for MCP3425								MCP3425EV-ND◆	15.00	—	—	—
Demo Board for MCP355X								MCP355XDM-TAS-ND	45.00	—	—	—
Demo Board for MCP355X								MCP355XDV-MS1-ND	145.00	—	—	—
Evaluation Board for PT100 RTD Sensor								TMPSNS-RTD1-ND	45.00	—	—	—
RTD Reference Design Board								TMPSNSRD-RTD2-ND◆ ***NEW!***	35.00	—	—	—
Thermocouple Reference Design Board								TMPSNSRD-TCPL1-ND◆ ***NEW!***	35.00	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Dual Slope A/D Converters

Supply Voltage Range (V)	Input Voltage Range (V)	Resolution	Sampling Rate (Conv/sec)	Input Channels	Interface	Differential Input Range	Programmable Resolution/ Conversion Time	Charge Pump (-V) Output Pin	Package	Digi-Key Part No.	Price Each 1	10	25
±4.5 ~ ±7.5	Vss +1.5 ~ Vdd -1.5	Up to 17 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500ACOE-ND	3.84	3.51	2.92
	Vss +1.5 ~ Vdd -1.5	Up to 17 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-DIP	TC500ACPE-ND	3.38	3.11	2.59
	Vss +1.5 ~ Vdd -1.5	Up to 16 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500COE-ND	3.38	3.11	2.59
	Vss +1.5 ~ Vdd -1.5	Up to 16 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-DIP	TC500CPE-ND	2.48	2.27	1.89
±4.5 ~ ±5.5	Vss +1.5 ~ Vdd -1.5	Up to 17 bits	4 ~ 10	1	3-Wire	Yes	Yes	Yes	24-SOIC	TC510COG-ND	5.06	4.22	3.52
	—	—	—	—	Serial Port	No	No	No	(wide)16-SOIC	TC520ACOE-ND	7.92	6.60	5.50
	—	—	—	—	Serial Port	No	No	No	14-DIP	TC520ACPD-ND	7.61	6.34	5.28
	Vss +1.5 ~ Vdd -1.5	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-DIP	TC7109ACPL-ND	10.30	8.58	7.15
	Vss +1.5 ~ Vdd -1.5	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	44-PQFP	TC7109ACKW-ND	14.57	12.14	10.12
	Vss +1.5 ~ Vdd -1.5	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	44-MQFP	TC7109CKW-ND	14.57	12.14	10.12
	Vss +1.5 ~ Vdd -1.5	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-DIP	TC7109CPL-ND	8.71	7.26	6.05

Display A/D Converters

Display Type	Supply Voltage (V)	Resolution (Digits)	Resolution (Counts)	Power (mW)	For DMM, DPM, Data Loggers	Hold Function	Package	Digi-Key Part No.	Price Each 1	10	25
LCD	9	3.75	4,000	10	No	No	40-DIP	TC820CPL-ND	5.22	5.04	4.94
LCD	9	3.5	2,000	10	No	Yes	40-DIP	TC7106ACPL-ND◆	6.20	5.17	4.31
LCD	9	3.5	2,000	10	Yes	No	40-DIP	TC7106CPL-ND◆	5.39	4.49	3.74
LED	5	3.5	2,000	10	No	Yes	40-DIP	TC7107ACPL-ND◆	5.86	4.88	4.07
LED	5	3.5	2,000	10	No	Yes	44-MQFP	TC7107CKW-ND◆	5.06	4.22	3.52
LED	5	3.5	2,000	10	No	Yes	40-DIP	TC7107CPL-ND◆	5.06	4.22	3.52
LCD	9	3.5	2,000	10	No	Yes	40-DIP	TC7116ACPL-ND◆	7.88	6.57	5.48
LCD	9	3.5	2,000	10	No	Yes	40-DIP	TC7116CPL-ND◆	6.34	5.28	4.40
LED	5	3	2,000	10	No	Yes	40-DIP	TC7117ACPL-ND◆	8.23	6.86	5.72
LED	5	3	2,000	10	No	Yes	44-MQFP	TC7117CKW-ND◆	5.70	4.75	3.96
LED	5	3	2,000	10	No	Yes	40-DIP	TC7117CPL-ND◆	5.70	4.75	3.96
LCD	9	3.5	2,000	0.5	No	No	40-DIP	TC7126ACPL-ND◆	10.24	8.53	7.11
LCD	9	3.5	2,000	0.5	No	No	40-DIP	TC7126CPL-ND◆	7.92	6.60	5.50
LCD	9	4.5	20,000	4.5	No	No	40-DIP	TC7129CPL-ND◆	16.85	14.04	11.70

◆ *RoHS Compliant*

Binary and BCD A/D Converters

Description	Supply Voltage (V)	Input Voltage Range (V)	Resolution (Digits)	Resolution (Counts)	Maximum Power (mW)	Interface	For DMM,DPM Data Loggers	Package	Digi-Key Part No.	Price Each 1	10	25
BCD A/D	4.5 ~ ±8	199.9mV ~ 1.999	3.5	2,000	20	MUXed BCD	Yes	24-DIP	TC14433AEPG-ND	7.92	6.60	5.50
	4.5 ~ ±8	199.9mV ~ 1.999	3.5	2,000	20	MUXed BCD	Yes	24-DIP	TC14433EPG-ND	7.92	6.60	5.50

D/A Converters

Resolution (Bits)	DACs per Package	Interface	Vref	Output Setting Time (s)	DNL (LSB)	Typical Standby Current (µA)	Typical Operating Current (µA)	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel* Qty.	Pricing
8	1	SPI™	Internal	4.5	0.5	0.3	330	8-DFN	MCP4801-E/MC-ND ***NEW!***	1.36	1.13	.94	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-MSOP	MCP4801-E/MS-ND ***NEW!***	1.36	1.13	.94	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-PDIP	MCP4801-E/P-ND ***NEW!***	1.36	1.13	.94	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-SOIC	MCP4801-E/SN-ND ***NEW!***	1.36	1.13	.94	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-MSOP	MCP4802-E/MS-ND ***NEW!***	1.62	1.48	1.23	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-PDIP	MCP4802-E/P-ND ***NEW!***	1.62	1.48	1.23	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-SOIC	MCP4802-E/SN-ND ***NEW!***	1.62	1.48	1.23	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-DFN	MCP4901-E/MC-ND ***NEW!***	1.15	.96	.80	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-MSOP	MCP4901-E/MS-ND ***NEW!***	1.15	.96	.80	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-PDIP	MCP4901-E/P-ND ***NEW!***	1.15	.96	.80	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-SOIC	MCP4901-E/SN-ND ***NEW!***	1.15	.96	.80	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-PDIP	MCP4902-E/P-ND ***NEW!***	1.40	1.29	1.07	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-SOIC	MCP4902-E/SL-ND ***NEW!***	1.40	1.29	1.07	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-TSSOP	MCP4902-E/ST-ND ***NEW!***	1.40	1.29	1.07	—	—
10	1	SPI™	Internal	4.5	0.5	0.3	330	8-DFN	MCP4811-E/MC-ND ***NEW!***	1.94	1.62	1.35	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-MSOP	MCP4811-E/MS-ND ***NEW!***	1.94	1.62	1.35	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-PDIP	MCP4811-E/P-ND ***NEW!***	1.94	1.62	1.35	—	—
	1	SPI™	Internal	4.5	0.5	0.3	330	8-SOIC	MCP4811-E/SN-ND ***NEW!***	1.94	1.62	1.35	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-MSOP	MCP4812-E/MS-ND ***NEW!***	2.30	2.11	1.76	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-PDIP	MCP4812-E/P-ND ***NEW!***	2.30	2.11	1.76	—	—
	2	SPI™	Internal	4.5	0.5	3.3	415	8-SOIC	MCP4812-E/SN-ND ***NEW!***	2.30	2.11	1.76	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-DFN	MCP4911-E/MC-ND ***NEW!***	1.66	1.38	1.15	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-MSOP	MCP4911-E/MS-ND ***NEW!***	1.66	1.38	1.15	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-PDIP	MCP4911-E/P-ND ***NEW!***	1.66	1.38	1.15	—	—
	1	SPI™	External	4.5	0.5	3.3	175	8-SOIC	MCP4911-E/SN-ND ***NEW!***	1.66	1.38	1.15	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-PDIP	MCP4912-E/P-ND ***NEW!***	2.00	1.83	1.53	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-SOIC	MCP4912-E/SL-ND ***NEW!***	2.00	1.83	1.53	—	—
	2	SPI™	External	4.5	0.5	0.3	350	14-TSSOP	MCP4912-E/ST-ND ***NEW!***	2.00	1.83	1.53	—	—
12	1	I2C™	External	6	0.75	0.06	210	SOT-23-6	MCP4725A0T-E/CHCT-ND†	1.19	.96	.80	3,000	730.00/M
	1	I2C™	External	6	0.75	0.06	210	SOT-23-6	MCP4725A1T-E/CHCT-ND†	1.19	.96	.80	3,000	730.00/M
	1	I2C™	External	6	0.75	0.06	210	SOT-23-6	MCP4725A2T-E/CHCT-ND†	1.19	.96	.80	3,000	730.00/M
	1	I2C™	External	6	0.75	0.06	210	SOT-23-6	MCP4725A3T-E/CHCT-ND†	1.19	.96	.80	3,000	730.00/M
	4	I2C™	Internal	6	0.75	0.04	800	10-MSOP	MCP4728-E/UN-ND ***NEW!***	2.06	1.89	1.58	—	—
	1	2 SPI™	Internal	4	0.2	0.3	330	8-MSOP	MCP4821-E/MS-ND	2.76	2.30	1.92	—	—
	1	2 SPI™	Internal	4	0.2	0.3	330	8-DIP	MCP4821-E/P-ND	2.76	2.30	1.92	—	—
	1	2 SPI™	Internal	4	0.2	0.3	330	8-SOIC	MCP4821-E/SN-ND	2.89	2.41	2.01	—	—
	1	SPI™	Internal	4.5	0.75	0.3	330	8-DFN	MCP4821-E/MC-ND ***NEW!***	2.76	2.30	1.92	—	—
	2	2 SPI™	Internal	4	0.2	0.3	415	8-MSOP	MCP4822-E/MS-ND	3.60	3.00	2.50	—	—
	2	2 SPI™	Internal	4	0.2	0.3	415	8-DIP	MCP4822-E/P-ND	3.60	3.00	2.50	—	—
	2	2 SPI™	Internal	4	0.2	0.3	415	8-SOIC	MCP4822-E/SN-ND	3.60	3.00	2.50	—	—
	1	SPI™	External	4.5	0.25	0.5	125	8-MSOP	MCP4921-E/MS-ND	2.36	1.97	1.64	—	—
	1	SPI™	External	4.5	0.25	0.5	125	8-MSOP	MCP4921T-E/MSCT-ND†	2.34	1.97	1.64	2,500	1490.00/M
	1	SPI™	External	4.5	0.25	0.5	125	8-DIP	MCP4921-E/P-ND	2.36	1.97	1.64	—	—
	1	SPI™	External	4.5	0.25	0.5	125	8-SOIC	MCP4921-E/SN-ND	2.36	1.97	1.64	—	—
	1	SPI™	External	4.5	0.75	3.3	175	8-DFN	MCP4921-E/MC-ND ***NEW!***	2.36	1.97	1.64	—	—
	2	SPI™	External	4.5	0.25	0.5	250	14-DIP	MCP4922-E/P-ND	3.14	2.62	2.19	—	—
	2	SPI™	External	4.5	0.25	0.5	250	14-SOIC	MCP4922-E/SL-ND	3.14	2.62	2.19	—	—
	2	SPI™	External	4.5	0.25	0.5	250	14-SOIC	MCP4922T-E/SLCT-ND†	3.11	2.62	2.19	2,600	1990.00/M
	2	SPI™	External	4.5	0.25	0.5	250	14-TSSOP	MCP4922-E/ST-ND	3.14	2.62	2.19	—	—
	2	SPI™	External	4.5	0.25	0.5	250	14-TSSOP	MCP4922T-E/STCT-ND†	3.11	2.62	2.19	2,500	1990.00/M
PICtail Plus Daughter Board for MCP4725									MCP4725DM-PTPLS-ND	15.00	—	—	—	—
Evaluation Board for MCP4725									MCP4725EV-ND ***NEW!***	15.00	—	—	—	—
Evaluation Board for 12-Bit 4-Channel DAC MCP4728									MCP4728EV-ND ***NEW!***	15.00	—	—	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Mixed Signal *(Cont.)*
Digital Potentiometers

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
64	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-DFN	MCP4011T-103E/MCCT-ND◆†	.61	.51	.43	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4011-103E/MS-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4011-103E/SN-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	8-MSOP	MCP4011-202E/MS-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	8-SOIC	MCP4011-202E/SN-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4011-502E/MS-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4011-502E/SN-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-DFN	MCP4011T-503E/MCCT-ND◆†	.61	.51	.43	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4011-503E/MS-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4011-503E/SN-ND◆	.61	.51	.43	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4012T-103E/CHCT-ND◆†	.61	.51	.43	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4012T-202E/CHCT-ND◆†	.61	.51	.43	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4012T-502E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4012T-503E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4013T-103E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4013T-202E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4013T-502E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4013T-503E/CHCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4014T-502E/OTCT-ND◆†	.61	.51	.43	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4014T-503E/OTCT-ND◆†	.61	.51	.43	3,000	390.00/M
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-DFN	MCP4021T-103E/MCCT-ND◆†	.99	.82	.69	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4021-103E/MS-ND◆	.97	.81	.67	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4021-103E/SN-ND◆	.94	.78	.65	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	8-DFN	MCP4021T-202E/MCCT-ND◆†	.99	.82	.69	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	8-MSOP	MCP4021-202E/MS-ND◆	.97	.81	.67	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	8-SOIC	MCP4021-202E/SN-ND◆	.94	.78	.65	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4021-502E/MS-ND◆	.97	.81	.67	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4021-502E/SN-ND◆	.94	.78	.65	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-DFN	MCP4021T-503E/MCCT-ND◆†	.99	.82	.69	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-MSOP	MCP4021-503E/MS-ND◆	.97	.81	.67	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	8-SOIC	MCP4021-503E/SN-ND◆	.94	.78	.65	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4022T-202E/CHCT-ND◆†	.95	.79	.66	3,000	600.00/M
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4022T-502E/CHCT-ND◆†	.95	.79	.66	3,000	600.00/M
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4022T-503E/CHCT-ND◆†	.95	.79	.66	3,000	600.00/M
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4023T-103E/CHCT-ND◆†	.95	.79	.66	3,000	600.00/M
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-6	MCP4023T-502E/CHCT-ND◆†	.95	.79	.66	—	—
	1	Up/Down Protocol	10,000	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4024T-103E/OTCT-ND◆†	.95	.79	.66	—	—
	1	Up/Down Protocol	2,100	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4024T-202E/OTCT-ND◆†	.95	.79	.66	—	—
	1	Up/Down Protocol	50,000	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4024T-503E/OTCT-ND◆†	.95	.79	.66	—	—
	1	Up/Down Protocol	5,000	0.5	0.5	-40 ~ 125	SOT-23-5	MCP4024T-502E/OTCT-ND◆†	.95	.79	.66	—	—
128	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D17T-103E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4017T-103E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D17T-104E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4017T-104E/LTCT-ND◆†	.56	.51	.42	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D17T-502E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4017T-502E/LTCT-ND◆†	.56	.51	.42	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D17T-503E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4017T-503E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D18T-103E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4018T-103E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D18T-104E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4018T-104E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D18T-502E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC-70-6	MCP4018T-502E/LTCT-ND◆†	.56	.51	.43	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-6	MCP40D18T-503E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-6	MCP4018T-503E/LTCT-ND◆†	.56	.51	.42	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-5	MCP40D19T-103E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	SC70-5	MCP4019T-103E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-5	MCP40D19T-104E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	SC70-5	MCP4019T-104E/LTCT-ND◆†	.56	.51	.42	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC70-5	MCP40D19T-502E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	SC70-5	MCP4019T-502E/LTCT-ND◆†	.56	.51	.42	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-5	MCP40D19T-503E/LTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	SC70-5	MCP4019T-503E/LTCT-ND◆†	.63	.51	.42	3,000	390.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4531-103E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4531-104E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4531-502E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4531-503E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4531T-103E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4531T-104E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4531T-502E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4531T-503E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	10,000	0.8	0.375	-40 ~ 125	8-MSOP	MCP4532-103E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	100,000	0.8	0.375	-40 ~ 125	8-MSOP	MCP4532-104E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	5,000	0.8	0.375	-40 ~ 125	8-MSOP	MCP4532-502E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	50,000	0.8	0.375	-40 ~ 125	8-MSOP	MCP4532-503E/MS-ND◆	.80	.67	.56	—	—
	1	I2C™	10,000	0.8	0.375	-40 ~ 125	8-DFN	MCP4532T-103E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	100,000	0.8	0.375	-40 ~ 125	8-DFN	MCP4532T-104E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	5,000	0.8	0.375	-40 ~ 125	8-DFN	MCP4532T-502E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	50,000	0.8	0.375	-40 ~ 125	8-DFN	MCP4532T-503E/MFCT-ND◆†	.81	.67	.56	3,300	510.00/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4541-103E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4541-104E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4541-502E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4541-503E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4541T-103E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4541T-104E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4541T-502E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4541T-503E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	2	I2C™	10,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4631-103E/ST-ND◆	.98	.90	.75	—	—
	2	I2C™	100,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4631-104E/ST-ND◆	.98	.90	.75	—	—
	2	I2C™	5,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4631-502E/ST-ND◆	.98	.90	.75	—	—
	2	I2C™	50,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4631-503E/ST-ND◆	.98	.90	.75	—	—
	2	I2C™	10,000	0.5	0.25	-40 ~ 125	16-QFN	MCP4631T-103E/MLCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	100,000	0.5	0.25	-40 ~ 125	16-QFN	MCP4631T-104E/MLCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	5,000	0.5	0.25	-40 ~ 125	16-QFN	MCP4631T-502E/MLCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	50,000	0.5	0.25	-40 ~ 125	16-QFN	MCP4631T-503E/MLCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	10,000	0.8	0.375	-40 ~ 125	10-MSOP	MCP4632-103E/UN-ND◆	.98	.90	.75	—	—
	2	I2C™	100,000	0.8	0.375	-40 ~ 125	10-MSOP	MCP4632-104E/UN-ND◆	.98	.90	.75	—	—
	2	I2C™	5,000	0.8	0.375	-40 ~ 125	10-MSOP	MCP4632-502E/UN-ND◆	.98	.90	.75	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Mixed Signal

Digital Potentiometers *(Cont.)*

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
128	2	I2C™	50,000	0.8	0.375	-40 ~ 125	10-MSOP	MCP4632-503E/UN-ND◆	.98	.90	.75	—	—
	2	I2C™	10,000	0.8	0.375	-40 ~ 125	10-DFN	MCP4632T-103E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	100,000	0.8	0.375	-40 ~ 125	10-DFN	MCP4632T-104E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	5,000	0.8	0.375	-40 ~ 125	10-DFN	MCP4632T-502E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	2	I2C™	50,000	0.8	0.375	-40 ~ 125	10-DFN	MCP4632T-503E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
129	1	SPI™	10,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4131-103E/MS-ND◆	.80	.67	.56	—	—
	1	SPI™	10,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4131-103E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	10,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4131-103E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	100,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4131-104E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	100,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4131-104E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	5,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4131-502E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	5,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4131-502E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	50,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4131-503E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	50,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4131-503E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	10,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4132-103E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	10,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4132-103E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	100,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4132-104E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	100,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4132-104E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	5,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4132-502E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	5,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4132-502E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	50,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4132-503E/P-ND◆	.80	.67	.56	—	—
	1	SPI™	50,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4132-503E/SN-ND◆	.80	.67	.56	—	—
	1	SPI™	10,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4141-103E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	10,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4141-103E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	100,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4141-104E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	100,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4141-104E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	5,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4141-502E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	5,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4141-502E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	50,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4141-503E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	50,000	0.5	0.25	-40 ~ 125	8-SOIC	MCP4141-503E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	10,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4142-103E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	10,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4142-103E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	100,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4142-104E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	100,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4142-104E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	5,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4142-502E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	5,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4142-502E/SN-ND◆	.88	.81	.67	—	—
	1	SPI™	50,000	1.125	0.375	-40 ~ 125	8-DIP	MCP4142-503E/P-ND◆	.88	.81	.67	—	—
	1	SPI™	50,000	1.125	0.375	-40 ~ 125	8-SOIC	MCP4142-503E/SN-ND◆	.88	.81	.67	—	—
257	1	SPI™	10,000	1	0.5	-40 ~ 125	8-DIP	MCP4151-103E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	10,000	1	0.5	-40 ~ 125	8-SOIC	MCP4151-103E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	100,000	1	0.5	-40 ~ 125	8-Dip	MCP4151-104E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	100,000	1	0.5	-40 ~ 125	8-SOIC	MCP4151-104E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	5,000	1	0.5	-40 ~ 125	8-DIP	MCP4151-502E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	5,000	1	0.5	-40 ~ 125	8-SOIC	MCP4151-502E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	50,000	1	0.5	-40 ~ 125	8-DIP	MCP4151-503E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	50,000	1	0.5	-40 ~ 125	8-SOIC	MCP4151-503E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	10,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4152-103E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	10,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4152-103E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	100,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4152-104E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	100,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4152-104E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	5,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4152-502E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	5,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4152-502E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	50,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4152-503E/P-ND◆	.98	.90	.75	—	—
	1	SPI™	50,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4152-503E/SN-ND◆	.98	.90	.75	—	—
	1	SPI™	10,000	1	0.5	-40 ~ 125	8-DIP	MCP4161-103E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	10,000	1	0.5	-40 ~ 125	8-SOIC	MCP4161-103E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	100,000	1	0.5	-40 ~ 125	8-DIP	MCP4161-104E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	100,000	1	0.5	-40 ~ 125	8-SOIC	MCP4161-104E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	5,000	1	0.5	-40 ~ 125	8-DIP	MCP4161-502E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	5,000	1	0.5	-40 ~ 125	8-SOIC	MCP4161-502E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	50,000	1	0.5	-40 ~ 125	8-DIP	MCP4161-503E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	50,000	1	0.5	-40 ~ 125	8-SOIC	MCP4161-503E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	10,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4162-103E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	10,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4162-103E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	100,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4162-104E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	100,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4162-104E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	5,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4162-502E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	5,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4162-502E/SN-ND◆	1.06	.96	.80	—	—
	1	SPI™	50,000	1.5	0.5	-40 ~ 125	8-DIP	MCP4162-503E/P-ND◆	1.06	.96	.80	—	—
	1	SPI™	50,000	1.5	0.5	-40 ~ 125	8-SOIC	MCP4162-503E/SN-ND◆	1.06	.96	.80	—	—
129	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-DIP	MCP4231-103E/P-ND◆	.98	.90	.75	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4231-103E/SL-ND◆	.98	.90	.75	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4231-103E/ST-ND◆	.98	.90	.75	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4231-104E/P-ND◆	.98	.90	.75	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4231-104E/SL-ND◆	.98	.90	.75	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4231-104E/ST-ND◆	.98	.90	.75	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4231-502E/P-ND◆	.98	.90	.75	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4231-502E/SL-ND◆	.98	.90	.75	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4231-502E/ST-ND◆	.98	.90	.75	—	—
	2	SPI™	50,000	0.5	0.25	-40 ~ 125	8-DIP	MCP4231-503E/P-ND◆	.98	.90	.75	—	—
	2	SPI™	50,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4231-503E/SL-ND◆	.98	.90	.75	—	—
	2	SPI™	50,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4231-503E/ST-ND◆	.98	.90	.75	—	—
	2	SPI™	10,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4232-103E/UN-ND◆	.98	.90	.75	—	—
	2	SPI™	100,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4232-104E/UN-ND◆	.98	.90	.75	—	—
	2	SPI™	5,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4232-502E/UN-ND◆	.98	.90	.75	—	—
	2	SPI™	50,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4232-503E/UN-ND◆	.98	.90	.75	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4241-103E/SL-ND◆	1.16	1.06	.88	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-DIP	MCP4241-103E/P-ND◆	1.16	1.06	.88	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4241-103E/ST-ND◆	1.16	1.06	.88	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	14-DIP	MCP4241-104E/P-ND◆	1.16	1.06	.88	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4241-104E/SL-ND◆	1.16	1.06	.88	—	—
	2	SPI™	100,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4241-104E/ST-ND◆	1.16	1.06	.88	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	14-DIP	MCP4241-502E/P-ND◆	1.16	1.06	.88	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4241-502E/SL-ND◆	1.16	1.06	.88	—	—
	2	SPI™	5,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4241-502E/ST-ND◆	1.16	1.06	.88	—	—
	2	SPI™	50,000	0.5	0.25	-40 ~ 125	14-DIP	MCP4241-503E/P-ND◆	1.16	1.06	.88	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
129	2	SPI™	50,000	0.5	0.25	-40 ~ 125	14-SOIC	MCP4241-503E/SL-ND◆	1.16	1.06	.88	—	—
	2	SPI™	50,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4241-503E/ST-ND◆	1.16	1.06	.88	—	—
	2	SPI™	10,000	0.5	0.25	-40 ~ 125	10-MSOP	MCP4242-103E/UN-ND◆	1.16	1.06	.88	—	—
	2	SPI™	100,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4242-104E/UN-ND◆	1.16	1.06	.88	—	—
	2	SPI™	5,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4242-502E/UN-ND◆	1.16	1.06	.88	—	—
	2	SPI™	50,000	1.125	0.375	-40 ~ 125	10-MSOP	MCP4242-503E/UN-ND◆	1.16	1.06	.88	—	—
	4	2 SPI™	5,000	0.5	0.25	-40 ~ 125	20-TSSOP	MCP4351-502E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	4	2 SPI™	50,000	0.5	0.25	-40 ~ 125	20-QFN	MCP4351-503E/ML-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	4	2 SPI™	50,000	0.5	0.25	-40 ~ 125	20-TSSOP	MCP4351-503E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
257	2	SPI™	10,000	1	0.5	-40 ~ 125	14-SOIC	MCP4251-103E/SL-ND◆	1.02	.93	.78	—	—
	2	SPI™	10,000	1	0.5	-40 ~ 125	14-DIP	MCP4251-103E/P-ND◆	1.02	.93	.78	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	8-DIP	MCP4251-104E/P-ND◆	1.02	.93	.78	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	14-SOIC	MCP4251-104E/SL-ND◆	1.02	.93	.78	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4251-104E/ST-ND◆	1.02	.93	.78	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	8-DIP	MCP4251-502E/P-ND◆	1.02	.93	.78	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	14-SOIC	MCP4251-502E/SL-ND◆	1.02	.93	.78	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4251-502E/ST-ND◆	1.02	.93	.78	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	8-DIP	MCP4251-503E/P-ND◆	1.02	.93	.78	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	14-SOIC	MCP4251-503E/SL-ND◆	1.02	.93	.78	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4251-503E/ST-ND◆	1.02	.93	.78	—	—
	2	SPI™	10,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4252-103E/UN-ND◆	1.02	.93	.78	—	—
	2	SPI™	100,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4252-104E/UN-ND◆	1.02	.93	.78	—	—
	2	SPI™	5,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4252-502E/UN-ND◆	1.02	.93	.78	—	—
	2	SPI™	50,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4252-503E/UN-ND◆	1.02	.93	.78	—	—
	2	SPI™	10,000	1	0.5	-40 ~ 125	14-DIP	MCP4261-103E/P-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	10,000	1	0.5	-40 ~ 125	14-SOIC	MCP4261-103E/SL-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	10,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4261-103E/ST-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	14-DIP	MCP4261-104E/P-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	14-SOIC	MCP4261-104E/SL-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	100,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4261-104E/ST-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	14-DIP	MCP4261-502E/P-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	14-SOIC	MCP4261-502E/SL-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	5,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4261-502E/ST-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	14-DIP	MCP4261-503E/P-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	14-SOIC	MCP4261-503E/SL-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4261-503E/ST-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	10,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4262-103E/UN-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	100,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4262-104E/UN-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	5,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4262-502E/UN-ND◆	1.32	1.21	1.01	—	—
	2	SPI™	50,000	1.5	0.5	-40 ~ 125	10-MSOP	MCP4262-503E/UN-ND◆	1.32	1.21	1.01	—	—
	4	SPI™	10,000	1	0.5	-40 ~ 125	20-QFN	MCP4361-103E/ML-ND◆ ***NEW!***	2.06	1.88	1.57	—	—
	4	SPI™	100,000	1	0.5	-40 ~ 125	20-QFN	MCP4361-104E/ML-ND◆ ***NEW!***	2.06	1.88	1.57	—	—
	4	SPI™	5,000	1	0.5	-40 ~ 125	20-QFN	MCP4361-502E/ML-ND◆ ***NEW!***	2.06	1.88	1.57	—	—
	4	SPI™	50,000	1	0.5	-40 ~ 125	20-QFN	MCP4361-503E/ML-ND◆ ***NEW!***	2.06	1.88	1.57	—	—
	4	SPI™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4362-503E/ST-ND◆ ***NEW!***	2.06	1.88	1.57	—	—
256	1	SPI™	10,000	1	1	-40 ~ 85	8-DIP	MCP41010-I/P-ND◆	1.61	1.34	1.11	—	—
	1	SPI™	10,000	1	1	-40 ~ 85	8-SOIC	MCP41010-I/SN-ND◆	1.61	1.34	1.11	—	—
	1	SPI™	50,000	1	1	-40 ~ 85	8-DIP	MCP41050-I/P-ND◆	1.61	1.34	1.11	—	—
	1	SPI™	50,000	1	1	-40 ~ 85	8-SOIC	MCP41050-I/SN-ND◆	1.61	1.34	1.11	—	—
	1	SPI™	100,000	1	1	-40 ~ 85	8-DIP	MCP41100-I/P-ND◆	1.61	1.34	1.11	—	—
	1	SPI™	100,000	1	1	-40 ~ 85	8-SOIC	MCP41100-I/SN-ND◆	1.61	1.34	1.11	—	—
	2	SPI™	10,000	1	1	-40 ~ 85	14-DIP	MCP42010-I/P-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	10,000	1	1	-40 ~ 85	14-SOIC	MCP42010-I/SL-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	10,000	1	1	-40 ~ 85	14-TSSOP	MCP42010-I/ST-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	50,000	1	1	-40 ~ 85	14-DIP	MCP42050-I/P-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	50,000	1	1	-40 ~ 85	14-SOIC	MCP42050-I/SL-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	50,000	1	1	-40 ~ 85	14-TSSOP	MCP42050-I/ST-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	100,000	1	1	-40 ~ 85	14-DIP	MCP42100-I/P-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	100,000	1	1	-40 ~ 85	14-SOIC	MCP42100-I/SL-ND◆	2.40	2.00	1.67	—	—
	2	SPI™	100,000	1	1	-40 ~ 85	14-TSSOP	MCP42100-I/ST-ND◆	2.40	2.00	1.67	—	—
	4	2 SPI™	10,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4352-103E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	4	2 SPI™	100,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4352-104E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	4	2 SPI™	5,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4352-502E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	4	2 SPI™	50,000	0.5	0.25	-40 ~ 125	14-TSSOP	MCP4352-503E/ST-ND◆ ***NEW!***	1.48	1.35	1.13	—	—
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-MSOP	MCP4542-103E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-MSOP	MCP4542-104E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-MSOP	MCP4542-502E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-MSOP	MCP4542-503E/MS-ND◆	.88	.81	.67	—	—
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-DFN	MCP4542T-103E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-DFN	MCP4542T-104E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-DFN	MCP4542T-502E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-DFN	MCP4542T-503E/MFCT-ND◆†	.99	.81	.67	3,300	610.00/M
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-MSOP	MCP4551-103E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-MSOP	MCP4551-104E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-MSOP	MCP4551-502E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-MSOP	MCP4551-503E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-DFN	MCP4551T-103E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-DFN	MCP4551T-104E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-DFN	MCP4551T-502E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-DFN	MCP4551T-503E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-MSOP	MCP4552-103E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-MSOP	MCP4552-104E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-MSOP	MCP4552-502E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-MSOP	MCP4552-503E/MS-ND◆	.98	.90	.75	—	—
	1	I2C™	10,000	1	0.5	-40 ~ 125	8-DFN	MCP4552T-103E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	100,000	1	0.5	-40 ~ 125	8-DFN	MCP4552T-104E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	5,000	1	0.5	-40 ~ 125	8-DFN	MCP4552T-502E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	50,000	1	0.5	-40 ~ 125	8-DFN	MCP4552T-503E/MFCT-ND◆†	1.10	.90	.75	3,300	680.01/M
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4561-103E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4561-104E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4561-502E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4561-503E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4561T-103E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4561T-104E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4561T-502E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4561T-503E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Mixed Signal

Digital Potentiometers *(Cont.)*

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
256	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4562-103E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4562-104E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4562-502E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-MSOP	MCP4562-503E/MS-ND◆	1.06	.96	.80	—	—
	1	I2C™	10,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4562T-103E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	100,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4562T-104E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	5,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4562T-502E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	1	I2C™	50,000	0.5	0.25	-40 ~ 125	8-DFN	MCP4562T-503E/MFCT-ND◆†	1.06	.96	.80	3,300	730.00/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4641-103E/ST-ND◆	1.16	1.06	.88	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4641-104E/ST-ND◆	1.16	1.06	.88	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4641-502E/ST-ND◆	1.16	1.06	.88	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4641-503E/ST-ND◆	1.16	1.06	.88	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	16-QFN	MCP4641T-103E/MLCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	16-QFN	MCP4641T-104E/MLCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	16-QFN	MCP4641T-502E/MLCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	16-QFN	MCP4641T-503E/MLCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-MSOP	MCP4642-103E/UN-ND◆	1.16	1.06	.88	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-MSOP	MCP4642-104E/UN-ND◆	1.16	1.06	.88	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-MSOP	MCP4642-502E/UN-ND◆	1.16	1.06	.88	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-MSOP	MCP4642-503E/UN-ND◆	1.16	1.06	.88	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-DFN	MCP4642T-103E/MFCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-DFN	MCP4642T-104E/MFCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-DFN	MCP4642T-502E/MFCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-DFN	MCP4642T-503E/MFCT-ND◆†	1.31	1.06	.88	3,300	800.00/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4651-103E/ST-ND◆	1.02	.93	.78	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4651-104E/ST-ND◆	1.02	.93	.78	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4651-502E/ST-ND◆	1.02	.93	.78	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4651-503E/ST-ND◆	1.02	.93	.78	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	16-QFN	MCP4651T-103E/MLCT-ND◆†	1.15	.93	.78	3,300	710.01/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	16-QFN	MCP4651T-104E/MLCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	16-QFN	MCP4651T-502E/MLCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	16-QFN	MCP4651T-503E/MLCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-MSOP	MCP4652-103E/UN-ND◆	1.02	.93	.78	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-MSOP	MCP4652-104E/UN-ND◆	1.02	.93	.78	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-MSOP	MCP4652-502E/UN-ND◆	1.02	.93	.78	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-MSOP	MCP4652-503E/UN-ND◆	1.02	.93	.78	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-DFN	MCP4652T-103E/MFCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-DFN	MCP4652T-104E/MFCT-ND◆†	1.15	.93	.78	3,300	710.01/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-DFN	MCP4652T-502E/MFCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-DFN	MCP4652T-503E/MFCT-ND◆†	1.02	.93	.78	3,300	710.01/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4661-103E/ST-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4661-104E/ST-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4661-502E/ST-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	14-TSSOP	MCP4661-503E/ST-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	16-QFN	MCP4661T-103E/MLCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	16-QFN	MCP4661T-104E/MLCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	16-QFN	MCP4661T-502E/MLCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	16-QFN	MCP4661T-503E/MLCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-MSOP	MCP4662-103E/UN-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-MSOP	MCP4662-104E/UN-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-MSOP	MCP4662-502E/UN-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-MSOP	MCP4662-503E/UN-ND◆	1.38	1.26	1.05	—	—
	2	I2C™	10,000	1	0.5	-40 ~ 125	10-DFN	MCP4662T-103E/MFCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	100,000	1	0.5	-40 ~ 125	10-DFN	MCP4662T-104E/MFCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	5,000	1	0.5	-40 ~ 125	10-DFN	MCP4662T-502E/MFCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
	2	I2C™	50,000	1	0.5	-40 ~ 125	10-DFN	MCP4662T-503E/MFCT-ND◆†	1.38	1.26	1.05	3,300	950.00/M
Evaluation Board for MCP4022, MCP4023 and MCP4024								VSUPEV2-ND◆	10.00	—	—	—	—
Evaluation Board for MCP402X								MCP402XEV-ND◆	15.00	—	—	—	—
Daughter Board for MCP4XXX								MCP4XXXDM-DB-ND	25.00	—	—	—	—
Daughter Board for MCP42XX								MCP42XXDM-PTPLS-ND◆	20.00	—	—	—	—
PICtail Plus Daughter Board for MCP46XX								MCP46XXDM-PTPLS-ND◆ ***NEW!***	20.00	—	—	—	—
Evaluation Board for Supervisor SOT23								VSUPEV-ND	5.00	—	—	—	—
14-Pin SOIC/TSSOP/DIP Evaluation Board								SOIC14EV-ND◆	20.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Frequency-to-Voltage / Voltage-to-Frequency

RoHS COMPLIANT

Frequency Range (kHz)	Full Scale (ppm FS/°C)	Non-linearity (%FS)	Package	Digi-Key Part No.	Price Each		
					1	10	25
100	40	±0.02	14-SOIC	TC9400COD-ND	9.82	8.18	6.82
	40	±0.02	14-DIP	TC9400CPD-ND	8.71	7.26	6.05
	100	±0.25	14-DIP	TC9402CPD-ND	4.12	3.43	2.86

Energy Measurement

Measurement Error	Dynamic Range	Gain Selection	Voltage Reference Drift ppm typ.	MechCounter Drive (mA)	PSSR % typ.	AIdd Max. (mA)	DIdd Max. (mA)	Supply Voltage Range (V)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each		
												1	10	25
—	24-Bit	32	15	—	—	—	—	4.5 ~ 5.5	-40 ~ 125	20-SSOP	MCP3901A0-I/SS-ND◆	2.16	1.99	1.66
0.1%	500:1	1:16	15	15	0.01%	3	2	4.5 ~ 5.5	-40 ~ 85	24-SSOP	MCP3905A-I/SS-ND◆	2.06	1.88	1.57
	500:1	1:16	15	15	0.01%	3	2	4.5 ~ 5.5	-40 ~ 85	24-SSOP	MCP3905L-I/SS-ND◆	2.12	1.96	1.63
0.1%	1000:1	1:32	15	15	0.01%	3	2	4.5 ~ 5.5	-45 ~ 85	24-SSOP	MCP3906A-I/SS-ND◆	2.22	2.03	1.70
0.1%	1000:1	1:16	15	15	0.01%	2.8	1.2	4.5 ~ 5.5	-40 ~ 85	24-SSOP	MCP3909-I/SS-ND◆	2.30	2.11	1.76
Evaluation Board for MCP3905											MCP3905EV-ND	75.00	—	—
Reference Design for MCP3905											MCP3905RD-PM1-ND	45.00	—	—
Reference Design for MCP3909											MCP3909RD-3PH1-ND	249.99	—	—
Single Phase Energy Meter Reference Design for MCP3909/PIC18F85J90											MCP3909RD-1PH1-ND ***NEW!***	99.99	—	—

◆ ***RoHS Compliant***

No. per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
1	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP601-E/P-ND◆	.52	.48	.40	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP601-I/P-ND◆	.48	.44	.36	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP601-E/SN-ND◆	.52	.48	.40	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP601-I/SN-ND◆	.48	.44	.36	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP601RT-E/OTCT-ND◆†	.54	.44	.36	3,000	330.00/M
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP601RT-I/OTCT-ND◆†	.47	.39	.33	3,000	300.00/M
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP601T-E/OTCT-ND◆†	.54	.44	.36	3,000	330.00/M
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP601T-I/OTCT-ND◆†	.47	.39	.33	3,000	300.00/M
2	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP602-E/P-ND◆	.76	.63	.53	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP602-E/SN-ND◆	.76	.63	.53	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-TSSOP	MCP602-E/ST-ND◆	.76	.63	.53	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP602-I/P-ND◆	.62	.57	.48	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP602-I/SN-ND◆	.62	.57	.48	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-TSSOP	MCP602-I/ST-ND	.62	.57	.48	—	—
1	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	SOT-23-6	MCP603T-E/CHCT-ND◆†	.54	.44	.36	3,000	330.00/M
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP603-E/P-ND◆	.60	.50	.41	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP603-E/SN-ND◆	.60	.50	.41	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP603-I/P-ND◆	.56	.47	.39	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP603-I/SN-ND◆	.56	.47	.39	—	—
4	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	14-DIP	MCP604-E/P-ND◆	1.26	1.16	.96	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP604-E/SL-ND◆	1.26	1.16	.96	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP604-E/ST-ND◆	1.26	1.16	.96	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	14-DIP	MCP604-I/P-ND◆	1.25	1.04	.86	—	—
	2.8MHz	230	.325	2	2.7 ~ 6.0	-40°C ~ 85°C	14-SOIC	MCP604-I/SL-ND◆	1.25	1.04	.86	—	—
1	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP606-I/P-ND◆	.78	.72	.60	—	—
	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP606-I/SN-ND◆	.78	.72	.60	—	—
	155MHz	18.70	.025	0.25	2.5 ~ 6.0	-40°C ~ 85°C	8-TSSOP	MCP606-I/ST-ND◆	.78	.72	.60	—	—
2	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP607-I/P-ND◆	1.06	.98	.81	—	—
	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP607-I/SN-ND◆	1.06	.98	.81	—	—
	155MHz	18.70	.025	0.25	2.5 ~ 6.0	-40°C ~ 85°C	8-TSSOP	MCP607-I/ST-ND◆	1.06	.98	.81	—	—
1	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP608-I/P-ND	.94	.78	.65	—	—
	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP608-I/SN-ND◆	.94	.78	.65	—	—
	155MHz	18.70	.025	0.25	2.5 ~ 6.0	-40°C ~ 85°C	8-TSSOP	MCP608-I/ST-ND◆	.94	.78	.65	—	—
4	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	14-DIP	MCP609-I/P-ND◆	1.58	1.46	1.21	—	—
	155MHz	18.70	.025	0.25	2.7 ~ 6.0	-40°C ~ 85°C	14-SOIC	MCP609-I/SL-ND◆	1.58	1.46	1.21	—	—
	155MHz	18.70	.025	0.25	2.5 ~ 6.0	-40°C ~ 85°C	14-TSSOP	MCP609-I/ST-ND◆	1.58	1.46	1.21	—	—
1	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP616-I/MS-ND◆	.94	.78	.65	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP616-I/P-ND◆	.94	.78	.65	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP616-I/SN-ND◆	.94	.78	.65	—	—
2	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP617-I/MS-ND◆	1.22	1.02	.85	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP617-I/P-ND◆	1.22	1.02	.85	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP617-I/SN-ND◆	1.22	1.02	.85	—	—
1	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP618-I/MS-ND◆	.90	.83	.69	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP618-I/P-ND◆	.90	.83	.69	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP618-I/SN-ND◆	.90	.83	.69	—	—
4	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP619-I/P-ND◆	1.66	1.53	1.28	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	14-SOIC	MCP619T-I/SLCT-ND◆†	1.87	1.53	1.28	2,600	1160.00/M
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	14-SOIC	MCP619-I/SL-ND◆	1.66	1.53	1.28	—	—
	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	14-TSSOP	MCP619-I/ST-ND◆	1.66	1.53	1.28	—	—
1	20,000kHz	2,500	3,600µA	200µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP621-E/SN-ND◆ ***NEW!***	1.50	1.37	1.14	—	—
2	20,000kHz	2,500	3,600µA	200µV	2.5 ~ 5.5	-40°C ~ 125°C	8-DFN	MCP622-E/MF-ND◆ ***NEW!***	1.90	1.74	1.45	—	—
	20,000kHz	2,500	3,600µA	200µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP622-E/SN-ND◆ ***NEW!***	1.84	1.69	1.41	—	—
	20,000kHz	2,500	3,600µA	200µV	2.5 ~ 5.5	-40°C ~ 125°C	10-DFN	MCP625-E/MF-ND◆ ***NEW!***	1.94	1.79	1.49	—	—
	20,000kHz	2,500	3,600µA	200µV	2.5 ~ 5.5	-40°C ~ 125°C	10-MSOP	MCP625-E/UN-ND◆ ***NEW!***	1.94	1.79	1.49	—	—
1	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP631-E/SN-ND◆ ***NEW!***	.84	.77	.64	—	—
2	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-DFN	MCP632-E/MF-ND◆ ***NEW!***	1.16	1.05	.88	—	—
	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP632-E/SN-ND◆ ***NEW!***	1.10	1.01	.84	—	—
1	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP633-E/SN-ND◆ ***NEW!***	.96	.80	.66	—	—
2	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40C° ~ 125°C	10-DFN	MCP635-E/MF-ND◆ ***NEW!***	1.18	1.08	.90	—	—
	24MHz	2,500	3,600µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	10-MSOP	MCP635-E/UN-ND◆ ***NEW!***	1.18	1.08	.90	—	—
1	50,000kHz	6,000	9	0.20	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP651-E/SN-ND◆	1.84	1.69	1.41	—	—
2	50,000kHz	6,000	9	0.20	2.5 ~ 5.5	-40°C ~ 125°C	8-DFN	MCP652-E/MF-ND◆	2.36	2.16	1.80	—	—
	50,000kHz	6,000	9	0.20	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP652-E/SN-ND◆	2.28	2.08	1.73	—	—
	50,000kHz	6,000	9	0.20	2.5 ~ 5.5	-40°C ~ 125°C	10-DFN	MCP655-E/MF-ND◆	2.42	2.21	1.84	—	—
	50,000kHz	6,000	9	0.20	2.5 ~ 5.5	-40°C ~ 125°C	10-MSOP	MCP655-E/UN-ND◆	2.42	2.21	1.84	—	—
1	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP661-E/SN-ND◆ ***NEW!***	1.04	.96	.80	—	—
2	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-DFN	MCP662-E/MF-ND◆ ***NEW!***	1.58	1.32	1.10	—	—
	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP662-E/SN-ND◆ ***NEW!***	1.50	1.25	1.04	—	—
1	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP663-E/SN-ND◆ ***NEW!***	1.19	.99	.83	—	—
2	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	10-DFN	MCP665-E/MF-ND◆ ***NEW!***	1.46	1.35	1.13	—	—
	60MHz	6,000	9,000µA	8,000µV	2.5 ~ 5.5	-40°C ~ 125°C	10-MSOP	MCP665-E/UN-ND◆ ***NEW!***	1.46	1.35	1.13	—	—
1	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP6001RT-I/OTCT-ND◆†	.29	.24	.20	3,000	180.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6001RT-E/OTCT-ND◆†	.32	.29	.24	3,000	220.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	SC-70-5	MCP6001T-E/LTCT-ND◆†	.38	.32	.26	3,000	240.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6001T-E/OTCT-ND◆†	.36	.29	.24	3,000	220.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	SC-70-5	MCP6001T-I/LTCT-ND◆†	.32	.26	.21	3,000	190.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP6001T-I/OTCT-ND◆†	.29	.24	.20	3,000	180.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6001UT-E/OTCT-ND◆†	.36	.29	.24	3,000	220.00/M
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP6001UT-I/OTCT-ND◆†	.29	.24	.20	3,000	180.00/M
2	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	8-DFN	MCP6002-E/MC-ND◆	.83	.69	.57	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6002-E/MS-ND◆	.40	.36	.30	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP6002-E/P-ND◆	.40	.36	.30	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6002-E/SN-ND◆	.40	.36	.30	—	—
	1,000kHz	140	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6002-I/MS-ND◆ ***NEW!***	.36	.33	.28	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP6002-I/P-ND◆	.36	.33	.28	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP6002-I/SN-ND◆	.36	.33	.28	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	8-MSOP	MCP6002T-I/MSCT-ND◆†	.41	.33	.28	2,500	250.00/M
4	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	14-DIP	MCP6004-E/P-ND◆	.52	.48	.40	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6004-E/SL-ND◆	.52	.48	.40	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6004-E/ST-ND◆	.52	.48	.40	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	14-DIP	MCP6004-I/P-ND◆	.48	.44	.36	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	14-SOIC	MCP6004-I/SL-ND◆	.48	.44	.36	—	—
	1,000kHz	100	.170	4.5	1.8 ~ 6.0	-40°C ~ 85°C	14-TSSOP	MCP6004-I/ST-ND◆	.48	.44	.36	—	—
1	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6021-E/P-ND◆	1.12	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6021-E/SN-ND◆	1.12	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	8-TSSOP	MCP6021-E/ST-ND◆	1.12	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP6021-I/P-ND◆	1.22	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP6021-I/SN-ND◆	1.22	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-TSSOP	MCP6021-I/ST-ND◆	1.22	1.02	.85	—	—
	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6021T-E/OTCT-ND◆†	1.22	.99	.83	3,000	750.00/M
2	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6022-E/P-ND◆	1.42	1.31	1.09	—	—
	10,000kHz	1,000	1.35	0.25	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6022-E/SN-ND◆	1.42	1.31	1.09	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP6022-I/P-ND◆	1.42	1.31	1.09	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Linear

Op Amps *(Cont.)*

No. per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
2	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP6022-I/SN-ND◆	1.42	1.31	1.09	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-TSSOP	MCP6022-E/ST-ND◆	1.42	1.31	1.09	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-TSSOP	MCP6022-I/ST-ND◆	1.42	1.31	1.09	—	—
1	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6023-E/P-ND◆	1.16	1.07	.89	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6023-E/SN-ND◆	1.16	1.07	.89	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-TSSOP	MCP6023-E/ST-ND◆	1.16	1.07	.89	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP6023-I/P-ND◆	1.16	1.07	.89	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP6023-I/SN-ND◆	1.16	1.07	.89	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	8-TSSOP	MCP6023-I/ST-ND	1.16	1.07	.89	—	—
4	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6024-E/P-ND◆	2.08	1.91	1.59	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6024-E/SL-ND◆	2.08	1.91	1.59	—	—
	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6024-E/ST-ND◆	2.08	1.91	1.59	—	—
	10MHz	10,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP6024-I/P-ND◆	2.08	1.91	1.59	—	—
	10MHz	10,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	14-SOIC	MCP6024-I/SL-ND◆	2.08	1.91	1.59	—	—
	10MHz	10,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 85°C	14-TSSOP	MCP6024-I/ST-ND◆	2.08	1.91	1.59	—	—
1	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6031-E/MS-ND◆	.78	.72	.60	—	—
	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6031-E/SN-ND◆	.78	.72	.60	—	—
	10kHZ	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6031T-E/OTCT-ND◆†	.83	.68	.56	3,000	510.00/M
2	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6032-E/MS-ND◆	1.04	.96	.80	—	—
	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6032-E/SN-ND◆	1.04	.96	.80	—	—
1	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6033-E/MS-ND◆	.89	.74	.61	—	—
	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6033-E/SN-ND◆	.89	.74	.61	—	—
4	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6034-E/SL-ND◆	1.86	1.70	1.41	—	—
	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6034-E/ST-ND◆	1.86	1.70	1.41	—	—
1	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-MSOP	MCP6041-I/MS-ND◆	.66	.60	.50	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP6041-I/P-ND◆	.66	.60	.50	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP6041-I/SN-ND◆	.66	.60	.50	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6041T-E/OTCT-ND◆†	.68	.56	.46	3,000	420.00/M
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	SOT-23-5	MCP6041T-I/OTCT-ND◆†	.68	.56	.46	3,000	420.00/M
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP6041T-I/SNCT-ND◆†	.74	.60	.50	3,300	450.00/M
2	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6042-E/MS-ND◆	.96	.80	.66	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP6042-E/P-ND◆	.96	.80	.66	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6042-E/SN-ND◆	.96	.80	.66	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-MSOP	MCP6042-I/MS-ND◆	.96	.80	.66	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP6042-I/P-ND◆	.96	.80	.66	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP6042-I/SN-ND◆	.96	.80	.66	—	—
1	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-MSOP	MCP6043-I/MS-ND◆	.76	.63	.53	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-DIP	MCP6043-I/P-ND◆	.76	.63	.53	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	8-SOIC	MCP6043-I/SN-ND◆	.76	.63	.53	—	—
4	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	14-DIP	MCP6044-E/P-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6044-E/SL-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6044-E/ST-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	14-DIP	MCP6044-I/P-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	14-SOIC	MCP6044-I/SL-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	14-TSSOP	MCP6044-I/ST-ND◆	1.54	1.41	1.18	—	—
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	14-SOIC	MCP6044T-I/SLCT-ND◆†	1.73	1.41	1.18	2,600	1070.00/M
	14kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 85°C	14-TSSOP	MCP6044T-I/STCT-ND◆†	1.73	1.41	1.18	2,500	1070.00/M
1	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6051-E/SN-ND◆	.76	.70	.58	—	—
	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6051T-E/MNYCT-ND◆†	.92	.75	.62	3,300	560.00/M
2	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6052-E/SN-ND◆	1.02	.93	.78	—	—
	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6052T-E/MNYCT-ND◆†	1.19	.98	.82	3,300	740.01/M
4	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6054-E/SL-ND◆	1.84	1.69	1.41	—	—
	385kHz	30	.045	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6054-E/ST-ND◆	1.84	1.69	1.41	—	—
1	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6061-E/SN-ND◆	.80	.67	.56	—	—
	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6061T-E/MNYCT-ND◆†	.88	.71	.60	3,300	540.01/M
2	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6062-E/SN-ND◆	1.07	.89	.74	—	—
	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6062T-E/MNYCT-ND◆†	1.17	.95	.79	3,300	720.01/M
4	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6064-E/SL-ND◆	1.80	1.65	1.37	—	—
	730kHz	60	.090	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6064-E/ST-ND◆	1.80	1.65	1.37	—	—
1	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6071-E/SN-ND◆	.70	.64	.53	—	—
	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6071T-E/MNYCT-ND◆†	.83	.68	.57	3,300	520.01/M
2	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6072-E/SN-ND◆	1.04	.87	.72	—	—
	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6072T-E/MNYCT-ND◆†	1.13	.92	.76	3,300	690.00/M
4	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6074-E/SL-ND◆	1.76	1.62	1.35	—	—
	1200kHz	110	.170	0.15	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6074-E/ST-ND◆	1.76	1.62	1.35	—	—
1	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6141T-E/OTCT-ND†	.68	.56	.46	3,000	420.00/M
2	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6142-E/MS-ND◆	.96	.80	.66	—	—
	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP6142-E/P-ND◆	.96	.80	.66	—	—
	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6142-E/SN-ND◆	.96	.80	.66	—	—
1	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	SOT-23-6	MCP6143T-E/CHCT-ND†	.74	.60	.50	—	—
4	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	14-DIP	MCP6144-E/P-ND◆	1.54	1.41	1.18	—	—
	100kHz	0.6	.001	3	1.4 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6144-E/ST-ND◆	1.54	1.41	1.18	—	—
1	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6231-E/MS-ND	.38	.32	.26	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP6231-E/P-ND◆	.38	.32	.26	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6231-E/SN-ND◆	.38	.32	.26	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6231RT-E/OTCT-ND◆†	.36	.30	.25	3,000	230.00/M
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6231T-E/OTCT-ND◆†	.36	.30	.25	3,000	230.00/M
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	SC-70-5	MCP6231UT-E/LTCT-ND◆†	.38	.32	.26	3,000	240.00/M
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6231UT-E/OTCT-ND◆†	.36	.30	.25	3,000	230.00/M
2	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6232-E/MS-ND◆	.47	.39	.33	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-DIP	MCP6232-E/P-ND◆	.47	.39	.33	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6232-E/SN-ND◆	.47	.39	.33	—	—
	300kHz	20	.03	5	1.8 ~ 6.0	-40°C ~ 125°C	8-TDFN	MCP6232T-E/MNYCT-ND◆†	.47	.39	.33	3,300	300.00/M
4	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	14-DIP	MCP6234-E/P-ND◆	.68	.62	.51	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6234-E/SL-ND◆	.68	.62	.51	—	—
	300kHz	20	.03	7	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6234-E/ST-ND◆	.68	.62	.51	—	—
1	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6241-E/MS-ND◆	.36	.30	.25	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6241-E/P-ND◆	.36	.30	.25	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6241-E/SN-ND◆	.36	.30	.25	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6241RT-E/OTCT-ND◆†	.36	.29	.24	3,000	220.00/M
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6241T-E/OTCT-ND◆†	.36	.29	.24	3,000	220.00/M
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	SC-70-5	MCP6241UT-E/LTCT-ND◆†	.36	.30	.25	3,000	230.00/M
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6241UT-E/OTCT-ND◆†	.36	.29	.24	3,000	220.00/M
2	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6242-E/P-ND◆	.40	.36	.30	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6242-E/SN-ND◆	.40	.36	.30	—	—
4	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6244-E/P-ND◆	.62	.57	.48	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6244-E/SL-ND◆	.62	.57	.48	—	—
	550kHz	50	.07	7	1.8 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6244-E/ST-ND◆	.62	.57	.48	—	—
1	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6271-E/MS-ND	.60	.50	.41	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6271-E/P-ND◆	.60	.50	.41	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6271-E/SN-ND◆	.60	.50	.41	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6271RT-E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6271T-E/OTCT-ND◆†	.52	.42	.35	3,000	320.00/M
2	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6272-E/P-ND◆	.74	.68	.56	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Linear

Op Amps *(Cont.)*

No. per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	10	25	Qty.	Pricing
2	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6272-E/MS-ND◆	.74	.68	.56	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6272-E/SN-ND◆	.74	.68	.56	—	—
1	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	SOT-23-6	MCP6273T-E/CHCT-ND◆†	.54	.44	.36	3,000	330.00/M
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6273-E/MS-ND◆	.58	.53	.44	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6273-E/P-ND	.58	.53	.44	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6273-E/SN-ND	.58	.53	.44	—	—
4	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6274-E/P-ND◆	1.32	1.22	1.01	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6274-E/SL-ND◆	1.32	1.22	1.01	—	—
	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6274-E/ST-ND◆	1.32	1.22	1.01	—	—
2	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6275-E/MS-ND	.74	.68	.56	—	—
	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6275-E/P-ND	.74	.68	.56	—	—
	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6275-E/SN-ND	.74	.68	.56	—	—
1	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6281-E/MS-ND	.66	.60	.50	—	—
	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6281-E/P-ND	.66	.60	.50	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6281-E/SN-ND	.66	.60	.50	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6281RT-E/OTCT-ND◆†	.59	.48	.40	—	—
2	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6282-E/MS-ND◆	.96	.80	.66	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6282-E/P-ND	.96	.80	.66	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6282-E/SN-ND◆	.96	.80	.66	—	—
1	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6283-E/MS-ND	.78	.65	.54	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6283-E/P-ND	.76	.63	.53	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6283-E/SN-ND	.76	.63	.53	—	
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	SOT-23-6	MCP6283T-E/CHCT-ND◆†	.61	.50	.41	3,000	380.00/M
4	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6284-E/P-ND	1.52	1.40	1.16	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6284-E/SL-ND◆	1.52	1.40	1.16	—	—
	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6284-E/ST-ND◆	1.52	1.40	1.16	—	—
2	5,000kHz	450	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6285-E/P-ND	.96	.80	.66	—	—
1	3.5MHz	540	.720	1,500µV	2.2 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6286T-E/OTCT-ND◆† ***NEW!***	.65	.54	.45	3,000	410.00/M
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6291-E/P-ND◆	.72	.66	.55	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6291-E/SN-ND	.72	.66	.55	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6291-E/MS-ND	.74	.68	.56	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6291RT-E/OTCT-ND◆†	.65	.54	.45	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6291T-E/OTCT-ND◆†	.65	.54	.45	3,000	410.00/M
2	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6292-E/MS-ND◆	1.04	.87	.73	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6292-E/P-ND◆	1.07	.89	.74	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6292-E/SN-ND◆	1.07	.89	.74	—	—
1	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6293-E/P-ND	.85	.71	.59	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6293-E/MS-ND	.76	.69	.58	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6293-E/SN-ND	.85	.71	.59	—	—
4	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6294-E/P-ND	1.66	1.53	1.28	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6294-E/SL-ND◆	1.66	1.53	1.28	—	—
	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6294-E/ST-ND◆	1.66	1.53	1.28	—	—
2	10,000kHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6295-E/P-ND	1.07	.89	.74	—	—
	10,000kHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6295-E/SN-ND	1.07	.89	.74	—	—
1	1,000kHz	45	70µA	4,500µV	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6401RT-E/OTCT-ND◆† ***NEW!***	.42	.35	.29	3,000	260.00/M
	1,000kHz	45	70µA	4,500µV	1.8 ~ 6.0	-40°C ~ 125°C	SC70-5	MCP6401T-E/LTCT-ND◆† ***NEW!***	.47	.39	.33	3,000	300.00/M
	1,000kHz	45	70µA	4,500µV	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6401T-E/OTCT-ND◆† ***NEW!***	.43	.35	.29	3,000	260.00/M
	1,000kHz	45	70µA	4,500µV	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6401UT-E/OTCT-ND◆† ***NEW!***	.43	.35	.29	3,000	260.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L01RT-E/OTCT-ND◆†	.32	.25	.21	3,000	190.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	SC-70-5	MCP6L01T-E/LTCT-ND◆†	.32	.26	.22	3,000	200.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L01T-E/OTCT-ND◆†	.32	.25	.21	3,000	190.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L01UT-E/OTCT-ND◆†	.32	.25	.21	3,000	190.00/M
2	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L02T-E/MSCT-ND◆†	.38	.31	.26	2,500	240.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L02T-E/SNCT-ND◆†	.38	.31	.26	3,300	240.00/M
4	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6L04T-E/SLCT-ND◆†	.50	.40	.34	2,600	310.00/M
	1,000kHz	85	0.17	5	1.8 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6L04T-E/STCT-ND◆†	.50	.40	.34	2,500	310.00/M
1	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L1RT-E/OTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L1T-E/MSCT-ND◆†	.45	.37	.31	2,500	280.00/M
	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L1T-E/OTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L1T-E/SNCT-ND◆†	.50	.40	.34	3,300	310.00/M
2	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L2T-E/MSCT-ND◆†	.65	.53	.44	2,500	400.00/M
	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L2T-E/SNCT-ND◆†	.65	.53	.44	3,300	400.00/M
4	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6L4T-E/SLCT-ND◆†	1.19	.98	.82	2,600	740.00/M
	2,800kHz	200	0.33	3	2.7 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6L4T-E/STCT-ND◆†	1.19	.98	.82	2,500	740.00/M
1	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L71RT-E/OTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L71T-E/MSCT-ND◆†	.50	.45	.38	2,500	340.00/M
	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L71T-E/OTCT-ND◆†	.45	.37	.31	3,000	280.00/M
	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L71T-E/SNCT-ND◆†	.50	.45	.38	3,300	340.00/M
2	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L72T-E/MSCT-ND◆†	.72	.59	.49	2,500	450.00/M
	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L72T-E/SNCT-ND◆†	.72	.59	.49	3,300	450.00/M
4	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6L74T-E/SLCT-ND◆†	1.31	1.06	.88	2,600	800.00/M
	2,000kHz	150	0.24	4	2.0 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6L74T-E/STCT-ND◆†	1.31	1.06	.88	2,500	800.00/M
1	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L91RT-E/OTCT-ND◆†	.59	.48	.40	3,000	360.00/M
	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L91T-E/MSCT-ND◆†	.72	.59	.49	2,500	450.00/M
	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	SOT-23-5	MCP6L91T-E/OTCT-ND◆†	.52	.48	.40	3,000	360.00/M
	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L91T-E/SNCT-ND◆†	.72	.59	.49	3,300	450.00/M
2	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	8-MSOP	MCP6L92T-E/MSCT-ND◆†	.95	.78	.65	2,500	590.00/M
	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	8-SOIC	MCP6L92T-E/SNCT-ND◆†	.95	.78	.65	3,300	590.00/M
4	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	14-SOIC	MCP6L94T-E/SLCT-ND◆†	1.69	1.37	1.14	2,600	1040.01/M
	10,000kHz	850	1.35	4	2.4 ~ 6.0	-40°C ~ 125°C	14-TSSOP	MCP6L94T-E/STCT-ND◆†	1.69	1.37	1.14	2,500	1040.01/M
1	12MHz	1mA	1.3	.275	2.5 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6S21-I/MS-ND◆	1.20	1.10	.92	—	—
	1.3MHz	300	.4	2	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V01-E/SN-ND◆	1.82	1.66	1.38	—	—
	1.3MHz	300	.4	2	1.8 ~ 5.5	-40°C ~ 125°C	8-TDFN	MCP6V01T-E/MNYCT-ND◆†	2.09	1.71	1.42	3,300	1290.01/M
	1.3MHz	300	.4	2	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V02-E/SN-ND◆	2.78	2.55	2.12	—	—
	1.3MHz	300	.4	2	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V03-E/SN-ND◆	1.90	1.74	1.45	—	—
	1.3MHz	300	.4	2	1.8 ~ 5.5	-40°C ~ 125°C	8-TDFN	MCP6V03T-E/MNYCT-ND◆†	2.18	1.79	1.49	—	—
	1.3MHz	300	.4	3	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V06-E/SN-ND◆	1.82	1.66	1.38	—	—
	1.3MHz	300	.4	3	1.8 ~ 5.5	-40°C ~ 125°C	8-TDFN	MCP6V06T-E/MNYCT-ND◆†	2.09	1.71	1.42	3,300	1290.01/M
	1.3MHz	300	.4	3	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V07-E/SN-ND◆	2.78	2.55	2.12	—	—
	1.3MHz	300	.4	3	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6V08-E/SN-ND◆	1.90	1.74	1.45	—	—
	1.3MHz	300	.4	3	1.8 ~ 5.5	-40°C ~ 125°C	8-TDFN	MCP6V08T-E/MNYCT-ND◆†	2.18	1.79	1.49	—	—
	2,000kHz	2,000	3.5	0.05	4.5 ~ 16	0°C ~ 70°C	8-DIP	TC7650CPA-ND◆	4.09	3.41	2.84	—	—
	2,000kHz	2,000	3.5	0.05	4.5 ~ 16	0°C ~ 70°C	14-DIP	TC7650CPD-ND◆	4.46	3.72	3.10	—	—
	400kHz	1,000	3	0.05	5 ~ 16	0°C ~ 70°C	8-DIP	TC7652CPA-ND◆	5.54	4.62	3.85	—	—
2	1,500kHz	650	0.85	0.15	7 ~ 16	0°C ~ 70°C	8-SOIC	TC913ACOA-ND◆	8.42	7.02	5.85	—	—
	1,500kHz	650	0.85	0.15	7 ~ 16	0°C ~ 70°C	8-DIP	TC913ACPA-ND◆	9.02	7.52	6.27	—	—
	1,500kHz	650	1.1	0.30	7 ~ 16	0°C ~ 70°C	8-SOIC	TC913BCOA-ND◆	5.48	4.57	3.81	—	—
	1,500kHz	650	1.1	0.30	7 ~ 16	0°C ~ 70°C	8-DIP	TC913BCPA-ND◆	5.89	4.91	4.09	—	—
	90kHz	6	.08	1.5	1.8 ~ 5.5	-40°C ~ 85°C	8-SOIC	TC1029EOA-ND◆	1.76	1.62	1.35	—	—
Evaluation Board for MCP651								MCP651EV-VOS-ND◆ ***NEW!***	30.00	—	—	—	—
MCP661 Line Driver Demo Board								MCP661DM-LD-ND◆ ***NEW!***	19.99	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Programmable Gain Amplifiers

Digi-Reel®

Switching Channels	-3dB BW (MHz)	Iq Typical (mA)	Vos (µV)	Operating Voltage Range (V)	Temperature Range	Interface	Gain Steps	Noise	VREF	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
												1	10	25	Qty.	Pricing
1	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-MSOP	MCP6G01-E/MS-ND◆	.52	.48	.40	—	—
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-SOIC	MCP6G01-E/SN-ND◆	.58	.48	.40	—	—
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	SOT-23-5	MCP6G01RT-E/OTCT-ND◆†	.50	.45	.38	3,000	340.00/M
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	SOT-23-5	MCP6G01T-E/OTCT-ND◆†	.56	.45	.38	3,000	340.00/M
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	SOT-23-5	MCP6G01UT-E/OTCT-ND◆†	.50	.45	.38	3,000	340.00/M
2	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-MSOP	MCP6G02-E/MS-ND◆	.66	.61	.50	—	—
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-SOIC	MCP6G02-E/SN-ND◆	.66	.61	.50	—	—
1	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-MSOP	MCP6G03-E/MS-ND◆	.52	.48	.40	—	—
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-SOIC	MCP6G03-E/SN-ND◆	.52	.48	.40	—	—
4	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	14-SOIC	MCP6G04-E/SL-ND◆	1.06	.98	.82	—	—
	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	14-TSSOP	MCP6G04-E/ST-ND◆	1.06	.98	.82	—	—
1	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-DIP	MCP6S21-I/P-ND◆	1.28	1.18	.98	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-SOIC	MCP6S21-I/SN-ND◆	1.20	1.10	.92	—	—
2	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-MSOP	MCP6S22-I/MS-ND◆	1.38	1.27	1.06	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-DIP	MCP6S22-I/P-ND◆	1.50	1.38	1.15	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-SOIC	MCP6S22-I/SN-ND◆	1.38	1.27	1.06	—	—
6	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	14-DIP	MCP6S26-I/P-ND◆	2.32	2.13	1.77	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	14-SOIC	MCP6S26-I/SL-ND◆	2.20	2.02	1.68	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	14-TSSOP	MCP6S26-I/ST-ND◆	2.20	2.02	1.68	—	—
8	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	16-DIP	MCP6S28-I/P-ND◆	2.66	2.44	2.03	—	—
	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	16-SOIC	MCP6S28-I/SL-ND◆	2.44	2.24	1.86	—	—
1	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-MSOP	MCP6S91-E/MS-ND◆	.92	.85	.71	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-DIP	MCP6S91-E/P-ND◆	1.00	.92	.76	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-SOIC	MCP6S91-E/SN-ND◆	.92	.85	.71	—	—
2	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-MSOP	MCP6S92-E/MS-ND◆	1.10	1.01	.84	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-DIP	MCP6S92-E/P-ND◆	1.18	1.09	.91	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-SOIC	MCP6S92-E/SN-ND◆	1.10	1.01	.84	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	10-MSOP	MCP6S93-E/UN-ND◆	1.38	1.27	1.06	—	—
	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	10-MSOP	MCP6S93T-E/UNCT-ND◆†	1.55	1.27	1.06	2,500	960.00/M
PICtail™ Daughter Board Board for MCP6SX2											MCP6SX2DM-PCTLPD-ND	25.00	—	—	—	—
Demo Board for MCP6S22											MCP6S22DM-PICTL-ND	40.00	—	—	—	—
Board Amplifier Evaluation 1 MCP6XXX											MCP6XXXEV-AMP1-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 2 MCP6XXX											MCP6XXXEV-AMP2-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 3 MCP6XXX											MCP6XXXEV-AMP3-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 4 MCP6XXX											MCP6XXXEV-AMP4-ND◆	30.00	—	—	—	—
Demo Board for MCP6V01											MCP6V01DM-VOS-ND◆ ***NEW!***	25.00	—	—	—	—
Thermocouple Auto-Zeroed Reference Design for MCP6V01											MCP6V01RD-TCPL-ND◆	50.00	—	—	—	—
Demo Board for MCP6031											MCP6031DM-PTPLS-ND◆	15.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Comparators

Digi-Reel®

No. per Package	Typical Propagation Delay (µs)	Iq Typical (µA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	10	25	Qty.	Pricing
1	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6541-E/MS-ND◆	.50	.45	.38	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6541-E/P-ND◆	.50	.45	.38	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6541-E/SN-ND◆	.50	.45	.38	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6541RT-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6541T-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	SC-70-5	MCP6541T-I/LTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6541UT-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	SC-70-5	MCP6541UT-I/LTCT-ND◆†	.43	.36	.30	3,000	270.00/M
2	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6542-E/MS-ND◆	.62	.57	.48	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6542-E/P-ND◆	.62	.57	.48	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6542-E/SN-ND◆	.62	.57	.48	—	—
1	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6543-E/MS-ND◆	.52	.48	.40	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6543-E/P-ND◆	.52	.48	.40	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6543T-E/SNCT-ND◆†	.59	.48	.40	3,300	360.00/M
4	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6544-E/P-ND◆	1.32	1.21	1.01	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6544-E/SL-ND◆	1.32	1.21	1.01	—	—
	4	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6544-E/ST-ND◆	1.32	1.21	1.01	—	—
1	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6546-E/MS-ND◆	.50	.45	.38	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6546-E/P-ND◆	.50	.45	.38	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6546-E/SN-ND◆	.50	.45	.38	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6546-I/MS-ND	.50	.45	.38	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP6546-I/SN-ND	.54	.45	.38	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6546RT-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	SC-70-5	MCP6546T-I/LTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6546T-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	SOT-23-5	MCP6546T-I/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6546UT-E/OTCT-ND◆†	.43	.36	.30	3,000	270.00/M
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	SC-70-5	MCP6546UT-I/LTCT-ND◆†	.43	.36	.30	3,000	270.00/M
2	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6547-E/MS-ND◆	.62	.57	.48	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6547-E/P-ND◆	.62	.57	.48	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6547-E/SN-ND◆	.62	.57	.48	—	—
1	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6548-E/P-ND◆	.52	.48	.40	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6548-E/MS-ND◆	.52	.48	.40	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6548-I/MS-ND◆	.52	.48	.40	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6548-E/SN-ND◆	.52	.48	.40	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	8-SOIC	MCP6548-I/SN-ND	.58	.48	.40	—	—
4	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP6549-I/P-ND	1.45	1.21	1.01	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	14-SOIC	MCP6549-I/SL-ND◆	1.45	1.21	1.01	—	—
	3	0.6	7	1.6 ~ 5.5	-40°C ~ 85°C	14-TSSOP	MCP6549-I/ST-ND◆	1.32	1.21	1.01	—	—
1	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6561RT-E/OTCT-ND◆†	.56	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SC-70-5	MCP6561T-E/LTCT-ND◆†	.63	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6561T-E/OTCT-ND◆†	.63	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6561UT-E/OTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6566UT-E/OTCT-ND◆† ***NEW!***	.63	.51	.43	3,000	390.00/M
2	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6562-E/MS-ND◆	.78	.71	.60	—	—
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6562-E/SN-ND◆	.78	.71	.60	—	—
4	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6564-E/SL-ND◆	1.73	1.44	1.20	—	—
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6564-E/ST-ND◆	1.73	1.44	1.20	—	—
1	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6566RT-E/OTCT-ND◆†	.56	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SC-70-5	MCP6566T-E/LTCT-ND◆†	.63	.51	.43	3,000	390.00/M
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	SOT-23-5	MCP6566T-E/OTCT-ND◆†	.63	.51	.43	3,000	390.00/M
2	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6567-E/MS-ND◆	.78	.71	.60	—	—
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	8-SOIC	MCP6567-E/SN-ND◆	.78	.71	.60	—	—
4	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6569-E/SL-ND◆	1.73	1.44	1.20	—	—
	.045	100	10	1.8 ~ 5.5	-40°C ~ 125°C	14-TSSOP	MCP6569-E/ST-ND◆	1.73	1.44	1.20	—	—
Kit Demo Board Active Filter							MCP6XXXDM-FLTR-ND	65.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Thermal Management
Temperature Sensors

Typical Accuracy (°)	Temperature Range	Vcc Range (V)	Maximum Supply Current	Package	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing
					Logic Output					
±0.5	-40°C ~ 125°C	2.7 ~ 5.5	50µA	SOT-23-5	MCP9509CT-E/OTCT-ND◆†	1.06	.85	.71	3,000	650.00/M
	-40°C ~ 125°C	2.7 ~ 5.5	50µA	SOT-23-5	MCP9509HT-E/OTCT-ND◆†	1.06	.85	.71	3,000	650.00/M
	-40°C ~ 125°C	2.7 ~ 5.5	80µA	SOT-23-6	MCP9510CT-E/CHCT-ND◆†	1.06	.85	.71	3,000	650.00/M
	-40°C ~ 125°C	2.7 ~ 5.5	80µA	SOT-23-6	MCP9510HT-E/CHCT-ND◆†	1.06	.85	.71	3,000	650.00/M
±1	-55°C ~ 125°C	4.5 ~ 18	400µA	8-SOIC	TC620CEOA-ND◆	1.52	1.40	1.16	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-DIP	TC620CEPA-ND◆	1.58	1.44	1.20	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-DIP	TC620CCPA-ND◆	1.30	1.20	1.00	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-SOIC	TC620HEOA-ND◆	1.52	1.40	1.16	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-DIP	TC620HEPA-ND◆	1.58	1.44	1.20	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-SOIC	TC621CCOA-ND◆	1.24	1.13	.94	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-SOIC	TC621CEOA-ND◆	1.52	1.40	1.16	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-DIP	TC621CEPA-ND◆	1.58	1.44	1.20	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-SOIC	TC621HEOA-ND◆	1.52	1.40	1.16	—	—
	-55°C ~ 125°C	4.5 ~ 18	400µA	8-DIP	TC621HEPA-ND◆	1.58	1.44	1.20	—	—
	-40°C ~ 125°C	4.5 ~ 18	600µA	8-DIP	TC622EPA-ND◆	1.22	1.12	.93	—	—
	-40°C ~ 125°C	4.5 ~ 18	600µA	TO-220	TC622VAT-ND◆	1.92	1.75	1.46	—	—
	-40°C ~ 125°C	4.5 ~ 18	600µA	8-SOIC	TC622VOA-ND◆	1.38	1.27	1.06	—	—
	-40°C ~ 125°C	2.7 ~ 4.5	300µA	8-SOIC	TC624VOA-ND◆	1.62	1.49	1.24	—	—
	-40°C ~ 125°C	2.7 ~ 4.5	300µA	8-DIP	TC624VPA-ND◆	1.52	1.40	1.16	—	—
±0.5	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P045VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P055VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P065VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P075VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P085VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P095VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P105VCTTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P115VCTTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P120VCT-ND◆†	.99	.82	.68	—	—
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P120VCTTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6501P125VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P045VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P055VCCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P065VCCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P075VCCT-ND†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P085VCCT-ND†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P095VCCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P105VCCT-ND†	.88	.73	.61	—	—
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P115VCCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6502P125VCTTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6503N015VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6503P005VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6504N015VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
	-40°C ~ 135°C	2.7 ~ 5.5	40µA	SOT-23A-5	TC6504P005VCTCT-ND◆†	.88	.73	.61	3,000	550.00/M
					Serial Output — RoHS Compliant					
±2	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TSSOP	MCP98242-BE/ST-ND	1.10	1.01	.84	—	—
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-UDFN	MCP98242T-BE/MUYCT-ND†	1.24	1.01	.84	3,300	760.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-DFN	MCP98242T-BE/MCA2CT-ND†	1.24	1.01	.84	3,300	760.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TDFN	MCP98242T-BE/MNYCT-ND†	1.24	1.01	.84	3,300	760.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-DFN	MCP98242T-CE/MCCT-ND†	1.06	.85	.71	3,300	650.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TDFN	MCP98242T-CE/MNYCT-ND†	1.06	.85	.71	3,300	650.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-UDFN	MCP98242T-CE/MUYCT-ND†	1.06	.85	.71	3,300	650.00/M
±0.5	-55°C ~ 125°C	2.65 ~ 5.5	400µA	8-MSOP	TC72-2.8MUA-ND	1.00	.92	.76	—	—
	-55°C ~ 125°C	2.65 ~ 5.5	400µA	8-MSOP	TC72-3.3MUA-ND	1.00	.92	.76	—	—
	-55°C ~ 125°C	2.65 ~ 5.5	400µA	8-MSOP	TC72-5.0MUA-ND	1.00	.92	.76	—	—
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	TO-220-5	TC74A0-3.3VAT-ND	1.64	1.37	1.14	—	—
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	SOT-23-5	TC74A0-3.3VCTCT-ND†	1.06	.87	.72	3,000	660.01/M
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	TO-220-5	TC74A0-5.0VAT-ND	1.64	1.37	1.14	—	—
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-DFN	MCP98243-BE/MC-ND	1.10	1.01	.84	—	—
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TSSOP	MCP98243-BE/ST-ND	1.10	1.01	.84	—	—
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TSSOP	MCP9843-BE/ST-ND ***NEW!***	.92	.85	.71	—	—
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-DFN	MCP9843T-BE/MCCT-ND† ***NEW!***	1.04	.85	.71	3,300	650.00/M
	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TDFN	MCP9843T-BE/MNYCT-ND† ***NEW!***	1.04	.85	.71	3,300	650.00/M
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	SOT-23A-5	TC74A0-5.0VCTCT-ND†	1.06	.87	.72	3,000	660.01/M
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	SOT-23A-5	TC74A5-3.3VCTCT-ND†	1.06	.87	.72	3,000	660.01/M
	-40°C ~ 125°C	2.7 ~ 5.5	350µA	SOT-23A-5	TC74A5-5.0VCTCT-ND†	1.06	.87	.72	3,000	660.01/M
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	SOT-23-5	TC77-3.3MCTTRCT-ND†	1.22	.99	.83	3,000	750.00/M
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-SOIC	TC77-3.3MOA-ND	1.00	.92	.76	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	SOT-23-5	TC77-5.0MCTTRCT-ND†	1.22	.99	.83	3,000	750.00/M
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-SOIC	TC77-5.0MOA-ND	1.00	.92	.76	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-SOIC	TCN75AVOA-ND	.84	.70	.58	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-MSOP	TCN75AVUA-ND	.84	.70	.58	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-SOIC	TCN75-3.3MOA-ND	1.45	1.21	1.01	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-MSOP	TCN75-3.3MUA-ND	1.51	1.26	1.05	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-SOIC	TCN75-5.0MOA-ND	1.45	1.21	1.01	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	1,000µA	8-MSOP	TCN75-5.0MUA-ND	1.51	1.26	1.05	—	—
					Voltage Output					
±0.5	-40°C ~ 125°C	2.7 ~ 4.4	60µA	SOT-23B	TC1046VNBTRCT-ND◆†	.70	.59	.49	3,000	450.00/M
	-40°C ~ 125°C	2.7 ~ 5.5	60µA	SOT-23B	TC1047AVNBCT-ND◆†	.74	.62	.52	3,000	470.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Thermal Management

Temperature Sensors *(Cont.)*

Typical Accuracy (°)	Temperature Range	Vcc Range (V)	Maximum Supply Current	Package	Digi-Key Part No.	Price Each			Tape and Reel‡	
						1	10	25	Qty.	Pricing
±1	-40°C ~ 150°C	2.3 ~ 5.5	6µA	TO-92-3	MCP9700-E/TO-ND◆	.30	.25	.21	—	—
	-40°C ~ 150°C	2.3 ~ 5.5	6µA	TO-92-3	MCP9700A-E/TO-ND◆	.34	.31	.26	—	—
	-40°C ~ 150°C	2.3 ~ 5.5	6µA	SC70-5	MCP9700AT-E/LTCT-ND◆†	.38	.31	.26	3,000	240.00/M
	-40°C ~ 150°C	2.3 ~ 5.5	6µA	SC-70-5	MCP9700T-E/LTCT-ND◆†	.29	.25	.21	3,000	190.00/M
	-40°C ~ 150°C	2.3 ~ 5.5	6µA	SOT-23-3	MCP9700T-E/TTCT-ND◆†	.29	.25	.21	3,000	190.00/M
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	TO-92-3	MCP9701-E/TO-ND◆	.30	.25	.21	—	—
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	TO-92-3	MCP9701A-E/TO-ND◆	.34	.31	.26	—	—
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	SC-70-5	MCP9701AT-E/LTCT-ND◆†	.38	.31	.26	3,000	240.00/M
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	SOT-23-3	MCP9701AT-E/TTCT-ND◆†	.38	.31	.26	3,000	240.00/M
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	SC-70-5	MCP9701T-E/LTCT-ND◆†	.29	.25	.21	3,000	190.00/M
	-40°C ~ 125°C	3.1 ~ 5.5	6µA	SOT-23-3	MCP9701T-E/TTCT-ND◆†	.20	.18	.15	3,000	127.06/M
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	400µA	SOT-23-5	MCP9800A0T-M/OTCT-ND◆†	1.42	1.20	1.00	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-MSOP	MCP9801-M/MS-ND◆	1.34	1.12	.93	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-SOIC	MCP9801-M/SN-ND◆	1.34	1.12	.93	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	SOT-23-5	MCP9802A0T-M/OTCT-ND◆†	1.49	1.26	1.05	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	SOT-23-5	MCP9802A5T-M/OTCT-ND◆†	1.49	1.26	1.05	3,000	950.00/M
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-MSOP	MCP9803-M/MS-ND◆	1.44	1.20	1.00	—	—
	-55°C ~ 125°C	2.7 ~ 5.5	400µA	8-SOIC	MCP9803-M/SN-ND◆	1.44	1.20	1.00	—	—
±0.25	-40°C ~ 125°C	2.7 ~ 5.5	400µA	8-MSOP	MCP9804-E/MS-ND◆ ***NEW!***	1.82	1.68	1.40	—	—
	-40°C ~ 125°C	2.7 ~ 5.5	400µA	8-DFN	MCP9804T-E/MCCT-ND◆† ***NEW!***	2.05	1.68	1.40	3,300	1270.00/M
±2	-40°C ~ 125°C	3.0 ~ 3.6	500µA	8-TSSOP	MCP9805-BE/ST-ND◆	.94	.85	.71	—	—
Demo Board for PICtail™ MCP2030					MCP2030DM-TPR-ND	160.00	—	—	—	—
Low Power Linear Active Thermistor Demo Board					MCP9700DM-TH1-ND◆	45.00	—	—	—	—
Demo Board 2 for MCP9800					MCP9800DM-DL2-ND	30.00	—	—	—	—
Demo Board for PICtail™ MCP9800					MCP9800DM-PCTL-ND	25.00	—	—	—	—
Demo Board for MCP9800					MCP9800DM-TS1-ND◆	35.00	—	—	—	—
Mixed Signal PICtail™ Demo Board					MXSIGDM-ND	65.00	—	—	—	—
Temperature-to-Voltage Converter Demo Board for TC1047A					TC1047ADM-PICTL-ND◆	10.00	—	—	—	—
Digital Temperature Sensor PICtail Demo Board					TC72DM-PICTL-ND◆	10.00	—	—	—	—
Demo Board PICtail™ TC77					TC77DM-PICTL-ND◆	10.00	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Fan Controllers

Typical Accuracy (°)	Temperature Range	Vcc Range (V)	Maximum Supply Current	Package	Digi-Key Part No.	Price Each		
						1	10	25
Varies on External Thermistor	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-SOIC	TC642BEOA-ND◆	1.39	1.16	.97
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-DIP	TC642BEPA-ND◆	1.58	1.32	1.10
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-MSOP	TC642BEUA-ND◆	1.45	1.21	1.01
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC642COA-ND◆	1.66	1.38	1.15
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC642CPA-ND◆	1.72	1.43	1.19
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC642EOA-ND◆	1.82	1.52	1.27
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC642EUA-ND◆	1.68	1.40	1.16
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC642VPA-ND	1.86	1.55	1.29
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-SOIC	TC646BEOA-ND◆	1.39	1.16	.97
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-DIP	TC646BEPA-ND◆	1.58	1.32	1.10
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-MSOP	TC646BEUA-ND◆	1.45	1.21	1.01
	-40°C ~ 125°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC646EOA-ND◆	1.82	1.52	1.27
	-40°C ~ 125°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC646EUA-ND◆	1.68	1.40	1.16
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC646VOA-ND◆	1.78	1.48	1.23
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC646VPA-ND◆	1.86	1.55	1.29
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC647BEOA-ND◆	1.34	1.12	.93
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-DIP	TC647BEPA-ND◆	1.52	1.27	1.06
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-MSOP	TC647BEUA-ND◆	1.39	1.16	.97
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-SOIC	TC647EOA-ND◆	1.68	1.40	1.16
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC647EUA-ND◆	1.56	1.30	1.09
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC647VPA-ND◆	1.62	1.35	1.13
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-SOIC	TC648BEOA-ND◆	1.31	1.09	.91
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-DIP	TC648BEPA-ND◆	1.48	1.23	1.02
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-MSOP	TC648BEUA-ND◆	1.36	1.13	.94
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC648EOA-ND◆	1.52	1.27	1.06
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC648EUA-ND◆	1.51	1.26	1.05
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC648VOA713CT-ND◆†	1.46	1.23	1.02
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC648VOA713TR-ND◆‡	3069.00/3,300		
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC648VPA-ND◆	1.56	1.30	1.09
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC648VUA-ND	1.42	1.18	.98
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-SOIC	TC649BEOA-ND◆	1.34	1.12	.93
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-DIP	TC649BEPA-ND◆	1.52	1.27	1.06
	-40°C ~ 85°C	3.0 ~ 5.5	400µA	8-MSOP	TC649BEUA-ND◆	1.39	1.16	.97
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC649EOA-ND◆	1.68	1.40	1.16
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-MSOP	TC649EUA-ND◆	1.56	1.30	1.09
	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-DIP	TC649VPA-ND◆	1.62	1.35	1.13
	-40°C ~ 85°C	3.0 ~ 5.5	300µA	10-MSOP	TC654EUN-ND◆	2.40	2.00	1.67
	-40°C ~ 85°C	3.0 ~ 5.5	300µA	10-MSOP	TC655EUN-ND◆	2.52	2.10	1.75
	-40°C ~ 85°C	3.0 ~ 5.5	300µA	10-MSOP	TC664EUN-ND◆	2.12	1.77	1.48
	-40°C ~ 85°C	3.0 ~ 5.5	300µA	10-MSOP	TC665EUN-ND◆	2.20	1.83	1.53
±1	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC650ACVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC650AEVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC650AGVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC650BEVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC650CGVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC651ACVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC651AEVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC651AGVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC651BEVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC651CGVUA-ND◆	1.81	1.51	1.26
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC652ACVUA-ND◆	2.16	1.80	1.50
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC652AEVUA-ND◆	2.16	1.80	1.50
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC652AGVUA-ND◆	2.16	1.80	1.50
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC653ACVUA-ND◆	2.16	1.80	1.50
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC653AEVUA-ND◆	2.16	1.80	1.50
	-40°C ~ 125°C	2.8 ~ 5.5	90µA	8-MSOP	TC653AGVUA-ND◆	2.16	1.80	1.50
—	-40°C ~ 85°C	3.0 ~ 5.5	150µA	SOT23A-6	TC670ECHTRCT-ND◆†	1.58	1.32	1.10
	-40°C ~ 85°C	3.0 ~ 5.5	150µA	SOT23A-6	TC670ECHTRTR-ND◆‡	3000.00/3,000		

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MICROCHIP Interface

Serial Peripherals

RoHS COMPLIANT

Description	Operating Voltage (V)	Interface	Maximum Bus Frequency (kBits/s)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	25
8-bit I/O Port Expander	1.8 ~ 5.5	I^{2}C™	1700	-40°C ~ 125°C	20-QFN	MCP23008-E/ML-ND	1.32	1.10	.92
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	18-DIP	MCP23008-E/P-ND	1.22	1.02	.85
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	18-SOIC	MCP23008-E/SO-ND	1.22	1.02	.85
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	20-SSOP	MCP23008-E/SS-ND	1.32	1.10	.92
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	16-QFN	MCP23009-E/MG-ND	1.45	1.21	1.01
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	18-DIP	MCP23009-E/P-ND	1.24	1.13	.94
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	18-SOIC	MCP23009-E/SO-ND	1.24	1.13	.94
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	18-SSOP	MCP23009-E/SS-ND	1.24	1.13	.94
	1.8 ~ 5.5	SPI™	10,000	-40°C ~ 125°C	20-QFN	MCP23S08-E/ML-ND	1.38	1.15	.96
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	18-DIP	MCP23S08-E/P-ND	1.28	1.07	.89
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	20-SSOP	MCP23S08-E/SS-ND	1.38	1.15	.96
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	16-QFN	MCP23S09-E/MG-ND	1.52	1.27	1.06
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	18-DIP	MCP23S09-E/P-ND	1.30	1.20	1.00
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	18-SOIC	MCP23S09-E/SO-ND	1.30	1.20	1.00
16-bit I/O Port Expander	1.8 ~ 5.5	I^{2}C	10,000	-40°C ~ 125°C	24-QFN	MCP23S18-E/MJ-ND	1.92	1.60	1.33
	1.8 ~ 5.5	I^{2}C	10,000	-40°C ~ 125°C	28-SOIC	MCP23S18-E/SO-ND	1.92	1.60	1.33
	1.8 ~ 5.5	I^{2}C	10,000	-40°C ~ 125°C	28-SDIP	MCP23S18-E/SP-ND	1.92	1.60	1.33
	2.0 ~ 5.5	I^{2}C	400	-40°C ~ 85°C	28-QFN	MCP23016-I/ML-ND	2.03	1.69	1.41
	2.0 ~ 5.5	I^{2}C	400	-40°C ~ 85°C	28-SOIC	MCP23016-I/SO-ND	1.90	1.58	1.32
	2.0 ~ 5.5	I^{2}C	400	-40°C ~ 85°C	28-DIP	MCP23016-I/SP-ND	1.90	1.58	1.32
	2.0 ~ 5.5	I^{2}C	400	-40°C ~ 85°C	28-SSOP	MCP23016-I/SS-ND	2.03	1.69	1.41
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	28-QFN	MCP23017-E/ML-ND	1.69	1.41	1.18
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	28-SOIC	MCP23017-E/SO-ND	1.44	1.20	1.00
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	28-DIP	MCP23017-E/SP-ND	1.44	1.20	1.00
	1.8 ~ 5.5	I^{2}C	1700	-40°C ~ 125°C	28-SSOP	MCP23017-E/SS-ND	1.51	1.26	1.05
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	24-QFN	MCP23018-E/MJ-ND	1.81	1.51	1.26
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	24-SOIC	MCP23018-E/SO-ND	1.81	1.51	1.26
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	28-DIP	MCP23018-E/SP-ND	1.81	1.51	1.26
	1.8 ~ 5.5	I^{2}C	3400	-40°C ~ 125°C	24-SSOP	MCP23018-E/SS-ND	1.82	1.66	1.38
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	28-QFN	MCP23S17-E/ML-ND	1.81	1.51	1.26
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	28-SOIC	MCP23S17-E/SO-ND	1.51	1.26	1.05
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	28-DIP	MCP23S17-E/SP-ND	1.51	1.26	1.05
	1.8 ~ 5.5	SPI	10,000	-40°C ~ 125°C	28-SSOP	MCP23S17-E/SS-ND	1.58	1.32	1.10
Evaluation Board for MCP23X17						MCP23X17EV-ND	40.00	—	—

Ethernet

Digi-Reel® RoHS COMPLIANT

MAC	PHY	TX/RX Dual Port RAM Buffer (KB)	Interrupts	LED	Operating Voltage (V)	Temperature Range	Maximum Speed MHz	Serial	Package	Digi-Key Part No.	Price Each 1	10	25
Yes	Yes	8	2	2	3.1 ~ 3.6	0°C ~ 70°C	25	SPI	28-SSOP	ENC28J60/SS-ND	3.56	2.79	2.56
	Yes	8	2	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-QFN	ENC28J60-I/ML-ND	3.80	2.99	2.74
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-SOIC	ENC28J60-I/SO-ND	3.60	2.83	2.60
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-DIP	ENC28J60-I/SP-ND	3.86	3.03	2.77
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-SSOP	ENC28J60-I/SS-ND ***NEW!***	3.54	2.79	2.56
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-SSOP	ENC28J60T-I/SSCT-ND† ***NEW!***	4.07	2.84	2.61
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-SSOP	ENC28J60T-I/SSTR-ND‡ ***NEW!***	4956.01/2,100		
	Yes	8	1	2	3.1 ~ 3.6	-40°C ~ 85°C	25	SPI	28-SOIC	ENC28J60T-I/SOTR-ND‡ ***NEW!***	3824.00/1,600		
	Yes	24	1	2	3.0 ~ 3.6	-40°C ~ 85°C	25	SPI	44-QFN	ENC424J600-I/ML-ND ***NEW!***	4.78	3.76	3.45
	Yes	24	1	2	3.0 ~ 3.6	-40°C ~ 85°C	25	SPI	44-TQFP	ENC424J600-I/PT-ND ***NEW!***	4.56	3.58	3.29
	Yes	24	1	2	3.0 ~ 3.6	-40°C ~ 85°C	25	SPI	64-TQFP	ENC624J600-I/PT-ND ***NEW!***	4.94	3.87	3.55

† Cut Tape ‡ Tape and Reel

NEW! Inductive Sensor Analog Front End Devices

RoHS COMPLIANT

Description	Operating Voltage (V)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	25
Keyless Entry	2.7 ~ 5.5	-40°C ~ 85°C	14-PDIP	MCP2036-I/P-ND	.80	.63	.57
Keyless Entry	2.7 ~ 5.5	-40°C ~ 85°C	14-SOIC	MCP2036-I/SL-ND	.62	.48	.44
Keyless Entry	2.7 ~ 5.5	-40°C ~ 85°C	16-QFN	MCP2036-I/MG-ND	.74	.58	.53

NEW! USB to UART

RoHS COMPLIANT

Description	Number of Channels	Supply Voltage (V)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	25
USB to UART Protocol Converter	8	3.0 ~ 5.5	-40°C ~ 85°C	20-QFN	MCP2200-I/MQ-ND	2.30	2.10	1.75
	8	3.0 ~ 5.5	-40°C ~ 85°C	20-SOIC	MCP2200-I/SO-ND	2.12	1.94	1.62
	8	3.0 ~ 5.5	-40°C ~ 85°C	20-SSOP	MCP2200-I/SS-ND	2.12	1.94	1.62
MCP2200 USB to RS-232 Demo Board					MCP2200EV-VCP-ND	23.99	—	—

Infrared Products

Digi-Reel®

Description	Operating Voltage Range (V)	Temperature Range	Maximum Baud Rate (kBaud)	TX/RX Formats Supported (µS)	Package	Digi-Key Part No.	Price Each 1	10	25
Infrared Encoder/Decoder	2.5 ~ 5.5	-40°C ~ 85°C	325	1.63	14-DIP	MCP2120-I/P-ND◆	1.16	1.06	.88
	2.5 ~ 5.5	-40°C ~ 85°C	325	1.63	14-SOIC	MCP2120-I/SL-ND◆	1.16	1.06	.88
	1.8 ~ 5.5	-40°C ~ 125°C	115.2	1.63	8-DIP	MCP2122-E/P-ND◆	.76	.70	.58
	1.8 ~ 5.5	-40°C ~ 125°C	115.2	1.63	8-SOIC	MCP2122-E/SN-ND◆	.76	.70	.58
	1.8 ~ 5.5	-40°C ~ 125°C	115.2	1.63	8-SOIC	MCP2122T-E/SNCT-ND◆†	.86	.70	.58
	1.8 ~ 5.5	-40°C ~ 125°C	115.2	1.63	8-SOIC	MCP2122T-E/SNTR-ND◆‡	1749.00/3,300		

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Interface

Infrared Products *(Cont.)*

Description	Operating Voltage Range (V)	Temperature Range	Maximum Baud Rate (kBaud)	TX/RX Formats Supported (µS)	Package	Digi-Key Part No.	Price Each 1	10	25
Fixed Speed 9600 Baud IrDA® Protocol Stack Controller	2.7 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-DIP	MCP2140-I/P-ND	2.46	2.05	1.71
	2.7 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-SOIC	MCP2140-I/SO-ND◆	2.46	2.05	1.71
	2.7 ~ 5.5	-40°C ~ 85°C	9.6	1.63	20-SSOP	MCP2140-I/SS-ND◆	2.59	2.16	1.80
IrDA® Standard Protocol Stack Controller with Fixed 9600 Baud Communication Rate	2.0 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-DIP	MCP2140A-I/P-ND◆	2.02	1.85	1.54
	2.0 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-SOIC	MCP2140A-I/SO-ND◆	2.24	2.05	1.71
	2.0 ~ 5.5	-40°C ~ 85°C	9.6	1.63	20-SSOP	MCP2140A-I/SS-ND◆	2.36	2.16	1.80
IrDA® Protocol Stack handler plus bit encoding/decoding for DTE applications	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-DIP	MCP2150-I/P-ND◆	4.38	4.02	3.35
	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-SOIC	MCP2150-I/SO-ND◆	4.38	4.02	3.35
	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	20-SSOP	MCP2150-I/SS-ND◆	4.38	4.02	3.35
IrDA® Protocol Stack handler plus bit encoding/decoding for DCE applications	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-DIP	MCP2155-I/P-ND◆	4.38	4.02	3.35
	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-SOIC	MCP2155-I/SO-ND◆	4.38	4.02	3.35
	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	20-SSOP	MCP2155-I/SS-ND◆	4.38	4.02	3.35
Demo Board for MCP2140						MCP2140DM-TMPSNS-ND◆	45.00	—	—
Demo Board for MCP215X						MCP215XDM-ND	60.00	—	—
Development Board for IRDA						MCP212XDM-ND◆ ***NEW!***	40.00	—	—
Developer's Board for MCP2150						MCP2150DM-ND◆ ***NEW!***	45.00	—	—

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

LCD Drivers

Drives Number of Segments	Control Lines Required	Number of Characters	Cascadable	On-chip Oscillator	CMOS and TTL Compatible Inputs	Electrostatic Discharge Protection on all Pins	Package	Digi-Key Part No.	Price Each 1	10	25
32	3	16	Yes	Yes	Yes	Yes	44-PLCC	AY0438/L-ND	5.66	4.72	4.33
	3	16	Yes	Yes	Yes	Yes	40-DIP	AY0438/P-ND	4.00	3.33	3.06
	3	16	Yes	Yes	Yes	Yes	44-PLCC	AY0438-I/L-ND	5.95	4.96	4.55
	3	16	Yes	Yes	Yes	Yes	40-DIP	AY0438-I/P-ND	4.20	3.50	3.21

LIN Transceivers

Description	Vreg Output Voltage (V)	Vreg Output Current (mA)	Vcc Range (V)	Maximum Baud Rate (KBaud)	LIN Specification Supported	Package	Digi-Key Part No.	Price Each 1	10	25
LIN Transceiver with Integrated Vreg	4.75 ~ 5.25	50	6.0 ~ 18	20	Revision 1.2	8-DIP	MCP201-I/P-ND	1.85	1.54	1.28
	4.75 ~ 5.25	50	6.0 ~ 18	20	Revision 1.2	8-SOIC	MCP201-I/SN-ND	1.85	1.54	1.28
	4.85 ~ 5.15	50	6.0 ~ 18	20	Revision 1.3, 2.0, 2.1 and SAE J2602	8-SOIC	MCP2021-330E/SN-ND	1.38	1.26	1.05
	4.85 ~ 5.15	50	6.0 ~ 18	20	Revision 1.3, 2.0, 2.1 and SAE J2602	8-SOIC	MCP2021-500E/SN-ND	1.38	1.26	1.05
	4.85 ~ 5.15	50	6.0 ~ 18	20	Revision 1.3, 2.0, 2.1 and SAE J2602	14-SOIC	MCP2022-330E/SL-ND	1.56	1.43	1.19
	4.85 ~ 5.15	50	6.0 ~ 18	20	Revision 1.3, 2.0, 2.1 and SAE J2602	14-SOIC	MCP2022-500E/SL-ND	1.52	1.40	1.16
LIN Transceiver without Integrated Vreg	—	—	6.0 ~ 27	20	Revision 1.3, 2.0, 2.1 and SAE J2602	8-DFN	MCP2003-E/MD-ND ***NEW!***	1.02	.93	.77
	—	—	6.0 ~ 27	20	Revision 1.3, 2.0, 2.1 and SAE J2602	8-DIP	MCP2003-E/P-ND ***NEW!***	.96	.88	.73
	—	—	6.0 ~ 27	20	Revision 1.3, 2.0, 2.1 and SAE J2602	8-SOIC	MCP2003-E/SN-ND ***NEW!***	.96	.88	.73

Controller Area Network (CAN)

Version Supported	Operating Voltage (V)	Temperature Range	Tx Buffers	Rx Buffers	Filters	Masks	Interrupt Output	Package	Digi-Key Part No.	Price Each 1	10	25
2.0B Active	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-DIP	MCP25020-I/P-ND◆	3.06	2.55	2.12
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-SOIC	MCP25020-I/SL-ND◆	3.06	2.55	2.12
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-SOIC	MCP25025-I/SL-ND◆	3.48	2.90	2.42
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-DIP	MCP25050-I/P-ND◆	4.07	3.39	2.82
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-SOIC	MCP25050-I/SL-ND◆	4.07	3.39	2.82
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-DIP	MCP25055-I/P-ND◆	4.78	3.98	3.31
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-SOIC	MCP25055-I/SL-ND◆	4.78	3.98	3.31
	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-DIP	MCP2510-E/P-ND◆	4.73	3.94	3.29
	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-SOIC	MCP2510-E/SO-ND◆	4.73	3.94	3.29
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	18-DIP	MCP2510-I/P-ND◆	3.73	3.11	2.59
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	18-SOIC	MCP2510-I/SO-ND◆	3.73	3.11	2.59
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	20-TSSOP	MCP2510-I/ST-ND◆	4.31	3.59	2.99
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	18-DIP	MCP2515-I/P-ND◆	1.98	1.82	1.51
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	18-SOIC	MCP2515-I/SO-ND◆	1.98	1.82	1.51
	2.7 ~ 5.5	-40°C ~ 85°C	3	2	6	2	1	20-TSSOP	MCP2515-I/ST-ND◆	2.16	1.99	1.66
—	4.5 ~ 5.5	-40°C ~ 85°C	—	—	—	—	—	8-DIP	MCP2551-I/P-ND◆	1.12	1.02	.85
	4.5 ~ 5.5	-40°C ~ 85°C	—	—	—	—	—	8-SOIC	MCP2551-I/SN-ND◆	1.12	1.02	.85
	4.5 ~ 5.5	-40°C ~ 85°C	—	—	—	—	—	8-SOIC	MCP2551T-I/SNTR-ND◆‡		2574.01/3,300	
MCP250XX CAN I/O Expander Development Kit									DV250501-ND◆	165.00	—	—
MCP2510CAN Developer's Kit									DV251001-ND◆	239.99	—	—
Bus Monitor Demo Board for MCP2515									MCP2515DM-BM-ND◆	55.00	—	—
Demo Board for MCP2515									MCP2515DM-PCTL-ND	40.00	—	—
PICtail™ Plus Daughter Board for MCP2515									MCP2515DM-PTPLS-ND◆	40.00	—	—

◆ ***RoHS Compliant*** ‡ Tape and Reel

UHF ASK/FSK/FM Receiver

Description	Voltage Range	Frequency	Package	Digi-Key Part No.	Price Each 1	10	25
UHF ASK/FSK/FM Receiver	2.5 ~ 5.5V	300 ~ 450MHz	32-LQFP	RFRXD0420-I/LQ-ND	4.38	2.89	2.84
	2.5 ~ 5.5V	800 ~ 930MHz	32-LQFP	RFRXD0920-I/LQ-ND	4.38	2.89	2.84

NEW! Resistive Touch Screen Controllers

Description	Communication Type	Supply Voltage (V)	Package	Digi-Key Part No.	Price Each 1	10	25
AR1000 Series Resistive Touch Screen Controller	UART	3.3 ~ 5.0	20-QFN	AR1010-I/ML-ND	2.44	1.92	1.76
	UART	3.3 ~ 5.0	20-SOIC	AR1010-I/SO-ND	2.32	1.82	1.67
	UART	3.3 ~ 5.0	20-SSOP	AR1010-I/SS-ND	2.12	1.67	1.53
	I2C™ and SPI™	3.3 ~ 5.0	20-QFN	AR1020-I/ML-ND	2.44	1.92	1.76
	I2C and SPI	3.3 ~ 5.0	20-SOIC	AR1020-I/SO-ND	2.32	1.82	1.67
	I2C and SPI	3.3 ~ 5.0	20-SSOP	AR1020-I/SS-ND	2.12	1.67	1.53
AR1000 Touch Screen Development Kit, 7", 4-Wire				DV102011-ND	99.99	—	—

ARM® Cortex™ -M3 Microcontrollers

Flash (KB)	SRAM (KB)	GPIOs†	Timers‡	ADC		UARTs	SSI	I2C	Analog Compar-ators	PWM§		QEI	Package	Speed (Clock Frequency in MHz)	Digi-Key Part No.	Price Each			Texas Instruments Part No.
				Sample Per Second	No. of 10-Bit Channels					PWM Pins	CCP Pins					1	25	100	
Low Pin Count Real-Time MCUs																			
8	2	2 ~ 18	2	—	—	1	1	1	2	—	—	—	48-VQFN	20	296-25513-ND ***NEW!***	5.74	4.62	4.21	LM3S101-IGZ20-C2
	2	0 ~ 18	2	—	—	1	1	1	1	—	—	—	48-VQFN	20	296-25514-ND ***NEW!***	5.74	4.62	4.21	LM3S102-IGZ20-C2
16	2	12 ~ 33	2	250K	3	1	1	1	2	6	2	—	48-VQFN	20	296-25516-ND ***NEW!***	6.16	4.95	4.51	LM3S301-IGZ20-C2
	2	12 ~ 33	2	250K	3	1	1	—	2	2	2	—	48-LQFP	20	726-1002-ND	6.16	4.95	4.51	LM3S301-IQN20
	2	12 ~ 33	4	250K	3	1	1	—	2	2	2	—	48-LQFP	20	296-24904-ND ***NEW!***	6.16	4.95	4.51	LM3S301-IQN20-C2
	4	8 ~ 36	3	—	—	2	1	1	3	6	6	—	48-VQFN	25	296-25515-5-ND ***NEW!***	5.18	4.17	3.80	LM3S300-IGZ25-C2
	4	8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	25	726-1088-ND	5.18	4.17	3.80	LM3S300-IQN25-C2
	4	5 ~ 28	3	500K	8	2	1	1	1	6	—	—	48-VQFN	25	296-25517-ND ***NEW!***	5.18	4.17	3.80	LM3S308-IGZ25-C2
	4	5 ~ 28	5	500K	8	2	1	1	1	—	6	—	48-LQFP	25	296-24905-ND ***NEW!***	5.18	4.17	3.80	LM3S308-IQN25-C2
	4	3 ~ 36	3	—	—	2	1	—	3	6	—	—	48-VQFN	25	296-25518-5-ND ***NEW!***	6.16	4.95	4.51	LM3S310-IGZ25-C2
	4	7 ~ 32	3	250K	4	2	1	—	1	6	6	—	48-VQFN	25	296-25519-5-ND ***NEW!***	6.16	4.95	4.51	LM3S315-IGZ25-C2
	4	3 ~ 32	3	250K	4	2	1	1	1	6	6	—	48-VQFN	25	296-25520-5-ND ***NEW!***	6.16	4.95	4.51	LM3S316-IGZ25-C2
	4	3 ~ 30	3	250K	6	1	1	—	1	6	6	—	48-VQFN	25	296-25521-5-ND ***NEW!***	6.16	4.95	4.51	LM3S317-IGZ25-C2
	4	7 ~ 28	3	500K	8	2	1	1	—	6	—	—	48-VQFN	25	296-25522-5-ND ***NEW!***	5.18	4.17	3.80	LM3S328-IGZ25-C2
32	8	8 ~ 36	3	—	—	2	1	1	3	6	—	1	48-VQFN	50	296-25523-5-ND ***NEW!***	5.60	4.50	4.10	LM3S600-IGZ50-C2
	8	8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	50	726-1090-ND	5.60	4.50	4.10	LM3S600-IQN50
	8	8 ~ 36	5	—	—	2	1	1	3	—	6	—	48-LQFP	50	296-24909-ND ***NEW!***	5.60	4.50	4.10	LM3S600-IQN50-C2
	8	0 ~ 36	3	—	—	2	1	1	3	6	6	1	48-VQFN	50	296-25524-5-ND ***NEW!***	6.58	5.29	4.82	LM3S601-IGZ50-C2
	8	0 ~ 36	3	—	—	2	1	1	3	6	6	1	48-LQFP	50	726-1008-ND	6.58	5.29	4.82	LM3S601-IQN50-C2
	8	5 ~ 28	3	500K	8	2	1	1	1	6	6	1	48-VQFN	50	296-25525-5-ND ***NEW!***	5.60	4.50	4.10	LM3S608-IGZ50-C2
	8	5 ~ 28	3	500K	8	2	1	1	1	—	6	—	48-LQFP	50	726-1091-ND	5.60	4.50	4.10	LM3S608-IQN50
	8	5 ~ 28	5	500K	8	2	1	1	1	—	6	—	48-LQFP	50	296-24910-ND ***NEW!***	5.60	4.50	4.10	LM3S608-IQN50-C2
	8	6 ~ 34	3	500K	2	2	1	1	—	6	6	1	48-VQFN	50	296-25526-5-ND ***NEW!***	6.58	5.29	4.82	LM3S610-IGZ50-C2
	8	4 ~ 32	3	500K	4	2	1	1	—	6	6	1	48-VQFN	50	296-25527-5-ND ***NEW!***	6.58	5.29	4.82	LM3S611-IGZ50-C2
	8	7 ~ 34	3	500K	2	2	1	1	1	6	6	1	48-VQFN	50	296-25528-5-ND ***NEW!***	6.58	5.29	4.82	LM3S612-IGZ50-C2
	8	3 ~ 32	3	500K	4	2	1	1	1	6	6	1	48-VQFN	50	296-25529-5-ND ***NEW!***	6.58	5.29	4.82	LM3S613-IGZ50-C2
	8	3 ~ 32	3	500K	4	2	1	1	1	6	6	1	48-LQFP	50	726-1012-ND ***NEW!***	6.58	5.29	4.82	LM3S613-IQN50-C2
	8	0 ~ 34	3	500K	2	2	1	1	3	6	6	1	48-VQFN	50	296-25530-5-ND ***NEW!***	6.58	5.29	4.82	LM3S615-IGZ50-C2
	8	1 ~ 30	3	500K	6	2	1	1	1	6	6	1	48-VQFN	50	296-25531-5-ND ***NEW!***	6.58	5.29	4.82	LM3S617-IGZ50-C2
	8	0 ~ 30	3	500K	6	2	1	1	1	6	4	1	48-VQFN	50	296-25551-ND ***NEW!***	6.58	5.29	4.82	LM3S618-IGZ50-C2
	8	0 ~ 30	5	500K	6	2	1	—	1	6	4	1	48-LQFP	50	296-24911-ND ***NEW!***	6.58	5.29	4.82	LM3S618-IQN50-C2
	8	1 ~ 30	3	500K	6	2	1	—	1	6	4	1	48-LQFP	50	726-1015-ND	6.64	5.34	4.86	LM3S618-IQN50
	8	9 ~ 28	3	1M	8	2	1	1	—	6	2	1	48-VQFN	50	296-25552-ND ***NEW!***	5.60	4.50	4.10	LM3S628-IGZ50-C2
64	8	8 ~ 36	3	—	—	2	1	1	3	6	—	1	48-VQFN	50	296-25532-5-ND ***NEW!***	6.44	5.18	4.72	LM3S800-IGZ50-C2
	8	8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	50	726-1092-ND	6.44	5.18	4.72	LM3S800-IQN50
	8	8 ~ 36	5	—	—	2	1	1	3	—	6	—	48-LQFP	50	296-24917-ND ***NEW!***	6.44	5.18	4.72	LM3S800-IQN50-C2
	8	0 ~ 36	3	—	—	2	1	1	3	6	6	1	48-VQFN	50	296-25533-5-ND ***NEW!***	6.88	5.64	5.09	LM3S801-IGZ50-C2
	8	5 ~ 28	3	500K	8	2	1	1	1	6	—	1	48-VQFN	50	296-25534-5-ND ***NEW!***	6.44	5.18	4.72	LM3S808-IGZ50-C2
	8	5 ~ 28	3	500K	8	2	1	1	1	—	6	—	48-LQFP	50	726-1093-ND	6.44	5.18	4.72	LM3S808-IQN50-C2
	8	1 ~ 32	3	500K	4	2	1	1	1	6	6	1	48-VQFN	50	296-25535-5-ND ***NEW!***	6.88	5.64	5.09	LM3S811-IGZ50-C2
	8	1 ~ 32	5	500K	4	2	1	1	1	6	6	—	48-LQFP	50	296-24918-ND ***NEW!***	6.88	5.64	5.09	LM3S811-IQN50-C2
	8	7 ~ 34	3	250K	2	2	1	1	1	6	6	1	48-VQFN	50	296-25536-5-ND ***NEW!***	6.88	5.64	5.09	LM3S812-IGZ50-C2
	8	0 ~ 34	3	500K	2	2	1	1	3	6	6	1	48-VQFN	50	296-25537-5-ND ***NEW!***	6.88	5.64	5.09	LM3S815-IGZ50-C2
	8	1 ~ 30	3	1M	6	2	1	—	1	6	6	1	48-VQFN	50	296-25538-5-ND ***NEW!***	6.88	5.64	5.09	LM3S817-IGZ50-C2
	8	0 ~ 30	3	1M	6	2	1	—	1	6	6	—	48-LQFP	50	726-1021-ND	6.88	5.64	5.09	LM3S817-IQN50-C2
	8	0 ~ 30	3	1M	6	2	1	—	1	8	4	1	48-VQFN	50	296-25539-5-ND ***NEW!***	6.88	5.64	5.09	LM3S818-IGZ50-C2
	8	0 ~ 30	3	1M	6	2	1	—	1	6	4	1	48-LQFP	50	726-1022-ND	6.88	5.64	5.09	LM3S818-IQN50
	8	0 ~ 30	5	1M	6	2	1	—	1	6	4	1	48-LQFP	50	296-24919-ND ***NEW!***	6.88	5.64	5.09	LM3S818-IQN50-C2
	8	7 ~ 28	3	1M	8	2	1	1	—	6	6	—	48-VQFN	50	296-25540-5-ND ***NEW!***	6.44	5.18	4.72	LM3S828-IGZ50-C2
High Pin Count Real-Time MCUs																			
64	16	20 ~ 41	3	—	—	3	2	2	2	8	2	2	108-BGA	25	296-25665-ND ***NEW!***	6.88	5.64	5.09	LM3S1110-IBZ25-A2
	16	20 ~ 41	3	—	—	2	1	1	2	—	2	—	100-LQFP	25	726-1094-ND	6.88	5.64	5.09	LM3S1110-IQC25-A2
	16	9 ~ 44	4	250K	2	3	2	2	1	8	8	2	108-BGA	50	296-25666-ND ***NEW!***	7.88	6.46	5.83	LM3S1133-IBZ50-A2
	16	9 ~ 44	4	250K	2	3	2	1	1	2	8	2	100-LQFP	50	726-1095-ND	7.88	6.46	5.83	LM3S1133-IQC50-A2
	16	9 ~ 46	4	1M	8	3	2	2	3	8	6	2	108-BGA	50	296-25667-ND ***NEW!***	7.13	5.85	5.28	LM3S1138-IBZ50-A2
	16	9 ~ 46	6	1M	8	3	2	2	3	—	6	—	100-LQFP	50	296-24900-ND ***NEW!***	7.13	5.85	5.28	LM3S1138-IQC50-A2
	16	7 ~ 52	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1097-ND	7.88	6.46	5.83	LM3S1150-IQC50-A2
	16	7 ~ 52	4	—	—	3	2	2	3	8	6	2	108-BGA	50	296-25668-ND ***NEW!***	7.88	6.46	5.83	LM3S1150-IBZ50-A2
	16	4 ~ 46	4	500K	2	3	2	2	3	8	6	2	108-BGA	50	296-25669-ND ***NEW!***	7.88	6.46	5.83	LM3S1162-IBZ50-A2
	16	4 ~ 46	4	500K	2	3	2	1	3	6	6	—	100-LQPF	50	726-1098-ND	7.88	6.46	5.83	LM3S1162-IQC50-A2
	16	4 ~ 43	4	500K	4	3	2	2	1	8	8	2	108-BGA	50	296-25670-ND ***NEW!***	7.88	6.46	5.83	LM3S1165-IBZ50-A2
	16	4 ~ 43	4	500K	4	3	2	1	1	6	8	—	100-LQFP	50	726-1099-ND	7.88	6.46	5.83	LM3S1165-IQC50-A2
96	16	29 ~ 57	4	250K	3	3	2	2	3	8	8	2	108-BGA	50	296-25671-ND ***NEW!***	8.13	6.67	6.02	LM3S1332-IBZ50-A2
	16	29 ~ 57	4	250K	3	2	1	—	3	—	8	—	100-LQFP	50	726-1100-ND	8.13	6.67	6.02	LM3S1332-IQC50-A2
	32	21 ~ 46	3	500K	2	3	2	2	1	8	4	2	108-BGA	50	296-25672-ND ***NEW!***	9.50	7.79	7.03	LM3S1435-IBZ50-A2
	32	21 ~ 46	3	500K	2	2	1	1	1	2	4	—	100-LQFP	50	726-1101-ND	9.50	7.79	7.03	LM3S1435-IQC50-A2
	32	14 ~ 52	3	500K	4	2	2	1	1	6	6	1	108-BGA	50	726-1134-ND	9.50	7.79	7.03	LM3S1439-IBZ50-A2
	32	14 ~ 52	3	500K	4	2	2	1	1	6	6	1	100-LQFP	50	726-1102-ND	9.50	7.79	7.03	LM3S1439-IQC50-A2
	64	15 ~ 58	4	250K	2	3	2	2	3	8	8	2	108-BGA	25	296-25673-ND ***NEW!***	8.75	7.18	6.48	LM3S1512-IBZ25-A2
	64	15 ~ 58	4	250K	2	3	2	2	3	—	8	1	100-LQFP	25	726-1103-ND	8.75	7.18	6.48	LM3S1512-IQC25-A2
	64	9 ~ 43	4	500K	8	3	2	2	—	—	8	1	100-LQFP	50	726-1104-ND	8.75	7.18	6.48	LM3S1538-IQC50-A2
	64	9 ~ 43	4	500K	8	3	2	2	—	8	8	2	108-BGA	50	296-25674-ND ***NEW!***	8.75	7.18	6.48	LM3S1538-IBZ50-A2
128	32	23 ~ 60	4	—	—	3	2	2	2	8	8	2	108-BGA	50	296-25675-ND ***NEW!***	8.38	6.87	6.20	LM3S1601-IBZ50-A2
	32	23 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1135-ND	8.38	6.87	6.20	LM3S1601-IQC50-A2
	32	0 ~ 33	6	500K	8	3	2	2	—	8	6	2	64-LQFP	50	296-25363-ND ***NEW!***	7.38	6.05	5.46	LM3S1607-IQR50-A0
	32	17 ~ 52	4	500K	8	3	2	2	2	8	8	2	108-BGA	50	296-25676-ND ***NEW!***	8.38	6.87	6.20	LM3S1608-IBZ50-A2
	32	17 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1136-ND	8.38	6.87	6.20	LM3S1608-IQC50-A2
	32	11 ~ 52	3	—	—	3	2	2	3	8	4	2	108-BGA	25	296-25677-ND ***NEW!***	9.63	7.90	7.13	LM3S1620-IBZ25-A2
	32	11 ~ 52	3	—	—	2	2	1	3	6	4	1	100-LQFP	25	726-1105-ND	9.63	7.90	7.13	LM3S1620-IQC25-A2
	32	0 ~ 33	6	500K	6	3	2	2	1	8	4	2	64-LQFP	50	296-25364-ND ***NEW!***	7.63	6.26	5.65	LM3S1625-IQR50-A0
	32	0 ~ 33	6	500K	6	3	2	2	—	8	4	2	64-LQFP	50	296-25658-ND ***NEW!***	7.63	6.26	5.65	LM3S1626-IQR50-A0
	32	0 ~ 33	6	500K	4	3	2	2	—	8	4	2	64-LQFP	50	296-25365-ND ***NEW!***	7.88	6.46	5.83	LM3S1627-IQR50-A0
	32	12 ~ 56	4	500K	4	3	2	2	2	8	8	2	108-BGA	50	296-25678-ND ***NEW!***	9.63	7.90	7.13	LM3S1635-IBZ50-A2
	32	12 ~ 56	4	500K	4	3	2	2	2	6	8	—	100-LQFP	50	726-1106-ND	9.63	7.90	7.13	LM3S1635-IQC50-A2
	32	7 ~ 43	4	1M	4	3	2	2	1	8	6	2	108-BGA	50	296-25679-ND ***NEW!***	9.63	7.90	7.13	LM3S1637-IBZ50-A2
	32	7 ~ 43	4	1M	4	3	1	1	1	6	6	1	100-LQFP	50	726-1107-ND	9.63	7.90	7.13	LM3S1637-IQC50-A2
	64	21 ~ 56	3	500K	4	3	2	2	1	8	6	2	108-BGA	50	296-25680-ND ***NEW!***	10.25	8.41	7.59	LM3S1751-IBZ50-A2
	64	21 ~ 56	3	500K	4	3	2	1	1	4	6	—	100-LQFP	50	726-1108-ND	10.25	8.41	7.59	LM3S1751-IQC50
	64	21 ~ 56	5	500K	4	3	2	1	1	4	6	—	100-LQFP	50	296-24901-ND ***NEW!***	10.25	8.41	7.59	LM3S1751-IQC50-A2
	64	1 ~ 33	—	1M	6	3	2	2	—	8	2	2	64-LQFP	50	296-25366-ND ***NEW!***	10.00	8.20	7.40	LM3S1776-IQR50-A0
256	32	17 ~ 56	3	—	—	3	2	2	3	8	6	2	108-BGA	50	296-25681-ND ***NEW!***	11.38	9.33	8.42	LM3S1850-IBZ50-A2
	32	17 ~ 56	3	—	—	2	1	1	3	6	6	1	100-LQFP	50	726-1109-ND	11.38	9.33	8.42	LM3S1850-IQC50-A2
	64	23 ~ 60	4	—	—	3	2	2	2	—	8	—	108-BGA	50	726-1137-ND	11.00	9.02	8.14	LM3S1911-IBZ50-A2
	64	23 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1138-ND	11.00	9.02	8.14	LM3S1911-IQC50-A2
	64	17 ~ 52	4	500K	8	2	2	2	2	—	8	—	108-BGA	50	726-1139-ND	11.00	9.02	8.14	LM3S1918-IBZ50-A2
	64	17 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1140-ND	11.00	9.02	8.14	LM3S1918-IQC50-A2
	64	27 ~ 56	3	1M	4	3	2	2	1	8	4	2	108-BGA	50	296-25682-ND ***NEW!***	11.50	9.43	8.51	LM3S1937-IBZ50-A2
	64	27 ~ 56	3	1M	4	2	1	1	1	6	4	—	100-LQFP	50	726-1110-ND	11.50	9.43	8.51	LM3S1937-IQC50-A2
	64	21 ~ 52	4	1M	8	3	2	2	—	—	8	—	108-BGA	50	726-1141-ND	11.00	9.02	8.14	LM3S1958-IBZ50-A2
	64	21 ~ 52	4	1M	8	3	2	2	—	—	8	—	100-LQFP	50	726-1111-ND	11.00	9.02	8.14	LM3S1958-IQC50-A2
	64	21 ~ 52	6	1M	8	3	2	2	—	—	8	—	100-LQFP	50	296-24902-ND ***NEW!***	11.00	9.02	8.14	LM3S1958-IQC50-A2

† Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used; See data sheet for details ‡ One timer available as RTC § PWM motion control functionality can be achieved through dedicated motion control hardware (using the PWM pins) or through the motion control features of the general-purpose timers (using CCP pins); See data sheet for details

(Continued)

ARM® Cortex™ -M3 Microcontrollers *(Cont.)*

Flash (KB)	SRAM (KB)	GPIOs†	Timers‡	ADC		UARTs	SSI	I2C	Analog Compar-ators	PWM§		QEI	Package	Speed (Clock Frequency in MHz)	Digi-Key Part No.	Price Each			Texas Instruments Part No.
				Sample Per Second	No. of 10-Bit Channels					PWM Pins	CCP Pins					1	25	100	
256	64	7 ~ 60	4	—	—	3	2	2	3	8	8	2	108-BGA	50	296-25683-ND **NEW!**	11.50	9.43	8.51	LM3S1960-IBZ50-A2
	64	7 ~ 60	4	—	—	3	2	2	3	6	8	2	100-LQFP	50	726-1112-ND	11.50	9.43	8.51	LM3S1960-IQC50-A2
	64	5 ~ 52	4	1M	8	3	2	2	3	6	4	2	100-LQFP	50	726-1113-ND	11.50	9.43	8.51	LM3S1968-IQC50-A2
	64	5 ~ 52	4	1M	8	3	2	2	3	6	4	2	108-BGA	50	726-1142-ND	11.50	9.43	8.51	LM3S1968-IBZ50-A2
Ethernet Connected MCUs																			
64	16	8 ~ 35	3	—	—	3	2	2	3	6	4	2	108-BGA	25	296-25696-ND **NEW!**	11.75	9.64	8.70	LM3S6110-IBZ25-A2
	16	10 ~ 30	3	—	—	3	2	2	1	6	4	2	108-BGA	25	296-25695-ND **NEW!**	11.50	9.43	8.51	LM3S6100-IBZ25-A2
	16	10 ~ 30	3	—	—	1	1	—	1	—	4	—	100-LQFP	25	726-1070-ND	11.50	9.43	8.51	LM3S6100-IQC25-A2
96	32	23 ~ 46	3	—	—	3	2	2	2	6	4	2	108-BGA	25	296-25697-ND **NEW!**	11.75	9.64	8.70	LM3S6420-IBZ25-A2
	32	12 ~ 34	3	250K	2	3	2	2	2	6	4	2	108-BGA	25	296-25698-ND **NEW!**	12.13	9.95	8.98	LM3S6422-IBZ25-A2
	32	14 ~ 43	3	250K	3	2	1	1	2	2	4	—	108-BGA	50	726-1155-ND	11.55	9.72	8.93	LM3S6432-IBZ50-A2
	32	14 ~ 43	5	250K	3	2	1	1	2	1	4	—	100-LQFP	50	296-24912-ND **NEW!**	11.55	9.72	8.93	LM3S6432-IQC50-A2
	64	6 ~ 41	4	500K	4	3	2	2	2	6	6	2	108-BGA	50	296-25699-ND **NEW!**	11.88	9.99	9.18	LM3S6537-IBZ50-A2
	64	6 ~ 41	4	500K	4	2	1	1	2	6	6	—	100-LQFP	50	726-1114-ND	11.88	9.99	9.18	LM3S6537-IQC50-A2
128	32	5 ~ 46	4	—	—	3	2	2	3	6	6	2	108-BGA	25	296-25700-ND **NEW!**	12.21	10.27	9.44	LM3S6610-IBZ25-A2
	32	10 ~ 46	4	—	—	3	2	2	2	—	6	—	108-BGA	50	726-1156-ND	11.66	9.81	9.01	LM3S6611-IBZ50-A2
	32	10 ~ 46	4	—	—	3	2	2	2	—	6	—	100-LQFP	50	726-1157-ND	11.66	9.81	9.01	LM3S6611-IQC50-A2
	32	5 ~ 38	4	500K	8	3	2	2	2	8	6	2	108-BGA	50	296-25701-ND **NEW!**	12.21	10.27	9.44	LM3S6618-IBZ50-A2
	32	5 ~ 38	4	500K	8	2	2	2	2	—	6	—	100-LQFP	50	726-1158-ND	12.21	10.27	9.44	LM3S6618-IQC50-A2
	32	15 ~ 41	3	500K	3	3	2	2	1	6	6	2	108-BGA	50	296-25702-ND **NEW!**	12.21	10.27	9.44	LM3S6633-IBZ50-A2
	32	11 ~ 41	4	1M	4	2	1	1	3	—	6	—	108-BGA	50	726-1159-ND	12.43	10.46	9.61	LM3S6637-IBZ50-A2
	64	23 ~ 46	3	—	—	1	1	—	2	—	4	—	108-BGA	50	726-1160-ND	12.65	10.64	9.78	LM3S6730-IBZ50-A2
	64	5 ~ 41	4	500K	4	3	2	2	2	6	4	2	108-BGA	50	296-25703-ND **NEW!**	12.65	10.64	9.78	LM3S6753-IBZ50-A2
	64	5 ~ 41	4	500K	4	2	1	1	2	6	4	1	100-LQFP	50	726-1115-ND	12.65	10.64	9.78	LM3S6753-IQC50-A2
256	64	10 ~ 46	4	—	—	3	2	2	2	—	6	—	108-BGA	50	726-1161-ND	12.76	10.73	9.86	LM3S6911-IBZ50-A2
	64	10 ~ 46	4	—	—	3	2	2	2	—	6	—	100-LQFP	50	726-1162-ND	12.76	10.73	9.86	LM3S6911-IQC50
	64	10 ~ 46	6	—	—	3	2	2	2	—	6	—	100-LQFP	50	296-24913-ND **NEW!**	12.76	10.73	9.86	LM3S6911-IQC50-A2
	64	5 ~ 38	4	500K	8	2	2	2	2	—	6	—	108-BGA	50	726-1163-ND	12.98	10.92	10.03	LM3S6918-IBZ50-A2
	64	5 ~ 38	4	500K	8	2	2	2	2	—	6	—	100-LQFP	50	726-1164-ND	12.98	10.92	10.03	LM3S6918-IQC50
	64	5 ~ 38	6	500K	8	2	2	2	2	—	6	—	100-LQFP	50	296-24914-ND **NEW!**	12.76	10.73	9.86	LM3S6918-IQC50-A2
	64	7 ~ 38	4	1M	8	3	1	1	3	—	6	—	108-BGA	50	726-1165-ND	13.86	11.66	10.71	LM3S6938-IBZ50-A2
	64	7 ~ 38	4	1M	8	3	1	2	3	6	6	—	100-LQFP	50	296-26107-ND **NEW!**	13.86	11.66	10.71	LM3S6938-IQC50-A2
	64	1 ~ 46	4	—	—	3	2	2	3	6	6	2	108-BGA	50	296-25704-ND **NEW!**	13.86	11.66	10.71	LM3S6950-IBZ50-A2
	64	1 ~ 46	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1116-ND	13.86	11.66	10.71	LM3S6950-IQC50
	64	1 ~ 46	6	—	—	3	2	1	3	6	6	1	100-LQFP	50	296-24915-ND **NEW!**	13.86	11.66	10.71	LM3S6950-IQC50-A2
	64	6 ~ 43	3	500K	3	3	2	2	3	6	4	2	108-BGA	50	296-25705-ND **NEW!**	13.86	11.66	10.71	LM3S6952-IBZ50-A2
	64	0 ~ 42	4	1M	4	3	1	2	2	6	4	2	108-BGA	50	726-1166-ND	15.29	12.86	11.82	LM3S6965-IBZ50-A2
	64	0 ~ 42	4	1M	4	3	1	2	2	6	4	2	100-LQFP	50	726-1081-ND	15.29	12.86	11.82	LM3S6965-IQC50
	64	0 ~ 42	6	1M	4	3	1	2	2	6	4	2	100-LQFP	50	296-24916-ND **NEW!**	15.29	12.86	11.82	LM3S6965-IQC50-A2
CAN Connected MCUs																			
64	16	11 ~ 40	3	—	—	3	2	2	3	8	4	2	108-BGA	25	296-25684-ND **NEW!**	8.25	6.77	6.11	LM3S2110-IBZ25-A2
	16	26 ~ 56	3	250K	4	3	2	2	3	8	6	2	108-BGA	25	296-25685-ND **NEW!**	8.25	6.77	6.11	LM3S2139-IBZ25-A2
	32	0 ~ 33	3	1M	6	1	1	1	—	8	1	—	64-LQPF	50	726-1178-ND	8.25	6.77	6.11	LM3S2678-IQR50-A0
96	32	37 ~ 60	3	250K	3	3	2	2	2	8	4	2	108-BGA	25	296-25686-ND **NEW!**	9.13	7.49	6.76	LM3S2410-IBZ25-A2
	32	20 ~ 49	3	250K	3	3	2	2	2	8	4	2	108-BGA	25	296-25687-ND **NEW!**	9.63	7.90	7.13	LM3S2412-IBZ25-A2
	32	5 ~ 34	3	250K	3	3	2	2	2	8	4	2	108-BGA	50	296-25688-ND **NEW!**	9.63	7.90	7.13	LM3S2432-IBZ50-A2
	64	11 ~ 48	4	250K	3	3	2	2	3	8	6	2	108-BGA	50	296-25689-ND **NEW!**	10.25	8.41	7.59	LM3S2533-IBZ50-A2
	64	10 ~ 48	4	250K	3	2	1	1	3	6	6	—	100-LQFP	50	726-1060-ND	10.25	8.41	7.59	LM3S2533-IQC50-A2
128	16	1 ~ 33	—	1M	6	3	2	2	2	8	—	2	64-LQFP	50	296-25367-ND **NEW!**	8.63	7.08	6.39	LM3S2616-IQR50-A0
	32	21 ~ 60	4	—	—	3	2	2	2	8	8	2	108-BGA	50	296-25690-ND **NEW!**	9.50	7.79	7.03	LM3S2601-IBZ50-A2
	32	21 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1143-ND	9.50	7.79	7.03	LM3S2601-IQC50-A2
	32	15 ~ 52	4	500K	8	3	2	2	2	8	8	2	108-BGA	50	296-25691-ND **NEW!**	9.50	7.79	7.03	LM3S2608-IBZ50-A2
	32	15 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1144-ND	9.50	7.79	7.03	LM3S2608-IQC50-A2
	32	12 ~ 52	4	—	—	1	1	1	3	4	6	1	108-BGA	25	726-1145-ND	9.63	7.90	7.13	LM3S2620-IBZ25-A2
	32	15 ~ 46	4	500K	4	3	2	2	3	8	6	2	108-BGA	50	296-25692-ND **NEW!**	9.63	7.90	7.13	LM3S2637-IBZ50-A2
	32	16 ~ 53	4	500K	4	3	2	2	1	8	6	2	108-BGA	50	296-25693-ND **NEW!**	9.63	7.90	7.13	LM3S2651-IBZ50-A2
	32	3 ~ 33	—	500K	4	3	2	2	3	8	2	2	64-LQFP	50	296-25368-ND **NEW!**	8.63	7.08	6.39	LM3S2671-IQR50-A0
	32	1 ~ 33	4	500K	8	1	1	—	—	4	2	1	64-LQPF	50	726-1179-ND	8.88	7.28	6.57	LM3S2678-IQR50-A0
	64	37 ~ 60	3	—	—	1	1	—	2	—	4	—	108-BGA	50	726-1146-ND	10.25	8.41	7.59	LM3S2730-IBZ50-A2
	64	37 ~ 60	3	—	—	1	1	—	2	—	4	—	100-LQFP	50	726-1064-ND	10.25	8.41	7.59	LM3S2730-IQC50-A2
	64	0 ~ 33	3	1M	6	1	1	1	—	8	1	—	64-LQPF	50	726-1180-ND	12.98	10.92	10.03	LM3S2776-IQR50-A0
	64	27 ~ 61	—	500K	8	3	2	2	—	8	2	2	100-LQFP	50	296-25372-ND **NEW!**	11.33	9.53	8.76	LM3S5747-IQC50-A0
256	64	21 ~ 60	4	—	—	3	2	2	2	—	8	—	108-BGA	50	726-1148-ND	11.63	9.54	8.61	LM3S2911-IBZ50-A2
	64	21 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1149-ND	11.63	9.54	8.61	LM3S2911-IQC50-A2
	64	15 ~ 52	4	500K	8	2	2	2	2	—	8	—	108-BGA	50	726-1150-ND	11.63	9.54	8.61	LM3S2918-IBZ50-A2
	64	15 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1151-ND	11.63	9.54	8.61	LM3S2918-IQC50-A2
	64	18 ~ 57	3	500K	3	3	1	1	3	4	4	1	108-BGA	50	726-1152-ND	11.63	9.54	8.61	LM3S2939-IBZ50-A2
	64	12 ~ 52	4	1M	8	3	2	1	3	—	8	—	108-BGA	50	726-1153-ND	11.63	9.54	8.61	LM3S2948-IBZ50-A2
	64	12 ~ 52	4	1M	8	3	2	1	3	—	8	—	100-LQFP	50	726-1067-ND	11.63	9.54	8.61	LM3S2948-IQC50-A2
	64	10 ~ 60	4	—	—	3	2	2	3	8	6	2	108-BGA	50	296-25694-ND **NEW!**	11.63	9.54	8.61	LM3S2950-IBZ50-A2
	64	10 ~ 60	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1068-ND	11.63	9.54	8.61	LM3S2950-IQC50-A2
	64	3 ~ 56	4	1M	4	3	2	2	3	6	6	2	108-BGA	50	726-1154-ND	11.63	9.54	8.61	LM3S2965-IBZ50-A2
	64	3 ~ 56	4	1M	4	3	2	2	3	6	6	2	100-LQFP	50	726-1069-ND	11.63	9.54	8.61	LM3S2965-IQC50
	64	3 ~ 56	6	1M	4	3	2	2	3	6	6	2	100-LQFP	50	296-24903-ND **NEW!**	11.63	9.54	8.61	LM3S2965-IQC50-A2
USB + CAN Internetworking MCUs																			
128	32	0 ~ 33	5	500K	6	3	2	2	1	8	6	2	64-LQFP	50	296-25660-ND **NEW!**	11.63	9.54	8.61	LM3S5652-IQR50-A0
	64	20 ~ 56	3	500K	4	2	1	1	1	6	6	1	108-BGA	50	726-1147-ND	10.50	8.61	7.77	LM3S2739-IBZ50-A2
	64	1 ~ 33	—	500K	6	3	2	2	—	8	5	2	64-LQFP	50	296-25370-ND **NEW!**	12.38	10.15	9.16	LM3S5732-IQR50-A0
	64	27 ~ 61	—	500K	8	3	2	2	—	8	3	2	100-LQFP	50	296-25371-ND **NEW!**	11.33	9.53	8.76	LM3S5737-IQC50-A0
	64	0 ~ 33	5	500K	6	3	2	2	1	8	6	2	64-LQFP	50	296-25662-ND **NEW!**	12.38	10.15	9.16	LM3S5752-IQR50-A0
	64	0 ~ 33	5	500K	4	3	2	2	—	8	5	2	64-LQFP	50	296-25656-ND **NEW!**	12.38	10.15	9.16	LM3S5762-IQR50-A0
USB Connected MCUs																			
128	32	0 ~ 33	6	500K	4	3	2	2	2	8	8	1	64-LQFP	50	296-25655-ND **NEW!**	11.25	9.23	8.33	LM3S3651-IQR50-A0
	32	1 ~ 33	3	500K	6	2	1	2	—	—	5	—	64-LQPF	50	726-1182-ND	11.38	9.33	8.42	LM3S5632-IQR50
	32	1 ~ 33	5	500K	6	2	—	2	—	—	5	—	64-LQFP	50	296-24907-ND **NEW!**	11.38	9.33	8.42	LM3S5632-IQR50-A0
	64	14 ~ 61	—	500K	8	3	2	2	2	8	8	1	100-LQFP	50	296-25369-ND **NEW!**	11.11	9.35	8.59	LM3S3739-IQC50-A0
	64	3 ~ 61	4	1M	8	2	2	2	2	8	8	1	100-LQPF	50	726-1181-ND	11.11	9.35	8.59	LM3S3748-IQC50
	64	3 ~ 61	6	1M	8	2	—	2	2	8	8	1	100-LQFP	50	296-24906-ND **NEW!**	11.11	9.35	8.59	LM3S3748-IQC50-A0
	64	0 ~ 61	6	1M	8	3	2	2	2	8	7	1	100-LQFP	50	296-25659-ND **NEW!**	11.11	9.35	8.59	LM3S3749-IQC50-A0
	64	12 ~ 61	6	500K	8	3	2	2	2	8	8	2	100-LQFP	50	296-25661-ND **NEW!**	11.33	9.53	8.76	LM3S5739-IQC50-A0
	64	0 ~ 61	4	1M	8	2	2	2	2	8	5	1	100-LQPF	50	726-1183-ND	11.33	9.53	8.76	LM3S5749-IQC50
	64	0 ~ 61	6	1M	8	2	—	2	2	8	5	1	100-LQFP	50	296-24908-ND **NEW!**	11.33	9.53	8.76	LM3S5749-IQC50-A0
Ethernet + CAN Internetworking MCUs																			
96	64	8 ~ 35	4	—	—	3	2	2	—	6	2	2	108-BGA	50	296-25706-ND **NEW!**	14.08	11.84	10.88	LM3S8530-IBZ50-A2
	64	8 ~ 35	4	—	—	1	2	1	—	—	2	—	100-LQFP	50	726-1117-ND	14.08	11.84	10.88	LM3S8530-IQC50-A2
	64	7 ~ 36	4	1M	8	3	2	2	3	6	4	2	108-BGA	50	296-25707-ND **NEW!**	13.64	11.47	10.54	LM3S8538-IBZ50-A2
	64	7 ~ 36	4	1M	8	2	1	1	3	—	4	—	100-LQFP	50	726-1118-ND	13.64	11.47	10.54	LM3S8538-IQC50-A2
128	32	10 ~ 31	4	—	—	2	1	1	—	—	2	—	100-LQFP	50	726-1119-ND	12.54	10.55	9.69	LM3S8630-IQC50-A2
	32	10 ~ 31	4	—	—	3	2	2	—	6	2	2	108-BGA	50	296-25708-ND **NEW!**	12.54	10.55	9.69	LM3S8630-IBZ50-A2
	64	11 ~ 32	4	—	—	3	2	2	—	6	2	2	108-BGA	50	296-25709-ND **NEW!**	13.09	11.01	10.12	LM3S8730-IBZ50-A2
	64	11 ~ 32	4	—	—	2	1	1	—	—	2	—	100-LQFP	50	726-1120-ND	13.09	11.01	10.12	LM3S8730-IQC50-A2
	64	5 ~ 35	4	500K	4	3	2	2	—	6	4	2	108-BGA	50	296-25710-ND **NEW!**	13.09	11.01	10.12	LM3S8733-IBZ50-A2

† Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used; See data sheet for details ‡ One timer available as RTC § PWM motion control functionality can be achieved through dedicated motion control hardware (using the PWM pins) or through the motion control features of the general-purpose timers (using CCP pins); See data sheet for details

(Continued)

TEXAS INSTRUMENTS ARM® Cortex™ -M3 Microcontrollers *(Cont.)*

Flash (KB)	SRAM (KB)	GPIOs†	Timers‡	ADC		UARTs	SSI	I2C	Analog Compar-ators	PWM§		QEI	Package	Speed (Clock Frequency in MHz)	Digi-Key Part No.	Price Each			Texas Instruments Part No.
				Sample Per Second	No. of 10-Bit Channels					PWM Pins	CCP Pins					1	25	100	
128	64	5 ~ 35	4	500K	4	2	1	1	3	—	4	—	100-LQFP	50	726-1121-ND	13.09	11.01	10.12	LM3S8733-IQC50-A2
	64	4 ~ 38	4	500K	8	3	2	1	1	—	6	—	100-LQFP	50	726-1122-ND	12.98	10.92	10.03	LM3S8738-IQC50-A2
	64	4 ~ 38	4	500K	8	3	2	2	1	6	6	2	108-BGA	50	296-25711-ND ***NEW!***	12.98	10.92	10.03	LM3S8738-IBZ50-A2
256	64	13 ~ 34	4	—	—	3	2	2	—	6	2	2	108-BGA	50	296-25712-ND ***NEW!***	14.30	12.03	11.05	LM3S8930-IBZ50-A2
	64	13 ~ 34	4	—	—	1	1	1	—	—	2	—	100-LQFP	50	726-1123-ND	14.30	12.03	11.05	LM3S8930-IQC50-A2
	64	6 ~ 36	4	1M	4	3	2	2	3	6	4	2	108-BGA	50	296-25713-ND ***NEW!***	14.08	11.84	10.88	LM3S8933-IBZ50-A2
	64	6 ~ 36	4	1M	4	2	1	1	3	—	4	—	100-LQFP	50	726-1124-ND	14.08	11.84	10.88	LM3S8933-IQC50-A2
	64	3 ~ 38	4	1M	8	3	2	2	3	6	6	2	108-BGA	50	296-25714-ND ***NEW!***	14.08	11.84	10.88	LM3S8938-IBZ50-A2
	64	3 ~ 38	4	1M	8	3	1	2	3	—	6	—	100-LQFP	50	726-1125-ND	15.95	13.42	12.33	LM3S8938-IQC50
	64	3 ~ 38	6	1M	8	3	1	2	3	—	6	—	100-LQFP	50	296-24920-ND ***NEW!***	14.08	11.84	10.88	LM3S8938-IQC50-A2
	64	5 ~ 42	4	500K	4	2	1	1	1	6	2	2	108-BGA	50	726-1167-ND	14.19	11.94	10.97	LM3S8962-IBZ50-A2
	64	5 ~ 42	4	500K	4	2	1	1	1	6	2	2	100-LQFP	50	726-1126-ND	14.19	11.94	10.97	LM3S8962-IQC50
	64	5 ~ 42	6	500K	4	2	1	1	1	6	2	2	100-LQFP	50	296-24921-ND ***NEW!***	14.19	11.94	10.97	LM3S8962-IQC50-A2
	64	17 ~ 46	4	—	—	2	2	1	—	—	2	—	108-BGA	50	726-1168-ND	15.07	12.68	11.65	LM3S8970-IBZ50-A2
	64	17 ~ 46	4	—	—	2	2	1	—	—	2	—	100-LQFP	50	726-1127-ND	15.07	12.68	11.65	LM3S8970-IQC50
	64	17 ~ 46	6	—	—	2	2	1	—	—	2	—	100-LQFP	50	296-24922-ND ***NEW!***	15.07	12.68	11.65	LM3S8970-IQC50-A2
	64	4 ~ 38	4	1M	8	1	1	—	1	6	6	1	108-BGA	50	726-1169-ND	14.08	11.84	10.88	LM3S8971-IBZ50-A2
	64	4 ~ 38	4	1M	8	1	1	—	1	6	6	1	100-LQFP	50	726-1170-ND	14.08	11.84	10.88	LM3S8971-IQC50
	64	4 ~ 38	4	1M	8	1	1	—	1	6	6	1	100-LQFP	50	296-24923-ND ***NEW!***	14.08	11.84	10.88	LM3S8971-IQC50-A2
USB + Ethernet + CAN Internetworking MCUs																			
256	64	0 ~ 60	4	1M	2	3	2	2	2	6	8	2	100-LQFP	80	296-25345-ND ***NEW!***	16.94	14.25	13.09	LM3S9997-IQC80-C1
	96	0 ~ 60	4	1M	16	3	2	2	3	—	8	—	100-LQFP	80	296-25346-ND ***NEW!***	16.94	14.25	13.09	LM3S9B90-IQC80-C1
	96	0 ~ 65	4	1M	2	3	2	2	3	8	8	2	100-LQFP	80	296-25347-ND ***NEW!***	17.49	14.71	13.52	LM3S9B92-IQC80-C1
	96	0 ~ 65	4	1M	16	3	2	2	3	8	8	2	100-LQFP	80	296-25349-ND ***NEW!***	17.49	14.71	13.52	LM3S9B95-IQC80-C1
	96	0 ~ 65	4	1M	16	3	2	2	3	8	8	2	100-LQFP	100	296-25348-ND ***NEW!***	19.58	16.47	15.13	LM3S9B95-IQC100-C0

† Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used; See data sheet for details ‡ One timer available as RTC § PWM motion control functionality can be achieved through dedicated motion control hardware (using the PWM pins) or through the motion control features of the general-purpose timers (using CCP pins); See data sheet for details

Stellaris® Evaluation and Design Kits

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
LM3S811 Evaluation Kit; Keil™ RealView®	726-1044-ND	49.10	EKK-LM3S811
LM3S811 Evaluation Kit; IAR Systems	726-1043-ND	49.10	EKI-LM3S811
LM3S811 Evaluation Kit; CodeSourcery G++ GNU	726-1042-ND	49.10	EKC-LM3S811
LM3S811 Evaluation Kit; Code Red Technologies	726-1129-ND	49.10	EKT-LM3S811
LM3S811 Evaluation Kit with Code Composer Studio	296-25783-ND ***NEW!***	49.10	EKS-LM3S811
LM3S1968 Evaluation Kit; Keil RealView	726-1082-ND	59.15	EKK-LM3S1968
LM3S1968 Evaluation Kit; IAR Systems	726-1084-ND	59.15	EKI-LM3S1968
LM3S1968 Evaluation Kit; CodeSourcery G++ GNU	726-1083-ND	59.15	EKC-LM3S1968
LM3S1968 Evaluation Kit; Code Red Technologies	726-1130-ND	59.15	EKT-LM3S1968
LM3S2965 CAN Evaluation Kit; Keil RealView	726-1053-ND	79.20	EKK-LM3S2965
LM3S2965 CAN Evaluation Kit; IAR Systems	726-1051-ND	79.20	EKI-LM3S2965
LM3S2965 CAN Evaluation Kit; CodeSourcery G++ GNU	726-1049-ND	79.20	EKC-LM3S2965
LM3S2965 CAN Evaluation Kit; Code Red Technologies	726-1131-ND	79.20	EKT-LM3S2965
LM3S2965 Evaluation Kit with Code Composer Studio	296-25780-ND ***NEW!***	79.20	EKS-LM3S2965
LM3S3748 USB Host/Device Evaluation Kit; Keil RealView	726-1184-ND	109.25	EKK-LM3S3748
LM3S3748 USB Host/Device Evaluation Kit; IAR Systems	726-1185-ND	109.25	EKI-LM3S3748
LM3S3748 USB Host/Device Evaluation Kit; CodeSourcery G++ GNU	726-1186-ND	109.25	EKC-LM3S3748
LM3S3748 USB Host/Device Evaluation Kit; Code Red Technologies	726-1187-ND	109.25	EKT-LM3S3748
LM3S3748 Evaluation Kit with Code Composer Studio	296-25781-ND ***NEW!***	109.25	EKS-LM3S3748
LM3S6965 Ethernet Evaluation Kit; Keil RealView	726-1054-ND	69.15	EKK-LM3S6965
LM3S6965 Ethernet Evaluation Kit; IAR Systems	726-1052-ND	69.15	EKI-LM3S6965
LM3S6965 Ethernet Evaluation Kit; CodeSourcery G++ GNU	726-1050-ND	69.15	EKC-LM3S6965
LM3S6965 Ethernet Evaluation Kit; Code Red Technologies	726-1132-ND	69.15	EKT-LM3S6965
LM3S6965 Evaluation Kit with Code Composer Studio	296-25782-ND ***NEW!***	69.15	EKS-LM3S6965
LM3S8962 Ethernet+CAN Evaluation Kit; Keil RealView	726-1085-ND	89.20	EKK-LM3S8962
LM3S8962 Ethernet+CAN Evaluation Kit; IAR Systems	726-1087-ND	89.20	EKI-LM3S8962
LM3S8962 Ethernet+CAN Evaluation Kit; CodeSourcery G++ GNU	726-1086-ND	89.20	EKC-LM3S8962
LM3S8962 Ethernet+CAN Evaluation Kit; Code Red Technologies	726-1133-ND	89.20	EKT-LM3S8962
LM3S8962 Evaluation Kit with Code Composer Studio	296-25784-ND ***NEW!***	89.20	EKS-LM3S8962
LM3S9B90 Evaluation Kit; Keil RealView	726-1196-ND	99.20	EKK-LM3S9B90
LM3S9B90 Evaluation Kit; IAR Systems	726-1197-ND	99.20	EKI-LM3S9B90
LM3S9B90 Evaluation Kit; CodeSourcery G++ GNU	726-1198-ND	99.20	EKC-LM3S9B90
LM3S9B90 Evaluation Kit; Code Red Technologies	726-1199-ND	99.20	EKT-LM3S9B90
LM3S9B90 Evaluation Kit with Code Composer Studio	296-25785-ND ***NEW!***	99.20	EKS-LM3S9B90
LM3S9B92 Evaluation Kit; Keil RealView	726-1200-ND	99.20	EKK-LM3S9B92
LM3S9B92 Evaluation Kit; IAR Systems	726-1201-ND	99.20	EKI-LM3S9B92
LM3S9B92 Evaluation Kit; CodeSourcery G++ GNU	726-1202-ND	99.20	EKC-LM3S9B92
LM3S9B92 Evaluation Kit; Code Red Technologies	726-1203-ND	99.20	EKT-LM3S9B92
LM3S9B92 Evaluation Kit with Code Composer Studio	296-25786-ND ***NEW!***	99.20	EKS-LM3S9B92
DK-LM3S9B96 Development Kit; Keil, IAR, Code Sourcery, and Code Red	726-1194-ND	425.85	DK-LM3S9B96
FPGA Expansion Board for DK-LM3S9B96	296-27564-ND ***NEW!***	176.12	DK-LM3S9B96-FPGA
Memory Expansion Board for DK-LM3S9B96	296-25451-ND ***NEW!***	52.22	DK-LM3S9B96-FS8
LM3S11968 Evaluation Kit with Code Composer Studio	296-25779-ND ***NEW!***	59.15	EKS-LM3S1968
Intelligent Display Reference Design Kit	726-1176-ND	219.45	RDK-IDM
Serial-to-Ethernet Reference Design Kit	726-1177-ND	139.30	RDK-S2E
AC Induction Motor Reference Design Kit	726-1047-ND	379.80	RDK-ACIM
Brushless DC Motor Control Reference Design Kit	726-1128-ND	219.45	RDK-BLDC
Stepper Motor Reference Design Kit	726-1048-ND	199.40	RDK-STEPPER
Intelligent Display Module with 3.5" Landscape Display	726-1191-ND	219.45	RDK-IDM-L35
Stellaris Brushed DC Motor Control Module with CAN	726-1192-ND	219.00	RDK-BDC
Stellaris Intelligent Display Module Single-Board Computer	726-1195-ND	299.60	RDK-IDM-SBC

Production Ready Modules

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
Intelligent Display Module	726-1174-ND	199.40	MDL-IDM
Serial-to-Ethernet Module	726-1175-ND	49.10	MDL-S2E
Stellaris® ACIM Control Board	726-1171-ND	239.50	MDL-ACIM
Brushless DC Motor Control Board	726-1172-ND	149.30	MDL-BLDC
Stellaris Stepper Motor Control Board	726-1173-ND	169.35	MDL-STEPPER
Intelligent Display Module with 3.5" Landscape Display	726-1190-ND	185.40	MDL-IDM-L35

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
Stellaris 12V Brushed DC Motor Control Board	726-1189-ND	109.00	MDL-BDC
Ethernet-Enabled Intelligent Display Module	726-1188-ND	185.40	MDL-IDM28
10-Pin to 20-Pin JTAG Adapter Module	726-1193-ND	20.00	MDL-ADA2
Stellaris Brushed DC Motor Control Module with CAN	296-25445-ND ***NEW!***	109.00	MDL-BDC24
Stellaris Brushed DC Motor Control Reference Design Kit	296-25446-ND ***NEW!***	219.45	RDK-BDC24

zilog ZNEO™ Z16F Series

The ZNEO Z16F Series of Flash microcontrollers represents Zilog's evolution into 16-bit processing. The ZNEO Z16F CPU instruction set has been optimized for near single-cycle instructions yielding up to 20 MIPS at 20MHz. Combined with 128KB of zero wait state internal Flash, powerful math functions, 32-bit ALU supporting 8, 16 and 32-bit operations, embedded 32 x 32 multiply/ 64 x 32 divide operations, 16-bit bus widths (and external 16-bit bus for the Z16F2811's), the ZNEO Z16F delivers a powerful, yet cost effective micro-controller solution. A rich array of peripherals and analog features make this microcontroller suitable for a large number of applications from security panels to motor control.

Features: • WDT • POR • VBO • 12-Channel, 10-bit ADC • Analog Comparator • Operational Amplifier

Memory Size (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Timers (16-bit)	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
								1	25	100		
32K	4	76	2.7 ~ 3.6V	20	3	80-QFP	269-4569-ND	7.80	5.85	4.33	Z16F3211FI20SG	269-4537-ND
	4	76	2.7 ~ 3.6V	20	3	100-LQFP	269-4568-ND	7.95	5.97	4.41	Z16F3211AL20SG	269-4537-ND
64K	4	76	2.7 ~ 3.6V	20	3	80-QFP	269-4571-ND	8.43	6.33	4.69	Z16F6411FI20SG	269-4537-ND
	4	76	2.7 ~ 3.6V	20	3	100-LQFP	269-4570-ND	8.58	6.44	4.76	Z16F6411AL20SG	269-4537-ND
128K	4	46	2.7 ~ 3.6V	20	3	64-LQFP	269-4535-ND	8.49	6.37	4.71	Z16F2810AG20SG	269-4537-ND
	4	46	2.7 ~ 3.6V	20	3	68-PLCC	269-4536-ND	8.52	6.39	4.73	Z16F2810VH20SG	269-4537-ND
	4	46	2.7 ~ 3.6V	20	3	68-PLCC	269-4691-5-ND	8.97	6.73	4.99	Z16F2810VH20EG	269-4537-ND
	4	60	2.7 ~ 3.6V	20	3	80-QFP	269-4534-ND	9.12	6.84	5.06	Z16F2811FI20SG	269-4537-ND
	4	76	2.7 ~ 3.6V	20	3	80-QFP	269-4567-ND	8.64	6.48	4.80	Z16F2810FI20SG	269-4537-ND
	4	76	2.7 ~ 3.6V	20	3	100-LQFP	269-4533-ND	9.24	6.93	5.14	Z16F2811AL20SG	269-4537-ND

Crimzon™ Z8 OTP Microcontrollers

Zilog's Crimzon family of microcontrollers is ideal for use in applications requiring infrared transmission capability. Based on the famous Z8 core, this family of microcontrollers provides up to 1KB random access memory (RAM), up to 128KB of one-time programmable (OTP) memory or 64K read-only (ROM) memory, and a built-in learning amplifier all of which contribute to significant bill of material cost reductions.

Features: • WDT • LV Detect • POR • 2 Comparators • HVD • Speed: 8MHz • Timers 8/16-bit: 1/1 • Operating Voltage: 2.0V ~ 3.6V • Temperature Range: 0°C ~ 70°C

OTP (Bytes)	RAM (Bytes)	I/O Lines	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
					1	25	100		
4K	237	16	20-DIP	269-3854-ND◆	3.96	2.97	2.20	ZLP32300P2004G	269-3398-ND
	237	16	20-SOIC	269-3857-ND◆	3.76	2.84	2.03	ZLP32300S2004G	269-3398-ND
	237	16	20-SSOP	269-3851-ND◆	3.66	2.75	2.03	ZLP32300H2004G	269-3398-ND
	237	24	28-DIP	269-3855-ND◆	4.29	3.22	2.39	ZLP32300P2804G	269-3398-ND
	237	24	28-SOIC	269-3858-ND◆	3.75	2.82	2.09	ZLP32300S2804G	269-3398-ND
	237	24	28-SSOP	269-3852-ND◆	3.75	2.82	2.09	ZLP32300H2804G	269-3398-ND
	237	32	40-DIP	269-3856-ND◆	4.65	3.49	2.59	ZLP32300P4004G	269-3398-ND
	237	32	48-SSOP	269-3853-ND◆	3.78	2.84	2.10	ZLP32300H4804G	269-3398-ND
8K	237	16	20-DIP	269-3422-ND	4.20	3.15	2.34	ZLP32300P2008C	269-3398-ND
	237	16	20-SOIC	269-3423-ND	3.90	2.93	2.17	ZLP32300S2008C	269-3398-ND
	237	16	20-SSOP	269-3424-ND	3.90	2.93	2.17	ZLP32300H2008C	269-3398-ND
	237	24	28-DIP	269-3425-ND	4.56	3.42	2.53	ZLP32300P2808C	269-3398-ND
	237	24	28-SOIC	269-3426-ND	4.02	3.02	2.23	ZLP32300S2808C	269-3398-ND
	237	24	28-SSOP	269-3427-ND	4.02	3.02	2.23	ZLP32300H2808C	269-3398-ND
	237	32	40-DIP	269-3428-ND	4.92	3.69	2.73	ZLP32300P4008C	269-3398-ND
	237	32	48-SSOP	269-3429-ND	4.02	3.02	2.24	ZLP32300H4808C	269-3398-ND
16K	237	16	20-DIP	269-3406-ND	4.74	3.56	2.63	ZLP32300P2016C	269-3398-ND
	237	16	20-SOIC	269-3407-ND	4.17	3.13	2.31	ZLP32300S2016C	269-3398-ND
	237	16	20-SSOP	269-3408-ND	4.44	3.33	2.46	ZLP32300H2016C	269-3398-ND
	237	24	28-DIP	269-3409-ND	4.80	3.60	2.67	ZLP32300P2816C	269-3398-ND
	237	24	28-SOIC	269-3410-ND	4.26	3.20	2.37	ZLP32300S2816C	269-3398-ND
	237	24	28-SSOP	269-3411-ND	4.26	3.20	2.37	ZLP32300H2816C	269-3398-ND
	237	32	40-DIP	269-3412-ND	5.16	3.87	2.87	ZLP32300P4016C	269-3398-ND
	237	32	48-SSOP	269-3413-ND	4.29	3.22	2.39	ZLP32300H4816C	269-3398-ND
32K	237	16	20-DIP	269-3414-ND	4.98	3.74	2.77	ZLP32300P2032C	269-3398-ND
	237	16	20-SOIC	269-3415-ND	4.44	3.33	2.46	ZLP32300S2032C	269-3398-ND
	237	16	20-SSOP	269-3416-ND	4.44	3.33	2.46	ZLP32300H2032C	269-3398-ND
	237	24	28-DIP	269-3417-ND	5.07	3.81	2.81	ZLP32300P2832C	269-3398-ND
32K	237	24	28-SOIC	269-3418-ND	4.53	3.40	2.51	ZLP32300S2832C	269-3398-ND
	237	24	28-SSOP	269-3419-ND	4.53	3.40	2.51	ZLP32300H2832C	269-3398-ND
	237	24	28-SSOP	269-4507-ND◆	4.66	3.52	2.51	ZLP32300H2832G	269-3398-ND
	237	32	40-DIP	269-3420-ND	5.46	4.10	3.04	ZLP32300P4032C	269-3398-ND
	1K	16	20-DIP	269-3839-ND◆	5.96	4.50	3.21	ZLP12840P2032G	269-3398-ND
	1K	16	20-SOIC	269-3845-ND◆	5.33	4.02	2.87	ZLP12840S2032G	269-3398-ND
	1K	16	20-SSOP	269-3833-ND◆	5.33	4.02	2.87	ZLP12840H2032G	269-3398-ND
	1K	24	28-DIP	269-3842-ND◆	6.04	4.56	3.26	ZLP12840P2832G	269-3398-ND
	1K	24	28-SOIC	269-3848-ND◆	5.43	4.10	2.93	ZLP12840S2832G	269-3398-ND
	1K	24	28-SSOP	269-3836-ND◆	5.43	4.10	2.93	ZLP12840H2832G	269-3398-ND
64K	1K	16	20-DIP	269-3840-ND◆	6.57	4.96	3.54	ZLP12840P2064G	269-3398-ND
	1K	16	20-SOIC	269-3846-ND◆	5.88	4.44	3.16	ZLP12840S2064G	269-3398-ND
	1K	16	20-SSOP	269-3834-ND◆	5.88	4.44	3.16	ZLP12840H2064G	269-3398-ND
	1K	24	28-DIP	269-3843-ND◆	6.65	5.02	3.59	ZLP12840P2864G	269-3398-ND
	1K	24	28-SOIC	269-3849-ND◆	5.99	4.52	3.23	ZLP12840S2864G	269-3398-ND
96K	1K	16	20-DIP	269-3841-ND◆	7.23	5.46	3.90	ZLP12840P2096G	269-3398-ND
	1K	16	20-SOIC	269-3847-ND◆	6.47	4.88	3.49	ZLP12840S2096G	269-3398-ND
	1K	24	28-DIP	269-3844-ND◆	7.34	5.54	3.96	ZLP12840P2896G	269-3398-ND
	1K	24	28-SOIC	269-3850-ND◆	6.60	4.98	3.56	ZLP12840S2896G	269-3398-ND
	1K	24	28-SOIC	269-4667-ND◆	7.47	5.61	3.56	ZLP12840H2896G	269-3398-ND
	1K	24	28-SSOP	269-3838-ND◆	6.60	4.98	3.56	ZLP12840H2896G	269-3398-ND
128K	1K	16	20-DIP	269-3825-ND◆	7.98	6.02	4.30	ZLP12840P2028G	269-3398-ND
	1K	16	20-SOIC	269-3827-ND◆	7.13	5.38	3.84	ZLP12840S2028G	269-3398-ND
	1K	16	20-SSOP	269-3823-ND◆	7.13	5.38	3.84	ZLP12840H2028G	269-3398-ND
	1K	24	28-DIP	269-3826-ND◆	8.08	6.10	4.36	ZLP12840P2828G	269-3398-ND
	1K	24	28-SOIC	269-3828-ND◆	7.26	5.48	3.91	ZLP12840S2828G	269-3398-ND
	1K	24	28-SSOP	269-3824-ND◆	7.26	5.48	3.91	ZLP12840H2828G	269-3398-ND

◆ *RoHS Compliant*

Crimzon® Infrared Microcontrollers

ZLF645 Series Flash MCUs

Flash (Bytes)	RAM (Bytes)	I/O Lines	Package	Digi-Key Part No.	Tube Price Each			Zilog Part No.	Development Tools
					1	25	100		
64K	1K	24	28-SOIC	269-4707-5-ND	3.18	2.40	1.70	ZLF645E0S2864G	269-4685-ND

Z8 Encore!® Flash Microcontrollers

Zilog redefines 8-bit with the new Z8 Encore! family of flash microcontrollers. Featuring flash memory and the high-performance register-to-register architecture. Z8 Encore! MCU accelerates design development while reducing total system cost. The same CPU core and peripheral interfaces ensure code compatibility across the entire family. Incorporate the Z8 Encore! into new designs or upgrade from the existing Z8 architecture. **Features**: • Program Memory Type: Flash and On-Chip • Special Features: POR, VBO and WDT • COMM Interfaces: I^{2}C, UART and OCD

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC (V)	Clock Speed (MHz)	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
1K	256	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3745-ND◆	2.40	1.80	1.34	Z8F0113PB005EG	269-3389-ND
	256	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3746-ND◆	2.19	1.65	1.21	Z8F0113PB005SG	269-3389-ND
	256	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3747-ND◆	2.40	1.80	1.34	Z8F0113QB005EG	269-3389-ND
	256	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3748-ND◆	2.19	1.65	1.21	Z8F0113QB005SG	269-3389-ND
	256	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3749-ND◆	2.40	1.80	1.34	Z8F0113SB005EG	269-3389-ND
	256	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3750-ND◆	2.19	1.65	1.21	Z8F0113SB005SG	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SSOP	269-3430-ND	2.70	2.03	1.50	Z8F0113HH005EC	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-3431-ND	2.46	1.85	1.36	Z8F0113HH005SC	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3434-ND	2.82	2.12	1.57	Z8F0113PH005EC	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3435-ND	2.58	1.94	1.43	Z8F0113PH005SC	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3438-ND	2.70	2.03	1.50	Z8F0113SH005EC	269-3389-ND
	256	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3439-ND	2.46	1.85	1.36	Z8F0113SH005SC	269-3389-ND
	256	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3432-ND	2.70	2.03	1.50	Z8F0113HJ005EC	269-3389-ND
	256	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3433-ND	2.46	1.85	1.36	Z8F0113HJ005SC	269-3389-ND
	256	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3437-ND	2.70	2.03	1.50	Z8F0113PJ005SC	269-3389-ND
	256	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3440-ND	2.70	2.03	1.50	Z8F0113SJ005EC	269-3389-ND

◆ ***RoHS Compliant*** † Tube ***Note:*** **Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC (V)	Clock Speed (MHz)	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
1K	256	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3441-ND	2.46	1.85	1.36	Z8F0113SJ005SC	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3753-ND◆	2.55	1.92	1.41	Z8F0123PB005EG	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3754-ND◆	2.31	1.74	1.29	Z8F0123PB005SG	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3755-ND◆	2.55	1.92	1.41	Z8F0123QB005EG	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3756-ND◆	2.31	1.74	1.29	Z8F0123QB005SG	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3757-ND◆	2.55	1.92	1.41	Z8F0123SB005EG	269-3389-ND
	256	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3758-ND◆	2.31	1.74	1.29	Z8F0123SB005SG	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SSOP	269-3442-ND	2.82	2.12	1.57	Z8F0123HH005EC	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-3443-ND	2.58	1.94	1.43	Z8F0123HH005SC	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3446-ND	3.00	2.25	1.66	Z8F0123PH005EC	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3447-ND	2.70	2.03	1.50	Z8F0123PH005SC	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3450-ND	2.82	2.12	1.57	Z8F0123SH005EC	269-3389-ND
	256	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3451-ND	2.58	1.94	1.43	Z8F0123SH005SC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3444-ND	2.82	2.12	1.57	Z8F0123HJ005EC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3445-ND	2.58	1.94	1.43	Z8F0123HJ005SC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3448-ND	3.12	2.34	1.73	Z8F0123PJ005EC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3449-ND	2.82	2.12	1.57	Z8F0123PJ005SC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3452-ND	2.82	2.12	1.57	Z8F0123SJ005EC	269-3389-ND
	256	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3453-ND	2.58	1.94	1.43	Z8F0123SJ005SC	269-3389-ND
2K	512	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3761-ND◆	2.55	1.92	1.41	Z8F0213PB005EG	269-3389-ND
	512	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3762-ND◆	2.31	1.74	1.29	Z8F0213PB005SG	269-3389-ND
	512	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3763-ND◆	2.55	1.92	1.41	Z8F0213QB005EG	269-3389-ND
	512	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3764-ND◆	2.31	1.74	1.29	Z8F0213QB005SG	269-3389-ND
	512	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3765-ND◆	2.55	1.92	1.41	Z8F0213SB005EG	269-3389-ND
	512	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3766-ND◆	2.31	1.74	1.29	Z8F0213SB005SG	269-3389-ND
	512	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SSOP	269-4044-ND◆	2.82	2.12	1.57	Z8F0213HH005EG	269-3389-ND
	512	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-4045-ND◆	2.58	1.94	1.43	Z8F0213HH005SG	269-3389-ND
	512	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3458-ND	3.00	2.25	1.66	Z8F0213PH005EC	269-3389-ND
	512	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3459-ND	2.70	2.03	1.50	Z8F0213PH005SC	269-3389-ND
	512	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3462-ND	2.82	2.12	1.57	Z8F0213SH005EC	269-3389-ND
	512	16	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3463-ND	2.58	1.94	1.43	Z8F0213SH005SC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3456-ND	2.82	2.12	1.57	Z8F0213HJ005EC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3457-ND	2.58	1.94	1.43	Z8F0213HJ005SC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3460-ND	3.75	2.82	1.78	Z8F0213PJ005EC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3461-ND	3.57	2.68	1.70	Z8F0213PJ005SC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3464-ND	2.82	2.12	1.57	Z8F0213SJ005EC	269-3389-ND
	512	24	1 UART, IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3465-ND	2.58	1.94	1.43	Z8F0213SJ005SC	269-3389-ND
	512	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3769-ND◆	2.70	2.03	1.50	Z8F0223PB005EG	269-3389-ND
	512	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3770-ND◆	2.46	1.85	1.36	Z8F0223PB005SG	269-3389-ND
	512	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3771-ND◆	2.70	2.03	1.50	Z8F0223QB005EG	269-3389-ND
	512	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3772-ND◆	2.46	1.85	1.36	Z8F0223QB005SG	269-3389-ND
	512	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3774-ND◆	2.46	1.85	1.36	Z8F0223SB005SG	269-3389-ND
	512	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3470-ND	3.12	2.34	1.73	Z8F0223PH005EC	269-3389-ND
	512	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3471-ND	2.82	2.12	1.57	Z8F0223PH005SC	269-3389-ND
	512	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3474-ND	3.00	2.25	1.66	Z8F0223SH005EC	269-3389-ND
	512	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3475-ND	2.70	2.03	1.50	Z8F0223SH005SC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3468-ND	3.00	2.25	1.66	Z8F0223HJ005EC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3469-ND	2.70	2.03	1.50	Z8F0223HJ005SC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3472-ND	3.27	2.46	1.81	Z8F0223PJ005EC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3473-ND	2.94	2.21	1.64	Z8F0223PJ005SC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3476-ND	3.00	2.25	1.66	Z8F0223SJ005EC	269-3389-ND
	512	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3477-ND	2.70	2.03	1.50	Z8F0223SJ005SC	269-3389-ND
4K	1K	11	UART, I^2C, IrDA	—	2.7 ~ 3.6	20	2	Extended	20-DIP	269-3208-ND	3.39	2.55	1.89	Z8F0411PH020EC	269-4630-ND
	1K	11		—	2.7 ~ 3.6	20	2	Commercial	20-DIP	269-3209-ND	3.09	2.32	1.71	Z8F0411PH020SC	269-4630-ND
	1K	11		—	2.7 ~ 3.6	20	2	Extended	20-SSOP	269-3206-ND	3.39	2.55	1.89	Z8F0411HH020EC	269-4630-ND
	1K	11	UART, I^2C, SPI, IrDA	—	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-3207-ND	3.09	2.32	1.71	Z8F0411HH020SC	269-4630-ND
	1K	11		—	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-4101-ND◆	3.09	2.32	1.71	Z8F0411HH020SG	269-4630-ND
	1K	19		—	2.7 ~ 3.6	20	2	Extended	28-DIP	269-3210-ND	4.11	3.09	2.29	Z8F0412PJ020EC	269-4630-ND
	1K	19	UART, I^2C, SPI, IrDA	—	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-3212-ND	3.60	2.70	2.00	Z8F0412SJ020EC	269-4630-ND
	1K	19		—	2.7 ~ 3.6	20	2	Commercial	28-SOIC	269-3213-ND	3.27	2.46	1.81	Z8F0412SJ020SC	269-4630-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3777-ND◆	2.70	2.03	1.50	Z8F0413PB005EG	269-3389-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3778-ND◆	2.46	1.85	1.36	Z8F0413PB005SG	269-3389-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3779-ND◆	2.70	2.03	1.50	Z8F0413QB005EG	269-3389-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3780-ND◆	2.46	1.85	1.36	Z8F0413QB005SG	269-3389-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3781-ND◆	2.70	2.03	1.50	Z8F0413SB005EG	269-3389-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3782-ND◆	2.46	1.85	1.36	Z8F0413SB005SG	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SSOP	269-4108-ND◆	3.00	2.25	1.66	Z8F0413HH005EG	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-4109-ND◆	2.70	2.03	1.50	Z8F0413HH005SG	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3482-ND	3.12	2.34	1.73	Z8F0413PH005EC	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3483-ND	2.82	2.12	1.57	Z8F0413PH005SC	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3486-ND	3.00	2.25	1.66	Z8F0413SH005EC	269-3389-ND
	1K	16	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3487-ND	2.70	2.03	1.50	Z8F0413SH005SC	269-3389-ND
	1K	24	1 UART IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3480-ND	3.00	2.25	1.66	Z8F0413HJ005EC	269-3389-ND
	1K	24	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3481-ND	2.70	2.03	1.50	Z8F0413HJ005SC	269-3389-ND
	1K	24	1 UART IrDA	—	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3488-ND	3.00	2.25	1.66	Z8F0413SJ005EC	269-3389-ND
	1K	24	1 UART IrDA	—	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3489-ND	2.70	2.03	1.50	Z8F0413SJ005SC	269-3389-ND
	1K	11	UART, I^2C, IrDA	2-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	20-DIP	269-3216-ND	3.84	2.88	2.13	Z8F0421PH020EC	269-4630-ND
	1K	11		2-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	20-SSOP	269-3214-ND	3.84	2.88	2.13	Z8F0421HH020EC	269-4630-ND
	1K	11	UART, I^2C, SPI, IrDA	2-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-3215-ND	3.48	2.61	1.93	Z8F0421HH020SC	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	28-DIP	269-3219-ND	3.90	2.93	2.16	Z8F0422PJ020SC	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-3220-ND	3.96	2.97	2.20	Z8F0422SJ020EC	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	28-SOIC	269-4143-ND◆	3.60	2.70	2.00	Z8F0422SJ020SG	269-4630-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3785-ND◆	2.82	2.12	1.57	Z8F0423PB005EG	269-3389-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3731-ND◆	2.58	1.94	1.43	Z8F0423PB005SG	269-3389-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3786-ND◆	2.82	2.12	1.57	Z8F0423QB005EG	269-3389-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3787-ND◆	2.58	1.94	1.43	Z8F0423QB005SG	269-3389-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3788-ND◆	2.82	2.12	1.57	Z8F0423SB005EG	269-3389-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3732-ND◆	2.58	1.94	1.43	Z8F0423SB005SG	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SSOP	269-4144-ND◆	3.12	2.34	1.73	Z8F0423HH005EG	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-3491-ND	2.82	2.12	1.57	Z8F0423HH005SC	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SSOP	269-4145-ND◆	2.82	2.12	1.57	Z8F0423HH005SG	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3495-ND	2.94	2.21	1.64	Z8F0423PH005SC	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3498-ND	3.12	2.34	1.73	Z8F0423SH005EC	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3499-ND	2.82	2.12	1.57	Z8F0423SH005SC	269-3389-ND
	1K	16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-4153-ND◆	2.82	2.12	1.57	Z8F0423SH005SG	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3492-ND	3.12	2.34	1.73	Z8F0423HJ005EC	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3493-ND	2.82	2.12	1.57	Z8F0423HJ005SC	269-3389-ND

◆ ***RoHS Compliant*** † Tube ***Note:* Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C *(Continued)*

Z8 Encore!® Flash Microcontrollers *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC (V)	Clock Speed (MHz)	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
4K	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-4147-ND◆	2.82	2.12	1.57	Z8F0423HJ005SG	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3496-ND	3.39	2.55	1.89	Z8F0423PJ005EC	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-4150-ND◆	3.39	2.55	1.89	Z8F0423PJ005EG	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3497-ND	3.09	2.32	1.71	Z8F0423PJ005SC	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3500-ND	3.12	2.34	1.73	Z8F0423SJ005EC	269-3389-ND
	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SOIC	269-3501-ND	2.82	2.12	1.57	Z8F0423SJ005SC	269-3389-ND
8K	1K	11	UART, I^2C	—	2.7 ~ 3.6	20	2	Extended	20-DIP	269-3224-ND	3.54	2.66	1.97	Z8F0811PH020EC	269-4630-ND
	1K	11	UART, I^2C	—	2.7 ~ 3.6	20	2	Commercial	20-DIP	269-3225-ND	3.21	2.41	1.79	Z8F0811PH020SC	269-4630-ND
	1K	11	UART, I^2C	—	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-4173-ND◆	3.21	2.41	1.79	Z8F0811HH020SG	269-4630-ND
	1K	19	UART, I^2C, SPI, IrDA	—	2.7 ~ 3.6	20	2	Extended	28-DIP	269-3226-ND	4.14	3.11	2.30	Z8F0812PJ020EC	269-4630-ND
	1K	19		—	2.7 ~ 3.6	20	2	Commercial	28-SOIC	269-4179-ND◆	3.48	2.61	1.93	Z8F0812SJ020SG	269-4630-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3791-ND◆	3.00	2.25	1.66	Z8F0813PB005EG	269-4643-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3792-ND◆	2.70	2.03	1.50	Z8F0813PB005SG	269-4643-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3793-ND◆	3.00	2.25	1.66	Z8F0813QB005EG	269-4643-ND
	1K	6	UART	—	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3795-ND◆	3.00	2.25	1.66	Z8F0813SB005EG	269-4643-ND
	1K	16	UART	—	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3717-ND	3.39	2.55	1.89	Z8F0813PH005EC	269-4643-ND
	1K	16	UART	—	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3718-ND	3.09	2.32	1.71	Z8F0813PH005SC	269-4643-ND
	1K	16	UART	—	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3721-ND	3.27	2.46	1.81	Z8F0813SH005EC	269-4643-ND
	1K	16	UART	—	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3722-ND	2.94	2.21	1.64	Z8F0813SH005SC	269-4643-ND
	1K	24	UART	—	2.7 ~ 3.6	5	2	Extended	28-SSOP	269-3715-ND	3.27	2.46	1.81	Z8F0813HJ005EC	269-4643-ND
	1K	24	UART	—	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-3716-ND	2.94	2.21	1.64	Z8F0813HJ005SC	269-4643-ND
	1K	24	UART	—	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3719-ND	3.66	2.75	2.04	Z8F0813PJ005EC	269-4643-ND
	1K	24	UART	—	2.7 ~ 3.6	5	2	Extended	28-SOIC	269-3723-ND	3.27	2.46	1.81	Z8F0813SJ005EC	269-4643-ND
	1K	11	UART, I^2C, IrDA	2-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	20-DIP	269-3232-ND	3.96	2.97	2.20	Z8F0821PH020EC	269-4630-ND
	1K	11		2-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	20-SSOP	269-3230-ND	3.96	2.97	2.20	Z8F0821HH020EC	269-4630-ND
	1K	11		2-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-3231-ND	3.60	2.70	2.00	Z8F0821HH020SC	269-4630-ND
	1K	11		2-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	20-SSOP	269-4204-ND◆	3.60	2.70	2.00	Z8F0821HH020SG	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	28-DIP	269-4207-ND◆	4.44	3.33	2.46	Z8F0822PJ020EG	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-4209-ND◆	4.11	3.09	2.29	Z8F0822SJ020EG	269-4630-ND
	1K	19		5-ch. 10-bit	2.7 ~ 3.6	20	2	Commercial	28-SOIC	269-4210-ND◆	3.72	2.79	2.07	Z8F0822SJ020SG	269-4630-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-DIP	269-3803-ND◆	3.12	2.34	1.73	Z8F0823PB005EG	269-4643-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-DIP	269-3733-ND◆	2.82	2.12	1.57	Z8F0823PB005SG	269-4643-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-QFN	269-3804-ND◆	3.12	2.34	1.73	Z8F0823QB005EG	269-4643-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-QFN	269-3805-ND◆	2.82	2.12	1.57	Z8F0823QB005SG	269-4643-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	8-SOIC	269-3806-ND◆	3.12	2.34	1.73	Z8F0823SB005EG	269-4643-ND
	1K	6	UART	4-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	8-SOIC	269-3734-ND◆	2.82	2.12	1.57	Z8F0823SB005SG	269-4643-ND
	1K	16	UART	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-DIP	269-3727-ND	3.54	2.66	1.97	Z8F0823PH005EC	269-4643-ND
	1K	16	UART	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-DIP	269-3689-ND	3.21	2.41	1.79	Z8F0823PH005SC	269-4643-ND
	1K	16	UART	7-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	20-SOIC	269-3729-ND	3.39	2.55	1.89	Z8F0823SH005EC	269-4643-ND
	1K	16	UART	7-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	20-SOIC	269-3691-ND	3.09	2.32	1.71	Z8F0823SH005SC	269-4643-ND
	1K	22	UART	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-SSOP	269-4214-ND◆	3.09	2.32	1.71	Z8F0823HJ005SG	269-4643-ND
	1K	22	UART	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-3728-ND	3.84	2.88	2.13	Z8F0823PJ005EC	269-4643-ND
	1K	22	UART	8-ch. 10-bit	2.7 ~ 3.6	5	2	Extended	28-DIP	269-4217-ND◆	3.84	2.88	2.13	Z8F0823PJ005EG	269-4643-ND
	1K	22	UART	8-ch. 10-bit	2.7 ~ 3.6	5	2	Commercial	28-DIP	269-3690-ND	3.48	2.61	1.93	Z8F0823PJ005SC	269-4643-ND
	256	17	UART	8-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-4558-5-ND◆†	2.40	1.80	1.33	Z8F083ASJ020EG	269-4643-ND
	256	17	UART	8-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-4705-5-ND◆†	2.37	1.78	1.31	Z8F0830SJ020EG	269-4643-ND
12K	256	25	UART, I^2C	—	2.7 ~ 3.6	20	2	Extended	28-SOIC	269-4706-5-ND◆†	2.40	1.80	1.33	Z8F1233SJ020EG	269-4664-ND
16K	2K	17	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20	2	Extended	28-SOIC	269-4709-5-ND◆†	4.44	3.33	2.46	Z8F1680SJ020EG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-PLCC	269-3195-ND	12.69	9.52	7.05	Z8F1601VN020EC	—
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-LQFP	269-4234-ND◆	5.97	4.48	3.31	Z8F1621AN020EG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-LQFP	269-4235-ND◆	5.37	4.03	2.99	Z8F1621AN020SG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commerical	40-DIP	269-4237-ND◆	5.64	4.23	3.13	Z8F1621PM020SG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commerical	44-PLCC	269-4239-ND◆	5.37	4.03	2.99	Z8F1621VN020SG	269-4540-ND
	2K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-3259-ND	6.24	4.68	3.46	Z8F1622AR020EC	269-4540-ND
	2K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-4240-ND◆	6.24	4.68	3.46	Z8F1622AR020EG	269-4540-ND
	2K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3260-ND	5.64	4.23	3.13	Z8F1622AR020SC	269-4540-ND
	2K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-4241-ND◆	5.64	4.23	3.13	Z8F1622AR020SG	269-4540-ND
	2K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3640-ND	6.87	5.16	3.44	Z8F1622AR020SC2104	269-4540-ND
	512	17		8-ch. 10-bit	2.7 ~ 3.6	20	2	Extended	32-LQFP	269-3831-ND◆	6.81	5.11	3.79	Z8FMC16100AKEG	269-4540-ND
24K	2K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-LQFP	269-4244-ND◆	6.24	4.68	3.46	Z8F2421AN020EG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-LQFP	269-4245-ND◆	5.64	4.23	3.13	Z8F2421AN020SG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-PLCC	269-4249-ND◆	5.64	4.23	3.13	Z8F2421VN020SG	269-4540-ND
	2K	17	2 UARTS, I^2C, SPI	8-ch. 10-bit	1.8 ~ 3.6	20	2	Extended	28-SOIC	269-4708-5-ND◆†	4.68	3.51	2.60	Z8F2480SJ020EG	269-4540-ND
32K	2K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3140-ND	14.64	10.98	8.14	Z8F3202AR020SC	—
	2K	31	2 UARTS, I^2C, SPI	8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-LQFP	269-4254-ND◆	6.48	4.86	3.60	Z8F3221AN020EG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-LQFP	269-4255-ND◆	5.88	4.41	3.27	Z8F3221AN020SG	269-4540-ND
	2K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	40-DIP	269-4257-ND◆	6.15	4.62	3.41	Z8F3221PM020SG	269-4540-ND
	2K	46	2 UARTS, I^2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-3279-ND	6.72	5.04	3.74	Z8F3222AR020EC	269-4540-ND
	2K	46		12-ch 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3280-ND	6.15	4.62	3.41	Z8F3222AR020SC	269-4540-ND
	2K	46		12-ch 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-4261-ND◆	6.15	4.62	3.41	Z8F3222AR020SG	269-4540-ND
48K	4K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3145-ND	16.44	12.33	9.13	Z8F4802AR020SC	—
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-LQFP	269-4265-ND◆	6.72	5.04	3.73	Z8F4821AN020SG	269-4540-ND
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	40-DIP	269-4267-ND◆	6.96	5.22	3.87	Z8F4821PM020SG	269-4540-ND
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-3290-ND	6.96	5.22	3.87	Z8F4822AR020SC	269-4540-ND
64K	4K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-LQFP	269-3181-ND	19.44	14.58	10.80	Z8F6401AN020EC	—
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-3203-ND	20.01	15.01	11.12	Z8F6402AR020EC	—
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-LQFP	269-4276-ND◆	7.95	5.97	4.41	Z8F6421AN020EG	269-4540-ND
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-LQFP	269-4277-ND◆	7.23	5.43	4.01	Z8F6421AN020SG	269-4540-ND
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	40-DIP	269-4279-ND◆	7.50	5.63	4.16	Z8F6421PM020SG	269-4540-ND
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Extended	44-PLCC	269-4280-ND◆	7.95	5.97	4.41	Z8F6421VN020EG	269-4540-ND
	4K	31		8-ch. 10-bit	3.0 ~ 3.6	20	3	Commercial	44-PLCC	269-4281-ND◆	7.23	5.43	4.01	Z8F6421VN020SG	269-4540-ND
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-3301-ND	12.36	9.27	6.18	Z8F6422AR020EC	269-4540-ND
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	64-LQFP	269-4282-ND◆	8.22	6.17	4.57	Z8F6422AR020EG	269-4540-ND
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	64-LQFP	269-4283-ND◆	7.50	5.63	4.16	Z8F6422AR020SG	269-4540-ND
	4K	46		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	68-PLCC	269-4285-ND◆	7.50	5.63	4.16	Z8F6422VS020SG	269-4540-ND
	4K	60		12-ch. 10-bit	3.0 ~ 3.6	20	4	Extended	80-QFP	269-4286-ND◆	8.22	6.17	4.57	Z8F6423FT020EG	269-4540-ND
	4K	60		12-ch. 10-bit	3.0 ~ 3.6	20	4	Commercial	80-QFP	269-4287-ND◆	7.50	5.63	4.16	Z8F6423FT020SG	269-4540-ND

◆ ***RoHS Compliant*** † Tube ***Note:* Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

Z8 Encore! XP® Flash Microcontrollers 4K Series

The Z8 Encore!® MCU family of products are the first in a line of Zilog microcontroller products based upon the 8-bit eZ8 CPU. The Z8 Encore! XP 4K Series products expand upon Zilog's extensive line of 8-bit microcontrollers. The Flash in-circuit programming capability allows for faster development time and program changes in the field. The new eZ8 CPU is upward compatible with existing Z8 instructions. The rich peripheral set of the Z8 Encore! family makes it suitable for a variety of applications including motor control, security systems, home appliances, personal electronic devices and sensors. **Features:** • Program Memory Type: Flash • On-Chip Special Features: POR, VBO, Temperature Sensor, Analog Comparator, Current Sense Amplifier, up to 18 vectored interrupts • WDT • COMM Interfaces: UART, OCD • Operating Temperature: Extended -40°C ~ 105° C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
1K	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3642-ND	2.64	1.98	1.46	Z8F011APB020EC	269-3307-ND, 269-3638-ND
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3643-ND	2.40	1.80	1.33	Z8F011APB020SC	
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3751-ND◆	2.64	1.98	1.46	Z8F011AQB020EG	
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3752-ND◆	2.40	1.80	1.33	Z8F011AQB020SG	
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3646-ND	2.64	1.98	1.46	Z8F011ASB020EC	
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-4010-ND◆	2.64	1.98	1.46	Z8F011ASB020EG	
	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3647-ND	2.40	1.80	1.33	Z8F011ASB020SC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3308-ND	3.00	2.25	1.66	Z8F011AHH020EC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3309-ND	2.70	2.03	1.50	Z8F011AHH020SC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3312-ND	3.00	2.25	1.66	Z8F011APH020EC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3313-ND	2.70	2.03	1.50	Z8F011APH020SC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3316-ND	3.00	2.25	1.66	Z8F011ASH020EC	
	256	17	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3317-ND	2.70	2.03	1.50	Z8F011ASH020SC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3310-ND	3.00	2.25	1.66	Z8F011AHJ020EC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3311-ND	2.70	2.03	1.50	Z8F011AHJ020SC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3314-ND	3.27	2.46	1.81	Z8F011APJ020EC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3315-ND	2.94	2.21	1.64	Z8F011APJ020SC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SOIC	269-3318-ND	3.00	2.25	1.66	Z8F011ASJ020EC	
	256	25	16	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3319-ND	2.70	2.03	1.50	Z8F011ASJ020SC	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3648-ND	2.82	2.12	1.57	Z8F012APB020EC	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3649-ND	2.58	1.94	1.43	Z8F012APB020SC	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3759-ND◆	2.82	2.12	1.57	Z8F012AQB020EG	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3760-ND◆	2.58	1.94	1.43	Z8F012AQB020SG	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3652-ND	2.82	2.12	1.57	Z8F012ASB020EC	
	256	6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3653-ND	2.58	1.94	1.43	Z8F012ASB020SC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3320-ND	3.12	2.34	1.73	Z8F012AHH020EC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3321-ND	2.82	2.12	1.57	Z8F012AHH020SC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3324-ND	3.12	2.34	1.73	Z8F012APH020EC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3325-ND	2.82	2.12	1.57	Z8F012APH020SC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4035-ND◆	2.82	2.12	1.57	Z8F012APH020SG	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3328-ND	3.12	2.34	1.73	Z8F012ASH020EC	
	256	17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3329-ND	2.82	2.12	1.57	Z8F012ASH020SC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3322-ND	3.12	2.34	1.73	Z8F012AHJ020EC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3323-ND	2.82	2.12	1.57	Z8F012AHJ020SC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3326-ND	3.39	2.55	1.89	Z8F012APJ020EC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3327-ND	3.09	2.32	1.71	Z8F012APJ020SC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SOIC	269-3330-ND	3.12	2.34	1.73	Z8F012ASJ020EC	
	256	23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3331-ND	2.82	2.12	1.57	Z8F012ASJ020SC	
2K	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3654-ND	2.76	2.07	1.54	Z8F021APB020EC	269-3307-ND, 269-3638-ND
	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3655-ND	2.52	1.89	1.40	Z8F021APB020SC	
	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3767-ND◆	2.76	2.07	1.54	Z8F021AQB020EG	
	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3768-ND◆	2.52	1.89	1.40	Z8F021AQB020SG	
	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3658-ND	2.76	2.07	1.54	Z8F021ASB020EC	
	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3659-ND	2.52	1.89	1.40	Z8F021ASB020SC	
	512	17	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3332-ND	3.12	2.34	1.73	Z8F021AHH020EC	
	512	17	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3333-ND	2.82	2.12	1.57	Z8F021AHH020SC	
	512	17	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3336-ND	3.12	2.34	1.73	Z8F021APH020EC	
	512	17	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3337-ND	2.82	2.12	1.57	Z8F021APH020SC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3340-ND	3.12	2.34	1.73	Z8F021ASH020EC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3341-ND	2.82	2.12	1.57	Z8F021ASH020SC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4069-ND◆	2.82	2.12	1.57	Z8F021ASH020SG	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3334-ND	3.12	2.34	1.73	Z8F021AHJ020EC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3335-ND	2.82	2.12	1.57	Z8F021AHJ020SC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3338-ND	3.39	2.55	1.89	Z8F021APJ020EC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3339-ND	3.09	2.32	1.71	Z8F021APJ020SC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SOIC	269-3342-ND	3.12	2.34	1.73	Z8F021ASJ020EC	
	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3343-ND	2.82	2.12	1.57	Z8F021ASJ020SC	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-4088-ND◆	3.00	2.25	1.66	Z8F022APB020EG	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-4089-ND◆	2.70	2.03	1.50	Z8F022APB020SG	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3775-ND◆	3.00	2.25	1.66	Z8F022AQB020EG	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3776-ND◆	2.70	2.03	1.50	Z8F022AQB020SG	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3664-ND	3.00	2.25	1.66	Z8F022ASB020EC	
	512	6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3665-ND	2.70	2.03	1.50	Z8F022ASB020SC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3344-ND	3.27	2.46	1.81	Z8F022AHH020EC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3345-ND	2.94	2.21	1.64	Z8F022AHH020SC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3348-ND	3.27	2.46	1.81	Z8F022APH020EC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3349-ND	2.94	2.21	1.64	Z8F022APH020SC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3352-ND	3.27	2.46	1.81	Z8F022ASH020EC	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-4096-ND◆	3.27	2.46	1.81	Z8F022ASH020EG	
	512	17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3353-ND	2.94	2.21	1.64	Z8F022ASH020SC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3346-ND	3.27	2.46	1.81	Z8F022AHJ020EC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3347-ND	2.94	2.21	1.64	Z8F022AHJ020SC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3350-ND	3.54	2.66	1.97	Z8F022APJ020EC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3351-ND	3.21	2.41	1.79	Z8F022APJ020SC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SOIC	269-3354-ND	3.27	2.46	1.81	Z8F022ASJ020EC	
	512	23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3355-ND	2.94	2.21	1.64	Z8F022ASJ020SC	
4K	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3666-ND	2.91	2.19	1.61	Z8F041APB020EC	269-3307-ND, 269-3638-ND
	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3667-ND	2.64	1.98	1.47	Z8F041APB020SC	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Z8 Encore! XP® Flash Microcontrollers 4K Series *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
4K	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3783-ND◆	2.91	2.19	1.61	Z8F041AQB020EG	269-3307-ND, 269-3638-ND
	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3784-ND◆	2.64	1.98	1.47	Z8F041AQB020SG	
	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3670-ND	2.91	2.19	1.61	Z8F041ASB020EC	
	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3671-ND	2.64	1.98	1.47	Z8F041ASB020SC	
	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-4131-ND◆	2.64	1.98	1.47	Z8F041ASB020SG	
	1K	17	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3360-ND	3.27	2.46	1.81	Z8F041APH020EC	
	1K	17	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3361-ND	2.94	2.21	1.64	Z8F041APH020SC	
	1K	17	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3364-ND	3.27	2.46	1.81	Z8F041ASH020EC	
	1K	17	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3365-ND	2.94	2.21	1.64	Z8F041ASH020SC	
	1K	25	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3358-ND	3.27	2.46	1.81	Z8F041AHJ020EC	
	1K	25	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3359-ND	2.94	2.21	1.64	Z8F041AHJ020SC	
	1K	25	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3362-ND	3.54	2.66	1.97	Z8F041APJ020EC	
	1K	25	128	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3363-ND	3.21	2.41	1.79	Z8F041APJ020SC	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-4160-ND◆	3.12	2.34	1.73	Z8F042APB020EG	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-4161-ND◆	2.82	2.12	1.57	Z8F042APB020SG	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3790-ND◆	2.82	2.12	1.57	Z8F042AQB020SG	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3676-ND	3.12	2.34	1.73	Z8F042ASB020EC	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-4166-ND◆	3.12	2.34	1.73	Z8F042ASB020EG	
	1K	6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3677-ND	2.82	2.12	1.57	Z8F042ASB020SC	
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-4156-ND◆	3.39	2.55	1.89	Z8F042AHH020EG	
1K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4580-5-ND◆	1.95	1.47	1.09	Z8F0130HH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4582-5-ND◆	1.95	1.47	1.09	Z8F0130PH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4584-ND◆	1.95	1.47	1.09	Z8F0130QH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4586-ND◆	1.95	1.47	1.09	Z8F0130SH020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4581-5-ND◆	1.95	1.47	1.09	Z8F0130HJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4583-5-ND◆	2.22	1.67	1.23	Z8F0130PJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4585-ND◆	1.95	1.47	1.09	Z8F0130QJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4587-5-ND◆	1.95	1.47	1.09	Z8F0130SJ020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4588-5-ND◆	1.77	1.33	.99	Z8F0131HH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4590-5-ND◆	1.77	1.33	.99	Z8F0131PH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4592-ND◆	1.77	1.33	.99	Z8F0131QH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4594-5-ND◆	1.77	1.33	.99	Z8F0131SH020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4589-5-ND◆	1.77	1.33	.99	Z8F0131HJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4591-5-ND◆	2.22	1.67	1.23	Z8F0131PJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4593-ND◆	1.77	1.33	.99	Z8F0131QJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4595-5-ND◆	1.77	1.33	.99	Z8F0131SJ020SG	269-4643-ND
2K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4596-5-ND◆	2.01	1.51	1.11	Z8F0230HH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4598-5-ND◆	2.01	1.51	1.11	Z8F0230PH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4600-ND◆	2.01	1.51	1.11	Z8F0230QH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4602-5-ND◆	2.01	1.51	1.11	Z8F0230SH020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4597-5-ND◆	2.01	1.51	1.11	Z8F0230HJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4599-5-ND◆	2.28	1.71	1.26	Z8F0230PJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4601-ND◆	2.01	1.51	1.11	Z8F0230QJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4603-5-ND◆	2.01	1.51	1.11	Z8F0230SJ020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4604-5-ND◆	1.86	1.40	1.03	Z8F0231HH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4606-5-ND◆	1.86	1.40	1.03	Z8F0231PH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4608-ND◆	1.86	1.40	1.03	Z8F0231QH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4610-5-ND◆	1.86	1.40	1.03	Z8F0231SH020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4605-5-ND◆	1.86	1.40	1.03	Z8F0231HJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4607-5-ND◆	2.31	1.74	1.29	Z8F0231PJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4609-ND◆	1.86	1.40	1.03	Z8F0231QJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4611-5-ND◆	1.86	1.40	1.03	Z8F0231SJ020SG	269-4643-ND
4K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4612-5-ND◆	2.10	1.58	1.17	Z8F0430HH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4614-5-ND◆	2.10	1.58	1.17	Z8F0430PH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4616-ND◆	2.10	1.58	1.17	Z8F0430QH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4618-5-ND◆	2.10	1.58	1.17	Z8F0430SH020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4613-5-ND◆	2.10	1.58	1.17	Z8F0430HJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4615-5-ND◆	2.37	1.78	1.31	Z8F0430PJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4617-ND◆	2.10	1.58	1.17	Z8F0430QJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4619-5-ND◆	2.10	1.58	1.17	Z8F0430SJ020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4620-5-ND◆	1.92	1.44	1.07	Z8F0431HH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4622-5-ND◆	1.92	1.44	1.07	Z8F0431PH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4624-ND◆	1.92	1.44	1.07	Z8F0431QH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4626-5-ND◆	1.92	1.44	1.07	Z8F0431SH020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4621-5-ND◆	1.92	1.44	1.07	Z8F0431HJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4623-5-ND◆	2.40	1.80	1.33	Z8F0431PJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4625-ND◆	1.92	1.44	1.07	Z8F0431QJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4627-5-ND◆	1.92	1.44	1.07	Z8F0431SJ020SG	269-4643-ND
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3369-ND	3.09	2.32	1.71	Z8F042AHH020SC	269-3307-ND, 269-3638-ND
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4157-ND◆	3.09	2.32	1.71	Z8F042AHH020SG	
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3373-ND	3.09	2.32	1.71	Z8F042APH020SC	
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3377-ND	3.09	2.32	1.71	Z8F042ASH020SC	
	1K	23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3371-ND	3.09	2.32	1.71	Z8F042AHJ020SC	269-3307-ND
	1K	23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3374-ND	3.66	2.75	2.04	Z8F042APJ020EC	269-3307-ND
	1K	23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3379-ND	3.09	2.32	1.71	Z8F042ASJ020SC	269-3307-ND
	1K	23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4171-ND◆	3.09	2.32	1.71	Z8F042ASJ020SG	269-3307-ND
8K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4631-5-ND◆	2.37	1.78	1.31	Z8F0830HH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4530-ND◆	2.37	1.78	1.31	Z8F0830PH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4633-ND◆	2.37	1.78	1.31	Z8F0830QH020SG	269-4643-ND
	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4529-ND◆	2.37	1.78	1.31	Z8F0830SH020SG	269-4643-ND

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

zilog Z8 Encore! XP® Flash Microcontrollers 4K Series *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
8K	256	23	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4532-ND◆	2.64	1.98	1.46	Z8F0830PJ020SG	269-4643-ND
	256	23	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4531-ND◆	2.37	1.78	1.31	Z8F0830SJ020SG	269-4643-ND
	256	25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4632-5-ND◆	2.37	1.78	1.31	Z8F0830HJ020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4635-5-ND◆	2.10	1.58	1.17	Z8F0831HH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4637-5-ND◆	2.10	1.58	1.17	Z8F0831PH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4639-ND◆	2.10	1.58	1.17	Z8F0831QH020SG	269-4643-ND
	256	17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4641-5-ND◆	2.10	1.58	1.17	Z8F0831SH020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4636-5-ND◆	2.10	1.58	1.17	Z8F0831HJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4638-5-ND◆	2.49	1.87	1.39	Z8F0831PJ020SG	269-4643-ND
	256	25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4640-ND◆	2.10	1.58	1.17	Z8F0831QJ020SG	269-4643-ND
	256	17	100	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4557-5-ND◆	2.40	1.80	1.33	Z8F083ASH020SG	269-4672-ND
	256	17	100	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-PDIP	269-4549-5-ND◆	2.40	1.80	1.33	Z8F083APH020SG	269-4672-ND
	256	23	100	—	8-ch. 10-bit	2.7 ~ 3.6	20MHZ	2	Commercial	28-SOIC	269-4559-5-ND◆	2.40	1.80	1.33	Z8F083ASJ020SG	269-4672-ND
	256	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3797-ND◆	3.27	2.46	1.81	Z8F081APB020EG	269-3686-ND
	256	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3798-ND◆	2.94	2.21	1.64	Z8F081APB020SG	269-3686-ND
	1K	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3799-ND◆	3.27	2.46	1.81	Z8F081AQB020EG	269-3686-ND
	1K	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3800-ND◆	2.94	2.21	1.64	Z8F081AQB020SG	269-3686-ND
	1K	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3801-ND◆	3.27	2.46	1.81	Z8F081ASB020EG	269-3686-ND
	1K	17	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3696-ND	3.21	2.41	1.79	Z8F081AHH020SC	269-3686-ND
	1K	17	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3699-ND	3.54	2.66	1.97	Z8F081APH020EC	269-3686-ND
	1K	17	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-3700-ND	3.21	2.41	1.79	Z8F081APH020SC	269-3686-ND
	1K	17	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3703-ND	3.54	2.66	1.97	Z8F081ASH020EC	269-3686-ND
	1K	17	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-3704-ND	3.21	2.41	1.79	Z8F081ASH020SC	269-3686-ND
	1K	25	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3698-ND	3.21	2.41	1.79	Z8F081AHJ020SC	269-3686-ND
	1K	25	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3701-ND	3.84	2.88	2.13	Z8F081APJ020EC	269-3686-ND
	1K	25	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3702-ND	3.48	2.61	1.93	Z8F081APJ020SC	269-3686-ND
	1K	25	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SOIC	269-3705-ND	3.54	2.66	1.97	Z8F081ASJ020EC	269-3686-ND
	1K	25	—	UART	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-3706-ND	3.21	2.41	1.79	Z8F081ASJ020SC	269-3686-ND
	1K	17	—	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3711-ND	3.66	2.75	2.04	Z8F082ASH020EC	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3807-ND◆	3.39	2.55	1.89	Z8F082APB020EG	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-DIP	269-3735-ND◆	3.66	3.36	2.04	Z8F082APB020SG	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3808-ND◆	3.39	2.55	1.89	Z8F082AQB020EG	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-QFN	269-3809-ND◆	3.09	2.32	1.71	Z8F082AQB020SG	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-SOIC	269-3810-ND◆	3.39	2.55	1.89	Z8F082ASB020EG	269-3686-ND
	1K	6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	8-SOIC	269-3736-ND◆	3.09	2.32	1.71	Z8F082ASB020SG	269-3686-ND
	1K	23	—	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-DIP	269-3710-ND	3.96	2.97	2.20	Z8F082APJ020EC	269-3686-ND
	1K	23	—	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-3683-ND	3.60	2.70	2.00	Z8F082APJ020SC	269-3686-ND
12K	256	17	—	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4644-5-ND◆	2.64	1.98	1.46	Z8F1232HH020SG	269-4643-ND
	256	17	—	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4646-5-ND◆	2.64	1.98	1.46	Z8F1232PH020SG	269-4643-ND
	256	17	—	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4648-ND◆	2.64	1.98	1.46	Z8F1232QH020SG	269-4643-ND
	256	17	—	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4650-5-ND◆	2.64	1.98	1.46	Z8F1232SH020SG	269-4643-ND
	256	25	—	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4645-5-ND◆	2.64	1.98	1.46	Z8F1232HJ020SG	269-4643-ND
	256	25	—	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4647-5-ND◆	2.88	2.16	1.60	Z8F1232PJ020SG	269-4643-ND
	256	25	—	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4649-ND◆	2.64	1.98	1.46	Z8F1232QJ020SG	269-4643-ND
	256	25	—	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4651-5-ND◆	2.64	1.98	1.46	Z8F1232SJ020SG	269-4643-ND
	256	17	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4652-5-ND◆	2.40	1.80	1.33	Z8F1233HH020SG	269-4643-ND
	256	17	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-DIP	269-4654-5-ND◆	2.40	1.80	1.33	Z8F1233PH020SG	269-4643-ND
	256	17	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-QFN	269-4656-ND◆	2.40	1.80	1.33	Z8F1233QH020SG	269-4643-ND
	256	17	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4658-5-ND◆	2.40	1.80	1.33	Z8F1233SH020SG	269-4643-ND
	256	25	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4653-5-ND◆	2.40	1.80	1.33	Z8F1233HJ020SG	269-4643-ND
	256	25	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4655-5-ND◆	2.58	1.94	1.44	Z8F1233PJ020SG	269-4643-ND
	256	25	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-QFN	269-4657-ND◆	2.40	1.80	1.33	Z8F1233QJ020SG	269-4643-ND
	256	25	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SOIC	269-4659-5-ND◆	2.40	1.80	1.33	Z8F1233SJ020SG	269-4643-ND
16K	1K	23	256	1-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	28-SOIC	269-4673-ND◆	4.44	3.33	2.46	Z8F1680SJ020SG	269-4664-ND
	1K	37	256	2-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	44-LQFP	269-4674-ND◆	4.44	3.33	2.46	Z8F1680AN020SG	269-4664-ND
24K	1K	23	—	1-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	28-SOIC	269-4675-ND◆	4.68	3.51	2.60	Z8F2480SJ020SG	269-4664-ND
	1K	37	—	2-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	44-LQFP	269-4676-ND◆	4.68	3.51	2.60	Z8F2480AN020SG	269-4664-ND

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

Z8 Encore!® MC (Motor Control) Flash Microcontrollers

The Z8FMCxx100 Series Flash MCU is based on ZiLOG's advanced eZ8 8-bit CPU core and is optimized for motor control applications. It supports control of single and multiphase variable speed motors. Target applications are consumer appliances, HVAC, factory automation, refrigeration, and automotive applications.

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/Counters, PWM's	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
4K	512	17	UART,with IrDA, I2C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3811-ND	6.42	4.82	3.56	Z8FMC04100AKEG	269-3639-ND
	512	17		8-ch. 10-bit	2.7 ~ 3.6V	20MHz		Extended	32-QFN	269-3813-ND	6.42	4.82	3.56	Z8FMC04100QKEG	269-3639-ND
4K	512	17	UART,with IrDA, I2C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3812-ND	5.82	4.37	3.23	Z8FMC04100AKSG	269-3830-ND
	512	17		8-ch. 10-bit	2.7 ~ 3.6V	20MHz		Commercial	32-QFN	269-3814-ND	5.82	4.37	3.23	Z8FMC04100QKSG	269-3830-ND
8K	512	17	UART,with IrDA, I2C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3815-ND	6.54	4.91	3.63	Z8FMC08100AKEG	269-3639-ND
	512	17		8-ch. 10-bit	2.7 ~ 3.6V	20MHz		Extended	32-QFN	269-3817-ND	6.54	4.91	3.63	Z8FMC08100QKEG	269-3639-ND
8K	512	17	UART,with IrDA, I2C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3816-ND	5.94	4.46	3.30	Z8FMC08100AKSG	269-3830-ND
16K	512	17	UART,with IrDA, I2C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3819-ND	5.70	4.28	3.16	Z8FMC16100AKSG	269-3830-ND
	512	17		8-ch. 10-bit	2.7 ~ 3.6V	20MHz		Commercial	32-QFN	269-3832-ND	6.81	5.11	3.79	Z8FMC16100QKEG	269-3830-ND

Note: Temperature Range: • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

zilog eZ80AcclaimPlus!™ Flash Microcontrollers

Flash (KB)	SRAM (KB)	I/O Lines	DMA Controller	Speed (MHz)	16-bit Timers	EMAC	Other Features	IrDA	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-3867-ND◆	12.60	9.45	7.00	EZ80F91AZ050EG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-3868-ND◆	11.46	8.60	6.37	EZ80F91AZ050SG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-BGA	269-3250-ND	30.87	23.16	13.72	EZ80F91NA050EC
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-BGA	269-3869-ND◆	14.01	10.51	7.79	EZ80F91NA050EG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-BGA	269-3870-ND◆	12.75	9.57	7.09	EZ80F91NA050SG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-4563-ND◆	12.60	9.45	7.00	EZ80F91AZA50EG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-4564-ND◆	11.46	8.60	6.37	EZ80F91AZA50SG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-BGA	269-4565-ND◆	14.01	10.51	7.79	EZ80F91NAA50EG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-BGA	269-4566-ND◆	12.75	9.57	7.09	EZ80F91NAA50SG
128K	8K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3871-ND◆	8.67	6.51	4.81	EZ80F92AZ020EG
128K	8K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3872-ND	7.86	5.90	4.37	EZ80F92AZ020SG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3201-ND	7.14	5.36	3.96	EZ80F93AZ020EC
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3873-ND◆	7.14	5.36	3.96	EZ80F93AZ020EG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3164-ND	6.33	4.75	3.51	EZ80F93AZ020SC
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^2C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3874-ND◆	6.33	4.75	3.51	EZ80F93AZ020SG
—	—	24	—	20	6	—	2 UARTS, SPI, I^2C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3875-ND◆	14.22	10.67	7.90	EZ80L92AZ020EG
—	—	24	—	20	6	—	2 UARTS, SPI, I^2C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3168-ND	12.36	9.27	6.87	EZ80L92AZ020SC
—	—	24	—	20	6	—	2 UARTS, SPI, I^2C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3876-ND◆	12.36	9.27	6.87	EZ80L92AZ020SG
—	—	24	—	50	6	—	2 UARTS, SPI, I^2C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3169-ND	15.63	11.73	8.69	EZ80L92AZ050EC
—	—	24	—	50	6	—	2 UARTS, SPI, I^2C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3878-ND◆	13.62	10.22	7.56	EZ80L92AZ050SG

◆ ***RoHS Compliant***

Emulators

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 Encore!®			
Z8 Encore! 64K Series 64-pin LQFP Emulator Kit	269-3395-ND	2995.00	Z8F6422AR00ZEM
Z8 Encore! 64K Series 68-pin PLCC Emulator Kit	269-3396-ND	2995.00	Z8F6422VS00ZEM
Z8 Encore!® MC			
Z8 Encore! MC Z8FMC16100 Emulator	269-3830-ND	2000.00	Z8FMC161000ZEM

Development Kits

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™ — RoHS Compliant			
Development Kit for eZ80F91	269-4560-ND	112.00	EZ80F910200KITG
Development Kit for eZ80F91	269-4561-ND	290.16	EZ80F910300ZCOG
ZDots SBC for Z80Acclaim	269-4671-ND	90.00	EZ80F917050SBCG
eZ80AcclaimPlus!™			
eZ80AcclaimPlus!™ Wireless ZDots® SBC Development Kit	269-4715-ND	134.34	EZ80F91WF01ZCOG
Z8 Encore!®			
Z8 Encore! Development Kit (8K/4K)	269-4630-ND◆	47.94	Z8F08200100KITG
Z8 Encore! Z8F642 MCU Development Kit	269-4540-ND◆	47.94	Z8F64200100KITG
Z8 Encore! Z8F642 MCU Development Kit (28-Pin Series)	269-4677-ND◆	89.94	Z8F16800128ZCOG
Z8 Encore! Motor Control Development Kit	269-3639-ND	208.00	Z8FMC160100KIT
Z8 Encore! Motor Control Development Kit	269-4660-ND◆	208.00	Z8FMC160100KITG
Z8 Encore! XP®			
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-3638-ND	56.25	Z8F04A08100KIT
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-4628-ND◆	56.25	Z8F04A08100KITG
Z8 Encore! XP 4K Series, (28-pin) Development Kit	269-4629-ND◆	47.94	Z8F04A28100KITG
Z8 Encore! XP F08xA Series, (28-pin) Development Kit	269-4643-ND◆	47.94	Z8F08A28100KITG

◆ ***RoHS Compliant***

Adapters

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 Encore!®			
Z8 Encore! 64K Series 44-pin LQFP ICE Adapter	269-3400-ND	299.00	Z8F64210100ZDA
Z8 Encore! 64K Series 40-pin PDIP ICE Adapter	269-3401-ND	299.00	Z8F64210100ZDP
Z8 Encore! 64K Series 44-pin PLCC ICE Adapter	269-3402-ND	299.00	Z8F64210100ZDV
Z8 Encore! 64K Series 64-pin LQFP ICE Adapter	269-3403-ND	299.00	Z8F64220100ZDA
Z8 Encore! 64K Series 68-pin PLCC ICE Adapter	269-3404-ND	299.00	Z8F64220100ZDV
Z8 Encore! 64K Series 80-pin QFP ICE Adapter	269-3405-ND	299.00	Z8F64230100ZDF

Modules

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™			
Multipurpose MCU Module	269-3861-ND◆	90.00	EZ80F915050MODG
Flash Module for eZ80F92	269-3156-ND	63.08	EZ80F920020MOD
Ethernet Module for eZ80F92	269-3157-ND	81.00	EZ80F920120MOD
eZ80® — RoHS Compliant			
Webserver-i Ethernet Module	269-4670-ND	68.85	EZ80L925048MODG
Mini Ethernet Module	269-3860-ND	52.50	EZ80F915005MODG
Mini Ethernet Module	269-4666-ND	75.00	EZ80F916005MODG
ePIR™ Motion Detection Zdots®			
Single Board Computer Development Kit	269-4711-ND	119.94	ZEPIR000101ZCOG

◆ ***RoHS Compliant***

Accessory Kits

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™			
USB Smart Cable Accessory Kit	269-4539-ND	35.94	ZUSBSC00100ZACG
Ethernet Smart Cable Accessory Kit	269-4661-ND	83.99	ZENETSC0100ZACG
Z8 Encore!® MC™			
Opto-isolated USB Smart Cable Accessory Kit	269-4664-ND	90.00	ZUSBOPTSC01ZACG
Crimzon™			
20-Pin Accessory Kit	269-4684-ND	195.00	ZCRMZNICE01ZACG
40/48-Pin Accessory	269-4686-ND	572.00	ZCRMZNICE02ZACG

Z8® Series Microcontrollers

Z8 MCU Family

OVERVIEW: Zilog MCU products are targeted for cost-sensitive, high-volume applications including consumer, automotive, security, and HVAC. One-time programmable (OTPs) for prototyping as well as volume production where time to market or code flexibility is critical. A variety of packaging options are available. The same on-chip peripherals are used across the MCU product line with the primary differences being the amount of ROM/RAM, number of I/O lines present, and packaging/temperature ranges available. This allows code written for one MCU device to be easily ported to another family member.

FEATURES: • **General-Purpose Register (GPR) File Architecture:** Every RAM register acts like an accumulator, speeding instruction execution and maximizing coding efficiency. Working register groups allow fast context switching. • **Flexible I/O:** I/O byte, nibble, and/or bit programmable as inputs or outputs. Outputs are software programmable as open-drain or push-pull on a port basis. Inputs are Schmitt-triggered with auto latches to hold unused inputs at a known voltage state. • **Analog Inputs:** Three input pins are software programmable as digital or analog inputs. When in the analog mode, two comparator inputs are provided with a common reference input. • **Timer/Counter (T/C):** The T/C consists of a programmable 6-bit prescaler and 8-bit downcounter, with maskable interrupt upon end-of-count. • **Interrupts:** There are six vectored interrupt sources with software-programmable enable and priority for each of the six sources. • **Watch-Dog Timer (WDT):** An internal WDT circuit is included as a fail-safe mechanism so that if software strays outside the bounds of normal operation, the WDT will timeout and reset the MCU. • **Auto Reset:** All family devices have internal Power-On Reset. • **Low-EMI Operation:** Mode is programmable via software or as a mask option. This new option provides for reduced radiated emission via clock and output drive circuit changes. • **Low-Power:** CMOS with two standby modes; STOP and HALT. • **Full Z8 Instruction Set:** Forty-eight basic instructions, supported by six addressing modes with the ability to operate on bits, nibbles, bytes, and words.

Accessory Kit:

The Z86CCP00ZAC is the accessory kit for the Z86CCP01ZEM. The kit contains all accessories to fully populate and operate all functions of the Z86CCP01ZEM.

KIT CONTENTS: • 28-Pin DIP ZIF Socket • 28-Pin Target Connector Cable • 40-Pin DIP ZIF Socket • 40-Pin Target Connector Cable • RS-232 Cable • Power Cable

Memory Size		I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Supply Voltage Range	Operating Temperature (°C)	Package	Digi-Key Part No.	Price Each			Zilog Part No.
EPROM	RAM								1	25	100	
0.5K	61	14	XTAL/RC	DC-8MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	269-3948-ND◆	1.74	1.31	.96	Z86E0208PSG1925
	61	14	XTAL/RC	DC-8MHz	3.5 ~ 5.5	0 ~ 70	18-SOIC	269-1014-ND	1.74	1.31	.96	Z86E0208SSC1925
	61	14	XTAL	DC-8MHz	3.5 ~ 5.5	0 ~ 70	20-SSOP	269-3069-ND	2.13	1.60	1.19	Z86E0208HSC1925
	61	14	XTAL/RC	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3947-ND◆	2.40	1.80	1.33	Z86E0208PEG1925
	61	14	XTAL/RC	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-3949-ND◆	2.40	1.80	1.33	Z86E0208SEG1925
	61	14	XTAL	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3068-ND	2.34	1.76	1.30	Z86E0208HEC1925
1K	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-1096-ND	2.58	1.94	1.44	Z86E0412PSC1903
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3076-ND	3.21	2.41	1.79	Z86E0412HSC1866
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3952-ND◆	3.60	2.70	2.00	Z86E0412HSG1866
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3077-ND	3.21	2.41	1.79	Z86E0412HSC1903
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-1093-ND	3.36	2.52	1.86	Z86E0412PEC
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3954-ND◆	3.75	2.82	2.08	Z86E0412PEG
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-1097-ND	3.36	2.52	1.86	Z86E0412SEC
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3074-ND	3.54	2.66	1.97	Z86E0412HEC1866
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3075-ND	3.54	2.66	1.97	Z86E0412HEC1903
2K	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-3961-ND◆	3.03	2.28	1.68	Z86E0812PSG1866
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-3962-ND◆	3.03	2.28	1.68	Z86E0812PSG1903
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3089-ND	3.90	2.93	2.16	Z86E0812HSC1903
	125	14	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-1055-ND	5.46	4.10	3.04	Z86E3116SSC
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3960-ND◆	4.56	3.42	2.54	Z86E0812PEG
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-3963-ND◆	3.30	2.48	1.84	Z86E0812SEG
	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3086-ND	4.29	3.22	2.39	Z86E0812HEC1866
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3087-ND	4.29	3.22	2.39	Z86E0812HEC1903
	125	14	XTAL/RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-4699-5-ND†◆	3.30	2.48	1.84	Z86E0812SEG1903
	125	14	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-DIP	269-3966-ND◆	6.78	5.09	3.76	Z86E3116PEG
	125	14	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-SOIC	269-1054-ND	6.06	4.55	3.36	Z86E3116SEC
4K	237	24	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3965-ND◆	7.41	5.56	4.11	Z86E3016PSG
	237	24	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-4539-5-ND†◆	7.41	5.56	4.11	Z86E3016SSG
	237	24	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-PLCC	269-1045-ND	7.41	5.56	4.11	Z86E3016VSC
	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3969-ND◆	7.68	5.76	4.26	Z86E3312PSG
	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-1103-ND	6.84	5.13	3.80	Z86E3312SSC
	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-PLCC	269-1104-ND	6.84	5.13	3.80	Z86E3312VSC
	236	32	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3975-ND◆	8.79	6.60	4.89	Z86E4016PSG
	236	32	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-3976-ND◆	8.79	6.60	4.89	Z86E4016VSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3977-ND◆	9.36	7.02	5.20	Z86E4312PSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PQFP	269-1108-ND	10.17	7.63	4.95	Z86E4312FSC
	237	21	XTAL/RC	DC-16MHz	3.5 ~ 5.5	-40 ~ 105	28-SOIC	269-4704-5-ND†◆	10.08	7.56	5.60	Z86E8316SEG
	237	24	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-DIP	269-3964-ND◆	8.13	6.10	4.52	Z86E3016PEG
	237	24	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-SOIC	269-4700-5-ND†◆	8.13	6.10	4.52	Z86E3016SEG
	236	32	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	40-DIP	269-3974-ND◆	9.69	7.27	5.38	Z86E4016PEG
	236	32	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	44-PLCC	269-4702-5-ND†◆	9.69	7.27	5.38	Z86E4016VEG
8K	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3941-ND◆	10.83	8.13	6.01	Z8674312PSG
16K	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3972-ND◆	12.30	9.23	6.84	Z86E3412PSG
	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-4701-5-ND†◆	12.30	9.23	6.84	Z86E3412SSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3980-ND◆	13.83	10.38	7.69	Z86E4412PSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PQFP	269-1109-ND	14.82	11.12	6.59	Z86E4412FSC
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-LQFP	269-4577-ND◆	14.25	10.69	7.91	Z86E4412ASG
	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-LQFP	269-4578-ND◆	22.11	16.59	12.28	Z86E6116ASG
32K	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PQFP	269-1111-ND	29.22	21.92	12.99	Z86E6316FSC
	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-LQFP	269-4579-ND◆	28.05	21.04	15.58	Z86E6316ASG
	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PLCC	269-4703-5-ND†◆	28.05	21.04	15.58	Z86E6316VSG

† Tube ◆ ***RoHS Compliant***

OTP Programming Adapters

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 Accessory Kit (28-DIP, 40-DIP) for Z86CCP01ZEM	269-2001-ND	48.75	Z86CCP00ZAC
44 Pin PLCC Adapter	269-2008-ND	74.83	Z86E4001ZDV
28 Pin SOIC Adapter	269-2010-ND	50.63	Z86E3400ZDS
44 Pin PQFP to 40 Dip Adapter	269-2021-ND	198.00	Z86E2101ZDF
44 Pin PQFP to 40 Dip Adapter	269-2022-ND	118.83	Z86E4001ZDF

(Continued)

eZ80 - The Next Generation

EZ80190AZ050EC AND EZ80190AZ050SC

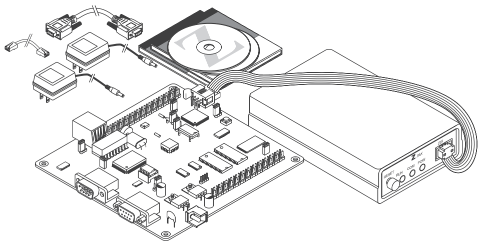

Just as the Z80 revolutionized the semiconductor industry, the next generation eZ80 is revolutionizing the way that communications are happening today. This elegant system-on-a-chip can serve web pages over a TCP/IP network, allowing easy system monitoring and control, effortless processor code updates, and system compatibility. This solution enables any browser with access to your network the ability to control and monitor a network application. The eZ80 executes Z80 code four times faster than traditional Z80s at the same clock speed, and can operate at speeds up to 50MHz. Unlike most 8-bit microprocessors, which can only address 64KB, the eZ80 can address 16MB without a Memory Management unit. The eZ80 Webserver also features an Embedded Internet Software Suite that enables the transmission and reception of HTML form data and the dynamic generation of web pages.

FEATURES: • 50MHz Processor • Multiply and Accumulate Engine • 16MB Linear Addressing • 3.3V Operation • 2 DMA Channels • Universal Zilog Interface (selectable UART, IIC, SPI) • 6 PRTs with Prescalers • 8KB SRAM • 32-Bit GPIO with Interrupt Support • On-Chip Oscillator • Optimized Pipeline Architecture • Zilog Debug Interface

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.
Webserver IC, Extended Temperature	100-LQFP	269-3123-ND	21.18	15.89	11.76	EZ80190AZ050EC
Webserver IC	100-LQFP	269-3124-ND	18.42	13.82	10.23	EZ80190AZ050SC
Webserver IC	100-LQFP	269-3866-ND◆	18.42	13.82	10.23	EZ80190AZ050SG

◆ *RoHS Compliant*

Z8Plus™ Microcontrollers

Employing the experience gained from the industry-standard Z80 and Z8 cores, the Z8Plus offers increased functionality, significantly higher performance, lower power requirements, and greater cost savings over other 8-bit microcontrollers. The Z8Plus is designed to be easy to use, even for designers who have never used a microcontroller before.

With single-cycle execution, powerful I/O capabilities and register-to-register architecture, the Z8Plus offers state-of-the-art flexibility and freedom for any designer in search of a low-cost solution for a variety of microcontroller applications.

The Z8Plus core offers several significant advantages compared to the current Z8 core. Foremost is performance improvement due to a reduced system clock division and a fixed instruction cycle time. The improvement is nearly 50%, depending upon instruction mix. For example, a Z8Plus-based part at 10MHz has performance comparable to a 16MHz part in production today. This, along with significant design improvements, leads to lower power and lower noise operation.

The Z8PE002 and Z8PE003 microcontrollers are the newest members of the popular Z8E001 Z8 Plus 8-bit microcontroller family. New features include voltage brown-out protection and power-on reset. Additionally, the “RESET” pin has been replaced with a general purpose I/O pin and oscillator circuitry to support RC configurations. These new parts are targeted at customers who require a powerful, yet small OTP microcontroller for use in general purpose applications.

EMULATOR/PROGRAMMER

FEATURES: • In-Circuit Program Debug Emulation • Real-Time Emulation • ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9,600 to 57.6 Kbps • Bi-sync Error-Correcting Communications Protocol

SPECIFICATIONS: Operating Temperature: 20°C ±10°C **Power Requirements:** 9.0VDC @ 0.5A Minimum (Typical) **Dimensions:** • Width: 6.75 inches (17.15 cm) • Length: 7.50 inches (19.05 cm) • Height: 0.90 inch (2.30 cm) **Serial Interface:** RS-232C @ 9,600, 19,200 *(default)*, 28,800 or 57,600 Baud

HOST COMPUTER: Minimum Requirements: IBM PC (or 100% Compatible) 386-Based Machine: • 33MHz • 4MB RAM • VGA Video Adapter • Hard Disk Drive (2.5MB Free Space) • 3.5 inch, High-Density (HD) Floppy Disk Drive • RS-232C Com Port • Mouse or Pointing Device • Microsoft Windows 3.1

KIT CONTENTS *(One of Each)*: Z8M001 Emulator Board; • **Cable/Pods:** 18-Pin Emulation Pod Cable; 9-Pin M-F Serial Cable (6 feet) • **Host Software:** Z8 Graphical User Interface (GUI); Zilog Macro Cross Assembler (ZMASM)/Zilog Developer Studio (ZDS) • **Documentation:** Zilog 1999 Technical Library CD ROM, which contains Z8 device data sheets, user manuals, application notes; Z8M001 Emulator User's Manual

Memory Size		I/O Lines	Oscillator Type External	Frequency Range Min/Max	Supply Voltage Range	Operating Temperature (°C)	Package	Required Emulator Tools	Required OTP Programming Tools	Digi-Key Part No.	Price Each			Zilog Part No.
Eprom	Ram										1	25	100	
Z8E00010 Series														
512	32	13	XTAL/LC	DC ~ 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1117-ND	1.80	1.35	1.00	Z8E00010PSC
Z8E00110 Series														
1K	64	13	XTAL/LC	DC ~ 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1121-ND	2.28	1.71	1.26	Z8E00110PSC
1K	64	13	XTAL/LC	DC ~ 10MHz	3.5 ~ 5.5	0 ~ 70	18-SOIC	▲	D, 2	269-1123-ND	2.28	1.71	1.26	Z8E00110SSC
1K	64	13	XTAL/LC	DC ~ 10MHz	3.5 ~ 5.5	0 ~ 70	18-SOIC	▲	D, 2	269-3987-ND◆	2.55	1.92	1.41	Z8E00110SSG
Z8PE002 Series														
512	64	14	XTAL/LC	DC ~ 10MHz	3.0 ~ 5.5	0 ~ 70	20-SSOP	▲	D, 17	269-1132-ND	2.10	1.58	1.16	Z8PE002HZ010SC
512	64	14	XTAL/LC	DC ~ 10MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	▲	D, 17	269-1135-ND	2.28	1.71	1.27	Z8PE002HZ010EC
Z8PE003 Series														
1K	64	14	XTAL/LC	DC ~ 10MHz	3.0 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1136-ND	2.67	2.01	1.49	Z8PE003PZ010SC
1K	64	14	XTAL/LC	DC ~ 10MHz	3.0 ~ 5.5	0 ~ 70	18-SOIC	▲	D, 2	269-1137-ND	2.67	2.01	1.49	Z8PE003SZ010SC
1K	64	14	XTAL/LC	DC ~ 10MHz	3.0 ~ 5.5	0 ~ 70	18-SOIC	▲	D, 2	269-4295-ND◆	3.00	2.25	1.67	Z8PE003SZ010SG
1K	64	14	XTAL/LC	DC ~ 10MHz	3.0 ~ 5.5	0 ~ 70	20-SSOP	▲	D, 17	269-1138-ND	2.82	2.12	1.57	Z8PE003HZ010SC
1K	64	14	XTAL/LC	DC ~ 10MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	▲	D, 2	269-1140-ND	2.94	2.21	1.63	Z8PE003SZ010EC

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
Emulator/Programmer †				
D	Z8 Plus Emulator/Programmer	269-2033-ND	161.33	Z8ICE001ZEM

◆ *RoHS Compliant* ▲ Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, accommodations will have to be made to use the emulator for in-circuit DIP emulation. † For OTP programming adapters, please refer to Z8 Series.

Turnkey Universal Remote Control Kit

The Crimzon RC Bullet™ Reference Design Kits are ideally suited for Universal Remote Control applications.

These kits feature both learning and non-learning models with both three-in-one (Cable/Satellite, DVD/VCR and TV) and six-in-one feature sets (Cable, Satellite, Audio, TV, DVD and VCR) for the North American and European marketplaces.

Built on the Z8-based ZLx16300 and ZLx32300 IR MCU, and competitively priced, the kits give you everything needed to start manufacturing branded universal remote controls today.

269-3380-ND	USA, 3-Function, Non-Learning	**$129.00**
269-3381-ND	European, 3-Function, Non-Learning	**$129.00**
269-3382-ND	USA, 6-Function, Non-Learning	**$129.00**
269-3383-ND	European, 6-Function, Non-Learning	**$129.00**
269-3384-ND	USA, 6-Function, Learning	**$159.00**
269-4665-ND◆	USA, 6-Function, Learning	**$166.40**
269-3385-ND	European, 6-Function, Learning	**$159.00**

◆ *RoHS Compliant*

Thermostat Application Module Kit

Thermostat Application Module provides a flexible platform for training and experimentation on a number of microcontroller and microprocessor devices.

The module contains no processor. It is designed to attach to the eZ80 development platforms, which contain both the processors and the control programs that make the development function.

Features:

• Simple bit-I/O (LEDs, switches, lamp, and fan) • Alphanumeric LCD display via the GPIO interface • Temperature sensor via the I²C interface • EEPROM data storage via the I²C interface • Flash program storage for eZ80 family devices

269-3198-ND **$102.00**

Z86L99 with IR Solutions

In-circuit emulators are interactive, Windows-oriented development tools, providing a real-time environment for emulation and debugging. Provides essential timing and I/O circuitry to simplify user emulation of prototype hardware and software products.

Features:

• Supports up to 32K of ROM • Varies the operating voltage from 3.0V ~ 4.0V • Supports in-circuit emulation on target systems that operate at 3.0V ~ 4.0V • Powers the In-Circuit Emulator (ICE) chip from either the emulator or target board • Supports IR devices that operate at up to 8MHz • Emulates 28-pin DIP and 40-pin DIP • Provides OTP programming for 28-pin DIP and SOIC packages, 40-pin PDIP, 48-pin SSOP • Multi-tasks with other Windows applications while Zilog Developer Studio (ZDS) is running

269-3241-ND Z86L99 In-Circuit Emulator **$877.50**

zilog Microprocessors

Speed (MHz)	Features	Timers	Operating Voltage (V)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.
							1	25	100	
6	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-3004-ND	9.33	7.00	5.19	Z8018006FSC
6	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-3879-ND◆	10.47	7.86	5.81	Z8018006FSG
6	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	64-Dip	269-3881-ND◆	9.90	7.43	5.50	Z8018006PSG
8	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	64-Dip	269-3884-ND◆	10.29	7.72	5.72	Z8018008PSG
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-3012-ND	12.72	9.54	7.07	Z8018008VEC
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-3885-ND◆	14.25	10.69	7.92	Z8018008VEG
8	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	68-PLCC	269-3886-ND◆	10.29	7.72	5.72	Z8018008VSG
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-3887-ND◆	12.63	9.48	7.02	Z8018010FSG
10	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	64-Dip	269-3888-ND◆	14.64	10.98	8.13	Z8018010PEG
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	64-Dip	269-3889-ND◆	12.63	9.48	7.02	Z8018010PSG
10	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-3890-ND◆	14.64	10.98	8.13	Z8018010VEG
6	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-LQFP	269-4572-ND◆	5.52	4.14	3.06	Z84C0006AEG
6	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	40-Dip	269-3892-ND◆	5.52	4.14	3.06	Z84C0006PEG
6	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-PLCC	269-3893-ND◆	5.52	4.14	3.06	Z84C0006VEG
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-LQFP	269-4573-ND◆	5.52	4.14	3.06	Z84C0008AEG
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	40-Dip	269-3895-ND◆	5.52	4.14	3.06	Z84C0008PEG
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-PLCC	269-3896-ND◆	5.52	4.14	3.06	Z84C0008VEG
10	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-LQFP	269-4574-ND◆	5.52	4.14	3.06	Z84C0010AEG
10	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	40-Dip	269-3898-ND◆	5.52	4.14	3.06	Z84C0010PEG
10	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-PLCC	269-3899-ND◆	5.52	4.14	3.06	Z84C0010VEG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-LQFP	269-4575-ND◆	13.02	9.77	7.24	Z84C0020AEG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	44-PLCC	269-3902-ND◆	13.02	9.77	7.24	Z84C0020VEG
8	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	40-Dip	269-3903-ND◆	12.09	9.07	6.72	Z84C1008PEG
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-3098-ND	9.33	7.00	5.19	Z8S18010FSC
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-4296-ND◆	10.47	7.86	5.81	Z8S18010FSG
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	64-Dip	269-4297-ND◆	9.90	7.43	5.50	Z8S18010PSG
10	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	68-PLCC	269-4298-ND◆	9.90	7.43	5.50	Z8S18010VSG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	80-QFP	269-4299-ND◆	16.65	12.49	9.25	Z8S18020FEG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	80-QFP	269-3104-ND	14.88	11.16	8.26	Z8S18020FEC1960
20	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	80-QFP	269-4541-5-ND†◆	13.74	10.31	7.63	Z8S18020FSG
20	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	64-Dip	269-4301-ND◆	13.74	10.31	7.63	Z8S18020PSG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-4303-ND◆	16.65	12.49	9.25	Z8S18020VEG
20	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-4304-ND◆	16.65	12.49	9.25	Z8S18020VEG1960
20	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	68-PLCC	269-4305-ND◆	13.74	10.31	7.63	Z8S18020VSG1960
20	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	68-PLCC	269-3863-ND◆	13.74	10.31	7.63	Z8S18020VSG
33	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-3115-ND	16.32	12.24	9.06	Z8S18033VEC
33	2-UARTs, 2DMAs	2	5	-40°C ~ 105°C	68-PLCC	269-4306-5-ND†◆	18.27	13.71	10.15	Z8S18033VEG
33	2-UARTs, 2DMAs	2	5	0°C ~ 70°C	68-PLCC	269-4307-ND◆	15.18	11.39	8.43	Z8S18033VSG

† Tube ◆ ***RoHS Compliant***

NEW! PSoC® 1/3/5 Evaluation Kits

PSoC is a true programmable embedded system-on-chip integrating configurable analog and digital peripheral functions, memory and a microcontroller on a single chip. And now our breakthrough new PSoC 3 and PSoC 5 architectures extend the world's only programmable embedded system design platform, shattering your design limitations.

Description	Digi-Key Part No.	Price Each	Cypress Part No.
The CY8CKIT-001A PSoC Development Kit provides you a common development platform where you can prototype and evaluate different solutions using any one of the PSoC, PSoC3, or PSoC5 architectures. **Kit includes:** PSoC development board, PSoC3 CY8C38 Family processor module, PSoC CY8C29 Family processor module, MiniProg3 Programmer and Debug tool, USB cable, 12V power supply adapter, Wire pack, Printed documention (Quick Start, Schematic PSoC development board design), and a kit CD	428-3037-ND◆	248.38	CY8CKIT-001A
The PSoC MiniProg3 Program and Debug Kit is an all-in-one programmer for PSoC 1, PSoC 3, and PSoC 5 architectures as well as a debug tool for PSoC 3 and PSoC 5 architectures. **Kit Includes:** MiniProg3, Program/Debug Ribbing Cable, and USB Cable	428-2975-ND◆	88.80	CY8CKIT-002
The PSoC FirstTouch Starter Kit is designed to introduce you to the PSoC programmable system-on-chip design methodology and Cypress' new PSoC 3 architecture. **Kit Includes:** Evaluation Board, Quick Start Guide, Kit CD, Retractable USB A to Mini B cable, Proximity wire (for use as proximity detection antenna), and 9V battery	428-2977-ND	48.89	CY8CKIT-003
The CY8CKIT-006 PSoC 3 LCD Segment Drive Evaluation Kit is aimed at showcasing PSoC's LCD segment drive system. **Kit Includes:** PSoC 3 LCD Segment Drive Evaluation Board, 9V Battery, 12V Wall Wart Power Supply, MiniProg3, USB Cable, Kit Stand, Quick Start Guide, and Resource CD	428-2994-ND◆	148.96	CY8CKIT-006
The CY8CKIT-007 PSoC 3 Analog Voltmeter Demo Kit showcases PSoC's 20-Bit Delta Sigma Analog to Digital Converter. **Kit Includes:** Voltmeter board (with Thermocouple), Resource CD, Mini-hook leads for Voltmeter measurement, Pack for powering the Voltmeter (includes two AA batteries and USB mini-B connector) and Quick Start Guide	428-2995-ND	105.07	CY8CKIT-007
The PSoC CY8C29 Family Processor Module is designed to evaluate and experiment with Cypress' PSoC 1 programmable system-on-chip design methodology and architecture. **Kit Includes:** PSoC CY8C29 Family Processor Module and Kit CD which includes the PSoC Designer™, PSoC Programmer™, and Documentation	428-2978-ND	65.17	CY8CKIT-008
The PSoC CY8C38 Family Processor Module is designed to evaluate and experiment with Cypress' PSoC 3 programmable design methodology and architecture. **Kit Includes:** PSoC CY8C38 Family Processor Module and Kit CD which includes the PSoC Creator™, PSoC Programmer, and Documentation	428-2979-ND	65.17	CY8CKIT-009
CY8CKIT-010 PSoC CY855 Family Processor Module Kit is designed to evaluate and experiment with PSoC 5 programmable system-on-chip design methodology and architecture **Kit Includes:** PSoC CY8C55 Family Processor Module and Kit CD which includes the PSoC Creator, PSoC programmer, and Documentation	428-3038-ND◆	64.84	CY8CKIT-010
CY8CKIT PSoC 5 FirstTouch™ Starter Kit is designed to introduce you to the PSoC programmable system-on-chip design methodology and new PSoC 5 architecture. **Kit Includes:** Evaluation Board, Quick Start Guide, Kit CD, USB A to Mini B cable, Proximity Wire, and 9V battery	428-3039-ND◆	48.88	CY8CKIT-014
The CY8C28 Family Processor Module gives you a practical understanding of PSoC technology **Kit Includes:** PSoC CY8C28 Family Processor Module, Quick Start, Schematic PSoC Development Board Design, and Software CD for PSoC 1	428-3036-ND◆	65.17	CY8CKIT-020
The CY8KIT-029 PSoC LCD Segment Drive Expansion Board Kit (EBK) is based on the PSoC family of devices **Kit Includes:** PSoC LCD Segment Drive Expansion Board, Quick Start Guide, and Kit CD	428-2993-ND◆	59.85	CY8CKIT-029

◆ ***RoHS Compliant***

PSoC® (Programmable System on Chip) Microcontrollers

The Programmable System-on-Chip (PSoC) microcontrollers integrate a microcontroller and the analog and digital components that typically surround it in an embedded system. Easy-to-use development tools enable designers to select the precise peripheral functionality they desire, including analog functions such as amplifiers, ADCs, DACs, filters and comparators and digital functions such as timers, counters, PWMs, SPI and UARTs. The PSoC family's analog features include rail-to-rail inputs, programmable gain amplifiers and up to 14-bit ADCs with exceptionally low noise, input leakage and voltage offset. PSoC devices include up to 32KB of flash memory, 2KB of SRAM, an 8x8 multiplier with 32-bit accumulator, power and sleep monitoring circuits, and hardware I^{2}C USB and CapSense Technology communications.

Specifications: • Operating Voltage Range: 2.4V ~ 5.25V • Temperature Range: -40°C ~ 85°C

Analog Blocks	Digital Blocks	Flash	SRAM	HW Comm Bus	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
Shared	Shared	8K	512	I^{2}C, SPI	27	2.4 ~ 5.25	32-UQFN	428-2944-5-ND§ ***NEW!***	4.26	3.42	3.12	CY8C20424-12LQXI
Shared	Shared	8K	512	I^{2}C, SPI	27	2.4 ~ 5.25	32-UQFN	428-2945-ND ***NEW!***	3.95	3.18	2.90	CY8C20434-12LQXI
4	4	4K	256	I^{2}C	6	2.4 ~ 5.25	8-SOIC	428-1682-ND	2.20	1.78	1.60	CY8C21123-24SXI
8	8	4K	256	I^{2}C, SPI, UART/USART	12	2.4 ~ 5.25	16-UQFN	428-2948-5-ND§ ***NEW!***	2.64	2.13	1.92	CY8C21223-24LGXI
4	4	4K	256	I^{2}C	16	2.4 ~ 5.25	24-QFN	428-1685-ND	2.95	2.38	2.14	CY8C21323-24LFXI
4	4	8K	512	I^{2}C	12	2.4 ~ 5.25	16-SOIC	428-1611-ND	3.95	3.18	2.90	CY8C21234-24SXI
4	4	8K	512	I^{2}C	16	2.4 ~ 5.25	20-SSOP	428-1612-ND	4.26	3.42	3.12	CY8C21334-24PVXI
4	4	8K	512	I^{2}C	28	2.4 ~ 5.25	32-VQFN	428-2061-ND	4.56	3.67	3.35	CY8C21434-24LTXI
4	4	8K	512	I^{2}C	24	2.4 ~ 5.25	28-SSOP	428-1614-ND	4.59	3.69	3.37	CY8C21534-24PVXI
4	4	8K	512	I^{2}C	26	2.4 ~ 5.25	32-VQFN	428-2884-ND ***NEW!***	4.96	3.99	3.63	CY8C21634-24LTXI
6	4	4K	256	I^{2}C	6	2.4 ~ 5.25	8-DIP	428-1602-ND	3.30	2.66	2.42	CY8C24123A-24PXI
6	4	4K	256	I^{2}C	16	2.4 ~ 5.25	20-SSOP	428-1605-ND	3.75	3.02	2.75	CY8C24223A-24PVXI
6	4	4K	256	I^{2}C	24	2.4 ~ 5.25	28-SSOP	428-1608-ND	4.31	3.47	3.16	CY8C24423A-24PVXI
6	4	4K	256	I^{2}C	24	2.4 ~ 5.25	28-SOIC	428-1609-ND	4.31	3.47	3.16	CY8C24423A-24SXI
4	4	8K	256	UART/USART	—	—	28-TSSOP	428-2949-5-ND§ ***NEW!***	3.92	3.15	2.87	CY8C24533-24PVXI
4	4	8K	256	UART/USART	26	3 ~ 5.25	28-SSOP	428-2950-5-ND§ ***NEW!***	4.23	3.40	3.10	CY8C24633-24PVXI
6	4	16K	1K	I^{2}C	50	3 ~ 5.25	56-VQFN	428-2937-ND ***NEW!***	6.88	5.64	5.09	CY8C24794-24LTXI
6	4	16K	1K	I^{2}C	50	3 ~ 5.25	56-VQFN	428-2938-ND ***NEW!***	6.88	5.64	5.09	CY8C24894-24LTXI
6	4	16K	1K	I^{2}C	56	3 ~ 5.25	68-VQFN	428-2965-ND ***NEW!***	8.88	7.28	6.57	CY8C24994-24LTXI
12	8	8K	256	—	16	3 ~ 5.25	20-SSOP	428-1640-ND	5.75	4.63	4.22	CY8C26233-24PVXI
12	8	16K	256	I^{2}C	6	3 ~ 5.25	8-DIP	428-1593-ND	6.16	4.95	4.51	CY8C27143-24PXI
12	8	16K	256	I^{2}C	16	3 ~ 5.25	20-SSOP	428-1594-ND	6.66	5.36	4.88	CY8C27243-24PVXI
12	8	16K	256	I^{2}C	16	3 ~ 5.25	20-SOIC	428-1595-ND	6.66	5.36	4.88	CY8C27243-24SXI
12	8	16K	256	I^{2}C	24	3 ~ 5.25	28-DIP	428-1596-ND	6.50	5.33	4.81	CY8C27443-24PXI
12	8	16K	256	I^{2}C	24	3 ~ 5.25	28-SSOP	428-1597-ND	6.25	5.13	4.63	CY8C27443-24PVXI
12	8	16K	256	I^{2}C	24	3 ~ 5.25	28-SOIC	428-1598-ND	6.25	5.13	4.63	CY8C27443-24SXI
12	8	16K	256	I^{2}C	44	3 ~ 5.25	48-SSOP	428-1600-ND	6.63	5.44	4.91	CY8C27643-24PVXI
12	8	16K	256	I^{2}C	44	3 ~ 5.25	48-VQFN	428-1601-ND	7.68	6.30	5.68	CY8C27643-24LFXI
12	8	16K	256	I^{2}C	44	3 ~ 5.25	48-VQFN	428-2981-ND ***NEW!***	7.68	6.30	5.68	CY8C27643-24LTXI
12	16	32K	2K	I^{2}C	24	3 ~ 5.25	28-DIP	428-1586-ND	9.65	7.92	7.15	CY8C29466-24PXI
12	16	32K	2K	I^{2}C	24	3 ~ 5.25	28-SSOP	428-1587-ND	8.43	6.91	6.24	CY8C29466-24PVXI
12	16	32K	2K	I^{2}C	24	3 ~ 5.25	28-SOIC	428-1588-ND	8.43	6.91	6.24	CY8C29466-24SXI
12	16	32K	2K	I^{2}C	40	3 ~ 5.25	44-LQFP	428-1589-ND	9.38	7.69	6.94	CY8C29566-24AXI
12	16	32K	2K	I^{2}C	44	3 ~ 5.25	28-SSOP	428-1590-ND	8.83	7.24	6.54	CY8C29666-24PVXI
12	16	32K	2K	I^{2}C	64	3 ~ 5.25	48-VQFN	428-2982-ND ***NEW!***	10.08	8.27	7.46	CY8C29666-24LTXI
12	16	32K	2K	I^{2}C	64	3 ~ 5.25	100-LQFP	428-1592-ND	10.75	8.82	7.96	CY8C29866-24AXI
—	—	32K	—	—	—	—	16-COL	428-2952-ND ***NEW!***	9.00	7.38	6.66	CY8CTMG200-16LGXI
—	—	32K	—	—	—	—	24-UQFN	428-2953-ND ***NEW!***	9.25	7.59	6.85	CY8CTMG200-24LQXI
—	—	32K	—	—	—	—	32-UQFN	428-2954-ND ***NEW!***	9.50	7.79	7.03	CY8CTMG200-32LQXI
—	—	32K	—	—	—	—	48-QFN	428-2955-ND ***NEW!***	9.75	8.00	7.22	CY8CTMG200-48LTXI
—	—	16K	—	—	—	—	32-UQFN	428-2971-ND ***NEW!***	9.63	7.90	7.13	CY8CTMG201-32LQXI
—	—	16K	—	—	—	—	48-QFN	428-2972-ND ***NEW!***	9.75	8.00	7.22	CY8CTMG201-48LTXI
—	—	32K	—	—	—	—	16-QFN	428-2973-ND ***NEW!***	4.62	3.72	3.39	CY8CTST200-16LGXI
—	—	32K	—	—	—	—	24-UQFN	428-2956-ND ***NEW!***	4.90	3.94	3.59	CY8CTST200-24LQXI
—	—	32K	—	—	—	—	32-UQFN	428-2957-ND ***NEW!***	5.18	4.17	3.80	CY8CTST200-32LQXI
—	—	32K	—	—	—	—	48-QFN	428-2958-ND ***NEW!***	6.16	4.95	4.51	CY8CTST200-48LTXI
—	—	32K	—	—	—	—	48-SSOP	428-2974-5-ND§ ***NEW!***	6.16	4.95	4.51	CY8CTST200-48PVXI

§ Tube

PowerPSoC® Lighting Microcontrollers and Evaluation Kits

The PowerPSoC family incorporates programmable system-on-chip technology with the best in class power electronics controllers and switching devices to create easy to use power-system-on-chip solutions for lighting applications. PowerPSoC is the first device to combine the power of an embedded controller with integrated high-power peripheral functionality. This includes four internal 32V, 1A rated low-side N-channel MOSFETs, four 32V, 6MHz rated current sense amplifiers with adjustable gain settings, four 2MHz hysteretic controllers that can be configured as either buck, boost, or buck-boost, and a 32V input voltage regulator.

Analog Blocks	Digital Blocks	Channels	Flash	SRAM	HW Comm Bus	I/O	Max. Output Current (A)	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
											1	25	100	
Lighting Microcontrollers														
4	4	2	4K	256	I^{2}C, IrDA, SPI, UART/USART	12	1	3.0 ~ 5.25	16-SOIC	428-2951-5-ND ***NEW!***	3.92	3.15	2.87	CY8CLED02-16SXI
6	4	4	16K	1K	I^{2}C, SPI, UART/USART, USB	56	1	3.0 ~ 5.25	68-VQFN	428-2970-ND ***NEW!***	9.25	7.59	6.85	CY8CLED04-68LTXI
6	8	3	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	1	4.75 ~ 5.25	56-VQFN	428-2924-ND	11.33	9.53	8.76	CY8CLED03D01-56LTXI
6	8	4	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	1	4.75 ~ 5.25	56-VQFN	428-2279-ND	14.41	12.12	11.14	CY8CLED04D01-56LTXI
6	8	4	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	0.5	4.75 ~ 5.25	56-VQFN	428-2280-ND	13.31	11.20	10.29	CY8CLED04D02-56LTXI
6	8	4	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	1	4.75 ~ 5.25	56-VQFN	428-2923-ND	24.00	20.40	18.90	CY8CLED04DOCD1-56LTXI
—	—	3	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	1	4.75 ~ 5.25	56-VQFN	428-2968-ND ***NEW!***	12.13	9.95	8.98	CY8CLED03G01-56LTXI
—	—	4	16K	1K	DALI, DMX512, I^{2}C, IrDA, SPI, UART/USART	14	1	4.75 ~ 5.25	56-VQFN	428-2969-ND ***NEW!***	13.53	11.38	10.46	CY8CLED04G01-56LTXI
Evaluation Kits														
PowerPSoC Lighting Evaluation Kit **Kit Includes:** CY3267 PowerPSoC Main Board, LED Daughter Board, Wall-wart Power Supply, Optical Diffuser, Retractable USB Cable, and Software.										428-2281-ND	199.50/1			CY3267
PowerPSoC Lighting Starter Kit **Kit Includes:** CY3268 PowerPSoC Board, 12V 1A Power Supply, Two Jumper Shunts, and Software										428-2882-ND	66.50/1			CY3268

EZ-Color™ High-Brightness LED Controllers and Development Kit

Cypress' EZ-Color family of devices offers the ideal control solution for High Brightness LED applications requiring intelligent dimming control. EZ-Color devices combine the power and flexibility of PSoC®; with Cypress' PrISM (Precise Illumination Signal Modulation) drive technology providing lighting designers a fully customizable and integrated lighting solution platform. EZ-Color devices support up to 16 independent LED channels with up to 32 bits of resolution per channel, enabling lighting designers the flexibility to choose the LED array size and color quality. EZ-Color's virtually limitless analog and digital customization allow for simple integration of features.

LED Channels	Analog Blocks	Flash	SRAM	Package	Digi-Key Part No.	Price Each			Cypress Part No.	Development Kit
						1	25	100		
High-Brightness LED Controllers										
8	12	16K	256	28-SSOP	428-2892-5-ND ***NEW!***	10.00	8.20	7.40	CY8CLED08-28PVXI	428-2270-ND
8	12	16K	256	48-VQFN	428-1948-ND	11.25	9.23	8.33	CY8CLED08-48LFXI	428-2270-ND
16	12	32K	2K	28-SSOP	428-1950-5-ND	11.75	9.64	8.70	CY8CLED16-28PVXI	428-2270-ND
16	12	32K	2K	48-VQFN	428-2983-ND ***NEW!***	11.88	9.99	9.18	CY8CLED16-48LTXI	—
16	12	32K	2K	48-SSOP	428-1952-5-ND	12.25	10.05	9.07	CY8CLED16-48PVXI	428-2270-ND
Development Kit										
Lighting Starter Demonstration Kit **Kit Includes:** CY3269N Lighting Starter Demonstration Board and 9V Battery					428-2270-ND	33.25/1			CY3269N	—

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PSoC® Evaluation Kits

PSoC is a true programmable embedded system-on-chip integrating configurable analog and digital peripheral functions, memory and a microcontroller on a single chip. And now our breakthrough new PSoC 3 and PSoC 5 architectures extend the world's only programmable embedded system design platform, shattering your design limitations.

Description	Digi-Key Part No.	Price Each	Cypress Part No.
CY3270 PSoC FirstTouch Starter Kit **Starter Kit Includes:** USB FTPC Bridge, FTMF Expansion Card and Software	428-2018-ND	38.90	CY3270
PIR Motion Detection Evaluation Kit **Kit Includes:** PIR Motion Sensor Board, Power Supply, Software, and Design Files.	428-2022-ND	198.84	CY3236A-PIRMOTION
PSoC I2C to USB Bridge Evaluation Kit **Kit Includes:** I2C USB Bridge, I2C Slave Demonstration Board, USB Mini B Cable, and Software CD	428-1910-ND	88.78	CY3240-I2USB
PSoC Express II Evaluation Kit **Kit Includes:** Two PSoC Evaluation boards, MiniProg USB Programmer, Cables, and Software	428-2025-ND	230.81	CY3209-EXPRESSEVK
PSoC with USB Evaluation Kit **Kit Includes:** PSoCEvalUSB Board, LCD Module, MiniProg1 programmer, USB mini cable, Documentation and Software	428-1650-ND	178.35	CY3214-PSOCEVALUSB
The ISSP (In-System Serial Programming) Programmer **Kit Includes:** SSP Programmer, ISSP Software CD-ROM, 6-Foot USB Cable, 2-Foot Programming Cable, and 9V Power Supply	428-1495-ND	505.24	CY3207ISSP
Kit Extension for CY3215-DK **Kit Includes:** enCoRe III Application Board — Includes enCoRe III On-Chip Debugger and solderless breadboard, Jumper wire kit, MiniProg USB Programmer, Standard-A to Mini-B USB cable, 110 ~ 240V Switch Mode Power Supply and Universal power adapter, Three CY7C64215-28PVXC samples, Three CY7C64215-56LFXC samples, Software, and Printed Documents	428-3033-ND◆ ***NEW!***	548.44	CY3664-EXT
Evaluation Kit for PSoC with MiniProg1 **Kit Includes:** Evaluation board with LCD module, MiniProg1 Programming unit, Software, CY8C29466-24PXI Samples, and USB 2.0 Cable	428-1584-ND	138.65	CY3210-PSOCEVAL1
MiniProg1 Demo Board **Kit Includes:** MiniProg Programming Unit, MiniEval Socket Programming and Evaluation Board, Device Samples, Cable, and Software	428-1585-ND	68.83	CY3210-MINIPROG1
MiniProg Demo Board **Kit Includes:** MiniProg Programming Unit, USB Cable, and Software	428-2021-ND	28.93	CY3217
PSoC I2C Port Expander Evaluation Kit **Kit Includes:** I2C Port Expander Demo Board using CY8C9520 Port Expander, USB Cable, and Documentation	428-2023-ND	174.23	CY3242-IOXLITE
In-Circuit Emulation (ICE) Pod Kit for debugging 44TQFP CY8C22545 PSoC Devices **Kit Includes:** One CY8C22545 Emulation Pod, Two 44-pin TQFP Feet, One CY3250-Flex Cable, and Two CY8C22545-24AXI Chip Samples	428-2927-ND ***NEW!***	386.05	CY3250-22545
Replacement In-Circuit Emulation (ICE) Pod Kit for debugging 44TQFP CY8C22545 PSoC Devices **Kit Includes:** CY8C22545 Emulation Pod	428-2926-ND ***NEW!***	318.88	CY3250-22545-POD
Replacement In-Circuit Emulation (ICE) Pod Kit for debugging 28 SOIC CY8C22345/21345 PSoC Devices **Kit Includes:** One CY8C22345 Emulation Pod, Two 28-pin SOIC Feet, One CY3250-FlexCable, and Two CY8C22345-24SXI Chip Samples	428-2928-ND ***NEW!***	386.05	CY3250-22345
In-Circuit Emulation (ICE) Pod Kit for debugging CY8C20536/546/566A CapSense™ PSoC Devices **Kit Includes:** One CY8C20536/546/566A ICE Pod, One Flex Cable, and Two 48-pin SSOP Pod Feet	428-3015-ND◆ ***NEW!***	161.18	CY3250-20566
In-Circuit Emulation (ICE) Pod Kit for debugging QFN CY8C23x33 PSoC Devices **Kit Includes:** One QFN CY8C23533 ICE Pod, One Flex Cable, and Two 32-pin QFN Pod Feet	428-3016-ND◆ ***NEW!***	210.94	CY3250-23X33QFN
In-Circuit Emulation (ICE) Pod Kit **Kit Includes:** CY3253-BLDC Control Main Board, Two Lithium-II Daughter Boards, LCD Module, DC Power Supply, 3-phase BLDC motor, CY3253-BLDC Kit CD-ROM, and Quick Start	428-3017-ND◆ ***NEW!***	365.75	CY3250-24X33
Replacement In-Circuit Emulation (ICE) Pod Kit **Kit Includes:** CY3253-BLDC Control Main Board, Two Lithium-II Daughter Boards, LCD Module, DC Power Supply, 3-phase BLDC motor, CY3253-BLDC Kit CD-ROM, and Quick Start	428-3018-ND◆ ***NEW!***	199.50	CY3250-24X33-POD
In-Circuit Emulation (ICE) Pod Kit for debugging QFN CY8C28XXX PSoC Devices **Kit Includes:** One QFN CY8C286xx ICE Pod, One Flex Cable, and Two 48-pin QFN Pod Feet	428-3019-ND◆ ***NEW!***	335.16	CY3250-286XXQFN
Replacement In-Circuit Emulation (ICE) Pods Kit for debugging QFN CY8C28XXX PSoC Devices **Kit Includes:** Two QFN CY8C286XX ICE Pods	428-3020-ND◆ ***NEW!***	226.10	CY3250-286XXQFN-POD
In-Circuit Emulation (ICE) Pod Kit for debugging Non-QFN CY8C28XXX PSoC Devices **Kit Includes:** One Non-QFN CY8C28XXX ICE Pod, One Flex Cable, Two 28-pin PDIP Pod Feet, and One 28-pin Mask	428-3021-ND◆ ***NEW!***	335.16	CY3250-28XXX
Replacement In-Circuit Emulation (ICE) Pods for debugging Non-QFN CY8C28XXX PSoC Devices **Kit Includes:** Two Non-QFN CY8C28XXX ICE Pods	428-3022-ND◆ ***NEW!***	226.10	CY3250-28XXX-POD
In-Circuit Emulation (ICE) Pod Kit for debugging 48-pin QFN enCoRe V Low Voltage (CY7C60455/56) Devices **Kit Includes:** One 60455Q Pod, One Flex Cable, and Two 48QFN Feet	428-3023-ND◆ ***NEW!***	335.83	CY3250-60455QFN
In-Circuit Emulation (ICE) Pod Kit for debugging 16-pin QFN enCoRe V (CY7C64315/16) Devices **Kit Includes:** One 64315Q Pod, One Flex Cable, and Two 16QFN Feet	428-3024-ND◆ ***NEW!***	339.15	CY3250-64315QFN
In-Circuit Emulation (ICE) Pod Kit for debugging 48-pin QFN enCoRe V (CY7C64355/56) Devices **Kit Includes:** One 64355Q Pod, One Flex Cable, and Two 48QFN Feet	428-3025-ND◆ ***NEW!***	344.98	CY3250-64355QFN
Replacement In-Circuit Emulation (ICE) Pods for debugging 48-pin QFN enCoRe V (CY7C64355/56) Device **Kit Includes:** Two 64355Q Pods	428-3026-ND◆ ***NEW!***	256.61	CY3250-64355QFN-POD
In-Circuit Emulation (ICE) Pod Kit for debugging Non-QFN CY8CLED08 EZ-Color™ HB LED Controllers **Kit Includes:** One CY8CLED08 ICE Pod, One Flex Cable, Two 28-SSOP Pod Feet, Two CY8CLED08-28PVXI, and One 28-pin Mask	428-3027-ND◆ ***NEW!***	365.75	CY3250-LED08
Replacement In-Circuit Emulation (ICE) Pods **Kit Includes:** Two 28-SSOP Pod Feet	428-3028-ND◆ ***NEW!***	199.50	CY3250-LED08-POD
Replacement Flex Cable for CY3250 Pod Kits	428-1866-ND	165.93	CY3250-FLEXCABLE

◆ ***RoHS Compliant***

CY3215-DK Development Kits and Accessories

Description	Digi-Key Part No.	Price Each	Cypress Part No.
PSoC Development Kit **Kit Includes:** ICE-Cube Unit, Emulation Pod for CY8C29466-24PXI, CY8C29466-24PXI Samples, ISSP Cable, MiniEval Socket Programming and Evaluation board, Power Supply European Plug Adapter, and USB 2.0 Cable	428-1583-ND	447.88	CY3215-DK
Emulation Kits			
For Use With: CY8C24x94 QFN Package **Kit Includes:** 1 Flex Cable, 1 Pod, and 2 Pod Feet	428-1867-ND	341.86	CY3250-24X94QFN
For Use With: CY8C27xxx **Kit Includes:** 1 Flex Cable, 1 Pod, and 2 Pod Feet	428-1884-ND	365.75	CY3250-27XXX
For Use With: CY8C29xxx **Kit Includes:** 1 Flex Cable, 1 Pod, and 2 Pod Feet	428-1885-ND	365.75	CY3250-29XXX
Evaluation Pods — RoHS Compliant			
Family: C48C20x34 Allows evaluation of a device family using 28-DIP connector	428-1994-ND	182.98	CY3210-20X34
Family: CY8C24x23 Allows evaluation of a device family using 28-DIP connector	428-1997-ND	133.00	CY3210-24X23
Replacement Foot Kits			
28-SSOP **Kit Includes:** 4 Pod Feet	428-1896-ND	99.75	CY3250-28SSOP-FK
24-QFN **Kit Includes:** 4 Pod Feet	428-1873-ND	262.01	CY3250-24QFN-FK

CapSense Express™

The CapSense Express Family, supported by PSOC Express™ Visual Embedded System Design Tool and the CapSense Express Configuration Tool, is the quickest and easiest to use for touch sensing functionality. The CapSense Express family supports up to 36 general purpose I/Os for buttons, multi-segment sliders, LEDs and other general purpose functions, all configured via I^{2}C registers.

Analog Blocks	Digital Blocks	Flash	SRAM	HW Comm Bus	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
1 CapSense	0	2K	512	I^{2}C	10	2.4 ~ 5.25	16-UQFN	428-2046-ND	2.70	2.18	1.96	CY8C20110-LDX2I
	0	2K	512	I^{2}C	10	2.4 ~ 5.25	16-SOIC	428-2047-5-ND	2.76	2.23	2.01	CY8C20110-SX2I
	0	2K	512	I^{2}C	4	2.4 ~ 5.25	8-SOIC	428-2050-5-ND	2.29	1.85	1.67	CY8C20142-SX1I
	0	2K	512	I^{2}C	6	2.4 ~ 5.25	16-SOIC	428-2052-5-ND	2.48	2.00	1.80	CY8C20160-SX2I
	0	2K	512	I^{2}C	8	2.4 ~ 5.25	16-SOIC	428-2054-5-ND	2.60	2.10	1.89	CY8C20180-SX2I
	0	2K	512	I^{2}C	10	2.4 ~ 5.25	16-SOIC	428-2056-5-ND	2.91	2.35	2.12	CY8C201A0-SX2I
	0	8K	1K	I^{2}C, SPI	13	1.7 ~ 5.5	16-UQFN	428-2941-ND ***NEW!***	3.72	3.00	2.73	CY8C20236-24LKXI
	0	8K	512	I^{2}C, SPI	20	2.4 ~ 5.25	24-UQFN	428-2919-ND ***NEW!***	3.81	3.06	2.79	CY8C20334-12LQXI
	0	8K	1K	I^{2}C, SPI	20	1.7 ~ 5.5	24-UQFN	428-2942-ND ***NEW!***	3.86	3.11	2.83	CY8C20336-24LQXI
	0	16K	2K	I^{2}C, SPI	19	1.7 ~ 5.5	24-UQFN	428-2943-ND ***NEW!***	5.71	4.59	4.19	CY8C20396-24LQXI
	0	8K	1K	I^{2}C, SPI	28	1.7 ~ 5.5	32-UQFN	428-2946-ND ***NEW!***	4.00	3.22	2.94	CY8C20436-24LQXI
	0	32K	2K	I^{2}C, SPI	34	1.7 ~ 5.5	48-SSOP	428-2947-ND ***NEW!***	6.47	5.20	4.74	CY8C20566-24PVXI
	0	32K	2K	I^{2}C, SPI	36	1.7 ~ 5.5	48-VQFN	428-2980-ND ***NEW!***	6.83	5.49	5.01	CY8C20666-24LTXI

Port Expanders

Flash	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
					1	25	100	
3KB EEPROM	28	3.0 ~ 5.25	28-SSOP	428-2015-5-ND	3.92	3.15	2.87	CY8C9520A-24PVXI
11KB EEPROM	48	3.0 ~ 5.25	48-SSOP	428-2016-5-ND	6.25	5.13	4.63	CY8C9540A-24PVXI
27KB EEPROM	100	3.0 ~ 5.25	100-LQFP	428-2017-ND	7.13	5.85	5.28	CY8C9560A-24AXI

CapSense™ Development Kits

The CapSense Family is Cypress's market leading Capacitive Sensing solution that has replaced more than 3 Billion sensors with a Capacitive touch interface over the last many years. The CapSense Family is based on Cypress' Programmable System on Chip (PSoC) platform that provides customers with the flexibility needed to make last minute changes and get to market before the competition.

Description	Digi-Key Part No.	Price Each	Cypress Part No.
CapSense Proximity Detection Demonstration Kit **Kit Includes:** Proximity Detection Demo Board with Antenna, I2C to USB Debugging/Communication Bridge, USB Cable, Software, and Quick Start Guide	428-1909-ND	131.67	CY3235-PROXDET
PSoC CapSense Demo Kit **Kit Includes:** Demonstration Board, User Guide, Documentation and Software CD, and Power Supply	428-1652-ND	87.78	CY3220-FPD
CapSense Evaluation Board Kit **Kit Includes:** CapSense Evaluation Board with CY8C20110-LDX2I, CY3240-I2USB Bridge Board, USB Cable, and Battery	428-2043-ND	98.42	CY3218-CAPEXP1
CapSense Evaluation Board Kit **Kit Includes:** CapSense Evaluation Board with CY8C20142-SX2I, CY3240-I2USB Bridge Board, USB Cable, and Battery	428-2045-ND	120.10	CY3218-CAPEXP3
Evaluation Kit for CapSense CSA **Kit Includes:** Training Board (CY8C20x34), PSoC Designer and Example Project CD, CSA User Module, Mini Programmer Unit, LCD Module, and USB Cable	428-1924-ND	97.52	CY3203A-CAPSENSE
Universal CapSense Controller Kit Quick Start **Kit Includes:** CY3280-20x66 Universal CapSense Controller Board, CY3240-I2USB I2C Bridge Board, CY3210 PSoC MiniProg1 Programmer, CY3280-20x66 Quick Start, CY3280-20x66 Universal CapSense Controller Kit CD, and Retractable USB Cable (A to mini-B)	428-2987-ND◆ ***NEW!***	253.37	CY3280-20X66
Universal CapSense Radial Slider Module Kit Quick Start **Kit Includes:** CY3280-SRM Universal CapSense Module Board, CY3280-SRM Universal CapSense Module Board CD/DVD, and CY3280-SRM Quick Start	428-2988-ND◆ ***NEW!***	98.78	CY3280-SRM
Universal CapSense Linear Slider Module Kit Quick Start **Kit Includes:** CY3280-SLM Universal CapSense Module Board, CY3280-SLM Universal CapSense Module Board CD/DVD and CY3280-SLM Quick Start	428-2989-ND◆ ***NEW!***	98.78	CY3280-SLM
Universal CapSense Simple Button Module Kit Quick Start **Kit Includes:** CY3280-BSM Universal CapSense Module Board, CY3280-BSM Universal CapSense Module Board CD/DVD and CY3280-BSM Quick Start	428-2990-ND◆ ***NEW!***	98.78	CY3280-BSM
Universal CapSense Matrix Button Module Kit Quick Start **Kit Includes:** CY3280-BMM Universal CapSense Module Board, CY3280-BMM Universal CapSense Module Board CD/DVD and CY3280-BMM Quick Start	428-2991-ND◆ ***NEW!***	98.78	CY3280-BMM
Universal CapSense Prototyping Module Kit Quick Start **Kit Includes:** CY3280-BBM Universal CapSense Prototyping Module, CY3280-BBM Universal CapSense Prototyping Module Kit CD and CY3280-BBM Quick Start Booklet	428-2992-ND◆ ***NEW!***	48.88	CY3280-BBM
Universal CapSense Controller Development Kit Quick Start **Kit Includes:** CY3280-22X45 Universal CapSense Controller Board, CY3280-22X45 Universal CapSense Controller Board CD, CY3240-I2CUSB Board, CY3210-MiniProg1 Programmer, DC power supply, and printed documents	428-3029-ND◆ ***NEW!***	197.11	CY3280-22X45
Universal CapSense Controller Board **Kit Includes:** CY3280-24x94 Universal CapSense Controller Board, CY3240-I2USB Bridge Board, CY3210 PSoC MiniProg1 Programmer, CY3280-24x94 Quick Start, CY3280-24X94 Universal CapSense Controller CD, PSoC Designer 4.0 and PSoC Programmer CD, PSoC Express 3.0 Installation CD, and Retractable USB Cable (A to mini-B)	428-3030-ND◆ ***NEW!***	278.13	CY3280-24X94
CapSensePlus Module Development Kit Quick Start **Kit Includes**: CY3280-CPM1 Demo Board, Kit CD, and Kit Quick Start	428-3031-ND◆ ***NEW!***	97.76	CY3280-CPM1

◆ RoHS Compliant

NEW! Powerline Communication Evaluation Kits

Cypress' Powerline Communication (PLC) solution enables implementation of reliable communication over AC and DC Powerlines. **Features:** • Integrated Powerline FSK PHY modem, network protocol, and complete coupling circuitry • Supports bidirectional half-duplex communication • PSoC Programmability **Applications:** • Lighting and industrial control • Home automation • Automatic meter reading • Smart energy management FCC, CENELEC, and UL certified evaluation board designs

Description	Digi-Key Part No.	Price Each	Cypress Part No.
Low Voltage Programmable Powerline Communication Development Kit with EZ-Color™ **Kit Includes:** CY3277 PLC LV Development Board, CY3277 Quick Start Guide, CD-ROM, 12V DC power supply, MiniProg1, 25 Jumper wires, LCD module, LED daughter card, USB-I2C Bridge, Retractable USB cable, Daisy chain cable, and 2" metal standoffs	428-3003-ND	528.01	CY3277
High Voltage Programmable Powerline Communication Development Kit with EZ-Color **Kit Includes:** CY3276 Quick Start Guide, CY3276 PLC HV Development Board, CD-ROM, AC Power Cable, MiniProg1, 25 Jumper wires, LCD module, LED daughter card, 12V DC Supply, USB-I2C Bridge, Retractable USB cable, and 2" metal standoffs	428-3004-ND	597.17	CY3276
Low Voltage Programmable Powerline Communication Development Kit **Kit Includes:** PLC Control Panel, 12V~24V AC/DC, CY8CPLC20-OCD, User configurable LEDs, 8-bit DIP switch, RJ45 connector, RS232 COM, I2C header, and ISSP header	428-3005-ND	228.76	CY3275
High Voltage Programmable Powerline Communication Development Kit **Kit Includes:** PLC Control Panel, 90V~264V AC, CY8CPLC20-OCD, User configurable LEDs, 8-bit DIP switch, RJ45 connector, RS232 COM, I2C header, and ISSP header	428-3006-ND	248.71	CY3274
Low Voltage Powerline Communication Evaluation Kit **Kit Includes:** 12V~24V AC/DC, LED status indicators, Five-position DIP switches, and Integrated Powerline Modem PHY	428-3007-ND	129.01	CY3273
High Voltage Powerline Communication Evaluation Kit **Kit Includes:** PLC Control Panel, 110V~240V AC, LED status indicators, Five-position DIP switches, On board surge protection and isolation circuit, and Integrated Powerline Modem PHY	428-3008-ND	148.96	CY3272

USB Controllers

Universal Serial Bus (USB) is the most common connectivity solution for PCs and consumer devices today. Plug and play, easy to use and simple to implement, USB continues to gain traction in new applications and market segments.

USB Low-Speed Peripherals

The low-speed USB peripheral family offers a broad range of devices that support applications requiring a signaling rate of 1.5Mbps. As an industry leader, Cypress offers powerful, flexible and integrated solutions for a wide range of USB applications. No other USB supplier makes it so easy and inexpensive to design and build USB applications. The low-speed USB controllers feature the industry's smallest 8-bit RISC core that contains RAM, EPROM/Flash, USB Logic and USB transceiver.

This family has three generations of products:

M8™ Series: The world's first integrated low-speed USB microcontroller.

enCoRe™: Enhanced Component Reduction technology reduces system cost through external component integration.

enCoRe™II: The second generation of Enhanced Component Reduction technology, adding flash memory and more integration.

enCoRe™III: Allows for customized peripheral configurations specific to your application, such as upgrading legacy serial interfaces to full-feature USB bridges.

Memory Size	Memory Architecture	Core	Number of Endpoints	Number of I/O	Package	Digi-Key Part No.	Price Each			Cypress Part No.
							1	25	100	
M8™ Series										
4K	EPROM	M8A (8-bit RISC)	2	16	24-QSOP	428-1314-ND	3.77	3.04	2.77	CY7C63101A-QC
4K	EPROM	M8A (8-bit RISC)	2	16	24-QSOP	428-1618-ND◆	3.77	3.04	2.77	CY7C63101A-QXC
8K	EPROM	M8B (8-bit RISC)	3	32	48-SSOP	428-1319-ND	4.13	3.33	3.03	CY7C63413-PVC
8K	EPROM	M8B (8-bit RISC)	3	32	48-SSOP	428-1852-ND◆	4.79	3.85	3.51	CY7C63413C-PVXC
enCoRe™										
3K	EPROM	M8B (8-bit RISC)	2	10	18-SOIC	428-1719-5-ND◆§	3.70	2.97	2.71	CY7C63231A-SXC
8K	EPROM	M8B (8-bit RISC)	3	10 + 1	18-DIP	428-1854-ND◆	4.03	3.24	2.96	CY7C63723C-PXC
8K	EPROM	M8B (8-bit RISC)	3	10 + 1	18-SOIC	428-1323-ND	3.48	2.80	2.55	CY7C63723-SC
8K	EPROM	M8B (8-bit RISC)	3	10 + 1	18-SOIC	428-1855-ND◆	4.03	3.24	2.96	CY7C63723C-SXC
8K	EPROM	M8B (8-bit RISC)	3	16 + 1	24-DIP	428-1856-ND◆	4.34	3.49	3.18	CY7C63743C-PXC
8K	EPROM	M8B (8-bit RISC)	3	16 + 1	24-SOIC	428-1622-ND◆	3.75	3.02	2.75	CY7C63743-SXC
8K	EPROM	M8B (8-bit RISC)	3	16 + 1	24-SOIC	428-1857-ND◆	4.34	3.49	3.18	CY7C63743C-SXC
enCoRe™II — RoHS Compliant										
3K	Flash	M8C	3	4	16-SOIC	428-2913-5-ND§ ***NEW!***	3.14	2.52	2.30	CY7C63310-SXC
4K	Flash	M8C (8-bit RISC)	3	13	16-SOIC	428-2256-5-ND§	3.47	2.79	2.55	CY7C63801-SXC
8K	Flash	M8C	3	4	16-SOIC	428-2914-5-ND§ ***NEW!***	3.25	2.61	2.38	CY7C63803-SXC
8K	Flash	M8C	3	4	18-SOIC	428-2915-5-ND§ ***NEW!***	3.64	2.93	2.67	CY7C63813-SXC
NEW! enCoRe™III — RoHS Compliant NEW!										
16K	Flash	M8C	5	22	28-SSOP	428-2916-5-ND§	5.15	4.14	3.78	CY7C64215-28PVXC

◆ ***RoHS Compliant*** § Tube

USB Full-Speed Peripherals

Cypress offers a variety of performance levels and feature sets among its full-speed product families for applications that require USB signal rates of up to 12 Mbps. These offerings include unique architectures that give developers the freedom and flexibility to choose the solution that best fits their needs.

EZ-USB FX1™: Faster, extended technology for ultra high-performance

enCoRe™V: With a Flash size of up to 32K, this is a highly integrated, cost-effective full-speed USB microcontroller solution ideal for applications that require a full-speed USB interface for outstanding performance such as a wired gaming mouse or high-end wireless dongles.

Memory Size	Memory Architecture	Number of I/O	Core	Package	Digi-Key Part No.	Price Each			Cypress Part No.
						1	25	100	
EZ-USB FX1™									
8K	EPROM	19	M8 (8-bit RISC)	28-SOIC	428-1634-ND	5.43	4.46	4.02	CY7C64013A-SXC
8K	EPROM	19	M8 (8-bit RISC)	28-SOIC	428-1847-ND	6.30	5.17	4.67	CY7C64013C-SXC
16K	RAM	24	Enhanced 8051	56-VQFN	428-2929-ND ***NEW!***	8.65	7.10	6.41	CY7C64713-56LTXC
16K	RAM	40	Enhanced 8051	100-LQFP	428-1679-ND	9.55	7.84	7.07	CY7C64713-100AXC
16K	RAM	40	Enhanced 8051	128-LQFP	428-1678-ND	10.13	8.31	7.50	CY7C64713-128AXC
NEW! enCoRe™V NEW!									
16K	Flash	11	M8C	16-UQFN	428-2885-ND	4.03	3.24	2.96	CY7C64315-16LKXC
32K	Flash	11	M8C	16-UQFN	428-2886-ND	4.70	3.78	3.45	CY7C64316-16LKXC
8K	Flash	25	M8C	32-UQFN	428-2964-ND	4.03	3.24	2.96	CY7C64343-32LQXC
16K	Flash	25	M8C	32-UQFN	428-2887-ND	4.37	3.51	3.20	CY7C64345-32LQXC
16K	Flash	36	M8C	48-VQFN	428-2889-ND	5.04	4.05	3.69	CY7C64355-48LTXC
32K	Flash	36	M8C	48-VQFN	428-2890-ND	5.71	4.59	4.19	CY7C64356-48LTXC

USB High-Speed Peripherals

USB 2.0 extends the speed of PC peripheral connectivity up to 480Mbps. USB 2.0 is forward and backward compatible with USB 1.1 and allows customers to utilize USB 1.1 devices they currently own. USB 2.0 speeds have enabled development of high-performance PC peripheral applications and portable consumer devices.

General Purpose Solutions:

EZ-USB SX2™: Intelligent Serial Interface Engine (SIE) automatically handles the low-level USB protocol, shortening the USB learning curve.

EZ-USB FX2LP™: Low Power (Bus Powered) Programmable MCU for bus power peripherals, pin-for-pin compatible with EZ-USB FX2™.

External Mass Storage Solutions:

EZ-USB AT2LP™: Fixed-function USB-to-PATA Bridge for external HDD and optical drivers

Memory Size	Memory Architecture	Core	Package	Digi-Key Part No.	Price Each			Cypress Part No.
					1	25	100	
EZ-USB SX2™ USB Interface								
—	—	—	56-VQFN	428-2932-ND ***NEW!***	11.73	9.62	8.68	CY7C68001-56LTXC
—	—	—	56-SSOP	428-1864-ND	11.05	9.07	8.18	CY7C68001-56PVXC
EZ-USB FX2LP™ USB Microcontroller USB Peripheral Controller								
16K	RAM	Enhanced 8051	56-VQFN	428-2933-ND ***NEW!***	11.40	9.35	8.44	CY7C68013A-56LTXC
16K	RAM	Enhanced 8051	100-LQFP	428-1667-ND	14.01	11.79	10.83	CY7C68013A-100AXC
16K	RAM	Enhanced 8051	100-LQFP	428-2263-ND	25.48	21.66	20.07	CY7C68013A-100AXI
16K	RAM	Enhanced 8051	128-LQFP	428-1668-ND	14.85	12.49	11.48	CY7C68013A-128AXC
16K	RAM	Enhanced 8051	128-LQFP	428-1943-ND	27.00	22.95	21.27	CY7C68013A-128AXI
16K	RAM	Enhanced 8051	56-VFBGA	428-2264-ND	16.59	13.95	12.82	CY7C68013A-56BAXC
16K	RAM	Enhanced 8051	56-SSOP	428-1627-ND	12.67	10.66	9.80	CY7C68013A-56PVXC
16K	RAM	Enhanced 8051	56-SSOP	428-1944-5-ND§	23.04	19.59	18.15	CY7C68013A-56PVXI
16K	RAM	Enhanced 8051	56-VQFN	428-2934-ND ***NEW!***	15.27	12.84	11.80	CY7C68014A-56LTXC
16K	RAM	Enhanced 8051	100-LQFP	428-1670-ND	16.13	13.57	12.47	CY7C68014A-100AXC
16K	RAM	Enhanced 8051	128-LQFP	428-1671-ND	17.09	14.38	13.21	CY7C68014A-128AXC
16K	RAM	Enhanced 8051	56-SSOP	428-1673-ND	14.59	12.27	11.28	CY7C68014A-56PVXC
16K	RAM	Enhanced 8051	56-VQFN	428-2935-ND ***NEW!***	13.90	11.70	10.75	CY7C68015A-56LTXC
16K	RAM	Enhanced 8051	56-VQFN	428-2936-ND ***NEW!***	15.99	13.45	12.36	CY7C68016A-56LTXC
EZ-USB AT2LP™ USB 2.0 to ATA/ATAPI Bridge								
—	Single Port RAM	—	56-SSOP	428-2266-5-ND§	6.50	5.33	4.81	CY7C68300C-56PVXC
—	Single Port RAM	—	100-LQFP	428-2267-ND	12.00	9.84	8.88	CY7C68320C-100AXC
—	Single Port RAM	—	56-VQFN	428-2268-ND	10.50	8.61	7.77	CY7C68320C-56LFXC

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USB Hosts

For the embedded host market, Cypress offers high-performance USB host/peripheral controllers for use in embedded applications such as: PDAs, Set-top boxes, MP3 Players, Personal Media Players and Cell phones. These dual-role devices switch to host mode when connected to a peripheral and to peripheral mode when connected to a PC. In addition, the embedded host/peripheral controllers support both full- and low-speed USB devices in either mode. **EZ-Host™:** Microprocessor-based 4-port embedded host/peripheral controller. **SL811:** Serial Interface Engine (SIE) with 8-bit microprocessor interface.

Memory Architecture	Memory Size	Number of Endpoints	Number of I/O	Package	Digi-Key Part No.	Price Each			Cypress Part No.
						1	25	100	
EZ-Host™									
ROM/RAM	16K	8 in periph. mode	32	100-LQFP	428-1865-ND	15.62	13.14	12.07	CY7C67300-100AXI
SL811									
SRAM	256 Bytes	16 in host mode	8	48-LQFP	428-1721-ND	12.25	10.31	9.47	SL811HST-AXC

USB Hubs

Cypress offers a broad range of full-speed and high-speed hub controllers perfect for all USB-based applications.

The Cypress hub controller portfolio includes both single-TT and multi-TT controllers ranging from 2 ~ 4 ports.

The Low-Power (LP) family provides industry leading products perfect for bus-powered applications.

Hub Ports	Number of I/O	Memory Architecture	Memory Size	Core	Package	Digi-Key Part No.	Price Each			Cypress Part No.
							1	25	100	
USB Full Speed Hub										
4	11	EPROM	8K	M8 (8-bit RISC)	28-SOIC	428-2259-5-ND§	6.27	5.04	4.60	CY7C65113C-SXC
4	29	EPROM	8K	M8 (8-bit RISC)	48-SSOP	428-2261-5-ND§	7.18	5.89	5.31	CY7C66013C-PVXC
NEW! EZ-USB HX2LP™ NEW!										
2	8	—	—	—	56-VQFN	428-2930-ND	7.48	6.13	5.54	CY7C65620-56LTXC
4	8	—	—	—	56-VQFN	428-3009-ND	8.75	7.18	6.48	CY7C65630-56LTXC
NEW! USB TetraHub™ NEW!										
4	8	—	—	—	56-VQFN	428-2931-ND	11.90	9.76	8.81	CY7C65640A-LTXC

§ Tube

NEW! Wireless Microcontrollers and Network Processor

Cypress offers a line of low-power, 8-bit microcontrollers that are ideal for wireless HID applications. The devices feature the industry's smallest 8-bit RISC core with flash memory and a variety of internal peripheral functions.

RAM Size	Memory Size	Memory Architecture	Core	Number of I/O	Voltage	Package	Digi-Key Part No.	Price Each			Cypress Part No.
								1	25	100	
512B	8K	Flash	Pipeline	28	2.4 ~ 3.6	32-VQFN	428-2939-ND	3.64	2.93	2.67	CY7C60323-LTXC
512B	8K	Flash	Pipeline	26	2.4 ~ 3.6	32-VQFN	428-2940-ND	3.64	2.93	2.67	CY7C60333-LTXC
1K	8K	Flash	Pipeline	13	1.71 ~ 3.6	16-UQFN	428-2963-ND	3.08	2.48	2.26	CY7C60413-16LKXC
512B	2K	Flash	Pipeline	19	4.5 ~ 5.5	64-LQFP	428-2912-ND	6.73	5.52	4.98	CY7C53150-20AXI

CYPRESS
PERFORM

USB Controller Development Kits

Description	Digi-Key Part No.	Price Each	Cypress Part No.
The CY3684 development kit for the EZ-USB FX2LP™ family provides complete hardware and software solutions for accelerating the firmware and device driver development for all of the products in the family. **Kit Includes:** EZ-USB development board, Peripheral board for prototyping, USB cable, and RS232 9-pin to 9-pin cable	428-1677-ND	472.50	CY3684
The SL11R is a low cost, full speed Universal Serial Bus (USB) RISC based Controller. **Kit Includes:** HW reference design for SL11R evaluation board, Assembler/Debugger and built in emulator, Application notes, BIOS ROM information, System Software demo program source code, Generic WDM mini-port driver for WIN98/2000-object code, and 2 sample chips Devices Supported: SL11R-IDE	428-1344-ND	414.38	SL11R-DK
WirelessUSB LP RDK (CY4636) provides an exemplary implementation of a 2:1, bidirectional Wireless desktop keyboard and mouse to single wireless receiver. **Kit Includes:** CYRF6936 WirelessUSB LS transceiver, Optical Sensor Mouse, WirelessUSB keyboard, Batteries, and CD	428-1858-ND	405.00	CY4636
The CY3656-EXT has been designed to accelerate your development of a Wireless Human Interface Device using the Wireless enCoRe™ II family of products. **Kit Includes:** Application Board, MiniProg1-in-system programmer, CY7C60323/33 Samples, PSoC Designer Software CD-ROM, Data Sheet, Getting started manual, BOM, Schematics, Gerber Files, and 12V power supply	428-3032-ND◆ ***NEW!***	331.17	CY3656-EXT

◆ ***RoHS Compliant***

HOTLink™ and HOTLink II™

RoHS COMPLIANT

The **CY7B923 HOTLink Transmitter and CY7B933 HOTLink Receiver** are point-to-point communications building blocks that transfer data over high-speed serial links (fiber, coax, and twisted pair). Standard HOTLink data rates range from 160 ~ 330 Mbits/second. Higher speed HOTLink is also available for high-speed applications (160 ~ 400 Mbits/second), as well as for those low-cost applications HOTLink-155 (150 ~ 160 Mbits/second operations).

Features: • Fibre-Channel compliant • IBM ESCON compliant • DVB-ASI compliant • ATM compliant • B/10B coded or 10-bit unencoded • Standard HOTLink: 160–330Mbps • High-speed HOTLink 160–400 Mbps for high-speed applications • Low-speed HOTLink: 150 ~ 160Mbps for low-cost fiber

Applications: • TTL synchronous I/O • No external phase-locked-loop (PLL) components • Triple PECL 100K serial outputs • Dual PECL 100K serial inputs • Low power: 350mW (Tx), 650mW (Rx) • Compatible with fiber optic modules, coaxial cable, and twisted pair media • Built-In Self-Test • Single +5V supply • 28-pin SOIC/PLCC/LCC • 0.8 BiCMOS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
H7OTLink						
Transmitter	28-PLCC	428-1706-5-ND	57.32	50.58	48.06	CY7B923-JXC
Transmitter	28-SOIC	428-1707-5-ND	57.32	50.58	48.06	CY7B923-SXC
Transmitter	28-PLCC	428-2905-5-ND ***NEW!***	66.30	58.50	55.58	CY7B9234-270JXC
Receiver	28-PLCC	428-1708-5-ND	57.32	50.58	48.06	CY7B933-JXC
Receiver	28-SOIC	428-1709-5-ND	57.32	50.58	48.06	CY7B933-SXC
Receiver	28-PLCC	428-2906-5-ND ***NEW!***	80.45	71.65	67.88	CY7B933-400JXC
Receiver	28-PLCC	428-2908-5-ND ***NEW!***	66.30	58.50	55.58	CY7B9334-270JXC
NEW! HOTLink II NEW!						
Transceiver	100-LBGA	428-2920-ND	39.96	34.56	32.40	CYP15G0101DXB-BBXC
Transceiver	100-LBGA	428-2921-ND	46.62	40.32	37.80	CYV15G0101DXB-BBXC
Transceiver	256-LBGA	428-2922-ND	125.05	112.75	109.06	CYV15G0404DXB-BGXC

CPLDs

RoHS COMPLIANT

Cypress offers a wide range of Programmable Logic Devices From PALs with 10 macrocells and 200 gates up to CPLDs with 3072 macrocells and 200,000 gates. Cypress also provides voltages ranging from 2.5V up to the typical 5.0V.

The Ultra37000™ family of CMOS CPLDs provides a range of high-density programmable logic solutions with unparalleled system performance. The Ultra37000 family is designed to bring the flexibility, ease of use, and performance of the 22V10 to high-density CPLDs. The architecture is based on a number of logic blocks that are connected by a Programmable Inter-connect Matrix (PIM). Each logic block features its own product term array, product term allocator, and 16 macrocells. The PIM distributes signals from the logic block outputs and all input pins to the logic block inputs. All of the Ultra37000 devices are electrically erasable and In-System Reprogrammable (ISR).

The Delta39K™ ISR™ CPLD Family based on a 0.18μm, six-layer metal CMOS logic process, offers a wide range of high-density solutions at unparalleled system performance. The Delta39K family is designed to combine the high speed, predictable timing, and ease of use of CPLDs with the high densities and low power of FPGAs. With devices ranging from 15,000 to 200,000 usable gates, the family features devices ten times the size of previously available CPLDs. Even at these large densities, the Delta39K family is fast enough to implement a fully synthesizable 64-bit, 66-MHz PCI core.

Voltage	Memory Type	Tpd (ns)	Macrocells	Option Power	I/O	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
ULTRA37000™ CPLDs											
3.3	Flash	8.5	64	Low Power	37	44-LQFP	428-1937-ND	12.00	9.84	8.88	CY37064VP44-100AXC
5.0	Flash	6	32	Low Power	37	44-LQFP	428-2901-ND ***NEW!***	8.70	7.14	6.44	CY37032P44-125AXC
	Flash	6	64	Low Power	37	44-PLCC	428-2902-5-ND ***NEW!***	10.95	8.98	8.11	CY37064P44-125JXC
	Flash	6	64	Low Power	37	44-LQFP	428-1723-ND	12.00	9.84	8.88	CY37064P44-125AXC
	Flash	6	64	Low Power	69	100-LQFP	428-1722-ND	15.58	13.10	12.04	CY37064P100-125AXC
	Flash	6	64	Low Power	69	100-LQFP	428-1936-ND	17.03	14.32	13.16	CY37064P100-125AXI
	Flash	6.5	128	Low Power	69	100-LQFP	428-2903-ND ***NEW!***	21.38	17.99	16.53	CY37128P100-125AXC
	Flash	7.5	256	Low Power	133	160-LQFP	428-1725-ND	47.95	41.48	38.88	CY37256P160-125AXC
DELTA39K™ ISR™ CPLDs											
2.5 ~ 3.3	Flash	7.2	512	Low Power	136	208-BQFP	428-1939-ND	48.51	42.81	40.67	CY39030V208-125NTXC

TOSHIBA
Leading Innovation >>>

Microcontrollers

Toshiba Microcontrollers feature low-power consumption and low voltage operation.

The on-chip peripherals options include LCD, VFT and LED display drivers, A/D, PWM and UARTS.

Toshiba's ARM9™ core meets various needs of customers such as high-speed processing and integrated development environment. It is capable of operating up to 200MHz and incorporating a 16-Kbyte instruction cache, 16-Kbyte data cache, LCD controller and high-speed USB device controller.

Cortex-M3™ is a high-performance, low-power general-purpose microcontroller with a large Flash memory, real time clock, 10-bit A/D converter, 3-channel SIO/UART. These features make the Cortex-M3 well suited for use in consumer, industrial, security system and low power applications.

Core	Memory Size EPROM	RAM	I/O	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	10	25	100	Toshiba Part No.
TX19A	2MB	64KB	209	2.7 ~ 3.6	281-FBGA	TMP19A64F20AXBG-ND◆	46.25	—	40.00	37.50	TMP19A64F20AXBG
870/C	32K	2K	39	1.8 ~ 3.6	64-QFP	TMP86FM29FG-ND◆	6.97	—	5.60	5.11	TMP86FM29FG
870/C	32K	2K	56	1.8 ~ 3.6	64-QFP	TMP86FM48FG-ND◆	10.00	—	8.20	7.40	TMP86FM48FG
870/C	32K	2K	56	1.8 ~ 3.6	64-LQFP	TMP86FM48UG-ND◆	9.88	—	8.10	7.31	TMP86FM48UG
870/C	8K	256	24	2.7 ~ 5.5	30-SSOP	TMP86F808DMGEY-ND◆	5.40	—	4.32	3.36	TMP86F808DMG(EY)
870/C	16K	512	26	4.5 ~ 5.5	32-SDIP	TMP86FH09NGZM-ND◆	3.16	—	2.55	2.32	TMP86FH09NG(ZM)
870/C	60K	1K	55	2.7 ~ 5.5	80-LQFP	TMP86FS27FG-ND◆	11.85	—	9.72	8.77	TMP86FS27FG
870/C	60K	2K	62	2.7 ~ 5.5	80-QFP	TMP86FS28FGTZ-ND◆	6.33	—	5.19	4.69	TMP86FS28FG(TZ)
870/C	60K	2KB	56	2.7 ~ 5.5	60-LQFP	TMP86FS49AUGJZ-ND◆	6.50	—	5.33	4.81	TMP86FS49AUG(JZ)
870/C	60K	2KB	91	2.7 ~ 5.5	100-QFP	TMP86FS64FGTZ-ND◆	6.90	—	5.55	5.05	TMP86FS64FG(TZ)
TLCS-870/C	16K	512	32	1.8 ~ 5.5	44-LQFP	TMP86PH22UGJZ-ND◆	5.46	—	4.39	4.00	TMP86PH22UG(JZ)
900/L1	256K	16KB	81	2.4 ~ 3.6	100-LQFP	TMP91FY42FGJZ-ND◆	13.49	—	11.35	10.43	TMP91FY42FG(JZ)
900/L1	128K	8KB	83	2.4 ~ 3.6	100-LQFP	TMP91FW60FGBJZ-ND◆	9.33	—	7.65	6.91	TMP91FW60FG(B,JZ)
ARM9	16KB	56KB	108	1.8 ~ 3.6	361-FBGA	TMPA910CRAXBG-ND◆	15.40	14.00	—	11.90	TMPA910CRAXBG
Cortex M3	512K	32K	79	2.7 ~ 3.6	100-LQFP	TMPM330FDFG-ND◆ ***NEW!***	5.20	—	4.16	3.51	TMPM330FDFG
900/H1	8K	288KB	136	2.4 ~ 3.6	228-FBGA	TMP92CZ26AXBG-ND◆	13.20	—	11.10	10.20	TMP92CZ26AXBG
86FM29 Starter Kit for TMP86FM29FG						BMSKTOPASFMA-ND	110.40	—	—	—	BMSKTOPASFM29(AND)
86FH47 Starter Kit						BMSKTOPASFM47AND-ND	110.40	—	—	—	BMSKTOPASFM47(AND)
86FM48 Starter Kit for TMP86FM48UG						BMSKTOPASFM48AND-ND	110.40	—	—	—	BMSKTOPASFM48(AND)
Starter Kit for TMPA900CMXBG						BMSKTOPASA900(DCE)-ND◆ ***NEW!***	544.50	—	—	—	BMSKTOPASA900(DCE)

◆ ***RoHS Compliant***

Microcontrollers 8-Bit 8051 Compatible

The 8051 microcontroller family remain one of the most popular processors in the world. Its ease of use and relatively high performance make it ideal for many applications, including portable and handheld products. The introduction of a line of high-performance derivatives has many positive implications for improving the power efficiency of 8051-based designs.
First, the use of a high-speed 8051 microcontroller can significantly improve power efficiency. A high performance CPU allows the processor clock to be slowed, resulting in the same level of performance at less power. Alternatively, the performance of an existing system can be increased without increasing power consumption. Second, a device which incorporates all needed peripherals should be selected if possible. If extra data memory is required, a device such as the DS87C520 should be used, which incorporates 1 kilobyte of internal MOVX SRAM. One of the strengths of the 8051 product family is the wide variety of on-chip peripherals. Features such as watchdog timers, additional UARTs, and precision reset circuits are available on high-speed microcontrollers.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	16-Bit Timers	Watchdog Timer	Power Fail Reset and Interrupt	Power Management Mode	Supply Voltage (V)	Features	Speed (MHz)	Package	Digi-Key Part No.	Price Each	
												1	25
128kB Flash	64kB	1	2	Yes	Yes	Yes	4.75 ~ 5.25	8051 Compatible	16	80-QFP	DS5000FP-16+-ND ***NEW!***	13.75	13.07
	64kB	1	2	Yes	Yes	Yes	4.5 ~ 5.5	8051 Compatible	16	80-TQFP	DS5001FP-16+-ND ***NEW!***	17.50	16.63
	64kB	1	2	Yes	Yes	Yes	4.5 ~ 5.5	8051 Compatible	16	80-TQFP	DS5001FP-16N+-ND ***NEW!***	20.13	19.13
	128kB	1	2	Yes	Yes	Yes	4.5 ~ 5.5	8051 Compatible	16	80-TQFP	DS5002FMN-16+-ND ***NEW!***	23.00	21.85
ROM-less	—	1	3	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C310-MCG+-ND	15.96	10.64
	—	1	3	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	44-PLCC	DS80C310-QCG+-ND	14.40	9.60
	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C320-ECG+-ND	25.08	16.72
	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C320-MCG+-ND	16.80	11.20
	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	33	40-DIP	DS80C320-MCL+-ND	22.80	15.20
—	1kB	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	33	40-DIP	DS80C320-MNG+-ND	22.80	15.20
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	25	44-PLCC	DS80C320-QCG+-ND	21.66	14.44
	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	33	44-PLCC	DS80C320-QCL+-ND	25.08	16.72
	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	33	44-PLCC	DS80C320-QNG+-ND	25.08	16.72
—	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	33	44-PLCC	DS80C320-QNL+-ND	29.07	19.38
	—	2	3	Yes	Yes	No	2.7 ~ 5.5	80C32 Compatible	18	44-TQFP	DS80C323-ECD+-ND	8.13	5.42
	—	2	3	Yes	Yes	No	2.7 ~ 5.5	80C32 Compatible	18	40-DIP	DS80C323-MCD+-ND	8.13	5.42
	4kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	Dual CAN	100	64-LQFP	DS80C390-FNR+-ND	17.00	16.15
64kB	64kB	1	3	No	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C310-ECG+-ND ***NEW!***	17.76	11.84
	64kB	1	3	No	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	44-PLCC	DS80C310-QNG+-ND ***NEW!***	19.95	13.30
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	33	44-TQFP	DS80C320-ECL+-ND ***NEW!***	29.07	19.38
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C320-ENG+-ND ***NEW!***	29.07	19.38
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	33	44-TQFP	DS80C320-ENL+-ND ***NEW!***	14.75	14.02
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	33	40-DIP	DS80C320-MNL+-ND ***NEW!***	26.22	17.48
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	18	44-TQFP	DS80C323-END+-ND ***NEW!***	8.13	5.42
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	18	44-PLCC	DS80C323-QCD+-ND ***NEW!***	8.13	5.42
	64kB	2	3	Yes	Yes	Yes	4.25 ~ 5.5	80C32 Compatible	18	44-PLCC	DS80C323-QND+-ND ***NEW!***	8.13	5.42
4kB	1kB	2	3	Yes	Yes	Yes	3.85 ~ 5.5	80C52 Compatible	40	64-LQFP	DS80C390-FCR+-ND ***NEW!***	14.88	14.14
	1kB	2	3	Yes	Yes	Yes	3.85 ~ 5.5	80C52 Compatible	40	68-PLCC	DS80C390-QCR+-ND ***NEW!***	15.13	14.38
	1kB	2	3	Yes	Yes	Yes	3.85 ~ 5.5	80C52 Compatible	40	68-PLCC	DS80C390-QNR+-ND ***NEW!***	17.50	16.63
64kB ROM	1kB	3	4	Yes	Yes	Yes	1.8 ~ 3.3	80C32 Compatible	75	100-LQFP	DS80C400-FNY+-ND	26.52	17.68
	1kB	3	4	Yes	Yes	Yes	1.62 ~ 3.6	8051 Compatible	75	100-LQFP	DS80C410-FNY+-ND ***NEW!***	26.67	17.78
	73.5kB	3	4	Yes	Yes	Yes	1.8 ~ 3.3	Ethernet, CAN	75	100-LQFP	DS80C411-FNY+-ND	24.00	16.00
16kB Flash	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-TQFP	DS87C520-ENL+-ND ***NEW!***	25.25	23.99
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS89C430-QNL+-ND	21.00	14.00
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-TQFP	DS87C520-ECL+-ND	22.00	20.90
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MCL+-ND	44.20	33.36
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MNL+-ND	23.75	22.57
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QCL+-ND ***NEW!***	21.00	19.95
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QNL+-ND	24.25	23.04
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QCL+-ND	23.50	22.33
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QNL+-ND	27.00	25.65
64kB Flash	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-TQFP	DS89C450-ENL+-ND	25.59	17.06
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS89C450-MNL+-ND	25.53	17.02
	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS89C450-QNL+-ND	25.35	16.90

DS80C400 Evaluation Kit

The DS80C400 Evaluation Kit is a proven platform to conveniently evaluate the capabilities of the DS80C400 networked microcontroller. This kit contains the DSTINIm400 evaluation module, a fully functional and tested reference design based on the DS80C400 networked microcontroller. In addition, the kit contains the DSTINIs400 sockets board, which functions as the motherboard designed to host the DSTINIm400 evaluation module.
Kit Includes: • DSTINIm400 Reference Board • DSTINIs400 Socket Board • DS80C400 Software CD-ROM • Quick Start Guide • Cables
DS80C400-KIT#-ND Evaluation Kit for DS80C400.. **$120.00**

NEW! HART Modem

The DS8500 is a single-chip modem with Highway Addressable Remote Transducer (HART) capabilities and satisfies the HART physical layer requirements. **Features:** • Single-chip, half-duplex, 1200bps FSK Modulation and Demodulation • Digital signal processing provides reliable input signal detection in noisy conditions • Sinusoidal output signal with lowest harmonic distortion • Few external components enable a space-saving solution • Standard component 3.6864MHz Crystal • 2.7V ~ 3.6V Operating Voltage • 285µA (maximum) current consumption • Space-saving, 5mm x 5mm x 0.8mm, 20-Pin TQFN Package
DS8500-JND+-ND DS8500 Hart Modem **$12.30**

Soft Microcontroller Modules

DS5000(T) Soft Microcontroller Module is a fully 8051-compatible 8-bit CMOS microcontroller that offers "softness" in all aspects of its application. This is accomplished through the comprehensive use of nonvolatile technology to preserve all information in the absence of system Vcc. The internal program/data memory space is implemented using either 8 or 32 kilobytes of nonvolatile CMOS SRAM. **DS2250(T) and DS2252(T)** have the same features as the DS5000 but with an added feature. The program/data memory space is implemented using 8, 32, or 64 kilobytes of nonvolatile CMOS SRAM. **DS2251(T)** has the same features as the DS5000 but with an added feature. The program/data memory space is implemented using 32, 64 or 128 kilobytes of nonvolatile CMOS SRAM.

Module with Internal Battery	NV RAM	Real-Time Memory Encryption Key	Real-Time Clock	Package	Speed (MHz)	Digi-Key Part No.	Price Each	
							1	25
Yes	32K x 8 Internal	40-Bit	Yes	40-SIMM	16	DS2250-32-16+-ND ***NEW!***	47.50	45.13
Yes	64K x 8 Internal	40-Bit	Yes	40-SIMM	16	DS2250-64-16#-ND ***NEW!***	62.50	59.38
Yes	32K x 8 Internal	40-Bit	Yes	40-SIMM	16	DS2250T-32-16+-ND ***NEW!***	52.50	49.88
Yes	64K x 8 Internal	40-Bit	Yes	40-SIMM	16	DS2250T-64-16+-ND ***NEW!***	67.50	64.13
Yes	128K x 8 Internal	—	Yes	72-SIMM	16	DS2251T-128-16#-ND ***NEW!***	92.50	87.88
Yes	64K x 8 Internal	64-Bit	Yes	40-SIMM	16	DS2252T-64-16#-ND ***NEW!***	77.50	73.63
Yes	128K x 8 Internal	64-Bit	Yes	40-SIMM	16	DS2252T-128-16#-ND ***NEW!***	100.00	95.00
Yes	32K x 8 Internal	40-Bit	No	40-EDIP	16	DS5000-32-16+-ND	62.50	59.38
Yes	32K x 8 Internal	40-Bit	No	40-EDIP	16	DS5000T-32-16+-ND	68.75	65.32
No	128K x 8 External	64-Bit	No	80-MQFP	16	DS5002FPM-16+-ND	20.00	19.00

MAXQ™ 16-Bit RISC Microcontrollers

The MAXQ family of 16-bit reduced instruction set computing (RISC) microcontrollers is targeted toward low-cost, low-power, embedded-application designs. The flexible, modular architecture design used in these microcontrollers allows development of targeted designs for specific applications with minimal effort. Microcontrollers in the MAXQ family provide many different combinations of program memory, data memory, and peripherals while supporting a common feature set. This shared functionality provides maximum reusability for hardware and software systems developed using these microcontrollers.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	1-Wire Master	Timers	PWM	Data Pointers	Watchdog	Power Management Mode	Ring Osc.	LCD	LCD Segments	Supply Voltage	Package	Digi-Key Part No.	Price Each		Maxim Part No.
															1	25	
64kB Flash	2kB	2	Yes	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	132	1.8 ~ 2.75	68-QFN	MAXQ2000-RAX+-ND	9.18	6.12	MAXQ2000-RAX+
32kB Flash	2kB	2	Yes	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	132	1.8 ~ 2.75	100-LQFP	MAXQ2000-RFX+-ND	9.18	6.12	MAXQ2000-RFX+

MAXQ3120 Evaluation Kit

The MAXQ3120 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ3120 dual analog-to-digital converter (ADC) microcontroller. The kit contains the MAXQ3120 with the ADC inputs and spare GPIO pins brought out to headers, a JTAG programming interface, an on-board 3.3V power supply, and a 3.5 digit LCD. **Kit Includes:** • MAXQ3120 Evaluation Board • Serial-to-JTAG (MAXQJTAG) Interface Board • Serial Cable • JTAG Cable • MAXQ3120 Evaluation Kit CD • Third Party Compiler Tools Evaluation CD
MAXQ3120-KIT-ND Evaluation Kit for MAXQ3120.. **$174.90**

NEW! Cortex-M3™ Microcontrollers

The LPC13xx devices are ARM Cortex-M3-based microcontrollers for embedded applications featuring a high level of integration and low power consumption. The ARM Cortex-M3 is a next generation core that offers system enhancements such as enhanced debug features and a higher level of support block integration.

The LPC13xx devices operate at CPU frequencies of up to 72MHz. The ARM Cortex-M3 CPU incorporates a 3-stage pipeline and uses a Harvard architecture with separate local instruction and data buses as well as a third bus for peripherals. The ARM Cortex-M3 CPU also includes an internal prefetch unit that supports speculative branching.

The LPC1700 series of low power cost-effective Cortex-M3 microcontrollers feature best-in-class peripheral support such as Ethernet, USB 2.0 Host/OTG/Device, and CAN 2.0B. Operating at speeds up to 100MHz, they have up to 512KB of FLASH, up to 64KB of SRAM, 12-bit A/D and 10-bit D/A converters as well as an internal RC oscillator.

Features: • 10/100 Ethernet MAC • Four reduced power modes: Sleep, Deep Sleep, Power-down and Deep Power-down • Four UARTs with fractional baud rate generation, RS-485. modem control I/O, and IrDA • Operating Temperature: -40°C ~ 85°C

Memory		PWM	No. of Timers	ADC	DAC	I/O	Ehernet	USB	UART	I^{2}C	CAN	SPI	Max. Freq. (MHz)	I/O Voltage	CPU Voltage	Package	Digi-Key Part No.	Price Each			NXP Part No.
RAM	Flash																	1	25	100	
8KB	16KB	Y	4	8-Ch., 10-Bit	—	42	—	—	Y	Y	Y	Y (2)	50	3.3	3.3	48-LQFP	568-5097-ND	4.70	3.78	3.45	LPC11C12FBD48/301
8KB	32KB	Y	4	8-Ch., 10-Bit	—	42	—	—	Y	Y	Y	Y (2)	50	3.3	3.3	48-LQFP	568-5098-ND	5.54	4.46	4.06	LPC11C14FBD48/301
2KB	8KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4957-ND	2.02	1.63	1.47	LPC1111FHN33/101,5
4KB	8KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4956-ND	2.17	1.75	1.58	LPC1111FHN33/201,5
2KB	16KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4955-ND	2.33	1.88	1.69	LPC1112FHN33/101,5
4KB	16KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4954-ND	2.48	2.00	1.80	LPC1112FHN33/201,5
8KB	24KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y (2)	50	3.3	3.3	48-LQFP	568-4953-ND	2.80	2.25	2.05	LPC1113FBD48/301,1
4KB	24KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4952-ND	2.64	2.13	1.92	LPC1113FHN33/201,5
8KB	24KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4951-ND	2.79	2.25	2.03	LPC1113FHN33/301,5
8KB	32KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y (2)	50	3.3	3.3	48-LQFP	568-4950-ND	3.08	2.48	2.26	LPC1114FBD48/301,1
4KB	32KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4949-ND	2.95	2.38	2.14	LPC1114FHN33/201,5
8KB	32KB	Y	4	8-Ch., 10-Bit	—	28	—	—	Y	Y	—	Y	50	3.3	3.3	33-HVQFN	568-4948-ND	2.80	2.25	2.05	LPC1114FHN33/301,5
4KB	8KB	Y	4	8-Ch., 10-Bit	—	25	—	—	Y	Y	—	—	72	3.3	3.3	33-HVQFN	568-4915-ND	2.48	2.00	1.80	LPC1311FHN33,551
8KB	32KB	Y	4	8-Ch., 10-Bit	—	25	—	—	Y	Y	—	—	72	3.3	3.3	33-HVQFN	568-4913-ND	3.22	2.59	2.36	LPC1313FHN33,551
8KB	32KB	Y	4	8-Ch., 10-Bit	—	42	—	—	Y	Y	—	—	72	3.3	3.3	48-LQFP	568-4914-ND	3.50	2.82	2.57	LPC1313FBD48,151
4KB	16KB	Y	4	8-Ch., 10-Bit	—	25	—	Y	Y	Y	—	—	72	3.3	3.3	33-HVQFN	568-4946-ND	4.17	3.36	3.06	LPC1342FHN33,551
8KB	32KB	Y	4	8-Ch., 10-Bit	—	40	—	Y	Y	Y	—	—	72	3.3	3.3	48-LQFP	568-4945-ND	6.30	5.07	4.62	LPC1343FBD48,151
8KB	32KB	Y	4	8-Ch., 10-Bit	—	25	—	Y	Y	Y	—	—	72	3.3	3.3	33-HVQFN	568-4944-ND	5.18	4.17	3.80	LPC1343FHN33,551
8KB	32KB	Y	4	6-Ch., 12-Bit	—	52	—	Y	Y (4)	Y (3)	Y	Y	100	3.3	3.3	80-LQFP	568-4788-ND	6.64	5.34	4.86	LPC1751FBD80,551
16KB	64KB	Y	4	6-Ch., 12-Bit	—	52	—	Y	Y (4)	Y (3)	Y	Y	100	3.3	3.3	80-LQFP	568-4789-ND	7.10	5.83	5.26	LPC1752FBD80,551
32KB	128KB	Y	4	6-Ch., 12-Bit	1-Ch., 10-Bit	52	—	Y	Y (4)	Y (3)	Y	Y	100	3.3	3.3	80-LQFP	568-4790-ND	8.30	6.81	6.15	LPC1754FBD80,551
32KB	256KB	Y	4	6-Ch., 12-Bit	1-Ch., 10-Bit	52	—	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	80-LQFP	568-4791-ND	9.75	8.00	7.22	LPC1756FBD80,551
64KB	512KB	Y	4	6-Ch., 12-Bit	1-Ch., 10-Bit	52	Y	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	80-LQFP	568-4792-ND	12.23	10.03	9.05	LPC1758FBD80,551
32KB	128KB	Y	4	8-Ch., 12-Bit	—	70	Y	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	100-LQFP	568-4793-ND	9.48	7.77	7.02	LPC1764FBD100,551
64KB	256KB	Y	4	8-Ch., 12-Bit	1-Ch., 10-Bit	70	—	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	100-LQFP	568-4794-ND	10.70	8.78	7.92	LPC1765FBD100,551
64KB	256KB	Y	4	8-Ch., 12-Bit	1-Ch., 10-Bit	70	Y	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	100-LQFP	568-4795-ND	11.28	9.25	8.35	LPC1766FBD100,551
64KB	512KB	Y	4	8-Ch., 12-Bit	1-Ch., 10-Bit	70	Y	Y	Y (4)	Y (3)	Y (2)	Y	100	3.3	3.3	100-LQFP	568-4796-ND	11.48	9.66	8.88	LPC1768FBD100,551
64KB	512KB	Y	4	6-Ch., 12-Bit	1-Ch., 10-Bit	52	—	Y	Y (4)	Y (2)	Y (2)	Y	120	3.3	3.3	80-LQFP	568-4968-ND	11.22	9.44	8.67	LPC1759FBD80,551
64KB	512KB	Y	4	8-Ch., 12-Bit	1-Ch., 10-Bit	70	Y	Y	Y (4)	Y (3)	—	Y	100	3.3	3.3	100-LQFP	568-4967-ND	11.88	9.74	8.79	LPC1767FBD100,551
64KB	512KB	Y	4	8-Ch., 12-Bit	1-Ch., 10-Bit	70	Y	Y	Y (4)	Y (3)	Y (2)	Y	120	3.3	3.3	100-LQFP	568-4966-ND	12.08	10.16	9.34	LPC1769FBD100,551

ARM7 Microcontrollers

The LPC2000 architecture is based on a 16/32-bit ARM7TDMI-S™ CPU with real-time emulation and embedded trace support. A 128-bit wide memory interface and a unique accelerator architecture enable 32-bit code execution at maximum clock rate. For critical code size applications, the alternative 16-bit Thumb™ mode reduces code by more than 30% with minimal performance penalty. Due to their tiny size and low power consumption, these microcontrollers are ideal for applications where miniaturization is a key requirement. **Features:** • 16/32-bit ARM7TDMI-S processor • Up to 512kB on-chip Static RAM • In-System Programming (ISP) and In-Application Programming (IAP) via on-chip boot loader software • Vectored Interrupt Controller with configurable priorities and vector addresses • Embedded ICE-RT interface enables breakpoints and watch points. Interrupt service routines can continue to execute whilst the foreground task is debugged with the on-chip RealMonitor™ software • Embedded Trace Macrocell enables non-intrusive high speed real-time tracing of instruction execution • Multiple serial interfaces

Memory		PWM	No. of Timers	ADC	DAC	I/O	USB	UART	I^{2}C	CAN	SPI	Max. Freq. (MHz)	Temp. (°C) Range	I/O Voltage	CPU Voltage	Package	Digi-Key Part No.	Price Each			NXP Part No.
RAM	Flash																	1	25	100	
2K	8K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2092-ND	4.12	3.31	3.02	LPC2101FBD48,151
4K	16K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2093-ND	5.18	4.17	3.80	LPC2102FBD48,151
4K	16K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-HVQFN	568-4689-ND	5.18	4.17	3.80	LPC2102FHN48,551
8K	32K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2094-ND	6.16	4.95	4.51	LPC2103FBD48,151
8K	32K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-HVQFN	568-4690-ND	6.30	5.07	4.62	LPC2103FHN48,551
16K	128K	Y	2	—	—	32	—	Y(2)	Y	—	Y	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-4365-ND	11.58	9.50	8.57	LPC2104FBD48/01,15
32K	128K	Y	2	—	—	32	—	Y(2)	Y	—	Y	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-4366-ND	11.81	9.94	9.13	LPC2105FBD48/01,15
64K	128K	Y	2	—	—	32	—	Y(2)	Y	—	Y	60	-40 ~ 85	3.3V	1.8V	48-LQFP	568-4367-ND	15.40	12.95	11.90	LPC2106FBD48/01,55
64K	128K	Y	2	—	—	32	—	Y(2)	Y	—	Y	60	-40 ~ 85	3.3V	1.8V	48-HVQFN	568-4368-ND	15.64	13.16	12.09	LPC2106FHN48/01,55
8K	64K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4311-ND	9.48	7.77	7.02	LPC2109FBD64/01,55
16K	128K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4312-ND	12.28	10.07	9.09	LPC2114FBD64/01,15
16K	128K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4313-ND	12.28	10.33	9.49	LPC2119FBD64/01,15
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4314-ND	12.28	10.33	9.49	LPC2124FBD64/01,15
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4315-ND	14.10	11.86	10.90	LPC2129FBD64/01,15
8K	32K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4005-ND	8.00	6.56	5.92	LPC2131FBD64/01,15
16K	64K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4006-ND	9.48	7.77	7.02	LPC2132FBD64/01,15
16K	64K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-HVQFN	568-4007-ND	10.13	8.31	7.50	LPC2132FHN64/01,55
16K	128K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4008-ND	11.75	9.64	8.70	LPC2134FBD64/01,15
32K	256K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4009-ND	12.39	10.42	9.58	LPC2136FBD64/01,15
32K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4010-ND	13.79	11.60	10.66	LPC2138FBD64/01,15
32K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-HVQFN	568-4011-ND	14.10	11.86	10.90	LPC2138FHN64/01,55
8K	32K	Y	4	6-Ch., 10-Bit	—	45	Y	Y(2)	Y(2)	—	—	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1761-ND	8.88	7.28	6.57	LPC2141FBD64,151
16K	64K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	—	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1762-ND	10.30	8.45	7.63	LPC2142FBD64,151
16K	128K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1763-ND	11.11	9.35	8.59	LPC2144FBD64,151
40K	256K	Y	4	8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1764-ND	13.27	11.16	10.26	LPC2146FBD64,151
40K	512K	Y	4	8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1765-ND	14.78	12.44	11.43	LPC2148FBD64,151
32K	512K	Y	5	8+6-Ch., 10-Bit	1-Ch., 10-Bit	32	—	Y(2)	Y	—	Y	60	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4524-ND	15.38	12.94	11.89	LPC2157FBD100,551
40K	512K	Y	5	4-Ch., 10-Bit	1-Ch., 10-Bit	46	Y	Y(2)	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4691-ND	16.57	13.94	12.81	LPC2158FBD100,551
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(4)	Y(2)	60	-40 ~ 125	3.3V	1.8V	64-LQFP	568-4316-ND	16.10	13.55	12.45	LPC2194HBD64/01,15
16K	—	Y	2	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4012-ND	8.13	6.67	6.02	LPC2210FBD144/01,5
16K	128K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4317-ND	13.79	11.60	10.66	LPC2212FBD144/01,5
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4318-ND	15.25	12.83	11.79	LPC2214FBD144/01,5
64K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	75	-40 ~ 85	3.3V	1.8V	144-LQFP	568-1896-ND	8.75	7.18	6.48	LPC2220FBD144,551
64K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	—	—	Y(2)	75	-40 ~ 85	3.3V	1.8V	144-TFBGA	568-2020-ND	9.85	8.08	7.29	LPC2220FET144/G,55
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4319-ND	16.72	14.06	12.92	LPC2292FBD144/01,5
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-TFBGA	568-4320-ND	17.05	14.34	13.18	LPC2292FET144/01,5
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(4)	Y(2)	60	-40 ~ 125	3.3V	1.8V	144-LQFP	568-4321-ND	18.72	15.75	14.47	LPC2294HBD144/01,5
34K	64K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4525-ND	8.50	6.97	6.29	LPC2361FBD100,551
58K	128K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4526-ND	11.03	9.05	8.16	LPC2362FBD100,551
34K	128K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3995-ND	9.98	8.18	7.39	LPC2364FBD100,551
58K	256K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	70	—	Y(4)	Y(3)	—	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4409-ND	11.05	9.07	8.18	LPC2365FBD100,551
58K	256K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3996-ND	11.88	9.74	8.79	LPC2366FBD100,551
58k	512K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	70	—	Y(4)	Y(3)	—	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4410-ND	11.35	9.55	8.78	LPC2367FBD100,551
58K	512K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3997-ND	12.10	10.18	9.35	LPC2368FBD100,551
58K	512K	Y	4	8-Ch., 10-Bit	1-Ch., 10-Bit	104	—	Y(4)	Y(3)	—	Y	72	-40 ~ 85	3.3V	3.3V	144-LQFP	568-4411-ND	12.98	10.92	10.03	LPC2377FBD144,551
58K	512K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	104	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	144-LQFP	568-3998-ND	13.86	11.66	10.71	LPC2378FBD144,551
64K	512K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4322-ND	13.44	11.31	10.39	LPC2387FBD100,551
64K	512K	Y	4	8-Ch., 10-Bit	1-Ch., 10-Bit	104	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	144-LQFP	568-4323-ND	15.38	12.94	11.89	LPC2388FBD144,551
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	136	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	180-TFBGA	568-4258-ND	16.52	13.90	12.77	LPC2458FET180,551

(Continued)

ARM7 Microcontrollers *(Cont.)*

Memory		PWM	No. of Timers	ADC	DAC	I/O	USB	UART	I^2C	CAN	SPI	Max. Freq. (MHz)	Temp. (°C) Range	I/O Voltage	CPU Voltage	Package	Digi-Key Part No.	Price Each			NXP Part No.
RAM	Flash																	1	25	100	
98K	—	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	136	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4259-ND	10.23	8.39	7.57	LPC2460FBD208,551
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4261-ND	18.70	15.73	14.45	LPC2468FBD208,551
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-TFBGA	568-4262-ND	18.70	15.73	14.45	LPC2468FET208,551
98K	—	Y(2)	4	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4361-5-ND	12.03	10.12	9.30	LPC2470FBD208,551
98K	—	Y(2)	4	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-TFBGA	568-4362-ND	12.03	10.12	9.30	LPC2470FET208,551
98K	512K	Y(2)	4	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4363-ND	19.69	16.56	15.22	LPC2478FBD208,551
98K	512K	Y(2)	4	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-TFBGA	568-4364-ND	19.69	16.56	15.22	LPC2478FET208,551
64K	1M	—	4	5-Ch., 10-Bit	—	85	Y	Y	Y	—	—	60	-40 ~ 85	3.3V	1.8V	180-TFBGA	568-4528-ND	17.58	14.79	13.59	LPC2888FET180/01,5
32K	—	Y	3	8-Ch., 10-Bit	—	76	—	Y(3)	—	Y	Y	84	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4269-ND	12.38	10.15	9.16	LH75401N0Q100C0,55
32K	—	Y	3	8-Ch., 10-Bit	—	76	—	Y(3)	—	Y	Y	84	-40 ~ 85	5V	3.3V	144-LQFP	568-4330-ND	11.58	9.50	8.57	LH75411N0Q100C0;55
32K	—	Y(2)	2	—	—	64	—	Y(3)	—	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4331-ND	12.38	10.15	9.16	LH79520N0Q000B1;55
16K	—	Y	3	10-Ch., 10-Bit	—	108	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	208-LFBGA	568-4332-ND	14.12	11.88	10.92	LH79524N0F100A1;55
16K	—	Y	3	10-Ch., 10-Bit	—	86	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4333-ND	12.50	10.51	9.66	LH79525N0Q100A1;55

ARM9 Microcontrollers

The LPC3180 is based on the ARM926EJ-S core and offers a hardware vector fl0oating-point unit for speed and efficiency. An integrated USB OTG interface with full host capability lets this high performance microcontroller connect directly to PDAs, smart-card readers and printers. The large array of peripherals available on chip also include UARTs, SPI, I^2C, a real-time clock with a separated power domain and NAND Flash and DDR memory controllers.

Memory RAM	PWM	No. of Timers	ADC	I/O	USB	UART	I^2C	SPI	Max. Freq. (MHz)	Temperature Range (°C)	I/O Voltage	CPU Voltage	Package	Digi-Key Part No.	Price Each			NXP Part No.
															1	25	100	
56K	4	7	16-Ch., 10-Bit	108	—	Y(4)	Y(2)	Y(3)	125	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4692-ND	12.10	9.93	8.96	LPC2917FBD144/01/,
56K	4	7	16-Ch., 10-Bit	108	—	Y(4)	Y(2)	Y(3)	125	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4693-ND	11.77	9.90	9.10	LPC2919FBD144/01/,
56K	Y	7	24-Ch., 10-Bit	104	Y	Y(4)	Y(2)	Y(3)	125	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4694-ND	11.25	9.23	8.33	LPC2927FBD144,551
56K	Y	7	24-Ch., 10-Bit	104	Y	Y(4)	Y(2)	Y(3)	125	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4695-ND	11.25	9.23	8.33	LPC2929FBD144,551
96K	Y	4	4-Ch., 10-Bit	97	Y	Y	Y(2)	Y	180	-40 ~ 85	1.8/2.8V	1.2V	180-TFBGA	568-4696-ND	7.00	5.74	5.18	LPC3130FET180,551
192K	Y	4	4-Ch., 10-Bit	97	Y	Y	Y(2)	Y	180	-40 ~ 85	1.8/2.8V	1.2V	180-TFBGA	568-4697-ND	9.38	7.69	6.94	LPC3131FET180,551
64K	Y(2)	4	3-Ch., 10-Bit	55	Y	Y(7)	Y(2)	Y(2)	208	-40 ~ 85	3/1.8V	1.2V	320-LFBGA	568-4529-ND	14.19	11.94	10.97	LPC3180FEL320/01,5
128K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8/3V	1.2V	296-TFBGA	568-4965-ND ***NEW!***	10.00	8.20	7.40	LPC3220FET296/01,5
128K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8V	1.2V	296-TFBGA	568-4530-ND	8.20	6.73	6.07	LPC3220FET296,551
256K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8/3V	1.2V	296-TFBGA	568-4964-ND ***NEW!***	11.25	9.23	8.33	LPC3230FET296/01,5
256K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8V	1.2V	296-TFBGA	568-4531-ND	9.23	7.57	6.83	LPC3230FET296,551
256K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8/3V	1.2V	296-TFBGA	568-4963-ND ***NEW!***	11.25	9.23	8.33	LPC3240FET296/01,5
256K	Y(2)	6	3-Ch., 10-Bit	87	Y	Y(7)	Y(2)	Y(2)	266	-40 ~ 85	1.8/2.8/3V	1.2V	296-TFBGA	568-4962-ND ***NEW!***	11.00	9.25	8.50	LPC3250FET296/01,5
80K	—	3	—	60	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	256-LFBGA	568-4274-ND	16.28	13.69	12.58	LH7A400N0F000B5,55
80K	—	3	—	60	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	256-BGA	568-4334-ND	20.50	17.25	15.85	LH7A400N0G000B5;55
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4335-ND	18.52	15.58	14.32	LH7A404N0F000B3;55
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	266	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4336-ND	19.69	16.56	15.22	LH7A404N0F092B3;55

8051 Microcontrollers

Digi-Reel®

Memory				No. of Timers	PWM	UART	I^2C	CAN	SPI	ADC Ch./Bits	DAC Ch./Bits	Analog Compar.	I/O	Max. Freq. MHz @ 5V	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			NXP Part No.
RAM	EEPROM	OTP	Flash															1	25	100	
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1232-5-ND	2.64	2.13	1.92	P80C31SBAA,512
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1004-5-ND	2.88	2.33	2.10	P80C31SBPN,112
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1233-5-ND	2.73	2.20	1.98	P80C32SBAA,512
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1005-5-ND	2.88	2.33	2.10	P80C32SBPN,112
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1234-5-ND	2.73	2.20	1.98	P80C32UBAA,512
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3195-5-ND	2.86	2.30	2.10	P80C32UFAA,512
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	68-PLCC	568-1235-5-ND	13.07	10.99	10.10	P80C552EBA/08,512
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	80-QFP	568-1236-ND	13.07	10.99	10.10	P80C552EBB/08,557
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	68-PLCC	568-1238-5-ND	13.60	11.44	10.51	P80C552IBA/08,512
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	-40 ~ 85	68-PLCC	568-1239-5-ND	14.92	12.55	11.53	P80C552IFA/08,512
512B	—	—	—	3	Y	Y	Y	—	—	7/10	—	—	48	16	-40 ~ 85	64-LQFP	568-2086-ND	13.60	11.44	10.51	P80C554SFBD,157
512B	—	—	—	2	Y(2)	Y	Y	Y	—	8/10	—	—	40	16	-40 ~ 85	68-PLCC	568-1241-5-ND	21.49	18.08	16.61	P80C592FFAA/00,512
256B	—	—	—	2	—	Y	Y	—	—	—	—	—	32	24	-40 ~ 85	44-PLCC	568-3196-5-ND	9.10	7.47	6.74	P80C652EBA/04,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-1242-5-ND	7.65	6.28	5.67	P87C51FA-4A,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	40-DIP	568-3198-5-ND	7.85	6.44	5.81	P87C51FA-4N,112
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-3199-5-ND	9.65	7.92	7.15	P87C51FB-4A,512
256B	—	16K	—	4	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1010-5-ND	9.75	8.00	7.22	P87C51FB-4N,112
2K	—	64K	—	4	—	Y(2)	—	—	Y	—	—	—	34	24	0 ~ 70	44-PLCC	568-1243-5-ND	11.13	9.13	8.24	P87C51MB2BA/02,529
3K	—	96K	—	4	—	Y (2)	—	—	Y	—	—	—	34	24	0 ~ 70	44-PLCC	568-1244-5-ND	12.28	10.07	9.09	P87C51MC2BA/02,529
512B	—	16K	—	4	Y	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-3200-5-ND	5.35	4.30	3.92	P87C51RB2BN,112
512B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1245-5-ND	6.25	5.13	4.63	P87C51RB+4A,512
512B	—	32K	—	3	Y	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-4514-5-ND	6.98	5.72	5.17	P87C51RC2FA,512
128B	—	4K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1246-5-ND	3.42	2.75	2.51	P87C51SBAA,512
128B	—	4K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1011-5-ND	3.64	2.93	2.67	P87C51SBPN,112
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1247-5-ND	4.09	3.29	3.00	P87C52SBAA,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PQFP	568-1248-ND	4.00	3.22	2.94	P87C52SBBB,557
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1012-5-ND	4.23	3.40	3.10	P87C52SBPN,112
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-1249-5-ND	4.48	3.60	3.28	P87C52SFAA,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1250-5-ND	3.34	2.69	2.45	P87C52UBAA,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1251-5-ND	3.07	2.48	2.23	P87C52X2BA,512
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1013-5-ND	2.97	2.39	2.18	P87C52X2BN,112
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3201-5-ND	3.53	2.84	2.59	P87C52X2FA,512
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1252-5-ND	5.20	4.18	3.81	P87C54SBAA,512
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1014-5-ND	6.66	5.36	4.88	P87C54SBPN,112
256B	—	8K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	0 ~ 70	68-PLCC	568-1253-5-ND	15.03	12.64	11.62	P87C552SBAA,512
512B	—	16K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	0 ~ 70	68-PLCC	568-1254-5-ND	17.01	14.31	13.15	P87C554SBAA,512
512B	—	16K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	-40 ~ 85	68-PLCC	568-1255-5-ND	19.60	16.49	15.15	P87C554SFAA,512
512B	—	16K	—	3	Y(2)	Y	Y	Y	—	6/10	—	—	32	12	-40 ~ 85	44-PLCC	568-1256-5-ND	9.89	8.32	7.65	P87C591VFA/00,512
256B	—	16K	—	2	—	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-LQFP	568-3202-ND	6.03	4.95	4.46	P87C654X2BBD,157
512B	—	16K	—	4	Y	Y	Y	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3205-5-ND	11.28	9.25	8.35	P87C660X2FA,529
128B	—	1K	—	2	—	Y	Y	—	—	—	—	Y(2)	12	20	0 ~ 70	14-DIP	568-3208-5-ND	2.71	2.19	1.97	P87LPC760BN,112

‡ CCU: Capture Compare Unit   † Cut Tape   ◊ Tape and Reel

(Continued)

8051 Microcontrollers *(Cont.)*

Memory				No. of						ADC	DAC	Analog		Max. Freq.	Temperature		Digi-Key	Price Each			NXP
RAM	EEPROM	OTP	Flash	Timers	PWM	UART	I^2C	CAN	SPI	Ch./Bits	Ch./Bits	Compar.	I/O	MHz @ 5V	Range (°C)	Package	Part No.	1	25	100	Part No.
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	14	20	0 ~ 70	16-TSSOP	568-3209-5-ND	2.77	2.24	2.02	P87LPC761BDH,112
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	14	20	0 ~ 70	16-DIP	568-3210-5-ND	2.10	1.70	1.53	P87LPC761BN,112
128B	—	2K	—	2	—	Y	Y	—	—	—	—	—	18	20	0 ~ 70	20-SOIC	568-1257-5-ND	2.86	2.30	2.10	P87LPC762BD,512
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3212-5-ND	3.57	2.87	2.62	P87LPC762FD,512
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3213-5-ND	3.77	3.04	2.77	P87LPC762FN,112
128B	—	4K	—	2	—	Y	Y	—	—	—	—	—	18	20	0 ~ 70	20-SOIC	568-1258-5-ND	3.12	2.52	2.29	P87LPC764BD,512
128B	—	4K	—	2	—	Y	Y	—	—	—	Y(2)	—	18	20	0 ~ 70	20-TSSOP	568-1259-5-ND	3.08	2.48	2.26	P87LPC764BDH,512
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	0 ~ 70	20-DIP	568-1017-5-ND	3.27	2.63	2.40	P87LPC764BN,112
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3214-5-ND	3.68	2.97	2.70	P87LPC764FD,512
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3215-5-ND	3.92	3.15	2.87	P87LPC764FN,112
128B	—	4K	—	2	—	Y	Y	—	—	8/4	8/4	—	18	20	0 ~ 70	20-SOIC	568-1260-5-ND	3.74	3.01	2.75	P87LPC767BD,512
128B	—	4K	—	2	—	—	Y	—	—	4/8	—	Y(2)	18	20	0 ~ 70	20-DIP	568-1018-5-ND	3.98	3.20	2.92	P87LPC767BN,112
128B	—	4K	—	2	—	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3216-5-ND	4.36	3.51	3.20	P87LPC767FD,512
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	0 ~ 70	20-SOIC	568-3218-5-ND	4.10	3.30	3.00	P87LPC768BD,512
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3219-5-ND	5.19	4.17	3.80	P87LPC768FD,512
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3220-5-ND	4.33	3.49	3.18	P87LPC768FN,112
128B	—	4K	—	2	—	Y	Y	—	—	8/4	2/8	—	18	20	-40 ~ 125	20-SOIC	568-1261-5-ND	6.66	5.46	4.93	P87LPC769HD,512
1K	—	—	16K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4252-5-ND	8.76	7.19	6.49	P89CV51RB2FA,512
1K	—	—	32K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4254-5-ND	9.15	7.51	6.78	P89CV51RC2FA,512
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4256-5-ND	10.20	8.37	7.55	P89CV51RD2FA,512
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-TQFP	568-4257-ND	9.90	8.12	7.33	P89CV51RD2FBC,557
128B	—	—	1K	4	Y	—	—	—	—	—	—	Y	6	18	-40 ~ 85	8-DIP	568-2245-5-ND	1.61	1.29	1.13	P89LPC901FN,129
128B	—	—	1K	4	Y	—	—	—	—	—	—	Y	6	18	-40 ~ 85	8-SOIC	568-1994-ND	1.47	1.18	1.03	P89LPC901FD,112
128B	—	—	1K	4	—	—	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-DIP	568-2246-5-ND	1.32	1.07	.96	P89LPC902FN,129
128B	—	—	1K	4	—	Y	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-SOIC	568-1996-ND	1.55	1.25	1.13	P89LPC903FD,112
128B	—	—	2K	4	Y	Y	—	—	—	4/8	1/8	Y(2)	12	18	-40 ~ 85	14-TSSOP	568-2006-5-ND	1.92	1.55	1.40	P89LPC915FDH,129
256B	—	—	2K	2	—	Y	—	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-4337-1-ND†	2.42	1.87	1.70	P89LPC916FDH,118
256B	—	—	2K	2	—	Y	—	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-4337-2-ND◊	2330.00/2,500			P89LPC916FDH,118
256B	—	—	2K	4	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-2247-ND	2.14	1.73	1.56	P89LPC917FDH,129
256B	—	—	4K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-DIP	568-2248-5-ND	2.45	1.98	1.78	P89LPC921FN,112
256B	—	—	8K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-3223-5-ND	2.05	1.66	1.49	P89LPC9221FDH,512
256B	—	—	8K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-DIP	568-1282-5-ND	2.82	2.28	2.05	P89LPC922FN,112
256B	—	—	8K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-2452-ND	2.51	2.03	1.83	P89LPC922FDH,512
256B	—	—	4K	2	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-4338-1-ND†	3.01	2.33	2.11	P89LPC924FDH,518
256B	—	—	4K	2	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-4338-2-ND◊	2902.50/2,500			P89LPC924FDH,518
256B	—	—	8K	4	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-2009-5-ND	2.98	2.40	2.16	P89LPC925FDH,529
256B	—	—	4K	4	Y(2)	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1283-5-ND	2.64	2.13	1.92	P89LPC930FDH,129
256B	—	—	8K	4	Y(2)	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1284-5-ND	2.88	2.33	2.10	P89LPC931FDH,112
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-PLCC	568-4279-5-ND	3.36	2.70	2.46	P89LPC932A1FA,112
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	—	1/8	Y(2)	26	12	-40 ~ 85	28-TSSOP	568-4515-5-ND	3.22	2.59	2.36	P89LPC932A1FDH,512
768B	512B	—	8K	5	CCU	Y	Y	—	Y	—	—	Y(2)	26	18	-40 ~ 85	28-PLCC	568-4698-5-ND	3.22	2.59	2.36	P89LPC9321FA,112
768B	512B	—	8K	5	CCU	Y	Y	—	Y	—	—	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4699-1-ND†	3.30	2.70	2.42	P89LPC9321FDH,518
768B	512B	—	8K	5	CCU	Y	Y	—	Y	—	—	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4699-2-ND◊	3657.50/2,500			P89LPC9321FDH,518
768B	512B	—	8K	5	CCU	Y	Y	—	Y	—	—	Y(2)	26	18	-40 ~ 85	28-DIP	568-4700-5-ND	3.22	2.59	2.36	P89LPC9321FN,112
256B	—	—	4K	4	Y(2)	Y	Y	—	Y	4/8	4/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2010-5-ND	2.88	2.33	2.10	P89LPC933FDH,529
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	1/8 x2	Y(2)	26	18	-40 ~ 85	28-PLCC	568-1287-5-ND	3.78	3.04	2.77	P89LPC935FA,129
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	1/8 x2	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1288-5-ND	3.64	2.93	2.67	P89LPC935FDH,529
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	2/8	Y(2)	26	18	-40 ~ 85	28-HVQFN	568-2251-5-ND	3.78	3.04	2.77	P89LPC935FHN-S
768B	512B	—	8K	5	CCU	Y	Y	—	Y	4/8 x2	2/8	Y(2)	26	18	-40 ~ 85	28-PLCC	568-4701-5-ND	3.78	3.04	2.77	P89LPC9351FA,112
768B	512B	—	8K	5	CCU	Y	Y	—	Y	4/8 x2	2/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4702-1-ND†	3.90	3.19	2.86	P89LPC9351FDH,518
768B	512B	—	8K	5	CCU	Y	Y	—	Y	4/8 x2	2/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4702-2-ND◊	4322.50/2,500			P89LPC9351FDH,518
256B	512B	—	16K	2	CCU‡	Y	Y	—	Y	4/8 x2	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4339-1-ND†	4.80	3.92	3.52	P89LPC936FDH,518
256B	512B	—	16K	2	CCU‡	Y	Y	—	Y	4/8 x2	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4339-2-ND◊	5320.00/2,500			P89LPC936FDH.518
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2013-5-ND	3.19	2.57	2.34	P89LPC938FDH,529
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	—	Y(2)	26	18	-40 ~ 85	28-HVQFN	568-3226-ND	2.75	2.21	2.02	P89LPC938FHN,151
256B	—	—	8K	4	Y(2)	Y	Y	—	Y	—	—	Y(2)	23	18	-40 ~ 85	64-LQFP	568-3227-ND	3.09	2.49	2.27	P89LPC9401FBD,551
512B	—	—	8K	4	Y(2)	Y(2)	Y	—	Y	8/10	—	Y(2)	42	18	-40 ~ 85	44-PLCC	568-2253-5-ND	4.37	3.51	3.20	P89LPC952FA,512
512B	—	—	8K	4	Y(2)	Y(2)	Y	—	Y	8/10	1/8	Y(2)	40	18	-40 ~ 85	44-LQFP	568-2014-5-ND	4.20	3.38	3.08	P89LPC952FBD,157
128B	—	—	1K	4	Y(2)	Y	—	—	—	4/8	1/8	Y	10	18	-40 ~ 85	14-TSSOP	568-2002-5-ND	1.67	1.35	1.22	P89LPC9107FDH,129
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-TQFP	568-1289-ND	7.90	6.48	5.85	P89LV51RD2BBC,557
1K	—	—	16K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2427-5-ND	6.70	5.50	4.96	P89V51RB2FA,529
1K	—	—	16K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-3229-5-ND	6.95	5.70	5.15	P89V51RB2FN,112
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2428-5-ND	7.05	5.79	5.22	P89V51RC2FA,512
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2429-ND	6.83	5.60	5.06	P89V51RC2FBC,557
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-2430-5-ND	7.40	6.07	5.48	P89V51RC2FN,112
1K	—	—	64K	3	—	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-PLCC	568-1290-5-ND	8.15	6.69	6.04	P89V51RD2FA,512
1K	—	—	64K	3	—	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-TQFP	568-1291-ND	7.90	6.48	5.85	P89V51RD2FBC,557
1K	—	—	64K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-2431-5-ND	8.78	7.20	6.50	P89V51RD2FN,112
256B	192B	—	8K	3	Y	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-4249-5-ND	2.94	2.37	2.16	P89V52X2FA,512
512B	—	—	16K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2432-5-ND	11.25	9.23	8.33	P89V660FA,512
512B	—	—	16K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2433-ND	11.25	9.23	8.33	P89V660FBC,557
1K	—	—	32K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2434-5-ND	12.15	9.97	9.00	P89V662FA,512
2K	—	—	64K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2436-5-ND	11.48	9.66	8.88	P89V664FA,512
2K	—	—	64K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2437-ND	11.48	9.66	8.88	P89V664FBC,557
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-4340-5-ND	11.98	9.82	8.87	PXAG30KBA,512
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-LQFP	568-1300-ND	11.83	9.70	8.76	PXAG30KBBD,157
1K	—	32K	—	3	Y	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	68-PLCC	568-1099-5-ND	15.42	12.97	11.92	PXAS30KBA,512
1K	—	—	—	3	Y	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	80-LQFP	568-1303-ND	13.89	11.69	10.74	PXAS30KBBE,557
1K	—	—	—	2	—	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	68-PLCC	568-3536-5-ND	22.61	19.22	17.81	PXAS37KBA,512
1K	—	—	—	2	—	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	80-LQFP	568-3537-ND	21.05	17.90	16.58	PXAS37KBBE,88

‡ CCU: Capture Compare Unit † Cut Tape ◊ Tape and Reel

Development Tools for ARM Microcontrollers

NEW! LPCXpresso Evaluation Boards

The LPCXpresso target board includes an integrated JTAG debugger, so there's no need for a separate JTAG debug probe. The target portion of the board can connect to expansion boards to provide a variety of interfaces and I/O devices. The on-board JTAG debugger provides a high-speed USB to JTAG/SWD interface to the IDE, and it can be connected to other debug targets such as a customer prototype.

568-4859-ND	LPC1114 Evaluation Board	**$29.95**
568-4947-ND	LPC1343 Evaluation Board	**$29.95**
568-5101-ND	LPC1768 Evaluation Board	**$29.95**

NEW! LPC1300 Evaluation Kit by Hitex

The LPC1313-Stick is a small modular Evaluation Kit with optional extension boards. The LPC-Stick package provides target hardware with the relative microcontroller from NXP, user pins and LEDs for applications use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools the LPC-Stick allows full access to all chip features, debugging and programming.

Kit Contents: • LPC1313-Stick Development Stick • CD containing toolchain and datasheets

568-4918-ND	LPC1313 Evaluation Kit	**$105.60**

NEW! LPC1300 Evaluation Board by Keil

The Keil MCB1000 Evaluation Board introduces the LPC1300 family of ARM Cortex-M3 processor-based devices, allowing you to create and test working programs for this advanced architecture. The MCB1000 has a wide range of interfaces making it a great starting point for your next Cortex-M3 project.

Kit Contents:
• MCB1000 Evaluation Board • MDK-ARM Evaluation Tools • USB Cable • Quick Start Guide

568-4919-ND	LPC1300 Evaluation Board	**$105.60**

NEW! LPC1700 Evaluation Board by Keil

The Keil MCB1700 Evaluation Board introduces the new NXP LPC1700 family of ARM Cortex-M3 processor-based devices, allowing you to create and test working programs for this advanced architecture. The MCB1700 has a wide range of interfaces making it a great starting point for your next Cortex-M3 project.

Kit Contents: • MCB1700 Evaluation Board • MDK-ARM Evaluation Tools • Quick Start Guide

568-4816-ND	LPC1768 Evaluation Board	**$345.60**

NEW! LPC1768 Development Kit

The LPC1768 Development Kit contains all of the hardware and software required for evaluating and developing with NXP's LPC1700 series microcontrollers. The LPC1768 Development board contains an NXP LPC1768 microcontroller and features 10/100 Mbps Ethernet, Host/Device USB, 16-bit stereo audio, serial port, color LCD and pads for all IO pins including GPIO and CAN, making it ideal for evaluating all of the features of the LPC1700 series microcontrollers.

Kit Contents:
• LPC1768 Development board • Evaluation software • Example programs

568-4815-ND	LPC1768 Development Kit	**$345.10**

NEW! LPC1768/LPC2368 Prototype Modules by mbed

The mbed NXP board allows for the creation of prototypes without having to work with low-level microcontroller details. Therefore, a designer can experiment and iterate faster than ever. Using a browser-based IDE, software can be composed and compiled, then downloaded quickly and easily to the board's NXP microcontroller using a simple drag-and-drop function.

Engineers new to embedded applications can use the board to prototype real products incorporating microcontrollers, while experienced engineers can use it to be more productive in early stages of development. The mbed tools are designed so that new ideas can be tested quickly.

568-4916-ND	mbed Board for LPC1768	**$59.00**
568-4917-ND	mbed Board for LPC2368	**$59.00**

IAR KickStart Kit™ for LPC2103

The IAR KickStart Kit for LPC2103 contains hardware and software and allows you to design, develop, integrate and test your applications.

LPC2103 Development Board Contains:
• Serial Port • Reset Button • ISP button • 16 fully configurable LEDs • Breakout Headers • JTAG Interface Connector

Includes: • Development Board • IAR Embedded Workbench with 32kB version of IAR C/C++Complier • Development Kit includes on-board JLink

568-4301-ND	LPC2103 Development Board	**$132.13**
568-4302-ND	LPC2103 Development Kit	**$100.48**

LPC2106 Evaluation Board

The evaluation board is populated with an LPC2106 device and features 2 serial ports, 2 user-defined buttons, 16 fully configured LEDs, 20-pin JTAG interface connector as well as breakout headers for all pins. The kit also comes with a 32K code-limited version of IAR's Embedded Workbench, including IAR's ARM compiler and C-SPY debugger as well as a free license of the IAR MakeApp code generator for the LPC210x.

Applications: LPC2106 family

Includes:

- Development board (with LPC2106)
- Development Software

568-1756-ND	Evaluation Board for LPC210x ARM MCU	**$158.05**

ARM7 Evaluation Boards by Keil

The Keil Evaluation Board introduces you to the NXP LPC ARM family and allows you to create and test working programs for this advanced architecture. The Keil Evaluation Board connects to your PC using the serial port or the JTAG interface (for program debug using the Keil ULINK USB-JTAG Adapter and the uVision IDE and Debugger).

Includes:

- LPC Evaluation Board
- Software

568-4300-ND	Evaluation Board for LPC210x	**$112.00**
568-4297-ND	Evaluation Board for LPC212x	**$158.05**

IAR Development Board for LPC2138

The IAR KickStart Kit for LPC2138 contains hardware and software and allows you to design and develop your applications.

LPC2138 Development Board Contains:
• 2 UARTS with drivers and DB9 connectors • ETM Routing • Potentiometer connected to the ADC • 2 x 16 LCD • JTAG Interface

Includes:

- Development Board
- IAR Embedded Workbench with 32kB version of IAR C/C++Complier

568-4298-ND	LPC2138 Development Board	**$132.13**
568-4299-ND	LPC2148 Development Board	**$158.05**

LPC213x Evaluation Board

The Keil MCB2130 Evaluation Board introduces you to the NXP LPC2130 ARM family and allows you to create and test working programs for this advanced architecture. Two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included.

Applications: LPC213x family

Includes:

- Development Board (with LPC2138)
- Development Software

568-2095-ND	Evaluation Board for LPC213x	**$132.13**

LPC214x Evaluation Board

The Keil MCB2140 Evaluation Board introduces you to the NXP LPC2140 ARM family and allows you to create and test working programs for this advanced architecture. An on-chip USB interface, two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included

Applications: LPC214x family

Includes:

- Development Board (with LPC2148)
- Development Software

568-2097-ND	Evaluation Board for LPC214x	**$158.05**

LPC2158 LCD Demo Kit

The LCDDemo-LPC2158 is a reference design for a low cost microcontroller and LCD solution using the NXP LPC2158 along with a few discrete external components. The board is controlled by a simple two-button user interface (mode and select).

The LCDDemo-LCP2158 can function as a single board computer since the powerful LPC2158 contains an ARM7TDMI-S microcontroller with 512kB of programmable flash memory and 40kB of RAM. Additionally, the 20-pin expansion header allows for the connection of external devices to the microcontroller directly through GPIO or through the SPI and I^2C interfaces.

Includes:

- LCDDemo-LPC2158 Board
- QuickStart Guide
- Software

568-4310-ND	LPC2158 LCD Demo Kit	**$72.60**

LPC23xx Evaluation Board

The Keil MCB23XX Evaluation Board introduces you to the NXP LPC2300 ARM7-based family and allows you to create and test working programs for this advanced architecture. Two serial interfaces, a speaker, analog input, two CAN interfaces, LCD, USB, Ethernet, and eight LEDs make this board a great starting point for your next ARM project.

Applications: LPC23xx family

Includes: • Evaluation Board • Software

568-3999-ND	Evaluation Board LPC237x	**$180.62**
568-4014-ND	Evaluation Board LPC236x	**$216.05**

LPC2387 Evaluation Board

The Keil MCB2387 Evaluation Board introduces you to the NXP LPC2387 microcontroller. It allows you to create and test working programs for this advanced architecture. The MCB2387 includes RealView MDK-ARM Evaluation Tools. These tools help you get started writing programs and testing the microcontroller and its capabilities. Sample applications which run on the MCB2387 are included.

Includes:
• MCB2300 Evaluation board populated with LPC2387 • RealView MDK-ARM Software • Quick Start Guide

568-4359-ND	LPC2387 Evaluation Board	**$261.00**

LPC2468 Evaluation Board by Embedded Artists

Embedded Artists' LPC2468 OEM Board (mounted on the OEM base board basic) lets you get up-and-running quickly with NXP's ARM7TDMI LPC24xx microcontroller series in general and with LPC2468 in particular. The board is only 66 x 80mm and is perfect for running uClinux with large on-board RAM and Flash. All processor signals are available on two 100-postion connectors for easy expansion.

Includes: • LPC2468 OEM Board • OEM Base Board Bundle

568-4303-ND	LPC2468 Evaluation Board	**$288.55**
568-4358-ND	QVGA TFT Display	**$108.11**

LPC2468 Evaluation Kit by Hitex

The LPC-Stick is a small modular evaluation kit with optional extension boards. The LPC-Stick package provides target hardware with the LPC2468 microcontroller from NXP, external SRAM, user pins and LEDs for application use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools, the LPC-Stick allows full access to all chip features, debugging and programming. To provide access to the most external capabilities of the LPC2468 chip, the stick allows to connect diverse extension boards over an 80-pin extension connector. The toolset does not require any power supply or cables, just install the tools and run the demo application! Debugging and user communication via USB at the same time! The extension connector allows the connection to accessory extension boards.

Available accessory kits are: COM board extension provides a set of communication features and pinouts (Ethernet and Phy, USB Host and Device, UART, SDCard, CAN Phy, external power).

568-4308-ND	LPC-Stick with LPC2468	**$88.00**
568-4309-ND	Extension Board for LPC-Stick	**$100.48**

LPC2478 Evaluation Board by Embedded Artists

Embedded Artists' LPC2478 OEM Board (mounted on the QVGA OEM Base Board with touch panel) lets you get up-and-running quickly with NXP's ARM7TDMI LPC24xx microcontroller series in general and with LPC2478 in particular. The OEM board has SODIMM format and is only 66 x 48mm and is perfect for running uClinux with large on-board RAM and FLASH. All processor signals are available on the 200 position connector for easy expansion.

Includes: • LPC2478 OEM Board • QVGA Base Board with touch panel

568-4369-ND	LPC2478 Evaluation Board	**$430.65**

LPC2478/LPC3250 Kits and Modules

The ARM-57TS is optimized to save development time in typical embedded control applications. The modular format uses a base Carrier Board, a core CPU DIMM Module and an LCD Carrier Board. The base Carrier Board includes expansion connectors for added flexibility and a range of configurations. The ARM7DIMM/ARM9DIMM Modules provide a quick and easy solution for implementing an ARM design by providing the basic functions necessary for a product on an easy to use DIMM module.

568-4741-ND	OM11076	**$413.00**
568-4742-ND	OM11077	**$82.53**
568-4743-ND	OM11078	**$466.10**
568-4744-ND	OM11079	**$106.84**

LPC2900 Evaluation Board

The Keil MCB2900 Evaluation Board introduces you to the NXP LPC2900 ARM family and allows you to create and test working programs for this advanced architecture. Two Serial and two CAN interfaces make this board a great starting point for your next ARM project.

Includes: • MCB2900 Evaluation Board • RealView MDK-ARM Software

568-4360-ND	LPC2900 Evaluation Board	**$218.20**

(Continued)

Development Tools for ARM Microcontrollers *(Cont.)*

NEW! LPC2939 Evaluation Board and Controller

ARM968E-S based microcontroller up to 125MHz with 2 x 32k TCM memory, 32k + 16k internal SRAM, 8kB ETM SRAM, 768kB internal FLASH, 16kB EEPROM, 8 channel DMA, external static memory controller, USB full speed device and host, 2 channel CAN, 2 LIN2 UART, 3 SPI, three 10bit ADC (one up to 5V), 4 timers, 4 PWMS quadrature encoder interface, watchdog and more. The board has an external 512k x 16k static RAM and 16MBit FLASH. Connectors for 2 UART, 2 CAN and USB device and host are available. In addition there are 3 buttons, two 7-segment LEDs and a connector for a motor control add on board. The board can be powered over USB or an optional power supply.

568-4787-ND	Evaluation Board LPC2939	**$158.05**
568-4786-ND	External Motor Control Add On Board	**$391.37**

NEW! LPC3131 Evaluation Kit

Embedded Artists' LPC3131 Evaluation Kit lets you get up-and-running quickly with the LPC3131 OEM Board. The LPC3131 OEM Board is equipped with NXP's ARM926EJ-S based LPC3131 microcontroller suitable for a wide range of applications requiring low power consumption, high performance and flexible USB connectivity.

Kit Contents:

- LPC3131 OEM Board
- LPC31xx Base Board v2.0
- USB Cable
- Headset with microphone

568-4850-ND	Evaluation Kit for LPC3131	**$308.85**

Bluestreak Evaluation Kits by LPD

The ZOOM™ Starter Development Kit (SDK) is a high-performance application development kit for evaluating the functionality of the System On Module Card Engine and associated processor.

Application development is performed right on the product-ready card engine and software Board Support Packages included in the kit, which enables you to seamlessly transfer your application code and hardware into production.

The card engine is ideal for applications in the medical, point-of-sale, industrial, and security markets.

568-4304-ND	ZOOM SDK for LH7A404	**$500.32**
568-4305-ND	ZOOM SDK for LH79524	**$500.32**
568-4306-ND	ZOOM SDK for LH75401	**$299.72**

Development Tools for LPC900

MCB900 Evaluation Board

The Keil MCB900 Evaluation Board is a versatile and flexible prototype board for the NXP P89LPC93x microcontroller family. The MCB900 includes the Keil µVision2 LPC Development Studio which allows you to create and debug programs that you can program into the on-chip Flash ROM using FlashMagic

Applications: P89LPC93x family

Includes: • MCB900 Evaluation Board (with P89LPC932) • µVision2 LPC Development Studio

568-1758-ND	Eval Board for LPC93x MCU Family	**$80.00**

EPM900 In-Circuit Debugger/Parallel Programmer

The Keil EPM900 Emulator supports in-circuit debugging and parallel Flash ROM programming for the NXP P89LPC9xx device family. The EPM900 connects directly to the µVision2 Debugger which provides full control over the user program execution. The Keil EPM900 Emulator includes the µVision2 LPC Development Studio which contains all the tools you need to generate small LPC applications.

Applications: P89LPC9xx family **Includes:** • EPM900 Emulator Board • µVision2 LPC Development Studio • USB Cable

568-1759-ND	Emulator Debugger/Programmer LPC9x	**$216.05**

Debuggers

U-LINK2 Debugger

The Keil ULINK2 USB-JTAG Adapter connects your PC's USB port to the target hardware (via JTAG, SWD, or OCDS) and allows you to debug embedded programs running on target hardware.

ULINK2 offers all the features of the original ULINK USB-JTAG Adapter and adds serial wire debug (SWD) support, return clock support, and a real-time agent. ULINK2 works with standard Windows USB drivers.

568-4061-ND	U-LINK2 Debugger	**$373.95**

J-Link Debugger

The IAR J-Link is a JTAG debugger that connects via USB to the PC host running Windows. IAR J-Link integrates seamlessly into IAR Embedded Workbench for ARM and is fully plug-and-play compatible

Features: • Support for all ARM7/ARM9 cores, including Thumb mode • DCC speed up to 800kB/sec • Automatic core recognition • Auto speed recognition

Includes: • USB • 20-pin flat cable

568-4062-ND	J-Link Debugger	**$303.05**

I^{2}C Development Tools

I^{2}C/SPI-to-UART Demo Board

The NXP I^{2}C/SPI-to-UART demo board demonstrates the SC16IS752 series of bridge ICs which provide high-speed serial data communications between an SPI or an I^{2}C-host and a UART device via RS-232/RS-485 while providing IrDA and GPIO interfaces.

The demo board features the SC16IS752 I^{2}C/SPI slave-to-UART/IrDA/GPIO bridge, an NXP P89LPC935 microcontroller, which controls the bridge IC, an IrDA module for wireless communication and LEDs connected to the GPIO.

Includes: • Demo Board • Cable • User Manual

568-4000-ND	I^{2}C/SPI-to-Dual UART Demo Board	**$104.00**

PCA9564 Demo Board

The PCA9564 Evaluation Board demonstrates the I^{2}C bus controllers ability to interface between a master (connected to its parallel bus and its control signals) and any master and slave devices connected to its I^{2}C bus.

The evaluation board is populated with the following devices and functions: An external 9V DC power supply is used to provide power to the 3.3V on-board voltage regulator. The P89LPC932 and P89LV51 are both limited to a 3.3V supply voltage.

Includes: • Demo Board • Power Supply

568-4001-ND	PCA9564 Demo Board	**$42.55**

I^{2}C Master Demo Board

The I^{2}C 2002-1A Evaluation Board is a low-cost I^{2}C-based system that allows designers to use their PC to easily test and demonstrate new I^{2}C devices in a platform that allows multiple operations to be performed in a setting similar to a real system environment.

Includes:

- I^{2}C 2002-1A Evaluation Board
- I^{2}C PORT v2 Adapter Card
- USB Adapter Card
- Power Supply
- Software

568-4002-ND	I^{2}C Master Demo Board	**$232.00**

FDI NXP Programmers

USB-ICP supports In-Circuit Programming or ICP mode on NXP's microcontroller families such as the LPC9xx, 80C51, and ARM7. In-Circuit Programming uses a two-wire serial interface to program and erase ICP enabled microcontroller devices without removing them from the system. A small connector is all that is needed to interface your application to the USB-ICP programmer.

Features: • USB port power; no external power supply required • Supports USB 2.0

Includes: • USB-ICP dongle • 18" cable for direct connection to board • ICP design guide

The NXP LPC2468 ARM7 microcontroller based industrial reference design (IRD) is optimized to save development time in typical industrial control applications. Its modular format uses a base, core and application board for added flexibility and a range of configurations. The kit is preconfigured with the IAR EWARM development environment, Micrium uC/OSII operating system, and protocol stacks for Ethernet, USB Host/Device, CAN, and I^{2}C.

Kit Includes: • LPC2468 Core Board • IRD Base Board

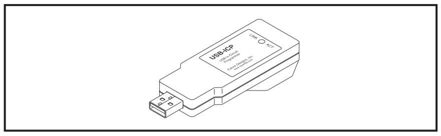

622-1001-ND	USB-ICP-80C51ISP	**$69.00**
622-1002-ND	USB-ICP-LPC9XX	**$69.00**
622-1005-ND	USB-ICP-LPC2K	**$79.00**
622-1006-ND	USB-ICP-SAB9 (Socket adapter for USB-ICP-LPC9XX)	**$154.70**
622-1022-ND	(Socket adapter for 100-TFBGA)	**$198.17**

USB Programming Dongle

The USB-Dongle provides a Virtual COM Port interface to the PC and allows hex files to be downloaded and programmed using Flash Magic or other common utilities. The USB-Dongle provides all power needed by the various Derivative Boards so no external power supply is required. The USB-Dongle plugs directly into any standard USB port on a PC and supports both USB 1.0/1.1 and USB 2.0.

622-1007-ND	(USB-Dongle) USB Programming Dongle (Derivative Boards not included)	**$20.00**
622-1013-ND	(DB-LQFP48-LPC2103) Board for LPC2103 48-LQFP	**$9.50**
622-1017-ND	(DB-PLCC44SKT) Board for 44-ZIF PLCC Socket	**$49.00**

PCA9633 Demo Board

The PCA9633 Demo Board demonstrates the NXP PCA9633 Fast Mode Plus 4-bit I^{2}C LED Driver IC. Four LEDs are connected to the PCA9633 and, through individual pulse width modulation (PWM) of each LED, show different levels of intensity. The board supports six different modes of operation including color wash and random color. The on-board Flash microcontroller is also user reprogrammable for endless variations of functionality. It also includes high-current FET drivers for off board LED circuitry. Power can be supplied by either the onboard 9VDC battery or through the external power connector.

622-1004-ND	PCA9633DEMO	**$69.00**

LPC1768 Development Kit

The NXP LPC1768 Cortex-M3 microcontroller based industrial reference design (IRD) is optimized to save development time in typical industrial control applications. Its modular format uses a base, core, and application board configuration for added flexibility. The kit is pre-configured to work with Keil uVision3 development environment and example code for converting your ARM7 application to NXP Cortex-M3 LPC176x microcontroller series devices.

622-1032-ND	IRD-LPC1768-DEV	**$395.00**

PCF2123 Demo Board

The NXP RTC Demo PCF2123 is a reference design for a low power Real Time Clock and LCD solution with an available I^{2}C temperature sensor. The Demo Board is controlled by a simple two-button user interface (MODE and SELECT). Example code for several sample applications: a programmable time and date display, a programmable countdown timer, and a repeating pattern of text lines. The user can edit this code and download to the reprogrammable Flash microcontroller via a 10-pin header included on the board using any external ICP style programmer.

622-1027-ND	RTC-DEMO-PCF2123	**$69.00**

USB-MPC Kit

This USB to Multi-Protocol Converter (MPC) provides USB (V1.1 or V2.0) communications with I^{2}C and MDIO devices. The provided Windows software drivers (2000 and XP) allow a user to quickly connect to a device, read/write individual registers and execute sequences of instructions. Device Descriptor Files (DDF) allows the user to add support for new I^{2}C and MDIO devices with easy to read text files.

622-1026-ND	USB-MPC-KIT	**$299.00**

LPC2478/LPC3250 Kits and Modules

The ARM-57TS is optimized to save development time in typical embedded control applications.

The modular format uses a base Carrier Board, a core CPU DIMM Module and an LCD Carrier Board.

The base Carrier Board includes expansion connectors for added flexibility and a range of configurations.

The ARM7DIMM/ARM9DIMM Module provides a quick and easy solution for implementing an ARM design by providing the basic functions necessary for a product on an easy to use DIMM module.

622-1034-ND	***NEW!*** DK-35TS-LPC2478	**$368.95**
622-1028-ND	DK-57TS-LPC2478	**$425.00**
622-1033-ND	***NEW!*** DK-57VTS-LPC2478	**$460.00**
622-1029-ND	SOMDIMM-LPC2478	**$74.50**
622-1030-ND	DK-57TS-LPC3250	**$480.00**
622-1035-ND	***NEW!*** DK-57VTS-LPC3250	**$531.25**
622-1031-ND	SOMDIMM-LPC3250	**$119.00**

TEXAS INSTRUMENTS

Flash Emulation Tools

A powerful tool that includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430™ Flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the PC which greatly simplifies the set-up and use of the tool.

MSP-FET430P120: Applications: MSP430F11x1, MSP430F12x, MSP430F11x2 and MSP430F12x2 product families **Includes:** • MSP430F12x FET development board with 28 SOIC ZIF socket, LED indicator, FET to PC cable and header pinouts for prototyping • Two F1232 flash devices • Two MSP430F123 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

MSP-FET430UIF: This is a USB interface pod (does not include target board) that is used to program and debug MSP430 FET tools and test boards through the JTAG interface. Similar to the Parallel Port interface pod included in our previous FET tools, the USB pod uses a USB PC port to communicate to the Debugger Software (IAR Kickstart software included) running on the PC. The USB interface pod uses the standard 14 pin header to communicate to the MSP430 device either using the standard JTAG or pin saving Spy Bi-Wire (2-wire JTAG) protocol (information about which protocol is supported by the MSP430 derivative can be found in the device specific data sheet). The tool has an integrated software environment and connects directly to the PC. The flash development tool supports development with all MSP430 flash parts.

MSP-FET430UXX: This includes the hardware and software required to complete much of your application development work. The tool has an integrated software environment and connects directly to the USB port of a PC which greatly simplifies the set-up and use of the tool. **Includes:** • FET development board • LED indicator • USB to JTAG adapter • Cables and header pinouts for prototyping • Two MSP430F2274IDA flash devices • Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

MSP-FET430U5X100: This flash emulation tool (FET) includes the hardware and software required to quickly begin application development on the MSP430 MCU. It includes a ZIF socket target board (MSP-TS430PZ5X100) and a USB debugging interface (MSP-FET430UIF) used to program and debug the MSP430 in-system through the JTAG interface or the Spy Bi-Wire (2-wire JTAG) protocol.

MSP-GANG430: This in-system gang programmer tool can be used to program up to 8 MSP430 FLASH devices simultaneously. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming. The programming can be done with a PC or standalone. Since the graphical user interface (GUI) is DLL-based the DLL can be used independently from the GUI. Several examples show how the DLL could be applied at various high level languages (C, C++, VisualBasic, LabView) **Includes:** • In circuit gang programmer • One Cable Sub-D 9 Pin and one Cable Sub-D 25 Pin • Target expansion board • Eight 14-pin cables for connectivity of up to 8 targets • Read Me First • CD-ROM with MSP-GANG430 SW and MSP-GANG430 User's Guide. *External power supply is required and not included with MSP-GANG430. The voltage of the power supply must be between 9Vdc and 15Vdc and must be capable of providing a minimum current of 300mA.*

296-16696-ND	MSP-FET430P120	**$101.00**
296-22900-ND	MSP-FET430UIF	**$99.00**
296-22908-ND	MSP-FET430U14 (14 pin TSSOP)	**$76.00**
296-23115-ND	MSP-FET430U23X0 (40-pin RHA)	**$152.00**
296-22910-ND	MSP-FET430U28 (20 and 28 pin SOWB)	**$152.00**
296-22904-ND	MSP-FET430U38 (38 pin TSSOP)	**$152.00**
296-22902-ND	MSP-FET430U64 (64 pin QFP)	**$152.00**
296-23448-ND	MSP-TS430PZ5X100	**$76.50**
296-24191-ND	MSP-TS430PM64	**$76.50**
296-23449-ND	MSP-FET430U5X100	**$152.00**
296-22901-ND	MSP-GANG430	**$203.00**

MSP430™ USB Development Stick

Complete Development Tool including all the hardware and software to evaluate the MSP430F2013 and develop a complete project in a convenient USB stick form factor. The USB port provides enough power to operate the ultra-low-power MSP430 so no external power supply is required.

Features: • Development Tool including a USB debugging interface and detachable target board • LED indicator • Removable USB stick enclosure • Debugging interface supports development with all MSP430F20xx devices • Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

296-20630-ND	EZ430-F2013	**$20.40**

MSP-EVK430S320 Evaluation Kit

The MSP-EVK430S320 evaluation kit supports the MSP430x32x family of devices and comes with the PMS430E325FZ (UV EPROM) assembled in a socket.

Kit Includes: • MSP430 EVK board with UV erasable EPROM, LCD, PC connector • MSP-PRGS430 serial programming adapter • IAR Kickstart IDE, assembler, linker and limited C-compiler • CD-ROM with software tools and complete documentation

296-13849-ND	MSP-EVK430S320	**$407.00**

MSP-PRGS430 Serial Programmer

This serial programming adapter is a second-generation programming tool that can be used to program any MSP430 Flash, OTP or UV-EPROM device. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming. • *Power supply not included. Recommend T992-P5P-ND* **Applications:** • MSP430 Flash • OTP or UV-EPROM device

Includes: • MSP-PRGS430 programmer • Serial cable • Target cable • CD-ROM • Documentation

296-16698-ND	MSP-PRGS430	**$246.46**

MSP-FET430PIF Interface Debug for MSP430™ FET

Kit Includes: • One READ ME FIRST document • One MSP430 CD-ROM • One MSP-FET430PIF interface module • One 25-conductor cable • One 14-conductor cable.

296-23000-ND	MSP-FET430PIF	**$50.00**

MSP-FET430U80 Programmer/Debug Kit

This powerful flash emulation tool includes the hardware and software required to begin application development on the MSP430 MCU. It includes a ZIF socket target board and a USB debugging interface (MSP-FET430UIF) used to program and debug the MSP430 in-system through the JTAG interface or Spy Bi-Wire (2-wire JTAG) protocol. The debugging tool interfaces the MSP430 to the included integrated software environment and includes code to start your design. The MSP-FET430U80 supports all MSP430 flash parts in an 80-pin LQFP package.

296-23005-ND	MSP-FET430U80	**$152.00**

NEW! MSP-TS430PW14 Target Board

A standalone ZIF socket target board used to program and debug the MSP430 in-system through the JTAG interface or the Spy Bi-Wire (2-wire JTAG) protocol. The development board supports some MSP430 Flash parts in a 14-pin TSSOP package (TI package code: PW). Please check your target's device documentation to find the correct target board.

Features: A separate debugging and programming interface is required to work with the board. A flash emulation tool (FET) may be purchased independently or bundled.

296-25885-ND	MSP-TS430PW14	**$76.50**

NEW! MSP430 LaunchPad Value Line Development Kit

The MSP-EXP430G2 LaunchPad is an easy-to-use flash programmer and debugging tool that provides everything you need to start developing on MSP430 Value Line devices. It includes a 14-/20-pin DIP socketed target board with integrated emulation to quickly program and debug MSP430 Value Line devices in-system through the Spy Bi-Wire (2-wire JTAG) protocol.

296-27570-ND	(MSP-EXP430G2)	LaunchPad Development Kit	**$4.35**

C2000 Piccolo controlSTICK, controlCARD

USB Piccolo controlSTICK Evaluation Tool: The innovative Piccolo controlSTICK allows quick and easy evaluation with all of the advanced capabilities of Texas Instruments' new Piccolo microcontroller. **Features:** • On-board JTAG emulation • Access to all control peripherals

Piccolo controlCARD: The C2000 controlCARDs from Texas Instruments are complete board-level modules that utilize an industry-standard DIMM form factor to provide a low-profile single-board controller solution. **Features:** • Standard 100-pin DIMM interference • F28x analog I/O, digital I/O and JTAG signals at DIMM interface • Isolated RS-232 interface • 5V power supply required

Piccolo Experimenter Kit: The Piccolo Experimenter Kit has a docking station that features on board USB JTAG emulation, access to all controlCARD signals, breadboard areas and RS-232 and JTAG connectors. Each kit contains a 28027 controlCARD. The controlCARD is a complete board-level module that utilizes an industry-standard DIMM form factor to provide a low-profile single-board controller solution. **Includes:** • Code Composer Studio™ IDEv3.3 C28x™ Free 32K Byte Version and USB Cable.

296-24041-ND	(TMDX28027USB)	USB Piccolo controlSTICK Evaluation Tool	**$40.50**
296-24042-ND	(TMDXCNCD28027)	Piccolo controlCARD	**$50.88**
296-24043-ND	(TMDXDOCK28027)	Piccolo Experimenter Kit for TMDS320F28X	**$82.03**

Experimenter Board for MSP430™

The MSP430FG4618 and MSP430F5438 experimenter boards are based on the ultra-low power MSP430 microcontroller family.

296-23006-ND	MSP-EXP430FG4618	**$101.00**
296-24190-ND	MSP-EXP430F5438	**$152.00**

Target Board for EZ430-F2013 Development Tool

Features: • Three eZ430-T2012 target boards with a 4-pin connector to fit the eZ430-F2013 USB Development Tool MSP430F2012-based target board • Fully accessible pins • LED indicator

296-23007-ND	EZ430-T2012	**$10.20**

Development Wireless Tool for MSP430™/CC2500

Features: • USB debugging and programming interface featuring a driverless installation and application backchannel • 21 available development pins • Highly integrated, ultra-low power MSP430 MCU with 16MHz performance • Two general-purpose digital I/O pins connected to green and red LEDs for visual feedback • Interruptible push button for user feedback.

296-23031-ND	EZ430-RF2500	**$50.00**

NEW! EZ430-RF2560 Bluetooth Evaluation Tool

The eZ430-RF2560 is a complete TI Bluetooth® evaluation and software development tool for the MSP430 and CC2560 that includes all the necessary hardware and software in a convenient USB stick. The tool includes a USB-powered emulator to program and debug your application and two cc2560-based Bluetooth target boards featuring the highly integrated MSP430BT5190 ultra-low-power MCU

296-27527-ND	(EZ430-RF2560)	Development Wireless Tool for MSP430/CC2560	**$101.00**

Adapter mini-B USB Interface EVM

This EVM serves as an interface adapter or a bridge between a host PC (IBM™ compatible) and one or multiple slave devices via a standard type-A to mini-B USB cable. The communication between the USB interface adapter and the host PC is via USB, communication between the USB interface adapter and the slave device (s) is via an inter-integrated circuit (I^2C), SMBus, PMBus and/or general-purpose inputs/outputs GPIOs.

296-23114-ND	USB-TO-GPIO	**$50.00**

Wireless Solar Energy Harvesting for MSP430™

The eZ430-RF2500-SEH is a complete Solar Energy Harvesting development kit to help create a perpetually powered wireless sensor network based on the ultra-low-power MSP430 microcontroller. The Solar Energy Harvester module includes a high-efficiency solar panel optimized for operating indoors under low-intensity fluorescent lights, which provides enough power to run a wireless sensor application with no additional batteries. Inputs are also available for external energy harvesters such as thermal, piezoelectric, or another solar panel.

(*Includes Cymbet EnerChip™ Module 859-1000-5-ND.*)

296-24121-ND	(EZ430-RF2500-SEH)	Development Wireless Tool for MSP430	**$152.00**

TEXAS INSTRUMENTS

TMS370C756A 8-Bit Microcontroller

The TMS370Cx5x family of single-chip 8-bit microcontrollers provides cost-effective real-time system control through integration of advanced peripheral function modules and various on-chip memory configurations. This device is implemented using high-performance silicon-gate CMOS, EPROM and EEPROM technologies. The low-operating power, wide-operating temperature range, and noise immunity of CMOS technology, coupled with the high performance and extensive on-chip peripheral functions, make the TMS370Cx5x devices attractive in system designs for automotive electronics, industrial motor control, computer peripheral control, telecommunications and consumer application. • **Maximum Clock Frequency:** 20MHz • **Operating Temperature:** -40°C ~ 85°C

Memory Size		I/O	Timer (16-Bit)	ADC	Vcc	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
Program EPROM	Data RAM/EEPROM							1	25	100	
							TMS370 Family				
16K	512/512	46	2	8-Ch., 8-Bit	5V ±10%	68-PLCC	296-10770-5-ND	21.90	18.62	17.25	TMS370C756AFNT

MSP430™ Ultra-Low Power Microcontrollers

The MSP430 family of ultra-low power 16-bit RISC mixed-signal processors provides the ultimate solution for battery-powered measurement applications. **Features:** • Ultra-low power architecture extends battery life 0.1uA RAM retention, 0.8uA real-time clock mode, 250uA/MIPS active • High-performance analog ideal for precise measurements • Modern 16-bit RISC CPU enables new applications at a fraction of the code size • In-system programmable Flash permits code changes, field upgrades and data logging • 16-Bit MSP430 Architecture, a 16-bit RISC CPU, peripherals and flexible clock system are combined by using a von-Neumann common memory address bus (MAB) and memory data bus (MDB) **Memory Options:** • Flash, ROM, OTP versions (from 1KB to 60KB) • DMA controller **Modern 16-Bit RISC CPU:** • Optimized for C and assembler programming • Up to 8 MIPS of performance available **Operating Temperature:** -40°C ~ 85°C

Memory Size Flash (Program)	SRAM (Byte)	I/O	Timer (16-Bit)	ADC Ch/Res	UART/ SPI	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Texas Instruments Part No.
										1	25	100	Qty.	Pricing	
									Flash Based F1xx Family						
1K	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-15781-5-ND◆	2.95	2.38	2.14	—	—	MSP430F1101AIDGV
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13768-5-ND◆	2.95	2.38	2.14	—	—	MSP430F1101AIDW
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13720-5-ND◆	2.95	2.38	2.14	—	—	MSP430F1101AIPW
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-16765-1-ND‡◆	3.00	2.45	2.20	250	462.50	MSP430F1101AIRGET
	128	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-6505-5-ND◆	2.95	2.38	2.14	—	—	MSP430F1101IDW
	128	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-9608-5-ND◆	2.95	2.38	2.14	—	—	MSP430F1101IPW
2K	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-15782-5-ND◆	3.08	2.48	2.26	—	—	MSP430F1111AIDGV
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-12633-5-ND◆	3.08	2.48	2.26	—	—	MSP430F1111AIDW
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-12634-5-ND◆	3.08	2.48	2.26	—	—	MSP430F1111AIPW
	128	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-16762-1-ND‡◆	3.45	2.82	2.53	250	531.88	MSP430F1111AIRGET
4K	256	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-12703-5-ND◆	3.92	3.15	2.87	—	—	MSP430F1121AIDGV
	256	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13457-5-ND	3.92	3.15	2.87	—	—	MSP430F1121AIDW
	256	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13458-5-ND◆	3.92	3.15	2.87	—	—	MSP430F1121AIPW
	256	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-26173-1-ND‡◆ ***NEW!***	4.20	3.43	3.08	2,000	1862.00/M	MSP430F1121AIPWR
	256	14	3	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-15891-1-ND‡◆	4.20	3.43	3.08	3,000	1862.00/M	MSP430F1121AIRGER
	256	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-6507-5-ND◆	3.92	3.15	2.87	—	—	MSP430F1121IDW
	256	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-6508-5-ND◆	3.92	3.15	2.87	—	—	MSP430F1121IPW
	256	14	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-9610-5-ND◆	4.20	3.38	3.08	—	—	MSP430F112IPW
	256	14	1	Slope	—	DC-5.35MHz	2.5 ~ 5.5	20-SOIC	296-6510-5-ND◆	6.72	5.40	4.92	—	—	MSP430P112IDW
	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13776-5-ND◆	4.62	3.72	3.39	—	—	MSP430F1122IDW
	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13777-5-ND◆	4.62	3.72	3.39	—	—	MSP430F1122IPW
	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-17137-1-ND‡◆	5.10	4.17	3.74	250	786.25	MSP430F1122IRHBT
	256	22	3	Slope	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-12082-5-ND◆	4.62	3.72	3.39	—	—	MSP430F122IPW
	256	22	3	Slope	1	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-15851-1-ND‡	4.95	4.05	3.63	3,000	2194.50/M	MSP430F122IRHBR
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13780-5-ND◆	5.04	4.05	3.69	—	—	MSP430F1222IDW
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-13781-5-ND◆	5.04	4.05	3.69	—	—	MSP430F1222IPW
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-16794-1-ND‡◆	5.55	4.54	4.07	250	855.63	MSP430F1222IRHBT
8K	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13778-5-ND◆	5.60	4.50	4.10	—	—	MSP430F1132IDW
	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13779-5-ND◆	5.60	4.50	4.10	—	—	MSP430F1132IPW
	256	14	1	5-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-26175-1-ND◆‡ ***NEW!***	6.00	4.90	4.40	2,000	2660.00/M	MSP430F1132IPWR
	256	14	3	5-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-17133-1-ND‡◆	6.15	5.03	4.51	250	948.13	MSP430F1132IRHBT
	256	22	3	Slope	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13101-5-ND◆	5.04	4.05	3.69	—	—	MSP430F123IDW
	256	22	3	Slope	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-12083-5-ND◆	5.04	4.05	3.69	—	—	MSP430F123IPW
	256	22	3	Slope	1	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-15852-1-ND‡◆	5.40	4.41	3.96	3,000	2394.00/M	MSP430F123IRHBR
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13782-5-ND◆	5.74	4.62	4.21	—	—	MSP430F1232IDW
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-13783-5-ND◆	5.74	4.62	4.21	—	—	MSP430F1232IPWww
	256	22	3	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	32-VQFN	296-16795-1-ND‡◆	6.15	5.03	4.51	3,000	2727.00/M	MSP430F1232IRHBR
	256	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15894-ND◆	7.38	6.05	5.46	—	—	MSP430F133IPAG
	256	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9611-ND◆	7.38	6.05	5.46	—	—	MSP430F133IPM
	256	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17141-1-ND‡◆	7.95	6.60	6.00	250	1275.00	MSP430F133IRTDT
	256	48	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15857-1-ND‡◆	6.63	5.50	5.00	1,000	3375.00	MSP430FW423IPMR
16K	256	48	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15858-1-ND‡◆	7.42	6.16	5.60	1,000	3780.00	MSP430FW425IPMR
	512	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15892-ND◆	8.63	7.08	6.39	—	—	MSP430F135IPAG
	512	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9612-ND◆	8.63	7.08	6.39	—	—	MSP430F135IPM
	512	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17142-1-ND‡◆	9.28	7.70	7.00	250	1487.50	MSP430F135IRTDT
	512	48	6	8-Ch., 12-Bit	1 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16837-ND◆	12.13	9.95	8.98	—	—	MSP430F155IPM
	512	48	2	8-Ch., 12-Bit	1 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-26187-1-ND◆‡ ***NEW!***	12.85	10.67	9.70	1,000	6548.00	MSP430F155IPMR
	512	48	6	8-Ch., 12-Bit	1 with I^2C	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-21438-1-ND‡◆	12.99	10.78	9.80	250	2082.50	MSP430F155IRTDT
24K	1024	48	6	8-Ch., 12-Bit	1 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16838-ND◆	11.11	9.35	8.59	—	—	MSP430F156IPM
32K	256	48	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15859-1-ND‡◆	8.22	6.82	6.20	1,000	4185.00	MSP430FW427IPMR
	1024	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15893-ND◆	11.13	9.13	8.24	—	—	MSP430F147IPAG
	1024	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9613-ND◆	11.13	9.13	8.24	—	—	MSP430F147IPM
	1024	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15701-ND◆	10.25	8.41	7.59	—	—	MSP430F1471IPM
	1024	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17143-1-ND‡◆	11.00	9.13	8.30	250	1763.75	MSP430F147IRTDT
	1024	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17144-1-ND‡◆	11.93	9.90	9.00	250	1912.50	MSP430F1471IRTDT
	1024	48	6	8-Ch., 12-Bit	1 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16839-ND◆	11.77	9.90	9.10	—	—	MSP430F157IPM
	1024	48	10	8-Ch., 12-Bit	2 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16840-ND◆	13.64	11.47	10.54	—	—	MSP430F167IPM
	5120	48	10	8-Ch., 12-Bit	2 with I^2C	DC-4.15MHz	1.8 ~ 3.6	64-LQFP	296-18501-ND◆	17.27	14.53	13.35	—	—	MSP430F1610IPM
	5120	48	10	8-Ch., 12-Bit	2 with I^2C	DC-4.15MHz	1.8 ~ 3.6	64-VQFN	296-18101-1-ND‡◆	18.17	15.41	14.22	250	3061.25	MSP430F1610IRTDT
48K	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15856-ND◆	12.00	9.84	8.88	—	—	MSP430F148IPAG
	2048	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15702-ND◆	11.50	9.43	8.51	—	—	MSP430F1481IPM
	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9614-ND◆	12.00	9.84	8.88	—	—	MSP430F148IPM
	2048	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17145-1-ND‡◆	12.32	10.23	9.30	250	1976.25	MSP430F1481IRTDT
	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17146-1-ND‡◆	12.85	10.67	9.70	250	2061.25	MSP430F148IRTDT
	2048	48	10	8-Ch., 12-Bit	2 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16841-ND◆	15.07	12.68	11.65	—	—	MSP430F168IPM
	2048	48	10	8-Ch., 12-Bit	2 with I^2C	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-20716-1-ND‡◆	15.87	13.46	12.42	250	2673.75	MSP430F168IRTDT
	10240	48	10	8-Ch., 12-Bit	2 with I^2C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17205-ND◆	18.15	15.27	14.03	—	—	MSP430F1611IPM
	10240	48	10	8-Ch., 12-Bit	2 with I^2C	DC-4.15MHz	1.8 ~ 3.6	64-VQFN	296-18102-1-ND‡◆	19.09	16.19	14.94	250	3216.25	MSP430F1611IRTDT

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ∆ Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C ★ Operating Temperature: -55°C ~ 125°C

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Memory Size Flash (Program)	SRAM (Byte)	I/O	Timer (16-Bit)	ADC Ch/Res	UART/ SPI	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Texas Instruments Part No.
										1	25	100	Qty.	Pricing	
55K	5120	48	10	8-Ch., 12-Bit	2 with I^{2}C	DC-4.15MHz	1.8 ~ 3.6	64-LQFP	296-17885-ND◆	18.81	15.82	14.54	—	—	MSP430F1612IPM
	5120	48	10	8-Ch., 12-Bit	2 with I^{2}C	DC-4.15MHz	1.8 ~ 3.6	64-VQFN	296-18103-1-ND‡◆	19.78	16.77	15.48	250	3332.50	MSP430F1612IRTDT
60K	2048	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15703-ND◆	12.25	10.05	9.07	—	—	MSP430F1491IPM
	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-13102-ND◆	11.55	9.72	8.93	—	—	MSP430F149IPAG
	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9615-ND◆	11.55	9.72	8.93	—	—	MSP430F149IPM
	2048	48	10	Slope	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17147-1-ND‡◆	13.12	10.89	9.90	250	2103.75	MSP430F1491IRTDT
	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17556-1-ND‡◆	12.19	10.34	9.54	250	2053.75	MSP430F149IRTDT
	2048	48	10	8-Ch., 12-Bit	2 with I^{2}C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16842-ND◆	16.17	13.60	12.50	—	—	MSP430F169IPM
	2048	48	10	8-Ch., 12-Bit	2 with I^{2}C	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17009-1-ND‡◆	16.91	14.34	13.23	1,000	9776.00	MSP430F169IPMR
	2048	48	10	8-Ch., 12-Bit	2 with I^{2}C	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-21320-1-ND‡◆	17.02	14.43	13.32	250	2867.50	MSP430F169IRTDT
ROM/OTP Based X2xx Family with LCD Driver — EPROM/OTP (Program) Memory															
512	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-PDIP	296-27481-5-ND◆ ***NEW!***	1.72	1.38	1.21	—	—	MSP430G2001IN14
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-25828-5-ND◆ ***NEW!***	1.20	.96	.84	—	—	MSP430G2001IPW14
1K	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19685-5-ND◆	1.55	1.25	1.13	—	—	MSP430F2001IN
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19686-1-ND‡◆	1.75	1.35	1.23	2,000	675.00/M	MSP430F2001IPWR
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19687-1-ND‡◆	1.93	1.49	1.35	250	275.00	MSP430F2001IRSAT
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19688-5-ND§◆	1.71	1.38	1.24	—	—	MSP430F2001TN
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19689-1-ND‡§◆	1.93	1.49	1.35	2,000	742.50/M	MSP430F2001TPWR
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19690-1-ND‡§◆	2.10	1.62	1.47	250	300.00	MSP430F2001TRSAT
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19724-5-ND◆	2.17	1.75	1.58	—	—	MSP430F2002IN
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-26190-5-ND◆ ***NEW!***	2.17	1.75	1.58	—	—	MSP430F2002IPW
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19725-1-ND‡◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2002IPWR
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19726-1-ND‡◆	2.63	2.03	1.84	250	375.00	MSP430F2002IRSAT
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19727-5-ND§◆	2.48	2.00	1.80	—	—	MSP430F2002TN
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19728-1-ND‡§◆	2.80	2.16	1.96	2,000	1080.00/M	MSP430F2002TPWR
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19729-1-ND‡§◆	2.98	2.30	2.09	250	425.00	MSP430F2002TRSAT
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19691-5-ND◆	3.08	2.48	2.26	—	—	MSP430F2003IN
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19692-1-ND‡◆	3.45	2.82	2.53	250	531.88	MSP430F2003IRSAT
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19693-5-ND§◆	3.50	2.82	2.57	—	—	MSP430F2003TN
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19694-1-ND‡§◆	3.75	3.07	2.75	2,000	1663.00/M	MSP430F2003TPWR
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19695-1-ND‡§◆	3.90	3.19	2.86	250	601.25	MSP430F2003TRSAT
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19313-1-ND‡◆	3.30	2.70	2.42	2,000	1463.00/M	MSP430F2003IPWR
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18104-ND◆	1.86	1.50	1.35	—	—	MSP430F2101IDGV
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18105-1-ND‡◆	2.10	1.62	1.47	2,000	810.00/M	MSP430F2101IDWR
	128	16	1	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-25476-5-ND◆ ***NEW!***	1.86	1.50	1.35	—	—	MSP430F2101IPW
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18106-1-ND‡◆	2.10	1.62	1.47	2,000	810.00/M	MSP430F2101IPWR
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18107-1-ND‡◆	2.28	1.76	1.60	250	325.00	MSP430F2101IRGET
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20749-1-ND‡§◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2101TDGVR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20750-1-ND‡§◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2101TDWR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20751-1-ND‡§◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2101TPWR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20752-1-ND‡§◆	2.63	2.03	1.84	250	375.00	MSP430F2101TRGET
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-27482-5-ND◆ ***NEW!***	1.86	1.50	1.35	—	—	MSP430G2101IN14
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-27469-1-ND‡◆ ***NEW!***	1.66	1.32	1.18	2,000	612.00/M	MSP430G2101IPW14R
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-27483-5-ND◆ ***NEW!***	2.02	1.63	1.47	—	—	MSP430G2121IN14
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-27470-1-ND‡◆ ***NEW!***	1.73	1.37	1.24	2,000	638.00/M	MSP430G2121IPW14R
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-27471-1-ND‡◆ ***NEW!***	1.88	1.49	1.34	2,000	692.00/M	MSP430G2131IPW14R
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	16-QFN	296-27472-1-ND‡◆ ***NEW!***	1.93	1.49	1.35	3,000	743.00/M	MSP430G2131IRSA16R
2K	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19696-5-ND◆	1.86	1.50	1.35	—	—	MSP430F2011IN
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19697-1-ND‡◆	2.10	1.62	1.47	2,000	810.00/M	MSP430F2011IPWR
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19698-1-ND‡◆	2.28	1.76	1.60	250	325.00	MSP430F2011IRSAT
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19699-5-ND§◆	2.17	1.75	1.58	—	—	MSP430F2011TN
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19700-1-ND‡§◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2011TPWR
	128	10	2	Slope	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19701-1-ND‡§◆	2.63	2.03	1.84	250	375.00	MSP430F2011TRSAT
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19730-5-ND◆	2.79	2.25	2.03	—	—	MSP430F2012IN
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19731-1-ND‡◆	3.15	2.43	2.21	2,000	1215.00/M	MSP430F2012IPWR
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19732-1-ND‡◆	3.33	2.57	2.33	250	475.00	MSP430F2012IRSAT
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19733-5-ND§◆	3.07	2.48	2.23	—	—	MSP430F2012TN
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19734-1-ND‡§◆	3.47	2.68	2.43	2,000	1336.50/M	MSP430F2012TPWR
	128	10	2	8-Ch., 10-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19735-1-ND‡§◆	3.15	2.58	2.31	250	485.63	MSP430F2012TRSAT
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19702-5-ND◆	3.36	2.70	2.46	—	—	MSP430F2013IN
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19703-1-ND‡◆	3.75	3.07	2.75	250	578.25	MSP430F2013IRSAT
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19704-5-ND§◆	3.78	3.04	2.77	—	—	MSP430F2013TN
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-26194-5-ND◆ ***NEW!***	3.78	3.04	2.77	—	—	MSP430F2013TPW
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19705-1-ND‡§◆	4.05	3.31	2.97	2,000	1795.50/M	MSP430F2013TPWR
	128	10	2	4-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	16-VQFN	296-19706-1-ND‡§◆	4.20	3.43	3.08	250	647.50	MSP430F2013TRSAT
	128	10	2	3-Ch., 16-Bit	—	DC-6.0MHz	1.8 ~ 3.6	14-TSSOP	296-19262-1-ND‡◆	3.60	2.94	2.64	2,000	1596.00/M	MSP430F2013IPWR
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18108-ND◆	2.17	1.75	1.58	—	—	MSP430F2111IDGV
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-26195-5-ND◆ ***NEW!***	2.17	1.75	1.58	—	—	MSP430F2111IDW
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18109-1-ND‡◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2111IDWR
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-26196-5-ND◆ ***NEW!***	2.17	1.75	1.58	—	—	MSP430F2111IPW
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18110-1-ND‡◆	2.45	1.89	1.72	2,000	945.00/M	MSP430F2111IPWR
	128	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18111-1-ND‡◆	2.63	2.03	1.84	250	375.00	MSP430F2111IRGET
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20753-1-ND‡§◆	2.80	2.16	1.96	2,000	1080.00/M	MSP430F2111TDGVR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20754-1-ND‡§◆	2.80	2.16	1.96	2,000	1080.00/M	MSP430F2111TDWR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20755-1-ND‡§◆	2.80	2.16	1.96	2,000	1080.00/M	MSP430F2111TPWR
	128	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20756-1-ND‡§◆	2.98	2.30	2.09	250	425.00	MSP430F2111TRGET
	256	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23359-1-ND‡◆	3.30	2.70	2.42	2,000	1463.00/M	MSP430F2112IPWR
	256	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23360-1-ND‡◆	3.30	2.70	2.42	3,000	1463.00/M	MSP430F2112IRHBR
	256	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23361-1-ND‡§◆	3.75	3.07	2.75	2,000	1663.00/M	MSP430F2112TPWR
	256	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23362-1-ND‡§◆	3.75	3.07	2.75	3,000	1662.50/M	MSP430F2112TRHBR
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-27484-5-ND◆ ***NEW!***	2.02	1.63	1.47	—	—	MSP430G2201IN14
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-27473-1-ND‡◆ ***NEW!***	1.77	1.40	1.26	2,000	652.00/M	MSP430G2201IPW14R
	128	10	1	Slope	—	DC-16MHz	1.8 ~ 3.6	16-QFN	296-27474-1-ND‡◆ ***NEW!***	1.88	1.49	1.34	3,000	694.00/M	MSP430G2201IRSA16R
	128	10	1	16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-DIP	296-25829-5-ND◆ ***NEW!***	2.02	1.63	1.47	—	—	MSP430G2211IN14
	128	10	1	16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-25830-5-ND◆ ***NEW!***	1.70	1.36	1.19	—	—	MSP430G2211IPW14
	128	10	1	16-Bit	—	DC-16MHz	1.8 ~ 3.6	16-QFN	296-25831-1-ND‡◆ ***NEW!***	1.93	1.49	1.35	3,000	743.00/M	MSP430G2211IRSA16R
	128	10	1	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-27485-5-ND◆ ***NEW!***	2.02	1.63	1.47	—	—	MSP430G2221IN14

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. Δ Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C ★ Operating Temperature: -55°C ~ 125°C *(Continued)*

Memory Size Flash (Program)	SRAM (Byte)	I/O	Timer (16-Bit)	ADC Ch/Res	UART/ SPI	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Texas Instruments Part No.
										1	25	100	Qty.	Pricing	
2K	128	10	1	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-27475-1-ND‡◆ ***NEW!***	1.84	1.46	1.31	2,000	679.00/M	MSP430G2221IPW14R
	128	10	1	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-27476-1-ND‡◆ ***NEW!***	1.93	1.49	1.35	3,000	743.00/M	MSP430G2221IRSA16R
	128	10	1	10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-25832-5-ND◆ ***NEW!***	2.17	1.75	1.58	—	—	MSP430G2231IN14
	128	10	1	10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-25833-5-ND◆ ***NEW!***	1.71	1.38	1.24	—	—	MSP430G2231IPW14
	128	10	1	10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-25834-1-ND‡◆ ***NEW!***	1.93	1.49	1.35	3,000	743.00/M	MSP430G2231IRSA16R
4K	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18112-ND◆	2.79	2.25	2.03	—	—	MSP430F2121IDGV
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-26197-5-ND◆ ***NEW!***	2.79	2.25	2.03	—	—	MSP430F2121IDW
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18113-1-ND‡◆	3.15	2.43	2.21	2,000	1215.00/M	MSP430F2121IDWR
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18114-1-ND‡◆	3.15	2.43	2.21	2,000	1215.00/M	MSP430F2121IPWR
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18115-1-ND‡◆	3.33	2.57	2.33	250	475.00	MSP430F2121IRGET
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20757-1-ND‡§◆	3.47	2.68	2.43	2,000	1336.50/M	MSP430F2121TDGVR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20758-1-ND‡§◆	3.47	2.68	2.43	2,000	1336.50/M	MSP430F2121TDWR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20759-1-ND‡§◆	3.47	2.68	2.43	2,000	1336.50/M	MSP430F2121TPWR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20760-1-ND‡§◆	3.33	2.57	2.33	250	475.00	MSP430F2121TRGET
	512	24	5	Slope	—	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-26200-5-ND◆ ***NEW!***	3.92	3.15	2.87	—	—	MSP430F2122IPW
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23363-1-ND‡◆	4.20	3.43	3.08	2,000	1862.00/M	MSP430F2122IPWR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23364-1-ND‡◆	4.20	3.43	3.08	3,000	1862.00/M	MSP430F2122IRHBR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23365-1-ND‡§◆	4.65	3.80	3.41	2,000	2061.50/M	MSP430F2122TPWR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23366-1-ND‡§◆	4.65	3.80	3.41	3,000	2061.50/M	MSP430F2122TRHBR
8K	256	16	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18116-ND◆	3.36	2.70	2.46	—	—	MSP430F2131IDGV
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18117-1-ND‡◆	3.60	2.94	2.64	2,000	1596.00/M	MSP430F2131IDWR
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18118-1-ND‡◆	3.60	2.94	2.64	2,000	1596.00/M	MSP430F2131IPWR
	256	16	5	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18119-1-ND‡◆	3.75	3.07	2.75	250	578.13	MSP430F2131IRGET
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20761-1-ND‡§◆	4.05	3.31	2.97	2,000	1795.50/M	MSP430F2131TDGVR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20762-1-ND‡§◆	4.05	3.31	2.97	2,000	1796.00/M	MSP430F2131TDWR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20763-1-ND‡§◆	4.05	3.31	2.97	2,000	1795.50/M	MSP430F2131TPWR
	256	16	5	Slope	—	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20764-1-ND‡§◆	4.20	3.43	3.08	250	647.50	MSP430F2131TRGET
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23367-1-ND‡◆	4.50	3.68	3.30	2,000	1995.00/M	MSP430F2132IPWR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23368-1-ND‡◆	4.50	3.68	3.30	3,000	1995.00/M	MSP430F2132IRHBR
	512	24	5	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	32-QFN	296-25176-1-ND‡◆ ***NEW!***	4.65	3.80	3.41	250	716.88	MSP430F2132IRHBT
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-26202-5-ND◆ ***NEW!***	4.62	3.72	3.39	—	—	MSP430F2132TPW
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	28-TSSOP	296-23369-1-ND‡§◆	4.95	4.05	3.63	2,000	2194.50/M	MSP430F2132TPWR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-23370-1-ND‡§◆	4.95	4.05	3.63	3,000	2195.00/M	MSP430F2132TRHBR
	512	24	5	8-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	32-QFN	296-26203-1-ND‡◆ ***NEW!***	5.10	4.17	3.74	250	786.25	MSP430F2132TRHBT
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21444-1-ND‡◆	4.95	4.05	3.63	2,000	2195.00/M	MSP430F2232IDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21445-1-ND‡◆	5.10	4.17	3.74	250	786.25	MSP430F2232IRHAT
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21446-1-ND‡◆	5.55	4.54	4.07	2,000	2460.50/M	MSP430F2234IDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21447-1-ND‡◆	5.70	4.66	4.18	250	878.75	MSP430F2234IRHAT
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21448-1-ND‡§◆	6.15	5.03	4.51	2,000	2726.50/M	MSP430F2234TDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21449-1-ND‡§◆	6.30	5.15	4.62	250	971.25	MSP430F2234TRHAT
	1024	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21746-1-ND‡◆	5.40	4.41	3.96	250	832.50	MSP430F2330IRHAT
	1024	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21747-1-ND‡§◆	6.00	4.90	4.40	250	925.00	MSP430F2330TRHAT
	1024	48	6	8-Ch., 12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23029-1-ND‡§◆	7.20	5.88	5.28	1,000	3360.00	MSP430F233TPMR
	1024	48	6	8-Ch., 12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-22991-1-ND‡§◆	7.20	5.88	5.28	2,500	3192.00/M	MSP430F233TRGCR
16K	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21450-1-ND‡◆	5.85	4.78	4.29	2,000	2594.00/M	MSP430F2252IDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21451-1-ND‡◆	6.00	4.90	4.40	250	925.00	MSP430F2252IRHAT
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-26207-5-ND◆ ***NEW!***	6.02	4.84	4.41	—	—	MSP430F2254IDA
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21452-1-ND‡◆	6.45	5.27	4.73	2,000	2859.50/M	MSP430F2254IDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21453-1-ND‡◆	6.60	5.39	4.84	250	1017.50	MSP430F2254IRHAT
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21454-1-ND‡§◆	7.20	5.88	5.28	2,000	3192.00/M	MSP430F2254TDAR
	512	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21455-1-ND‡§◆	7.35	6.01	5.39	250	1133.25	MSP430F2254TRHAT
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21748-1-ND‡◆	6.15	5.03	4.51	250	948.13	MSP430F2350IRHAT
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21749-1-ND‡§◆	6.75	5.52	4.95	250	1040.63	MSP430F2350TRHAT
	2048	48	6	8-Ch., 12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22879-1-ND‡§◆	6.89	5.72	5.20	1,000	3510.00	MSP430F235TPMR
	2048	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-22928-1-ND‡§◆ ***NEW!***	6.89	5.72	5.20	2,500	3380.00/M	MSP430F235TRGCR
32K	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21456-1-ND‡◆	6.60	5.39	4.84	2,000	2926.00/M	MSP430F2272IDAR
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21441-1-ND‡◆	6.75	5.52	4.95	250	1040.75	MSP430F2272IRHAT
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21439-1-ND‡◆	7.35	6.01	5.39	2,000	3259.00/M	MSP430F2274IDAR
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21459-1-ND‡◆	6.63	5.50	5.00	250	1062.50	MSP430F2274IRHAT
	1K	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-25813-1-ND‡◆ ***NEW!***	15.53	13.17	12.15	250	2615.75	MSP430F2274MDATEP
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-23723-1-ND‡★◆	15.53	13.17	12.15	250	2615.75	MSP430F2274MRHATEP
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21460-1-ND‡§◆	7.16	5.94	5.40	2,000	3510.00/M	MSP430F2274TDAR
	1024	32	6	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-VQFN	296-21440-1-ND‡§◆	7.29	6.05	5.50	250	1168.75	MSP430F2274TRHAT
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-24340-1-ND‡◆	6.45	5.27	4.73	2,500	2860.00/M	MSP430F2370IRHAR
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21750-1-ND‡◆	6.60	5.39	4.84	250	1017.50	MSP430F2370IRHAT
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	49-DSBGA	296-24336-1-ND‡◆	6.45	5.27	4.73	3,000	2859.50/M	MSP430F2370IYFFR
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	49-DSBGA	296-24337-1-ND‡◆	6.60	5.39	4.84	250	1017.50	MSP430F2370IYFFT
	2048	32	6	Slope	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21751-1-ND‡§◆	7.35	6.01	5.39	250	1133.25	MSP430F2370TRHAT
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-23081-1-ND‡§◆	9.01	7.48	6.80	2,500	4420.00/M	MSP430F247TRGCR
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-23080-1-ND‡§◆	8.35	6.93	6.30	2,500	4095.00/M	MSP430F2471TRGCR
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-QFN	296-26220-1-ND‡◆ ***NEW!***	9.14	7.59	6.90	250	1466.25	MSP430F247TRGCT
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-26218-ND◆ ***NEW!***	7.88	6.46	5.83	—	—	MSP430F2471TPM
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23072-1-ND‡§◆	8.35	6.93	6.30	1,000	4252.50	MSP430F2471TPMR
48K	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22893-1-ND‡§◆	10.60	8.80	8.00	1,000	5400.00	MSP430F248TPMR
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-22894-1-ND‡§◆	10.60	8.80	8.00	2,500	5200.00/M	MSP430F248TRGCR
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23082-1-ND‡§◆	9.28	7.70	7.00	1,000	4725.00	MSP430F2481TPMR
	4096	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-23083-1-ND‡§◆	9.28	7.70	7.00	2,500	4550.00/M	MSP430F2481TRGCR
56K	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22929-1-ND‡§◆	12.19	10.12	9.20	1,000	6210.00	MSP430F2410TPMR
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-22930-1-ND‡§◆	12.19	10.12	9.20	2,500	5980.00/M	MSP430F2410TRGCR
60K	2048	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23918-ND★◆	20.90	17.58	16.15	—	—	MSP430F249MPMEP
	2048	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23084-1-ND‡§◆	11.53	9.57	8.70	1,000	5873.00	MSP430F249TPMR
	2048	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-23085-1-ND‡§◆	11.53	9.57	8.70	2,500	5655.00/M	MSP430F249TRGCR
	2048	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-24713-1-ND‡§◆ ***NEW!***	10.07	8.36	7.60	1,000	5130.00	MSP430F2491TPMR
	2048	48	10	Slope	4	DC-16MHz	1.8 ~ 3.6	64-VQFN	296-22931-1-ND‡§◆	10.07	8.36	7.60	2,500	4940.00/M	MSP430F2491TRGCR
92K	4096	48	2	12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-25295-ND§◆ ***NEW!***	11.75	9.64	8.70	—	—	MSP430F2416TPM
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22685-1-ND‡§◆	12.46	10.34	9.40	1,000	6345.00	MSP430F2416TPMR
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22693-1-ND‡§◆	13.46	11.41	10.53	1,000	7781.00	MSP430F2616TPMR

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. Δ Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C ★ Operating Temperature: -55°C ~ 125°C *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Memory Size Flash (Program)	SRAM (Byte)	I/O	Timer (16-Bit)	ADC Ch/Res	UART/ SPI	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Texas Instruments Part No.
										1	25	100	Qty.	Pricing	
92K	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22686-1-ND‡§◆	12.46	10.34	9.40	1,000	6345.00	MSP430F2416TPNR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22694-1-ND‡§◆	13.46	11.41	10.53	1,000	7780.50	MSP430F2616TPNR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24710-1-ND‡§◆ ***NEW!***	12.72	10.56	9.60	2,500	6240.00/M	MSP430F2416TZQWR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24714-1-ND‡§◆ ***NEW!***	13.69	11.61	10.71	2,500	7586.26/M	MSP430F2616TZQWR
	8192	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22687-1-ND‡§◆	12.72	10.56	9.60	1,000	6480.00	MSP430F2417TPMR
	8192	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22695-1-ND‡§◆	13.92	11.80	10.89	1,000	8047.00	MSP430F2617TPMR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22688-1-ND‡§◆	12.72	10.56	9.60	1,000	6480.00	MSP430F2417TPNR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24711-1-ND‡§◆ ***NEW!***	12.99	10.78	9.80	2,500	6370.00/M	MSP430F2417TZQWR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22696-1-ND‡§◆	13.92	11.80	10.89	1,000	8046.50	MSP430F2617TPNR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24715-1-ND‡§◆ ***NEW!***	14.15	12.00	11.07	2,500	7841.26/M	MSP430F2617TZQWR
116K	8192	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22689-1-ND‡§◆	11.50	9.75	9.00	1,000	6650.00	MSP430F2418TPMR
	8192	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22697-1-ND‡§◆	14.61	12.39	11.43	1,000	8446.00	MSP430F2618TPMR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22690-1-ND‡§◆	11.50	9.75	9.00	1,000	6650.00	MSP430F2418TPNR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-23488-1-ND‡§◆	11.73	9.95	9.18	2,500	6502.50/M	MSP430F2418TZQWR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22698-1-ND‡§◆	14.61	12.39	11.43	1,000	8446.00	MSP430F2618TPNR
	8192	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-23487-1-ND‡§◆	14.84	12.58	11.61	2,500	8223.76/M	MSP430F2618TZQWR
	8192	64	3	3-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24136-1-ND‡§	39.52	34.53	32.24	250	7280.00	MSP430F2618TGQWTEP
120K	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-26217-ND◆ ***NEW!***	11.66	9.81	9.01	—	—	MSP430F2419TPM
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22691-1-ND‡§◆	12.19	10.34	9.54	1,000	7049.00	MSP430F2419TPMR
	4096	48	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22699-1-ND‡§◆	15.30	12.97	11.97	1,000	8845.00	MSP430F2619TPMR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22692-1-ND‡§◆	12.19	10.34	9.54	1,000	7049.00	MSP430F2419TPNR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24712-1-ND‡§◆ ***NEW!***	12.42	10.53	9.72	2,500	6885.00/M	MSP430F2419TZQWR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22700-1-ND‡§◆	15.30	12.97	11.97	1,000	8844.50	MSP430F2619TPNR
	4096	64	10	8-Ch., 12-Bit	4	DC-16MHz	1.8 ~ 3.6	113-BGA	296-24716-1-ND‡§◆ ***NEW!***	15.53	13.17	12.15	2,500	8606.26/M	MSP430F2619TZQWR
16K	512	14	—	Slope	—	DC-3.3MHz	2.5 ~ 5.5	56-SSOP	296-2382-5-ND	11.55	9.72	8.93	—	—	MSP430P315IDL
	512	14	—	Slope	—	DC-3.3MHz	2.5 ~ 5.5	48-SSOP	296-6512-5-ND	11.55	9.72	8.93	—	—	MSP430P315SIDL
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	68-PLCC	296-6513-5-ND	15.29	12.86	11.82	—	—	MSP430P325AIFN
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	64-QFP	296-6514-ND	15.07	12.68	11.65	—	—	MSP430P325AIPG
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	64-LQFP	296-6515-ND	15.07	12.68	11.65	—	—	MSP430P325AIPM
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	68-PLCC	296-1409-5-ND	15.29	12.86	11.82	—	—	MSP430P325IFN
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	64-QFP	296-2383-ND	15.07	12.68	11.65	—	—	MSP430P325IPG
	512	14	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	64-LQFP	296-6516-ND	15.07	12.68	11.65	—	—	MSP430P325IPM
32K	1024	40	1	Slope	1	DC-3.8MHz	2.7 ~ 5.5	100-QFP	296-2384-ND	16.83	14.16	13.01	—	—	MSP430P337AIPJM
	1024	40	1	Slope	1	DC-3.8MHz	2.7 ~ 5.5	100-QFP	296-6517-ND	16.83	14.16	13.01	—	—	MSP430P337IPJM
Flash Based F4xx Family with LCD Driver															
4K	256	48	3	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-12084-ND◆	4.34	3.49	3.18	—	—	MSP430F412IPM
	256	48	3	Slope	—	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17323-1-ND‡	4.80	3.92	3.52	250	740.00	MSP430F412IRTDT
8K	256	14	3	3-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24717-1-ND‡◆ ***NEW!***	7.20	5.88	5.28	1,000	3360.00	MSP430F423AIPMR
	256	14	3	3X 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17108-ND◆	6.72	5.40	4.92	—	—	MSP430F423IPM
	256	14	3	2X 16-BitΔ	1	DC-8MHz	2.7 ~ 3.6	64-LQFP	296-23730-1-ND‡◆	7.05	5.76	5.17	1,000	3290.00	MSP430FE4232IPMR
	256	14	3	16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-24723-1-ND‡◆ ***NEW!***	7.42	6.16	5.60	1,000	3780.00	MSP430FE423AIPMR
	256	14	3	3X 16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16991-ND◆	7.00	5.74	5.18	—	—	MSP430FE423IPM
	256	48	3	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-12085-ND◆	4.48	3.60	3.28	—	—	MSP430F413IPM
	256	48	3	Slope	—	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17324-1-ND‡◆	4.95	4.05	3.63	250	763.13	MSP430F413IRTDT
	256	48	3	Slope	—	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-17412-1-ND‡	4.80	3.92	3.52	2,500	2128.00/M	MSP430F413IRTDR
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24860-1-ND‡◆ ***NEW!***	4.95	4.05	3.63	1,000	2310.00	MSP430F4132IPMR
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	48-QFN	296-24646-1-ND‡◆ ***NEW!***	4.95	4.05	3.63	2,500	2194.50/M	MSP430F4132IRGZR
12K	512	14	1	16-BitΔ	1	DC-8MHz	2.7 ~ 3.6	64-LQFP	296-23731-1-ND‡◆	7.35	6.01	5.39	1,000	3430.00	MSP430FE4242IPMR
16K	256	32	3	5-Ch., 16-BitΔ	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18068-1-ND‡◆	8.08	6.71	6.10	1,000	4118.00	MSP430F4250IDLR
	256	32	3	5-Ch., 16-BitΔ	—	DC-4.15MHz	1.8 ~ 3.6	48-VQFN	296-19264-1-ND‡◆	8.22	6.82	6.20	250	1317.50	MSP430F4250IRGZT
	256	32	3	5-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22056-5-ND◆	8.25	6.77	6.11	—	—	MSP430FG4250IDL
	256	32	3	5-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	48-VQFN	296-22057-1-ND‡◆	8.75	7.26	6.60	2,500	4290.00/M	MSP430FG4250IRGZR
	512	14	3	3-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24718-1-ND‡◆ ***NEW!***	7.16	5.94	5.40	1,000	3645.00	MSP430F425AIPMR
	512	14	3	3X 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17109-ND◆	6.75	5.54	5.00	—	—	MSP430F425IPM
	512	14	3	16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-24724-1-ND‡◆ ***NEW!***	8.22	6.82	6.20	1,000	4185.00	MSP430FE425AIPMR
	512	14	3	3X 16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16992-ND◆	7.75	6.36	5.74	—	—	MSP430FE425IPM
	512	14	3	3X 16-Bit	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-26235-1-ND‡◆ ***NEW!***	8.22	6.82	6.20	1,000	4185.00	MSP430FE425IPMR
	512	14	1	16-BitΔ	1	DC-8MHz	2.7 ~ 3.6	64-LQFP	296-23732-1-ND‡◆	6.89	5.72	5.20	1,000	3510.00	MSP430FE4252IPMR
	512	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16766-ND◆	5.04	4.05	3.69	—	—	MSP430F415IPM
	512	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-26226-1-ND‡◆ ***NEW!***	5.40	4.41	3.96	1,000	2520.00	MSP430F415IPMR
	512	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-22753-1-ND‡◆	5.55	4.54	4.07	250	855.63	MSP430F415IRTDT
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24591-ND◆ ***NEW!***	5.18	4.17	3.80	—	—	MSP430F4152IPM
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24861-1-ND‡◆ ***NEW!***	5.55	4.54	4.07	1,000	2590.00	MSP430F4152IPMR
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	48-QFN	296-24592-5-ND◆ ***NEW!***	5.32	4.28	3.90	—	—	MSP430F4152IRGZ
	512	48	8	8-Ch., 10-Bit	2	DC-8MHz	1.8 ~ 3.6	48-QFN	296-24647-1-ND‡◆ ***NEW!***	5.55	4.54	4.07	2,500	2460.50/M	MSP430F4152IRGZR
	512	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13721-ND◆	9.38	7.69	6.94	—	—	MSP430F435IPN
	512	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12635-ND◆	9.63	7.90	7.13	—	—	MSP430F435IPZ
	512	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22757-1-ND‡◆	7.95	6.60	6.00	1,000	4050.00	MSP430F4351IPNR
	512	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22758-1-ND‡◆	7.95	6.60	6.00	1,000	4050.00	MSP430F4351IPZR
24K	256	32	3	5-Ch., 16-BitΔ	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18069-1-ND‡◆	9.01	7.48	6.80	1,000	4590.00	MSP430F4260IDLR
	256	32	3	5-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	48-VQFN	296-20939-1-ND‡◆	9.14	7.59	6.90	250	1466.25	MSP430F4260IRGZT
	256	32	3	5-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22058-1-ND‡◆	9.54	7.92	7.20	1,000	4860.00	MSP430FG4260IDLR
	256	32	3	5-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	48-VQFN	296-22059-1-ND‡◆	9.54	7.92	7.20	2,500	4680.00/M	MSP430FG4260IRGZR
	1024	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13722-ND◆	10.25	8.41	7.59	—	—	MSP430F436IPN
	1024	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-26231-1-ND‡◆ ***NEW!***	11.13	9.24	8.40	1,000	5670.00	MSP430F436IPNR
	1024	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12636-ND◆	10.50	8.61	7.77	—	—	MSP430F436IPZ
	1024	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22759-1-ND‡◆	10.47	8.69	7.90	1,000	5332.50	MSP430F4361IPNR
	1024	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22760-1-ND‡◆	10.47	8.69	7.90	1,000	5332.50	MSP430F4361IPZR
32K	256	32	3	5-Ch., 16-BitΔ	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18070-1-ND‡◆	9.67	8.03	7.30	1,000	4928.00	MSP430F4270IDLR
	256	32	3	5-Ch., 16-BitΔ	—	DC-8MHz	1.8 ~ 3.6	48-VQFN	296-19679-1-ND‡◆	9.81	8.14	7.40	250	1572.50	MSP430F4270IRGZT
	256	32	3	5-Ch., 16-BitΔ	—	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22060-1-ND‡◆	10.60	8.80	8.00	1,000	5400.00	MSP430FG4270IDLR
	256	32	3	5-Ch., 16-BitΔ	—	DC-8MHz	1.8 ~ 3.6	48-VQFN	296-22061-1-ND‡◆	10.73	8.91	8.10	250	1721.25	MSP430FG4270IRGZT
	1024	14	3	3-Ch., 16-BitΔ	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-24719-1-ND‡◆ ***NEW!***	7.69	6.38	5.80	1,000	3915.00	MSP430F427AIPMR
	1024	14	3	3X 16-BitΔ	1	DC-8.4MHz	1.8 ~ 3.6	64-LQFP	296-17110-ND◆	7.25	5.95	5.37	—	—	MSP430F427IPM
	1024	14	3	16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-24725-1-ND‡◆ ***NEW!***	8.75	7.26	6.60	1,000	4455.00	MSP430FE427AIPMR
	1024	14	3	3X 16-BitΔ	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16993-ND◆	8.25	6.77	6.11	—	—	MSP430FE427IPM
	1024	14	1	16-BitΔ	1	DC-8MHz	2.7 ~ 3.6	64-LQFP	296-23733-1-ND‡◆	7.29	6.05	5.50	1,000	3713.00	MSP430FE4272IPMR

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. Δ Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C ★ Operating Temperature: -55°C ~ 125°C *(Continued)*

MSP430™ Ultra-Low Power Microcontrollers *(Cont.)*

Memory Size Flash (Program)	SRAM (Byte)	I/O	Timer (16-Bit)	ADC Ch/Res	UART/ SPI	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Texas Instruments Part No.
										1	25	100	Qty.	Pricing	
32K	1024	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16767-ND◆	5.88	4.73	4.31	—	—	MSP430F417IPM
	1024	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-26227-1-ND‡◆ ***NEW!***	6.30	5.15	4.62	1,000	2940.00	MSP430F417IPMR
	1024	48	8	Slope	—	DC-8MHz	1.8 ~ 3.6	64-VQFN	296-22755-1-ND‡◆	6.45	5.27	4.73	250	994.38	MSP430F417IRTDT
	1024	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13723-ND◆	10.75	8.82	7.96	—	—	MSP430F437IPN
	1024	48	6	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12637-ND◆	11.00	9.02	8.14	—	—	MSP430F437IPZ
	1024	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22761-1-ND‡◆	10.73	8.91	8.10	1,000	5467.50	MSP430F4371IPNR
	1024	48	6	Slope	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22762-1-ND‡◆	10.73	8.91	8.10	1,000	5467.50	MSP430F4371IPZR
	1024	48	6	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17011-ND◆	11.33	9.53	8.76	—	—	MSP430FG437IPN
	1024	48	6	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-18611-1-ND‡◆	11.85	10.05	9.27	1,000	6850.00	MSP430FG437IPNR
	1024	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12638-ND◆	11.25	9.23	8.33	—	—	MSP430F447IPZ
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-25380-1-ND‡◆ ***NEW!***	12.19	10.12	9.20	1,000	6210.00	MSP430F477IPNR
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-25381-1-ND‡◆ ***NEW!***	12.46	10.34	9.40	2,500	6110.00/M	MSP430F477IZQWR
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-25384-1-ND‡◆ ***NEW!***	12.31	10.44	9.63	1,000	7115.50	MSP430F479IPNR
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-25385-1-ND‡◆ ***NEW!***	12.54	10.63	9.81	2,500	6948.76/M	MSP430F479IZQWR
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-25386-1-ND‡◆ ***NEW!***	12.59	10.45	9.50	1,000	6412.50	MSP430FG477IPNR
	2048	48	2	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-25387-1-ND‡◆ ***NEW!***	12.85	10.67	9.70	2,500	6305.00/M	MSP430FG477IZQWR
48K	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12639-ND◆	12.00	9.84	8.88	—	—	MSP430F448IPZ
	2048	48	2	12-Bit SAR	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25607-1-ND‡◆ ***NEW!***	11.93	9.90	9.00	1,000	6075.00	MSP430F4481IPZR
	2048	48	6	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17012-ND◆	13.20	11.10	10.20	—	—	MSP430FG438IPN
	2048	72	6	3X 16-BitΔ	—	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-22914-1-ND‡◆	11.50	9.75	9.00	1,000	6650.00	MSP430F4783IPZR
	2048	72	6	4-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24720-1-ND‡◆ ***NEW!***	11.50	9.75	9.00	1,000	6650.00	MSP430F4784IPZR
	2048	48	1	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-25382-1-ND‡◆ ***NEW!***	11.50	9.75	9.00	1,000	6650.00	MSP430F478IPNR
	2048	48	1	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-25383-1-ND‡◆ ***NEW!***	11.73	9.95	9.18	2,500	6502.50/M	MSP430F478IZQWR
	2048	48	1	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-25388-1-ND‡◆ ***NEW!***	12.77	10.83	9.99	1,000	7381.50	MSP430FG478IPNR
	2048	48	1	16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-25389-1-ND‡◆ ***NEW!***	13.00	11.02	10.17	2,500	7203.76/M	MSP430FG478IZQWR
56K	4K	72	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25772-1-ND‡◆ ***NEW!***	11.73	9.95	9.18	1,000	6783.00	MSP430F47126IPZR
	4K	72	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25773-1-ND‡◆ ***NEW!***	11.96	10.14	9.36	1,000	6916.00	MSP430F47127IPZR
60K	2048	48	10	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12640-ND◆	11.33	9.53	8.76	—	—	MSP430F449IPZ
	2048	48	6	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17013-ND◆	14.52	12.21	11.22	—	—	MSP430FG439IPN
	2048	48	5	3X 16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-24305-1-ND‡◆	14.26	12.09	11.16	1,000	8246.00	MSP430FG479IPNR
	2048	48	5	3X 16-BitΔ	2	DC-8MHz	1.8 ~ 3.6	113-BGA	296-24306-1-ND‡◆	14.49	12.29	11.34	2,500	8033.00/M	MSP430FG479IZQWR
	2048	48	2	12-Bit SAR	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25608-1-ND‡◆ ***NEW!***	12.85	10.67	9.70	1,000	6548.00	MSP430F4491IPZR
	2560	72	6	3-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24721-1-ND‡◆ ***NEW!***	12.31	10.44	9.63	1,000	7115.50	MSP430F4793IPZR
	2560	72	6	4-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24722-1-ND‡◆ ***NEW!***	12.31	10.44	9.63	1,000	7115.50	MSP430F4794IPZR
92K	4K	72	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25774-1-ND‡◆ ***NEW!***	11.50	9.75	9.00	1,000	6650.00	MSP430F47163IPZR
	8K	72	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25775-1-ND‡◆ ***NEW!***	11.73	9.95	9.18	1,000	6783.00	MSP430F47173IPZR
	4K	80	5	12-Bit SAR	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25766-1-ND‡◆ ***NEW!***	14.49	12.29	11.34	1,000	8379.00	MSP430F4616IPZR
	4K	80	5	16-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25765-1-ND‡◆ ***NEW!***	12.42	10.53	9.72	1,000	7182.00	MSP430F46161IPZR
	4096	68	6	6-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24638-1-ND‡◆ ***NEW!***	13.11	11.12	10.26	1,000	7581.00	MSP430F47166IPZR
	4096	68	6	7-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24639-1-ND‡◆ ***NEW!***	13.46	11.41	10.53	1,000	7780.50	MSP430F47167IPZR
	4096	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21307-ND◆	16.39	13.79	12.67	—	—	MSP430FG4616IPZ
	4096	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	113-BGA	296-24726-1-ND‡◆ ***NEW!***	17.37	14.73	13.59	2,500	9626.26/M	MSP430FG4616IZQWR
	8K	80	5	16-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25768-1-ND‡◆ ***NEW!***	15.41	13.07	12.06	1,000	8911.00	MSP430F4617IPZR
	8K	80	5	16-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25767-1-ND‡◆ ***NEW!***	13.34	11.31	10.44	1,000	7714.00	MSP430F46171IPZR
	4K	68	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-27442-ND◆ ***NEW!***	12.87	10.83	9.95	—	—	MSP430F47167IPZ
	8192	68	6	6-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24640-1-ND‡◆ ***NEW!***	13.57	11.51	10.62	1,000	7847.00	MSP430F47176IPZR
	8192	68	6	7-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24641-1-ND‡◆ ***NEW!***	13.92	11.80	10.89	1,000	8046.50	MSP430F47177IPZR
	8192	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21308-ND◆	17.49	14.71	13.52	—	—	MSP430FG4617IPZ
	8192	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	113-BGA	296-24727-1-ND‡◆ ***NEW!***	18.52	15.70	14.49	2,500	10263.76/M	MSP430FG4617IZQWR
116K	8K	72	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25776-1-ND‡◆ ***NEW!***	12.19	10.34	9.54	1,000	7049.00	MSP430F47183IPZR
	8K	80	5	16-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25769-1-ND‡◆ ***NEW!***	14.26	12.09	11.16	1,000	8246.00	MSP430F46181IPZR
	8192	68	6	6-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24642-1-ND‡◆ ***NEW!***	17.02	14.43	13.32	1,000	9842.00	MSP430F47186IPZR
	8192	68	6	7-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24643-1-ND‡◆ ***NEW!***	17.37	14.73	13.59	1,000	10041.50	MSP430F47187IPZR
	8192	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21309-ND◆	18.37	15.45	14.20	—	—	MSP430FG4618IPZ
	8192	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	113-BGA	296-24728-1-ND‡ ***NEW!***	19.44	16.48	15.21	2,500	10773.76/M	MSP430FG4618IZQWR
	8192	80	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25481-ND◆ ***NEW!***	15.62	13.14	12.07	—	—	MSP430F4618IPZ
120K	4K	68	2	16-BitΔ	2	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-25777-1-ND‡◆ ***NEW!***	12.65	10.73	9.90	1,000	7315.00	MSP430F47193IPZR
	4K	80	5	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25771-1-ND‡◆ ***NEW!***	15.41	13.07	12.06	1,000	8911.00	MSP430F4619IPZR
	4K	80	5	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-25770-1-ND‡◆ ***NEW!***	13.34	11.31	10.44	1,000	7714.00	MSP430F46191IPZR
	4096	68	6	6-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24644-1-ND‡◆ ***NEW!***	17.71	15.02	13.86	1,000	10241.00	MSP430F47196IPZR
	4096	68	6	7-Ch., 16-BitΔ	4	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-24645-1-ND‡◆ ***NEW!***	18.17	15.41	14.22	1,000	10507.00	MSP430F47197IPZR
	4096	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21294-ND◆	17.49	14.71	13.52	—	—	MSP430FG4619IPZ
	4096	80	10	12-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	113-BGA	296-23094-1-ND‡◆	18.52	15.70	14.49	2,500	10263.76/M	MSP430FG4619IZQWR
Flash Based F5xx Family — RoHS Compliant															
24K	6K	31	5	10-Bit SAR	2	DC-25MHz	1.8 ~ 3.6	48-VQFN	296-27559-1-ND‡ ***NEW!***	5.40	4.41	3.96	2,500	2394.00/M	MSP430F5506IRGZR
32K	6K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	64-VQFN	296-27650-1-ND‡ ***NEW!***	5.70	4.66	5.70	2,000	2527.00/M	MSP430F5510IRGCR
	6K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	64-VQFN	296-27374-1-ND‡ ***NEW!***	8.61	7.15	8.61	2,000	4225.00/M	MSP430F5513IRGCR
	6K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	80-BGA	296-27375-1-ND‡ ***NEW!***	8.88	7.37	8.88	2,500	4355.00/M	MSP430F5513IZQER
	6K	63	5	16-Bit	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27303-1-ND‡ ***NEW!***	8.88	7.37	8.88	1,000	4523.00	MSP430F5521IPNR
	10K	47	5	12-Bit SAR	4	DC-25MHz	1.8 ~ 3.6	64-VQFN	296-27529-1-ND‡ ***NEW!***	9.01	7.48	6.80	2,000	4420.00/M	MSP430F5522IRGCR
64K	6K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	80-BGA	296-27376-1-ND‡ ***NEW!***	9.67	8.03	9.67	2,500	4745.00/M	MSP430F5514IZQER
	6K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	80-BGA	296-27377-1-ND‡ ***NEW!***	9.67	8.03	9.67	2,500	4745.00/M	MSP430F5524IZQER
	8K	63	5	—	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27300-1-ND‡ ***NEW!***	8.88	7.37	8.88	1,000	4523.00	MSP430F5515IPNR
	4K	63	5	12-Bit SAR	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27304-1-ND‡ ***NEW!***	9.81	8.14	9.81	1,000	4995.00	MSP430F5525IPNR
96K	6K	63	5	—	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27301-1-ND‡ ***NEW!***	9.94	8.25	9.94	1,000	5063.00	MSP430F5517IPNR
	6K	63	5	12-Bit SAR	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27305-1-ND‡ ***NEW!***	10.34	8.58	7.80	1,000	5265.00	MSP430F5527IPNR
	8K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	80-BGA	296-27378-1-ND‡ ***NEW!***	10.07	8.36	10.07	2,500	4940.00/M	MSP430F5526IZQER
128K	16K	67	15	16-Ch., 12-Bit	2	DC-18MHz	2.2 ~ 3.6	80-LQFP	296-23762-1-ND‡	8.75	7.26	6.60	1,000	4455.00	MSP430F5418IPNR
	16K	87	15	16-Ch., 12-Bit	4	DC-18MHz	2.2 ~ 3.6	100-LQFP	296-23763-1-ND‡	9.67	8.03	7.30	1,000	4928.00	MSP430F5419IPZR
	8K	63	5	—	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27302-1-ND‡ ***NEW!***	10.34	8.58	7.80	1,000	5265.00	MSP430F5519IPNR
	8K	47	5	12-Bit SAR	2	DC-25MHz	1.8 ~ 3.6	64-VQFN	296-27400-1-ND‡ ***NEW!***	10.47	8.69	7.90	250	1678.75	MSP430F5528IRGCT
	10K	47	5	12-Bit	2	DC-25MHz	1.8 ~ 3.6	80-BGA	296-27379-1-ND‡ ***NEW!***	10.73	8.91	8.10	2,500	5265.00/M	MSP430F5528IZQER
	8K	63	4	12-Bit SAR	4	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-25427-ND ***NEW!***	10.00	8.20	7.40	—	—	MSP430F5529IPN
	8K	63	5	12-Bit SAR	2	DC-25MHz	1.8 ~ 3.6	80-LQFP	296-27306-1-ND‡ ***NEW!***	10.60	8.80	8.00	1,000	5400.00	MSP430F5529IPNR
192K	16K	67	15	16-Ch., 12-Bit	2	DC-18MHz	2.2 ~ 3.6	80-LQFP	296-23764-1-ND‡	10.34	8.58	7.80	1,000	5805.00	MSP430F5435IPNR
	16K	87	15	16-Ch., 12-Bit	4	DC-18MHz	2.2 ~ 3.6	100-LQFP	296-23765-1-ND‡	11.40	9.46	8.60	1,000	5805.00	MSP430F5436IPZR
256K	16K	67	15	16-Ch., 12-Bit	2	DC-18MHz	2.2 ~ 3.6	80-LQFP	296-23766-1-ND‡	11.66	9.68	8.80	1,000	5940.00	MSP430F5437IPNR
	16K	87	15	16-Ch., 12-Bit	4	DC-18MHz	2.2 ~ 3.6	100-LQFP	296-23450-ND	12.13	9.95	8.98	—	—	MSP430F5438IPZ
	16K	87	15	16-Ch., 12-Bit	4	DC-18MHz	2.2 ~ 3.6	100-LQFP	296-23859-1-ND‡	12.85	10.67	9.70	1,000	6548.00	MSP430F5438IPZR

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. Δ Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C ★ Operating Temperature: -55°C ~ 125°C

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Digital Signal Processors

TMS320C6000™ Family

TMS320C6000™ DSP Platform — Combining high-performance hardware with considerable development resources, TI's C6000™ DSP platform provides cost efficiency and low power dissipation. Raising the bar in performance, the C6000 DSP platform offers the industry's fastest DSPs running at clock speeds up to 720 MHz and scalable to 1 GHz. The platform, which features a wide range of fully code-compatible devices, consists of the TMS320C64x™, TMS320DM64x™ and TMS320C62x™ DSP fixed-point generations as well as the TMS320C67x™ DSP floating-point generation. Optimal for designers working on targeted broadband infrastructure, performance audio and imaging applications.

RAM (Bytes)		McBSP††	DMA (Channels)	COM	Timers	Operating Voltage		MIPS	Frequency (MHz)	Total Internal Power(W) (Full Device Power)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
Program	Data					Core	I/O						1	25	100	
										TMS320C62x (Fixed Point)						
4K / 4K / 64K†		2	16◊	HPI / 16	2	1.8	3.3	1336	167	1.0	256-BGA	296-12560-ND◆	53.19	46.00	43.13	TMS320C6211BGFN167
		2	16◊	HPI / 16	2	1.8	3.3	1200	150	0.9	256-BGA	296-10747-ND◆	41.70	36.07	33.81	TMS320C6211GFN150
		2	16◊	HPI / 16	2	1.8	3.3	1200	150	0.9	256-BGA	296-12559-ND◆	42.55	36.80	34.50	TMS320C6211BGFN150
64K	64K	2	4	HPI / 16	2	1.8	3.3	1600	200	1.3	352-FC/CSP	296-10744-ND◆	134.73	121.49	117.51	TMS320C6201GJL200
		2	4	HPI / 16	2	1.8	3.3	1600	200	1.3	352-FC/CSP	296-10743-ND◆	134.73	121.49	117.51	TMS320C6201GJC200
		2	4	Exp. Bus / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-13381-5-ND◆	41.35	35.76	33.53	TMS320C6204GLW200
		2	4	Exp. Bus / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-12672-ND◆	21.78	18.32	16.83	TMS320C6204GHK200
		2	4	Exp. Bus / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-26838-ND◆ ***NEW!***	21.78	18.32	16.83	TMS320C6204ZHK200
		2	4	PCI / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-12673-ND	21.40	18.19	16.86	TMS320C6205GHK200
		2	4	PCI / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-19385-ND◆	21.40	18.19	16.86	TMS320C6205ZHK200
256K	128K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.0	384-FC/CSP	296-14380-ND◆	114.80	102.25	96.87	TMS320C6202BGNY300
		3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.0	352-FCBGA	296-14381-ND◆	114.80	102.25	96.87	TMS320C6202BGNZ300
		3	4	Exp. Bus / 32	2	1.5	3.3	2000	250	0.9	384-FC/CSP	296-15122-5-ND◆	95.68	85.22	80.73	TMS320C6202BGNY250
		3	4	Exp. Bus / 32	2	1.5	3.3	2000	250	0.9	352-BGA	296-15123-5-ND◆	95.68	85.22	80.73	TMS320C6202BGNZ250
		3	4	Exp. Bus / 32	2	1.8	3.3	2000	250	2.1	352-FC/CSP	296-10745-ND◆	170.38	156.28	152.75	TMS320C6202GJL250
		3	4	Exp. Bus / 32	2	1.8	3.3	2000	250	2.1	384-BGA	296-10746-ND◆	170.38	156.28	152.75	TMS320C6202GLS250
384K	512K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.3	384-BGA	296-13801-ND◆	116.21	104.78	101.35	TMS320C6203BGNY300
		3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.3	352-FCBGA	296-14756-5-ND◆	116.21	104.78	101.35	TMS320C6203BGNZ300
		3	4	Exp. Bus / 32	2	1.5	3.3	2000	250	1.1	384-BGA	296-13800-ND◆	103.36	92.06	87.21	TMS320C6203BGNY173
		3	4	Exp. Bus / 32	2	1.5	3.3	2000	250	1.1	352-BGA	296-15124-5-ND◆	103.36	92.06	87.21	TMS320C6203BGNZ173

RAM (Bytes) L1 Program Cache/ L1 Data Cache/ L2 Unified RAM/Cache	McBSP††	Enhanced DMA (Channels)	COM	Timers	Operating Voltage		MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O						1	25	100	
									TMS320C64x (Fixed Point)						
16K / 16K / 1M	3+UTOPIA	64	PCI / HPI 32/16	3	1.4	3.3	4800	600	1.06	532-BGA	296-14385-ND◆	150.87	138.39	135.27	TMS32C6415DGLZ6E3
	3	64	HPI 32/16	3	1.4	3.3	4800‡	600	1.06	532-BGA	296-14383-ND◆	150.73	135.91	131.46	TMS32C6414DGLZ6E3
	3	64	HPI 32/16	3	1.2	3.3	4000‡	500	0.64	532-BGA	296-14382-ND◆	125.61	113.26	109.56	TMS32C6414DGLZ5E0
	3	64	HPI 32/16	3	1.2	3.3	8000	1000	1.74	532-FCBGA	296-26839-ND◆ ***NEW!***	252.59	231.69	226.46	TMS320C6414TBZLZ1
	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.74	532-FCBGA	296-26840-ND◆ ***NEW!***	136.11	122.72	118.71	TMS320C6414TBZLZ7
	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17757-ND	147.85	133.31	128.95	TMS320C6414TGLZ7
16K / 16K / 256K	2	64	PCI / HPI 32/16	3	1.2	3.3	2400‡	300	0.64	532-FCBGA	296-15114-ND◆	67.59	59.64	56.66	TMS320C6411GLZ
	2	64	HPI 32/16	3	1.2	3.3	4000	500	1.00	288-FCBGA	296-17479-ND	43.85	37.92	35.55	TMS320C6413GTS500
	2	64	PCI / HPI / EMAC	3	1.4	3.3	4800	600	1.50	548-BGA	296-18663-ND◆	75.82	67.78	64.33	TMS320C6412ZDK600
	2	64	HPI 32/16	3	1.2	3.3	4000	500	1.00	288-FCBGA	296-18664-ND◆	43.85	37.92	35.55	TMS320C6413ZTS500
16K / 16K / 512K	2	64	HPI 32/16	3	1.4	3.3	4800	600	1.50	288-FCBGA	296-17480-ND	72.85	65.13	61.81	TMS320C6418GTS600
	2	64	HPI 32/16	3	1.4	3.3	4800	600	1.70	288-FCBGA	296-19388-ND◆	72.85	65.13	61.81	TMS320C6418ZTS600
16K / 16K / 1024K	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.36	532-BGA	296-19386-ND◆	147.85	133.31	128.95	TMS320C6414TZLZ7
	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17487-ND	190.02	174.30	170.37	TMS32C6414EGLZ7E3
	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17488-ND	200.03	183.48	179.34	TMS32C6415EGLZ7E3
	2	64	PCI/EMAC	3	1.2	3.3	5600	700	1.70	376-BGA	296-24623-ND◆ ***NEW!***	58.89	51.96	49.37	SM320C6424GDUQ6EP
	2	64	HPI 16	2	1.05	3.3	5600	600	1.70	361-BGA	296-26841-5-ND◆ ***NEW!***	50.88	44.00	41.25	TMS320C6424ZWT6
	3	64	PCI / HPI 32/16	3	1.2	3.3	4000	500	—	532-FCBGA	296-23817-ND◆	240.21	220.33	215.36	SM32C6415EGLZ50SEP
	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17489-ND	220.04	201.83	197.28	TMS32C6416EGLZ7E3
	2	64	PCI / HPI 32/16	3	1.2	3.3	5760	720	1.36	532-BGA	296-19387-ND◆	147.90	135.66	132.60	TMS320C6415TZLZ7
32K / 32K / 2096K	2	64	HPI 32/16	2	1.2	3.3	9600	1200	—	697-FCBGA	296-26842-5-ND ***NEW!***	312.84	286.95	280.48	TMS320C6455BZTZ2
32K / 32K / 3072K	2	64	EMAC	6	1.2	1.8	—	1000	—	561-FCBGA	296-23805-ND◆	326.03	299.06	292.31	TMX320C6474ZUN

RAM (Bytes) Program/Data	McBSP††	DMA (Channels)	COM	Timers	Operating Voltage		MFLOPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O						1	25	100	
									TMS320C67x (Floating Point)						
128K	2	4	HPI / 16	2	1.8	3.3	1000	167	0.9	352-BGA	296-10771-5-ND◆ ***NEW!***	198.80	182.35	178.23	TMSC6701GJC16719V
4K / 4K / 64K†	2	16◊	HPI / 16	2	1.4	3.3	1500	250	0.9	272-BGA	296-17464-ND	32.40	27.54	25.52	TMS320C6711DGDP250
4K / 4K / 64K	2	16◊	HPI / 16	2	1.2	3.3	1200	200	0.9	272-BGA	296-19389-ND◆	30.00	25.50	23.63	TMS320C6711DZDP200
4K / 4K / 64K†	2	16◊	HPI / 16	2	1.2	3.3	1500	250	0.9	272-BGA	296-26843-ND◆ ***NEW!***	32.40	27.54	25.52	TMS320C6711DZDP250
4K / 4K / 64K†	2	16◊	HPI / 16	2	1.2	3.3	1000	167	0.9	272-BGA	296-26869-ND◆ ***NEW!***	37.50	31.88	29.54	TMS32C6711DGDPA167
4K / 4K / 64K†	2	16◊	HPI / 16	2	1.2	3.3	100	167	0.9	272-BGA	296-26870-ND◆ ***NEW!***	37.50	31.88	29.54	TMS32C6711DZDPA167
4K / 4K / 64K	2	16◊	—	2	1.2	3.3	900	150	0.7	272-BGA	296-19390-ND◆	26.70	22.70	21.03	TMS320C6712DZDP150
4K / 4K / 256K	2	16◊	HPI / 16	2	1.4	3.3	1800	300	1.6	272-BGA	296-19391-ND◆	51.94	45.83	43.54	TMS320C6713BZDP300
4K / 4K / 256K†	2	16◊	HPI / 16	2	1.2	3.3	1800	300	—	272-BGA	296-23624-ND◆	100.80	89.78	85.05	SM32C6713BGDPM30EP
4K / 4K / 256K	2	16◊	HPI / 16	2	1.2	3.3	1800	225	—	272-BGA	296-26844-ND◆ ***NEW!***	42.64	36.88	34.58	TMS320C6713BGDP225
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.4	3.3	1800	300	—	272-BGA	296-17377-ND	51.94	45.83	43.54	TMS320C6713BGDP300
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1200	200	1.0	272-BGA	296-26871-ND ***NEW!***	43.48	37.60	35.25	TMS32C6713BGDPA200
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1200	200	1.0	208-HLQFP	296-17378-ND◆	35.20	29.92	27.72	TMS320C6713BPYP200
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1000	225	1.0	272-BGA	296-18277-ND◆	42.64	36.88	34.58	TMS320C6713BZDP225
4K / 4K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1.2	200	—	272-BGA	296-26872-ND◆ ***NEW!***	43.48	37.60	35.25	TMS32C6713BZDPA200
32K / 32K / 256K	—	32◊	HPI / 16	2	1.2	3.3	1800	300	—	176-HLQFP	296-23783-ND◆	26.10	22.19	20.56	TMX320C6745APTP3
32K / 32K / 256K	—	32◊	HPI / 16	2	1.2	3.3	2100	375	—	256-BGA	296-27648-5-ND◆ ***NEW!***	26.00	22.10	20.48	TMS320C6747BZKB3
32K / 64K / 384K	—	DMAX	—	1	1.2	3.3	1200	200	0.8	144-TQFP	296-21721-ND◆	14.63	12.31	11.31	TMS320C6720BRFP200
32K / 256K / 384K	2	DMAX	UHPI	1	1.2	3.3	2100	225	1.0	144-TQFP	296-21424-ND◆	21.60	18.36	17.01	TMSDC6722BRFPA225
32K / 256K/ 384K	—	DMAX	UHPI	1	1.2	3.3	2100	250	—	256-BGA	296-26875-5-ND◆ ***NEW!***	42.92	37.12	34.80	TMSDC6727BZDHA250
32K / 32K / 512K†	2	16◊	HPI / 16	2	1.2	3.3	1200	200	0.8	272-BGA	296-17149-ND	30.00	25.50	23.63	TMS320C6711DGDP200
32K / 256K / 384K	—	DMAX	UHPI	1	1.2	3.3	2100	200	75	144-HTQFP	296-24957-ND◆ ***NEW!***	19.69	16.56	15.22	TMS320C6722BRFP200
32K / 256K / 384K	3	DMAX	UHPI	1	1.2	3.3	2100	266	—	144-HTQFP	296-26845-ND◆ ***NEW!***	28.00	23.80	22.05	TMS320C6726BRFP266
32K / 256K / 384K	3	DMAX	UHPI	1	1.4	3.3	2100	350	—	256-BGA	296-26846-5-ND◆ ***NEW!***	50.23	43.44	40.73	TMS320C6727BZDH350
32K / 32K / 256K	2	2-32	HPI / 16	4	1.2	3.3	1800	300	—	361-NFBGA	296-24844-5-ND ***NEW!***	36.50	31.03	28.75	TMX320C6748ZCE
32K / 32K / 256K	2	2-32	HPI / 16	4	1.2	3.3	1800	300	—	361-NFBGA	296-24845-5-ND◆ ***NEW!***	36.50	31.03	28.75	TMX320C6748ZWT

◆ ***RoHS Compliant*** ‡ Includes on-chip Turbo (TCP) and Viterbi (VCP) co-processors †† Multi-Channel Buffered Serial Port ◊ Enhanced DMA † Format represents cache memory architecture: [program cache] / [data cache] / [unified cache]

DaVinci™ Video Processors

CPU	RAM	Freq. (MHz)	On-Chip L1/SRAM	Video Port (Configurable)	Hardware Accelerators	Hardware Coprocessor	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
									1	25	100	
1 C64x; Video	—	600	32KB	3 20-Bit Dual-Ch.	—	—	548-FCBGA	296-26848-ND◆✔	63.24	55.80	53.01	TMS320DM642AZDK6
1 C64x; Video	—	720	32KB	3 20-Bit Dual-Ch.	—	—	548-FCBGA	296-26849-ND◆✔	83.60	74.46	70.54	TMS320DM642AZDK7
1 C64x; Video	—	600	32KB	3 20-Bit Dual-Ch.	—	—	548-FCBGA	296-26850-ND◆✔	63.24	55.80	53.01	TMS320DM642AZNZ6
1 C64x; Video	—	720	32KB	3 20-Bit Dual-Ch.	—	—	548-FCBGA	296-26851-ND◆✔	83.60	74.46	70.54	TMS320DM642AZNZ7
1 C64x + ; 1 ARM9; DaVinci Video	—	513	112KB(DSP), 32KB(ARM)	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1 VICP - 256.5MHz	361-BGA	296-21972-ND◆	52.17	45.12	42.30	TMS320DM6441ZWT
1 C64x + ; 1 ARM9; DaVinci Video	—	594	112KB (DSP), 40KB (ARM)	1 Dedicated Output	OSD, Resizer	—	361-NFBGA	296-21260-ND◆	54.66	48.23	45.82	TMS320DM6443ZWT

✔ ***NEW!*** ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DaVinci™ Video Processors *(Cont.)*

CPU	RAM	Freq. (MHz)	On-Chip L1/SRAM	Video Port (Configurable)	Hardware Accelerators	Hardware Coprocessor	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
1 C64x + ; 1 ARM9; DaVinci Video	—	594	112KB (DSP), 40KB (ARM)	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1VICP-297MHz	361-NFBGA	296-23577-ND◆	60.61	53.48	50.81	TMS320DM6446AZWT
1 C64x + ; 1 ARM9; DaVinci Video	—	513	112KB (DSP), 32KB (ARM)	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1VICP-256.5MHz	361-NFBGA	296-26853-5-ND◆✔	54.82	47.41	44.45	TMS320DM6441AZWT
1 C64x + ; 1 ARM9; DaVinci Video	—	594	112KB (DSP), 40KB (ARM)	1 Dedicated Output	OSD, Resizer	—	361-NFBGA	296-26854-5-ND◆✔	51.94	45.83	43.54	TMS320DM6443AZWT
1 C64x + 1 ; ARM9; DaVinci Video	—	513	112KB (DSP), 40KB (ARM)	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1VICP-256.5MHz	361-NFBGA	296-26855-5-ND◆✔	60.61	53.48	50.81	TMS320DM6446AZWTA
1 C64x +; DaVinci Video	—	600	112KB	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	—	361-NFBGA	296-26852-5-ND◆✔	44.40	38.40	36.00	TMS320DM6437ZWT6
1 C64x + ; 1 ARM9; DaVinci HD Video	—	729	56KB (ARM), 64KB (DSP)	1 for Dual SD or Single HD Display, 1 for Dual SD or Single HD or Single Raw Capture, VPIF	Anti-Alias Filtering, Chroma Conversion, Edge Padding, VDCE	2 HDVICPs	529-FCBGA	296-26856-5-ND✔	124.41	112.18	108.51	TMS320DM6467ZUT7
1 C64x+ ; 1 ARM9; DaVinci HD Video	—	594	56KB (ARM), 64KB (DSP)	1 for Dual SD or Single HD Display, 1 for Dual SD or Single HD or Single Raw Capture, VPIF	Anti-Alias Filtering, Chroma Conversion, Edge Padding, VDCE	2 HDVICPs	529-FCBGA	296-26857-5-ND◆✔	119.42	107.68	104.16	TMS320DM6467ZUTA
1 C64x+; DaVinci Video	—	900	64KB	5 16-Bit Dual-Ch.	VICP - 450MHz	—	529-FCBGA	296-26858-5-ND◆✔	92.72	82.58	78.24	TMS320DM648ZUT9
1 ARM9, DaVinci Video	32	216	—	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1 MJCP	337-NFBGA	296-23301-ND◆	26.00	22.10	20.48	TMS320DM355ZCE216
1 ARM9, DaVinci Video	32	216	—	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1MJCP	337-NFBGA	296-23302-ND◆	37.10	31.54	29.22	TMS320DM355ZCE270
1 ARM9, DaVinci Video	32	216	—	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1 MJCP	337-NFBGA	296-26847-5-ND◆✔	30.60	26.01	24.10	TMS320DM355ZCEA216
1 ARM9, DaVinci Video	32	216	—	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1MJCP	337-NFBGA	296-24947-ND✔	53.13	46.88	44.54	SM32DM355GCEM216EP
1 ARM9, DaVinci Video	32	—	—	1 Dedicated Input, 1 Dedicated Output	H3A, OSD, Previewer, Resizer	1MJCP, 1HDVICP	338-NFBGA	296-24397-ND◆	48.83	45.57	42.32	TMX320DM365AZCE

✔ ***NEW!*** ◆ ***RoHS Compliant***

TMS320C5000™ Family

TMS320C5000™ DSP Platform

The C5000™ DSP platform offers a broad portfolio, including the OMAP5910 processor, which integrates a TMS320C55x™ DSP core with a TI-enhanced ARM® on a single chip. With the industry's most power-efficient performance, peripheral options and small packaging, this platform provides designers a lead in today's portable Internet and wireless communication markets. Optimal for designers of power-sensitive systems, the C5000 DSP platform offers power consumption as low as 0.33 mA/MHz and performance up to 600 MIPS. 6 channel DMA Controller per core.

RAM (Bytes)	ROM (Bytes)	USB	ADC	I2C	RTC	McBSP††	MMC/SD	Timers	MIPS	Operating Voltage Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
									TMS320C55x (Fixed Point)									
32K	32K	—	—	Y	—	2	—	3	600	1.26	3.3	300	201-BGA	296-17379-ND	11.25	9.23	8.33	TMS320VC5501GZZ300
	32K	—	—	Y	—	2	—	3	600	1.26	3.3	300	176-LQFP	296-17380-ND◆	11.25	9.23	8.33	TMS320VC5501PGF300
64K	32K	—	—	Y	—	3	—	3	400	1.26	3.3	200	201-BGA	296-17381-ND	13.86	11.66	10.71	TMS320VC5502GZZ200
	32K	—	—	Y	—	3	—	3	600	1.26	3.3	200	201-BGA	296-17405-ND	17.82	14.99	13.77	TMS320VC5502GZZ300
	32K	—	—	Y	—	3	—	4	—	1.26	3.3	200	176-LQFP	296-26864-ND◆ ***NEW!***	13.86	11.66	10.71	TMS320VC5502PGF200
	32K	—	—	Y	—	3	—	3	600	1.26	3.3	300	176-LQFP	296-17382-ND◆	17.82	14.99	13.77	TMS320VC5502PGF300
	32K	—	—	Y	—	3	—	3	400	1.26	3.3	200	201-BGA	296-26865-ND◆ ***NEW!***	13.86	11.66	10.71	TMS320VC5502ZZZ200
	64K	—	—	Y	Y	3	—	2	400	1.6	2.7	200	179-BGA	296-17383-ND	14.85	12.49	11.48	TMS320VC5503GHH
	64K	—	—	Y	Y	3	—	2	400	1.6	2.7	200	144-LQFP	296-17384-ND	14.85	12.49	11.48	TMS320VC5503PGE
	64K	Y	Y	Y	Y	3	Y	2	400	1.6	2.7	200	144-LQFP	296-17287-ND◆	20.79	17.49	16.07	TMS320VC5507PGE
	64K	Y	Y	Y	Y	3	Y	2	400	1.6	2.7	200	179-BGA	296-17286-ND	20.79	17.49	16.07	TMS320VC5507GHH
128K	64K	Y	—	Y	Y	3	—	2	400	1.2	3.3	200	144-LQFP	296-21422-ND◆	14.30	12.03	11.05	TMS320VC5506PGE
	64K	Y	—	Y	Y	3	—	2	400	1.2	3.3	200	179-BGA	296-21423-ND◆	14.30	12.03	11.05	TMS320VC5506ZHH
	64K	Y	—	Y	Y	3	—	3	216	1.2	2.7 ~ 3.6	108	179-BGA	296-21421-ND◆	14.30	12.03	11.05	TMS320VC5506GHH
256K	128	Y	Y	Y	Y	3	—	4	200	1.6	3.3	200	144-LQFP	296-25195-ND◆ ***NEW!***	37.00	32.00	30.00	SM320VC5507PGESEP
	128	Y	—	Y	Y	—	Y	4	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27196-5-ND ***NEW!***	14.19	11.94	10.97	TMS320C5504AZCH12
	128	Y	—	Y	Y	—	Y	3	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27198-5-ND ***NEW!***	16.50	13.88	12.75	TMS320C5514AZCH12
	128	Y	—	Y	Y	—	Y	4	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27200-5-ND ***NEW!***	16.72	14.06	12.92	TMX320C5504AZCH12
	128	Y	—	Y	Y	—	Y	3	—	1.3	1.8 ~ 3.3	120	196-NFBGA	296-25758-ND◆ ***NEW!***	19.36	16.28	14.96	TMX320C5514AZCH12
	64K	Y	Y	Y	Y	3	Y	2	288	1.6	3.3	200	179-BGA	296-16701-ND	28.80	24.48	22.68	TMS320VC5509AGHH
	64K	Y	Y	Y	Y	3	Y	2	288	1.6	3.3	200	144-LQFP	296-17351-ND◆	28.80	24.48	22.68	TMS320VC5509APGE
	64K	Y	Y	Y	Y	3	Y	2	—	1.6	3.0 ~ 3.3	200	179-BGA	296-26866-ND◆ ***NEW!***	28.80	24.48	22.68	TMS320VC5509AZHH
320K	128	Y	Y	Y	Y	—	Y	5	60	1.3	3.3	100	196-NFBGA	296-24582-5-ND◆ ***NEW!***	14.96	12.58	11.56	TMX320VC5505DZCH
	128	Y	Y	Y	Y	—	Y	3	—	1.3	1.8 ~ 3.3	120	196-NFBGA	296-25759-ND◆ ***NEW!***	20.70	17.60	16.31	TMX320C5515AZCH12
	128	Y	—	Y	Y	—	Y	3	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27197-5-ND ***NEW!***	17.16	14.43	13.26	TMS320C5505AZCH12
	128	Y	Y	Y	Y	—	Y	3	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27199-5-ND ***NEW!***	19.36	16.28	14.96	TMS320C5515AZCH12
	128	Y	—	Y	Y	—	Y	3	—	1.30	1.8 ~ 3.3	120	196-NFBGA	296-27201-5-ND ***NEW!***	20.13	16.93	15.56	TMX320C5505AZCH12
	32K	—	—	—	—	3	—	2	400	1.6	3.3	200	240-BGA	296-14199-5-ND	34.00	28.90	26.78	TMS320VC5510AGGW2
344K	32K	—	—	—	—	3	—	2	—	1.6	3.3	200	240-BGA	296-26867-ND◆ ***NEW!***	34.00	28.90	26.78	TMS320VC5510AZGW2
	32K	—	—	—	—	3	—	2	—	1.6	3.3	200	240-BGA	296-26868-ND◆ ***NEW!***	39.80	33.83	31.35	TMS320VC5510AZGWA2

RAM (Bytes)	ROM (Bytes)	DAT/PRO (ADDR) Bytes	McBSP††	Operating Voltage Core	I/O	COM	Timers	Frequency (MHz)	MIPS	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
							TMS320C54x (Fixed Point)								
6K	48K	64K/64K	2	3.3	3.3	HPI 8	1	50	50	128-LQFP	296-2014-5-ND	27.10	23.04	21.35	TMS320LC545APBK-50
16K	8K	128K/2M	2	1.8	3.3	HPI 8	2	50	50	144-LQFP	296-12148-5-ND◆	8.75	7.18	6.48	TMS320VC5401PGE50
	8K	128K/2M	2	1.8	3.3	HPI 8	2	50	50	144-BGA	296-12147-5-ND◆	8.75	7.18	6.48	TMS320VC5401GGU50
	8K	128K/2M	2	1.8	3.3	HPI 8	2	50	50	144-BGA	296-19392-ND◆	8.50	6.97	6.29	TMS320VC5401ZGU50
32K	8K	128K/2M	2	1.8	1.8-3.6	HPI 8	2	80	80	144-BGA	296-10759-ND◆	12.10	10.18	9.35	TMS320UC5402GGU-80
	8K	128K/2M	2	1.8	3.3	HPI 8	2	100	100	144-BGA	296-10761-ND◆	12.10	10.18	9.35	TMS320VC5402GGU100
	8K	128K/2M	2	1.8	1.8-3.6	HPI 8	2	80	80	144-LQFP	296-10760-ND◆	12.10	10.18	9.35	TMS320UC5402PGE-80
	8K	128K/2M	2	1.8	3.3	HPI 8	2	100	100	144-LQFP	296-10762-ND◆	12.10	10.18	9.35	TMS320VC5402PGE100
	32K	128K/16M	3	1.6	3.3	HPI 8	1	160	160	144-BGA	296-12676-ND◆	21.80	18.53	17.17	TMS320VC5402AGGU16
	32K	128K/16M	3	1.6	3.3	HPI 8	1	160	160	144-LQFP	296-12677-ND◆	21.80	18.53	17.17	TMS320VC5402APGE16
	32K	128K/16M	3	1.6	3.3	HPI 8	1	160	160	144-BGA	296-19393-ND◆	21.80	18.53	17.17	TMS320VC5402AZGU16
	8K	128K/16M	2	1.8	3.3	HPI 8	2	100	100	144-BGA	296-26862-ND◆ ***NEW!***	12.10	10.18	9.35	TMS320VC5402ZGU100
	128K	128K/16M	3	1.5	3.3	HPI 8/16	2	120	120	144-BGA	296-17150-ND◆	17.60	14.80	13.60	TMS320VC5404GGU
	128K	128K/16M	3	1.5	3.3	HPI 8/16	2	120	120	144-LQFP	296-15712-ND◆	17.60	14.80	13.60	TMS320VC5404PGE
64K	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-BGA	296-12073-ND◆	24.60	20.91	19.38	TMS320VC5409AGGU12
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-BGA	296-12074-ND◆	27.30	23.21	21.50	TMS320VC5409AGGU16
	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-LQFP	296-12075-ND◆	24.60	20.91	19.38	TMS320VC5409APGE12
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-LQFP	296-12076-ND◆	27.30	23.21	21.50	TMS320VC5409APGE16
	32K	128K/16M	3	1.8	1.8-3.6	HPI 8/16	1	100	80	144-BGA	296-12112-ND◆	30.80	26.18	24.26	TMS320UC5409GGU-80
	32K	128K/16M	3	1.8	3.3	HPI 8/16	1	100	100	144-BGA	296-10763-ND◆	20.90	17.77	16.46	TMS320VC5409GGU100
	32K	128K/16M	3	1.8	3.3	HPI 8/16	1	100	100	144-LQFP	296-10764-ND◆	20.90	17.77	16.46	TMS320VC5409PGE100
	32K	128K/16M	3	1.8	1.8-3.6	HPI 8/16	1	100	80	144-LQFP	296-12146-5-ND◆	30.80	26.18	24.26	TMS320UC5409PGE-80
	32K	64K/64K	3◊	2.5	3.3	HPI 8	1	80	80	144-BGA	296-1933-5-ND	44.29	38.31	35.91	TMS320VC549GGU-80
	32K	64K/64K	3◊	2.5	3.3	HPI 8	1	100	100	144-BGA	296-2016-5-ND	48.77	42.18	39.54	TMS320VC549GGU-100
	32K	64K/64K	3◊	2.5	3.3	HPI 8	1	80	80	144-LQFP	296-1935-5-ND◆	44.29	38.31	35.91	TMS320VC549PGE-80
80K	256K	64K/64K	2	1.5	3.3	HPI 8	2	118	118	144-BGA	296-15033-ND◆	22.08	18.77	17.39	TMS320C54V90AGGU
	256K	64K/64K	2	1.5	3.3	HPI 8	2	118	118	144-LQFP	296-15034-ND◆	22.08	18.77	17.39	TMS320C54V90APGE
	256K	64K/64K	2	1.5	3.3	HPI 8	2	118	118	144-BGA	296-16933-ND◆	22.08	18.77	17.39	TMS320C54V90BGGU
	256K	64K/64K	2	1.5	3.3	HPI 8	2	118	118	144-LQFP	296-16934-ND◆	22.08	18.77	17.39	TMS320C54V90BPGE
128K	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-BGA	296-12077-ND◆	29.60	25.16	23.31	TMS320VC5410AGGU12
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-BGA	296-12078-ND◆	32.90	27.97	25.91	TMS320VC5410AGGU16
	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-LQFP	296-12079-ND◆	29.60	25.16	23.31	TMS320VC5410APGE12
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-LQFP	296-12080-ND◆	32.90	27.97	25.91	TMS320VC5410APGE16
	32K	128K/16M	3	2.5	3.3	HPI 8	1	100	100	144-LQFP	296-10766-ND◆ ***NEW!***	54.48	47.12	44.18	TMS320VC5410PGE100

◆ ***RoHS Compliant*** †† Multi-Channel Buffered Serial Port ◊ 1TDM port

(Continued)

TMS320C5000™ Family *(Cont.)*

RAM (Bytes)	ROM (Bytes)	DAT/PRO (ADDR) Bytes	McBSP††	Operating Voltage Core	Operating Voltage I/O	COM	Timers	Frequency (MHz)	MIPS	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Texas Instruments Part No.
256K	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-BGA	296-12168-ND◆	45.70	39.52	37.05	TMS320VC5416GGU120
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-BGA	296-11660-ND◆	50.69	43.84	41.10	TMS320VC5416GGU160
	32K	128K/16M	3	1.5	3.3	HPI 8/16	1	120	120	144-LQFP	296-12169-ND◆	45.70	39.52	37.05	TMS320VC5416PGE120
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-LQFP	296-12170-ND◆	50.69	43.84	41.10	TMS320VC5416PGE160
	32K	128K/16M	3	1.6	3.3	HPI 8/16	1	160	160	144-BGA	296-26863-ND◆ ***NEW!***	50.69	43.84	41.10	TMS320VC5416ZGU160
384K	—	32K	6	1.8	3.3	HPI 16	2	100	200	144-BGA	296-10767-ND◆	96.72	86.15	81.61	TMS320VC5420GGU200
	—	32K	6	1.8	3.3	HPI 16	2	100	200	144-LQFP	296-12191-ND◆	96.72	86.15	81.61	TMS320VC5420PGE200
512K	8K	32K	6	1.8	3.3	HPI 16	2	100	200	144-BGA	296-10768-ND◆	99.12	88.28	83.64	TMS320VC5421GGU200
	8K	32K	6	1.8	3.3	HPI 16	2	100	200	144-LQFP	296-10769-ND◆	99.12	88.28	83.64	TMS320VC5421PGE200
1280K	—	32K	12	1.6	3.3	HPI 16	4	133	532	169-BGA	296-15127-5-ND◆	157.54	144.51	141.25	TMS320VC5441GGU

◆ ***RoHS Compliant*** †† Multi-Channel Buffered Serial Port ◊ 1TDM port

TMS320C54x Family — ARM7 + C54x

RoHS COMPLIANT

The TMS320VC5470 integrates a DSP subsystem based on the TMS320C54x architecture and a RISC microcontroller subsystem based on the ARM7TDMI core. The DSP subsystem includes 72Kx16-bit SRAM, a timer, a DMA controller, an external memory interface, and two McBSPs. The MCU subsystem includes three timers, general purpose I/O, and an external memory interface.

CPU	RAM (Bytes)	Serial Ports	Timers	Miscellaneous	Ethernet	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Texas Instruments Part No.
DSP + RISC (Fixed Point) — 1.8V Core, 3.3V I/O												
C54x ARM7TDMI	144K 16K	2 McBSP I^{2}C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— —	100 47.5	257-BGA	296-12751-ND	25.50	21.68	20.09	TMS320VC5470GHK
C54x ARM7TDMI	144K 16K	2 McBSP I^{2}C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— 10/100, MAC	100 47.5	257-BGA	296-12752-ND	27.80	23.63	21.90	TMS320VC5471GHK

NEW! Sitara™ ARM® Cortex™ A8 and ARM9 Microprocessor

RoHS COMPLIANT

Sitara high performance, ARM-based microprocessors are comprised of the ARM Cortex-A8 or ARM9 based embedded microporcessors with speeds ranging from 200MHz to beyond 1GHz in future devices. The portfolio of microprocessors includes unique combinations of peripherals and accelerators to drive down system cost and expand connectivity options.

RAM (kB)	ROM (kB)	USB	CAN	I2C	McBSP††	MMC/SD	McSPI	UART	Timers	EMAC	DMA	Video Port	EMIF	Operating Voltage Core	Operating Voltage I/O	RISC Freq. (MHz)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Texas Instruments Part No.
64	32	2	1	3	5	3	4	3	13	10/100	32-Bit Ch. DMA	1 Dedicated Output 1 Dedicated Input	1 32-bit SDRC 1 16-bit GPMC	1.2	1.8 ~ 3.3	600	491-NFBGA	296-27443-ND	44.40	38.40	36.00	XAM3517ZCN
—	64K	2	—	2	—	1	—	3	2	10/100	32-Bit	EDMA	1 16/8 Bit 1 32/16 Bit	1.2	3.3	375	256-BGA	296-27565-5-ND	13.09	11.01	10.12	AM1707BZKB3
—	64K	2	—	2	—	1	—	3	2	10/100	2EDMA3	—	1 16/8 Bit 1 32/16 Bit	1.2	3.3	375	256-BGA	296-27566-5-ND	15.73	13.23	12.16	AM1707BZKBA3
—	64K	1	—	2	—	1	—	3	2	10/100	2EDMA3	—	1 8 Bit 1 16 Bit	1.2	3.3	375	176-HLQFP	296-27568-5-ND	11.99	10.09	9.27	AM1705BPTP3
—	64K	1	—	2	—	1	—	3	2	10/100	2EDMA3	—	1 8 Bit 1 16 Bit	1.2	3.3	456	176-HLQFP	296-27569-5-ND	13.09	11.01	10.12	AM1705BPTP4

†† Multi-Channel Buffered Serial Port

OMAP — ARM9 + C55x

OMAP Processors integrating the command and control functionality of ARM, coupled with low-power, real-time signal processing capabilities of a DSP.
The OMAP59xx platform is ideal for portable data terminal applications such as portable medical devices (portable defibrillation, home medical test and analysis) asset and inventory management, (parcel tracking and location, stock inventory and replenishment, real-time data capture with analysis and interpretation) and point of sale (sales and membership processing, merchandising and pricing management verification and authentication) It enables embedded developers to program using familiar development environments by supporting leading operating systems such as Microsoft® Windows® CE.NET, Linux®, and TI's DSP/BIOS real-time scalable kernel. This open development environment makes it possible for designers to deliver innovative products to the market faster, utilizing familiar tools, a standard application programming interface (API) and a seamless interface to the DSP through an optimized interprocessor communication mechanism. The built-in interprocessor communication mechanism eliminates the need for developers to program the RISC and DSP independently resulting in reduced programming efforts.

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Miscellaneous	Operating Voltage Core	Operating Voltage I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Texas Instruments Part No.
Fixed Point														
C55x ARM9DTMI	160K 192K†	32K	2 McBSP, 2 McSI, 1 McBSP, USB 1.1, I^{2}C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT, 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-16744-ND	46.99	40.64	38.10	OMAP5910JGZG2
C55x ARM9DTMI	160K 192K†	32K	2 McBSP, 2 McSI, 1 McBSP, USB 1.1, I^{2}C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT, 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-17462-ND	46.99	40.64	38.10	OMAP5910JGDY2
C55x ARM9DTMI	160K 192K†	32K	2 McBSP, 2 McSI, 1 McBSP, USB 1.1, I^{2}C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT, 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-18502-ND◆	46.99	40.64	38.10	OMAP5910JZZG2
C55x ARM9DTMI	160K 250K†	32K	2 McBSP, 2 McSI, 1 McBSP, USB 1.1, I^{2}C, µwire, IRDA, 3 UARTS	14 32-Bit GP, 2 16-Bit WD, 1 32-kHz OS, 1RTC	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	192	289-BGA	296-20671-ND	44.59	38.56	36.15	OMAP5912ZZG
C55x ARM926EJ-S	160K 256K†	32K	2 McBSP, 2 McSI, 3 UARTs, USB 1.1, USB OTG, 1McBSP, µwire, I^{2}C, HDQ, SPI, V-Link	4 GP, 1 WDT, 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	192	289-BGA	296-20940-ND◆	44.59	38.56	36.15	OMAP5912ZDY
C674x ARM926EJ-S	64K 256K★	1024K	2 SPI, I^{2}C, USB 1.1 OHCI, USB 2.0 OTG EMAC, HPI, 3 UARTS	1 64-Bit GP, 1 64-Bit GP WDT 1RTC	3 Multichannel Audio Serial Ports, MMC, SD, SDIO, LCD	1.2	1.8/3.3	300	256-BGA	296-23789-ND◆	39.20	33.32	30.87	XOMAPL137BZKB3
1 64x+, ARM Cortex-A8	64K	16K 32K	3 I^{2}C, 4 McSPI, 1 HDQ/1-Wire, 3 UART, 2 USB	12 32-Bit GP, 2 32-Bit WD	Video Port (Configurable), 3 MMC/SD	0.8 ~ 1.35	18/3.0	430	515-FCBGA	296-24607-ND◆ ***NEW!***	84.00	74.82	70.88	OMAP3525DZCBC
1 64x+, ARM Cortex-A8	96K 256K	16K 32K	3 I^{2}C, 4 McSPI, 1 HDQ/1-Wire, 3 UART, 2 USB	12 32-Bit GP, 2 32-Bit WD	Video Port (Configurable), Graphics Accelerator, 3 MMC/SD	0.8 ~ 1.35	1.8/3.0	430	515-FCBGA	296-24608-ND ***NEW!***	112.11	99.85	94.60	OMAP3530DZCBB
600 MHz ARM Cortex A8	64K	112K	5MCBSP, 3 I^{2}C, 4McSPI, 1HS	12GP, 2WDT, US OTG	Video Port (Configurable), Graphics Accelerator, 3 MMC/SD	—	3.3	600	515-FCBGA	296-23175-ND	69.99	62.34	59.06	XOMAP3530BCBB
1 C674x; 1 ARM9	64K 256K	1024K	10/100 EMAC, 1 16-bit HPI, 2 I^{2}C, 2 SPI, 1 SATA, 3 UART, 1 USB	3 64-Bit, 1 64-Bit GP/WD	1 LCD, 2 MMC/SD, 2 PWM	1.2/1.1/1.0	1.8/3.3	300	361-NFBGA	296-24846-ND◆ ***NEW!***	37.20	31.62	29.30	XOMAPL138ZCE
1 C674x; 1 ARM9	64K 256K	1024K	10/100 EMAC, 1 16-bit HPI, 2 I^{2}C, 2 SPI, 1 SATA, 3 UART, 1 USB	3 64-Bit GP, 1 64-Bit GP/WD	1 LCD, 2 MMC/SD, 2 PWM	1.2/1.1/1.0	1.8/3.3	300	361-NFBGA	296-24847-5-ND◆ ***NEW!***	37.20	31.62	29.30	XOMAPL138ZWT
ARM Cortex-A8	32K 256K	132K	3 I^{2}C, 4 McSPI, 1 HDQ/1-wire, 3 UART, 2 USB	12 32-Bit GP, 2 32-Bit WD	Video Port (Configurable), MMC/SD, Pop Interface	0.8 ~ 1.35	1.8/3.0	600	515-FCBGA	296-24970-ND◆ ***NEW!***	41.72	36.08	33.83	OMAP3503DCBB

◆ ***RoHS Compliant*** † Shared with C55x CPU ★ Shared with 128K RAM Memory * External memory interfaces may use 1.8, 2.75, or 3.3V nominal

(Continued)

OMAP — ARM9 + C55x *(Cont.)*

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Miscellaneous	Operating Voltage		Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						Core	I/O				1	25	100	
1 C674x; 1 ARM9	64K 256K	1024K	10/100 EMAC, 1 16-bit HPI, 2 I^{2}C, 2 SPI, 1 SATA, 3 UART, 1 USB	3 64-Bit GP, 1 64-Bit GP/WD	1 LCD, 2 MMC/SD, 2 PWM	1.2/1.1/1.0	1.8/3.3	300	361-NFBGA	296-25764-ND◆ ***NEW!***	37.20	31.62	29.30	OMAPL138AZWT3
ARM Cortex-A8	64K	112K	3 I^{2}C, 4 McSPI, 1 HDQ/1-wire, 3 UART	12 32-Bit GP, 2 32-Bit WD, 1 32-Bit ST	Video Port, 3 MMC/SD	0.985 ~ 1.35	1.8/3.0	600	515-FCBGA	296-25814-ND◆ ***NEW!***	43.48	37.60	35.25	OMAP3503DZCBCS

◆ ***RoHS Compliant*** † Shared with C55x CPU ★ Shared with 128K RAM Memory ⋆ External memory interfaces may use 1.8, 2.75, or 3.3V nominal

TMS320C3x Family

RoHS COMPLIANT

RAM (32-Bit Word)	ROM (32-Bit Word)	DMA	Timers	MIPS	Operating Voltage	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
										1	25	100	
TMS320C3x (Floating Point)													
512	Supports Bootloader	2	2	20	5V	40	0 ~ 85	144-QFP	296-1928-5-ND	21.12	17.96	16.64	TMS320C32PCM40
	Supports Bootloader	1	2	20	5V	40	0 ~ 85	132-BQFP	296-1926-5-ND ***NEW!***	54.76	48.32	45.90	TMS320C31PQL40
	Supports Bootloader	1	2	30	5V	60	0 ~ 85	132-BQFP	296-1927-5-ND ***NEW!***	66.20	58.41	55.49	TMS320C31PQL60

TMS320C2000™ Family

The C2000™ DSP platform offers the most comprehensive line of DSP solutions driving the digital control revolution, the C2000 DSP platform provides the industry's highest performing and most code-efficient DSPs. With a unique combination of on-chip peripherals such as Flash memory, ultrafast A/D converters as well as robust CAN modules, the C2000 DSP platform sets the standard for performance and peripheral integration.

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Timers	Serial	Operating Voltage		Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O					1	25	100	
TMS320C20x (Fixed Point) — RoHS Compliant														
32K	4.5K	—	1	2	3.3	5	40	0 ~ 70	100-LQFP	296-2007-5-ND	35.38	30.08	27.87	TMS320F206PZ
—	4.5K	32K	1	2	3.3	5	80	0 ~ 70	100-TQFP	296-2001-5-ND	23.14	19.67	18.23	TMS320C206PZ80
	4.5K	32K	1	2	3.3	5	80	-40 ~ 85	100-TQFP	296-2002-5-ND	25.44	21.63	20.04	TMS320C206PZA80
	4.5K	32K	1	2	3.3	3.3	80	0 ~ 70	100-LQFP	296-2012-5-ND	25.44	21.63	20.04	TMS320LC206PZ80
	4.5K	32K	1	2	3.3	3.3	80	-40 ~ 85	100-LQFP	296-2013-5-ND	27.98	23.79	22.04	TMS320LC206PZA80

Flash (16-Bit Word)	RAM (16-Bit Word)	Boot ROM (16-Bit Word)	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	Operating Voltage	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
														1	25	100	
TMS320C24x (Fixed Point) — 1.8V Core, 3.3V I/O — RoHS Compliant																	
8K	544	—	—	2	8	Y	Y	Y	5	20	0 ~ 70	38-PLCC	296-10750-5-ND	24.02	20.42	18.92	TMS320F241FN
	544	—	—	2	8	Y	Y	Y	5	20	0 ~ 70	64-QFP	296-10753-ND	22.26	18.93	17.53	TMS320F241PG
	544	—	—	2	8	Y	Y	Y	5	20	0 ~ 70	64-QFP	296-10754-ND ***NEW!***	22.26	18.93	17.53	TMS320F241PGA
	544	—	—	2	8	Y	Y	Y	5	20	0 ~ 70	144-LQFP	296-10755-ND	25.16	21.39	19.82	TMS320F243PGE
	544	256	—	2	7	—	Y	—	3.3	40	-40 ~ 125	144-LQFP	296-10756-ND ***NEW!***	25.16	21.39	19.82	TMS320F243PGEA
	1K	256	—	2	7	—	Y	—	3.3	40	-40 ~ 125	64-PQFP	296-12545-ND	17.27	14.53	13.35	TMS320LF2402APGS
	1K	256	—	2	7	—	Y	—	3.3	40	-40 ~ 85	64-LQFP	296-12544-ND	15.62	13.14	12.07	TMS320LF2402APGA
	1K	256	—	2	7	—	Y	—	3.3	40	-40 ~ 85	32-LQFP	296-14411-ND	8.75	7.18	6.48	TMS320LF2401AVFA
	1K	256	—	2	7	—	Y	—	3.3	40	-40 ~ 125	32-LQFP	296-19288-1-NDΔ	10.20	8.47	7.70	TMS320LF2401AVFS
	1K	256	—	2	7	—	Y	—	3.3	40	-40 ~ 125	32-LQFP	296-19288-2-ND◊		1636.25/250		TMS320LF2401AVFS
16K	1K	256	—	2	8	Y	Y	Y	3.3	40	-40 ~ 125	64-LQFP	296-12675-ND	20.02	16.84	15.47	TMS320LF2403APAGS
	1K	256	—	2	8	Y	Y	Y	3.3	40	-40 ~ 85	64-LQFP	296-12674-ND	18.15	15.27	14.03	TMS320LF2403APAGA
32K	2.5K	256	Y	4	16	Y	Y	Y	3.3	40	-40 ~ 125	144-LQFP	296-12549-ND	21.45	18.04	16.58	TMS320LF2407APGES
	2.5K	256	—	4	16	Y	Y	Y	3.3	40	-40 ~ 85	144-LQFP	296-12548-ND	19.47	16.38	15.05	TMS320LF2407APGEA
	2.5K	256	—	4	16	Y	Y	Y	3.3	40	-40 ~ 125	100-LQFP	296-12547-ND	20.24	17.02	15.64	TMS320LF2406APZS
	2.5K	256	—	4	16	Y	Y	Y	3.3	40	-40 ~ 85	100-LQFP	296-12546-ND	18.37	15.45	14.20	TMS320LF2406APZA
	2.5K	256	—	4	16	Y	Y	Y	3.3	40	-40 ~ 85	100-LQFP	296-26861-ND ***NEW!***	18.37	15.45	14.20	TMS320LF2406APZAR
	544	—	—	3	12	Y	Y	—	5	20	0 ~ 70	132-QFP	296-2009-5-ND ***NEW!***	29.12	24.76	22.94	TMS320F240PQ

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	Operating Voltage Core	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
																1	25	100	
TMS320C28x Family (Fixed Point) — 3.3V I/O																			
16K	2K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	38-TSSOP	296-27536-ND◆ ***NEW!***	5.18	4.17	3.80	TMS320F280200DAT
	2K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	48-LQFP	296-27537-ND◆ ***NEW!***	5.46	4.39	4.00	TMS320F280200PTT
	6K	1K	4K	—	—	9	8	Y	Y	Y	1.8	60	-40 ~ 85	100-LQFP	296-21874-ND◆	8.13	6.67	6.02	TMS320F28015PZA
	6K	1K	4K	—	—	9	8	Y	Y	Y	1.8	60	-40 ~ 85	100-LQFP	296-21875-ND◆	8.75	7.18	6.48	TMS320F28016PZA
	6K	1K	4K	—	—	9	8	Y	Y	Y	1.8	60	-40 ~ 85	100-LQFP	296-21876-ND◆	9.75	8.00	7.22	TMS320F2801PZA-60
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 85	100-BGA	296-18320-ND◆	12.76	10.73	9.86	TMS320F2801GGMA
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 125	100-BGA	296-18321-ND◆	14.08	11.84	10.88	TMS320F2801GGMS
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 85	100-LQFP	296-18322-ND◆	12.76	10.73	9.86	TMS320F2801PZA
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 125	100-LQFP	296-18323-ND◆	14.08	11.84	10.88	TMS320F2801PZS
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 85	100-BGA	296-18324-ND◆	12.76	10.73	9.86	TMS320F2801ZGMA
	6K	2K	4K	—	—	9	8	Y	1	Y	1.8	100	-40 ~ 125	100-BGA	296-18325-ND◆	14.08	11.84	10.88	TMS320F2801ZGMS
	12K	2K	8K	—	—	3	8	1	1	—	1.8	40	-40 ~ 85	38-TSSOP	296-24217-ND◆	7.38	6.05	5.46	TMX320F28023DAA
32K	3K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	38-TSSOP	296-27538-5-ND◆ ***NEW!***	5.60	4.50	4.10	TMS320F28020DAT
	3K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	48-LQFP	296-27539-ND◆ ***NEW!***	5.88	4.73	4.31	TMS320F28020PTT
	6K	1K	4K	—	—	9	8	2	Y	Y	1.8	60	-40 ~ 85	100-LQFP	296-21719-ND◆	12.00	9.84	8.88	TMS320F2802PZA-60
	6K	2K	8K x 16	—	—	4	8	1	1	—	1.8	60	-40 ~ 125	48-LQFP	296-27542-ND◆ ***NEW!***	7.38	6.05	5.46	TMS320F28026PTS
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-BGA	296-18326-ND◆	19.14	16.10	14.79	TMS320F2806GGMA
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-BGA	296-18327-ND◆	21.12	17.76	16.32	TMS320F2806GGMS
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-LQFP	296-18328-ND◆	19.14	16.10	14.79	TMS320F2806PZA
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-LQFP	296-18329-ND◆	21.12	17.76	16.32	TMS320F2806PZS
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-BGA	296-18330-ND◆	19.14	16.10	14.79	TMS320F2806ZGMA
	10K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-BGA	296-18331-ND◆	21.12	17.76	16.32	TMS320F2806ZGMS
	12K	64K	8K	—	—	9	16	2	2	1	1.8	100	-40 ~ 85	100-LQFP	296-19599-ND◆	15.62	13.14	12.07	TMS320F2802PZA
	12K	64K	8K	—	—	9	16	2	2	1	1.8	100	-40 ~ 125	100-LQFP	296-19600-ND◆	17.27	14.53	13.35	TMS320F2802PZS
	12K	64K	8K	—	—	9	16	2	2	1	1.8	100	-40 ~ 85	100-BGA	296-19601-ND◆	15.62	13.14	12.07	TMS320F2802ZGMA
	12K	64K	8K	—	—	9	16	2	2	1	1.8	100	-40 ~ 125	100-BGA	296-19602-ND◆	17.27	14.53	13.35	TMS320F2802ZGMS
	12K	2K	8K x 16	—	—	4	8	1	1	—	1.8	50	-40 ~ 105	38-TSSOP	296-27540-5-ND◆ ***NEW!***	6.30	5.07	4.62	TMS320F28022DAT
	12K	2K	8K x 16	—	—	4	8	1	1	—	1.8	50	-40 ~ 105	48-LQFP	296-27541-ND◆ ***NEW!***	6.58	5.29	4.82	TMS320F28022PTT
	12K	2K	8K x 16	—	—	4	8	1	1	—	1.8	60	-40 ~ 125	38-TSSOP	296-27293-5-ND◆ ***NEW!***	7.13	5.85	5.28	TMS320F28026DAS
64K	10K	1K	4K	—	—	19	16	Y	Y	—	1.8	100	-40 ~ 85	100-LQFP	296-21877-ND◆	21.89	18.41	16.92	TMS320F28044PZA
	10K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	38-TSSOP	296-27290-5-ND◆ ***NEW!***	6.16	4.95	4.51	TMS320F28021DAT
	10K	2K	8K x 16	—	—	4	8	1	1	—	1.8	40	-40 ~ 105	48-LQPF	296-27291-ND◆ ***NEW!***	6.44	5.18	4.72	TMS320F28021PTT
	12K	2K	6K x 16	—	—	4	8	1	1	—	1.8	50	-40 ~ 105	38-TSSOP	296-27220-ND◆ ***NEW!***	6.86	5.52	5.03	TMS320F28023DAT
	12K	2K	6K x 16	—	—	4	8	1	1	—	1.8	50	-40 ~ 125	38-TSSOP	296-27292-5-ND◆ ***NEW!***	6.50	5.33	4.81	TMS320F28023DAS
	12K	2K	8K x 16	—	—	4	8	1	1		1.8	60	-40 ~ 105	38-TSSOP	296-27294-5-ND◆ ***NEW!***	7.13	5.85	5.28	TMS320F28027DAT
	12K	2K	8K x 16	—	—	3	16	1	1	—	1.8	60	-40 ~ 125	38-TSSPOP	296-27211-ND◆ ***NEW!***	7.63	6.26	5.65	TMS320F28027DAS
	12K	2K	8K x 16	—	—	3	16	1	1	—	1.8	60	-40 ~ 105	48-LQFP	296-27212-ND◆ ***NEW!***	7.38	6.05	5.46	TMS320F28027PTT
	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-BGA	296-18332-ND◆	23.20	19.72	18.27	TMS320F2808GGMA

◆ ***RoHS Compliant*** Δ Cut Tape ◊ Tape and Reel *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

TMS320C2000™ Family *(Cont.)*

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	Operating Voltage Core	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
																1	25	100	
64K	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-BGA	296-18333-ND◆	25.60	21.76	20.16	TMS320F2808GGMS
	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-LQFP	296-18334-ND◆	23.20	19.72	18.27	TMS320F2808PZA
	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-LQFP	296-18335-ND◆	25.60	21.76	20.16	TMS320F2808PZS
	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 85	100-BGA	296-18336-ND◆	23.20	19.72	18.27	TMS320F2808ZGMA
	18K	2K	4K	—	—	15	16	Y	2	Y	1.8	100	-40 ~ 125	100-BGA	296-18337-ND◆	25.60	21.76	20.16	TMS320F2808ZGMS
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	128-LQFP	296-15987-5-ND◆	27.70	23.55	21.82	TMS320F2810PBKA
	18K	1K	4K x 16	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	128-LQFP	296-26859-ND◆ ***NEW!***	30.50	25.93	24.02	TMS320F2810PBKS
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 125	128-LQFP	296-17277-ND◆	35.20	29.92	27.72	TMS320F2810PBKQ
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	128-LQFP	296-15988-5-ND◆	29.50	25.08	23.24	TMS320F2811PBKA
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 125	128-LQFP	296-17278-ND◆	37.50	31.88	29.54	TMS320F2811PBKQ
128K	18K	1K	4K	Y	—	9	16	1	2	Y	1.8	150	-40 ~ 125	176-LQFP	296-26860-ND◆ ***NEW!***	34.70	29.50	27.33	TMS320F2812PGFS
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	100-BGA	296-21878-ND	25.90	22.02	20.40	TMS320F2809GGMA
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	100-LQFP	296-21879-ND◆	25.90	22.02	20.40	TMS320F2809PZA
	18K	1K	4K	—	—	15	16	4	2	2	1.8	100	-40 ~ 85	100-BGA	296-21880-ND◆	25.90	22.02	20.40	TMS320F2809ZGMA
	18K	1K	4K	Y	Y	4	16	Y	2	Y	1.8	150	-40 ~ 85	179-BGA	296-15989-5-ND	31.50	26.78	24.81	TMS320F2812GHHA
	18K	1K	4K	Y	Y	4	16	Y	2	Y	1.8	150	-40 ~ 125	179-BGA	296-17279-ND◆	37.00	32.00	30.00	TMS320F2812GHHQ
	18K	1K	4K	Y	Y	4	16	Y	2	Y	1.8	150	-40 ~ 125	176-LQFP	296-17280-ND◆	37.00	32.00	30.00	TMS320F2812PGFQ
	18K	2K	4K	Y	Y	7	16	Y	2	Y	1.9	150	-40 ~ 85	179-BGA	296-18338-ND◆	31.50	26.78	24.81	TMS320F2812ZHHA
	18K	2K	4K	Y	Y	7	16	Y	2	Y	1.9	150	-40 ~ 125	179-BGA	296-18339-ND◆	34.70	29.50	27.33	TMS320F2812ZHHS
256K	32K	1K	8K	Y	—	7	1	Y	2	Y	1.8	150	-40 ~ 85	128-LQFP	296-18916-ND◆	20.13	16.93	15.56	TMS320R2811PBKA
	32K	1K	8K	Y	—	7	1	Y	2	Y	1.8	150	-40 ~ 125	128-LQFP	296-18917-ND◆	23.30	19.81	18.35	TMS320R2811PBKQ
	32K	1K	8K	Y	—	7	1	Y	2	Y	1.8	150	-40 ~ 85	176-LQFP	296-18918-ND◆	21.30	18.11	16.78	TMS320R2812PGFA
	32K	1K	8K	Y	—	7	1	Y	2	Y	1.8	150	-40 ~ 125	176-LQFP	296-18919-ND◆	27.10	23.04	21.35	TMS320R2812PGFQ
	36K	2K	8K	Y	Y	4	16	Y	2	Y	1.9	150	-40 ~ 85	176-LQFP	296-15990-5-ND◆	31.50	26.78	24.81	TMS320F2812PGFA
512K	68K	2K	8K	2	1	4	18	1	3	2	1.9	150	-40 ~ 85	176-LQFP	296-23871-ND◆	29.10	24.74	22.92	TMS320F28235PGFA
	68K	2K	8K	2	1	4	18	1	3	2	1.9	150	-40 ~ 85	176-LQFP	296-23660-ND◆	31.30	26.61	24.65	TMS320F28335PGFA
	68K	2K	8K	2	1	4	18	1	3	2	1.9	150	-40 ~ 85	179-BGA	296-22069-ND◆	31.30	26.61	24.65	TMS320F28335ZHHA
	68K	2K	8K x 16	2	Y	4	18	1	—	2	1.9	150	-40 ~ 105	20-VQFN	296-25723-ND ***NEW!***	74.25	66.38	63.00	SM320F28335GJZMEP
1024K	18K	16K	64K	—	—	3	16	4	2	2	1.8	100	-55 ~ 125	100-LQFP	296-22218-ND◆ ***NEW!***	40.77	35.27	33.06	SM320F2808PZMEP
Delfino™ Microcontroller — RoHS Compliant																			
—	130K	—	8K	2	Y	3	6	2	3	2	1.1	200	-40 ~ 105	179-BGA	296-24215-ND	27.00	22.95	21.27	TMX320C28343ZHH
	258K	—	8K	2	Y	3	6	2	3	2	1.2	300	-40 ~ 105	256-BGA	296-24216-ND	39.40	33.49	31.03	TMX320C28346ZEP
512K	34K	2K	8K x 16	2	Y	4	18	1	—	2	1.9	150	-40 ~ 85	179-BGA	296-25243-ND ***NEW!***	37.00	32.00	30.00	SM320F28335GHHAEP
	64K	2K	8K x 16	2	Y	4	18	1	—	2	1.9	150	-40 ~ 125	176-HLQFP	296-24955-ND ***NEW!***	74.25	66.38	63.00	SM320F28335PTPMEP

◆ ***RoHS Compliant*** ∆ Cut Tape ◊ Tape and Reel

TMS470 Family

The TMS470 is derived from the 32-bit ARM7TDMI® core. This industry standard architecture includes two instruction sets, a 32-bit instructions for fast execution and 16-bit instructions for high code density. It allows unlimited switching between instruction sets and also provides run time decompression. Typical applications include industrial systems, medical instrumentation, consumer electronics, data processing and many other general purpose embedded applications.

Flash (KB)	RAM (KB)	Timer Channels	ADC	SPI	SCI	CAN2	I/O 3.3V	Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
											1	25	100	
TMS470R1x														
64	8	13	8 Ch, 10-Bit	2	2	SCC	40	48	80-LQFP	296-19270-ND◆	11.13	9.13	8.24	TMS470R1A64PNT
128	8	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-19267-ND◆	12.00	9.84	8.88	TMS470R1A128PZ-T
256	12	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-17754-ND◆	12.89	10.85	9.97	TMS470R1A256PZ
256	12	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-19268-ND◆	12.76	10.73	9.86	TMS470R1A256PZ-T
288	16	12	12 Ch, 10-Bit	2	2	SCC	57	48	144-LQFP	296-18723-ND◆	14.96	12.58	11.56	TMS470R1A288PGEA
288	16	12	12 Ch, 10-Bit	2	2	SCC	57	48	144-LQFP	296-21881-ND◆	14.96	12.58	11.56	TMS470R1A288PGET
288	16	12	12 Ch, 10-Bit	2	2	SCC	57	48	100-LQFP	296-21882-ND◆	14.30	12.03	11.05	TMS470R1A288PZ-T
384	32	16	12 Ch, 10-Bit	2	2	SCC	94	48	144-LQFP	296-18724-ND◆	17.05	14.34	13.18	TMS470R1A384PGET
384	32	16	12 Ch, 10-Bit	2	2	SCC	94	48	100-LQFP	296-19292-ND◆	16.39	13.79	12.67	TMS470R1A384PZ-T
512	32	32	16 Ch, 10-Bit	3	2	HECC	86	60	144-LQFP	296-19855-ND◆	19.80	16.65	15.30	TMS470R1B512PGET
768	48	32	16 Ch, 10-Bit	5	2	HECC	87	60	144-LQFP	296-19271-ND	25.90	22.02	20.40	TMS470R1B768PGE
768	48	32	16 Ch, 10-Bit	5	2	HECC	87	60	144-LQFP	296-19335-ND◆	23.90	20.32	18.83	TMS470R1B768PGET
1000	64	16	12 Ch, 10-Bit	2	3	HECC	93	60	144-LQFP	296-18591-ND◆	27.70	23.55	21.82	TMS470R1B1MPGEA

◆ ***RoHS Compliant***

NEW! TMS570LS Family

RoHS COMPLIANT

The TMS570LS Family integrates the ARM® Cortex™ -R4F Floating Point CPU which offers an efficient 1.6DMIPS/MHz, and has configurations which can run up to 16MHz providing more than 250DMIPs. The TMS570LS series also provides different Flash (1MB or 2MB) and data SRAM (128KB or 160KB) options with single bit error correction and double bit error detection.

Flash	RAM (KB)	FlexRay	ADC	SPI	SCI	CAN	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
											1	25	100	
2MB	160	2-Ch.	2 x 12-Bit	3	2	2	3.3V	140	144-LQPF	296-27256-ND	71.12	63.58	60.34	X5LS20216ASPGEQQ1
2MB	160	2-Ch.	2 x 12-Bit	3	2	2	3.3V	160	337-NFBGA	296-27257-ND	72.27	64.61	61.32	X5LS20216ASZWTQQ1

DSP Starter Kits

A wide variety of DSP boards and development kits are available from TI and TI's third party network. Products include development boards, evaluation modules, hardware/software bundles and DSP Starter Kits (DSKs) designed to accelerate the application design process from concept through production. DSP Starter Kits are bundled with a DSK-version of TI's Code Composer Studio Development Tools. These provide an excellent platform to evaluate TI DSP and development tools, quickly develop prototypes, demos and proof-of-concept applications at a very affordable getting started price.

Kit Contents:
• Development Board • Parallel PC Cable • US Power Supply • CD-ROM containing documentation and DSK version of Code Composer Studio (TMDSEZD2407: EzDSP version of Code Composer Studio)

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-23057-ND	154.72	TMDSADP1420
296-23051-ND	101.24	TMDSADP1460
296-23054-ND	155.76	TMDSDSK33
296-23050-ND	514.01	TMDSDSK5509
296-15827-ND	410.17	TMDSDSK5510
296-15829-ND	410.17	TMDSDSK5416
296-23038-ND	514.01	TMDSDSK6416-T
296-23036-ND	617.85	TMDSDSK6455
296-15831-ND	410.17	TMDSDSK6713
296-23541-ND	61.27	TMDSCNCD2808
296-23543-ND	92.42	TMDSDOCK2808
296-23048-ND	1495.10	TMDSEMUUSB
296-23043-ND	2999.19	TMDSEMU560U
296-15828-ND	358.25	TMDSEZD2407
296-23002-ND	495.02	TMDSEZS2812

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-23055-ND	410.17	TMDSEZD2812
296-23058-ND	1995.13	TMDSEVM642
296-23035-ND	2495.16	TMDSEVM6446
296-23039-ND	2495.16	TMDSEVM6446-0E
296-23049-ND	623.04	TMDSSUBALL
296-23122-ND	1295.06	TMDXDVP648
296-25251-ND ***NEW!***	1001.00	TMDXEVM3517
296-23045-ND	514.01	TMDXEZ28044
296-23046-ND	3602.19	TMDSCCSALL-1
296-23056-ND	514.01	TMDSSUB2000
296-23542-ND	71.65	TMDSCNCD28335
296-23544-ND	102.80	TMDSDOCK28335
296-23855-ND	514.01	TMDSEZ28335
296-24848-ND ***NEW!***	850.70	TMDXOSKL138BET
296-24231-ND	362.40	TMDSENRGYKIT
296-24600-ND ***NEW!***	997.00	TMDSMEVM3530-L

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-24649-ND ***NEW!***	389.40	TMDXMDKDS3254
296-24650-ND ***NEW!***	410.17	TMDXMDKPO8328
296-24651-ND ***NEW!***	466.24	TMDXMDKEK1258
296-27261-ND ***NEW!***	1150.00	TMDXEVM1808L
296-24965-ND ***NEW!***	50.88	TMDX5505EZDSP
296-25752-ND ***NEW!***	82.03	TMDX5515EZDSP
296-25753-ND ***NEW!***	410.17	TMDXEVM5515
296-25247-ND ***NEW!***	383.17	TMDS1MTRPFCKIT
296-25248-ND ***NEW!***	414.32	TMDS2MTRPFCKIT
296-25286-ND ***NEW!***	514.01	TMDSCCS-MCUN01
296-27452-ND ***NEW!***	82.03	TMDXBDKFP5515
296-27528-ND ***NEW!***	393.55	TMDSDCDCLEDKIT
296-27530-ND◆ ***NEW!***	846.70	TMDXEVM1707
296-27531-ND ***NEW!***	82.03	TMDX570LS20SUSB
296-27567-ND◆ ***NEW!***	462.09	TMDXEXP1808L

◆ ***RoHS Compliant***

TEXAS INSTRUMENTS

eXpressDSP™ Code Composer Studio™

CCStudio's comprehensive, integrated development environment brings complete build and debug tooling, world-class compilers and industry unique analysis and visualization capabilities via JTAG Real-Time Data Exchange (RTDX) to quickly find and fix problems. The real-time foundation provided by TI's DSP/BIOS™ kernel, RTDX™ and TI's simulation capabilities, offers key features such as real-time analysis and advanced data and system visualization, which results in the highest level of host/target integration in the DSP industry. In addition, CCStudio is engineered around an open plug-in architecture that enables developers to integrate additional third-party plug-in tools to customize their development environment for specific project requirements. **Includes:** • C/C++ compiler, assembler and linker (code generation tools) with C++, UML, MATLAB and VAB support in compiler **CCStudio Key Features:** • Integrated development environment with tightly integrated editor, debugger, visual project management system, profiler and Probe Points™ • Advanced watch windows, local and global variable windows and profiler capabilities • Update Advisor - live update capability for the latest tools, drivers and software releases • Real-Time Data Exchange (RTDX) between host and target • Real-time analysis and data visualization tools • File I/O Probe Points and graphical algorithm scope probes • Interactive profiling and advanced graphical signal analysis • GEL function support for automation activities such as regression testing • Automated testing and customization via scripting • Multi-processor debugging **Minimum System Requirements:** • 233MHz or higher Pentium compatible CPU • 600MB of free hard disk space • 64MB of RAM • SVGA (800 x 600) display • Internet Explorer (4.0 or later) or Netscape Navigator (4.7 or later) • Local CD-ROM drive **Supported Operating Systems for Code Composer Studio:** • Microsoft Windows 98 (SP1 and SE) • Microsoft Windows NT (SP6) • Microsoft Windows 2000 (SP1 and SP2) • Microsoft Windows XP

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
C6000 Code Composer Studio Software for 320C6X	296-16633-ND	3181.58	TMDSCCS6000-1
C2000 Code Composer Studio Software for 320C2X	296-16632-ND	514.01	TMDSCCS2000-1

5-6K Interface Evaluation Module

The interface board consists of two signal conditioning sites, two serial EVM sites and a parallel EVM site. Three position screw terminals J1 and J2 and two position screw terminals J6, J8, J9 and J11 provides access to a common power bus routed to all sites. The 5-6K Interface board is intended to provide Data Converter customers with the greatest amount of flexibility for the evaluation of Data Acquisition Products from Texas Instruments. It maintains a compatible interface with the TMS320 Series (DSP). **Features:** • Provides all necessary voltages for device under test • Bit clock for codecs • Flexible interface to popular TI DSP's • General codec requirements are addressed

296-18350-ND **$50.00**

SPECTRUM DIGITAL INCORPORATED

Emulator Kits

RoHS COMPLIANT

Starter Kit for TMS320C6416 DSP

Hardware Features: • Texas Instruments TMS320C6416 DSP operating at 1GHz • TLV320AIC23 codec • 2M x 64 on board SDRAM • 512K bytes of on board Flash ROM **Software Features:** • TMS320C6416 specific Code Composer Studio from Texas Instruments • Test/sample code provided to reduce coding time **Includes:** • TMS320C6416 (1GHz) DSK Board • Code Composer Studio for C6416 DSK • USB Cable • AC Power Cord(s) and Power Supply • Quick Start Guide • Technical Reference (includes schematics) • Customer Support Guide

701891-ND **$579.38**

Starter Kit for TMS320C6713

Hardware Features: • Texas Instruments TMS320C6713 DSP operating at 225MHz • TLV320AIC codec • 2M x 32 on board SDRAM • 512K bytes of on board Flash ROM **Software Features:** • TMS320C6713 DSK specific Code Composer Studio from Texas Instruments • Test/sample code provided to reduce coding time **Includes:** • TMS320C6713 DSK Board • Code Composer Studio for C6713 DSK • USB Cable • AC Power Cord(s) and Power Supply • Quick Start Guide • Technical Reference (includes schematics) • Customer Support Guide

701895-ND **$466.88**

Emulator XDS510 USB JTAG 14 pin

Hardware Features: • Supports Texas Instruments Digital Signal Processors and Microcontrollers with JTAG interface **Includes:** • XDS510 USB JTAG Emulator • USB Cable • CD-ROM with drivers

701900-ND **$989.00**

Emulator C2000 Series XDS510LC JTAG

Hardware Features: • Supports Texas Instruments C2000 Digital Signal Processors with JTAG interface **Includes:** • C2000 Series XDS510LC JTAG Emulator • USB cable • CD-ROM with drivers

701902-ND **$280.13**

Emulator XDS510 USB JTAG with 14 pin Target Adapter Cable

Hardware Features: • USB bus powered • Supports Texas Instruments Digital Signal Processors and Microcontrollers with JTAG interface: F24xx, F28xx, C54xx, C55xx, C67xx, C672x, C62xx, C641x, C642x, C645x, DM64x, DaVinci™, DM355, TMS470, TMS570, OMAP™ **Includes:** • XDS510 USB Plus JTAG Emulator • 14-pin Target Adapter Cable • USB Cable • CD-ROM with drivers

701905-ND **$1495.00**

Emulator XDS510 USB Galvanic JTAG

Hardware Features: • Supports Texas Instruments Digital Signal Processors and Microcontrollers with JTAG interface: F24xx, F28xx, C54xx, C55xx, C67xx, C672x, C62xx, C641x, C642x, C645x, DM64x, DaVinci™, DM355, TMS470, TMS570, OMAP™ • USB Bus powered **Includes:** • XDS510 USB Galvanic JTAG Emulator • USB Cable • CD-ROM with drivers

701910-ND **$1995.00**

TMS320DM355 Digital Video Evaluation Module

Hardware Features: • Texas Instruments TMS320DM355 Processor operating at 216MHz • One Video input port, supports composite or S Video • One Composite Video DAC output • 128 Mbytes DDR2 DRAM • Two Gbytes NAND Flash • Two SD/MMC card interfaces or One SD/MMC and CE-ATA disk drive interface • AIC33 Stereo Codec **Software Features:** • Compatible with Code Composer Studio™ **Software Included in Kit:** • MontaVista Pro Demonstration Tools • TI eXpressDSP™ Linux Based DVSDK **Includes:** • TMS320DM355 EVM • 5V Power Supply with Line Cords • RS-232 Cable • Ethernet Cable • Universal IR Remote Control • DVEVM Setup Guide • Technical Reference • DVEVM Getting Started Guide

702065-ND **$579.38**

DM6437 Digital Video Development Platform

Hardware Features: • Texas Instruments TMS320DM6437 DSP operating up to 600MHz • One TVP5146M2 Video Decoder • Four video DAC outputs • 128 Mbytes of DDR2 DRAM • 16 Mbytes of Flash memory, 64 Mbytes NAND Flash, 2 Mbytes SDRAM • AIC33 stereo codec • I^{2}C interface • 10/100 Ethernet Interface **Software Features:** • Compatible with Code Composer Studio 3.3 **Software Included in Kit:** • Board Specific version of Code Composer Studio • Codec Engine • Codec evaluation including: H.264, MPEG-4, G.711 • Network Developer's Kit (NDK) Evaluation (Real-time TCP/IP stack) • PC-based demo video application and sample Audio/Video Files • SoC Analyzer for system-level tuning and optimization • Video, Imaging, Audio, and Speech Codecs **Includes:** • TMS320DM6437 EVM Board • 5V Power Supply with Line Cords • Technical Reference manual • USB Cable • Ethernet Cable • Board Software • Board Support Library

702075-ND **$579.38**

XDS560R USB JTAG Emulator with 20-pin CTI JTAG Header

Hardware Features: • Supports Texas Instruments Digital Signal Processors and Microcontrollers with JTAG interface: F24xx, F28xx, C54xx, C55xx, C67xx, C672x, C62xx, C641x, C642x, C645x, DM64x, DaVinci™, DM355, TMS470, TMS570, OMAP™ **Includes:** • XDS560R USB JTAG Emulator with 20-pin CTI JTAG Header • USB Cable • CD-ROM with drivers

702560-ND **$2498.99**

XDS560R USB JTAG Emulator with 14-pin JTAG Header

Hardware Features: • Supports Texas Instruments Digital Signal Processors and Microcontrollers with JTAG interface: F24xx, F28xx, C54xx, C55xx, C67xx, C672x, C62xx, C641x, C642x, C645x, DM64x, DaVinci™, DM355, TMS470, TMS570, OMAP™ **Includes:** • XDS560R USB JTAG Emulator with 14-pin JTAG Header • USB Cable • CD-ROM with drivers • Power Supply

702562-ND **$2498.99**

eZdsp™ F2812 for TMS320F2812 DSP

Hardware Features: • TMS320F2812 Digital Signal Processor in socket operating at 150MHz • 18K on chip RAM • 128K on chip Flash ROM • Compatible with eZdsp Wire Wrap Prototype Card **Software Features:** • Compatible with C2000 Code Composer from Texas Instruments • Compatible with SDFlash programming utility from Spectrum Digital **Includes:** • eZdsp F2812 with DSP in socket • Power Supply • Parallel port cable • CD-ROM with eZdsp specific Code Composer for C2xxx • CD-ROM with sample code, manual and schematics

761129-ND **$527.63**

eZdsp™ F2808 for TMS320F2808 DSP

Hardware Features: • TMS320F2808 Digital Signal Controller in socket, operating at 100MHz • 64K words on chip Flash ROM • 256K bits serial I^{2}C EEPROM memory • Compatible with eZdsp Wire Wrap Prototype Card **Software Features:** • Compatible with C2000 Code Composer from Texas Instruments • Compatible with SDFlash programming utility from Spectrum Digital **Includes:** • eZdsp F2808 • Power Supply • USB Cable • CD-ROM with eZdsp specific Code Composer for C2xxx • CD-ROM with sample code, manual and schematics

761132-ND **$527.63**

eZdsp™ F28335 Board

Hardware Features: • TMS320F28335 Digital Signal Controller in socket, operating at 150MHz • On chip 32-bit floating point unit • 68K bytes on-chip RAM • 512K bytes on-chip Flash Memory **Software Features:** • eZdsp F28335 Code Composer Studio DSK Tools • Compatible with SDFlash programming utility from Spectrum Digital **Includes:** • eZdsp F28335 Board • eZdsp F28335 Code Composer Studio DSK tools • USB Cable • Quick Start Guide • Technical Reference Manual • 5V Power Supply with 3 line cords

761135-ND **$579.38**

NEW! Emulator XDS100 USB JTAG

Hardware Features: • Supports Texas Instruments Processors and Microcontrollers with JTAG interface: F281x, F280x, F280xx, F2833x, C550x, C674X **Software Features:** • Compatible with Code Compressor Studio IDE™ • Supports Code Compressor Studio™ C2000 On-Chip flash Programmer • Compatible with Windows 2000, XP, and Vista **Included:** • XDS100 USB JTAG Emulator • USB cable • Quick Start Guide

702300-ND **$83.94**

8032 Microcontroller Core Flash Programmable System Devices

uPSD is a family of 8-bit microcontrollers built on an 8032 microcontroller core. uPSD features a flexible memory structure, programmable logic, and rich peripheral set that includes devices with USB and JTAG debug/emulation. These, along with analog and supervisor functions, makes uPSD an ideal solution for a wide variety of embedded control applications.

Flash Size (Kbit)	Main Flash (Bytes)	SRAM (Bytes)	Device Speed (MHz)	No. of I/O Pins	Operating Timer/ Counters	Supply Voltage	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
1K	128K	8K	40	37	3	5.0	52-TQFP	497-2367-ND	13.23	12.03	10.23	UPSD3233B-40T6
32K	64K	4K	40	3 x 8 Bit	3	3	52-TQFP	497-5657-ND	7.16	6.45	5.31	UPSD3422EVB40T6
	128K	8K	40	3 x 8 Bit	3	3	52-TQFP	497-5661-ND	10.40	9.37	7.70	UPSD3433EVB40T6
64K	32K	4K	40	35	3	3.3	52-TQFP	497-4904-ND	11.64	10.48	8.62	UPSD3422EV-40T6
	32K	4K	40	46	3	3.3	80-TQFP	497-4903-ND	10.07	9.07	7.46	UPSD3422E-40U6
	32K	4K	40	46	3	3.3	80-TQFP	497-4905-ND	9.37	8.52	7.24	UPSD3422EV-40U6
128K	32K	8K	40	46	3	3.3	80-TQFP	497-4893-ND	11.04	10.04	8.53	UPSD3333D-40U6
	32K	8K	40	35	3	3.3	52-TQFP	497-4908-ND	10.40	9.37	7.70	UPSD3433EV-40T6
256K	32K	8K	40	46	3	3.3	80-TQFP	497-4896-ND	11.66	10.61	9.02	UPSD3334D-40U6
	32K	32K	40	37	3	3.3	52-TQFP	497-4898-ND	13.71	12.47	10.60	UPSD3354D-40T6

DK3400 Development Kit

To enhance the feature set of uPSD Turbo Family, the USB Microcontroller Development Kit DK3400 has been released from STMicroelectronics. The kit is a demo board for the uPSD3400 family which is a series of 8051 class microcontrollers (MCUs) that contain a fast Turbo Plus 8032 core with 16-bit code fetch path, full-speed USB port, a large Dual Bank Flash memory, a large SRAM, many peripherals, programmable logic and a JTAG Debug/In System Programming (ISP) port.

The DK3400 kit consists of an ED3K4 module and DK3400 motherboard as well as all the items needed to explore the uPSD3400 MCU. There are also demonstration application examples along with an evaluation copy of the tools needed to develop and compile code for the uPSD3400.

497-5218-ND (DK3400).. **$259.00**

Microcontrollers

For the mass market ST offers several families of microcontrollers, e.g. the ST6, ST7, STM8S20, ST9 and the ST10 ranges, with the result that there is a ST microcontroller to suit every kind of application, from those where minimum cost is the primary requirement to those that need powerful real-time performance and high-level language support. ST also offers the innovative Programmable System Memory (FlashPSD, DSM) products, which combine memory functions such as Flash, EEPROM and SRAM with programmable logic on a single chip. Designed to interface with all standard microcontrollers to provide a complete system implementation, Programmable System Memories can be quickly and easily programmed without special manufacturing equipment, even in the field.

ST6 8-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
1K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	16-DIP	497-2093-5-ND◆	2.93	2.65	2.13	ST62T00CB6
1K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 125°C	16-SOP	497-8232-ND◆	2.90	2.72	2.18	ST62T03CM3
1K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 125°C	16-SOP	497-8233-ND◆	2.30	2.08	1.67	ST62T03CM6
2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	16-DIP	497-2094-5-ND◆	3.10	2.77	2.27	ST62T01CB6
2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	16-SOIC	497-2095-5-ND	3.26	2.92	2.39	ST62T01CM6
2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 125°C	16-SOP	497-8246-ND◆	3.35	3.00	2.46	ST62T01CM3
2K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	20-DIP	497-2096-5-ND◆	4.21	3.76	3.09	ST62T10CB6
3K / OTP	128	Yes	21	13-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	28-SOIC	497-2103-5-ND◆	6.46	5.82	4.79	ST62T65CM6
3K / OTP	128	Yes	13	7-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	20-SOIC	497-2102-5-ND◆	6.87	6.13	5.03	ST62T60CM6
4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	20-DIP	497-2098-5-ND◆	5.38	4.80	3.94	ST62T20CB6
4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	20-SOIC	497-2099-5-ND◆	5.38	4.80	3.94	ST62T20CM6
4K / OTP	64	Yes	20	16-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	28-DIP	497-2100-5-ND◆	5.85	5.23	4.29	ST62T25CB6
Supervisor with Watchdog Timer and Push-Button Reset							SOT23-5	497-8385-1-ND◆†	2.17	1.86	1.52	STM6822YWY6F
							SOT23-5	497-8385-2-ND◆‡	2511.00/3,000			STM6822YWY6F

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

ST7 8-Bit

Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
1K	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4860-ND◆	2.33	2.10	1.69	ST7FLITES2Y0B6
	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4862-ND◆	2.42	2.19	1.76	ST7FLITES5Y0B6
	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-4863-ND◆	2.42	2.19	1.76	ST7FLITES5Y0M6
	128	Yes	5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DIP	497-5636-5-ND◆	1.51	1.37	1.10	ST7FLITEUS5B6
	128	Yes	5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DFN	497-5638-1-ND◆†	1.57	1.35	1.10	ST7FLITEUS5U6/TR
	128	Yes	5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DFN	497-5638-2-ND◆‡	2229.00/3,000			ST7FLITEUS5U6/TR
1.5K	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4852-ND◆	2.57	2.33	1.87	ST7FLITE02Y0B6
	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-9030-5-ND◆ ***NEW!***	2.80	2.50	2.05	ST7FLITE05Y0M6
	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-5632-5-ND◆	3.25	2.91	2.39	ST7FLITE09Y0B6
	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-5633-5-ND◆	3.25	2.91	2.39	ST7FLITE09Y0M6
2K	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	20-Dip	497-5626-5-ND◆	3.81	3.40	2.79	ST7FLIT19BF1B6
	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	20-SOIC	497-5627-5-ND◆	3.81	3.40	2.79	ST7FLIT19BF1M6
4K	256	Yes	22	6-Ch., 8-Bit	3.2 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-8234-5-ND◆	6.61	5.90	4.84	ST72C104G1M6
	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-4840-ND◆	5.21	4.65	3.82	ST72F260G1M6
	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-5581-5-ND◆	4.68	4.18	3.43	ST72F262G1M6
	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-2105-5-ND	6.44	5.75	4.72	ST72F264G1M6
	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-8245-5-ND◆	3.16	2.83	2.32	ST7FLIT15BY1M6
	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	16-DIP	497-5629-5-ND◆	3.50	3.13	2.57	ST7FLIT19BY1B6
	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	16-SOIC	497-5630-5-ND◆	2.86	2.56	2.10	ST7FLIT19BY1M6

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Microcontrollers

ST7 8-Bit *(Cont.)*

Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
4K	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-4855-ND◆	4.06	3.63	2.98	ST7FLITE15F1M6
	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2133-5-ND	4.37	3.90	3.20	ST7FLITE19F1M6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5609-5-ND◆	3.81	3.40	2.79	ST72F32AK1B6
	384	Yes	19	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5620-5-ND◆	2.64	2.38	1.92	ST72F60E1M1
	384	Yes	19	—	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5622-1-ND◆†	2.68	2.31	1.88	ST72F60K1U1TR
	384	Yes	19	—	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5622-2-ND◆‡	3327.00/3,000			ST72F60K1U1TR
8K	256	Yes	22	6-Ch., 8-Bit	3.2 ~ 5.5	-40°C ~ 125°C	28-SOIC	497-8235-5-ND◆	9.98	9.60	7.30	ST72C254G2M3
	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-4841-ND	5.29	4.73	3.88	ST72F262G2M6
	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	32-DIP	497-5570-ND◆	6.06	5.42	4.45	ST72F264G2B6
	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-2106-5-ND◆	6.06	5.42	4.45	ST72F264G2M6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5610-ND◆	3.81	3.40	2.79	ST72F32AK2T6
	384	Yes	19	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5621-5-ND◆	3.04	2.75	2.21	ST72F60E2M1
	384	Yes	27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5624-5-ND◆	3.61	3.23	2.65	ST72F63BE2M1
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5588-ND◆	4.56	4.08	3.35	ST72F324BJ2T6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5591-5-ND◆	4.31	3.85	3.16	ST72F324BK2B6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-8240-ND◆	4.70	4.20	3.45	ST72F324BK2T3
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5592-ND◆	4.06	3.63	2.98	ST72F324BK2T6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4847-ND◆	5.01	4.47	3.67	ST72F324J2T6
	384	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4850-ND◆	5.46	4.88	4.00	ST72F324K2T6
	384	Yes	32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	44-LQFP	497-8242-ND◆	4.42	3.95	3.24	ST72F324LJ2T5
	384	Yes	32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	32-LQFP	497-5598-ND◆	6.16	5.50	4.51	ST72F324LK2T6
	384	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-2113-5-ND◆	5.61	5.01	4.11	ST72F622L2M1
	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2131-5-ND◆	5.46	4.88	4.00	ST7FDALIF2M6
	384	Yes	15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-4856-ND◆	4.31	3.85	3.16	ST7FLITE20F2B6
	384	Yes	15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-4858-ND◆	4.48	4.00	3.28	ST7FLITE25F2B6
	384	Yes	15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-4859-ND◆	4.48	4.00	3.28	ST7FLITE25F2M6
	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2135-5-ND	4.82	4.30	3.53	ST7FLITE29F2M6
	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-2134-5-ND◆	5.40	4.82	3.96	ST7FLITE29F2B6
16K	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5593-5-ND◆	4.79	4.28	3.51	ST72F324BK4B6
	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-8241-ND◆	5.26	4.70	3.86	ST72F324BK4T3
	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5594-ND◆	4.56	4.08	3.35	ST72F324BK4T6
	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-10°C ~ 85°C	42-DIP	497-4848-ND◆	6.75	6.03	4.95	ST72F324J4B5
	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4849-ND◆	6.61	5.90	4.84	ST72F324J4T6
	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4851-ND◆	6.44	5.75	4.72	ST72F324K4T6
	512	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5601-ND◆	5.57	4.98	4.08	ST72F325J4T6
	512	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5605-ND◆	5.32	4.75	3.90	ST72F325K4T6
	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	44-TQFP	497-2111-ND◆	9.25	8.33	6.85	ST72F621J4T1
	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	42-DIP	497-2110-5-ND	9.25	8.33	6.85	ST72F621J4B1
	768	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-2112-5-ND◆	7.53	6.78	5.57	ST72F621L4M1
	768	Yes	35	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5639-5-ND◆	8.15	7.34	6.04	ST7FSCR1E4M1
	768	Yes	35	—	4.0 ~ 5.5	0°C ~ 70°C	64-TQFP	497-5640-ND◆	9.08	8.17	6.72	ST7FSCR1R4T1
	768	Yes	60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	44-LQFP	497-4870-ND◆ ***NEW!***	6.83	6.15	5.06	ST7FMC2S4T6
	1K	Yes	34	12-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	32-LQFP	497-5611-ND◆	4.41	3.94	3.24	ST72F344K4T6
32K	1K	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	42-DIP	497-2107-5-ND	6.60	5.94	4.89	ST72F324J6B6
	1K	Yes	32	8-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-LQFP	497-2109-ND◆	6.26	5.64	4.64	ST72F324K6T6
	1K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5618-ND◆	7.03	6.33	5.20	ST72F561K6T6
	1024	Yes	27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5623-1-ND◆†	6.84	6.16	5.02	ST72F63BD6U1TR
	1024	Yes	27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5623-2-ND◆‡	9096.00/3,000			ST72F63BD6U1TR
	1024	Yes	19	16/11-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	32-SDIP	497-5873-ND◆	6.68	6.02	4.95	ST72F63BK6B1
	1024	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-8238-ND◆	5.32	4.75	3.90	ST72F321BK6T6
	1024	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	64-TQFP	497-4845-ND◆	9.13	8.22	6.76	ST72F321R6T6
	1024	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	42-SDIP	497-5589-5-ND◆	5.74	5.13	4.21	ST72F324BJ6B6
	1024	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5590-ND◆	5.57	4.98	4.08	ST72F324BJ6T6
	1024	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5595-5-ND◆	5.32	4.75	3.90	ST72F324BK6B6
	1024	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5596-ND◆	5.07	4.53	3.72	ST72F324BK6T6
	1024	Yes	32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	32-LQFP	497-5599-ND◆	6.50	5.85	4.81	ST72F324LK6T6
	1024	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	42-SDIP	497-5602-5-ND◆	6.36	5.68	4.66	ST72F325J6B6
	1024	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5606-ND◆	5.57	4.98	4.08	ST72F325K6T6
	1.5K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5612-ND◆	6.90	6.21	5.11	ST72F361AR6T6
	1.5K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5613-ND◆	6.61	5.90	4.84	ST72F361J6T6
	1.5K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5614-ND◆	5.99	5.35	4.39	ST72F361K6T6
48K	1536	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-TQFP	497-8236-ND◆	7.48	6.73	5.54	ST72F321AR7T6
	1536	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-8239-ND◆	5.92	5.29	4.34	ST72F321BR7T6
	1536	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-8243-ND◆	6.86	6.13	5.03	ST72F325J7T6
60K	2K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5615-ND◆	6.35	5.72	4.70	ST72F361K9T6
	2K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5616-ND◆	11.28	10.15	8.35	ST72F561AR9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5583-ND◆	7.25	6.53	5.37	ST72F321BAR9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5585-ND◆	6.76	6.09	5.01	ST72F321BJ9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5586-ND◆	7.80	7.02	5.78	ST72F321BR9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4844-ND◆	9.19	8.28	6.81	ST72F321J9T6
	2048	Yes	64	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	80-LQFP	497-5587-ND◆	8.43	7.59	6.24	ST72F321M9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-TQFP	497-5600-ND◆	7.48	6.73	5.54	ST72F325AR9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5604-ND◆	6.35	5.72	4.70	ST72F325J9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-TQFP	497-5607-ND◆	7.70	6.93	5.70	ST72F325R9T6
	2048	Yes	64	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	80-TQFP	497-8244-ND◆	11.73	10.56	8.68	ST72F521M9T6

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Microcontrollers *(Cont.)*

STM8 8-Bit

Internal ROM Type	Internal ROM Size	Internal RAM Size	Connectivity	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
								1	10	100	
Flash	8K	1K	I^{2}C, IrDA, LIN, SPI, UART/USART	28	32-LQFP	-40°C ~ 85°C	497-8944-ND ***NEW!***	2.26	2.05	1.65	STM8S903K3T6C
	8K	1K	I^{2}C, IrDA, LIN, SPI, UART/USART	28	32-LQFP	-40°C ~ 85°C	497-8945-ND ***NEW!***	2.26	2.05	1.65	STM8S103K3T6C
	8K	1.5K	I^{2}C, SPI, UART/USART	30	32-LQFP	-40°C ~ 85°C	497-10036-ND ***NEW!***	2.95	2.66	2.14	STM8L101K3T6
	16K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	25	32-LQFP	-40°C ~ 85°C	497-8947-ND ***NEW!***	2.88	2.61	2.10	STM8S105K4T6C
	16K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 85°C	497-8819-ND ***NEW!***	2.83	2.53	2.08	STM8S105S4T6C
	16K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8818-ND ***NEW!***	2.83	2.53	2.08	STM8S105C4T6
	16K	2K	I^{2}C, SPI, USART	29	32-LQFP	-40°C ~ 85°C	497-10511-ND ***NEW!***	2.98	2.69	2.16	STM8L152K4T6
	16K	2K	I^{2}C, SPI, USART	30	32-LQFP	-40°C ~ 85°C	497-10515-ND ***NEW!***	2.64	2.38	1.92	STM8L151K4T6
	16K	2K	I^{2}C, SPI, USART	41	48-LQFP	-40°C ~ 85°C	497-10513-ND ***NEW!***	2.97	2.65	2.18	STM8L152C4T6
	16K	2K	I^{2}C, SPI, USART	41	48-LQFP	-40°C ~ 85°C	497-10517-ND ***NEW!***	2.98	2.69	2.16	STM8L151C4T6
	32K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	25	32-VFQFPN	-40°C ~ 85°C	497-10123-ND ***NEW!***	2.83	2.53	2.08	STM8S105K6U6
	32K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	25	32-LQFP	-40°C ~ 85°C	497-8948-ND ***NEW!***	2.83	2.53	2.08	STM8S105K6T6C
	32K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8946-ND ***NEW!***	3.14	2.80	2.30	STM8S105C6T6
	32K	2K	I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 85°C	497-8949-ND ***NEW!***	3.14	2.80	2.30	STM8S105S6T6C
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	25	32-LQFP	-40°C ~ 85°C	497-8510-ND	3.42	3.05	2.51	STM8S207K6T6C
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	25	32-LQFP	-40°C ~ 125°C	497-8940-ND ***NEW!***	3.92	3.50	2.87	STM8S207K6T3C
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 85°C	497-8955-ND ***NEW!***	3.64	3.25	2.67	STM8S207S6T6C
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 125°C	497-10122-ND ***NEW!***	4.20	3.75	3.08	STM8S207S6T3C
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8950-ND ***NEW!***	3.64	3.25	2.67	STM8S207C6T6
	32K	2K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	52	64-LQFP	-40°C ~ 85°C	497-8953-ND ***NEW!***	3.95	3.53	2.90	STM8S207R6T6
	32K	2K	I^{2}C, SPI, USART	29	32-LQFP	-40°C ~ 85°C	497-10510-ND ***NEW!***	3.00	2.68	2.20	STM8L152K6T6
	32K	2K	I^{2}C, SPI, USART	30	32-LQFP	-40°C ~ 85°C	497-10514-ND ***NEW!***	2.91	2.64	2.12	STM8L151K6T6
	32K	2K	I^{2}C, SPI, USART	41	48-LQFP	-40°C ~ 85°C	497-10512-ND ***NEW!***	3.22	2.88	2.36	STM8L152C6T6
	32K	2K	I^{2}C, SPI, USART	41	48-LQFP	-40°C ~ 85°C	497-10516-ND ***NEW!***	2.86	2.55	2.10	STM8L151C6T6
	64K	4K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 85°C	497-8956-ND ***NEW!***	3.95	3.53	2.90	STM8S207S8T6C
	64K	4K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8951-ND ***NEW!***	3.95	3.53	2.90	STM8S207C8T6
	64K	4K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	52	64-LQFP	-40°C ~ 85°C	497-8954-ND ***NEW!***	4.20	3.75	3.08	STM8S207R8T6
	64K	4K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	52	64-LQFP	-40°C ~ 125°C	497-8941-ND ***NEW!***	4.84	4.33	3.55	STM8S207R8T3
	128K	4K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	34	44-LQFP	-40°C ~ 85°C	497-8942-ND ***NEW!***	4.09	3.65	3.00	STM8S207SBT6C
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8509-ND	4.56	4.08	3.35	STM8S207CBT6
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	38	48-LQFP	-40°C ~ 85°C	497-8943-ND ***NEW!***	4.45	3.98	3.26	STM8S208CBT6
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	52	64-LQFP	-40°C ~ 85°C	497-8508-ND	5.01	4.48	3.67	STM8S207RBT6
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	52	64-LQFP	-40°C ~ 85°C	497-8957-ND ***NEW!***	5.46	4.88	4.00	STM8S208RBT6
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	68	80-LQFP	-40°C ~ 85°C	497-8952-ND ***NEW!***	5.46	4.88	4.00	STM8S207MBT6B
	128K	6K	CAN, I^{2}C, IrDA, LIN, SPI, UART/USART	68	80-LQFP	-40°C ~ 85°C	497-8507-ND	5.91	5.28	4.33	STM8S208MBT6B

ST9 8-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
128K	4K	Yes	80	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 105°C	100-TQFP	497-4883-ND	15.20	13.82	11.75	ST92F150CV1TB

ST10 16-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
Romless	1K	Yes	77	—	3.3	-40°C ~ 85°C	100-TQFP	497-2044-ND	9.90	8.91	7.33	ST10R172LT6
Romless	1K	Yes	77	—	3.3	-40°C ~ 85°C	100-TQFP	497-2045-ND	9.38	8.44	6.94	ST10R272LT6
Romless	2K	Yes	111	16-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-2043-ND◆	24.21	22.40	19.07	ST10R167-Q3
256K	12K	Yes	111	16-Ch., 10-Bit	5.0	-40°C ~ 85°C	144-PQFP	497-4833-ND◆	35.00	32.38	27.57	ST10F269Z2Q6
256K	20K	Yes	111	24-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-5579-ND◆	19.17	17.74	15.10	ST10F272Z2Q3
832K	68K	Yes	111	24-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-5580-ND◆	37.16	34.65	30.14	ST10F276Z5Q3

◆ ***RoHS Compliant***

32-Bit ARM Microcontrollers

The STR7 is a range of innovative 32 bit microcontrollers built on the industry standard ARM7 RISC core. The STR7 devices include high quality embedded Flash and feature powerful peripheral functions including USB and CAN. They are ideal for embedded applications requiring a compact yet powerful MCU and a versatile scalable solution. STR7 are used in various applications like user interfaces, factory automation systems, point of sale, appliances and many others. Built on the leading ARM™ architecture, STR7 allows fast response to emerging requirements, enabling the rapid implementation of changes at low cost. The flexibility of the family, with its rich options for Flash, RAM, the largest peripherals set and its versatile package options helps you reuse it for a whole range of products, optimizing your developments. It helps you build cost effective and powerful solutions that bring innovation in your market. ARM core with embedded Flash and RAM.

The STR71xF series is a family of ARM powered 16/32-bit Microcontrollers with embedded Flash and RAM. It contains the high performance ARM7TDMI™ CPU with an extensive range of peripheral functions and enhanced I/O capabilities. All devices have on-chip high speed single voltage FLASH memory and high speed RAM. The STR71xF family has an embedded ARM core and is therefore compatible with all ARM tools and software. For more information on the ARM Realview Developer Kit for ST and third party development tools, please refer to the www.st.com/mcu

STR730F Flash microcontrollers from STMicroelectronics combine the industry standard ARM7TDMI RISC microprocessor with embedded Flash and powerful peripheral functions, including up to 20 timers, 4xUARTs and 3xCANs. They are ideal for embedded applications requiring a compact yet powerful MCU, as well as versatile, scalable solutions such as user interfaces, factory automation systems and appliances. Additionally, the STR730F family features a single 5V power supply particularly suited to industrial applications.

Features: • High-performance industry standard core ARM7TDMI RISC 32-bit CPU • Extensive software and tools including the complete STR7 library supporting all standard peripherals and the CAN • Largest choice of peripherals and interfaces including 4xUARTs, up to 20 timers and up to 3xCANs • Flexible power and clock management, five low-power modes, low-power voltage regulator, dual APB buses architecture, multiple clock sources • Single 5V power supply • High-quality embedded Flash (data retention 20 years at 85°C) • 16 x channels DMA • Rich package options including the tiny proven 10x10 LFBGA144 • Temperature range: -40°C ~ 85°C and -40°C ~ 105°C

Benefits: • Future-proof microcontrollers that easily adapt to customer requirements • Dramatically reduces development time and increases ease-of-use • Reduces system cost with all peripherals in one chip • Gives you full control over your power consumption and performance/power trade-offs • Native supply of industrial applications, no 3.3V conversion needed • Suitable for long-life equipment • Lower CPU load, optimized access to memory • Optimizes your developments: the same device in different options will fit all your product range • Increase domain of validity for the application to +105°C

Internal ROM Type	Internal ROM Size	Internal RAM Size	USB	CAN	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
Flash	128K	32K	Yes	Yes	48	144-TQFP	-40°C ~ 85°C	497-4510-ND	15.95	14.50	12.33	STR710FZ1T6
	256K	64K	Yes	Yes	48	144-LFBGA	-40°C ~ 85°C	497-5642-ND	17.71	16.10	13.69	STR710FZ2H6
	256K	64K	Yes	Yes	48	144-TQFP	-40°C ~ 85°C	497-4511-ND	17.71	16.10	13.69	STR710FZ2T6
	64K	16K	Yes	No	30	64-LQFP	-40°C ~ 85°C	497-4885-ND	11.13	10.02	8.24	STR711FR0T6
	256K	64K	Yes	No	30	64-LFBGA	-40°C ~ 85°C	497-5643-ND	12.80	11.64	9.90	STR711FR2H6
	256K	64K	Yes	No	30	64-LQFP	-40°C ~ 85°C	497-4513-ND	14.41	13.10	11.14	STR711FR2T6
	256K	64K	No	Yes	32	64-LQFP	-40°C ~ 85°C	497-4515-ND	12.98	11.80	10.03	STR712FR2T6
	64K	16K	No	No	32	64-LQFP	-40°C ~ 85°C	497-4888-ND	9.75	8.78	7.22	STR715FR0T6
	256K	16K	Yes	Yes	112	144-LQFP	-40°C ~ 105°C	497-5645-ND	17.38	15.80	13.43	STR730FZ2T6

(Continued)

32-Bit ARM Microcontrollers *(Cont.)*

Internal ROM Type	Internal ROM Size	Internal RAM Size	USB	CAN	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
Flash	128K	16K	Yes	Yes	112	144-TQFP	-40°C ~ 105°C	497-5139-ND	19.21	17.46	14.85	STR730FZ1T7
	128K	16K	Yes	Yes	72	100-TQFP	-40°C ~ 105°C	497-5141-ND	19.11	17.46	14.96	STR731FV1T7
	256K	16K	Yes	Yes	72	100-TQFP	-40°C ~ 105°C	497-5142-ND	20.57	18.70	15.90	STR731FV2T7
	256K	16K	Yes	No	112	144-LQFP	-40°C ~ 105°C	497-5647-ND	14.48	13.16	11.19	STR735FZ2T6
	256K	16K	Yes	No	112	144-TQFP	-40°C ~ 105°C	497-5144-ND	18.11	16.46	14.00	STR735FZ2T7
	256K	16K	Yes	No	72	100-TQFP	-40°C ~ 105°C	497-5648-ND	13.71	12.46	10.60	STR736FV2T6
	256K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 105°C	497-5650-ND	12.39	11.16	9.17	STR750FV2T6
	64K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 85°C	497-5749-ND	9.83	8.85	7.28	STR750FV0T6
	128K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 85°C	497-5750-ND	10.65	9.59	7.88	STR750FV1T6
	256K	16K	No	Yes	38	64-LQFP	-40°C ~ 105°C	497-5653-ND	11.99	10.79	8.87	STR752FR2T6
	256K	16K	No	No	38	64-LQFP	-40°C ~ 105°C	497-5654-ND	11.34	10.21	8.39	STR755FR2T6
	64K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5757-ND	9.30	8.38	6.89	STR755FV0T6
	128K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5758-ND	10.12	9.11	7.49	STR755FV1T6
	256K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5759-ND	11.74	10.57	8.69	STR755FV2T6
	256K	64K	No	Yes	40	80-LQFP	-40°C ~ 80°C	497-6275-ND	11.41	10.38	8.82	STR910FAM32X6
	256K	64K	No	Yes	80	128-LQFP	-40°C ~ 80°C	497-6276-ND	12.13	11.03	9.38	STR910FAW32X6
	256K	64K	No	Yes	80	144-LFBGA	-40°C ~ 80°C	497-6277-ND	12.69	11.54	9.81	STR910FAZ32H6
	256K	96K	Yes	Yes	40	80-LQFP	-40°C ~ 80°C	497-6278-ND	12.27	11.16	9.49	STR911FAM42X6
	512K	96K	Yes	Yes	40	80-LQFP	-40°C ~ 80°C	497-6279-ND	13.70	12.46	10.59	STR911FAM44X6
	256K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6280-ND	12.70	11.55	9.82	STR911FAW42X6
	512K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6281-ND	14.41	13.11	11.14	STR911FAW44X6
	256K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6283-ND	13.41	12.20	10.37	STR912FAW42X6
	1024K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 85°C	497-9038-ND ***NEW!***	18.70	17.00	14.45	STR912FAW46X6
	2048K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 85°C	497-9039-ND ***NEW!***	20.12	18.62	15.85	STR912FAW47X6
	256K	96K	Yes	Yes	80	144-LFBGA	-40°C ~ 80°C	497-6285-ND	13.99	12.72	10.82	STR912FAZ42H6

STM32 Cortex™ Microcontrollers

The STM32 family of 32-bit Flash microcontrollers is based on the breakthrough ARM®Cortex™-M3 core, which is specifically developed for embedded applications requiring a combination of high performance, low power and low cost. The STM32 family benefits from the Cortex™-M3 architectural enhancements (including the Thumb-2® instruction set) that deliver improved performance combined with better code density, and a tightly coupled nested vectored interrupt controller that significantly speeds response to interrupts, all combined with industry-leading power consumption.

Program (KBytes)	RAM (KBytes)	No. of Timers	I/O Ports	Supply Voltage	Package	Temperature Range (°C)	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
								1	10	100	
16	4	6	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-10501-ND ***NEW!***	2.73	2.38	1.98	STM32F100C4T6B
	4	6	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-10497-ND ***NEW!***	2.80	2.50	2.05	STM32F100R4T6B
32	4	6	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-10500-ND ***NEW!***	2.86	2.55	2.10	STM32F100C6T6B
	4	6	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-10496-ND ***NEW!***	3.22	2.88	2.36	STM32F100R6T6B
	6	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6057-ND	5.63	5.04	4.13	STM32F101R6T6
	10	2	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6064-ND	5.99	5.39	4.43	STM32F103R6T6
	16	2	26	2 ~ 3.6	36-VFQFPN	-40 ~ 85	497-8315-ND	5.96	5.33	4.37	STM32F101T4U6A
	16	2	26	2 ~ 3.6	36-VFQFPN	-40 ~ 85	497-8318-ND	6.50	5.85	4.81	STM32F103T4U6A
	16	2	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8313-ND	5.96	5.33	4.37	STM32F101C4T6A
	16	2	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8305-ND	6.55	5.85	4.80	STM32F102C4T6A
	16	2	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8316-ND	6.50	5.85	4.81	STM32F103C4T6A
	16	2	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8314-ND	6.30	5.63	4.62	STM32F101R4T6A
	16	2	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8309-ND	6.92	6.18	5.07	STM32F102R4T6A
	16	2	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8317-ND	6.90	6.21	5.11	STM32F103R4T6A
	32	2	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8306-ND	6.30	5.67	4.67	STM32F102C6T6A
	32	2	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8310-ND	6.78	6.10	5.02	STM32F102R6T6A
	64	3	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8307-ND	7.28	6.55	5.39	STM32F102C8T6
	64	3	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8311-ND	7.80	7.02	5.78	STM32F102R8T6
	128	3	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-8308-ND	8.95	8.06	6.63	STM32F102CBT6
	128	3	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8312-ND	9.38	8.44	6.94	STM32F102RBT6
64	8	7	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-10499-ND ***NEW!***	3.84	3.43	2.81	STM32F100C8T6B
	8	7	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-10657-ND ***NEW!***	4.20	3.75	3.38	STM32F100R8T6B
	8	7	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-10658-ND ***NEW!***	4.68	4.18	3.76	STM32F100V8T6B
	10	6	26	2 ~ 3.6	36-VFQFPN	-40 ~ 85	497-9032-ND ***NEW!***	6.60	5.94	4.89	STM32F101T8U6
	10	3	32	2 ~ 3.6	48-LQFP	-40 ~ 85	497-6055-ND	6.60	5.94	4.89	STM32F101C8T6
	10	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6058-ND	7.10	6.39	5.26	STM32F101R8T6
	10	3	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6060-ND	8.13	7.32	6.02	STM32F101V8T6
	20	3	32	2 ~ 3.6	48-LQFP	-40 ~ 105	497-6063-ND	8.13	7.32	6.02	STM32F103C8T6
	20	3	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6065-ND	8.73	7.86	6.46	STM32F103R8T6
	20	3	80	2 ~ 3.6	100-LFBGA	-40 ~ 105	497-6067-ND	9.80	8.82	7.26	STM32F103V8H6
	20	3	80	2 ~ 3.6	100-LQFP	-40 ~ 105	497-6068-ND	9.80	8.82	7.26	STM32F103V8T6
	20	3	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8922-ND	9.15	8.24	6.78	STM32F105R8T6
	20	3	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-8921-ND	10.30	9.27	7.63	STM32F105V8T6
128	8	7	37	2 ~ 3.6	48-LQFP	-40 ~ 85	497-10498-ND ***NEW!***	4.42	3.95	3.24	STM32F100CBT6B
	8	7	51	2 ~ 3.6	64-TFBGA	-40 ~ 85	497-10495-ND ***NEW!***	4.79	4.28	3.51	STM32F100RBH6B
	8	7	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-10494-ND ***NEW!***	4.79	4.28	3.51	STM32F100RBT6B
	8	7	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-10659-ND ***NEW!***	5.15	4.60	4.14	STM32F100VBT6B
	16	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6059-ND	8.53	7.68	6.31	STM32F101RBT6
	16	3	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6061-ND	9.55	8.60	7.07	STM32F101VBT6
	20	3	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6066-ND	10.15	9.14	7.52	STM32F103RBT6
	20	3	80	2 ~ 3.6	100-LFBGA	-40 ~ 105	497-6069-ND	11.33	10.20	8.39	STM32F103VBH6
	20	3	80	2 ~ 3.6	100-LQFP	-40 ~ 105	497-6070-ND	11.33	10.20	8.39	STM32F103VBT6
	32	6	80	2 ~ 3.6	48-LQFP	-40 ~ 80	497-6287-ND	8.13	7.32	6.02	STM32F101CBT6
	32	7	80	2 ~ 3.6	48-LQFP	-40 ~ 80	497-6288-ND	9.60	8.64	7.11	STM32F103CBT6
	32	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8920-ND	10.65	9.59	7.89	STM32F105RBT6
	32	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-8919-ND	11.90	10.71	8.81	STM32F105VBT6
	48	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8916-ND	11.73	10.56	8.68	STM32F107RBT6
	48	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-8915-ND	11.53	10.48	8.91	STM32F107VBT6
256	32	9	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-9031-ND ***NEW!***	11.00	9.90	8.14	STM32F101RCT6
	48	11	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-9033-ND ***NEW!***	11.20	10.18	8.66	STM32F103RCT6
	48	11	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-9034-ND ***NEW!***	12.28	11.16	9.49	STM32F103VCT6
	64	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8918-ND	11.33	10.30	8.76	STM32F105RCT6
	64	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-8917-ND	12.43	11.30	9.61	STM32F105VCT6
	64	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-8914-ND	12.47	11.34	9.64	STM32F107RCT6
	64	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-8913-ND	13.68	12.44	10.58	STM32F107VCT6
384	64	11	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-9035-ND ***NEW!***	13.75	12.50	10.63	STM32F103VDT6
512	48	4	112	2 ~ 3.6	144-LQFP	-40 ~ 85	497-6439-ND	15.31	13.92	11.84	STM32F101ZET6
	48	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6440-ND	13.57	12.34	10.49	STM32F101VET6
	48	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6441-ND	13.13	11.94	10.15	STM32F101RET6
	64	11	112	2 ~ 3.6	144-BGA	-40 ~ 85	497-9037-ND ***NEW!***	16.92	15.38	13.08	STM32F103ZEH6
	64	4	112	2 ~ 3.6	144-LQFP	-40 ~ 85	497-6442-ND	16.92	15.38	13.08	STM32F103ZET6
	64	11	80	2 ~ 3.6	100-BGA	-40 ~ 85	497-9036-ND ***NEW!***	15.40	14.00	11.90	STM32F103VEH6
	64	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6443-ND	15.40	14.00	11.90	STM32F103VET6
	64	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6444-ND	14.52	13.20	11.22	STM32F103RET6

Kits and Tools

FlashLINK JTAG Programming Cable for PSD and uPSD

The family of Flash PSD and uPSD devices offer In-System Programming (ISP) allowing a completely blank device to be programmed while soldered to a circuit board. This simplifies manufacturing and provides an effective way to update products after they are in use. Flash PSD and uPSD devices comply to the core requirements of the IEEE 1149.1 JTAG specification. However, these devices do not support boundary scan functions. Instead, they support ISP, and some uPSD devices support emulation through JTAG.

497-2381-ND	(FL-101)	**66.77**

STM8/128 Evaluation Board

The STM8S2xx evaluation board STM8/128-EVAL is designed as a complete development platform for STMicroelectronic's STM8 core-based STM8S2xx microcontroller with CAN2.0A/B compliant interface, I^{2}C, SPI, two UART channels with smartcard, IrDA and LIN support, internal 2 Kbyte data Flash and 128 Kbyte code Flash, SWIM debugging support. The full range of hardware features on the board is able to help you evaluate all peripherals (including motor control, CAN, MicroSD card, smartcard, UART, LIN, IrDA) and develop your own applications. Extension headers make it possible to easily connect a daughter board or wrapping board for your specific application. **Features:** • Two 5V power supply options: power jack or daughter board • Audio play and record • 64 or 128 Mbyte MicroSD card • Both A&B type smartcard support • 64 Kbit I^{2}C EEPROM • 2 channels of RS-232 communications • IrDA transceiver • 2 channels of LIN communication • CAN2.0A/B compliant connection • Inductor motor control connector • SWIM and STice debug support • 122x32 dot-matrix serial interface LCD module • Joystick with 4-direction control and selector • Reset, Wakeup, Tamper and User button • 4 LEDs • Extension connector for daughter board or wrapping board

497-8506-ND	(STM8/128-EVAL)	**$162.50**

NEW! STM8L15x Low-Power Demo Board

Ultra-Low-power and low-cost board for STM8L15x to demonstrate all different low power modes and functionalities and provide a means to measure current sourced by the battery while paused in each of the modes. **Features:** • 7 different modes to demonstrate STM8L15x Ultra Low Power • 1 LCD glass • Battery CR2032 + Socket • 1 header 2x1 and jumper for supply • 2 buttons on the board • 1 SWIM connector for STM8L board config • 1 JTAG connector for STM32L board config • 1 I/O access port connector 2x12

497-10594-ND	(STM8L15LPBOARD)	**$58.50**

NEW! STM8S-DISCOVERY Evaluation Kit

The STM8S-DISCOVERY is a quick start evaluation board which helps you to discover the STM8 features, and to develop and share your own application. It is based on an STM8S105 and includes an embedded debugger, ST-LINK, and a touch sensing button. Numerous applications are available from the STM8S-DISCOVERY web page. **Features:** • STM8S105C6T6 microcontroller, 32KB Flash, 2KB RAM, 1KB EEPROM • Powered by USB cable between PC and STM8S-DISCOVERY • Selectable power of 5V or 3.3V • Touch Sensing button, TS1 • User LED, LD1 • Extension header for all I/Os • Wrapping area for users own application • Embedded ST-LINK for STM8S • USB interface for programming and debugging • SWIM debug support

497-10040-ND	(STM8S-DISCOVERY)	**$9.60**

NEW! STM8S Touch Sensing Evaluation Board

The STM8S touch sensing evaluation kit (STM8/128-EV/TS) provides a platform that introduces users to STMicroelectronics capacitive touch sensing firmware library. The kit contains a STM8S touch sensing (TS) evaluation daughterboard (STM8Sxxx-TS1) in addition to the STM8/128-EVAL board. The STM8S touch sensing evaluation daughterboard (STM8Sxxx-TS1) provides an evaluation platform for resistor-capacitor (RC) touch sensing technology for an implementation using 5 keys and one slider. The STM8S TS evaluation kit provides a software solution for transforming any 8-bit STM8 microcontroller (MCU) into a capacitive touchkey controller.

497-10031-ND	(STM8/128-EV/TS)	**$178.75**

NEW! Evaluation Kit Motor Control STM8S

The ACIM motor software library is made of several C modules and is fitted with STVD workspaces. It is used to quickly evaluate both the MCU and the available tools. When it is used with the STM8/128-MCKIT motor control starter kit and an AC induction motor, a motor can be made to run in a very short time. The ACIM library also eliminates the need for time-consuming development of low-level drive and speed regulation algorithms by providing ready-to-use functions that allow the user to concentrate on the application layer.

497-10032-ND	(STM8/128-MCKIT)	**$1198.75**

NEW! STICE-SYS001 Emulator for STM8

The STice is the advanced in-circuit emulation system from STMicroelectronics. It offers a complete range of proven debugging features such as advanced breakpoints and trace recording. In addition, it provides new profiling and coverage capabilities to help detect and eliminate dead code and bottlenecks in application execution. The STice delivers improved cost-effectiveness by allowing users to order exactly what they need to meet their development requirements and to adapt their emulator system to support existing and future ST microcontrollers. In addition to emulation, the STice provides in-circuit debugging and programming capability for ST microcontrollers via the ST single wire interface module (SWIM). SWIM allows non-intrusive debugging of an application while it runs on the target microcontroller. The STice is supported by the free STM8 toolset, which includes the ST Visual Develop (STVD) integrated development environment for building, debugging and fine-tuning applications, the ST Visual Programmer (STVP) microcontroller programming interface and STM8 Assembler.

497-10029-ND	(STICE-SYS001)	**$1987.50**

NEW! Raisonance's complete, low-cost Starter Kits for STM8 and ST7

The REva starter kits are Raisonance's complete, cost-effective solutions for starting application development and evaluating STM8x, ST7LITEx, ST7Fox, ST7232x, ST7234x, ST7236x and ST7263B microcontrollers. Kits contain all the hardware and software required to develop applications for microcontrollers, including the REva evaluation board, target STM8 and ST7 microcontrollers, embedded RLink for in-circuit debugging and in-circuit programming and the Raisonance integrated development environment (Ride7) with application builder.

497-10592-ND	(STM8/128-D/RAIS)	**$79.80**
497-10593-ND	(STM8/128-SK/RAIS)	**$228.75**

Hitex STM32 Performance Stick

The Hitex STM32-Performance Stick is a complete, low-cost evaluation and development package that provides a fast and easy introduction to the capabilities of STMicroelectronics' ARM®Cortex™-M3 core-based STM32 family of microcontrollers. It is specifically designed to help application designers explore STM32 features and performance characteristics (low power modes, clock controls, wake up states, etc.), but can also be connected to extension boards with hardware features for evaluation of device peripherals or development of an application.

497-6289-ND	(STM3210B-PFSTICK)	**$69.16**

NEW! ST-LINK Debugger/Programmer

The ST-LINK is an in-circuit debugger and programmer for the STM8 and STM32 microcontroller families. The SWIM and JTAG/SWD interface is used to communicate with the STM8 or STM32 microcontroller located on your own application board. On the PC side, the USB full speed interface is used to communicate with: • ST Visual Develop (STVD) or ST Visual Program (STVP) software from STMicroelectronic's for the STM8 • ATOLLIC, IAR and KEIL Integrated Development Environments for the STM32

497-10484-ND	(ST-LINK)	**$25.50**

NEW! STM32-COMSTICK Development Kit

The ComSticks are complete, low-cost evaluation and development packages that provide a fast and easy introduction to the networking features of Cortex™-M3 STM32 and ARM966E™ core-based microcontroller families. The ComSticks include several sample applications implementing device peripherals (Ethernet, USB, CAN, ADC,...) plus a web server application so that users can explore networking of embedded application. The C source code for all sample applications is provided so that users can modify them, and then rebuild and debug the application.

497-9040-ND	(STM32-COMSTICK)	**$100.80**

STM3210B-MCKIT Motor Control Starter Kit

The STM3210B-MCKIT starter kit is an integrated system designed to provide a complete, ready-to-use motor control application developed around the STM32 microcontroller. This starter kit is particularly suited to drive 3-phase brushless motors (either AC induction or permanent magnet types) and demonstrates how effectively the STM32 microcontrollers can be used in real-world motor control applications.

497-8304-ND	(STM3210B-MCKIT)	**$1477.73**

STM3210B-EVAL Evaluation Board

The STM3210B-EVAL is a complete development platform for the STM32F10x (128K) series of ARM®Cortex™-M3 core-based microcontrollers. It provides a cost effective, flexible and open design ideal for demonstrating the capabilities of the STM32F10x devices and rapidly evaluating device features and available peripherals. It includes an STM32F10x device with high performance ARM®Cortex™-M3, full speed USB 2.0 interface, CAN 2.0A/B compliant interface, 2 channels I2C, 2 channels SPI, 3 channels USART with smart card support, internal 20Kbyte SRAM and 128Kbyte flash. The STM3210B-EVAL board includes a complete range of hardware features for evaluating microcontroller performance and starting development of a wide range of applications. Features include MicroSD card, serial flash, USB, CAN, I2C, RS232, IrDA, induction motor control connector, TFT color LCD and more.The board features industry standard JTAG connector allowing developers to choose from a wide variety of development tools from third party tool suppliers.

497-6048-ND	(STM3210B-EVAL)	**$236.25**

STM3210C-EVAL Evaluation Board

The STM32F107VCT evaluation board STM3210C-EVAL is designed as a complete development platform for STMicroelectronic's ARM Cortex-M3 core-based STM32F107VCT microcontroller with full speed USB-OTG, ethernet MAC, two channels of CAN2.0A/B compliant interface, 2 channels I2S, 2 channels I2C, 5 channels USART with smartcard support, 3 channels SPI, internal 64KB SRAM and 256KB Flash, JTAG and SWD debugging support. The full range of hardware features on the board help you evaluate all peripherals (USB-OTG FS, ethernet, motor control, CAN, micro SD card™, smartcard, USART, audio DAC, MEMS, EEPROM...etc.) and develop your own applications. Extension headers make it easy to connect a daughterboard or wrapping board for your specific application.

497-8924-ND	(STM3210C-EVAL)	**$298.75**

NEW! STM3210C-SK/IAR Development Kit

The IAR KickStart kits are complete, cost-effective solutions for starting application development and evaluating STMicroelectronics' ARM core-based microconrtollers. The KickStart kits come with all the hardware and software you need to start developing applications including the KickStart development board with target microcontroller, the IAR J-Link in-circuit debugger/programmer (USB/JTAG) and IAR Embedded Workbench™ for ARM (EWARM) integrated development environment with the KickStart edition of the IAR C/C++ compiler (output code up to 32Kbytes), built-in Flash loader and sample projects for all device peripherals. IAR KickStart kits provide evaluation and development support for a full range of ST ARM core-based microcontrollers.

497-9041-ND	(STM3210C-SK/IAR)	**$286.25**

NEW! STM3210C-SK/KEIL Development Kit

The Keil starter kits are complete solutions for starting application development and evaluating STMicroelectronics' ARM core-based microcontrollers. They come with all the hardware and software you need to start developing applications for the STM32, STR9 and STR7 ARM core-based families of microcontrollers. The kits come complete with Keil's uVision3 integrated development environment for ARM and the 16Kbyte code-size limited version of the ARM RealView Compilation Tools, a full-features evaluation board (including USB, USART, SPI, ADC) and target microcontroller, with the ULINK (USB/JTAG) in-circuit debugger/programmer. Keil starter kits are available for a full range of ST ARM core-based microcontrollers.

497-9042-ND	(STM3210C-SK/KEIL)	**$312.50**

NEW! STM3210C-SK/RAIS Development Kit

The Raisonance REva starter kits are complete, low-cost solutions for starting application development and evaluating the features of STMicroelectronics' ARM® Cortex™-M3, ARM966E™ and ARM7TDMI™ core-based microcontrollers. The kit comes with all the hardware and software that developers need to start developing applications, including the REva evaluation board, microcontrollers, embedded RLink JTAG in-circuit debugger/programmer and Raisonance Integrated Development Environment (RIDE). The REva starter kits are available for a full range of 32-bit and 8-bit microcontrollers including the STM8, ST7 and uPSD families.

497-9043-ND	(STM3210C-SK/RAIS)	**$248.75**

(Continued)

Kits and Tools *(Cont.)*

NEW! STM3210E-SK/HIT Starter Kit for STM32

The Hitex starter kit is a complete, full-featured solution for starting application development and evaluating the features of STMicroelectronics' ARM core-based microcontrollers. The kit comes with all the hardware and software that developers need to start developing applications for STM32, STR9 and STR7 devices, including full-featured evaluation board, target microcontroller, in-circuit debugger/programmer (USB/JATG) and the HiTOP development software with C/C++ toolset.

497-10030-ND	(STM3210E-SK/HIT)	**$161.25**

STM3210E-SK/IAR Starter Kit

The IAR KickStart kits are complete, cost-effective solutions for starting application development and evaluating STMicroelectronics' ARM core-based microcontrollers. The KickStart kits come with all the hardware and software you need to start developing applications including the KickStart development board with target microcontroller, the IAR J-Link in-circuit debugger/programmer (USB/JTAG) and IAR Embedded Workbench™ for ARM (EWARM) integrated development environment with the KickStart edition of the IAR C/C++ compiler (output code up to 32 Kbytes), built-in Flash loader and sample projects for all device peripherals. IAR KickStart kits provide evaluation and development support for a full range of ST ARM core-based microcontrollers.

497-8505-ND	(STM3210E-SK/IAR)	**$311.75**

NEW! STM32-MICRIUM Evaluation Board

The STM32-MICRIUM evaluation board is a complete development platform for STMicroelectronic's ARM Cortex™-M3 core-based microcontroller with full-speed USB-OTG, Ethernet MAC, two channels of CAN2.0A/B compliant interface, two I2S channels, two I2C channels, five USARTs with smartcard support, three SPIs, 64KB internal SRAM and 256KB Flash, JTAG and SWD debugging support.

497-10064-ND	(STM32CMICOS-EVAL)	**$211.47**

STM3210E-SK/KEIL Starter Kit

The Keil starter kits are complete solutions for starting application development and evaluating STMicroelectronic's ARM core-based microcontrollers. They come with all the hardware and software you need to start developing applications for the STM32 core-based families of microcontrollers. The kits come complete with Keil's uVision3 integrated development environment for ARM and the 16 Kbyte code-size limited version of the ARM RealView Compilation Tools, a full-featured evaluation board (including USB, USART, SPI, ADC) and target microcontroller, with the ULINK (USB/JTAG) in-circuit debugger/programmer. Keil starter kits are available for a full range of ST ARM core-based microcontrollers.

497-8512-ND	(STM3210E-SK/KEIL)	**$332.05**

STM3210E-EVAL Evaluation Board

The STM32 evaluation boards provide complete development platforms for the STM32F10xB (128K) and STM32F10xE (512K) series of ARM®Cortex™-M3 core-based microcontrollers. They include an STM32 microcontroller with high performance ARM®Cortex™-M3, full speed USB 2.0 interface, CAN 2.0A/B compliant interface, I2C, SPI, USART with smart card support and internal SRAM and Flash memory. Features include MicroSD card, serial Flash, USB, CAN, I2C, RS232, IrDA, induction motor control connector, TFT color LCD, audio play/record circuit. For the STM32F10xE, the board also includes a wide range of external memory. The boards feature industry standard JTAG connector allowing developers to choose from a wide choice of development tools from third-party tool suppliers. In addition, the STM32F10xE board includes a high density 20-pin connector so that users can take advantage of tools offering runtime trace.

497-6438-ND	(STM3210E-EVAL)	**$248.75**

STM3210B and STM3210E Starter Kits

STM3210B and STM3210E Starter kits are complete sets of hardware and software designed to help users discover device features and start application development easily. **STM3210B-PRIMER** is a complete, ultra low cost kit for evaluation and application development. **STM3210E-PRIMER** is a complete, ultra low cost kit for evaluation and application development for 512K **STM3210B-SK/HIT Hitex Kit** — STM32 starter kit with HiTOP5 development software, GNU C/C++ compiler, debugger and USB stick with STM32 device, evaluation features and integrated in-circuit debugging/programming capabilities. Extension boards allow evaluation of additional device features. **STM3210B-SK/KEIL Keil Starter Kit** for STM32 with RealView Microcontroller Development Kit for ARM (16K code-size limited version) with ARM C/C++ compiler, ULINK (USB/JTAG) in-circuit debugger/programmer and evaluation board for STM32. **STM3210B-SK/Raisonance REva Starter Kit** for STM32 with RIDE (32K code-size limited version for Cortex core), GNU C/C++ compiler, debugger, RLink (USB/JTAG) in-circuit debugger/programmer, demonstration motherboard and daughterboard with STM32 target device. **STM32103B-D/RAIS** is a daughter card that converts the STM3210B-SK/RAIS to the Performance line.

497-6049-ND	(STM3210B-PRIMER)	**$48.00**
497-8511-ND	(STM3210E-PRIMER)	**$67.50**
497-6050-ND	(STM3210B-SK/HIT)	**$131.67**
497-6052-ND	(STM3210B-SK/KEIL)	**$195.00**
497-6053-ND	(STM3210B-SK/RAIS)	**$208.75**
497-6047-ND	(ST32103B-D/RAIS)	**$94.43**

NEW! STM32 Value Line Discovery Board

Features: • On-board ST-LINK with selection mode switch to use the kit as stand-alone ST-LINK with SWD connector • Designed to be powered by USB or by external power 5V or 3.3V supply • Can supply target application with 5V or 3V • Two User LEDs (Green and Blue) • One user Push Button • Extension header for all QFP64 I/Os for quick connection to prototyping board or easy probing

497-10633-ND	(STM32VLDISCOVERY)	**$11.85**

NEW! Raisonance REva Starter Kit for ST ARM Core-Based Microcontrollers

The Raisonance REva Starter Kit is complete, low-cost solutions for starting application development and evaluating the features of STMicroelectronics' ARM®Cortex™-M3, ARM966E™, and ARM7TDMI™ core-based microcontrollers. The kit comes with all the hardware and software that developers need to start developing applications, including the REva evaluation board, microcontrollers, embedded RLink JTAG in-circuit debugger/programmer and Raisonance Integrated Development Environment (RIDE). The REva starter kit is available for a full range of 32-bit and 8-bit microcontrollers including the STM8, ST7 and uPSD families.

497-10591-ND	(STM32107C-D/RAIS)	**$125.00**

STR7 KickStart Kits from IAR

IAR KickStart Kits™ are cost effective and complete evaluation and development systems in a single package that are designed to help you to a flying start with all the necessary hardware and software you need to design, implement and test your application. **Kit Includes:** • STR7 Development Board • J-Link-KS — IAR Systems' USB-to-JTAG Debugger • CD containing Embedded Workbench® for ARM — IAR's easy-to-use, powerful integrated development environment that seamlessly integrates a complete range software tools in a comprehensive toolkit, recognized for its efficient code generation and unique debugging properties. It includes the 32KB KickStart version of the C/C++ compiler, built in Flash loader and many useful sample projects covering the full range of STR7 peripherals

497-4550-ND	(STR711-SK/IAR) — ***RoHS Compliant***	**$299.00**
497-5047-ND	(STR730-SK/IAR)	**$298.75**
497-4886-ND	(STR712-SK/IAR) — ***RoHS Compliant***	**$299.00**

STR7 REva Starter Kit from Raisonance

The REva starter kits from Raisonance are cost effective and complete solutions for evaluating and starting application development with ST microcontrollers. **Kit Package Includes:** • REva Mother Board: Universal evaluation board designed to easily and quickly evaluate a range of ST microcontrollers. The mother board provides a host of evaluation features including LEDs, push buttons, switches, temperature sensor, potentiometer and interfaces for I^2C, SPI and UART. • REva Daughter Boards: Dedicated boards that contain all the specific components for a given microcontroller, including the MCU itself, a clock selector and other device dependant features. • RLink: In-circuit debugger/programmer, featuring USB host interface. The RLink is attached to the REva mother board so that no additional connection cables are required for in-circuit programming and debugging with the REva. In addition, the user can power the MCU, REva evaluation board and the RLink all from the USB connection. • Raisonance's RIDE: The full-featured Integrated Development Environment, which provides seamless integration of C and Assembler tools and a full-featured debug interface.

497-5049-ND	(ST7FLITE-SK/RAIS)	**$148.75**

Hitex Starter Kit for STR7

The Hitex Starter Kits for ST ARM® are complete, full-featured solutions for starting application development and evaluating the features of STMicroelectronics' ARM® core-based microcontrollers. They come with all the hardware and software developers need to start developing applications for STR7 and STR9 devices, including full-featured evaluation board, target microcontroller, Tantino JTAG interface and the HiTOP5 Integrated Development Environment with GNU C/C++ toolset. **Starter Kit Architecture: • Tantino:** In-circuit debugging and programming tool for ARM7TDMI™ and ARM966E™ core-based microcontrollers features USB host interface and industry standard JTAG application board interface **• Hitex Evaluation Board:** Full-featured evaluation board with target microcontroller is designed for quick and easy evaluation of a complete range of microcontroller features such as Ethernet, USB, CAN, UART, I^2C and SPI as well as the ADC peripheral. Power supply is included. **• HiTOP5 Software:** Hitex's integrated development environment that drives the hardware and offers a full range of project management, source code editing and debugging features from an intuitive graphical interface. Includes the GNU C/C++ toolset for compiling application source files. The starter kit comes with 16K code-size limited version of the HiTOP5 IDE. HiTOP5 also supports the Tanto in-circuit debugging tool and Tanto Port Trace for STR9 microcontrollers with Embedded Trace Macrocell **Starter Kit Key Features: • Tantino:** • USB interface to host PC • JTAG standard interface • Supports ARM7TDMI™ and ARM966E™ core-based microcontrollers **• HiTOP5:** • GNU C/C++ Toolset • HiSIM instruction simulator for ARM® • Projected management • Integrated editor • High-level language debugging • Trace support • Drives both Tantino and Tanto JTAG interfaces

497-5751-ND	(STR750-SK/HIT)	**$198.75**

Keil Starter Kit for STR7 and STR91xF

The Keil starter kits are complete solutions for starting application development and evaluating STMicroelectronics' families of ARM® core-based microcontrollers. They come with all the hardware and software you need to start developing applications for the STR7 ARM7TDMI™ and STR9 ARM966E™ core-based microcontrollers. The kits come complete with evaluation board and target microcontroller, the ULink™ USB-to-JTAG in-circuit debugger/programmer Keil's uVision3 integrated development environment for ARM and the 16KB code-size limited version of the ARM RealView Compilation Tools. **Starter Kit Architecture: • ULink:** USB-to-JTAG in-circuit debugger/programmer integrates fully with uVision3, allowing users to download the application to the target and debug it while it runs on the ST ARM core-based microcontroller on the evaluation board **• Evaluation Board:** An application board that provides a full range of features (I/Os, ADC, UART, SPI, USB...etc.) to help users evaluate and start developing applications for the included microcontroller **• Keil Development Software:** A suite of software tools for developing and debugging applications for STR7 and STR9 including: • uVision3 integrated development environment integrating the ARM RealView Compilation Tools and Keil's debugging software so that users can quickly and easily develop and debug their applications while they run on a target microcontroller. • ARM RealView Compilation Tools (RVCT) 16K code-size limited version of the optimizing C/C++ compiler for ARM core-based microcontrollers **Starter Kit Key Features: • ULink:** • USB interface to the host PC • 20-pin JTAG application interface • Supports ARM7TDMI and ARM966E core-based microcontrollers.

497-5753-ND	(STR750-SK/KEIL)	**$198.75**
497-5066-ND	(STR91X-SK/KEI)	**$248.75**

KickStart Starter Kit for STR7 and STR9

The KickStart Kits™ (STR711-SK/IAR, STR712-SK/IAR, STR730-SK/IAR, STR731-SK/IAR and STR91x-SK/IAR) are IAR's complete, cost-effective solutions for starting application development and evaluating STMicroelectronics' ARM® core-based microcontrollers. They come with all the hardware and software you need to start developing applications for a full range of STMicroelectronics' ARM7TDMI™ and ARM966E™ core-based microcontrollers. The kits include the KickStart Development Board with target microcontroller, the IAR JLink USB-to-JTAG debugger and IAR Embedded Workbench® for ARM (EWARM) integrated development environment with the 32KB KickStart version of the C/C++ compiler, built in Flash loader and sample projects for all device peripherals. **Starter Kit Architecture: • JLink:** USB-to-JTAG in-circuit debugger/programmer integrates fully with EWARM, allowing you to download the application to your target and debug it while it runs on your ST ARM core-based microcontroller **• KickStart Development Board:** • Evaluation board that provides a full range of features (I/Os, ADC, UART, SPI, I^2C, USB, etc.) to help you evaluate and start developing applications for the included microcontroller • The board is powered from the JLink's USB connection with the host PC **• IAR Development Software:** A suite of software tools for all phases of application development that includes: • IAR Embedded Workbench for ARM integrated development environment with the KickStart 32KB C/C++ compiler to build the application and the C-SPY™ debugger for debugging the application while it runs on your microcontroller • VisualSTATE® 20-state version of IAR's graphical design environment with C/C++ code generator for developing application code based on machine states. **Starter Kit Key Features: • JLink:** • Supplies power from USB connection via pin 19 of the JTAG connector (no additional power supply required). • Download speed up to 50KB/sec • Maximum JTAG speed 8MHz • Auto speed recognition • 20-pin standard JTAG connector • USB and 20-pin flat cable included • Level shifter for 3.3V to 5V conversion (STR73X-SK/IAR, STR91X-SK/IAR) **• Supported platforms:** Microsoft® Windows® 2000 and XP

497-5752-ND	(STR750-SK/IAR)	**$298.75**
497-5065-ND	(STR91X-SK/IAR)	**$328.75**

I Love ST Mini Development Board

The I Love ST Mini Development Board contains an STR750 microcontroller, 16 LEDs, 2 skin-conductance pads which can be used as buttons, and an STR711 controlling the USB port and the JTAG functions. The board will run for several hours on the lithium battery mounted on the bottom of the board. No external JTAG debugger probe is necessary. Simply connect a mini-USB cable to the board and load the KickStart edition of IAR Embedded Workbench for ARM to Flash and debug your STR750 application.

497-5988-ND	(STR750-LOVE)	**$37.50**

(Continued)

Kits and Tools *(Cont.)*

REva Starter Kits for STR7 and STR9

The REva Starter Kits (STR71X-SK/RAIS, STR730-SK/RAIS, STR91X-SK/RAI) are Raisonance's complete, low-cost solutions for starting application development and evaluating the features of STMicroelectronics' ARM7TDMI™ and ARM966E™ core-based microcontrollers. Kits come with all the hardware and software developers need to start developing applications for STR7 and STR9 devices, including the REva evaluation board, microcontroller(s), embedded RLink JTAG in-circuit debugger/programmer and Raisonance Integrated Development Environment (RIDE). **Starter Kit Architecture:** • **Embedded RLink:** In-circuit debugging and programming tool with JTAG application board interface and USB connection to the host PC • **REva Motherboard:** Universal evaluation board designed for quick and easy evaluation of a complete range of device features. It is powered from the RLink's USB connection to the host PC • **REva Daughter Boards:** Interchangeable boards featuring different target microcontrollers, make it easy to evaluate and develop applications for a complete range of MCUs from a single evaluation platform • **RIDE Software:** Raisonance's integrated development environment drive the hardware and offers seamless control of all software development tools (compiler, assembler, linker, debugger, etc.) from an intuitive graphical interface. Fully integrates control of the GNU C/C++ tools. The starter kit comes with the 16K code size limited version of RIDE • **REva Starter Kits:** Based on the same mother/daughter board design, with embedded RLink, and driven by RIDE are available for the ST7 and uPSD 8-bit microcontroller families **Starter Kit Key Features:** • **Embedded RLink:** • USB interface to host PC • Industry standard JTAG application interface • **REva Motherboard:** • One standard SO-DIMM connector to plug in daughter boards • Digital and analog I/O evaluation features, including on-board LEDs, buttons, switches, external analog connector, temperature sensor and potentiometer • I^{2}C EEPROM and bus • RS232 driver and 2 DB9 connectors • Prototyping area • VDD settings for 1.8V, 3.3V and 5V • USB powered, no external power required

497-5754-ND (STR750-SK/RAIS) — ***RoHS Compliant*** **$198.75**
497-5064-ND (STR91X-SK/RAI) **$248.75**

STR750 Evaluation Board

RoHS COMPLIANT

The STR750 Evaluation Board (STR750-EVAL) is a complete, development platform for STMicroelectronics' ARM® core-based STR75xF microcontrollers. Based on a cost effective, flexible and open design, it allows easy demonstration of STR75xF capabilities and enables rapid evaluation of the microcontroller's peripheral and other features. It includes the high performance STR750F microcontroller, which is based on the ARM7TDMI-S core and includes USB 2.0 compliant port with full speed data transmission, CAN 2.0A/B compliant interface, 3 UART channels, internal Flash and internal SRAM memory. The STR750-EVAL features a complete range of connectors and hardware features for developing applications based on STR75xF peripherals including motor control, USB and RS232 connectors, microphone, speaker, joystick and LCD display. he STR750-EVAL uses a JTAG standard interface to connect to your host PC via any of a range of in-circuit emulators (ICE) for ARM core-based microcontrollers. **Features:** • Three 5V power supply options: Power jack, USB connection or daughter board • RTC • Audio play and record • 3 RS232 connectors, one with hardware flow control • USB 2.0 compliant with full speed (12Mb/s) data transmission • CAN 2.0A/B connection • Inductor Motor Control connector with 6 PWM output and Emergency Stop • Debug and programming support via 20-pin JTAG connector • Dot-matrix LCD module • Joystick with 4-direction control and selector • Extension connectors for daughter board or wrapping board

497-5748-ND (STR750-EVAL) **$239.00**

STR71x Evaluation Board

The STR710-EVAL board is a complete development platform for the STR71x series. The STR710-EVAL board is a cost effective, flexible and open design to demonstrate the capability of the STR71x series of flash microcontrollers and to enable rapid evaluation of the STR71x devices and available peripherals. It includes the high performance STR710FZ2T6 ARM7TDMITM device that boasts 2Mbits embedded flash with "best-in-class" random access time, 64KB on-chip high speed SRAM as well as up to 10 serial communication interfaces, including USB and CAN. The STR710-EVAL board includes SRAM and flash memory on the EMI to enable full freedom in development of large programs before custom hardware is designed. It integrates a 2x16 LCD, LED's, UART, CAN, USB interfaces, piezo buzzer and test buttons to create a versatile stand alone test platform. A wide choice of development tool support is readily available, including tools from: STMicroelectronics and 3rd parties.

497-4516-ND (STR710-EVAL) **$300.00**

ST7 Evaluation Boards

RoHS COMPLIANT

This demonstration board is used to program EEPROM data and to test ST7LNBx (0/1) microcontrollers on sockets or remotely using a coaxial cable (75Ω), via DiSEqC commands. **Features:** • Ready-to-use programming and test board with user friendly graphical user interface or windows hyper terminal • EEPROM data programming on-socket or via coaxial cable • DiSEqC commands testing controlled by pre-programmed microcontroller and dedicated voltage regulatorBased on ST7LNBX

497-6453-ND (STEVAL-CBL001V1) **$132.67**

STR910 Family Evaluation Board

The STR910 evaluation board (STR910-EVAL) is a complete development platform for the STMicroelectronics' ARM® core-based STR91xF. Based on the ARM966E-S® core. The STR91xF includes Pre-Fetch Queue and Branch cache, full speed USB 2.0 compatible port, Ethernet 100/10 interface, embedded MAC, CAN2.0B compliant interface, a large Dual Bank Flash memory, a large SRAM and many peripherals. It includes a STR910F microcontroller, pre-loaded demonstration software and a full range of hardware features to help you evaluate device peripherals (Motor control, IrDA, USB, Ethernet, CAN,...etc.) and develop your own applications. Extension headers make it possible to easily connect a daughter board or wrapping board for your specific application.

Features: • Three 5V power supply options: Jack, USB connection or a Daughter board • RTC with tamper detection • Audio play and record • 3 RS232 connectors with support of full modem control on one connector • Infrared Data Access (IrDA) • USB 2.0 compliant with full-speed (12Mb/s) data transmission • CAN 2.0B connection • Inductor Motor Control connector with 6 PWM output, emergency stop and Tachometer input • IEEE-802.3-2002 compliant Ethernet connection • Debug support via 20-pin JTAG connector • 38-pin ETM connector for optional trace module • Dot-matrix LCD module • Joystick with 4-direction control and selector • Extension connectors for daughter board or wrapping board

497-5067-ND (STR910-EVAL) **$278.75**

STX-RLINK Programmer

The RLink is Raisonance's versatile, low-cost, in-circuit debugger/programmer for ST7, uPSD, and STR7 microcontrollers. It connects to application or evaluation boards for programming and debugging via a JTAG standard connection for ARM core-based and uPSD microcontrollers, or via STMicroelectronics' In-Circuit Communication (ICC) connection for ST7 microcontrollers. The RLink can be driven by Raisonance's RIDE integrated development environment for in-circuit debugging and programming of applications for ST7 and uPSD, and in-circuit programming of STR7 microcontroller applications. In combination with Raisonance's free RFlasher programming software, RLink can be used as a very-low cost, dedicated in-circuit programmer for ST7 and STR7. ST7 application developers can also drive RLink using the STVD7 (version 3.3 or later) integrated development environment for in-circuit debugging/programming and STVP7 (version 2.0 or later) for in-circuit programing. Both are available for free download in the ST7 Toolset.

Note: RLinks included with REva starter kits for STR7 (ST part number: STRxxx-SK/RAIS) and Professional Kits for STR7 (Raisonance part number: RKITPSTRxxx) provide debugging of STR7 devices.

497-5046-ND (STX-RLINK) **$73.50**

STZB-SK/RAIS REva ZigBee Starter Kit

RoHS COMPLIANT

The STZB-SK/RAIS REva ZigBee Starter Kit is one of Raisonance's low-cost solutions designed to help developers add wireless connectivity to their ST7 microcontroller-based applications using STMicroelectronics' SN260 single-chip ZigBee wireless networking device. With the included SNRCM-260 module, EmberZnet ZigBee plug-and-play SPI interface, developers can turn their REva mother boards into wireless application nodes and explore the possibilities of networking their microcontroller applications.

Starter Kit includes: • SNRCM-260 module • EmberZnet stack • ST EZSP and HAL libraries • REva mother board and embedded RLink • STR711F daughter board • ST7FLITE3 daughter board • Raisonance RIDE • GNU C/C++ compiler for ARM • Raisonance C compiler for ST7

497-5990-ND (STZB-SK/RAIS) **$400.00**

Embedded Web Server Evaluation Board for ST7

RoHS COMPLIANT

The STEVAL-CDE001V1 is able to offer a temperature display via LCD on the board and on a webpage via Ethernet connection. It also acts as a server to provide temperature information on a webpage displayed on the client end. It is able to measure the temperature from a remote region and then provides the solution for central server-based temperature measurement of various terminals as in applications such as air conditioning control in the industrial sector and hospitals.

497-8395-ND (STEVAL-CDE001V1) **$144.38**

Microcontrollers, Kits and Evaluation Board

RoHS COMPLIANT

Fujitsu's LPC (Low Pin Count) MCUs feature high-performance, low-voltage, embedded flash, a precision on-chip RC oscillator, and an on-chip debug feature. The MB95200 series includes a complete range of single-chip standard microcontrollers with between 8 and 24 pins, powered by an optimized core and featuring low-leakage technology and embedded flash.

With fast processing capabilities and low power consumption position, the MB95200 series is an ideal design choice for appliances such as washing machines, refrigerators, ovens, smoke detectors, vacuum cleaners and air conditioning units. The MCUs are also ideal for cordless phones, remote controls, shavers and other handheld consumer products, as well as aftermarket automotive accessories

ROM (KBytes)	RAM (Bytes)	I/O Ports	A/D Converter	Package	Digi-Key Part No.	Price Each			Fujitsu Part No.
						1	10	50	
4	240	17	6-Ch., 8/10 Bit	20-SOP	865-1053-ND	1.89	1.77	1.64	MB95F202KPF-G-SNE2
	240	17	6-Ch., 8/10 Bit	24-SDIP	865-1054-ND	1.89	1.77	1.64	MB95F202KP-G-SH-SNE2
	240	5	2-Ch., 8/10 Bit	8-SOP	865-1059-ND	1.43	1.32	1.28	MB95F212KPF-G-SNE2
	240	5	2-Ch., 8/10 Bit	8-DIP	865-1060-ND	1.43	1.32	1.28	MB95F212KPH-G-SNE2
8	496	17	6-Ch., 8/10 Bit	20-SOP	865-1055-ND	2.07	1.94	1.80	MB95F203KPF-G-SNE2
	496	17	6-Ch., 8/10 Bit	24-SDIP	865-1056-ND	2.07	1.94	1.80	MB95F203KP-G-SH-SNE2
	496	5	2-Ch., 8/10 Bit	8-SOP	865-1061-ND	1.56	1.44	1.40	MB95F213KPF-G-SNE2
	496	5	2-Ch., 8/10 Bit	8-DIP	865-1062-ND	1.56	1.44	1.40	MB95F213KPH-G-SNE2
16	496	17	6-Ch., 8/10 Bit	20-SOP	865-1057-ND	2.46	2.30	2.14	MB95F204KPF-G-SNE2
	496	17	6-Ch., 8/10 Bit	24-SDIP	865-1058-ND	2.46	2.30	2.14	MB95F204KP-G-SH-SNE2
	496	5	2-Ch., 8/10 Bit	8-SOP	865-1063-ND	1.74	1.63	1.51	MB95F214KPF-G-SNE2
	496	5	2-Ch., 8/10 Bit	8-DIP	865-1064-ND	1.74	1.63	1.51	MB95F214KPH-G-SNE2
32	1K	39	8-Ch., 8/10 Bit	48-LQFP	865-1076-ND	6.38	5.93	5.48	MB95F156JPMT-GE1
60	2K	52	12-Ch., 8/10 Bit	64-LQFP	865-1070-ND	6.55	6.03	5.77	MB95F108AJWPMC-GE1
	2K	37	8-Ch., 8/10 Bit	52-LQFP	865-1071-ND	6.75	6.27	5.79	MB95F118JWPMC-GE1
	2K	87	12-Ch., 8/10 Bit	100-QFP	865-1073-ND	8.05	7.41	7.09	MB95F128DPF-GE1
	2K	53	8-Ch., 8/10 Bit	64-LQFP	865-1078-ND	7.23	6.65	6.36	MB95F168JAPMC1-GE1
	2K	53	8-Ch., 8/10 Bit	64-LQFP	865-1079-ND	7.23	6.65	6.36	MB95F168JAPMC-GE1

(Continued)

Microcontrollers, Kits and Evaluation Board *(Cont.)*

ROM (KBytes)	RAM (Bytes)	I/O Ports	A/D Converter	Package	Digi-Key Part No.	Price Each 1	10	50	Fujitsu Part No.
64	2K	34	8-Ch., 8/10 Bit	48-LQFP	865-1080-ND	7.05	6.49	6.21	MB90F387PMT-GSE1
	2K	36	8-Ch., 8/10 Bit	48-LQFP	865-1081-ND	7.05	6.49	6.21	MB90F387SPMT-GSE1
	4K	45	—	64-LQFP	865-1090-ND	7.98	7.34	7.02	MB90F337PMC-GE1
128	4K	48	11-Ch., 8/10 Bit	64-LQFP	865-1092-ND	10.50	9.66	9.24	MB91F267APMC-GE1
256	16K	113	12-Ch., 8/10 Bit	144-LQFP	865-1093-ND	12.38	11.39	10.89	MB91F475PMC1-GE1
	16K	77	6-Ch., 8/10 Bit	100-LQFP	865-1097-ND	10.98	10.10	9.66	MB91F482PMC-GE1
288	12K	66	18-Ch., 10 Bit	80-LQFP	865-1082-ND	10.93	10.06	9.62	MB96F326RSBPMC-GSE2
	12K	51	15-Ch., 10 Bit	64-LQFP	865-1087-ND	10.03	9.23	8.83	MB96F356RSBPMC-GSE2
	16K	96	16-Ch., 10 Bit	120-LQFP	865-1088-ND	11.95	10.86	10.32	MB96F386RSBPMC-GSE2
416	16K	82	24-Ch., 10 Bit	100-LQFP	865-1084-ND	12.91	11.74	11.16	MB96F347RSBPMC-GSE2
	16K	96	16-Ch., 10 Bit	120-LQFP	865-1089-ND	12.54	11.40	10.83	MB96F387RSBPMC-GSE2
512	32K	113	12-Ch., 8/10 Bit	144-LQFP	865-1095-ND	11.99	10.90	10.36	MB91F479PMC1-GE1
	32K	77	10-Ch., 8/10 Bit	100-LQFP	865-1096-ND	12.48	11.48	10.98	MB91F487PMC-GE1
	48K	99	24-Ch., 10 Bit	120-LQFP	865-1099-ND	11.98	11.02	10.54	MB91F662PMC-GE1
544	24K	82	24-Ch., 10 Bit	100-LQFP	865-1085-ND	13.64	12.40	11.78	MB96F348HSBPMC-GSE2
	24K	82	24-Ch., 10 Bit	100-LQFP	865-1086-ND	14.52	13.20	12.54	MB96F348RSBPMC-GSE2
Starter Kits and Evaluation Board									
Bundle Consisting of Starter Kit SK-16FX-100PMC and On-Chip Debug Software EUROScope Lite 16FX					865-1100-ND	162.60	—	—	SK-16FX-EUROSCOPE-FMA
Starter Kit that Supports MB96330 Series					865-1101-ND	355.11	—	—	SK-16FX-144PMC-USB
Starter Kit F^2MC-16LX Series for MB90F387					865-1103-ND	49.88	—	—	CT-161-CD
Starter Kit for F^2MC-8FX, 3V					865-1105-ND	1091.25	—	—	MB2146-401-01A
Starter Kit for F^2MC-8FX, 5V					865-1106-ND	1091.25	—	—	MB2146-401-03A
Starter Kit for MB95200H/210H Series					865-1107-ND	150.00	—	—	MB2146-410A-01-E
Starter Kit for USB					865-1108-ND	200.00	—	—	USB-100
Evaluation Board for Fast Software Design Start Using Flash/CAN Microcontrollers in 100-QFP Package					865-1102-ND	375.00	—	—	CAN-100

NEW! Graphics Display Controller (GDC)

ARM926: • 16-bit data and instruction cache • 320MHz operation • 32-bit bus • ICE interface for emulation **2D/3D GDC:** • MB86296 GDC core • Alpha blending • Anti-aliasing (unweighed algorithm) • Texture mapping • Z-buffer (16-bit) • Polygon drawing • 8, 16 and 24 bpp color depths • Bit blt (multiple options) • Performance up to 500k polygon/sec and 75m pixel/sec • Dual display (RGB) • Dual capture (YUV) **Features:** • CAN (2 ports) • FlexRay • Media LB • ADC • DAC • SD card • USB (H and F) • IDE-66 • Flash/SRAM • UARTs • SPI • PWM • GPIOs

Description	Package	Digi-Key Part No.	Price Each 1	10	50	Fujitsu Part No.
IC SoC Graphic Controller Jade Series	484-BGA	865-1110-ND	36.00	34.00	32.00	MB86R01PB-GSE1

Network Development Kits and Modules

Description	Digi-Key Part No.	Price Each	Netburner Part No.
Development Kit - Serial	528-1000-ND	149.00	NNDK-SB72-KIT
Development Kit - Network for MOD5272	528-1001-ND	299.00	NNDK-MOD5272-KIT
10/100 Ethernet Module	528-1008-ND◆	139.00	MOD5272-100IR
Development Kit - Network for MOD5282	528-1002-ND	299.00	NNDK-MOD5282-KIT
Serial - Ethernet Board	528-1003-ND◆	156.13	SB72-300CR

◆ RoHS Compliant

NetBurner SB72 is designed for applications that require a high performance/low cost 10/100 Ethernet interface to serial devices. The SB72 come preloaded with software to translate serial and Ethernet data, and is configurable through any web browser. The SB72 application code can be customized to any specific application requirements with a network development kit.

NetBurner MOD5272 core module (with Coldfire Processor from Freescale) is a device containing everything needed for design engineers to add network control and to monitor a company's communications assets. The module solves the problem of network-enabling devices with 10/100 Ethernet, including those requiring digital, analog and serial control.

Kit Includes: • Development board • Adapter board • CD-ROM with software (source code, development tools, manuals) • Straight through and crossover network cables • 12V power supply

inDART Series and Starter Kits

inDART SERIES: They are a powerful entry-level tool for Freescale Semiconductor, Inc. (Formerly Motorola SPS) MCU-based systems. InDART takes advantage of Metroworks CodeWarrior Integrated Development environment and the ISP (In-System Programming) feature to program the flash memory of the Freescale family of MCUs. InDART provides you with everything you need to download (program), in-circuit emulate and debug end-user code. Full speed program execution allows you to perform hardware and software testing in real-time. **Features:** • Low cost and easy to use kits • ISP/ICP programming • USB interface • In-circuit debugging **Kit Includes:** • inDART board and demo board with prototyping area • USB Cable • Software CodeWarrior CD and Softec System CD • Getting started guide

STARTER KITS: These starter kits are entry-level tools which allow you to get familiar with the different Freescale Semiconductor, Inc. (formerly Motorola SPS) microcontrollers. These kits along with the included CodeWarrior software allow for easy write, compile, download, in-circuit emulation and debug of user code. Includes a prototyping area to develop your own small applications. **Features:** • Low cost and easy to use kits • Full-speed program execution for hardware and software testing • In-circuit debug and emulation • Serial interface **Kit Includes:** • Evaluation board with prototyping area • Starter guide • Serial cable

Devices Supported	Digi-Key Part No.	Price Each	SofTec Part No.
HC08			
MC68HC908GRxx, MC68HC908GZxx	520-1002-ND	261.63	INDART-HC08/GZ
MC68HC908GZ32, 48, 60	520-1003-ND	261.63	INDART-HC08/GZ64
MC68HC908JKxx	520-1004-ND	261.63	INDART-HC08/JK
MC68HC908JLxx	520-1005-ND	261.63	INDART-HC08/JL
HCS08			
MC9S08RG60	520-1029-ND	261.63	INDART-HCS08/RG60
HCS12			
MC9S12C32	520-1011-ND	436.63	INDART-HCS12/C32
MC9S12DP256	520-1012-ND	499.00	INDART-HCS12/DP256
MC9S12E128	520-1013-ND	436.63	INDART-HCS12/E128
Starter Kits			
MC9S08GB60	520-1014-ND	86.63	PK-HCS08GB60

ST5 and ST7 Development Kits

The easy-to-use inDART series development kits are powerful entry-level tools for ST5 and ST7 based systems. These kits give you the ability to write, compile, download and in-circuit emulate and debug your code. Supports ISP (in-system programming) to program the flash on the target MCU.

Features:

• Low cost and easy to use • ISP/ICP programming • USB Interface • In-circuit debug

Kit Includes:

• inDART board, Demo board, Starter guide, CodeWarrior, STVD7 (ST Visual Debug) and DataBlaze software

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST72C1xx, 2xx Design Kit	520-1024-ND	217.88	INDART-ST72C254

ST7 Tools

IPL-ST7: This Dynamic Link Library includes all low-level functions that allow users to set up and perform commands and functions from the DataBlaze user interface within their own windows application

PK-ST7FLITE2: Entry level tool which allows you to get started with the ST7FLITE2 MCU. **Features:** • Real-time code execution • In-circuit debugging • In-system programming and debugging • Demo area • Prototyping area **Kit Includes:** • Evaluation board • USB cable • STVD7, CodeWarrior, and Cosmic C Software • "Quickstart" poster • User's manual

Description	Digi-Key Part No.	Price Each	SofTec Part No.
Programming Library for ST7	520-1026-ND	315.00	IPL-ST7
ST7FLITE2 Starter Kit	520-1030-ND	86.63	PK-ST7FLITE2

HC705 Family — 8-Bit

Features: • 68HC705 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • 8- bit accumulator • 8-bit index register • 16-bit stack pointer • On-chip oscillator • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • Available SPI, SCI or SIOP • Eight addressing modes

RAM (Bytes)	EPROM/ OTP (Bytes)	I/O	A/D	Timer	Serial	COP	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
176	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	Y	3.3, 5.0	2.1	-40 ~ 125	28-PDIP	MC705P6AMPE-ND◆	5.19	4.67	4.26	MC705P6AMPE
	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	Y	3.3, 5.0	2.1	-40 ~ 85	28-DIP	MC705P6ACPE-ND◆	5.29	4.73	4.26	MC705P6ACPE
304	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	Y	3.3, 5.0	4.0	-40 ~ 85	40-DIP	MC705C8ACPE-ND◆	12.08	10.87	9.91	MC705C8ACPE
	8K + 8K	31	—	2-Ch.	SCI, SPI	Y	3.3, 5.0	2.1	-40 ~ 85	42-SDIP	MC68HC705C8AB-ND	9.90	8.92	8.12	MC68HC705C8AB
352	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	Y	3.3, 5.0	2.1	-40 ~ 85	40-DIP	MC705C9ACPE-ND◆	10.94	9.95	9.21	MC705C9ACPE

◆ ***RoHS Compliant***

HC711 Family — 8-Bit

RoHS COMPLIANT

Features: • 68HC11 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	EPROM/OTP (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
192	—	4K	16-Bit, RTI	32	—	5.0	2.0	-40 ~ 105	44-PLCC	MC68HC711D3VFNE2-ND	10.85	9.87	9.13	MC68HC711D3VFNE2
	—	4K	16-Bit	32	—	5.0	2.0	-40 ~ 85	44-PLCC	MC711D3CFNE2RTR-ND‡		3348.45/450		MC711D3CFNE2R
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC711E9CFNE2RCT-ND§	22.54	20.58	19.11	MC711E9CFNE2R
	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC711E9CFNE2RTR-ND‡		5618.70/450		MC711E9CFNE2R
	512	32K	16-Bit	38	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	52-PLCC	MC68HC711E9CFNE2-ND	21.30	19.36	17.91	MC68HC711E9CFNE2
768	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68711E20CFNE2-ND	27.68	25.61	23.53	MC68711E20CFNE2

§ Cut Tape ‡ Tape and Reel

HC11 Family — 8-Bit

RoHS COMPLIANT

Features: • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	PWM	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
768	640	4-Ch., 8-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	80-QFP	MC68L11K1FUE2-ND	17.57	16.25	14.94	MC68L11K1FUE2

M68HC908 Family — 8-Bit

The MC68HC08 Family is a low cost, high performance, Complex Instruction Set Computer (CISC) with a Von Neumann architecture.

Features: • Enhanced HC05 Programming Model • Extensive loop control functions • 16 Addressing modes • 16-bit Index Register and Stack Pointer • Memory to memory data transfers • Object-code compatible with Freescale's 68HC05 architecture for easy migration • Designed to allow efficient, compact modular coding in assembly or C with full 16-bit Stack Pointer and stack relative addressing • Efficient instruction set with multiply and divide that is easy to learn and use

Memory: • In-application, In-circuit Re-Programmable Flash Memory (1.5K to 16K Bytes) • 128 to 512 Bytes of random access memory (RAM) **Peripherals:** • Two/Four-Channel, 16-bit Timer with selectable input capture, output compare or pulse width modulation (PWM) • Internal Clock Oscillator reduces board space and system costs by eliminating external components • Flexible I/O allows direct drive of LED and other circuits to eliminate external drivers and help reduce system costs • System Protection features, including Watchdog Timer and On-chip Low Voltage Detect/Reset to help reduce cost and increase reliability

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
128	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT1CPE-ND◆	2.17	1.96	1.75	MC68HC908QT1CPE
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 105	8-DIP	MC68HC908QT1VPE-ND◆	2.29	2.08	1.85	MC68HC908QT1VPE
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT1CDWE-ND◆	2.17	1.96	1.75	MCHC908QT1CDWE
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT1CPE-ND◆	2.17	1.96	1.75	MC68HC908QT1CPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	8-SOIC	MCHC908QT1VDWE-ND◆	1.87	1.70	1.51	MCHC908QT1VDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT2CPE-ND◆	2.60	2.36	2.10	MC68HC908QT2CPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT2CDWE-ND◆	2.60	2.36	2.10	MCHC908QT2CDWE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY1CPE-ND◆	2.45	2.22	1.98	MC68HC908QY1CPE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 105	16-DIP	MC68HC908QY1VPE-ND◆	2.57	2.33	2.08	MC68HC908QY1VPE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCHC908QY1CDWE-ND◆	2.45	2.22	1.98	MCHC908QY1CDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	16-SOIC	MCHC908QY1MDWE-ND◆	2.20	1.99	1.78	MCHC908QY1MDWE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY1CDTE-ND◆	2.73	2.47	2.20	MC68HC908QY1CDTE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 105	16-TSSOP	MC68HC908QY1VDTE-ND◆	2.33	2.11	1.88	MC68HC908QY1VDTE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY2CPE-ND◆	2.88	2.61	2.33	MC68HC908QY2CPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-DIP	MC68HC908QY2MPE-ND◆	2.86	2.55	2.30	MC68HC908QY2MPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCL908QY2CDWE-ND◆	2.35	2.13	1.90	MCL908QY2CDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDIP	MCL908QY2CDTE-ND◆	2.50	2.27	2.02	MCL908QY2CDTE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC68HC908QY2MDTE-ND◆	2.50	2.23	2.01	MC68HC908QY2MDTE
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QL3CDWE-ND◆	4.10	3.67	3.30	MC908QL3CDWE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

M68HC908 Family — 8-Bit *(Cont.)*

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
										1	10	25	
128	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC908QL3MDTE-ND◆	4.76	4.26	3.83	MC908QL3MDTE
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	16-TSSOP	MC908QL3VDTE-ND◆	4.53	4.05	3.65	MC908QL3VDTE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT4CPE-ND◆	3.07	2.78	2.48	MC68HC908QT4CPE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT4CDWE-ND◆	3.07	2.78	2.48	MCHC908QT4CDWE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8.0	-40 ~ 105	8-SOIC	MCHC908QT4VDWE-ND◆	2.91	2.60	2.34	MCHC908QT4VDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY4CPE-ND◆	3.39	3.03	2.73	MC68HC908QY4CPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-DIP	MC68HC908QY4MPE-ND◆	3.72	3.33	3.00	MC68HC908QY4MPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	16-DIP	MC68HC908QY4VPE-ND◆	3.56	3.18	2.86	MC68HC908QY4VPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCHC908QY4CDWE-ND◆	3.39	3.03	2.73	MCHC908QY4CDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	16-SOIC	MCHC908QY4MDWE-ND◆	3.72	3.33	3.00	MCHC908QY4MDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDIP	MC908QY4MDWERCT-ND◆§	3.46	3.12	2.83	MC908QY4MDWER
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDIP	MC908QY4MDWERTR-ND◆‡	1664.00/1,000			MC908QY4MDWER
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4CDTE-ND◆	3.72	3.33	3.00	MC68HC908QY4CDTE
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-SOIC	MC908QL4MDWE-ND◆	5.02	4.48	4.04	MC908QL4MDWE
	4K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC908QB4CDTE-ND◆	2.72	2.57	2.42	MC908QB4CDTE
	4K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908QB4CDWE-ND◆	2.54	2.40	2.26	MC908QB4CDWE
	4K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC908QB4CPE-ND◆	3.67	3.28	2.95	MC908QB4CPE
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4MDTE-ND◆	4.09	3.65	3.29	MC68HC908QY4MDTE
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4VDTE-ND◆	3.92	3.50	3.15	MC68HC908QY4VDTE
256	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC908QB8CDTE-ND◆	3.06	2.89	2.72	MC908QB8CDTE
	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908QB8CDWE-ND◆	2.88	2.72	2.56	MC908QB8CDWE
	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC908QB8CPE-ND◆	4.14	3.70	3.33	MC908QB8CPE
	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QB8CDWERCT-ND◆§	3.84	3.43	3.22	MC908QB8CDWER
	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QB8CDWERTR-ND◆‡	1680.00/1,000			MC908QB8CDWER
512	16K	2-Ch., 16-Bit	23	12-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL16CDWE-ND◆	3.13	2.96	2.79	MC908JL16CDWE
	16K	2-Ch., 16-Bit	23	12 Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-DIP	MC908JL16CPE-ND◆	3.35	3.17	2.98	MC908JL16CPE
	16K	2-Ch., 16-Bit	26	13 Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJE-ND◆	3.22	3.05	2.87	MC908JL16CFJE
	16K	2-Ch., 16-Bit	26	13-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	32-SDIP	MC908JL16CSPE-ND◆	3.44	3.25	3.06	MC908JL16CSPE
	16K	4-Ch., 16-Bit	14	10-Ch., 10-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QC16CDXE-ND◆	3.69	3.49	3.28	MC908QC16CDXE
Accessories													
Demo Board for MC908JL16									DEMO908JL16E-ND◆	50.00	—	—	DEMO908JL16E
Demo Board for MC908QC16									DEMO908QC16-ND	75.00	—	—	DEMO908QC16
Evaluation Board for MC908QL4									M68EVB908QL4-ND	205.15	—	—	M68EVB908QL4

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

HC908 Family — 8-Bit

Features: • 68HC08 CPU with Flash memory • Fully upward code compatible with the 68HC05 family for easy migration • Fully static design allowing operation down to DC • 16-bit index register • 16-bit stack pointer • 1, 2, 4 or 6 channel 16-bit timers with built in prescalers • COP watchdog protection • Low-power STOP and WAIT modes • Available USB, SPI, SCI, CAN2, I^{2}C and ESCI • Available A/D converter • 16 addressing modes • LVI (Low Voltage Inhibit) supply voltage monitor • 16/8 divide • 8 x 8 multiply • 68HC908AZ additional feature: MSCAN (Motorola Scalable Controller Area Network) interface conforms to CAN 2.0B

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Tempera-ture (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
											1	10	25	
1.5K	128	15	10-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	20-SOIC	MC908JK1ECDWE-ND◆	3.19	2.85	2.57	MC908JK1ECDWE
	128	6	—	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	8-SOIC	MC908QT1ACDWE-ND◆	1.36	1.29	1.21	MC908QT1ACDWE
	128	6	—	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	8-DIP	MC908QT1ACPE-ND◆	1.36	1.29	1.21	MC908QT1ACPE
	128	6	6-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	8-SOIC	MC908QT2ACDWE-ND◆	1.63	1.55	1.46	MC908QT2ACDWE
	128	6	6-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	8-DFN	MC908QT2ACFQE-ND◆	1.83	1.73	1.63	MC908QT2ACFQE
	128	6	6-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	8-DIP	MC908QT2ACPE-ND◆	1.63	1.55	1.46	MC908QT2ACPE
	128	16	—	1-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	16-DIP	MC908QY1ACPE-ND◆	1.54	1.45	1.37	MC908QY1ACPE
	128	14	6-Ch., 10-Bit	1-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	16-TSSOP	MC908QY2ACDTE-ND◆	1.92	1.82	1.72	MC908QY2ACDTE
2K	192	13	4-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	16-SOICW	MC908KX2CDWE-ND◆	3.79	3.58	3.37	MC908KX2CDWE
	192	13	4-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 125	16-SOIC	MC908KX2MDWE-ND◆	4.18	3.95	3.72	MC908KX2MDWE
4K	128	15	10-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	20-DIP	MCHC908JK3ECPE-ND◆	3.64	3.25	2.93	MCHC908JK3ECPE
	128	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	20-DIP	MCR908JK3ECPE-ND◆	3.64	3.25	2.93	MCR908JK3ECPE
	128	15	10-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	20-SOIC	MC908JK3ECDWE-ND◆	3.64	3.25	2.93	MC908JK3ECDWE
	128	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	28-SOIC	MC908JL3ECDWE-ND◆	4.34	3.88	3.49	MC908JL3ECDWE
	128	23	10-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	48-LQFP	MC908JL3ECFAE-ND◆	3.55	3.17	2.86	MC908JL3ECFAE
	128	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	28-DIP	MC908JL3ECPE-ND◆	4.34	3.88	3.49	MC908JL3ECPE
	128	6	6-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	8-DFN	MC908QT4ACFQE-ND◆	2.12	2.01	1.89	MC908QT4ACFQE
	128	6	6-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	8-DIP	MC908QT4ACPE-ND◆	1.92	1.82	1.72	MC908QT4ACPE
	128	14	6-Ch., 10-Bit	1-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	16-SOIC	MC908QY4ACDWE-ND◆	2.35	2.23	2.10	MC908QY4ACDWE
	128	14	6-Ch., 10-Bit	1-Ch.	SPI	2.7 ~ 5.5	8.2	-40 ~ 85	16-DIP	MC908QY4ACPE-ND◆	2.35	2.23	2.10	MC908QY4ACPE
	256	26	—	2-Ch.	SCI	—	8.0	-40 ~ 85	20-DIP	MC908KK3ECPE-ND◆	3.02	2.70	2.43	MC908KK3ECPE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
											1	10	25	
4K	256	26	12-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 3.3	8.0	-40 ~ 85	28-SOIC	MC908KL3ECDWE-ND◆	3.85	3.44	3.10	MC908KL3ECDWE
	384	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	3 ~ 5.5	8.2	-40 ~ 85	32-LQFP	MC68HC908GR4CFAE-ND◆	6.30	5.63	5.07	MC68HC908GR4CFAE
8K	192	13	4-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908KX8CDWE-ND◆	5.25	4.96	4.67	MC908KX8CDWE
	192	13	4-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 125	16-SOICW	MC908KX8MDWE-ND◆	5.83	5.51	5.19	MC908KX8MDWE
	256	37	—	2-Ch.	USB1.1	4 ~ 5.5	6.0	-40 ~ 85	20-DIP	MC68HC908JB8JPE-ND◆	2.93	2.78	2.61	MC68HC908JB8JPE
	256	21	—	2-Ch.	USB1.1	4 ~ 5.5	3.0	-40 ~ 85	28-SOIC	MC908JB8ADWE-ND◆	2.88	2.72	2.56	MC908JB8ADWE
	256	37	—	2-Ch.	USB1.1	4 ~ 5.5	3.0	-40 ~ 85	44-QFP	MC908JB8FBE-ND◆	3.33	3.15	2.96	MC908JB8FBE
	256	13	—	1-Ch.	USB1.1	4 ~ 5.5	3.0	-40 ~ 85	20-SOIC	MC908JB8JDWE-ND◆	2.86	2.71	2.55	MC908JB8JDWE
	256	15	10-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	20-SOIC	MC908JK8CDWE-ND◆	4.18	3.95	3.72	MC908JK8CDWE
	256	15	10-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	28-DIP	MCHC908JK8CPE-ND◆	4.18	3.95	3.72	MCHC908JK8CPE
	256	23	10-Ch., 8-Bit	2-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWE-ND◆	3.11	2.95	2.77	MC908JL8CDWE
	256	23	10-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWERCT-ND◆§	4.14	3.70	3.48	MC908JL8CDWER
	256	23	10-Ch., 8-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWERTR-ND◆‡		1810.00/1,000		MC908JL8CDWER
	256	24	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 105	32-LQFP	MC908EY8AVFJE-ND◆	5.11	4.83	4.55	MC908EY8AVFJE
	256	12	7-Ch., 10-Bit	2-Ch.	SCI	4.5 ~ 5.5	8.0	-40 ~ 85	28-DIP	MC908MR8CPE-ND◆	7.00	6.62	6.23	MC908MR8CPE
	256	16	7-Ch., 10-Bit	2-Ch.	SCI	4.5 ~ 5.5	8.0	-40 ~ 125	32-LQFP	MCHC908MR8MFAE-ND◆	7.70	7.28	6.85	MCHC908MR8MFAE
	256	16	7-Ch., 10-Bit	2-Ch.	SCI	4.5 ~ 5.5	8.0	-40 ~ 105	32-LQFP	MCHC908MR8VFAE-ND◆	7.34	6.94	6.53	MCHC908MR8VFAE
	256	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	28-DIP	MC908JL8CPE-ND◆	3.11	2.95	2.77	MC908JL8CPE
	256	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	32-DIP	MC68HC908JL8CSPE-ND◆	3.11	2.95	2.77	MC68HC908JL8CSPE
	256	14	10-Ch., 10-Bit	4-Ch.	SPI, SCI	2.7 ~ 5.5	8.0	-40 ~ 125	16-DIP	MC908QB8MPE-ND◆	4.56	4.08	3.67	MC908QB8MPE
	256	16	4-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QY8CDWE-ND◆	2.55	2.41	2.27	MC908QY8CDWE
	384	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	28-DIP	MC908GR8CPE-ND◆	8.25	7.43	6.77	MC908GR8CPE
	384	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MCHC908GR8CFAE-ND◆	8.28	7.45	6.79	MCHC908GR8CFAE
	384	26	10-Ch., 10-Bit	1-Ch.	SPI, SCI	3 ~ 5.5	8.0	-40 ~ 85	28-TSSOP	MC908QC8CDRE-ND◆	3.31	3.13	2.95	MC908QC8CDRE
	384	14	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	16-TSSOP	MC908QC8CDTE-ND◆	3.24	3.06	2.88	MC908QC8CDTE
	384	14	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QC8CDXE-ND◆	3.20	3.03	2.85	MC908QC8CDXE
	384	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908QC8CDZE-ND◆	3.26	3.08	2.90	MC908QC8CDZE
	384	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 125	28-TSSOP	MC908QC8MDRE-ND◆	3.64	3.44	3.24	MC908QC8MDRE
	384	18	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 125	20-TSSOP	MC908QC8MDSE-ND◆	3.60	3.40	3.20	MC908QC8MDSE
	512	36	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908GT8CFBE-ND◆	8.75	7.88	7.18	MC908GT8CFBE
	1K	30	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	42-SDIP	MC908AP8CBE-ND◆	6.25	5.63	5.13	MC908AP8CBE
	1K	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908AP8CFBE-ND◆	6.25	5.63	5.13	MC908AP8CFBE
	1K	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC68908GZ8CFAE-ND◆	7.00	6.62	6.23	MC68908GZ8CFAE
	1K	37	8-Ch., 10-Bit	2-Ch.	SPI, CAN2	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJE-ND◆	7.00	6.62	6.23	MC68908GZ8CFJE
	1K	21	8-Ch., 10-Bit	2-Ch.	SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJERCT-ND◆§	9.13	8.15	7.67	MC68908GZ8CFJER
	1K	21	8-Ch., 10-Bit	2-Ch.	SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJERTR-ND◆‡		7999.97/2,000		MC68908GZ8CFJER
	2K	39	6-Ch., 8-Bit	2-Ch.	USB, I2C	3 ~ 3.6	6.0	-40 ~ 85	64-QFP	MC908LD64IFUE-ND◆	10.21	9.64	9.08	MC908LD64IFUE
12K	384	21	—	2-Ch.	USB, SCI	4 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB12DWE-ND◆	3.78	3.38	3.04	MC908JB12DWE
	384	21	—	2-Ch.	USB, SCI	4 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB12JDWE-ND◆	4.17	3.73	3.36	MC908JB12JDWE
	512	33	14-Ch., 10-Bit	4-Ch.	I2C, SCI	4.5 ~ 5.5	8.0	-40 ~ 125	48-LQFP	MC908SR12MFAE-ND◆	9.02	8.12	7.40	MC908SR12MFAE
	512	32	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-LQFP	MC908LJ12CPBE-ND◆	8.10	7.65	7.20	MC908LJ12CPBE
	512	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-LQFP	MCL908LJ12CPBE-ND◆	8.55	7.70	7.01	MCL908LJ12CPBE
	512	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC68HC98LJ12CFUE-ND◆	8.10	7.65	7.20	MC68HC98LJ12CFUE
16K	384	21	—	2-Ch.	USB, SCI	4 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB16DWE-ND◆	3.55	3.35	3.16	MC908JB16DWE
	384	21	—	2-Ch.	USB, SCI	4 ~ 5.5	6.0	-40 ~ 85	32-LQFP	MC908JB16FAE-ND◆	3.58	3.39	3.19	MC908JB16FAE
	384	21	—	2-Ch.	USB, SCI	4 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB16JDWE-ND◆	3.51	3.32	3.12	MC908JB16JDWE
	512	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908EY16ACFJE-ND◆	7.69	7.26	6.84	MC908EY16ACFJE
	512	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 125	32-LQFP	MC908EY16AMFJE-ND◆	8.46	7.99	7.52	MC908EY16AMFJE
	512	36	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908GT16CFBE-ND◆	9.23	8.31	7.57	MC908GT16CFBE
	512	26	13-Ch., 10-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJERCT-ND◆§	4.28	3.83	3.60	MC908JL16CFJER
	512	26	13-Ch., 10-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJERTR-ND◆‡		3760.01/2,000		MC908JL16CFJER
	512	18	10-Ch., 10-Bit	1-Ch.	SPI, SCI	3 ~ 5.5	8.0	-40 ~ 85	20-TSSOP	MC908QC16CDSE-ND◆	3.82	3.61	3.40	MC908QC16CDSE
	512	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908QC16CDZE-ND◆	3.82	3.61	3.40	MC908QC16CDZE
	512	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 125	28-TSSOP	MC908QC16MDRE-ND◆	4.28	4.05	3.81	MC908QC16MDRE
	768	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908MR16CFUE-ND◆	8.75	8.27	7.78	MC908MR16CFUE
	768	37	9-Ch., 10-Bit	2-Ch.	SCI, SPI	4.5 ~ 5.5	8.2	-40 ~ 85	56-SDIP	MC908MR16CBE-ND◆	8.75	8.27	7.78	MC908MR16CBE
	768	44	10-Ch., 10-Bit	Dual 2-Ch.	IRSCI, SPI, I2C	4.5 ~ 5.5	8.0	-40 ~ 105	64-QFP	MC908MR16VFUE-ND◆	9.18	8.67	8.16	MC908MR16VFUE
	1K	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GR16CFJE-ND◆	7.78	7.35	6.92	MC68908GR16CFJE
	1K	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GR16ACFJE-ND◆	7.78	7.35	6.92	MC908GR16ACFJE
	1K	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GR16CFAE-ND◆	7.78	7.35	6.92	MC908GR16CFAE
	1K	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GR16ACFAE-ND◆	7.78	7.35	6.92	MC908GR16ACFAE
	1K	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908AP16CFBE-ND◆	6.88	6.19	5.64	MC908AP16CFBE
	1K	30	8-Ch., 10-Bit	2-Ch.	I2C, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	42-DIP	MC908AP16CBE-ND◆	6.88	6.19	5.64	MC908AP16CBE
	1K	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	-	8.0	-40 ~ 85	44-QFP	MC908GP16CFBE-ND◆	6.15	5.54	5.05	MC908GP16CFBE
	1K	21	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ16CFJE-ND◆	8.17	7.72	7.27	MC68908GZ16CFJE
	1K	21	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ16CFAE-ND◆	8.17	7.72	7.27	MC908GZ16CFAE
	1K	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI, SCI	3 ~ 5.5	8.0	-40 ~ 125	48-LQFP	MC908GZ16MFAE-ND◆	8.98	8.49	7.99	MC908GZ16MFAE
24K	768	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908LJ24CFUE-ND◆	9.52	9.00	8.47	MC908LJ24CFUE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Digi Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
											1	10	25	
24K	768	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-LQFP	MC908LJ24CPBE-ND◆	9.52	9.00	8.47	MC908LJ24CPBE
	768	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	80-LQFP	MC908LJ24CPKE-ND◆	10.05	9.05	8.24	MC908LJ24CPKE
	768	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908LK24CFUE-ND◆	8.95	8.45	7.96	MC908LK24CFUE
	768	40	6-Ch., 10-Bit	Dual 2-Ch.	I2C, SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-LQFP	MC908LK24CPBE-ND◆	8.95	8.45	7.96	MC908LK24CPBE
	768	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	80-QFP	MCHC908LK24CFQE-ND◆	9.52	9.00	8.47	MCHC908LK24CFQE
32K	512	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908GP32CFBE-ND◆	12.10	11.00	10.18	MC908GP32CFBE
	512	30	8-Ch., 8-Bit	2-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	40-DIP	MC908GP32CPE-ND◆	12.10	11.00	10.18	MC908GP32CPE
	512	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	2.7 ~ 5.5	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERCT-ND◆§	12.93	11.81	10.96	MC908GP32CFBER
	512	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	2.7 ~ 5.5	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERTR-ND◆‡		5796.00/750		MC908GP32CFBER
	512	31	8-Ch., 8-Bit	4-Ch.	SCI, SPI	2.7 ~ 5.5	8.0	-40 ~ 85	42-SDIP	MC908GP32CBE-ND◆	12.10	11.00	10.18	MC908GP32CBE
	768	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908MR32CFUE-ND◆	11.75	11.11	10.45	MC908MR32CFUE
	768	36	10-Ch., 10-Bit	6-Ch.	SCI, SPI	4.5 ~ 5.5	8.2	-40 ~ 85	56-SDIP	MC908MR32CBE-ND◆	11.75	11.11	10.45	MC908MR32CBE
	768	36	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 105	56-SDIP	MC908MR32VBE-ND◆	12.35	11.67	10.98	MC908MR32VBE
	768	44	10-Ch., 10-Bit	Dual 2-Ch.	IRSCI, SPI, I2C	4.5 ~ 5.5	8.0	-40 ~ 105	64-QFP	MC908MR32VFUE-ND◆	12.35	11.67	10.98	MC908MR32VFUE
	1K	40	15-Ch., 8-Bit	6-Ch.	J1850, SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	52-PLCC	MC908AS32ACFNE-ND◆	10.76	9.79	9.05	MC908AS32ACFNE
	1K	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908AB32CFUE-ND◆	13.09	11.90	11.01	MC908AB32CFUE
	1K	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERCT-ND◆§	11.53	10.53	9.78	MC908AB32CFUER
	1K	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	4.5 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERTR-ND◆‡		6291.00/750		MC908AB32CFUER
	1K	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ32ACFUE-ND◆	13.09	11.90	11.01	MC908AZ32ACFUE
	1K	29	—	2-Ch.	USB, SPI	3.5 ~ 5.5	8.0	0 ~ 70	48-QFN	MCHC908JW32FC-ND◆	6.12	5.78	5.44	MCHC908JW32FC
	1.5K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GR32ACFAE-ND◆	8.16	7.72	7.26	MC908GR32ACFAE
	1.5K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GR32ACFJE-ND◆	8.16	7.72	7.26	MC908GR32ACFJE
	1.5K	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ32CFJE-ND◆	8.75	8.27	7.78	MC908GZ32CFJE
	2K	30	8-Ch., 10-Bit	2-Ch.	I2C, 2-SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	42-DIP	MC908AP32CBE-ND◆	8.75	7.88	7.18	MC908AP32CBE
	2K	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908AP32CFBE-ND◆	8.75	7.88	7.18	MC908AP32CFBE
	2K	32	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	44-LQFP	MC908AP32CFAE-ND◆	8.75	7.88	7.18	MC908AP32CFAE
48K	1K	32	6-Ch., 8-Bit	2-Ch.	—	4.5 ~ 5.5	6.0	-40 ~ 85	42-SDIP	MC908BD48IBE-ND◆	7.20	6.80	6.40	MC908BD48IBE
	1.5K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GR48ACFAE-ND◆	9.14	8.63	8.13	MC908GR48ACFAE
	1.5K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GR48ACFJE-ND◆	9.14	8.63	8.13	MC908GR48ACFJE
	1.5K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GR48ACFUE-ND◆	9.43	8.91	8.39	MC908GR48ACFUE
	1.5K	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ48CFAE-ND◆	9.72	9.18	8.64	MC908GZ48CFAE
60K	2K	42	15-Ch., 8-Bit	6-Ch.	SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	52-PLCC	MC908AS60ACFNE-ND◆	19.25	17.50	16.19	MC908AS60ACFNE
	2K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUE-ND◆	19.25	17.50	16.19	MC908AZ60ACFUE
	2K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 125	64-QFP	MC908AZ60AMFUE-ND◆	17.41	15.84	14.65	MC908AZ60AMFUE
	2K	52	15-Ch., 8-Bit	6-Ch.	SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AS60ACFUE-ND◆	19.25	17.50	16.19	MC908AS60ACFUE
	2K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GR60ACFAE-ND◆	10.11	9.55	8.99	MC908GR60ACFAE
	2K	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GR60ACFJE-ND◆	10.11	9.55	8.99	MC908GR60ACFJE
	2K	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	3 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ60CFAE-ND◆	10.69	10.10	9.51	MC908GZ60CFAE
	2K	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	3 ~ 5.5	8.0	-40 ~ 125	48-LQFP	MC908GZ60MFAE-ND◆	11.75	11.11	10.45	MC908GZ60MFAE
	2K	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	3 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ60CFJE-ND◆	10.69	10.10	9.51	MC908GZ60CFJE
	2K	53	20-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	3 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GZ60CFUE-ND◆	11.03	10.43	9.81	MC908GZ60CFUE
	2K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERCT-ND◆§	16.83	15.37	14.27	MC908AZ60ACFUER
	2K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERTR-ND◆‡		7876.50/750		MC908AZ60ACFUER
	2K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUR2CT-ND§	17.66	16.13	14.98	MC908AZ60AVFUR2
	2K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	4.5 ~ 5.5	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUE-ND◆	20.22	18.38	17.01	MC908AZ60AVFUE
64K	2K	30	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	42-SDIP	MC908AP64CBE-ND◆	11.25	10.13	9.23	MC908AP64CBE
	2K	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	44-QFP	MC908AP64CFBE-ND◆	11.25	10.13	9.23	MC908AP64CFBE
	2K	32	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.75 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908AP64CFAE-ND◆	11.25	10.13	9.23	MC908AP64CFAE
RS08KA — RoHS Compliant														
1K	63	2	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	6-DFN	MC9RS08KA1CDB-ND	.76	.72	.68	MC9RS08KA1CDB
	63	4	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-PDIP	MC9RS08KA1CPC-ND	.80	.76	.71	MC9RS08KA1CPC
	63	4	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-SOIC	MC9RS08KA1CSC-ND	.76	.72	.68	MC9RS08KA1CSC
	63	4	—	1-Ch.	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-SOIC	MC9RS08KA1CSCRCT-ND§	.87	.78	.73	MC9RS08KA1CSCR
	63	4	—	1-Ch.	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-SOIC	MC9RS08KA1CSCRTR-ND‡		1107.00/2,500		MC9RS08KA1CSCR
2K	63	2	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	6-DFN	MC9RS08KA2CDB-ND	.80	.76	.71	MC9RS08KA2CDB
	63	4	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-PDIP	MC9RS08KA2CPC-ND	.84	.79	.75	MC9RS08KA2CPC
	63	4	—	1-Ch. (8-Bit)	—	1.8 ~ 5.5	10.0	-40 ~ 85	8-SOIC	MC9RS08KA2CSC-ND	.80	.76	.71	MC9RS08KA2CSC
4K	128	14	8-Ch., 10-Bit	1-Ch.	I2C	1.8 ~ 5.5	10.0	-40 ~ 85	16-SOIC	MC9RS08KA4CWG-ND	1.26	1.20	1.13	MC9RS08KA4CWG
	128	18	12-Ch., 10-Bit	1-Ch.	I2C	1.8 ~ 5.5	10.0	-40 ~ 85	20-SOIC	MC9RS08KA4CWJ-ND	1.34	1.27	1.20	MC9RS08KA4CWJ
8K	254	14	8-Ch., 10-Bit	1-Ch.	I2C	1.8 ~ 5.5	10.0	-40 ~ 85	16-SOIC	MC9RS08KA8CWG-ND	1.36	1.29	1.21	MC9RS08KA8CWG
MC9S08AC — RoHS Compliant														
8K	700	34	8-Ch., 10-Bit	4-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC8CFGE-ND	3.15	2.98	2.80	MC9S08AC8CFGE
	700	32	8-Ch., 10-Bit	4-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	42-DIP	MC9S08AC8MBE-ND ***NEW!***	3.37	3.18	3.00	MC9S08AC8MBE
16K	1K	38	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AC16CFDE-ND	3.48	3.29	3.10	MC9S08AC16CFDE
	1K	34	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC16CFGE-ND	3.38	3.20	3.01	MC9S08AC16CFGE
	1K	22	6-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08AC16CFJE-ND	3.19	3.02	2.84	MC9S08AC16CFJE
	1K	32	6-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	42-DIP	MC9S08AC16CBE-ND ***NEW!***	3.29	3.12	2.93	MC9S08AC16CBE
	1K	32	6-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	42-DIP	MC9S08AC16MBE-ND ***NEW!***	3.62	3.42	3.22	MC9S08AC16MBE
	1K	22	6-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	32-LQFP	MC9S08AC16MFJE-ND	3.50	3.31	3.12	MC9S08AC16MFJE
32K	2K	38	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AC32CFDE-ND	3.95	3.73	3.51	MC9S08AC32CFDE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.		Price Each		Freescale Part No.
											1	10	25	
32K	2K	34	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC32CFGE-ND	3.85	3.64	3.43	MC9S08AC32CFGE
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AC32CFUE-ND	4.22	3.99	3.75	MC9S08AC32CFUE
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AC32CPUE-ND	4.30	4.06	3.82	MC9S08AC32CPUE
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AC32CPUERCT-ND§ ***NEW!***	4.98	4.45	4.19	MC9S08AC32CPUER
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AC32CPUERTR-ND‡ ***NEW!***	3839.99/1,500			MC9S08AC32CPUER
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	64-LQFP	MC9S08AC32MPUERCT-ND§ ***NEW!***	5.43	4.85	4.56	MC9S08AC32MPUER
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	64-LQFP	MC9S08AC32MPUERTR-ND‡ ***NEW!***	4200.00/1,500			MC9S08AC32MPUER
48K	2K	34	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC8MBE-ND	4.00	3.79	3.56	MC9S08AC8MBE
	2K	54	8-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AC48CFUE-ND	4.37	4.14	3.89	MC9S08AC48CFUE
60K	2K	34	8-Ch., 10-Bit	4-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC60CFGE-ND	4.14	3.92	3.69	MC9S08AC60CFGE
	2K	22	6-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08AC60CFJE-ND	4.04	3.82	3.60	MC9S08AC60CFJE
	2K	54	6-Ch., 10-Bit	6-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AC60CFUE-ND	4.63	4.37	4.12	MC9S08AC60CFUE
	2K	54	16-Ch., 10-Bit	6-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AC60CPUE-ND	4.53	4.28	4.03	MC9S08AC60CPUE
128K	8K	34	16-Ch., 10-Bit	2-Ch., 6-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AC128CFGE-ND	5.46	5.16	4.86	MC9S08AC128CFGE
	8K	54	16-Ch., 10-Bit	2-Ch., 6-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AC128CFUE-ND	5.85	5.53	5.21	MC9S08AC128CFUE
	8K	71	16-Ch., 10-Bit	2-Ch., 6-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	80-LQFP	MC9S08AC128CLKE-ND	6.05	5.71	5.38	MC9S08AC128CLKE
MC9S08JM — RoHS Compliant														
32K	2K	33	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	44-LQFP	MC9S08JM32CLD-ND	3.97	3.75	3.53	MC9S08JM32CLD
	2K	37	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	48-QFN	MC9S08JM32CGT-ND	4.00	3.79	3.56	MC9S08JM32CGT
	2K	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	64-QFP	MC9S08JM32CQH-ND	4.12	3.90	3.67	MC9S08JM32CQH
	2K	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	64-LQFP	MC9S08JM32CLH-ND	4.12	3.90	3.67	MC9S08JM32CLH
60K	4K	33	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	44-LQFP	MC9S08JM60CLD-ND	5.48	5.18	4.88	MC9S08JM60CLD
	4K	37	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	48-QFN	MC9S08JM60CGT-ND	5.60	5.29	4.98	MC9S08JM60CGT
	4K	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	64-QFP	MC9S08JM60CQH-ND	5.77	5.46	5.14	MC9S08JM60CQH
	4K	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	64-LQFP	MC9S08JM60CLH-ND	5.77	5.46	5.14	MC9S08JM60CLH
NEW! MC9S08LG — RoHS Compliant NEW!														
18K	2K	39	9-Ch.	2-Ch., 1-Ch.	SCI, SPI	-0.3 ~ 5.8	20.0	-40 ~ 85	48-LQFP	MC9S08LG16CLF-ND	3.32	3.14	2.96	MC9S08LG16CLF
	2K	53	12-Ch.	2-Ch., 1-Ch.	SCI, SPI	-0.3 ~ 5.8	20.0	-40 ~ 85	64-LQFP	MC9S08LG16CLH-ND	3.62	3.42	3.22	MC9S08LG16CLH
32K	2K	53	12-Ch.	2-Ch., 1-Ch.	SCI, SPI	-0.3 ~ 5.8	20.0	-40 ~ 85	64-LQFP	MC9S08LG32CLH-ND	4.04	3.82	3.60	MC9S08LG32CLH
	2K	69	16-Ch.	2-Ch., 1-Ch.	SCI, SPI	-0.3 ~ 5.8	20.0	-40 ~ 85	80-LQFP	MC9S08LG32CLK-ND	4.30	4.06	3.82	MC9S08LG32CLK
MC9S08LL — RoHS Compliant														
10K	2K	31	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	48-QFN	MC9S08LL8CGT-ND	3.21	3.03	2.86	MC9S08LL8CGT
	2K	31	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	48-LQFP	MC9S08LL8CLF-ND	3.21	3.03	2.86	MC9S08LL8CLF
16K	2K	38	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	48-QFN	MC9S08LL16CGT-ND	3.38	3.20	3.01	MC9S08LL16CGT
	2K	38	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	48-LQFP	MC9S08LL16CLF-ND	3.38	3.20	3.01	MC9S08LL16CLF
	2K	38	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	64-LQFP	MC9S08LL16CLH-ND	3.42	3.24	3.05	MC9S08LL16CLH
36K	4K	37	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08LL36CLH-ND ***NEW!***	4.20	3.97	3.74	MC9S08LL36CLH
64K	4K	37	8-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08LL64CLH-ND ***NEW!***	4.94	4.67	4.39	MC9S08LL64CLH
	4K	39	10-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	80-LQFP	MC9S08LL64CLK-ND ***NEW!***	5.13	4.85	4.57	MC9S08LL64CLK
Flexis™ MC9S08QE — RoHS Compliant														
4K	256	26	10-Ch., 12-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	32-LQFP	MC9S08QE4CLC-ND	2.20	2.08	1.96	MC9S08QE4CLC
	256	12	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-DIP	MC9S08QE4CPG-ND	2.00	1.90	1.78	MC9S08QE4CPG
	256	12	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QE4CTG-ND	2.00	1.90	1.78	MC9S08QE4CTG
	256	16	10-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	20-SOIC	MC9S08QE4CWJ-ND	2.08	1.97	1.85	MC9S08QE4CWJ
	256	22	10-Ch., 12-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	28-SOIC	MC9S08QE4CWL-ND	2.18	2.06	1.94	MC9S08QE4CWL
8K	512	26	10-Ch., 12-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	32-LQFP	MC9S08QE8CLC-ND	2.47	2.34	2.20	MC9S08QE8CLC
	512	12	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-DIP	MC9S08QE8CPG-ND	2.31	2.19	2.06	MC9S08QE8CPG
	512	12	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QE8CTG-ND	2.31	2.19	2.06	MC9S08QE8CTG
	512	16	10-Ch., 10-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	20-SOIC	MC9S08QE8CWJ-ND	2.39	2.26	2.13	MC9S08QE8CWJ
	512	22	10-Ch., 12-Bit	3-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	28-SOIC	MC9S08QE8CWL-ND	2.45	2.32	2.18	MC9S08QE8CWL
16K	1K	22	8-Ch., 12-Bit	8-Ch., 8-Bit	I2C, LIN, SCI, SPI	1.8 ~ 3.6	40.0	-40 ~ 85	28-TSSOP	S9S08SG16E1CTLRCT-ND§ ***NEW!***	3.33	2.98	2.80	S9S08SG16E1CTLR
	1K	22	8-Ch., 12-Bit	8-Ch., 8-Bit	I2C, LIN, SCI, SPI	1.8 ~ 3.6	40.0	-40 ~ 85	28-TSSOP	S9S08SG16E1CTLRTR-ND‡ ***NEW!***	4293.01/2,500			S9S08SG16E1CTLR
	1K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	48-QFN	MC9S08QE16CFT-ND	3.09	2.92	2.75	MC9S08QE16CFT
	1K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	32-LQFP	MC9S08QE16CLC-ND	2.97	2.81	2.65	MC9S08QE16CLC
	1K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	44-LQFP	MC9S08QE16CLD-ND	3.07	2.91	2.74	MC9S08QE16CLD
	1K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	28-SOIC	MC9S08QE16CWL-ND	2.92	2.76	2.60	MC9S08QE16CWL
32K	2K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	48-QFN	MC9S08QE32CFT-ND	3.69	3.49	3.29	MC9S08QE32CFT
	2K	80	8-Ch., 10-Bit	8-Ch., 16-Bit	I2C, SCI, SPI	1.8 ~ 3.6	32.0	-40 ~ 85	100-LQFP	S9S12HA32J0CLL-ND ***NEW!***	5.93	5.60	5.28	S9S12HA32J0CLL
	2K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	32-LQFP	MC9S08QE32CLC-ND	3.40	3.22	3.03	MC9S08QE32CLC
	2K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	44-LQFP	MC9S08QE32CLD-ND	3.48	3.29	3.10	MC9S08QE32CLD
	2K	40	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	28-SOIC	MC9S08QE32CWL-ND	3.30	3.13	2.94	MC9S08QE32CWL
	4K	39	8-Ch., 12 Bit	8-Ch., 10 Bit	I²C, SCI, SPI	1.8 ~ 3.6	40.0	-40 ~ 85	80-LQFP	MC9S08LL36CLK-ND ***NEW!***	6.33	5.65	5.09	MC9S08LL36CLK
64K	4K	26	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	32-LQFP	MC9S08QE64CLC-ND	4.49	4.25	4.00	MC9S08QE64CLC
	4K	54	22-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	64-LQFP	MC9S08QE64CLH-ND	5.13	4.85	4.57	MC9S08QE64CLH
96K	6K	34	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	44-LQFP	MC9S08QE96CLD-ND	4.86	4.59	4.32	MC9S08QE96CLD
128K	8K	38	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	48-QFN	MC9S08QE128CFT-ND	5.27	4.98	4.69	MC9S08QE128CFT
	8K	34	10-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	44-LQFP	MC9S08QE128CLD-ND	5.11	4.83	4.55	MC9S08QE128CLD
	8K	54	22-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	64-LQFP	MC9S08QE128CLH-ND	5.70	5.38	5.07	MC9S08QE128CLH
	8K	70	24-Ch., 12-Bit	3-Ch., 6-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	25.0	-40 ~ 85	80-LQFP	MC9S08QE128CLK-ND	5.89	5.57	5.24	MC9S08QE128CLK
HC9S08 — RoHS Compliant														
2K	128	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	8-PDIP	MC9S08QD2CPC-ND	1.26	1.20	1.13	MC9S08QD2CPC
	128	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	8-SOIC	MC9S08QD2CSC-ND	1.24	1.18	1.11	MC9S08QD2CSC

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
											1	10	25	
2K	128	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 125	8-SOIC	MC9S08QD2MSC-ND	1.32	1.25	1.18	MC9S08QD2MSC
	128	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 105	8-SOIC	MC9S08QD2VSC-ND	1.28	1.22	1.15	MC9S08QD2VSC
	160	5	4-Ch., 10-Bit	1-Ch.	SPI	1.8 ~ 3.6	10.0	-40 ~ 85	8-SOIC	MC9S08QA2CDNE-ND	1.19	1.12	1.06	MC9S08QA2CDNE
	160	5	4-Ch., 10-Bit	1-Ch.	SPI	1.8 ~ 3.6	10.0	-40 ~ 85	8-QFN	MC9S08QA2CFQE-ND	1.22	1.16	1.09	MC9S08QA2CFQE
	160	5	4-Ch., 10-Bit	1-Ch.	SPI	1.8 ~ 3.6	10.0	-40 ~ 85	8-DIP	MC9S08QA2CPAE-ND	1.26	1.20	1.13	MC9S08QA2CPAE
4K	128	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	28-SOIC	MCR908JL3ECDWE-ND	4.34	3.88	3.49	MCR908JL3ECDWE
	128	23	12-Ch., 8-Bit	2-Ch.	—	2.7 ~ 3.3	8.0	-40 ~ 85	20-SOIC	MCR908JK3ECDWE-ND	3.64	3.25	2.93	MCR908JK3ECDWE
	256	5	4-Ch., 10-Bit	1-Ch.	SCI	1.8 ~ 3.6	10.0	-40 ~ 85	8-SOIC	MC9S08QA4CDNE-ND	1.30	1.23	1.16	MC9S08QA4CDNE
	256	5	4-Ch., 10-Bit	1-Ch.	SCI	1.8 ~ 3.6	10.0	-40 ~ 85	8-DIP	MC9S08QA4CPAE-ND	1.26	1.20	1.13	MC9S08QA4CPAE
	256	20	12-Ch., 8-Bit	1-Ch.	SCI	1.8 ~ 3.6	10.0	-40 ~ 85	24-QFN	MC9S08QB4CGK-ND	1.79	1.69	1.59	MC9S08QB4CGK
	256	14	12-Ch., 8-Bit	1-Ch.	SCI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QB4CTG-ND	1.65	1.57	1.47	MC9S08QB4CTG
	256	6	4-Ch., 10-Bit	2-Ch.	SCI	2.7 ~ 5.5	8.0	-40 ~ 125	8-SOIC	MC9S08QD4MSC-ND	1.52	1.44	1.35	MC9S08QD4MSC
	256	4	4-Ch., 10-Bit	2-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	8-DIP	MC9S08QD4CPC-ND	1.34	1.27	1.20	MC9S08QD4CPC
	256	4	4-Ch., 10-Bit	2-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 85	8-SOIC	MC9S08QD4CSC-ND	1.32	1.25	1.18	MC9S08QD4CSC
	256	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	2.7 ~ 5.5	8.0	-40 ~ 125	8-PDIP	MC9S08QD4MPC-ND	1.61	1.53	1.44	MC9S08QD4MPC
	256	4	4-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	20.0	-40 ~ 105	8-SOIC	MC9S08QD4VSC-ND	1.46	1.38	1.30	MC9S08QD4VSC
	256	4	4-Ch., 10-Bit	2-Ch.	SPI	2.7 ~ 5.5	20.0	-40 ~ 105	8-DIP	MC9S08QD4VPC-ND	1.52	1.44	1.35	MC9S08QD4VPC
	256	6	4-Ch., 10-Bit	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-SOIC	MC9S08QG4CDNE-ND	1.48	1.40	1.32	MC9S08QG4CDNE
	256	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG4CDTE-ND	1.63	1.55	1.46	MC9S08QG4CDTE
	256	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG4CFFE-ND	1.65	1.57	1.47	MC9S08QG4CFFE
	256	6	4-Ch., 10-Bit	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG4CFQE-ND	1.50	1.42	1.34	MC9S08QG4CFQE
	256	6	4-Ch., 10-Bit	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-DIP	MC9S08QG4CPAE-ND	1.40	1.33	1.25	MC9S08QG4CPAE
	256	6	4-Ch., 10-Bit	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	16-PDIP	MC9S08QG4CPBE-ND	1.50	1.42	1.34	MC9S08QG4CPBE
	256	4	4-Ch., 10-Bit	1-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 125	8-DIP	MC9S08QG4MPAE-ND	1.54	1.45	1.37	MC9S08QG4MPAE
	256	12	8-Ch., 10-Bit	1-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	16-TSSOP	MC9S08QG84CDTE-ND	2.20	2.08	1.96	MC9S08QG84CDTE
	256	24	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	28-PDIP	MC9S08SE4CRL-ND	1.79	1.69	1.59	MC9S08SE4CRL
	256	14	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	16-TSSOP	MC9S08SE4CTG-ND	1.65	1.57	1.47	MC9S08SE4CTG
	256	24	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	28-SOIC	MC9S08SE4CWL-ND	1.79	1.69	1.59	MC9S08SE4CWL
	256	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	20-DIP	MC9S08SH4CPJ-ND	2.04	1.93	1.82	MC9S08SH4CPJ
	256	13	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	16-TSSOP	MC9S08SH4CTG-ND	1.92	1.82	1.72	MC9S08SH4CTG
	256	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	20-TSSOP	MC9S08SH4CTJ-ND	2.02	1.91	1.80	MC9S08SH4CTJ
	256	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	20-DIP	MC9S08SH4MPJ-ND	2.26	2.13	2.01	MC9S08SH4MPJ
	256	13	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	16-TSSOP	MC9S08SH4MTG-ND	2.12	2.01	1.89	MC9S08SH4MTG
	256	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	20-TSSOP	MC9S08SH4MTJ-ND	2.22	2.10	1.97	MC9S08SH4MTJ
8K	512	16	12-Ch., 10-Bit	2-Ch.	SCI, SPI, I2C, SLIC	2.7 ~ 5.5	20.0	-40 ~ 85	20-TSSOP	MC9S08SL8CTJ-ND	3.09	2.92	2.75	MC9S08SL8CTJ
	512	22	16-Ch., 10-Bit	2-Ch.	SCI, SPI, I2C, SLIC	2.7 ~ 5.5	20.0	-40 ~ 85	28-TSSOP	MC9S08SL8CTL-ND	2.94	2.78	2.61	MC9S08SL8CTL
	512	14	12-Ch., 8-Bit	1-Ch.	SCI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QB8CTG-ND	1.81	1.71	1.61	MC9S08QB8CTG
	512	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG8CDTE-ND	1.69	1.60	1.51	MC9S08QG8CDTE
	512	14	8-Ch., 10-Bit	2-Ch.	I2C, SPI, SCI	1.8 ~ 3.6	8.0	-40 ~ 85	16-TSOP	MC9S08QG8CDTERCT-ND§	1.93	1.73	1.63	MC9S08QG8CDTER
	512	14	8-Ch., 10-Bit	2-Ch.	I2C, SPI, SCI	1.8 ~ 3.6	8.0	-40 ~ 85	16-TSOP	MC9S08QG8CDTERTR-ND‡	2484.00/2,500			MC9S08QG8CDTER
	512	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFE-ND	1.77	1.68	1.58	MC9S08QG8CFFE
	512	14	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFERCT-ND§	2.10	1.88	1.77	MC9S08QG8CFFER
	512	14	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFERTR-ND‡	2700.00/2,500			MC9S08QG8CFFER
	512	14	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	24-QFN	MC9S08QG8CFKE-ND	1.94	1.84	1.73	MC9S08QG8CFKE
	512	6	4-Ch., 10-Bit	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG8CFQE-ND	1.57	1.49	1.40	MC9S08QG8CFQE
	512	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 85	16-DIP	MC9S08QG8CPBE-ND	1.65	1.57	1.47	MC9S08QG8CPBE
	512	4	4-Ch., 10-Bit	1-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 125	8-SOIC	MC9S08QG8MDNE-ND	1.69	1.60	1.51	MC9S08QG8MDNE
	512	4	8-Ch., 10-Bit	1-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	10.0	-40 ~ 125	16-DIP	MC9S08QG8MPBE-ND	1.81	1.71	1.61	MC9S08QG8MPBE
	512	24	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	28-PDIP	MC9S08SE8CRL-ND	1.92	1.82	1.72	MC9S08SE8CRL
	512	14	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	16-TSSOP	MC9S08SE8CTG-ND	1.81	1.71	1.61	MC9S08SE8CTG
	512	24	10-Ch., 10-Bit	2-Ch. + 1-Ch.	SCI	2.7 ~ 5.5	10.0	-40 ~ 85	28-SOIC	MC9S08SE8CWL-ND	1.92	1.82	1.72	MC9S08SE8CWL
	512	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	20-DIP	MC9S08SH8CPJ-ND	2.24	2.12	1.99	MC9S08SH8CPJ
	512	13	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	16-TSSOP	MC9S08SH8CTG-ND	2.12	2.01	1.89	MC9S08SH8CTG
	512	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	20-TSSOP	MC9S08SH8CTJ-ND	2.20	2.08	1.96	MC9S08SH8CTJ
	512	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	20-DIP	MC9S08SH8MPJ-ND	2.47	2.34	2.20	MC9S08SH8MPJ
	512	13	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	16-TSSOP	MC9S08SH8MTG-ND	2.33	2.21	2.08	MC9S08SH8MTG
	512	17	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	20-TSSOP	MC9S08SH8MTJ-ND	2.41	2.28	2.15	MC9S08SH8MTJ
	512	14	—	2-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	24-QFN	MC9S08JS8CFK-ND	2.12	2.01	1.89	MC9S08JS8CFK
	512	14	—	2-Ch.	SCI, SPI	2.7 ~ 5.5	24.0	-40 ~ 85	20-SOIC	MC9S08JS8CWJ-ND	2.06	1.95	1.84	MC9S08JS8CWJ
	1K	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	48-QFN	MC9S08GT8AMFDE-ND	3.09	2.92	2.75	MC9S08GT8AMFDE
	1K	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	44-QFP	MC9S08GT8AMFBE-ND	2.99	2.83	2.67	MC9S08GT8AMFBE
	1K	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	32-QFN	MC9S08GT8AMFCE-ND	2.99	2.83	2.67	MC9S08GT8AMFCE
	1K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBERCT-ND§	3.19	2.85	2.68	MC9S08GT8ACFBER
	1K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBERTR-ND‡	1231.20/750			MC9S08GT8ACFBER
	1K	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBE-ND	2.72	2.57	2.42	MC9S08GT8ACFBE
	1K	34	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	42-SDIP	MC9S08GT8ACBE-ND	2.72	2.57	2.42	MC9S08GT8ACBE
	1K	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	32-QFN	MC9S08GT8ACFCE-ND	2.72	2.57	2.42	MC9S08GT8ACFCE
	1K	23	—	2-Ch.	SCI	1.8 ~ 3.6	8.0	-40 ~ 85	28-SOIC	MC9S08RD8CDWE-ND	4.24	4.01	3.77	MC9S08RD8CDWE
	1K	27	—	2-Ch.	SCI	1.8 ~ 3.6	8.0	-40 ~ 85	32-LQFP	MC9S08RE8FJE-ND	4.37	4.14	3.89	MC9S08RE8FJE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
											1	10	25	
16K	512	22	16-Ch., 10-Bit	2-Ch.	SCI, SPI, I2C, SLIC	2.7 ~ 5.5	20.0	-40 ~ 85	28-TSSOP	MC9S08SL16CTL-ND	3.23	3.05	2.87	MC9S08SL16CTL
	512	14	—	2-Ch.	SCI, SPI	2.7 ~ 5.5	24	-40 ~ 85	24-QFN	MC9S08JS16CFK-ND	2.53	2.39	2.25	MC9S08JS16CFK
	512	14	—	2-Ch.	SCI, SPI	2.7 ~ 5.5	24	-40 ~ 85	20-SOIC	MC9S08JS16CWJ-ND	2.47	2.34	2.20	MC9S08JS16CWJ
	1K	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AW16CFDE-ND	3.99	3.77	3.55	MC9S08AW16CFDE
	1K	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AW16CFGE-ND	3.79	3.58	3.37	MC9S08AW16CFGE
	1K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AW16CFUE-ND	4.28	4.04	3.81	MC9S08AW16CFUE
	1K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AW16CPUE-ND	4.28	4.04	3.81	MC9S08AW16CPUE
	1K	38	12-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	48-QFN	MC9S08AW16MFDE-ND	4.39	4.15	3.91	MC9S08AW16MFDE
	1K	34	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	44-LQFP	MC9S08AW16MFGE-ND	4.18	3.95	3.72	MC9S08AW16MFGE
	1K	26	16-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DN16ACLC-ND	4.76	4.50	4.24	MC9S08DN16ACLC
	1K	26	10-Ch., 12-Bit	2-Ch.	SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DV16ACLC-ND	4.96	4.69	4.41	MC9S08DV16ACLC
	1K	26	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DZ16ACLC-ND	5.27	4.98	4.69	MC9S08DZ16ACLC
	1K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	48-LQFP	MC9S08DZ16ACLF-ND	5.44	5.15	4.84	MC9S08DZ16ACLF
	1K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	48-LQFP	MC9S08DZ16AMLF-ND	6.01	5.68	5.34	MC9S08DZ16AMLF
	1K	16	12-Ch., 10-Bit	4-Ch. + 2-Ch.	SLIC, SCI, SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 125	20-TSSOP	MC9S08EL16CTJ-ND	3.48	3.29	3.10	MC9S08EL16CTJ
	1K	22	16-Ch., 10-Bit	4-Ch. + 2-Ch.	SLIC, SCI, SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	28-TSSOP	MC9S08EL16CTL-ND	3.34	3.16	2.98	MC9S08EL16CTL
	1K	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	48-QFN	MC9S08GT16AMFDE-ND	3.73	3.53	3.32	MC9S08GT16AMFDE
	1K	39	—	2-Ch.	SCI	1.8 ~ 3.6	8.0	0 ~ 70	32-LQFP	MC9S08RE16FJE-ND	6.24	5.90	5.55	MC9S08RE16FJE
	1K	39	—	2-Ch.	SCI	1.8 ~ 3.6	8.0	0 ~ 70	44-LQFP	MC9S08RE16FGE-ND	6.24	5.90	5.55	MC9S08RE16FGE
	2K	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	44-QFP	MC9S08GT16AMFBE-ND	3.64	3.44	3.24	MC9S08GT16AMFBE
	2K	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 125	32-QFN	MC9S08GT16AMFCE-ND	3.64	3.44	3.24	MC9S08GT16AMFCE
	2K	39	8-Ch., 10-Bit	3-Ch., + 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT16ACFDE-ND	3.40	3.22	3.03	MC9S08GT16ACFDE
	2K	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBE-ND	3.30	3.13	2.94	MC9S08GT16ACFBE
	2K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBERCT-ND§	3.84	3.43	3.22	MC9S08GT16ACFBER
	2K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBERTR-ND‡	1474.20/750			MC9S08GT16ACFBER
	2K	34	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	42-SDIP	MC9S08GT16ACBE-ND	3.30	3.13	2.94	MC9S08GT16ACBE
	2K	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	32-QFN	MC9S08GT16ACFCE-ND	3.30	3.13	2.94	MC9S08GT16ACFCE
32K	1500	40	16-Ch., 12-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	48-LQFP	MC9S08DN32AMLF-ND	5.87	5.55	5.22	MC9S08DN32AMLF
	1K	16	12-Ch., 10-Bit	2-Ch. + 4-Ch.	SLIC, SCI, SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	20-TSSOP	MC9S08EL32CTJ-ND	4.06	3.84	3.62	MC9S08EL32CTJ
	1K	22	16-Ch., 10-Bit	4-Ch. + 2-Ch.	SLIC, SCI, SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	28-TSSOP	MC9S08EL32CTL-ND	3.91	3.69	3.48	MC9S08EL32CTL
	2K	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AW32CFDE-ND	4.28	4.04	3.81	MC9S08AW32CFDE
	2K	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AW32CFGE-ND	4.08	3.86	3.63	MC9S08AW23CFGE
	2K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AW32CFUE-ND	4.57	4.32	4.07	MC9S08AW32CFUE
	2K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AW32CPUE-ND	4.57	4.32	4.07	MC9S08AW32CPUE
	2K	34	8-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 125	44-LQFP	MC9S08AW32MFGE-ND	4.49	4.25	4.00	MC9S08AW32MFGE
	2K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	48-LQFP	MC9S08DV32ACLF-ND	5.54	5.24	4.93	MC9S08DV32ACLF
	2K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	48-LQFP	MC9S08DV32AMLF-ND	6.10	5.77	5.43	MC9S08DV32AMLF
	2K	54	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	64-LQFP	MC9S08DV32AMLH-ND	6.53	6.17	5.81	MC9S08DV32AMLH
	2K	26	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DZ32ACLC-ND	5.66	5.35	5.03	MC9S08DZ32ACLC
	2K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	48-LQFP	MC9S08DZ32ACLF-ND	5.83	5.51	5.19	MC9S08DZ32ACLF
	2K	54	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	64-LQFP	MC9S08DZ32AMLH-ND	6.84	6.47	6.09	MC9S08DZ32AMLH
	2K	56	8-Ch., 10-Bit	5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB32ACFUE-ND	5.73	5.42	5.10	MC9S08GB32ACFUE
	2K	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	42-SDIP	MC9S08GT32ACBE-ND	5.64	5.33	5.02	MC9S08GT32ACBE
	2K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT32ACFBE-ND	5.15	4.87	4.58	MC9S08GT32ACFBE
	2K	39	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT32ACFDE-ND	5.35	5.05	4.76	MC9S08GT32ACFDE
	2K	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT32CFDE-ND	8.10	7.29	6.64	MC9S08GT32CFDE
	2K	27	—	2-Ch.	SCI, SPI	1.8 ~ 3.6	8.0	-40 ~ 85	32-LQFP	MC9S08RG32CFJE-ND	7.89	7.46	7.02	MC9S08RG32CFJE
36K	2K	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	40.0	-40 ~ 85	64-LQFP	MC9S08LC36LH-ND	6.45	6.10	5.74	MC9S08LC36LH
	2K	23	8-Ch., 12-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	40.0	-40 ~ 85	80-LQFP	MC9S08LC36LK-ND	6.69	6.32	5.95	MC9S08LC36LK
48K	2K	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AW48CFDE-ND	5.11	4.83	4.55	MC9S08AW48CFDE
	2K	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AW48CFGE-ND	4.92	4.65	4.38	MC9S08AW48CFGE
	2K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AW48CFUE-ND	5.40	5.11	4.81	MC9S08AW48CFUE
	2K	26	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DV48ACLC-ND	5.73	5.42	5.10	MC9S08DV48ACLC
	2K	40	16-Ch., 12-Bit	2-Ch. + 6-Ch.	CAN, SCI, SPI, I2C	2.7 ~ 5.5	20.0	-40 ~ 125	48-LQFP	MC9S08DZ48MLF-ND	8.80	7.92	7.22	MC9S08DZ48MLF
60K	2K	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	48-QFN	MC9S08AW60CFDE-ND	5.54	5.24	4.93	MC9S08AW60CFDE
	2K	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	44-LQFP	MC9S08AW60CFGE-ND	5.35	5.05	4.76	MC9S08AW60CFGE
	2K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-QFP	MC9S08AW60CFUE-ND	5.83	5.51	5.19	MC9S08AW60CFUE
	2K	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I2C	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08AW60CPUE-ND	5.83	5.51	5.19	MC9S08AW60CPUE
	2K	34	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	44-LQFP	MC9S08AW60MFGE-ND	5.89	5.57	5.24	MC9S08AW60MFGE
	2K	54	16-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	64-QFP	MC9S08AW60MFUE-ND	6.42	6.06	5.71	MC9S08AW60MFUE
	2K	54	16-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	64-QFP	MC9S08AW60MFUERCT-ND§ ***NEW!***	7.28	6.50	6.11	MC9S08AW60MFUER
	2K	54	16-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 125	64-QFP	MC9S08AW60MFUERTR-ND‡ ***NEW!***	2805.00/750			MC9S08AW60MFUER
	2K	34	16-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	2.7 ~ 5.5	20.0	-40 ~ 105	44-LQFP	MC9S08AW60VFGE-ND ***NEW!***	5.63	5.33	5.01	MC9S08AW60VFGE
	3K	26	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DV60ACLC-ND	6.12	5.79	5.45	MC9S08DV60ACLC
	4K	26	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	32-LQFP	MC9S08DZ60ACLC-ND	6.43	6.08	5.72	MC9S08DZ60ACLC
	4K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	48-LQFP	MC9S08DZ60ACLF-ND	6.61	6.25	5.88	MC9S08DZ60ACLF
	4K	54	10-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 85	64-LQFP	MC9S08DZ60ACLH-ND	7.00	6.61	6.23	MC9S08DZ60ACLH
	4K	40	16-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	48-LQFP	MC9S08DZ60AMLF-ND	7.27	6.87	6.47	MC9S08DZ60AMLF
	4K	54	24-Ch., 12-Bit	2-Ch.	2 SCI, SPI, I2C, CAN	2.7 ~ 5.5	20.0	-40 ~ 125	64-LQFP	MC9S08DZ60AMLH-ND	7.70	7.28	6.85	MC9S08DZ60AMLH
	4K	56	8-Ch., 10-Bit	5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB60ACFUE-ND	7.68	7.26	6.83	MC9S08GB60ACFUE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	Typ. Operating Voltage (V)	Max. Bus Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
60K	4K	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	42-SDIP	MC9S08GT60ACBE-ND	7.58	7.16	6.74	MC9S08GT60ACBE
	4K	39	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60ACFDE-ND	7.29	6.89	6.48	MC9S08GT60ACFDE
	4K	36	8-Ch., 10-Bit	2-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60ACFBE-ND	7.10	6.71	6.31	MC9S08GT60ACFBE
	4K	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60ACFBERCT-ND§	7.92	7.08	6.66	MC9S08GT60ACFBER
	4K	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60ACFBERTR-ND‡		3053.70/750		MC9S08GT60ACFBER
	4K	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60ACFDERCT-ND§	8.15	7.28	6.84	MC9S08GT60ACFDER
	4K	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	I2C, SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60ACFDERTR-ND‡		8380.80/2,000		MC9S08GT60ACFDER
	4K	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60CFDE-ND	9.13	8.31	7.68	MC9S08GT60CFDE
	4K	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08LC60LH-ND	7.60	7.18	6.76	MC9S08LC60LH
	4K	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	1.8 ~ 3.6	20.0	-40 ~ 85	80-LQFP	MC9S08LC60LK-ND	7.83	7.40	6.97	MC9S08LC60LK
Demo Boards														
Demo Board for MC9S08AW60										DEMO9S08AW60E-ND◆		85.00/1		DEMO9S08AW60E
Demo Board for MC9S08DZ60										DEMO9S08DZ60-ND◆		78.00/1		DEMO9S08DZ60
Demo Board for MC9S08EL										DEMO9S08EL32-ND◆		69.00/1		DEMO9S08EL32
Demo Board for 9S08LC60 / LCD Controller										DEMO9S08LC60-ND◆		75.00/1		DEMO9S08LC60
Demo Board for MC9RSOLA8										DEMO9RS08LA8-ND		59.00/1		DEMO9RS08LA8
Demo Board for MC9S08LL16										DEMO9S08LL16-ND		69.00/1		DEMO9S08LL16
Demo Board for MC9S08QD Family										DEMO9S08QD4-ND◆		59.00/1		DEMO9S08QD4
Demo Board for MC908AP64										DEMO908AP64E-ND◆		49.00/1		DEMO908AP64E
Demo Board for 908GZ60										DEMO908GZ60E-ND◆		49.95/1		DEMO908GZ60E
Demo Board for 9RS08KA2										DEMO9RS08KA2-ND◆		50.00/1		DEMO9RS08KA2
Demo Board for 9RS08KA12										DEMO9RS08KB12-ND◆ ***NEW!***		59.00/1		DEMO9RS08KB12
Evaluation Board for HC908GP32										M68EVB908GP32-ND		168.20/1		M68EVB908GP32
Evaluation Board for MC9S08GB60										M68EVB908GB60E-ND◆		249.10/1		M68EVB908GB60E
Demo Board for MC9S08QG8										DEMO9S08QG8E-ND◆		50.00/1		DEMO9S08QG8E
Demo Board for MC9S08QE										DEMO9S08QE8-ND◆		69.00/1		DEMO9S08QE8
Demo Kit for MCF51AC and S08AC										DEMOACKIT-ND◆		99.00/1		DEMOACKIT
Daughter Card for DEMO9S/JM Series										DC9S08JM16-ND◆		10.00/1		DC9S08JM16
Demo Board for MC9RS08KA8/MC9RS08KA4										DEMO9RS08KA8-ND◆		50.00/1		DEMO9RS08KA8
Demo Board for S08AC Microcontroller Family										DEMO9S08AC60E-ND◆		85.00/1		DEMO9S08AC60E
Demo Board for MC9S08SG Family of Microcontrollers										DEMO9S08SG8-ND◆		59.00/1		DEMO9S08SG8
Demo Board for MC9S08SH Family of Microcontrollers										DEMO9S08SH8-ND◆		59.00/1		DEMO9S08SH8
Demo Board for MC9S08MP16										DEMO9S08MP16-ND◆ ***NEW!***		69.00/1		DEMO9S08MP16
Evaluation Board for 9S08DZ60 Family of MCUs										EVB9S08DZ60-ND◆		285.00/1		EVB9S08DZ60
Demo Board for MC9S08GB60 Family of MCUs										M68DEMO908GB60E-ND◆		49.00/1		M68DEMO908GB60E
Demo Board for MC9S08QE32 Series of MCUs										DEMO9S08QE32-ND◆		79.00/1		DEMO9S08QE32
Daughter Card for DEMO9S08QE32										DC9S08QE32-ND◆		10.00/1		DC9S08QE32
Demo Board for QE128 Series of MCUs										DEMOQE128-ND		99.00/1		DEMOQE128
Evaluation Board for QE128 Series of MCUs										EVBQE128-ND		325.00/1		EVBQE128
Demo Board for JM Family of MCUs										DEMOJM-ND		99.00/1		DEMOJM
Evaluation Board for JM Family of MCUs										EVB51JM128-ND		325.00/1		EVB51JM128
Demo Board for JS16 Family of MCUs										DEMO9S08JS16-ND◆		79.00/1		DEMO9S08JS16
Demo Board for SE8 Family of MCUs										DEMO9S08SE8-ND◆		75.00/1		DEMO9S08SE8

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HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11. **Features:** • Fully static design allowing operation down to DC • 16-bit Accumulator • 20-bit ALU • 16-bit Timer with built-in prescaler • BDM (Background Debug Module) for faster debugging and non-intrusive, real time read/write capability to the memory and registers • SAE J1850 BDLC-D (Byte Data Link Control Module) for single wire communication with other BDLC MCUs • COP Watchdog Timer • Low power STOP and WAIT modes • SPI, SCI, I²C and CAN 2.0 • High-level language optimization • 32/16 Divide • 16 x 16 Multiply

Flash (B)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
32K	1K	768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	80-QFP	MCHC912B32CFUE8-ND	22.18	20.52	18.86	MCHC912B32CFUE8
	3.5K	—	8-Ch., 16-Bit	See Timer	75	—	USB 2.0	5.0	30.0	0 ~ 70	100-LQFP	MC9S12UF32PUE-ND	8.75	8.27	7.78	MC9S12UF32PUE
	3.5K	—	8-Ch., 16-Bit	See Timer	37	—	USB 2.0	5.5	30.0	-40 ~ 85	64-LQFP	MC9S12UF32PBE-ND	8.16	7.72	7.26	MC9S12UF32PBE
60K	2K	1K	8-Ch., 16 Bit	4-Ch., 8-Bit	48	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	80-QFP	MC912D60ACFUE8-ND	20.54	19.00	17.46	MC912D60ACFUE8
64K	4K	1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 85	80-QFP	MCS12GC64CFUE-ND	8.51	7.66	6.98	MCS12GC64CFUE
	4K	1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 125	80-QFP	MCS12GC64MFUE-ND	9.55	8.60	7.84	MCS12GC64MFUE
128K	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVE-ND	39.74	37.53	35.33	MC912DG128ACPVE
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 125	112-LQFP	MC912DG128AMPVE-ND	43.29	40.89	38.49	MC912DG128AMPVE
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVERCT-ND◆§	41.65	37.65	32.04	MC912DG128ACPVER
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVERTR-ND◆‡		11178.04/500		MC912DG128ACPVER
HC9S12																
6K	2K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	16	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912D60ACPVE8-ND◆	20.54	19.00	17.46	MC912D60ACPVE8
16K	1K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	33	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	52-LQFP	MC9S12GC16CPBE-ND◆	7.02	6.63	6.24	MC9S12GC16CPBE
	1K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	80-QFP	MC9S12GC16MFUE-ND◆	8.03	7.59	7.14	MC9S12GC16MFUE

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Microcontrollers – 8 and 16 Bit

HC912 Family — 16-Bit *(Cont.)*

Flash (B)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	10	25	
32K	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C32CFAE16-ND◆	9.23	8.73	8.21	MC9S12C32CFAE16
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C32CFAE25-ND◆	9.72	9.18	8.64	MC9S12C32CFAE25
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	80-QFP	MC9S12C32CFUE16-ND◆	9.80	9.26	8.71	MC9S12C32CFUE16
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	80-QFP	MC9S12C32CFUE25-ND◆	10.30	9.74	9.16	MC9S12C32CFUE25
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	52-LQFP	MC9S12C32CPBE25-ND◆	9.72	9.18	8.64	MC9S12C32CPBE25
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	48-LQFP	MC9S12GC32CFAE-ND◆	8.51	8.05	7.57	MC9S12GC32CFAE
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	52-LQFP	MC9S12GC32CPBE-ND◆	8.51	8.05	7.57	MC9S12GC32CPBE
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	48-LQFP	MC9S12C32MFAE16-ND◆	10.17	9.61	9.04	MC9S12C32MFAE16
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	48-LQFP	MC9S12C32MFAE25-ND◆	10.83	10.23	9.63	MC9S12C32MFAE25
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	80-QFP	MC9S12C32MFUE16-ND◆	10.77	10.18	9.58	MC9S12C32MFUE16
	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	80-QFP	MC9S12C32MFUE25-ND◆	11.45	10.82	10.18	MC9S12C32MFUE25
	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	52-LQFP	MC9S12C32MPBE25-ND◆	10.69	10.10	9.51	MC9S12C32MPBE25
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 105	48-LQFP	MC9S12C32VFAE16-ND◆	9.72	9.18	8.64	MC9S12C32VFAE16
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 105	80-QFP	MC9S12C32VFUE16-ND◆	10.30	9.74	9.16	MC9S12C32VFUE16
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	52-LQFP	MC9S12GC32MPBE-ND◆	9.37	8.85	8.33	MC9S12GC32MPBE
	2K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 105	48-LQFP	MC9S12GC32VFAE-ND◆	8.94	8.45	7.95	MC9S12GC32VFAE
	4K	1K	8-Ch., 18-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12A32CFUE-ND◆	9.43	8.91	8.39	MC9S12A32CFUE
	4K	1K	8-Ch., 16-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12D32CFUE-ND◆	10.36	9.79	9.22	MC9S12D32CFUE
	4K	1K	8-Ch., 16-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 ~ 125	80-QFP	MC9S12D32MFUE-ND◆	11.41	10.78	10.15	MC9S12D32MFUE
64K	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12B64MFUE-ND◆	13.41	12.67	11.93	MC9S12B64MFUE
	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12B64CPVE-ND◆	12.64	11.94	11.24	MC9S12B64CPVE
	4K	1K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12A64CFUE-ND◆	12.83	12.12	11.41	MC9S12A64CFUE
	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12A64CPVE-ND◆	13.01	12.29	11.57	MC9S12A64CPVE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C64CFAE-ND◆	11.66	11.02	10.37	MC9S12C64CFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	80-QFP	MC9S12C64CFUE-ND◆	12.25	11.57	10.89	MC9S12C64CFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	52-LQFP	MC9S12C64CPBE-ND◆	11.66	11.02	10.37	MC9S12C64CPBE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	48-LQFP	MC9S12C64MFAE-ND◆	12.83	12.12	11.41	MC9S12C64MFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	80-QFP	MC9S12C64MFUE-ND◆	13.47	12.73	11.98	MC9S12C64MFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 105	48-LQFP	MC9S12C64VFAE-ND◆	12.25	11.57	10.89	MC9S12C64VFAE
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12D64CFUE-ND◆	14.35	13.55	12.76	MC9S12D64CFUE
	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12D64CPVE-ND◆	14.91	14.09	13.26	MC9S12D64CPVE
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12D64MFUE-ND◆	15.79	14.91	14.04	MC9S12D64MFUE
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12D64MPVE-ND◆	16.41	15.50	14.59	MC9S12D64MPVE
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	80-QFP	MC9S12D64VFUE-ND◆	15.07	14.23	13.40	MC9S12D64VFUE
	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12D64VPVE-ND◆	15.65	14.78	13.92	MC9S12D64VPVE
	4K	1K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DJ64CFUE-ND◆	14.91	14.09	13.26	MC9S12DJ64CFUE
	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DJ64CPVE-ND◆	15.49	14.64	13.78	MC9S12DJ64CPVE
	4K	1K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	80-QFP	MC9S12DJ64VFUE-ND◆	16.15	15.26	14.36	MC9S12DJ64VFUE
	4K	—	(3)4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E64CFUE-ND◆	10.94	10.34	9.73	MC9S12E64CFUE
	4K	—	8-Ch., 16-Bit	7-Ch., 8-Bit	90	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12E64CPVE-ND◆	11.47	10.84	10.20	MC9S12E64CPVE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	29	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	48-LQFP	MC9S12GC64CFAE-ND◆	10.11	9.55	8.99	MC9S12GC64CFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	58	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	80-QFP	MC9S12GC64CFUE-ND◆	10.42	9.85	9.27	MC9S12GC64CFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	29	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	48-LQFP	MC9S12GC64MFAE-ND◆	11.12	10.51	9.89	MC9S12GC64MFAE
	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	80-QFP	MC9S12XD64CAA-ND◆	10.28	9.72	9.15	MC9S12XD64CAA
	8K	—	4-Ch., 16-Bit	See Timer	36	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 105	80-TQFP	MC9S12NE64VTU-ND◆	14.32	13.02	12.05	MC9S12NE64VTU
	8K	—	4-Ch., 16-Bit	See Timer	38	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 105	80-TQFP	MC9S12NE64VTUE-ND◆	13.32	12.58	11.84	MC9S12NE64VTUE
	8K	—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 85	112-LQFP	MC9S12NE64CPV-ND	14.87	13.52	12.50	MC9S12NE64CPV
	8K	—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 85	112-LQFP	MC9S12NE64CPVE-ND◆	14.06	13.28	12.50	MC9S12NE64CPVE
	12K	—	(3)4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 125	80-QFP	MC9S12E64MFUE-ND◆	12.01	11.35	10.68	MC9S12E64MFUE
96K	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C96CFAE-ND◆	13.61	12.86	12.10	MC9S12C96CFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12C96CFUERCT-ND◆§	14.56	13.16	11.20	MC9S12C96CFUER
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12C96CFUERTR-ND◆‡	6042.60/750			MC9S12C96CFUER
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	29	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	48-LQFP	MC9S12GC96CFAE-ND◆	10.65	10.07	9.47	MC9S12GC96CFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	58	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	80-QFP	MC9S12GC96CFUE-ND◆	11.04	10.43	9.82	MC9S12GC96CFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	29	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	48-LQFP	MC9S12GC96MFAE-ND◆	11.18	10.56	9.94	MC9S12GC96MFAE
100K	64K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	16-Ch., 12-Bit	SCI, SPI, CAN, I2C	5.0	50.0	-40 ~ 85	144-LQFP	MC9S12XEP100CAG-ND◆	21.62	20.42	19.22	MC9S12XEP100CAG
	64K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 12-Bit	SCI, SPI, CAN, I2C	5.0	50.0	-40 ~ 85	112-LQFP	MC9S12XEP100CAL-ND◆	21.33	20.15	18.96	MC9S12XEP100CAL
	64K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	16-Ch., 12-Bit	SCI, SPI, CAN, I2C	5.0	50.0	-40 ~ 125	144-LQFP	MC9S12XEP100MAG-ND◆	23.78	22.46	21.14	MC9S12XEP100MAG
	64K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 12-Bit	SCI, SPI, CAN, I2C	5.0	50.0	-40 ~ 125	112-LQFP	MC9S12XEP100MAL-ND◆	23.48	22.18	20.88	MC9S12XEP100MAL
128K	4K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C128CFAE-ND◆	14.58	13.77	12.96	MC9S12C128CFAE
	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C, CAN	5.5	25.0	-40 ~ 85	80-QFP	MC9S12B128CFUE-ND◆	16.08	15.19	14.30	MC9S12B128CFUE
	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	80-QFP	MC9S12B128MFUE-ND◆	17.69	16.71	15.73	MC9S12B128MFUE
	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 105	80-QFP	MC9S12B128VFUE-ND◆	16.87	15.94	15.00	MC9S12B128VFUE
	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	112-LQFP	MC9S12B128MPVE-ND◆	18.18	17.17	16.16	MC9S12B128MPVE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 85	80-QFP	MC9S12C128CFUE-ND◆	15.16	14.33	13.48	MC9S12C128CFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	48-LQFP	MC9S12C128MFAE-ND◆	16.04	15.15	14.26	MC9S12C128MFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	80-QFP	MC9S12C128MFUE-ND◆	16.68	15.76	14.83	MC9S12C128MFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 125	52-LQFP	MC9S12C128MPBE-ND◆	16.04	15.15	14.26	MC9S12C128MPBE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 105	48-LQFP	MC9S12C128VFAE-ND◆	15.32	14.47	13.62	MC9S12C128VFAE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI, CAN	5.0	25.0	-40 ~ 105	80-QFP	MC9S12C128VFUE-ND◆	15.92	15.04	14.16	MC9S12C128VFUE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	58	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 85	80-QFP	MC9S12GC128CFUE-ND◆	12.64	11.94	11.24	MC9S12GC128CFUE
	4K	2K	8-Ch., 16-Bit	6-Ch., 8-Bit	37	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	48-LQFP	MC9S12GC128MFAE-ND◆	13.59	12.84	12.08	MC9S12GC128MFAE
	6K	4K	8-Ch., 10-Bit	See Timer	99	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 ~ 105	144-LQFP	MC9S12H128VFVE-ND◆	22.14	20.92	19.69	MC9S12H128VFVE
	6K	2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	(2)CAN 2.0, (2)SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12HZ128CAL-ND◆	20.33	19.21	18.08	MC9S12HZ128CAL
	6K	2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12HZ128VAL-ND◆	21.35	20.16	18.98	MC9S12HZ128VAL
	8K	2K	8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12A128CFUE-ND◆	17.77	16.79	15.80	MC9S12A128CFUE
	8K	2K	8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12A128CPVE-ND◆	18.33	17.32	16.30	MC9S12A128CPVE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

freescale semiconductor

Microcontrollers – 8 and 16 Bit

HC912 Family — 16-Bit *(Cont.)*

Flash (B)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	10	25	
128	8K	2K	7-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	80-QFP	MC9S12DG128VFUE-ND◆	19.34	18.27	17.20	MC9S12DG128VFUE
	8K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12DG128VPVE-ND◆	19.96	18.86	17.75	MC9S12DG128VPVE
	8K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DT128CPVE-ND◆	18.76	17.72	16.68	MC9S12DT128CPVE
	8K	2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DB128CFUE-ND◆	19.83	18.73	17.63	MC9S12DB128CFUE
	8K	2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG128CFUE-ND◆	18.43	17.41	16.39	MC9S12DG128CFUE
	8K	2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG128CFUERTR-ND◆‡	7937.99/750			MC9S12DG128CFUER
	8K	2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DJ128CFUE-ND◆	18.78	17.74	16.70	MC9S12DJ128CFUE
	8K	2K	8-Ch., 16-Bit	See Timer	91	(2)8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DB128CPVE-ND◆	19.34	18.27	17.20	MC9S12DB128CPVE
	8K	2K	8-Ch., 16-Bit	See Timer	91	(2)8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DG128CPVE-ND◆	19.01	17.96	16.90	MC9S12DG128CPVE
	8K	2K	8-Ch., 16-Bit	See Timer	91	(2)8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DJ128CPVE-ND◆	19.36	18.29	17.22	MC9S12DJ128CPVE
	8K	—	(3)4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E128CFUE-ND◆	12.25	11.57	10.89	MC9S12E128CFUE
	8K	—	(3)4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	5.0	25.0	-40 ~ 125	80-QFP	MC9S12E128MFUE-ND◆	13.47	12.73	11.98	MC9S12E128MFUE
	8K	—	12-Ch., 16-Bit	6-Ch., 8-Bit	60	—	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12E128CPVE-ND◆	14.04	13.26	12.48	MC9S12E128CPVE
	12K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	80-QFP	MC9S12XDG128CAA-ND◆	11.64	11.00	10.36	MC9S12XDG128CAA
256K	12K	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 105	80-QFP	MC9S12A256CFUE-ND◆	21.70	20.49	19.29	MC9S12A256CFUE
	12K	4K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG256CFUE-ND◆	22.88	21.61	20.34	MC9S12DG256CFUE
	12K	4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DG256CPVE-ND◆	23.48	22.18	20.88	MC9S12DG256CPVE
	12K	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 125	80-QFP	MC9S12DG256MFUE-ND◆	25.17	23.78	22.38	MC9S12DG256MFUE
	12K	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12DG256MPVE-ND◆	25.82	24.39	22.95	MC9S12DG256MPVE
	12K	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12DG256VPVE-ND◆	24.63	23.27	21.90	MC9S12DG256VPVE
	12K	4K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DJ256CFUE-ND◆	25.12	23.73	22.33	MC9S12DJ256CFUE
	12K	4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DJ256CPVE-ND◆	25.70	24.28	22.85	MC9S12DJ256CPVE
	12K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DT256CPVE-ND◆	25.02	23.63	22.24	MC9S12DT256CPVE
	12K	4K	8-Ch., 16-Bit	See Timer	115	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 ~ 105	144-LQFP	MC9S12H256VFVE-ND◆	25.64	24.22	22.80	MC9S12H256VFVE
	12K	4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	144-LQFP	MC9S12H256VFVERCT-ND◆§	30.71	27.76	23.62	MC9S12H256VFVER
	12K	4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	144-LQFP	MC9S12H256VFVERTR-ND◆‡	7246.79/500			MC9S12H256VFVER
	12K	2K	8-Ch., 16-Bit	See Timer	85	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 ~ 85	112-LQFP	MC9S12HZ256CAL-ND◆	23.41	22.11	20.81	MC9S12HZ256CAL
	14K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	80-QFP	MC9S12XD256CAA-ND◆	14.35	13.55	12.76	MC9S12XD256CAA
	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	144-LQFP	MC9S12XD256CAG-ND◆	14.83	14.01	13.19	MC9S12XD256CAG
	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	112-LQFP	MC9S12XD256CAL-ND◆	14.54	13.74	12.93	MC9S12XD256CAL
	14K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	80-QFP	MC9S12XD256MAA-ND◆	18.37	17.35	16.33	MC9S12XD256MAA
	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	112-LQFP	MC9S12XD256MAL-ND◆	18.60	17.58	16.54	MC9S12XD256MAL
	16K	—	4-Ch., 16-Bit	6-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	80-QFP	MC9S12E256CFUE-ND◆	14.56	13.76	12.95	MC9S12E256CFUE
	16K	—	4-Ch., 16-Bit	6-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12E256CPVE-ND◆	15.12	14.29	13.45	MC9S12E256CPVE
	16K	—	4-Ch., 16-Bit	6-Ch., 8-Bit	58	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 125	80-QFP	MC9S12E256MFUE-ND◆	16.04	15.15	14.26	MC9S12E256MFUE
	16K	—	4-Ch., 16-Bit	6-Ch., 8-Bit	90	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12E256MPVE-ND◆	16.64	15.72	14.80	MC9S12E256MPVE
	16K	—	4-Ch., 16-Bit	6-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12E256VPVE-ND◆	15.88	15.00	14.12	MC9S12E256VPVE
	16K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.5	40.0	-40 ~ 85	80-QFP	MC9S12XA256CAA-ND◆	13.96	13.19	12.41	MC9S12XA256CAA
	16K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 ~ 105	80-PQFP	MC9S12XA256CAARCT-ND◆§	17.91	16.20	13.78	MC9S12XA256CAAR
	16K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 ~ 105	80-PQFP	MC9S12XA256CAARTR-ND◆‡	7443.89/750			MC9S12XA256CAAR
	16K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 ~ 85	144-LQFP	MC9S12XA256CAG-ND◆	14.44	13.65	12.84	MC9S12XA256CAG
	16K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	80-QFP	MC9S12XDT256CAA-ND◆	15.12	14.29	13.45	MC9S12XDT256CAA
	16K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	112-LQFP	MC9S12XDT256CAL-ND◆	15.32	14.47	13.62	MC9S12XDT256CAL
	16K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	80-QFP	MC9S12XDT256MAA-ND◆	19.23	18.16	17.09	MC9S12XDT256MAA
	16K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 105	112-LQFP	MC9S12XDT256MAL-ND◆	19.46	18.38	17.30	MC9S12XDT256MAL
	16K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 105	80-QFP	MC9S12XDT256VAA-ND◆	18.35	17.34	16.32	MC9S12XDT256VAA
	16K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	112-LQFP	MC9S12XDT256VAL-ND◆	18.53	17.50	16.47	MC9S12XDT256VAL
512K	4K	1K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12A512CPVE-ND◆	25.60	24.18	22.76	MC9S12A512CPVE
	12K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	10-Ch., 8-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPVE-ND◆	27.35	25.84	24.32	MC9S12DP512CPVE
	12K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12DP512MPVE-ND◆	30.09	28.43	26.75	MC9S12DP512MPVE
	12K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN I2C	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12DP512VPVE-ND◆	29.61	27.97	26.32	MC9S12DP512VPVE
	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPVERCT-ND◆§	32.66	29.52	25.12	MC9S12DP512CPVER
	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPVERTR-ND◆‡	7705.81/500			MC9S12DP512CPVER
	20K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	80-QFP	MC9S12XDT512CAA-ND◆	18.99	17.94	16.89	MC9S12XDT512CAA
	20K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	144-LQFP	MC9S12XDT512CAG-ND◆	19.48	18.40	17.32	MC9S12XDT512CAG
	20K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	112-LQFP	MC9S12XDT512CAL-ND◆	19.19	18.13	17.06	MC9S12XDT512CAL
	20K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	80-QFP	MC9S12XDT512MAA-ND◆	22.43	21.19	19.95	MC9S12XDT512MAA
	20K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	112-LQFP	MC9S12XDT512MAL-ND◆	22.67	21.41	20.15	MC9S12XDT512MAL
	32K	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.5	40.0	-40 ~ 105	80-QFP	MC9S12XA512VAA-ND◆	21.40	20.22	19.03	MC9S12XA512VAA
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	144-LQFP	MC9S12XDP512CAG-ND◆	20.26	19.14	18.01	MC9S12XDP512CAG
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 85	112-LQFP	MC9S12XDP512CAL-ND◆	19.96	18.86	17.75	MC9S12XDP512CAL
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	144-LQFP	MC9S12XDP512MAG-ND◆	23.95	22.62	21.29	MC9S12XDP512MAG
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 125	112-LQFP	MC9S12XDP512MAL-ND◆	23.52	22.22	20.91	MC9S12XDP512MAL
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 105	144-LQFP	MC9S12XDP512VAG-ND◆	22.84	21.58	20.31	MC9S12XDP512VAG
	32K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 ~ 105	112-LQFP	MC9S12XDP512VAL-ND◆	22.43	21.19	19.95	MC9S12XDP512VAL
768K	48K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 12-Bit	SCI, SPI, CAN, I2C	5.0	50.0	-40 ~ 85	112-LQFP	MC9S12XEP768CAL-ND◆	20.35	19.23	18.10	MC9S12XEP768CAL
HC16 — RoHS Compliant																
—	1K	—	8-Ch., 10-Bit	2-Ch.	16	8-Ch., 10-Bit	SCI, SPI	5.0	16.0	-40 ~ 85	132-PQFP	MC68HC16Z1VEH16-ND	27.97	26.42	24.87	MC68HC16Z1VEH16
Demo Boards																
Evaluation Board for MC9S12E128/64												M68EVB912E128-ND	153.63/1			M68EVB912E128
Evaluation Board for MC9S12XDT512												DEMO9S12XDT512E-ND◆	75.00/1			DEMO9S12XDT512E
Development Kit for 912D60A with Serial Debugger												M68KIT912D60A-ND	450.60/1			M68KIT912D60A
Development Kit for 912D128A with Serial Debugger												M68KIT912DG128A-ND	451.95/1			M68KIT912D128A
Development Kit for 912DP256 with Multilink												M68KIT912DP256-ND	495.30/1			M68KIT912DP256
Demo Board for MC9S12XEP100-ND												DEMO9S12XEP100-ND◆	75.30/1			DEMO9S12XEP100
Demo Board for MC9S12XDP512												EVB9S12XDP512E-ND◆	395.00/1			EVB9S12XDP512E
Demo Board for MC9S12XEP100												EVB9S12XEP100-ND◆	500.00/1			EVB9S12XEP100

◆ *RoHS Compliant* § Cut Tape ‡ Tape and Reel

8-16 Bit Development Tools
MultiLink

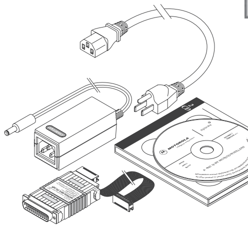

The MultiLink is an easy-to-use, low cost development tool for the Freescale HC(S)08 and HC(S)12 MCUs. It provides In-Circuit emulation, debugging and programming through the MON08 (HC08) and BDM (HC12, HCS08) interfaces. **Features:** • Universal development tool for HC(S)08 and HC(S)12 MCUs • Real-Time In-Circuit emulation and debug • Fast In-Circuit programming • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Small size • Supports 2V ~ 5.5V • Auto-cycle power for security checks (up to 125mA) • Universal power supply (included). The M68CYCLONEPRO provides all the same capabilities of the MultiLinks, with the ability to function as a standalone programmer, with pushbuttons and LEDs to control operation. Also provides support for 1.8V operation.

M68CYCLONEPROE-ND	HC(S)08, HC(S)12, USB	**$498.80**
USBMULTILINK08E-ND	HC08s, USB	**$99.00**
USBMULTILINKBDME-ND	HC(S)08, HC(S)12, USB	**$99.00**

NEW! i.MX Multimedia Applications Processors

Freescale ARM-based i.MX multimedia applications processors deliver an optimal balance of performance and long battery life for rich multimedia experiences on the go. The i.MX applications processor family includes processors based on ARM9, ARM11 and ARM Cortex A8 core technologies, which are powering new applications in consumer, automotive and industrial markets that demand exceptional performance and efficiency.

Description	Temperature (°C)	Speed (MHz)	Voltage Supply (V)	Package (MAPBGA)	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
MPU 32-Bit i.MX233 Industrial	-40 ~ 85	454	1.0 ~ 2.1	169-MAPBGA	MCIMX233CJM4B-ND	12.85	12.14	11.43	MCIMX233CJM4B
MPU 32-Bit i.MX233	-10 ~ 70	454	1.0 ~ 2.1	128-LQFP	MCIMX233DAG4B-ND	9.67	9.13	8.60	MCIMX233DAG4B
MPU 32-Bit i.MX233	-10 ~ 70	454	1.0 ~ 2.1	169-MAPBGA	MCIMX233DJM4B-ND	11.39	10.77	10.13	MCIMX233DJM4B
MPU 32-Bit i.MX21	-40 ~ 85	266	1.45 ~ 1.65	289-MAPBGA	MC9328MX21CJM-ND	23.49	22.19	20.88	MC9328MX21CJM
MPU i.MX25 Industrial	-40 ~ 85	400	1.38 ~ 1.52	400-MAPBGA	MCIMX253CJM4-ND	13.61	12.86	12.10	MCIMX253CJM4
MPU i.MX25 Communication	-20 ~ 70	400	1.38 ~ 1.52	400-MAPBGA	MCIMX253DJM4-ND	13.14	12.41	11.68	MCIMX253DJM4
MPU i.MX25 Auto	-40 ~ 85	400	1.38 ~ 1.52	400-MAPBGA	MCIMX255AJM4-ND	16.15	15.25	14.36	MCIMX255AJM4
MPU i.MX25 Industrial	-40 ~ 85	400	1.38 ~ 1.52	400-MAPBGA	MCIMX257CJM4-ND	15.50	14.64	13.78	MCIMX257CJM4
IC MPU i.MX25 Communication	-20 ~ 70	400	1.38 ~ 1.52	400-MAPBGA	MCIMX257DJM4-ND	14.69	13.88	13.06	MCIMX257DJM4
MPU i.MX25	-40 ~ 85	400	1.15 ~ 1.52	400-MAPBGA	MCIMX258CJM4-ND	17.03	16.09	15.14	MCIMX258CJM4
MPU MX31 ARM11	-40 ~ 85	532	1.22 ~ 1.65	457-MAPBGA	MCIMX31CJKN5D-ND	29.84	28.19	26.53	MCIMX31CJKN5D
MPU MX35 ARM11	-40 ~ 85	532	1.33 ~ 1.47	400-MAPBGA	MCIMX357CJQ5C-ND	21.38	20.20	19.01	MCIMX357CJQ5C
Multimedia Processors	-20 ~ 85	600	0.8 ~ 1.15	529-LFBGA	MCIMX512CJM6C-ND	44.71	42.23	39.75	MCIMX512CJM6C
Multimedia Processors	-20 ~ 85	800	0.8 ~ 1.15	529-LFBGA	MCIMX512DJM8C-ND	40.39	38.15	35.91	MCIMX512DJM8C
Multimedia Processors	-20 ~ 85	800	0.8 ~ 1.15	529-LFBGA	MCIMX513DJM8C-ND	41.36	39.07	36.77	MCIMX513DJM8C
Multimedia Processors	-20 ~ 85	600	0.8 ~ 1.15	529-LFBGA	MCIMX515CJM6C-ND	51.73	48.86	45.99	MCIMX515CJM6C
Multimedia Processors	-20 ~ 85	800	0.8 ~ 1.15	529-LFBGA	MCIMX515DJM8C-ND	47.03	44.43	41.81	MCIMX515DJM8C
Module LCD i.MX233 4.3" WQVGA					MCIMX23LCD-ND	199.00	—	—	MCIMX23LCD
Evaluation Kit for IMX233					MCIMX23LEVKJ-ND	399.00	—	—	MCIMX23LEVKJ
Development Kit for MCIMX25 PDK for Linux					MCIMX25LPDKJ-ND	995.00	—	—	MCIMX25LPDKJ
Evaluation Board i.MX23					MCIMX23WEVKJ-ND	399.00	—	—	MCIMX23WEVKJ
Kit Development WINCE i.MX25					MCIMX25WPDKJ-ND	995.00	—	—	MCIMX25WPDKJ

32-Bit Microcontrollers

ColdFire™ the highly integrated ColdFire series of processors allow for advanced performance at low cost. Rich peripheral sets and development tools make these processors both easy to use and highly functional. The variable length RISC architecture enable this processor to save system memory and cost.

PowerPC™ series of processors from Freescale Semiconductor, Inc. are the ideal foundation for RISC embedded applications. Features include high scalability and code compatibility over the entire line.

PowerQUICC™ delivers functionality tailored to the needs of the embedded communications market space, excelling particularly in access and customer premise equipment applications. PowerQUICC processors are well-suited for applications including SOHO routers, remote access routers, DSLAMs, and Voice over IP systems.

M-CORE with an emphasis on low power consumption, the M-CORE series of processors are the ideal match for handheld and other low-power applications, which require high performance.

68K series of processors are ideal for the engineer looking for high performance at a reduced cost. The wide array of 68K processors can suit most any application.

Freq. (MHz)	Cache (KB)	SRAM (KB)	Flash (KB)	DMA	USB	CAN	Serial	ADC	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
							ColdFire™ Processors								
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	-40 ~ 85	196-MAPBGA	MCF5272CVF66J-ND◆ ***NEW!***	24.19	22.85	21.51	MCF5272CVF66J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	-40 ~ 85	196-MAPBGA	MCF5272CVM66J-ND◆ ***NEW!***	24.19	22.85	21.51	MCF5272CVM66J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	0 ~ 70	196-MAPBGA	MCF5272VF66J-ND◆ ***NEW!***	21.17	20.00	18.82	MCF5272VF66J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	0 ~ 70	196-MAPBGA	MCF5272VF66R2J-ND◆ ***NEW!***	21.56	20.37	19.17	MCF5272VF66R2J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	0 ~ 70	196-MAPBGA	MCF5272VM66J-ND◆ ***NEW!***	21.17	20.00	18.82	MCF5272VM66J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	0 ~ 70	196-MAPBGA	MCF5272VM66R2JCT-ND◆† ***NEW!***	21.63	19.55	16.64	MCF5272VM66R2J
66	1K	4K	16	2-Ch.	Full-Speed Device	—	SPI, I^{2}C	—	0 ~ 70	196-MAPBGA	MCF5272VM66R2JTR-ND◆‡ ***NEW!***		8984.98/750		MCF5272VM66R2J
50	—	64	128	2-Ch.	—	—	SCI, SPI, I^{2}C	12-Bit	-40 ~ 85	48-QFN	MCF51CN128CGT-ND◆	6.01	5.68	5.34	MCF51CN128CGT
50	—	64	128	2-Ch.	—	—	SCI, SPI, I^{2}C	12-Bit	-40 ~ 85	64-LQFP	MCF51CN128CLH-ND◆	6.43	6.08	5.72	MCF51CN128CLH
50	—	64	128	2-Ch.	—	—	SCI, SPI, I^{2}C	12-Bit	-40 ~ 85	80-LQFP	MCF51CN128CLK-ND◆	6.63	6.27	5.90	MCF51CN128CLK
40	4K	8	—	2-Ch.	—	2	2 UART	—	-40 ~ 85	160-QFP	MCF5206ECAB40-ND◆	21.58	20.38	19.19	MCF5206ECAB40
40	4K	8	—	2-Ch.	—	2	2 UART	—	-40 ~ 85	160-QFP	MCF5206EAB40-ND◆	17.42	16.46	15.49	MCF5206EAB40
54	4K	8	—	2-Ch.	—	2	2 UART	—	-40 ~ 85	160-QFP	MCF5206EAB54-ND◆	21.58	20.38	19.19	MCF5206EAB54
25	512K	512	—	4-Ch.	High-Speed OTG	—	UART	12-Bit (8-Ch.)	0 ~ 70	160-QFP	MCF5206FT25A-ND	22.87	21.16	19.45	MCF5206FT25A
80	16K	64	—	4-Ch.	—	2	I^{2}C, UART, SPI	—	-40 ~ 85	160-QFP	MCF5232CAB80-ND◆	21.75	20.55	19.34	MCF5232CAB80
120	8K	96	—	4-Ch.	—	2	I^{2}C, UART, SPI	10-Bit	0 ~ 70	144-LQFP	MCF5249LAG120-ND◆	19.79	18.69	17.60	MCF5249LAG120
100	16K	64	—	4-Ch.	Full-Speed Device	—	I^{2}C, UART, SPI	—	0 ~ 70	160-QFP	MCF5270AB100-ND◆	15.94	15.06	14.17	MCF5270AB100
100	16K	64	—	4-Ch.	Full-Speed Device	—	I^{2}C, UART, SPI	—	-40 ~ 85	160-QFP	MCF5271CAB100-ND◆	20.18	19.06	17.94	MCF5271CAB100
66	16K	4	—	4-Ch.	—	—	I^{2}C, UART	—	0 ~ 70	208-FQFP	MCF5307AI66B-ND◆	27.84	26.30	24.75	MCF5307AI66B
90	16K	4	—	4-Ch.	—	—	I^{2}C, UART	—	0 ~ 70	208-FQFP	MCF5307AI90B-ND◆	36.66	34.63	32.59	MCF5307AI90B
66	16K	4	—	4-Ch.	—	—	I^{2}C, UART	—	-40 ~ 85	208-FQFP	MCF5307CAI66B-ND◆	34.21	32.32	30.42	MCF5307CAI66B
220	24K	4	—	4-Ch.	—	—	I^{2}C, UART	—	-40 ~ 85	208-FQFP	MCF5407CAI220-ND◆	67.81	64.04	60.28	MCF5407CAI220
162	24K	4	—	4-Ch.	—	—	I^{2}C, UART	—	-40 ~ 85	208-FQFP	MCF5407CAI162-ND◆	59.97	56.65	53.31	MCF5407CAI162
220	24K	4	—	4-Ch.	—	—	I^{2}C, UART	—	0 ~ 70	208-FQFP	MCF5407AI220-ND◆	59.97	56.65	53.31	MCF5407AI220
162	24K	4	—	4-Ch.	—	—	I^{2}C, UART	—	0 ~ 70	208-FQFP	MCF5407AI162-ND◆	49.51	46.77	44.02	MCF5407AI162
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5471VR200-ND◆	43.55	41.13	38.71	MCF5471VR200
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5472VR200-ND◆	36.99	34.94	32.89	MCF5472VR200
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5474VR200-ND◆	41.48	39.18	36.88	MCF5474VR200
266	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5474VR266-ND◆	43.55	41.13	38.71	MCF5474VR266
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5475VR200-ND◆	48.02	45.35	42.69	MCF5475VR200
266	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	0 ~ 70	388-PBGA	MCF5475VR266-ND◆	50.10	47.32	44.54	MCF5475VR266
166	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	-40 ~ 85	388-PBGA	MCF5480CVR166-ND◆	43.53	41.11	38.69	MCF5480CVR166
166	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	-40 ~ 85	388-PBGA	MCF5482CVR166-ND◆	43.53	41.11	38.69	MCF5482CVR166
166	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	-40 ~ 85	388-PBGA	MCF5483CVR166-ND◆	50.08	47.30	44.52	MCF5483CVR 166
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	-40 ~ 85	388-PBGA	MCF5484CVR200-ND◆	51.24	48.40	45.55	MCF5484CVR200
200	64K	32	—	16-Ch.	High-Speed Device	2	I^{2}C, UART, SPI	—	-40 ~ 85	388-PBGA	MCF5485CVR200-ND◆	57.78	54.57	51.36	MCF5485CVR200
66	—	16	128	4-Ch.	Full-Speed Device/Host/OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF52221CAE66-ND◆	7.21	6.82	6.42	MCF52221CAE66
66	—	16	128	4-Ch.	Full-Speed Device/Host/OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52221CAF66-ND◆	7.41	7.00	6.59	MCF52221CAF66
80	—	16	128	4-Ch.	Full-Speed Device/Host/OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52221CAF80-ND◆	8.16	7.72	7.26	MCF52221CAF80
66	—	32	256	4-Ch.	Full-Speed Device/Host/OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52223CAF66-ND◆	8.16	7.72	7.26	MCF52223CAF66
80	—	32	256	4-Ch.	Full-Speed Device/Host/OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52223CAF80-ND◆	8.98	8.49	7.99	MCF52223CAF80

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(Continued)

Freq. (MHz)	Cache (KB)	SRAM (KB)	Flash (KB)	DMA	USB	CAN	Serial	ADC	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
60	—	32	256	4-Ch.	—	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	112-LQFP	MCF52230CAL60-ND◆	11.41	10.78	10.15	MCF52230CAL60
60	—	32	256	4-Ch.	—	1	I^{2}C, UART	12-Bit	-40 ~ 85	112-LQFP	MCF52233CAL60-ND◆	12.58	11.88	11.18	MCF52233CAL60
60	—	32	256	4-Ch.	—	1	I^{2}C, UART	12-Bit	-40 ~ 85	112-LQFP	MCF52234CAL60-ND◆	12.99	12.27	11.55	MCF52234CAL60
60	—	32	256	4-Ch.	—	1	I^{2}C, UART	12-Bit	-40 ~ 85	112-LQFP	MCF52235CAL60-ND◆	14.04	13.26	12.48	MCF52235CAL60
NEW! ColdFire™ V1 Processors — RoHS Compliant NEW!															
50	—	8	128	2-Ch.	—	—	I^{2}C, SCI, SPI	32-Bit	-40 ~ 85	80-LQFP	MCF51EM128CLK-ND	9.23	8.31	7.57	MCF51EM128CLK
50	—	8	128	2-Ch.	—	—	I^{2}C, SCI, SPI	32-Bit	-40 ~ 85	100-LQFP	MCF51EM128CLL-ND	7.69	7.26	6.84	MCF51EM128CLL
50	—	16	256	2-Ch.	—	—	I^{2}C, SCI, SPI	32-Bit	-40 ~ 85	80-LQFP	MCF51EM256CLK-ND	10.13	9.12	8.31	MCF51EM256CLK
50	—	16	256	2-Ch.	—	—	I^{2}C, SCI, SPI	32-Bit	-40 ~ 85	100-LQFP	MCF51EM256CLL-ND	8.41	7.94	7.48	MCF51EM256CLL
ColdFire™ V2 Processors															
80	—	16	128	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52110CAF80-ND◆	7.04	6.65	6.26	MCF52110CAF80
66	—	16	128	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF5211CAE66-ND◆	10.30	9.74	9.16	MCF5211CAE66
66	—	32	256	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF5212CAE66-ND◆	13.32	12.58	11.84	MCF5212CAE66
66	—	32	256	4-Ch.	—	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF5213CAF66-ND◆	15.55	14.69	13.83	MCF5213CAF66
80	—	32	256	4-Ch.	—	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF5213CAF80-ND◆	16.39	15.48	14.57	MCF5213CAF80
66	—	16	128	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF52211CAE66-ND◆	7.21	6.82	6.42	MCF52211CAE66
80	—	16	128	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF52211CAE80-ND◆	7.91	7.48	7.04	MCF52211CAE80
80	—	16	128	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52211CAF80-ND◆	8.16	7.72	7.26	MCF52211CAF80
50	—	8	64	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	0 ~ 70	64-LQFP	MCF52212AE50-ND◆	6.01	5.68	5.34	MCF52212AE50
60	—	32	128	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	80-LQFP	MCF52230CAF60-ND◆	10.93	10.32	9.72	MCF52230CAF60
50	—	32	128	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	0 ~ 70	80-LQFP	MCF52232AF50-ND◆	9.60	9.07	8.54	MCF52232AF50
50	—	32	128	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	80-LQFP	MCF52232CAF50-ND◆	10.58	9.99	9.41	MCF52232CAF50
60	—	32	256	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	80-LQFP	MCF52233CAF60-ND◆	12.03	11.37	10.70	MCF52233CAF60
50	—	32	256	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	0 ~ 70	80-LQFP	MCF52236AF50-ND◆	10.58	9.99	9.41	MCF52236AF50
50	—	32	256	4-Ch.	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	80-LQFP	MCF52236CAF50-ND◆	11.64	11.00	10.36	MC52236CAF50
80	—	64	512	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	0 ~ 70	100-LQFP	MCF52254AF80-ND◆	10.05	9.50	8.94	MCF52254AF80
80	—	64	512	4-Ch.	OTG	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	100-LQFP	MCF52255CAF80-ND◆	11.66	11.02	10.37	MCF52255CAF80
66	—	64	256	4-Ch.	OTG	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	144-LQFP	MCF52256CAG66-ND◆	10.15	9.59	9.02	MCF52256CAG66
80	—	64	512	4-Ch.	OTG	—	I^{2}C, UART, SPI	12-Bit	0 ~ 70	144-LQFP	MCF52258AG80-ND◆	11.02	10.41	9.80	MCF52258AG80
66	—	64	512	4-Ch.	OTG	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	144-LQFP	MCF52258CAG66-ND◆	11.55	10.91	10.27	MCF52258CAG66
80	—	64	512	4-Ch.	OTG	1	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	144-LQFP	MCF52259CAG80-ND◆	12.62	11.92	11.22	MCF52259CAG80
266	32/32	32	—	1-Ch.	High-Speed Device	1	I^{2}C, SPI	—	0 ~ 70	388-PBGA	MCF5474ZP266-ND	44.89	42.40	39.90	MCF5474ZP266
166	32/32	32	—	1-Ch.	—	1	I^{2}C, SPI	—	-40 ~ 85	388-PBGA	MCF5480CZP166-ND	44.87	42.38	39.89	MCF5480CZP166
200	32/32	32	—	1-Ch.	High-Speed Device	1	I^{2}C, SPI	—	-40 ~ 85	388-PBGA	MCF5484CZP200-ND	52.82	49.89	46.95	MCF5484CZP200
200	32/32	32	—	1-Ch.	High-Speed Device	1	I^{2}C, SPI	—	-40 ~ 85	388-PBGA	MCF5485CZP200-ND	59.56	56.26	52.95	MCF5485CZP200
MCF51QE: Flexis 32-Bit — RoHS Compliant															
50	—	8	32	—	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF51QE32CLH-ND	4.51	4.26	4.01	MCF51QE32CLH
50	—	8	32	—	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF51QE32LH-ND	4.12	3.90	3.67	MCF51QE32LH
50	—	8	64	—	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF51QE64CLH-ND	5.29	5.00	4.70	MCF51QE64CLH
50	—	8	128	—	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	64-LQFP	MCF51QE128CLH-ND	5.89	5.57	5.24	MCF51QE128CLH
50	—	8	128	—	—	—	I^{2}C, UART, SPI	12-Bit	-40 ~ 85	80-LQFP	MCF51QE128CLK-ND	6.10	5.77	5.43	MCF51QE128CLK

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

Operating Frequency (MHz)	Features	Timer	Operating Voltage (V)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
PowerPC™ Processors										
400	EBI/EMI, Ethernet, I^{2}C, USB OTG, CAN	32-Bit	1.33 ~ 1.47	0 ~ 70	516-PBGA	MPC5121VY400B-ND◆ ***NEW!***	49.36	46.62	43.88	MPC5121VY400B
400	EBI/EMI, Ethernet, I^{2}C, USB OTG, CAN	32-Bit	1.33 ~ 1.47	-40 ~ 85	516-PBGA	MPC5121YVY400B-ND◆ ***NEW!***	51.95	49.07	46.18	MPC5121YVY400B
400	EBI/EMI, Ethernet, I^{2}C, USB OTG, CAN	32-Bit	1.33 ~ 1.47	0 ~ 70	516-PBGA	MPC5123VY400B-ND◆ ***NEW!***	46.89	44.29	41.68	MPC5123VY400B
400	EBI/EMI, Ethernet, I^{2}C, USB OTG, CAN	32-Bit	1.33 ~ 1.47	-40 ~ 85	516-PBGA	MPC5123YVY400B-ND◆ ***NEW!***	49.36	46.62	43.88	MPC5123YVY400B
400	EBI/EMI, Ethernet, I^{2}C, USB OTG, CAN	32-Bit	3.3	-40 ~ 125	324-PBGA	MPC5125YVN400-ND◆ ***NEW!***	25.83	24.40	22.96	MPC5125YVN400
400	IIC, SPI, CAN 2.0, USB 1.1	8-Ch.	3.3	-40 ~ 85	272-PBGA	MPC5200CVR400-ND◆	54.67	51.46	48.24	MPC5200CVR400
400	I^{2}C, SPI	—	3.3	-40 ~ 85	272-PBGA	MPC5200CVR400B-ND◆	39.48	37.29	35.10	MPC5200CVR400B
400	SPI, I^{2}C	—	3.3	-40 ~ 85	272-PBGA	MPC5200VR400-ND◆	53.47	50.32	47.18	MPC5200VR400
400	I^{2}C, SPI, CAN 2.0	—	3.3	-40 ~ 85	272-PBGA	MPC5200VR400B-ND◆	36.29	34.28	32.27	MPC5200VR400B
40	SPI, SCI, TouCAN	22-Ch.	2.6	-40 ~ 85	388-BGA	MPC535CZP40-ND	70.18	66.28	62.39	MPC535CZP40
132	SPI, SCI, CAN	64-Ch.	1.5	-40 ~125	416-PBGA	MPC5554MVR132-ND◆	56.90	53.74	50.58	MPC5554MVR132
132	SPI, SCI, CAN	64-Ch.	1.5	-40 ~ 125	416-PBGA	MPC5554MZP132-ND	56.90	53.74	50.58	MPC5554MZP132
40	QSMCM	—	3.3	-40 ~ 105	272-PBGA	MPC555LFCVR40-ND◆	96.56	91.20	85.83	MPC555LFCVR40
40	QSPI, SCI, TouCAN	50-Ch.	3.3	-40 ~ 125	272-PBGA	MPC555LFCZP40-ND	96.56	91.20	85.83	MPC555LFCZP40
40	QSMCM	50-Ch.	3.3	-40 ~ 85	272-PBGA	MPC555LFMVR40-ND◆	106.20	100.30	94.41	MPC555LFMVR40
40	QSPI, SCI, TouCAN	50-Ch.	3.3	-40 ~ 125	272-BGA	MPC555LFMZP40-ND	106.20	100.30	94.41	MPC555LFMZP40
40	SCI, QSPI, TouCAN	54-Ch.	3.3	-40 ~ 85	388-PBGA	MPC561CVR40-ND◆	44.83	42.34	39.85	MPC561CVR40
56	QSPI, SCI, TouCAN	54-Ch.	2.6	-40 ~ 125	388-PBGA	MPC561MVR56-ND◆	49.32	46.58	43.84	MPC561MVR56
56	SCI, QSPI, TouCAN	54-Ch.	2.6	-40 ~ 125	388-PBGA	MPC561MZP56-ND	49.32	46.58	43.84	MPC561MZP56
56	SCI, QSPI, TouCAN	54-Ch.	2.6	-40 ~ 125	388-PBGA	MPC562MZP56-ND	56.71	53.56	50.41	MPC562MZP56
40	QSMCM	54-Ch.	2.6	-40 ~ 85	388-PBGA	MPC563CVR40-ND◆	73.60	69.52	65.43	MPC563CVR40
40	QSPI, SCI, TouCAN	54-Ch.	2.6	-40 ~ 85	388-PBGA	MPC563CZP40-ND	73.60	69.52	65.43	MPC563CZP40
56	SCI, QSPI, TouCAN	—	2.6	-40 ~ 105	388-BGA	MPC563MVR56-ND◆	80.97	76.47	71.98	MPC563MVR56
56	SCI, QSPI, TouCAN	—	2.6	-40 ~ 105	388-BGA	MPC564MVR56-ND◆	89.05	84.11	79.16	MPC564MVR56
56	QSPI, SCI, TouCAN	54-Ch.	2.6	-40 ~ 125	388-BGA	MPC564MZP56-ND	89.05	84.11	79.16	MPC564MZP56
40	QSMCM	70-Ch.	2.6	-40 ~ 85	388-PBGA	MPC565CVR40-ND◆	105.17	99.33	93.49	MPC565CVR40
56	QSMCM	70-Ch.	2.6	-40 ~ 85	388-PBGA	MPC565CVR56-ND◆	110.44	104.31	98.17	MPC565CVR56
40	QSPI, SCI, TouCAN, J1850	70-Ch.	2.6	-40 ~ 85	388-PBGA	MPC565CZP40-ND	105.17	99.33	93.49	MPC565CZP40
56	QSPI, SCI, TouCAN, J1850	70-Ch.	2.6	-40 ~ 85	388-PBGA	MPC565CZP56-ND	110.44	104.31	98.17	MPC565CZP56
56	SCI, QSPI, TouCAN	—	2.6	-40 ~ 105	388-BGA	MPC565MVR56-ND◆	120.96	114.24	107.52	MPC565MVR56
56	QSPI, SCI, TouCAN, J1850	70-Ch.	2.6	-40 ~ 125	388-BGA	MPC565MZP56-ND	120.96	114.24	107.52	MPC565MZP56
56	SCI, QSPI, TouCAN	—	2.6	-40 ~ 105	388-BGA	MPC566MVR56-ND◆	127.27	120.21	113.14	MPC566MVR56
56	QSPI, SCI, TouCAN, J1850	70-Ch.	2.6	-40 ~ 125	388-BGA	MPC566MZP56-ND	127.27	120.21	113.14	MPC566MZP56
200	60X	—	2.5	-40 ~ 85	255-PBGA	MPC603RZT200LC-ND	54.56	50.87	47.19	MPC603RZT200LC
400	60X, MPX	—	3.3	-40 ~ 105	360-FCCLGA	MPC7410VS400LE-ND◆	92.94	87.14	82.78	MPC7410VS400LE
500	60X	—	2.5, 3.3	-40 ~ 85	360-CBGA	MPC7410VS500LE-ND◆	179.60	170.31	164.74	MPC7410VS500LE
300	60X	—	3.3	-40 ~ 85	360-CBGA	MPC755BPX300LE-ND	93.71	87.86	83.47	MPC755BPX300LE
400	60X	—	3.3	-40 ~ 85	360-PBGA	MPC755CPX400LE-ND	145.65	138.12	133.60	MPC755CPX400LE
400	60X	—	3.3	-40 ~ 85	360-CBGA	MPC755CRX400LE-ND	145.65	138.12	133.60	MPC755CRX400LE
PowerQUICC™ I										
50	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TCVR50A-ND◆	20.24	19.12	17.99	MPC852TCVR50A
66	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TCVR66A-ND	22.86	21.60	20.33	MPC852TCVR66A
80	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TCVR80A-ND	25.84	24.40	22.97	MPC852TCVR80A
100	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TCVR100A-ND◆	29.72	28.08	26.43	MPC852TCVR100A

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Operating Frequency (MHz)	Features	Timer	Operating Voltage (V)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Freescale Part No.
66	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TCZT66A-ND	22.86	21.60	20.33	MPC852TCZT66A
50	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TVR50A-ND◆	18.74	17.70	16.66	MPC852TVR50A
80	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TVR80A-ND	23.91	22.59	21.26	MPC852TVR80A
66	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TVR66A-ND◆	21.17	20.00	18.82	MPC852TVR66A
100	PCMCIA, SCC, SMC, SPI	32 bit	1.8	0 ~ 85	256-PBGA	MPC852TVR100A-ND◆ ***NEW!***	27.51	25.98	24.46	MPC852TVR100A
50	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TZT50A-ND	18.74	17.70	16.66	MPC852TZT50A
80	PCMCIA, SCC, SMC, SPI	2-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC852TZT80A-ND	23.91	22.59	21.26	MPC852TZT80A
100	PCMCIA, SCC, SMC, SPI	32 bit	1.8	0 ~ 85	256-PBGA	MPC852TZT100A-ND◆ ***NEW!***	27.51	25.98	24.46	MPC852TZT100A
66	PCMCIA, SPI	—	3.3	0 ~ 105	256-PBGA	MPC853TVR66A-ND◆	23.35	22.05	20.76	MPC853TVR66A
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC855TCVR50D4-ND◆	50.84	48.02	45.19	MPC855TCVR50D4
50	PCMCIA, SPI	4-16 Bit	3.3	0 ~ 105	357-PBGA	MPC855TVR50D4-ND◆	44.79	41.77	38.74	MPC855TVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	0 ~ 105	357-PBGA	MPC855TVR66D4-ND◆	52.66	49.74	46.82	MPC855TVR66D4
80	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC855TVR80D4-ND◆	59.12	55.84	52.55	MPC855TVR80D4
50	PCMCIA, SPI	32 bit	3.3	0 ~ 85	357-PBGA	MPC855TZQ50D4-ND◆ ***NEW!***	47.06	44.45	41.84	MPC855TZQ50D4
50	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC857DSLVR50B-ND◆	39.71	37.51	35.30	MPC857DSLVR50B
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC857DSLCVR66B-ND◆	47.16	44.54	41.92	MPC857DSLCVR66B
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC857TCVR66B-ND◆	68.22	64.43	60.64	MPC857TCVR66B
100	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC857TVR100B-ND◆	82.53	77.95	73.36	MPC857TVR100B
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC859DSLCVR50A-ND◆	34.02	32.13	30.24	MPC859DSLCVR50A
133	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC859TVR133A-ND◆	61.80	58.37	54.94	MPC859TVR133A
50	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860DECVR50D4-ND◆	75.66	71.46	67.26	MPC860DECVR50D4
50	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860DEVR50D4-ND◆	70.06	66.17	62.28	MPC860DEVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860DEVR66D4-ND◆	77.08	72.80	68.52	MPC860DEVR66D4
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860DTVR50D4-ND◆	77.27	72.99	68.69	MPC860DTVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860DTVR66D4-ND◆	84.29	79.61	74.93	MPC860DTVR66D4
80	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860DTVR80D4-ND◆	99.69	94.15	88.62	MPC860DTVR80D4
50	PCMCIA, SPI, I^{2}C	32 bit	3.3	-40 ~ 85	357-PBGA	MPC860ENCZQ50D4-ND◆ ***NEW!***	91.25	86.19	81.12	MPC860ENCZQ50D4
66	PCMCIA, SPI, I^{2}C	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860ENVR66D4-ND◆	77.65	72.95	69.42	MPC860ENVR66D4
80	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860ENVR80D4-ND◆	106.90	100.97	95.03	MPC860ENVR80D4
50	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860PCVR50D4-ND◆	91.12	85.43	81.16	MPC860PCVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860PCVR66D4-ND◆	97.36	91.28	86.72	MPC860PCVR66D4
50	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860PVR50D4-ND◆	102.51	96.82	91.12	MPC860PVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MPC860PVR66D4-ND◆	90.14	84.51	80.29	MPC860PVR66D4
80	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860PVR80D4-ND◆	124.94	118.00	111.06	MPC860PVR80D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860SRCVR66D4-ND◆	106.59	100.67	94.75	MPC860SRCVR66D4
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860SRVR50D4-ND◆	91.70	86.61	81.51	MPC860SRVR50D4
80	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860SRVR80D4-ND◆	114.13	107.80	101.46	MPC860SRVR80D4
80	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860SRZQ80D4-ND	93.94	88.07	83.67	MPC860SRZQ80D4
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860TCVR50D4-ND◆	99.05	93.55	88.05	MPC860TCVR50D4
66	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 115	357-PBGA	MPC860TCVR66D4-ND◆	106.59	100.67	94.75	MPC860TCVR66D4
50	PCMCIA, I^{2}C, SPI	32 bit	3.3	-40 ~ 85	357-PBGA	MPC860TCZQ50D4-ND◆ ***NEW!***	99.05	93.55	88.05	MPC860TCZQ50D4
50	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860TVR50D4-ND◆	91.70	86.61	81.51	MPC860TVR50D4
66	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC860TVR66D4-ND◆	98.72	93.24	87.75	MPC860TVR66D4
80	PCMCIA, I^{2}C, SPI	32 bit	3.3	0 ~ 85	357-PBGA	MPC860TZQ80D4-ND◆ ***NEW!***	114.14	107.80	101.46	MPC860TZQ80D4
80	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 115	357-PBGA	MPC862PCVR80B-ND◆	145.06	137.01	128.95	MPC862PCVR80B
66	PCMCIA, SPI	4-16 Bit	3.3	0 ~ 105	357-PBGA	MPC862PVR66B-ND◆	117.76	111.22	104.68	MPC862PVR66B
100	PCMCIA, SPI	4-16 Bit	3.3	0 ~ 105	357-PBGA	MPC862PVR100B-ND◆	145.06	137.01	128.95	MPC862PVR100B
100	PCMCIA, SPI	4-16 Bit	3.3	0 ~ 105	357-PBGA	MPC862PZQ100B-ND	145.06	137.01	128.95	MPC862PZQ100B
80	PCMCIA, SPI	4-16 Bit	3.3	-40 ~ 115	357-PBGA	MPC862TCVR80B-ND◆	132.52	125.16	117.80	MPC862TCVR80B
80	I^{2}C, UART	4-16 Bit	5	-40 ~ 105	357-PBGA	MPC862TVR80B-ND◆	122.69	115.88	109.06	MPC862TVR80B
100	PCMCIA, SPI	4-16 Bit	5	-40 ~ 85	357-PBGA	MPC866PCVR100A-ND◆	105.33	99.48	93.63	MPC866PCVR100A
133	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC866PVR133A-ND◆	104.78	98.97	93.14	MPC866PVR133A
133	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 100	357-PBGA	MPC866PZP133A-ND	104.78	98.97	93.14	MPC866PZP133A
100	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC866TCVR100A-ND◆	98.37	92.91	87.44	MPC866TCVR100A
100	PCMCIA, I^{2}C, SPI	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC866TVR100A-ND◆	76.08	71.48	68.02	MPC866TVR100A
50	I^{2}C, SPI, TDM, IrDA	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MC860DECVR50D4R2CT-ND◆§	71.93	65.08	59.94	MC860DECVR50D4R2
50	I^{2}C, SPI, TDM, IrDA	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MC860DECVR50D4R2TR-ND◆‡		7566.06/180		MC860DECVR50D4R2
50	I^{2}C, SPI, TDM, IrDA	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2CT-ND◆§	82.61	74.75	68.85	MC860ENCVR50D4R2
50	I^{2}C, SPI, TDM, IrDA	4-16 Bit	3.3	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2TR-ND◆‡		9125.14/180		MC860ENCVR50D4R2
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC870CVR133-ND◆	26.13	24.68	23.23	MPC870CVR133
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~85	256-PBGA	MPC870VR133-ND◆	24.20	22.86	21.52	MPC870VR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC870VR66-ND◆	21.97	20.75	19.53	MPC870VR66
80	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC870VR80-ND◆	23.04	21.76	20.48	MPC870VR80
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC875CVR133-ND◆	36.24	34.23	32.21	MPC875CVR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC875CVR66-ND◆	32.89	31.07	29.24	MPC875CVR66
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC875VR133-ND◆	33.55	31.69	29.83	MPC875VR133
80	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	256-PBGA	MPC875VR80-ND◆	31.94	30.17	28.40	MPC875VR80
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC880CVR133-ND◆	46.79	44.20	41.60	MPC880CVR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC880CVR66-ND◆	42.44	40.08	37.73	MPC880CVR66
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC880VR133-ND◆	43.33	40.93	38.52	MPC880VR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC880VR66-ND◆	39.29	37.11	34.93	MPC880VR66
80	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC880VR80-ND◆	41.25	38.96	36.67	MPC880VR80
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC885CVR133-ND◆	56.69	53.54	50.39	MPC885CVR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC885CVR66-ND◆	48.91	45.61	42.31	MPC885CVR66
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	0 ~ 95	357-PBGA	MPC885CZP133-ND	56.69	53.54	50.39	MPC885CZP133
133	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC885VR133-ND◆	52.49	49.58	46.66	MPC885VR133
66	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC885VR66-ND◆	47.59	44.95	42.31	MPC885VR66
80	PCMCIA, I^{2}C, SPI, USB	4-16 Bit	3.3	-40 ~ 85	357-PBGA	MPC885VR80-ND◆	49.96	47.19	44.41	MPC885VR80
PowerQUICC™ II										
200	I^{2}C, SPI, DUART	—	1.8 ~ 3.3	0 ~ 105	357-PBGA	MPC8241LVR200D-ND◆	29.82	28.17	26.51	MPC8241LVR200D
266	I^{2}C	—	1.8 ~ 3.3	0 ~ 105	357-PBGA	MPC8241LVR266D-ND◆	37.56	35.48	33.39	MPC8241LVR266D
200	DUART, DUAL, I^{2}C DMA. 2-Ch.	32 bit	1.8	0 ~ 105	357-PBGA	MPC8241LZQ200D-ND ***NEW!***	29.83	26.52	26.52	MPC8241LZQ200D
400	DUART, I^{2}C	4-Ch.	3.3	0 ~ 85	352-TBGA	MPC8245ARVV400D-ND◆	99.14	93.64	88.13	MPC8245ARVV400D
400	DUART, I^{2}C	4-Ch.	3.3	0 ~ 85	352-TBGA	MPC8245ARZU400D-ND	99.14	93.64	88.13	MPC8245ARZU400D
266	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LVV266D-ND◆	58.40	55.16	51.91	MPC8245LVV266D
300	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LVV300D-ND◆	69.46	65.60	61.75	MPC8245LVV300D
333	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LVV333D-ND◆	73.44	69.37	65.29	MPC8245LVV333D
350	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LVV350D-ND◆	86.49	81.69	76.88	MPC8245LVV350D
266	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LZU266D-ND	58.40	55.16	51.91	MPC8245LZU266D

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

32-Bit Microcontrollers *(Cont.)*

Operating Frequency (MHz)	Features	Timer	Operating Voltage (V)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
							1	10	25	
300	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245LZU300D-ND	69.46	65.60	61.75	MPC8245LZU330D
266	DUART, I^{2}C	4-Ch.	3.3	-40 ~ 85	352-TBGA	MPC8245TVV266D-ND◆	75.93	71.72	67.50	MPC8245TVV266D
333	DUART, I^{2}C	—	3.3	-40 ~ 115	352-TBGA	MPC8245TVV333D-ND◆	95.47	90.17	84.87	MPC8245TVV333D
350	DUART, I^{2}C	—	3.3	-40 ~ 115	352-TBGA	MPC8245TVV350D-ND◆	76.98	72.18	68.57	MPC8245TVV350D
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8247CVRMIBA-ND◆	44.52	42.05	39.58	MPC8247CVRMIBA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8247CVRPIEA-ND◆	50.31	47.52	44.73	MPC8247CVRPIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8247CVRTIEA-ND◆	60.36	57.01	53.66	MPC8247CVRTIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-PBGA	MPC8247CZQMIBA-ND	44.52	42.05	39.58	MPC8247CZQMIBA
266	SPI, I^{2}C, TDM, USB	4-Ch.	1.5	0 ~ 105	516-PBGA	MPC8247VRMIBA-ND◆ ***NEW!***	40.48	38.24	35.99	MPC8247VRMIBA
300	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8247VRPIEA-ND◆	45.74	43.21	40.66	MPC8247VRPIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8247VRTIEA-ND◆	54.90	51.85	48.80	MPC8247VRTIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-PBGA	MPC8247ZQTIEA-ND	54.90	51.85	48.80	MPC8247ZQTIEA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8248CVRMIBA-ND◆	46.69	44.11	41.51	MPC8248CVRMIBA
300	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8248CVRPIEA-ND◆	52.78	49.85	46.92	MPC8248CVRPIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8248CVRTIEA-ND◆	63.34	59.82	56.30	MPC8248CVRTIEA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8248VRMIBA-ND◆	42.46	40.10	37.74	MPC8248VRMIBA
300	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8248VRPIEA-ND◆	48.00	45.34	42.67	MPC8248VRPIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8248VRTIEA-ND◆	57.56	54.37	51.17	MPC8248VRTIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8248VRTMFA-ND◆	64.50	60.92	57.34	MPC8248VRTMFA
200	SPI, I^{2}C, TDM, UTOPIA	4-Ch.	3.3	-40 ~ 115	516-PBGA	MPC8250ACVRIHBC-ND◆	80.38	75.92	71.46	MPC8250ACVRIHBC
266	SPI, I^{2}C, TDM, UTOPIA	4-Ch.	3.3	-40 ~ 115	480-TBGA	MPC8250ACZUMHBC-ND	137.03	129.42	121.81	MPC8250ACZUMHBC
200	SPI, I^{2}C, TDM, UTOPIA	4-Ch.	3.3	0 ~ 105	516-PBGA	MPC8250AVRIHBC-ND◆	73.07	69.02	64.96	MPC8250AVRIHBC
300	I^{2}C, MII, SPI, UART	4-Ch.	3.3	0 ~ 105	480-TBGA	MPC8250AVVPIBC-ND◆	112.78	105.74	100.45	MPC8250AVVPIBC
300	I^{2}C, MII, SPI, UART	4-Ch.	3.3	-40 ~ 115	480-TBGA	MPC8250AZUPIBC-ND	137.03	129.42	121.81	MPC8250AZUPIBC
266	SPI, I^{2}C, TDM, UTOPIA	4-Ch.	3.3	-40 ~ 115	480-TBGA	MPC8255ACVVMHBB-ND◆	173.40	163.78	154.14	MPC8255ACVVMHBB
266	I^{2}C, MII, SPI, UTOPIA	4-Ch.	3.3	0 ~ 105	480-TBGA	MPC8255AVVMHBB-ND◆	157.64	148.89	140.13	MPC8255AVVMHBB
266	I^{2}C, MII, SPI, TDM	4-16 Bit	3.3	-40 ~ 85	480-TBGA	MPC8260ACVVMHBB-ND◆	196.54	185.62	174.71	MPC8260ACVVMHBB
266	I^{2}C, MII, SPI, UTOPIA	4-Ch.	3.3	-40 ~ 105	480-TfBGA	MPC8260ACVVMIBB-ND◆	205.29	193.89	182.48	MPC8260ACVVMIBB
300	I^{2}C, MII, SPI, TDM	4-16 Bit	3.3	-40 ~ 85	480-TBGA	MPC8260AVVPJDB-ND◆	225.89	213.35	200.80	MPC8260AVVPJDB
266	I^{2}C, MII, SPI, TDM	4-Ch.	3.3	-40 ~ 105	480-TBGA	MPC8260AZUMHBB-ND	178.60	168.68	158.76	MPC8260AZUMHBB
300	I^{2}C, MII, SPI, TDM	4-Ch.	3.3	-40 ~ 105	480-TBGA	MPC8260AZUPIBB-ND	197.32	186.36	175.40	MPC8260AZUPIBB
300	I^{2}C, MII, SPI, TDM	4-Ch.	3.3	-40 ~ 105	480-TBGA	MPC8260AZUPJDB-ND	225.89	213.35	200.80	MPC8260AZUPJDB
300	SPI, I^{2}C, TDM, UTOPIA	4-Ch.	3.3	0 ~ 105	480-TBGA	MPC8265AVVPIBC-ND◆	219.67	207.47	195.27	MPC8265AVVPIBC
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8270CVRMIBA-ND◆	80.36	75.90	71.44	MPC8270CVRMIBA
333	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	480-FTBGA	MPC8270CVVQLDA-ND◆	110.19	104.07	97.95	MPC8270CVVQLDA
450	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	480-FTBGA	MPC8270CVVUPEA-ND◆	132.19	124.85	117.51	MPC8270CVVUPEA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-PBGA	MPC8270CZQMIBA-ND	80.36	75.90	71.44	MPC8270CZQMIBA
450	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	480-TBGA	MPC8270CZUUPEA-ND	132.19	124.85	117.51	MPC8270CZUUPEA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8270VRMIBA-ND◆	73.04	68.98	64.93	MPC8270VRMIBA
333	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	480-FTBGA	MPC8270VVQLDA-ND◆	100.14	94.58	89.01	MPC8270VVQLDA
450	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	480-FTBGA	MPC8270VVUPEA-ND◆	120.18	113.51	106.83	MPC8270VVUPEA
333	SPI, I^{2}C, TDM, USB, MII, Ethernet	4-Ch.	1.5	0 ~ 105	516-PBGA	MPC8270ZQMIBA-ND◆ ***NEW!***	73.04	68.98	64.93	MPC8270ZQMIBA
333	I^{2}C, MII, SPI, UTOPIA, USB	4-Ch.	3.3	-40 ~ 105	480-FTBGA	MPC8270ZUQLDA-ND	100.14	94.58	89.01	MPC8270ZUQLD
450	I^{2}C, MII, SPI, UTOPIA, USB	4-Ch.	3.3	-40 ~ 105	480-FTBGA	MPC8270ZUUPEA-ND	120.18	113.51	106.83	MPC8270ZUUPE
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8271CVRMIBA-ND◆	51.07	48.24	45.40	MPC8271CVRMIBA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8271CVRTIEA-ND◆	69.26	65.42	61.57	MPC8271CVRTIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8271VRTIEA-ND◆	62.97	59.47	55.97	MPC8271VRTIEA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8272CVRMIBA-ND◆	53.25	50.29	47.33	MPC8272CVRMIBA
300	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8272VRPIEA-ND◆	54.72	51.69	48.65	MPC8272VRPIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8272VRTIEA-ND◆	65.65	62.01	58.36	MPC8272VRTIEA
400	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8272VRTMFA-ND◆	73.52	69.44	65.36	MPC8272VRTMFA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	516-FPBGA	MPC8275CVRMIBA-ND◆	107.19	101.24	95.29	MPC8275CVRMIBA
266	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	516-FPBGA	MPC8275VRMIBA-ND◆	97.43	92.02	86.61	MPC8275VRMIBA
333	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	480-FTBGA	MPC8280CVVQLDA-ND◆	201.22	190.05	178.87	MPC8280CVVQLDA
450	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	-40 ~ 115	480-FTBGA	MPC8280CVVUPEA-ND◆	241.46	228.05	214.64	MPC8280CVVUPEA
450	SPI, I^{2}C, TDM, USB	4-Ch.	3.3	0 ~ 105	480-FTBGA	MPC8280VVUPEA-ND◆	219.52	207.33	195.13	MPC8280VVUPEA
450	I^{2}C, MII, SPI, UTOPIA, USB	4-Ch.	3.3	-40 ~ 105	480-FTBGA	MPC8280ZUUPEA-ND	219.52	207.33	195.13	MPC8280ZUUPE
PowerQUICC™ II Pro Processors										
333	DUART, SPI, I^{2}C, Ethernet	4-Ch.	3.3	-40 ~ 85	473-MAPBGA	MPC8308CVMADD-ND◆ ***NEW!***	22.55	21.31	20.05	MPC8308CVMADD
333	DUART, SPI, I^{2}C, Ethernet	4-Ch.	3.3	-40 ~ 85	473-MAPBGA	MPC8308CVMAFD-ND◆ ***NEW!***	25.24	23.84	22.44	MPC8308CVMAFD
333	DUART, SPI, I^{2}C, Ethernet	4-Ch.	3.3	0 ~ 105	473-MAPBGA	MPC8308VMADD-ND◆ ***NEW!***	20.48	19.35	18.21	MPC8308VMADD
333	DUART, SPI, I^{2}C, Ethernet	4-Ch.	3.3	0 ~ 105	473-MAPBGA	MPC8308VMAFD-ND◆ ***NEW!***	22.93	21.66	20.39	MPC8308VMAFD
333	DUART, SPI, I^{2}C, Ethernet	4-Ch.	3.3	0 ~ 105	473-MAPBGA	MPC8308VMAGD-ND◆ ***NEW!***	25.24	23.84	22.44	MPC8308VMAGD
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313CVRAFFB-ND◆	33.05	31.22	29.38	MPC8313CVRAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313CZQAFFB-ND◆	33.05	31.22	29.38	MPC8313CZQAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313ECVRAFFB-ND◆	38.01	35.90	33.79	MPC8313ECVRAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313ECZQAFFB-ND◆	38.01	35.90	33.79	MPC8313ECZQAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313EVRAFFB-ND◆	33.05	31.22	29.38	MPC8313EVRAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313EZQAFFB-ND◆	34.00	31.45	28.90	MPC8313EZQAFFB
400	SPI, I^{2}C, MII, UART, USB, Ethernet, eTSEC	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8313VRAFFB-ND◆	28.73	27.14	25.54	MPC8313VRAFFB
266	UART, SPI I^{2}C USB, TDM	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314CVRADDA-ND◆ ***NEW!***	34.35	32.45	30.54	MPC8314CVRADDA
333	SPI I^{2}C USB	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314CVRAFDA-ND◆ ***NEW!***	39.50	37.31	35.12	MPC8314CVRAFDA
400	SPI I^{2}C USB	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314CVRAGDA-ND◆ ***NEW!***	43.90	41.46	39.02	MPC8314CVRAGDA
266	Encryption Acceleration	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314ECVRADDA-ND◆ ***NEW!***	39.50	37.31	35.12	MPC8314ECVRADDA
333	Encryption Acceleration	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314ECVRAFDA-ND◆ ***NEW!***	45.41	42.89	40.37	MPC8314ECVRAFDA
400	Encryption Acceleration	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8314ECVRAGDA-ND◆ ***NEW!***	50.49	47.69	44.88	MPC8314ECVRAGDA
266	Encryption Acceleration	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314EVRADDA-ND◆ ***NEW!***	34.35	32.45	30.54	MPC8314EVRADDA
333	Encryption Acceleration	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314EVRAFDA-ND◆ ***NEW!***	39.50	37.31	35.12	MPC8314EVRAFDA
400	Encryption Acceleration	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314EVRAGDA-ND◆ ***NEW!***	43.90	41.46	39.02	MPC8314EVRAGDA
266	TDM VSB VART ILC	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314VRADDA-ND◆ ***NEW!***	29.86	28.21	26.55	MPC8314VRADDA
333	TDM VSB VART ILC	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314VRAFDA-ND◆ ***NEW!***	34.35	32.45	30.54	MPC8314VRAFDA
400	TDM VSB VART ILC	32 bit	3.3	0 ~ 105	620-PBGA	MPC8314VRAGDA-ND◆ ***NEW!***	38.18	36.06	33.94	MPC8314VRAGDA
266	TDM VSB VART ILC	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315CVRADDA-ND◆ ***NEW!***	38.74	36.60	34.44	MPC8315CVRADDA
333	TDM VSB VART ILC	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315CVRAFDA-ND◆ ***NEW!***	42.61	40.25	37.88	MPC8315CVRAFDA
400	TDM VSB VART ILC	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315CVRAGDA-ND◆ ***NEW!***	49.03	46.31	43.58	MPC8315CVRAGDA
266	I^{2}C MII SPI TDM USB	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315ECVRADDA-ND◆ ***NEW!***	44.56	42.09	39.61	MPC8315ECVRADDA
333	I^{2}C M^2 SPI TDM USB	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315ECVRAFDA-ND◆ ***NEW!***	49.03	46.31	43.58	MPC8315ECVRAFDA
400	I^{2}C M^2 SPI TDM USB	32 bit	3.3	-40 ~ 105	620-PBGA	MPC8315ECVRAGDA-ND◆ ***NEW!***	56.38	53.25	50.12	MPC8315ECVRAGDA
266	I^{2}C M^2 SPI TDM USB	32 bit	3.3	0 ~ 105	620-PBGA	MPC8315EVRADDA-ND◆ ***NEW!***	38.74	36.60	34.44	MPC8315EVRADDA
333	I^{2}C M^2 SPI TDM USB	32 bit	3.3	0 ~ 105	620-PBGA	MPC8315EVRAFDA-ND◆ ***NEW!***	42.61	40.25	37.88	MPC8315EVRAFDA

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

32-Bit Microcontrollers *(Cont.)*

Operating Frequency (MHz)	Features	Timer	Operating Voltage (V)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
							1	10	25	
400	I^2C M^2 SPI TDM USB	32 bit	3.3	0 ~ 105	620-PBGA	MPC8315EVRAGDA-ND◆ ***NEW!***	49.03	46.31	43.58	MPC8315EVRAGDA
266	TDM VSB VART ILC	32 bit	3.3	0 ~ 105	620-PBGA	MPC8315VRADDA-ND◆ ***NEW!***	33.69	31.82	29.95	MPC8315VRADDA
333	TDM VSB VART ILC	32 bit	3.3	0 ~ 105	620-PBGA	MPC8315VRAFDA-ND◆ ***NEW!***	37.07	35.02	32.96	MPC8315VRAFDA
266	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8321CVRADDC-ND◆	30.70	28.99	27.29	MPC8321CVRADDC
333	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8321CVRAFDC-ND◆	33.77	31.90	30.02	MPC8321CVRAFDC
266	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8321ECVRADDC-ND◆	33.77	31.90	30.02	MPC8321ECVRADDC
333	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8321ECVRAFDC-ND◆	37.15	35.09	33.03	MPC8321ECVRAFDC
333	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	0 ~ 105	516-PBGA	MPC8321EVRAFDC-ND◆	32.31	30.52	28.72	MPC8321EVRAFDC
266	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	0 ~ 105	516-PBGA	MPC8321VRADDC-ND◆	26.69	25.21	23.73	MPC8321VRADDC
333	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	0 ~ 105	516-PBGA	MPC8321VRAFDC-ND◆	29.37	27.75	26.11	MPC8321VRAFDC
333	MII or RMII, TDM, DUART, I2C	4-Ch.	3.3	-40 ~ 105	516-PBGA	MPC8323ECVRAFDC-ND◆	47.94	45.28	42.62	MPC8323ECVRFDC
333	MII or RMII, TDM, DUART, I2C	4-16 Bit	3.3	0 ~ 105	516-PBGA	MPC8323EVRAFDC-ND◆	41.68	39.37	37.05	MPC8323EVRAFDC
333	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	516-PBGA	MPC8323EZQAFDC-ND	41.68	39.37	37.05	MPC8323EZQAFDC
266	DUART, DUAL I2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	-40 ~ 105	620-PBGA	MPC8343CVRADDB-ND◆	55.09	51.38	47.65	MPC8343CVRADDB
400	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	620-PBGA	MPC8343EVRAGDB-ND◆	69.61	65.75	61.88	MPC8343EVRAGDB
400	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	620-PBGA	MPC8343VRAGDB-ND◆	60.54	57.18	53.81	MPC8343VRAGDB
400	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	-40 ~ 105	672-TBGA	MPC8347CVVAGDB-ND◆	75.54	71.35	67.15	MPC8347CVVAGDB
400	Encryption Acceleration	4-16 Bit	3.3	-40 ~ 105	620-PBGA	MPC8347ECVRAGDB-ND◆	86.88	82.06	77.23	MPC8347ECVRAGDB
400	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	620-PBGA	MPC8347EVRAGDB-ND◆	78.98	74.60	70.21	MPC8347EVRAGDB
533	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8347EVVAJFB-ND◆	120.76	114.06	107.35	MPC8347EVVAJFB
667	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8347EVVALFB-ND◆	131.24	123.95	116.66	MPC8347EVVALFB
266	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	620-PBGA	MPC8347VRADDB-ND◆	60.77	57.40	54.02	MPC8347VRADDB
400	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	620-PBGA	MPC8347VRAGDB-ND◆	68.68	64.87	61.05	MPC8347VRAGDB
400	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8347VVAGDB-ND◆	68.68	64.87	61.05	MPC8347VVAGDB
533	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8347VVAJFB-ND◆	105.01	99.19	93.35	MPC8347VVAJFB
667	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8347VVALFB-ND◆	114.11	107.78	101.44	MPC8347VVALFB
400	Encryption Acceleration	4-16 Bit	3.3	-40 ~ 105	672-TBGA	MPC8349ECVVAGDB-ND◆	110.91	104.75	98.59	MPC8349ECVVAGDB
533	Encryption Acceleration	4-16 Bit	3.3	-40 ~ 105	672-TBGA	MPC8349ECVVAJDB-ND◆	126.55	119.53	112.50	MPC8349ECVVAJDB
400	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349EVVAGDB-ND◆	100.84	95.24	89.64	MPC8349EVVAGDB
533	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349EVVAJFB-ND◆	132.31	124.96	117.61	MPC8349EVVAJFB
667	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349EVVALFB-ND◆	143.78	135.80	127.81	MPC8349EVVALFB
400	DUART, DUAL I2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349VVAGDB-ND◆	87.67	82.81	77.94	MPC8349VVAGDB
533	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349VVAJFB-ND◆	115.05	108.66	102.27	MPC8349VVAJFB
667	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	672-TBGA	MPC8349VVALFB-ND◆	125.02	118.08	111.13	MPC8349VVALFB
533	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	-40 ~ 105	740-TBGA	MPC8360CZUAJDG-ND	72.39	67.87	64.48	MPC8360CZUAJDG
533	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	740-TBGA	MPC8360EVVAJDG-ND◆	75.69	70.97	67.42	MPC8360EVVAJDG
667	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	740-TBGA	MPC8360EVVAJDGA-ND◆	110.54	104.40	98.26	MPC8360EVVAJDGA
533	Encryption Acceleration	4-16 Bit	3.3	0 ~ 105	740-TBGA	MPC8360EZUAJDGA-ND◆	110.54	104.40	98.26	MPC8360EZUAJDGA
400	DUART, DUAL I^2C, SPI, 4-Ch. DMA	4-16 Bit	3.3	0 ~ 105	740-TBGA	MPC8360VVAGDGA-ND◆	87.36	82.51	77.66	MPC8360VVAGDGA
400	SPI, I^2C, UART, Ethernet	4-Ch. DMA	3.3	-40 ~ 125	689-TEPBGA	MPC8377EVRAGD-ND◆	66.93	63.22	59.50	MPC8377EVRAGD
533	SPI, I^2C, UART, Ethernet	4-Ch. DMA	3.3	-40 ~ 125	689-TEPBGA	MPC8377EVRAJF-ND◆	73.62	69.53	65.44	MPC8377EVRAJF
667	SPI, I^2C, UART, Ethernet	4-Ch. DMA	3.3	-40 ~ 125	689-TEPBGA	MPC8377EVRALG-ND◆	83.67	79.03	74.38	MPC8377EVRALG
667	SPI, I^2C, UART, Ethernet	4-Ch. DMA	3.3	-40 ~ 125	689-TEPBGA	MPC8378EVRALG-ND◆	83.67	79.03	74.38	MPC8378EVRALG
800	MII, SPI, UART, USB	4-Ch. DMA	3.3	0 ~ 105	689-TEPBGA	MPC8378EVRANG-ND◆	98.74	93.25	87.77	MPC8378EVRANG
400	SPI, I^2C, UART, Ethernet	4-Ch. DMA	3.3	-40 ~ 125	689-TEPBGA	MPC8379EVRAGD-ND◆	80.31	75.85	71.39	MPC8379EVRAGD
1000	MCU PWRQUICC II	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8535BVTAQGA-ND◆ ***NEW!***	179.55	169.58	159.60	MPC8535BVTAQGA
1250	UART SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8535BVTATHA-ND◆ ***NEW!***	206.67	195.19	183.71	MPC8535BVTATHA
1250	UART SPI I^2C, Ethernet	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8535CVTATHA-ND◆ ***NEW!***	221.13	208.85	196.57	MPC8535CVTATHA
1000	Encryption Acceleration	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8535EBVTAQGA-ND◆ ***NEW!***	188.53	178.06	167.59	MPC8535EBVTAQGA
1250	Encryption Acceleration	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8535EBVTATHA-ND◆ ***NEW!***	216.99	204.94	192.88	MPC8535EBVTATHA
PowerQUICC™ III										
1000	UART, SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8535CVTAQGA-ND◆ ***NEW!***	190.30	179.72	169.15	MPC8535CVTAQGA
800	UART, SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536BVTANGA-ND◆ ***NEW!***	179.53	169.56	159.59	MPC8536BVTANGA
1250	UART, SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536BVTATHA-ND◆ ***NEW!***	220.20	207.97	195.74	MPC8536BVTATHA
1333	UART, SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536BVTAULA-ND◆ ***NEW!***	296.01	279.57	263.13	MPC8536BVTAULA
1500	UART, SPI I^2C, Ethernet	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536BVTAVLA-ND◆ ***NEW!***	315.59	298.06	280.53	MPC8536BVTAVLA
1250	UART, SPI I^2C, Ethernet	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536CVTATHA-ND◆ ***NEW!***	235.57	222.49	209.40	MPC8536CVTATHA
1333	UART, SPI I^2C, Ethernet	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536CVTAULA-ND◆ ***NEW!***	325.62	307.53	289.45	MPC8536CVTAULA
1500	UART, SPI I^2C, Ethernet	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536CVTAVLA-ND◆ ***NEW!***	353.44	333.81	314.17	MPC8536CVTAVLA
1000	Encryption Acceleration	32 Bit	3.3	0 ~ 90	783-FCPBGA	MPC8536EAVTAQGA-ND◆ ***NEW!***	189.46	178.94	168.42	MPC8536EAVTAQGA
1500	Encryption Acceleration	32 Bit	3.3	0 ~ 90	783-FCPBGA	MPC8536EAVTAVLA-ND◆ ***NEW!***	301.49	284.75	268.00	MPC8536EAVTAVLA
600	Encryption Acceleration	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTAKGA-ND◆ ***NEW!***	177.88	168.00	158.12	MPC8536EBVTAKGA
800	Encryption Acceleration	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTANGA-ND◆ ***NEW!***	188.53	178.06	167.59	MPC8536EBVTANGA
1000	Encryption Acceleration	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTAQGA-ND◆ ***NEW!***	200.83	189.68	178.52	MPC8536EBVTAQGA
1250	ILC USB ATA Controller	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTATHA-ND◆ ***NEW!***	231.18	218.34	205.50	MPC8536EBVTATHA
1333	ILC USB ATA Controller	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTAULA-ND◆ ***NEW!***	316.72	299.13	281.53	MPC8536EBVTAULA
1500	ILC USB ATA Controller	32 Bit	3.3	0 ~ 105	783-FCPBGA	MPC8536EBVTAVLA-ND◆ ***NEW!***	337.67	318.92	300.16	MPC8536EBVTAVLA
600	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTAKGA-ND◆ ***NEW!***	188.53	178.06	167.59	MPC8536ECVTAKGA
800	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTANGA-ND◆ ***NEW!***	199.82	188.73	177.63	MPC8536ECVTANGA
1000	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTAQGA-ND◆ ***NEW!***	212.89	201.06	189.24	MPC8536ECVTAQGA
1250	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTATHA-ND◆ ***NEW!***	247.37	233.64	219.89	MPC8536ECVTATHA
1333	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTAULA-ND◆ ***NEW!***	348.38	329.03	309.68	MPC8536ECVTAULA
1500	ILC USB ATA Controller	32 Bit	3.3	-40 ~ 105	783-FCPBGA	MPC8536ECVTAVLA-ND◆ ***NEW!***	378.19	357.18	336.17	MPC8536ECVTAVLA
667	SPI, I^2C, DUART	WDT	3.3	-40 ~ 105	783-FCPBGA	MPC8540CVT667JB-ND◆	167.43	158.78	153.58	MPC8540CVT667JB
667	SPI, I^2C, DUART	WDT	3.3	0 ~ 105	783-FCPBGA	MPC8540PX667LB-ND	152.21	144.34	139.61	MPC8540PX667LB
833	SPI, I^2C, DUART	WDT	3.3	0 ~ 105	783-FCPBGA	MPC8540PX833LB-ND	175.04	165.99	160.56	MPC8540PX833LB
667	SPI, I^2C, DUART	WDT	3.3	0 ~ 105	783-FCPBGA	MPC8540VT667LB-ND◆	152.21	144.34	139.61	MPC8540VT667LB
833	SPI, I^2C, DUART	WDT	3.3	0 ~ 105	783-FCPBGA	MPC8540VT833LB-ND◆	175.04	165.99	160.56	MPC8540VT833LB
533	Encryption Acceleration	—	3.3	-40 ~ 105	783-FCPBGA	MPC8541ECVTAJD-ND◆	184.45	174.20	163.96	MPC8541ECVTAJD
667	Encryption Acceleration	—	3.3	-40 ~ 105	783-FCPBGA	MPC8541ECVTALF-ND◆	151.32	143.50	138.80	MPC8541ECVTALF
833	Encryption Acceleration	—	3.3	0 ~ 105	783-FCPBGA	MPC8541EPXAPF-ND	212.11	200.33	188.55	MPC8541EPXAPF
533	Encryption Acceleration	—	3.3	0 ~ 105	783-FCPBGA	MPC8541EVTAJD-ND◆	167.67	158.36	149.04	MPC8541EVTAJD
667	Encryption Acceleration	—	3.3	0 ~ 105	783-FCPBGA	MPC8541EVTALF-ND◆	144.69	135.21	130.46	MPC8541EVTALF
833	Encryption Acceleration	—	3.3	0 ~ 105	783-FCPBGA	MPC8541EVTAPF-ND◆	212.11	200.33	188.55	MPC8541EVTAPF

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

32-Bit Microcontrollers *(Cont.)*

Operating Frequency (MHz)	Features	Timer	Operating Voltage (V)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
							1	10	25	
833	SPI, I^{2}C, DUART	—	3.3	0 ~ 105	783-FCPBGA	MPC8541VTAPF-ND◆	201.50	190.31	179.11	MPC8541VTAPF
800	I^{2}C, UART	—	3.3	0 ~ 105	783-FCPBGA	MPC8543VTANGB-ND◆	162.25	153.24	144.22	MPC8543VTANGB
533	I^{2}C, MII, UART	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8545EPXAQGB-ND◆	192.53	181.84	171.15	MPC8545EPXAQGB
533	I^{2}C, MII, UART	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8545EPXATGB-ND◆	212.27	200.48	188.69	MPC8545EPXATGB
1000	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548EPXAQGB-ND◆	221.71	209.40	197.08	MPC8548EPXAQGB
1333	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548EPXAUJB-ND◆	281.80	266.15	250.50	MPC8548EPXAUJB
1000	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548EVTAQGB-ND◆	221.71	209.40	197.08	MPC8548EVTAQGB
1333	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548EVTAUJB-ND◆	281.80	266.15	250.50	MPC8548EVTAUJB
1000	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548PXAQGB-ND◆	157.50	149.36	144.47	MPC8548PXAQGB
1333	Encryption Acceleration	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8548VTAUJB-ND◆	268.39	253.48	238.57	MPC8548VTAUJB
667	Encryption Acceleration	RT/WDT	3.3	-40 ~ 105	783-FCPBGA	MPC8555ECPXALF-ND	223.17	210.78	198.38	MPC8555ECPXALF
667	Encryption Acceleration	RT/WDT	3.3	-40 ~ 105	783-FCPBGA	MPC8555ECVTALF-ND◆	223.17	210.78	198.38	MPC8555ECVTALF
833	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	0 ~ 105	783-FCPBGA	MPC8555EVTAPF-ND◆	233.32	220.36	207.40	MPC8555EVTAPF
667	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	-40 ~ 85	783-FCPBGA	MPC8560CVT667JB-ND◆	200.91	190.52	184.29	MPC8560CVT667JB
667	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	0 ~ 105	783-PBGA	MPC8560PX667LB-ND	182.66	173.21	167.54	MPC8560PX667LB
833	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	0 ~ 105	783-PBGA	MPC8560PX833LB-ND	210.05	199.19	192.67	MPC8560PX833LB
667	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	-40 ~ 105	783-FCPBGA	MPC8560VT667LB-ND◆	182.66	173.21	167.54	MPC8560VT667LB
833	I^{2}C, Ethernet, HDLC	RT/WDT	3.3	-40 ~ 105	783-FCPBGA	MPC8560VT833LB-ND◆	210.05	199.19	192.67	MPC8560VT833LB
800	I^{2}C, DUART, 4-Ch. DMA, LBC	32 bit	1.1	-55 ~ 150	1023-FCPBGA	MPC8567VTANGG-ND◆ ***NEW!***	218.56	206.43	194.28	MPC8567VTANGG
1000	I^{2}C, DUART, 4-Ch. DMA, LBC	32 bit	1.1	-55 ~ 150	1023-FCPBGA	MPC8567VTAQGG-ND◆ ***NEW!***	244.44	230.86	217.28	MPC8567VTAQGG
NEW! i.MX ARM Processors — RoHS Compliant NEW!										
400	ATA Controller, LCD Video Controller	32 bit	3.1	-40 ~ 85	473-MAPBGA	MCIMX27MJP4A-ND	23.81	22.50	21.17	MCIMX27MJP4A
400	ATA Controller, LCD Video Controller	32 bit	3.1	-40 ~ 85	473-MAPBGA	MCIMX31CJMN4D-ND	45.25	42.74	40.23	MCIMX31CJMN4D
454	SPI, I^{2}C, UART	16 bit	1.4	-40 ~ 85	128-LQFP	MCIMX233CAG4B-ND	11.12	10.51	9.89	MCIMX233CAG4B
532	ATA Controller, LCD Video Controller	32 bit	3.1	-40 ~ 85	400-MAPBGA	MCIMX356AJQ5C-ND	25.92	24.48	23.04	MCIMX356AJQ5C
M-CORE Processors — RoHS Compliant										
33	Dual, SCI, SPI	4-Ch.	2.7 ~ 3.6	-40 ~ 85	144-LQFP	MMC2107CFCAG33-ND	26.94	25.45	23.95	MMC2107CFCAG33
NEW! QorIQ™ P2 Processors — RoHS Compliant NEW!										
1200	Processor Comm	—	—	0 ~ 105	689-PBGA	P2020PSE2HZB-ND	106.67	100.01	95.01	P2020PSE2HZB
1200	Processor Comm	—	—	0 ~ 105	689-PBGA	P2020PSE2KZA-ND	155.54	146.90	138.26	P2020PSE2KZA
1200	Processor Comm	—	—	0 ~ 105	689-PBGA	P2020PSE2MZB-ND	146.40	136.80	132.00	P2020PSE2MZB
68K Family Processors										
16	SCP, TDM	4-Ch.	5	-40 ~ 120	144-LQFP	MC68302AG16VC-ND◆	43.55	40.61	37.67	MC68302AG16VC
20	SCP, TDM	4-Ch.	5	0 ~ 105	144-LQFP	MC68302AG20C-ND◆	38.68	36.07	33.46	MC68302AG20C
25	SCP, TDM	4-Ch.	5	0 ~ 105	144-LQFP	MC68302AG25C-ND◆	42.53	39.66	36.79	MC68302AG25C
33	SCP, TDM	4-Ch.	5	0 ~ 105	144-LQFP	MC68302AG33C-ND◆	38.29	35.71	33.12	MC68302AG33C
16	SCP, TDM	4-Ch.	5	-40 ~ 120	144-LQFP	MC68302CAG16VC-ND◆	43.15	40.25	37.34	MC68302CAG16VC
16	SCP, TDM	4-Ch.	5	0 ~ 70	132-PQFP	MC68302EH16C-ND◆	38.70	35.80	32.90	MC68302EH16C
20	SCP, TDM	4-Ch.	5	0 ~ 105	132-PQFP	MC68302EH20C-ND◆	32.73	30.52	28.31	MC68302EH20C
25	SCP, TDM	4-Ch.	5	0 ~ 105	132-PQFP	MC68302EH25C-ND◆	43.49	40.56	37.62	MC68302EH25C
16	SCP, TDM	4-Ch.	5	0 ~ 70	132-PGA	MC68302RC16C-ND	93.46	87.62	83.24	MC68302RC16C
16	SCP, TDM	4-Ch.	3.3	-40 ~ 85	100-TQFP	MC68LC302AF16CT-ND◆	22.72	21.02	19.32	MC68LC302AF16CT
16	SCP, TDM	4-Ch.	3.3	-40 ~ 105	100-LQFP	MC68LC302AF16VCT-ND◆	26.15	24.20	22.24	MC68LC302AF16VCT
20	SCP, TDM	4-Ch.	3.3	-40 ~ 85	100-TQFP	MC68LC302AF20CT-ND◆	27.22	25.18	23.14	MC68LC302AF20CT
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	144-LQFP	MC68332ACAG16-ND◆ ***NEW!***	24.71	23.35	21.97	MC68332ACAG16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	144-LQFP	MC68332ACAG20-ND◆ ***NEW!***	25.94	24.50	23.06	MC68332ACAG20
25	SCI, Queued, SPI	TPU	5	-40 ~ 85	132-PQFP	MC68332ACEH25-ND◆	32.70	30.89	29.07	MC68332ACEH25
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 125	132-QFP	MC68332AMEH16-ND◆ ***NEW!***	32.71	30.89	29.08	MC68332AMEH16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 125	132-QFP	MC68332AMEH20-ND◆ ***NEW!***	34.16	32.27	30.37	MC68332AMEH20
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	144-LQFP	MC68332AVAG25-ND◆ ***NEW!***	28.40	26.83	25.25	MC68332AVAG25
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	132-QFP	MC68332AVEH16-ND◆ ***NEW!***	31.19	29.47	27.73	MC68332AVEH16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	132-QFP	MC68332AVEH20-ND◆ ***NEW!***	32.71	30.89	29.08	MC68332AVEH20
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	132-QFP	MC68332AVEH25-ND◆ ***NEW!***	34.16	32.27	30.37	MC68332AVEH25
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	144-LQFP	MC68332GCAG16-ND◆ ***NEW!***	24.71	23.35	21.97	MC68332GCAG16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	144-LQFP	MC68332GCAG20-ND◆ ***NEW!***	25.94	24.50	23.06	MC68332GCAG20
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	144-LQFP	MC68332GCAG25-ND◆ ***NEW!***	27.18	25.67	24.16	MC68332GCAG25
16	SCI, Queued, SPI	TPU	5	-40 ~ 85	132-PQFP	MC68332GCEH16-ND◆	29.70	28.06	26.41	MC68332GCEH16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	132-QFP	MC68332GCEH20-ND◆ ***NEW!***	31.19	29.47	27.73	MC68332GCEH20
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 85	132-QFP	MC68332GCEH25-ND◆ ***NEW!***	32.71	30.89	29.08	MC68332GCEH25
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 125	132-QFP	MC68332GMEH16-ND◆ ***NEW!***	32.71	30.89	29.08	MC68332GMEH16
20	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 125	132-QFP	MC68332GMEH20-ND◆ ***NEW!***	34.16	32.27	30.37	MC68332GMEH20
16	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	144-LQFP	MC68332GVAG16-ND◆ ***NEW!***	25.94	24.50	23.06	MC68332GVAG16
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	144-LQFP	MC68332GVAG25-ND◆ ***NEW!***	28.40	26.83	25.25	MC68332GVAG25
25	EBI/EMI, SCI, SPI, UART/USART	32-Bit	4.5 ~ 5.5	-40 ~ 105	132-QFP	MC68332GVEH25-ND◆ ***NEW!***	34.16	32.27	30.37	MC68332GVEH25
16	SCI, Queued, SPI	TPU	3.5	-40 ~ 85	144-LQFP	MC68LK332ACAG16-ND◆	27.18	25.67	24.16	MC68LK332ACAG16
20	SCI, Queued, SPI	TPU	5	-40 ~ 85	132-PQFP	MC68332ACEH20-ND◆	31.20	29.47	27.74	MC68332ACEH20
33	—	—	5	-40 ~ 85	184-CQFP	MC68EC040FE33A-ND◆	193.62	182.87	172.11	MC68EC040FE33A
25	—	—	5	-40 ~ 85	179-PGA	MC68LC040RC25A-ND◆	265.01	250.29	235.57	MC68LC040RC25A
50	—	—	3.3	-40 ~ 85	206-PGA	MC68EC060RC50-ND	228.13	215.46	202.79	MC68EC060RC50
16	—	—	5	-40 ~ 85	64-QFP	MC68SEC000AA16-ND◆	15.44	14.58	13.73	MC68SEC000AA16
16	SCI, Queued, SPI	GPT	5	-40 ~ 85	144-LQFP	MC68331CAG16-ND◆	21.77	20.57	19.36	MC68331CAG16
16	SCI, Queued, SPI	GPT	5	-40 ~ 85	132-PQFP	MC68331CEH16-ND◆	26.77	25.29	23.80	MC68331CEH16
50	—	—	5	-40 ~ 85	206-PGA	MC68060RC50-ND	834.11	787.78	741.44	MC68060RC50
16	DUART	2-16 Bit	3.3 ~ 5.0	-40 ~ 85	144-CQFP	MC68340FE16E-ND◆	70.63	66.71	62.78	MC68340FE16E
25	DUART	2-16 Bit	3.3 ~ 5.0	-40 ~ 85	144-CQFP	MC68340FE25E-ND◆	95.35	90.06	84.76	MC68340FE25E
33	SPI, UART	4-Ch.	5	-40 ~ 85	240-PQFP	MC68360AI25L-ND◆	65.62	61.76	57.90	MC68360AI25L
25	—	—	5	-40 ~ 85	132-CQFP	MC68EC030FE25C-ND	45.25	42.19	39.14	MC68EC030FE25C
40	—	—	5	0 ~ 70	132-CQFP	MC68EC030FE40C-ND	56.25	52.84	50.28	MC68EC030FE40C
20	SCP, DUART	3-Ch.	5	-40 ~ 85	144-TQFP	MC68EN302AG20BT-ND◆	48.36	45.10	41.83	MC68EN302AG20BT
25	SCP, DUART	3-Ch.	5	-40 ~ 85	144-TQFP	MC68EN302AG25BT-ND◆	44.15	41.56	38.95	MC68EN302AG25BT
25	UART, SPI, TDM	4-Ch.	5	-40 ~ 85	357-PBGA	MC68EN360VR25L-ND◆	59.79	56.17	53.46	MC68EN360VR25L
16	—	—	5	-40 ~ 85	68-PLCC	MC68HC000EI16-ND◆	14.20	12.91	11.94	MC68HC000EI16
16	—	—	5	0 ~ 70	68-PLCC	MC68HC000IEI16-ND◆	24.70	22.86	21.00	MC68HC000IEI16
16	—	—	5	0 ~ 70	64-TQFP	MC68SEC000AA16R2CT-ND◆§	15.99	14.46	12.30	MC68SEC000AA16R2
16	—	—	5	0 ~ 70	64-TQFP	MC68SEC000AA16R2TR-ND◆‡		6431.39/750		MC68SEC000AA16R2

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

32-Bit Development Tools

Device Numbers	Series	Digi-Key Part No.	Price Each	Freescale Part No.
MCF5211	ColdFire™	M5211DEMO-ND◆	99.00	M5211DEMO
MCF5213	ColdFire	M5213EVBE-ND◆	299.10	M5213EVBE
MCF547X	ColdFire	M5474LITEKIT-ND	350.00	M5474LITEKIT
MCF548X	ColdFire	M5484LITEKITE-ND◆	350.00	M5484LITEKITE
MCF5221X	ColdFire	M52211EVB-ND◆	299.00	M52211EVB
MCF5222X	ColdFire	M52221DEMO-ND◆	119.00	M52221DEMO
MCF5222X	ColdFire	M52223EVB-ND◆	299.10	M52223EVB
MCF5223X	ColdFire	M52233DEMO-ND◆	99.00	M52233DEMO
MCF5223X	ColdFire	M52235EVB-ND◆	299.00	M52235EVB
MCF5225X	ColdFire	M52259DEMOKIT-ND◆	99.00	M52259DEMOKIT
MCF53010	V3 ColdFire	MCF53010CQT240-ND◆ ***NEW!***	19.32	MCF53010CQT240
MCF53011	V3 ColdFire	MCF53011CQT240-ND◆ ***NEW!***	21.74	MCF53011CQT240
MCF53012	V3 ColdFire	MCF53012CQT240-ND◆ ***NEW!***	21.96	MCF53012CQT240
MCF53013	V3 ColdFire	MCF53013CQT240-ND◆ ***NEW!***	24.16	MCF53013CQT240
MCF53017	ColdFire	M53017KIT-ND◆ ***NEW!***	799.00	M53017KIT
MCF5445X	ColdFire	M54455EVB-ND◆	850.00	M54455EVB
MCF5445X	ColdFire	M5485AFEE-ND◆	276.10	M5485AFEE
MCF548X	ColdFire	M5485BFEE-ND◆	311.50	M5485BFEE

Device Numbers	Series	Digi-Key Part No.	Price Each	Freescale Part No.
MCIMX35	i.MX35	MCIMX35WPDKJ-ND◆ ***NEW!***	995.00	MCIMX35WPDKJ
MCIMX51	i.MX51	MCIMX51EVKJ-ND◆ ***NEW!***	699.00	MCIMX51EVKJ
MPC8308	PowerQUICC™ II Pro	MPC8308-RDB-ND ***NEW!***	317.69	MPC8308-RDB
MPC8313E	PowerQUICC II Pro	MPC8313E-RDB-ND◆	317.69	MPC8313E-RDB
MPC8313E	PowerQUICC II Pro	MPC8313E-RDBB-ND◆ ***NEW!***	299.00	MPC8313E-RDBB
MPC8315E	PowerQUICC II Pro	MPC8315E-RDB-ND	530.19	MPC8315E-RDB
MPC8315E	PowerQUICC II Pro	MPC8315E-RDBA-ND◆ ***NEW!***	530.19	MPC8315E-RDBA
MPC8323E	PowerQUICC II Pro	MPC8323E-RDB-ND◆	423.94	MPC8323E-RDB
MPC8349E	PowerQUICC II Pro	MPC8349E-MITXE-ND◆	742.69	MPC8349E-MITXE
MPC8360E	PowerQUICC II Pro	MPC8360E-RDK-ND◆	1061.44	MPC8360E-RDK
MPC8360EA	PowerQUICC II Pro	MPC8360EA-MDS-PB-ND◆ ***NEW!***	1487.50	MPC8360EA-MDS-PB
MPC8379E	PowerQUICC II Pro	MPC8379E-RDBA-ND◆ ***NEW!***	742.69	MPC8379E-RDBA
MPC8536	PowerQUICC III™	MPC8536DS-ND◆ ***NEW!***	3394.99	MPC8536DS
MPC8544	PowerQUICC III	MPC8544DS-ND◆ ***NEW!***	3607.19	MPC8544DS
MPC8572E	PowerQUICC III	MPC8572DS-ND◆ ***NEW!***	3995.00	MPC8572DS
M53015	ColdFire	M53015EVB-ND◆ ***NEW!***	599.00	M53015
M53017	V3 ColdFire	M53017MOD-ND◆ ***NEW!***	235.00	M53017MOD
MCF51EM	ColdFire	DEMOEM-ND ***NEW!***	99.00	DEMOEM
P2020E	QorIQ™	P2020DS-PA-ND◆ ***NEW!***	3718.75	P2020DS-PA

◆ RoHS Compliant

CAN	A/D Converter	Oper. Freq. MHz	Internal Flash (Bytes)	Internal RAM (Bytes)	Package	Serial	Supply Voltage (V) Min. ~ Max.	Timers - Channels	Timers - Number of	Timers - Size (Bit)	Temperature (°C)	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
Felix™ JM USB Microcontroller Family — RoHS Compliant																
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G80	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64EVLK-ND	7.52	7.11	6.69	MCF51JM64EVLK
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G44	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64VLD-ND	6.10	5.77	5.43	MCF51JM64VLD
—	8-Ch., 12-Bit	50	64K	8K	FL-PQFP-G64	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	4, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64VLH-ND	6.26	5.92	5.57	MCF51JM64VLH
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G80	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64VLK-ND	6.45	6.10	5.74	MCF51JM64VLK
CAN	12-Ch., 12-Bit	50	64K	8K	PQFP-G64	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64VQH-ND	6.26	5.92	5.57	MCF51JM64VQH
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G80	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128EVLK-ND	8.16	7.72	7.26	MCF51JM128EVL
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G44	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128VLD-ND	6.75	6.38	6.00	MCF51JM128VLD
—	8-Ch., 12-Bit	50	64K	8K	FL-PQFP-G64	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	4, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128VLH-ND	6.90	6.52	6.14	MCF51JM128VLH
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G80	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128VLK-ND	7.10	6.71	6.31	MCF51JM128VLH
CAN	12-Ch., 12-Bit	50	64K	8K	PQFP-G64	SCI, SPI, I2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128VQH-ND	6.90	6.52	6.14	MCF51JM128VQH

Flexis™ Microcontroller Series

The DEMOQE128 is a low-cost development system designed for demonstrating, evaluating and debugging the Freescale MC9S08QE128 and MCF51QE128 microcontrollers. The board supports two interchangeable plug-in daughter cards to quickly evaluate the 8-bit S08 and 32-bit ColdFire™ V1QE128 microcontrollers.

DEMOQE128-ND **$99.00**

The EVBQE128 Evaluation Board has been designed for the evaluation, demonstration and debugging of the Freescale Flexis QE128 Microcontrollers (MC9S08QE128 and MCF51QE128). The EVBQE128 can be used as a standalone application or can be controlled by a host PC via its built-in microDART™ interface.

EVBQE128-ND **$325.00**

Flexis™ JM Development Tools

The DEMOJM is a cost-effective kit enabling quick microcontroller evaluation. The kit includes a DEMOJM base board, a red MCF51JM128 daughter card, and a green MC9S08JM60 daughter card. The included kit can first be used to demonstrate the features of the MC9S08JM60 devices, starting with an on-chip USB device controller and transceiver. Then, move to MCF51JM128 with an on-chip USB host and device dual-role controller.

DEMOJM-ND **$99.00**

The EVB51JM128 is a low-cost development system for the Freescale MCF51JM128 ColdFire® microcontroller, which is a part of the Freescale FLEXIS Microcontroller Continuum.

CodeWarrior Development Tools provide support for quick and easy application development and debug.

EVB51JM128-ND **$325.00**

Tower Systems

The Tower System is a modular and reconfigurable development platform designed to speed your time to market and reduce your hardware investment. This modular approach allows you to design and develop embedded systems for many different applications. Each module in the Tower System is sold individually or as a complete kit. Over time, new modules and kits will become available as part of the Tower System. With hardware schematics provided, you can even design your own custom module.

• **TWR-MCF51CN:** MCF51CN V1 ColdFire® Ethernet Module, USB cable, interactive DVD with instructions, software, tutorials and more. Lab Tutorials and Quick Start Guide included **TWR-MCF51CN-KIT:** This module is part of the Freescale Tower System, a modular development platform that enables rapid prototyping and tool re-use through reconfigurable hardware. Includes TWR-MCF51CN, TWR-SER and TWR-ELEV • **TWR-SER:** Serial module for the tower system features Ethernet, USB, RS232/485, and CAN. Includes Ethernet cable and USB cable • **TWR-ELEV:** Elevator boards for the Tower System. Two I/O boards included • **TWR-PROTO:** Proto Board module for Tower System • **TWR-MCF5225X:** MCF5225X module for Tower System • **TWR-MCF5225X-KIT:** Tower System kit with MCF5225X module • **TWR-S08LL64:** S08LL64 module for Tower System • **TWR-S08LL64-KIT:** Tower System kit with S08LL64 module • **TWR-LCD:** LCD module for Tower System • **TWR-MEM:** Memory module for Tower System • **TWR-MPC5125-KIT-ND:** Tower System Kit for TWR-MPC5125 • **TWR-S08LH64-KIT-ND:** Kit Tower System for TWR-S08LH64 • **TWR-SENSOR-PAK-ND:** modular development platform for 8-, 16- and 32-bit microcontrollers that enables advanced development through rapid prototyping.

TWR-MCF51CN-ND	**$39.00**
TWR-MCF51CN-KIT-ND	**$99.00**
TWR-SER-ND	**$49.00**
TWR-ELEV-ND	**$29.00**
TWR-PROTO-ND *NEW!*	**$14.99**
TWR-MCF5225X-ND *NEW!*	**$49.00**
TWR-MCF5225X-KIT-ND *NEW!*	**$119.00**
TWR-S08LL64-ND *NEW!*	**$69.00**
TWR-S08LL64-KIT-ND *NEW!*	**$99.00**
TWR-LCD-ND *NEW!*	**$99.00**
TWR-MEM-ND *NEW!*	**$89.00**
TWR-MPC5125-ND *NEW!*	**$119.00**
TWR-MPC5125-KIT-ND *NEW!*	**$169.00**
TWR-S08LH64-ND *NEW!*	**$69.00**
TWR-S08LH64-KIT-ND *NEW!*	**$99.00**
TWR-SENSOR-PAK-ND *NEW!*	**$149.00**

freescale™ semiconductor

MPC744X High Performance PowerPC Processor

The MPC744X processor is a high-performance, low-power, 32-Bit implementation of the RISC architecture. Features include 512KB of on-chip L2 cache, a 64-Bit bus interface and a full 128-Bit AltiVec™ technology. MPC744Xprocessors are ideal for leading-edge computing, embedded and signal processing applications.

Bus Frequency (MHz)	Cache (KB)	Operating Frequency	Core Voltage	L2 Cache (KB)	Package	Digi-Key Part No.	Price Each 1	10	25	Freescale Part No.
167	576	733	1.1	512	360-FCCLGA	MC7447AVS733NB-ND	115.12	107.58	103.80	MC7447AVS733NB
167	576	1000	1.3	512	360-FCCLGA	MC7447AVS1000LB-ND	122.46	119.21	—	MC7447AVS1000LB
167	576	1000	1.1	512	360-FCCLGA	MC7447AVS1000NB-ND	165.79	157.22	152.08	MC7447AVS1000NB
167	576	1333	1.1	512	360-FCCLGA	MC7447AVS1333LB-ND	449.76	424.78	399.80	MC7447AVS1333LB
167	576	1000	1.1	512	360-FCCBGA	MC7447AHX1000NB-ND	222.28	209.93	197.58	MC7447AHX1000NB
167	576	1420	1.1	512	360-FCCBGA	MC7447AHX1420LB-ND	380.48	366.40	359.35	MC7447AHX1420LB
167	576	600	1.1	512	360-FCCBGA	MC7447AHX600NB-ND	88.80	83.25	79.09	MC7447AHX600NB
167	576	1000	1.1	512	360-FCCBGA	MC7447ATHX1000NB-ND	419.11	395.83	372.54	MC7447ATHX1000NB
—	576	1000	1.1	512	360-FCCBGA	MC7447AVU1000NB-ND	222.28	209.93	197.58	MC7447AVU1000NB
200	32	1400	1.3	1M	360-FCCBGA	MC7448HX1400ND-ND	563.80	532.48	501.16	MC7448HX1400ND
200	32	1267	1.3	1M	360-FCCBGA	MC7448THX1267ND-ND	866.97	818.80	770.64	MC7448THX1267ND

XMOS™

NEW! XC-1 Development Kit

The XC-1 development kit is a quick and cost effective route to trying out your design ideas using XMOS chips. The kit includes the XC-1 development card, USB programming/power cable, and access to the online development tools, tutorials and documentation. **Features:** • XS1-G4 four-XCore™ 400MHz device: 1600MIPS, 256KB RAM, 32KB OTP **Development board features:** • USB power and host debugger connection • Four pushbutton and LED pairs • 12 bi-color LEDs • Integrated speaker (can be driven via software DAC) • 60 pins user I/O expansion from two XCores™ • Two external port expansion connections • Credit card size (85 x 54 mm) **Complete development tool suite:** • C and XC compilers, linker and mapper • Simulator, visualization tools and in-circuit visual debugger **Tutorial suite with examples:** • Clock/Countdown timer, audio synthesizer, reaction game and more

XCARD XC-1A-ND (XCARD XC-1A) **$99.00**

XC-3 Development Kit

The XC-3 is an Event-Driven Processor development board that can be used as a LED tile controller. It comprises a single XS1-G4 device, two LED module connectors, two 10/100-BASE-T Ethernet transceiver units, 4Mbits SPI flash memory, one press-button. A GPIO header is provided for connecting additional components, and an XSYS connector can be used to interface the card with a PC.

The XC-3 Development Kit also includes a power supply and XTAG connector for booting the device from a PC. The card is fitted with four plastic feet, which can be removed to provide access to mounting holes for product integration.

880-1015-ND (XCARD XC-3) **$149.00**

NEW! XK-1 and XTAG-2 Development Kits

The XK-1 is a low cost development board intended for exploring event-driven processor designs. It comprises a single XS1-L1 device, 128KBytes SPI FLASH memory, four LEDs and two press-button switches. Two XSYS connectors let you link multiple XK-1 boards together in a chain and two banks of 0.1" IDC connectors are provided for connecting additional components to the XK-1. An XTAG-2 debug adapter can be used to connect the XK-1 to a USB 2.0 port on a PC, providing a JTAG interface that can be used to load and debug programs on the board. The XK-1 can be powered directly from the XTAG-2 debug adapter or from an external 5V power supply.

The XTAG-2 debug adapter converts between an XMOS an XMOS XSYS connector and USB 2.0, providing pins for JTAG control, system reset, processor debug, one duplex UART link and one duplex serial XMOS Link. The XTAG-2 debug adapter can be used to connect XMOS development kits to most PCs, and provide a 5V power supply.

The XTAG-2 is based on a single XS1-L1 device in a 64LQFP package. The XS1-L1 consists of a single XCore, which comprises an event-driven multi-threaded processor with tightly integrated general purpose I/O pins and 64 KBytes of on-chip RAM. The pins are brought out of the package and connected to the card's components as follows: • USB Connector • XSYS 20-way IDC header (female).

XCARD XK-1-ND (XCARD XK-1) **$99.00**
XCARD XTAG-2-ND (XCARD XTAG-2) **$49.00**

XC-2 Ethernet Kit

The XC-2 Ethernet Kit provides a rapid and cost effective route for developing ethernet connected designs in XMOS silicon. Based around the four-core XS1-G4 programmable device from XMOS, the XC-2 Kit provides the hardware needed to connect to a 10/100 Ethernet system using an RJ45 socket.

XC-2 Card Features: • XS1-G4 four-XCore™ 400MHz device: 1600 MIPS, 256KB RAM, 32KB OTP • RJ45 ethernet socket • Two pushbuttons • 10 user LEDs • 84 pins user I/O expansion total from four XCores • External link and XSYS debug interface • Credit card size (85 x 54 mm) **• XTAG Connector • USB Cable • 5V external PSU** Comprehensive software development tool suite: • XC, C and C++ compilers, linker, and mapper • Simulator and visual debugger • Supports Windows XP SP2, Red Hat Linux 4.6 and OS X 10.4 Example software available as source code

880-1014-ND (XCARD XC-2) **$149.00**

XS1-G Development Kit

The XS1-G Development Kit (XDK) is a complete and fun hardware/software development environment that provides the fastest way to start exploring Software Defined Silicon. Based on the XMOS XS1-G4 device, the XDK provides a quick and easy way develop a wide range of products and applications.
Features: • XS1-G4 four-XCore 400MHz device: 1600 MIPS • QVGA color touch screen TFT LCD • High performance stereo audio ADC/DAC • 10/100 Ethernet interface • SD card slot (card included) • USB connectivity • 512KB asynchronous SRAM • 96 pins I/O expansion from two XCores, via 0.1" IDC headers • XMOS link channel connections
880-1012-ND (XS1-G-DK (XDK)) **$1000.00**

NEW! USB Audio 2.0 Reference Design Kit

XMOS USB Audio 2.0 Reference Design Kit for designers targeting the USB audio market. The software framework provides USB High Speed and Audio Class 2.0, with options to add your own audio processing, interfaces and peripherals.
Using XMOS event-driven processor technology, the USB Audio 2.0 Reference Design Kit offers a complete software programmable solution for Audio Class 2.0. The compact credit card sized board is an ideal reference design for your production audio product. The XS1-L1 device at the heart of this system gives high levels of processing and flexibility from the 400 MIPS available.
880-1017-ND (XR USB AUDIO-2.0-MC) **$149.00**

NEW! USB Audio 2.0 Reference Design

USB Audio Class 2.0 provides a dramatic improvement over USB Audio Class 1.0 with the addition of 24bit audio, sample frequencies up to 192kHz and the ability to scale to large numbers of input/output channels.
XMOS has developed a USB Audio Class 2.0 software framework design to work on XS1-L devices. The design provides USB 230 High Speed device and Audio Class 2.0 device class implementations with configurable digital audio interfaces, peripherals and the ability to integrate audio processing. The framework also provides a USB Audio Class 1.0 implementation.
880-1027-ND (XR-USB-AUDIO-2.0-MC) **$349.00**

XCore Processors

XCore	MIPS	Threads	Memory	User I/O	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	100	500	XMOS Part No.
1	400	8	64KB RAM	36	0 ~ 70	64-LQPF	880-1000-ND	7.50	6.40	5.60	XS1-L01A-LQ64-C4
1	400	8	64KB RAM	36	-40 ~ 85	64-LQPF	880-1001-ND	8.70	7.40	6.50	XS1-L01A-LQ64-I4
1	400	8	64KB RAM	64	0 ~ 70	128-TQFP	880-1002-ND	8.70	7.40	6.50	XS1-L01A-TQ128-C4
2	800	16	128K SRAM	44	0 ~ 70	124-QFN	880-1004-ND	15.10	12.80	11.30	XS1-L02A-QF124-C4
2	800	16	128K SRAM	44	0 ~ 70	144-PBGA	880-1006-ND ***NEW!***	15.10	12.80	11.30	XS1-G02B-FB144-C4
4	1600	32	256K SRAM	88	0 ~ 70	144-FBGA	880-1008-ND	20.90	17.80	15.70	XS1-G04B-FB144-C4
4	1600	32	256K SRAM	256	0 ~ 70	512-FBGA	880-1010-ND	31.30	26.60	23.50	XS1-G04B-FB512-C4
1	500	8	64KB SRAM	64	0 ~ 70	128-TQFP	880-1019-ND ***NEW!***	10.00	8.50	7.50	XS1-L01A-TQ128-C5
2	500	8	64KB SRAM	84	0 ~ 70	124-TFQFN	880-1020-ND ***NEW!***	17.40	14.80	13.10	XS1-L02A-QF124-C5
1	400	8	64KB SRAM	36	0 ~ 70	64-LQFP	880-1021-ND ***NEW!***	8.90	8.30	7.30	XS1-L01A-LQ64-C4-THS
1	500	8	64KB SRAM	36	0 ~ 70	64-LQFP	880-1022-ND ***NEW!***	10.30	9.60	8.40	XS1-L01A-LQ64-C5-THS
1	400	8	64KB SRAM	64	0 ~ 70	128-TQFP	880-1023-ND ***NEW!***	10.30	9.60	8.40	XS1-L01A-TQ128-C4-THS
1	500	8	64KB SRAM	64	0 ~ 70	128-TQFP	880-1024-ND ***NEW!***	11.80	10.90	9.70	XS1-L01A-TQ128-C5-THS
2	400	8	64KB SRAM	84	0 ~ 70	124-TQFN	880-1025-ND ***NEW!***	17.90	16.50	14.60	XS1-L02A-QF124-C4-THS
2	500	8	64KB SRAM	84	0 ~ 70	124-TQFN	880-1026-ND ***NEW!***	20.40	18.80	16.60	XS1-L02A-QF124-C5-THS
1	500	8	64KB SRAM	64	-40 ~ 85	128-TQFP	880-1029-ND ***NEW!***	11.50	9.80	8.60	XS1-L01A-TQ128-I5
1	500	8	64KB SRAM	36	-40 ~ 85	64-LQFP	880-1030-ND ***NEW!***	10.00	8.50	7.50	XS1-L01A-LQ64-I5
1	500	8	64KB SRAM	36	0 ~ 70	64-LQFP	880-1032-ND ***NEW!***	8.70	7.40	6.50	XS1-L01A-LQ64-C5

freescale semiconductor

Flash Digital Signal Processors

Prog. Flash (16-Bit)	Prog. RAM (16-Bit)	Flash (Data) (16-Bit)	RAM (Data) (16-Bit)	Boot Flash (16-Bit)	Timers	I/O	Serial	A/D	PWM	Operating Voltage (V)	Bus Freq. (MHz)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
														1	10	25	
—	—	16K	4K	—	4	26	SCI, SPI, I2C	3-Ch., 12-Bit	6-Ch.	3 ~ 3.6	32	32-LQFP	MC56F8013VFAE-ND	6.12	5.79	5.45	MC56F8013VFAE
8K	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	DSP56F801FA60E-ND	8.03	7.59	7.14	DSP56F801FA60E
	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	48-LQFP	DSP56F801FA80E-ND	8.83	8.34	7.85	DSP56F801FA80E
	1K	2K	1K	2K	8	4	SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	32-LQFP	DSP56F802TA60E-ND	6.98	6.60	6.21	DSP56F802TA60E
12K	2K	—	—	—	3	9	SCI, SPI, I2C	36-Ch., 12-Bit	6-Ch.	1.8 ~ 3.6	32	28-SOIC	MC56F8002VWL-ND ***NEW!***	3.21	3.03	2.86	MC56F8002VWL
16K	2K	—	—	—	3	13	SCI, SPI, I2C	36-Ch., 12-Bit	6-Ch.	1.8 ~ 3.6	32	32-LQFP	MC56F8006VLC-ND ***NEW!***	3.42	3.24	3.05	MC56F8006VLC
	2K	—	—	—	3	26	SCI, SPI, I2C	36-Ch., 12-Bit	6-Ch.	1.8 ~ 3.6	32	48-LQFP	MC56F8006VLF-ND ***NEW!***	3.64	3.44	3.24	MC56F8006VLF
	2K	—	—	—	3	13	SCI, SPI, I2C	36-Ch., 12-Bit	6-Ch.	1.8 ~ 3.6	32	28-SOIC	MC56F8006VWL-ND ***NEW!***	3.32	3.14	2.96	MC56F8006VWL
31.5K	0.5K	4K	2K	2K	16	16	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	100-LQFP	DSP56F803BU80E-ND	17.71	16.73	15.75	DSP56F803BU80E
	0.5K	4K	2K	2K	16	32	SPI, 2 SCI	8-Ch., 12-Bit	(2) 6-Ch.	3.3	80	144-LQFP	DSP56F805FV80E-ND	19.65	18.57	17.47	DSP56F805FV80E
	0.5K	2K	4K	2K	4, 1 TOD	16	2 SPI, 2 SCI, SSI	—	—	2.5/3.3	80	100-LQFP	DSP56F826BU80E-ND	19.65	17.86	16.53	DSP56F826BU80E
32K	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	—	3.3	40	48-LQFP	MC56F8122VFAE-ND	8.51	8.05	7.57	MC56F8122VFAE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	—	3.3	40	64-LQFP	MC56F8123VFBE-ND	8.81	8.32	7.83	MC56F8123VFBE
	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322MFAE-ND	12.67	11.98	11.27	MC56F8322MFAE
	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322VFAE-ND	10.83	10.23	9.63	MC56F8322VFAE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323MFBE-ND	13.04	12.32	11.60	MC56F8323MFBE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323VFBE-ND	11.20	10.58	9.96	MC56F8323VFBE
60K	2K	8K	4K	2K	16	32	SPI, 2 SCI	16-Ch., 12-Bit	(2) 6-Ch.	3.3	80	160-LQFP	DSP56F807PY80E-ND	23.37	22.07	20.78	DSP56F807PY80E
64K	4K	8K	8K	8K	8	49	2 SCI, 2 SPI	16-Ch., 12-Bit	6-Ch.	3 ~ 3.6	40	128-LQFP	MC56F8135VFGE-ND	12.36	11.68	10.99	MC56F8135VFGE
	4K	8K	8K	8K	16	49	2 SCI, 2 SPI	16-Ch., 12-Bit	12-Ch.	3 ~ 3.6	60	128-LQFP	MC56F8335VFGE-ND	15.82	14.95	14.07	MC56F8335VFGE
	8K	64K	8K	—	4	39	SCI, SPI, I2C	4-Ch., 12-Bit	6-Ch.	3 ~ 3.6	32	48-LQFP	MC56F8036VLF-ND	7.46	7.05	6.64	MC56F8036VLF
	8K	64K	8K	—	8	53	SCI, SPI, I2C	8-Ch., 12-Bit	6-Ch.	3 ~ 3.6	32	64-LQFP	MC56F8037VLH-ND	7.99	7.55	7.11	MC56F8037VLH
128K	4K	8K	8K	8K	8	49	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	128-LQFP	MC56F8145VFGE-ND	13.78	13.02	12.26	MC56F8145VFGE
	4K	8K	8K	8K	8	76	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	160-LQFP	MC56F8147VPYE-ND	14.75	13.94	13.12	MC56F8147VPYE
	4K	8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345MFGE-ND	21.07	19.91	18.74	MC56F8345MFGE
	4K	8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345VFGE-ND	17.69	16.71	15.73	MC56F8345VFGE
	4K	8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346MFVE-ND	21.35	20.16	18.98	MC56F8346MFVE
	4K	8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346VFVE-ND	17.83	16.84	15.85	MC56F8346VFVE
	4K	8K	8K	8K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8347VPYE-ND	18.93	17.89	16.84	MC56F8347VPYE
256K	4K	8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355MFGE-ND	27.22	25.71	24.20	MC56F8355MFGE
	4K	8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355VFGE-ND	23.41	22.11	20.81	MC56F8355VFGE
	4K	8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356MFVE-ND	27.57	26.04	24.51	MC56F8356MFVE
	4K	8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356VFVE-ND	23.56	22.26	20.95	MC56F8356VFVE
	4K	8K	16K	16K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8357VPYE-ND	25.35	23.95	22.54	MC56F8357VPYE
512K	4K	32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365MFGE-ND	37.56	35.48	33.39	MC56F8365MFGE
	4K	32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365VFGE-ND	33.03	31.20	29.36	MC56F8365VFGE
	4K	32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366MFVE-ND	37.97	35.86	33.75	MC56F8366MFVE
	4K	32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366VFVE-ND	33.22	31.38	29.54	MC56F8366VFVE
	4K	32K	32K	32K	16	76	2 SCI, 2 SPI	16-Ch., 12-Bit	12-Ch.	3 ~ 3.6	60	160-LQFP	MC56F8367MPYE-ND	40.14	37.92	35.69	MC56F8367MPYE
	4K	32K	32K	32K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8367VPYE-ND	34.70	32.78	30.85	MC56F8367VPYE
Evaluation Boards																	
Evaluation Module for 56F802X/56F803X													MC56F8037EVM-ND	199.10/1			MC56F8037EVM
Evaluation Module for 56F8367 family of DSC's													MC56F8367EVME-ND	299.10/1			MC56F8367EVME
DEMO Board for MC56F8006VWL													MC56F8006DEMO-ND ***NEW!***	49.00/1			MC56F8006DEMO
DEMO Board for 56F8013													DEMO56F8013-EE-ND	74.95/1			DEMO56F8013-EE

Digital Signal Processors

On Chip RAM	Bootstrap ROM	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
										1	10	25	
—	—	3	4-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56362AG120-ND	15.84	14.97	14.09	DSPB56362AG120
	—	1	3-Ports	ESAI, SHI	On-Chip Emulation	3.3	100	100-LQFP	DSPB56364AF100-ND	9.49	8.55	7.79	DSPB56364AF100
	—	3	5-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56366AG120-ND	22.12	20.47	18.81	DSPB56366AG120
64K	1K	4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	100-LQFP	DSP56857BUE-ND	15.96	15.08	14.19	DSP56857BUE
	1K	4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	144-LQFP	DSP56858FVE-ND	16.82	15.89	14.95	DSP56858FVE
128K	192	3	5	2-ESSI, SCI	On-Chip Emulation	3.3	100	144-TQFP	DSP56303AG100-ND	35.50	32.84	30.18	DSP56303AG100
1436K	4K	32	32	TDM, I2C	DMA Controller	3.3	300	431-FCPBGA	MSC8122TVT4800V-ND	195.24	184.39	173.55	MSC8122TVT4800V
	4K	32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8122TVT6400V-ND	214.62	202.70	190.78	MSC8122TVT6400V
	4K	32	32	TDM, I2C	DMA Controller	3.3	500	431-FCPBGA	MSC8122VT8000-ND	247.41	233.67	219.93	MSC8122VT8000
	4K	32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8126TVT6400-ND	225.35	212.83	200.31	MSC8126TVT6400

CodeWarrior™ Software Dongle

The USB Dongle is a small device that plugs into a USB port on a host computer to provide an ID that is used in licensing the use of CodeWarrior™ software. Freescale provides them as a licensing option for our customers. The dongle allows for a single, specific node-locked copy of a given CodeWarrior™software suite to be used with any given computer system by attaching the dongle to their computer's USB port. Proper operation of the desired CodeWarrior™ software product does require a valid license on the USB dongle.

Digi-Key Part No.	Price Each	Freescale Part No.
CWH-DONGLE-ND	99.00	CWH-DONGLE

Panasonic

Flash Microcontrollers — 8-Bit

RoHS COMPLIANT

The MN101C series of 8-bit single-chip microcontroller incorporates multiple types of peripheral functions. This chip series is well suited for camera, VCR, MD, TV, CD, LD, printer, telephone, home automation products, pager, air conditioner, PPC remote control, fax machine, musical instrument and other applications. The MN101C series brings to embedded microcontroller applications flexible, optimized hardware configurations and simple efficient instruction set.

RAM (Bytes)	Flash (Bytes)	Timer/ Counter	I/O Pins	Speed (µs)	Operating Voltage	Serial Interfaces	Interrupts	A/D Pins	D/A Pins	LCD	Package	Digi-Key Part No.	Price Each 1	25	100
1.5K	32K	8-Bit x 5 16-Bit x 2	39	0.1 0.118 0.235 62.5	3.0 ~ 3.6 2.7 ~ 3.6 1.8 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I^2C x 1 I^2C Slave x 1	22	7	—	SEG 12 COM 4	48-TQFP	MN101CF78AXN-ND	9.41	8.48	7.52
6K	128K	8-Bit x 5 16-Bit x 1	53	0.1 0.2 62.5	2.5 ~ 3.6 2.1 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I^2C x 1 I^2C Slave x 1	22	7	2	—	64-LQFP	MN101CF77GXN-ND	15.43	13.89	12.32
10K	224K	8-Bit x 6 16-Bit x 1	88	0.1 62.5	4.5 ~ 5.5 2.0 ~ 5.5	Synchronous Type x 1 Synchronous Type/UART x 2 Synchronous Type/ Single-Master I^2C x 1	23	8	4	—	100-QFP	MN101CF49KXN-ND	17.49	16.33	15.16

AM1 Starter Kit

Introductory starter kit for the FLASH MEMORY version of an 8-bit 1-chip CPU. **Features:** • Equipped toggle-switches, serial communication function and LCD/LED display • C compiler and source code debugger • One-time C compiler upgrading is allowed from our website after purchasing • Simple debugger compatible with PanaX series with USB I/F • USB 1.1 for Host PC interface • Choice of USB 1.1 bus power or an external extension connector for power supply • CPU Board can be separately put in the evaluation system • Sample program and tutorial are included
Kit Contents: • USB Cable • External connection cable • CD • Software license and product warranty • Quick start up guide and registration guide • C source code debugger (Debug Factory Builder AM1 Starter Kit) • C compiler • CPU manual and sample program (MN101CF49K/70G/78A) • Online help-setup manual

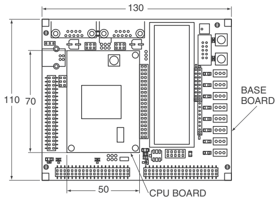

MMK01-C49-ND	Evaluation Kit for MN101CF49KXN	**$358.50**
MMK01-C77-ND	Evaluation Kit for MN101CF77GXN	**$358.50**
MMK01-C78-ND	Evaluation Kit for MN101CF78AXN	**$358.50**
MMB01-001-ND	Base Board for MN101C Evaluation Kit	**$295.50**
MMC01-C49-ND	CPU Board for MN101CF49KXN	**$148.50**
MMC01-C77-ND	CPU Board for MN101CF77GXN	**$148.50**
MMC01-C78-ND	CPU Board for MN101CF78AXN	**$148.50**

AM1 Debug Probe

Features: • AM1 Debug Probe achieves onboard debugging by containing the debug monitor in the AM1 (MN101C) built-in flash memory of the user target and utilizing the AM1 (MN101C) serial port to communicate with PC. • The hardware of AM1 Debug Probe is common to AM1 (MN101C) series. When developing the other AM1 (MN101C) series, the new types can be added by purchasing the appropriate Debug Factory Builder. • Usable as a flash writer by programming the debug monitor in your AM1 (MN101C) in advance. • Simply started up with USB connection to PC. No external power supply is needed because AM1 Debug Probe operates by USB bus power. **Contents:** • AM1 Debug Probe • Target connection cable • USB cable • Integrated programming development tool "DebugFactory Builder" (supporting 1 type) • Debug monitor programmed AM1 chip

MDP01-C49-ND	Debug Probe for MN101CF49KXN	**$636.00**
MDP01-C77-ND	Debug Probe for MN101CF77GXN	**$636.00**
MDP01-C78-ND	Debug Probe for MN101CF78AXN	**$636.00**

DebugFactory Builder for AM1 Debug Probe

Features: • Integrated development tool for the programming of AM1 (MN101C) series • Provides efficient debug environments, such as C source code leveled step execution, inspection, watching, breakpoint setting, etc. • Easy-to-switch with simple operation eases effective development work • Included with Evaluation Kits **Contents:** • Editor • Make tool • Debugger

MDS01-C49-ND	DebugFactory for MN101CF49KXN	**$358.50**
MDS01-C77-ND	DebugFactory for MN101CF77GXN	**$358.50**
MDS01-C78-ND	DebugFactory for MN101CF78AXN	**$358.50**

Infineon

Microcontrollers

Digi-Reel® RoHS COMPLIANT

8-Bit

This XC800 family of 8-bit microcontrollers offer a wide selection of products, combining a high performance 8051 core with on-chip Flash and ROM memory as well as a powerful mix of peripherals such as an enhanced CAPCOM6 (CC6), CAN, LIN and 10 bit ADC.

Based on the 8051 the C505CA enhances the C500 family of 8-bit microcontrollers by providing 32KByte of OTP or 16/32 KByte of ROM, 256 Byte of RAM, 1 KByte of XRAM, Controller Area Network (CAN) Version 2.0B, an asynchronous/synchronous serial interface and highly accurate 10-bit Analog to Digital Converter integrated on chip.

Max. Clock Rate (MHz)	ROM/ OTP Flash (Byte)	Data Flash EEPROM (Byte)	RAM (Byte)	I/O Lines	ADC-Inputs/ Max. Res. (Bit)	Timers/ Counters (16 Bit)	Serial I/O	CAN 2.0B Active	On-Chip Oscil-lator	On-Chip Voltage Regu-lator	PWM	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	Infineon Part No.
26.67	8K Flash	up to 4K	256	27	8/10	3	UART, SSC	—	√	√	4-ch	TSSOP-38	SAA-XC866-2FRABEINCT-ND	5.16	4.65	SAA-XC866-2FRA BE
26.67	8K Flash	up to 4K	256	27	8/10	3	UART, SSC	—	√	√	4-ch	TSSOP-38	SAA-XC866-2FRABEINTR-ND◊	7884.00/3,000		SAA-XC866-2FRA BE
26.67	16K Flash	up to 4K	256	27	8/10	3	UART, SSC	—	√	√	4-ch	TSSOP-38	SAA-XC866-4FRABEINCT-ND	9.71	7.73	SAA-XC866-4FRA BE
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAB-C505CA-4EMCAIN-ND§	18.53	16.85	SAB-C505CA-4EM CA
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAF-C505CA-4EMCAIN-ND§	19.46	17.69	SAF-C505CA-4EM CA
20	—	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAF-C505CA-LMCAIN-ND§	12.69	11.54	SAF-C505CA-LM CA
26.67	8K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAF-XC866-2FRIBCINCT-ND	4.24	3.82	SAF-XC866-2FRI BC
24	24K Flash	up to 4K	256	48	8/10	4	2xUART, SSC	√	√	√	5-ch	LQFP-64	SAF-XC888CLM-6FFA5VACINCT-ND	7.11	6.40	SAF-XC888CLM-6FFA 5V AC
24	24K Flash	up to 4K	256	48	8/10	4	2xUART, SSC	√	√	√	5-ch	LQFP-64	SAF-XC888CLM-6FFA5VACINTR-ND◊	6306.10/1,900		SAF-XC888CLM-6FFA 5V AC
24	32K Flash	up to 4K	256	48	8/10	4	2xUART, SSC	√	√	√	5-ch	LQFP-64	SAF-XC888CLM-8FFA5VACINCT-ND	6.65	6.03	SAF-XC888CLM-8FFA 5V AC
24	32K Flash	up to 4K	256	48	8/10	4	2xUART, SSC	√	√	√	5-ch	LQFP-64	SAF-XC888CLM-8FFA5VACINTR-ND◊	6439.10/1,900		SAF-XC888CLM-8FFA 5V AC
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAK-C505CA-4EMCAINCT-ND	19.37	17.69	SAK-C505CA-4EM CA
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAK-C505CA-4EMCAINTR-ND◊	11203.00/1,000		SAK-C505CA-4EM CA
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAABINCT-ND	7.34	6.65	SAK-XC888CM-8FFA AB
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAABINTR-ND◊	8020.14/1,900		SAK-XC888CM-8FFA AB
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAACINCT-ND	11.52	9.87	SAK-XC888CM-8FFA 5V AC

◊ Tape and Reel § Tray

Starter Kits / Evaluation Boards

B158-H8576-X-0-7600IN-ND	XC866 Easy Kit: Mini Evaluation Kit with XC866	**$114.07**
B158-H8548-X-0-7600IN-ND	XC866 Starter Kit: Full Evaluation Board with XC866	**$314.35**
KIT_XC866_EKIN-ND	XC886/888 CLM Easy Kit: Mini Evaluation Kit	**$394.27**
B158-H8743-X-X-7600IN-ND	XC886/888 CLM Starter Kit: Full Evaluation Board	**$314.35**

16-Bit

Infineon's C166 Family, with pipelined 16-bit core architecture and optimized real-time embedded control peripherals, offers a wide range of performance variations. • C161: Cost optimized CPU and peripheral set control • C164: Lower pin count and price with excellent PWM capabilities and CAN apps • C165: Processor-oriented microcontroller with basic peripheral set • C167: High-end 16-bit microcontroller with on-chip CAN. The XC164CM series is the new family of enhanced 16-bit microcontroller XC166 which offers impressive DSP performance and advanced interrupt handling combined with a powerful integrated peripheral set, high performance and reliable on-chip Flash memory

Max. CPU Clock (MHz)	Oscillator	3V	ROM/OTP/ Flash (Byte)	RAM (Byte)	I/O Lines	ADC Inputs/ Max. Res. (Bit)	Timers/ Counters (16-Bit)	Serial I/O	Real Time Clock	CAN Interface 2.0B Active	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	Infineon Part No.
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAB-C161O-LMHAIN-ND§	12.94	11.77	SAB-C161O-LM HA
25	PLL/Prescaler/Direct Input	—	—	2K	76	4/10	5	ASC+SSC	√	—	TQFP-100	SAB-C161PI-LFCAINCT-ND	13.15	12.01	SAB-C161PI-LF CA
25	PLL/Prescaler/Direct Input	—	—	4K	111	16/10	9	UART+SSC	√	CAN	MQFP-144	SAB-C167CR-LMHAIN-ND§	27.62	25.55	SAB-C167CR-LM HA+
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I2C+J1850	√	2 x CAN	TQFP-128	SAF-C161CS-LFCAINCT-ND	30.11	29.36	SAF-C161CS-LF CA

◊ Tape and Reel § Tray

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Microcontrollers

16-Bit *(Cont.)*

Max. CPU Clock (MHz)	Oscillator	3V	ROM/OTP/ Flash (Byte)	RAM (Byte)	I/O Lines	ADC Inputs/ Max. Res. (Bit)	Timers/ Counters (16-Bit)	Serial I/O	Real Time Clock	CAN Interface 2.0B Active	Package	Digi-Key Part No.	Cut Tape Price Each		Infineon Part No.
													1	10	
20	Prescaler/Direct Input	√	—	1K	63	—	3	ASC+SSC	—	—	MQFP-80	SAF-C161K-LM3VHAINCT-ND	15.19	13.88	SAF-C161K-LM 3V HA
20	Prescaler/Direct Input	√	—	1K	63	—	3	ASC+SSC	—	—	MQFP-80	SAF-C161K-LM3VHAINTR-ND◊	7720.88/850		SAF-C161K-LM 3V HA
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-L25MHAINCT-ND	14.61	13.35	SAF-C161O-L25M HA
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-L25MHAINTR-ND◊	7425.60/850		SAF-C161O-L25M HA
20	Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LM3VHAINCT-ND	14.61	13.35	SAF-C161O-LM 3V HA
20	Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LM3VHAINTR-ND◊	7425.60/850		SAF-C161O-LM 3V HA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I2C	√	—	MQFP-100	SAF-C161PI-LMCAINCT-ND	14.59	13.32	SAF-C161PI-LM CA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I2C	√	—	MQFP-100	SAF-C161PI-LMCAINTR-ND◊	4598.00/500		SAF-C161PI-LM CA
25	PLL/Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-L25MAAINCT-ND	8.14	7.38	SAF-C161S-L25M AA
25	PLL/Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-L25MAAINTR-ND◊	3721.30/850		SAF-C161S-L25M AA
25	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8E25MDBIN-ND§	25.04	23.17	SAF-C164CI-8E25M DB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8EMCBINCT-ND	23.79	23.20	SAF-C164CI-8EM CB
20	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LFHAINCT-ND	22.85	20.87	SAF-C165-LF HA
20	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LFHAINTR-ND◊	18502.40/1,400		SAF-C165-LF HA
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LM3VHAINCT-ND	21.36	20.83	SAF-C165-LM 3V HA
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LM3VHAINTR-ND◊	7340.85/500		SAF-C165-LM 3V HA
20	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LMHAINCT-ND	20.97	20.45	SAF-C165-LM HA
20	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LMHAINTR-ND◊	7207.50/500		SAF-C165-LM HA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F20FAAINCT-ND	18.69	16.36	SAF-XC164CM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F20FAAINTR-ND◊	14429.99/1,900		SAF-XC164CM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F40FAAINCT-ND	19.63	17.18	SAF-XC164CM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F40FAAINTR-ND◊	15151.47/1,900		SAF-XC164CM-4F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-8F40FAAINCT-ND	19.07	16.69	SAF-XC164KM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-8F40FAAINCT-ND	19.26	16.86	SAF-XC164SM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-8F40FAAINCT-ND	19.26	16.86	SAF-XC164TM-8F40F AA
66	PLL/Prescaler/Direct Input	√	192K Flash	2K	75	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAF-XE164F-24F66LACIN-ND§	12.62	11.48	SAF-XE164F-24F66L AC
66	PLL/Prescaler/Direct Input	√	384K Flash	2K	75	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAF-XE164F-48F66LACIN-ND§	14.11	12.83	SAF-XE164F-48F66L AC
66	PLL/Prescaler/Direct Input	√	576K Flash	2K	75	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAF-XE164F-72F66LACIN-ND§	15.59	14.18	SAF-XE164F-72F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAF-XE164F-96F66LACINCT-ND	17.06	15.58	SAF-XE164F-96F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAF-XE164F-96F66LACINTR-ND◊	13808.20/1,400		SAF-XE164F-96F66L AC
66	PLL/Prescaler/Direct Input	√	384K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAF-XE167F-48F66LACIN-ND§	16.58	15.08	SAF-XE167F-48F66L AC
66	PLL/Prescaler/Direct Input	√	576K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAF-XE167F-72F66LACIN-ND§	18.06	16.42	SAF-XE167F-72F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAF-XE167F-96F66LACIN-ND§	17.32	15.75	SAF-XE167F-96F66L AC
66	PLL/Prescaler/Direct Input	√	384K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	2 x CAN	LQFP-144	SAF-XE167G-48F66LACIN-ND§	16.08	14.63	SAF-XE167G-48F66L AC
66	PLL/Prescaler/Direct Input	√	576K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	2 x CAN	LQFP-144	SAF-XE167G-72F66LACIN-ND§	17.57	15.97	SAF-XE167G-72F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	2 x CAN	LQFP-144	SAF-XE167G-96F66LACIN-ND§	15.56	14.15	SAF-XE167G-96F66L AC
66	PLL/Prescaler/Direct Input	√	384K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167H-48F66LACIN-ND§	15.59	14.18	SAF-XE167H-48F66L AC
66	PLL/Prescaler/Direct Input	√	576K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167H-72F66LACIN-ND§	17.07	15.53	SAF-XE167H-72F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	24/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167H-96F66LACIN-ND§	14.81	13.47	SAF-XE167H-96F66L AC
66	PLL/Prescaler/Direct Input	√	384K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167K-48F66LACIN-ND§	14.60	13.28	SAF-XE167K-48F66L AC
66	PLL/Prescaler/Direct Input	√	576K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167K-72F66LACIN-ND§	16.08	14.63	SAF-XE167K-72F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	16/10	11	6xSPI+LIN+UART+IIC+IIS	√	—	LQFP-144	SAF-XE167K-96F66LACIN-ND§	14.56	13.24	SAF-XE167K-96F66L AC
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I2C+J1850	√	2 x CAN	TQFP-128	SAK-C161CS-LFCAINCT-ND	32.95	32.13	SAK-C161CS-LF CA
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I2C+J1850	√	2 x CAN	TQFP-128	SAK-C161CS-LFCAINTR-ND◊	21417.37/1,000		SAK-C161CS-LF CA
25	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAK-C164CI-8E25MDBIN-ND§	31.82	29.43	SAK-C164CI-8E25M DB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAK-C164CI-8EMCBIN-ND§	25.04	23.17	SAK-C164CI-8EM CB
25	PLL/Prescaler/Direct Input	—	32K Flash	8K	111	24/10	9	ASC+SSC	√	CAN	MQFP-144	SAK-C167CS-LMCAIN-ND§	33.91	31.37	SAK-C167CS-LM CA+
25	PLL/Prescaler/Direct Input	—	128K Flash	2K	111	16/10	9	ASC+SSC	—	CAN	MQFP-144	SAK-C167SR-LMHAIN-ND§	30.11	27.85	SAK-C167SR-LM HA+
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F20FAAINCT-ND	20.00	17.51	SAK-XC164CM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F20FAAINTR-ND◊	15440.22/1,900		SAK-XC164CM-4F20F AA
40	PLL/Prescaler/Direct Input	—	256K Flash	12K	79	14	11	2xASC+2xSSC	√	TwinCAN	TQFP-100	SAK-XC164CS-32F40FBB-AINCT-ND	29.84	29.10	SAK-XC164CS-32F40F BB-A
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	75	8/10	11	2xSPI+2xLIN	√	2 x CAN	LQFP-100	SAK-XC2264-56F66LACINCT-ND	13.33	12.18	SAK-XC2264-56F66L34 AC
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	75	8/10	11	2xSPI+2xLIN	√	2 x CAN	LQFP-100	SAK-XC2264-56F66LACINTR-ND◊	10791.20/1,400		SAK-XC2264-56F66L34 AC
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	75	16/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAK-XC2267-56F66LACINCT-ND	15.48	14.14	SAK-XC2267-56F66L34 AC
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	75	16/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAK-XC2267-56F66LACINTR-ND◊	12534.20/1,400		SAK-XC2267-56F66L34 AC
80	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAK-XC2267-96F66LACINCT-ND	16.79	15.34	SAK-XC2267-96F66L82 AC
80	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-100	SAK-XC2267-96F66LACINTR-ND◊	13595.40/1,400		SAK-XC2267-96F66L82 AC
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	118	24/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAK-XC2287-56F66L34ACINCT-ND	20.44	18.67	SAK-XC2287-56F66L34 AC
66	PLL/Prescaler/Direct Input	√	448K Flash	2K	118	24/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAK-XC2287-56F66L34ACINTR-ND◊	6442.50/500		SAK-XC2287-56F66L34 AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	24/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAK-XC2287-96F66L82ACINCT-ND	20.93	20.42	SAK-XC2287-96F66L82 AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	118	24/10	15	6xSPI+LIN+UART+IIC+IIS	√	MultiCAN	LQFP-144	SAK-XC2287-96F66L82ACINTR-ND◊	7939.13/500		SAK-XC2287-96F66L82 AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	17	USIC	√	2 x CAN	LQFP-100	SAK-XC2766X-96F66LACINCT-ND	19.63	17.93	SAK-XC2766X-96F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	75	16/10	17	USIC	√	2 x CAN	LQFP-100	SAK-XC2766X-96F66LACINTR-ND◊	15890.00/1,400		SAK-XC2766X-96F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	116	24/10	17	USIC	√	2 x CAN	LQFP-144	SAK-XC2786X-96F66LACINCT-ND	20.08	19.58	SAK-XC2786X-96F66L AC
66	PLL/Prescaler/Direct Input	√	768K Flash	2K	116	24/10	17	USIC	√	2 x CAN	LQFP-144	SAK-XC2786X-96F66LACINTR-ND◊	13052.00/1,000		SAK-XC2786X-96F66L AC

◊ Tape and Reel § Tray

Starter Kits / Evaluation Boards

B158-H8961-X-X-7600IN-ND	Easy Kit for XC164CM: Mini Evaluation Board	**$215.33**
B158-H8962-X-X-7600IN-ND	Easy Kit for XC164CS: Mini Evaluation Board	**$324.08**
B158-H8048-X-X-7600IN-ND	Full Starter Kit for XC161	**$458.79**
B158-H8963-X-X-7600IN-ND	Easy Kit for XC167CI: Mini Evaluation Board	**$324.08**

32-Bit

The TriCore™ is the first unified, single-core, 32-bit microcontroller-DSP architecture optimized for real-time embedded systems. The TriCore Instruction Set Architecture (ISA) combines the real-time capability of a microcontroller, the computational power of a DSP, and the high performance/price features of a RISC load/store architecture, in a compact re-programmable core.

Max. CPU Clock (MHz)	FPU	MMU	PCP	SRAM (Byte)	ROM/OTP/ Flash/ eDRAM (Byte)	I/O Lines	CAN	Package	Digi-Key Part No.	Cut Tape Price Each		Infineon Part No.
										1	10	
66	√	—	—	48K	1M Flash	81	—	LQFP-176	SAF-TC1161-128F66HLAAIN-ND§	27.20	26.53	SAF-TC1161-128F66HL AA
66	√	—	—	48K	1M Flash	81	MultiCAN	LQFP-176	SAF-TC1162-128F66HLAAIN-ND§	28.80	28.09	SAF-TC1162-128F66HL AA
80	√	—	√	80K	1.5M Flash	81	—	LQFP-176	SAF-TC1165-192F80HLAAIN-ND§	32.96	32.14	SAF-TC1165-192F80HL AA
80	√	—	√	80K	1.5M Flash	81	MultiCAN	LQFP-176	SAF-TC1166-192F80HLAAIN-ND§	34.56	33.70	SAF-TC1166-192F80HL AA
80	√	—	√	32K	1M Flash	81	MultiCAN	LQFP-176	SAK-TC1762-128F80HLACINCT-ND	39.65	38.67	SAK-TC1762-128F80HL AC
80	√	—	√	32K	1M Flash	81	MultiCAN	LQFP-176	SAK-TC1762-128F80HLACINTR-ND◊	13630.50/500		SAK-TC1762-128F80HL AC

◊ Tape and Reel § Tray

Starter Kits

B158-H8539-G2-X-7600IN-ND	Full Starter Kit for TC176X	**$1133.01**
B158-H8537-G2-X-7600IN-ND	Full Starter Kit for TC179X	**$1133.01**

infineon **NEW!** SmartLEWIS™ Microcontrollers

Digi-Reel® RoHS

The SmartLEWIS™ MCU family comprises an ASK/FSK multiband transmitter for the sub 1GHz ISM frequency bands with an embedded 8051 microcontroller as base functionality. Additionally, the highly integrated single chip family has internal sensors and optional peripheral functions like an analog to digital converter (ADC) and a LF receiver on chip. The high efficiency power amplifier and an advanced power control system make the PMA51xx family ideal for battery operated applications where low current consumption is necessary. The pin-compatible product family requires only a few external components and is the basis for flexible wireless control transmitter platforms enabling applications for different frequency bands, output power levels and feature sets based on only one design - just through different mounting options. Depending on the product variant, PMA51xx offers an embedded multi-channel 10-bit analog to digital converter with flexible high-gain settings as interface for a broad variety of analog sensors and an integrated 125kHz LF receiver. The LF receiver enables wireless wake-up in battery operated applications with ultra-long lifetime or even contactless configuration of the device.

Frequency (MHz)	Data Rate (Max.)	Modulation or Protocol	Applications	Power Output	Voltage Supply (V)	Current Transmitting (mA)	Data Interface	Operating Temperature	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
315, 434, 868, 915	20kbps	ASK, FSK	RKE, Security Systems	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 125°C	38-TSSOP	PMA5105INCT-ND	3.47	2.98	PMA5105INTR-ND	1339.00/M	PMA5105
315, 434, 868, 915	20kbps	ASK, FSK	RKE, Security Systems	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 125°C	38-TSSOP	PMA5110INCT-ND	4.04	3.64	PMA5110INTR-ND	1790.00/M	PMA5110
315, 434, 868, 915	20kbps	ASK, FSK	Remote Control, Remote Metering	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 125°C	38-TSSOP	PMA7105INCT-ND	3.15	2.70	PMA7105INTR-ND	1214.00/M	PMA7105
315, 434, 868, 915	20kbps	ASK, FSK	Remote Control, Remote Metering	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 125°C	38-TSSOP	PMA7106INCT-ND	3.07	2.77	PMA7106INTR-ND	1361.00/M	PMA7106
315, 434, 868, 915	20kbps	ASK, FSK	General Purpose	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 85°C	38-TSSOP	PMA7107INCT-ND	3.35	3.02	PMA7107INTR-ND	1484.00/M	PMA7107
315, 434, 868, 915	20kbps	ASK, FSK	General Purpose	10dBm	1.9 ~ 3.6	17.1	PCB	-40°C ~ 85°C	38-TSSOP	PMA7110INCT-ND	3.63	3.27	PMA7110INTR-ND	1608.00/M	PMA7110

IAR SYSTEMS Embedded Workbench® for ARM

RoHS

IAR Embedded Workbench is a set of highly sophisticated and easy-to-use development tools for embedded applications. It integrates the IAR C/C++ Compiler™, assembler, linker, librarian, text editor, project manager and C-SPY® Debugger in an integrated development environment (IDE).

EWARM-ND	Full Edition	$6143.98
EWARMBL-ND	Baseline Edition, 256K	$3543.99

J-Link for ARM

RoHS

J-Link is a small USB-JTAG/SWD debug probe for ARM processors. IAR J-Link integrates seamlessly into IAR Embedded Workbench and is fully plug-and-play compatible.
• Any ARM7/ARM9/ARM11/Cortex-M3 core supported, including both JTAG and SWD • SWD support • ETB support • Download speed up to 600KB/sec • DCC speed up to 800KB/sec • Full integration into IAR Embedded Workbench • No power supply required, powered via USB • Maximum JTAG speed 12 MHz • Automatic core recognition • 20-pin standard JTAG connector

JLINK-ARM-ND	$295.00

KEIL™ Tools by ARM PK51 Professional Developer's Kit

RoHS

The PK51 Professional Developer's Kit for the 8051 microcontroller family supports all 8051 derivatives including new devices with extended memory and instruction sets. On-chip peripherals and other key features of the 8051 are easy to access with the PK51 Professional Developer's Kit.

PK51-ND	$3295.00

CA51 Compiler Kit

RoHS

The CA51 Compiler Kit for the 8051 microcontroller family supports all 8051 derivatives including classic devices and IP cores from companies like Analog Devices, Atmel, Cypress Semiconductor, Dallas Semiconductor, Infineon, Intel, NXP, Silicon Labs, STMicroelectronics, Texas Instruments, and Winbond. On Chip peripherals and other key features of the 8051 are easy to access with the CA51 Compiler Kit.

CA51-ND	$1895.00

RealView® Microcontroller Development Kits

RoHS

The RealView Microcontroller Development Kit (MDK) supports ARM7, ARM9, and Cortex-M3 technology-based microcontrollers from Analog Devices, Atmel, Freescale, Luminary, NXP, OKI, Samsung, Sharp, STMicroelectronics, and Texas Instruments. The MDK-ARM-Basic offers all the features of the standard version of MDK-ARM with a code size restriction of 256KB.

MDK-ARM-ND	ARM Development Kit	$4895.00
MDK-ARM-BASIC-ND	***NEW!*** ARM Development Kit	$2895.00

RealView® Real-Time Library

RoHS

The RealView Real-Time Library is a collection of tightly-coupled libraries that are designed to solve the real-time and communication challenges of embedded systems based on ARM powered MCU devices. It also includes several drivers that interface the RTX Real-Time with various communication interfaces.

RTL-ARM-ND	$4195.00

MCB2470 Evaluation Board

RoHS

The MCB2470 Evaluation Board introduces the NXP LCP2470 ARM family, allowing you to create and test working programs for this architecture. Featuring the NXP MCP2478 MCU, the MCB2470 features a range of interfaces such as 3.2" Color QVGA LCD display with touch screen, USB (Host and OTG), CAN, Ethernet, SD/MMC cards and UARTs.

MCB2470-ND	$370.00

KickStart Kit for STM32

RoHS

IAR KickStart Kit for STM32 contains all the necessary hardware and software and allows you to design, develop, integrate and test your applications:

• STM32 development board • IAR visualSTATE evaluation edition, 20-state limitation (including example projects) • IAR PowerPac for ARM evaluation edition (including board support) • IAR Embedded Workbench with a 32KB edition of IAR C/C++ Compiler (including example projects) • IAR J-LINK JTAG debugger • Micrium board support

KSDKSTM32-PL-ND	$495.00

KickStart Kit for LPC2478

RoHS

IAR KickStart Kit for LPC2478 contains all the necessary hardware and software and allows you to design, develop, integrate and test your applications:

• LPC2478 development board • IAR visualSTATE evaluation edition • IAR PowerPac for ARM evaluation edition • IAR Embedded Workbench for ARM 32KB limited edition • IAR J-Link for ARM • Example applications for the LPC2478 board from IAR Systems • IAR PowerPac board support package • Micrium board support package

KSDKLPC2478-PL-ND	$495.00

MCB950 Evaluation Board

RoHS

The MCB950 Evaluation Board is a versatile, flexible prototype board for the NXP P89LPC952 microcontroller family. It includes the Keil µVision LPC Development Studio which allows you to create and debug programs that program into the on-chip Flash ROM using FlashMagic.

MCB950-ND	$129.00

MCBTMPM330 Evaluation Board

RoHS

The MCBTMPM330 Evaluation Board introduces you to the Toshiba TMPM330 family of ARM Cortex-M3 processor-based devices and allows you to create and test working programs for this advanced architecture. With an analog input (via potentiometer), three switches, four LEDs and access to all 79 GPIO Pins, this board is a great starting point for your next Cortex-M3 project.

MCBTMPM330-ND	$80.00

MCBXC167 Evaluation Board

RoHS

The MCBXC167 Evaluation Board introduces you to the Infineon XC16x microcontroller family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the serial port (for Flash download) or the OCDS interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger).

MCBXC167-BASIC-ND	$149.00

MCBX51 Evaluation Board

RoHS

The MCBX51 single-board computer is an evaluation board that supports numerous 8051-compatible and 251-compatible devices. The MCBX51 allows you to investigate the capabilities of the 8051 and 251 and create real working programs with the Keil development tools. The MCBX51 works with any 44-pin 8051-compatible or 251-compatible device.

MCBX51-ND	$295.00

ULINK® USB-JTAG Adapter

RoHS

ULINK2: The ULINK USB Interface Adapter connects your PC's USB port to your target hardware (via JTAG or OCDS) and allows you to debug embedded programs running on target hardware. Supports various 8051, C166, and ARM7, ARM9, and Cortext-Mx devices. **ULINKPRO:** Debug unit that allows real-time data and instruction trace streaming via USB. Supports ARM7, ARM9, and Cortex-Mx devices. Data and Instruction Trace for Cortex-M3 systems. High-Speed Flash Download.

ULINK2-ND	$395.00
ULINKPRO-ND	$1395.00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! SEGGER ARM Development Tools

Flasher ARM

Flasher ARM is a programming tool for microcontrollers with on-chip or external Flash memory and ARM core. Flasher ARM is designed for programming flash targets with the J-Flash software or stand-alone. **Main Features:** • Stand-alone JTAG/SWD programmer (Once set up, Flasher can be controlled without the use of PC program) • Support for ARM 7/9 and Cortex-M3 • No power supply required, powered through USB

899-1002-ND (5.07.01 FLASHER ARM) **$847.88**

Flasher 5

Flasher 5 is a programming tool for ST9 and Renesas M16C/20, M16C/62, M16C/80, M32C, R8C, R32C, M38 and M79 series of flash microcontrollers in serial mode (1.5MByte FLASH to store target program, remote control functions for automated testers) **Main Features:** • Serial (in target) programming supported • PC program allows batch mode processing for usage in automated test systems • Once set up, Flasher can be controlled without the use of PC program

899-1001-ND (5.05.01 FLASHER 5)........ **$422.88**

Flasher ST7

Flasher ST7 is a programming tool for ST7 series of flash microcontrollers **Main Features:** • Small, compact housing • Easy to use windows program • 512KByte internal Flash memory to store target program

899-1000-ND (5.04.01 FLASHER ST7) **$529.13**

J-Link ARM Pro

J-Link ARM Pro is a refined version of the regular J-Link. It has an Ethernet interface in addition to the USB interface, as well as two additional LEDs which are used as hardware status indicators. It connects via Ethernet or USB to the Windows (2000/XP/Vista) PC host. **Main Features:** • Fully compatible to J-Link ARM • Ethernet interface • USB 2.0 interface • Any ARM 7/9/11, Cortex-M3 core supported, including thumb mode • Automatic core recognition • Maximum JTAG speed 12MHz • Seamless integration into the IAR Embedded Workbench IDE • Powered through USB or power supply which comes with J-Link ARM Pro • All JTAG signals can be monitored, target voltage can be measured • Standard 20-pin JTAG connector • Wide target voltage range: 1.2V ~ 3.3V, 5V tolerant • USB and 20-pin ribbon cable included • Memory viewer (J-Mem) included • Comes with licenses for J-Link ARM RDI, J-Link ARM FlashBP, J-Link ARM GDB Server, J-Flash ARM

899-1007-ND (8.12.00 J-LINK ARM-PRO)........ **$1060.38**

Flasher STM 8

Flasher STM 8 is a programming tool for microcontrollers with on-chip Flash memory and STM8 core. Flasher STM 8 is designed for programming flash targets with a PC program or stand-alone. Flasher STM 8 connects via USB, via ethernet or via RS232 interface to a PC, running Microsoft Windows 2000, Windows XP, Windows 2003, Windows Vista or Windows 7. Flasher STM 8 has a built-in 10-pin interface connector and a built-in 4-pin interface connector, which are compatible with the debug connectors used by STM8 eval systems. **Features:** • Three boot modes: PC mode, stand-alone mode, MSD mode • Stand-alone SWIM programmer (Once set up, Flasher can be controlled without the use of PC program) • No power supply required, powered through USB • Support for all STM8 devices • 128MB memory for storage of target program • Serial in target programming supported • Data files can be update via PC program

899-1009-ND (5.09.01 FLASHER STM 8)........ **$791.97**

J-Trace ARM

J-Trace for ARM is a high speed hardware trace probe for ARM. It connects via USB to the PC host running Windows. J-Trace integrates seamlessly into a wide range of IDEs, is fully plug-and-play compatible and in addition it is very easy to use. **Main Features:** • Supports all ARM7 and ARM9 devices • No power supply required, powered through USB, although external power supply plug is available • Auto speed recognition • Integration into IAR Embedded Workbench for ARM makes setup and use easy

899-1006-ND (8.10.00 J-TRACE ARM) **$1326.00**

JTAG Isolator

The J-Link JTAG Isolator can be connected between J-Link ARM and any ARM-board that uses the standard 20-pin JTAG-ARM connector to provide electrical isolation. The product is compatible with J-Link ARM, J-Link ARM Pro and Flasher ARM. **Main Features:** • 1kV DC isolation • 3.3V and 5V target operation supported • Powered from emulator and target • JTAG standard 20-pin connection supporting TRST, TDI, TMS, TCK, RTCK, TDO and RESET signals • Power consumption on target side: <50mA • JTAG frequency: Up to 4MHz • 3 LEDs to indicate emulator power, target power and target RESET

899-1003-ND (8.07.00 JTAG ISOLATOR) **$263.50**

J-Link ARM, Educational Version

J-Link is a USB powered JTAG emulator for ARM cores. It connects via USB to the Windows (200/XP/Vista) PC host. **Main Features:** • Direct download into flash memory of most popular microcontrollers supported • USB 2.0 interface • Any ARM7/ARM9/ARM11, Cortex-M0/M1/M3 core support, including thumb mode • Serial Wire Debug (SWD) support • Serial Wire Viewer (SWV) support • JTAG speed up to 12MHz • Download speed up to 720Kbytes/second (ARM7@50MHz, 12MHz JTAG speed) • No power supply required, powered through USB • All JTAG signals can be monitored, target voltage can be measured • Standard 20-pin JTAG connector • Wide target voltage range: 1.2V ~ 3.3V, 5V tolerant • USB and 20-pin ribbon cable included • Target power supply: J-Link can supply up to 300mA to target with overload protection

899-1008-ND (8.08.90 J-LINK EDU)........ **$63.75**

J-Link ARM

J-Link is a USB powered JTAG emulator for ARM cores. It connects via USB to the Windows (200/XP/Vista) PC host. **Main Features:** • Direct download into flash memory of most popular microcontrollers supported • USB 2.0 interface • Any ARM7/ARM9/ARM11, Cortex-M0/M1/M3 core support, including thumb mode • Serial Wire Debug (SWD) support • Serial Wire Viewer (SWV) support • JTAG speed up to 12MHz • Download speed up to 720Kbytes/second (ARM7@50MHz, 12MHz JTAG speed) • No power supply required, powered through USB • All JTAG signals can be monitored, target voltage can be measured • Standard 20-pin JTAG connector • Wide target voltage range: 1.2V ~ 3.3V, 5V tolerant • USB and 20-pin ribbon cable included • Target power supply: J-Link can supply up to 300mA to target with overload protection

899-1004-ND (8.08.00 J-LINK ARM) **$317.69**

J-Link ARM-14

Converts 20-pin interface to 14-pin interface. Compatible with J-Link ARM and J-Link ARM Pro.

899-1005-ND (8.08.01 J-LINK ARM-14)........ **$69.06**

NEW! OmniVision CMOS Image Sensors

OmniVision's broad portfolio of digital and analog CMOS image sensors serve a wide variety of end markets. From sub-VGA to 9-megapixels, OmniVision has the answer for every application. Our advanced pixel architectures allow our customers to choose their desired camera solutions by device size, low-light sensitivity, package type, and even on-chip ISP.

Resolution	Optical Format	Pixel Size (µm)	Frame Rate (fps)	Output Format	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	OmniVision Part No.
VGA (640 x 480)	1/13"	1.75 x 1.75	30@full, 60@QVGA	YUV, RGB, Raw RGB Data	20-pin Module	884-1019-1-ND†	25.00	12.35	10.40	OVM7690-R20A
VGA (640 x 480)	1/13"	1.75 x 1.75	30@full, 60@QVGA	YUV, RGB, Raw RGB Data	20-pin Module	884-1019-2-ND‡	9425.00/1,000			OVM7690-R20A
VGA (640 x 480)	1/5"	4.2 x 4.2	60@full, 120@QVGA	YUV, Raw RGB Data	32-CSP3	884-1005-ND	15.00	5.11	4.30	OV07740-A32A
2MP (1600 x 1200)	1/5"	1.75 x 1.75	15@full, 30@SVGA	YUV, RGB, Raw RGB Data	38-CSP3	884-1009-ND	15.00	3.97	3.34	OV02655-A38A
3MP (2048 x 1536)	1/4"	1.75 x 1.75	15@full, 30@XGA	YUV, RGB, Raw RGB Data, Compressed Data	56-CSP2	884-1011-ND	15.00	7.79	6.56	OV03640-V56A
3MP (2048 x 1536)	1/4"	1.75 x 1.75	15@full, 30@XGA	YUV, RGB, Raw RGB Data, Compressed Data	67-CSP2	884-1013-ND	15.00	9.67	8.14	OV03642-V67A
5MP (2592 x 1944)	1/3.2"	1.75 x 1.75	15@full, 30@1080p, 60@720p, 60@VGA	Raw RGB Data	48-CLCC	884-1017-ND	15.00	10.22	8.61	OV05633-C48A
5MP (2592 x 1944)	1/4"	1.4 x 1.4	15@full, 30@1080p, 60@720p, 60@VGA	YUV, RGB, Raw RGB Data	63-CSP3	884-1021-ND	15.00	12.13	10.92	OV05642-A63A

† Cut Tape ‡ Tape and Reel

Flex Modules

OmniVision Flex Modules combine the CMOS image sensor, lens and lens housing on a flex cable.

Lens	Associated Image Sensor	Digi-Key Part No.	Price Each	OmniVision Part No.
Fixed Focus	OV07690	884-1002-ND	35.00	OV07690-MFSL-F000
Fixed Focus	OV03642	884-1015-ND	50.00	OV03642-MFSL-F000
True Focus	OV03642	884-1016-ND	50.00	OV03642-MFSL-T000

Evaluation Kits

OmniVision Evaluation Kits demonstrate the operation of the associated image sensor products. The kits provide a USB 2.0 interface to easily demonstrate the image sensor's features.

Kit Contents:
- Sensor Evaluation Module
- USB Cable
- CD with Drivers and Documentation

Associated Image Sensor	Digi-Key Part No.	Price Each	OmniVision Part No.
OVM7690	884-1004-ND	225.00	OVM7690-ECJA-BA0A
OV07740	884-1006-ND	225.00	OV07740-ECJA-BA0A
OV07690	884-1003-ND	225.00	OV07690-ECJA-BA0A
OV10620	884-1008-ND	225.00	OV10620-ECJC-BA0A
OV02655	884-1010-ND	225.00	OV02655-ECJA-BA0A

Associated Image Sensor	Digi-Key Part No.	Price Each	OmniVision Part No.
OV03640	884-1012-ND	225.00	OV03640-ECJA-BA0A
OV03642	884-1014-ND	225.00	OV03642-ECJA-BA0A
OV05633	884-1018-ND	225.00	OV05633-ECJA-BA0A
OV05642	884-1020-ND	225.00	OV05642-ECJA-BA0A

Description	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	OmniVision Part No.
USB Controller, Enhanced Single-Chip Camera Bridge Processor for USB 2.0	88-BGA	884-1000-ND◆	15.00	2.95	2.48	OV00538-B88G

◆ *RoHS Compliant*

Digital Signal Processors

ADI's embedded architectures feature simple yet powerful programming models and are supported by high quality development tools.

TigerSHARC® Processors

This family offers the industry's highest performance per watt and per square inch of board space for the most demanding signal and image processing applications. The TigerSHARC's patented link port technology allows glueless interprocessor communication with arrays of two or more TigerSHARC Processors.

MMACs	On-Chip Memory (M-Bit)	External Memory (M-Bit)	Parallel Bus	Core Voltage / IO (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
								1	25	100		
2000	6	32/64	Yes	1.2/3.3	300	625-BGA	ADSP-TS101SAB1000-ND	326.12	304.38	282.64	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL

SHARC® DSPs

Using ADI's "Super" Harvard architecture, the SHARC family is optimized to enable a variety of real-time embedded signal processing applications and is known as a leader in premium audio applications.

MMACs	MFLOPs	On-Chip SRAM (M-Bit)	On-Chip ROM (M-Bit)	Serial Ports	Link Ports	Core Voltage (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
										1	25	100		
40	120	2	0	2	6	3.3	40	225-BGA	ADSP-21062LKB-160-ND	259.02	241.76	224.49	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
66	180	0.5	0	2	0	3.3	66	208-MQFP	ADSP-21065LKSZ-240-ND◆	37.44	34.95	32.45	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
400	1200	2	4	6	0	1.2	200	136-CSPBGA	ADSP21262SKBCZ200-ND◆	25.73	24.01	22.30	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
400	1200	2	4	6	0	1.2	200	144-LQFP	ADSP-21262SKSTZ200-ND◆	27.02	25.22	23.42	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
666	2700	3	4	6	4	1.2	333	144-LQFP	ADSP-21363KSWZ-1AA-ND◆	36.41	33.98	31.56	—	—
800	2400	2	6	8	4	1.3	400	256-SBGA	ADSP-21369BBPZ-2A-ND◆	49.22	45.94	42.66	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
800	2400	2	6	8	4	1.3	400	256-SBGA	ADSP-21369KBPZ-2A-ND◆	39.38	36.75	34.13	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
800	2400	2	6	8	4	1.3	400	256-SBGA	ADSP-21369KBPZ-3A-ND◆	49.22	45.94	42.66	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
800	2400	2	6	8	0	1.3	400	208-LQFP	ADSP-21369KSWZ-5A-ND◆ ***NEW!***	44.31	41.36	38.41	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
532	1596	1	4	8	0	1.2	266	208-LQFP	ADSP-21371BSWZ-2B-ND◆	25.28	23.59	21.91	—	—
532	1596	1	4	8	0	1.2	266	208-LQFP	ADSP-21371KSWZ-2B-ND◆	21.06	19.66	18.26	—	—

◆ ***RoHS Compliant***

ADSP-21xx/2199x and Mixed-Signal DSPs

The ADSP-21xx family architecture is built around a common instruction set architecture. All family members are code-compatible, fixed-point 16-bit DSPs. In addition, the ADSP-2199x family of mixed-signal DSPs provides a single-chip solution with signal processing and 14-bit ADC mixed signal integration.

Program RAM Words (KWords)	Data RAM Words (KWords)	External Memory Bus (Bits)	Host Port	SPORT	SPI / UART	Timers	Core Voltage (V)	ADC	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
												1	25	100		
2	1	16	No	2	No	1	5	—	25	68-PLCC	ADSP-2101BPZ-100-ND	51.71	48.26	44.82	—	VDSP-21XX-PC-FULL
1	0.5	24	No	1	No	1	5	—	20	68-PLCC	ADSP-2105BPZ-80-ND	23.66	22.08	20.51	—	VDSP-21XX-PC-FULL
1	0.5	24	No	2	No	1	5	—	25	68-PLCC	ADSP-2115BPZ-100-ND	32.97	30.78	28.58	—	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181BSZ-133-ND	38.67	36.10	33.52	—	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	5	—	40	100-LQFP	ADSP-2184BSTZ-160-ND	15.71	14.66	13.62	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2185BSTZ-133-ND	42.53	39.69	36.86	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2185NKSTZ-320-ND	17.69	16.51	15.33	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2189NBSTZ-320-ND	39.30	36.68	34.06	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2191MKSTZ-160-ND	29.13	27.19	25.25	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch.,14-Bit 20 MSPS	160	176-LQFP	ADSP-21992BSTZ-ND	44.21	41.26	38.32	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL

Blackfin® Processors

A new breed of embedded media processor designed specifically to meet the computational demands and power constraints of today's embedded audio, video and communications applications. Blackfin Processors combine a 32-bit RISC-like instruction set and dual 16-bit Multiply Accumulate signal processing functionality with the ease-of-use attributes found in general purpose microcontrollers.

MMACs Max.	Memory (kBytes)	External Memory Bus	PCI	USB Device	UARTs Timers	Watchdog Timer/RTC	Core Voltage (V) Max.	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
											1	25	100		
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	208-CSPBGA	ADSP-BF523BBCZ-5A-ND ***NEW!***	20.19	18.85	17.50	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	289-CSPBGA	ADSP-BF523KBCZ-5C2-ND ***NEW!***	23.45	21.89	20.32	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	208-CSPBGA	ADSP-BF525KBCZ-6A-ND ***NEW!***	28.07	26.20	24.33	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	289-CSPBGA	ADSP-BF525KBCZ-6C2-ND ***NEW!***	31.50	29.40	27.30	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	208-CSPBGA	ADSP-BF527BBCZ-5A-ND ***NEW!***	25.49	23.79	22.09	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	289-CSPBGA	ADSP-BF527KBCZ-5C2-ND ***NEW!***	28.86	26.94	25.02	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	208-CSPBGA	ADSP-BF527KBCZ-6A-ND ***NEW!***	30.84	28.79	26.73	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.26	600	289-CSPBGA	ADSP-BF527KBCZ-6C2-ND ***NEW!***	34.34	32.05	29.76	ADZS-BF527-EZLITE	VDSP-BLKFN-PC-FULL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	160-CSPBGA	ADSP-BF531SBBCZ400-ND	16.14	14.54	12.89	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF531SBSTZ400-ND	14.83	13.35	11.84	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	160-MBGA	ADSP-BF532SBBCZ400-ND	16.46	15.36	14.27	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF532SBSTZ400-ND	15.54	14.00	12.41	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1500	148	16-Bit	No	No	Yes	Yes	1.3	400	160-CSPBGA	ADSP-BF533SBBCZ400-ND	18.78	17.53	16.28	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1500	148	16-Bit	No	No	Yes	Yes	1.4	500	169-BGA	ADSP-BF533SBBZ500-ND	26.55	24.78	23.01	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1500	148	16-Bit	No	No	Yes	Yes	1.4	500	160-MBGA	ADSP-BF533SBBCZ500-ND	23.00	21.47	19.93	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1500	148	16-Bit	No	No	Yes	Yes	1.3	600	160-MBGA	ADSP-BF533SKBCZ-6V-ND	30.29	28.27	26.25	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	132	16-Bit	No	No	Yes	Yes	1.2	400	182-CSPBGA	ADSP-BF534BBCZ-4A-ND	18.60	17.36	16.12	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000	132	16-Bit	No	No	Yes	Yes	1.2	500	182-CSPBGA	ADSP-BF534BBCZ-5A-ND	23.09	21.55	20.01	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	300	260-BGA	ADSP-BF535PKBZ-300-ND	51.60	48.16	44.72	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FULL
800	100	16-Bit	No	No	Yes	Yes	1.2	400	182-CSPBGA	ADSP-BF536BBCZ-4A-ND	19.67	18.36	17.05	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000	132	16-Bit	No	No	Yes	Yes	1.2	500	182-CSPBGA	ADSP-BF537BBCZ-5AV-ND	28.64	26.73	24.82	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	No	Yes	Yes	1.2	600	182-CSPBGA	ADSP-BF537KBCZ-6AV-ND	31.80	29.68	27.56	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.2	400	316-CSPBGA	ADSP-BF538BBCZ-4F8-ND	30.39	28.37	26.34	ADZS-BF538F-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.2	500	316-CSPBGA	ADSP-BF538BBCZ-5A-ND	24.42	22.80	21.17	ADZS-BF538F-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.2	500	316-CSPBGA	ADSP-BF538BBCZ-5F8-ND	31.01	28.94	26.88	ADZS-BF538F-EZLITE	VDSP-BLKFN-PC-FULL
1200	132	16-Bit	No	Yes	Yes	Yes	1.43	600	400-CSBGA	ADSP-BF542BBCZ-5A-ND	26.10	24.36	22.62	ADZS-BF548-EZLITE	VDSP-BLKFN-PC-FULL
1200	260	16-Bit	No	Yes	Yes	Yes	1.43	600	400-CSBGA	ADSP-BF547BBCZ-5A-ND	30.17	28.16	26.15	ADZS-BF548-EZLITE	VDSP-BLKFN-PC-FULL
1200	324	16-Bit	Yes	Yes	Yes	Yes	1.43	600	400-CBGA	ADSP-BF547MBBCZ-5M-ND	30.17	28.16	26.15	ADZS-BF548-EZLITE	VDSP-BLKFN-PC-FULL
1066	260	16-Bit	No	Yes	Yes	Yes	1.43	533	400-CSBGA	ADSP-BF548BBCZ-5A-ND	31.07	29.00	26.93	ADZS-BF548-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	500	297-PBGA	ADSP-BF561SBBZ500-ND	41.82	39.04	36.25	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	600	297-PBGA	ADSP-BF561SBBZ600-ND	48.75	45.50	42.25	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	600	297-PBGA	ADSP-BF561SKBZ600-ND	44.78	41.79	38.81	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	500	256-CPBGA	ADSP-BF561SBBCZ-5A-ND	31.76	29.64	27.53	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	600	256-CPBGA	ADSP-BF561SKBCZ-6A-ND	43.70	40.79	37.87	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	500	256-CSPBGA	ADSP-BF561SKBCZ-5V-ND	41.55	38.78	36.01	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	600	256-CSPBGA	ADSP-BF561SKBCZ-6V-ND	46.04	42.97	39.90	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL

(Continued)

Blackfin® DSP uClinux Kernel Board Support Package for the ADSP-BF537/533 Processor

The STAMP includes an ADSP-BF533 development board and a recent copy of the open source development tools (GCC 3.3.x) and the uClinux 2.6.x Kernel. The CD also includes documentation, board schematics, Gerbers, and layout files. The latest version of all the tools can be found on the http://blackfin.uclinux.org website.

ADZS-BF537-STAMP-ND *(RoHS Compliant)* **$215.05**

AD7940-DBRD-ND Evaluation Board for AD7940 Stamp SPI **$37.95**

Emulator Development Tools

Analog Devices cost-effective Universal Serial Bus (USB)-based emulator and High performance (HP) Universal Serial Bus (USB)-based emulator each provide an easy, portable, non-intrusive, target-based debugging solution for Analog Devices JTAG processors and DSPs. These powerful USB-based emulators perform a wide range of emulation functions, including single-step and full speed execution with pre-defined breakpoints, and viewing and/or altering of register and memory contents. With the ability to automatically detect and support multiple I/O voltages, the USB and HP USB emulators enable users to communicate with all of the Analog Devices JTAG processors and DSPs using either a full speed USB 1.1 or high speed USB 2.0 port on the host PC.

Analog Devices Blackfin emulator, ADZS-ICE-100B, is an easy, portable, nonintrusive, target-based debugging solution. The emulator performs a wide range of emulation functions, including single-step and full-speed execution with predefined breakpoints, and viewing and/or altering of register and memory contents. The Blackfin emulator enables users to communicate with Analog Devices Blackfin processors using a high speed USB 2.0 port on the host PC.

Features: All emulators require VisualDSP++ software for the corresponding processor.

Digi-Key Part No.	Price Each
ADDS-HPPCI-ICE-ND	4250.00
ADZS-HPUSB-ICE-ND◆	4350.00
ADZS-USB-ICE-ND◆	1305.00
ADZS-ICE-100B-ND◆ ***NEW!***	163.13

◆ ***RoHS Compliant***

EZ-KIT Lite™ Evaluation Kits, Multimedia Kits, Audio Starter Kits and Extender Boards

EZ-KIT Lite Evaluation Kits: Features: The EZ-KIT Lite provides an easy way to evaluate the power of ADI's processors and begin to develop applications. **Contents:** • Stand-alone evaluation board • Evaluation suite of VisualDSP++ to facilitate architecture evaluations via a PC-hosted tool set.

EZ-KIT Lite users can: • Evaluate ADI's processors • Learn about DSP applications • Simulate and debug applications • Prototype applications

MMSK Multimedia Starter Kits: Features: Blackfin® Multimedia Starter Kit provides you everything you need to get started on a multimedia application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter card to perform multimedia related tasks.

Media Player Starter Kit: Features: Blackfin® Media Player Starter Kit provides you everything you need to get started on a media player application. Use a Blackfin EZ-KIT Lite and included software to perform audio and graphic related tasks.

Audio Starter Kit: Features: Blackfin® Audio Starter Kit provides you with everything you need to get started on an audio application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter board(s) to perform audio related tasks.

EZ-Extender Boards: Features: EZ-Extender daughter boards aids in design and prototype. The board extends the capabilities of the evaluation system by providing a connection to various signal chains.

Debug Agent: Features: The Standalone Debug Agent is intended to provide a modu lar low cost emulation solution for EZ-Boards as well as evaluation boards designed by third parties. Very similar to the debug agent that is on existing EZ-KIT Lites but will have the flexibility to move from one board to another board.

Digi-Key Part No.	Price Each
EZ-KIT Lite Evaluation Kits	
ADZS-TS201S-EZLITE-ND	1087.50
ADZS-21262-EZLITE-ND	543.75
ADZS-21369-EZLITE-ND	543.75
ADZS-21469-EZLITE-ND	598.13
ADZS-21479-EZLITE-ND ***NEW!***	598.13
ADZS-21489-EZLITE-ND ***NEW!***	538.31
ADZS-BF518F-EZLITE-ND	538.31
ADZS-BF526-EZLITE-ND	538.31
ADZS-BF527-EZLITE-ND	978.75
ADZS-BF533-EZLITE-ND	489.38
ADZS-BF537-EZLITE-ND	380.63
ADZS-BF538F-EZLITE-ND	489.38
ADZS-BF548-EZLITE-ND	1087.50
ADZS-BF561-EZLITE-ND	543.75
ADZS-BF506F-EZLITE-ND ***NEW!***	216.41

Digi-Key Part No.	Price Each
MMSK Multimedia Starter Kits	
ADZS-BF533-MMSKIT-ND	978.75
ADZS-BF561-MMSKIT-ND	978.75
Media Player Starter Kit	
ADZS-BF527-MPSKIT-ND	978.75
Audio Starter Kit	
ADZS-BF537-ASKIT-ND	826.50
EZ-Extender Boards	
ADZS-21469-EZBRD-ND	407.81
ADZS-BFFPGA-EZEXT-ND	353.44
ADZS-BFLLCD-EZEXT-ND	146.81
ADZS-BF518F-EZBRD-ND	353.44
ADZS-BF526-EZBRD-ND	353.44
Debug Agent	
ADZS-DBAGENT-BRD-ND	271.88

DSP Based Motor Control Applications (ADSP-2100 Family Code Compatible)

ADMC401ADVEVALKIT-ND **$434.50**

Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-DIP	ADMCF326BN-ND	27.12	25.32	23.51

Precision Analog Microcontrollers

MicroConverter™ ICs were the first to integrate true 12-bit to 24-bit analog precision ADCs, in-circuit reprogrammable Flash/EE memory and an on-chip 8052 or ARM core. Applications include industrial, instrumentation, communications, and automotive control.

Features: Precision Analog: • 12-bit to 24-bit ADC resolution • Sample rates up to 1Msps • Flexible ADC input multiplexing • Programmable gain differential inputs • Self-calibration • On-chip 2.5V band gap reference • Single, dual or quad rail-to-rail DAC

Integrated Programmable Peripherals: • 8052 or ARM7 MCU core (up to 45 MIPS) • Flash/EE code memory (up to 62k) • Flash/EE data memory (up to 4k) • RAM (up to 8k) • Flexible SPI, I²C, and UART serial ports • High speed baud rate generator • Multiple PWM outputs

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BSZ-ND◆	14.41	12.98	11.51
	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814ARUZ-ND◆	9.14	7.32	6.17
	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814BRUZ-ND◆	8.90	8.01	7.11
	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC816BCP-ND	15.21	14.20	13.19
	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BSZ-ND◆	15.36	13.83	12.27
	640	256	32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC824BCP-ND	19.80	18.48	17.16
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BSZ-ND◆	14.78	13.31	11.80
	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC832BSZ-ND◆	14.78	13.31	11.80
	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC834BSZ-ND◆	18.71	17.46	16.22
	4K	2K + 256	32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC836BSZ-ND◆	16.61	14.96	13.27
	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-3-ND◆	16.26	14.64	12.99
	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-5-ND◆	16.26	14.64	12.99
	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-5-ND◆	16.26	14.64	12.99
	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BSZ62-5-ND◆	11.65	10.49	9.30
	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-3-ND	9.11	8.21	7.28
	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BSZ62-5-ND◆	18.51	17.28	16.05
	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BSZ62-5-ND◆	16.26	14.64	12.99

◆ ***RoHS Compliant***

ARM7 Core MicroConverters™

RAM (Kbytes)	FLASH (Kbytes)	Downloader	GP I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
ADuC7xxx Series												
4	32	JTAG	9	2 (16-Bit)	—	—	-40°C~115°C	48-LFCSP	ADUC7030BCPZ-8V-ND	12.06	10.86	9.63
	32	JTAG	14	2 (24-Bit)	—	3-Phase	-40°C ~ 125°C	48-LQFP	ADUC7060BSTZ32-ND ***NEW!***	9.48	7.59	6.40
	32	JTAG	8	5 (24-Bit)	1 (14-Bit)	3-Phase	-40°C ~ 125°C	32-LFCSP	ADUC7061BCPZ32-ND ***NEW!***	6.96	5.57	4.70
6	96	JTAG	12	2 (16-Bit)	—	—	-40°C~115°C	48-LQFP	ADUC7033BSTZ-88-ND ***NEW!***	11.20	10.08	8.94
8	62	UART	14	5 (12-Bit)	4 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7020BCPZ62-ND	11.46	10.32	9.16
	62	I²C	14	5 (12-Bit)	4 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7020BCPZ62I-ND	11.46	10.32	9.16
	62	UART	13	8 (12-Bit)	2 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7021BCPZ62-ND	9.23	8.31	7.37
	62	I²C	13	8 (12-Bit)	2 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7021BCPZ62I-ND	9.23	8.31	7.37
	62	UART	13	10 (12-Bit)	—	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7022BCPZ62-ND	9.26	7.41	6.26

§ Includes external memory interface † Cut Tape

(Continued)

ARM7 Core MicroConverters™ *(Cont.)*

RAM (Kbytes)	FLASH (Kbytes)	Downloader	GP I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8	62	I²C	20	12 (12-Bit)	4 (12-Bit)	5-Channel	-40°C~125°C	40-Lead LFCSP_WQ	ADUC7023BCP6Z62I-ND ***NEW!***	7.98	6.39	5.39
	62	I²C	12	8 (12-Bit)	4 (12-Bit)	5-Channel	-40°C~125°C	32-Lead LFCSP_WQ	ADUC7023BCPZ62I-ND***NEW!***	7.98	6.39	5.39
	62	UART	30	10 (12-Bit)	2 (12-Bit)	3-Phase	-40°C~125°C	64-Lead LFCSP_VQ	ADUC7024BCPZ62-ND	11.80	10.62	9.42
	62	UART	30	10 (12-Bit)	2 (12-Bit)	3-Phase	-40°C~125°C	64-Lead LQFP	ADUC7024BSTZ62-ND	11.80	10.62	9.42
	62	I²C	40	12 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7026BSTZ62I-ND§	14.84	13.37	11.86
	62	UART	40	12 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7026BSTZ62-ND§	14.84	13.37	11.86
	62	UART	40	16 (12-Bit)	—	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7027BSTZ62-ND§	10.83	9.75	8.65
	62	I²C	40	16 (12-Bit)	—	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7027BSTZ62I-ND	12.16	10.95	9.71
	62	UART	22	7 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	49-BGA	ADUC7029BBCZ62-ND ***NEW!***	9.32	7.46	6.30
	62	I²C	22	7 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	49-BGA	ADUC7029BBCZ62I-ND ***NEW!***	9.32	7.46	6.30
	126	UART/ I²C	28	10 (12-Bit)	—	Generator	-40°C~125°C	64-LQFP	ADUC7128BSTZ126-RLCT-ND†	12.18	10.97	9.73
	126	UART/ I²C	40	12 (12-Bit)	—	Generator	-40°C~125°C	80-LQFP	ADUC7129BSTZ126-RLCT-ND†	13.04	11.75	10.42

§ Includes external memory interface † Cut Tape

ADUC8xx QuickStart Development Kits

The "entry level" QuickStart Development System allows designers to rapidly evaluate MicroConverter performance and functionality, and then begin a prototype development. It fully supports assembly level code development via a serial port debug path and provides designers with access to a demonstration project of the C-level development environment available in QuickStart-Plus.

Kit Contents: • Evaluation Board • Serial Download/Debug Cable • Sample Device(s) • International Power Supply • Software and Documentation

EVAL-ADUC812QS-ND	$75.00
EVAL-ADUC814QSZ-ND◆	$94.88
EVAL-ADUC831QSZ-ND◆	$75.90
EVAL-ADUC841QSZ-ND◆	$75.90
EVAL-ADUC842QS-ND	$70.31
EVAL-ADUC845QSZ-ND◆	$75.90
EVAL-ADUC847QSZ-ND◆	$75.90

◆ RoHS Compliant

ARM7 Development Kits

Kit Contents:

• Software Development Tools • Power Supply (Not included in Mini-Kit) • Cables • Evaluation Board • JTAG Emulator (QSP only)

EVAL-ADUC7020MKZ-ND	$31.63
EVAL-ADUC7020QSZ-ND	$86.03
EVAL-ADUC7026QSZ-ND	$86.03
EVAL-ADUC7026QSPZ-ND	$281.25
EVAL-ADUC7028QSZ-ND	$86.03
EVAL-ADUC7128QSPZ-ND	$281.25

CMOS Image Sensors

VGA

VGA resolution sensors feature resolutions of 640x480 and 752x480, and offer on-chip camera functions and very low power consumption for extending battery life. Plus, variable functions including gain, frame rate, and exposure, and can be programmed through a simple two-wire serial interface.

Optical Format	Array	Resolution	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.	Price Each 1	25	100	Aptina Part No.
1/4"	640H x 480V	VGA	Color	2.8	30	28-PLCC	557-1315-ND ***NEW!***	14.23	11.97	11.00	MT9V011P11STC:B
	640H x 480V	VGA	Color	2.8	30	44-CLCC	557-1241-ND	21.20	19.08	14.84	MT9V131C12STC
	640H x 480V	VGA	Color	2.8	30	48-CLCC	557-1308-ND	21.20	19.08	14.84	MT9V135C12STC
	640H x 480V	VGA	Color	2.8	15 ~ 90	44-IBGA	557-1273-ND	29.81	25.18	21.20	MT9V111IA7ATC
	640H x 480V	VGA	Color	2.8	30	52-IBGA	557-1238-ND	29.81	25.18	21.20	MT9V125IA7XTC
1/3"	752H x 480V	W-VGA	Color	3.3	60	52-IBGA	557-1166-ND	31.01	26.19	22.05	MT9V022IA7ATC
	752H x 480V	W-VGA	Mono	3.3	60	52-IBGA	557-1205-ND	31.01	26.19	22.05	MT9V022IA7ATM
	752H x 480V	W-VGA	Color	3.3	60	52-IBGA	557-1446-ND ***NEW!***	28.09	23.88	21.77	MT9V024IA7XTC
	752H x 480V	W-VGA	Mono	3.3	60	52-IBGA	557-1447-ND ***NEW!***	28.09	23.88	21.77	MT9V024IA7XTM
	752H x 480V	W-VGA	Color	3.3	60	48-CLCC	557-1237-ND	28.02	23.67	19.93	MT9V032C12STC
	752H x 480V	W-VGA	Mono	3.3	60	48-CLCC	557-1306-ND	28.02	23.67	19.93	MT9V032C12STM
	752H x 480V	W-VGA	Mono	3.3	60	48-CLCC	557-1454-ND ***NEW!***	25.65	21.58	19.83	MT9V034C12STM

Megapixel

Megapixel-resolution sensors combine the image quality of CCD technology with the compact size, adaptability, and ease-of-design of CMOS. CMOS-based technology can simplify camera designs compared to conventional CCD technology, thereby enabling designers to create smaller, high-performance applications with shorter development periods.

Optical Format	Array	Resolution (MP)	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.	Price Each 1	25	100	Aptina Part No.
1/4.5"	1280H x 1024V	1.6	Color	2.8	30 ~ 60	48-ILCC	557-1395-ND	23.85	20.14	16.96	MT9M032C12STC
	1280H x 1024V	1.6	Mono	2.8	30 ~ 60	48-ILCC	557-1396-ND	23.85	20.14	16.96	MT9M032C12STMU
1/3.2"	1600H x 1200V	2	Color	2.8	15	48-CLCC	557-1311-ND	26.24	22.16	18.66	MT9D131C12STC
1/3"	1280H x 1024V	1.3	Color	2.8	15	48-CLCC	557-1312-ND	23.85	20.14	16.96	MT9M131C12STC
1/2.5"	2592H x 1944V	5	Color	2.8	14	48-ILCC	557-1262-ND	23.85	20.14	16.96	MT9P031I12STC
	2592H x 1944V	5	Mono	3.1	14	48-ILCC	557-1397-ND	23.85	20.14	16.96	MT9P031I12STM
	2592H x 1944V	5	Color	2.8	15 ~ 60	48-ILCC	557-1263-ND	33.39	28.20	23.75	MT9P401I12STC
	2592H x 1944V	5	Color	2.8	15	48-ILCC	557-1455-ND ***NEW!***	23.32	19.61	18.02	MT9P001I12STC
1/2"	1280H x 1024V	1.3	Mono	3.3	30	48-CLCC	557-1151-ND	29.22	24.68	20.78	MT9M001C12STM
	2048H x 1536V	3	Color	3.3	12	48-CLCC	557-1452-ND ***NEW!***	23.32	19.83	18.08	MT9T031C12STC
	2048H x 1536V	3	Color	3.3	12	48-CLCC	557-1453-ND ***NEW!***	23.32	19.83	18.08	MT9T001C12STC

Image Sensor Evaluation Kits

Imaging's Demonstration system family supports the full line of Aptina's CMOS image sensor products. Several software applications are provided with the demonstration system, which allows the user to display the data from the sensor on the host computer, and to change some basic settings of the sensor for evaluation purposes. A Software Development Kit (SDK) is also provided to customers who wish to write their own software applications to access the sensor on the Demo System.
Kit Includes: • Imaging Demo Camera Board • Sensor Headboard with Lens • USB 2.0 Cable • Tripod • Users Manual

557-1248-ND◆	For use with MT9D131, Color	**$1240.20**
557-1411-ND◆	For use with MT9M032, Color	**$1240.20**
557-1246-ND◆	For use with MT9M131, Color	**$1240.20**
557-1409-ND◆	For use with MT9M032, Mono	**$1240.20**
557-1258-ND◆	For use with MT9P031, Color	**$1240.20**
557-1429-ND◆	For use with MT9P031, Mono	**$1240.20**
557-1239-ND	For use with MT9V125, Color	**$1240.20**
557-1242-ND	For use with MT9V131, Color	**$1240.20**
557-1247-ND◆	For use with MT9V135, Color	**$1240.20**
557-1448-ND◆	***NEW!*** For use with MT9V024, Color	**$1240.20**
557-1449-ND◆	***NEW!*** For use with MT9V024, Mono	**$1240.20**
557-1451-ND◆	***NEW!*** For use with MT9T031, Color	**$1240.20**

◆ RoHS Compliant

Sensor Headboards

The Sensor Headboards include the image sensor and lens mounted with all necessary components. The Sensor Headboards will connect to the Demo2 board (not included) to make a complete development system.

557-1253-ND◆	For use with MT9D131, Color	**$357.75**
557-1412-ND◆	For use with MT9M032, Mono	**$357.75**
557-1428-ND◆	For use with MT9M032, Color	**$357.75**
557-1251-ND◆	For use with MT9M131, Color	**$357.75**
557-1260-ND◆	For use with MT9P031, Color	**$357.75**
557-1430-ND◆	For use with MT9P031, Mono	**$357.75**
557-1240-ND	For use with MT9V125, Color	**$357.75**
557-1243-ND	For use with MT9V131, Color	**$357.75**
557-1252-ND◆	For use with MT9V135, Color	**$357.75**
557-1450-ND◆	***NEW!*** For use with MT9T031, Color	**$357.75**

◆ RoHS Compliant

H8 Family

H8 Value Series

Renesas Value Series Microcontrollers are low-cost embedded solutions with a 16-bit high performance CPU with up to 128KB of flash memory and high integration of on-chip peripherals.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	External	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	47	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	HD6413008FBL25NF-ND	5.10	4.08	3.45
	ROM	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	47	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	HD6413008FBL25V-ND◆	6.38	5.23	4.72
Flash	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2327BVFBL25V-ND◆	13.18	11.09	10.19
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	79	25MHz/3.0~ 3.6V	-20°C ~ 75°C	100-QFP	DF3024FBL25V-ND◆	9.98	8.18	7.39
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3062BF25V-ND◆	12.58	10.59	9.73
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3062BFBL25V-ND◆	9.98	8.18	7.39

H8 Tiny Series

The H8/Tiny series of MCUs provide 16-bit performance and high peripheral integration ideal for many 8-bit applications.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36012FPV-ND◆	8.38	6.71	5.66
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36012FTV-ND◆	10.48	8.59	7.76
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36012FXV-ND◆	10.48	8.59	7.76
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36012FYV-ND◆	10.48	8.59	7.76
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36012GFPV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F36012GFP-ND	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36012GFTV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36012GFXV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36012GFYV-ND◆	10.80	8.86	8.00
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36014FPV-ND◆	10.80	8.86	8.00
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36014GFPV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFP	DF36014GFYV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	64-LQFP	DF36014FPJV-ND◆	12.28	10.07	9.09
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	64-LQFP	DF36014FPWV-ND◆	11.33	9.53	8.76
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36014GFTV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36014GFXV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36014FTV-ND◆	10.80	8.86	8.00
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36014FYV-ND◆	10.80	8.86	8.00
	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36014FXV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36022FPV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36022FTV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36022FXV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36022FYV-ND◆	10.80	8.86	8.00
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36022GFPV-ND◆	11.10	9.11	8.22
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36022GFTV-ND◆	11.10	9.11	8.22
	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36022GFYV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36024FPV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36024FTV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36024FYV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36024FXV-ND◆	11.10	9.11	8.22
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36024GFPV-ND◆	11.43	9.37	8.46
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-QFN	DF36024GFTV-ND◆	11.43	9.37	8.46
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36024GFXV-ND◆	11.43	9.37	8.46
	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	DF36024GFYV-ND◆	11.43	9.37	8.46
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034FZV-ND◆	12.30	10.35	9.51
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034GFZV-ND◆	12.58	10.59	9.73
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36034GHV-ND◆	12.58	10.59	9.73
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36034HV-ND◆	12.30	10.35	9.51
	56K	—	3K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037FZV-ND◆	12.85	10.81	9.93
	56K	—	3K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037GFZV-ND◆	13.13	11.05	10.15
	56K	—	3K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36037GHV-ND◆	13.13	11.05	10.15
	56K	—	3K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36037HV-ND◆	12.85	10.81	9.93
	96K	—	4K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	67	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF36049GHV-ND◆	12.85	10.81	9.93
	96K	—	4K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	67	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF36049HV-ND◆	12.58	10.59	9.73
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36054FZV-ND◆	12.58	10.59	9.73
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36054GFZV-ND◆	12.85	10.81	9.93
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36054GHV-ND◆	12.85	10.81	9.93
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36054HV-ND◆	12.58	10.59	9.73
	56K	—	3K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36057FZV-ND◆	13.13	11.05	10.15
	56K	—	3K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36057GFZV-ND◆	13.40	11.27	10.36
	56K	—	3K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36057GHV-ND◆	13.40	11.27	10.36
	56K	—	3K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36057HV-ND◆	13.13	11.05	10.15
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36064GFPV-ND◆	7.93	6.50	5.87
	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36064GHV-ND◆	7.93	6.50	5.87
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36074GFZV-ND◆	8.48	6.95	6.28
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36074GHV-ND◆	8.90	7.30	6.59
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	55	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C	64-QFP	DF36074GHWV-ND◆	9.90	8.12	7.33
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36077GFZV-ND◆	9.53	7.82	7.05
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36077GHV-ND◆	9.53	7.82	7.05
	128K	—	6K	8-ch. 10-bit	1-ch. 14-bit	2 USART, 1 I^{2}C	2/2/—	55	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36079GFZV-ND◆	12.10	9.93	8.96
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	18MHz/3.0 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF36087FPV-ND◆	11.44	9.62	8.84
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	18MHz/3.0 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF36087HV-ND◆	11.44	9.62	8.84
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^{2}C	3/1/—	39	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36094GFZV-ND◆	12.08	9.91	8.94
	128K	—	5K	16-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	87	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF36109FV-ND◆	13.97	11.75	10.80
	128K	—	5K	16-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	87	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF36109GFV-ND◆	14.26	11.99	11.02
	128K	—	5K	16-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	87	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-LQFP	DF36109GHV-ND◆	14.26	11.99	11.02
	128K	—	5K	16-ch. 10-bit	—	3 USART, 1 I^{2}C	2/3/—	87	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-LQFP	DF36109HV-ND◆	13.97	11.75	10.80
	32K	—	2K	8-ch. 10-bit	—	I^{2}C, 2 USART	2/1/—	29	16MHz/4.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3664FPV-ND◆	11.88	9.74	8.79
	8K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3670FPV-ND◆	6.75	5.43	4.95
	8K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	HD64F3670FXV-ND◆	6.75	5.43	4.95
	8K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	HD64F3670FYV-ND◆	6.75	5.43	4.95
	16K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3672FPV-ND◆	6.33	5.19	4.69
	16K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	HD64F3672FXV-ND◆	6.33	5.19	4.69
	16K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3.0 ~ 5.5V	-20°C ~ 75°C	48-LQFP	HD64F3672FYV-ND◆	6.33	5.19	4.69
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3684FPV-ND◆	12.38	10.15	9.16
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3684GFPV-ND◆	11.18	9.40	8.64
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3684GHV-ND◆	11.18	9.40	8.64
	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3684HV-ND◆	12.38	10.15	9.16
	56K	500.0	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	51	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DN3687GFPV-ND◆	13.13	11.05	10.15

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

H8 Family H8 Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^2C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3687FPV-ND◆	11.44	9.62	8.84
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^2C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3687GFPV-ND◆	11.73	9.87	9.07
	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I^2C	2/2/—	53	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3687GHV-ND◆	11.73	9.87	9.07
	8K	—	1.5K	4-ch. 10-bit	—	1 USART	1/1/—	22	12MHz/3.0 ~ 5.5V	-20°C ~ 75°C	32-QFP	DF36902GFHV-ND◆	6.75	5.43	4.95
	8K	—	1.5K	4-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	22	12MHz/3.0 ~ 5.5V	-20°C ~ 75°C	32-LQFP	DF36912GFHV-ND◆	6.33	5.19	4.69
	8K	—	1.5K	4-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	22	12MHz/3.0 ~ 5.5V	-20°C ~ 75°C	32-SOP	DF36912GTPAFV-ND◆	6.33	5.19	4.69
	32K	500.0	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	35	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DN3694GFPV-ND◆	11.77	9.90	9.10
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	64-LQFP	HD64F3694FPV-ND◆	11.73	9.62	8.68
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	48-QFN	HD64F3694FTV-ND◆	11.73	9.62	8.68
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	48-LQFP	HD64F3694FXV-ND◆	11.73	9.62	8.68
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	48-LQFP	HD64F3694FYV-ND◆	11.73	9.62	8.68
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	64-LQFP	HD64F3694GFPV-ND◆	12.08	9.91	8.94
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5V	-20°C ~ 75°C	48-QFN	HD64F3694GFTV-ND◆	12.08	9.91	8.94
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	48-QFP	HD64F3694GFYV-ND◆	12.08	9.91	8.94
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	48-LQFP	HD64F3694GFXV-ND◆	12.08	9.91	8.94
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	64-QFP	HD64F3694GHV-ND◆	12.08	9.91	8.94
	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	37	20MHz/3 ~ 5.5	-20°C ~ 75°C	64-QFP	HD64F3694HV-ND◆	11.73	9.62	8.68

H8 Super Low Power

H8/300L and H8/300H Super Low Power series of MCUs are designed for optimum power consumption and fit in applications where battery life is critical. A built-in LCD controller is included on large packages (64-100 pins).

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38002FP4V-ND◆	12.38	10.15	9.16
	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38002H4V-ND◆	12.33	10.11	9.13
	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	64-QFP	DF38002H10WV-ND◆	11.97	10.07	9.25
	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38002H10V-ND◆	12.33	10.11	9.13
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38004FP4V-ND◆	11.44	9.62	8.84
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38004H4V-ND◆	11.44	9.62	8.84
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38004FP10V-ND◆	11.44	9.62	8.84
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38004H10V-ND◆	11.44	9.62	8.84
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	64-LQFP	DF38004FP10WV-ND◆	12.58	10.59	9.73
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	64-QFP	DF38004H10WV-ND◆	12.58	10.59	9.73
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-QFP	HD64F38024DV-ND◆	15.07	12.68	11.65
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-QFP	HD64F38024RDV-ND◆	13.88	11.68	10.73
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	HD64F38024RHV-ND◆	12.61	10.61	9.75
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-TQFP	HD64F38024RWIV-ND◆	13.88	11.68	10.73
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-TQFP	HD64F38024RWV-ND◆	12.61	10.61	9.75
	32K	—	1K	8-ch. 10-bit	—	1 USART	3/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	HD64F38024RFV-ND◆	12.61	10.61	9.75
	32K	—	1K	8-ch. 10-bit	—	1 USART	3/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	85-TFLGA	HD64F38024RLPV-ND◆	12.61	10.61	9.75
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38076RH4V-ND◆	14.96	12.58	11.56
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	85-TFLGA	DF38076RLP4V-ND◆	16.28	13.69	12.58
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF38076RW4V-ND◆	14.96	12.58	11.56
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38076RH10V-ND◆	15.25	12.83	11.79
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-QFP	DF38076RH10WV-ND◆	16.79	14.12	12.98
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	85-TFLGA	DF38076RLP10V-ND◆	16.57	13.94	12.81
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	85-TFLGA	DF38076RLP10WV-ND◆	18.24	15.34	14.10
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF38076RW10V-ND◆	15.25	12.83	11.79
	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-TQFP	DF38076RW10WV-ND◆	16.79	14.12	12.98
	52K	—	2K	2-ch. 14-bit($\Delta\Sigma$), 3-ch. 10-bit (SAR)	—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38086RH4V-ND◆	16.72	14.06	12.92
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	85-TFLGA	DF38086RLP4V-ND◆	18.04	15.17	13.94
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF38086RW4V-ND◆	16.72	14.06	12.92
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38086RH10V-ND◆	17.01	14.31	13.15
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-QFP	DF38086RH10WV-ND◆	18.72	15.75	14.47
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	85-TFLGA	DF38086RLP10V-ND◆	18.33	15.42	14.17
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	85-TFLGA	DF38086RLP10WV-ND◆	20.17	16.97	15.59
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF38086RW10V-ND◆	17.01	14.31	13.15
	52K	—	2K		—	3 USART, IrDA, 1 I^2C	2/4/0	63	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	80-TQFP	DF38086RW10WV-ND◆	18.72	15.75	14.47
	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF38102FPV-ND◆	11.15	9.38	8.62
	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF38102HV-ND◆	11.15	9.38	8.62
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	DF38104FPWV-ND◆	12.91	10.86	9.98
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF38104FPV-ND◆	11.73	9.87	9.07
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF38104HV-ND◆	11.73	9.87	9.07
	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-QFP	DF38104HWV-ND◆	12.91	10.86	9.98
	16K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF38122WV-ND◆	12.32	10.36	9.52
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38124HV-ND◆	12.91	10.86	9.98
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-QFP	DF38124HWV-ND◆	14.19	11.94	10.97
	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF38124WV-ND◆	12.91	10.86	9.98
	32K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38324HV-ND◆	13.40	11.27	10.36
	32K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF38324WV-ND◆	13.40	11.27	10.36
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38327HV-ND◆	14.26	11.99	11.02
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-QFP	DF38327HWV-ND◆	15.69	13.20	12.13
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF38327WV-ND◆	14.26	11.99	11.02
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-TQFP	DF38327WWV-ND◆	15.69	13.20	12.13
	32K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF38344HV-ND◆	14.52	12.21	11.22
	32K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	DF38344HWV-ND◆	16.13	13.57	12.47
	60K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF38347HV-ND◆	15.38	12.94	11.89
	60K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	DF38347HWV-ND◆	16.90	14.21	13.06
	60K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF38347WV-ND◆	15.38	12.94	11.89
	60K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF38347XV-ND◆	15.38	12.94	11.89

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	60K	—	2K	12-ch., 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF38347XWV-ND◆	16.90	14.21	13.06
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38427HV-ND◆	15.38	12.94	11.89
	16K	—	1K	6-ch. 10-bit	—	1 USART, 1 SSU*, IrDA, 1 I^{2}C	3/2/0	19	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	32-QFN	DF38602RFT10V-ND◆	12.33	10.11	9.13
	16K	—	1K	6-ch. 10-bit	—	1 USART, 1 SSU*, IrDA, 1 I^{2}C	3/2/0	19	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	32-QFN	DF38602RFT4V-ND◆	12.33	10.11	9.13

H8/300 Series

H8/300H and H8/300L Series of MCUs provide extensive support of customers' system requirements with a high level of peripheral functionality.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	512	8-ch. 10-bit	—	2 UART	—/5/—	38	16MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	D13002F16V-ND◆	15.44	12.99	11.94
	—	—	512	8-ch. 10-bit	—	2 UART	—/5/—	50	16MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	D13003TF16V-ND◆	21.76	18.50	17.14
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	1 Smart Card, 2 SCI	4/3/—	47	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	D13008F25V-ND◆	11.88	9.74	8.79
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	1 Smart Card, 2 SCI	4/3/—	47	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	D13008VF25V-ND◆	11.00	9.25	8.50
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	—/3/—	47	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	D13008VFBL25V-ND◆	6.38	5.23	4.72
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/3/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3024F25V-ND◆	16.37	13.77	12.65
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART	—/8/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF3026XBL25V-ND◆	21.45	18.04	16.58
	384K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	—/8/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF3028X25V-ND◆	22.26	18.93	17.53
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART	—/9/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3029F25V-ND◆	22.10	18.79	17.41
	128K	—	4K	8-ch. 10-bit	—	2 UART, Smart Card	—/5/—	63	18MHz/4.5 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF3039F18V-ND◆	27.12	23.06	21.36
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/5/—	78	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3048BF25V-ND◆	18.15	15.27	14.03
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/5/—	78	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF3048BX25V-ND◆	19.01	15.99	14.69
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART	—/5/—	78	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3048BVF25V-ND◆	18.15	15.27	14.03
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART	—/2/—	78	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	DF3048BF25WV-ND◆	19.98	16.80	15.44
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/5/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3052BF25V-ND◆	28.12	23.91	22.15
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3062BFP25QV-ND◆	12.58	10.59	9.73
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3064BF25V-ND◆	19.54	16.43	15.10
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	4/3/—	79	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3067RF20V-ND◆	27.40	23.29	21.58
	384K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3068F25V-ND◆	22.26	18.93	17.53
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3069RF25V-ND◆	22.10	18.79	17.41
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF3069RX25V-ND◆	22.70	19.30	17.88
	56K	—	3K	8-ch. 10-Bit	—	2 UART, CAN	3/2/—	45	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037GFZJEV-ND◆	16.21	13.64	12.53
	32K	—	4K	8-ch. 10-Bit	—	I^{2}C, SCI	3/2/—	47	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36074GFZWV-ND◆	9.43	7.73	6.98
	56K	—	4K	8-ch. 10-Bit	—	I^{2}C, SCI	3/2/—	47	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF36077LHV-ND◆	9.00	7.38	6.66
	96K	—	6K	8-ch. 10-Bit	—	I^{2}C, SCI	3/2/—	47	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36078GFZV-ND◆	10.88	8.92	8.05
	128K	—	6K	8-ch. 10-Bit	—	I^{2}C, SCI	3/2/—	47	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF36079LFZV-ND◆	12.10	9.93	8.96
	128K	—	6K	8-ch. 10-Bit	—	I^{2}C, SCI	3/2/—	47	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF36079LHV-ND◆	12.10	9.93	8.96
	32K	—	1K	8-ch. 10-bit	—	1 UART, 2 SCI	3/1/—	45	5MHz/2.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3644DV-ND◆	14.63	12.31	11.31
	32K	—	1K	8-ch. 10-bit	—	1 UART, 2 SCI	3/1/—	45	5MHz/2.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3644HV-ND◆	13.42	11.29	10.37
	32K	—	1K	8-ch. 10-bit	—	1 UART, 2 SCI	3/1/—	45	5MHz/2.5 ~ 5.5V	-20°C ~ 75°C	64-SDIP	HD64F3644PV-ND◆	17.82	14.99	13.77
	32K	—	1K	8-ch. 8-Bit	—	SCI	3/1/—	53	8MHz/2.5 ~ 5.5V	-20°C ~ 75°C	80-TQFP	HD64F3644WV-ND◆	15.07	12.68	11.65
	128K	—	4K	8-ch. 10-Bit	—	I^{2}C, SCI	2/4/—	75	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-LQFP	DF38099FP10WV-ND◆	20.86	17.54	16.12
	128K	—	4K	8-ch. 10-Bit	—	I^{2}C, SCI	2/4/—	75	4.2MHz/1.8 ~ 3.6	-20°C ~ 75°C	100-LQFP	DF38099FP4V-ND◆	18.77	15.79	14.51
	32K	—	4K	8-ch. 10-Bit	—	I^{2}C, IRDA, UART	3/1/—	75	5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38524HV-ND◆	9.53	7.82	7.05
	128K	—	4K	10-Bit	—	I^{2}C, IRDA, UART	2/4/—	75	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-LQFP	DF38799FP10V-ND◆	13.97	11.75	10.80
	128K	—	4K	10-Bit	—	I^{2}C, IRDA, UART	2/4/—	75	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-LQFP	DF38799FP10WV-ND◆	15.36	12.92	11.87

H8/300 Tiny Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034FPV-ND	14.30	12.03	11.05
	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034GFPV-ND	12.58	10.59	9.73
	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037FPV-ND	15.73	13.23	12.16
	128K	—	6K	8-ch. x 10-bit	—	2 USART, I^{2}C	3/2/—	47	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36079GHV-ND	12.10	9.93	8.96
	8K	—	1.5K	4-ch. x 10-bit	—	UART	1/1/—	22	2 ~ 12MHz/3.0 ~ 5.5V	-20°C ~ 75°C	32-LQFP	DF36902GFHSWV-ND	5.57	4.48	4.08

◆ ***RoHS Compliant*** *SSU = SPI®

H8S Family

The H8S Family meets the growing demands for system designs requiring the performance of 16-bit microcontrollers with sophisticated peripherals integrated on-chip. The H8S is the leader in memory size capacity with up to 512K on-chip flash. It includes performance speeds as high as 33MHz, extremely low power consumption and offers a wide selection of peripherals for optimizing system cost, development time, performance and features.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	D12312SVF20V-ND◆	12.00	9.84	8.88
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	D12312SVF25V-ND◆	12.00	9.84	8.88
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	D12312SVTE25V-ND◆	11.35	9.55	8.78
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12320VF20V-ND◆	12.00	9.84	8.88
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12320VF25V-ND◆	12.00	9.84	8.88
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12320VTE20V-ND◆	11.35	9.55	8.78
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12320VTE25V-ND◆	11.35	9.55	8.78
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12321VF20V-ND◆	12.00	9.84	8.88
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12321VF25V-ND◆	12.00	9.84	8.88
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12321VTE25V-ND◆	11.35	9.55	8.78
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12322RVF20V-ND◆	11.88	9.99	9.18
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12322RVF25V-ND◆	11.62	9.77	8.98
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12322RVTE20V-ND◆	12.67	10.66	9.80
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12322RVTE25V-ND◆	12.67	10.66	9.80
	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12324SVF25V-ND◆	14.52	12.21	11.22
	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12324SVTE25V-ND◆	15.31	12.88	11.84
	—	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-QFP	D12332VFC20V-ND◆	15.64	13.16	12.09
	—	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	D12332VFC25V-ND◆	15.64	13.16	12.09

◆ ***RoHS Compliant*** * SSU = SPI®

(Continued)

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	13MHz/3.0 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12352F13V-ND◆	18.46	15.53	14.27
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	13MHz/3.0 ~ 5.5V	-20°C ~ 75°C	120-TQFP	D12352TE13V-ND◆	20.13	16.93	15.56
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	D12352TE20V-ND◆	20.13	16.93	15.56
	—	—	16K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA,	2/6/—	94	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12363VF33V-ND◆	14.52	12.21	11.22
	—	—	16K	10-ch. 10-bit	2-ch. 8-bit	Smart Card, 2 I^{2}C	2/6/—	94	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	D12363VTE33V-ND◆	15.31	12.88	11.84
	—	—	16K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA,	2/6/—	113	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	D12373RVFQ33V-ND◆	18.48	15.54	14.28
	—	—	16K	16-ch. 10-bit	6-ch. 8-bit	Smart Card, 2 I^{2}C	2/6/—	113	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	D12373VFQ33V-ND◆	17.16	14.43	13.26
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12390F20V-ND◆	12.00	9.84	8.88
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	D12390TE20V-ND◆	11.35	9.55	8.78
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12392F20V-ND◆	11.88	9.99	9.18
	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	D12392TE20V-ND◆	12.67	10.66	9.80
	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12394F20V-ND◆	14.52	12.21	11.22
	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	D12394TE20V-ND◆	15.31	12.88	11.84
	—	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	D12670VFC33V-ND◆	14.67	12.34	11.34
	—	—	32K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	D12674RVFQ33V-ND◆	17.60	14.80	13.60
Flash	64K	—	2K	—	—	1 USART, 2 I^{2}C	3/1/—	82	10MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2110BVTE10V-ND◆	19.27	16.21	14.90
	64K	—	2K	6-ch. 10-bit	—	1 USART 2 I^{2}C	3/1/—	122	10MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2111BVT10BV-ND◆	20.13	16.93	15.56
	64K	—	3K	6-ch. 10-bit	—	1 USART 2 I^{2}C	3/1/—	122	10MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2111BVT10CV-ND◆	20.61	17.34	15.93
	1M	—	8K	8-ch. 10-bit	—	2 USART, IrDA, Smart Card, 2 I^{2}C	2/1/—	119	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2114RVT20V-ND◆	27.94	23.75	22.01
	160K	—	8K	16-ch. 10-bit	—	I^{2}C, SCI	4/10/—	128	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	DF2117VBG20V-ND◆	18.15	15.27	14.03
	160K	—	8K	16-ch. 10-bit	—	I^{2}C, SCI	4/10/—	112	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2117VLP20V-ND◆	18.15	15.27	14.03
	64K	—	2K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2132RFA20V-ND◆	19.82	16.67	15.32
	64K	—	2K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF2132RTF20V-ND◆	21.80	18.34	16.85
	64K	—	2K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	10MHz/3.0 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF2132RVTF10V-ND◆	21.80	18.34	16.85
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2134AFA20V-ND◆	20.13	16.93	15.56
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF2134ATF20V-ND◆	20.06	17.06	15.80
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF2134AVFA10V-ND◆	20.13	16.93	15.56
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF2134AVTF10V-ND◆	20.06	17.06	15.80
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2134BFA20V-ND◆	15.38	12.94	11.89
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2138AFA20V-ND◆	20.00	17.00	15.75
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF2138ATF20V-ND◆	20.80	17.68	16.38
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF2138AVFA10V-ND◆	20.00	17.00	15.75
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-TQFP	DF2138AVTF10V-ND◆	20.80	17.68	16.38
	64K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2140BVTE10V-ND◆	19.27	16.21	14.90
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART	3/1/—	82	20MHz/ 2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2144AFA20V-ND◆	21.23	17.86	16.41
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART	3/1/—	82	10MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2144AVTE10V-ND◆	21.34	18.14	16.81
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART	3/1/—	82	20MHz/ 2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2144FA20V-ND◆	25.66	21.82	20.21
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART	3/1/—	82	10MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2144VFA10V-ND◆	25.66	21.82	20.21
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4 - 5.5V	-20°C ~ 75°C	100-QFP	DF2145BFA20V-ND◆	20.40	17.34	16.07
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2145BTE20V-ND◆	21.12	17.96	16.64
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2145BVFA10V-ND◆	20.40	17.34	16.07
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2145BVTE10V-ND◆	21.12	17.96	16.64
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF2148ATE20IV-ND◆	25.14	21.37	19.80
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148BFA20V-ND◆	19.80	16.65	15.30
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2148BTE20V-ND◆	20.59	17.32	15.92
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF2148BFA20IV-ND◆	21.80	18.34	16.85
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148BFA20V-ND◆	19.80	16.65	15.30
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2148BVTE10V-ND◆	20.59	17.32	15.92
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART, 2 I^{2}C	4/1/—	82	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148RFA20V-ND◆	28.70	24.40	22.61
	64K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	122	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2160BVT10V-ND◆	20.42	17.36	16.09
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	122	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2161BVTE10V-ND◆	21.60	18.36	17.01
	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 6 I^{2}C, Smart Card	4/1/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2166VT33V-ND◆	36.00	30.60	28.35
	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit		4/1/—	115	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2167VT33-ND	37.34	31.74	29.41
	256K	—	32K	—	—	USB	2/—/—	76	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2170BVTE33V-ND◆	24.00	20.40	18.90
	1M	—	6K	8-ch. 10-bit	—	2 USART, IrDA, Smart Card, 2 I^{2}C	4/4/—	119	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2189RVT20V-ND◆	31.74	26.98	25.00
	64K	—	8K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2211FP24V-ND◆	15.38	12.94	11.89
	64K	—	8K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2211UFP24V-ND◆	15.38	12.94	11.89
	64K	—	8K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	HD64F2211UFP24-ND	15.38	12.94	11.89
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2212FP24V-ND◆	16.43	13.82	12.70
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2212UFP24V-ND◆	16.48	13.86	12.74
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	HD64F2212UFP24-ND	16.48	13.86	12.74
	128K	—	12K	—	1-ch. 8-bit	3 USART	—/3/—	81	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2214BQ16V-ND◆	20.40	17.34	16.07
	256K	—	20K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215RBR24V-ND◆	20.54	17.46	16.18
	256K	—	20K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2215RTE24V-ND◆	20.24	17.02	15.64
	256K	—	20K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215RUBR24V-ND◆	20.54	17.46	16.18
	256K	—	20K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2215RUTE24V-ND◆	20.24	17.02	15.64
	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215BR16V-ND◆	28.00	23.80	22.05
	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2215TE16V-ND◆	25.34	21.54	19.96
	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215UBR16V-ND◆	28.00	23.80	22.05
	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2215UTE16V-ND◆	25.34	21.54	19.96
	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	120-TQFP	HD64F2215TE16-ND	25.34	21.54	19.96
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	69	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2218BR24V-ND◆	21.41	18.01	16.55
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	69	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2218TF24V-ND◆	18.92	15.91	14.62
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	69	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2218UTF24V-ND◆	18.92	15.91	14.62
	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	69	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2218UBR24V-ND◆	21.41	18.01	16.55

◆ ***RoHS Compliant***   * SSU = SPI®

(Continued)

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	256K	—	32K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2362VTE34V-ND◆	18.46	15.53	14.27
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2238BF13V-ND◆	24.14	20.52	19.02
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2238BFA13V-ND◆	24.14	20.52	19.02
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2238BTE13V-ND◆	26.66	22.67	21.00
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2238BTF13V-ND◆	26.66	22.67	21.00
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2238RBQ13V-ND◆	22.80	19.38	17.96
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2238RBQ6V-ND◆	22.80	19.38	17.96
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2238RTE6V-ND◆	21.12	17.96	16.64
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2238RTF6V-ND◆	21.12	17.96	16.64
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-BGA	DF2238RBR13V-ND◆	22.80	19.38	17.96
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2238RFA6V-ND◆	20.40	17.34	16.07
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2238RFA13V-ND◆	20.40	17.34	16.07
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2238RTE13V-ND◆	21.12	17.96	16.64
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2238RTF13V-ND◆	21.12	17.96	16.64
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2239BQ16V-ND◆	26.40	22.44	20.79
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2239BQ20V-ND◆	26.40	22.44	20.79
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2239FA16V-ND◆	24.00	20.40	18.90
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2239FA20V-ND◆	24.00	20.40	18.90
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2239FA20IV-ND◆	26.40	22.44	20.79
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	HD64F2239FA20-ND	24.00	20.40	18.90
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2239TE16V-ND◆	24.72	21.02	19.47
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2239TE20V-ND◆	24.72	21.02	19.47
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2239TF16V-ND◆	24.72	21.02	19.47
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2239TF20V-ND◆	24.72	21.02	19.47
	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2258FA13V-ND◆	25.66	21.82	20.21
	128K	—	4K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2265FA13V-ND◆	21.12	17.76	16.32
	128K	—	4K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	20.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2265FA20V-ND◆	21.12	17.76	16.32
	128K	—	4K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2265TE13V-ND◆	20.00	17.00	15.75
	128K	—	8K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2266FA13V-ND◆	20.00	17.00	15.75
	128K	—	8K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C - 75°C	100-TQFP	DF2266TF13V-ND◆	20.80	17.68	16.38
	128K	—	8K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	20.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2266TF20V-ND◆	20.80	17.68	16.38
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2268FA13V-ND◆	22.66	19.27	17.85
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	20.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2268FA20V-ND◆	22.66	19.27	17.85
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2268TE13V-ND◆	23.46	19.95	18.48
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	20.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2268TE20V-ND◆	23.46	19.95	18.48
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	20.5MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2268TF20V-ND◆	23.46	19.95	18.48
	384K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2315VF25V-ND◆	24.00	20.40	18.90
	384K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2315VTE25V-ND◆	24.72	21.02	19.47
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2317VTE25V-ND◆	21.23	17.86	16.41
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2317VTEBL25V-ND◆	12.48	10.23	9.24
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2317VTF25V-ND◆	21.23	17.86	16.41
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2318VF25V-ND◆	20.40	17.34	16.07
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2318VTE25V-ND◆	21.12	17.96	16.64
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	113-TFLGA	DF2319CVLP25V-ND◆	30.48	25.91	24.01
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2319CVTE25V-ND◆	23.52	20.00	18.53
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	70	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2319EVF25V-ND◆	32.00	27.20	25.20
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	70	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2319EVTE25V-ND◆	35.30	30.01	27.80
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	70	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2319VF25V-ND◆	27.68	23.53	21.80
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	70	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2319VTE25V-ND◆	30.72	26.12	24.20
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	70	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-QFP	HD64F2319VF25-ND	27.68	23.53	21.80
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2326VF25V-ND◆	29.20	24.82	23.00
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2326VTE25V-ND◆	32.00	27.20	25.20
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2328BVF25V-ND◆	21.60	18.36	17.01
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2328BVTE25V-ND◆	22.32	18.98	17.58
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2328VF25V-ND◆	21.84	18.57	17.20
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2328VTE25V-ND◆	24.14	20.52	19.02
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2329BVF25V-ND◆	25.20	21.42	19.85
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2329BVTE25V-ND◆	25.92	22.04	20.42
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2329EVF25V-ND◆	36.32	30.88	28.61
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2329EVTE25V-ND◆	39.62	33.68	31.21
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	HD64F2329EVTE25-ND	39.62	33.68	31.21
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	HD64F2329VF25-ND	36.32	30.88	28.61
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-40°C ~ 85°C	128-QFP	DF2329VF25IV-ND◆	39.62	33.68	31.21
	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2329VF25V-ND◆	36.32	30.88	28.61
	256K	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2338VFC25V-ND◆	24.88	21.15	19.60
	384K	—	32K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2339EVFC25V-ND◆	37.60	31.96	29.61
	384K	—	32K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2339VFC25V-ND◆	37.60	31.96	29.61
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2345TE20V-ND◆	25.14	21.37	19.80
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	DF2357TE20V-ND◆	33.78	28.72	26.61
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	13MHz/3.0 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2357VF13V-ND◆	30.72	26.12	24.20
	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	13MHz/3.0 ~ 5.5V	-20°C ~ 75°C	120-TQFP	DF2357VTE13V-ND◆	33.78	28.72	26.61
	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2360VTE34V-ND◆	17.31	14.56	13.38
	256K	—	24K	10-ch. 10-bit	2-ch. 8-bit		2/6/—	94	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2361VTE34V-ND◆	17.89	15.05	13.83
	384K	—	32K	10-ch. 10-bit	2-ch. 8-bit		2/6/—	94	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2364VTE34V-ND◆	19.56	16.45	15.12
	384K	—	24K	10-ch. 10-bit	2-ch. 8-bit		2/6/—	94	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2367VF33V-ND◆	22.62	19.23	17.82
	384K	—	24K	10-ch. 10-bit	2-ch. 8-bit		2/6/—	94	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2367VTE33V-ND◆	23.12	19.66	18.21
	512K	—	32K	10-ch. 10-bit	2-ch. 8-bit		2/6/—	94	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2368VTE34V-ND◆	21.49	18.08	16.61
	256K	—	16K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2370RVFQ34V-ND◆	20.39	17.15	15.76
	256K	—	16K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2370RVLP34V-ND◆	22.34	18.99	17.60
	256K	—	16K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2370VFQ34V-ND◆	19.27	16.21	14.90
	256K	—	16K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2370VLP34V-ND◆	21.34	18.14	16.81
	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2371RVFQ34V-ND◆	20.94	17.62	16.19
	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2371RVLP34V-ND◆	22.86	19.44	18.01
	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2371VFQ34V-ND◆	19.82	16.67	15.32
	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2371VLP34V-ND◆	21.84	18.57	17.20

◆ ***RoHS Compliant*** * SSU = SPI®

(Continued)

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	256K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^2C	2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2372RVLP34V-ND◆	23.36	19.86	18.40
	256K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2372VLP34V-ND◆	22.34	18.99	17.60
	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2374RVFQ34V-ND◆	20.56	17.48	16.20
	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2374RVLP34V-ND◆	24.38	20.73	19.20
	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2374VFQ34V-ND◆	21.52	18.10	16.63
	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2374VLP34V-ND◆	25.66	21.82	20.21
	384K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2377RVFQ33V-ND◆	23.86	20.29	18.79
	384K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	33MHz/3.0 ~ 3.6V	-40°C ~ 85°C	144-LQFP	DF2377RVFQ33WV-ND◆	25.06	21.31	19.74
	384K	—	24K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2377VFQ33V-ND◆	23.12	19.66	18.21
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2378AVFQ34V-ND◆	21.60	18.36	17.01
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	35MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2378BVFQ35V-ND◆	20.56	17.48	16.20
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	35MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2378BVFQ35WV-ND◆	22.62	19.23	17.82
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	35MHz/3.0 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2378BVLP35V-ND◆	24.38	20.73	19.20
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2378RVFQ34V-ND◆	21.60	18.36	17.01
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit		2/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-TFLGA	DF2378RVLP34V-ND◆	27.94	23.75	22.01
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	DF2398TE20V-ND◆	22.32	18.98	17.58
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2398F20TV-ND◆	23.76	20.20	18.72
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2398F20V-ND◆	21.60	18.36	17.01
	256K	—	16K	16-ch. 10-bit	—	5 USART, 4 I^2C	4/5/—	110	20MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2437FV-ND◆	21.60	18.36	17.01
	512K	—	40K	8-ch. 10-bit	—	I^2C, SSU	4/6/—	113	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	R4F2462VFQ34V-ND◆	17.31	14.56	13.38
	512K	—	40K	8-ch. 10-bit	—	I^2C, SSU, USB	4/6/—	120	34MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	R4F2472VBR34DV-ND◆	25.44	21.63	20.04
	384K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART,	4/6/—	120	26MHz/3.0 ~ 5.5V	-40°C ~ 75°C	176-LFBGA	DF2505BR26DV-ND◆	33.34	28.34	26.26
	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^2C	4/6/—	120	26MHz/3.0 ~ 5.5V	-40°C ~ 75°C	176-LFBGA	DF2506BR26DV-ND◆	36.00	30.60	28.35
	384K	—	24K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^2C	4/6/—	120	26MHz/3.0 ~ 5.5V	-40°C ~ 75°C	176-LFBGA	DF2551BR26DV-ND◆	34.66	29.47	27.30
	384K	—	24K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^2C	4/6/—	120	26MHz/3.0 ~ 5.5V	-40°C ~ 75°C	144-QFP	DF2551FC26DV-ND◆	32.00	27.20	25.20
	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^2C	4/6/—	120	26MHz/3.0 ~ 5.5V	-40°C ~ 75°C	144-QFP	DF2552FC26DV-ND◆	34.66	29.47	27.30
	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^2C, 1 CAN	4/6/—	120	20MHz/3.0 ~ 5.5V	-40°C ~ 75°C	144-QFP	DF2556FC20DV-ND◆	34.66	29.47	27.30
	128K	—	4K	12-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	56	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2612FA20V-ND◆	21.34	18.14	16.81
	256K	—	12K	16-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	70	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C	100-QFP	DF2623FA20JV-ND◆	38.62	32.83	30.42
	256K	—	12K	16-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	70	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2623FA20V-ND◆	32.00	27.20	25.20
	128K	—	8K	16-ch. 10-bit	—	2 USART, 2 SSU*, Smart Card, 1 CAN	4/6/—	76	24MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2628FA24V-ND◆	21.34	18.14	16.81
	384K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2630F20V-ND◆	44.64	38.61	36.20
	384K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2630UF20JV-ND◆	46.27	40.02	37.52
	384K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^2C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2630WF20V-ND◆	47.45	41.04	38.48
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^2C	4/6/—	89	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2633F16V-ND◆	29.20	24.82	23.00
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	89	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2633F25V-ND◆	29.20	24.82	23.00
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	89	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2633TE25V-ND◆	32.00	27.20	25.20
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	89	28MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2633RF28V-ND◆	25.34	21.54	19.96
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	89	28MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	DF2633RTE28V-ND◆	26.14	22.22	20.59
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	89	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2633TE16V-ND◆	31.74	26.98	25.00
	128K	—	4K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2636F20V-ND◆	29.70	25.25	23.39
	128K	—	4K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2636UF20V-ND◆	31.50	26.78	24.81
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2638F20V-ND◆	33.52	28.50	26.40
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2638UF20V-ND◆	35.04	29.79	27.60
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^2C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2638WF20V-ND◆	36.56	31.08	28.80
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit		—/6/—	84	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C	128-QFP	DF2638WF20JV-ND◆	41.05	35.51	33.29
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2639UF20V-ND◆	37.06	31.51	29.19
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^2C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2639WF20V-ND◆	38.34	32.59	30.20
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^2C	4/6/—	111	16MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2643FC16V-ND◆	30.72	26.12	24.20
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit		4/6/—	111	25MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2643FC25V-ND◆	30.72	26.12	24.20
	128K	—	4K	12-ch. 10-bit	—	2 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C	144-QFP	DF2646RFC20JV-ND◆	37.35	32.31	30.29
	128K	—	4K	12-ch. 10-bit	—	2 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	DF2646RFC20V-ND◆	33.52	28.50	26.40
	128K	—	4K	12-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C	144-QFP	DF2648RFC20JV-ND◆	39.00	33.73	31.62
	128K	—	4K	12-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	DF2648RFC20V-ND◆	35.04	29.79	27.60
	384K	—	16K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2667VFQ33V-ND◆	24.88	21.15	19.60
	256K	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2676VFC33V-ND◆	26.66	22.67	21.00

◆ ***RoHS Compliant*** * SSU = SPI®

H8SX Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	256K	—	12K	16-ch. 10-bit	—	2 USART, 3 SSU*, Smart Card	—/12/—	99	48MHz/4.5 ~ 5.5V	-20°C ~ 85°C	120-LQFP	DF61582N48FPV-ND	30.48	25.91	24.01
	256K	—	24K	8-ch. 10-bit	2-ch. 8-bit	I^2C, SCI	8/12/14	81	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-LQFP	R5F61632N50FPV-ND	16.74	14.08	12.94
ROMless	—	—	24K	8-ch. 10-bit	2-ch. 8-bi	Smart Card, SCI	4/6/2	50	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61650CN50FPV-ND	11.68	9.58	8.64
	—	—	24K	8-ch. 10-bit	2-ch. 8-bi	Smart Card, SCI	4/6/2	50	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61650CW50FPV-ND	11.31	9.51	8.74
	—	—	40K	8-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card	4/6/2	50	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61651CN50FPV-ND	12.61	10.61	9.75
	—	—	40K	8-ch. 10-bit	2-ch. 8-bit	4 USART, IrDA, Smart Card	4/6/—	90	50MHz/3 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61651N50FPV-ND	12.76	10.73	9.86
Flash	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, USB FS, Smart Card, 2 I^2C	8/6/—	75	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61653N50FTV-ND	22.86	19.44	18.01
	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, Smart Card, 2 I^2C	8/6/—	84	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61654N50FTV-ND	24.78	21.07	19.52
	512K	—	24K	8-ch. 10-bit	2-ch. 8-bit	SCI	4/6/2	82	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61656CN35FTV-ND	23.36	19.86	18.40
	512K	—	24K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card	4/6/—	90	35MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61656N35FTV-ND	23.36	19.86	18.40
	768K	—	24K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card	4/6/—	90	35MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61657BN35FTV-ND	25.34	21.54	19.96
	768K	—	24K	8-ch. 10-bit	2-ch. 8-bit	SCI	4/6/2	82	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61657CN35FTV-ND	25.34	21.54	19.96
	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I^2C	8/6/—	101	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF61663N50FPV-ND	23.36	19.86	18.40
	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I^2C	8/6/—	101	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	144-LQFP	DF61663W50FPV-ND	25.70	21.85	20.24
	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	I^2C, SCI, USB	8/12/4	92	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	R5F61664RN50FPV-ND	20.94	17.62	16.19
	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I^2C	8/6/—	101	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	144-LQFP	DF61664W50FPV-ND	27.80	23.63	21.90
	1024K	—	56K	8-ch. 10-bit	2-ch. 8-bit	I^2C, SCI, USB	8/12/4	92	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-LQFP	R5F61668RN50FPV-ND	25.70	21.85	20.24

* SSU = SPI®

RENESAS Microcontrollers

M16C Family

The M16C family offers the industry's broadcast multi-purpose microcontroller platform, with seamless code and pin compatibility – all the way from 8-bit ~ 32-bit functionality. A robust platform of 16/32-bit CISC microcontrollers with speeds from 16MHz ~ 64MHz, up to 512K on-chip flash memory, high ROM code efficiency, extensive EMI/EMS noise immunity and very low power consumption. It also features a broad choice of standard on-chip peripheral options and the highest pin-to-pin compatibility (up to 144 pins) in the industry.

M16C Platform Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	64K	—	3K	14-ch. 10-bit	1-ch. 8-bit	2 USART, 1 CAN	4/1/—	37	16MHz/4.2 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M301N2F8TFP#U3-ND	21.30	17.91	16.46
	128K	—	10K	8-ch. 10-bit	—	4 USART, 1 I^{2}C	—/5/—	85	16MHz/3.0 ~ 3.6V	-20°C ~ 85°C	100-LQFP	M30245FCGP#U1-ND	20.00	17.00	15.75
	96K	—	8K	24-ch. 10-bit	—	UART, CAN, IEBus, SIO, I^{2}C	—/9/—	71	20MHz/4.2 ~ 5.5V	-20°C ~ 85°C	85-TFLGA	M30280FAWG#U7B-ND	16.19	13.62	12.52
	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302FAPFP#U3-ND	7.88	6.46	5.83
	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30302FAPFP#U5-ND	7.50	6.15	5.55
	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FAPGP#U3-ND	7.35	6.03	5.44
	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30302FAPGP#U5-ND	7.00	5.74	5.18
	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302FCPFP#U3-ND	8.15	6.69	6.04
	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30302FCPFP#U5-ND	7.75	6.36	5.74
	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FCPGP#U3-ND	7.63	6.26	5.65
	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30302FCPGP#U5-ND	7.25	5.95	5.37
	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302FEPFP#U3-ND	8.68	7.12	6.42
	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30302FEPFP#U5-ND	8.25	6.77	6.11
	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FEPGP#U3-ND	8.15	6.69	6.04
	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30302FEPGP#U5-ND	7.75	6.36	5.74
ROMless	—	—	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302SPFP#U3-ND	7.63	6.26	5.65
	—	—	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302SPGP#U3-ND	7.30	5.99	5.41
	—	—	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30302SPGP#U5-ND	6.33	5.19	4.69
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 1 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NLFHGP#U3-ND	28.00	23.80	22.05
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 1 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NLFJGP#U3-ND	30.66	26.07	24.15
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 1 CAN	—/11/—	114	24MHz/3 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NNFHGP#U3-ND	29.34	24.94	23.11
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 1 CAN	—/11/—	114	24MHz/3 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NNFJGP#U3-ND	32.00	27.20	25.20
	256K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	UART, CAN, IEBus, SIO, I^{2}C	—/11/—	87	24MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M306N4FGTFP#UKJ-ND	37.13	32.12	30.11
	128K	—	5K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I^{2}C, 1 CAN	—/11/—	88	20MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-QFP	M306N5FCTFP#U0-ND	33.02	28.07	26.01
	128K	4K	5K	26-ch. 10-bit	2-ch. 8-bit	UART, CAN, IEBus, SIO, I^{2}C	—/11/—	87	20MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-QFP	M306N5FCTFP#UK-ND	33.02	28.07	26.01
	128K	4K	5K	26-ch. 10-bit	2-ch. 8-bit	UART, CAN, IEBus, SIO, I^{2}C	—/11/—	87	20MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-QFP	M306N5FCTFP#UKJ-ND	33.02	28.07	26.01
	96K	—	24K	—	—	5 USART, 3 I^{2}C	—/5/—	22	15.36MHz/3 ~ 3.6V	-40°C ~ 85°C	64-LQFP	M306S0FAGP#U3-ND	20.00	17.00	15.75
	96K	—	24K	—	—	5 USART, 3 I^{2}C	—/5/—	22	15.36MHz/3 ~ 3.6V	-20°C ~ 85°C	64-LQFP	M306S0FAGP#U5-ND	20.94	17.62	16.19
	512K	—	10K	—	2-ch. 8-bit	2 USART, 3 I^{2}C	—/8/—	76	16MHz/4.75 ~ 5.25V	-20°C ~ 85°C	100-QFP	M306V7FJFP#U0-ND	38.28	33.11	31.04
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M3062LFGPFP#U3C-ND	20.16	17.14	15.88
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M3062LFGPFP#U5C-ND	21.12	17.76	16.32
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M3062LFGPFP#U9C-ND	21.41	18.01	16.55
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M3062LFGPGP#U3C-ND	21.56	18.13	16.66
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M3062LFGPGP#U5C-ND	20.53	17.27	15.87
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M3062LFGPGP#U7C-ND	21.85	18.38	16.89
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M3062LFGPGP#U9C-ND	20.83	17.52	16.10
	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART. 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30620FCPFP#U3C-ND	20.68	17.39	15.98
	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART. 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30620FCPFP#U5C-ND	19.69	16.56	15.22
	128K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART. 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30620FCPFP#U7C-ND	20.97	17.64	16.21
	128K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART. 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30620FCPFP#U9C-ND	19.98	16.80	15.44
	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30620FCPGP#U3C-ND	20.79	17.49	16.07
	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30620FCPGP#U5C-ND	19.80	16.65	15.30
	128K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30620FCPGP#U7C-ND	21.10	17.75	16.31
	128K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30620FCPGP#U9C-ND	20.09	16.90	15.53
ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30620SPFP#U3C-ND	13.88	11.68	10.73
	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30620SPFP#U5C-ND	12.61	10.61	9.75
	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30620SPGP#U3C-ND	12.91	10.86	9.98
	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30620SPGP#U5C-ND	11.73	9.87	9.07
Flash	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30621FCPGP#U3C-ND	19.56	16.45	15.12
	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP	M30621FCPGP#U5C-ND	18.63	15.67	14.40
	128K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP	M30621FCPGP#U9C-ND	18.92	15.91	14.62
	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30622F8PFP#U3C-ND	20.17	16.97	15.59
	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30622F8PFP#U5C-ND	19.21	16.16	14.85
	64K	4K	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30622F8PFP#U7C-ND	20.48	17.23	15.83
	64K	4K	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30622F8PFP#U9C-ND	19.51	16.41	15.08
	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30622F8PGP#U3C-ND	18.33	15.42	14.17
	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30622F8PGP#U5C-ND	17.45	14.68	13.49
	64K	4K	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30622F8PGP#U7C-ND	18.63	15.67	14.40
ROMless	—	—	3K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I^{2}C	—/11/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30622SAFP#U5-ND	12.33	10.11	9.13
	—	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30622SPFP#U3C-ND	12.25	10.31	9.47
	—	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30622SPFP#U5C-ND	11.15	9.38	8.62
	—	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100 -LQFP	M30622SPGP#U3C-ND	11.29	9.50	8.73
	—	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30622SPGP#U5C-ND	11.68	9.58	8.64
Flash	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP	M30623F8PGP#U5C-ND	18.33	15.42	14.17
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I^{2}C	—/11/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGAFP#U3-ND	46.47	40.20	37.68
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I^{2}C	—/11/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30624FGAFP#U5-ND	44.23	38.26	35.87
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGPFP#U3C-ND	21.84	18.57	17.20

*SSU = SPI®

(Continued)

Microcontrollers

M16C Family M16C Platform Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGPFP#U7C-ND	22.10	18.79	17.41
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30624FGPFP#U9C-ND	21.06	17.91	16.59
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30624FGPGP#U3C-ND	20.98	17.84	16.53
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30624FGPGP#U5C-ND	20.00	17.00	15.75
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30624FGPGP#U7C-ND	21.26	18.08	16.75
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30624FGPGP#U9C-ND	20.26	17.23	15.96
ROMless	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624SPFP#U3C-ND	16.30	13.71	12.60
	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30624SPFP#U5C-ND	14.81	12.46	11.45
	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30624SPGP#U3C-ND	14.59	12.27	11.28
	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30624SPGP#U5C-ND	13.27	11.16	10.26
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30625FGPGP#U3C-ND	22.40	19.04	17.64
	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	128-LQFP	M30625FGPGP#U5C-ND	21.34	18.14	16.81
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30625FGPGP#U7C-ND	22.66	19.27	17.85
	256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	128-LQFP	M30625FGPGP#U9C-ND	21.60	18.36	17.01
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FHPFP#U3C-ND	24.64	20.95	19.41
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30626FHPFP#U5C-ND	23.46	19.95	18.48
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FHPFP#U7C-ND	24.90	21.17	19.61
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30626FHPFP#U9C-ND	23.74	20.18	18.70
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626FHPGP#U3C-ND	23.78	20.22	18.73
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30626FHPGP#U5C-ND	22.66	19.27	17.85
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626FHPGP#U7C-ND	24.06	20.46	18.95
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30626FHPGP#U9C-ND	22.94	19.50	18.07
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FJPFP#U3C-ND	27.44	23.33	21.61
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30626FJPFP#U5C-ND	26.14	22.22	20.59
	512K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FJPFP#U7C-ND	27.70	23.55	21.82
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626FJPGP#U3C-ND	26.62	22.63	20.97
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30626FJPGP#U5C-ND	25.34	21.54	19.96
	512K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626FJPGP#U7C-ND	26.88	22.85	21.17
ROMless	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626SPFP#U3C-ND	16.28	13.69	12.58
	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30626SPFP#U5C-ND	15.42	12.97	11.92
	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626SPGP#U3C-ND	15.03	12.64	11.62
	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30626SPGP#U5C-ND	13.64	11.47	10.54
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FHPGP#U3C-ND	25.20	21.42	19.85
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FHPGP#U7C-ND	25.46	21.65	20.05
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	128-LQFP	M30627FHPGP#U9C-ND	24.26	20.63	19.11
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FJPGP#U3C-ND	28.00	23.80	22.05
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	128-LQFP	M30627FJPGP#U5C-ND	26.66	22.67	21.00
	512K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FJPGP#U7C-ND	28.26	24.03	22.26
	512K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	128-LQFP	M30627FJPGP#U9C-ND	26.94	22.90	21.22
	256K	—	10K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306N4FGGP#U3-ND	25.34	21.54	19.96
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NKFHGP#U3-ND	29.34	24.94	23.11
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NKFJGP#U3-ND	32.00	27.20	25.20
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 2 CAN	—/11/—	114	24MHz/3.0 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NMFJGP#U3-ND	33.34	28.34	26.26
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART	—/11/—	88	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30803FGGP#U3-ND	48.91	42.31	39.66
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART	—/11/—	124	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30805FGGP#U5-ND	51.08	44.18	41.42
	256K	8K	512K	26-ch. 10-bit	2-ch. 8-bit	UART, I^{2}C, Smart Card, SSU*	—/11/—	88	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	R5F3640DDFA#U0-ND	15.47	13.01	11.96
	256K	8K	512K	26-ch. 10-bit	2-ch. 8-bit	UART, I^{2}C, Smart Card, SSU*	—/11/—	88	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	R5F3640DDFB#U0-ND	13.46	11.33	10.41
	256K	8K	512K	26-ch. 10-bit	2-ch. 8-bit	UART, I^{2}C, Smart Card, SSU*	—/11/—	88	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	R5F3640DNFA#U0-ND	12.80	10.77	9.90
	256K	8K	512K	26-ch. 10-bit	2-ch. 8-bit	UART, I^{2}C, Smart Card, SSU*	—/11/—	88	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	R5F3640DNFB#U0-ND	12.28	10.33	9.49

*SSU = SPI®

M16C Tiny Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	24K	—	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F3AGP#U3-ND	11.73	10.32	8.92
	24K	—	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F3AGP#U3A-ND	11.73	9.62	8.68
	24K	—	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F3AGP#U5A-ND	11.10	9.11	8.22
	24K	4K	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F3AGP#U7A-ND	12.08	9.91	8.94
	24K	4K	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F3AGP#U9A-ND	11.43	9.37	8.46
	48K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F6AGP#U3A-ND	11.18	9.40	8.64
	48K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F6AGP#U5A-ND	12.08	9.91	8.94
	48K	4K	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F6AGP#U7A-ND	11.46	9.64	8.86
	48K	4K	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F6AGP#U9A-ND	12.40	10.17	9.18
	64K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F8AGP#U3A-ND	11.73	9.87	9.07
	64K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F8AGP#U5A-ND	11.18	9.40	8.64
	64K	4K	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F8AGP#U7A-ND	12.03	10.12	9.30
	64K	4K	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	48-LQFP	M30260F8AGP#U9A-ND	11.46	9.64	8.86
	24K	4K	1K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	38	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30262F3GP#U7-ND	9.66	7.73	6.53
	24K	—	1K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F3AFP#U5A-ND	11.10	9.11	8.22
	48K	—	2K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F6AFP#U5A-ND	12.08	9.91	8.94
	64K	—	2K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F8AFP#U5A-ND	11.18	9.40	8.64
	48K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F6HP#U3B-ND	13.13	11.05	10.15
	48K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F6HP#U5B-ND	12.58	10.59	9.73
	48K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F6HP#U7B-ND	13.44	11.31	10.39

*SSU = SPI®

(Continued)

Microcontrollers

M16C Family M16C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	48K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F6HP#U9-ND	12.87	10.83	9.95
	48K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F6HP#U9B-ND	12.87	10.83	9.95
	64K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F8HP#U3B-ND	13.71	11.53	10.60
	64K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F8HP#U5B-ND	13.13	11.05	10.15
	64K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F8HP#U7-ND	13.99	11.77	10.82
	64K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F8HP#U7B-ND	13.99	11.77	10.82
	64K	4K	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F8HP#U9B-ND	13.44	11.31	10.39
	96K	—	8K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FAHP#U3B-ND	14.81	12.46	11.45
	96K	—	8K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280FAHP#U5B-ND	14.26	11.99	11.02
	96K	4K	8K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FAHP#U7B-ND	15.11	12.71	11.68
	96K	4K	8K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280FAHP#U9B-ND	14.54	12.23	11.24
	128K	—	12K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FCHP#U3B-ND	16.15	13.58	12.48
	128K	—	12K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280FCHP#U5B-ND	15.38	12.94	11.89
	128K	4K	12K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FCHP#U7B-ND	16.43	13.82	12.70
	128K	4K	12K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280FCHP#U9B-ND	15.66	13.18	12.11
	48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F6HP#U3-ND	12.58	10.59	9.73
	48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F6HP#U3B-ND	12.58	10.59	9.73
	48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281F6HP#U5-ND	12.03	10.12	9.30
	48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281F6HP#U5B-ND	12.03	10.12	9.30
	48K	4K	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F6HP#U7-ND	12.87	10.83	9.95
	48K	4K	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F6HP#U7B-ND	12.87	10.83	9.95
	48K	4K	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281F6HP#U9B-ND	12.32	10.36	9.52
	64K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F8HP#U3B-ND	13.13	11.05	10.15
	64K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281F8HP#U5B-ND	12.58	10.59	9.73
	64K	4K	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F8HP#U7B-ND	13.44	11.31	10.39
	64K	4K	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281F8HP#U9B-ND	12.87	10.83	9.95
	96K	—	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FAHP#U3-ND	14.26	11.99	11.02
	96K	—	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FAHP#U3B-ND	14.26	11.99	11.02
	96K	4K	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FAHP#U7B-ND	14.54	12.23	11.24
	96K	4K	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281FAHP#U9B-ND	13.99	11.77	10.82
	96K	—	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FATHP#U3A-ND	18.85	15.86	14.57
	128K	—	12K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FCHP#U3B-ND	15.55	13.08	12.02
	128K	4K	12K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FCHP#U7B-ND	15.84	13.32	12.24
	128K	4K	12K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30281FCHP#U9B-ND	15.11	12.71	11.68
	96K	—	8K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FAHP#U3A-ND	17.05	14.34	13.18
	96K	—	8K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30290FAHP#U5A-ND	16.19	13.62	12.52
	96K	4K	8K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FAHP#U7A-ND	17.34	14.58	13.40
	96K	4K	8K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30290FAHP#U9A-ND	16.48	13.86	12.74
	128K	—	12K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1 CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FCHP#U3A-ND	18.46	15.53	14.27
	128K	—	12K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1 CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30290FCHP#U5A-ND	17.60	14.80	13.60
	128K	4K	12K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1 CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FCHP#U7A-ND	18.74	15.77	14.49
	128K	4K	12K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1 CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30290FCHP#U9A-ND	17.89	15.05	13.83
	96K	—	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FAHP#U3A-ND	16.48	13.86	12.74
	96K	—	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30291FAHP#U5A-ND	15.64	13.16	12.09
	96K	4K	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FAHP#U7A-ND	16.79	14.12	12.98
	96K	4K	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30291FAHP#U9A-ND	15.93	13.40	12.31
	96K	—	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 125°C	64-LQFP	M30291FAVHP#U3A-ND	20.26	17.23	15.96
	128K	—	12K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FCHP#U3A-ND	17.89	15.05	13.83
	128K	—	12K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30291FCHP#U5A-ND	17.05	14.34	13.18
	128K	4K	12K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FCHP#U7A-ND	18.19	15.30	14.06
	128K	4K	12K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M30291FCHP#U9A-ND	17.34	14.58	13.40

*SSU = SPI®

M32 Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C	—/11/—	48	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30800SAFP#U5-ND◆	12.61	10.61	9.75
	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C	—/11/—	48	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30800SAFP-BL#U5-ND◆	13.20	11.10	10.20
	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C	—/11/—	48	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30800SAGP#U5-ND◆	11.73	9.87	9.07
	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C	—/11/—	48	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30800SAGP-BL#U5-ND◆	12.32	10.36	9.52
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30833FJFP#U3-ND◆	49.56	42.87	40.19
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30833FJFP#U5-ND◆	47.19	40.82	38.27
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30833FJGP#U3-ND◆	49.27	42.61	39.95
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30833FJGP#U5-ND◆	46.86	40.53	38.00
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30835FJGP#U5-ND◆	48.93	42.32	39.68
ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30840SGP#U5-ND◆	13.00	10.94	10.05
	—	—	10K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30842SGP#U5-ND◆	14.37	12.09	11.11
Flash	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30843FHFP#U3-ND◆	33.14	28.17	26.10
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30843FHFP#U5-ND◆	30.14	25.62	23.74
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FHGP#U3-ND◆	32.26	27.43	25.41
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30843FHGP#U5-ND◆	29.34	24.94	23.11

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

M32 Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FJFP#U3-ND◆	36.08	30.67	28.42
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30843FJFP#U5-ND◆	32.80	27.88	25.83
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FJGP#U3-ND◆	35.20	29.92	27.72
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30843FJGP#U5-ND◆	32.00	27.20	25.20
	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FWGP#U3-ND◆	30.80	26.18	24.26
	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30843FWGP#U5-ND◆	28.00	23.80	22.05
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FHGP#U3-ND◆	36.66	31.17	28.87
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30845FHGP#U5-ND◆	33.34	28.34	26.26
	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FJGP#U3-ND◆	39.60	33.66	31.19
	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30845FJGP#U5-ND◆	36.00	30.60	28.35
	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FWGP#U3-ND◆	35.20	29.92	27.72
	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30845FWGP#U5-ND◆	32.00	27.20	25.20
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FHFP#D5-ND	31.46	26.75	24.78
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30853FHFP#U3-ND◆	34.62	29.43	27.27
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FHFP#U5-ND◆	31.46	26.75	24.78
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30853FHGP#U3-ND◆	33.74	28.68	26.58
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30853FHGP#U5-ND◆	30.66	26.07	24.15
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30853FJFP#U3-ND◆	37.56	31.93	29.58
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FJFP#U5-ND◆	34.14	29.02	26.89
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30853FJGP#U3-ND◆	36.66	31.17	28.87
	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30853FJGP#D5-ND	33.34	28.34	26.26
	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FWFP#U5-ND◆	38.94	33.68	31.58
	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30853FWGP#U5-ND◆	38.65	33.43	31.34
	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30853FWGP#U3-ND◆	40.57	35.09	32.90
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FHGP#U3-ND◆	38.14	32.42	30.04
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30855FHGP#U5-ND◆	34.66	29.47	27.30
	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FWGP#U3-ND◆	42.72	36.95	34.64
	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30855FWGP#U5-ND◆	40.70	35.20	33.00
	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FJGP#U3-ND◆	37.98	32.85	30.80
	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30855FJGP#U5-ND◆	37.34	31.74	29.41
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30873FHAGP#U3-ND◆	26.94	22.90	21.22
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C - 85°C	100-LQFP	M30873FHAGP#U5-ND◆	24.48	20.81	19.28
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30873FHBGP#U3-ND◆	26.14	22.22	20.59
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C - 85°C	100-LQFP	M30873FHBGP#U5-ND◆	23.76	20.20	18.72
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30873FHGP#U5-ND◆	25.20	21.42	19.85
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHAGP#U3-ND◆	29.36	24.96	23.13
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30875FHAGP#U5-ND◆	26.90	22.87	21.19
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHBGP#U3-ND◆	28.56	24.28	22.50
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30875FHBGP#U5-ND◆	26.18	22.26	20.62
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHGP#U3-ND◆	30.16	25.64	23.76
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30875FHGP#U5-ND◆	27.62	23.48	21.76
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJAGP#U3-ND◆	29.86	25.39	23.52
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30876FJAGP#U5-ND◆	27.14	23.07	21.38
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJBGP#U3-ND◆	29.06	24.71	22.89
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30876FJBGP#U5-ND◆	26.42	22.46	20.81
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJGP#U3-ND◆	30.66	26.07	24.15
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30876FJGP#U5-ND◆	27.86	23.69	21.94
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJAGP#U3-ND◆	32.30	27.46	25.44
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30878FJAGP#U5-ND◆	29.58	25.15	23.30
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJBGP#U3-ND◆	31.74	26.98	25.00
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30878FJBGP#U5-ND◆	28.86	24.54	22.73
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJGP#U3-ND◆	33.10	28.14	26.07
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30878FJGP#U5-ND◆	30.30	25.76	23.87
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FKAGP#U3-ND◆	33.52	28.50	26.40
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FKAGP#U5-ND◆	30.48	25.91	24.01
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FKBGP#U3-ND◆	32.12	27.31	25.30
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FKBGP#U5-ND◆	29.10	24.74	22.92
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FKGP#U3-ND◆	33.60	28.56	26.46
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FKGP#U5-ND◆	30.54	25.96	24.06
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30879FLAFP#U3-ND◆	35.76	30.40	28.17
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FLAGP#U3-ND◆	35.74	30.38	28.15
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FLAGP#U5-ND◆	32.48	27.61	25.58
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30879FLBFP#U3-ND◆	34.34	29.19	27.05
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30879FLBFP#U5-ND◆	31.22	26.54	24.59
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FLBGP#U3-ND◆	34.94	29.70	27.52
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FLBGP#U5-ND◆	31.76	27.00	25.02
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30879FLFP#U3-ND◆	37.02	31.47	29.16
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FLGP#U3-ND◆	36.54	31.06	28.78
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30879FLGP#U5-ND◆	33.20	28.22	26.15
	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFKAGP#U3-ND◆	36.32	30.88	28.61
	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M3087BFKAGP#U5-ND◆	33.02	28.07	26.01
	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFKBGP#U3-ND◆	33.52	28.50	26.40
	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M3087BFKBGP#U5-ND◆	30.48	25.91	24.01
	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFKGP#U3-ND◆	36.26	30.83	28.56
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1,CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFLAGP#U3-ND◆	38.40	32.64	30.24
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1,CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M3087BFLAGP#U5-ND◆	34.90	29.67	27.49
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFLBGP#U3-ND◆	37.36	31.76	29.43
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M3087BFLBGP#U5-ND◆	34.18	29.06	26.92
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFLGP#U3-ND◆	17.82	14.99	13.77
	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M3087BFLGP#U5-ND◆	35.62	30.28	28.06
	320K	—	18K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 3 CAN	—/11/—	88	32MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30880FWTGP#U0-ND◆	47.21	40.84	38.28

◆ ***RoHS Compliant*** *SSU = SPI$^{®}$

Microcontrollers

R8C Tiny Series

The R8C 16-bit microcontrollers are small in size, yet big in performance and value. They excel for 8-bit embedded system applications that need low-cost devices and deliver high performance, yet save space with small, low-pin count packages. These microcontrollers for general purpose applications deliver up to 20MHz speed, up to 96K of on-chip flash memory, offer versatile peripherals, and are packaged with 80 pins or less. Based on the MC16 family of 16-bit microcontrollers, the R8C Tiny inherits the same features of high performance, ROM code efficiency, low power consumption, and low noise, while its instruction compatibility allows the use of existing M16C family software resources.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211A1DD#U0-ND	4.62	3.72	3.39
	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211A1DSP#U0-ND	4.28	3.45	3.14
	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211A1SP#U0-ND	3.92	3.15	2.87
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211A2DD#U0-ND	4.96	3.99	3.63
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211A2DSP#U0-ND	4.62	3.72	3.39
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F211A2NP#U0-ND	5.15	4.14	3.78
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211A2SP#U0-ND	4.26	3.42	3.12
	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SDIP	R5F211A3DD#U0-ND	5.35	4.30	3.92
	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211A3DSP#U0-ND	4.96	3.99	3.63
	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	28-HWQFN	R5F211A3NP#U0-ND	5.52	4.44	4.04
	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211A3SP#U0-ND	4.62	3.72	3.39
	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211A4DD#U0-ND	5.68	4.57	4.17
	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211A4DSP#U0-ND	5.35	4.30	3.92
	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F211A4NP#U0-ND	5.85	4.71	4.29
	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211A4SP#U0-ND	4.96	3.99	3.63
	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211B1DD#U0-ND	5.15	4.14	3.78
	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211B1DSP#U0-ND	4.82	3.87	3.53
	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211B1SP#U0-ND	4.45	3.58	3.26
	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211B2DD#U0-ND	5.52	4.44	4.04
	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211B2DSP#U0-ND	5.18	4.17	3.80
	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F211B2NP#U0-ND	5.68	4.57	4.17
	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211B2SP#U0-ND	4.82	3.87	3.53
	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211B3DD#U0-ND	5.85	4.71	4.29
	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211B3DSP#U0-ND	5.52	4.44	4.04
	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F211B3NP#U0-ND	6.05	4.86	4.43
	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211B3SP#U0-ND	5.15	4.14	3.78
	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211B4DD#U0-ND	6.24	5.02	4.58
	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F211B4DSP#U0-ND	5.91	4.75	4.33
	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F211B4NP#U0-ND	6.38	5.13	4.68
	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211B4SP#U0-ND	5.52	4.44	4.04
	8K	—	500	8-ch. 10-bit	—	2 USART	2/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21102DFP#U0-ND	5.68	4.57	4.17
	8K	—	500	8-ch. 10-bit	—	2 USART	2/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21102FP#U0-ND	5.35	4.30	3.92
	12K	—	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21103DFP#U0-ND	6.05	4.86	4.43
	12K	—	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21103FP#U0-ND	5.68	4.57	4.17
	16K	—	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21104DFP#U0-ND	6.38	5.13	4.68
	16K	—	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21104FP#U0-ND	6.05	4.86	4.43
	8K	—	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21112DFP#U0-ND	5.91	4.75	4.33
	8K	—	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21112FP#U0-ND	5.52	4.44	4.04
	12K	—	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21113DFP#U0-ND	6.24	5.02	4.58
	12K	—	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21113FP#U0-ND	5.85	4.71	4.29
	16K	—	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21114DFP#U0-ND	6.61	5.31	4.84
	16K	—	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21114FP#U0-ND	6.24	5.02	4.58
	8K	4K	500	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21122DFP#U0-ND	6.24	5.02	4.58
	8K	4K	500	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21122FP#U0-ND	5.85	4.71	4.29
	12K	4K	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21123DFP#U0-ND	6.58	5.29	4.82
	12K	4K	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21123FP#U0-ND	6.24	5.02	4.58
	16K	4K	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21124DFP#U0-ND	6.94	5.58	5.09
	16K	4K	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21124FP#U0-ND	6.58	5.29	4.82
	8K	4K	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21132DFP#U0-ND	6.41	5.16	4.70
	8K	4K	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21132FP#U0-ND	6.05	4.86	4.43
	12K	4K	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21133DFP#U0-ND	6.75	5.43	4.95
	12K	4K	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21133FP#U0-ND	6.38	5.13	4.68
	16K	4K	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21134FP#U0-ND	6.75	5.43	4.95
	16K	4K	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21134DFP#U0-ND	6.38	5.23	4.72
	8K	—	500	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21142DSP#U0-ND	4.96	3.99	3.63
	8K	—	500	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21142SP#U0-ND	4.62	3.72	3.39
	12K	—	750	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21143DSP#U0-ND	5.35	4.30	3.92
	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21144DSP#U0-ND	5.68	4.57	4.17
	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21144SP#U0-ND	5.35	4.30	3.92
	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SSOP	R5F21152DSP#U0-ND	5.52	4.44	4.04
	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21152SP#U0-ND	5.15	4.14	3.78
	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21153DSP#U0-ND	5.85	4.71	4.29
	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21154SP#U0-ND	5.85	4.71	4.29
	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21154DSP#U0-ND	6.24	5.02	4.58
	8K	—	500	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21162DSP#U0-ND	5.15	4.14	3.78
	12K	—	750	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21163DSP#U0-ND	5.52	4.44	4.04
	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21164DSP#U0-ND	5.85	4.71	4.29
	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21173DSP#U0-ND	6.05	4.86	4.43
	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21174DSP#U0-ND	6.38	5.13	4.68

*SSU = SPI®

(Continued)

Microcontrollers

R8C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21181DD#U0-ND	4.45	3.58	3.26
	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21181DSP#U0-ND	4.28	3.45	3.14
	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21181SP#U0-ND	3.72	3.00	2.73
	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21182DD#U0-ND	4.82	3.87	3.53
	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21182DSP#U0-ND	4.48	3.60	3.28
	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21182NP#U0-ND	4.96	3.99	3.63
	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21182SP#U0-ND	4.28	3.45	3.14
	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21183DD#U0-ND	5.15	4.14	3.78
	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21183DSP#U0-ND	4.82	3.87	3.53
	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21183NP#U0-ND	5.35	4.30	3.92
	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21183SP#U0-ND	4.45	3.58	3.26
	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21184DD#U0-ND	5.52	4.44	4.04
	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21184DSP#U0-ND	5.18	4.17	3.80
	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21184NP#U0-ND	5.68	4.57	4.17
	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21184SP#U0-ND	4.82	3.87	3.53
	4K	2K	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21191DD#U0-ND	4.96	3.99	3.63
	4K	2K	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21191SP#U0-ND	4.26	3.42	3.12
	4K	2K	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21191DSP#U0-ND	4.62	3.72	3.39
	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21192DD#U0-ND	5.35	4.30	3.92
	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21192DSP#U0-ND	5.01	4.03	3.67
	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21192NP#U0-ND	5.52	4.44	4.04
	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21192SP#U0-ND	4.62	3.72	3.39
	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21193DD#U0-ND	5.68	4.57	4.17
	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21193DSP#U0-ND	5.35	4.30	3.92
	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21193NP#U0-ND	5.85	4.71	4.29
	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21193SP#U0-ND	4.96	3.99	3.63
	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F21194DD#U0-ND	6.05	4.86	4.43
	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21194DSP#U0-ND	5.71	4.59	4.19
	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	28-HWQFN	R5F21194NP#U0-ND	6.24	5.02	4.58
	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F21194SP#U0-ND	5.35	4.30	3.92
	96K	—	7K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212AASDFA#U0-ND	8.68	7.12	6.42
	96K	—	7K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212AASDFP#U0-ND	8.68	7.12	6.42
	128K	—	7.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-TFLGA	R5F212ACSNLG#U0-ND	11.00	9.02	8.14
	48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212A7SDFP#U0-ND	7.68	6.30	5.68
	48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212A7SNFP#U0-ND	7.33	6.01	5.43
	48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212A7SNFA#U0-ND	7.33	6.01	5.43
	64K	—	3K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212A8SNFP#U0-ND	7.68	6.30	5.68
	64K	—	3K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212A8SNFA#U0-ND	7.68	6.30	5.68
	96K	1K	7K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212BASDFA#U0-ND	9.18	7.53	6.79
	128K	1K	7.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212BCSDFA#U0-ND	9.83	8.06	7.28
	128K	1K	7.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212BCSDFP#U0-ND	9.83	8.06	7.28
	128K	1K	7.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212BCSNFA#U0-ND	9.50	7.79	7.03
	128K	2K	7.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212BCSNFP#U0-ND	9.50	7.79	7.03
	48K	1K	2.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212B7SDFA#U0-ND	8.18	6.71	6.05
	48K	1K	2.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212B7SDFP#U0-ND	8.18	6.71	6.05
	48K	1K	2.5K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212B7SNFA#U0-ND	7.83	6.42	5.80
	48K	2K	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212B7SNFP#U0-ND	6.35	5.21	4.70
	64K	1K	3K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212B8SDFA#U0-ND	8.50	6.97	6.29
	64K	1K	3K	12-ch. 10-bit	2-ch. 8-bit	UART, SSU, SIO, I^{2}C	3/4/—	55	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212B8SNFA#U0-ND	8.18	6.71	6.05
	64K	2K	3K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212B8SNFP#U0-ND	8.18	6.71	6.05
	128K	2K	7.5K	20-ch. 10-bit	2-ch. 8-bit	3 USART, I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212DCSNFP#U0-ND	10.18	8.35	7.53
	48K	2K	2.5K	20-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212D7SNFP#U0-ND	8.50	6.97	6.29
	64K	2K	3K	20-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212D8SNFP#U0-ND	8.83	7.24	6.54
	16K	16K	512	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F212G4SDFP#U0-ND	3.56	2.86	2.61
	16K	16K	512	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212G4SNFP#U0-ND	3.16	2.55	2.32
	24K	24K	1K	—	—	UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F212G5SDFP#U0-ND	5.04	4.05	3.69
	24K	24K	1K	—	—	UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212G5SNFP#U0-ND	3.56	2.86	2.61
	32K	32K	1K	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F212G6SDFP#U0-ND	4.28	3.45	3.14
	32K	32K	1K	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212G6SNFP#U0-ND	3.92	3.15	2.87
	4K	4K	256	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SSOP	R5F212H1SDSP#U0-ND	3.01	2.43	2.19
	4K	4K	256	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212H1SNSP#U0-ND	2.57	2.08	1.87
	8K	8K	384	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SSOP	R5F212H2SDSP#U0-ND	3.08	2.48	2.26
	8K	8K	384	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212H2SNSP#U0-ND	3.01	2.43	2.19
	2K	2K	256	—	—	UART	2/1/—	12	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SSOP	R5F212J0SDSP#U0-ND	2.57	2.08	1.87
	2K	2K	256	—	—	1 UART	2/1/—	12	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212J0SNSP#U0-ND	2.17	1.75	1.58
	4K	4K	384	—	—	2 UART	2/1/2	12	8MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SSOP	R5F212J1SDSP#U0-ND	2.79	2.25	2.03
	4K	4K	384	—	—	2 UART	2/1/—	12	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212J1SNSP#U0-ND	2.39	1.93	1.74
	8K	1K	1K	9-ch., 10-bit	—	UART, SSI	2/3/—	25	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212K2SNFP#U0-ND	5.96	4.80	4.37
	8K	1K	1K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212L2SNFP#U0-ND	6.52	5.25	4.78
	16K	1K	1.5K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212L4SNFP#U0-ND	6.92	5.56	5.07

*SSU = SPI®

(Continued)

R8C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21206JFP#U1-ND	6.68	5.48	4.94
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21206KFP#U1-ND	7.30	5.99	5.41
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21207JFP#U1-ND	7.30	5.99	5.41
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21207KFP#U1-ND	7.93	6.50	5.87
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21208JFP#U1-ND	7.93	6.50	5.87
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21208KFP#U1-ND	8.58	7.04	6.35
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21216JFP#U1-ND	7.93	6.50	5.87
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21216KFP#U1-ND	8.58	7.04	6.35
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21217KFP#U1-ND	9.20	7.55	6.81
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21218JFP#U1-ND	9.20	7.55	6.81
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21218KFP#U1-ND	9.83	8.06	7.28
	96K	—	5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2122AJFP#U0-ND	9.40	7.71	6.96
	96K	—	5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F2122AKFP#U0-ND	10.00	8.20	7.40
	128K	—	6K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2122CJFP#U0-ND	10.00	8.20	7.40
	128K	—	6K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F2122CKFP#U0-ND	10.60	8.70	7.85
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21226DFP#U0-ND	7.68	6.30	5.68
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21226JFP#U1-ND	7.93	6.50	5.87
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21226KFP#U1-ND	8.58	7.04	6.35
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21227JFP#U1-ND	8.58	7.04	6.35
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21227KFP#U1-ND	9.20	7.55	6.81
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21228DFP#U0-ND	8.33	6.83	6.17
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21228JFP#U1-ND	9.20	7.55	6.81
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21228KFP#U1-ND	9.83	8.06	7.28
	96K	1K	5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2123AJFP#U0-ND	10.60	8.70	7.85
	96K	1K	5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2123AKFP#U0-ND	11.20	9.19	8.29
	128K	1K	6K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2123CJFP#U0-ND	11.20	9.19	8.29
	128K	1K	6K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F2123CKFP#U0-ND	11.83	9.70	8.76
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21236DFP#U0-ND	8.18	6.71	6.05
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21236JFP#U1-ND	9.20	7.55	6.81
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21236KFP#U1-ND	9.83	8.06	7.28
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21237DFP#U0-ND	8.50	6.97	6.29
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	16MHz/3.0 ~ 5.5V	-40°C ~ 125°C	48-LQFP	R5F21237KFP#U1-ND	10.48	8.59	7.76
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21238DFP#U0-ND	8.83	7.24	6.54
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I^{2}C, CAN	3/2/—	41	20MHz/3.0 ~ 5.5V	-40°C ~ 85°C	48-LQFP	R5F21238JFP#U1-ND	10.48	8.59	7.76
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21244SDFP#U0-ND	6.75	5.43	4.95
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21244SNFP#U0-ND	6.38	5.13	4.68
	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21246SDFP#U0-ND	6.38	5.23	4.72
	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21246SNFP#U0-ND	6.75	5.43	4.95
	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21247SDFP#U0-ND	7.00	5.74	5.18
	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21247SNFP#U0-ND	6.68	5.48	4.94
	64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21248SDFP#U0-ND	7.25	5.95	5.37
	64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21248SNFP#U0-ND	7.00	5.74	5.18
	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21254SDFP#U0-ND	6.53	5.36	4.83
	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21254SNFP#U0-ND	6.94	5.58	5.09
	32K	2K	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21256SDFP#U0-ND	6.83	5.60	5.06
	32K	2K	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21256SNFP#U0-ND	6.50	5.33	4.81
	48K	2K	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21257SDFP#U0-ND	7.50	6.15	5.55
	48K	2K	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21257SNFP#U0-ND	7.18	5.89	5.31
	64K	2K	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	52-LQFP	R5F21258SDFP#U0-ND	7.83	6.42	5.80
	64K	2K	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	52-LQFP	R5F21258SNFP#U0-ND	7.50	6.15	5.55
	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21262SDFP#U0-ND	5.96	4.80	4.37
	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21262SNFP#U0-ND	5.60	4.50	4.10
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21264SDFP#U0-ND	6.36	5.11	4.66
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21264SNFP#U0-ND	5.96	4.80	4.37
	24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21265SDFP#U0-ND	6.72	5.40	4.92
	24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21265SNFP#U0-ND	6.36	5.11	4.66
	32K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21266SDFP#U0-ND	6.33	5.19	4.69
	32K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21266SNFP#U0-ND	6.72	5.40	4.92
	8K	2K	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21272SDFP#U0-ND	6.52	5.25	4.78
	8K	2K	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21272SNFP#U0-ND	6.16	4.95	4.51
	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21274SDFP#U0-ND	6.92	5.56	5.07
	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21274SNFP#U0-ND	6.52	5.25	4.78
	24K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21275SDFP#U0-ND	6.50	5.33	4.81
	24K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21275SNFP#U0-ND	6.92	5.56	5.07
	32K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21276SDFP#U0-ND	6.83	5.60	5.06
	32K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21276SNFP#U0-ND	6.50	5.33	4.81
	32K	1K	1.5K	12-ch. 10-bit	—	UART, SIO, I^{2}C	3/1/—	25	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21276SYFP#U0-ND	7.25	5.95	5.37
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21282SDSP#U0-ND	5.24	4.21	3.84
	16K	1K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21284SDSP#U0-ND	5.60	4.50	4.10
	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21294SDSP#U0-ND	4.95	3.96	3.08

*SSU = SPI®

Microcontrollers

740 Family

Memory Type	ROM Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
												1	25	100
Flash	36K	1K	8-ch. 10-bit	—	2 USART	2/2/—	29	8MHz/2.2 ~ 5.5V	-20°C ~ 85°C	36-SSOP	M37542F8FP#U0-ND	10.80	8.86	8.00
	16K	512	8-ch. 8-bit	—	CAN, SSIO, UART	3/2/—	35	10MHz/4.0 ~ 5.5V	-20°C ~ 85°C	44-QFP	M37630E4FP#U3-ND	20.94	17.80	16.50
	32K	1K	—	—	3 USART, 1 USB	3/2/—	66	24MHz/3.0 ~ 5.25V	-20°C ~ 70°C	80-LQFP	M37641F8HP#U0-ND	14.26	11.99	11.02
OTP	24K	512	8-ch. 8-bit	—	1 USART	3/2/—	38	8MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38C13E6HP#U0-ND	8.50	6.97	6.29
Flash	60K	2K	8-ch. 10-bit	—	2 USART	4/2/—	51	8MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38C29FFAFP#U0-ND	12.38	10.15	9.16
QzROM	16K	625	8-ch. 10-bit	—	2 USART	4/6/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38D24G4FP#U0-ND	5.96	4.80	4.37
	16K	625	8-ch. 10-bit	—	2 USART	4/6/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38D24G4HP#U0-ND	5.96	4.80	4.37
	24K	625	8-ch. 10-bit	—	2 USART	4/2/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38D24G6FP#U0-ND	6.36	5.11	4.66
	24K	625	8-ch. 10-bit	—	2 USART	4/2/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38D24G6HP#U0-ND	6.36	5.11	4.66
	32K	1.5K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP	M38D58G8FP#U0-ND	6.68	5.48	4.94
	32K	1.5K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M38D58G8HP#U0-ND	6.68	5.48	4.94
	48K	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP	M38D59GCFP#U0-ND	7.00	5.74	5.18
	48K	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M38D59GCHP#U0-ND	7.00	5.74	5.18
	60K	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP	M38D59GFFP#U0-ND	7.30	5.99	5.41
	60K	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M38D59GFHP#U0-ND	7.30	5.99	5.41
Flash	32K	2K	8-ch. 10-bit	—	1 USART	3/—/—	44	8MHz/3.0 ~ 5.2V	-20°C ~ 85°C	64-LQFP	M38K29F8LHP#U0-ND	12.91	10.86	9.98
	60K	2048	16-ch. 10-bit	2-ch. 8-bit	SIO, UART	4/1/—	56	16.8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039FFLHP#U0-ND	12.00	9.84	8.88
QzROM	60K	2048	16 ch. 10-bit	2-ch. 8-bit	SIO, UART	4/1/—	56	16MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039G4HKP#U0-ND	5.80	4.66	4.25
	48K	2K	16-ch. 10-bit	2-ch. 8-bit	3 UART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039GCHHP#U0-ND	6.72	5.40	4.92
	16K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039G4HHP#U0-ND	4.93	3.96	3.61
	16K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-SDIP	M38039G4HSP#U0-ND	6.86	5.52	5.03
	24K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~5.5V	-20°C ~ 85°C	64-LQFP	M38039G6HHP#U0-ND	5.24	4.21	3.84
	24K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~5.5V	-20°C ~ 85°C	64-LQFP	M38039G6HKP#U0-ND	5.38	4.32	3.94
	24K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~5.5V	-20°C ~ 85°C	64-SDIP	M38039G6HSP#U0-ND	6.43	5.27	4.76
	32K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039G8HHP#U0-ND	5.57	4.48	4.08
	32K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039G8HKP#U0-ND	5.71	4.59	4.19
	32K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-SDIP	M38039G8HSP#U0-ND	6.73	5.52	4.98
	48K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039GCHKP#U0-ND	6.92	5.56	5.07
	48K	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 ~ 5.5V	-20°C ~ 85°C	64-SDIP	M38039GCHSP#U0-ND	8.00	6.56	5.92
	16K	512	9-ch. 10-bit	2-ch. 8-bit	2 UART	4/1/—	34	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M38503G4AFP#U1-ND	4.84	3.90	3.55
	16K	512	9-ch. 10-bit	2-ch. 8-bit	2 UART	4/—/—	34	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	42-DIP	M38503G4ASP#U1-ND	6.36	5.11	4.66
Flash	32K	1K	9-ch. 10-bit	—	2 USART	4/—/—	34	12.5MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M38507F8AFP#U1-ND	11.00	9.02	8.14
QzROM	48K	1.5K	—	—	2 USART	4/1/—	34	12.5MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M38588GCFP#U0-ND	6.68	5.48	4.94
	48K	1.5K	—	—	2 USART	4/1/—	34	12.5MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SDIP	M38588GCSP#U0-ND	7.63	6.26	5.65
Flash	60K	2K	8-ch. 10-bit	2-ch. 8-bit	2 USART	4/—/—	72	10MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP	M38869FFAGP#U0-ND	11.97	10.07	9.25
	60K	2K	8-ch. 10-bit	2-ch. 8-bit	2 USART	4/—/—	72	10MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M38869FFAHP#UU-ND	21.23	17.86	16.41
ROMless	—	148K	—	—	3 UART, 1 USART, 1 I^{2}C	—/4/4	132	266MHz/1.2V	-20°C ~ 70°C	449-BGA	R8A77220AC266BGV-ND	42.43	37.72	34.18

SuperH™ Family

SuperH is an embedded RISC developed for high performance, miniaturization and performance per power consumption (MIPS/W). Renesas is developing CPU cores for a wide range of applications and functions and have many products. These product lines include the series with SH-2 as the CPU core with on-chip large capacity flash memory and peripheral functions such as timer, serial and AD converter, and the series with SH-3 and SH-4 as the CPU core which enable high-speed data processing and come equipped with cache and MMU. Additionally, there is lineup of series with SH2-DSP and SH3-DSP as the CPU core, which have full DSP functions and an emphasis on multimedia processing and communications processing. Currently available series (products) also have lots of features such as low power mode, contributing to low power consumption and miniaturization for application hardware. Various versatile operating systems and development tools have been improved and, crucially, more efficient development can be achieved.

SH Series

Memory Type	ROM Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
												1	25	100
ROMless	—	8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I^{2}C	—/5/—	106	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	114-LQFP	HD6417145F50V-ND	14.52	12.21	11.22
	—	—	8-ch. 10-bit	2-ch. 10-bit	UART	—/1/3	96	100MHz/3.3V	-20°C ~ 75°C	208-QFP	D6417709SF100BV-ND	28.76	24.45	22.65
	—	—	8-ch. 10-bit	2-ch. 10-bit	UART	—/1/3	96	137MHz/3.3V	-20°C ~ 75°C	208-QFP	D6417709SF133BV-ND	31.62	26.88	24.91
Flash	256K	12K	16-ch. 10-bit	—	3 USART, IrDA, 1 CAN	—/5/—	69	50MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	HD64F7047F50V-ND	25.38	21.58	19.99
ROMless	—	16K	8 ch. 10-bit	—	SCI, SSU, I^{2}C	—/11/—	65	80MHz/4.5 ~ 5.5V	-20°C ~ 85°C	100-TQFP	DS70830AN80FTV-ND	14.32	12.05	11.07
	—	16K	8 ch. 10-bit	—	SCI, SSU, I^{2}C	—/11/—	100	80MHz/4.5 ~ 5.5V	-20°C ~ 85°C	144-LQFP	DS70850AD80FPV-ND	20.06	16.88	15.51
	—	16K	—	—	4 USART, IrDA	—/2/—	78	125MHz/1.71 ~ 1.89V	-20°C ~ 70°C	176-LFBGA	DS76190B125BGV-ND	24.12	20.51	19.00
	—	16K	—	—	4 USART, IrDA	—/2/—	78	125MHz/1.71 ~ 1.89V	-20°C ~ 70°C	176-LFBGA	DS76190N125BGV-ND	25.34	21.54	19.96

*SSU = SPI®

SH-2 Series

Memory Type	ROM Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
												1	25	100
ROMless	—	3K	8-ch. 10-bit	—	2 USART, IrDA	—/3/—	43	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD6417014F28V-ND	18.46	15.53	14.27
	—	3K	8-ch. 10-bit	—	2 USART, IrDA	—/3/—	43	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD6417014RF28V-ND	18.46	15.53	14.27
	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	16.7MHz/3.0 ~ 3.6V	-20°C ~ 75°C	112-QFP	HD6417040AVCF16V-ND	24.88	21.15	19.60
	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD6417040ACF28V-ND	29.00	24.65	22.84
	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	HD6417041ACF28V-ND	24.64	20.95	19.41
	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	HD6417041AF28V-ND	24.64	20.95	19.41
	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	16.7MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	HD6417041AVF16V-ND	25.66	21.82	20.21
	—	8K	8-ch. 10-bit	—	4 USART, IrDA,	—/5/—	82	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	112-QFP	HD6417144F50V-ND	13.71	11.53	10.60
	—	8K	8-ch. 10-bit	—	Smart Card, 1 I^{2}C	—/5/—	82	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	112-QFP	HD6417144FW50V-ND	14.52	12.21	11.22
	—	8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I^{2}C	—/5/—	106	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	114-LQFP	HD6417145FW50V-ND	15.38	12.94	11.89
	—	4K	—	—	3 USART, IrDA	—/—/—	78	100MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	D17606BG100V-ND	19.56	16.45	15.12
	—	4K	—	—	3 USART, IrDA	—/—/—	78	100MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	D17606BGN100V-ND	19.56	16.45	15.12
	—	4K	—	—	3 USART, IrDA	—/—/—	78	100MHz/3.0 ~ 3.6V	-40°C ~ 85°C	176-LFBGA	D17606BGW100V-ND	21.49	18.08	16.61
	—	8K	—	—	5 USART, IrDA	—/4/—	30	62.5MHz/3.0 ~ 3.6V	-20°C ~ 75°C	240-LFBGA	HD6417615ARBPV-ND	33.02	28.07	26.01
	—	8K	—	—	5 USART, IrDA	—/4/—	30	62.5MHz/3.0 ~ 3.6V	-20°C ~ 75°C	208-LQFP	HD6417615ARFV-ND	29.20	24.82	23.00
	—	8K	—	—	5 USART, IrDA	—/4/—	30	62.5MHz/3.0 ~ 3.6V	-20°C ~ 75°C	208-LQFP	HD6417616SFV-ND	33.02	28.07	26.01
	—	4K	—	—	3 USART IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-20°C ~ 75°C	176-LFBGA	D17618ABG100V-ND	31.80	27.03	25.05
	—	4K	—	—	3 USART IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-20°C ~ 75°C	176-LFBGA	D17618ABGN100V-ND	50.69	43.84	41.10
	—	4K	—	—	3 USART IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-40°C ~ 85°C	176-LFBGA	D17618ABGW100V-ND	51.00	45.00	42.75
	—	4K	—	—	3 USART IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-40°C ~ 85°C	176-LFBGA	D17618RBGW100V-ND	21.49	18.08	16.61
	—	4K	—	—	3 USART, IrDA	—/2/—	71	100MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	D17618RBG100V-ND	19.56	16.45	15.12
	—	4K	—	—	3 USART, IrDA	—/2/—	71	100MHz/3.0 ~ 3.6V	-20°C ~ 75°C	176-LFBGA	D17618RBGN100V-ND	19.56	16.45	15.12

*SSU = SPI®

(Continued)

Microcontrollers

SuperH™ Family SH-2 Series *(Cont.)*

Memory Type	ROM Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
												1	25	100
Flash	128K	4K	8-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD64F7017F28V-ND	32.00	27.20	25.20
	256K	4K	8-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD64F7044F28V-ND	48.62	42.05	39.42
	256K	4K	8-ch. 10-bit	—	2 USART	WDT, MTU, CMT	106	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	HD64F7045F28V-ND	51.21	44.29	41.52
	256K	12K	12-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	54	50MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	HD64F7046F50V-ND	24.14	20.52	19.02
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	73	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF70834AD80FTV-ND	22.86	19.44	18.01
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		73	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-TQFP	DF70834AN80FTV-ND	21.82	18.55	17.19
	512	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		73	80MHz/3.0 ~ 5.5V	0°C ~ 50°C	100-TQFP	DE70835RN80FTV-ND	117.03	105.52	102.07
	512	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		73	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF70835AD80FTV-ND	29.34	24.94	23.11
	512	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		73	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-TQFP	DF70835AN80FTV-ND	26.66	22.67	21.00
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		84	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	112-LQFP	DF70844AD80FPV-ND	24.80	21.08	19.53
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		84	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	112-LQFP	DF70844AN80FPV-ND	22.54	19.16	17.76
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		84	80MHz/3.0 ~ 5.5V	0°C ~ 50°C	112-LQFP	DE70845RN80FPV-ND	117.03	105.52	102.07
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		84	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	112-LQFP	DF70845AD80FPV-ND	30.14	25.62	23.74
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		84	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	112-LQFP	DF70845AN80FPV-ND	27.38	23.28	21.57
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	DF70854AD80FPV-ND	26.66	22.67	21.00
	256K	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	DF70854AN80FPV-ND	24.24	20.61	19.09
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	0°C ~ 50°C	144-LQFP	DE70855RN80FPV-ND	116.11	104.70	101.27
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	144-LQFP	DF70855AD80FPV-ND	30.48	25.91	24.01
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	DF70855AN80FPV-ND	29.00	24.65	22.84
	512K	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		108	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	144-LQFP	DF70855RN80FPV-ND	88.00	78.38	74.25
	512K	32K	16-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		134	80MHz/3.0 ~ 5.5V	0°C ~ 50°C	176-LQFP	DE70865RN80FPV-ND	117.03	105.52	102.07
	512K	32K	16-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		134	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	176-LQFP	DF70865AD80FPV-ND	33.02	28.07	26.01
	512K	32K	16-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C		134	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	176-LQFP	DF70865AN80FPV-ND	31.52	26.80	24.83
	128K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C	48-LQFP	DF71243D50FPV-ND	17.75	14.93	13.72
	128K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 ~ 5.5V	-20°C ~ 85°C	48-LQFP	DF71243N50FPV-ND	17.45	14.68	13.49
	64K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C	64-QFP	DF71252D50FAV-ND	17.60	14.80	13.60
	64K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C	64-LQFP	DF71252D50FPV-ND	17.05	14.34	13.18
	64K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-20°C ~ 85°C	64-LQFP	DF71252N50FPV-ND	16.74	14.08	12.94
	128K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C	64-QFP	DF71253D50FAV-ND	18.46	15.53	14.27
	128K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-20°C ~ 85°C	64-QFP	DF71253N50FAV-ND	18.15	15.27	14.03
	128K	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-20°C ~ 85°C	64-LQFP	DF71253N50FPV-ND	18.15	15.27	14.03
	256K	16K	12-ch. 12-bit	—	I^{2}C, CAN, SCI, SSI	—/11/—	44	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	80-LQFP	DF71364AD80FPV-ND	24.88	21.15	19.60
	256K	16K	12-ch. 12-bit	—	I^{2}C, CAN, SCI, SSI	—/11/—	57	80MHz/3.0 ~ 5.5V	-40°C ~ 85°C	100-LQFP	DF71374AD80FPV-ND	25.38	21.58	19.99
	256K	16K	12-ch. 12-bit	—	I^{2}C, CAN, SCI, SSI	—/11/—	57	80MHz/3.0 ~ 5.5V	-20°C ~ 85°C	100-LQFP	DF71374AN80FPV-ND	25.38	21.58	19.99
	256K	8K	8-ch. 10-bit	—	4 USART,	WDT, MTU, CMT	82	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	112-QFP	HD64F7144F50V-ND	24.14	20.52	19.02
	256K	8K	8-ch. 10-bit	—	Smart Card, 1 I^{2}C	WDT, MTU, CMT	82	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	112-QFP	HD64F7144FW50V-ND	25.90	22.02	20.40
	256K	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I^{2}C	WDT, MTU, CMT	106	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	144-QFP	HD64F7145F50V-ND	24.88	21.15	19.60
	256K	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I^{2}C	WDT, MTU, CMT	106	50MHz/3.0 ~ 3.6V	-40°C ~ 85°C	114-LQFP	HD64F7145FW50V-ND	26.16	22.24	20.61
	256K	12K	—	—	3 USART, 1 SSU*, 1 CAN	WDT, MTU2, MTU2S, CMT	73	64MHz/3.0 ~ 3.6V	-40°C ~ 125°C	100-LQFP	DF71474AK64FPV-ND	66.13	58.35	55.44
	512K	16K	16-ch. 12-bit	—	CAN, SCI, SSU	—/8/0	57	64MHz/3.3 ~ 5.0V	-40°C ~ 125°C	100-LQFP	DF71476AK64FPV-ND	60.69	53.55	50.88
ROMless	—	16K	—	—	4 USART	—/2/—	78	125MHz/1.71 ~ 1.89V	-20°C ~ 85°C	176-LFBGA	DS76190W125BGV-ND	26.54	22.56	20.91

*SSU = SPI®

SH-2A Series

Memory Type	ROM Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
												1	25	100
Flash	512K	32K	8-ch. 12-bit	2-ch. 8-bit	4 USART, 1 I^{2}C	WDT/MTU2/MTU2S/CMT	75	160MHz/1.4 ~ 1.6V	-40°C ~ 85°C	144-LQFP	DF72115D160FPV-ND	39.72	34.36	32.21
	1MB	128K	8-ch. 12-bit	—	1 CAN, 1 Ethernet, 1 SSU, 1 I^{2}C, 1 USB	—/11/—	100	200MHz/3 ~ 3.6V	-40°C ~ 85°C	176-LQFP	R5F72167ADFA#V0-ND ***NEW!***	42.27	36.56	34.28
ROMless	—	128K	8-ch. 10-bit	2-ch. 8-bit	4 USART, IrDA, 1 I^{2}C	—/11/—	79	200MHz/1.15 ~ 1.35V	-20°C ~ 85°C	176-LQFP	DS72060W200FPV-ND	34.00	28.90	26.78
	—	32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I^{2}C, 2CAN	2/6/—	123	100MHz/3.0 ~ 3.6V	-40°C ~ 85°C	176-LQFP	DS72611RP100FPV-ND	38.76	33.52	31.43
	—	32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I^{2}C, 2CAN	2/6/—	123	120MHz/3.0 ~ 3.6V	-20°C ~ 70°C	176-LQFP	DS72613RB120FPV-ND	37.60	31.96	29.61

SH-3/SH-4/SH-4A Series

Memory Type	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
											1	25	100
ROMless	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	167MHz/1.9 ~ 3.3V	-20°C ~ 75°C	240-BGA	D6417709SBP167BV-ND◆	39.38	33.48	31.02
	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	167MHz/1.9 ~ 3.3V	-20°C ~ 75°C	208-LQFP	D6417709SF167BV-ND◆	35.76	30.40	28.17
	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	208-LQFP	D6417709SHF200BV-ND◆	38.63	33.41	31.32
	16K	6-ch. 10-bit	2-ch. 8-bit	2 USART, 1 UART, Smart Card, USB	—/1/3	104	160MHz/1.9 ~ 3.3V	-20°C ~ 75°C	240-BGA	HD6417727BP100CV-ND◆	48.47	41.92	39.30
	16K	8-ch. 10-bit	2-ch. 8-bit	1 UART, Smart Card, IrDA	—/1/3	96	133MHz/1.8 ~ 3.3V	-20°C ~ 75°C	208-LQFP	D6417729RF133BV-ND◆	35.76	30.40	28.17
	16K	8-ch. 10-bit	2-ch. 8-bit	1 UART, Smart Card, IrDA	—/1/3	96	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	208-QFP	D6417729RHF200BV-ND◆	42.44	36.71	34.41
	—	—	—	1 UART, Smart Card	—/—/5	29	240MHz/1.5 ~ 3.3V	-20°C ~ 75°C	256-BGA	D6417750RBP240DV-ND◆	52.53	46.35	44.04

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

SuperH™ Family SH-3/SH-4/SH-4A Series *(Cont.)*

Memory Type	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	—	1 UART, Smart Card	—/—/5	39	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	256-BGA	D6417751RBP200DV-ND◆	55.78	49.22	46.76
	—	4-ch. 10-bit	—	3 UART, 2 I^{2}C, Smart Card, 2 CAN, USB	—/—/3	69	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	256-BGA	D6417760BP200ADV-ND◆	56.53	49.88	47.39
	32K	—	—	I^{2}C, SCI, USB	—/2/—	86	200MHz/2.0 ~ 3.3V	-20°C ~ 70°C	256-BGA	R5S76700B200BG-ND	24.40	20.74	19.22
	16K	4-ch. 10-bit	2-ch. 8-bit	I^{2}C, SCI, SIO, SSI, USB	—/4/6	107	133MHz/1.5 ~ 3.3V	-20°C ~ 75°C	499-BGA	R5S77631Y266BGV-ND◆	59.48	52.49	49.87
	16K	—	—	I^{2}C, SSU*, Ethernet/USB	—/—/6	77	324MHz/3.3V	-20°C ~ 75°C	404-BGA	R5S77640N300BG-ND	55.68	49.13	46.67
	16K	4-ch. 10-bit	2-ch. 8-bit	I^{2}C, SCI, SIO, SSI, USB	—/4/6	107	133MHz/1.5 ~ 3.3V	-20°C ~ 75°C	256-CSP	R8A77210C133BAV-ND◆	37.19	32.16	30.15
	16K	4 ch. 10-bit	—	SCI, SSU, USB, IrDA	—/4/6	162	400MHz/3.0 ~ 3.6V	-20°C ~ 70°C	449-BGA	R8A77230C400BG#U0-ND◆	80.53	71.73	67.95
	16K	—	—	SCI, SIO, SPI, SSI	—/4/6	75	400MHz/1.25 ~ 3.3V	-20°C ~ 75°C	449-BGA	R8A77800BNBGV-ND◆	94.00	83.72	79.32

◆ ***RoHS Compliant*** *SSU = SPI®

Tools

Description	Digi-Key Part No.	Price Each
Kits — Evaluation, Development and Starter		
Reference Platform Motor Control for R8C/25	YMCRPR8C25-ND	979.50
Demo Platform H8/300H 10MHz	YH8SPB-ND	89.80
Demo Platform M16C 20MHz	YM16CSPB-ND	89.80
Development Evaluation Kit H8S/2218	3DK2218-SS-ND	850.00
Development Evaluation Kit H8/38076R	3DK38076-ND	239.00
Development Evaluation Kit H8/38086R	3DK38086R-ND	210.00
Development Evaluation Kit H8S/2215	EDK2215-ND	366.24
Development Evaluation Kit H8S/2215	EDK2215R-ND	360.00
Development Evaluation Kit H8S/2239	EDK2239-ND	327.00
Development Evaluation Kit H8S/2282	EDK2282-ND	327.00
Development Evaluation Kit H8S/2329	EDK2329-ND	285.00
Development Evaluation Kit H8S/2378	EDK2378-ND	420.00
Development Evaluation Kit H8S/2674	EDOSK2674-ND	233.75
Flash Programmer	FDM-ND	420.00
Development H8 HEW and E10A	HEWH8E10A-ND◆	1229.75
Development E10A-USB 14-pin Cable	HS0005ECU01H-ND	130.66
Development Add-On Board RSK38347	R0K0APPBDB010BE-ND	225.00
Development RSK Add-On Board Ethernet and USB	R0K0APPBDB020BE-ND	487.50
Development Evaluation Kit M16C/26A	R0K33026AS000BE-ND	225.00
Development Evaluation Kit M16C/29	R0K330290S000BE-ND◆	225.00
Development Evaluation Kit M16C/6NK	R0K3306NKS001BE-ND	225.00
Starter Kit for H8S/2215R	R0K42215RS001BE-ND◆	585.00
Development Evaluation Kit H8/38099	R0K438099S000BE-ND	225.00
Development Evaluation Kit H8/38347	R0K438347S000BE-ND	225.00
Development Evaluation Kit R8C/1B	R0K5211B4S000BE-ND	225.00
Development Evaluation Kit R8C/25	R0K521256S000BE-ND	225.00
Starter Kit H8S/2472	R0K52472VS000BE-ND◆	712.50
Development Evaluation Kit H8SX/1582F	R0K561582S000BE-ND	225.00
Starter Kit H8SX/1622	R0K561622S000BE-ND◆	585.00
Development Evaluation Kit H8S/1664F	R0K561664S000BE-ND	225.00
Development Evaluation Kit SH7086	R0K570865S000BE-ND	300.00
Development Evaluation Kit SH7124	R0K571242S000BE-ND	225.00
Starter Kit for SH7124	R0K571242S001BE-ND	585.00
Development Evaluation Kit SH7203	R0K572030S000BE-ND	1332.00
Starter Kit for SH7286	R0K572867S000BE-ND◆	585.00
Development Evaluation Kit CAN R8C/23	RCDK8C-ND	525.00
Development Evaluation Kit ZigBee 2.46Hz	RZB-CC28FC-BRD-ND◆	239.06
Development Evaluation Kit H8/38024	SKP38024-ND	113.05
Development Evaluation Kit H8/38602R	SKP38602-ND	113.05
Development Evaluation Kit R8C/SPB	YR8CSPB-ND◆	89.80
Starter Kit M32C/87	R0K330879S001BE-ND	225.00
Development Programmable Board, 3823 Group	R0K303823A000BR-ND	300.00
Evaluation Kit for SH7216	R0K572167S000BE-ND◆ ***NEW!***	810.00
Development Board for SH7216	YRDKSH7216-ND◆ ***NEW!***	211.44
Evaluation Kit for SH7264	YR0K572643S000BE-L-ND◆ ***NEW!***	1300.50
Starter Kit H8S/2456	YLCDRSK2456S-ND◆ ***NEW!***	825.00

Description	Digi-Key Part No.	Price Each
NEW! Software — RoHS Compliant NEW!		
C Compiler H8 1 User	YRTA-HEWH8-1U-ND	1230.00
C Compiler H8 1 User LAN	YRTA-HEWH8-1UL-ND	1565.22
C Compiler 1 User	YRTA-HEWNC-1U-ND	1230.00
C Compiler 1 User LAN	YRTA-HEWNC-1UL-ND	1565.22
C Compiler SH 1 User	YRTA-HEWSH-1U-ND	2430.00
C Compiler SH 1 User LAN	YRTA-HEWSH-1UL-ND	2608.69
Emulators		
Development Emulator Base Unit H8S/2100	E62140-ND	7812.00
Development Emulator Base Unit H8S/2300	E62339-ND	7923.60
Development Emulator Base Unit H8S/2633	E62633R-ND	8424.00
Development Emulator Base Unit H8S/2678	E62678R-ND	9039.60
Development Emulator Base Unit H8/3064	E63064B-ND	8704.80
Development Emulator Base Unit H8/300L	E63800-ND	6978.24
On Chip Debug Emulator	HS0005KCU01H-ND	1225.00
On Chip Debug Emulator with Trace	HS0005KCU02H-ND	1944.00
On Chip Debug Emulator E10A Lite	HS0005KCU11H-ND	750.00
Emulator Base Unit H8S/2168	HS2168EPI61H-ND	7488.00
Compact Emulator for M16C/26A/28/29	M30290T2-CPE-ND◆	1296.00
Compact Emulator for M16C/Tiny	M30290T2-CPE-HP-ND	1567.91
Compact Emulator for M16C/26A/28/29	M3062PT3-CPE-3-ND◆	1488.00
Emulator Base Unit M16C/60	M3062PT3-RPD-E-ND	3408.00
Compact Emulator for M16C/62P	R0KZ1SNY003001R-ND	3241.92
Emulator Personality Kit R8C/13	R0E521000EPB00-ND	1012.50
Emulator Base E8A for H8 and M16C	R0E00008AKCE00-ND◆	156.25
Emulator Personality Kit R8C/13	R0E521134CPE00-ND	1548.00
Emulator Personality Kit R8C/10-13	R0E521134EPB00-ND	1380.00
Emulator Personality Kit R8C/17	R0E521174CPE00-ND	1548.00
Emulator for R8C/18/19/1A/1B	R0E521174CPE10-ND◆	1440.00
Emulator Personality Kit R8C/20-23	R0E521237CPE00-ND◆	1548.00
On Chip Debug Emulator	RTA-FOUSB-MON-ND	60.86
Accessories		
Development Emulator Accessory	E6EIOEXT-ND	330.00
Emulator PCB Adapter 128-QFP	EHB2328Q128-ND	771.00
Emulator PCB Adapter 128-QFP	EHB2633Q128-ND	1056.00
Emulator PCB Adaptor 100-QFP	EHB3064BQ100B-ND	465.00
Emulator PCB Adaptor 120-TQFP	HS1650ECN61H-ND	1095.00
Personality Kit H8SX/1650	HS1650EPH60H-ND	8544.00
Emulator PCB Adapter 100-QFP	HS2148ECH61HE-ND	1428.42
Emulator PCB Adapter 64-QFP	HS2212ECH61H-ND	2628.00
Emulator PCB Adapter 112-LFBGA	HS2215ECB62H-ND	2696.69
Emulator PCB Adapter 120-TQFP	HS2215ECN61H-ND	2491.20
Emulator PCB Adapter 120 TQFP	HS2215RECN61H-ND◆	2496.00
Emulator PCB Adapter 100-QFP	HS2218ECN61H-ND	2496.00
Emulator PCB Adapter 112-LFBGA	HS2238RECB62H-ND	1944.00
Emulator PCB Adapter 144-QFP	HS2338ECH61H-ND	1296.00
Emulator PCB Adapter 144-QFP	HS2378ECH61H-ND	1644.00
Emulator Personality Kit H8S/2633	HS2633ECH61HE-ND	1288.80
Emulator Personality Kit M16C/28	M30291T-EPB-HP-ND	1227.00
Emulator Personality Kit M16C/62P	M3062PT-EPB-ND	1359.00
Emulator PCB Adapter 100-LQFP	M3T-F160-100NSD-ND	400.00
Emulator PCB Adapter 128-LQFP	M3T-F160-128NRD-ND	475.00

◆ ***RoHS Compliant***

BNS Solutions

QSK62P Plus

The QSK62P Plus Quick Start Kit (QSK) is a low-cost development environment for evaluating the M16C/60 series of microcontrollers (MCU) and Renesas software development tools. The QSK62P Plus uses the M30620FC MCU, which belongs to the M16C/60P group of the M16C/60 series. The M30620FC MCU has all of the on-chip peripheral functions of the M16C/30P group MCUs (plus some more), so it can be considered a "superset" suitable for evaluating the M16C/30P group as well. The kits come with a complete software development tool chain for Renesas MCUs, including the NC30WA C-compiler, assembler and linker; a "stripped down" E8 Emulator; and the High-performance Embedded Workshop (HEW), which consists of Integrated Development Environment (IDE), Graphical User Interface (GUI) and Software Debugger.

The QSK62P Plus boards feature on-board in-circuit debugging and programming support (ICD), eliminating the need for an external ICD unit. All that is required for in-circuit debugging and programming with the QSK62P Plus is a USB connection to a PC running the included development tool software.

867-1000-ND (QSK-62P PLUS) **$69.97**

Energy Measurement

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
6-Channel Delta/Sigma ADC, 28-SSOP	598-1093-5-ND	8.61	7.66	CS5451A-ISZ
Single Phase Bi-Directional Power/Energy IC, 24-SSOP	598-1094-5-ND	4.76	3.83	CS5460A-BSZ
Single Phase Bi-Directional Power/Energy IC, 24-SSOP	598-1701-ND	5.07	4.23	CS5460F-ISZ
Single Phase Bi-Directional Power/Energy IC, 24-SSOP	598-1095-5-ND	4.77	3.98	CS5461A-ISZ
Single Phase Bi-Directional Power/Energy IC, 24-SSOP	598-1096-5-ND	3.75	3.02	CS5463-ISZ
Single Phase Power/Energy IC, 3-Channel, 28-SSOP	598-1194-5-ND	4.31	3.47	CS5464-ISZ
LC Power/Energy IC with Pulse Output, 2-Ch., 24-TSSOP	598-1097-5-ND	4.59	3.83	CS5466-ISZ
Single Phase Power/Energy IC, 4-Channel, 28-SSOP	598-1197-5-ND	6.15	5.13	CS5467-ISZ

CDB5461AU Evaluation Board

This is an inexpensive tool designed to evaluate the functionality and performance of the CS5461A. The evaluation board includes an LT1019 voltage reference, a C8051F320 microcontroller with a USB interface, and firmware. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5461A's registers and functions.

598-1552-ND (CDB5461AU) **$206.25**

CDB5463U Evaluation Board

This is an inexpensive tool designed to evaluate the functionality and performance of the CS5463 analog to digital converter. The evaluation board includes an LT1019 voltage reference, a C8051F320 microcontroller with a USB interface, and firmware. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5463's registers and functions. The CDB5463U includes software for data capture, time domain analysis, histogram analysis, and frequency domain analysis.

598-1553-ND (CDB5463U) **$206.25**

CDB5464U Evaluation Board

This is an inexpensive tool designed to evaluate the functionality and performance of the CS5464 analog to digital converter. The evaluation board includes an LT1019 voltage reference, a C8051F320 microcontroller with a USB interface, and firmware. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5464's registers and functions. The CDB5464U includes software for data capture, time domain analysis, histogram analysis, and frequency domain analysis.

598-1554-ND (CDB5464U) **$206.25**

CDB5466U Evaluation Board

The CS5466 is a low cost power/energy IC with pulse output for power measurement solutions. The CDB5466U evaluation board is an inexpensive tool designed to evaluate the functionality and performance of the CS5466. The evaluation board includes a microcontroller with USB interface. The microcontroller and GUI (Graphical User Interface) provide a means to quickly register and evaluate the CS5466's energy-to pulse outputs.

598-1011-ND (CDB5466U) **$206.25**

CDB5467U Evaluation Board

This is an inexpensive tool designed to evaluate the functionality and performance of the CS5467 analog to digital converter. The evaluation board includes an LT1019 voltage reference, a C8051F320 microcontroller with a USB interface, and firmware. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5467's registers and functions. The CDB5467U includes software for data capture, time domain analysis, histogram analysis, and frequency domain analysis.

598-1555-ND (CDB5467U) **$206.25**

CODEC

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
AC97 CODEC				
AC '97 with Headphone Amp, S/PDIF Transmitter, 20-Bit DAC, 18-Bit ADC, 48-LQFP	598-1181-ND	9.02	8.02	CS4202-JQZ
AC '97 for Portable Computing, Sample-Rate Converter, 20-Bit Stereo DAC, 18-Bit Stereo ADC, 48-LQFP	598-1182-ND	11.29	10.04	CS4205-KQZ
AC '97 2.1 Compatible Stereo Audio, 48-TQFP	598-1044-ND	7.61	6.77	CS4299-JQZ
Multi-Channel CODEC				
102dB, 2-Ch. AD, 105dB 6-Ch. DA Surround 24-Bit, 192kHz, 48-LQFP	598-1027-ND	9.50	8.45	CS42406-CQZ
110dB 2-Ch. AD, 114dB 8-Ch. DA Surround 24-Bit, 192kHz, 64-LQFP, 6-Ch. with PLL	598-1029-ND	9.98	8.18	CS42418-CQZ
114dB 2-Ch. AD, 110dB 6-Ch. DA 24-Bit, 192kHz, 64-LQFP with PLL	598-1028-ND	7.80	6.40	CS42416-CQZ
114dB 2-Ch. AD, 114dB 8-Ch. DA Surround 24-Bit, 192kHz, 64-LQFP with PLL	598-1031-ND	12.35	10.13	CS42428-CQZ
105dB, 6-Ch. AD, 108dB 6-Ch. DA, 192kHz, 52-MQFP, TDM, I2C/SPI	598-1612-ND	11.00	9.25	CS42436-CMZ
105dB, 6-Ch. AD, 108dB 6-Ch. DA, 192kHz, 52-MQFP, TDM, I2C/SPI	598-1613-ND	13.20	11.10	CS42436-DMZ
105dB 6-Ch. AD, 108dB 8-Ch. DA, 192kHz, 52-MQFP, TDM	598-1032-ND	11.97	10.07	CS42438-CMZ
105dB 6-Ch. AD, 108dB 8-Ch. DA, 192kHz, 52-MQFP, TDM	598-1614-ND	14.37	12.09	CS42438-DMZ
105dB 6-Ch. AD, 108dB 8-Ch. DA, 192kHz, 64-LQFP with Input MUX	598-1033-ND	11.48	9.66	CS42448-CQZ
105dB 6-Ch. AD, 108dB 8-Ch. DA, 192kHz, 64-LQFP with Input MUX	598-1615-ND	13.79	11.60	CS42448-DQZ
114dB 2-Ch. AD, 110dB 6-Ch. DA Surround 24- Bit, 192kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1035-ND	8.23	6.75	CS42516-CQZ
114dB 2-Ch. AD, 110dB 8-Ch. DA Surround 24-Bit, 192kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1036-ND	10.53	8.64	CS42518-CQZ
114dB 2-Ch. AD, 114dB 6-Ch. AD Surround 24-Bit, 192kHz, 64-LQFP with S/PDIF Rx	598-1037-ND	10.70	8.78	CS42526-CQZ
114dB 2-Ch. AD, 114dB 8-Ch. DA Surround 24-Bit, 192kHz, 64-LQFP with S/PDIF Rx	598-1038-ND	11.48	9.66	CS42528-CQZ
105dB 4-Ch. AD, 108dB 8-Ch. DA 24-Bit, 192kHz, 64-LQFP, TDM	598-1625-ND	12.23	10.29	CS42888-DQZ
Stereo Audio CODEC				
Low Power, 32-QFN, with Headphone Amp	598-1627-ND	7.61	6.77	CS42L51-DNZ
Low Power, 32-QFP, with Headphone Amp	598-1045-ND	6.78	5.65	CS42L51-CNZ
Low Power, 40-QFN, with Headphone and Speaker Amp	598-1628-ND	7.08	5.90	CS42L52-CNZ
Ultra Low Power, 36-QFN with Class H Headphone Amp	598-1629-ND	7.32	6.10	CS42L55-CNZ
91/94dB, 3V ~ 5.25V, 2/1 ADCs/DACs, 64-WLCSP	598-1802-1-ND‡✔ 598-1802-2-ND†✔	7.38 22125.00/6,000	6.64	CS42L73-CWZR CS42L73-CWZR
104dB, 24-Bit, 192kHz, 48-LQFP	598-1034-ND	6.75	5.54	CS4245-CQZ
104dB, 24-Bit, 192kHz, 48-LQFP	598-1616-ND	8.13	6.67	CS4245-DQZ
105dB, 24-Bit, 192kHz, 32-QFN with S/PDIF Tx	598-1039-ND	6.50	5.33	CS4265-CNZ
105dB, 24-Bit, 192kHz, 24-TSSOP with 3.3V Operation	598-1040-5-ND	5.54	4.46	CS4270-CZZ
105dB, 24-Bit, 192kHz, 24-TSSOP with 3.3V Operation	598-1622-ND	7.18	6.39	CS4270-DZZ
108dB AD, 114dB DA, 24-Bit, 192kHz, 28-TSSOP with Oscillator	598-1041-5-ND	8.68	7.12	CS4271-CZZ
114dB, 24-Bit, 192kHz, 28-TSSOP with Oscillator	598-1042-5-ND	9.10	7.47	CS4272-CZZ
100dB, 24-Bit, 10-in, 6-out, 2Vrms 48-LQFP	598-1602-ND	9.10	8.09	CS42324-CQZ
Audio SOC Processor				
Audio DSP, 32-Bit, 2-Ch. ADC In/8-Ch. DAC out for car audio, sound bar, DVD receiver, 100-LQFP	598-1656-ND	25.47	21.51	CS47028C-CQZ
Audio DSP, 32-Bit, 4-Ch. ADC In/8-Ch. DAC out for car audio, high-end digital TV, 100-LQFP	598-1657-ND	28.42	24.00	CS47048C-CQZ
Audio DSP, 32-Bit, 2-Ch. ADC In/4-Ch. DAC out for car audio, digital TV, portable audio docking station, portable DVD, DVD mini/receiver, multimedia PC speakers, 100-LQFP	598-1791-ND	23.83	20.13	CS47024C-CQZ

‡ Cut Tape † Tape and Reel ✔ ***NEW!***

CDB4265 Evaluation Board

The CDB4265 evaluation board is an excellent means for evaluating the CS4265 CODEC. System timing for I^{2}S, Left-Justified and Right-Justified interface formats can be provided by the CS4265, the CS8416, or by a PCM I/O stake header with an external source connected. RCA phono jacks are provided for the CS4265 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS4265. The Windows® software provides a GUI to make configuration of the CDB4265 easy. The software communicates through the PC's serial port to configure the control port registers so that all features of the CS4265 can be evaluated. The board may also be configured to accept external timing and data signals for operation in a user application during system development. **Features:** • Coaxial and Optical Connections for CS4265 S/PDIF Transmitter Output • CS8416 S/PDIF Digital Audio Receiver • Header for external PCM serial audio I/O • 3.3 V Logic Interface • Pre-defined Software Scripts • Windows Compatible Software Interface

598-1001-ND (CDB4265) **$540.00**

CDB4271 Evaluation Board

This is an excellent means for evaluating the CS4271 stereo CODEC. Evaluation requires an analog/digital signal source, and analyzer, and power supplies. Windows® PC compatible computer may be used to evaluate the CS4271 in control port mode. System timing can be provided by the CS4271, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. RCA phono jacks are provided for the CS4271 analog outputs and inputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406. Microsoft Windows® software provided a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so all features can be evaluated. **Features:** • Single-ended inputs • CS8406 S/PDIF digital audio transmitter • CS8416 S/PDIF digital audio receiver • Header for optional external configuration of CS4271 • Header for external DSP serial audio I/O • 3.3V ~ 5.0V Logic Interface

598-1003-ND (CDB4271) **$405.00**

CDB42324 Evaluation Board

This evaluation board is an excellent means for evaluating the CS42324 CODEC. Evaluation requires an analog signal source/analyzer and power supplies. A Windows® PC compatible computer must be used to evaluate the CS42324. RCA phono jacks are provided for the CS42324 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406.

598-1498-ND (CDB42324) **$786.25**

CDB42428 Evaluation Board

This demonstration board is an excellent means for evaluating the CS424xx family of highly integrated multi-channel CODECs. Evaluation requires an analog/digital signal source and analyzer, Windows® compatible computer, and power supplies. RCA phono jacks are provided for the CS5361 analog inputs and CS424xx analog inputs and outputs. Digital data I/O is available via RCA phono jacks or optical connectors to the CS8416 and from the CS8406.

598-1499-ND (CDB42428) **$472.50**

CDB42438 Evaluation Board

This evaluation board is an excellent means for evaluating the CS42438 CODEC. Evaluation requires an analog/digital signal source/analyzer, and power supplies. Optionally, a Windows® PC compatible computer may be used to evaluate the CS42438 in software mode. RCA phono jacks are provided for the CS42438 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406. 6 pre-defined board setup options are selectable using a 6-position DIP switch.

598-1500-ND (CDB42438) **$540.00**

CDB4245 Evaluation Board

This evaluation board is an excellent means for evaluating the CS4245 CODEC. Evaluation requires an analog/digital signal source/analyzer, and power supplies. A Windows® PC compatible computer must be used to evaluate the CS4245. RCA phono jacks are provided for the CS4245 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406.

598-1501-ND (CDB4245) **$540.00**

CDB42518 Evaluation Board

This demonstration board is an excellent means for evaluating the CS42518/16 family of highly integrated multi-channel CODEC-S/PDIF receivers. Evaluation requires an analog/digital signal source and analyzer, a Windows® compatible computer, and power supplies. RCA phono jacks are provided for the CS5361 analog inputs and CS42518 analog inputs and outputs. Digital data I/O is available via RCA phono jacks or optical connectors to/from the CS42518 and CS8406.

598-1502-ND (CDB42518) **$405.00**

CDB42528 Evaluation Board

This demonstration board is an excellent means for evaluating the CS42528/26 family of highly integrated multi-channel CODEC-S/PDIF receivers. Evaluation requires an analog/digital signal source and analyzer, a Windows® compatible computer, and power supplies. RCA phono jacks are provided for the CS5361 analog inputs and CS42528 analog inputs and outputs. Digital data I/O is available via RCA phono jacks or optical connectors to/from the CS42528 and CS8406.

598-1503-ND (CDB42528) **$405.00**

CDB42L52 Evaluation Board

Using this evaluation board is an ideal way to evaluate the CS42L52 CODEC. Use of the board requires an analog/digital signal source, an analyzer and power supplies. A Windows® PC compatible computer is also needed in order to configure the CS42L52 and the board functionality. 1/8th inch audio jacks are provided for the CS42L52 analog inputs and HP/Line outputs. Speaker driver outputs are via Banana jacks. Digital data I/O connections are via RCA phono or optical connectors to the CS8416 and CS8406 (S/PDIF Rx and Tx).

598-1505-ND (CDB42L52) **$668.75**

(Continued)

CRD42L52 Reference Design and Peripheral Driver Board

In addition to providing a reference for an ultra small layout design, the purpose of the CRD42L52 is to allow a quick and easy evaluation of the CS42L52 low power stereo CODEC. Two 1/8th inch stereo jacks provide an interface for analog line-level input and headphone-level output connections to the CS42L52. Stereo differential PWM speaker outputs from the C42L52 can be monitored on a pair of screw terminals. The control port and serial audio interfaces are accessible via the I/O stake header used to attach the CRD42L52 to the CDB42LDB1.

598-1580-ND	(CRD42L52)	**$395.00**

CDB42L55 Evaluation Board

This is the ideal evaluation platform solution to test and evaluate the CS42L55. Use of the board requires an analog or digital signal source, an analyzer, power supplies, and a Windows® PC compatible computer. RCA connectors are provided for CS42L55 analog inputs and HP/Line outputs. A 1/8th inch audio jack is provided for headphone stereo out. Digital I/O connections are available via RCA phono or optical connectors to the CS8416 and CS8406 (S/PDIF Rx and Tx).

598-1506-ND	(CDB42L55)	**$562.50**

CDB42L56 Evaluation Board

The CDB42L56 Evaluation Board is 24-bit, Ultra Low Power Stereo CODEC with Class H Headphone Amp.

598-1507-ND	(CDB42L56)	**$160.00**

NEW! CDB42L73 Evaluation Board

The CDB42L73 board is a dedicated platform for testing and evaluating the CS42L73, an ultralow power mobile audio and telephony CODEC. To allow comprehensive testing of CS42L73 features and performance, extensive hardware and software configurable options are available on the CDB42L73.

598-1807-ND	(CDB42L73)	**$1206.25**

CDB42LDB1 Peripheral Driver Board

The CDB42LDB1 is a peripheral driver board provides clock/data, control logic and power supply to CRD42Lxx. Digital data is transmitted and received via S/PDIF optical and RCA connectors. The CRD42Lxx can be programmed by using the Windows® compatible FlexGUI software provided. Power is derived from three AAA batteries or from an external supply on the CDB42LDB1 driver board and is routed to the CRD42Lxx via the I/O stake header.

598-1508-ND	(CDB42LDB1)	**$240.00**

CDB42448 Evaluation Board

This evaluation board is an excellent means for evaluating the CS42448 CODEC. Evaluation requires an analog/digital signal source/analyzer, and power supplies. A Windows® PC compatible computer must be used to evaluate the CS42448. RCA phono jacks are provided for the CS42448 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406.

598-1151-ND	(CDB42448)	**$540.00**

CDB4270 Evaluation Board

Using the CDB4270 is an excellent way to evaluate the CS4270 CODEC. Other equipment required includes analog/digital audio sources/analyzer, a 5V power supply and a Windows® compatible PC for the GUI. RCA jacks are provided for the analog audio inputs and outputs. Digital S/PDIF transmit or receive data I/O is available via either RCA jacks or optical connectors.

598-1002-ND	(CDB4270)	**$405.00**

CDB470XX Evaluation Boards

The CS470xx family is a new generation of audio system-on-chip (ASOC) processors targeted at high fidelity, cost sensitive designs. Derived from the highly successful family, the CS470xx further simplifies system design and reduces total system cost by integrating the S/PDIF Rx, S/PDIF Tx, analog inputs, analog outputs, and SCRs. **Applications:** • Automotive head units and outboard amplifiers • Automotive Processors and Automotive Integration Hubs • Digital TV • MP3 Docking Stations • AVR and DVD RX • DSP Controlled Speakers

598-1534-ND	(CDB470XD-DC24) – 2-Channel ADC, 4-Channel DAC	**$437.50**
598-1535-ND	(CDB470XD-DC28) – 2-Channel ADC, 8-Channel DAC	**$437.50**
598-1536-ND	(CDB470XD-DC48) – 4-Channel ADC, 8-Channel DAC	**$437.50**
598-1537-ND	(CDB470XS-DC24) – 2-Channel ADC, 4-Channel DAC	**$437.50**
598-1538-ND	(CDB470XS-DC28) – 2-Channel ADC, 8-Channel DAC	**$437.50**
598-1539-ND	(CDB470XS-DC48) – 4-Channel ADC, 8-Channel DAC	**$437.50**

Analog-to-Digital Converters

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Audio Analog to Digital Converters				
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 101dB dynamic range, sample rates to 200kHz, 16-TSSOP	598-1081-5-ND	7.50	6.15	CS5340-CZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 101dB dynamic range, sample rates to 200kHz, 16-TSSOP	598-1686-ND	9.00	7.38	CS5340-DZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 105dB dynamic range, sample rates to 200kHz, 16-TSSOP	598-1082-5-ND	9.23	7.57	CS5341-CZZ
Multi-bit Delta-Sigma, 24-bit conversion, 105dB dynamic range, sample rates to 200kHz, 16-TSSOP	598-1688-ND	9.23	7.57	CS5342-CZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 108dB dynamic range, sample rates to 204kHz, 24-TSSOP	598-1693-ND	13.73	12.36	CS5351-DZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 108dB dynamic range, sample rates to 204kHz, 24-TSSOP	598-1085-5-ND	12.37	11.00	CS5351-KZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 204kHz, 24-TSSOP	598-1695-ND	14.63	12.31	CS5361-DZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 204kHz, 24-SOIC	598-1086-5-ND	13.85	12.47	CS5361-KSZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 204kHz, 24-TSSOP	598-1087-5-ND	13.85	12.47	CS5361-KZZ
4-ch., multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216kHz, I^2C®/SPI™ control, 48-LQFP	598-1088-ND	12.67	10.66	CS5364-CQZ
4-ch., multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216kHz, I^2C®/SPI™ control, 48-LQFP	598-1697-ND	15.20	12.79	CS5364-DQZ
6-ch., multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216kHz, I^2C®/SPI™ control, 48-LQFP	598-1089-ND	18.63	15.67	CS5366-CQZ
6-ch., multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216kHz, I^2C®/SPI™ control, 48-LQFP	598-1698-ND	20.32	17.28	CS5366-DQZ
8-ch., multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216kHz, I^2C®/SPI™ control, 48-LQFP	598-1090-ND	22.10	18.79	CS5368-CQZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 120dB dynamic range, sample rates to 192kHz, 24-SOIC	598-1091-5-ND	32.22	27.21	CS5381-KSZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 120dB dynamic range, sample rates to 192kHz, 24-TSSOP	598-1092-5-ND	32.22	27.21	CS5381-KZZ
2-ch., multi-bit Delta-Sigma, 24-bit conversion, 98dB dynamic range, sample rates to 108kHz, I2C control, 10-TSSOP	598-1189-ND	4.20	3.38	CS5343-CZZ
2-ch., multi-bit Delta-Sigma, 24-bit conversion, 98dB dynamic range, sample rates to 108kHz, I2C control, 10-TSSOP	598-1689-ND	6.66	5.55	CS5343-DZZ
Multi-bit Delta-Sigma, 24-bit conversion, 98dB dynamic range, sample rates to 108kHz, 10-TSSOP	598-1190-ND	4.20	3.38	CS5344-CZZ
Multi-bit Delta-Sigma, 24-bit conversion, 104dB dynamic range, sample rates to 200kHz, 48-LQFP	598-1083-ND	8.48	7.54	CS5345-CQZ
Multi-bit Delta-Sigma, 24-bit conversion, 104dB dynamic range, sample rates to 200kHz, 48-LQFP	598-1691-ND	10.18	9.05	CS5345-DQZ
Multi-bit Delta-Sigma, 24-bit conversion, 103dB dynamic range, sample rates to 200kHz, 48-LQFP	598-1692-ND	5.60	4.50	CS5346-CQZ
98dB, 96kHz, Stereo AD, 24-Bit, Low Power, 32-QFN	598-1191-ND	6.42	5.35	CS53L21-CNZ
Industrial Analog to Digital Converters				
16-bit, 100Sps update rate, very low power consumption, single channel differential input, flexible serial output port, 20-SOIC	598-1098-5-ND	25.31	21.38	CS5507-ASZ
20-bit, 100Sps update rate, very low power consumption, single channel differential input, flexible serial output port, 20-SOIC	598-1099-5-ND	27.50	23.22	CS5508-BSZ
16-bit Delta-Sigma, differential input, up to 200Sps output word rate, ultra low power consumption, 16-SOIC	598-1100-5-ND	19.83	17.85	CS5509-ASZ
16-bit Delta-Sigma, differential input up to 326Sps output word rate, low power consumption, 8-SOIC	598-1705-ND	7.44	6.20	CS5511-ASZ
20-bit Delta-Sigma, differential input up to 326Sps output word rate, low power consumption, 8-SOIC	598-1707-ND	6.41	5.16	CS5513-BSZ
16-bit Delta-Sigma, 2-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 20-SSOP	598-1103-5-ND	9.07	8.07	CS5521-ASZ
24-bit Delta-Sigma, 2-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 20-SSOP	598-1104-5-ND	10.75	9.56	CS5522-ASZ
16-bit Delta-Sigma, 4-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 24-SSOP	598-1105-5-ND	7.50	6.15	CS5523-ASZ
24-bit Delta-Sigma, 4-channel, scalable input span, three-wire serial interface port, eight selectable word rates upto 617Sps, single 5V supply, 24-SSOP	598-1106-5-ND	11.21	9.96	CS5524-ASZ
16-bit Delta-Sigma, single channel, multi-range, 4-bit output latch, three-wire serial interface, programmable output word rates, single +5V supply, 20-SSOP	598-1107-5-ND	8.59	7.64	CS5525-ASZ
20-bit Delta-Sigma, single channel, multi-range, 4-bit output latch, three-wire serial interface, programmable output word rates, single +5V supply, 20-SSOP	598-1108-5-ND	10.26	9.12	CS5526-BSZ
24-bit Delta-Sigma, 8-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 24-SSOP	598-1109-5-ND	11.72	10.42	CS5528-ASZ
16-bit Delta-Sigma, single channel, eight digital filters, 6-bit output latch, three-wire serial interface port, single conversion settling time, single or dual supplies, 20-SSOP	598-1110-5-ND	8.86	7.88	CS5529-ASZ
24-bit Delta-Sigma, single channel, digital gain scaling up to 40X, three-wire serial interface port, selectable word rates, high dynamic range, 20-SSOP	598-1283-5-ND	6.63	5.44	CS-5530-ISZ
16-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1111-5-ND	12.91	11.48	CS5531-ASZ
24-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1112-5-ND	13.95	12.56	CS5532-ASZ
24-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1113-5-ND	14.78	12.44	CS5532-BSZ
16-bit Delta-Sigma, 4-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1114-5-ND	13.31	11.84	CS5533-ASZ
24-bit Delta-Sigma, 4-ch. diff. multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1115-5-ND	14.55	13.10	CS5534-ASZ
24-bit Delta-Sigma, 4-ch. diff. multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1116-5-ND	19.25	17.33	CS5534-BSZ
24-bit Delta-Sigma, 2-ch. diff. multiplexer, fixed digital filter, simple serial interface, single +3.0V supply, 16-SSOP	598-1117-5-ND	9.94	8.84	CS5540-ASZ
2-Channel, low-cost A/D Converter for Electronic Weight-Scale Applications, 24-SSOP	598-1119-5-ND	4.54	3.65	CS5550-ISZ
24-bit Delta-Sigma, differential analog input, high throughput, 20uS conversion time, 110dB signal to noise, 24-SSOP	598-1265-5-ND	18.18	16.36	CS5560-ISZ
24-bit Delta-Sigma, single-channel, differential analog input, 200uS conversion time, three-wire serial interface, 24-SSOP	598-1269-5-ND	13.95	12.56	CS5566-ISZ
16-bit Delta-Sigma, single-channel, single-ended analog input, 10uS conversion time, 3 or 4-wire serial interface, 24-SSOP	598-1266-5-ND	22.13	19.92	CS5571-ISZ
16-bit Delta-Sigma, single-channel, single-ended analog, input analog input, 5uS conversion time, 3 or 4-wire serial interface, 24-SSOP	598-1272-5-ND	14.95	13.46	CS5581-ISZ

CDB5381 Evaluation Board

The CDB5381 evaluation board is an excellent means for quickly evaluating the CS5381 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors. **Features:** • Demonstrates recommended layout and grounding arrangements • CS8406 generates S/PDIF and EIAJ-340 compatible digital audio

598-1008-ND	(CDB5381)	**$405.00**

CDB5529 Evaluation Board and Software

The CDB5529 is a tool designed to evaluate the performance of the CS5529 16-bit Analog-to-Digital Converter (ADC). The board includes an LT1019 voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC visa the firmware, enabling quick and easy access to all of the CS5529's registers. The CDB5529 also includes software for Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis. **Features:** • RS-232 Serial Communication with PC • On-Board 80C51 Microcontroller • On-Board Voltage Reference • Lab Windows/CVI™ Evaluation Software • Integrated RS-232 Test Mode

598-1015-ND	(CDB5529)	**$525.94**

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

CIRRUS LOGIC® Analog-to-Digital Converters *(Cont.)*

CDB5571 and CDK5571 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5571 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5571 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus™ II data acquisition system available from Cirrus Logic. The CS5571 delta-sigma ADC produces fully settled conversions to full specified accuracy at 100kSps. This ability to produce fully settled conversions for every sample makes it suitable for converting multiplexed input signals. To help evaluate this feature, includes two single-ended analog inputs multiplexed into the CS5571. The multiplexer can be switched at the CS5571 ADC sample speed and the ADC will produce fully settled conversion data for each input channel. All evaluation board functionality for evaluating the CS5571 ADC is accessed through the connector interface and board-level options.

598-1275-ND	(CDB5571)	**$101.71**
598-1279-ND	(CDK5571) – CDB5571 with CapturePlus II System	**$458.29**

CDB5560 and CDK5560 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5560 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5560 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus II data acquisition system available from Cirrus Logic. The CS5560 delta-sigma ADC produces fully settled conversions to full specified accuracy at 50kSps. All evaluation board functionality for evaluating the CS5560 ADC is accessed through the connector interface and board-level options.

598-1277-ND	(CDK5560) – CDB5560 with CapturePlus II System	**$458.29**

CDB5368 Evaluation Board

An excellent means for quickly evaluating the CS5368 24-bit, 192kHz audio A/D converter. Evaluation requires only a digital signal analyzer, an analog signal source and a power supply. On-board DIP switches configure the CS5368 in Stand-Alone mode, avoiding the need for a PC. For Software-based device configuration, the Control Port mode is used by attaching a host PC to the Evaluation Board and executing the provided FlexGUI software.

598-1157-ND	(CDB5368)	**$472.50**

CDB5340 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5340 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF, and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

598-1544-ND	(CDB5340)	**$405.00**

CDB5341 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5341 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF, and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

598-1545-ND	(CDB5341)	**$405.00**

CDB5343 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5343 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter that generates S/PDIF and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

598-1156-ND	(CDB5343)	**$405.00**

CDB5345 Evaluation Board

This evaluation board is an excellent means for evaluating the CS5345 ADC. Evaluation requires an analog signal source and analog/digital analyzer, and power supplies. A Windows® PC compatible computer must be used to evaluate the CS5345. RCA phono jacks are provided for the CS5345 analog inputs and outputs. Digital data input is available via RCA phono or optical connectors to the CS8406.

598-1780-ND	(CDB5345)	**$405.00**

CDB5346 Evaluation Board

This evaluation board is an excellent means for evaluating the CS5346 A/D converter. Evaluation requires an analog signal source and analog/digital analyzer, and power supplies. A Windows compatible PC must be used to evaluate the CS5346. RCA phono jacks are provided for the CS5346 analog inputs and outputs. Digital data input is available via RCA phono or optical connectors to the CS8406.

598-1790-ND	(CDB5346)	**$405.00**

CDB5351 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5351 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF, and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

598-1781-ND	(CDB5351)	**$405.00**

CDB5361 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5361 24-bit, stereo audio A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF, and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

598-1547-ND	(CDB5361)	**$472.50**

CDB5366 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS5366 24-bit, 192kHz A/D converter. Evaluation requires only a digital signal analyzer, an analog signal source, and a power supply. On-board DIP switches configure the CS5366 in Stand-Alone mode, avoiding the need for a PC. For software-based device configuration, the Control Port mode is used by attaching a host PC to the evaluation board and executing the provided FlexGUI software.

598-1549-ND	(CDB5366)	**$472.50**

CDB53L21 Evaluation Board

This evaluation board is an excellent means for evaluating the CS53L21 A/D converter. Evaluation requires an analog audio source, an analog/digital analyzer and power supplies. Optionally, a Windows® PC compatible computer may be used to evaluate the CS53L21 in Software-Mode. RCA phono jacks are provided for the CS53L21 analog inputs. 1/8th inch jacks are also available for microphone inputs. A digital data output is available from the CS8406 via RCA phono or optical connectors.

598-1550-ND	(CDB53L21)	**$421.25**

CDB5566 Evaluation Board

This is a versatile tool designed for evaluating the functionality and performance of the CS5566 A/D converter. The SPI serial port on the CDB5566 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus™ II data acquisition system available. All evaluation board functionality for evaluating the CS5566 ADC is accessed through the connector interface and board-level options.

598-1557-ND	(CDB5566)	**$101.71**

CDBCAPTPL2 CapturePlus™ II System

The CapturePlus data acquisition system is a development tool that interfaces a Cirrus Logic evaluation board to a PC compatible computer. Digital data is collected in a high speed FIFO, then transmitted to the PC over a USB connection. Evaluation software is included to analyze the data and demonstrate the ADC's performance.

598-1570-ND	(CDBCAPTPL2)	**$368.75**

CDB5581 and CDK5581 Evaluation Boards

This is a versatile tool designed for evaluating the functionality and performance of the CS5581 A/D converter. The SPI serial port on the CDB5581 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus™ II data acquisition system. All evaluation board functionality for evaluating the CS5581 ADC is accessed through the connector interface and board-level options.

598-1559-ND	(CDB5581)	**$101.71**
598-1574-ND	(CDK5581) CDB5581 with CapturePlus II System	**$458.29**

CRD5381 Reference Design

The CRD5381 was designed as a platform for easy evaluation of the jitter rejection, sample rate conversion, and time-division multiplexing capabilities of the CS8421 in the context of a A/D conversion system with an asynchronous decimation filter. The CRD5381 accepts four channels of balanced, analog audio input and provides four channels of PCM data output. The PCM data output is synchronous to the serial left-right clock and bit clock that the user supplies.

598-1592-ND	(CRD5381)	**$450.00**

Digital-to-Analog Converters

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
24-bit Delta-Sigma, stereo, 98dB dynamic range, I^2C®/SPI™ control, low power, 32-QFN	598-1187-ND	6.06	5.05	CS43L21-CNZ
Low power, stereo DAC with headphone, and speaker amps, 40-QFN	598-1650-ND	6.39	5.33	CS43L22-CNZ
Low voltage, stereo DAC with headphone amp, 1.8V ~ 3.3V, 24-TSSOP	598-1651-ND	8.56	7.61	CS43L42-KZZ
16-24-bit Delta-Sigma, stereo, up to 100kHz sample rate, 96dB dynamic range, I2S control, filtered line-level outputs, single +5 power supply, 8-SOIC	598-1631-ND	3.56	2.86	CS4334-DSZ
16-24-bit Delta-Sigma, stereo, up to 96kHz sample rate, 96dB dynamic range, I2S control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1046-5-ND	2.97	2.39	CS4334-KSZ
16-24-bit Delta-Sigma, stereo, up to 96kHz sample rate, 96dB dynamic range, left justified control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1047-5-ND	2.97	2.39	CS4335-KSZ
16-bit Delta-Sigma, stereo, up to 96kHz sample rate, 96dB dynamic range, right justified control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1048-5-ND	2.97	2.39	CS4338-KSZ
24-bit Delta-Sigma, stereo, up to 96kHz sample rate, 101dB dynamic range, Popguard Technology, Not recommended for new designs, 16-TSSOP	598-1049-5-ND	5.16	4.30	CS4340-CZZ
24-bit Delta-Sigma, stereo, up to 96kHz sample rate, digital volume control, 101dB dynamic range, on-chip digital de-emphasis, Popguard Technology, 16-TSSOP	598-1050-5-ND	5.67	4.73	CS4341-CZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, digital volume control, 101dB dynamic range, on-chip digital de-emphasis, 16-SOIC	598-1633-ND	6.54	5.45	CS4341A-KSZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 105dB dynamic range, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1051-5-ND	3.02	2.43	CS4344-CZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 105dB dynamic range, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1634-ND	3.64	2.93	CS4344-DZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 105dB dynamic range, left justified control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1052-5-ND	3.02	2.43	CS4345-CZZ
16-bit Delta-Sigma, stereo, up to 192kHz sample rate, 105dB dynamic range, right justified control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1054-5-ND	3.02	2.43	CS4348-CZZ
24-bit Delta-Sigma, up to 192kHz sample rate, 101dB dynamic range, Popguard® Technology, SPI™ and I^2C® modes, 24-TSSOP	598-1636-ND	4.06	3.27	CS4349-CZZ
192kHz, stereo DAC modes with integrated PLL, SPI™ and I^2C®, 24-TSSOP	598-1184-5-ND	7.80	6.94	CS4350-DZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 112dB dynamic range, on-chip 2Vrms line-level driver, digital volume control, Popguard Technology, 20-TSSOP	598-1055-5-ND	4.62	3.72	CS4351-CZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 106dB dynamic range, 2Vrms line output, 3.3V 24-QFN	598-1640-ND	3.78	3.04	CS4353-CNZ
24-bit Delta-Sigma, 6-channel, up to 192kHz sample rate, 102dB dynamic range, digital volume control, digital de-emphasis, Popguard Technology, 28-TSSOP	598-1056-5-ND	13.18	11.72	CS4360-DZZ

(Continued)

Digital-to-Analog Converters *(Cont.)*

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
24-bit Delta-Sigma, 6-channel, up to 200kHz sample rate, 102dB dynamic range, digital volume control, digital de-emphasis, Popguard® Technology, 28-TSSOP	598-1642-ND	10.45	9.29	CS4360-KZZ
24-bit Delta-Sigma, 6-channel, up to 192kHz sample rate, 103dB dynamic range, output mute control, digital de-emphasis, filtered line-level outputs, Popguard® Technology, 20-TSSOP	598-1057-5-ND	5.26	4.23	CS4361-CZZ
24-bit 6-channel, up to 192kHz sample rate, 114dB dynamic range, volume control, matched PCM and DSD Analog output levels, 48-LQFP	598-1644-ND	15.30	13.77	CS4362-KQZ
24-bit Delta-Sigma, 6-channel, up to 192kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD Analog output levels, 48-LQFP	598-1058-ND	13.75	12.38	CS4362A-CQZ
24-bit Delta-Sigma, 6-channel, up to 192kHz sample rate, 103dB dynamic range, Direct Stream Digital® mode, volume control, TDM serial interface, ATAPI channel mixing, 48-LQFP	598-1059-ND	5.60	4.50	CS4364-CQZ
24-bit Delta-Sigma, 6-channel, up to 192kHz sample rate, 114dB dynamic range, Direct Stream Digital® mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1060-ND	6.24	5.02	CS4365-CQZ
24-bit Delta-Sigma, 8-channel, up to 192kHz sample rate, 103dB dynamic range, Direct Stream Digital® mode, volume control, ATAPI channel mixing, 48-LQFP	598-1062-ND	6.48	5.31	CS4384-CQZ
24-bit Delta-Sigma, 8-channel, up to 192kHz sample rate, 114dB dynamic range, Direct Stream Digital® mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1063-ND	7.20	5.91	CS4385-CQZ
24-bit Delta-Sigma, 8-channel, up to 192kHz sample rate, 114dB dynamic range, Direct Stream Digital® mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1649-ND	8.65	7.10	CS4385-DQZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 108dB dynamic range, Not recommended for new designs, 20-TSSOP	598-1064-5-ND	7.24	6.44	CS4391A-KZZ
24-bit Delta-Sigma, stereo, up to 192kHz sample rate, 114dB dynamic range, Direct Stream Digital® mode, volume control, single +5V supply, ATAPI mixing functions, 20-TSSOP	598-1065-5-ND	11.23	9.99	CS4392-KZZ
Up to 24-bit Delta-Sigma, up to 192kHz sample rate, PCM and DSD inputs, 120dB dynamic range, external muting control, volume control, stand-alone or I^{2}C/SPI control, 28-TSSOP	598-1067-5-ND	12.60	11.34	CS4398-CZZ
Up to 24-bit Delta-Sigma, up to 192kHz sample rate, 109dB dynamic range, integrated PLL, muting control for individual channels, digital volume control, I^{2}C/SPI control, ATAPI mixing, 24-TSSOP	598-1185-5-ND	7.20	6.00	CS4350-CZZ
24-bit Delta-Sigma, up to 192kHz sample rate, 106dB (A-wt) dynamic range, integrated line driver, 2Vrms line-level output, stereo mute, analog low-pass filter, Popguard Technology, 20-TSSOP	598-1186-5-ND	3.22	2.59	CS4352-CZZ
24-bit I^{2}S Input, up to 192kHz sample rate, 101dB (A-wt) dynamic rage, advanced multi-bit Delta-Sigma Modulator, 14-SOIC	598-1808-ND ***NEW!***	3.22	2.59	CS4354-CSZ

CDB4398 Evaluation Board

An excellent means for quickly evaluating the CS4398 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4398 (stand alone operation is also available) and a power supply. Analog line-level outputs are provided via RCA phono jacks and balanced XLR. The CS8414 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF, and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1155-ND (CDB4398) **$472.50**

CDB4334 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4334 family of 24-bit, stereo D/A converters. Evaluation requires an analog signal analyzer, a digital signal source and a power supply. Analog outputs are provided via RCA connectors for both channels.

598-1510-ND (CDB4334) **$472.50**

CDB4350 Evaluation Board

This evaluation board is an excellent platform for quickly evaluating the CS4350 24-bit, stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4350 and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1517-ND (CDB4350) **$693.00**

CDB4351 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4351 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4351 and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1152-ND (CDB4351) **$405.00**

CDB4352 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4352 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1518-ND (CDB4352) **$405.00**

CDB4353 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4353 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, and a +3.3V power supply. Analog line-level outputs are provided via RCA phono jacks. The CDB4353 is controlled by switches to select the digital signal source and configuration options for the CS4353. Current sense resistors allow for easy power calculations during system development.

598-1519-ND (CDB4353) **$405.00**

CDB4362A Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4362A 24-bit, 6-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4362A, and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1521-ND (CDB4362A) **$472.50**

CDB4365 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4365 24-bit, 6-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4365 and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1779-ND (CDB4365) **$472.50**

CDB4382A Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4382A 24-bit, 8-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4382A and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1524-ND (CDB4382A) **$472.50**

CDB4384 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4384 24-bit, 8-channel, single ended D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4384 and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1525-ND (CDB4384) **$472.50**

CDB4385 Evaluation Board

This evaluation board is an excellent means for quickly evaluating the CS4385 24-bit, 8-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4385 and a power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1154-ND (CDB4385) **$472.50**

CDB43L21 Evaluation Board

This evaluation board is an excellent means for evaluating the CS43L21 D/A converter. Evaluation requires a digital signal source, analog analyzer, and a power supply. RCA phono jacks are provided for the CS43L21 analog outputs. 1/8th inch jacks are also available for headphone output. Digital data input is available via RCA phono or optical connectors to the CS8415.

598-1528-ND (CDB43L21) **$581.25**

CDB43L22 Evaluation Board

Using this evaluation board is an ideal way to evaluate the CS43L22. Use of the board requires an analog/digital signal source, an analyzer and power supplies. A Windows® PC compatible computer is also required. 1/8th inch audio jacks are provided for the analog pass through inputs and HP/Line outputs. Two pairs of banana jacks and an additional pair of 1/8th inch audio jacks are provided to monitor the stereo differential speaker PWM output from the CS43L22. Digital input connections are via RCA phono or optical connectors to the CS8416 (S/PDIF Rx).

598-1529-ND (CDB43L22) **$468.75**

NEW! CS4354 Evaluation Board

The CDB4354 evaluation board is a dedicated platform designed to facilitate the evaluation of the CS4354 24-bit, stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, and a +5V power supply. Analog line-level outputs are provided via RCA phono jacks.

598-1809-ND (CDB4354) **$405.00**

Clock / Timers

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Clock Generator, Clock Multiplier/Jitter Reduced Frequency Synthesizer, 10-MSOP	598-1748-ND◆	9.64	8.57	CS2000CP-CZZ
Clock Generator, Clock Multiplier/Jitter Reduced Frequency Synthesizer, 10-MSOP	598-1749-ND◆	9.64	8.57	CS2000P-CZZ
Fractional-N Clock Multiplier/Jitter Reduction, I^{2}C® and SPI™, 10-MSOP	598-1750-ND◆	5.94	4.95	CS2100CP-CZZ
Fractional-N Clock Multiplier/Jitter Reduction, I^{2}C® and SPI™, 10-MSOP	598-1751-ND◆	5.94	4.95	CS2100P-CZZ
Fractional-N Frequency Synthesizer, I^{2}C® and SPI™, 10-MSOP	598-1752-ND◆	7.29	6.08	CS2200CP-CZZ
Fractional-N Frequency Synthesizer, I^{2}C® and SPI™, 10-MSOP	598-1753-ND◆	5.94	4.95	CS2200P-CZZ
Fractional-N Clock Multiplier with Internal LC Oscillator, 10-MSOP	598-1754-ND◆	5.94	4.95	CS2300CP-CZZ
Fractional-N Clock Multiplier with Internal LC Oscillator, 10-MSOP	598-1755-ND◆	5.94	4.95	CS2300P-CZZ
IC, General Purpose PLL Crystal, 10-TSSOP	598-1594-ND	5.67	4.73	CS220002-CZZ
IC Clock, Bandwidth 128Hz with 1x, 2x, 4x, and 8x multipliers, 10-TSSOP	598-1596-ND	5.67	4.73	CS230002-CZZ
IC Clock, Bandwidth 128Hz with 1x, 4x, 128x and 256x multipliers, 10-TSSOP	598-1597-ND	5.94	4.95	CS230003-CZZ
Evaluation Board, General Purpose PLL	598-1490-ND	28.13	—	CDB2000-DCCLKCP
Evaluation Board, General Purppose PLL	598-1491-ND	112.50	—	CDB2000-MB
Evaluation Board, General Purpose PLL DC	598-1492-ND	28.13	—	CDB2000-PC-CLK
Evaluation Board, General Purpose PLL DC	598-1493-ND	28.13	—	CDB2000-PC-LCO
Evaluation Board, General Purpose PLL	598-1494-ND	28.13	—	CDB2300-DC-LCO-CP
Evaluation Kit, General Purpose PLL LCO Kit	598-1572-ND	168.75	—	CDK2000-LCO

◆ ***RoHS Compliant***

CDK2000-CLK Development Platform for CS2000 family

The CDK2000 is a flexible development platform designed to allow evaluation of all members of the CS2000, CS2100, CS2200, and CS2300 device sub-families. The on-board firmware handles all aspects of programming the DUT and transitioning it between modes. CDK Configuration Wizard software is available for real-time control of DUTs that can run in Control Panel mode.

598-1571-ND (CDK2000-CLK) **$168.75**

CIRRUS LOGIC®

CobraNet™

The CobraNet solution leverages the rapid developments in the computer networking industry to provide an increasingly cost effective connectivity solution for audio professionals worldwide. It's based on the highly integrated CS1810xx CobraNet Silicon Series, providing an interface in the form of a compact, low power, low cost module. Featuring 2, 8 or 16 simultaneous channels of digital audio input and output, the CM-2 is designed to be easily integrated into a wide variety of audio products such as signal processors, mixers, amplifiers, ceiling speakers and self-powered loudspeakers.

Features:

- 100BASE-TX Ethernet Interface - 100Mbps, full-duplex Ethernet, fully compliant with IEEE 802.3u Standard
- Secondary 100BASE-TX Ethernet Interface - redundant network connection for fault tolerance
- Quad synchronous serial output ports - capable of supplying and receiving 8 or 6 channels • TFTP support - firmware updates over the network • Low latency - selectable 1.33, 2.66 or 5.33ms across network • Status LEDs - Link, Activity and CobraNet conductor status for each Ethernet jack • Ability to send audio from any CobraNet interface to any other - unlimited addressing, unlimited capacity.

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Module CobraNet 4961 CM2 FB	598-1021-ND	157.50	—	CPB496122-CM2-FB
Module CobraNet 4961 CM2 MT	598-1022-ND	157.50	—	CPB496122-CM2-MT
2x2-Channel, 144-LQFP	598-1024-ND◆	22.82	19.27	CS181002-CQZ
8x8-Channel, 144-LQFP	598-1025-ND◆	25.04	21.15	CS181012-CQZ
16x16-Channel, 144-LQFP	598-1026-ND◆	28.04	23.68	CS181022-CQZ
Audio DSP CobraNet 144-LQFP	598-1071-ND◆	27.07	22.86	CS496102-CQZ
Audio DSP CobraNet 144-LQFP	598-1072-ND◆	29.27	24.72	CS496112-CQZ
Audio DSP CobraNet 144-LQFP	598-1073-ND◆	32.27	27.25	CS496122-CQZ

◆ ***RoHS Compliant***

CS496122 Evaluation Board

The EV-2 kit provides a convenient means of evaluating CM-2 CobraNet modules. The EV-2 serves as a CobraNet interface reference design and can be used as a development platform for CobraNet products.

598-1007-ND Evaluation Board CS496122 .... **$2475.00**

ARM® Processors

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
200MHz ARM9 Processor	598-1137-ND◆	23.31	19.69	EP9302-CQZ
166MHz ARM920T Processor	598-1250-ND◆	22.75	19.21	EP9301-IQZ
200MHz ARM9 Processor	598-1254-ND	30.06	25.39	EP9307-CR
200MHz ARM9 Processor	598-1256-ND◆	34.88	29.45	EP9307-IRZ
200MHz ARM9 Processor	598-1260-ND◆	42.14	35.59	EP9312-IBZ
200MHz ARM9 Processor	598-1261-ND	41.72	35.23	EP9315-CB
200MHz ARM9 Processor	598-1262-ND	41.52	37.37	EP9315-IB

◆ ***RoHS Compliant***

Development Kit for ARM® Processors

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each	Cirrus Logic Part No.
Embedded Processor Development System for EP9312/EP9315	598-1144-ND	312.50	EDB9315A-Z

Digital Amplifiers/Power Technology

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
6-Channel Digital Amplifier Controller	598-1068-5-ND	10.21	9.08	CS44600-CQZ
8-Channel Digital Amplifier Controller	598-1070-ND	10.64	9.46	CS44800-CQZ
Multi-Bit A/D Real Time PSR Feedback	598-1069-5-ND	7.26	6.05	CS4461-CZZ
30W Quad Half-Bridge Digital Amplifier Power Stage, 48-QFN	598-1653-ND	7.80	6.94	CS4412A-CNZ
Digital TV Amplifier, 30W with integrated ADC 102dB, 48-QFN	598-1264-ND	10.42	9.27	CS4525-CNZ
2.7W Hybrid Class-D Audio Amplifier, 10-DFN	598-1799-ND ***NEW!***	1.89	1.53	CS35L00-CNZ

NEW! Sound Bar Reference Design

Complete reference design and turn-key manufacturing design kit includes: • IC data sheets • Application notes • Hardware user's manual • CS485xx family evaluation kit installer • Schematics, PCB layout files and BOMs • SiLabs 8051 family microcontroller source code • CRD-SB30Wx2 performance/test plots.

CRDSB30WX2-ND (CRDSB30WX2) **$312.50**

CRD44600-PH-FB Reference Design

The CRD44600-PH-FB PWM Amplifier demonstrates the CS44600, Cirrus' multi-channel pure digital PWM controller. This reference design implements a two-channel amplifier which delivers 100W per full-bridge channel into 8Ω loads using a single +50V supply (at 1% THD+N). A 155W unregulated linear power supply is used to power the CRD44600-PH-FB.

598-1023-ND (CRD44600-PH-FB)........ **$786.38**

CDB44800 Evaluation Board

This demonstration board is an excellent means for evaluating the CS44800 eight-channel Class D PWM modulator. Evaluation requires a digital audio signal source, analog audio analyzer, and power supplies. PWM output from the CS44800 is amplified using Philips TDA8939 power stage. The CS4461 is used for power supply rejection. A line out and headphone driver are provided. A comprehensive GUI provides control over the functions of the CS44800, CS4461, CS8416, and Philips TDA8939.

598-1532-ND (CDB44800)........ **$776.25**

CRD3511-Q1 Reference Design

This demonstrates the CS3511 high-efficiency Class-D amplifier. This reference design implements a two channel amplifier that delivers 9W per full bridge channel into 8Ω loads using a single +12V supply. Standard RCA phono jacks are provided to easily interface single-ended analog input signals with the evaluation board. A source impedance matching circuit on the board allows the full performance of the CS3511 to be tested with any available audio source. The audio power outputs are routed through an inductor/capacitor 2nd order low-pass filter (LPF) to remove high frequency components from the output signal, effectively converting it from digital to analog.

598-1577-ND (CRD3511-Q1)........ **$55.00**

CRD4412A Reference Design

This demonstrates the CS4412A digital amplifier power stage. This reference design is preconfigured as a two-channel full-bridge power stage which delivers 15W per channel into 8Ω loads using a single +18V supply. The PWM audio power outputs are routed through an inductor/capacitor 2nd order low pass filter (LPF) to remove high-frequency components from the output signal, effectively converting it from digital to analog.

598-1581-ND (CRD4412A)........ **$561.25**

CRD4525-Q1 Reference Design

This demonstrates the CS4525 digital PWM controller with integrated power stages. This reference design implements a two-channel amplifier that delivers 15W per full-bridge channel into 8Ω loads using a single +18V supply. The CRD4525-Q1 is powered by an included 80W switching mode power supply. The PWM audio power outputs are routed through an inductor/capacitor 2nd order low-pass filter (LPF) to remove high-frequency components from the output signal, effectively converting it from digital to analog.

598-1586-ND (CRD4525-Q1)........ **$786.25**

NEW! CDB35L00 Amplifier Demonstration Board

The CDB35L00-X4 demonstrates the CS35L00 high-efficiency Hybrid Class-D audio amplifier. This demonstration board implements a four-channel, quad amplifier system that delivers 2.7W per full-bridge channel into 4-Ω loads using a single +5V supply. Contains four CS35L00 Hybrid Class-D Amplifiers.

598-1803-ND (CDB35L00)........ **$487.50**

NEW! CRD35L01 Amplifier Reference Design Kit

The CRD35L01 demonstrates the CS35L01 high-efficiency Hybrid Class-D audio amplifier. This reference design implements a single-channel amplifier that delivers 1.7W per full-bridge channel into 8-Ω loads using a single +5V supply. Four boards are provided in the kit.

598-1804-ND (CRD35L01)........ **$103.75**

NEW! CDB1500 High-Efficiency PFC Demonstration Board

The CDB1500-01 board demonstrates the performance of the CS1500 digital PFC controller with a 90 watt output at a link voltage of 400V.

Features: • Variable On Time, Variable Frequency, DCM PFC controller • Line Voltage Range: 90 ~ 260 VAC RMS • Efficiency: 97% @ 90W, 230 VAC • No-load Power Dissipation: <0.3W • Low Component Count

598-1805-ND (CDB1500)........ **$126.06**

NEW! CDB1600 High-Efficiency PFC Demonstration Board

The CDB1600 120W board demonstrates the performance of the CS1600 digital PFC controller as a stand-alone unit. This board is 95% efficient at full load, and has been tailored for use with a resonant second stage to power up to two T5 fluorescent lamps for a maximum output of 108W. A resonant second stage driver efficiency of 94% is assumed for this application.

598-1806-ND (CDB1600-120W)........ **$126.06**

Infrared Echo Canceller

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Telephony Network Echo Suppression, 2-Channel, Full Duplex, 20-SOIC	598-1200-5-ND◆	17.45	15.71	CS6422-CSZ
Multi-Standard Infrared Transceiver, 1-Channel, 20-SSOP	598-1203-5-ND	11.69	10.40	CS8130-CS
Multi-Standard Infrared Transceiver, 1-Channel, 20-SSOP	598-1204-5-ND◆	11.69	10.40	CS8130-CSZ

◆ ***RoHS Compliant***

CIRRUS LOGIC®

Ethernet

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
LAN Controller, 3.3V, 100-LQFP	598-1127-ND	12.78	11.50	CS8900A-CQ3Z
LAN Controller, 5V, 100-LQFP	598-1128-ND	12.65	11.39	CS8900A-CQZ
LAN Controller, 3.3V, 100-LQFP	598-1129-ND	17.15	15.44	CS8900A-IQ3Z
LAN Controller, 5V, 100-LQFP	598-1130-ND	17.08	15.37	CS8900-IQZ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1206-ND	19.33	17.40	CS8952-CQZ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1208-ND	17.58	15.82	CS8952-IQZ

Volume Control

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
8-Channel Analog Volume Control, 118dB, I²C/SPI Control, 48-LQFP	598-1598-ND◆	24.88	22.39	CS3308-CQZ
Stereo Digital Volume Control, 127dB, Serial Control, 16-SOIC	598-1599-ND◆	13.34	11.86	CS3310-KSZ
8-Channel Analog Volume Control, 123dB, Single-Ended, 48-LQFP	598-1180-ND◆	28.87	24.38	CS3318-CQZ
Evaluation Board for CS3310, Stereo Digital Volume Control	598-1000-ND	472.50	—	CDB3310

◆ ***RoHS Compliant***

CDB3308 Evaluation Board

This evaluation board is an excellent means for evaluating the CS3308 analog volume control. Evaluation requires an analog signal source/analyzer, power supplies, and a Windows® PC compatible computer. Standard RCA phono jacks are provided to easily interface external analog signals with the evaluation board. Each of the CS3308's inputs and outputs may be independently AC or DC coupled to their respective I/O connectors.

598-1496-ND (CDB3308) **$472.50**

CDB3318 Evaluation Board

This evaluation board is an excellent means for evaluating the CS3318 analog volume control. Evaluation requires an analog signal source/analyzer, power supplies, and a Windows® PC compatible computer. Standard RCA phono jacks are provided to easily interface external analog signals with the evaluation board. Each of the CS3318's inputs and outputs may be independently AC or DC coupled to their respective I/O connectors.

598-1497-ND (CDB3318) **$472.50**

Interface and Sample Rate Converters

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
T1/E1/J1 Octal line interface Unit, 160-LFBGA	598-1717-ND	26.14	22.22	CS61884-IRZ
3.3V and 5V Dual T1/E1 line interface Unit, 64-LQFP	598-1713-ND	26.17	22.10	CS61584A-IQ3Z
192kHz Digital Transmitter, 28-SOIC	598-1757-ND	6.91	6.15	CS8406-CSZ
192kHz Digital Transmitter, 28-TSSOP	598-1121-5-ND	6.91	6.15	CS8406-CZZ
192kHz Digital Transmitter, 28-TSSOP	598-1722-ND	8.64	7.68	CS8406-DZZ
192kHz Digital Receiver, 28-QFN	598-1723-ND	9.48	8.43	CS8416-CNZ
192kHz Digital Receiver, 28-SOIC	598-1123-5-ND	9.48	8.43	CS8416-CSZ
192kHz Digital Receiver, 28-TSSOP	598-1124-5-ND	9.48	8.43	CS8416-CZZ
192kHz Digital Receiver, 28-TSSOP	598-1726-ND	12.47	11.09	CS8416-DZZ
Digital-Audio Sample Rate, 28-SOIC	598-1125-5-ND	31.86	26.91	CS8420-CSZ
Digital-Audio Sample Rate, 28-SOIC	598-1729-ND	38.14	32.21	CS8420-DSZ
32-Bit Asynchronous Sample, 20-QFN	598-1730-ND	12.26	10.90	CS8421-CNZ
32-Bit Asynchronous Sample, 20-TSSOP	598-1126-5-ND	12.26	10.90	CS8421-CZZ
24-Bit 192kHz Asynchronous Sample, 32-QFN	598-1732-ND	15.20	13.68	CS8422-CNZ
96kHz Digital Audio Transceiver, 28-SOIC	598-1733-ND	15.78	14.20	CS8427-CSZ
96kHz Digital Audio Transceiver, 28-TSSOP	598-1735-ND	19.65	17.69	CS8427-DZZ

CDB8416 Evaluation Board

The CDB8416 is designed to allow easy evaluation of the CS8406 and CS8416. The board is designed for easy connection to an Audio Precision or other digital audio test system. Input and output data may be set for either balanced using the XLR connectors or unbalanced using the coax or optical connectors. Windows PC software provides a GUI to make configuration easy in software mode. The software communicates through the PC's parallel port to control the internal registers so that all the possible software modes of the CS8416 may be tested.

Features: • CS8416 Digital Audio Receiver • Receives and transmits AES/EBU, S/PDIF and EIAJ-340 compatible digital audio • Analog and Digital 3.3V Supply • 3.3 ~ 5.0V Logic Interface Supply • Operates in stand alone Hardware Mode or computer controlled Software Mode • Balanced and unbalanced inputs available.

598-1017-ND (CDB8416) **$573.75**

CDB8420 Evaluation Board

The CDB8420 is designed to allow rapid evaluation of the CS8420. Because of the high performance of the CS8420, the board is set up for easy connection to an Audio Precision or a Rhode and Schwarz test system. Currently available A/D and D/A converters are not adequate to test the full performance of the device. Input and output data may independently be set to either AES/EBU or S/PDIF in optical or coaxial physical formats.

598-1782-ND (CDB8420) **$607.50**

Evaluation Board for CS8421

The CDB8421 demonstration board is an excellent means for evaluating the CS8421 sample rate converter. System timing can be provided by the CS8421, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. Digital I/O is available via coaxial (RCA) or optical connectors to the CS8416 and SC8406. All configuration control is handled from onboard switches.

Features: • CS8416 S/PDIF Digital Audio Receiver • CS8406 S/PDIF Digital Audio Transmitter • Header for External Serial Audio I/O • 3.3 ~ 5.0V Logic Interface • No software required to operate

598-1018-ND (CDB8421) **$540.00**

CDB8422 Evaluation Board

Using the CDB8422 is an ideal way to evaluate the CS8422. Use of the board requires a digital signal source, an analyzer, and a power source. S/PDIF and AES3/EBU input connections are made via RCA phono, optical, or XLR connectors from the CS8422. S/PDIF output connections are made via RCA phono or optical connectors from the CS8406.

598-1568-ND (CDB8422) **$431.25**

CDB8427 Evaluation Board

The CDB8427 is designed to allow rapid evaluation of the CS8427. The board is set up for easy connection to an Audio Precision or a Rhode and Schwarz test system. Input and output data formats may independently be set to either AES/EBU, or S/PDIF with either optical or coaxial physical format.

598-1783-ND (CDB8427) **$472.50**

Video Encoder

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
NTSC/PAL Digital Video Encoder, 48-TQFP	598-1682-ND	12.55	11.30	CS4954-CQZ

Op Amp

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Dual, Ultra Low Noise Op Amp, 3.6mA 125nVp-p	598-1141-5-ND	5.46	4.55	CS3002-ISZ
Dual, Ultra Low Noise Op Amp, 1.7mA 250nVp-p	598-1143-5-ND	5.46	4.55	CS3012-ISZ
Dual, Precision Low-Voltage, Low-Power Op Amp, 1.0mA, 8-SOIC	598-1146-1-ND‡	3.58	2.87	CS3014-FSZR
	598-1146-2-ND†	4070.40/2,000		CS3014-FSZR
Dual, Low-Voltage, Low-Power, Op Amp, 2.1mA, 150dB, 8-SOIC	598-1170-5-ND	4.65	3.88	CS3004-FSZ
Dual, Low-Voltage, Low-Power, Op Amp, 1mA, 135dB, 8-SOIC	598-1178-5-ND	4.65	3.88	CS3014-FSZ

‡ Cut Tape † Tape and Reel

CDB30xx Prototype Board

The CDB30xx is a blank circuit board that provides a prototyping platform for the CS30xx series of operational amplifiers. The board has four different circuit sections. The board can be used intact or it can be separated into four separate smaller boards. The board is provided without components but a selection of Cirrus Logic operational amplifiers are provided as samples. The samples include two each of the CS3001, CS3002, CS3011, CS3012, CS3003, CS3004, CS3013, and CS3014 devices.

598-1495-ND (CDB30XX) **$24.94**

NEW! PFC Controllers

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Digital PFC, 8-SOIC	598-1800-ND	2.88	2.33	CS1500-FSZ
PFC for electronic ballasts, 8-SOIC	598-1801-ND	2.88	2.33	CS1600-FSZ

Amplifiers

A world-wide industry innovator in power analog. Apex precision power defines power analog in terms of product solutions that deliver output currents above 100mA or operate on voltage supplies greater than 24V.

Power Amplifier Modules

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High voltage, high current, 10V/µS slew rate, 4-wire sense, +/-100V, 10A, 30-DIP	598-1412-ND	111.35	69.60	MP38CL
High voltage, high current, 10V/µS slew rate, 4-wire sense, +/-50V, 10A, 30-DIP	598-1414-ND	112.66	70.41	MP39CL
High voltage, high current, 10V/µS slew rate, 4-wire sense, +/-50V, 11A, 30-DIP	598-1415-ND	135.19	84.49	MP39CLA
Dual channel, high voltage, high current, 167V/µS slew rate, +/-200V, 15A, 42-DIP	598-1794-ND◆ ***NEW!***	199.36	148.52	MP103FC
High voltage, high current, 100 watt dissipation capability, +/-100V, 10A, 34-DIP	598-1407-ND	327.38	111.66	MP108FD
High voltage, high current, 500kHz power bandwidth, +/-50V, 15A, 34-DIP	598-1409-ND	331.98	118.58	MP111FD
High voltage, high speed with supply voltage boost, 50V ~ 350V out, 150mA, 42-DIP	598-1483-ND	165.92	126.12	MP400FC

◆ ***RoHS Compliant***

Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Wideband high power, class A/B output, 3KV/uS slew rate, high peak output current ±5A, 12-SIP	598-1793-ND ***NEW!***	362.88	288.97	PA107DP
High voltage, high current, class A/B output, +/-28V, up to 5A peak, TO-3-8	598-1285-ND◆	153.88	77.95	PA01
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1286-ND◆	128.40	64.99	PA02
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1287-ND◆	155.93	84.53	PA02A
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1418-ND	318.99	172.96	PA02M
High voltage MOSFET, external sleep mode control, 50V/uS slew rate, 200V, 20A, MO-127-12	598-1420-ND◆	456.75	264.77	PA04
High voltage MOSFET, external sleep mode control, 50V/uS slew rate, 200V, 20A, MO-127-12	598-1290-ND◆	529.90	307.15	PA04A
High voltage MOSFET, external shutdown control, 100V/uS slew rate, 100V, 30A, MO-127-12	598-1291-ND◆	539.55	312.70	PA05
High voltage MOSFET, external shutdown control, 100V/uS slew rate, 100V, 30A, MO-127-12	598-1292-ND◆	668.02	598.91	PA05A
FET input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1293-ND◆	191.50	103.86	PA07
FET input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1421-ND	475.67	275.70	PA07M
FET Input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1294-ND◆	248.93	134.99	PA07A
High voltage, programmable output current limit, low bias current, +/-150V, 200mA, TO-3-8	598-1296-ND◆	207.39	112.46	PA08
High voltage, programmable output current limit, low bias current, +/-150V, 200mA, TO-3-8	598-1297-ND◆	657.43	381.02	PA08M/883
4MHz gain bandwidth, class A/B output, high output current, +/-45V, 5A, TO-3-8	598-1301-ND◆	145.33	73.59	PA10
4MHz gain bandwidth, class A/B output, high output current, +/-50V, 5A, TO-3-8	598-1302-ND◆	174.69	94.68	PA10A
4MHz gain bandwidth, class A/B output, high output current, +/-45V, 5A, TO-3-8	598-1426-ND	525.84	307.00	PA10M/883
High voltage, very high output current, class A/B output, +/-45V, 15A, TO-3-8	598-1303-ND◆	164.09	85.70	PA12
High voltage, very high output current, class A/B output, +/-50V, 15A, TO-3-8	598-1304-ND◆	187.16	104.06	PA12A
High voltage, very high output current, class A/B output, +/-45V, 15A, TO-3-8	598-1427-ND	390.27	226.22	PA12M
High voltage, very high output current, high temperature, class A/B output, +/-45V, 15A, TO-3-8	598-1305-ND◆	493.07	285.86	PA12H
High voltage, very high output current, class A/B output, +/-45V, 15A, 12-SIP	598-1307-ND◆	187.78	172.24	PA13
High voltage, low quiescent current, MOSFET input and output, 200mA continuous and 350mA pulse currents into capacitive loads, +/-450V, 10-SIP (formed leads)	598-1741-ND	258.52	127.83	PA15FU
FET input, 350kHz power bandwidth, 20V/uS slew rate, A/B output, +/-19V, 5A, 12-SIP	598-1429-ND	182.59	90.25	PA16
MOSFET, high current, 50V/uS slew rate, boost voltage inputs, +/-50V, 100A, MO-127-12	598-1313-ND◆	868.73	540.80	PA50A
High voltage, high output current, common emitter class C output, +/-36V, 10A, TO-3-8	598-1434-ND◆	160.89	140.13	PA51
High voltage, high output current, common emitter class C output, +/-40V, 10A, TO-3-8	598-1314-ND◆	169.26	83.68	PA51A
High voltage, high output current, common emitter class C output, +/-36V, 10A, TO-3-8	598-1435-ND	300.78	158.89	PA51M
High voltage, high output current, common emitter class C output, +/-36V, 10A, TO-3-8	598-1315-ND	385.64	203.69	PA51M/883
MOSFET, high current, 50V/uS slew rate, boost voltage inputs, +/-100V, 80A, MO-127-12	598-1316-ND◆	752.90	468.71	PA52
MOSFET, high current, 50V/uS slew rate, boost voltage inputs, +/-100V, 80A, MO-127-12	598-1436-ND◆	978.82	924.44	PA52A
High output current, class C type output stage, low quiescent current, +/-45V, 10A, TO-3-8	598-1317-ND◆	159.36	73.59	PA61
High output current, class C type output stage, low quiescent current, +/-45V, 10A, TO-3-8	598-1318-ND◆	156.55	77.36	PA61A
High output current, class C type output stage, low quiescent current, +/-45V, 10A, TO-3-8	598-1437-ND	370.69	209.29	PA61M/883
High voltage, high output current, class C output, isolated case, +/-30V, 5A, TO-3-8	598-1319-ND◆	153.88	77.95	PA73
High voltage, high speed, over 200kHz power bandwidth, +/-175V, 150mA, 20-PSOP (SMT)	598-1351-ND◆	42.59	22.63	PA78DK
High voltage, 200V/uS slew rate, fully protected FET input, +/-150V, 50mA, TO-3-8	598-1324-ND◆	231.03	125.29	PA84
Ultra high voltage, MOSFET, 1140Vpp signal output, +/-600V, 75mA, MO-127-12	598-1329-ND◆	885.94	836.72	PA89
High voltage, MOSFET, high bandwidth, 1000V/uS slew rate, +/-225V, +/-200mA, 12-SIP	598-1337-ND	309.69	167.94	PA98
High voltage, MOSFET, high bandwidth, 1000V/uS slew rate, +/-225V, +/-200mA, 12-SIP	598-1450-ND	376.57	218.27	PA98A
Quad. power op amp, 1.1MHz, 1.5A per amp, thermal shutdown, +/-20V, MO-166-AB	598-1430-ND	31.73	16.86	PA162DK
High voltage, high current, 100 watt dissipation capability, +/-100V, 11A, 34-DIP	598-1408-ND	191.40	119.63	MP108FDA

◆ ***RoHS Compliant***

High Voltage Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Low quiescent current, MOSFET input and output, +/-225V, 3mA, 10-SIP	598-1428-ND	198.87	98.33	PA15FL
Low quiescent current, MOSFET input and output, +/-225V, 3mA, 10-SIP	598-1309-ND	206.93	108.16	PA15FLA
High output current, FET input, low bias current, low noise, +/-75V, 15mA, TO-3-8	598-1321-ND◆	220.41	113.70	PA81J
High output current, FET input, low bias current, low noise, +/-150V, 15mA, TO-3-8	598-1441-ND◆	243.66	132.13	PA82J
FET input, low bias current, low noise, class A/B output, +/-150V, 100mA, TO-3-8	598-1322-ND◆	249.32	138.31	PA83
FET input, low bias current, low noise, class A/B output, +/-150V, 100mA, TO-3-8	598-1442-ND	560.64	316.54	PA83M
FET input, low bias current, low noise, class A/B output, +/-150V, 100mA, TO-3-8	598-1443-ND	718.77	405.81	PA83M/883
High voltage, 600V/uS slew rate, FET input, wide supply voltage range, +/-150V, TO-3-8	598-1444-ND◆	300.39	162.86	PA84A
High voltage, 200V/uS slew rate, FET input, wide supply voltage range, +/-150V, TO-3-8	598-1446-ND	707.81	429.19	PA84M/883
MOSFET, 1000V/uS slew rate, high output current, +/-225V, 200mA, TO-3-8	598-1326-ND◆	309.69	167.94	PA85
MOSFET, 1000V/uS slew rate, high output current, +/-225V, 200mA, TO-3-8	598-1327-ND◆	368.51	199.85	PA85A
MOSFET, high output current, low bias current, +/-225V, 100mA, TO-3-8	598-1328-ND◆	279.00	151.27	PA88
High voltage, MOSFET amp, high output current, 450V, 100mA, TO-3-8	598-1447-ND◆	362.70	196.65	PA88A
Ultra high voltage, MOSFET op amp, programmable current limit, +/-600V, 75mA, MO-127-12	598-1448-ND◆	1151.75	716.99	PA89A
300V/uS slew rate, high current MOSFET output, +/-200V, 200mA, 12-SIP	598-1330-ND	212.74	115.33	PA90
300V/uS slew rate, high current MOSFET output, +/-225V, 200mA, 12-SIP	598-1331-ND	249.47	135.31	PA91
MOSFET, low quiescent current, high output current, +/-200V, 4A, 12-SIP	598-1332-ND	267.22	144.89	PA92
MOSFET, low quiescent current, high output current, +/-200V, 8A, 12-SIP	598-1333-ND	305.74	165.79	PA93
MOSFET, 500V/uS slew rate, high output current, +/-450V, 100mA, 8-SIP	598-1334-ND	260.56	141.30	PA94
MOSFET, low quiescent current, high output current, +/-450V, 100mA, 8-SIP	598-1335-ND	239.32	129.78	PA95
Small signal amplifier plus power booster, 250V/uS slew rate, 300V, 1.5A, TO-3-8	598-1449-ND	256.84	126.95	PA96CE
MOSFET, low quiescent current, high output current, +/-450V, 10mA, 7-SIP	598-1336-ND	214.46	106.32	PA97DR
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 7-DDPAK	598-1354-ND◆	35.33	18.78	PA240CC
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-220-7	598-1355-ND◆	35.33	18.78	PA240CX
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-3-8	598-1356-ND◆	71.44	44.95	PA241CE
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-3-8	598-1431-ND◆	83.03	59.80	PA241CEA
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-3-8	598-1432-ND	162.28	116.87	PA241CEM
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 24-PSOP	598-1357-ND◆	41.54	22.07	PA241DF
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 10-SIP	598-1358-ND	71.44	44.95	PA241DW

◆ ***RoHS Compliant***

(Continued)

Amplifiers

High Voltage Power Op Amps *(Cont.)*

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 10-SIP	598-1397-ND	83.03	59.80	PA241DWA
High voltage power dual op amp, monolithic MOS technology, low quiescent current, +/-175V, 120mA, 24-PSOP	598-1359-ND◆	75.98	47.81	PA243DF

◆ ***RoHS Compliant***

Power Dual Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1343-ND◆	89.14	64.19	PA74
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1344-ND◆	95.62	68.85	PA74A
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1345-ND	170.14	131.22	PA74M
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1349-ND◆	89.14	64.19	PA76
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1350-ND◆	95.55	68.82	PA76A
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, 7-DDPAK	598-1346-ND	21.70	10.39	PA75CC
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7	598-1347-ND	21.70	10.39	PA75CD
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7 (S)	598-1348-ND	23.75	11.35	PA75CX

◆ ***RoHS Compliant***

Video Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1298-ND◆	325.04	176.27	PA09
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1299-ND◆	380.29	206.23	PA09A
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1300-ND	705.31	439.08	PA09M
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1424-ND	904.23	562.94	PA09M/883
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1311-ND	399.69	231.62	PA119CE
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1312-ND	519.39	301.04	PA119CEA

◆ ***RoHS Compliant***

Power Booster Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High voltage, 50V/uS slew rate, 160kHz power bandwidth, +/-100V, 2A, TO-3-8	598-1338-ND◆	159.57	86.55	PB50
High voltage, 50V/uS slew rate, 320kHz power bandwidth, +/-150V, 1.5A, 12-SIP	598-1339-ND	198.09	107.38	PB51
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, 12-SIP	598-1451-ND◆	198.09	107.38	PB58
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, TO-3-8	598-1341-ND◆	245.13	132.90	PB58A

◆ ***RoHS Compliant***

Pulse Width Modulation Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
200kHz, 3 protection circuits, sync or ext osc, 200Vs, 16Vcc, 20A, MO-127-12	598-1364-ND◆	816.68	508.43	SA12
H-bridge motor driver/amp, PWM, self-contained low/high side drive circuitry, 80Vs, 16Vcc, 15A, 12-Pin SIP	598-1365-ND	234.83	127.30	SA60
High voltage, high current, 2KW output capability, variable switching frequency, 100V, 20A, 58-Pin DIP	598-1416-ND	250.70	—	MSA240KC
High voltage, high current, 9KW output capability, variable switching frequency, 450V, 20A, 58-Pin DIP	598-1417-ND	299.48	—	MSA260KC
Full-bridge PWM amplifier, lowside and highside switches, 80V, 7A, TO-3-8	598-1454-ND	470.24	297.33	SA50CE
Fully integrated, 2 half-bridges, DC brush motor driver, 8.5V ~ 60V, 5A continuous, 64P Power QFP	598-1485-ND◆	22.30	10.66	SA57-IHZ
Fully integrated, 3 half-bridges, 3 phase brushless DC motor driver, 8.5V ~ 60V, 5A continuous, 64P Power QFP	598-1486-ND◆	28.06	14.91	SA306-IHZ
Fully integrated, 3 half-bridges, 3 phase brushless DC motor driver, 8.5V ~ 60V, 3A continuous, 64P Power QFP	598-1784-ND◆	23.95	12.40	SA303-IHZ
Fully integrated, 2 half-bridges, DC brush motor driver, 8.5V ~ 60V, 3A continuous, 64P Power QFP	598-1785-ND◆	19.65	10.12	SA53-IHZ
Full-bridge output, 5V ~ 40V, 5A continuous, 18-Pin DIP	598-1792-ND◆ ***NEW!***	542.94	—	SA09

◆ ***RoHS Compliant***

Amplifier Accessories

Sockets

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Socket, TO-3-8	598-1384-ND◆	35.21	18.72	MS03
Socket, 12-DIP	598-1386-ND◆	55.44	33.13	MS05

Description	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Cirrus Logic Part No.
Pin Receptacle for .032 ~ .046 Diameter Pins	598-1383-ND◆	8	17.30	MS02
Pin Receptacle for .048 ~ .064 Diameter Pins	598-1385-ND◆	12	32.40	MS04
Mating Socket for .015 ~ .025 Diameter Pins	598-1387-ND	2	10.80	MS06
Pin Receptacle for .025 ~ .037 Diameter Pins	598-1478-ND	30	22.23	MS11

◆ ***RoHS Compliant***

Heatsinks

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Heatsink, TO-3	598-1367-ND◆	30.53	16.23	HS01
Heatsink, TO-3	598-1368-ND◆	34.74	18.46	HS02
Heatsink, TO-3	598-1369-ND◆	66.79	42.03	HS03
Heatsink, PDIP	598-1370-ND◆	73.42	46.19	HS06
Heatsink, TO-3	598-1371-ND◆	11.66	5.17	HS09
Heatsink, TO-220	598-1375-ND	4.05	1.62	HS22
Heatsink, Modular Package	598-1377-ND◆	151.41	109.04	HS26
Heatsink, TO-3	598-1472-ND◆	85.60	—	HS04
Heatsink, TO-3	598-1473-ND◆	61.69	—	HS13
Heatsink, PDIP	598-1474-ND◆	92.56	—	HS18
Heatsink, SIP	598-1475-ND◆	25.48	—	HS27
Heatsink, TO-220	598-1476-ND◆	45.56	—	HS29
Heatsink for DK and HQ Packages	598-1739-ND◆ ***NEW!***	11.56	5.41	HS33
Clamp, TO-220	598-1482-ND◆	2.15	—	CLAMP04

◆ ***RoHS Compliant***

Thermal Washers

Description	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Cirrus Logic Part No.
Thermal Washer, TO-3	598-1378-ND	10	20.55	TW03
Thermal Washer, PSIP	598-1379-ND	10	34.29	TW07
Thermal Washer, SIP	598-1382-ND	10	32.40	TW13
Thermal Washer, DIP	598-1479-ND	10	14.95	TW05
Thermal Washer, DIP	598-1480-ND	10	19.05	TW09
Thermal Washer, TO-220	598-1481-ND	10	13.91	TW14

Demonstration Boards

DB62 Demonstration Board for SA305EX

The DB62 is designed to demonstrate the capabilities of the SA305EX as a 3 phase brushless DC motor driver IC. The PWM inputs to the SA305 are controlled by an on-board microcontroller. The EVAL49 board is pre-wired for all required and recommended external components.

598-1394-ND (DB62) **$269.24**

DB63R Demonstration Board for SA57-IHZ

The DB63R is designed to demonstrate the capabilities of the SA57 DC brush motor driver IC. This fully assembled demonstration allows the user to directly control the speed and direction of the motor. An onboard circuit controls the direction and provides four quadrant PWM signals to control the power outputs of the SA57. LEDs provide feedback for motor control status and fault indications. Provisions on the DB63R allow the user to bypass the onboard control circuit and directly interface with the SA57 motor driver.

598-1487-ND (DB63) **$149.34**

APEX PRECISION POWER Product Innovation From CIRRUS LOGIC

Evaluation Kits

EK01
Evaluation Kit for SA01

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA01 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations. The board is designed for surface mounting all components except the switching amplifier.

Note: Amplifier not included

598-1455-ND (EK01) **$65.63**

EK07
Evaluation Kit for SA07

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA07 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

Note: Amplifier not included

598-1457-ND (EK07) **$93.19**

EK09 Evaluation Kit for TO-3 and MO-127 Packages

This kit provides a solid mechanical platform with good shielding and grounding to breadboard eight pin TO-3 packages or the MO-127 package with 0.060" pins. This kit is intended as an alternate for kits dedicated to specific amplifiers. Construction will involve surface mounting and 3D techniques. Holes are provided to mount standard banana and BNC connectors f.or I/O.

Note: Amplifier not included

598-1389-ND (EK09) **$85.31**

EK11
Evaluation Kit for PA91

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the PA91 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

Note: Amplifier not included

598-1458-ND (EK11) **$52.50**

EK13
Evaluation Kit for PA241DF

Fast and easy breadboarding of circuits using the PA241DF is possible with the EK13 evaluation board. The amplifier may be surface mounted directly to the PC board. The PA241DF is soldered to a 2-square inch area of foil on the PC board for heatsinking. This foil heatsink is connected to -Vs. Connections are provided for required power supply bypassing, phase compensation and a current limiting resistor. A large area for component mounting provides flexibility and makes a multitude of circuit configurations possible.

Note: Amplifier not included

598-1459-ND (EK13) **$40.69**

EK15
Evaluation Kit for SA08

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA08 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations. Only components unique to the EK15 are provided with this kit.

Note: Amplifier not included

598-1460-ND (EK15) **$200.81**

EK16
Evaluation Kit for PA92/PA93

This easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the PA92/PA93 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing, compensation, and current limiting are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the circuit board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

Note: Amplifier not included

598-1390-ND (EK16) **$122.06**

EK17
Evaluation Kit for SA12

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA12 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations. Only components unique to the EK17 are provided with this kit.

Note: Amplifier not included

598-1461-ND (EK17) **$161.70**

EK19
Evaluation Kit for PA94/PA95

This easy-to-use kit provides a platform for the evaluation of linear power amplifier circuits using the PA94/PA95 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

Note: Amplifier not included

598-1462-ND (EK19) **$38.06**

EK26
Evaluation Kit for PA60EU

Fast, easy breadboarding of circuits using the PA60EU are possible with the PB80 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing. The amplifier may be mounted horizontally or vertically. Components are labeled on both sides of the board for ease in probing.

Note: Amplifier not included

598-1463-ND (EK26) **$28.88**

EK27
Evaluation Kit for PA50

This easy-to-use kit provides a platform for the evaluation of linear power amplifier circuits using the PA50/PA52 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and terminal pads at the edges of the circuit board. The terminal pads are suitable for standard banana jacks or direct soldering of wires.

Note: Amplifier not included

598-1464-ND (EK27) **$248.20**

EK29
Evaluation Kit for Power Booster

This easy-to-use kit provides a platform for the evaluation of the PB51 high voltage power boosters. The PB51 is designed most commonly with a small signal, general purpose op amp. However they can also be used without a driver amplifier. This kit can be used to analyze a multitude of standard or proprietary circuit configurations.

Note: Amplifier not included

598-1466-ND (EK29) **$54.56**

EK33
Evaluation Kit for PA75CX

Fast, easy breadboarding of circuits using PA75CX or PA35CX is possible with the EK33 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing. Components are labeled on both sides of the board for ease in probing. This kit is not suitable for PA75CC, PA75CD, PA35CC or PA35CD.

Note: Amplifier not included

598-1467-ND (EK33) **$82.98**

EK50
Evaluation Kit for PB50/PB58 Power Boosters

This easy-to-use kit provides a platform for the evaluation of the PB50 and PB58 high voltage power boosters. The PB50 and PB58 are designed most commonly in combination with a small signal, general purpose op amp. However, they can also be used to analyze a multitude of standard or proprietary circuit configurations.

Note: Amplifier not included

598-1392-ND (EK50) **$66.50**

EK56
Evaluation Kit for MSA240/MSA260

This fast, easy-to-use kit provides a platform for the evaluation of the PWM circuits using the MSA240KC/MSA260KC pin-out. With ample breadboarding area it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for the power supply bypassing are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and banana jacks at the edge of the circuit board.

Note: Amplifier not included

598-1469-ND (EK56) **$200.64**

(Continued)

Evaluation Kits *(Cont.)*

EK57
Evaluation Kit for MP108FD/MP111FD

This fast, easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the MP108FD and MP111FD pin-out. With ample breadboarding area it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and banana jacks at the edges of the circuit board. The terminal pads are suitable for soldering standard banana jacks or direct wiring of wires. Additionally, banana jacks and a BNC connector can be inserted into the holes at the edge of the board and wired to the numbered terminal pads.

Note: Amplifier not included

598-1470-ND (EK57) **$129.94**

EK60
Evaluation Kit for PA78

The EK60 evaluation kit is designed to provide a convenient way to breadboard design ideas for the PA78EU power operational amplifiers. The EVAL60 evaluation board is pre-wired for all required and recommended external components including the ones for power supply bypassing, compensation and current limiting. The EVAL60 also includes a breadboard area for constructing your application circuit with provisions for a preamplifier to drive the PA78 inputs.

Note: Amplifier not included

598-1395-ND (EK60) **$148.75**

EK61
Evaluation Kit for PA78DK and PA79DK

Fast and easy breadboarding of circuits using the PA78DK or PA79DK is possible with the EK61 evaluation kit. The EK61 includes both the universal EVAL36 board and the EVAL61 substrate. The use of EVAL36 and EVAL61 allows for a large area of breadboarding space to work with while allowing a surface mount substrate for the PA78DK or PA79DK.The PA78DK or PA79DK amplifier may be surface mounted directly to the EVAL61, a thermally conductive but electrically isolated substrate. The PA78DK or PA79DK is soldered to a DUT foil footprint area the size of the heatslug. The metal substrate is cost effective and can allow the PA78DK or PA79DK to dissipate power up to the data sheet rating.

Note: Amplifier not included

598-1398-ND (EK61) **$70.75**

EK62
Evaluation Kit for SA305EX 3-Phase Motor Driver

The EK62 evaluation kit is designed to provide a convenient way to breadboard design ideas for the SA305EX. The PB119 evaluation board is pre-wired for all required external components including the ones for power supply bypassing and current sensing. The PB119 also includes a breadboard area for constructing your application circuit.

Note: Amplifier not included

598-1393-ND (EK62) **$221.11**

Precision Voltage References

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
±10V output, ±0.5mV accuracy, 14-DIP (ceramic)	598-1770-ND	114.39	79.57	VRE102C
+4.5V output, ±0.4mV accuracy, 14-DIP (ceramic)	598-1771-ND	115.65	80.44	VRE104C
+2.5V output, ±200µV accuracy, 20-LCC (ceramic)	598-1772-ND	113.18	78.73	VRE202C
+2.5V output, ±0.25mV accuracy, 8-SMT	598-1773-ND	102.67	71.43	VRE3025AS
+5V output, ±0.5mV accuracy, 8-SMT	598-1774-ND	89.71	62.40	VRE3050AS
+5V output, ±0.8mV accuracy, 8-SMT	598-1775-ND	62.95	38.26	VRE3050BS
+5V output, ±0.5mV accuracy, 8-SMT	598-1776-ND	89.71	62.40	VRE305AS
+10V output, ±2.0mV accuracy, 8-SMT	598-1777-ND	54.42	31.42	VRE310CS

Programmable Digital Filters

The QF1D512 is a single channel, programmable digital filter designed for seamless insertion in the serial data path of a digital signal or used as an FIR coprossesor. The circuit shows the QF1D512 operating between an ADC and an MCU. The device can be programmed using the Quickfilter Design Software which supports most FIR digital filter configurations. The FIR filter has 512 taps capable of generating "brick wall" filters such as a low pass filter with a 1kHz cutoff frequency, 140dB of rejection, and a total transition band of only 10Hz. The filter can operate over a broad range of ADC data rates - from 10sps up to 500ksps and can support ADCs with resolutions ranging from 12 ~ 24 bits.

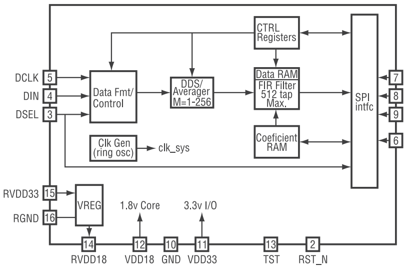

The QF4A512 Programmable Signal Converter is a 4-channel, signal conditioner and signal converter. Each channel can be individually programmed for the gain, anti-aliasing filter cutoff frequency, A ~ D sampling frequency, and unique filter requirements. This is accomplished with 4 separate high-precision 512-tap FIR filters. Quickfilter software has been created for rapid device configuration and filter design at performance levels unattainable with analog components.

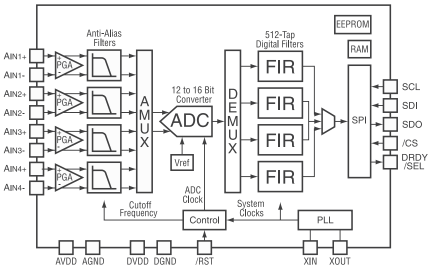

Description	Digi-Key Part No.	Price Each 1	25	Quickfilter Technologies Part No.
IC SavFIRe™ Digital Filter 1-Channel 16-QFN	686-1001-1-ND◆†	2.23	1.52	QFN1D512-QN-T
IC SavFIRe Digital Filter 1-Channel 16-QFN	686-1001-2-ND◆‡	1151.45/1,000		QFN1D512-QN-T
IC Programmable Signal Conv. 4-Ch. 32-LQFP	686-1002-ND◆	13.33	10.49	QF4A512A-LQ-B
Development Kit for QF1D512	686-1003-ND◆	199.00	—	QF1D512-DK
Development Kit for QF4A512	686-1004-ND◆	199.00	—	QF4A512-DK
Programmable Adapter for QF4A512-DK	686-1005-ND	180.53	—	QF4A512-PA
Board MSP-MOJO and Expansion Header	686-1006-ND◆	39.95	—	QF1D512-EZ430
Prototyping Adapter for QF1D512	686-1007-ND◆	21.28	—	QF1D512-DIPSTER
IC SavFIRe Digital Filter 16-QFN	686-1009-1-ND◆†	2.23	1.52	QF1DA512-QN-T
IC SavFIRe Digital Filter 16-QFN	686-1009-2-ND◆‡	1151.45/1,000		QF1DA512-QN-T
Development Kit for QF1DA512	686-1010-ND◆	199.00	—	QF1DA512-DK

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Video Enhancement Processors

The EVD1000 Series of ICs are a single-chip solution providing sophisticated enhancement capabilities in a remarkably compact, easily-integrated package with no external memory or FPGAs required. The EVD1000 series features a convolution kernel with hundreds of pixels on a side. This means that when EVD enhances a pixel, more than 10,000 of its nearest neighbors are considered. By considering the spatial data in a large neighborhood centered around each pixel as it is being processed, a much larger range of spatial frequencies in the image is allowed. Packaged in a compact 128-pin TQFP (thin quad flatpack) case, these chips use about 1/4 square inch of circuit board real estate and can accept a wide array of digital data formats including YCrCb, RGB, and BT656. 10-bit data paths produce faithful results, and the device is also configurable for 8-bit applications.

Description	Digi-Key Part No.	Price Each 1	10	Enhanced Video Devices Part No.
Development Kit for DKA-ANALOG	868-1000-ND	159.60	—	801-6209-0
Development Kit for DKD-DIGITAL	868-1001-ND	118.75	—	801-6211-0
Video Clarifier for EVD1000	868-1002-ND◆	25.00	24.00	312-1000-0
Video Clarifier for EVD1500	868-1003-ND◆	30.00	28.80	312-1500-0

◆ ***RoHS Compliant***

STATIC PROTECTION

Protection of static sensitive parts is a MUST in today's semiconductor market. To ensure the quality that Digi-Key customers have come to expect, the Digi-Key static control program includes proper static safety protection in the following areas:

- ***Receiving, Incoming Inspection, and QC***
- ***Order Picking***
- ***Final Inspection***
- ***Packaging and Shipping***

Shielded metallized bags are used in order picking, and 100% recyclable paper packaging is used in packaging and shipping.

As our program is continuously updated with the latest static control technology, you can be reassured that Digi-Key's static sensitive parts are quality safe, *all the way to your door step!*

• Please Note: SO-x packages are the same as x-SOIC packages •

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

ANALOG DEVICES Digi-Reel® **AMPLIFIERS**

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Audio/Video					
AD813ARZ-14-ND	Triple Video Amp Single Low Power*	14-SOIC	9.36	7.49	6.32
AD828ANZ-ND	Op Amp Video Dual Low Power*	8-Dip	5.60	4.49	3.49
AD828ARZ-ND	Op Amp Video Dual Low Power*	8-SOIC	5.60	4.49	3.49
AD830ANZ-ND	Video Differential Amp High Speed*	8-Dip	6.08	4.87	4.11
AD830ARZ-ND	Video Differential Amp High Speed*	8-SOIC	6.08	4.87	4.11
AD830JRZ-R7CT-ND	Video Differential Amp High Speed*	8-SOIC	6.08	4.87	4.11
AD830JRZ-R7TR-ND	Video Differential Amp High Speed*	8-SOIC	2895.60/750		
AD8013ARZ-14-ND	Triple Video Amp*	14-SOIC	9.76	7.81	6.59
AD8023ARZ-ND	Triple Video Amp, High Current Output*	14-SOIC	8.66	7.80	6.92
AD8073JRZ-ND	Triple Video Amp*	14-SOIC	5.00	4.00	3.11
AD8074ARUZ-ND	High Speed Triple Video Buffer*	16-TSSOP	5.09	4.07	3.17
AD8074Z-EVAL-ND	Evaluation Board for AD8074*	—	85.39	—	—
AD8075ARUZ-ND	Triple Video Buffer High Speed*	16-TSSOP	5.09	4.07	3.17
AD8075Z-EVAL-ND	Evaluation Board for AD8075*	—	85.39	—	—
AD8079ARZ-ND	Dual 260MHz Buffer*	8-SOIC	8.78	7.03	5.93
AD8079BRZ-ND	Dual 260MHz Buffer*	8-SOIC	8.78	7.03	5.93
OP275GPZ-ND	Op Amp Bipolar/JFET Audio*	8-Dip	2.43	1.94	1.46
OP275GSZ-ND	Op Amp Bipolar/JFET Audio*	8-SOIC	2.30	1.84	1.38
SSM2211CP-REEL7CT-ND	Audio Amp Low Distortion 1W	8-LFCSP	1.02	.85	.68
SSM2211SZ-ND	Audio Amp Low Distortion 1W*	8-SOIC	1.26	1.05	.84
SSM2301CPZ-REEL7CT-ND	Audio Amp Class-D 1.52W*	8-LFCSP	2.04	1.70	1.36
SSM2301CPZ-REEL7TR-ND	Audio Amp Class-D 1.52W*	8-LFCSP	1356.60/1,500		
SSM2301RMZ-REEL7CT-ND	Audio Amp Class-D Mono, 1.52W*	8-MSOP	1.35	1.13	.90
SSM2301RMZ-REEL7TR-ND	Audio Amp Class-D Mono, 1.52W*	8-MSOP	598.50/1,000		
SSM2301-MINI-EVALZ-ND	Evaluation Board for SSM2301-Mini*	—	54.28	—	—
SSM2302CPZ-REEL7CT-ND	Audio Amp Class-D Stereo*	16-LFCSP	2.30	1.84	1.38
SSM2302Z-EVAL-ND	Evaluation Board for SSM2302*	—	54.28	—	—
SSM2305CPZ-REEL7CT-ND	Audio Amp Class-D Mono, 2.8W*	8-LFCSP	1.83	1.46	1.10
SSM2305RMZ-REEL7CT-ND	Audio Amp Class-D Mono, 2.8W*	8-MSOP	1.50	1.20	.90
SSM2305RMZ-REEL7TR-ND	Audio Amp Class-D Mono, 2.8W*	8-MSOP	780.00/1,000		
SSM2305-EVALZ-ND	Evaluation Board for SSM2305*	—	54.28	—	—
SSM2306CPZ-REEL7CT-ND	Audio Amp Class-D Stereo, 2W*	16-LFCSP	2.48	1.98	1.49
SSM2311CBZ-REEL7CT-ND	Audio Amp Class-D Mono, 3.3W*	9-WLCSP	1.83	1.46	1.10
SSM2311-EVALZ-ND	Evaluation Board for SSM2311*	—	54.28	—	—
SSM2315-EVALZ-ND	Evaluation Board for SSM2315*	—	54.28	—	—
SSM2315CBZ-REEL7CT-ND	Audio Amp Class-D Mono, 3W*	9-WLCSP	2.05	1.64	1.23
SSM2315CBZ-REEL7TR-ND	Audio Amp Class-D Mono, 3W*	9-WLCSP	3148.80/3,000		
SSM2317-EVALZ-ND	Evaluation Board for SSM2317*	—	54.28	—	—
SSM2317-MINI-EVALZ-ND	Evaluation Board for SSM2317-Mini*	—	54.28	—	—
SSM2317CBZ-REEL7CT-ND	Audio Amp Class-D Mono, 3W*	9-WLCSP	2.28	1.82	1.37
Comparator					
AD790AQ-ND	Precision Comparator High Speed	8-Dip	12.66	11.40	10.11
AD790JNZ-ND	Precision Comparator High Speed*	8-Dip	7.42	5.94	5.01
AD790JRZ-ND	Precision Comparator High Speed*	8-SOIC	7.42	5.94	5.01
AD8210WYRZ-ND	High Voltage, Bidirectional Current Shunt Monitor*	8-SOIC	4.48	3.59	2.79
AD8210YRZ-ND	High Voltage, Bidirectional Current Shunt Monitor*	8-SOIC	4.07	3.26	2.54
AD8211YRJZ-RL7CT-ND	High Voltage Current Shunt Monitor*	SOT-23-5	2.03	1.62	1.22
AD8211YRJZ-RL7TR-ND	High Voltage Current Shunt Monitor*	SOT-23-5	3110.40/3,000		
AD8212YRMZ-R7CT-ND	High Voltage Current Shunt Monitor*	8-MSOP	2.33	1.86	1.40
AD8212YRMZ-R7TR-ND	High Voltage Current Shunt Monitor*	8-MSOP	1209.00/1,000		
AD8213YRMZ-R7CT-ND	Dual High Voltage Current Shunt Monitor*	10-MSOP	4.52	3.62	2.82
AD8213YRMZ-R7TR-ND	Dual High Voltage Current Shunt Monitor*	10-MSOP	2562.75/1,000		
AD8215YRZ-ND	High Voltage, Current Shunt Monitor*	8-SOIC	2.72	2.18	1.70
AD8465WBCPZ-WP-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS* ***NEW!***	12-LFCSP	5.96	4.77	4.03
AD8561ANZ-ND	Comparator Single 7nS*	8-Dip	4.01	3.21	2.50
AD8561ARUZ-ND	Comparator Single 7nS*	8-TSSOP	4.01	3.21	2.50
AD8561ARZ-ND	Comparator Single 7nS*	8-SOIC	4.01	3.21	2.50
AD8561ARZ-REEL7CT-ND	Comparator Single 7nS*	8-SOIC	4.01	3.21	2.50
AD8561ARZ-REEL7TR-ND	Comparator Single 7nS*	8-SOIC	2269.50/1,000		
AD8564ARZ-ND	Comparator Quad 7nS*	16-SOIC	7.46	5.97	5.04
AD8564ARUZ-REELCT-ND	Comparator Quad 7nS*	16-TSSOP	7.46	5.97	5.04
AD8564ARUZ-REELTR-ND	Comparator Quad 7nS*	16-TSSOP	11563.00/2,500		
AD8611ARZ-ND	Comparator Single 4nS High Speed*	8-SOIC	4.73	3.78	2.94
AD8611ARMZ-R2CT-ND	Comparator Single 4nS High Speed*	8-MSOP	5.24	4.20	3.27
AD8611ARMZ-R2TR-ND	Comparator Single 4nS High Speed*	8-MSOP	774.73/250		
AD8612ARUZ-ND	Comparator Dual 4nS Fast*	14-TSSOP	7.04	5.64	4.76
AD96687BPZ-ND	Comparator Dual 2.5nS*	20-PLCC	6.54	5.24	4.42
AD96687BQ-ND	Comparator Dual 2.5nS	16-Dip	10.06	9.06	8.04
AD96687BRZ-ND	Comparator Dual 2.5nS*	16-SOIC	5.96	4.77	4.03
ADCMP341YRJZ-REEL7CT-ND	Dual Comparator/Reference*	SOT-23-8	2.28	1.82	1.37
ADCMP341YRJZ-REEL7TR-ND	Dual Comparator/Reference*	SOT-23-8	3494.40/3,000		
ADCMP354YKSZ-REEL7CT-ND	Comparator, Open-Drain, High Voltage*	SC70-4	.81	.68	.54
ADCMP354YKSZ-REEL7TR-ND	Comparator, Open-Drain, High Voltage*	SC70-4	1053.00/3,000		
ADCMP361YRJZ-REEL7CT-ND	Comparator/Reference*	SOT-23-5	1.53	1.22	.92
ADCMP361YRJZ-REEL7TR-ND	Comparator/Reference*	SOT-23-5	2342.40/3,000		
ADCMP370AKSREELTR-ND	Comparator, Open-Drain, High Voltage	SC70-5	1131.00/3,000		
ADCMP370AKSZ-REEL7CT-ND	Comparator, Open-Drain, High Voltage*	SC70-5	.72	.60	.48
ADCMP370AKSZ-REEL7TR-ND	Comparator, Open-Drain, High Voltage*	SC70-5	936.00/3,000		
ADCMP371AKSZ-REEL7CT-ND	Comparator, Push-Pull*	SC70-5	.72	.60	.48
ADCMP371AKSZ-REEL7TR-ND	Comparator, Push-Pull*	SC70-5	936.00/3,000		
ADCMP551BRQZ-ND	Comparator, Single Supply, HS PECL/LVPECL*	16-QSOP	5.47	4.38	3.41
ADCMP552BRQZ-ND	Comparator, Single Supply, HS PECL/LVPECL*	20-QSOP	6.08	4.87	4.11
ADCMP553BRMZ-ND	Comparator, Single Supply, HS PECL/LVPECL*	8-MSOP	4.10	3.28	2.55
ADCMP562BRQZ-ND	Comparator Dual High Speed PECL*	20-QSOP	5.47	4.38	3.41

ANALOG DEVICES Digi-Reel® *(Cont.)* **AMPLIFIERS**

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADCMP563BRQZ-ND	Comparator Dual High Speed ECL*	16-QSOP	5.00	4.00	3.38
ADCMP564BRQZ-ND	Comparator Dual High Speed ECL*	20-QSOP	5.47	4.38	3.41
ADCMP565BPZ-ND	Comparator Dual Ultra-Fast*	20-PLCC	8.51	7.67	6.80
ADCMP566BCPZ-ND	Comparator Dual Ultra-Fast*	32-LFCSP	7.50	6.00	5.07
ADCMP567BCPZ-ND	Comparator Dual Ultra-Fast*	32-LFCSP	7.28	5.83	4.92
ADCMP572BCPZ-R2CT-ND	Comparator Single Ultra-Fast*	16-LFCSP	15.74	14.69	13.64
ADCMP572BCPZ-R2TR-ND	Comparator Single Ultra-Fast*	16-LFCSP	3343.69/250		
ADCMP573BCPZ-R2CT-ND	Comparator Single Ultra-Fast*	16-LFCSP	15.74	14.69	13.64
ADCMP573BCPZ-R2TR-ND	Comparator Single Ultra-Fast*	16-LFCSP	3343.69/250		
ADCMP580BCPZ-WP-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	15.66	14.10	12.51
ADCMP582BCPZ-R2CT-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	15.74	14.69	13.64
ADCMP582BCPZ-R2TR-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	3343.69/250		
ADCMP600BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-5	3.87	3.10	2.41
ADCMP600BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-5	6501.60/3,000		
ADCMP600BRJZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SOT-23-5	3.87	3.10	2.41
ADCMP600BRJZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SOT-23-5	6501.60/3,000		
ADCMP601BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-6	3.98	3.19	2.48
ADCMP601BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-6	6690.60/3,000		
ADCMP602BRMZ-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	8-MSOP	4.46	3.57	2.78
ADCMP603BCPZ-R7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	12-LFCSP	4.21	3.37	2.62
ADCMP603BCPZ-R7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	12-LFCSP	3576.38/1,500		
ADCMP604BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	SC70-6	4.91	3.93	3.06
ADCMP604BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	SC70-6	8240.40/3,000		
ADCMP605BCPZ-R7CT-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	12-LFCSP	5.36	4.29	3.34
ADCMP605BCPZ-R7TR-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	12-LFCSP	4551.75/1,500		
ADCMP606BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, CML*	SC70-6	4.91	3.93	3.06
ADCMP608BKSZ-REEL7CT-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	SC70-6	1.63	1.30	.98
ADCMP608BKSZ-REEL7TR-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	SC70-6	2496.00/3,000		
ADCMP609BRMZ-REEL7CT-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	8-MSOP	2.20	1.76	1.32
ADCMP609BRMZ-REEL7TR-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	8-MSOP	1144.00/1,000		
ADCMP670-1YUJZ-RL7CT-ND	Dual Low Power Comparator*	6-TSOT	2.79	2.24	1.74
ADCMP670-1YUJZ-RL7TR-ND	Dual Low Power Comparator*	6-TSOT	4687.20/3,000		
ADM4073FWRJZ-REEL7CT-ND	Current-Sense Amp, 50V/V*	SOT-23-6	2.15	1.72	1.29
ADM4073FWRJZ-REEL7TR-ND	Current-Sense Amp, 50V/V*	SOT-23-6	3302.40/3,000		
ADM4073HWRJZ-REEL7CT-ND	Current-Sense Amp, 100V/V*	SOT-23-6	2.15	1.72	1.29
ADM4073HWRJZ-REEL7TR-ND	Current-Sense Amp, 100V/V*	SOT-23-6	3302.40/3,000		
ADM4073FWRJZ-REEL7CT-ND	Current-Sense Amp, 20V/V*	SOT-23-6	2.15	1.72	1.29
ADM4073FWRJZ-REEL7TR-ND	Current-Sense Amp, 20V/V*	SOT-23-6	3302.40/3,000		
CMP04FSZ-ND	Comparator Quad Low Power*	14-SOIC	8.73	7.86	6.97
CMP401GSZ-ND	Comparator Low Voltage 23nS*	16-SOIC	6.22	4.98	4.20
CMP401GRUZ-REELCT-ND	Comparator Low Voltage 23nS*	16-TSSOP	5.90	4.72	3.99
CMP401GRUZ-REELTR-ND	Comparator Low Voltage 23nS*	16-TSSOP	9145.00/2,500		
CMP402GSZ-ND	Comparator Low Voltage 65nS*	16-SOIC	6.56	5.25	4.43
Differential					
ADA4950-1YCPZ-R7CT-ND	G=1,2,3 Differential ADC Driver* ***NEW!***	16-LFCSP	5.98	4.79	4.04
ADA4950-1YCPZ-R7TR-ND	G=1,2,3 Differential ADC Driver* ***NEW!***	16-LFCSP	5606.25/1,500		
ADA4950-2YCPZ-R7CT-ND	G=1,2,3 Differential ADC Driver* ***NEW!***	24-LFCSP	8.81	7.94	7.04
ADA4950-2YCPZ-R7TR-ND	G=1,2,3 Differential ADC Driver* ***NEW!***	24-LFCSP	9799.73/1,500		
AD8123ACPZ-R7CT-ND	Triple Diff. Receiver with Adj. Line Equalization*	40-LFCSP	13.13	11.82	10.49
AD8123ACPZ-R7TR-ND	Triple Diff. Receiver with Adj. Line Equalization*	40-LFCSP	7387.50/750		
AD8129ARMZ-ND	Differential Receiver Amp 270MHz*	8-MSOP	3.62	2.90	2.26
AD8129ARZ-ND	Differential Receiver Amp 270MHz*	8-SOIC	3.62	2.90	2.26
AD8130ARZ-ND	Differential Receiver Amp 270MHz High Speed*	8-SOIC	3.62	2.90	2.26
AD8130ARMZ-ND	Differential Receiver Amp 270MHz High Speed*	8-MSOP	3.62	2.90	2.26
AD8131ARZ-ND	Differential Driver 400MHz High Speed*	8-SOIC	4.21	3.37	2.62
AD8131ARMZ-ND	Differential Driver 400MHz High Speed*	8-MSOP	4.21	3.37	2.62
AD8131ARMZ-REEL7CT-ND	Differential Driver 400MHz High Speed*	8-MSOP	4.21	3.37	2.62
AD8131ARMZ-REEL7TR-ND	Differential Driver 400MHz High Speed*	8-MSOP	2384.25/1,000		
AD8133ACPZ-REEL7CT-ND	Triple Differential Driver with Output Pull-Down*	24-LFCSP	5.24	4.20	3.54
AD8138AARZ-ND	Low Distortion Differential ADC Driver* ***NEW!***	8-SOIC	5.15	4.13	3.21
AD8145YCPZ-R7CT-ND	Triple Differential Receiver with Comparators*	32-LFCSP	6.06	4.85	4.10
AD8145YCPZ-R7TR-ND	Triple Differential Receiver with Comparators*	32-LFCSP	5681.25/1,500		
AD8146ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	6.88	5.51	4.65
AD8146ACPZ-R2TR-ND	Triple Differential Driver*	24-LFCSP	1118.00/250		
AD8147ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	7.12	5.70	4.81
AD8148ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	7.36	5.89	4.97
AD8148ACPZ-R2TR-ND	Triple Differential Driver*	24-LFCSP	1196.00/250		
AD8202WYRZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-SOIC	4.01	3.21	2.50
AD8202YRMZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-MSOP	3.40	2.72	2.12
AD8202YRZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-SOIC	3.40	2.72	2.12
AD8203YRMZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-MSOP	3.08	2.47	1.92
AD8203YRZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-SOIC	3.08	2.47	1.92
AD8205YRZ-ND	42V System Differential Amp*	8-SOIC	3.40	2.72	2.12
AD8206YRZ-ND	42V System Differential Amp*	8-SOIC	3.08	2.47	1.92
AD8209WBRMZ-ND	45V Precision Differential Amp* ***NEW!***	8-MSOP	3.76	3.01	2.34
AD8216YRZ-R7CT-ND	65V Bidirectional Differential Amp*	8-SOIC	3.65	2.92	2.27
AD8216YRZ-R7TR-ND	65V Bidirectional Differential Amp*	8-SOIC	2065.50/1,000		
AD8276ARMZ-R7CT-ND	GP Unity Gain Differential Amp* ***NEW!***	8-MSOP	2.48	1.98	1.49
AD8276ARMZ-R7TR-ND	GP Unity Gain Differential Amp* ***NEW!***	8-MSOP	1287.00/1,000		
AD8276ARZ-ND	GP Unity Gain Differential Amp* ***NEW!***	8-SOIC	2.32	1.86	1.45
AD8276BRMZ-R7CT-ND	GP Unity Gain Differential Amp* ***NEW!***	8-MSOP	3.40	2.72	2.12
AD8276BRMZ-R7TR-ND	GP Unity Gain Differential Amp* ***NEW!***	8-MSOP	1925.25/1,000		
AD8276BRZ-ND	GP Unity Gain Differential Amp* ***NEW!***	8-SOIC	3.40	2.72	2.12
AD8279ARZ-ND	Low Power Differential Amp* ***NEW!***	14-SOIC	3.76	3.01	2.34
AD8279BRZ-ND	Low Power Differential Amp* ***NEW!***	14-SOIC	5.51	4.41	3.43
AD8324ACPZ-ND	3.3V Cable Line Driver*	20-LFCSP	3.96	3.17	2.47
AD8328ARQZ-ND	5V Cable Line Driver*	20-QSOP	4.57	3.66	2.85
AD8390ACPZ-REEL7CT-ND	Voltage Feedback Differential Amp*	16-LFCSP	5.15	4.13	3.21
AD8390ACPZ-REEL7TR-ND	Voltage Feedback Differential Amp*	16-LFCSP	4379.63/1,500		
AD8396ACPZ-R7CT-ND	Low Power, Dual Port ADSL/ADSL2+ Line Driver*	16-LFCSP	4.43	3.55	2.76
ADA4505-1ARJZ-R2CT-ND	R/R I/O, Zero-In. Crossover Distortion Amp* ***NEW!***	SOT-23-5	1.95	1.56	1.17
ADA4505-1ARJZ-R2TR-ND	R/R I/O, Zero-In. Crossover Distortion Amp* ***NEW!***	SOT-23-5	273.00/250		
ADA4505-2ACBZ-R7CT-ND	R/R I/O, Zero-Input Crossover Distortion Amp*	8-WLCSP	1.68	1.34	1.01
ADA4505-2ACBZ-R7TR-ND	R/R I/O, Zero-Input Crossover Distortion Amp*	8-WLCSP	2572.80/3,000		
ADA4505-2ARMZ-RLCT-ND	R/R I/O, Zero-Input Crossover Distortion Amp*	8-MSOP	1.73	1.38	1.04
ADA4505-2ARMZ-RLTR-ND	R/R I/O, 0-In. Crossover Distortion Amp*	8-MSOP	2649.60/3,000		
ADA4505-4ACBZ-R7CT-ND	R/R I/O, 0-In. Crossover Distortion Amp* ***NEW!***	14-WLCSP	2.27	1.82	1.42
ADA4505-4ACBZ-R7TR-ND	R/R I/O, 0-In. Crossover Distortion Amp* ***NEW!***	14-WLCSP	3817.80/3,000		
ADA4505-4ARUZ-ND	R/R I/O, 0-In. Crossover Distortion Amp*	14-TSSOP	2.34	1.88	1.46

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADA4927-1YCPZ-R7CT-ND	Ultralow Distortion Current Feedback Differential ADC Driver*	16-LFCSP	7.58	6.07	5.12
ADA4927-1YCPZ-R7TR-ND	Ultralow Distortion Current Feedback Differential ADC Driver*	16-LFCSP	7106.25/1,500		
ADA4927-2YCPZ-R2CT-ND	Ultralow Distortion Current Feedback Differential ADC Driver*	24-LFCSP	11.31	10.19	9.04
ADA4927-2YCPZ-R2TR-ND	Ultralow Distortion Current Feedback Differential ADC Driver*	24-LFCSP	2164.31/250		
ADA4932-1YCPZ-R7CT-ND	Low Power Differential ADC Driver*	16-LFCSP	5.90	4.72	3.99
ADA4932-1YCPZ-R7TR-ND	Low Power Differential ADC Driver*	16-LFCSP	5531.25/1,500		
ADA4932-2YCPZ-R2CT-ND	Low Power Differential ADC Driver*	24-LFCSP	9.48	8.54	7.57
ADA4932-2YCPZ-R2TR-ND	Low Power Differential ADC Driver*	24-LFCSP	1813.69/250		
ADA4937-2YCPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver*	24-LFCSP	9.48	8.54	7.57
ADA4937-2YCPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver*	24-LFCSP	10540.73/1,500		
ADA4938-1ACPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver*	16-LFCSP	7.58	6.07	5.12
ADA4938-1ACPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver*	16-LFCSP	7106.25/1,500		
ADA4938-2ACPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver*	24-LFCSP	9.48	8.54	7.57
ADA4938-2ACPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver*	24-LFCSP	10540.73/1,500		
ADA4941-1YCPZ-R7CT-ND	Single Supply, Differential 18-Bit ADC Driver*	8-LFCSP	5.45	4.36	3.39
ADA4941-1YCPZ-R7TR-ND	Single Supply, Differential 18-Bit ADC Driver*	8-LFCSP	4628.25/1,500		
ADN4661BRZ-ND	3V LVDS Single Differential Line Driver*	8-SOIC	1.75	1.40	1.05
ADN4662BRZ-ND	3V LVDS Single Differential Line Receiver*	8-SOIC	1.75	1.40	1.05
ADN4663BRZ-ND	3V LVDS Dual Differential Line Driver*	8-SOIC	2.05	1.64	1.23
ADN4664BRZ-ND	3V LVDS Dual Differential Line Receiver*	8-SOIC	2.05	1.64	1.23
ADN4667ARUZ-REEL7CT-ND	3V LVDS Quad Differential Line Driver*	16-TSSOP	2.61	2.09	1.63
ADN4667ARZ-ND	3V LVDS Quad Differential Line Driver*	16-SOIC	2.61	2.09	1.63
ADN4668ARUZ-ND	3V LVDS Quad CMOS Differential Line Receiver*	16-TSSOP	2.61	2.09	1.63
ADN4668ARZ-ND	3V LVDS Quad CMOS Differential Line Receiver*	16-SOIC	2.61	2.09	1.63
General Purpose					
AD684JQ-ND	Sample/Hold Amp Quad	16-CDip	57.51	53.68	49.85
AD684SQ-ND	Sample/Hold Amp Quad	16-CDip	225.75	210.70	195.65
AD708AQ-ND	Op Amp Dual Low Offset Voltage	8-Dip	9.26	7.41	6.26
AD708BQ-ND	Op Amp Dual Low Offset Voltage	8-CDip	13.01	11.72	10.39
AD708JNZ-ND	Op Amp Dual Low Offset Voltage*	8-Dip	6.08	4.87	4.11
AD712AQ-ND	Precision Op Amp Dual BiFET	8-Dip	9.20	8.28	7.35
AD712JNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	3.89	3.12	2.43
AD712JRZ-ND	Precision Op Amp Dual BiFET*	8-SOIC	3.89	3.12	2.43
AD712KNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	6.92	5.54	4.68
AD712KRZ-ND	Precision Op Amp Dual BiFET*	8-SOIC	6.62	5.30	4.47
AD713AQ-ND	Precision Op Amp Quad BiFET	14-Dip	11.86	10.68	9.47
AD713JNZ-ND	Precision Op Amp Quad BiFET*	14-Dip	9.10	7.28	6.15
AD713JRZ-16-ND	Precision Op Amp Quad BiFET*	16-SOIC	9.10	7.28	6.15
AD743JRZ-16-ND	Op Amp BiFET Low Noise*	16-SOIC	9.94	7.96	6.71
AD744JNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	5.09	4.07	3.17
AD744KNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	6.44	5.16	4.35
AD744KRZ-ND	Precision Op Amp BiFET Mono*	8-SOIC	7.10	5.68	4.80
AD746JNZ-ND	Precision Op Amp BiFET Dual*	8-Dip	8.24	6.60	5.57
AD746JRZ-ND	Precision Op Amp BiFET Dual*	8-SOIC	8.24	6.60	5.57
AD781JNZ-ND	Sample and Hold Amp 700nS*	8-Dip	12.68	11.42	10.13
AD817AN-ND	Op Amp High Speed Low Power	8-Dip	4.46	3.57	2.78
AD817ANZ-ND	Op Amp High Speed Low Power*	8-Dip	4.05	3.24	2.52
AD817ARZ-ND	Op Amp High Speed Low Power*	8-SOIC	4.05	3.24	2.52
AD820ARMZ-ND	Op Amp Low Pwr Rail-to-Rail, FET-Input* ***NEW!***	8-MSOP	3.96	3.17	2.47
AD825AR-ND	Op Amp JFET High Speed	8-SOIC	4.64	3.71	2.89
AD825ARZ-ND	Op Amp JFET High Speed*	8-SOIC	4.23	3.39	2.64
AD827JNZ-ND	Op Amp Dual High Speed Low Power*	8-Dip	9.45	8.51	7.55
AD827JRZ-16-ND	Op Amp Dual High Speed Low Power*	16-SOIC	9.45	8.51	7.55
AD842JNZ-ND	Op Amp Fast Settling Wideband High Output Current*	14-Dip	9.06	7.25	6.12
AD843JNZ-ND	Op Amp Fast Settling High Speed*	8-Dip	9.66	7.73	6.53
AD843KNZ-ND	Op Amp Fast Settling High Speed*	8-Dip	10.98	8.79	7.42
AD845JNZ-ND	Op Amp Precision 16MHz*	8-Dip	7.20	5.76	4.86
AD845JRZ-16-ND	Op Amp Precision 16MHz*	16-SOIC	7.94	6.36	5.36
AD845KNZ-ND	Op Amp Precision 16MHz*	8-Dip	8.34	6.68	5.63
AD8015ARZ-ND	Transimpedance Amp*	8-SOIC	6.80	5.44	4.59
AD8017ARZ-ND	Amp, High Speed, Dual High Out*	8-SOIC	5.06	4.05	3.15
AD8214ARMZ-R7CT-ND	High Voltage Threshold Detector*	8-MSOP	1.90	1.52	1.14
AD8214ARMZ-R7TR-ND	High Voltage Threshold Detector*	8-MSOP	988.00/1,000		
AD8397ARZ-ND	Op Amp Rail-to-Rail High Output*	8-SOIC	5.22	4.18	3.25
AD8275ARMZ-R7CT-ND	Amp Diff. G=0.2, Level Translation*	8-MSOP	3.76	3.01	2.34
AD8275ARMZ-R7TR-ND	Amp Diff. G=0.2, Level Translation*	8-MSOP	2129.25/1,000		
AD8275BRMZ-R7CT-ND	Amp Diff. G=0.2, Level Translation*	8-MSOP	5.29	4.23	3.29
AD8275BRMZ-R7TR-ND	Amp Diff. G=0.2, Level Translation*	8-MSOP	2996.25/1,000		
AD8505ARJZ-R2CT-ND	Amp, R-R I/O Zero Input Crossover Distortion* ***NEW!***	SOT-23-5	2.08	1.66	1.25
AD8505ARJZ-R2TR-ND	Amp, R-R I/O Zero Input Crossover Distortion* ***NEW!***	SOT-23-5	290.50/250		
AD8506ACBZ-REEL7CT-ND	Amp, R-R I/O Zero Input Crossover Distortion*	8-WLCSP	1.78	1.42	1.07
AD8506ACBZ-REEL7TR-ND	Amp, R-R I/O Zero Input Crossover Distortion*	8-WLCSP	2726.40/3,000		
AD8506ARMZ-REELCT-ND	Amp, R-R I/O Zero Crossover Distortion*	8-MSOP	1.80	1.44	1.08
AD8506ARMZ-REELTR-ND	Amp, R-R I/O Zero Crossover Distortion*	8-MSOP	2764.80/3,000		
AD8508ARUZ-ND	Amp, R-R I/O Zero Input Crossover Distortion*	14-TSSOP	2.77	2.22	1.73
AD8515AKSZ-REEL7CT-ND	Op Amp 1.8V R-R In/Out Low Power*	SC70-5	.81	.68	.54
AD8515AKSZ-REEL7TR-ND	Op Amp 1.8V R-R In/Out Low Power*	SC70-5	1053.00/3,000		
AD8515ARTZREEL7CT-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	.96	.72	.53
AD8515ARTZREEL7TR-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	936.00/3,000		
AD8519AKSZ-REEL7CT-ND	Op Amp Rail-to-Rail 8MHz*	SC70-5	2.05	1.64	1.23
AD8519AKSZ-REEL7TR-ND	Op Amp Rail-to-Rail 8MHz*	SC70-5	3148.80/3,000		
AD8519ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail 8MHz*	SOT-23-5	2.05	1.64	1.23
AD8519ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail 8MHz*	SOT-23-5	3148.80/3,000		
AD8519ARZ-ND	Op Amp Rail-to-Rail 8MHz*	8-SOIC	2.25	1.80	1.35
AD8529ARZ-ND	Op Amp Dual Rail-to-Rail Out*	8-SOIC	2.72	2.18	1.70
AD8531ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	.92	.69	.52
AD8531ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	897.00/3,000		
AD8531ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	8-SOIC	.81	.68	.54
AD8531AKSZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	.78	.65	.52
AD8531AKSZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	1014.00/3,000		
AD8532ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1.29	1.08	.86
AD8532ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1677.00/3,000		
AD8532ARUZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-TSSOP	1.29	1.08	.86
AD8532ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.29	1.08	.86
AD8534ARUZ-ND	Op Amp Single Rail-to-Rail In/Out*	14-TSSOP	1.50	1.20	.90
AD8534ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	14-SOIC	1.50	1.20	.90
AD8541AKSZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	.78	.65	.52
AD8541AKSZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	1014.00/3,000		
AD8541ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	8-SOIC	.81	.68	.54
AD8541ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	.92	.69	.52
AD8541ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	897.00/3,000		
AD8542ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1.08	.90	.72
AD8542ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1404.00/3,000		
AD8542ARZ-REEL7CT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.08	.90	.72
AD8542ARZ-REEL7TR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	478.80/1,000		
AD8542ARUZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-TSSOP	1.08	.90	.72
AD8542ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.08	.90	.72
AD8544ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	1.30	1.04	.78
AD8544ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	1.30	1.04	.78
AD8551ARZ-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-SOIC	2.68	2.15	1.67
AD8551ARMZ-REELCT-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-MSOP	2.68	2.15	1.67
AD8551ARMZ-REELTR-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-MSOP	4498.20/3,000		
AD8552ARUZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	8-TSSOP	4.23	3.39	2.64
AD8552ARZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	8-SOIC	4.23	3.39	2.64
AD8554ARUZ-ND	Op Amp Quad Rail-to-Rail 0-Drift*	14-TSSOP	6.62	5.30	4.47
AD8554ARZ-ND	Op Amp Quad Rail-to-Rail 0-Drift*	14-SOIC	6.62	5.30	4.47
AD8565AKSZ-REEL7CT-ND	Op Amp 16V Rail-to-Rail In/Out*	SC70-5	1.40	1.12	.84
AD8565AKSZ-REEL7TR-ND	Op Amp 16V Rail-to-Rail In/Out*	SC70-5	2150.40/3,000		
AD8566ARMZ-R2CT-ND	Op Amp 16V Rail-to-Rail In/Out*	8-MSOP	3.51	2.81	2.19
AD8566ARMZ-R2TR-ND	Op Amp 16V Rail-to-Rail In/Out*	8-MSOP	518.70/250		
AD8567ACPZ-REEL7CT-ND	Op Amp 16V Rail-to-Rail*	16-LFCSP	2.40	1.92	1.44
AD8567ACPZ-REEL7TR-ND	Op Amp 16V Rail-to-Rail*	16-LFCSP	1872.00/1,500		
AD8567ARUZ-ND	Op Amp 16V Rail-to-Rail*	14-TSSOP	2.25	1.80	1.40
AD8571ARMZ-REELCT-ND	Op Amp Rail-to-Rail In/Out 0-Drift*	8-MSOP	2.52	2.02	1.57
AD8571ARMZ-REELTR-ND	Op Amp Rail-to-Rail In/Out 0-Drift*	8-MSOP	4233.60/3,000		
AD8571ARZ-ND	Op Amp Rail-to-Rail In/Out 0-Drift*	8-SOIC	2.52	2.02	1.57
AD8572ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	4.03	3.23	2.51
AD8574ARZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	14-SOIC	6.80	5.44	4.59
AD8574ARUZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	14-TSSOP	6.80	5.44	4.59
AD8592ARM-REELCT-ND	Op Amp Dual Rail-to-Rail with Shutdown	10-MSOP	1.26	1.05	.84
AD8592ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail with Shutdown*	10-MSOP	1.02	.85	.68
AD8592ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail with Shutdown*	10-MSOP	1326.00/3,000		
AD8594ARUZ-REELCT-ND	Op Amp Dual Rail-to-Rail with Shutdown*	16-TSSOP	1.50	1.25	1.00
AD8594ARUZ-REELTR-ND	Op Amp Dual Rail-to-Rail with Shutdown*	16-TSSOP	1625.00/2,500		
AD8594ARZ-ND	Op Amp Dual Rail-to-Rail with Shutdown*	16-SOIC	1.38	1.10	.83
AD8597ARZ-ND	Op Amp Single Ultralow Distortion*	8-SOIC	5.11	4.09	3.18
AD8601WDRTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out* ***NEW!***	SOT-23-5	.93	.78	.62
AD8601WDRTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out* ***NEW!***	SOT-23-5	1209.00/3,000		
AD8602ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.93	1.54	1.16
AD8602ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2956.80/3,000		
AD8603AUJZREEL7CT-ND	Op Amp CMOS Rail-to-Rail In/Out*	TSOT-23-5	1.70	1.36	1.02
AD8603AUJZREEL7TR-ND	Op Amp CMOS Rail-to-Rail In/Out*	TSOT-23-5	2611.20/3,000		
AD8604ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	2.34	1.88	1.46
AD8604ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	2.36	1.89	1.47
AD8605ACBZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	5-WLCSP	1.90	1.52	1.14
AD8605ACBZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	5-WLCSP	3891.20/4,000		
AD8605ARTZREEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	1.70	1.36	1.02
AD8605ARTZREEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	2611.20/3,000		
AD8606ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	2.79	2.24	1.74
AD8606ARMZREELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2.68	2.15	1.67
AD8606ARMZREELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	4498.20/3,000		
AD8607ARZ-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-SOIC	2.36	1.89	1.47
AD8607ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-MSOP	2.36	1.89	1.47
AD8607ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-MSOP	3969.00/3,000		
AD8608ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	3.67	2.94	2.29
AD8608ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	3.67	2.94	2.29
AD8609ARZ-ND	Op Amp Quad Rail-to-Rail CMOS*	14-SOIC	4.30	3.44	2.68
AD8609ARUZ-ND	Op Amp Quad Rail-to-Rail CMOS*	14-TSSOP	4.30	3.44	2.68
AD8614ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail for LCD*	SOT-23-5	2.61	2.09	1.63
AD8614ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail for LCD*	SOT-23-5	4384.80/3,000		
AD8616ARMZ-REELCT-ND	Op Amp Precision Dual R/R In/Out*	8-MSOP	3.06	2.45	1.91
AD8616ARMZ-REELTR-ND	Op Amp Precision Dual R/R In/Out*	8-MSOP	5140.80/3,000		
AD8617ACPZ-R2CT-ND	Op Amp Dual Rail-to-Rail In/Out* ***NEW!***	8-LFCSP	2.32	1.86	1.45
AD8617ACPZ-R2TR-ND	Op Amp Dual Rail-to-Rail In/Out* ***NEW!***	8-LFCSP	342.48/250		
AD8617ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1.88	1.50	1.13
AD8617ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2880.00/3,000		
AD8617ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.88	1.50	1.13
AD8617WARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2.38	1.90	1.43
AD8629ARMZ-REELCT-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-MSOP	3.40	2.72	2.12
AD8629ARMZ-REELTR-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-MSOP	5707.80/3,000		
AD8629ARZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-SOIC	3.40	2.72	2.12
AD8630ARUZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	14-TSSOP	5.64	4.52	3.81
AD8630ARZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	14-SOIC	5.64	4.52	3.81
AD8638ARJZ-REEL7CT-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out*	SOT-23-5	2.86	2.29	1.78
AD8638ARJZ-REEL7TR-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out*	SOT-23-5	4800.60/3,000		
AD8638ARZ-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out*	8-SOIC	2.95	2.36	1.84
AD8642ARMZ-REELCT-ND	Op Amp JFET Precision R/R Output*	8-MSOP	5.10	4.08	3.45
AD8642ARMZ-REELTR-ND	Op Amp JFET Precision R/R Output*	8-MSOP	9486.00/3,000		
AD8642ARZ-ND	Amp JFET Precision Rail-to-Rail Out*	8-SOIC	5.10	4.08	3.45
AD8643ACPZ-REEL7CT-ND	Amp JFET Precision Rail-to-Rail Out*	16-LFCSP	7.70	6.16	5.78
AD8643ACPZ-REEL7TR-ND	Amp JFET Precision Rail-to-Rail Out*	16-LFCSP	7218.75/1,500		
AD8643ARZ-ND	Amp JFET Precision Rail-to-Rail Out*	14-SOIC	8.36	6.69	5.65
AD8647ARMZ-REELCT-ND	Amp, 24MHz Rail-to-Rail with Shutdown*	10-MSOP	1.88	1.50	1.13
AD8647ARMZ-REELTR-ND	Amp, 24MHz Rail-to-Rail with Shutdown*	10-MSOP	2880.00/3,000		
AD8648ARUZ-ND	Amp Quad 24MHz Rail-to-Rail*	14-TSSOP	2.18	1.75	1.36
AD8648ARZ-ND	Amp Quad 24MHz Rail-to-Rail*	14-SOIC	2.18	1.75	1.36
AD8652ARMZ-REELCT-ND	Op Amp 50MHz, Dual Precision R/R*	8-MSOP	4.75	3.80	2.96
AD8652ARMZ-REELTR-ND	Op Amp 50MHz, Dual Precision R/R*	8-MSOP	7975.80/3,000		
AD8652ARZ-ND	Op Amp 50MHz, Precision CMOS*	8-SOIC	4.75	3.80	2.96
AD8661ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	2.50	2.00	1.56
AD8662ARMZ-REELCT-ND	Op Amp Rail-to-Rail Precision 16V*	8-MSOP	3.24	2.60	2.02
AD8662ARMZ-REELTR-ND	Op Amp Rail-to-Rail Precision 16V*	8-MSOP	5443.20/3,000		
AD8662ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	3.24	2.60	2.02
AD8663ACPZ-REEL7CT-ND	Op Amp Rail-to-Rail Precision 16V*	8-LFCSP	2.81	2.25	1.75
AD8663ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	2.79	2.24	1.74
AD8664ARUZ-ND	Op Amp Rail-to-Rail Precision 16V*	14-TSSOP	5.31	4.25	3.31
AD8664ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	14-SOIC	5.31	4.25	3.31
AD8665ARJZ-REEL7CT-ND	Op Amp 16V, 4MHz Rail-to-Rail*	SOT-23-5	2.18	1.74	1.31
AD8665ARJZ-REEL7TR-ND	Op Amp 16V, 4MHz Rail-to-Rail*	SOT-23-5	3340.80/3,000		
AD8665ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	8-SOIC	2.18	1.74	1.31
AD8666ARMZ-REELCT-ND	Op Amp 16V, 4MHz Rail-to-Rail Output	8-MSOP	2.43	1.94	1.46
AD8666ARMZ-REELTR-ND	Op Amp 16V, 4MHz Rail-to-Rail Output	8-MSOP	3724.80/3,000		
AD8666ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	8-SOIC	2.43	1.94	1.46
AD8667ARMZ-REELCT-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-MSOP	3.76	3.01	2.34
AD8667ARMZ-REELTR-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-MSOP	6312.60/3,000		
AD8667ARZ-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-SOIC	3.76	3.01	2.34
AD8668ARUZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	14-TSSOP	4.01	3.21	2.50

* RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD8668ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	14-SOIC	4.01	3.21	2.50
AD8669ARUZ-ND	Op Amp 16V, 4MHz Precision R-R*	14-TSSOP	5.40	4.32	3.65
AD8669ARZ-ND	Op Amp 16V, 4MHz Precision Rail-to-Rail*	14-SOIC	5.40	4.32	3.65
AD8675ARZ-ND	Op Amp 36V Precision Rail-to-Rail*	8-SOIC	2.77	2.22	1.73
AD8676ARMZ-REELCT-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	3.85	3.08	2.40
AD8676ARMZ-REELTR-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	6463.80/3,000		
AD8676ARZ-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-SOIC	3.85	3.08	2.40
AD8676BRMZ-REELCT-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	4.95	3.96	3.08
AD8676BRMZ-REELTR-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	8316.00/3,000		
AD8676BRZ-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-SOIC	4.95	3.96	3.08
AD8677ARZ-ND	Op Amp 130µV Offset Voltage*	8-SOIC	2.15	1.72	1.29
AD8677AUJZ-REEL7CT-ND	Op Amp 130µV Offset Voltage*	TSOT-5	1.90	1.52	1.14
AD8677AUJZ-REEL7TR-ND	Op Amp 130µV Offset Voltage*	TSOT-5	2918.40/3,000		
AD8682ARMZ-REELCT-ND	Op Amp Dual Low Power, High Speed, JFET*	8-MSOP	4.10	3.28	2.55
AD8682ARMZ-REELTR-ND	Op Amp Dual Low Power, High Speed, JFET*	8-MSOP	6879.60/3,000		
AD8682ARZ-ND	Op Amp Dual Low Power, High Speed, JFET*	8-SOIC	4.10	3.28	2.55
AD8684ARUZ-ND	Op Amp Quad Low Power, High Speed, JFET*	14-TSSOP	5.20	4.16	3.51
AD9631ANZ-ND	Op Amp Voltage-Feedback*	8-Dip	9.76	7.81	6.59
AD9632ARZ-ND	Op Amp Voltage-Feedback*	8-SOIC	9.40	7.52	6.35
ADA4051-1ARJZ-R2CT-ND	Op Amp,Micropower, Rail-to-Rail* ***NEW!***	SOT-23-5	3.06	2.45	1.91
ADA4051-1ARJZ-R2TR-ND	Op Amp,Micropower, Rail-to-Rail* ***NEW!***	SOT-23-5	452.20/250		
ADA4051-2ARMZ-R7CT-ND	Op Amp,Micropower, Rail-to-Rail* ***NEW!***	8-MSOP	3.53	2.83	2.20
ADA4051-2ARMZ-R7TR-ND	Op Amp,Micropower, Rail-to-Rail* ***NEW!***	8-MSOP	2001.75/1,000		
ADA4062-2ARMZ-ND	Op Amp, Dual Low Power JFET-Input*	8-MSOP	2.03	1.62	1.22
ADA4062-2ARZ-ND	Op Amp, Dual Low Power JFET-Input*	8-SOIC	2.03	1.62	1.22
ADA4062-2BRZ-ND	Op Amp, Dual Low Power JFET-Input*	8-SOIC	1.93	1.54	1.16
ADA4062-4ACPZ-R2CT-ND	Op Amp, Quad Low Power JFET-Input* ***NEW!***	16-LFCSP	4.05	3.24	2.52
ADA4062-4ACPZ-R2TR-ND	Op Amp, Quad Low Power JFET-Input* ***NEW!***	16-LFCSP	598.50/250		
ADA4062-4ARUZ-ND	Op Amp, Quad Low Power JFET-Input* ***NEW!***	14-TSSOP	2.95	2.36	1.84
ADA4075-2ACPZ-R7CT-ND	Op Amp, Dual Ultralow Noise* ***NEW!***	8-LFCSP	1.88	1.50	1.13
ADA4075-2ACPZ-R7TR-ND	Op Amp, Dual Ultralow Noise* ***NEW!***	8-LFCSP	2880.00/3,000		
ADA4075-2ARZ-ND	Op Amp, Dual Ultralow Noise*	8-SOIC	1.93	1.54	1.16
ADA4091-2ACPZ-R2CT-ND	Op Amp, Dual, Rail-to-Rail In/Out* ***NEW!***	8-LFCSP	7.00	5.60	4.73
ADA4091-2ACPZ-R2TR-ND	Op Amp, Dual, Rail-to-Rail In/Out* ***NEW!***	8-LFCSP	1137.50/250		
ADA4091-2ARZ-ND	Op Amp, Dual, Rail-to-Rail In/Out*	8-SOIC	5.08	4.07	3.43
ADA4091-4ARUZ-ND	Op Amp, Quad, Rail-to-Rail In/Out* ***NEW!***	14-TSSOP	8.24	6.60	5.57
ADA4310-1ACPZ-R7CT-ND	Op Amp, High Speed, Current Feedback*	16-LFCSP	2.36	1.89	1.47
ADA4311-1ARHZ-R7CT-ND	Op Amp, 2 High Speed, Current Feedback*	10-MSOP	3.06	2.45	1.91
ADA4817-1ACPZ-R7CT-ND	Op Amp FastFET™, 1GHz, Low Noise*	8-LFCSP	5.90	4.72	3.99
ADA4817-1ACPZ-R7TR-ND	Op Amp FastFET™, 1GHz, Low Noise*	8-LFCSP	5531.25/1,500		
ADA4817-2ACPZ-R7CT-ND	Op Amp FastFET™, Dual, 1GHz, Low Noise*	16-LFCSP	9.96	7.97	6.73
ADA4817-2ACPZ-R7TR-ND	Op Amp FastFET™, Dual, 1GHz, Low Noise*	16-LFCSP	9337.50/1,500		
ADA4841-1YRJZ-R7CT-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	SOT-23-6	4.25	3.41	2.65
ADA4841-1YRJZ-R7TR-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	SOT-23-6	7144.20/3,000		
ADA4841-1YRZ-R7CT-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	3.67	2.94	2.29
ADA4841-1YRZ-R7TR-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	2078.25/1,000		
ADA4841-2YRMZ-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-MSOP	5.33	4.27	3.32
ADA4841-2YRZ-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	5.33	4.27	3.32
ADA4851-1YRJZR2CT-ND	Op Amp High Speed Rail-to-Rail*	SOT-23-6	1.75	1.40	1.05
ADA4851-1YRJZR2TR-ND	Op Amp High Speed Rail-to-Rail*	SOT-23-6	245.00/250		
ADA4851-2YRMZ-ND	Op Amp High Speed Rail-to-Rail*	8-MSOP	1.90	1.52	1.14
ADA4851-4YRUZ-ND	Op Amp High Speed Rail-to-Rail*	14-TSSOP	2.70	2.16	1.68
ADA4853-1AKSZ-R2CT-ND	Op Amp Video, Rail-to-Rail Output*	SC70-6	2.20	1.76	1.32
ADA4853-1AKSZ-R2TR-ND	Op Amp Video, Rail-to-Rail Output*	SC70-6	308.00/250		
ADA4853-2YCPZ-RL7CT-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	2.45	1.96	1.47
ADA4853-3YCPZ-R7CT-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	2.68	2.15	1.67
ADA4853-3YCPZ-R7TR-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	2275.88/1,500		
ADA4855-3YCPZ-R7CT-ND	Op Amp Triple, Single Supply, High Speed Rail-to-Rail Output*	16-LFCSP	3.13	2.51	1.95
ADA4855-3YCPZ-R7TR-ND	Op Amp Triple, Single Supply, High Speed Rail-to-Rail Output*	16-LFCSP	2658.38/1,500		
ADA4856-3YCPZ-R7CT-ND	Video Amp R-R Out, Single Supply, HS*	16-LFCSP	3.13	2.51	1.95
ADA4857-1YCPZ-R7CT-ND	Op Amp Ultralow Distortion, Low Power, Low Noise, High Speed*	8-LFCSP	2.15	1.72	1.29
ADA4857-1YCPZ-R7TR-ND	Op Amp Ultralow Distortion, Low Power, Low Noise, High Speed*	8-LFCSP	1677.00/1,500		
ADA4857-1YRZ-ND	Op Amp Ultralow Distortion, Low Power, Low Noise, High Speed*	8-SOIC	2.20	1.76	1.32
ADA4857-2YCPZ-R7CT-ND	Op Amp Ultralow Distortion, Low Power, Low Noise, High Speed, 2-Channel*	8-LFCSP	3.17	2.54	1.98
ADA4857-2YCPZ-R7TR-ND	Op Amp Ultralow Distortion, Low Power, Low Noise, High Speed, 2-Channel*	8-LFCSP	2696.63/1,500		
ADA4858-3ACPZ-R7CT-ND	Op Amp Triple, Single Supply, HS*	16-LFCSP	3.80	3.05	2.37
ADA4858-3ACPZ-R7TR-ND	Op Amp Triple, Single Supply, HS*	16-LFCSP	3232.13/1,500		
ADA4859-3ACPZ-R7CT-ND	Video Amp, Single Supply, Fixed G=2, HS*	16-LFCSP	3.80	3.05	2.37
ADA4859-3ACPZ-R7TR-ND	Video Amp, Single Supply, Fixed G=2, HS*	16-LFCSP	3232.13/1,500		
ADA4861-3YRZ-ND	Op Amp Triple High Speed*	14-SOIC	2.34	1.88	1.46
ADA4862-3YRZ-ND	Op Amp Triple High Speed*	14-SOIC	2.34	1.88	1.46
ADA4898-1YRDZ-ND	Op Amp High Voltage, Low Noise, Low Distortion, Unity Gain Stable, High Speed*	8-SOIC	5.29	4.23	3.29
ADA4899-1YCPZ-R7CT-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-LFCSP	4.30	3.44	2.68
ADA4899-1YCPZ-R7TR-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-LFCSP	3652.88/1,500		
ADA4899-1YRDZ-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-SOIC	4.41	3.53	2.75
ADA4941-1YRZ-ND	Single Supply Differential 18-Bit ADC Driver*	8-SOIC	5.56	4.45	3.46
ADEL2020ANZ-ND	Op Amp, Single CFA, Low Noise, Low Power*	8-Dip	5.09	4.07	3.17
ADN2525ACPZ-R2CT-ND	10.7Gbps Active Back-Termination Differential Laser Diode Driver*	16-LFCSP	38.06	35.52	32.99
ADN2525ACPZ-R2TR-ND	10.7Gbps Active Back-Termination Differential Laser Diode Driver*	16-LFCSP	8086.69/250		
ADM1191-2ARMZ-R7CT-ND	Digital Power Monitor*	10-MSOP	4.32	3.46	2.69
ADM1191-2ARMZ-R7TR-ND	Digital Power Monitor*	10-MSOP	2448.00/1,000		
ADM1192-1ARMZ-R7CT-ND	Digital Power Monitor*	10-MSOP	4.32	3.46	2.69
ADM1192-1ARMZ-R7TR-ND	Digital Power Monitor*	10-MSOP	2448.00/1,000		
EVAL-ADM1192EBZ-ND	Evaluation Board for ADM1192*	—	151.80	—	—
ADTL082ARMZ-REELCT-ND	Op Amp JFET Input*	8-MSOP	1.23	1.03	.82
ADTL082ARMZ-REELTR-ND	Op Amp JFET Input*	8-MSOP	1599.00/3,000		
ADTL082ARZ-ND	Op Amp JFET Input*	8-SOIC	1.23	1.03	.82
ADTL082JRZ-ND	Op Amp JFET Input*	8-SOIC	1.08	.90	.72
ADTL084ARUZ-ND	Op Amp JFET Input*	14-TSSOP	2.10	1.68	1.26
ADTL084ARZ-ND	Op Amp JFET Input*	14-SOIC	2.10	1.68	1.26
ADTL084JRZ-ND	Op Amp JFET Input*	14-SOIC	1.25	1.00	.75
OP11EPZ-ND	Op Amp Quad 741-Type*	14-Dip	10.70	9.63	8.54
OP183GSZ-ND	Op Amp 5MHz Low Noise*	8-SOIC	3.85	3.08	2.40
OP200EZ-ND	Op Amp Dual Low Offset*	8-CDip	12.86	11.58	10.27
OP275GSZ-REEL7CT-ND	Op Amp Dual Bipolar/JFET, Audio*	8-SOIC	2.30	1.84	1.38
OP275GSZ-REEL7TR-ND	Op Amp Dual Bipolar/JFET, Audio*	8-SOIC	1196.00/1,000		
OP279GSZ-ND	Op Amp Dual Single Supply Rail-to-Rail 60mA*	8-SOIC	2.95	2.36	1.84

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
OP281GSZ-ND	Op Amp Rail-to-Rail Out, Ultralow Power*	8-SOIC	5.12	4.10	3.46
OP291GSZ-ND	Op Amp Dual Single Supply Rail-to-Rail*	8-SOIC	4.79	3.84	2.99
OP292GSZ-ND	Op Amp Dual Single Supply*	8-SOIC	3.40	2.72	2.12
OP293ESZ-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	9.82	7.86	6.63
OP293FSZ-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	5.04	4.04	3.14
OP293FSZ-REEL7CT-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	5.04	4.04	3.14
OP293FSZ-REEL7TR-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	2856.00/1,000		
OP295GPZ-ND	Op Amp Dual Rail-to-Rail*	8-Dip	4.68	3.75	2.92
OP295GS-REEL7TR-ND	Op Amp Dual Rail-to-Rail	8-SOIC	2932.50/1,000		
OP295GSZ-ND	Op Amp Dual Rail-to-Rail*	8-SOIC	4.59	3.68	2.86
OP296GSZ-ND	Op Amp Dual Rail-to-Rail Low Power*	8-SOIC	4.07	3.26	2.54
OP296HRUZ-REELCT-ND	Op Amp Dual Rail-to-Rail Low Power* ***NEW!***	8-TSSOP	3.69	2.96	2.30
OP296HRUZ-REELTR-ND	Op Amp Dual Rail-to-Rail Low Power* ***NEW!***	8-TSSOP	5166.00/2,500		
OP400EY-ND	Op Amp Quad Low Offset	14-CDip	16.88	15.75	14.63
OP400GPZ-ND	Op Amp Quad Low Offset*	14-Dip	8.40	7.56	6.71
OP400GSZ-ND	Op Amp Quad Low Offset*	16-SOIC	8.40	7.56	6.71
OP400HPZ-ND	Op Amp Quad Low Offset*	14-Dip	9.15	8.24	7.31
OP400HSZ-ND	Op Amp Quad Low Offset*	16-SOIC	9.15	8.24	7.31
OP462HRUZ-REELCT-ND	Op Amp Quad Rail-to-Rail, Low Offset* ***NEW!***	14-TSSOP	7.56	6.05	5.11
OP462HRUZ-REELTR-ND	Op Amp Quad Rail-to-Rail, Low Offset* ***NEW!***	14-TSSOP	11718.00/2,500		
OP492GSZ-ND	Op Amp Quad Single Supply*	14-SOIC	5.92	4.74	3.69
OP495GSZ-ND	Op Amp Quad Rail-to-Rail*	16-SOIC	8.76	7.01	5.92
OP496HRUZ-REELCT-ND	Op Amp Quad Rail-to-Rail Low Power* ***NEW!***	14-TSSOP	5.31	4.25	3.31
OP496HRUZ-REELTR-ND	Op Amp Quad Rail-to-Rail Low Power* ***NEW!***	14-TSSOP	7434.00/2,500		
SMP04EPZ-ND	Amp Quad Sample-Hold*	16-Dip	8.75	7.88	6.99
SMP04ESZ-ND	Amp Quad Sample-Hold*	16-SOIC	8.43	7.59	6.73
SMP08FSZ-ND	Amp Octal Sample-Hold*	16-SOIC	13.31	11.99	10.63
High-Speed					
AD585AQ-ND	Precision Sample and Hold Amp Mono High Speed	14-Dip	29.27	27.32	25.37
AD810ANZ-ND	Current-Feedback Amp Video Low Power*	8-Dip	5.04	4.04	3.14
AD810ARZ-ND	Current-Feedback Amp Video Low Power*	8-SOIC	5.04	4.04	3.14
AD811ANZ-ND	High Performance Video Op Amp*	8-Dip	7.00	5.60	4.73
AD811ARZ-16-ND	High Performance Video Op Amp*	16-SOIC	7.74	6.20	5.23
AD811JRZ-ND	Current-Feedback Amp Video High Speed*	8-SOIC	7.00	5.60	4.73
AD812ANZ-ND	Current-Feedback Amp Dual Low Power*	8-Dip	5.16	4.13	3.49
AD812ARZ-ND	Current-Feedback Amp Dual Low Power*	8-SOIC	5.16	4.13	3.49
AD826ANZ-ND	Op Amp Dual High Speed Low Power*	8-Dip	5.60	4.49	3.49
AD826ARZ-ND	Op Amp Dual High Speed Low Power*	8-SOIC	5.60	4.49	3.49
AD829ARZ-ND	Video Op Amp Low Noise High Speed*	8-SOIC	6.03	4.83	3.76
AD829JNZ-ND	Video Op Amp Low Noise High Speed*	8-Dip	6.30	5.04	4.26
AD829JR-REEL7TR-ND	Video Op Amp Low Noise High Speed	8-SOIC	3286.13/750		
AD829JRZ-ND	Video Op Amp Low Noise High Speed*	8-SOIC	6.30	5.04	4.26
AD843JRZ-16-ND	34MHz, CBFET Fast Settling Op Amp*	16-SOIC	10.62	8.50	7.17
AD844ANZ-ND	Op Amp Mono 60MHz*	8-Dip	6.54	5.24	4.42
AD847ARZ-ND	Op Amp Mono 50MHz High Speed*	8-SOIC	6.54	5.24	4.42
AD847JNZ-ND	Op Amp Mono 50MHz High Speed*	8-Dip	5.96	4.77	4.03
AD847JRZ-ND	Op Amp Mono 50MHz High Speed*	8-SOIC	7.42	5.94	5.01
AD848JNZ-ND	Op Amp Mono 175MHz High Speed*	8-Dip	6.00	4.80	4.05
AD848JRZ-ND	Op Amp Mono 175MHz High Speed*	8-SOIC	6.00	4.80	4.05
AD8000YCPZ-REEL7CT-ND	Op Amp 1.5GHz Ultra High Speed*	8-SFCSP	3.83	3.06	2.38
AD8000YCPZ-REEL7TR-ND	Op Amp 1.5GHz Ultra High Speed*	8-SFCSP	3251.25/1,500		
AD8000YRDZ-ND	Op Amp 1.5GHz Ultra High Speed*	8-SOIC	3.83	3.06	2.38
AD8001ANZ-ND	Current-Feedback Amp, 800MHz*	8-Dip	6.30	5.04	4.26
AD8001ARTZREEL7CT-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	3.40	2.72	2.12
AD8001ARTZREEL7TR-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	5707.80/3,000		
AD8001ARZ-ND	Current-Feedback Amp, 800MHz*	8-SOIC	6.30	5.04	4.26
AD8002ARZ-ND	Current-Feedback Amp Dual, 600MHz*	8-SOIC	6.52	5.22	4.41
AD8003ACPZ-REEL7CT-ND	Op Amp Triple, 1.5GHz*	24-LFCSP	5.84	4.68	3.95
AD8003ACPZ-REEL7TR-ND	Op Amp Triple, 1.5GHz*	24-LFCSP	5475.00/1,500		
AD8004ANZ-ND	Current-Feedback Amp Quad*	14-Dip	9.02	7.22	6.09
AD8004ARZ-14-ND	Current-Feedback Amp Quad*	14-SOIC	9.02	7.22	6.09
AD8007AKSZ-REEL7CT-ND	Current-Feedback Amp, 650MHz*	SC70-5	2.99	2.40	1.87
AD8007AKSZ-REEL7TR-ND	Current-Feedback Amp, 650MHz*	SC70-5	5027.40/3,000		
AD8007ARZ-ND	Current-Feedback Amp, 650MHz*	8-SOIC	3.06	2.45	1.91
AD8008ARZ-ND	Current-Feedback Amp Dual*	8-SOIC	5.09	4.07	3.17
AD8008ARMZ-ND	Current-Feedback Amp Dual*	8-MSOP	5.09	4.07	3.17
AD8009AR-ND	Current-Feedback Amp, 1GHz	8-SOIC	4.48	3.59	2.79
AD8009ARZ-ND	Current-Feedback Amp, 1GHz*	8-SOIC	4.07	3.26	2.54
AD8009JRTZ-REEL7CT-ND	Current-Feedback Amp, 1GHz*	SOT-23-5	3.98	3.19	2.48
AD8009JRTZ-REEL7TR-ND	Current-Feedback Amp, 1GHz*	SOT-23-5	6690.60/3,000		
AD8010ARZ-ND	Op Amp Low Power High Speed*	8-SOIC	6.26	5.01	4.23
AD8011ANZ-ND	Current-Feedback Amp, 300MHz*	8-Dip	4.97	3.98	3.10
AD8011ARZ-ND	Current-Feedback Amp, 300MHz*	8-SOIC	4.97	3.98	3.10
AD8011AR-REEL7CT-ND	Current-Feedback Amp, 300MHz	8-SOIC	5.33	4.27	3.32
AD8011AR-REEL7TR-ND	Current-Feedback Amp, 300MHz	8-SOIC	2369.25/750		
AD8012ARMZ-ND	Current-Feedback Dual Amp, 350MHz*	8-MSOP	4.88	3.91	3.04
AD8012ARZ-ND	Current-Feedback Dual Amp, 350MHz*	8-SOIC	4.88	3.91	3.04
AD8014ARTZ-REEL7CT-ND	Current-Feedback Amp, 400MHz*	SOT-23-5	2.70	2.16	1.68
AD8014ARTZ-REEL7TR-ND	Current-Feedback Amp, 400MHz*	SOT-23-5	4536.00/3,000		
AD8014ARZ-ND	Current-Feedback Amp, 400MHz*	8-SOIC	2.70	2.16	1.68
AD8021ARZ-ND	Voltage-Feedback Amp, 200MHz High Speed*	8-SOIC	3.02	2.42	1.88
AD8021ARMZ-ND	Voltage-Feedback Amp, 200MHz High Speed*	8-MSOP	3.02	2.42	1.88
AD8022ARMZ-ND	Op Amp Dual High Speed Low Noise*	8-MSOP	5.36	4.29	3.34
AD8022ARZ-ND	Op Amp Dual High Speed Low Noise*	8-SOIC	5.36	4.29	3.34
AD8024ARZ-ND	Amp Quad 24V 350MHz*	16-SOIC	8.64	6.92	5.84
AD8027ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	8-SOIC	2.79	2.24	1.74
AD8027ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail In/Out High Speed*	SOT-23-6	2.70	2.16	1.68
AD8027ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail In/Out High Speed*	SOT-23-6	4536.00/3,000		
AD8028ARMZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	10-MSOP	4.41	3.53	2.75
AD8028ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	8-SOIC	4.41	3.53	2.75
AD8029AKSZ-REEL7CT-ND	Op Amp Rail-to-Rail In/Out High Speed LP*	SC70-6	2.15	1.72	1.29
AD8029AKSZ-REEL7TR-ND	Op Amp Rail-to-Rail In/Out High Speed LP*	SC70-6	3302.40/3,000		
AD8029ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed LP*	8-SOIC	2.20	1.76	1.32
AD8030ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed LP*	8-SOIC	2.79	2.24	1.74
AD8030ARJZ-REEL7CT-ND	Op Amp Dual Rail-to-Rail In/Out High Speed LP*	SOT-23-8	2.72	2.18	1.70
AD8030ARJZ-REEL7TR-ND	Op Amp Dual Rail-to-Rail In/Out High Speed LP*	SOT-23-8	4573.80/3,000		
AD8031ANZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-Dip	2.95	2.36	1.84
AD8031ARZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	2.95	2.36	1.84
AD8031ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	2.59	2.07	1.61
AD8031ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	4347.00/3,000		
AD8031BNZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-Dip	4.91	3.93	3.06
AD8031BRZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	4.91	3.93	3.06
AD8032ANZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-Dip	4.55	3.64	2.83
AD8032AR-ND	Voltage-Feedback Amp Dual Rail-to-Rail	8-SOIC	5.24	4.20	3.27
AD8032ARMZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-MSOP	4.55	3.64	2.83
AD8032ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	4.55	3.64	2.83
AD8032BNZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-Dip	6.32	5.06	4.27

** RoHS Compliant*

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(Continued)

ANALOG DEVICES DigiReel® (Cont.) AMPLIFIERS

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD8032BRZ-REEL7CT-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	6.32	5.06	4.27
AD8032BRZ-REEL7TR-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	3009.90/750		
AD8033AKSZ-REEL7CT-ND	Voltage-Feedback Amp with FastFET™*	SC70-5	2.32	1.86	1.45
AD8033AKSZ-REEL7TR-ND	Voltage-Feedback Amp with FastFET™*	SC70-5	3893.40/3,000		
AD8033ARZ-ND	Voltage-Feedback Amp with FastFET™*	8-SOIC	2.48	1.98	1.54
AD8034ARTZ-REEL7CT-ND	Voltage-Feedback Amp Dual with FastFET™*	SOT-23-8	3.62	2.90	2.26
AD8034ARTZ-REEL7TR-ND	Voltage-Feedback Amp Dual with FastFET™*	SOT-23-8	6085.80/3,000		
AD8034ARZ-ND	Voltage-Feedback Amp Dual with FastFET™*	8-SOIC	3.69	2.96	2.30
AD8036ANZ-ND	Voltage-Feedback Clamp Amp*	8-Dip	8.88	7.11	6.00
AD8036ARZ-ND	Voltage-Feedback Clamp Amp*	8-SOIC	8.88	7.11	6.00
AD8037ANZ-ND	Voltage-Feedback Amp Output Clamping*	8-Dip	8.54	6.84	5.77
AD8037ARZ-ND	Voltage-Feedback Amp Output Clamping*	8-SOIC	8.54	6.84	5.77
AD8038AKSZ-REEL7CT-ND	Voltage-Feedback Amp 350MHz Low Power*	SC70-5	2.15	1.72	1.29
AD8038AKSZ-REEL7TR-ND	Voltage-Feedback Amp 350MHz Low Power*	SC70-5	3302.40/3,000		
AD8038ARZ-ND	Voltage-Feedback Amp 350MHz Low Power*	8-SOIC	2.20	1.76	1.32
AD8039ARZ-ND	Voltage-Feedback Amp 350MHz Low Power*	8-SOIC	2.79	2.24	1.74
AD8039ARTZREEL7CT-ND	Voltage-Feedback Amp 350MHz Low Power*	SOT-23-8	2.72	2.18	1.70
AD8039ARTZREEL7TR-ND	Voltage-Feedback Amp 350MHz Low Power*	SOT-23-8	4573.80/3,000		
AD8040ARZ-ND	Low Power, High Speed, Rail-to-Rail In/Out Amp*	14-SOIC	3.71	2.97	2.31
AD8041ANZ-ND	Voltage-Feedback Amp with Disable*	8-Dip	4.23	3.39	2.64
AD8041ARZ-ND	Voltage-Feedback Amp with Disable*	8-SOIC	4.23	3.39	2.64
AD8042ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	5.24	4.20	3.27
AD8044ANZ-ND	Voltage-Feedback Amp Rail-to-Rail Quad*	14-Dip	8.20	6.56	5.54
AD8044ARZ-14-ND	Voltage-Feedback Amp Rail-to-Rail Quad*	14-SOIC	8.20	6.56	5.54
AD8045ACPZ-REEL7CT-ND	Voltage-Feedback Amp Ultralow Distortion*	8-LFCSP	3.17	2.54	1.98
AD8045ACPZ-REEL7TR-ND	Voltage-Feedback Amp Ultralow Distortion*	8-LFCSP	2696.63/1,500		
AD8045ARDZ-ND	Voltage-Feedback Amp Ultralow Distortion*	8-SOIC	3.24	2.60	2.02
AD8047ANZ-ND	Voltage-Feedback Amp 250MHz*	8-Dip	5.47	4.38	3.41
AD8047ARZ-ND	Voltage-Feedback Amp 250MHz*	8-SOIC	5.47	4.38	3.41
AD8048ARZ-ND	Voltage-Feedback Amp General Purpose*	8-SOIC	4.97	3.98	3.10
AD8051ARZ-ND	Voltage-Feedback Amp Single High Speed*	8-SOIC	2.18	1.74	1.31
AD8051ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	2.18	1.74	1.31
AD8051ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	3340.80/3,000		
AD8052ARZ-ND	Voltage-Feedback Amp Dual High Speed*	8-SOIC	3.71	2.97	2.31
AD8052ARMZ-ND	Voltage-Feedback Amp Dual High Speed*	8-MSOP	3.71	2.97	2.31
AD8054AR-REEL7CT-ND	Voltage-Feedback Amp Quad High Speed	14-SOIC	6.82	5.46	4.61
AD8054ARZ-ND	Voltage-Feedback Amp Quad High Speed*	14-SOIC	5.90	4.72	3.99
AD8054ARUZ-ND	Voltage-Feedback Amp Quad High Speed*	14-TSSOP	6.20	4.96	4.19
AD8055ANZ-ND	Voltage-Feedback Amp Single*	8-Dip	2.20	1.76	1.32
AD8055ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.20	1.76	1.32
AD8055ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single*	SOT-23-5	1.88	1.50	1.13
AD8055ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single*	SOT-23-5	2880.00/3,000		
AD8056AR-REEL7TR-ND	Voltage-Feedback Amp Dual	8-SOIC	1862.25/750		
AD8056ARMZ-ND	Voltage-Feedback Amp Dual*	8-MSOP	3.71	2.97	2.31
AD8056ARZ-ND	Voltage-Feedback Amp Dual*	8-SOIC	3.71	2.97	2.31
AD8057ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single*	SOT-23-5	1.88	1.50	1.13
AD8057ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single*	SOT-23-5	2880.00/3,000		
AD8057ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.20	1.76	1.32
AD8058ARMZ-ND	Voltage-Feedback Amp Dual*	8-MSOP	3.71	2.97	2.31
AD8058ARZ-ND	Voltage-Feedback Amp Dual*	8-SOIC	3.71	2.97	2.31
AD8061ARTZ-REEL7CT-ND	Voltage-Feedback Amp Rail-to-Rail*	SOT-23-5	1.88	1.50	1.13
AD8061ARTZ-REEL7TR-ND	Voltage-Feedback Amp Rail-to-Rail*	SOT-23-5	2880.00/3,000		
AD8062ARZ-ND	Voltage-Feedback Amp Rail-to-Rail*	8-SOIC	3.71	2.97	2.31
AD8062ARMZ-R7CT-ND	Voltage-Feedback Amp Rail-to-Rail*	8-MSOP	3.71	2.97	2.31
AD8062ARMZ-R7TR-ND	Voltage-Feedback Amp Rail-to-Rail*	8-MSOP	2103.75/1,000		
AD8063ARZ-ND	Voltage-Feedback Amp Rail-to-Rail*	8-SOIC	2.18	1.74	1.31
AD8065ARZ-ND	Voltage-Feedback Amp Single High Speed*	8-SOIC	3.69	2.96	2.30
AD8065ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	3.62	2.90	2.26
AD8065ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	6085.80/3,000		
AD8066ARZ-ND	Voltage-Feedback Amp Dual High Speed*	8-SOIC	5.33	4.27	3.32
AD8066ARMZ-ND	Voltage-Feedback Amp Dual High Speed*	8-MSOP	5.33	4.27	3.32
AD8067ARTZ-REEL7CT-ND	Precision FastFET™ Op Amp*	SOT-23-5	5.22	4.18	3.25
AD8067ARTZ-REEL7TR-ND	Precision FastFET™ Op Amp*	SOT-23-5	8769.60/3,000		
AD8091ARTZ-R7CT-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	1.75	1.40	1.05
AD8091ARTZ-R7TR-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	2688.00/3,000		
AD8091ARZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	1.78	1.42	1.07
AD8092ARMZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-MSOP	2.30	1.84	1.38
AD8092ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	2.30	1.84	1.38
AD8099ACPZ-REEL7CT-ND	Voltage-Feedback High Speed Op Amp*	8-LFCSP	4.50	3.60	2.80
AD8099ACPZ-REEL7TR-ND	Voltage-Feedback High Speed Op Amp*	8-LFCSP	3825.00/1,500		
AD8099ARDZ-ND	Voltage-Feedback High Speed Op Amp*	8-SOIC	4.61	3.69	2.87
AD8132ARZ-ND	Differential Amp 350MHz High Speed*	8-SOIC	3.85	3.08	2.40
AD8132ARMZ-ND	Differential Amp 350MHz High Speed*	8-MSOP	3.85	3.08	2.40
AD8132WARMZ-R7CT-ND	Differential Amp 350MHz High Speed* ***NEW!***	8-MSOP	4.12	3.30	2.57
AD8132WARMZ-R7TR-ND	Differential Amp 350MHz High Speed* ***NEW!***	8-MSOP	2333.25/1,000		
AD8137YCPZ-REEL7CT-ND	Differential 12-Bit ADC Driver*	8-LFCSP	2.48	1.98	1.54
AD8137YCPZ-REEL7TR-ND	Differential 12-Bit ADC Driver*	8-LFCSP	2103.75/1,500		
AD8137YRZ-ND	Differential 12-Bit ADC Driver*	8-SOIC	2.54	2.04	1.59
AD8138ARZ-ND	Differential ADC Driver Low Distortion*	8-SOIC	7.50	6.00	5.07
AD8138ARMZ-ND	Differential ADC Driver Low Distortion*	8-MSOP	7.50	6.00	5.07
AD8139ACPZ-REEL7CT-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-LFCSP	7.50	6.00	5.07
AD8139ACPZ-REEL7TR-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-LFCSP	7031.25/1,500		
AD8139ARDZ-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-SOIC	7.50	6.00	5.07
AD8397ARDZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	5.33	4.27	3.32
AD8644ARZ-ND	Op Amp 18V Quad 5.5MHz*	14-SOIC	5.49	4.40	3.42
AD8646ARMZ-REELCT-ND	24MHz Rail-to-Rail Dual Amp*	8-MSOP	1.60	1.28	.96
AD8646ARMZ-REELTR-ND	24MHz Rail-to-Rail Dual Amp*	8-MSOP	2457.60/3,000		
AD8646ARZ-ND	24MHz Rail-to-Rail Dual Amp*	8-SOIC	1.60	1.28	.96
AD9631ARZ-ND	Voltage-Feedback Op Amp Wide Bandwidth*	8-SOIC	9.76	7.81	6.59
ADA4850-1YCPZ-R2CT-ND	Op Amp High Speed Rail-to-Rail Out*	8-LFCSP	1.75	1.40	1.05
ADA4850-1YCPZ-R2TR-ND	Op Amp High Speed Rail-to-Rail Out*	8-LFCSP	245.00/250		
ADA4850-2YCPZ-R2CT-ND	Op Amp High Speed Rail-to-Rail Out*	16-LFCSP	2.18	1.74	1.31
ADA4850-2YCPZ-R2TR-ND	Op Amp High Speed Rail-to-Rail Out*	16-LFCSP	304.50/250		
OP42FZ-ND	Op Amp Precision High Speed Fast Set*	8-CDip	7.28	5.83	4.92
OP42GPZ-ND	Op Amp Precision High Speed Fast Set*	8-Dip	4.91	3.93	3.06
OP42GSZ-ND	Op Amp Precision High Speed Fast Set*	8-SOIC	4.91	3.93	3.06
OP162GSZ-ND	Op Amp 15MHz Rail-to-Rail*	8-SOIC	3.69	2.96	2.30
OP249GPZ-ND	Op Amp Dual JFET Precision High Speed*	8-Dip	4.03	3.23	2.51
OP249GSZ-ND	Op Amp Dual JFET Precision High Speed*	8-SOIC	4.03	3.23	2.51
OP462GSZ-ND	Op Amp Quad Rail-to-Rail High Speed*	14-SOIC	7.94	6.36	5.36
OP467GPZ-ND	Op Amp Quad Precision High Speed*	14-Dip	12.00	10.80	9.58
OP467GSZ-ND	Op Amp Quad Precision High Speed*	16-SOIC	12.93	11.64	10.33
OP482GPZ-ND	Op Amp Quad JFET High Speed Low Power*	14-Dip	4.84	3.87	3.01
OP482GSZ-ND	Op Amp Quad JFET High Speed Low Power*	14-SOIC	4.34	3.48	2.71
	Instrumentation				
AD521JDZ-ND	Instrumentation Amp Precision*	14-CDip	34.07	31.80	29.53

ANALOG DEVICES DigiReel® (Cont.) AMPLIFIERS

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD524ADZ-ND	Instrumentation Amp Precision*	16-CDip	19.43	18.13	16.84
AD524ARZ-16-ND	Instrumentation Amp Precision*	16-SOIC	14.08	12.68	11.24
AD524BDZ-ND	Instrumentation Amp Precision*	16-CDip	30.53	28.49	26.46
AD524CDZ-ND	Instrumentation Amp Precision*	16-CDip	46.64	43.53	40.42
AD526ADZ-ND	Gain Amp Software Programmable*	16-Dip	17.78	16.59	15.41
AD526BDZ-ND	Gain Amp Software Programmable*	16-Dip	21.41	19.98	18.56
AD526CDZ-ND	Gain Amp Software Programmable*	16-Dip	39.90	37.24	34.58
AD526JNZ-ND	Gain Amp Software Programmable*	16-Dip	10.45	9.41	8.34
AD594ADZ-ND	Mono Thermocouple Amp*	TO-116	21.56	20.12	18.69
AD594CDZ-ND	Mono Thermocouple Amp*	TO-116	31.28	29.19	27.11
AD595ADZ-ND	Thermocouple Instrumentation Amp*	14-CDip	23.64	22.07	20.49
AD595CDZ-ND	Thermocouple Instrumentation Amp*	14-CDip	31.28	29.19	27.11
AD620ANZ-ND	Instrumentation Amp Low Power*	8-Dip	6.92	5.54	4.68
AD620ARZ-ND	Instrumentation Amp Low Power*	8-SOIC	6.92	5.54	4.68
AD620ARZ-REEL7CT-ND	Instrumentation Amp Low Power*	8-SOIC	6.92	5.54	4.68
AD620ARZ-REEL7TR-ND	Instrumentation Amp Low Power*	8-SOIC	3295.65/750		
AD620BNZ-ND	Instrumentation Amp Low Power*	8-Dip	8.65	7.79	6.91
AD620BRZ-ND	Instrumentation Amp Low Power*	8-SOIC	8.65	7.79	6.91
AD621ANZ-ND	Instrumentation Amp Low Power Low Drift*	8-Dip	8.90	7.12	6.01
AD621ARZ-ND	Instrumentation Amp Low Power Low Drift*	8-SOIC	8.90	7.12	6.01
AD621BNZ-ND	Instrumentation Amp Low Power Low Drift*	8-Dip	11.11	10.01	8.88
AD621BRZ-ND	Instrumentation Amp Low Power Low Drift*	8-SOIC	11.11	10.01	8.88
AD622ANZ-ND	Instrumentation Amp*	8-Dip	5.26	4.21	3.56
AD622ARZ-ND	Instrumentation Amp*	8-SOIC	5.26	4.21	3.56
AD623ANZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-Dip	4.03	3.23	2.51
AD623ARZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-SOIC	3.44	2.76	2.15
AD623AR-REEL7TR-ND	Instrumentation Amp Rail-to-Rail Out	8-SOIC	2218.50/1,000		
AD623ARMZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-MSOP	3.44	2.76	2.15
AD623BRZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-SOIC	5.56	4.45	3.76
AD624ADZ-ND	Instrumentation Amp Precision Low Noise*	16-CDip	23.37	21.82	20.26
AD624BDZ-ND	Instrumentation Amp Precision Low Noise*	16-CDip	36.36	33.94	31.52
AD624CDZ-ND	Instrumentation Amp Precision Low Noise*	16-CDip	54.47	50.84	47.21
AD625ADZ-ND	Instrumentation Amp Programmable Gain*	16-CDip	21.50	20.07	18.63
AD625JNZ-ND	Instrumentation Amp Programmable Gain*	16-Dip	14.38	12.95	11.48
AD625KNZ-ND	Instrumentation Amp Programmable Gain*	16-Dip	18.36	17.14	15.92
AD626ANZ-ND	Differential Amp True Single Supply*	8-Dip	7.30	5.84	4.93
AD627ANZ-ND	Instrumentation Amp Rail-to-Rail*	8-Dip	5.36	4.29	3.62
AD627ARZ-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	5.36	4.29	3.62
AD627ARZ-R7CT-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	5.36	4.29	3.62
AD627ARZ-R7TR-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	3350.00/1,000		
AD627BNZ-ND	Instrumentation Amp Rail-to-Rail*	8-Dip	7.48	5.99	5.05
AD627BRZ-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	7.48	5.99	5.05
AD628ARZ-ND	Diff. Amp High-Common Mode Voltage Prog.*	8-SOIC	4.30	3.44	2.68
AD628ARMZ-ND	Diff. Amp High-Common Mode Voltage Prog.*	8-MSOP	4.30	3.44	2.68
AD629ANZ-ND	Differential Amp High-Common Mode Voltage*	8-Dip	5.96	4.77	4.03
AD629ARZ-ND	Differential Amp High-Common Mode Voltage*	8-SOIC	5.96	4.77	4.03
AD629BNZ-ND	Differential Amp High-Common Mode Voltage*	8-Dip	9.18	7.35	6.20
AD629BRZ-ND	Differential Amp High-Common Mode Voltage*	8-SOIC	9.18	7.35	6.20
AD5750-1ACPZ-ND	Ind. Current/Voltage Output Driver* ***NEW!***	32-LFCSP	5.20	4.16	3.51
AD5750-1BCPZ-ND	Ind. Current/Voltage Output Driver* ***NEW!***	32-LFCSP	6.98	5.59	4.72
AD5751ACPZ-ND	Ind. Current/Voltage Output Driver* ***NEW!***	32-LFCSP	6.38	5.11	4.31
AD5751BCPZ-ND	Ind. Current/Voltage Output Driver* ***NEW!***	32-LFCSP	9.86	7.89	6.66
AD8220ARMZ-ND	JFET Input Instrumentation Amp*	8-MSOP	5.51	4.41	3.43
AD8220ARMZ-R7CT-ND	JFET Input Instrumentation Amp* ***NEW!***	8-MSOP	5.51	4.41	3.43
AD8220ARMZ-R7TR-ND	JFET Input Instrumentation Amp* ***NEW!***	8-MSOP	3123.75/1,000		
AD8220BRMZ-ND	JFET Input Instrumentation Amp*	8-MSOP	7.50	6.00	5.07
AD8222ACPZ-R7CT-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	7.26	5.81	4.91
AD8222ACPZ-R7TR-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	6806.25/1,500		
AD8222BCPZ-R7CT-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	12.74	10.20	8.60
AD8222BCPZ-R7TR-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	11800.43/1,500		
AD8223ARMZ-R7CT-ND	Instrumentation Amp, Single Supply*	8-MSOP	2.68	2.15	1.67
AD8223ARMZ-R7TR-ND	Instrumentation Amp, Single Supply*	8-MSOP	1517.25/1,000		
AD8223ARZ-ND	Instrumentation Amp, Single Supply*	8-SOIC	2.45	1.97	1.53
AD8223BRMZ-R7CT-ND	Instrumentation Amp, Single Supply*	8-MSOP	3.51	2.81	2.19
AD8223BRMZ-R7TR-ND	Instrumentation Amp, Single Supply*	8-MSOP	1989.00/1,000		
AD8223BRZ-ND	Instrumentation Amp, Single Supply*	8-SOIC	3.26	2.61	2.03
AD8224-EVALZ-ND	Evaluation Board for AD8224*	—	75.84	—	—
AD8224ACPZ-R7CT-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	8.34	6.68	5.63
AD8224ACPZ-R7TR-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	7818.75/1,500		
AD8224BCPZ-R7CT-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	11.28	10.16	9.01
AD8224BCPZ-R7TR-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	12541.43/1,500		
AD8225ARZ-ND	Instrument Amp Precision Gain of 5*	8-SOIC	6.90	5.52	4.66
AD8227ARMZ-R7CT-ND	Instrumentation Amp R/R Output* ***NEW!***	8-MSOP	3.22	2.58	2.01
AD8227ARMZ-R7TR-ND	Instrumentation Amp R/R Output* ***NEW!***	8-MSOP	1823.25/1,000		
AD8227ARZ-ND	Instrumentation Amp R/R Output* ***NEW!***	8-SOIC	3.22	2.58	2.01
AD8227BRMZ-ND	Instrumentation Amp R/R Output* ***NEW!***	8-MSOP	5.36	4.29	3.34
AD8227BRZ-ND	Instrumentation Amp R/R Output* ***NEW!***	8-SOIC	5.36	4.29	3.34
AD8228ARMZ-R7CT-ND	Instrumentation Amp Precision*	8-MSOP	6.26	5.01	4.23
AD8228ARMZ-R7TR-ND	Instrumentation Amp Precision*	8-MSOP	3912.50/1,000		
AD8228ARZ-ND	Instrumentation Amp Precision*	8-SOIC	6.26	5.01	4.23
AD8228BRMZ-R7CT-ND	Instrumentation Amp Precision*	8-MSOP	9.40	7.52	6.35
AD8228BRMZ-R7TR-ND	Instrumentation Amp Precision*	8-MSOP	5875.00/1,000		
AD8228BRZ-ND	Instrumentation Amp Precision*	8-SOIC	9.40	7.52	6.35
AD8230YRZ-ND	Instrumentation Amp, 16V R-R, 0-Drift, Precision*	8-SOIC	6.14	4.92	4.15
AD8231-EVALZ-ND	Evaluation Board for AD8231*	—	75.84	—	—
AD8231ACPZ-R7CT-ND	Zero Drift, Digitally Prog. Instrumentation Amp*	16-LFCSP	3.85	3.08	2.40
AD8231ACPZ-R7TR-ND	Zero Drift, Digitally Prog. Instrumentation Amp*	16-LFCSP	3270.38/1,500		
AD8235ACBZ-P7CT-ND	Instrumentation Amp, Low Power* ***NEW!***	11-WLCSP	3.58	2.87	2.23
AD8235ACBZ-P7TR-ND	Instrumentation Amp, Low Power* ***NEW!***	11-WLCSP	6010.20/3,000		
AD8236ARMZ-R7CT-ND	Instr. Amp w/ Zero Crossover Distortion* ***NEW!***	8-MSOP	2.43	1.95	1.52
AD8236ARMZ-R7TR-ND	Instr. Amp w/ Zero Crossover Distortion* ***NEW!***	8-MSOP	1377.00/1,000		
AD8250ARMZ-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	8.65	7.79	6.91
AD8250ARMZ-R7CT-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	8.65	7.79	6.91
AD8250ARMZ-R7TR-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	6409.65/1,000		
AD8251ARMZ-R7CT-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	8.65	7.79	6.91
AD8251ARMZ-R7TR-ND	Instr. Amp, 10MHz, iCMOS® Prog. Gain*	10-MSOP	6409.65/1,000		
AD8253ARMZ-R7CT-ND	Instr. Amp, 10MHz, iCMOS® Prog. Gain*	10-MSOP	8.53	7.68	6.81
AD8253ARMZ-R7TR-ND	Instr. Amp, 10MHz, iCMOS® Prog. Gain*	10-MSOP	6323.20/1,000		
AD8273ARZ-R7CT-ND	Dual Channel, Audio Difference Amplifier*	14-SOIC	3.92	3.14	2.44
AD8277ARZ-ND	Low Power Unity-Gain Difference Amplifier* ***NEW!***	14-SOIC	3.76	3.01	2.34
AD8277BRZ-ND	Low Power Unity-Gain Difference Amplifier* ***NEW!***	14-SOIC	5.51	4.41	3.43
AD8278ARMZ-R7CT-ND	Low Power Difference Amplifier* ***NEW!***	8-MSOP	2.48	1.98	1.49
AD8278ARMZ-R7TR-ND	Low Power Difference Amplifier* ***NEW!***	8-MSOP	1287.00/1,000		

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(Continued)

ANALOG DEVICES Digi-Reel® *(Cont.)* AMPLIFIERS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
AD8278ARZ-ND	Low Power Difference Amplifier* ***NEW!***	8-SOIC	2.32	1.86	1.45
AD8278BRMZ-R7CT-ND	Low Power Difference Amplifier* ***NEW!***	8-MSOP	3.40	2.72	2.12
AD8278BRMZ-R7TR-ND	Low Power Difference Amplifier* ***NEW!***	8-MSOP	1925.25/1,000		
AD8278BRZ-ND	Low Power Difference Amplifier* ***NEW!***	8-SOIC	3.40	2.72	2.12
AD8293G80ARJZ-R7CT-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	1.88	1.50	1.13
AD8293G80ARJZ-R7TR-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	2880.00/3,000		
AD8293G80BRJZ-R7CT-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	2.36	1.89	1.47
AD8293G80BRJZ-R7TR-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	3969.00/3,000		
AD8293G160ARJZ-R7CT-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	1.88	1.50	1.13
AD8293G160ARJZ-R7TR-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	2880.00/3,000		
AD8293G160BRJZ-R7CT-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	2.36	1.89	1.47
AD8293G160BRJZ-R7TR-ND	0-Drift, Precision Instrumentation Amp*	SOT-23-8	3969.00/3,000		
AD8295ACPZ-R7CT-ND	Precision Instrumentation Amp*	16-LFCSP	4.18	3.35	2.83
AD8295ACPZ-R7TR-ND	Precision Instrumentation Amp*	16-LFCSP	3997.13/1,500		
AD8553ARMZ-REELCT-ND	1.8V-5V Auto Zero, Instrumentation Amp*	10-MSOP	3.17	2.54	1.98
AD8553ARMZ-REELTR-ND	1.8V-5V Auto Zero, Instrumentation Amp*	10-MSOP	5329.80/3,000		
AD8555ACPZ-REEL7CT-ND	0-Drift, Digitally Prog. Sensor Signal Amp*	16-LFCSP	6.46	5.17	4.37
AD8555ACPZ-REEL7TR-ND	0-Drift, Digitally Prog. Sensor Signal Amp*	16-LFCSP	6056.25/1,500		
AD8555ARZ-ND	0-Drift, Digitally Prog. Sensor Signal Amp*	8-SOIC	6.78	5.43	4.58
AD8556ACPZ-REEL7CT-ND	Digitally Prog. Sensor Signal Amp with EMI Filter*	16-LFCSP	5.84	4.68	3.95
AD8556ACPZ-REEL7TR-ND	Digitally Prog. Sensor Signal Amp with EMI Filter*	16-LFCSP	5475.00/1,500		
AD8556ARZ-ND	Digitally Prog. Sensor Signal Amp with EMI Filter*	8-SOIC	6.58	5.27	4.45
AD8557ACPZ-REEL7CT-ND	Digitally Programmable Sensor Signal Amp*	16-LFCSP	5.02	4.02	3.13
AD8557ACPZ-REEL7TR-ND	Digitally Programmable Sensor Signal Amp*	16-LFCSP	4264.88/1,500		
AD8557ARZ-ND	Digitally Programmable Sensor Signal Amp*	8-SOIC	5.20	4.16	3.24
AD22050NZ-ND	Single Supply Sensor Interface Amp*	8-Dip	9.40	7.52	6.35
AD22050RZ-ND	Single Supply Sensor Interface Amp*	8-SOIC	9.21	8.30	7.36
AD22057RZ-ND	Single Supply Sensor Interface Amp*	8-SOIC	9.70	8.73	7.75
AMP02EPZ-ND	Amp Instrument Precision*	8-Dip	16.48	14.84	13.16
AMP02FPZ-ND	Amp Instrument Precision*	8-Dip	9.88	8.90	7.89
AMP02FSZ-ND	Amp Instrument Precision*	16-SOIC	9.88	8.90	7.89
AMP04EPZ-ND	Amp Instrument Precision Single*	8-Dip	12.59	11.34	10.06
AMP04ESZ-ND	Amp Instrument Precision Single*	8-SOIC	12.59	11.34	10.06
AMP04FPZ-ND	Amp Instrument Precision Single*	8-Dip	8.98	8.09	7.17
AMP04FSZ-ND	Amp Instrument Precision Single*	8-SOIC	8.98	8.09	7.17
Isolation					
AD202JN-ND	Isolated Amp 2-Port 2kHz	38-Dip	47.81	44.62	41.44
AD202JY-ND	Isolated Amp 2-Port 2kHz	38-Sip	47.81	44.62	41.44
AD202KN-ND	Isolated Amp 2-Port 2kHz	38-Dip	54.65	51.01	47.36
AD202KY-ND	Isolated Amp 2-Port 2kHz	38-Dip	54.65	51.01	47.36
AD210AN-ND	Isolated Amp 3-Port 20kHz	12-Dip	80.45	75.09	69.72
AD210BN-ND	Isolated Amp 3-Port 20kHz	12-Dip	96.87	90.42	83.96
AD215BY-ND	Isolated Amp 120kHz	12-Sip	82.10	76.63	71.15
Line Driver					
AD8016ARBZ-ND	Amp xDSL Line Driver*	24-SOIC	9.14	7.32	6.17
AD8016AREZ-ND	Amp xDSL Line Driver*	28-TSSOP	9.14	7.32	6.17
AD8018ARZ-ND	xDSL Line Driver Rail-to-Rail*	8-SOIC	6.20	4.96	4.19
Log					
ADL5306ACP-R2CT-ND	Logarithmic Converter 60dB	16-LFCSP	8.60	7.74	6.87
ADL5306ACP-R2TR-ND	Logarithmic Converter 60dB	16-LFCSP	1443.00/250		
ADL5306ACPZ-R2CT-ND	Logarithmic Converter 60dB*	16-LFCSP	8.88	7.11	6.00
ADL5310ACP-R2CT-ND	Dual Logarithmic Converter 120dB	24-LFCSP	18.69	17.45	16.20
ADL5310ACPZ-REEL7CT-ND	Dual Logarithmic Converter 120dB*	24-LFCSP	19.11	17.21	15.26
ADL5310ACPZ-REEL7TR-ND	Dual Logarithmic Converter 120dB*	24-LFCSP	21248.18/1,500		
ADL5315-EVAL-ND	Evaluation Board for ADL5315	—	148.50	—	—
ADL5315ACPZ-R7CT-ND	Precision Wide Range High Side Current Mirror*	8-LFCSP	4.39	3.51	2.73
ADL5315ACPZ-R7TR-ND	Precision Wide Range High Side Current Mirror*	8-LFCSP	7371.00/3,000		
ADL5317ACPZ-REEL7CT-ND	Avalanche Photodiode Bias Controller/ Wide Range Current Monitor*	16-LFCSP	8.30	6.64	5.61
ADL5317ACPZ-REEL7TR-ND	Avalanche Photodiode Bias Controller/ Wide Range Current Monitor*	16-LFCSP	7781.25/1,500		
Low Noise					
AD795JRZ-ND	Precision Op Amp FET Low Power Low Noise*	8-SOIC	6.50	5.20	4.39
AD797ANZ-ND	Op Amp Low Distortion Low Noise*	8-Dip	8.36	6.69	5.65
AD797ARZ-ND	Op Amp Low Distortion Low Noise*	8-SOIC	8.36	6.69	5.65
AD797BRZ-ND	Op Amp Low Distortion Low Noise*	8-SOIC	9.45	8.51	7.55
AD8350AR15-EVAL-ND	Evaluation Board for AD8350	—	111.38	—	—
AD8350ARMZ20-ND	Differential Amp Low Distortion*	8-MSOP	5.64	4.52	3.81
AD8350ARZ20-REEL7CT-ND	Differential Amp Low Distortion*	8-SOIC	5.64	4.52	3.81
AD8350ARZ20-REEL7TR-ND	Differential Amp Low Distortion*	8-SOIC	3525.00/1,000		
AD8432ACPZ-WP-ND	Dual Channel Ultralow Noise Amp* ***NEW!***	24-LFCSP	4.88	3.91	3.04
AD8510ARMZ-REELCT-ND	Precision Op Amp JFET Single Low Noise*	8-MSOP	2.27	1.82	1.42
AD8510ARMZ-REELTR-ND	Precision Op Amp JFET Single Low Noise*	8-MSOP	3817.80/3,000		
AD8510ARZ-ND	Precision Op Amp JFET Single Low Noise*	8-SOIC	2.27	1.82	1.42
AD8510BRZ-ND	Precision Op Amp JFET Single Low Noise*	8-SOIC	5.24	4.20	3.27
AD8512ARZ-ND	Precision Op Amp JFET Dual Low Noise*	8-SOIC	3.42	2.74	2.13
AD8512ARMZ-REELCT-ND	Precision Op Amp JFET Dual Low Noise*	8-MSOP	3.42	2.74	2.13
AD8512ARMZ-REELTR-ND	Precision Op Amp JFET Dual Low Noise*	8-MSOP	5745.60/3,000		
AD8512BRZ-ND	Precision Op Amp JFET Dual Low Noise*	8-SOIC	9.52	7.62	6.43
AD8597ACPZ-R2-ND	Op Amp Single Ultralow Distortion, Ultralow Noise* ***NEW!***	8-LFCSP	6.26	5.01	4.23
AD8599ARZ-ND	Op Amp Dual Ultralow Distortion, Ultralow Noise*	8-SOIC	6.88	5.51	4.65
AD8610ARMZ-REELCT-ND	Precison Op Amp JFET Very Low Noise*	8-MSOP	7.50	6.00	5.07
AD8610ARMZ-REELTR-ND	Precison Op Amp JFET Very Low Noise*	8-MSOP	13950.00/3,000		
AD8619ARZ-ND	Op Amp Low Noise CMOS Rail-to-Rail In/Out*	14-SOIC	2.66	2.13	1.66
AD8651ARZ-ND	Op Amp 50MHz Low Distortion Low Noise*	8-SOIC	2.75	2.20	1.71
AD8651ARMZ-REELCT-ND	Op Amp 50MHz Low Distortion Low Noise*	8-MSOP	2.75	2.20	1.71
AD8651ARMZ-REELTR-ND	Op Amp 50MHz Low Distortion Low Noise*	8-MSOP	4611.60/3,000		
AD8655ARMZ-REELCT-ND	Op Amp Precision Low Noise*	8-MSOP	1.93	1.54	1.16
AD8655ARMZ-REELTR-ND	Op Amp Precision Low Noise*	8-MSOP	2956.80/3,000		
AD8655ARZ-ND	Op Amp Precision Low Noise*	8-SOIC	1.93	1.54	1.16
AD8656ARMZ-REELCT-ND	Op Amp Precision Dual Low Noise*	8-MSOP	2.75	2.20	1.71
AD8656ARMZ-REELTR-ND	Op Amp Precision Dual Low Noise*	8-MSOP	4611.60/3,000		
AD8656ARZ-ND	Op Amp Precision Dual Low Noise*	8-SOIC	2.75	2.20	1.71
AD8671ARZ-ND	Op Amp Precision Single Low Noise*	8-SOIC	2.45	1.97	1.53
AD8671ARMZ-REELCT-ND	Op Amp Precision Single Low Noise*	8-MSOP	2.45	1.97	1.53
AD8671ARMZ-REELTR-ND	Op Amp Precision Single Low Noise*	8-MSOP	4120.20/3,000		
AD8672ARZ-ND	Op Amp Precision Dual Low Noise*	8-SOIC	3.98	3.19	2.48
AD8672ARMZ-REELCT-ND	Op Amp Precision Dual Low Noise*	8-MSOP	3.98	3.19	2.48
AD8672ARMZ-REELTR-ND	Op Amp Precision Dual Low Noise*	8-MSOP	6690.60/3,000		
AD8674ARZ-ND	Op Amp Precision Quad Low Noise*	14-SOIC	6.70	5.36	4.53
AD8674ARUZ-ND	Op Amp Precision Quad Low Noise*	14-TSSOP	6.70	5.36	4.53
AD8675ARMZ-REELCT-ND	Op Amp Precision 36V, R/R Output*	8-MSOP	2.75	2.20	1.71
AD8675ARMZ-REELTR-ND	Op Amp Precision 36V, R/R Output*	8-MSOP	4611.60/3,000		
AD8692ARMZ-REELCT-ND	Op Amp Low Noise, CMOS R/R Out*	8-MSOP	1.60	1.28	.96
AD8692ARMZ-REELTR-ND	Op Amp Low Noise, CMOS R/R Out*	8-MSOP	2457.60/3,000		
AD8692ARZ-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	8-SOIC	1.70	1.36	1.02
AD8694ARUZ-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	14-TSSOP	2.38	1.90	1.43
AD8694WARUZ-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out* ***NEW!***	14-TSSOP	2.66	2.13	1.66
AD8698ARMZ-REELCT-ND	Op Amp Precision Dual, R/R Output*	8-MSOP	5.09	4.07	3.17
AD8698ARMZ-REELTR-ND	Op Amp Precision Dual, R/R Output*	8-MSOP	8542.80/3,000		
OP27AZ-ND	Op Amp Precision Low Noise	8-CDip	35.28	32.93	30.58
OP27EPZ-ND	Op Amp Precision Low Noise*	8-Dip	5.34	4.28	3.61
OP27EZ-ND	Op Amp Precision Low Noise	8-CDip	15.09	14.09	13.08
OP27GPZ-ND	Op Amp Precision Low Noise*	8-Dip	2.79	2.24	1.74
OP27GSZ-ND	Op Amp Precision Low Noise*	8-SOIC	2.79	2.24	1.74
OP113ESZ-ND	Op Amp Single Supply Low Noise*	8-SOIC	6.76	5.41	4.57
OP113FSZ-ND	Op Amp Single Supply Low Noise*	8-SOIC	3.92	3.14	2.44
OP213ESZ-ND	Op Amp Dual Single Supply Low Noise*	8-SOIC	10.68	9.62	8.53
OP213FPZ-ND	Op Amp Dual Single Supply Low Noise*	8-Dip	4.66	3.73	2.90
OP213FSZ-ND	Op Amp Dual Single Supply Low Noise*	8-SOIC	4.66	3.73	2.90
OP270EZ-ND	Op Amp Dual Precision Low Noise	8-CDip	13.06	11.76	10.43
OP270FZ-ND	Op Amp Dual Precision Low Noise	8-CDip	9.80	8.82	7.83
OP270GPZ-ND	Op Amp Dual Precision Low Noise*	8-Dip	5.16	4.13	3.49
OP270GSZ-ND	Op Amp Dual Precision Low Noise*	16-SOIC	5.44	4.36	3.68
OP413ESZ-ND	Op Amp Quad Low Drift*	16-SOIC	15.39	13.86	12.29
OP413FSZ-ND	Op Amp Quad Low Drift*	16-SOIC	8.90	7.12	6.01
OP470EY-ND	Op Amp Quad Very Low Noise	14-CDip	17.18	16.03	14.89
OP470GPZ-ND	Op Amp Quad Very Low Noise*	14-Dip	8.14	6.52	5.50
OP470GSZ-ND	Op Amp Quad Very Low Noise*	16-SOIC	8.62	6.90	5.82
OP471GSZ-ND	Op Amp Quad High Speed Low Noise*	16-SOIC	9.20	7.36	6.21
OP490GSZ-REELCT-ND	Op Amp Quad Micropower*	16-SOIC	8.06	6.45	5.45
OP495GPZ-ND	Op Amp Quad Rail-to-Rail*	14-Dip	8.76	7.01	5.92
OP2177ARZ-ND	Op Amp Dual Precision Low Noise*	8-SOIC	3.44	2.76	2.15
OP2177AR-REEL7TR-ND	Op Amp Dual Precision Low Noise	8-SOIC	2358.75/1,000		
OP2177ARZ-REEL7CT-ND	Op Amp Dual Precision Low Noise*	8-SOIC	3.44	2.76	2.15
OP2177ARZ-REEL7TR-ND	Op Amp Dual Precision Low Noise*	8-SOIC	1950.75/1,000		
OP2177ARMZ-REELCT-ND	Op Amp Dual Precision Low Noise*	8-MSOP	3.44	2.76	2.15
OP2177ARMZ-REELTR-ND	Op Amp Dual Precision Low Noise*	8-MSOP	5783.40/3,000		
Low Power					
ADA4860-1YRJZ-RL7CT-ND	High Speed, Low Cost, Op Amp*	SOT-23-6	1.40	1.12	.84
ADA4860-1YRJZ-RL7TR-ND	High Speed, Low Cost, Op Amp*	SOT-23-6	2150.40/3,000		
AD818ANZ-ND	Video Op Amp 130MHz Low Power*	8-Dip	4.52	3.62	2.82
AD818ARZ-ND	Video Op Amp 130MHz Low Power*	8-SOIC	4.52	3.62	2.82
AD820ANZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-Dip	4.05	3.24	2.52
AD820ARZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	3.96	3.17	2.47
AD820BRZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	5.81	4.65	3.62
AD824ARZ-14-ND	Op Amp FET Rail-to-Rail Low Power*	14-SOIC	8.96	7.17	6.05
AD8005ARTZ-REEL7CT-ND	Op Amp Current-Feedback Low Power*	SOT-23-5	3.22	2.58	2.01
AD8005ARTZ-REEL7TR-ND	Op Amp Current-Feedback Low Power*	SOT-23-5	5405.40/3,000		
AD8005ARZ-ND	Op Amp Current-Feedback Low Power*	8-SOIC	3.53	2.83	2.20
AD8538ARZ-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	2.30	1.84	1.38
AD8538AUJZ-REEL7CT-ND	Op Amp Precision Auto-Zero Low Power*	TSOT-23-5	2.25	1.80	1.35
AD8538AUJZ-REEL7TR-ND	Op Amp Precision Auto-Zero Low Power*	TSOT-23-5	3456.00/3,000		
AD8539ARMZ-REELCT-ND	Op Amp Precision Auto-Zero Low Power*	8-MSOP	3.04	2.43	1.89
AD8539ARMZ-REELTR-ND	Op Amp Precision Auto-Zero Low Power*	8-MSOP	5103.00/3,000		
AD8539ARZ-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	3.04	2.43	1.89
AD8625ARUZ-ND	Op Amp Quad JFET Rail-to-Rail*	14-TSSOP	8.66	6.93	5.85
AD8625ARZ-ND	Op Amp Quad JFET Rail-to-Rail*	14-SOIC	8.66	6.93	5.85
AD8626ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	5.26	4.21	3.56
AD8627AKSZ-REEL7CT-ND	Op Amp Precision JFET Low Power*	SC70-5	3.60	2.88	2.24
AD8627AKSZ-REEL7TR-ND	Op Amp Precision JFET Low Power*	SC70-5	6048.00/3,000		
AD8627ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	3.83	3.06	2.38
OP90GPZ-ND	Op Amp Precision Low Voltage Micropower*	8-Dip	4.19	3.35	2.61
OP90GSZ-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	4.19	3.35	2.61
OP90GSZ-REEL7CT-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	4.19	3.35	2.61
OP90GSZ-REEL7TR-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	2371.50/1,000		
OP97EPZ-ND	Op Amp Low Power OP07*	8-Dip	6.90	5.52	4.66
OP97FPZ-ND	Op Amp Low Power OP07*	8-Dip	2.57	2.06	1.60
OP97FSZ-ND	Op Amp Low Power OP07*	8-SOIC	2.57	2.06	1.60
OP193FSZ-ND	Op Amp Micropower Rail-to-Rail*	8-SOIC	3.40	2.72	2.12
OP221GSZ-ND	Op Amp Dual Single Supply Low Power*	8-SOIC	4.75	3.80	2.96
OP490GPZ-ND	Op Amp Quad Low Voltage Low Power*	14-Dip	8.06	6.45	5.45
OP490GSZ-ND	Op Amp Quad Low Voltage Low Power*	16-SOIC	8.06	6.45	5.45
OP496GSZ-ND	Op Amp Quad Rail-to-Rail Low Power*	14-SOIC	5.26	4.21	3.56
OP497FPZ-ND	Op Amp Quad Precision Voltage Low Power*	14-Dip	9.50	8.55	7.59
OP497FSZ-ND	Op Amp Quad Precision Voltage Low Power*	16-SOIC	9.43	8.49	7.53
OP497GPZ-ND	Op Amp Quad Precision Voltage Low Power*	14-Dip	7.82	6.26	5.28
OP497GSZ-ND	Op Amp Quad Precision Voltage Low Power*	16-SOIC	7.44	5.96	5.03
Precision					
AD548JRZ-ND	Precision BiFET Op Amp Low Power*	8-SOIC	2.72	2.18	1.70
AD548KNZ-ND	Precision BiFET Op Amp Low Power*	8-Dip	5.94	4.76	4.01
AD549JHZ-ND	Ultralow Input-Bias Current Op Amp*	TO99-8	19.64	18.33	17.02
AD549KHZ-ND	Ultralow Input-Bias Current Op Amp*	TO99-8	27.44	25.61	23.78
AD549LHZ-ND	Ultralow Input-Bias Current Op Amp*	TO99-8	33.89	31.63	29.37
AD648JNZ-ND	Op Amp Dual Precision Low Power BiFET*	8-Dip	3.98	3.19	2.48
AD648JRZ-ND	Op Amp Dual Precision Low Power BiFET*	8-SOIC	3.98	3.19	2.48
AD648KNZ-ND	Op Amp Dual Precision Low Power BiFET*	8-Dip	9.02	7.22	6.09
AD704ARZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	9.28	7.43	6.27
AD704JNZ-ND	Bipolar Op Amp Quad*	14-Dip	8.64	6.92	5.84
AD704JRZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	8.64	6.92	5.84
AD706ARZ-ND	Bipolar Op Amp Dual*	8-SOIC	5.40	4.32	3.36
AD706JNZ-ND	Bipolar Op Amp Dual*	8-Dip	5.04	4.04	3.14
AD706JRZ-ND	Bipolar Op Amp Dual*	8-SOIC	4.75	3.80	2.96
AD711AQ-ND	Precision Op Amp BiFET High Speed	8-CDip	5.76	4.61	3.89
AD711JNZ-ND	Precision Op Amp BiFET High Speed*	8-Dip	2.72	2.18	1.70
AD711JRZ-ND	Precision Op Amp BiFET High Speed*	8-SOIC	2.68	2.15	1.67
AD711KNZ-ND	Precision Op Amp BiFET High Speed*	8-Dip	4.91	3.93	3.06
AD711KRZ-ND	Precision Op Amp BiFET High Speed*	8-SOIC	4.68	3.75	2.92
AD745KRZ-16-ND	Op Amp Low Noise BiFET*	16-SOIC	10.73	9.66	8.57
AD783JRZ-ND	Amp Mono Sample and Hold*	8-SOIC	19.76	18.44	17.13
AD822ANZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-Dip	6.10	4.88	3.80
AD822ARMZ-REELCT-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	6.01	4.81	3.74
AD822ARMZ-REELTR-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	10092.60/3,000		
AD822ARZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	6.01	4.81	3.74
AD822ARZ-REEL7TR-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	2603.25/750		
AD822BRZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	7.94	6.36	5.36
AD823ANZ-ND	Dual Precision, 16MHz JFET Input Op Amp*	8-Dip	5.64	4.52	3.81
AD823ARZ-ND	Dual Precision, 16MHz JFET Input Op Amp*	8-SOIC	5.64	4.52	3.81
AD8221ARZ-ND	Precision Instrumentation Amp*	8-SOIC	5.42	4.34	3.38
AD8221ARMZ-ND	Precision Instrumentation Amp*	8-MSOP	4.66	3.73	2.90
AD8221BR-ND	Precision Instrumentation Amp	8-SOIC	9.30	7.44	6.28
AD8226ARMZ-R7CT-ND	Rail-to-Rail Output Instrumentation Amp*	8-MSOP	3.40	2.72	2.12

* *RoHS Compliant*

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ANALOG DEVICES DigiReel® (Cont.) AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD8226ARMZ-R7TR-ND	Rail-to-Rail Output Instrumentation Amp*	8-MSOP	1925.25/1,000		
AD8226ARZ-R7CT-ND	Rail-to-Rail Output Instrumentation Amp*	8-SOIC	3.26	2.61	2.03
AD8226ARZ-R7TR-ND	Rail-to-Rail Output Instrumentation Amp*	8-SOIC	1848.75/1,000		
AD8270ACPZ-WP-ND	Dual Precision Difference Amp*	16-LFCSP	4.46	3.57	2.78
AD8271ARMZ-R7CT-ND	Precision Difference Amp*	10-MSOP	2.93	2.34	1.82
AD8271ARMZ-R7TR-ND	Precision Difference Amp*	10-MSOP	1657.50/1,000		
AD8271BRMZ-R7CT-ND	Precision Difference Amp*	10-MSOP	4.37	3.50	2.72
AD8271BRMZ-R7TR-ND	Precision Difference Amp*	10-MSOP	2473.50/1,000		
AD8274ARMZ-R7CT-ND	Precision Difference Amp*	8-MSOP	2.45	1.97	1.53
AD8274ARMZ-R7TR-ND	Precision Difference Amp*	8-MSOP	1389.75/1,000		
AD8274ARZ-R7CT-ND	Precision Difference Amp*	8-SOIC	2.45	1.97	1.53
AD8274ARZ-R7TR-ND	Precision Difference Amp*	8-SOIC	1389.75/1,000		
AD8500AKSZ-REEL7CT-ND	Micropower Precision CMOS Op Amp*	SC70-5	1.78	1.42	1.07
AD8500AKSZ-REEL7TR-ND	Micropower Precision CMOS Op Amp*	SC70-5	2726.40/3,000		
AD8502ARJZ-REEL7CT-ND	1µA Micropower CMOS Op Amp*	SOT-23-8	1.75	1.40	1.05
AD8502ARJZ-REEL7TR-ND	1µA Micropower CMOS Op Amp*	SOT-23-8	2688.00/3,000		
AD8504ARUZ-ND	1µA Micropower CMOS Op Amp*	14-TSSOP	2.75	2.20	1.71
AD8508ACBZ-REEL7CT-ND	20µA R-R I/O Distortion Amplifier*	14-WLCSP	2.70	2.16	1.68
AD8508ACBZ-REEL7TR-ND	20µA R-R I/O Distortion Amplifier*	14-WLCSP	4536.00/3,000		
AD8513ARZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-SOIC	7.42	5.94	5.01
AD8513ARUZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-TSSOP	7.42	5.94	5.01
AD8601ARTZREEL7CT-ND	Prec. CMOS Single R-R I/O Wideband Op Amp*	SOT-23-5	1.38	1.10	.83
AD8601ARTZREEL7TR-ND	Prec. CMOS Single R-R I/O Wideband Op Amp*	SOT-23-5	2112.00/3,000		
AD8610ARZ-ND	Precision JFET Input Op Amp*	8-SOIC	7.74	6.20	5.23
AD8610BRZ-ND	Precision JFET Input Op Amp*	8-SOIC	15.26	14.24	13.23
AD8615AUJZ-REEL7CT-ND	Op Amp Precision 20MHz CMOS R-R In/Out*	TSOT-23-5	1.90	1.52	1.14
AD8615AUJZ-REEL7TR-ND	Op Amp Precision 20MHz CMOS R-R In/Out*	TSOT-23-5	2918.40/3,000		
AD8616ARZ-ND	Op Amp 20MHz, Rail-to-Rail Dual*	8-SOIC	3.06	2.45	1.91
AD8618ARUZ-ND	Op Amp Precision 20MHz CMOS R-R In/Out*	14-TSSOP	5.45	4.36	3.39
AD8618ARZ-ND	Op Amp Precision 20MHz CMOS R-R In/Out*	14-SOIC	5.45	4.36	3.39
AD8619ARUZ-ND	Op Amp Low Noise CMOS R-R In/Out*	14-TSSOP	2.66	2.13	1.66
AD8620ARZ-ND	Op Amp Precision JFET*	8-SOIC	12.91	11.63	10.31
AD8620BRZ-ND	Op Amp Precision JFET Low Noise*	8-SOIC	25.85	24.13	22.40
AD8622ARMZ-ND	Op Amp Precision Rail-to-Rail Output* ***NEW!***	8-MSOP	5.26	4.21	3.56
AD8622ARZ-ND	Op Amp Precision Rail-to-Rail Output* ***NEW!***	8-SOIC	5.26	4.21	3.56
AD8626ARMZ-REELCT-ND	Op Amp Precision, Single Low Power*	8-MSOP	5.26	4.21	3.56
AD8626ARMZ-REELTR-ND	Op Amp Precision, Single Low Power*	8-MSOP	9783.60/3,000		
AD8628ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	SOT-23-5	2.40	1.92	1.44
AD8628ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	SOT-23-5	3686.40/3,000		
AD8628ARZ-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	8-SOIC	2.43	1.94	1.46
AD8628AUJZ-REEL7CT-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	TSOT-23-5	2.40	1.92	1.44
AD8628AUJZ-REEL7TR-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	TSOT-23-5	3686.40/3,000		
AD8641AKSZ-REEL7CT-ND	Precision JFET Amp, Rail-to-Rail Out*	SC70-5	3.31	2.65	2.06
AD8641AKSZ-REEL7TR-ND	Precision JFET Amp, Rail-to-Rail Out*	SC70-5	5556.60/3,000		
AD8641ARZ-ND	Precision JFET Amp, Rail-to-Rail Out*	8-SOIC	3.58	2.87	2.23
AD8698ARZ-ND	Op Amp Precision Dual Rail-to-Rail Out*	8-SOIC	5.24	4.20	3.27
ADA4000-1ARZ-ND	Op Amp Precision JFET*	8-SOIC	1.88	1.50	1.13
ADA4000-1AUJZ-R7CT-ND	Op Amp Precision JFET*	TSOT-23-5	1.83	1.46	1.10
ADA4000-1AUJZ-R7TR-ND	Op Amp Precision JFET*	TSOT-23-5	2803.20/3,000		
ADA4000-2ARZ-ND	Op Amp Precision JFET*	8-SOIC	3.04	2.43	1.89
ADA4000-2ARMZ-RLCT-ND	Op Amp Precision JFET*	8-MSOP	3.04	2.43	1.89
ADA4000-4ARUZ-ND	Op Amp Precision JFET*	14-TSSOP	5.15	4.13	3.21
ADA4000-4ARZ-ND	Op Amp Precision JFET*	14-SOIC	5.15	4.13	3.21
ADA4004-1ARJZ-R7CT-ND	Amp Quad Precision*	SOT-23-5	3.94	3.15	2.45
ADA4004-1ARJZ-R7TR-ND	Amp Quad Precision*	SOT-23-5	6615.00/3,000		
ADA4004-1ARZ-ND	Amp Quad Precision*	8-SOIC	4.19	3.35	2.61
ADA4004-2ARMZ-R7CT-ND	Amp Quad Precision*	8-MSOP	5.64	4.52	3.81
ADA4004-2ARMZ-R7TR-ND	Amp Quad Precision*	8-MSOP	3525.00/1,000		
ADA4004-2ARZ-ND	Amp Quad Precision*	8-SOIC	5.64	4.52	3.81
ADA4004-4ACPZ-R7CT-ND	Amp Quad Precision*	16-LFCSP	8.50	6.80	5.74
ADA4004-4ACPZ-R7TR-ND	Amp Quad Precision*	16-LFCSP	7968.75/1,500		
ADA4004-4ARZ-ND	Amp Quad Precision*	14-SOIC	9.04	7.24	6.11
ADA4627-1ACPZ-R2CT-ND	Op Amp Low Noise JFET* ***NEW!***	8-LFCSP	14.79	13.32	11.82
ADA4627-1ACPZ-R2TR-ND	Op Amp Low Noise JFET* ***NEW!***	8-LFCSP	2830.50/250		
ADA4665-2ARMZ-R7CT-ND	Amp Dual R-R I/O CMOS*	8-MSOP	1.93	1.54	1.16
ADA4665-2ARMZ-R7TR-ND	Amp Dual R-R I/O CMOS*	8-MSOP	1001.00/1,000		
ADA4665-2ARZ-R7CT-ND	Amp Dual R-R I/O CMOS*	8-SOIC	1.93	1.54	1.16
ADA4665-2ARZ-R7TR-ND	Amp Dual R-R I/O CMOS*	8-SOIC	1001.00/1,000		
ADA4691-2ACBZ-R7CT-ND	Op Amp Dual, R-R Output* ***NEW!***	9-WLCSP	1.43	1.14	.86
ADA4691-2ACBZ-R7TR-ND	Op Amp Dual, R-R Output* ***NEW!***	9-WLCSP	2188.80/3,000		
ADA4691-2ACPZ-R7CT-ND	Op Amp Dual, R-R Output* ***NEW!***	10-LFCSP	1.43	1.14	.86
ADA4691-2ACPZ-R7TR-ND	Op Amp Dual, R-R Output* ***NEW!***	10-LFCSP	2188.80/3,000		
ADA4691-4ACPZ-R2CT-ND	Op Amp Quad, R-R Output* ***NEW!***	16-LFCSP	3.20	2.56	1.99
ADA4691-4ACPZ-R2TR-ND	Op Amp Quad, R-R Output* ***NEW!***	16-LFCSP	472.15/250		
ADA4692-2ACPZ-R7CT-ND	Op Amp Dual, R-R Output* ***NEW!***	8-LFCSP	1.38	1.10	.83
ADA4692-2ACPZ-R7TR-ND	Op Amp Dual, R-R Output* ***NEW!***	8-LFCSP	2112.00/3,000		
ADA4692-2ARZ-R7CT-ND	Op Amp Dual, R-R Output* ***NEW!***	8-SOIC	1.50	1.20	.90
ADA4692-2ARZ-R7TR-ND	Op Amp Dual, R-R Output* ***NEW!***	8-SOIC	780.00/1,000		
ADA4817-1ARDZ-ND	Op Amp FastFET Single*	8-SOIC	6.16	4.93	4.16
AMP03BJZ-ND	Amp Differential Precision Unity Gain*	TO-99-8	15.41	13.88	12.31
AMP03GPZ-ND	Amp Differential Precision Unity Gain*	8-Dip	5.98	4.79	4.04
AMP03GSZ-ND	Amp Differential Precision Unity Gain*	8-SOIC	5.98	4.79	4.04
OP07CPZ-ND	Op Amp Ultra Low Offset*	8-Dip	1.40	1.12	.84
OP07CSZ-ND	Op Amp Ultra Low Offset*	8-SOIC	1.40	1.12	.84
OP07DNZ-ND	Op Amp Ultra Low Offset*	8-Dip	1.23	1.03	.82
OP07DRZ-ND	Op Amp Ultra Low Offset*	8-SOIC	1.23	1.03	.82
OP07EPZ-ND	Op Amp Ultra Low Offset*	8-Dip	3.47	2.78	2.16
OP27GS-REEL7TR-ND	Op Amp Precision Low Noise	8-SOIC	1708.50/1,000		
OP27GZ-ND	Op Amp Precision Low Noise*	8-Dip	9.10	8.19	7.27
OP37EPZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-Dip	5.58	4.47	3.48
OP37GPZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-Dip	2.34	1.88	1.46
OP37GSZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-SOIC	2.28	1.82	1.37
OP77EZ-ND	Op Amp Super Precision OP07	8-CDip	9.10	8.19	7.27
OP77FJZ-ND	Op Amp Super Precision OP07*	TO-99-8	9.76	7.81	6.59
OP77FZ-ND	Op Amp Super Precision OP07	8-CDip	6.36	5.09	4.30
OP177FPZ-ND	Op Amp Ultra-Precision High Gain*	8-Dip	5.11	4.09	3.18
OP177FSZ-ND	Op Amp Ultra-Precision High Gain*	8-SOIC	5.11	4.09	3.18
OP177GPZ-ND	Op Amp Ultra-Precision*	8-Dip	1.80	1.44	1.08
OP177GSZ-ND	Op Amp Ultra-Precision*	8-SOIC	1.80	1.44	1.08
OP184ESZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	5.42	4.34	3.38
OP184FSZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	3.60	2.88	2.24
OP191GSZ-ND	Op Amp Single Supply Rail-to-Rail Low Power*	8-SOIC	3.76	3.01	2.34
OP196GSZ-ND	Op Amp Single Supply Rail-to-Rail Low Power*	8-SOIC	3.11	2.49	1.94
OP200AZ-ND	Op Amp Dual Ultra-Precision*	8-CDip	19.22	17.94	16.66
OP200GPZ-ND	Op Amp Dual Ultra-Precision*	8-Dip	5.66	4.53	3.83
OP200GSZ-ND	Op Amp Dual Ultra-Precision*	16-SOIC	5.66	4.53	3.83

ANALOG DEVICES DigiReel® (Cont.) AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
OP262GSZ-ND	Op Amp Dual 15MHz Rail-to-Rail*	8-SOIC	4.70	3.77	2.93
OP262HRUZ-ND	Op Amp Dual 15MHz Rail-to-Rail*	8-TSSOP	5.60	4.49	3.49
OP282ARMZ-REELCT-ND	Op Amp Dual 4MHz JFET High Speed*	8-MSOP	2.68	2.15	1.67
OP282ARMZ-REELTR-ND	Op Amp Dual 4MHz JFET High Speed*	8-MSOP	4498.20/3,000		
OP282GSZ-ND	Op Amp Dual JFET Input*	8-SOIC	2.68	2.15	1.67
OP284EPZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-Dip	8.68	6.95	5.86
OP284ESZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	8.52	6.82	5.76
OP284FSZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	5.82	4.66	3.93
OP285GSZ-ND	Op Amp Dual Precision 9MHz*	8-SOIC	5.29	4.23	3.29
OP297EZ-ND	Op Amp Dual Low Off/Bias	8-CDip	12.13	10.92	9.69
OP297FPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	5.70	4.56	3.85
OP297FSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	5.50	4.40	3.72
OP297GPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	5.04	4.04	3.14
OP297GSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	4.75	3.80	2.96
OP484ESZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-SOIC	12.66	11.40	10.11
OP484FPZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-Dip	10.18	8.15	6.88
OP484FSZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-SOIC	9.70	7.76	6.55
OP491GPZ-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-Dip	6.98	5.59	4.72
OP491GRUZ-REELCT-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-TSSOP	6.26	5.01	4.23
OP491GRUZ-REELTR-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-TSSOP	9703.00/2,500		
OP491GSZ-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-SOIC	6.98	5.59	4.72
OP727ARUZ-ND	Op Amp Dual Precision Rail-to-Rail Out*	8-TSSOP	3.92	3.14	2.44
OP727ARZ-ND	Op Amp Dual Precision Rail-to-Rail Out*	8-SOIC	3.92	3.14	2.44
OP747ARZ-ND	Op Amp Quad Precision Rail-to-Rail Out*	14-SOIC	6.38	5.11	4.31
OP747ARUZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-TSSOP	6.38	5.11	4.31
OP777ARMZ-REELCT-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-MSOP	2.63	2.11	1.64
OP777ARMZ-REELTR-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-MSOP	4422.60/3,000		
OP777ARZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	2.63	2.11	1.64
OP1177ARZ-ND	Op Amp Precision Low Noise Bias Current*	8-SOIC	2.13	1.70	1.28
OP1177ARMZ-REELCT-ND	Op Amp Precision Low Noise Bias Current*	8-MSOP	2.13	1.70	1.28
OP1177ARMZ-REELTR-ND	Op Amp Precision Low Noise Bias Current*	8-MSOP	3264.00/3,000		
OP4177ARZ-ND	Op Amp Quad Precision Low Noise*	14-SOIC	7.20	5.76	4.86
OP4177ARUZ-ND	Op Amp Quad Precision Low Noise*	14-TSSOP	7.20	5.76	4.86
Variable Gain Amplifiers					
AD600ARZ-ND	VGA Dual, Adjustable Gain*	16-SOIC	31.79	29.67	27.55
AD600JNZ-ND	VGA Dual, Adjustable Gain*	16-Dip	24.45	22.82	21.19
AD602ARZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	31.79	29.67	27.55
AD602JRZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	24.45	22.82	21.19
AD603-EVALZ-ND	Evaluation Board for AD603*	—	82.23	—	—
AD603AQ-ND	VGA 90MHz Low Noise	8-Dip	10.10	9.09	8.06
AD603ARZ-ND	VGA 90MHz Low Noise*	8-SOIC	8.95	8.06	7.15
AD604ARZ-ND	Amp Dual Adj. Gain Linear*	24-SOIC	24.21	22.60	20.99
AD604ARSZ-ND	Amp Dual Adj. Gain Linear*	24-SSOP	29.06	27.12	25.19
AD605ANZ-ND	VGA Dual 40MHz Low Noise*	16-Dip	16.50	15.40	14.30
AD605ARZ-ND	VGA Dual 40MHz Low Noise*	16-SOIC	16.50	15.40	14.30
AD8260-EVALZ-ND	Evaluation Board for AD8260*	—	112.28	—	—
AD8260ACPZ-R7CT-ND	Digital VGA High Current Driver*	32-LFCSP	7.68	6.15	5.19
AD8260ACPZ-R7TR-ND	Digital VGA High Current Driver*	32-LFCSP	7200.00/1,500		
AD8264ACPZ-ND	VGA Quad, 235MHz* ***NEW!***	40-LFCSP	18.98	17.71	16.45
AD8330-EVALZ-ND	Evaluation Board for AD8330*	—	108.16	—	—
AD8330ACPZ-R7CT-ND	VGA Single*	16-LFCSP	9.22	7.38	6.23
AD8330ACPZ-R7TR-ND	VGA Single*	16-LFCSP	8643.75/1,500		
AD8330ARQZ-ND	VGA Single*	16-QSOP	9.22	7.38	6.23
AD8331ARQZ-ND	VGA Single with Preamp Ultralow Noise*	20-QSOP	9.08	8.18	7.25
AD8331-EVALZ-ND	Evaluation Board for AD8331*	—	88.55	—	—
AD8332-EVALZ-ND	Evaluation Board for AD8332*	—	148.76	—	—
AD8332ACP-R2CT-ND	VGA Dual with Preamp Ultralow Noise	32-LFCSP	21.48	20.05	18.62
AD8332ACPZ-R7CT-ND	VGA Dual with Preamp Ultralow Noise*	32-LFCSP	16.55	15.45	14.34
AD8332ACPZ-R7TR-ND	VGA Dual with Preamp Ultralow Noise*	32-LFCSP	20433.08/1,500		
AD8332ARUZ-ND	VGA Dual with Preamp Ultralow Noise*	28-TSSOP	16.55	15.45	14.34
AD8336ACPZ-R7CT-ND	General Purpose, Wide Band, DC-Coupled VGA*	16-LFCSP	9.30	7.44	6.28
AD8336ACPZ-R7TR-ND	General Purpose, Wide Band, DC-Coupled VGA*	16-LFCSP	8718.75/1,500		
AD8336-EVALZ-ND	Evaluation Board for AD8336*	—	101.14	—	—
AD8337BCPZ-R2CT-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	6.06	4.85	4.10
AD8337BCPZ-R2TR-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	984.75/250		
AD8337BCPZ-WP-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	5.20	4.16	3.51
AD8337-EVALZ-ND	Evaluation Board for AD8337*	—	88.55	—	—
AD8367ARUZ-ND	VGA with AGC Detector*	14-TSSOP	9.20	7.36	6.21
AD8368ACPZ-REEL7CT-ND	VGA 800MHz, Linear-in-dB*	24-LFCSP	9.20	7.36	6.21
AD8368ACPZ-REEL7TR-ND	VGA 800MHz, Linear-in-dB*	24-LFCSP	8625.00/1,500		
AD8369ARUZ-ND	VGA Digital Controller*	16-TSSOP	8.76	7.01	5.92
AD8370AREZ-ND	Digital VGA LF to 750MHz*	16-TSSOP	8.76	7.01	5.92
AD8372ACPZ-R7CT-ND	Programmable Dual VGA*	32-LFCSP	10.96	9.87	8.76
AD8375ACPZ-R7CT-ND	Ultralow Distortion IF VGA*	24-LFCSP	9.08	7.27	6.13
AD8375ACPZ-R7TR-ND	Ultralow Distortion IF VGA*	24-LFCSP	8512.50/1,500		
AD8376ACPZ-R7CT-ND	Ultralow Distortion IF VGA*	32-LFCSP	10.95	9.86	8.74
AD8639ACPZ-REEL7CT-ND	16V Auto-Zero, R/R Out, Op Amp*	8-LFCSP	4.93	3.95	3.07
AD8639ACPZ-REEL7TR-ND	16V Auto-Zero, R/R Out, Op Amp*	8-LFCSP	4188.38/1,500		
AD8639ARMZ-REELCT-ND	16V Auto-Zero, R/R Out, Op Amp*	8-MSOP	5.15	4.13	3.21
AD8639ARMZ-REELTR-ND	16V Auto-Zero, R/R Out, Op Amp*	8-MSOP	8656.20/3,000		
AD8639ARZ-ND	16V Auto-Zero, R/R Out, Op Amp*	8-SOIC	5.15	4.13	3.21
ADL5330ACPZ-REEL7CT-ND	VGA 10MHz to 3GHz*	24-LFCSP	8.40	7.56	6.71
ADL5330ACPZ-REEL7TR-ND	VGA 10MHz to 3GHz*	24-LFCSP	9336.60/1,500		

ANALOG DEVICES ANALOG COMPUTATION CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD630ADZ-ND	Balanced Mod/Demod 2MHz*	20-CDip	20.43	19.07	17.71
AD630ARZ-ND	Balanced Mod/Demod 2MHz*	20-SOIC	17.72	16.54	15.36
AD630JNZ-ND	Balanced Mod/Demod 2MHz*	20-Dip	16.71	15.60	14.49
AD7569JRZ-ND	LC^{2}MOS Complete, 8-Bit Analog I/O System*	24-SOIC	14.06	12.66	11.23

ANALOG DEVICES DigiReel® ANALOG/DIGITAL AUDIO — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD1940YSTZ-ND	SigmaDSP™ Multich. 28-Bit Audio Processor	48-LQFP	14.53	13.08	11.60
EVAL-AD1940MINIBZ-ND	Evaluation Board for SigmaDSP™ ***NEW!***	—	498.75	—	—
SSM2018PZ-ND	Amp Voltage Control Audio	16-Dip	5.82	4.66	3.93
SSM2018TPZ-ND	Amp Voltage Control Audio/Trimless	16-Dip	7.28	5.83	4.92
SSM2019BNZ-ND	Amp Audio Self-Contained Preamp	8-Dip	4.21	3.37	2.62
SSM2019BRWZ-ND	Amp Audio Self-Contained Preamp	16-SOIC	4.21	3.37	2.62
SSM2135SZ-ND	Amp Dual Audio Single Supply	8-SOIC	5.12	4.10	3.46

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* *RoHS Compliant*

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ANALOG DEVICES Digi-Reel® (Co

ANALOG/DIGITAL AUDIO — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SSM2141PZ-ND	Amp Diff. Line Receiver High Common-Mode	8-Dip	3.58	2.87	2.23
SSM2141SZ-ND	Amp Diff. Line Receiver High Common-Mode	8-SOIC	3.58	2.87	2.23
SSM2142PZ-ND	Amp Balance-Line Driver	8-Dip	5.45	4.36	3.39
SSM2142SZ-ND	Amp Balance-Line Driver	16-SOIC	5.45	4.36	3.39
SSM2143PZ-ND	Amp Diff. Line Receiver High Common-Mode	8-Dip	3.42	2.74	2.13
SSM2143SZ-ND	Amp Diff. Line Receiver High Common-Mode	8-SOIC	3.42	2.74	2.13
SSM2160SZ-ND	Balance/Voltage Control Digital	24-SOIC	12.41	11.18	9.91
SSM2164PZ-ND	Amp Quad Voltage Controller	16-Dip	6.00	4.80	4.05
SSM2164SZ-ND	Amp Quad Voltage Controller	16-SOIC	6.00	4.80	4.05
SSM2166SZ-REELCT-ND	Preamp Microphone 5V	14-SOIC	5.94	4.76	4.01
SSM2166SZ-REELTR-ND	Preamp Microphone 5V	14-SOIC	9207.00/2,500		
SSM2166SZ-REEL7CT-ND	Preamp Microphone 5V	14-SOIC	5.94	4.76	4.01
SSM2166SZ-REEL7TR-ND	Preamp Microphone 5V	14-SOIC	3712.50/1,000		
SSM2167-1RMZ-REELCT-ND	Low Voltage Microphone Preamp	10-MSOP	2.34	1.88	1.46
SSM2167-1RMZ-REELTR-ND	Low Voltage Microphone Preamp	10-MSOP	3931.20/3,000		
SSM2167Z-EVAL-ND	Evaluation Board for SSM2167	—	55.66	—	—
SSM2220PZ-ND	Audio Dual Matched PNP Transistor	8-Dip	7.16	5.73	4.84
SSM2304CPZ-REEL7CT-ND	Amp Stereo Audio 2W Filterless Class-D	16-LFCSP	2.03	1.62	1.22
SSM2304CPZ-REEL7TR-ND	Amp Stereo Audio 2W Filterless Class-D	16-LFCSP	1579.50/1,500		
SSM2319CBZ-REEL7CT-ND	Amp Audio Mono 3W Filterless Class-D	9-WLCSP	2.25	1.80	1.35
SSM2319CBZ-REEL7TR-ND	Amp Audio Mono 3W Filterless Class-D	9-WLCSP	3510.00/3,000		

ANALOG DEVICES

ATE AND TIME DOMAIN — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5520JSTZ-ND	Single Parametric Measure	64-LQFP	27.89	26.03	24.17

ANALOG DEVICES Digi-Reel®

AUDIO/VIDEO — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD8194ACPZ-ND	Buffered 2:1 TMDS Switch with Equalization	32-LFCSP	4.16	3.33	2.59
AD8197AASTZ-ND	4:1 HDMI/DVI Switch with Equalization	100-LQFP	10.90	9.81	8.70
AD9880KSTZ-150-ND	Analog/HDMI Dual Display Interface	100-LQFP	15.93	14.34	12.72
AD9393BBCZ-80-ND	Low Power HDMI Display Interface ***NEW!***	76-CSPBGA	9.52	7.62	6.43
ADA4412-3ARQZ-ND	Integrated Triple Video Filter with Selectable Cutoff Frequencies for RGB, HD/SD	20-QSOP	3.69	2.96	2.30
ADA4417-3ARMZ-ND	Integ. Triple Video Filter for High Definition Video	10-MSOP	2.75	2.20	1.71
ADA4420-6ARQZ-ND	6-Channel HD/SD Video Filter	16-QSOP	1.73	1.38	1.04
ADA4424-6ARUZ-ND	6-Channel SE/ED/HD Video Filter ***NEW!***	38-TSSOP	3.69	2.96	2.30
ADA4430-1YKSZ-R7CT-ND	Ultralow Power Video Filter	SC70-6	1.50	1.25	1.00
ADA4430-1YKSZ-R7TR-ND	Ultralow Power Video Filter	SC70-6	1950.00/3,000		
ADA4431-1YCPZ-R7CT-ND	Ultralow Power SD Video Filter	16-LFCSP	1.50	1.25	1.00
ADAU1445YSVZ-3A-ND	SigmaDSP® Digital Audio Processor ***NEW!***	100-TQFP	15.51	13.97	12.39
ADAU1446YSTZ-3A-ND	SigmaDSP® Digital Audio Processor ***NEW!***	100-LQFP	13.79	12.42	11.02
ADAU1590ACPZ-ND	Class-D Audio Power Amp ***NEW!***	48-LFCSP	6.18	4.95	4.18
ADAU1592ACPZ-ND	Class-D Audio Power Amp	48-LFCSP	6.52	5.22	4.41
ADAU1701JSTZ-ND	SigmaDSP® 28/56-Bit Audio Processor with 2 ADC and 4 DACs	48-LQFP	9.04	7.24	6.11
EVAL-ADAU1701MINIZ-ND	Evaluation Board for ADAU1701	—	243.75	—	—
ADAU1702JSTZ-ND	SigmaDSP® 28/56-Bit Audio Processor with 2 ADC and 4 DACs	48-LQFP	7.14	5.72	4.82

ANALOG DEVICES

CCD — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9824KCPZ-ND	CCD Signal Processor 14-Bit	48-LFCSP	23.84	22.25	20.66
AD9840AJSTZ-ND	CCD Signal Processor 10-Bit	48-LQFP	9.76	8.79	7.80
AD9845BJSTZ-ND	CCD Signal Processor 12-Bit	48-LQFP	15.47	14.44	13.41
AD9945KCPZ-ND	CCD Signal Processor	32-LFCSP	8.83	7.95	7.05
AD9949AKCPZ-ND	CCD Signal Processor 12-Bit	40-LFCSP	13.74	12.38	10.98
AD9970BCPZ-ND	CCD Signal Processor 14-Bit ***NEW!***	32-LFCSP	25.46	23.76	22.07

ANALOG DEVICES Digi-Reel®

CLOCK GENERATION AND DISTRIBUTION — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9511BCPZ-ND	1.2GHz Clock Distribution, 5 Outputs	48-LFCSP	15.51	14.48	13.45
AD9513BCPZ-ND	800MHz Clock Distribution, 3 Outputs	32-LFCSP	10.26	9.24	8.20
AD9514BCPZ-ND	1.6GHz Clock Distribution, 3 Outputs	32-LFCSP	10.26	9.24	8.20
AD9515BCPZ-ND	1.6GHz Clock Distribution, 2 Outputs	32-LFCSP	9.86	7.89	6.66
AD9516-1/PCBZ-ND	Evaluation Board for AD9516-1	—	206.63	—	—
AD9516-1BCPZ-ND	14-Output Clock Generator, 2.5GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9516-2/PCBZ-ND	Evaluation Board for AD9516-2	—	206.63	—	—
AD9516-3/PCBZ-ND	Evaluation Board for AD9516-3	—	206.63	—	—
AD9516-3BCPZ-ND	14-Out. Clock Generator, Integrated 2.0GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9516-4/PCBZ-ND	Evaluation Board for AD9516-4	—	206.63	—	—
AD9516-4BCPZ-ND	14-Output Clock Generator, 1.6GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-0BCPZ-ND	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.8GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-1/PCBZ-ND	Evaluation Board for AD9520-1	—	206.63	—	—
AD9520-1BCPZ-ND	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.5GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-2BCPZ-ND	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.2GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-3BCPZ-ND	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-4/PCBZ-ND	Evaluation Board for AD9520-4	—	206.63	—	—
AD9520-4BCPZ-ND	12 LVPECL/24 CMOS Output Clock Generator with Integrated 1.6GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9520-5BCPZ-ND	12 LVPECL/24 CMOS Out Clock Generator	64-LFCSP	17.66	16.48	15.31
AD9522-0BCPZ-ND	12 LVDS/24 CMOS Out Clock Generator with Integrated 2.8GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9522-1BCPZ-ND	12 LVDS/24 CMOS Out Clock Generator with Integrated 2.5GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9522-3BCPZ-ND	12 LVDS/24 CMOS Out Clock Generator with Integrated 2GHz VCO	64-LFCSP	19.43	18.13	16.84
AD9540BCPZ-ND	655MHz Low Jitter Clock Generator	48-LFCSP	15.45	14.42	13.39
AD9549ABCPZ-ND	Dual Input Network Clock Generator/ Synchronizer ***NEW!***	64-LFCSP	19.29	18.01	16.72

ANALOG DEVICES Digi-Reel® *(Cont.)*

CLOCK GENERATION AND DISTRIBUTION — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9571ACPZLVD-ND	10-Output LVDS Clock Generator ***NEW!***	40-LFCSP	11.43	10.29	9.13
AD9571ACPZPEC-ND	10-Output LVPECL Clock Generator ***NEW!***	40-LFCSP	11.43	10.29	9.13
AD9572ACPZPEC-ND	7-Output LVPECL, PLL Core Clock Generator ***NEW!***	40-LFCSP	11.56	10.41	9.24
AD9572ACPZLVD-ND	7-Output LVDS, PLL Core Clock Generator ***NEW!***	40-LFCSP	11.56	10.41	9.24
AD9573ARUZ-ND	2-Output, PCI-e PLL Core Clock Generator ***NEW!***	16-TSSOP	11.25	10.13	8.98
ADCLK905/PCBZ-ND	Evaluation Board for ADCLK905	—	206.63	—	—
ADCLK905BCPZ-R7CT-ND	1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	9.66	8.70	7.72
ADCLK905BCPZ-R7TR-ND	1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	10744.50/1,500		
ADCLK907/PCBZ-ND	Evaluation Board for ADCLK907	—	206.63	—	—
ADCLK907BCPZ-R7CT-ND	Dual 1-Input, 1-Output, Ultrafast SiGe ECL Clock/ Data Buffer	16-LFCSP	11.38	10.25	9.09
ADCLK914BCPZ-R7CT-ND	1-Input, 1-Output, Ultrafast SiGe Open-Collector HVDS Clock/Data Buffer	16-LFCSP	11.58	10.43	9.25
ADCLK914BCPZ-R7TR-ND	1-Input, 1-Output, Ultrafast SiGe Open-Collector HVDS Clock/Data Buffer	16-LFCSP	12874.88/1,500		
ADCLK925/PCBZ-ND	Evaluation Board for ADCLK925	—	206.63	—	—
ADCLK925BCPZ-R7CT-ND	1-Input, 2-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	9.91	8.93	7.92
ADCLK925BCPZ-R7TR-ND	1-Input, 2-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	11022.38/1,500		
ADCLK954BCPZ-ND	2-Input, 12-Output, SiGe Clock Fanout Buffer ***NEW!***	40-LFCSP	11.86	10.68	9.47

ANALOG DEVICES Digi-Reel®

DATA COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ASRC — RoHS Compliant					
AD1895AYRSZ-ND	Converter Sample Rate Async.	28-SSOP	8.14	6.52	5.50
AD1896AYRSZ-ND	Converter Sample Rate Async.	28-SSOP	17.16	16.02	14.88
CODEC — RoHS Compliant					
AD1835AASZ-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	13.20	12.32	11.44
AD1836AASZ-ND	Codec Stereo 4ADC/6DAC	52-MQFP	13.88	12.95	12.03
AD1836AZ-DBRD-ND	Evaluation Board for AD1836A	—	281.25	—	—
AD1928YSTZ-ND	Codec 2ADC/8DAC 24-Bit	48-LQFP	15.44	14.41	13.38
AD1937WBSTZ-ND	Codec 4ADC/8DAC with PLL, 24-Bit	64-LQFP	12.71	11.45	10.15
AD1939YSTZ-ND	Codec 4ADC/8DAC 24-Bit	64-LQFP	12.86	11.58	10.27
AD1987JCPZ-ND	HD Audio SoundMAX® Codec	48-LFCSP	5.98	4.79	4.04
AD74111YRUZ-ND	Codec Mono Audio Low Power	16-TSSOP	5.38	4.31	3.64
ADAU1361BCPZ-ND	Audio Codec, Stereo, Low Power	32-LFCSP	7.94	6.36	5.36
ADAU1761BCPZ-ND	SigmaDSP® Audio Codec, Low Power	32-LFCSP	8.98	8.09	7.17
EVAL-ADAU1761Z-ND	Evaluation Board for ADAU1761	—	243.75	—	—
ADAV801ASTZ-ND	Audio Codec for Recordable DVD	64-LQFP	12.21	11.00	9.75
ADV212BBCZ-115-ND	Codec JPEG 2000 Video	121-CSPBGA	38.84	36.25	33.66
ADV212BBCZ-150-ND	Codec JPEG 2000 Video	144-CSPBGA	46.61	43.50	40.40
ADV212BBCZRL-115CT-ND	Codec JPEG 2000 Video	121-CSPBGA	38.84	36.25	33.66
ADV212BBCZRL-150CT-ND	Codec JPEG 2000 Video	144-CSPBGA	46.61	43.50	40.40
ADV212BBCZRL-150TR-ND	Codec JPEG 2000 Video	144-CSPBGA	38371.45/1,000		
DAS — RoHS Compliant					
AD974ARSZ-ND	DAS 16-Bit, 4-Channel, 200kSPS	28-SSOP	40.92	38.20	35.47
AD974ARZ-ND	DAS 16-Bit, 4-Channel, 200kSPS	28-SOIC	40.92	38.20	35.47
AD974BRZ-ND	DAS 16-Bit, 4-Channel, 200kSPS	28-SOIC	51.03	47.63	44.23
AD974BRSZ-ND	DAS 16-Bit, 4-Channel, 200kSPS	28-SSOP	51.03	47.63	44.23
AD7874ANZ-ND	DAS 12-Bit, 4-Channel LC^{2}MOS	28-Dip	58.56	54.66	50.76
AD7874ARZ-ND	DAS 12-Bit, 4-Channel LC^{2}MOS	28-SOIC	54.14	50.53	46.92
AD7890ARZ-10-ND	DAS 12-Bit, 8-Channel	24-SOIC	15.84	14.79	13.73
AD7891ASZ-1-ND	DAS 12-Bit, 8-Channel High Speed	44-MQFP	23.12	21.58	20.04
Modem Applications					
AD9861BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	19.23	17.95	16.67
AD9861BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	16.64	15.53	14.42
AD9862BSTZ-ND	Front-End Mixed-Signal*	128-LQFP	46.23	43.15	40.07
AD9863BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	33.29	31.07	28.85

ANALOG DEVICES Digi-Reel®

DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Analog-to-Digital					
AD573JNZ-ND	ADC 10-Bit SAR Register*	20-Dip	41.22	38.48	35.73
AD574AJNZ-ND	ADC 12-Bit with Reference*	28-Dip	33.17	30.96	28.75
AD574AKD-ND	ADC 12-Bit with Reference	28-CDip	60.30	56.28	52.26
AD574AKNZ-ND	ADC 12-Bit with Reference*	28-Dip	43.92	41.00	38.07
AD574AKPZ-ND	ADC 12-Bit with Reference*	28-PLCC	38.94	36.35	33.75
AD670JNZ-ND	ADC 8-Bit Signal Condition*	20-Dip	19.41	18.12	16.83
AD677JNZ-ND	ADC 16-Bit, 100kSPS*	16-Dip	46.34	43.25	40.16
AD679JNZ-ND	ADC 14-Bit, 128kSPS*	28-Dip	64.61	60.30	56.00
AD976AANZ-ND	ADC 16-Bit, 200kSPS*	28-Dip	43.70	40.79	37.87
AD976ABNZ-ND	ADC 16-Bit, 200kSPS*	28-Dip	54.62	50.98	47.34
AD976ABRZ-ND	ADC 16-Bit, 200kSPS*	28-SOIC	50.51	47.14	43.78
AD976ANZ-ND	ADC 16-Bit, 100kSPS*	28-Dip	33.29	31.07	28.85
AD976ARZ-ND	ADC 16-Bit, 100kSPS*	28-SOIC	32.31	30.16	28.01
AD976ARSZ-ND	ADC 16-Bit, 200kSPS*	28-SSOP	32.31	30.16	28.01
AD976BNZ-ND	ADC 16-Bit, 100kSPS*	28-Dip	41.61	38.84	36.07
AD977ABRZ-ND	ADC 16-Bit, 200kSPS*	20-SOIC	50.51	47.14	43.78
AD977ANZ-ND	ADC 16-Bit, 100kSPS*	20-Dip	33.29	31.07	28.85
AD977ARZ-ND	ADC 16-Bit, 100kSPS*	20-SOIC	32.31	30.16	28.01
AD977CNZ-ND	ADC 16-Bit, 100kSPS*	20-Dip	26.21	24.46	22.72
AD1674ARZ-ND	ADC 12-Bit, 100kSPS*	28-SOIC	26.07	24.34	22.60
AD1674BRZ-ND	ADC 12-Bit, 100kSPS*	28-SOIC	36.18	33.77	31.36
AD1674JNZ-ND	ADC 12-Bit, 100kSPS*	28-Dip	23.03	21.49	19.96
AD1674JRZ-ND	ADC 12-Bit, 100kSPS*	28-SOIC	22.34	20.85	19.36
AD1674KNZ-ND	ADC 12-Bit, 100kSPS*	28-Dip	32.21	30.06	27.92
AD1674KRZ-ND	ADC 12-Bit, 100kSPS*	28-SOIC	31.28	29.19	27.11
AD1871YRSZ-ND	ADC Stereo Audio 24-Bit*	28-SSOP	8.58	7.73	6.85
AD1877JRZ-ND	ADC Stereo 16-Bit*	28-SOIC	12.33	11.10	9.85
AD1974YSTZ-ND	Four ADC with PLL, 192kHz, 24-Bit Codec*	48-LQFP	8.02	6.42	5.42
AD5590BBCZ-ND	ADC 16-In., 16-Output Analog I/O Port*	80-CSPBGA	29.25	27.30	25.35
AD6644ASTZ-40-ND	ADC 14-Bit, 40MSPS*	52-LQFP	49.68	46.37	43.06
AD6644ASTZ-65-ND	ADC 14-Bit, 65MSPS*	52-LQFP	66.69	62.25	57.80
AD6645ASVZ-80-ND	ADC 14-Bit, 80MSPS*	52-TQFP	67.91	63.38	58.86
AD7170BCPZ-REEL7CT-ND	ADC 12-Bit Sigma-Delta, Low Power* ***NEW!***	10-LFCSP	2.38	1.90	1.43
AD7170BCPZ-REEL7TR-ND	ADC 12-Bit Sigma-Delta, Low Power* ***NEW!***	10-LFCSP	1923.75/1,500		
AD7171BCPZ-500RL7CT-ND	ADC 16-Bit Sigma-Delta, Low Power* ***NEW!***	10-LFCSP	2.59	2.07	1.61
AD7171BCPZ-500RL7TR-ND	ADC 16-Bit Sigma-Delta, Low Power* ***NEW!***	10-LFCSP	747.50/500		
AD7190BRUZ-ND	ADC 24-Bit Sigma-Delta, 4.8kHz Ultralow Noise*	24-TSSOP	10.08	9.08	8.05
AD7191BRUZ-ND	ADC 24-Bit Sigma-Delta, Ultralow Noise* ***NEW!***	24-TSSOP	7.84	6.28	5.30
AD7192BRUZ-ND	ADC 24-Bit Sigma-Delta, Ultralow Noise* ***NEW!***	24-TSSOP	8.48	7.64	6.77
AD7193BRUZ-ND	ADC 24-Bit Sigma-Delta, Ultralow Noise* ***NEW!***	28-TSSOP	9.13	8.22	7.29

** RoHS Compliant*

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(Continued)

ANALOG DEVICES Digi Reel® *(Cont.)* DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD7194BCPZ-ND	ADC 24-Bit Sigma-Delta, Ultralow Noise* ***NEW!***	32-LFCSP	11.88	10.70	9.49
AD7262BSTZ-RL7CT-ND	ADC 12-Bit, 2-Channel SAR 1MSPS*	48-LQFP	9.38	8.45	7.49
AD7262BSTZ-5-RL7CT-ND	ADC 12-Bit, 2-Channel SAR 1MSPS*	48-LQFP	8.38	6.71	5.66
AD7264BCPZ-ND	ADC 14-Bit, 2-Channel SAR 1MSPS*	48-LFCSP	11.21	10.10	8.96
AD7264BSTZ-ND	ADC 14-Bit, 2-Channel SAR 1MSPS*	48-LQFP	11.10	9.99	8.86
AD7264BSTZ-5-ND	ADC 14-Bit, 2-Channel SAR 500kSPS*	48-LQFP	8.70	7.83	6.95
AD7266BCPZ-ND	ADC 12-Bit, 3-Channel SAR Dual 2MSPS*	32-LFCSP	8.35	7.52	6.67
AD7266BSUZ-ND	ADC 12-Bit, 3-Channel SAR Dual 2MSPS*	32-TQFP	8.35	7.52	6.67
AD7276ARMZ-ND	ADC 12-Bit, SAR 3MSPS* ***NEW!***	8-MSOP	4.28	3.42	2.66
AD7276AUJZ-500RL7CT-ND	ADC 12-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	4.28	3.42	2.66
AD7276AUJZ-500RL7TR-ND	ADC 12-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	1235.00/500		
AD7277ARMZ-ND	ADC 10-Bit, SAR 3MSPS* ***NEW!***	8-MSOP	4.03	3.23	2.51
AD7277AUJZ-500RL7CT-ND	ADC 10-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	4.03	3.23	2.51
AD7277AUJZ-500RL7TR-ND	ADC 10-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	1163.50/500		
AD7278ARMZ-ND	ADC 8-Bit, SAR 3MSPS* ***NEW!***	8-MSOP	3.80	3.05	2.37
AD7278AUJZ-500RL7CT-ND	ADC 8-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	3.80	3.05	2.37
AD7278AUJZ-500RL7TR-ND	ADC 8-Bit, SAR 3MSPS* ***NEW!***	6-TSOT	1098.50/500		
AD7294BSUZ-ND	ADC 12-Bit, Multichannel with DAC/Temp*	64-TQFP	15.09	14.09	13.08
AD7321BRUZ-ND	ADC 500kSPS, 2-Channel, Software Selectable, True Bipolar In, 12-Bit+*	14-TSSOP	6.22	4.98	4.20
AD7322BRUZ-ND	ADC 2-Channel, Software Selectable, True Bipolar In, 1MSPS, 12-Bit+*	14-TSSOP	9.84	7.88	6.65
AD7323BRUZ-ND	ADC 500kSPS, 4-Channel, Software Selectable, True Bipolar In, 12-Bit+*	16-TSSOP	7.50	6.00	5.07
AD7324BRUZ-ND	ADC 4-Channel, Software Selectable, True Bipolar In, 12-Bit+*	16-TSSOP	9.91	8.93	7.92
AD7327BRUZ-ND	ADC 500kSPS, 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	20-TSSOP	8.18	6.55	5.53
AD7328BRUZ-ND	ADC 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	20-TSSOP	10.78	9.71	8.61
AD7329BRUZ-ND	ADC 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	24-TSSOP	10.78	9.71	8.61
AD7352BRUZ-ND	ADC 3MSPS, 12-Bit, SAR, Differential In, Dual Simultaneous Sampling*	16-TSSOP	9.38	8.45	7.49
AD7352YRUZ-ND	ADC 3MSPS, 12-Bit, SAR, Differential In, Dual Simultaneous Sampling*	16-TSSOP	10.80	9.72	8.62
AD7356BRUZ-ND	ADC 5MSPS, 12-Bit, SAR, Differential In, Dual Simultaneous Sampling*	16-TSSOP	13.44	12.11	10.74
AD7357BRUZ-ND	ADC 4.2MSPS, 14-Bit, SAR, Differential In, Dual Simultaneous Sampling* ***NEW!***	16-TSSOP	16.61	15.50	14.40
AD7357YRUZ-ND	ADC 4.2MSPS, 14-Bit, SAR, Differential In, Dual Simultaneous Sampling* ***NEW!***	16-TSSOP	19.08	17.81	16.54
AD7366BRUZ-ND	ADC 12-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	10.21	9.20	8.16
AD7367BRUZ-ND	ADC 14-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	11.90	10.71	9.50
AD7367BRUZ-5-ND	ADC 14-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	10.36	9.33	8.28
AD7440BRM-ND	ADC 10-Bit Differential-In 1MSPS	8-MSOP	4.21	3.80	3.37
AD7440BRT-R2CT-ND	ADC 10-Bit Differential-Input 1MSPS	SOT-23-8	6.46	5.17	4.37
AD7452BRTZ-R2CT-ND	ADC 12-Bit, 555kSPS, Differential-In*	SOT-23-8	7.02	5.62	4.74
AD7452BRTZ-R2TR-ND	ADC 12-Bit, 555kSPS, Differential-In*	SOT-23-8	1140.75/250		
AD7453BRTZ-R2CT-ND	ADC 12-Bit, 555kSPS*	SOT-23-8	7.02	5.62	4.74
AD7453BRTZ-R2TR-ND	ADC 12-Bit, 555kSPS*	SOT-23-8	1140.75/250		
AD7457BRTZ-REEL7CT-ND	ADC 12-Bit, 100kSPS*	SOT-23-8	4.66	3.73	2.90
AD7457BRTZ-REEL7TR-ND	ADC 12-Bit, 100kSPS*	SOT-23-8	7824.60/3,000		
AD7466BRMZ-ND	ADC 12-Bit Micropower 1.6V*	8-MSOP	5.47	4.38	3.41
AD7466BRTZREEL7CT-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	5.36	4.29	3.34
AD7466BRTZREEL7TR-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	8996.40/3,000		
AD7468BRTZREEL7CT-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	2.61	2.09	1.63
AD7468BRTZREEL7TR-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	4384.80/3,000		
AD7470ARUZ-ND	ADC 10-Bit, 1.75MSPS*	24-TSSOP	6.22	4.98	4.20
AD7475ARMZ-REEL7CT-ND	ADC 12-Bit, 1MSPS*	8-MSOP	8.80	7.04	5.94
AD7476ABKSZREELCT-ND	ADC 12-Bit, 2.35V, 1MSPS*	SC70-6	8.43	7.59	6.73
AD7476ABKSZREELTR-ND	ADC 12-Bit, 2.35V, 1MSPS*	SC70-6	18443.70/3,000		
AD7476ABRMZ-ND	ADC 12-Bit, 2.35V, 1MSPS*	8-MSOP	9.30	7.44	6.28
AD7476ARTZ-500RL7CT-ND	ADC 12-Bit, 2.35V, 1MSPS*	SOT-23-6	8.10	6.48	5.47
AD7476ARTZ-500RL7TR-ND	ADC 12-Bit, 2.35V, 1MSPS*	SOT-23-6	2571.75/500		
AD7476AYRMZ-ND	ADC 12-Bit, 2.35V, 1MSPS*	8-MSOP	10.35	9.32	8.26
AD7477AARMZ-ND	ADC 10-Bit, 2.35V, 1MSPS*	8-MSOP	5.18	4.15	3.50
AD7477ARTZ500RLCT-ND	ADC 10-Bit, 2.35V, 1MSPS*	SOT-23-6	5.04	4.04	3.41
AD7477ARTZ500RLTR-ND	ADC 10-Bit, 2.35V, 1MSPS*	SOT-23-6	1600.20/500		
AD7478AARM-ND	ADC 8-Bit, 2.35V, 1MSPS	8-MSOP	2.54	2.04	1.59
AD7478AARMZ-ND	ADC 8-Bit, 2.35V, 1MSPS*	8-MSOP	2.45	1.96	1.47
AD7478ARTZREEL7CT-ND	ADC 8-Bit, 2.35V, 1MSPS*	SOT-23-6	2.40	1.92	1.44
AD7478ARTZREEL7TR-ND	ADC 8-Bit, 2.35V, 1MSPS*	SOT-23-6	3686.40/3,000		
AD7478WARTZ-RL7CT-ND	ADC 8-Bit, 2.35V ~ 5.25V, 1MSPS*	SOT-23-6	2.81	2.25	1.75
AD7478WARTZ-RL7TR-ND	ADC 8-Bit, 2.35V ~ 5.25V, 1MSPS*	SOT-23-6	4725.00/3,000		
AD7482BSTZ-ND	ADC 12-Bit SAR 3MSPS*	48-LQFP	14.39	12.96	11.50
AD7484BSTZ-ND	ADC 14-Bit SAR 3MSPS*	48-LQFP	18.65	17.41	16.16
AD7490BCPZ-ND	ADC 12-Bit, 16-Channel, 1MSPS*	32-LFCSP	10.26	9.24	8.20
AD7490BRUZ-ND	ADC 12-Bit, 16-Channel, 1MSPS*	28-TSSOP	10.26	9.24	8.20
AD7574JNZ-ND	ADC 8-Bit CMOS 5V*	18-Dip	14.39	12.96	11.50
AD7582KNZ-ND	ADC 12-Bit CMOS*	28-Dip	42.05	39.25	36.44
AD7610BSTZ-ND	ADC 16-Bit, 250kSPS PulSAR®*	48-LQFP	19.58	18.27	16.97
AD7612BSTZ-ND	ADC 16-Bit, 750kSPS PulSAR®*	48-LQFP	44.18	41.23	38.29
AD7621ASTZ-ND	ADC 16-Bit, 3MSPS PulSAR®*	48-LQFP	45.47	42.44	39.41
AD7625BCPZ-ND	ADC 16-Bit, 6MSPS PulSAR®*	32-LFCSP	44.93	41.93	38.94
EVAL-AD7625EDZ-ND	Evaluation Board for AD7625* ***NEW!***	—	150.00	—	—
AD7631BSTZ-ND	ADC 18-Bit, 250kSPS, Diff. Prog. Input PulSAR®*	48-LQFP	44.70	41.72	38.74
AD7641BSTZ-ND	ADC 18-Bit, SAR 2MSPS*	48-LQFP	50.03	46.69	43.36
AD7651ASTZ-ND	ADC 16-Bit, 100kSPS PulSAR®*	48-LQFP	12.56	11.31	10.03
AD7653ASTZ-ND	ADC 16-Bit, 1MSPS with Reference*	48-LQFP	17.46	16.30	15.14
AD7654ASTZ-ND	ADC 16-Bit, 500kSPS Dual 2-Ch. PulSAR®*	48-LQFP	23.42	21.86	20.30
AD7655ACPZ-ND	ADC 16-Bit, 1MSPS Quad*	48-LFCSP	15.93	14.34	12.72
AD7655ASTZ-ND	ADC 16-Bit, 1MSPS Quad*	48-LQFP	15.93	14.34	12.72
AD7656BSTZ-ND	ADC 16-Bit, 250kSPS, 6-Channel*	64-LQFP	20.33	18.97	17.62
AD7656BSTZ-1-ND	ADC 16-Bit, 250kSPS, 6-Channel*	64-LQFP	20.33	18.97	17.62

ANALOG DEVICES Digi Reel® *(Cont.)* DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EVAL-AD7656CBZ-ND	Evaluation Board for AD7656*	—	151.80	—	—
AD7657BSTZ-ND	ADC 14-Bit, 250kSPS, 6-Channel*	64-LQFP	16.52	15.42	14.32
AD7657BSTZ-1-ND	ADC 14-Bit, 250kSPS, 6-Channel*	64-LQFP	16.52	15.42	14.32
AD7658BSTZ-ND	ADC 12-Bit, 250kSPS, 6-Channel*	64-LQFP	14.91	13.43	11.91
AD7658BSTZ-1-ND	ADC 12-Bit, 250kSPS, 6-Channel*	64-LQFP	14.91	13.43	11.91
AD7658YSTZ-ND	ADC 12-Bit, 250kSPS, 6-Channel*	64-LQFP	16.63	14.97	13.28
EVAL-AD7658CBZ-ND	Evaluation Board for AD7658*	—	151.80	—	—
AD7660ASTZ-ND	ADC 16-Bit Unipolar*	48-LQFP	14.33	12.90	11.44
AD7663ASTZ-ND	ADC 16-Bit, 250kSPS*	48-LQFP	18.21	17.00	15.79
AD7664ASTZ-ND	ADC 16-Bit Unipolar*	48-LQFP	28.31	26.42	24.54
AD7665ASTZRLCT-ND	ADC 16-Bit CMOS 5V*	48-LQFP	28.85	26.93	25.00
AD7665ASTZRLTR-ND	ADC 16-Bit CMOS 5V*	48-LQFP	47498.10/2,000		
AD7667ASTZ-ND	ADC 16-Bit, 1MSPS Unipolar*	48-LQFP	35.67	33.30	30.92
AD7671ASTZ-ND	ADC 16-Bit CMOS 1MSPS*	48-LQFP	42.44	39.61	36.78
AD7674ASTZ-ND	ADC 18-Bit, 800kSPS*	48-LQFP	42.44	39.61	36.78
EVAL-AD7674CB-ND	Evaluation Board for AD7674	—	146.25	—	—
AD7676ASTZ-ND	ADC 16-Bit, 500kSPS Differential*	48-LQFP	37.88	35.35	32.83
AD7677ACPZ-ND	ADC 16-Bit, 1MSPS Differential*	48-LFCSP	55.34	51.65	47.96
AD7677ASTZ-ND	ADC 16-Bit, 1MSPS Differential*	48-LQFP	50.03	46.69	43.36
AD7678ASTZ-ND	ADC 18-Bit, 100kSPS*	48-LQFP	29.15	27.21	25.26
AD7679ASTZ-ND	ADC 18-Bit, 570kSPS*	48-LQFP	38.87	36.28	33.69
AD7680BRJZ-REEL7CT-ND	ADC 16-Bit, 100kSPS* ***NEW!***	SOT-23-6	10.11	9.11	8.08
AD7680BRJZ-REEL7TR-ND	ADC 16-Bit, 100kSPS* ***NEW!***	SOT-23-6	22125.15/3,000		
AD7680BRMZ-ND	ADC 16-Bit, 100kSPS*	8-MSOP	10.11	9.11	8.08
AD7682BCPZ-ND	ADC 16-Bit, 250kSPS, 4-Channel*	20-LFCSP	10.01	9.02	8.00
AD7683BRMZ-ND	ADC 16-Bit, 100kSPS*	8-MSOP	10.96	9.87	8.76
AD7684BRMZ-ND	ADC 16-Bit, 100kSPS*	8-MSOP	10.96	9.87	8.76
AD7685ARMZ-ND	ADC 16-Bit, 250kSPS PulSAR®*	10-MSOP	10.96	9.87	8.76
AD7685BCPZRL7CT-ND	ADC 16-Bit, 250kSPS PulSAR®*	10-LFCSP	13.49	12.15	10.78
AD7685BCPZRL7TR-ND	ADC 16-Bit, 250kSPS PulSAR®*	10-LFCSP	15005.25/1,500		
AD7685BRMZ-ND	ADC 16-Bit, 250kSPS PulSAR®*	10-MSOP	13.49	12.15	10.78
AD7685CRMZ-ND	ADC 16-Bit, 250kSPS PulSAR®*	10-MSOP	16.19	14.58	12.93
AD7686BRMZ-ND	ADC 16-Bit, 500kSPS PulSAR®*	10-MSOP	18.21	17.00	15.79
AD7686CCPZRL7CT-ND	ADC 16-Bit, 500kSPS PulSAR® Differential*	10-LFCSP	21.18	19.77	18.36
AD7686CCPZRL7TR-ND	ADC 16-Bit, 500kSPS PulSAR® Differential*	10-LFCSP	26157.30/1,500		
AD7687BCPZRL7CT-ND	ADC 16-Bit, 250kSPS PulSAR® Differential*	10-MSOP	15.09	13.59	12.05
AD7687BRMZ-ND	ADC 16-Bit, 250kSPS PulSAR® Differential*	10-MSOP	15.09	13.59	12.05
AD7688BRMZ-ND	ADC 16-Bit, 500kSPS PulSAR® Differential*	10-MSOP	22.70	21.19	19.67
AD7689ACPZ-ND	ADC 16-Bit, 250kSPS PulSAR® 8-Ch.* ***NEW!***	20-LFCSP	9.98	8.99	7.97
AD7689BCPZ-ND	ADC 16-Bit, 250kSPS PulSAR® 8-Channel*	20-LFCSP	11.78	10.61	9.41
AD7690BRMZ-ND	ADC 18-Bit, 400kSPS PulSAR® Differential*	10-MSOP	29.60	27.63	25.65
AD7691BRMZ-ND	ADC 18-Bit, 250kSPS PulSAR® Differential*	10-MSOP	22.01	20.54	19.08
AD7693BRMZ-ND	ADC 16-Bit, 500kSPS PulSAR®*	10-MSOP	27.33	25.51	23.69
AD7699BCPZ-ND	ADC 16-Bit, 8-Ch., 500kSPS PulSAR®*	20-LFCSP	13.31	11.99	10.63
AD7701ANZ-ND	ADC 16-Bit LC^{2}MOS*	20-Dip	24.05	22.45	20.84
AD7705BNZ-ND	ADC 16-Bit, 2-Channel*	16-Dip	8.80	7.04	5.94
AD7705BRZ-ND	ADC 16-Bit, 2-Channel*	16-SOIC	8.54	6.84	5.77
AD7705BRUZ-ND	ADC 16-Bit, 2-Channel*	16-TSSOP	8.54	6.84	5.77
AD7706BNZ-ND	ADC 16-Bit, 3-Channel*	16-Dip	9.06	7.25	6.12
AD7706BRZ-ND	ADC 16-Bit, 3-Channel*	16-SOIC	8.80	7.04	5.94
AD7708BRUZ-ND	ADC 16-Bit Rail-to-Rail 8/10-Channel*	28-TSSOP	8.24	6.60	5.57
AD7708BRZ-ND	ADC 16-Bit Rail-to-Rail 8/10-Channel*	28-SOIC	8.24	6.60	5.57
AD7709BRUZ-ND	ADC 16-Bit Sigma-Delta*	24-TSSOP	9.24	7.40	6.24
AD7710ARZ-ND	ADC Signal Conditioning*	24-SOIC	29.39	27.43	25.47
AD7711ANZ-ND	ADC 24-Bit RTD Current Source*	24-Dip	31.10	29.03	26.95
AD7711ARZ-ND	ADC 24-Bit RTD Current Source*	24-SOIC	31.10	29.03	26.95
AD7712ARZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-SOIC	26.79	25.01	23.22
AD7713ARZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-SOIC	32.85	30.66	28.47
AD7714ANZ-5-ND	ADC Signal Conditioning 5V*	24-Dip	15.02	14.02	13.02
AD7714ARZ-5-ND	ADC Signal Conditioning 5V*	24-SOIC	16.19	14.58	12.93
AD7714YNZ-ND	ADC Signal Conditioning*	24-Dip	14.71	13.25	11.75
AD7714YRUZ-ND	ADC Signal Conditioning 3V/5V*	24-TSSOP	14.29	12.87	11.42
AD7715ANZ-5-ND	ADC 16-Bit, 5V*	16-Dip	10.35	9.32	8.26
AD7715ARZ-5-ND	ADC 16-Bit, 5V*	16-SOIC	10.05	9.05	8.02
AD7716BPZ-ND	ADC 22-Bit LC^{2}MOS*	44-PLCC	58.68	54.77	50.86
AD7718BRUZ-ND	ADC 8/10-Channel, 24-Bit*	28-TSSOP	9.03	8.13	7.21
AD7718BRZ-ND	ADC 8/10-Channel, 24-Bit*	28-SOIC	9.03	8.13	7.21
AD7719BRUZ-ND	ADC 16/24-Bit Dual*	28-TSSOP	15.11	13.61	12.07
AD7730BNZ-ND	ADC Bridge Transducer*	24-Dip	15.78	14.73	13.68
AD7730BRUZ-ND	ADC Bridge Transducer*	24-TSSOP	15.32	14.30	13.28
AD7730BRZ-ND	ADC Bridge Transducer*	24-SOIC	15.32	14.30	13.28
AD7730LBRUZ-ND	ADC Bridge Transducer*	24-TSSOP	14.43	12.99	11.52
AD7730LBRZ-ND	ADC Bridge Transducer*	24-SOIC	14.43	12.99	11.52
AD7731BRZ-ND	ADC 24-Bit*	24-SOIC	15.78	14.73	13.68
AD7731BRUZ-ND	ADC 24-Bit*	24-TSSOP	15.78	14.73	13.68
AD7732BRUZ-ND	ADC 24-Bit, 2-Channel*	28-TSSOP	14.66	13.20	11.71
AD7734BRUZ-ND	ADC 24-Bit, 4-Channel*	28-TSSOP	14.66	13.20	11.71
EVAL-AD7734EBZ-ND	Evaluation Board for AD7734*	—	171.03	—	—
AD7738BRUZ-ND	ADC 24-Bit, 8-Channel*	28-TSSOP	13.41	12.08	10.71
AD7739BRUZ-ND	ADC 24-Bit, 8-Channel*	24-TSSOP	13.21	11.90	10.55
AD7760BSVZ-ND	ADC 24-Bit, 2.5MSPS*	64-TQFP	56.31	52.56	48.81
AD7764BRUZ-ND	ADC 24-Bit, Sigma-Delta*	28-TSSOP	21.18	19.77	18.36
AD7765BRUZ-ND	ADC 24-Bit, Sigma-Delta*	28-TSSOP	15.09	13.59	12.05
AD7766BRUZ-ND	ADC 24-Bit, 128kSPS*	16-TSSOP	10.03	9.03	8.01
AD7766BRUZ-1-ND	ADC 24-Bit, 64kSPS*	16-TSSOP	10.03	9.03	8.01
AD7766BRUZ-2-ND	ADC 24-Bit, 32kSPS*	16-TSSOP	10.03	9.03	8.01
AD7767BRUZ-ND	ADC 24-Bit, 128kSPS*	16-TSSOP	14.33	12.90	11.44
AD7767BRUZ-1-ND	ADC 24-Bit, 64kSPS*	16-TSSOP	14.33	12.90	11.44
AD7767BRUZ-2-ND	ADC 24-Bit, 32kSPS*	16-TSSOP	14.33	12.90	11.44
AD7780BRUZ-ND	ADC 24-Bit, Sigma-Delta* ***NEW!***	16-TSSOP	5.56	4.45	3.76
AD7780BRZ-ND	ADC 24-Bit, Sigma-Delta* ***NEW!***	14-SOIC	5.56	4.45	3.76
AD7781BRUZ-ND	ADC 20-Bit, Sigma-Delta* ***NEW!***	16-TSSOP	4.50	3.60	2.80
AD7781BRZ-ND	ADC 20-Bit, Sigma-Delta* ***NEW!***	14-SOIC	4.50	3.60	2.80
AD7781CRUZ-ND	ADC 20-Bit, Sigma-Delta* ***NEW!***	16-TSSOP	5.09	4.07	3.17
AD7781CRZ-ND	ADC 20-Bit, Sigma-Delta* ***NEW!***	14-SOIC	5.09	4.07	3.17
AD7783BRUZ-ND	ADC 24-Bit, Sigma-Delta*	16-TSSOP	8.80	7.04	5.94
AD7785BRUZ-ND	ADC 20-Bit, Sigma-Delta*	16-TSSOP	8.72	6.98	5.89
AD7788ARMZ-ND	ADC 16-Bit Low Power*	10-MSOP	4.64	3.71	2.89
AD7788BRMZ-ND	ADC 16-Bit Low Power*	10-MSOP	5.28	4.23	3.57
AD7789BRMZ-ND	ADC 24-Bit Low Power*	10-MSOP	6.10	4.88	4.12
AD7790BRMZ-ND	ADC 16-Bit Buffered Low Power*	10-MSOP	6.10	4.88	4.12
AD7791BRMZ-ND	ADC 24-Bit Buffered Low Power*	10-MSOP	7.92	6.34	5.35

* *RoHS Compliant*

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(Continued)

ANALOG DEVICES DigiReel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7792BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	8.26	6.61	5.58
AD7793BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	8.80	7.92	7.03
AD7794BRUZ-ND	ADC 24-Bit, 6-Channel*	24-TSSOP	10.00	9.00	7.98
AD7794CRUZ-ND	ADC 24-Bit, 6-Channel*	24-TSSOP	10.81	9.74	8.64
AD7795BRUZ-ND	ADC 16-Bit, 6-Channel*	24-TSSOP	9.16	7.33	6.19
AD7796BRUZ-ND	ADC 16-Bit Sigma Delta*	16-TSSOP	5.72	4.58	3.87
AD7797BRUZ-ND	ADC 24-Bit Sigma Delta*	16-TSSOP	6.96	5.57	4.70
AD7798BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	7.86	6.29	5.31
AD7799BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	9.02	7.22	6.09
AD7811YRZ-ND	ADC 10-Bit, 4-Channel, 2.7V*	16-SOIC	6.52	5.22	4.41
AD7812YRZ-ND	ADC 10-Bit, 8-Channel, 2.7V*	20-SOIC	7.42	5.94	5.01
AD7812YRUZ-ND	ADC 10-Bit, 8-Channel, 2.7V*	20-TSSOP	7.42	5.94	5.01
AD7813YRZ-ND	ADC 10-Bit Parallel*	16-SOIC	6.32	5.06	4.27
AD7817ARZ-ND	ADC 10-Bit, 4-Channel Temperature Sensor*	16-SOIC	7.30	5.84	4.93
AD7819YNZ-ND	ADC 8-Bit Sampling Parallel*	16-Dip	5.00	4.00	3.38
AD7819YRZ-ND	ADC 8-Bit Sampling Parallel*	16-SOIC	5.45	4.36	3.39
AD7820KNZ-ND	ADC 8-Bit LC^{2}MOS Track/Hold High Speed*	20-Dip	13.48	12.14	10.76
AD7822BRZ-ND	ADC 8-Bit 1-Channel, 2MSPS*	20-SOIC	7.30	5.84	4.93
AD7822BRZ-REEL7CT-ND	ADC 8-Bit 1-Channel, 2MSPS*	20-SOIC	7.30	5.84	4.93
AD7823YRZ-ND	ADC 8-Bit Serial 2.7/5.5V*	8-SOIC	5.45	4.36	3.39
AD7829BRZ-ND	ADC 8-Bit, 8-Channel, 2MSPS*	28-SOIC	8.34	6.68	5.63
AD7829BRUZ-ND	ADC 8-Bit, 8-Channel, 2MSPS*	28-TSSOP	8.34	6.68	5.63
AD7843ARUZ-ND	ADC 12-Bit Touch Screen Digitizer*	16-TSSOP	2.52	2.02	1.57
AD7854ARSZ-ND	ADC 12-Bit Parallel Low Power*	28-SSOP	16.13	14.52	12.88
AD7854LARZ-ND	ADC 12-Bit Parallel Low Power*	28-SOIC	10.26	9.24	8.20
AD7858ARZ-ND	ADC 12-Bit, 8-Channel Serial*	24-SOIC	15.00	14.00	13.00
AD7859ASZ-ND	ADC 12-Bit, 8-Channel, 200kSPS*	44-PQFP	12.10	10.89	9.66
AD7859LASZ-ND	ADC 12-Bit, 8-Channel, 200kSPS*	44-PQFP	11.58	10.43	9.25
AD7862ARZ-10-ND	ADC 12-Bit Dual 250kSPS*	28-SOIC	17.12	15.98	14.84
AD7863ARZ-3-ND	ADC 14-Bit Dual 175kSPS*	28-SOIC	22.44	20.95	19.45
AD7864ASZ-1-ND	ADC 12-Bit Dual 4-Channel*	44-MQFP	21.14	19.73	18.32
AD7865ASZ-1-ND	ADC 14-Bit Dual 4-Channel*	44-PQFP	22.32	20.84	19.35
AD7866ARUZ-ND	ADC 12-Bit, 2-Channel Dual*	20-TSSOP	10.20	9.18	8.14
AD7866BRUZ-ND	ADC 12-Bit, 2-Channel Dual*	20-TSSOP	11.91	10.73	9.51
EVAL-AD7866CB-ND	Evaluation Board for AD7866	—	140.63	—	—
AD7870JNZ-ND	ADC 12-Bit LC^{2}MOS 100kHz*	24-Dip	35.58	33.21	30.84
AD7872JRZ-ND	ADC 14-Bit LC^{2}MOS*	16-SOIC	49.23	45.95	42.67
AD7875KNZ-ND	ADC 12-Bit LC^{2}MOS 100kHz*	24-Dip	47.85	44.66	41.47
AD7877ACBZ-REEL7CT-ND	ADC 12-Bit Touch Screen*	25-WLCSP	4.84	3.87	3.01
AD7879-1ACPZ-500R7CT-ND	ADC 12-Bit Touch Screen Controller* ***NEW!***	16-LFCSP	3.80	3.05	2.37
AD7879-1ACPZ-500R7TR-ND	ADC 12-Bit Touch Screen Controller* ***NEW!***	16-LFCSP	1098.50/500		
AD7885AAPZ-ND	ADC 16-Bit Sampling High Speed*	44-PLCC	77.27	72.12	66.97
AD7887WARMZ-ND	ADC 12-Bit, 2-Channel, 125kSPS*	8-MSOP	7.94	6.36	5.36
AD7888ARZ-ND	ADC 12-Bit, 8-Channel, 125kSPS*	16-SOIC	8.10	6.48	5.47
AD7888ARUZ-ND	ADC 12-Bit, 8-Channel, 125kSPS*	16-TSSOP	8.10	6.48	5.47
AD7891BSZ-2-ND	ADC 12-Bit, 8-Channel LC^{2}MOS* ***NEW!***	44-MQFP	27.74	25.89	24.04
AD7892ARZ-1-ND	ADC 12-Bit, 500kSPS, LC^{2}MOS*	24-SOIC	21.80	20.35	18.89
AD7892BNZ-1-ND	ADC 12-Bit, 500kSPS, LC^{2}MOS*	24-Dip	28.26	26.38	24.50
AD7893ANZ-2-ND	ADC 12-Bit LC^{2}MOS*	8-Dip	17.28	16.13	14.98
AD7893ARZ-2-ND	ADC 12-Bit LC^{2}MOS*	8-SOIC	15.99	14.93	13.86
AD7893ARZ-10-ND	ADC 12-Bit LC^{2}MOS*	8-SOIC	15.99	14.93	13.86
AD7894ARZ-3-ND	ADC 14-Bit Serial Track/Hold Low Power*	8-SOIC	13.71	12.35	10.95
AD7894BRZ-10-ND	ADC 14-Bit Serial Track/Hold Low Power*	8-SOIC	16.32	15.24	14.15
AD7895ARZ-10-ND	ADC 12-Bit Serial 5V*	8-SOIC	8.58	7.73	6.85
AD7896BRZ-ND	ADC 12-Bit Serial Track/Hold High Speed*	8-SOIC	15.05	14.05	13.04
AD7899ARSZ-1-ND	ADC 14-Bit, 400kSPS, 5V*	28-SSOP	15.39	14.37	13.34
AD7899ARSZ-2-ND	ADC 14-Bit, 400kSPS, 5V*	28-SSOP	15.39	14.37	13.34
AD7904BRUZ-ND	ADC 8-Bit, 4-Channel, 1MSPS*	16-TSSOP	3.60	2.88	2.24
AD7908BRUZ-ND	ADC 8-Bit, 8-Channel, 1MSPS*	20-TSSOP	4.32	3.46	2.69
AD7911ARMZ-ND	ADC 10-Bit, 2-Channel, 250kSPS*	8-MSOP	4.66	3.73	2.90
EVAL-AD7912CB-ND	Evaluation Board for AD7912	—	140.63	—	—
AD7914BRUZ-ND	ADC 10-Bit, 4-Channel, 1MSPS*	16-TSSOP	6.22	4.98	4.20
AD7918BRUZ-ND	ADC 10-Bit, 8-Channel, 1MSPS*	20-TSSOP	6.74	5.40	4.55
AD7920BRMZ-ND	ADC 12-Bit, 250kSPS*	8-MSOP	5.30	4.24	3.58
AD7921ARM-REEL7TR-ND	ADC 12-Bit, 250kSPS, 2-Channel	8-MSOP	3495.00/1,000		
AD7921ARMZ-ND	ADC 12-Bit, 250kSPS, 2-Channel*	8-MSOP	5.36	4.29	3.34
AD7922ARMZ-ND	ADC 12-Bit, 1MSPS, 2-Channel*	8-MSOP	8.80	7.04	5.94
AD7923BRUZ-ND	ADC 12-Bit, 4-Channel, 200kSPS*	16-TSSOP	5.28	4.23	3.57
AD7924BRUZ-ND	ADC 12-Bit, 4-Channel, 1MSPS*	16-TSSOP	9.30	7.44	6.28
AD7927BRUZ-ND	ADC 12-Bit, 8-Channel, 200kSPS*	20-TSSOP	5.80	4.64	3.92
AD7928BRUZ-ND	ADC 12-Bit, 8-Channel, 1MSPS*	20-TSSOP	9.84	7.88	6.65
AD7933BRUZ-ND	ADC 10-Bit, 4-Channel, 1.5MSPS*	28-TSSOP	7.26	5.81	4.91
AD7938BSUZ-6REEL7CT-ND	ADC 12-Bit, 8-Channel, 625kSPS*	32-TQFP	8.38	7.55	6.69
AD7938BSUZ-6REEL7TR-ND	ADC 12-Bit, 8-Channel, 625kSPS*	32-TQFP	3143.75/500		
AD7940BRJZ-REEL7CT-ND	ADC 14-Bit, 100kSPS, Unipolar*	SOT-23-6	8.30	6.64	5.61
AD7940BRJZ-REEL7TR-ND	ADC 14-Bit, 100kSPS, Unipolar*	SOT-23-6	15438.00/3,000		
AD7942BRMZ-ND	ADC 14-Bit, 250kSPS PulSAR®*	10-MSOP	9.84	7.88	6.65
AD7944BCPZ-ND	ADC 14-Bit, 2.5MSPS PulSAR®* ***NEW!***	20-LFCSP	16.64	14.99	13.29
AD7946BRMZ-ND	ADC 14-Bit, 500kSPS PulSAR®*	10-MSOP	12.43	11.19	9.93
AD7949BCPZ-ND	ADC 14-Bit, 250kSPS, 8-Ch., PulSAR®*	20-LFCSP	8.08	6.47	5.46
AD7951BSTZ-ND	ADC 14-Bit, 1MSPS PulSAR®*	48-LQFP	16.68	15.57	14.46
AD7980ARMZRL7CT-ND	ADC 16-Bit, 1MSPS PulSAR®*	10-MSOP	18.14	16.93	15.72
AD7980ARMZRL7TR-ND	ADC 16-Bit, 1MSPS PulSAR®*	10-MSOP	14931.15/1,000		
AD7980BRMZ-ND	ADC 16-Bit, 1MSPS PulSAR®*	10-MSOP	24.21	22.60	20.99
AD7982BCPZ-RL7CT-ND	ADC 18-Bit, 1MSPS PulSAR®* ***NEW!***	10-LFCSP	34.92	32.60	30.27
AD7982BCPZ-RL7TR-ND	ADC 18-Bit, 1MSPS PulSAR®* ***NEW!***	10-LFCSP	43126.20/1,500		
AD7982BRMZ-ND	ADC 18-Bit, 1MSPS PulSAR®*	10-MSOP	34.92	32.60	30.27
AD7983BRMZ-ND	ADC 16-Bit, 1.33MSPS PulSAR®*	10-MSOP	30.29	28.27	26.25
AD7984BRMZ-ND	ADC 18-Bit, 1.33MSPS PulSAR®*	10-MSOP	42.44	39.61	36.78
AD7985BCPZ-ND	ADC 16-Bit, 2.5MSPS PulSAR®* ***NEW!***	20-LFCSP	40.44	37.75	35.05
AD7986BCPZ-ND	ADC 18-Bit, 2MSPS PulSAR®* ***NEW!***	20-LFCSP	44.93	41.93	38.94
AD7991YRJZ-0500RL7CT-ND	ADC 12-Bit, 4-Channel, I^{2}C*	SOT-23-8	6.62	5.30	4.47
AD7991YRJZ-0500RL7TR-ND	ADC 12-Bit, 4-Channel, I^{2}C*	SOT-23-8	2101.85/500		
AD7991YRJZ-1500RL7CT-ND	ADC 12-Bit, 4-Channel, I^{2}C*	SOT-23-8	6.62	5.30	4.47
AD7991YRJZ-1500RL7TR-ND	ADC 12-Bit, 4-Channel, I^{2}C*	SOT-23-8	2101.85/500		
EVAL-AD7991EBZ-ND	Evaluation Board for AD7991*	—	130.55	—	—
AD7994BRUZ-0-ND	ADC 12-Bit, 4-Channel, I^{2}C*	16-TSSOP	6.74	5.40	4.55
AD7995YRJZ-0500RL7CT-ND	ADC 10-Bit, 4-Channel, I^{2}C*	SOT-23-8	5.24	4.20	3.27
AD7995YRJZ-0500RL7TR-ND	ADC 10-Bit, 4-Channel, I^{2}C*	SOT-23-8	1514.50/500		
AD7995YRJZ-1500RL7CT-ND	ADC 10-Bit, 4-Channel, I^{2}C*	SOT-23-8	5.24	4.20	3.27
AD7995YRJZ-1500RL7TR-ND	ADC 10-Bit, 4-Channel, I^{2}C*	SOT-23-8	1514.50/500		
AD7992BRMZ-1-ND	ADC 12-Bit, 2-Channel, I^{2}C*	10-MSOP	6.22	4.98	4.20
AD7993BRUZ-0-ND	ADC 10-Bit, 4-Channel, I^{2}C*	16-TSSOP	4.41	3.53	2.75
AD7997BRUZ-1-ND	ADC 10-Bit, 8-Channel, I^{2}C*	20-TSSOP	5.24	4.20	3.27

ANALOG DEVICES DigiReel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7998BRUZ-1-ND	ADC 12-Bit, 8-Channel, I^{2}C*	20-TSSOP	7.76	6.21	5.24
AD7999YRJZ-1500RL7CT-ND	ADC 8-Bit, 8-Channel, I^{2}C*	SOT-23-8	3.62	2.90	2.26
AD7999YRJZ-1500RL7TR-ND	ADC 8-Bit, 8-Channel, I^{2}C*	SOT-23-8	1046.50/500		
AD9042ASTZ-ND	ADC 12-Bit, 41MSPS*	44-TQFP	45.33	42.31	39.29
AD9054ABSTZ-135-ND	ADC 8-Bit, 135MSPS*	44-LQFP	28.44	26.55	24.65
AD9200ARSZ-ND	ADC CMOS 10-Bit, 20MSPS*	28-SSOP	5.18	4.15	3.50
AD9200JRSZ-ND	ADC CMOS 10-Bit, 20MSPS*	28-SSOP	5.18	4.15	3.50
AD9201ARSZ-ND	ADC CMOS 10-Bit 2-Channel*	28-SSOP	8.55	7.70	6.83
AD9203ARUZ-ND	ADC 10-Bit, 40MSPS, 3V*	28-TSSOP	7.76	6.21	5.24
AD9204BCPZ-20-ND	ADC Dual 10-Bit, 20MSPS, 1.8V* ***NEW!***	64-LFCSP	8.53	7.68	6.81
AD9204BCPZ-40-ND	ADC Dual 10-Bit, 40MSPS, 1.8V* ***NEW!***	64-LFCSP	12.28	11.06	9.81
AD9204BCPZ-65-ND	ADC Dual 10-Bit, 65MSPS, 1.8V* ***NEW!***	64-LFCSP	12.78	11.51	10.21
AD9204BCPZ-80-ND	ADC Dual 10-Bit, 80MSPS, 1.8V* ***NEW!***	64-LFCSP	15.36	14.34	13.32
AD9212-65EBZ-ND	Evaluation Board for AD9212-65*	—	271.88	—	—
AD9214BRSZ-105-ND	ADC 10-Bit, 105MSPS, 3V*	28-SSOP	16.25	15.17	14.08
AD9215BRUZ-105-ND	ADC 10-Bit, 105MSPS, 3V*	28-TSSOP	12.64	11.39	10.10
AD9216BCPZ-65-ND	ADC Dual 10-Bit, 65MSPS*	64-LFCSP	12.94	11.66	10.34
AD9218BSTZ-40-ND	ADC 10-Bit, 40MSPS Dual*	48-LQFP	15.53	13.98	12.40
AD9219-65EBZ-ND	Evaluation Board for AD9219-65*	—	217.58	—	—
AD9220ARZ-ND	ADC 12-Bit, 10MSPS*	28-SOIC	10.45	9.41	8.34
AD9220ARSZ-ND	ADC 12-Bit, 10MSPS*	28-SSOP	10.45	9.41	8.34
AD9223ARSZ-ND	ADC 12-Bit, 3MSPS*	28-SSOP	13.21	11.90	10.55
AD9224ARSZ-ND	ADC 12-Bit, 40MSPS*	28-SSOP	18.72	17.48	16.23
AD9225ARZ-ND	ADC 12-Bit, 25MSPS*	28-SOIC	22.22	20.74	19.26
AD9225ARSZ-ND	ADC 12-Bit, 25MSPS*	28-SSOP	22.22	20.74	19.26
AD9226ASTZ-ND	ADC 12-Bit, 65MSPS*	48-LQFP	31.58	29.47	27.37
AD9230BCPZ-170-ND	ADC 12-Bit, 170MSPS, 1.8V*	56-LFCSP	54.38	50.75	47.13
AD9233-125EBZ-ND	Evaluation Board for AD9233*	—	217.58	—	—
AD9233BCPZ-125-ND	ADC 12-Bit, 125MSPS, 1.8V*	48-LFCSP	41.88	39.09	36.30
AD9235-65PCB-ND	Evaluation Board for AD9235-65	—	202.40	—	—
AD9235BRUZ-20-ND	ADC 12-Bit, 20MSPS*	28-TSSOP	12.10	10.89	9.66
AD9235BRUZ-40-ND	ADC 12-Bit, 40MSPS*	28-TSSOP	13.64	12.29	10.90
AD9235BRUZ-65-ND	ADC 12-Bit, 65MSPS*	28-TSSOP	18.65	17.41	16.16
AD9236BCPZ-80-ND	ADC 12-Bit, 80MSPS, 3V*	32-LFCSP	25.65	23.94	22.23
AD9238BSTZ-20-ND	ADC 12-Bit Dual 20MSPS*	64-LQFP	17.12	15.98	14.84
AD9238BSTZ-40-ND	ADC 12-Bit Dual 40MSPS*	64-LQFP	18.65	17.41	16.16
AD9238BSTZ-65-ND	ADC 12-Bit Dual 65MSPS*	64-LQFP	27.96	26.10	24.24
AD9240ASZ-ND	ADC 14-Bit, 10MSPS*	44-MQFP	28.20	26.32	24.44
AD9241ASZ-ND	ADC 14-Bit, 1.25MSPS*	44-MQFP	16.13	14.52	12.88
AD9243ASZ-ND	ADC 14-Bit, 3MSPS*	44-MQFP	17.94	16.75	15.55
AD9244BSTZ-40-ND	ADC 14-Bit, 40MSPS*	48-LQFP	28.97	27.04	25.11
AD9244BSTZ-65-ND	ADC 14-Bit, 65MSPS*	48-LQFP	38.60	36.03	33.45
AD9245BCPZ-80-ND	ADC 14-Bit, 80MSPS, 3V*	32-LFCSP	48.17	44.96	41.75
AD9246BCPZ-80-ND	ADC 14-Bit, 80MSPS, 1.8V*	48-LFCSP	38.84	36.25	33.66
AD9246BCPZ-125-ND	ADC 14-Bit, 125MSPS, 1.8V*	48-LFCSP	75.35	70.33	65.30
AD9248BSTZ-20-ND	ADC 14-Bit, 20MSPS, Dual*	64-LQFP	29.13	27.19	25.25
AD9248BSTZ-40-ND	ADC 14-Bit, 40MSPS, Dual*	64-LQFP	36.90	34.44	31.98
AD9254BCPZ-150-ND	ADC 14-Bit, 150MSPS, 1.8V*	48-LFCSP	85.46	79.76	74.07
AD9258BCPZ-125-ND	ADC 14-Bit, 125MSPS, Dual* ***NEW!***	64-LFCSP	143.55	133.98	124.41
AD9260ASZ-ND	ADC CMOS 16-Bit Oversampled*	44-MQFP	68.21	63.66	59.12
AD9271BSVZ-50-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch*	100-TQFP	111.89	104.43	96.97
AD9272BSVZ-40-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch, 12-Bit, 40MSPS*	100-TQFP	82.91	77.38	71.86
AD9272BSVZ-65-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch, 12-Bit, 65MSPS*	100-TQFP	85.98	80.25	74.52
AD9272BSVZ-80-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch, 12-Bit, 80MSPS*	100-TQFP	95.19	88.85	82.50
AD9273BSVZ-50-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch, 12-Bit, 50MSPS* ***NEW!***	100-TQFP	89.06	83.12	77.19
AD9280ARSZ-ND	ADC CMOS 8-Bit, 32MSPS*	28-SSOP	4.91	3.93	3.06
AD9281ARSZ-ND	ADC 8-Bit Dual CMOS*	28-SSOP	7.82	6.26	5.28
AD9283BRSZ-50-ND	ADC 8-Bit, 50MSPS, 3V*	20-SSOP	5.18	4.15	3.50
AD9283BRSZ-100-ND	ADC 8-Bit, 100MSPS, 3V*	20-SSOP	9.50	8.55	7.59
AD9287-100EBZ-ND	Evaluation Board for AD9287*	—	217.58	—	—
AD9430BSVZ-170-ND	ADC 12-Bit, 170MSPS, 3.3V*	100-TQFP	61.40	57.31	53.21
AD9430BSVZ-210-ND	ADC 12-Bit, 210MSPS, 3.3V*	100-TQFP	85.49	79.79	74.09
AD9432BSTZ-105-ND	ADC 12-Bit, 105MSPS*	52-LQFP	50.45	47.09	43.72
AD9446BSVZ-100-ND	ADC 16-Bit, 100MSPS*	100-TQFP	88.05	82.18	76.31
AD9460BSVZ-80-ND	ADC 16-Bit, 80MSPS*	100-TQFP	75.09	70.09	65.08
AD9460-80LVDS/PCB-ND	Evaluation Board for AD9460-80*	—	215.00	—	—
AD9460BSVZ-105-ND	ADC 16-Bit, 105MSPS*	100-TQFP	88.05	82.18	76.31
AD9461BSVZ-ND	ADC 16-Bit, 130MSPS IF Sampling*	100-TQFP	101.00	94.27	87.53
AD9481BSUZ-250-ND	ADC 8-Bit, 250MSPS, 3.3V*	44-TQFP	24.86	23.20	21.55
AD9609BCPZ-20-ND	ADC 10-Bit, 20MSPS, 1.8V* ***NEW!***	32-LFCSP	7.16	5.73	4.84
AD9609BCPZ-40-ND	ADC 10-Bit, 40MSPS, 1.8V* ***NEW!***	32-LFCSP	7.68	6.15	5.19
AD9609BCPZ-65-ND	ADC 10-Bit, 65MSPS, 1.8V* ***NEW!***	32-LFCSP	8.52	6.82	5.76
AD9609BCPZ-80-ND	ADC 10-Bit, 80MSPS, 1.8V* ***NEW!***	32-LFCSP	9.20	7.36	6.21
AD9627-150EBZ-ND	Evaluation Board for AD9627-150*	—	217.58	—	—
AD9639BCPZ-170-ND	ADC 12-Bit, 170MSPS, Quad, 1.8V* ***NEW!***	72-LFCSP	155.30	144.95	134.59
AD9639BCPZ-210-ND	ADC 12-Bit, 210MSPS, Quad, 1.8V* ***NEW!***	72-LFCSP	186.62	174.18	161.74
AD9823KRUZ-ND	Correlated Double Sampler*	14-TSSOP	6.10	4.88	4.12
ADA4922-1ARDZ-ND	ADC 18-Bit Differential Driver*	8-SOIC	7.26	5.81	4.91
ADA4937-1YCPZ-R7CT-ND	ADC Differential Driver*	16-LFCSP	7.58	6.07	5.12
ADA4937-1YCPZ-R7TR-ND	ADC Differential Driver*	16-LFCSP	7106.25/1,500		
ADA4939-1YCPZ-R7CT-ND	ADC Ultralow Distortion Differential Driver*	16-LFCSP	7.58	6.07	5.12
ADA4939-1YCPZ-R7TR-ND	ADC Ultralow Distortion Differential Driver*	16-LFCSP	7106.25/1,500		
ADA4939-2YCPZ-R7CT-ND	ADC Ultralow Distortion Differential Driver*	24-LFCSP	9.48	8.54	7.57
HSC-ADC-EVALB-DCZ-ND	HS ADC FIFO Evaluation Kit*	—	543.95	—	—
HSC-ADC-EVALB-SCZ-ND	HS ADC USB FIFO Evaluation Kit*	—	537.50	—	—
HSC-ADC-EVALCZ-ND	HS ADC USB FIFO Evaluation Kit*	—	652.74	—	—
Capacitance-to-Digital Converters — RoHS Compliant					
AD7142ACPZ-1REELCT-ND	Prog. CDC with Environmental Compensation	32-LFCSP	3.08	2.47	1.92
AD7142ACPZ-REELCT-ND	Prog. CDC with Environmental Compensation	32-LFCSP	3.08	2.47	1.92
AD7143ACPZ-1500RL7CT-ND	Prog. Controller for Capacitance Touch Sensor	16-LFCSP	2.81	2.25	1.75
AD7143ACPZ-1500RL7TR-ND	Prog. Controller for Capacitance Touch Sensor	16-LFCSP	812.50/500		
AD7147ACPZ-500RL7CT-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	2.88	2.31	1.80
AD7147ACPZ-500RL7TR-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	832.00/500		
AD7147ACPZ-1500RL7CT-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	2.88	2.31	1.80
AD7147ACPZ-1500RL7TR-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	832.00/500		

* *RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD7147PACPZ-500R7CT-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	2.88	2.31	1.80
AD7147PACPZ-500R7TR-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	832.00/500		
AD7147PACPZ-1500R7CT-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	2.88	2.31	1.80
AD7147PACPZ-1500R7TR-ND	CapTouch Prog. Controller for Single- Electrode Capacitance Sensor	24-LFCSP	832.00/500		
EVAL-AD7147-1EBZ-ND	Evaluation Board for AD7147ACPZ-1	—	177.10	—	—
EVAL-AD7147EBZ-ND	Evaluation Board for AD7147ACPZ	—	177.10	—	—
AD7148ACPZ-1500RL7CT-ND	Programmable Controller for Single- Electrode Capacitance Sensor	16-LFCSP	2.72	2.18	1.70
AD7148ACPZ-1500RL7TR-ND	Programmable Controller for Single- Electrode Capacitance Sensor	16-LFCSP	786.50/500		
AD7150BRMZ-ND	Ultra-Low Power, 2-Ch. Capacitance Converter for Proximity Sensing	10-MSOP	3.17	2.54	1.98
EVAL-AD7150EBZ-ND	Evaluation Board for AD7150	—	70.33	—	—
AD7151BRMZ-ND	Ultra-Low Power, 1-Ch. Capacitance Converter for Proximity Sensing	10-MSOP	3.17	2.54	1.98
AD7152BRMZ-ND	12-Bit Capacitance-to-Digital Converter	10-MSOP	4.57	3.66	2.85
EVAL-AD7152EBZ-ND	Evaluation Board for AD7152	—	70.33	—	—
AD7153BRMZ-ND	12-Bit Capacitance-to-Digital Converter	10-MSOP	4.05	3.24	2.52
AD7156BCPZ-REEL7CT-ND	1.8V, Ultralow Power, 2-Channel Capacitance Converter	10-LFCSP	2.81	2.25	1.75
AD7156BCPZ-REEL7TR-ND	1.8V, Ultralow Power, 2-Channel Capacitance Converter	10-LFCSP	2390.63/1,500		
AD7745ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor	16-TSSOP	9.50	7.60	6.42
AD7746ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor	16-TSSOP	8.58	7.73	6.85
EVAL-AD7746EBZ-ND	Evaluation Board for AD7746	—	151.80	—	—
AD7747ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor	16-TSSOP	9.50	7.60	6.42
EVAL-AD7747EBZ-ND	Evaluation Board for AD7747	—	130.55	—	—
Digital-to-Analog					
AD390SD-ND	DAC Quad 12-Bit	28-CDip	689.09	643.15	597.21
AD420ANZ-32-ND	DAC Serial 16-Bit*	24-Dip	17.88	16.69	15.50
AD420ARZ-32-ND	DAC Serial 16-Bit*	24-SOIC	17.37	16.22	15.06
AD421BNZ-ND	DAC Serial 16-Bit*	16-Dip	12.01	10.82	9.59
AD421BRZ-ND	DAC Serial 16-Bit*	16-SOIC	11.66	10.50	9.31
AD557JPZ-ND	DAC 8-Bit Voltage Out*	20-PLCC	9.86	7.89	6.66
AD558JNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	13.21	11.90	10.55
AD558KNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	18.02	16.82	15.62
AD569JNZ-ND	DAC 16-Bit Mono*	28-Dip	42.26	39.44	36.63
AD569JPZ-ND	DAC 16-Bit Mono*	28-PLCC	48.56	45.32	42.09
AD569KPZ-ND	DAC 16-Bit Mono*	28-PLCC	61.44	57.35	53.25
AD660ANZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-Dip	26.34	24.59	22.83
AD660ARZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-SOIC	25.56	23.86	22.16
AD660BRZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-SOIC	38.36	35.80	33.25
AD667JNZ-ND	DAC 12-Bit Voltage Out*	28-Dip	18.09	16.89	15.68
AD667KPZ-ND	DAC 12-Bit Voltage Out* ***NEW!***	28-PLCC	25.32	23.64	21.95
AD669ANZ-ND	DACPORT® 16-Bit Monolithic*	28-Dip	26.34	24.59	22.83
AD669BNZ-ND	DACPORT® 16-Bit Monolithic*	28-Dip	39.50	36.87	34.23
AD669BRZ-ND	DACPORT® 16-Bit Monolithic*	28-SOIC	34.46	32.16	29.87
AD760AQ-ND	DAC 16-Bit with Amp Serial	28-CDip	112.88	105.35	97.83
AD766JNZ-ND	DAC 16-Bit DSP*	16-Dip	21.11	19.70	18.30
AD767JNZ-ND	DAC 12-Bit*	24-Dip	18.57	17.34	16.10
AD767JPZ-ND	DAC 12-Bit*	28-PLCC	18.93	17.67	16.41
AD768ARZ-ND	DAC 16-Bit, 30MSPS*	28-SOIC	37.34	34.85	32.36
AD1851RZ-ND	DAC Audio 16-Bit PCM*	16-SOIC	10.23	9.21	8.17
AD1852JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	11.75	10.58	9.38
AD1853JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	13.21	11.90	10.55
AD1854JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	8.80	7.92	7.03
AD1934YSTZ-ND	DAC 8-Channel with PLL, 192kHz, 24-Bit*	48-LQFP	6.30	5.04	4.26
AD1955ARSZ-ND	DAC Audio Multi-Bit*	28-SSOP	11.43	10.29	9.13
AD5024BRUZ-ND	DAC 12-Bit, 4.5V-5.5V SPI*	16-TSSOP	8.70	7.83	6.95
AD5025BRUZ-ND	nanoDAC® 12-Bit, Dual 4.5V-5.5V*	14-TSSOP	5.51	4.41	3.43
AD5040BRJZ-REEL7CT-ND	DAC 14-Bit, 2.7V-5.5V SPI*	SOT-23-8	10.03	9.03	8.01
AD5044BRUZ-ND	nanoDAC® 14-Bit, Quad 4.5V-5.5V*	16-TSSOP	17.28	16.13	14.98
AD5060ARJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	8.91	8.03	7.12
AD5060ARJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	19500.75/3,000		
AD5060ARJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	8.91	8.03	7.12
AD5060BRJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	10.25	9.23	8.18
AD5060BRJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	22416.75/3,000		
AD5060BRJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	10.25	9.23	8.18
AD5060BRJZ-2REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	22416.75/3,000		
AD5060YRJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	11.80	10.62	9.42
AD5060YRJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	25806.60/3,000		
AD5061BRJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	6.78	5.43	4.58
AD5061BRJZ-2REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	12610.80/3,000		
AD5063BRMZ-ND	nanoDAC® 16-Bit, 2.7V~5.5V SPI*	10-MSOP	9.98	8.99	7.97
AD5063BRMZ-1-ND	nanoDAC® 16-Bit, 2.7V~5.5V SPI* ***NEW!***	10-MSOP	9.98	8.99	7.97
AD5064ARUZ-1-ND	nanoDAC® 16-Bit, Quad 4.5V~5.5V SPI* ***NEW!***	14-TSSOP	21.06	19.66	18.26
AD5064BRUZ-ND	nanoDAC® 16-Bit, Quad 4.5V~5.5V SPI*	16-TSSOP	24.18	22.57	20.96
AD5064BRUZ-1-ND	nanoDAC® 16-Bit, Quad 4.5V~5.5V SPI*	14-TSSOP	24.18	22.57	20.96
AD5065ARUZ-ND	nanoDAC® 16-Bit, Dual 4.5V~5.5V* ***NEW!***	14-TSSOP	14.59	13.14	11.66
AD5065BRUZ-ND	nanoDAC® 16-Bit, Dual 4.5V~5.5V*	14-TSSOP	15.11	14.10	13.10
AD5066ARUZ-ND	nanoDAC® 16-Bit, Quad 2.7V~5.5V* ***NEW!***	16-TSSOP	17.88	16.69	15.50
AD5066BRUZ-ND	nanoDAC® 16-Bit, Quad 2.7V~5.5V* ***NEW!***	16-TSSOP	20.55	19.18	17.81
AD5300BRMZ-ND	DAC 8-Bit Rail-to-Rail 2.7V~5.5V*	8-MSOP	3.02	2.42	1.88
AD5300BRTZREEL7CT-ND	DAC 8-Bit Rail-to-Rail 2.7V~5.5V*	SOT-23-6	2.86	2.29	1.78
AD5300BRTZREEL7TR-ND	DAC 8-Bit Rail-to-Rail 2.7V~5.5V*	SOT-23-6	4800.60/3,000		
AD5301BRMZ-ND	DAC 8-Bit, 2.5V, 2-Wire*	8-MSOP	3.40	2.72	2.12
AD5301BRTZ500RLCT-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	3.20	2.56	1.99
AD5301BRTZ500RLTR-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	923.00/500		
AD5302ARMZ-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V*	10-MSOP	2.61	2.09	1.63
AD5302BRM-REEL7CT-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V	10-MSOP	5.45	4.36	3.39
AD5302BRMZ-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V*	10-MSOP	4.73	3.78	2.94
AD5304BRMZ-ND	DAC 8-Bit Quad Voltage Out*	10-MSOP	6.34	5.08	4.28
AD5304ARMZ-REEL7CT-ND	DAC 8-Bit Quad Voltage Out*	10-MSOP	4.48	3.59	2.79
AD5304ARMZ-REEL7TR-ND	DAC 8-Bit Quad Voltage Out*	10-MSOP	2537.25/1,000		
AD5305ARMZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V~5.5V*	10-MSOP	4.59	3.68	2.86
AD5305BRMZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V~5.5V*	10-MSOP	6.34	5.08	4.28

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5306ARUZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V~5.5V*	16-TSSOP	5.20	4.16	3.24
AD5306BRUZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V~5.5V*	16-TSSOP	6.76	5.41	4.57
AD5308ARUZ-ND	DAC 8-Bit, 2.5V Octal*	16-TSSOP	5.32	4.26	3.60
AD5308BRUZ-ND	DAC 8-Bit, 2.5V Octal*	16-TSSOP	8.68	6.95	5.86
AD5310BRMZ-ND	DAC 10-Bit Rail-to-Rail with Buffer*	8-MSOP	4.10	3.28	2.55
AD5310BRT-REELCT-ND	DAC 10-Bit Rail-to-Rail with Buffer	SOT-23-6	4.46	3.57	2.78
AD5310BRTZ-REELCT-ND	DAC 10-Bit Rail-to-Rail with Buffer*	SOT-23-6	3.87	3.10	2.41
AD5310BRTZ-REELTR-ND	DAC 10-Bit Rail-to-Rail with Buffer*	SOT-23-6	21070.00/10,000		
AD5311BRMZ-ND	DAC 10-Bit, 2-Wire with Buffer*	8-MSOP	4.73	3.78	2.94
AD5311BRTZ-REEL7CT-ND	DAC 10-Bit, 2-Wire with Buffer*	SOT-23-6	4.43	3.55	2.76
AD5311BRTZ-REEL7TR-ND	DAC 10-Bit, 2-Wire with Buffer*	SOT-23-6	7446.60/3,000		
AD5312ARMZ-ND	DAC 10-Bit Dual Rail-to-Rail Out*	10-MSOP	4.37	3.50	2.72
AD5312BRMZ-ND	DAC 10-Bit Dual Rail-to-Rail Out*	10-MSOP	5.16	4.13	3.49
AD5313ARUZ-ND	DAC 10-Bit Dual R-R Voltage Out, 2.5V to 5.5V*	16-TSSOP	4.73	3.78	2.94
AD5314ARMZ-ND	DAC 10-Bit Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	5.58	4.47	3.77
AD5314BRMZ-ND	DAC 10-Bit Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	7.62	6.10	5.15
AD5315ARMZ-REEL7CT-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	5.68	4.55	3.84
AD5315ARMZ-REEL7TR-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	3550.00/1,000		
AD5315BRMZ-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	7.62	6.10	5.15
AD5316BRUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	8.04	6.44	5.43
AD5317ARUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	5.84	4.68	3.95
AD5317BRUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	8.04	6.44	5.43
AD5318ARUZ-ND	DAC 10-Bit, 2.5V Octal*	16-TSSOP	8.38	6.71	5.66
AD5318BRUZ-ND	DAC 10-Bit, 2.5V Octal*	16-TSSOP	8.51	7.67	6.80
AD5320BRMZ-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	8-MSOP	5.38	4.31	3.64
AD5320BRTZREEL7CT-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	SOT-23-6	5.06	4.05	3.42
AD5320BRTZREEL7TR-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	SOT-23-6	9411.60/3,000		
AD5321BRMZ-ND	DAC 12-Bit, 2.5V 2-Wire*	8-MSOP	6.34	5.08	4.28
AD5322BRMZ-ND	DAC 12-Bit Dual Rail-to-Rail Out*	10-MSOP	9.12	7.30	6.16
AD5323BRUZ-ND	DAC 12-Bit Dual Rail-to-Rail*	16-TSSOP	9.68	7.75	6.54
AD5324BRMZ-ND	DAC 12-Bit Quad 2.5V*	10-MSOP	12.43	11.19	9.93
AD5325BRMZ-ND	DAC 12-Bit, 2-Wire I^2C*	10-MSOP	12.43	11.19	9.93
AD5326ARUZ-ND	DAC 12-Bit Quad with Buffer*	16-TSSOP	9.48	8.54	7.57
AD5326BRUZ-ND	DAC 12-Bit Quad with Buffer*	16-TSSOP	12.98	11.69	10.37
AD5327BRUZ-ND	DAC 12-Bit Quad 2.5V*	16-TSSOP	12.98	11.69	10.37
AD5328ARUZ-ND	DAC 12-Bit, 2.5V Octal*	16-TSSOP	12.43	11.19	9.93
AD5328BRUZ-ND	DAC 12-Bit, 2.5V Octal*	16-TSSOP	14.61	13.16	11.67
AD5330BRUZ-ND	DAC 8-Bit Single Voltage Out*	20-TSSOP	4.73	3.78	2.94
AD5331BRUZ-ND	DAC 10-Bit Single Voltage Out*	20-TSSOP	5.06	4.05	3.15
AD5333BRUZ-ND	DAC 10-Bit Dual Voltage Out*	24-TSSOP	6.44	5.16	4.35
AD5334BRUZ-ND	DAC 8-Bit Quad Voltage Out*	24-TSSOP	7.20	5.76	4.86
AD5336BRUZ-ND	DAC 10-Bit Quad Voltage Out*	28-TSSOP	8.60	6.88	5.81
AD5337ARMZ-ND	DAC 8-Bit Dual 2-Wire*	8-MSOP	2.68	2.15	1.67
AD5338ARMZ-ND	DAC 10-Bit Dual 2-Wire*	8-MSOP	4.59	3.68	2.86
AD5343BRUZ-ND	DAC 12-Bit Dual Voltage Out*	20-TSSOP	8.41	7.58	6.72
AD5344BRUZ-ND	DAC 12-Bit Quad Voltage Out*	28-TSSOP	14.23	12.81	11.36
AD5346BCP-ND	DAC 8-Bit Octal Voltage Out	40-LFCSP	7.42	5.94	5.01
AD5348BRUZ-ND	DAC 12-Bit Octal Voltage Out*	38-TSSOP	15.03	13.53	12.00
AD5360BSTZ-ND	DAC 16-Bit, 16-Ch., Serial-In, Volt. Out*	52-LQFP	46.46	43.36	40.27
AD5361BSTZ-ND	DAC 14-Bit, 16-Channel, Serial-In, Voltage Out*	52-LQFP	42.72	39.88	37.03
AD5362BCPZ-ND	DAC 16-Bit, 8-Channel, Serial-In, Voltage Out*	56-LFCSP	37.14	34.67	32.19
AD5362BSTZ-ND	DAC 16-Bit, 8-Channel, Serial-In, Voltage Out*	52-LQFP	37.14	34.67	32.19
AD5372BSTZ-ND	DAC 16-Bit, 32-Ch., Serial-In, Voltage Out*	64-LQFP	82.20	76.72	71.24
AD5384BBC-5-ND	DAC 14-Bit, 40-Channel Voltage Out	100-CSPBGA	88.83	82.91	76.99
AD5390BSTZ-5-ND	DAC 14-Bit, 16-Channel*	52-LQFP	37.14	34.67	32.19
AD5391BCPZ-3-ND	DAC 12-Bit, 16-Channel Voltage Out*	64-LFCSP	30.92	28.86	26.80
AD5398ABCBZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking*	9-WLCSP	1.17	.98	.78
AD5398BCBZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking*	9-WLCSP	3.44	2.76	2.15
AD5398BCPZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking*	8-LFCSP	3.44	2.76	2.15
AD5405YCPZ-ND	DAC 12-Bit Dual, Multiplying*	40-LFCSP	8.12	6.50	5.49
AD5410AREZ-ND	DAC 16-Bit Single, Serial Input*	24-TSSOP	7.12	5.70	4.81
AD5412ACPZ-REEL7CT-ND	DAC 12-Bit Single, Serial Input* ***NEW!***	40-LFCSP	7.58	6.07	5.12
AD5412ACPZ-REEL7TR-ND	DAC 12-Bit Single, Serial Input* ***NEW!***	40-LFCSP	3609.98/750		
AD5412AREZ-ND	DAC 12-Bit Single, Serial Input* ***NEW!***	24-TSSOP	8.04	6.44	5.43
AD5415YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	24-TSSOP	8.02	6.42	5.42
AD5420AREZ-ND	DAC 16-Bit Single, Serial Input* ***NEW!***	24-TSSOP	9.16	7.33	6.19
AD5422AREZ-ND	DAC 16-Bit Single, Serial Input* ***NEW!***	24-TSSOP	8.75	7.88	6.99
AD5422BREZ-ND	DAC 16-Bit Single, Serial Input* ***NEW!***	24-TSSOP	10.35	9.32	8.26
AD5424YRUZ-ND	DAC 8-Bit Multiplying*	16-TSSOP	3.62	2.90	2.26
AD5428YRUZ-ND	DAC 8-Bit Dual Multiplying, High Bandwidth*	20-TSSOP	4.59	3.68	2.86
AD5429YRU-REEL7TR-ND	DAC 8-Bit Multiplying, High Bandwidth	16-TSSOP	4125.00/1,000		
EVAL-AD5429EB-ND	Evaluation Board for AD5429	—	92.81	—	—
AD5432YRMZ-ND	DAC 10-Bit Multiplying, High Bandwidth*	10-MSOP	5.56	4.45	3.46
AD5439YRUZ-ND	DAC 10-Bit Multiplying, High Bandwidth*	16-TSSOP	6.02	4.82	4.07
AD5441BCPZ-REEL7CT-ND	DAC 12-Bit Multiplying, Serial-In*	8-LFCSP	5.63	4.50	3.50
AD5441BRMZ-ND	DAC 12-Bit Multiplying, Serial-In*	8-MSOP	5.30	4.24	3.58
AD5443YRMZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	10-MSOP	5.38	4.31	3.64
AD5444YRMZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	10-MSOP	5.58	4.47	3.77
AD5445YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	20-TSSOP	5.48	4.39	3.70
AD5446YRMZ-ND	DAC 14-Bit Multiplying, High Bandwidth*	10-MSOP	9.76	7.81	6.59
AD5447YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	24-TSSOP	7.98	6.39	5.39
AD5449YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	16-TSSOP	7.90	6.32	5.34
AD5450YUJZ-REEL7CT-ND	DAC 8-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	3.20	2.56	1.99
AD5450YUJZ-REEL7TR-ND	DAC 8-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	5367.60/3,000		
AD5451YUJZ-REEL7CT-ND	DAC 10-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	5.24	4.20	3.27
AD5451YUJZ-REEL7TR-ND	DAC 10-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	8807.40/3,000		
AD5452YRMZ-ND	DAC 12-Bit Multiplying, High Bandwidth* ***NEW!***	8-MSOP	5.38	4.31	3.64
AD5452YUJZ-REEL7CT-ND	DAC 12-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	5.06	4.05	3.42
AD5452YUJZ-REEL7TR-ND	DAC 12-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	9411.60/3,000		
AD5453YRMZ-ND	DAC 14-Bit Multiplying, High Bandwidth* ***NEW!***	8-MSOP	9.64	7.72	6.51
AD5453YRMZ-REEL7CT-ND	DAC 14-Bit Multiplying, High Bandwidth*	8-MSOP	9.64	7.72	6.51
AD5453YRMZ-REEL7TR-ND	DAC 14-Bit Multiplying, High Bandwidth*	8-MSOP	6025.00/1,000		
AD5453YUJZ-REEL7CT-ND	DAC 14-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	9.18	7.35	6.20
AD5453YUJZ-REEL7TR-ND	DAC 14-Bit Multiplying, High Bandwidth* ***NEW!***	TSOT-23-8	17074.80/3,000		
AD5530BRUZ-ND	DAC 12-Bit Serial-In/Voltage Out*	16-TSSOP	9.12	7.30	6.16
AD5531BRUZ-ND	DAC 14-Bit Serial-In/Voltage Out*	16-TSSOP	12.43	11.19	9.93
AD5532ABCZ-1-ND	DAC 14-Bit, 32-Channel Sample/Hold*	74-CSPBGA	75.83	70.77	65.72
AD5541ARZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	15.09	14.09	13.08
AD5541BRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	17.16	16.02	14.88
AD5541CRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	27.45	25.62	23.79

*** *RoHS Compliant***

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5541JRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	15.24	13.73	12.17
AD5541LRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	20.58	19.21	17.84
AD5542ARZ-ND	DAC 16-Bit Serial-In*	14-SOIC	15.09	14.09	13.08
AD5542CRZ-ND	DAC 16-Bit Serial-In*	14-SOIC	27.45	25.62	23.79
AD5542LRZ-ND	DAC 16-Bit Serial-In*	14-SOIC	20.58	19.21	17.84
AD5543BRMZ-ND	DAC 16-Bit Serial-In/Current Out*	8-MSOP	12.53	11.28	10.01
AD5543BRZ-ND	DAC 16-Bit Serial-In/Current Out*	8-SOIC	12.53	11.28	10.01
AD5543CRMZ-ND	DAC 16-Bit Serial-In/Current Out* ***NEW!***	8-MSOP	14.54	13.10	11.62
AD5544ARSZ-ND	DAC 16-Bit Quad Serial-In/Current Out*	28-SSOP	26.90	25.11	23.31
AD5544BRSZ-ND	DAC 16-Bit Quad Serial-In/Current Out* ***NEW!***	28-SSOP	31.04	28.97	26.90
AD5545BRUZ-ND	DAC 16-Bit Dual Serial-In/Current Out*	16-TSSOP	14.81	13.34	11.83
AD5545CRUZ-ND	DAC 16-Bit Dual Serial-In/Current Out* ***NEW!***	16-TSSOP	15.41	14.38	13.36
AD5546BRUZ-ND	DAC 16-Bit Multiplying*	28-TSSOP	14.86	13.38	11.87
AD5546CRUZ-ND	DAC 16-Bit Multiplying* ***NEW!***	28-TSSOP	15.69	14.65	13.60
AD5547BRUZ-ND	DAC 16-Bit Multiplying*	38-TSSOP	15.39	13.86	12.29
AD5547CRUZ-ND	DAC 16-Bit Multiplying* ***NEW!***	38-TSSOP	15.84	14.79	13.73
AD5551BRZ-ND	DAC 14-Bit Serial-In*	8-SOIC	11.71	10.55	9.35
AD5553CRMZ-ND	DAC 14-Bit Serial-In/Current Out*	8-MSOP	9.78	7.83	6.61
AD5554BRSZ-ND	DAC 14-Bit Quad Serial-In/Current Out*	28-SSOP	20.30	18.95	17.59
AD5555CRUZ-ND	DAC 14-Bit Dual Serial-In*	16-TSSOP	10.70	9.63	8.54
AD5556CRUZ-ND	DAC 14-Bit Multiplying*	28-TSSOP	9.66	8.70	7.72
AD5557CRUZ-ND	DAC 14-Bit Multiplying*	38-TSSOP	15.02	14.02	13.02
AD5570ARSZ-ND	DAC 16-Bit Serial-In/Voltage Out*	16-SSOP	23.21	21.66	20.12
AD5582YRVZ-ND	DAC 12-Bit Quad Voltage Out*	48-TSSOP	15.36	14.34	13.32
AD5583YRVZ-ND	DAC 10-Bit Quad Voltage Out*	48-TSSOP	10.48	9.44	8.37
AD5601BKSZ-REEL7CT-ND	8-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	2.23	1.78	1.34
AD5601BKSZ-REEL7TR-ND	8-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	3417.60/3,000		
AD5611BKSZ-REEL7CT-ND	10-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	2.81	2.25	1.75
AD5611BKSZ-REEL7TR-ND	10-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	4725.00/3,000		
AD5620ARJZ-1500RL7CT-ND	12-Bit nanoDAC® Buffered Voltage Out*	SOT-23-8	4.10	3.28	2.55
AD5620ARJZ-1500RL7TR-ND	12-Bit nanoDAC® Buffered Voltage Out*	SOT-23-8	1183.00/500		
AD5620BRJZ-1500RL7CT-ND	12-Bit nanoDAC® Buffered Voltage Out*	SOT-23-8	4.70	3.77	2.93
AD5620BRJZ-1500RL7TR-ND	12-Bit nanoDAC® Buffered Voltage Out*	SOT-23-8	1358.50/500		
AD5620CRMZ-2-ND	12-Bit nanoDAC® Buffered Voltage Out*	8-MSOP	5.54	4.43	3.45
AD5621AKSZ-REEL7CT-ND	12-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	2.68	2.15	1.67
AD5621AKSZ-REEL7TR-ND	12-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	4498.20/3,000		
AD5621BKSZ-REEL7CT-ND	12-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	3.08	2.47	1.92
AD5621BKSZ-REEL7TR-ND	12-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	5178.60/3,000		
AD5622AKSZ-2REEL7CT-ND	12-Bit nanoDAC®, 2.7V~5.5V*	SC70-6	2.90	2.33	1.81
AD5622AKSZ-2REEL7TR-ND	12-Bit nanoDAC®, 2.7V~5.5V*	SC70-6	4876.20/3,000		
AD5622BKSZ-2REEL7CT-ND	12-Bit nanoDAC®, 2.7V~5.5V*	SC70-6	3.33	2.67	2.08
AD5622BKSZ-2REEL7TR-ND	12-Bit nanoDAC®, 2.7V~5.5V*	SC70-6	5594.40/3,000		
AD5623RBCPZ-3REEL7CT-ND	Dual 12-Bit nanoDAC®*	10-LFCSP	5.04	4.04	3.41
AD5623RBCPZ-3REEL7TR-ND	Dual 12-Bit nanoDAC®*	10-LFCSP	4725.00/1,500		
AD5623RBRMZ-3-ND	Dual 12-Bit nanoDAC®*	10-MSOP	5.16	4.13	3.49
AD5623RBRMZ-5-ND	Dual 12-Bit nanoDAC®*	10-MSOP	5.16	4.13	3.49
AD5624BCPZ-REEL7CT-ND	Quad 12-Bit nanoDAC®*	10-LFCSP	8.20	6.56	5.54
AD5624BRMZ-ND	Quad 12-Bit nanoDAC®*	10-MSOP	8.38	6.71	5.66
AD5624RBCPZ-3REEL7CT-ND	Quad 12-Bit nanoDAC®*	10-LFCSP	8.54	6.84	5.77
AD5624RBCPZ-3REEL7TR-ND	Quad 12-Bit nanoDAC®*	10-LFCSP	8006.25/1,500		
AD5624RBCPZ-5R2CT-ND	Quad 12-Bit nanoDAC®* ***NEW!***	10-LFCSP	12.18	10.97	9.73
AD5624RBCPZ-5R2TR-ND	Quad 12-Bit nanoDAC®* ***NEW!***	10-LFCSP	2330.06/250		
AD5624RBRMZ-3-ND	Quad 12-Bit nanoDAC®*	10-MSOP	9.16	7.33	6.19
AD5624RBRMZ-5-ND	Quad 12-Bit nanoDAC®*	10-MSOP	9.16	7.33	6.19
AD5625BCPZ-REEL7CT-ND	Quad 12-Bit nanoDAC®*	10-LFCSP	9.40	7.52	6.35
AD5625BCPZ-REEL7TR-ND	Quad 12-Bit nanoDAC®*	10-LFCSP	8812.50/1,500		
AD5625BRUZ-ND	Quad 12-Bit nanoDAC®*	14-TSSOP	9.62	7.70	6.50
AD5625RBRUZ-1-ND	Quad 12-Bit nanoDAC®*	14-TSSOP	8.86	7.98	7.08
AD5625RBRUZ-2-ND	Quad 12-Bit nanoDAC®*	14-TSSOP	8.86	7.98	7.08
AD5626BCPZ-REEL7CT-ND	Dual 12-Bit nanoDAC®*	8-LFCSP	3.62	2.90	2.26
AD5626BRMZ-REEL7CT-ND	12-Bit nanoDAC®*	8-MSOP	3.85	3.08	2.40
AD5627BRMZ-ND	Dual 12-Bit nanoDAC®*	10-MSOP	5.04	4.04	3.41
AD5627RBCPZ-REEL7CT-ND	Dual 12-Bit nanoDAC®*	10-LFCSP	6.03	4.83	3.76
AD5627RBCPZ-REEL7TR-ND	Dual 12-Bit nanoDAC®*	10-LFCSP	5025.00/1,500		
AD5627RBRMZ-1-ND	Dual 12-Bit nanoDAC®*	10-MSOP	6.34	5.08	4.28
AD5627RBRMZ-2-ND	Dual 12-Bit nanoDAC®*	10-MSOP	6.88	5.51	4.65
AD5628BRUZ-1-ND	Octal 12-Bit Voltage Out DAC* ***NEW!***	14-TSSOP	15.11	13.61	12.07
AD5628BRUZ-2-ND	Octal 12-Bit Voltage Out DAC*	16-TSSOP	15.11	13.61	12.07
AD5640BRJZ-1REEL7CT-ND	Single 14-Bit nanoDAC®*	SOT-23-8	5.76	4.61	3.89
AD5640BRJZ-1REEL7TR-ND	Single 14-Bit nanoDAC®*	SOT-23-8	10713.60/3,000		
AD5641AKSZ-500RL7CT-ND	Single 14-Bit nanoDAC®*	SC70-6	5.40	4.32	3.36
AD5641AKSZ-500RL7TR-ND	Single 14-Bit nanoDAC®*	SC70-6	1560.00/500		
AD5641BKSZ-REEL7CT-ND	14-Bit nanoDAC®, 2.7V~5.5V, SPI*	SC70-6	6.03	4.83	3.76
AD5643RBRMZ-3-ND	Dual 14-Bit nanoDAC®*	10-MSOP	8.51	7.67	6.80
AD5643RBRMZ-5-ND	Dual 14-Bit nanoDAC®*	10-MSOP	8.51	7.67	6.80
AD5644RBRMZ-3-ND	Quad 14-Bit nanoDAC®*	10-MSOP	14.23	12.81	11.36
AD5644RBRMZ-5-ND	Quad 14-Bit nanoDAC®*	10-MSOP	14.23	12.81	11.36
AD5645RBCPZ-REEL7CT-ND	Quad 14-Bit nanoDAC®*	10-LFCSP	9.90	8.91	7.91
AD5645RBCPZ-REEL7TR-ND	Quad 14-Bit nanoDAC®*	10-LFCSP	11003.85/1,500		
AD5645RBRUZ-ND	Quad 14-Bit nanoDAC®*	14-TSSOP	10.65	9.59	8.50
AD5647RBRMZ-ND	Dual 14-Bit nanoDAC®*	10-MSOP	5.84	4.68	3.95
AD5648BRUZ-1-ND	Octal 14-Bit Voltage Out DAC* ***NEW!***	14-TSSOP	16.32	15.24	14.15
AD5648BRUZ-2-ND	Octal 14-Bit Voltage Out DAC* ***NEW!***	16-TSSOP	16.32	15.24	14.15
AD5660ARJZ-1500RL7CT-ND	Single 16-Bit nanoDAC®*	SOT-23-8	6.66	5.33	4.50
AD5660ARJZ-1500RL7TR-ND	Single 16-Bit nanoDAC®*	SOT-23-8	2114.55/500		
AD5660ARJZ-2500RL7CT-ND	Single 16-Bit nanoDAC®*	SOT-23-8	6.66	5.33	4.50
AD5660ARJZ-2500RL7TR-ND	Single 16-Bit nanoDAC®*	SOT-23-8	2114.55/500		
AD5660CRMZ-3-ND	Single 16-Bit nanoDAC®*	8-MSOP	8.18	6.55	5.53
EVAL-AD5660DKZ-ND	Demo Board for AD5660*	—	100.19	—	—
AD5662ARMZ-1-ND	Single 16-Bit nanoDAC®*	8-MSOP	5.32	4.26	3.60
AD5662BRJZ-1REEL7CT-ND	Single 16-Bit nanoDAC®*	SOT-23-8	5.98	4.79	4.04
AD5662BRJZ-1REEL7TR-ND	Single 16-Bit nanoDAC®*	SOT-23-8	11122.80/3,000		
AD5662BRJZ-2REEL7CT-ND	Single 16-Bit nanoDAC®*	SOT-23-8	5.98	4.79	4.04
AD5662BRJZ-2REEL7TR-ND	Single 16-Bit nanoDAC®*	SOT-23-8	11122.80/3,000		
AD5663ARMZ-ND	Dual 16-Bit nanoDAC®*	10-MSOP	6.86	5.49	4.64
AD5663BCPZ-REEL7CT-ND	Dual 16-Bit nanoDAC®*	10-LFCSP	7.70	6.16	5.20
AD5663BRMZ-ND	Dual 16-Bit nanoDAC®*	10-MSOP	7.70	6.16	5.20
AD5663BRMZ-1-ND	Dual 16-Bit nanoDAC®*	10-MSOP	7.70	6.16	5.20
AD5663RBCPZ-3REEL7CT-ND	Dual 16-Bit nanoDAC®*	10-LFCSP	8.46	6.77	5.72
AD5663RBRMZ-3-ND	Dual 16-Bit nanoDAC®*	10-MSOP	8.66	6.93	5.85
AD5663RBRMZ-5-ND	Dual 16-Bit nanoDAC®*	10-MSOP	8.66	6.93	5.85
AD5664ARMZ-ND	Quad 16-Bit nanoDAC®*	10-MSOP	10.21	9.20	8.16
AD5664BCPZ-REEL7CT-ND	Quad 16-Bit nanoDAC®*	10-LFCSP	11.48	10.34	9.17
AD5664BCPZ-REEL7TR-ND	Quad 16-Bit nanoDAC®*	10-LFCSP	12763.73/1,500		
AD5664BRMZ-ND	Quad 16-Bit nanoDAC®*	10-MSOP	11.75	10.58	9.38
AD5664RBRMZ-3-ND	Quad 16-Bit nanoDAC®*	10-MSOP	13.76	12.39	10.99
AD5664RBRMZ-5-ND	Quad 16-Bit nanoDAC®*	10-MSOP	13.76	12.39	10.99

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5665BCPZ-REEL7CT-ND	Quad 16-Bit nanoDAC®*	10-LFCSP	13.16	11.85	10.51
AD5665BRUZ-ND	Quad 16-Bit nanoDAC®*	14-TSSOP	13.46	12.12	10.75
AD5665RBRUZ-1-ND	Quad 16-Bit nanoDAC®*	14-TSSOP	14.88	13.40	11.88
AD5665RBRUZ-2-ND	Quad 16-Bit nanoDAC®*	14-TSSOP	14.88	13.40	11.88
AD5666ARUZ-2-ND	Quad 16-Bit nanoDAC®*	14-TSSOP	12.79	11.52	10.22
AD5667BCPZ-REEL7CT-ND	Dual 16-Bit nanoDAC®*	10-LFCSP	8.00	6.40	5.40
AD5667RBCPZ-REEL7CT-ND	Dual 16-Bit nanoDAC®*	10-LFCSP	8.38	6.71	5.66
AD5667RBRMZ-1-ND	Dual 16-Bit nanoDAC®*	10-MSOP	10.55	9.50	8.42
AD5668ARUZ-3-ND	Octal 16-Bit Voltage Out DAC*	16-TSSOP	17.49	16.33	15.16
AD5668BRUZ-1-ND	Octal 16-Bit Voltage Out DAC* ***NEW!***	16-TSSOP	20.12	18.78	17.44
AD5668BRUZ-2-ND	Octal 16-Bit Voltage Out DAC* ***NEW!***	16-TSSOP	20.12	18.78	17.44
AD5668BRUZ-3-ND	Octal 16-Bit Voltage Out DAC* ***NEW!***	16-TSSOP	20.12	18.78	17.44
AD5678ARUZ-2-ND	Octal 4x12-Bit and 4x16-Bit DAC* ***NEW!***	16-TSSOP	16.88	15.75	14.63
AD5678BRUZ-1-ND	Octal 4x12-Bit and 4x16-Bit DAC*	14-TSSOP	19.41	18.12	16.83
AD5678BRUZ-2-ND	Octal 4x12-Bit and 4x16-Bit DAC*	16-TSSOP	19.41	18.12	16.83
AD5680BRJZ-2REEL7CT-ND	5V, 18-Bit nanoDAC®*	SOT-23-8	6.86	5.49	4.64
AD5680BRJZ-2REEL7TR-ND	5V, 18-Bit nanoDAC®*	SOT-23-8	12759.60/3,000		
AD5722AREZ-ND	DAC Dual, 12-Bit, Serial-In, Voltage Output*	24-TSSOP	7.42	5.94	5.01
AD5722RBREZ-ND	DAC Dual, 12-Bit, Serial-In, Voltage Output*	24-TSSOP	9.73	8.76	7.77
AD5724AREZ-ND	DAC Quad, 12-Bit, Serial-In, Voltage Output*	24-TSSOP	10.53	9.48	8.41
AD5724RBREZ-ND	DAC Quad, 12-Bit, Serial-In, Voltage Output* ***NEW!***	24-TSSOP	15.83	14.25	12.64
AD5725ARSZ-500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	11.83	10.65	9.45
AD5725ARSZ-500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	4437.50/500		
AD5725ARSZ-1500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	11.83	10.65	9.45
AD5725ARSZ-1500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	4437.50/500		
AD5725BRSZ-500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	14.03	12.63	11.20
AD5725BRSZ-500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	5262.50/500		
AD5726YRSZ-1500RL7CT-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/Bipolar, Voltage Out*	20-SSOP	17.24	16.09	14.94
AD5726YRSZ-1500RL7TR-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/Bipolar, Voltage Out*	20-SSOP	7181.25/500		
AD5726YRSZ-REELCT-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/Bipolar, Voltage Out*	16-SSOP	18.98	17.09	15.15
AD5726YRSZ-REELTR-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/Bipolar, Voltage Out*	16-SSOP	21099.98/1,500		
AD5732AREZ-ND	DAC Dual, 14-Bit, Serial-In, Voltage Out*	24-TSSOP	9.73	8.76	7.77
AD5732RBREZ-ND	DAC Dual, 14-Bit, Serial-In, Voltage Out*	24-TSSOP	13.26	11.94	10.59
AD5734RBREZ-ND	DAC Quad, 14-Bit, Serial-In, Voltage Out*	24-TSSOP	17.43	16.27	15.11
AD5744RCSUZ-ND	DAC Quad, 14-Bit, Serial-In, Bipolar Voltage Out*	32-TQFP	37.58	35.07	32.57
AD5752AREZ-ND	DAC Dual, 16-Bit, Serial-In, Voltage Out*	24-TSSOP	12.30	11.07	9.82
AD5752RBREZ-ND	DAC Dual, 16-Bit, Serial-In, Voltage Out*	24-TSSOP	15.83	14.25	12.64
AD5754BREZ-ND	DAC Quad, 16-Bit, Serial-In, Voltage Out*	24-TSSOP	18.32	17.10	15.88
AD5754RBREZ-ND	DAC Quad, 16-Bit, Serial-In, Voltage Out*	24-TSSOP	20.63	19.25	17.88
AD5762RCSUZ-ND	DAC 16-Bit Dual Serial-In, Bipolar Voltage Out*	32-TQFP	26.94	25.15	23.35
AD5763CSUZ-ND	DAC 16-Bit Dual Serial-In, Bipolar Voltage Out*	32-TQFP	18.23	17.01	15.80
AD5764ASUZ-ND	DAC 16-Bit Quad Serial-In, Bipolar Voltage Out*	32-TQFP	36.06	33.66	31.26
AD5764BSUZ-ND	DAC 16-Bit Quad Serial-In, Bipolar Voltage Out*	32-TQFP	41.87	39.08	36.29
AD5764CSUZ-ND	DAC 16-Bit Quad Serial-In, Bipolar Voltage Out*	32-TQFP	46.05	42.98	39.91
AD5764RBSUZ-ND	DAC 16-Bit Quad Serial-In, Bipolar Voltage Out*	32-TQFP	43.82	40.90	37.98
AD5765CSUZ-ND	DAC 16-Bit Quad Serial-In, Bipolar Voltage Out*	32-TQFP	30.17	28.16	26.15
AD5821ABCBZ-REEL7CT-ND	DAC I^{2}C, 120mA, Current Sinking 10-Bit*	9-WLCSP	1.88	1.50	1.13
AD5821ABCBZ-REEL7TR-ND	DAC I^{2}C, 120mA, Current Sinking 10-Bit*	9-WLCSP	2880.00/3,000		
AD5821BCBZ-REEL7CT-ND	DAC I^{2}C, 120mA, Current Sinking 10-Bit*	9-WLCSP	3.44	2.76	2.15
AD7111ABNZ-ND	DAC Logarithmic LC^{2}MOS*	16-Dip	12.25	11.03	9.78
AD7224KNZ-ND	DAC 8-Bit LC^{2}MOS*	18-Dip	10.26	8.21	6.93
AD7224KRZ-1-ND	DAC 8-Bit LC^{2}MOS*	20-SOIC	9.98	8.99	7.97
AD7224LNZ-ND	DAC 8-Bit LC^{2}MOS*	18-Dip	12.64	11.39	10.10
AD7225CRSZ-ND	DAC 8-Bit LC^{2}MOS Quad* ***NEW!***	24-SSOP	8.50	7.65	6.79
AD7225KNZ-ND	DAC 8-Bit LC^{2}MOS Quad*	24-Dip	21.63	20.19	18.75
AD7226KNZ-ND	DAC 8-Bit LC^{2}MOS Quad*	20-Dip	20.28	18.93	17.58
AD7226KRZ-ND	DAC 8-Bit LC^{2}MOS Quad*	20-SOIC	19.70	18.39	17.07
AD7228ABRZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-SOIC	23.70	22.12	20.54
AD7228ACRZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-SOIC	27.81	25.96	24.11
AD7228KNZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-Dip	45.27	42.26	39.24
AD7237JNZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-Dip	24.69	23.05	21.40
AD7243ANZ-ND	Serial DAC 12-Bit LC^{2}MOS*	16-Dip	13.29	11.97	10.62
AD7243ARZ-ND	Serial DAC 12-Bit LC^{2}MOS*	16-SOIC	12.91	11.63	10.31
AD7244JRZ-ND	DAC 14-Bit LC^{2}MOS Dual*	28-SOIC	36.09	33.69	31.28
AD7245AANZ-ND	DAC 12-Bit with Reference*	24-Dip	13.99	12.60	11.18
AD7245AARZ-ND	DAC 12-Bit with Reference*	24-SOIC	13.58	12.23	10.84
AD7247AANZ-ND	DAC 12-Bit Dual Voltage Out*	24-Dip	24.69	23.05	21.40
AD7247AARZ-ND	DAC 12-Bit Dual Voltage Out*	24-SOIC	23.97	22.38	20.78
AD7247ABRZ-ND	DAC 12-Bit Dual Voltage Out*	24-SOIC	28.14	26.27	24.39
AD7248AARZ-ND	DAC 12-Bit with Reference*	20-SOIC	14.94	13.46	11.94
AD7248JNZ-ND	DAC 12-Bit with Reference*	20-Dip	17.03	15.33	13.60
AD7249ANZ-ND	DAC 12-Bit Serial with Reference*	16-Dip	16.25	15.17	14.08
AD7249ARZ-ND	DAC 12-Bit Serial with Reference*	16-SOIC	15.77	14.72	13.67
AD7302BNZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-Dip	5.24	4.20	3.27
AD7302BRZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-SOIC	5.09	4.07	3.17
AD7302BR-REEL7CT-ND	DAC 8-Bit Dual 2.7V to 5.5V	20-SOIC	5.66	4.53	3.83
AD7302BRUZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-TSSOP	5.09	4.07	3.17
AD7303BNZ-ND	DAC 8-Bit Dual 2.7V*	8-Dip	5.46	4.37	3.69
AD7303BRZ-ND	DAC 8-Bit Dual 2.7V*	8-SOIC	5.30	4.24	3.58
AD7303BRMZ-ND	DAC 8-Bit Dual 2.7V*	8-MSOP	5.64	4.52	3.81
AD7304BRZ-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail*	16-SOIC	7.30	5.84	4.93
AD7305BRZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-SOIC	8.46	6.77	5.72
AD7305BRUZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-TSSOP	8.46	6.77	5.72
AD7390ARZ-ND	DAC 12-Bit, 3V Serial-In*	8-SOIC	9.86	7.89	6.66
AD7391ARZ-ND	DAC 10-Bit, 3V Serial-In*	8-SOIC	6.62	5.30	4.47
AD7392ARZ-ND	DAC 12-Bit, 3V Parallel*	20-SOIC	8.73	7.86	6.97
AD7396ARZ-ND	DAC 12-Bit, 3V Parallel*	24-SOIC	10.26	9.24	8.20
AD7398BRZ-ND	DAC 12-Bit Quad Serial-In*	16-SOIC	16.39	14.76	13.09
AD7398BRUZ-ND	DAC 12-Bit Quad Serial-In*	16-TSSOP	16.39	14.76	13.09
AD7399BRZ-ND	DAC 10-Bit Quad Serial-In*	16-SOIC	8.38	7.55	6.69
AD7399BRUZ-ND	DAC 10-Bit Quad Serial-In*	16-TSSOP	8.38	7.55	6.69
AD7524JNZ-ND	DAC 8-Bit Multiplying*	16-Dip	7.54	6.04	5.09
AD7524JRZ-ND	DAC 8-Bit Multiplying*	16-SOIC	8.00	6.40	5.40
AD7524KNZ-ND	DAC 8-Bit Multiplying*	16-Dip	8.28	6.63	5.59
AD7528JNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	9.36	8.43	7.48
AD7528JRZ-ND	DAC 8-Bit Dual Multiplying*	20-SOIC	10.36	9.33	8.28
AD7528KNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	9.66	8.70	7.72
AD7533JNZ-ND	DAC 10-Bit Multiplying*	16-Dip	7.38	5.91	4.99
AD7533KNZ-ND	DAC 10-Bit Multiplying*	16-Dip	8.00	6.40	5.40
AD7533KRZ-ND	DAC 10-Bit Multiplying*	16-SOIC	8.86	7.09	5.99
AD7533LNZ-ND	DAC 10-Bit Multiplying*	16-Dip	9.58	7.67	6.47

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ANALOG DEVICES Digi-Reel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7541AJNZ-ND	DAC 12-Bit Multiplying*	18-Dip	12.00	10.80	9.58
AD7541AKNZ-ND	DAC 12-Bit Multiplying*	18-Dip	13.33	12.00	10.64
AD7541AKRZ-ND	DAC 12-Bit Multiplying*	18-SOIC	9.33	8.40	7.45
AD7542JNZ-ND	DAC 12-Bit Multiplying*	16-Dip	21.33	19.91	18.49
AD7542KNZ-ND	DAC 12-Bit Multiplying*	16-Dip	23.55	21.98	20.41
AD7545AKNZ-ND	DAC 12-Bit Multiplying*	20-Dip	10.23	9.21	8.17
AD7545JNZ-ND	DAC 12-Bit Multiplying*	20-Dip	12.56	11.31	10.03
AD7547JNZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-Dip	20.52	19.16	17.79
AD7547JRZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-SOIC	19.92	18.60	17.27
AD7548JNZ-ND	DAC 12-Bit LC^{2}MOS*	20-Dip	16.39	14.76	13.09
AD7548KNZ-ND	DAC 12-Bit LC^{2}MOS*	20-Dip	17.90	16.71	15.51
AD7548KP-ND	DAC 12-Bit LC^{2}MOS	20-PLCC	19.79	18.47	17.15
AD7548KPZ-ND	DAC 12-Bit LC^{2}MOS* ***NEW!***	20-PLCC	20.78	19.39	18.01
AD7564BRZ-ND	DAC 12-Bit LC^{2}MOS Quad*	28-SOIC	18.50	17.27	16.03
AD7564BRSZ-ND	DAC 12-Bit LC^{2}MOS Quad*	28-SSOP	18.50	17.27	16.03
AD7568BPZ-ND	DAC 12-Bit LC^{2}MOS Octal*	44-PLCC	40.68	37.97	35.26
AD7568BSZ-ND	DAC 12-Bit LC^{2}MOS Octal*	44-PQFP	40.68	37.97	35.26
AD7628KNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	5.49	4.40	3.42
AD7801BRUZ-ND	DAC 8-Bit, 2.7V*	20-TSSOP	4.59	3.68	2.86
AD7801BRZ-ND	DAC 8-Bit, 2.7V*	20-SOIC	4.59	3.68	2.86
AD7808BRZ-ND	DAC 10-Bit, 3.3V Octal*	24-SOIC	15.92	14.86	13.80
AD7809BSTZ-ND	DAC 10-Bit Octal*	44-TQFP	18.42	17.20	15.97
AD7834ARZ-ND	DAC 14-Bit Quad*	28-SOIC	36.32	33.90	31.48
AD7834BRZ-ND	DAC 14-Bit Quad*	28-SOIC	45.92	42.86	39.80
AD7835ASZ-ND	DAC 14-Bit Quad*	44-MQFP	38.21	35.66	33.12
AD7837ANZ-ND	DAC 12-Bit Multiplying Dual*	24-Dip	22.44	20.95	19.45
AD7837ARZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	21.80	20.35	18.89
AD7837BRZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	25.56	23.86	22.16
AD7839ASZ-ND	DAC 13-Bit Octal Voltage Out*	44-MQFP	42.72	39.88	37.03
AD7840ARSZ-ND	DAC 14-Bit Low Power 5V*	24-SSOP	19.32	18.04	16.75
AD7840JNZ-ND	DAC 14-Bit LC^{2}MOS Voltage Out*	24-Dip	16.79	15.67	14.55
AD7840JP-ND	DAC 14-Bit LC^{2}MOS Voltage Out	28-PLCC	21.20	19.79	18.37
AD7841BSZ-ND	DAC 14-Bit Octal Voltage Out*	44-MQFP	52.50	49.00	45.50
AD7845JNZ-ND	DAC 12-Bit Multiplying*	24-Dip	11.18	10.07	8.93
AD7845JRZ-ND	DAC 12-Bit Multiplying*	24-SOIC	10.86	9.78	8.68
AD7846JPZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-PLCC	38.21	35.66	33.12
AD7846KNZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-Dip	45.20	42.19	39.17
AD7846KPZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-PLCC	43.88	40.95	38.03
AD7847ANZ-ND	DAC 12-Bit Multiplying Dual*	24-Dip	23.34	21.79	20.23
AD7849BRZ-ND	DAC 14/16-Bit Serial-In*	20-SOIC	17.18	16.03	14.89
AD7943BNZ-ND	DAC 12-Bit Multiplying*	16-Dip	8.44	6.76	5.70
AD7945BRZ-ND	DAC 12-Bit Multiplying*	20-SOIC	8.20	6.56	5.54
AD7945BRSZ-ND	DAC 12-Bit Multiplying*	20-SSOP	8.20	6.56	5.54
AD8300ARZ-ND	DAC 12-Bit 3V Serial-In*	8-SOIC	9.68	8.72	7.73
AD8522ARZ-ND	DAC 12-Bit Dual 5V*	14-SOIC	16.06	14.46	12.83
AD8582ARZ-ND	DAC 12-Bit Dual 5V*	24-SOIC	19.11	17.84	16.57
AD8801ARZ-ND	DAC 8-Bit Octal with Shutdown*	16-SOIC	7.00	5.60	4.73
AD8803ARZ-ND	DAC 8-Bit Octal with Shutdown*	16-SOIC	7.00	5.60	4.73
AD8842ARZ-ND	DAC 8-Bit Octal Multiplying*	24-SOIC	15.34	13.82	12.25
AD9114BCPZ-ND	DAC Dual, 8-Bit, Low Power*	40-LFCSP	10.15	9.14	8.10
AD9115BCPZ-ND	DAC Dual, 10-Bit, Low Power*	40-LFCSP	11.76	10.59	9.39
AD9117-EBZ-ND	Evaluation Board for AD9117*	—	322.50	—	—
AD9117BCPZ-ND	DAC Dual, 14-Bit, Low Power*	40-LFCSP	16.21	14.60	12.95
AD9704BCPZ-ND	DAC 8-Bit, 175MSPS*	32-LFCSP	6.10	4.88	4.12
AD9705BCPZ-ND	DAC 10-Bit, 175MSPS*	32-LFCSP	8.70	6.96	5.88
AD9706BCPZ-ND	DAC 12-Bit, 175MSPS*	32-LFCSP	10.26	9.24	8.20
AD9707BCPZ-ND	DAC 14-Bit, 175MSPS*	32-LFCSP	12.68	11.42	10.13
AD9708ARZ-ND	DAC 8-Bit, 100MSPS*	28-SOIC	6.52	5.22	4.41
AD9708ARUZ-ND	DAC 8-Bit, 100MSPS*	28-TSSOP	6.52	5.22	4.41
AD9709ASTZ-ND	DAC 8-Bit, 125MSPS*	48-LQFP	9.30	7.44	6.28
AD9714BCPZ-ND	DAC Dual, 8-Bit, Low Power*	40-LFCSP	10.15	9.14	8.10
AD9715BCPZ-ND	DAC Dual, 10-Bit, Low Power*	40-LFCSP	11.76	10.59	9.39
AD9716BCPZ-ND	DAC Dual, 12-Bit, Low Power* ***NEW!***	40-LFCSP	14.93	13.44	11.92
AD9717-EBZ-ND	Evaluation Board for AD9717*	—	322.50	—	—
AD9717BCPZ-ND	DAC Dual, 14-Bit, Low Power*	40-LFCSP	16.21	14.60	12.95
AD9726BSVZ-ND	DAC 16-Bit, 400MSPS*	80-TQFP	54.30	50.68	47.06
AD9739BBCZ-ND	DAC 14-Bit, 2.5GSPS* ***NEW!***	160-BGA	67.08	62.61	58.14
AD9789BBCZ-ND	DAC 14-Bit, 2.4GSPS* ***NEW!***	164-BGA	81.53	76.09	70.66
AD9740ACPZ-ND	DAC 10-Bit, 210MSPS*	32-LFCSP	8.70	6.96	5.88
AD9740ARUZ-ND	DAC 10-Bit, 210MSPS*	28-TSSOP	8.70	6.96	5.88
AD9740ARZ-ND	DAC 10-Bit, 210MSPS*	28-SOIC	8.70	6.96	5.88
AD9742ARUZ-ND	DAC 12-Bit, 210MSPS*	28-TSSOP	10.26	9.24	8.20
AD9744ACPZ-ND	DAC 14-Bit, 210MSPS*	32-LFCSP	12.68	11.42	10.13
AD9744ARUZ-ND	DAC 14-Bit, 210MSPS*	28-TSSOP	12.68	11.42	10.13
AD9744ARZ-ND	DAC 14-Bit, 210MSPS*	28-SOIC	12.68	11.42	10.13
AD9745BCPZ-ND	DAC 12-Bit, 250MSPS*	72-LFCSP	15.74	14.69	13.64
AD9747BCPZ-ND	DAC 16-Bit, 250MSPS*	72-LFCSP	24.69	23.05	21.40
AD9748ACPZ-ND	DAC 8-Bit, 210MSPS*	32-LFCSP	6.10	4.88	4.12
AD9750ARZ-ND	DAC 10-Bit, 125MSPS*	28-SOIC	9.22	7.38	6.23
AD9751ASTZ-ND	DAC 10-Bit, 300MSPS*	48-LQFP	27.74	25.89	24.04
AD9752ARZ-ND	DAC 12-Bit, 125MSPS*	28-SOIC	10.35	9.32	8.26
AD9752ARUZ-ND	DAC 12-Bit, 125MSPS High Performance*	28-TSSOP	10.35	9.32	8.26
AD9754ARZ-ND	DAC 14-Bit, 125MSPS High Performance*	28-SOIC	12.88	11.60	10.29
AD9754ARUZ-ND	DAC 14-Bit, 125MSPS*	28-TSSOP	12.88	11.60	10.29
AD9755ASTZ-ND	DAC 14-Bit, 300MSPS*	48-LQFP	55.14	51.47	47.79
AD9755-EB-ND	Evaluation Board for AD9755	—	303.60	—	—
AD9760ARUZ-ND	DAC 10-Bit, 125MSPS*	28-TSSOP	8.53	7.68	6.81
AD9761ARSZ-ND	DAC 10-Bit Dual 40MSPS*	28-SSOP	15.01	13.52	11.99
AD9762ARZ-ND	DAC 12-Bit, 125MSPS*	28-SOIC	10.53	9.48	8.41
AD9762ARUZ-ND	DAC 12-Bit, 125MSPS*	28-TSSOP	10.53	9.48	8.41
AD9763ASTZ-ND	DAC 10-Bit, Dual 125MSPS*	48-LQFP	10.35	9.32	8.26
AD9764ARZ-ND	DAC 14-Bit, 125MSPS*	28-SOIC	13.54	12.20	10.82
AD9764ARUZ-ND	DAC 14-Bit, 125MSPS*	28-TSSOP	13.54	12.20	10.82
AD9765ASTZ-ND	DAC 12-Bit, Dual 125MSPS*	48-LQFP	16.32	15.24	14.15
AD9767ASTZ-ND	DAC 14-Bit, Dual 125MSPS*	48-LQFP	18.65	17.41	16.16
AD9772AASTZ-ND	DAC 14-Bit, 160MSPS*	48-LQFP	23.24	21.69	20.14
AD9775BSVZ-ND	DAC 14-Bit, Dual 160MSPS*	80-TQFP	48.03	44.83	41.63
AD9776ABSVZ-ND	DAC 12-Bit, Dual 1GSPS*	100-TQFP	30.99	28.93	26.86
AD9777BSVZ-ND	DAC 16-Bit, Dual 160MSPS*	80-TQFP	52.83	49.31	45.79
AD9778ABSVZ-ND	DAC 14-Bit, Dual 1GSPS*	100-TQFP	38.76	36.18	33.60
AD9779ABSVZ-ND	DAC 16-Bit, Dual 1GSPS*	100-TQFP	44.99	41.99	38.99
AD9785BSVZ-ND	DAC 12-Bit, Dual 800MSPS*	100-TQFP	32.58	30.41	28.24
AD9785-EBZ-ND	Evaluation Board for AD9785*	—	326.38	—	—
AD9788BSVZ-ND	DAC 16-Bit, Dual 800MSPS*	100-TQFP	46.55	43.45	40.34
ADDAC80NZ-CBI-V-ND	DAC 12-Bit, Binary Mono*	24-Dip	20.39	19.03	17.67
ADV7120KSTZ30-ND	DAC Video 3-Channel 30MHz*	48-TQFP	9.45	8.51	7.55

ANALOG DEVICES Digi-Reel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADV7123JSTZ240-ND	DAC Video Triple High Speed 240MHz*	48-LQFP	12.45	11.62	10.79
ADV7123JSTZ330-ND	DAC Video Triple High Speed 330MHz*	48-LQFP	21.15	19.74	18.33
ADV7123KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	8.21	7.40	6.56
ADV7123KSTZ140-ND	DAC Video Triple High Speed*	48-LQFP	10.38	9.35	8.29
ADV7125JSTZ240-ND	DAC Video 3-Channel 240MHz*	48-LQFP	11.06	9.96	8.84
ADV7125KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	7.88	6.31	5.32
ADV7125KSTZ140-ND	DAC Video 3-Channel 140MHz*	48-LQFP	8.31	7.49	6.64
ADV7127JRUZ240-ND	DAC Video 240MHz, 3.3/5V*	24-TSSOP	16.01	14.94	13.88
ADV7127KRUZ140-ND	DAC Video 140MHz, 3.3/5V*	24-TSSOP	12.96	11.67	10.35
ADV7171KSZ-ND	DAC Video Encoder PAL/NTSC*	44-MQFP	10.63	9.57	8.49
ADV7171KSUZ-ND	DAC Video Encoder PAL/NTSC*	44-TQFP	9.10	8.19	7.27
ADV7173KSTZ-ND	DAC Video NTSC 6-Channel*	48-LQFP	9.90	8.91	7.91
ADV7179BCPZ-ND	DAC Video NTSC 3-Channel*	40-LFCSP	11.55	10.40	9.22
ADV7179KCPZ-ND	DAC Video NTSC 3-Channel*	40-LFCSP	9.63	8.67	7.69
ADV7179KCPZ-REELCT-ND	DAC Video NTSC 3-Channel*	40-LFCSP	9.63	8.67	7.69
ADV7393BCPZ-ND	DAC 10-Bit SD/HD Video Encoder*	40-LFCSP	9.25	8.33	7.39
DAC08CPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.25	1.80	1.40
DAC08CSZ-ND	DAC 8-Bit Multiply High Speed*	16-SOIC	2.25	1.80	1.40
DAC08EPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.81	2.25	1.75
DAC312HPZ-ND	DAC 12-Bit Multiply High Speed*	20-Dip	8.72	6.98	5.89
DAC312HSZ-ND	DAC 12-Bit Multiply High Speed*	20-SOIC	8.72	6.98	5.89
DAC8043AFPZ-ND	DAC 12-Bit Multiply Serial-In*	8-Dip	8.78	7.03	5.93
DAC8043AFSZ-ND	DAC 12-Bit Multiply Serial-In*	8-SOIC	8.78	7.03	5.93
DAC8043FPZ-ND	DAC 12-Bit Multiply CMOS*	8-Dip	12.56	11.31	10.03
DAC8143FSZ-ND	DAC 12-Bit Daisy-Chain*	16-SOIC	10.53	9.48	8.41
DAC8222FSZ-ND	DAC 12-Bit Dual Buffered*	24-SOIC	31.76	29.64	27.53
DAC8412FPCZ-ND	DAC 12-Bit Quad Readback*	28-PLCC	38.30	35.75	33.19
DAC8420FPZ-ND	DAC 12-Bit Quad Serial-Out*	16-Dip	39.56	36.92	34.29
DAC8420FSZ-ND	DAC 12-Bit Quad Serial-Out*	16-SOIC	39.56	36.92	34.29
DAC8512FPZ-ND	DAC 12-Bit, 5V Complete*	8-Dip	9.80	7.84	6.62
DAC8512FSZ-ND	DAC 12-Bit, 5V Complete*	8-SOIC	9.70	7.76	6.55
DAC8562FPZ-ND	DAC 12-Bit, 5V Parallel*	20-Dip	15.89	14.31	12.69
DAC8562FSZ-ND	DAC 12-Bit, 5V Parallel*	20-SOIC	15.89	14.31	12.69
DAC8800FPZ-ND	DAC 8-Bit Octal CMOS*	20-Dip	16.93	15.24	13.52
DAC8841FSZ-ND	DAC 8-Bit Octal 2-Quad*	24-SOIC	18.39	17.17	15.94

RMS-to-DC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD536AJDZ-ND	True RMS/DC Converter*	14-CDip	18.72	17.48	16.23
AD536AJHZ-ND	True RMS/DC Converter*	TO-100-10	12.91	11.63	10.31
AD536AJQ-ND	True RMS/DC Converter	14-CDip	13.31	11.99	10.63
AD536AKDZ-ND	True RMS/DC Converter*	14-CDip	36.99	34.53	32.06
AD536ASD-ND	True RMS/DC Converter	14-CDip	92.01	85.88	79.75
AD536ASH-ND	True RMS/DC Converter	TO-100-10	44.97	41.98	38.98
AD636JDZ-ND	True RMS/DC Converter Mono*	14-CDip	16.98	15.85	14.72
AD636JHZ-ND	True RMS/DC Converter Mono*	TO-100-10	11.01	9.92	8.80
AD637ARZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	29.18	27.23	25.29
AD637BRZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	34.59	32.29	29.98
AD637JDZ-ND	True RMS/DC Converter Wide Bandwidth*	14-CDip	40.46	37.76	35.07
AD637JQ-ND	True RMS/DC Converter Wide Bandwidth	14-CDip	18.14	16.93	15.72
AD637JRZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	16.20	15.12	14.04
AD736ARZ-ND	True RMS/DC Converter Low Power*	8-SOIC	8.26	6.61	5.58
AD736AQ-ND	True RMS/DC Converter Low Power	8-Dip	13.78	12.41	11.00
AD736JNZ-ND	True RMS/DC Converter Low Power*	8-Dip	8.26	6.61	5.58
AD736JRZ-ND	True RMS/DC Converter Low Power*	8-SOIC	8.26	6.61	5.58
AD737JNZ-ND	True RMS/DC Converter Low Power*	8-Dip	6.56	5.25	4.43
AD737JRZ-ND	True RMS/DC Converter Low Power*	8-SOIC	6.56	5.25	4.43

Voltage-to-Frequency

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD537JH-ND	Voltage/Frequency Converter	TO-100-10	15.21	14.20	13.19
AD650JNZ-ND	Voltage Freq./Freq. Voltage Converter*	14-Dip	15.98	14.39	12.76
AD650KNZ-ND	Voltage Freq./Freq. Voltage Converter*	14-Dip	17.97	16.78	15.58
AD652BQ-ND	Voltage/Frequency Converter Sync.	16-Dip	24.33	22.71	21.09
AD652JPZ-ND	Voltage/Frequency Converter Sync.*	20-PLCC	15.66	14.62	13.58
AD654JNZ-ND	Voltage/Frequency Converter Mono*	8-Dip	8.00	6.40	5.40
AD654JRZ-ND	Voltage/Frequency Converter Mono*	8-SOIC	7.52	6.02	5.08
AD7740KRMZ-ND	Voltage/Frequency Converter Sync. 3V/5V*	8-µSOIC	2.33	1.86	1.40
AD7740YRMZ-ND	Voltage/Frequency Converter Sync. 3V/5V*	8-MSOP	2.59	2.07	1.61
AD7741BNZ-ND	Voltage/Frequency Converter Sync.*	8-Dip	4.30	3.44	2.68
AD7741BRZ-ND	Voltage/Frequency Converter Sync.*	8-SOIC	4.16	3.33	2.59

ANALOG DEVICES Digi-Reel® DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5160BRJZ5-RL7CT-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5160BRJZ5-RL7TR-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5160BRJZ10-RL7CT-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5160BRJZ10-RL7TR-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5160BRJZ50-RL7CT-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5160BRJZ50-RL7TR-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5160BRJZ100-RL7CT-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5160BRJZ100-RL7TR-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5161BRMZ5-ND	Pot. Digital 5K, 256 Position*	10-MSOP	1.63	1.30	.98
AD5161BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	1.63	1.30	.98
AD5161BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	1.63	1.30	.98
AD5161BRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	1.63	1.30	.98
AD5162BRMZ2.5-ND	Pot. Dual 2.5K, 256 Position*	10-MSOP	2.25	1.80	1.40
AD5162BRMZ10-ND	Pot. Dual 10K, 256 Position*	10-MSOP	2.25	1.80	1.40
AD5162BRMZ100-ND	Pot. Dual 100K, 256 Position*	10-MSOP	2.25	1.80	1.40
AD5165BUJZ100-R2CT-ND	Pot. Digital 100K, 256 Position*	TSOT-23-8	2.33	1.86	1.40
AD5165BUJZ100-R2TR-ND	Pot. Digital 100K, 256 Position*	TSOT-23-8	325.50/250		
AD5170BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	2.25	1.80	1.40
AD5172BRMZ2.5-ND	Pot. Dual 2.5K, 256 Position*	10-MSOP	2.97	2.38	1.85
AD5172BRM50-ND	Pot. Dual 50K, 256 Position	10-MSOP	3.42	2.74	2.13
AD5200BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	2.23	1.78	1.34
AD5203ARUZ100-ND	Pot. Digital 100K, Quad 64 Position*	24-TSSOP	3.31	2.65	2.06
AD5204BRZ10-ND	Pot. Digital 10K, Quad 256 Position*	24-SOIC	3.42	2.74	2.13
AD5204BRUZ50-ND	Pot. Digital 50K, Quad 256 Position*	24-TSSOP	3.42	2.74	2.13
AD5206BN10-ND	Pot. Digital 6-Channel 256 Position	24-Dip	4.37	3.50	2.72
AD5206BRUZ10-ND	Pot. Digital 6-Channel 256 Position*	24-TSSOP	4.37	3.50	2.72
AD5207BRUZ100-ND	Pot. Digital Dual 256 Position*	14-TSSOP	2.39	1.91	1.49
AD5220BNZ10-ND	Pot. Digital 10K, 128 Position*	8-Dip	2.33	1.86	1.40
AD5220BRZ10-ND	Pot. Digital 10K, 128 Position*	8-SOIC	2.25	1.80	1.35
AD5227BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.08	.90	.72
AD5227BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1404.00/3,000		
AD5227BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.08	.90	.72
AD5227BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1404.00/3,000		

* RoHS Compliant

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(Continued)

ANALOG DEVICES Digi-Reel® (Cont.) DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5228BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.02	.85	.68
AD5228BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1326.00/3,000		
AD5228BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.02	.85	.68
AD5228BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1326.00/3,000		
AD5231BRUZ10-ND	Pot. Digital 10K, 1024 Position*	16-TSSOP	4.43	3.55	2.76
AD5231BRUZ50-ND	Pot. Digital 50K, 1024 Position*	16-TSSOP	4.43	3.55	2.76
AD5231BRUZ100-ND	Pot. Digital 100K, 1024 Position*	16-TSSOP	4.43	3.55	2.76
AD5232BRUZ10-ND	Pot. Digital Dual 256 Position*	16-TSSOP	5.40	4.32	3.65
AD5233BRUZ50-ND	Pot. Quad 50K, 64 Position*	24-TSSOP	5.00	4.00	3.38
AD5235BRUZ25-ND	Pot. Dual 25K, 1024 Position*	16-TSSOP	7.04	5.64	4.76
AD5235BRUZ250-ND	Pot. Dual 250K, 1024 Position*	16-TSSOP	7.04	5.64	4.76
AD5241BRUZ10-ND	Pot. Digital I^{2}C, 256 Position*	14-TSSOP	2.33	1.86	1.40
AD5241BRZ1M-ND	Pot. Digital I^{2}C, 256 Position*	14-SOIC	2.33	1.86	1.40
AD5241BRZ10-ND	Pot. Digital I^{2}C, 256 Position*	14-SOIC	2.33	1.86	1.40
AD5242BRU100RL7CT-ND	Pot. Digital Dual 100K, 256 Position	16-TSSOP	3.31	2.65	2.06
AD5242BRUZ1M-ND	Pot. Digital Dual 256 Position*	16-TSSOP	2.86	2.29	1.78
AD5242BRUZ10-ND	Pot. Digital Dual 10K, 256 Position*	16-TSSOP	2.86	2.29	1.78
AD5242BRUZ100-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	2.86	2.29	1.78
AD5242BRUZ100-RL7CT-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	2.86	2.29	1.78
AD5242BRUZ100-RL7TR-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	1619.25/1,000		
AD5242BRZ1M-ND	Pot. Digital Dual 256 Position*	16-SOIC	2.86	2.29	1.78
AD5242BRZ10-ND	Pot. Digital Dual 10K, 256 Position*	16-SOIC	2.86	2.29	1.78
AD5242BRZ100-ND	Pot. Digital Dual 100K, 256 Position*	16-SOIC	2.86	2.29	1.78
AD5243BRMZ2.5-ND	Pot. Digital Dual 2.5K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5243BRMZ10-ND	Pot. Digital Dual 10K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5243BRMZ50-ND	Pot. Digital Dual 50K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5243BRMZ100-ND	Pot. Digital Dual 100K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5245BRJZ5-RL7CT-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5245BRJZ5-RL7TR-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5245BRJZ10-R2CT-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	2.33	1.86	1.40
AD5245BRJZ10-R2TR-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	325.50/250		
AD5245BRJZ50-RL7CT-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5245BRJZ50-RL7TR-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5245BRJZ100-RL7CT-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	1.60	1.28	.96
AD5245BRJZ100-RL7TR-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	2457.60/3,000		
AD5246BKSZ5-RL7CT-ND	Pot. Digital 5K, 128 Position*	SC70-6	1.35	1.13	.90
AD5246BKSZ5-RL7TR-ND	Pot. Digital 5K, 128 Position*	SC70-6	1755.00/3,000		
AD5246BKSZ10-RL7CT-ND	Pot. Digital 10K, 128 Position*	SC70-6	1.35	1.13	.90
AD5246BKSZ10-RL7TR-ND	Pot. Digital 10K, 128 Position*	SC70-6	1755.00/3,000		
AD5246BKSZ50-RL7CT-ND	Pot. Digital 50K, 128 Position*	SC70-6	1.35	1.13	.90
AD5246BKSZ50-RL7TR-ND	Pot. Digital 50K, 128 Position*	SC70-6	1755.00/3,000		
AD5246BKSZ100RLCT-ND	Pot. Digital 100K, 128 Position*	SC70-6	1.35	1.13	.90
AD5246BKSZ100RLTR-ND	Pot. Digital 100K, 128 Position*	SC70-6	1755.00/3,000		
AD5247BKSZ10-RL7TR-ND	Pot. Digital 10K, 128 Position*	SC70-6	1755.00/3,000		
AD5247BKSZ50-RL7CT-ND	Pot. Digital 50K, 128 Position*	SC70-6	1.35	1.13	.90
AD5247BKSZ50-RL7TR-ND	Pot. Digital 50K, 128 Position*	SC70-6	1755.00/3,000		
AD5248BRMZ2.5-ND	Pot. Digital Dual 2.5K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5248BRMZ10-ND	Pot. Digital Dual 10K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5248BRMZ50-ND	Pot. Digital Dual 50K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5248BRMZ100-ND	Pot. Digital Dual 100K I^{2}C*	10-MSOP	2.25	1.80	1.40
AD5252BRUZ1-ND	Pot. Digital Dual 1K, 256 Position*	14-TSSOP	3.62	2.90	2.26
AD5252BRUZ10-ND	Pot. Digital Dual 10K, 256 Position*	14-TSSOP	3.62	2.90	2.26
AD5252BRUZ100-ND	Pot. Digital Dual 100K, 256 Position*	14-TSSOP	3.62	2.90	2.26
AD5254BRUZ1-ND	Pot. Digital Quad 1K, 256 Position*	20-TSSOP	5.16	4.13	3.49
AD5254BRUZ10-ND	Pot. Digital Quad 10K, 256 Position*	20-TSSOP	5.16	4.13	3.49
AD5254BRUZ10-RL7CT-ND	Pot. Digital Quad 10K, 256 Position* ***NEW!***	20-TSSOP	5.16	4.13	3.49
AD5254BRUZ10-RL7TR-ND	Pot. Digital Quad 10K, 256 Position* ***NEW!***	20-TSSOP	3225.00/1,000		
AD5254BRUZ100-ND	Pot. Digital Quad 100K, 256 Position*	20-TSSOP	5.16	4.13	3.49
AD5258BRMZ1-ND	Pot. Digital 1K, 64 Position*	10-MSOP	1.48	1.18	.89
AD5258BRMZ10-ND	Pot. Digital 10K, 64 Position*	10-MSOP	1.48	1.18	.89
AD5258BRMZ50-ND	Pot. Digital 50K, 64 Position*	10-MSOP	1.48	1.18	.89
AD5258BRMZ100-ND	Pot. Digital 100K, 64 Position*	10-MSOP	1.48	1.18	.89
AD5259BRMZ5-ND	Pot. Digital 5K, 256 Position*	10-MSOP	2.25	1.80	1.35
AD5259BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	2.25	1.80	1.35
AD5259BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	2.25	1.80	1.35
AD5259BRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	2.25	1.80	1.35
AD5260BRUZ20-ND	Pot. Digital 20K, 256 Position*	14-TSSOP	4.05	3.24	2.52
AD5260BRUZ50-ND	Pot. Digital 50K, 256 Position*	14-TSSOP	4.05	3.24	2.52
AD5260BRUZ200-ND	Pot. Digital 200K, 256 Position*	14-TSSOP	4.05	3.24	2.52
AD5262BRUZ20-ND	Pot. Dual 20K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5262BRUZ50-ND	Pot. Dual 50K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5262BRUZ200-ND	Pot. Dual 200K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5263BRUZ20-ND	Pot. Quad 20K, 256 Position*	24-TSSOP	5.16	4.13	3.49
AD5263BRUZ50-ND	Pot. Quad 50K, 256 Position*	24-TSSOP	5.16	4.13	3.49
AD5263BRUZ200-ND	Pot. Quad 200K, 256 Position*	24-TSSOP	5.16	4.13	3.49
AD5270BRMZ-20-ND	Digital Pot. 1024 Position* ***NEW!***	10-MSOP	3.80	3.05	2.37
AD5271BRMZ-20-ND	Digital Pot. 256 Position* ***NEW!***	10-MSOP	2.27	1.82	1.42
AD5272BRMZ-20-ND	Digital Pot. 1024 Position* ***NEW!***	10-MSOP	3.80	3.05	2.37
AD5274BRMZ-20-ND	Digital Pot. 256 Position* ***NEW!***	10-MSOP	2.27	1.82	1.42
AD5280BRUZ20-ND	Pot. Digital 20K, 256 Position*	14-TSSOP	4.05	3.24	2.52
AD5280BRUZ50-ND	Pot. Digital 50K, 256 Position*	14-TSSOP	4.05	3.24	2.52
AD5282BRUZ20-ND	Dual Pot. 20K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5282BRUZ50-ND	Dual Pot. 50K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5282BRUZ200-ND	Dual Pot. 200K, 256 Position*	16-TSSOP	4.43	3.55	2.76
AD5290YRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	4.43	3.55	2.76
AD5290YRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	4.43	3.55	2.76
AD5290YRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	4.43	3.55	2.76
AD5291BRUZ-20-ND	Pot. Digital 20K, 256 Position* ***NEW!***	14-TSSOP	5.47	4.38	3.41
AD5292BRUZ-20-ND	Pot. Digital 20K, 1024 Position* ***NEW!***	14-TSSOP	5.56	4.45	3.76
AD5292BRUZ-50-ND	Pot. Digital 50K, 1024 Position* ***NEW!***	14-TSSOP	5.56	4.45	3.76
AD5292BRUZ-100-ND	Pot. Digital 100K, 1024 Position* ***NEW!***	14-TSSOP	5.56	4.45	3.76
AD5293BRUZ-20-ND	Pot. Digital 20K, 1024 Position* ***NEW!***	14-TSSOP	5.42	4.34	3.66
AD5293BRUZ-50-ND	Pot. Digital 50K, 1024 Position* ***NEW!***	14-TSSOP	5.42	4.34	3.66
AD5293BRUZ-100-ND	Pot. Digital 100K, 1024 Position* ***NEW!***	14-TSSOP	5.42	4.34	3.66
AD7376ARUZ10-R7CT-ND	Pot. Digital 10K, 128 Position*	14-TSSOP	8.58	7.87	7.15
AD7376ARUZ10-R7TR-ND	Pot. Digital 10K, 128 Position*	14-TSSOP	3575.00/1,000		
AD7376ARUZ50-ND	Pot. Digital 50K, 128 Position*	14-TSSOP	6.19	4.95	3.85
AD7376ARWZ10-ND	Pot. Digital 10K, 128 Position*	16-SOIC	6.19	4.95	3.85
AD7376ARWZ50-ND	Pot. Digital 50K, 128 Position*	16-SOIC	6.19	4.95	3.85
AD7376ARWZ100-ND	Pot. Digital 100K, 128 Position*	16-SOIC	6.19	4.95	3.85
AD8400ARZ50-ND	Pot. Digital 8-Bit, 50K, 1-Channel*	8-SOIC	2.57	2.06	1.60
AD8400ARZ1-ND	Pot. Digital 8-Bit, 1K, 1-Channel*	8-SOIC	2.57	2.06	1.60
AD8400ARZ10-ND	Pot. Digital 8-Bit, 10K, 1-Channel*	8-SOIC	2.57	2.06	1.60
AD8400ARZ100-ND	Pot. Digital 8-Bit, 100K, 1-Channel*	8-SOIC	2.57	2.06	1.60
AD8402ARUZ1-ND	Pot. Digital 8-Bit, 1K, 2-Channel*	14-TSSOP	3.85	3.08	2.40
AD8402ARUZ10-ND	Pot. Digital 8-Bit, 10K, 2-Channel*	14-TSSOP	3.85	3.08	2.40

ANALOG DEVICES Digi-Reel® (Cont.) DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD8402ARZ1-ND	Pot. Digital 8-Bit, 1K, 2-Channel*	14-SOIC	3.85	3.08	2.40
AD8402ARZ10-ND	Pot. Digital 8-Bit, 10K, 2-Channel*	14-SOIC	3.85	3.08	2.40
AD8402ARZ50-ND	Pot. Digital 8-Bit, 50K, 2-Channel*	14-SOIC	3.85	3.08	2.40
AD8402ARZ100-ND	Pot. Digital 8-Bit, 100K, 2-Channel*	14-SOIC	3.85	3.08	2.40
AD8403ARUZ1-ND	Pot. Digital 8-Bit, 1K, 4-Channel*	24-TSSOP	5.72	4.58	3.87
AD8403ARUZ10-ND	Pot. Digital 8-Bit, 10K, 4-Channel*	24-TSSOP	5.72	4.58	3.87
AD8403ARUZ50-ND	Pot. Digital 8-Bit, 50K, 4-Channel*	24-TSSOP	5.80	4.64	3.92
AD8403ARUZ100-ND	Pot. Digital 8-Bit, 100K, 4-Channel*	24-TSSOP	5.80	4.64	3.92
AD8403ARZ1-ND	Pot. Digital 8-Bit, 1K, 4-Channel*	24-SOIC	5.72	4.58	3.87
AD8403ARZ10-ND	Pot. Digital 8-Bit, 10K, 4-Channel*	24-SOIC	5.72	4.58	3.87
D8403ARZ100-ND	Pot. Digital 8-Bit, 100K, 4-Channel*	24-SOIC	5.72	4.58	3.87

ANALOG DEVICES Digi-Reel® DISPLAY AND VIDEO CONVERTERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD723ARUZ-ND	RGB to NTSC/PAL Encoder	28-TSSOP	7.80	6.24	5.27
AD724JRZ-ND	RGB to NTSC/PAL Encoder	16-SOIC	10.25	9.23	8.18
AD725ARZ-ND	RGB to NTSC/PAL Encoder	16-SOIC	10.04	8.04	6.78
ADV7180BCPZ-ND	10-Bit 4x Oversampling SDTV Video Decoder	40-LFCSP	11.55	10.40	9.22
ADV7180BSTZ-ND	10-Bit 4x Oversampling SDTV Video Decoder	64-LQFP	12.13	10.92	9.69
EVAL-ADV7180LFEBZ-ND	Evaluation Board for ADV7180	—	189.75	—	—
ADV7183BBSTZ-ND	Multiformat SDTV Video Decoder	80-LQFP	14.33	12.90	11.44
ADV7189BBSTZ-ND	Multiformat SDTV Video Decoder	80-LQFP	33.35	31.13	28.90
ADV7183BKSTZ-ND	Multiformat SDTV Video Decoder	80-LQFP	13.58	12.23	10.84
ADV7189BKSTZ-ND	Multiformat SDTV Video Decoder	80-LQFP	30.32	28.30	26.28
ADV7194KSTZ-ND	Video Encoder EXT-10	80-LQFP	39.56	36.92	34.29
ADVFC32KNZ-ND	Voltage/Freq. and Freq./Volt. Converter 0°C~70°C	14-Dip	10.78	9.71	8.61
Analog					
AD9882AKSTZ-140-ND	Dual Interface for Flat Panel Display	100-LQFP	13.21	11.90	10.55
AD9883ABSTZ-110-ND	Flat Panel Interface	80-LQFP	12.33	11.10	9.85
AD9883AKSTZ-140-ND	Flat Panel Interface	80-LQFP	7.91	7.13	6.32
AD9884AKSZ-140-ND	Analog Interface, 140MSPS	128-MQFP	17.43	16.27	15.11
AD9887AKSZ-140-ND	Analog Interface, Dual, 140MSPS	160-MQFP	20.31	18.96	17.61
AD9887AKSZ-170-ND	Analog Interface Dual	160-MQFP	26.94	25.15	23.35
AD9888KSZ-205-ND	Analog Interface, 205MSPS	128-MQFP	26.94	25.15	23.35

ANALOG DEVICES EVALUATION BOARDS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9211-300EBZ-ND	Evaluation Board for AD9211-300*	—	217.58	—	—
EVAL-220VAC-EUZ-ND	Evaluation Board for 220VAC*	—	22.77	—	—
EVAL-AD2S1210EDZ-ND	Evaluation Board for AD2S1210*	—	150.00	—	—
EVAL-AD5443-DBRDZ-ND	Eval. Board/Daughter Card for µClinux*	—	100.00	—	—
EVAL-AD7938-6CB-ND	Evaluation Board for AD7938	—	140.63	—	—
EVAL-ADV7195EB-ND	Evaluation Board for ADV7195	—	187.50	—	—

ANALOG DEVICES Digi-Reel® FIBER OPTICS AND NETWORKS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADN2816ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mb/s~675Mb/s*	32-LFCSP	15.99	14.93	13.86
ADN2817ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mbps~2.7Gbps*	32-LFCSP	66.39	61.97	57.54
ADN2818ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mbps~2.7Gbps*	32-LFCSP	63.08	58.87	54.67
ADN2819ACP-CML-ND	Clock/Data Recovery	48-LFCSP	84.89	79.23	73.57
ADN2830ACPZ32-ND	Continuous Wave Laser Controller Avg. Power*	32-LFCSP	16.38	15.29	14.20
ADN2841ACPZ-32-ND	Laser Diode Driver 5V*	32-LFCSP	24.63	22.99	21.35
ADN2870ACPZ-ND	Laser Diode Driver 3.3V*	24-LFCSP	9.70	7.76	6.55
ADN2872ACPZ-ND	Laser Diode Driver 3.3V* ***NEW!***	24-LFCSP	9.56	7.65	6.46
ADN2872ACPZ-R7CT-ND	Laser Diode Driver 3.3V* ***NEW!***	24-LFCSP	9.56	7.65	6.46
ADN2872ACPZ-R7TR-ND	Laser Diode Driver 3.3V* ***NEW!***	24-LFCSP	8962.50/1,500		
ADN2872ACPZ-RLCT-ND	Laser Diode Driver 3.3V* ***NEW!***	24-LFCSP	9.56	7.65	6.46
ADN2872ACPZ-RLTR-ND	Laser Diode Driver 3.3V* ***NEW!***	24-LFCSP	29158.00/5,000		
ADN2873ACPZ-ND	Laser Diode Driver 3.3V*	24-LFCSP	7.74	6.20	5.23
ADN2890ACPZ-RL7CT-ND	3.3V, 2.7Gbps Limiting Amp*	16-LFCSP	8.10	6.48	5.47
ADN2890ACPZ-RL7TR-ND	3.3V, 2.7Gbps Limiting Amp*	16-LFCSP	7593.75/1,500		
ADN2891ACPZ-RL7CT-ND	3.3V, 3.2Gbps Limiting Amp*	16-LFCSP	8.10	6.48	5.47
ADN2891ACPZ-RL7TR-ND	3.3V, 3.2Gbps Limiting Amp*	16-LFCSP	7593.75/1,500		

ANALOG DEVICES Digi-Reel® HARDWARE MONITORS AND THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5100YRQZ-1RL7CT-ND	Supervisor with Quad Ch. Voltage Monitor* ***NEW!***	16-QSOP	5.92	4.74	4.00
AD5100YRQZ-1RL7TR-ND	Supervisor with Quad Ch. Voltage Monitor* ***NEW!***	16-QSOP	3700.00/1,000		
ADM1060ARUZ-ND	Supervisor/Sequencer 7-Channel*	28-TSSOP	10.50	9.45	8.38
ADM1062ASUZ-ND	Super Sequencer™ with Margining Control*	48-TQFP	13.21	11.90	10.55
EVAL-ADM1062LFEB-ND	Evaluation Board for ADM1062LF	—	292.50	—	—
EVAL-ADM1063TQEB-ND	Evaluation Board for ADM1063	—	281.25	—	—
ADM1064ASUZ-ND	Super Sequencer™ with Voltage Readback ADC*	48-TQFP	12.61	11.36	10.07
EVAL-ADM1064TQEB-ND	Evaluation Board for ADM1064	—	281.25	—	—
ADM1066ASUZ-ND	Super Sequencer™ with Margining Control*	48-TQFP	13.64	12.29	10.90
EVAL-ADM1066LFEB-ND	Evaluation Board for ADM1066	—	281.25	—	—
ADM1067ASU-ND	Super Sequencer™ w/Open-LoopMargining DACs	48-TQFP	10.46	9.42	8.36
ADM1068ASTZ-ND	Super Sequencer™ and Monitor*	32-LQFP	7.56	6.05	5.11
ADM1069ASTZ-ND	Super Sequencer™ with Margining Control*	32-LQFP	8.20	6.56	5.54
ADM1085AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	.90	.75	.60
ADM1085AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1170.00/3,000		
ADM1086AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	.90	.75	.60
ADM1086AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1170.00/3,000		
ADM1087AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	.90	.75	.60
ADM1087AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1170.00/3,000		
EVAL-ADM1087EB-ND	Evaluation Board for ADM1087*	—	140.63	—	—
ADM1184ARMZ-ND	Quad Voltage Monitor*	10-MSOP	5.45	4.36	3.39
ADM1185ARMZ-1REEL7CT-ND	Quad Voltage Monitor*	10-MSOP	3.38	2.70	2.10
ADM1185ARMZ-1REEL7TR-ND	Quad Voltage Monitor*	10-MSOP	1912.50/1,000		
EVAL-ADM1185EBZ-ND	Evaluation Board for ADM1185*	—	158.13	—	—
ADM1186-1ARQZ-ND	Quad Voltage Up and Down Sequencer*	20-QSOP	7.70	6.16	5.20
ADM1186-2ARQZ-ND	Quad Voltage Up and Down Sequencer*	16-QSOP	6.04	4.84	4.08

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ANALOG DEVICES DigiReel® (Cont.)

HARDWARE MONITORS AND THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM6819ARJZ-REEL7CT-ND	FET Drive Simple Sequencer™*	SOT-23-6	2.36	1.89	1.47
ADM6820ARJZ-REEL7CT-ND	FET Drive Simple Sequencer™*	SOT-23-6	2.36	1.89	1.47
ADM6820ARJZ-REEL7TR-ND	FET Drive Simple Sequencer™*	SOT-23-6	3969.00/3,000		
ADM8843ACPZ-REEL7CT-ND	4 White LED Backlight Driver*	16-LFCSP	1.50	1.25	1.00
ADM8843ACPZ-REEL7TR-ND	4 White LED Backlight Driver*	16-LFCSP	997.50/1,500		
ADM8845ACPZ-REEL7CT-ND	Charge Pump Driver*	16-LFCSP	1.78	1.42	1.07
ADM8845EB-EVALZ-ND	Evaluation Board for ADM8845*	—	156.36	—	—
ADN8830ACPZ-ND	Thermoelectric Cooler Controller*	32-LFCSP	9.53	8.58	7.61
ADN8831ACPZ-REEL7CT-ND	Thermoelectric Cooler Controller*	32-LFCSP	10.36	9.33	8.28
ADN8831ACPZ-REEL7TR-ND	Thermoelectric Cooler Controller*	32-LFCSP	11522.55/1,500		
ADT7411ARQZ-ND	Digital Temperature Sensor 8-Channel ADC*	16-QSOP	5.00	4.00	3.11
EVAL-ADT7463EB-ND	Evaluation Board for ADT7463	—	195.00	—	—
ADT7516ARQZ-ND	Temperature Sensor Quad DAC*	16-QSOP	7.90	6.32	5.34

ANALOG DEVICES DigiReel®

INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Analog					
MAT03EHZ-ND	Trans Matched Dual PNP*	TO-78	26.81	25.02	23.24
MAT03FHZ-ND	Trans Matched Dual PNP*	TO-78	15.61	14.06	12.47
Digital Isolators					
AD260BND-1-ND	Logic Isolator 3.5kV, 1:4 In/Out	22-Dip	79.50	74.20	68.90
ADG1204YRUZ-ND	Mux Low Cap., Low Charge Injection, 4:1 iCMOS*	14-TSSOP	4.95	3.96	3.08
ADG1206YRUZ-ND	Mux Low Capacitance, 16-Channel iCMOS™*	28-TSSOP	9.26	7.41	6.26
ADG1207YRUZ-ND	Mux Low Capacitance, 8-Channel iCMOS™*	28-TSSOP	9.26	7.41	6.26
ADG1208YCPZ-REEL7CT-ND	Mux Low Capacitance, 8-Channel iCMOS™*	16-LFCSP	6.03	4.83	3.76
ADG1208YCPZ-REEL7TR-ND	Mux Low Capacitance, 8-Channel iCMOS™*	16-LFCSP	5025.00/1,500		
ADG1208YRUZ-ND	Mux Low Capacitance, 8-Channel iCMOS™*	16-TSSOP	5.68	4.55	3.84
ADG1208YRZ-ND	Mux Low Capacitance, 8-Channel iCMOS™*	16-SOIC	5.04	4.04	3.41
ADG1209YCPZ-REEL7CT-ND	Mux Low Capacitance, 4-Channel iCMOS™*	16-LFCSP	6.03	4.83	3.76
ADG1209YCPZ-REEL7TR-ND	Mux Low Capacitance, 4-Channel iCMOS™*	16-LFCSP	5025.00/1,500		
ADG1209YRZ-ND	Mux Low Capacitance, 4-Channel iCMOS™*	16-SOIC	5.04	4.04	3.41
ADG1409YCPZ-REEL7CT-ND	Mux iCMOS™ 4-Ohm RON*	16-LFCSP	6.00	4.80	4.05
ADG1409YCPZ-REEL7TR-ND	Mux iCMOS™ 4-Ohm RON*	16-LFCSP	5625.00/1,500		
ADG1409YRUZ-ND	Mux iCMOS™ 4-Ohm RON*	16-TSSOP	6.36	5.09	4.30
MUX08EPZ-ND	Mux Analog JFET 8-Channel*	16-Dip	11.51	10.37	9.20
MUX08FSZ-ND	Mux Analog JFET 8-Channel*	16-SOIC	9.78	7.83	6.61
SMP18FSZ-ND	Mux Input, Octal Sample-Hold*	16-SOIC	12.35	11.12	9.86
Multiplier/Divider					
AD532JHZ-ND	Trimmed Multiplier/Divider*	TO-100-10	24.87	23.22	21.56
AD534JDZ-ND	Trimmed Multiplier/Divider*	14-Dip	32.19	30.05	27.90
AD534JHZ-ND	Trimmed Multiplier/Divider*	TO-100-10	24.80	23.15	21.49
AD534KDZ-ND	Trimmed Multiplier/Divider*	14-CDip	46.83	43.71	40.59
AD534KHZ-ND	Trimmed Multiplier/Divider*	TO-100-10	53.87	50.28	46.69
AD538ADZ-ND	Multiplier/Divider Real-Time ACU*	18-CDip	43.14	40.27	37.39
AD632ADZ-ND	Precision Multiplier Mono*	14-CDip	38.52	35.96	33.39
AD632AHZ-ND	Internally Trimmed Precision Multiplier*	TO-100-10	17.06	15.92	14.79
AD633ANZ-ND	Multiplier Analog*	8-Dip	8.14	6.52	5.50
AD633ARZ-ND	Multiplier Analog*	8-SOIC	8.14	6.52	5.50
AD633JNZ-ND	Multiplier Analog*	8-Dip	8.14	6.52	5.50
AD633JRZ-ND	Multiplier Analog*	8-SOIC	8.14	6.52	5.50
AD734ANZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	20.63	19.25	17.88
AD734BNZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	34.91	32.58	30.26
AD834ARZ-ND	Multiplier 4-Quadrant*	8-SOIC	27.81	25.96	24.11
AD834JRZ-ND	Multiplier 4-Quadrant*	8-SOIC	26.07	24.34	22.60
AD835ANZ-ND	Multiplier 4-Quadrant*	8-Dip	16.23	14.61	12.96
AD835ARZ-ND	Multiplier 4-Quadrant*	8-SOIC	16.23	14.61	12.96
Transmitter/Receiver					
AD7306ARZ-ND	TX/RX RS-232/RS-422, 5V*	24-SOIC	11.95	10.76	9.54
ADM101EARMZ-ND	TX/RX RS-232 Single 5V*	10-MSOP	2.40	1.92	1.44
ADM1491EBRMZ-ND	TX/RX RS-485/RS-422 Full Duplex*	10-MSOP	2.77	2.22	1.73
ADM1491EBRZ-ND	TX/RX RS-485/RS-422 Full Duplex*	14-SOIC	2.63	2.11	1.64
ADM202EANZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	2.28	1.82	1.37
ADM202EARNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.28	1.82	1.37
ADM202EARNZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1183.00/1,000		
ADM202EARUZ-ND	TX/RX RS-232, 5V, 15kV*	16-TSSOP	2.28	1.82	1.37
ADM202EARWZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.28	1.82	1.37
ADM202JNZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	2.15	1.72	1.29
ADM202JRNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.15	1.72	1.29
ADM202JRW-REELCT-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	2.25	1.80	1.40
ADM206EARZ-ND	TX/RX RS-232, 5V Shutdown/Enable*	24-SOIC	3.53	2.83	2.20
ADM207EARZ-ND	TX/RX RS-232, 5V, 15kV*	24-SOIC	3.33	2.67	2.08
ADM208ARZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SOIC	3.33	2.67	2.08
ADM208EANZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-Dip	3.33	2.67	2.08
ADM208EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SSOP	3.33	2.67	2.08
ADM208EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SOIC	3.33	2.67	2.08
ADM211ARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.33	2.67	2.08
ADM211EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3.85	3.08	2.40
ADM211EARS-REELTR-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3270.38/1,500		
ADM211EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.33	2.67	2.08
ADM211EARUZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-TSSOP	3.33	2.67	2.08
ADM211EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	3.33	2.67	2.08
ADM213EARSZ-REELTR-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	2830.50/1,500		
ADM213EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.33	2.67	2.08
ADM213EARUZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-TSSOP	3.33	2.67	2.08
ADM213EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	3.33	2.67	2.08
ADM222ANZ-ND	TX/RX RS-232, 5V with Shutdown*	18-Dip	2.97	2.38	1.85
ADM222ARZ-ND	TX/RX RS-232, 5V with Shutdown*	18-SOIC	2.97	2.38	1.85
ADM232AANZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.27	1.82	1.42
ADM232AARNZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.27	1.82	1.42
ADM232AARWZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.27	1.82	1.42
ADM232AARW-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	2.63	2.11	1.64
ADM232AARW-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	1491.75/1,000		
ADM232LANZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.40	1.92	1.44
ADM232LARZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.40	1.92	1.44
ADM232LJNZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.40	1.92	1.44
ADM232LJRZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.40	1.92	1.44
ADM233LANZ-ND	TX/RX RS-232, Dual 5V*	20-Dip	5.26	4.21	3.56
ADM233LJNZ-ND	TX/RX RS-232, Dual 5V*	20-Dip	5.24	4.20	3.27
ADM238LARZ-ND	TX/RX RS-232, Quad 5V*	24-SOIC	3.33	2.67	2.08
ADM238LJNZ-ND	TX/RX RS-232, Quad 5V*	24-Dip	3.08	2.47	1.92
ADM238LJRZ-ND	TX/RX RS-232, Quad 5V*	24-SOIC	3.08	2.47	1.92
ADM241LARZ-ND	TX/RX RS-232, 5V*	28-SOIC	2.97	2.38	1.85

ANALOG DEVICES DigiReel® (Cont.)

INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM242ARZ-ND	TX/RX RS-232 with Enable and Shutdown*	18-SOIC	3.08	2.47	1.92
ADM483ARZ-ND	TX/RX RS-485/RS-422 LP, Slew-Rate Limited*	8-SOIC	1.65	1.32	.99
ADM483EANZ-ND	TX/RX RS-485 Low-Slew 5V*	8-Dip	2.86	2.29	1.78
ADM483EARZ-ND	TX/RX RS-485 Low-Slew 5V*	8-SOIC	2.30	1.84	1.43
ADM483EARZ-REELCT-ND	TX/RX RS-485 Low-Slew 5V* ***NEW!***	8-SOIC	2.30	1.84	1.53
ADM483EARZ-REELTR-ND	TX/RX RS-485 Low-Slew 5V*	8-SOIC	3213.00/2,500		
ADM485ANZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-Dip	2.40	1.92	1.44
ADM485ARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.40	1.92	1.44
ADM485EARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.77	2.22	1.73
ADM485JNZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-Dip	2.15	1.72	1.29
ADM485JRZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.15	1.72	1.29
ADM487EARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.77	2.22	1.73
ADM488ANZ-ND	TX/RX RS-485 Low-Slew*	8-Dip	2.72	2.18	1.70
ADM488ARZ-ND	TX/RX RS-485 Low-Slew*	8-SOIC	2.72	2.18	1.70
ADM489ANZ-ND	TX/RX RS-485 Low-Slew/Enable*	14-Dip	3.42	2.74	2.13
ADM489ARZ-ND	TX/RX RS-485 Low-Slew/Enable*	14-SOIC	3.42	2.74	2.13
ADM1385ARSZ-ND	TX/RX RS-232 High Speed 3.3V*	20-SSOP	3.06	2.45	1.91
ADM1485ARZ-ND	TX/RX RS-485 High Speed 5V*	8-SOIC	2.50	2.00	1.56
ADM1485JNZ-ND	TX/RX RS-485 High Speed 5V*	8-Dip	2.40	1.92	1.44
ADM1485JRZ-ND	TX/RX RS-485 High Speed 5V*	8-SOIC	2.15	1.72	1.29
ADM1486ARZ-ND	TX/RX RS-485 PROFIBUS 5V*	8-SOIC	4.66	3.73	2.90
ADM2209EARUZ-ND	TX/RX 6/10 RS-232, 12V*	38-TSSOP	5.04	4.04	3.14
ADM2482EBRWZ-ND	Tx/RX RS-485 2.5kV Isolated*	16-SOIC	9.32	7.46	6.30
ADM2483BRWZ-ND	TX/RX RS-485 Half Duplex, iCoupler®*	16-SOIC	6.08	4.87	4.11
ADM2484EBRWZ-ND	TX/RX RS-485 500kbps, iCoupler® Isolated*	16-SOIC	6.16	4.93	4.16
ADM2485BRWZ-ND	TX/RX RS-485 High Speed, Half Duplex Isolated*	16-SOIC	9.28	8.36	7.41
ADM2486BRWZ-ND	TX/RX RS-485 High Speed, Half Duplex iCoupler®*	16-SOIC	8.40	7.56	6.71
ADM2487EBRWZ-ND	TX/RX RS-485 2.5kV Isolated*	16-SOIC	7.48	5.99	5.05
ADM2490EBRWZ-ND	TX/RX Isolated RS-485, HS, ESD, iCoupler®*	16-SOIC	9.10	7.28	6.15
ADM2491EBRWZ-ND	TX/RX RS-485 Half/Full Duplex*	16-SOIC	9.52	7.62	6.43
ADM3070EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.49	2.79	2.17
ADM3070EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.83	3.06	2.38
ADM3071EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.40	2.72	2.12
ADM3071EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.69	2.96	2.30
ADM3072EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.26	2.61	2.03
ADM3075EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.26	2.61	2.03
ADM3076EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.49	2.79	2.17
ADM3077EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.40	2.72	2.12
ADM3078EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.33	2.67	2.08
ADM3078EYRZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.67	2.94	2.29
ADM3101EACPZ-250R7CT-ND	TX/RX RS-232, 3.3V*	12-LFCSP	2.23	1.78	1.34
ADM3101EACPZ-250R7TR-ND	TX/RX RS-232, 3.3V*	12-LFCSP	311.50/250		
ADM3101EARQZ-ND	TX/RX RS-232, 3.3V*	16-QSOP	2.43	1.94	1.46
ADM3202ANZ-ND	TX/RX Dual RS-232, 3.3V*	16-Dip	2.57	2.06	1.60
ADM3202ARNZ-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	2.57	2.06	1.60
ADM3202ARUZ-ND	TX/RX Dual RS-232, 3.3V*	16-TSSOP	2.57	2.06	1.60
ADM3202ARWZ-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	2.57	2.06	1.60
ADM3222ANZ-ND	TX/RX RS-232, 3.3V with Shutdown*	18-Dip	2.57	2.06	1.60
ADM3222ARSZ-ND	TX/RX RS-232, 3.3V with Shutdown*	20-SSOP	2.57	2.06	1.60
ADM3222ARUZ-ND	TX/RX RS-232, 3.3V with Shutdown*	20-TSSOP	2.57	2.06	1.60
ADM3222ARWZ-ND	TX/RX RS-232, 3.3V with Shutdown*	18-SOIC	2.57	2.06	1.60
ADM3232EARNZ-ND	TX/RX RS-232, 3.3V*	16-SOIC	2.95	2.36	1.84
ADM3232EARUZ-ND	TX/RX RS-232, 3.3V*	16-TSSOP	2.95	2.36	1.84
ADM3232EARWZ-ND	TX/RX RS-232, 3.3V*	16-SOIC	2.95	2.36	1.84
ADM3251EARWZ-REELCT-ND	TX/RX RS-232, Isolated, 1-Channel*	20-SOIC	6.10	4.88	4.12
ADM3251EARWZ-REELTR-ND	TX/RX RS-232, Isolated, 1-Channel*	20-SOIC	3812.50/1,000		
EVAL-ADM3251EEBZ-ND	Evaluation Board for ADM3251*	—	40.00	—	—
ADM3307EARUZ-ND	TX/RX RS-232, 2.7V to 3.6V*	28-TSSOP	3.15	2.52	1.96
ADM3310EARUZ-ND	TX/RX RS-232, 3:5, 2.7V*	28-TSSOP	3.24	2.60	2.02
ADM3311EARSZ-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	3.20	2.56	1.99
ADM3311EARSZ-REELCT-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	3.55	2.84	2.13
ADM3311EARSZ-REELTR-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	2715.75/1,500		
ADM3311EARUZ-ND	TX/RX RS-232, 2.7 to 3.6V*	28-TSSOP	3.20	2.56	1.99
ADM3311EARU-RL7CT-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	3.69	2.96	2.30
ADM3311EARU-RL7TR-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	2091.00/1,000		
ADM3312EARUZ-ND	TX/RX RS-232, 2.7V to 3.6V*	24-TSSOP	3.15	2.52	1.96
ADM3315EARUZ-ND	TX/RX RS-232, 3:5, 2.7V*	24-TSSOP	3.24	2.60	2.02
ADM3483ARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.40	1.92	1.44
ADM3483EARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.84	2.27	1.77
ADM3485ARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.39	1.91	1.49
ADM3485EARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.77	2.22	1.73
ADM3486EARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.84	2.27	1.77
ADM3488ARZ-ND	TX/RX RS-485/RS-422, Full Duplex 3.3V*	8-SOIC	2.40	1.92	1.44
ADM3488EARZ-ND	TX/RX RS-485/RS-422, Full Duplex 3.3V*	8-SOIC	2.84	2.27	1.77
ADM3490ARZ-ND	TX/RX RS-485/RS-422, Full Duplex 3.3V*	8-SOIC	2.39	1.91	1.49
ADM3490EARZ-ND	TX/RX RS-485/RS-422, Full Duplex 3.3V*	8-SOIC	2.95	2.36	1.84
ADM3491ARZ-ND	TX/RX RS-485 High Speed Full Duplex 3.3V*	14-SOIC	2.54	2.04	1.59
ADM3491ARUZ-1-ND	TX/RX RS-485 High Speed Full Duplex 3.3V*	16-TSSOP	2.97	2.38	1.85
ADM3491EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.06	2.45	1.91
ADM3493ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 3.3V*	8-SOIC	2.27	1.82	1.42
ADM4850ARMZ-REEL7CT-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADM4850ARMZ-REEL7TR-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V* ***NEW!***	8-MSOP	1248.00/1,000		
ADM4850ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4851ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4852ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4853ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4854ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4856ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92
ADM4857ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.53	1.22	.92

ANALOG DEVICES

MOTION/MOTOR CONTROL

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD2S80AJD-ND	R/D Converter Tracking	40-CDip	160.91	150.18	139.46
AD2S82AHPZ-ND	R/D Converter Tracking*	44-PLCC	78.71	73.46	68.22

* RoHS Compliant

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

ANALOG DEVICES *(Cont.)* MOTION/MOTOR CONTROL

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD2S83APZ-ND	R/D Converter Tracking*	44-PLCC	149.84	139.85	129.86
AD2S90APZ-ND	R/D Converter 12-Bit*	20-PLCC	44.48	41.51	38.55
AD2S99APZ-ND	Programmable Oscillator*	20-PLCC	14.21	12.80	11.35
AD2S1200WSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	18.50	17.27	16.03
AD2S1200YSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	23.12	21.58	20.04
EVAL-AD2S1200CBZ-ND	Evaluation Board for AD2S1200*	—	151.80	—	—
AD2S1205WSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	18.50	17.27	16.03
AD2S1210ASTZ-ND	R/D Converter 10-Bit ~ 16-Bit*	48-LQFP	18.42	17.20	15.97
AD2S1210BSTZ-ND	R/D Converter 10-Bit ~ 16-Bit*	48-LQFP	21.50	20.07	18.63
AD2S1210DSTZ-ND	R/D Converter 10-Bit ~ 16-Bit* ***NEW!***	48-LQFP	23.04	21.51	19.97
AD598AD-ND	LVDT Signal Conditioning	20-CDip	56.46	52.70	48.94
AD598JRZ-ND	LVDT Signal Conditioning*	20-SOIC	34.79	32.47	30.15
AD698APZ-ND	LVDT Signal Conditioning*	28-PLCC	27.38	25.55	23.73

ANALOG DEVICES Digi-Reel® POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Battery Chargers — RoHS Compliant					
ADP2291ACPZ-R7CT-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-LFCSP	2.54	2.04	1.59
ADP2291ARMZ-R7CT-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-MSOP	2.52	2.02	1.57
ADP2291ARMZ-R7TR-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-MSOP	1428.00/1,000		
ADP3806JRUZ-REEL7CT-ND	High Freq. Switch Mode Li-Ion Battery Charger	24-TSSOP	5.94	4.94	4.49
DC-to-DC					
AD8240YRM-ND	LED Driver/Monitor	8-MSOP	3.04	2.43	1.89
AD8240YRMZ-ND	LED Driver/Monitor*	8-MSOP	2.90	2.33	1.81
ADM660ANZ-ND	Converter Switch Capacitor*	8-Dip	2.27	1.82	1.42
ADM660ARZ-ND	Converter Switch Capacitor*	8-SOIC	2.27	1.82	1.42
ADM8828ARTZ-REEL7CT-ND	Switched Capacitor Charge Pump Voltage Inverter* ***NEW!***	SOT-23-6	1.90	1.52	1.14
ADM8828ARTZ-REEL7TR-ND	Switched Capacitor Charge Pump Voltage Inverter* ***NEW!***	SOT-23-6	2918.40/3,000		
ADP1610ARMZ-R7CT-ND	1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	2.52	2.02	1.57
ADP1610ARMZ-R7TR-ND	1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	1428.00/1,000		
ADP1612ARMZ-R7CT-ND	Adj., 1.4A Step-Up DC-DC Switching Converter* ***NEW!***	8-MSOP	1.95	1.56	1.17
ADP1612ARMZ-R7TR-ND	Adj., 1.4A Step-Up DC-DC Switching Converter* ***NEW!***	8-MSOP	1014.00/1,000		
ADP1612-5-EVALZ-ND	Evaluation Board for ADP1612* ***NEW!***	—	75.00	—	—
ADP1613ARMZ-R7CT-ND	2A PWM DC-DC Switching Converter* ***NEW!***	8-MSOP	1.75	1.40	1.05
ADP1613ARMZ-R7TR-ND	2A PWM DC-DC Switching Converter* ***NEW!***	8-MSOP	910.00/1,000		
ADP1613-12-EVALZ-ND	Evaluation Board for ADP1613	—	75.00	—	—
ADP1621ARMZ-R7CT-ND	Constant Freq., Current-Mode, Step-Up DC-DC Controller*	10-MSOP	2.97	2.38	1.85
ADP1621ARMZ-R7TR-ND	Constant Freq., Current-Mode, Step-Up DC-DC Controller*	10-MSOP	1683.00/1,000		
ADP1821ARQZ-R7CT-ND	20A Step-Down DC-DC Controller*	16-QSOP	3.17	2.54	1.98
ADP1821ARQZ-R7TR-ND	20A Step-Down DC-DC Controller*	16-QSOP	1797.75/1,000		
ADP1822-EVAL-ND	Evaluation Board for ADP1822	—	75.90	—	—
ADP1822ARQZ-R7CT-ND	PWM Step-Down DC-DC Controller*	24-QSOP	3.29	2.63	2.05
ADP1823-EVAL-ND	Evaluation Board for ADP1823	—	75.90	—	—
ADP1823ACPZ-R7CT-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4.93	3.95	3.07
ADP1828YRQZ-R7CT-ND	PWM Step-Down DC-DC Controller*	20-QSOP	3.42	2.74	2.13
ADP1829-EVALZ-ND	Evaluation Board for ADP1829*	—	75.90	—	—
ADP1829ACPZ-R7CT-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4.79	3.84	2.99
ADP1829ACPZ-R7TR-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4073.63/1,500		
ADP1864-EVALZ-ND	Evaluation Board for ADP1864*	—	75.90	—	—
ADP1864AUJZ-R7CT-ND	Constant Freq., Current-Mode Step-Down DC-DC Controller*	TSOT-23-6	2.39	1.91	1.49
ADP1864AUJZ-R7TR-ND	Constant Freq., Current-Mode Step-Down DC-DC Controller*	TSOT-23-6	4006.80/3,000		
ADP2102-EVALZ-ND	Evaluation Board for ADP2102*	—	75.00	—	—
ADP2102-1.2-EVALZ-ND	Evaluation Board for ADP2102-1.2*	—	75.90	—	—
ADP2102YCPZ-1.2-R7CT-ND	600mA, 1.2V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.77	2.22	1.73
ADP2102YCPZ-3-R7CT-ND	600mA, 3V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.77	2.22	1.73
ADP2102YCPZ-4-R7CT-ND	600mA, 4V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.77	2.22	1.73
ADP2105-EVALZ-ND	Evaluation Board for ADP2105*	—	75.90	—	—
ADP2105ACPZ-R7CT-ND	1A Sync. Step-Down DC-DC Converter*	16-LFCSP	2.54	2.04	1.59
ADP2105ACPZ-R7TR-ND	1A Sync. Step-Down DC-DC Converter*	16-LFCSP	2161.13/1,500		
ADP2106-EVALZ-ND	Evaluation Board for ADP2106*	—	75.90	—	—
ADP2106ACPZ-R7CT-ND	1.5A, Sync. Step-Down DC-DC Converter*	16-LFCSP	2.81	2.25	1.75
ADP2106ACPZ-R7TR-ND	1.5A, Sync. Step-Down DC-DC Converter*	16-LFCSP	2390.63/1,500		
ADP2106ACPZ-3.3-R7CT-ND	1.5A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	2.81	2.25	1.75
ADP2107ACPZ-R7CT-ND	2A, Sync. Step-Down DC-DC Converter*	16-LFCSP	2.97	2.38	1.85
ADP2107ACPZ-R7TR-ND	2A, Sync. Step-Down DC-DC Converter*	16-LFCSP	2524.50/1,500		
ADP2107ACPZ-1.2-R7CT-ND	2A, 1.2V Sync. Step-Down DC-DC Converter*	16-LFCSP	2.97	2.38	1.85
ADP2107ACPZ-1.5-R7CT-ND	2A, 1.5V Sync. Step-Down DC-DC Converter*	16-LFCSP	2.97	2.38	1.85
ADP2107-1.8-EVAL-ND	Evaluation Board for ADP2107ACPZ-1.8	—	50.00	—	—
ADP2107ACPZ-1.8-R7CT-ND	2A, 1.8V Sync. Step-Down DC-DC Converter*	16-LFCSP	2.97	2.38	1.85
ADP2107ACPZ-3.3-R7CT-ND	2A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	2.97	2.38	1.85
ADP2109ACBZ-1.8-R7CT-ND	600mA, 1.8V Step-Down DC-DC Conv.* ***NEW!***	5-WLCSP	1.75	1.40	1.05
ADP2109ACBZ-1.8-R7TR-ND	600mA, 1.8V Step-Down DC-DC Conv.* ***NEW!***	5-WLCSP	2688.00/3,000		
ADP2109CB-1.8EVALZ-ND	Evaluation Board for ADP2109* ***NEW!***	—	75.00	—	—
ADP2114ACPZ-R7CT-ND	Dual 2A, Sync. Step-Down DC-DC Converter* ***NEW!***	32-LFCSP	5.00	4.00	3.38
ADP2114ACPZ-R7TR-ND	Dual 2A, Sync. Step-Down DC-DC Converter* ***NEW!***	32-LFCSP	4687.50/1,500		
ADP2116ACPZ-R7CT-ND	Dual 3A/Single 6A Sync. Step-Down DC-DC Reg.* ***NEW!***	32-LFCSP	6.34	5.08	4.28
ADP2116ACPZ-R7TR-ND	Dual 3A/Single 6A Sync. Step-Down DC-DC Reg.* ***NEW!***	32-LFCSP	5943.75/1,500		
ADP2118ACPZ-R7CT-ND	3A, Adj. Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-R7TR-ND	3A, Adj. Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2118ACPZ-1.0-R7CT-ND	3A, 1V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-1.0-R7TR-ND	3A, 1V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2118ACPZ-1.2-R7CT-ND	3A, 1.2V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-1.2-R7TR-ND	3A, 1.2V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		

ANALOG DEVICES Digi-Reel® *(Cont.)* POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADP2118ACPZ-1.5-R7CT-ND	3A, 1.5V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-1.5-R7TR-ND	3A, 1.5V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2118ACPZ-1.8-R7CT-ND	3A, 1.8V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-1.8-R7TR-ND	3A, 1.8V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2118ACPZ-2.5-R7CT-ND	3A, 2.5V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-2.5-R7TR-ND	3A, 2.5V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2118ACPZ-3.3-R7CT-ND	3A, 3.3V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3.60	2.88	2.24
ADP2118ACPZ-3.3-R7TR-ND	3A, 3.3V Sync. Step-Down DC-DC Reg.* ***NEW!***	16-LFCSP	3060.00/1,500		
ADP2503ACPZ-R7CT-ND	0.6A, Adj. Buck-Boost DC-DC Converter* ***NEW!***	10-LFCSP	2.93	2.34	1.82
ADP2503ACPZ-R7TR-ND	0.6A, Adj. Buck-Boost DC-DC Converter* ***NEW!***	10-LFCSP	2486.25/1,500		
ADP2504ACPZ-R7CT-ND	1A, Adj. Buck-Boost DC-DC Converter* ***NEW!***	10-LFCSP	3.15	2.52	1.96
ADP2504ACPZ-R7TR-ND	1A, Adj. Buck-Boost DC-DC Converter* ***NEW!***	10-LFCSP	2677.50/1,500		
ADP3041ARU-REELCT-ND	TFT LCD Panel Power Module	20-TSSOP	4.64	3.71	2.89
ADP3041ARU-REELTR-ND	TFT LCD Panel Power Module	20-TSSOP	6646.50/2,500		
ADP3050ARZ-R7CT-ND	1A, Adj. Step-Down Switching Regulator*	8-SOIC	4.07	3.26	2.54
ADP3050ARZ-R7TR-ND	1A, Adj. Step-Down Switching Regulator*	8-SOIC	2307.75/1,000		
ADP3050ARZ-5-ND	1A, 5V Step-Down Switching Regulator*	8-SOIC	4.07	3.26	2.54
ADP3623ARDZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3623ARDZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2816.00/2,500		
ADP3623ARHZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADP3623ARHZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	3686.40/3,000		
ADP3624ARDZ-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3624ARHZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADP3624ARHZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	3686.40/3,000		
ADP3625ARDZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3625ARDZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2816.00/2,500		
ADP3625ARHZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADP3625ARHZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	3686.40/3,000		
ADP3629ARMZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	2.03	1.62	1.22
ADP3629ARMZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	1053.00/1,000		
ADP3629ARZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	1.90	1.52	1.14
ADP3629ARZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	988.00/1,000		
ADP3630ARMZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	2.03	1.62	1.22
ADP3630ARMZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	1053.00/1,000		
ADP3630ARZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	1.90	1.52	1.14
ADP3630ARZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	988.00/1,000		
ADP3631ARMZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	2.03	1.62	1.22
ADP3631ARMZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-MSOP	1053.00/1,000		
ADP3631ARZ-R7CT-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	1.90	1.52	1.14
ADP3631ARZ-R7TR-ND	High Speed, Dual, 2A MOSFET Driver* ***NEW!***	8-SOIC	988.00/1,000		
ADP3633ARDZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3633ARDZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2816.00/2,500		
ADP3633ARHZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADP3633ARHZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	3686.40/3,000		
ADP3634ARDZ-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3635ARDZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2.20	1.76	1.32
ADP3635ARDZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-SOIC	2816.00/2,500		
ADP3635ARHZ-RLCT-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	2.40	1.92	1.44
ADP3635ARHZ-RLTR-ND	High Speed, Dual, 4A MOSFET Driver* ***NEW!***	8-MSOP	3686.40/3,000		
Display and Lighting — RoHS Compliant					
ADP1653ACPZ-R7CT-ND	Compact, High Power, Flash/Torch LED Driver	16-LFCSP	3.26	2.61	2.03
ADP1653ACPZ-R7TR-ND	Compact, High Power, Flash/Torch LED Driver	16-LFCSP	2773.13/1,500		
ADP3650JRZ-ND	Dual Bootstrapped, 12V MOSFET Driver	8-SOIC	1.93	1.54	1.16
ADP8860ACPZ-R7CT-ND	7-Ch. Smart LED Driver, RGB Backlight ***NEW!***	20-LFCSP	3.83	3.06	2.38
ADP8860ACPZ-R7TR-ND	7-Ch. Smart LED Driver, RGB Backlight ***NEW!***	20-LFCSP	3251.25/1,500		
Hot Swap Controllers — RoHS Compliant					
ADM1170-1AUJZ-RL7CT-ND	1.6V~16.5V Hot Swap Controller with Soft Start	8-TSOT	4.79	3.84	2.99
ADM1170-1AUJZ-RL7TR-ND	1.6V~16.5V Hot Swap Controller with Soft Start	8-TSOT	8051.40/3,000		
ADM1170-2AUJZ-RL7CT-ND	1.6V~16.5V Hot Swap Controller with Soft Start	8-TSOT	4.79	3.84	2.99
ADM1171-1AUJZ-RL7CT-ND	2.7V~16.5V Hot Swap Ctrlr w/Curr. Sense Output	8-TSOT	4.46	3.57	3.02
ADM1171-2AUJZ-RL7CT-ND	2.7V~16.5V Hot Swap Ctrlr w/Curr. Sense Output	8-TSOT	4.46	3.57	3.02
ADM1172-1AUJZ-RL7CT-ND	2.7V~16.5V Hot Swap Controller w/Pwr-Fail Comp.	8-TSOT	4.55	3.64	2.83
ADM1172-1AUJZ-RL7TR-ND	2.7V~16.5V Hot Swap Controller w/Pwr-Fail Comp.	8-TSOT	7635.60/3,000		
ADM1172-2AUJZ-RL7CT-ND	2.7V~16.5V Hot Swap Controller w/Pwr-Fail Comp.	8-TSOT	4.55	3.64	2.83
ADM1175-1ARMZ-R7CT-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	4.40	3.52	2.97
ADM1175-3ARMZ-R7CT-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	4.40	3.52	2.97
EVAL-ADM1175EBZ-ND	Evaluation Board for ADM1175	—	151.80	—	—
ADM1176-1ARMZ-R7CT-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	4.40	3.52	2.97
ADM1176-2ARMZ-R7CT-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	4.40	3.52	2.97
EVAL-ADM1176EBZ-ND	Evaluation Board for ADM1176	—	151.80	—	—
EVAL-ADM1177EBZ-ND	Evaluation Board for ADM1177	—	151.80	—	—
ADM1178-2ARMZ-R7CT-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	4.76	3.81	3.22
ADM1178-2ARMZ-R7TR-ND	3.15V~16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	2975.00/1,000		
EVAL-ADM1178EBZ-ND	Evaluation Board for ADM1178	—	151.80	—	—
ADM4210-1AUJZ-RL7CT-ND	2.7V~16.5V Hot Swap Controller	6-TSOT	5.26	4.21	3.56
NEW! PWM Controllers — RoHS Compliant NEW!					
ADP1872ARMZ-0.3-R7CT-ND	0.3MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1872ARMZ-0.3-R7TR-ND	0.3MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
ADP1872ARMZ-0.6-R7CT-ND	0.6MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1872ARMZ-0.6-R7TR-ND	0.6MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
ADP1872ARMZ-1.0-R7CT-ND	1.0MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1872ARMZ-1.0-R7TR-ND	1.0MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
ADP1873ARMZ-0.3-R7CT-ND	0.3MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1873ARMZ-0.3-R7TR-ND	0.3MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
ADP1873ARMZ-0.6-R7CT-ND	0.6MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1873ARMZ-0.6-R7TR-ND	0.6MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
ADP1873ARMZ-1.0-R7CT-ND	1.0MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	2.32	1.86	1.45
ADP1873ARMZ-1.0-R7TR-ND	1.0MHz Sync. Current-Mode PWM Buck Controller	10-MSOP	1313.25/1,000		
Regulators — RoHS Compliant					
ADP121-3.0-EVALZ-ND	Evaluation Board for ADP121, 3V	—	90.00	—	—
ADP121-ACBZ188R7CT-ND	Regulator CMOS LDO 150mA, 1.875V ***NEW!***	4-WLCSP	.93	.78	.62
ADP121-ACBZ188R7TR-ND	Regulator CMOS LDO 150mA, 1.875V ***NEW!***	4-WLCSP	1209.00/3,000		
ADP121-AUJZ28R7CT-ND	Regulator CMOS LDO 150mA, 2.8V	5-TSOT	.81	.68	.54
ADP121-AUJZ28R7TR-ND	Regulator CMOS LDO 150mA, 2.8V	5-TSOT	1053.00/3,000		
ADP121-AUJZ30R7CT-ND	Regulator CMOS LDO 150mA, 3V	5-TSOT	.81	.68	.54
ADP121-AUJZ30R7TR-ND	Regulator CMOS LDO 150mA, 3V	5-TSOT	1053.00/3,000		
ADP121-AUJZ33R7CT-ND	Regulator CMOS LDO 150mA, 3.3V	5-TSOT	.81	.68	.54
ADP121-AUJZ33R7TR-ND	Regulator CMOS LDO 150mA, 3.3V	5-TSOT	1053.00/3,000		
ADP122AUJZ-2.5-R7CT-ND	Regulator CMOS LDO 300mA, 2.5V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-2.5-R7TR-ND	Regulator CMOS LDO 300mA, 2.5V ***NEW!***	5-TSOT	1326.00/3,000		

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* *RoHS Compliant*

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(Continued)

ANALOG DEVICES DigiReel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP122AUJZ-2.7-R7CT-ND	Regulator CMOS LDO 300mA, 2.7V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-2.7-R7TR-ND	Regulator CMOS LDO 300mA, 2.7V ***NEW!***	5-TSOT	1326.00/3,000		
ADP122AUJZ-2.8-R7CT-ND	Regulator CMOS LDO 300mA, 2.8V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-2.8-R7TR-ND	Regulator CMOS LDO 300mA, 2.8V ***NEW!***	5-TSOT	1326.00/3,000		
ADP122AUJZ-2.85-R7CT-ND	Regulator CMOS LDO 300mA, 2.85V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-2.85-R7TR-ND	Regulator CMOS LDO 300mA, 2.85V ***NEW!***	5-TSOT	1326.00/3,000		
ADP122AUJZ-2.9-R7CT-ND	Regulator CMOS LDO 300mA, 2.9V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-2.9-R7TR-ND	Regulator CMOS LDO 300mA, 2.9V ***NEW!***	5-TSOT	1326.00/3,000		
ADP122AUJZ-3.0-R7CT-ND	Regulator CMOS LDO 300mA, 3V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-3.0-R7TR-ND	Regulator CMOS LDO 300mA, 3V ***NEW!***	5-TSOT	1326.00/3,000		
ADP122AUJZ-3.3-R7CT-ND	Regulator CMOS LDO 300mA, 3.3V ***NEW!***	5-TSOT	1.02	.85	.68
ADP122AUJZ-3.3-R7TR-ND	Regulator CMOS LDO 300mA, 3.3V ***NEW!***	5-TSOT	1326.00/3,000		
ADP123AUJZ-R7CT-ND	Regulator CMOS LDO 300mA, Adj. ***NEW!***	5-TSOT	1.02	.85	.68
ADP123AUJZ-R7TR-ND	Regulator CMOS LDO 300mA, Adj. ***NEW!***	5-TSOT	1326.00/3,000		
ADP124ARHZ-1.8-R7CT-ND	Regulator CMOS LDO 500mA, 1.8V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-1.8-R7TR-ND	Regulator CMOS LDO 500mA, 1.8V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-2.5-R7CT-ND	Regulator CMOS LDO 500mA, 2.5V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-2.5-R7TR-ND	Regulator CMOS LDO 500mA, 2.5V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-2.7-R7CT-ND	Regulator CMOS LDO 500mA, 2.7V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-2.7-R7TR-ND	Regulator CMOS LDO 500mA, 2.7V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-2.8-R7CT-ND	Regulator CMOS LDO 500mA, 2.8V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-2.8-R7TR-ND	Regulator CMOS LDO 500mA, 2.8V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-2.85-R7CT-ND	Regulator CMOS LDO 500mA, 2.85V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-2.85-R7TR-ND	Regulator CMOS LDO 500mA, 2.85V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-2.9-R7CT-ND	Regulator CMOS LDO 500mA, 2.9V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-2.9-R7TR-ND	Regulator CMOS LDO 500mA, 2.9V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-3.0-R7CT-ND	Regulator CMOS LDO 500mA, 3V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-3.0-R7TR-ND	Regulator CMOS LDO 500mA, 3V ***NEW!***	8-MSOP	558.60/1,000		
ADP124ARHZ-3.3-R7CT-ND	Regulator CMOS LDO 500mA, 3.3V ***NEW!***	8-MSOP	1.26	1.05	.84
ADP124ARHZ-3.3-R7TR-ND	Regulator CMOS LDO 500mA, 3.3V ***NEW!***	8-MSOP	558.60/1,000		
ADP125ARHZ-R7CT-ND	Regulator CMOS LDO 500mA, Adj. ***NEW!***	8-MSOP	1.29	1.08	.86
ADP125ARHZ-R7TR-ND	Regulator CMOS LDO 500mA, Adj. ***NEW!***	8-MSOP	558.60/1,000		
ADP130-2.5-EVALZ-ND	Evaluation Board for ADP130, 2.5V	—	75.00	—	—
ADP130AUJZ-2.5-R7CT-ND	Regulator CMOS LDO 350mA, 2.5V	5-TSOT	.99	.83	.66
ADP150ACBZ-2.5-R7CT-ND	Regulator CMOS LDO 150mA, 2.5V ***NEW!***	4-WLCSP	.93	.78	.62
ADP150ACBZ-2.5-R7TR-ND	Regulator CMOS LDO 150mA, 2.5V ***NEW!***	4-WLCSP	1209.00/3,000		
ADP150ACBZ-2.8-R7CT-ND	Regulator CMOS LDO 150mA, 2.8V ***NEW!***	4-WLCSP	.93	.78	.62
ADP150ACBZ-2.8-R7TR-ND	Regulator CMOS LDO 150mA, 2.8V ***NEW!***	4-WLCSP	1209.00/3,000		
ADP150ACBZ-3.0-R7CT-ND	Regulator CMOS LDO 150mA, 3V ***NEW!***	4-WLCSP	.93	.78	.62
ADP150ACBZ-3.0-R7TR-ND	Regulator CMOS LDO 150mA, 3V ***NEW!***	4-WLCSP	1209.00/3,000		
ADP150ACBZ-3.3-R7CT-ND	Regulator CMOS LDO 150mA, 3.3V ***NEW!***	4-WLCSP	.93	.78	.62
ADP150ACBZ-3.3-R7TR-ND	Regulator CMOS LDO 150mA, 3.3V ***NEW!***	4-WLCSP	1209.00/3,000		
ADP150AUJZ-1.8-R7CT-ND	Regulator CMOS LDO 150mA, 1.8V ***NEW!***	TSOT-5	.93	.78	.62
ADP150AUJZ-1.8-R7TR-ND	Regulator CMOS LDO 150mA, 1.8V ***NEW!***	TSOT-5	1209.00/3,000		
ADP150AUJZ-2.5-R7CT-ND	Regulator CMOS LDO 150mA, 2.5V ***NEW!***	TSOT-5	.93	.78	.62
ADP150AUJZ-2.5-R7TR-ND	Regulator CMOS LDO 150mA, 2.5V ***NEW!***	TSOT-5	1209.00/3,000		
ADP150AUJZ-2.8-R7CT-ND	Regulator CMOS LDO 150mA, 2.8V ***NEW!***	TSOT-5	.93	.78	.62
ADP150AUJZ-2.8-R7TR-ND	Regulator CMOS LDO 150mA, 2.8V ***NEW!***	TSOT-5	1209.00/3,000		
ADP150AUJZ-3.0-R7CT-ND	Regulator CMOS LDO 150mA, 3V ***NEW!***	TSOT-5	.93	.78	.62
ADP150AUJZ-3.0-R7TR-ND	Regulator CMOS LDO 150mA, 3V ***NEW!***	TSOT-5	1209.00/3,000		
ADP150AUJZ-3.3-R7CT-ND	Regulator CMOS LDO 150mA, 3.3V ***NEW!***	TSOT-5	.93	.78	.62
ADP150AUJZ-3.3-R7TR-ND	Regulator CMOS LDO 150mA, 3.3V ***NEW!***	TSOT-5	1209.00/3,000		
ADP170AUJZ-1.2-R7CT-ND	Regulator CMOS LDO 300mA, 1.2V ***NEW!***	TSOT-23-5	.99	.83	.66
ADP170AUJZ-1.2-R7TR-ND	Regulator CMOS LDO 300mA, 1.2V ***NEW!***	TSOT-23-5	1287.00/3,000		
ADP220ACBZ-1812R7CT-ND	Regulator LDO 200mA, 1.8V/1.2V ***NEW!***	6-WLCSP	1.45	1.16	.87
ADP220ACBZ-1812R7TR-ND	Regulator LDO 200mA, 1.8V/1.2V ***NEW!***	6-WLCSP	2227.20/3,000		
ADP220ACBZ-1827R7CT-ND	Regulator LDO 200mA, 1.8V/2.7V ***NEW!***	6-WLCSP	1.45	1.16	.87
ADP220ACBZ-1827R7TR-ND	Regulator LDO 200mA, 1.8V/2.7V ***NEW!***	6-WLCSP	2227.20/3,000		
ADP220ACBZ-2623R7CT-ND	Regulator LDO 200mA, 2.6V/2.3V ***NEW!***	6-WLCSP	1.45	1.16	.87
ADP220ACBZ-2623R7TR-ND	Regulator LDO 200mA, 2.6V/2.3V ***NEW!***	6-WLCSP	2227.20/3,000		
ADP220ACBZ-26235R7CT-ND	Regulator LDO 200mA, 2.6V/2.35V ***NEW!***	6-WLCSP	1.45	1.16	.87
ADP220ACBZ-26235R7TR-ND	Regulator LDO 200mA, 2.6V/2.35V ***NEW!***	6-WLCSP	2227.20/3,000		
ADP220ACBZ-2818R7CT-ND	Regulator LDO 200mA, 2.8V/1.8V ***NEW!***	6-WLCSP	1.45	1.16	.87
ADP220ACBZ-2818R7TR-ND	Regulator LDO 200mA, 2.8V/1.8V ***NEW!***	6-WLCSP	2227.20/3,000		
ADP667ANZ-ND	Regulator LDO 5V or Adj.	8-Dip	4.03	3.23	2.51
ADP667ARZ-ND	Regulator LDO 5V or Adj.	8-SOIC	3.85	3.08	2.40
ADP1706ARDZ-2.5-R7CT-ND	Regulator CMOS LDO, 1A, 2.5V	8-SOIC	2.73	2.18	1.64
ADP1706ARDZ-3.0-R7CT-ND	Regulator CMOS LDO, 1A, 3.0V	8-SOIC	2.73	2.18	1.64
ADP1706ARDZ-3.3-R7CT-ND	Regulator CMOS LDO, 1A, 3.3V	8-SOIC	2.73	2.18	1.64
ADP1706ARDZ-3.3-R7TR-ND	Regulator CMOS LDO, 1A, 3.3V	8-SOIC	1389.75/1,000		
ADP1706-3.3-EVALZ-ND	Evaluation Board for ADP1706-3.3	—	75.90	—	—
ADP1707ARDZ-3.0-R7CT-ND	Regulator CMOS LDO, 1A, 3.0V	8-SOIC	2.80	2.24	1.68
ADP1707ARDZ-3.3-R7CT-ND	Regulator CMOS LDO, 1A, 3.3V	8-SOIC	2.80	2.24	1.68
ADP1707ARDZ-3.3-R7TR-ND	Regulator CMOS LDO, 1A, 3.3V	8-SOIC	1428.00/1,000		
ADP1707-3.3-EVALZ-ND	Evaluation Board for ADP1707-3.3	—	75.90	—	—
ADP1708ARDZ-R7CT-ND	Regulator CMOS LDO, 1A, Adj.	8-SOIC	2.73	2.18	1.64
ADP1708ARDZ-R7TR-ND	Regulator CMOS LDO, 1A, Adj.	8-SOIC	1389.75/1,000		
ADP1708-EVALZ-ND	Evaluation Board for ADP1708	—	75.90	—	—
ADP171AUJZ-R7CT-ND	Regulator CMOS LDO, 300mA, Adj.	TSOT-23-5	.99	.83	.66
ADP171AUJZ-R7TR-ND	Regulator CMOS LDO, 300mA, Adj.	TSOT-23-5	1287.00/3,000		
ADP1710AUJZ-R7CT-ND	Regulator CMOS LDO, 150mA	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-R7TR-ND	Regulator CMOS LDO, 150mA	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 150mA, 1.2V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 150mA, 1.2V	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.5-R7CT-ND	Regulator CMOS LDO, 150mA, 1.5V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 150mA, 1.8V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 150mA, 2.5V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 150mA, 3.0V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 150mA, 3.3V	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 150mA, 3.3V	TSOT-5	1599.00/3,000		
ADP1711AUJZ-0.75R7CT-ND	Regulator CMOS LDO, 150mA, 0.75V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-0.9-R7CT-ND	Regulator CMOS LDO, 150mA, 0.9V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-1.05R7CT-ND	Regulator CMOS LDO, 150mA, 1.05V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 150mA, 1.2V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-1.5-R7CT-ND	Regulator CMOS LDO, 150mA, 1.5V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 150mA, 1.8V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 150mA, 1.8V	TSOT-5	1755.00/3,000		
ADP1711AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 150mA, 2.5V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 150mA, 3.0V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 150mA, 3.3V	TSOT-5	1.35	1.13	.90
ADP1711AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 150mA, 3.3V	TSOT-5	1755.00/3,000		
ADP1712AUJZ-R7CT-ND	Regulator CMOS LDO, 300mA, Adj.	TSOT-5	1.41	1.18	.94
ADP1712AUJZ-R7TR-ND	Regulator CMOS LDO, 300mA, Adj.	TSOT-5	1833.00/3,000		
ADP1712AUJZ-1.0-R7CT-ND	Regulator CMOS LDO, 300mA, 1.0V	TSOT-5	1.41	1.18	.94
ADP1712AUJZ-1.0-R7TR-ND	Regulator CMOS LDO, 300mA, 1.0V	TSOT-5	1833.00/3,000		
ADP1712AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 300mA, 1.2V	TSOT-5	1.41	1.18	.94

ANALOG DEVICES DigiReel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP1712AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 300mA, 1.2V	TSOT-5	1833.00/3,000		
ADP1712AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 300mA, 1.8V	TSOT-5	1.41	1.18	.94
ADP1712AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 300mA, 1.8V	TSOT-5	1833.00/3,000		
ADP1712AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 300mA, 2.5V	TSOT-5	1.41	1.18	.94
ADP1712AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 300mA, 3.0V	TSOT-5	1.41	1.18	.94
ADP1712-3.3-EVALZ-ND	Evaluation Board for ADP1712-3.3	—	75.90	—	—
ADP1712AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 300mA, 3.3V	TSOT-5	1.41	1.18	.94
ADP1712AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 300mA, 3.3V	TSOT-5	1833.00/3,000		
ADP1713AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 300mA, 1.2V	TSOT-5	1.47	1.23	.98
ADP1713AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 300mA, 1.2V	TSOT-5	1911.00/3,000		
ADP1713AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 300mA, 2.5V	TSOT-5	1.47	1.23	.98
ADP1713AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 300mA, 3.0V	TSOT-5	1.47	1.23	.98
ADP1713-3.3-EVALZ-ND	Evaluation Board for ADP1713	—	75.90	—	—
ADP1713AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 300mA, 3.3V	TSOT-5	1.47	1.23	.98
ADP1713AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 300mA, 3.3V	TSOT-5	1911.00/3,000		
ADP1714AUJZ-0.75R7CT-ND	Regulator CMOS LDO, 300mA, 0.75V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-0.75R7TR-ND	Regulator CMOS LDO, 300mA, 0.75V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-0.8-R7CT-ND	Regulator CMOS LDO, 300mA, 0.8V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-0.8-R7TR-ND	Regulator CMOS LDO, 300mA, 0.8V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-0.85R7CT-ND	Regulator CMOS LDO, 300mA, 0.85V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-0.85R7TR-ND	Regulator CMOS LDO, 300mA, 0.85V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-0.9-R7CT-ND	Regulator CMOS LDO, 300mA, 0.9V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-0.9-R7TR-ND	Regulator CMOS LDO, 300mA, 0.9V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-0.95R7CT-ND	Regulator CMOS LDO, 300mA, 0.95V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-0.95R7TR-ND	Regulator CMOS LDO, 300mA, 0.95V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.0-R7CT-ND	Regulator CMOS LDO, 300mA, 1.0V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.0-R7TR-ND	Regulator CMOS LDO, 300mA, 1.0V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.05R7CT-ND	Regulator CMOS LDO, 300mA, 1.05V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.05R7TR-ND	Regulator CMOS LDO, 300mA, 1.05V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.1-R7CT-ND	Regulator CMOS LDO, 300mA, 1.1V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.1-R7TR-ND	Regulator CMOS LDO, 300mA, 1.1V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.15R7CT-ND	Regulator CMOS LDO, 300mA, 1.15V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.15R7TR-ND	Regulator CMOS LDO, 300mA, 1.15V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.3-R7CT-ND	Regulator CMOS LDO, 300mA, 1.3V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.3-R7TR-ND	Regulator CMOS LDO, 300mA, 1.3V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.5-R7CT-ND	Regulator CMOS LDO, 300mA, 1.5V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-1.5-R7TR-ND	Regulator CMOS LDO, 300mA, 1.5V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 300mA, 1.8V	TSOT-5	1.28	1.02	.77
ADP1714AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 300mA, 2.5V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-2.5-R7TR-ND	Regulator CMOS LDO, 300mA, 2.5V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1714AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 300mA, 3.0V ***NEW!***	5-TSOT	1.28	1.02	.77
ADP1714AUJZ-3.0-R7TR-ND	Regulator CMOS LDO, 300mA, 3.0V ***NEW!***	5-TSOT	1958.40/3,000		
ADP1715-EVALZ-ND	Evaluation Board for ADP1715	—	75.90	—	—
ADP1715ARMZ-R7CT-ND	Regulator CMOS LDO, 500mA	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-R7TR-ND	Regulator CMOS LDO, 500mA	8-MSOP	1079.00/1,000		
ADP1715ARMZ-1.2-R7CT-ND	Regulator CMOS LDO, 500mA, 1.2V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-1.2-R7TR-ND	Regulator CMOS LDO, 500mA, 1.2V	8-MSOP	1079.00/1,000		
ADP1715ARMZ-1.3-R7CT-ND	Regulator CMOS LDO, 500mA, 1.3V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-1.5-R7CT-ND	Regulator CMOS LDO, 500mA, 1.5V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-1.8-R7CT-ND	Regulator CMOS LDO, 500mA, 1.8V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-1.8-R7TR-ND	Regulator CMOS LDO, 500mA, 1.8V	8-MSOP	1079.00/1,000		
ADP1715ARMZ-2.5-R7CT-ND	Regulator CMOS LDO, 500mA, 2.5V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-2.5-R7TR-ND	Regulator CMOS LDO, 500mA, 2.5V	8-MSOP	1079.00/1,000		
ADP1715ARMZ-3.0-R7CT-ND	Regulator CMOS LDO, 500mA, 3.0V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-3.3-R7CT-ND	Regulator CMOS LDO, 500mA, 3.3V	8-MSOP	2.08	1.66	1.25
ADP1715ARMZ-3.3-R7TR-ND	Regulator CMOS LDO, 500mA, 3.3V	8-MSOP	1079.00/1,000		
ADP1716ARMZ-0.8-R7CT-ND	Regulator CMOS LDO, 500mA, 0.8V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-1.0-R7CT-ND	Regulator CMOS LDO, 500mA, 1.0V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-1.1-R7CT-ND	Regulator CMOS LDO, 500mA, 1.1V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-1.2-R7CT-ND	Regulator CMOS LDO, 500mA, 1.2V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-1.3-R7CT-ND	Regulator CMOS LDO, 500mA, 1.3V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-1.5-R7CT-ND	Regulator CMOS LDO, 500mA, 1.5V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-2.5-R7CT-ND	Regulator CMOS LDO, 500mA, 2.5V	8-MSOP	2.43	1.94	1.46
ADP1716ARMZ-3.3-R7CT-ND	Regulator CMOS LDO, 500mA, 3.3V	8-MSOP	2.43	1.94	1.46
ADP1720-EVALZ-ND	Evaluation Board for ADP1720	—	75.90	—	—
ADP1720ARMZ-R7CT-ND	Regulator Micropower, 50mA, Adj.	8-MSOP	1.28	1.02	.77
ADP1720ARMZ-R7TR-ND	Regulator Micropower, 50mA, Adj.	8-MSOP	663.00/1,000		
ADP1720-3.3-EVALZ-ND	Evaluation Board for ADP1720-3.3	—	75.90	—	—
ADP1720ARMZ-3.3-R7CT-ND	Regulator Micropower, 50mA, 3.3V	8-MSOP	1.50	1.25	1.00
ADP1720ARMZ-3.3-R7TR-ND	Regulator Micropower, 50mA, 3.3V	8-MSOP	665.00/1,000		
ADP1720ARMZ-5-R7CT-ND	Regulator Micropower, 50mA, 5V	8-MSOP	1.50	1.25	1.00
ADP1720ARMZ-5-R7TR-ND	Regulator Micropower, 50mA, 5V	8-MSOP	665.00/1,000		
ADP1720-5-EVALZ-ND	Evaluation Board for ADP1720-5	—	75.90	—	—
ADP1740ACPZ-0.75R7CT-ND	Regulator Linear LDO .75V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-0.75R7TR-ND	Regulator Linear LDO .75V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-1.0-R7CT-ND	Regulator Linear LDO 1.0V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-1.0-R7TR-ND	Regulator Linear LDO 1.0V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-1.1-R7CT-ND	Regulator Linear LDO 1.1V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-1.1-R7TR-ND	Regulator Linear LDO 1.1V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-1.2-R7CT-ND	Regulator Linear LDO 1.2V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-1.2-R7TR-ND	Regulator Linear LDO 1.2V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-1.5-R7CT-ND	Regulator Linear LDO 1.5V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-1.5-R7TR-ND	Regulator Linear LDO 1.5V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-1.8-R7CT-ND	Regulator Linear LDO 1.8V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-1.8-R7TR-ND	Regulator Linear LDO 1.8V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1740ACPZ-2.5-R7CT-ND	Regulator Linear LDO 2.5V, 2A ***NEW!***	16-LFCSP	2.70	2.16	1.68
ADP1740ACPZ-2.5-R7TR-ND	Regulator Linear LDO 2.5V, 2A ***NEW!***	16-LFCSP	2295.00/1,500		
ADP1741ACPZ-R7CT-ND	Regulator LDO 2A, Adj.	16-LFCSP	2.70	2.16	1.68
ADP1741ACPZ-R7TR-ND	Regulator LDO 2A, Adj.	16-LFCSP	2295.00/1,500		
ADP1741-EVALZ-ND	Evaluation Board for ADP1741	—	75.00	—	—
ADP2504ACPZ-2.8-R7CT-ND	DC-DC Converter, 2.8V, 1A, 2.5MHz	10-LFCSP	3.15	2.52	1.96
ADP2504ACPZ-3.3-R7CT-ND	DC-DC Converter, 3.3V, 1A, 2.5MHz	10-LFCSP	3.15	2.52	1.96
ADP2504ACPZ-3.3-R7TR-ND	DC-DC Converter, 3.3V, 1A, 2.5MHz	10-LFCSP	2677.50/1,500		
ADP2504ACPZ-5.0-R7CT-ND	DC-DC Converter, 5V, 1A, 2.5MHz	10-LFCSP	3.15	2.52	1.96
ADP2504ACPZ-5.0-R7TR-ND	DC-DC Converter, 5V, 1A, 2.5MHz	10-LFCSP	2677.50/1,500		
ADP3050ARZ-3.3-ND	Regulator Step-Down, 200kHz, 1A, 3.3V	8-SOIC	4.07	3.26	2.54
ADP3300ARTZ2.7RCT-ND	Regulator LDO 2.7V, 50mA	SOT-23-6	1.58	1.26	.95
ADP3300ARTZ2.7RTR-ND	Regulator LDO 2.7V, 50mA	SOT-23-6	1958.40/3,000		
ADP3300ARTZ3.3RCT-ND	Regulator LDO 3.3V, 50mA	SOT-23-6	1.28	1.02	.77
ADP3300ARTZ3.3RTR-ND	Regulator LDO 3.3V, 50mA	SOT-23-6	1958.40/3,000		
ADP3300ARTZ-5REEL7CT-ND	Regulator LDO 5V, 50mA	SOT-23-6	1.28	1.02	.77
ADP3300ARTZ-5REEL7TR-ND	Regulator LDO 5V, 50mA	SOT-23-6	1958.40/3,000		
ADP3301ARZ-3.3-ND	Regulator LDO 3.3V, 100mA	8-SOIC	2.25	1.80	1.40
ADP3301ARZ-5-ND	Regulator LDO 5V, 100mA	8-SOIC	2.25	1.80	1.40
ADP3303ARZ-3.3-ND	Regulator LDO 3.3V, 200mA	8-SOIC	2.50	2.00	1.56
ADP3303ARZ-5-ND	Regulator LDO 5V, 200mA	8-SOIC	2.50	2.00	1.56

*** RoHS Compliant**

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ANALOG DEVICES Digi-Reel® *(Cont.)* POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP3309ARTZ-3.3-R7CT-ND	Regulator LDO 3.3V, 100mA	SOT-23-5	1.47	1.23	.98
ADP3309ARTZ-3.3-R7TR-ND	Regulator LDO 3.3V, 100mA	SOT-23-5	1911.00/3,000		
ADP3330ARTZ-2.5-R7CT-ND	Regulator LDO 2.5V, 200mA	SOT-23-6	1.55	1.24	.93
ADP3330ARTZ-2.5-R7TR-ND	Regulator LDO 2.5V, 200mA	SOT-23-6	2380.80/3,000		
ADP3330ARTZ3.3-RL7CT-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	1.55	1.24	.93
ADP3330ARTZ3.3-RL7TR-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	2380.80/3,000		
ADP3331ARTZ-REEL7CT-ND	Regulator LDO Adj. 200mA	SOT-23-6	1.55	1.24	.93
ADP3331ARTZ-REEL7TR-ND	Regulator LDO Adj. 200mA	SOT-23-6	2380.80/3,000		
ADP3333ARMZ-5-R7CT-ND	Regulator LDO 5.0V, 300mA	8-MSOP	2.08	1.66	1.25
ADP3333ARMZ-5-R7TR-ND	Regulator LDO 5.0V, 300mA	8-MSOP	1079.00/1,000		
ADP3334ARZ-ND	Regulator LDO Adj. 500mA	8-SOIC	2.18	1.74	1.31
ADP3335ACPZ-3.3-R7CT-ND	Regulator LDO 3.3V, 500mA	8-LFCSP	2.28	1.82	1.37
ADP3335ACPZ-3.3-R7TR-ND	Regulator LDO 3.3V, 500mA	8-LFCSP	1774.50/1,500		
ADP3335ARMZ-2.5-RLCT-ND	Regulator LDO 2.5V, 500mA	8-MSOP	2.30	1.84	1.38
ADP3335ARMZ-3.3-RLCT-ND	Regulator LDO 3.3V, 500mA	8-MSOP	2.30	1.84	1.38
ADP3335ARMZ-3.3-RLTR-ND	Regulator LDO 3.3V, 500mA	8-MSOP	3532.80/3,000		
ADP3336ARMZ-REEL7CT-ND	Regulator LDO 500mA, Adj.	8-MSOP	2.30	1.84	1.38
ADP3336ARMZ-REEL7TR-ND	Regulator LDO 500mA, Adj.	8-MSOP	1196.00/1,000		
ADP3338AKCZ-1.5-R7CT-ND	Regulator LDO 1A Precision 1.5V	SOT-223	2.48	1.98	1.54
ADP3338AKCZ-1.5-R7TR-ND	Regulator LDO 1A Precision 1.5V	SOT-223	715.00/500		
ADP3338AKCZ-1.8-R7CT-ND	Regulator LDO 1A Precision 1.8V	SOT-223	2.48	1.98	1.54
ADP3338AKCZ-1.8-R7TR-ND	Regulator LDO 1A Precision 1.8V	SOT-223	715.00/500		
ADP3338AKCZ-2.5RL7CT-ND	Regulator LDO 1A Precision 2.5V	SOT-223	2.48	1.98	1.54
ADP3338AKCZ-2.5RL7TR-ND	Regulator LDO 1A Precision 2.5V	SOT-223	715.00/500		
ADP3338AKCZ-3.3RL7CT-ND	Regulator LDO 1A Precision 3.3V	SOT-223	2.48	1.98	1.54
ADP3338AKCZ-3.3RL7TR-ND	Regulator LDO 1A Precision 3.3V	SOT-223	715.00/500		
ADP3338AKCZ-5-R7CT-ND	Regulator LDO 1A Precision 5V	SOT-223	2.48	1.98	1.54
ADP3338AKCZ-5-R7TR-ND	Regulator LDO 1A Precision 5V	SOT-223	715.00/500		
ADP3339AKCZ-1.5-R7CT-ND	Regulator LDO 1.5A, 1.5V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-1.5-R7TR-ND	Regulator LDO 1.5A, 1.5V	SOT-223	767.00/500		
ADP3339AKCZ-1.8-R7CT-ND	Regulator LDO 1.5A, 1.8V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-1.8-R7TR-ND	Regulator LDO 1.5A, 1.8V	SOT-223	767.00/500		
ADP3339AKCZ-2.5-R7CT-ND	Regulator LDO 1.5A, 2.5V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-2.5-R7TR-ND	Regulator LDO 1.5A, 2.5V	SOT-223	767.00/500		
ADP3339AKCZ-3-RL7CT-ND	Regulator LDO 1.5A, 3V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-3-RL7TR-ND	Regulator LDO 1.5A, 3V	SOT-223	767.00/500		
ADP3339AKCZ-3.3-R7CT-ND	Regulator LDO 1.5A, 3.3V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-3.3-R7TR-ND	Regulator LDO 1.5A, 3.3V	SOT-223	767.00/500		
ADP3339AKCZ-5-R7CT-ND	Regulator LDO 1.5A, 5V	SOT-223	2.66	2.13	1.66
ADP3339AKCZ-5-R7TR-ND	Regulator LDO 1.5A, 5V	SOT-223	767.00/500		
ADP3367ARZ-ND	Regulator LDO Adjustable 5V	8-SOIC	4.07	3.26	2.54
ADP5020ACPZ-R7CT-ND	Regulator LDO Dual, Step-Down ***NEW!***	20-LFCSP	3.38	2.70	2.10
ADP5020ACPZ-R7TR-ND	Regulator LDO Dual, Step-Down ***NEW!***	20-LFCSP	2868.75/1,500		

Voltage Reference

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD580JH-ND	Precision Voltage Reference 2.5V*	TO-52-3	6.04	4.84	4.08
AD580LH-ND	Precision Voltage Reference 2.5V*	TO-52-3	13.98	12.59	11.16
AD580TH-ND	Precision Voltage Reference 2.5V*	TO-52-3	24.08	22.47	20.87
AD581JH-ND	Precision Voltage Reference 10V*	TO-5-3	9.24	7.40	6.24
AD581KH-ND	Precision Voltage Reference 10V*	TO-5-3	12.08	10.88	9.65
AD581LH-ND	Precision Voltage Reference 10V*	TO-5-3	22.14	20.67	19.19
AD584JH-ND	Precision Voltage Reference Programmable	TO-99-8	9.08	8.18	7.25
AD584JNZ-ND	Precision Voltage Reference Programmable*	8-Dip	6.36	5.09	4.30
AD584KNZ-ND	Precision Voltage Reference Programmable*	8-Dip	10.41	9.38	8.32
AD584TH-ND	Precision Voltage Reference Programmable	TO-99-8	33.53	31.29	29.06
AD586ARZ-REELCT-ND	Precision Voltage Reference 5V*	8-SOIC	8.40	7.56	6.71
AD586ARZ-REELTR-ND	Precision Voltage Reference 5V*	8-SOIC	15309.00/2,500		
AD586BRZ-ND	Precision Voltage Reference 5V*	8-SOIC	11.68	10.52	9.33
AD586BRZ-REELCT-ND	Precision Voltage Reference 5V*	8-SOIC	11.68	10.52	9.33
AD586JRZ-ND	Precision Voltage Reference 5V*	8-SOIC	6.08	4.87	4.11
AD586KNZ-ND	Precision Voltage Reference 5V*	8-Dip	7.38	5.91	4.99
AD586KRZ-ND	Precision Voltage Reference 5V*	8-SOIC	8.02	6.42	5.42
AD586LRZ-ND	Precision Voltage Reference 5V*	8-SOIC	9.16	8.25	7.32
AD586MNZ-ND	Precision Voltage Reference 5V*	8-Dip	9.88	8.90	7.89
AD587JNZ-ND	Precision Voltage Reference 10V*	8-Dip	5.34	4.28	3.61
AD587JRZ-ND	Precision Voltage Reference 10V*	8-SOIC	6.08	4.87	4.11
AD587KRZ-ND	Precision Voltage Reference 10V*	8-SOIC	6.90	5.52	4.66
AD588AQ-ND	Precision Voltage Reference Programmable	16-Dip	26.87	25.08	23.29
AD588JQ-ND	Precision Voltage Reference Programmable	16-Dip	23.04	21.51	19.97
AD589JH-ND	Voltage Reference 1.235V, 2-Terminal*	TO-51-2	8.56	6.85	5.78
AD589JRZ-ND	Voltage Reference 1.235V, 2-Terminal*	8-SOIC	3.83	3.06	2.38
AD589KH-ND	Voltage Reference 1.235V, 2-Terminal	TO-51-2	9.30	7.44	6.28
AD680ANZ-ND	Voltage Reference 2.5V, Low Power*	8-Dip	6.52	5.22	4.41
AD680JR-REEL7CT-ND	Voltage Reference 2.5V Low Power	8-SOIC	5.02	4.02	3.13
AD680JRZ-ND	Voltage Reference 2.5V Low Power*	8-SOIC	4.16	3.33	2.59
AD680JTZ-ND	Voltage Reference 2.5V Low Power*	TO-92-3	4.16	3.33	2.59
AD688AQ-ND	Precision Voltage Reference +/-10V	16-Dip	24.60	22.96	21.32
AD688BQ-ND	Precision Voltage Reference +/-10V	16-CDip	41.49	38.73	35.96
AD780ANZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-Dip	8.00	6.40	5.40
AD780ARZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	8.00	6.40	5.40
AD780BNZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-Dip	9.63	8.67	7.69
AD780BRZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	9.63	8.67	7.69
AD1580ARTZ-REEL7CT-ND	Voltage Reference 1.225V*	SOT-23	1.68	1.34	1.01
AD1580ARTZ-REEL7TR-ND	Voltage Reference 1.225V*	SOT-23	2572.80/3,000		
AD1580BRTZ-REEL7CT-ND	Voltage Reference 1.225V*	SOT-23	1.80	1.44	1.08
AD1580BRTZ-REEL7TR-ND	Voltage Reference 1.225V*	SOT-23	2764.80/3,000		
AD1582ARTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23	1.35	1.08	.81
AD1582ARTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23	2073.60/3,000		
AD1582BRTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23-3	1.88	1.50	1.13
AD1582BRTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23-3	2880.00/3,000		
AD1583ARTZ-REEL7CT-ND	Voltage Reference 3V*	SOT-23-3	1.35	1.08	.81
AD1583ARTZ-REEL7TR-ND	Voltage Reference 3V*	SOT-23-3	2073.60/3,000		
AD1583BRTZ-REEL7CT-ND	Voltage Reference 3V*	SOT-23	1.88	1.50	1.13
AD1583BRTZ-REEL7TR-ND	Voltage Reference 3V*	SOT-23	2880.00/3,000		
AD1584ARTZ-REEL7CT-ND	Voltage Reference 4.096V*	SOT-23-3	1.35	1.08	.81
AD1584ARTZ-REEL7TR-ND	Voltage Reference 4.096V*	SOT-23-3	2073.60/3,000		
AD1584BRTZ-REEL7CT-ND	Voltage Reference 4.096V*	SOT-23	1.88	1.50	1.13
AD1584BRTZ-REEL7TR-ND	Voltage Reference 4.096V*	SOT-23	2880.00/3,000		
ADR01ARZ-ND	Precision Voltage Reference 10V, 10mA*	8-SOIC	2.43	1.94	1.46
ADR01AUJZ-REEL7CT-ND	Precision Voltage Reference 10V, 10mA*	TSOT-23-5	2.45	1.96	1.47
ADR01AUJZ-REEL7TR-ND	Precision Voltage Reference 10V, 10mA*	TSOT-23-5	3763.20/3,000		
ADR01BRZ-ND	Precision Voltage Reference 10V, 10mA*	8-SOIC	5.09	4.07	3.17
ADR02AKSZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	2.48	1.98	1.54
ADR02AKSZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	4158.00/3,000		
ADR02ARZ-ND	Precision Voltage Reference 5V, 10mA*	8-SOIC	2.43	1.94	1.46
ADR02AUJZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	TSOT-23-5	2.45	1.96	1.47
ADR02AUJZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	TSOT-23-5	3763.20/3,000		
ADR02BKSZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	4.59	3.68	2.86

ANALOG DEVICES Digi-Reel® *(Cont.)* POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADR02BKSZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	7711.20/3,000		
ADR02BRZ-ND	Precision Voltage Reference 5V, 10mA*	8-SOIC	5.09	4.07	3.17
ADR02BUJZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	TSOT-23-5	4.59	3.68	2.86
ADR02BUJZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	TSOT-23-5	7711.20/3,000		
ADR03AKSZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	2.48	1.98	1.54
ADR03AKSZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	4158.00/3,000		
ADR03ARZ-ND	Precision Voltage Reference 2.5V, 10mA*	8-SOIC	2.43	1.94	1.46
ADR03AUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	2.45	1.96	1.47
ADR03AUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	3763.20/3,000		
ADR03BKSZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	4.59	3.68	2.86
ADR03BKSZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	7711.20/3,000		
ADR03BRZ-ND	Precision Voltage Reference 2.5V, 10mA*	8-SOIC	5.09	4.07	3.17
ADR03BUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	4.59	3.68	2.86
ADR03BUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	7711.20/3,000		
ADR06AKSZ-REEL7CT-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	2.48	1.98	1.54
ADR06AKSZ-REEL7TR-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	4158.00/3,000		
ADR06ARZ-ND	Precision Voltage Reference 3V, 10mA*	8-SOIC	2.43	1.94	1.46
ADR06BKSZ-REEL7CT-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	4.59	3.68	2.86
ADR06BKSZ-REEL7TR-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	7711.20/3,000		
ADR06BRZ-ND	Precision Voltage Reference 3V, 10mA*	8-SOIC	5.09	4.07	3.17
ADR121AUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V*	TSOT-23-6	2.30	1.84	1.38
ADR121AUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V*	TSOT-23-6	3532.80/3,000		
ADR125AUJZ-REEL7CT-ND	Precision Voltage Reference 5V*	TSOT-23-6	2.30	1.84	1.38
ADR125AUJZ-REEL7TR-ND	Precision Voltage Reference 5V*	TSOT-23-6	3532.80/3,000		
ADR127AUJZ-REEL7CT-ND	Precision Voltage Reference 1.25V*	TSOT-23-6	2.30	1.84	1.38
ADR127AUJZ-REEL7TR-ND	Precision Voltage Reference 1.25V*	TSOT-23-6	3532.80/3,000		
ADR130AUJZ-REEL7CT-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	2.30	1.84	1.38
ADR130AUJZ-REEL7TR-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	3532.80/3,000		
ADR130BUJZ-REEL7CT-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	3.40	2.72	2.12
ADR130BUJZ-REEL7TR-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	5707.80/3,000		
ADR280AKSZ-REEL7CT-ND	Voltage Reference High PSRR 1.2V*	SC70	1.95	1.56	1.17
ADR280AKSZ-REEL7TR-ND	Voltage Reference High PSRR 1.2V*	SC70	2995.20/3,000		
ADR280ARTZ-REEL7CT-ND	Voltage Reference High PSRR 1.2V*	SOT-23	1.95	1.56	1.17
ADR280ARTZ-REEL7TR-ND	Voltage Reference High PSRR 1.2V*	SOT-23	2995.20/3,000		
ADR291ERZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	9.43	8.49	7.53
ADR291FRZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	5.12	4.10	3.46
ADR291GRUZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-TSSOP	5.33	4.27	3.32
ADR291GRZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	4.10	3.28	2.55
ADR292ERZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-SOIC	9.43	8.49	7.53
ADR292GRZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-SOIC	4.10	3.28	2.55
ADR292GRUZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-TSSOP	5.33	4.27	3.32
ADR293GRZ-ND	Precision Voltage Reference 5V*	8-SOIC	4.28	3.42	2.66
ADR293ERZ-ND	Precision Voltage Reference 5V*	8-SOIC	9.43	8.49	7.53
ADR360AUJZ-R2CT-ND	Precision Reference Low Power 2.048V*	5-TSOT	2.63	2.10	1.58
ADR360AUJZ-R2TR-ND	Precision Reference Low Power 2.048V*	5-TSOT	349.13/250		
ADR360BUJZ-R2CT-ND	Precision Reference Low Power 2.048V*	5-TSOT	3.60	2.88	2.24
ADR360BUJZ-R2TR-ND	Precision Reference Low Power 2.048V*	5-TSOT	532.00/250		
ADR361AUJZ-R2CT-ND	Precision Reference Low Power 2.5V*	5-TSOT	2.38	1.90	1.43
ADR361AUJZ-R2TR-ND	Precision Reference Low Power 2.5V*	5-TSOT	332.50/250		
ADR363BUJZ-R2CT-ND	Precision Reference Low Power 3V*	5-TSOT	3.40	2.72	2.12
ADR363BUJZ-R2TR-ND	Precision Reference Low Power 3V*	5-TSOT	502.08/250		
ADR365AUJZ-R2CT-ND	Precision Reference Low Power 5V*	5-TSOT	2.38	1.90	1.43
ADR365AUJZ-R2TR-ND	Precision Reference Low Power 5V*	5-TSOT	332.50/250		
ADR366AUJZ-R2CT-ND	Precision Reference Low Power 3.3V*	5-TSOT	2.38	1.90	1.43
ADR366AUJZ-R2TR-ND	Precision Reference Low Power 3.3V*	5-TSOT	332.50/250		
ADR366BUJZ-R2CT-ND	Precision Reference Low Power 3.3V*	5-TSOT	3.40	2.72	2.12
ADR366BUJZ-R2TR-ND	Precision Reference Low Power 3.3V*	5-TSOT	502.08/250		
ADR366WAUJZ-REEL7CT-ND	Precision Reference Low Power 3.3V*	5-TSOT	2.45	1.96	1.47
ADR370ARTZ-REEL7CT-ND	Precision Reference Low Power 2.048V*	SOT-23	1.88	1.50	1.13
ADR380ARTZ-REEL7CT-ND	Precision Voltage Reference 2.048V Low Drift*	SOT-23	1.70	1.36	1.02
ADR380ARTZ-REEL7TR-ND	Precision Voltage Reference 2.048V Low Drift*	SOT-23	2611.20/3,000		
ADR381ARTZ-REEL7CT-ND	Precision Voltage Reference 2.5V Low Drift*	SOT-23	1.70	1.36	1.02
ADR381ARTZ-REEL7TR-ND	Precision Voltage Reference 2.5V Low Drift*	SOT-23	2611.20/3,000		
ADR390BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.048V*	TSOT-23-5	2.42	1.94	1.64
ADR391AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	2.00	1.60	1.20
ADR391AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	3072.00/3,000		
ADR391BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	2.77	2.22	1.73
ADR391BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	4649.40/3,000		
ADR392AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	2.00	1.60	1.20
ADR392AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	3072.00/3,000		
ADR392BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	2.77	2.22	1.73
ADR392BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	4649.40/3,000		
ADR392WBUJZ-R7CT-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	3.47	2.78	2.16
ADR392WBUJZ-R7TR-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	5821.20/3,000		
ADR395AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	2.00	1.60	1.20
ADR395AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	3072.00/3,000		
ADR395BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	2.77	2.22	1.73
ADR395BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	4649.40/3,000		
ADR420ARMZ-ND	Ultra-prec., LN Volt. Ref. 2.048V, 10mA*	8-MSOP	5.76	4.61	3.89
ADR420ARZ-ND	Precision Voltage Reference 2.048V, 10mA*	8-SOIC	5.76	4.61	3.89
ADR420BRZ-ND	Precision Voltage Reference 2.048V, 10mA*	8-SOIC	9.16	7.33	6.19
ADR421ARZ-ND	Precision Reference Low Noise 2.50V*	8-SOIC	5.76	4.61	3.89
ADR421ARMZ-ND	Precision Reference Low Noise 2.50V*	8-MSOP	5.76	4.61	3.89
ADR421BRZ-ND	Precision Reference Low Noise 2.50V*	8-SOIC	9.16	7.33	6.19
ADR423ARZ-ND	Precision Voltage Reference 3V, 10mA Out*	8-SOIC	5.76	4.61	3.89
ADR425ARMZ-ND	Ultra-prec., LN Voltage Ref. 5V, 10mA*	8-MSOP	5.76	4.61	3.89
ADR425ARZ-ND	Precision Voltage Reference 5V, 10mA Out*	8-SOIC	5.76	4.61	3.89
ADR425BRZ-ND	Precision Voltage Reference 5V, 10mA Out*	8-SOIC	9.16	7.33	6.19
ADR430ARMZ-ND	2.048V, XFET® Voltage Reference*	8-MSOP	5.92	4.74	4.00
ADR430BRZ-ND	2.048V, XFET® Voltage Reference*	8-SOIC	9.00	7.20	6.08
ADR431ARMZ-ND	2.5V, XFET® Voltage Reference*	8-MSOP	5.92	4.74	4.00
ADR431ARZ-ND	2.5V, XFET® Voltage Reference*	8-SOIC	5.92	4.74	4.00
ADR431BRZ-ND	2.5V, XFET® Voltage Reference*	8-SOIC	8.82	7.06	5.96
ADR433ARMZ-ND	3V, XFET® Voltage Reference*	8-MSOP	5.92	4.74	4.00
ADR433BRZ-ND	3V, XFET® Voltage Reference*	8-SOIC	8.82	7.06	5.96
ADR434ARMZ-ND	4.096V, XFET® Voltage Reference*	8-MSOP	5.92	4.74	4.00
ADR434ARZ-ND	4.096V, XFET® Voltage Reference*	8-SOIC	8.82	7.06	5.96
ADR434BRZ-ND	4.096V, XFET® Voltage Reference*	8-SOIC	8.82	7.06	5.96
ADR435ARZ-ND	5V, XFET® Voltage Reference*	8-SOIC	5.92	4.74	4.00
ADR435ARMZ-ND	5V, XFET® Voltage Reference*	8-MSOP	5.92	4.74	4.00
ADR435BRZ-ND	5V, XFET® Voltage Reference*	8-SOIC	8.82	7.06	5.96
ADR440ARMZ-ND	2.048V LDO XFET® Voltage Reference*	8-MSOP	5.36	4.29	3.62
ADR440BRZ-ND	2.048V LDO XFET® Voltage Reference*	8-SOIC	7.00	5.60	4.73
ADR441ARMZ-ND	2.5V LDO XFET® Voltage Reference*	8-MSOP	5.36	4.29	3.62
ADR441ARZ-ND	2.5V LDO XFET® Voltage Reference*	8-SOIC	5.06	4.05	3.42
ADR441BRZ-ND	2.5V LDO XFET® Voltage Reference*	8-SOIC	7.00	5.60	4.73
ADR443ARZ-ND	3V, LDO XFET® Voltage Reference*	8-SOIC	5.06	4.05	3.42

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ANALOG DEVICES DigiReel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADR443BRZ-ND	3V, LDO XFET® Voltage Reference*	8-SOIC	7.00	5.60	4.73
ADR444ARMZ-ND	4.096V, LDO XFET® Reference*	8-MSOP	5.36	4.29	3.62
ADR444ARZ-ND	4.096V, LDO XFET® Reference*	8-SOIC	5.06	4.05	3.42
ADR444BRZ-ND	4.096V, LDO XFET® Voltage Reference*	8-SOIC	7.00	5.60	4.73
ADR445ARMZ-ND	5V, LDO XFET® Voltage Reference*	8-MSOP	5.36	4.29	3.62
ADR445ARZ-ND	5V, LDO XFET® Voltage Reference*	8-SOIC	5.06	4.05	3.42
ADR445BRZ-ND	5V, LDO XFET® Voltage Reference*	8-SOIC	7.00	5.60	4.73
ADR5044ARTZ-REEL7CT-ND	4.096V Precision Reference Shunt*	SOT-23-3	.90	.75	.60
ADR5044ARTZ-REEL7TR-ND	4.096V Precision Reference Shunt*	SOT-23-3	1170.00/3,000		
ADR510ARTZ-REEL7CT-ND	1V, Precision Reference Shunt*	SOT-23-3	1.53	1.22	.92
ADR510ARTZ-REEL7TR-ND	1V, Precision Reference Shunt*	SOT-23-3	2342.40/3,000		
ADR512ARTZ-REEL7CT-ND	1.2V, Precision Reference Shunt*	SOT-23-3	1.33	1.06	.80
ADR512ARTZ-REEL7TR-ND	1.2V, Precision Reference Shunt*	SOT-23-3	2035.20/3,000		
ADR520ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	1.26	1.05	.84
ADR520ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	1638.00/3,000		
ADR520BRTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	1.98	1.58	1.19
ADR525ART-R2CT-ND	Voltage Reference Shunt 2.5V	SOT-23	1.44	1.20	.96
ADR525ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SOT-23-3	1.29	1.08	.86
ADR525ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SOT-23-3	1677.00/3,000		
ADR525BKSZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SC-70-3	2.20	1.76	1.32
ADR525BKSZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SC-70-3	1677.00/3,000		
ADR525BRTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SOT-23	2.03	1.62	1.22
ADR525BRTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SOT-23	3110.40/3,000		
ADR530BKSZ-REEL7CT-ND	Voltage Reference Shunt 3.0V*	SC-70-3	2.20	1.76	1.32
ADR530BKSZ-REEL7TR-ND	Voltage Reference Shunt 3.0V*	SC-70-3	3379.20/3,000		
ADR530BRTZ-REEL7CT-ND	Voltage Reference Shunt 3.0V*	SOT-23	2.03	1.62	1.22
ADR530BRTZ-REEL7TR-ND	Voltage Reference Shunt 3.0V*	SOT-23	3110.40/3,000		
ADR550BRTZ-REEL7CT-ND	Voltage Reference Shunt 5.0V*	SOT-23	2.03	1.62	1.22
ADR550BRTZ-REEL7TR-ND	Voltage Reference Shunt 5.0V*	SOT-23	3110.40/3,000		
ADR821ARMZ-REEL7CT-ND	2.5V, LP, Precision Reference and Op Amp*	10-MSOP	2.78	2.22	1.67
ADR821BRMZ-REEL7CT-ND	2.5V, LP, Precision Reference and Op Amp*	10-MSOP	3.26	2.61	2.03
ADR827ARMZ-REEL7CT-ND	1.25V, LP, Precision Reference and Op Amp*	10-MSOP	2.78	2.22	1.67
ADR827BRMZ-REEL7CT-ND	1.25V, LP, Precision Reference and Op Amp*	10-MSOP	3.26	2.61	2.03
ADR1581ARTZ-REEL7CT-ND	Voltage Reference Shunt 1.25V*	SOT-23-3	1.53	1.22	.92
ADR1581ARTZ-REEL7TR-ND	Voltage Reference Shunt 1.25V*	SOT-23-3	2342.40/3,000		
ADR5040ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	.90	.75	.60
ADR5040ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	1170.00/3,000		
ADR5041ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SOT-23	.90	.75	.60
ADR5041ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SOT-23	1170.00/3,000		
ADR5041BKSZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SC70	1.44	1.20	.96
ADR5041BKSZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SC70	1872.00/3,000		
REF01CPZ-ND	Precision Voltage Reference 10V*	8-Dip	2.52	2.02	1.57
REF01CSZ-ND	Precision Voltage Reference 10V*	8-SOIC	2.43	1.95	1.52
REF01EZ-ND	Precision Voltage Reference 10V*	8-CDip	10.05	9.05	8.02
REF01HPZ-ND	Precision Voltage Reference 10V*	8-Dip	3.85	3.08	2.40
REF02AZ-ND	Prec. Voltage Reference/Temp. 5V Transducer*	8-CDip	31.68	29.57	27.46
REF02CPZ-ND	Precision Voltage Reference 5V*	8-Dip	2.52	2.02	1.57
REF02CSZ-ND	Precision Voltage Reference 5V*	8-SOIC	2.43	1.95	1.52
REF02EZADI-ND	Precision Voltage Reference 5V*	8-CDip	10.05	9.05	8.02
REF02HPZ-ND	Precision Voltage Reference 5V*	8-Dip	3.85	3.08	2.40
REF02HSZ-ND	Precision Voltage Reference 5V*	8-SOIC	4.28	3.42	2.66
REF03GPZ-ND	Precision Voltage Reference 2.5V*	8-Dip	2.59	2.07	1.61
REF03GSZ-ND	Precision Voltage Reference 2.5V*	8-SOIC	2.43	1.95	1.52
REF43GPZ-ND	Precision Voltage Reference Low Power 2.5V*	8-Dip	7.70	6.16	5.20
REF43GSZ-ND	Precision Voltage Reference Low Power 2.5V*	8-SOIC	7.70	6.16	5.20
REF191ESZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	5.02	4.02	3.13
REF191GSZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	2.79	2.24	1.74
REF192ESZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	5.02	4.02	3.13
REF192FSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	3.89	3.12	2.43
REF192GPZ-ND	Voltage Reference LDO 2.5V*	8-Dip	2.79	2.24	1.74
REF192GRUZ-ND	Voltage Reference LDO 2.5V*	8-TSSOP	4.41	3.53	2.75
REF192GRUZREEL7CT-ND	Voltage Reference LDO 2.5V*	8-TSSOP	4.41	3.53	2.75
REF192GSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	2.79	2.24	1.74
REF193GSZ-ND	Voltage Reference LDO 3V*	8-SOIC	2.79	2.24	1.74
REF194ESZ-ND	Voltage Reference LDO 4.5V*	8-SOIC	4.57	3.66	2.85
REF194GSZ-ND	Voltage Reference LDO 4.5V*	8-SOIC	2.79	2.24	1.74
REF195ESZ-ND	Voltage Reference LDO 5V*	8-SOIC	4.57	3.66	2.85
REF195FSZ-ND	Voltage Reference LDO 5V*	8-SOIC	3.53	2.83	2.20
REF195FS-REELCT-ND	Voltage Reference LDO 5V	8-SOIC	4.21	3.37	2.62
REF195GPZ-ND	Voltage Reference LDO 5V*	8-Dip	2.54	2.04	1.59
REF195GSZ-ND	Voltage Reference LDO 5V*	8-SOIC	2.79	2.24	1.74
REF196GSZ-ND	Voltage Reference LDO 3.3V*	8-SOIC	2.79	2.24	1.74
REF198ESZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	5.02	4.02	3.13
REF198FSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	3.89	3.12	2.43
REF198GRUZ-ND	Voltage Reference LDO 4.096V*	8-TSSOP	4.41	3.53	2.75
REF198GSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	2.79	2.24	1.74

ANALOG DEVICES DigiReel® WAVEFORM GENERATORS

RoHS Compliant

Sine/Tri/Square Waves

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5930YRUZ-ND	Programmable Freq. Sweep/Output Burst Waveform Gen.	20-TSSOP	11.28	10.16	9.01
AD5932YRUZ-ND	Programmable Single-Scan Generator	16-TSSOP	8.80	7.04	5.94
AD5933YRSZ-ND	1MSPS, 12-Bit Impedance Converter, Network Analyzer	16-SSOP	21.96	20.50	19.04
EVAL-AD5933EBZ-ND	Evaluation Board for AD5933	—	151.80	—	—
AD5934YRSZ-ND	250kSPS, 12-Bit Impedance Converter, Network Analyzer	16-SSOP	15.96	14.37	12.75
EVAL-AD5934EBZ-ND	Evaluation Board for AD5934	—	151.80	—	—
AD9833BRMZ-ND	Programmable Waveform Generator	10-MSOP	8.20	6.56	5.54

ANALOG DEVICES DigiReel® SENSOR/SIGNAL CONDITIONING

Energy Measurement

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD71056ARZ-ND	Energy Metering IC*	16-SOIC	2.63	2.11	1.64
ADE5169ASTZF62-ND	Single Phase Energy Meter*	64-LQFP	7.48	5.99	5.05
ADE5566ASTZF62-ND	Single Phase Energy Meter* ***NEW!***	64-LQFP	6.82	5.46	4.61
ADE7169ASTZF16-ND	Single Phase Energy Meter*	64-LQFP	6.90	5.52	4.66
ADE7518ASTZF16-ND	Single Phase Energy Meter*	64-LQFP	6.10	4.88	4.12
ADE7518ASTZF8-ND	Single Phase Energy Meter*	64-LQFP	5.76	4.61	3.89
ADE7753ARSZ-ND	Single Phase Multifunction Metering IC*	20-SSOP	4.61	3.69	2.87
EVAL-ADE7753ZEB-ND	Evaluation Board for ADE7753*	—	189.75	—	—
ADE7754ARZ-ND	Energy Meter with Serial*	24-SOIC	9.53	8.58	7.61
ADE7757ARNZ-ND	Energy Metering*	16-SOIC	2.84	2.27	1.77

ANALOG DEVICES DigiReel® (Cont.) SENSOR/SIGNAL CONDITIONING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADE7758ARWZ-ND	Energy Metering*	24-SOIC	11.95	10.76	9.54
ADE7759ARSZ-ND	Energy Meter with Sensor Interface*	20-SSOP	4.50	3.60	2.80
ADE7763ARSZ-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3.62	2.90	2.26
ADE7763ARSZRLCT-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3.62	2.90	2.26
ADE7763ARSZRLTR-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3079.13/1,500		

Temperature

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD590JF-ND	Temperature Transducer 2-Terminal*	2-CQFP	15.45	14.42	13.39
AD590JH-ND	Temperature Transducer 2-Terminal*	TO-52-3	8.48	6.79	5.73
AD590JRZ-ND	Temperature Transducer 2-Terminal*	8-SOIC	5.46	4.37	3.69
AD590KF-ND	Temperature Transducer 2-Terminal*	2-CQFP	16.89	15.77	14.64
AD590KH-ND	Temperature Transducer 2-Terminal*	TO-52-3	10.66	9.60	8.52
AD590KRZ-ND	Temperature Transducer 2-Terminal*	8-SOIC	9.04	7.24	6.11
AD590LF-ND	Temperature Transducer 2-Terminal*	2-CQFP	42.02	39.22	36.42
AD590LH-ND	Temperature Transducer 2-Terminal	TO-52-3	21.39	19.97	18.54
AD590MF-ND	Temperature Transducer 2-Terminal*	2-CQFP	77.18	72.03	66.89
AD590MH-ND	Temperature Transducer 2-Terminal*	TO-52-3	50.93	47.53	44.14
AD592ANZ-ND	Temperature Transducer 2-Terminal*	TO-92	4.82	3.86	3.00
AD592BNZ-ND	Temperature Transducer 2-Terminal*	TO-92	11.10	9.99	8.86
AD592CNZ-ND	Temperature Transducer 2-Terminal*	TO-92	14.78	13.31	11.80
AD594AQ-ND	Thermocouple Amp with Compensator	14-Dip	12.35	11.12	9.86
AD594CQ-ND	Thermocouple Amp with Compensator	14-Dip	20.07	18.74	17.40
AD595AQ-ND	Thermocouple Amp with Compensator	14-Dip	12.35	11.12	9.86
AD595CQ-ND	Thermocouple Amp with Compensator	14-Dip	20.07	18.74	17.40
AD596AHZ-ND	Thermocouple Conditioning*	TO-100	13.33	12.00	10.64
AD597AHZ-ND	Thermocouple Conditioning*	TO-100	14.36	12.93	11.47
AD597ARZ-ND	Thermocouple Conditioning*	8-SOIC	5.94	4.76	4.01
AD22100ARZ-ND	Temperature Sensor Voltage Out*	8-SOIC	5.60	4.48	3.78
AD22100ATZ-ND	Temperature Sensor Voltage Out*	TO-92-3	5.08	4.07	3.43
AD22100KTZ-ND	Temperature Sensor Voltage Out*	TO-92-3	3.40	2.72	2.12
AD22100SRZ-ND	Temperature Sensor Voltage Out*	8-SOIC	6.16	4.93	4.16
AD22100STZ-ND	Temperature Sensor Voltage Out*	TO-92-3	5.60	4.48	3.78
AD22103KRZ-ND	Temperature Sensor Voltage Out*	8-SOIC	3.40	2.72	2.12
AD22105ARZ-ND	Thermostatic Switch Solid State*	8-SOIC	2.99	2.40	1.87
AD7314ARMZ-ND	Temperature Sensor 10-Bit Digital*	8-MSOP	1.65	1.32	.99
AD7414ARM0REEL7CT-ND	Temperature Sensor 10-Bit Digital	8-MSOP	2.99	2.40	1.87
AD7414ARMZ-0-ND	Temperature Sensor 10-Bit Digital*	8-MSOP	2.52	2.02	1.57
AD7414ARTZ0500RCT-ND	Temperature Sensor 10-Bit*	SOT-23-6	2.34	1.88	1.46
AD7414ARTZ0500RTR-ND	Temperature Sensor 10-Bit*	SOT-23-6	676.00/500		
AD7414ARTZ-1REEL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-6	2.60	2.08	1.56
AD7414ARTZ-1REEL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-6	3931.20/3,000		
AD7415ARTZ-0500RL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-5	2.34	1.88	1.46
AD7415ARTZ-0500RL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-5	676.00/500		
AD7415ARTZ-1500RL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-5	2.34	1.88	1.46
AD7415ARTZ-1500RL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-5	676.00/500		
AD7416ARMZ-ND	Temperature Sensor 10-Bit*	8-MSOP	2.50	2.00	1.50
AD7417ARZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	16-SOIC	6.10	4.88	4.12
AD7417ARUZ-ND	Temperature Sensor 10-Bit/Four 1-Ch. ADCs*	16-TSSOP	6.10	4.88	4.12
AD7418ARMZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	8-MSOP	5.16	4.13	3.49
AD7418ARZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	8-SOIC	5.16	4.13	3.49
AD7814ARMZ-ND	Digital Temperature Sensor 10-Bit*	8-MSOP	2.48	1.98	1.54
AD7814ARTZ-REEL7CT-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	2.50	2.00	1.50
AD7814ARTZ-REEL7TR-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	3840.00/3,000		
AD22103KTZ-ND	Temperature Sensor 3.3V Signal Condition*	TO-92	3.24	2.60	2.02
AD22151YRZ-ND	Magnetic Field Sensor Linear*	8-SOIC	5.51	4.41	3.43
ADT7310TRZ-ND	Digital SPI Temperature Sensor 16-Bit* ***NEW!***	8-SOIC	3.15	2.52	1.96
ADT7410TRZ-ND	I^2C Temperature Sensor* ***NEW!***	8-SOIC	3.15	2.52	1.96
EVAL-ADT7X10EBZ-ND	Evaluation Board for ADT7410* ***NEW!***	—	150.00	—	—
ADT75ARMZ-ND	Digital Temperature Sensor 12-Bit*	8-MSOP	1.73	1.38	1.04
ADT75ARZ-ND	Digital Temperature Sensor 12-Bit*	8-SOIC	1.73	1.38	1.04
ADT75BRMZ-ND	Digital Temperature Sensor 12-Bit*	8-MSOP	2.43	1.94	1.46
ADT6401SRJZ-RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-6	1.50	1.20	.90
ADT6401SRJZ-RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-6	2304.00/3,000		
ADT6402SRJZ-RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-6	1.50	1.20	.90
ADT6402SRJZ-RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-6	2304.00/3,000		
ADT6501SRJZP065RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.50	1.25	1.00
ADT6501SRJZP075RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.50	1.25	1.00
ADT6501SRJZP105RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.50	1.25	1.00
ADT6503SRJZN025RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.50	1.25	1.00
ADT6504SRJZN015RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.50	1.25	1.00
ADT7301ARMZ-ND	Digital Temperature Sensor 13-Bit*	8-MSOP	2.75	2.20	1.71
ADT7301ARTZ-REEL7CT-ND	Digital Temperature Sensor 13-Bit*	SOT-23-6	2.72	2.18	1.70
ADT7301ARTZ-REEL7TR-ND	Digital Temperature Sensor 13-Bit*	SOT-23-6	4573.80/3,000		
ADT7302ARMZ-ND	Micropower Digital Temperature Sensor 13-Bit*	8-MSOP	1.95	1.56	1.17
ADT7302ARTZ-REEL7CT-ND	Micropower Digital Temperature Sensor 13-Bit*	SOT-23-6	1.95	1.56	1.17
ADT7302ARTZ-REEL7TR-ND	Micropower Digital Temperature Sensor 13-Bit*	SOT-23-6	2995.20/3,000		
ADT7408CCPZ-REEL7CT-ND	Digital Temperature Sensor 12-Bit*	8-LFCSP	2.18	1.74	1.31
EVAL-ADT7411EB-ND	Evaluation Board for ADT7411	—	164.06	—	—
ADT7470ARQZ-ND	Temperature Sensor Hub/Fan Controller*	16-QSOP	4.91	3.93	3.06
ADT7517ARQZ-ND	SPI/I^2C Compatible, Temp. Sensor, 4-Channel ADC and Quad Voltage DAC*	16-QSOP	7.74	6.20	5.23
ADT7518ARQZ-ND	SPI/I^2C Compatible, Temp. Sensor, 4-Channel ADC and Quad Voltage DAC*	16-QSOP	8.22	6.58	5.55
TMP01ESZ-ND	Temperature Sensor/Controller*	8-SOIC	9.44	7.56	6.38
TMP01FPZ-ND	Temperature Sensor/Controller*	8-Dip	5.76	4.61	3.89
TMP01FSZ-ND	Temperature Sensor/Controller*	8-SOIC	5.81	4.65	3.62
TMP03FT9Z-ND	Thermometer Serial Digital Out*	TO-92	6.30	5.04	4.26
TMP04FSZ-ND	Temperature Sensor/Serial*	8-SOIC	6.30	5.04	4.26
TMP04FS-REELCT-ND	Temperature Sensor/Serial	8-SOIC	6.90	5.52	4.66
TMP04FT9Z-ND	Temperature Sensor/Serial*	TO-92	6.30	5.04	4.26
TMP05AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	1.75	1.40	1.05
TMP05AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	472.50/500		
TMP05ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	1.75	1.40	1.05
TMP05ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	472.50/500		
TMP05BKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	2.43	1.94	1.46
TMP05BKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	654.75/500		
TMP05BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.43	1.94	1.46
TMP05BRTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	654.75/500		
TMP06AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	1.73	1.38	1.04
TMP06AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	465.75/500		
TMP06ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	1.73	1.38	1.04
TMP06ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	465.75/500		
TMP06BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.18	1.75	1.36
TMP17GSZ-ND	Temperature Transducer 4V to 30V*	8-SOIC	3.35	2.69	2.09
TMP35GRTZ-REEL7CT-ND	Temperature Sensor 2.7V to 5V*	SOT-23-5	1.35	1.13	.90
TMP35GRTZ-REEL7TR-ND	Temperature Sensor 2.7V to 5V*	SOT-23-5	1755.00/3,000		
TMP35GT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.35	1.13	.90

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ANALOG DEVICES DigiReel® *(Cont.)*

SENSOR/SIGNAL CONDITIONING

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TMP36FSZ-ND	Temperature Sensor 2.7V to 5.5V*	8-SOIC	1.65	1.32	.99
TMP36GRTZ-REEL7CT-ND	Temperature Sensor 2.7V to 5.5V*	SOT-23-5	1.35	1.13	.90
TMP36GRTZ-REEL7TR-ND	Temperature Sensor 2.7V to 5.5V*	SOT-23-5	1755.00/3,000		
TMP36GSZ-ND	Temperature Sensor 2.7V to 5.5V*	8-SOIC	1.35	1.13	.90
TMP36GT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.35	1.13	.90
TMP37FT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.35	1.13	.90
Transmitter					
AD693AD-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	24.33	22.71	21.09
AD693AQ-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	15.96	14.37	12.75
AD694ARZ-ND	Transmitter 4-20mA*	16-SOIC	10.05	9.05	8.02
AD694BRZ-ND	Transmitter 4-20mA*	16-SOIC	16.06	14.46	12.83
AD694JNZ-ND	Transmitter 4-20mA*	16-Dip	10.91	9.83	8.72

ANALOG DEVICES

SIGNAL PROCESSOR — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9826KRSZ-ND	16-Bit Image Signal Processor	28-SSOP	9.40	8.46	7.51

ANALOG DEVICES

SPECIALIZED IC

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD5522JSVDZ-ND	Quad Parametric Measurement Unit	80-TQFP	59.88	55.89	51.90
AD7400AYNSZ-ND	Isolated Sigma-Delta Modulator	8-Dip	8.28	6.63	5.59
AD7400AYRWZ-ND	Isolated Sigma-Delta Modulator	16-SOIC	8.20	6.56	5.54
AD7401AYRWZ-ND	Isolated Sigma-Delta Modulator	16-SOIC	8.20	6.56	5.54
AD8383ACPZ-ND	10-Bit, 6-Channel Decimating LCD DecDriver®	48-LFCSP	8.14	6.52	5.50
AD8384ASVZ-ND	10-Bit, 6-Channel Decimating LCD DecDriver®	80-TQFP	8.60	7.74	6.87
AD9856ASTZ-ND	Quad Digital Up Converter	48-TQFP	26.15	24.41	22.66
AD9857ASTZ-ND	Quad Digital Up Converter	80-LQFP	25.23	23.55	21.87
AD73311ARSZ-ND	Analog Front End Low Power	20-SSOP	8.02	6.42	5.42
AD73311ARZ-ND	Analog Front End Low Power	20-SOIC	8.02	6.42	5.42
AD96685BRZ-ND	Ultrafast Comparator	16-SOIC	5.96	4.77	4.03
ADP5587ACPZ-R7CT-ND	I/O Expander and QWERTY Keypad Controller ***NEW!***	24-LFCSP	2.59	2.07	1.61
ADP5587ACPZ-R7TR-ND	I/O Expander and QWERTY Keypad Controller ***NEW!***	24-LFCSP	2199.38/1,500		
ADP5588ACPZ-R7CT-ND	Keypad I/O Expander	24-LFCSP	2.70	2.16	1.68
ADP5588ACPZ-R7TR-ND	Keypad I/O Expander	24-LFCSP	2295.00/1,500		
ADUC7036BCPZ-ND	Integrated Prec. Battery Sensor for Auto	48-LFCSP	11.20	10.08	8.94

ANALOG DEVICES DigiReel®

SUPERVISORY CIRCUITS AND RESET GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM690AARNZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	3.56	2.85	2.22
ADM690ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.36	1.89	1.47
ADM691AANZ-ND	Supervisor MPU 4.65V, 250mA*	16-Dip	3.92	3.14	2.44
ADM691AARNZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	3.92	3.14	2.44
ADM691AARWZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	3.92	3.14	2.44
ADM691AARW-REELCT-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	4.52	3.62	2.82
ADM691ANZ-ND	Supervisor MPU 4.65V, 100mA*	16-Dip	3.33	2.67	2.08
ADM691ARZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	2.86	2.29	1.78
ADM691ARZ-REEL7TR-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	675.64/400		
ADM693ANZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-Dip	2.36	1.89	1.47
ADM693ARZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-SOIC	2.36	1.89	1.47
ADM694ANZ-ND	Supervisor MPU 4.65V, 100mA*	8-Dip	2.36	1.89	1.47
ADM695ANZ-ND	Supervisor MPU 4.65V, 100mA*	16-Dip	2.36	1.89	1.47
ADM695ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	2.36	1.89	1.47
ADM696ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	2.36	1.89	1.47
ADM699ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.23	1.78	1.34
ADM699ARZ-ND	Supervisor MPU 4.65V Watchdog*	16-SOIC	2.23	1.78	1.34
ADM699AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	2.32	1.86	1.45
ADM699AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1313.25/1,000		
ADM705ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.27	1.82	1.42
ADM705ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM705AR-REEL7TR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1491.75/1,000		
ADM706ANZ-ND	Supervisor MPU 4.4V Watchdog*	8-Dip	2.00	1.60	1.20
ADM706ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM706RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM706SANZ-ND	Supervisor MPU 2.93V Watchdog*	8-Dip	2.27	1.82	1.42
ADM706SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM706TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM707ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.27	1.82	1.42
ADM707ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	2.27	1.82	1.42
ADM707AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	2.63	2.11	1.64
ADM708ANZ-ND	Supervisor MPU 4.4V Watchdog*	8-Dip	2.27	1.82	1.42
ADM708ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	2.00	1.60	1.20
ADM708RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	2.00	1.60	1.20
ADM708SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	2.00	1.60	1.20
ADM708TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	2.00	1.60	1.20
ADM709LANZ-ND	Supervisor MPU 4.65V*	8-Dip	1.68	1.34	1.01
ADM709LARZ-ND	Supervisor MPU 4.65V*	8-SOIC	1.68	1.34	1.01
ADM803TAKSZ-REEL7CT-ND	Supervisor MPU 3.08V*	SC-70-3	.75	.63	.50
ADM803TAKSZ-REEL7TR-ND	Supervisor MPU 3.08V*	SC-70-3	975.00/3,000		
ADM809-5SAKSZ-RL7CT-ND	Supervisor MPU 2.93V*	SC-70-3	1.58	1.26	.95
ADM809LARTZ-REEL7CT-ND	Supervisor MPU 4.63V*	SOT-23	1.58	1.26	.95
ADM809LARTZ-REEL7TR-ND	Supervisor MPU 4.63V*	SOT-23	2419.20/3,000		
ADM809MARTZ-REEL7CT-ND	Supervisor Pushpull 4.38V*	SOT-23	1.58	1.26	.95
ADM809MARTZ-REEL7TR-ND	Supervisor Pushpull 4.38V*	SOT-23	2419.20/3,000		
ADM809SARTZ-REEL7CT-ND	Supervisor Pushpull 2.93V*	SOT-23	1.58	1.26	.95
ADM809SARTZ-REEL7TR-ND	Supervisor Pushpull 2.93V*	SOT-23	2419.20/3,000		
ADM809TARTZ-REEL7CT-ND	Supervisor Pushpull 3.08V*	SOT-23	1.58	1.26	.95
ADM809TARTZ-REEL7TR-ND	Supervisor Pushpull 3.08V*	SOT-23	2419.20/3,000		
ADM810JAKS-RL7CT-ND	Supervisor Pushpull 4.0V	SC-70-3	1.75	1.40	1.05
ADM810JAKS-RL7TR-ND	Supervisor Pushpull 4.0V	SC-70-3	2688.00/3,000		
ADM810LARTZ-REEL7CT-ND	Supervisor Pushpull 4.63V*	SOT-23	1.53	1.22	.92
ADM810LARTZ-REEL7TR-ND	Supervisor Pushpull 4.63V*	SOT-23	2342.40/3,000		
ADM811LARTZ-REEL7CT-ND	Supervisor with Reset 4.63V*	SOT-143-4	1.38	1.15	.92
ADM811LARTZ-REEL7TR-ND	Supervisor with Reset 4.63V*	SOT-143-4	1794.00/3,000		
ADM811RART-RL7CT-ND	Supervisor with Reset 2.63V	SOT-143-4	1.35	1.08	.81
ADM811RART-RL7TR-ND	Supervisor with Reset 2.63V	SOT-143-4	2073.60/3,000		
ADM811RARTZ-REEL7CT-ND	Supervisor with Reset 2.63V*	SOT-143-4	1.38	1.15	.92
ADM811RARTZ-REEL7TR-ND	Supervisor with Reset 2.63V*	SOT-143-4	1794.00/3,000		

ANALOG DEVICES DigiReel® *(Cont.)*

SUPERVISORY CIRCUITS AND RESET GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM811SARTZ-REEL7CT-ND	Supervisor with Reset 2.93V*	SOT-143-4	1.38	1.15	.92
ADM811SARTZ-REEL7TR-ND	Supervisor with Reset 2.93V*	SOT-143-4	1794.00/3,000		
ADM811TARTZ-REEL7CT-ND	Supervisor with Reset 3.08V*	SOT-143-4	1.38	1.15	.92
ADM811TARTZ-REEL7TR-ND	Supervisor with Reset 3.08V*	SOT-143-4	1794.00/3,000		
ADM825TYRJZ-R7CT-ND	Supervisor Circuit, Watchdog and Manual Reset*	SOT-23-5	1.50	1.25	1.00
ADM825TYRJZ-R7TR-ND	Supervisor Circuit, Watchdog and Manual Reset*	SOT-23-5	1950.00/3,000		
ADM1070ARTREEL7CT-ND	Hotswap Controller -48V	SOT-23-6	4.10	3.28	2.55
ADM1070ARTREEL7TR-ND	Hotswap Controller -48V	SOT-23-6	6879.60/3,000		
ADM1232ANZ-ND	Supervisor/CPU*	8-Dip	1.98	1.58	1.19
ADM1232ARNZ-ND	Supervisor/CPU*	8-SOIC	1.98	1.58	1.19
ADM1232ARNREEL7TR-ND	Supervisor/CPU	8-SOIC	1183.00/1,000		
ADM1815-R23ARTZ-R7CT-ND	Monitor Reset 2.31V* ***NEW!***	SOT-23	1.17	.98	.78
ADM1815-R23ARTZ-R7TR-ND	Monitor Reset 2.31V* ***NEW!***	SOT-23	1521.00/3,000		
ADM181810ARTRL7CT-ND	Monitor Reset 2.88V	SOT-23	1.41	1.18	.94
ADM1818-10ARTZ-RL7CT-ND	Monitor Reset 2.88V*	SOT-23	1.20	1.00	.80
ADM1818-10ARTZ-RL7TR-ND	Monitor Reset 2.88V*	SOT-23	1560.00/3,000		
ADM181820ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.41	1.18	.94
ADM1818-20ARTZ-RL7CT-ND	Monitor Reset 2.55V*	SOT-23	1.20	1.00	.80
ADM1818-R23AKSZ-R7CT-ND	Monitor Reset 2.31V*	SC-70-3	1.11	.93	.74
ADM2914-1ARQZ-ND	Supervisor Quad UV/OV* ***NEW!***	16-QSOP	7.98	6.39	5.39
ADM2914-2ARQZ-ND	Supervisor Quad UV/OV* ***NEW!***	16-QSOP	7.98	6.39	5.39
ADM6711RAKSZ-REEL7CT-ND	Supervisor MPU Push-Pull 2.63V*	SC70-4	.78	.65	.52
ADM6711RAKSZ-REEL7TR-ND	Supervisor MPU Push-Pull 2.63V*	SC70-4	1014.00/3,000		
ADM6713LAKSZ-REEL7CT-ND	Supervisor Open Drain 4.63V*	SC70-4	.78	.65	.52
ADM6713LAKSZ-REEL7TR-ND	Supervisor Open Drain 4.63V*	SC70-4	1014.00/3,000		
ADM6713MAKSZ-REEL7CT-ND	Supervisor Open Drain 4.38V*	SC70-4	.78	.65	.52
ADM6713RAKSZ-REEL7CT-ND	Supervisor Open Drain 2.63V*	SC70-4	.78	.65	.52
ADM6713RAKSZ-REEL7TR-ND	Supervisor Open Drain 2.63V*	SC70-4	1014.00/3,000		
ADM6713SAKSZ-REEL7CT-ND	Supervisor Open Drain 2.93V*	SC70-4	.78	.65	.52
ADM6713SAKSZ-REEL7TR-ND	Supervisor Open Drain 2.93V*	SC70-4	1014.00/3,000		
ADM6713TAKSZ-REEL7CT-ND	Supervisor Open Drain 3.08V*	SC70-4	.78	.65	.52
ADM6713TAKSZ-REEL7TR-ND	Supervisor Open Drain 3.08V*	SC70-4	1014.00/3,000		
ADM6713ZAKS-RL7CT-ND	Supervisor Open Drain 2.32V	SC70-4	.90	.75	.60
ADM6713ZAKSZ-REEL7CT-ND	Supervisor Open Drain 2.32V*	SC70-4	.78	.65	.52
ADM6713ZAKSZ-REEL7TR-ND	Supervisor Open Drain 2.32V*	SC70-4	1014.00/3,000		
ADM8695ARWZ-ND	Supervisor MPU 4.65V Adj.*	16-SOIC	5.29	4.23	3.29
ADM13305-4ARZ-ND	Supervisor Dual Processor, Watchdog*	8-SOIC	2.48	1.98	1.54
ADM13305-33ARZ-ND	Supervisor Dual Processor, Watchdog*	8-SOIC	2.48	1.98	1.54
ADM13307-5ARZ-ND	Supervisor Triple Processor*	8-SOIC	2.68	2.15	1.67
ADM13307-25ARZ-ND	Supervisor Triple Processor*	8-SOIC	2.68	2.15	1.67

ANALOG DEVICES DigiReel®

SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Analog					
AD7512DIKPZ-ND	Switch Analog CMOS Dual*	20-PLCC	15.41	13.88	12.31
ADG201AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.35	2.69	2.09
ADG201AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.26	2.61	2.03
ADG201HSJNZ-ND	Switch Analog High Speed Quad SPST*	16-Dip	5.62	4.50	3.80
ADG201HSKRZ-ND	Switch Analog High Speed Quad SPST*	16-SOIC	8.94	7.16	6.04
ADG202AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.35	2.69	2.09
ADG202AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.26	2.61	2.03
ADG211AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.08	2.47	1.92
ADG211AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.99	2.40	1.87
ADG212AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.08	2.47	1.92
ADG212AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.99	2.40	1.87
ADG221KNZ-ND	Switch Analog Quad SPST*	16-Dip	3.89	3.12	2.43
ADG221KRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.78	3.03	2.36
ADG333ABNZ-ND	Switch Analog Quad SPDT*	20-Dip	5.82	4.66	3.93
ADG333ABRZ-ND	Switch Analog Quad SPDT*	20-SOIC	5.66	4.53	3.83
ADG333ABRSZ-ND	Switch Analog Quad SPDT*	20-SSOP	5.66	4.53	3.83
ADG411BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	3.92	3.14	2.44
ADG411BRUZ-ND	Switch Analog Quad Precision SPST*	16-TSSOP	3.92	3.14	2.44
ADG411BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	3.92	3.14	2.44
ADG412BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	4.10	3.28	2.55
ADG412BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	3.92	3.14	2.44
ADG413BNZ-ND	Switch LC^{2}MOS Precision Quad SPST*	16-Dip	4.03	3.23	2.51
ADG413BRUZ-ND	Switch LC^{2}MOS Precision Quad SPST*	16-TSSOP	3.92	3.14	2.44
ADG413BRZ-ND	Switch LC^{2}MOS Precision Quad SPST*	16-SOIC	3.92	3.14	2.44
ADG417BRZ-ND	Switch Analog Single*	8-SOIC	2.28	1.82	1.37
ADG419BNZ-ND	Switch Analog Single Precision*	8-Dip	2.81	2.25	1.75
ADG419BRMZ-ND	Switch Analog Single Precision*	8-MSOP	2.72	2.18	1.70
ADG419BRZ-ND	Switch Analog Single Precision*	8-SOIC	2.72	2.18	1.70
ADG431BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.15	4.13	3.21
ADG431BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	5.00	4.00	3.11
ADG432BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.15	4.13	3.21
ADG432BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	5.00	4.00	3.11
ADG433BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.15	4.13	3.21
ADG433BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	5.00	4.00	3.11
ADG436BNZ-ND	Switch Analog Dual SPDT*	16-Dip	6.10	4.88	3.80
ADG436BRZ-ND	Switch Analog Dual SPDT*	16-SOIC	5.94	4.76	3.70
ADG441BNZ-ND	Switch Analog Quad SPST*	16-Dip	2.15	1.72	1.29
ADG441BRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.15	1.72	1.29
ADG442BNZ-ND	Switch Analog Quad SPST*	16-Dip	2.15	1.72	1.29
ADG442BRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.15	1.72	1.29
ADG444BNZ-ND	Switch Analog Quad SPST 5V*	16-Dip	1.94	1.55	1.21
ADG444BRZ-ND	Switch Analog Quad SPST 5V*	16-SOIC	2.15	1.72	1.29
ADG451BNZ-ND	Switch Analog Quad SPST*	16-Dip	5.11	4.09	3.18
ADG451BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.95	3.96	3.08
ADG451BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.95	3.96	3.08
ADG452BNZ-ND	Switch Analog Quad SPST*	16-Dip	5.11	4.09	3.18
ADG452BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.95	3.96	3.08
ADG452BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.95	3.96	3.08
ADG453BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.95	3.96	3.08
ADG453BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.95	3.96	3.08
ADG465BRMZ-REEL7CT-ND	Single Channel Protector*	8-MSOP	2.33	1.86	1.40
ADG465BRTZ-REEL7CT-ND	Single Channel Protector*	SOT-23-6	1.83	1.46	1.10
ADG465BRTZ-REEL7TR-ND	Single Channel Protector*	SOT-23-6	2803.20/3,000		
ADG467BRZ-ND	Channel Protector Octal*	18-SOIC	6.01	4.81	3.74
ADG467BRSZ-ND	Channel Protector Octal*	20-SSOP	6.01	4.81	3.74
ADG511BRZ-ND	Switch LC^{2}MOS Quad 5/3V*	16-SOIC	5.22	4.18	3.25
ADG512BRZ-ND	Switch LC^{2}MOS Quad 5/3V*	16-SOIC	5.22	4.18	3.25
ADG620BRTZ-REEL7CT-ND	Switch 4-Ohm Single SPDT*	SOT-23-8	2.38	1.90	1.43
ADG620BRTZ-REEL7TR-ND	Switch 4-Ohm Single SPDT*	SOT-23-8	3648.00/3,000		

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADG621BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.43	1.94	1.46
ADG622BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.43	1.94	1.46
ADG623BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.43	1.94	1.46
ADG701LBRMZ-ND	Switch CMOS 2-Ohm SPST*	8-MSOP	1.70	1.36	1.02
ADG701LBRTZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	1.68	1.34	1.01
ADG701LBRTZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	2572.80/3,000		
ADG702BRJZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-5	1.53	1.22	.92
ADG702BRJZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-5	2342.40/3,000		
ADG702LBRTZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	1.68	1.34	1.01
ADG702LBRTZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	2572.80/3,000		
ADG722BRMZ-ND	Switch CMOS 4-Ohm Dual SPST*	8-MSOP	1.70	1.36	1.02
ADG723ACPZ-REEL7CT-ND	Switch CMOS 4-Ohm Dual SPST*	8-LFCSP	1.50	1.20	.90
ADG728BRUZ-ND	Switch Matrix, CMOS 2-Wire*	16-TSSOP	3.85	3.08	2.40
ADG733BRUZ-ND	Switch CMOS 2.5-Ohm Triple SPDT*	16-TSSOP	2.66	2.13	1.66
ADG736LBRMZ-REEL7CT-ND	Switch CMOS 2.5-Ohm Dual SPDT*	10-MSOP	2.25	1.80	1.40
ADG736LBRMZ-REEL7TR-ND	Switch CMOS 2.5-Ohm Dual SPDT*	10-MSOP	1275.00/1,000		
ADG749BKSZ-REEL7CT-ND	CMOS 1.8V~5.5V, 2:1 Mux/SPDT Switch*	SC70-6	1.78	1.42	1.07
ADG749BKSZ-REEL7TR-ND	CMOS 1.8V~5.5V, 2:1 Mux/SPDT Switch*	SC70-6	2726.40/3,000		
ADG772BCPZ-REEL7CT-ND	CMOS Low Power Dual 2:1 Mux/Demux*	10-LFCSP	2.03	1.62	1.22
ADG772BCPZ-REEL7TR-ND	CMOS Low Power Dual 2:1 Mux/Demux*	10-LFCSP	3159.00/3,000		
ADG774ABCPZ-R2CT-ND	CMOS Low Power Quad 2:1 Mux* ***NEW!***	16-LFCSP	4.10	3.28	2.55
ADG774ABCPZ-R2TR-ND	CMOS Low Power Quad 2:1 Mux* ***NEW!***	16-LFCSP	605.15/250		
ADG781BCPZ-REEL7CT-ND	2.5-Ohm Quad SPST Switch*	20-LFCSP	2.43	1.94	1.46
ADG781BCPZ-REEL7TR-ND	2.5-Ohm Quad SPST Switch*	20-LFCSP	1891.50/1,500		
ADG782BCPZ-REEL7CT-ND	Switch 2.5-Ohm Quad SPST*	20-LFCSP	2.43	1.94	1.46
ADG782BCPZ-REEL7TR-ND	Switch 2.5-Ohm Quad SPST*	20-LFCSP	1891.50/1,500		
ADG787BRMZ-ND	Switch CMOS 2.5-Ohm Dual 2:1 Mux/Demux*	10-MSOP	2.45	1.96	1.47
ADG791GBCPZ-REELCT-ND	Switch I^2C, 4-Channel SPDT*	24-LFCSP	1.85	1.48	1.11
ADG792ABCPZ-REELCT-ND	Mux I^2C, Triple 4:1*	24-LFCSP	4.70	3.77	2.93
ADG792GBCPZ-REELCT-ND	Mux I^2C, Triple 4:1*	24-LFCSP	5.18	4.14	3.22
ADG793ABCPZ-REELCT-ND	Mux I^2C, Triple 3:1*	24-LFCSP	3.76	3.01	2.34
ADG793GBCPZ-REELCT-ND	Mux I^2C, Triple 3:1*	24-LFCSP	4.14	3.32	2.58
ADG795ABCPZ-REELCT-ND	Switch I^2C, 5-Channel SPDT*	24-LFCSP	2.43	1.94	1.46
ADG796ABCPZ-REELCT-ND	Mux I^2C Hex 2:1*	24-LFCSP	2.45	1.97	1.53
ADG811YCPZ-REEL7CT-ND	Switch CMOS Quad SPST*	16-LFCSP	2.75	2.20	1.71
ADG811YCPZ-REEL7TR-ND	Switch CMOS Quad SPST*	16-LFCSP	2333.25/1,500		
ADG811YRUZ-ND	Switch CMOS Quad SPST*	16-TSSOP	2.95	2.36	1.84
ADG812YRUZ-ND	Switch CMOS Quad SPST*	16-TSSOP	2.95	2.36	1.84
ADG849YKSZ500RLCT-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	1.73	1.38	1.04
ADG849YKSZ500RLTR-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	465.75/500		
ADG854BCPZ-REEL7CT-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Switch*	10-LFCSP	2.28	1.82	1.37
ADG854BCPZ-REEL7TR-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Switch*	10-LFCSP	3494.40/3,000		
ADG858BCPZ-REEL7CT-ND	1.8V/5.5V CMOS 0.58-Ohm, Quad SPDT/2:1 Mux*	16-LFCSP	2.86	2.29	1.78
ADG858BCPZ-REEL7TR-ND	1.8V/5.5V CMOS 0.58-Ohm, Quad SPDT/2:1 Mux*	16-LFCSP	4800.60/3,000		
ADG884BCPZ-REEL7CT-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-LFCSP	2.28	1.82	1.37
ADG884BCPZ-REEL7TR-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-LFCSP	1774.50/1,500		
ADG884BRMZ-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-MSOP	2.43	1.94	1.46
ADG888YRUZ-ND	Switch 0.4-Ohm CMOS Dual DPDT*	16-TSSOP	3.87	3.10	2.41
ADG904BRUZ-ND	Wideband, CMOS 1.65V-2.75V, 4:1 Mux/SP4T*	20-TSSOP	3.38	2.70	2.10
ADG936BRUZ-ND	1.65V-2.75V, SPDT Dual Switch*	20-TSSOP	3.49	2.79	2.17
ADG936BRUZ-R-ND	1.65V-2.75V, SPDT Dual Switch*	20-TSSOP	3.49	2.79	2.17
ADG1311YRUZ-ND	Quad SPST Switch*	16-TSSOP	2.52	2.02	1.57
ADG1311YRZ-ND	Quad SPST Switch*	16-SOIC	2.52	2.02	1.57
ADG1312YRUZ-ND	Quad SPST Switch*	16-TSSOP	2.52	2.02	1.57
ADG1312YRZ-ND	Quad SPST Switch*	16-SOIC	2.52	2.02	1.57
ADG1313YRZ-ND	Quad SPST Switch*	16-SOIC	2.52	2.02	1.57
ADG1334BRSZ-ND	Quad SPDT Switch*	20-SSOP	3.85	3.08	2.40
ADG1411YCPZ-REEL7CT-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	6.04	4.84	4.08
ADG1411YCPZ-REEL7TR-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	5662.50/1,500		
ADG1411YRUZ-ND	1.5-Ohm On Resistance, iCMOS™*	16-TSSOP	6.38	5.11	4.31
ADG1412YCPZ-REEL7CT-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	6.04	4.84	4.08
ADG1412YCPZ-REEL7TR-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	5662.50/1,500		
ADG1412YRUZ-ND	1.5-Ohm On Resistance, iCMOS™*	16-TSSOP	6.38	5.11	4.31
ADG1413YCPZ-REEL7CT-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	6.04	4.84	4.08
ADG1413YCPZ-REEL7TR-ND	1.5-Ohm On Resistance, iCMOS™*	16-LFCSP	5662.50/1,500		
ADG1413YRUZ-ND	1.5-Ohm On Resistance, iCMOS™*	16-TSSOP	6.38	5.11	4.31
ADG1433YCPZ-REEL7CT-ND	4-Ohm RON, Triple SPDT iCMOS™*	16-LFCSP	5.10	4.08	3.45
ADG1433YCPZ-REEL7TR-ND	4-Ohm RON, Triple SPDT iCMOS™*	16-LFCSP	4781.25/1,500		
ADG1433YRUZ-ND	4-Ohm RON, Triple SPDT iCMOS™*	16-TSSOP	5.42	4.34	3.66
ADG1434YCPZ-REEL7CT-ND	4-Ohm RON, Quad SPDT iCMOS™*	20-LFCSP	6.60	5.28	4.46
ADG1434YCPZ-REEL7TR-ND	4-Ohm RON, Quad SPDT iCMOS™*	20-LFCSP	6187.50/1,500		
ADG1434YRUZ-ND	4-Ohm RON, Quad SPDT iCMOS™*	20-TSSOP	7.00	5.60	4.73
ADG1517BCPZ-REEL7CT-ND	1.6-Ohm RON, 15V SPST iCMOS™*	8-LFCSP	3.24	2.60	2.02
ADG1517BCPZ-REEL7TR-ND	1.6-Ohm RON, 15V SPST iCMOS™*	8-LFCSP	5443.20/3,000		
ADG2108BCPZ-REEL7CT-ND	I^2C CMOS 8x10 Unbuffered Analog*	32-LFCSP	9.94	7.96	6.71
ADG2128BCPZ-HS-RL7CT-ND	8x12 Unbuffered Analog Switch*	32-LFCSP	10.41	9.38	8.32
ADG2128BCPZ-HS-RL7TR-ND	8x12 Unbuffered Analog Switch*	32-LFCSP	11578.13/1,500		
EVAL-ADG2128EB-ND	Evaluation Board for ADG2128	—	140.63	—	—
ADG2188BCPZ-HS-RL7CT-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	9.38	7.51	6.34
ADG2188YCPZ-HS-RL7CT-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	8.75	7.88	6.99
ADG2188BCPZ-REEL7CT-ND	I^2C CMOS 8x8 Unbuffered Analog*	32-LFCSP	8.52	6.82	5.76
Audio/Video					
AD8109ASTZ-ND	Video Switch 8x8 with Buffer*	80-LQFP	28.74	26.83	24.91
AD8113JSTZ-ND	Audio/Video Switch 16x16 with Buffer*	100-LQFP	39.54	36.91	34.27
AD8115ASTZ-ND	Video Crosspoint Switch 16x16*	100-LQFP	103.40	96.51	89.61
AD8197ASTZ-ND	4:1 HDMI/DVI Switch with Equalization*	100-LQFP	10.90	9.81	8.70
AD9889BBCPZ-165-ND	High Performance HDMI/DVI Transmitter*	64-LFCSP	8.90	8.01	7.11
AD9889BBSTZ-165-ND	High Performance HDMI/DVI Transmitter*	80-LQFP	8.86	8.01	7.11
ADG794BRQZ-ND	300MHz, Quad 2:1 Mux Analog HDTV Audio/ Video Switch*	16-QSOP	1.48	1.18	.89
ADV7520NKBBCZ-80-ND	LP HDMI/DVI Transmitter with CEC*	76-CSPBGA	8.56	6.85	5.78
SSM2220SZ-ND	Audio Dual Matched PNP Transistor*	8-SOIC	7.16	5.73	4.84
Bus					
ADG3233BRJZ-REEL7CT-ND	Logic Level Translation 1.65V to 3.6V Bypass*	SOT-23-8	1.45	1.16	.87
ADG3233BRM-ND	Logic Level Translation 1.65V to 3.6V Bypass	8-MSOP	1.75	1.40	1.05
ADG3233BRMREEL7CT-ND	Logic Level Translation 1.65V to 3.6V Bypass	8-MSOP	1.75	1.40	1.05
ADG3248BKSZ-REEL7CT-ND	Mux/Demux Bus Switch 2:1*	SC70-6	1.43	1.14	.86
ADG3248BKSZ-REEL7TR-ND	Mux/Demux Bus Switch 2:1*	SC70-6	2188.80/3,000		
ADG3249BRJ-R2CT-ND	Mux/Demux Bus Switch 2:3	SOT-23-8	1.73	1.38	1.04

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Crosspoint — RoHS Compliant					
AD8152JBPZ-ND	Digital Crosspoint Switch 34x34	256-BGA	220.29	—	—
AD8153-EVALZ-ND	Evaluation Board for AD8153	—	561.38	—	—
AD8153ACPZ-ND	Xstream 3.2Gbps Single Buffered Mux/Demux	32-LFCSP	9.60	8.64	7.67
AD8153ACPZ-RL7CT-ND	Xstream 3.2Gbps Single Buffered Mux/Demux	32-LFCSP	9.60	8.64	7.67
AD8159ASVZ-ND	Xstream 3.2Gbps Quad Buffer Mux/Demux	100-TQFP	18.93	17.67	16.41
General Purpose — RoHS Compliant					
ADG1211YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch	16-TSSOP	4.64	3.71	2.89
ADG1212YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch	16-LFCSP	3.88	3.11	2.62
ADG1212YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch	16-LFCSP	1261.00/500		
ADG1212YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch	16-TSSOP	4.64	3.71	2.89
ADG1213YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch	16-TSSOP	4.64	3.71	2.89
ADG1219BRJZ-REEL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ SPDT Switch	SOT-23-8	3.40	2.72	2.12
ADG1219BRJZ-REEL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ SPDT Switch	SOT-23-8	5707.80/3,000		
ADG1221BRMZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPST Switch	10-MSOP	3.04	2.43	1.89
ADG1233YRUZ-ND	Low Capacitance, Triple SPDT iCMOS™ Switch	16-TSSOP	5.49	4.40	3.42
ADG1233YCPZ-REEL7CT-ND	Low Capacitance, Triple SPDT iCMOS™ Switch	16-LFCSP	4.60	3.68	3.11
ADG1234YRUZ-ND	Low Capacitance, Quad SPDT iCMOS™ Switch	20-TSSOP	6.26	5.01	4.23
ADG1234YCPZ-REEL7CT-ND	Low Capacitance, Quad SPDT iCMOS™ Switch	20-LFCSP	5.92	4.74	4.00
ADG1234YCPZ-REEL7TR-ND	Low Capacitance, Quad SPDT iCMOS™ Switch	20-LFCSP	5550.00/1,500		
ADG1236YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch	12-LFCSP	4.43	3.55	2.76
ADG1236YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch	12-LFCSP	1280.50/500		
ADG1236YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch	16-TSSOP	4.64	3.71	2.89
ADG1401BRMZ-ND	1Ω RON, iCMOS™ SPST Switch ***NEW!***	8-MSOP	3.44	2.76	2.15
ADG1402BRMZ-ND	1Ω RON, iCMOS™ SPST Switch ***NEW!***	8-MSOP	3.44	2.76	2.15
ADG1404YRUZ-ND	1.5Ω RON, 4:1 iCMOS™ Mux	14-TSSOP	6.02	4.82	4.07
ADG1406BRUZ-ND	9.5Ω RON, 16-Ch., Diff. 8-Ch., iCMOS™ Mux	28-TSSOP	8.51	7.67	6.80
ADG1407BRUZ-ND	9.5Ω RON, 16-Ch., Diff. 8-Ch., iCMOS™ Mux	28-TSSOP	8.51	7.67	6.80
ADG1408YCPZ-REEL7CT-ND	Low Capacitance, Low Charge Injection, 4/8-Channel, ±15V iCMOS™ Mux	16-LFCSP	6.00	4.80	4.05
ADG1408YCPZ-REEL7TR-ND	Low Capacitance, Low Charge Injection, 4/8-Channel, ±15V iCMOS™ Mux	16-LFCSP	5625.00/1,500		
ADG1408YRUZ-ND	Low Capacitance, Low Charge Injection, 4/8-Channel, ±15V iCMOS™ Mux	16-TSSOP	6.36	5.09	4.30
ADG1414BRUZ-ND	9.5Ω RON, Octal iCMOS™ SPST Switch ***NEW!***	24-TSSOP	6.66	5.33	4.50
ADG1421BRMZ-ND	2.1Ω RON, Dual iCMOS™ SPST Switch ***NEW!***	10-MSOP	3.87	3.10	2.41
ADG1422BRMZ-ND	2.1Ω RON, Dual iCMOS™ SPST Switch ***NEW!***	10-MSOP	3.87	3.10	2.41
ADG1423BRMZ-ND	2.1Ω RON, Dual iCMOS™ SPST Switch ***NEW!***	10-MSOP	3.87	3.10	2.41
ADG1633BRUZ-ND	4.5Ω RON, Triple iCMOS™ SPDT Switch ***NEW!***	16-TSSOP	6.58	5.27	4.45
ADG1634BRUZ-ND	4.5Ω RON, Quad iCMOS™ SPDT Switch ***NEW!***	16-TSSOP	9.00	7.20	6.08
ADG3123BRUZ-ND	8-Ch. CMOS Logic to High Volt. Level Translator	20-TSSOP	5.54	4.43	3.45
ADG3300BRUZ-REEL7CT-ND	Low Voltage 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator ***NEW!***	20-TSSOP	3.85	3.08	2.40
ADG3300BRUZ-REEL7TR-ND	Low Voltage 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator ***NEW!***	20-TSSOP	2180.25/1,000		
ADG3301BKSZ-REEL7CT-ND	Low Voltage 1.15V~5.5V, Single Ch., Bidirectional Logic Level Translator	SC70-6	1.41	1.18	.94
ADG3301BKSZ-REEL7TR-ND	Low Voltage 1.15V~5.5V, Single Ch., Bidirectional Logic Level Translator	SC70-6	1833.00/3,000		
ADG3304BRUZ-ND	Low Voltage 1.15V~5.5V, 4-Ch., Bidirectional Logic Level Translator	14-TSSOP	2.32	1.86	1.45
ADG3308BCPZ-REEL7CT-ND	Low Voltage 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator	20-LFCSP	3.65	2.92	2.27
ADG3308BCPZ-REEL7TR-ND	Low Voltage 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator	20-LFCSP	3061.80/1,500		
ADG3308BRUZ-ND	Low Voltage 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator	20-TSSOP	3.85	3.08	2.40
Multiplexer — RoHS Compliant					
AD7501JNZ-ND	Mux Analog 8-Channel	16-Dip	12.00	10.80	9.58
AD7501KNZ-ND	Mux Analog 8-Channel	16-Dip	12.58	11.33	10.05
AD8170ARZ-ND	Mux 250MHz, 10nS, 2:1 with Amp	8-SOIC	5.11	4.09	3.18
AD8174ANZ-ND	Mux 250MHz, 10nS, 4:1 with Amp	14-Dip	7.02	5.62	4.74
AD8174ARZ-ND	Mux 250MHz, 10nS, 4:1 with Amp	14-SOIC	7.02	5.62	4.74
AD8180ARZ-ND	Mux Switching 2:1	8-SOIC	4.41	3.53	2.75
AD8182ARZ-ND	Mux Switching Dual 2:1	14-SOIC	5.56	4.45	3.76
AD8184ANZ-ND	Video Mux 4:1, 700MHz	14-Dip	5.13	4.11	3.20
AD8184ARZ-ND	Video Mux 4:1, 700MHz	14-SOIC	5.13	4.11	3.20
AD8186ARUZ-ND	Triple Mux 2:1, 480MHz	24-TSSOP	5.38	4.31	3.64
AD8188ARUZ-ND	Triple Mux 2:1, 350MHz	24-TSSOP	4.28	3.42	2.66
ADG406BNZ-ND	Mux 16-Channel High Performance	28-Dip	8.78	7.91	7.01
ADG406BPZ-ND	Mux 16-Channel High Performance	28-PLCC	9.10	8.19	7.27
ADG407BNZ-ND	Mux Analog 8-Channel High Performance	28-Dip	9.56	8.61	7.64
ADG407BPZ-ND	Mux Analog 8-Channel High Performance	28-PLCC	9.90	8.91	7.91
ADG408BNZ-ND	Mux Analog 8-Channel High Performance	16-Dip	5.49	4.40	3.42
ADG408BRZ-ND	Mux Analog 8-Channel High Performance	16-SOIC	5.33	4.27	3.32
ADG408BRUZ-ND	Mux Analog 8-Channel High Performance	16-TSSOP	5.33	4.27	3.32
ADG409BNZ-ND	Mux Dual 4-Channel High Performance	16-Dip	5.49	4.40	3.42
ADG409BRZ-ND	Mux Dual 4-Channel High Performance	16-SOIC	5.33	4.27	3.32
ADG426BRSZ-ND	Mux Analog 16-Channel High Performance	28-SSOP	9.26	8.34	7.40
ADG428BNZ-ND	Mux Analog 8-Ch. LC^2MOS Latchable, High Perf.	18-Dip	6.70	5.36	4.53
ADG428BRZ-ND	Mux Analog 8-Ch. LC^2MOS Latchable, High Perf.	18-SOIC	6.50	5.20	4.39
ADG438FBRZ-ND	Mux Analog 8-Channel High Performance	16-SOIC	7.54	6.04	5.09
ADG439FBRZ-ND	Mux Analog 4-Channel High Performance	16-SOIC	7.54	6.04	5.09
ADG506AKNZ-ND	Mux Analog Single 16-Channel	28-Dip	9.61	8.66	7.68
ADG506AKPZ-ND	Mux Analog Single 16-Channel	28-PLCC	10.80	9.72	8.62
ADG506AKRZ-ND	Mux Analog Single 16-Channel	28-SOIC	9.33	8.40	7.45
ADG507AKNZ-ND	Mux Analog Dual 8-Channel	28-Dip	9.60	8.64	7.67
ADG507AKPZ-ND	Mux Analog Dual 8-Channel	28-PLCC	10.80	9.72	8.62
ADG507AKRUZ-ND	Mux Analog Dual 8-Channel	28-TSSOP	12.21	11.00	9.75
ADG507AKRZ-ND	Mux Analog Dual 8-Channel	28-SOIC	9.33	8.40	7.45
ADG508AKNZ-ND	Mux Analog Single 8-Channel	16-Dip	5.32	4.26	3.60
ADG508AKRZ-ND	Mux Analog Single 8-Channel	16-SOIC	5.16	4.13	3.49
ADG508FBNZ-ND	Mux Single 8-Channel Fault-Protected	16-Dip	7.00	5.60	4.73
ADG508FBRNZ-ND	Mux Single 8-Channel Fault-Protected	16-SOIC	7.00	5.60	4.73
ADG508FBRWZ-ND	Mux Single 8-Channel Fault-Protected	16-SOIC	6.78	5.43	4.58
ADG509AKNZ-ND	Mux Analog Dual 4-Channel	16-Dip	5.06	4.05	3.15

* *RoHS Compliant*

(Continued)

ANALOG DEVICES DigiReel® (Cont.) SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADG509FBRNZ-ND	Mux Analog Dual 16-Channel Fault-Protected	16-SOIC	7.00	5.60	4.73
ADG526AKNZ-ND	Mux Analog Single 16-Channel	28-Dip	10.51	9.47	8.40
ADG526AKPZ-ND	Mux Analog Single 16-Channel	28-PLCC	10.71	9.65	8.56
ADG526AKRZ-ND	Mux Analog Single 16-Channel	28-SOIC	10.20	9.18	8.14
ADG528AKNZ-ND	Mux Analog 8-Channel	18-Dip	7.62	6.10	5.15
ADG528AKPZ-ND	Mux Analog 8-Channel	20-PLCC	7.74	6.20	5.23
ADG529AKNZ-ND	Mux Analog Dual 4-Channel	18-Dip	7.62	6.10	5.15
ADG529AKPZ-ND	Mux Analog Dual 4-Channel	20-PLCC	7.74	6.20	5.23
ADG604YRUZ-ND	Mux 4-Channel, 2.7V~5.5V	14-TSSOP	3.60	2.88	2.24
ADG608BNZ-ND	Mux 8-Channel, 3V~5V High Performance	16-Dip	4.70	3.77	2.93
ADG608BRZ-ND	Mux 8-Channel, 3V~5V High Performance	16-SOIC	4.57	3.66	2.85
ADG608BRUZ-REEL7CT-ND	Mux 8-Channel, 3V~5V High Performance	16-TSSOP	4.57	3.66	2.85
ADG608BRUZ-REEL7TR-ND	Mux 8-Channel, 3V~5V High Performance	16-TSSOP	2588.25/1,000		
ADG608TRUZ-ND	Mux 8-Ch., 3V~5V High Performance	16-TSSOP	6.78	5.43	4.58
ADG609BNZ-ND	Mux Differential 4-Channel, 3V~5V Precision	16-Dip	4.70	3.77	2.93
ADG609BRZ-ND	Mux Differential 4-Channel, 3V~5V Precision	16-SOIC	4.57	3.66	2.85
ADG609BRUZ-ND	Mux Differential 4-Channel, 3V~5V Precision	16-TSSOP	4.57	3.66	2.85
ADG658YRUZ-ND	Mux Single 8-Channel, 3V~5V	16-TSSOP	3.94	3.15	2.45
ADG659YRUZ-ND	Mux Dual 8-Channel, 3V~5V	16-TSSOP	3.94	3.15	2.45
ADG704BRMZ-ND	Mux 4-Channel, 1.8V~5.5V	10-MSOP	2.40	1.92	1.44
ADG706BRUZ-ND	Mux 16-Channel, 1.8V~5.5V	28-TSSOP	5.48	4.39	3.70
ADG707BRUZ-ND	Mux 16-Channel, 1.8V~5.5V	28-TSSOP	5.48	4.39	3.70
ADG708BRUZ-ND	Mux Single 8-Channel, 1.8V~5.5V	16-TSSOP	3.02	2.42	1.88
ADG708CRUZ-ND	Mux Single 8-Channel, 1.8V~5.5V	16-TSSOP	3.62	2.90	2.26
ADG709BRUZ-ND	Mux Dual 4-Channel, 1.8V~5.5V	16-TSSOP	3.02	2.42	1.88
ADG709BRUZ-REEL7CT-ND	Mux Dual 4-Channel, 1.8V~5.5V	16-TSSOP	3.02	2.42	1.88
ADG709BRUZ-REEL7TR-ND	Mux Dual 4-Channel, 1.8V~5.5V	16-TSSOP	1708.50/1,000		
ADG709CRUZ-ND	Mux Dual 4-Channel, 1.8V~5.5V	16-TSSOP	3.62	2.90	2.26
ADG725BSUZ-ND	Mux SPI 16-Channel, 1.8V~5.5V	48-TQFP	9.86	7.89	6.66
ADG726BSUZ-ND	Mux Differential 16-Channel, 1.8V~5.5V	48-TQFP	9.70	7.76	6.55
ADG731BSUZ-ND	Mux SPI 32-Channel, 1.8V~5.5V	48-TQFP	9.86	7.89	6.66
ADG732BCPZ-ND	Mux Analog 32-Channel, 1.8V~5.5V	48-LFCSP	9.70	7.76	6.55
ADG732BSUZ-ND	Mux Single 32-Channel, 1.8V~5.5V	48-TQFP	9.70	7.76	6.55
ADG738BRUZ-ND	Mux SPI 8-Channel, 2.7V~5.5V	16-TSSOP	3.85	3.08	2.40
ADG758BCPZ-ND	Mux 3-Ohm 8-Channel 1.8V~5.5V	20-LFCSP	3.02	2.42	1.88
ADG759BCPZ-ND	Mux Dual 4-Channel, 1.8V~5.5V	20-LFCSP	3.02	2.42	1.88
ADG774BRQZ-ND	Mux Quad 200MHz Low Voltage	16-QSOP	3.80	3.05	2.37
ADG774BRZ-ND	Mux Quad 200MHz Low Voltage	16-SOIC	3.69	2.96	2.30
ADG824BCPZ-REEL7CT-ND	Mux 0.5Ω SPDT/2:1, 1.65V~3.6V Dual	10-LFCSP	2.00	1.60	1.20
ADG824BCPZ-REEL7TR-ND	Mux 0.5Ω SPDT/2:1, 1.65V~3.6V Dual	10-LFCSP	3072.00/3,000		
ADG1204YCPZ-500RL7CT-ND	Mux Low Cap. Low Charge Injection, 4:1 iCMOS™	12-LFCSP	4.66	3.73	2.90
ADG1204YCPZ-500RL7TR-ND	Mux Low Cap. Low Charge Injection, 4:1 iCMOS™	12-LFCSP	1345.50/500		
ADG1419BRMZ-ND	2.1Ω SPDT Switch iCMOS™ ***NEW!***	8-MSOP	3.62	2.90	2.26
ADG1438BRUZ-ND	Mux 9.5Ω 8-Channel iCMOS™ ***NEW!***	20-TSSOP	6.28	5.03	4.24
ADG1439BRUZ-ND	Mux 9.5Ω Dual 4-Channel iCMOS™ ***NEW!***	20-TSSOP	6.28	5.03	4.24
ADG1604BCPZ-REEL7CT-ND	Mux Analog 1Ω 4:1	16-LFCSP	4.12	3.30	2.57
ADG1604BCPZ-REEL7TR-ND	Mux Analog 1Ω 4:1	16-LFCSP	3499.88/1,500		
ADG1604BRUZ-ND	Mux Analog 1Ω 4:1	14-TSSOP	4.37	3.50	2.72
ADG1606BRUZ-ND	Mux Analog 4Ω 16:1 ***NEW!***	28-TSSOP	6.78	5.43	4.58
ADG1607BRUZ-ND	Mux Analog 4Ω 2x8:1 ***NEW!***	28-TSSOP	6.78	5.43	4.58
ADG1608BRUZ-ND	Mux Analog 4.5Ω 8-Channel ***NEW!***	16-TSSOP	7.58	6.07	5.12
ADG1609BRUZ-ND	Mux Analog 4.5Ω Dual 4-Channel ***NEW!***	16-TSSOP	7.58	6.07	5.12
ADG1611BRUZ-ND	Switch Mux Analog 1Ω Quad SPST NC	16-TSSOP	4.19	3.35	2.61
ADG1612BCPZ-REEL7CT-ND	Switch Mux Analog 1Ω Quad SPST NO	16-LFCSP	3.94	3.15	2.45
ADG1612BCPZ-REEL7TR-ND	Switch Mux Analog 1Ω Quad SPST NO	16-LFCSP	3346.88/1,500		
ADG1612BRUZ-ND	Switch Mux Analog 1Ω Quad SPST NO	16-TSSOP	4.19	3.35	2.61
ADG1613BRUZ-ND	Switch Mux Analog 1Ω Quad SPST, 2NC/2NO	16-TSSOP	4.19	3.35	2.61
ADG1636BCPZ-REEL7CT-ND	Switch Analog, 1Ω Dual SPDT	16-LFCSP	4.12	3.30	2.57
ADG1636BCPZ-REEL7TR-ND	Switch Analog, 1Ω Dual SPDT	16-LFCSP	3499.88/1,500		
ADG1636BRUZ-ND	Switch Analog, 1Ω Dual SPDT	16-TSSOP	4.37	3.50	2.72
RF/Video — RoHS Compliant					
ADG601BRMZ-ND	Switch 2-Ohm SPST	8-MSOP	2.30	1.84	1.38
ADG601BRTZ-REEL7CT-ND	Switch 2-Ohm SPST	SOT-23-6	2.25	1.80	1.35
ADG601BRTZ-REEL7TR-ND	Switch 2-Ohm SPST	SOT-23-6	3456.00/3,000		
ADG611YRUZ-ND	Switch Quad 3V to 5V SPST	16-TSSOP	3.38	2.70	2.10
ADG612YRUZ-ND	Switch Quad 3V to 5V SPST	16-TSSOP	3.38	2.70	2.10
ADG613YRUZ-ND	Switch Quad 3V to 5V SPST	16-TSSOP	3.38	2.70	2.10
ADG619BRMZ-ND	Switch 2.7V to 5.5V SPDT	8-MSOP	2.43	1.94	1.46
ADG619BRTZ-REEL7CT-ND	Switch 2.7V to 5.5V SPDT	SOT-23-8	2.38	1.90	1.43
ADG619BRTZ-REEL7TR-ND	Switch 2.7V to 5.5V SPDT	SOT-23-8	3648.00/3,000		
ADG633YRUZ-ND	Switch Triple SPDT 3V to 5V	16-TSSOP	2.20	1.76	1.32
ADG636YRUZ-ND	Switch Dual 3V to 5V SPDT	14-TSSOP	3.60	2.88	2.24
ADG711BRUZ-ND	Switch Quad SPST 1.8V to 5.5V	16-TSSOP	2.43	1.94	1.46
ADG712BRZ-ND	Switch Quad SPST 1.8V to 5.5V	16-SOIC	2.43	1.94	1.46
ADG712BRUZ-ND	Switch Quad SPST 1.8V to 5.5V	16-TSSOP	2.43	1.94	1.46
ADG713BRUZ-ND	Switch Quad SPST 1.8V to 5.5V	16-TSSOP	2.43	1.94	1.46
ADG714BRUZ-ND	Switch Octal Serial 2.7V to 5.5V	24-TSSOP	4.25	3.41	2.65
ADG715BRUZ-ND	Switch Octal Serial 2.7V to 5.5V	24-TSSOP	4.25	3.41	2.65
ADG719BRMZ-ND	Switch Single SPDT 1.8V to 5.5V	8-MSOP	1.70	1.36	1.02
ADG719BRTZ-REEL7CT-ND	Switch SPDT 1.8V to 5.5V	SOT-23-6	1.55	1.24	.93
ADG719BRTZ-REEL7TR-ND	Switch SPDT 1.8V to 5.5V	SOT-23-6	2380.80/3,000		
ADG721BRMZ-ND	Switch Dual SPST 1.8V to 5.5V	8-MSOP	1.70	1.36	1.02
ADG723BRMZ-ND	Switch Dual SPST 1.8V to 5.5V	8-MSOP	1.70	1.36	1.02
ADG734BRUZ-ND	Switch Quad 1.8V to 5.5V SPDT	20-TSSOP	3.26	2.61	2.03
ADG736BRMZ-ND	Switch Dual SPDT 1.8V to 5.5V	10-MSOP	2.28	1.82	1.37
ADG751ARTZ-REEL7CT-ND	Switch SPST Low Voltage CMOS	SOT-23-6	2.28	1.82	1.37
ADG751ARTZ-REEL7TR-ND	Switch SPST Low Voltage CMOS	SOT-23-6	3494.40/3,000		
ADG752BRMZ-ND	Switch SPDT Low Voltage CMOS	8-MSOP	2.97	2.38	1.85
ADG779BKSZ-REEL7CT-ND	Switch SPDT 1.8V to 5.5V	SC70-6	1.63	1.30	.98
ADG779BKSZ-REEL7TR-ND	Switch SPDT 1.8V to 5.5V	SC70-6	2496.00/3,000		
ADG788BCPZ-ND	Switch Quad SPDT 1.8V to 5.5V	20-LFCSP	3.26	2.61	2.03
ADG801BRMZ-ND	Switch Single SPST 1.8V to 5.5V	8-MSOP	2.35	1.88	1.41
ADG802BRMZ-ND	Switch Single SPST 1.8V to 5.5V	8-MSOP	2.35	1.88	1.41
ADG819BRMZ-ND	Switch Fast SPDT 1.8V to 5.5V	8-MSOP	2.48	1.98	1.49
ADG821BRMZ-ND	Switch Dual SPST 1.8V to 5.5V	8-MSOP	2.36	1.89	1.47
ADG822BRMZ-ND	Switch Dual SPST 1.8V to 5.5V	8-MSOP	2.36	1.89	1.47
ADG823BRMZ-ND	Switch Dual SPST 1.8V to 5.5V	8-MSOP	2.36	1.89	1.47
ADG836LYRMZ-ND	Switch Dual SPDT 1.65V to 3.6V	10-MSOP	2.36	1.89	1.47
ADG836YRMZ-ND	Switch Dual SPDT 1.65V to 3.6V	10-MSOP	2.36	1.89	1.47
ADG901BRMZ-ND	Switch Single SPST 1.65V to 2.75V	8-MSOP	2.34	1.88	1.46
EVAL-ADG901EBZ-ND	Evaluation Board for ADG901	—	128.42	—	—
ADG902BRMZ-ND	Switch Single SPST 1.65V to 2.75V	8-MSOP	2.34	1.88	1.46
ADG918BCPZ-REEL7CT-ND	Switch Wideband 2:1 Mux/SPDT 1.65V ~ 2.75V	8-LFCSP	2.32	1.86	1.45
ADG918BCPZ-REEL7TR-ND	Switch Wideband 2:1 Mux/SPDT 1.65V ~ 2.75V	8-LFCSP	1969.88/1,500		
ADG918BRMZ-ND	Switch Wideband 2:1 Mux/SPDT 1.65V ~ 2.75V	8-MSOP	2.45	1.97	1.53
ADG919BCPZ-REEL7CT-ND	Switch Wideband 2:1 Mux/SPDT 1.65V ~ 2.75V	8-LFCSP	2.32	1.86	1.45
ADG919BRMZ-ND	Switch Wideband 2:1 Mux/SPDT 1.65V ~ 2.75V	8-MSOP	2.45	1.97	1.53

austriamicrosystems NEW! AUDIO RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Speaker Amplifiers					
AS1701-ND	1.6W Audio Power Amp	8-MSOP	1.60	1.30	1.17
AS1702-ND	1.8W Single Channel Audio Power Amp	10-MSOP	1.61	1.30	1.17
AS1702V-ND	1.8W Single Channel Audio Power Amp	10-DFN	1.65	1.33	1.20
AS1703-ND	1.8W Single Channel Audio Power Amp	10-MSOP	1.61	1.30	1.17
AS1703V-ND	1.8W Single Channel Audio Power Amp	10-DFN	1.65	1.33	1.20
AS1704-ND	1.8W Single Channel Audio Power Amp	10-MSOP	1.61	1.30	1.17
AS1704V-ND	1.8W Single Channel Audio Power Amp	10-DFN	1.65	1.33	1.20
AS1705-ND	1.8W Single Channel Audio Power Amp	10-MSOP	1.61	1.30	1.17
AS1705V-ND	1.8W Single Channel Audio Power Amp	10-DFN	1.65	1.33	1.20
AS1706-ND	1.6W Audio Power Amp	8-MSOP	1.61	1.30	1.17
Audio Demo Boards					
AS1702-05 DB-ND	Demo Board for AS1702-05	—	75.81	—	—
AS1702V-05V DB-ND	Demo Board for AS1702V-05V	—	75.81	—	—

austriamicrosystems DigiReel® NEW! DATA CONVERTERS RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Digital Potentiometers					
AS1500-TCT-ND	10kΩ Digital Potentiometer	8-SOIC	2.99	2.31	2.10
AS1500-TTR-ND	10kΩ Digital Potentiometer	8-SOIC	2882.50/2,500		
AS1501-ND	20kΩ Digital Potentiometer	8-SOIC	2.65	2.14	1.93
AS1502-ND	50kΩ Digital Potentiometer	8-SOIC	2.65	2.14	1.93
AS1503-ND	100kΩ Digital Potentiometer	8-SOIC	2.65	2.14	1.93
A/D Converters					
AS1524-BTDR-ND	12-Bit, 150ksps, 1-Channel ADC	8-TDFN	4.86	3.91	3.56
AS1525-BTDR-ND	12-Bit, 150ksps, 2-Channel ADC	8-TDFN	4.86	3.91	3.56
AS1526-BSOU-ND	10-Bit, 73ksps, Single Supply ADC	8-SOIC	2.69	2.17	1.96
AS1527-BSOU-ND	10-Bit, 73ksps, Single Supply ADC	8-SOIC	2.56	2.07	1.86
AS1528-BTDR-ND	10-Bit, 150ksps, 1-Channel ADC	8-TDFN	4.04	3.25	2.96
AS1529-BTDR-ND	10-Bit, 150ksps, 2-Channel ADC	8-TDFN	4.04	3.25	2.96
AS1530-ND	12-Bit, 400ksps, 8-Channel ADC	20-TSSOP	5.02	4.04	3.68
AS1531-ND	12-Bit, 300ksps, 8-Channel ADC	20-TSSOP	5.02	4.04	3.68
AS1538-BTSU-ND	12-Bit, 8-Channel I²C ADC	16-TSSOP	4.16	3.34	3.05
AS1539-BTSU-ND	10-Bit, 8-Channel I²C ADC	16-TSSOP	3.45	2.78	2.53
Analog Switches					
AS1741G-ND	0.8Ω Dual SPST Analog Switch	8-MSOP	2.26	1.82	1.64
AS1742G-ND	0.8Ω Dual SPST Analog Switch	8-MSOP	2.26	1.82	1.64
AS1743G-ND	0.8Ω Dual SPST Analog Switch	8-MSOP	2.26	1.82	1.64
AS1744G-ND	4Ω Dual SPDT Analog Switch	10-MSOP	2.34	1.89	1.71
AS1745G-ND	4Ω Dual SPDT Analog Switch	10-MSOP	2.34	1.89	1.71
AS1751S-ND	0.9Ω Quad SPST Analog Switch	14-TSSOP	2.78	2.24	2.02
AS1752S-ND	0.9Ω Quad SPST Analog Switch	14-TSSOP	2.78	2.24	2.02
AS1753S-ND	0.9Ω Quad SPST Analog Switch	14-TSSOP	2.78	2.24	2.02
Data Acquisition Front-End					
AS8501-ASOU-ND	Low Power Data Acquisition System	16-SOIC	26.88	22.85	21.17
Data Conversion Evaluation Boards / Demo Boards					
AS1525 EB-ND	Evaluation Board for AS1525	—	79.80	—	—
AS1538 EB-ND	Evaluation Board for AS1538	—	79.80	—	—
AS1539 EB-ND	Evaluation Board for AS1539	—	79.80	—	—

austriamicrosystems DigiReel® NEW! LIGHTING MANAGEMENT RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AS1100WE-ND	Serial Interface 8-Digit LED Driver	24-SOIC	9.28	7.61	6.87
AS1100WL-TCT-ND	Serial Interface 8-Digit LED Driver	24-SOIC	8.68	7.21	6.56
AS1100WL-TTR-ND	Serial Interface 8-Digit LED Driver	24-SOIC	6634.50/1,500		
AS1104-ND	Low Dropout LED Driver	8-MSOP	1.43	1.15	1.01
AS1105WL-ND	Serial Interface 4-Digit LED Driver	20-SOIC	6.59	5.30	4.83
AS1106WE-ND	8-Digit LED Display Driver	24-SOIC	7.42	6.09	5.50
AS1106WL-ND	8-Digit LED Display Driver	24-SOIC	6.58	5.40	4.87
AS1107WL-TCT-ND	8-Digit LED Display Driver	24-SOIC	6.97	5.80	5.27
AS1107WL-TTR-ND	8-Digit LED Display Driver	24-SOIC	3553.00/1,000		
AS1108WL-ND	4-Digit LED Display Driver	20-SOIC	4.78	3.85	3.51
AS1109-BQFR-ND	Constant-Current, 8-Bit LED Driver with Diagnostics	16-QFN	2.16	1.75	1.57
AS1109-BSOTCT-ND	Constant-Current, 8-Bit LED Driver with Diagnostics	16-SOIC	2.44	1.89	1.71
AS1109-BSOTTR-ND	Constant-Current, 8-Bit LED Driver with Diagnostics	16-SOIC	2352.50/2,500		
AS1109-BSSU-ND	Constant-Current, 8-Bit LED Driver with Diagnostics	16-SSOP	2.16	1.75	1.57
AS1110-BQFR-ND	Constant-Current, 16-Channel LED Driver with Diagnostics	28-QFN	2.94	2.37	2.16
AS1110-BSSU-ND	Constant-Current, 16-Channel LED Driver with Diagnostics	24-SSOP	2.94	2.37	2.16
AS1113-BQFR-ND	Constant-Current, 16-Channel LED Driver with Diagnostics	28-QFN	2.39	1.93	1.74
AS1113-BSSU-ND	Constant-Current, 16-Channel LED Driver with Diagnostics	24-SSOP	2.39	1.93	1.74
AS1120-ND	46-Segment LCD Driver	64-LQFP	7.28	5.97	5.39
AS3691A-ZQFT-ND	4 Output / 400mA LED Driver	24-QFN	4.74	3.82	3.48
Lighting Management Demo Boards					
AS1109 EB-ND	Evaluation Board for AS1109	—	62.51	—	—
AS1110 EB-ND	Evaluation Board for AS1110	—	62.51	—	—
AS1112 EB-ND	Evaluation Board for AS1112	—	90.44	—	—

austriamicrosystems DigiReel® NEW! MAGNETIC ENCODERS RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Rotary Encoders					
AS5030-ATSTCT-ND	8-Bit Programmable High Speed Magnetic Rotary Encoder	16-TSSOP	6.93	5.66	5.09
AS5030-ATSTTR-ND	8-Bit Programmable High Speed Magnetic Rotary Encoder	16-TSSOP	13824.00/4,500		
AS5035-TCT-ND	8-Bit Programmable Magnetic Rotary Encoder	16-SSOP	7.79	6.47	5.88
AS5035-TTR-ND	8-Bit Programmable Magnetic Rotary Encoder	16-SSOP	7644.00/2,000		
AS5040-ASSTCT-ND	10-Bit Programmable Magnetic Rotary Encoder	16-SSOP	11.13	9.24	8.40
AS5040-ASSTTR-ND	10-Bit Programmable Magnetic Rotary Encoder	16-SSOP	10920.00/2,000		
AS5043-ASSTCT-ND	10-Bit Programmable Magnetic Angle Encoder	16-SSOP	10.46	8.69	7.90
AS5043-ASSTTR-ND	10-Bit Programmable Magnetic Angle Encoder	16-SSOP	10264.00/2,000		
AS5045-ASSTCT-ND	12-Bit Programmable Magnetic Rotary Encoder	16-SSOP	12.43	10.32	9.38
AS5045-ASSTTR-ND	12-Bit Programmable Magnetic Rotary Encoder	16-SSOP	12194.00/2,000		

* *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

austriamicrosystems Digi-Reel® (Cont.) NEW! MAGNETIC ENCODERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AS5046-ASSTCT-ND	12-Bit Programmable Magnetic Angle Encoder	16-SSOP	12.43	10.32	9.38
AS5046-ASSTTR-ND	12-Bit Programmable Magnetic Angle Encoder	16-SSOP	12194.00/2,000		
AS5130-ASSTCT-ND	8-Bit Programmable Magnetic Rotary Encoder	16-SSOP	7.14	5.84	5.24
AS5130-ASSTTR-ND	8-Bit Programmable Magnetic Rotary Encoder	16-SSOP	6330.00/2,000		
AS5134-ZSSTCT-ND	8.5-Bit High Speed Magnetic Rotary Encoder	20-SSOP	7.31	5.97	5.36
AS5134-ZSSTTR-ND	8.5-Bit High Speed Magnetic Rotary Encoder	20-SSOP	6480.00/2,000		
AS5140H-ASSU-ND	10-Bit Programmable Magnetic Rotary Encoder	16-SSOP	10.78	8.84	7.98
AS5163-HTSU-ND	12-Bit Programmable Angle Position Sensor	14-TSSOP	7.14	5.86	5.29
Linear Encoders					
AS5304A-ATSU-ND	Linear and Off-Axis Rotary Motion Detector	20-TSSOP	9.63	7.90	7.13
AS5304B-ATSU-ND	Linear and Off-Axis Rotary Motion Detector	20-TSSOP	9.63	7.90	7.13
AS5306A-ATSU-ND	Linear and Off-Axis Rotary Motion Detector	20-TSSOP	9.63	7.90	7.13
AS5306B-ATSU-ND	Linear and Off-Axis Rotary Motion Detector	20-TSSOP	9.63	7.90	7.13
Magnetic Encoder Evaluation Boards / Demo Boards					
AS5000 PROGRAMMER-ND	AS5000 Programmer for Encoders	—	437.50	—	—
AS5030 AB-ND	Adapter Board for AS5030	—	46.55	—	—
AS5030 DB-ND	Demo Board for AS5030	—	175.00	—	—
AS5040 AB-ND	Adapter Board for AS5040	—	46.55	—	—
AS5040 DB V2-ND	Demo Board V.2. for AS5040	—	175.00	—	—
AS5040 PB-ND	Programming Board for AS5040	—	137.50	—	—
AS5045 AB-ND	Adapter Board for AS5045	—	46.55	—	—
AS5045 DB V2-ND	Demo Board V.2. for AS5045	—	175.00	—	—
AS5134 DB-ND	Demo Board for AS5134	—	175.00	—	—
AS5134 PB-ND	Programming Board for AS5134	—	137.50	—	—
AS5140 AB-ND	Adapter Board for AS5140	—	46.55	—	—
AS5140 DB-ND	Demo Board for AS5140	—	175.00	—	—
AS5145 AB-ND	Adapter Board for AS5145	—	46.55	—	—
AS5145 DB-ND	Demo Board for AS5145	—	175.00	—	—
AS5163 AB-ND	Adapter Board for AS5163	—	46.55	—	—
AS5163 CB-ND	Connecting Board for AS5163	—	137.50	—	—
AS5163 DB-ND	Demo Board for AS5163	—	175.00	—	—
AS5304/B DB-ND	Demo Board for AS5304	—	262.50	—	—
AS5306/B DB-ND	Demo Board for AS5306	—	262.50	—	—

austriamicrosystems Digi-Reel® NEW! POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LVDS					
AS1150-ND	Quad LVDS Receiver	16-TSSOP	3.65	2.93	2.67
AS1152-ND	Quad LVDS Driver	16-TSSOP	3.65	2.93	2.67
AS1153-ND	Dual LVDS Receiver	8-SOIC	2.78	2.24	2.02
AS1154-BSOU-ND	Dual LVDS Driver	8-SOIC	2.78	2.24	2.02
Step-Up Converters					
AS1326A-BTDR-ND	0.8A DC-DC Step-Up Converter	10-TDFN	2.60	2.10	1.89
AS1326B-BTDR-ND	0.8A DC-DC Step-Up Converter	10-TDFN	2.60	2.10	1.89
LDOs					
AS1360-33-TCT-ND	150mA, 3.3V Positive Voltage Regulator	SOT-23	1.57	1.24	1.12
AS1360-33-TTR-ND	150mA, 3.3V Positive Voltage Regulator	SOT-23	1445.00/2,500		
AS1360-50-TCT-ND	150mA, 5V Positive Voltage Regulator	SOT-23	1.57	1.24	1.12
AS1360-50-TTR-ND	150mA, 5V Positive Voltage Regulator	SOT-23	1445.00/2,500		
Comparators					
AS1972-ND	Low Voltage Dual Comparator	8-MSOP	1.87	1.51	1.36
AS1973-ND	Low Voltage Dual Comparator	8-MSOP	1.87	1.51	1.36
AS1974-ND	Low Voltage Quad Comparator	14-TSSOP	2.65	2.14	1.93
AS1975-ND	Low Voltage Quad Comparator	14-TSSOP	2.65	2.14	1.93
Power Management Evaluation Boards / Demo Boards					
AS1326 EB-ND	Evaluation Board for AS1326	—	62.51	—	—
AS1360 EB-ND	Evaluation Board for AS1360	—	62.51	—	—

austriamicrosystems Digi-Reel® NEW! RF PRODUCTS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RFID					
AS3910-BQFTCT-ND	13.56MHz RFID Reader	32-QFN	8.61	7.15	6.50
AS3910-BQFTTR-ND	13.56MHz RFID Reader	32-QFN	4388.00/1,000		
AS3991-BQFTCT-ND	UHF RFID Single Chip Reader	64-QFN	68.60	—	—
AS3991-BQFTTR-ND	UHF RFID Single Chip Reader	64-QFN	1746.36/33		
Low Frequency					
AS3930-BQFTCT-ND	Single Channel Low Frequency Wakeup Receiver	16-QFN	5.25	4.29	3.85
AS3930-BQFTTR-ND	Single Channel Low Frequency Wakeup Receiver	16-QFN	2450.00/1,000		
AS3932-BQFTCT-ND	3-Channel Low Frequency Wakeup Receiver	16-QFN	5.67	4.64	4.16
AS3932-BQFTTR-ND	3-Channel Low Frequency Wakeup Receiver	16-QFN	2646.00/1,000		
AS3932-BTSTCT-ND	3-Channel Low Frequency Wakeup Receiver	16-TSSOP	5.67	4.64	4.16
AS3932-BTSTTR-ND	3-Channel Low Frequency Wakeup Receiver	16-TSSOP	2646.00/1,000		

CATALYST SEMICONDUCTOR, INC. Digi-Reel® MIXED-SIGNAL

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LED Drivers and DC/DC					
CAT32TDI-T3CT-ND	CMOS White LED Driver	TSOT23-6	1.81	1.40	1.27
CAT310W-T1CT-ND	10-Channel Automotive LED Display Driver	20-SOIC	2.35	1.81	1.65
CAT310W-T1TR-ND	10-Channel Automotive LED Display Driver	20-SOIC	972.00/1,000		
CAT661EVA-T3CT-ND	100mA CMOS Charge Pump Voltage Converter	8-SOIC	2.41	1.87	1.69
CAT3224HV3-GT2CT-ND	4A Supercapacitor Flash LED Driver	16-TQFN	3.40	2.63	2.38
CAT3224HV3-GT2TR-ND	4A Supercapacitor Flash LED Driver	16-TQFN	2622.00/2,000		
CAT3604HV4-T2CT-ND	4-Ch. Regulated Charge Pump White LED Driver	16-TQFN	2.41	1.87	1.69
CAT3604HV4-T2TR-ND	4-Ch. Regulated Charge Pump White LED Driver	16-TQFN	1888.00/2,000		
CAT3604VHV4-GT2CT-ND	4-Ch. Regulated Charge Pump White LED Driver	16-TQFN	1.31	1.04	.93
CAT3606HV4-T2CT-ND	6-Ch. Low Noise Charge Pump White LED Driver	16-TQFN	2.60	2.00	1.80
CAT3606HV4-T2TR-ND	6-Ch. Low Noise Charge Pump White LED Driver	16-TQFN	1888.00/2,000		
CAT3612HV2-T2CT-ND	Programmable 300mA Camera Flash LED Driver	12-TDFN	2.15	1.65	1.49

CATALYST SEMICONDUCTOR, INC. Digi-Reel® (Cont.) MIXED-SIGNAL

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT3612HV2-T2TR-ND	Programmable 300mA Camera Flash LED Driver	12-TDFN	1888.00/2,000		
CAT3614HV2-T2CT-ND	4-Channel, 1-Wire LED Driver	12-TDFN	2.29	1.77	1.61
CAT3614HV2-T2TR-ND	4-Channel, 1-Wire LED Driver	12-TDFN	1794.00/2,000		
CAT3636HV3-T2CT-ND	6-Channel Quad-Mode™ Fractional LED Driver	16-TQFN	2.47	1.91	1.74
CAT3636HV3-T2TR-ND	6-Channel Quad-Mode™ Fractional LED Driver	16-TQFN	1936.00/2,000		
CAT3637HV3-GT2CT-ND	6-Ch. Prog. High Efficiency Quad-Mode LED Driver	16-TQFN	2.12	1.89	1.66
CAT3637HV3-GT2TR-ND	6-Ch. Prog. High Efficiency Quad-Mode LED Driver	16-TQFN	1392.00/2,000		
CAT3643HV2-T2CT-ND	3-Ch. Ultra High Efficiency Quad-Mode LED Driver	12-TDFN	1.69	1.31	1.19
CAT3643HV2-T2TR-ND	3-Ch. Ultra High Efficiency Quad-Mode LED Driver	12-TDFN	1322.00/2,000		
CAT3644HV3-T2CT-ND	4-Ch. Ultra High Efficiency Quad-Mode LED Driver	16-TQFN	1.75	1.35	1.23
CAT3647HV3-GT2CT-ND	3-Ch. Ultra High Efficiency Quad-Mode LED Driver	16-TQFN	1.44	1.14	1.03
CAT3647HV3-GT2TR-ND	3-Ch. Ultra High Efficiency Quad-Mode LED Driver	16-TQFN	1064.00/2,000		
CAT3648HV3-GT2CT-ND	4-Ch. Ultra High Efficiency Quad-Mode LED Driver	16-TQFN	1.52	1.20	1.08
CAT3648HV3-GT2TR-ND	4-Ch. Ultra High Efficiency Quad-Mode LED Driver	16-TQFN	1120.00/2,000		
CAT4004VP2-T3CT-ND	4-Ch. Constant Current LED Driver with EZDim™	8-TDFN	1.69	1.31	1.19
CAT4004VP2-T3TR-ND	4-Ch. Constant Current LED Driver with EZDim™	8-TDFN	1983.00/3,000		
CAT4008W-T2CT-ND	8-Channel Constant Current LED Driver	16-SOIC	1.75	1.35	1.23
CAT4008W-T2TR-ND	8-Channel Constant Current LED Driver	16-SOIC	1350.00/2,000		
CAT4016HV6-T2CT-ND	16-Channel Constant Current LED Driver	24-TQFN	2.59	2.01	1.82
CAT4016VS-T2CT-ND	16-Channel Constant Current LED Driver	24-QSOP	1.78	1.38	1.25
CAT4016VSR-T2CT-ND	16-Channel Constant Current LED Driver	24-QSOP	1.78	1.38	1.25
CAT4016VSR-T2TR-ND	16-Channel Constant Current LED Driver	24-QSOP	1368.00/2,000		
CAT4016W-T1CT-ND	16-Channel Constant Current LED Driver	24-SOIC	2.03	1.57	1.43
CAT4016W-T1TR-ND	16-Channel Constant Current LED Driver	24-SOIC	841.00/1,000		
CAT4016Y-T2CT-ND	16-Channel Constant Current LED Driver	24-TSSOP	2.03	1.57	1.43
CAT4016Y-T2TR-ND	16-Channel Constant Current LED Driver	24-TSSOP	1566.00/2,000		
CAT4101TV-T75CT-ND	1A Constant Current LED Driver	TO-263-5	3.36	2.60	2.36
CAT4101TV-T75TR-ND	1A Constant Current LED Driver	TO-263-5	1134.00/750		
CAT4103V-GT2CT-ND	175mA Constant Current RGB LED Driver	16-SOIC	2.28	1.76	1.60
CAT4103V-GT2TR-ND	175mA Constant Current RGB LED Driver	16-SOIC	1756.00/2,000		
CAT4109V-GT2CT-ND	3-Channel Constant Current RGB LED Driver	16-SOIC	2.28	1.76	1.60
CAT4109V-GT2TR-ND	3-Channel Constant Current RGB LED Driver	16-SOIC	1756.00/2,000		
CAT4134HV2-T2CT-ND	500mA Dual Channel Movie/Flash LED Driver	12-TDFN	2.47	1.91	1.74
CAT4134HV2-T2TR-ND	500mA Dual Channel Movie/Flash LED Driver	12-TDFN	1936.00/2,000		
CAT4137TD-GT3CT-ND	CMOS Boost Converter, White LED Driver ***NEW!***	TSOT23-5	1.52	1.20	1.08
CAT4137TD-GT3TR-ND	CMOS Boost Converter, White LED Driver ***NEW!***	TSOT23-5	1680.00/3,000		
CAT4137TD-T3CT-ND	CMOS Boost Converter, White LED Driver	TSOT23-5	1.81	1.40	1.27
CAT4137TD-T3TR-ND	CMOS Boost Converter, White LED Driver	TSOT23-5	2124.00/3,000		
CAT4139TD-GT3CT-ND	22V High Current Boost White LED Driver	TSOT23-5	1.60	1.26	1.14
CAT4139TD-GT3TR-ND	22V High Current Boost White LED Driver	TSOT23-5	1764.00/3,000		
CAT4201TD-GT3CT-ND	350mA High Efficiency Step Down LED Driver	TSOT23-5	3.15	2.43	2.21
CAT4201TD-GT3TR-ND	350mA High Efficiency Step Down LED Driver	TSOT23-5	3645.00/3,000		
CAT4237TD-GT3CT-ND	High Volt. CMOS Boost White LED Driver ***NEW!***	TSOT23-5	1.52	1.20	1.08
CAT4237TD-GT3TR-ND	High Volt. CMOS Boost White LED Driver ***NEW!***	TSOT23-5	1680.00/3,000		
CAT4237TD-T3CT-ND	High Voltage CMOS Boost White LED Driver	TSOT23-5	2.17	1.68	1.53
CAT4237TD-T3TR-ND	High Voltage CMOS Boost White LED Driver	TSOT23-5	2550.00/3,000		
CAT4238TD-GT3CT-ND	High Efficiency 10 LED Boost Converter	TSOT23-5	1.60	1.26	1.14
CAT4238TD-GT3TR-ND	High Efficiency 10 LED Boost Converter	TSOT23-5	1764.00/3,000		
CAT4240TD-GT3CT-ND	6W Boost LED Driver	TSOT23-5	1.71	1.35	1.22
CAT4240TD-GT3TR-ND	6W Boost LED Driver	TSOT23-5	1890.00/3,000		
CAT9532HV6I-GT2CT-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-TQFN	2.59	2.12	1.90
CAT9532HV6I-GT2TR-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-TQFN	2360.00/2,000		
CAT9532WI-T1CT-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-SOIC	2.87	2.22	2.01
CAT9532WI-T1TR-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-SOIC	1124.00/1,000		
CAT9532YI-T2CT-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-TSSOP	2.87	2.22	2.01
CAT9532YI-T2TR-ND	16-Bit Prog. LED Dimmer with I^{2}C Interface	24-TSSOP	2242.00/2,000		
CAT9552WI-T1CT-ND	16-Channel I^{2}C Bus LED Driver with Prog. Blink Rate	24-SOIC	3.33	2.57	2.33
CAT9552WI-T1TR-ND	16-Channel I^{2}C Bus LED Driver with Prog. Blink Rate	24-SOIC	1378.00/1,000		
CAT9552YI-T2CT-ND	16-Channel I^{2}C Bus LED Driver with Prog. Blink Rate	24-TSSOP	3.33	2.57	2.33
CAT9552YI-T2TR-ND	16-Channel I^{2}C Bus LED Driver with Prog. Blink Rate	24-TSSOP	2566.00/2,000		
Digital Potentiometers					
CAT5110TBI-00-T3CT-ND	100k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	1.51	1.17	1.06
CAT5110TBI-50-T3CT-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	1.51	1.17	1.06
CAT5110TBI-50-T3TR-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	1770.00/3,000		
CAT5111VI-10-T3CT-ND	10k-Ohm, 100-Tap DPP™ with Buffered Wiper	8-SOIC	3.03	2.48	2.23
CAT5111VI-10-T3TR-ND	10k-Ohm, 100-Tap DPP™ with Buffered Wiper	8-SOIC	4143.00/3,000		
CAT5112VI-10-T3CT-ND	10k-Ohm, 32-Tap DPP™ with Buffered Wiper	8-SOIC	3.17	2.59	2.33
CAT5113VI-10-T3CT-ND	10k-Ohm, 100-Tap DPP™	8-SOIC	3.50	2.86	2.57
CAT5114VI-10-T3CT-ND	10k-Ohm, 32-Tap DPP™	8-SOIC	2.94	2.27	2.06
CAT5114VI-10-T3TR-ND	10k-Ohm, 32-Tap DPP™	8-SOIC	3402.00/3,000		
CAT5114ZD7I00GT3CT-ND	100k-Ohm, 32-Tap DPP™	8-TDFN	2.69	2.08	1.88
CAT5114ZD7I00GT3TR-ND	100k-Ohm, 32-Tap DPP™	8-TDFN	3150.00/3,000		
CAT5114ZD7I10GT3CT-ND	10k-Ohm, 32-Tap DPP™	8-TDFN	2.53	1.96	1.78
CAT5114ZD7I10GT3TR-ND	10k-Ohm, 32-Tap DPP™	8-TDFN	2973.00/3,000		
CAT5114ZD7I50GT3CT-ND	50k-Ohm, 32-Tap DPP™	8-TDFN	2.69	2.08	1.88
CAT5114ZD7I50GT3TR-ND	50k-Ohm, 32-Tap DPP™	8-TDFN	3150.00/3,000		
CAT5119TBI-00GT3CT-ND	100k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2.38	1.84	1.67
CAT5119TBI-50GT3CT-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2.38	1.84	1.67
CAT5119TBI-50GT3TR-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2796.00/3,000		
CAT5120TBI-10GT3CT-ND	10k-Ohm, 16-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2.59	2.01	1.82
CAT5121TBI-10GT3CT-ND	10k-Ohm, 16-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2.59	2.01	1.82
CAT5121TBI-10GT3TR-ND	10k-Ohm, 16-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	3045.00/3,000		
CAT5122TBI-10GT3CT-ND	10k-Ohm, 16-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-5	2.80	2.15	1.94
CAT5122TBI-10GT3TR-ND	10k-Ohm, 16-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-5	3045.00/3,000		
CAT5124TBI-50GT3CT-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-5	2.47	1.90	1.71
CAT5124TBI-50GT3TR-ND	50k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-5	2691.00/3,000		
CAT5125TBI-10GT3CT-ND	10k-Ohm, 32-Tap MiniPot Digitally Prog., 2-Wire	SOT-23-6	2.29	1.77	1.61
CAT5127ZI-10-T3CT-ND	10k-Ohm, 32-Tap DPP™	8-MSOP	2.56	1.98	1.80
CAT5127ZI-10-T3TR-ND	10k-Ohm, 32-Tap DPP™	8-MSOP	3009.00/3,000		
CAT5128TBI-10GT3CT-ND	10k-Ohm, 32-Tap DPP™	SOT-23-8	2.53	1.96	1.78
CAT5129TDI-10GT3CT-ND	10k-Ohm, 32-Tap DPP™	TSOT23-6	2.53	1.96	1.78
CAT5129TDI-10GT3TR-ND	10k-Ohm, 32-Tap DPP™	TSOT23-6	2973.00/3,000		

MIXED-SIGNAL RoHS Compliant (Cont.)

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
CAT5132ZI-00-GT3CT-ND	100k-Ohm, 16V DPP™ with 128-Taps, I^{2}C Interface	10-MSOP	3.34	2.73	2.46
CAT5132ZI-00-GT3TR-ND	100k-Ohm, 16V DPP™ with 128-Taps, I^{2}C Interface	10-MSOP	4566.00/3,000		
CAT5132ZI-10-G-ND	10k-Ohm, 16V DPP™ with 128-Taps, I^{2}C Interface ***NEW!***	10-MSOP	3.61	3.10	2.71
Voltage Supervisors					
CAT706TVI-GT3CT-ND	3.08V Supervisor	8-SOIC	1.63	1.26	1.15
CAT706TVI-GT3TR-ND	3.08V Supervisor	8-SOIC	2187.00/3,000		
CAT706TZI-GT3CT-ND	3.08V Supervisor	8-MSOP	1.08	.86	.77
CAT809SSDI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SC70	.57	.40	.35
CAT809TSDI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SC70	.57	.40	.35
CAT809TSDI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SC70	420.00/3,000		
CAT809TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SOT-23	.57	.40	.35
CAT810STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SOT-23	.57	.40	.35
CAT810STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor	SOT-23	420.00/3,000		
CAT810TSDI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SC70	.62	.48	.43
CAT810TSDI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SC70	717.00/3,000		
CAT811LTBI-T3CT-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.79	.62	.55
CAT811LTBI-T3TR-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	744.00/3,000		
CAT811STBI-GT3CT-ND	2.93V Push-Pull MPU Supervisor with Manual Reset ***NEW!***	SOT-143	.65	.46	.39
CAT811STBI-GT3TR-ND	2.93V Push-Pull MPU Supervisor with Manual Reset ***NEW!***	SOT-143	549.00/3,000		
CAT811STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.79	.62	.55
CAT811STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	744.00/3,000		
CAT811TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.79	.62	.55
CAT811TTBI-T3TR-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	744.00/3,000		
CAT812LTBI-GT3CT-ND	4.63V Push-Pull MPU Supervisor with Manual Reset ***NEW!***	SOT-143	.65	.46	.39
CAT812LTBI-GT3TR-ND	4.63V Push-Pull MPU Supervisor with Manual Reset ***NEW!***	SOT-143	549.00/3,000		
CAT812STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.79	.62	.55
CAT813TVI-GT3CT-ND	4.65V Supervisor	8-SOIC	1.04	.80	.72
CAT813TVI-GT3TR-ND	4.65V Supervisor	8-SOIC	1134.00/3,000		
CAT813TZI-GT3CT-ND	4.65V Supervisor	8-MSOP	1.05	.83	.75
CAT823TTDI-GT3CT-ND	3.08V Push-Pull MPU Supervisor, WD/Manual Reset	SOT-23-5	.97	.75	.66
CAT823TTDI-GT3TR-ND	3.08V Push-Pull MPU Supervisor, WD/Manual Reset	SOT-23-5	957.00/3,000		
CAT1021WI-25-T3CT-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	1.96	1.52	1.38
CAT1021WI-25-T3TR-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	2301.00/3,000		
CAT1022WI-25-T3CT-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	.98	.75	.68
CAT1022WI-25-T3TR-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	2301.00/3,000		
CAT1023WI-28-T3CT-ND	2.85V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	1.96	1.52	1.38
CAT1023WI-28-T3TR-ND	2.85V Supervisor with I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	2301.00/3,000		
CAT1025WI-25-T3CT-ND	2.55V Supervisor, I^{2}C Serial Memory, Manual Reset	8-SOIC	1.96	1.52	1.38
CAT1026WI-25-T3CT-ND	2.55V Dual Voltage Supervisor, I^{2}C Serial Memory	8-SOIC	.98	.75	.68
CAT1026WI-25-T3TR-ND	2.55V Dual Voltage Supervisor, I^{2}C Serial Memory	8-SOIC	2301.00/3,000		
CAT1027WI-28-T3CT-ND	2.85V Dual Voltage Supervisor, I^{2}C Serial Memory	8-SOIC	1.96	1.52	1.38
CAT1161WI-42-T3CT-ND	4.25V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.68	1.30	1.18
CAT1161WI-42-T3TR-ND	4.25V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1974.00/3,000		
CAT1161WI-45-T3CT-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.27	.98	.88
CAT1161WI-45-T3TR-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1974.00/3,000		
CAT1162WI-45-T3CT-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	2.01	1.79	1.57
CAT1162WI-45-T3TR-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	2176.20/3,000		
CAT1163LI42-ND	4.25V Supervisor with I2C Serial Memory, Precision Reset Controller and Watchdog Timer ***NEW!***	8-DIP	1.45	1.17	1.06
CAT1163WI-30-T3CT-ND	3V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.68	1.30	1.18
CAT1163WI-30-T3TR-ND	3V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	2040.00/3,000		
CAT1320WI-25-T3CT-ND	2.55V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-25-T3TR-ND	2.55V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1530.00/2,000		
CAT1320WI-28-T3CT-ND	2.85V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-28-T3TR-ND	2.85V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1530.00/2,000		
CAT1320WI-42-T3CT-ND	4.25V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-42-T3TR-ND	4.25V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1530.00/2,000		
CAT1640WI-28-T3CT-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	2.65	2.05	1.86
CAT1640WI-28-T3TR-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	2076.00/2,000		
CAT1640WI-42-T3CT-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1640WI-42-T3TR-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	2076.00/2,000		
CAT1641WI-28-T3CT-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1641WI-28-T3TR-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	2076.00/2,000		
CAT1641WI-42-T3CT-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1641WI-42-T3TR-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	2076.00/2,000		
CAT1832V-G-ND	3.3V Supply Monitor, Watchdog, and Manual Reset ***NEW!***	8-SOIC	1.13	.91	.79
CAT1832V-GT3CT-ND	3.3V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1.50	1.19	1.07
CAT1832V-GT3TR-ND	3.3V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1662.00/3,000		
CAT130019SWI-GT3CT-ND	2.85V Supervisor with 1-Kb Memory	8-SOIC	.81	.63	.57
CAT130019SWI-GT3TR-ND	2.85V Supervisor with 1-Kb Memory	8-SOIC	1416.00/3,000		
CAT140089SWI-GT3CT-ND	2.85V Supervisor with I^{2}C Serial 8K Memory	8-SOIC	.88	.68	.61
CAT140089SWI-GT3TR-ND	2.85V Supervisor with I^{2}C Serial 8K Memory	8-SOIC	1557.00/3,000		
CAT150049SWI-GT3CT-ND	2.85V Supervisor with 4-Kb SPI Serial Memory	8-SOIC	1.01	.78	.70
CAT150049SWI-GT3TR-ND	2.85V Supervisor with 4-Kb SPI Serial Memory	8-SOIC	1842.00/3,000		
I/O Expanders					
CAT9534WI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	2.98	2.30	2.09
CAT9534WI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	2296.00/2,000		
CAT9534YI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	3.06	2.72	2.38
CAT9534YI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	2296.00/2,000		
CAT9554AWI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	2.76	2.13	1.92
CAT9554AWI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1204.00/2,000		
CAT9554AYI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1.54	1.19	1.08
CAT9554WI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1.79	1.38	1.25
CAT9554WI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1378.00/2,000		
CAT9554YI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1.79	1.38	1.25
CAT9554YI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1378.00/2,000		

MIXED-SIGNAL RoHS Compliant (Cont.)

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
CAT9555WI-T1CT-ND	16-Bit I^{2}C and SMBus I/O Port with Interrupt	24-SOIC	1.72	1.33	1.21
CAT9555WI-T1TR-ND	16-Bit I^{2}C and SMBus I/O Port with Interrupt	24-SOIC	674.00/1,000		
CAT9555YI-T2CT-ND	16-Bit I2C and SMBus I/O Port with Interrupt ***NEW!***	24-TSSOP	2.00	1.54	1.40
CAT9555YI-T2TR-ND	16-Bit I2C and SMBus I/O Port with Interrupt ***NEW!***	24-TSSOP	1540.00/2,000		
Temperature Sensors					
CAT6095VP2I-GT4CT-ND	12-Bit Digital Output Temperature Sensor	8-TDFN	1.63	1.25	1.13

MEMORY — RoHS Compliant

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
Serial EEPROMs					
CAT24C01LI-G-ND	1-Kb CMOS Serial EEPROM	8-Dip	.66	.52	.45
CAT24C01WI-G-ND	1-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	.44	.33	.29
CAT24C01WI-GT3CT-ND	1-Kb CMOS Serial EEPROM	8-SOIC	.52	.35	.29
CAT24C01WI-GT3TR-ND	1-Kb CMOS Serial EEPROM	8-SOIC	357.00/3,000		
CAT24C02LI-G-ND	2-Kb CMOS Serial EEPROM	8-Dip	.76	.59	.52
CAT24C02WI-G-ND	2-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	.44	.33	.29
CAT24C02WI-GT3CT-ND	2-Kb CMOS Serial EEPROM	8-SOIC	.50	.33	.27
CAT24C02WI-GT3TR-ND	2-Kb CMOS Serial EEPROM	8-SOIC	339.00/3,000		
CAT24C02YI-GT3CT-ND	2-Kb CMOS Serial EEPROM	8-TSSOP	.50	.33	.27
CAT24C02YI-GT3TR-ND	2-Kb CMOS Serial EEPROM	8-TSSOP	339.00/3,000		
CAT24C03YI-GT3CT-ND	2-Kb I^{2}C Serial EEPROM	8-TSSOP	.57	.44	.39
CAT24C03YI-GT3TR-ND	2-Kb I^{2}C Serial EEPROM	8-TSSOP	531.00/3,000		
CAT24C04LI-G-ND	4-Kb CMOS Serial EEPROM	8-Dip	.74	.58	.50
CAT24C04WI-G-ND	4-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	.50	.37	.32
CAT24C04YI-GT3CT-ND	4-Kb CMOS Serial EEPROM	8-TSSOP	.54	.36	.30
CAT24C04YI-GT3TR-ND	4-Kb CMOS Serial EEPROM	8-TSSOP	369.00/3,000		
CAT24C05LI-G-ND	4-Kb I^{2}C Serial EEPROM	8-Dip	.60	.47	.41
CAT24C05WI-GT3CT-ND	4-Kb I^{2}C Serial EEPROM	8-SOIC	.75	.58	.51
CAT24C05WI-GT3TR-ND	4-Kb I^{2}C Serial EEPROM	8-SOIC	741.00/3,000		
CAT24C05YI-GT3CT-ND	4-Kb I^{2}C Serial EEPROM	8-TSSOP	.75	.58	.51
CAT24C05YI-GT3TR-ND	4-Kb I^{2}C Serial EEPROM	8-TSSOP	741.00/3,000		
CAT24C08LI-G-ND	8-Kb CMOS Serial EEPROM	8-Dip	.82	.64	.56
CAT24C08WI-G-ND	8-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	.56	.42	.36
CAT24C08WI-GT3CT-ND	8-Kb CMOS Serial EEPROM	8-SOIC	.59	.39	.32
CAT24C08WI-GT3TR-ND	8-Kb CMOS Serial EEPROM	8-SOIC	399.00/3,000		
CAT24C08YI-GT3CT-ND	8-Kb CMOS Serial EEPROM	8-TSSOP	.59	.39	.32
CAT24C08YI-GT3TR-ND	8-Kb CMOS Serial EEPROM	8-TSSOP	399.00/3,000		
CAT24C16LI-G-ND	16-Kb CMOS Serial EEPROM	8-Dip	.86	.67	.59
CAT24C16WI-G-ND	16-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	.58	.43	.37
CAT24C16WI-GT3CT-ND	16-Kb CMOS Serial EEPROM	8-SOIC	.65	.43	.35
CAT24C16WI-GT3TR-ND	16-Kb CMOS Serial EEPROM	8-SOIC	444.00/3,000		
CAT24C16YI-GT3CT-ND	16-Kb CMOS Serial EEPROM	8-TSSOP	.65	.43	.35
CAT24C16YI-GT3TR-ND	16-Kb CMOS Serial EEPROM	8-TSSOP	444.00/3,000		
CAT24C32LI-G-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-Dip	1.10	.89	.78
CAT24C32WI-G-ND	32-Kb I^{2}C CMOS Serial EEPROM ***NEW!***	8-SOIC	.75	.59	.51
CAT24C32WI-GT3CT-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	.63	.44	.38
CAT24C32WI-GT3TR-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	531.00/3,000		
CAT24C32YI-GT3CT-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	.63	.44	.38
CAT24C32YI-GT3TR-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	531.00/3,000		
CAT24C44LI-ND	256-Kb CMOS Serial EEPROM	8-Dip	3.29	2.65	2.41
CAT24C64LI-G-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-Dip	1.38	1.11	.97
CAT24C64WI-G-ND	64-Kb I^{2}C CMOS Serial EEPROM ***NEW!***	8-SOIC	.90	.71	.62
CAT24C64WI-GT3CT-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	.79	.55	.48
CAT24C64WI-GT3TR-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	663.00/3,000		
CAT24C64YI-GT3CT-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	.49	.38	.35
CAT24C128LI-G-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-Dip	1.60	1.29	1.16
CAT24C128WI-G-ND	128-Kb I^{2}C CMOS Serial EEPROM ***NEW!***	8-SOIC	1.10	.89	.78
CAT24C128WI-GT3CT-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	.77	.60	.53
CAT24C128WI-GT3TR-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	756.00/3,000		
CAT24C164WI-G-ND	16-Kb CMOS Serial EEPROM ***NEW!***	8-SOIC	1.53	1.23	1.08
CAT24C208WI-G-ND	8-Kb Dual Port CMOS Serial EEPROM ***NEW!***	8-SOIC	2.90	2.33	2.13
CAT24C256LI-G-ND	256-Kb I^{2}C CMOS Serial EEPROM	8-Dip	2.22	1.79	1.61
CAT24C256WI-G-ND	256-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1.33	1.07	.93
CAT34C02VP2I-GT4CT-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TDFN	.61	.44	.37
CAT34C02VP2I-GT4TR-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TDFN	692.00/4,000		
CAT34C02YI-G-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TSSOP	.72	.56	.49
CAT93C46LI-G-ND	1-Kb Microwire Serial EEPROM ***NEW!***	8-Dip	.62	.49	.42
CAT93C46VI-G-ND	1-Kb Microwire Serial EEPROM ***NEW!***	8-SOIC	.44	.33	.29
CAT93C46VI-GT3CT-ND	1-Kb Microwire Serial EEPROM	8-SOIC	.59	.39	.32
CAT93C46VI-GT3TR-ND	1-Kb Microwire Serial EEPROM	8-SOIC	399.00/3,000		
CAT93C46WI-G-ND	1-Kb Microwire Serial EEPROM ***NEW!***	8-SOIC	.44	.33	.29
CAT93C46WI-GT3CT-ND	1-Kb Microwire Serial EEPROM	8-SOIC	.59	.39	.32
CAT93C46WI-GT3TR-ND	1-Kb Microwire Serial EEPROM	8-SOIC	399.00/3,000		
CAT93C46YI-G-ND	1-Kb Microwire Serial EEPROM ***NEW!***	8-TSSOP	.44	.33	.29
CAT93C56LI-G-ND	2-Kb Microwire Serial EEPROM	8-Dip	.66	.52	.45
CAT93C66LI-G-ND	4-Kb Microwire Serial CMOS EEPROM	8-Dip	.70	.55	.48
CAT93C66VI-G-ND	4-Kb Microwire Serial CMOS EEPROM ***NEW!***	8-SOIC	.65	.49	.42
CAT93C66VI-GT3CT-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	.58	.41	.35
CAT93C66VI-GT3TR-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	492.00/3,000		
CAT93C86LI-G-ND	16-Kb Microwire Serial EEPROM	8-Dip	.90	.70	.61
CAT93C86VI-G-ND	16-Kb Microwire Serial EEPROM ***NEW!***	8-SOIC	.81	.63	.55
CAT93C86VI-GT3CT-ND	16-Kb Microwire Serial EEPROM	8-SOIC	.68	.53	.47
CAT93C86VI-GT3TR-ND	16-Kb Microwire Serial EEPROM	8-SOIC	675.00/3,000		
CAT25010LI-G-ND	1-Kb SPI Serial CMOS EEPROM	8-Dip	.70	.55	.48
CAT25010VI-G-ND	1-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.57	.43	.37
CAT25010VI-GT3CT-ND	1-Kb SPI Serial CMOS EEPROM	8-SOIC	.60	.43	.37
CAT25010VI-GT3TR-ND	1-Kb SPI Serial CMOS EEPROM	8-SOIC	507.00/3,000		
CAT25010YI-G-ND	1-Kb SPI Serial CMOS EEPROM ***NEW!***	8-TSSOP	.57	.43	.37
CAT25010YI-GT3CT-ND	1-Kb SPI Serial CMOS EEPROM	8-TSSOP	.52	.37	.31
CAT25010YI-GT3TR-ND	1-Kb SPI Serial CMOS EEPROM	8-TSSOP	507.00/3,000		
CAT25020LI-G-ND	2-Kb SPI Serial CMOS EEPROM	8-Dip	.74	.58	.50
CAT25020VI-G-ND	2-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.62	.48	.42
CAT25020VI-GT3CT-ND	2-Kb SPI Serial CMOS EEPROM	8-SOIC	.55	.39	.33
CAT25020VI-GT3TR-ND	2-Kb SPI Serial CMOS EEPROM	8-SOIC	435.00/3,000		
CAT25040VI-G-ND	4-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.66	.52	.45
CAT25040VI-GT3CT-ND	4-Kb SPI Serial CMOS EEPROM	8-SOIC	.68	.48	.41
CAT25040VI-GT3TR-ND	4-Kb SPI Serial CMOS EEPROM	8-SOIC	579.00/3,000		
CAT25040YI-GT3CT-ND	4-Kb SPI Serial CMOS EEPROM	8-TSSOP	.59	.41	.36
CAT25080VI-G-ND	8-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.76	.60	.52
CAT25080VI-GT3CT-ND	8-Kb SPI Serial CMOS EEPROM	8-SOIC	.67	.48	.41
CAT25080YI-GT3CT-ND	8-Kb SPI Serial CMOS EEPROM	8-TSSOP	.79	.55	.48

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(Continued)

MEMORY — *RoHS Compliant* (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT25080YI-GT3TR-ND	8-Kb SPI Serial CMOS EEPROM	8-TSSOP	663.00/3,000		
CAT25128VI-G-ND	128-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	1.51	1.21	1.06
CAT25160LI-G-ND	16-Kb SPI Serial CMOS EEPROM ***NEW!***	8-Dip	.98	.79	.69
CAT25160VI-G-ND	16-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.83	.65	.56
CAT25160VI-GT3CT-ND	16-Kb SPI Serial CMOS EEPROM	8-SOIC	.68	.53	.47
CAT25160VI-GT3TR-ND	16-Kb SPI Serial CMOS EEPROM	8-SOIC	675.00/3,000		
CAT25160YI-G-ND	16-Kb SPI Serial CMOS EEPROM ***NEW!***	8-TSSOP	.90	.71	.62
CAT25160YI-GT3CT-ND	16-Kb SPI Serial CMOS EEPROM	8-TSSOP	.68	.53	.47
CAT25160YI-GT3TR-ND	16-Kb SPI Serial CMOS EEPROM	8-TSSOP	675.00/3,000		
CAT25256LI-G-ND	256-Kb SPI Serial CMOS EEPROM ***NEW!***	8-Dip	2.22	1.79	1.61
CAT25256VI-G-ND	256-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	1.80	1.46	1.31
CAT25256YI-G-ND	256-Kb SPI Serial CMOS EEPROM ***NEW!***	8-TSSOP	1.80	1.46	1.31
CAT25320LI-G-ND	32-Kb SPI Serial CMOS EEPROM	8-Dip	1.24	1.00	.87
CAT25320VI-G-ND	32-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	.96	.77	.68
CAT25320VI-GT3CT-ND	32-Kb SPI Serial CMOS EEPROM	8-SOIC	.82	.64	.56
CAT25320VI-GT3TR-ND	32-Kb SPI Serial CMOS EEPROM	8-SOIC	810.00/3,000		
CAT25320YI-GT3CT-ND	32-Kb SPI Serial CMOS EEPROM	8-TSSOP	.70	.55	.49
CAT25640VI-G-ND	64-Kb SPI Serial CMOS EEPROM ***NEW!***	8-SOIC	1.13	.91	.80
	Parallel EEPROMs				
CAT28C16ALI90-ND	16-Kb, 90nS, CMOS Parallel EEPROM	24-Dip	9.19	7.54	6.80
CAT28C16AWI-90TCT-ND	16-Kb, 90nS, CMOS Parallel EEPROM	24-SOIC	3.73	3.05	2.74
CAT28C64BLI12-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-Dip	4.88	3.93	3.58
CAT28C64BWI-12TCT-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-SOIC	7.34	6.00	5.38
CAT28C64BWI-12TTR-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-SOIC	2029.50/500		
CAT28C256HI-12TCT-ND	256-Kb, 120nS, Parallel EEPROM	28-TSOP	9.10	7.00	6.30
CAT28C256HI-12TTR-ND	256-Kb, 120nS, Parallel EEPROM	28-TSOP	1938.50/500		
	Flash Memory				
CAT28F020G-12T-ND	2-Mb, 120nS, CMOS Flash Memory ***NEW!***	32-PLCC	14.16	11.91	10.94
CAT28F020G-90TTR-ND	2-Mb, 90nS, CMOS Flash Memory ***NEW!***	32-PLCC	5753.00/500		
CAT28F020LI12-ND	2-Mb, 120nS, CMOS Flash Memory	32-Dip	9.39	7.90	7.26

ADVANCED CLOCK GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
	Clock Generators				
MC88LV926DWR2CT-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	9.28	8.41	7.71

ANALOG

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MC3PHACVDWE-ND	High Performance Mono Intelligent Motor Controller	28-SOIC	9.63	9.10	8.56
MC3PHACVPE-ND	High Performance Mono Intelligent Motor Controller	28-Dip	9.63	9.10	8.56
MC3PHACVFAE-ND	High Performance Mono Intelligent Motor Controller*	32-QFP	10.15	9.14	8.33
MC13820FCR2CT-ND	Low Noise Amp with Bypass Switch	12-QFN	1.39	1.25	1.10
MC33186VW1-ND	20kHz Automotive H-Bridge Driver*	20-HSOP	11.80	10.62	9.68
MC33287DWR2CT-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.83	2.43	2.19
MC33287DWR2TR-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	1322.00/1,000		
MC33389DDWR2CT-ND	System Base Chip with CAN	28-SOIC	9.32	8.45	7.74
MC33389DDWR2TR-ND	System Base Chip with CAN	28-SOIC	5792.00/1,000		
MC33886VW-ND	5.2A Output H-Bridge*	20-HSOP	7.78	7.00	6.38
MC33887PNB-ND	5.0A H-Bridge with Load Current Feedback*	36-PQFN	7.93	7.14	6.50
MC33888FB-ND	Quad High Side and Octal Low Side Switch	64-QFP	10.83	9.85	9.11
MC33981BPNA-ND	4m-Ohm Single High Side Switch	16-PQFN	7.38	6.64	6.05
MC34673AEPR2CT-ND	1.2A Li-Ion/Li-Pol Battery Charger*	8-UDFN	.98	.88	.83
MC34673AEPR2TR-ND	1.2A Li-Ion/Li-Pol Battery Charger*	8-UDFN	1522.80/3,000		
MC34713EP-ND	5A, 1MHz Fully Integrated Switch-Mode Power Supply*	24-QFN	2.60	2.46	2.32
MC34716EP-ND	1MHz Dual Switch-Mode DDR Power Supply*	26-QFN	3.56	3.36	3.17
MC34717EP-ND	5A, 1MHz Fully Integrated Dual Switch-Mode Power Supply*	26-QFN	3.56	3.36	3.17
MC34923EGR2CT-ND	Full-Bridge PWM Motor Driver*	24-SOIC	7.95	7.10	6.68
MC34923EGR2TR-ND	Full-Bridge PWM Motor Driver*	24-SOIC	5103.00/1,000		
MCZ33285EF-ND	Dual High-Side TMOS Driver*	8-SOIC	2.12	1.92	1.72
MCZ33287EG-ND	Contact Monitoring/Dual Low-Side Protected Driver*	20-SOIC	2.59	2.32	2.08
MCZ33399EF-ND	Local Interconnect Network Physical Interface (LIN)*	8-SOIC	1.34	1.22	1.09
MCZ33689DEW-ND	System Basis Chip with LIN Transceiver*	32-SOIC	4.03	3.60	3.24
MCZ33742EG-ND	System Basis Chip w/ Enhanced High Speed CAN Xcvr*	28-SOIC	5.21	4.65	4.19
MCZ33742SEG-ND	System Basis Chip w/ Enhanced High Speed CAN Xcvr*	28-SOIC	5.57	4.98	4.48
MCZ33780EG-ND	Dual DBUS Master with Differential Drive and Frequency Spreading*	16-SOIC	6.73	6.36	5.98
MCZ33790EG-ND	2-Channel DSI Physical Interface for Bus Master*	16-SOIC	3.46	3.27	3.08
MCZ33790EGR2CT-ND	2-Channel DSI Physical Interface for Bus Master*	16-SOIC	4.73	4.23	3.98
MCZ33793EF-ND	DSI Sensor Interface*	16-SOIC	2.72	2.57	2.42
MCZ33793EFR2CT-ND	DSI Sensor Interface*	16-SOIC	3.16	2.83	2.66
MCZ33793EFR2TR-ND	DSI Sensor Interface*	16-SOIC	5020.00/2,500		
MCZ33879AEKR2CT-ND	Configurable Octal Serial Switch*	32-SOIC	5.43	4.89	4.44
MCZ33879AEKR2TR-ND	Configurable Octal Serial Switch*	32-SOIC	2534.00/1,000		
MCZ33883EG-ND	H-Bridge Gate Driver IC*	20-SOIC	5.71	5.10	4.59
MCZ33887EK-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	6.25	5.63	5.13
MCZ33887EKR2CT-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	6.63	6.00	5.50
MCZ33887EKR2TR-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	3375.00/1,000		
MCZ33970EG-ND	Dual Gauge Driver Integrated Circuit*	24-SOIC	4.96	—	—
MCZ33970EGR2CT-ND	Dual Gauge Driver Integrated Circuit*	24-SOIC	3.72	3.33	3.13
MCZ33972AEK-ND	Multiple Switch Detection Interface*	32-SOIC	4.93	4.40	3.96
MCZ33972AEW-ND	Multiple Switch Detection Interface*	32-SOIC	4.26	3.80	3.42
MCZ33975AEK-ND	Multiple Switch Detection Interface*	32-SOIC	4.96	4.43	3.99
MCZ34670EG-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	3.44	3.25	3.06
MCZ34670EGR2CT-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	3.72	3.33	3.13
MCZ34670EGR2TR-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	1911.60/1,000		
MM908E624ACEW-ND	Integrated Triple High Side Switch with Embedded MCU and LIN*	54-SOIC	6.93	6.24	5.69
MM908E626AVEK-ND	Stepper Motor Driver with Embedded MCU and LIN*	54-SOIC	11.03	9.93	9.05
MPC17C724EP-ND	0.4A Dual H-Bridge Motor Driver*	16-QFN	1.07	1.01	.96
MPC17510EJ-ND	1.2A, 15V H-Bridge Motor Driver*	24-TSSOP	3.60	3.40	3.20
MPC17511AEV-ND	1.0A, 6.8V H-Bridge Motor Driver*	16-VMFP	1.48	1.40	1.32
MPC17533EV-ND	0.7A, 6.8V Dual H-Bridge Motor Driver*	16-VMFP	1.71	1.62	1.52
MPC17550EVELCT-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5.50	4.95	4.49
MPC17550EVELTR-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5626.00/2,000		
MW4IC2230GNBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272-16	20858.40/500		
MW4IC2230NBR1CT-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272-16	45.47	43.08	39.73

ANALOG (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MW4IC2230NBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272-16	17092.50/500		
MWIC930GNR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272-16	33.00	31.27	28.84
MWIC930NR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272-16	39.96	37.86	34.91
MWIC930NR1TR-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272-16	13985.00/500		
KIT33880DWBEVB-ND	Evaluation Kit for MC33880	—	134.20	—	—

POWER MANAGEMENT
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MC34704AEPR2CT-ND	Multi-Channel DC-DC 8 Regulator Power Management IC	56-QFN	6.72	6.00	5.64
MC34704AEPR2TR-ND	Multi-Channel DC-DC 8 Regulator Power Management IC	56-QFN	6912.00/2,000		
MC34704BEPR2CT-ND	Multi-Channel DC-DC 5 Regulator Power Management IC	56-QFN	5.52	4.93	4.63
MC34704BEPR2TR-ND	Multi-Channel DC-DC 5 Regulator Power Management IC	56-QFN	5680.81/2,000		
MC34726BFCR2CT-ND	300mA Synchronous Buck Regulator with Z-Mode	8-μDFN	1.82	1.63	1.53
MC34726BFCR2TR-ND	300mA Synchronous Buck Regulator with Z-Mode	8-μDFN	2818.80/3,000		
MC34727AFCR2CT-ND	600mA Synchronous Buck Regulator with Z-Mode	8-μDFN	1.90	1.70	1.60
MC34727AFCR2TR-ND	600mA Synchronous Buck Regulator with Z-Mode	8-μDFN	2916.00/3,000		
MC34727BFCR2CT-ND	600mA Synchronous Buck Regulator with Z-Mode	8-μDFN	1.90	1.70	1.60
MC34727BFCR2TR-ND	600mA Synchronous Buck Regulator with Z-Mode	8-μDFN	2916.00/3,000		

DISPLAY DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MC14489BDWE-ND	5-Channel LED Display/25 Lamp Driver	20-SOIC	5.60	5.00	4.50
MC14489BPE-ND	5-Channel LED Display/25 Lamp Driver	20-Dip	5.04	4.50	4.05
MC34844EP-ND	10-Channel LED Backlight Driver ***NEW!***	32-QFN	5.01	4.48	4.03
KIT34844EPEVME-ND	Evaluation Board for MC34844 ***NEW!***	—	118.00	—	—

MICROPROCESSORS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MC812A4CPVE8-ND	16-Bit Microprocessor	112-LQFP	21.56	19.95	18.33
MMC2001HCAB33B-ND	32-Bit, 33MHz Microprocessor	144-LQFP	33.63	31.77	29.90

INTERFACE — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MC44BC375UAEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2.23	1.91	1.72
MC44BC375UEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2.23	1.91	1.72

RF/IF PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
	Frequency Conversion				
MC13770FCCT-ND	RF LNA Down Converter	12-QFN	3.31	2.99	2.71
	Receivers/Transmitters				
MC33591FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.88	4.40	3.99
MC33591FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4998.00/2,000		
MC33592FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.88	4.40	3.99
MC33594FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	5.89	5.31	4.81
MC33594FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6028.00/2,000		
MC33696FCE-ND	PLL Tuned UHF Transceiver for Data Transfer Applications*	32-QFN	3.81	3.60	3.39

EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
A80C186ECI	802919-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	132-CPGA	46.17	43.46	38.71
SB80C186EC13	808819-ND	13MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	16.48	15.25	12.98
SB80C186XL12	808823-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	9.13	8.31	7.06
TR80C186XL12	803091-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	37.80	33.60	26.88
TN80L186EA13	806072-ND	13MHz, 16-Bit, 80L186EA Enhanced MPU, 3V, Extended Temperature	68-PLCC	11.39	10.36	8.81
S80L186EB16	806099-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temperature	80-MQFP	14.02	12.75	10.83
SB80L186EB13	808880-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temperature	80-SQFP	9.13	8.31	7.06
KU80L186EC13	806111-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temperature	100-QFP	16.28	14.80	12.58
S80L186EC16	808881-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temperature	100-MQFP	15.93	14.49	12.32
SB80L186EC13	809626-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temperature	100-SQFP	16.48	15.25	12.98
SB80C188EC13	803618-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	16.48	15.25	12.98
YW80C188EC20	864139-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature*	100-SQFP	16.48	15.25	12.98
S80C188XL12	803759-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	9.74	8.77	7.21
SB80C188XL12	803769-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	10.04	9.13	7.76
N80L188EB16	806163-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temperature	84-PLCC	12.48	11.35	9.65
SB80L188EC13	806197-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temperature	100-SQFP	13.29	12.09	10.28
SB80L188EC16	809627-ND	16MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temperature	100-SQFP	13.29	12.09	10.28
TS80L188EC13	808882-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Ext. Temp.	100-MQFP	15.93	14.49	12.32

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS (Cont.)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
NG88CO196EC40	859794-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory	132-QFP	18.13	16.77	14.28
A80386DX16	807050-ND	16MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	38.20	35.63	30.98
NG80386DX20	807082-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	10.67	9.70	8.25
NG80386DX25	807111-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	10.67	9.70	8.25
NG80386DX33	807141-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	10.67	9.70	8.25
KU80386SXTA25	800169-ND	25MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	11.57	10.53	8.95
KU80386SXTA33	800175-ND	33MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	11.57	10.53	8.95
KU80386SXTA40	800183-ND	40MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	11.57	10.53	8.95
NG80386SX33	800353-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	9.40	8.55	7.27
NG80386SXLP20	800112-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	11.75	10.69	9.09
NG80386SXLP25	800134-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	9.40	8.55	7.27
NG80386SXLP33	800149-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	9.40	8.55	7.27
A80486DX2SA50SX912	800940-ND	50MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	43.55	40.61	35.32
SB80486DX2SC50SX920	800952-ND	50MHz, 32-Bit, 486DX2 MPU, 3.3V	208-SQFP	29.86	27.63	23.52
FA80486GXSF33	801241-ND	33MHz, 32-Bit, 486GX MPU, 3.3V	176-TQFP	25.96	24.01	20.45
A80486SXSA33SX931	801301-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	49.27	46.37	41.30
KC80524KX366128SL3C7	822451-ND	366MHz, LP Celeron, 66MHz Bus, 128K L2 Cache, 1.6V	615-BGA	87.86	82.37	77.88
KC80526LY400128SL4J8	830981-ND	400MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.3V	495-BGA	65.74	61.76	56.64
KC80526LY400128SL544	833480-ND	400MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.35V	495-BGA	61.63	57.90	53.10
LE80535NC013512	870148-ND	1.3GHz Celeron M Proc.*	478-BGA	61.63	57.90	53.10
GC80503CS166EXTSL3B8	822631-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.8V, Low Power	352-BGA	54.78	51.46	47.20
GC80503CSM66166SL388	821225-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	54.78	51.46	47.20
KC80526LY400256SL546	833482-ND	400MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	95.39	89.14	—
RJ80535LC0051MSL6NC	851287-ND	1.1GHz, Pentium M	478-MFC-PGA	299.72	—	—
RH80532GC029512S L6FG	848089-ND	1.7GHz, Pentium 4 Mobile, 400MHz Bus, 512K L2 Cache, 1.3V	478-µFC-BGA	201.23	195.88	—
RK80532EC025512SL6XK	852509-ND	1.6GHz, Xeon LV	604-FC-mPGA-2P	242.44	236.00	—
RK80532EC041512SL6XL	852510-ND	2GHz, Xeon LV	604-FC-mPGA-2P	248.50	241.90	—

STRONG ARM® PROCESSOR

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
21281DB	821351-ND	166MHz, Strong Arm SA-110 Microprocessor	144-TQFP	24.31	22.49	19.15

NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
GCIXP1200EB	829764-ND	2V, 200MHz, Network Processor	432-BGA	229.59	223.50	—
GCIXP1200FC	833956-ND	2V, 232MHz, Network Processor	432-BGA	299.96	—	—
GCIXP1200GA	839427-ND	2V, 166MHz, Network Processor	432-BGA	174.56	169.92	—
GCIXP1200GB	839428-ND	2V, 200MHz, Network Processor	432-BGA	229.11	223.02	—
GCIXP1200GC	839429-ND	2V, 232MHz, Network Processor	432-BGA	299.72	—	—
GCIXP1240AA	837150-ND	2V, 166MHz, Network Processor, CRC Support	432-BGA	235.65	229.40	—
GCIXP1240AB	837151-ND	2V, 200MHz, Network Processor, CRC Support	432-BGA	289.72	282.02	—
GCIXP1250BA	837411-ND	2V, 166MHz, Network Processor, CRC and ECC Support	520-BGA	230.56	224.44	—
GCIXP1250BB	837412-ND	2V, 200MHz, Network Processor, CRC and ECC Support	520-BGA	301.84	293.82	—
GCIXP1250BC	837414-ND	2V, 232MHz, Network Processor, CRC and ECC Support	520-BGA	370.52	—	—

I/O PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
GC80303 S L57T	833962-ND	100MHz, 3.3V, 64-Bit PCI-PCI Bridge	540-BGA	97.17	90.80	—
GC80960RM100SL3YZ	827794-ND	100MHz, 3.3V, 32-Bit PCI-PCI Bridge	540-BGA	82.29	77.16	72.95

MCS® 51 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
N80C51RA24	804579-ND	5V, 24MHz, 8-Bit MCU	44-PLCC	5.27	4.71	3.86
EE87C51RB1	864637-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM*	44-PLCC	6.97	6.28	5.16
S80C51RA1	804523-ND	5V, 16MHz, 8-Bit MCU	44-MQFP	5.27	4.71	3.86
S80C51RA24	804592-ND	5V, 24MHz, 8-Bit MCU	44-MQFP	5.27	4.71	3.86
TS80C51RA1	804534-ND	5V, 16MHz, 8-Bit MCU Ext. Temp.	44-MQFP	5.61	5.01	4.11
TS80C51RA24	804603-ND	5V, 24MHz, 8-Bit MCU Ext. Temp.	44-MQFP	5.61	5.01	4.11
TS87C51FA1SF76	811518-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU, Extended Temp.	44-QFP	6.05	5.45	4.48
QX87C51FC20	863910-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Automotive*	44-PLCC	16.50	15.26	13.00
S87C51FA1SF76	804439-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	5.74	5.17	4.25
S87C51FA24SF76	810749-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	5.74	5.17	4.25
S87C51FB24SF76	811017-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	6.15	5.54	4.56
S87C51FB33SF76	811019-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-MQFP	6.77	6.09	5.01
S87C51FC1SF76	806104-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.97	6.28	5.16
S87C51FC24SF76	811081-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.97	6.28	5.16
S87C51RA24	807154-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	6.15	5.54	4.56
S87C51RB1	807279-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	6.97	6.28	5.16
S87C51RB24	807314-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	6.97	6.28	5.16
S87C51RC1	800221-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.79	7.02	5.77
S87C51RC24	800375-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.23	5.61	4.62
TS87C51FA24SF76	810982-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-MQFP	6.05	5.45	4.48
TS87C51RA1	807033-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-MQFP	6.46	5.82	4.78
TS87C51RA24	807166-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-MQFP	6.46	5.82	4.78
TS87C51RB1	807285-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-MQFP	7.28	6.55	5.39

MCS® 51 MICROCONTROLLERS (Cont.)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS87C51RC24	800417-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temp.	44-MQFP	8.10	7.29	6.00
S87C521SF76	810770-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	4.81	4.30	3.53
TN87C5224SF76	819853-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	5.15	4.61	3.78
AN87C54F8	821116-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	11.18	10.16	8.64
N87C5433SF76	810721-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	6.31	5.69	4.68
S87C541SF76	810369-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	5.74	5.17	4.25
S87C5424SF76	810712-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	5.74	5.17	4.25
N87C581SF76	810724-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-PLCC	5.33	4.80	3.95
N87C5833SF76	810725-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	5.86	5.28	4.34
P87C581SF76	823402-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	5.33	4.80	3.95
P87C5820SF76	810728-ND	5V, 20MHz, 8-Bit, 32K OTP MCU	40-Dip	5.33	4.80	3.95
P87C5833SF76	810729-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	5.86	5.28	4.34
S87C581SF76	810734-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	5.33	4.80	3.95

MCS® 96 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
S80C196NU40	804302-ND	5V, 40MHz, 16-Bit Event Processor Array MCU	100-QFP	13.02	11.84	10.07
AN87C196JRF8	821035-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	52-PLCC	15.37	13.98	11.88
AN87C196JTWB20	828470-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	52-PLCC	16.28	14.80	12.58
AN87C196JV20F8	821068-ND	5V, 20MHz, 16-Bit, 48K OTP MCU	52-PLCC	19.78	18.30	15.58
AN87C196LA20F8	821030-ND	5V, 20MHz, 16-Bit, 24K OTP MCU	52-PLCC	26.38	24.41	20.78
U87C196MC	803558-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	16.28	14.80	12.58

MCS® 251 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TP87C251SP16	804036-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	7.34	6.61	5.44
TP87C251SQ16	804103-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	7.91	7.13	5.86

i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
A80960CA16	802846-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache*	168-PGA	48.04	45.22	40.28
A80960CF25	803021-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache*	168-PGA	62.42	58.64	53.79
A80960CF40	803133-ND	40MHz, i960CF, 32-Bit MPU with DMA, 4K Cache*	168-PGA	89.94	84.32	79.73
A80960HA33SL2GY	813629-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	62.75	58.95	54.07
A80960HD50SL2GH	815231-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	168-CPGA	68.73	64.44	60.93
A80960HT75SL2GP	814114-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	83.16	77.97	73.72
A80960JA3V25	819528-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	38.68	36.07	31.36
A80960JA3V33	819529-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache*	132-PGA	42.23	39.75	35.40
A80960JD3V33	819533-ND	33MHz, i960JD, 32-Bit MPU, 16MHz Bus, 3.3V, 4K Cache*	132-PGA	49.27	46.37	41.30
A80960JD3V50	819536-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	54.95	51.72	46.07
A80960JD3V66	819538-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache*	132-QFP	60.26	56.61	51.92
A80960JF3V25	819540-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache*	132-PGA	49.27	46.37	41.30
A80960KB16	803496-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	31.07	28.97	25.19
A80960KB20	803516-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache*	132-PGA	39.27	36.62	31.85
FC80960HA25SL2GU	813626-ND	25MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	48.70	45.84	40.83
FC80960HA33SL2GV	813627-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	54.57	51.37	45.75
FC80960HA40SL2GW	813625-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	55.59	52.22	47.90
FC80960HD32SL2GL	815243-ND	32MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	56.48	53.06	48.67
FC80960HD50SL2GM	815241-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	60.46	56.80	52.10
UG80960HD66SL2GN	864025-ND	66MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache*	208-SQFP	68.46	64.19	60.69
FC80960HT75SL2GT	815234-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	72.16	67.66	63.97
GD80960JA25	820061-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	22.30	20.63	17.56
GD80960JF33	819771-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	196-BGA	32.56	30.37	26.41
KU80960CA16	802858-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	196-QFP	48.06	45.23	40.29
KU80960CF25	803044-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	70.78	63.33	51.22
N80960SA10	803819-ND	10MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	15.37	13.98	11.88
N80960SA20	803859CT-ND	20MHz, i960SA, 32-Bit MPU, 5V	84-PLCC	17.85	17.41	14.73
NG80960JA3V25	819545-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	21.18	19.59	16.68
NG80960JA3V33	819546-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	27.83	25.75	21.92
NG80960JC33	820340-ND	33MHz, i960JC, 32-Bit MPU, 16MHz Bus, 16K Cache	132-PQFP	40.19	37.48	32.59
NG80960JC66	820343-ND	66MHz, i960JC, 32-Bit MPU, 33MHz Bus, 16K Cache	132-PQFP	28.02	25.92	22.07
NG80960JC50	820342-ND	50MHz, i960JC, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	44.21	41.23	35.85
NG80960JD3V40	819550-ND	40MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	37.18	34.67	30.15
NG80960JD3V50	819551-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	43.37	40.44	35.17
NG80960JD3V66	819553-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	45.66	42.58	37.03
NG80960JF3V25	819556-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	27.90	25.81	21.98
NG80960JS25	820348-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	18.95	17.54	14.93
NG80960JS33	820349-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	24.72	22.87	19.47
NG80960JT100	818018-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	53.46	50.32	44.82
NG80960KA16	803445-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	16.66	15.42	13.13
NG80960KA20	803464-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	19.48	18.02	15.34
NG80960KB16	803504-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	18.31	16.94	14.42
NG80960KB20	803523-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	20.45	18.92	16.11
TA80960KA20	803470-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.*	132-PGA	33.60	31.34	27.25
TA80960KB16	803510-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	34.47	32.15	27.96
TA80960KB20	803529-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.*	132-PGA	36.51	34.04	29.60
TG80960JA3V25	819558-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache, Extended Temp.	132-QFP	23.01	21.29	18.12
TG80960JC66	826102-ND	66MHz, i960JC, 32-Bit MPU, 16K Cache	132-PQFP	31.31	28.97	24.66
TG80960JS25	824382-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	30.29	28.02	23.86
TG80960JS33	825153-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	33.74	31.47	27.36

* RoHS Compliant

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(Continued)

(Cont.) i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TN80960SA16	803846-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	18.61	17.21	14.66

CONTROLLERS (PCI / LAN / WAN / CAN)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
FW82439HXSU115	807787CT-ND	82439HX System Controller (MHXC)	324-BGA	18.13	17.68	14.96
GD82550EYSL4MJ	830751-ND	Fast Ethernet Multifunction PCI/ Cardbus Controller	196-BGA	26.24	24.27	20.67
KU82596CA25SZ716	806726-ND	25MHz, 5V, LAN Coprocessor	132-QFP	26.37	24.39	20.77
KU82596DX25SZ714	806807-ND	25MHz, 5V, LAN Coprocessor	132-QFP	31.31	28.97	24.66
SCD223110QCD	832550-ND	2-Ch. Serial WAN Controller	100-MQFP	16.48	15.25	12.98
SCD240210QCM	832517-ND	Intelligent Multiprotocol WAN Communications Controller	160-QFP	16.28	14.80	12.58

ETHERNET CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
GD82550ELSL4MK	830748-ND	Ethernet PCI/CardBus Controller	196-BGA	26.78	24.78	21.09
GD82550GMSL4ML	831172-ND	Ethernet PCI/CardBus Controller	196-BGA	26.24	24.27	20.67
GD82550GYSL4Y5	833858-ND	Ethernet PCI/CardBus Controller	196-BGA	26.24	24.27	20.67
S82562EH	829047-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-QFP	9.04	8.22	6.99
S82595FX	806680-ND	ISA/PCMCIA High Integration Ethernet Controller	160-MQFP	23.07	21.35	18.17
SB82558BSL2P4	816075-ND	32-Bit Fast Ethernet PCI Bus Controller with Integrated PHY	208-SQFP	35.70	28.22	22.95
TL82543GCSL4AC	829160-ND	10/100/100 PCI Bus MAC Gigabit Ethernet Controller	352-BGA	76.17	71.42	67.52

ETHERNET TRANSCEIVERS / RECEIVERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DJLXT380LE.B4	832251-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	31.94	29.78	25.90
FLLXT386BEB2834206	834206-ND	Quad T1/E1/J1 Short-Haul Xcvr.	160-BGA	31.15	28.82	24.53
FWLXT9781BCA9831679	831679-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	17.14	15.86	13.50
FWLXT9782BCA9831681	831681-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	17.14	15.86	13.50
FWLXT9782BC.C4	834115-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	26.37	24.39	20.77
FWLXT9784BCA3834928	834928-ND	8-Port Fast Ethernet Xcvr (SMII, RMII)	324-BGA	49.27	46.37	41.30
FWLXT9784BE.A3	833561-ND	3.3V, 8-Port 10/100Mbps Xcvr (RMII, SMII)	324-BGA	49.27	46.37	41.30
HBLXT9761HCB2835066	835066-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	18.82	14.88	12.10
HBLXT9762HCB2835376	835376-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	18.82	14.88	12.10
HBLXT9763HCA9831634	831634-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	18.82	14.88	12.10
N82503	806119-ND	Dual Serial Ethernet Xcvr. (802.3 10BASE-T/AUI)	44-PLCC	11.75	9.25	7.00
NLXT307PE.F4	832110-ND	5V, E1 Short-Haul Xcvr.	28-PLCC	10.13	9.12	7.50
NLXT362PE.A3	832121-ND	1-Port Long-Haul T1 Serial Transceiver	28-PLCC	12.77	11.61	9.87
PDLXT305ANE.F4	832171-ND	5V, T1/E1 Short-Haul Xcvr.	28-Dip	16.45	12.95	9.80
S82503	806140-ND	Dual Serial Ethernet Transceiver (802.3, 10BASE-T/AUI)	44-MQFP	11.75	9.25	7.00
SLXT351QE.A2	832246-ND	1-Port Short-Haul T1/E1/J1 Parallel Xcvr	44-QFP	14.47	13.16	11.18
SLXT361QE.A2	832199-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-QFP	17.18	15.62	13.28

ETHERNET REPEATERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
HBLXT9863HCB3834131	834131-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	17.16	15.87	13.52
SLXT914QC.C4	831524-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	11.05	10.05	8.54

TELECOM BROADBAND

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
FLIXF6151BEA2834984	834984-ND	28 T1/E1 Mapper	352-BGA	79.21	74.26	70.21
IXF6401BEC7A1835148	835148-ND	Broadband Access Processor	352-BGA	250.32	—	—

PCI BRIDGE

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
21050AB	821286-ND	PCI-to-PCI Bridge	208-QFP	23.81	22.03	18.76

INTERFACE ADAPTERS/CARDS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DZPD6729VCE	832535-ND	PCI-to-PC Card Controller	208-LQFP	18.62	17.23	14.67
SPD6729QCC	832533-ND	PCI-to-PCMCIA Host Adapter	208-QFP	17.18	15.62	13.28
CNLA6000PK5	830447-ND	PRO/100 VE Desktop Adapter	—	163.10	158.77	—
MBLA3456C3	829957-ND	PRO/100 SR Combo Mobile Adapter	—	180.62	175.82	—

FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
RC28F800C3BD70	867943-ND	8Mb, 3V, FLASH Memory (1Mx8)*	64-BGA	2.18	1.97	1.58
GT28F160C3BA90SB93	823477-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	8.16	7.35	6.04
GT28F160C3TA110	819293-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.29	4.73	3.88
RC28F160C3BA110	830116-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.37	3.91	3.21
RD28F1604C3TD70SB93	855158-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	6.17	5.56	4.57
GE28F320C3BC90	830946-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	5.88	5.30	4.36
GT28F320B3BA100	823191-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16
GT28F320B3BA100SB93	823193-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	17.49	15.90	13.52
GT28F320B3TA100	823197-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16

(Cont.) FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
GT28F320B3TA100SB93	823211-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	15.73	14.31	12.16
GT28F320B3TA110	820972-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16
GT28F320C3BA100SB93	823207-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16
GT28F320C3BA110	820975-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	14.09	12.81	10.89
GT28F320C3TA100SB93	823213-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16
GT28F320C3TA110	820978-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	5.68	5.08	4.16
RC28F320C3BA110	828110-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	7.89	7.11	5.85
RC28F320C3TA110	828112-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	7.89	7.11	5.85
RD38F1020C0ZBL0SB93	849856-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	8.73	7.86	6.47
RD38F1020C0ZTL0SB93	849853-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	9.55	8.60	7.07
RD38F1020W0YTQ0SB93	858995-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	7.56	6.81	5.60

DEMODULATION AND CODING PRODUCT

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
N2105CM	828541-ND	Digital CMOS QPSK Cable Demod.	68-PLCC	18.13	16.77	14.28

PERIPHERAL INTERFACE PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
GCIXB3208AA	831425-ND	8-Port, 32-Bit, IX Bus Peripheral Controller	352-BGA	86.26	80.87	76.47

MODEM CHIPSETS, CONTROLLERS, DSPs, AFEs

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
MD5660AMS101	830882-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, MD1724T11VCB)	—	12.66	—	—
MD5661AMV101	830883-ND	PCMCIA Modem Chipset (MD4451CVCB, MD5661DTLA, MD1724T11VCB)	—	12.66	—	—
MD5662AMS101	830884-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, (MD1724T11VCB, 2pcs)	—	16.97	—	—
MD5675TS101	830885-ND	USB Modem Chipset (MD4470CSCB, MD5660DTMA, MD1724T11VCB)	—	16.28	—	—
DQMD4451CVCB	830839-ND	5V, 4451CV Controller	128-LQFP	6.15	5.54	4.56
FYMD4450CSCB	830837-ND	5V, 4450CS Controller	128-SQFP	6.15	5.54	4.56
FYMD4450CVCB	830890-ND	5V, 4450CV Controller	128-SQFP	12.77	11.61	9.87
FYMD4470CSCB	830849-ND	5V, 4470CS Controller	128-SQFP	12.44	11.32	9.62
DJMD5628DLB	830836-ND	3.3V, 5628 Digital Signal Proc.	100-LQFP	7.18	6.46	5.31
DQMD5661DTLA	830848-ND	3.3V, 5661 Digital Signal Proc.	128-LQFP	6.15	5.54	4.56
FYMD5660DTMA	830842-ND	3.3V, 5660 Digital Signal Proc.	128-SQFP	6.15	5.54	4.56
FYMD8820	830850-ND	3.3V, 8820 Digital Signal Proc.	128-SQFP	38.42	35.83	31.15
DYMD1724T11VCB	830851-ND	5V, Sigma-Delta Analog Front End	44-LQFP	2.29	2.05	1.68

XSCALE™ STORAGE PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
FW80219M600SL7CM	858207-ND	32-Bit, GP, High Perf. PCI Processor w/ Xscale Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	45.75	43.06	38.35
FW80321M600SL6R3	850667-ND	32-Bit, High Perf. PCI Processor with Xscale Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	104.79	97.92	—

XSCALE™ NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
FWIXP421BB	852277-ND	266MHz Network Processor with Xscale Core, 2 HSS Serial Ports	492-BGA	23.57	21.80	18.56
FWIXP425BB	852264-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	18.03	16.68	14.20
FWIXP425BD	852279-ND	533MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	39.46	36.79	32.00

FLASH MEMORY

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
		SLC Large Page Series — RoHS Compliant				
NAND01GW3B2CZA6E	NAND01GW3B2CZA6E-ND	1Gb NAND Flash Memory ***NEW!***	63-VFBGA	6.92	6.18	5.07
NAND02GAH0IZC5E	NAND02GAH0IZC5E-ND	2Gb NAND Flash Memory ***NEW!***	153-LFBGA	42.75	36.10	30.40
NAND02GR3B2DN6E	NAND02GR3B2DN6E-ND	2Gb NAND Flash Memory ***NEW!***	48-TSOP	7.56	6.72	5.32
NAND02GR3B2DZA6E	NAND02GR3B2DZA6E-ND	2Gb NAND Flash Memory	63-VFBGA	8.27	7.45	6.12
NAND02GW3B2DN6E	NAND02GW3B2DN6E-ND	2Gb NAND Flash Memory	48-TSOP	8.27	7.45	6.12
NAND02GW3B2DZA6E	NAND02GW3B2DZA6E-ND	2Gb NAND Flash Memory	63-VFBGA	8.27	7.45	6.12
NAND04GR3B2DN6E	NAND04GR3B2DN6E-ND	4Gb NAND Flash Memory ***NEW!***	48-TSOP	12.50	11.37	9.66
NAND04GW3B2DN6E	NAND04GW3B2DN6E-ND	4Gb NAND Flash Memory	48-TSOP	12.50	11.37	9.66
NAND04GW3C2BN6E	NAND04GW3C2BN6E-ND	4Gb NAND Flash Memory ***NEW!***	48-TSOP	12.50	11.36	9.66
NAND08GAH0BZA5E	NAND08GAH0BZA5E-ND	8Gb NAND Flash Memory ***NEW!***	169-LFBGA	28.66	26.52	22.57
NAND08GAH0FZC5E	NAND08GAH0FZC5E-ND	8Gb NAND Flash Memory ***NEW!***	153-LFBGA	28.66	26.52	22.57
NAND16GW3B6DPA6E	NAND16GW3B6DPA6E-ND	16Gb NAND Flash Memory ***NEW!***	114-LFBGA	45.29	42.23	36.72
NAND16GW3B6DPA6F	NAND16FCT-ND	16Gb NAND Flash Memory ***NEW!***	114-LFBGA	46.51	44.07	37.95
NAND16GW3B6DPA6F	NAND16GW3B6DPA6FTR-ND	16Gb NAND Flash Memory ***NEW!***	114-LFBGA	56181.60/1,800		
NAND128W3A2BN6E	NAND128W3A2BN6E-ND	128Mb NAND Flash Memory	48-TSOP	5.22	4.66	3.82
NAND256W3A0BZA6E	NAND256W3A0BZA6E-ND	256Mb NAND Flash Memory ***NEW!***	55-VFBGA	6.01	5.37	4.40
NAND512R3A2DZA6E	NAND512R3A2DZA6E-ND	512Mb NAND Flash Memory ***NEW!***	63-VFBGA	6.44	5.18	4.72
NAND512W3A2DN6E	NAND512W3A2DN6E-ND	512Mb NAND Flash Memory ***NEW!***	48-TSOP	6.43	5.17	4.71
NAND512W3A2DZA6E	NAND512W3A2DZA6E-ND	512Mb NAND Flash Memory ***NEW!***	63-VFBGA	6.44	5.18	4.72

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

numonyx™ (Cont.) FLASH MEMORY

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
C3 Series						
GE28F160C3TD70A	853978-ND	16Mb, 3V, Flash Memory (1Mx16)	46-BGA	3.75	3.44	2.63
M29EW Series						
JS28F256M29EWLA	JS28F256M29EWLA-ND	256Mb, 3V Axcell™ Flash Memory*	56-TSOP	13.18	12.20	9.28
JS28F256M29EWHA	JS28F256M29EWHA-ND	256Mb, 3V Axcell™ Flash Memory*	56-TSOP	13.18	12.20	9.28
PC28F256M29EWLA	PC28F256M29EWLA-ND	256Mb, 3V Axcell™ Flash Memory* ***NEW!***	64-EZBGA	13.18	12.20	9.28
PC28F256M29EWHA	PC28F256M29EWHA-ND	256Mb, 3V Axcell™ Flash Memory* ***NEW!***	64-EZBGA	13.18	12.20	9.28
JS28F512M29EWHA	JS28F512M29EWHA-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	56-TSOP	14.05	13.21	9.84
JS28F512M29EWLA	JS28F512M29EWLA-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	56-TSOP	14.05	13.21	9.84
PC28F512M29EWHA	PC28F512M29EWHA-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	56-TSOP	12.34	11.22	9.54
PC28F512M29EWHD	PC28F512M29EWHD-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	64-BGA	12.34	11.22	9.54
PC28F512M29EWLA	PC28F512M29EWLA-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	64-BGA	12.36	11.24	9.56
PC28F512M29EWLE	PC28F512M29EWLE-ND	512Mb, 2.7V Axcell™ Flash Memory* ***NEW!***	64-BGA	12.36	11.24	9.56
RC28F512M29EWLA	RC28F512M29EWLA-ND	512Mb, 2.7V Axcell™ Flash Memory ***NEW!***	64-BGA	13.33	12.53	9.33
JS28F00AM29EWLA	JS28F00AM29EWLA-ND	1Gb, 2.7V Axcell™ Flash Memory* ***NEW!***	56-TSOP	20.12	17.88	14.31
PC28F00AM29EWHA	PC28F00AM29EWHA-ND	1Gb, 2.7V Axcell™ Flash Memory* ***NEW!***	64-FBGA	19.67	17.88	15.20
RC28F00AM29EWHA	RC28F00AM29EWHA-ND	1Gb, 2.7V Axcell™ Flash Memory ***NEW!***	64-BGA	20.12	17.88	14.31
RC28F00AM29EWLA	RC28F00AM29EWLA-ND	1Gb, 2.7V Axcell™ Flash Memory ***NEW!***	64-BGA	20.12	17.88	14.31
M58LR Series — RoHS Compliant						
M58LR256KB70ZC5E	M58LR256KB70ZC5E-ND	256Mb 1.8V, Flash Memory (16Mx16)	79-VFBGA	8.12	6.44	6.16
NEW! P30 Series NEW!						
RC28F00AP30TFA	RC28F00AP30TFA-ND	1Gb 1.8V Axcell™ Flash Memory	64-EZBGA	19.78	17.58	14.07
NEW! P33 Series — RoHS Compliant NEW!						
PC28F512P33EFA	PC28F512P33EFA-ND	512Mb 2.3V Axcell™ Flash Memory	64-EZBGA	16.28	15.30	11.40
PC28F00AP33BFA	PC28F00AP33BFA-ND	1Gb 2.3V Axcell™ Flash Memory	64-EZBGA	20.57	18.70	15.90
PC28F00AP33EFA	PC28F00AP33EFA-ND	1Gb 2.3V Axcell™ Flash Memory	64-EZBGA	20.57	18.70	15.90
PC28F00AP33TFA	PC28F00AP33TFA-ND	1Gb 2.3V Axcell™ Flash Memory	64-EZBGA	20.57	18.70	15.90
NEW! Secure Flash Memory — RoHS Compliant NEW!						
M58LT256JSB8ZA6F	M58LT256JSB8ZA6FCT-ND	256Mb (16Mx16), 1.8V Flash Memory	64-TBGA	12.93	11.81	10.12
M58LT256JSB8ZA6F	M58LT256JSB8ZA6FTR-ND	256Mb (16Mx16), 1.8V Flash Memory	64-TBGA	17915.00/2,500		

numonyx™ DigiReel® EMBEDDED FLASH

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
J3D Series						
TE28F320J3D75A	TE28F320J3D75A-ND	32Mb, 3V, Embedded Flash	56-TSOP	4.62	4.24	3.24
JS28F320J3D75A	JS28F320J3D75A-ND	32Mb, 3V, Embedded Flash*	56-TSOP	4.62	4.24	3.24
JS28F320J3D75E	JS28F320J3D75E-ND	32Mb, 3V, Embedded Flash*	56-TSOP	4.62	4.24	3.24
RC28F320J3D75E	RC28F320J3D75E-ND	32Mb, 3V, Embedded Flash	64-EZBGA	4.62	4.24	3.24
JS28F640J3D75A	JS28F640J3D75A-ND	64Mb, 3V, Embedded Flash*	56-TSOP	7.64	7.08	5.38
RC28F640J3D75D	RC28F640J3D75D-ND	64Mb, 3V, Embedded Flash	64-EZBGA	7.64	7.08	5.38
RC28F640J3D75A	RC28F640J3D75A-ND	64Mb, 3V, Embedded Flash	64-EZBGA	7.64	7.08	5.38
PC28F640J3D75A	PC28F640J3D75A-ND	64Mb, 3V, Embedded Flash*	64-EZBGA	7.64	7.08	5.38
PC28F640J3D75E	PC28F640J3D75E-ND	64Mb, 3V, Embedded Flash*	64-EZBGA	7.64	7.08	5.38
TE28F128J3D75 872762	872762CT-ND	128Mb, 3V, Embedded Flash	56-TSOP	15.68	14.21	11.27
RC28F128J3D75A	RC28F128J3D75A-ND	128Mb, 3V, Embedded Flash	64-EZBGA	13.23	12.25	9.31
PC28F128J3D75A	PC28F128J3D75A-ND	128Mb, 3V, Embedded Flash*	64-EZBGA	13.23	12.25	9.31
PC28F128J3D75E	PC28F128J3D75E-ND	128Mb, 3V, Embedded Flash*	64-EZBGA	13.23	12.25	9.31

numonyx™ DigiReel® StrataFlash®

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
P30 Series						
TE28F640P30B85A	TE28F640P30B85A-ND	64Mb, 1.8V, StrataFlash® Memory	56-TSOP	6.18	5.67	4.33
RC28F640P30T85A	RC28F640P30T85A-ND	64Mb, 1.8V, StrataFlash® Memory	64-EZBGA	6.18	5.67	4.33
PC28F640P30T85A	PC28F640P30T85A-ND	64Mb, 1.8V, StrataFlash® Memory*	64-EZBGA	6.18	5.67	4.33
TE28F128P30B85A	TE28F128P30B85A-ND	128Mb, 1.8V StrataFlash® Memory	56-TSOP	9.75	9.03	6.86
RC28F128P30B85A	RC28F128P30B85A-ND	128Mb, 1.8V StrataFlash® Memory	64-EZBGA	9.75	9.03	6.86
RD48F3000P0ZBQ0A	RD48F3000P0ZBQ0A-ND	128Mb, 1.8V StrataFlash® Memory	88-TPBGA	9.75	9.03	6.86
RD48F3000P0ZTQ0A	RD48F3000P0ZTQ0A-ND	128Mb, 1.8V StrataFlash® Memory	88-TPBGA	9.75	9.03	6.86
PF48F3000P0ZBQ0A	PF48F3000P0ZBQ0A-ND	128Mb, 1.8V StrataFlash® Memory*	88-TPBGA	9.75	9.03	6.86
PF48F3000P0ZTQ0A	PF48F3000P0ZTQ0A-ND	128Mb, 1.8V StrataFlash® Memory*	88-TPBGA	9.75	9.03	6.86
JS28F256P30TFA	JS28F256P30TFA-ND	256Mb, 1.8V StrataFlash® Memory*	56-TSOP	12.20	11.30	8.59
PC28F256P30BFA	PC28F256P30BFA-ND	256Mb, 1.8V StrataFlash® Memory*	64-EZBGA	12.20	11.30	8.59
PC28F256P30TFA	PC28F256P30TFA-ND	256Mb, 1.8V StrataFlash® Memory*	64-EZBGA	12.20	11.30	8.59
RC28F256P30BFA	RC28F256P30BFA-ND	256Mb, 1.8V StrataFlash® Memory	64-EZBGA	12.20	11.30	8.59
RC28F256P30TFA	RC28F256P30TFA-ND	256Mb, 1.8V StrataFlash® Memory	64-EZBGA	12.20	11.30	8.59
RD48F4400P0VBQ0A	RD48F4400P0VBQ0A-ND	512Mb, 1.8V StrataFlash® Memory	88-TPBGA	22.13	20.80	15.49
P33 Series						
TE28F640P33B85A	TE28F640P33B85A-ND	64Mb, 3V StrataFlash® Memory	56-TSOP	6.18	5.67	4.33
RC28F640P33B85A	RC28F640P33B85A-ND	64Mb, 3V StrataFlash® Memory	64-EZBGA	6.18	5.67	4.33
RC28F640P33T85A	RC28F640P33T85A-ND	64Mb, 3V StrataFlash® Memory	64-EZBGA	6.18	5.67	4.33
PC28F640P33B85D	PC28F640P33B85D-ND	64Mb, 3V StrataFlash® Memory*	64-EZBGA	6.18	5.67	4.33
JS28F128P33T85A	JS28F128P33T85A-ND	128Mb, 3V StrataFlash® Memory*	56-TSOP	9.75	9.03	6.86
PC28F128P33T85A	PC28F128P33T85A-ND	128Mb, 3V StrataFlash® Memory	64-EZBGA	9.75	9.03	6.86
PC28F128P33T85D	PC28F128P33T85D-ND	128Mb, 3V StrataFlash® Memory*	64-EZBGA	9.75	9.03	6.86
TE28F256P33T95A	TE28F256P33T95A-ND	256Mb, 3V StrataFlash® Memory	56-TSOP	12.85	12.08	9.00
TE28F256P33TFA	TE28F256P33TFA-ND	256Mb, 3V StrataFlash® Memory	56-TSOP	12.20	11.30	8.59
PF38F3050M0Y3DEA	PF38F3050M0Y3DEA-ND	128Mb, 1.8V NOR Flash*	56-SCSP	7.02	6.50	4.94

numonyx™ DigiReel® (Cont.) StrataFlash®

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
PF38F4050M0Y3CFA	PF38F4050M0Y3CFA-ND	256Mb, 1.8V NOR Flash*	107-SCSP	9.45	8.75	6.65
PF38F5060M0Y0BEA	PF38F5060M0Y0BEA-ND	512Mb, 1.8V NOR Flash*	105-SCSP	10.80	10.00	7.60

numonyx™ MEMORY CARDS

RoHS Compliant

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
SMC01GBFK6E	SMC01GBFK6E-ND	1Gb CompactFlash™ Card	—	39.14	36.21	30.83
SMC01GCFC6E	SMC01GCFC6E-ND	1Gb CompactFlash™ Card ***NEW!***	—	39.14	33.27	30.83
SMC02GBFK6E	SMC02GBFK6E-ND	2Gb CompactFlash™ Card	—	60.35	56.80	50.59
SMC02GCFC6E	SMC02GCFC6E-ND	2Gb CompactFlash™ Card ***NEW!***	—	55.13	47.68	44.70
SMC04GBFK6E	SMC04GBFK6E-ND	4Gb CompactFlash™ Card	—	96.00	90.00	81.00
SMC04GCFC6E	SMC04GCFC6E-ND	4Gb CompactFlash™ Card ***NEW!***	—	96.00	85.50	81.00
SMC064BFE6E	SMC064BFE6E-ND	64Mb CompactFlash™ Card	—	37.32	36.39	30.79
SMC256BFJ6E	SMC256BFJ6E-ND	256Mb CompactFlash™ Card	—	55.13	51.41	44.70

numonyx™ DigiReel® CODE STORAGE

RoHS Compliant

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M25P Series						
M25P05-AVMN6TP	M25P05-AVMN6TPCT-ND	512Kb, Serial Flash, 50MHz SPI Bus Interface	8-SOIC	1.29	1.16	.92
M25P05-AVMN6TP	M25P05-AVMN6TPTR-ND	512Kb, Serial Flash, 50MHz SPI Bus Interface	8-SOIC	1190.00/2,500		
M25P10-AVMN6TP	M25P10-AVMN6TPCT-ND	1Mb, Serial Flash, 50MHz SPI Bus Interface	8-SOIC	1.22	1.09	.87
M25P10-AVMN6TP	M25P10-AVMN6TPTR-ND	1Mb, Serial Flash, 50MHz SPI Bus Interface	8-SOIC	1120.00/2,500		
M25P10-AVMP6TG	M25P10-AVMP6TGCT-ND	1Mb, Serial Flash, 50MHz SPI Bus Interface	8-VFQFPN	1.22	1.09	.87
M25P10-AVMP6TG	M25P10-AVMP6TGTR-ND	1Mb, Serial Flash, 50MHz SPI Bus Interface	8-VFQFPN	1792.00/4,000		
M25P20-VMN6TPB	M25P20-VMN6TPBCT-ND	2Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	1.44	1.30	1.03
M25P20-VMN6TPB	M25P20-VMN6TPBTR-ND	2Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	1330.00/2,500		
M25P20-VMP6TGB	M25P20-VMP6TGBCT-ND	2Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-VFQFPN	1.44	1.30	1.03
M25P20-VMP6TGB	M25P20-VMP6TGBTR-ND	2Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-VFQFPN	2128.00/4,000		
M25P40-VMN6TPB	M25P40-VMN6TPBCT-ND	4Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	1.67	1.50	1.19
M25P40-VMN6TPB	M25P40-VMN6TPBTR-ND	4Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	1540.00/2,500		
M25P40-VMW6TGB	M25P40-VMW6TGBCT-ND	4Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	1.67	1.50	1.19
M25P40-VMW6TGB	M25P40-VMW6TGBTR-ND	4Mb, Serial Flash, 75MHz SPI Bus Interface ***NEW!***	8-SOIC	990.00/1,500		
M25P80-VMN6TP	M25P80-VMN6TPCT-ND	8Mb, LV, Serial Flash	8-SOIC	1.82	1.56	1.28
M25P80-VMN6TP	M25P80-VMN6TPTR-ND	8Mb, LV, Serial Flash	8-SOIC	1755.00/2,500		
M25P80-VMP6TG	M25P80-VMP6TGCT-ND	8Mb, LV, Serial Flash	8-VFQFPN	1.82	1.56	1.28
M25P80-VMP6TG	M25P80-VMP6TGTR-ND	8Mb, LV, Serial Flash	8-VFQFPN	2808.00/4,000		
M25P80-VMW6TG	M25P80-VMW6TGCT-ND	8Mb, LV, Serial Flash	8-SOIC	1.82	1.56	1.28
M25P80-VMW6TG	M25P80-VMW6TGTR-ND	8Mb, LV, Serial Flash	8-SOIC	1131.00/1,500		
M25P16-VME6G	M25P16-VME6G-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	1.77	1.60	1.29
M25P16-VME6TG	M25P16-VME6TGCT-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	2.00	1.71	1.40
M25P16-VME6TG	M25P16-VME6TGTR-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	3080.00/4,000		
M25P16-VMN6P	M25P16-VMN6P-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	1.77	1.60	1.29
M25P16-VMN6TP	M25P16-VMN6TPCT-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	2.00	1.71	1.40
M25P16-VMN6TP	M25P16-VMN6TPTR-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	1925.00/2,500		
M25P16-VMP6G	M25P16-VMP6G-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-VFQFPN	1.77	1.60	1.29
M25P16-VMW6TG	M25P16-VMW6TGCT-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	2.00	1.71	1.40
M25P16-VMW6TG	M25P16-VMW6TGTR-ND	16Mb, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	1240.50/1,500		
M25P32-VME6G	M25P32-VME6G-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	2.79	2.52	2.03
M25P32-VME6TG	M25P32-VME6TGCT-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	3.15	2.70	2.21
M25P32-VME6TG	M25P32-VME6TGTR-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	4860.00/4,000		
M25P32-VMF6TP	M25P32-VMF6TPCT-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	16-SOIC	3.15	2.70	2.21
M25P32-VMF6TP	M25P32-VMF6TPTR-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	16-SOIC	1305.00/1,000		
M25P32-VMP6G	M25P32-VMP6G-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VDFPN	2.79	2.52	2.03
M25P32-VMP6TG	M25P32-VMP6TGCT-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VFQFPN	3.15	2.70	2.21
M25P32-VMP6TG	M25P32-VMP6TGTR-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-VFQFPN	4860.00/4,000		
M25P32-VMW6G	M25P32-VMW6G-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	2.79	2.52	2.03
M25P32-VMW6TG	M25P32-VMW6TGCT-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	3.15	2.70	2.21
M25P32-VMW6TG	M25P32-VMW6TGTR-ND	32Mb, LV, Serial Flash, 75MHz SPI Bus Interface	8-SOIC	1957.50/1,500		
M25P64-VME6TG	M25P64-VME6TGCT-ND	64Mb, LV Serial Flash	8-VDFPN	4.65	4.19	3.41
M25P64-VME6TG	M25P64-VME6TGTR-ND	64Mb, LV Serial Flash	8-VDFPN	8248.00/4,000		
M25P64-VMF6TP	M25P64-VMF6TPCT-ND	64Mb, LV, Serial Flash	16-SOIC	4.65	4.19	3.41
M25P64-VMF6TP	M25P64-VMF6TPTR-ND	64Mb, LV, Serial Flash	16-SOIC	2170.00/1,000		
M25P128-VMF6P	M25P128-VMF6P-ND	128Mb, LV, Serial Flash	16-SOIC	7.10	6.39	5.26

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

PARAMETER AND DATA STORAGE — *RoHS Compliant*

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M25PE Series						
M25PE10-VMN6P	M25PE10-VMN6P-ND	1Mb, Page-Erasable Serial Flash	8-SOIC	1.09	.97	.76
M25PE20-VMN6P	M25PE20-VMN6P-ND	2Mb, Page-Erasable Serial Flash	8-SOIC	1.19	1.06	.84
M25PE20-VMN6TP	M25PE20-VMN6TPCT-ND	2Mb, Page-Erasable Serial Flash	8-SOIC	1.29	1.16	.92
M25PE20-VMN6TP	M25PE20-VMN6TPTR-ND	2Mb, Page-Erasable Serial Flash	8-SOIC	1190.00/2,500		
M25PE20-VMP6TG	M25PE20-VMP6TGCT-ND	2Mb, Page-Erasable Serial Flash ***NEW!***	8-VFQFPN	1.29	1.16	.92
M25PE20-VMP6TG	M25PE20-VMP6TGTR-ND	2Mb, Page-Erasable Serial Flash ***NEW!***	8-VFQFPN	1904.00/4,000		
M25PE40-VMN6TP	M25PE40-VMN6TPCT-ND	4Mb, Page-Erasable Serial Flash	8-SOIC	1.72	1.47	1.21
M25PE40-VMN6TP	M25PE40-VMN6TPTR-ND	4Mb, Page-Erasable Serial Flash	8-SOIC	1655.00/2,500		
M25PE80-VMN6TP	M25PE80-VMN6TPCT-ND	8Mb, Page-Erasable Serial Flash	8-SOIC	2.52	2.16	1.77
M25PE80-VMN6TP	M25PE80-VMN6TPTR-ND	8Mb, Page-Erasable Serial Flash	8-SOIC	2430.00/2,500		
M25PE80-VMP6TG	M25PE80-VMP6TGCT-ND	8Mb, Page-Erasable Serial Flash	8-VFQFPN	2.52	2.16	1.77
M25PE80-VMP6TG	M25PE80-VMP6TGTR-ND	8Mb, Page-Erasable Serial Flash	8-VFQFPN	3888.00/4,000		
M25PE80-VMW6TG	M25PE80-VMW6TGCT-ND	8Mb, Page-Erasable Serial Flash	8-SOIC	2.52	2.16	1.77
M25PE80-VMW6TG	M25PE80-VMW6TGTR-ND	8Mb, Page-Erasable Serial Flash	8-SOIC	1566.00/1,500		
M45PE16-VMP6TG	M45PE16-VMP6TGCT-ND	16Mb, Page-Erasable Serial Flash ***NEW!***	8-VFQFPN	2.45	2.10	1.72
M45PE16-VMP6TG	M45PE16-VMP6TGTR-ND	16Mb, Page-Erasable Serial Flash ***NEW!***	8-VFQFPN	3780.00/4,000		
M25PE16-VMW6TG	M25PE16-VMW6TGCT-ND	16Mb, Page-Erasable Serial Flash	8-SOIC	2.31	1.98	1.62
M25PE16-VMW6TG	M25PE16-VMW6TGTR-ND	16Mb, Page-Erasable Serial Flash	8-SOIC	1435.50/1,500		

CODE AND DATA STORAGE *RoHS Compliant*

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M25PX Series						
M25PX80-VMN6TP	M25PX80-VMN6TPCT-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	2.28	1.95	1.60
M25PX80-VMN6TP	M25PX80-VMN6TPTR-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	2195.00/2,500		
M25PX80-VMP6TG	M25PX80-VMP6TGCT-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	2.28	1.95	1.60
M25PX80-VMP6TG	M25PX80-VMP6TGTR-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	3512.00/4,000		
M25PX80-VMW6TG	M25PX80-VMW6TGCT-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	2.28	1.95	1.60
M25PX80-VMW6TG	M25PX80-VMW6TGTR-ND	8Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	1414.50/1,500		
M25PX16-VMN6TP	M25PX16-VMN6TPCT-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	1.82	1.56	1.28
M25PX16-VMN6TP	M25PX16-VMN6TPTR-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	1755.00/2,500		
M25PX16-VMP6TG	M25PX16-VMP6TGCT-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	1.82	1.56	1.28
M25PX16-VMP6TG	M25PX16-VMP6TGTR-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	2808.00/4,000		
M25PX16-VMW6TG	M25PX16-VMW6TGCT-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	1.82	1.56	1.28
M25PX16-VMW6TG	M25PX16-VMW6TGTR-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-SOIC	1131.00/1,500		
M25PX16-VZM6TP	M25PX16-VZM6TPCT-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	1.82	1.41	1.28
M25PX16-VZM6TP	M25PX16-VZM6TPTR-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	1755.00/2,500		
M25PX16SOVZM6TP	M25PX16SOVZM6TPCT-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	1.82	1.41	1.28
M25PX16SOVZM6TP	M25PX16SOVZM6TPTR-ND	16Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	1053.00/1,500		
M25PX32-VMP6E	M25PX32-VMP6E-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash	8-VFQFPN	2.88	2.58	2.12
M25PX32-VMP6F	M25PX32-VMP6FCT-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	3.09	2.79	2.27
M25PX32-VMP6F	M25PX32-VMP6FTR-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VFQFPN	5480.00/4,000		
M25PX32-VZM6F	M25PX32-VZM6FCT-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	3.09	2.53	2.27
M25PX32-VZM6F	M25PX32-VZM6FTR-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	3425.00/2,500		
M25PX32SOVZM6F	M25PX32SOVZM6FCT-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	3.09	2.53	2.27
M25PX32SOVZM6F	M25PX32SOVZM6FTR-ND	32Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	3425.00/2,500		
M25PX64-VZM6TP	M25PX64-VZM6TPCT-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	4.83	3.95	3.55
M25PX64-VZM6TP	M25PX64-VZM6TPTR-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	5352.50/2,500		
M25PX64-VME6TG	M25PX64-VME6TGCT-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VDFPN	4.83	4.35	3.55
M25PX64-VME6TG	M25PX64-VME6TGTR-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	8-VDFPN	8564.00/4,000		
M25PX64SOVZM6TP	M25PX64SOVZM6TPCT-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	4.83	3.95	3.55
M25PX64SOVZM6TP	M25PX64SOVZM6TPTR-ND	64Mb, Dual I/O, 4Kbyte Subsector Erase, Serial Flash ***NEW!***	24-TBGA	5352.50/2,500		

INDUSTRY STANDARD BOOT BLOCK — *RoHS Compliant*

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M29F Series						
M29F400BB70N6T	497-1708-1-ND	4Mb (512Kbx8 or 256Kbx16), 70nS, Single Flash	48-TSOP	9.20	8.40	6.64
M28W Series						
M28W160CB70N6E	M28W160CB70N6E-ND	16Mb, (1Mbx16, Boot Block) 3V Supply Flash	48-TSOP	3.36	3.00	2.46
M28W160CT70N6E	M28W160CT70N6E-ND	16Mb, (1Mbx16, Boot Block) 3V Supply Flash	48-TSOP	3.36	3.00	2.46
M28W160ECB70ZB6E	M28W160ECB70ZB6E-ND	16Mb (1Mbx16, Boot Block) 3V Supply Flash	46-TFBGA	3.36	3.00	2.46
M28W160ECT70ZB6E	M28W160ECT70ZB6E-ND	16Mb (1Mbx16, Boot Block) 3V Supply Flash	46-TFBGA	3.36	3.00	2.46
M28W320ECB70ZB6T	497-1696-1-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	9.00	8.33	6.30

INDUSTRY STANDARD BOOT BLOCK — *RoHS Compliant* *(Cont.)*

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M28W320ECB70ZB6T	497-1696-2-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	13950.00/2,500		
M28W320ECT70ZB6T	497-1697-1-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	4.20	3.89	2.94
M28W320ECT70ZB6T	497-1697-2-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	6510.00/2,500		
M28W320FCB70N6E	M28W320FCB70N6E-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	48-TSOP	4.48	4.00	3.28
M28W320FCB70ZB6E	M28W320FCB70ZB6E-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	4.48	4.00	3.28
M28W320FCT70N6E	M28W320FCT70N6E-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	48-TSOP	4.48	4.00	3.28
M28W320FCT70ZB6E	M28W320FCT70ZB6E-ND	32Mb (2Mbx16, Boot Block) 3V Supply Flash	47-TFBGA	4.48	4.00	3.28
M28W320HSB70ZA6E	M28W320HSB70ZA6E-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	4.48	4.00	3.28
M28W320HSB70ZA6F	M28W320HSB70ZA6FCT-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	4.80	4.32	3.52
M28W320HSB70ZA6F	M28W320HSB70ZA6FTR-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	5320.00/2,500		
M28W320HSB70ZB6E	M28W320HSB70ZB6E-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	47-TFBGA	4.48	4.00	3.28
M28W320HST70ZA6F	M28W320HST70ZA6FCT-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	4.80	4.32	3.52
M28W320HST70ZA6F	M28W320HST70ZA6FTR-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	5320.00/2,500		
M28W320HST70ZB6E	M28W320HST70ZB6E-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	47-TFBGA	4.48	4.00	4.48
M28W320HSU70ZA6E	M28W320HSU70ZA6E-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	4.48	4.00	3.28
M28W320HSU70ZA6F	M28W320HSU70ZA6FCT-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	4.80	4.32	3.52
M28W320HSU70ZA6F	M28W320HSU70ZA6FTR-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	5320.00/2,500		
M28W320HSU70ZB6E	M28W320HSU70ZB6E-ND	32Mb (2Mbx16, Boot Block) 3V Flash Memory ***NEW!***	47-TFBGA	4.48	4.00	3.28
M28W640HSB70ZA6E	M28W640HSB70ZA6E-ND	64Mb (4Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	7.50	6.75	5.55
M28W640HST70ZA6E	M28W640HST70ZA6E-ND	64Mb (4Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	7.50	6.75	5.55
M28W640HSU70ZA6E	M28W640HSU70ZA6E-ND	64Mb (4Mbx16, Boot Block) 3V Flash Memory ***NEW!***	64-TBGA	7.50	6.75	5.55

AUTOMOTIVE STANDARD BOOT BLOCK

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M29DW Series — RoHS Compliant						
M29DW256G70NF6E	M29DW256G70NF6E-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	56-TSOP	11.85	9.72	8.77
M29DW256G70NF6F	M29DW256G70NF6FCT-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	56-TSOP	12.56	10.43	9.48
M29DW256G70NF6F	M29DW256G70NF6FTR-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	56-TSOP	7678.80/1,200		
M29DW256G70ZA6E	M29DW256G70ZA6E-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	64-TBGA	11.85	9.72	8.77
M29DW256G70ZA6F	M29DW256G70ZA6FCT-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	64-TBGA	13.75	10.91	10.43
M29DW256G70ZA6F	M29DW256G70ZA6FTR-ND	256Mb Multiple Bank, Dual Boot, 3V Supply Flash ***NEW!***	64-TBGA	14812.50/2,500		
M29DW323DB70N6E	M29DW323DB70N6E-ND	32Mb (4Mbx8 or 2Mbx16, Dual Bank 8:24, Boot Block) 3V Supply Flash	48-TSOP	3.95	3.53	2.90
M29DW323DT70N6E	M29DW323DT70N6E-ND	32Mb (4Mbx8 or 2Mbx16, Dual Bank 8:24, Boot Block) 3V Supply Flash	48-TSOP	3.95	3.53	2.90
M29W Series						
M29W128GH70ZS6E	M29W128GH70ZS6E-ND	128-Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	8.60	7.74	6.37
M29W128GL70N6E	M29W128GL70N6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform FBP) 3V Supply Flash*	56-TSOP	8.60	7.74	6.37
M29W128GL70ZA6E	M29W128GL70ZA6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform FBP) 3V Supply Flash*	64-TBGA	8.60	7.74	6.37
M29W128GL70ZS6E	M29W128GL70ZS6E-ND	128-Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	8.60	7.74	6.37
M29W128GSH70N6E	M29W128GSH70N6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	8.60	7.74	6.37
M29W128GSH70ZA6E	M29W128GSH70ZA6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	8.60	7.74	6.37
M29W128GSH70ZS6E	M29W128GSH70ZS6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	8.60	7.74	6.37
M29W128GSH70ZS6F	M29W128GSH70ZS6FCT-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	9.98	7.92	7.57
M29W128GSH70ZS6F	M29W128GSH70ZS6FTR-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	7740.00/1,800		
M29W128GSL70N6E	M29W128GSL70N6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	8.60	7.74	6.37
M29W128GSL70ZA6E	M29W128GSL70ZA6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	8.60	7.74	6.37
M29W128GSL70ZS6E	M29W128GSL70ZS6E-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	8.60	7.74	6.37
M29W128GSL70ZS6F	M29W128GSL70ZS6FCT-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	14.50	11.50	11.00
M29W128GSL70ZS6F	M29W128GSL70ZS6FTR-ND	128Mb (16Mbx8 or 8Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-FBGA	12500.00/2,000		

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

AUTOMOTIVE STANDARD BOOT BLOCK (Cont.)

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M29W160EB70N6E	M29W160EB70N6E-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.95	2.66	2.14
M29W160EB70ZA6E	M29W160EB70ZA6E-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.95	2.66	2.14
M29W160ET70N6F	M29W160ET70N6FCT-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash*	48-TSOP	3.33	2.85	2.33
M29W160ET70N6F	M29W160ET70N6FTR-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash*	48-TSOP	2067.00/1,500		
M29W160EB70ZS6E	M29W160EB70ZS6E-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash* ***NEW!***	64-FBGA	2.95	2.66	2.14
M29W160ET70ZS6E	M29W160ET70ZS6E-ND	16Mb (2Mbx8 or 1Mbx16, Boot Block) 3V Supply Flash* ***NEW!***	64-FBGA	2.95	2.66	2.14
M29W256GH70N6E	M29W256GH70N6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	9.95	8.16	7.37
M29W256GH70N6F	M29W256GH70N6FCT-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	10.55	8.76	7.96
M29W256GH70N6F	M29W256GH70N6FCT-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	6447.60/1,200		
M29W256GH70ZA6F	M29W256GH70ZA6FCT-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	10.55	8.76	7.96
M29W256GH70ZA6F	M29W256GH70ZA6FTR-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	12935.00/2,500		
M29W256GH70ZS6E	M29W256GH70ZS6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W256GH70ZS6F	M29W256GH70ZS6F-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9313.20/1,800		
M29W256GL70N6E	M29W256GL70N6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	9.95	8.16	7.37
M29W256GL70N6F	M29W256GL70N6FCT-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	10.55	8.76	7.96
M29W256GL70N6F	M29W256GL70N6FTR-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	56-TSOP	6447.60/1,200		
M29W256GL70ZA6E	M29W256GL70ZA6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	9.95	8.16	7.37
M29W256GL70ZA6F	M29W256GL70ZA6FCT-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	10.55	8.76	7.96
M29W256GL70ZA6F	M29W256GL70ZA6FTR-ND	256Mb (32Mbx8 or 16Mbx16, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	12935.00/2,500		
M29W256GL70ZS6E	M29W256GL70ZS6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W256GL70ZS6F	M29W256GL70ZS6F-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.96	6.97
M29W256GSH70ZS6E	M29W256GSH70ZS6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W256GSH70ZS6F	M29W256GSH70ZS6F-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W256GSL70ZS6E	M29W256GSL70ZS6E-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W256GSL70ZS6F	M29W256GSL70ZS6F-ND	256Mb (32Mbx8 or 16Mbx16 Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-LBGA	9.95	8.16	7.37
M29W320EB70N6E	M29W320EB70N6E-ND	32Mb (4Mbx8 or 2Mbx16, Uniform Parameter Blocks, Boot Block)*	48-TSOP	3.67	3.28	2.69
M29W320EB70ZS6E	M29W320EB70ZS6E-ND	32Mb (4Mbx8 or 2Mbx16, Uniform Parameter Blocks, Boot Block) 3V Supply Flash* ***NEW!***	64-FBGA	3.67	3.28	2.69
M29W320ET70ZS6E	M29W320ET70ZS6E-ND	32Mb (4Mbx8 or 2Mbx16, Uniform Parameter Blocks, Boot Block) 3V Supply Flash* ***NEW!***	64-FBGA	3.67	3.28	2.69
M29W320ET70N6E	M29W320ET70N6E-ND	32Mb (4Mbx8 or 2Mbx16, Uniform Parameter Blocks, Boot Block)*	48-TSOP	3.67	3.28	2.69
M29W320ET70ZE6E	M29W320ET70ZE6E-ND	32Mb (4Mbx8 or 2Mbx16, Uniform Parameter Blocks, Boot Block)*	48-TFBGA	3.67	3.28	2.69
M29W400DB55ZE6E	M29W400DB55ZE6E-ND	4Mb (512Kbx8 or 256Kbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.42	2.19	1.76
M29W400DB70N6E	M29W400DB70N6E-ND	4Mb (512Kbx8 or 256Kbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.42	2.19	1.76
M29W400DT55N6E	M29W400DT55N6E-ND	4Mb (512Kbx8 or 256Kbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.42	2.19	1.76
M29W400DT55ZE6E	M29W400DT55ZE6E-ND	4Mb (512Kbx8 or 256Kbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.42	2.19	1.76
M29W400DT70ZE6E	M29W400DT70ZE6E-ND	4Mb (512Kbx8 or 256Kbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.42	2.19	1.76
M29W640FB70ZA6E	M29W640FB70ZA6E-ND	64Mb (8Mbx8 or 4Mbx16, Page, Boot Block) 3V Supply Flash*	48-TFBGA	5.29	4.73	3.88
M29W640GB70NA6E	M29W640GB70NA6E-ND	64Mb (8Mbx8 or 4Mbx16, Bottom Boot Block) 3V Supply Flash*	48-TSOP	5.29	4.73	3.88
M29W640GB70ZA6E	M29W640GB70ZA6E-ND	64Mb (8Mbx8 or 4Mbx16, Bottom Boot Block) 3V Supply Flash*	48-TFBGA	5.29	4.73	3.88
M29W640GH70NB6E	M29W640GH70NB6E-ND	64Mb (8Mbx8 or 4Mbx16, Uniform, LBP) 3V Supply Flash*	56-TSOP	5.29	4.73	3.88
M29W640GL70NB6E	M29W640GL70NB6E-ND	64Mb (8Mbx8 or 4Mbx16, Uniform, FBP) 3V Supply Flash*	56-TSOP	5.29	4.73	3.88
M29W640GSL70ZF6E	M29W640GSL70ZF6E-ND	64Mb (8Mbx8 or 4Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	5.29	4.73	3.88

AUTOMOTIVE STANDARD BOOT BLOCK (Cont.)

Numonyx Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M29W640GSL70ZF6F	M29W640GSL70ZF6FCT-ND	64Mb (8Mbx8 or 4Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	5.67	5.11	4.16
M29W640GSL70ZF6F	M29W640GSL70ZF6FTR-ND	64Mb (8Mbx8 or 4Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	5320.00/2,500		
M29W640GST70ZF6E	M29W640GST70ZF6E-ND	64Mb (8Mbx8 or 4Mbx16, Page, Uniform Block) 3V Supply Flash* ***NEW!***	64-TBGA	5.29	4.73	3.88
M29W640GT70NA6E	M29W640GT70NA6E-ND	64Mb (8Mbx8 or 4Mbx16, Top Boot Block) 3V Supply Flash*	48-TSOP	5.29	4.73	3.88
M29W800DB70N6E	M29W800DB70N6E-ND	8Mb (1Mbx8 or 512Kbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.60	2.36	1.89
M29W800DB70ZE6E	M29W800DB70ZE6E-ND	8Mb (1Mbx8 or 512Kbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.60	2.36	1.89
M29W800DT45N6E	M29W800DT45N6E-ND	8Mb (1Mbx8 or 512Kbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.60	2.36	1.89
M29W800DT70N6E	M29W800DT70N6E-ND	8Mb (1Mbx8 or 512Kbx16, Boot Block) 3V Supply Flash*	48-TSOP	2.60	2.36	1.89
M29W800DT70ZE6E	M29W800DT70ZE6E-ND	8Mb (1Mbx8 or 512Kbx16, Boot Block) 3V Supply Flash*	48-TFBGA	2.60	2.36	1.89
M45P Series — RoHS Compliant						
M45PE10-VMN6TP	M45PE10-VMN6TPCT-ND	1Mb, Page-Erasable Serial Flash	SO-8	1.60	1.43	1.14
M45PE10-VMN6TP	M45PE10-VMN6TPTR-ND	1Mb, Page-Erasable Serial Flash	SO-8	1470.00/2,500		
M45PE20-VMN6P	M45PE20-VMN6P-ND	2Mb, Page-Erasable Serial Flash	SO-8	1.61	1.46	1.17
M45PE20-VMN6TP	M45PE20-VMN6TPCT-ND	2Mb, Page-Erasable Serial Flash	SO-8	1.96	1.69	1.38
M45PE20-VMN6TP	M45PE20-VMN6TPTR-ND	2Mb, Page-Erasable Serial Flash	SO-8	1892.50/2,500		
M45PE20-VMP6TG	M45PE20-VMP6TGCT-ND	2Mb, Page-Erasable Serial Flash	8-VDFPN	1.96	1.69	1.38
M45PE20-VMP6TG	M45PE20-VMP6TGTR-ND	2Mb, Page-Erasable Serial Flash	8-VDFPN	3028.00/4,000		
M45PE40-VMP6G	M45PE40-VMP6G-ND	4Mb, Page-Erasable Serial Flash	8-VDFPN	1.86	1.68	1.35
M45PE80-VMP6TG	M45PE80-VMP6TGCT-ND	8Mb, LV, Page-Erasable, Serial Flash	8-VDFPN	2.52	2.16	1.77
M45PE80-VMP6TG	M45PE80-VMP6TGTR-ND	8Mb, LV, Page-Erasable, Serial Flash	8-VDFPN	3888.00/4,000		
NEW! M58L Series — RoHS Compliant NEW!						
M58LR128KB85ZB5E	M58LR128KB85ZB5E-ND	128Mb, (Multiple Bank, Multilevel Interface, Burst) 1.8V Supply Flash	56-VFBGA	4.20	3.38	3.08
M58LR128KT85ZB5E	M58LR128KT85ZB5E-ND	128Mb, (Multiple Bank, Multilevel Interface, Burst) 1.8V Supply Flash	56-VFBGA	4.25	3.83	2.98
M58LR256KT70ZC5E	M58LR256KT70ZC5E-ND	128Mb, (Multiple Bank, Multilevel Interface, Burst) 1.8V Supply Flash	79-VFBGA	7.00	5.74	5.18

INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
LED Ballasts — RoHS Compliant					
BCR401RE6327INCT-ND	18V, 60mA LED Driver	SOT-143R	.54	.43	.30
BCR401RE6327INTR-ND	18V, 60mA LED Driver	SOT-143R	369.00/3,000		
BCR401UE6327INCT-ND	12V, 65mA LED Driver ***NEW!***	SC-74-6	.56	.45	.34
BCR401UE6327INTR-ND	12V, 65mA LED Driver ***NEW!***	SC-74-6	474.00/3,000		
BCR401WE6327INCT-ND	18V, 60mA LED Driver	SOT-343	.54	.43	.30
BCR402RE6327INCT-ND	18V, 60mA LED Driver	SOT-143R	.54	.43	.30
BCR402RE6327INTR-ND	18V, 60mA LED Driver	SOT-143R	369.00/3,000		
BCR402UE6327INCT-ND	40V, 65mA LED Driver	SC-74-6	.56	.45	.34
BCR402UE6327INTR-ND	40V, 65mA LED Driver	SC-74-6	474.00/3,000		
BCR402WE6327INCT-ND	18V, 60mA LED Driver	SOT-343	.54	.43	.30
BCR402WE6327INTR-ND	18V, 60mA LED Driver	SOT-343	369.00/3,000		
BCR405UE6327INCT-ND	40V, 50mA LED Driver ***NEW!***	SC-74-6	.56	.45	.34
BCR405UE6327INTR-ND	40V, 50mA LED Driver ***NEW!***	SC-74-6	474.30/3,000		
BCR450INCT-ND	40V, 100mA LED Driver	SC-74-6	1.02	.92	.73
BCR450INTR-ND	40V, 100mA LED Driver	SC-74-6	1131.00/3,000		
BTS5576GCT-ND	54V, 25mA LED Driver ***NEW!***	DSO-36	7.49	6.79	5.66
BTS5576GTR-ND	54V, 25mA LED Driver ***NEW!***	DSO-36	3816.00/1,000		
BTS5590GCT-ND	54V, 25mA LED Driver ***NEW!***	DSO-36	8.30	7.52	6.27
BTS5590GTR-ND	54V, 25mA LED Driver ***NEW!***	DSO-36	4228.00/1,000		
TLE4240-2MCT-ND	45V, 58mA LDO Linear LED Driver ***NEW!***	SCT595-5	1.41	1.27	1.01
TLE4240-2MTR-ND	45V, 58mA LDO Linear LED Driver ***NEW!***	SCT595-5	1431.00/3,000		
TLE4240-3MCT-ND	45V, 58mA LDO Linear LED Driver ***NEW!***	SCT595-5	1.59	1.43	1.14
TLE4240-3MTR-ND	45V, 58mA LDO Linear LED Driver ***NEW!***	SCT595-5	1599.00/3,000		
TLE4242GINCT-ND	42V, 500mA Adj. LED Driver	D2PAK	3.31	2.98	2.43
TLE4242GINTR-ND	42V, 500mA Adj. LED Driver	D2PAK	1423.00/1,000		
TLE4309GCT-ND	45V, 500mA Adj. LDO Linear LED Driver ***NEW!***	TO-263-7	2.64	2.26	1.85
TLE4309GTR-ND	45V, 500mA Adj. LDO Linear LED Driver ***NEW!***	TO-263-7	1092.00/1,000		
Power Management					
ADM6996LX-AA-T-1IN-ND	6-Port, 10/100Mbps TX/FX Switch	128-QFP	5.36	4.83	3.97
BSP75N CT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	.92	.82	.66
BSP75N TR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1448.00/4,000		
BSP76 E6433CT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.01	.90	.72
BSP76 E6433TR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1484.00/4,000		
BSP77 E6433CT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.29	1.16	.92
BSP77 E6433TR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1728.00/4,000		
BSP78CT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.77	1.52	1.25
BSP78TR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	2512.00/4,000		
BSP452CT-ND	Smart High-Side Power Switch* ***NEW!***	SOT-223-4	2.04	1.75	1.43
BSP452TR-ND	Smart High-Side Power Switch* ***NEW!***	SOT-223-4	3148.00/4,000		
BSP742RCT-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	1.82	1.56	1.28
BSP742RTR-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	1752.50/2,500		
BSP742RICT-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	1.82	1.56	1.28
BSP742RITR-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	1752.50/2,500		
BSP742TINCT-ND	Smart Power High-Side Switch	DSO-8	2.79	2.50	1.99
BSP742TINTR-ND	Smart Power High-Side Switch	DSO-8	2570.00/2,500		
BSP752RINCT-ND	Smart Power High-Side Switch	DSO-8	3.20	2.75	2.24
BSP752RINTR-ND	Smart Power High-Side Switch	DSO-8	3082.50/2,500		
BSP752TCT-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	2.01	1.73	1.41
BSP752TTR-ND	Smart Power High-Side Switch* ***NEW!***	DSO-8	1940.00/2,500		
BSP762TINCT-ND	Smart Power High-Side Switch*	DSO-8	2.40	2.06	1.69
BSP762TINTR-ND	Smart Power High-Side Switch*	DSO-8	2317.50/2,500		
BSP772TINCT-ND	Smart Power High-Side Switch*	DSO-8	2.68	2.30	1.88
BSP772TINTR-ND	Smart Power High-Side Switch*	DSO-8	2587.50/2,500		
BTM7700GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	4.40	3.96	3.23
BTM7700GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	1868.00/1,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Infineon DigiReel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
BTM7710GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	5.84	5.26	4.28
BTM7710GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	2478.00/1,000		
BTM7710GPCT-ND	High Current Motor Driver* ***NEW!***	TO-263-15	7.35	6.62	5.39
BTM7710GPTR-ND	High Current Motor Driver* ***NEW!***	TO-263-15	1850.50/500		
BTM7740GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	4.61	4.16	3.39
BTM7740GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	1959.00/1,000		
BTM7741GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	4.93	4.44	3.62
BTM7741GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	2093.00/1,000		
BTM7750GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	5.85	5.27	4.30
BTM7750GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	2485.00/1,000		
BTM7750GPCT-ND	High Current Motor Driver* ***NEW!***	TO-263-15	9.62	8.72	7.26
BTM7750GPTR-ND	High Current Motor Driver* ***NEW!***	TO-263-15	2559.50/500		
BTM7751GCT-ND	High Current Motor Driver* ***NEW!***	DSO-28	5.85	5.27	4.30
BTM7751GTR-ND	High Current Motor Driver* ***NEW!***	DSO-28	2485.00/1,000		
BTM7810KCT-ND	High Current Motor Driver* ***NEW!***	TO-263-15	10.20	9.24	7.70
BTM7810KTR-ND	High Current Motor Driver* ***NEW!***	TO-263-15	2715.00/500		
BTM7811KCT-ND	High Current Motor Driver* ***NEW!***	TO-263-15	11.54	10.46	8.72
BTM7811KTR-ND	High Current Motor Driver* ***NEW!***	TO-263-15	3071.50/500		
BTN7930BINCT-ND	P/N Channel Half Bridge Motor Driver*	TO-263-7	7.07	6.37	5.19
BTN7930BINTR-ND	P/N Channel Half Bridge Motor Driver*	TO-263-7	3003.00/1,000		
BTN7930P-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-220-7	6.01	5.37	4.40
BTN7930S-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-220-7	6.01	5.37	4.40
BTN7960BCT-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	7.10	6.43	5.36
BTN7960BTR-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	3412.22/1,000		
BTN7960P-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-220-7	6.82	6.10	5.00
BTN7960S-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-220-7	6.82	6.10	5.00
BTN7970BCT-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	8.50	7.71	6.42
BTN7970BTR-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	3943.00/1,000		
BTN7970P-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-220-7	7.30	6.58	5.41
BTN7971BCT-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	9.19	8.33	6.94
BTN7971BTR-ND	P/N Channel Half Bridge Motor Driver* ***NEW!***	TO-263-7	3962.00/1,000		
BTS117IN-ND	Smart Power Low-Side Switch	P-TO-220-3-1	2.22	1.97	1.56
BTS118DCT-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-3	1.29	1.16	.92
BTS118DTR-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-3	1190.00/2,500		
BTS134DCT-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-3	1.76	1.51	1.24
BTS134DTR-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-3	1697.50/2,500		
BTS141E3045AINCT-ND	Smart Power Low-Side Switch*	TO-220	6.05	4.81	4.19
BTS149-ND	Smart Low-Side Power Switch* ***NEW!***	TO-220-3	5.92	5.29	4.34
BTS244Z-ND	N-Channel TEMPFET®* ***NEW!***	TO-220-5	3.25	2.91	2.38
BTS409L1E3062AINCT-ND	Smart Power High-Side Switch*	TO-220AB/5	3.30	2.83	2.31
BTS409L1E3062AINTR-ND	Smart Power High-Side Switch*	TO-220AB/5	1366.00/1,000		
BTS410E2IN-ND	Smart Power High-Side Switch*	TO-220AB/5	3.92	3.15	2.87
BTS410F2IN-ND	Smart Power High-Side Switch*	TO-220AB/5	3.92	3.15	2.87
BTS410F2E3062INCT-ND	Smart Power High-Side Switch	D2-PAK	4.20	3.78	3.08
BTS410F2E3062INTR-ND	Smart Power High-Side Switch	D2-PAK	1958.00/1,000		
BTS432E2IN-ND	Smart Power High-Side Switch	TO-220AB/5	5.43	4.37	3.98
BTS441RGCT-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	D2-PAK-5	5.96	5.37	4.37
BTS441RGTR-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	D2-PAK-5	3058.00/1,000		
BTS441RS-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	TO-220-5	6.12	5.47	4.48
BTS441TGCT-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	D2-PAK-5	5.82	5.24	4.27
BTS441TGTR-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	D2-PAK-5	2985.00/1,000		
BTS441TS-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	TO-220-5	5.97	5.33	4.38
BTS442E2IN-ND	Smart Power High-Side Switch*	TO-220AB/5	6.55	5.38	4.85
BTS443PINCT-ND	Smart High-Side Power Switch* ***NEW!***	TO-252-5	3.16	2.85	2.32
BTS443PINTR-ND	Smart High-Side Power Switch* ***NEW!***	TO-252-5	3498.57/2,500		
BTS452RINCT-ND	Smart Power High-Side Switch*	TO-252-5	2.23	1.92	1.57
BTS452RINTR-ND	Smart Power High-Side Switch*	TO-252-5	2152.50/2,500		
BTS452TCT-ND	Smart High-Side Power Switch* ***NEW!***	TO-252-5	2.20	1.89	1.54
BTS452TTR-ND	Smart High-Side Power Switch* ***NEW!***	TO-252-5	2120.00/2,500		
BTS550P E3146-ND	Smart High-Side Power Switch PROFET®* ***NEW!***	TO-218AB/5	8.63	7.77	6.39
BTS555-ND	Smart High-Side Power Switch PROFET®* ***NEW!***	TO-218AB/5	10.15	9.14	7.52
BTS555E3146IN-ND	Smart High-Side High Current Power Switch, Straight Lead*	TO-218AB/5	10.15	8.33	7.52
BTS611L1E3128AINCT-ND	Smart Power High-Side Switch 2-Ch.: 2 x 200mΩ*	SMD TO-220AB/7	3.52	3.17	2.59
BTS611L1E3128AINTR-ND	Smart Power High-Side Switch 2-Ch.: 2 x 200mΩ*	SMD TO-220AB/7	1642.00/1,000		
BTS621L1E3128AINCT-ND	Smart Power High-Side Switch 2-Ch.: 2 x 100mΩ*	SMD TO-220AB/7	4.78	4.31	3.51
BTS621L1E3128AINTR-ND	Smart Power High-Side Switch 2-Ch.: 2 x 100mΩ*	SMD TO-220AB/7	2231.00/1,000		
BTS711L1INCT-ND	4-Channel High-Side Switch	DSO-20-9	5.65	5.09	4.15
BTS711L1INTR-ND	4-Channel High-Side Switch	DSO-20-9	2636.00/1,000		
BTS712N1CT-ND	Smart High-Side Power Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	6.23	5.61	4.57
BTS712N1TR-ND	Smart High-Side Power Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	2908.00/1,000		
BTS716GBCT-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	4.94	4.45	3.63
BTS716GBTR-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	2306.00/1,000		
BTS716GINCT-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	4.66	4.20	3.42
BTS716GINTR-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	2174.00/1,000		
BTS723GWCT-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-14	6.11	5.50	4.48
BTS723GWTR-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-14	6767.50/2,500		
BTS724GCT-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	5.13	4.62	3.76
BTS724GTR-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	2393.00/1,000		
BTS730CT-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	DSO-20	4.56	4.11	3.35
BTS730TR-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	DSO-20	2130.00/1,000		
BTS740S2CT-ND	Smart High-Side Power Switch PROFET® 2-Channel* ***NEW!***	DSO-20	6.13	5.52	4.50
BTS740S2TR-ND	Smart High-Side Power Switch PROFET® 2-Channel* ***NEW!***	DSO-20	2859.00/1,000		
BTS840S2INCT-ND	Smart Power High-Side Switch 2-Channel: 2 x 30mΩ	DSO-20	7.56	6.85	5.71
BTS840S2INTR-ND	Smart Power High-Side Switch 2-Channel: 2 x 30mΩ	DSO-20	3252.80/800		
BTS949-ND	Smart Low-Side Power Switch* ***NEW!***	TO-220-5	6.73	6.02	4.93
BTS3110NCT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.11	1.00	.79
BTS3110NTR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1588.00/4,000		
BTS3118NCT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.29	1.16	.92
BTS3118NTR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1728.00/4,000		
BTS3134NCT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.66	1.43	1.17
BTS3134NTR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	2592.00/4,000		
BTS3160DCT-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-5	3.21	2.89	2.36
BTS3160DTR-ND	Smart Low-Side Power Switch* ***NEW!***	TO-252-5	3560.00/2,500		
BTS3205GCT-ND	Smart Low-Side Power Switch* ***NEW!***	DSO-8	1.00	.87	.69
BTS3205GTR-ND	Smart Low-Side Power Switch* ***NEW!***	DSO-8	692.50/2,500		
BTS3207NCT-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1.02	.89	.70
BTS3207NTR-ND	Smart Low-Side Power Switch* ***NEW!***	SOT-223-4	1392.00/4,000		
BTS3405GCT-ND	Smart Low-Side Power Switch* ***NEW!***	DSO-8	1.60	1.44	1.14
BTS3405GTR-ND	Smart Low-Side Power Switch* ***NEW!***	DSO-8	1342.50/2,500		
BTS3408GCT-ND	Smart Low-Side Power Switch 2-Channel* ***NEW!***	DSO-8	2.28	1.96	1.60
BTS3408GTR-ND	Smart Low-Side Power Switch 2-Channel* ***NEW!***	DSO-8	1997.50/2,500		
BTS3410GCT-ND	Smart Low-Side Power Switch 2-Channel* ***NEW!***	DSO-8	1.72	1.54	1.22
BTS3410GTR-ND	Smart Low-Side Power Switch 2-Channel* ***NEW!***	DSO-8	1580.00/2,500		
BTS4130QGACT-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	3.65	3.29	2.68
BTS4130QGATR-ND	Smart High-Side Power Switch 4-Channel* ***NEW!***	DSO-20	1705.00/1,000		
BTS4140NINCT-ND	Smart High-Side Power Switch*	SOT-223-4	1.33	1.19	.94
BTS4140NINTR-ND	Smart High-Side Power Switch*	SOT-223-4	2136.00/4,000		
BTS4141NINCT-ND	Smart Power High-Side Switch 1-Ch.: 1 x 200mΩ	SOT-223-4	2.11	1.82	1.48
BTS4141NINTR-ND	Smart Power High-Side Switch 1-Ch.: 1 x 200mΩ	SOT-223-4	3260.00/4,000		
BTS4142NCT-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	SOT-223-4	2.17	1.87	1.53
BTS4142NTR-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	SOT-223-4	3356.00/4,000		
BTS4160DGACT-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-14	2.00	1.72	1.40
BTS4160DGATR-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-14	1927.50/2,500		
BTS4175SGACT-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	DSO-8	1.66	1.49	1.19
BTS4175SGATR-ND	Smart High-Side Power Switch 1-Channel* ***NEW!***	DSO-8	1530.00/2,500		
BTS4880RCT-ND	Smart High-Side Power Switch 8-Channel* ***NEW!***	DSO-36	9.67	8.76	7.30
BTS4880RTR-ND	Smart High-Side Power Switch 8-Channel* ***NEW!***	DSO-36	4158.40/800		
BTS5012SDAINCT-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3.26	2.80	2.29
BTS5012SDAINTR-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3147.50/2,500		
BTS5014SDAINCT-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3.20	2.74	2.24
BTS5014SDAINTR-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3082.50/2,500		
BTS5016SDAINDCT-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3.13	2.69	2.20
BTS5016SDAINDTR-ND	Smart High-Side Power Switch PROFET® 1-Ch.*	TO-252-5	3017.50/2,500		
BTS5210GINCT-ND	Smart Power High-Side Switch 2-Ch.: 2 x 140mΩ	DSO-14	2.39	2.05	1.68
BTS5210GINTR-ND	Smart Power High-Side Switch 2-Ch.: 2 x 140mΩ	DSO-14	2307.50/2,500		
BTS5210LCT-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-12	3.23	2.77	2.26
BTS5210LTR-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-12	1337.00/1,000		
BTS5235-2GINCT-ND	Smart High-Side Power Switch PROFET®, 2-Ch., 60mΩ*	PG-DSO-20-43	3.05	2.75	2.24
BTS5235-2GINTR-ND	Smart High-Side Power Switch PROFET®, 2-Ch., 60mΩ*	PG-DSO-20-43	1422.00/1,000		
BTS5236-2GSINCT-ND	Smart High-Side Power Switch PROFET®, 2-Ch.*	PG-DSO-14-32	2.94	2.52	2.06
BTS5236-2GSINTR-ND	Smart High-Side Power Switch PROFET®, 2-Ch.*	PG-DSO-14-32	2830.00/2,500		
BTS5240LINCT-ND	Smart Power High-Side Switch 2-Ch. 2 x 25mΩ	DSO-12	9.11	8.25	6.88
BTS5242-2LINCT-ND	Smart High-Side Power Switch PROFET®, 2-Ch.*	PG-DSO-12-9	4.44	4.00	3.26
BTS5242-2LINTR-ND	Smart High-Side Power Switch PROFET®, 2-Ch.*	PG-DSO-12-9	2071.00/1,000		
BTS6133DCT-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	3.27	2.95	2.40
BTS6133DTR-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	3622.50/2,500		
BTS6143DINCT-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	4.03	3.21	2.80
BTS6143DINTR-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	3437.50/2,500		
BTS6163DINCT-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	6.41	5.10	4.44
BTS6163DINTR-ND	Smart High-Side Power Switch PROFET®, 1-Ch.* ***NEW!***	TO-252-5	5462.50/2,500		
BTS50055-1TMACT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	TO-220-7	6.77	6.09	4.97
BTS50055-1TMATR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	TO-220-7	3157.00/1,000		
BTS50055-1TMB-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	TO-220-7	6.31	5.64	4.63
BTS50080-1TEBCT-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-252-5	3.92	3.53	2.88
BTS50080-1TEBTR-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-252-5	4345.00/2,500		
BTS50080-1TMACT-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	5.20	4.68	3.82
BTS50080-1TMATR-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	2426.00/1,000		
BTS50080-1TMB-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	4.85	4.34	3.56
BTS50085-1TMACT-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	7.44	6.70	5.46
BTS50085-1TMATR-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	3473.00/1,000		
BTS50085-1TMB-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-7	6.95	6.21	5.09
IFX1117GSVINCT-ND	Mono Integrated Fixed NPN Type Voltage Reg.*	SOT-223	1.28	1.15	.91
IFX1117GSVINTR-ND	Mono Integrated Fixed NPN Type Voltage Reg.*	SOT-223	1880.00/4,000		
ISP452CT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	1.89	1.62	1.33
ISP452TR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	2912.00/4000		
ISP742RICT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1.77	1.59	1.27
ISP742RITR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1635.00/2,500		
ISP752RCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1.93	1.66	1.35
ISP752RTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1857.50/2,500		
ISP752TCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1.85	1.59	1.30
ISP752TTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	1782.50/2,500		
ISP762TCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	2.16	1.86	1.52
ISP762TTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	2085.00/2,500		
ISP772TCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	2.41	2.07	1.69
ISP772TTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	DSO-8	2327.50/2,500		
ITS410E2-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-5	3.45	3.09	2.53
ITS428L2CT-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-252-5	3.05	2.62	2.14
ITS428L2TR-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-252-5	2937.50/2,500		
ITS436L2-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-5	3.52	3.15	2.58
ITS436L2S-ND	Smart Power High-Side Switch PROFET® 1-Ch.* ***NEW!***	TO-220-5	3.52	3.15	2.58
ITS612N1-ND	Smart Power High-Side Switch PROFET® 2-Ch.* ***NEW!***	TO-220AB/7	2.95	2.64	2.16
ITS621L1-ND	Smart Power High-Side Switch PROFET® 2-Ch.* ***NEW!***	TO-220AB/7	3.93	3.52	2.89
ITS716GCT-ND	Smart Power High-Side Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	4.07	3.66	2.99
ITS716GTR-ND	Smart Power High-Side Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	1898.00/1,000		
ITS724GCT-ND	Smart Power High-Side Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	4.48	4.03	3.29
ITS724GTR-ND	Smart Power High-Side Switch PROFET® 4-Ch.* ***NEW!***	DSO-20	2089.00/1,000		
ITS4140NCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	1.30	1.17	.93

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
ITS4140NTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	1924.00/4,000		
ITS4141DCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	TO-252-5	2.02	1.73	1.42
ITS4141DTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	TO-252-5	1947.50/2,500		
ITS4141NCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	1.86	1.60	1.31
ITS4141NTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	2876.00/4,000		
ITS4142NCT-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	1.92	1.65	1.35
ITS4142NTR-ND	Smart Power High-Side Switch 1-Channel* ***NEW!***	SOT-223-4	2960.00/4,000		
ITS4880RCT-ND	Smart Power High-Side Switch 8-Channel* ***NEW!***	DSO-36	8.70	7.88	6.57
ITS4880RTR-ND	Smart Power High-Side Switch 8-Channel* ***NEW!***	DSO-36	17072.00/4000		
ITS5215LCT-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-12-9	3.24	2.78	2.27
ITS5215LTR-ND	Smart High-Side Power Switch 2-Channel* ***NEW!***	DSO-12-9	1621.38/1,000		
TCA505BGGEGINCT-ND	Switch for Inductance Proxi*	16-DSO	4.75	4.28	3.49
TCA505BGGEGINTR-ND	Switch for Inductance Proxi*	16-DSO	4815.00/2,500		
TCA3727IN-ND	2-Phase Stepper Motor Driver*	20-Dip	7.67	6.90	5.68
TLE4207GINCT-ND	1A Dual Half Bridge Driver*	DSO-14	3.00	2.58	2.11
TLE4209A-ND	H-Bridge DC Motor Driver* ***NEW!***	8-Dip	2.39	2.16	1.74
TLE4226GCT-ND	Low-Side Switch 6-Channel* ***NEW!***	DSO-24	3.68	3.32	2.71
TLE4226GTR-ND	Low-Side Switch 6-Channel* ***NEW!***	DSO-24	1719.00/1,000		
TLE4250-2GCT-ND	Low Dropout Voltage Tracker* ***NEW!***	SCT595-5	1.24	1.11	.88
TLE4250-2GTR-ND	Low Dropout Voltage Tracker* ***NEW!***	SCT595-5	1365.00/3,000		
TLE4251DINCT-ND	Low Dropout Voltage Tracker*	DPAK	3.20	2.48	2.25
TLE4251DINTR-ND	Low Dropout Voltage Tracker*	DPAK	3090.00/2,500		
TLE4251GCT-ND	Low Dropout Voltage Tracker* ***NEW!***	TO-263-5	3.36	2.89	2.36
TLE4251GTR-ND	Low Dropout Voltage Tracker* ***NEW!***	TO-263-5	1421.00/1,000		
TLE4252DCT-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	TO-252-5	3.05	2.62	2.14
TLE4252DTR-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	TO-252-5	2945.00/2,500		
TLE4252GCT-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	TO-263-5	3.28	2.81	2.30
TLE4252GTR-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	TO-263-5	1358.00/1,000		
TLE4253GSCT-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1.90	1.64	1.34
TLE4253GSTR-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1835.00/2,500		
TLE4254GACT-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1.78	1.59	1.27
TLE4254GATR-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1635.00/2,500		
TLE4254GSCT-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1.78	1.59	1.27
TLE4254GSTR-ND	Low Dropout Voltage Tracking Regulator* ***NEW!***	DSO-8	1635.00/2,500		
TLE4262GCT-ND	5V Low Drop Voltage Regulator* ***NEW!***	DSO-20	3.30	2.83	2.32
TLE4262GTR-ND	5V Low Drop Voltage Regulator* ***NEW!***	DSO-20	1368.00/1,000		
TLE4262GMCT-ND	5V Low Drop Voltage Regulator* ***NEW!***	DSO-14	2.93	2.51	2.05
TLE4262GMTR-ND	5V Low Drop Voltage Regulator* ***NEW!***	DSO-14	2822.50/2,500		
TLE4263-2ESCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2.73	2.34	1.91
TLE4263-2ESTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2627.50/2,500		
TLE4263GCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-20	3.65	3.14	2.56
TLE4263GTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-20	1270.00/1,000		
TLE4263GMCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	2.86	2.46	2.01
TLE4263GMTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	2760.00/2,500		
TLE4263GSCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2.59	2.22	1.82
TLE4263GSTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2497.50/2,500		
TLE4264GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	SOT-223-4	1.69	1.52	1.20
TLE4264GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	SOT-223-4	667.00/1,000		
TLE4266-2GCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	1.91	1.64	1.34
TLE4266-2GTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	2940.00/4,000		
TLE4266-2GS V33CT-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	1.91	1.64	1.34
TLE4266-2GS V33TR-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	2940.00/4,000		
TLE4267GINCT-ND	5V Low Dropout Voltage Regulator*	TO-263-7	3.17	2.86	2.33
TLE4267GINTR-ND	5V Low Dropout Voltage Regulator*	TO-263-7	1478.00/1,000		
TLE4267GMCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	3.01	2.58	2.11
TLE4267GMTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	2897.50/2,500		
TLE4267SIN-ND	5V Low Dropout Voltage Regulator*	P-TO-220-7	2.98	2.40	2.18
TLE4268GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-20	3.12	2.82	2.30
TLE4268GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-20	1458.00/1,000		
TLE4268GSCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	2.83	2.43	1.99
TLE4268GSTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	2727.50/2,500		
TLE4270-2-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-220-5	3.01	2.69	2.21
TLE4270-2DCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-5	3.22	2.90	2.37
TLE4270-2DTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-5	3567.50/2,500		
TLE4270-2GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-263-5	3.36	3.03	2.47
TLE4270-2GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-263-5	1569.00/1,000		
TLE4270GINCT-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO-263-5	3.43	3.09	2.52
TLE4270GINTR-ND	5V, Low-Drop Fixed Voltage Regulator	P-TO-263-5	1601.00/1,000		
TLE4271-2-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-220-7	3.30	2.95	2.42
TLE4271-2S-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-220-7	3.30	2.95	2.42
TLE4274D V33CT-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	1.91	1.64	1.34
TLE4274D V33TR-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	1805.00/2,500		
TLE4274D V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	1.95	1.68	1.37
TLE4274D V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	1880.00/2,500		
TLE4274G V10CT-ND	10V Low Dropout Voltage Regulator* ***NEW!***	TO-263-3	2.28	1.96	1.60
TLE4274G V10TR-ND	10V Low Dropout Voltage Regulator* ***NEW!***	TO-263-3	946.00/1,000		
TLE4274G V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-263-3	2.24	1.92	1.57
TLE4274G V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-263-3	927.00/1,000		
TLE4274GS V25CT-ND	2.5V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	1.77	1.52	1.24
TLE4274GS V25TR-ND	2.5V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	732.00/1,000		
TLE4274GS V33CT-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	1.77	1.52	1.24
TLE4274GS V33TR-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	SOT-223-4	732.00/1,000		
TLE4274V50IN-ND	Low-Drop Voltage Regulator	P-TO-220-3-1	1.98	1.60	1.44
TLE4276DVCT-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	2.70	2.32	1.90
TLE4276DVTR-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	2607.50/2,500		
TLE4276SVCT-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	2.94	2.52	2.06
TLE4276SVTR-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	1216.00/1,000		
TLE4276S V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	3.00	2.57	2.10
TLE4276S V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	748.91/500		
TLE4276VCT-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	2.94	2.52	2.06
TLE4276VTR-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-220-5	1216.00/1,000		
TLE4278GINCT-ND	5V LDO Fixed Voltage Regulator*	DSO-14	3.20	2.75	2.25
TLE4278GINTR-ND	5V LDO Fixed Voltage Regulator*	DSO-14	3090.00/2,500		
TLE4279GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	2.01	1.72	1.41
TLE4279GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	1935.00/2,500		
TLE4279GMCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-14	2.47	2.12	1.73
TLE4279GMTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-14	2380.00/2,500		
TLE4284DVCT-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	2.13	1.83	1.50
TLE4284DVTR-ND	Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	2057.50/2,500		
TLE4284D V15CT-ND	1.5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2.14	1.83	1.50
TLE4284D V15TR-ND	1.5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2057.50/2,500		
TLE4284D V18CT-ND	1.8V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2.14	1.83	1.50
TLE4284D V18TR-ND	1.8V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2057.50/2,500		
TLE4284D V33CT-ND	3.3V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2.14	1.83	1.50
TLE4284D V33TR-ND	3.3V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2057.50/2,500		
TLE4284D V50CT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2.14	1.83	1.50
TLE4284D V50TR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-3	2057.50/2,500		
TLE4285GCT-ND	5V Fixed Voltage Regulator* ***NEW!***	SCT595-5	1.18	1.06	.84
TLE4285GTR-ND	5V Fixed Voltage Regulator* ***NEW!***	SCT595-5	1299.00/3,000		
TLE4287GCT-ND	5V Fixed Voltage Regulator* ***NEW!***	DSO-14	3.41	2.93	2.39
TLE4287GTR-ND	5V Fixed Voltage Regulator* ***NEW!***	DSO-14	3285.00/2,500		
TLE4290DCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3.07	2.77	2.26
TLE4290DTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3407.50/2,500		
TLE4294G V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SCT595-5	1.28	1.15	.91
TLE4294G V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SCT595-5	1410.00/3,000		
TLE4296-2G V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SCT595-5	1.31	1.18	.94
TLE4296-2G V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	SCT595-5	1452.00/3,000		
TLE4299GMINCT-ND	5V LDO Fixed Voltage Regulator*	DSO-14	2.97	2.55	2.08
TLE4299GMINTR-ND	5V LDO Fixed Voltage Regulator*	DSO-14	2865.00/2,500		
TLE4299G V33CT-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2.42	2.08	1.70
TLE4299G V33TR-ND	3.3V Low Dropout Voltage Regulator* ***NEW!***	DSO-8	2330.00/2,500		
TLE4470GCT-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-20	3.05	2.75	2.24
TLE4470GTR-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-20	1423.00/1,000		
TLE4470GSCT-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-14	2.96	2.54	2.08
TLE4470GSTR-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-14	2857.50/2,500		
TLE4471GCT-ND	Triple Low Dropout Voltage Regulator* ***NEW!***	DSO-20	5.06	4.56	3.72
TLE4471GTR-ND	Triple Low Dropout Voltage Regulator* ***NEW!***	DSO-20	2024.00/800		
TLE4473G V52CT-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-12	4.36	3.93	3.20
TLE4473G V52TR-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-12	1993.00/1,000		
TLE4473G V53CT-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-12	4.36	3.93	3.20
TLE4473G V53TR-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	DSO-12	1993.00/1,000		
TLE4476DCT-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3.32	2.99	2.44
TLE4476DTR-ND	Dual Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3677.50/2,500		
TLE4675DCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-5	3.36	3.03	2.47
TLE4675DTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-252-5	3727.50/2,500		
TLE5205-2GINCT-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-263-7	7.38	6.64	5.42
TLE5205-2GINTR-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-263-7	3443.00/1,000		
TLE5205-2GPCT-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	DSO-20	7.70	6.98	5.82
TLE5205-2GPTR-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	DSO-20	2904.80/800		
TLE5205-2IN-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-220-7	6.89	6.15	5.05
TLE5205-2S-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	TO-220-7	6.89	6.15	5.05
TLE5206-2GCT-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	TO-263-7	7.43	6.74	5.62
TLE5206-2GTR-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	TO-263-7	3443.00/1,000		
TLE5206-2IN-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-220-7	6.89	6.15	5.05
TLE5206-2S-ND	5A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	TO-220-7	6.89	6.15	5.05
TLE6208-6GINCT-ND	Hex Half Bridge/Double Six-Driver for DC Motor Applications*	DSO-28-6	7.16	6.49	5.41
TLE6208-6GINTR-ND	Hex Half Bridge/Double Six-Driver for DC Motor Applications*	DSO-28-6	3476.00/1,000		
TLE6209RCT-ND	7A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	DSO-20	9.99	9.05	7.54
TLE6209RTR-ND	7A Half Bridge Drvr. for DC Motor Applications* ***NEW!***	DSO-20	3889.60/800		
TLE6220GPINCT-ND	Smart Quad Low-Side Switch*	DSO-20	7.65	6.89	5.61
TLE6220GPINTR-ND	Smart Quad Low-Side Switch*	DSO-20	3059.20/800		
TLE6225GINCT-ND	Smart Quad Low-Side Switch*	DSO-20	3.71	3.34	2.73
TLE6225GINTR-ND	Smart Quad Low-Side Switch*	DSO-20	1732.00/1,000		
TLE6228GPCT-ND	Smart Quad Channel Low-Side Switch* ***NEW!***	DSO-20	9.81	8.83	7.20
TLE6228GPTR-ND	Smart Quad Channel Low-Side Switch* ***NEW!***	DSO-20	2912.00/800		
TLE6230GPCT-ND	Smart Octal Low-Side Switch* ***NEW!***	DSO-36	6.84	6.16	5.02
TLE6230GPTR-ND	Smart Octal Low-Side Switch* ***NEW!***	DSO-36	2743.20/800		
TLE6232GPCT-ND	Smart 6-Channel Low-Side Switch* ***NEW!***	DSO-36	9.67	8.77	7.31
TLE6232GPTR-ND	Smart 6-Channel Low-Side Switch* ***NEW!***	DSO-36	3407.20/800		
TLE6254-3GCT-ND	Fault Tolerant Low Speed CAN Transceiver* ***NEW!***	DSO-14	3.05	2.62	2.14
TLE6254-3GTR-ND	Fault Tolerant Low Speed CAN Transceiver* ***NEW!***	DSO-14	2940.00/2,500		
TLE6258-2GCT-ND	LIN Transceiver* ***NEW!***	DSO-8	1.64	1.47	1.17
TLE6258-2GTR-ND	LIN Transceiver* ***NEW!***	DSO-8	1512.50/2,500		
TLE6280GPCT-ND	3-Phase Bridge Driver* ***NEW!***	DSO-36	8.16	7.40	6.17
TLE6280GPTR-ND	3-Phase Bridge Driver* ***NEW!***	DSO-36	3236.00/800		
TLE6281GCT-ND	850mA Half Bridge Driver* ***NEW!***	DSO-20	4.97	4.48	3.65
TLE6281GTR-ND	850mA Half Bridge Driver* ***NEW!***	DSO-20	2321.00/1,000		
TLE6282GCT-ND	850mA Dual Half Bridge Driver* ***NEW!***	DSO-20	4.97	4.48	3.65
TLE6282GTR-ND	850mA Dual Half Bridge Driver* ***NEW!***	DSO-20	2321.00/1,000		
TLE6284GCT-ND	850mA Half Bridge Driver* ***NEW!***	DSO-20	4.97	4.48	3.65
TLE6284GTR-ND	850mA Half Bridge Driver* ***NEW!***	DSO-20	2321.00/1,000		
TLE6365GCT-ND	Step-Down Voltage Regulator with Reset* ***NEW!***	DSO-8	3.85	3.47	2.83
TLE6365GTR-ND	Step-Down Voltage Regulator with Reset* ***NEW!***	DSO-8	4265.00/2,500		
TLE6389-3G V50CT-ND	5V Step-Down DC/DC Controller	DSO-14	5.26	4.74	3.87
TLE6389-3G V50TR-ND	5V Step-Down DC/DC Controller	DSO-14	5835.00/2,500		
TLE7183FCT-ND	3-Phase Bridge Driver* ***NEW!***	VQFN-48	8.46	7.66	6.39
TLE7183FTR-ND	3-Phase Bridge Driver* ***NEW!***	VQFN-48	8296.00/2,000		
TLE7230GCT-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	DSO-24	6.41	5.78	4.71
TLE7230GTR-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	DSO-24	2992.00/1,000		
TLE7230GSCT-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	SSOP-24	4.42	3.99	3.25
TLE7230GSTR-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	SSOP-24	4902.50/2,500		
TLE7230RCT-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	DSO-36	7.14	6.43	5.24
TLE7230RTR-ND	Smart 8-Channel Low-Side Switch* ***NEW!***	DSO-36	2854.40/800		
TLE7231GCT-ND	4-Channel Low-Side SPI Driver* ***NEW!***	DSO-14	3.43	2.94	2.41
TLE7231GTR-ND	4-Channel Low-Side SPI Driver* ***NEW!***	DSO-14	3307.50/2,500		
TLE7232GCT-ND	8-Channel Low-Side Power Switch* ***NEW!***	DSO-24	4.31	3.88	3.17
TLE7232GTR-ND	8-Channel Low-Side Power Switch* ***NEW!***	DSO-24	2012.00/1,000		
TLE7232GSCT-ND	8-Channel Low-Side Power Switch* ***NEW!***	SSOP-24	4.11	3.70	3.02
TLE7232GSTR-ND	8-Channel Low-Side Power Switch* ***NEW!***	SSOP-24	4555.00/2,500		
TLE7241EINCT-ND	Dual Ch. Constant Current Control Solenoid Driver*	DSO-20	10.38	9.41	7.84
TLE7241EINTR-ND	Dual Ch. Constant Current Control Solenoid Driver*	DSO-20	5288.00/1,000		
TLE7259-2GEINCT-ND	LIN Transceiver*	PG-DSO-8	1.79	1.60	1.27
TLE7259-2GEINTR-ND	LIN Transceiver*	PG-DSO-8	1645.00/2,500		
TLE7259-2GUINCT-ND	LIN Transceiver*	PG-DSO-8	1.79	1.60	1.27
TLE7259-2GUINTR-ND	LIN Transceiver*	PG-DSO-8	1645.00/2,500		
TLE7269GCT-ND	Twin LIN Transceiver* ***NEW!***	DSO-14	2.73	2.34	1.91
TLE7269GTR-ND	Twin LIN Transceiver* ***NEW!***	DSO-14	2630.00/2,500		
TLE7270DCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3.25	2.93	2.39
TLE7270DTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-5	3605.00/2,500		
TLE7273G V50CT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	3.91	3.53	2.87
TLE7273G V50TR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	DSO-14	4335.00/2,500		
TLE7274DCT-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	2.88	2.48	2.02
TLE7274DTR-ND	5V Low Dropout Voltage Regulator* ***NEW!***	TO-252-3	2780.00/2,500		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Infineon DigiReel® (Cont.) INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
TLE7368ECT-ND	MCU LDO Voltage Regulator* ***NEW!***	DSO-36	11.41	10.33	8.61
TLE7368ETR-ND	MCU LDO Voltage Regulator* ***NEW!***	DSO-36	5810.00/1,000		
TLE7368GCT-ND	MCU LDO Voltage Regulator* ***NEW!***	DSO-36	10.62	9.62	8.02
TLE7368GTR-ND	MCU LDO Voltage Regulator* ***NEW!***	DSO-36	4566.40/800		
TLE7469G V52CT-ND	5V / 2.6V Low Dropout Voltage Regulator* ***NEW!***	DSO-12	4.74	4.27	3.48
TLE7469G V52TR-ND	5V / 2.6V Low Dropout Voltage Regulator* ***NEW!***	DSO-12	2211.00/1,000		
TLE7469G V53CT-ND	5V / 3.3V Low Dropout Voltage Regulator* ***NEW!***	DSO-12	4.74	4.27	3.48
TLE7469G V53TR-ND	5V / 3.3V Low Dropout Voltage Regulator* ***NEW!***	DSO-12	2211.00/1,000		
TLE8102SGCT-ND	Smart Dual Ch. Low Side Powertrain Switch* ***NEW!***	DSO-12	7.15	6.44	5.25
TLE8102SGTR-ND	Smart Dual Ch. Low Side Powertrain Switch* ***NEW!***	DSO-12	3335.00/1,000		
TLE8104ECT-ND	Smart Quad Ch. Low Side Powertrain Switch* ***NEW!***	DSO-20	5.80	5.23	4.26
TLE8104ETR-ND	Smart Quad Ch. Low Side Powertrain Switch* ***NEW!***	DSO-20	2708.00/1,000		
TLE42694GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	1.80	1.55	1.27
TLE42694GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-8	1737.50/2,500		
TLE42694GMCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-14	2.05	1.76	1.44
TLE42694GMTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	DSO-14	1977.50/2,500		
TLE42754GCT-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-263-5	2.46	2.12	1.73
TLE42754GTR-ND	5V Low Dropout Fixed Voltage Regulator* ***NEW!***	TO-263-5	1021.00/1,000		
	Sensors				
KT230INCT-ND	Silicon Temperature Sensor	SOT-23	.70	.53	.47
KTY135INCT-ND	Silicon Temperature Sensor*	SOT-23	.56	.48	.38
TLE4905GINCT-ND	Unipolar Hall IC Switch for Magnetic Field Applications	SOT-89	1.16	1.04	.83
TLE4905GINTR-ND	Unipolar Hall IC Switch for Magnetic Field Applications	SOT-89	458.00/1,000		
TLE4905LE6433INCT-ND	Unipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	1.16	1.04	.83
TLE4905LE6433INTB-ND	Unipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	3235.62/8,000		
TLE4906LINCT-ND	High Precision Hall-Effect Switch*	PG-SSO-3-2	1.15	1.04	.82
TLE4906LINTB-ND	High Precision Hall-Effect Switch*	PG-SSO-3-2	850.08/2,000		
TLE4913INCT-ND	Low Power Hall Switch*	SC-59-3-1	.93	.81	.64
TLE4913INTR-ND	Low Power Hall Switch*	SC-59-3-1	918.00/3,000		
TLE4925INCT-ND	Dynamic Differential Hall-Effect Sensor*	SSO-3-6	4.64	4.18	3.41
TLE4942-1CINCT-ND	Differential 2-Wire Hall-Effect Sensor*	SSO-2-2	6.36	5.73	4.67
TLE4942-1CINTB-ND	Differential 2-Wire Hall-Effect Sensor*	SSO-2-2	4451.37/1,500		
TLE4945LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	1.22	1.10	.87
TLE4945LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	901.04/2,000		
TLE4945-2GINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SOT-89	1.20	1.07	.85
TLE4945-2GINTR-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SOT-89	472.00/1,000		
TLE4945-2LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1.38	1.07	.94
TLE4990INCT-ND	Programmable Linear Ratiometric Hall IC	PG-SSO-4-1	5.72	4.55	3.97
TLE4990INTB-ND	Programmable Linear Ratiometric Hall IC	PG-SSO-4-1	14961.36/8,000		
	Specialized Integrated Circuits				
BCR400WE6327INCT-ND	Active Bias Controller*	SOT-343	.63	.45	.27
BCR400WE6327INTR-ND	Active Bias Controller*	SOT-343	270.00/3,000		
BCR410WE6327INCT-ND	Active Bias Controller*	SOT-343	.58	.42	.28
BCR410WE6327INTR-ND	Active Bias Controller*	SOT-343	297.00/3,000		
BGA420E6327INCT-ND	SI-MMIC Amp* ***NEW!***	SOT-343	1.01	.88	.69
BGA420E6327INTR-ND	SI-MMIC Amp* ***NEW!***	SOT-343	996.00/3,000		
BGA428E6327INCT-ND	High Gain Low Noise Amp*	SOT-363	1.29	1.16	.92
BGA428E6327INTR-ND	High Gain Low Noise Amp*	SOT-363	1425.00/3,000		
BGA612E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.45	1.30	1.03
BGA612E6327INTR-ND	Silicon Germanium Broadband MMIC Amp* ***NEW!***	SOT-343	1598.52/3,000		
BGA614E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.73	1.55	1.23
BGA614E6327INTR-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1908.00/3,000		
BGA615L7E6327INCT-ND	Silicon Germanium GPS Low Noise Amp*	TSLP-7	1.53	1.18	1.04
BGA616E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.55	1.40	1.11
BGA616E6327INTR-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1719.00/3,000		
BGA622E6820INCT-ND	Silicon Germanium Wide Band LN Amp* ***NEW!***	SOT-343	1.55	1.40	1.11
BGA622E6820INTR-ND	Silicon Germanium Wide Band LN Amp* ***NEW!***	SOT-343	1719.00/3,000		
BGA622L7E6327INCT-ND	Wide Band Low Noise Amp*	TSLP-7	1.80	1.62	1.28
BGA715L7E6327INCT-ND	Silicon Germanium GPS Low Noise Amp*	TSLP-7-1	1.47	1.32	1.05
BGA715L7E6327INTR-ND	Silicon Germanium GPS Low Noise Amp*	TSLP-7-1	3862.50/7,500		
BGA771L16E6327INCT-ND	Low Power MMIC Low Noise Amp*	TSLP-16-1	2.06	1.77	1.45
BGA771L16E6327INTR-ND	Low Power MMIC Low Noise Amp*	TSLP-16-1	5752.50/7,500		
ICE2A0565IN-ND	Off-Line SMPS Current Mode Controller*	8-Dip	1.46	1.30	1.03
ICE2A180ZIN-ND	Off-Line SMPS Current Mode Controller	7-Dip	1.69	1.53	1.23
ICE2A765PIN-ND	Off-Line SMPS Current Mode Controller*	TO-220	3.64	3.25	2.67
ICE2B765PIN-ND	Off-Line SMPS Current Mode Controller	TO-220	3.64	3.25	2.67
ICE2PCS02GCT-ND	Standalone PFC Controller* ***NEW!***	DSO-8	1.88	1.68	1.34
ICE2PCS02GTR-ND	Standalone PFC Controller* ***NEW!***	DSO-8	1465.00/2,500		
ICE2PCS04GCT-ND	Standalone PFC Controller* ***NEW!***	DSO-8	1.87	1.67	1.33
ICE2PCS04GTR-ND	Standalone PFC Controller* ***NEW!***	DSO-8	1915.00/2,500		
ICE2QS01-ND	Quasi-Resonant PWM Controller* ***NEW!***	8-Dip	1.28	1.14	.90
ICE3A0365-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	8-Dip	1.37	1.22	.97
ICE3A1065L-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	8-Dip	1.56	1.39	1.10
ICE3B0365J-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	8-Dip	1.05	.94	.74
ICE3B0365JG-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	DSO-16/12	1.36	1.21	.96
ICE3BR0665J-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	8-Dip	3.04	2.75	2.21
ICE3BR0665JF-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	TO-220-6	3.04	2.75	2.21
ICE3BR4765J-ND	Off-Line SMPS Current Mode Controller* ***NEW!***	8-Dip	1.14	1.02	.80
PEB2075N-V13INCT-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	27.90	24.42	20.06
PEB20256E-V21IN-ND	Multi-Ch. Network Interface Controller for HDLC/PPP	P-BGA-388	182.99	171.19	159.39
PEB20320H-V34IN-ND	Multi-Ch. Network Interface Controller for HDLC	P-MQFP-160-1	91.65	77.19	66.33
PEB20321H-V22IN-ND	Multi-Ch. Network Interface Ctrlr. for HDLC w/ Ext.	P-MQFP-160-1	87.94	76.82	71.52
PEF22810T-V21INCT-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	DSO-8	4.12	3.14	2.75
PMB2201RV12TRINCT-ND	2.5GHz Mixer DC and 0.8GHz-1.5GHz Vector Modulator	P-TSSOP-24	6.24	4.96	4.32
PXB4220E-V32IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	160.12	144.63	116.22
PXB4220E-V33IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	111.68	97.55	90.83
SAB82525N-V21INCT-ND	2-Ch. High Level Serial Communication Controller Extended (HSCX)	P-LCC-44-1	20.85	18.77	17.21
SAE800IN-ND	Prog. Single/Dual/Triple Tone Gong*	Dip-8-4	5.72	5.12	4.20
TCA785IN-ND	LSL Compatible Phase Control IC*	16-Dip	6.36	5.73	4.71
TDA5103AINCT-ND	344MHz-347MHz ASK Transmitter	P-TSSOP-10	3.75	2.86	2.50
TDA5201INCT-ND	310MHz and 345MHz Low Power ASK Single Receiver*	P-TSSOP-28-1	3.75	3.38	2.76
TDA5201INTR-ND	310MHz and 345MHz Low Power ASK Single Receiver*	P-TSSOP-28-1	8844.00/3,000		
TDA5211INCT-ND	310MHz-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28	3.39	2.58	2.26
TDA5212INCT-ND	910MHz-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28	2.30	1.98	1.62
TDA21201-B7INCT-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2	5.25	4.73	3.85
TDA21201-P7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-3	5.29	4.69	3.71
TDA21201-S7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-230	4.70	4.25	3.41

Infineon EVALUATION AND DEMO BOARDS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EASY6996FCIN-ND	Board Evaluation ADM6996FC	—	143.05	—	—
EASY6996LCIN-ND	Board Evaluation ADM6996LC	—	103.04	—	—
EASY6996MCPUIN-ND	Board Evaluation with CPU ADM6996M	—	203.00	—	—
EASY6999IN-ND	Board Evaluation ADM6999	—	178.64	—	—
EASY6999UIN-ND	Board Evaluation ADM6999U	—	170.52	—	—
EASY7001MIIIN-ND	Board Evaluation ADM7001	—	76.41	—	—
EASY983BIN-ND	Board Evaluation ADM983B	—	55.59	—	—
EVALSF2-ICE2A0565Z-12IN-ND	Board Demo ICE2A0565Z 10W SMPS	—	213.15	—	—
EVALSF2-ICE2A365IN-ND	Board Demo ICE2A365 40W SMPS	—	213.15	—	—
EVALSF2-ICE2B765PIN-ND	Board Demo ICE2B765P 80W SMPS	—	213.15	—	—
EVALSF3-ICE3A5565PIN-ND	Board Demo ICE3A5565P 100W SMPS	—	213.15	—	—
EVALSF3-ICE3B0565IN-ND	Board Demo ICE3B0565 15W SMPS	—	213.15	—	—
EVALSF3-ICE3B1565IN-ND	Board Demo ICE3B1565 20W SMPS	—	183.75	—	—
EVALSF3-ICE3B2065PIN-ND	Board Demo ICE3B2065P 40W SMPS	—	213.15	—	—
EVALSF3-ICE3B2565IN-ND	Board Demo ICE3B2565 30.4W SMPS	—	213.15	—	—
EVALSF3-ICE3DS01IN-ND	Board Demo ICE3DS01 60W 8-Dip	—	213.15	—	—
EVALSF3-ICE3DS01G-60WIN-ND	Board Demo ICE3DS01G 60W SO-8	—	198.94	—	—
EVALPFC2-ICE2PCS01IN-ND	Board Demo CCM-PFC 300/500W SMPS	—	213.15	—	—
EVALSF3-ICE3B2065PIN-ND	Board Demo ICE3B2065P 40W SMPS	—	213.15	—	—
BGA616EVALIN-ND	Board Application Populated BGA616	—	39.00	—	—
DEMOBOARDPROFETIN-ND	Board Demo Profet® V2.0BTS	—	567.00	—	—
DEMOBOARDTLE4242GIN-ND	Board Demo TLE4242G	—	63.75	—	—
DEMOBOARDTLE6208-3GIN-ND	Board Demo TLE6208-3G	—	276.23	—	—
DEMOBOARDTLE6208-6GIN-ND	Board Demo TLE6208-6G	—	326.25	—	—
DEMOBOARDTLE6214LIN-ND	Board Demo TLE 6214L	—	975.00	—	—
DEMOBOARDTLE6244XIN-ND	Board Demo TLE 6244X	—	975.00	—	—
DEMOBOARDTLE6288RIN-ND	Board Demo TLE 6288R	—	975.00	—	—
DEMOBOARDTLE6365GIN-ND	Board Demo TLE 6365 Rev. 4	—	148.69	—	—
DEMOBOARDTLE6389-2GVIN-ND	Board Demo TLE 6389-2GV	—	148.69	—	—
DEMOBOARDTLE6389-2GV50IN-ND	Board Demo TLE 6389-2 GV50	—	148.69	—	—
DEMOBOARDTLE6389-3GV50IN-ND	Board Demo TLE 6389-3 GV50	—	148.69	—	—
DEMOBOARDTLE7209-2RIN-ND	Board Demo TLE 7209-2R	—	203.00	—	—
DEMOBOARDTLE8201RIN-ND	Board Demo TLE8201R V1.0	—	326.25	—	—

zilog COUNTERS/TIMERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
Z84C3006AEG	269-4576-ND	6MHz, Z80 CMOS Counter/Timer Circuit*	44-LQFP	5.52	4.14	3.06
Z84C3006PEG	269-3910-ND	6MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	5.52	4.14	3.06
Z84C3008PEG	269-3911-ND	8MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	5.52	4.14	3.06
Z84C3010PEG	269-3914-ND	10MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	5.52	4.14	3.06
Z84C3010VEC	269-3043-ND	10MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	4.92	3.69	2.73
Z84C3010VEG	269-3915-5-ND	10MHz, Z80 CMOS Counter/Timer Circuit*	44-PLCC	5.52	4.14	3.06
Z84C9010VEG	269-4697-5-ND	10MHz, Serial/Parallel Counter/Timer*	84-PLCC	20.55	15.42	11.41

zilog PERIPHERAL CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
Z84C1510AEG	269-3905-ND	10MHz, Z80 Intelligent Peripheral Controller*	100-VQFP	15.84	11.88	8.80
Z84C1510FEG	269-3906-ND	10MHz, Z80 Intelligent Peripheral Controller*	100-QFP	15.84	11.88	8.80
Z84C1516FSG	269-3908-ND	16MHz, Z80 Intelligent Peripheral Controller*	100-QFP	20.58	15.44	11.44
Z8018220AEG	269-4693-ND	20MHz, Intelligent Peripheral Cont.*	100-VQFP	30.39	22.80	16.88
Z8018233FSG	269-4694-ND	33MHz, Intelligent Peripheral Cont.*	100-QFP	26.40	19.80	14.67

zilog SERIAL COMMUNICATION CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
Z16C3010AEG	269-4687-ND	10MHz, Universal Serial Controller*	100-VQFP	97.83	73.38	54.36
Z16C3010VEG	269-4688-5-ND	10MHz, Universal Serial Controller*	68-PLCC	97.83	73.38	54.36
Z16C3220VSG	269-4689-5-ND	20MHz, Integrated Universal Serial Controller*	68-PLCC	30.42	22.82	16.90
Z16C3516VSG	269-4690-5-ND	16MHz, CMOS Integrated Serial Communication Controller*	68-PLCC	37.02	27.77	20.56
Z84C2010VEG	269-4695-5-ND	10MHz, Z80 Parallel Input/Output*	44-PLCC	5.52	4.14	3.06
Z84C4410VEG	269-4696-5-ND	10MHz, Z80 Serial In/Out Controller*	44-PLCC	11.70	8.78	6.50
Z8523L08VEG	269-4734-ND	8MHz, Enhanced Serial Communications Controller* ***NEW!***	44-PLCC	22.35	16.77	12.42
Z8523L08VSG	269-4733-ND	8MHz, Enhanced Serial Communications Controller* ***NEW!***	44-PLCC	15.51	11.64	8.61
Z8523L10VEG	269-4732-ND	10MHz, Enhanced Serial Communications Controller* ***NEW!***	44-PLCC	31.74	23.81	17.63
Z8523L10VSG	269-4731-ND	10MHz, Enhanced Serial Communications Controller* ***NEW!***	44-PLCC	19.56	14.67	10.86
Z8523L16VSG	269-4730-ND	16MHz, Enhanced Serial Communications Controller* ***NEW!***	44-PLCC	25.14	18.86	13.96
Z8018110FEG	269-4692-ND	10MHz, Smart Access Controller*	100-QFP	25.53	19.15	14.18
Z8523008PEC	269-3044-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature	40-Dip	22.62	16.97	12.56
Z8523008PEG	269-3916-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature*	40-Dip	25.32	18.99	14.07
Z8523008PSG	269-3917-ND	8MHz, Enhanced Serial Comm. Controller*	40-Dip	15.51	11.64	8.61
Z8523008VEG	269-3918-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature*	44-PLCC	22.35	16.77	12.42
Z8523008VSG	269-3919-ND	8MHz, Enhanced Serial Comm. Controller*	44-PLCC	15.51	11.64	8.61
Z8523010PSG	269-3921-ND	10MHz, Enhanced Serial Comm. Controller*	40-Dip	19.56	14.67	10.86
Z8523010VEG	269-3922-ND	10MHz, Enhanced Serial Communication Controller Extended Temperature*	44-PLCC	31.74	23.81	17.63
Z8523010VSG	269-3923-ND	10MHz, Enhanced Serial Comm. Controller*	44-PLCC	19.56	14.67	10.86
Z8523016PEG	269-3924-ND	16MHz, Enhanced Serial Communication Controller Extended Temperature*	40-Dip	39.12	29.34	21.74
Z8523016VEG	269-3926-ND	16MHz, Enhanced Serial Communication Controller Extended Temperature*	44-PLCC	39.12	29.34	21.74
Z8523016VSG	269-3927-ND	16MHz, Enhanced Serial Comm. Controller*	44-PLCC	25.14	18.86	13.96
Z8523316ASG	269-4698-ND	16MHz, Enhanced Mono Serial Communication Controller*	44-LQFP	18.12	13.59	10.07
Z8523020VSG	269-3928-ND	20MHz, Enhanced Serial Comm. Controller*	44-PLCC	33.15	24.87	18.41
Z85C3008PEG	269-3929-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	13.17	9.88	7.32
Z85C3008PSG	269-3930-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	8.79	6.60	4.89
Z85C3008VEG	269-3931-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	13.17	9.88	7.32

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

zilog (Cont.) SERIAL COMMUNICATION CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Z85C3008VSG	269-3932-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	8.79	6.60	4.89
Z85C3010PEG	269-3933-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	15.00	11.25	8.33
Z85C3010PSG	269-3934-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	10.05	7.54	5.59
Z85C3010VEG	269-3935-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	15.00	11.25	8.33
Z85C3010VSG	269-3936-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	10.05	7.54	5.59
Z85C3016VSG	269-3938-ND	16MHz Z8500 CMOS Serial Comm. Controller*	44-PLCC	14.70	11.03	8.16

NXP DigiReel® AMPLIFIERS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NE5234D/01,512	568-3193-5-ND	Matched Quad High Performance Op Amp	14-SOIC	2.48	2.00	1.80
SA5217D/01,112	568-3570-5-ND	Postamp with Link Status	20-SOIC	9.39	7.52	6.34
SA5234D/01,512	568-3573-5-ND	Matched Quad High Performance Low Voltage Op Amp	14-SOIC	3.00	2.43	2.18
SA58631TK,118	568-2450-1-ND	3W BTL Audio Amp	8-HVSON	2.16	1.67	1.52
SA58631TK,118	568-2450-2-ND	3W BTL Audio Amp	8-HVSON	3630.00/6,000		
SA58632BS,118	568-2451-1-ND	2x2.2W BTL Audio Amp	20-HVQFN	2.59	2.00	1.82
SA58632BS,118	568-2451-2-ND	2x2.2W BTL Audio Amp	20-HVQFN	2412.50/2,500		
SA58637BS,118	568-4356-1-ND	2x2.2W BTL Audio Amp	20-HVQFN	2.59	2.00	1.82
SA58637BS,118	568-4356-2-ND	2x2.2W BTL Audio Amp	20-HVQFN	2412.50/2,500		
SA58670ABS,115	568-4354-1-ND	2.1W/Ch. Stereo Class-D Audio Amp	20-HVQFN	1.82	1.41	1.28
SA58670ABS,115	568-4354-2-ND	2.1W/Ch. Stereo Class-D Audio Amp	20-HVQFN	1131.00/1,500		
SA58670BS,115	568-4268-1-ND	Class-D Stereo Audio Amp	20-HVQFN	1.39	1.10	.99
SA58670BS,115	568-4268-2-ND	Class-D Stereo Audio Amp	20-HVQFN	922.50/1,500		
SA58671UK,027	568-4355-1-ND	1.2W/Ch. Stereo Class-D Audio Amp	16-WLCSP	1.52	1.20	1.08
SA58671UK,027	568-4355-2-ND	1.2W/Ch. Stereo Class-D Audio Amp	16-WLCSP	1965.00/3,000		
TDA1308AT/N2,115	568-3498-1-ND	Class-AB Stereo Headphone Driver	8-SOIC	.75	.58	.52
TDA1308AUK,027	568-4184-1-ND	Class-AB Stereo Headphone Driver	8-WLCSP	.68	.53	.47
TDA1308T/N2,112	568-2090-5-ND	Class-AB Stereo Headphone Driver	8-SOIC	.62	.46	.39
TDA1308TT/N2,118	568-3499-1-ND	Class-AB Stereo Headphone Driver	8-TSSOP	.66	.51	.45
TDA1308TT/N2,118	568-3499-2-ND	Class-AB Stereo Headphone Driver	8-TSSOP	565.00/2,500		
TDA1517ATW/N1,112	568-3500-5-ND	2x4W SE BTL Power Amp	20-HTSSOP	1.00	.81	.71
TDA1517P/N3,112	568-1128-5-ND	2x6W Stereo Power Amp	18-HDip	1.37	1.10	.96
TDA1517/N3,112	568-3501-5-ND	2x6W Stereo Power Amp	9-SIL	1.37	1.10	.96
TDA1596T/V3,512	568-3581-5-ND	IF Amp/Demodulator	20-SOIC	4.22	3.40	3.10
TDA2611A/N5,112	568-1135-5-ND	5W Audio Power Amp	9-SIL	1.07	.86	.75
TDA2616Q/N1,112	568-3496-5-ND	2x12W Audio Power Amp	9-SIL	1.45	1.17	1.06
TDA5051AT/C1,512	568-1136-5-ND	Home Automation Modem	16-SOIC	5.74	4.62	4.21
TDA6111Q/N4,112	568-3587-5-ND	Video Output Amp	9-SIL	4.24	3.41	3.11
TDA7052A/N2,112	568-1138-5-ND	1W BTL Mono Audio Amp	8-Dip	1.14	.91	.80
TDA7052AT/N2,118	568-1139-1-ND	1W BTL Mono Audio Amp	8-SOIC	1.24	.98	.88
TDA7052AT/N2,118	568-1139-2-ND	1W BTL Mono Audio Amp	8-SOIC	1137.50/2,500		
TDA7056AT/N2,512	568-3493-5-ND	3W BTL Mono Audio Amp	20-SOIC	1.27	1.02	.90
TDA7056A/N2,112	568-1141-5-ND	3W BTL Mono Audio Output Amp	9-SIL	1.27	1.02	.90
TDA7056B/N1,112	568-1142-5-ND	3W BTL Mono Audio Amp	9-SIL	1.73	1.39	1.22
TDA8541T/N1,112	568-3475-5-ND	1W BTL Audio Amp	8-SOIC	1.64	1.32	1.15
TDA8542AT/N1,512	568-3476-5-ND	2x1.5W BTL Audio Amp	20-SOIC	3.04	2.45	2.21
TDA8542TS/N1,118	568-2379-1-ND	2x0.7W BTL Audio Amp	20-SSOP	3.43	2.65	2.41
TDA8542TS/N1,118	568-2379-2-ND	2x0.7W BTL Audio Amp	20-SSOP	2720.00/2,500		
TDA8543T/N1,518	568-2380-1-ND	2W BTL Audio Amp	16-SOIC	2.06	1.59	1.44
TDA8547TS/N1,118	568-2381-1-ND	2x0.7W BTL Audio Amp	20-SSOP	2.80	2.16	1.96
TDA8547TS/N1,118	568-2381-2-ND	2x0.7W BTL Audio Amp	20-SSOP	2982.50/2,500		
TDA8551T/N1,112	568-3477-5-ND	1W BTL Audio Amp	8-SOIC	1.27	1.02	.90
TDA8552TS/N1,118	568-3479-1-ND	2x1.4W BTL Audio Amp	20-SSOP	1.86	1.44	1.30
TDA8559T/N1,512	568-3480-5-ND	Low Voltage Stereo Headphone Amp	16-SOIC	.98	.79	.69
TDA8579T/N1,112	568-3592-5-ND	Dual Common-Mode Rejection Diff. Line Receiver	8-SOIC	1.98	1.60	1.44
TDA8920BJ/N2,112	568-3463-5-ND	2x100W Class-D Power Amp	23-SIL	6.95	5.70	5.15
TDA8920BTH/N2,118	568-2060-1-ND	2x100W Class-D Power Amp	24-HSOP	6.87	5.71	5.19
TDA8920BTH/N2,118	568-2060-2-ND	2x100W Class-D Power Amp	24-HSOP	2010.00/500		
TDA8920CJ/N1,112	568-4784-5-ND	2x110W Class-D Power Amp ***NEW!***	23-SIL	6.74	5.42	4.94
TDA8920CTH/N1,118	568-4783-1-ND	2x110W Class-D Power Amp ***NEW!***	24-HSOP	6.85	5.60	5.03
TDA8920CTH/N1,118	568-4783-2-ND	2x110W Class-D Power Amp ***NEW!***	24-HSOP	1896.50/500		
TDA8922BJ/N2,112	568-3465-5-ND	2x50W Class-D Power Amp	23-SIL	6.05	4.87	4.44
TDA8944J/N1,112	568-3462-5-ND	2x7W BTL Audio Amp	17-SIL	1.77	1.43	1.29
TDA8950TH/N1,118	568-4781-1-ND	2x150W Class D Audio Amp ***NEW!***	24-HSOP	7.53	6.25	5.68
TDA8950TH/N1,118	568-4781-2-ND	2x150W Class D Audio Amp ***NEW!***	24-HSOP	2201.50/500		
TDA8950J/N1,112	568-4782-5-ND	2x150W Class D Audio Amp ***NEW!***	23-SIL	7.41	6.08	5.48
TFA9842BJ/N1,112	568-3452-5-ND	2-Channel Audio Amp	9-SIL	1.33	1.07	.94
TJA1010T/N1,118	568-3614-1-ND	Octal Low Side Driver	28-SOIC	2.46	1.90	1.73

NXP DigiReel® CLOCK MANAGEMENT

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCK210BS,118	568-2032-1-ND	Low Voltage Dual 1:5 Diff. ECL/PECL Clock Driver	32-HVQFN	4.42	3.61	3.24
PCK953BD/G,128	568-2033-1-ND	20-125MHz PECL Input / 9 CMOS Output 3.3V PLL Clock Driver	32-LQFP	3.93	3.21	2.88

NXP DigiReel® REAL TIME CLOCKS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA8565TS/1,118	568-1902-1-ND	I²C Real Time Clock/Calendar	8-TSSOP	2.91	2.25	2.04
PCA8565TS/1,118	568-1902-2-ND	I²C Real Time Clock/Calendar	8-TSSOP	2802.50/2,500		
PCA21125T/Q900/1,1	568-5063-1-ND	SPI Real Time Clock/ Calendar ***NEW!***	14-TSSOP	2.88	2.32	2.12
PCA21125T/Q900/1,1	568-5063-2-ND	SPI Real Time Clock/ Calendar ***NEW!***	14-TSSOP	3425.00/2,500		
PCF2123BS/1,512	568-5051-5-ND	SPI Real Time Clock/ Calendar ***NEW!***	16-HVQFN	1.61	1.29	1.13
PCF2123TS/1,118	568-4534-1-ND	SPI Real Time Clock/Calendar	14-TSSOP	1.75	1.38	1.25
PCF2123TS/1,118	568-4534-2-ND	SPI Real Time Clock/Calendar	14-TSSOP	1610.00/2,500		
PCF2127AT/1,512	568-4961-5-ND	Real Time Clock/Calendar ***NEW!***	20-SOIC	5.07	4.08	3.72
PCF2129AT/1,512	568-4960-5-ND	Real Time Clock/Calendar ***NEW!***	20-SOIC	3.36	2.70	2.46
PCF8563BS/4,118	568-4205-1-ND	Real Time Clock/Calendar	10-HVSON	2.07	1.60	1.45
PCF8563BS/4,118	568-4205-2-ND	Real Time Clock/Calendar	10-HVSON	4602.00/6,000		

NXP DigiReel® (Cont.) REAL TIME CLOCKS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF8563P/F4,112	568-1067-5-ND	Real Time Clock/Calendar	8-Dip	2.33	1.88	1.69
PCF8563T/F4,112	568-5029-ND	Real Time Clock/Calendar ***NEW!***	8-SOIC	2.02	1.63	1.47
PCF8563T/F4,118	568-1068-1-ND	Real Time Clock/Calendar	8-SOIC	2.28	1.76	1.60
PCF8563T/F4,118	568-1068-2-ND	Real Time Clock/Calendar	8-SOIC	2195.00/2,500		
PCF8563TS/4,118	568-4517-1-ND	Real Time Clock/Calendar	8-TSSOP	2.28	1.76	1.60
PCF8563TS/4,118	568-4517-2-ND	Real Time Clock/Calendar	8-TSSOP	2195.00/2,500		
PCF8583P/F5,112	568-1084-5-ND	Clock/Calendar with 240x8-Bit RAM	8-Dip	3.64	2.93	2.67
PCF8583T/5,518	568-1085-1-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	3.21	2.63	2.36
PCF8583T/5,518	568-1085-2-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	1498.00/1,000		
PCF8593P,112	568-1089-5-ND	Low Power Clock/Calendar	8-Dip	3.64	2.93	2.67
PCF8593T/1,118	568-1090-1-ND	Low Power Clock/Calendar	8-SOIC	3.30	2.70	2.42
PCF8593T/1,118	568-1090-2-ND	Low Power Clock/Calendar	8-SOIC	3492.50/2,500		

NXP DigiReel® DATA COMMUNICATIONS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NEW! HDMI ESD Protection NEW!						
IP4778CZ38,118	568-4765-1-ND	DDC Buffering and Hot Plug Control	38-TSSOP	2.96	2.29	2.08
IP4778CZ38,118	568-4765-2-ND	DDC Buffering and Hot Plug Control	38-TSSOP	2855.00/2,500		
USB						
IP4220CZ6,125	568-3529-1-ND	Dual USB 2.0 Integrated ESD Protection	6-TSOP	.56	.33	.27
IP4220CZ6,125	568-3529-2-ND	Dual USB 2.0 Integrated ESD Protection	6-TSOP	396.00/3,000		
ISP1160BD01-T	568-1878-1-ND	Embedded 12M-Bit USB Host Cont.	64-LQFP	5.20	4.16	3.51
ISP1160BD01-T	568-1878-2-ND	Embedded 12M-Bit USB Host Cont.	64-LQFP	4875.00/1,500		
ISP1160BM01-T	568-1879-1-ND	Embedded 12M-Bit USB Host Cont.	64-LQFP	5.20	4.16	3.51
ISP1160BM01-T	568-1879-2-ND	Embedded 12M-Bit USB Host Cont.	64-LQFP	6500.00/2,000		
ISP1161A1BM-S	568-1164-ND	USB Single-Chip Host/Device Cont.	64-LQFP	7.14	5.72	4.82
ISP1183BS-T	568-1880-1-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	3.88	3.11	2.42
ISP1183BS-T	568-1880-2-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	12937.50/6,000		
ISP1362BD-S	568-1219-ND	Single-Chip USB OTG Controller	64-LQFP	8.51	6.81	5.75
ISP1362EE-T	568-1882-1-ND	12M-Bit USB OTG Controller	64-TFBGA	8.91	7.13	6.02
ISP1362EE-T	568-1882-2-ND	12M-Bit USB OTG Controller	64-TFBGA	13810.50/2,500		
ISP1505ABS	568-3155-ND	ULPI Transceiver	24-HVQFN	2.48	1.98	1.54
ISP1506ABS	568-3156-ND	ULPI Transceiver	24-HVQFN	3.97	3.43	2.88
ISP1520BD-S	568-1169-ND	High Speed USB Hub Controller	64-LQFP	5.43	4.35	3.39
ISP1520BD-T	568-1883-1-ND	HS 480M-Bit Hub Controller	64-LQFP	5.43	4.35	3.39
ISP1520BD-T	568-1883-2-ND	HS 480M-Bit Hub Controller	64-LQFP	4618.69/1,500		
ISP1521BE-T	568-1884-1-ND	HS 480M-Bit Hub Controller	80-LQFP	5.95	4.77	3.71
ISP1521BE-T	568-1884-2-ND	HS 480M-Bit Hub Controller	80-LQFP	3372.38/1,000		
ISP1564HL-T	568-4018-1-ND	HS USB PCI Host Controller	100-LQFP	6.38	5.11	3.97
ISP1564HL-T	568-4018-2-ND	HS USB PCI Host Controller	100-LQFP	3614.63/1,000		
ISP1582BS-T	568-1885-1-ND	HS 480M-Bit Peripheral Controller	56-HVQFN	4.92	3.94	3.06
ISP1582BS-T	568-1885-2-ND	HS 480M-Bit Peripheral Controller	56-HVQFN	5571.75/2,000		
ISP1583BS-T	568-1886-1-ND	HS 480M-Bit Peripheral Controller	64-HVQFN	5.12	4.10	3.19
ISP1583BS-T	568-1886-2-ND	HS 480M-Bit Peripheral Controller	64-HVQFN	2903.18/1,000		
ISP1760BE-T	568-1887-1-ND	HS 480M-Bit Host Controller	128-LQFP	9.45	7.56	6.38
ISP1760BE-T	568-1887-2-ND	HS 480M-Bit Host Controller	128-LQFP	5906.25/1,000		
ISP1760ET-S	568-3159-ND	HS USB Host Controller	128-TFBGA	9.86	7.89	6.66
ISP1761BE-T	568-1888-1-ND	HS 480M-Bit OTG Controller	128-LQFP	10.37	8.30	7.00
ISP1761BE-T	568-1888-2-ND	HS 480M-Bit OTG Controller	128-LQFP	6480.00/1,000		
PDIUSBD12PWDH-T	568-1092-1-ND	USB Interface Device, Parallel Bus	28-TSSOP	3.11	2.49	1.94
PDIUSBD12PWDH-T	568-1092-2-ND	USB Interface Device, Parallel Bus	28-TSSOP	4347.00/2,500		

NXP DigiReel® DATA CONVERSION

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A/D and D/A Converters						
PCF8591P,112	568-1087-5-ND	8-Bit A/D and D/A Converter	16-Dip	4.96	3.99	3.63
PCF8591T/2,512	568-3991-5-ND	8-Bit A/D and D/A Converter	16-SOIC	4.06	3.27	2.98
PCF8591T/2,518	568-1088-1-ND	8-Bit A/D and D/A Converter	16-SOIC	4.11	3.36	3.02
PCF8591T/2,518	568-1088-2-ND	8-Bit A/D and D/A Converter	16-SOIC	2030.00/1,000		
Analog-to-Digital Converters						
ADC0804S050TS/C1:1	568-4423-ND	8-Bit ADC up to 50MHz	28-SSOP	5.60	4.59	4.15
ADC0808S125HW/C1:5	568-4424-ND	8-Bit ADC up to 125MHz	48-HTQFP	33.90	28.82	26.70
ADC0808S250HW/C1:5	568-4425-ND	8-Bit ADC up to 250MHz	48-HTQFP	37.94	32.25	29.88
ADC1002S020HL/C1:1	568-4426-ND	10-Bit ADC up to 20MHz	32-LQFP	6.85	5.62	5.07
ADC1003S030TS/C1:1	568-4427-ND	10-Bit ADC up to 30MHz	28-SSOP	5.92	4.86	4.39
ADC1003S050TS/C1:1	568-4429-ND	10-Bit ADC up to 50MHz	28-SSOP	9.74	7.99	7.21
ADC1004S030TS/C1:1	568-4430-ND	10-Bit ADC up to 30MHz	28-SSOP	5.82	4.78	4.31
ADC1005S060TS/C1:1	568-4433-ND	10-Bit ADC up to 60MHz	28-SSOP	9.66	8.13	7.47
ADC1006S055H/C1,55	568-4434-5-ND	10-Bit ADC up to 55MHz	44-QFP	12.05	9.89	8.92
ADC1006S070H/C1,55	568-4435-5-ND	10-Bit ADC up to 70MHz	44-QFP	12.48	10.23	9.24
ADC1206S040H/C1,55	568-4436-5-ND	12-Bit ADC up to 40MHz	44-QFP	17.09	14.38	13.21
ADC1206S055H/C1,55	568-4437-5-ND	12-Bit ADC up to 55MHz	44-QFP	17.58	14.79	13.59
ADC1206S070H/C1,55	568-4438-5-ND	12-Bit ADC up to 70MHz	44-QFP	24.24	20.61	19.09
ADC1207S080HW/C1:5	568-4439-ND	12-Bit ADC up to 80MHz	48-HTQFP	29.26	24.88	23.05
TDA8706AM/C3,518	568-3593-1-ND	6-Bit ADC with Multiplexer	24-SSOP	7.09	5.89	5.36
TDA8763AM/3/C4,112	568-3596-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	9.35	7.67	6.92
TDA8763AM/4/C4,118	568-3597-1-ND	10-Bit High Speed Low Power ADC	28-SSOP	15.74	13.35	12.32
TDA8763AM/4/C4,118	568-3597-2-ND	10-Bit High Speed Low Power ADC	28-SSOP	9100.00/1,000		
TDA8766G/C1,118	568-3602-1-ND	10-Bit High Speed ADC	32-LQFP	6.75	5.61	5.10
TDA8783HL/C4,151	568-3606-ND	10-Bit, 40MHz ADC Interface for CCD Cameras	48-LQFP	22.18	18.86	17.47
TDA8784HL/C4,151	568-3607-ND	10-Bit, 18MHz ADC Interface for CCD Cameras	48-LQFP	10.60	8.70	7.85
Digital-to-Analog Converters						
DAC1003D160HW/C1:1	568-4440-ND	Dual 10-Bit DAC, 160MHz	80-HTQFP	22.34	18.99	17.60
DAC1203D160HW/C1:5	568-4441-ND	Dual 12-Bit DAC, 160MHz	80-HTQFP	30.64	26.05	24.13
DAC1403D160HW/C1:5	568-4442-ND	Dual 14-Bit DAC, 160MHz	80-HTQFP	39.70	33.75	31.27
UDA1330ATS/N2,112	568-3442-5-ND	Low Cost Stereo Filter DAC	16-SSOP	2.14	1.73	1.56
UDA1334ATS/N2,112	568-3443-5-ND	Low Power Audio DAC with PLL	16-SSOP	1.59	1.28	1.12
UDA1334BT/N2,112	568-3444-5-ND	Low Power Audio DAC	16-SOIC	1.50	1.21	1.06

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(Continued)

DATA CONVERSION

(Cont.) ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UDA1334BTS/N2,112	568-3445-5-ND	Low Power Audio DAC	16-SSOP	1.30	1.04	.91
DC-DC Converters						
PIP202-12M-2,518	568-2327-1-ND	DC-DC Converter Powertrain	68-HVQFN	9.38	7.79	7.08
PIP202-12M-2,518	568-2327-2-ND	DC-DC Converter Powertrain	68-HVQFN	12732.50/2,500		
PIP213-12M,518	568-4717-1-ND	DC-DC Conv. Powertrain ***NEW!***	56-HVQFN	9.94	8.25	7.50
PIP213-12M,518	568-4717-2-ND	DC-DC Conv. Powertrain ***NEW!***	56-HVQFN	4050.00/1,000		
Video Encoder / Decoders						
SAA7121H/V2,557	568-1315-ND	Digital Video Encoder	44-QFP	5.68	4.57	4.16
568-2046-N	568-1316-ND	Digital Video Encoder	44-QFP	9.04	7.61	6.99

DATA TRANSMISSION

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CAN						
PCA82C251T/N3,118	568-1023-1-ND	CAN Transceiver for 24V System	8-SOIC	2.10	1.62	1.47
PCA82C251T/N3,118	568-1023-2-ND	CAN Transceiver for 24V System	8-SOIC	2020.00/2,500		
SJA1000T/N1,112	568-3994-5-ND	Stand-Alone CAN Controller	28-SOIC	6.55	5.27	4.80
SJA1000T/N1,118	568-1123-1-ND	Stand-Alone CAN Controller	28-SOIC	7.02	5.74	5.15
SJA1000T/N1,118	568-1123-2-ND	Stand-Alone CAN Controller	28-SOIC	3276.00/1,000		
TJA1020T/N1,112	568-3513-5-ND	LIN Transceiver	8-SOIC	1.52	1.22	1.07
TJA1021T/10/C,118	568-4643-1-ND	LIN 2.0/SAE J2602 Transceiver	8-SOIC	1.31	1.04	.93
TJA1021T/10/C,118	568-4643-2-ND	LIN 2.0/SAE J2602 Transceiver	8-SOIC	1205.00/2,500		
TJA1040T/VM,118	568-4819-1-ND	High Speed CAN Transceiver ***NEW!***	8-SOIC	1.57	1.25	1.12
TJA1040T/VM,118	568-4819-2-ND	High Speed CAN Transceiver ***NEW!***	8-SOIC	1447.50/2,500		
TJA1041AT/VM,518	568-4818-1-ND	High Speed CAN Transceiver ***NEW!***	14-SOIC	2.32	1.80	1.63
TJA1041AT/VM,518	568-4818-2-ND	High Speed CAN Transceiver ***NEW!***	14-SOIC	2237.50/2,500		
TJA1041T/VM,518	568-4817-1-ND	High Speed CAN Transceiver ***NEW!***	14-SOIC	2.32	1.80	1.63
TJA1041T/VM,518	568-4817-2-ND	High Speed CAN Transceiver ***NEW!***	14-SOIC	2237.50/2,500		
TJA1050T/VM,118	568-4814-1-ND	High Speed CAN Transceiver ***NEW!***	8-SOIC	1.27	1.01	.91
TJA1050T/VM,118	568-4814-2-ND	High Speed CAN Transceiver ***NEW!***	8-SOIC	1175.00/2,500		
TJA1054AT,518	568-1152-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.34	1.81	1.64
TJA1054AT,518	568-1152-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2765.00/2,500		
TJA1054T/N1,512	568-1153-5-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.54	2.05	1.85
TJA1054T/N1,518	568-2061-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.87	2.22	2.01
TJA1054T/N1,518	568-2061-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2765.00/2,500		
TJA1080ATS/2/T,118	568-4813-1-ND	FlexRay Transceiver ***NEW!***	20-SSOP	7.48	6.11	5.49
TJA1080ATS/2/T,118	568-4813-2-ND	FlexRay Transceiver ***NEW!***	20-SSOP	3490.00/1,000		
I^{2}C						
P82B96DP,118	568-3197-1-ND	Dual Bi-Directional Bus Buffer	8-TSSOP	3.60	2.94	2.64
P82B96DP,118	568-3197-2-ND	Dual Bi-Directional Bus Buffer	8-TSSOP	3990.00/2,500		
P82B96PN,112	568-1008-5-ND	Dual Bi-Directional Bus Buffer	8-Dip	3.64	2.93	2.67
P82B96TD,112	568-3982-5-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3.36	2.70	2.46
P82B96TD,118	568-1009-1-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3.60	2.94	2.64
P82B96TD,118	568-1009-2-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3990.00/2,500		
P82B715PN,112	568-1006-5-ND	I^{2}C Bus Extender	8-Dip	3.92	3.15	2.87
P82B715TD,112	568-3981-5-ND	I^{2}C Bus Extender	8-SOIC	3.64	2.93	2.67
P82B715TD,118	568-1007-1-ND	I^{2}C Bus Extender	8-SOIC	3.90	3.19	2.86
P82B715TD,118	568-1007-2-ND	I^{2}C Bus Extender	8-SOIC	4322.50/2,500		
PCA8550PW,118	568-3633-1-ND	4-Bit Multiplexed/1-Bit Latched 5-Bit I^{2}C EEPROM Dip Switch	16-TSSOP	1.08	.86	.77
PCA8574AD,512	568-4235-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-SOIC	1.64	1.33	1.20
PCA8574AN,112	568-4236-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-Dip	1.64	1.33	1.20
PCA8574APW,112	568-4237-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-TSSOP	1.64	1.33	1.20
PCA8574ATS,112	568-4238-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	20-SSOP	1.64	1.33	1.20
PCA8574D,512	568-4239-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-SOIC	1.64	1.33	1.20
PCA8574N,112	568-4240-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-Dip	1.64	1.33	1.20
PCA8574PW,112	568-4241-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-TSSOP	1.64	1.33	1.20
PCA8574TS,112	568-4242-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	20-SSOP	1.64	1.33	1.20
PCA8575D,112	568-4229-5-ND	Remote 16-Bit I/O Expander for I^{2}C Bus with Interrupt	24-SOIC	2.11	1.70	1.53
PCA8575PW,112	568-4230-5-ND	Remote 16-Bit I/O Expander for I^{2}C Bus with Interrupt	24-TSSOP	2.11	1.70	1.53
PCA9306D,118	568-4215-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-SOIC	.93	.72	.64
PCA9306D,118	568-4215-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-SOIC	762.50/2,500		
PCA9306DC,125	568-4213-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	1.00	.79	.72
PCA9306DC,125	568-4213-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	1104.00/3,000		
PCA9306DP,118	568-4214-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	.93	.72	.64
PCA9306DP,118	568-4214-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	762.50/2,500		
PCA9306DP1,125	568-4243-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	.93	.72	.64
PCA9306DP1,125	568-4243-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	915.00/3,000		
PCA9306GM,125	568-4187-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-XQFN	.93	.72	.64
PCA9306GM,125	568-4187-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-XQFN	1220.00/4,000		
PCA9500BS,118	568-3351-1-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-HVQFN	2.28	1.76	1.60
PCA9500BS,118	568-3351-2-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-HVQFN	5070.00/6,000		
PCA9500D,112	568-1024-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-SOIC	2.02	1.63	1.47

DATA TRANSMISSION

(Cont.) ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9500PW,112	568-1025-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-TSSOP	2.02	1.63	1.47
PCA9501BS,118	568-3352-1-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-HVQFN	2.42	1.87	1.70
PCA9501BS,118	568-3352-2-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-HVQFN	5382.00/6,000		
PCA9501PW,112	568-1026-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-TSSOP	2.14	1.73	1.56
PCA9502BS,151	568-3635-ND	8-Bit I/O Expander with I^{2}C-Bus/ SPI Interface	24-HVQFN	2.15	1.74	1.57
PCA9505DGG,112	568-4244-5-ND	40-Bit I^{2}C Bus I/O Port	56-TSSOP	4.20	3.38	3.08
PCA9506BS,118	568-3636-1-ND	40-Bit I^{2}C Bus I/O Port	56-HVQFN	4.80	3.92	3.52
PCA9506BS,118	568-3636-2-ND	40-Bit I^{2}C Bus I/O Port	56-HVQFN	4256.00/2,000		
PCA9506DGG,512	568-3354-5-ND	40-Bit I^{2}C Bus I/O Port	56-TSSOP	4.20	3.38	3.08
PCA9509DP,118	568-3356-1-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-TSSOP	1.93	1.49	1.35
PCA9509DP,118	568-3356-2-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-TSSOP	1857.50/2,500		
PCA9509GM,125	568-4288-1-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-XQFN	1.93	1.49	1.35
PCA9509GM,125	568-4288-2-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-XQFN	2972.00/4,000		
PCA9510AD,112	568-3357-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.64	2.13	1.92
PCA9510ADP,118	568-3358-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.98	2.30	2.09
PCA9510ADP,118	568-3358-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2870.00/2,500		
PCA9511AD,112	568-3359-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.64	2.13	1.92
PCA9511ADP,118	568-3360-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.98	2.30	2.09
PCA9511ADP,118	568-3360-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2870.00/2,500		
PCA9512AD,112	568-3361-5-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-SOIC	2.64	2.13	1.92
PCA9512ADP,118	568-3362-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	2.98	2.30	2.09
PCA9512ADP,118	568-3362-2-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	2870.00/2,500		
PCA9513AD,112	568-3363-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.64	2.13	1.92
PCA9513ADP,118	568-3364-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.98	2.30	2.09
PCA9513ADP,118	568-3364-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2870.00/2,500		
PCA9514AD,112	568-3365-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.64	2.13	1.92
PCA9514ADP,118	568-3366-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.98	2.30	2.09
PCA9514ADP,118	568-3366-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2870.00/2,500		
PCA9515AD,112	568-1753-5-ND	I^{2}C Bus Repeater	8-SOIC	1.71	1.38	1.24
PCA9515AD,118	568-1031-1-ND	I^{2}C Bus Repeater	8-SOIC	1.93	1.49	1.35
PCA9515AD,118	568-1031-2-ND	I^{2}C Bus Repeater	8-SOIC	1857.50/2,500		
PCA9515ADP,118	568-1032-1-ND	I^{2}C Bus Repeater	8-TSSOP	1.93	1.49	1.35
PCA9515ADP,118	568-1032-2-ND	I^{2}C Bus Repeater	8-TSSOP	1857.50/2,500		
PCA9515D,112	568-1033-5-ND	I^{2}C Bus Repeater	8-SOIC	1.71	1.38	1.24
PCA9515DP,118	568-1034-1-ND	I^{2}C Bus Repeater	8-TSSOP	1.93	1.49	1.35
PCA9515DP,118	568-1034-2-ND	I^{2}C Bus Repeater	8-TSSOP	1857.50/2,500		
PCA9516AD,112	568-1035-5-ND	5-Channel I^{2}C Hub	16-SOIC	2.28	1.85	1.66
PCA9516AD,118	568-1826-1-ND	5-Channel I^{2}C Hub	16-SOIC	2.10	1.63	1.48
PCA9516APW,112	568-1036-5-ND	5-Channel I^{2}C Hub	16-TSSOP	2.28	1.85	1.66
PCA9516APW,118	568-1827-1-ND	5-Channel I^{2}C Hub	16-TSSOP	2.58	1.99	1.81
PCA9516APW,118	568-1827-2-ND	5-Channel I^{2}C Hub	16-TSSOP	2487.50/2,500		
PCA9517D,118	568-1828-1-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	1.93	1.49	1.35
PCA9517D,118	568-1828-2-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	1857.50/2,500		
PCA9517DP,118	568-1829-1-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	1.93	1.49	1.35
PCA9517DP,118	568-1829-2-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	1857.50/2,500		
PCA9518APW,512	568-4245-5-ND	Expandable 5-Channel I^{2}C Bus Hub	20-TSSOP	2.48	2.00	1.80
PCA9518PW,112	568-1038-5-ND	Expandable 5-Channel I^{2}C Bus Hub	20-TSSOP	2.48	2.00	1.80
PCA9519BS,118	568-4216-1-ND	4-Channel Level Translating I^{2}C Bus/ SMBus Repeater	24-HVQFN	2.58	2.11	1.89
PCA9519BS,118	568-4216-2-ND	4-Channel Level Translating I^{2}C Bus/ SMBus Repeater	24-HVQFN	7434.00/6,000		
PCA9527DP,118	568-4770-1-ND	3-Channel Bidirectional Bus Extender ***NEW!***	10-TSSOP	2.17	1.75	1.58
PCA9527DP,118	568-4770-2-ND	3-Channel Bidirectional Bus Extender ***NEW!***	10-TSSOP	2362.50/2,500		
PCA9530D,118	568-1830-1-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	2.03	1.57	1.42
PCA9530D,118	568-1830-2-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	1955.00/2,500		
PCA9530DP,118	568-1831-1-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	2.03	1.57	1.42
PCA9530DP,118	568-1831-2-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	1955.00/2,500		
PCA9531BS,118	568-3368-1-ND	8-Bit I^{2}C LED Dimmer	16-HVQFN	2.58	1.99	1.81
PCA9531BS,118	568-3368-2-ND	8-Bit I^{2}C LED Dimmer	16-HVQFN	5748.00/6,000		
PCA9531D,112	568-3369-5-ND	8-Bit I^{2}C LED Dimmer	16-SOIC	2.28	1.85	1.66
PCA9531PW,112	568-3370-5-ND	8-Bit I^{2}C LED Dimmer	16-TSSOP	2.28	1.85	1.66
PCA9532BS,118	568-3371-1-ND	16-Bit I^{2}C LED Dimmer	24-HVQFN	3.01	2.33	2.11
PCA9532BS,118	568-3371-2-ND	16-Bit I^{2}C LED Dimmer	24-HVQFN	6708.00/6,000		
PCA9533D/01,112	568-3372-5-ND	4-Bit I^{2}C LED Dimmer	8-SOIC	1.79	1.45	1.31
PCA9533DP/01,118	568-3374-1-ND	4-Bit I^{2}C LED Dimmer	8-TSSOP	2.03	1.57	1.43
PCA9533DP/01,118	568-3374-2-ND	4-Bit I^{2}C LED Dimmer	8-TSSOP	1957.50/2,500		
PCA9534BS,118	568-1832-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.96	1.52	1.38
PCA9534BS,118	568-1832-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	4368.00/6,000		
PCA9534D,118	568-1833-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	1.96	1.52	1.38
PCA9534D,118	568-1833-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	812.00/1,000		
PCA9534PW,118	568-1834-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1.96	1.52	1.38
PCA9534PW,118	568-1834-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1890.00/2,500		
PCA9535BS,118	568-3376-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	2.80	2.16	1.96
PCA9535BS,118	568-3376-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	6240.00/6,000		
PCA9535D,112	568-3377-5-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	2.48	2.00	1.80
PCA9535PW,112	568-1041-5-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	2.48	2.00	1.80
PCA9536D,118	568-1835-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1.52	1.20	1.08
PCA9536D,118	568-1835-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1400.00/2,500		
PCA9536DP,118	568-1836-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1.52	1.20	1.08
PCA9536DP,118	568-1836-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1400.00/2,500		
PCA9536TK,118	568-4079-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-HVSON	1.52	1.20	1.08

NXP Digi-Reel® (Cont.) DATA TRANSMISSION

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9536TK,118	568-4079-2-ND	4-Bit I^2C/SMBus I/O Port	8-HVSON	3192.00/6,000		
PCA9537DP,118	568-1837-1-ND	4-Bit I^2C/SMBus I/O Port	10-TSSOP	1.71	1.35	1.22
PCA9537DP,118	568-1837-2-ND	4-Bit I^2C/SMBus I/O Port	10-TSSOP	1575.00/2,500		
PCA9538BS,118	568-1838-1-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	2.10	1.62	1.47
PCA9538BS,118	568-1838-2-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	4680.00/6,000		
PCA9538PW,118	568-1840-1-ND	8-Bit I^2C/SMBus I/O Port	16-TSSOP	2.10	1.62	1.47
PCA9538PW,118	568-1840-2-ND	8-Bit I^2C/SMBus I/O Port	16-TSSOP	2025.00/2,500		
PCA9539BS,118	568-1841-1-ND	16-Bit I^2C/SMBus I/O Port	24-HVQFN	3.01	2.33	2.11
PCA9539BS,118	568-1841-2-ND	16-Bit I^2C/SMBus I/O Port	24-HVQFN	6708.00/6,000		
PCA9539D,118	568-1842-1-ND	16-Bit I^2C/SMBus I/O Port	24-SOIC	3.01	2.33	2.11
PCA9539D,118	568-1842-2-ND	16-Bit I^2C/SMBus I/O Port	24-SOIC	1247.00/1,000		
PCA9539PW,112	568-5025-ND	16-Bit I^2C/SMBus I/O Port ***NEW!***	24-TSSOP	2.67	2.15	1.94
PCA9539PW,118	568-1843-1-ND	16-Bit I^2C/SMBus I/O Port	24-TSSOP	3.01	2.33	2.11
PCA9539PW,118	568-1843-2-ND	16-Bit I^2C/SMBus I/O Port	24-TSSOP	2902.50/2,500		
PCA9540BD,112	568-1042-5-ND	2-Channel I^2C Multiplexer	8-SOIC	1.58	1.26	1.11
PCA9540BD,118	568-1844-1-ND	2-Channel I^2C Multiplexer	8-SOIC	1.71	1.35	1.22
PCA9540BD,118	568-1844-2-ND	2-Channel I^2C Multiplexer	8-SOIC	1575.00/2,500		
PCA9540BDP,118	568-1845-1-ND	2-Channel I^2C Multiplexer	8-TSSOP	1.71	1.35	1.22
PCA9540BDP,118	568-1845-2-ND	2-Channel I^2C Multiplexer	8-TSSOP	1575.00/2,500		
PCA9540BGD,125	568-4943-1-ND	2-Channel I^2C Multiplexer ***NEW!***	8-XSON	1.58	1.26	1.11
PCA9540BGD,125	568-4943-2-ND	2-Channel I^2C Multiplexer ***NEW!***	8-XSON	1890.00/3,000		
PCA9541APW/03,112	568-4937-5-ND	2-to-1 I^2C Master Selector ***NEW!***	16-TSSOP	2.45	1.98	1.78
PCA9541APW/01,112	568-4938-5-ND	2-to-1 I^2C Master Selector ***NEW!***	16-TSSOP	2.45	1.98	1.78
PCA9541AD/03,112	568-4939-5-ND	2-to-1 I^2C Master Selector ***NEW!***	16-SOIC	2.45	1.98	1.78
PCA9541AD/01,112	568-4940-5-ND	2-to-1 I^2C Master Selector ***NEW!***	16-SOIC	2.45	1.98	1.78
PCA9541ABS/03,118	568-4941-1-ND	2-to-1 I^2C Master Selector ***NEW!***	16-HVQFN	2.45	1.98	1.78
PCA9541ABS/03,118	568-4941-2-ND	2-to-1 I^2C Master Selector ***NEW!***	16-HVQFN	6162.00/6,000		
PCA9541ABS/01,118	568-4942-1-ND	2-to-1 I^2C Master Selector ***NEW!***	16-HVQFN	2.45	1.98	1.78
PCA9541ABS/01,118	568-4942-2-ND	2-to-1 I^2C Master Selector ***NEW!***	16-HVQFN	6162.00/6,000		
PCA9541BS/01,118	568-1846-1-ND	2-to-1 I^2C Master Selector	16-HVQFN	2.76	2.14	1.94
PCA9541BS/01,118	568-1846-2-ND	2-to-1 I^2C Master Selector	16-HVQFN	6156.00/6,000		
PCA9541BS/03,118	568-1848-1-ND	2-to-1 I^2C Master Selector	16-HVQFN	2.76	2.14	1.94
PCA9541BS/03,118	568-1848-2-ND	2-to-1 I^2C Master Selector	16-HVQFN	6156.00/6,000		
PCA9541D/01,118	568-1849-1-ND	2-to-1 I^2C Master Selector	16-SOIC	2.25	1.74	1.58
PCA9541D/03,118	568-1851-1-ND	2-to-1 I^2C Master Selector	16-SOIC	2.76	2.14	1.94
PCA9541D/03,118	568-1851-2-ND	2-to-1 I^2C Master Selector	16-SOIC	2665.00/2,500		
PCA9541PW/01,112	568-1043-5-ND	2-to-1 I^2C Master Selector	16-TSSOP	2.00	1.62	1.45
PCA9541PW/01,118	568-1852-1-ND	2-to-1 I^2C Master Selector	16-TSSOP	2.76	2.14	1.94
PCA9541PW/01,118	568-1852-2-ND	2-to-1 I^2C Master Selector	16-TSSOP	2665.00/2,500		
PCA9541PW/03,112	568-1044-5-ND	2-to-1 I^2C Master Selector	16-TSSOP	2.45	1.98	1.78
PCA9541PW/03,118	568-1854-1-ND	2-to-1 I^2C Master Selector	16-TSSOP	2.76	2.14	1.94
PCA9541PW/03,118	568-1854-2-ND	2-to-1 I^2C Master Selector	16-TSSOP	2665.00/2,500		
PCA9542AD,118	568-1855-1-ND	2-Channel I^2C Multiplexer	14-SOIC	2.00	1.54	1.40
PCA9542AD,118	568-1855-2-ND	2-Channel I^2C Multiplexer	14-SOIC	1925.00/2,500		
PCA9542APW,118	568-1856-1-ND	2-Channel I^2C Multiplexer	14-TSSOP	2.00	1.54	1.40
PCA9542APW,118	568-1856-2-ND	2-Channel I^2C Multiplexer	14-TSSOP	1925.00/2,500		
PCA9543AD,118	568-1857-1-ND	2-Channel I^2C Switch	14-SOIC	2.00	1.54	1.40
PCA9543AD,118	568-1857-2-ND	2-Channel I^2C Switch	14-SOIC	1925.00/2,500		
PCA9543APW,118	568-1858-1-ND	2-Channel I^2C Switch	14-TSSOP	2.00	1.54	1.40
PCA9543APW,118	568-1858-2-ND	2-Channel I^2C Switch	14-TSSOP	1925.00/2,500		
PCA9544ABS,118	568-1859-1-ND	4-Channel I^2C Mux	20-HVQFN	2.42	1.87	1.70
PCA9544ABS,118	568-1859-2-ND	4-Channel I^2C Mux	20-HVQFN	5382.00/6,000		
PCA9544AD,118	568-1860-1-ND	4-Channel I^2C Mux	20-SOIC	2.42	1.87	1.70
PCA9544AD,118	568-1860-2-ND	4-Channel I^2C Mux	20-SOIC	1864.00/2,000		
PCA9544APW,112	568-1045-5-ND	4-Channel I^2C Mux	20-TSSOP	2.14	1.73	1.56
PCA9544APW,118	568-1861-1-ND	4-Channel I^2C Mux	20-TSSOP	2.42	1.87	1.70
PCA9544APW,118	568-1861-2-ND	4-Channel I^2C Mux	20-TSSOP	2330.00/2,500		
PCA9544APW/G-T	568-1862-1-ND	4-Channel I^2C Mux	20-TSSOP	2.12	1.64	1.49
PCA9545ABS,118	568-1863-1-ND	4-Channel I^2C Switch	20-HVQFN	2.42	1.87	1.70
PCA9545ABS,118	568-1863-2-ND	4-Channel I^2C Switch	20-HVQFN	5382.00/6,000		
PCA9545AD,118	568-1864-1-ND	4-Channel I^2C Switch	20-SOIC	2.42	1.87	1.70
PCA9545AD,118	568-1864-2-ND	4-Channel I^2C Switch	20-SOIC	1864.00/2,000		
PCA9545APW,118	568-1865-1-ND	4-Channel I^2C Switch	20-TSSOP	2.42	1.87	1.70
PCA9545APW,118	568-1865-2-ND	4-Channel I^2C Switch	20-TSSOP	2330.00/2,500		
PCA9545BPW,118	568-4246-1-ND	4-Ch. I^2C Bus Switch with Interrupt Logic and Reset	20-TSSOP	2.42	1.87	1.70
PCA9545BPW,118	568-4246-2-ND	4-Ch. I^2C Bus Switch with Interrupt Logic and Reset	20-TSSOP	2330.00/2,500		
PCA9545CPW,118	568-4247-1-ND	4-Ch. I^2C Bus Switch with Interrupt Logic and Reset	20-TSSOP	1.97	1.53	1.38
PCA9546ABS,118	568-3378-1-ND	4-Channel I^2C Switch with Reset	16-HVQFN	2.21	1.71	1.55
PCA9546ABS,118	568-3378-2-ND	4-Channel I^2C Switch with Reset	16-HVQFN	4914.00/6,000		
PCA9546AD,118	568-2022-1-ND	4-Channel I^2C Switch with Reset	16-SOIC	2.21	1.71	1.55
PCA9546AD,118	568-2022-2-ND	4-Channel I^2C Switch with Reset	16-SOIC	2127.50/2,500		
PCA9546APW,112	568-5026-ND	4-Channel I^2C Switch ***NEW!***	16-TSSOP	1.95	1.58	1.42
PCA9546APW,118	568-2023-1-ND	4-Channel I^2C Switch with Reset	16-TSSOP	2.21	1.71	1.55
PCA9546APW,118	568-2023-2-ND	4-Channel I^2C Switch with Reset	16-TSSOP	2127.50/2,500		
PCA9547BS,118	568-3379-1-ND	8-Channel I^2C Mux	24-HVQFN	2.80	2.16	1.96
PCA9547BS,118	568-3379-2-ND	8-Channel I^2C Mux	24-HVQFN	6240.00/6,000		
PCA9547D,112	568-3380-5-ND	8-Channel I^2C Mux	24-SOIC	2.48	2.00	1.80
PCA9547PW,112	568-3381-5-ND	8-Channel I^2C Mux	24-TSSOP	2.48	2.00	1.80
PCA9548ABS,118	568-3382-1-ND	8-Channel I^2C Switch	24-HVQFN	2.80	2.16	1.96
PCA9548ABS,118	568-3382-2-ND	8-Channel I^2C Switch	24-HVQFN	6240.00/6,000		
PCA9548AD,112	568-3383-5-ND	8-Channel I^2C Switch	24-SOIC	2.48	2.00	1.80
PCA9548APW,112	568-3384-5-ND	8-Channel I^2C Switch	24-TSSOP	2.48	2.00	1.80
PCA9549D,112	568-3385-5-ND	Octal Bus Switch	24-SOIC	.71	.57	.50
PCA9549D,118	568-4218-1-ND	Octal Bus Switch	24-SOIC	.77	.62	.55
PCA9549PW,112	568-3386-5-ND	Octal Bus Switch	24-TSSOP	.88	.70	.62
PCA9554ABS,118	568-3394-1-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	2.10	1.62	1.47
PCA9554ABS,118	568-3394-2-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	4680.00/6,000		
PCA9554AD,112	568-1051-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SOIC	1.86	1.50	1.35
PCA9554ADB,118	568-4516-1-ND	8-Bit I^2C/SMBus I/O Port	16-SSOP	2.10	1.62	1.47
PCA9554ADB,118	568-4516-2-ND	8-Bit I^2C/SMBus I/O Port	16-SSOP	1620.00/2,000		
PCA9554APW,112	568-1052-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	1.86	1.50	1.35
PCA9554ATS,118	568-2024-1-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	20-SSOP	2.10	1.62	1.47
PCA9554ATS,118	568-2024-2-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	20-SSOP	2025.00/2,500		
PCA9554BS,118	568-3397-1-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	2.10	1.62	1.47
PCA9554BS,118	568-3397-2-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	4680.00/6,000		
PCA9554D,112	568-1053-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SOIC	1.86	1.50	1.35
PCA9554DB,112	568-1054-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SSOP	1.86	1.50	1.35
PCA9554N,112	568-2025-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-Dip	2.02	1.63	1.47
PCA9554PW,112	568-3984-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	1.86	1.50	1.35
PCA9554PW,118	568-1055-1-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	2.10	1.62	1.47
PCA9554PW,118	568-1055-2-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	2025.00/2,500		
PCA9555BS,118	568-2382-1-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-HVQFN	2.80	2.16	1.96
PCA9555BS,118	568-2382-2-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-HVQFN	6240.00/6,000		
PCA9555D,112	568-1056-5-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-SOIC	2.48	2.00	1.80
PCA9555DB,118	568-1057-1-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-SSOP	2.80	2.16	1.96
PCA9555DB,118	568-1057-2-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-SSOP	1160.00/1,000		
PCA9555N,112	568-2027-5-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-Dip	2.64	2.13	1.92
PCA9555PW,112	568-3986-5-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-TSSOP	2.48	2.00	1.80
PCA9555PW,118	568-1058-1-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-TSSOP	2.80	2.16	1.96
PCA9555PW,118	568-1058-2-ND	16-Bit I^2C/SMBus I/O Port with Interrupt	24-TSSOP	2700.00/2,500		
PCA9555DB,112	568-5027-ND	16-Bit I^2C/SMBus I/O Port ***NEW!***	24-SSOP	2.48	2.00	1.80
PCA9556PW,112	568-1059-5-ND	Octal SMBus/I^2C Registered Interface	16-TSSOP	2.54	2.05	1.85
PCA9557BS,118	568-3398-1-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	1.84	1.43	1.29
PCA9557BS,118	568-3398-2-ND	8-Bit I^2C/SMBus I/O Port	16-HVQFN	4104.00/6,000		
PCA9557D,112	568-1060-5-ND	8-Bit I^2C/SMBus I/O Port with Reset	16-SOIC	1.63	1.32	1.19
PCA9557PW,112	568-5028-ND	8-Bit I^2C/SMBus I/O Port ***NEW!***	16-TSSOP	1.63	1.32	1.19
PCA9557PW,118	568-1061-1-ND	8-Bit I^2C/SMBus I/O Port with Reset	16-TSSOP	1.84	1.43	1.29
PCA9557PW,118	568-1061-2-ND	8-Bit I^2C/SMBus I/O Port with Reset	16-TSSOP	1777.50/2,500		
PCA9558PW,112	568-3399-5-ND	8-Bit I^2C/SMBus I/O Port	28-TSSOP	1.55	1.25	1.13
PCA9559PW,112	568-3400-5-ND	6-Bit I^2C EEPROM Dip Switch	20-TSSOP	1.40	1.12	.98
PCA9561PW,112	568-3404-5-ND	Quad 6-Bit Mux I^2C EEPROM Dip Switch	20-TSSOP	1.40	1.12	.98
PCA9564BS,118	568-3405-1-ND	Parallel Bus to I^2C Bus Controller	20-HVQFN	2.57	1.99	1.80
PCA9564D,112	568-1062-5-ND	Parallel Bus to I^2C Bus Controller	20-SOIC	2.79	2.25	2.03
PCA9564N,112	568-2028-5-ND	Parallel Bus to I^2C Bus Controller	20-Dip	2.28	1.84	1.66
PCA9564PW,112	568-1063-5-ND	Parallel Bus to I^2C Bus Controller	20-TSSOP	2.79	2.25	2.03
PCA9574HR,115	568-4936-1-ND	8-Bit I^2C Bus/SMBus I/O Expander ***NEW!***	16-HXQFN	1.95	1.58	1.42
PCA9574HR,115	568-4936-2-ND	8-Bit I^2C Bus/SMBus I/O Expander ***NEW!***	16-HXQFN	3404.00/4,000		
PCA9575HF,118	568-4771-1-ND	16-Bit I^2C Bus I/O Expander ***NEW!***	24-HWQFN	2.33	1.88	1.69
PCA9575HF,118	568-4771-2-ND	16-Bit I^2C Bus I/O Expander ***NEW!***	24-HWQFN	5850.00/6,000		
PCA9600DP,118	568-4716-1-ND	Dual Bidirectional Bus Buffer ***NEW!***	8-TSSOP	3.90	3.19	2.86
PCA9600DP,118	568-4716-2-ND	Dual Bidirectional Bus Buffer ***NEW!***	8-TSSOP	4322.50/2,500		
PCA9665D,118	568-4068-1-ND	Fm+ Parallel Bus to I^2C Bus Cont.	20-SOIC	3.00	2.45	2.20
PCA9665D,118	568-4068-2-ND	Fm+ Parallel Bus to I^2C Bus Cont.	20-SOIC	2660.00/2,000		
PCA9665N,112	568-4069-5-ND	Fm+ Parallel Bus to I^2C Bus Cont.	20-Dip	2.92	2.35	2.14
PCA9665PW,118	568-4070-1-ND	Fm+ Parallel Bus to I^2C Bus Cont.	20-TSSOP	3.00	2.45	2.20
PCA9665PW,118	568-4070-2-ND	Fm+ Parallel Bus to I^2C Bus Cont.	20-TSSOP	3325.00/2,500		
PCA9670D,518	568-4188-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.10	1.62	1.47
PCA9670D,518	568-4188-2-ND	Remote 8-Bit I/O Expander	16-SOIC	870.00/1,000		
PCA9670PW,112	568-4189-5-ND	Remote 8-Bit I/O Expander	16-TSSOP	1.86	1.50	1.35
PCA9671D,118	568-4192-1-ND	Remote 16-Bit I/O Expander	24-SOIC	3.01	2.33	2.11
PCA9671D,118	568-4192-2-ND	Remote 16-Bit I/O Expander	24-SOIC	1247.00/1,000		
PCA9671DB,112	568-4190-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.18	1.76	1.58
PCA9671DK,118	568-4191-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.46	1.90	1.72
PCA9671PW,112	568-4193-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.18	1.76	1.58
PCA9672D,518	568-4195-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.10	1.62	1.47
PCA9672D,518	568-4195-2-ND	Remote 8-Bit I/O Expander	16-SOIC	870.00/1,000		
PCA9672PW,112	568-4196-5-ND	Remote 8-Bit I/O Expander	16-TSSOP	1.86	1.50	1.35
PCA9673D,118	568-4199-1-ND	Remote 16-Bit I/O Expander	24-SOIC	2.46	1.90	1.72
PCA9673DB,112	568-4197-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.18	1.76	1.58
PCA9673DK,118	568-4198-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.46	1.90	1.72
PCA9673PW,112	568-4200-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.18	1.76	1.58
PCA9674ABS,118	568-4221-1-ND	Remote 8-Bit I/O Expander	16-HVQFN	2.10	1.62	1.47
PCA9674ABS,118	568-4221-2-ND	Remote 8-Bit I/O Expander	16-HVQFN	4680.00/6,000		
PCA9674AD,518	568-4071-1-ND	Remote 8-Bit I/O Expander	16-SOIC	1.71	1.33	1.20
PCA9674AN,112	568-4072-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.52	1.23	1.11
PCA9674APW,118	568-4073-1-ND	Remote 8-Bit I/O Expander	16-TSSOP	1.71	1.33	1.20
PCA9674ATS,118	568-4074-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.71	1.33	1.20
PCA9674BS,118	568-4222-1-ND	Remote 8-Bit I/O Expander	16-HVQFN	1.71	1.33	1.20
PCA9674D,518	568-4075-1-ND	Remote 8-Bit I/O Expander	16-SOIC	1.71	1.33	1.20
PCA9674N,112	568-4076-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.52	1.23	1.11
PCA9674PW,118	568-4077-1-ND	Remote 8-Bit I/O Expander	16-TSSOP	2.10	1.62	1.47
PCA9674PW,118	568-4077-2-ND	Remote 8-Bit I/O Expander	16-TSSOP	2025.00/2,500		
PCA9675BS,118	568-4201-1-ND	Remote 16-Bit I/O Expander	24-HVQFN	2.40	1.92	1.44
PCA9675BS,118	568-4201-2-ND	Remote 16-Bit I/O Expander	24-HVQFN	6090.00/6,000		
PCA9675D,118	568-4204-1-ND	Remote 16-Bit I/O Expander	24-SOIC	2.46	1.90	1.72
PCA9675DB,112	568-4202-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.18	1.76	1.58
PCA9675DK,118	568-4203-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.46	1.90	1.72
PCA9675PW,112	568-4248-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.67	2.15	1.94
PCA9698BS,118	568-3240-1-ND	40-Bit I^2C Bus Advanced I/O Port	56-HVQFN	5.40	4.41	3.96
PCA9698BS,118	568-3240-2-ND	40-Bit I^2C Bus Advanced I/O Port	56-HVQFN	4788.00/2,000		
PCA9698DGG,512	568-3241-5-ND	40-Bit I^2C Bus Advanced I/O Port	56-TSSOP	4.76	3.83	3.49
PCA9701D,118	568-4289-1-ND	18V Tolerant SPI 16-Bit GPI	24-SOIC	2.95	2.28	2.07
PCA9701D,118	568-4289-2-ND	18V Tolerant SPI 16-Bit GPI	24-SOIC	870.00/1,000		
PCA9701HF,118	568-5061-1-ND	18V Tolerant SPI 16-Bit GPI ***NEW!***	24-HWQFN	1.86	1.50	1.35
PCA9701HF,118	568-5061-2-ND	18V Tolerant SPI 16-Bit GPI ***NEW!***	24-HWQFN	4680.00/6,000		
PCA9701PW,118	568-4290-1-ND	18V Tolerant SPI 16-Bit GPI	24-TSSOP	2.95	2.28	2.07
PCA9701PW,118	568-4290-2-ND	18V Tolerant SPI 16-Bit GPI	24-TSSOP	2025.00/2,500		
PCA9703PW,112	568-5052-5-ND	18V Tolerant SPI 16-Bit GPI ***NEW!***	24-TSSOP	2.61	2.11	1.90
PCF8574AP,112	568-1073-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.95	1.58	1.42
PCF8574AT/3,512	568-3987-5-ND	Remote 8-Bit I/O Expander	16-SOIC	1.95	1.58	1.42
PCF8574AT/3,518	568-1074-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.21	1.71	1.55
PCF8574AT/3,518	568-1074-2-ND	Remote 8-Bit I/O Expander	16-SOIC	914.00/1,000		
PCF8574ATS/3,118	568-2030-1-ND	Remote 8-Bit I/O Expander	20-SSOP	2.21	1.71	1.55
PCF8574ATS/3,118	568-2030-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2127.50/2,500		
PCF8574P,112	568-1075-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.95	1.58	1.42
PCF8574T/3,512	568-1076-5-ND	Remote 8-Bit I/O Expander	16-SOIC	1.95	1.58	1.42
PCF8574T/3,518	568-1077-1-ND	Remote 8-Bit I/O Expander	20-SSOP	2.21	1.71	1.55
PCF8574T/3,518	568-1077-2-ND	Remote 8-Bit I/O Expander	20-SSOP	914.00/1,000		

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(Continued)

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCF8574TS/3,112	568-3988-5-ND	Remote 8-Bit I/O Expander	20-SSOP	1.95	1.58	1.42
PCF8574TS/3,118	568-1078-1-ND	Remote 8-Bit I/O Expander	20-SSOP	2.21	1.71	1.55
PCF8574TS/3,118	568-1078-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2127.50/2,500		
PCF8575CTS/1,112	568-3528-5-ND	16-Bit I/O Expander for I^{2}C Bus	24-SSOP	2.80	2.25	2.05
PCF8575TS/1,112	568-3989-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.73	2.20	1.98
PCF8575TS/1,118	568-1079-1-ND	Remote 16-Bit I/O Expander	24-SSOP	3.08	2.38	2.16
PCF8575TS/1,118	568-1079-2-ND	Remote 16-Bit I/O Expander	24-SSOP	1276.00/1,000		
PCF8582C-2P/03,112	568-3531-5-ND	8-Bit CMOS EEPROM	8-Dip	1.54	1.24	1.08
PCF8584P,112	568-3532-5-ND	I^{2}C Bus Controller	20-Dip	4.73	3.81	3.47
PCF8584T/2,512	568-3990-5-ND	I^{2}C Bus Controller	20-SOIC	4.73	3.81	3.47
PCF8594C-2T/02,112	568-3638-5-ND	CMOS EEPROM, I^{2}C Bus Interface	8-SOIC	1.40	1.12	.98
PCF8594C-2P/02,112	568-3639-5-ND	CMOS EEPROM, I^{2}C Bus Interface	8-Dip	1.40	1.12	.98
PCF8598C-2T/02,112	568-3640-5-ND	CMOS EEPROM, I^{2}C Bus Interface	8-SOIC	1.55	1.25	1.13
PCF8598C-2P/02,112	568-3641-5-ND	CMOS EEPROM, I^{2}C Bus Interface	8-Dip	1.71	1.38	1.24
SC18IS600IBS,151	568-4709-ND	SPI to I^{2}C Bus Interface ***NEW!***	24-HVQFN	2.79	2.25	2.03
SC18IS600IPW,112	568-3232-5-ND	SPI to I^{2}C Bus Interface	16-TSSOP	2.80	2.25	2.05
SC18IS601IBS,151	568-4710-ND	SPI to I^{2}C Bus Interface ***NEW!***	24-HVQFN	2.79	2.25	2.03
SC18IS601IPW,112	568-3233-5-ND	SPI to I^{2}C Bus Interface	16-TSSOP	2.80	2.25	2.05
SC18IS603IPW,112	568-4211-ND	I^{2}C Bus to SPI Bridge	16-TSSOP	2.80	2.25	2.05
SC18IS602BIPW,112	568-4785-5-ND	I^{2}C Bus to SPI Bridge ***NEW!***	16-TSSOP	2.80	2.25	2.05
OM6271,598	568-3511-ND	Demo Board SPI to I^{2}C	—	59.50	—	—
OM6272,598	568-3512-ND	Demo Board UART to I^{2}C	—	59.50	—	—
OM6275,598	568-3615-ND	Demo Board I^{2}C	—	41.63	—	—
LVDS						
PTN3300AHF,518	568-4412-1-ND	DVI/HDMI Level Shifter	48-HWQFN	1.82	1.44	1.30
PTN3300AHF,518	568-4412-2-ND	DVI/HDMI Level Shifter	48-HWQFN	2688.00/4,000		
PTN3300BHF,518	568-4413-1-ND	DVI/HDMI Level Shifter	48-HWQFN	1.82	1.44	1.30
PTN3310D,112	568-1093-5-ND	LVDS-PECL HS Serial Logic Translator	8-SOIC	3.28	2.64	2.41
PTN3310DP,118	568-3568-1-ND	LVDS-PECL HS Serial Logic Translator	8-TSSOP	4.01	3.28	2.95
PTN3310DP,118	568-3568-2-ND	LVDS-PECL HS Serial Logic Translator	8-TSSOP	4445.00/2,500		
PTN3360ABS,518	568-4776-1-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	1.16	.93	.81
PTN3360ABS,518	568-4776-2-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	1848.00/4,000		
PTN3360BBS,518	568-4777-1-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	1.16	.93	.81
PTN3360BBS,518	568-4777-2-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	1848.00/4,000		
PTN3361BBS,518	568-5057-1-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	1.40	1.12	.98
PTN3361BBS,518	568-5057-2-ND	HDMI/DVI Level Shifter ***NEW!***	48-HVQFN	2240.00/4,000		
PTN3380BBS,518	568-5056-1-ND	DVI Level Shifter ***NEW!***	48-HVQFN	1.55	1.25	1.13
PTN3380BBS,518	568-5056-2-ND	DVI Level Shifter ***NEW!***	48-HVQFN	2700.00/4,000		
RS232/422/485						
MC145406N,602	568-1194-5-ND	EIA-232-D/.28 Driver/Receiver	16-Dip	1.23	.98	.86
Switches						
CBT3257APW,112	568-3061-5-ND	Quad 1-of-2 Mux/Demux	16-TSSOP	.45	.30	.25
CBTD16210DGG,518	568-3063-1-ND	20-Bit Level Shifting Bus Switch	48-TSSOP	1.60	1.26	1.14
CBTD16210DGG,518	568-3063-2-ND	20-Bit Level Shifting Bus Switch	48-TSSOP	1176.00/2,000		
NX3L1G53GM,125	568-4758-1-ND	SPDT Analog Switch ***NEW!***	8-XQFN	.88	.68	.60
NX3L1G53GM,125	568-4758-2-ND	SPDT Analog Switch ***NEW!***	8-XQFN	1160.00/4,000		
NX3L1G53GT,115	568-4644-1-ND	SPDT Analog Switch	8-XSON	.88	.68	.60
NX3L1G53GT,115	568-4644-2-ND	SPDT Analog Switch	8-XSON	1350.00/5,000		
NX3L1G66GM,115	568-4654-1-ND	Low Voltage Analog Switch	6-XSON	.88	.68	.60
NX3L1G66GM,115	568-4654-2-ND	Low Voltage Analog Switch	6-XSON	1350.00/5,000		
NX3L1G384GM,132	568-4757-1-ND	SPST Analog Switch ***NEW!***	6-XSON	.60	.47	.41
NX3L1G384GM,132	568-4757-2-ND	SPST Analog Switch ***NEW!***	6-XSON	1015.00/5,000		
NX3L1G3157GM,115	568-4653-1-ND	SPDT Analog Switch	6-XSON	.75	.58	.51
NX3L1G3157GM,115	568-4653-2-ND	SPDT Analog Switch	6-XSON	1150.00/5,000		
NX3L1T3157GM,115	568-4655-1-ND	SPDT Switch	6-XSON	.88	.68	.60
NX3L1T3157GM,115	568-4655-2-ND	SPDT Switch	6-XSON	1350.00/5,000		
NX3L2G66GT,115	568-4656-1-ND	Low Voltage Analog Switch	8-XSON	.79	.61	.54
NX3L2G66GT,115	568-4656-2-ND	Low Voltage Analog Switch	8-XSON	1210.00/5,000		
NX3V1G66GM,115	568-4645-1-ND	SPST Analog Switch	6-XSON	.79	.62	.54
NX3V1G66GM,115	568-4645-2-ND	SPST Analog Switch	6-XSON	1215.00/5,000		
NX3V1G66GM,132	568-4759-1-ND	SPST Analog Switch ***NEW!***	6-XSON	.72	.56	.49
NX3V1G66GM,132	568-4759-2-ND	SPST Analog Switch ***NEW!***	6-XSON	1215.00/5,000		
NX3V1G66GW,125	568-4760-1-ND	SPST Analog Switch ***NEW!***	5-TSSOP	.66	.51	.45
NX3V1G66GW,125	568-4760-2-ND	SPST Analog Switch ***NEW!***	5-TSSOP	654.00/3,000		
NX3V1T66GM,115	568-4646-1-ND	Low Voltage Analog Switch	6-XSON	.97	.75	.66
NX3V1T66GM,115	568-4646-2-ND	Low Voltage Analog Switch	6-XSON	1485.00/5,000		
NX3V1T66GM,132	568-4761-1-ND	SPST Analog Switch ***NEW!***	6-XSON	.97	.75	.66
NX3V1T66GM,132	568-4761-2-ND	SPST Analog Switch ***NEW!***	6-XSON	1485.00/5,000		
NX5DV330D,112	568-4762-5-ND	1-of-2 Video Mux/Demux ***NEW!***	16-SOIC	.80	.62	.54
NX5DV330DS,112	568-4763-5-ND	1-of-2 Video Mux/Demux ***NEW!***	16-SSOP	.80	.62	.54
NX5DV330PW,112	568-4764-5-ND	1-of-2 Video Mux/Demux ***NEW!***	16-TSSOP	.80	.62	.54
PCA9549BS,118	568-3637-1-ND	Octal Bus Switch	24-HVQFN	1.24	.98	.88
PCF8883T/1,118	568-4933-1-ND	Capacitive Proximity Switch ***NEW!***	8-SOIC	2.48	2.00	1.80
PCF8883T/1,118	568-4933-2-ND	Capacitive Proximity Switch ***NEW!***	8-SOIC	2700.00/2,500		
PIP401,118	568-2326-1-ND	OR-ing Intelligent Switch	D2-PAK	6.88	5.72	5.20
SA630D/01,112	568-1206-5-ND	SPDT Switch	8-SOIC	6.02	4.84	4.41
UARTs						
SC16C550BIA44,518	568-2039-1-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	3.16	2.58	2.32
SC16C550BIA44,518	568-2039-2-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	873.50/500		
SC16C550BIB48,151	568-2040-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	48-LQFP	2.95	2.37	2.16
SC16C554BIB64,151	568-2041-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	64-LQFP	10.50	8.61	7.77
SC16C554BIB80,528	568-2042-1-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	11.13	9.24	8.40
SC16C554BIB80,528	568-2042-2-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	5670.00/1,000		
SC16C554BIBM,151	568-3267-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	64-LQFP	10.50	8.61	7.77
SC16C554BIBS,551	568-3268-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	48-HVQFN	9.97	8.18	7.39
SC16C554DBIA68,529	568-3269-5-ND	Quad UART with 16-Byte FIFO/ Infrared Encoder/Decoder	68-PLCC	11.03	9.05	8.16
SC16C554DBIB64,151	568-3270-ND	Quad UART with 16-Byte FIFO/ Infrared Encoder/Decoder	64-LQFP	11.03	9.05	8.16
SC16C650BIA44,518	568-2043-1-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	44-PLCC	5.17	4.22	3.79
SC16C650BIB48,151	568-2044-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	48-LQFP	5.89	4.74	4.32
SC16C650BIBS,151	568-3275-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	32-HVQFN	5.31	4.27	3.89
SC16C652BIB48,151	568-3276-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 32-Byte FIFO	48-LQFP	6.82	5.59	5.05
SC16C654BIA68,518	568-2047-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	11.82	9.69	8.75
SC16C654BIBM,151	568-3278-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max with 64-Byte FIFO	64-LQFP	11.55	9.48	8.55
SC16C654BIBS,551	568-3279-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max with 64-Byte FIFO	48-HVQFN	11.55	9.48	8.55
SC16C654DBIB64,151	568-2048-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	64-LQFP	11.82	9.69	8.75
SC16C850SVIBS,151	568-4707-ND	1.8V Single UART, 20Mbit max., with 128-byte FIFO ***NEW!***	32-HVQFN	4.26	3.42	3.12
SC16C852SVIET,151	568-4708-ND	1.8V Dual UART, 20Mbit max., with 128-byte FIFO ***NEW!***	36-TFBGA	6.30	5.17	4.67
SC16IS740IPW,112	568-3648-5-ND	Single UART with I^{2}C-Bus/SPI Interface	16-TSSOP	3.07	2.48	2.23
SC16C750BIA44,518	568-2049-1-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	6.60	5.39	4.84
SC16C750BIA44,518	568-2049-2-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	1826.00/500		
SC16C750BIB64,151	568-3284-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	64-LQFP	6.16	4.95	4.51
SC16C750BIBS,151	568-3285-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	32-HVQFN	5.60	4.50	4.10
SC16C752BIB48,157	568-1322-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	48-LQFP	6.45	5.19	4.73
SC16C752BIBS,151	568-3288-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	32-HVQFN	5.84	4.69	4.28
SC16C754BIA68,518	568-2050-1-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	12.52	10.40	9.46
SC16C754BIA68,518	568-2050-2-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	2008.75/250		
SC16C754BIB80,557	568-1207-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	80-LQFP	11.82	9.69	8.75
SC16C754BIBM,151	568-3290-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	64-LQFP	11.82	9.69	8.75
SC16C850IBS,151	568-4778-ND	3.3V Single UART, 5Mbit max. ***NEW!***	32-HVQFN	4.26	3.42	3.12
SC16C850LIBS,151	568-4206-ND	1.8V Single UART, 5Mbit max.	32-HVQFN	4.24	3.42	3.11
SC16C850LIET,157	568-4020-ND	1.8V Single UART, 5Mbit max.	36-TFBGA	4.42	3.56	3.24
SC16C852LIB,151	568-4208-ND	1.8V Dual UART, 5Mbit max.	48-LQFP	6.45	5.19	4.73
SC16C852LIBS,151	568-4209-ND	1.8V Dual UART, 5Mbit max.	32-HVQFN	5.84	4.69	4.28
SC16C2550BIA44,518	568-2038-1-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	6.92	5.65	5.08
SC16C2550BIA44,518	568-2038-2-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	1913.50/500		
SC16C2550BIB48,151	568-3645-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	48-LQFP	6.45	5.19	4.73
SC16C2550BIBS,151	568-3259-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	32-HVQFN	5.89	4.74	4.32
SC16C2552BIA44,529	568-3646-5-ND	Dual UART with 16-Byte Transmit and Receive FIFO	44-PLCC	6.34	5.21	4.70
SC16IS750IBS,151	568-2234-ND	Single UART with I^{2}C Bus/SPI Interface	24-HVQFN	3.18	2.56	2.34
SC16IS752IBS,151	568-2236-ND	Dual UART with I^{2}C Bus/SPI Interface	32-HVQFN	4.27	3.44	3.13
SC16IS752IPW,112	568-4016-5-ND	Dual UART with I^{2}C Bus/SPI Interface	28-TSSOP	4.77	3.84	3.50
SC16IS760IBS,151	568-2238-ND	Single UART with I^{2}C Bus/SPI Interface	24-HVQFN	3.45	2.78	2.53
SC16IS760IPW,112	568-4185-ND	Single UART with I^{2}C Bus/SPI Interface	24-TSSOP	3.83	3.08	2.81
SC16IS750IPW,128	568-4523-1-ND	Single UART with I^{2}C Bus/SPI Interface	24-TSSOP	3.79	3.10	2.78
SC16IS750IPW,128	568-4523-2-ND	Single UART with I^{2}C Bus/SPI Interface	24-TSSOP	4200.00/2,500		
SC16IS762IBS,151	568-2240-ND	Dual UART with I^{2}C Bus/SPI Interface	32-HVQFN	5.60	4.50	4.10
SC16IS762IPW,112	568-4021-5-ND	Dual UART with I^{2}C Bus/SPI Interface	28-TSSOP	5.60	4.50	4.10
SC18IM700IPW,112	568-3231-5-ND	Master I^{2}C Bus Controller with UART Interface	16-TSSOP	2.80	2.25	2.05
SC26C92A1A,512	568-1112-5-ND	Dual Universal Async. Receiver/ Transmitter	44-PLCC	8.40	6.89	6.22
SC26C92C1A,512	568-1113-5-ND	Dual Universal Async. Receiver/ Transmitter	44-PLCC	7.50	6.15	5.55
SC26C92C1A,518	568-5047-1-ND	Dual Universal Async. Receiver/ Transmitter ***NEW!***	SOT-187-2	7.95	6.60	6.00
SC26C92C1A,518	568-5047-2-ND	Dual Universal Async. Receiver/ Transmitter ***NEW!***	SOT-187-2	2325.00/500		
SC26C92C1B,551	568-4711-5-ND	Dual Universal Async. Receiver/ Transmitter with FIFO ***NEW!***	44-QFP	7.50	6.15	5.55
SC26C92C1N,602	568-1208-5-ND	Dual Universal Async. Receiver/ Transmitter	40-Dip	7.88	6.46	5.83
SC28C94A1A,512	568-3993-5-ND	Quad Universal Async. Receiver/ Transmitter	52-PLCC	30.53	25.95	24.04
SC28C94A1A,518	568-1114-1-ND	Quad Universal Async. Receiver/ Transmitter	52-PLCC	30.53	27.48	25.19
SC28C94A1A,518	568-1114-2-ND	Quad Universal Async. Receiver/ Transmitter	52-PLCC	10493.50/500		
SC28L91A1A,529	568-3295-5-ND	3.3V or 5.0V UART	44-PLCC	7.87	6.46	5.83
SC28L91A1B,551	568-1187-ND	3.3V or 5.0V UART	44-PQFP	7.87	6.46	5.83
SC28L92A1A,529	568-1188-5-ND	3.3V or 5.0V Dual UART	44-PLCC	12.13	10.21	9.38
SC28L92A1B,557	568-1211-ND	3.3/5V Dual Universal Async. Receiver/Transmitter	44-PQFP	12.13	10.21	9.38
SC28L194A1BE,557	568-1209-ND	Quad UART for 3.3V/5V Supply Volt.	80-LQFP	26.25	22.32	20.68
SC28L198A1A,512	568-1117-5-ND	Octal UART for 3.3V/5V Supply Volt.	84-PLCC	38.85	33.60	31.50
SC28L198A1BE,557	568-1210-ND	Octal UART for 3.3V/5V Supply Volt.	100-LQFP	38.85	33.60	31.50
SC28L201A1DGG,112	568-3293-5-ND	3.3V, 5V UART, 3.125Mbit, with 256-Byte FIFO	48-TSSOP	7.75	6.36	5.74
SC68C752BIB48,151	568-3298-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	48-LQFP	6.55	5.38	4.85
SC68C752BIBS,151	568-3299-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	32-HVQFN	6.29	5.16	4.66
SCC2681AC1N40,112	568-3525-5-ND	Dual Async. Receiver/Transmitter	40-Dip	7.50	6.15	5.55
SCC2681AE1A44,529	568-3526-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	9.38	7.69	6.94
SCC2691AC1A28,602	568-1212-5-ND	Univ. Async. Receiver/ Transmitter	28-PLCC	5.64	4.63	4.18
SCC2691AC1D24,512	568-1118-5-ND	Univ. Async. Receiver/Transmitter	24-SOL	6.88	5.64	5.09
SCC2691AC1N24,602	568-1213-5-ND	Univ. Async. Receiver/Transmitter	24-Dip	6.75	5.54	5.00
SCC2691AE1N24,602	568-1215-5-ND	Univ. Async. Receiver/Transmitter	24-Dip	6.77	5.55	5.01

* *RoHS Compliant* ***★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★*** *(Continued)*

NXP Digi-Reel® (Cont.) DATA TRANSMISSION

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SCC2692AC1A44,512	568-1119-5-ND	Dual Universal Asynchronous Receiver/ Transmitter	44-PLCC	7.35	6.03	5.44
SCC2692AC1N40,602	568-1216-5-ND	Dual Universal Asynchronous Receiver/ Transmitter	40-Dip	7.35	6.03	5.44
SCC2692AE1A44,529	568-4712-5-ND	Dual Universal Async. Receiver/ Transmitter with FIFO ***NEW!***	44-PLCC	8.65	7.10	6.41
SCC2698BC1A84,512	568-1120-5-ND	Enhanced Octal Universal Async. Receiver/Transmitter	84-PLCC	39.79	33.83	31.34
SCC68681C1A44,512	568-5048-ND	Dual Async. Receiver/ Transmitter ***NEW!***	44-PLCC	6.88	5.64	5.09
SCC68681C1A44,529	568-3527-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	6.88	5.64	5.09
SCC68681C1N40,112	568-5049-5-ND	Dual Async. Receiver/ Transmitter ***NEW!***	40-Dip	7.50	6.15	5.55
SCC68692C1A44,512	568-1121-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	7.61	6.25	5.64
PCI Express						
PX1011B-EL1/N,551	568-4706-ND	High Performance, LP, Single Lane PHY ***NEW!***	81-LFBGA	13.20	11.10	10.20
PX1011B-EL1/G,551	568-4715-ND	High Performance, LP, Single Lane PHY ***NEW!***	81-LFBGA	11.00	9.25	8.50
Demo Boards						
OM6270,598	568-3510-ND	Demo Board SPI/ I²C to UART	—	99.20	—	—
OM6274,598	568-4705-ND	Demo Board I²C to SPI (SC18IS602) ***NEW!***	—	59.50	—	—
OM6290	568-4703-ND	Demo Board LCD Graphic Driver ***NEW!***	—	120.83	—	—
OM6293	568-4704-ND	Daughter Card PCA9600 for OM6275 ***NEW!***	—	12.66	—	—
OM11055	568-4958-ND	Eval. Board for PCF8883 ***NEW!***	—	30.00	25.50	23.63

NXP Digi-Reel® DIGITAL LOGIC

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ABT Family						
74ABT00D,112	568-2459-5-ND	Quad 2-Input NAND Gate	14-SOIC	.99	.77	.67
74ABT00DB,112	568-2460-5-ND	Quad 2-Input NAND Gate	14-SSOP	.91	.73	.64
74ABT00N,112	568-2461-5-ND	Quad 2-Input NAND Gate	14-Dip	.99	.77	.67
74ABT02D,112	568-2463-5-ND	Quad 2-Input NOR Gate	14-SOIC	.80	.63	.55
74ABT04D,112	568-1370-5-ND	Hex Inverter	14-SOIC	.80	.63	.55
74ABT04PW,112	568-2469-5-ND	Hex Inverter	14-TSSOP	1.00	.80	.70
74ABT08D,112	568-1371-5-ND	Quad 2-Input AND Gate	14-SOIC	.99	.77	.67
74ABT08PW,112	568-2472-5-ND	Quad 2-Input AND Gate	14-TSSOP	1.00	.80	.70
74ABT20PW,112	568-2479-5-ND	Dual 4-Input NAND Gate	14-TSSOP	.80	.63	.55
74ABT32D,112	568-2481-5-ND	Quad 2-Input OR Gate	14-SOIC	.99	.77	.67
74ABT32DB,112	568-2482-5-ND	Quad 2-Input OR Gate	14-SSOP	.74	.60	.52
74ABT32N,112	568-2483-5-ND	Quad 2-Input OR Gate	14-Dip	.99	.77	.67
74ABT74D,112	568-1376-5-ND	Dual D-Type Flip-Flop	14-SOIC	.85	.68	.60
74ABT125D,602	568-1372-5-ND	Tri-State Quad Buffer	14-SOIC	.89	.72	.63
74ABT125D,623	568-2279-1-ND	Tri-State Quad Buffer	14-SOIC	.97	.77	.69
74ABT125D,623	568-2279-2-ND	Tri-State Quad Buffer	14-SOIC	892.50/2,500		
74ABT126D,602	568-4535-5-ND	Tri-State Quad Buffer	14-SOIC	.46	.34	.30
74ABT240D,602	568-4537-5-ND	Tri-State Octal Inverting Buffer	20-SOIC	.60	.47	.41
74ABT244D,602	568-1373-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.41
74ABT244D,623	568-2280-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.75	.53	.45
74ABT244D,623	568-2280-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	420.00/2,000		
74ABT244DB,118	568-2281-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.75	.53	.45
74ABT244DB,118	568-2281-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	230.00/1,000		
74ABT244PW,118	568-4538-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.62	.44	.38
74ABT244PW,118	568-4538-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	437.50/2,500		
74ABT245D,602	568-1374-5-ND	Tri-State Octal Transceiver with Direction Pin	20-SOIC	.64	.48	.41
74ABT245PW,112	568-4539-5-ND	Tri-State Octal Transciever with Direction Pin	20-TSSOP	.65	.50	.44
74ABT273AD,118	568-4444-1-ND	Octal D-Type Flip-Flop	20-SOIC	.71	.55	.49
74ABT273AD,118	568-4444-2-ND	Octal D-Type Flip-Flop	20-SOIC	468.00/2,000		
74ABT373AD,118	568-4445-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.81	.57	.49
74ABT373AD,118	568-4445-2-ND	Tri-State Octal Transparent Latch	20-SOIC	456.00/2,000		
74ABT541D,602	568-1375-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.47	.41
74ABT541DB,118	568-4540-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.87	.68	.60
74ABT541DB,118	568-4540-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	473.00/1,000		
74ABT573AD,118	568-4446-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.70	.54	.48
74ABT573AD,118	568-4446-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	458.00/2,000		
74ABT544PW,112	568-2487-5-ND	Tri-State Octal Transceiver, Inverting	24-TSSOP	2.53	2.04	1.86
74ABT821PW,112	568-2495-5-ND	Tri-State 10-Bit D-Type Flip-Flop, Positive-Edge-Triggered	24-TSSOP	2.74	2.22	1.99
74ABT2245PW,112	568-2480-5-ND	Tri-State Octal Transceiver	20-TSSOP	1.51	1.21	1.06
74ABT16245BDL,112	568-4536-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.98	.79	.69
74ABT16273DL,112	568-2474-5-ND	16-Bit D-Type Flip-Flop	48-SSOP	2.97	2.40	2.16
AHC Family						
74AHC02PW,118	568-2258-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.50	.30	.24
74AHC02PW,118	568-2258-2-ND	Quad 2-Input NOR Gate	14-TSSOP	212.50/2,500		
74AHC14BQ,115	568-2498-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.89	.69	.61
74AHC14BQ,115	568-2498-2-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	879.00/3,000		
74AHC14D,118	568-4450-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.48	.28	.23
74AHC14D,118	568-4450-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	202.50/2,500		
74AHC14PW,118	568-4451-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.50	.30	.24
74AHC14PW,118	568-4451-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP	212.50/2,500		
74AHC30D,112	568-2507-5-ND	8-Input NAND Gate	14-SOIC	.48	.36	.31
74AHC30PW,112	568-2508-5-ND	8-Input NAND Gate	14-TSSOP	.48	.36	.31
74AHC32D,118	568-4455-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.28	.23
74AHC32D,118	568-4455-2-ND	Quad 2-Input OR Gate	14-SOIC	202.50/2,500		
74AHC32PW,118	568-4456-1-ND	Quad 2-Input OR Gate	14-TSSOP	.50	.30	.24
74AHC32PW,118	568-4456-2-ND	Quad 2-Input OR Gate	14-TSSOP	212.50/2,500		
74AHC74D,118	568-4458-1-ND	Dual D-Type F/F, Positive Edge Trigger	14-SOIC	.50	.30	.24
74AHC74D,118	568-4458-2-ND	Dual D-Type F/F, Positive Edge Trigger	14-SOIC	212.50/2,500		
74AHC86PW,118	568-4542-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.50	.30	.24
74AHC86PW,118	568-4542-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	225.00/2,500		
74AHC123APW,112	568-4447-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-TSSOP	.40	.27	.22
74AHC138D,118	568-4448-1-ND	3:8 Line Decoder/Demux	16-SOIC	.60	.36	.29
74AHC138D,118	568-4448-2-ND	3:8 Line Decoder/Demux	16-SOIC	257.50/2,500		
74AHC139PW,118	568-4449-1-ND	Dual 2:4 Line Decoder/Demux	16-TSSOP	.45	.30	.25
74AHC139PW,118	568-4449-2-ND	Dual 2:4 Line Decoder/Demux	16-TSSOP	255.00/2,500		

NXP Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74AHC245PW,112	568-4453-5-ND	Tri-St. Octal Bus Transceiver	20-TSSOP	.50	.34	.27
74AHC259D,112	568-2504-5-ND	8-Bit Addressable Latch	16-SOIC	.84	.66	.57
74AHC259PW,112	568-2505-5-ND	8-Bit Addressable Latch	16-TSSOP	.84	.66	.57
74AHC273BQ,115	568-2506-1-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	1.04	.83	.74
74AHC273BQ,115	568-2506-2-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	1149.00/3,000		
74AHC273PW,112	568-4454-5-ND	Octal D-Type F/F with Reset, Positive Edge Trigger	20-TSSOP	.50	.34	.27
74AHC377D,112	568-2509-5-ND	Octal D-Type F/F, Positive-Edge	20-SOIC	.84	.66	.57
74AHC377PW,112	568-2510-5-ND	Octal D-Type F/F, Positive-Edge	20-TSSOP	.84	.66	.57
74AHC541PW,118	568-4457-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.38	.32
74AHC541PW,118	568-4457-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	330.00/2,500		
74AHC1G00GW,125	568-2499-1-ND	2-Input NAND Gate	SC88A-5	.67	.31	.22
74AHC1G00GW,125	568-2499-2-ND	2-Input NAND Gate	SC88A-5	189.00/3,000		
74AHC1G02GV,125	568-4541-1-ND	2-Input NOR Gate	SC74A-5	.67	.31	.22
74AHC1G02GV,125	568-4541-2-ND	2-Input NOR Gate	SC74A-5	189.00/3,000		
74AHC1G02GW,125	568-4821-1-ND	2-Input NOR Gate ***NEW!***	5-TSSOP	.67	.31	.22
74AHC1G02GW,125	568-4821-2-ND	2-Input NOR Gate ***NEW!***	5-TSSOP	189.00/3,000		
74AHC1G04GV,125	568-4822-1-ND	Inverter ***NEW!***	SC-74A	.67	.31	.22
74AHC1G04GV,125	568-4822-2-ND	Inverter ***NEW!***	SC-74A	189.00/3,000		
74AHC1G04GW,125	568-2500-1-ND	Inverter	SC88A-5	.67	.31	.22
74AHC1G04GW,125	568-2500-2-ND	Inverter	SC88A-5	189.00/3,000		
74AHC1G08GW,125	568-2501-1-ND	2-Input AND Gate	SC88A-5	.67	.31	.22
74AHC1G08GW,125	568-2501-2-ND	2-Input AND Gate	SC88A-5	189.00/3,000		
74AHC1G14GV,125	568-2256-1-ND	Inverting Schmitt Trigger	SOT-753	.67	.31	.22
74AHC1G14GV,125	568-2256-2-ND	Inverting Schmitt Trigger	SOT-753	189.00/3,000		
74AHC1G14GW,125	568-2502-1-ND	Inverting Schmitt Trigger	SC88A-5	.67	.31	.22
74AHC1G14GW,125	568-2502-2-ND	Inverting Schmitt Trigger	SC88A-5	189.00/3,000		
74AHC1G32GV,125	568-2262-1-ND	2-Input OR Gate	SOT-753	.67	.31	.22
74AHC1G32GV,125	568-2262-2-ND	2-Input OR Gate	SOT-753	189.00/3,000		
74AHC1G32GW,125	568-2503-1-ND	2-Input OR Gate	SC88A-5	.67	.31	.22
74AHC1G32GW,125	568-2503-2-ND	2-Input OR Gate	SC88A-5	189.00/3,000		
74AHC1G86GV,125	568-4824-1-ND	2-Input EXCLUSIVE-OR Gate ***NEW!***	SC-74A	.47	.27	.20
74AHC1G86GV,125	568-4824-2-ND	2-Input EXCLUSIVE-OR Gate ***NEW!***	SC-74A	201.00/3,000		
74AHC1G125GW,125	568-4452-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.47	.27	.20
74AHC1G125GW,125	568-4452-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	201.00/3,000		
74AHC1G126GW,125	568-4823-1-ND	Tri-State Bus Buffer/Line Driver ***NEW!***	5-TSSOP	.47	.27	.20
74AHC1G126GW,125	568-4823-2-ND	Tri-State Bus Buffer/Line Driver ***NEW!***	5-TSSOP	201.00/3,000		
74AHC1GU04GW,125	568-4825-1-ND	Inverter ***NEW!***	5-TSSOP	.47	.27	.20
74AHC1GU04GW,125	568-4825-2-ND	Inverter ***NEW!***	5-TSSOP	201.00/3,000		
AHCT Family						
74AHCT04D,112	568-4459-5-ND	Hex Inverter	14-SOIC	.45	.26	.21
74AHCT04PW,118	568-4460-1-ND	Hex Inverter	14-TSSOP	.50	.30	.24
74AHCT04PW,118	568-4460-2-ND	Hex Inverter	14-TSSOP	212.50/2,500		
74AHCT14BQ,115	568-2512-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.72	.56	.50
74AHCT14D,118	568-4461-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.50	.30	.24
74AHCT14D,118	568-4461-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	212.50/2,500		
74AHCT30D,112	568-2518-5-ND	8-Input NAND Gate	14-SOIC	.48	.36	.31
74AHCT30PW,112	568-2519-5-ND	8-Input NAND Gate	14-TSSOP	.48	.36	.31
74AHCT125PW,112	568-4844-5-ND	Tri-State Quad Buffer/Line Driver ***NEW!***	14-TSSOP	.47	.31	.26
74AHCT126D,112	568-4845-5-ND	Tri-State Quad Buffer/Line Driver ***NEW!***	14-SOIC	.43	.29	.24
74AHCT164PW,112	568-2514-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-TSSOP	.78	.61	.53
74AHCT244PW,118	568-4465-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.57	.38	.31
74AHCT244PW,118	568-4465-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	322.50/2,500		
74AHCT245PW,118	568-4466-1-ND	Tri-St. Octal Bus Transceiver	20-TSSOP	.57	.38	.31
74AHCT245PW,118	568-4466-2-ND	Tri-St. Octal Bus Transceiver	20-TSSOP	322.50/2,500		
74AHCT259D,112	568-2515-5-ND	8-Bit Addressable Latch	16-SOIC	1.08	.87	.76
74AHCT541BQ,115	568-4353-1-ND	Tri-State Octal Buffer/Line Driver	20-QFN	.69	.54	.48
74AHCT541BQ,115	568-4353-2-ND	Tri-State Octal Buffer/Line Driver	20-QFN	687.00/3,000		
74AHCT541D,118	568-4546-1-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	.57	.38	.31
74AHCT541D,118	568-4546-2-ND	Tri-St. Octal Buffer/Line Driver	20-SOIC	264.00/2,000		
74AHCT541PW,112	568-4467-5-ND	Tri-St. Octal Buffer/ Line Driver	20-TSSOP	.55	.37	.30
74AHCT573PW,118	568-4468-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.58	.38	.32
74AHCT573PW,118	568-4468-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	330.00/2,500		
74AHCT595PW,112	568-4469-5-ND	Tri-St. Shift Register with Output Latches	16-TSSOP	.43	.32	.28
74AHCT1G00GW,125	568-4826-1-ND	2-Input NAND Gate ***NEW!***	5-TSSOP	.47	.27	.20
74AHCT1G00GW,125	568-4826-2-ND	2-Input NAND Gate ***NEW!***	5-TSSOP	201.00/3,000		
74AHCT1G02GW,125	568-4827-1-ND	2-Input NOR Gate ***NEW!***	5-TSSOP	.47	.27	.20
74AHCT1G02GW,125	568-4827-2-ND	2-Input NOR Gate ***NEW!***	5-TSSOP	201.00/3,000		
74AHCT1G04GW,125	568-4462-1-ND	High Speed Inverter	5-TSSOP	.67	.31	.22
74AHCT1G04GW,125	568-4462-2-ND	High Speed Inverter	5-TSSOP	189.00/3,000		
74AHCT1G08GV,125	568-4828-1-ND	2-Input AND Gate ***NEW!***	SC-74A	.47	.27	.20
74AHCT1G08GV,125	568-4828-2-ND	2-Input AND Gate ***NEW!***	SC-74A	201.00/3,000		
74AHCT1G08GW,125	568-4463-1-ND	2-Input AND Gate	5-TSSOP	.67	.31	.22
74AHCT1G08GW,125	568-4463-2-ND	2-Input AND Gate	5-TSSOP	189.00/3,000		
74AHCT1G14GV,125	568-4544-1-ND	Inverting Schmitt Trigger	SC74A	.67	.31	.22
74AHCT1G14GV,125	568-4544-2-ND	Inverting Schmitt Trigger	SC74A	189.00/3,000		
74AHCT1G14GW,125	568-4545-1-ND	Inverting Schmitt Trigger	5-TSSOP	.67	.31	.22
74AHCT1G14GW,125	568-4545-2-ND	Inverting Schmitt Trigger	5-TSSOP	189.00/3,000		
74AHCT1G32GV,125	568-4830-1-ND	2-Input OR Gate ***NEW!***	SC-74A	.67	.31	.22
74AHCT1G32GV,125	568-4830-2-ND	2-Input OR Gate ***NEW!***	SC-74A	189.00/3,000		
74AHCT1G32GW,125	568-4464-1-ND	2-Input OR Gate	5-TSSOP	.67	.31	.22
74AHCT1G32GW,125	568-4464-2-ND	2-Input OR Gate	5-TSSOP	189.00/3,000		
74AHCT1G86GW,125	568-4831-1-ND	2-Input EXCLUSIVE-OR Gate ***NEW!***	5-TSSOP	.47	.27	.20
74AHCT1G86GW,125	568-4831-2-ND	2-Input EXCLUSIVE-OR Gate ***NEW!***	5-TSSOP	201.00/3,000		
74AHCT1G125GW,125	568-4543-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.67	.31	.22
74AHCT1G125GW,125	568-4543-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	189.00/3,000		
74AHCT1G126GW,125	568-4829-1-ND	Tri-State Bus Buffer/Line Driver ***NEW!***	5-TSSOP	.67	.31	.22
74AHCT1G126GW,125	568-4829-2-ND	Tri-State Bus Buffer/Line Driver ***NEW!***	5-TSSOP	189.00/3,000		
ALVC Family						
74ALVC164245DGG:11	568-4985-1-ND	Tri-State 16-Bit Dual Supply Translating Transceiver ***NEW!***	48-TSSOP	1.22	.96	.87
74ALVC164245DGG:11	568-4985-2-ND	Tri-State 16-Bit Dual Supply Translating Transceiver ***NEW!***	48-TSSOP	896.00/2,000		
74ALVC164245DGG,51	568-1377-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-TSSOP	1.12	.90	.79
74ALVC16245DGG,518	568-4547-1-ND	Tri-State 16-Bit Transceiver with Direction Pin	48-TSSOP	1.18	.93	.84
74ALVC16245DGG,518	568-4547-2-ND	Tri-State 16-Bit Transceiver with Direction Pin	48-TSSOP	868.00/2,000		
74ALVC164245DL,112	568-1378-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-SSOP	1.05	.84	.74
ALVT Family						
74ALVT16241DGG,512	568-2529-5-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	4.57	3.68	3.35
74ALVT16245DGG,112	568-2531-5-ND	Tri-State 2.5V/3.3V 16-Bit Transceiver	48-TSSOP	3.99	3.21	2.92
74ALVT16245DL,112	568-2532-5-ND	Tri-State 2.5V/3.3V 16-Bit Transceiver	48-SSOP	3.99	3.21	2.92

* ***RoHS Compliant*** ★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★ *(Continued)*

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74ALVT16260DL,512	568-2533-5-ND	Tri-State 12 to 24-Bit Multiplexed D-Type Latch	56-SSOP	4.34	3.49	3.18
74ALVT16543DGG,112	568-2540-5-ND	Tri-State 2.5V/3.3V 16-Bit Registered Transceiver	56-TSSOP	7.03	5.77	5.20
74ALVT16823DL,512	568-2544-5-ND	Tri-St. 18-Bit Bus Interface D-Type F/F	56-SSOP	6.47	5.31	4.80
74ALVT162245DGG,51	568-2527-5-ND	Tri-St. 2.5V/3.3V 16-Bit Transceiver	48-TSSOP	4.77	3.84	3.50
74ALVT162245DL,112	568-2528-5-ND	Tri-St. 2.5V/3.3V 16-Bit Transceiver	48-SSOP	4.77	3.84	3.50
74ALVT162823DL,512	568-2537-5-ND	Tri-St. 18-Bit Bus Interface D-Type F/F	56-SSOP	6.47	5.31	4.80
AUP Family						
74AUP1G00GM,115	568-2545-1-ND	Low Power 2-Input NAND Gate	6-XSON	.65	.46	.40
74AUP1G00GM,115	568-2545-2-ND	Low Power 2-Input NAND Gate	6-XSON	865.00/5,000		
74AUP1G00GW,125	568-2546-1-ND	Low Power 2-Input NAND Gate	5-TSSOP	.58	.38	.32
74AUP1G00GW,125	568-2546-2-ND	Low Power 2-Input NAND Gate	5-TSSOP	396.00/3,000		
74AUP1G02GM,115	568-2547-1-ND	Low Power 2-Input NOR Gate	6-XSON	.65	.46	.40
74AUP1G02GM,115	568-2547-2-ND	Low Power 2-Input NOR Gate	6-XSON	865.00/5,000		
74AUP1G02GW,125	568-2548-1-ND	Low Power 2-Input NOR Gate	5-TSSOP	.58	.38	.32
74AUP1G02GW,125	568-2548-2-ND	Low Power 2-Input NOR Gate	5-TSSOP	396.00/3,000		
74AUP1G04GW,125	568-2549-1-ND	Low Power Inverter	5-TSSOP	.58	.38	.32
74AUP1G04GW,125	568-2549-2-ND	Low Power Inverter	5-TSSOP	396.00/3,000		
74AUP1G06GM,115	568-2550-1-ND	Low Power Inverter with OD Output	6-XSON	.53	.38	.32
74AUP1G06GW,125	568-2551-1-ND	Low Power Inverter with OD Output	5-TSSOP	.58	.38	.32
74AUP1G06GW,125	568-2551-2-ND	Low Power Inverter with OD Output	5-TSSOP	396.00/3,000		
74AUP1G08GM,115	568-2552-1-ND	Low Power 2-Input AND Gate	6-XSON	.65	.46	.40
74AUP1G08GM,115	568-2552-2-ND	Low Power 2-Input AND Gate	6-XSON	865.00/5,000		
74AUP1G08GW,125	568-2553-1-ND	Low Power 2-Input AND Gate	5-TSSOP	.58	.38	.32
74AUP1G08GW,125	568-2553-2-ND	Low Power 2-Input AND Gate	5-TSSOP	396.00/3,000		
74AUP1G0832GM,115	568-4375-1-ND	Low Power 3-Input AND-OR Gate	6-XSON	.77	.54	.47
74AUP1G0832GM,115	568-4375-2-ND	Low Power 3-Input AND-OR Gate	6-XSON	1015.00/5,000		
74AUP1G14GM,115	568-2558-1-ND	Low Power Schmitt Trigger Inverter	6-XSON	.65	.46	.40
74AUP1G14GM,115	568-2558-2-ND	Low Power Schmitt Trigger Inverter	6-XSON	865.00/5,000		
74AUP1G14GW,125	568-2559-1-ND	Low Power Schmitt Trigger Inverter	5-TSSOP	.58	.38	.32
74AUP1G14GW,125	568-2559-2-ND	Low Power Schmitt Trigger Inverter	5-TSSOP	396.00/3,000		
74AUP1G17GM,115	568-2560-1-ND	Low Power Schmitt Trigger Buffer	6-XSON	.65	.46	.40
74AUP1G17GM,115	568-2560-2-ND	Low Power Schmitt Trigger Buffer	6-XSON	865.00/5,000		
74AUP1G17GW,125	568-2561-1-ND	Low Power Schmitt Trigger Buffer	5-TSSOP	.58	.38	.32
74AUP1G17GW,125	568-2561-2-ND	Low Power Schmitt Trigger Buffer	5-TSSOP	396.00/3,000		
74AUP1G19GF,132	568-4745-1-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	6-XSON	.60	.47	.41
74AUP1G19GF,132	568-4745-2-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	6-XSON	1015.00/5,000		
74AUP1G19GM,132	568-4746-1-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	6-XSON	.57	.42	.36
74AUP1G19GM,132	568-4746-2-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	6-XSON	870.00/5,000		
74AUP1G19GW,125	568-4747-1-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	SC-88	.55	.39	.33
74AUP1G19GW,125	568-4747-2-ND	LP 1-of-2 Decoder/Demux. ***NEW!***	SC-88	465.00/3,000		
74AUP1G32GM,115	568-2562-1-ND	Low Power 2-Input OR Gate	6-XSON	.65	.46	.40
74AUP1G32GM,115	568-2562-2-ND	Low Power 2-Input OR Gate	6-XSON	865.00/5,000		
74AUP1G32GW,125	568-2563-1-ND	Low Power 2-Input OR Gate	5-TSSOP	.58	.38	.32
74AUP1G32GW,125	568-2563-2-ND	Low Power 2-Input OR Gate	5-TSSOP	396.00/3,000		
74AUP1G34GM,115	568-2564-1-ND	Low Power Buffer	6-XSON	.53	.38	.32
74AUP1G34GW,125	568-2565-1-ND	Low Power Buffer	5-TSSOP	.55	.39	.33
74AUP1G34GW,125	568-2565-2-ND	Low Power Buffer	5-TSSOP	465.00/3,000		
74AUP1G57GM,115	568-4385-1-ND	LP Configurable Multiple Function Gate	6-XSON	.77	.54	.47
74AUP1G57GM,115	568-4385-2-ND	LP Configurable Multiple Function Gate	6-XSON	1015.00/5,000		
74AUP1G58GM,115	568-2566-1-ND	LP Configurable Multiple Function Gate	6-XSON	.62	.44	.38
74AUP1G58GM,115	568-2567-1-ND	LP Configurable Multiple Function Gate	SC-88	.62	.44	.38
74AUP1G74GM,125	568-4386-1-ND	Low Power D-Type F/F with Set and Reset, Positive-Edge-Trigger	8-XQFN	.77	.54	.47
74AUP1G74GM,125	568-4386-2-ND	Low Power D-Type F/F with Set and Reset, Positive-Edge-Trigger	8-XQFN	868.00/4,000		
74AUP1G74GT,115	568-4387-1-ND	Low Power D-Type F/F with Set and Reset, Positive-Edge-Trigger	8-XSON	1.06	.82	.72
74AUP1G74GT,115	568-4387-2-ND	Low Power D-Type F/F with Set and Reset, Positive-Edge-Trigger	8-XSON	1620.00/5,000		
74AUP1G79GW,125	568-2569-1-ND	LP D-Type F/F, Positive-Edge-Trigger	5-TSSOP	.77	.54	.47
74AUP1G79GW,125	568-2569-2-ND	LP D-Type F/F, Positive-Edge-Trigger	5-TSSOP	651.00/3,000		
74AUP1G86GW,125	568-2571-1-ND	Low Power 2-In. Exclusive OR Gate	5-TSSOP	.58	.38	.32
74AUP1G86GW,125	568-2571-2-ND	Low Power 2-In. Exclusive OR Gate	5-TSSOP	396.00/3,000		
74AUP1G97GM,115	568-4390-1-ND	LP Configurable Multiple Function Gate	6-XSON	.77	.54	.47
74AUP1G97GM,115	568-4390-2-ND	LP Configurable Multiple Function Gate	6-XSON	1015.00/5,000		
74AUP1G98GM,115	568-4391-1-ND	LP Configurable Multiple Function Gate	6-XSON	.77	.54	.47
74AUP1G98GM,115	568-4391-2-ND	LP Configurable Multiple Function Gate	6-XSON	1015.00/5,000		
74AUP1G125GW,125	568-2555-1-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	.55	.39	.33
74AUP1G125GW,125	568-2555-2-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	465.00/3,000		
74AUP1G126GM,115	568-2556-1-ND	Tri-State LP Buffer/Line Driver	6-XSON	.53	.38	.32
74AUP1G126GW,125	568-2557-1-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	.55	.39	.33
74AUP1G126GW,125	568-2557-2-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	465.00/3,000		
74AUP1G157GM,115	568-4376-1-ND	Low Power 2-Input Mux	6-XSON	.65	.46	.40
74AUP1G157GM,115	568-4376-2-ND	Low Power 2-Input Mux	6-XSON	865.00/5,000		
74AUP1G157GW,125	568-4986-1-ND	Low Power 2-Input Mux ***NEW!***	SC-88	.88	.68	.60
74AUP1G157GW,125	568-4986-2-ND	Low Power 2-Input Mux ***NEW!***	SC-88	870.00/3,000		
74AUP1G158GM,115	568-4377-1-ND	Low Power 2-In. Inverting Mux	6-XSON	.65	.46	.40
74AUP1G158GM,115	568-4377-2-ND	Low Power 2-In. Inverting Mux	6-XSON	865.00/5,000		
74AUP1G175GM,115	568-4378-1-ND	Low Power D-Type F/F with Reset, Positive-Edge-Trigger	6-XSON	.65	.46	.40
74AUP1G175GM,115	568-4378-2-ND	Low Power D-Type F/F with Reset, Positive-Edge-Trigger	6-XSON	865.00/5,000		
74AUP1G240GM,115	568-4379-1-ND	Tri-St., LP Inverting Buffer/Line Driver	6-XSON	.77	.54	.47
74AUP1G240GM,115	568-4379-2-ND	Tri-St., LP Inverting Buffer/Line Driver	6-XSON	1015.00/5,000		
74AUP1G332GM,115	568-4381-1-ND	Low Power 3-Input OR Gate	6-XSON	.65	.46	.40
74AUP1G332GM,115	568-4381-2-ND	Low Power 3-Input OR Gate	6-XSON	865.00/5,000		
74AUP1G373GM,115	568-4382-1-ND	LP D-Type Transparent Latch, 3-State	6-XSON	.77	.54	.47
74AUP1G373GM,115	568-4382-2-ND	LP D-Type Transparent Latch, 3-State	6-XSON	1015.00/5,000		
74AUP1G374GM,115	568-4383-1-ND	Tri-St., Low Power D-Type F/F, Positive-Edge-Trigger	6-XSON	.77	.54	.47
74AUP1G374GM,115	568-4383-2-ND	Tri-St., Low Power D-Type F/F, Positive-Edge-Trigger	6-XSON	1015.00/5,000		
74AUP1G386GM,115	568-4384-1-ND	LP 3-Input Exclusive OR Gate	6-XSON	.77	.54	.47
74AUP1G386GM,115	568-4384-2-ND	LP 3-Input Exclusive OR Gate	6-XSON	1015.00/5,000		
74AUP1G885GM,125	568-4388-1-ND	Low Power Dual Function Gate	8-XQFN	.66	.51	.45
74AUP1G885GM,125	568-4388-2-ND	Low Power Dual Function Gate	8-XQFN	872.00/4,000		
74AUP1G885GT,115	568-4389-1-ND	Low Power Dual Function Gate	8-XSON	1.06	.82	.72
74AUP1G885GT,115	568-4389-2-ND	Low Power Dual Function Gate	8-XSON	1620.00/5,000		
74AUP1G3208GM,115	568-4380-1-ND	LP 3-Input OR-AND Gate	6-XSON	.77	.54	.47
74AUP1G3208GM,115	568-4380-2-ND	LP 3-Input OR-AND Gate	6-XSON	1015.00/5,000		
74AUP1GU04GM,115	568-2572-1-ND	Low Power Unbuffered Inverter	6-XSON	.77	.54	.47
74AUP1GU04GM,115	568-2572-2-ND	Low Power Unbuffered Inverter	6-XSON	1015.00/5,000		
74AUP1GU04GW,125	568-2573-1-ND	Low Power Unbuffered Inverter	5-TSSOP	.58	.38	.32
74AUP1GU04GW,125	568-2573-2-ND	Low Power Unbuffered Inverter	5-TSSOP	396.00/3,000		
74AUP1T58GF,132	568-4748-1-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	.96	.77	.68
74AUP1T58GF,132	568-4748-2-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	1820.00/5,000		
74AUP1T58GM,132	568-4749-1-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	.77	.54	.47
74AUP1T58GM,132	568-4749-2-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	1015.00/5,000		
74AUP1T58GW,125	568-4750-1-ND	Configurable Gate w/Translator ***NEW!***	SC-88	.52	.35	.28
74AUP1T58GW,125	568-4750-2-ND	Configurable Gate w/Translator ***NEW!***	SC-88	744.00/6,000		
74AUP1T98GF,132	568-4751-1-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	.96	.77	.68
74AUP1T98GF,132	568-4751-2-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	1820.00/5,000		
74AUP1T98GM,132	568-4752-1-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	.67	.49	.42
74AUP1T98GM,132	568-4752-2-ND	Configurable Gate w/Translator ***NEW!***	6-XSON	1015.00/5,000		
74AUP1T98GW,125	568-4753-1-ND	Configurable Gate w/Translator ***NEW!***	SC-88	.52	.35	.28
74AUP1T98GW,125	568-4753-2-ND	Configurable Gate w/Translator ***NEW!***	SC-88	744.00/6,000		
74AUP2G04GM,115	568-2574-1-ND	Low Power Dual Inverter	6-XSON	.54	.42	.37
74AUP2G04GW,125	568-2575-1-ND	Low Power Dual Inverter	SC-88	.84	.65	.57
74AUP2G04GW,125	568-2575-2-ND	Low Power Dual Inverter	SC-88	828.00/3,000		
74AUP2G07GM,115	568-2576-1-ND	LP Dual Buffer with OD Output	6-XSON	.54	.42	.37
74AUP2G07GW,125	568-2577-1-ND	LP Dual Buffer with OD Output	SC-88	.84	.65	.57
74AUP2G07GW,125	568-2577-2-ND	LP Dual Buffer with OD Output	SC-88	828.00/3,000		
74AUP2G14GW,125	568-2579-1-ND	LP Dual Schmitt Trigger Inverter	SC-88	.84	.65	.57
74AUP2G14GW,125	568-2579-2-ND	LP Dual Schmitt Trigger Inverter	SC-88	828.00/3,000		
74AUP2G34GM,115	568-2580-1-ND	Low Power Dual Buffer	6-XSON	.66	.51	.45
74AUP2G34GM,115	568-2580-2-ND	Low Power Dual Buffer	6-XSON	1015.00/5,000		
74AUP2G34GW,125	568-2581-1-ND	Low Power Dual Buffer	SC-88	.84	.65	.57
74AUP2G34GW,125	568-2581-2-ND	Low Power Dual Buffer	SC-88	828.00/3,000		
74AUP2G126DC,125	568-4987-1-ND	Tri-State Dual Buffer Driver ***NEW!***	8-VSSOP	.61	.43	.37
74AUP2G126DC,125	568-4987-2-ND	Tri-State Dual Buffer Driver ***NEW!***	8-VSSOP	513.00/3,000		
74AUP2GU04GM,115	568-2582-1-ND	Low Power Dual Unbuffered Inverter	6-XSON	.66	.51	.45
74AUP2GU04GM,115	568-2582-2-ND	Low Power Dual Unbuffered Inverter	6-XSON	1015.00/5,000		
74AUP2GU04GW,125	568-2583-1-ND	Low Power Dual Unbuffered Inverter	SC-88	.84	.65	.57
74AUP2GU04GW,125	568-2583-2-ND	Low Power Dual Unbuffered Inverter	SC-88	828.00/3,000		
NEW! AVC Family NEW!						
74AVC8T245PW,118	568-4754-1-ND	8-Bit Dual 3-State Transceiver	24-TSSOP	1.14	.90	.81
74AVC8T245PW,118	568-4754-2-ND	8-Bit Dual 3-State Transceiver	24-TSSOP	1050.00/2,500		
AVCH Family						
74AVCH16245DGG,112	568-2585-5-ND	16-Bit Transceiver w/Direction Pin	48-TSSOP	5.89	4.74	4.32
AVCM Family						
74AVCM162834DGG,11	568-2586-5-ND	18-Bit Registered Driver	56-TSSOP	2.12	1.72	1.54
CBT Family						
74CBTLV16211DGG;11	568-4756-5-ND	24-Bit Low Voltage Bus Switch ***NEW!***	56-TSSOP	1.71	1.38	1.24
74CBTLV1G125GV,125	568-4832-1-ND	Single Bus Switch ***NEW!***	SC-74A	.54	.38	.33
74CBTLV1G125GV,125	568-4832-2-ND	Single Bus Switch ***NEW!***	SC-74A	456.00/3,000		
74CBTLV1G125GW,125	568-4833-1-ND	Single Bus Switch ***NEW!***	5-TSSOP	.54	.38	.33
74CBTLV1G125GW,125	568-4833-2-ND	Single Bus Switch ***NEW!***	5-TSSOP	456.00/3,000		
CBT3244ABQ,118	568-3618-1-ND	Octal Bus Switch	20-DHVQFN	.62	.44	.38
CBT3244ADB,112	568-3620-5-ND	Octal Bus Switch	20-SSOP	.42	.32	.27
CBT3251D,112	568-3626-5-ND	1-of-8 FET Multiplexer/Demultiplexer	16-SOIC	.60	.47	.41
CBTL06121AHF,518	568-4713-1-ND	1:2 Triple Multiplexer ***NEW!***	56-HVQFN	2.17	1.75	1.58
CBTL06121AHF,518	568-4713-2-ND	1:2 Triple Multiplexer ***NEW!***	56-HVQFN	3780.00/4,000		
CBTL06121BHF,518	568-4714-1-ND	1:2 Triple Multiplexer ***NEW!***	56-HVQFN	2.17	1.75	1.58
CBTL06121BHF,518	568-4714-2-ND	1:2 Triple Multiplexer ***NEW!***	56-HVQFN	3780.00/4,000		
CBTU0808EE/G,518	568-3630-1-ND	Dual Lane PCI Express Port Multiplexer	48-TFBGA	2.45	2.01	1.80
HC Family						
74HC00BQ,115	568-2589-1-ND	Quad 2-Input NAND Gate	14-DHVQFN	.89	.69	.61
74HC00BQ,115	568-2589-2-ND	Quad 2-Input NAND Gate	14-DHVQFN	879.00/3,000		
74HC00D,652	568-3946-5-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.30	.24
74HC00DB,112	568-2590-5-ND	Quad 2-Input NAND Gate	14-SSOP	.55	.41	.35
74HC00D,653	568-1379-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.33	.27
74HC00D,653	568-1379-2-ND	Quad 2-Input NAND Gate	14-SOIC	237.50/2,500		
74HC00N,652	568-1380-5-ND	Quad 2-Input NAND Gate	14-Dip	.52	.35	.28
74HC00PW,118	568-4548-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.61	.36	.29
74HC00PW,118	568-4548-2-ND	Quad 2-Input NOR Gate	14-TSSOP	260.00/2,500		
74HC02D,652	568-3947-5-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.28	.22
74HC02D,653	568-1381-1-ND	Quad 2-Input NOR Gate	14-SOIC	.53	.31	.25
74HC02D,653	568-1381-2-ND	Quad 2-Input NOR Gate	14-SOIC	225.00/2,500		
74HC02N,652	568-1382-5-ND	Quad 2-Input NOR Gate	14-Dip	.52	.35	.28
74HC02PW,118	568-4549-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.61	.36	.29
74HC02PW,118	568-4549-2-ND	Quad 2-Input NOR Gate	14-TSSOP	260.00/2,500		
74HC03D,652	568-4988-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	.50	.30	.24
74HC03D,653	568-1383-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.33	.27
74HC03D,653	568-1383-2-ND	Quad 2-Input NAND Gate	14-SOIC	237.50/2,500		
74HC03N,652	568-4550-5-ND	Quad 2-Input NAND Gate	14-Dip	.52	.35	.28
74HC03PW,112	568-4551-5-ND	Quad 2-Input NAND Gate	14-TSSOP	.55	.32	.26
74HC04BQ,115	568-2592-1-ND	Hex Inverter	14-DHVQFN	.89	.69	.61
74HC04BQ,115	568-2592-2-ND	Hex Inverter	14-DHVQFN	879.00/3,000		
74HC04D,652	568-3948-5-ND	Hex Inverter	14-SOIC	.46	.27	.22
74HC04D,653	568-1384-1-ND	Hex Inverter	14-SOIC	.51	.30	.24
74HC04D,653	568-1384-2-ND	Hex Inverter	14-SOIC	215.00/2,500		
74HC04DB,112	568-2593-5-ND	Hex Inverter	14-SSOP	.55	.41	.35
74HC04N,652	568-1385-5-ND	Hex Inverter	14-Dip	.52	.35	.28
74HC04PW,118	568-4820-1-ND	Hex Inverter ***NEW!***	14-TSSOP	.61	.36	.29
74HC04PW,118	568-4820-2-ND	Hex Inverter ***NEW!***	14-TSSOP	260.00/2,500		
74HC08BQ,115	568-2594-1-ND	Quad 2-Input AND Gate	14-DHVQFN	.89	.69	.61
74HC08BQ,115	568-2594-2-ND	Quad 2-Input AND Gate	14-DHVQFN	879.00/3,000		
74HC08D,652	568-3949-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.27	.22
74HC08D,653	568-1386-1-ND	Quad 2-Input AND Gate	14-SOIC	.51	.30	.24
74HC08D,653	568-1386-2-ND	Quad 2-Input AND Gate	14-SOIC	215.00/2,500		
74HC08DB,112	568-2595-5-ND	Quad 2-Input AND Gate	14-SSOP	.55	.41	.35
74HC08N,652	568-1387-5-ND	Quad 2-Input AND Gate	14-Dip	.52	.35	.28
74HC10DB,112	568-2598-5-ND	Triple 3-Input NAND Gate	14-SSOP	.55	.41	.35
74HC10D,653	568-4470-1-ND	Triple 3-Input NAND Gate	14-SOIC	.56	.33	.27
74HC10D,653	568-4470-2-ND	Triple 3-Input NAND Gate	14-SOIC	237.50/2,500		
74HC10N,652	568-1388-5-ND	Triple 3-Input NAND Gate	14-Dip	.52	.35	.28
74HC11D,652	568-2600-5-ND	Triple 3-Input AND Gate	14-SOIC	.50	.30	.24
74HC11DB,112	568-2601-5-ND	Triple 3-Input AND Gate	14-SSOP	.55	.41	.35
74HC11N,652	568-1389-5-ND	Triple 3-Input AND Gate	14-Dip	.52	.35	.28
74HC14BQ,115	568-2610-1-ND	Hex Inverting Schmitt Trigger	14-QFN	.88	.68	.60
74HC14BQ,115	568-2610-2-ND	Hex Inverting Schmitt Trigger	14-QFN	870.00/3,000		
74HC14D,652	568-3953-5-ND	Hex Inverting Schmitt Trigger	14-SOIC	.46	.27	.22
74HC14D,653	568-1401-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.51	.30	.24
74HC14D,653	568-1401-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	215.00/2,500		
74HC14DB,112	568-2611-5-ND	Hex Inverting Schmitt Trigger	14-SSOP	.63	.49	.43
74HC14N,652	568-1402-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.52	.35	.28
74HC14PW,118	568-4472-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.61	.36	.29
74HC14PW,118	568-4472-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP	260.00/2,500		
74HC20D,652	568-4475-5-ND	Dual 4-Input NAND Gate	14-SOIC	.50	.30	.24

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(Continued)

NXP Digi-Reel® (Cont.) DIGITAL LOGIC RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC20DB,112	568-2643-5-ND	Dual 4-Input NAND Gate	14-SSOP	.55	.41	.35
74HC20N,652	568-1414-5-ND	Dual 4-Input NAND Gate	14-Dip	.52	.35	.28
74HC21D,652	568-4560-5-ND	Dual 4-Input AND Gate	14-SOIC	.39	.26	.21
74HC27D,652	568-2658-5-ND	Triple 3-Input NOR Gate	14-SOIC	.50	.30	.24
74HC27PW,112	568-4563-5-ND	Triple 3-Input NOR Gate	14-TSSOP	.44	.30	.24
74HC30DB,112	568-2662-5-ND	8-Input NAND Gate	14-SSOP	.60	.45	.38
74HC30D,652	568-1431-5-ND	8-Input NAND Gate	14-SOIC	.50	.30	.24
74HC30D,653	568-2261-1-ND	8-Input NAND Gate	14-SOIC	.58	.41	.35
74HC30D,653	568-2261-2-ND	8-Input NAND Gate	14-SOIC	407.50/2,500		
74HC30N,652	568-1432-5-ND	8-Input NAND Gate	14-Dip	.52	.35	.28
74HC32BQ,115	568-2663-1-ND	Quad 2-Input OR Gate	14-DHVQFN	.88	.68	.60
74HC32BQ,115	568-2663-2-ND	Quad 2-Input OR Gate	14-DHVQFN	870.00/3,000		
74HC32D,652	568-3958-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.27	.22
74HC32D,653	568-1433-1-ND	Quad 2-Input OR Gate	14-SOIC	.58	.41	.35
74HC32D,653	568-1433-2-ND	Quad 2-Input OR Gate	14-SOIC	215.00/2,500		
74HC32N,652	568-1434-5-ND	Quad 2-Input OR Gate	14-Dip	.52	.35	.28
74HC32PW,118	568-4565-1-ND	Quad 2-Input OR Gate	14-TSSOP	.61	.36	.29
74HC32PW,118	568-4565-2-ND	Quad 2-Input OR Gate	14-TSSOP	260.00/2,500		
74HC42N,652	568-1469-5-ND	BCD to Decimal Decoder	16-Dip	.80	.62	.54
74HC58D,652	568-2716-5-ND	Dual AND OR Gate	14-SOIC	.65	.48	.41
74HC73D,652	568-2735-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SOIC	.44	.33	.28
74HC73DB,112	568-2736-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SSOP	.65	.48	.42
74HC73N,652	568-1489-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-Dip	.60	.45	.38
74HC74BQ,115	568-2738-1-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	.89	.69	.61
74HC74BQ,115	568-2738-2-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	879.00/3,000		
74HC74D,652	568-3969-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.50	.30	.24
74HC74D,653	568-1490-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.56	.33	.27
74HC74D,653	568-1490-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	237.50/2,500		
74HC74N,652	568-1491-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-Dip	.54	.36	.30
74HC74PW,118	568-4574-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.61	.36	.29
74HC74PW,118	568-4574-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	260.00/2,500		
74HC75D,652	568-2744-5-ND	Quad Bistable Transparent Latch	16-SOIC	.62	.46	.40
74HC75N,652	568-1493-5-ND	Quad Bistable Transparent Latch	16-Dip	.55	.41	.35
74HC85D,652	568-1494-5-ND	4-Bit Magnitude Comparator	16-SOIC	.48	.36	.31
74HC85DB,112	568-2748-5-ND	4-Bit Magnitude Comparator	16-SSOP	.93	.72	.63
74HC85N,652	568-1495-5-ND	4-Bit Magnitude Comparator	16-Dip	.63	.49	.43
74HC86D,653	568-1496-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.66	.47	.40
74HC86D,653	568-1496-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	465.00/2,500		
74HC86DB,112	568-2749-5-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.55	.43	.37
74HC86N,652	568-1497-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.55	.37	.30
74HC93D,112	568-2754-5-ND	4-Bit Binary Ripple Counter	14-SOIC	.84	.66	.57
74HC107D,653	568-4552-1-ND	Dual JK F/F, Negative-Edge Trigger	14-SOIC	.51	.36	.31
74HC107D,653	568-4552-2-ND	Dual JK F/F, Negative-Edge Trigger	14-SOIC	362.50/2,500		
74HC107DB,112	568-2596-5-ND	Dual JK F/F Negative-Edge Trigger	14-SSOP	.80	.62	.54
74HC107N,652	568-4553-5-ND	Dual JK F/F, Negative-Edge Trigger	14-Dip	.60	.45	.38
74HC109D,652	568-4554-5-ND	Dual JK F/F Positive-Edge Trigger	16-SOIC	.44	.33	.29
74HC112DB,112	568-2599-5-ND	Dual JK F/F Negative-Edge Trigger	16-SSOP	.67	.53	.46
74HC123D,652	568-3950-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.33	.27
74HC123D,653	568-1390-1-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.54	.36	.30
74HC123D,653	568-1390-2-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	310.00/2,500		
74HC123DB,112	568-2602-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SSOP	.84	.66	.57
74HC123N,652	568-1391-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.60	.45	.38
74HC123PW,112	568-4471-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-TSSOP	.57	.38	.31
74HC125D,652	568-4989-ND	Tri-State Quad Buffer/Line Driver ***NEW!***	14-SOICN	.55	.32	.26
74HC125D,653	568-1392-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.61	.36	.29
74HC125D,653	568-1392-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	260.00/2,500		
74HC125N,652	568-1393-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.43	.32	.28
74HC126D,652	568-2603-5-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.42	.28	.23
74HC132D,652	568-3951-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.39	.26	.21
74HC132D,653	568-1394-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.44	.29	.24
74HC132D,653	568-1394-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	247.50/2,500		
74HC132N,652	568-1395-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.43	.32	.28
74HC132PW,112	568-2604-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.48	.32	.26
74HC137D,652	568-2605-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.63	.47	.40
74HC137DB,112	568-2606-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	.76	.59	.52
74HC137N,652	568-1396-5-ND	3-to-8 Line Decoder/Demultiplexer	16-Dip	.55	.41	.35
74HC138BQ,115	568-2607-1-ND	3-to-8 Line Decoder/Demultiplexer	16-DHVQFN	1.02	.79	.70
74HC138BQ,115	568-2607-2-ND	3-to-8 Line Decoder/Demultiplexer	16-DHVQFN	1008.00/3,000		
74HC138D,652	568-3952-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.55	.32	.26
74HC138D,653	568-1397-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.61	.36	.29
74HC138D,653	568-1397-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	260.00/2,500		
74HC138N,652	568-1398-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.43	.32	.28
74HC138PW,118	568-4555-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-TSSOP	.64	.42	.35
74HC138PW,118	568-4555-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-TSSOP	362.50/2,500		
74HC139D,652	568-1399-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-SOIC	.46	.31	.25
74HC139N,652	568-1400-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-Dip	.43	.32	.28
74HC147D,653	568-4556-1-ND	10-to-4 Line Priority Encoder	16-SOIC	.69	.49	.42
74HC147D,653	568-4556-2-ND	10-to-4 Line Priority Encoder	16-SOIC	487.50/2,500		
74HC151D,652	568-1403-5-ND	8-Input Multiplexer	16-SOIC	.56	.37	.31
74HC151DB,112	568-2612-5-ND	8-Input Multiplexer	16-SSOP	.88	.69	.60
74HC151N,652	568-4847-5-ND	8-Input Multiplexer ***NEW!***	16-Dip	.50	.38	.32
74HC153D,652	568-1404-5-ND	Dual 4-Input Multiplexer	16-SOIC	.56	.37	.31
74HC153DB,112	568-2613-5-ND	Dual 4-Input Multiplexer	16-SSOP	.84	.66	.57
74HC153N,652	568-1405-5-ND	Dual 4-Input Multiplexer	16-Dip	.41	.31	.26
74HC154D,652	568-1406-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	1.05	.84	.74
74HC154DB,112	568-2614-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SSOP	1.70	1.37	1.24
74HC154N,652	568-1407-5-ND	4-to-16 Line Decoder/Demultiplexer	24-Dip	1.29	1.03	.91
74HC157D,652	568-2615-5-ND	Quad 2-Input Multiplexer	16-SOIC	.56	.37	.31

NXP Digi-Reel® (Cont.) DIGITAL LOGIC RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC157DB,112	568-2616-5-ND	Quad 2-Input Multiplexer	16-SSOP	.72	.56	.49
74HC160DB,112	568-2617-5-ND	Presettable Sync. BCD Decade Counter	16-SSOP	.84	.66	.57
74HC161D,652	568-4848-5-ND	4-Bit Binary Counter ***NEW!***	16-SOIC	.56	.37	.31
74HC161D,653	568-4557-1-ND	Presettable Sync. 4-Bit Binary Counter	16-SOIC	.62	.41	.34
74HC161D,653	568-4557-2-ND	Presettable Sync. 4-Bit Binary Counter	16-SOIC	355.00/2,500		
74HC161DB,112	568-2618-5-ND	Presettable Sync. 4-Bit Binary Counter	16-SSOP	.84	.66	.57
74HC163DB,112	568-2619-5-ND	Presettable Sync. 4-Bit Binary Counter	16-SSOP	.84	.66	.57
74HC164DB,112	568-2620-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SSOP	.84	.66	.57
74HC164D,653	568-1408-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.51	.34	.28
74HC164D,653	568-1408-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	287.50/2,500		
74HC164N,652	568-2621-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.45	.34	.29
74HC164PW,112	568-4473-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-TSSOP	.43	.32	.28
74HC165D,652	568-3954-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.54	.36	.30
74HC165D,653	568-1409-1-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.60	.40	.33
74HC165D,653	568-1409-2-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	342.50/2,500		
74HC165DB,112	568-2622-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.66	.57
74HC165N,652	568-1410-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.48	.35	.30
74HC165PW,112	568-2623-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-TSSOP	.57	.38	.31
74HC165PW,118	568-4990-1-ND	8-Bit Parallel-In/Serial-Out Shift Register ***NEW!***	16-TSSOP	.64	.42	.35
74HC165PW,118	568-4990-2-ND	8-Bit Parallel-In/Serial-Out Shift Register ***NEW!***	16-TSSOP	362.50/2,500		
74HC166D,652	568-2624-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.47	.35	.30
74HC166DB,112	568-2625-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.66	.57
74HC166N,652	568-2626-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.61	.48	.42
74HC173D,653	568-4558-1-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SOIC	.58	.41	.35
74HC173D,653	568-4558-2-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SOIC	407.50/2,500		
74HC173N,652	568-1411-5-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-Dip	.61	.48	.42
74HC174D,652	568-2628-5-ND	Hex D-Type F/F, Positive-Edge-Triggered	16-SOIC	.47	.35	.30
74HC174DB,112	568-2629-5-ND	Hex D-Type F/F, Positive-Edge-Triggered	16-SSOP	.80	.62	.54
74HC175D,652	568-2630-5-ND	Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SOIC	.44	.33	.28
74HC191D,652	568-2632-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.66	.49	.42
74HC191DB,112	568-2633-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SSOP	.92	.74	.65
74HC191N,652	568-1412-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-Dip	.52	.39	.33
74HC193D,652	568-1413-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.62	.49	.43
74HC193N,652	568-4474-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-Dip	.76	.59	.52
74HC194DB,112	568-2635-5-ND	4-Bit Bidirectional Univ. Shift Register	16-SSOP	.93	.72	.63
74HC221D,652	568-1415-5-ND	Dual Non-Retriggerable Mono Multivibrator with Reset	16-SOIC	.63	.49	.43
74HC221DB,112	568-2644-5-ND	Dual Non-Retriggerable Mono Multivibrator with Reset	16-SSOP	1.03	.83	.73
74HC237D,652	568-4561-5-ND	3-to-8 Line Decoder/Demultiplexer with Address Latches	16-SSOP	.60	.45	.38
74HC237DB,112	568-2645-5-ND	3-to-8 Line Decoder/Demultiplexer with Address Latches	16-SSOP	.92	.74	.65
74HC237N,652	568-1416-5-ND	3-to-8 Line Decoder/Demultiplexer with Address Latches	16-Dip	.69	.54	.47
74HC238D,653	568-1417-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.97	.75	.66
74HC238D,653	568-1417-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	797.50/2,500		
74HC238DB,112	568-2646-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	.92	.74	.65
74HC238N,652	568-1418-5-ND	3-to-8 Line Decoder/Demultiplexer	16-Dip	.69	.54	.47
74HC240D,652	568-2647-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.54	.36	.30
74HC240DB,112	568-2648-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.62	.54
74HC240N,652	568-2649-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.37	.32
74HC241D,652	568-4476-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.41	.35
74HC241N,652	568-1419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.49	.39	.34
74HC243DB,112	568-2651-5-ND	Tri-State Quad Bus Transceiver	14-SSOP	.65	.51	.44
74HC244BQ,115	568-2652-1-ND	Tri-State Octal Buffer/Line Driver	20-QFN	.94	.75	.67
74HC244D,652	568-3955-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.52	.35	.28
74HC244D,653	568-1420-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.40	.33
74HC244D,653	568-1420-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	274.00/2,000		
74HC244N,652	568-1421-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
74HC244PW,118	568-4562-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.64	.42	.35
74HC244PW,118	568-4562-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	362.50/2,500		
74HC245D,652	568-3956-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.54	.36	.30
74HC245D,653	568-1422-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.40	.33
74HC245D,653	568-1422-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	274.00/2,000		
74HC245N,652	568-1423-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.41	.35
74HC245PW,112	568-2653-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.57	.38	.31
74HC245PW,118	568-4991-1-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-TSSOP	.64	.42	.35
74HC245PW,118	568-4991-2-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-TSSOP	362.50/2,500		
74HC251D,652	568-1424-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	.44	.33	.28
74HC257D,652	568-2654-5-ND	Tri-State Quad 2-Input Multiplexer	16-SOIC	.58	.39	.32
74HC257DB,112	568-2655-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	.79	.61	.54
74HC257N,652	568-1425-5-ND	Tri-State Quad 2-Input Multiplexer	16-Dip	.61	.48	.42
74HC258DB,112	568-2656-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	.97	.76	.66
74HC259D,652	568-1426-5-ND	8-Bit Addressable Latch	16-SOIC	.54	.36	.30
74HC259N,652	568-1427-5-ND	8-Bit Addressable Latch	16-Dip	.52	.39	.33
74HC273D,652	568-3957-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.54	.36	.30
74HC273D,653	568-1428-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.60	.40	.33
74HC273D,653	568-1428-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	274.00/2,000		
74HC273N,652	568-1429-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.60	.45	.38
74HC273PW,118	568-4477-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge Triggered	20-TSSOP	.64	.42	.35
74HC273PW,118	568-4477-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge Triggered	20-TSSOP	362.50/2,500		
74HC283DB,112	568-2660-5-ND	4-Bit Binary Full Adder	16-SSOP	.92	.74	.65
74HC299D,653	568-4564-1-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	1.75	1.35	1.23
74HC299D,653	568-4564-2-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	1350.00/2,000		
74HC299DB,112	568-2661-5-ND	Tri-State 8-Bit Universal Shift Register	20-SSOP	1.63	1.32	1.19
74HC299N,652	568-1430-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	1.65	1.33	1.16
74HC365D,652	568-2665-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.55	.41	.35
74HC366D,652	568-2667-5-ND	Tri-St. Hex Buffer/Line Driver, Inverting	16-SOIC	.60	.45	.38

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC367D,652	568-1436-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.57	.42	.36
74HC368D,652	568-4566-5-ND	Tri-St. Hex Buffer/Line Driver, Inverting	16-SOIC	.55	.41	.35
74HC373D,652	568-3959-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.52	.35	.28
74HC373D,653	568-1437-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.40	.33
74HC373D,653	568-1437-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	274.00/2,000		
74HC373N,652	568-1438-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.60	.45	.38
74HC373PW,118	568-4567-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.64	.42	.35
74HC373PW,118	568-4567-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	362.50/2,500		
74HC374D,652	568-3960-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.52	.35	.28
74HC374N,652	568-1440-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.60	.45	.38
74HC374PW,118	568-4568-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	.64	.42	.35
74HC374PW,118	568-4568-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	362.50/2,500		
74HC377D,652	568-2670-5-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.58	.43	.37
74HC377N,652	568-1441-5-ND	Octal D-Type Flip-Flop with Data Enable, Positive-Edge Triggered	20-Dip	.58	.45	.40
74HC377PW,118	568-4992-1-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered ***NEW!***	20-TSSOP	.67	.47	.41
74HC377PW,118	568-4992-2-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered ***NEW!***	20-TSSOP	472.50/2,500		
74HC390D,652	568-2672-5-ND	Dual Decade Ripple Counter	16-SOIC	.58	.43	.37
74HC390DB,112	568-2673-5-ND	Dual Decade Ripple Counter	16-SSOP	.93	.72	.63
74HC390N,652	568-1442-5-ND	Dual Decade Ripple Counter	16-Dip	.71	.56	.49
74HC393BQ,115	568-2674-1-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	.70	.55	.48
74HC393BQ,115	568-2674-2-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	696.00/3,000		
74HC393D,653	568-1443-1-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.60	.40	.33
74HC393D,653	568-1443-2-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	342.50/2,500		
74HC423D,652	568-1467-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.63	.47	.40
74HC423N,652	568-1468-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.68	.53	.47
74HC540D,652	568-2708-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.66	.49	.42
74HC540DB,112	568-2709-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.99	.80	.70
74HC540N,652	568-1473-5-ND	Tri-St. Octal Buffer/Line Driver, Inverting	20-Dip	.58	.45	.40
74HC541D,652	568-3965-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.54	.36	.30
74HC541D,653	568-1474-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.40	.33
74HC541D,653	568-1474-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	274.00/2,000		
74HC541DB,112	568-2710-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.88	.71	.62
74HC541DB,112	568-1475-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.60	.45	.38
74HC563N,652	568-1476-5-ND	Tri-State Octal D-Type Transparent Latch, Inverting	20-Dip	.75	.59	.51
74HC573BQ,115	568-2713-1-ND	Tri-St. Octal D-Type Transparent Latch	20-DHVQFN	1.15	.91	.82
74HC573BQ,115	568-2713-2-ND	Tri-St. Octal D-Type Transparent Latch	20-DHVQFN	1272.00/3,000		
74HC573D,652	568-3966-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.54	.36	.30
74HC573D,653	568-1477-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.84	.65	.57
74HC573D,653	568-1477-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	270.00/2,000		
74HC573DB,112	568-2714-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.62	.54
74HC573N,652	568-1478-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.60	.45	.38
74HC573PW,118	568-2264-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.64	.42	.35
74HC573PW,118	568-2264-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	362.50/2,500		
74HC574D,652	568-3967-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.54	.36	.30
74HC574D,653	568-1479-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.60	.40	.33
74HC574D,653	568-1479-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	274.00/2,000		
74HC574DB,112	568-2715-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SSOP	.80	.62	.54
74HC574N,652	568-1480-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.60	.45	.38
74HC574PW,118	568-4479-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	.64	.42	.35
74HC574PW,118	568-4479-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	362.50/2,500		
74HC594D,112	568-1482-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.69	.51	.44
74HC594DB,112	568-2718-5-ND	8-Bit Shift Register with Output Register	16-SSOP	2.55	2.06	1.85
74HC595BQ,115	568-2719-1-ND	Tri-State 8-Bit Serial-In Serial or Parallel-Out Shift Register	16-DHVQFN	1.15	.91	.82
74HC595BQ,115	568-2719-2-ND	Tri-State 8-Bit Serial-In Serial or Parallel-Out Shift Register	16-DHVQFN	1272.00/3,000		
74HC595D,112	568-3968-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	.46	.31	.26
74HC595D,118	568-1483-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	.86	.67	.59
74HC595D,118	568-1483-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	707.50/2,500		
74HC595DB,112	568-2720-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel- Out Shift Register	16-SSOP	.96	.77	.68
74HC595N,112	568-1484-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-Dip	.60	.45	.38
74HC595PW,118	568-2263-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	.64	.42	.35
74HC595PW,118	568-2263-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	362.50/2,500		
74HC597D,652	568-1485-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-SOIC	.63	.47	.40
74HC597DB,112	568-2721-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-SSOP	1.03	.83	.73
74HC597N,652	568-1486-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-Dip	.78	.61	.53
74HC640DB,112	568-2723-5-ND	Tri-State Octal Bus Transceiver	20-SSOP	.90	.72	.63
74HC670DB,112	568-2726-5-ND	Tri-State 4 x 4 Register File	16-SSOP	1.29	1.04	.91
74HC688D,652	568-2727-5-ND	8-Bit Magnitude Comparator	20-SOIC	.67	.49	.42
74HC688DB,112	568-2728-5-ND	8-Bit Magnitude Comparator	20-SSOP	.96	.77	.68
74HC688N,652	568-1487-5-ND	8-Bit Magnitude Comparator	20-Dip	.92	.72	.63
74HC4002D,652	568-4569-5-ND	Dual 4-Input NOR Gate	14-SOIC	.52	.39	.34
74HC4002DB,112	568-2675-5-ND	Dual 4-Input NOR Gate	14-SSOP	.60	.45	.38
74HC4015DB,112	568-2682-5-ND	Dual 4-Bit Shift Register	16-SSOP	.88	.69	.60
74HC4017D,652	568-1446-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-SOIC	.62	.46	.39

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC4017DB,112	568-2683-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-SSOP	.96	.77	.68
74HC4017N,652	568-1447-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-Dip	.78	.61	.53
74HC4020D,652	568-2684-5-ND	14-Stage Binary Ripple Counter	16-SOIC	.55	.41	.35
74HC4020DB,112	568-2685-5-ND	14-Stage Binary Ripple Counter	16-SSOP	.92	.74	.65
74HC4024D,652	568-1448-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.74	.57	.50
74HC4024DB,112	568-2686-5-ND	7-Stage Binary Ripple Counter	14-SSOP	.93	.72	.63
74HC4024N,652	568-1449-5-ND	7-Stage Binary Ripple Counter	14-Dip	.65	.51	.44
74HC4040D,652	568-1450-5-ND	12-Stage Binary Ripple Counter	16-SOIC	.44	.33	.29
74HC4040N,652	568-1451-5-ND	12-Stage Binary Ripple Counter	16-Dip	.63	.49	.43
74HC4040PW,118	568-4570-1-ND	12-Stage Binary Ripple Counter	16-TSSOP	.54	.38	.33
74HC4040PW,118	568-4570-2-ND	12-Stage Binary Ripple Counter	16-TSSOP	382.50/2,500		
74HC4046AD,652	568-1452-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.71	.53	.45
74HC4046ADB,112	568-2687-5-ND	Phase-Locked-Loop with VCO	16-SSOP	1.51	1.21	1.06
74HC4049D,652	568-2688-5-ND	Hex Inverting Level Shifter	16-SOIC	.71	.56	.49
74HC4049DB,112	568-2689-5-ND	Hex Inverting Level Shifter	16-SSOP	.97	.76	.66
74HC4050D,652	568-1453-5-ND	Hex High-to-Low Level Shifter	16-SOIC	.44	.33	.29
74HC4050DB,112	568-2690-5-ND	Hex High-to-Low Level Shifter	16-SSOP	.93	.72	.63
74HC4051D,653	568-1454-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.84	.65	.57
74HC4051D,652	568-3961-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.32	.26
74HC4051D,653	568-1454-2-ND	8-Channel Analog Mux/Demux	16-SOIC	690.00/2,500		
74HC4051DB,112	568-2691-5-ND	8-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HC4051N,652	568-1455-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.33
74HC4051PW,118	568-2259-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.58	.38	.32
74HC4051PW,118	568-2259-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	330.00/2,500		
74HC4052D,652	568-3962-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.54	.36	.30
74HC4052D,653	568-1456-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.84	.65	.57
74HC4052D,653	568-1456-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	690.00/2,500		
74HC4052DB,112	568-2692-5-ND	Dual 4-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HC4052N,652	568-1457-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.65	.48	.41
74HC4052PW,112	568-2693-5-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.57	.38	.31
74HC4053D	568-3963-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.46	.31	.25
74HC4053D,653	568-1458-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.84	.65	.57
74HC4053D,653	568-1458-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	690.00/2,500		
74HC4053DB,112	568-2694-5-ND	Triple 2-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HC4053N,652	568-1459-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.65	.48	.41
74HC4053PW,118	568-4478-1-ND	Triple 2-Ch. Analog Mux/Demux	16-TSSOP	.64	.42	.35
74HC4053PW,118	568-4478-2-ND	Triple 2-Ch. Analog Mux/Demux	16-TSSOP	362.50/2,500		
74HC4059D,112	568-2695-5-ND	Programmable Divide-By-N Counter	24-SOIC	2.44	1.97	1.78
74HC4059DB,112	568-2696-5-ND	Programmable Divide-By-N Counter	24-SSOP	2.94	2.37	2.14
74HC4060D,652	568-1460-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.55	.41	.35
74HC4060N,652	568-1461-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-Dip	.69	.54	.47
74HC4066D,652	568-3964-5-ND	Quad Bilateral Switch	14-SOIC	.40	.27	.22
74HC4066D,653	568-1462-1-ND	Quad Bilateral Switch	14-SOIC	.45	.30	.25
74HC4066D,653	568-1462-2-ND	Quad Bilateral Switch	14-SOIC	255.00/2,500		
74HC4066N,652	568-1463-5-ND	Quad Bilateral Switch	14-Dip	.60	.45	.38
74HC4066PW,112	568-2697-5-ND	Quad Bilateral Switch	14-TSSOP	.49	.33	.27
74HC4067D,652	568-2698-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.78	.61	.53
74HC4067PW,112	568-2699-5-ND	16-Channel Analog Mux/Demux	24-TSSOP	2.94	2.37	2.14
74HC4075DB,112	568-2700-5-ND	Triple 3-Input OR Gate	14-SSOP	.53	.39	.34
74HC4094D,652	568-1465-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.44	.33	.29
74HC4094D,653	568-2265-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.51	.36	.31
74HC4094D,653	568-2265-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	362.50/2,500		
74HC4094N,652	568-1466-5-ND	8-Stage Shift-and-Store Bus Register	16-Dip	.71	.56	.49
74HC4316D,652	568-1470-5-ND	Quad Bilateral Switch	16-SOIC	.55	.41	.35
74HC4316D,653	568-2260-1-ND	Quad Bilateral Switch	16-SOIC	.97	.75	.66
74HC4316D,653	568-2260-2-ND	Quad Bilateral Switch	16-SOIC	797.50/2,500		
74HC4351D,652	568-4571-5-ND	8-Channel Mux/Demux	20-SOIC	.87	.68	.59
74HC4351DB,112	568-2702-5-ND	8-Channel Mux/Demux	20-SSOP	1.22	.98	.86
74HC4511D,652	568-4572-5-ND	BCD 7-Segment Latch/Decoder/ Driver	16-SOIC	.90	.70	.61
74HC4514D,652	568-2703-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	1.16	.93	.81
74HC4514DB,112	568-2704-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SSOP	1.89	1.53	1.38
74HC4515D,652	568-4573-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	1.36	1.09	.96
74HC4520DB,112	568-2705-5-ND	Dual 4-Bit Sync. Binary Counter	16-SSOP	1.11	.89	.78
74HC4520PW,112	568-2706-5-ND	Dual 4-Bit Sync. Binary Counter	16-TSSOP	1.03	.83	.73
74HC4538D,652	568-1471-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SOIC	.60	.45	.38
74HC4538DB,112	568-2707-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SSOP	1.07	.86	.75
74HC4538N,652	568-1472-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-Dip	.63	.49	.43
74HC5555D,112	568-2711-5-ND	Programmable Delay Timer	16-SOIC	1.61	1.30	1.17
74HC5555N,112	568-2712-5-ND	Programmable Delay Timer	16-Dip	1.61	1.30	1.17
74HC6323AD,112	568-2722-5-ND	Tri-State Programmable Ripple Counter	8-SOIC	1.08	.87	.76
74HC7014D,112	568-1488-5-ND	Hex Non-Inverting Precision Schmitt-Trigger	14-SOIC	1.52	1.22	1.07
74HC7014N,112	568-2729-5-ND	Hex Non-Inverting Precision Schmitt-Trigger	14-Dip	1.52	1.22	1.07
74HC7030D,652	568-2730-5-ND	Tri-St. 9-Bit x 64 Word FIFO Register	28-SOIC	6.72	5.40	4.92
74HC7030N,652	568-2731-5-ND	Tri-State 9-Bit x 64 Word FIFO Register	28-Dip	6.72	5.40	4.92
74HC7046ADB,112	568-2732-5-ND	PLL with Lock Detector	16-SSOP	2.35	1.90	1.71
74HC7266D,652	568-2733-5-ND	Quad 2-Input Exclusive NOR Gate	14-SOIC	.72	.56	.49
74HC7266DB,112	568-2734-5-ND	Quad 2-Input Exclusive NOR Gate	14-SSOP	.97	.76	.66
74HC7403N,112	568-2737-5-ND	Tri-State 4-Bit x 64-Word FIFO Register	16-Dip	3.09	2.49	2.27
74HC7540D,112	568-2739-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-SOIC	1.56	1.25	1.10
74HC7540DB,112	568-2740-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-SSOP	1.56	1.25	1.10
74HC7540N,112	568-2741-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-Dip	1.27	1.02	.90
74HC7541D,112	568-2742-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver	20-SOIC	1.56	1.25	1.10
74HC7541DB,112	568-1492-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver	20-SSOP	1.56	1.25	1.10
74HC7541N,112	568-2743-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver	20-Dip	1.56	1.25	1.10

** RoHS Compliant*

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(Continued)

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC7731D,112	568-2746-5-ND	Quad 64-Bit Static Shift Register	16-SOIC	4.82	3.88	3.53
74HC7731N,112	568-2747-5-ND	Quad 64-Bit Static Shift Register	16-Dip	4.82	3.88	3.53
74HC9114D,112	568-2750-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output, Inverting	20-SOIC	1.65	1.34	1.20
74HC9115D,112	568-2752-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output	20-SOIC	1.33	1.07	.93
74HC9115N,112	568-2753-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output	20-Dip	1.33	1.07	.93
74HC40103D,652	568-2676-5-ND	8-Bit Sync. Binary Down Counter	16-SOIC	.92	.72	.63
74HC40103N,652	568-1445-5-ND	8-Bit Sync. Binary Down Counter	16-Dip	1.19	.96	.84
74HC40103PW,112	568-2678-5-ND	8-Bit Sync. Binary Down Counter	16-TSSOP	1.29	1.04	.91
74HC40105D,652	568-2679-5-ND	4-Bit x 16-Word FIFO Register	16-SOIC	1.55	1.24	1.09
74HC40105DB,112	568-2680-5-ND	4-Bit x 16-Word FIFO Register	16-SSOP	1.55	1.24	1.09
74HC40105PW,112	568-2681-5-ND	4-Bit x 16-Word FIFO Register	16-TSSOP	1.55	1.24	1.09
74HC1G00GV,125	568-4559-1-ND	2-Input NAND Gate	SC74A	.67	.31	.22
74HC1G00GV,125	568-4559-2-ND	2-Input NAND Gate	SC74A	189.00/3,000		
74HC1G00GW,125	568-2636-1-ND	2-Input NAND Gate	SC88A-5	.67	.31	.22
74HC1G00GW,125	568-2636-2-ND	2-Input NAND Gate	SC88A-5	189.00/3,000		
74HC1G02GW,125	568-2637-1-ND	2-Input NOR Gate	SC88A-5	.67	.31	.22
74HC1G02GW,125	568-2637-2-ND	2-Input NOR Gate	SC88A-5	189.00/3,000		
74HC1G04GW,125	568-2638-1-ND	Inverter	SC88A-5	.67	.31	.22
74HC1G04GW,125	568-2638-2-ND	Inverter	SC88A-5	189.00/3,000		
74HC1G08GW,125	568-2639-1-ND	2-Input AND Gate	SC88A-5	.67	.31	.22
74HC1G08GW,125	568-2639-2-ND	2-Input AND Gate	SC88A-5	189.00/3,000		
74HC1G14GW,125	568-2641-1-ND	Inverting Schmitt Trigger	SC88A-5	.67	.31	.22
74HC1G14GW,125	568-2641-2-ND	Inverting Schmitt Trigger	SC88A-5	189.00/3,000		
74HC1G66GW,125	568-2642-1-ND	Bilateral Switch	SC88A-5	.47	.27	.20
74HC1G66GW,125	568-2642-2-ND	Bilateral Switch	SC88A-5	201.00/3,000		
74HC1G125GW,125	568-2640-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.47	.27	.20
74HC1G125GW,125	568-2640-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	201.00/3,000		
HCT Family						
74HCT00D,652	568-4993-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	.50	.30	.24
74HCT00D,653	568-1498-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.33	.27
74HCT00D,653	568-1498-2-ND	Quad 2-Input NAND Gate	14-SOIC	237.50/2,500		
74HCT00DB,112	568-2757-5-ND	Quad 2-Input NAND Gate	14-SSOP	.60	.45	.38
74HCT00N,652	568-1499-5-ND	Quad 2-Input NAND Gate	14-Dip	.54	.36	.30
74HCT02D,653	568-1500-1-ND	Quad 2-Input NOR Gate	14-SOIC	.58	.41	.35
74HCT02D,653	568-1500-2-ND	Quad 2-Input NOR Gate	14-SOIC	407.50/2,500		
74HCT02DB,112	568-2758-5-ND	Quad 2-Input NOR Gate	14-SSOP	.60	.45	.38
74HCT02N,652	568-1501-5-ND	Quad 2-Input NOR Gate	14-Dip	.54	.36	.30
74HCT03D,653	568-4575-1-ND	Quad 2-Input NAND Gate	14-SOIC	.58	.41	.35
74HCT03D,653	568-4575-2-ND	Quad 2-Input NAND Gate	14-SOIC	407.50/2,500		
74HCT03DB,112	568-2759-5-ND	Quad 2-Input NAND Gate	14-SSOP	.49	.36	.31
74HCT03PW,112	568-2760-5-ND	Quad 2-Input NAND Gate	14-TSSOP	.52	.39	.34
74HCT04PW,118	568-4576-1-ND	Hex Inverter	14-TSSOP	.61	.36	.29
74HCT04PW,118	568-4576-2-ND	Hex Inverter	14-TSSOP	260.00/2,500		
74HCT04BQ,115	568-2761-1-ND	Hex Inverter	14-DHVQFN	.71	.56	.49
74HCT04D,652	568-3970-5-ND	Hex Inverter	14-SOIC	.50	.30	.24
74HCT04D,653	568-1502-1-ND	Hex Inverter	14-SOIC	.56	.33	.27
74HCT04D,653	568-1502-2-ND	Hex Inverter	14-SOIC	237.50/2,500		
74HCT04N,652	568-1503-5-ND	Hex Inverter	14-Dip	.51	.34	.28
74HCT08D,652	568-4994-ND	Quad 2-Input AND Gate ***NEW!***	14-SOIC	.48	.28	.22
74HCT08D,653	568-1504-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.33	.27
74HCT08D,653	568-1504-2-ND	Quad 2-Input AND Gate	14-SOIC	237.50/2,500		
74HCT08N,652	568-1505-5-ND	Quad 2-Input AND Gate	14-Dip	.52	.35	.28
74HCT10PW,112	568-2767-5-ND	Triple 3-Input NAND Gate	14-TSSOP	.52	.39	.34
74HCT11DB,112	568-2770-5-ND	Triple 3-Input AND Gate	14-SSOP	.49	.36	.31
74HCT11PW,112	568-2771-5-ND	Triple 3-Input AND Gate	14-TSSOP	.52	.39	.34
74HCT14BQ,115	568-2778-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.89	.69	.61
74HCT14BQ,115	568-2778-2-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	879.00/3,000		
74HCT14D,652	568-3971-5-ND	Hex Inverting Schmitt Trigger	14-SOIC	.50	.30	.24
74HCT14D,653	568-1515-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.56	.33	.27
74HCT14D,653	568-1515-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	237.50/2,500		
74HCT14N,652	568-1516-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.51	.34	.28
74HCT14PW,118	568-4480-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.61	.36	.29
74HCT14PW,118	568-4480-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP	260.00/2,500		
74HCT20DB,112	568-2801-5-ND	Dual 4-Input NAND Gate	14-SSOP	.60	.45	.38
74HCT20N,652	568-4583-5-ND	Dual 4-Input NAND Gate	14-Dip	.52	.35	.28
74HCT27D,652	568-4586-5-ND	Triple 3-Input NOR Gate	14-SOIC	.50	.30	.24
74HCT27DB,112	568-2817-5-ND	Triple 3-Input NOR Gate	14-SSOP	.65	.48	.42
74HCT32D,652	568-2823-5-ND	Quad 2-Input OR Gate	14-SOIC	.50	.30	.24
74HCT32D,653	568-1536-1-ND	Quad 2-Input OR Gate	14-SOIC	.56	.33	.27
74HCT32D,653	568-1536-2-ND	Quad 2-Input OR Gate	14-SOIC	237.50/2,500		
74HCT32N,652	568-1537-5-ND	Quad 2-Input OR Gate	14-Dip	.51	.34	.28
74HCT42D,652	568-2870-5-ND	BCD to Decimal Decoder	16-SOIC	1.03	.83	.73
74HCT74BQ,115	568-2905-1-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	.89	.69	.61
74HCT74BQ,115	568-2905-2-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	879.00/3,000		
74HCT74D,652	568-4998-ND	Dual D-Type Flip Flop with Set and Reset Positive-Edge-Triggered ***NEW!***	14-SOIC	.50	.30	.24
74HCT74D,653	568-1565-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.56	.33	.27
74HCT74D,653	568-1565-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	237.50/2,500		
74HCT74N,652	568-1566-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-Dip	.45	.30	.25
74HCT74PW,118	568-4595-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.61	.36	.29
74HCT74PW,118	568-4595-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	260.00/2,500		
74HCT85DB,112	568-2911-5-ND	4-Bit Magnitude Comparator	16-SSOP	.84	.66	.57
74HCT86D,652	568-2912-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.50	.30	.24
74HCT86N,652	568-1569-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.44	.33	.28
74HCT93D,112	568-2919-5-ND	4-Bit Binary Ripple Counter	14-SOIC	.88	.71	.62
74HCT107D,652	568-2763-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SOIC	.57	.42	.36
74HCT109D,653	568-4577-1-ND	Dual JK Flip-Flop with Set and Reset, Positive-Edge-Triggered	16-SOIC	.51	.36	.31
74HCT109D,653	568-4577-2-ND	Dual JK Flip-Flop with Set and Reset, Positive-Edge-Triggered	16-SOIC	362.50/2,500		
74HCT112D,652	568-1506-5-ND	Dual JK Flip-Flop with Set and Reset, Negative-Edge-Triggered	16-SOIC	.55	.43	.37
74HCT112DB,112	568-2768-5-ND	Dual JK Flip-Flop with Set and Reset Negative-Edge-Triggered	16-SSOP	.67	.53	.46
74HCT112PW,112	568-2769-5-ND	Dual JK Flip-Flop with Set and Reset Negative-Edge-Triggered	16-TSSOP	.55	.43	.37
74HCT123D,652	568-1507-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.33	.27
74HCT123DB,112	568-2772-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SSOP	1.03	.83	.73
74HCT123N,652	568-1508-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.53	.39	.34
74HCT123PW,112	568-2773-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-TSSOP	.74	.58	.50
74HCT125D,652	568-4995-ND	Tri-State Quad Buffer/Line Driver ***NEW!***	14-SOICN	.39	.26	.21
74HCT125D,653	568-1509-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.44	.29	.24
74HCT125D,653	568-1509-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	247.50/2,500		
74HCT125N,652	568-1510-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.44	.33	.28
74HCT125PW,118	568-4578-1-ND	Tri-St. Quad Buffer/Line Driver	14-TSSOP	.54	.36	.29
74HCT125PW,118	568-4578-2-ND	Tri-St. Quad Buffer/Line Driver	14-TSSOP	305.00/2,500		
74HCT126D,653	568-4579-1-ND	Tri-St. Quad Buffer/Line Driver	14-SOIC	.51	.36	.31
74HCT126D,653	568-4579-2-ND	Tri-St. Quad Buffer/Line Driver	14-SOIC	357.50/2,500		
74HCT132D,652	568-2774-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.45	.30	.25
74HCT132DB,112	568-2775-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SSOP	.67	.53	.46
74HCT132N,652	568-1511-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.36	.27	.23
74HCT138D,653	568-1512-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.50	.33	.27
74HCT138D,653	568-1512-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	285.00/2,500		
74HCT138N,652	568-1513-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.44	.33	.28
74HCT139D,652	568-2776-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-SOIC	.45	.30	.25
74HCT139N,652	568-1514-5-ND	Dual 2-to-4 Line Decoder/Demultiplexer	16-Dip	.36	.24	.20
74HCT147D,652	568-2777-5-ND	10-to-4 Line Priority Encoder	16-SOIC	1.03	.83	.73
74HCT151D,652	568-2779-5-ND	8-Input Multiplexer	16-SOIC	.44	.33	.29
74HCT151PW,112	568-2781-5-ND	8-Input Multiplexer	16-TSSOP	.72	.56	.49
74HCT153D,652	568-1517-5-ND	Dual 4-Input Multiplexer	16-SOIC	.53	.39	.34
74HCT153PW,112	568-2783-5-ND	Dual 4-Input Multiplexer	16-TSSOP	.72	.56	.49
74HCT154D,653	568-4580-1-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	1.79	1.41	1.27
74HCT154D,653	568-4580-2-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	705.00/1,000		
74HCT154DB,112	568-2784-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SSOP	1.89	1.53	1.38
74HCT154N,652	568-1518-5-ND	4-to-16 Line Decoder/Demultiplexer	24-Dip	1.25	1.00	.88
74HCT154PW	568-2785-5-ND	4-to-16 Line Decoder/Demultiplexer	24-TSSOP	1.73	1.39	1.22
74HCT157D,652	568-2786-5-ND	Quad 2-Input Multiplexer	16-SOIC	.47	.35	.30
74HCT157DB,112	568-2787-5-ND	Quad 2-Input Multiplexer	16-SSOP	.84	.66	.57
74HCT161DB,112	568-2788-5-ND	Presettable Synchronous 4-Bit Binary Counter Asynchronous Reset	16-SSOP	.84	.66	.57
74HCT164D,652	568-2791-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.44	.33	.28
74HCT164DB,112	568-2792-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SSOP	.78	.63	.55
74HCT164N,652	568-1520-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.61	.48	.42
74HCT165D,652	568-1521-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.66	.49	.42
74HCT165DB,112	568-2793-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.97	.76	.66
74HCT165N,652	568-1522-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.49	.39	.34
74HCT165PW,118	568-4581-1-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-TSSOP	.84	.65	.57
74HCT165PW,118	568-4581-2-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-TSSOP	690.00/2,500		
74HCT166DB,112	568-2794-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.66	.57
74HCT173DB,112	568-2795-5-ND	Tri-State Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SSOP	.93	.72	.63
74HCT174D,652	568-2796-5-ND	Hex D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-SOIC	.52	.39	.33
74HCT174N,652	568-1523-5-ND	Hex D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.61	.48	.42
74HCT175D,652	568-1524-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-SOIC	.66	.49	.42
74HCT175N,652	568-1525-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.49	.39	.34
74HCT175PW,112	568-2798-5-ND	Quad D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-TSSOP	.80	.62	.54
74HCT193D,652	568-1526-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOIC	.89	.70	.61
74HCT221D,112	568-2802-5-ND	Dual Non-Retriggerable Monostable Multivibrator with Reset	16-SOIC	.84	.66	.57
74HCT221DB,112	568-2803-5-ND	Dual Non-Retriggerable Monostable Multivibrator with Reset	16-SSOP	1.11	.89	.78
74HCT238D,652	568-2804-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.68	.50	.43
74HCT238DB,112	568-2805-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	.92	.74	.65
74HCT238PW,112	568-2806-5-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	.88	.69	.60
74HCT240D,652	568-4481-5-ND	Tri-St. Octal Buffer/Line Driver, Inverting	20-SOIC	.54	.36	.30
74HCT240DB,112	568-2807-5-ND	Tri-St. Octal Buffer/Line Driver, Inverting	20-SSOP	.80	.62	.54
74HCT240N,652	568-1527-5-ND	Tri-St. Octal Buffer/Line Driver, Inverting	20-Dip	.48	.36	.31
74HCT241D,653	568-4584-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.79	.62	.54
74HCT241D,653	568-4584-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	522.00/2,000		
74HCT241DB,112	568-2808-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.62	.54
74HCT244D,652	568-3972-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.54	.36	.30
74HCT244D,653	568-1528-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.40	.33
74HCT244D,653	568-1528-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	274.00/2,000		
74HCT244N,652	568-1529-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.48	.35	.30
74HCT245D,652	568-3973-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.37	.30
74HCT245D,653	568-1530-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.40	.33
74HCT245D,653	568-1530-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	280.00/2,000		
74HCT245N,652	568-1531-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.60	.45	.38
74HCT245PW,112	568-2809-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.57	.38	.31
74HCT251D,652	568-4585-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	.55	.41	.35
74HCT251DB,112	568-2810-5-ND	Tri-State 8-Input Multiplexer	16-SSOP	.62	.48	.42

NXP DigiReel® (Cont.) DIGITAL LOGIC
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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT251PW,112	568-2811-5-ND	Tri-State 8-Input Multiplexer	16-TSSOP	.80	.62	.54
74HCT253DB,112	568-2812-5-ND	Tri-State Dual 4-Input Multiplexer	16-SSOP	.76	.59	.52
74HCT259D,653	568-1532-1-ND	8-Bit Addressable Latch	16-SOIC	.60	.42	.36
74HCT259D,653	568-1532-2-ND	8-Bit Addressable Latch	16-SOIC	422.50/2,500		
74HCT259N,652	568-1533-5-ND	8-Bit Addressable Latch	16-Dip	.47	.35	.30
74HCT259PW,112	568-2816-5-ND	8-Bit Addressable Latch	16-TSSOP	.80	.62	.54
74HCT273D,652	568-3974-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.54	.36	.30
74HCT273D,653	568-1534-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.60	.40	.33
74HCT273D,653	568-1534-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	274.00/2,000		
74HCT273N,652	568-1535-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.55	.41	.35
74HCT280D,652	568-2818-5-ND	9-Bit Odd/Even Parity Generator	14-SOIC	.97	.76	.66
74HCT365D,652	568-2824-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.55	.41	.35
74HCT365DB,112	568-2825-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.84	.66	.57
74HCT365N,652	568-4587-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.61	.48	.42
74HCT366D,652	568-2826-5-ND	Tri-St. Hex Buffer/Line Driver, Inverting	16-SOIC	.99	.77	.67
74HCT367D,652	568-1538-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.60	.45	.38
74HCT367N,652	568-1539-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.71	.56	.49
74HCT368D,652	568-4588-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.60	.45	.38
74HCT373D,653	568-1540-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.62	.41	.34
74HCT373D,653	568-1540-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	280.00/2,000		
74HCT373DB,112	568-2831-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.62	.54
74HCT373N,652	568-1541-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.65	.48	.41
74HCT374D,652	568-1542-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.55	.37	.30
74HCT374N,652	568-1543-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.65	.48	.41
74HCT377D,652	568-4482-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SOIC	.55	.41	.35
74HCT377DB,112	568-2832-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SSOP	.79	.61	.54
74HCT377PW,112	568-2833-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-TSSOP	.80	.62	.54
74HCT390DB,112	568-2834-5-ND	Dual Decade Ripple Counter	16-SSOP	.93	.72	.63
74HCT393BQ,115	568-2835-1-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	.57	.45	.39
74HCT393D,652	568-1568-5-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.48	.35	.30
74HCT393DB,112	568-2836-5-ND	Dual 4-Bit Binary Ripple Counter	14-SSOP	.80	.62	.54
74HCT393N,652	568-1545-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.55	.43	.37
74HCT423DB,112	568-2869-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SSOP	.93	.72	.63
74HCT540D,652	568-2884-5-ND	Tri-St. Octal Buffer/Line/Driver, Inverting	20-SOIC	.66	.49	.42
74HCT540DB,112	568-2885-5-ND	Tri-St. Octal Buffer/Line/Driver, Inverting	20-SSOP	.99	.80	.70
74HCT541D,652	568-1553-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.54	.36	.30
74HCT541N,652	568-1554-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.52	.39	.33
74HCT541PW,118	568-4592-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.64	.42	.35
74HCT541PW,118	568-4592-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	362.50/2,500		
74HCT563DB,112	568-2888-5-ND	Octal D-Type Transparent Latch	20-SSOP	.88	.71	.62
74HCT573BQ,115	568-2889-1-ND	Tri-St. Octal D-Type Transparent Latch	20-DHVQFN	.94	.75	.67
74HCT573D,652	568-3975-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.55	.37	.30
74HCT573D,653	568-1555-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.40	.33
74HCT573D,653	568-1555-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	280.00/2,000		
74HCT573N,652	568-1556-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.65	.48	.41
74HCT574D,652	568-3976-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.55	.37	.30
74HCT574D,653	568-1557-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.84	.65	.57
74HCT574D,653	568-1557-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	280.00/2,000		
74HCT574DB,112	568-2890-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SSOP	.80	.62	.54
74HCT574N,652	568-1558-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.65	.48	.41
74HCT594D,112	568-2891-5-ND	8-Bit Shift Register	16-SOIC	1.74	1.39	1.22
74HCT595BQ,115	568-2892-1-ND	8-Bit Serial-In, Serial or Parallel- Out Shift Register	16-DHVQFN	1.15	.91	.82
74HCT595BQ,115	568-2892-2-ND	8-Bit Serial-In, Serial or Parallel- Out Shift Register	16-DHVQFN	1272.00/3,000		
74HCT595D,112	568-3977-5-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	.92	.72	.62
74HCT595D,118	568-1559-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	1.01	.79	.69
74HCT595D,118	568-1559-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	832.50/2,500		
74HCT595DB,112	568-2893-5-ND	8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SSOP	1.34	1.08	.95
74HCT595N,112	568-1560-5-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-Dip	.92	.72	.62
74HCT595PW,118	568-1561-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	1.00	.79	.72
74HCT595PW,118	568-1561-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	920.00/2,500		
74HCT597D,652	568-4593-5-ND	8-Bit Shift Register	16-SOIC	.71	.56	.49
74HCT597DB,112	568-2894-5-ND	8-Bit Shift Register	16-SSOP	.92	.74	.65
74HCT640D,653	568-4594-1-ND	Tri-St. Octal Bus Transceiver, Inverting	20-SOIC	1.14	.90	.81
74HCT640D,653	568-4594-2-ND	Tri-St. Octal Bus Transceiver, Inverting	20-SOIC	840.00/2,000		
74HCT640DB,112	568-2896-5-ND	Tri-St. Octal Bus Transceiver, Inverting	20-SSOP	1.11	.89	.78
74HCT670DB,112	568-2898-5-ND	Tri-State 4 x 4 Register File	16-SSOP	1.29	1.04	.91
74HCT688D,652	568-1563-5-ND	8-Bit Magnitude Comparator	20-SOIC	.61	.48	.42
74HCT688DB,112	568-2899-5-ND	8-Bit Magnitude Comparator	20-SSOP	1.11	.89	.78
74HCT4002DB,112	568-2837-5-ND	Dual 4-Input NOR Gate	14-SSOP	.70	.52	.45
74HCT4002N,112	568-2838-5-ND	Dual 4-Input NOR Gate	14-Dip	.55	.43	.37
74HCT4015D,112	568-2842-5-ND	Dual 4-Bit SIPO Shift Register	16-SOIC	.74	.60	.52
74HCT4015N,112	568-2843-5-ND	Dual 4-Bit SIPO Shift Register	16-Dip	.91	.73	.64
74HCT4016N,112	568-2845-5-ND	Quad Bilateral Switch	14-Dip	.82	.64	.56
74HCT4016N,112	568-2846-5-ND	Johnson Decade Counter	16-SOIC	.82	.64	.56
74HCT4017N,652	568-2847-5-ND	Johnson Decade Counter	16-Dip	.82	.64	.56
74HCT4020D,652	568-4589-5-ND	14-Stage Binary Ripple Counter	16-SOIC	.60	.45	.38
74HCT4020PW,112	568-2849-5-ND	14-Stage Binary Ripple Counter	16-TSSOP	.95	.74	.64
74HCT4040D,652	568-2850-5-ND	12-Stage Binary Ripple Counter	16-SOIC	.70	.52	.45
74HCT4040DB,112	568-2851-5-ND	12-Stage Binary Ripple Counter	16-SSOP	.92	.74	.65
74HCT4040N,652	568-1546-5-ND	12-Stage Binary Ripple Counter	16-Dip	.55	.43	.37
74HCT4040PW,112	568-2852-5-ND	12-Stage Binary Ripple Counter	16-TSSOP	.84	.66	.57
74HCT4046AD,112	568-1547-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.58	.46	.40
74HCT4046ADB,112	568-2853-5-ND	Phase-Locked-Loop with VCO	16-SSOP	1.96	1.58	1.43

NXP DigiReel® (Cont.) DIGITAL LOGIC
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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT4051D,118	568-1548-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.84	.65	.57
74HCT4051D,118	568-1548-2-ND	8-Channel Analog Mux/Demux	16-SOIC	690.00/2,500		
74HCT4051DB,112	568-2854-5-ND	8-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HCT4051PW,112	568-4590-5-ND	8-Ch. Analog Mux/Demux	16-TSSOP	.64	.48	.41
74HCT4052D,112	568-2855-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.52	.39	.33
74HCT4052D,118	568-4997-1-ND	Dual 4-Channel Analog Mux/ Demux ***NEW!***	16-SOIC	.84	.65	.57
74HCT4052D,118	568-4997-2-ND	Dual 4-Channel Analog Mux/ Demux ***NEW!***	16-SOIC	690.00/2,500		
74HCT4052DB,112	568-2856-5-ND	Dual 4-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HCT4053D,112	568-1549-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.54	.36	.30
74HCT4053D,118	568-2254-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.60	.40	.33
74HCT4053D,118	568-2254-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	342.50/2,500		
74HCT4053DB,112	568-2857-5-ND	Triple 2-Channel Analog Mux/Demux	16-SSOP	.88	.69	.60
74HCT4053PW,118	568-4483-1-ND	Triple 2-Ch. Analog Mux/Demux	16-TSSOP	.64	.42	.35
74HCT4053PW,118	568-4483-2-ND	Triple 2-Ch. Analog Mux/Demux	16-TSSOP	362.50/2,500		
74HCT4059D,112	568-2858-5-ND	Programmable Divide-by-N Counter	24-SOIC	3.12	2.51	2.29
74HCT4059N,112	568-1550-5-ND	Programmable Divide-by-N Counter	24-Dip	3.12	2.51	2.29
74HCT4066D,112	568-1551-5-ND	Quad Bilateral Switch	14-SOIC	.47	.32	.26
74HCT4066PW,112	568-1552-5-ND	Quad Bilateral Switch	14-TSSOP	.61	.48	.42
74HCT4067D,112	568-4591-5-ND	16-Ch. Analog Mux/Demux	24-SOIC	2.08	1.68	1.52
74HCT4067DB,112	568-2861-5-ND	16-Channel Analog Mux/Demux	24-SSOP	2.94	2.37	2.14
74HCT4067N,112	568-2862-5-ND	16-Channel Analog Mux/Demux	24-Dip	2.94	2.37	2.14
74HCT4067PW,112	568-2863-5-ND	16-Channel Analog Mux/Demux	24-TSSOP	2.94	2.37	2.14
74HCT4075D,652	568-2864-5-ND	Triple 3-Input OR Gate	14-SOIC	.70	.52	.45
74HCT4075DB,112	568-2865-5-ND	Triple 3-Input OR Gate	14-SSOP	.57	.42	.36
74HCT4094D,112	568-2867-5-ND	8-Stage Shift and Store Bus Register	16-SOIC	.52	.39	.33
74HCT4094DB,112	568-2868-5-ND	8-Stage Shift and Store Bus Register	16-SSOP	1.07	.86	.75
74HCT4094N,112	568-4484-5-ND	8-Stage Shift and Store Bus Register	16-Dip	.67	.53	.46
74HCT4316PW,112	568-2872-5-ND	Quad Bilateral Switch	16-TSSOP	.84	.66	.57
74HCT4351D,112	568-2873-5-ND	8-Ch. Analog Mux/ Demux with Latch	20-SOIC	.98	.79	.69
74HCT4351DB,112	568-2874-5-ND	8-Ch. Analog Mux/ Demux with Latch	20-SSOP	1.03	.83	.73
74HCT4511D,652	568-2875-5-ND	BCD to 7 Segment Latch/Decoder/ Drivr.	16-SOIC	.92	.74	.65
74HCT4514D,652	568-2876-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	1.89	1.53	1.38
74HCT4514PW,112	568-2878-5-ND	4-to-16 Line Decoder/Demux	24-TSSOP	1.89	1.53	1.38
74HCT4515D,652	568-2879-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	2.23	1.80	1.62
74HCT4538D,112	568-2881-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SOIC	.67	.49	.42
74HCT4538PW,112	568-2883-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-TSSOP	1.01	.82	.71
74HCT5555D,112	568-2886-5-ND	Prog. Delay Timer with Oscillator	16-SOIC	2.15	1.74	1.57
74HCT5555N,112	568-2887-5-ND	Prog. Delay Timer with Oscillator	16-Dip	2.15	1.74	1.57
74HCT6323AD,112	568-2895-5-ND	Tri-St. Prog. Ripple Counter w/Oscillator	8-SOIC	1.30	1.05	.92
74HCT7030D,112	568-2900-5-ND	Tri-State 9-Bit x 64-Word FIFO Register	28-SOIC	8.02	6.58	5.94
74HCT7273D,112	568-2902-5-ND	Octal D-Type F/F with Reset, Positive-Edge-Trigger, OD Output	20-SOIC	.87	.70	.61
74HCT7403N,112	568-2904-5-ND	Tri-State 4-Bit x 64-Word FIFO Register	16-Dip	2.98	2.40	2.18
74HCT7540D,112	568-2906-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-SOIC	2.00	1.62	1.45
74HCT7540N,112	568-2907-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-Dip	2.00	1.62	1.45
74HCT7540N,112	568-1567-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver	20-SOIC	2.00	1.62	1.45
74HCT7541N	568-2908-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver	20-Dip	1.63	1.32	1.19
74HCT7731D,112	568-2909-5-ND	Quad 64-Bit Static Shift Register	16-SOIC	4.82	3.88	3.53
74HCT9046AD,112	568-3978-5-ND	PLL with Band Gap Controlled VCO	16-SOIC	2.76	2.23	2.01
74HCT9046AD,118	568-1570-1-ND	PLL with Band Gap Controlled VCO	16-SOIC	3.12	2.41	2.19
74HCT9046AD,118	568-1570-2-ND	PLL with Band Gap Controlled VCO	16-SOIC	3010.00/2,500		
74HCT9046AN,112	568-2913-5-ND	PLL with Band Gap Controlled VCO	16-Dip	2.76	2.23	2.01
74HCT9046APW,112	568-2914-5-ND	PLL with Band Gap Controlled VCO	16-TSSOP	2.76	2.23	2.01
74HCT9114D,112	568-2915-5-ND	Nine Wide Schmitt Trigger Buffer	20-SOIC	1.65	1.34	1.20
74HCT9114N,112	568-2916-5-ND	Nine Wide Schmitt Trigger Buffer	20-Dip	1.35	1.09	.98
74HCT9115D,112	568-2917-5-ND	Nine Wide Schmitt Trigger Buffer	20-SOIC	1.33	1.07	.93
74HCT40105DB,112	568-2840-5-ND	4-Bit x 16-Word FIFO Register	16-SSOP	1.26	1.01	.89
74HCT40105N,112	568-2841-5-ND	4-Bit x 16-Word FIFO Register	16-Dip	1.26	1.01	.89
74HCT1G125GW,125	568-4582-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.47	.27	.20
74HCT1G125GW,125	568-4582-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	201.00/3,000		
74HCT2G125DP,125	568-4285-1-ND	Tri-State Dual Buffer/Line Driver	8-TSSOP	.62	.41	.34
74HCT2G125DP,125	568-4285-2-ND	Tri-State Dual Buffer/Line Driver	8-TSSOP	420.00/3,000		
HCU Family						
74HCU04D,653	568-1571-1-ND	Hex Inverter	14-SOIC	.56	.33	.27
74HCU04D,653	568-1571-2-ND	Hex Inverter	14-SOIC	237.50/2,500		
74HCU04PW,118	568-4485-1-ND	Hex Inverter	14-TSSOP	.61	.36	.29
74HCU04PW,118	568-4485-2-ND	Hex Inverter	14-TSSOP	260.00/2,500		
LV Family						
74LV00N,112	568-2920-5-ND	Quad 2-Input NAND Gate	14-Dip	.60	.45	.38
74LV04N,112	568-2921-5-ND	Hex Inverter	14-Dip	.60	.45	.38
74LV08N,112	568-2922-5-ND	Quad 2-Input AND Gate	14-Dip	.60	.45	.38
74LV14D,112	568-2928-5-ND	Hex Inverting Schmitt-Trigger	14-SOIC	.44	.29	.24
74LV14N,112	568-2929-5-ND	Hex Inverting Schmitt-Trigger	14-Dip	.70	.52	.45
74LV14PW,118	568-4598-1-ND	Hex Inverting Schmitt- Trigger	14-TSSOP	.53	.35	.29
74LV14PW,118	568-4598-2-ND	Hex Inverting Schmitt- Trigger	14-TSSOP	300.00/2,500		
74LV27D,112	568-2952-5-ND	Triple 3-Input NOR Gate	14-SOIC	.69	.54	.47
74LV32N,112	568-2953-5-ND	Quad 2-Input OR Gate	14-Dip	.60	.45	.38
74LV74N,112	568-2988-5-ND	Dual D-Type F/F with Set and Reset, Positive-Edge Trigger	14-Dip	.72	.56	.49
74LV74PW,112	568-4602-5-ND	Dual D-Type F/F with Set and Reset, Positive-Edge Trigger	14-TSSOP	.55	.37	.30
74LV86N,112	568-2989-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.72	.56	.49
74LV123N,112	568-2923-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.84	.66	.57
74LV125N,112	568-2924-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.80	.63	.55
74LV125PW,112	568-4596-5-ND	Tri-S. Quad Buffer/Line Driver	14-TSSOP	.58	.39	.32
74LV132PW,118	568-4597-1-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.66	.47	.40
74LV132PW,118	568-4597-2-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	465.00/2,500		
74LV138N,112	568-2926-5-ND	3-to-8 Line Decoder/Demultiplexer	16-Dip	.80	.62	.54
74LV153D,112	568-2930-5-ND	Dual 4-Input Multiplexer	16-SOIC	.76	.59	.52
74LV153DB,112	568-2931-5-ND	Dual 4-Input Multiplexer	16-SSOP	.76	.59	.52
74LV153PW,112	568-2933-5-ND	Dual 4-Input Multiplexer	16-TSSOP	.76	.59	.52
74LV165N,112	568-2935-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.75	.60	.53
74LV241D,112	568-2937-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.95	.77	.67
74LV241N,112	568-2939-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.78	.63	.55
74LV241PW,112	568-2940-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.95	.77	.67
74LV244N,112	568-2941-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.93	.72	.63

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(Continued)

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LV245N,112	568-2942-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.75	.59	.51
74LV251D,112	568-2943-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	1.04	.84	.73
74LV251DB,112	568-2944-5-ND	Tri-State 8-Input Multiplexer	16-SSOP	1.08	.87	.76
74LV251N,112	568-2945-5-ND	Tri-State 8-Input Multiplexer	16-Dip	1.04	.84	.73
74LV251PW,112	568-2946-5-ND	Tri-State 8-Input Multiplexer	16-TSSOP	1.13	.91	.79
74LV259D,112	568-2947-5-ND	8-Bit Addressable Latch	16-SOIC	1.00	.80	.70
74LV259DB,112	568-2948-5-ND	8-Bit Addressable Latch	16-SSOP	1.00	.80	.70
74LV259PW,112	568-2950-5-ND	8-Bit Addressable Latch	16-TSSOP	1.00	.80	.70
74LV365D,112	568-2954-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.88	.71	.62
74LV373N,112	568-2959-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.93	.72	.63
74LV374N,112	568-2960-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.93	.72	.63
74LV377D,112	568-2961-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SOIC	1.00	.80	.70
74LV377DB,112	568-2962-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SSOP	1.13	.91	.79
74LV393D,112	568-2965-5-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.95	.77	.67
74LV393PW,112	568-2968-5-ND	Dual 4-Bit Binary Ripple Counter	14-TSSOP	1.04	.84	.73
74LV541PW,112	568-4601-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	1.02	.82	.72
74LV595D,112	568-4487-5-ND	8-Bit Serial-In/Serial or Parallel-Out Shift Register	16-SOIC	.92	.72	.63
74LV595PW,118	568-4488-1-ND	8-Bit Serial-In/Serial or Parallel-Out Shift Register	16-TSSOP	1.03	.80	.71
74LV595PW,118	568-4488-2-ND	8-Bit Serial-In/Serial or Parallel-Out Shift Register	16-TSSOP	852.50/2,500		
74LV4020D,112	568-2969-5-ND	14-Stage Binary Ripple Counter	16-SOIC	1.30	1.05	.92
74LV4020PW,112	568-2972-5-ND	14-Stage Binary Ripple Counter	16-TSSOP	1.30	1.05	.92
74LV4051PW,118	568-4486-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.74	.52	.45
74LV4051PW,118	568-4486-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	522.50/2,500		
74LV4052PW,118	568-4599-1-ND	Dual 4-Channel Analog Mux/ Demux	16-TSSOP	.95	.75	.68
74LV4052PW,118	568-4599-2-ND	Dual 4-Channel Analog Mux/ Demux	16-TSSOP	875.00/2,500		
74LV4060D,112	568-1572-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	1.26	1.01	.88
74LV4060DB,112	568-2973-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SSOP	1.34	1.08	.95
74LV4060PW,112	568-2975-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-TSSOP	1.39	1.11	.97
74LV4066D,112	568-4600-5-ND	Quad Bilateral Switch	14-SOIC	.67	.53	.46
74LV4094D,112	568-2976-5-ND	8-Stage Shift and Store Bus Register	16-SOIC	1.26	1.01	.88
74LV4094DB,112	568-2977-5-ND	8-Stage Shift and Store Bus Register	16-SSOP	1.34	1.08	.95
74LV4094PW,112	568-2979-5-ND	8-Stage Shift and Store Bus Register	16-TSSOP	1.39	1.11	.97
LVC Family						
74LVC00AD,118	568-2270-1-ND	Quad 2-Input NAND Gate	14-SOIC	.53	.31	.25
74LVC00AD,118	568-2270-2-ND	Quad 2-Input NAND Gate	14-SOIC	225.00/2,500		
74LVC00APW,118	568-2282-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.56	.33	.27
74LVC00APW,118	568-2282-2-ND	Quad 2-Input NAND Gate	14-TSSOP	237.50/2,500		
74LVC02ABQ,115	568-2990-1-ND	Quad 2-Input NOR Gate	14-DHVQFN	.72	.56	.50
74LVC02ABQ,115	568-2990-2-ND	Quad 2-Input NOR Gate	14-DHVQFN	714.00/3,000		
74LVC02AD,118	568-4489-1-ND	Quad 2-Input NOR Gate	14-SOIC	.53	.31	.25
74LVC02AD,118	568-4489-2-ND	Quad 2-Input NOR Gate	14-SOIC	225.00/2,500		
74LVC02APW,118	568-2271-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.56	.33	.27
74LVC02APW,118	568-2271-2-ND	Quad 2-Input NOR Gate	14-TSSOP	237.50/2,500		
74LVC04ABQ,115	568-2991-1-ND	Hex Inverter	14-DHVQFN	.89	.69	.61
74LVC04ABQ,115	568-2991-2-ND	Hex Inverter	14-DHVQFN	879.00/3,000		
74LVC04AD,112	568-1573-5-ND	Hex Inverter	14-SOIC	.48	.28	.22
74LVC04AD,118	568-2283-1-ND	Hex Inverter	14-SOIC	.53	.31	.25
74LVC04AD,118	568-2283-2-ND	Hex Inverter	14-SOIC	225.00/2,500		
74LVC04APW,118	568-1574-1-ND	Hex Inverter	14-TSSOP	.56	.33	.27
74LVC04APW,118	568-1574-2-ND	Hex Inverter	14-TSSOP	237.50/2,500		
74LVC06AD,118	568-2284-1-ND	Hex Inverter with OD Output	14-SOIC	.57	.34	.27
74LVC06AD,118	568-2284-2-ND	Hex Inverter with OD Output	14-SOIC	242.50/2,500		
74LVC06APW,118	568-4490-1-ND	Hex Inverter with OD Output	14-TSSOP	.63	.37	.30
74LVC06APW,118	568-4490-2-ND	Hex Inverter with OD Output	14-TSSOP	265.00/2,500		
74LVC07ABQ,115	568-2992-1-ND	Hex Buffer with OD Output	14-DHVQFN	.89	.69	.61
74LVC07ABQ,115	568-2992-2-ND	Hex Buffer with OD Output	14-DHVQFN	879.00/3,000		
74LVC07AD,118	568-2285-1-ND	Hex Buffer with OD Output	14-SOIC	.57	.34	.27
74LVC07AD,118	568-2285-2-ND	Hex Buffer with OD Output	14-SOIC	242.50/2,500		
74LVC07APW,118	568-2286-1-ND	Hex Buffer with OD Output	14-TSSOP	.53	.31	.25
74LVC07APW,118	568-2286-2-ND	Hex Buffer with OD Output	14-TSSOP	225.00/2,500		
74LVC08ABQ,115	568-2993-1-ND	Quad 2-Input AND Gate	14-DHVQFN	.89	.69	.61
74LVC08ABQ,115	568-2993-2-ND	Quad 2-Input AND Gate	14-DHVQFN	879.00/3,000		
74LVC08AD,118	568-2273-1-ND	Quad 2-Input AND Gate	14-SOIC	.53	.31	.25
74LVC08AD,118	568-2273-2-ND	Quad 2-Input AND Gate	14-SOIC	225.00/2,500		
74LVC08APW,112	568-1575-5-ND	Quad 2-Input AND Gate	14-TSSOP	.50	.30	.24
74LVC08APW,118	568-4999-1-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP	.56	.33	.27
74LVC08APW,118	568-4999-2-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP	237.50/2,500		
74LVC10ABQ,115	568-2994-1-ND	Triple 3-Input NAND Gate	14-DHVQFN	.84	.66	.58
74LVC11PW,112	568-4603-5-ND	Triple 3-Input AND Gate	14-TSSOP	.50	.30	.24
74LVC14ABQ,115	568-3001-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-DHVQFN	.89	.69	.61
74LVC14ABQ,115	568-3001-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-DHVQFN	879.00/3,000		
74LVC14AD,112	568-5000-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input ***NEW!***	14-SOIC	.48	.28	.22
74LVC14AD,118	568-1578-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC	.53	.31	.25
74LVC14AD,118	568-1578-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC	225.00/2,500		
74LVC14ADB,118	568-2290-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP	.53	.31	.25
74LVC14ADB,118	568-2290-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP	180.00/2,000		
74LVC14APW,118	568-2269-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.56	.33	.27
74LVC14APW,118	568-2269-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP	237.50/2,500		
74LVC27D,112	568-3013-5-ND	Triple 3-Input NOR Gate	14-SOIC	.60	.45	.38
74LVC27PW,112	568-3015-5-ND	Triple 3-Input NOR Gate	14-TSSOP	.60	.45	.38
74LVC32ABQ,115	568-3017-1-ND	Quad 2-Input OR Gate	14-DHVQFN	.89	.69	.61
74LVC32ABQ,115	568-3017-2-ND	Quad 2-Input OR Gate	14-DHVQFN	879.00/3,000		
74LVC32AD,118	568-2303-1-ND	Quad 2-Input OR Gate	14-SOIC	.53	.31	.25
74LVC32AD,118	568-2303-2-ND	Quad 2-Input OR Gate	14-SOIC	225.00/2,500		
74LVC32APW,118	568-2276-1-ND	Quad 2-Input OR Gate	14-TSSOP	.56	.33	.27
74LVC32APW,118	568-2276-2-ND	Quad 2-Input OR Gate	14-TSSOP	237.50/2,500		
74LVC74AD,118	568-2305-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.44	.29	.24
74LVC74AD,118	568-2305-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	247.50/2,500		
74LVC74APW,112	568-1588-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.52	.31	.25
74LVC74APW,118	568-2306-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.58	.35	.28
74LVC74APW,118	568-2306-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	247.50/2,500		
74LVC86AD,118	568-2307-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.44	.29	.24
74LVC86AD,118	568-2307-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	247.50/2,500		
74LVC86APW,112	568-4504-5-ND	Quad 2-In. Exclusive OR Gate	14-TSSOP	.42	.28	.23
74LVC125ABQ,115	568-2995-1-ND	Tri-State Ouad Buffer/Line Driver	14-DHVQFN	1.04	.81	.71
74LVC125ABQ,115	568-2995-2-ND	Tri-State Ouad Buffer/Line Driver	14-DHVQFN	1026.00/3,000		
74LVC125AD,118	568-2287-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.54	.32	.26
74LVC125AD,118	568-2287-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	230.00/2,500		
74LVC125APW,112	568-1576-5-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.41	.28	.23
74LVC125APW,118	568-2288-1-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.46	.30	.25
74LVC125APW,118	568-2288-2-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	260.00/2,500		
74LVC126ABQ,115	568-2996-1-ND	Tri-State Quad Buffer/Line Driver	14-DHVQFN	.84	.66	.58
74LVC138AD,112	568-1577-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.47	.31	.26
74LVC138AD,118	568-2289-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.52	.35	.29
74LVC138AD,118	568-2289-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	297.50/2,500		
74LVC138APW,118	568-4491-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-TSSOP	.56	.37	.31
74LVC138APW,118	568-4491-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-TSSOP	317.50/2,500		
74LVC139BQ,115	568-3000-1-ND	Dual 2-to-4 Line Decoder/Demux	16-DHVQFN	1.04	.81	.71
74LVC139BQ,115	568-3000-2-ND	Dual 2-to-4 Line Decoder/Demux	16-DHVQFN	1026.00/3,000		
74LVC139PW,118	568-4492-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.56	.37	.31
74LVC139PW,118	568-4492-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	317.50/2,500		
74LVC157ABQ-G	568-3002-1-ND	Quad 2-Input Multiplexer	16-DHVQFN	1.04	.81	.71
74LVC157ABQ-G	568-3002-2-ND	Quad 2-Input Multiplexer	16-DHVQFN	1026.00/3,000		
74LVC157APW,118	568-4493-1-ND	Quad 2-Input Multiplexer	16-TSSOP	.45	.30	.25
74LVC157APW,118	568-4493-2-ND	Quad 2-Input Multiplexer	16-TSSOP	255.00/2,500		
74LVC163PW,118	568-2293-1-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP	.73	.57	.50
74LVC163PW,118	568-2293-2-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP	597.50/2,500		
74LVC244AD,112	568-1581-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.50	.34	.27
74LVC244AD,118	568-2299-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.56	.37	.31
74LVC244AD,118	568-2299-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	254.00/2,000		
74LVC244ADB,112	568-1582-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SSOP	.50	.34	.27
74LVC244APW,112	568-5001-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-TSSOP	.50	.34	.27
74LVC244APW,118	568-1583-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP	.56	.37	.31
74LVC244APW,118	568-1583-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP	317.50/2,500		
74LVC245ABQ,115	568-3012-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.15	.91	.82
74LVC245ABQ,115	568-3012-2-ND	Tri-State Octal Bus Transceiver	20-QFN	1272.00/3,000		
74LVC245AD,118	568-2300-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.56	.37	.31
74LVC245AD,118	568-2300-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	264.00/2,000		
74LVC245ADB,118	568-2274-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.56	.37	.31
74LVC245ADB,118	568-2274-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	139.00/1,000		
74LVC245APW,112	568-1584-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.34	.27
74LVC245APW,118	568-2301-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.56	.37	.31
74LVC245APW,118	568-2301-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	317.50/2,500		
74LVC257APW,118	568-4496-1-ND	Tri-State Quad 2-Input Mux	16-TSSOP	.56	.37	.31
74LVC257APW,118	568-4496-2-ND	Tri-State Quad 2-Input Mux	16-TSSOP	317.50/2,500		
74LVC273D,118	568-4616-1-ND	Octal D-Type Flip-Flop	20-SOIC	.56	.40	.34
74LVC273D,118	568-4616-2-ND	Octal D-Type Flip-Flop	20-SOIC	316.00/2,000		
74LVC273PW,112	568-2302-5-ND	Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.31
74LVC273PW,118	568-2268-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.56	.40	.34
74LVC273PW,118	568-2268-2-ND	Octal D-Type Flip-Flop	20-TSSOP	395.00/2,500		
74LVC373AD	568-4619-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.50	.34	.27
74LVC373APW,118	568-2304-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.56	.37	.31
74LVC373APW,118	568-2304-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	317.50/2,500		
74LVC374AD,118	568-4498-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.56	.37	.31
74LVC374AD,118	568-4498-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	264.00/2,000		
74LVC374APW,118	568-4499-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	.56	.37	.31
74LVC374APW,118	568-4499-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	317.50/2,500		
74LVC377PW,118	568-2275-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.77	.60	.53
74LVC377PW,118	568-2275-2-ND	Octal D-Type Flip-Flop	20-TSSOP	635.00/2,500		
74LVC541ADB,112	568-4500-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.52	.39	.33
74LVC541AD,118	568-4501-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.61	.43	.37
74LVC541AD,118	568-4501-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	342.00/2,000		
74LVC541APW,112	568-1587-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.55	.41	.35
74LVC573AD,118	568-4620-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.56	.37	.31
74LVC573AD,118	568-4620-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	254.00/2,000		
74LVC573APW,118	568-2272-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.56	.37	.31
74LVC573APW,118	568-2272-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	317.50/2,500		
74LVC574AD,118	568-4621-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.56	.37	.31
74LVC574AD,118	568-4621-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	264.00/2,000		
74LVC574APW,118	568-4502-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	.56	.37	.31
74LVC574APW,118	568-4502-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-TSSOP	317.50/2,500		
74LVC827APW,118	568-4503-1-ND	Tri-State 10-Bit Buffer/Line Driver	24-TSSOP	1.03	.80	.71
74LVC827APW,118	568-4503-2-ND	Tri-State 10-Bit Buffer/Line Driver	24-TSSOP	852.50/2,500		
74LVC2244APW,118	568-4495-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
74LVC2244APW,118	568-4495-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	407.50/2,500		
74LVC2245APW,118	568-4615-1-ND	Tri-State Octal Transciever	20-TSSOP	.77	.54	.47
74LVC2245APW,118	568-4615-2-ND	Tri-State Octal Transciever	20-TSSOP	542.50/2,500		
74LVC4066BQ,115	568-3019-1-ND	Quad Bilateral Switch	14-DHVQFN	1.41	1.12	1.01
74LVC4066BQ,115	568-3019-2-ND	Quad Bilateral Switch	14-DHVQFN	1557.00/3,000		
74LVC4066D,112	568-3020-5-ND	Quad Bilateral Switch	14-SOIC	.81	.63	.55
74LVC4066PW,112	568-3021-5-ND	Quad Bilateral Switch	14-TSSOP	.81	.63	.55
74LVC4245AD,112	568-1585-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-SOIC	1.12	.90	.79

** RoHS Compliant* **★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★** *(Continued)*

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74LVC4245ADB,112	568-3022-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-SSOP	1.12	.90	.79
74LVC4245APW,112	568-1586-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-TSSOP	.96	.75	.65
74LVC4245APW,118	568-5002-1-ND	Tri-State Octal Dual Supply Translating Transceiver ***NEW!***	24-TSSOP	1.06	.82	.72
74LVC4245APW,118	568-5002-2-ND	Tri-State Octal Dual Supply Translating Transceiver ***NEW!***	24-TSSOP	870.00/2,500		
74LVC16244ADGG,118	568-4604-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	.84	.65	.57
74LVC16244ADGG,118	568-4604-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	552.00/2,000		
74LVC16245ADGG,118	568-2292-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.84	.65	.57
74LVC16245ADGG,118	568-2292-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	552.00/2,000		
74LVC16245ADL,112	568-4605-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.76	.59	.52
74LVC16373ADGG,118	568-4606-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-TSSOP	.84	.65	.57
74LVC16373ADGG,118	568-4606-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-TSSOP	552.00/2,000		
74LVC16373ADL,112	568-4607-5-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	.76	.59	.52
74LVC16374ADGG,518	568-4608-1-ND	Tri-State 16-Bit D-Type F/F	48-TSSOP	.84	.65	.57
74LVC16374ADGG,518	568-4608-2-ND	Tri-State 16-Bit D-Type F/F	48-TSSOP	552.00/2,000		
74LVC162244ADGG:51	568-2291-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	.84	.65	.57
74LVC162244ADGG:51	568-2291-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	552.00/2,000		
74LVC162245ADGG,51	568-3003-5-ND	Tri-State 16-Bit Transceiver	48-TSSOP	.76	.59	.52
74LVC1G00GM,115	568-4392-1-ND	Single 2-Input NAND Gate	6-XSON	.58	.41	.35
74LVC1G00GM,115	568-4392-2-ND	Single 2-Input NAND Gate	6-XSON	760.00/5,000		
74LVC1G00GW,125	568-4609-1-ND	Single 2-Input NAND Gate	5-TSSOP	.67	.31	.22
74LVC1G00GW,125	568-4609-2-ND	Single 2-Input NAND Gate	5-TSSOP	189.00/3,000		
74LVC1G02GM,115	568-4393-1-ND	Single 2-Input NOR Gate	6-XSON	.58	.41	.35
74LVC1G02GM,115	568-4393-2-ND	Single 2-Input NOR Gate	6-XSON	760.00/5,000		
74LVC1G02GV,125	568-4834-1-ND	Single 2-Input NOR Gate ***NEW!***	SC-74A	.54	.31	.24
74LVC1G02GV,125	568-4834-2-ND	Single 2-Input NOR Gate ***NEW!***	SC-74A	234.00/3,000		
74LVC1G04GM,115	568-4394-1-ND	Single Inverter	6-XSON	.58	.41	.35
74LVC1G04GM,115	568-4394-2-ND	Single Inverter	6-XSON	760.00/5,000		
74LVC1G04GV,125	568-2294-1-ND	Single Inverter	SOT-753	.67	.31	.22
74LVC1G04GV,125	568-2294-2-ND	Single Inverter	SOT-753	189.00/3,000		
74LVC1G04GW,125	568-1579-1-ND	Single Inverter	UMT-5	.67	.31	.22
74LVC1G04GW,125	568-1579-2-ND	Single Inverter	UMT-5	189.00/3,000		
74LVC1G07GV,125	568-4610-1-ND	Buffer with OD Output	SC-74A	.67	.31	.22
74LVC1G07GV,125	568-4610-2-ND	Buffer with OD Output	SC-74A	189.00/3,000		
74LVC1G07GW,125	568-2295-1-ND	Buffer with OD Output	5-TSSOP	.67	.31	.22
74LVC1G07GW,125	568-2295-2-ND	Buffer with OD Output	5-TSSOP	189.00/3,000		
74LVC1G08GV,125	568-4611-1-ND	Single 2-Input AND Gate	SC-74A	.67	.31	.22
74LVC1G08GV,125	568-4611-2-ND	Single 2-Input AND Gate	SC-74A	189.00/3,000		
74LVC1G08GM,115	568-4395-1-ND	Single 2-Input AND Gate	6-XSON	.58	.41	.35
74LVC1G08GM,115	568-4395-2-ND	Single 2-Input AND Gate	6-XSON	760.00/5,000		
74LVC1G08GW,125	568-1580-1-ND	Single 2-Input AND Gate	UMT-5	.67	.31	.22
74LVC1G08GW,125	568-1580-2-ND	Single 2-Input AND Gate	UMT-5	189.00/3,000		
74LVC1G11GM,115	568-3004-1-ND	Single 3-Input AND Gate	6-XSON	.58	.41	.35
74LVC1G11GM,115	568-3004-2-ND	Single 3-Input AND Gate	6-XSON	760.00/5,000		
74LVC1G14GM,115	568-4397-1-ND	Single Schmitt-Trigger Inverter	6-XSON	.58	.41	.35
74LVC1G14GM,115	568-4397-2-ND	Single Schmitt-Trigger Inverter	6-XSON	760.00/5,000		
74LVC1G14GV,125	568-4612-1-ND	Single Schmitt-Trigger Inverter	SC-74A	.67	.31	.22
74LVC1G14GV,125	568-4612-2-ND	Single Schmitt-Trigger Inverter	SC-74A	189.00/3,000		
74LVC1G14GW,125	568-2267-1-ND	Single Schmitt-Trigger Inverter	SOT-353	.67	.31	.22
74LVC1G14GW,125	568-2267-2-ND	Single Schmitt-Trigger Inverter	SOT-353	189.00/3,000		
74LVC1G17GW,125	568-4613-1-ND	Single Schmitt-Trigger Buffer	5-TSSOP	.67	.31	.22
74LVC1G17GW,125	568-4613-2-ND	Single Schmitt-Trigger Buffer	5-TSSOP	189.00/3,000		
74LVC1G17GM,115	568-4398-1-ND	Single Schmitt-Trigger Buffer	6-XSON	.62	.44	.37
74LVC1G17GM,115	568-4398-2-ND	Single Schmitt-Trigger Buffer	6-XSON	810.00/5,000		
74LVC1G32GM,115	568-4400-1-ND	Single 2-Input OR Gate	6-XSON	.58	.41	.35
74LVC1G32GM,115	568-4400-2-ND	Single 2-Input OR Gate	6-XSON	760.00/5,000		
74LVC1G32GV,125	568-2297-1-ND	Single 2-Input OR Gate	SOT-753	.67	.31	.22
74LVC1G32GV,125	568-2297-2-ND	Single 2-Input OR Gate	SOT-753	189.00/3,000		
74LVC1G32GW,125	568-2298-1-ND	Single 2-Input OR Gate	SOT-353	.67	.31	.22
74LVC1G32GW,125	568-2298-2-ND	Single 2-Input OR Gate	SOT-353	189.00/3,000		
74LVC1G34GM,115	568-4401-1-ND	Single Buffer	6-XSON	.58	.41	.35
74LVC1G34GM,115	568-4401-2-ND	Single Buffer	6-XSON	760.00/5,000		
74LVC1G38GM,115	568-4402-1-ND	2-Input NAND Gate, Open Drain	6-XSON	.62	.44	.37
74LVC1G38GM,115	568-4402-2-ND	2-Input NAND Gate, Open Drain	6-XSON	810.00/5,000		
74LVC1G53DC,125	568-3009-1-ND	2-Channel Analog Mux/Demultiplexer	8-VSSOP	.50	.35	.30
74LVC1G53DC,125	568-3009-2-ND	2-Channel Analog Mux/Demultiplexer	8-VSSOP	420.00/3,000		
74LVC1G53GT,115	568-4403-1-ND	2-Channel Analog Mux/Demux	8-XSON	.77	.54	.47
74LVC1G53GT,115	568-4403-2-ND	2-Channel Analog Mux/Demux	8-XSON	1015.00/5,000		
74LVC1G57GM,115	568-4404-1-ND	Configurable Multiple Function Gate	6-XSON	.62	.44	.37
74LVC1G57GM,115	568-4404-2-ND	Configurable Multiple Function Gate	6-XSON	810.00/5,000		
74LVC1G57GM,115	568-4405-1-ND	Configurable Multiple Function Gate	6-XSON	.62	.44	.37
74LVC1G57GM,115	568-4405-2-ND	Configurable Multiple Function Gate	6-XSON	810.00/5,000		
74LVC1G57GV,125	568-4835-1-ND	Configurable Multiple Function Gate ***NEW!***	SC-74	.67	.31	.22
74LVC1G57GV,125	568-4835-2-ND	Configurable Multiple Function Gate ***NEW!***	SC-74	189.00/3,000		
74LVC1G57GW,125	568-4836-1-ND	Configurable Multiple Function Gate ***NEW!***	SC-88	.67	.31	.22
74LVC1G57GW,125	568-4836-2-ND	Configurable Multiple Function Gate ***NEW!***	SC-88	198.00/3,000		
74LVC1G58GW,125	568-4837-1-ND	Configurable Multiple Function Gate ***NEW!***	SC-88	.48	.32	.27
74LVC1G58GW,125	568-4837-2-ND	Configurable Multiple Function Gate ***NEW!***	SC-88	330.00/3,000		
74LVC1G66GF,132	568-4650-1-ND	Bilateral Switch	6-XSON	.69	.54	.48
74LVC1G66GF,132	568-4650-2-ND	Bilateral Switch	6-XSON	1065.00/5,000		
74LVC1G66GM,115	568-4406-1-ND	Bilateral Switch	6-XSON	.66	.47	.40
74LVC1G66GM,115	568-4406-2-ND	Bilateral Switch	6-XSON	870.00/5,000		
74LVC1G66GW,125	568-4614-1-ND	Bilateral Switch	5-TSSOP	.47	.27	.20
74LVC1G66GW,125	568-4614-2-ND	Bilateral Switch	5-TSSOP	201.00/3,000		
74LVC1G74DC,125	568-4494-1-ND	Single D-Type F/F with Set and Reset, Positive-Edge-Triggered	8-VSSOP	.61	.43	.37
74LVC1G74DC,125	568-4494-2-ND	Single D-Type F/F with Set and Reset, Positive-Edge-Triggered	8-VSSOP	513.00/3,000		
74LVC1G74GM,125	568-4407-1-ND	Single D-Type F/F with Set and Reset, Positive-Edge-Triggered	8-XQFN	.66	.47	.40
74LVC1G74GM,125	568-4407-2-ND	Single D-Type F/F with Set and Reset, Positive-Edge-Triggered	8-XQFN	744.00/4,000		
74LVC1G74GT,115	568-3255-1-ND	Single D-Type Flip-Flop Positive- Edge-Triggered	8-XSON	.77	.54	.47
74LVC1G74GT,115	568-3255-2-ND	Single D-Type Flip-Flop Positive- Edge-Triggered	8-XSON	1015.00/5,000		
74LVC1G74GT,115	568-4408-1-ND	Tri-State Ultra-Configurable Multiple Function Gate	8-XSON	.69	.54	.48
74LVC1G74GT,115	568-4408-2-ND	Tri-State Ultra-Configurable Multiple Function Gate	8-XSON	1065.00/5,000		
74LVC1G79GW,125	568-4838-1-ND	Single D-Type F/F Positive-Edge-Triggered ***NEW!***	5-TSSOP	.47	.27	.20
74LVC1G79GW,125	568-4838-2-ND	Single D-Type F/F Positive-Edge-Triggered ***NEW!***	5-TSSOP	201.00/3,000		
74LVC1G125GM,115	568-4396-1-ND	Tri-State Bus Buffer/Line Driver	6-XSON	.62	.44	.37
74LVC1G125GM,115	568-4396-2-ND	Tri-State Bus Buffer/Line Driver	6-XSON	810.00/5,000		
74LVC1G125GV,125	568-2296-1-ND	Tri-State Bus Buffer/Line Driver	SOT-753	.67	.31	.22
74LVC1G125GV,125	568-2296-2-ND	Tri-State Bus Buffer/Line Driver	SOT-753	189.00/3,000		
74LVC1G125GW,125	568-3005-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.67	.31	.22
74LVC1G125GW,125	568-3005-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	189.00/3,000		
74LVC1G157GM,115	568-3006-1-ND	Single 2-Input Multiplexer	6-XSON	.50	.35	.30
74LVC1G157GV,125	568-3007-1-ND	Single 2-Input Multiplexer	6-TSOP	.67	.31	.22
74LVC1G157GV,125	568-3007-2-ND	Single 2-Input Multiplexer	6-TSOP	189.00/3,000		
74LVC1G157GW,125	568-3008-1-ND	Single 2-Input Multiplexer	SC88-6	.67	.31	.22
74LVC1G157GW,125	568-3008-2-ND	Single 2-Input Multiplexer	SC88-6	189.00/3,000		
74LVC1G384GF,132	568-4648-1-ND	Bilateral Switch	6-XSON	.69	.54	.48
74LVC1G384GF,132	568-4648-2-ND	Bilateral Switch	6-XSON	1065.00/5,000		
74LVC1G384GM,115	568-4649-1-ND	Bilateral Switch	6-XSON	.66	.47	.40
74LVC1G384GM,115	568-4649-2-ND	Bilateral Switch	6-XSON	870.00/5,000		
74LVC1G3157GF,132	568-4647-1-ND	2-Channel Analog Mux/Demux	6-XSON	.69	.54	.48
74LVC1G3157GF,132	568-4647-2-ND	2-Channel Analog Mux/Demux	6-XSON	1065.00/5,000		
74LVC1G3157GM,115	568-4399-1-ND	2-Channel Analog Mux/Demux	6-XSON	.62	.44	.37
74LVC1G3157GM,115	568-4399-2-ND	2-Channel Analog Mux/Demux	6-XSON	810.00/5,000		
74LVC1GU04GW,125	568-4839-1-ND	Inverter ***NEW!***	5-TSSOP	.67	.31	.22
74LVC1GU04GW,125	568-4839-2-ND	Inverter ***NEW!***	5-TSSOP	189.00/3,000		
74LVC1GX04GV,125	568-3010-1-ND	X-tal Driver	6-TSSOP	1.02	.79	.70
74LVC1GX04GV,125	568-3010-2-ND	X-tal Driver	6-TSSOP	1008.00/3,000		
74LVC1GX04GW,125	568-3011-1-ND	X-tal Driver	6-TSSOP	1.02	.79	.70
74LVC1GX04GW,125	568-3011-2-ND	X-tal Driver	6-TSSOP	1008.00/3,000		
74LVC2G00GT,115	568-3256-1-ND	Dual 2-Input NAND Gate	8-XSON	1.06	.82	.72
74LVC2G00GT,115	568-3256-2-ND	Dual 2-Input NAND Gate	8-XSON	1620.00/5,000		
74LVC2G04GW,125	568-4497-1-ND	Dual Inverter	SC88-6	.47	.31	.26
74LVC2G04GW,125	568-4497-2-ND	Dual Inverter	SC88-6	321.00/3,000		
74LVC2G07GW,125	568-4617-1-ND	Buffer with OD Output	SC88-6	.52	.35	.29
74LVC2G07GW,125	568-4617-2-ND	Buffer with OD Output	SC88-6	357.00/3,000		
74LVC2G08DC,125	568-3257-1-ND	Dual 2-Input AND Gate	8-VSSOP	.61	.43	.37
74LVC2G08DC,125	568-3257-2-ND	Dual 2-Input AND Gate	8-VSSOP	513.00/3,000		
74LVC2G14GW,125	568-4840-1-ND	Dual Inverting Schmitt-Trigger ***NEW!***	SC88-6	.44	.30	.24
74LVC2G14GW,125	568-4840-2-ND	Dual Inverting Schmitt-Trigger ***NEW!***	SC88-6	303.00/3,000		
74LVC2G17GV,125	568-4618-1-ND	Dual Non-Inverting Schmitt-Trigger	SC-74	.52	.35	.29
74LVC2G17GV,125	568-4618-2-ND	Dual Non-Inverting Schmitt-Trigger	SC-74	357.00/3,000		
74LVC2G17GW,125	568-4841-1-ND	Dual Non-Inverting Schmitt-Trigger ***NEW!***	SC88-6	.52	.35	.29
74LVC2G17GW,125	568-4841-2-ND	Dual Non-Inverting Schmitt-Trigger ***NEW!***	SC88-6	357.00/3,000		
74LVC2G34GW,125	568-4842-1-ND	Dual Buffer Gate ***NEW!***	SC88-6	.52	.35	.29
74LVC2G34GW,125	568-4842-2-ND	Dual Buffer Gate ***NEW!***	SC88-6	357.00/3,000		
74LVC2G66GM,125	568-4651-1-ND	Bilateral Switch	8-XQFN	.88	.68	.60
74LVC2G66GM,125	568-4651-2-ND	Bilateral Switch	8-XQFN	1160.00/4,000		
74LVC2G66GT,115	568-4652-1-ND	Bilateral Switch	8-XSON	1.06	.82	.72
74LVC2G66GT,115	568-4652-2-ND	Bilateral Switch	8-XSON	1620.00/5,000		
74LVC2G86DC,125	568-3016-1-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	.61	.43	.37
74LVC2G86DC,125	568-3016-2-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	513.00/3,000		
74LVC2GU04GW,125	568-4843-1-ND	Dual Inverter ***NEW!***	SC88-6	.52	.35	.29
74LVC2GU04GW,125	568-4843-2-ND	Dual Inverter ***NEW!***	SC88-6	357.00/3,000		
LVCH Family						
74LVCH244APW,118	568-4505-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.52	.37	.32
74LVCH244APW,118	568-4505-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	367.50/2,500		
74LVCH245APW,118	568-4506-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.52	.37	.32
74LVCH245APW,118	568-4506-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	367.50/2,500		
74LVCH16245ADGG:51	568-4624-1-ND	Tri-State 16-Bit Transceiver with Direction Pin	48-TSSOP	.92	.72	.63
74LVCH16245ADGG:51	568-4624-2-ND	Tri-St. 16-Bit Transceiver, Direction Pin	48-TSSOP	610.00/2,000		
74LVCH16245ADL,118	568-4625-1-ND	Tri-St. 16-Bit Transceiver, Direction Pin	48-SSOP	.92	.72	.63
74LVCH16245ADL,118	568-4625-2-ND	Tri-St. 16-Bit Transceiver, Direction Pin	48-SSOP	473.00/1,000		
74LVCH32245AEC,557	568-2278-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	9.75	8.00	7.22
74LVCH162245ADGG:1	568-4623-1-ND	Tri-State 16-Bit Transceiver	48-TSSOP	.92	.72	.63
74LVCH162245ADGG:1	568-4623-2-ND	Tri-State 16-Bit Transceiver	48-TSSOP	610.00/2,000		
74LVCH322245AEC,51	568-4626-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	10.88	9.04	8.22
74LVCH322245AEC,51	568-4626-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	18679.50/3,500		
LVCU Family						
74LVCU04AD,118	568-2308-1-ND	Hex Inverter	14-SOIC	.41	.24	.20
LVT Family						
74LVT00PW,112	568-3024-5-ND	3.3V Quad 2-Input NAND Gate	14-TSSOP	.85	.68	.60
74LVT02PW,112	568-3027-5-ND	3.3V Quad 2-Input NOR Gate	14-TSSOP	1.04	.84	.73
74LVT04D,118	568-2309-1-ND	3.3V Hex Inverter	14-SOIC	1.13	.90	.81
74LVT04D,118	568-2309-2-ND	3.3V Hex Inverter	14-SOIC	1040.00/2,500		
74LVT04DB,112	568-3028-5-ND	3.3V Hex Inverter	14-SSOP	1.04	.84	.73
74LVT04PW,112	568-3029-5-ND	3.3V Hex Inverter	14-TSSOP	1.04	.84	.73
74LVT08DB,112	568-3030-5-ND	3.3V Quad 2-Input AND Gate	14-SSOP	1.04	.84	.73
74LVT08D,112	568-1590-5-ND	3.3V Quad 2-Input AND Gate	14-SOIC	.85	.68	.60
74LVT08PW,112	568-3031-5-ND	3.3V Quad 2-Input AND Gate	14-TSSOP	1.04	.84	.73
74LVT14D,112	568-1593-5-ND	3.3V Hex Inverter Schmitt-Trigger	14-SOIC	1.04	.84	.73
74LVT14DB,112	568-3035-5-ND	3.3V Hex Inverter Schmitt-Trigger	14-SSOP	1.04	.84	.73
74LVT14PW,112	568-3036-5-ND	3.3V Hex Inverter Schmitt-Trigger	14-TSSOP	1.04	.84	.73
74LVT32D,112	568-3040-5-ND	3.3V Quad 2-Input OR Gate	14-SOIC	1.08	.87	.76
74LVT74D,118	568-2318-1-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	1.13	.90	.81
74LVT74D,118	568-2318-2-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	1040.00/2,500		
74LVT74PW,112	568-3050-5-ND	3.3V Dual D-Type Flip-Flop	14-TSSOP	1.04	.84	.73
74LVT125D,112	568-1591-5-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.46	.31	.25
74LVT125D,118	568-2310-1-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.51	.34	.28
74LVT125D,118	568-2310-2-ND	Tri-State 3.3V Quad Buffer	14-SOIC	290.00/2,500		
74LVT125DB,118	568-4627-1-ND	Tri-State 3.3V Quad Buffer	14-SSOP	.65	.43	.35
74LVT125DB,118	568-4627-2-ND	Tri-State 3.3V Quad Buffer	14-SSOP	294.00/2,000		
74LVT125PW,112	568-1592-5-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.49	.33	.27
74LVT125PW,118	568-2311-1-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.54	.36	.30

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DIGITAL LOGIC

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74LVT125PW,118	568-2311-2-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	310.00/2,500		
74LVT126PW,118	568-4628-1-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.56	.37	.31
74LVT126PW,118	568-4628-2-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	317.50/2,500		
74LVT241PW,118	568-4631-1-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.74	.52	.45
74LVT241PW,118	568-4631-2-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	522.50/2,500		
74LVT244AD,118	568-4632-1-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-SOIC	.66	.47	.40
74LVT244AD,118	568-4632-2-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-SOIC	372.00/2,000		
74LVT244APW,112	568-1594-5-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.51	.38	.33
74LVT244APW,118	568-2316-1-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.59	.42	.36
74LVT244APW,118	568-2316-2-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	417.50/2,500		
74LVT245D,112	568-4633-5-ND	Tri-State 3.3V Octal Transceiver	20-SOIC	.57	.43	.37
74LVT245DB,118	568-2317-1-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	.66	.47	.40
74LVT245DB,118	568-2317-2-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	205.00/1,000		
74LVT245PW,112	568-1595-5-ND	Tri-State 3.3V Octal Transceiver	20-TSSOP	.57	.43	.37
74LVT574PW,118	568-4634-1-ND	Tri-St. 3.3V Octal D-Type F/F	20-TSSOP	.78	.55	.47
74LVT574PW,118	568-4634-2-ND	Tri-St. 3.3V Octal D-Type F/F	20-TSSOP	550.00/2,500		
74LVT640D,112	568-3046-5-ND	Tri-St. 3.3V Octal Transceiver, Inverting	20-SOIC	2.88	2.33	2.09
74LVT640DB,112	568-3047-5-ND	Tri-St. 3.3V Octal Transceiver, Inverting	20-SSOP	2.88	2.33	2.09
74LVT640PW,112	568-3048-5-ND	Tri-St. 3.3V Octal Transceiver, Inverting	20-TSSOP	2.88	2.33	2.09
74LVT16244BDGG,512	568-4629-5-ND	Tri-St. 3.3V 16-Bit Buffer/ Driver	48-TSSOP	.92	.72	.63
74LVT16244BDL,112	568-4630-5-ND	Tri-St. 3.3V 16-Bit Buffer/ Driver	48-SSOP	.92	.72	.63
74LVT16245BDGG,118	568-2315-1-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	.95	.75	.68
74LVT16245BDGG,118	568-2315-2-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	700.00/2,000		
74LVT162245BDGG:51	568-2312-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	.97	.75	.66
74LVT162245BDGG:51	568-2312-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	638.00/2,000		
74LVT162245BDL,118	568-2313-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	.97	.75	.66
74LVT162245BDL,118	568-2313-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	352.00/1,000		
74F Family						
N74F00D,623	568-2319-1-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.29	.24
N74F00D,623	568-2319-2-ND	Quad 2-Input NAND Gate	14-SOIC	267.50/2,500		
N74F02D,623	568-4636-1-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.29	.24
N74F02D,623	568-4636-2-ND	Quad 2-Input NOR Gate	14-SOIC	247.50/2,500		
N74F04D,623	568-2320-1-ND	Hex Inverter	14-SOIC	.44	.29	.24
N74F04D,623	568-2320-2-ND	Hex Inverter	14-SOIC	247.50/2,500		
N74F06D,623	568-1710-1-ND	Hex Inverter/Buffer Drvr, Open Collector	14-SOIC	1.79	1.42	1.28
N74F06D,623	568-1710-2-ND	Hex Inverter/Buffer Drvr, Open Collector	14-SOIC	1647.50/2,500		
N74F06N,602	568-1711-5-ND	Hex Inverter/Buffer Drvr, Open Collector	14-Dip	1.65	1.32	1.16
N74F07D,602	568-3980-5-ND	Hex Inverter/Buffer Drvr, Open Collector	14-SOIC	1.65	1.32	1.16
N74F07D,623	568-1712-1-ND	Hex Inverter/Buffer Drvr, Open Collector	14-SOIC	1.79	1.42	1.28
N74F07D,623	568-1712-2-ND	Hex Inverter/Buffer Drvr, Open Collector	14-SOIC	1647.50/2,500		
N74F08D,623	568-2321-1-ND	Quad 2-Input AND Gate	14-SOIC	.44	.29	.24
N74F08D,623	568-2321-2-ND	Quad 2-Input AND Gate	14-SOIC	267.50/2,500		
N74F32D,602	568-1729-5-ND	Quad 2-Input OR Gate	14-SOIC	.40	.27	.22
N74F32D,623	568-2324-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.30	.25
N74F38D,602	568-1731-5-ND	Quad 2-Input NAND Buffer Open Collector	14-SOIC	.52	.35	.28
N74F74N,602	568-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	.44	.30	.24
N74F86D,623	568-2325-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.57	.38	.31
N74F86D,623	568-2325-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	325.00/2,500		
N74F125D,602	568-1715-5-ND	Tri-State Quad Buffer	14-SOIC	.45	.34	.29
N74F126D,623	568-4637-1-ND	Tri-State Quad Buffer	14-SOIC	.52	.37	.32
N74F126D,623	568-4637-2-ND	Tri-State Quad Buffer	14-SOIC	365.00/2,500		
N74F138D,623	568-4638-1-ND	1-of-8 Decoder/Demux	16-SOIC	.55	.39	.33
N74F138D,623	568-4638-2-ND	1-of-8 Decoder/Demux	16-SOIC	387.50/2,500		
N74F139N,602	568-1717-5-ND	1-of-4 Decoder/Demux	16-Dip	.51	.40	.35
N74F157AD,602	568-1719-5-ND	Quad 2-Input Data Selector/Multiplexer Non-Inverting	16-SOIC	.50	.37	.32
N74F166D,602	568-3166-5-ND	8-Bit Bidirectional Univ. Shift Register	16-SOIC	4.99	4.02	3.66
N74F166N,602	568-3167-5-ND	8-Bit Bidirectional Univ. Shift Register	16-Dip	4.99	4.02	3.66
N74F244D,602	568-1720-5-ND	Tri-State Octal Buffer	20-SOIC	.49	.37	.32
N74F244D,623	568-2323-1-ND	Tri-State Octal Buffer	20-SOIC	.70	.50	.43
N74F244D,623	568-2323-2-ND	Tri-State Octal Buffer	20-SOIC	398.00/2,000		
N74F245D,602	568-1722-5-ND	Tri-State Octal Transceiver	20-SOIC	.61	.45	.39
N74F245N,602	568-1723-5-ND	Tri-State Octal Transceiver	20-Dip	.63	.49	.43
N74F257AD,623	568-4639-1-ND	Tri-State Quad 2-Line to 1-Line Selector/ Multiplexer Non-Inverting	16-SOIC	.61	.43	.37
N74F257AD,623	568-4639-2-ND	Tri-State Quad 2-Line to 1-Line Selector/ Multiplexer Non-Inverting	16-SOIC	427.50/2,500		
N74F259D,602	568-3174-5-ND	Addressable Latch	16-SOIC	2.55	2.06	1.85
N74F269DB,112	568-3175-5-ND	8-Bit Bidirectional Binary Counter	24-SSOP	4.95	3.98	3.63
N74F367D,602	568-1730-5-ND	Hex Buffer/Driver	16-SOIC	1.48	1.20	1.08
N74F367N,602	568-3179-5-ND	Hex Buffer/Driver	16-Dip	1.81	1.47	1.32
N74F373D,602	568-4640-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.61	.45	.39
N74F574D,623	568-4641-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.75	.53	.46
N74F574D,623	568-4641-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	424.00/2,000		
N74F786D,602	568-3185-5-ND	4-Bit Asynchronous Bus Arbiter	16-SOIC	4.76	3.83	3.49
N74F786N,602	568-3186-5-ND	4-Bit Asynchronous Bus Arbiter	16-Dip	5.82	4.68	4.27
N74F804D,602	568-3187-5-ND	Hex 2-Input NAND Driver	20-SOIC	2.38	1.92	1.75
N74F3037D,512	568-1726-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-SOIC	1.79	1.45	1.31
N74F3037N,602	568-1727-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-Dip	2.76	2.23	2.01
N74F3038D,512	568-1728-5-ND	Quad 2-Input NAND 30-Ohm Line Driver, Open Collector	16-SOIC	1.60	1.29	1.16
N74F3038N,602	568-3178-5-ND	Quad 2-Input NAND 30-Ohm Line Driver, Open Collector	16-Dip	2.76	2.23	2.01
N74F5074D	568-1732-5-ND	Sync. Dual D-Type Flip-Flop/Clock Driver	14-SOIC	2.34	1.89	1.71
4000 Family						
HEF4000BP,652	568-3068-5-ND	Dual 3-Input NOR Gate	14-Dip	.55	.41	.35
HEF4000BT,652	568-3069-5-ND	Dual 3-Input NOR Gate	14-SOIC	.55	.41	.35
HEF4001BP,652	568-3070-5-ND	Quad 2-Input NOR Gate	14-Dip	.52	.35	.28
HEF4001BT,652	568-3071-5-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.27	.22
HEF4002BT,652	568-3072-5-ND	Dual 4-Input NOR Gate	14-SOIC	.55	.41	.35
HEF4007UBP,652	568-4849-5-ND	Dual Complementary Pair/Inverter ***NEW!***	14-Dip	.43	.32	.27
HEF4011BP,652	568-1683-5-ND	Quad 2-Input NAND Gate	14-Dip	.52	.35	.28
HEF4011BT,652	568-3075-5-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.27	.22
HEF4013BP,652	568-1684-5-ND	Dual D-Type Flip-Flop	14-Dip	.51	.34	.28
HEF4013BT,652	568-1685-5-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.27	.22
HEF4014BT,652	568-3076-5-ND	8-Bit Static Shift Register	16-SOIC	.72	.57	.49
HEF4015BP,652	568-3077-5-ND	Dual 4-Bit Static Shift Register	16-Dip	.52	.39	.33
HEF4015BT,652	568-3078-5-ND	Dual 4-Bit Static Shift Register	16-SOIC	.52	.39	.33
HEF4016BP,652	568-3079-5-ND	Quad Bilateral Switch	14-Dip	.64	.48	.41
HEF4017BP,652	568-3080-5-ND	5-Stage Johnson Counter	16-Dip	.63	.47	.40
HEF4017BT,652	568-3081-5-ND	5-Stage Johnson Counter	16-SOIC	.63	.47	.40
HEF4020BP,652	568-3082-5-ND	14-Stage Binary Counter	16-Dip	.58	.43	.37
HEF4020BT,652	568-3083-5-ND	14-Stage Binary Counter	16-SOIC	.58	.43	.37

DIGITAL LOGIC

DigiReel® (Cont.)

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
HEF4021BP,652	568-3084-5-ND	8-Bit Static Shift Register	16-Dip	.58	.43	.37
HEF4021BT,652	568-3085-5-ND	8-Bit Static Shift Register	16-SOIC	.55	.41	.36
HEF4023BP,652	568-3086-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.35	.30
HEF4023BT,652	568-3087-5-ND	Triple 3-Input NAND Gate	14-SOIC	.58	.39	.32
HEF4025BP,652	568-3091-5-ND	Triple 3-Input NOR Gate	14-Dip	.46	.35	.30
HEF4027BP,652	568-3092-5-ND	Dual JK Flip-Flop	16-Dip	.46	.35	.30
HEF4027BT,652	568-3093-5-ND	Dual JK Flip-Flop	16-SOIC	.44	.33	.28
HEF4028BP,652	568-3094-5-ND	1-of-10 Decoder	16-Dip	.59	.44	.38
HEF4028BT,652	568-3095-5-ND	1-of-10 Decoder	16-SOIC	.44	.33	.28
HEF4030BT,652	568-3096-5-ND	Quad Exclusive OR Gate	14-SOIC	.45	.34	.29
HEF4040BP,652	568-3101-5-ND	12-Stage Binary Counter	16-Dip	.52	.39	.33
HEF4040BT,652	568-3102-5-ND	12-Stage Binary Counter	16-SOIC	.50	.37	.32
HEF4044BT,652	568-3103-5-ND	Tri-State, Quad R/S Latch with Output	16-SOIC	.49	.37	.32
HEF4046BP,652	568-3104-5-ND	Phase-Locked Loop	16-Dip	.63	.47	.40
HEF4046BT,652	568-3105-5-ND	Phase-Locked Loop	16-SOIC	.63	.47	.40
HEF4047BP,652	568-3106-5-ND	Mono Astable Multivibrator	14-Dip	.63	.47	.40
HEF4047BT,652	568-3107-5-ND	Mono Astable Multivibrator	14-SOIC	.55	.41	.36
HEF4049BP,652	568-1686-5-ND	Hex Inverting Buffer	16-Dip	.67	.49	.42
HEF4049BT,652	568-1687-5-ND	Hex Inverting Buffer	16-SOIC	.46	.35	.30
HEF4050BP,652	568-3108-5-ND	Hex Non-Inverting Buffer	16-Dip	.46	.35	.30
HEF4050BT,652	568-1688-5-ND	Hex Non-Inverting Buffer	16-SOIC	.44	.33	.28
HEF4051BP,652	568-1689-5-ND	8-Channel Analog Mux/Demux	16-Dip	.49	.37	.32
HEF4051BT,652	568-3979-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.49	.37	.32
HEF4051BT,653	568-1690-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.57	.40	.35
HEF4051BT,653	568-1690-2-ND	8-Channel Analog Mux/Demux	16-SOIC	402.50/2,500		
HEF4051BTT,118	568-1875-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.66	.51	.45
HEF4051BTT,118	568-1875-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	545.00/2,500		
HEF4052BP,652	568-3109-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.55	.41	.36
HEF4052BT,652	568-1691-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.57	.38	.31
HEF4053BP,652	568-1692-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.41	.36
HEF4053BT,652	568-1693-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.57	.38	.31
HEF4053BT,653	568-2255-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.64	.42	.35
HEF4053BT,653	568-2255-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	362.50/2,500		
HEF4059BT,652	568-3110-5-ND	Programmable Divide-By-N Counter	24-SOIC	2.94	2.37	2.16
HEF4060BP,652	568-3111-5-ND	14-Stage Ripple-Carry Binary Counter/ Divider	16-Dip	.58	.43	.37
HEF4060BT,652	568-3112-5-ND	14-Stage Ripple-Carry Binary Counter/ Divider	16-SOIC	.55	.41	.36
HEF4066BP,652	568-1694-5-ND	Quad Bilateral Switch	14-Dip	.55	.37	.30
HEF4066BT,652	568-1695-5-ND	Quad Bilateral Switch	14-SOIC	.52	.35	.28
HEF4066BT,653	568-2266-1-ND	Quad Bilateral Switch	14-SOIC	.57	.38	.31
HEF4066BT,653	568-2266-2-ND	Quad Bilateral Switch	14-SOIC	327.50/2,500		
HEF4067BP,652	568-3113-5-ND	16-Channel Analog Mux/Demux	24-Dip	2.39	1.93	1.74
HEF4067BT,652	568-3114-5-ND	16-Channel Analog Mux/Demux	24-SOIC	2.39	1.93	1.74
HEF4068BT,652	568-3115-5-ND	8-Input NAND Gate	14-SOIC	.60	.45	.38
HEF4069UBT,652	568-3116-5-ND	Hex Inverter	14-SOIC	.43	.29	.23
HEF4069UBP,652	568-1696-5-ND	Hex Inverter	14-Dip	.54	.36	.30
HEF4070BP,652	568-1697-5-ND	Quad Exclusive OR Gate	14-Dip	.52	.39	.33
HEF4070BT,652	568-3117-5-ND	Quad Exclusive OR Gate	14-SOIC	.52	.35	.28
HEF4071BP,652	568-1698-5-ND	Quad 2-Input OR Gate	14-Dip	.50	.37	.32
HEF4071BT,652	568-3118-5-ND	Quad 2-Input OR Gate	14-SOIC	.55	.32	.26
HEF4072BT,652	568-1699-5-ND	Dual 4-Input OR Gate	14-SOIC	.60	.45	.38
HEF4073BP,652	568-3119-5-ND	Triple 3-Input AND Gate	14-Dip	.50	.37	.32
HEF4075BP,652	568-1700-5-ND	Triple 3-Input OR Gate	14-Dip	.40	.30	.26
HEF4077BT,652	568-4635-5-ND	Quad Exclusive NOR Gate	14-SOIC	.58	.39	.32
HEF4081BP,652	568-1702-5-ND	Quad 2-Input AND Gate	14-Dip	.50	.37	.32
HEF4081BT,652	568-3120-5-ND	Quad 2-Input AND Gate	14-SOIC	.52	.35	.28
HEF4082BP,652	568-1703-5-ND	Dual 4-Input AND Gate	14-Dip	.40	.30	.26
HEF4093BP,652	568-1704-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.52	.35	.28
HEF4093BT,653	568-1705-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.51	.34	.28
HEF4093BT,653	568-1705-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	290.00/2,500		
HEF4094BP,652	568-3121-5-ND	8-Stage Shift-and-Store Bus Register	16-Dip	.49	.37	.32
HEF4094BT,652	568-1706-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.47	.35	.30
HEF4094BT,653	568-2257-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.55	.39	.33
HEF4094BT,653	568-2257-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	385.00/2,500		
HEF4104BP,652	568-3122-5-ND	Tri-State, Quad Low to High Voltage Translator	16-Dip	.99	.77	.67
HEF4104BT,652	568-3123-5-ND	Tri-State, Quad Low to High Voltage Translator	16-SOIC	.99	.77	.67
HEF4511BP,652	568-3124-5-ND	BCD to 7-Segment Latch/Decoder/Driver	16-Dip	.61	.45	.39
HEF4511BT,652	568-3125-5-ND	BCD to 7-Segment Latch/Decoder/Driver	16-SOIC	.49	.37	.32
HEF4514BP,652	568-3126-5-ND	1-of-16 Decoder/Demultiplexer	24-Dip	1.39	1.12	.98
HEF4514BT,652	568-3127-5-ND	1-of-16 Decoder/Demultiplexer	24-SOIC	.93	.73	.63
HEF4515BP,652	568-3128-5-ND	1-of-16 Decoder/Demultiplexer	24-Dip	1.39	1.12	.98
HEF4516BT,652	568-3129-5-ND	Binary Up/Down Counter	16-SOIC	.71	.55	.48
HEF4520BP,652	568-1707-5-ND	Dual Binary Counter	16-Dip	.67	.49	.42
HEF4520BT,652	568-3130-5-ND	Dual Binary Counter	16-SOIC	.55	.41	.36
HEF4521BT,652	568-3131-5-ND	24-Stage Frequency Divider	16-SOIC	.80	.62	.54
HEF4528BP,652	568-3132-5-ND	Dual Mono Multivibrator	16-Dip	.82	.64	.56
HEF4528BT,652	568-3133-5-ND	Dual Mono Multivibrator	16-SOIC	.67	.49	.42
HEF4538BP,652	568-3134-5-ND	Dual Precison Mono. Multivibrator	16-Dip	.84	.66	.57
HEF4538BT,652	568-3135-5-ND	Dual Precison Mono. Multivibrator	16-SOIC	.53	.39	.34
HEF4541BP,652	568-3136-5-ND	Programmable Timer	14-Dip	.49	.37	.32
HEF4541BT,652	568-3137-5-ND	Programmable Timer	14-SOIC	.87	.65	.56
HEF4543BP,652	568-3138-5-ND	BCD to 7-Segment Latch/Decoder/Driver	16-Dip	.52	.39	.33
HEF4555BT,652	568-3139-5-ND	Dual 1-of-4 Decoder/Demultiplexer	16-SOIC	.63	.47	.40
HEF4794BP,112	568-3140-5-ND	8-Stage Shift-and-Store Register LED Driver	16-Dip	1.60	1.29	1.13
HEF4794BT,112	568-3141-5-ND	8-Stage Shift-and-Store Register LED Driver	16-SOIC	1.60	1.29	1.13
HEF4794BT,118	568-5020-1-ND	8-Stage Shift-and-Store Register LED Driver ***NEW!***	16-SOIC	1.74	1.38	1.24
HEF4794BT,118	568-5020-2-ND	8-Stage Shift-and-Store Register LED Driver ***NEW!***	16-SOIC	1602.50/2,500		
HEF4894BP,112	568-3142-5-ND	12-Stage Shift-and-Store Register LED Driver	20-Dip	2.69	2.17	1.96
HEF4894BT,112	568-1708-5-ND	12-Stage Shift-and-Store Register LED Driver	20-SOIC	2.69	2.17	1.96
HEF40098BP,652	568-3073-5-ND	Tri-State, Hex Inverting Buffer	16-Dip	1.26	1.01	.88
HEF40098BT,652	568-3074-5-ND	Tri-State, Hex Inverting Buffer	16-SOIC	1.26	1.01	.88
HEF40106BP,652	568-1681-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.52	.35	.28
HEF40106BT,653	568-1682-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.53	.35	.29
HEF40106BT,653	568-1682-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	302.50/2,500		
HEF40240BT,652	568-3088-5-ND	Tri-St. Octal Inverting Buffer w/Output	20-SOIC	1.65	1.34	1.20
HEF40244BP,652	568-3089-5-ND	Tri-State Octal Buffer with Output	20-Dip	1.65	1.34	1.20
HEF40244BT,652	568-3090-5-ND	Tri-State Octal Buffer with Output	20-SOIC	1.65	1.34	1.20

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
HEF40373BP,652	568-3097-5-ND	Tri-St. Octal Transparent Latch w/Output	20-Dip	1.77	1.43	1.29
HEF40373BT,652	568-3098-5-ND	Tri-St. Octal Transparent Latch w/Output	20-SOIC	1.77	1.43	1.29
HEF40374BP,652	568-3099-5-ND	Tri-State Octal D-Type, F/F with Output	20-Dip	1.77	1.43	1.29

LOGIC TRANSLATION

NXP Digi-Reel®

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
GTL2000DGG,512	568-4223-5-ND	22-Bit Bi-Directional Low Voltage Translator	48-TSSOP	1.58	1.26	1.11
GTL2002D,112	568-4224-5-ND	2-Bit Bi-Directional Low Voltage Translator	8-SOIC	.88	.69	.60
GTL2002D,118	568-5019-1-ND	2-Bit Bi-Directional Low Voltage Translator ***NEW!***	8-SOIC	.97	.75	.66
GTL2002D,118	568-5019-2-ND	2-Bit Bi-Directional Low Voltage Translator ***NEW!***	8-SOIC	797.50/2,500		
GTL2002DC,125	568-1869-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	1.06	.84	.76
GTL2002DC,125	568-1869-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	1176.00/3,000		
GTL2002DP,118	568-1870-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	.97	.75	.66
GTL2002DP,118	568-1870-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	797.50/2,500		
GTL2002GM,125	568-4225-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-XQFN	.79	.61	.54
GTL2003BQ, 115	568-4293-1-ND	8-Bit Bi-Directional Low Voltage Translator	20-DHVQFN	1.14	.90	.81
GTL2003BQ, 115	568-4293-2-ND	8-Bit Bi-Directional Low Voltage Translator	20-DHVQFN	1260.00/3,000		
GTL2003PW,112	568-4232-5-ND	8-Bit Bi-Directional Low Voltage Translator	20-TSSOP	1.05	.84	.74
GTL2005PW,118	568-1000-1-ND	Quad Translating Transceiver	14-TSSOP	2.21	1.71	1.55
GTL2005PW,118	568-1000-2-ND	Quad Translating Transceiver	14-TSSOP	2127.50/2,500		
GTL2005PW/G-T	568-1872-1-ND	Quad GTL/GTL+ to LVTTL/TTL Bi-Directional Translator	14-TSSOP	2.00	1.55	1.40
GTL2006PW,118	568-1873-1-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.75	1.35	1.23
GTL2006PW,118	568-1873-2-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	1687.50/2,500		
GTL2007PW,118	568-1874-1-ND	13-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	1.71	1.33	1.20
GTL2009PW,112	568-3064-5-ND	3-Bit GTL Front-Side Bus Frequency Comparator	16-TSSOP	.68	.53	.47
GTL2010BS,118	568-3632-1-ND	10-Bit Bi-Directional Low Voltage Translator	24-HVQFN	1.37	1.08	.98
GTL2010BS,118	568-3632-2-ND	10-Bit Bi-Directional Low Voltage Translator	24-HVQFN	2874.00/6,000		
GTL2010PW,118	568-4508-1-ND	10-Bit Bi-Directional Low Voltage Translator	24-TSSOP	1.22	.96	.87
GTL2010PW,118	568-4508-2-ND	10-Bit Bi-Directional Low Voltage Translator	24-TSSOP	1120.00/2,500		
GTL2012DP,118	568-4233-1-ND	2-Bit GTL to LVTTL Transceiver	8-TSSOP	.97	.75	.66
GTL2012DP,118	568-4233-2-ND	2-Bit GTL to LVTTL Transceiver	8-TSSOP	1120.00/2,500		
GTL2014PW,112	568-3066-5-ND	4-Bit LVTTL to GTL Transceiver	14-TSSOP	1.33	1.07	.94
GTL2018PW,112	568-4234-5-ND	8-Bit LVTTL to GTL Transceiver	24-TSSOP	1.52	1.23	1.11
GTL2034PW,112	568-3067-5-ND	4-Bit GTL to GTL Buffer	14-TSSOP	1.66	1.33	1.17

MEMORY

NXP Digi-Reel®

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EEPROM						
PCA24S08AD,112	568-5053-5-ND	1024x8-Bit CMOS EEPROM ***NEW!***	8-SOIC	.88	.70	.62
PCA24S08ADP,118	568-5062-1-ND	1024x8-Bit CMOS EEPROM ***NEW!***	8-TSSOP	.88	.70	.62
PCA24S08ADP,118	568-5062-2-ND	1024x8-Bit CMOS EEPROM ***NEW!***	8-TSSOP	875.00/2,500		
PCA24S08DP,118	568-3350-1-ND	1024x8-Bit CMOS EEPROM	8-TSSOP	.84	.66	.60
PCF8582C-2T/03,112	568-1083-5-ND	256x8-Bit CMOS EEPROM	8-SOIC	1.30	1.04	.91
SRAM						
PCF8570P/F5,112	568-1071-5-ND	256x8-Bit Low Voltage SRAM	8-Dip	2.17	1.75	1.58
PCF8570T/F5,518	568-1072-1-ND	256x8-Bit Low Voltage SRAM	8-SOIC	2.45	1.89	1.72
PCF8570T/F5,518	568-1072-2-ND	256x8-Bit Low Voltage SRAM	8-SOIC	1015.00/1,000		

MEMORY INTERFACE

NXP Digi-Reel®

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SSTU32864EC/G,557	568-2052-ND	1.8V Config. Registered Buffer	96-LFBGA	3.44	2.77	2.52
SSTU32866EC/G,551	568-2054-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	4.20	3.38	3.08
SSTUA32866EC/G,518	568-3539-1-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	4.80	3.92	3.52
SSTUA32866EC/G,518	568-3539-2-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	7448.00/3,500		
SSTUH32865ET/G,551	568-3578-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	7.25	5.95	5.37
SSTVF16859BS,118	568-2055-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.66	1.28	1.16
SSTVN16859BS,118	568-2056-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.66	1.28	1.16

POWER CONTROL / MANAGEMENT

NXP Digi-Reel®

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
Display						
OM4068H/2,518	568-4513-1-ND	32-Segment LCD Driver	44-QFP	2.91	2.25	2.04
OM4068H/2,518	568-4513-2-ND	32-Segment LCD Driver	44-QFP	1806.00/1,500		
PCA9532D,112	568-1039-5-ND	16-Bit I²C LED Dimmer	24-SOIC	2.67	2.15	1.94
PCA9532PW,112	568-1040-5-ND	16-Bit I²C LED Dimmer	24-TSSOP	2.67	2.15	1.94
PCF2100CT/F1,112	568-1064-5-ND	40-Segment LCD Driver	28-SOIC	2.11	1.70	1.53
PCF2111CT/1,118	568-1065-1-ND	64-Segment LCD Driver	40-VSOP	2.56	1.98	1.79
PCF2111CT/1,118	568-1065-2-ND	64-Segment LCD Driver	40-VSOP	639.00/500		
PCF2112CP/F1,112	568-3557-5-ND	32-Segment LCD Driver	40-Dip	2.51	2.03	1.83
PCF2112CT/1,118	568-1066-1-ND	32-Segment LCD Driver	40-VSOP	2.32	1.80	1.63
PCF2112CT/1,118	568-1066-2-ND	32-Segment LCD Driver	40-VSOP	580.50/500		
PCF8534AHL/1,518	568-5058-1-ND	60-Segment LCD Driver ***NEW!***	80-LQFP	2.86	2.30	2.10
PCF8534AHL/1,518	568-5058-2-ND	60-Segment LCD Driver ***NEW!***	80-LQFP	1428.00/1,000		
PCF8562TT/2,118	568-2029-1-ND	Univ. LCD Driver for Low Multiplex Rates	48-TSSOP	1.96	1.52	1.38
PCF8562TT/2,118	568-2029-2-ND	Univ. LCD Driver for Low Multiplex Rates	48-TSSOP	1512.00/2,000		
PCF8566P,112	568-1069-5-ND	Univ. LCD Driver for Low Multiplex Rates	40-Dip	2.79	2.25	2.03
PCF8566T/1,112	568-5030-ND	Univ. LCD Driver for Low Mulitplex Rates ***NEW!***	40-VSOP	2.88	2.33	2.10
PCF8566T/1,118	568-1070-1-ND	Univ. LCD Driver for Low Multiplex Rates	40-VSOP	3.26	2.52	2.28
PCF8566T/1,118	568-1070-2-ND	Univ. LCD Driver for Low Multiplex Rates	40-VSOP	814.00/500		
PCF8576CT/1,118	568-1080-1-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	3.21	2.63	2.36
PCF8576CT/1,118	568-1080-2-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	888.00/500		
PCF8576DH/2,518	568-2031-1-ND	Univ. LCD Driver for Low Multiplex Rates	64-TQFP	2.56	1.98	1.79
PCF8576DH/2,518	568-2031-2-ND	Univ. LCD Driver for Low Multiplex Rates	64-TQFP	1588.50/1,500		

POWER CONTROL / MANAGEMENT

NXP Digi-Reel® (Cont.)

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCF8576DT/2,118	568-3558-1-ND	Univ. LCD Driver for Low Multiplex Rates	56-TSSOP	2.38	1.84	1.67
PCF8576DT/2,118	568-3558-2-ND	Univ. LCD Driver for Low Multiplex Rates	56-TSSOP	1836.00/2,000		
PCF8577CT/3,118	568-1082-1-ND	LCD Direct/Duplex Driver	40-VSOP	3.26	2.52	2.28
PCF8577CT/3,118	568-1082-2-ND	LCD Direct/Duplex Driver	40-VSOP	814.00/500		
PCF8578T/1,112	568-3561-5-ND	LCD Driver for Dot Matrix	56-VSOP	3.64	2.93	2.67
PCF85162T/1,118	568-5059-1-ND	32-Segment LCD Driver ***NEW!***	48-TSSOP	1.64	1.33	1.20
PCF85162T/1,118	568-5059-2-ND	32-Segment LCD Driver ***NEW!***	48-TSSOP	1538.00/2,000		
PCF85134HL/1,118	568-5060-1-ND	60-Segment LCD Driver ***NEW!***	80-LQFP	2.80	2.25	2.05
PCF85134HL/1,118	568-5060-2-ND	60-Segment LCD Driver ***NEW!***	80-LQFP	1400.00/1,000		
PCF8579T/1,112	568-3562-5-ND	LCD Driver for Dot Matrix	56-VSOP	3.92	3.15	2.87
SAA1064/N2,112	568-1107-5-ND	4-Digit LED Driver with I²C Bus Interface	24-Dip	2.80	2.25	2.05
SAA1064T/N2,112	568-1108-5-ND	4-Digit LED Driver with I²C Bus Interface	24-SOIC	2.80	2.25	2.05
TDA7073AT/N4,112	568-3591-5-ND	Dual BTL Power Driver	16-SOIC	1.32	1.06	.93
CFL Drivers						
UBA2014T/N1,518	568-3322-1-ND	600V Driver IC for HF Fluorescent Lamps	16-SOIC	2.95	2.28	2.07
UBA2014T/N1,518	568-3322-2-ND	600V Driver IC for HF Fluorescent Lamps	16-SOIC	2842.50/2,500		
UBA2021P/N2,112	568-4928-5-ND	630V Driver IC for CFL/TL Lamps ***NEW!***	14-Dip	1.86	1.50	1.35
UBA2021T/N2,512	568-3323-5-ND	630V Driver IC for CFL/TL Lamps	14-SOIC	2.13	1.72	1.55
UBA2021T/N2,518	568-4929-1-ND	630V Driver IC for CFL/TL Lamps ***NEW!***	14-SOIC	2.10	1.62	1.47
UBA2021T/N2,518	568-4929-2-ND	630V Driver IC for CFL/TL Lamps ***NEW!***	14-SOIC	2025.00/2,500		
UBA2024AP/N1,112	568-4921-5-ND	Half-Bridge Driver ***NEW!***	8-Dip	2.02	1.63	1.47
UBA2024P/N1,112	568-3324-5-ND	Half-Bridge Power IC for CFL Lamps	8-Dip	2.61	2.11	1.90
UBA2024T/N1,518	568-4922-1-ND	Half-Bridge Driver ***NEW!***	14-SOIC	2.00	1.54	1.40
UBA2024T/N1,518	568-4922-2-ND	Half-Bridge Driver ***NEW!***	14-SOIC	1925.00/2,500		
UBA2025T/N1,518	568-4923-1-ND	Half-Bridge Driver ***NEW!***	16-SOIC	3.22	2.49	2.26
UBA2025T/N1,518	568-4923-2-ND	Half-Bridge Driver ***NEW!***	16-SOIC	1334.00/1,000		
UBA2032TS/N3,118	568-3325-1-ND	Full Bridge Driver	28-SSOP	3.87	3.17	2.85
UBA2033TS/N2,118	568-3326-1-ND	HF Full Bridge Driver	28-SSOP	3.87	3.17	2.85
LED Drivers						
PCA9550D,112	568-1046-5-ND	2-Bit I²C LED Driver with Blinker	8-SOIC	1.79	1.45	1.31
PCA9550DP,118	568-3387-1-ND	2-Bit I²C LED Driver	8-TSSOP	2.03	1.57	1.42
PCA9550DP,118	568-3387-2-ND	2-Bit I²C LED Driver	8-TSSOP	1955.00/2,500		
PCA9551BS,118	568-3388-1-ND	8-Bit I²C LED Driver	16-HVQFN	2.58	1.99	1.81
PCA9551BS,118	568-3388-2-ND	8-Bit I²C LED Driver	16-HVQFN	5748.00/6,000		
PCA9551D,112	568-1047-5-ND	8-Bit I²C LED Driver with Blinker	16-SOIC	2.28	1.85	1.66
PCA9551PW,112	568-1048-5-ND	8-Bit I²C LED Driver with Blinker	16-TSSOP	2.28	1.85	1.66
PCA9552BS,118	568-3389-1-ND	16-Bit I²C Bus LED Driver	24-HVQFN	3.01	2.33	2.11
PCA9552BS,118	568-3389-2-ND	16-Bit I²C Bus LED Driver	24-HVQFN	6708.00/6,000		
PCA9552D,112	568-1049-5-ND	16-Bit I²C LED Driver with Blinker	24-SOIC	2.67	2.15	1.94
PCA9552PW,112	568-1050-5-ND	16-Bit I²C LED Driver with Blinker	24-TSSOP	2.67	2.15	1.94
PCA9553D/01,112	568-3390-5-ND	4-Bit I²C Bus LED Driver	8-SOIC	1.79	1.45	1.31
PCA9553DP/01,118	568-3392-1-ND	4-Bit I²C Bus LED Driver	8-TSSOP	2.03	1.57	1.42
PCA9553DP/01,118	568-3392-2-ND	4-Bit I²C Bus LED Driver	8-TSSOP	1955.00/2,500		
PCA9553TK,118	568-4219-1-ND	4-Bit I²C Bus LED Driver	8-HVSON	1.93	1.49	1.35
PCA9553TK,118	568-4219-2-ND	4-Bit I²C Bus LED Driver	8-HVSON	4524.00/6,000		
PCA9622DR,118	568-4772-1-ND	16-Bit I²C RGBA LED Driver ***NEW!***	32-TSSOP	2.80	2.25	2.05
PCA9622DR,118	568-4772-2-ND	16-Bit I²C RGBA LED Driver ***NEW!***	32-TSSOP	2660.00/2,000		
PCA9624PW,112	568-4773-5-ND	8-Bit I²C RGBA LED Driver ***NEW!***	24-TSSOP	2.48	2.00	1.80
PCA9626B,118	568-4774-1-ND	24-Bit I²C RGBA LED Driver ***NEW!***	48-LQFP	4.76	3.83	3.49
PCA9626B,118	568-4774-2-ND	24-Bit I²C RGBA LED Driver ***NEW!***	48-LQFP	4522.00/2,000		
PCA9633BS,118	568-3234-1-ND	4-Bit I²C Bus LED Driver	16-HVQFN	1.75	1.35	1.23
PCA9633BS,118	568-3234-2-ND	4-Bit I²C Bus LED Driver	16-HVQFN	3900.00/6,000		
PCA9633D16,112	568-3235-5-ND	4-Bit I²C Bus LED Driver	16-SOIC	1.14	.92	.80
PCA9633DP1,118	568-3236-1-ND	4-Bit I²C Bus LED Driver	8-TSSOP	1.52	1.20	1.08
PCA9633DP1,118	568-3236-2-ND	4-Bit I²C Bus LED Driver	8-TSSOP	1400.00/2,500		
PCA9633DP2,118	568-3237-1-ND	4-Bit I²C Bus LED Driver	10-TSSOP	1.52	1.20	1.08
PCA9633DP2,118	568-3237-2-ND	4-Bit I²C Bus LED Driver	10-TSSOP	1400.00/2,500		
PCA9633PW,112	568-3238-5-ND	4-Bit I²C Bus LED Driver	16-TSSOP	1.40	1.12	.98
PCA9634D,118	568-4065-1-ND	8-Bit Fm+ I²C Bus LED Driver	20-SOIC	1.75	1.35	1.23
PCA9634D,118	568-4065-2-ND	8-Bit Fm+ I²C Bus LED Driver	20-SOIC	1350.00/2,000		
PCA9634PW,118	568-4066-1-ND	8-Bit Fm+ I²C Bus LED Driver	20-TSSOP	1.75	1.35	1.23
PCA9634PW,118	568-4066-2-ND	8-Bit Fm+ I²C Bus LED Driver	20-TSSOP	1687.50/2,500		
PCA9635PW,118	568-4067-1-ND	16-Bit Fm+ I²C Bus LED Driver	28-TSSOP	2.80	2.16	1.96
PCA9635PW,118	568-4067-2-ND	16-Bit Fm+ I²C Bus LED Driver	28-TSSOP	2565.00/2,500		
PCA9901DP,118	568-4934-1-ND	8-Bit LED Driver with Blinker ***NEW!***	8-TSSOP	.84	.66	.57
PCA9901DP,118	568-4934-2-ND	8-Bit LED Driver with Blinker ***NEW!***	8-TSSOP	762.50/2,500		
PCA9626BS,518	568-4935-1-ND	24-Bit I²C RGBA LED Driver ***NEW!***	48-HVQFN	4.76	3.83	3.49
PCA9626BS,518	568-4935-2-ND	24-Bit I²C RGBA LED Driver ***NEW!***	48-HVQFN	9044.00/4,000		
PCA9922PW,118	568-4775-1-ND	8-Ch. Constant Curr. LED Driver ***NEW!***	16-TSSOP	1.23	.98	.86
PCA9922PW,118	568-4775-2-ND	8-Ch. Constant Curr. LED Driver ***NEW!***	16-TSSOP	1225.00/2,500		
SSL1522T/N2,518	568-4414-1-ND	SMPS Mains LED Driver	14-SOIC	1.96	1.52	1.38
SSL1522T/N2,518	568-4414-2-ND	SMPS Mains LED Driver	14-SOIC	1890.00/2,500		
SSL1523P/N2,112	568-4415-5-ND	SMPS Mains LED Driver	8-Dip	2.05	1.65	1.49
SSL1623PH/N1,112	568-4416-5-ND	SMPS Mains LED Driver	16-Dip	2.39	1.93	1.74
SSL1750T/N1,518	568-4417-1-ND	SMPS Mains LED Driver	16-SOIC	3.79	3.10	2.78
SSL1750T/N1,518	568-4417-2-ND	SMPS Mains LED Driver	16-SOIC	4200.00/2,500		
SSL2101T/N1,518	568-4733-1-ND	SMPS Dimmable LED Driver ***NEW!***	16-SOIC	3.45	2.82	2.53
SSL2101T/N1,518	568-4733-2-ND	SMPS Dimmable LED Driver ***NEW!***	16-SOIC	3825.00/2,500		
SSL2102T/DB/FLYB230V,598	568-4930-ND	230V Designer Kit for SSL2102 ***NEW!***	—	122.00	110.00	106.40
SSL2102T/DB/FLYB120V,598	568-4931-ND	120V Designer Kit for SSL2102 ***NEW!***	—	122.00	110.00	106.40
SSL2102T/N1,518	568-4920-1-ND	SMPS Dimmable LED Driver ***NEW!***	20-SOIC	4.05	3.31	2.97
SSL2102T/N1,518	568-4920-2-ND	SMPS Dimmable LED Driver ***NEW!***	20-SOIC	3592.00/2,000		
SSL3250AHN/C1,528	568-4718-1-ND	Photo Flash LED Driver ***NEW!***	16-HVQFN	1.75	1.38	1.25
SSL3250AHN/C1,528	568-4718-2-ND	Photo Flash LED Driver ***NEW!***	16-HVQFN	3672.00/6,000		
UBA3070T/N1,118	568-4924-1-ND	White LED Backlight Driver ***NEW!***	8-SOIC	1.67	1.32	1.19
UBA3070T/N1,118	568-4924-2-ND	White LED Backlight Driver ***NEW!***	8-SOIC	1540.00/2,500		
Regulators						
SA57000-30D,115	568-3306-1-ND	CapFREE 150mA, LN LDO Regulator	SOT-23-5	.88	.68	.60
SA57000-30D,115	568-3306-2-ND	CapFREE 150mA, LN LDO Regulator	SOT-23-5	870.00/3,000		
SA57000-33D,115	568-1184-1-ND	CapFREE 150mA LN LDO Regulator	SOT-23-5	.97	.76	.67
SA57000-33D,115	568-1184-2-ND	CapFREE 150mA LN LDO Regulator	SOT-23-5	963.00/3,000		
TDA3664/N1,135	568-3309-1-ND	5V, 100mA LDO Regulator	SOT-223	1.71	1.35	1.22
TDA3664/N1,135	568-3309-2-ND	5V, 100mA LDO Regulator	SOT-223	2520.00/4,000		
TDA3664AT/N1,118	568-3310-1-ND	5V, 100mA LDO Regulator	8-SOIC	1.52	1.20	1.08
TDA3664AT/N1,118	568-3310-2-ND	5V, 100mA LDO Regulator	8-SOIC	1400.00/2,500		
TL431ACDBZR,215	568-4892-1-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	.56	.33	.27
TL431ACDBZR,215	568-4892-2-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	243.00/3,000		
TL431AIDBZR,215	568-4891-1-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	.56	.33	.27
TL431AIDBZR,215	568-4891-2-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	243.00/3,000		
TL431AMSDT,215	568-4882-1-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	.53	.31	.25
TL431AMSDT,215	568-4882-2-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	249.00/3,000		
TL431AQDBZR,215	568-4890-1-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	.56	.33	.27

(Continued)

POWER CONTROL / MANAGEMENT

Digi-Reel® *(Cont.)* ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL431AQDBZR,215	568-4890-2-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	243.00/3,000		
TL431ASDT,215	568-4881-1-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	.53	.31	.25
TL431ASDT,215	568-4881-2-ND	Adj. Precision Shunt Reg., 1% ***NEW!***	SOT-23-3	249.00/3,000		
TL431BCDBZR,215	568-4889-1-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	.49	.32	.27
TL431BCDBZR,215	568-4889-2-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	312.00/3,000		
TL431BIDBZR,215	568-4888-1-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	.49	.32	.27
TL431BIDBZR,215	568-4888-2-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	312.00/3,000		
TL431BQDBZR,215	568-4887-1-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	.49	.32	.27
TL431BQDBZR,215	568-4887-2-ND	Adj. Precision Shunt Reg., 0.5% ***NEW!***	SOT-23-3	312.00/3,000		
TL431CDBZR,215	568-4886-1-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	.52	.31	.25
TL431CDBZR,215	568-4886-2-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	210.00/3,000		
TL431IDBZR,215	568-4885-1-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	.52	.31	.25
TL431IDBZR,215	568-4885-2-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	210.00/3,000		
TL431MSDT,215	568-4880-1-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	.50	.30	.24
TL431MSDT,215	568-4880-2-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	195.00/3,000		
TL431QDBZR,215	568-4884-1-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	.52	.31	.25
TL431QDBZR,215	568-4884-2-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	210.00/3,000		
TL431SDT,215	568-4883-1-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	.50	.30	.24
TL431SDT,215	568-4883-2-ND	Adj. Precision Shunt Reg., 2% ***NEW!***	SOT-23-3	195.00/3,000		
Switch Mode Power Supply						
SSL2101T/DB/FBCB230V,598	568-4811-ND	SMPS Controller for Dimmable LED Lighting ***NEW!***	16-SOIC	122.00	110.00	106.40
SSL2101T/DB/FBCB120V,598	568-4812-ND	SMPS Controller for Dimmable LED Lighting ***NEW!***	16-SOIC	122.00	110.00	106.40
TEA1506P/N1,112	568-3313-5-ND	GreenChip™II SMPS Control	8-Dip	1.47	1.18	1.03
TEA1506T/N1,518	568-2335-1-ND	GreenChip™II SMPS Control	14-SOIC	1.60	1.26	1.14
TEA1506T/N1,518	568-2335-2-ND	GreenChip™II SMPS Control	14-SOIC	1470.00/2,500		
TEA1507P/N1,112	568-2336-5-ND	GreenChip™II SMPS Control	8-Dip	1.68	1.35	1.18
TEA1520P/N2,112	568-2439-5-ND	SMPS for Low Power Systems	8-Dip	1.66	1.33	1.17
TEA1520T/N2,518	568-2333-1-ND	STARplug™ Controller	14-SOIC	1.40	1.11	1.00
TEA1521P/N2,112	568-2440-5-ND	SMPS for Low Power Systems	8-Dip	1.28	1.04	.93
TEA1521T/N2,518	568-2334-1-ND	SMPS for Low Power Systems	14-SOIC	1.84	1.43	1.29
TEA1521T/N2,518	568-2334-2-ND	SMPS for Low Power Systems	14-SOIC	1777.50/2,500		
TEA1522P/N2,112	568-2444-5-ND	SMPS for Low Power Systems	8-Dip	1.95	1.58	1.42
TEA1522T/N2,518	568-2438-1-ND	SMPS for Low Power Systems	14-SOIC	2.21	1.71	1.55
TEA1522T/N2,518	568-2438-2-ND	SMPS for Low Power Systems	14-SOIC	2127.50/2,500		
TEA1523P/N2,112	568-2445-5-ND	SMPS for Low Power Systems	8-Dip	2.05	1.65	1.49
TEA1532T/N1,118	568-3316-1-ND	GreenChip™II SMPS Control	8-SOIC	1.14	.90	.81
TEA1533AT/N1,518	568-2338-1-ND	GreenChip™II SMPS Control	14-SOIC	1.71	1.35	1.22
TEA1533AT/N1,518	568-2338-2-ND	GreenChip™II SMPS Control	14-SOIC	1575.00/2,500		
TEA1533T/N1,518	568-3319-1-ND	GreenChip™II SMPS Control	14-SOIC	1.14	.90	.81
TEA1552T/N1,518	568-2339-1-ND	GreenChip™II SMPS Control	14-SOIC	1.71	1.35	1.22
TEA1552T/N1,518	568-2339-2-ND	GreenChip™II SMPS Control	14-SOIC	1575.00/2,500		
TEA1620P/N1,112	568-2441-5-ND	STARplug™ Controller	8-Dip	.99	.80	.70
TEA1623P/N1,112	568-2443-5-ND	STARplug™ Controller	8-Dip	1.95	1.58	1.42
TEA1751LT/N1,518	568-4925-1-ND	GreenChip™ III SMPS Control ***NEW!***	16-SOIC	2.80	2.16	1.96
TEA1751LT/N1,518	568-4925-2-ND	GreenChip™ III SMPS Control ***NEW!***	16-SOIC	2700.00/2,500		
TEA1751T/N1,518	568-4926-1-ND	GreenChip™ III SMPS Control ***NEW!***	16-SOIC	2.80	2.16	1.96
TEA1751T/N1,518	568-4926-2-ND	GreenChip™ III SMPS Control ***NEW!***	16-SOIC	2700.00/2,500		
9397 750 16172	568-4326-ND	Demo Kit STARplug™ Bronco II	8-Dip	66.56	—	—
Voltage Detectors						
PCF1252-1T/F4,112	568-3302-5-ND	Threshold Detector/Reset Generator	8-SOIC	2.41	1.95	1.76
PCF1252-7T/F4,112	568-3305-5-ND	Threshold Detector/Reset Generator	8-SOIC	2.41	1.95	1.76

RADIO FREQUENCY ICs

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SLRC40001T/OFE,112	568-1124-5-ND	I-CODE Reader IC	32-SOIC	7.55	6.20	5.59
TDA8002CT/A/C1,512	568-3515-5-ND	IC Card Interface	28-SOIC	2.98	2.40	2.18
TDA8002CT/C/C1,512	568-3517-5-ND	IC Card Interface	28-SOIC	3.13	2.52	2.30
TDA8002CG/C1,518	568-3518-1-ND	IC Card Interface	32-LQFP	3.15	2.43	2.21
TDA8002CG/C1,518	568-3518-2-ND	IC Card Interface	32-LQFP	2430.00/2,000		
TDA8007BHL/C3,118	568-3520-1-ND	IC Card Interface	48-LQFP	5.40	4.41	3.96
TDA8007BHL/C3,118	568-3520-2-ND	IC Card Interface	48-LQFP	5054.00/2,000		
TDA8020HL/C2,118	568-3522-1-ND	Dual IC Card Interface	32-LQFP	3.00	2.45	2.20
TDA8020HL/C2,118	568-3522-2-ND	Dual IC Card Interface	32-LQFP	2660.00/2,000		
TDA8020HL/C1,118	568-3523-1-ND	Dual IC Card Interface	32-LQFP	3.75	3.06	2.75
TDA8024TT/C1,118	568-2447-1-ND	IC Card Interface	28-TSSOP	1.52	1.20	1.08
TDA8024TT/C1,118	568-2447-2-ND	IC Card Interface	28-TSSOP	1400.00/2,500		
TDA8029HL/C206,118	568-3524-1-ND	Low Power Single Card Reader	32-LQFP	7.39	6.14	5.58
TDA8029HL/C207,118	568-2233-1-ND	Low Power Single Card Reader	32-LQFP	5.40	4.41	3.96
TDA8029HL/C207,118	568-2233-2-ND	Low Power Single Card Reader	32-LQFP	5054.00/2,000		

NEW! SIGNAL CONDITIONING

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IP4253CZ8-4,118	568-4725-1-ND	4-Channel Pass Filter	8-HXSON	.60	.40	.33
IP4253CZ8-4,118	568-4725-2-ND	4-Channel Pass Filter	8-HXSON	548.00/4,000		
IP4253CZ12-6,118	568-4723-1-ND	6-Channel Pass Filter	12-HXSON	.69	.49	.42
IP4253CZ12-6,118	568-4723-2-ND	6-Channel Pass Filter	12-HXSON	780.00/4,000		
IP4253CZ16-8,118	568-4724-1-ND	8-Channel Pass Filter	16-HXSON	.68	.53	.47
IP4253CZ16-8,118	568-4724-2-ND	8-Channel Pass Filter	16-HXSON	892.00/4,000		
IP4254CZ8-4,118	568-4728-1-ND	4-Channel Pass Filter	8-HXSON	.60	.40	.33
IP4254CZ8-4,118	568-4728-2-ND	4-Channel Pass Filter	8-HXSON	548.00/4,000		
IP4254CZ12-6,118	568-4726-1-ND	6-Channel Pass Filter	12-HXSON	.69	.49	.42
IP4254CZ12-6,118	568-4726-2-ND	6-Channel Pass Filter	12-HXSON	780.00/4,000		
IP4254CZ16-8,118	568-4727-1-ND	8-Channel Pass Filter	16-HXSON	.68	.53	.47
IP4254CZ16-8,118	568-4727-2-ND	8-Channel Pass Filter	16-HXSON	892.00/4,000		
IP4777CZ38,118	568-4729-1-ND	HDMI Interface ESD Protection	38-TSSOP	2.96	2.29	2.08
IP4777CZ38,118	568-4729-2-ND	HDMI Interface ESD Protection	38-TSSOP	2855.00/2,500		

SIGNAL CONTROLLERS

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Audio Processors / CODECS						
SAF7113H/V1,557	568-1319-ND	9-Bit Video Input Processor	44-QFP	18.03	15.33	14.20
TEA6320T/V1,512	568-1148-5-ND	Sound Fader Control Circuit	32-SOIC	4.74	3.81	3.48
UDA1341TS/N1,512	568-1154-5-ND	Economy Audio CODEC for MiniDisc Home Stereo	28-SSOP	6.26	5.04	4.59

SIGNAL CONTROLLERS

Digi-Reel® *(Cont.)* ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UDA1344TS/N2,512	568-1156-5-ND	Low Volt., LP Stereo Audio CODEC with DSP	28-SSOP	5.10	4.10	3.74
UDA1345TS/N2,112	568-1157-5-ND	Economy Audio CODEC	28-SSOP	3.06	2.46	2.24
UDA1361TSDK	568-1158-5-ND	96kHz Sampling 24-Bit Stereo Audio ADC	16-SSOP	2.34	1.89	1.70
Media Processors						
OM4965/PNX1005E/2	568-4932-ND	Development Kit for PNX1005E ***NEW!***	—	607.50	573.75	562.50
PNX1301EH/G,557	568-1293-ND	2.5V, 180MHz Programmable	292-HBGA	23.75	20.19	18.71
PNX1501E/G,557	568-1297-ND	1.2V, 266MHz Audio/Video/Graphics System	456-BGA	29.66	25.22	23.37
PNX1502E/G,557	568-1298-ND	1.3V, 300MHz Audio/Video/Graphics System	456-BGA	47.03	40.68	38.13

SPECIALIZED ICs

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KMA199E,115	568-4329-1-ND	Programmable Angle Sensor	SOT-880	6.50	5.31	4.77
KMA199E,115	568-4329-2-ND	Programmable Angle Sensor	SOT-880	6098.40/1,800		
KMA200,115	568-4286-1-ND	Programmable Angle Sensor	SOT-637	9.46	7.86	7.14
KMA200,115	568-4286-2-ND	Programmable Angle Sensor	SOT-637	9891.00/1,800		
KMZ10B,112	568-3555-ND	Magnetic Field Sensor	SOT-195	5.02	4.04	3.68
NE57814DD,518	568-2332-1-ND	DDR Memory Termination	8-HSO	2.10	1.62	1.47
NE57814DD,518	568-2332-2-ND	DDR Memory Termination	8-HSO	2025.00/2,500		
PSSI2021SAY,115	568-5037-1-ND	Constant Current Source ***NEW!***	SOT-353	.98	.78	.70
PSSI2021SAY,115	568-5037-2-ND	Constant Current Source ***NEW!***	SOT-353	1086.00/3,000		

TEMPERATURE SENSORS

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KTY81/110,112	568-1003-ND	Silicon Temperature Sensor	SOD-70	.93	.75	.65
KTY81/121,112	568-3249-ND	Silicon Temperature Sensor	SOD-70	.93	.75	.65
KTY81/210,112	568-3250-ND	Silicon Temperature Sensor	SOD-70	.93	.75	.65
KTY81/220,112	568-3251-ND	Silicon Temperature Sensor	SOD-70	.90	.70	.61
KTY81/222,112	568-3252-ND	Silicon Temperature Sensor	SOD-70	.93	.75	.65
KTY83/110,113	568-3253-1-ND	Silicon Temperature Sensor	DO-34	1.01	.79	.69
KTY83/110,113	568-3253-2-ND	Silicon Temperature Sensor	DO-34	3366.00/10,000		
KTY83/122,113	568-3248-1-ND	Silicon Temperature Sensor	DO-34	1.01	.79	.69
KTY83/122,113	568-3248-2-ND	Silicon Temperature Sensor	DO-34	3366.00/10,000		
KTY84/130,113	568-3254-1-ND	Silicon Temperature Sensor	DO-34	1.21	.96	.87
KTY84/130,113	568-3254-2-ND	Silicon Temperature Sensor	DO-34	4628.25/10,000		
LM75AD,112	568-4226-5-ND	Digital Temp. Sensor/Thermal WD	8-SOIC	.98	.79	.69
LM75ADP,118	568-4227-1-ND	Digital Temp. Sensor/Thermal WD	8-TSSOP	1.06	.84	.76
LM75ADP,118	568-4227-2-ND	Digital Temp. Sensor/Thermal WD	8-TSSOP	980.00/2,500		
LM75BD,118	568-4688-1-ND	Digital Temp. Sensor/Thermal WD	8-SOIC	1.03	.81	.73
LM75BD,118	568-4688-2-ND	Digital Temp. Sensor/Thermal WD	8-SOIC	2025.00/2,500		
LM75BDP,118	568-4768-1-ND	Digital Temp. Sensor/Thermal WD ***NEW!***	8-TSSOP	1.03	.81	.73
LM75BDP,118	568-4768-2-ND	Digital Temp. Sensor/Thermal WD ***NEW!***	8-TSSOP	870.00/2,500		
LM75BGD,125	568-4769-1-ND	Digital Temp. Sensor/Thermal WD ***NEW!***	8-UXSON	.96	.75	.65
LM75BGD,125	568-4769-2-ND	Digital Temp. Sensor/Thermal WD ***NEW!***	8-UXSON	1044.00/3,000		
NE1617ADS,118	568-4512-1-ND	Temp. Monitor for MPU Systems	16-SSOP	2.10	1.62	1.47
NE1617ADS,118	568-4512-2-ND	Temp. Monitor for MPU Systems	16-SSOP	2025.00/2,500		
NE1619DS,112	568-4228-5-ND	HECETA4 Temp./Voltage Monitor	16-SSOP	2.48	2.00	1.80
SA56004AD,112	568-3329-5-ND	Digital Temperature Sensor	8-SOIC	1.05	.84	.74
SA56004ADP,118	568-3330-1-ND	Digital Temperature Sensor	8-TSSOP	1.14	.90	.81
SA56004ADP,118	568-3330-2-ND	Digital Temperature Sensor	8-TSSOP	1050.00/2,500		
SA56004BDP,118	568-3332-1-ND	Digital Temperature Sensor	8-TSSOP	1.14	.90	.81
SA56004BDP,118	568-3332-2-ND	Digital Temperature Sensor	8-TSSOP	1050.00/2,500		
SA56004DDP,118	568-3336-1-ND	Digital Temperature Sensor	8-TSSOP	.93	.74	.66
SA56004ED,112	568-3337-5-ND	Digital Temperature Sensor	8-SOIC	.85	.69	.60
SA56004EDP,118	568-3338-1-ND	Digital Temperature Sensor	8-TSSOP	1.14	.90	.81
SA56004EDP,118	568-3338-2-ND	Digital Temperature Sensor	8-TSSOP	1050.00/2,500		
SA56004FDP,118	568-3340-1-ND	Digital Temperature Sensor	8-TSSOP	1.14	.90	.81
SA56004FDP,118	568-3340-2-ND	Digital Temperature Sensor	8-TSSOP	1050.00/2,500		
SA56004GDP,118	568-3342-1-ND	Digital Temperature Sensor	8-TSSOP	.93	.74	.66
SE95DP,118	568-2051-1-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog	8-TSSOP	1.23	.98	.88
SE95DP,118	568-2051-2-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog	8-TSSOP	1132.50/2,500		
SE97BTP,547	568-5055-1-ND	Memory Module Temp. Sensor with Integrated SPD ***NEW!***	8-HWSON	1.33	1.07	.94
SE97BTP,547	568-5055-2-ND	Memory Module Temp. Sensor with Integrated SPD ***NEW!***	8-HWSON	2128.00/4,000		
SE97PW,118	568-4291-1-ND	Memory Module Temp. Sensor with Integrated SPD	8-TSSOP	1.44	1.14	1.03
SE97PW,118	568-4291-2-ND	Memory Module Temp. Sensor with Integrated SPD	8-TSSOP	1330.00/2,500		
SE97TK,118	568-4292-1-ND	Memory Module Temp. Sensor with Integrated SPD	8-HVSON	1.44	1.14	1.03
SE97TK,118	568-4292-2-ND	Memory Module Temp. Sensor with Integrated SPD	8-HVSON	3030.00/6,000		
SE97TL,147	568-4779-1-ND	Memory Module Temp. Sensor with Integrated SPD ***NEW!***	8-HXSON	1.54	1.24	1.08
SE97TP,147	568-4730-1-ND	Memory Module Temp. Sensor with Integrated SPD ***NEW!***	8-HWSON	1.44	1.14	1.03
SE97TP,147	568-4730-2-ND	Memory Module Temp. Sensor with Integrated SPD ***NEW!***	8-HWSON	2128.00/4,000		
SE98APW,118	568-4732-1-ND	Memory Module Temp. Sensor ***NEW!***	8-TSSOP	1.44	1.14	1.03
SE98APW,118	568-4732-2-ND	Memory Module Temp. Sensor ***NEW!***	8-TSSOP	1330.00/2,500		
SE98ATL,147	568-4780-1-ND	Memory Module Temp. Sensor ***NEW!***	8-HXSON	1.33	1.07	.94
SE98ATP,547	568-4731-1-ND	Memory Module Temp. Sensor ***NEW!***	8-HWSON	1.44	1.14	1.03
SE98ATP,547	568-4731-2-ND	Memory Module Temp. Sensor ***NEW!***	8-HWSON	2128.00/4,000		

TIMERS

Digi-Reel® ***RoHS Compliant***

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICM7555CD/01,112	568-5021-ND	General Purpose CMOS Timer ***NEW!***	8-SOIC	.45	.34	.29
ICM7555CD/01,118	568-1818-1-ND	General Purpose CMOS Timer	8-SOIC	.52	.37	.32
ICM7555CD/01,118	568-1818-2-ND	General Purpose CMOS Timer	8-SOIC	367.50/2,500		
ICM7555CN/01,112	568-1819-5-ND	General Purpose CMOS Timer	8-Dip	.67	.49	.42
ICM7555ID/01,112	568-5022-ND	General Purpose CMOS Timer ***NEW!***	8-SOIC	.57	.42	.36
ICM7555ID/01,118	568-1820-1-ND	General Purpose CMOS Timer	8-SOIC	.66	.47	.40
ICM7555ID/01,118	568-1820-2-ND	General Purpose CMOS Timer	8-SOIC	465.00/2,500		
ICM7555ID/DG,112	568-5054-5-ND	General Purpose CMOS Timer ***NEW!***	8-SOIC	.64	.50	.44
ICM7555IN/01,112	568-1821-5-ND	General Purpose CMOS Timer	8-Dip	.60	.47	.41

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

AMPLIFIERS

Texas Instruments Digi-Reel®

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
3584JM	3584JM-ND	High-Voltage Op Amp	TO-3-8	217.86	202.16	—
BUF602ID	296-19309-5-ND	High-Speed Closed Loop Buffer	8-SOIC	2.95	2.38	2.14
BUF602IDBVT	296-19310-1-ND	High-Speed Closed Loop Buffer*	SOT-23-5	3.33	2.57	2.33
BUF634F/500	296-25929-1-ND	High-Speed Buffer, 250mA Output* ***NEW!***	D2PAK-5	12.19	10.12	9.20
BUF634F/500	296-25929-2-ND	High-Speed Buffer, 250mA Output* ***NEW!***	D2PAK-5	3565.00/500		
BUF634P	BUF634P-ND	High-Speed Buffer, 250mA Output*	8-Dip	8.75	7.18	6.48
BUF634T	BUF634T-ND	High-Speed Buffer, 250mA Output*	T0-220-5	11.50	9.43	8.51
BUF634U	BUF634U-ND	High-Speed Buffer, 250mA Output	8-SOIC	10.50	8.61	7.77
BUF634U/2K5	296-24142-1-ND	High-Speed Buffer, 250mA Output*	8-SOIC	9.28	7.70	7.00
BUF634U/2K5	296-24142-2-ND	High-Speed Buffer, 250mA Output*	8-SOIC	11375.00/2,500		
BUF01900AIPWR	296-21300-1-ND	Prog. Voltage Source with Memory	8-TSSOP	3.33	2.57	2.33
BUF01900AIPWR	296-21300-2-ND	Prog. Voltage Source with Memory	8-TSSOP	2566.00/2,000		
BUF04701AIPWR	296-12162-1-ND	4-Ch. R/R I/O CMOS Buffer Amp	14-TSSOP	4.95	4.05	3.63
BUF05704AIPWP	296-17458-ND	4-Ch., 18V, Gamma Correction Buffer*	14-HTSSOP	1.47	1.18	1.03
BUF06703PWR	296-15207-1-ND	6-Ch. LCD Gamma Correction Buffer	16-TSSOP	1.71	1.35	1.22
BUF06704AIPWP	296-17457-ND	6-Ch., 18V, Gamma Correction Buffer*	16-TSSOP	1.71	1.38	1.24
BUF07703PWP	296-14632-5-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	1.86	1.50	1.35
BUF07704AIPWP	296-17357-ND	6-Ch., 18V, Gamma Correction Buffer	20-HTSSOP	1.86	1.50	1.35
BUF08821BIPWPR	296-25375-1-ND	8-Ch. Gamma Volt. Generator* ***NEW!***	20-HTSSOP	5.70	4.66	4.18
BUF08821BIPWPR	296-25375-2-ND	8-Ch. Gamma Volt. Generator* ***NEW!***	20-HTSSOP	5054.00/2,000		
BUF08832AIPWPR	296-25180-1-ND	8-Ch. Gamma Volt. Generator* ***NEW!***	20-HTSSOP	5.70	4.66	4.18
BUF08832AIPWPR	296-25180-2-ND	8-Ch. Gamma Volt. Generator* ***NEW!***	20-HTSSOP	5054.00/2,000		
BUF11702PWP	BUF11702PWP-ND	10+1 Ch. High Current Buffer	28-HTSSOP	2.80	2.25	2.05
BUF11704AIPWP	296-17140-5-ND	18V Supply Multi-Channel Gamma Correction Buffer	28-HTSSOP	2.80	2.25	2.05
BUF12800AIPWP	296-17589-5-ND	Reference Voltage Generator	24-TSSOP	6.58	5.29	4.82
BUF16820AIDAPR	296-19538-1-ND	14-Ch. Gamma Voltage Generator	32-HTSSOP	6.76	5.61	5.10
BUF16820AIDAPR	296-19538-2-ND	14-Ch. Gamma Voltage Generator	32-HTSSOP	6630.00/2,000		
BUF16821BIPWPR	296-24179-1-ND	Prog. Gamma Volt. Generator* ***NEW!***	28-HTSSOP	6.45	5.27	4.73
BUF16821BIPWPR	296-24179-2-ND	Prog. Gamma Volt. Generator* ***NEW!***	28-HTSSOP	5720.00/2,000		
DEM-OPA-SO-1A	296-19589-ND	Generic Unpopulated PCB for Single Op Amps in 8-SOIC Packages	—	5.10	—	—
DEM-OPA-SO-1B	296-19716-ND	Demo Board for Single Op Amps in SO-8 Packages*	—	5.10	—	—
DEM-OPA-SOT-1A	296-20840-ND	Demo Fixture for SOT-23 Op Amps*	—	5.10	—	—
DEM-OPA-SOT-1B	296-19683-ND	Demo Board for Single Op Amps in SOT-23 Packages	—	5.10	—	—
DEM-OTA-SO-1A	296-20841-ND	Demo Fixture for 8-SOIC Op Amps	—	5.10	—	—
DEM-VCA-SO-1A	296-19684-ND	Demo Board for VCAs in SO-8 Packages*	—	5.10	—	—
DRV601RTJR	296-23150-1-ND	DIRECTPATH™ Stereo Line Driver, Adjustable Gain	20-WQFN	2.63	2.03	1.84
DRV601RTJR	296-23150-2-ND	DIRECTPATH™ Stereo Line Driver, Adjustable Gain	20-WQFN	3039.00/3,000		
DRV602PW	296-26054-5-ND	DIRECTPATH™ Stereo Line Driver, Adjustable Gain* ***NEW!***	14-TSSOP	2.64	2.13	1.92
DRV603PWR	296-24102-1-ND	DIRECTPATH™ Stereo Line Driver, Adjustable Gain	14-TSSOP	2.98	2.30	2.09
DRV603PWR	296-24102-2-ND	DIRECTPATH™ Stereo Line Driver, Adjustable Gain	14-TSSOP	2296.00/2,000		
DRV604PWPR	296-25757-1-ND	DIRECTPATH™ Stereo Line Driver and HP Amp w/ Adjustable Gain* ***NEW!***	28-HTSSOP	3.00	2.45	2.20
DRV604PWPR	296-25757-2-ND	DIRECTPATH™ Stereo Line Driver and HP Amp w/ Adjustable Gain* ***NEW!***	28-HTSSOP	2660.00/2,000		
DRV1100P	DRV1100P-ND	High Power Differential Driver Amp	8-Dip	6.81	5.59	5.05
DRV1100U	DRV1100U-ND	High Power Differential Driver Amp	8-SOIC	11.88	9.74	8.79
DRV1101U	DRV1101U-ND	High Power Differential Line Driver	8-SOIC	11.88	9.74	8.79
INA101AG	INA101AG-ND	Very High Accuracy Instr. Amp*	14-CDip	43.79	37.88	35.51
INA101AM	INA101AM-ND	Very High Accuracy Instr. Amp*	TO-100-10	36.46	31.00	28.72
INA101CM	INA101CM-ND	Very High Accuracy Instr. Amp*	TO-100-10	48.29	41.76	39.15
INA101HP	INA101HP-ND	Very High Accuracy Instr. Amp*	14-Dip	20.90	17.58	16.15
INA101KU	INA101KU-ND	Very High Accuracy Instr. Amp*	16-SOIC	20.90	17.58	16.15
INA101SM	INA101SM-ND	Very High Accuracy Instr. Amp*	TO-100-10	55.20	47.75	44.76
INA103KP	INA103KP-ND	Low Noise, Low Distortion Instr. Amp*	16-Dip	11.00	9.25	8.50
INA103KU	INA103KU-ND	LN, Low Distortion Instr. Amp*	16-SOIC	13.20	11.10	10.20
INA105BM	INA105BM-ND	Precision Unity Gain Diff. Amp*	TO-99	28.56	24.28	22.50
INA105KP	INA105KP-ND	Precision Unity Gain Diff. Amp	8-Dip	9.63	7.90	7.13
INA105KU	INA105KU-ND	Precision Unity Gain Diff. Amp*	8-SOIC	9.63	7.90	7.13
INA106KP	INA106KP-ND	Precision Fixed-Gain Differential Amp	8-Dip	11.00	9.25	8.50
INA106U	INA106U-ND	Precision Fixed-Gain Differential Amp*	8-SOIC	13.20	11.10	10.20
INA110KP	INA110KP-ND	Fast-Settling, FET-Input Instr. Amp	16-Dip	15.40	12.95	11.90
INA110KU	INA110KU-ND	Fast-Settling, FET-Input Instr. Amp	16-SOIC	15.40	12.95	11.90
INA111AP	INA111AP-ND	High Speed FET-Input Instr. Amp	8-Dip	12.00	9.84	8.88
INA111AU	INA111AU-ND	High Speed FET-Input Instr. Amp*	16-SOIC	12.76	10.73	9.86
INA111BP	INA111BP-ND	High Speed FET-Input Instr. Amp	8-Dip	16.94	14.25	13.09
INA111BU	INA111BU-ND	High Speed FET-Input Instr. Amp	16-SOIC	16.94	14.25	13.09
INA114AP	INA114AP-ND	Precision Instrumentation Amp*	8-Dip	12.00	9.84	8.88
INA114AU	INA114AU-ND	Precision Instrumentation Amp*	16-SOIC	12.76	10.73	9.86
INA114BP	INA114BP-ND	Precision Instrumentation Amp	8-Dip	14.41	12.12	11.14
INA114BU	INA114BU-ND	Precision Instrumentation Amp*	16-SOIC	16.61	13.97	12.84
INA115AU	INA115AU-ND	Precision Instrumentation Amp*	16-SOIC	11.11	9.35	8.59
INA115BU	INA115BU-ND	Precision Instrumentation Amp*	16-SOIC	13.64	11.47	10.54
INA116PA	INA116PA-ND	Ultra Low In Bias Current Instr. Amp	16-Dip	10.50	8.61	7.77
INA116UA	INA116UA-ND	Ultra Low In Bias Current Instr. Amp	16-SOIC	10.50	8.61	7.77
INA117KU	INA117KU-ND	High Common-Mode Volt., Diff. Amp	8-SOIC	8.13	6.67	6.02
INA117P	INA117P-ND	High Common-Mode Volt., Diff. Amp	8-Dip	6.75	5.54	5.00
INA118P	INA118P-ND	Precision Low Power Instr. Amp*	8-Dip	12.00	9.84	8.88
INA118PB	INA118PB-ND	Precision Low Power Instr. Amp*	8-Dip	16.39	13.79	12.67
INA118U	INA118U-ND	Precision Low Power Instr. Amp*	8-SOIC	12.76	10.73	9.86
INA118UB	INA118UB-ND	Precision Low Power Instr. Amp	8-SOIC	18.59	15.64	14.37
INA121P	INA121P-ND	Low Power FET Instrumentation Amp	8-Dip	8.88	7.28	6.57
INA121PA	INA121PA-ND	Low Power FET Instrumentation Amp	8-Dip	6.25	5.13	4.63
INA121U	INA121U-ND	Low Power FET Instrumentation Amp*	8-SOIC	10.13	8.31	7.50
INA121UA	INA121UA-ND	Low Power FET Instrumentation Amp	8-SOIC	7.50	6.15	5.55
INA121UA/2K5	INA121UATR-ND	Low Power FET Instrumentation Amp*	8-SOIC	8125.00/2,500		
INA121U/2K5	INA121UTR-ND	Low Power FET Instrumentation Amp*	8-SOIC	11537.50/2,500		
INA122P	INA122P-ND	Single Supply, Micropower Instr. Amp	8-Dip	8.00	6.56	5.92
INA122PA	INA122PA-ND	Single Supply, Micropwr Instr. Amp*	8-Dip	6.86	5.52	5.03
INA122U	INA122U-ND	Single Supply, Micropower Instr. Amp	8-SOIC	9.25	7.59	6.85
INA122UA	INA122UA-ND	Single Supply, MPU Instr. Amp*	8-SOIC	7.38	6.05	5.46

AMPLIFIERS

Texas Instruments Digi-Reel® (Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
INA125P	INA125P-ND	Instr. Amp with Precision Voltage Ref*	16-Dip	6.38	5.23	4.72
INA125PA	INA125PA-ND	Instr. Amp with Precision Voltage Ref	16-Dip	5.74	4.62	4.21
INA125U	INA125U-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	7.50	6.15	5.55
INA125UA	INA125UA-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	6.25	5.13	4.63
INA126ECT	INA126ECT-ND	Micropower Instrumentation Amp	8-MSOP	4.86	3.97	3.57
INA126E/250	INA126ETR-ND	Micropower Instrumentation Amp	8-MSOP	749.25/250		
INA126EA/250	INA126EACT-ND	Micropower Instrumentation Amp	8-MSOP	3.84	3.14	2.82
INA126EA/250	INA126EATR-ND	Micropower Instrumentation Amp	8-MSOP	592.00/250		
INA126P	INA126P-ND	Micropower Instrumentation Amp	8-Dip	3.72	3.00	2.73
INA126PA	INA126PA-ND	Micropower Instrumentation Amp*	8-Dip	2.80	2.25	2.05
INA126U	INA126U-ND	Micropower Instrumentation Amp*	8-SOIC	4.40	3.54	3.22
INA126UA	INA126UA-ND	Micropower Instrumentation Amp*	8-SOIC	3.47	2.79	2.55
INA128P	INA128P-ND	Precision Low Power Instr. Amp*	8-Dip	11.75	9.64	8.70
INA128PA	INA128PA-ND	Precision Low Power Instr. Amp*	8-Dip	7.25	5.95	5.37
INA128U	INA128U-ND	Precision Low Power Instr. Amp	8-SOIC	11.70	9.85	9.05
INA128UA	INA128UA-ND	Precision Low Power Instr. Amp	8-SOIC	8.80	7.22	6.52
INA129MDREP	296-25555-1-ND	Low Power Instr. Op Amp* ***NEW!***	8-SOIC	18.86	15.99	14.76
INA129MDREP	296-25555-2-ND	Low Power Instr. Op Amp* ***NEW!***	8-SOIC	26137.50/2,500		
INA129P	INA129P-ND	Precision Low Power Instr. Amp*	8-Dip	8.08	6.63	5.98
INA129PA	INA129PA-ND	Precision Low Power Instr. Amp*	8-Dip	7.35	6.03	5.44
INA129U	INA129U-ND	Precision Low Power Instr. Amp*	8-SOIC	9.55	7.84	7.07
INA129UA	INA129UA-ND	Precision Low Power Instr. Amp	8-SOIC	8.83	7.24	6.54
INA131BP	INA131BP-ND	Precision, Gain=100, Instr. Amp	8-Dip	12.54	10.55	9.69
INA132U	INA132U-ND	Low Power, Single-Supply Instr. Amp*	8-SOIC	4.90	3.94	3.59
INA132UA	INA132UA-ND	Low Power, Single-Supply Instr. Amp*	8-SOIC	3.92	3.15	2.87
INA133UA	INA133UA-ND	High Speed Precision Difference Amp*	8-SOIC	3.92	3.15	2.87
INA133U	INA133U-ND	High Speed Precision Difference Amp*	8-SOIC	4.90	3.94	3.59
INA134PA	INA134PA-ND	Audio Differential Line Receiver	8-Dip	2.94	2.37	2.16
INA134UA	INA134UA-ND	Audio Differential Line Receiver*	8-SOIC	3.64	2.93	2.67
INA137PA	INA137PA-ND	Audio Differential Line Receiver	8-Dip	2.94	2.37	2.16
INA137UA	INA137UA-ND	Audio Differential Line Receiver	8-SOIC	3.64	2.93	2.67
INA138NA/250	INA138NACT-ND	High-Side Current Shunt Monitor*	SOT-23-5	2.63	2.03	1.84
INA138NA/250	INA138NATR-ND	High-Side Current Shunt Monitor*	SOT-23-5	375.00/250		
INA139NA/250	INA139NA/250CT-ND	2.7V~40V Current Shunt Monitor*	SOT-23-5	2.63	2.03	1.84
INA139NA/250	INA139NA/250TR-ND	2.7V~40V Current Shunt Monitor*	SOT-23-5	375.00/250		
INA139QPWRQ1	296-17088-1-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	2.80	2.16	1.96
INA139QPWRQ1	296-17088-2-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	2160.00/2,000		
INA141U	INA141U-ND	Precision LP, Gain=10,100 Instr. Amp*	8-SOIC	13.90	11.70	10.75
INA141UA	INA141UA-ND	Precision LP, Gain=10,100 Instr. Amp	8-SOIC	10.23	8.39	7.57
INA143U	INA143U-ND	High Speed Diff. Gain=10 Instr. Amp*	8-SOIC	4.62	3.72	3.39
INA143UA	INA143UA-ND	High Speed Diff. Gain=10 Instr. Amp*	8-SOIC	3.64	2.93	2.67
INA145UA	INA145UA-ND	Programmable Difference Amp*	8-SOIC	5.04	4.05	3.69
INA146UA	INA146UA-ND	High-Voltage Differential Amp	8-SOIC	5.74	4.62	4.21
INA148QDRQ1	296-24492-1-ND	200V Differential Amp* ***NEW!***	8-SOIC	7.35	6.01	5.39
INA148QDRQ1	296-24492-2-ND	200V Differential Amp* ***NEW!***	8-SOIC	8146.25/2,500		
INA148UA	INA148UA-ND	Common-Mode Instrumentation Amp*	8-SOIC	6.25	5.13	4.63
INA154U	INA154U-ND	High-Speed Precision G=1 Diff. Amp*	8-SOIC	4.62	3.72	3.39
INA154UA	INA154UA-ND	High-Speed Precision G=1 Diff. Amp*	8-SOIC	2.94	2.37	2.16
INA155EA/250	INA155EACT-ND	R/R CMOS Instrumentation Amp	8-MSOP	3.75	3.07	2.75
INA155EA/250	INA155EATR-ND	R/R CMOS Instrumentation Amp	8-MSOP	578.25/250		
INA155U	INA155U-ND	R/R CMOS Instrumentation Amp*	8-SOIC	4.34	3.49	3.18
INA155UA	INA155UA-ND	R/R CMOS Instrumentation Amp*	8-SOIC	3.64	2.93	2.67
INA157U	INA157U-ND	HS Precision G=1/2 or G=2 Diff. Amp*	8-SOIC	4.62	3.72	3.39
INA157UA	INA157UA-ND	HS Precision G=1/2 or G=2 Diff. Amp*	8-SOIC	3.64	2.93	2.67
INA159AIDGKT	296-18688-1-ND	Precision Gain of 0.2 Level Translation Diff. Amp*	8-MSOP	5.55	4.54	4.07
INA159AIDGKT	296-18688-2-ND	Precision Gain of 0.2 Level Translation Diff. Amp*	8-MSOP	855.75/250		
INA163UA	INA163UA-ND	LN, Low Distort. Instr. Amp*	14-SOIC	8.75	7.18	6.48
INA163UAG4	296-24875-1-ND	LN, Low Distort. Instr. Amp* ***NEW!***	14-SOIC	7.37	6.12	5.56
INA163UAG4	296-24875-2-ND	LN, Low Distort. Instr. Amp* ***NEW!***	14-SOIC	9035.00/2,500		
INA163UA/2K5	INA163UATR-ND	LN, Low Distort. Instr. Amp*	14-SOIC	9425.00/2,500		
INA166UA	INA166UA-ND	Low Noise Instrumentation Amp	14-SOIC	15.73	13.23	12.16
INA166UA/2K5	INA166UATR-ND	Low Noise Instrumentation Amp*	14-SOIC	18965.63/2,500		
INA168NA/250	INA168NACT-ND	High-Side Current-Shunt Monitor	SOT-23-5	3.30	2.70	2.42
INA168NA/250	INA168NATR-ND	High-Side Current-Shunt Monitor	SOT-23-5	508.75/250		
INA168QPWRQ1	296-17201-1-ND	High-Side Current-Shunt Monitor	8-TSSOP	3.45	2.82	2.53
INA169NA/250	INA169NA/250CT-ND	2.7V-60V Current-Shunt Monitor*	SOT-23-5	3.33	2.57	2.33
INA169NA/250	INA169NA/250TR-ND	2.7V-60V Current-Shunt Monitor*	SOT-23-5	475.00/250		
INA170EA/2K5	INA170EA/2K5CT-ND	Bidirectional Current-Shunt Monitor*	8-MSOP	3.33	2.57	2.33
INA170EA/2K5	INA170EA/2K5TR-ND	Bidirectional Current-Shunt Monitor*	8-MSOP	3207.50/2,500		
INA193AIDBVT	296-17163-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA193AIDBVT	296-17163-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	475.00/250		
INA193AMDBVREP	296-22154-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	7.20	5.88	5.28
INA193AQDBVRQ1	296-21443-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA193AQDBVRQ1	296-21443-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3849.00/3,000		
INA194AIDBVR	296-26066-1-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	2.80	2.16	1.96
INA194AIDBVR	296-26066-2-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	3240.00/3,000		
INA194AIDBVT	296-17164-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA194AIDBVT	296-17164-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	475.00/250		
INA195AIDBVR	296-26067-1-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	2.80	2.16	1.96
INA195AIDBVR	296-26067-2-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	3240.00/3,000		
INA195AQDBVRQ1	296-22156-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA196AIDBVR	296-26068-1-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	2.80	2.16	1.96
INA196AIDBVR	296-26068-2-ND	-16V to 80V Current-Shunt Monitor* ***NEW!***	SOT-23-5	3240.00/3,000		
INA196AQDBVRQ1	296-22157-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA196AQDBVRQ1	296-22157-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3847.50/3,000		
INA197AIDBVT	296-17167-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA197AIDBVT	296-17167-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	475.00/250		
INA198AIDBVT	296-17168-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3.33	2.57	2.33
INA198AIDBVT	296-17168-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	475.00/250		
INA200AIDGKR	296-21331-1-ND	High-Side Current-Shunt Monitor	8-MSOP	1.71	1.35	1.22
INA201AIDGKT	296-26069-1-ND	High-Side Current-Shunt Monitor* ***NEW!***	8-MSOP	1.93	1.49	1.35

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
INA201AIDGKT	296-26069-2-ND	High-Side Current-Shunt Monitor* ***NEW!***	8-MSOP	275.00/250		
INA202AID	296-23160-5-ND	High-Side Current-Shunt Monitor	8-SOIC	1.71	1.38	1.24
INA203AIDGSR	296-21700-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	1.71	1.35	1.22
INA203AIDGSR	296-21700-2-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	1575.00/2,500		
INA206AID	296-20677-5-ND	Unidirectional, Current-Shunt Monitor*	14-SOIC	1.71	1.38	1.24
INA207AID	296-20720-5-ND	Unidirectional Measurement Current-Shunt Monitor	14-SOIC	1.71	1.38	1.24
INA208AID	296-20721-5-ND	Unidirectional, Current-Shunt Monitor	14-SOIC	1.71	1.38	1.24
INA209AIPWR	296-21951-1-ND	High Side Measurement, Bidirectional Current/Power Monitor	16-TSSOP	6.63	5.50	5.00
INA209AIPWR	296-21951-2-ND	High Side Measurement, Bidirectional Current/Power Monitor	16-TSSOP	6500.00/2,000		
INA210AIDCKT	296-23420-1-ND	200V/V, Voltage Output Current Shunt Monitor	SC70-6	2.63	2.03	1.84
INA210AIDCKT	296-23420-2-ND	200V/V, Voltage Output Current Shunt Monitor	SC70-6	375.00/250		
INA210AIRSWT	296-24616-1-ND	200V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-UQFN	2.63	2.03	1.84
INA210AIRSWT	296-24616-2-ND	200V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-UQFN	375.00/250		
INA211AIDCKT	296-23585-1-ND	500V/V, Voltage Output Current Shunt Monitor	SC70-6	2.63	2.03	1.84
INA211AIDCKT	296-23585-2-ND	500V/V, Voltage Output Current Shunt Monitor	SC70-6	375.00/250		
INA213AIDCKR	296-26072-1-ND	50V/V, Voltage Output Current Shunt Monitor* ***NEW!***	SC70-6	2.28	1.76	1.60
INA213AIDCKR	296-26072-2-ND	50V/V, Voltage Output Current Shunt Monitor* ***NEW!***	SC70-6	2634.00/3,000		
INA213AIDCKT	296-23421-1-ND	50V/V, Voltage Output Current Shunt Monitor	SC70-6	2.63	2.03	1.84
INA213AIDCKT	296-23421-2-ND	50V/V, Voltage Output Current Shunt Monitor	SC70-6	375.00/250		
INA213AIRSWT	296-24617-1-ND	50V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-UQFN	2.63	2.03	1.84
INA213AIRSWT	296-24617-2-ND	50V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-UQFN	375.00/250		
INA213AQDCKRQ1	296-24493-1-ND	Voltage Output Current Shunt Monitor* ***NEW!***	SC70-6	2.80	2.16	1.96
INA213AQDCKRQ1	296-24493-2-ND	Voltage Output Current Shunt Monitor* ***NEW!***	SC70-6	3240.00/3,000		
INA214AIDCKT	296-23422-1-ND	100V/V, Voltage Output Current Shunt Monitor	SC70-6	2.63	2.03	1.84
INA214AIDCKT	296-23422-2-ND	100V/V, Voltage Output Current Shunt Monitor	SC70-6	375.00/250		
INA214AIRSWT	296-24817-1-ND	100V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-QFN	2.63	2.03	1.84
INA214AIRSWT	296-24817-2-ND	100V/V, Voltage Output Current Shunt Monitor* ***NEW!***	10-QFN	375.00/250		
INA217AIP	296-13452-5-ND	LN, Low Distortion Instr. Amp	8-Dip	6.66	5.36	4.88
INA219AIDCNT	296-26073-1-ND	0~26V Bi-Directional Current Shunt Monitor* ***NEW!***	SOT-23-8	3.45	2.82	2.53
INA219AIDCNT	296-26073-2-ND	0~26V Bi-Directional Current Shunt Monitor* ***NEW!***	SOT-23-8	532.00/250		
INA219AIDR	296-23978-1-ND	0~26V Bi-Directional Current Shunt Monitor	8-SOIC	3.47	2.68	2.43
INA219AIDR	296-23978-2-ND	0~26V Bi-Directional Current-Shunt Monitor	8-SOIC	3342.50/2,500		
INA220AIDGST	296-24632-1-ND	0~26V Bi-Directional Current Shunt Monitor* ***NEW!***	10-MSOP	3.45	2.82	2.53
INA220AIDGST	296-24632-2-ND	0~26V Bi-Directional Current Shunt Monitor* ***NEW!***	10-MSOP	532.00/250		
INA271AIDR	296-21650-1-ND	20V Output, Unidirectional Measurement Current-Shunt Monitor	8-SOIC	1.52	1.20	1.08
INA321E/250	INA321ECT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	5.10	4.17	3.74
INA321E/250	INA321ETR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	786.25/250		
INA321EA/250	INA321EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.75	3.07	2.75
INA321EA/250	INA321EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	578.25/250		
INA322EA/250	INA322EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.30	2.70	2.42
INA322EA/250	INA322EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	508.75/250		
INA326EA/2K5	INA326EA/2K5CT-ND	Precision, R/R I/O Instr. Amp	8-MSOP	5.40	4.41	3.96
INA326EA/2K5	INA326EA/2K5TR-ND	Precision, R/R I/O Instr. Amp	8-MSOP	5985.00/2,500		
INA326EA/250	296-15312-1-ND	Precision, R/R I/O Instr. Amp	8-MSOP	6.30	5.15	4.62
INA327EA/2K5	INA327EA/2K5CT-ND	Precision, R/R I/O Instr. Amp with SD	10-MSOP	7.35	6.01	5.39
INA332AIDGKT	296-12204-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.10	1.62	1.47
INA332AIDGKT	296-12204-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	300.00/250		
INA333AIDGKR	296-23564-1-ND	Low Power, Precision Instr. Amp	8-MSOP	5.40	4.41	3.96
INA333AIDGKR	296-23564-2-ND	Low Power, Precision Instr. Amp	8-MSOP	5985.00/2,500		
INA333AIDGKT	296-23565-1-ND	Low Power, Precision Instr. Amp	8-MSOP	6.30	5.15	4.62
INA333AIDGKT	296-23565-2-ND	Low Power, Precision Instr. Amp	8-MSOP	971.25/250		
INA333AIDRGT	296-24575-1-ND	Low Power, Precision Instr. Amp* ***NEW!***	8-SON	6.30	5.15	4.62
INA333AIDRGT	296-24575-2-ND	Low Power, Precision Instr. Amp* ***NEW!***	8-SON	971.25/250		
INA337AIDGKT	296-13453-1-ND	Wide Temp., Precision Instr. Amplifier	8-MSOP	6.30	5.15	4.62
INA337AIDGKT	296-13453-2-ND	Wide Temp., Precision Instr. Amplifier	8-MSOP	971.25/250		
INA2126EA/250	INA2126EACT-ND	Dual, Micropower Instr. Amp	16-QSOP	6.00	4.90	4.40
INA2126EA/250	INA2126EATR-ND	Dual, Micropower Instr. Amp	16-QSOP	925.00/250		
INA2126E/250	INA2126ECT-ND	Dual, Micropower Instr. Amp	16-QSOP	7.41	6.06	5.44
INA2126E/250	INA2126ETR-ND	Dual, Micropower Instr. Amp	16-QSOP	1142.50/250		
INA2126P	INA2126P-ND	Dual, Micropower Instr. Amp	16-Dip	5.99	4.82	4.39
INA2126PA	INA2126PA-ND	Dual, Micropower Instr. Amp	16-Dip	4.54	3.65	3.33
INA2126U	INA2126U-ND	Dual, Micropower Instr. Amp	16-SOIC	6.92	5.56	5.07
INA2126UA	INA2126UA-ND	Dual, Micropower Instr. Amp	16-SOIC	5.46	4.39	4.00
INA2128U	INA2128U-ND	Dual, Low Power Instr. Amp	16-SOIC	18.61	15.66	14.39
INA2128UA	INA2128UA-ND	Dual, Low Power Instr. Amp	16-SOIC	12.34	10.38	9.54
INA2132U	INA2132U-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	6.75	5.54	5.00
INA2132UA	INA2132UA-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	6.02	4.84	4.41
INA2133U	INA2133U-ND	Dual, High-Speed, Diff. Amp	14-SOIC	6.58	5.29	4.82
INA2133UA	INA2133UA-ND	Dual, High-Speed, Diff. Amp	14-SOIC	5.04	4.05	3.69
INA2134PA	INA2134PA-ND	Dual, Audio Differential Line Receiver	14-Dip	4.76	3.83	3.49
INA2134UA	INA2134UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	5.74	4.62	4.21
INA2137PA	INA2137PA-ND	Dual, Audio Differential Line Receiver	14-Dip	4.76	3.83	3.49
INA2137UA	INA2137UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	5.74	4.62	4.21
INA2141U	INA2141U-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	19.03	16.01	14.71

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
INA2141UA	INA2141UA-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	14.21	11.96	10.99
INA2143U	INA2143U-ND	Dual, HS Precision Gain=10 Diff. Amp	14-SOIC	6.30	5.07	4.62
INA2143UA	INA2143UA-ND	Dual, HS Precision Gain=10 Diff. Amp	14-SOIC	4.76	3.83	3.49
INA2321EA/250	INA2321EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	6.00	4.90	4.40
INA2321EA/250	INA2321EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	925.00/250		
INA2331AIPWR	INA2331AIPWRCT-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	3.60	2.94	2.64
INA2332AIPWR	INA2332AIPWRCT-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	3.33	2.57	2.33
INA2332AIPWR	INA2332AIPWRTR-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	3207.50/2,500		
ISO121BG	296-12577-5-ND	2500 VRMS Precision Isolation Amp	40-CDip	140.76	126.92	122.76
ISO122JP	ISO122JP-ND	Low-Cost Precision Isolation Amp	16-Dip	21.70	18.45	17.09
ISO122JU	ISO122JU-ND	Low-Cost Precision Isolation Amp	28-SOIC	25.70	21.85	20.24
ISO122P	ISO122P-ND	Low-Cost Precision Isolation Amp	16-Dip	27.00	22.95	21.27
ISO122U	ISO122U-ND	Low-Cost Precision Isolation Amp	28-SOIC	31.00	26.35	24.42
ISO124P	ISO124P-ND	Low-Cost Precision Isolation Amp	16-Dip	18.26	15.36	14.11
ISO124U	ISO124U-ND	Low-Cost Precision Isolation Amp	28-SOIC	20.00	17.00	15.75
LF347BD	296-7136-5-ND	Quad WB JFET Op Amp	14-SOIC	.82	.64	.56
LF347D	296-7137-5-ND	Quad WB JFET Op Amp	14-SOIC	.82	.64	.56
LF347DR	296-7137-1-ND	Quad WB JFET Op Amp	14-SOIC	.75	.58	.51
LF347N	296-7138-5-ND	Quad WB JFET Op Amp	14-Dip	.75	.58	.51
LF353D	296-1384-5-ND	Dual JFET Op Amp	8-SOIC	.68	.51	.44
LF353DR	296-14587-1-ND	Dual JFET Op Amp	8-SOIC	.66	.47	.40
LF353DR	296-14587-2-ND	Dual JFET Op Amp	8-SOIC	465.00/2,500		
LF353P	296-7139-5-ND	Dual JFET Op Amp	8-Dip	.63	.47	.40
LF411CD	296-12846-5-ND	High Speed JFET Op Amp	8-SOIC	1.64	1.32	1.15
LF411CP	296-26079-5-ND	High Speed JFET Op Amp* ***NEW!***	8-Dip	1.71	1.38	1.24
LF412CD	296-7140-5-ND	Dual JFET Op Amp	8-SOIC	1.60	1.28	1.12
LF412CDR	296-14588-1-ND	Dual JFET Op Amp	8-SOIC	1.44	1.14	1.03
LF412CDR	296-14588-2-ND	Dual JFET Op Amp	8-SOIC	1330.00/2,500		
LF412CP	296-7141-5-ND	Dual JFET Op Amp	8-Dip	1.46	1.18	1.03
LM124DG4	296-26080-5-ND	Quad Op Amp* ***NEW!***	14-SOIC	.69	.54	.47
LM124DR	296-16907-1-ND	Quad Op Amp	14-SOIC	.70	.55	.48
LM124DR	296-16907-2-ND	Quad Op Amp	14-SOIC	577.50/2,500		
LM139ADG4	296-26081-5-ND	Quad Differential Comparator* ***NEW!***	14-SOIC	2.79	2.25	2.03
LM139J	296-26084-5-ND	Quad Differential Comparator* ***NEW!***	14-CDip	10.00	8.20	7.40
LM148J	296-26085-5-ND	Quad Op Amp* ***NEW!***	14-CDip	9.50	7.79	7.03
LM224AD	296-7029-5-ND	Quad Op Amp	14-SOIC	.58	.39	.32
LM224ADR	296-7029-1-ND	Quad Op Amp	14-SOIC	.55	.37	.30
LM224ADR	296-7029-2-ND	Quad Op Amp	14-SOIC	312.50/2,500		
LM224DR	296-12847-1-ND	Quad Op Amp	14-SOIC	.55	.37	.30
LM224DR	296-12847-2-ND	Quad Op Amp	14-SOIC	312.50/2,500		
LM224KAN	296-18434-5-ND	Quad Op Amp	14-Dip	.60	.45	.38
LM224KN	296-18436-5-ND	Quad Op Amp	14-Dip	.70	.52	.45
LM224N	296-7030-5-ND	Quad Op Amp	14-Dip	.43	.32	.27
LM236D-2-5	296-7031-5-ND	2.5V Integrated Reference Circuit	8-SOIC	2.17	1.75	1.58
LM248D	296-6622-5-ND	Quad Op Amp	14-SOIC	.57	.42	.36
LM248N	296-6623-5-ND	Quad Op Amp	14-Dip	.62	.46	.39
LM258ADR	296-15169-1-ND	Dual Op Amp	8-SOIC	.58	.38	.32
LM258ADR	296-15169-2-ND	Dual Op Amp	8-SOIC	330.00/2,500		
LM258D	296-6624-5-ND	Dual Op Amp	8-SOIC	.57	.38	.31
LM258DGKR	296-17217-1-ND	Dual Op Amp	8-MSOP	.54	.36	.29
LM258DGKR	296-17217-2-ND	Dual Op Amp	8-MSOP	305.00/2,500		
LM258DR	296-14591-1-ND	Dual Op Amp	8-SOIC	.54	.36	.29
LM258DR	296-14591-2-ND	Dual Op Amp	8-SOIC	305.00/2,500		
LM258P	296-6625-5-ND	Dual Op Amp	8-Dip	.57	.38	.31
LM293ADR	296-26090-1-ND	Dual Differential Comparator* ***NEW!***	8-SOIC	.58	.38	.32
LM293ADR	296-26090-2-ND	Dual Differential Comparator* ***NEW!***	8-SOIC	330.00/2,500		
LM311PW	296-26091-5-ND	Diff. Comparator with Strobes* ***NEW!***	8-TSSOP	.57	.42	.36
LM318D	296-9538-5-ND	Single High Speed Op Amp	8-SOIC	1.68	1.35	1.18
LM318DR	296-24358-1-ND	Single High Speed Op Amp* ***NEW!***	8-SOIC	1.52	1.20	1.08
LM318DR	296-24358-2-ND	Single High Speed Op Amp* ***NEW!***	8-SOIC	1400.00/2,500		
LM318P	296-9539-5-ND	Single High Speed Op Amp	8-Dip	1.71	1.38	1.24
LM324AD	296-9540-5-ND	Quad General Purpose Op Amp	14-SOIC	.51	.38	.33
LM324ADR	296-9540-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.36	.31
LM324ADR	296-9540-2-ND	Quad General Purpose Op Amp	14-SOIC	352.50/2,500		
LM324ADBR	296-9541-1-ND	Quad General Purpose Op Amp	14-SSOP	.55	.39	.33
LM324ADBR	296-9541-2-ND	Quad General Purpose Op Amp	14-SSOP	310.00/2,000		
LM324AN	296-9542-5-ND	Quad General Purpose Op Amp	14-Dip	.55	.41	.35
LM324ANSR	296-9543-1-ND	Quad General Purpose Op Amp	14-SOP	.55	.39	.33
LM324ANSR	296-9543-2-ND	Quad General Purpose Op Amp	14-SOP	310.00/2,000		
LM324APWR	296-9544-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.36	.31
LM324APWR	296-9544-2-ND	Quad General Purpose Op Amp	14-TSSOP	282.00/2,000		
LM324D	296-1390-5-ND	Quad General Purpose Op Amp	14-SOIC	.53	.36	.29
LM324DR	296-14597-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.33	.27
LM324DR	296-14597-2-ND	Quad General Purpose Op Amp	14-SOIC	285.00/2,500		
LM324KAN	296-17882-5-ND	Quad General Purpose Op Amp	14-Dip	.70	.52	.45
LM324KN	296-18451-5-ND	Quad General Purpose Op Amp	14-Dip	.65	.48	.42
LM324KNSR	296-18452-1-ND	Quad General Purpose Op Amp	14-SOP	.64	.45	.39
LM324N	296-1391-5-ND	Quad General Purpose Op Amp	14-Dip	.49	.37	.31
LM324NSR	296-26097-1-ND	Quad Op Amp* ***NEW!***	14-SOP	.54	.36	.29
LM324NSR	296-26097-2-ND	Quad Op Amp* ***NEW!***	14-SOP	244.00/2,000		
LM324PW	296-26098-5-ND	Quad Op Amp* ***NEW!***	14-TSSOP	.57	.38	.31
LM324PWR	296-9545-1-ND	Quad General Purpose Op Amp	14-TSSOP	.54	.36	.30
LM324PWR	296-9545-2-ND	Quad General Purpose Op Amp	14-TSSOP	248.00/2,000		
LM339APW	296-26099-5-ND	Quad Differential Comparator* ***NEW!***	14-TSSOP	.45	.34	.29
LM339NSR	296-26100-1-ND	Quad Differential Comparator* ***NEW!***	14-SO	.54	.36	.29
LM339NSR	296-26100-2-ND	Quad Differential Comparator* ***NEW!***	14-SO	244.00/2,000		
LM348D	296-9552-5-ND	Quad General Purpose Op Amp	14-SOIC	.57	.42	.36
LM348DR	296-14600-1-ND	Quad General Purpose Op Amp	14-SOIC	.55	.39	.33
LM348DR	296-14600-2-ND	Quad General Purpose Op Amp	14-SOIC	387.50/2,500		
LM348N	296-12849-5-ND	Quad General Purpose Op Amp	14-Dip	.62	.46	.39
LM348NSR	296-26102-1-ND	Quad Op Amp* ***NEW!***	14-SOP	.61	.43	.37
LM348NSR	296-26102-2-ND	Quad Op Amp* ***NEW!***	14-SOP	342.00/2,000		
LM358AD	296-9553-5-ND	Dual Op Amp	8-SOIC	.57	.38	.31
LM358ADGKR	296-18455-1-ND	Dual Op Amp	8-MSOP	.54	.36	.29
LM358ADGKR	296-18455-2-ND	Dual Op Amp	8-MSOP	305.00/2,500		
LM358ADR	296-14601-1-ND	Dual Op Amp	8-SOIC	.54	.36	.29
LM358ADR	296-14601-2-ND	Dual Op Amp	8-SOIC	305.00/2,500		
LM358AP	296-9554-5-ND	Dual Op Amp	8-Dip	.48	.35	.30
LM358APWR	296-18456-1-ND	Dual Op Amp	8-TSSOP	.59	.39	.32
LM358APWR	296-18456-2-ND	Dual Op Amp	8-TSSOP	270.00/2,000		
LM358D	296-1014-5-ND	Dual Op Amp	8-SOIC	.52	.35	.28

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM358DR	296-1014-1-ND	Dual Op Amp	8-SOIC	.49	.32	.27
LM358DR	296-1014-2-ND	Dual Op Amp	8-SOIC	277.50/2,500		
LM358P	296-1395-5-ND	Dual Op Amp	8-Dip	.44	.33	.28
LM358PSR	296-1396-1-ND	Dual Op Amp	8-SOP	.54	.36	.29
LM358PSR	296-1396-2-ND	Dual Op Amp	8-SOP	244.00/2,000		
LM358PWR	296-9555-1-ND	Dual Op Amp	8-TSSOP	.54	.36	.30
LM358PWR	296-9555-2-ND	Dual Op Amp	8-TSSOP	248.00/2,000		
LM392D	296-26105-5-ND	LP Op Amp and Voltage Comparator* **NEW!**	8-SOIC	1.60	1.28	1.12
LM392DR	296-20853-1-ND	LP Op Amp and Voltage Comparator	8-SOIC	1.44	1.14	1.03
LM392P	296-20854-5-ND	LP Op Amp and Voltage Comparator	8-Dip	1.33	1.07	.94
LM393PW	296-26106-5-ND	Dual Differential Comparator* **NEW!**	8-TSSOP	.57	.38	.31
LM2900N	296-9526-5-ND	Quad Op Amp	14-Dip	.55	.37	.30
LM2901PW	296-26088-5-ND	Quad Differential Comparator* **NEW!**	14-TSSOP	.57	.38	.31
LM2902D	296-6598-5-ND	Quad Op Amp	14-SOIC	.57	.38	.31
LM2902DR	296-14594-1-ND	Quad Op Amp	14-SOIC	.53	.35	.29
LM2902DR	296-14594-2-ND	Quad Op Amp	14-SOIC	300.00/2,500		
LM2902KAVQDR	296-17253-1-ND	Quad Op Amp	14-SOIC	.69	.54	.48
LM2902KAVQPWRQ1	296-23358-1-ND	Quad Op Amp	14-TSSOP	.71	.55	.49
LM2902KAVQPWRQ1	296-23358-2-ND	Quad Op Amp	14-TSSOP	466.00/2,000		
LM2902KDR	296-18440-5-ND	Quad Op Amp	14-SOIC	.47	.32	.26
LM2902KN	296-18441-5-ND	Quad Op Amp	14-Dip	.52	.35	.28
LM2902KNSR	296-18442-1-ND	Quad Op Amp	14-SOP	.58	.38	.32
LM2902N	296-6599-5-ND	Quad Op Amp	14-Dip	.45	.34	.29
LM2902PWR	296-6600-1-ND	Quad Op Amp	14-TSSOP	.53	.35	.29
LM2902PWR	296-6600-2-ND	Quad Op Amp	14-TSSOP	240.00/2,000		
LM2902QDRG4Q1	296-24705-1-ND	Quad Op Amp* **NEW!**	14-SOIC	.61	.43	.37
LM2902QDRG4Q1	296-24705-2-ND	Quad Op Amp* **NEW!**	14-SOIC	430.00/2,500		
LM2904AVQDRG4Q1	296-24707-1-ND	Dual Gen. Purp. Op Amp* **NEW!**	8-SOIC	.71	.55	.49
LM2904AVQDRG4Q1	296-24707-2-ND	Dual Gen. Purp. Op Amp* **NEW!**	8-SOIC	582.50/2,500		
LM2904AVQPWRG4	296-22007-1-ND	Dual General Purpose Op Amp	8-TSSOP	.69	.54	.48
LM2904AVQPWRQ1	296-17791-1-ND	Dual General Purpose Op Amp	8-TSSOP	.71	.55	.49
LM2904AVQPWRQ1	296-17791-2-ND	Dual General Purpose Op Amp	8-TSSOP	466.00/2,000		
LM2904D	296-9527-5-ND	Dual General Purpose Op Amp	8-SOIC	.57	.38	.31
LM2904DGKR	296-17931-1-ND	Dual General Purpose Op Amp	8-MSOP	.53	.35	.29
LM2904DGKR	296-17931-2-ND	Dual General Purpose Op Amp	8-MSOP	300.00/2,500		
LM2904DR	296-14596-1-ND	Dual General Purpose Op Amp	8-SOIC	.53	.35	.29
LM2904P	296-9528-5-ND	Dual General Purpose Op Amp	8-Dip	.45	.34	.29
LM2904PW	296-26089-5-ND	Dual Op Amp* **NEW!**	8-TSSOP	.57	.38	.31
LM2904PWR	296-9529-1-ND	Dual General Purpose Op Amp	8-TSSOP	.53	.35	.29
LM2904PWR	296-9529-2-ND	Dual General Purpose Op Amp	8-TSSOP	240.00/2,000		
LM2904QDRG4Q1	296-24708-1-ND	Dual Gen. Purp. Op Amp* **NEW!**	8-SOIC	.61	.43	.37
LM2904QDRG4Q1	296-24708-2-ND	Dual Gen. Purp. Op Amp* **NEW!**	8-SOIC	430.00/2,500		
LM2904QDRQ1	296-15184-1-ND	Dual General Purpose Op Amp	8-SOIC	.61	.43	.37
LM2904QDRQ1	296-15184-2-ND	Dual General Purpose Op Amp	8-SOIC	430.00/2,500		
LM2904VQDRQ1	296-17099-1-ND	Dual General Purpose Op Amp	8-SOIC	.72	.51	.44
LM2904VQDRQ1	296-17099-2-ND	Dual General Purpose Op Amp	8-SOIC	507.50/2,500		
LM3900D	296-9564-5-ND	Quad Op Amp	14-SOIC	.55	.37	.30
LM3900DR	296-14604-1-ND	Quad Op Amp	14-SOIC	.51	.34	.28
LM3900DR	296-14604-2-ND	Quad Op Amp	14-SOIC	290.00/2,500		
LM3900N	296-9565-5-ND	Quad Op Amp	14-Dip	.50	.34	.27
LMV321IDBVR	296-9567-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.75	.58	.51
LMV321IDBVR	296-9567-2-ND	Low Voltage R/R Op Amp	SOT-23-5	741.00/3,000		
LMV321IDBVRQ1	296-20922-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.82	.64	.57
LMV321IDBVRQ1	296-20922-2-ND	Low Voltage R/R Op Amp	SOT-23-5	813.00/3,000		
LMV321IDCKR	296-9568-1-ND	Low Voltage R/R Op Amp	SC70-5	.75	.58	.51
LMV321IDCKR	296-9568-2-ND	Low Voltage R/R Op Amp	SC70-5	741.00/3,000		
LMV324ID	296-9569-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.75	.65
LMV324IDR	296-9569-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.88	.68	.60
LMV324IDR	296-9569-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	725.00/2,500		
LMV324IPWR	296-9570-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.88	.68	.60
LMV324IPWR	296-9570-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	580.00/2,000		
LMV324QDR	296-17467-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.97	.75	.66
LMV324QDR	296-17467-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	797.50/2,500		
LMV324QPWR	296-17468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.97	.75	.66
LMV324QPWR	296-17468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	638.00/2,000		
LMV324QPWRG4Q1	296-24417-1-ND	Quad Low Volt. R/R Op Amp* **NEW!**	14-TSSOP	.99	.78	.71
LMV324QPWRG4Q1	296-24417-2-ND	Quad Low Volt. R/R Op Amp* **NEW!**	14-TSSOP	728.00/2,000		
LMV324SIDR	296-15361-1-ND	Quad Low Voltage R/R Op Amp	16-SOIC	1.06	.82	.72
LMV324SIDR	296-15361-2-ND	Quad Low Voltage R/R Op Amp	16-SOIC	870.00/2,500		
LMV339IPW	296-26114-5-ND	Quad Low Voltage Comparator* **NEW!**	14-TSSOP	1.09	.88	.77
LMV341IDBVR	296-17843-1-ND	Single R/R Out CMOS Op Amp	SOT-23-6	.88	.68	.60
LMV341IDBVR	296-17843-2-ND	Single R/R Out CMOS Op Amp	SOT-23-6	870.00/3,000		
LMV341IDCKR	296-17359-1-ND	Single R/R Out CMOS Op Amp	SC70-6	.88	.68	.60
LMV341IDCKR	296-17359-2-ND	Single R/R Out CMOS Op Amp	SC70-6	870.00/3,000		
LMV341QDBVRQ1	296-24890-1-ND	Single R/R Out CMOS Op Amp* **NEW!**	SOT-23-6	1.01	.79	.69
LMV341QDBVRQ1	296-24890-2-ND	Single R/R Out CMOS Op Amp* **NEW!**	SOT-23-6	1000.50/3,000		
LMV341QDCKRQ1	296-24893-1-ND	Single R/R Out CMOS Op Amp* **NEW!**	SC70-6	1.01	.79	.69
LMV341QDCKRQ1	296-24893-2-ND	Single R/R Out CMOS Op Amp* **NEW!**	SC70-6	1000.50/3,000		
LMV342IDGKR	296-22012-1-ND	Dual R/R Out CMOS Op Amp	8-MSOP	.95	.75	.68
LMV344IDR	296-20925-1-ND	Quad R/R Out CMOS Op Amp	14-SOIC	.95	.75	.68
LMV344IDR	296-20925-2-ND	Quad R/R Out CMOS Op Amp	14-SOIC	875.00/2,500		
LMV344IPWR	296-18596-1-ND	Quad R/R Out CMOS Op Amp	14-TSSOP	.95	.75	.68
LMV344IPWR	296-18596-2-ND	Quad R/R Out CMOS Op Amp	14-TSSOP	700.00/2,000		
LMV358IDR	296-9571-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.88	.68	.60
LMV358IDR	296-9571-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	725.00/2,500		
LMV358IPWR	296-9572-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.88	.68	.60
LMV358IPWR	296-9572-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	580.00/2,000		
LMV358QDR	296-17471-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.97	.75	.66
LMV393ID	296-26115-5-ND	Dual Low Voltage Comparator* **NEW!**	8-SOIC	.96	.75	.65
LMV710IDBVR	296-17853-1-ND	Low Power R/R I/O Op Amp	SOT-23-5	1.25	.99	.90
LMV710IDBVR	296-17853-2-ND	Low Power R/R I/O Op Amp	SOT-23-5	1386.00/3,000		
LMV710IDCKR	296-17854-1-ND	Low Power R/R I/O Op Amp	SC70-5	1.25	.99	.90
LMV710IDCKR	296-17854-2-ND	Low Power R/R I/O Op Amp	SC70-5	1386.00/3,000		
LMV711IDBVR	296-18000-1-ND	Single, Low Power, R/R I/O Op Amp	SOT-23-5	1.25	.99	.90
LMV712IDGSR	296-20926-1-ND	Dual, Low Power, R/R In/Out Op Amp	10-MSOP	1.71	1.35	1.22
LMV715IDBVR	296-20927-1-ND	Single Low Power, R/R In/Out Op Amp	SOT-23-6	1.37	1.08	.98
LMV715IDCKR	296-20928-1-ND	Single Low Power, R/R In/Out Op Amp	SC70-6	1.37	1.08	.98
LMV821DBVR	296-18459-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	1.79	1.41	1.27
LMV821DCKR	296-18460-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	1.79	1.41	1.27
LMV821DCKR	296-18460-2-ND	Single, Low Voltage, R/R Op Amp	SC70-5	1974.00/3,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV821IDBVR	296-18461-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	1.79	1.41	1.27
LMV821IDBVR	296-18461-2-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	1974.00/3,000		
LMV821IDCKR	296-18462-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	1.79	1.41	1.27
LMV822D	296-26116-5-ND	Dual, Low Voltage R/R Op Amp* **NEW!**	8-SOIC	1.09	.88	.77
LMV824DR	296-18465-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1.06	.84	.76
LMV824IDGVR	296-17523-1-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1.06	.84	.76
LMV824IDR	296-18466-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1.06	.84	.76
LMV824IPWR	296-18467-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	1.06	.84	.76
LMV824IPWR	296-18467-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	784.00/2,000		
LMV824PW	296-26117-5-ND	Quad Low Voltage R/R Op Amp* **NEW!**	14-TSSOP	1.18	.95	.83
LMV931IDBVR	296-18469-1-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1.10	.87	.79
LMV931IDBVR	296-18469-2-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1218.00/3,000		
LMV931IDCKR	296-17996-1-ND	1.8V R/R In/Out Op Amp	SC70-5	1.10	.87	.79
LMV932ID	296-26118-5-ND	1.8V R/R In/Out Op Amp* **NEW!**	8-SOIC	1.72	1.38	1.21
LMV932IDGKR	296-17910-1-ND	1.8V Dual Op Amp	8-MSOP	1.56	1.23	1.11
LMV932IDR	296-17911-1-ND	1.8V Dual Op Amp	8-SOIC	1.56	1.23	1.11
LMV932IDR	296-17911-2-ND	1.8V Dual Op Amp	8-SOIC	1435.00/2,500		
LMV934IPWR	296-20930-1-ND	1.8V Quad Op Amp	14-TSSOP	1.60	1.26	1.14
LMV934IPWR	296-20930-2-ND	1.8V Quad Op Amp	14-TSSOP	1176.00/2,000		
LMV981IDCKR	296-18471-1-ND	1.8V R/R In/Out Op Amp w/Shutdown	SC70-6	1.29	1.02	.92
LMV982IDGSR	296-17949-1-ND	1.8V R/R In/Out Op Amp	10-MSOP	1.37	1.08	.98
LOG101AID	296-12850-5-ND	Precision Logarithmic/Log Ratio Amp	8-SOIC	18.37	15.45	14.20
LOG102AID	LOG102AID-ND	Precision Logarithmic/Log Ratio Amp	14-SOIC	19.14	16.10	14.79
LOG104AID	296-12851-5-ND	Precision Logarithmic/Log Ratio Amp	8-SOIC	18.37	15.45	14.20
LOG112AID	296-13456-5-ND	Precision Logarithmic/Log Ratio Amp with On Chip 2.5 Volt. Reference	14-SOIC	20.90	17.58	16.15
LOG2112AIDW	296-13815-5-ND	Precision Logarithmic Amp	16-SOIC	26.70	22.70	21.03
LP324N	296-17954-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.66	.52	.45
LP324PWR	296-17955-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	.66	.51	.45
LP324PWR	296-17955-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	436.00/2,000		
LP2901DR	296-26119-1-ND	LP Quad Differential Comparator* **NEW!**	14-SOIC	.73	.57	.50
LP2901DR	296-26119-2-ND	LP Quad Differential Comparator* **NEW!**	14-SOIC	597.50/2,500		
LP2902N	296-17951-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.89	.71	.62
LP2902PWR	296-17952-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	1.01	.79	.69
LP2902PWR	296-17952-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	668.00/2,000		
LPV321DBVR	296-17715-1-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	1.01	.79	.69
LPV321DBVR	296-17715-2-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	1002.00/3,000		
LPV321DCKR	296-17716-1-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	1.01	.79	.69
LPV321DCKR	296-17716-2-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	1002.00/3,000		
LPV324D	296-26129-5-ND	Low Volt., LP, R/R Op Amp* **NEW!**	14-SOIC	1.26	1.01	.89
LPV358DDUR	296-17719-1-ND	Dual, Low Voltage, LP, R/R Op Amp	8-VSSOP	.95	.75	.68
LPV358DR	296-17720-1-ND	Dual, Low Voltage, LP, R/R Op Amp	8-SOIC	.95	.75	.68
LPV358DR	296-17720-2-ND	Dual, Low Voltage, LP, R/R Op Amp	8-SOIC	875.00/2,500		
LPV358IDGKR	296-17762-1-ND	Dual, Low Voltage, LP R/R Op Amp	8-MSOP	.95	.75	.68
LPV358IDGKR	296-17762-2-ND	Dual, Low Voltage, LP R/R Op Amp	8-MSOP	875.00/2,500		
LT1013CD	296-23225-5-ND	Dual Precision Op Amp	8-SOIC	2.33	1.88	1.69
LT1013CP	296-1399-5-ND	Dual Precision Op Amp	8-Dip	2.64	2.13	1.92
LT1013DD	296-1400-5-ND	Dual Precision Op Amp	8-SOIC	2.33	1.88	1.69
LT1013DDR	296-14615-1-ND	Dual Precision Op Amp	8-SOIC	2.28	1.76	1.60
LT1013DDR	296-14615-2-ND	Dual Precision Op Amp	8-SOIC	2195.00/2,500		
LT1013DID	296-26133-5-ND	Dual Precision Op Amp* **NEW!**	8-SOIC	2.33	1.88	1.69
LT1013DIDR	296-12982-1-ND	Dual Precision Op Amp	8-SOIC	2.28	1.76	1.60
LT1013DIDR	296-12982-2-ND	Dual Precision Op Amp	8-SOIC	2195.00/2,500		
LT1013DIP	296-7044-5-ND	Dual Precision Op Amp	8-Dip	2.17	1.75	1.58
LT1013DP	296-7045-5-ND	Dual Precision Op Amp	8-Dip	2.17	1.75	1.58
LT1014CN	296-14616-5-ND	Quad Precision Op Amp	14-Dip	5.32	4.28	3.90
LT1014DDW	296-26134-5-ND	Quad Precision Op Amp* **NEW!**	16-SOIC	6.44	5.18	4.72
LT1014DIDW	296-7046-5-ND	Quad Precision Op Amp	16-SOIC	6.44	5.18	4.72
LT1014DIN	296-15322-5-ND	Quad Precision Op Amp	14-Dip	5.88	4.73	4.31
LT1014DMDW	296-26135-5-ND	Quad Precision Op Amp* **NEW!**	16-SOIC	6.25	5.13	4.63
LT1014DN	296-7047-5-ND	Quad Precision Op Amp	14-Dip	5.88	4.73	4.31
LT1030CDR	296-14617-1-ND	Quad Low Power Line Driver	14-SOIC	3.15	2.43	2.21
MC1458D	296-9601-5-ND	Dual General Purpose Op Amp	8-SOIC	.63	.47	.40
MC1458P	296-1403-5-ND	Dual General Purpose Op Amp	8-Dip	.57	.43	.37
MC3303D	296-7033-5-ND	Quad LP Op Amp, -40°C to 85°C	14-SOIC	.99	.77	.67
MC3303N	296-7034-5-ND	Quad LP Op Amp, -40°C to 85°C	14-Dip	.91	.71	.62
MC3403D	296-7035-5-ND	Quad Low Power GP Op Amp	14-SOIC	.91	.71	.62
MC3403DR	296-14623-1-ND	Quad Low Power GP Op Amp	14-SOIC	.84	.65	.57
MC3403N	296-1406-5-ND	Quad Low Power GP Op Amp	14-Dip	.84	.65	.57
MC3403NSR	296-1407-1-ND	Quad Low Power GP Op Amp	14-SOP	.92	.72	.63
MC3403NSR	296-1407-2-ND	Quad Low Power GP Op Amp	14-SOP	606.00/2,000		
MC3487D	296-7039-5-ND	Quad Differential Line Driver	16-SOIC	1.18	.95	.83
MC33078DR	296-17723-1-ND	Dual High Speed Low Noise Op Amp	8-SOIC	.88	.68	.60
MC33078DR	296-17723-2-ND	Dual High Speed Low Noise Op Amp	8-SOIC	725.00/2,500		
MC33078P	296-17724-5-ND	Dual High Speed Low Noise Op Amp	8-Dip	.88	.69	.60
NE5532ADR	296-13621-1-ND	Dual Low Noise Op Amp	8-SOIC	1.06	.84	.76
NE5532ADR	296-13621-2-ND	Dual Low Noise Op Amp	8-SOIC	980.00/2,500		
NE5532AP	296-7040-5-ND	Dual Low Noise Op Amp	8-Dip	1.08	.87	.76
NE5532APSR	296-13103-1-ND	Dual Low Noise Op Amp	8-SOP	1.17	.93	.84
NE5532APSR	296-13103-2-ND	Dual Low Noise Op Amp	8-SOP	862.00/2,000		
NE5532DR	296-13622-1-ND	Dual Low Noise Op Amp	8-SOIC	.97	.75	.66
NE5532DR	296-13622-2-ND	Dual Low Noise Op Amp	8-SOIC	797.50/2,500		
NE5532P	296-1410-5-ND	Dual Low Noise Op Amp	8-Dip	1.00	.81	.71
NE5532PSR	296-12641-1-ND	Dual Low Noise Op Amp	8-SOP	1.06	.83	.73
NE5532PSR	296-12641-2-ND	Dual Low Noise Op Amp	8-SOP	702.00/2,000		
NE5534AD	296-26238-5-ND	Low Noise Op Amp* **NEW!**	8-SOIC	1.18	.95	.83
NE5534ADR	296-16943-1-ND	Low Noise HS Audio Op Amp	8-SOIC	1.06	.84	.76
NE5534ADR	296-16943-2-ND	Low Noise HS Audio Op Amp	8-SOIC	980.00/2,500		
NE5534AP	296-7042-5-ND	Low Noise HS Audio Op Amp	8-Dip	1.08	.87	.76
NE5534D	296-14346-5-ND	Low Noise HS Audio Op Amp	8-SOIC	1.05	.84	.74
NE5534DR	296-26239-1-ND	Low Noise Op Amp* **NEW!**	8-SOIC	.95	.75	.68
NE5534DR	296-26239-2-ND	Low Noise Op Amp* **NEW!**	8-SOIC	875.00/2,500		
NE5534P	296-7043-5-ND	Low Noise HS Audio Op Amp	8-Dip	.96	.77	.68
ONET1191PRGTT	296-20765-1-ND	11.3Gbps Limiting Amp	16-VQFN	12.06	10.01	9.10
ONET1191PRGTT	296-20765-2-ND	11.3Gbps Limiting Amp	16-VQFN	1933.75/250		
ONET2511TAY	296-17427-ND	2.5Gbps Transimpedance Amp, Bare-Die	—	10.25	8.41	7.59
ONET4211LDRGET	296-19280-1-ND	155Mbps to 4.25Gbps Laser Driver	24-QFN	12.88	10.92	10.08

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ONET9901PARGP	296-17055-5-ND	10.7Gbps Limiting Amp	20-VQFN	21.23	17.86	16.41
OP07CD	296-12852-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	1.47	1.18	1.03
OP07CDR	296-14626-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	1.33	1.05	.95
OP07CDR	296-14626-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC	1225.00/2,500		
OP07CP	296-12853-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	1.59	1.28	1.12
OP07DD	296-9621-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	1.26	1.01	.89
OP07DP	296-9622-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	1.16	.93	.81
OPA27GP	OPA27GP-ND	Compensated, LN, Precision Op Amp	8-Dip	3.05	2.46	2.24
OPA27GU	OPA27GU-ND	Compensated, LN, Precision Op Amp	8-SOIC	3.58	2.88	2.63
OPA37GP	OPA37GP-ND	Uncompensated, LN, Prec. Op Amp	8-Dip	3.19	2.57	2.34
OPA37GU	OPA37GU-ND	Uncompensated, LN, Prec. Op Amp	8-SOIC	3.72	3.00	2.73
OPA111AM	OPA111AM-ND	LN, Precision Op Amp (500μV Out)	TO-99	32.56	27.68	25.65
OPA111BM	OPA111BM-ND	LN, Precision Op Amp (250μV Out)	TO-99	48.99	42.37	39.72
OPA121KU	OPA121KU-ND	Low Cost, Precision DiFET Op Amp	8-SOIC	13.42	11.29	10.37
OPA124U	OPA124U-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	11.88	9.74	8.79
OPA124UA	OPA124UA-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	12.21	10.27	9.44
OPA128JM	OPA128JM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	56.80	50.12	47.61
OPA128KM	OPA128KM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	63.29	55.85	53.06
OPA128LM	OPA128LM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	67.47	60.32	57.25
OPA128SM	OPA128SM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	79.17	70.78	67.18
OPA129U	OPA129U-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	8.00	6.56	5.92
OPA129UB	OPA129UB-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	13.42	11.29	10.37
OPA130UA	OPA130UA-ND	Low Power, Precision, FET-In Op Amp	8-SOIC	4.76	3.83	3.49
OPA131U	OPA131U-ND	General Purpose FET-Input Op Amp	8-SOIC	6.30	5.07	4.62
OPA131UA	OPA131UA-ND	General Purpose FET-Input Op Amp	8-SOIC	3.64	2.93	2.67
OPA131UJ	OPA131UJ-ND	General Purpose FET-Input Op Amp	8-SOIC	2.79	2.25	2.03
OPA132U	OPA132U-ND	High Speed FET-Input Op Amp	8-SOIC	7.88	6.46	5.83
OPA132UA	OPA132UA-ND	High Speed FET-Input Op Amp	8-SOIC	4.90	3.94	3.59
OPA134PA	OPA134PA-ND	High Performance Audio Op Amp	8-Dip	2.85	2.30	2.07
OPA134UA	OPA134UA-ND	High Performance Audio Op Amp	8-SOIC	3.05	2.46	2.24
OPA137N/250	OPA137NCT-ND	Low Cost FET-Input Op Amp	SOT-23-5	3.15	2.58	2.31
OPA137N/250	OPA137NTR-ND	Low Cost FET-Input Op Amp	SOT-23-5	485.75/250		
OPA137NA/250	OPA137NACT-ND	Low Cost FET-Input Op Amp	SOT-23-5	2.45	1.89	1.72
OPA137NA/250	OPA137NATR-ND	Low Cost FET-Input Op Amp	SOT-23-5	350.00/250		
OPA137P	OPA137P-ND	Low Cost FET-Input Op Amp	8-Dip	2.95	2.38	2.14
OPA137PA	OPA137PA-ND	Low Cost FET-Input Op Amp	8-Dip	1.86	1.50	1.35
OPA137U	OPA137U-ND	Low Cost FET-Input Op Amp	8-SOIC	2.95	2.38	2.14
OPA137UA	OPA137UA-ND	Low Cost FET-Input Op Amp	8-SOIC	2.17	1.75	1.58
OPA177FP	OPA177FP-ND	Precision Op Amp	8-Dip	2.60	2.10	1.89
OPA177GP	OPA177GP-ND	Precision Op Amp	8-Dip	2.60	2.10	1.89
OPA177GS	OPA177GS-ND	Precision Op Amp	8-SOIC	3.01	2.43	2.19
OPA211AIDR	296-22634-1-ND	Low Power, Precision Op Amp	8-SOIC	9.14	7.59	6.90
OPA211AIDR	296-22634-2-ND	Low Power, Precision Op Amp	8-SOIC	11212.50/2,500		
OPA211AIDRGT	296-23412-1-ND	Low Power, Precision Op Amp	8-SON	10.60	8.80	8.00
OPA211AIDRGT	296-23412-2-ND	Low Power, Precision Op Amp	8-SON	1700.00/250		
OPA211ID	296-23958-5-ND	Low Power Precision Op Amp	8-SOIC	12.87	10.83	9.95
OPA211IDGKT	296-23959-1-ND	Low Power Precision Op Amp	8-MSOP	13.11	11.12	10.26
OPA211IDGKT	296-23959-2-ND	Low Power Precision Op Amp	8-MSOP	2208.75/250		
OPA227P	OPA227P-ND	High Precision, Low Noise Op Amp	8-Dip	6.38	5.13	4.68
OPA227PA	OPA227PA-ND	High Precision, Low Noise Op Amp	8-Dip	2.94	2.37	2.16
OPA227U	OPA227U-ND	High Precision, Low Noise Op Amp	8-SOIC	6.92	5.56	5.07
OPA227UA	OPA227UA-ND	High Precision, Low Noise Op Amp	8-SOIC	3.47	2.79	2.55
OPA227U/2K5	296-25819-1-ND	High Precision, Low Noise Op Amp* ***NEW!***	8-SOIC	6.84	5.59	5.02
OPA227U/2K5	296-25819-2-ND	High Precision, Low Noise Op Amp* ***NEW!***	8-SOIC	7580.00/2,500		
OPA228P	OPA228P-ND	Low Noise Precision Op Amp	8-Dip	6.38	5.13	4.68
OPA228PA	OPA228PA-ND	Low Noise Precision Op Amp	8-Dip	2.94	2.37	2.16
OPA228U	OPA228U-ND	Low Noise Precision Op Amp	8-SOIC	6.92	5.56	5.07
OPA228UA	OPA228UA-ND	Low Noise Precision Op Amp	8-SOIC	3.47	2.79	2.55
OPA234E/250	OPA234ECT-ND	Low Power Single-Supply Op Amp	8-MSOP	4.71	3.85	3.46
OPA234E/250	OPA234ETR-ND	Low Power Single-Supply Op Amp	8-MSOP	726.25/250		
OPA234EA/250	OPA234EACT-ND	Low Power Single-Supply Op Amp	8-MSOP	3.42	2.80	2.51
OPA234EA/250	OPA234EATR-ND	Low Power Single-Supply Op Amp	8-MSOP	527.25/250		
OPA234U	OPA234U-ND	Low Power Single-Supply Op Amp	8-SOIC	4.54	3.65	3.33
OPA234UA	OPA234UA-ND	Low Power Single-Supply Op Amp	8-SOIC	3.33	2.68	2.44
OPA237NA/250	OPA237NACT-ND	Single-Supply Op Amp	SOT-23-5	2.10	1.62	1.47
OPA237NA/250	OPA237NATR-ND	Single-Supply Op Amp	SOT-23-5	300.00/250		
OPA237NA/3K	296-26265-1-ND	Single-Supply Op Amp* ***NEW!***	SOT-23-5	1.93	1.49	1.35
OPA237NA/3K	296-26265-2-ND	Single-Supply Op Amp* ***NEW!***	SOT-23-5	2229.00/3,000		
OPA237UA	OPA237UA-ND	Single-Supply Op Amp	8-SOIC	2.02	1.63	1.47
OPA241PA	OPA241PA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-Dip	3.22	2.59	2.36
OPA241UA	OPA241UA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-SOIC	3.78	3.04	2.77
OPA244NA/250	OPA244NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.00	1.54	1.40
OPA244NA/250	OPA244NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	285.00/250		
OPA244PA	OPA244PA-ND	Single-Supply, Micropower Op Amp	8-Dip	1.61	1.30	1.17
OPA244UA	OPA244UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.92	1.55	1.40
OPA251PA	OPA251PA-ND	Single-Supply, Micropower Op Amp	8-Dip	3.22	2.59	2.36
OPA251UA	OPA251UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	3.78	3.04	2.77
OPA277P	OPA277P-ND	High Precision Op Amp	8-Dip	5.60	4.50	4.10
OPA277PA	OPA277PA-ND	High Precision Op Amp	8-Dip	2.51	2.03	1.83
OPA277U	OPA277U-ND	High Precision Op Amp	8-SOIC	6.13	4.93	4.49
OPA277UA	OPA277UA-ND	High Precision Op Amp	8-SOIC	2.80	2.25	2.05
OPA300AID	296-15087-5-ND	Low Noise, HS, 16-Bit CMOS Op Amp	8-SOIC	2.79	2.25	2.03
OPA301AID	296-17236-5-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	2.79	2.25	2.03
OPA330AID	296-25350-5-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	8-SOIC	1.71	1.38	1.24
OPA330AIDBVT	296-25307-1-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SOT-23-5	1.93	1.49	1.35
OPA330AIDBVT	296-25307-2-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SOT-23-5	275.00/250		
OPA330AIDCKR	296-25615-1-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SC70-5	1.71	1.35	1.22
OPA330AIDCKR	296-25615-2-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SC70-5	1890.00/3,000		
OPA330AIDCKT	296-25308-1-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SC-70-5	1.93	1.49	1.35
OPA330AIDCKT	296-25308-2-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	SC-70-5	275.00/250		
OPA330AIDR	296-25309-1-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	8-SOIC	1.71	1.35	1.22
OPA330AIDR	296-25309-2-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	8-SOIC	1575.00/2,500		
OPA333AID	296-19545-5-ND	1.8V Micropower CMOS Op Amp	8-SOIC	3.22	2.59	2.36
OPA333AIDBVT	296-19546-1-ND	1.8V Micropower CMOS Op Amp	SOT-23-5	3.30	2.70	2.42
OPA333AIDBVT	296-19546-2-ND	1.8V Micropower CMOS Op Amp	SOT-23-5	508.75/250		
OPA333AIDCKR	296-19547-1-ND	1.8V Micropower CMOS Op Amp	SC70-5	3.33	2.57	2.33
OPA333AIDCKR	296-19547-2-ND	1.8V Micropower CMOS Op Amp	SC70-5	3849.00/3,000		
OPA333AMDBVREP	296-22187-1-ND	1.8V Micropower CMOS Op Amp	SOT-23-5	7.55	6.27	5.70
OPA333AMDCKREP	296-22188-1-ND	1.8V Micropower CMOS Op Amp	SC70-5	7.55	6.27	5.70
OPA335AID	296-13467-5-ND	Single-Supply CMOS Zero Drift Op Amp	8-SOIC	3.19	2.57	2.34
OPA335AIDBVR	296-26271-1-ND	Single-Supply CMOS Zero Drift Op Amp* ***NEW!***	SOT-23-5	3.33	2.57	2.33
OPA335AIDBVR	296-26271-2-ND	Single-Supply CMOS Zero Drift Op Amp* ***NEW!***	SOT-23-5	3849.00/3,000		
OPA335AIDBVT	296-13468-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	3.27	2.68	2.40
OPA335AIDBVT	296-13468-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	504.25/250		
OPA336N/250	OPA336NCT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	3.15	2.58	2.31
OPA336N/250	OPA336NTR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	485.75/250		
OPA336NA/250	OPA336NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.63	2.03	1.84
OPA336NA/250	OPA336NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	375.00/250		
OPA336NJ/250	296-26273-1-ND	Single-Supply, Micropower Op Amp* ***NEW!***	SOT-23-5	1.75	1.38	1.25
OPA336NJ/250	296-26273-2-ND	Single-Supply, Micropower Op Amp* ***NEW!***	SOT-23-5	247.25/250		
OPA336U	OPA336U-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.94	2.37	2.16
OPA336UA	OPA336UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.33	1.88	1.69
OPA337EA/250	OPA337EACT-ND	Single-Supply, CMOS Op Amp	8-MSOP	1.88	1.49	1.34
OPA337EA/250	OPA337EATR-ND	Single-Supply, CMOS Op Amp	8-MSOP	266.00/250		
OPA337NA/250	OPA337NACT-ND	Single-Supply, CMOS Op Amp	SOT-23-5	1.88	1.49	1.34
OPA337NA/250	OPA337NATR-ND	Single-Supply, CMOS Op Amp	SOT-23-5	266.00/250		
OPA337PA	OPA337PA-ND	Single-Supply, CMOS Op Amp	8-Dip	1.51	1.21	1.06
OPA337UA/2K5	OPA337UACT-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.63	1.29	1.17
OPA337UA	OPA337UA-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.71	1.38	1.24
OPA337UA/2K5	OPA337UATR-ND	Single-Supply, CMOS Op Amp	8-SOIC	1505.00/2,500		
OPA338NA/250	OPA338NACT-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	2.28	1.76	1.60
OPA338NA/250	OPA338NATR-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	325.00/250		
OPA338UA	OPA338UA-ND	Decompensated Single-Supply CMOS Op Amp	8-SOIC	1.71	1.38	1.24
OPA340NA/250	OPA340NACT-ND	Single-Supply, R/R Op Amp	SOT-23-5	3.22	2.49	2.26
OPA340NA/250	OPA340NATR-ND	Single-Supply, R/R Op Amp	SOT-23-5	460.00/250		
OPA340PA	OPA340PA-ND	Single-Supply, R/R Op Amp	8-Dip	2.48	2.00	1.80
OPA340UA	OPA340UA-ND	Single-Supply, R/R Op Amp	8-SOIC	2.85	2.30	2.07
OPA341UA	OPA341UA-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	8-SOIC	2.95	2.38	2.14
OPA342NA/250	OPA342NACT-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	1.45	1.15	1.04
OPA342NA/250	OPA342NATR-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	205.25/250		
OPA342UA	OPA342UA-ND	Low Cost Micropower R/R Op Amp	8-SOIC	1.17	.94	.82
OPA343NA/250	OPA343NACT-ND	Single Supply Op Amp	SOT-23-5	2.21	1.71	1.55
OPA343NA/250	OPA343NATR-ND	Single Supply Op Amp	SOT-23-5	315.00/250		
OPA343UA	OPA343UA-ND	Single Supply Op Amp	8-SOIC	2.08	1.68	1.51
OPA344NA/250	OPA344NACT-ND	Single Supply Op Amp	SOT-23-5	1.93	1.49	1.35
OPA344NA/250	OPA344NATR-ND	Single Supply Op Amp	SOT-23-5	275.00/250		
OPA344PA	OPA344PA-ND	Single Supply Op Amp	8-Dip	1.58	1.26	1.11
OPA344UA	OPA344UA-ND	Single Supply Op Amp	8-SOIC	1.71	1.38	1.24
OPA345NA/250	OPA345NACT-ND	Single Supply Op Amp	SOT-23-5	1.82	1.41	1.28
OPA345NA/250	OPA345NATR-ND	Single Supply Op Amp	SOT-23-5	260.00/250		
OPA345UA	OPA345UA-ND	Single Supply Op Amp	8-SOIC	1.61	1.30	1.17
OPA347NA/250	OPA347NACT-ND	Micropower R/R, I/O Op Amp	SOT-23-5	1.82	1.41	1.28
OPA347NA/250	OPA347NATR-ND	Micropower R/R, I/O Op Amp	SOT-23-5	260.00/250		
OPA347PA	OPA347PA-ND	Micropower R/R, I/O Op Amp	8-Dip	1.60	1.28	1.12
OPA347SA/3K	296-13469-1-ND	Micropower R/R, I/O Op Amp	SC-70	1.73	1.37	1.24
OPA347SA/3K	296-13469-2-ND	Micropower R/R, I/O Op Amp	SC-70	1914.00/3,000		
OPA347UA	OPA347UA-ND	Micropower R/R, I/O Op Amp	8-SOIC	1.77	1.43	1.29
OPA347UA/2K5	OPA347UATR-ND	Micropower R/R, I/O Op Amp	8-SOIC	1596.00/2,500		
OPA348AID	296-12275-5-ND	1MHz, 45μA, R/R, I/O CMOS Op Amp	8-SOIC	.88	.71	.62
OPA348AIDBVT	296-12276-1-ND	1MHz, 45μA, R/R, I/O CMOS Op Amp	SOT-23-5	1.06	.83	.73
OPA348AIDBVT	296-12276-2-ND	1MHz, 45μA, R/R, I/O CMOS Op Amp	SOT-23-5	142.25/250		
OPA348AIDCKT	296-12728-1-ND	1MHz, 45μA, R/R, I/O CMOS Op Amp	SC70-5	1.06	.83	.73
OPA348AIDCKT	296-12728-2-ND	1MHz, 45μA, R/R, I/O CMOS Op Amp	SC70-5	142.25/250		
OPA349NA/250	296-19955-1-ND	1μA, R/R I/O CMOS Op Amp	SOT-23-5	2.00	1.54	1.40
OPA349SA/3K	296-14451-1-ND	1μA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	1.81	1.43	1.29
OPA349SA/3K	296-14451-2-ND	1μA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	1995.00/3,000		
OPA349UA	296-19956-5-ND	1μA, R/R I/O CMOS Op Amp	8-SOIC	1.77	1.43	1.29
OPA350EA/250	OPA350EACT-ND	35MHz Single-Supply CMOS Op Amp	8-MSOP	3.27	2.68	2.40
OPA350EA/250	OPA350EATR-ND	35MHz Single-Supply CMOS Op Amp	8-MSOP	504.25/250		
OPA350PA	OPA350PA-ND	35MHz Single-Supply CMOS Op Amp	8-Dip	3.01	2.43	2.19
OPA350UA	OPA350UA-ND	35MHz Single-Supply CMOS Op Amp	8-SOIC	3.30	2.66	2.42
OPA353NA/250	OPA353NACT-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	3.27	2.68	2.40
OPA353NA/250	OPA353NATR-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	504.25/250		
OPA353UA	OPA353UA-ND	HS, Single-Supply, R/R CMOS Op Amp	8-SOIC	3.19	2.57	2.34
OPA354AIDBVT	296-13033-1-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	2.80	2.16	1.96
OPA354AIDBVT	296-13033-2-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	400.00/250		
OPA354AIDDA	296-13785-5-ND	250MHz, R/R, In/Out, CMOS Op Amp	8-HSOIC	2.48	2.00	1.80
OPA354AQDBVRQ1	296-24618-1-ND	250MHz, R/R, In/Out, CMOS Op Amp* ***NEW!***	SOT-23-5	2.80	2.16	1.96
OPA354AQDBVRQ1	296-24618-2-ND	250MHz, R/R, In/Out, CMOS Op Amp* ***NEW!***	SOT-23-5	3240.00/3,000		
OPA355NA/250	296-11641-1-ND	High Speed, Video Op Amp	SOT-23-6	2.80	2.16	1.96
OPA355NA/250	296-11641-2-ND	High Speed, Video Op Amp	SOT-23-6	400.00/250		
OPA355NA/3K	296-14628-1-ND	200MHz, Op Amp with Shutdown	SOT23-6	2.45	1.89	1.72
OPA355NA/3K	296-14628-2-ND	200MHz, Op Amp with Shutdown	SOT23-6	2835.00/3,000		
OPA355UA	296-11647-5-ND	High Speed, Video Op Amp	8-SOIC	2.64	2.13	1.92
OPA356AID	296-12407-5-ND	2.5V, Single CMOS Op Amp	8-SOIC	2.64	2.13	1.92
OPA356AQDBVRQ1	296-25390-1-ND	200MHz Voltage Feedback CMOS Op Amp* ***NEW!***	SOT-23-5	2.80	2.16	1.96
OPA356AQDBVRQ1	296-25390-2-ND	200MHz Voltage Feedback CMOS Op Amp* ***NEW!***	SOT-23-5	3240.00/3,000		
OPA357AIDBVT	296-13009-1-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	2.80	2.16	1.96
OPA357AIDBVT	296-13009-2-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	400.00/250		
OPA357AIDDA	296-13786-5-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	8-HSOIC	2.48	2.00	1.80
OPA360AIDCKT	296-17129-1-ND	3V Video Amp	SC70-6	1.53	1.21	1.09
OPA360AIDCKT	296-17129-2-ND	3V Video Amp	SC70-6	216.50/250		
OPA361AIDCKT	296-18695-1-ND	3V Video Amp	SC70-6	1.53	1.21	1.09
OPA361AIDCKT	296-18695-2-ND	3V Video Amp	SC70-6	216.50/250		
OPA361AIDCKTG4	296-18696-1-ND	3V Video Amp	SC70-6	1.53	1.21	1.09

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(Continued)

T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
OPA361AIDCKTG4	296-18696-2-ND	3V Video Amp	SC70-6	216.50/250		
OPA362AIDCKR	296-25194-1-ND	3V Video Amp* ***NEW!***	SC-70	1.33	1.05	.95
OPA362AIDCKR	296-25194-2-ND	3V Video Amp* ***NEW!***	SC-70	1470.00/3,000		
OPA363AID	296-13880-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.08	1.68	1.51
OPA363ID	296-13882-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.95	2.38	2.14
OPA364AID	296-13884-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.08	1.68	1.51
OPA364AIDBVT	296-13885-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	2.35	1.81	1.65
OPA364AIDBVT	296-13885-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	335.00/250		
OPA364ID	296-13886-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.95	2.38	2.14
OPA364IDBVR	296-26282-1-ND	1.8V, 7MHz, Single-Supply R/R I/O Op Amp* ***NEW!***	SOT-23-5	2.84	2.19	1.99
OPA364IDBVR	296-26282-2-ND	1.8V, 7MHz, Single-Supply R/R I/O Op Amp* ***NEW!***	SOT-23-5	3282.00/3,000		
OPA365AID	296-21235-5-ND	2.2V, 50MHz, Low Noise R/R Op Amp	8-SOIC	2.48	2.00	1.80
OPA365AIDBVR	296-20645-1-ND	2.2V, 50MHz, Low Noise R/R Op Amp	SOT-23-5	2.28	1.76	1.60
OPA365AIDBVR	296-20645-2-ND	2.2V, 50MHz, Low Noise R/R Op Amp	SOT-23-5	2634.00/3,000		
OPA369AIDCKR	296-25252-1-ND	1.8V, 12kHz, R/R I/O Op Amp* ***NEW!***	SC70-5	2.28	1.76	1.60
OPA369AIDCKR	296-25252-2-ND	1.8V, 12kHz, R/R I/O Op Amp* ***NEW!***	SC70-5	2634.00/3,000		
OPA369AIDCKT	296-24094-1-ND	1.8V, 12kHz R/R I/O Op Amp	SC70-5	2.63	2.03	1.84
OPA369AIDCKT	296-24094-2-ND	1.8V, 12kHz R/R I/O Op Amp	SC70-5	375.00/250		
OPA373AID	296-15762-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.44	1.15	1.01
OPA373AIDBVT	296-15763-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	1.49	1.18	1.07
OPA373AIDBVT	296-15763-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	211.25/250		
OPA374AID	296-15764-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.44	1.15	1.01
OPA374AIDBVT	296-15765-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.49	1.18	1.07
OPA374AIDBVT	296-15765-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	211.25/250		
OPA376AID	296-22190-5-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	8-SOIC	2.48	2.00	1.80
OPA376AIDBVT	296-21982-1-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SOT-23-5	2.63	2.03	1.84
OPA376AIDBVT	296-21982-2-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SOT-23-5	375.00/250		
OPA376AIDCKT	296-22191-1-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SC70-5	2.63	2.03	1.84
OPA376AIDCKT	296-22191-2-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SC70-5	375.00/250		
OPA378AIDBVT	296-24619-1-ND	900kHz, R/R In/Out, Op Amp****NEW!***	SOT-23-5	2.98	2.30	2.09
OPA378AIDBVT	296-24619-2-ND	900kHz, R/R In/Out, Op Amp****NEW!***	SOT-23-5	425.00/250		
OPA378AIDCKT	296-24620-1-ND	900kHz, R/R In/Out, Op Amp****NEW!***	SC70-5	2.98	2.30	2.09
OPA378AIDCKT	296-24620-2-ND	900kHz, R/R In/Out, Op Amp****NEW!***	SC70-5	425.00/250		
OPA379AID	296-19414-5-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	8-SOIC	2.48	2.00	1.80
OPA379AIDBVT	296-19874-1-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SOT-23-5	2.63	2.03	1.84
OPA379AIDBVT	296-19874-2-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SOT-23-5	375.00/250		
OPA379AIDCKT	296-19875-1-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SC70-5	2.63	2.03	1.84
OPA379AIDCKT	296-19875-2-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SC70-5	375.00/250		
OPA380AID	296-16859-5-ND	Precision, HS, Transimpedance Amp	8-SOIC	6.58	5.29	4.82
OPA380AIDGKT	296-16860-1-ND	Precision, HS, Transimpedance Amp	8-MSOP	6.75	5.52	4.95
OPA380AIDGKT	296-16860-2-ND	Precision, HS, Transimpedance Amp	8-MSOP	1040.75/250		
OPA404KP	OPA404KP-ND	Quad High Spd., Prec. DiFET Op Amp	14-Dip	16.61	13.97	12.84
OPA404KU	OPA404KU-ND	Quad High Spd., Prec. DiFET Op Amp	16-SOIC	18.81	15.82	14.54
OPA445ADDA	296-20722-5-ND	High Voltage FET-Input Op Amp	8-HSOIC	12.54	10.55	9.69
OPA445AP	OPA445AP-ND	High Voltage FET-Input Op Amp	8-Dip	11.88	9.74	8.79
OPA445AU	OPA445AU-ND	High Voltage FET-Input Op Amp	8-SOIC	12.54	10.55	9.69
OPA452TA-1	OPA452TA-1-ND	80V, 50mA Op Amp	7-PFM	6.38	5.23	4.72
OPA452TA	OPA452TA-ND	80V, 50mA Op Amp	TO-220-7	6.38	5.23	4.72
OPA453TA-1	OPA453TA-1-ND	80V, 50mA Op Amp	7-PFM	6.38	5.23	4.72
OPA453TA	OPA453TA-ND	80V, 50mA Op Amp	TO-220-7	6.38	5.23	4.72
OPA454AIDDA	296-22997-5-ND	High Voltage, High Current Op Amp	8-HSOIC	8.25	6.77	6.11
OPA541AM	OPA541AM-ND	High Power Monolithic Op Amp	TO3-8	124.70	112.44	108.76
OPA541AP	OPA541AP-ND	High Power Monolithic Op Amp	TO-220-11	22.20	18.87	17.49
OPA544T	OPA544T-ND	High Voltage, High Current Op Amp	TO-220-5	17.38	14.62	13.43
OPA547F/500	296-26289-1-ND	High Voltage, High Current Op Amp* ***NEW!***	D2PAK-7	11.50	9.75	9.00
OPA547F/500	296-26289-2-ND	High Voltage, High Current Op Amp* ***NEW!***	D2PAK-7	3625.00/500		
OPA547T	OPA547T-ND	High Voltage, High Current Op Amp	7-PFM	11.00	9.25	8.50
OPA547T-1	296-25296-5-ND	High Voltage, High Current Op Amp* ***NEW!***	TO-220-7	11.00	9.25	8.50
OPA548FKTWT	296-15968-1-ND	High Voltage, High Current Op Amp	7-DDPAK	15.87	13.46	—
OPA548FKTWT	296-15968-2-ND	High Voltage, High Current Op Amp	7-DDPAK	638.25/50		
OPA548T	296-23089-5-ND	High Voltage, High Current Op Amp	7-PFM	15.18	12.77	11.73
OPA548T-1	296-26291-5-ND	High Voltage, High Current Op Amp* ***NEW!***	TO-220-7	15.18	12.77	11.73
OPA549S	OPA549S-ND	High Voltage, High Current Op Amp	11-PFM	24.00	20.40	18.90
OPA549T	OPA549T-ND	High Voltage, High Current Op Amp	TO-220-11	24.00	20.40	18.90
OPA551PA	OPA551PA-ND	High Current/Power Op Amp	8-Dip	4.90	3.94	3.59
OPA551UA	OPA551UA-ND	High Current/Power Op Amp	8-SOIC	5.88	4.73	4.31
OPA552PA	OPA552PA-ND	High Current/Power Op Amp	8-Dip	4.90	3.94	3.59
OPA552UA	OPA552UA-ND	High Current/Power Op Amp	8-SOIC	5.88	4.73	4.31
OPA561PWP	OPA561PWP-ND	High Current, HS, Op Amp	20-HTSSOP	7.88	6.46	5.83
OPA564AIDWDR	296-25453-1-ND	17MHz, Gen. Purp. Op Amp* ***NEW!***	20-HSOP	7.29	6.05	5.50
OPA564AIDWDR	296-25453-2-ND	17MHz, Gen. Purp. Op Amp* ***NEW!***	20-HSOP	7150.00/2,000		
OPA564AIDWP	296-25592-5-ND	17MHz, Gen. Purp. Op Amp* ***NEW!***	20-SOIC	8.25	6.77	6.11
OPA564AIDWPR	296-25454-1-ND	17MHz, Gen. Purp. Op Amp* ***NEW!***	SO-20	7.29	6.05	5.50
OPA564AIDWPR	296-25454-2-ND	17MHz, Gen. Purp. Op Amp* ***NEW!***	SO-20	7150.00/2,000		
OPA567AIRHGT	296-18697-1-ND	R/R In/Out 2A Power Amp	12-VQFN	7.02	5.83	5.30
OPA567AIRHGT	296-18697-2-ND	R/R In/Out 2A Power Amp	12-VQFN	1126.25/250		
OPA569AIDWP	296-14174-5-ND	Rail-to-Rail, 2A Power Amp	20-HSOIC	11.75	9.64	8.70
OPA569AIDWPR	296-26292-1-ND	Rail-to-Rail, 2A Power Amp* ***NEW!***	20-SOIC	10.34	8.58	7.80
OPA569AIDWPR	296-26292-2-ND	Rail-to-Rail, 2A Power Amp* ***NEW!***	20-SOIC	5265.00/1,000		
OPA602AP	OPA602AP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	9.50	7.79	7.03
OPA602AU	OPA602AU-ND	High-Speed, Precision DiFET Op Amp	8-SOIC	12.38	10.15	9.16
OPA602BP	OPA602BP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	13.42	11.29	10.37
OPA604AP	OPA604AP-ND	FET-Input, Low Distortion Op Amp	8-Dip	2.94	2.37	2.16
OPA604AU	OPA604AU-ND	FET-Input, Low Distortion Op Amp	8-SOIC	3.64	2.93	2.67
OPA606KP	OPA606KP-ND	Wide Bandwidth DiFET Op Amp	8-Dip	8.38	6.87	6.20
OPA615ID	296-18291-5-ND	Wide Bandwidth, DC Restoration Circuit	14-SOIC	13.31	11.20	10.29
OPA615IDGST	296-21396-1-ND	Wide Bandwidth, DC Restoration Circuit	10-MSOP	12.08	10.24	9.45
OPA627AP	OPA627AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	24.50	20.83	19.30
OPA627AU	OPA627AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	28.50	24.23	22.45
OPA627BM	296-22025-5-ND	Precision High-Speed DiFET Op Amp	TO-99-8	48.51	41.96	39.33
OPA627BP	OPA627BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	35.50	30.18	27.96
OPA627AM	OPA627AM-ND	Precision High-Speed DiFET Op Amp	TO-99-8	46.16	39.92	37.43
OPA633KP	OPA633KP-ND	High-Speed Buffer Amp	8-Dip	11.99	10.09	9.27
OPA637AP	OPA637AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	24.50	20.83	19.30
OPA637AU	OPA637AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	28.50	24.23	22.45
OPA637BP	OPA637BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	35.50	30.18	27.96
OPA653IDBVT	296-25788-1-ND	500MHz, Wideband, JFET-Input Op Amp* ***NEW!***	SOT-23-5	9.01	7.48	6.80
OPA653IDBVT	296-25788-2-ND	500MHz, Wideband, JFET-Input Op Amp* ***NEW!***	SOT-23-5	1445.00/250		
OPA656N/250	OPA656N/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	10.73	8.91	8.10
OPA656N/250	OPA656N/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1721.25/250		
OPA656NB/250	OPA656NB/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	12.42	10.53	9.72
OPA656NB/250	OPA656NB/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	2092.50/250		
OPA656U	OPA656U-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	10.13	8.31	7.50
OPA656UB	OPA656UB-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	11.88	9.99	9.18
OPA657N/250	OPA657N/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	12.06	10.01	9.10
OPA657N/250	OPA657N/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1933.75/250		
OPA657NB/250	OPA657NB/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	13.46	11.41	10.53
OPA657NB/250	OPA657NB/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	2267.00/250		
OPA657U	OPA657U-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	11.38	9.33	8.42
OPA657UB	OPA657UB-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	12.98	10.92	10.03
OPA659IDBVT	296-24971-1-ND	Wideband Voltage-Feedback JFET-Input Op Amp* ***NEW!***	SOT-23-5	9.01	7.48	6.80
OPA659IDBVT	296-24971-2-ND	Wideband Voltage-Feedback JFET-Input Op Amp* ***NEW!***	SOT-23-5	1445.00/250		
OPA659IDRBT	296-24074-1-ND	Wideband Voltage-Feedback JFET-Input Op Amp	8-VSON	9.01	7.48	6.80
OPA659IDRBT	296-24074-2-ND	Wideband Voltage-Feedback JFET-Input Op Amp	8-VSON	1445.00/250		
OPA683ID	296-12854-5-ND	Very LP, Current-Feedback Op Amp	8-SOIC	3.86	3.11	2.83
OPA684ID	OPA684ID-ND	Low Power, Current-Feedback Op Amp	8-SOIC	4.26	3.42	3.12
OPA684IDBVT	OPA684IDBVTCT-ND	Low Power, Current-Feedback Op Amp	SOT-23-6	4.41	3.61	3.24
OPA690ID	OPA690ID-ND	Wideband Voltage-Feedback Op Amp with Disable	8-SOIC	4.26	3.42	3.12
OPA690IDBVT	OPA690IDBVTCT-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	4.41	3.61	3.24
OPA690IDBVT	OPA690IDBVTTR-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	680.00/250		
OPA691ID	OPA691ID-ND	Wideband Current-Feedback Op Amp with Disable	8-SOIC	4.65	3.74	3.41
OPA691IDBVT	OPA691IDBVTCT-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	4.71	3.85	3.46
OPA691IDBVT	OPA691IDBVTTR-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	726.25/250		
OPA692ID	OPA692ID-ND	Wideband Video Buffer Amp w/Disable	8-SOIC	3.72	3.00	2.73
OPA693ID	296-16638-5-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	8-SOIC	5.32	4.28	3.90
OPA693IDBVT	296-16639-1-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	5.55	4.54	4.07
OPA693IDBVT	296-16639-2-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	855.75/250		
OPA694ID	296-17507-5-ND	Wideband, Low Power, Current Feedback Op Amp	8-SOIC	4.00	3.22	2.94
OPA694IDBVT	296-17503-1-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	4.14	3.39	3.04
OPA694IDBVT	296-17503-2-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	638.25/250		
OPA695ID	296-16756-5-ND	Ultra-Wideband, Current-Feedback Op Amp	8-SOIC	4.26	3.42	3.12
OPA695IDBVT	296-16854-1-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	4.41	3.61	3.24
OPA695IDBVT	296-16854-2-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	680.00/250		
OPA695IDGKT	296-24333-1-ND	Ultra-Wideband, Current-Feedback Op-Amp* ***NEW!***	8-MSOP	4.41	3.61	3.24
OPA695IDGKT	296-24333-2-ND	Ultra-Wideband, Current-Feedback Op-Amp* ***NEW!***	8-MSOP	680.00/250		
OPA698ID	296-15860-5-ND	Wideband, Unity-Gain Stable Voltage Limiting Amp	8-SOIC	6.44	5.18	4.72
OPA699ID	296-15876-5-ND	Wideband, High-Gain Voltage Limiting Amp	8-SOIC	6.58	5.29	4.82
OPA703PA	OPA703PA-ND	1MHz, CMOS R/R I/O Op Amp	8-Dip	3.47	2.79	2.55
OPA703UA	OPA703UA-ND	1MHz, CMOS R/R I/O Op Amp	8-SOIC	4.12	3.31	3.02
OPA704NA/3K	OPA704NA/3KCT-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	3.72	3.04	2.73
OPA704NA/3K	OPA704NA/3KTR-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	4947.00/3,000		
OPA704PA	OPA704PA-ND	3MHz, CMOS R/R I/O Op Amp	8-Dip	3.47	2.79	2.55
OPA704UA	OPA704UA-ND	3MHz, CMOS R/R I/O Op Amp	8-SOIC	4.12	3.31	3.02
OPA705NA/3K	OPA705NA/3KCT-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1.63	1.29	1.16
OPA705NA/3K	OPA705NA/3KTR-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1797.00/3,000		
OPA705PA	OPA705PA-ND	1MHz, CMOS R/R In/Out Op Amp	8-Dip	1.50	1.20	1.05
OPA705UA	OPA705UA-ND	1MHz, CMOS R/R In/Out Op Amp	8-SOIC	1.61	1.30	1.17
OPA725AID	296-15766-5-ND	20MHz, 12V, LN, HS, CMOS Op Amp	8-SOIC	3.08	2.48	2.26
OPA725AIDBVT	296-15767-1-ND	20MHz, 12V, LN, HS, CMOS Op Amp	SOT-23-5	3.15	2.58	2.31
OPA725AIDBVT	296-15767-2-ND	20MHz, 12V, LN, HS, CMOS Op Amp	SOT-23-5	485.75/250		
OPA727AIDGKT	296-17415-1-ND	e-trim 20MHz, High Precision CMOS Op Amp	8-MSOP	2.45	1.89	1.72
OPA734AID	296-18507-5-ND	Single Supply, Zero-Drift, CMOS Op Amp	8-SOIC	4.00	3.22	2.94
OPA734AIDBVT	296-18508-1-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	4.14	3.39	3.04

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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
OPA734AIDBVT	296-18508-2-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	638.25/250		
OPA735AID	296-17995-ND	Single-Supply, Zero-Drift, CMOS Op Amp	8-SOIC	4.00	3.22	2.94
OPA743NA/3K	OPA743NA/3KCT-ND	7MHz, CMOS R/R I/O Op Amp	SOT-23-5	3.15	2.43	2.21
OPA743NA/3K	OPA743NA/3KTR-ND	7MHz, CMOS R/R I/O Op Amp	SOT-23-5	3645.00/3,000		
OPA743PA	OPA743PA-ND	7MHz, CMOS R/R I/O Op Amp	8-Dip	2.79	2.25	2.03
OPA743UA	OPA743UA-ND	7MHz, CMOS R/R I/O Op Amp	8-SOIC	2.79	2.25	2.03
OPA820ID	296-17130-5-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	3.08	2.48	2.26
OPA820IDBVT	296-17131-1-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	3.15	2.58	2.31
OPA820IDBVT	296-17131-2-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	485.75/250		
OPA827AID	296-23816-5-ND	22MHz, JFET-Input Op Amp	8-SOIC	11.25	9.23	8.33
OPA827AIDGKT	296-24280-1-ND	22MHz, JFET-Input Op Amp* ***NEW!***	8-MSOP	11.53	9.57	8.70
OPA827AIDGKT	296-24280-2-ND	22MHz, JFET-Input Op Amp* ***NEW!***	8-MSOP	1848.75/250		
OPA830ID	296-17400-5-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	8-SOIC	1.77	1.43	1.29
OPA830IDBVT	296-17401-1-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	2.00	1.54	1.40
OPA832ID	296-17325-5-ND	Fixed-Gain Video Buffer Amp	8-SOIC	1.61	1.30	1.17
OPA842ID	296-14175-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	5.04	4.05	3.69
OPA842IDBVT	296-14176-1-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	5.25	4.29	3.85
OPA843ID	296-14177-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	5.18	4.17	3.80
OPA846ID	296-14775-5-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	5.60	4.50	4.10
OPA846IDBVT	296-14776-1-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	5.70	4.66	4.18
OPA847ID	296-15171-5-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	8-SOIC	6.72	5.40	4.92
OPA847IDBVT	296-15172-1-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	6.90	5.64	5.06
OPA847IDBVT	296-15172-2-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	1063.75/250		
OPA860ID	296-18202-ND	Wide Bandwidth Op Transconductance Amp/Buffer	8-SOIC	6.75	5.54	5.00
OPA861ID	296-18699-5-ND	Op Transconductance Amp	8-SOIC	3.22	2.59	2.36
OPA861IDBVT	296-18700-1-ND	Op Transconductance Amp	SOT-23-6	3.30	2.70	2.42
OPA861IDBVT	296-18700-2-ND	Op Transconductance Amp	SOT-23-6	508.75/250		
OPA875ID	296-21397-5-ND	2:1 High Speed Video Mux	8-SOIC	4.90	3.94	3.59
OPA875IDGKT	296-21398-1-ND	2:1 High Speed Video Mux	8-MSOP	4.95	4.05	3.63
OPA890ID	296-21959-5-ND	Wideband, Voltage-Feedback Op Amp	8-SOIC	2.67	2.15	1.94
OPA890IDBVT	296-21960-1-ND	Wideband, Voltage-Feedback Op Amp	SOT-23-6	3.01	2.33	2.11
OPA890IDBVT	296-21960-2-ND	Wideband, Voltage-Feedback Op Amp	SOT-23-6	430.00/250		
OPA1013CN8	OPA1013CN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	6.86	5.52	5.03
OPA1013DN8	OPA1013DN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	5.60	4.50	4.10
OPA1611AID	296-24958-5-ND	Single High-Performance Audio Op Amp* ***NEW!***	8-SOIC	5.88	4.73	4.31
OPA1612AID	296-24959-5-ND	Dual High-Performance Audio Op Amp* ***NEW!***	8-SOIC	8.25	6.77	6.11
OPA1632D	296-16679-5-ND	High-Perf., Fully-Diff. Audio Op Amp	8-SOIC	5.88	4.73	4.31
OPA1632DGN	296-17008-ND	High-Perf., Fully-Diff. Audio Op Amp	8-MSOP	5.88	4.73	4.31
OPA1641AID	296-25613-5-ND	Single High-Performance Audio Op Amp* ***NEW!***	8-SOIC	3.22	2.59	2.36
OPA1642AID	296-25614-5-ND	Dual High-Performance Audio Op Amp* ***NEW!***	8-SOIC	4.90	3.94	3.59
OPA1642AIDGKT	296-25796-1-ND	Dual High-Performance Audio Op Amp* ***NEW!***	8-MSOP	5.10	4.17	3.74
OPA1642AIDGKT	296-25796-2-ND	Dual High-Performance Audio Op Amp* ***NEW!***	8-MSOP	786.25/250		
OPA2107AP	296-19953-5-ND	Dual, Difet® Op Amp	8-Dip	16.17	13.60	12.50
OPA2107AU	OPA2107AU-ND	Dual, Difet® Op Amp	8-SOIC	19.47	16.38	15.05
OPA2111KP	296-12983-5-ND	Dual, LN Precision Difet® Op Amp	8-Dip	16.94	14.25	13.09
OPA2130UA	OPA2130UA-ND	Dual, LP, Precision, FET-Input Op Amp	8-SOIC	6.75	5.54	5.00
OPA2131UA	OPA2131UA-ND	Dual, GP, FET-Input Op Amp	8-SOIC	5.88	4.73	4.31
OPA2131UJ	OPA2131UJ-ND	Dual, GP, FET-Input Op Amp	8-SOIC	4.62	3.72	3.39
OPA2132P	OPA2132P-ND	High Speed, FET Input Op Amp	8-Dip	11.11	9.35	8.59
OPA2132PA	OPA2132PA-ND	High Speed, FET Input Op Amp	8-Dip	6.72	5.40	4.92
OPA2132U	OPA2132U-ND	High Speed, FET Input Op Amp	8-SOIC	12.32	10.36	9.52
OPA2132UA	OPA2132UA-ND	High Speed, FET Input Op Amp	8-SOIC	7.25	5.95	5.37
OPA2134PA	OPA2134PA-ND	Dual, High Performance Audio Op Amp	8-Dip	2.94	2.37	2.16
OPA2134UA	OPA2134UA-ND	Dual, High Performance Audio Op Amp	8-SOIC	3.53	2.84	2.59
OPA2134UA/2K5	296-22024-1-ND	Dual, High Perf. Audio Op Amp	8-SOIC	3.15	2.58	2.31
OPA2134UA/2K5	296-22024-2-ND	Dual, High Perf. Audio Op Amp	8-SOIC	3492.50/2,500		
OPA2137E/250	OPA2137ECT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	3.45	2.82	2.53
OPA2137E/250	OPA2137ETR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	532.00/250		
OPA2137EA/250	OPA2137EACT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	2.80	2.16	1.96
OPA2137EA/250	OPA2137EATR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	400.00/250		
OPA2137P	OPA2137P-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.94	2.37	2.16
OPA2137PA	OPA2137PA-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.17	1.75	1.58
OPA2137U	OPA2137U-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	3.36	2.70	2.46
OPA2137UA	OPA2137UA-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	2.64	2.13	1.92
OPA2211AIDDA	296-24510-5-ND	Dual, LP, Precision Op Amp* ***NEW!***	8-SOIC	13.75	11.57	10.63
OPA2211AIDRGT	296-24511-1-ND	Dual, LP, Precision Op Amp* ***NEW!***	8-SON	13.80	11.70	10.80
OPA2211AIDRGT	296-24511-2-ND	Dual, LP, Precision Op Amp* ***NEW!***	8-SON	2325.00/250		
OPA2227P	OPA2227P-ND	Dual, High Precision Op Amp	8-Dip	9.63	7.90	7.13
OPA2227PA	OPA2227PA-ND	Dual, High Precision Op Amp	8-Dip	4.93	3.96	3.61
OPA2227U	OPA2227U-ND	Dual, High Precision Op Amp	8-SOIC	10.45	8.57	7.74
OPA2227UA	OPA2227UA-ND	Dual, High Precision Op Amp	8-SOIC	5.85	4.71	4.29
OPA2228P	OPA2228P-ND	Dual, High Precision Op Amp	8-Dip	9.63	7.90	7.13
OPA2228PA	OPA2228PA-ND	Dual, High Precision Op Amp	8-Dip	4.93	3.96	3.61
OPA2228U	OPA2228U-ND	Dual, High Precision Op Amp	8-SOIC	10.45	8.57	7.74
OPA2228UA	OPA2228UA-ND	Dual, High Precision Op Amp	8-SOIC	5.85	4.71	4.29
OPA2234U	OPA2234U-ND	Dual, Precision Single-Supply Op Amp	8-SOIC	6.43	5.27	4.76
OPA2234UA	OPA2234UA-ND	Dual, Precision Single-Supply Op Amp	8-SOIC	5.99	4.82	4.39
OPA2237EA/250	OPA2237EACT-ND	Dual, Single-Supply Op Amp	8-MSOP	3.15	2.58	2.31
OPA2237EA/250	OPA2237EATR-ND	Dual, Single-Supply Op Amp	8-MSOP	485.75/250		
OPA2237UA	OPA2237UA-ND	Dual, Single-Supply Op Amp	8-SOIC	3.08	2.48	2.26
OPA2241PA	OPA2241PA-ND	Dual, Single-Supply Micropwr. Op Amp	8-Dip	5.32	4.28	3.90
OPA2241UA	OPA2241UA-ND	Dual, Single-Supply Micropwr. Op Amp	8-SOIC	6.44	5.18	4.72
OPA2244EA/250	OPA2244EACT-ND	Single-Supply Op Amp	8-MSOP	3.29	2.54	2.31
OPA2244EA/250	OPA2244EATR-ND	Single-Supply Op Amp	8-MSOP	470.00/250		
OPA2244PA	OPA2244PA-ND	Single-Supply Op Amp	8-Dip	2.67	2.15	1.94
OPA2244UA	OPA2244UA-ND	Single-Supply Op Amp	8-SOIC	2.80	2.25	2.05
OPA2251PA	OPA2251PA-ND	Dual, Single-Supply Micropwr. Op Amp	8-Dip	5.46	4.39	4.00
OPA2251UA	OPA2251UA-ND	Dual, Single-Supply Micropwr. Op Amp	8-SOIC	6.44	5.18	4.72
OPA2277P	OPA2277P-ND	Dual, High Precision Op Amp	8-Dip	8.68	7.12	6.42
OPA2277PA	OPA2277PA-ND	Dual, High Precision Op Amp	8-Dip	4.40	3.54	3.22
OPA2277U	OPA2277U-ND	Dual, High Precision Op Amp	8-SOIC	9.38	7.69	6.94
OPA2277UA	OPA2277UA-ND	Dual, High Precision Op Amp	8-SOIC	5.18	4.17	3.80
OPA2277UA/2K5	296-23667-1-ND	Dual, High Precision Op Amp	8-SOIC	4.71	3.85	3.46
OPA2277UA/2K5	296-23667-2-ND	Dual, High Precision Op Amp	8-SOIC	5220.25/2,500		
OPA2330AID	296-25351-5-ND	350kHz, R/R CMOS Op Amp* ***NEW!***	8-SOIC	2.48	2.00	1.80
OPA2330AIDGKT	296-25304-1-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-MSOP	2.63	2.03	1.84
OPA2330AIDGKT	296-25304-2-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-MSOP	375.00/250		
OPA2330AIDR	296-25305-1-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-SOIC	2.28	1.76	1.60
OPA2330AIDR	296-25305-2-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-SOIC	2195.00/2,500		
OPA2330AIDRBR	296-25306-1-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-SON	2.28	1.76	1.60
OPA2330AIDRBR	296-25306-2-ND	350kHz, R/R CMOS OP Amp* ***NEW!***	8-SON	2634.00/3,000		
OPA2333AID	296-19543-5-ND	1.8V Micropower CMOS Dual Op Amp	8-SOIC	5.04	4.05	3.69
OPA2333AIDGKR	296-22883-1-ND	1.8V Micropower CMOS Dual Op Amp	8-MSOP	4.50	3.68	3.30
OPA2333AIDGKR	296-22883-2-ND	1.8V Micropower CMOS Dual Op Amp	8-MSOP	4987.50/2,500		
OPA2333AIDRBT	296-19544-1-ND	1.8V Micropower CMOS Dual Op Amp	8-SON	5.25	4.29	3.85
OPA2333AIDRBT	296-19544-2-ND	1.8V Micropower CMOS Dual Op Amp	8-SON	809.50/250		
OPA2333AMDREP	296-22184-1-ND	1.8V Micropower CMOS Dual Op Amp	8-SOIC	7.95	6.60	6.00
OPA2333AMDREP	296-22184-2-ND	1.8V Micropower CMOS Dual Op Amp	8-SOIC	9750.00/2,500		
OPA2335AIDGKT	296-13461-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	5.28	4.32	3.88
OPA2335AIDGKT	296-13461-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	814.00/250		
OPA2335AIDR	296-13462-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	4.56	3.73	3.35
OPA2335AIDR	296-13462-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	5055.00/2,500		
OPA2336E/250	OPA2336ECT-ND	Dual, Micropower Op Amp	8-MSOP	5.55	4.54	4.07
OPA2336E/250	OPA2336ETR-ND	Dual, Micropower Op Amp	8-MSOP	855.75/250		
OPA2336EA/250	OPA2336EACT-ND	Dual, Micropower Op Amp	8-MSOP	3.75	3.07	2.75
OPA2336EA/250	OPA2336EATR-ND	Dual, Micropower Op Amp	8-MSOP	578.25/250		
OPA2336P	OPA2336P-ND	Dual, Micropower Op Amp	8-Dip	4.76	3.83	3.49
OPA2336PA	OPA2336PA-ND	Dual, Micropower Op Amp	8-Dip	3.08	2.48	2.26
OPA2336U	OPA2336U-ND	Dual, Micropower Op Amp	8-SOIC	5.32	4.28	3.90
OPA2336UA	OPA2336UA-ND	Dual, Micropower Op Amp	8-SOIC	3.64	2.93	2.67
OPA2337EA/250	OPA2337EACT-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	2.28	1.76	1.60
OPA2337EA/250	OPA2337EATR-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	325.00/250		
OPA2337PA	OPA2337PA-ND	Dual, Single-Supply, MicroSize Op Amp	8-Dip	2.17	1.75	1.58
OPA2337UA	OPA2337UA-ND	Dual, Single-Supply, MicroSize Op Amp	8-SOIC	2.17	1.75	1.58
OPA2338EA/250	OPA2338EACT-ND	Dual, OPA338 Op Amp	SOT-23-8	2.28	1.76	1.60
OPA2338EA/250	OPA2338EATR-ND	Dual, OPA338 Op Amp	SOT-23-8	325.00/250		
OPA2338UA	OPA2338UA-ND	Dual, OPA338 Op Amp	8-SOIC	2.17	1.75	1.58
OPA2340EA/250	OPA2340EACT-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	4.29	3.51	3.15
OPA2340EA/250	OPA2340EATR-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	661.50/250		
OPA2340PA	OPA2340PA-ND	Dual, Single-Supply, R/R Op Amp	8-Dip	3.42	2.75	2.51
OPA2340UA	OPA2340UA-ND	Dual, Single-Supply, R/R Op Amp	8-SOIC	4.12	3.31	3.02
OPA2341DGSA/250	OPA2341DGSACT-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	4.35	3.56	3.19
OPA2342EA/250	OPA2342EACT-ND	Dual, Micropower R/R Op Amp	8-MSOP	2.17	1.68	1.52
OPA2342EA/250	OPA2342EATR-ND	Dual, Micropower R/R Op Amp	8-MSOP	310.00/250		
OPA2342UA	OPA2342UA-ND	Dual, Micropower R/R Op Amp	8-SOIC	2.08	1.68	1.51
OPA2343EA/250	OPA2343EACT-ND	Rail-to-Rail Op Amp	8-MSOP	3.22	2.49	2.26
OPA2343EA/250	OPA2343EATR-ND	Rail-to-Rail Op Amp	8-MSOP	460.00/250		
OPA2343UA	OPA2343UA-ND	Rail-to-Rail Op Amp	8-SOIC	3.01	2.43	2.19
OPA2344EA/250	OPA2344EACT-ND	Rail-to-Rail Op Amp	8-MSOP	3.01	2.33	2.11
OPA2344EA/250	OPA2344EATR-ND	Rail-to-Rail Op Amp	8-MSOP	430.00/250		
OPA2344PA	OPA2344PA-ND	Rail-to-Rail Op Amp	8-Dip	2.20	1.78	1.60
OPA2344UA	OPA2344UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.67	2.15	1.94
OPA2345UA	OPA2345UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.67	2.15	1.94
OPA2347EA/250	OPA2347EACT-ND	Rail-to-Rail In/Out Op Amp	SOT-23-8	2.49	1.92	1.74
OPA2347EA/250	OPA2347EATR-ND	Rail-to-Rail In/Out Op Amp	SOT-23-8	355.00/250		
OPA2347UA	OPA2347UA-ND	Rail-to-Rail In/Out Op Amp	8-SOIC	2.36	1.90	1.71
OPA2347UA/2K5	OPA2347UATR-ND	Rail-to-Rail In/Out Op Amp	8-SOIC	2092.50/2,500		
OPA2348AID	296-15363-5-ND	Dual, R/R, In/Out Op Amp, 1MHz	8-SOIC	1.24	.99	.87
OPA2348AIDCNR	296-26256-1-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	SOT-23-8	1.12	.89	.80
OPA2348AIDCNR	296-26256-2-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	SOT-23-8	1236.00/3,000		
OPA2348AIDCNT	296-13008-1-ND	Dual, R/R, In/Out Op Amp, 1MHz	SOT-23-8	1.28	1.02	.92
OPA2348AIDCNT	296-13008-2-ND	Dual, R/R, In/Out Op Amp, 1MHz	SOT-23-8	181.75/250		
OPA2348AIDR	296-26257-1-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	8-SOIC	1.12	.89	.80
OPA2348AIDR	296-26257-2-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	8-SOIC	1030.00/2,500		
OPA2348AQDRQ1	296-24326-1-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	8-SOIC	1.28	1.02	.92
OPA2348AQDRQ1	296-24326-2-ND	Dual, R/R, In/Out Op Amp, 1MHz* ***NEW!***	8-SOIC	1183.00/2,500		
OPA2349EA/250	OPA2349EACT-ND	Micropower Op Amp	SOT-23-8	3.01	2.33	2.11
OPA2349EA/250	OPA2349EATR-ND	Micropower Op Amp	SOT-23-8	430.00/250		
OPA2349UA	OPA2349UA-ND	Micropower Op Amp	8-SOIC	2.67	2.15	1.94
OPA2350EA/250	OPA2350EACT-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	5.55	4.54	4.07
OPA2350EA/250	OPA2350EATR-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	855.75/250		
OPA2350PA	OPA2350PA-ND	Dual, HS CMOS Op Amp, 35MHz	8-Dip	4.48	3.60	3.28
OPA2350UA	OPA2350UA-ND	Dual, HS CMOS Op Amp, 35MHz	8-SOIC	5.40	4.35	3.96
OPA2353EA/250	OPA2353EACT-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	5.55	4.54	4.07
OPA2353EA/250	OPA2353EATR-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	855.75/250		
OPA2353UA	OPA2353UA-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-SOIC	5.46	4.39	4.00

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2354AIDDA	296-13784-5-ND	HS 250MHz, R/R, I/O, CMOS Op Amp	8-HSOIC	3.78	3.04	2.77
OPA2354AIDGKT	296-26260-1-ND	HS 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	8-MSOP	3.90	3.19	2.86
OPA2354AIDGKT	296-26260-2-ND	HS 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	8-MSOP	601.25/250		
OPA2354AQDGKRQ1	296-25648-1-ND	Dual High Speed 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	8-MSOP	3.90	3.19	2.86
OPA2354AQDGKRQ1	296-25648-2-ND	Dual High Speed 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	8-MSOP	4322.50/2,500		
OPA2356AID	296-12406-5-ND	200MHz, Dual, HS CMOS Op Amp	8-SOIC	3.92	3.15	2.87
OPA2357AIDGSR	296-26261-1-ND	Dual High Speed 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	10-MSOP	3.30	2.70	2.42
OPA2357AIDGSR	296-26261-2-ND	Dual High Speed 250MHz, R/R, I/O, CMOS Op Amp* ***NEW!***	10-MSOP	3657.50/2,500		
OPA2357AIDGST	OPA2357AIDGSTCT-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	3.90	3.19	2.86
OPA2357AIDGST	OPA2357AIDGSTTR-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	601.25/250		
OPA2363AIDGST	296-13874-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	3.15	2.58	2.31
OPA2364AIDGKT	296-13876-1-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	3.15	2.58	2.31
OPA2364AIDGKT	296-13876-2-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	485.75/250		
OPA2364AIDR	296-13877-1-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3.15	2.43	2.21
OPA2364AIDR	296-13877-2-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3037.50/2,500		
OPA2364ID	296-13878-5-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	4.12	3.31	3.02
OPA2365AID	296-20801-ND	50MHz, 2.2V, R/R Op Amp	8-SOIC	3.22	2.59	2.36
OPA2369AIDCNT	296-22671-1-ND	1.8V, LP, Low Voltage Op Amp	SOT-23-8	3.15	2.58	2.31
OPA2373AIDRCT	296-23468-1-ND	6.5MHz, R/R In/Out CMOS Op Amp	10-SON	2.49	1.92	1.74
OPA2373AIDRCT	296-23468-2-ND	6.5MHz, R/R In/Out CMOS Op Amp	10-SON	355.00/250		
OPA2374AID	296-17933-ND	6.5MHz, R/R In/Out Op Amp	8-SOIC	2.20	1.78	1.60
OPA2374AIDCNT	296-18504-1-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	2.49	1.92	1.74
OPA2374AIDCNT	296-18504-2-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	355.00/250		
OPA2376AID	296-26263-5-ND	Precision, Low Noise Op Amp* ***NEW!***	8-SOIC	3.36	2.70	2.46
OPA2376AIDGKT	296-26264-1-ND	Precision, Low Noise Op Amp* ***NEW!***	8-MSOP	3.45	2.82	2.53
OPA2376AIDGKT	296-26264-2-ND	Precision, Low Noise Op Amp* ***NEW!***	8-MSOP	532.00/250		
OPA2376AIDR	296-22564-1-ND	Dual Precision, Low Noise, Op Amp	8-SOIC	3.00	2.45	2.20
OPA2376AIDR	296-22564-2-ND	Dual Precision, Low Noise, Op Amp	8-SOIC	3325.00/2,500		
OPA2376AIYZDT	296-23919-1-ND	5.5MHz Op Amp	8-DSBGA	3.30	2.70	2.42
OPA2377AIDGKT	296-25799-1-ND	5MHz, Dual Supply CMOS Op Amp* ***NEW!***	8-MSOP	2.45	1.89	1.72
OPA2377AIDGKT	296-25799-2-ND	5MHz, Dual Supply CMOS Op Amp* ***NEW!***	8-MSOP	350.00/250		
OPA2378AIDCNT	296-25297-1-ND	Low Noise, 900kHz, R/R I/O Precision Op Amp* ***NEW!***	SOT-23-8	3.90	3.19	2.86
OPA2378AIDCNT	296-25297-2-ND	Low Noise, 900kHz, R/R I/O Precision Op Amp* ***NEW!***	SOT-23-8	601.25/250		
OPA2379AID	296-19412-5-ND	1.8V, 90kHz R/R I/O Op Amp	8-SOIC	3.08	2.48	2.26
OPA2379AIDCNR	296-23445-1-ND	1.8V, 90kHz R/R I/O Op Amp	SOT-23-8	3.15	2.43	2.21
OPA2380AIDGKT	296-17046-1-ND	Precision, HS, Transimpedance Amp	8-MSOP	7.69	6.38	5.80
OPA2381AIDRBT	296-17559-1-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-SON	4.05	3.31	2.97
OPA2381AIDRBT	296-17559-2-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-SON	624.50/250		
OPA2541AM	OPA2541AM-ND	Dual, High Power Op Amp, 5A Out	TO-3	232.15	212.94	208.13
OPA2541BM	OPA2541BM-ND	Dual, High Power Op Amp, 5A Out	TO-3	239.73	219.89	214.93
OPA2544T	OPA2544T-ND	Dual, High-Volt./Current Op Amp	TO-220-11	24.00	20.40	18.90
OPA2604AP	OPA2604AP-ND	Dual, FET-Input, Low Distortion Op Amp	8-Dip	5.32	4.28	3.90
OPA2604AU	OPA2604AU-ND	Dual, FET-Input, Low Distortion Op Amp	8-SOIC	6.44	5.18	4.72
OPA2613ID	296-16916-5-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	4.93	3.96	3.61
OPA2614ID	296-17127-5-ND	Dual, High Gain Bandwidth, High Output Op Amp	8-SOIC	6.44	5.18	4.72
OPA2652E/250	OPA2652ECT-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	3.84	3.14	2.82
OPA2652E/250	OPA2652ETR-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	592.00/250		
OPA2652U	OPA2652U-ND	Dual, Voltage Feedback Op Amp	8-SOIC	3.72	3.00	2.73
OPA2674I-14D	296-15211-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	14-SOIC	4.59	3.69	3.37
OPA2674ID	296-15212-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	8-SOIC	4.59	3.69	3.37
OPA2677U	OPA2677U-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	4.23	3.40	3.10
OPA2683ID	296-14172-5-ND	Dual, Very Low Power, Current Feedback Op Amp	8-SOIC	5.85	4.71	4.29
OPA2683IDCNT	296-14173-1-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	6.00	4.90	4.40
OPA2683IDCNT	296-14173-2-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	925.00/250		
OPA2684ID	296-13463-5-ND	Dual, LP, Current Feedback Op Amp	8-SOIC	6.52	5.25	4.78
OPA2690I-14D	296-13464-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	14-SOIC	6.92	5.56	5.07
OPA2690ID	296-13465-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	8-SOIC	6.92	5.56	5.07
OPA2691I-14D	OPA2691I-14D-ND	Dual, Wideband, Current Feedback Op Amp	14-SOIC	6.53	5.36	4.83
OPA2691ID	OPA2691ID-ND	Dual, Wideband, Current Feedback Op Amp	8-SOIC	6.53	5.36	4.83
OPA2694ID	296-17883-ND	Dual, Wideband, Low Power, Current Feedback Op Amp	8-SOIC	7.00	5.74	5.18
OPA2695ID	296-23387-5-ND	Dual, Ultra Wideband, Current Feedback Op Amp	8-SOIC	6.50	5.33	4.81
OPA2703EA/250	OPA2703EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	6.99	5.71	5.13
OPA2703EA/250	OPA2703EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	1077.75/250		
OPA2703PA	OPA2703PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	6.78	5.45	4.97
OPA2703UA	OPA2703UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	6.78	5.45	4.97
OPA2704PA	OPA2704PA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-Dip	5.71	4.59	4.19
OPA2704UA	OPA2704UA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	6.78	5.45	4.97
OPA2705EA/250	OPA2705EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	2.35	1.81	1.65
OPA2705PA	OPA2705PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	2.08	1.68	1.51
OPA2705UA	OPA2705UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	2.08	1.68	1.51
OPA2725AID	296-17228-5-ND	12V, High Speed CMOS Op Amp	8-SOIC	5.74	4.62	4.21
OPA2725AIDGKT	296-16768-1-ND	12V, High Speed CMOS Op Amp	8-MSOP	5.85	4.78	4.29
OPA2725AIDGKT	296-16768-2-ND	12V, High Speed CMOS Op Amp	8-MSOP	902.00/250		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2727AIDR	296-21651-1-ND	12V, e-trim 20MHz High Precision CMOS Op Amp	8-SOIC	3.00	2.45	2.20
OPA2727AIDR	296-21651-2-ND	12V, e-trim 20MHz High Precision CMOS Op Amp	8-SOIC	3325.00/2,500		
OPA2735AID	296-16770-5-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-SOIC	6.38	5.13	4.68
OPA2735AIDGKT	296-16771-1-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	6.57	5.37	4.82
OPA2735AIDGKT	296-16771-2-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	1013.00/250		
OPA2743EA/250	296-17017-1-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	4.98	4.07	3.66
OPA2743PA	296-12726-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.12	3.31	3.02
OPA2743UA	296-12727-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.93	3.96	3.61
OPA2822U	296-9623-5-ND	Dual, Wideband, Low Noise Op Amp	8-SOIC	4.40	3.54	3.22
OPA2830ID	296-17957-5-ND	Dual, Single Supply Wideband Op Amp	8-SOIC	2.79	2.25	2.03
OPA2830IDGKT	296-17958-1-ND	Dual, Single Supply Wideband Op Amp	8-MSOP	3.15	2.43	2.21
OPA2830IDGKT	296-17958-2-ND	Dual, Single Supply Wideband Op Amp	8-MSOP	450.00/250		
OPA2832ID	296-18002-5-ND	Dual, LP, HS, Fixed Gain Op Amp	8-SOIC	3.08	2.48	2.26
OPA2846ID	296-16853-5-ND	Dual, Wideband, Low-Noise, Voltage-Feedback Op Amp	8-SOIC	9.50	7.79	7.03
OPA2889ID	296-22185-5-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp	8-SOIC	3.86	3.11	2.83
OPA2889IDGSR	296-22186-1-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp	10-MSOP	3.42	2.80	2.51
OPA2889IDGSR	296-22186-2-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp	10-MSOP	3790.00/2,500		
OPA2889IDGST	296-24594-1-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp* ***NEW!***	10-MSOP	3.99	3.26	2.93
OPA2889IDGST	296-24594-2-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp* ***NEW!***	10-MSOP	615.25/250		
OPA2890ID	296-22969-5-ND	Wideband, Voltage-Feedback Op Amp	8-SOIC	3.86	3.11	2.83
OPA3355UA	OPA3355UA-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	6.16	4.95	4.51
OPA3355UA/2K5	OPA3355UA/2K5CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	5.40	4.41	3.96
OPA3355UA/2K5	OPA3355UA/2K5TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	5985.00/2,500		
OPA3684ID	296-13646-5-ND	Low Power, Triple Current Feedback Op Amp with Disable	14-SOIC	8.13	6.67	6.02
OPA3684IDBQT	296-13647-1-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-QSOP	8.22	6.82	6.20
OPA3690ID	OPA3690ID-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SOIC	8.75	7.18	6.48
OPA3690IDBQT	OPA3690IDBQTCT-ND	Triple, Wideband, Voltage Feedback Op Amp	16-QSOP	8.88	7.37	6.70
OPA3691ID	OPA3691ID-ND	Triple, Wideband, Current Feedback Op Amp	16-SOIC	9.25	7.59	6.85
OPA3691IDBQT	OPA3691IDBQTCT-ND	Triple, Wideband, Current Feedback Op Amp	16-QSOP	9.41	7.81	7.10
OPA3692ID	296-12603-5-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SOIC	8.25	6.77	6.11
OPA3693IDBQ	296-21393-5-ND	Triple Wideband, Fixed Gain, Video Buffer	16-QSOP	7.63	6.26	5.65
OPA3695IDBQ	296-23389-5-ND	Triple, Ultra Wideband, Current Feedback Op Amp	16-QSOP	8.13	6.67	6.02
OPA3832ID	296-21667-5-ND	Triple LP, HS, Fixed Gain Op Amp	14-SOIC	3.22	2.59	2.36
OPA3832IPW	296-21394-5-ND	Triple LP, HS, Fixed Gain Op Amp	14-TSSOP	3.22	2.59	2.36
OPA3875IDBQ	296-21395-5-ND	Triple 2:1 High Speed Video Mux	16-QSOP	7.63	6.26	5.65
OPA4130UA	OPA4130UA-ND	Quad, LP, Precision, FET-In Op Amp	14-SOIC	10.25	8.41	7.59
OPA4131NA	OPA4131NA-ND	Quad, GP FET-Input Op Amp	14-SOIC	9.13	7.49	6.76
OPA4131NJ	OPA4131NJ-ND	Quad, GP FET-Input Op Amp	14-SOIC	7.63	6.26	5.65
OPA4131PA	OPA4131PA-ND	Quad, GP FET-Input Op Amp	14-Dip	9.13	7.49	6.76
OPA4131PJ	OPA4131PJ-ND	Quad, GP FET-Input Op Amp	14-Dip	7.63	6.26	5.65
OPA4131UA	OPA4131UA-ND	Quad, GP FET-Input Op Amp	16-SOIC	10.63	8.72	7.87
OPA4132UA	OPA4132UA-ND	Quad, HS, FET-Input Op Amp	14-SOIC	11.99	10.09	9.27
OPA4134UA	OPA4134UA-ND	Quad, High Performance Op Amp	14-SOIC	5.66	4.55	4.15
OPA4137P	OPA4137P-ND	Quad, FET-Input Op Amp	14-Dip	4.20	3.38	3.08
OPA4137PA	OPA4137PA-ND	Quad, FET-Input Op Amp	14-Dip	3.08	2.48	2.26
OPA4137U	OPA4137U-ND	Quad, FET-Input Op Amp	14-SOIC	4.76	3.83	3.49
OPA4137UA	OPA4137UA-ND	Quad, FET-Input Op Amp	14-SOIC	3.64	2.93	2.67
OPA4227PA	OPA4227PA-ND	Quad, High Precision Op Amp	14-Dip	9.63	7.90	7.13
OPA4227UA	OPA4227UA-ND	Quad, High Precision Op Amp	14-SOIC	11.53	9.46	8.53
OPA4228PA	OPA4228PA-ND	Quad, High Precision Op Amp	14-Dip	9.63	7.90	7.13
OPA4228UA	OPA4228UA-ND	Quad, High Precision Op Amp	14-SOIC	11.53	9.46	8.53
OPA4241PA	OPA4241PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	10.50	8.61	7.77
OPA4241UA	OPA4241UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	11.00	9.25	8.50
OPA4243EA/250	OPA4243EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	6.90	5.64	5.06
OPA4243EA/250	OPA4243EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	1063.75/250		
OPA4244EA/250	OPA4244EACT-ND	Single-Supply µpower Op Amp	14-TSSOP	4.86	3.97	3.57
OPA4244EA/250	OPA4244EATR-ND	Single-Supply µpower Op Amp	14-TSSOP	749.25/250		
OPA4251PA	OPA4251PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	11.55	9.72	8.93
OPA4251UA	OPA4251UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	13.75	11.57	10.63
OPA4277PA	OPA4277PA-ND	Quad, High Precision Op Amp	14-Dip	9.15	7.51	6.78
OPA4277UA	OPA4277UA-ND	Quad, High Precision Op Amp	14-SOIC	10.93	8.96	8.09
OPA4234U	OPA4234U-ND	Quad, Prec., Single-Supply Op Amp	14-SOIC	11.05	9.07	8.18
OPA4234UA	OPA4234UA-ND	Quad, Prec., Single-Supply Op Amp	14-SOIC	9.85	8.08	7.29
OPA4336EA/250	OPA4336EACT-ND	Quad, Single-Supply, µpower Op Amp	16-QSOP	6.00	4.90	4.40
OPA4336EA/250	OPA4336EATR-ND	Quad, Single-Supply, µpower Op Amp	16-QSOP	925.00/250		
OPA4340EA/250	OPA4340EACT-ND	Quad, Single-Supply, R/R Op Amp	16-QSOP	7.17	5.86	5.26
OPA4340EA/250	OPA4340EATR-ND	Quad, Single-Supply, R/R Op Amp	16-QSOP	1105.50/250		
OPA4340UA	OPA4340UA-ND	Quad, Single-Supply, R/R Op Amp	14-SOIC	6.94	5.58	5.09
OPA4342EA/250	OPA4342EACT-ND	Quad, Micropower R/R Op Amp	14-TSSOP	3.33	2.57	2.33
OPA4342EA/250	OPA4342EATR-ND	Quad, Micropower R/R Op Amp	14-TSSOP	475.00/250		
OPA4342PA	OPA4342PA-ND	Quad, Micropower R/R Op Amp	14-Dip	2.95	2.38	2.14
OPA4342UA	OPA4342UA-ND	Quad, Micropower R/R Op Amp	14-SOIC	3.22	2.59	2.36
OPA4343EA/250	OPA4343EACT-ND	Quad, Single-Supply Op Amp	16-QSOP	5.28	4.32	3.88
OPA4343EA/250	OPA4343EATR-ND	Quad, Single-Supply Op Amp	16-QSOP	814.00/250		
OPA4343NA/250	OPA4343NACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	5.28	4.32	3.88
OPA4343NA/250	OPA4343NATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	814.00/250		
OPA4343UA	OPA4343UA-ND	Quad, Single-Supply Op Amp	14-SOIC	5.18	4.17	3.80
OPA4344EA/250	OPA4344EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.20	3.43	3.08

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
OPA4344EA/250	OPA4344EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	647.50/250		
OPA4344PA	OPA4344PA-ND	Quad, Single-Supply Op Amp	14-Dip	3.36	2.70	2.46
OPA4344UA	OPA4344UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.06	3.27	2.98
OPA4345UA	OPA4345UA-ND	Quad, Single-Supply Op Amp	14-SOIC	3.19	2.57	2.34
OPA4347EA/250	OPA4347EACT-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	3.57	2.92	2.62
OPA4347EA/250	OPA4347EATR-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	550.50/250		
OPA4347UA	OPA4347UA-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.58	2.88	2.63
OPA4347UA/2K5	OPA4347UATR-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3491.25/2,500		
OPA4348AID	296-12277-5-ND	1MHz, Quad, R/R, I/O Op Amp	14-SOIC	1.55	1.25	1.13
OPA4348AIPWT	296-12278-1-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	1.75	1.35	1.23
OPA4348AIPWT	296-12278-2-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	250.00/250		
OPA4350EA/250	OPA4350EACT-ND	High Speed CMOS Op Amp, 35MHz	16-QSOP	12.03	9.99	9.08
OPA4350EA/250	OPA4350EATR-ND	High Speed CMOS Op Amp, 35MHz	16-QSOP	1929.50/250		
OPA4350UA	OPA4350UA-ND	High Speed CMOS Op Amp, 35MHz	14-SOIC	11.75	9.64	8.70
OPA4353EA/250	OPA4353EACT-ND	Low Cost, HS CMOS Op Amp	16-QSOP	7.18	5.97	5.42
OPA4353EA/250	OPA4353EATR-ND	Low Cost, HS CMOS Op Amp	16-QSOP	1151.75/250		
OPA4353UA	OPA4353UA-ND	Low Cost, HS CMOS Op Amp	14-SOIC	7.13	5.85	5.28
OPA4354AIDR	296-12643-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	4.80	3.92	3.52
OPA4354AIPWR	296-12644-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	4.80	3.92	3.52
OPA4354AIPWR	296-12644-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	5320.00/2,500		
OPA4364AID	296-14629-5-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-SOIC	4.54	3.65	3.33
OPA4364AIPWT	296-14630-1-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	4.56	3.73	3.35
OPA4364AIPWT	296-14630-2-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	703.00/250		
OPA4364AQDRQ1	296-24548-1-ND	7MHz, R/R In/Out Op Amp* ***NEW!***	14-SOIC	4.80	3.92	3.52
OPA4364AQDRQ1	296-24548-2-ND	7MHz, R/R In/Out Op Amp* ***NEW!***	14-SOIC	5320.00/2,500		
OPA4374AID	296-18201-ND	6.5MHz, R/R In/Out Op Amp	14-SOIC	3.05	2.46	2.24
OPA4374AIPWT	296-16811-1-ND	6.5MHz, R/R In/Out Op Amp	14-TSSOP	3.15	2.58	2.31
OPA4376AIPW	296-26288-5-ND	Precision, Low Noise, Op Amp* ***NEW!***	14-TSSOP	4.76	3.83	3.49
OPA4376AIPWR	296-22565-1-ND	Quad Precision, Low Noise, Op Amp	14-TSSOP	4.20	3.43	3.08
OPA4376AIPWR	296-22565-2-ND	Quad Precision, Low Noise, Op Amp	14-TSSOP	3724.00/2,000		
OPA4379AIPWR	296-21236-1-ND	1.8V, 90kHz R/R, I/O Op Amp	14-TSSOP	3.90	3.19	2.86
OPA4684ID	296-13648-5-ND	Quad, LP, Current-Feedback Op Amp	14-SOIC	9.38	7.69	6.94
OPA4703UA	OPA4703UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	11.53	9.46	8.53
OPA4704EA/2K5	OPA4704EA/2K5CT-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	10.20	8.47	7.70
OPA4704UA	OPA4704UA-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	11.53	9.46	8.53
OPA4705EA/250	296-17095-1-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.72	3.04	2.73
OPA4705UA	OPA4705UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	3.58	2.88	2.63
OPA4743EA/250	OPA4743EA/250CT-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	7.69	6.38	5.80
OPA4743UA	296-12205-5-ND	12V, Quad, HS, R/R, I/O Op Amp	14-SOIC	8.75	7.18	6.48
OPA4820ID	296-17590-5-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-SOIC	8.50	6.97	6.29
OPA4830IPW	296-21513-5-ND	Quad, LP, Wideband Op Amp	14-TSSOP	4.20	3.38	3.08
OPA4872ID	296-22192-5-ND	4:1 High Speed Mux	14-SOIC	6.92	5.56	5.07
OPA4872MDREP	296-23979-1-ND	4:1 High Speed Mux	14-SOIC	11.40	9.46	8.60
PGA103U	PGA103U-ND	Programmable Gain Amp	8-SOIC	10.88	8.92	8.05
PGA113AIDGSR	296-23527-1-ND	Single Supply, Single Ended, Precision Prog. Gain Amp	10-MSOP	3.00	2.45	2.20
PGA116AIPWR	296-23772-1-ND	Zero-Drift, Programmable Gain Amp	20-TSSOP	5.55	4.54	4.07
PGA202KP	PGA202KP-ND	Digitally Controlled Prog. Gain Op Amp	14-Dip	17.05	14.34	13.18
PGA203KP	PGA203KP-ND	Digitally Controlled Prog. Gain Op Amp	14-Dip	17.05	14.34	13.18
PGA204AP	PGA204AP-ND	Prog. Gain Instrumentation Amp	16-Dip	18.37	15.45	14.20
PGA204AU	PGA204AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	20.10	17.09	15.83
PGA204BP	PGA204BP-ND	Prog. Gain Instrumentation Amp	16-Dip	20.10	17.09	15.83
PGA204BU	PGA204BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	24.10	20.49	18.98
PGA205AP	PGA205AP-ND	Prog. Gain Instrumentation Amp	16-Dip	15.95	13.42	12.33
PGA205AU	PGA205AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	19.14	16.10	14.79
PGA205BP	PGA205BP-ND	Prog. Gain Instrumentation Amp	16-Dip	20.20	17.17	15.91
PGA205BU	PGA205BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	20.20	17.17	15.91
PGA206UA	PGA206UA-ND	HS Prog.Gain Instrumentation Amp	16-SOIC	21.60	18.36	17.01
PGA207UA	296-15093-5-ND	HS Prog.Gain Instrumentation Amp	16-SOIC	27.70	23.55	21.82
PGA280AIPW	296-25143-5-ND	Prog. Gain Instrumentation Amp* ***NEW!***	24-TSSOP	8.75	7.18	6.48
PGA308AIDGST	296-23642-1-ND	Single Supply, Auto Zero Sensor Amp	10-MSOP	6.45	5.27	4.73
PGA308AIDGST	296-23642-2-ND	Single Supply, Auto Zero Sensor Amp	10-MSOP	994.50/250		
PGA308AIDRKT	296-24490-1-ND	Single Supply, Auto Zero Sensor Amp* ***NEW!***	10-SON	6.45	5.27	4.73
PGA308AIDRKT	296-24490-2-ND	Single Supply, Auto Zero Sensor Amp* ***NEW!***	10-SON	994.50/250		
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	9.01	7.48	6.80
PGA870IRHDT	296-25578-1-ND	Programmable Gain Amplifier* ***NEW!***	28-VQFN	11.50	9.75	9.00
PGA870IRHDT	296-25578-2-ND	Programmable Gain Amplifier* ***NEW!***	28-VQFN	1937.50/250		
PGA2500EVM	296-18514-ND	Evaluation Module for PGA2500	—	101.00	—	—
PGA2500IDB	296-16674-5-ND	Digital Controlled Microphone Preamp	28-SSOP	21.01	17.67	16.24
PGA2505IDB	296-24572-5-ND	Digital Controlled Microphone Preamp* ***NEW!***	24-SSOP	13.09	11.01	10.12
RC4136N	296-9649-5-ND	Quad General Purpose Op Amp	14-Dip	1.40	1.12	.98
RC4558D	296-9650-5-ND	Dual General Purpose Op Amp	8-SOIC	.39	.26	.21
RC4558IP	296-17460-5-ND	Dual General Purpose Op Amp	8-Dip	.42	.28	.23
RC4558P	296-1414-5-ND	Dual General Purpose Op Amp	8-Dip	.42	.28	.23
RC4558PWR	296-13789-1-ND	Dual General Purpose Op Amp	8-TSSOP	.53	.31	.25
RC4559P	296-9652-5-ND	Dual High Performance Op Amp	8-Dip	1.14	.91	.80
RC4560IDR	296-17547-1-ND	Dual Audio Op Amp	8-SOIC	1.01	.79	.69
RC4560IP	296-17554-5-ND	Dual Audio Op Amp	8-Dip	.89	.71	.62
RC4580ID	296-26318-5-ND	Dual Audio Op Amp* ***NEW!***	8-SOIC	1.05	.84	.74
RC4580IDR	296-15367-1-ND	Dual Audio Op Amp	8-SOIC	.95	.75	.68
RC4580IDR	296-15367-2-ND	Dual Audio Op Amp	8-SOIC	875.00/2,500		
RC4580IP	296-15368-5-ND	Dual Audio Op Amp	8-Dip	1.14	.91	.80
RC4580IPWR	296-15369-1-ND	Dual Audio Op Amp	8-TSSOP	.95	.75	.68
RC4580IPWR	296-15369-2-ND	Dual Audio Op Amp	8-TSSOP	700.00/2,000		
SA5532AP	296-16995-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.92	.74	.65
SA5532P	296-16996-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.92	.74	.65
SA5534AP	296-17272-5-ND	Low Noise Op Amp	8-Dip	1.18	.95	.83
SA5534P	296-17274-5-ND	Low Noise Op Amp	8-Dip	1.05	.84	.74
SN10501D	296-14777-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	2.51	2.03	1.83
SN10501DBVT	296-15094-1-ND	High Speed, R/R, Video Op Amp	SOT-23-5	2.84	2.19	1.99
SN10501DGK	296-16654-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.51	2.03	1.83
SN10501DGN	296-18520-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.51	2.03	1.83
SN10502D	296-15329-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	4.06	3.27	2.98
SN10502DGK	296-16655-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	4.06	3.27	2.98
SN10502DGN	296-16656-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	4.06	3.27	2.98
SN10503D	296-14778-5-ND	High Speed, R/R, Video Op Amp	14-SOIC	5.60	4.50	4.10
SN10503PWP	296-16829-5-ND	High Speed, R/R, Video Op Amp	14-HTSSOP	5.60	4.50	4.10
SN75207BN	296-9910-5-ND	Dual High Sensitivity Line Receiver	14-Dip	3.92	3.15	2.87
SN761640DBTR	296-26673-1-ND	Digital TV Tuner* ***NEW!***	44-TSSOP	3.03	2.48	2.23
SN761640DBTR	296-26673-2-ND	Digital TV Tuner* ***NEW!***	44-TSSOP	2686.00/2,000		
SN761668DBTR	296-26674-1-ND	Digital TV Tuner* ***NEW!***	44-TSSOP	3.78	3.09	2.78
SN761668DBTR	296-26674-2-ND	Digital TV Tuner* ***NEW!***	44-TSSOP	3352.00/2,000		
TAS5015PFB	296-12995-5-ND	True Digital Audio Amp TAS5015 Digital Audio PWM Processor	48-TQFP	51.89	44.88	42.08
TAS5100ADAP	296-12744-5-ND	Digital Audio PWM Amp	32-HTSSOP	23.80	20.23	18.75
TAS5102DAD	296-23613-5-ND	20W Stereo Digital Amp Power Stage	32-HTSSOP	6.16	4.95	4.51
TAS5103DAP	296-23614-5-ND	15W Stereo Digital Amp Power Stage	32-HTSSOP	6.16	4.95	4.51
TAS5110DAP	296-12997-5-ND	True Digital Audio Amp TAS5110 PWM Power Output Stage	32-HTSSOP	31.46	26.75	24.78
TAS5111ADADR	296-21516-1-ND	Digital Amp Power Stage	32-TSSOP	7.20	5.88	5.28
TAS5111ADADR	296-21516-2-ND	Digital Amp Power Stage	32-TSSOP	6384.00/2,000		
TAS5111DAD	296-15277-5-ND	Digital Amp Power Stage	32-TSSOP	11.04	9.29	8.54
TAS5112ADCA	296-17673-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	11.25	9.23	8.33
TAS5112ADFD	296-15944-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	11.25	9.23	8.33
TAS5112DFD	296-15330-5-ND	Digital Amp Stereo Power Stage	56-HTSSOP	13.75	11.57	10.63
TAS5121DKD	296-16644-5-ND	Digital Amp Stereo Power Stage	36-SSOP	9.00	7.38	6.66
TAS5121IDKD	296-17474-5-ND	Digital Amp Stereo Power Stage	36-SSOP	10.00	8.20	7.40
TAS5122DCA	296-18835-5-ND	37W Stereo Digital Amp Power Stage	56-HTSSOP	9.00	7.38	6.66
TAS5132DDV	296-21414-5-ND	Stereo Digital Amp Power Stage	44-HTSSOP	6.58	5.29	4.82
TAS5142DDV	296-18033-5-ND	Digital Amp Stereo Power Stage	44-HTSSOP	9.38	7.69	6.94
TAS5142DKD	296-17861-5-ND	Stereo Digital Amp Power Stage	36-SSOP	11.63	9.54	8.61
TAS5152DKD	296-17901-5-ND	Stereo Digital Amp Power Stage	36-SSOP	11.00	9.25	8.50
TAS5162DDV	296-21652-ND	2x210 Watt Stereo Digital Amp Power Stage	44-HTSSOP	13.09	11.01	10.12
TAS5162DKD	296-21653-ND	2x210 Watt Stereo Digital Amp Power Stage	36-SSOP	15.07	12.68	11.65
TAS5176DDW	296-22026-5-ND	6-Ch., 100W Digital Amp Power Stage	44-HTSSOP	11.33	9.53	8.76
TAS5182DCA	296-15249-5-ND	100W Stereo Digital Amp Power Stage Controller	56-HTSSOP	16.61	13.97	12.84
TAS5182IDCA	296-16663-5-ND	100W Stereo Digital Amp Power Stage Controller	56-HTSSOP	18.26	15.36	14.11
TAS5186ADDV	296-19320-5-ND	6-Ch., 60W Digital Amp Power Stage	44-HTSSOP	13.53	11.38	10.46
TAS5186ADDVR	296-19321-1-ND	6-Ch., 60W Digital Amp Power Stage	44-HTSSOP	11.73	9.95	9.18
TAS5186DDV	296-18071-5-ND	6-Ch., 60W, Digital Amp Power Stage	44-HTSSOP	16.83	14.16	13.01
TAS5261DKD	296-20729-5-ND	400W Mono BTL Digital Amp Power Stage	36-SSOP	13.86	11.66	10.71
TAS5342DDVR	296-22662-1-ND	200W Stereo Digital Amp Power Stage	44-HTSSOP	7.82	6.49	5.90
TAS5342DDVR	296-22662-2-ND	200W Stereo Digital Amp Power Stage	44-HTSSOP	7670.00/2,000		
TAS5342LDDVR	296-22876-1-ND	200W Stereo Digital Amp Power Stage	44-HTSSOP	7.29	6.05	5.50
TAS5342LDDVR	296-22876-2-ND	200W Stereo Digital Amp Power Stage	44-HTSSOP	7150.00/2,000		
TAS5414ATDKDMQ1	296-22042-5-ND	4-Channel Auto Digital Amp	36-SSOP	25.00	21.25	19.69
TAS5414ATDKDQ1	296-22674-5-ND	4-Channel Auto Digital Amp	36-SSOP	22.70	19.30	17.88
TAS5414ATPHDMQ1	296-23097-ND	4-Channel Auto Digital Amp	64-HTQFP	22.50	19.13	17.72
TAS5414ATPHDQ1	296-23098-ND	4-Channel Auto Digital Amp	64-HTQFP	20.50	17.43	16.15
TAS5414TDKDQ1	296-21640-5-ND	4-Channel Auto Digital Amp	36-SSOP	22.10	18.79	17.41
TAS5424ATDKDMQ1	296-22043-5-ND	4-Channel Auto Digital Amp	44-SSOP	26.60	22.61	20.95
TAS5424TDKDQ1	296-21654-ND	4-Channel Auto Digital Amp	44-SSOP	23.54	20.01	18.54
TAS5601DCAR	296-23099-1-ND	20W Stereo Digital Amp Power Stage	56-HTSSOP	5.43	4.44	3.99
TAS5611PHD	296-25586-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.44	9.62	8.84
TAS5611PHDR	296-25505-1-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.40	9.46	8.60
TAS5611PHDR	296-25505-2-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	26875.00/5,000		
TAS5612PHD	296-25587-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.44	9.62	8.84
TAS5612PHDR	296-25506-1-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.40	9.46	8.60
TAS5612PHDR	296-25506-2-ND	125W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	26875.00/5,000		
TAS5613PHD	296-25588-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.77	9.90	9.10
TAS5613PHDR	296-25507-1-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.79	9.79	8.90
TAS5613PHDR	296-25507-2-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	27815.00/5,000		
TAS5614PHD	296-25589-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.77	9.90	9.10
TAS5614PHDR	296-25508-1-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	11.79	9.79	8.90
TAS5614PHDR	296-25508-2-ND	150W 2-Channel Stereo Audio Amp* ***NEW!***	64-HTQFP	27815.00/5,000		
TAS5615DKD	296-24654-5-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	13.75	11.57	10.63
TAS5615DKDR	296-24634-1-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	12.31	10.44	9.63
TAS5615DKDR	296-24634-2-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	3878.75/500		
TAS5615PHDR	296-25280-1-ND	160W/300W Class D Audio Amp* ***NEW!***	64-HTQFP	11.79	9.79	8.90
TAS5615PHDR	296-25280-2-ND	160W/300W Class D Audio Amp* ***NEW!***	64-HTQFP	6007.50/1,000		
TAS5616DKD	296-24655-5-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	13.75	11.57	10.63
TAS5616DKDR	296-24635-1-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	12.31	10.44	9.63

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TAS5616DKDR	296-24635-2-ND	160W/300W Class D Audio Amp* ***NEW!***	44-HSSOP	3878.75/500		
TAS5616PHDR	296-25265-1-ND	160W/300W Class D Audio Amp* ***NEW!***	64-HTQFP	11.79	9.79	8.90
TAS5616PHDR	296-25265-2-ND	160W/300W Class D Audio Amp* ***NEW!***	64-HTQFP	6007.50/1,000		
TAS5630DKD	296-24653-5-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	16.39	13.79	12.67
TAS5630DKDR	296-24624-1-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	14.61	12.39	11.43
TAS5630DKDR	296-24624-2-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	4603.75/500		
TAS5630PHDR	296-25174-1-ND	300W/600W Class D Audio Amp* ***NEW!***	64-HTQFP	12.54	10.63	9.81
TAS5630PHDR	296-25174-2-ND	300W/600W Class D Audio Amp* ***NEW!***	64-HTQFP	7249.00/1,000		
TAS5631DKD	296-24849-5-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	16.39	13.79	12.67
TAS5631DKDR	296-24843-1-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	14.61	12.39	11.43
TAS5631DKDR	296-24843-2-ND	300W/600W Class D Audio Amp* ***NEW!***	44-HSSOP	4604.00/500		
TAS5631PHDR	296-25266-1-ND	300W/600W Class D Audio Amp* ***NEW!***	64-HTQFP	12.54	10.63	9.81
TAS5631PHDR	296-25266-2-ND	300W/600W Class D Audio Amp* ***NEW!***	64-HTQFP	7248.50/1,000		
TAS5701PAP	296-23625-ND	20W Stereo Digital Audio Power Amp	64-HTQFP	7.38	6.05	5.46
TAS5705PAPR	296-23534-1-ND	20W Stereo Digital Audio Power Amp	64-HTQFP	7.35	6.01	5.39
TAS5706EVM2	296-23854-ND	Evaluation Module for TAS5706	—	203.00	—	—
TAS5706APAP	296-24868-ND	20.6W Stereo Digital Audio Power Amp* ***NEW!***	64-HTQFP	9.00	7.38	6.66
TAS5706BPAP	296-24281-ND	20.6W Stereo Digital Audio Power Amp* ***NEW!***	64-HTQFP	7.50	6.15	5.55
TAS5706PAPR	296-22973-1-ND	20.6W Stereo Digital Audio Power Amp	64-HTQFP	7.95	6.60	6.00
TAS5706PAPR	296-22973-2-ND	20.6W Stereo Digital Audio Power Amp	64-HTQFP	4050.00/1,000		
TAS5707APHPR	296-25484-1-ND	20.6W Stereo Digital Audio Pwr. Amp* ***NEW!***	48-HTQFP	6.90	5.64	5.06
TAS5707APHPR	296-25484-2-ND	20.6W Stereo Digital Audio Pwr. Amp* ***NEW!***	48-HTQFP	3220.00/1,000		
TAS5707PHPR	296-23921-1-ND	20.6W Stereo Digital Audio Power Amp	48-HTQFP	6.90	5.64	5.06
TAS5709APHPR	296-25493-1-ND	20W Stereo Audio Pwr. Amp* ***NEW!***	48-HTQFP	7.20	5.88	5.28
TAS5709APHPR	296-25493-2-ND	20W Stereo Audio Pwr. Amp* ***NEW!***	48-HTQFP	3360.00/1,000		
TAS5709PHPR	296-24671-1-ND	20W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	7.20	5.88	5.28
TAS5709PHPR	296-24671-2-ND	20W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	3360.00/1,000		
TAS5711PHPR	296-25564-1-ND	20W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	6.63	5.50	5.00
TAS5711PHPR	296-25564-2-ND	20W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	3375.00/1,000		
TAS5713PHPR	296-25580-1-ND	25W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	7.55	6.27	5.70
TAS5713PHPR	296-25580-2-ND	25W Stereo Digital Audio Power Amp* ***NEW!***	48-HTQFP	3848.00/1,000		
THS3001CD	296-1762-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	9.25	7.59	6.85
THS3001EVM	296-10020-ND	Evaluation Module for THS3001	—	50.00	—	—
THS3001HVIDGN	296-19419-5-ND	420MHz Current-Feedback Op Amp	8-MSOP	13.53	11.38	10.46
THS3001ID	296-7507-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	9.50	7.79	7.03
THS3001IDGNR	296-12006-1-ND	420MHz Current-Feedback Op Amp	8-MSOP	8.35	6.93	6.30
THS3061D	296-13502-5-ND	Single, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	8.88	7.28	6.57
THS3061DGN	296-13613-5-ND	Single, Low Distortion, High Slew-Rate Current-Feedback Amp	8-MSOP	8.88	7.28	6.57
THS3061EVM	296-20542-ND	Evaluation Module for THS3061	—	50.00	—	—
THS3062D	296-13821-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	11.22	9.44	8.67
THS3062DDA	296-13503-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-HSOIC	11.22	9.44	8.67
THS3062DGN	296-13614-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-MSOP	11.22	9.44	8.67
THS3062EVM	296-20543-ND	Evaluation Module for THS3062	—	50.00	—	—
THS3091D	296-16671-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	7.38	6.05	5.46
THS3091DDA	296-15789-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-HSOIC	7.88	6.46	5.83
THS3091EVM	296-16738-ND	Evaluation Module for THS3091	—	50.00	—	—
THS3092D	296-18836-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	12.98	10.92	10.03
THS3092DDA	296-18210-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-HSOIC	13.42	11.29	10.37
THS3092EVM	296-18837-ND	Evaluation Module for THS3092	—	50.00	—	—
THS3095D	296-16672-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	7.63	6.26	5.65
THS3095DDA	296-15790-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-HSOIC	8.13	6.67	6.02
THS3095EVM	296-16739-ND	Evaluation Module For THS3095	—	50.00	—	—
THS3096D	296-18838-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-SOIC	13.20	11.10	10.20
THS3096EVM	296-18839-ND	Evaluation Module for THS3096	—	50.00	—	—
THS3096PWP	296-18840-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-HTSSOP	13.64	11.47	10.54
THS3110EVM	296-18841-ND	Evaluation Module for THS3110	—	50.00	—	—
THS3110ID	296-15768-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	4.34	3.49	3.18
THS3110IDGN	296-15769-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-MSOP	4.90	3.94	3.59
THS3111EVM	296-18842-ND	Evaluation Module for THS3111	—	50.00	—	—
THS3111ID	296-15770-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	4.20	3.38	3.08
THS3112EVM	296-20544-ND	Evaluation Module for THS3112	—	50.00	—	—
THS3112ID	296-13333-5-ND	Low Noise, HS, Current-Feedback Amp	8-SOIC	7.75	6.36	5.74
THS3115EVM	296-20545-ND	Evaluation Module for THS3115	—	50.00	—	—
THS3115ID	296-13335-5-ND	Low Noise, HS Current-Feedback Amp	14-SOIC	7.88	6.46	5.83
THS3115IPWP	296-13336-5-ND	Low Noise, HS Current-Feedback Amp	14-HTSSOP	8.38	6.87	6.20
THS3120EVM	296-18843-ND	Evaluation Module for THS3120	—	50.00	—	—
THS3120ID	296-15772-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	5.99	4.82	4.39
THS3120IDGN	296-15773-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	6.52	5.25	4.78
THS3121EVM	296-18844-ND	Evaluation Module for THS3121	—	50.00	—	—
THS3121ID	296-15774-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	6.43	5.27	4.76
THS3121IDGN	296-15775-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	6.43	5.27	4.76
THS3122EVM	296-20546-ND	Evaluation Module for THS3122	—	50.00	—	—
THS3122ID	296-13337-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	11.38	9.33	8.42
THS3122IDDA	296-21979-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-HSOIC	11.88	9.74	8.79
THS3125EVM	296-20547-ND	Evaluation Module for THS3125	—	50.00	—	—
THS3125ID	296-13339-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-SOIC	11.50	9.43	8.51
THS3125IPWP	296-13340-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-HTSSOP	12.00	9.84	8.88
THS3201D	296-15216-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-SOIC	6.38	5.23	4.72
THS3201DGK	296-16776-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	6.38	5.23	4.72
THS3201DGN	296-15218-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	6.38	5.23	4.72
THS3201EVM	296-18845-ND	Evaluation Module for THS3201	—	50.00	—	—
THS3202D	296-13655-5-ND	2GHz Current-Feedback Amp	8-SOIC	8.75	7.18	6.48
THS3202DGK	296-16777-5-ND	2GHz Current-Feedback Amp	8-MSOP	8.75	7.18	6.48
THS3202DGN	296-13656-5-ND	2GHz Current-Feedback Amp	8-MSOP	8.75	7.18	6.48
THS3202EVM	296-20548-ND	Evaluation Module for THS3202	—	50.00	—	—
THS4001CD	296-1763-5-ND	High Speed, Low Power Op Amp	8-SOIC	7.50	6.15	5.55
THS4001EVM	296-10021-ND	Evaluation Module for THS4001	—	50.00	—	—
THS4001ID	296-1764-5-ND	High Speed, Low Power Op Amp	8-SOIC	7.75	6.36	5.74
THS4011CD	296-2404-5-ND	290MHz High Speed Amp	8-SOIC	6.16	4.95	4.51
THS4011CDGNR	296-7508-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	6.15	5.03	4.51
THS4011EVM	296-10022-ND	Evaluation Module for THS4011	—	50.00	—	—
THS4011ID	296-7509-5-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	6.44	5.18	4.72
THS4011IDGNR	296-7510-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	6.45	5.27	4.73
THS4012CD	296-7511-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	8.88	7.28	6.57
THS4012CDGN	296-10023-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	9.38	7.69	6.94
THS4012CDGNR	296-10023-1-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	8.35	6.93	6.30
THS4012CDGNR	296-10023-2-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	10237.50/2,500		
THS4012EVM	296-10024-ND	Evaluation Module for THS4012	—	50.00	—	—
THS4012ID	296-7513-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	9.13	7.49	6.76
THS4012IDGN	296-10025-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	9.63	7.90	7.13
THS4021CD	296-2405-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	9.75	8.00	7.22
THS4021EVM	296-10027-ND	Evaluation Module for THS4021	—	50.00	—	—
THS4021ID	296-7516-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	10.00	8.20	7.40
THS4022EVM	296-10028-ND	Evaluation Module for THS4022	—	50.00	—	—
THS4022ID	296-7519-5-ND	Dual 350MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	12.21	10.27	9.44
THS4022IDGN	296-23931-5-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	12.21	10.27	9.44
THS4031CD	296-2406-5-ND	100MHz LN Voltage-Feedback Op Amp	8-SOIC	5.60	4.50	4.10
THS4031EVM	296-10029-ND	Evaluation Module for THS4031	—	50.00	—	—
THS4031ID	296-7522-5-ND	100MHz LN Voltage-Feedback Op Amp	8-SOIC	5.88	4.73	4.31
THS4031IDGN	296-10030-5-ND	100MHz LN Voltage-Feedback Op Amp	8-MSOP	6.44	5.18	4.72
THS4031IDGNR	296-10030-1-ND	100MHz LN Voltage-Feedback Op Amp	8-MSOP	5.85	4.78	4.29
THS4032CD	296-7524-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	9.75	8.00	7.22
THS4032EVM	296-10031-ND	Evaluation Module for THS4032	—	50.00	—	—
THS4032ID	296-7525-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	10.00	8.20	7.40
THS4041CD	296-2407-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.86	5.52	5.03
THS4041EVM	296-10032-ND	Evaluation Module for THS4041	—	50.00	—	—
THS4041ID	296-7528-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.38	5.23	4.72
THS4041IDGN	296-10033-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	6.38	5.23	4.72
THS4042CD	296-7530-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	12.13	9.95	8.98
THS4042EVM	296-10034-ND	Evaluation Module for THS4042	—	50.00	—	—
THS4042ID	296-7532-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	12.38	10.15	9.16
THS4051CD	296-2408-5-ND	70MHz High Speed Amp	8-SOIC	3.05	2.46	2.24
THS4051EVM	296-10035-ND	Evaluation Module for THS4051	—	50.00	—	—
THS4051ID	296-7535-5-ND	70MHz Voltage-Feedback Op Amp	8-SOIC	3.33	2.68	2.44
THS4052CD	296-7537-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	4.65	3.74	3.41
THS4052CDGNR	296-7538-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	4.71	3.85	3.46
THS4052EVM	296-10036-ND	Evaluation Module for THS4052	—	50.00	—	—
THS4052ID	296-7539-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	4.93	3.96	3.61
THS4052IDGNR	296-7540-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	4.98	4.07	3.66
THS4061CD	296-2409-5-ND	180MHz HS, Voltage-Feedback Amp	8-SOIC	4.62	3.72	3.39
THS4061EVM	296-10037-ND	Evaluation Module for THS4061	—	50.00	—	—
THS4061ID	296-7541-5-ND	180MHz HS, Voltage Feedback Amp	8-SOIC	4.90	3.94	3.59
THS4062CD	296-7542-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	7.38	6.05	5.46
THS4062CDGN	296-7543-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	7.38	6.05	5.46
THS4062EVM	296-10038-ND	Evaluation Module for THS4062	—	50.00	—	—
THS4062ID	296-7544-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	7.63	6.26	5.65

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4062IDGN	296-7545-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	7.63	6.26	5.65
THS4062IDGNR	296-7546-1-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	6.76	5.61	5.10
THS4062IDGNR	296-7546-2-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	8287.50/2,500		
THS4081CD	296-2410-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	4.06	3.27	2.98
THS4081ID	296-7548-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	4.34	3.49	3.18
THS4081IDGN	296-10039-5-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	4.90	3.94	3.59
THS4082CD	296-7550-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	6.44	5.18	4.72
THS4082CDGNR	296-7551-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6.30	5.15	4.62
THS4082EVM	296-10040-ND	Evaluation Module for THS4082	—	50.00	—	—
THS4082ID	296-7552-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	6.72	5.40	4.92
THS4082IDGNR	296-7553-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6.60	5.39	4.84
THS4120EVM	296-12054-ND	Evaluation Module for THS4120	—	50.00	—	—
THS4120ID	296-11983-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-SOIC	6.58	5.29	4.82
THS4120IDGK	296-18846-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-MSOP	6.58	5.29	4.82
THS4120IDR	296-11983-1-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	6.00	4.90	4.40
THS4120IDR	296-11983-2-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	6650.00/2,500		
THS4121CD	296-10041-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	6.30	5.07	4.62
THS4121EVM	296-13560-ND	Evaluation Module for THS4121	—	50.00	—	—
THS4121ID	296-10042-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	6.58	5.29	4.82
THS4121IDGK	296-17555-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	6.58	5.29	4.82
THS4130EVM	296-10043-ND	Evaluation Module for THS4130	—	50.00	—	—
THS4130ID	296-7554-5-ND	HS, Low Noise Differential I/O Amp	8-SOIC	8.63	7.08	6.39
THS4130IDGK	296-18847-5-ND	HS, Low Noise Differential I/O Amp	8-MSOP	8.63	7.08	6.39
THS4130IDGN	296-26680-5-ND	HS, Low Noise Differential I/O Amp* ***NEW!***	8-MSOP	9.13	7.49	6.76
THS4130IDGNR	296-10044-1-ND	HS, Low Noise Differential I/O Amp	8-MSOP	8.22	6.82	6.20
THS4130IDGNR	296-10044-2-ND	HS, Low Noise Differential I/O Amp	8-MSOP	10075.00/2,500		
THS4131CD	296-26681-5-ND	HS, Low Noise Differential I/O Amp* ***NEW!***	8-SOIC	8.25	6.77	6.11
THS4131CDGN	296-26682-5-ND	HS, Low Noise Differential I/O Amp* ***NEW!***	8-MSOP	8.75	7.18	6.48
THS4131EVM	296-10045-ND	Evaluation Module for THS4131	—	50.00	—	—
THS4131ID	296-10046-5-ND	150MHz Fully Differential I/O Amp	8-SOIC	8.50	6.97	6.29
THS4131IDGK	296-17881-5-ND	150MHz Fully Differential I/O Amp	8-MSOP	8.50	6.97	6.29
THS4131IDGN	296-21965-5-ND	150MHz Fully Differential I/O Amp	8-MSOP	9.00	7.38	6.66
THS4131IDGNR	296-10047-1-ND	150MHz Fully Differential I/O Amp	8-MSOP	8.08	6.71	6.10
THS4140EVM	296-10048-ND	Evaluation Module for THS4140	—	50.00	—	—
THS4140ID	296-7555-5-ND	Diff. In/Out Op Amp with Shutdown	8-SOIC	10.50	8.61	7.77
THS4140IDGK	296-16778-5-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	10.50	8.61	7.77
THS4140IDGNR	296-10049-1-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	9.28	7.70	7.00
THS4141EVM	296-10050-ND	Evaluation Module for THS4141	—	50.00	—	—
THS4141ID	296-7556-5-ND	HS Fully Differential I/O Amp	8-SOIC	10.50	8.61	7.77
THS4141IDGK	296-16779-5-ND	HS Fully Differential I/O Amp	8-MSOP	10.50	8.61	7.77
THS4141IDGNR	296-12302-1-ND	HS Fully Differential I/O Amp	8-MSOP	9.28	7.70	7.00
THS4150EVM	296-10051-ND	Evaluation Module for THS4150	—	50.00	—	—
THS4150ID	296-10052-5-ND	HS Fully Diff. I/O Amp with Shutdown	8-SOIC	12.54	10.55	9.69
THS4150IDGK	296-16780-5-ND	HS Fully Diff. I/O Amp with Shutdown	8-MSOP	12.54	10.55	9.69
THS4150IDGNR	296-13344-1-ND	HS Fully Diff. I/O Amp with Shutdown	8-MSOP	12.72	10.56	9.60
THS4151EVM	296-10053-ND	Evaluation Module for THS4151	—	50.00	—	—
THS4151ID	296-10054-5-ND	High Speed Fully Diff. I/O Op Amp	8-SOIC	12.54	10.55	9.69
THS4151IDGK	296-16781-5-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	12.54	10.55	9.69
THS4151IDGNR	296-12303-1-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	12.72	10.56	9.60
THS4211D	296-13790-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	7.13	5.85	5.28
THS4211DGK	296-16709-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	7.13	5.85	5.28
THS4211DGN	296-13657-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	7.13	5.85	5.28
THS4211EVM	296-20549-ND	Evaluation Module for THS4211	—	50.00	—	—
THS4211EVM-UG	296-20550-ND	Eval. Module for THS4211 Unity Gain	—	50.00	—	—
THS4215D	296-13791-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	7.13	5.85	5.28
THS4215DGK	296-16711-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	7.13	5.85	5.28
THS4215DGN	296-13658-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	7.13	5.85	5.28
THS4215DRBR	296-16712-1-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SON	7.05	5.76	5.17
THS4215EVM	296-20551-ND	Evaluation Module for THS4215	—	50.00	—	—
THS4221D	296-14194-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	3.22	2.59	2.36
THS4221DGK	296-16782-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.22	2.59	2.36
THS4221DGN	296-14402-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	3.22	2.59	2.36
THS4221EVM	296-18848-ND	Evaluation Module for THS4221	—	50.00	—	—
THS4222D	296-13822-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	4.06	3.27	2.98
THS4222DGK	296-16783-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.06	3.27	2.98
THS4222DGN	296-13638-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.06	3.27	2.98
THS4222EVM	296-20552-ND	Evaluation Module for THS4222	—	50.00	—	—
THS4225D	296-14195-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	4.76	3.83	3.49
THS4225DGK	296-16784-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.76	3.83	3.49
THS4225DGN	296-14403-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	4.76	3.83	3.49
THS4225EVM	296-18849-ND	Evaluation Module for THS4225	—	50.00	—	—
THS4226DGQ	296-13639-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	10-HMSOP	4.06	3.27	2.98
THS4226EVM	296-18850-ND	Evaluation Module for THS4226	—	50.00	—	—
THS4271D	296-13823-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	6.75	5.54	5.00
THS4271DGK	296-16785-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	6.75	5.54	5.00
THS4271DGN	296-13659-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	7.25	5.95	5.37
THS4271EVM	296-20553-ND	Evaluation Module for THS4271	—	50.00	—	—
THS4271EVM-UG	296-20554-ND	Eval. Module for THS4271 Unity Gain	—	50.00	—	—
THS4271MDGNREP	296-18134-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	12.35	10.26	9.32
THS4275D	296-13824-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	7.00	5.74	5.18
THS4275DGK	296-16786-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	7.00	5.74	5.18
THS4275DGN	296-13660-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	7.50	6.15	5.55
THS4275DRBT	296-15406-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	7.02	5.83	5.30
THS4275EVM	296-20555-ND	Evaluation Module for THS4275	—	50.00	—	—
THS4281D	296-16999-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-SOIC	3.05	2.46	2.24
THS4281DBVT	296-17000-1-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	3.15	2.58	2.31
THS4281DBVT	296-17000-2-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	485.75/250		
THS4281DGK	296-17001-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-MSOP	3.05	2.46	2.24
THS4281EVM	296-18851-ND	Evaluation Module for THS4281	—	50.00	—	—
THS4302EVM	296-20556-ND	Evaluation Module for THS4302	—	50.00	—	—
THS4302RGTR	296-14048-1-ND	Wideband Fixed-Gain Amp	16-VQFN	7.69	6.38	5.80
THS4302RGTR	296-14048-2-ND	Wideband Fixed-Gain Amp	16-VQFN	11310.00/3,000		
THS4303EVM	296-18852-ND	Evaluation Module for THS4303	—	50.00	—	—
THS4304D	296-17250-5-ND	Wideband Op Amp	8-SOIC	6.63	5.44	4.91
THS4304DBVEVM	296-18853-ND	Evaluation Module for THS4304DBV	—	50.00	—	—
THS4304DGKEVM	296-18854-ND	Evaluation Module for THS4304DGK	—	50.00	—	—
THS4500EVM	296-20557-ND	Evaluation Module for THS4500	—	50.00	—	—
THS4500ID	296-12935-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	11.13	9.13	8.24
THS4500IDGK	296-16787-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	11.13	9.13	8.24
THS4500IDGN	296-13045-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	11.13	9.13	8.24
THS4501EVM	296-20558-ND	Evaluation Module for THS4501	—	50.00	—	—
THS4501ID	296-12936-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	11.13	9.13	8.24
THS4501IDGK	296-16788-5-ND	Wideband LowDistortion Fully Differential Amp	8-MSOP	11.13	9.13	8.24
THS4501IDGN	296-13046-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	11.13	9.13	8.24
THS4502EVM	296-20559-ND	Evaluation Module for THS4502	—	50.00	—	—
THS4502ID	296-12937-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	12.13	9.95	8.98
THS4502IDGK	296-16789-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	12.13	9.95	8.98
THS4502IDGN	296-13047-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	12.13	9.95	8.98
THS4503EVM	296-20560-ND	Evaluation Module for THS4503	—	50.00	—	—
THS4503ID	296-12938-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	12.13	9.95	8.98
THS4503IDGK	296-16790-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	12.13	9.95	8.98
THS4503IDGN	296-13048-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	12.13	9.95	8.98
THS4504D	296-15618-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	5.60	4.50	4.10
THS4504DGK	296-16796-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	5.60	4.50	4.10
THS4504DGN	296-15619-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	5.60	4.50	4.10
THS4504EVM	296-20561-ND	Evaluation Module for THS4504	—	50.00	—	—
THS4505D	296-15620-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	5.60	4.50	4.10
THS4505DGK	296-16791-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	5.60	4.50	4.10
THS4505DGN	296-15621-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	5.60	4.50	4.10
THS4505EVM	296-20562-ND	Evaluation Module for THS4505	—	50.00	—	—
THS4508EVM	296-21085-ND	Evaluation Module for THS4508	—	50.00	—	—
THS4509EVM	296-18855-ND	Evaluation Module for THS4509	—	50.00	—	—
THS4509RGTT	296-17730-1-ND	Wideband Low Distortion Fully Differential Amp	16-VQFN	11.53	9.57	8.70
THS4509RGTT	296-17730-2-ND	Wideband Low Distortion Fully Differential Amp	16-VQFN	1848.75/250		
THS4511EVM	296-21086-ND	Evaluation Module for THS4511	—	50.00	—	—
THS4511RGTT	296-19325-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-VQFN	11.50	9.75	9.00
THS4513EVM	296-21087-ND	Evaluation Module for THS4513	—	50.00	—	—
THS4513RGTT	296-18594-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-VQFN	12.46	10.34	9.40
THS4513RGTT	296-18594-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-VQFN	1997.50/250		
THS4520RGTT	296-20774-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-VQFN	5.43	4.44	3.99
THS4520RGTT	296-20774-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-VQFN	837.25/250		
THS4521ID	296-24076-5-ND	Very Low Power, R/R Fully Diff. Amp	8-SOIC	3.78	3.04	2.77
THS4521IDGKT	296-24077-1-ND	Very Low Power, R/R Fully Diff. Amp	8-MSOP	3.90	3.19	2.86
THS4521IDGKT	296-24077-2-ND	Very Low Power, R/R Fully Diff. Amp	8-MSOP	601.25/250		
THS4521EVM	296-24160-ND	Eval. Module for THS4521	—	101.00	—	—
THS4522IPW	296-24071-5-ND	Very Low Power, R/R Fully Diff. Amp	16-TSSOP	6.30	5.07	4.62
THS4524IDBT	296-24593-5-ND	Very Low Power, R/R Fully Diff. Amp* ***NEW!***	38-TSSOP	9.50	7.79	7.03
THS4524IDBTR	296-24315-1-ND	Very Low Power, R/R Fully Diff. Amp* ***NEW!***	38-TSSOP	8.35	6.93	6.30

* *RoHS Compliant*

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(Continued)

AMPLIFIERS

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4524IDBTR	296-24315-2-ND	Very Low Power, R/R Fully Diff. Amp* ***NEW!***	38-TSSOP	8190.00/2,000		
THS4601D	296-12495-5-ND	Wideband, FET-Input HS Op Amp	8-SOIC	29.10	24.74	22.92
THS4601EVM	296-20563-ND	Evaluation Module for THS4601	—	50.00	—	—
THS4601IDDA	296-16691-ND	Wideband, FET-Input HS Op Amp	8-HSOIC	29.10	24.74	22.92
THS4631D	296-17626-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-SOIC	10.75	8.82	7.96
THS4631DDA	296-17674-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-HSOIC	11.25	9.23	8.33
THS4631DDAEVM	296-21088-ND	Evaluation Module for THS4631DDA	—	50.00	—	—
THS4631DGN	296-17675-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-MSOP	11.25	9.23	8.33
THS4631DGNEVM	296-21089-ND	Evaluation Module for THS4631DGN	—	50.00	—	—
THS6062CDGN	296-10068-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	10.00	8.20	7.40
THS6062ID	296-10070-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-SOIC	10.00	8.20	7.40
THS6062IDGN	296-10072-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	10.00	8.20	7.40
THS6072CDGN	296-24072-5-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	6.65	5.46	4.93
THS6072ID	296-10075-5-ND	High Speed, Low Power ADSL Differential Receiver	8-SOIC	6.65	5.46	4.93
THS6204IPWP	296-23694-5-ND	Dual Port, Diff. VDSL2 Line Driver Amp	24-HTSSOP	4.76	3.83	3.49
THS6204IRHFT	296-24189-1-ND	Dual Port, Diff. VDSL2 Line Driver Amp* ***NEW!***	24-QFN	4.95	4.05	3.63
THS6204IRHFT	296-24189-2-ND	Dual Port, Diff. VDSL2 Line Driver Amp* ***NEW!***	24-QFN	763.25/250		
THS6214IPWP	296-24828-5-ND	Dual Port, Diff. VDSL2 Line Driver Amp* ***NEW!***	24-HTSSOP	4.76	3.83	3.49
THS6214IRHFR	296-24829-1-ND	Dual Port, Diff. VDSL2 Line Driver Amp* ***NEW!***	24-QFN	4.20	3.43	3.08
THS6214IRHFR	296-24829-2-ND	Dual Port, Diff. VDSL2 Line Driver Amp* ***NEW!***	24-QFN	5586.00/3,000		
THS7001CPWP	296-2411-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	15.40	12.95	11.90
THS7001EVM	296-10077-ND	Evaluation Module for THS7001	—	50.00	—	—
THS7001IPWP	296-7048-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	15.40	12.95	11.90
THS7002CPWP	296-2412-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	20.00	17.00	15.75
THS7002EVM	296-10078-ND	Evaluation Module for THS7002	—	50.00	—	—
THS7002IPWP	296-7049-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	20.00	17.00	15.75
THS7303EVM	296-21090-ND	Evaluation Module for THS7303	—	152.00	—	—
THS7313EVM	296-21091-ND	Evaluation Module for THS7313	—	152.00	—	—
THS7313PW	296-19327-5-ND	3-Channel, LP SDTV Video Amp	20-TSSOP	4.06	3.27	2.98
THS7314D	296-21415-5-ND	3-Channel SDTV Video Amp	8-SOIC	1.68	1.35	1.18
THS7315D	296-22404-5-ND	3-Channel SDTV Video Amp	8-SOIC	1.86	1.50	1.35
THS7316D	296-21671-5-ND	3-Channel HDTV Video Amp	8-SOIC	2.17	1.75	1.58
THS7316DR	296-26684-1-ND	3-Channel HDTV Video Amp* ***NEW!***	8-SOIC	1.93	1.49	1.35
THS7316DR	296-26684-2-ND	3-Channel HDTV Video Amp* ***NEW!***	8-SOIC	1857.50/2,500		
THS7318YZFR	296-21494-1-ND	3-Ch. LP EDTV/SDTV Video Line Driver	9-DSBGA	9.94	8.25	7.50
THS7318YZFR	296-21494-2-ND	3-Ch. LP EDTV/SDTV Video Line Driver	9-DSBGA	14625.00/3,000		
THS7319IZSVT	296-24604-1-ND	3-Ch. LP EDTV Video Amp* ***NEW!***	9-uCSP	3.00	2.45	2.20
THS7319IZSVT	296-24604-2-ND	3-Ch. LP EDTV Video Amp* ***NEW!***	9-uCSP	462.50/250		
THS7327PHP	296-24163-ND	3-Ch. RGBHV Video Buffer*	48-HTQFP	9.63	7.90	7.13
THS7347IPHP	296-21966-5-ND	3-Channel RGBHV Video Buffer	48-HTQFP	8.00	6.56	5.92
THS7353EVM	296-21092-ND	Evaluation Module for THS7353	—	152.00	—	—
THS7353PW	296-19328-5-ND	3-Channel Low Power Video Buffer	20-TSSOP	5.60	4.50	4.10
THS7365IPW	296-24296-5-ND	6-Ch. SDTV/HDTV Video Amp* ***NEW!***	20-TSSOP	2.64	2.13	1.92
THS7368IPW	296-25605-5-ND	6-Channel SDTV Video Amp* ***NEW!***	20-TSSOP	3.05	2.46	2.24
THS7368IPWR	296-25625-1-ND	6-Channel SDTV Video Amp* ***NEW!***	20-TSSOP	3.15	2.43	2.21
THS7368IPWR	296-25625-2-ND	6-Channel SDTV Video Amp* ***NEW!***	20-TSSOP	2430.00/2,000		
THS7373IPW	296-25606-5-ND	4-Ch. SDTV/HDTV Video Amp* ***NEW!***	14-TSSOP	2.20	1.78	1.60
THS7373IPWR	296-25626-1-ND	4-Ch. SDTV/HDTV Video Amp* ***NEW!***	14-TSSOP	2.00	1.54	1.40
THS7373IPWR	296-25626-2-ND	4-Ch. SDTV/HDTV Video Amp* ***NEW!***	14-TSSOP	1540.00/2,000		
THS7374IPW	296-23587-5-ND	4-Channel SDTV Video Amp	14-TSSOP	2.17	1.75	1.58
THS7530EVM	296-18858-ND	Evaluation Module for THS7530	—	50.00	—	—
THS7530PWP	296-15181-5-ND	High Speed, Differential, Continuously Variable Gain Amp	14-HTSSOP	11.88	9.74	8.79
THS8200PFP	296-15622-ND	All-Format Oversampled Component Video/PC Graphics D/A System	80-HTQFP	8.75	7.18	6.48
THS9000EVM	296-18859-ND	Evaluation Module for THS9000	—	50.00	—	—
THS9001DBVT	296-16645-1-ND	50 to 350MHz Cascadeable Amp	SOT-23-6	4.50	3.68	3.30
THS9001EVM	296-18860-ND	Evaluation Module for THS9001	—	50.00	—	—
TL022CP	296-7142-5-ND	Dual, Low Power Op Amp	8-Dip	.83	.65	.57
TL026CD	296-11818-5-ND	Diff. High Frequency Amp with AGC	8-SOIC	2.33	1.88	1.69
TL026CDR	296-24363-1-ND	Diff. High Frequency Amp with AGC* ***NEW!***	8-SOIC	2.10	1.62	1.47
TL026CDR	296-24363-2-ND	Diff. High Frequency Amp with AGC* ***NEW!***	8-SOIC	2025.00/2,500		
TL026CP	296-11819-5-ND	Diff. High Frequency Amp with AGC	8-Dip	2.17	1.75	1.58
TL031CD	296-7143-5-ND	Precision LP JFET Op Amp	8-SOIC	.67	.53	.46
TL031CP	296-7144-5-ND	Precision LP JFET Op Amp	8-Dip	.62	.48	.42
TL032ACD	296-7145-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.79	2.25	2.03
TL032ACP	296-7146-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.80	2.25	2.05
TL032AID	296-12939-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.80	2.25	2.05
TL032AIP	296-7147-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.79	2.25	2.03
TL032CD	296-7148-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	.77	.60	.52
TL032CDR	296-7148-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	.70	.55	.48
TL032CDR	296-7148-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	580.00/2,500		
TL032CP	296-7149-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	.70	.55	.48
TL032ID	296-7150-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	.83	.65	.57
TL032IDR	296-14980-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	.77	.60	.53
TL032IDR	296-14980-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	637.50/2,500		
TL032IP	296-7151-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	.77	.60	.52
TL034ACD	296-7152-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5.60	4.50	4.10
TL034AID	296-7153-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	6.02	4.84	4.41
TL034AIDR	296-7153-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5.55	4.54	4.07
TL034CD	296-7154-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.86	1.50	1.35
TL034CDR	296-14982-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.75	1.35	1.23
TL034CN	296-7155-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-Dip	2.02	1.63	1.47
TL034CPW	296-23295-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-TSSOP	1.86	1.50	1.35
TL034ID	296-7157-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	2.02	1.63	1.47
TL051CD	296-7159-5-ND	Precision Enhanced JFET Op Amp	8-SOIC	.67	.53	.46
TL051CDR	296-24364-1-ND	Prec. Enhanced JFET Op Amp* ***NEW!***	8-SOIC	.77	.54	.47
TL051CDR	296-24364-2-ND	Prec. Enhanced JFET Op Amp* ***NEW!***	8-SOIC	542.50/2,500		
TL052ACD	296-7160-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2.48	2.00	1.80
TL052ACDR	296-14983-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2.28	1.76	1.60
TL052ACDR	296-14983-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2195.00/2,500		
TL052ACP	296-7161-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	2.33	1.88	1.69
TL052CD	296-7162-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	.77	.60	.52
TL052CDR	296-24365-1-ND	Dual Enhanced JFET Low Offset Op Amp* ***NEW!***	8-SOIC	.70	.55	.48
TL052CDR	296-24365-2-ND	Dual Enhanced JFET Low Offset Op Amp* ***NEW!***	8-SOIC	580.00/2,500		
TL052CP	296-7163-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	.70	.55	.48
TL052CPSR	296-13347-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	.77	.60	.53
TL052CPSR	296-13347-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	510.00/2,000		
TL052ID	296-7164-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2.02	1.63	1.47
TL052IP	296-17224-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	2.02	1.63	1.47
TL054ACD	296-7165-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	7.38	6.05	5.46
TL054ACN	296-7166-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	8.00	6.56	5.92
TL054AIDR	296-7167-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	7.16	5.94	5.40
TL054AIDR	296-7167-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	8775.00/2,500		
TL054CD	296-7168-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	2.79	2.25	2.03
TL054CN	296-7169-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	2.48	2.00	1.80
TL054CNSR	296-13348-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	2.80	2.16	1.96
TL054ID	296-11820-5-ND	Quad Enhanced JFET Low Offset Op Amp* ***NEW!***	14-SOIC	2.95	2.38	2.14
TL054IN	296-12940-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	2.94	2.37	2.16
TL061ACD	296-7171-5-ND	Low Power JFET Op Amp	8-SOIC	1.05	.84	.74
TL061ACP	296-7172-5-ND	Low Power JFET Op Amp	8-Dip	.96	.77	.68
TL061CD	296-12941-5-ND	Low Power JFET Op Amp	8-SOIC	.68	.51	.44
TL061CDR	296-26690-1-ND	Low Power JFET Op Amp* ***NEW!***	8-SOIC	.66	.47	.40
TL061CDR	296-26690-2-ND	Low Power JFET Op Amp* ***NEW!***	8-SOIC	465.00/2,500		
TL061CP	296-12942-5-ND	Low Power JFET Op Amp	8-Dip	.62	.49	.43
TL061ID	296-7173-5-ND	Low Power JFET Op Amp	8-SOIC	.62	.49	.43
TL061IP	296-7174-5-ND	Low Power JFET Op Amp	8-Dip	.68	.51	.44
TL062ACD	296-7175-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.96	.75	.65
TL062ACDR	296-14987-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.88	.68	.60
TL062ACDR	296-14987-2-ND	Dual Low Power JFET Op Amp	8-SOIC	725.00/2,500		
TL062ACP	296-12943-5-ND	Dual Low Power JFET Op Amp	8-Dip	.88	.69	.60
TL062BCD	296-12944-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.60	1.28	1.12
TL062BCP	296-7176-5-ND	Dual Low Power JFET Op Amp	8-Dip	1.46	1.18	1.03
TL062CD	296-1281-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.77	.60	.52
TL062CDR	296-1281-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.70	.55	.48
TL062CDR	296-1281-2-ND	Dual Low Power JFET Op Amp	8-SOIC	580.00/2,500		
TL062CP	296-1771-5-ND	Dual Low Power JFET Op Amp	8-Dip	.70	.55	.48
TL062CPSR	296-26691-1-ND	Dual LP JFET Op Amp* ***NEW!***	8-SOIC	.77	.60	.53
TL062CPSR	296-26691-2-ND	Dual LP JFET Op Amp* ***NEW!***	8-SOIC	510.00/2,000		
TL062ID	296-7179-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.83	.65	.57
TL062IDR	296-15072-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.77	.60	.53
TL062IDR	296-15072-2-ND	Dual Low Power JFET Op Amp	8-SOIC	637.50/2,500		
TL062IP	296-12945-5-ND	Dual Low Power JFET Op Amp	8-Dip	.77	.60	.52
TL062IPWR	296-17449-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.77	.60	.53
TL062IPWR	296-17449-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	510.00/2,000		
TL064ACD	296-7180-5-ND	Quad Low Power JFET Op Amp	14-SOIC	1.05	.84	.74
TL064ACN	296-13014-5-ND	Quad Low Power JFET Op Amp	14-Dip	.96	.77	.68
TL064BCD	296-7181-5-ND	Quad Low Power JFET Op Amp	14-SOIC	1.18	.95	.83
TL064BCDR	296-14990-1-ND	Quad Low Power JFET Op Amp	14-SOIC	1.06	.84	.76
TL064BCDR	296-14990-2-ND	Quad Low Power JFET Op Amp	14-SOIC	980.00/2,500		
TL064BCN	296-12946-5-ND	Quad Low Power JFET Op Amp	14-Dip	1.08	.87	.76
TL064CD	296-1772-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.63	.47	.40
TL064CN	296-1773-5-ND	Quad Low Power JFET Op Amp	14-Dip	.68	.51	.43
TL064CPW	296-26692-5-ND	Quad LP JFET Op Amp* ***NEW!***	14-TSSOP	.63	.47	.40
TL064CPWR	296-7182-1-ND	Quad Low Power JFET Op Amp	14-TSSOP	.61	.43	.37
TL064CPWR	296-7182-2-ND	Quad Low Power JFET Op Amp	14-TSSOP	342.00/2,000		
TL064ID	296-7183-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.68	.51	.43
TL064IN	296-7184-5-ND	Quad Low Power JFET Op Amp	14-Dip	.63	.47	.40
TL071ACD	296-26693-5-ND	Low Noise JFET Op Amp* ***NEW!***	8-SOIC	.86	.67	.59
TL071ACDR	296-14993-1-ND	Low Noise JFET Op Amp	8-SOIC	.79	.62	.54
TL071ACP	296-7185-5-ND	Low Noise JFET Op Amp	8-Dip	.79	.62	.54
TL071CD	296-12947-5-ND	Low Noise JFET Op Amp	8-SOIC	.57	.42	.36
TL071CDR	296-14994-1-ND	Low Noise JFET Op Amp	8-SOIC	.55	.39	.33
TL071CDR	296-14994-2-ND	Low Noise JFET Op Amp	8-SOIC	387.50/2,500		
TL071CP	296-7186-5-ND	Low Noise JFET Op Amp	8-Dip	.62	.46	.39
TL071ID	296-7187-5-ND	Low Noise JFET Op Amp	8-SOIC	.62	.46	.39
TL071IP	296-7188-5-ND	Low Noise JFET Op Amp	8-Dip	.67	.49	.42

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL072ACD	296-7189-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.92	.74	.65
TL072ACP	296-7190-5-ND	Dual Low Noise JFET Op Amp	8-Dip	1.00	.81	.71
TL072BCD	296-7191-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	1.30	1.05	.92
TL072BCDR	296-14996-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	1.18	.93	.84
TL072BCDR	296-14996-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	1085.00/2,500		
TL072BCP	296-7192-5-ND	Low Noise JFET Op Amp	8-Dip	1.41	1.13	.99
TL072CD	296-1282-5-ND	Dual JFET-Input Op Amp	8-SOIC	.77	.60	.52
TL072CDR	296-1282-1-ND	Dual JFET-Input Op Amp	8-SOIC	.70	.55	.48
TL072CDR	296-1282-2-ND	Dual JFET-Input Op Amp	8-SOIC	580.00/2,500		
TL072CP	296-1775-5-ND	Dual JFET-Input Op Amp	8-Dip	.83	.65	.57
TL072CPSR	296-26695-1-ND	Dual Low Noise JFET Op Amp* ***NEW!***	8-SOIC	.77	.60	.53
TL072CPSR	296-26695-2-ND	Dual Low Noise JFET Op Amp* ***NEW!***	8-SOIC	510.00/2,000		
TL072CPWR	296-7193-1-ND	Dual Low Noise JFET Op Amp	8-TSSOP	.70	.55	.48
TL072CPWR	296-7193-2-ND	Dual Low Noise JFET Op Amp	8-TSSOP	464.00/2,000		
TL072ID	296-7194-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.77	.60	.52
TL072IDR	296-7194-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.70	.55	.48
TL072IDR	296-7194-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	580.00/2,500		
TL072IP	296-14997-5-ND	Dual Low Noise JFET Op Amp	8-Dip	.70	.55	.48
TL074ACD	296-7195-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	1.01	.81	.71
TL074ACN	296-12948-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.92	.74	.65
TL074BCD	296-7196-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	1.18	.95	.83
TL074BCDR	296-14999-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	1.06	.84	.76
TL074BCDR	296-14999-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	980.00/2,500		
TL074BCN	296-7197-5-ND	Quad Low Noise JFET Op Amp	14-Dip	1.08	.87	.76
TL074CD	296-1283-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.68	.51	.43
TL074CDR	296-1283-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.67	.47	.40
TL074CDR	296-1283-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	470.00/2,500		
TL074CN	296-1777-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.62	.48	.42
TL074CNSR	296-26696-1-ND	Quad LN JFET Op Amp* ***NEW!***	14-SOP	.73	.51	.44
TL074CNSR	296-26696-2-ND	Quad LN JFET Op Amp* ***NEW!***	14-SOP	410.00/2,000		
TL074CPWR	296-7198-1-ND	Quad Low Noise JFET Op Amp	14-TSSOP	.67	.47	.40
TL074CPWR	296-7198-2-ND	Quad Low Noise JFET Op Amp	14-TSSOP	376.00/2,000		
TL074ID	296-7199-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.92	.74	.65
TL074IDR	296-15000-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.97	.75	.66
TL074IDR	296-15000-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	797.50/2,500		
TL074IN	296-7200-5-ND	Quad Low Noise JFET Op Amp	14-Dip	1.00	.81	.71
TL080CP	296-10127-5-ND	JFET Op Amp	8-Dip	1.49	1.19	1.05
TL081ACD	296-7201-5-ND	JFET Op Amp	8-SOIC	.92	.74	.65
TL081ACP	296-7202-5-ND	JFET Op Amp	8-Dip	1.00	.81	.71
TL081CD	296-12949-5-ND	JFET Op Amp	8-SOIC	.57	.42	.36
TL081CDR	296-15001-1-ND	JFET Op Amp	8-SOIC	.55	.39	.33
TL081CDR	296-15001-2-ND	JFET Op Amp	8-SOIC	387.50/2,500		
TL081CP	296-7203-5-ND	JFET Op Amp	8-Dip	.52	.39	.33
TL081ID	296-7204-5-ND	JFET Op Amp	8-SOIC	.62	.46	.39
TL081IDR	296-15002-1-ND	JFET Op Amp	8-SOIC	.61	.43	.37
TL081IDR	296-15002-2-ND	JFET Op Amp	8-SOIC	427.50/2,500		
TL082ACD	296-7205-5-ND	Dual JFET-Input Op Amp	8-SOIC	.96	.75	.65
TL082ACP	296-1778-5-ND	Dual JFET-Input Op Amp	8-Dip	.88	.69	.60
TL082BCD	296-7206-5-ND	Dual JFET-Input Op Amp	8-SOIC	1.30	1.05	.92
TL082BCDR	296-15004-1-ND	Dual JFET-Input Op Amp	8-SOIC	1.18	.93	.84
TL082BCDR	296-15004-2-ND	Dual JFET-Input Op Amp	8-SOIC	1085.00/2,500		
TL082BCP	296-7207-5-ND	Dual JFET-Input Op Amp	8-Dip	1.41	1.13	.99
TL082CD	296-1284-5-ND	Dual JFET-Input Op Amp	8-SOIC	.77	.60	.52
TL082CDR	296-1284-1-ND	Dual JFET-Input Op Amp	8-SOIC	.70	.55	.48
TL082CP	296-1780-5-ND	Dual JFET-Input Op Amp	8-Dip	.83	.65	.57
TL082CPSR	296-26698-1-ND	Dual JFET-Input OP Amp* ***NEW!***	8-SOIC	.77	.60	.53
TL082CPSR	296-26698-2-ND	Dual JFET-Input OP Amp* ***NEW!***	8-SOIC	510.00/2,000		
TL082CPW	296-26699-5-ND	Dual JFET-Input OP Amp* ***NEW!***	8-TSSOP	.77	.60	.52
TL082CPWR	296-7208-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.70	.55	.48
TL082CPWR	296-7208-2-ND	Dual JFET-Input Op Amp	8-TSSOP	464.00/2,000		
TL082ID	296-7209-5-ND	Dual JFET-Input Op Amp	8-SOIC	.83	.65	.57
TL082IDR	296-15005-1-ND	Dual JFET-Input Op Amp	8-SOIC	.77	.60	.53
TL082IDR	296-15005-2-ND	Dual JFET-Input Op Amp	8-SOIC	637.50/2,500		
TL082IP	296-1781-5-ND	Dual JFET-Input Op Amp	8-Dip	.77	.60	.52
TL084ACD	296-7210-5-ND	Quad JFET-Input Op Amp	14-SOIC	.92	.74	.65
TL084ACN	296-1782-5-ND	Quad JFET-Input Op Amp	14-Dip	.97	.76	.66
TL084BCD	296-12950-5-ND	Quad JFET-Input Op Amp	14-SOIC	1.34	1.08	.95
TL084BCDR	296-15007-1-ND	Quad JFET-Input Op Amp	14-SOIC	1.22	.96	.87
TL084BCDR	296-15007-2-ND	Quad JFET-Input Op Amp	14-SOIC	1120.00/2,500		
TL084BCN	296-12951-5-ND	Quad JFET-Input Op Amp	14-Dip	1.46	1.17	1.02
TL084CD	296-1285-5-ND	Quad JFET-Input Op Amp	14-SOIC	.68	.51	.43
TL084CDR	296-1285-1-ND	Quad JFET-Input Op Amp	14-SOIC	.61	.43	.37
TL084CDR	296-1285-2-ND	Quad JFET-Input Op Amp	14-SOIC	427.50/2,500		
TL084CN	296-1784-5-ND	Quad JFET-Input Op Amp	14-Dip	.68	.51	.43
TL084CNSR	296-7211-1-ND	Quad JFET-Input Op Amp	14-SOP	.67	.47	.40
TL084CNSR	296-7211-2-ND	Quad JFET-Input Op Amp	14-SOP	376.00/2,000		
TL084CPW	296-26700-5-ND	Quad JFET-Input Op Amp* ***NEW!***	14-TSSOP	.63	.47	.40
TL084ID	296-1785-5-ND	Quad JFET-Input Op Amp	14-SOIC	.68	.51	.43
TL084IDR	296-1785-1-ND	Quad JFET-Input Op Amp	14-SOIC	.67	.47	.40
TL084IDR	296-1785-2-ND	Quad JFET-Input Op Amp	14-SOIC	470.00/2,500		
TL084IN	296-7213-5-ND	Quad JFET-Input Op Amp	14-Dip	.63	.47	.40
TL084QD	296-7214-5-ND	Quad JFET-Input Op Amp	14-SOIC	.93	.75	.65
TL103WIDR	296-18862-1-ND	Dual Op Amp with Internal Reference	8-SOIC	.79	.62	.54
TL103WIDR	296-18862-2-ND	Dual Op Amp with Internal Reference	8-SOIC	652.50/2,500		
TL343IDBVR	296-12496-1-ND	Single, Low Power Op Amp	SOT-23-5	1.33	1.05	.95
TL343IDBVR	296-12496-2-ND	Single, Low Power Op Amp	SOT-23-5	1470.00/3,000		
TL3474CDR	296-24386-1-ND	Single Op Amp* ***NEW!***	14-SOIC	1.41	1.11	1.00
TL3474CDR	296-24386-2-ND	Single Op Amp* ***NEW!***	14-SOIC	1295.00/2,500		
TL592B-8D	296-10218-5-ND	Differential Video Amplifier	8-SOIC	1.71	1.38	1.24
TL592BP	296-10219-5-ND	Differential Video Amplifier	8-Dip	1.71	1.38	1.24
TL971QDRQ1	296-24878-1-ND	Single, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-SOIC	.86	.67	.59
TL971QDRQ1	296-24878-2-ND	Single, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-SOIC	710.50/2,500		

TEXAS INSTRUMENTS Digi-Reel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL972QDRQ1	296-24869-1-ND	Dual, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-SOIC	.96	.76	.69
TL972QDRQ1	296-24869-2-ND	Dual, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-SOIC	885.50/2,500		
TL972QPWRQ1	296-25175-1-ND	Dual, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-TSSOP	.96	.76	.69
TL972QPWRQ1	296-25175-2-ND	Dual, Output R/R, Very Low Noise Op Amp* ***NEW!***	8-TSSOP	708.40/2,000		
TL974IPWR	296-21861-1-ND	Quad, Output R/R, Very Low Noise Op Amp	14-TSSOP	.99	.78	.71
TL974IPWR	296-21861-2-ND	Quad, Output R/R, Very Low Noise Op Amp	14-TSSOP	728.00/2,000		
TL974QPWRQ1	296-24891-1-ND	Quad, Output R/R, Very Low Noise Op Amp* ***NEW!***	14-TSSOP	1.14	.90	.81
TL974QPWRQ1	296-24891-2-ND	Quad, Output R/R, Very Low Noise Op Amp* ***NEW!***	14-TSSOP	837.20/2,000		
TL3414AIP	296-17553-5-ND	Dual High Output Current Op Amp	8-Dip	1.00	.81	.71
TL3472CD	296-10169-5-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.82	.64	.56
TL3472CP	296-10170-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.88	.69	.60
TL3472IP	296-17679-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.88	.69	.60
TL3474ACDR	296-15623-1-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.71	1.35	1.22
TL3474ACN	296-15624-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.73	1.39	1.22
TL3474ACPWR	296-15116-1-ND	Quad, High Slew Rate, Single Supply Op Amp	14-TSSOP	1.71	1.35	1.22
TL3474ACPWR	296-15116-2-ND	Quad, High Slew Rate, Single Supply Op Amp	14-TSSOP	1260.00/2,000		
TL3474AIN	296-15626-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.73	1.39	1.22
TL3474CD	296-14405-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.55	1.25	1.09
TL3474CN	296-14406-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.42	1.14	1.00
TL3474ID	296-14407-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.55	1.25	1.09
TL3474IN	296-14408-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.42	1.14	1.00
TL3474IPWR	296-15119-1-ND	Quad, High Slew Rate, Single Supply Op Amp	14-TSSOP	1.41	1.11	1.00
TL3474IPWR	296-15119-2-ND	Quad, High Slew Rate, Single Supply Op Amp	14-TSSOP	1036.00/2,000		
TL4581P	296-15628-5-ND	Dual Low Noise High Drive Op Amp	8-Dip	1.16	.93	.81
TL5580AIP	296-21098-5-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-Dip	2.64	2.13	1.92
TL5580AIPWR	296-21099-1-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-TSSOP	2.98	2.30	2.09
TL5580IP	296-21101-5-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-Dip	2.02	1.63	1.47
TLC25L2ACD	296-7297-5-ND	Dual Op Amp	8-SOIC	4.48	3.60	3.28
TLC25L2BCD	296-7298-5-ND	Dual Op Amp	8-SOIC	4.62	3.72	3.39
TLC25L2BCP	296-7299-5-ND	Dual Op Amp	8-Dip	4.62	3.72	3.39
TLC25L2CD	296-7300-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	5.04	4.05	3.69
TLC25L2CP	296-7301-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	4.20	3.38	3.08
TLC25L4ACN	296-7303-5-ND	Quad Op Amp	14-Dip	6.16	4.95	4.51
TLC25L4BCD	296-7304-5-ND	Quad Op Amp	14-SOIC	6.44	5.18	4.72
TLC25L4BCN	296-7305-5-ND	Quad Op Amp	14-Dip	6.44	5.18	4.72
TLC25L4CD	296-7306-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	5.88	4.73	4.31
TLC25L4CN	296-7307-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	5.88	4.73	4.31
TLC25M2ACD	296-7308-5-ND	Dual Op Amp	8-SOIC	4.48	3.60	3.28
TLC25M2ACP	296-7309-5-ND	Dual Op Amp	8-Dip	4.48	3.60	3.28
TLC25M2CP	296-7310-5-ND	Dual Low Power Low Voltage Op Amp	8-Dip	4.20	3.38	3.08
TLC25M4BCN	296-7312-5-ND	Quad Op Amp	14-Dip	6.44	5.18	4.72
TLC25M4CD	296-7313-5-ND	Quad Low Power Low Volt. Op Amp	14-SOIC	5.88	4.73	4.31
TLC25M4CN	296-7314-5-ND	Quad Low Power Low Voltage Op Amp	14-Dip	5.88	4.73	4.31
TLC27L1ACP	296-10259-5-ND	Low Power Op Amp	8-Dip	1.09	.88	.77
TLC27L1CP	296-15120-5-ND	Low Power Op Amp	8-Dip	1.06	.85	.74
TLC27L1ID	296-10260-5-ND	Low Power Op Amp	8-SOIC	1.32	1.06	.93
TLC27L2ACD	296-7369-5-ND	Dual Precision Op Amp	8-SOIC	1.18	.95	.83
TLC27L2ACDR	296-26749-1-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	1.07	.85	.77
TLC27L2ACDR	296-26749-2-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	987.50/2,500		
TLC27L2ACP	296-7370-5-ND	Dual Precision Op Amp	8-Dip	.99	.79	.70
TLC27L2AID	296-7371-5-ND	Dual Precision Op Amp	8-SOIC	1.22	.98	.86
TLC27L2AIDR	296-26750-1-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	1.12	.89	.80
TLC27L2AIDR	296-26750-2-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	1035.00/2,500		
TLC27L2AIP	296-7372-5-ND	Dual Precision Op Amp	8-Dip	1.04	.83	.73
TLC27L2BCD	296-7373-5-ND	Dual Precision Op Amp	8-SOIC	1.38	1.11	.97
TLC27L2BCP	296-7374-5-ND	Dual Precision Op Amp	8-Dip	1.17	.94	.82
TLC27L2BID	296-7375-5-ND	Dual Precision Op Amp	8-SOIC	1.43	1.15	1.00
TLC27L2BIP	296-7376-5-ND	Dual Precision Op Amp	8-Dip	1.22	.98	.86
TLC27L2CD	296-1316-5-ND	Dual Precision Op Amp	8-SOIC	.88	.71	.62
TLC27L2CDR	296-1316-1-ND	Dual Precision Op Amp	8-SOIC	.92	.72	.63
TLC27L2CDR	296-1316-2-ND	Dual Precision Op Amp	8-SOIC	761.25/2,500		
TLC27L2CP	296-7377-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.88	.71	.62
TLC27L2CPS	296-26751-5-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	.88	.71	.62
TLC27L2CPSR	296-7378-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	.92	.72	.63
TLC27L2CPSR	296-7378-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	610.00/2,000		
TLC27L2ID	296-1317-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.92	.74	.65
TLC27L2IDR	296-1317-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.97	.76	.67
TLC27L2IDR	296-1317-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	801.13/2,500		
TLC27L2IP	296-7379-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.88	.69	.60
TLC27L2IPW	296-7380-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-TSSOP	.92	.74	.65
TLC27L2MD	296-7381-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.94	.76	.66

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC27L4ACD	296-1831-5-ND	Quad Precision Op Amp	14-SOIC	1.32	1.06	.93
TLC27L4ACN	296-7382-5-ND	Quad Precision Op Amp	14-Dip	1.11	.90	.78
TLC27L4AID	296-7383-5-ND	Quad Precision Op Amp	14-SOIC	1.38	1.11	.97
TLC27L4AIN	296-7384-5-ND	Quad Precision Op Amp	14-Dip	1.17	.94	.82
TLC27L4BCD	296-7385-5-ND	Quad Precision Op Amp	14-SOIC	1.62	1.30	1.14
TLC27L4BCN	296-7386-5-ND	Quad Precision Op Amp	14-Dip	1.26	1.01	.89
TLC27L4BID	296-7387-5-ND	Quad Precision Op Amp	14-SOIC	1.62	1.30	1.14
TLC27L4BIN	296-7388-5-ND	Quad Precision Op Amp	14-Dip	1.32	1.06	.93
TLC27L4CD	296-1318-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	1.02	.82	.72
TLC27L4CDR	296-1318-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	1.07	.83	.74
TLC27L4CN	296-7389-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.98	.76	.66
TLC27L4ID	296-1319-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	1.07	.86	.75
TLC27L4IDR	296-1319-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.97	.77	.70
TLC27L4IDR	296-1319-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	896.00/2,500		
TLC27L4IN	296-7391-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.90	.72	.63
TLC27L4IPW	296-7392-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	1.07	.86	.75
TLC27L7CD	296-1832-5-ND	Dual Precision Op Amp	8-SOIC	2.67	2.15	1.94
TLC27L7CP	296-7393-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	2.20	1.78	1.60
TLC27L7ID	296-1320-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	2.79	2.25	2.03
TLC27L7IDR	296-1320-1-ND	Dual Precision Op Amp	8-SOIC	2.66	2.06	1.87
TLC27L7IDR	296-1320-2-ND	Dual Precision Op Amp	8-SOIC	2565.00/2,500		
TLC27L7IP	296-7394-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	2.36	1.90	1.71
TLC27L9CD	296-7395-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	3.33	2.68	2.44
TLC27L9CN	296-7396-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.80	2.25	2.05
TLC27L9ID	296-1834-5-ND	Quad Precision Op Amp	14-SOIC	3.47	2.79	2.55
TLC27L9IN	296-7398-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.94	2.37	2.16
TLC27M2ACP	296-7400-5-ND	Dual Precision Op Amp	8-Dip	1.00	.81	.71
TLC27M2AID	296-7401-5-ND	Dual Precision Op Amp	8-SOIC	1.25	1.00	.88
TLC27M2AIP	296-7402-5-ND	Dual Precision Op Amp	8-Dip	1.05	.84	.74
TLC27M2BCD	296-7403-5-ND	Dual Precision Op Amp	8-SOIC	1.38	1.11	.97
TLC27M2BCP	296-7404-5-ND	Dual Precision Op Amp	8-Dip	1.46	1.17	1.02
TLC27M2BID	296-7405-5-ND	Dual Precision Op Amp	8-SOIC	1.43	1.15	1.00
TLC27M2BIP	296-7406-5-ND	Dual Precision Op Amp	8-Dip	1.43	1.15	1.00
TLC27M2CD	296-1321-5-ND	Dual Precision Op Amp	8-SOIC	1.02	.82	.72
TLC27M2CDR	296-1321-1-ND	Dual Precision Op Amp	8-SOIC	1.07	.83	.74
TLC27M2CDR	296-1321-2-ND	Dual Precision Op Amp	8-SOIC	884.50/2,500		
TLC27M2CP	296-1836-5-ND	Dual Precision Op Amp	8-Dip	.98	.76	.66
TLC27M2CPWR	296-7407-1-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	1.07	.83	.74
TLC27M2CPWR	296-7407-2-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	707.60/2,000		
TLC27M2ID	296-1322-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.07	.86	.75
TLC27M2IDR	296-1322-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.97	.77	.70
TLC27M2IDR	296-1322-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	896.00/2,500		
TLC27M2IP	296-7408-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	.90	.72	.63
TLC27M2IPW	296-7409-5-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	1.07	.86	.75
TLC27M2MD	296-7410-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.09	.88	.77
TLC27M4ACD	296-7411-5-ND	Quad Precision Op Amp	14-SOIC	1.24	.99	.87
TLC27M4ACN	296-7412-5-ND	Quad Precision Op Amp	14-Dip	1.03	.83	.73
TLC27M4AID	296-7413-5-ND	Quad Precision Op Amp	14-SOIC	1.29	1.04	.91
TLC27M4AIN	296-7414-5-ND	Quad Precision Op Amp	14-Dip	1.08	.87	.76
TLC27M4BCD	296-7415-5-ND	Quad Precision Op Amp	14-SOIC	1.71	1.38	1.24
TLC27M4BCN	296-7416-5-ND	Quad Precision Op Amp	14-Dip	1.62	1.30	1.14
TLC27M4BID	296-7417-5-ND	Quad Precision Op Amp	14-SOIC	1.83	1.48	1.33
TLC27M4BIN	296-7418-5-ND	Quad Precision Op Amp	14-Dip	1.55	1.25	1.13
TLC27M4CD	296-1837-5-ND	Quad Precision Op Amp	14-SOIC	1.24	.99	.87
TLC27M4CN	296-7419-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	1.03	.83	.73
TLV2621IDBVT	296-15333-1-ND	Single Supply Op Amp	SOT-23-5	1.52	1.20	1.08
TLV2630IDBVR	296-11971-1-ND	9MHz R/R Output Op Amp with SD	SOT-23-6	1.53	1.21	1.09
TLC27M4ID	296-7421-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	1.29	1.04	.91
TLC27M4IN	296-7422-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	1.08	.87	.76
TLC27M4IPWR	296-7423-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	1.17	.93	.84
TLC27M4IPWR	296-7423-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	865.20/2,000		
TLC27M7CDR	296-1323-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	2.49	1.92	1.74
TLC27M7CDR	296-1323-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	2397.50/2,500		
TLC27M7CP	296-1838-5-ND	Dual Precision Op Amp	8-Dip	2.20	1.78	1.60
TLC27M7ID	296-7424-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	2.79	2.25	2.03
TLC27M7IP	296-7425-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	2.36	1.90	1.71
TLC27M9CD	296-7426-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	3.33	2.68	2.44
TLC27M9CN	296-7427-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.80	2.25	2.05
TLC27M9ID	296-7428-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	3.47	2.79	2.55
TLC27M9IN	296-7429-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.94	2.37	2.16
TLC070AIP	296-7216-5-ND	High-Output WB Op Amp	8-Dip	2.17	1.75	1.58
TLC070CD	296-2413-5-ND	High-Output WB Op Amp	8-SOIC	2.33	1.88	1.69
TLC070IP	296-7220-5-ND	High-Output WB Op Amp	8-Dip	2.02	1.63	1.47
TLC071AIP	296-7221-5-ND	High-Output WB Op Amp	8-Dip	2.02	1.63	1.47
TLC071CD	296-2414-5-ND	Single-Supply Op Amp	8-SOIC	1.61	1.30	1.17
TLC071IP	296-7225-5-ND	High-Output WB Op Amp	8-Dip	1.57	1.26	1.11
TLC072AID	296-7226-5-ND	Dual High-Output WB Op Amp	8-SOIC	2.67	2.15	1.94
TLC072AIP	296-7227-5-ND	Dual High-Output WB Op Amp	8-Dip	2.20	1.78	1.60
TLC072CD	296-2415-5-ND	Dual High-Output WB Op Amp	8-SOIC	2.36	1.90	1.71
TLC072CDGNR	296-7228-1-ND	Dual High-Output WB Op Amp	8-MSOP	2.35	1.81	1.65
TLC072CDGNR	296-7228-2-ND	Dual High-Output WB Op Amp	8-MSOP	2262.50/2,500		
TLC072CP	296-7229-5-ND	Dual High-Output WB Op Amp	8-Dip	2.08	1.68	1.51
TLC072IDR	296-7231-1-ND	Dual High-Output WB Op Amp	8-SOIC	2.35	1.81	1.65
TLC072IDR	296-7231-2-ND	Dual High-Output WB Op Amp	8-SOIC	2262.50/2,500		
TLC072IP	296-7232-5-ND	Dual High-Output WB Op Amp	8-Dip	2.08	1.68	1.51
TLC072QDRQ1	296-23627-1-ND	Dual High-Out WB Op Amp	8-SOIC	2.66	2.06	1.87
TLC072QDRQ1	296-23627-2-ND	Dual High-Out WB Op Amp	8-SOIC	2565.00/2,500		
TLC073AID	296-7233-5-ND	Dual High-Output WB Op Amp	14-SOIC	3.36	2.70	2.46
TLC073CD	296-2416-5-ND	Dual High-Output WB Op Amp	14-SOIC	3.08	2.48	2.26
TLC073CDGQ	296-7234-5-ND	Dual High-Output WB Op Amp	10-MSOP	2.95	2.38	2.14
TLC073CN	296-7235-5-ND	Dual High-Output WB Op Amp	14-Dip	2.95	2.38	2.14
TLC073IN	296-7238-5-ND	Dual High-Output WB Op Amp	14-Dip	2.80	2.25	2.05
TLC074AID	296-7239-5-ND	Quad High-Output WB Op Amp	14-SOIC	4.34	3.49	3.18
TLC074AIN	296-7240-5-ND	Quad High-Output WB Op Amp	14-Dip	3.64	2.93	2.67
TLC074AIPWP	296-7241-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.78	3.04	2.77
TLC074CD	296-2417-5-ND	Quad High-Output Op Amp	14-SOIC	3.05	2.46	2.24
TLC074CDR	296-2417-1-ND	Quad High-Output WB Op Amp	14-SOIC	3.15	2.43	2.21
TLC074CDR	296-2417-2-ND	Quad High-Output WB Op Amp	14-SOIC	3037.50/2,500		
TLC074CN	296-7242-5-ND	Quad High-Output WB Op Amp	14-Dip	2.79	2.25	2.03
TLC074IDR	296-7244-1-ND	Quad High-Output WB Op Amp	14-SOIC	3.33	2.57	2.33
TLC074IN	296-7245-5-ND	Quad High-Output WB Op Amp	14-Dip	2.95	2.38	2.14
TLC074IPWP	296-7246-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.80	2.25	2.05
TLC075AID	296-7247-5-ND	Quad High-Output WB Op Amp	16-SOIC	3.47	2.79	2.55
TLC075AIN	296-7248-5-ND	Quad High-Output WB Op Amp	16-Dip	3.05	2.46	2.24
TLC075AIPWP	296-7249-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.19	2.57	2.34
TLC075CD	296-2418-5-ND	Quad High-Output WB Op Amp	16-SOIC	3.64	2.93	2.67
TLC075CN	296-7250-5-ND	Quad High-Output WB Op Amp	16-Dip	3.64	2.93	2.67
TLC075CPWP	296-7251-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.78	3.04	2.77
TLC075IN	296-7253-5-ND	Quad High-Output WB Op Amp	16-Dip	3.78	3.04	2.77
TLC075IPWP	296-7254-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.92	3.15	2.87
TLC080AIP	296-7256-5-ND	High-Output WB Op Amp	8-Dip	2.17	1.75	1.58
TLC080CD	296-2419-5-ND	High-Output WB Op Amp	8-SOIC	2.33	1.88	1.69
TLC080CDGNR	296-7257-1-ND	High-Output WB Op Amp	8-MSOP	2.28	1.76	1.60
TLC080CDGNR	296-7257-2-ND	High-Output WB Op Amp	8-MSOP	2195.00/2,500		
TLC080IDGNR	296-7258-1-ND	High-Output WB Op Amp	8-MSOP	2.28	1.76	1.60
TLC080IDR	296-7259-1-ND	High-Output WB Op Amp	8-SOIC	2.28	1.76	1.60
TLC080IP	296-7260-5-ND	High-Output WB Op Amp	8-Dip	2.02	1.63	1.47
TLC081AIP	296-7261-5-ND	High-Output WB Op Amp	8-Dip	2.02	1.63	1.47
TLC081CD	296-2420-5-ND	Single-Supply Op Amp	8-SOIC	1.61	1.30	1.17
TLC081CDGN	296-7262-5-ND	High-Output WB Op Amp	8-MSOP	1.77	1.43	1.29
TLC081IDR	296-7264-1-ND	High-Output WB Op Amp	8-SOIC	1.71	1.35	1.22
TLC081IDR	296-7264-2-ND	High-Output WB Op Amp	8-SOIC	1572.50/2,500		
TLC081IP	296-7265-5-ND	High-Output WB Op Amp	8-Dip	1.57	1.26	1.11
TLC082AID	296-26728-5-ND	High-Output WB Op Amp* ***NEW!***	8-SOIC	2.67	2.15	1.94
TLC082AIDR	296-7266-1-ND	Dual High-Output WB Op Amp	8-SOIC	2.49	1.92	1.74
TLC082AIP	296-7267-5-ND	Dual High-Output WB Op Amp	8-Dip	2.20	1.78	1.60
TLC082CD	296-2421-5-ND	Dual High-Output WB Op Amp	8-SOIC	2.36	1.90	1.71
TLC082CP	296-7269-5-ND	Dual High-Output WB Op Amp	8-Dip	2.08	1.68	1.51
TLC082IP	296-7272-5-ND	Dual High-Output WB Op Amp	8-Dip	2.08	1.68	1.51
TLC083AID	296-7273-5-ND	Dual High-Output WB Op Amp	14-SOIC	2.94	2.37	2.16
TLC083AIN	296-7274-5-ND	Dual High-Output WB Op Amp	14-Dip	2.94	2.37	2.16
TLC083CD	296-2422-5-ND	Dual High-Output WB Op Amp	14-SOIC	3.08	2.48	2.26
TLC083CDGQR	296-7275-1-ND	Dual High-Output WB Op Amp	10-MSOP	3.33	2.57	2.33
TLC083CN	296-7276-5-ND	Dual High-Output WB Op Amp	14-Dip	2.95	2.38	2.14
TLC083ID	296-7277-5-ND	Dual High-Output WB Op Amp	14-SOIC	2.36	1.90	1.71
TLC083IDGQ	296-7278-5-ND	Dual High-Output WB Op Amp	10-MSOP	2.80	2.25	2.05
TLC083IN	296-7279-5-ND	Dual High-Output WB Op Amp	14-Dip	2.80	2.25	2.05
TLC084AID	296-7280-5-ND	Quad High-Output WB Op Amp	14-SOIC	3.33	2.68	2.44
TLC084AIN	296-7281-5-ND	Quad High-Output WB Op Amp	14-Dip	2.80	2.25	2.05
TLC084AIPWP	296-7282-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.47	2.79	2.55
TLC084CD	296-2423-5-ND	Quad High-Output WB Op Amp	14-SOIC	3.05	2.46	2.24
TLC084CN	296-7283-5-ND	Quad High-Output WB Op Amp	14-Dip	2.79	2.25	2.03
TLC084CPWP	296-7285-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.19	2.57	2.34
TLC084ID	296-7287-5-ND	Quad High-Output WB Op Amp	14-SOIC	3.19	2.57	2.34
TLC084IPWP	296-7288-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.33	2.68	2.44
TLC085AID	296-7289-5-ND	Quad High-Output WB Op Amp	16-SOIC	4.62	3.72	3.39
TLC085AIN	296-7290-5-ND	Quad High-Output WB Op Amp	16-Dip	3.92	3.15	2.87
TLC085AIPWP	296-7291-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	4.06	3.27	2.98
TLC085CD	296-2424-5-ND	Quad High-Output WB Op Amp	16-SOIC	4.34	3.49	3.18
TLC085CN	296-7292-5-ND	Quad High-Output WB Op Amp	16-Dip	3.64	2.93	2.67
TLC085CPWP	296-7293-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.78	3.04	2.77
TLC085IPWP	296-7296-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	3.05	2.46	2.24
TLC251ACD	296-10243-5-ND	Programmable Low Power Op Amp	8-SOIC	3.64	2.93	2.67
TLC251ACP	296-10244-5-ND	Programmable Low Power Op Amp	8-Dip	3.08	2.48	2.26
TLC251BCP	296-10245-5-ND	Programmable Low Power Op Amp	8-Dip	3.22	2.59	2.36
TLC251CD	296-10246-5-ND	Programmable Low Power Op Amp	8-SOIC	2.95	2.38	2.14
TLC251CP	296-10247-5-ND	Programmable Low Power Op Amp	8-Dip	2.95	2.38	2.14
TLC252ACD	296-10248-5-ND	Dual Low Power Op Amp	8-SOIC	4.34	3.49	3.18
TLC252BCD	296-10249-5-ND	Dual Low Power Op Amp	8-SOIC	5.46	4.39	4.00
TLC252BCP	296-10250-5-ND	Dual Low Power Op Amp	8-Dip	4.62	3.72	3.39
TLC252CD	296-10251-5-ND	Dual Low Power Op Amp	8-SOIC	5.04	4.05	3.69
TLC252CP	296-10252-5-ND	Dual Low Power Op Amp	8-Dip	4.20	3.38	3.08
TLC254ACD	296-2902-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	6.16	4.95	4.51
TLC254ACN	296-2903-5-ND	LinCMOS™ Quad Op Amp	14-Dip	6.16	4.95	4.51
TLC254BCD	296-2904-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	6.44	5.18	4.72
TLC254BCN	296-2905-5-ND	LinCMOS™ Quad Op Amp	14-Dip	6.44	5.18	4.72
TLC254CD	296-2906-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	5.88	4.73	4.31
TLC254CN	296-2907-5-ND	LinCMOS™ Quad Op Amp	14-Dip	5.88	4.73	4.31
TLC254ID	296-2908-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	6.16	4.95	4.51
TLC271ACD	296-7338-5-ND	LP Programmable Op Amp	8-SOIC	1.02	.82	.72
TLC271ACP	296-7339-5-ND	LP Programmable Op Amp	8-Dip	.98	.76	.66
TLC271AID	296-7340-5-ND	LP Programmable Op Amp	8-SOIC	1.07	.86	.75
TLC271AIP	296-7341-5-ND	LP Programmable Op Amp	8-Dip	.90	.72	.63
TLC271BCD	296-7342-5-ND	LP Programmable Op Amp	8-SOIC	1.13	.91	.80
TLC271BCP	296-7343-5-ND	LP Programmable Op Amp	8-Dip	.94	.76	.66
TLC271BID	296-7344-5-ND	LP Programmable Op Amp	8-SOIC	1.18	.95	.83
TLC271BIP	296-7345-5-ND	LP Programmable Op Amp	8-Dip	.99	.79	.70

***** ***RoHS Compliant***

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(Continued)

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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC271CD	296-1308-5-ND	LP Programmable Op Amp	8-SOIC	.88	.71	.62
TLC271CP	296-1820-5-ND	LP Programmable Op Amp	8-Dip	.84	.66	.57
TLC271CPS	296-26741-5-ND	LP Programmable Op Amp* ***NEW!***	8-SO	.88	.71	.62
TLC271ID	296-1821-5-ND	LP Programmable Op Amp	8-SOIC	.92	.74	.65
TLC271IP	296-1822-5-ND	LP Programmable Op Amp	8-Dip	.88	.69	.60
TLC272ACD	296-1309-5-ND	Dual Precision Op Amp	8-SOIC	.99	.79	.70
TLC272ACDR	296-1309-1-ND	Dual Precision Op Amp	8-SOIC	1.03	.80	.71
TLC272ACDR	296-1309-2-ND	Dual Precision Op Amp	8-SOIC	852.50/2,500		
TLC272ACP	296-7346-5-ND	Dual Precision Op Amp	8-Dip	.94	.73	.64
TLC272AID	296-7347-5-ND	Dual Precision Op Amp	8-SOIC	1.03	.83	.73
TLC272AIP	296-7348-5-ND	Dual Precision Op Amp	8-Dip	.99	.77	.67
TLC272BCD	296-7349-5-ND	Dual Precision Op Amp	8-SOIC	1.02	.82	.72
TLC272BCDR	296-26742-1-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	1.07	.83	.74
TLC272BCDR	296-26742-2-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	885.00/2,500		
TLC272BCP	296-7350-5-ND	Dual Precision Op Amp	8-Dip	1.02	.82	.72
TLC272BID	296-7351-5-ND	Dual Precision Op Amp	8-SOIC	1.07	.86	.75
TLC272BIDR	296-26743-1-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	.97	.77	.70
TLC272BIDR	296-26743-2-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	895.00/2,500		
TLC272BIP	296-7352-5-ND	Dual Precision Op Amp	8-Dip	.90	.72	.63
TLC272CD	296-1310-5-ND	Dual Precision Op Amp	8-SOIC	.93	.72	.63
TLC272CDR	296-1310-1-ND	Dual Precision Op Amp	8-SOIC	.85	.66	.58
TLC272CDR	296-1310-2-ND	Dual Precision Op Amp	8-SOIC	699.63/2,500		
TLC272CP	296-1824-5-ND	Dual Precision Op Amp	8-Dip	.77	.60	.53
TLC272CPSR	296-7353-1-ND	Dual Single-Supply Op Amp	8-SOP	.85	.66	.58
TLC272CPSR	296-7353-2-ND	Dual Single-Supply Op Amp	8-SOP	560.00/2,000		
TLC272CPW	296-7354-5-ND	Dual Single-Supply Op Amp	8-TSSOP	.93	.72	.63
TLC272CPWR	296-7354-1-ND	Dual Single-Supply Op Amp	8-TSSOP	.85	.66	.58
TLC272CPWR	296-7354-2-ND	Dual Single-Supply Op Amp	8-TSSOP	560.00/2,000		
TLC272ID	296-1311-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.97	.76	.66
TLC272IDR	296-1311-1-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.89	.70	.61
TLC272IDR	296-1311-2-ND	Dual Precision Single-Supply Op Amp	8-SOIC	735.88/2,500		
TLC272IP	296-7355-5-ND	Dual Single-Supply Op Amp	8-Dip	.81	.63	.55
TLC274ACD	296-1825-5-ND	Quad Precision Op Amp	14-SOIC	1.27	1.02	.89
TLC274ACN	296-7356-5-ND	Quad Precision Op Amp	14-Dip	1.06	.85	.74
TLC274AID	296-7357-5-ND	Quad Precision Op Amp	14-SOIC	1.27	1.02	.89
TLC274AIDR	296-26744-1-ND	Quad Precision Op Amp* ***NEW!***	14-SOIC	1.15	.91	.82
TLC274AIDR	296-26744-2-ND	Quad Precision Op Amp* ***NEW!***	14-SOIC	1057.50/2,500		
TLC274AIN	296-7358-5-ND	Quad Precision Op Amp	14-Dip	1.06	.85	.74
TLC274BCD	296-7359-5-ND	Quad Precision Op Amp	14-SOIC	1.41	1.13	.99
TLC274BCN	296-7360-5-ND	Quad Precision Op Amp	14-Dip	1.18	.95	.83
TLC274BID	296-1312-5-ND	Quad Precision Op Amp	14-SOIC	1.41	1.13	.99
TLC274BIDR	296-1312-1-ND	Quad Precision Op Amp	14-SOIC	1.28	1.01	.91
TLC274BIDR	296-1312-2-ND	Quad Precision Op Amp	14-SOIC	1176.00/2,500		
TLC274BIN	296-7361-5-ND	Quad Precision Op Amp	14-Dip	1.18	.95	.83
TLC274CD	296-1313-5-ND	Quad Single-Supply Op Amp	14-SOIC	1.17	.94	.82
TLC274CDR	296-1313-1-ND	Quad Precision Op Amp	14-SOIC	1.05	.84	.75
TLC274CDR	296-1313-2-ND	Quad Precision Op Amp	14-SOIC	969.50/2,500		
TLC274CN	296-1826-5-ND	Quad Precision Op Amp	14-Dip	.97	.78	.68
TLC274CPWR	296-26745-1-ND	Quad Precision Op Amp* ***NEW!***	14-TSSOP	1.05	.84	.75
TLC274CPWR	296-26745-2-ND	Quad Precision Op Amp* ***NEW!***	14-TSSOP	776.00/2,000		
TLC274ID	296-1314-5-ND	Quad Precision Op Amp	14-SOIC	1.17	.94	.82
TLC274IDR	296-1314-1-ND	Quad Precision Op Amp	14-SOIC	1.05	.84	.75
TLC274IDR	296-1314-2-ND	Quad Precision Op Amp	14-SOIC	969.50/2,500		
TLC274IN	296-7362-5-ND	Quad Single-Supply Op Amp	14-Dip	1.17	.94	.82
TLC274IPW	296-14197-5-ND	Quad Single-Supply Op Amp	14-TSSOP	1.17	.94	.82
TLC274MD	296-7363-5-ND	Quad Single-Supply Op Amp	14-SOIC	1.24	1.00	.87
TLC277CD	296-7364-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	2.67	2.15	1.94
TLC277CDR	296-26747-1-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	2.49	1.92	1.74
TLC277CDR	296-26747-2-ND	Dual Precision Op Amp* ***NEW!***	8-SOIC	2397.50/2,500		
TLC277CP	296-1828-5-ND	Dual Precision Op Amp	8-Dip	2.20	1.78	1.60
TLC277ID	296-1829-5-ND	Dual Precision Op Amp	8-SOIC	2.79	2.25	2.03
TLC277IP	296-7365-5-ND	Dual Precision Single-Supply Op Amp	8-Dip	2.36	1.90	1.71
TLC279CD	296-7366-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3.33	2.68	2.44
TLC279CN	296-7367-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.80	2.25	2.05
TLC279ID	296-1315-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3.47	2.79	2.55
TLC279IDR	296-1315-1-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3.15	2.58	2.31
TLC279IDR	296-1315-2-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3491.25/2,500		
TLC279IN	296-7368-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.94	2.37	2.16
TLC393QDR	296-15027-1-ND	Dual Micropower LinCMOS Voltage Comparator	8-SOIC	1.18	.93	.84
TLC1078CD	296-10231-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	6.53	5.36	4.83
TLC1078CP	296-10232-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	6.13	4.93	4.49
TLC1078ID	296-10233-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	6.78	5.56	5.02
TLC1078IP	296-10234-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	6.38	5.13	4.68
TLC1079CD	296-10235-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	9.15	7.51	6.78
TLC1079CN	296-10236-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	7.60	6.24	5.63
TLC1079ID	296-10237-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	9.50	7.79	7.03
TLC1079IN	296-10238-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	7.95	6.52	5.89
TLC2201ACD	296-7050-5-ND	Low Noise Precision Op Amp	8-SOIC	5.46	4.39	4.00
TLC2201AID	296-7052-5-ND	Low Noise Precision Op Amp	8-SOIC	5.71	4.59	4.19
TLC2201AMD	296-7054-5-ND	Low Noise Precision Op Amp	8-SOIC	5.85	4.71	4.29
TLC2201CD	296-2425-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	5.32	4.28	3.90
TLC2201CP	296-10241-5-ND	Low Noise Precision R/R Op Amp	8-Dip	4.40	3.54	3.22
TLC2201IDR	296-7061-1-ND	Low Noise Precision R/R Op Amp	8-SOIC	4.98	4.07	3.66
TLC2201IDR	296-7061-2-ND	Low Noise Precision R/R Op Amp	8-SOIC	5520.00/2,500		
TLC2201ID	296-10242-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	5.46	4.39	4.00
TLC2201IP	296-7062-5-ND	Low Noise Precision R/R Op Amp	8-Dip	4.65	3.74	3.41
TLC2202ACD	296-7063-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	9.13	7.49	6.76
TLC2202AID	296-7065-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	8.00	6.56	5.92
TLC2202CD	296-1807-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	6.65	5.46	4.93
TLC2202CP	296-7071-5-ND	Dual Low Noise Precision Op Amp	8-Dip	6.24	5.02	4.58
TLC2202IP	296-7073-5-ND	Dual Low Noise Precision R/R Op Amp	8-Dip	6.52	5.25	4.78
TLC2252AID	296-7074-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.20	1.78	1.60
TLC2252AIDR	296-26729-1-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.07	1.60	1.45
TLC2252AIDR	296-26729-2-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	1992.50/2,500		
TLC2252AIP	296-7075-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.83	1.48	1.33
TLC2252AIPWR	296-7076-1-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	2.07	1.60	1.45
TLC2252AIPWR	296-7076-2-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	1594.00/2,000		
TLC2252AQD	296-7077-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	1.95	1.58	1.42
TLC2252AQDRG4Q1	296-24514-1-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.21	1.71	1.55
TLC2252AQDRG4Q1	296-24514-2-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2127.50/2,500		
TLC2252CD	296-7078-5-ND	Dual R/R Micropower Op Amp	8-SOIC	2.08	1.68	1.51
TLC2252CDR	296-26730-1-ND	Dual R/R Micropower Op Amp* ***NEW!***	8-SOIC	1.93	1.49	1.35
TLC2252CDR	296-26730-2-ND	Dual R/R Micropower Op Amp* ***NEW!***	8-SOIC	1857.50/2,500		
TLC2252CP	296-7079-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.71	1.38	1.24
TLC2252ID	296-7080-5-ND	Dual R/R Micropower Op Amp	8-SOIC	2.08	1.68	1.51
TLC2252IP	296-7081-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.83	1.48	1.33
TLC2252QD	296-7082-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.83	1.48	1.33
TLC2254AID	296-7083-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.79	2.25	2.03
TLC2254AIDR	296-26731-1-ND	Quad Rail-to-Rail Op Amp* ***NEW!***	14-SOIC	2.66	2.06	1.87
TLC2254AIDR	296-26731-2-ND	Quad Rail-to-Rail Op Amp* ***NEW!***	14-SOIC	2565.00/2,500		
TLC2254AIN	296-7084-5-ND	Quad Rail-to-Rail Op Amp	14-Dip	2.36	1.90	1.71
TLC2254AIPWR	296-7085-1-ND	Quad Rail-to-Rail Op Amp	14-TSSOP	2.66	2.06	1.87
TLC2254AIPWR	296-7085-2-ND	Quad Rail-to-Rail Op Amp	14-TSSOP	2052.00/2,000		
TLC2254AQD	296-7086-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.51	2.03	1.83
TLC2254CD	296-1300-5-ND	Quad R/R Micropower Op Amp	14-SOIC	2.51	2.03	1.83
TLC2254CDR	296-1300-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.49	1.92	1.74
TLC2254CDR	296-1300-2-ND	Quad R/R Micropower Op Amp	14-SOIC	2396.25/2,500		
TLC2254CN	296-7088-5-ND	Quad R/R Micropower Op Amp	14-Dip	2.20	1.78	1.60
TLC2254CPWR	296-7089-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.49	1.92	1.74
TLC2254CPWR	296-7089-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	1918.00/2,000		
TLC2254ID	296-1301-5-ND	Quad Low Power Op Amp	14-SOIC	2.67	2.15	1.94
TLC2254IDR	296-1301-1-ND	Quad Low Power Op Amp	14-SOIC	2.49	1.92	1.74
TLC2254IDR	296-1301-2-ND	Quad Low Power Op Amp	14-SOIC	2396.25/2,500		
TLC2254IN	296-7090-5-ND	Quad R/R Micropower Op Amp	14-Dip	2.20	1.78	1.60
TLC2254QD	296-7091-5-ND	Quad R/R Micropower Op Amp	14-SOIC	2.36	1.90	1.71
TLC2262AID	296-7092-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLC2262AIDR	296-26732-1-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.17	1.68	1.52
TLC2262AIDR	296-26732-2-ND	Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2092.50/2,500		
TLC2262AIP	296-7093-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLC2262AQD	296-7094-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLC2262CD	296-1302-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.20	1.78	1.60
TLC2262CDR	296-1302-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.00	1.54	1.40
TLC2262CDR	296-1302-2-ND	Dual Rail-to-Rail Op Amp	8-SOIC	1923.75/2,500		
TLC2262CP	296-7095-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.77	1.43	1.29
TLC2262CPWR	296-7096-1-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	2.00	1.54	1.40
TLC2262CPWR	296-7096-2-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	1540.00/2,000		
TLC2262ID	296-7097-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.20	1.78	1.60
TLC2262IP	296-7098-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLC2262QD	296-7099-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLC2264AID	296-7100-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.79	2.25	2.03
TLC2264AIN	296-7101-5-ND	Quad Rail-to-Rail Op Amp	14-Dip	2.36	1.90	1.71
TLC2264AIPWR	296-13504-1-ND	Quad Rail-to-Rail Op Amp	14-TSSOP	2.66	2.06	1.87
TLC2264AQD	296-7102-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.51	2.03	1.83
TLC2264CD	296-7103-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.51	2.03	1.83
TLC2264CN	296-7104-5-ND	Quad Rail-to-Rail Op Amp	14-Dip	2.20	1.78	1.60
TLC2264CPW	296-26734-5-ND	Quad Rail-to-Rail Op Amp* ***NEW!***	14-TSSOP	2.51	2.03	1.83
TLC2264ID	296-7106-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.67	2.15	1.94
TLC2264IN	296-7107-5-ND	Quad Rail-to-Rail Op Amp	14-Dip	2.20	1.78	1.60
TLC2264QD	296-7108-5-ND	Quad Rail-to-Rail Op Amp	14-SOIC	2.36	1.90	1.71
TLC2272ACD	296-1303-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.20	1.78	1.60
TLC2272ACDR	296-1303-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.07	1.60	1.45
TLC2272ACDR	296-1303-2-ND	Dual Rail-to-Rail Op Amp	8-SOIC	1991.25/2,500		
TLC2272ACP	296-7109-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.83	1.48	1.33
TLC2272ACPWR	296-7110-1-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	2.07	1.60	1.45
TLC2272ACPWR	296-7110-2-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	1594.00/2,000		
TLC2272AID	296-1304-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLC2272AIDR	296-1304-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.21	1.71	1.55
TLC2272AIDR	296-1304-2-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2127.50/2,500		
TLC2272AIP	296-7112-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.95	1.58	1.42
TLC2272AMD	296-7113-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLC2272AMDREP	296-22409-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	5.37	4.39	3.94
TLC2272AQD	296-7114-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLC2272AQDRQ1	296-15025-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.35	1.81	1.65
TLC2272AQPWRQ1	296-15839-1-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	2.35	1.81	1.65
TLC2272AQPWRQ1	296-15839-2-ND	Dual Rail-to-Rail Op Amp	8-TSSOP	1809.00/2,000		
TLC2272CD	296-1305-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLC2272CDR	296-1305-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.07	1.60	1.45
TLC2272CDR	296-1305-2-ND	Dual Rail-to-Rail Op Amp	8-SOIC	1991.25/2,500		
TLC2272CP	296-1812-5-ND	Dual Rail-to-Rail Op Amp	8-Dip	1.83	1.48	1.33
TLC2272IP	296-7117-5-ND	Dual Low Noise R/R Op Amp	8-Dip	1.83	1.48	1.33
TLC2272IPW	296-26735-5-ND	Dual Low Noise R/R Op Amp* ***NEW!***	8-TSSOP	2.20	1.78	1.60
TLC2272MD	296-7119-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	2.36	1.90	1.71
TLC2272MDR	296-24273-1-ND	Dual Low Noise R/R Op Amp* ***NEW!***	8-SOIC	2.66	2.06	1.87
TLC2272MDR	296-24273-2-ND	Dual Low Noise R/R Op Amp* ***NEW!***	8-SOIC	2565.00/2,500		
TLC2272MDG4	296-22046-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	2.36	1.90	1.71
TLC2272QD	296-7120-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.95	1.58	1.42
TLC2272QDRG4Q1	296-24431-1-ND	Dual Low Noise R/R Op Amp* ***NEW!***	8-SOIC	2.35	1.81	1.65
TLC2272QDRG4Q1	296-24431-2-ND	Dual Low Noise R/R Op Amp* ***NEW!***	8-SOIC	2261.25/2,500		
TLC2274ACD	296-1813-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.48	2.00	1.80
TLC2274ACDR	296-1813-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.35	1.81	1.65
TLC2274ACDR	296-1813-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2262.50/2,500		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.)

AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC2274ACN	296-7121-5-ND	Quad Low Noise R/R Op Amp	14-Dip	2.08	1.68	1.51
TLC2274ACPWR	296-7122-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	2.35	1.81	1.65
TLC2274ACPWR	296-7122-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1810.00/2,000		
TLC2274AID	296-1814-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.57	2.08	1.87
TLC2274AIN	296-7123-5-ND	Quad Low Noise R/R Op Amp	14-Dip	2.20	1.78	1.60
TLC2274AIPW	296-7125-5-ND	Quad Low Noise R/R Op Amp	14-TSSOP	2.57	2.08	1.87
TLC2274AMD	296-7126-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.73	2.20	1.98
TLC2274AQD	296-7127-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.36	1.90	1.71
TLC2274AQDRQ1	296-16952-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.80	2.16	1.96
TLC2274AQDRQ1	296-16952-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2700.00/2,500		
TLC2274AQPWRG4Q1	296-24515-1-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-TSSOP	2.66	2.06	1.87
TLC2274AQPWRG4Q1	296-24515-2-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-TSSOP	2052.00/2,000		
TLC2274CD	296-1306-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.51	2.03	1.83
TLC2274CDR	296-1306-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.49	1.92	1.74
TLC2274CDR	296-1306-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2396.25/2,500		
TLC2274CN	296-7129-5-ND	Quad Low Noise R/R Op Amp	14-Dip	2.20	1.78	1.60
TLC2274CPW	296-26738-5-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-TSSOP	2.51	2.03	1.83
TLC2274ID	296-7131-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.67	2.15	1.94
TLC2274IDR	296-26739-1-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-SOIC	2.49	1.92	1.74
TLC2274IDR	296-26739-2-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-SOIC	2397.50/2,500		
TLC2274IN	296-7132-5-ND	Quad Low Noise R/R Op Amp	14-Dip	2.20	1.78	1.60
TLC2274MD	296-7134-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.79	2.25	2.03
TLC2274QD	296-7135-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.36	1.90	1.71
TLC2274QPWRG4Q1	296-24432-1-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-TSSOP	2.84	2.19	1.99
TLC2274QPWRG4Q1	296-24432-2-ND	Quad Low Noise R/R Op Amp* **NEW!**	14-TSSOP	2187.00/2,000		
TLC2652AIP	296-1818-5-ND	Chopper Op Amp	8-Dip	6.38	5.13	4.68
TLC2652AC-8D	296-7316-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	6.13	4.93	4.49
TLC2652AC-14D	296-7315-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-SOIC	6.13	4.93	4.49
TLC2652ACN	296-7317-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	6.13	4.93	4.49
TLC2652ACP	296-7318-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-Dip	6.13	4.93	4.49
TLC2652AI-8D	296-7319-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	6.78	5.56	5.02
TLC2652AIN	296-7320-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	6.38	5.13	4.68
TLC2652C-8D	296-7321-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	6.92	5.56	5.07
TLC2652CN	296-7322-5-ND	Precision Chopper-Stabilized Op Amp	14-Dip	5.85	4.71	4.29
TLC2652CP	296-7323-5-ND	Precision Chopper-Stabilized Op Amp	8-Dip	5.85	4.71	4.29
TLC2652I-8D	296-7324-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	6.53	5.36	4.83
TLC2652M-8D	296-7325-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	6.65	5.46	4.93
TLC2652Q-8D	296-7326-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	6.38	5.13	4.68
TLC2654AC-8D	296-7327-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	5.60	4.50	4.10
TLC2654ACP	296-7328-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	5.60	4.50	4.10
TLC2654AI-8D	296-7329-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	5.88	4.73	4.31
TLC2654AIP	296-7330-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	5.88	4.73	4.31
TLC2654AQ-8D	296-7331-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	6.16	4.95	4.51
TLC2654C-8D	296-7332-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	4.93	3.96	3.61
TLC2654CN	296-7333-5-ND	LN Chopper-Stabilized Op Amp	14-Dip	4.12	3.31	3.02
TLC2654CP	296-7334-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	4.12	3.31	3.02
TLC2654I-8D	296-7335-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	5.07	4.08	3.72
TLC2654IP	296-7336-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	4.26	3.42	3.12
TLC2654Q-8D	296-7337-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	4.54	3.65	3.33
TLC4501ACD	296-2426-5-ND	Precision, Rail-to-Rail Op Amp	8-SOIC	3.58	2.88	2.63
TLC4501AID	296-10322-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	4.40	3.54	3.22
TLC4501CD	296-10323-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	4.48	3.60	3.28
TLC4502ACD	296-10325-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6.13	4.93	4.49
TLC4502AID	296-10326-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6.38	5.13	4.68
TLC4502AMD	296-10327-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6.52	5.25	4.78
TLC4502AQD	296-10328-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.60	4.50	4.10
TLC4502CD	296-10329-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.85	4.71	4.29
TLC4502ID	296-10330-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6.13	4.93	4.49
TLC4502IDR	296-10330-1-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.55	4.54	4.07
TLC4502IDR	296-10330-2-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6152.50/2,500		
TLC4502MD	296-10331-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	6.24	5.02	4.58
TLC4502QD	296-13358-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.32	4.28	3.90
TLE2021ACD	296-10353-5-ND	HS, Low Power Precision Op Amp	8-SOIC	2.02	1.63	1.47
TLE2021ACP	296-10354-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.71	1.38	1.24
TLE2021AID	296-10355-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.86	1.50	1.35
TLE2021AIP	296-10356-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.86	1.50	1.35
TLE2021CD	296-10357-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.71	1.38	1.24
TLE2021CP	296-10358-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.58	1.26	1.11
TLE2021ID	296-10359-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.86	1.50	1.35
TLE2021IP	296-10360-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.73	1.39	1.22
TLE2021MD	296-10361-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.86	1.50	1.35
TLE2021QDRG4Q1	296-24961-1-ND	HS, Low Power Precision Op Amp* **NEW!**	8-SOIC	1.93	1.49	1.35
TLE2021QDRG4Q1	296-24961-2-ND	HS, Low Power Precision Op Amp* **NEW!**	8-SOIC	1856.25/2,500		
TLE2022ACD	296-12304-5-ND	Dual HS, Low Power Precision Op Amp	8-SOIC	2.83	2.28	2.08
TLE2022ACP	296-10362-5-ND	Dual HS, Low Power Precision Op Amp	8-Dip	2.60	2.10	1.89
TLE2022AID	296-10363-5-ND	Dual HS, Low Power Precision Op Amp	8-SOIC	3.05	2.46	2.24
TLE2022AIP	296-10364-5-ND	Dual HS, Low Power Precision Op Amp	8-Dip	2.85	2.30	2.07
TLE2022AMD	296-10365-5-ND	Dual HS, Low Power Precision Op Amp	8-SOIC	3.05	2.46	2.24
TLE2022CD	296-1873-5-ND	Dual JFET-Input Op Amp	8-SOIC	2.36	1.90	1.71
TLE2022CP	296-10366-5-ND	Dual HS, Low Power Precision Op Amp	8-Dip	1.95	1.58	1.42
TLE2022ID	296-10367-5-ND	Dual HS, Low Power Precision Op Amp	8-SOIC	2.48	2.00	1.80
TLE2022IDR	296-26770-1-ND	Dual HS, LP Prec. Op Amp* **NEW!**	8-SOIC	2.35	1.81	1.65

TEXAS INSTRUMENTS DigiReel® (Cont.)

AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLE2022IDR	296-26770-2-ND	Dual HS, LP Prec. Op Amp* **NEW!**	8-SOIC	2262.50/2,500		
TLE2022IP	296-10368-5-ND	Dual HS, Low Power Precision Op Amp	8-Dip	2.08	1.68	1.51
TLE2022MD	296-10369-5-ND	Dual HS, Low Power Precision Op Amp	8-SOIC	2.48	2.00	1.80
TLE2024ACDW	296-10370-5-ND	Quad HS, Low Power Op Amp	16-SOIC	5.32	4.28	3.90
TLE2024ACN	296-10371-5-ND	Quad High Speed, Low Power Op Amp	14-Dip	4.62	3.72	3.39
TLE2024AIDW	296-10372-5-ND	Quad High Speed, Low Power Op Amp	16-SOIC	5.04	4.05	3.69
TLE2024AIN	296-10373-5-ND	Quad High Speed, Low Power Op Amp	14-Dip	5.04	4.05	3.69
TLE2024BMDW	296-10374-5-ND	Quad High Speed, Low Power Op Amp	16-SOIC	5.74	4.62	4.21
TLE2024CDW	296-10375-5-ND	Quad High Speed, Low Power Op Amp	16-SOIC	4.76	3.83	3.49
TLE2024CN	296-10376-5-ND	Quad High Speed, Low Power Op Amp	14-Dip	4.06	3.27	2.98
TLE2024IDW	296-10377-5-ND	Quad High Speed, Low Power Op Amp	16-SOIC	4.34	3.49	3.18
TLE2024IN	296-10378-5-ND	Quad High Speed, Low Power Op Amp	14-Dip	4.34	3.49	3.18
TLE2024MDW	296-10379-5-ND	Quad High Speed, Low Power Op Amp	16-SOIC	5.18	4.17	3.80
TLE2027AMD	296-10380-5-ND	Low Noise, High Speed Op Amp	8-SOIC	3.50	2.82	2.57
TLE2027CD	296-10381-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.94	2.37	2.16
TLE2027ID	296-10383-5-ND	Low Noise, High Speed Op Amp	8-SOIC	3.22	2.59	2.36
TLE2027MD	296-10385-5-ND	Low Noise, High Speed Op Amp	8-SOIC	3.22	2.59	2.36
TLE2037AMD	296-25131-5-ND	Low Noise, High Speed Op Amp* **NEW!**	8-SOIC	3.50	2.82	2.57
TLE2037CD	296-10386-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.94	2.37	2.16
TLE2037ID	296-10388-5-ND	Low Noise, High Speed Op Amp	8-SOIC	3.22	2.59	2.36
TLE2037MD	296-10389-5-ND	Low Noise, High Speed Op Amp	8-SOIC	3.22	2.59	2.36
TLE2061ACD	296-10390-5-ND	Low Power JFET Op Amp	8-SOIC	3.08	2.48	2.26
TLE2061AID	296-10391-5-ND	Low Power JFET Op Amp	8-SOIC	3.07	2.48	2.23
TLE2061AIP	296-10392-5-ND	Low Power JFET Op Amp	8-Dip	3.07	2.48	2.23
TLE2061CD	296-10393-5-ND	Low Power JFET Op Amp	8-SOIC	2.48	2.00	1.80
TLE2061CP	296-10394-5-ND	Low Power JFET Op Amp	8-Dip	2.02	1.63	1.47
TLE2061ID	296-26771-5-ND	Low Power JFET Op Amp* **NEW!**	8-SOIC	2.64	2.13	1.92
TLE2061MD	296-10395-5-ND	Low Power JFET Op Amp	8-SOIC	2.64	2.13	1.92
TLE2062ACD	296-10396-5-ND	Dual Low Power JFET Op Amp	8-SOIC	4.62	3.72	3.39
TLE2062AID	296-10397-5-ND	Dual Low Power JFET Op Amp	8-SOIC	4.90	3.94	3.59
TLE2062AMD	296-10399-5-ND	Dual Low Power JFET Op Amp	8-SOIC	4.90	3.94	3.59
TLE2062CD	296-1341-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.36	2.70	2.46
TLE2062CDR	296-1341-1-ND	Dual JFET-Input Op Amp	8-SOIC	3.00	2.45	2.20
TLE2062CDR	296-1341-2-ND	Dual JFET-Input Op Amp	8-SOIC	3325.00/2,500		
TLE2062CP	296-10401-5-ND	Dual Low Power JFET Op Amp	8-Dip	2.80	2.25	2.05
TLE2062ID	296-10402-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.64	2.93	2.67
TLE2062IP	296-10403-5-ND	Dual Low Power JFET Op Amp	8-Dip	3.08	2.48	2.26
TLE2062MD	296-10404-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.64	2.93	2.67
TLE2064ACD	296-10405-5-ND	Quad Low Power JFET Op Amp	14-SOIC	6.75	5.54	5.00
TLE2064ACN	296-10406-5-ND	Quad Low Power JFET Op Amp	14-Dip	6.58	5.29	4.82
TLE2064AID	296-10407-5-ND	Quad Low Power JFET Op Amp	14-SOIC	7.13	5.85	5.28
TLE2064AMD	296-10408-5-ND	Quad Low Power JFET Op Amp	14-SOIC	7.13	5.85	5.28
TLE2064CD	296-10409-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.46	4.39	4.00
TLE2064CN	296-10410-5-ND	Quad Low Power JFET Op Amp	14-Dip	4.62	3.72	3.39
TLE2064ID	296-10411-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.88	4.73	4.31
TLE2064IN	296-10412-5-ND	Quad Low Power JFET Op Amp	14-Dip	5.04	4.05	3.69
TLE2064MD	296-10413-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.88	4.73	4.31
TLE2071ACD	296-10414-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2.64	2.13	1.92
TLE2071ACP	296-10415-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	2.17	1.75	1.58
TLE2071AID	296-10416-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2.79	2.25	2.03
TLE2071AIP	296-10417-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	2.33	1.88	1.69
TLE2071AQDRG4Q1	296-24764-1-ND	Low Noise, HS JFET Op Amp* **NEW!**	8-SOIC	2.80	2.16	1.96
TLE2071AQDRG4Q1	296-24764-2-ND	Low Noise, HS JFET Op Amp* **NEW!**	8-SOIC	2700.00/2,500		
TLE2071CD	296-10418-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.86	1.50	1.35
TLE2071CP	296-10419-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.86	1.50	1.35
TLE2071ID	296-10420-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2.48	2.00	1.80
TLE2071IP	296-10421-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	2.17	1.75	1.58
TLE2072ACD	296-10422-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3.36	2.70	2.46
TLE2072ACP	296-10423-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	3.36	2.70	2.46
TLE2072AID	296-10424-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	4.20	3.38	3.08
TLE2072CD	296-1342-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3.22	2.59	2.36
TLE2072CDR	296-1342-1-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3.00	2.45	2.20
TLE2072CDR	296-1342-2-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3325.00/2,500		
TLE2072CP	296-10426-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.80	2.25	2.05
TLE2072ID	296-10427-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3.50	2.82	2.57
TLE2074ACDW	296-10428-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	6.88	5.64	5.09
TLE2074ACN	296-10429-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	6.88	5.64	5.09
TLE2074AIDW	296-10430-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	7.38	6.05	5.46
TLE2074CN	296-10432-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	5.32	4.28	3.90
TLE2074IDW	296-10433-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	5.88	4.73	4.31
TLE2074IN	296-10434-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	5.88	4.73	4.31
TLE2081ACD	296-10435-5-ND	High Speed JFET-In Op Amp	8-SOIC	2.95	2.38	2.14
TLE2081ACP	296-10436-5-ND	High Speed JFET-In Op Amp	8-Dip	2.48	2.00	1.80
TLE2081CD	296-10437-5-ND	High Speed JFET-In Op Amp	8-SOIC	2.17	1.75	1.58
TLE2081CP	296-10438-5-ND	High Speed JFET-In Op Amp	8-Dip	1.71	1.38	1.24
TLE2081ID	296-10439-5-ND	High Speed JFET-In Op Amp	8-SOIC	2.33	1.88	1.69
TLE2082ACD	296-10440-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3.36	2.70	2.46
TLE2082ACP	296-10441-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.79	2.25	2.03
TLE2082AID	296-10442-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3.64	2.93	2.67
TLE2082AIP	296-10443-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	3.08	2.48	2.26
TLE2082CD	296-10444-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3.08	2.48	2.26
TLE2082CP	296-1874-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.79	2.25	2.03
TLE2082ID	296-1343-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3.22	2.59	2.36
TLE2082IDR	296-1343-1-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3.00	2.45	2.20
TLE2082IDR	296-1343-2-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3325.00/2,500		
TLE2082IP	296-10446-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.80	2.25	2.05
TLE2084ACDW	296-10447-5-ND	Quad High Speed JFET Op Amp	16-SOIC	6.25	5.13	4.63
TLE2084ACN	296-10448-5-ND	Quad High Speed JFET Op Amp	14-Dip	6.25	5.13	4.63
TLE2084CDW	296-10449-5-ND	Quad High Speed JFET Op Amp	16-SOIC	5.88	4.73	4.31
TLE2084CN	296-10450-5-ND	Quad High Speed JFET Op Amp	14-Dip	4.90	3.94	3.59

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLE2084IDW	296-10451-5-ND	Quad High Speed JFET Op Amp	16-SOIC	5.32	4.28	3.90
TLE2141ACD	296-10452-5-ND	Single High Speed Precision Op Amp	8-SOIC	2.02	1.63	1.47
TLE2141ACP	296-10453-5-ND	Single High Speed Precision Op Amp	8-Dip	2.02	1.63	1.47
TLE2141AID	296-10454-5-ND	Single High Speed Precision Op Amp	8-SOIC	2.48	2.00	1.80
TLE2141AIP	296-13361-5-ND	Single High Speed Precision Op Amp	8-Dip	2.17	1.75	1.58
TLE2141CD	296-10455-5-ND	Single High Speed Precision Op Amp	8-SOIC	2.02	1.63	1.47
TLE2141CP	296-10456-5-ND	Single High Speed Precision Op Amp	8-Dip	1.71	1.38	1.24
TLE2141ID	296-10457-5-ND	Single High Speed Precision Op Amp	8-SOIC	2.17	1.75	1.58
TLE2141IP	296-10458-5-ND	Single High Speed Precision Op Amp	8-Dip	1.86	1.50	1.35
TLE2142ACD	296-10459-5-ND	Dual High Speed Precision Op Amp	8-SOIC	4.62	3.72	3.39
TLE2142AID	296-10461-5-ND	Dual High Speed Precision Op Amp	8-SOIC	4.76	3.83	3.49
TLE2142AMD	296-1875-5-ND	Dual High Speed Precision Op Amp	8-SOIC	4.76	3.83	3.49
TLE2142AMDRG4	296-22050-1-ND	Dual High Speed Precision Op Amp	8-SOIC	5.10	4.17	3.74
TLE2142AMDRG4	296-22050-2-ND	Dual High Speed Precision Op Amp	8-SOIC	5652.50/2,500		
TLE2142CD	296-10463-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.94	2.37	2.16
TLE2142CP	296-10464-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.94	2.37	2.16
TLE2142CPWR	296-10465-1-ND	Dual High Speed Precision Op Amp	16-TSSOP	2.98	2.30	2.09
TLE2142ID	296-10466-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.22	2.59	2.36
TLE2142IP	296-10467-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.95	2.38	2.14
TLE2142MD	296-10468-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.22	2.59	2.36
TLE2142QDRQ1	296-24924-1-ND	Dual HS Precision Op Amp* **NEW!**	8-SOIC	3.47	2.68	2.43
TLE2142QDRQ1	296-24924-2-ND	Dual HS Precision Op Amp* **NEW!**	8-SOIC	3341.25/2,500		
TLE2144ACN	296-10469-5-ND	Quad High Speed Precision Op Amp	14-Dip	6.25	5.13	4.63
TLE2144AIN	296-10470-5-ND	Quad High Speed Precision Op Amp	14-Dip	6.75	5.54	5.00
TLE2144CDW	296-10471-5-ND	Quad High Speed Precision Op Amp	16-SOIC	5.74	4.62	4.21
TLE2144CN	296-10472-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.90	3.94	3.59
TLE2144IDW	296-10473-5-ND	Quad High Speed Precision Op Amp	16-SOIC	6.30	5.07	4.62
TLE2144IN	296-10474-5-ND	Quad High Speed Precision Op Amp	14-Dip	5.32	4.28	3.90
TLE2144MDW	296-10475-5-ND	Quad High Speed Precision Op Amp	16-SOIC	6.30	5.07	4.62
TLE2161ACD	296-10476-5-ND	Low Power JFET Op Amp	8-SOIC	2.02	1.63	1.47
TLE2161AID	296-10478-5-ND	Low Power JFET Op Amp	8-SOIC	2.48	2.00	1.80
TLE2161CD	296-10480-5-ND	Low Power JFET Op Amp	8-SOIC	2.17	1.75	1.58
TLE2161ID	296-10482-5-ND	Low Power JFET Op Amp	8-SOIC	2.79	2.25	2.03
TLS1233N	296-10491-5-ND	Wide Band Video Preamp System	20-Dip	2.95	2.38	2.14
TLV27L1IDBVR	296-12228-1-ND	1-Channel, R/R Output Op Amp	SOT-23-5	1.51	1.20	1.08
TLV27L1IDBVR	296-12228-2-ND	1-Channel, R/R Output Op Amp	SOT-23-5	1668.00/3,000		
TLV27L2CDGKR	296-17057-1-ND	2-Channel, R/R Output Op Amp	8-MSOP	1.93	1.49	1.35
TLV27L2IDR	296-12230-1-ND	2-Channel, R/R Output Op Amp	8-SOIC	2.07	1.60	1.45
TLV27L2IDR	296-12230-2-ND	2-Channel, R/R Output Op Amp	8-SOIC	1992.50/2,500		
TLV271ID	296-12300-5-ND	550µA/Ch. 3MHz R/R Output Op Amp	8-SOIC	.89	.72	.63
TLV271IDBVR	296-13371-1-ND	550µA/Ch. 3MHz R/R Output Op Amp	SOT-23-5	.97	.77	.69
TLV271IDBVR	296-13371-2-ND	550µA/Ch. 3MHz R/R Output Op Amp	SOT-23-5	1071.00/3,000		
TLV271QDBVRQ1	296-24115-1-ND	550µA/Ch. 3MHz R/R Output Op Amp*	SOT-23-5	1.06	.84	.76
TLV271QDBVRQ1	296-24115-2-ND	550µA/Ch. 3MHz R/R Output Op Amp*	SOT-23-5	1173.00/3,000		
TLV272CD	296-26803-5-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-SOIC	1.21	.97	.85
TLV272CDGK	296-26804-5-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-MSOP	1.21	.97	.85
TLV272CDGKR	296-26805-1-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-MSOP	1.09	.87	.78
TLV272CDGKR	296-26805-2-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-MSOP	1007.50/2,500		
TLV272CDR	296-26806-1-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-SOIC	1.09	.87	.78
TLV272CDR	296-26806-2-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	8-SOIC	1007.50/2,500		
TLV272IDGKR	296-11946-1-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	1.15	.91	.82
TLV272IDGKR	296-11946-2-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	1060.00/2,500		
TLV272IDR	296-10655-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1.15	.91	.82
TLV272IDR	296-10655-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1060.00/2,500		
TLV272IP	296-12671-5-ND	Dual Rail-to-Rail Output Op Amp	8-Dip	1.06	.85	.75
TLV272QDRQ1	296-17870-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1.26	1.00	.90
TLV272QDRQ1	296-17870-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1157.50/2,500		
TLV274CD	296-26809-5-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	14-SOIC	1.62	1.30	1.14
TLV274CPWR	296-12286-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.47	1.17	1.05
TLV274CPWR	296-12286-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1084.00/2,000		
TLV274IDR	296-11981-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.55	1.23	1.10
TLV274IDR	296-11981-2-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1425.00/2,500		
TLV274IN	296-14379-5-ND	Quad 3MHz R/R Out Op Amp	14-Dip	1.42	1.14	1.00
TLV274IPW	296-26812-5-ND	550µA/Ch. 3MHz R/R Output Op Amp* **NEW!**	14-TSSOP	1.55	1.25	1.13
TLV274IPWR	296-11982-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.55	1.23	1.10
TLV274IPWR	296-11982-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1140.00/2,000		
TLV274QDRQ1	296-18300-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.76	1.39	1.25
TLV341AIDBVR	296-17680-1-ND	Low Volt. R/R Output CMOS Op Amp	SOT-23-6	1.22	.96	.87
TLV341AIDBVR	296-17680-2-ND	Low Volt. R/R Output CMOS Op Amp	SOT-23-6	1344.00/3,000		
TLV341AIDCKR	296-17681-1-ND	Low Volt. R/R Output CMOS Op Amp	SC70-6	1.22	.96	.87
TLV341IDBVR	296-17682-1-ND	Low Volt. R/R Output CMOS Op Amp	SOT-23-6	1.03	.81	.73
TLV341IDCKR	296-17683-1-ND	Low Volt. R/R Output CMOS Op Amp	SC70-6	1.03	.81	.73
TLV342IDR	296-21128-1-ND	Dual Low Volt. R/R Out CMOS Op Amp	8-SOIC	1.10	.87	.79
TLV342IRUGR	296-24766-1-ND	Low Voltage R/R Output CMOS Op Amp* **NEW!**	10-QFN	1.22	.96	.87
TLV342IRUGR	296-24766-2-ND	Low Voltage R/R Output CMOS Op Amp* **NEW!**	10-QFN	1344.00/3,000		
TLV342SIRUGR	296-24767-1-ND	Low Voltage R/R Output CMOS Op Amp* **NEW!**	10-QFN	1.22	.96	.87
TLV342SIRUGR	296-24767-2-ND	Low Voltage R/R Output CMOS Op Amp* **NEW!**	10-QFN	1344.00/3,000		
TLV1012-15YDCR	296-24765-1-ND	15.6dB Microphone Audio Amp* **NEW!**	4-DSBGA	1.06	.84	.76
TLV1012-15YDCR	296-24765-2-ND	15.6dB Microphone Audio Amp* **NEW!**	4-DSBGA	1176.00/3,000		
TLV1018-15YDCR	296-24469-1-ND	15dB Microphone Audio Amp* **NEW!**	4-DSBGA	1.29	1.02	.92
TLV1018-15YDCR	296-24469-2-ND	15dB Microphone Audio Amp* **NEW!**	4-DSBGA	1428.00/3,000		
TLV1018-25YDCR	296-24470-1-ND	25dB Microphone Audio Amp* **NEW!**	4-DSBGA	1.29	1.02	.92
TLV1018-25YDCR	296-24470-2-ND	25dB Microphone Audio Amp* **NEW!**	4-DSBGA	1428.00/3,000		
TLV1391IDBVR	296-17618-1-ND	Single Differential Comparator	SOT-23-5	.95	.75	.68
TLV2211CDBVR	296-10500-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.52	1.20	1.08
TLV2211CDBVR	296-10500-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1677.00/3,000		
TLV2211IDBVR	296-10501-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.59	1.26	1.14
TLV2211IDBVR	296-10501-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1761.00/3,000		
TLV2221IDBVT	296-26780-1-ND	LP Rail-to-Rail Op Amp* **NEW!**	SOT-23-5	1.82	1.44	1.30
TLV2221IDBVT	296-26780-2-ND	LP Rail-to-Rail Op Amp* **NEW!**	SOT-23-5	257.50/250		
TLV2231CDBVR	296-12189-1-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1.52	1.20	1.08
TLV2231CDBVR	296-12189-2-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1677.00/3,000		
TLV2231IDBVR	296-10505-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.59	1.26	1.14
TLV2231IDBVR	296-10505-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1761.00/3,000		
TLV2241IDBVT	296-10506-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	2.49	1.92	1.74
TLV2241IDBVT	296-10506-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	355.00/250		
TLV2241IDR	296-10507-1-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	2.17	1.68	1.52
TLV2241IP	296-10508-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLV2242IDGKR	296-10509-1-ND	Dual Micropower R/R Op Amp	8-MSOP	3.01	2.33	2.11
TLV2242IDR	296-10510-1-ND	Dual Micropower R/R Op Amp	8-SOIC	3.01	2.33	2.11
TLV2242IDR	296-10510-2-ND	Dual Micropower R/R Op Amp	8-SOIC	2902.50/2,500		
TLV2244IDR	296-10511-1-ND	Quad Micropower R/R Op Amp	14-SOIC	3.27	2.68	2.40
TLV2244IDR	296-10511-2-ND	Quad Micropower R/R Op Amp	14-SOIC	3625.00/2,500		
TLV2244IPW	296-10512-5-ND	Quad Micropower R/R Op Amp	14-TSSOP	3.72	3.00	2.73
TLV2252AID	296-7430-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	2.36	1.90	1.71
TLV2252AIP	296-7431-5-ND	Dual Low Voltage R/R Op Amp	8-Dip	2.08	1.68	1.51
TLV2252AIPW	296-7432-5-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	2.36	1.90	1.71
TLV2252AQD	296-7433-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	2.08	1.68	1.51
TLV2252ID	296-7434-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	2.36	1.90	1.71
TLV2252IP	296-7435-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.92	1.55	1.40
TLV2252QD	296-7436-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	2.08	1.68	1.51
TLV2254AID	296-7437-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	3.47	2.79	2.55
TLV2254AIN	296-7438-5-ND	Quad Low Voltage R/R Op Amp	14-Dip	2.94	2.37	2.16
TLV2254AQD	296-7440-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	3.05	2.46	2.24
TLV2254ID	296-7441-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3.33	2.68	2.44
TLV2254IN	296-7442-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.80	2.25	2.05
TLV2262AID	296-7443-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.95	2.38	2.14
TLV2262AIP	296-7444-5-ND	Dual Advanced R/R Op Amp	8-Dip	2.51	2.03	1.83
TLV2262AIPWR	296-14378-1-ND	Dual Advanced R/R Op Amp	8-TSSOP	2.84	2.19	1.99
TLV2262AIPWR	296-14378-2-ND	Dual Advanced R/R Op Amp	8-TSSOP	2188.00/2,000		
TLV2262AQD	296-7445-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.67	2.15	1.94
TLV2262AQPWRQ1	296-24224-1-ND	Dual Advanced R/R Op Amp* **NEW!**	8-TSSOP	3.01	2.33	2.11
TLV2262AQPWRQ1	296-24224-2-ND	Dual Advanced R/R Op Amp* **NEW!**	8-TSSOP	2322.00/2,000		
TLV2262ID	296-7446-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	2.20	1.78	1.60
TLV2262IP	296-7447-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.92	1.55	1.40
TLV2262QD	296-7449-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	2.08	1.68	1.51
TLV2264AID	296-7450-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-SOIC	3.72	3.00	2.73
TLV2264AIN	296-7451-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-Dip	3.19	2.57	2.34
TLV2264AIPWR	296-7452-1-ND	Quad Advanced. Rail-to-Rail Op Amp	14-TSSOP	3.42	2.80	2.51
TLV2264IDR	296-7454-1-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3.15	2.58	2.31
TLV2264IDR	296-7454-2-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3492.50/2,500		
TLV2264IN	296-7455-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.94	2.37	2.16
TLV2264QD	296-7457-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3.19	2.57	2.34
TLV2302IDR	296-10513-1-ND	Op Amp with O/C Comparator	8-SOIC	2.98	2.30	2.09
TLV2302IP	296-10514-5-ND	Op Amp with O/C Comparator	8-Dip	2.64	2.13	1.92
TLV2304IN	296-12041-5-ND	Dual Op Amp with Dual O/C Comp.	14-Dip	4.06	3.27	2.98
TLV2322ID	296-7458-5-ND	Dual Low Voltage Micropower Op Amp	8-SOIC	2.51	2.03	1.83
TLV2322IP	296-7459-5-ND	Dual Low Voltage Micropower Op Amp	8-Dip	2.08	1.68	1.51
TLV2322IPWR	296-7460-1-ND	Dual Low Voltage Micropower Op Amp	8-TSSOP	2.35	1.81	1.65
TLV2324ID	296-7461-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	3.47	2.79	2.55
TLV2324IN	296-7462-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	2.94	2.37	2.16
TLV2332ID	296-7465-5-ND	Dual LP Low Voltage Op Amp	8-SOIC	2.33	1.88	1.69
TLV2332IP	296-7466-5-ND	Dual LP Low Voltage Op Amp	8-Dip	2.02	1.63	1.47
TLV2332IPWR	296-7467-1-ND	Dual LP Low Voltage Op Amp	8-TSSOP	2.28	1.76	1.60
TLV2334ID	296-7468-5-ND	Quad LP Low Voltage Op Amp	14-SOIC	4.06	3.27	2.98
TLV2334IN	296-7469-5-ND	Quad LP Low Voltage Op Amp	14-Dip	4.06	3.27	2.98
TLV2334IPWR	296-7470-1-ND	Quad LP Low Voltage Op Amp	14-TSSOP	4.35	3.56	3.19
TLV2341ID	296-7471-5-ND	Low Voltage Programmable Op Amp	8-SOIC	2.95	2.38	2.14
TLV2341IP	296-7472-5-ND	Low Voltage Programmable Op Amp	8-Dip	2.48	2.00	1.80
TLV2342ID	296-7473-5-ND	Dual Low Voltage High-Speed Op Amp	8-SOIC	4.06	3.27	2.98
TLV2342IP	296-7474-5-ND	Dual Low Voltage High-Speed Op Amp	8-Dip	4.06	3.27	2.98
TLV2344ID	296-7475-5-ND	Quad Low Voltage HS Op Amp	14-SOIC	4.76	3.83	3.49
TLV2344IN	296-7476-5-ND	Quad Low Voltage HS Op Amp	14-Dip	4.76	3.83	3.49
TLV2361CDBV	296-10523-5-ND	High Perf. Low Voltage Op Amp	SOT-23-5	1.02	.82	.72
TLV2362IDGKR	296-13995-1-ND	High Perf. Low Voltage Op Amp	8-MSOP	1.06	.82	.72
TLV2362IDR	296-15029-1-ND	High Performance Low Volt. Op Amp	8-SOIC	.84	.65	.57
TLV2362IDR	296-15029-2-ND	High Performance Low Volt. Op Amp	8-SOIC	690.00/2,500		
TLV2362IP	296-10526-5-ND	Dual High Performance Op Amp	8-Dip	.91	.71	.62
TLV2370IDBVR	296-12617-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1.75	1.35	1.23
TLV2370IDBVR	296-12617-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	2025.00/3,000		
TLV2370IDR	296-12298-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1.75	1.35	1.23
TLV2370IDR	296-12298-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1687.50/2,500		
TLV2370IP	296-12217-5-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-Dip	1.55	1.25	1.13
TLV2371IDBVR	296-13057-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1.50	1.19	1.07
TLV2371IDBVR	296-13057-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1662.00/3,000		
TLV2371IDR	296-12299-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1.50	1.19	1.07
TLV2371IDR	296-12299-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1385.00/2,500		
TLV2371IP	296-12218-5-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp with Shutdown	8-Dip	1.39	1.11	.98
TLV2371QDBVRQ1	296-23540-1-ND	550µA/Ch., 3MHz R/R, I/O Op Amp	SOT-23-5	1.76	1.39	1.25
TLV2371QDBVRQ1	296-23540-2-ND	550µA/Ch., 3MHz R/R, I/O Op Amp	SOT-23-5	1941.00/3,000		
TLV2371QDRG4Q1	296-24433-1-ND	550µA/Ch., 3MHz R/R, I/O Op Amp* **NEW!**	8-SOIC	1.76	1.39	1.25
TLV2371QDRG4Q1	296-24433-2-ND	550µA/Ch., 3MHz R/R, I/O Op Amp* **NEW!**	8-SOIC	1617.50/2,500		
TLV2372IDGK	296-26786-5-ND	550µA/Ch., 3MHz R/R, I/O Op Amp* **NEW!**	8-MSOP	2.36	1.90	1.71
TLV2372IDR	296-10528-1-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	2.21	1.71	1.55
TLV2372IDR	296-10528-2-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	2127.50/2,500		
TLV2372IP	296-12219-5-ND	Dual 3MHz R/R In/Out Op Amp	8-Dip	1.95	1.58	1.42
TLV2373IDGSR	296-11624-1-ND	Dual 3MHz R/R Op Amp w/ Shutdown	10-MSOP	2.66	2.06	1.87
TLV2373IDGSR	296-11624-2-ND	Dual 3MHz R/R Op Amp w/ Shutdown	10-MSOP	2565.00/2,500		
TLV2373IN	296-12220-5-ND	Dual 3MHz R/R Op Amp w/ Shutdown	14-Dip	2.36	1.90	1.71
TLV2374IDR	296-11967-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	2.21	1.71	1.55
TLV2374IDR	296-11967-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	2127.50/2,500		
TLV2374IPWR	296-11968-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	2.21	1.71	1.55
TLV2374IPWR	296-11968-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	1702.00/2,000		
TLV2374IN	296-12221-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-Dip	1.95	1.58	1.42
TLV2374MDREP	296-19520-1-ND	Quad 3MHz R/R In/Out Op Amp	14-SOIC	4.98	4.07	3.66
TLV2374MDREP	296-19520-2-ND	Quad 3MHz R/R In/Out Op Amp	14-SOIC	5519.50/2,500		

* RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2375IPWR	296-11970-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	2.49	1.92	1.74
TLV2375IPWR	296-11970-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1918.00/2,000		
TLV2375IN	296-12222-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-Dip	2.20	1.78	1.60
TLV2381IDR	296-12224-1-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	2.00	1.54	1.40
TLV2381IDR	296-12224-2-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1925.00/2,500		
TLV2382IDR	296-12226-1-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	2.66	2.06	1.87
TLV2382IDR	296-12226-2-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	2565.00/2,500		
TLV2401CDBVT	296-26791-1-ND	880nA/Ch., R/R, I/O Op Amp with Reverse Battery Protection* ***NEW!***	SOT-23-5	2.49	1.92	1.74
TLV2401CDBVT	296-26791-2-ND	880nA/Ch., R/R, I/O Op Amp with Reverse Battery Protection* ***NEW!***	SOT-23-5	355.00/250		
TLV2401CDR	296-10530-1-ND	Micropower Op Amp	8-SOIC	2.17	1.68	1.52
TLV2401IDBVT	296-10531-1-ND	Micropower Op Amp	SOT-23-5	2.66	2.06	1.87
TLV2401IDBVT	296-10531-2-ND	Micropower Op Amp	SOT-23-5	380.00/250		
TLV2401IDR	296-10532-1-ND	Micropower Op Amp	8-SOIC	2.35	1.81	1.65
TLV2401IP	296-10533-5-ND	Micropower Op Amp	8-Dip	2.08	1.68	1.51
TLV2402CDR	296-10534-1-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3.33	2.57	2.33
TLV2402CDR	296-10534-2-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3207.50/2,500		
TLV2402ID	296-26792-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection* ***NEW!***	8-SOIC	3.33	2.68	2.44
TLV2402IDGK	296-13799-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-MSOP	3.33	2.68	2.44
TLV2402IP	296-10536-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-Dip	2.80	2.25	2.05
TLV2404AIN	296-13363-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	4.12	3.31	3.02
TLV2404CD	296-2427-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	3.72	3.00	2.73
TLV2404IN	296-10538-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	4.00	3.22	2.94
TLV2422AID	296-10540-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.79	2.25	2.03
TLV2422CD	296-10541-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3.08	2.48	2.26
TLV2422ID	296-10543-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3.08	2.48	2.26
TLV2422QD	296-10544-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.80	2.25	2.05
TLV2432AID	296-10545-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.79	2.25	2.03
TLV2432AQD	296-10547-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.51	2.03	1.83
TLV2432CD	296-10548-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2432ID	296-10549-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2432QD	296-10550-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLV2434AIPWR	296-10551-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	3.15	2.58	2.31
TLV2434AIPWR	296-10551-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2794.00/2,000		
TLV2434CD	296-10552-5-ND	Quad R/R Micropower Op Amp	14-SOIC	3.19	2.57	2.34
TLV2434CPW	296-10553-5-ND	Quad R/R Micropower Op Amp	14-TSSOP	3.19	2.57	2.34
TLV2434IDR	296-10554-1-ND	Quad R/R Micropower Op Amp	14-SOIC	3.00	2.45	2.20
TLV2434IDR	296-10554-2-ND	Quad R/R Micropower Op Amp	14-SOIC	3325.00/2,500		
TLV2442AIDR	296-10556-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.49	1.92	1.74
TLV2442AQD	296-10557-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLV2442AQPW	296-10558-5-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2.36	1.90	1.71
TLV2442CD	296-10559-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2442ID	296-10560-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2442QD	296-10561-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLV2442QDGKRQ1	296-24925-1-ND	Dual, Rail-to-Rail Op Amp* ***NEW!***	8-MSOP	2.17	1.68	1.52
TLV2442QDGKRQ1	296-24925-2-ND	Dual, Rail-to-Rail Op Amp* ***NEW!***	8-MSOP	2092.50/2,500		
TLV2442QPW	296-10562-5-ND	Dual, Rail-to-Rail Op Amp	8-TSSOP	1.92	1.55	1.40
TLV2444CD	296-10564-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.05	2.46	2.24
TLV2444CPW	296-10565-5-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	3.05	2.46	2.24
TLV2450AID	296-10568-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2.80	2.25	2.05
TLV2450AIP	296-10569-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	2.64	2.13	1.92
TLV2450CD	296-1884-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLV2450CDBVR	296-10570-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2.17	1.68	1.52
TLV2450CDBVR	296-10570-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2511.00/3,000		
TLV2450CP	296-1885-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLV2450ID	296-1886-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLV2450IP	296-1887-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLV2451AID	296-10572-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2.95	2.38	2.14
TLV2451AIDR	296-10572-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2.80	2.16	1.96
TLV2451AIDR	296-10572-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2700.00/2,500		
TLV2451AIP	296-10573-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	2.48	2.00	1.80
TLV2451CD	296-1888-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2451CDBVT	296-26793-1-ND	23-µA, 220kHz R/R I/O Op Amp* ***NEW!***	SOT-23-5	2.17	1.68	1.52
TLV2451CDBVT	296-26793-2-ND	23-µA, 220kHz R/R I/O Op Amp* ***NEW!***	SOT-23-5	310.00/250		
TLV2451CP	296-1889-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.77	1.43	1.29
TLV2451ID	296-1890-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2451IDBVR	296-10576-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2.00	1.54	1.40
TLV2451IDBVR	296-10576-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2310.00/3,000		
TLV2451IP	296-1891-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.77	1.43	1.29
TLV2452AIDR	296-10578-1-ND	Dual, Rail-to-Rail Op Amp	8-SOP	3.01	2.33	2.11
TLV2452AIDR	296-10578-2-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2902.50/2,500		
TLV2452AIP	296-10579-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.67	2.15	1.94
TLV2452CD	296-2428-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.95	2.38	2.14
TLV2452CDR	296-2428-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.66	2.06	1.87
TLV2452CDR	296-2428-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2565.00/2,500		
TLV2452CDGKR	296-10580-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.66	2.06	1.87
TLV2452CDGKR	296-10580-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2565.00/2,500		
TLV2452IDR	296-10583-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.84	2.19	1.99
TLV2452IDR	296-10583-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2735.00/2,500		
TLV2452IP	296-10584-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.51	2.03	1.83
TLV2453AIN	296-10586-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	3.36	2.70	2.46
TLV2453CD	296-2429-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.80	2.25	2.05
TLV2453IN	296-10591-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.79	2.25	2.03
TLV2454AID	296-10592-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.58	2.88	2.63
TLV2454AIDR	296-10592-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.27	2.68	2.40
TLV2454AIN	296-10593-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	3.05	2.46	2.24
TLV2454AIPWR	296-10594-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	3.27	2.68	2.40
TLV2454AIPWR	296-10594-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2900.00/2,000		
TLV2454CD	296-2430-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.80	2.25	2.05
TLV2454CN	296-10595-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.80	2.25	2.05
TLV2454ID	296-10596-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.47	2.79	2.55
TLV2454IDR	296-10597-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3.15	2.58	2.31
TLV2454IDR	296-10597-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3492.50/2,500		
TLV2454IN	296-10598-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.94	2.37	2.16
TLV2455AID	296-10600-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	4.00	3.22	2.94
TLV2455AIN	296-10601-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	3.33	2.68	2.44
TLV2455AIPWR	296-10602-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	3.57	2.92	2.62
TLV2455CD	296-2431-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	4.06	3.27	2.98
TLV2455CN	296-10603-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	4.06	3.27	2.98
TLV2455ID	296-10605-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	5.04	4.05	3.69
TLV2455IN	296-10606-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	4.20	3.38	3.08
TLV2460AIP	296-7478-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	2.64	2.13	1.92
TLV2460CD	296-2432-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2.20	1.78	1.60
TLV2460CDBVR	296-7479-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2.17	1.68	1.52
TLV2460CDBVR	296-7479-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2511.00/3,000		
TLV2460CP	296-7480-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.92	1.55	1.40
TLV2460IDBVR	296-7481-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2.17	1.68	1.52
TLV2460IDBVR	296-7481-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2511.00/3,000		
TLV2460IDBVT	296-26794-1-ND	LP R/R I/O Op Amp with SD* ***NEW!***	SOT-23-6	2.49	1.92	1.74
TLV2460IDBVT	296-26794-2-ND	LP R/R I/O Op Amp with SD* ***NEW!***	SOT-23-6	355.00/250		
TLV2460IDR	296-7482-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2.17	1.68	1.52
TLV2460IDR	296-7482-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2092.50/2,500		
TLV2460IP	296-7483-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.92	1.55	1.40
TLV2461AIDR	296-7484-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2.80	2.16	1.96
TLV2461AIDR	296-7484-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2700.00/2,500		
TLV2461AIP	296-7485-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	2.48	2.00	1.80
TLV2461CD	296-7486-5-ND	LP R/R I/O Op Amp with SD* ***NEW!***	8-SOIC	2.08	1.68	1.51
TLV2461CDBVR	296-7487-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2.00	1.54	1.40
TLV2461CDBVR	296-7487-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2310.00/3,000		
TLV2461CDBVT	296-2433-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2.17	1.68	1.52
TLV2461CDBVT	296-2433-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	310.00/250		
TLV2461CP	296-7489-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.77	1.43	1.29
TLV2461IDBVR	296-7490-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2.00	1.54	1.40
TLV2461IDBVR	296-7490-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2310.00/3,000		
TLV2461IP	296-7492-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.77	1.43	1.29
TLV2462AIDR	296-7557-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3.30	2.70	2.42
TLV2462AIP	296-7558-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	3.08	2.48	2.26
TLV2462AMDREP	296-21864-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	6.87	5.62	5.04
TLV2462AQD	296-12066-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3.22	2.59	2.36
TLV2462AQDRQ1	296-17738-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3.60	2.94	2.64
TLV2462AQDRQ1	296-17738-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3990.00/2,500		
TLV2462AQPWR	296-12067-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	3.45	2.82	2.53
TLV2462CD	296-2434-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.95	2.38	2.14
TLV2462CDR	296-2434-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.66	2.06	1.87
TLV2462CDR	296-2434-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2565.00/2,500		
TLV2462CP	296-1892-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.36	1.90	1.71
TLV2462ID	296-7562-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.95	2.38	2.14
TLV2462IDGKR	296-7561-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2.84	2.19	1.99
TLV2462IDGKR	296-7561-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2735.00/2,500		
TLV2462IP	296-1893-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.51	2.03	1.83
TLV2462QD	296-12068-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.67	2.15	1.94
TLV2463AIN	296-7564-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	3.36	2.70	2.46
TLV2463AQD	296-12069-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	3.50	2.82	2.57
TLV2463CD	296-2435-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.80	2.25	2.05
TLV2463CDGS	296-7565-5-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2.80	2.25	2.05
TLV2463CN	296-7567-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.67	2.15	1.94
TLV2463ID	296-1894-5-ND	Dual LP Rail-to-Rail Op Amp	14-SOIC	2.79	2.25	2.03
TLV2463IN	296-1895-5-ND	Dual LP Rail-to-Rail Op Amp	14-Dip	2.79	2.25	2.03
TLV2463QD	296-12071-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.95	2.38	2.14
TLV2464AID	296-26796-5-ND	LP R/R I/O Op Amp with SD* ***NEW!***	14-SOIC	3.58	2.88	2.63
TLV2464AIDR	296-14410-1-ND	Quad LP Rail-to-Rail I/O Op Amp	14-SOIC	3.27	2.68	2.40
TLV2464AIPW	296-14050-5-ND	Quad LP Rail-to-Rail I/O Op Amp	14-TSSOP	3.58	2.88	2.63
TLV2464AQPWRG4Q1	296-24402-1-ND	LP R/R I/O Op Amp with SD* ***NEW!***	14-TSSOP	3.57	2.92	2.62
TLV2464AQPWRG4Q1	296-24402-2-ND	LP R/R I/O Op Amp with SD* ***NEW!***	14-TSSOP	3165.40/2,000		
TLV2464CD	296-2436-5-ND	Quad LP Rail-to-Rail I/O Op Amp	14-SOIC	3.33	2.68	2.44
TLV2464CDR	296-2436-1-ND	Quad LP Rail-to-Rail I/O Op Amp	14-SOIC	3.00	2.45	2.20
TLV2464CDR	296-2436-2-ND	Quad LP Rail-to-Rail I/O Op Amp	14-SOIC	3325.00/2,500		
TLV2464CN	296-7570-5-ND	Quad LP Rail-to-Rail I/O Op Amp	14-Dip	2.80	2.25	2.05
TLV2464CPW	296-26797-5-ND	LP R/R I/O Op Amp with SD* ***NEW!***	14-TSSOP	3.33	2.68	2.44
TLV2464CPWR	296-7571-1-ND	Quad LP Rail-to-Rail I/O Op Amp	14-TSSOP	3.00	2.45	2.20
TLV2464CPWR	296-7571-2-ND	Quad LP Rail-to-Rail I/O Op Amp	14-TSSOP	2660.00/2,000		
TLV2464ID	296-10608-5-ND	Quad LP Rail-to-Rail I/O Op Amp	14-SOIC	3.47	2.79	2.55
TLV2464IN	296-7573-5-ND	Quad LP Rail-to-Rail I/O Op Amp	14-Dip	2.94	2.37	2.16
TLV2465CD	296-2437-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3.58	2.88	2.63
TLV2465CN	296-7577-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	3.05	2.46	2.24
TLV2465ID	296-10609-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3.72	3.00	2.73
TLV2465IN	296-7580-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	3.19	2.57	2.34
TLV2465IPWR	296-7581-1-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	3.42	2.80	2.51
TLV2470AIP	296-7494-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	2.64	2.13	1.92
TLV2470CD	296-2438-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2.20	1.78	1.60
TLV2470CDR	296-2438-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2.17	1.68	1.52
TLV2470CDBVR	296-7495-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2.17	1.68	1.52
TLV2470CP	296-7496-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.92	1.55	1.40
TLV2470IDBVR	296-7497-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2.17	1.68	1.52
TLV2470IDBVR	296-7497-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2511.00/3,000		
TLV2470IP	296-7499-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.92	1.55	1.40
TLV2471AIP	296-7501-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	2.48	2.00	1.80
TLV2471CD	296-2439-5-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	2.08	1.68	1.51
TLV2471CDBVR	296-7502-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2.00	1.54	1.40
TLV2471CDBVR	296-7502-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2310.00/3,000		
TLV2471CP	296-7503-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.77	1.43	1.29
TLV2471IDBVR	296-7504-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2.00	1.54	1.40
TLV2471IDBVR	296-7504-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2310.00/3,000		
TLV2471IP	296-7506-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.77	1.43	1.29
TLV2471QDBVRQ1	296-19366-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2.17	1.68	1.52
TLV2471QDBVRQ1	296-19366-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2511.00/3,000		
TLV2472AID	296-10610-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.80	2.25	2.05
TLV2472AIDR	296-10610-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	3.01	2.33	2.11
TLV2472AIDR	296-10610-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2902.50/2,500		
TLV2472AIP	296-10611-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.67	2.15	1.94
TLV2472CDGNR	296-10612-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.66	2.06	1.87
TLV2472CDGNR	296-10612-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2565.00/2,500		
TLV2472CD	296-2440-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.95	2.38	2.14
TLV2472CDR	296-2440-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.66	2.06	1.87
TLV2472CDR	296-2440-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2565.00/2,500		
TLV2472IDGNR	296-10615-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.84	2.19	1.99
TLV2472IDGNR	296-10615-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2735.00/2,500		
TLV2472ID	296-10614-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.95	2.38	2.14
TLV2472IP	296-10617-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.51	2.03	1.83

** RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2473AID	296-10618-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	3.92	3.15	2.87
TLV2473AIN	296-10619-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	3.36	2.70	2.46
TLV2473CD	296-2441-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.80	2.25	2.05
TLV2473ID	296-10622-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.79	2.25	2.03
TLV2473IN	296-10625-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.79	2.25	2.03
TLV2474AIDR	296-10626-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3.27	2.68	2.40
TLV2474AIDR	296-10626-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3625.00/2,500		
TLV2474AIN	296-10627-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	3.05	2.46	2.24
TLV2474AIPWPR	296-10628-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	3.42	2.80	2.51
TLV2474AIPWR	296-13364-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	3.27	2.68	2.40
TLV2474AIPWR	296-13364-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2899.40/2,000		
TLV2474APWPRQ1	296-18276-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	3.42	2.80	2.51
TLV2474APWPRQ1	296-18276-2-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	3032.40/2,000		
TLV2474AQDRG4Q1	296-25750-1-ND	Quad, 600µA/Ch. 2.8MHz R/R I/O, High Drive Op Amp* ***NEW!***	14-SOIC	3.42	2.80	2.51
TLV2474AQDRG4Q1	296-25750-2-ND	Quad, 600µA/Ch. 2.8MHz R/R I/O, High Drive Op Amp* ***NEW!***	14-SOIC	3790.00/2,500		
TLV2474CD	296-2442-5-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3.33	2.68	2.44
TLV2474CN	296-10630-5-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.80	2.25	2.05
TLV2474ID	296-26801-5-ND	Quad, 600µA/Ch. 2.8MHz R/R I/O, High Drive Op Amp* ***NEW!***	14-SOIC	3.47	2.79	2.55
TLV2474IDR	296-10632-1-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3.15	2.58	2.31
TLV2474IDR	296-10632-2-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3491.25/2,500		
TLV2474IN	296-10633-5-ND	Quad, 600µA/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.94	2.37	2.16
TLV2475AIN	296-10635-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	4.48	3.60	3.28
TLV2475CD	296-2443-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	4.76	3.83	3.49
TLV2475CN	296-10638-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	4.06	3.27	2.98
TLV2475IN	296-10641-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	4.20	3.38	3.08
TLV2711CDBVR	296-10651-1-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1.41	1.12	1.01
TLV2711CDBVR	296-10651-2-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1557.00/3,000		
TLV2721CDBVR	296-10653-1-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1.41	1.12	1.01
TLV2721IDBVR	296-10654-1-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1.48	1.17	1.06
TLV2731CDBVR	296-10656-1-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1.41	1.12	1.01
TLV2731CDBVR	296-10656-2-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1557.00/3,000		
TLV2731IDBVR	296-10657-1-ND	Low Power, Rail-to-Rail Op Amp	SOT-23-5	1.48	1.17	1.06
TLV2760ID	296-10658-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	2.08	1.68	1.51
TLV2760IDBVT	296-10659-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	2.49	1.92	1.74
TLV2760IDBVT	296-10659-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	355.00/250		
TLV2760IP	296-10660-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	2.08	1.68	1.51
TLV2761ID	296-10661-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.92	1.55	1.40
TLV2761IDBVT	296-10662-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	2.35	1.81	1.65
TLV2761IDBVT	296-10662-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	335.00/250		
TLV2761IP	296-10663-5-ND	Low Power, Single Rail-to-Rail Op Amp	8-Dip	1.92	1.55	1.40
TLV2762IDGKR	296-10664-1-ND	Low Power, Dual Rail-to-Rail Op Amp	8-TSSOP	3.01	2.33	2.11
TLV2762IDGKR	296-10664-2-ND	Low Power, Dual Rail-to-Rail Op Amp	8-TSSOP	2902.50/2,500		
TLV2763CD	296-10666-5-ND	Low Power, Dual Rail-to-Rail Op Amp	14-SOIC	2.94	2.37	2.16
TLV2763IDR	296-10668-1-ND	Low Power, Dual Rail-to-Rail Op Amp	14-SOIC	3.33	2.57	2.33
TLV2763IN	296-10669-5-ND	Low Power, Dual Rail-to-Rail Op Amp	14-Dip	2.95	2.38	2.14
TLV2764IDR	296-10670-1-ND	Micropower Single R/R Op Amp	14-SOIC	3.27	2.68	2.40
TLV2764IDR	296-10670-2-ND	Micropower Single R/R Op Amp	14-SOIC	3625.00/2,500		
TLV2764IN	296-14051-5-ND	Micropower Single R/R Op Amp	14-Dip	3.05	2.46	2.24
TLV2764IPWR	296-10671-1-ND	Micropower Single R/R Op Amp	14-TSSOP	3.27	2.68	2.40
TLV2764IPWR	296-10671-2-ND	Micropower Single R/R Op Amp	14-TSSOP	2900.00/2,000		
TLV2765IPWR	296-10673-1-ND	Micropower Single R/R Op Amp	16-TSSOP	4.80	3.92	3.52
TLV2765IPWR	296-10673-2-ND	Micropower Single R/R Op Amp	16-TSSOP	4256.00/2,000		
TLV2770AIP	296-7583-5-ND	Single 2.7V R/R Op Amp with SD	8-Dip	2.95	2.38	2.14
TLV2770CD	296-1896-5-ND	Single 2.7V R/R Op Amp with SD	8-SOIC	2.51	2.03	1.83
TLV2770CDR	296-1896-1-ND	Single 2.7V R/R Op Amp with SD	8-SOIC	2.35	1.81	1.65
TLV2770CP	296-1897-5-ND	Single 2.7V R/R Op Amp with SD	8-Dip	2.08	1.68	1.51
TLV2770IDGKR	296-7585-1-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2.49	1.92	1.74
TLV2770IDGKR	296-7585-2-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2396.25/2,500		
TLV2770IP	296-1899-5-ND	Single 2.7V R/R Op Amp with SD	8-Dip	2.20	1.78	1.60
TLV2771AIDR	296-7586-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	3.15	2.43	2.21
TLV2771CD	296-1900-5-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLV2771CDBVR	296-1346-1-ND	Single 2.7V Rail-to-Rail Op Amp	SOT-23-5	2.17	1.68	1.52
TLV2771CDBVR	296-1346-2-ND	Single 2.7V Rail-to-Rail Op Amp	SOT-23-5	2511.00/3,000		
TLV2771ID	296-10674-5-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2.36	1.90	1.71
TLV2771IDBVR	296-1347-1-ND	Single 2.7V Rail-to-Rail Op Amp	SOT-23-5	2.35	1.81	1.65
TLV2771IDBVR	296-1347-2-ND	Single 2.7V Rail-to-Rail Op Amp	SOT-23-5	2715.00/3,000		
TLV2771IDR	296-10674-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2.35	1.81	1.65
TLV2771IDR	296-10674-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2262.50/2,500		
TLV2772AID	296-7587-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD* ***NEW!***	8-SOIC	3.19	2.57	2.34
TLV2772AIP	296-7588-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-Dip	2.91	2.35	2.12
TLV2772AMD	296-7589-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	3.19	2.57	2.34
TLV2772AMDREP	296-19523-1-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	6.68	5.55	5.04
TLV2772AQD	296-10675-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	2.80	2.25	2.05
TLV2772AQPW	296-10676-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-TSSOP	2.80	2.25	2.05
TLV2772CD	296-10677-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	2.94	2.37	2.16
TLV2772CDGK	296-7591-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-MSOP	2.94	2.37	2.16
TLV2772CP	296-7592-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-Dip	2.67	2.15	1.94
TLV2772ID	296-1902-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	3.05	2.46	2.24
TLV2772IDGKR	296-7593-1-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-MSOP	3.15	2.43	2.21
TLV2772IDGKR	296-7593-2-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-MSOP	3037.50/2,500		
TLV2772IP	296-1903-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-Dip	2.79	2.25	2.03
TLV2772MD	296-7594-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	3.05	2.46	2.24
TLV2772QD	296-10678-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-SOIC	2.91	2.35	2.12
TLV2772QPW	296-10679-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	8-TSSOP	2.91	2.35	2.12
TLV2773AIN	296-7596-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	14-Dip	3.92	3.15	2.87
TLV2773CDR	296-2444-1-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	14-SOIC	3.75	3.07	2.75
TLV2773CDGS	296-7597-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	10-MSOP	4.20	3.38	3.08
TLV2773IN	296-7601-5-ND	Dual 2.7V Rail-to-Rail Op Amp with SD	14-Dip	3.64	2.93	2.67
TLV2774AID	296-26813-5-ND	Quad 2.7V Rail-to-Rail Op Amp with SD* ***NEW!***	14-SOIC	5.46	4.39	4.00
TLV2774AIN	296-7603-5-ND	Quad 2.7V R/R Op Amp with SD	14-Dip	4.62	3.72	3.39
TLV2774CD	296-1904-5-ND	Quad 2.7V R/R Op Amp with SD	14-SOIC	3.86	3.11	2.83
TLV2774CN	296-1905-5-ND	Quad 2.7V R/R Op Amp with SD	14-Dip	3.19	2.57	2.34
TLV2774CPWR	296-7604-1-ND	Quad 2.7V R/R Op Amp with SD	14-TSSOP	3.42	2.80	2.51
TLV2774CPWR	296-7604-2-ND	Quad 2.7V R/R Op Amp with SD	14-TSSOP	3032.00/2,000		
TLV2774ID	296-1906-5-ND	Quad 2.7V R/R Op Amp with SD	14-SOIC	4.00	3.22	2.94
TLV2774IN	296-1907-5-ND	Quad 2.7V R/R Op Amp with SD	14-Dip	3.33	2.68	2.44
TLV2775AIN	296-7606-5-ND	Quad 2.7V R/R Op Amp with SD	16-Dip	5.04	4.05	3.69
TLV2775AIPW	296-10680-5-ND	Quad 2.7V R/R Op Amp with SD	16-TSSOP	5.88	4.73	4.31
TLV2775CD	296-1908-5-ND	Quad 2.7V R/R Op Amp with SD	16-SOIC	3.47	2.79	2.55
TLV2775CN	296-1909-5-ND	Quad 2.7V R/R Op Amp with SD	16-Dip	3.47	2.79	2.55
TLV2775ID	296-1910-5-ND	Quad 2.7V R/R Op Amp with SD	16-SOIC	4.26	3.42	3.12
TLV2775IN	296-7607-5-ND	Quad 2.7V R/R Op Amp with SD	16-Dip	3.72	3.00	2.73
TLV2780IDBVR	296-7608-1-ND	8MHz, 1.8V R/R Op Amp with SD	SOT-23-6	2.49	1.92	1.74
TLV2782AID	296-7612-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	4.06	3.27	2.98
TLV2782CD	296-2445-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.94	2.37	2.16
TLV2782CDGKR	296-7613-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	3.01	2.33	2.11
TLV2782CDGKR	296-7613-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2902.50/2,500		
TLV2782ID	296-11652-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	3.05	2.46	2.24
TLV2782IDGKR	296-7615-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	3.15	2.43	2.21
TLV2782IP	296-7616-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-Dip	2.79	2.25	2.03
TLV2783AID	296-13372-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3.78	3.04	2.77
TLV2783CD	296-10684-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	4.06	3.27	2.98
TLV2783ID	296-2446-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3.64	2.93	2.67
TLV2783IN	296-10686-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-Dip	3.64	2.93	2.67
TLV2784AID	296-10687-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	4.48	3.60	3.28
TLV2784IDR	296-10688-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3.57	2.92	2.62
TLV2784IPW	296-10689-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	3.86	3.11	2.83
TLV2785AID	296-10690-5-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	4.90	3.94	3.59
TLV2785CPWR	296-10691-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	4.80	3.92	3.52
TLV3012AIDCKR	296-26816-1-ND	1.8V, Nanopower Push-Pull Comparator* ***NEW!***	SC-70-6	2.63	2.03	1.84
TLV3012AIDCKR	296-26816-2-ND	1.8V, Nanopower Push-Pull Comparator* ***NEW!***	SC-70-6	3039.00/3,000		
TLV3401CDBVT	296-26821-1-ND	Single Nanopower Open Drain Output Comparator* ***NEW!***	SOT-23-5	2.45	1.89	1.72
TLV3401CDBVT	296-26821-2-ND	Single Nanopower Open Drain Output Comparator* ***NEW!***	SOT-23-5	350.00/250		
TLV3404IDR	296-10710-1-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	3.45	2.82	2.53
TLV3404IDR	296-10710-2-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	3825.00/2,500		
TLV3491AID	296-14052-5-ND	Single Nanopower Push-Pull Output Comparator	8-SOIC	1.55	1.25	1.13
TLV3491AIDBVT	296-14053-1-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	1.76	1.39	1.25
TLV3491AIDBVT	296-14053-2-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	248.25/250		
TLV3492AID	296-14054-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	2.36	1.90	1.71
TLV3494AID	296-14056-5-ND	Quad Nanopower Push-Pull Output Comparator	14-SOIC	3.89	3.13	2.85
TLV3494AIPWT	296-14057-1-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	3.90	3.19	2.86
TLV3494AIPWT	296-14057-2-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	601.25/250		
TLV3702QDRG4Q1	296-24434-1-ND	Dual Nanopower Push-Pull Output Comparator* ***NEW!***	8-SOIC	3.33	2.57	2.33
TLV3702QDRG4Q1	296-24434-2-ND	Dual Nanopower Push-Pull Output Comparator* ***NEW!***	8-SOIC	3207.50/2,500		
TLV4110ID	296-10712-5-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	3.22	2.59	2.36
TLV4110IDGNR	296-10713-1-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	3.00	2.45	2.20
TLV4110IDGNR	296-10713-2-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	3325.00/2,500		
TLV4110IP	296-15719-5-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-Dip	2.80	2.25	2.05
TLV4111IDGNR	296-10714-1-ND	High Out/Low Volt. Single R/R Op Amp	8-MSOP	3.15	2.43	2.21
TLV4111IDR	296-10715-1-ND	High Out/Low Volt. Single R/R Op Amp	8-SOIC	3.15	2.43	2.21
TLV4112CD	296-2447-5-ND	Dual High-Drive Op Amp	8-SOIC	2.67	2.15	1.94
TLV4112CP	296-10716-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.67	2.15	1.94
TLV4112ID	296-10717-5-ND	High-Out-Drive Dual R/R Op Amp	8-SOIC	2.94	2.37	2.16
TLV4112IDGNR	296-10718-1-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	3.15	2.43	2.21
TLV4112IDGNR	296-10718-2-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	3037.50/2,500		
TLV4112IP	296-10719-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.79	2.25	2.03
TLV4113ID	296-10720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-SOIC	2.95	2.38	2.14
TLV4113IDGQR	296-10721-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HMSOP	3.33	2.57	2.33
TLV4113IDGQR	296-10721-2-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HMSOP	3207.50/2,500		
TLV4113IN	296-15720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-Dip	2.95	2.38	2.14
TLV4113MDGQREP	296-22431-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-MSOP	6.76	5.61	5.10
TLV4120IDGNR	296-10722-1-ND	High-Out-Drive Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	4.80	3.92	3.52
TPA005D12DCA	296-2448-5-ND	2W Stereo Power Amp	48-TSSOP	13.20	11.10	10.20
TPA005D14DCA	296-2449-5-ND	2W Stereo Power Amp, Upgrade for TPA005D04DCA	48-TSSOP	14.63	12.31	11.31
TPA032D01DCA	296-2461-5-ND	10W Monaural Power Amp	48-HTSSOP	20.06	17.06	15.80
TPA032D02DCA	296-2462-5-ND	10W Class-D Stereo Audio Power Amp	48-HTSSOP	22.10	18.79	17.41

* *RoHS Compliant*

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TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA032D03DCA	296-2463-5-ND	10W Monaural Power Amp	48-HTSSOP	18.92	15.91	14.62
TPA032D04DCA	296-2464-5-ND	10W Stereo Power Amplifier	48-HTSSOP	20.79	17.49	16.07
TPA102DGN	296-1941-5-ND	0.7W Stereo Audio Power Amp	8-MSOP	2.20	1.78	1.60
TPA112D	296-2465-5-ND	0.07W Stereo Audio Power Amp	8-SOIC	1.40	1.12	.98
TPA112DGN	296-1942-5-ND	0.07W Stereo Audio Power Amp	8-MSOP	1.61	1.30	1.17
TPA112DGNR	296-1942-1-ND	0.07W Stereo Audio Power Amp	8-MSOP	1.63	1.29	1.16
TPA122D	296-2466-5-ND	0.07W Stereo Audio Power Amp	8-SOIC	1.52	1.22	1.07
TPA122DGN	296-1943-5-ND	0.07W Stereo Audio Power Amp	8-MSOP	1.77	1.43	1.29
TPA122MSOPEVM	296-10824-ND	Evaluation Module for TPA122	—	50.00	—	—
TPA152D	296-1944-5-ND	0.075W Single-Ended Audio Pwr. Amp	8-SOIC	2.48	2.00	1.80
TPA301D	296-1945-5-ND	0.7W Mono Audio Power Amp	8-SOIC	1.20	.96	.84
TPA301DGN	296-1946-5-ND	0.7W Mono Audio Power Amp	8-MSOP	1.53	1.23	1.08
TPA301EVM	296-10834-ND	Evaluation Module for TPA301	—	50.00	—	—
TPA302D	296-7011-5-ND	0.3W Stereo Audio Power Amp	8-SOIC	4.48	3.60	3.28
TPA311D	296-1947-5-ND	0.7W Mono Audio Power Amp	8-SOIC	1.20	.96	.84
TPA311DGN	296-1948-5-ND	0.7W Mono Audio Power Amp	8-MSOP	1.53	1.23	1.08
TPA311EVM	296-10836-ND	Evaluation Module for TPA311	—	50.00	—	—
TPA321D	296-7012-5-ND	0.7W Low Voltage Audio Power Amp with Differential Inputs	8-SOIC	1.20	.96	.84
TPA321DGN	296-12563-5-ND	0.7W Low Voltage Audio Power Amp with Differential Inputs	8-MSOP	1.53	1.23	1.08
TPA321EVM	296-12306-ND	Evaluation Module for TPA321	—	50.00	—	—
TPA701D	296-1949-5-ND	0.7W Low Voltage Audio Power Amp	8-SOIC	1.40	1.12	.98
TPA701DGN	296-7022-5-ND	0.7W Low Voltage Audio Power Amp	8-MSOP	1.61	1.30	1.17
TPA711D	296-1950-5-ND	0.7W Low Voltage Audio Power Amp	8-SOIC	1.40	1.12	.98
TPA711DGNR	296-7023-1-ND	0.7W Low Voltage Audio Power Amp	8-MSOP	1.63	1.29	1.16
TPA711DGNR	296-7023-2-ND	0.7W Low Voltage Audio Power Amp	8-MSOP	1497.50/2,500		
TPA711MSOPEVM	296-10851-ND	Eval. Module for TPA711MSOP	—	50.00	—	—
TPA721D	296-1951-5-ND	0.7W Low Voltage Audio Power Amp	8-SOIC	1.40	1.12	.98
TPA721DR	296-1951-1-ND	0.7W Low Voltage Audio Power Amp	8-SOIC	1.27	1.00	.90
TPA721MSOPEVM	296-10852-ND	Eval. Module for TPA721MSOP	—	50.00	—	—
TPA731D	296-7025-5-ND	0.7W Low Voltage Audio Power Amp with Differential Inputs	8-SOIC	1.40	1.12	.98
TPA731EVM	296-10853-ND	Evaluation Module for TPA731	—	50.00	—	—
TPA741D	296-7027-5-ND	0.7W Low Voltage Audio Power Amp with Differential Inputs	8-SOIC	1.71	1.38	1.24
TPA741EVM	296-10854-ND	Evaluation Module for TPA741	—	50.00	—	—
TPA751D	296-10855-5-ND	0.7W Low Voltage Audio Power Amp	8-SOIC	1.40	1.12	.98
TPA751EVM	296-13570-ND	Evaluation Module for TPA751	—	50.00	—	—
TPA0102EVM	296-10797-ND	Evaluation Module for TPA0102	—	50.00	—	—
TPA0102PWP	296-1938-5-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	4.20	3.38	3.08
TPA0102PWPR	296-1938-1-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	3.75	3.07	2.75
TPA0103EVM	296-10798-ND	Evaluation Module for TPA0103	—	50.00	—	—
TPA0103PWP	296-1939-5-ND	2.1W 3-Ch. Stereo Audio Power Amp	24-HTSSOP	4.20	3.38	3.08
TPA0103PWPR	296-1939-1-ND	2.1W 3-Ch. Stereo Audio Power Amp	24-HTSSOP	3.75	3.07	2.75
TPA0112EVM	296-10799-ND	Evaluation Module for TPA0112	—	50.00	—	—
TPA0112PWP	296-2450-5-ND	2.6W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	4.48	3.60	3.28
TPA0112PWPR	296-2450-1-ND	2.6W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	4.05	3.31	2.97
TPA0122EVM	296-10800-ND	Evaluation Module for TPA0122	—	50.00	—	—
TPA0122PWP	296-2451-5-ND	2.6W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	4.48	3.60	3.28
TPA0122PWPR	296-2451-1-ND	2.6W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	4.05	3.31	2.97
TPA0132EVM	296-10801-ND	Evaluation Module for TPA0132	—	50.00	—	—
TPA0132PWP	296-2452-5-ND	2.8W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	6.72	5.40	4.92
TPA0142EVM	296-10802-ND	Evaluation Module for TPA0142	—	50.00	—	—
TPA0142PWP	296-2453-5-ND	2.8W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	6.72	5.40	4.92
TPA0152EVM	296-10803-ND	Evaluation Module for TPA0152	—	50.00	—	—
TPA0152PWP	296-2454-5-ND	2.8W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	6.02	4.84	4.41
TPA0152PWPR	296-2454-1-ND	2.8W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	5.40	4.41	3.96
TPA0162EVM	296-10804-ND	Evaluation Module for TPA0162	—	50.00	—	—
TPA0162PWP	296-2455-5-ND	2.8W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	6.63	5.44	4.91
TPA0172EVM	296-10805-ND	Evaluation Module for TPA0172	—	50.00	—	—
TPA0172PWP	296-7000-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	7.38	6.05	5.46
TPA0202PWP	296-1940-5-ND	2.2W Stereo Audio Power Amp	24-HTSSOP	4.79	3.85	3.51
TPA0211DGN	296-2456-5-ND	2W Mono Audio Power Amp	8-TSSOP	2.64	2.13	1.92
TPA0211DGNR	296-2456-1-ND	2W Mono Audio Power Amp	8-MSOP	2.45	1.89	1.72
TPA0211DGNR	296-2456-2-ND	2W Mono Audio Power Amp	8-MSOP	2362.50/2,500		
TPA0211EVM	296-10807-ND	Evaluation Module for TPA0211	—	50.00	—	—
TPA0212EVM	296-10808-ND	Evaluation Module for TPA0212	—	50.00	—	—
TPA0212PWP	296-2457-5-ND	2.6W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	3.64	2.93	2.67
TPA0213EVM	296-10809-ND	Evaluation Module for TPA0213	—	50.00	—	—
TPA0222EVM	296-10810-ND	Evaluation Module for TPA0222	—	50.00	—	—
TPA0223EVM	296-10811-ND	Evaluation Module for TPA0223	—	50.00	—	—
TPA0232EVM	296-10812-ND	Evaluation Module for TPA0232	—	50.00	—	—
TPA0232PWP	296-2459-5-ND	2.8W Stereo Power Amplifier	24-HTSSOP	6.50	5.33	4.81
TPA0233DGQR	296-7003-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3.45	2.82	2.53
TPA0233EVM	296-10813-ND	Evaluation Module for TPA0233	—	50.00	—	—
TPA0242EVM	296-10814-ND	Evaluation Module for TPA0242	—	50.00	—	—
TPA0242PWP	296-2460-5-ND	2.8W Stereo Power Amplifier	24-HTSSOP	6.72	5.40	4.92
TPA0243EVM	296-10815-ND	Evaluation Module for TPA0243	—	50.00	—	—
TPA0252EVM	296-13567-ND	Evaluation Module for TPA0252	—	50.00	—	—
TPA0252PWP	296-7005-5-ND	2W Stereo Audio Power Amp with Digital Volume Control/Memory	24-HTSSOP	6.63	5.44	4.91
TPA0253EVM	296-10816-ND	Evaluation Module for TPA0253	—	50.00	—	—
TPA0312PWP	296-10817-5-ND	2.6W Stereo Power Amplifier	24-HTSSOP	3.64	2.93	2.67
TPA1517DWP	296-7007-5-ND	6W Stereo Audio Power Amp	20-SOIC	2.85	2.30	2.07
TPA1517DWPR	296-7007-1-ND	6W Stereo Audio Power Amp	20-SOIC	2.80	2.16	1.96
TPA1517DWPR	296-7007-2-ND	6W Stereo Audio Power Amp	20-SOIC	2160.00/2,000		
TPA1517NE	296-7008-5-ND	6W Stereo Audio Power Amp	20-PDip	2.48	2.00	1.80
TPA1517NEEVM	296-10826-ND	Evaluation Module for TPA1517NE	—	50.00	—	—
TPA2000D1GQCR	296-15638-1-ND	2W Class-D Filterless Mono Audio Power Amp	48-BGA	3.45	2.82	2.53
TPA2000D1PW	296-7009-5-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	3.50	2.82	2.57
TPA2000D1TPWRG4Q1	296-24318-1-ND	2W Class-D Filterless Mono Audio Power Amp* ***NEW!***	16-TSSOP	4.35	3.56	3.19
TPA2000D1TPWRG4Q1	296-24318-2-ND	2W Class-D Filterless Mono Audio Power Amp* ***NEW!***	16-TSSOP	3858.00/2,000		
TPA2000D2EVM	296-10829-ND	Evaluation Module for TPA2000D2	—	50.00	—	—
TPA2000D2PWP	296-2467-5-ND	2W Filterless Class-D Audio Pwr. Amp	24-HTSSOP	4.76	3.83	3.49
TPA2000D2PWR	296-13382-1-ND	2W Filterless Class-D Audio Pwr. Amp	24-TSSOP	4.35	3.56	3.19
TPA2000D2PWR	296-13382-2-ND	2W Filterless Class-D Audio Pwr. Amp	24-TSSOP	3858.00/2,000		
TPA2000D4DAP	296-10830-5-ND	2W Filterless Class-D Audio Pwr. Amp	32-HTSSOP	6.25	5.13	4.63
TPA2000D4EVM	296-10831-ND	Evaluation Module for TPA2000D4	—	50.00	—	—
TPA2001D1EVM	296-10832-ND	Eval. Module for TPA2001D1* ***NEW!***	—	50.00	—	—
TPA2001D1PW	296-7010-5-ND	1W Class-D Filterless Mono Audio Power Amp	16-TSSOP	2.95	2.38	2.14
TPA2001D2EVM	296-10833-ND	Evaluation Module for TPA2001D2	—	50.00	—	—
TPA2001D2PWP	296-2468-5-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	5.04	4.05	3.69
TPA2001D2PWPR	296-2468-1-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	4.50	3.68	3.30
TPA2001D2PWPR	296-2468-2-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	3990.00/2,000		
TPA2005D1DGN	296-17691-5-ND	1.45W Class-D Audio Power Amp	8-MSOP	1.56	1.25	1.10
TPA2005D1DGNR	296-26876-1-ND	1.4W Mono Filter Free Class-D Audio Power Amp* ***NEW!***	8-MSOP	1.41	1.12	1.01
TPA2005D1DGNR	296-26876-2-ND	1.4W Mono Filter Free Class-D Audio Power Amp* ***NEW!***	8-MSOP	1297.50/2,500		
TPA2005D1DGNRQ1	296-24831-1-ND	1.4W Class-D Audio Pwr. Amp* ***NEW!***	8-MSOP	1.79	1.42	1.28
TPA2005D1DGNRQ1	296-24831-2-ND	1.4W Class-D Audio Pwr. Amp* ***NEW!***	8-MSOP	1647.50/2,500		
TPA2005D1DRBR	296-15131-1-ND	1.45W Class-D Audio Power Amp	8-SON	1.41	1.12	1.01
TPA2005D1DRBR	296-15131-2-ND	1.45W Class-D Audio Power Amp	8-SON	1557.00/3,000		
TPA2005D1EVM	296-20582-ND	Evaluation Module for TPA2005D1	—	50.00	—	—
TPA2005D1GQYR	296-15073-1-ND	1.45W Mono Filter Free Class-D Audio Power Amp	15-BGA	1.41	1.12	1.01
TPA2005D1ZQYR	296-18921-1-ND	1.45W Mono Filter Free Class-D Audio Power Amp	15-BGA	1.41	1.12	1.01
TPA2005D1ZQYR	296-18921-2-ND	1.45W Mono Filter Free Class-D Audio Power Amp	15-BGA	1297.50/2,500		
TPA2006D1DRBR	296-20783-1-ND	1.45W Mono Filter Free Class-D Audio Power Amp	8-SON	1.25	.99	.89
TPA2006D1DRBR	296-20783-2-ND	1.45W Mono Filter Free Class-D Audio Power Amp	8-SON	1377.00/3,000		
TPA2006D1DRBT	296-26877-1-ND	1.45W Mono Filter Free Class-D Audio Power Amp* ***NEW!***	8-SON	1.43	1.14	1.02
TPA2006D1DRBT	296-26877-2-ND	1.45W Mono Filter Free Class-D Audio Power Amp* ***NEW!***	8-SON	202.75/250		
TPA2008D2EVM	296-18922-ND	Evaluation Module for TPA2008D2	—	50.00	—	—
TPA2008D2PWP	296-15339-5-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-HTSSOP	5.85	4.71	4.29
TPA2010D1EVM	296-18923-ND	Evaluation Module for TPA2010D1	—	50.00	—	—
TPA2010D1YZFT	296-16659-1-ND	2.5W Audio Power Amp	9-DSBGA	1.43	1.14	1.02
TPA2010D1YZFT	296-16659-2-ND	2.5W Audio Power Amp	9-DSBGA	202.75/250		
TPA2011D1YFFR	296-25556-1-ND	3.2W Audio Power Amp* ***NEW!***	9-DSBGA	2.28	1.76	1.60
TPA2011D1YFFR	296-25556-2-ND	3.2W Audio Power Amp* ***NEW!***	9-DSBGA	2634.00/3,000		
TPA2012D2RTJR	296-17692-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-WQFN	2.35	1.81	1.65
TPA2012D2RTJR	296-17692-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-WQFN	2715.00/3,000		
TPA2012D2RTJT	296-26878-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp* ***NEW!***	20-WQFN	2.84	2.19	1.99
TPA2012D2RTJT	296-26878-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp* ***NEW!***	20-WQFN	405.00/250		
TPA2013D1RGPR	296-22849-1-ND	2.7W Constant Output Power Class-D Audio Amp	20-VQFN	3.15	2.58	2.31
TPA2013D1RGPR	296-22849-2-ND	2.7W Constant Output Power Class-D Audio Amp	20-VQFN	4191.00/3,000		
TPA2016D2RTJR	296-25430-1-ND	2.8W Class D Audio Power Amp* ***NEW!***	20-QFN	3.90	3.19	2.86
TPA2016D2RTJR	296-25430-2-ND	2.8W Class D Audio Power Amp* ***NEW!***	20-QFN	5187.00/3,000		
TPA2016D2YZHT	296-23616-1-ND	1.72W/Ch Stereo Class-D Audio Power Amp	16-DSBGA	4.50	3.68	3.30
TPA2016D2YZHT	296-23616-2-ND	1.72W/Ch Stereo Class-D Audio Power Amp	16-DSBGA	693.75/250		
TPA2017D2RTJR	296-24368-1-ND	2.8W/Ch Stereo Class-D Audio Power Amp* ***NEW!***	20-QFN	4.20	3.43	3.08
TPA2017D2RTJR	296-24368-2-ND	2.8W/Ch Stereo Class-D Audio Power Amp* ***NEW!***	20-QFN	5586.00/3,000		
TPA2017D2RTJT	296-24395-1-ND	2.8W/Ch Stereo Class-D Audio Power Amp* ***NEW!***	20-QFN	4.95	4.05	3.63
TPA2017D2RTJT	296-24395-2-ND	2.8W/Ch Stereo Class-D Audio Power Amp* ***NEW!***	20-QFN	763.25/250		
TPA2018D1YZFR	296-25132-1-ND	3W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	3.15	2.43	2.21
TPA2018D1YZFR	296-25132-2-ND	3W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	3645.00/3,000		
TPA2028D1YZFEVM	296-25825-ND	Eval. Module for TPA2028D1* ***NEW!***	—	101.00	—	—
TPA2028D1YZFR	296-25790-1-ND	3W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	3.15	2.43	2.21
TPA2028D1YZFR	296-25790-2-ND	3W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	3645.00/3,000		
TPA2031D1YZFR	296-24769-1-ND	2.5W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	1.33	1.05	.95
TPA2031D1YZFR	296-24769-2-ND	2.5W Mono Class-D Audio Power Amp* ***NEW!***	9-DSBGA	1470.00/3,000		
TPA2033D1YZFR	296-20660-1-ND	2.75W Fixed Gain Mono Audio Power Amp	9-DSBGA	1.71	1.35	1.22
TPA2034D1YZFR	296-20661-1-ND	2.75W Fixed Gain Mono Audio Power Amp	9-DSBGA	1.71	1.35	1.22
TPA2034D1YZFR	296-20661-2-ND	2.75W Fixed Gain Mono Audio Power Amp	9-DSBGA	1890.00/3,000		
TPA2036D1YZFR	296-23917-1-ND	2.5W Mono Class-D Audio Amp	9-DSBGA	1.33	1.05	.95
TPA2037D1YFFR	296-25337-1-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	2.28	1.76	1.60

* RoHS Compliant

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPA2037D1YFFR	296-25337-2-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	2634.00/3,000		
TPA2037D1YFFT	296-25343-1-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	2.63	2.03	1.84
TPA2037D1YFFT	296-25343-2-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	375.00/250		
TPA2039D1YFFR	296-25571-1-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	2.28	1.76	1.60
TPA2039D1YFFR	296-25571-2-ND	3.2W Mono Class-D Audio Amp* ***NEW!***	9-DSBGA	2634.00/3,000		
TPA2051D3YFFR	296-24832-1-ND	2.9W/Ch. Mono Class-D Audio Subsystem* ***NEW!***	25-DSBGA	2.63	2.03	1.84
TPA2051D3YFFR	296-24832-2-ND	2.9W/Ch. Mono Class-D Audio Subsystem* ***NEW!***	25-DSBGA	3037.50/3,000		
TPA2054D4YZKR	296-24453-1-ND	1.4W/Ch. Stereo Class-D Audio Subsystem* ***NEW!***	25-DSBGA	3.90	3.19	2.86
TPA2054D4YZKR	296-24453-2-ND	1.4W/Ch. Stereo Class-D Audio Subsystem* ***NEW!***	25-DSBGA	5187.00/3,000		
TPA2054D4YZKT	296-24516-1-ND	1.4W/Ch. Stereo Class-D Audio Subsystem* ***NEW!***	25-DSBGA	.70	.49	.42
TPA2054D4YZKT	296-24516-2-ND	1.4W/Ch. Stereo Class-D Audio Subsystem* ***NEW!***	25-DSBGA	693.75/250		
TPA3001D1PWPR	296-14200-1-ND	20W Mono Class-D Audio Amp	24-HTSSOP	7.16	5.94	5.40
TPA3001D1PWPR	296-14200-2-ND	20W Mono Class-D Audio Amp	24-HTSSOP	7020.00/2,000		
TPA3002D2EVM	296-20583-ND	Evaluation Module for TPA3002D2	—	50.00	—	—
TPA3002D2PHPR	296-14201-1-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	8.75	7.26	6.60
TPA3002D2PHPR	296-14201-2-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	4455.00/1,000		
TPA3003D2PFB	296-15037-ND	3.75W Class-D Audio Amp with DC Volume Control	48-TQFP	9.00	7.38	6.66
TPA3004D2PHPR	296-15038-1-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	8.61	7.15	6.50
TPA3004D2PHPR	296-15038-2-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	4388.00/1,000		
TPA3005D2EVM	296-18924-ND	Evaluation Module for TPA3005D2	—	50.00	—	—
TPA3005D2PHPR	296-17058-1-ND	6W Class-D Stereo Audio Power Amp	48-HTQFP	7.82	6.49	5.90
TPA3007D1EVM	296-18925-ND	Evaluation Module for TPA3007D1	—	50.00	—	—
TPA3007D1PW	296-15792-5-ND	6.5W Audio Power Amp	24-TSSOP	6.58	5.29	4.82
TPA3007D1PWR	296-26880-1-ND	6.5W Mono Class-D Audio Power Amp* ***NEW!***	24-TSSOP	5.85	4.78	4.29
TPA3007D1PWR	296-26880-2-ND	6.5W Mono Class-D Audio Power Amp* ***NEW!***	24-TSSOP	5188.00/2,000		
TPA3008D2EVM	296-18926-ND	Evaluation Module for TPA3008D2	—	50.00	—	—
TPA3008D2PHP	296-17210-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	9.38	7.69	6.94
TPA3100D2EVM	296-21138-ND	Evaluation Module for TPA3100D2	—	152.00	—	—
TPA3100D2PHPR	296-19603-1-ND	21.8W Stereo Class-D Audio Pwr. Amp	48-HTQFP	9.28	7.70	7.00
TPA3100D2PHPR	296-19603-2-ND	21.8W Stereo Class-D Audio Pwr. Amp	48-HTQFP	4725.00/1,000		
TPA3100D2RGZR	296-19423-1-ND	21.8W Stereo Class-D Audio Pwr. Amp	48-VQFN	9.28	7.70	7.00
TPA3101D2EVM	296-21139-ND	Evaluation Module for TPA3101D2	—	152.00	—	—
TPA3101D2PHP	296-19554-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	9.38	7.69	6.94
TPA3106D1VFP	296-26884-ND	40W Mono Class-D Audio Power Amp* ***NEW!***	32-LQFP	6.75	5.54	5.00
TPA3106D1VFPR	296-22976-1-ND	40W Mono Class-D Audio Power Amp	32-HLQFP	6.75	5.52	4.95
TPA3110D2PWP	296-24968-5-ND	15W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	4.90	3.94	3.59
TPA3110D2PWPR	296-24926-1-ND	15W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	4.35	3.56	3.19
TPA3110D2PWPR	296-24926-2-ND	15W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	3858.00/2,000		
TPA3111D1PWP	296-25128-5-ND	10W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	3.08	2.48	2.26
TPA3111D1PWPR	296-25121-1-ND	10W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	3.15	2.43	2.21
TPA3111D1PWPR	296-25121-2-ND	10W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	2430.00/2,000		
TPA3112D1PWP	296-25242-5-ND	25W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	3.92	3.15	2.87
TPA3112D1PWPR	296-25158-1-ND	25W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	4.03	3.11	2.82
TPA3112D1PWPR	296-25158-2-ND	25W Mono Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	3060.00/2,000		
TPA3113D2PWP	296-25127-5-ND	6W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	2.94	2.37	2.16
TPA3113D2PWPR	296-25122-1-ND	6W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	2.98	2.30	2.09
TPA3113D2PWPR	296-25122-2-ND	6W Stereo Class-D Audio Power Amp* ***NEW!***	28-HTSSOP	2295.00/2,000		
TPA3120D2PWP	296-21673-5-ND	25W Stereo Class-D Audio Power Amp	24-HTSSOP	9.63	7.90	7.13
TPA3121D2PWPR	296-23477-1-ND	15W Stereo Class-D Audio Power Amp	24-HTSSOP	4.35	3.56	3.19
TPA3121D2PWPR	296-23477-2-ND	15W Stereo Class-D Audio Power Amp	24-HTSSOP	3858.00/2,000		
TPA3122D2N	296-23375-5-ND	15W Stereo Class-D Audio Power Amp	20-Dip	3.07	2.48	2.23
TPA3123D2PWPR	296-22008-1-ND	25W Stereo Class-D Audio Power Amp	24-HTSSOP	5.25	4.29	3.85
TPA3123D2PWPR	296-22008-2-ND	25W Stereo Class-D Audio Power Amp	24-HTSSOP	4656.00/2,000		
TPA3125D2N	296-24090-5-ND	10W Stereo Class-D Audio Power Amp	20-DIP	2.64	2.13	1.92
TPA3200D1DCP	296-18302-5-ND	20W Mono Digital Input Audio Amp	44-HTSSOP	11.13	9.13	8.24
TPA4411EVM	296-17385-ND	Evaluation Module for TPA4411	—	50.00	—	—
TPA4411MRTJR	296-26885-1-ND	80mW DIRECTPATH™ Stereo Headphone Driver* ***NEW!***	20-WQFN	2.49	1.92	1.74
TPA4411MRTJR	296-26885-2-ND	80mW DIRECTPATH™ Stereo Headphone Driver* ***NEW!***	20-WQFN	2877.00/3,000		
TPA4411RTJT	296-17312-1-ND	0.1W Capless Stereo Headphone Dvr.	20-WQFN	3.08	2.38	2.16
TPA4860D	296-7013-5-ND	1.1W Mono Audio Power Amp	16-SOIC	2.08	1.68	1.51
TPA4861D	296-7014-5-ND	1.1W Mono Audio Power Amp	8-SOIC	2.08	1.68	1.51
TPA4861DR	296-7014-1-ND	1.1W Mono Audio Power Amp	8-SOIC	1.93	1.49	1.35
TPA4861DR	296-7014-2-ND	1.1W Mono Audio Power Amp	8-SOIC	1857.50/2,500		
TPA4860EVM	296-10838-ND	Evaluation Module for TPA4860	—	50.00	—	—
TPA5050RSAR	296-19884-1-ND	Stereo Digital Audio Lip-Sync Delay	16-VQFN	8.48	7.04	6.40
TPA5050RSAR	296-19884-2-ND	Stereo Digital Audio Lip-Sync Delay	16-VQFN	12480.00/3,000		
TPA5051RSAR	296-20711-1-ND	4-Ch. Digital Audio Lip-Sync Delay	16-VQFN	8.48	7.04	6.40
TPA5052RSAR	296-20712-1-ND	Stereo Digital Audio Lip-Sync Delay	16-VQFN	7.82	6.49	5.90
TPA6010A4EVM	296-10840-ND	Evaluation Module for TPA6010A4	—	50.00	—	—

TEXAS INSTRUMENTS DigiReel® (Cont.) AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPA6010A4PWPR	296-7015-1-ND	2.7W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	6.75	5.52	4.95
TPA6010A4PWPR	296-7015-2-ND	2.7W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5985.00/2,000		
TPA6011A4EVM	296-13568-ND	Evaluation Module for TPA6011A4	—	50.00	—	—
TPA6011A4PWP	296-16919-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.86	3.11	2.83
TPA6011A4PWPR	296-12678-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.42	2.80	2.51
TPA6011A4PWPR	296-12678-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	3032.40/2,000		
TPA6012A4PWPR	296-25462-1-ND	3W Stereo Audio Power Amp* ***NEW!***	24-HTSSOP	3.60	2.94	2.64
TPA6012A4PWPR	296-25462-2-ND	3W Stereo Audio Power Amp* ***NEW!***	24-HTSSOP	3192.00/2,000		
TPA6013A4PWPR	296-25463-1-ND	3W Stereo Audio Power Amp* ***NEW!***	24-HTSSOP	3.72	3.04	2.73
TPA6013A4PWPR	296-25463-2-ND	3W Stereo Audio Power Amp* ***NEW!***	24-HTSSOP	3298.00/2,000		
TPA6017A2EVM	296-20586-ND	Evaluation Module for TPA6017A2	—	50.00	—	—
TPA6017A2PWPR	296-12506-1-ND	2W Stereo Audio Power Amp	20-HTSSOP	1.76	1.39	1.25
TPA6020A2EVM	296-21141-ND	Evaluation Module for TPA6020A2	—	50.00	—	—
TPA6021A4EVM	296-21142-ND	Evaluation Module for TPA6021A4	—	50.00	—	—
TPA6021A4N	296-18249-5-ND	2W Stereo Audio Power Amp	20-Dip	2.85	2.30	2.07
TPA6030A4EVM	296-20587-ND	Evaluation Module for TPA6030A4	—	50.00	—	—
TPA6030A4PWP	296-13866-5-ND	5W Stereo Audio Power Amp	28-HTSSOP	4.76	3.83	3.49
TPA6047A4RHBR	296-23843-1-ND	2W Stereo Audio Power Amp	32-QFN	3.47	2.68	2.43
TPA6100A2DR	296-7017-1-ND	0.05W Ultra-LV Audio Power Amp	8-SOIC	1.33	1.05	.95
TPA6100A2DR	296-7017-2-ND	0.05W Ultra-LV Audio Power Amp	8-SOIC	1225.00/2,500		
TPA6100A2EVM	296-10841-ND	Evaluation Module for TPA6100A2	—	50.00	—	—
TPA6101A2D	296-7018-5-ND	0.05W Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	8-SOIC	1.47	1.18	1.03
TPA6101A2EVM	296-10842-ND	Evaluation Module for TPA6101A2	—	50.00	—	—
TPA6102A2D	296-7020-5-ND	0.05W Ultra-LV Audio Power Amp	8-SOIC	1.68	1.35	1.18
TPA6102A2EVM	296-11637-ND	Evaluation Module for TPA6102A2	—	50.00	—	—
TPA6110A2DGN	296-10843-5-ND	0.15W Stereo Power Amp	8-MSOP	1.25	1.00	.88
TPA6110A2EVM	296-10844-ND	Evaluation Module for TPA6110A2	—	50.00	—	—
TPA6111A2DGN	296-10845-5-ND	0.15W Stereo Power Amp	8-MSOP	1.46	1.17	1.03
TPA6111A2DR	296-10846-1-ND	0.15W Stereo Power Amp	8-SOIC	1.05	.84	.75
TPA6111A2DR	296-10846-2-ND	0.15W Stereo Power Amp	8-SOIC	970.00/2,500		
TPA6111A2EVM	296-10847-ND	Evaluation Module for TPA6111A2	—	50.00	—	—
TPA6112A2DGQR	296-10848-1-ND	0.15W Stereo Power Amp	10-HMSOP	1.57	1.24	1.12
TPA6112A2DGQR	296-10848-2-ND	0.15W Stereo Power Amp	10-HMSOP	1442.50/2,500		
TPA6112A2EVM	296-10849-ND	Evaluation Module for TPA6112A2	—	50.00	—	—
TPA6120A2DWP	296-16920-5-ND	High Fidelity Headphone Amp	20-HSOIC	6.44	5.18	4.72
TPA6120A2EVM	296-18927-ND	Evaluation Module for TPA6120A2	—	101.00	—	—
TPA6130A2RTJR	296-21656-1-ND	0.29W DirectPath Stereo Headphone Amplifier	20-WQFN	2.80	2.16	1.96
TPA6130A2RTJR	296-21656-2-ND	0.29W DirectPath™ Stereo Headphone Amplifier	20-WQFN	3240.00/3,000		
TPA6132A2RTER	296-24053-1-ND	25mW DirectPath™ Stereo Headphone Amplifier	16-TQFN	1.93	1.49	1.35
TPA6135A2RTER	296-24218-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-WQFN	2.10	1.62	1.47
TPA6135A2RTER	296-24218-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-WQFN	2430.00/3,000		
TPA6136A2YFFR	296-24962-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	2.45	1.89	1.72
TPA6136A2YFFR	296-24962-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	2835.00/3,000		
TPA6136A2YFFT	296-25125-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-BGA	2.98	2.30	2.09
TPA6136A2YFFT	296-25125-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-BGA	425.00/250		
TPA6140A2YFFEVM	296-24299-ND	Eval. Module for TPA6140A2 ***NEW!***	—	50.00	—	—
TPA6140A2YFFR	296-24237-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	3.33	2.57	2.33
TPA6140A2YFFR	296-24237-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	3847.50/3,000		
TPA6140A2YFFT	296-24303-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	3.30	2.70	2.42
TPA6140A2YFFT	296-24303-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	508.75/250		
TPA6141A2YFFR	296-25168-1-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	2.98	2.30	2.09
TPA6141A2YFFR	296-25168-2-ND	25mW DirectPath™ Stereo Headphone Amplifier* ***NEW!***	16-DSBGA	3442.50/3,000		
TPA6203A1DGNR	296-19604-1-ND	1.25W Mono Diff. Audio Power Amp	8-MSOP	1.07	.83	.73
TPA6203A1DGNR	296-19604-2-ND	1.25W Mono Diff. Audio Power Amp	8-MSOP	880.00/2,500		
TPA6203A1DRBR	296-19790-1-ND	1.25W Mono Diff. Audio Power Amp	8-SON	1.07	.83	.73
TPA6203A1EVM	296-13569-ND	Evaluation Module for TPA6203A1	—	50.00	—	—
TPA6203A1ZQVR	296-17902-1-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	1.07	.83	.73
TPA6203A1ZQVR	296-17902-2-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	880.00/2,500		
TPA6204A1DRBR	296-17059-1-ND	1.7W Diff. Audio Power Amp	8-SON	1.12	.89	.80
TPA6204A1DRBR	296-17059-2-ND	1.7W Diff. Audio Power Amp	8-SON	1234.80/3,000		
TPA6204A1EVM	296-18928-ND	Evaluation Module for TPA6204A1	—	50.00	—	—
TPA6205A1DGNR	296-21262-1-ND	1.25W Mono Fully Diff. Audio Pwr Amp	8-MSOP	1.16	.92	.83
TPA6205A1DGNR	296-21262-2-ND	1.25W Mono Fully Diff. Audio Pwr Amp	8-MSOP	1064.00/2,500		
TPA6205A1DRBT	296-20784-1-ND	1.25W Mono Fully Diff. Audio Pwr Amp	8-SON	1.33	1.05	.95
TPA6205A1DRBT	296-20784-2-ND	1.25W Mono Fully Diff. Audio Pwr Amp	8-SON	188.25/250		
TPA6211A1DGN	296-15325-5-ND	3.1W Mono Diff. Audio Power Amp	8-MSOP	1.17	.94	.83
TPA6211A1DGNR	296-26889-1-ND	3.1W Mono Diff. Audio Power Amp* ***NEW!***	8-MSOP	1.06	.84	.76
TPA6211A1DGNR	296-26889-2-ND	3.1W Mono Diff. Audio Power Amp* ***NEW!***	8-MSOP	977.50/2,500		
TPA6211A1DRBR	296-17101-1-ND	3.1W Mono Diff. Audio Power Amp	8-SON	1.06	.84	.76
TPA6211A1DRBR	296-17101-2-ND	3.1W Mono Diff. Audio Power Amp	8-SON	1173.00/3,000		
TPA6211A1EVM	296-18929-ND	Evaluation Module for TPA6211A1	—	50.00	—	—
TRF1123IRTMR	296-18253-1-ND	2.1GHz to 2.7GHz, 1W Power Amp	32-VQFN	13.69	11.61	10.71
TRF1223IRTMR	296-18254-1-ND	3.3GHz to 3.8GHz, 1W Power Amp	32-VQFN	11.50	9.75	9.00
TS321IDBVR	296-21173-1-ND	Low Power Single Op Amp	SOT-23-5	.88	.68	.60
TS321IDBVR	296-21173-2-ND	Low Power Single Op Amp	SOT-23-5	870.00/3,000		
TS321IDR	296-21174-1-ND	Low Power Single Op Amp	8-SOIC	.88	.68	.60
TS321IDR	296-21174-2-ND	Low Power Single Op Amp	8-SOIC	725.00/2,500		
UA733CD	296-11825-5-ND	Differential Video Amp* ***NEW!***	14-SOIC	1.22	.98	.86
UA733CN	296-11105-5-ND	Differential Video Amp	14-Dip	1.12	.90	.79
UA741CD	296-11106-5-ND	General Purpose Op Amp	8-SOIC	.51	.38	.33

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.)

AMPLIFIERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UA741CP	296-11107-5-ND	General Purpose Op Amp	8-Dip	.56	.41	.36
UA747CN	296-12963-5-ND	Dual General Purpose Op Amp	14-Dip	1.12	.90	.79
UC3176QP	296-11210-5-ND	Full Bridge Power Amp	28-PLCC	16.72	14.06	12.92
UC3178QP	296-12754-5-ND	Full Bridge Power Amp	28-PLCC	8.88	7.28	6.57
UC3901D	296-11338-5-ND	Isolated Feedback Generator	14-SOIC	6.25	5.13	4.63
UC3901N	296-11339-5-ND	Isolated Feedback Generator	14-Dip	6.25	5.13	4.63
VCA810AID	296-17491-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	19.03	16.01	14.71
VCA810ID	296-17317-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	15.18	12.77	11.73
VCA820ID	296-22871-5-ND	Wideband, Linear in dB VGA	14-SOIC	8.50	6.97	6.29
VCA821ID	296-22989-5-ND	Ultra-Wideband, Linear in dB VGA	14-SOIC	10.50	8.61	7.77
VCA822ID	296-22682-5-ND	Wideband, Linear in V/V VGA	14-SOIC	8.50	6.97	6.29
VCA824ID	296-22898-5-ND	Ultra Wideband, Linear in V/V VGA	14-SOIC	10.50	8.61	7.77
VCA824IDGST	296-22899-1-ND	Ultra Wideband, Linear in V/V VGA	10-MSOP	10.73	8.91	8.10
VCA2611Y/250	296-15778-1-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	22.70	20.43	18.73
VCA2611Y/250	296-15778-2-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	4114.50/250		
VCA2612Y/250	VCA2612YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	27.50	24.75	22.69
VCA2612Y/250	VCA2612YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	4984.50/250		
VCA2613Y/250	VCA2613YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	22.60	20.34	18.65
VCA2613Y/250	VCA2613YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	4096.25/250		
VCA2615EVM	296-21211-ND	Evaluation Module for VCA2615	—	152.00	—	—
VCA2615RGZT	296-19304-1-ND	Dual Low Noise Variable Gain Amp with Preamp	48-VQFN	20.47	17.36	16.02
VCA2616YT	VCA2616YT-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	4114.38/250		
VCA2617EVM	296-21212-ND	Evaluation Module for VCA2617	—	152.00	—	—
VCA2617RHBT	296-18347-1-ND	Dual Variable Gain Amp	32-VQFN	20.13	17.07	15.75
VCA2617RHBT	296-18347-2-ND	Dual Variable Gain Amp	32-VQFN	3390.75/250		
VCA2618YT	296-14062-1-ND	Dual Variable Gain Amp	32-TQFP	21.28	18.04	16.65
VCA2619YT	296-19047-ND	Dual Variable Gain Amp	32-TQFP	20.35	17.12	15.73

TEXAS INSTRUMENTS DigiReel®

AUDIO VOLUME CONTROL

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PGA2310EVM	296-13554-ND	Evaluation Module for PGA2310	—	101.00	—	—
PGA2310PA	296-13113-5-ND	High Perf. Stereo Audio Volume Control	16-Dip	21.89	18.41	16.92
PGA2310UA/1K	296-12255-1-ND	High Perf. Stereo Audio Volume Control	16-SOIC	22.89	19.41	17.91
PGA2310UA/1K	296-12255-2-ND	High Perf. Stereo Audio Volume Control	16-SOIC	13233.50/1,000		
PGA2311P	PGA2311P-ND	5V, High Perf. Stereo Audio Volume Control	16-Dip	9.38	7.69	6.94
PGA2311PA	PGA2311PA-ND	5V, High Perf. Stereo Audio Volume Control	16-Dip	11.18	9.17	8.27
PGA2311U	PGA2311U-ND	5V, High Perf. Stereo Audio Volume Control	16-SOIC	11.28	9.25	8.35
PGA2311UA	PGA2311UA-ND	5V, High Perf. Stereo Audio Volume Control	16-SOIC	11.40	9.59	8.81
PGA2320IDW	296-17962-5-ND	Stereo Audio Volume Control	16-SOIC	21.01	17.67	16.24
PGA4311EVM	296-13555-ND	Evaluation Module for PGA4311	—	101.00	—	—
PGA4311U	PGA4311U-ND	4-Channel Audio Volume Control	28-SOIC	19.69	16.56	15.22
PGA4311UA	PGA4311UA-ND	4-Channel Audio Volume Control	28-SOIC	20.60	17.51	16.23

TEXAS INSTRUMENTS DigiReel®

DIGITAL AUDIO INTERFACE

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DIR9001IPWQ1	296-22152-5-ND	96kHz, 24-Bit Digital Audio Interface Receiver	28-TSSOP	11.63	9.54	8.61
DIR9001PW	296-21389-5-ND	96kHz, 24-Bit Digital Audio Interface Receiver	28-TSSOP	6.58	5.29	4.82
TPA5050RSAT	296-26886-1-ND	Stereo Digital Audio Lip Sync Delay with I^2C Control* ***NEW!***	16-VQFN	9.81	8.14	7.40
TPA5050RSAT	296-26886-2-ND	Stereo Digital Audio Lip Sync Delay with I^2C Control* ***NEW!***	16-VQFN	1572.50/250		

TEXAS INSTRUMENTS DigiReel®

BUS TERMINATION ARRAYS AND NETWORKS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPD2E001DRLR	296-21883-1-ND	Low Cap. 2-Channel ESD Array	SOT-5	.66	.51	.45
TPD2E001DRLR	296-21883-2-ND	Low Cap. 2-Channel ESD Array	SOT-5	872.00/4,000		
TPD2E001DZDR	296-24770-1-ND	Low Cap. 2-Ch. ESD-Prot. Array* ***NEW!***	4-SOP	.82	.64	.56
TPD2E001DZDR	296-24770-2-ND	Low Cap. 2-Ch. ESD-Prot. Array* ***NEW!***	4-SOP	809.10/3,000		
TPD2E007DCKR	296-25281-1-ND	2-Channel ESD-Protection Array* ***NEW!***	SC-70-5	.88	.68	.60
TPD2E007DCKR	296-25281-2-ND	2-Channel ESD-Protection Array* ***NEW!***	SC-70-5	870.00/3,000		
TPD2E007YFMRG4	296-24599-1-ND	2-Channel ESD-Protection Array* ***NEW!***	4-DSLGA	.88	.68	.60
TPD2E007YFMRG4	296-24599-2-ND	2-Channel ESD-Protection Array* ***NEW!***	4-DSLGA	870.00/3,000		
TPD2E009DBZR	296-24657-1-ND	2-Channel ESD-Protection Array* ***NEW!***	SOT-23	.66	.51	.45
TPD2E009DBZR	296-24657-2-ND	2-Channel ESD-Protection Array* ***NEW!***	SOT-23	652.50/3000		
TPD2E009DRTR	296-25410-1-ND	2-Channel ESD-Protection Array* ***NEW!***	SOT-3	.66	.51	.45
TPD2E009DRTR	296-25410-2-ND	2-Channel ESD-Protection Array* ***NEW!***	SOT-3	652.50/3,000		
TPD2EUSB30DRTR	296-25509-1-ND	2-Channel ESD Solution* ***NEW!***	SOT-3	.66	.51	.45
TPD2EUSB30DRTR	296-25509-2-ND	2-Channel ESD Solution* ***NEW!***	SOT-3	654.00/3,000		
TPD2F702YFKR	296-25865-1-ND	2-Ch. EMI Filter with ESD Prot.* ***NEW!***	5-DSBGA	.68	.52	.46
TPD2F702YFKR	296-25865-2-ND	2-Ch. EMI Filter with ESD Prot.* ***NEW!***	5-DSBGA	669.00/3,000		
TPD2S017DBVR	296-25216-1-ND	2-Channel ESD Solution* ***NEW!***	SOT-23-6	.77	.54	.47
TPD2S017DBVR	296-25216-2-ND	2-Channel ESD Solution* ***NEW!***	SOT-23-6	651.00/3,000		
TPD3E001DRLR	296-21885-1-ND	Low Cap. 3-Channel ESD Array	SOT-5	.50	.35	.30
TPD3E001DRLR	296-21885-2-ND	Low Cap. 3-Channel ESD Array	SOT-5	558.00/4,000		
TPD4E001DRLR	296-21887-1-ND	Low Cap. 4-Channel ESD Array	SOT-553-6	.55	.39	.33
TPD4E001DRLR	296-21887-2-ND	Low Cap. 4-Channel ESD Array	SOT-553-6	620.00/4,000		
TPD4E001DRSR	296-22852-1-ND	Low Cap. 4-Channel ESD Array	6-SON	.68	.48	.41
TPD4E002DRL2	296-25866-1-ND	Low-Cap. 4-Channel ESD Array* ***NEW!***	SOT-5	.58	.38	.31
TPD4E002DRL2	296-25866-2-ND	Low-Cap. 4-Channel ESD Array* ***NEW!***	SOT-5	528.00/4,000		
TPD4E002DRLR	296-21694-1-ND	Low Cap. 4-Channel ESD Array	SOT-5	.58	.38	.32
TPD4E002DRLR	296-21694-2-ND	Low Cap. 4-Channel ESD Array	SOT-5	528.00/4,000		
TPD4E004DRYR	296-23618-1-ND	Low Cap. 4-Channel ESD Array	6-SON	.72	.51	.43
TPD4E004DRYR	296-23618-2-ND	Low Cap. 4-Channel ESD Array	6-SON	942.50/5,000		
TPD4F003DQDR	296-25817-1-ND	4-Ch. EMI Filter with ESD Prot.* ***NEW!***	8-WSON	.79	.62	.54
TPD4F003DQDR	296-25817-2-ND	4-Ch. EMI Filter with ESD Prot.* ***NEW!***	8-WSON	783.00/3,000		
TPD4S009DBVR	296-23749-1-ND	4-Ch. ESD Solution for HS Diff. Interface	SOT-23-6	1.11	.88	.80
TPD4S009DBVR	296-23749-2-ND	4-Ch. ESD Solution for HS Diff. Interface	SOT-23-6	1230.60/3,000		
TPD4S009DCKR	296-24471-1-ND	4-Ch. ESD Solution for HS Diff. Interface* ***NEW!***	SC70-6	1.00	.80	.72

TEXAS INSTRUMENTS DigiReel® (Cont.)

BUS TERMINATION ARRAYS AND NETWORKS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPD4S009DCKR	296-24471-2-ND	4-Ch. ESD Solution for HS Diff. Interface* ***NEW!***	SC70-6	1108.80/3,000		
TPD4S009DGSR	296-24538-1-ND	4-Ch. ESD Solution for HS Diff. Interface* ***NEW!***	10-MSOP	1.24	.99	.89
TPD4S009DGSR	296-24538-2-ND	4-Ch. ESD Solution for HS Diff. Interface* ***NEW!***	10-MSOP	1144.50/2,500		
TPD4S012DRYR	296-24244-1-ND	4-Ch. ESD Solution with Clamp* ***NEW!***	6-SON	.92	.72	.63
TPD4S012DRYR	296-24244-2-ND	4-Ch. ESD Solution with Clamp* ***NEW!***	6-SON	1420.00/5,000		
TPD4S1394DQLR	296-25455-1-ND	4-Channel Firewire ESD Solution* ***NEW!***	8-X2SON	1.01	.79	.69
TPD4S1394DQLR	296-25455-2-ND	4-Channel Firewire ESD Solution* ***NEW!***	8-X2SON	1002.00/3,000		
TPD6E001RSER	296-21888-1-ND	Low Cap. 6-Channel ESD Array	10-UQFN	.66	.47	.40
TPD6E001RSER	296-21888-2-ND	Low Cap. 6-Channel ESD Array	10-UQFN	558.00/3,000		
TPD6E004RSER	296-23619-1-ND	Low Cap. 6-Ch. ESD Array	8-QFN	.70	.55	.48
TPD6E004RSER	296-23619-2-ND	Low Cap. 6-Ch. ESD Array	8-QFN	696.00/3,000		
TPD6F002DSVR	296-25456-1-ND	6-Channel EMI Filter* ***NEW!***	12-SON	.92	.72	.63
TPD6F002DSVR	296-25456-2-ND	6-Channel EMI Filter* ***NEW!***	12-SON	915.00/3,000		
TPD6F003DQDR	296-25802-1-ND	6-Channel EMI Filter* ***NEW!***	12-WSON	.92	.72	.63
TPD6F003DQDR	296-25802-2-ND	6-Channel EMI Filter* ***NEW!***	12-WSON	915.00/3,000		
TPD8F003DQDR	296-25803-1-ND	8-Channel EMI FIlter* ***NEW!***	16-WSON	.95	.75	.68
TPD8F003DQDR	296-25803-2-ND	8-Channel EMI FIlter* ***NEW!***	16-WSON	1050.00/3,000		
TPD8S009DSMR	296-23829-1-ND	8-Ch., Display/HDMI Port ESD Protection	15-SON	1.93	1.49	1.35
TPD12S015YFFR	296-25801-1-ND	HDMI Companion Chip with Step-Up DC/DC, I^2C Level Shifter, and HS ESD Clamps* ***NEW!***	28-DSBGA	2.80	2.16	1.96
TPD12S015YFFR	296-25801-2-ND	HDMI Companion Chip with Step-Up DC/DC, I^2C Level Shifter, and HS ESD Clamps* ***NEW!***	28-DSBGA	3240.00/3,000		
TPD12S520DBTR	296-23617-1-ND	Single Chip HDMI Rcvr Port Protection and Interface Device	32-TSSOP	1.67	1.32	1.19
TPD12S521DBTR	296-24020-1-ND	Single Chip HDMI Rcvr Port Protection and Interface Device	38-TSSOP	1.79	1.41	1.27
TPD12S521DBTR	296-24020-2-ND	Single Chip HDMI Rcvr Port Protection and Interface Device	38-TSSOP	1316.00/2,000		

TEXAS INSTRUMENTS DigiReel®

BUS SOLUTIONS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Clock Drivers				
CDC111FN	296-6675-5-ND	3.3V Differential Clock Driver	28-PLCC	24.30	20.66	19.14
CDC203DW	296-6676-5-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	11.33	9.53	8.76
CDC204DW	296-6677-5-ND	6-Bit Inverter/Clock Driver	20-SOIC	11.13	9.13	8.24
CDC208DW	296-6678-5-ND	Dual 1-to-4 Clock Driver	20-SOIC	13.53	11.38	10.46
CDC3S04YFFR	296-25314-1-ND	Quad Sine-Wave Clock Buffer* ***NEW!***	20-DSBGA	5.40	4.41	3.96
CDC3S04YFFR	296-25314-2-ND	Quad Sine-Wave Clock Buffer* ***NEW!***	20-DSBGA	7182.00/3,000		
CDC318ADL	296-1383-5-ND	1-18 Line Clock Driver	48-SSOP	5.99	4.82	4.39
CDC319DB	296-17640-5-ND	1-10 Line Clock Driver	28-SSOP	4.82	3.87	3.53
CDC328AD	296-6693-5-ND	1-6 Clock Driver with Selectable Polarity	16-SOIC	11.66	9.81	9.01
CDC329AD	296-6696-5-ND	1-6 Clock Driver with Selectable Polarity	16-SOIC	11.63	9.54	8.61
CDC337DW	296-6697-5-ND	1-8 Clock Driver with Clear	20-SOIC	13.75	11.57	10.63
CDC339DB	296-6698-5-ND	1-8 Clock Driver with Clear	20-SSOP	11.55	9.72	8.93
CDC339DW	296-6699-5-ND	1-8 Clock Driver with Clear	20-SOIC	11.55	9.72	8.93
CDC340DW	296-6700-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	11.44	9.62	8.84
CDC341DW	296-6701-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	14.74	12.40	11.39
CDC351DB	296-6702-5-ND	Tri-State 3.3V Clock Driver	24-SSOP	14.96	12.58	11.56
CDC351DW	296-6703-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	14.96	12.58	11.56
CDC351IDB	296-15849-5-ND	Tri-State 3.3V Clock Driver	24-SSOP	16.72	14.06	12.92
CDC351IDW	296-15850-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	16.72	14.06	12.92
CDC391D	296-6704-5-ND	1-6 Clock Driver w/Selectable Polarity	16-SOIC	11.22	9.44	8.67
CDC421A100RGET	296-24584-1-ND	100.00MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A100RGET	296-24584-2-ND	100.00MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A106RGET	296-24585-1-ND	106.25MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A106RGET	296-24585-2-ND	106.25MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A125RGET	296-24586-1-ND	125.00MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A125RGET	296-24586-2-ND	125.00MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A156RGET	296-24587-1-ND	156.25MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A156RGET	296-24587-2-ND	156.25MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A212RGET	296-24588-1-ND	212.50MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A212RGET	296-24588-2-ND	212.50MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A250RGET	296-24589-1-ND	250.00MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A250RGET	296-24589-2-ND	250.00MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC421A312RGET	296-24590-1-ND	312.50MHz Clock Generator* ***NEW!***	24-VQFN	18.52	15.70	14.49
CDC421A312RGET	296-24590-2-ND	312.50MHz Clock Generator* ***NEW!***	24-VQFN	3119.50/250		
CDC509PWR	296-6705-1-ND	3.3V PLL Clock Driver	24-TSSOP	7.82	6.49	5.90
CDC509PWR	296-6705-2-ND	3.3V PLL Clock Driver	24-TSSOP	7670.00/2,000		
CDC516DGG	296-20833-5-ND	3.3V PLL Clock Driver	48-TSSOP	11.00	9.02	8.14
CDC536DB	296-6707-5-ND	3.3V PLL Clock Driver	28-SSOP	7.50	6.15	5.55
CDC582PAH	296-6708-5-ND	3.3V PLL Clock Driver	52-TQFP	13.75	11.57	10.63
CDC586PAH	296-6709-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	18.37	15.45	14.20
CDC706PW	296-21381-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/Divider	20-TSSOP	10.88	8.92	8.05
CDC857-2DGG	296-14163-5-ND	2.5V PLL Clock Driver	48-TSSOP	18.81	15.82	14.54
CDC906PW	296-21382-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/Divider	20-TSSOP	6.63	5.44	4.91
CDC924DL	296-6714-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	6.63	5.44	4.91
CDC925DL	296-6715-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	8.00	6.56	5.92
CDC930DL	296-15611-5-ND	133MHz Diff. Clock Syn./Driver	56-SSOP	5.32	4.28	3.90
CDC950DGG	296-9435-5-ND	133MHz Diff. Clock Syn./Driver	48-TSSOP	5.32	4.28	3.90
CDC960DL	296-12725-5-ND	200MHz Clock Synthesizer/Driver	48-SSOP	6.63	5.44	4.91
CDC2351DB	296-12628-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SSOP	13.75	11.57	10.63
CDC2351DW	296-6680-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SOIC	13.75	11.57	10.63
CDC2351MDBREP	296-18093-1-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SSOP	20.33	17.24	15.92
CDC2351QDB	296-9434-5-ND	Tri-State 1-10 Buffer Clock Driver	24-SSOP	13.42	11.29	10.37
CDC2509BPW	296-20832-5-ND	3.3V PLL Clock Driver	24-TSSOP	6.60	5.42	4.89
CDC2509CPW	296-15080-5-ND	3.3V PLL Clock Driver	24-TSSOP	9.45	7.75	7.00
CDC2509CPWR	296-6683-1-ND	3.3V PLL Clock Driver	24-TSSOP	8.35	6.93	6.30
CDC2510CPW	296-6686-5-ND	3.3V PLL Clock Driver	24-TSSOP	6.94	5.58	5.09
CDC2510CPWR	296-6686-1-ND	3.3V PLL Clock Driver	24-TSSOP	6.30	5.15	4.62
CDC2516DGGR	296-6687-1-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	8.24	6.85	6.22
CDC2536DB	296-6688-5-ND	Tri-State 3.3V PLL Clock Driver	28-SSOP	6.72	5.40	4.92
CDC2582PAH	296-6689-5-ND	3.3V Clock Driver	52-TQFP	13.75	11.57	10.63

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CDC2586PAH	296-6690-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	18.37	15.45	14.20
CDC5801ADBQ	296-21221-5-ND	Low Jitter Clock Multiplier/Divider	24-QSOP	11.13	9.13	8.24
CDC5801DBQ	296-13774-5-ND	Low Jitter Clock Multiplier/Divider	24-QSOP	11.28	9.25	8.35
CDC5806PW	296-17107-5-ND	Three PLLs Based Clock Generator	20-TSSOP	8.13	6.67	6.02
CDC7005-EVM	296-17044-ND	Evaluation Module for CDC7005 Series	—	203.00	—	—
CDC7005GVAT	296-17399-1-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	64-BGA	20.00	18.00	16.50
CDC7005QFN-EVM	296-20834-ND	Evaluation Module for CDC7005-QFN	—	203.00	—	—
CDC7005ZVA	296-26035-ND	High Performance Clock Sync.* **NEW!**	64-BGA	23.00	19.55	18.12
CDC421156RGET	296-21728-1-ND	156.25MHz Clock Generator	24-QFN	18.52	15.70	14.49
CDCD5704PW	296-21383-5-ND	Rambus™ XDR™ Clock Generator	28-TSSOP	8.43	6.91	6.24
CDCD5704PWR	296-26036-1-ND	Rambus™ XDR™ Clock Generator* **NEW!**	28-TSSOP	7.42	6.16	5.60
CDCD5704PWR	296-26036-2-ND	Rambus™ XDR™ Clock Generator* **NEW!**	28-TSSOP	7280.00/2,000		
CDCDLP223PW	296-21384-5-ND	3.3V Clock Synthesizer for DLP™ System	20-TSSOP	8.75	7.18	6.48
CDCDLP223PWR	296-26037-1-ND	3.3V Clock Synthesizer for DLP™ System* **NEW!**	20-TSSOP	7.69	6.38	5.80
CDCDLP223PWR	296-26037-2-ND	3.3V Clock Synthesizer for DLP™ System* **NEW!**	20-TSSOP	7540.00/2,000		
CDCE421ARGET	296-24489-1-ND	Fully Integrated, Wide Range, Crystal Oscillator Clock Generator* **NEW!**	24-VQFN	18.52	15.70	14.49
CDCE421ARGET	296-24489-2-ND	Fully Integrated, Wide Range, Crystal Oscillator Clock Generator* **NEW!**	24-VQFN	3119.50/250		
CDCE421RGET	296-21695-1-ND	Fully Integrated Wide Range, Crystal Oscillator Clock Generator	24-QFN	18.52	15.70	14.49
CDCE706PW	296-20674-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider	20-TSSOP	10.88	8.92	8.05
CDCE906PW	296-20675-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider	20-TSSOP	6.63	5.44	4.91
CDCE906PWR	296-26038-1-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider* **NEW!**	20-TSSOP	6.60	5.39	4.84
CDCE906PWR	296-26038-2-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider* **NEW!**	20-TSSOP	5852.00/2,000		
CDCE913PW	296-22670-5-ND	Prog. 1-PLL VCXO Clock Synthesizer	14-TSSOP	5.46	4.39	4.00
CDCE925PW	296-22031-5-ND	Prog. 2-PLL VCXO Clock Synthesizer	16-TSSOP	6.16	4.95	4.51
CDCE937PW	296-22706-5-ND	Prog. 3-PLL VCXO Clock Synthesizer	20-TSSOP	6.72	5.40	4.92
CDCE937QPWRQ1	296-25641-1-ND	Prog. 3-PLL VCXO Clock Synthesizer* **NEW!**	20-TSSOP	7.20	5.88	5.28
CDCE937QPWRQ1	296-25641-2-ND	Prog. 3-PLL VCXO Clock Synthesizer* **NEW!**	20-TSSOP	6384.00/2,000		
CDCE949PW	296-21984-ND	Prog. 4-PLL VCXO Clock Synthesizer	24-TSSOP	6.63	5.44	4.91
CDCE62002RHBT	296-24660-1-ND	4 Output Clock Synthesizer/Jitter Cleaner* **NEW!**	32-QFN	17.48	14.82	13.68
CDCE62002RHBT	296-24660-2-ND	4 Output Clock Synthesizer/Jitter Cleaner* **NEW!**	32-QFN	2945.00/250		
CDCE62005RGZT	296-23947-1-ND	5/10 Output Clock Generator/ Jitter Cleaner	48-QFN	19.90	16.87	15.57
CDCE72010RGCT	296-23522-1-ND	10 Output High Perf. Clock Synchronizer, Jitter Cleaner, and Clock Distributor	64-VQFN	24.90	22.41	20.55
CDCE72010RGCT	296-23522-2-ND	10 Output High Perf. Clock Synchronizer, Jitter Cleaner, and Clock Distributor	64-VQFN	4513.25/250		
CDCEL913IPWRQ1	296-25642-1-ND	Prog. 1-PLL VCXO Clock Synthesizer* **NEW!**	14-TSSOP	5.85	4.78	4.29
CDCEL913IPWRQ1	296-25642-2-ND	Prog. 1-PLL VCXO Clock Synthesizer* **NEW!**	14-TSSOP	5188.00/2,000		
CDCEL913PW	296-22917-5-ND	Prog. 1-PLL VCXO Clock Synthesizer	14-TSSOP	5.46	4.39	4.00
CDCEL925PW	296-22882-5-ND	Prog. 2-PLL VCXO Clock Synthesizer	16-TSSOP	6.16	4.95	4.51
CDCEL937PW	296-22918-5-ND	Prog. 3-PLL VCXO Clock Synthesizer	20-TSSOP	6.72	5.40	4.92
CDCEL949PW	296-22867-5-ND	Prog. 4-PLL VCXO Clock Synthesizer	24-TSSOP	6.63	5.44	4.91
CDCF2509PW	296-15356-5-ND	3.3V PLL Clock Driver	24-TSSOP	12.32	10.36	9.52
CDCF2510PW	296-6718-5-ND	3.3V PLL Clock Driver	24-TSSOP	7.03	5.77	5.20
CDCF2510PWR	296-6718-1-ND	3.3V PLL Clock Driver	24-TSSOP	7.05	5.76	5.17
CDCF5801ADBQ	296-19620-5-ND	Clock Multiplier with Delay Control and Phase Alignment	24-QSOP	8.88	7.28	6.57
CDCF5801DBQ	296-18405-5-ND	Clock Multiplier with Delay Control and Phase Alignment	24-QSOP	11.28	9.25	8.35
CDCFR83ADBQ	296-18599-5-ND	533MHz Direct Rambus Clock Generator	24-QSOP	6.58	5.29	4.82
CDCFR83DBQ	296-12311-5-ND	533MHz Direct Rambus Clock Generator	24-QSOP	6.78	5.45	4.97
CDCL1810RGZT	296-21571-1-ND	1.8V, 10 Output, High Performance Clock Distributor	48-QFN	15.87	13.46	12.42
CDCL6010RGZT	296-21572-1-ND	1.8V, 11 Output, Clock Multiplier/ Distributor/ Jitter Cleaner/Buffer	48-VQFN	19.90	16.87	15.57
CDCL6010RGZT	296-21572-2-ND	1.8V, 11 Output, Clock Multiplier/ Distributor/ Jitter Cleaner/Buffer	48-VQFN	3352.00/250		
CDCLVD110ARHBT	296-23857-1-ND	Prog. Low Voltage 2:10 LVDS Clock Driver	32-QFN	14.86	12.60	11.63
CDCLVD110ARHBT	296-23857-2-ND	Prog. Low Voltage 2:10 LVDS Clock Driver	32-QFN	2503.25/250		
CDCLVD110AVF	296-21573-ND	Prog. LV 2:10 LVDS Clock Driver	32-LQFP	14.85	12.49	11.48
CDCLVD110VF	296-13712-5-ND	Prog. LV 1:10 LVDS Clock Driver	32-LQFP	19.47	16.38	15.05
CDCLVP110VF	296-15357-ND	LV 1:10 LVPECL/HSTL with Selectable Input Clock Driver	32-LQFP	14.52	12.21	11.22
CDCLVP111RHBR	296-24236-1-ND	LV 2:10 LVPECL with Selectable Input Clock Driver* **NEW!**	32-QFN	12.77	10.83	9.99
CDCLVP111RHBR	296-24236-2-ND	LV 2:10 LVPECL with Selectable Input Clock Driver* **NEW!**	32-QFN	21228.00/3,000		
CDCLVP111VF	296-24168-5-ND	LV 2:10 LVPECL with Selectable Input Clock Driver*	32-LQFP	12.21	10.27	9.44
CDCLVP215RHBR	296-23938-1-ND	LV 1:5 LVPECL Dual Differential Clock Driver	32-QFN	12.77	10.83	9.99
CDCLVP215RHBR	296-23938-2-ND	LV 1:5 LVPECL Dual Differential Clock Driver	32-QFN	21228.00/3,000		
CDCLVP215RHBT	296-24687-1-ND	LV 1:5 LVPECL Dual Differential Clock Driver* **NEW!**	32-QFN	14.72	12.48	11.52
CDCLVP215RHBT	296-24687-2-ND	LV 1:5 LVPECL Dual Differential Clock Driver* **NEW!**	32-QFN	2480.00/250		
CDCLVP1102EVM	296-25230-ND	Eval. Module for CDCLVP1102 **NEW!**	—	152.00	—	—
CDCLVP1102RGTT	296-25283-1-ND	Single 1:2 LVPECL Clock Buffer* **NEW!**	16-QFN	7.69	6.38	5.80
CDCLVP1102RGTT	296-25283-2-ND	Single 1:2 LVPECL Clock Buffer* **NEW!**	16-QFN	1232.50/250		
CDCLVP1204RGTT	296-25244-1-ND	2:4 LVPECL Diff. Clock Buffer* **NEW!**	16-QFN	10.07	8.36	7.60
CDCLVP1204RGTT	296-25244-2-ND	2:4 LVPECL Diff. Clock Buffer* **NEW!**	16-QFN	1615.00/250		
CDCLVP1208RHDT	296-25302-1-ND	Single 2:8 LVPECL Clock Buffer* **NEW!**	28-QFN	13.23	11.22	10.35
CDCLVP1208RHDT	296-25302-2-ND	Single 2:8 LVPECL Clock Buffer* **NEW!**	28-QFN	2228.25/250		
CDCLVP1212RHAT	296-25141-1-ND	2:12 LVPECL Diff. Clock Buffer* **NEW!**	40-QFN	17.25	14.63	13.50
CDCLVP1212RHAT	296-25141-2-ND	2:12 LVPECL Diff. Clock Buffer* **NEW!**	40-QFN	2906.25/250		
CDCLVP1216RGZT	296-24658-1-ND	2:16 LVPECL Diff. Clock Buffer* **NEW!**	48-QFN	22.54	19.11	17.64
CDCLVP1216RGZT	296-24658-2-ND	2:16 LVPECL Diff. Clock Buffer* **NEW!**	48-QFN	3797.50/250		
CDCLVP2102EVM	296-25231-ND	Eval. Module for CDCLVP2102 **NEW!**	—	152.00	—	—
CDCLVP2102RGTT	296-25284-1-ND	Dual 2:4 LVPECL Clock Buffer* **NEW!**	16-QFN	10.07	8.36	7.60
CDCLVP2102RGTT	296-25284-2-ND	Dual 2:4 LVPECL Clock Buffer* **NEW!**	16-QFN	1615.00/250		
CDCLVP2104RHDT	296-25303-1-ND	Dual 2:8 LVPECL Clock Buffer* **NEW!**	28-QFN	13.23	11.22	10.35
CDCLVP2104RHDT	296-25303-2-ND	Dual 2:8 LVPECL Clock Buffer* **NEW!**	28-QFN	2228.25/250		
CDCLVP2106RHAT	296-25142-1-ND	Dual 1:12 LVPECL Diff. Clock Buffer* **NEW!**	40-QFN	17.25	14.63	13.50
CDCLVP2106RHAT	296-25142-2-ND	Dual 1:12 LVPECL Diff. Clock Buffer* **NEW!**	40-QFN	2906.25/250		
CDCLVP2108RGZT	296-24659-1-ND	Dual 1:16 LVPECL Diff. Clock Buffer* **NEW!**	48-QFN	22.54	19.11	17.64
CDCLVP2108RGZT	296-24659-2-ND	Dual 1:16 LVPECL Diff. Clock Buffer* **NEW!**	48-QFN	3797.50/250		
CDCM1802RGTT	296-17045-1-ND	Clock Buffer with Prog. Divider	16-VQFN	12.42	10.53	9.72
CDCM7005BGA-EVM	296-20835-ND	Evaluation Module for CDCM7005-BGA	—	203.00	—	—
CDCM7005QFN-EVM	296-20836-ND	Evaluation Module for CDCM7005-QFN	—	203.00	—	—
CDCM61001RHBT	296-24192-1-ND	1:1 Low-Jitter Clock Generator* **NEW!**	32-QFN	12.85	10.67	9.70
CDCM61001RHBT	296-24192-2-ND	1:1 Low-Jitter Clock Generator* **NEW!**	32-QFN	2061.25/250		
CDCM61002RHBT	296-24193-1-ND	1:2 Low-Jitter Clock Generator* **NEW!**	32-QFN	13.23	11.22	10.35
CDCM61002RHBT	296-24193-2-ND	1:2 Low-Jitter Clock Generator* **NEW!**	32-QFN	2228.25/250		
CDCM61004RHBT	296-24194-1-ND	1:4 Low-Jitter Clock Generator* **NEW!**	32-QFN	17.25	14.63	13.50
CDCM61004RHBT	296-24194-2-ND	1:4 Low-Jitter Clock Generator* **NEW!**	32-QFN	2906.25/250		
CDCP1803MRGETEP	296-24047-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-VQFN	16.10	13.65	12.60
CDCP1803MRGETEP	296-24047-2-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-VQFN	2712.50/250		
CDCP1803RGET	296-18095-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	9.67	8.03	7.30
CDCR61APW	296-14633-5-ND	Rambus™ Clock Generator	16-TSSOP	6.10	4.91	4.47
CDCR81DBQR	296-6720-1-ND	Direct Rambus™ Clock Generator	24-QSOP	7.02	5.83	5.30
CDCR83ADBQ	296-18600-5-ND	400MHz Direct Rambus Clock Generator	24-QSOP	5.66	4.55	4.15
CDCR83DBQ	296-12165-5-ND	400MHz Direct Rambus Clock Generator	24-QSOP	5.96	4.80	4.37
CDCS501PW	296-24488-5-ND	3.3V Clock Generator/Buffer* **NEW!**	8-TSSOP	1.71	1.38	1.24
CDCS501PWR	296-24443-1-ND	3.3V Clock Generator/Buffer* **NEW!**	8-TSSOP	1.71	1.35	1.22
CDCS501PWR	296-24443-2-ND	3.3V Clock Generator/Buffer* **NEW!**	8-TSSOP	1260.00/2,000		
CDCS502PWR	296-24080-1-ND	3.3V Crystal Oscillator/Clock Generator	8-TSSOP	3.33	2.57	2.33
CDCS502PWR	296-24080-2-ND	3.3V Crystal Oscillator/Clock Generator	8-TSSOP	2566.00/2,000		
CDCS503PW	296-24329-5-ND	3.3V Clock Buffer/Multiplier* **NEW!**	8-TSSOP	1.86	1.50	1.35
CDCS503PWR	296-24295-1-ND	3.3V Clock Buffer/Multiplier* **NEW!**	8-TSSOP	1.75	1.35	1.23
CDCS503PWR	296-24295-2-ND	3.3V Clock Buffer/Multiplier* **NEW!**	8-TSSOP	1350.00/2,000		
CDCU2A877ZQLT	296-20718-1-ND	1.8V PLL Clock Driver	52-BGA	7.90	6.56	5.96
CDCU2A877ZQLT	296-20718-2-ND	1.8V PLL Clock Driver	52-BGA	1266.50/250		
CDCU877ARHAT	296-19539-1-ND	1.8V PLL Clock Driver	40-VQFN	7.90	6.56	5.96
CDCU877AZQLT	296-16828-1-ND	1.8V PLL Clock Driver	52-BGA	7.90	6.56	5.96
CDCU877BZQLT	296-18287-1-ND	1.8V PLL Clock Driver	52-BGA	7.90	6.56	5.96
CDCU877GQLT	296-16758-1-ND	1.8V PLL Clock Driver	52-BGA	7.90	6.56	5.96
CDCU877RTBT	296-16759-1-ND	1.8V PLL Clock Driver	40-QFN	7.58	6.30	5.72
CDCUA877ZQLR	296-26039-1-ND	1.8V PLL Clock Driver* **NEW!**	52-BGA	7.45	6.19	5.62
CDCUA877ZQLR	296-26039-2-ND	1.8V PLL Clock Driver* **NEW!**	52-BGA	3794.00/1,000		
CDCV304PW	296-12420-5-ND	General Purpose PCI-X Clock Buffer	8-TSSOP	3.30	2.66	2.42
CDCV304PWR	296-9436-1-ND	General Purpose PCI-X Clock Buffer	8-TSSOP	3.40	2.62	2.38
CDCV304PWR	296-9436-2-ND	General Purpose PCI-X Clock Buffer	8-TSSOP	2620.00/2,000		
CDCV850DGG	296-6721-5-ND	2.5V PLL Clock Driver	48-TSSOP	6.24	5.02	4.58
CDCV850IDGG	296-14164-5-ND	2.5V PLL Clock Driver with 2 Line Serial Interface	48-TSSOP	6.30	5.17	4.67
CDCV855IPW	296-14305-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	4.20	3.38	3.08
CDCV855PW	296-12200-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	3.78	3.04	2.77
CDCV857ADGG	296-11575-5-ND	2.5V PLL Clock Driver	48-TSSOP	7.35	6.03	5.44
CDCV857AGQLR	296-13775-1-ND	2.5V PLL Clock Driver	56-BGA	7.02	5.83	5.30
CDCV857BDGG	296-14165-5-ND	2.5V PLL Clock Driver	48-TSSOP	9.25	7.59	6.85
CDCV857BIDGG	296-13857-5-ND	2.5V PLL Clock Driver	48-TSSOP	10.40	8.53	7.70
CDCV857DGG	296-24143-5-ND	2.5V PLL Clock Driver*	48-TSSOP	10.60	8.70	7.85
CDCV857DGGR	296-6722-1-ND	2.5V PLL Clock Driver	48-TSSOP	9.35	7.77	7.06
CDCV857DGGR	296-6722-2-ND	2.5V PLL Clock Driver	48-TSSOP	9178.00/2,000		
CDCVF111FN	296-12421-5-ND	1:9 Diff. LVPECL Clock Driver	28-PLCC	22.40	19.04	17.64
CDCVF310PW	296-17358-ND	2.5V-3.3V High-Perf. Clock Buffer	24-TSSOP	6.86	5.52	5.03
CDCVF855PW	296-21732-5-ND	2.5V PLL Clock Driver	28-TSSOP	4.48	3.60	3.28
CDCVF857DGG	296-16634-5-ND	2.5V PLL Clock Driver	48-TSSOP	9.13	7.49	6.76
CDCVF2310PW	296-12019-5-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	6.86	5.52	5.03
CDCVF2310PWR	296-12019-1-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	6.15	5.03	4.51
CDCVF2310PWR	296-12019-2-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	5454.00/2,000		
CDCVF2505D	296-6723-5-ND	3.3V PLL Clock Driver	8-SOIC	2.85	2.30	2.07
CDCVF2505IDRQ1	296-24149-1-ND	3.3V PLL Clock Driver*	8-SOIC	3.22	2.49	2.26
CDCVF2505PW	296-9437-5-ND	3.3V PLL Clock Driver	8-TSSOP	2.85	2.30	2.07
CDCVF2509APW	296-18406-5-ND	3.3V PLL Clock Driver	24-TSSOP	9.78	8.02	7.24
CDCVF2509PW	296-13070-5-ND	3.3V PLL Clock Driver	24-TSSOP	8.08	6.63	5.98
CDCVF2509PWR	296-6724-1-ND	3.3V PLL Clock Driver	24-TSSOP	7.23	6.01	5.46
CDCVF2510APW	296-18407-5-ND	3.3V PLL Clock Driver	24-TSSOP	6.50	5.33	4.81
CDCVF2510PW	296-6725-5-ND	3.3V PLL Clock Driver	24-TSSOP	6.50	5.33	4.81
CDCVF25081D	296-12270-5-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	4.12	3.31	3.02
CDCVF25081DR	296-12270-1-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	3.66	2.99	2.69
CDCVF25081PW	296-12271-5-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	4.12	3.31	3.02
CDCVF25084PW	296-15081-5-ND	3.3V, 1:8 Zero Delay (PLL)x4 Clock Multiplier	16-TSSOP	9.78	8.02	7.24
PLL1700E	PLL1700E-ND	Audio System Multiclock Generator (PLL)	20-SSOP	6.92	5.56	5.07
PLL1705DBQ	296-13605-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	4.34	3.49	3.18
PLL1706DBQ	296-13606-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	5.32	4.28	3.90
PLL1707DBQ	296-14182-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	4.62	3.72	3.39
PLL1708DBQ	296-14183-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	4.62	3.72	3.39
TB5D1MD	296-15747-5-ND	Quad Differential PECL Driver	16-SOIC	19.03	16.01	14.71
TB5D1MDW	296-15748-5-ND	Quad Differential PECL Driver	16-SOIC	19.03	16.01	14.71
TB5D2HD	296-15749-5-ND	Quad Differential PECL Driver	16-SOIC	19.03	16.01	14.71
TB5D2HDW	296-15750-5-ND	Quad Differential PECL Driver	16-SOIC	19.03	16.01	14.71
TB5R3D	296-19322-5-ND	Quad Differential PECL Receiver	16-SOIC	25.70	21.85	20.24
TB5R3DW	296-19323-5-ND	Quad Differential PECL Receiver	16-SOIC	25.70	21.85	20.24
		I^2C				
PCA9306DCTR	296-18509-1-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	SM8	.99	.78	.71
PCA9306DCTR	296-18509-2-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	SM8	1092.00/3,000		

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RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9306DCUR	296-17988-1-ND	Dual Bidirectional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	.99	.78	.71
PCA9306DCUR	296-17988-2-ND	Dual Bidirectional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	1092.00/3,000		
PCA9515ADGKR	296-20646-1-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-MSOP	3.33	2.57	2.33
PCA9515ADGKR	296-20646-2-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-MSOP	3207.50/2,500		
PCA9515ADRGR	296-23860-1-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-SON	3.33	2.57	2.33
PCA9515ADRGR	296-23860-2-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-SON	1378.00/1,000		
PCA9515APWR	296-20946-1-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-TSSOP	3.33	2.57	2.33
PCA9515APWR	296-20946-2-ND	Dual Bidirectional I^{2}C Bus and SMBus Repeater	8-TSSOP	2566.00/2,000		
PCA9517DGKR	296-24730-1-ND	Level-Translating I^{2}C Bus Repeater* ***NEW!***	8-MSOP	3.15	2.58	2.31
PCA9517DGKR	296-24730-2-ND	Level-Translating I^{2}C Bus Repeater* ***NEW!***	8-MSOP	3492.50/2,500		
PCA9544APWR	296-20959-1-ND	4-Channel I^{2}C and SMBus Mux	20-TSSOP	3.33	2.57	2.33
PCA9544ARGYR	296-20960-1-ND	4-Channel I^{2}C and SMBus Mux	20-VQFN	3.33	2.57	2.33
PCA9544AZQNR	296-20961-1-ND	4-Channel I^{2}C and SMBus Mux	20-BGA	3.33	2.57	2.33
PCA9545APWR	296-20963-1-ND	4-Channel I^{2}C and SMBus Switch	20-TSSOP	3.33	2.57	2.33
PCA9545APWR	296-20963-2-ND	4-Channel I^{2}C and SMBus Switch	20-TSSOP	2566.00/2,000		
PCA9545ARGYR	296-20964-1-ND	4-Channel I^{2}C and SMBus Switch	20-VQFN	3.33	2.57	2.33
PCA9546ADR	296-21770-1-ND	4-Channel I^{2}C and SMBus Switch	16-SOIC	2.98	2.30	2.09
PCA9546ADR	296-21770-2-ND	4-Channel I^{2}C and SMBus Switch	16-SOIC	2868.75/2,500		
PCA9546ADWR	296-20967-1-ND	4-Channel I^{2}C and SMBus Switch	16-SOIC	2.98	2.30	2.09
PCA9546APWR	296-20968-1-ND	4-Channel I^{2}C and SMBus Switch	16-TSSOP	2.98	2.30	2.09
PCA9548ADWR	296-21774-1-ND	8-Channel I^{2}C Switch	24-SOIC	3.45	2.82	2.53
PCA9548APWR	296-21775-1-ND	8-Channel I^{2}C Switch	24-TSSOP	3.45	2.82	2.53
PCA9548APWR	296-21775-2-ND	8-Channel I^{2}C Switch	24-TSSOP	3060.00/2,000		
TCA4311DGKR	296-24461-1-ND	Hot Swap I^{2}C Bus Buffer* ***NEW!***	8-MSOP	4.35	3.56	3.19
TCA4311DGKR	296-24461-2-ND	Hot Swap I^{2}C Bus Buffer* ***NEW!***	8-MSOP	4821.25/2,500		
TCA4311DR	296-24462-1-ND	Hot Swap I^{2}C Bus Buffer* ***NEW!***	8-SOIC	4.35	3.56	3.19
TCA4311DR	296-24462-2-ND	Hot Swap I^{2}C Bus Buffer* ***NEW!***	8-SOIC	4821.25/2,500		
TCA6416APWR	296-24536-1-ND	Low-Voltage 16-Bit I^{2}C and SMBus I/O Expander* ***NEW!***	24-TSSOP	2.98	2.30	2.09
TCA6416APWR	296-24536-2-ND	Low-Voltage 16-Bit I^{2}C and SMBus I/O Expander* ***NEW!***	24-TSSOP	2296.00/2,000		
TCA6416AZQSR	296-24559-1-ND	Low Voltage 16-Bit I^{2}C and SMBus I/O Expander* ***NEW!***	24-BGA	2.98	2.30	2.09
TCA6416AZQSR	296-24559-2-ND	Low Voltage 16-Bit I^{2}C and SMBus I/O Expander* ***NEW!***	24-BGA	2870.00/2,500		
TCA6507PWR	296-22777-1-ND	7-Bit I^{2}C/SMBus LED Driver	14-TSSOP	2.63	2.03	1.84
TCA6507PWR	296-22777-2-ND	7-Bit I^{2}C/SMBus LED Driver	14-TSSOP	2025.00/2,000		
TCA6507RUER	296-23111-1-ND	7-Bit I^{2}C/SMBus LED Driver	12-QFN	2.63	2.03	1.84
TCA6507RUER	296-23111-2-ND	7-Bit I^{2}C/SMBus LED Driver	12-QFN	3039.00/3,000		
IEEE 1394						
TSB12LV01BIPZTEP	296-18175-ND	IEEE 1394-1995 High Speed, Serial Bus Link Layer Controller	100-TQFP	23.82	20.25	18.76
TSB12LV01BPZT	296-11062-ND	High Performance Link Layer	100-TQFP	19.65	16.53	15.19
TSB12LV21BMPGFEP	296-23415-ND	IEEE 1394 Link Layer Controller	176-PQFP	38.48	32.71	30.31
TSB12LV26PZT	296-11065-ND	Open Host Controller	100-TQFP	9.95	8.16	7.37
TSB12LV32TPZEP	296-18177-ND	IEEE 1394a-2000 Link Layer Controller	100-LQFP	20.36	17.31	16.04
TSB12LV32PZ	296-11067-ND	General Purp. Link Layer Controller	100-LQFP	11.37	9.57	8.79
TSB14AA1AIPFB	296-15048-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	11.09	9.33	8.57
TSB14AA1APFB	296-14214-5-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	11.11	9.35	8.59
TSB14AA1TPFB	296-13421-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	14.30	12.03	11.05
TSB41AB1GQE	296-15735-ND	One-Port Cable Transceiver/Arbiter	80-BGA	4.20	3.38	3.08
TSB41AB1PAP	296-11074-ND	One-Port Cable Transceiver/Arbiter	64-HTQFP	4.20	3.38	3.08
TSB41AB1PHP	296-11075-ND	One-Port Cable Transceiver/Arbiter	48-HTQFP	4.20	3.38	3.08
TSB41AB1ZQE-64	296-19564-ND	IEEE 1394a-2000 One-Port Cable Transceiver/Arbiter	64-BGA	4.20	3.38	3.08
TSB41AB2PAP	296-11076-ND	Two-Port Cable Transceiver/Arbiter	64-HTQFP	6.30	5.07	4.62
TSB41AB3IPFPEP	296-22528-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	7.65	6.28	5.67
TSB41AB3MPFPEP	296-23555-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	14.52	12.21	11.22
TSB41AB3PFP	296-11077-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	7.50	6.15	5.55
TSB41BA3APFP	296-17185-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter* ***NEW!***	80-HTQFP	17.95	15.10	13.88
TSB41BA3ATPFPEP	296-18178-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	23.26	19.78	18.32
TSB41BA3BPFP	296-19370-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	16.17	13.60	12.50
TSB41BA3BTPFPEP	296-22529-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	21.74	18.28	16.80
TSB41BA3DIPFP	296-24207-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter* ***NEW!***	80-HTQFP	15.51	13.05	11.99
TSB41BA3DPFP	296-24208-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter* ***NEW!***	80-HTQFP	14.08	11.84	10.88
TSB41LV04APFP	296-11078-ND	Four-Port Cable Transceiver/Arbiter	80-HTQFP	17.82	14.99	13.77
TSB41LV06APZP	296-11079-ND	Six-Port Cable Transceiver/Arbiter	100-HTQFP	14.08	11.84	10.88
TSB42AC3PZT	296-16848-ND	1394 Link Layer Controller	100-TQFP	17.86	15.03	13.81
TSB43AA82AIPGEEP	296-22610-ND	1394 Integrated PHY and Link-Layer Controller	144-LQFP	22.22	18.89	17.50
TSB43AB21AIPDTEP	296-18179-ND	Integrated 1394a-2000 OHCI PHY/Link-Layer Controller	128-TQFP	10.25	8.41	7.59
TSB43AB21APDT	296-12698-ND	Phy/Link-Layer Controller	128-TQFP	11.13	9.13	8.24
TSB43AB22APDT	296-12569-ND	1394a Link Layer Controller	128-TQFP	8.13	6.67	6.02
TSB43AB23IPDTEP	296-19531-ND	Integrated 1394a-2000 OHCI PHY/Link Layer Controller	128-TQFP	12.13	9.95	8.98
TSB43AB23PDT	296-12408-ND	IEEE-1394 Controller	128-TQFP	10.63	8.72	7.87
TSB43AB23PDTG4	296-18073-ND	IEEE 1394a-2000 OHCI PHY/Link Layer Controller	128-TQFP	10.63	8.72	7.87
TSB43AB23PGE	296-14328-ND	OHCI Phy/Link Layer Controller	144-LQFP	10.63	8.72	7.87
TSB43CB43APGF	296-14329-ND	iceLynx-Micro with Streaming Audio	176-LQFP	26.94	22.90	21.22
TSB43EA42ZGU	296-23556-ND	IEEE 1394a-2000 Link Layer	144-BGA	14.10	11.86	10.90
TSB43EB42ZGU	296-25792-ND	IEEE 1394a-2000 Link Layer* ***NEW!***	144-BGA	14.96	12.58	11.56
TSB81BA3DPFP	296-19901-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	13.00	10.94	10.05
TSB81BA3EPFP	296-24602-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter* ***NEW!***	80-HTQFP	11.88	9.99	9.18

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RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TSB81BA3IPFPEP	296-22530-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	21.56	18.13	16.66
TSB81BA3PFP	296-14215-5-ND	IEEE 1394b Three-Port Cable Transceiver/ Arbiter	80-HTQFP	13.00	10.94	10.05
TSB82AA2BIPGE	296-23936-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	16.17	13.60	12.50
TSB82AA2IPGEEP	296-18180-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	19.56	16.45	15.12
TSB82AA2PGE	296-14445-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	14.67	12.34	11.34
TSB83AA23ZAY	296-22860-ND	IEEE Std 1394b-2002 PHY and OHCI Link Device	167-NFBGA	16.94	14.25	13.09
PCI						
PCI1510GGU	296-12730-ND	Single Slot CardBus Controller	144-BGA	7.65	6.28	5.67
PCI1510PGE	296-12731-ND	Single Slot CardBus Controller	144-LQFP	7.70	6.32	5.70
PCI1510ZGU	296-15728-ND	Single Slot CardBus Controller	144-BGA	7.70	6.32	5.70
PCI1520GHK	296-12279-5-ND	PCI-to-CardBus Controller	209-BGA	9.25	7.59	6.85
PCI1520IGHKEP	296-22194-ND	PCI-to-CardBus Controller	209-BGA	12.03	10.12	9.30
PCI1520IPDV	296-16945-ND	PCI-to-CardBus Controller	208-LQFP	10.25	8.41	7.59
PCI1520IPDVEP	296-19772-ND	PCI-to-CardBus Controller	208-LQFP	12.03	10.12	9.30
PCI1520IZHK	296-26296-5-ND	PCI-to-CardBus Controller* ***NEW!***	209-BGA	10.25	8.41	7.59
PCI1520PDV	296-12280-5-ND	PCI-to-CardBus Controller	208-LQFP	9.30	7.63	6.89
PCI1520ZHK	296-16918-ND	PCI-to-CardBus Controller	209-BGA	9.30	7.63	6.89
PCI2040GGU	296-9633-5-ND	PCI-to-DSP Bridge Controller	144-BGA	26.40	22.44	20.79
PCI2040PGE	296-9634-ND	PCI-to-DSP Bridge Controller	144-LQFP	26.40	22.44	20.79
PCI2050BGHK	296-15213-ND	32-Bit, 66MHz PCI-to-PCI Bridge	257-BGA	20.90	17.58	16.15
PCI2050BIGHK	296-26297-ND	32-Bit, 66MHz PCI-to-PCI Bridge* ***NEW!***	257-BGA	20.90	17.77	16.46
PCI2050BIPDV	296-26298-ND	32-Bit, 66MHz PCI-to-PCI Bridge* ***NEW!***	208-LQFP	20.90	17.77	16.46
PCI2050BPDV	296-14347-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-LQFP	20.90	17.58	16.15
PCI2050BPPM	296-15344-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-QFP	20.90	17.58	16.15
PCI2050BZHK	296-21638-ND	32-Bit, 66MHz PCI-to-PCI Bridge	257-BGA	20.90	17.58	16.15
PCI2060ZHK	296-19316-ND	PCI-to-PCI Bridge	257-PBGA	23.80	20.23	18.75
PCI2250PCM	296-9639-ND	32-Bit, 33MHz PCI-to-PCI Bridge	160-QFP	13.42	11.29	10.37
PCI2250PCMG4	296-26299-ND	32-Bit, 33MHz PCI-to-PCI Bridge* ***NEW!***	160-QFP	13.42	11.29	10.37
PCI2250PGF	296-9640-ND	32-Bit, 33MHz PCI-to-PCI Bridge	176-LQFP	13.42	11.29	10.37
PCI4510AZHK	296-17169-ND	PC Card and Integrated 1394a-2000 OHCI 2-Port PHY/Link-Layer Controller	209-BGA	18.72	15.75	14.47
PCI4512ZHK	296-24374-ND	Integrated PC Card* ***NEW!***	216-BGA	6.63	5.44	4.91
PCI6412ZHK	296-24375-ND	PC Card Controller* ***NEW!***	216-BGA	11.00	9.02	8.14
PCI7402ZHK	296-24376-ND	Integrated FlashMedia* ***NEW!***	216-BGA	10.90	8.94	8.07
PCI7412ZHK	296-24377-ND	PC Card Controller* ***NEW!***	216-BGA	11.20	9.42	8.66
PCI7421ZHK	296-24378-ND	Dual PC Card Controller* ***NEW!***	288-BGA	29.84	25.37	23.50
PCI7621ZHK	296-17308-ND	Six-Function PCI Controller	288-BGA	31.98	27.19	25.19
PCI8402ZHK	296-24379-ND	Integrated FlashMedia* ***NEW!***	216-BGA	8.78	7.20	6.50
PCI8412ZHK	296-24380-ND	Integrated FlashMedia* ***NEW!***	216-BGA	10.80	8.86	8.00
TS2PCIE2212ZAHRG1	296-24682-1-ND	PCI-Express™ Signal Switch* ***NEW!***	48-NFBGA	4.95	4.05	3.63
TS2PCIE2212ZAHRG1	296-24682-2-ND	PCI-Express™ Signal Switch* ***NEW!***	48-NFBGA	6583.50/3,000		
TS2PCIE412RUAR	296-24227-1-ND	PCI-Express™ Mux/Demux* ***NEW!***	42-QFN	3.33	2.57	2.33
TS2PCIE412RUAR	296-24227-2-ND	PCI-Express™ Mux/Demux* ***NEW!***	42-QFN	3847.50/3,000		
TS2PCIE2212ZAHR	296-20668-1-ND	PCI-Express™ Signal Switch	48-NFBGA	4.95	4.05	3.63
XIO1100GGB	296-20664-ND	X1 PCI-Express™ PHY	100-BGA	15.40	12.95	11.90
XIO1100ZGB	296-20665-ND	X1 PCI-Express™ PHY	100-BGA	15.40	12.95	11.90
XIO2000AGZZ	296-21213-ND	PCI-Express™ to PCI/PCI-X Bridge	201-BGA	23.88	20.30	18.81
XIO2000AIZHH	296-24098-ND	PCI-Express™ to PCI/PCI-X Bridge	175-BGA	27.12	23.06	21.36
XIO2000AIZZZ	296-24099-ND	PCI-Express™ to PCI/PCI-X Bridge	201-BGA	27.12	23.06	21.36
XIO2000AZHH	296-21526-ND	PCI-Express™ to PCI/PCI-X Bridge	175-BGA	23.88	20.30	18.81
XIO2000AZZZ	296-19569-ND	PCI-Express™ to PCI/PCI-X Bridge	201-BGA	21.03	17.69	16.26
XIO2000GZZ	296-18641-ND	PCI-Express™ Bridge	201-BGA	29.90	25.42	23.55
XIO2000ZZZ	296-18642-ND	PCI-Express™ Bridge	201-BGA	29.90	25.42	23.55
XIO2001IZAJ	296-25512-ND	PCI-Express™ Bridge* ***NEW!***	144-BGA	13.31	11.20	10.29
XIO2001IZGU	296-24539-ND	PCI-Express™ Bridge* ***NEW!***	169-BGA	13.31	11.20	10.29
XIO2001ZAJ	296-24874-ND	PCI-Express™ Bridge* ***NEW!***	144-BGA	12.10	10.18	9.35
XIO2001ZGU	296-24540-ND	PCI-Express™ Bridge* ***NEW!***	169-BGA	12.10	10.18	9.35
XIO2200AGGW	296-19617-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	20.68	17.39	15.98
XIO2200AZGW	296-19567-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	20.68	17.39	15.98
XIO2200AZHH	296-21636-ND	PCI-Express™ to PCI-Translation Bridge	175-BGA	20.68	17.39	15.98
XIO2200ZGW	296-19486-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	30.10	25.59	23.71
XIO2213AZAY	296-23578-ND	PCI-Express™ to 1394b OHCI	167-BGA	20.39	17.15	15.76
XIO2213BZAJ	296-24898-ND	PCI-Express™ to 1394b OHCI* ***NEW!***	168-BGA	12.65	10.64	9.78
XIO2213BZAY	296-24549-ND	PCI-Express™ to 1394b OHCI* ***NEW!***	167-BGA	12.65	10.64	9.78
XIO2221ZAY	296-25869-ND	PCI-Express™ to 1394b OHCI* ***NEW!***	167-BGA	12.65	10.64	9.78
XIO3130IZHC	296-25426-ND	Integrated PCI Express™ Fanout Switch* ***NEW!***	196-BGA	21.23	17.86	16.41
XIO3130ZHC	296-23649-ND	Integrated PCI Express™ Fanout Switch	196-BGA	19.25	16.19	14.88
PECL						
TB3R1D	296-15945-5-ND	Quad Differential PECL Receiver	16-SOIC	25.60	21.76	20.16
TB3R2D	296-15946-5-ND	Quad Differential PECL Receiver	16-SOIC	20.80	17.68	16.38
TB5R1D	296-15947-5-ND	Quad Differential PECL Receiver	16-SOIC	19.03	16.01	14.71
TB5R1DW	296-15948-5-ND	Quad Differential PECL Receiver	16-SOIC	19.03	16.01	14.71
TB5R1LDW	296-17535-5-ND	Quad Differential PECL Receiver	16-SOIC	19.03	16.01	14.71
TB5R2D	296-15949-5-ND	Quad Differential PECL Receiver	16-SOIC	19.03	16.01	14.71
TB5R2DW	296-15950-5-ND	Quad Differential PECL Receiver	16-SOIC	19.03	16.01	14.71
TB5T1D	296-16689-5-ND	Dual Differential PECL Driver/Receiver	16-SOIC	19.03	16.01	14.71
TB5T1DW	296-16690-5-ND	Dual Differential PECL Driver/Receiver	16-SOIC	19.03	16.01	14.71

TEXAS INSTRUMENTS DigiReel® CCD

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE0064IPBK	296-25289-ND	64-Channel Analog Front End* ***NEW!***	128-LQFP	51.00	45.00	42.75
TLV990-13PFB	296-10737-ND	10-Bit, 13MSPS CCD Signal Processor/Digitizer	48-TQFP	7.45	6.11	5.52
TLV990-21PFB	296-10738-ND	10-Bit, 21MSPS CCD Analog Front End	48-TQFP	6.44	5.18	4.72
TLV990-28PFB	296-10739-ND	10-Bit, 28MSPS CCD Analog Front End	48-TQFP	8.83	7.24	6.54
TLV990-40PFB	296-10740-ND	10-Bit, 40MSPS CCD Analog Front End	48-TQFP	9.68	7.94	7.16
TSC2000IPW	TSC2000IPW-ND	Prog. Touch Screen Controller	20-TSSOP	7.13	5.85	5.28
VSP10T21PFB	296-12701-ND	Video Signal Processor/Digitizer	48-TQFP	11.25	9.23	8.33
VSP1221PFB	296-12296-ND	LP CCD Signal Processor	48-TQFP	11.75	9.64	8.70
VSP1900DBT	296-15068-5-ND	CCD Vertical Driver for Digital Cameras	30-TSSOP	17.38	14.62	13.43
VSP2210Y	VSP2210Y-ND	10-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	24.30	20.66	19.14
VSP2212Y	VSP2212Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	29.60	25.16	23.31
VSP2230Y	VSP2230Y-ND	10-Bit Digital Camera CCD Signal Processor	48-LQFP	25.30	21.51	19.93
VSP2232Y	VSP2232Y-ND	12-Bit Digital Camera CCD Signal Processor	48-LQFP	33.60	28.56	26.46

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) CCD

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
VSP2254GSJ	296-14396-ND	36MHz, 2-Channel CCD Processor	96-BGA	34.50	29.33	27.17
VSP2260Y	VSP2260Y-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	15.84	13.32	12.24
VSP2260Y/2K	VSP2260YTR-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	15300.00/2,000		
VSP2262Y	VSP2262Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	24.10	20.49	18.98
VSP2262Y/2K	VSP2262YTR-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	26586.00/2,000		
VSP2270Y	296-12541-ND	28MHz CCD Signal Processor	48-LQFP	19.25	16.19	14.88
VSP2272Y	296-12542-ND	28MHz CCD Signal Processor	48-LQFP	25.80	21.93	20.32
VSP2560PTR	296-23846-1-ND	10-Bit CCD Analog Front End for Digital Camera	48-LQFP	10.20	8.47	7.70
VSP2562PT	296-23847-ND	12-Bit CCD Analog Front End for Digital Camera	48-LQFP	12.43	10.46	9.61
VSP2566PT	296-23848-ND	16-Bit CCD Analog Front End for Digital Camera	48-LQFP	21.80	18.53	17.17
VSP2582RHN	296-23849-ND	CCD Analog Front End for Digital Camera	36-QFN	9.50	7.79	7.03
VSP2590ZWVR	296-24637-1-ND	16-Bit, 41.5MHz, Analog Front-End* ***NEW!***	159-NFBGA	36.00	32.40	29.70
VSP2590ZWVR	296-24637-2-ND	16-Bit, 41.5MHz, Analog Front-End* ***NEW!***	159-NFBGA	23400.00/1,000		
VSP3010Y	VSP3010Y-ND	12-Bit, CCD/CIS Controller	48-LQFP	20.24	17.02	15.64
VSP3100Y	VSP3100Y-ND	14-Bit 10MHz CCD/CIS Signal Processor	48-LQFP	17.60	14.80	13.60
VSP3200Y	VSP3200Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	17.60	14.80	13.60
VSP3200Y/2K	VSP3200YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	16320.00/2,000		
VSP3210Y	VSP3210Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	21.01	17.67	16.24
VSP3210Y2/K	VSP3210YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	20400.00/2,000		
VSP5000PM	296-14235-5-ND	12-Bit, 30MHz CCD Signal Front End	64-LQFP	24.00	20.40	18.90
VSP5010PMR	296-24686-1-ND	12-Bit, CCD Analog Front End* ***NEW!***	64-LQFP	23.70	21.33	19.56
VSP5010PMR	296-24686-2-ND	12-Bit, CCD Analog Front End* ***NEW!***	64-LQFP	15405.00/1,000		

TEXAS INSTRUMENTS DigiReel® COMPARATORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
		General Purpose Comparators				
L293DNE	296-9518-5-ND	Quad Half-H Drivers	16-Dip	3.50	2.82	2.57
L293NE	296-9519-5-ND	Quad Half-H Drivers	16-Dip	3.50	2.82	2.57
LM139DG4	296-22032-5-ND	Quad Differential Comparator	14-SOIC	1.66	1.33	1.17
LM239DR	296-14590-1-ND	Quad Differential Comparator	14-SOIC	.55	.37	.30
LM239DR	296-14590-2-ND	Quad Differential Comparator	14-SOIC	312.50/2,500		
LM293AD	296-9530-5-ND	Dual Differential Comparator	8-SOIC	.45	.33	.29
LM293D	296-9531-5-ND	Dual Differential Comparator	8-SOIC	.57	.38	.31
LM293DR	296-12848-1-ND	Dual Differential Comparator	8-SOIC	.54	.36	.29
LM293DR	296-12848-2-ND	Dual Differential Comparator	8-SOIC	305.00/2,500		
LM293P	296-9532-5-ND	Dual Differential Comparator	8-Dip	.57	.38	.31
LM339AD	296-6604-5-ND	Quad Differential Comparator	14-SOIC	.58	.39	.32
LM339ADR	296-6604-1-ND	Quad Differential Comparator	14-SOIC	.55	.37	.30
LM339ADR	296-6604-2-ND	Quad Differential Comparator	14-SOIC	312.50/2,500		
LM339AN	296-6605-5-ND	Quad Differential Comparator	14-Dip	.49	.37	.31
LM339APWR	296-18454-1-ND	Quad Differential Comparator	14-TSSOP	.59	.39	.32
LM339APWR	296-18454-2-ND	Quad Differential Comparator	14-TSSOP	270.00/2,000		
LM339D	296-1013-5-ND	Quad Differential Comparator	14-SOIC	.53	.36	.29
LM339DR	296-1013-1-ND	Quad Differential Comparator	14-SOIC	.50	.33	.27
LM339DR	296-1013-2-ND	Quad Differential Comparator	14-SOIC	285.00/2,500		
LM339DBR	296-6606-1-ND	Quad Differential Comparator	14-SSOP	.54	.36	.29
LM339DBR	296-6606-2-ND	Quad Differential Comparator	14-SSOP	244.00/2,000		
LM339N	296-1393-5-ND	Quad Differential Comparator	14-Dip	.46	.34	.29
LM339PWR	296-6607-1-ND	Quad Diff. Comparator, A Grade	14-TSSOP	.54	.36	.30
LM339PWR	296-6607-2-ND	Quad Diff. Comparator, A Grade	14-TSSOP	248.00/2,000		
LM393AD	296-6608-5-ND	Dual Diff. Comparator, A Grade	8-SOIC	.51	.38	.33
LM393ADGKR	296-16807-1-ND	Dual Diff. Comparator, A Grade	8-MSOP	.50	.36	.31
LM393ADGKR	296-16807-2-ND	Dual Diff. Comparator, A Grade	8-MSOP	352.50/2,500		
LM393ADR	296-14605-1-ND	Dual Diff. Comparator, A Grade	8-SOIC	.50	.36	.31
LM393ADR	296-14605-2-ND	Dual Diff. Comparator, A Grade	8-SOIC	352.50/2,500		
LM393AP	296-6609-5-ND	Dual Diff. Comparator, A Grade	8-Dip	.55	.41	.35
LM393APWR	296-6610-1-ND	Dual Diff. Comparator, A Grade	8-TSSOP	.50	.36	.31
LM393APWR	296-6610-2-ND	Dual Diff. Comparator, A Grade	8-TSSOP	282.00/2,000		
LM393D	296-1015-5-ND	Dual Differential Comparator	8-SOIC	.52	.35	.28
LM393DGKR	296-16808-1-ND	Dual Differential Comparator	8-MSOP	.49	.32	.27
LM393DGKR	296-16808-2-ND	Dual Differential Comparator	8-MSOP	277.50/2,500		
LM393DR	296-1015-1-ND	Dual Differential Comparator	8-SOIC	.49	.32	.27
LM393DR	296-1015-2-ND	Dual Differential Comparator	8-SOIC	277.50/2,500		
LM393P	296-1398-5-ND	Dual Differential Comparator	8-Dip	.44	.33	.28
LM393PSR	296-9566-1-ND	Dual Differential Comparator	8-SOP	.54	.36	.29
LM393PSR	296-9566-2-ND	Dual Differential Comparator	8-SOP	244.00/2,000		
LM393PWR	296-14607-1-ND	Dual Differential Comparator	8-TSSOP	.54	.36	.30
LM393PWR	296-14607-2-ND	Dual Differential Comparator	8-TSSOP	248.00/2,000		
LM2901AVQDRG4Q1	296-24703-1-ND	Quad Differential Comp.* ***NEW!***	14-SOIC	.71	.55	.49
LM2901AVQDRG4Q1	296-24703-2-ND	Quad Differential Comp.* ***NEW!***	14-SOIC	582.50/2,500		
LM2901AVQDRQ1	296-18437-1-ND	Quad Differential Comparator	14-SOIC	.71	.55	.49
LM2901AVQDRQ1	296-18437-2-ND	Quad Differential Comparator	14-SOIC	582.50/2,500		
LM2901AVQPWR	296-21575-1-ND	Quad Differential Comparator	14-TSSOP	.69	.54	.48
LM2901AVQPWR	296-21575-2-ND	Quad Differential Comparator	14-TSSOP	456.00/2,000		
LM2901AVQPWRG4Q1	296-23883-1-ND	Quad Differential Comparator	14-TSSOP	.71	.55	.49
LM2901AVQPWRG4Q1	296-23883-2-ND	Quad Differential Comparator	14-TSSOP	466.00/2,000		
LM2901D	296-1385-5-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.57	.38	.31
LM2901DR	296-14593-1-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.53	.35	.29
LM2901DR	296-14593-2-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	300.00/2,500		
LM2901N	296-1386-5-ND	Quad Diff. Comparator, Ind. Temp.	14-Dip	.45	.34	.29
LM2901PWR	296-6597-1-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	.51	.34	.28
LM2901PWR	296-6597-2-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	240.00/2,000		
LM2901QDRG4Q1	296-24704-1-ND	Quad Differential Comp.* ***NEW!***	14-SOIC	.61	.43	.37
LM2901QDRG4Q1	296-24704-2-ND	Quad Differential Comp.* ***NEW!***	14-SOIC	430.00/2,500		
LM2901QDRQ1	296-17157-1-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	.61	.43	.37
LM2901QDRQ1	296-17157-2-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	430.00/2,500		
LM2901QPWRQ1	296-18438-1-ND	Quad Differential Comparator	14-TSSOP	.61	.43	.37
LM2901QPWRQ1	296-18438-2-ND	Quad Differential Comparator	14-TSSOP	344.00/2,000		
LM2901VQPWRG4	296-22033-1-ND	Quad Differential Comparator	14-TSSOP	.70	.49	.42
LM2901VQPWRG4	296-22033-2-ND	Quad Differential Comparator	14-TSSOP	394.00/2,000		
LM2901VQPWRG4Q1	296-25458-1-ND	Quad Diff. Comparator* ***NEW!***	14-TSSOP	.72	.51	.44
LM2901VQPWRG4Q1	296-25458-2-ND	Quad Diff. Comparator* ***NEW!***	14-TSSOP	406.00/2,000		
LM2901VQPWRQ1	296-21229-1-ND	Quad Differential Comparator	14-TSSOP	.72	.51	.44
LM2901VQPWRQ1	296-21229-2-ND	Quad Differential Comparator	14-TSSOP	406.00/2,000		
LM2903AVQDRQ1	296-18444-1-ND	Dual Differential Comparator	8-SOIC	.69	.54	.48
LM2903AVQDRQ1	296-18444-2-ND	Dual Differential Comparator	8-SOIC	570.00/2,500		

TEXAS INSTRUMENTS DigiReel® (Cont.) COMPARATORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LM2903AVQPWRG4Q1	296-25109-1-ND	Dual Diff. Comparator* ***NEW!***	8-TSSOP	.71	.55	.49
LM2903AVQPWRG4Q1	296-25109-2-ND	Dual Diff. Comparator* ***NEW!***	8-TSSOP	466.00/2,000		
LM2903D	296-1012-5-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.57	.38	.31
LM2903DGKR	296-16806-1-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	.53	.35	.29
LM2903DGKR	296-16806-2-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	300.00/2,500		
LM2903DR	296-1012-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.53	.35	.29
LM2903DR	296-1012-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	300.00/2,500		
LM2903P	296-6601-5-ND	Dual Diff. Comparator, Ind. Temp.	8-Dip	.45	.34	.29
LM2903PSR	296-17322-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	.58	.38	.32
LM2903PSR	296-17322-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	264.00/2,000		
LM2903PWR	296-6602-1-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	.53	.35	.29
LM2903PWR	296-6602-2-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	240.00/2,000		
LM2903QDRG4	296-22034-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.59	.42	.36
LM2903QDRG4	296-22034-2-ND	Dual Diff. Comparator, Ind.Temp.	8-SOIC	415.00/2,500		
LM2903QDRG4Q1	296-24706-1-ND	Dual Diff. Comparator* ***NEW!***	8-SOIC	.61	.43	.37
LM2903QDRG4Q1	296-24706-2-ND	Dual Diff. Comparator* ***NEW!***	8-SOIC	430.00/2,500		
LM2903QDRQ1	296-15183-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.61	.43	.37
LM2903QDRQ1	296-15183-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	430.00/2,500		
LM2903VQDRQ1	296-19541-1-ND	Dual Differential Comparator	8-SOIC	.72	.51	.44
LM2903VQDRQ1	296-19541-2-ND	Dual Differential Comparator	8-SOIC	507.50/2,500		
LM3302D	296-9546-5-ND	Quad Differential Comparator	14-SOIC	.96	.75	.65
LM3302DR	296-14598-1-ND	Quad Differential Comparator	14-SOIC	.88	.68	.60
LM3302N	296-17223-5-ND	Quad Differential Comparator	14-Dip	.88	.69	.60
LMV331QDBVRQ1	296-24709-1-ND	Single Low Voltage Comp.* ***NEW!***	SOT-23-5	.86	.67	.59
LMV331QDBVRQ1	296-24709-2-ND	Single Low Voltage Comp.* ***NEW!***	SOT-23-5	852.00/3,000		
LMV339IDR	296-6611-1-ND	Quad Low Voltage Comparator	14-SOIC	.99	.78	.71
LMV339IDR	296-6611-2-ND	Quad Low Voltage Comparator	14-SOIC	910.00/2,500		
LMV339IPWR	296-6612-1-ND	Quad Low Voltage Comparator	14-TSSOP	.99	.78	.71
LMV339IPWR	296-6612-2-ND	Quad Low Voltage Comparator	14-TSSOP	728.00/2,000		
TL331IDBVR	296-10168-1-ND	Single Differential Comparator	SOT-23-5	.72	.51	.43
TL331IDBVR	296-10168-2-ND	Single Differential Comparator	SOT-23-5	606.00/3,000		
TL331KDBVR	296-23863-1-ND	Single Differential Comparator	SOT-23-5	.72	.51	.43
TL331KDBVR	296-23863-2-ND	Single Differential Comparator	SOT-23-5	606.00/3,000		
TLC372CD	296-1327-5-ND	Dual Differential Comparator	8-SOIC	1.21	.97	.85
TLC372CDR	296-1327-1-ND	Dual Differential Comparator	8-SOIC	1.09	.87	.78
TLC372CDR	296-1327-2-ND	Dual Differential Comparator	8-SOIC	1007.50/2,500		
TLC372CP	296-1845-5-ND	Dual Differential Comparator	8-Dip	1.01	.81	.71
TLC372CPWR	296-10309-1-ND	Dual Differential Comparator	8-TSSOP	1.09	.87	.78
TLC372CPWR	296-10309-2-ND	Dual Differential Comparator	8-TSSOP	806.00/2,000		
TLC372ID	296-10310-5-ND	Dual Differential Comparator	8-SOIC	1.31	1.05	.92
TLC372IP	296-1846-5-ND	Dual Differential Comparator	8-Dip	1.11	.89	.78
TLC372MD	296-10311-5-ND	Dual Differential Comparator	8-SOIC	1.31	1.05	.92
TLC372QD	296-10312-5-ND	Dual Differential Comparator	8-SOIC	1.16	.93	.82
TLC372QDRG4	296-22049-1-ND	Dual Differential Comparator	8-SOIC	1.26	1.00	.90
TLC372QDRG4	296-22049-2-ND	Dual Differential Comparator	8-SOIC	1157.50/2,500		
TLC374CN	296-10313-5-ND	Quad Differential Comparator	14-Dip	1.26	1.01	.89
TLC374ID	296-10315-5-ND	Quad Differential Comparator	14-SOIC	1.55	1.25	1.13
TLC374IN	296-10316-5-ND	Quad Differential Comparator	14-Dip	1.39	1.11	.98
TLC374MD	296-10317-5-ND	Quad Differential Comparator	14-SOIC	1.55	1.25	1.13
TLV7211AIDBVR	296-21866-1-ND	CMOS Comparator	SOT-23-5	1.52	1.20	1.08
TLV7211AIDBVR	296-21866-2-ND	CMOS Comparator	SOT-23-5	1680.00/3,000		
TLV7211AIDCKR	296-21867-1-ND	CMOS Comparator	SC70-6	1.52	1.20	1.08
TLV7211AIDCKR	296-21867-2-ND	CMOS Comparator	SC70-6	1680.00/3,000		
TLV7211AIDR	296-21868-1-ND	CMOS Comparator	8-SOIC	1.52	1.20	1.08
TLV7211IDCKR	296-21870-1-ND	CMOS Comparator	SC70-6	1.14	.90	.81
TLV7211IDCKR	296-21870-2-ND	CMOS Comparator	SC70-6	1260.00/3,000		
TLV7211IDR	296-21871-1-ND	CMOS Comparator	8-SOIC	1.14	.90	.81
		High Speed Comparators				
LM139DR	296-6614-1-ND	Quad GP Differential Comparator	14-SOIC	1.75	1.39	1.25
LM139DR	296-6614-2-ND	Quad GP Differential Comparator	14-SOIC	1612.50/2,500		
LM193DR	296-6615-1-ND	Dual GP Differential Comparator	8-SOIC	.73	.57	.51
LM193DR	296-6615-2-ND	Dual GP Differential Comparator	8-SOIC	605.00/2,500		
LM211D	296-6616-5-ND	Differential Comparator with Strobe	8-SOIC	.57	.42	.36
LM211DR	296-14589-1-ND	Differential Comparator with Strobe	8-SOIC	.55	.39	.33
LM211DR	296-14589-2-ND	Differential Comparator with Strobe	8-SOIC	387.50/2,500		
LM211MDREP	296-22162-1-ND	Differential Comparator with Strobe	8-SOIC	1.75	1.35	1.23
LM211MDREP	296-22162-2-ND	Differential Comparator with Strobe	8-SOIC	1687.50/2,500		
LM211P	296-6617-5-ND	Differential Comparator with Strobe	8-Dip	.52	.39	.33
LM211QD	296-9520-5-ND	Differential Comparator with Strobe	8-SOIC	.64	.50	.44
LM211QDRG4Q1	296-24702-1-ND	Diff. Comp. with Strobe* ***NEW!***	8-SOIC	.95	.74	.65
LM211QDRG4Q1	296-24702-2-ND	Diff. Comp. with Strobe* ***NEW!***	8-SOIC	780.00/2,500		
LM211QDRQ1	296-17493-1-ND	Differential Comparator with Strobe	8-SOIC	.95	.74	.65
LM211QDRQ1	296-17493-2-ND	Differential Comparator with Strobe	8-SOIC	780.00/2,500		
LM239ADR	296-6618-1-ND	Quad GP Differential Comparator	14-SOIC	.59	.39	.32
LM239ADR	296-6618-2-ND	Quad GP Differential Comparator	14-SOIC	337.50/2,500		
LM239AQDREP	296-18100-1-ND	Quad GP Differential Comparator	14-SOIC	1.41	1.11	1.00
LM239D	296-6620-5-ND	Quad GP Differential Comparator	14-SOIC	.51	.38	.33
LM239N	296-6621-5-ND	Quad GP Differential Comparator	14-Dip	.43	.32	.27
LM239PWR	296-15084-1-ND	Quad GP Differential Comparator	14-TSSOP	.59	.39	.32
LM239PWR	296-15084-2-ND	Quad GP Differential Comparator	14-TSSOP	270.00/2,000		
LM293ADGKR	296-17218-1-ND	Dual Differential Comparator	8-MSOP	.58	.38	.32
LM293ADGKR	296-17218-2-ND	Dual Differential Comparator	8-MSOP	330.00/2,500		
LM306D	296-9533-5-ND	Differential Comparator with Strobe	8-SOIC	2.02	1.63	1.47
LM306P	296-1387-5-ND	Differential Comparator with Strobe	8-Dip	1.86	1.50	1.35
LM311D	296-1388-5-ND	Differential Comparator with Strobe	8-SOIC	.57	.42	.36
LM311DR	296-1388-1-ND	Differential Comparator with Strobe	8-SOIC	.55	.39	.33
LM311DR	296-1388-2-ND	Differential Comparator with Strobe	8-SOIC	387.50/2,500		
LM311P	296-1389-5-ND	Differential Comparator with Strobe	8-Dip	.62	.46	.39
LM311PWR	296-13719-1-ND	Differential Comparator with Strobe	8-TSSOP	.55	.39	.33
LM311PWR	296-13719-2-ND	Differential Comparator with Strobe	8-TSSOP	310.00/2,000		
TL712CD	296-6629-5-ND	Differential Comparator	8-SOIC	2.02	1.63	1.47
TL712CP	296-6630-5-ND	Differential Comparator	8-Dip	2.17	1.75	1.58
TL714CD	296-6631-5-ND	High Speed Differential Comparator	8-SOIC	4.48	3.60	3.28
TL714CP	296-6632-5-ND	High Speed Differential Comparator	8-Dip	4.90	3.94	3.59
TL3016CD	296-1793-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.94	2.37	2.16
TL3016ID	296-1794-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	3.16	2.55	2.32
TL3016IPW	296-13615-5-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	3.16	2.55	2.32
TL3116CD	296-6626-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.94	2.37	2.16
TL3116CPWR	296-6627-1-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	3.08	2.38	2.16
TL3116ID	296-6628-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	3.16	2.55	2.32
TLV3501AIDBVT	296-18248-1-ND	4.5nS R/R HS Comparator	SOT-23-6	5.25	4.29	3.85
TLV3501AIDBVT	296-18248-2-ND	4.5nS R/R HS Comparator	SOT-23-6	809.50/250		

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) COMPARATORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV3502AID	296-18301-5-ND	4.5nS R/R HS Comparator	8-SOIC	6.63	5.44	4.91
TPD4S010DQAR	296-24177-1-ND	4-Channel ESD Solution* ***NEW!***	10-SON	.92	.72	.63
TPD4S010DQAR	296-24177-2-ND	4-Channel ESD Solution* ***NEW!***	10-SON	913.50/3,000		
Low Power Comparators						
LMV331IDBVR	296-6633-1-ND	Single GP Low Voltage Comparator	SOT-23-5	.75	.58	.51
LMV331IDBVR	296-6633-2-ND	Single GP Low Voltage Comparator	SOT-23-5	741.00/3,000		
LMV331IDCKR	296-6634-1-ND	Single GP Low Voltage Comparator	SC70-5	.75	.58	.51
LMV331IDCKR	296-6634-2-ND	Single GP Low Voltage Comparator	SC70-5	741.00/3,000		
LMV393IDDUR	296-17028-1-ND	Dual Low Voltage Comparator	8-VSSOP	.88	.68	.60
LMV393IDDUR	296-17028-2-ND	Dual Low Voltage Comparator	8-VSSOP	870.00/3,000		
LMV393IDGKR	296-13993-1-ND	Dual GP Low Voltage Comparator	8-MSOP	.88	.68	.60
LMV393IDGKR	296-13993-2-ND	Dual GP Low Voltage Comparator	8-MSOP	725.00/2,500		
LMV393IDR	296-6635-1-ND	Dual GP Low Voltage Comparator	8-SOIC	.88	.68	.60
LMV393IDR	296-6635-2-ND	Dual GP Low Voltage Comparator	8-SOIC	725.00/2,500		
LMV393IPWR	296-6636-1-ND	Dual GP Low Voltage Comparator	8-TSSOP	.88	.68	.60
LMV393IPWR	296-6636-2-ND	Dual GP Low Voltage Comparator	8-TSSOP	580.00/2,000		
LMV393QDRQ1	296-25111-1-ND	Dual GP Low Voltage Comparator* ***NEW!***	8-SOIC	1.01	.79	.69
LMV393QDRQ1	296-25111-2-ND	Dual GP Low Voltage Comparator* ***NEW!***	8-SOIC	835.00/2,500		
LP211D	296-9573-5-ND	Differential Comparator	8-SOIC	1.55	1.25	1.09
LP2901D	296-9574-5-ND	Quad Differential Comparator	14-SOIC	.78	.61	.53
LP2901N	296-9575-5-ND	Quad Differential Comparator	14-Dip	.72	.56	.49
LP311D	296-9576-5-ND	Differential Comparator	8-SOIC	1.55	1.25	1.09
LP311DR	296-14608-1-ND	Differential Comparator	8-SOIC	1.41	1.11	1.00
LP311P	296-9577-5-ND	Differential Comparator	8-Dip	1.42	1.14	1.00
LP339D	296-9578-5-ND	Quad Differential Comparator	14-SOIC	.72	.56	.49
LP339DR	296-14609-1-ND	Quad Differential Comparator	14-SOIC	.66	.51	.45
LP339DR	296-14609-2-ND	Quad Differential Comparator	14-SOIC	543.75/2,500		
LP339N	296-9579-5-ND	Quad Differential Comparator	14-Dip	.66	.52	.45
TLC339CD	296-10281-5-ND	Quad Differential Comparator	14-SOIC	1.55	1.25	1.13
TLC339CN	296-12312-5-ND	Quad Differential Comparator	14-Dip	1.39	1.11	.98
TLC339ID	296-1324-5-ND	Quad Differential Comparator	14-SOIC	1.71	1.38	1.24
TLC339IDR	296-1324-1-ND	Quad Differential Comparator	14-SOIC	1.76	1.39	1.25
TLC339IDR	296-1324-2-ND	Quad Differential Comparator	14-SOIC	1617.50/2,500		
TLC339IN	296-10283-5-ND	Quad Differential Comparator	14-Dip	1.62	1.30	1.14
TLC339MN	296-10284-5-ND	Quad Differential Comparator	14-Dip	1.71	1.38	1.24
TLC352IPW	296-17476-5-ND	Dual Differential Comparator	8-TSSOP	1.55	1.25	1.13
TLC372IDR	296-26755-1-ND	Dual Differential Comp.* ***NEW!***	8-SOIC	1.20	.96	.86
TLC372IDR	296-26755-2-ND	Dual Differential Comp.* ***NEW!***	8-SOIC	1110.00/2,500		
TLC374CD	296-1328-5-ND	Quad Differential Comparator	14-SOIC	1.62	1.30	1.14
TLC374CDR	296-1328-1-ND	Quad Differential Comparator	14-SOIC	1.37	1.08	.98
TLC374CDR	296-1328-2-ND	Quad Differential Comparator	14-SOIC	1260.00/2,500		
TLC393CD	296-1329-5-ND	Dual Voltage Comparator	8-SOIC	1.13	.91	.80
TLC393CDR	296-1329-1-ND	Dual Voltage Comparator	8-SOIC	1.03	.81	.73
TLC393CDR	296-1329-2-ND	Dual Voltage Comparator	8-SOIC	945.00/2,500		
TLC393CP	296-1849-5-ND	Dual Voltage Comparator	8-Dip	.95	.76	.67
TLC393CPWR	296-10318-1-ND	Dual Voltage Comparator	8-TSSOP	1.03	.81	.73
TLC393CPWR	296-10318-2-ND	Dual Voltage Comparator	8-TSSOP	756.00/2,000		
TLC393ID	296-1330-5-ND	Dual Voltage Comparator	8-SOIC	1.23	.99	.86
TLC393IDR	296-1330-1-ND	Dual Voltage Comparator	8-SOIC	1.13	.90	.81
TLC393IDR	296-1330-2-ND	Dual Voltage Comparator	8-SOIC	1040.00/2,500		
TLC393IP	296-10320-5-ND	Dual Voltage Comparator	8-Dip	1.04	.84	.73
TLC393IPWR	296-10321-1-ND	Dual Voltage Comparator	8-TSSOP	1.13	.90	.81
TLC393IPWR	296-10321-2-ND	Dual Voltage Comparator	8-TSSOP	832.00/2,000		
TLC393QDRQ1	296-17501-1-ND	Dual Voltage Comparator	8-SOIC	1.20	.95	.86
TLC393QDRQ1	296-17501-2-ND	Dual Voltage Comparator	8-SOIC	1102.50/2,500		
TLC3702CD	296-1325-5-ND	Dual Voltage Comparator	8-SOIC	1.17	.94	.83
TLC3702CDR	296-1325-1-ND	Dual Voltage Comparator	8-SOIC	1.06	.84	.76
TLC3702CDR	296-1325-2-ND	Dual Voltage Comparator	8-SOIC	977.50/2,500		
TLC3702CP	296-1841-5-ND	Dual Voltage Comparator	8-Dip	.98	.79	.69
TLC3702ID	296-1326-5-ND	Dual Voltage Comparator	8-SOIC	1.27	1.02	.89
TLC3702IDR	296-1326-1-ND	Dual Voltage Comparator	8-SOIC	1.17	.93	.83
TLC3702IDR	296-1326-2-ND	Dual Voltage Comparator	8-SOIC	1075.00/2,500		
TLC3702IP	296-10300-5-ND	Dual Voltage Comparator	8-Dip	1.07	.86	.76
TLC3702IPW	296-10301-5-ND	Dual Voltage Comparator	8-TSSOP	1.27	1.02	.89
TLC3702MD	296-12188-5-ND	Dual Voltage Comparator	8-SOIC	1.27	1.02	.89
TLC3702MDREP	296-18142-1-ND	Dual Voltage Comparator	8-SOIC	3.29	2.54	2.31
TLC3702MDREP	296-18142-2-ND	Dual Voltage Comparator	8-SOIC	3172.50/2,500		
TLC3704CD	296-10302-5-ND	Quad Voltage Comparator	14-SOIC	1.62	1.30	1.14
TLC3704CN	296-10303-5-ND	Quad Voltage Comparator	14-Dip	1.32	1.06	.93
TLC3704CNS	296-10304-5-ND	Quad Voltage Comparator	14-SOP	1.62	1.30	1.14
TLC3704CPWR	296-10305-1-ND	Quad Voltage Comparator	14-TSSOP	1.44	1.14	1.03
TLC3704CPWR	296-10305-2-ND	Quad Voltage Comparator	14-TSSOP	1058.00/2,000		
TLC3704ID	296-1843-5-ND	Quad Voltage Comparator	14-SOIC	1.55	1.25	1.13
TLC3704IN	296-10306-5-ND	Quad Voltage Comparator	14-Dip	1.46	1.17	1.02
TLC3704IPW	296-10307-5-ND	Quad Voltage Comparator	14-TSSOP	1.55	1.25	1.13
TLC3704MD	296-10308-5-ND	Quad Voltage Comparator	14-SOIC	1.55	1.25	1.13
TLC3704QDRQ1	296-17830-1-ND	Quad Voltage Comparator	14-SOIC	1.76	1.39	1.25
TLC3704QDRQ1	296-17830-2-ND	Quad Voltage Comparator	14-SOIC	1617.50/2,500		
TLV2702ID	296-12503-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-SOIC	3.08	2.48	2.26
TLV2702IDGK	296-13370-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-MSOP	3.64	2.93	2.67
TLV3011AIDCKT	296-17117-1-ND	Nanopower 1.8V Comparator	SC70-6	3.15	2.43	2.21
TLV3011AMDBVREP	296-22429-1-ND	Nanopower 1.8V Comparator	SOT-23-6	5.73	4.68	4.21
TLV3012AIDBVT	296-16830-1-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	3.15	2.43	2.21
TLV3012AIDBVT	296-16830-2-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	450.00/250		
TLV3401IDBVR	296-13376-1-ND	Nanopower OD Output Comparator	SOT-23-5	2.28	1.76	1.60
TLV3401IDBVR	296-13376-2-ND	Nanopower OD Output Comparator	SOT-23-5	2634.00/3,000		
TLV3401IDR	296-10707-1-ND	Nanopower OD Output Comparator	8-SOIC	2.28	1.76	1.60
TLV3401IP	296-12042-5-ND	Nanopower OD Output Comparator	8-Dip	2.02	1.63	1.47
TLV3402IP	296-12043-5-ND	Dual Open Drain Output Comparator	8-Dip	2.79	2.25	2.03
TLV3402IDGKR	296-10708-1-ND	Dual Nanopower Comparator	8-MSOP	3.15	2.43	2.21
TLV3402IDGKR	296-10708-2-ND	Dual Nanopower Comparator	8-MSOP	3037.50/2,500		
TLV3402IDR	296-10709-1-ND	Dual Nanopower Comparator	8-SOIC	3.15	2.43	2.21
TLV3402IDR	296-10709-2-ND	Dual Nanopower Comparator	8-SOIC	3037.50/2,500		
TLV3404IN	296-12044-5-ND	Quad OD Output Comparator	14-Dip	3.22	2.59	2.36
TLV3501AID	296-17921-5-ND	4.5nS R/R High Speed Comparator	8-SOIC	5.04	4.05	3.69
TLV3502AIDCNT	296-18147-1-ND	4.5nS R/R High Speed Comparator	SOT-23-8	6.76	5.61	5.10
TLV3701CDBVT	296-13377-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	2.45	1.89	1.72
TLV3701CDBVT	296-13377-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	350.00/250		

TEXAS INSTRUMENTS DigiReel® (Cont.) COMPARATORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV3701ID	296-12608-5-ND	Nanopower Push-Pull Output Comp.	8-SOIC	2.33	1.88	1.69
TLV3701IDBVT	296-13378-1-ND	Nanopower Push-Pull Output Comp.	SOT-23-5	2.63	2.03	1.84
TLV3701IDBVT	296-13378-2-ND	Nanopower Push-Pull Output Comp.	SOT-23-5	375.00/250		
TLV3701IP	296-13379-5-ND	Nanopower Push-Pull Output Comp.	8-Dip	2.02	1.63	1.47
TLV3701QDBVREP	296-22430-1-ND	Nanopower Push-Pull Output Comp.	SOT-23-5	3.08	2.38	2.16
TLV3701QDBVRQ1	296-16957-1-ND	Nanopower Push-Pull Output Comp.	SOT-23-5	2.45	1.89	1.72
TLV3701QDBVRQ1	296-16957-2-ND	Nanopower Push-Pull Output Comp.	SOT-23-5	2835.00/3,000		
TLV3702ID	296-12609-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	2.94	2.37	2.16
TLV3702IP	296-13380-5-ND	Dual Nanopower Push-Pull Output Comparator	8-Dip	2.79	2.25	2.03
TLV3702IDGK	296-12610-5-ND	Dual Nanopower Push-Pull Output Comparator	8-MSOP	2.94	2.37	2.16
TLV3702QDRQ1	296-16958-1-ND	Nanopower Push-Pull Output Comp.	8-SOIC	3.33	2.57	2.33
TLV3704IN	296-12611-5-ND	Quad Nanopower Push-Pull Comp.	14-Dip	3.22	2.59	2.36
TLV3704IPW	296-12400-5-ND	Quad Nanopower Push-Pull Comp.	14-TSSOP	3.78	3.04	2.77
Low Voltage Comparators						
TLC352CD	296-1839-5-ND	Dual Differential Comparator	8-SOIC	1.62	1.30	1.14
TLC352CP	296-10285-5-ND	Dual Differential Comparator	8-Dip	1.26	1.01	.89
TLC352ID	296-10286-5-ND	Dual Differential Comparator	8-SOIC	1.55	1.25	1.13
TLC352IP	296-10287-5-ND	Dual Differential Comparator	8-Dip	1.39	1.11	.98
TLC354CD	296-10292-5-ND	Quad Differential Comparator	14-SOIC	1.71	1.38	1.24
TLC354CN	296-10293-5-ND	Quad Differential Comparator	14-Dip	1.71	1.38	1.24
TLC354CPW	296-10294-5-ND	Quad Differential Comparator	14-TSSOP	2.08	1.68	1.51
TLC354ID	296-10295-5-ND	Quad Differential Comparator	14-SOIC	2.20	1.78	1.60
TLV1391CDBVR	296-10492-1-ND	Differential Comparator	SOT-23-5	.95	.75	.68
TLV1391CDBVR	296-10492-2-ND	Differential Comparator	SOT-23-5	1050.00/3,000		
TLV2352ID	296-10517-5-ND	Dual Differential Comparator	8-SOIC	2.79	2.25	2.03
TLV2352IP	296-10518-5-ND	Dual Differential Comparator	8-Dip	2.36	1.90	1.71
TLV2352IPWR	296-10519-1-ND	Dual Differential Comparator	8-TSSOP	2.66	2.06	1.87
TLV2352IPWR	296-10519-2-ND	Dual Differential Comparator	8-TSSOP	2052.00/2,000		
TLV2354ID	296-10520-5-ND	Quad Differential Comparator	14-SOIC	3.86	3.11	2.83
TLV2354IN	296-10521-5-ND	Quad Differential Comparator	14-Dip	3.33	2.68	2.44

TEXAS INSTRUMENTS DigiReel® DATA COMMUNICATIONS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Central Office CODEC						
TP3054BDW	296-10784-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.42	2.75	2.51
TP3056BN	296-10786-5-ND	PCM CODEC/Filter (A-law and u-law)	16-Dip	3.56	2.86	2.61
TP3057ADW	296-10787-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.42	2.75	2.51
TP3057AN	296-10788-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.42	2.75	2.51
TP3057BDW	296-10789-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.42	2.75	2.51
TP3057BN	296-10790-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.42	2.75	2.51
TP3067AN	296-10794-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.42	2.75	2.51
TP3067BN	296-10796-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.42	2.75	2.51
TP13057BDW	296-10777-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.84	3.09	2.81
TP13057BN	296-10778-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.84	3.09	2.81
TP13064BDW	296-10779-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	3.31	2.67	2.43
TP13067BN	296-10781-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.84	3.09	2.81
IrDA						
TIR1000IPWR	296-6574-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	3.45	2.82	2.53
TIR1000IPWR	296-6574-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	3059.00/2,000		
TIR1000PSR	296-6572-1-ND	Standalone IrDA Encoder/Decoder	8-SOP	3.43	2.65	2.41
TIR1000PSR	296-6572-2-ND	Standalone IrDA Encoder/Decoder	8-SOP	2646.00/2,000		
TIR1000PWR	296-6573-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	3.43	2.65	2.41
TIR1000PWR	296-6573-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2646.00/2,000		
Ring Controllers						
UCC2750DW	296-2602-5-ND	Source Ringer Controller	28-SOIC	22.60	19.21	17.80
UCC2752D	296-2604-5-ND	Resonant Ring Generator Cont	16-SOIC	6.58	5.29	4.82
UCC3750N	296-11454-5-ND	Source Ringer Controller	28-Dip	18.26	15.36	14.11
UCC3750DW	296-2605-5-ND	Source Ringer Controller	28-SOIC	18.26	15.36	14.11
SONET Transceivers						
SLK2501IPZP	296-12281-ND	OC-48 SONET/SDH Multirate Transcvr.	100-HTQFP	75.82	67.78	64.33
SLK2511AIPZP	296-16997-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	75.82	67.78	64.33
SLK2511BPZP	296-21543-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	62.48	55.13	52.37
SLK2511CPZP	296-24116-ND	Sonet/SDH Multirate Transceiver*	100-HTQFP	62.48	55.13	52.37
SLK2511IPZP	296-13035-5-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	75.82	67.78	64.33
SLK2701IPZP	296-12543-ND	2.7Gbps SONET/SDH Multirate Xcvr.	100-HTQFP	75.82	67.78	64.33
SLK2721IPZP	296-13036-5-ND	Sonet/SDH Multirate Transceiver with Enhanced Jitter Tolerance	100-HTQFP	62.48	55.13	52.37
UARTs						
TL16C450FN	296-10145-5-ND	Async. Communication Element	44-PLCC	5.04	4.05	3.69
TL16C451FN	296-10146-5-ND	Async. Communication Element	68-PLCC	9.25	7.59	6.85
TL16C452FN	296-10147-5-ND	Dual Async. Communication Element	68-PLCC	7.63	6.26	5.65
TL16C554AIPNR	296-26703-1-ND	Async. Communication Element* ***NEW!***	80-LQFP	12.46	10.34	9.40
TL16C554AIPNR	296-26703-2-ND	Async. Communication Element* ***NEW!***	80-LQFP	6345.00/1,000		
TL16C554IPN	296-26705-ND	Async. Communication Element* ***NEW!***	80-LQFP	14.96	12.58	11.56
TL16C550CFN	296-10153-5-ND	Async. Communication Element	44-PLCC	6.44	5.18	4.72
TL16C550CIFN	296-10154-5-ND	Async. Communication Element	44-PLCC	6.25	5.13	4.63
TL16C550CIPT	296-1786-5-ND	Async. Communication Element	48-LQFP	6.16	4.95	4.51
TL16C550CPFB	296-10156-ND	Async. Communication Element	48-TQFP	5.60	4.50	4.10
TL16C550CPT	296-1787-ND	Async. Communication Element	48-LQFP	5.60	4.50	4.10
TL16C550CPTR	296-1787-1-ND	Async. Communication Element	48-LQFP	4.95	4.05	3.63
TL16C550CPTR	296-1787-2-ND	Async. Communication Element	48-LQFP	2310.00/1,000		
TL16C550DIPFB	296-21519-ND	Async. Communication Element	48-TQFP	4.65	3.74	3.41
TL16C550DIPT	296-16981-ND	Async. Communication Element	48-LQFP	4.65	3.74	3.41
TL16C550DIRHB	296-17676-ND	Async. Communication Element	32-VQFN	4.65	3.74	3.41
TL16C550DPFB	296-18722-ND	Async. Communication Element	48-TQFP	4.26	3.42	3.12
TL16C550DPT	296-21520-ND	Async. Communication Element	48-LQFP	4.26	3.42	3.12
TL16C550DRHB	296-17677-ND	Async. Communication Element	32-VQFN	4.26	3.42	3.12
TL16C552AFN	296-1788-5-ND	Dual Async. Communication	68-PLCC	9.75	8.00	7.22
TL16C552AFNR	296-1788-1-ND	Dual Async. Communication	68-PLCC	10.34	8.58	7.80
TL16C552AFNR	296-1788-2-ND	Dual Async. Communication	68-PLCC	1657.50/250		
TL16C552AIFN	296-10159-5-ND	Dual Async. Communication	68-PLCC	10.25	8.41	7.59
TL16C552APN	296-10160-ND	Dual Async. Communication	80-LQFP	9.00	7.38	6.66
TL16C552FN	296-10161-5-ND	Dual Async. Communications Element* ***NEW!***	68-PLCC	12.25	10.05	9.07

** RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA COMMUNICATIONS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL16C554AFN	296-6587-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	12.54	10.55	9.69
TL16C554AIPN	296-24381-ND	Async. Comm. Element* ***NEW!***	80-LQFP	12.32	10.36	9.52
TL16C554APN	296-6588-5-ND	Quad UART with 16-Byte FIFO	80-LQFP	11.88	9.99	9.18
TL16C554IFN	296-6589-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	15.62	13.14	12.07
TL16C750FN	296-2647-5-ND	64-Byte FIFO UART	44-PLCC	11.63	9.54	8.61
TL16C750IPM	296-6591-ND	Async. Communications Element	64-LQFP	11.25	9.23	8.33
TL16C750PM	296-6592-5-ND	Async. Communications Element	64-LQFP	10.88	8.92	8.05
TL16C752BLPTREP	296-22406-1-ND	Dual UART with 64-Byte FIFO	48-LQFP	11.59	9.83	9.08
TL16C752BPT	296-2648-ND	Dual UART with 64-Byte FIFO	48-LQFP	7.48	6.13	5.54
TL16C752CIPFB	296-24316-ND	Dual UART with 64-Byte FIFO* ***NEW!***	48-TQFP	7.75	6.36	5.74
TL16C752CIRHBR	296-23535-1-ND	Dual UART with 64-Byte FIFO	32-QFN	6.89	5.72	5.20
TL16C752CIRHBR	296-23535-2-ND	Dual UART with 64-Byte FIFO	32-QFN	10140.00/3,000		
TL16C752CPFB	296-24317-ND	Dual UART with 64-Byte FIFO* ***NEW!***	48-LQFP	7.25	5.95	5.37
TL16C754BFN	296-2650-5-ND	Quad 64-Byte FIFO UART	68-PLCC	18.50	15.56	14.30
TL16C754BPN	296-6593-5-ND	Quad UART with 64-Byte FIFO	80-LQFP	17.86	15.03	13.81
TL16C2550IPFB	296-21517-ND	1.8V to 5V Dual UART with 16-Byte FIFO	48-TQFP	6.78	5.56	5.02
TL16C2550IRHB	296-21518-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	32-VQFN	6.78	5.56	5.02
TL16C2550PFB	296-18721-ND	1.8V to 5V Dual UART with 16-Byte FIFO	48-TQFP	6.30	5.17	4.67
TL16C2550RHB	296-20708-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	32-VQFN	6.30	5.17	4.67
TL16C2552FN	296-19881-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	44-PLCC	8.33	6.83	6.17
TL16C2552IFN	296-21967-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	44-PLCC	8.80	7.22	6.52
TL16C2752FN	296-21988-5-ND	1.8V to 5V Dual UART	44-PLCC	9.75	8.00	7.22
TL16C2752IFN	296-21989-5-ND	1.8V to 5V Dual UART	44-PLCC	10.23	8.39	7.57
TL16CP754CIPM	296-23061-ND	Quad UART with 64-Byte FIFO	64-LQFP	15.47	13.01	11.96
TL16CP754CPM	296-23062-ND	Quad UART with 64-Byte FIFO	64-LQFP	15.05	12.66	11.63
TL16PC564BLVPZ	296-2651-ND	PCMCIA UART	100-LQFP	11.63	9.78	8.99
TL16PC564BPZ	296-6594-5-ND	Single UART with 64-Byte FIFO, PCMCIA Interface	100-LQFP	16.17	13.60	12.50
TL16PIR552PH	296-6595-5-ND	Dual UART with 16-Byte FIFO, Selectable IR and 1284 Modes	80-QFP	16.83	14.16	13.01
TL28L92FR	296-24382-ND	Dual UART with 16-Byte FIFO ***NEW!***	44-QFP	13.20	11.10	10.20
TL28L92IFR	296-24664-ND	Dual UART with 16-Byte FIFO ***NEW!***	44-QFP	13.64	11.47	10.54
USB						
TUSB1105RGTR	296-21921-1-ND	Advanced USB Transceiver	16-VQFN	1.93	1.49	1.35
TUSB1105RGTR	296-21921-2-ND	Advanced USB Transceiver	16-VQFN	2227.50/3,000		
TUSB1106RGTR	296-21924-1-ND	Advanced USB Transceiver	16-VQFN	1.93	1.49	1.35
TUSB1106RSVR	296-24803-1-ND	Advanced USB Transceiver* ***NEW!***	16-UQFN	1.93	1.49	1.35
TUSB1106RSVR	296-24803-2-ND	Advanced USB Transceiver* ***NEW!***	16-UQFN	2227.50/3,000		
TUSB2036VF	296-11086-ND	2/3-Port USB Hub	32-LQFP	3.92	3.15	2.87
TUSB2036VFG4	296-17784-ND	2/3-Port USB Hub	32-LQFP	3.92	3.15	2.87
TUSB2036VFR	296-27129-1-ND	2/3-Port USB Hub* ***NEW!***	32-LQFP	3.45	2.82	2.53
TUSB2036VFR	296-27129-2-ND	2/3-Port USB Hub* ***NEW!***	32-LQFP	1610.00/1,000		
TUSB2046BIRHBR	296-21926-1-ND	4-Port USB Hub	32-VQFN	4.05	3.31	2.97
TUSB2046BIRHBR	296-21926-2-ND	4-Port USB Hub	32-VQFN	5388.00/3,000		
TUSB2046BIVFR	296-11087-1-ND	4-Port USB Hub	32-LQFP	3.84	3.14	2.82
TUSB2046BIVFR	296-11087-2-ND	4-Port USB Hub	32-LQFP	1792.00/1,000		
TUSB2046BIVFRG4	296-23485-1-ND	4-Port USB Hub	32-LQFP	3.84	3.14	2.82
TUSB2046BIVFRG4	296-23485-2-ND	4-Port USB Hub	32-LQFP	1792.00/1,000		
TUSB2046BVF	296-11088-ND	4-Port USB Hub	32-LQFP	4.06	3.27	2.98
TUSB2077APT	296-11089-ND	7-Port USB Hub	48-LQFP	6.58	5.29	4.82
TUSB2136PM	296-11090-ND	2-Port USB Hub	64-LQFP	10.25	8.41	7.59
TUSB2551ARGTR	296-24834-1-ND	Advanced USB Transceiver* ***NEW!***	16-QFN	1.93	1.49	1.35
TUSB2551ARGTR	296-24834-2-ND	Advanced USB Transceiver* ***NEW!***	16-QFN	2227.50/3,000		
TUSB2551PWR	296-23557-1-ND	Advanced USB Transceiver	14-TSSOP	1.79	1.38	1.25
TUSB3200ACPAH	296-12289-5-ND	USB Streaming Controller	52-TQFP	11.13	9.13	8.24
TUSB3200CPAH	296-11091-ND	USB Streaming Controller	52-TQFP	9.50	7.79	7.03
TUSB3210PM	296-11092-ND	Universal Serial Bus Controller	64-LQFP	7.88	6.46	5.83
TUSB3410IRHB	296-23092-5-ND	USB-to-Serial Port Controller	32-VQFN	7.38	6.05	5.46
TUSB3410IVF	296-16757-ND	USB-to-Serial Port Controller	32-LQFP	7.38	6.05	5.46
TUSB3410RHB	296-23093-5-ND	USB-to-Serial Port Controller	32-VQFN	6.75	5.54	5.00
TUSB3410UARTPDK	296-18080-ND	Product Design Kit for TUSB3410	—	101.00	—	—
TUSB5052PZ	296-12525-ND	5-Port USB Hub Controller	100-LQFP	10.90	8.94	8.07
TUSB6015IZQE	296-23727-ND	USB 2.0 HS Peripheral Cont.	80-BGA	12.91	10.86	9.98
TUSB6020PDK	296-23581-ND	Evaluation Board for TUSB6020	—	203.00	—	—
TUSB6020PFC	296-23827-ND	USB 2.0 High Speed On-the-Go Dual Role Controller	80-TQFP	15.84	13.32	12.24
TUSB6020ZQE	296-23173-ND	USB 2.0 High Speed On-the-Go Dual Role Controller	80-BGA	15.84	13.32	12.24
TUSB6250PFC	296-19024-ND	USB 2.0 High Speed Capable Function Controller	80-TQFP	7.00	5.74	5.18
USB Transient Suppression						
SN65220DBVR	296-9694-1-ND	Single USB Port Transient Suppressor	SOT-23-6	1.07	.83	.73
SN65220DBVR	296-9694-2-ND	Single USB Port Transient Suppressor	SOT-23-6	1056.00/3,000		
SN65220DBVT	296-2341-1-ND	Single USB Port Transient Suppressor	SOT-23-6	1.06	.84	.76
SN65220DBVT	296-2341-2-ND	Single USB Port Transient Suppressor	SOT-23-6	150.00/250		
SN75240P	296-6596-5-ND	Dual USB Port Transient Suppressor	8-Dip	1.47	1.18	1.04
SN75240PWR	296-6596-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.33	1.06	.95
SN75240PWR	296-6596-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	982.00/2,000		
SN65240P	296-9695-5-ND	Dual USB Port Transient Suppressor	8-Dip	1.47	1.18	1.04
SN65240PW	296-9696-5-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.47	1.18	1.04
SN65240PWR	296-9696-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	1.33	1.06	.95
SN65240PWR	296-9696-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	982.00/2,000		
Video Decoder / Encoder						
TVP5145PFP	296-13021-5-ND	Digital Video Decoder with Macrovision Detection	80-HTQFP	15.42	12.97	11.92
TVP5146M2IPFP	296-23416-ND	Single Chip Digital Video Decoder	80-HTQFP	10.00	8.20	7.40
TVP5146M2PFP	296-18306-ND	Single Chip Digital Video Decoder	80-HTQFP	8.25	6.77	6.11
TVP5146PFP	296-16649-ND	Digital Video Decoder	80-HTQFP	8.50	6.97	6.29
TVP5147M1IPFP	296-23337-ND	Single Chip Digital Video Decoder	80-HTQFP	8.88	7.28	6.57
TVP5147M1PFP	296-18307-ND	Single Chip Digital Video Decoder	80-HTQFP	7.38	6.05	5.46
TVP5147M1PFPR	296-27132-1-ND	Single Chip Digital Video Decoder* ***NEW!***	80-HTQFP	7.82	6.49	5.90
TVP5147M1PFPR	296-27132-2-ND	Single Chip Digital Video Decoder* ***NEW!***	80-HTQFP	3983.00/1,000		
TVP5147PFP	296-16763-ND	Digital Video Decoder	80-HTQFP	7.75	6.36	5.74
TVP5150AM1IPBSR	296-23025-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	7.16	5.94	5.40
TVP5150AM1IPBSR	296-23025-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	3645.00/1,000		
TVP5150AM1IPBSQ1	296-25342-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	8.38	6.87	6.20
TVP5150AM1IPBSRQ	296-25419-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	8.88	7.37	6.70
TVP5150AM1IPBSRQ	296-25419-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	4522.50/1,000		
TVP5150AM1PBSR	296-17016-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	6.75	5.52	4.95
TVP5150AM1PBSR	296-17016-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	3150.00/1,000		
TVP5150AM1ZQC	296-17075-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	48-BGA	7.13	5.85	5.28
TVP5150APBS	296-16650-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	13.93	11.72	10.77
TVP5150APBSR	296-16846-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	14.56	12.35	11.40
TVP5150PBS	296-19303-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	6.88	5.64	5.09
TVP5151IPBSR	296-25420-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	7.02	5.83	5.30
TVP5151IPBSR	296-25420-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	3578.00/1,000		
TVP5151IZQCR	296-25421-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	48-BGA	7.69	6.38	5.80
TVP5151IZQCR	296-25421-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	48-BGA	9425.00/2,500		
TVP5151PBSR	296-25422-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	6.60	5.39	4.84
TVP5151PBSR	296-25422-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	32-TQFP	3080.00/1,000		
TVP5151ZQCR	296-25423-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	48-BGA	7.35	6.01	5.39
TVP5151ZQCR	296-25423-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder* ***NEW!***	48-BGA	8146.25/2,500		
TVP5154AIPNP	296-23153-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder	128-HTQFP	15.18	12.77	11.73
TVP5154APNPR	296-23027-1-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder	128-HTQFP	13.23	11.22	10.35
TVP5154APNPR	296-23027-2-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder	128-HTQFP	7648.00/1,000		
TVP5154PNP	296-19651-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder	128-HTQFP	15.40	12.95	11.90
TVP5156PNPR	296-24886-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	15.95	13.41	12.33
TVP5157PNP	296-24951-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	17.05	14.34	13.18
TVP5157PNPR	296-24887-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	17.05	14.34	13.18
TVP5158IPNP	296-24952-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	20.02	16.84	15.47
TVP5158IPNPR	296-24888-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	20.02	16.84	15.47
TVP5158PNP	296-24953-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	18.15	15.27	14.03
TVP5158PNPR	296-24889-ND	4-Channel NTSC/PAL Video Decoder* ***NEW!***	128-HTQFP	18.15	15.27	14.03
TVP5160PNP	296-17800-ND	NTSC/PAL/SECAM Component 2x10-Bit Digital Video Decoder	128-HTQFP	11.44	9.62	8.84
TVP6000CPFP	296-11094-ND	NTSC/PAL Video Encoder	80-TQFP	16.72	14.06	12.92
TVP7000PZP	296-18741-ND	Triple 8/10-Bit, 150/110MSPS, Video and Graphics Digitizer	100-TQFP	7.50	6.15	5.55
TVP7001PZP	296-19616-ND	Triple 8/10-Bit, 165/110MSPS, Video/Graphics Digitizer	100-HTQFP	11.88	9.74	8.79
TVP7002PZP	296-22891-ND	Triple 8/10-Bit, 165/110MSPS, Video/Graphics Digitizer	100-HTQFP	7.50	6.15	5.55
TVP70025IPZP	296-23680-ND	Triple 10-Bit, 90MSPS, Video and Graphics Digitizer	100-HTQFP	10.00	8.20	7.40

TEXAS INSTRUMENTS DigiReel® DATA CONVERSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC1203BDUB	296-23139-5-ND	16-Bit, 10MHz, 2nd-Order, Isolated Delta-Sigma Modulator	8-SOP	11.50	9.43	8.51
AMC1203DUB	296-23140-5-ND	16-Bit, 10MHz, 2nd-Order, Isolated Delta-Sigma Modulator	8-SOP	10.13	8.31	7.50
AMC7820EVM	296-13540-ND	Evaluation Module for AMC7820	—	101.00	—	—
AMC7823EVM	296-20819-ND	Evaluation Module for AMC7823	—	50.00	—	—
AMC7823IRTAT	296-18680-1-ND	Analog Monitoring/Control Circuit	40-WQFN	15.87	13.46	12.42
Analog-to-Digital Converters						
ADS54RF63IPFP	296-24213-ND	12-Bit, 550MSPS ADC* ***NEW!***	80-HTQFP	256.65	235.41	230.10
ADS62C15IRGCT	296-23088-1-ND	2-Channel, 11-Bit, 125MSPS ADC	64-VQFN	68.68	60.60	57.57
ADS62C15IRGCT	296-23088-2-ND	2-Channel, 11-Bit, 125MSPS ADC	64-VQFN	13433.00/250		
ADS62C17IRGCT	296-24232-1-ND	2-Ch., 11-Bit 200MSPS ADC* ***NEW!***	64-QFN	111.38	97.88	92.82
ADS62C17IRGCT	296-24232-2-ND	2-Ch., 11-Bit 200MSPS ADC* ***NEW!***	64-QFN	21937.50/250		
ADS62P28IRGCT	296-24613-1-ND	2-Ch., 12-Bit, 210MSPS ADC* ***NEW!***	64-VQFN	105.19	92.44	87.66
ADS62P28IRGCT	296-24613-2-ND	2-Ch., 12-Bit, 210MSPS ADC* ***NEW!***	64-VQFN	20718.75/250		
ADS62P29IRGCT	296-24614-1-ND	2-Ch., 12-Bit, 250MSPS ADC* ***NEW!***	64-VQFN	125.55	113.40	109.35
ADS62P29IRGCT	296-24614-2-ND	2-Ch., 12-Bit, 250MSPS ADC* ***NEW!***	64-VQFN	26072.00/250		
ADS62P45IRGCT	296-23138-1-ND	2-Channel, 14-Bit, 125MSPS ADC	64-VQFN	101.48	89.18	84.57
ADS62P48IRGCT	296-24611-1-ND	2-Ch., 14-Bit, 210MSPS ADC* ***NEW!***	64-VQFN	176.18	164.03	157.95
ADS62P48IRGCT	296-24611-2-ND	2-Ch., 14-Bit, 210MSPS ADC* ***NEW!***	64-VQFN	38728.25/250		
ADS62P49IRGCT	296-24398-1-ND	2-Ch., 14-Bit, 250MSPS ADC* ***NEW!***	64-VQFN	212.06	197.44	190.13
ADS62P49IRGCT	296-24398-2-ND	2-Ch., 14-Bit, 250MSPS ADC* ***NEW!***	64-VQFN	46617.25/250		
ADS62P49EVM	296-24396-ND	Eval. Module for ADS62P49 ***NEW!***	—	305.00	—	—
ADS574JP	ADS574JP-ND	12-Bit, 40kHz Sampling CMOS ADC	28-Dip	37.19	32.16	30.15
ADS574KP	ADS574KP-ND	12-Bit, 40kHz Sampling CMOS ADC	28-Dip	43.11	37.28	34.95
ADS774HIBDW	296-25134-5-ND	12-Bit, 117kHz Sampling CMOS ADC* ***NEW!***	28-SOIC	29.00	24.65	22.84
ADS774HIDW	296-25135-5-ND	12-Bit, 117kHz Sampling CMOS ADC* ***NEW!***	28-SOIC	24.00	20.40	18.90
ADS774JP	ADS774JP-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	42.27	36.56	34.28
ADS774JU	ADS774JU-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	37.46	32.40	30.38
ADS774KE	ADS774KE-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	40.52	35.04	32.85
ADS774KP	ADS774KP-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	49.03	42.40	39.75
ADS774KU	ADS774KU-ND	12-Bit, 117kHz Sampling CMOS ADC	28-SOIC	44.22	38.24	35.85
ADS800U	ADS800U-ND	12-Bit, 40MHz Sampling ADC	28-SOIC	66.91	59.82	56.77
ADS801U	ADS801U-ND	12-Bit, 25MHz Sampling ADC	28-SOIC	35.40	30.09	27.88

* *RoHS Compliant* **★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★** *(Continued)*

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DATA CONVERSION

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
ADS802U	ADS802U-ND	12-Bit, 10MHz Sampling ADC	28-SOIC	35.50	30.18	27.96
ADS803E	ADS803E-ND	12-Bit, 5MHz Sampling ADC	28-SSOP	22.50	19.13	17.72
ADS804E	ADS804E-ND	12-Bit, 10MHz Sampling ADC	28-SSOP	27.00	22.95	21.27
ADS805E	ADS805E-ND	12-Bit, 20MHz Sampling ADC	28-SSOP	23.80	20.23	18.75
ADS807E	ADS807E-ND	12-Bit, 53MHz ADC	28-SSOP	26.60	22.61	20.95
DEM-ADS807E	296-18423-ND	Evaluation Fixture for ADS807E	—	203.00	—	—
ADS808Y/250	ADS808Y/250CT-ND	12-Bit, 70MSPS Sampling ADC	48-HTQFP	53.20	46.48	43.40
ADS808Y/250	ADS808Y/250TR-ND	12-Bit, 70MSPS Sampling ADC	48-HTQFP	9800.00/250		
ADS820U	ADS820U-ND	10-Bit, 20MHz Sampling ADC	28-SOIC	20.30	17.26	15.99
ADS821U	ADS821U-ND	10-Bit, 40MHz Sampling ADC	28-SOIC	36.60	31.11	28.83
ADS822E	ADS822E-ND	10-Bit, 40MHz Sampling ADC	28-SSOP	13.75	11.57	10.63
ADS823E	ADS823E-ND	10-Bit, 60MHz Sampling ADC	28-SSOP	25.00	21.25	19.69
DEM-ADS823E	296-18424-ND	Evaluation Fixture for ADS823E	—	152.00	—	—
ADS825E	ADS825E-ND	10-Bit, 40MHz ADC	28-SSOP	13.75	11.57	10.63
ADS826E	ADS826E-ND	10-Bit, 60MHz ADC	28-SSOP	25.00	21.25	19.69
ADS828E	ADS828E-ND	10-Bit, 75MHz ADC	28-SSOP	25.80	21.93	20.32
ADS830E	ADS830E-ND	8-Bit, 60MHz ADC	20-QSOP	8.13	6.67	6.02
ADS830E/2K5	ADS830ETR-ND	8-Bit, 60MHz ADC	20-QSOP	8937.50/2,500		
DEM-ADS830E	296-18425-ND	Demo Board for ADS830E	—	152.00	—	—
ADS831E	ADS831E-ND	8-Bit, 80MHz ADC	20-QSOP	11.88	9.74	8.79
ADS850-EVM	296-12198-ND	Evaluation Module for ADS850	—	152.00	—	—
ADS850Y/2K5	ADS850YCT-ND	14-Bit, 10MSPS Self-Calibrating ADC	48-TQFP	36.60	32.94	30.20
ADS850Y/2K5	ADS850YTR-ND	14-Bit, 10MSPS Self-Calibrating ADC	48-TQFP	6633.75/250		
ADS900E	ADS900E-ND	10-Bit, 20MHz +3V, Supply ADC	28-SSOP	11.66	9.81	9.01
ADS901E	ADS901E-ND	10-Bit, 20MHz +3V, Supply ADC	28-SSOP	11.22	9.44	8.67
ADS930E	ADS930E-ND	8-Bit, 30MHz Sampling ADC	28-SSOP	8.63	7.08	6.39
ADS931E	ADS931E-ND	8-Bit, 30MHz Sampling ADC	28-SSOP	6.63	5.44	4.91
ADS1000A0IDBVT	296-20737-1-ND	12-Bit ADC with I^2C Interface	SOT-23-6	2.63	2.03	1.84
ADS1000A0IDBVT	296-20737-2-ND	12-Bit ADC with I^2C Interface	SOT-23-6	375.00/250		
ADS1000A0QDBVRQ1	296-25254-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	SOT-23-6	2.80	2.16	1.96
ADS1000A0QDBVRQ1	296-25254-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	SOT-23-6	3192.00/3,000		
ADS1000A1IDBVT	296-20738-1-ND	12-Bit ADC with I^2C Interface	SOT-23-6	2.63	2.03	1.84
ADS1000A1IDBVT	296-20738-2-ND	12-Bit ADC with I^2C Interface	SOT-23-6	375.00/250		
ADS1013IDGST	296-25225-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	3.15	2.58	2.31
ADS1013IDGST	296-25225-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	485.75/250		
ADS1013IRUGT	296-25170-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	3.15	2.58	2.31
ADS1013IRUGT	296-25170-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	485.75/250		
ADS1014IDGST	296-25226-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	3.45	2.82	2.53
ADS1014IDGST	296-25226-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	532.00/250		
ADS1014IRUGT	296-25171-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	3.45	2.82	2.53
ADS1014IRUGT	296-25171-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	532.00/250		
ADS1015IDGST	296-25227-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	3.90	3.19	2.86
ADS1015IDGST	296-25227-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-MSOP	601.25/250		
ADS1015IRUGT	296-25172-1-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	3.90	3.19	2.86
ADS1015IRUGT	296-25172-2-ND	12-Bit ADC with I^2C Interface* ***NEW!***	10-QFN	601.25/250		
ADS1100A0IDBVT	296-12966-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1100A0IDBVT	296-12966-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	971.25/250		
ADS1100A1IDBVT	296-14298-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1100A1IDBVT	296-14298-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	971.25/250		
ADS1100A2IDBVT	296-14299-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1100A2IDBVT	296-14299-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	971.25/250		
ADS1100A3IDBVT	296-14300-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1100A4IDBVT	296-14301-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1100A4IDBVT	296-14301-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	971.25/250		
ADS1100A5IDBVT	296-14302-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	6.30	5.15	4.62
ADS1110A0IDBVT	296-14461-1-ND	16-Bit ADC with Onboard Reference	SOT-23-6	6.42	5.25	4.71
ADS1110A0IDBVT	296-14461-2-ND	16-Bit ADC with Onboard Reference	SOT-23-6	989.75/250		
ADS1110A1IDBVT	296-14462-1-ND	16-Bit ADC with Onboard Reference	SOT-23-6	6.42	5.25	4.71
ADS1110A1IDBVT	296-14462-2-ND	16-Bit ADC with Onboard Reference	SOT-23-6	989.75/250		
ADS1110A2IDBVT	296-14463-1-ND	16-Bit ADC with Onboard Reference	SOT-23-6	6.42	5.25	4.71
ADS1110A6IDBVT	296-14467-1-ND	16-Bit ADC with Onboard Reference	SOT-23-6	6.42	5.25	4.71
ADS1112IDGST	296-15334-1-ND	16-Bit ADC w/Input Mux/Onboard Ref.	10-MSOP	8.08	6.71	6.10
ADS1112IDGST	296-15334-2-ND	16-Bit ADC w/Input Mux/Onboard Ref.	10-MSOP	1296.25/250		
ADS1112IDRCT	296-15761-1-ND	16-Bit ADC w/Input Mux/Onboard Ref.	10-SON	8.08	6.71	6.10
ADS1112IDRCT	296-15761-2-ND	16-Bit ADC w/Input Mux/Onboard Ref.	10-SON	1296.25/250		
ADS1113IDGST	296-24930-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	6.30	5.15	4.62
ADS1113IDGST	296-24930-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	971.25/250		
ADS1113IRUGT	296-24931-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	6.30	5.15	4.62
ADS1113IRUGT	296-24931-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	971.25/250		
ADS1114IDGST	296-24932-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	6.90	5.64	5.06
ADS1114IDGST	296-24932-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	1063.75/250		
ADS1114IRUGT	296-24933-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	6.90	5.64	5.06
ADS1114IRUGT	296-24933-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	1063.75/250		
ADS1115IDGST	296-24934-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	6.76	5.61	5.10
ADS1115IDGST	296-24934-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-MSOP	1083.75/250		
ADS1115IRUGT	296-24935-1-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	6.76	5.61	5.10
ADS1115IRUGT	296-24935-2-ND	16-Bit ADC with Onboard Ref.* ***NEW!***	10-QFN	1083.75/250		
ADS1130IPW	296-24612-5-ND	18-Bit, Delta Sigma ADC****NEW!***	16-TSSOP	6.38	5.23	4.72
ADS1158IRTCT	296-23494-1-ND	16-Channel, 16-Bit ADC	48-QFN	15.76	13.36	12.33
ADS1174IPAPT	296-22951-1-ND	Quad, Simultaneous Sampling, 16-Bit ADC	64-HTQFP	15.87	13.46	12.42
ADS1174IPAPT	296-22951-2-ND	Quad, Simultaneous Sampling, 16-Bit ADC	64-HTQFP	2673.75/250		
ADS1178IPAPT	296-22952-1-ND	Octal, Simultaneous Sampling, 16-Bit ADC	64-HTQFP	21.16	17.94	16.56
ADS1178IPAPT	296-22952-2-ND	Octal, Simultaneous Sampling, 16-Bit ADC	64-HTQFP	3565.00/250		
ADS1201U	ADS1201U-ND	High Dynamic Range Modulator	16-SOIC	20.60	17.51	16.23
ADS1202EVM	296-18357-ND	Evaluation Module for ADS1202	—	50.00	—	—
ADS1203IRGTT	296-17908-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	16-VQFN	8.75	7.26	6.60
ADS1204IRHBT	296-17187-1-ND	Four 1-Bit, 10MHz Delta-Sigma Modulator	32-VQFN	17.94	15.21	14.04
ADS1205IRGET	296-18193-1-ND	Two 16-Bit, 10MHz, 2nd-Order Delta-Sigma Modulator	24-VQFN	13.11	11.12	10.26
ADS1208IPW	296-17889-5-ND	2nd-Order Delta-Sigma Modulator	16-TSSOP	9.50	7.79	7.03
ADS1210P	ADS1210P-ND	24-Bit, Delta-Sigma ADC	18-Dip	25.80	21.93	20.32
ADS1210U	ADS1210U-ND	24-Bit, Delta-Sigma ADC	18-SOIC	28.50	24.23	22.45
ADS1211E	ADS1211E-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	30.40	25.84	23.94

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DATA CONVERSION

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
ADS1211P	ADS1211P-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	27.80	23.63	21.90
ADS1211U	ADS1211U-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	30.40	25.84	23.94
ADS1212P	ADS1212P-ND	22-Bit, Delta-Sigma ADC	18-Dip	21.00	17.85	16.54
ADS1212U	ADS1212U-ND	22-Bit, Delta-Sigma ADC	18-SOIC	24.00	20.40	18.90
ADS1213E	ADS1213E-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	27.00	22.95	21.27
ADS1213P	ADS1213P-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	24.20	20.57	19.06
ADS1213U	ADS1213U-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	27.00	22.95	21.27
ADS1216Y/250	ADS1216Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	13.23	11.22	10.35
ADS1216Y/250	ADS1216Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	2228.25/250		
ADS1217IPFBT	296-12967-1-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	16.56	14.04	12.96
ADS1217IPFBT	296-12967-2-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	2790.00/250		
ADS1218Y/250	ADS1218Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	15.87	13.46	12.42
ADS1218Y/250	ADS1218Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	2673.75/250		
ADS1224EVM	296-16984-ND	Evaluation Module for ADS1224	—	50.00	—	—
ADS1224IPWT	296-16923-1-ND	24-Bit ADC Converter with 4-Channel Differential Input Mux	20-TSSOP	9.94	8.25	7.50
ADS1230IPW	296-23180-5-ND	Precision 20-Bit ADC	16-TSSOP	7.38	6.05	5.46
ADS1230IPWR	296-25893-1-ND	20-Bit ADC Converter* ***NEW!***	16-TSSOP	6.63	5.50	5.00
ADS1230IPWR	296-25893-2-ND	20-Bit ADC Converter* ***NEW!***	16-TSSOP	6500.00/2,000		
ADS1232IPW	296-18589-5-ND	24-Bit ADC Converter	24-TSSOP	11.75	9.64	8.70
ADS1232REF	296-20803-ND	Evaluation Module for ADS1232	—	50.00	—	—
ADS1234IPW	296-18673-5-ND	24-Bit ADC Converter	28-TSSOP	12.25	10.05	9.07
ADS1240E	ADS1240E-ND	24-Bit, Delta-Sigma ADC	24-SSOP	11.50	9.43	8.51
ADS1241E	ADS1241E-ND	24-Bit, Delta-Sigma ADC	28-SSOP	11.11	9.35	8.59
ADS1241MEVM	296-18358-ND	Evaluation Module for ADS1241M	—	50.00	—	—
ADS1242IPWT	ADS1242IPWTCT-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	11.00	9.13	8.30
ADS1242IPWT	ADS1242IPWTTR-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	1763.75/250		
ADS1243IPWT	ADS1243IPWTCT-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	12.06	10.01	9.10
ADS1243IPWT	ADS1243IPWTTR-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	1933.75/250		
ADS1244EVM	296-18359-ND	Evaluation Module for ADS1244	—	50.00	—	—
ADS1244IDGST	296-14003-1-ND	24-Bit, Low Power ADC	10-MSOP	11.26	9.35	8.50
ADS1244IDGST	296-14003-2-ND	24-Bit, Low Power ADC	10-MSOP	1806.25/250		
ADS1246IPW	296-24292-5-ND	24-Bit, Delta-Sigma ADC* ***NEW!***	16-TSSOP	10.38	8.51	7.68
ADS1247IPW	296-24293-5-ND	24-Bit, Delta-Sigma ADC* ***NEW!***	20-TSSOP	11.77	9.90	9.10
ADS1248IPW	296-24294-5-ND	24-Bit, Delta-Sigma ADC* ***NEW!***	28-TSSOP	13.09	11.01	10.12
ADS1250U	ADS1250U-ND	20-Bit, 25kHz ADC, DSP Interface	16-SOIC	20.90	17.77	16.46
ADS1251U	ADS1251U-ND	24-Bit, 20MSPS, Low Power ADC	8-SOIC	14.85	12.49	11.48
ADS1252EVM	296-19906-ND	Evaluation Module for ADS1252	—	99.78	—	—
ADS1252U	ADS1252U-ND	24-Bit, 40kHz ADC	8-SOIC	17.05	14.34	13.18
ADS1253E/2K5	296-13060-1-ND	24-Bit, 20kHz, Low Power ADC	16-QSOP	19.32	16.38	15.12
ADS1253E/2K5	296-13060-2-ND	24-Bit, 20kHz, Low Power ADC	16-QSOP	26775.00/2,500		
ADS1254E	ADS1254E-ND	24-Bit, 20kHz, Low Power ADC	20-QSOP	17.71	14.90	13.69
ADS1255IDBR	296-25897-1-ND	24-Bit, Low Noise ADC* ***NEW!***	20-SSOP	14.95	12.68	11.70
ADS1255IDBR	296-25897-2-ND	24-Bit, Low Noise ADC* ***NEW!***	20-SSOP	8645.00/1,000		
ADS1255IDBT	296-15743-1-ND	24-Bit, 30kSPS, Low Noise ADC	20-SSOP	17.25	14.63	13.50
ADS1255IDBT	296-15743-2-ND	24-Bit, 30kSPS, Low Noise ADC	20-SSOP	2906.25/250		
ADS1256EVM	296-18360-ND	Evaluation Module for ADS1256	—	50.00	—	—
ADS1256IDBR	296-25898-1-ND	24-Bit, Low Noise ADC* ***NEW!***	28-SSOP	15.99	13.56	12.51
ADS1256IDBR	296-25898-2-ND	24-Bit, Low Noise ADC* ***NEW!***	28-SSOP	9244.00/1,000		
ADS1256IDBT	296-15208-1-ND	24-Bit, Low Noise ADC	28-SSOP	18.40	15.60	14.40
ADS1256IDBT	296-15208-2-ND	24-Bit, Low Noise ADC	28-SSOP	3100.00/250		
ADS1258IPHPREP	296-25632-1-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-HTQFP	24.50	22.05	20.22
ADS1258IPHPREP	296-25632-2-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-HTQFP	15925.00/1,000		
ADS1258IRTCT	296-18674-1-ND	24-Bit, 16-Channel ADC	48-VQFN	22.90	20.61	18.90
ADS1258IRTCT	296-18674-2-ND	24-Bit, 16-Channel ADC	48-VQFN	4150.75/250		
ADS1258MPHPTEP	296-25633-1-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-HTQFP	31.90	28.71	26.32
ADS1258MPHPTEP	296-25633-2-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-HTQFP	5782.00/250		
ADS1258MRTCTEP	296-24278-1-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-QFN	41.61	36.36	33.95
ADS1258MRTCTEP	296-24278-2-ND	24-Bit, 16-Channel ADC* ***NEW!***	48-QFN	7665.00/250		
ADS1271EVM	296-18361-ND	Evaluation Module for ADS1271	—	50.00	—	—
ADS1271EVM-PDK	296-18362-ND	Eval. Module for ADS1271-PDK	—	152.00	—	—
ADS1271IBPW	296-21722-5-ND	24-Bit, Wide Bandwidth ADC	16-TSSOP	20.02	16.84	15.47
ADS1271IPW	296-17513-5-ND	24-Bit, Wide Bandwidth ADC	16-TSSOP	15.62	13.14	12.07
ADS1274IPAPT	296-22078-1-ND	Quad Simultaneous Sampling, 24-Bit ADC	64-HTQFP	30.90	27.81	25.50
ADS1274IPAPT	296-22078-2-ND	Quad Simultaneous Sampling, 24-Bit ADC	64-HTQFP	5600.75/250		
ADS1278IPAPT	296-21983-1-ND	Octal, Simultaneous Sampling, 24-Bit ADC	64-HTQFP	48.36	42.25	39.45
ADS1278IPAPT	296-21983-2-ND	Octal, Simultaneous Sampling, 24-Bit ADC	64-HTQFP	8907.50/250		
ADS1281EVM	296-24300-ND	Eval. Module for ADS1281 ***NEW!***	—	50.00	—	—
ADS1281EVM-PDK	296-24301-ND	Performace Development Kit for ADS1281 ***NEW!***	—	152.00	—	—
ADS1281IPWR	296-22915-1-ND	High Resolution ADC	24-TSSOP	54.63	47.73	44.57
ADS1281IPWR	296-22915-2-ND	High Resolution ADC	24-TSSOP	71012.00/2,000		
ADS1282IPW	296-23429-5-ND	High Resolution ADC	28-TSSOP	71.61	64.02	60.76
ADS1286P	ADS1286P-ND	12-Bit, Micropower Sampling ADC	8-Dip	8.33	6.83	6.17
ADS1286PA	ADS1286PA-ND	12-Bit, 200kHz Unipol ADC	8-Dip	9.03	7.41	6.68
ADS1286U	ADS1286U-ND	12-Bit, Micropower Sampling ADC	8-SOIC	8.08	6.63	5.98
ADS1286UA	ADS1286UA-ND	12-Bit, 200kHz Unipol ADC	8-SOIC	8.68	7.12	6.42
ADS1601EVM	296-17825-ND	Evaluation Board for ADS1601	—	203.00	—	—
ADS1601IPFBT	296-17631-1-ND	16-Bit, 1.25MSPS ADC	48-TQFP	19.90	16.87	15.57
ADS1602EVM	296-20804-ND	Evaluation Module for ADS1601/02	—	203.00	—	—
ADS1602IPFBT	296-17890-1-ND	16-Bit, 2.5MSPS ADC	48-TQFP	21.16	17.94	16.56
ADS1602IPFBT	296-17890-2-ND	16-Bit, 2.5MSPS ADC	48-TQFP	3565.00/250		
ADS1605EVM	296-18363-ND	Evaluation Module for ADS1605	—	152.00	—	—
ADS1606EVM	296-16735-ND	Evaluation Module For ADS1606	—	152.00	—	—
ADS1610IPAPT	296-19656-1-ND	16-Bit, 10MSPS ADC	64-TQFP	40.76	35.61	33.25
ADS1625EVM	296-18364-ND	Evaluation Module for ADS1625	—	152.00	—	—
ADS1626EVM	296-16740-ND	Evaluation Module For ADS1626	—	152.00	—	—
ADS1626IPAPT	296-15877-5-ND	18-Bit, 1.25MSPS ADC	64-HTQFP	29.00	24.65	22.84
ADS1672IPAG	296-23495-ND	24-Bit, 625kSPS ADC	64-TQFP	26.50	22.53	20.87
ADS1675IPAG	296-24132-ND	24-Bit, 4MSPS ADC*	64-TQFP	39.87	34.48	32.33
ADS2806-EVM	296-19907-ND	Evaluation Module for ADS2806	—	101.00	—	—

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TEXAS INSTRUMENTS Digi-Reel® (Cont.)

DATA CONVERSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS2806Y/250	ADS2806Y/250CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	38.30	34.47	31.60
ADS2806Y/250	ADS2806Y/250TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	6942.00/250		
ADS2807-EVM	296-19908-ND	Evaluation Module for ADS2807	—	101.00	—	—
ADS2807Y/1K5	ADS2807Y/1K5CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	36.10	32.49	29.79
ADS2807Y/1K5	ADS2807Y/1K5TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	35197.50/1,500		
ADS5102EVM	296-19909-ND	Evaluation Module for ADS5102	—	101.00	—	—
ADS5102IPFB	296-13062-ND	1.8V Analog Supply, 10-Bit, 65MSPS, ADC with Internal Reference	48-TQFP	21.90	18.62	17.25
ADS5103EVM	296-13539-ND	Evaluation Module for ADS5103	—	101.00	—	—
ADS5103IPFB	296-13063-ND	1.8V Analog Supply, 10-Bit, 40MSPS, ADC with Internal Reference	48-TQFP	17.82	14.99	13.77
ADS5120CGHK	ADS5120CGHK-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	77.88	69.62	66.08
ADS5120CZHK	296-19272-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	80.96	72.11	68.31
ADS5121IGHK	296-15074-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	67.40	60.26	57.19
ADS5121IZHK	296-19273-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	67.40	60.26	57.19
ADS5122CGHK	296-15075-ND	8-Channel, 10-Bit, 65MSPS, 1.8V CMOS ADC	257-BGA	74.00	66.16	62.79
ADS5122CZHK	296-19274-ND	10-Bit, 1.8V, 8-Ch., 65MSPS, CMOS ADC	257-BGA	79.37	70.95	67.34
ADS5203IPFB	296-13446-ND	10-Bit, 3.3V, Dual 40MSPS LP ADC	48-TQFP	27.20	23.12	21.42
ADS5204IPFB	296-13447-ND	10-Bit, 3.3V, Dual 40MSPS LP ADC with PGA	48-TQFP	30.60	26.01	24.10
ADS5204IPFBRG4Q1	296-25640-1-ND	10-Bit, Dual 40MSPS LP ADC* ***NEW!***	48-TQFP	32.20	28.98	26.57
ADS5204IPFBRG4Q1	296-25640-2-ND	10-Bit, Dual 40MSPS LP ADC* ***NEW!***	48-TQFP	20930.00/1,000		
ADS5220PFBT	296-16927-1-ND	12-Bit, 40MSPS ADC	48-TQFP	27.20	24.48	22.44
ADS5220PFBT	296-16927-2-ND	12-Bit, 40MSPS ADC	48-TQFP	4930.00/250		
ADS5221PFBT	296-17557-1-ND	12-Bit, 65MSPS ADC	48-TQFP	37.58	33.83	31.01
ADS5231IPAG	296-21529-ND	Dual, 12-Bit, 40MSPS, 3.3V ADC	64-TQFP	27.50	23.38	21.66
ADS5232IPAG	296-19657-ND	Dual, 12-Bit, 65MSPS ADC	64-TQFP	36.00	30.60	28.35
ADS5237IPAG	296-22736-ND	Dual, 10-Bit, 65MSPS, ADC	64-TQFP	19.80	16.65	15.30
ADS5240EVM	296-20805-ND	Evaluation Module for ADS5240/42	—	203.00	—	—
ADS5240IPAP	296-17632-ND	12-Bit, 40MSPS, 4-Channel ADC	64-HTQFP	49.95	43.20	40.50
ADS5242IPAP	296-18643-ND	12-Bit, 65MSPS, 4-Channel ADC	64-HTQFP	67.15	59.25	56.29
ADS5270EVM	296-17408-ND	Evaluation Module for ADS5270	—	203.00	—	—
ADS5270IPFP	296-17091-ND	12-Bit, 40MSPS, 8-Channel ADC	80-HTQFP	91.20	81.23	76.95
ADS5271EVM	296-17409-ND	Evaluation Module for ADS5271	—	203.00	—	—
ADS5271IPFP	296-17153-ND	12-Bit, 50MSPS, 8-Channel ADC	80-HTQFP	99.20	88.35	83.70
ADS5272IPFP	296-18605-ND	12-Bit, 65MSPS, 8-Channel ADC	80-HTQFP	112.96	100.61	95.31
ADS5273IPFP	296-18606-ND	12-Bit, 70MSPS, 8-Channel ADC	80-HTQFP	222.21	203.83	199.23
ADS5277IPFP	296-18309-ND	10-Bit, 65MSPS, 8-Channel ADC	80-HTQFP	57.80	51.00	48.45
ADS5281IPFP	296-23032-ND	12-Bit, 50MSPS, 8-Channel ADC	80-HTQFP	79.37	70.95	67.34
ADS5281IRGCT	296-23307-1-ND	12-Bit, 50MSPS, 8-Channel ADC	64-VQFN	80.92	71.40	67.83
ADS5281IRGCT	296-23307-2-ND	12-Bit, 50MSPS, 8-Channel ADC	64-VQFN	15827.00/250		
ADS5400EVM	296-25235-ND	Eval. Module for ADS5400 ***NEW!***	—	1529.00	—	—
ADS5410IPFB	296-13448-ND	12-Bit, 80MSPS CommsADC™ ADC	48-TQFP	46.71	40.40	37.88
ADS5411IPGP	296-25756-ND	11-Bit, 105MSPS ADC* ***NEW!***	52-HTQFP	50.88	44.00	41.25
ADS5411IPJY	296-19394-ND	11-Bit, 105MSPS ADC	52-QFP	50.88	44.00	41.25
ADS5413IPHP	296-18365-ND	Single 12-Bit, 65MSPS IF Sampling ADC	48-HTQFP	38.67	33.44	31.35
ADS5413-11IPHP	296-16972-ND	11-Bit, 65MSPS, High IF Sampling ADC	48-HTQFP	39.90	33.92	31.43
ADS5421Y/T	ADS5421Y/TCT-ND	14-Bit, 40MHz, LP ADC	64-LQFP	50.73	44.33	41.39
ADS5422Y/250	ADS5422Y/250CT-ND	14-Bit, Sampling ADC	64-LQFP	69.21	61.31	57.35
ADS5422Y/250	ADS5422Y/250TR-ND	14-Bit, Sampling ADC	64-LQFP	13348.25/250		
ADS5423EVM	296-17998-ND	Evaluation Board for ADS5423/24	—	128.95	—	—
ADS5423IPJY	296-17802-ND	14-Bit, 80MSPS ADC	52-QFP	69.30	61.95	58.80
ADS5424EVM	296-20806-ND	Evaluation Module for ADS5424	—	101.00	—	—
ADS5424IPJY	296-17758-ND	14-Bit, 105MSPS ADC	52-QFP	92.80	82.65	78.30
ADS5433IPJY	296-19665-ND	14-Bit, 80MSPS ADC	52-QFP	304.43	279.24	272.94
ADS5440EVM	296-19293-ND	Evaluation Module for ADS5440	—	305.00	—	—
ADS5440IPFP	296-19395-ND	13-Bit, 210MSPS ADC	52-HTQFP	87.20	77.67	73.58
ADS5440MPFPEP	296-20672-ND	13-Bit, 210MSPS ADC	80-HTQFP	114.24	101.75	96.39
ADS5444EVM	296-19374-ND	Evaluation Module for ADS5444	—	305.00	—	—
ADS5444IPFP	296-19536-ND	13-Bit, 250MSPS ADC	80-HTQFP	97.60	86.93	82.35
ADS5444MPFPEP	296-20673-ND	13-Bit, 250MSPS ADC	80-HTQFP	145.44	133.40	130.39
ADS5463IPFP	296-21323-ND	12-Bit, 500MSPS ADC	80-HTQFP	184.15	168.91	165.10
ADS5474IPFP	296-22004-ND	14-Bit, 400MSPS ADC	80-HTQFP	220.40	202.16	197.60
ADS5483IRGCT	296-23456-1-ND	16-Bit, 135MSPS ADC	64-VQFN	109.73	96.43	91.44
ADS5483IRGCT	296-23456-2-ND	16-Bit, 135MSPS ADC	64-VQFN	21612.50/250		
ADS5485IRGCT	296-24131-1-ND	16-Bit, 200MSPS ADC*	64-VQFN	145.65	135.61	130.59
ADS5500IPAP	296-16924-ND	14-Bit, 125MSPS ADC	64-HTQFP	101.20	90.14	85.39
ADS5500MPAPEP	296-22551-ND	14-Bit, 125MSPS ADC	64-HTQFP	141.98	128.02	123.83
ADS5510IPAP	296-21509-ND	11-Bit, 125MSPS ADC	64-HTQFP	32.40	27.54	25.52
ADS5520EVM	296-20807-ND	Evaluation Module for ADS5520	—	152.00	—	—
ADS5520IPAP	296-17702-ND	12-Bit, 125MSPS ADC	64-HTQFP	54.58	47.20	44.25
ADS5521EVM	296-20808-ND	Evaluation Module for ADS5521	—	203.00	—	—
ADS5521IPAP	296-17934-ND	12-Bit, 105MSPS ADC	64-HTQFP	52.28	46.13	43.82
ADS5522EVM	296-20809-ND	Evaluation Module for ADS5522	—	203.00	—	—
ADS5522IPAP	296-17826-ND	12-Bit, 80MSPS ADC	64-HTQFP	37.40	31.79	29.46
ADS5541EVM	296-20810-ND	Evaluation Module for ADS5541	—	203.00	—	—
ADS5541IPAP	296-17999-ND	14-Bit, 105MSPS ADC	64-HTQFP	85.20	75.89	71.89
ADS5542EVM	296-20811-ND	Evaluation Module for ADS5542	—	203.00	—	—
ADS5542IPAP	296-17852-ND	14-Bit, 80MSPS ADC	64-HTQFP	56.53	49.88	47.39
ADS5545EVM	296-19452-ND	Evaluation Module for ADS5545	—	305.00	—	—
ADS5545IRGZT	296-20740-1-ND	14-Bit, 170MSPS ADC	48-VQFN	105.60	92.80	88.00
ADS5545IRGZT	296-20740-2-ND	14-Bit, 170MSPS ADC	48-VQFN	20800.00/250		
ADS5546EVM	296-20812-ND	Evaluation Module for ADS5546	—	305.00	—	—
ADS5546IRGZT	296-20632-1-ND	14-Bit, 190MSPS ADC with DDR LVDS/ CMOS Output	48-VQFN	122.10	107.30	101.75
ADS5553EVM	296-20813-ND	Evaluation Module for ADS5553	—	305.00	—	—
ADS5553IPFP	296-17827-ND	Dual 14-Bit, 65MSPS ADC	80-HTQFP	67.15	59.25	56.29
ADS6122IRHBT	296-22701-1-ND	12-Bit, 65MSPS ADC	32-VQFN	27.00	24.30	22.28
ADS6125EVM	296-23159-ND	Evaluation Module for ADS6125	—	305.00	—	—
ADS6142IRHBT	296-22737-1-ND	14-Bit, 65MSPS ADC with DDR LVDS/ CMOS Output	32-VQFN	38.29	33.45	31.24
ADS6422IRGCT	296-22080-1-ND	Quad Channel, 12-Bit, 65MSPS ADC	64-VQFN	58.01	51.39	48.07

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RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS7229IPW	296-23597-5-ND	LP, 12-Bit, 1MSPS ADC	16-TSSOP	7.00	5.74	5.18
ADS7230IPW	296-23598-5-ND	Low Power, 12-Bit, 1MSPS ADC with Dual Unipolar Input	16-TSSOP	7.50	6.15	5.55
ADS7279IPW	296-23599-5-ND	Low Power, 14-Bit, 1MSPS ADC with Unipolar Input	16-TSSOP	11.11	9.35	8.59
ADS7280IPW	296-23600-5-ND	Low Power, 14-Bit, 1MSPS ADC with Dual Unipolar Input	16-TSSOP	11.88	9.99	9.18
ADS7800JP	ADS7800JP-ND	12-Bit, 333kHz Sampling ADC	24-Dip	51.09	45.08	42.83
ADS7800JU	ADS7800JU-ND	12-Bit, 333kHz Sampling ADC	24-SOIC	54.49	48.08	45.68
ADS7800KP	ADS7800KP-ND	12-Bit, 333kHz Sampling ADC	24-Dip	61.37	54.15	51.45
ADS7800KU	296-25663-5-ND	12-Bit, 333kHz Sampling ADC*	24-SOIC	61.37	54.15	51.45
ADS7804P	ADS7804P-ND	12-Bit, 10µS Sampling CMOS ADC	28-Dip	32.98	28.04	25.98
ADS7804PB	ADS7804PB-ND	12-Bit, 10µS Sampling CMOS ADC	28-Dip	39.31	34.00	31.88
ADS7804U	ADS7804U-ND	12-Bit, 10µS Sampling CMOS ADC	28-SOIC	31.54	26.81	24.84
ADS7804UB	ADS7804UB-ND	12-Bit, 10µS Sampling CMOS ADC	28-SOIC	38.05	32.92	30.86
ADS7805P	ADS7805P-ND	16-Bit, 10µS Sampling CMOS ADC	28-Dip .3	46.55	40.26	37.74
ADS7805PB	296-19910-ND	16-Bit, 10µS Sampling CMOS ADC	28-Dip	55.64	49.10	46.65
ADS7805U	ADS7805U-ND	16-Bit, 10µS Sampling CMOS ADC	28-SOIC	44.42	38.42	36.02
ADS7805UB	ADS7805UB-ND	16-Bit, 10µS Sampling CMOS ADC	28-SOIC	53.75	47.43	45.06
ADS7806P	ADS7806P-ND	LP 12-Bit Sampling CMOS ADC	28-Dip	35.36	30.06	27.85
ADS7806U	ADS7806U-ND	LP 12-Bit Sampling CMOS ADC	28-SOIC	35.36	30.06	27.85
ADS7807P	ADS7807P-ND	LP 16-Bit Sampling CMOS ADC	28-Dip .3	51.95	45.84	43.55
ADS7807PB	ADS7807PB-ND	LP 16-Bit Sampling CMOS ADC	28-Dip	61.27	54.06	51.36
ADS7807U	ADS7807U-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	53.95	46.66	43.74
ADS7807UB	ADS7807UB-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	58.96	52.02	49.42
ADS7808U	ADS7808U-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	30.60	26.01	24.10
ADS7808UB	ADS7808UB-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	39.86	33.89	31.39
ADS7809U	ADS7809U-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	44.42	38.42	36.02
ADS7809UB	ADS7809UB-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	53.75	47.43	45.06
ADS7810U	ADS7810U-ND	12-Bit, 800kHz Sampling CMOS ADC	28-SOIC	89.49	79.71	75.51
ADS7811U	ADS7811U-ND	16-Bit, 250kHz Sampling ADC	28-SOIC	64.60	57.00	54.15
ADS7812P	ADS7812P-ND	LP Serial 12-Bit Sampling ADC	16-Dip	24.80	21.08	19.53
ADS7812U	ADS7812U-ND	LP Serial 12-Bit Sampling ADC	16-SOIC	23.60	20.06	18.59
ADS7813P	ADS7813P-ND	LP Serial 16-Bit Sampling ADC	16-Dip	41.44	35.84	33.60
ADS7813U	ADS7813U-ND	LP Serial 16-Bit Sampling ADC	16-SOIC	43.11	37.28	34.95
ADS7815U	ADS7815U-ND	16-Bit, 250kHz Sampling CMOS ADC	28-SOIC	43.11	37.28	34.95
ADS7816E/250	ADS7816ECT-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	6.42	5.25	4.71
ADS7816E/250	ADS7816ETR-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	989.75/250		
ADS7816EB/250	ADS7816EBCT-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	6.68	5.55	5.04
ADS7816EB/250	ADS7816EBTR-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	1071.00/250		
ADS7816EC/250	ADS7816ECCT-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	7.42	6.16	5.60
ADS7816EC/250	ADS7816ECTR-ND	12-Bit, HS Micropower Sampling ADC	8-MSOP	1190.00/250		
ADS7816EVM	296-19911-ND	Evaluation Module for ADS7816	—	50.00	—	—
ADS7816P	ADS7816P-ND	12-Bit, HS Micropower Sampling ADC	8-Dip	5.18	4.17	3.80
ADS7816PB	ADS7816PB-ND	12-Bit, HS Micropower Sampling ADC	8-Dip	6.24	5.02	4.58
ADS7816PC	ADS7816PC-ND	12-Bit, HS Micropower Sampling ADC	8-Dip	6.30	5.17	4.67
ADS7816U	ADS7816U-ND	12-Bit, HS Micropower Sampling ADC	8-SOIC	6.24	5.02	4.58
ADS7816UB	ADS7816UB-ND	12-Bit, HS Micropower Sampling ADC	8-SOIC	6.53	5.36	4.83
ADS7816UC	ADS7816UC-ND	12-Bit, HS Micropower Sampling ADC	8-SOIC	7.13	5.85	5.28
ADS7817E/250	ADS7817ECT-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	6.75	5.52	4.95
ADS7817E/250	ADS7817ETR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	1040.75/250		
ADS7817EVM	296-19912-ND	Evaluation Module for ADS7817	—	50.00	—	—
ADS7817U	ADS7817U-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	6.58	5.29	4.82
ADS7817UB	ADS7817UB-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	6.02	4.84	4.41
ADS7817UC	ADS7817UC-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	7.50	6.15	5.55
ADS7818E/250	ADS7818ECT-ND	12-Bit, 500kHz ADC (±2 LSB)	8-MSOP	7.55	6.27	5.70
ADS7818E/250	ADS7818ETR-ND	12-Bit, 500kHz ADC (±2 LSB)	8-MSOP	1211.25/250		
ADS7818EB/250	ADS7818EBCT-ND	12-Bit, 500kHz ADC (±1 LSB)	8-MSOP	8.88	7.37	6.70
ADS7818EB/250	ADS7818EBTR-ND	12-Bit, 500kHz ADC (±1 LSB)	8-MSOP	1423.75/250		
ADS7818EVM	296-19913-ND	Evaluation Module for ADS7818	—	50.00	—	—
ADS7818P	ADS7818P-ND	12-Bit, 500kHz ADC (±1 LSB)	8-Dip	6.25	5.13	4.63
ADS7818PB	ADS7818PB-ND	12-Bit, 500kHz ADC (±1 LSB)	8-Dip	7.50	6.15	5.55
ADS7822E/250	ADS7822ECT-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	5.13	4.19	3.77
ADS7822E/250	ADS7822ETR-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	791.00/250		
ADS7822EB/250	ADS7822EBCT-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	5.55	4.54	4.07
ADS7822EB/250	ADS7822EBTR-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	855.75/250		
ADS7822EC/250	ADS7822ECCT-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	6.00	4.90	4.40
ADS7822EC/250	ADS7822ECTR-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-MSOP	925.00/250		
ADS7822EVM	296-18367-ND	Evaluation Module for ADS7822	—	50.00	—	—
ADS7822IDGKRQ1	296-24535-1-ND	12-Bit, Micropower Sampling ADC* ***NEW!***	8-MSOP	5.28	4.32	3.88
ADS7822IDGKRQ1	296-24535-2-ND	12-Bit, Micropower Sampling ADC* ***NEW!***	8-MSOP	5852.00/2,500		
ADS7822P	ADS7822P-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-Dip	4.12	3.31	3.02
ADS7822U	ADS7822U-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-SOIC	5.07	4.08	3.72
ADS7822UB	ADS7822UB-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-SOIC	5.46	4.39	4.00
ADS7822UC	ADS7822UC-ND	12-Bit, 2.7V, Micropwr Sampling ADC	8-SOIC	5.85	4.71	4.29
ADS7823-28EVM	296-18368-ND	Evaluation Module for ADS7823-28	—	50.00	—	—
ADS7823E/250	ADS7823E/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	8.75	7.26	6.60
ADS7823E/250	ADS7823E/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	1402.50/250		
ADS7823EB/250	ADS7823EB/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	10.20	8.47	7.70
ADS7823EB/250	ADS7823EB/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	1636.25/250		
ADS7824P	ADS7824P-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	34.40	29.24	27.09
ADS7824PB	ADS7824PB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip	37.70	32.05	29.69
ADS7824U	ADS7824U-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	36.80	31.28	28.98
ADS7824UB	ADS7824UB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	37.09	32.08	30.08
ADS7825P	ADS7825P-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	65.96	58.20	55.29
ADS7825U	ADS7825U-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	66.22	58.43	55.51
ADS7825UB	ADS7825UB-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	76.48	68.37	64.89
ADS7827EVM	296-18370-ND	Evaluation Module for ADS7827	—	50.00	—	—
ADS7828E/250	296-12402-1-ND	12-Bit, 8-Ch. Sampling ADC	16-TSSOP	10.20	8.47	7.70
ADS7828EB/250	296-12756-1-ND	12-Bit, 8-Ch. Sampling ADC	16-TSSOP	12.06	10.01	9.10

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA CONVERSION
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS7828EB/250	296-12756-2-ND	12-Bit, 8-Ch. Sampling ADC	16-TSSOP	1933.75/250		
ADS7829EVM	296-18371-ND	Evaluation Module for ADS7829	—	50.00	—	—
ADS7829IBDRBT	296-15245-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	6.60	5.39	4.84
ADS7829IDRBT	296-15246-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	5.10	4.17	3.74
ADS7829IBDRBT	296-15246-2-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	786.25/250		
ADS7830IPWR	296-25899-1-ND	8-Bit, 8-Channel ADC* ***NEW!***	16-TSSOP	4.20	3.43	3.08
ADS7830IPWR	296-25899-2-ND	8-Bit, 8-Channel ADC* ***NEW!***	16-TSSOP	4655.00/2,500		
ADS7830IPWT	296-16680-1-ND	8-Bit, 8-Channel ADC	16-TSSOP	4.95	4.05	3.63
ADS7830IPWT	296-16680-2-ND	8-Bit, 8-Channel ADC	16-TSSOP	763.25/250		
ADS7834EB/250	ADS7834EBCT-ND	12-Bit, 500kHz LP Sampling ADC	8-MSOP	8.88	7.37	6.70
ADS7835E/250	ADS7835ECT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP	8.48	7.04	6.40
ADS7835E/250	ADS7835ETR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP	1360.00/250		
ADS7835EB/250	ADS7835EBCT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP	9.94	8.25	7.50
ADS7835EB/250	ADS7835EBTR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP	1593.75/250		
ADS7841E	ADS7841E-ND	12-Bit, 4-Channel Serial Output ADC	16-QSOP	7.13	5.85	5.28
ADS7841EB	ADS7841EB-ND	12-Bit, 4-Channel Serial Output ADC	16-QSOP	8.33	6.83	6.17
ADS7841EIDBQRQ1	296-25373-1-ND	12-Bit, 4-Ch. Serial Output ADC* ***NEW!***	16-SSOP	7.42	6.16	5.60
ADS7841EIDBQRQ1	296-25373-2-ND	12-Bit, 4-Ch. Serial Output ADC* ***NEW!***	16-SSOP	9100.00/2,500		
ADS7841P	ADS7841P-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	6.30	5.17	4.67
ADS7841PB	ADS7841PB-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	7.48	6.13	5.54
ADS7842E	ADS7842E-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	9.25	7.59	6.85
ADS7842EB	ADS7842EB-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	10.88	8.92	8.05
ADS7843E	ADS7843E-ND	4-Wire Touch Screen Controller	16-QSOP	5.32	4.28	3.90
ADS7844E	ADS7844E-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	8.33	6.83	6.17
ADS7844E/2K5	ADS7844ETR-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	8970.00/2,500		
ADS7844EB	ADS7844EB-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	9.63	7.90	7.13
ADS7844E/2K5	ADS7844EBTR-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	10822.50/2,500		
ADS7844N	ADS7844N-ND	12-Bit, 8-Channel, 200kHz ADC	20-SSOP	8.33	6.83	6.17
ADS7844NB	ADS7844NB-ND	12-Bit, 8-Channel, 200kHz ADC	20-SSOP	9.63	7.90	7.13
ADS7845E	ADS7845E-ND	5-Wire Touch Screen Controller	16-QSOP	11.11	9.35	8.59
ADS7846E	ADS7846E-ND	4-Wire Touch Screen Controller	16-QSOP	6.52	5.25	4.78
ADS7846IRGVT	296-15076-1-ND	4-Wire Touch Screen Controller	16-VQFN	6.69	5.47	4.91
ADS7846N	ADS7846N-ND	4-Wire Touch Screen Controller	16-TSSOP	6.52	5.25	4.78
ADS7852Y/250	ADS7852YCT-ND	8-Ch., 12-Bit, Parallel Out ADC, ±2LSB	32-TQFP	10.47	8.69	7.90
ADS7852Y/250	ADS7852YTR-ND	8-Ch., 12-Bit, Parallel Out ADC, ±2LSB	32-TQFP	1678.75/250		
ADS7852YB/250	ADS7852YBCT-ND	8-Ch., 12-Bit, Parallel Out ADC, ±1LSB	32-TQFP	12.19	10.12	9.20
ADS7852YB/250	ADS7852YBTR-ND	8-Ch., 12-Bit, Parallel Out ADC, ±1LSB	32-TQFP	1955.00/250		
ADS7861E	ADS7861E-ND	Dual 12-Bit, 500kHz Simultaneous Sampling Serial ADC	24-QSOP	12.25	10.05	9.07
ADS7861EB	ADS7861EB-ND	Dual 12-Bit, 500kHz Simultaneous Sampling Serial ADC, ±1LSB	24-QSOP	12.54	10.55	9.69
ADS7861EVM	296-19915-ND	Evaluation Module for ADS7861	—	50.00	—	—
ADS7862Y/250	ADS7862YCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	15.18	12.87	11.88
ADS7862Y/250	ADS7862YTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	2557.50/250		
ADS7862YB/250	ADS7862YBCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	17.71	15.02	13.86
ADS7862YB/250	ADS7862YBTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	2983.75/250		
ADS7863IDBQ	296-23309-5-ND	Dual, 2MSPS, 12-Bit, 2+2 Ch. Simultaneous Sampling ADC	24-QSOP	12.76	10.73	9.86
ADS7864Y/250	ADS7864YCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	17.60	14.92	13.77
ADS7864Y/250	ADS7864YTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	2964.50/250		
ADS7864YB/250	ADS7864YBCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	19.90	16.87	15.57
ADS7864YB/250	ADS7864YBTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	3352.00/250		
ADS7866IDBVT	296-18216-1-ND	1.2V, 12-Bit, 200kSPS, Mini ADC	SOT-23-6	4.14	3.39	3.04
ADS7866IDBVT	296-18216-2-ND	1.2V, 12-Bit, 200kSPS, Mini ADC	SOT-23-6	638.25/250		
ADS7870EA	ADS7870EA-ND	12-Bit, Data Acquisition System	28-SSOP	11.00	9.25	8.50
ADS7870EVM	296-18374-ND	Evaluation Module for ADS7870	—	50.00	—	—
ADS7871EVM	296-18375-ND	Evaluation Module for ADS7871	—	50.00	—	—
ADS7871IDB	296-14757-5-ND	14-Bit, 48kSPS DAS with ADC	28-SSOP	13.20	11.10	10.20
ADS7881EVM	296-18376-ND	Evaluation Module for ADS7881	—	101.00	—	—
ADS7883SDBVT	296-23635-1-ND	12-Bit, 3MSPS, microPower, Mini SAR ADC	SOT-23-6	6.45	5.27	4.73
ADS7883SDBVT	296-23635-2-ND	12-Bit, 3MSPS, microPower, Mini SAR ADC	SOT-23-6	994.50/250		
ADS7884SDBVT	296-23311-1-ND	10-Bit, 3MSPS microPower, Mini SAR ADC	SOT-23-6	5.55	4.54	4.07
ADS7884SDBVT	296-23311-2-ND	10-Bit, 3MSPS microPower, Mini SAR ADC	SOT-23-6	855.75/250		
ADS7886EVM	296-19666-ND	Evaluation Module for ADS7886	—	50.00	—	—
ADS7886SBDBVT	296-19305-1-ND	12-Bit, 1MSPS microPower, Mini SAR ADC	SOT-23-6	5.67	4.64	4.16
ADS7886SBDBVT	296-19305-2-ND	12-Bit, 1MSPS microPower, Mini SAR ADC	SOT-23-6	874.25/250		
ADS7886SDCKT	296-19308-1-ND	12-Bit, 1MSPS microPower, Mini SAR ADC	SC70-6	5.04	4.12	3.70
ADS7886SDCKT	296-19308-2-ND	12-Bit, 1MSPS microPower, Mini SAR ADC	SC70-6	777.00/250		
ADS7887EVM	296-20815-ND	Evaluation Module for ADS7887	—	50.00	—	—
ADS7887SDCKT	296-18267-1-ND	10-Bit, 1.25MSPS microPower, Mini SAR ADC	SC70-6	4.41	3.61	3.24
ADS7888EVM	296-20816-ND	Evaluation Module for ADS7888	—	50.00	—	—
ADS7891EVM	296-17713-ND	Evaluation Module for ADS7891	—	101.00	—	—
ADS7891IPFBT	296-16682-1-ND	14-Bit, 3MSPS LP SAR ADC	48-TQFP	29.30	26.37	24.18
ADS7950SBDBT	296-23498-5-ND	12-Bit, 1MSPS, 4-Ch., Serial Interface ADC	30-TSSOP	7.50	6.15	5.55
ADS7950SBRGET	296-25838-1-ND	12-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	7.02	5.83	5.30
ADS7950SBRGET	296-25838-2-ND	12-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1126.25/250		
ADS7950SDBT	296-23499-5-ND	12-Bit, 1MSPS, 4-Ch., Serial Interface ADC	30-TSSOP	7.00	5.74	5.18
ADS7950SRGET	296-25839-1-ND	12-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	7.35	6.00	5.39
ADS7950SRGET	296-25839-2-ND	12-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1133.25/250		
ADS7951SBDBT	296-23500-5-ND	12-Bit, 1MSPS, 8-Ch., Serial Interface ADC	30-TSSOP	9.75	8.00	7.22
ADS7951SBRGET	296-25840-1-ND	12-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	9.14	7.59	6.90
ADS7951SBRGET	296-25840-2-ND	12-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1466.25/250		
ADS7951SDBT	296-23501-5-ND	12-Bit, 1MSPS, 8-Ch., Serial Interface ADC	30-TSSOP	9.00	7.38	6.66
ADS7951SRGET	296-25841-1-ND	12-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	8.35	6.93	6.30
ADS7951SRGET	296-25841-2-ND	12-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1338.75/250		
ADS7952SBDBT	296-23502-5-ND	12-Bit, 1MSPS, 12-Ch., Serial Interface ADC	38-TSSOP	12.13	9.95	8.98
ADS7952SBRHBT	296-25842-1-ND	12-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	11.40	9.46	8.60
ADS7952SBRHBT	296-25842-2-ND	12-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1827.50/250		
ADS7952SDBT	296-23503-5-ND	12-Bit, 1MSPS, 12-Ch., Serial Interface ADC	38-TSSOP	11.13	9.13	8.24
ADS7952SRHBT	296-25843-1-ND	12-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	10.34	8.58	7.80
ADS7952SRHBT	296-25843-2-ND	12-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1657.50/250		
ADS7953SBDBT	296-23504-5-ND	12-Bit, 1MSPS, 16-Ch., Serial Interface ADC	38-TSSOP	12.76	10.73	9.86
ADS7953SBRHBT	296-25844-1-ND	12-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	11.85	10.04	9.27
ADS7953SBRHBT	296-25844-2-ND	12-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1995.75/250		
ADS7953SDBT	296-23505-5-ND	12-Bit, 1MSPS, 16-Ch., Serial Interface ADC	38-TSSOP	11.77	9.90	9.10
ADS7953SRHBT	296-25845-1-ND	12-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	12.46	10.34	9.40
ADS7953SRHBT	296-25845-2-ND	12-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1997.50/250		
ADS7954SDBT	296-23506-5-ND	10-Bit, 1MSPS, 4-Ch., Serial Interface ADC	30-TSSOP	6.38	5.23	4.72
ADS7954SRGET	296-25846-1-ND	10-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	6.75	5.51	4.95
ADS7954SRGET	296-25846-2-ND	10-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1040.75/250		
ADS7955SDBT	296-23507-5-ND	10-Bit, 1MSPS, 8-Ch., Serial Interface ADC	30-TSSOP	8.13	6.67	6.02
ADS7955SRGET	296-25847-1-ND	10-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	7.55	6.27	5.70
ADS7955SRGET	296-25847-2-ND	10-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	1211.25/250		
ADS7956SDBT	296-23508-5-ND	10-Bit, 1MSPS, 12-Ch., Serial Interface ADC	38-TSSOP	10.00	8.20	7.40
ADS7956SRHBT	296-25848-1-ND	10-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	9.28	7.70	7.00
ADS7956SRHBT	296-25848-2-ND	10-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1487.50/250		
ADS7957SDBT	296-23509-5-ND	10-Bit, 1MSPS, 16-Ch., Serial Interface ADC	38-TSSOP	11.75	9.64	8.70
ADS7957SRHBT	296-25849-1-ND	10-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	10.87	9.02	8.20
ADS7957SRHBT	296-25849-2-ND	10-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1742.50/250		
ADS7958SDBT	296-23510-5-ND	8-Bit, 1MSPS, 4-Ch., Serial Interface ADC	30-TSSOP	4.20	3.38	3.08
ADS7958SRGET	296-25850-1-ND	8-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	4.05	3.31	2.97
ADS7958SRGET	296-25850-2-ND	8-Bit, 1MSPS, 4-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	624.50/250		
ADS7959SDBT	296-23511-5-ND	8-Bit, 1MSPS, 8-Ch., Serial Interface ADC	30-TSSOP	5.60	4.50	4.10
ADS7959SRGET	296-25851-1-ND	8-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	5.25	4.29	3.85
ADS7959SRGET	296-25851-2-ND	8-Bit, 1MSPS, 8-Ch. Serial Interface ADC* ***NEW!***	24-VQFN	809.50/250		
ADS7960SDBT	296-23512-5-ND	8-Bit, 1MSPS, 12-Ch., Serial Interface ADC	38-TSSOP	6.25	5.13	4.63
ADS7960SRHBT	296-25852-1-ND	8-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	6.45	5.27	4.73
ADS7960SRHBT	296-25852-2-ND	8-Bit, 1MSPS, 12-Ch. Serial Interface ADC* ***NEW!***	32-QFN	994.50/250		
ADS7961SDBT	296-23513-5-ND	8-Bit, 1MSPS, 16-Ch., Serial Interface ADC	38-TSSOP	7.38	6.05	5.46
ADS7961SRHBT	296-25853-1-ND	8-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	6.89	5.72	5.20
ADS7961SRHBT	296-25853-2-ND	8-Bit, 1MSPS, 16-Ch. Serial Interface ADC* ***NEW!***	32-QFN	1105.00/250		
ADS8201IRGET	296-25443-1-ND	12-Bit, 100KSPS, ADC* ***NEW!***	24-VQFN	8.48	7.04	6.40
ADS8201IRGET	296-25443-2-ND	12-Bit, 100KSPS, ADC* ***NEW!***	24-VQFN	1360.00/250		
ADS8254IBRGCT	296-24310-1-ND	16-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	49.40	43.16	40.30
ADS8254IBRGCT	296-24310-2-ND	16-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	9100.00/250		
ADS8254IRGCT	296-24311-1-ND	16-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	38.00	33.20	31.00
ADS8254IRGCT	296-24311-2-ND	16-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	7000.00/250		
ADS8284IBRGCT	296-24312-1-ND	18-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	54.25	48.05	44.95
ADS8284IBRGCT	296-24312-2-ND	18-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	10462.50/250		
ADS8284IRGCT	296-24313-1-ND	18-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	44.65	39.01	36.43
ADS8284IRGCT	296-24313-2-ND	18-Bit, 1MSPS, 4-Ch., Parallel Interface ADC* ***NEW!***	64-VQFN	8225.00/250		
ADS8317IBDGKT	296-22668-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	16.84	14.28	13.18
ADS8317IBDGKT	296-22668-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	2836.50/250		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS8317IBDRBT	296-25255-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	16.84	14.28	13.18
ADS8317IBDRBT	296-25255-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	2836.50/250		
ADS8317IDRBT	296-25256-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	12.56	10.65	9.83
ADS8317IDRBT	296-25256-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	2115.75/250		
ADS8319IBDGST	296-24061-1-ND	16-Bit, 500kSPS, microPower SAR ADC	10-MSOP	18.35	15.57	14.37
ADS8320E/2K5	296-23650-1-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	12.96	10.76	9.78
ADS8320E/2K5	296-23650-2-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	15892.50/2,500		
ADS8320E/250	ADS8320ECT-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	13.00	11.02	10.17
ADS8320E/250	ADS8320ETR-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	2189.50/250		
ADS8320EB/250	ADS8320EBCT-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	14.65	12.43	11.47
ADS8320EB/250	ADS8320EBTR-ND	16-Bit, High Speed, 2.7V to 5V microPower Sampling ADC	8-MSOP	2468.50/250		
ADS8320EVM	296-19916-ND	Evaluation Module for ADS8320	—	50.00	—	—
ADS8321E/250	ADS8321ECT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	13.69	11.61	10.71
ADS8321E/250	ADS8321ETR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	2305.75/250		
ADS8321EB/250	ADS8321EBCT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	15.41	13.07	12.06
ADS8321EB/250	ADS8321EBTR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	2596.25/250		
ADS8321EVM	296-18377-ND	Evaluation Module for ADS8321	—	50.00	—	—
ADS8322EVM	296-19917-ND	Evaluation Module for ADS8322	—	101.00	—	—
ADS8322Y/250CT	ADS8322Y/250CT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	20.50	18.45	16.92
ADS8322Y/250TR	ADS8322Y/250TR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	3715.75/250		
ADS8322Y/2KCT	ADS8322Y/2KCT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	20.47	17.36	16.02
ADS8322Y/2KTR	ADS8322Y/2KTR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	22695.00/2,000		
ADS8322YB/250	296-13772-1-ND	16-Bit, 500kHz, microPower Sampling ADC	32-TQFP	25.20	22.68	20.79
ADS8322YB/250	296-13772-2-ND	16-Bit, 500kHz, microPower Sampling ADC	32-TQFP	4567.50/250		
ADS8323EVM	296-19918-ND	Evaluation Module for ADS8323	—	101.00	—	—
ADS8323YB/250	ADS8323YB/250CT-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	22.89	19.41	17.91
ADS8323YB/250	ADS8323YB/250TR-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	3855.75/250		
ADS8323Y/250	ADS8323Y/250CT-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	18.86	15.99	14.76
ADS8323Y/250	ADS8323Y/250TR-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	3177.50/250		
ADS8324E/250	296-13064-1-ND	14-Bit, High Speed, 1.8V, microPower Sampling ADC	8-MSOP	12.08	10.04	9.12
ADS8324EVM	296-19919-ND	Evaluation Module for ADS8324	—	50.00	—	—
ADS8325EVM	296-18378-ND	Evaluation Module for ADS8325	—	50.00	—	—
ADS8325IBDGKT	ADS8325IBDGKTCT-ND	16-Bit, High Speed, 2.7V to 5.5V ADC	8-MSOP	16.84	14.28	13.18
ADS8325IBDGKT	ADS8325IBDGKTTR-ND	16-Bit, High Speed, 2.7V to 5.5V ADC	8-MSOP	2836.50/250		
ADS8325IBDRBT	296-15722-1-ND	16-Bit, High Speed, 2.7V to 5.5V ADC	8-SON	16.84	14.28	13.18
ADS8326IBDGKT	296-21946-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	16.84	14.28	13.18
ADS8326IBDGKT	296-21946-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	2836.50/250		
ADS8326IBDRBT	296-25257-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	16.84	14.28	13.18
ADS8326IBDRBT	296-25257-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	2836.50/250		
ADS8326IDGKT	296-21947-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	12.56	10.65	9.83
ADS8326IDGKT	296-21947-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC	8-MSOP	2115.75/250		
ADS8326IDRBT	296-25258-1-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	12.56	10.65	9.83
ADS8326IDRBT	296-25258-2-ND	16-Bit, High Speed, 2.7V to 5.5V microPower Sampling ADC* ***NEW!***	8-SON	2115.75/250		
ADS8327IBPW	296-19763-ND	16-Bit, 500kSPS Low Power ADC	16-TSSOP	16.72	14.06	12.92
ADS8327IPW	296-19764-ND	16-Bit, 500kSPS Low Power ADC	16-TSSOP	14.52	12.21	11.22
ADS8327IRSAT	296-21531-1-ND	16-Bit, 500kSPS Low Power ADC	16-VQFN	14.61	12.39	11.43
ADS8328IBPW	296-19765-ND	Dual, LP, 16-Bit, 500kSPS ADC	16-TSSOP	18.04	15.17	13.94
ADS8328IPW	296-19766-ND	Dual, LP, 16-Bit, 500kSPS ADC	16-TSSOP	15.84	13.32	12.24
ADS8329IBPW	296-23697-5-ND	16-Bit, 1MHz Single Unipolar ADC	16-TSSOP	20.30	17.26	15.99
ADS8329IBRSAT	296-21363-1-ND	16-Bit, 1MHz Single Unipolar ADC	16-VQFN	22.54	19.11	17.64
ADS8329IBRSAT	296-21363-2-ND	16-Bit, 1MHz Single Unipolar ADC	16-VQFN	3797.50/250		
ADS8329IPW	296-23698-5-ND	16-Bit, 1MHz Single Unipolar ADC	16-TSSOP	19.03	16.01	14.71
ADS8329IRSAT	296-21364-1-ND	16-Bit, 1MHz Single Unipolar ADC	16-VQFN	19.09	16.19	14.94
ADS8329IRSAT	296-21364-2-ND	16-Bit, 1MHz Single Unipolar ADC	16-VQFN	3216.25/250		
ADS8330IBPW	296-23699-5-ND	16-Bit, 1MHz Dual Unipolar ADC	16-TSSOP	22.20	18.87	17.49
ADS8330IBRSAT	296-21365-1-ND	16-Bit, 1MHz Dual Unipolar ADC	16-VQFN	21.20	19.08	17.49
ADS8330IBRSAT	296-21365-2-ND	16-Bit, 1MHz Dual Unipolar ADC	16-VQFN	3842.50/250		
ADS8330IPW	296-23704-5-ND	16-Bit, 1MHz Dual Unipolar ADC	16-TSSOP	20.13	16.93	15.56
ADS8330IRSAT	296-21366-1-ND	16-Bit, 1MHz Dual Unipolar ADC	16-VQFN	20.13	17.07	15.75
ADS8330IRSAT	296-21366-2-ND	16-Bit, 1MHz Dual Unipolar ADC	16-VQFN	3390.75/250		
ADS8331IBRGER	296-25860-1-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	14.95	12.68	11.70
ADS8331IBRGER	296-25860-2-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	24864.00/3,000		
ADS8331IBRGET	296-25827-1-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	16.91	14.33	13.23
ADS8331IBRGET	296-25827-2-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	2848.25/250		
ADS8331IRGER	296-25861-1-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	12.65	10.73	9.90
ADS8331IRGER	296-25861-2-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	21039.00/3,000		
ADS8331IRGET	296-25862-1-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	14.61	12.38	11.43
ADS8331IRGET	296-25862-2-ND	16-Bit, 4-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	2460.75/250		
ADS8332IBRGET	296-25651-1-ND	16-Bit, 8-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	19.55	16.58	15.30
ADS8332IBRGET	296-25651-2-ND	16-Bit, 8-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	3293.75/250		
ADS8332IRGET	296-25652-1-ND	16-Bit, 8-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	17.25	14.63	13.50
ADS8332IRGET	296-25652-2-ND	16-Bit, 8-Ch., 500kSPS ADC* ***NEW!***	24-VQFN	2906.25/250		
ADS8341E	ADS8341E-ND	16-Bit, 4-Channel, Serial ADC	16-QSOP	19.58	16.47	15.13
ADS8341EB	ADS8341EB-ND	16-Bit, 4-Channel, Serial ADC	16-QSOP	20.00	17.00	15.75
ADS8342EVM	296-18379-ND	Evaluation Module for ADS8342	—	101.00	—	—
ADS8342IPFBT	296-15078-1-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	31.30	28.17	25.83
ADS8342IPFBT	296-15078-2-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	5673.25/250		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS8343E	ADS8343E-ND	16-Bit, 4-Channel, Serial ADC	16-QSOP	19.69	16.56	15.22
ADS8343EB	ADS8343EB-ND	16-Bit, 4-Channel, Serial ADC	16-QSOP	18.92	15.91	14.62
ADS8344E	ADS8344E-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	21.12	17.76	16.32
ADS8344EB	ADS8344EB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	23.20	19.72	18.27
ADS8344EVM	296-19920-ND	Evaluation Module for ADS8344	—	50.00	—	—
ADS8344N	ADS8344N-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	21.12	17.76	16.32
ADS8344NB	ADS8344NB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	23.20	19.72	18.27
ADS8345EVM	296-19921-ND	Evaluation Module for ADS8345	—	50.00	—	—
ADS8345NB	296-11626-5-ND	16-Bit, 8-Channel ADC	20-SSOP	21.12	17.76	16.32
ADS8361EVM	296-19922-ND	Evaluation Module for ADS8361	—	50.00	—	—
ADS8361IDBQ	296-13812-5-ND	Dual, 500kHz, 16-Bit, Simultaneous Sampling ADC	24-QSOP	21.00	17.85	16.54
ADS8364Y/250	296-13449-1-ND	16-Bit, 250kSPS, 6-Channel Simultaneous Sampling ADC	64-TQFP	39.20	35.28	32.34
ADS8364Y/250	296-13449-2-ND	16-Bit, 250kSPS, 6-Channel Simultaneous Sampling ADC	64-TQFP	7105.00/250		
ADS8365IPAGR	296-20741-1-ND	16-Bit, 250kSPS 6-Ch. SAR ADC	64-TQFP	32.50	29.25	26.82
ADS8365IPAGR	296-20741-2-ND	16-Bit, 250kSPS 6-Ch. SAR ADC	64-TQFP	31687.50/1,500		
ADS8370IBRHPT	296-18270-ND	Evaluation Module for ADS8370	—	101.00	—	—
ADS8371EVM	296-17122-ND	Evaluation Module for ADS8371	—	101.00	—	—
ADS8372EVM	296-18273-ND	Evaluation Module for ADS8372	—	101.00	—	—
ADS8380EVM	296-18380-ND	Evaluation Module for ADS8380	—	101.00	—	—
ADS8381EVM	296-17397-ND	Evaluation Module for ADS8381	—	101.00	—	—
ADS8382EVM	296-17514-ND	Evaluation Module for ADS8382	—	101.00	—	—
ADS8382IRHPT	296-17520-1-ND	18-Bit, 600kHz MPU Sampling ADC	28-VQFN	33.00	29.70	27.23
ADS8383EVM	296-18381-ND	Evaluation Module for ADS8383	—	101.00	—	—
ADS8383IBPFBT	296-14065-1-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	50.16	43.83	40.92
ADS8383IBPFBT	296-14065-2-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	9240.00/250		
ADS8401IBPFBT	296-14067-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	55.16	48.19	45.00
ADS8401IBPFBT	296-14067-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	10160.50/250		
ADS8401IPFBT	296-14068-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	34.26	30.84	28.27
ADS8401IPFBT	296-14068-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	6209.75/250		
ADS8402IBPFBT	296-14069-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	53.18	47.11	44.07
ADS8402IBPFBT	296-14069-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	10256.75/250		
ADS8405EVM	296-17635-ND	Evaluation Module for ADS8405	—	101.00	—	—
ADS8406EVM	296-17410-ND	Evaluation Module for ADS8406	—	101.00	—	—
ADS8406IBPFBT	296-17355-ND	16-Bit, 1.25MSPS Sampling ADC	48-TQFP	54.95	47.52	44.55
ADS8406IPFBT	296-17356-ND	16-Bit, 1.25MSPS Sampling ADC	48-TQFP	39.80	33.83	31.35
ADS8411EVM	296-18384-ND	Evaluation Module for ADS8411	—	101.00	—	—
ADS8412EVM	296-18385-ND	Evaluation Module for ADS8412	—	152.00	—	—
ADS8412IPFBT	296-15255-1-ND	16-Bit, 2MSPS Unipolar Diff. Input ADC	48-TQFP	53.11	47.05	44.01
ADS8412IPFBT	296-15255-2-ND	16-Bit, 2MSPS Unipolar Diff. Input ADC	48-TQFP	10243.25/250		
ADS8422IBPFBT	296-21325-1-ND	16-Bit, 4MSPS ADC	48-TQFP	58.54	51.85	48.51
ADS8422IBPFBT	296-21325-2-ND	16-Bit, 4MSPS ADC	48-TQFP	11289.50/250		
ADS8422IPFBT	296-21326-1-ND	16-Bit, 4MSPS ADC	48-TQFP	48.36	42.25	39.45
ADS8422IPFBT	296-21326-2-ND	16-Bit, 4MSPS ADC	48-TQFP	8907.50/250		
ADS8472IBRGZT	296-21367-1-ND	16-Bit, 1MSPS, Pseudo-Bipolar, Fully Differential ADC	48-VQFN	38.86	33.95	31.70
ADS8472IBRGZT	296-21367-2-ND	16-Bit, 1MSPS, Pseudo-Bipolar, Fully Differential ADC	48-VQFN	7157.50/250		
ADS8481IRGZT	296-19659-1-ND	18-Bit, 1MSPS ADC	48-VQFN	33.40	30.06	27.56
ADS8481IRGZT	296-19659-2-ND	18-Bit, 1MSPS ADC	48-VQFN	6053.75/250		
ADS8482IBRGZT	296-19861-1-ND	18-Bit, 1MSPS, Pseudo-Bipolar, Fully Diff. Input ADC	48-VQFN	45.41	39.68	37.05
ADS8482IRGZT	296-19862-1-ND	18-Bit, 1MSPS, Pseudo-Bipolar, Fully Diff. Input ADC	48-VQFN	34.20	30.78	28.22
ADS8484IBRGZT	296-23014-1-ND	18-Bit, 1.25MSPS, Pseudo-Bipolar, Fully Diff. Input Sampling ADC	48-VQFN	52.94	46.89	43.87
ADS8484IBRGZT	296-23014-2-ND	18-Bit, 1.25MSPS, Pseudo-Bipolar, Fully Diff. Input Sampling ADC	48-VQFN	10209.50/250		
ADS8504IBDW	296-18219-5-ND	12-Bit, 250kSPS Sampling CMOS ADC	28-SOIC	25.00	21.25	19.69
ADS8505EVM	296-20817-ND	Evaluation Module for ADS8505	—	101.00	—	—
ADS8505IBDB	296-18675-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SSOP	39.90	33.92	31.43
ADS8505IBDW	296-18676-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SOIC	39.90	33.92	31.43
ADS8505IDB	296-18677-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SSOP	29.90	25.42	23.55
ADS8505IDW	296-18678-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SOIC	29.90	25.42	23.55
ADS8506IBDW	296-22954-5-ND	12-Bit, 40kSPS, LP Sampling ADC	28-SOIC	21.78	18.32	16.83
ADS8506IDW	296-22955-5-ND	12-Bit, 40kSPS, LP Sampling ADC	28-SOIC	18.48	15.54	14.28
ADS8507IBDW	296-21369-5-ND	16-Bit, 40kSPS, LP Sampling ADC	28-SOIC	37.00	32.00	30.00
ADS8507IDW	296-21370-5-ND	16-Bit, 40kSPS, LP Sampling ADC	28-SOIC	30.00	25.50	23.63
ADS8508IBDW	296-18679-5-ND	12-Bit, 250kSPS Serial CMOS Sampling ADC	20-SOIC	23.90	20.32	18.83
ADS8509EVM	296-20818-ND	Evaluation Module for ADS8509	—	50.00	—	—
ADS8509IBDB	296-18084-5-ND	16-Bit, 250kSPS Serial CMOS ADC	28-SSOP	33.90	28.82	26.70
ADS8509IBDW	296-18085-5-ND	16-Bit, 250kSPS Serial CMOS ADC	20-SOIC	33.90	28.82	26.70
ADS8509IDB	296-18086-5-ND	16-Bit, 250kSPS Serial CMOS ADC	28-SSOP	23.90	20.32	18.83
ADS8509IDW	296-18087-5-ND	16-Bit, 250kSPS Serial CMOS ADC	20-SOIC	23.90	20.32	18.83
ADS8512IBDW	296-23514-5-ND	12-Bit, 40kSPS LP ADC	16-SOIC	21.78	18.32	16.83
ADS8512IDW	296-23515-5-ND	12-Bit, 40kSPS LP ADC	16-SOIC	18.48	15.54	14.28
ADS8513IBDW	296-23165-5-ND	16-Bit, 40kSPS LP Sampling ADC	16-SOIC	38.00	32.30	29.93
ADS8513IDW	296-23166-5-ND	16-Bit, 40kSPS LP Sampling ADC	16-SOIC	28.00	23.80	22.05
ADS8515IBDB	296-21985-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SSOP	37.90	32.22	29.85
ADS8515IDB	296-21986-5-ND	16-Bit, 250kSPS Sampling CMOS ADC	28-SSOP	25.90	22.02	20.40
ADS8517IBDW	296-23811-5-ND	16-Bit, 200kSPS LP ADC	28-SOIC	37.93	32.80	30.75
ADS8517IBPW	296-24858-5-ND	16-Bit, 200kSPS LP ADC* ***NEW!***	28-TSSOP	37.93	32.80	30.75
ADS8517IDW	296-23812-5-ND	16-Bit, 200kSPS LP ADC	28-SOIC	30.00	25.50	23.63
ADS8517IPW	296-24571-5-ND	16-Bit, 200kSPS LP ADC* ***NEW!***	28-TSSOP	30.00	25.50	23.63
ADS8519IBDB	296-23199-5-ND	16-Bit, 250kSPS Serial CMOS Sampling ADC	28-SSOP	38.76	33.52	31.43
ADS8519IDB	296-23200-5-ND	16-Bit, 250kSPS Serial CMOS Sampling ADC	28-SSOP	29.90	25.42	23.55
ADS8556IPM	296-24972-ND	16-Bit, 6 Channel 630kSPS Parallel Sampling ADC* ***NEW!***	64-LQFP	36.00	30.60	28.35
ADS8557IPM	296-24973-ND	14-Bit, 6 Channel 670kSPS Parallel Sampling ADC* ***NEW!***	64-LQFP	25.90	22.02	20.40

* ***RoHS Compliant***

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS8558IPM	296-24974-ND	12-Bit, 6 Channel 730kSPS Parallel Sampling ADC* ***NEW!***	64-LQFP	21.50	18.28	16.94
AFE1230E	AFE1230E-ND	G.SHDSL/HDSL2 Analog Front End	28-SSOP	39.24	33.94	31.82
AFE5801IRGCT	296-24307-1-ND	8-Channel Analog Front End* ***NEW!***	64-VQFN	81.60	72.00	68.40
AFE5801IRGCT	296-24307-2-ND	8-Channel Analog Front End* ***NEW!***	64-VQFN	15960.00/250		
AFE5851IRGCT	296-24233-1-ND	16-Channel Analog Front End* ***NEW!***	64-QFN	133.30	120.40	116.10
AFE5851IRGCT	296-24233-2-ND	16-Channel Analog Front End* ***NEW!***	64-QFN	27681.25/250		
AFE8405IZDQ	296-24482-ND	14-Bit, 85MSPS Single ADC, 8-Channel Wideband Receiver* ***NEW!***	484-BGA	66.66	59.59	56.56
AFE8406IZDQ	296-19537-ND	14-Bit, 85MSPS Dual ADC, 8-Channel Wideband Receiver	484-BGA	105.60	94.05	89.10
DDC101U	DDC101U-ND	20-Bit, ADC	24-SOIC	53.71	46.45	43.55
DDC112U	DDC112U-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	28.20	23.97	22.21
DDC112UK	DDC112UK-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	35.20	29.92	27.72
DDC112Y/250	296-16747-1-ND	20-Bit Dual Current Input ADC	32-TQFP	33.40	30.06	27.56
DDC114IRTCT	296-17162-1-ND	20-Bit Quad Input ADC	48-VQFN	39.00	35.10	32.18
DDC114IRTCT	296-17162-2-ND	20-Bit Quad Input ADC	48-VQFN	7068.75/250		
DDC118IRTCT	296-18258-1-ND	20-Bit Octal Current ADC	48-VQFN	58.63	51.93	48.58
DDC118IRTCT	296-18258-2-ND	20-Bit Octal Current ADC	48-VQFN	11306.25/250		
DDC232CGXGT	296-21225-1-ND	32-Channel, Current Input ADC	64-BGA	117.98	103.68	98.32
DDC232CGXGT	296-21225-2-ND	32-Channel, Current Input ADC	64-BGA	23237.50/250		
DDC316CGXGT	296-23356-1-ND	16-Channel Current Input ADC	64-BGA	84.58	74.63	70.90
DDC316CGXGT	296-23356-2-ND	16-Channel Current Input ADC	64-BGA	16542.00/250		
DEM-CIB	296-18428-ND	Eval. Fixture Computer Interface Board	—	502.92	—	—
MSC1210Y2PAGT	296-27664-1-ND	Prec., ADC with 8051 Microcontroller and Flash Memory	64-TQFP	26.50	23.85	21.87
MSC1210Y2PAGT	296-27664-2-ND	Prec., ADC with 8051 Microcontroller and Flash Memory	64-TQFP	4803.25/250		
MSC1210Y3PAGT	296-27665-1-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	23.68	21.32	19.54
MSC1210Y3PAGT	296-27665-2-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	4292.00/250		
MSC1210Y4PAGT	296-27666-1-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	25.56	23.01	21.09
MSC1210Y4PAGT	296-27666-2-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	4632.75/250		
MSC1210Y5PAGT	296-27667-1-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	28.30	25.47	23.35
MSC1210Y5PAGT	296-27667-2-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	5129.50/250		
MSC1211Y2PAGT	296-14759-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	55.80	48.76	45.53
MSC1211Y5PAGT	296-14762-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	61.04	54.07	50.58
MSC1211Y5PAGT	296-14762-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	11772.00/250		
MSC1213Y5PAGT	296-17432-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	51.09	44.64	41.68
MSC1213Y5PAGT	296-17432-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	9411.50/250		
MSC1214Y5PAGT	296-17436-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	49.55	43.30	40.43
MSC1214Y5PAGT	296-17436-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	9128.00/250		
THS14F01IPFB	296-2843-ND	14-Bit, 1MSPS, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	27.10	23.04	21.35
THS14F03IPFB	296-2845-ND	14-Bit, 3MSPS, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	34.50	29.33	27.17
THS0842EVM	296-9998-ND	Evaluation Module for THS0842	—	101.00	—	—
THS0842IPFB	296-2171-ND	8-Bit, 40MSPS, 2-Ch. 3.3V Parallel ADC	48-TQFP	15.95	13.42	12.33
THS1007IDA	296-2823-5-ND	10-Bit, 6MSPS, 4-Ch. 5V Parallel ADC	32-TSSOP	11.99	10.09	9.27
THS1009IDA	296-2825-5-ND	10-Bit, 8MSPS, 2-Ch. Parallel ADC	32-TSSOP	11.75	9.64	8.70
THS1030CDW	296-2173-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-SOIC	11.38	9.33	8.42
THS1030CPW	296-25299-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC* ***NEW!***	28-TSSOP	11.38	9.33	8.42
THS1030EVM	296-10003-ND	Evaluation Module for THS1030	—	101.00	—	—
THS1030IDW	296-2826-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-SOIC	12.00	9.84	8.88
THS1030IPW	296-2827-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-TSSOP	12.00	9.84	8.88
THS1031CDW	296-2174-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-SOIC	11.00	9.25	8.50
THS1031EVM	296-10004-ND	Evaluation Module for THS1031	—	101.00	—	—
THS1031IDW	296-2828-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-SOIC	11.66	9.81	9.01
THS1031IPW	296-2829-5-ND	10-Bit, 30MSPS, 3V~5.5V ADC	28-TSSOP	11.66	9.81	9.01
THS1040IDW	296-13329-5-ND	3V, 10-Bit, 40MSPS CMOS ADC	28-SOIC	18.15	15.27	14.03
THS1040IPW	296-13330-5-ND	3V, 10-Bit, 40MSPS CMOS ADC	28-TSSOP	18.15	15.27	14.03
THS1041CPW	296-25288-5-ND	10-Bit, 40-MSPS ADC with PGA and Clamp* ***NEW!***	28-TSSOP	18.15	15.27	14.03
THS1041IDW	296-13331-5-ND	10-Bit, 40MSPS ADC w/PGA, Clamp	28-SOIC	19.25	16.19	14.88
THS1041IPW	296-13332-5-ND	10-Bit, 40MSPS ADC w/PGA, Clamp	28-TSSOP	19.25	16.19	14.88
THS1060CPHP	296-2175-ND	10-Bit, 60MSPS, 1-Channel, 5V IF Sampling ADC	48-HTQFP	10.36	8.50	7.67
THS1206CDA	296-2176-5-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	23.50	19.98	18.51
THS1206IDA	296-2833-5-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	27.00	22.95	21.27
THS1206M-EVM	296-16737-ND	Evaluation Module for THS1206M	—	50.00	—	—
THS1207IDA	296-2834-5-ND	12-Bit, 6MSPS, 4-Channel 5V IF Sampling ADC	32-TSSOP	21.50	18.28	16.94
THS1209IDA	296-2836-5-ND	12-Bit, 8MSPS, 2-Channel 8V IF Sampling ADC	32-TSSOP	23.30	19.81	18.35
THS1215IDW	296-10010-5-ND	12-Bit, 15MSPS, LP ADC w/ENOB	28-SOIC	30.20	25.67	23.79
THS1215IPW	296-10011-5-ND	12-Bit, 15MSPS, LP ADC w/ENOB	28-TSSOP	25.80	21.93	20.32
THS1230IDW	296-2837-5-ND	12-Bit, 30MSPS, 3.3V 1-Ch. ADC	28-SOIC	37.90	32.22	29.85
THS1230IPW	296-2838-5-ND	12-Bit, 30MSPS, 3.3V 1-Ch. ADC	28-TSSOP	32.30	27.46	25.44
THS1240IPHP	296-2839-ND	12-Bit, 40MSPS, 5V IF Sampling ADC	48-HTQFP	25.62	21.78	20.18
THS1401IPFB	296-2840-ND	14-Bit, 1MSPS, 1-Ch. 3.3V ADC w/Ref.	48-TQFP	25.20	21.42	19.85
THS1403IPFB	296-2841-ND	14-Bit, 3MSPS, 1-Ch. 3.3V ADC w/Ref.	48-TQFP	30.60	26.01	24.10
THS1403QPHP	296-10016-ND	14-Bit, 3MSPS ADC	48-HTQFP	31.70	26.95	24.97
THS1408IPFB	296-2842-ND	14-Bit, 8MSPS, 4-Ch. 3.3V ADC w/Ref.	48-TQFP	37.09	32.08	30.08
THS10064CDA	296-2172-5-ND	10-Bit, 6MSPS, 4-Ch., 3-5V Sampling ADC	32-TSSOP	13.86	11.66	10.71

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
THS10064IDA	296-2822-5-ND	10-Bit, 6MSPS, 4-Ch., 3-5V Sampling ADC	32-TSSOP	13.53	11.38	10.46
THS10082IDA	296-2824-5-ND	10-Bit, 8MSPS 2-Ch. Parallel ADC	32-TSSOP	11.99	10.09	9.27
THS12082IDA	296-2835-5-ND	12-Bit, 8MSPS 2-Ch. Parallel ADC	32-TSSOP	28.80	24.48	22.68
TLC0820ACDB	296-2846-5-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	6.52	5.25	4.78
TLC0820ACDBR	296-2846-1-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	5.85	4.78	4.29
TLC0820ACDW	296-2847-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	6.52	5.25	4.78
TLC0820ACFN	296-2848-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	5.46	4.39	4.00
TLC0820ACN	296-2849-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	5.71	4.59	4.19
TLC0820AIDW	296-2850-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	6.52	5.25	4.78
TLC0820AIFN	296-2851-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	5.46	4.39	4.00
TLC0820AIN	296-2852-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	5.71	4.59	4.19
TLC0831CD	296-2853-5-ND	8-Bit, 31kSPS, 1-Ch. 5V Serial ADC	8-SOIC	4.54	3.65	3.33
TLC0831CP	296-2854-5-ND	8-Bit, 31kSPS, 1-Ch. 5V Serial ADC	8-Dip	4.00	3.22	2.94
TLC0831ID	296-2855-5-ND	8-Bit, 31kSPS, 1-Ch. 5V Serial ADC	8-SOIC	4.79	3.85	3.51
TLC0831IP	296-2856-5-ND	8-Bit, 31kSPS, 1-Ch. 5V Serial ADC	8-Dip	4.26	3.42	3.12
TLC0832CD	296-2857-5-ND	8-Bit, 22kSPS, 2-Ch. 5V Serial ADC	8-SOIC	4.54	3.65	3.33
TLC0832CP	296-2858-5-ND	8-Bit, 22kSPS, 2-Ch. 5V Serial ADC	8-Dip	3.72	3.00	2.73
TLC0832ID	296-2859-5-ND	8-Bit, 22kSPS, 2-Ch. 5V Serial ADC	8-SOIC	4.79	3.85	3.51
TLC0832IP	296-2860-5-ND	8-Bit, 22kSPS, 2-Ch. 5V Serial ADC	8-Dip	4.00	3.22	2.94
TLC0834CD	296-2861-5-ND	8-Bit, 20kSPS, 4-Ch. 5V Serial ADC	14-SOIC	4.65	3.74	3.41
TLC0834CN	296-2862-5-ND	8-Bit, 20kSPS, 4-Ch. 5V Serial ADC	14-Dip	4.12	3.31	3.02
TLC0834ID	296-2863-5-ND	8-Bit, 20kSPS, 4-Ch. 5V Serial ADC	14-SOIC	5.07	4.08	3.72
TLC0834IN	296-2864-5-ND	8-Bit, 20kSPS, 4-Ch. 5V Serial ADC	14-Dip	4.40	3.54	3.22
TLC0838CDW	296-2865-5-ND	8-Bit, 20kSPS, 8-Ch. 5V Serial ADC	20-SOIC	4.65	3.74	3.41
TLC0838CN	296-2866-5-ND	8-Bit, 20kSPS, 8-Ch. 5V Serial ADC	20-Dip	4.12	3.31	3.02
TLC0838IDW	296-2867-5-ND	8-Bit, 20kSPS, 8-Ch. 5V Serial ADC	20-SOIC	5.07	4.08	3.72
TLC0838IN	296-2868-5-ND	8-Bit, 20kSPS, 8-Ch. 5V Serial ADC	20-Dip	4.40	3.54	3.22
TLC0838IPW	296-2869-5-ND	8-Bit, 20kSPS, 8-Ch. 5V Serial ADC	20-TSSOP	5.07	4.08	3.72
TLC540IDW	296-2919-5-ND	8-Bit, 75kSPS, 12-Ch. 5V Serial ADC	20-SOIC	5.85	4.71	4.29
TLC540IFN	296-2920-5-ND	8-Bit, 75kSPS, 12-Ch. 5V Serial ADC	20-PLCC	5.85	4.71	4.29
TLC540IN	296-2921-5-ND	8-Bit, 75kSPS, 12-Ch. 5V Serial ADC	20-Dip	4.93	3.96	3.61
TLC541IDW	296-2922-5-ND	8-Bit, 40kSPS, 11-Ch. 5V Serial ADC	20-SOIC	5.04	4.05	3.69
TLC541IFN	296-2923-5-ND	8-Bit, 40kSPS, 11-Ch. 5V Serial ADC	20-PLCC	5.04	4.05	3.69
TLC541IFNR	296-1331-1-ND	8-Bit, 40kSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.50	3.68	3.30
TLC541IFNR	296-1331-2-ND	8-Bit, 40kSPS, 11-Ch. 5V Serial ADC	20-PLCC	2100.00/1,000		
TLC541IN	296-1850-5-ND	8-Bit, 40kSPS, 11-Ch. 5V Serial ADC	20-Dip	4.20	3.38	3.08
TLC542CDW	296-1332-5-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.93	3.96	3.61
TLC542CDWR	296-1332-1-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.29	3.51	3.15
TLC542CDWR	296-1332-2-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	3803.80/2,000		
TLC542CN	296-2924-5-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-Dip	4.00	3.22	2.94
TLC542IDW	296-1333-5-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	5.18	4.17	3.80
TLC542IDWR	296-1333-1-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.56	3.73	3.35
TLC542IDWR	296-1333-2-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-SOIC	4043.20/2,000		
TLC542IFN	296-1334-5-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-PLCC	5.18	4.17	3.80
TLC542IFNR	296-1334-1-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.56	3.73	3.35
TLC542IFNR	296-1334-2-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-PLCC	2128.00/1,000		
TLC542IN	296-2927-5-ND	8-Bit, 25kSPS, 11-Ch. 5V Serial ADC	20-Dip	4.54	3.65	3.33
TLC545CFN	296-2928-5-ND	8-Bit, 76kSPS, 19-Ch. 5V Serial ADC	28-PLCC	9.78	8.02	7.24
TLC545CN	296-2929-5-ND	8-Bit, 76kSPS, 19-Ch. 5V Serial ADC	28-Dip	10.30	8.45	7.63
TLC545IFN	296-2930-5-ND	8-Bit, 76kSPS, 19-Ch. 5V Serial ADC	28-PLCC	10.53	8.64	7.79
TLC545IN	296-2931-5-ND	8-Bit, 76kSPS, 19-Ch. 5V Serial ADC	28-Dip	11.05	9.07	8.18
TLC548CD	296-2934-5-ND	8-Bit, 45.5kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	4.20	3.38	3.08
TLC548CP	296-2935-5-ND	8-Bit, 45.5kSPS, 1-Ch. 3-6V Serial ADC	8-Dip	3.64	2.93	2.67
TLC548ID	296-2936-5-ND	8-Bit, 45.5kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	4.34	3.49	3.18
TLC548IP	296-2937-5-ND	8-Bit, 45.5kSPS, 1-Ch. 3-6V Serial ADC	8-Dip	3.78	3.04	2.77
TLC549CD	296-1335-5-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	3.05	2.46	2.24
TLC549CDR	296-1335-1-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	3.15	2.43	2.21
TLC549CDR	296-1335-2-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	3037.50/2,500		
TLC549CP	296-1853-5-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-Dip	2.95	2.38	2.14
TLC549ID	296-1854-5-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	3.33	2.68	2.44
TLC549IP	296-1855-5-ND	8-Bit, 40kSPS, 1-Ch. 3-6V Serial ADC	8-Dip	2.94	2.37	2.16
TLC1514ID	296-2180-5-ND	10-Bit, 400kSPS, 4-Ch. 5V Serial ADC	16-SOIC	9.13	7.49	6.76
TLC1514IPW	296-2870-5-ND	10-Bit, 400kSPS, 4-Ch. 5V Serial ADC	16-TSSOP	9.13	7.49	6.76
TLC1518IDW	296-2181-5-ND	10-Bit, 400kSPS, 8-Ch. 5V Serial ADC	20-SOIC	10.75	8.82	7.96
TLC1518IPW	296-2871-5-ND	10-Bit, 400kSPS, 8-Ch. 5V Serial ADC	20-TSSOP	10.75	8.82	7.96
TLC1541CDW	296-2872-5-ND	10-Bit, 32kSPS, 11-Ch. 5V Serial ADC	20-SOIC	9.75	8.00	7.22
TLC1541CFN	296-2873-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	8.00	6.56	5.92
TLC1541CN	296-2874-5-ND	10-Bit, 32kSPS, 11-Ch. 5V Serial ADC	20-Dip	8.50	6.97	6.29
TLC1541IDW	296-2875-5-ND	10-Bit, 32kSPS, 11-Ch. 5V Serial ADC	20-SOIC	10.38	8.51	7.68
TLC1541IN	296-2182-5-ND	10-Bit, 32kSPS, 11-Ch. 5V Serial ADC	20-Dip	9.13	7.49	6.76
TLC1541IFN	296-2876-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	8.63	7.08	6.39
TLC1542CDW	296-2877-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	9.50	7.79	7.03
TLC1542CFN	296-2878-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	7.88	6.46	5.83
TLC1542CN	296-2879-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-Dip	7.88	6.46	5.83
TLC1542IDW	296-2880-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	10.13	8.31	7.50
TLC1542IN	296-2881-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-Dip	8.50	6.97	6.29
TLC1542QFN	296-2882-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	9.75	8.00	7.22
TLC1543CDB	296-2883-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SSOP	6.13	4.93	4.49
TLC1543CDW	296-1804-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	6.13	4.93	4.49
TLC1543CFN	296-1805-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	6.13	4.93	4.49
TLC1543CN	296-2885-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-Dip	5.32	4.28	3.90
TLC1543IDW	296-2886-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	6.38	5.13	4.68
TLC1543IFN	296-2887-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.75	3.90	3.52
TLC1543IN	296-2888-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-Dip	5.60	4.50	4.10
TLC1543QDB	296-2889-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SSOP	6.13	4.93	4.49
TLC1543QDBG4	296-24464-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC* ***NEW!***	20-SSOP	6.24	5.02	4.58
TLC1543QDW	296-2890-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	6.13	4.93	4.49
TLC1543QDWREP	296-18138-1-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-SOIC	7.21	5.99	5.44

* RoHS Compliant

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA CONVERSION
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC1543QFN	296-2891-5-ND	10-Bit, 38kSPS, 11-Ch. 5V Serial ADC	20-PLCC	6.13	4.93	4.49
TLC1549CD	296-2892-5-ND	10-Bit, 38kSPS, 1-Ch. 5V Serial ADC	8-SOIC	6.16	4.95	4.51
TLC1549CP	296-1806-5-ND	10-Bit, 38kSPS, 1-Ch. 5V Serial ADC	8-Dip	5.32	4.28	3.90
TLC1549ID	296-2893-5-ND	10-Bit, 38kSPS, 1-Ch. 5V Serial ADC	8-SOIC	6.58	5.29	4.82
TLC1549IP	296-2894-5-ND	10-Bit, 38kSPS, 1-Ch. 5V Serial ADC	8-Dip	5.74	4.62	4.21
TLC1550IDW	296-2895-5-ND	10-Bit, 164kSPS, 10-Ch. 5V Parallel Out ADC	24-SOIC	12.98	10.92	10.03
TLC1551IDW	296-2896-5-ND	10-Bit, 164kSPS, 10-Ch. 5V Parallel Out ADC	24-SOIC	11.11	9.35	8.59
TLC2543CDB	296-2897-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SSOP	11.29	9.50	8.73
TLC2543CDW	296-1307-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SOIC	11.29	9.50	8.73
TLC2543CDWR	296-1307-1-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SOIC	11.21	9.31	8.46
TLC2543CDWR	296-1307-2-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SOIC	10998.00/2,000		
TLC2543CFN	296-2898-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-PLCC	10.58	8.68	7.83
TLC2543CN	296-1816-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-Dip	10.58	8.68	7.83
TLC2543IDB	296-2899-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SSOP	11.92	10.03	9.22
TLC2543IDW	296-2900-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SOIC	11.92	10.03	9.22
TLC2543IDWR	296-26740-1-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC* ***NEW!***	20-SOIC	11.95	9.93	9.02
TLC2543IDWR	296-26740-2-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC* ***NEW!***	20-SOIC	11726.00/2,000		
TLC2543IFN	296-2901-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-PLCC	11.92	10.03	9.22
TLC2543IN	296-1817-5-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-Dip	11.28	9.25	8.35
TLC2543MDBREP	296-22412-1-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SSOP	20.75	17.59	16.24
TLC2543QDWREP	296-22413-1-ND	12-Bit, 66kSPS, 11-Ch. 5V Serial ADC	20-SOIC	14.86	12.60	11.63
TLC2551EVM	296-20571-ND	Evaluation Module for TLC2551	—	50.00	—	—
TLC2551ID	296-2909-5-ND	12-Bit, 400kSPS, 1-Ch. 5V Serial ADC	8-SOIC	13.86	11.66	10.71
TLC2551IDGK	296-2910-5-ND	12-Bit, 400kSPS, 1-Ch. 5V Serial ADC	8-MSOP	11.55	9.72	8.93
TLC2552EVM	296-20572-ND	Evaluation Module for TLC2552	—	50.00	—	—
TLC2552ID	296-2911-5-ND	12-Bit, 400kSPS, 2-Ch. 5V Serial ADC	8-SOIC	11.55	9.72	8.93
TLC2552IDGK	296-2912-5-ND	12-Bit, 400kSPS, 1-Ch. 5V Serial ADC	8-MSOP	11.55	9.72	8.93
TLC2554ID	296-2913-5-ND	12-Bit, 400kSPS, 4-Ch. 5V Serial ADC	16-SOIC	16.72	14.06	12.92
TLC2554IPW	296-2914-5-ND	12-Bit, 400kSPS, 4-Ch. 5V Serial ADC	16-TSSOP	15.73	13.23	12.16
TLC2555EVM	296-20573-ND	Evaluation Module for TLC2555	—	50.00	—	—
TLC2555ID	296-2915-5-ND	12-Bit, 400kSPS, 1-Ch. 5V Serial ADC	8-SOIC	11.55	9.72	8.93
TLC2555IDGK	296-2916-5-ND	12-Bit, 400kSPS, 1-Ch. 5V Serial ADC	8-MSOP	11.55	9.72	8.93
TLC2558IDW	296-2917-5-ND	12-Bit, 400kSPS, 8-Ch. 5V Serial ADC	20-SOIC	12.54	10.55	9.69
TLC2558IPW	296-2918-5-ND	12-Bit, 400kSPS, 8-Ch. 5V Serial ADC	20-TSSOP	15.07	12.68	11.65
TLC2574IDW	296-10255-5-ND	12-Bit, 200kSPS, 4-Ch. Serial Out ADC	20-SOIC	14.63	12.31	11.31
TLC2574IPW	296-10256-5-ND	12-Bit, 200kSPS, 4-Ch. Serial Out ADC	20-TSSOP	14.63	12.31	11.31
TLC2578IDW	296-10257-5-ND	12-Bit, 200kSPS, 8-Ch. Serial Out ADC	24-SOIC	15.95	13.42	12.33
TLC2578IPW	296-10258-5-ND	12-Bit, 200kSPS, 8-Ch. Serial Out ADC	24-TSSOP	19.14	16.10	14.79
TLC3541ID	296-12498-5-ND	5V, Low Power, 14-Bit, 200kSPS Serial ADC with Auto Power Down	8-SOIC	13.75	11.57	10.63
TLC3541IDGK	296-13505-5-ND	5V, Low Power, 14-Bit, 200kSPS Serial ADC with Auto Power Down	8-MSOP	16.50	13.88	12.75
TLC3544IDW	296-10288-5-ND	14-Bit, 200kSPS, 4-Ch. Unipolar ADC	20-SOIC	17.82	14.99	13.77
TLC3544IPW	296-10289-5-ND	14-Bit, 200kSPS, 4-Ch. Unipolar ADC	20-TSSOP	17.82	14.99	13.77
TLC3545EVM	296-20575-ND	Evaluation Module for TLC3545	—	50.00	—	—
TLC3545ID	296-12499-5-ND	14-Bit, 5V, 200kSPS, LP Serial ADC	8-SOIC	13.75	11.57	10.63
TLC3545IDGK	296-13506-5-ND	5V, Low Power, 14-Bit, 200kSPS Serial ADC with Auto Power Down	8-MSOP	13.75	11.57	10.63
TLC3548IDW	296-10290-5-ND	14-Bit, 200kSPS, 8-Ch. Unipolar ADC	24-SOIC	18.15	15.27	14.03
TLC3548IPW	296-10291-5-ND	14-Bit, 200kSPS, 8-Ch. Unipolar ADC	20-TSSOP	18.15	15.27	14.03
TLC3574EVM	296-18901-ND	Evaluation Module for TLC3574	—	50.00	—	—
TLC3574IDW	296-10296-5-ND	14-Bit, 200kSPS, 4-Channel LP ADC	20-SOP	20.60	17.51	16.23
TLC3574IPW	296-10297-5-ND	14-Bit, 200kSPS, 4-Ch. LP ADC	20-TSSOP	18.92	15.91	14.62
TLC3578IDW	296-10298-5-ND	14-Bit, 200kSPS, 8-Channel LP ADC	24-SOIC	25.70	21.85	20.24
TLC3578IPW	296-10299-5-ND	14-Bit, 200kSPS, 8-Channel LP ADC	24-TSSOP	25.70	21.85	20.24
TLC4541EVM	296-13563-ND	Evaluation Module for TLC4541	—	50.00	—	—
TLC4541ID	296-12500-5-ND	16-Bit, 5V, 200kSPS, LP Serial ADC	8-SOIC	18.92	15.91	14.62
TLC4541IDGK	296-13825-5-ND	16-Bit, 5V, 200kSPS, LP Serial ADC	8-MSOP	20.60	17.51	16.23
TLC4545ID	296-12501-5-ND	16-Bit, 5V, 200kSPS, LP Serial ADC	8-SOIC	18.92	15.91	14.62
TLC4545IDGK	296-12746-5-ND	16-Bit, 5V, 200kSPS, LP Serial ADC	8-MSOP	18.92	15.91	14.62
TLC5510AINS	296-2938-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	6.78	5.56	5.02
TLC5510EVM	296-10332-ND	Evaluation Module for TLC5510	—	50.00	—	—
TLC5510INS	296-2939-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	6.78	5.56	5.02
TLC5510IPW	296-2183-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-TSSOP	6.78	5.56	5.02
TLC5540CNS	296-23063-5-ND	8-Bit, 40MSPS, High Speed ADC	24-SOP	7.00	5.74	5.18
TLC5540CNSR	296-10336-1-ND	8-Bit, 40MSPS, High Speed ADC	24-SOP	6.84	5.59	5.02
TLC5540EVM	296-10337-ND	Evaluation Module for TLC5540	—	50.00	—	—
TLC5540INS	296-21968-5-ND	8-Bit, 40MSPS, High Speed ADC	24-SOIC	7.38	6.05	5.46
TLC5540INSR	296-10338-1-ND	8-Bit, 40MSPS, High Speed ADC	24-SOP	7.41	6.06	5.44
TLC5540INSR	296-10338-2-ND	8-Bit, 40MSPS, High Speed ADC	24-SOP	6570.00/2,000		
TLC5540IPW	296-2184-5-ND	8-Bit, 40MSPS, High Speed ADC	24-TSSOP	7.38	6.05	5.46
TLC7135CDW	296-2185-5-ND	4.5-Digit, .003kSPS, 1-Ch. Diff. In ADC	28-SOIC	6.24	5.02	4.58
TLC7135CN	296-10350-5-ND	4.5-Digit, .003kSPS, 1-Ch. Diff. In ADC	28-Dip	5.07	4.08	3.72
TLV0831CD	296-2944-5-ND	8-Bit, 49kSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	5.88	4.73	4.31
TLV0831CP	296-2187-5-ND	8-Bit, 49kSPS, 1-Ch. 3.3V Serial ADC	8-Dip	4.90	3.94	3.59
TLV0831ID	296-2945-5-ND	8-Bit, 49kSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	6.30	5.07	4.62
TLV0831IP	296-2946-5-ND	8-Bit, 49kSPS, 1-Ch. 3.3V Serial ADC	8-Dip	5.32	4.28	3.90
TLV0832CD	296-2947-5-ND	8-Bit, 44.7kSPS, 2-Ch. 3.3V Serial ADC	8-SOIC	4.76	3.83	3.49
TLV0832CP	296-2948-5-ND	8-Bit, 44.7kSPS, 2-Ch. 3.3V Serial ADC	8-Dip	3.92	3.15	2.87
TLV0832ID	296-2188-5-ND	8-Bit, 44.7kSPS, 2-Ch. 3.3V Serial ADC	8-SOIC	5.04	4.05	3.69
TLV0832IP	296-2949-5-ND	8-Bit, 44.7kSPS, 2-Ch. 3.3V Serial ADC	8-Dip	4.20	3.38	3.08
TLV0834CD	296-2189-5-ND	8-Bit, 41kSPS, 4-Ch. 3.3V Serial ADC	14-SOIC	4.90	3.94	3.59
TLV0834ID	296-2950-5-ND	8-Bit, 41kSPS, 4-Ch. 3.3V Serial ADC	14-SOIC	5.32	4.28	3.90
TLV0834IN	296-2951-5-ND	8-Bit, 41kSPS, 4-Ch. 3.3V Serial ADC	14-Dip	4.34	3.49	3.18
TLV0834IPW	296-13859-5-ND	8-Bit, 41kSPS, 4-Ch. 3.3V Serial ADC	16-TSSOP	5.32	4.28	3.90
TLV0838CDW	296-2952-5-ND	8-Bit, 37.9kSPS, 8-Ch. 3.3V Serial ADC	20-SOIC	4.90	3.94	3.59
TLV0838IDW	296-2190-5-ND	8-Bit, 37.9kSPS, 8-Ch. 3.3V Serial ADC	20-SOIC	5.32	4.28	3.90
TLV0838IN	296-2953-5-ND	8-Bit, 37.9kSPS, 8-Ch. 3.3V Serial ADC	20-Dip	4.34	3.49	3.18
TLV0838IPW	296-2954-5-ND	8-Bit, 37.9kSPS, 8-Ch. 3.3V Serial ADC	20-TSSOP	5.32	4.28	3.90
TLV571IDW	296-2207-5-ND	8-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	7.25	5.95	5.37
TLV571IPW	296-2988-5-ND	8-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Parallel ADC	24-TSSOP	7.25	5.95	5.37
TLV1504ID	296-2191-5-ND	10-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	8.25	6.77	6.11
TLV1504IPW	296-2955-5-ND	10-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-TSSOP	10.00	8.20	7.40
TLV1508IDW	296-2192-5-ND	10-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	20-SOIC	11.88	9.74	8.79
TLV1508IPW	296-2956-5-ND	10-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	20-TSSOP	11.88	9.74	8.79
TLV1543CDB	296-2958-5-ND	10-Bit, 200kSPS, 11-Channel 3.3V Serial ADC	20-SSOP	6.92	5.56	5.07
TLV1543CDW	296-1878-5-ND	10-Bit, 200kSPS, 11-Channel 3.3V Serial ADC	20-SOIC	6.92	5.56	5.07
TLV1543CN	296-2957-5-ND	10-Bit, 200kSPS, 11-Channel 3.3V Serial ADC	20-Dip	5.99	4.82	4.39
TLV1543IDB	296-2959-5-ND	10-Bit, 200kSPS, 11-Channel 3.3V Serial ADC	20-SSOP	6.65	5.46	4.93
TLV1544CD	296-2960-5-ND	10-Bit, 85kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	6.72	5.40	4.92
TLV1544CPW	296-2193-5-ND	10-Bit, 85kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-TSSOP	6.72	5.40	4.92
TLV1544ID	296-2961-5-ND	10-Bit, 85kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	6.38	5.23	4.72
TLV1548IDB	296-2962-5-ND	10-Bit, 85kSPS, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	7.38	6.05	5.46
TLV1548QDBRQ1	296-16956-1-ND	10-Bit, 85kSPS, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	7.69	6.38	5.80
TLV1549CD	296-2963-5-ND	10-Bit, 38kSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	7.00	5.74	5.18
TLV1549CP	296-2964-5-ND	10-Bit, 38kSPS, 1-Ch. 3.3V Serial ADC	8-Dip	6.72	5.40	4.92
TLV1549ID	296-2194-5-ND	10-Bit, 38kSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	7.38	6.05	5.46
TLV1549IP	296-2965-5-ND	10-Bit, 38kSPS, 1-Ch. 3.3V Serial ADC	8-Dip	6.50	5.33	4.81
TLV1562CDW	296-2195-5-ND	10-Bit, 2MSPS 4-Channel 2.7V-5.5V Parallel ADC	28-SOIC	8.30	6.64	5.61
TLV1562CPW	296-2966-5-ND	10-Bit, 2MSPS 4-Channel 2.7V-5.5V Parallel ADC	28-TSSOP	10.38	8.51	7.68
TLV1562IDW	296-1879-5-ND	10-Bit, 2MSPS 4-Channel 2.7V-5.5V Parallel ADC	28-SOIC	11.13	9.13	8.24
TLV1562IPW	296-1880-5-ND	10-Bit, 2MSPS 4-Channel 2.7V-5.5V Parallel ADC	28-TSSOP	11.13	9.13	8.24
TLV1570CDW	296-2196-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Serial ADC	20-SOIC	11.50	9.43	8.51
TLV1570CPW	296-2967-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Serial ADC	20-TSSOP	11.50	9.43	8.51
TLV1570IDW	296-1881-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Serial ADC	20-SOIC	10.13	8.31	7.50
TLV1570IPW	296-1882-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Serial ADC	20-TSSOP	12.25	10.05	9.07
TLV1571CDW	296-2197-5-ND	10-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	11.50	9.43	8.51
TLV1571IDW	296-2968-5-ND	10-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	12.38	10.15	9.16
TLV1571IPW	296-2969-5-ND	10-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Parallel ADC	24-TSSOP	12.38	10.15	9.16
TLV1572CD	296-2970-5-ND	10-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Serial ADC	8-SOIC	10.13	8.31	7.50
TLV1572ID	296-1883-5-ND	10-Bit, 1.25MSPS 1-Channel 2.7V-5.5V Serial ADC	8-SOIC	10.75	8.82	7.96
TLV1578CDA	296-2198-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Parallel ADC	32-TSSOP	11.63	9.54	8.61
TLV1578IDA	296-2971-5-ND	10-Bit, 1.25MSPS 8-Channel 2.7V-5.5V Parallel ADC	32-TSSOP	10.25	8.41	7.59
TLV2541CDGK	296-2199-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	11.63	9.54	8.61
TLV2541EVM	296-20577-ND	Evaluation Module for TLV2541	—	50.00	—	—
TLV2541ID	296-2972-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	12.38	10.15	9.16
TLV2541IDGK	296-2973-5-ND	12-Bit, 140/200kSPS, 1-Channel 2.7V-5.5V Serial ADC	8MSOP	12.38	10.15	9.16
TLV2542CDGK	296-2200-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	12.76	10.73	9.86
TLV2542EVM	296-20578-ND	Evaluation Module for TLV2542	—	50.00	—	—
TLV2542ID	296-2974-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	13.64	11.47	10.54
TLV2542IDGK	296-2975-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	13.64	11.47	10.54
TLV2543CDBR	296-10643-1-ND	12-Bit, 66kSPS 11-Channel 3.3V Serial Out ADC	20-SSOP	12.77	10.83	9.99
TLV2543CDW	296-2977-5-ND	12-Bit, 66kSPS, 11-Ch. 3.3V Serial ADC	20-SOIC	14.85	12.49	11.48
TLV2543CN	296-2978-5-ND	12-Bit, 66kSPS, 11-Ch. 3.3V Serial ADC	20-Dip	12.21	10.27	9.44
TLV2543IDB	296-2201-5-ND	12-Bit, 66kSPS, 11-Ch. 3.3V Serial ADC	20-SSOP	15.73	13.23	12.16
TLV2543IDW	296-2979-5-ND	12-Bit, 66kSPS, 11-Ch. 3.3V Serial ADC	20-SOIC	15.73	13.23	12.16
TLV2543IN	296-2980-5-ND	12-Bit, 66kSPS, 11-Ch. 3.3V Serial ADC	20-Dip	13.09	11.01	10.12
TLV2544CD	296-2202-5-ND	12-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	11.22	9.44	8.67
TLV2544ID	296-2981-5-ND	12-Bit, 200kSPS, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	11.88	9.99	9.18
TLV2544QD	296-13365-5-ND	12-Bit, 200kSPS, 4-Ch. LP, Serial ADC w/Autopower-Down	16-SOIC	11.44	9.62	8.84
TLV2545CDGK	296-2203-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	9.63	7.90	7.13
TLV2545EVM	296-20579-ND	Evaluation Module for TLV2545	—	50.00	—	—
TLV2545ID	296-2984-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	10.25	8.41	7.59

* RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2545IDGK	296-2985-5-ND	12-Bit, 140/200kSPS, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	10.25	8.41	7.59
TLV2548CDW	296-2204-5-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	12.98	10.92	10.03
TLV2548IDW	296-2986-5-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	13.75	11.57	10.63
TLV2548IPW	296-2987-5-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-TSSOP	13.75	11.57	10.63
TLV2548MPWREP	296-25315-1-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down* ***NEW!***	20-TSSOP	22.31	18.92	17.46
TLV2548MPWREP	296-25315-2-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down* ***NEW!***	20-TSSOP	24735.00/2,000		
TLV2548QDW	296-13366-5-ND	12-Bit, 200kSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	13.20	11.10	10.20
TLV2553IDW	296-12227-5-ND	12-Bit, 11-Channel, LP Serial ADC	20-SOIC	10.25	8.41	7.59
TLV2553IDWRQ1	296-24106-1-ND	12-Bit, 11-Channel, LP Serial ADC	20-SOIC	10.60	8.80	8.00
TLV2553IPW	296-15633-5-ND	12-Bit, 11-Channel, LP Serial ADC	20-TSSOP	10.25	8.41	7.59
TLV2556EVM	296-20581-ND	Evaluation Module for TLV2556	—	49.38	—	—
TLV2556IDW	296-12502-5-ND	12-Bit, 11-Channel, LP Serial ADC with Internal Reference	20-SOIC	10.75	8.82	7.96
TLV2556IPW	296-13000-5-ND	12-Bit, 11-Channel, LP Serial ADC with Internal Reference	20-TSSOP	10.75	8.82	7.96
TLV2556MPWREP	296-23986-1-ND	12-Bit, 11-Channel , LP Serial ADC with Internal Reference	20-TSSOP	16.33	13.85	12.78
TLV2556MPWREP	296-23986-2-ND	12-Bit, 11-Channel , LP Serial ADC with Internal Reference	20-TSSOP	18105.00/2,000		
TLV5535EVM	296-10731-ND	Evaluation Module for TLV5535	—	101.00	—	—
TLV5535IPW	296-2206-5-ND	8-Bit, 35MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	9.00	7.38	6.66
TLV5580CDW	296-1912-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-SOIC	33.32	28.33	26.24
TLV5580CPW	296-1913-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	33.32	28.33	26.24
TLV5580IDW	296-1914-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-SOIC	35.54	30.21	27.99
TLV5580IPW	296-1915-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	35.54	30.21	27.99
TLV5734PAG	296-12955-5-ND	8-Bit, 30MSPS 3-Ch. 3.3V, Very Low Power ADC	64-TQFP	11.88	9.74	8.79
TSC2003EVM	296-21196-ND	Evaluation Module for TSC2003	—	50.00	—	—
TSC2003EVM-PDK	296-21197-ND	Evaluation Kit for TSC2003	—	152.00	—	—
TSC2003IPW	296-14330-5-ND	I^{2}C Touch Screen Controller	16-TSSOP	6.75	5.54	5.00
TSC2003IZQCR	296-21992-1-ND	I^{2}C Touch Screen Controller	48-BGA	6.75	5.52	4.95
TSC2004IYZKR	296-23108-1-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	24-DSBGA	6.60	5.39	4.84
TSC2005IYZLT	296-21431-1-ND	1.6V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	28-DSBGA	6.76	5.61	5.10
TSC2005IYZLT	296-21431-2-ND	1.6V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	28-DSBGA	1083.75/250		
TSC2007IPW	296-21716-5-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	16-TSSOP	4.93	3.96	3.61
TSC2007IYZGT	296-21717-1-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	12-DSBGA	5.67	4.64	4.16
TSC2007IYZGT	296-21717-2-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	12-DSBGA	874.25/250		
TSC2008IRGVT	296-24240-1-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Ctrlr.* ***NEW!***	16-QFN	6.15	5.03	4.51
TSC2008IRGVT	296-24240-2-ND	1.2V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Ctrlr.* ***NEW!***	16-QFN	948.25/250		
TSC2017IYZGR	296-25631-1-ND	1.6V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Ctrlr.* ***NEW!***	12-DSBGA	4.92	4.02	3.61
TSC2017IYZGR	296-25631-2-ND	1.6V~3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Ctrlr.* ***NEW!***	12-DSBGA	6543.00/3,000		
TSC2046EIPW	296-21997-5-ND	LV I/O Touch Screen Controller	16-TSSOP	6.24	5.02	4.58
TSC2046EIRGVT	296-21998-1-ND	LV I/O Touch Screen Controller	16-VQFN	6.69	5.47	4.91
TSC2046EIRGVT	296-21998-2-ND	LV I/O Touch Screen Controller	16-VQFN	1031.50/250		
TSC2046EVM	296-17516-ND	Evaluation Module for TSC2046	—	50.00	—	—
TSC2046EVM-PDK	296-17518-ND	Evaluation Module for TSC2046-PDK	—	152.00	—	—
TSC2046IPWR	296-15049-1-ND	LV I/O Touch Screen Controller	16-TSSOP	3.08	2.38	2.16
TSC2046IPWR	296-15049-2-ND	LV I/O Touch Screen Controller	16-TSSOP	2970.00/2,500		
TSC2046IRGVR	296-15050-1-ND	LV I/O Touch Screen Controller	16-VQFN	3.22	2.49	2.26
TSC2100EVM	296-19021-ND	Evaluation Module for TSC2100	—	101.00	—	—
TSC2100IDA	296-15903-5-ND	Prog. Touch Screen Controller	32-TSSOP	9.25	7.59	6.85
TSC2100IRHB	296-17926-ND	Prog. Touch Screen Controller	32-QFN	9.25	7.59	6.85
TSC2101EVM	296-16858-ND	Touch Screen Cont. Eval. Module	—	101.00	—	—
TSC2101IRGZ	296-17512-ND	Audio Codec w/Integrated Headphone Speaker, Amp/Touch Screen Ctrlr.	48-VQFN	11.25	9.23	8.33
TSC2102IDA	296-15679-5-ND	Programmable Touch Screen Controller with Audio DAC	32-TSSOP	7.50	6.15	5.55
TSC2200EVM	296-13596-ND	Evaluation Module for TSC2200	—	101.00	—	—
TSC2200IPW	TSC2200IPW-ND	Prog. Touch Screen Cont. w/12-Bit, 125kHz ADC and Keypad Interface	28-TSSOP	7.25	5.95	5.37
TSC2200IRHB	296-16693-5-ND	Prog. Touch Screen Cont. w/12-Bit, 125kHz ADC and Keypad Interface	32-VQFN	7.25	5.95	5.37
TSC2300IPAG	296-14060-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	11.77	9.90	9.10
TSC2301EVM	296-19022-ND	Evaluation Module for TSC2301	—	152.00	—	—
TSC2301IPAG	296-15680-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	12.32	10.36	9.52
TSC2302IRGZ	296-19023-ND	Prog. Touch Screen Controller	48-VQFN	12.10	10.18	9.35
TSC2301IZQZ	296-21290-ND	Prog. Touch Screen Controller	120-BGA	12.32	10.36	9.52
VSP1021PFB	296-12700-ND	10-Bit, Low Power Analog-Signal Processor/Digitizer	48-TQFP	9.88	8.10	7.31
HPA-MCUINTERFACE	296-20848-ND	Interface Board for HPA-MCU	—	50.00	—	—

Audio Analog-to-Digital Converters

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE8220TPZPQ1	296-25259-ND	Dual IF Analog Front End for Digital Radio* ***NEW!***	100-HTQFP	54.23	47.85	45.46
AFE8221IRFPQ1	296-24146-ND	IF Analog Front End for Digital Radio*	144-HTQFP	67.66	59.70	56.72
AFEDRI8201PFBR	296-21570-2-ND	IF ADC Front End for AM/FM and HD Radios	48-TQFP	128520.00/2,000		
DF1706E	DF1706E-ND	Digital Filter for PCM1704	28-SSOP	32.64	27.75	25.71
DF1760P	DF1760P-ND	Digital Filter for PCM1760	28-Dip	38.76	32.95	30.53
DF1760U	DF1760U-ND	Digital Filter for PCM1760	20-SOP	38.76	32.95	30.53
DRI8201PFBR	296-21570-1-ND	IF ADC Front End for AM/FM and HD Radios	48-TQFP	88.36	77.65	73.64
PCM1800E	PCM1800E-ND	Single-Ended 20-Bit, Stereo ADC	24-SSOP	8.25	6.77	6.11
PCM1801U	PCM1801U-ND	16-Bit, Stereo Audio ADC	14-SOIC	7.75	6.36	5.74
PCM1802DB	PCM1802DB-ND	24-Bit, 96kHz Delta-Sigma Stereo ADC	20-SSOP	10.00	8.20	7.40
PCM1802DBR	296-26304-1-ND	24-Bit, 96kHz Stereo ADC* ***NEW!***	20-SSOP	8.88	7.37	6.70
PCM1802DBR	296-26304-2-ND	24-Bit, 96kHz Stereo ADC* ***NEW!***	20-SSOP	8710.00/2,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM1803ADB	296-19473-5-ND	Single Ended, Analog Input 24-Bit, 96kHz Stereo ADC	20-SSOP	3.58	2.88	2.63
PCM1803DB	296-17658-5-ND	Single Ended, Analog Input 24-Bit, 96kHz Stereo ADC	20-SSOP	3.81	3.06	2.79
PCM1804DB	PCM1804DB-ND	24-Bit, 192kHz Delta-Sigma Stereo ADC	28-SSOP	11.88	9.74	8.79
PCM1807PW	296-18703-5-ND	Single-Ended Analog-Input 24-Bit, 96kHz, Stereo ADC	14-TSSOP	3.36	2.70	2.46
PCM1808PW	296-19773-ND	24-Bit, 96kHz, Stereo ADC	14-TSSOP	3.36	2.70	2.46
PCM1808PWR	296-26307-1-ND	Single-Ended Analog-Input 24-Bit, 96kHz, Stereo ADC* ***NEW!***	14-TSSOP	3.00	2.45	2.20
PCM1808PWR	296-26307-2-ND	Single-Ended Analog-Input 24-Bit, 96kHz, Stereo ADC* ***NEW!***	14-TSSOP	2660.00/2,000		
PCM1850PJT	296-16929-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	15.84	13.32	12.24
PCM1851APJT	296-21586-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	12.76	10.73	9.86
PCM1851PJT	296-16930-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	15.84	13.32	12.24
PCM1870RHFR	296-21941-1-ND	16-Bit LP Stereo Audio ADC	24-QFN	5.10	4.17	3.74
PCM1870RHFR	296-21941-2-ND	16-Bit LP Stereo Audio ADC	24-QFN	6783.00/3,000		
PCM4201EVM	296-20983-ND	Evaluation Module for PCM4201	—	101.00	—	—
PCM4201PW	296-18031-5-ND	24-Bit, LP, Single Ch. Audio ADC	16-TSSOP	7.50	6.15	5.55
PCM4202DB	296-26308-5-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC* ***NEW!***	28-SSOP	13.09	11.01	10.12
PCM4202EVM	296-17597-ND	Evaluation Module for PCM4202	—	203.00	—	—
PCM4202IDBREP	296-22195-1-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC	28-SSOP	17.25	14.63	13.50
PCM4204EVM	296-18513-ND	Evaluation Module for PCM4204	—	203.00	—	—
PCM4222PFBR	296-21703-1-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	29.90	26.91	24.67
PCM4222PFBR	296-21703-2-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	19435.00/1,000		

DSP Compatible Analog-to-Digital Converter

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE5804ZCF	296-23768-ND	8-Ch. Analog Front End for Ultrasound	135-BGA	84.32	75.10	71.15
AFE5805ZCF	296-23582-ND	8-Ch. Analog Front End for Ultrasound	135-BGA	81.12	72.25	68.45

Digital-to-Analog Converters

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC712P	DAC712P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip.3	29.08	24.72	22.91
DAC712PB	DAC712PB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	38.00	32.30	29.93
DAC712PK	DAC712PK-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	35.10	29.84	27.65
DAC712U	DAC712U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	29.00	24.65	22.84
DAC712UB	296-14008-5-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	33.70	28.65	26.54
DAC712UK	296-26042-5-ND	16-Bit, DAC (16-Bit-Bus Interface)* ***NEW!***	28-SOIC	31.10	26.44	24.50
DAC714P	DAC714P-ND	16-Bit, DAC (Serial Data Interface)	16-Dip	33.40	28.39	26.31
DAC714U	DAC714U-ND	16-Bit, DAC (Serial Data Interface)	16-SOIC	33.00	28.05	25.99
DAC715P	DAC715P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	42.31	36.60	34.31
DAC715U	DAC715U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	39.70	33.75	31.27
DAC715UB	DAC715UB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	42.55	36.80	34.50
DAC715UL	296-24945-5-ND	16-Bit, DAC (16-Bit Bus Interface)* ***NEW!***	28-SOIC	50.23	43.44	40.73
DAC716P	DAC716P-ND	16-Bit, DAC	16-Dip	42.31	36.60	34.31
DAC716PB	DAC716PB-ND	16-Bit, DAC	16-Dip	48.19	41.68	39.08
DAC716PK	DAC716PK-ND	16-Bit, DAC	16-Dip	44.90	38.84	36.41
DAC716U	DAC716U-ND	16-Bit, DAC	16-SOIC	39.70	33.75	31.27
DAC716UB	DAC716UB-ND	16-Bit, DAC	16-SOIC	42.55	36.80	34.50
DAC716UK	DAC716UK-ND	16-Bit, DAC	16-SOIC	39.22	33.92	31.80
DAC725JP	DAC725JP-ND	Dual 16-Bit, DAC	28-Dip	308.13	282.63	276.25
DAC811JU	DAC811JU-ND	12-Bit, MPU-Compatible DAC	28-SOIC	26.00	22.10	20.48
DAC813AU	DAC813AU-ND	12-Bit, MPU-Compatible DAC	28-SOIC	29.20	24.82	23.00
DAC813JP	DAC813JP-ND	12-Bit, MPU-Compatible DAC	28-Dip	34.94	29.70	27.52
DAC813JU	DAC813JU-ND	12-Bit, MPU-Compatible DAC	28-SOIC	29.20	24.82	23.00
DAC813KU	296-24946-5-ND	12-Bit, MPU-Compatible DAC* ***NEW!***	28-SOIC	38.60	32.81	30.40
DAC900E	DAC900E-ND	10-Bit, 165MSPS DAC	28-TSSOP	9.78	8.02	7.24
DEM-DAC900E	296-19945-ND	Demo Board for DAC900E	—	152.00	—	—
DAC900U	DAC900U-ND	10-Bit, 165MSPS Current Out DAC	28-SOIC	9.78	8.02	7.24
DAC902E	DAC902E-ND	12-Bit, 165MSPS DAC	28-TSSOP	14.96	12.58	11.56
DEM-DAC902E	296-19946-ND	Demo Board for DAC902E	—	152.00	—	—
DAC902U	DAC902U-ND	12-Bit, 165MSPS Current Out DAC	28-SOIC	14.96	12.58	11.56
DAC904E	DAC904E-ND	14-Bit, 165MSPS DAC	28-TSSOP	18.48	15.54	14.28
DEM-DAC904E	296-19947-ND	Demo Board for DAC904E	—	152.00	—	—
DAC904U	DAC904U-ND	14-Bit, 165MSPS Current Out DAC	28-SOIC	18.48	15.54	14.28
DAC908E	DAC908E-ND	8-Bit, 165MSPS DAC	28-TSSOP	7.98	6.54	5.91
DAC908U	DAC908U-ND	8-Bit, 165MSPS Current Out DAC	28-SOIC	7.98	6.54	5.91
DEM-DAC90XU	296-9470-ND	Evaluation Module for DAC90X	—	152.00	—	—
DAC1220E	DAC1220E-ND	20-Bit, Mono, LP, Delta-Sigma DAC	16-QSOP	17.60	14.80	13.60
DAC1220EVM	296-17265-ND	Evaluation Module for DAC1220	—	50.00	—	—
DAC1221E	DAC1221E-ND	16-Bit, DAC	16-QSOP	14.52	12.21	11.22
DAC2900-EVM	296-13545-ND	Evaluation Module for DAC2900	—	152.00	—	—
DAC2900Y/250	DAC2900Y/250CT-ND	10-Bit, 125MSPS Dual DAC	48-TQFP	19.23	16.31	15.05
DAC2900Y/250	DAC2900Y/250TR-ND	10-Bit, 125MSPS Dual DAC	48-TQFP	3239.50/250		
DAC2902-EVM	296-13546-ND	Evaluation Module for DAC2902	—	152.00	—	—
DAC2902Y/250	DAC2902Y/250CT-ND	12-Bit, 125MSPS Dual DAC	48-TQFP	23.36	21.03	19.28
DAC2904-EVM	296-13547-ND	Evaluation Module for DAC2904	—	152.00	—	—
DAC3282IRGZT	296-25612-1-ND	16-Bit, 625MSPS Dual DAC* ***NEW!***	48-VQFN	54.53	47.65	44.49
DAC3282IRGZT	296-25612-2-ND	16-Bit, 625MSPS Dual DAC* ***NEW!***	48-VQFN	10045.00/250		
DAC5311IDCKR	296-24180-1-ND	1.8V~5.5V, 1-Channel, LP DAC* ***NEW!***	SC70-6	1.82	1.41	1.28
DAC5311IDCKR	296-24180-2-ND	1.8V~5.5V, 1-Channel, LP DAC* ***NEW!***	SC70-6	2106.00/3,000		
DAC5311IDCKRQ1	296-24816-1-ND	1.8V~5.5V, 1-Channel, LP DAC* ***NEW!***	SC70-6	2.17	1.68	1.52
DAC5311IDCKRQ1	296-24816-2-ND	1.8V~5.5V, 1-Channel, LP DAC* ***NEW!***	SC70-6	2473.80/3,000		
DAC5571EVM	296-18410-ND	Evaluation Module for DAC5571	—	50.00	—	—
DAC5571IDBVT	296-17199-1-ND	8-Bit, 2.7V~5.5V, I^{2}C Interface, Voltage Output DAC	SOT-23-6	3.15	2.58	2.31
DAC5571IDBVT	296-17199-2-ND	8-Bit, 2.7V~5.5V, I^{2}C Interface, Voltage Output DAC	SOT-23-6	485.75/250		
DAC5573EVM	296-16741-ND	Evaluation Module for DAC5573	—	50.00	—	—
DAC5573IPW	296-16636-5-ND	Quad, 8-Bit, LP, Voltage Out, DAC	16-TSSOP	7.75	6.36	5.74
DAC5574IDGS	296-16665-5-ND	Quad, 8-Bit, LP, Voltage Out, DAC	10-MSOP	7.75	6.36	5.74
DAC5652AIPFB	296-22614-ND	Dual 10-Bit, 275MSPS DAC	48-TQFP	17.38	14.62	13.43
DAC5652EVM	296-17891-ND	Evaluation Module for DAC5652	—	152.00	—	—
DAC5652IPFB	296-17892-ND	Dual 10-Bit, 275MSPS DAC	48-TQFP	17.38	14.62	13.43
DAC5652MPFBREP	296-21303-1-ND	Dual 10-Bit, 275MSPS DAC	48-TQFP	25.84	23.26	21.32
DAC5652MPFBREP	296-21303-2-ND	Dual 10-Bit, 275MSPS DAC	48-TQFP	16796.00/1,000		
DAC5662AIPFB	296-22615-ND	Dual 12-Bit, 275MSPS DAC	48-TQFP	21.42	18.21	16.87
DAC5662IPFB	296-17242-ND	Dual 12-Bit, 200MSPS DAC	48-TQFP	21.42	18.21	16.87
DAC5662MPFBEP	296-22559-ND	Dual 12-Bit, 200MSPS DAC	48-TQFP	37.61	32.53	30.50
DAC5672AIPFB	296-22616-ND	Dual 14-Bit, 275MSPS DAC	48-TQFP	26.38	22.43	20.78
DAC5672IPFB	296-17549-ND	Dual 14-Bit, 200MSPS DAC	48-TQFP	26.38	22.43	20.78
DAC5672MPFBEP	296-22560-ND	Dual 14-Bit, 200MSPS DAC	48-TQFP	41.68	36.05	33.80

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DAC5672MPFBREP	296-21305-1-ND	Dual 14-Bit, 200MSPS DAC	48-TQFP	37.76	35.25	32.73
DAC5672MPFBREP	296-21305-2-ND	Dual 14-Bit, 200MSPS DAC	48-TQFP	31091.00/1,000		
DAC5674IPHP	296-15726-ND	14-Bit, 400MSPS DAC	48-HTQFP	37.46	32.40	30.38
DAC5675AIPHP	296-18215-ND	14-Bit, 400MSPS DAC	48-HTQFP	55.68	49.13	46.67
DAC5675IPHP	296-13032-5-ND	14-Bit, 400MSPS DAC	48-HTQFP	55.42	48.90	46.46
DAC5675MPHPEP	296-21306-ND	14-Bit, 400MSPS DAC	48-HTQFP	92.33	81.15	76.95
DAC5681IRGCT	296-24169-1-ND	16-Bit, 1GSPS, 1-Channel DAC*	64-VQFN	55.10	48.14	44.95
DAC5681ZRGCT	296-25165-1-ND	16-Bit, 1GSPS, 1-Channel DAC* ***NEW!***	64-VQFN	56.79	50.30	47.06
DAC5681ZRGCT	296-25165-2-ND	16-Bit, 1GSPS, 1-Channel DAC* ***NEW!***	64-VQFN	10952.00/250		
DAC5682ZIRGCT	296-22919-1-ND	16-Bit, 1GSPS, 2-Channel DAC	64-VQFN	58.54	51.85	48.51
DAC5682ZIRGCT	296-22919-2-ND	16-Bit, 1GSPS, 2-Channel DAC	64-VQFN	11289.50/250		
DAC5686EVM	296-17515-ND	Evaluation Module for DAC5686	—	203.00	—	—
DAC5686IPZP	296-16695-5-ND	16-Bit, 500MSPS, 2-Channel DAC	100-HTQFP	49.40	42.72	40.05
DAC5687EVM	296-18682-ND	Evaluation Module for DAC5687	—	203.00	—	—
DAC5687IPZP	296-17935-ND	16-Bit, 500MSPS, 2x-8x Interpolating 2-Channel DAC	100-HTQFP	45.33	39.20	36.75
DAC5687MPZP-EP	296-19871-ND	16-Bit, 500MSPS, 2x-8x Interpolating 2-Channel DAC	100-HTQFP	74.25	66.38	63.00
DAC5689IRGCT	296-25166-1-ND	16-Bit, 2-Ch., 800MSPS DAC* ***NEW!***	64-VQFN	53.29	47.20	44.16
DAC5689IRGCT	296-25166-2-ND	16-Bit, 2-Ch., 800MSPS DAC* ***NEW!***	64-VQFN	10277.00/250		
DAC6311IDCKT	296-23716-1-ND	10-Bit, 1.8V~5.5V, 1-Ch. DAC	SC70-6	2.49	1.92	1.74
DAC6311IDCKT	296-23716-2-ND	10-Bit, 1.8V~5.5V, 1-Ch. DAC	SC70-6	355.00/250		
DAC6571EVM	296-18412-ND	Evaluation Module for DAC6571	—	50.00	—	—
DAC6573EVM	296-16742-ND	Evaluation Module for DAC6573	—	50.00	—	—
DAC6573IPW	296-16637-5-ND	10-Bit, Quad, LP, Voltage Out DAC	16-TSSOP	9.25	7.59	6.85
DAC6574EVM	296-18414-ND	Evaluation Module for DAC6574	—	50.00	—	—
DAC6574IDGS	296-16666-5-ND	10-Bit, Quad, LP, Voltage Out DAC	10-MSOP	11.50	9.43	8.51
DAC7311IDCKT	296-26043-1-ND	12-Bit, LP, 1-Channel DAC* ***NEW!***	SC70-6	3.15	2.58	2.31
DAC7311IDCKT	296-26043-2-ND	12-Bit, LP, 1-Channel DAC* ***NEW!***	SC70-6	485.75/250		
DAC7512E/250	DAC7512ECT-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	4.98	4.07	3.66
DAC7512E/250	DAC7512ETR-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	767.75/250		
DAC7512N/250	DAC7512NTR-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-6	749.25/250		
DAC7513E/250	DAC7513ECT-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	5.55	4.54	4.07
DAC7513E/250	DAC7513ETR-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	855.75/250		
DAC7513N/250	DAC7513NCT-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-8	5.43	4.44	3.99
DAC7513N/250	DAC7513NTR-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-8	837.25/250		
DAC7541AJP	DAC7541AJP-ND	Quad 12-Bit, CMOS DAC	18-Dip	52.31	46.16	43.85
DAC7541AJU	DAC7541AJU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	52.06	45.03	42.21
DAC7541AKP	DAC7541AKP-ND	Quad 12-Bit, CMOS DAC	18-Dip	59.53	52.53	49.91
DAC7541AKU	DAC7541AKU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	54.98	48.51	46.09
DAC7545GLU	DAC7545GLU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	82.48	73.46	69.60
DAC7545JU	DAC7545JU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	41.51	35.91	33.66
DAC7551IDRNT	296-18583-1-ND	12-Bit, Voltage Output, DAC	12-SON	4.71	3.85	3.46
DAC7551IDRNT	296-18583-2-ND	12-Bit, Voltage Output, DAC	12-SON	726.25/250		
DAC7552IRGTR	296-18222-1-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-VQFN	7.05	5.76	5.17
DAC7552IRGTR	296-18222-2-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-VQFN	9378.00/3,000		
DAC7554EVM	296-17893-ND	Evaluation Module for DAC7554	—	50.00	—	—
DAC7554IDGS	296-17551-5-ND	12-Bit, Quad, Voltage Output DAC	10-MSOP	12.76	10.73	9.86
DAC7558EVM	296-20837-ND	Evaluation Module for DAC7558	—	50.00	—	—
DAC7558IRHBR	296-18198-1-ND	12-Bit, 2.7V~5.5V, Octal, Ultra Low Glitch, Voltage Output DAC	32-VQFN	17.25	14.63	13.50
DAC7558IRHBR	296-18198-2-ND	12-Bit, 2.7V~5.5V, Octal, Ultra Low Glitch, Voltage Output DAC	32-VQFN	28689.00/3,000		
DAC7564IAPW	296-23219-5-ND	12-Bit, 4-Ch., LP, Voltage Output DAC	16-TSSOP	12.00	9.84	8.88
DAC7564ICPW	296-23220-5-ND	12-Bit, 4-Ch., LP, Voltage Output DAC	16-TSSOP	12.76	10.73	9.86
DAC7565IAPW	296-23221-5-ND	12-Bit, 4-Ch., LP, Voltage Output DAC	16-TSSOP	12.00	9.84	8.88
DAC7565ICPW	296-23222-5-ND	12-Bit, 4-Ch., LP, Voltage Output DAC	16-TSSOP	12.76	10.73	9.86
DAC7568IAPW	296-24403-5-ND	12-Bit, 8-Ch., Ultra Low Glitch, Voltage Output DAC* ***NEW!***	14-TSSOP	21.67	18.23	16.75
DAC7568ICPW	296-24404-5-ND	12-Bit, 8-Ch., Ultra Low Glitch, Voltage Output DAC* ***NEW!***	16-TSSOP	20.30	17.26	15.99
DAC7571IDBVR	296-26047-1-ND	12-Bit, I²C Voltage Output DAC* ***NEW!***	SOT-23-6	4.65	3.80	3.41
DAC7571IDBVR	296-26047-2-ND	12-Bit, I²C Voltage Output DAC* ***NEW!***	SOT-23-6	6186.00/3,000		
DAC7571IDBVT	296-14345-2-ND	12-Bit, I²C Voltage Output DAC	SOT23-6	832.50/250		
DAC7573EVM	296-16743-ND	Evaluation Module For DAC7573	—	50.00	—	—
DAC7573IPW	296-15745-5-ND	12-Bit, Quad, Low Power, Voltage Output I²C Interface DAC	16-TSSOP	20.24	17.02	15.64
DAC7574EVM	296-19938-ND	Evaluation Module for DAC7574	—	50.00	—	—
DAC7574IDGSR	296-15227-1-ND	12-Bit, Quad, Low Power, Voltage Output I²C Interface DAC	10-MSOP	14.15	12.00	11.07
DAC7574IDGSR	296-15227-2-ND	12-Bit, Quad, Low Power, Voltage Output I²C Interface DAC	10-MSOP	19603.13/2,500		
DAC7611P	DAC7611P-ND	12-Bit, Serial General Purpose DAC	8-Dip	8.60	7.06	6.37
DAC7611PB	DAC7611PB-ND	12-Bit, Serial General Purpose DAC	8-Dip	9.68	7.94	7.16
DAC7611U	DAC7611U-ND	12-Bit, Serial General Purpose DAC	8-SOIC	7.38	6.05	5.46
DAC7611UB	DAC7611UB-ND	12-Bit, Serial General Purpose DAC	8-SOIC	8.33	6.83	6.17
DAC7612U	DAC7612U-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	9.38	7.69	6.94
DAC7612UB	DAC7612UB-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	10.63	8.72	7.87
DAC7613E	DAC7613E-ND	12-Bit, Voltage Out Mono Parallel DAC ±2 LSB	24-SSOP	7.50	6.15	5.55
DAC7613EB	DAC7613EB-ND	12-Bit, Voltage Out Mono Parallel DAC ±1 LSB	24-SSOP	8.50	6.97	6.29
DAC7631EVM	296-17621-ND	Evaluation Module for DAC7631	—	50.00	—	—
DAC7614E	DAC7614E-ND	Quad Serial-In 12-Bit DAC	20-SSOP	16.83	14.16	13.01
DAC7614EB	DAC7614EB-ND	Quad Serial-In 12-Bit DAC	20-SSOP	17.86	15.03	13.81
DAC7614P	DAC7614P-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-Dip	24.14	20.52	19.02
DAC7614PB	DAC7614PB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-Dip	25.24	21.46	19.88
DAC7614U	DAC7614U-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-SOIC	16.83	14.16	13.01
DAC7614UB	DAC7614UB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-SOIC	17.86	15.03	13.81
DAC7615E	DAC7615E-ND	Quad Serial-In 12-Bit DAC	20-QSOP	17.71	14.90	13.69
DAC7615P	DAC7615P-ND	Quad Serial-In 12-Bit, GP DAC, ±2 LSB	16-Dip	23.12	19.66	18.21
DAC7615PB	DAC7615PB-ND	Quad Serial-In 12-Bit, GP DAC, ±1 LSB	16-Dip	24.22	20.59	19.08
DAC7615U	DAC7615U-ND	Quad Serial-In 12-Bit, GP DAC, ±2 LSB	16-SOIC	17.71	14.90	13.69
DAC7615UB	DAC7615UB-ND	Quad Serial-In 12-Bit, GP DAC, ±1 LSB	16-SOIC	18.81	15.82	14.54
DAC7616EB	DAC7616EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	15.18	12.77	11.73
DAC7616UB	DAC7616UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	15.18	12.77	11.73
DAC7617EB	DAC7617EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	15.18	12.77	11.73
DAC7617UB	DAC7617UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	15.18	12.77	11.73
DAC7621E	DAC7621E-ND	12-Bit, Parallel In DAC, ±2 LSB	20-SSOP	8.25	6.77	6.11
DAC7621EB	DAC7621EB-ND	12-Bit, Parallel In DAC, ±1 LSB	20-SSOP	9.38	7.69	6.94
DAC7624P	DAC7624P-ND	12-Bit, Quad DAC, ±2 LSB, Mid-Scale Reset	28-Dip	23.54	20.01	18.54
DAC7624PB	DAC7624PB-ND	12-Bit, Quad DAC, ±1 LSB, Mid-Scale Reset	28-Dip	25.00	21.25	19.69
DAC7624U	DAC7624U-ND	12-Bit, Quad DAC, ±2 LSB, Mid-Scale Reset	28-SOIC	23.28	19.79	18.34
DAC7624UB	DAC7624UB-ND	12-Bit, Quad DAC, ±1 LSB, Mid-Scale Reset	28-SOIC	24.60	20.91	19.38
DAC7625P	DAC7625P-ND	12-Bit, Quad DAC, ±2 LSB, Zero-Scale Reset	28-Dip	23.54	20.01	18.54
DAC7625PB	DAC7625PB-ND	12-Bit, Quad DAC, ±1 LSB, Zero-Scale Reset	28-Dip	25.00	21.25	19.69
DAC7625U	DAC7625U-ND	12-Bit, Quad DAC, ±2 LSB, Zero-Scale Reset	28-SOIC	23.28	19.79	18.34
DAC7625UB	DAC7625UB-ND	12-Bit, Quad DAC, ±1 LSB, Zero-Scale Reset	28-SOIC	24.60	20.91	19.38
DAC7631E	DAC7631E-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	15.73	13.23	12.16
DAC7631EB	DAC7631EB-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	17.82	14.99	13.77
DAC7634E	DAC7634E-ND	16-Bit, Quad DAC	48-SSOP	40.61	35.12	32.93
DAC7634EB	DAC7634EB-ND	16-Bit, Quad DAC	48-SSOP	46.53	40.24	37.73
DAC7641YB/250	DAC7641YBCT-ND	16-Bit, 5V, DAC	32-TQFP	20.70	18.63	17.08
DAC7641YB/250	DAC7641YBTR-ND	16-Bit, 5V, DAC	32-TQFP	3752.00/250		
DAC7641Y/250	DAC7641YCT-ND	16-Bit, 5V, DAC	32-TQFP	20.93	17.75	16.38
DAC7641Y/250	DAC7641YTR-ND	16-Bit, 5V, DAC	32-TQFP	3526.25/250		
DAC7643VFT	DAC7643VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	29.40	26.46	24.26
DAC7643VFT	DAC7643VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	5328.75/250		
DAC7644E	DAC7644E-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	40.61	35.12	32.93
DAC7644EB	DAC7644EB-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	46.53	40.24	37.73
DAC7654EVM	296-16990-ND	Evaluation Module for DAC7654	—	50.00	—	—
DAC7654YCT	296-17887-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	62.31	54.98	52.23
DAC7664YCT	296-16928-1-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	61.25	54.25	50.75
DAC7714U	DAC7714U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	25.56	21.73	20.13
DAC7714UB	DAC7714UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	27.74	23.58	21.85
DAC7715U	DAC7715U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	25.56	21.73	20.13
DAC7715UB	DAC7715UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	27.74	23.58	21.85
DAC7716SPFB	296-25113-ND	12-Bit, Quad Voltage Out, Serial DAC* ***NEW!***	48-TQFP	25.90	22.02	20.40
DAC7716SRHAT	296-25114-1-ND	12-Bit, Quad Voltage Out, Serial DAC* ***NEW!***	40-QFN	24.90	22.41	20.55
DAC7716SRHAT	296-25114-2-ND	12-Bit, Quad Voltage Out, Serial DAC* ***NEW!***	40-QFN	4513.25/250		
DAC7718SRGZT	296-25558-1-ND	12-Bit, Octal Voltage Out, Serial DAC* ***NEW!***	48-VQFN	26.90	24.21	22.20
DAC7718SRGZT	296-25558-2-ND	12-Bit, Octal Voltage Out, Serial DAC* ***NEW!***	48-VQFN	4875.75/250		
DAC7724N	DAC7724N-ND	12-Bit, Quad Parallel DAC	28-PLCC	27.46	23.35	21.63
DAC7724NB	DAC7724NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	29.16	24.79	22.97
DAC7724U	DAC7724U-ND	12-Bit, Quad Parallel DAC	28-SOIC	26.32	22.38	20.73
DAC7724UB	DAC7724UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	28.70	24.40	22.61
DAC7725N	DAC7725N-ND	12-Bit, Quad Parallel DAC	28-PLCC	23.66	20.12	18.64
DAC7725NB	DAC7725NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	29.16	24.79	22.97
DAC7725UB	DAC7725UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	28.70	24.40	22.61
DAC7728SPAG	296-25468-ND	12-Bit, Octal Parallel DAC* ***NEW!***	64-TQFP	27.90	23.72	21.98
DAC7728SRTQT	296-25469-1-ND	12-Bit, Octal Parallel DAC* ***NEW!***	56-QFN	26.90	24.21	22.20
DAC7728SRTQT	296-25469-2-ND	12-Bit, Octal Parallel DAC* ***NEW!***	56-QFN	4875.75/250		
DAC7731EC	DAC7731EC-ND	16-Bit, Low Power DAC	24-SSOP	25.20	21.42	19.85
DAC7734E	DAC7734E-ND	16-Bit, Quad Voltage Out, Serial DAC	48-SSOP	56.87	50.18	47.67
DAC7734EB	DAC7734EB-ND	16-Bit, Quad Voltage Out, Serial DAC	48-SSOP	58.82	51.90	49.31
DAC7734EC	DAC7734EC-ND	16-Bit, Quad Voltage Out, Serial DAC	48-SSOP	70.29	62.84	59.64
DAC7741EVM	296-19940-ND	Evaluation Module for DAC7741	—	101.00	—	—
DAC7741YC/250	DAC7741YC/250CT-ND	16-Bit, Low Power DAC	48-LQFP	25.60	23.04	21.12
DAC7741YC/250	DAC7741YC/250TR-ND	16-Bit, Low Power DAC	48-LQFP	4640.00/250		
DAC7742Y/250	296-14169-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	24.80	22.32	20.46
DAC7742Y/250	296-14169-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	4495.00/250		
DAC7744E	DAC7744E-ND	16-Bit, Quad Parallel DAC	48-SSOP	56.87	50.18	47.67
DAC7744EB	DAC7744EB-ND	16-Bit, Quad Parallel DAC	48-SSOP	62.22	54.90	52.16
DAC7744EC	DAC7744EC-ND	16-Bit, Quad Parallel DAC	48-SSOP	70.29	62.84	59.64
DAC7800KU	296-26050-5-ND	12-Bit, Dual Monolithic DAC* ***NEW!***	16-SOIC	29.54	25.11	23.27
DAC7800LU	296-12976-5-ND	12-Bit, Dual Monolithic DAC	16-SOIC	38.13	32.98	30.92
DAC7801KP	DAC7801KP-ND	12-Bit, Dual Monolithic DAC	24-Dip	47.97	41.49	38.90
DAC7801LP	DAC7801LP-ND	12-Bit, Dual Monolithic DAC	24-Dip	54.91	48.45	46.03
DAC7801LU	296-18289-5-ND	12-Bit, Dual Monolithic DAC	24-SOIC	53.74	46.48	43.58
DAC7802KU	296-12978-5-ND	12-Bit, Dual Monolithic DAC	24-SOIC	30.40	25.84	23.94
DAC7802LP	DAC7802LP-ND	12-Bit, Dual Monolithic DAC	24-Dip	43.33	37.48	35.13
DAC7802LU	296-12980-5-ND	12-Bit, Dual Monolithic DAC	24-SOIC	37.44	32.39	30.36
DAC7811EVM	296-18684-ND	Evaluation Module for DAC7811	—	50.00	—	—
DAC7811IDGSR	296-19660-1-ND	12-Bit, Serial In, Multiplying DAC	10-MSOP	7.26	5.93	5.33
DAC7811IDGSR	296-19660-2-ND	12-Bit, Serial In, Multiplying DAC	10-MSOP	8047.50/2,500		
DAC7821IPW	296-19540-5-ND	12-Bit, Parallel In, Multiplying DAC	20-TSSOP	7.48	6.13	5.54
DAC7822IRTAT	296-20636-1-ND	12-Bit, Dual Parallel In Multiplying DAC	40-QFN	11.08	9.20	8.36
DAC8043UC	DAC8043UC-ND	12-Bit, Serial-In DAC	8-SOIC	12.85	10.81	9.93
DAC8043U	DAC8043U-ND	12-Bit, Serial-In DAC	8-SOIC	10.33	8.47	7.65
DAC8164IAPW	296-23142-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	18.15	15.27	14.03
DAC8164IBPW	296-23143-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	20.50	17.43	16.15
DAC8164ICPW	296-23144-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	20.35	17.12	15.73
DAC8164IDPW	296-23145-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	22.50	19.13	17.72
DAC8165IAPW	296-23146-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	18.15	15.27	14.03
DAC8165IBPW	296-23147-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	20.50	17.43	16.15
DAC8165ICPW	296-23148-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	20.35	17.12	15.73
DAC8165IDPW	296-23149-5-ND	14-Bit, Quad Ch., Voltage Output DAC	16-TSSOP	22.50	19.13	17.72
DAC8168IAPW	296-24405-5-ND	14-Bit, 8-Ch., Ultra Low Glitch, Voltage Output DAC* ***NEW!***	14-TSSOP	24.40	20.74	19.22
DAC8168ICPW	296-24406-5-ND	14-Bit, 8-Ch., Ultra Low Glitch, Voltage Output DAC* ***NEW!***	16-TSSOP	29.60	25.16	23.31
DAC8218SRGZT	296-25559-1-ND	14-Bit, 8-Ch., High Voltage Out DAC* ***NEW!***	48-VQFN	38.90	35.01	32.10
DAC8218SRGZT	296-25559-2-ND	14-Bit, 8-Ch., High Voltage Out DAC* ***NEW!***	48-VQFN	7050.75/250		
DAC8228SPAG	296-25470-ND	14-Bit, 8-Ch. High Voltage Out DAC* ***NEW!***	64-TQFP	39.90	33.92	31.43

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(Continued)

DATA CONVERSION

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DAC8228SRTQT	296-25471-1-ND	14-Bit, 8-Ch. High Voltage Out DAC* ***NEW!***	56-QFN	38.90	35.01	32.10
DAC8228SRTQT	296-25471-2-ND	14-Bit, 8-Ch. High Voltage Out DAC* ***NEW!***	56-QFN	7050.75/250		
DAC8234SPFB	296-25115-ND	14-Bit, Quad Ch., Voltage Output DAC* ***NEW!***	48-TQFP	40.61	35.12	32.93
DAC8234SRHAT	296-25116-1-ND	14-Bit, Quad Ch., Voltage Output DAC* ***NEW!***	40-QFN	40.76	35.61	33.25
DAC8234SRHAT	296-25116-2-ND	14-Bit, Quad Ch., Voltage Output DAC* ***NEW!***	40-QFN	7507.50/250		
DAC8411IDCKT	296-23761-1-ND	16-Bit, 1-Ch., 1.8V~5.5V DAC	SC70-6	8.43	7.00	6.36
DAC8501E/250	DAC8501E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	8.69	7.22	6.56
DAC8501E/250	DAC8501E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1394.00/250		
DAC8531E/250	DAC8531E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	8.69	7.22	6.56
DAC8531E/250	DAC8531E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1394.00/250		
DAC8531EVM	296-13548-ND	Evaluation Module for DAC8531	—	101.00	—	—
DAC8532IDGK	DAC8532IDGK-ND	16-Bit, 2-Channel, Low Power DAC	8-MSOP	13.49	11.35	10.43
DAC8534EVM	296-17255-ND	Evaluation Module for DAC8534	—	50.00	—	—
DAC8534IPW	296-13718-5-ND	16-Bit, Quad Ch., LP, Serial In DAC	16-TSSOP	21.96	18.47	16.97
DAC8541EVM	296-19941-ND	Evaluation Module for DAC8541	—	101.00	—	—
DAC8541Y/250	296-12427-1-ND	16-Bit, Low Power DAC	32-TQFP	9.14	7.59	6.90
DAC8541Y/250	296-12427-2-ND	16-Bit, Low Power DAC	32-TQFP	1466.25/250		
DAC8544IPFB	296-17092-ND	16-Bit, Quad R/R Volt. Output DAC	48-TQFP	28.40	24.14	22.37
DAC8551EVM	296-20838-ND	Evaluation Module for DAC8551	—	50.00	—	—
DAC8551IADGKT	296-21222-1-ND	16-Bit Ultra Low Glitch, Volt. Out DAC	8-MSOP	6.81	5.66	5.14
DAC8551IDGKT	296-18290-1-ND	16-Bit Ultra Low Glitch, Volt. Out DAC	8-MSOP	7.55	6.27	5.70
DAC8552IDGKT	296-20676-1-ND	16-Bit, 2-Channel Voltage Out DAC	8-MSOP	9.33	7.75	7.04
DAC8552IDGKT	296-20676-2-ND	16-Bit, 2-Channel Voltage Out DAC	8-MSOP	1496.00/250		
DAC8554EVM	296-19429-ND	Evaluation Module for DAC8554	—	50.00	—	—
DAC8554IPW	296-18310-5-ND	16-Bit, Quad Channel, Ultra Low Glitch, Voltage Output DAC	16-TSSOP	16.94	14.25	13.09
DAC8555IPW	296-19402-5-ND	16-Bit, Quad Channel, Ultra Low Glitch, Voltage Output DAC	16-TSSOP	16.94	14.25	13.09
DAC8560IADGKT	296-21385-1-ND	16-Bit, Ultra Low Glitch, Volt. Out DAC	8-MSOP	8.88	7.37	6.70
DAC8560IADGKT	296-21385-2-ND	16-Bit, Ultra Low Glitch, Volt. Out DAC	8-MSOP	1423.75/250		
DAC8564IAPW	296-22920-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.24	17.02	15.64
DAC8564IBPW	296-22921-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.80	17.68	16.38
DAC8564ICPW	296-22922-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.40	17.34	16.07
DAC8564IDPW	296-22923-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	22.80	19.38	17.96
DAC8565IAPW	296-22924-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.24	17.02	15.64
DAC8565IBPW	296-22925-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.80	17.68	16.38
DAC8565ICPW	296-22926-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	20.40	17.34	16.07
DAC8565IDPW	296-22927-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC	16-TSSOP	22.80	19.38	17.96
DAC8568IAPW	296-24444-5-ND	16-Bit, 8-Channel DAC* ***NEW!***	16-TSSOP	24.60	20.91	19.38
DAC8568IBPW	296-24445-5-ND	16-Bit, 8-Channel DAC* ***NEW!***	16-TSSOP	24.60	20.91	19.38
DAC8568ICPW	296-24446-5-ND	16-Bit, 8-Channel DAC* ***NEW!***	16-TSSOP	29.36	24.96	23.13
DAC8568IDPW	296-24447-5-ND	16-Bit, 8-Channel DAC* ***NEW!***	16-TSSOP	29.36	24.96	23.13
DAC8571EVM	296-19942-ND	Evaluation Module for DAC8571	—	50.00	—	—
DAC8571IDGK	296-26051-5-ND	16-Bit, Low Power I^2C DAC* ***NEW!***	8-MSOP	8.88	7.28	6.57
DAC8571IDGKR	296-14307-1-ND	16-Bit, Low Power I^2C DAC	8-MSOP	7.82	6.49	5.90
DAC8571IDGKR	296-14307-2-ND	16-Bit, Low Power I^2C DAC	8-MSOP	9587.50/2,500		
DAC8574EVM	296-18415-ND	Evaluation Module for DAC8574	—	50.00	—	—
DAC8574IPW	296-14170-5-ND	16-Bit, Quad Rail-to-Rail DAC	16-TSSOP	29.70	25.25	23.39
DAC8580IPW	296-18311-5-ND	16-Bit, HS, LN, Voltage Output DAC	16-TSSOP	6.30	5.07	4.62
DAC8581EVM	296-19404-ND	Evaluation Module for DAC8581	—	50.00	—	—
DAC8581IPW	296-18312-5-ND	16-Bit, HS, LN, Voltage Output DAC	16-TSSOP	6.30	5.07	4.62
DAC8718SRGZT	296-25560-1-ND	16-Bit, Octal High Voltage Out DAC* ***NEW!***	48-VQFN	44.56	38.93	36.35
DAC8718SRGZT	296-25560-2-ND	16-Bit, Octal High Voltage Out DAC* ***NEW!***	48-VQFN	8207.50/250		
DAC8728SPAG	296-25472-ND	16-Bit, Octal High Volt. Out DAC* ***NEW!***	64-TQFP	44.31	38.32	35.93
DAC8728SRTQT	296-25473-1-ND	16-Bit, Octal High Volt. Out DAC* ***NEW!***	56-QFN	44.56	38.93	36.35
DAC8728SRTQT	296-25473-2-ND	16-Bit, Octal High Volt. Out DAC* ***NEW!***	56-QFN	8207.50/250		
DAC8734SPFB	296-25117-ND	16-Bit, Quad, Volt. Output DAC* ***NEW!***	48-TQFP	53.56	46.32	43.43
DAC8734SRHAT	296-25118-1-ND	16-Bit, Quad, Volt. Output DAC* ***NEW!***	40-QFN	54.06	47.23	44.10
DAC8734SRHAT	296-25118-2-ND	16-Bit, Quad, Volt. Output DAC* ***NEW!***	40-QFN	9957.50/250		
DAC8801EVM	296-18416-ND	Evaluation Module for DAC8801	—	50.00	—	—
DAC8801IDGKT	296-17641-1-ND	14-Bit Multiplying DAC	8-MSOP	11.59	9.83	9.08
DAC8801IDGKT	296-17641-2-ND	14-Bit Multiplying DAC	8-MSOP	1953.00/250		
DAC8801IDRBT	296-17642-1-ND	14-Bit Multiplying DAC	8-SON	11.59	9.83	9.08
DAC8802IPW	296-19405-5-ND	14-Bit, Dual, Serial In Multiplying DAC	16-TSSOP	15.36	12.92	11.87
DAC8803IDBT	296-18685-1-ND	14-Bit, Quad, Serial In Multiplying DAC	28-SSOP	26.88	24.20	22.18
DAC8803IDBT	296-18685-2-ND	14-Bit, Quad Serial In Multiplying DAC	28-SSOP	4872.00/250		
DAC8806IDB	296-19722-5-ND	14-Bit, Parallel In Multiplying DAC	28-SSOP	13.79	11.60	10.66
DAC8811EVM	296-18417-ND	Evaluation Module for DAC8811	—	50.00	—	—
DAC8811IBDGKT	296-17643-1-ND	16-Bit Multiplying DAC	8-MSOP	18.03	15.29	14.12
DAC8811IBDGKT	296-17643-2-ND	16-Bit Multiplying DAC	8-MSOP	3038.00/250		
DAC8812IBPW	296-19406-5-ND	16-Bit, Dual, Serial In Multiplying DAC	16-TSSOP	21.12	17.76	16.32
DAC8812ICPW	296-19407-5-ND	16-Bit, Dual, Serial In Multiplying DAC	16-TSSOP	22.32	18.98	17.58
DAC8814ICDBT	296-18609-1-ND	16-Bit, Quad, Serial In Multiplying DAC	28-SSOP	38.27	33.44	31.22
DAC8820IBDB	296-19654-5-ND	16-Bit, Parallel In Multiplying DAC	28-SSOP	21.32	17.93	16.48
DAC8820ICDB	296-19655-5-ND	16-Bit, Parallel In Multiplying DAC	28-SSOP	22.62	19.23	17.82
DAC8822QCDBTR	296-21699-1-ND	16-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	21.74	18.43	17.01
DAC8830IBD	296-21736-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	21.12	17.76	16.32
DAC8830ICD	296-21737-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	21.63	18.19	16.72
DAC8830ID	296-21738-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	19.95	16.78	15.42
DAC8831EVM	296-20839-ND	Evaluation Module for DAC8831	—	50.00	—	—
DAC8831IBD	296-18028-5-ND	2.7V~5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	21.12	17.76	16.32
DAC8831IBRGYT	296-20703-1-ND	2.7V~5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	21.21	17.98	16.60

DATA CONVERSION

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DAC8831ICD	296-18029-5-ND	2.7V~5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	21.63	18.19	16.72
DAC8831ID	296-18030-5-ND	2.7V~5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	19.95	16.78	15.42
DAC8831MCDEP	296-21224-5-ND	2.7V~5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	29.76	25.30	23.44
DAC8832ICRGYT	296-19588-1-ND	16-Bit Ultra LP, Voltage Output DAC	14-QFN	21.74	18.43	17.01
DAC8832IRGYR	296-25818-1-ND	16-Bit Ultra LP, Voltage Output DAC* ***NEW!***	14-QFN	17.37	14.73	13.59
DAC8832IRGYR	296-25818-2-ND	16-Bit Ultra LP, Voltage Output DAC* ***NEW!***	14-QFN	28878.00/3,000		
DAC8871SPW	296-22151-5-ND	16-Bit, 1-Ch., Serial In/Volt. Out, DAC	16-TSSOP	20.06	16.88	15.51
DAC8881SRGET	296-22741-1-ND	16-Bit, 1-Channel Volt. Output DAC	24-QFN	21.16	17.94	16.56
DAC8881SRGET	296-22741-2-ND	16-Bit, 1-Channel Volt. Output DAC	24-QFN	3565.00/250		
DAC9881SBRGET	296-23701-1-ND	18-Bit, 1-Ch., LN, Volt. Out DAC	24-VQFN	50.16	43.83	40.92
DAC9881SRGET	296-23702-1-ND	18-Bit, 1-Ch., LN, Volt. Out DAC	24-VQFN	36.80	33.12	30.36
DAC9881SRGET	296-23702-2-ND	18-Bit, 1-Ch., LN, Volt. Out DAC	24-VQFN	6670.00/250		
DSD1608PAH	296-13451-ND	24-Bit, 8-Channel Multi-Format DAC	52-TQFP	15.73	13.23	12.16
THS5641AIDW	296-2989-5-ND	8-Bit, 100MSPS 3V-5V Single DAC	28-SOIC	8.33	6.83	6.17
THS5641AIPW	296-2990-5-ND	8-Bit, 100MSPS 3V-5V Single DAC	28-TSSOP	8.33	6.83	6.17
THS5641EVM	296-10055-ND	Evaluation Module for THS5641	—	101.00	—	—
THS5651AIDW	296-2992-5-ND	10-Bit, 125MSPS 3V-5V Single DAC	20-SOIC	11.18	9.40	8.64
THS5651AIPW	296-2287-5-ND	10-Bit, 125MSPS 3V-5V Single DAC	28-TSSOP	11.18	9.40	8.64
THS5651EVM	296-10056-ND	Evaluation Module for THS5651	—	101.00	—	—
THS5661AIDW	296-2995-5-ND	12-Bit, 125MSPS 3V-5V Single DAC	28-SOIC	16.52	13.90	12.77
THS5661AIPW	296-2288-5-ND	12-Bit, 125MSPS 3V-5V Single DAC	28-TSSOP	16.52	13.90	12.77
THS5671AIDW	296-2998-5-ND	14-Bit, 125MSPS 3V-5V Single DAC	28-SOIC	22.10	18.79	17.41
THS5671AIPW	296-2289-5-ND	14-Bit, 125MSPS 3V-5V Single DAC	28-TSSOP	22.40	19.04	17.64
THS5671EVM	296-10058-ND	Evaluation Module for THS5671	—	101.00	—	—
THS8133BCPHP	296-2999-ND	10-Bit, 80MSPS 3V-5V Triple Video DAC	48-HTQFP	7.50	6.15	5.55
THS8134BCPHP	296-3001-ND	8-Bit, 80MSPS 3V-5V Triple Video DAC	48-HTQFP	7.50	6.15	5.55
THS8135PHP	296-13049-5-ND	10-Bit, Triple Video DAC	48-HTQFP	7.50	6.15	5.55
THS8136IPHP	296-23965-ND	10-Bit, 180MSPS Triple Video DAC	48-HTQFP	7.50	6.15	5.55
TLC5602CDW	296-3003-5-ND	8-Bit, 30MSPS 5V Single Video DAC	20-SOIC	4.93	3.96	3.61
TLC5602CDWR	296-26758-1-ND	8-Bit, 30MSPS Single DAC* ***NEW!***	20-SOIC	4.41	3.61	3.24
TLC5602CDWR	296-26758-2-ND	8-Bit, 30MSPS Single DAC* ***NEW!***	20-SOIC	3910.00/2,000		
TLC5615CD	296-3004-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	6.13	4.93	4.49
TLC5615CDGK	296-3005-5-ND	10-Bit, 12.5us, 5V Single Serial DAC	8-TSSOP	6.13	4.93	4.49
TLC5615CP	296-3006-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	5.07	4.08	3.72
TLC5615ID	296-3007-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	6.38	5.13	4.68
TLC5615IP	296-2292-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	5.32	4.28	3.90
TLC5618AQD	296-3011-5-ND	12-Bit, 2.5µs, 5V Dual Serial DAC	8-SOIC	11.33	9.53	8.76
TLC5620CD	296-1861-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	5.88	4.73	4.31
TLC5620CN	296-1862-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	5.18	4.17	3.80
TLC5620ID	296-1339-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	6.30	5.07	4.62
TLC5620IDR	296-1339-1-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	5.55	4.54	4.07
TLC5620IDR	296-1339-2-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	6151.25/2,500		
TLC5620IN	296-3012-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	5.46	4.39	4.00
TLC5628CDW	296-1864-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	7.38	6.05	5.46
TLC5628CN	296-1865-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	6.38	5.23	4.72
TLC5628IDW	296-3013-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	7.88	6.46	5.83
TLC5628IN	296-3014-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	6.88	5.64	5.09
TLC7225CDW	296-3015-5-ND	8-Bit, 5µs, 5V-15V Quad Parallel DAC	24-SOIC	6.78	5.56	5.02
TLC7225IDW	296-3016-5-ND	8-Bit, 5µs, 5V-15V Quad Parallel DAC	24-SOIC	7.13	5.85	5.28
TLC7226CDW	296-3017-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	6.92	5.56	5.07
TLC7226CN	296-3018-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	5.99	4.82	4.39
TLC7226IDW	296-3019-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	6.65	5.46	4.93
TLC7226IN	296-2296-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	6.52	5.25	4.78
TLC7524CD	296-1866-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-SOIC	4.65	3.74	3.41
TLC7524CFN	296-1867-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	20-PLCC	4.65	3.74	3.41
TLC7524CN	296-1868-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	4.12	3.31	3.02
TLC7524CPW	296-3020-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-TSSOP	4.65	3.74	3.41
TLC7524ED	296-26763-5-ND	8-Bit, 0.1µS, 5V-15V Single Parallel Multiplying DAC* ***NEW!***	16-SOIC	5.32	4.28	3.90
TLC7524EN	296-1869-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	4.65	3.74	3.41
TLC7524ID	296-3021-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-SOIC	5.07	4.08	3.72
TLC7524IFN	296-3022-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	20-PLCC	4.12	3.31	3.02
TLC7524IN	296-3023-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	4.40	3.54	3.22
TLC7528CDW	296-1340-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	4.70	3.78	3.45
TLC7528CDWR	296-1340-1-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	4.17	3.41	3.06
TLC7528CDWR	296-1340-2-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3698.00/2,000		
TLC7528CFN	296-3024-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-PLCC	4.70	3.78	3.45
TLC7528CN	296-1871-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	3.89	3.13	2.85
TLC7528EDW	296-3025-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	5.29	4.26	3.88
TLC7528EN	296-3026-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	4.70	3.78	3.45
TLC7528IDW	296-3027-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	5.07	4.08	3.72
TLC7528IFN	296-3028-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-PLCC	4.23	3.40	3.10
TLC7528IN	296-3029-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	4.23	3.40	3.10
TLC7528IPW	296-3030-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-TSSOP	5.07	4.08	3.72
TLC7628CDW	296-3031-5-ND	8-Bit, 0.1µs, 11V-14V Dual Parallel Multiplying DAC	20-SOIC	5.07	4.08	3.72
TLC7628CN	296-3032-5-ND	8-Bit, 0.1µs, 11V-14V Dual Parallel Multiplying DAC	20-Dip	5.32	4.28	3.90

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA CONVERSION
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV5604CD	296-2297-5-ND	10-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-SOIC	10.70	8.78	7.92
TLV5604CPW	296-3033-5-ND	10-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-TSSOP	10.70	8.78	7.92
TLV5604ID	296-1916-5-ND	10-Bit, 3µs, 2.7V~5.5V Quad Parallel DAC	16-SOIC	11.28	9.25	8.35
TLV5604IPW	296-1917-5-ND	10-Bit, 3µs, 2.7V~5.5V Quad Parallel DAC	16-TSSOP	11.28	9.25	8.35
TLV5606CD	296-2298-5-ND	10-Bit, 3 or 9µs, 2.7V~5.5V Single Serial DAC	8-SOIC	4.26	3.42	3.12
TLV5606ID	296-3034-5-ND	10-Bit, 3 or 9µs, 2.7V~5.5V Single Serial DAC	8-SOIC	4.54	3.65	3.33
TLV5606IDGK	296-3035-5-ND	10-Bit, 3 or 9µs, 2.7V~5.5V Single Serial DAC	8-MSOP	4.54	3.65	3.33
TLV5608IDW	296-3036-5-ND	10-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	12.34	10.38	9.54
TLV5608IPW	296-3037-5-ND	10-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	12.34	10.38	9.54
TLV5610IDW	296-3038-5-ND	12-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	24.04	20.44	18.94
TLV5610IPW	296-3039-5-ND	12-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	24.04	20.44	18.94
TLV5610IYE	296-17097-ND	12-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-WCSP	23.08	19.62	18.18
TLV5613CDW	296-2299-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	7.85	6.44	5.81
TLV5613CPW	296-1918-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	7.85	6.44	5.81
TLV5613IDW	296-1919-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	9.98	8.18	7.39
TLV5613IPW	296-1920-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	9.98	8.18	7.39
TLV5614CD	296-2300-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-SOIC	19.45	16.36	15.03
TLV5614CPW	296-3040-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-TSSOP	21.48	18.26	16.92
TLV5614ID	296-1921-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-SOIC	22.80	19.38	17.96
TLV5614IPW	296-1922-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-TSSOP	22.80	19.38	17.96
TLV5614IYE	296-25178-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC* ***NEW!***	16-WCSP	20.90	17.77	16.46
TLV5616CD	296-2301-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-SOIC	9.50	7.79	7.03
TLV5616CDR	296-2301-1-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-SOIC	8.32	6.91	6.28
TLV5616CP	296-3041-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-Dip	7.85	6.44	5.81
TLV5616ID	296-1923-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-SOIC	9.98	8.18	7.39
TLV5616IDR	296-1923-1-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-SOIC	8.82	7.33	6.66
TLV5616IDGK	296-3042-5-ND	12-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	8-MSOP	9.98	8.18	7.39
TLV5617ACD	296-2302-5-ND	10-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	6.53	5.36	4.83
TLV5617AID	296-3043-5-ND	10-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	6.90	5.66	5.11
TLV5618ACD	296-2303-5-ND	12-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	12.85	10.81	9.93
TLV5618AID	296-3044-5-ND	12-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	13.68	11.51	10.58
TLV5618AIP	296-10735-5-ND	12-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-Dip	11.40	9.59	8.81
TLV5618AMDREP	296-21259-1-ND	12-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	17.02	14.43	13.32
TLV5618AQD	296-2304-5-ND	12-Bit, 2.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	13.18	11.09	10.19
TLV5619CDW	296-1924-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	11.88	9.74	8.79
TLV5619CPW	296-1925-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	11.88	9.74	8.79
TLV5619IDW	296-3045-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	11.09	9.33	8.57
TLV5619IPW	296-2305-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	11.09	9.33	8.57
TLV5620CD	296-3047-5-ND	8-Bit, 10µs, 2.7V~5.25V Quad Serial DAC	14-SOIC	3.19	2.57	2.34
TLV5620CN	296-2306-5-ND	8-Bit, 10µs, 2.7V~5.25V Quad Serial DAC	14-Dip	3.05	2.46	2.24
TLV5620ID	296-3048-5-ND	8-Bit, 10µs, 2.7V~5.25V Quad Serial DAC	14-SOIC	3.47	2.79	2.55
TLV5620IN	296-3049-5-ND	8-Bit, 10µs, 2.7V~5.25V Quad Serial DAC	14-Dip	3.33	2.68	2.44
TLV5621ID	296-2307-5-ND	8-Bit, 10µs, 2.7V~5.25V Quad Serial DAC	14-SOIC	6.66	5.36	4.88
TLV5623CD	296-2308-5-ND	8-Bit, 3µs, 2.7V~5.5V Single Serial DAC	8-SOIC	3.19	2.57	2.34
TLV5623CDGK	296-3051-5-ND	8-Bit, 3µs, 2.7V~5.5V Single Serial DAC	8-MSOP	3.19	2.57	2.34
TLV5623ID	296-3052-5-ND	8-Bit, 3µs, 2.7V~5.5V Single Serial DAC	8-SOIC	3.47	2.79	2.55
TLV5623IDGK	296-3053-5-ND	8-Bit, 3µs, 2.7V~5.5V Single Serial DAC	8-MSOP	3.47	2.79	2.55
TLV5624CD	296-2309-5-ND	8-Bit, 1.0-3.5µs, 2.7V~5.5V Single Serial DAC	8-SOIC	4.26	3.42	3.12
TLV5624ID	296-3054-5-ND	8-Bit, 1.0-3.5µs, 2.7V~5.5V Single Serial DAC	8-SOIC	5.46	4.39	4.00
TLV5624IDGK	296-3055-5-ND	8-Bit, 1.0-3.5µs, 2.7V~5.5V Single Serial DAC	8-MSOP	5.46	4.39	4.00
TLV5625CD	296-2310-5-ND	8-Bit, 3 or 10µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	5.46	4.39	4.00
TLV5625ID	296-3056-5-ND	8-Bit, 3 or 10µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	5.85	4.71	4.29

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA CONVERSION
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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV5626CD	296-2311-5-ND	8-Bit, 1µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	6.13	4.93	4.49
TLV5626ID	296-3057-5-ND	8-Bit, 1µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	6.38	5.13	4.68
TLV5627CD	296-2312-5-ND	8-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-SOIC	6.66	5.36	4.88
TLV5627ID	296-3058-5-ND	8-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-SOIC	5.85	4.71	4.29
TLV5627IPW	296-3059-5-ND	8-Bit, 3µs, 2.7V~5.5V Quad Serial DAC	16-TSSOP	6.30	5.17	4.67
TLV5628CDW	296-3060-5-ND	8-Bit, 10µs, 2.7V~5.5V Octal Serial DAC	16-SOIC	6.43	5.27	4.76
TLV5628CN	296-2313-5-ND	8-Bit, 10µs, 2.7V~5.5V Octal Serial DAC	16-Dip	6.13	4.93	4.49
TLV5628IDW	296-3061-5-ND	8-Bit, 10µs, 2.7V~5.5V Octal Serial DAC	16-SOIC	6.78	5.56	5.02
TLV5628IN	296-3062-5-ND	8-Bit, 10µs, 2.7V~5.5V Octal Serial DAC	16-Dip	6.66	5.36	4.88
TLV5629IDW	296-3063-5-ND	8-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	9.03	7.41	6.68
TLV5629IPW	296-3064-5-ND	8-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	9.03	7.41	6.68
TLV5630IDW	296-3065-5-ND	12-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	21.10	17.94	16.62
TLV5630IPW	296-3066-5-ND	12-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	24.90	21.17	19.61
TLV5631IDW	296-3067-5-ND	10-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	14.10	11.86	10.90
TLV5631IPW	296-3068-5-ND	10-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	14.10	11.86	10.90
TLV5632IDW	296-3069-5-ND	8-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-SOIC	12.00	9.84	8.88
TLV5632IPW	296-3070-5-ND	8-Bit, 1/3µs, 2.7V~5.5V Octal Serial DAC	20-TSSOP	12.00	9.84	8.88
TLV5633CDW	296-2314-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	12.34	10.38	9.54
TLV5633IDW	296-3071-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	13.27	11.16	10.26
TLV5633IPW	296-3072-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	13.27	11.16	10.26
TLV5636CD	296-2315-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	8-SOIC	11.59	9.75	8.96
TLV5636ID	296-3073-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	8-SOIC	12.34	10.38	9.54
TLV5636IDGK	296-3074-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	8-MSOP	12.34	10.38	9.54
TLV5637CD	296-2316-5-ND	10-Bit, 1µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	9.38	7.69	6.94
TLV5637ID	296-3075-5-ND	10-Bit, 1µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	12.13	9.95	8.98
TLV5638CD	296-2317-5-ND	12-Bit, 1 or 3.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	11.81	9.94	9.13
TLV5638ID	296-3076-5-ND	12-Bit, 1 or 3.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	12.54	10.55	9.69
TLV5638MDREP	296-18149-1-ND	12-Bit, 1 or 3.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	15.64	13.26	12.24
TLV5638QD	296-3077-5-ND	12-Bit, 1 or 3.5µs, 2.7V~5.5V Dual Serial DAC	8-SOIC	12.01	10.11	9.29
TLV5639CDW	296-2318-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	10.33	8.47	7.65
TLV5639IDW	296-3078-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-SOIC	11.05	9.07	8.18
TLV5639IPW	296-3079-5-ND	12-Bit, 1µs, 2.7V~5.5V Single Parallel DAC	20-TSSOP	11.70	9.85	9.05
P82B96DGKR	296-20941-1-ND	Dual Bidirectional Bus Buffer	8-MSOP	4.80	3.92	3.52
P82B96DGKR	296-20941-2-ND	Dual Bidirectional Bus Buffer	8-MSOP	5320.00/2,500		
P82B96P	296-20943-5-ND	Dual Bidirectional Bus Buffer	8-Dip	4.48	3.60	3.28
Audio Digital-to-Analog Converters						
DF1704E	DF1704E-ND	Stereo, 24-Bit, Digital Interpolation Filter for PCM1704	28-SSOP	30.00	25.50	23.63
DSD1702E	296-13072-5-ND	Enhanced Multiformat, Delta-Sigma, Audio DAC	20-QSOP	7.38	6.05	5.46
DSD1791DB	296-15082-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	6.38	5.23	4.72
DSD1792DB	296-15310-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	23.38	19.88	18.42
DSD1793DB	296-15083-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	6.38	5.23	4.72
DSD1794ADBR	296-21535-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	22.89	19.41	17.91
DSD1794DB	296-15311-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	23.38	19.88	18.42
DSD1796DB	296-18431-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	8.88	7.28	6.57
PCM56P	PCM56P-ND	Serial In 16-Bit, Mono DAC, 80dB	16-Dip	19.36	16.28	14.96
PCM56U	PCM56U-ND	16-Bit, Audio DAC	16-SOIC	21.08	17.92	16.61
PCM1600Y	PCM1600Y-ND	24-Bit, 96kHz, 6-Channel DAC	48-LQFP	13.84	11.64	10.70
PCM1602KY	PCM1602KY-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	11.68	9.83	9.03
PCM1602Y	PCM1602Y-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	12.33	10.11	9.13
PCM1604Y	PCM1604Y-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	12.80	10.77	9.90
PCM1606E	296-13111-5-ND	24-Bit, 6-Channel, Enhanced Multilevel Delta-Sigma DAC	20-SSOP	6.72	5.40	4.92
PCM1608KY	PCM1608KY-ND	24-Bit, 192kHz, 8-Channel DAC	48-LQFP	12.32	10.36	9.52
PCM1608Y	PCM1608Y-ND	24-Bit, 192kHz, 8-Channel DAC	48-LQFP	11.33	9.53	8.76
PCM1680DBQ	296-18004-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	28-QSOP	5.04	4.05	3.69
PCM1681PWP	296-23129-5-ND	24-Bit, 192kHz Sampling, Multilevel Delta-Sigma, 8-Ch. Audio DAC	28-HTSSOP	5.60	4.50	4.10
PCM1681TPWPQ1	296-23526-5-ND	24-Bit, 192kHz Sampling, Multilevel Delta-Sigma, 8-Ch. Audio DAC	28-HTSSOP	6.16	4.95	4.51
PCM1690DCA	296-23842-5-ND	24-Bit, 192kHz Sampling, 8-Ch. Audio DAC	48-HTSSOP	7.88	6.46	5.83
PCM1691DCA	296-23897-5-ND	24-Bit, 192kHz Sampling, 8-Ch. Audio DAC	48-HTSSOP	7.50	6.15	5.55
PCM1702P	PCM1702P-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	38.60	32.81	30.40
PCM1702P-J	PCM1702P-J-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	38.60	32.81	30.40
PCM1702P-K	PCM1702P-K-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	38.60	32.81	30.40
PCM1702U	PCM1702U-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	20-SOIC	39.41	34.08	31.95

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DATA CONVERSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCM1704U/2K	296-23019-1-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC	20-SOP	38.93	34.02	31.76
PCM1716E	PCM1716E-ND	24-Bit, Stereo 96kHz Sampling DAC	28-SSOP	7.13	5.85	5.28
PCM1717E	PCM1717E-ND	Stereo Audio DAC	20-SSOP	10.13	8.31	7.50
PCM1718E	PCM1718E-ND	Stereo Audio DAC, -90dB THD	20-SSOP	11.11	9.35	8.59
PCM1719E	PCM1719E-ND	Stereo Audio DAC, -88dB THD	28-SSOP	14.67	12.34	11.34
PCM1720E	PCM1720E-ND	Stereo Audio DAC, MPEG2/AC-3 Compatible	20-SSOP	7.38	6.05	5.46
PCM1723E	PCM1723E-ND	Stereo DAC w/Programmable PLL	24-SSOP	7.00	5.74	5.18
PCM1725U	PCM1725U-ND	16-Bit, Stereo 96kHz Sampling DAC	14-SOIC	4.34	3.49	3.18
PCM1727E	PCM1727E-ND	Stereo DAC with Prog. Dual PLL	24-SSOP	9.75	8.00	7.22
PCM1728E	PCM1728E-ND	24-Bit, 96kHz Stereo Audio DAC	28-SSOP	11.75	9.64	8.70
PCM1730E	PCM1730E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	16.50	13.88	12.75
PCM1733U	PCM1733U-ND	18-Bit, Low Cost Stereo DAC	14-SOIC	5.60	4.50	4.10
PCM1737E	PCM1737E-ND	192kHz Stereo Audio DAC	28-SSOP	12.10	10.18	9.35
PCM1738E	PCM1738E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	13.86	11.66	10.71
PCM1739E	PCM1739E-ND	192kHz Stereo Audio DAC	28-SSOP	11.00	9.02	8.14
PCM1740E	PCM1740E-ND	PLL DAC with VCXO	24-SSOP	9.38	7.69	6.94
PCM1741E	PCM1741E-ND	24-Bit, 96kHz Audio DAC	16-QSOP	6.44	5.18	4.72
PCM1742E	PCM1742E-ND	24-Bit, 192kHz Audio DAC	16-QSOP	5.60	4.50	4.10
PCM1742KE	PCM1742KE-ND	24-Bit, 192kHz Audio DAC	16-QSOP	6.02	4.84	4.41
PCM1742KE/2K	296-26300-1-ND	24-Bit, 192kHz Audio DAC* ***NEW!***	16-QSOP	5.40	4.41	3.96
PCM1742KE/2K	296-26300-2-ND	24-Bit, 192kHz Audio DAC* ***NEW!***	16-QSOP	4788.00/2,000		
PCM1744U	PCM1744U-ND	24-Bit, Low Cost Stereo DAC	14-SOIC	5.60	4.50	4.10
PCM1748E	PCM1748E-ND	24-Bit, Stereo Audio DAC	16-QSOP	3.92	3.15	2.87
PCM1748E/2K	PCM1748ETR-ND	24-Bit, Stereo Audio DAC	16-QSOP	3192.00/2,000		
PCM1748KE	PCM1748KE-ND	24-Bit, Stereo Audio DAC	16-QSOP	4.34	3.49	3.18
PCM1748KE/2K	PCM1748KETR-ND	24-Bit, Stereo Audio DAC	16-QSOP	3458.00/2,000		
PCM1753DBQ	296-16651-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	3.50	2.82	2.57
PCM1753DBQR	296-26301-1-ND	24-Bit, 192kHz Audio DAC* ***NEW!***	16-QSOP	3.15	2.58	2.31
PCM1753DBQR	296-26301-2-ND	24-Bit, 192kHz Audio DAC* ***NEW!***	16-QSOP	2794.00/2,000		
PCM1754DBQ	296-16652-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	3.50	2.82	2.57
PCM1755DBQ	296-16653-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	3.50	2.82	2.57
PCM1770PW	296-13470-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	4.20	3.38	3.08
PCM1770RGA	296-13471-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	4.62	3.72	3.39
PCM1771PW	296-13472-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	5.32	4.28	3.90
PCM1771RGA	296-13473-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	5.74	4.62	4.21
PCM1772PW	296-13474-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	5.32	4.28	3.90
PCM1772RGA	296-13475-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	5.74	4.62	4.21
PCM1773PW	296-13476-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	4.20	3.38	3.08
PCM1773RGA	296-13477-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	4.62	3.72	3.39
PCM1780DBQ	296-17959-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	3.36	2.70	2.46
PCM1781DBQ	296-17960-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	3.78	3.04	2.77
PCM1782DBQ	296-17961-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	3.36	2.70	2.46
PCM1789PW	296-23898-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	24-TSSOP	6.44	5.18	4.72
PCM1791ADB	296-15091-5-ND	24-Bit, Audio Stereo DAC	28-SSOP	6.38	5.23	4.72
PCM1792ADB	296-26303-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC* ***NEW!***	28-SSOP	21.89	18.41	16.92
PCM1792DB	296-15313-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	23.38	19.88	18.42
PCM1793DB	296-15092-5-ND	24-Bit, Audio Stereo DAC	28-SSOP	6.38	5.23	4.72
PCM1794ADBR	296-21537-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	22.89	19.41	17.91
PCM1794ADBR	296-21537-2-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	25372.00/2,000		
PCM1794DB	296-15314-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	23.38	19.88	18.42
PCM1795DB	296-24544-5-ND	32-Bit, 192kHz Sampling, Audio Stereo DAC* ***NEW!***	28-SSOP	11.88	9.74	8.79
PCM1795DBR	296-24518-1-ND	32-Bit, 192kHz Sampling, Audio Stereo DAC* ***NEW!***	28-SSOP	10.47	8.69	7.90
PCM1795DBR	296-24518-2-ND	32-Bit, 192kHz Sampling, Audio Stereo DAC* ***NEW!***	28-SSOP	10270.00/2,000		
PCM1796DB	296-18510-5-ND	24-Bit, 192kHz, Audio Stereo DAC	28-SSOP	8.88	7.28	6.57
PCM1798DB	296-18511-5-ND	24-Bit, 192kHz, Audio Stereo DAC	28-SSOP	8.88	7.28	6.57
PCM2702	PCM2702E-ND	16-Bit, Stereo Audio DAC	28-SSOP	19.54	16.43	15.10
PCM2704DB	296-15273-5-ND	Stereo Audio USB 1.1 DAC	28-SSOP	7.75	6.36	5.74
PCM2704DBR	296-23123-1-ND	Stereo Audio USB 1.1 DAC	28-SSOP	6.76	5.61	5.10
PCM2704DBR	296-23123-2-ND	Stereo Audio USB 1.1 DAC	28-SSOP	6630.00/2,000		
PCM2705DB	296-15274-5-ND	Stereo Audio USB 1.1 DAC	28-SSOP	7.75	6.36	5.74
PCM2706PJT	296-15275-ND	Stereo Audio USB 1.1 DAC	32-TQFP	10.13	8.31	7.50
PCM2707PJT	296-15276-5-ND	Stereo Audio USB 1.1 DAC	32-TQFP	10.13	8.31	7.50
PCM4104EVM	296-18512-ND	Evaluation Module for PCM4104	—	203.00	—	—
TLV320DAC23GQE	296-12027-5-ND	8kHz to 96kHz Stereo Audio DAC	80-BGA	6.38	5.23	4.72
TLV320DAC23PW	296-11658-5-ND	8kHz to 96kHz Stereo Audio DAC	28-TSSOP	6.72	5.40	4.92
TLV320DAC26IRHB	296-17402-ND	Low Power Stereo Audio DAC	32-VQFN	7.38	6.05	5.46
TLV320DAC3101IRHBR	296-25780-1-ND	Low Power Stereo/Audio DAC* ***NEW!***	32-QFN	5.25	4.29	3.85
TLV320DAC3101IRHBR	296-25780-2-ND	Low Power Stereo/Audio DAC* ***NEW!***	32-QFN	6984.00/3,000		
TLV320DAC3120IRHBR	296-25489-1-ND	24-Bit, LP Mono Audio DAC* ***NEW!***	32-QFN	5.25	4.29	3.85
TLV320DAC3120IRHBR	296-25489-2-ND	24-Bit, LP Mono Audio DAC* ***NEW!***	32-QFN	6984.00/3,000		
TLV320DAC3120IRHBT	296-25590-1-ND	24-Bit, LP Mono Audio DAC* ***NEW!***	32-QFN	6.15	5.03	4.51
TLV320DAC3120IRHBT	296-25590-2-ND	24-Bit, LP Mono Audio DAC* ***NEW!***	32-QFN	948.25/250		
Voltage-to-Current Converter						
XTR110AG	296-13640-5-ND	Precision Voltage-to-Current Converter/Transmitter	16-Dip	66.76	59.68	56.65
XTR111AIDRCT	296-21361-1-ND	Precision Voltage-to-Current Converter/Transmitter	10-SON	3.90	3.19	2.86
XTR111AIDRCT	296-21361-2-ND	Precision Voltage-to-Current Converter/Transmitter	10-SON	601.25/250		

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DATA CONVERSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
Voltage-to-Frequency Converters						
VFC32KP	VFC32KP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	12.00	9.84	8.88
VFC32KU	VFC32KU-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-SOIC	12.76	10.73	9.86
VFC110AP	VFC110AP-ND	High Frequency Voltage-to-Frequency Converter	14-Dip	25.30	21.51	19.93
VFC320BP	296-12616-5-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	26.40	22.44	20.79
VFC320CP	VFC320CP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	29.00	24.65	22.84

TEXAS INSTRUMENTS Digi-Reel® DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
4-20mA Transmitters/Receivers						
RCV420JP	RCV420JP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	8.88	7.28	6.57
RCV420KP	RCV420KP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	13.31	11.20	10.29
XTR101AP	XTR101AP-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	14-Dip	19.14	16.10	14.79
XTR101AU	XTR101AU-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	16-SOIC	20.90	17.77	16.46
XTR105P	XTR105P-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	14.19	11.94	10.97
XTR105PA	XTR105PA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	11.50	9.43	8.51
XTR105U	XTR105U-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	14.19	11.94	10.97
XTR105UA	XTR105UA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	12.21	10.27	9.44
XTR106P	XTR106P-ND	4-20mA Current Transmitter	14-Dip	12.32	10.36	9.52
XTR106PA	XTR106PA-ND	4-20mA Current Transmitter	14-Dip	10.00	8.20	7.40
XTR106U	XTR106U-ND	4-20mA Current Transmitter	14-SOIC	14.08	11.84	10.88
XTR106UA	XTR106UA-ND	4-20mA Current Transmitter	14-SOIC	12.00	9.84	8.88
XTR108EA	296-27174-5-ND	4-20mA 2-Wire Transmitter* ***NEW!***	24-QSOP	10.13	8.31	7.50
XTR108EVM	296-21214-ND	Evaluation Module for XTR108	—	203.00	—	—
XTR110KP	XTR110KP-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-Dip	15.62	13.14	12.07
XTR110KU	XTR110KU-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-SOIC	18.70	15.73	14.45
XTR112U	XTR112U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	12.32	10.36	9.52
XTR112UA	XTR112UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	10.00	8.20	7.40
XTR114U	XTR114U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	12.32	10.36	9.52
XTR114UA	XTR114UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	10.00	8.20	7.40
XTR115U	XTR115U-ND	4-20mA Current Loop Transmitter	8-SOIC	4.90	3.94	3.59
XTR115UA	XTR115UA-ND	4-20mA Current Loop Transmitter	8-SOIC	4.20	3.38	3.08
XTR116U	XTR116U-ND	4-20mA Current Loop Transmitter	8-SOIC	4.20	3.38	3.08
XTR116UA	XTR116UA-ND	4-20mA Current Loop Transmitter	8-SOIC	3.50	2.82	2.57
XTR300EVM	296-19618-ND	Evaluation Module for XTR300	—	50.00	—	—
ADSL Drivers						
THS6002CDWP	296-1765-5-ND	Dual Differential Line Driver/Receiver	20-SOIC	17.38	14.62	13.43
THS6002EVM	296-10059-ND	Evaluation Module for THS6002	—	50.00	—	—
THS6002IDWP	296-1766-5-ND	Dual Diff. Line Driver/Receiver	20-HSOIC	17.38	14.62	13.43
THS6007IPWP	296-10060-5-ND	Dual Diff. Line Driver LP Receiver	28-HTSSOP	17.93	15.08	13.86
THS6012CDWP	296-2372-5-ND	Dual Differential ADSL Driver	20-SOIC	11.13	9.13	8.24
THS6012EVM	296-10061-ND	Evaluation Module for THS6012	—	50.00	—	—
THS6012IDWP	296-1767-5-ND	Dual Differential Line Driver	20-HSOIC	11.38	9.33	8.42
THS6022CPWP	296-1768-5-ND	Dual Differential Line Driver	14-HTSSOP	7.85	6.44	5.81
THS6022EVM	296-10063-ND	Evaluation Module for THS6022	—	50.00	—	—
THS6022IPWP	296-1769-5-ND	Dual Differential Line Driver	14-HTSSOP	8.08	6.63	5.98
THS6032CDWP	296-2373-5-ND	Low Power ADSL Line Driver	20-SOIC	14.85	12.49	11.48
THS6032EVM	296-10064-ND	Evaluation Module for THS6032	—	50.00	—	—
THS6032IDWP	296-10065-5-ND	Low Power ADSL Line Driver	20-SOIC	14.85	12.49	11.48
THS6032IVFP	296-12689-ND	Low Power ADSL Line Driver	32-HLQFP	14.19	11.94	10.97
THS6042EVM	296-20564-ND	Evaluation Module for THS6042	—	50.00	—	—
THS6042ID	296-12315-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	10.25	8.41	7.59
THS6042IDDA	296-12667-5-ND	High Speed ADSL CPE Line Driver	8-HSOIC	10.25	8.41	7.59
THS6043EVM	296-20565-ND	Evaluation Module for THS6043	—	50.00	—	—
THS6043ID	296-12316-5-ND	High Speed CPE Line Driver with SD	14-SOIC	10.38	8.51	7.68
THS6043IPWP	296-12317-5-ND	HS CPE Line Driver with SD	14-HTSSOP	10.88	8.92	8.05
THS6052EVM	296-20566-ND	Evaluation Module for THS6052	—	50.00	—	—
THS6052ID	296-11984-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	9.75	8.00	7.22
THS6052IDDA	296-12668-5-ND	Dual HS ADSL CPE Line Driver	8-HSOIC	9.75	8.00	7.22
THS6052IDR	296-11984-1-ND	Dual HS ADSL Line Driver	8-SOIC	8.56	7.11	6.46
THS6052IDR	296-11984-2-ND	Dual HS ADSL Line Driver	8-SOIC	10497.50/2,500		
THS6053EVM	296-20567-ND	Evaluation Module for THS6053	—	50.00	—	—
THS6053ID	296-12318-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	9.75	8.00	7.22
THS6053IPWP	296-11985-5-ND	Dual HS ADSL Line Driver with SD	14-HTSSOP	9.75	8.00	7.22
THS6053IPWPR	296-11985-1-ND	Dual HS ADSL Line Driver with SD	14-HTSSOP	8.56	7.11	6.46
THS6053IPWPR	296-11985-2-ND	Dual HS ADSL Line Driver with SD	14-HTSSOP	8398.00/2,000		
THS6062CD	296-2374-5-ND	Dual ADSL Differential Receiver	8-SOIC	10.00	8.20	7.40
THS6062EVM	296-10069-ND	Evaluation Module for THS6062	—	50.00	—	—
THS6072CD	296-2375-5-ND	Low Power ADSL Differential Receiver	8-SOIC	6.65	5.46	4.93
THS6072EVM	296-10074-ND	Evaluation Module for THS6072	—	101.00	—	—
THS6092EVM	296-20568-ND	Evaluation Module for THS6092	—	50.00	—	—
THS6092ID	296-12319-5-ND	Dual HS ADSL SPE Line Driver	8-SOIC	6.78	5.45	4.97
THS6093EVM	296-20569-ND	Evaluation Module for THS6093	—	50.00	—	—
THS6093ID	296-11986-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	6.78	5.45	4.97
THS6093IPWP	296-12320-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-HTSSOP	6.78	5.45	4.97
THS6132VFP	296-13744-5-ND	High Eff. Class-G ADSL Line Driver	32-HLQFP	8.13	6.67	6.02
THS6132VFPEVM	296-20570-ND	Evaluation Module for THS6132VFP	—	101.00	—	—
THS6182D	296-14977-5-ND	LP Dissipation ADSL Line Driver	16-SOIC	11.13	9.13	8.24
THS6182DW	296-14978-5-ND	LP Dissipation ADSL Line Driver	20-SOIC	11.13	9.13	8.24
THS6182DWEVM	296-18856-ND	Evaluation Module for THS6182DW	—	101.00	—	—

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TEXAS INSTRUMENTS DigiReel® (Cont.)

DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
THS6182RHFR	296-15338-1-ND	LP Dissipation ADSL Line Driver	24-QFN	9.81	8.14	7.40
THS6182RHFR	296-15338-2-ND	LP Dissipation ADSL Line Driver	24-QFN	14430.00/3,000		
THS6182RHFEVM	296-18857-ND	Evaluation Module for THS6182RHF	—	101.00	—	—
THS6184PWP	296-21670-5-ND	Dual Port, Low Power Differential xDSL Line Driver Amp	20-HTSSOP	10.70	8.78	7.92
Ethernet						
DLKPC192SGNT	296-13858-ND	10Gbps Ethernet Lan Physical Coding Sublayer (PCS)	289-PBGA	156.21	143.29	140.05
TLK100PHP	296-25126-ND	Single Port Ethernet Transcvr* ***NEW!***	48-HTQFP	6.75	5.54	5.00
TLK1002ARGET	296-19420-1-ND	Dual Signal Conditioning Transceiver	24-QFN	15.87	13.46	12.42
TLK1002ARGET	296-19420-2-ND	Dual Signal Conditioning Transceiver	24-QFN	2673.75/250		
TLK1101ERGPT	296-22844-1-ND	11.3Gbps Cable/PC Board Equalizer	20-VQFN	21.05	17.85	16.47
TLK1102ERGET	296-24221-1-ND	11.3Gbps Cable/PC Board Equalizer* ***NEW!***	24-VQFN	24.60	22.14	20.30
TLK1102ERGET	296-24221-2-ND	11.3Gbps Cable/PC Board Equalizer* ***NEW!***	24-VQFN	4458.75/250		
TLK1201AIRCP	296-18299-ND	Gigabit Ethernet Transceiver	64-HVQFP	12.54	10.55	9.69
TLK1201ARCP	296-16797-ND	Gigabit Ethernet Transceiver	64-HVQFP	12.13	9.95	8.98
TLK1201IRCP	296-13362-ND	Gigabit Ethernet Transceiver	64-HVQFP	12.23	10.03	9.05
TLK1211RCP	296-20780-ND	Ethernet Transceiver	64-HVQFP	28.00	23.80	22.05
TLK1501IRCP	296-10484-ND	0.6-1.5Gbps Transceiver	64-HVQFP	21.56	18.13	16.66
TLK1521IPAP	296-15862-ND	0.5-1.3Gbps Serializer/Deserializer	64-HTQFP	21.00	17.85	16.54
TLK2201AJRQZE	296-19668-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	10.63	8.72	7.87
TLK2201ARCP	296-15238-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	12.13	9.95	8.98
TLK2201BIRCP	296-18300-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	11.88	9.99	9.18
TLK2201BRCP	296-16728-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	11.63	9.54	8.61
TLK2201IRCP	296-10485-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	12.54	10.55	9.69
TLK2201JRGQE	296-10486-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	10.20	8.37	7.55
TLK2201RCP	296-10487-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	12.23	10.03	9.05
TLK2208AGPV	296-15328-5-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	53.55	47.25	44.89
TLK2208AZPV	296-21252-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	53.55	47.25	44.89
TLK2208BGPV	296-15724-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	53.55	47.25	44.89
TLK2208BZPV	296-21253-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	53.55	47.25	44.89
TLK2218GPV	296-21605-ND	8-Port Gigabit Ethernet Transceiver	289-BGA	65.45	57.75	54.87
TLK2218ZPV	296-21606-ND	8-Port Gigabit Ethernet Transceiver	289-BGA	65.45	57.75	54.87
TLK2226GEA	296-19514-ND	6-Port Gigabit Ethernet Transceiver	196-BGA	39.30	33.41	30.95
TLK2226ZEA	296-21672-ND	6-Port Gigabit Ethernet Transceiver	196-BGA	39.30	33.41	30.95
TLK2501IRCP	296-10488-ND	1.6-2.5Gbps Transceiver	64-HVQFP	28.20	23.97	22.21
TLK2521IPAP	296-15315-ND	1.0-2.5Gbps Transceiver	64-HTQFP	25.20	21.42	19.85
TLK2541PFP	296-23374-ND	1.0-2.6Gbps Transceiver	80-HTQFP	23.00	19.55	18.12
TLK2701IRCP	296-10489-ND	1.6-2.7Gbps Transceiver	64-HVQFP	28.20	23.97	22.21
TLK2711AIRCP	296-23681-ND	1.6-2.7Gbps Transceiver	64-HVQFP	24.00	20.40	18.90
TLK2711AJRZQE	296-23682-ND	1.6-2.7Gbps Transceiver	80-BGA	21.00	17.85	16.54
TLK2711IRCP	296-12215-ND	1.6-2.7Gbps Transceiver	64-HVQFP	27.20	23.12	21.42
TLK2711JRGQE	296-12216-ND	1.6-2.7Gbps Transceiver	80-BGA	25.20	21.42	19.85
TLK2711JRZQE	296-19633-ND	1.6-2.7Gbps Transceiver	80-BGA	21.00	17.85	16.54
TLK3101IRCP	296-10490-ND	2.5-3.125Gbps Transceiver	64-HVQFP	33.70	28.65	26.54
TLK3104SAGNT	296-12040-5-ND	10Gbps Ethernet Backplane Xcvr.	289-BGA	129.17	116.47	112.66
TLK3104SCGNT	296-13704-ND	3.125Gbps Quad Serial Backplane Transceiver	20-HSOIC	223.39	204.90	200.28
TLK3114SAGNT	296-12747-ND	10Gbps XAUI Transceiver	289-BGA	132.16	119.16	115.26
TLK3114SCGNT	296-15738-ND	10Gbps XAUI Transceiver	289-BGA	92.40	82.30	77.97
TLK3114SCGPV	296-21552-ND	10Gbps XAUI Transceiver	289-PBGA	92.40	82.30	77.97
TLK3114SCZPV	296-21553-ND	10Gbps XAUI Transceiver	289-PBGA	92.40	82.30	77.97
TLK3131ZWQ	296-23984-ND	1-Ch. Multi-Rate Transceiver	144-BGA	32.00	27.20	25.20
TLK3132ZEN	296-23985-ND	2-Ch. Multi-Rate Transceiver	196-BGA	37.00	32.00	30.00
TLK3134ZEL	296-23405-ND	4-Ch. Multi-Rate Transceiver	289-BGA	59.50	52.50	49.88
TLK3138ZDU	296-21607-ND	Dual XAUI Transceiver	484-PBGA	78.95	70.58	66.99
TLK4015IGPV	296-14198-5-ND	0.6-1.5Gbps Quad Transceiver	289-BGA	54.39	47.04	44.10
TLK4015IZPV	296-21254-ND	0.6-1.5Gbps Quad Transceiver	289-BGA	54.39	47.04	44.10
TLK4120IGPV	296-16729-ND	0.5-1.3Gbps Quad Transceiver	289-BGA	44.40	38.40	36.00
TLK4120IZPV	296-21255-ND	0.5-1.3Gbps Quad Transceiver	289-BGA	44.40	38.40	36.00
TLK4201EARGTT	296-19785-1-ND	4.25Gbps Cable/PC Board Equalizer	16-VQFN	13.57	11.51	10.62
TLK4250IGPV	296-17047-ND	1.0 to 2.5Gbps Quad Transceiver	289-BGA	54.40	48.00	45.60
TLK4250IZPV	296-20656-ND	1.0 to 2.5Gbps Quad Transceiver	289-PBGA	54.40	48.00	45.60
TLK10021GWQ	296-18660-ND	XAUI to XFI Transceiver	144-BGA	76.07	68.00	64.54
TLK10021ZWQ	296-18661-ND	XAUI to XFI Transceiver	144-BGA	76.07	68.00	64.54
TNETE2201BPHD	296-10772-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	11.40	9.35	8.44
TNETE2201BPJD	296-10773-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	11.40	9.35	8.44
TNETE2201BPJW	296-14388-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	11.40	9.35	8.44
TPS23841PAPR	296-21345-1-ND	Wide Voltage Range, Quad-Port Ethernet Power Equipment Manager	64-HTQFP	17.25	14.63	13.50
TPS23841PJD	296-21346-ND	Wide Voltage Range, Quad-Port Ethernet Power Equipment Manager	64-HTQFP	19.80	16.65	15.30
HVS						
SN65HVS880PWP	296-23349-5-ND	8-Channel Digital-Input Serializer	28-HTSSOP	6.44	5.18	4.72
SN65HVS881PWP	296-24271-5-ND	8-Ch. Digital-Input Serializer* ***NEW!***	28-HTSSOP	6.72	5.40	4.92
SN65HVS882EVM	296-23528-ND	Evaluation Module for SN65HVS882	—	50.00	—	—
SN65HVS882PWPR	296-23432-1-ND	8-Ch. Industrial Digital-Input Serializer	28-HTSSOP	6.00	4.90	4.40
SN65HVS882PWPR	296-23432-2-ND	8-Ch. Industrial Digital-Input Serializer	28-HTSSOP	5320.00/2,000		
SN65HVS885PWP	296-24167-5-ND	8-Ch. Digital-Input Serializer*	28-HTSSOP	6.16	4.95	4.51
LCD						
TFP101APZP	296-9987-ND	86MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	9.38	7.69	6.94
TFP101PZP	296-9988-ND	86MHz PanelBus™ DVI Receiver	100-HTQFP	9.38	7.69	6.94
TFP201APZP	296-9989-ND	112MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	11.00	9.02	8.14
TFP201PZP	296-9990-ND	112MHz PanelBus™ DVI Receiver	100-HTQFP	11.00	9.02	8.14
TFP401AMPZPEP	296-24308-ND	165MHz PanelBus™ DVI Rcvr.* ***NEW!***	100-HTQFP	24.00	20.40	18.90
TFP401APZP	296-9991-ND	165MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	10.00	8.20	7.40
TFP401PZP	296-9992-ND	165MHz PanelBus™ DVI Receiver	100-HTQFP	10.00	8.20	7.40
TFP403PZP	296-9993-ND	165MHz PanelBus™ DVI Receiver	100-HTQFP	11.99	10.09	9.27
TFP410PAP	296-12666-ND	PanelBus™ Digital Transmitter	64-HTQFP	7.50	6.15	5.55

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DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TFP410MPAPREP	296-21249-1-ND	PanelBus™ Digital Transmitter	64-HTQFP	11.73	9.95	9.18
TFP410MPAPREP	296-21249-2-ND	PanelBus™ Digital Transmitter	64-HTQFP	6783.00/1,000		
TSS721AD	296-27127-5-ND	Meter-Bus Transceiver* ***NEW!***	16-SOIC	3.84	3.09	2.81
TSS721ADR	296-27128-1-ND	Meter-Bus Transceiver* ***NEW!***	16-SOIC	4.11	3.36	3.02
TSS721ADR	296-27128-2-ND	Meter-Bus Transceiver* ***NEW!***	16-SOIC	4555.00/2,500		
ELT						
SN65ELT20D	296-24065-5-ND	5V TTL-to-Diff. PECL Translator	8-SOIC	3.42	2.75	2.51
SN65ELT20DGK	296-24084-5-ND	5V TTL-to-Diff. PECL Translator	8-MSOP	3.42	2.75	2.51
SN65ELT21D	296-24661-5-ND	5V Diff. PECL-to-TTL Translator* ***NEW!***	8-SOIC	3.92	3.15	2.87
SN65ELT21DGK	296-24936-5-ND	5V Diff. PECL-to-TTL Translator* ***NEW!***	8-MSOP	3.92	3.15	2.87
SN65ELT22D	296-24085-5-ND	5V Dual TTL-to-Diff. PECL Translator	8-SOIC	3.42	2.75	2.51
SN65ELT22DGK	296-24066-5-ND	5V Dual TTL-to-Diff. PECL Translator	8-MSOP	3.42	2.75	2.51
SN65ELT23D	296-24820-5-ND	5V Dual Diff. PECL-to-TTL Translator* ***NEW!***	8-SOIC	3.92	3.15	2.87
SN65ELT23DGK	296-24937-5-ND	5V Dual Diff. PECL-to-TTL Translator* ***NEW!***	8-MSOP	3.92	3.15	2.87
EPT						
SN65EPT21D	296-25479-5-ND	3.3V Diff. PECL/LVDS to TTL Translator* ***NEW!***	8-SOIC	4.23	3.40	3.10
SN65EPT21DR	296-25482-1-ND	3.3V Diff. PECL/LVDS to TTL Translator* ***NEW!***	8-SOIC	3.78	3.09	2.78
SN65EPT21DR	296-25482-2-ND	3.3V Diff. PECL/LVDS to TTL Translator* ***NEW!***	8-SOIC	4190.00/2,500		
SN65EPT22D	296-24067-5-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Buffer	8-SOIC	4.23	3.40	3.10
SN65EPT22DGK	296-24086-5-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Buffer	8-MSOP	4.23	3.40	3.10
SN65EPT23D	296-25480-5-ND	3.3V ECL Diff. LVPECL/LVDS to LVTTL/ LVCMOS Translator* ***NEW!***	8-SOIC	4.23	3.40	3.10
SN65EPT23DR	296-25483-1-ND	3.3V ECL Diff. LVPECL/LVDS to LVTTL/ LVCMOS Translator* ***NEW!***	8-SOIC	3.78	3.09	2.78
SN65EPT23DR	296-25483-2-ND	3.3V ECL Diff. LVPECL/LVDS to LVTTL/ LVCMOS Translator* ***NEW!***	8-SOIC	4190.00/2,500		
LV						
SN65LV1021DB	296-12856-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	11.09	9.33	8.57
SN65LV1023ADB	296-15176-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	9.78	8.02	7.24
SN65LV1023ARHBR	296-19317-1-ND	10MHz-66MHz, 10:1 LVDS Serializer	32-VQFN	8.69	7.22	6.56
SN65LV1023ARHBR	296-19317-2-ND	10MHz-66MHz, 10:1 LVDS Serializer	32-VQFN	12792.00/3,000		
SN65LV1023DB	296-12857-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	19.36	16.28	14.96
SN65LV1212DB	296-15383-5-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	12.25	10.31	9.47
SN65LV1224BDB	296-17327-5-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	9.98	8.18	7.39
SN65LV1224BDBR	296-26357-1-ND	10MHz-66MHz, 10:1 LVDS Serializer/ Deserializer* ***NEW!***	28-SSOP	8.90	7.40	6.72
SN65LV1224BDBR	296-26357-2-ND	10MHz-66MHz, 10:1 LVDS Serializer/ Deserializer* ***NEW!***	28-SSOP	8736.00/2,000		
SN65LV1224BRHBT	296-19318-1-ND	10MHz-66MHz, 10:1 LVDS Deserializer	32-VQFN	10.12	8.41	7.64
LVCP						
SN65LVCP22D	296-15190-5-ND	LVDS Crosspoint Switch	16-SOIC	6.83	5.60	5.06
SN65LVCP22PW	296-15191-5-ND	LVDS Crosspoint Switch	16-TSSOP	6.83	5.60	5.06
SN65LVCP22-23EVM	296-18522-ND	Evaluation Module for SN65LVCP22-23	—	50.00	—	—
SN65LVCP23D	296-15192-5-ND	LVPECL Crosspoint Switch	16-SOIC	13.07	10.99	10.10
SN65LVCP23PW	296-15193-5-ND	LVPECL Crosspoint Switch	16-TSSOP	13.07	10.99	10.10
SN65LVCP40RGZ	296-17506-ND	DC to 4Gbps Dual 1:2 Mux/Repeater/ Equalizer	48-VQFN	22.00	18.70	17.33
SN65LVCP202RGER	296-24338-1-ND	Gigabit 2x2 Crosspoint Switch* ***NEW!***	24-VQFN	13.80	11.70	10.80
SN65LVCP202RGER	296-24338-2-ND	Gigabit 2x2 Crosspoint Switch* ***NEW!***	24-VQFN	22950.00/3,000		
SN65LVCP204RGZR	296-24339-1-ND	Gigabit 4x4 Crosspoint Switch* ***NEW!***	48-QFN	21.85	18.53	17.10
SN65LVCP204RGZR	296-24339-2-ND	Gigabit 4x4 Crosspoint Switch* ***NEW!***	48-QFN	30281.25/2,500		
SN65LVCP402RGET	296-22242-1-ND	Gigabit 2x2 Crosspoint Switch	24-QFN	15.87	13.46	12.42
SN65LVCP404RGZR	296-21669-1-ND	Gigabit 4x4 Crosspoint Switch	48-VQFN	22.66	19.21	17.73
SN65LVCP404RGZR	296-21669-2-ND	Gigabit 4x4 Crosspoint Switch	48-VQFN	31396.88/2,500		
SN65LVCP408PAPR	296-25173-1-ND	Gigabit 8x8 Crosspoint Switch* ***NEW!***	64-HTQFP	31.80	28.62	26.24
SN65LVCP408PAPR	296-25173-2-ND	Gigabit 8x8 Crosspoint Switch* ***NEW!***	64-HTQFP	20670.00/1,000		
SN75LVCP412RTJT	296-26666-1-ND	2-Ch., 3Gbps SATA Redriver* ***NEW!***	20-QFN	4.95	4.05	3.63
SN75LVCP412RTJT	296-26666-2-ND	2-Ch., 3Gbps SATA Redriver* ***NEW!***	20-QFN	763.25/250		
SN65LVCP418PAPR	296-24603-1-ND	8-Ch., 4.25Gbps Repeater* ***NEW!***	64-HTQFP	21.85	18.53	17.10
SN65LVCP418PAPR	296-24603-2-ND	8-Ch., 4.25Gbps Repeater* ***NEW!***	64-HTQFP	12635.00/1,000		
SN65LVCP418PAPT	296-24652-1-ND	8-Ch., 4.25Gbps Repeater* ***NEW!***	64-HTQFP	22.00	19.80	18.15
SN65LVCP418PAPT	296-24652-2-ND	8-Ch., 4.25Gbps Repeater* ***NEW!***	64-HTQFP	3987.50/250		
SN75LVCP422DBR	296-24225-1-ND	2-Ch., 3Gbps SATA Redriver* ***NEW!***	20-SSOP	4.20	3.43	3.08
SN75LVCP422DBR	296-24225-2-ND	2-Ch., 3Gbps SATA Redriver* ***NEW!***	20-SSOP	3724.00/2,000		
TLK6201EARGTT	296-20709-1-ND	6.25Gbps Cable/PC Board Equalizer	16-VQFN	12.99	10.78	9.80
TLK6201EARGTT	296-20709-2-ND	6.25Gbps Cable/PC Board Equalizer	16-VQFN	2082.50/250		
LVDM						
SN65LVDM050D	296-1416-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	6.69	5.38	4.90
SN65LVDM050PW	296-12020-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	6.69	5.38	4.90
SN65LVDM050QDQ1	296-15385-5-ND	HS Differential Line Driver/Receiver	16-SOIC	6.69	5.38	4.90
SN65LVDM050QDRQ1	296-15386-1-ND	HS Differential Line Driver/Receiver	16-SOIC	7.17	5.86	5.26
SN65LVDM051D	296-1417-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	6.69	5.38	4.90
SN65LVDM051PW	296-12021-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	6.69	5.38	4.90
SN65LVDM051QDQ1	296-15387-5-ND	HS Differential Line Driver/Receiver	16-SOIC	6.69	5.38	4.90
SN65LVDM22D	296-1421-5-ND	Dual Mux LVDS Repeater	16-SOIC	9.35	7.67	6.92
SN65LVDM22PW	296-12023-5-ND	Dual Mux LVDS Repeater	16-TSSOP	9.35	7.67	6.92
SN65LVDM31D	296-6905-5-ND	HS Differential Line Driver	16-SOIC	5.99	4.82	4.39
SN65LVDM31-32BEVM	296-9736-ND	Evaluation Module for SN65LVDM31 and LVDS32B	—	50.00	—	—
SN65LVDM176D	296-1418-5-ND	HS Differential Line Transceiver	8-SOIC	5.18	4.17	3.80
SN65LVDM176DGK	296-6903-5-ND	HS Differential Multipoint Transceiver	8-MSOP	5.18	4.17	3.80
SN65LVDM179D	296-1419-5-ND	HS Differential Line Driver/Receiver	8-SOIC	6.58	5.29	4.82
SN65LVDM179DGK	296-6904-5-ND	HS Differential Line Driver/Receiver	8-SOP	6.58	5.29	4.82
SN65LVDM180D	296-1420-5-ND	HS Differential Line Driver/Receiver	14-SOIC	5.18	4.17	3.80
SN65LVDM180PW	296-12022-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	5.18	4.17	3.80
SN65LVDM320DGG	296-13125-5-ND	8-Bit, HS Diff. Registered Transceiver	64-TSSOP	23.20	19.72	18.27
SN65LVDM1676DGG	296-9734-5-ND	16-Channel Transceiver	64-TSSOP	18.48	15.54	14.28
SN65LVDM1677DGG	296-9735-5-ND	16-Channel Transceiver	64-TSSOP	19.23	16.17	14.86
SN75LVDM976DGG	296-1760-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	26.00	22.10	20.48
SN75LVDM976DL	296-6934-5-ND	9-Channel Dual-Mode Transceiver	56-SSOP	26.00	22.10	20.48
SN75LVDM977DGG	296-2365-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	26.00	22.10	20.48
SN75LVDM977DL	296-6935-5-ND	9-Channel Dual-Mode Transceiver	56-SSOP	26.00	22.10	20.48

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
		LVDS				
SN65CML100D	296-13870-5-ND	1.5-Gbps LVDS Translator/Repeater	8-SOIC	5.85	4.71	4.29
SN65CML100DGK	296-13871-5-ND	1.5-Gbps LVDS Translator/Repeater	8-MSOP	5.85	4.71	4.29
SN65CML100EVM	296-20537-ND	Eval. Module for SN65CML100DGK	—	101.00	—	—
SN65LVDS047D	296-6909-5-ND	LVDS Quad Differential Line Driver	16-SOIC	3.64	2.93	2.67
SN65LVDS047PW	296-6910-5-ND	LVDS Quad Differential Line Driver	16-TSSOP	3.64	2.93	2.67
SN65LVDS048AD	296-6911-5-ND	Quad High Speed Diff. Line Receiver	16-SOIC	3.64	2.93	2.67
SN65LVDS048APW	296-6912-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	3.64	2.93	2.67
SN65LVDS049PW	296-15341-5-ND	Dual LVDS Diff. Driver/Receiver	16-TSSOP	2.85	2.30	2.07
SN65LVDS049PWR	296-26358-1-ND	Dual LVDS Diff. Driver/ Receiver* ***NEW!***	16-TSSOP	2.80	2.16	1.96
SN65LVDS049PWR	296-26358-2-ND	Dual LVDS Diff. Driver/ Receiver* ***NEW!***	16-TSSOP	2160.00/2,000		
SN65LVDS050D	296-1422-5-ND	HS Differential Line Driver/Receiver	16-SOIC	6.83	5.49	5.01
SN65LVDS050PW	296-12051-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	6.83	5.49	5.01
SN65LVDS051D	296-1423-5-ND	HS Differential Line Driver/Receiver	16-SOIC	6.83	5.49	5.01
SN65LVDS051DRG4Q1	296-24422-1-ND	HS Diff. Line Driver/Receiver* ***NEW!***	16-SOIC	6.54	5.35	4.80
SN65LVDS051DRG4Q1	296-24422-2-ND	HS Diff. Line Driver/Receiver* ***NEW!***	16-SOIC	7247.50/2,500		
SN65LVDS051PW	296-12052-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	6.83	5.49	5.01
SN65LVDS1D	296-12138-5-ND	High Speed Differential Line Driver	8-SOIC	1.55	1.25	1.13
SN65LVDS1DBVR	296-6919-1-ND	High Speed Differential Line Driver	SOT-23-5	1.57	1.25	1.12
SN65LVDS1DBVR	296-6919-2-ND	High Speed Differential Line Driver	SOT-23-5	1740.00/3,000		
SN65LVDS2D	296-12139-5-ND	High Speed Differential Line Receiver	8-SOIC	1.55	1.25	1.13
SN65LVDS2DBVR	296-6920-1-ND	High Speed Differential Line Receiver	SOT-23-5	1.57	1.25	1.12
SN65LVDS2DBVR	296-6920-2-ND	High Speed Differential Line Receiver	SOT-23-5	1740.00/3,000		
SN65LVDS16DRFT	296-17441-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	7.69	6.38	5.80
SN65LVDS16DRFT	296-17441-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1232.50/250		
SN65LVDS16EVM	296-17857-ND	Evaluation Module for SN65LVDS16	—	50.00	—	—
SN65LVDS17DRFT	296-17442-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	7.69	6.38	5.80
SN65LVDS17DRFT	296-17442-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1232.50/250		
SN65LVDS17EVM	296-21005-ND	Evaluation Module for SN65LVDS17	—	50.00	—	—
SN65LVDS18DRFT	296-17443-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	6.90	5.64	5.06
SN65LVDS18DRFT	296-17443-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1063.75/250		
SN65LVDS18EVM	296-21006-ND	Evaluation Module for SN65LVDS18	—	50.00	—	—
SN65LVDS19DRFT	296-17444-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	6.90	5.64	5.06
SN65LVDS19DRFT	296-17444-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1063.75/250		
SN65LVDS19EVM	296-21007-ND	Evaluation Module for SN65LVDS19	—	50.00	—	—
SN65LVDS20DRFT	296-17176-1-ND	LVDS Repeater/Translator	8-SON	9.14	7.59	6.90
SN65LVDS20DRFT	296-17176-2-ND	LVDS Repeater/Translator	8-SON	1466.25/250		
SN65LVDS22D	296-1426-5-ND	Dual Mux LVDS Repeater	16-SOIC	7.55	6.20	5.59
SN65LVDS22PW	296-12024-5-ND	Dual Mux LVDS Repeater	16-TSSOP	7.55	6.20	5.59
SN65LVDS31-32BEVM	296-9740-ND	Evaluation Module for SN65LVDS31 and LVDS32B	—	50.00	—	—
SN65LVDS31-32EVM	296-9741-ND	Eval Module for SN65LVDS31, LVDS32	—	50.00	—	—
SN65LVDS31-33EVM	296-13817-ND	Eval Module for SN65LVDS31, LVDS33	—	50.00	—	—
SN65LVDS31D	296-6922-5-ND	Quad High Speed Differential Driver	16-SOIC	4.00	3.22	2.94
SN65LVDS31NS	296-2350-5-ND	Quad High Speed Differential Driver	16-SOP	4.00	3.22	2.94
SN65LVDS31PW	296-12329-5-ND	Quad High Speed Differential Driver	16-TSSOP	4.00	3.22	2.94
SN65LVDS32BDR	296-6923-1-ND	Quad High Speed Diff. Line Driver	16-SOIC	6.81	5.57	5.00
SN65LVDS32BDR	296-6923-2-ND	Quad High Speed Diff. Line Driver	16-SOIC	7547.50/2,500		
SN65LVDS32D	296-6924-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	4.00	3.22	2.94
SN65LVDS32PW	296-12330-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	4.00	3.22	2.94
SN65LVDS33D	296-9742-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	4.12	3.31	3.02
SN65LVDS33PW	296-9743-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	4.12	3.31	3.02
SN65LVDS34D	296-9744-5-ND	Dual High Speed Diff. Line Driver	8-SOIC	3.05	2.46	2.24
SN65LVDS84AQDGG	296-9747-5-ND	Flatlink™ Transmitter	48-TSSOP	5.29	4.26	3.88
SN65LVDS84AQDGGR	296-9747-1-ND	Flatlink™ Transmitter	48-TSSOP	5.67	4.64	4.16
SN65LVDS84AQDGGR	296-9747-2-ND	Flatlink™ Transmitter	48-TSSOP	5028.00/2,000		
SN65LVDS84AQDGGRQ1	296-23020-1-ND	Flatlink™ Transmitter	48-TSSOP	5.79	4.73	4.25
SN65LVDS84AQDGGRQ1	296-23020-2-ND	Flatlink™ Transmitter	48-TSSOP	5134.00/2,000		
SN65LVDS86AQDGGR	296-9748-1-ND	Flatlink™ Receiver	48-TSSOP	6.81	5.57	5.00
SN65LVDS93ADGG	296-25108-5-ND	LVDS SERDES Transmitter* ***NEW!***	56-TSSOP	11.77	9.90	9.10
SN65LVDS93AZQLR	296-25110-1-ND	LVDS SERDES Transmitter* ***NEW!***	56-BGA	12.32	10.23	9.30
SN65LVDS93AZQLR	296-25110-2-ND	LVDS SERDES Transmitter* ***NEW!***	56-BGA	6277.50/1,000		
SN65LVDS93DGG	296-1429-5-ND	LVDS SERDES Transmitter	56-TSSOP	10.83	8.88	8.02
SN65LVDS94DGG	296-1430-5-ND	LVDS SERDES Receiver	56-TSSOP	10.83	8.88	8.02
SN65LVDS95DGG	296-1431-5-ND	LVDS SERDES Transmitter	48-TSSOP	9.88	8.10	7.31
SN65LVDS96DGG	296-1434-5-ND	LVDS SERDES Receiver	48-TSSOP	9.88	8.10	7.31
SN65LVDS100D	296-13624-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	7.25	5.95	5.37
SN65LVDS100DGK	296-13625-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	7.25	5.95	5.37
SN65LVDS100EVM	296-20539-ND	Eval. Module for SN65LVDS100	—	101.00	—	—
SN65LVDS101D	296-13626-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	7.25	5.95	5.37
SN65LVDS101DGK	296-13627-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	7.25	5.95	5.37
SN65LVDS101EVM	296-20540-ND	Eval. Module for SN65LVDS101	—	101.00	—	—
SN65LVDS104D	296-2344-5-ND	1:4 LVDS Clock Buffer	16-SOIC	6.58	5.29	4.82
SN65LVDS104PW	296-6915-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	6.58	5.29	4.82
SN65LVDS104PWR	296-26359-1-ND	1:4 LVDS Clock Buffer* ***NEW!***	16-TSSOP	5.91	4.83	4.34
SN65LVDS104PWR	296-26359-2-ND	1:4 LVDS Clock Buffer* ***NEW!***	16-TSSOP	5240.00/2,000		
SN65LVDS105D	296-2345-5-ND	1:4 LVDS Clock Buffer	16-SOIC	6.58	5.29	4.82
SN65LVDS105PW	296-6917-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	6.58	5.29	4.82
SN65LVDS108DBT	296-2346-5-ND	8-Port LVDS Repeater	38-TSSOP	10.83	8.88	8.02
SN65LVDS109DBT	296-2347-5-ND	Dual 1:4 LVDS Repeater	38-TSSOP	10.83	8.88	8.02
SN65LVDS116DGG	296-2348-5-ND	1:16 LVDS Repeater	64-TSSOP	14.32	12.05	11.07
SN65LVDS116DGGR	296-2348-1-ND	1:16 LVDS Repeater	64-TSSOP	12.47	10.57	9.76
SN65LVDS117DGG	296-2349-5-ND	Dual 8-Port LVDS Repeater	64-TSSOP	14.32	12.05	11.07
SN65LVDS117DGGR	296-2349-1-ND	Dual 8-Port LVDS Repeater	64-TSSOP	12.47	10.57	9.76
SN65LVDS122D	296-13650-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-SOIC	11.92	10.03	9.22
SN65LVDS122EVM	296-20541-ND	Evaluation Module for SN65LVDS122	—	50.00	—	—
SN65LVDS122PW	296-13651-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-TSSOP	11.92	10.03	9.22
SN65LVDS125ADBT	296-18524-5-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	19.47	16.38	15.05
SN65LVDS125AEVM	296-18525-ND	Evaluation Module for SN65LVDS125A	—	50.00	—	—
MUXIT-EVM	296-9620-ND	Evaluation Module for SN65LVDS150/151/152	—	101.00	—	—
SN65LVDS150PW	296-9737-5-ND	MuxIt™ PLL Freq. Multiplier	28-TSSOP	11.88	9.74	8.79
SN65LVDS151DA	296-9738-5-ND	MuxIt™ Serializer Transmitter	32-TSSOP	8.73	7.16	6.46
SN65LVDS152DA	296-9739-5-ND	MuxIt™ Receiver/Deserializer	32-TSSOP	8.73	7.16	6.46
SN65LVDS179D	296-1424-5-ND	HS Differential Line Driver/Receiver	8-SOIC	5.07	4.08	3.72
SN65LVDS179DGK	296-6918-5-ND	HS Differential Line Driver/Receiver	8-MSOP	5.07	4.08	3.72
SN65LVDS179MDGKREP	296-22243-1-ND	HS Differential Line Driver/Receiver	8-MSOP	6.45	5.27	4.73
SN65LVDS180D	296-1425-5-ND	HS Differential Line Driver/Receiver	14-SOIC	5.07	4.08	3.72
SN65LVDS180PW	296-12053-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	5.07	4.08	3.72
SN65LVDS250DBT	296-16931-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	23.40	19.89	18.43
SN65LVDS250EVM	296-16985-ND	Evaluation Module for SN65LVDS250	—	50.00	—	—
SN65LVDS301ZQE	296-19737-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	6.58	5.29	4.82
SN65LVDS302ZQE	296-19877-ND	Prog. 27-Bit Parallel-to-Serial Receiver	80-BGA	6.58	5.29	4.82
SN65LVDS303ZQE	296-20724-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	5.32	4.28	3.90
SN65LVDS304ZQER	296-20766-1-ND	Prog. 27-Bit Parallel-to-Serial Receiver	80-BGA	5.70	4.66	4.18
SN65LVDS305ZQE	296-20725-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	4.76	3.83	3.49
SN65LVDS348D	296-12735-5-ND	Quad High Speed Diff. Receiver	16-SOIC	4.59	3.69	3.37
SN65LVDS348PW	296-12648-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	4.59	3.69	3.37
SN65LVDS352PW	296-12649-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	6.83	5.49	5.01
SN65LVDS386DGG	296-2353-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12.10	10.18	9.35
SN65LVDS386DGGR	296-2353-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12.35	10.26	9.32
SN65LVDS386DGGR	296-2353-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12116.00/2,000		
SN65LVDS386EVM	296-9745-ND	Evaluation Module for SN65LVDS386	—	50.00	—	—
SN65LVDS387DGG	296-2354-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	12.10	10.18	9.35
SN65LVDS387EVM	296-9746-ND	Evaluation Module for SN65LVDS387	—	50.00	—	—
SN65LVDS388ADBT	296-6926-5-ND	Octal LVDS Receiver	38-TSSOP	6.83	5.60	5.06
SN65LVDS389DBT	296-2356-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	6.83	5.60	5.06
SN65LVDS390D	296-6927-5-ND	High Speed Diff. Line Receiver	16-SOIC	4.12	3.31	3.02
SN65LVDS390PW	296-6928-5-ND	High Speed Diff. Line Receiver	16-TSSOP	4.12	3.31	3.02
SN65LVDS391D	296-6929-5-ND	High Speed Differential Driver	16-SOIC	4.12	3.31	3.02
SN65LVDS391PW	296-6930-5-ND	High Speed Differential Driver	16-TSSOP	4.12	3.31	3.02
SN65LVDS1050PW	296-6916-5-ND	High Speed Diff. Line Receiver	16-TSSOP	6.10	4.91	4.47
SN65LVDS3486BDR	296-6925-1-ND	Quad LVDS Receiver	16-SOIC	6.18	5.05	4.54
SN65LVDS3486D	296-1427-5-ND	High Speed Differential Line Receiver	16-SOIC	4.59	3.69	3.37
SN65LVDS3487D	296-1428-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	4.59	3.69	3.37
SN65LVDS9637BD	296-26365-5-ND	HS Differential Line Receiver* ***NEW!***	8-SOIC	3.64	2.93	2.67
SN65LVDS9637D	296-1432-5-ND	Dual High Speed Differential Receiver	8-SOIC	3.05	2.46	2.24
SN65LVDS9637DGK	296-12003-5-ND	Dual High Speed Differential Receiver	8-MSOP	3.05	2.46	2.24
SN65LVDS9637DGKR	296-12003-1-ND	Dual High Speed Differential Receiver	8-MSOP	3.22	2.49	2.26
SN65LVDS9637DGKR	296-12003-2-ND	Dual High Speed Differential Receiver	8-MSOP	3105.00/2,500		
SN65LVDS9637DGN	296-6932-5-ND	Dual High Speed Differential Receiver	8-MSOP	3.16	2.55	2.32
SN65LVDS9638D	296-1433-5-ND	Dual High Speed Differential Driver	8-SOIC	3.05	2.46	2.24
SN65LVDS9638DGKR	296-12004-1-ND	Dual High Speed Differential Driver	8-MSOP	3.22	2.49	2.26
SN65LVDS9638DGKR	296-12004-2-ND	Dual High Speed Differential Driver	8-MSOP	3105.00/2,500		
SN65LVDS9638DGN	296-6933-5-ND	Dual High Speed Differential Driver	8-MSOP	3.16	2.55	2.32
SN75LVDS31D	296-12325-5-ND	Quad High Speed Differential Driver	16-SOIC	4.00	3.22	2.94
SN75LVDS31PW	296-12005-5-ND	Quad High Speed Differential Driver	16-TSSOP	4.00	3.22	2.94
SN75LVDS31PWR	296-12005-1-ND	Quad High Speed Differential Driver	16-TSSOP	3.54	2.90	2.60
SN75LVDS31PWR	296-12005-2-ND	Quad High Speed Differential Driver	16-TSSOP	3138.80/2,000		
SN75LVDS32D	296-12326-5-ND	Quad High Speed Differential Driver	16-SOIC	4.00	3.22	2.94
SN75LVDS32PW	296-13328-5-ND	Quad High Speed Differential Driver	16-TSSOP	4.00	3.22	2.94
SN75LVDS82DGGR	296-6666-1-ND	Flatlink™ Receiver	56-TSSOP	6.18	5.05	4.54
SN75LVDS82DGGR	296-6666-2-ND	Flatlink™ Receiver	56-TSSOP	5480.00/2,000		
SN75LVDS83ADGG	296-24867-5-ND	Flatlink™ Transmitter* ***NEW!***	56-TSSOP	6.86	5.52	5.03
SN75LVDS83DGG	296-6667-5-ND	Flatlink™ Transmitter	56-TSSOP	5.52	4.44	4.04
SN75LVDS83BDGG	296-24552-5-ND	Flatlink™ Transmitter* ***NEW!***	56-TSSOP	7.88	6.46	5.83
SN75LVDS83BDGGR	296-24529-1-ND	Flatlink™ Transmitter* ***NEW!***	56-TSSOP	6.89	5.72	5.20
SN75LVDS83BDGGR	296-24529-2-ND	Flatlink™ Transmitter* ***NEW!***	56-TSSOP	6760.00/2,000		
SN75LVDS83BZQLR	296-24530-1-ND	Flatlink™ Transmitter* ***NEW!***	56-BGA	7.42	6.16	5.60
SN75LVDS83BZQLR	296-24530-2-ND	Flatlink™ Transmitter* ***NEW!***	56-BGA	3780.00/1,000		
SN75LVDS84ADGGR	296-6668-1-ND	Flatlink™ Transmitter	48-TSSOP	4.92	4.02	3.61
SN75LVDS84ADGGR	296-6668-2-ND	Flatlink™ Transmitter	48-TSSOP	4362.00/2,000		
SN75LVDS84DGG	296-26670-5-ND	Flatlink™ Transmitter* ***NEW!***	48-TSSOP	6.24	5.02	4.58
SN75LVDS86ADGG	296-1998-5-ND	Flatlink™ Receiver	48-TSSOP	6.58	5.29	4.82
SN75LVDS86ADGGR	296-6671-1-ND	Flatlink™ Receiver	48-TSSOP	5.91	4.83	4.34
SN75LVDS86ADGGR	296-6671-2-ND	Flatlink™ Receiver	48-TSSOP	5240.00/2,000		
SN75LVDS86DGG	296-6672-5-ND	Flatlink™ Receiver	48-TSSOP	7.03	5.77	5.20
SN75LVDS88BPFD	296-6673-5-ND	FT LCD-Panel Timing Controller with LVDS Interface	100-HTQFP	8.93	7.32	6.61
SN75LVDS050D	296-12321-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	4.00	3.22	2.94
SN75LVDS051D	296-12322-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	6.10	4.91	4.47
SN75LVDS179D	296-12323-5-ND	Low Voltage Diff. Driver/Receiver	8-SOIC	3.01	2.43	2.19
SN75LVDS180D	296-12324-5-ND	Low Voltage Diff. Driver/Receiver	14-SOIC	2.83	2.28	2.08
SN75LVDS386DGG	296-9975-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12.18	9.99	9.01
SN75LVDS386DGGR	296-9975-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10.79	8.96	8.14
SN75LVDS386DGGR	296-9975-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10582.00/2,000		
SN75LVDS387DGG	296-2367-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	12.18	9.99	9.01
SN75LVDS389DBT	296-2369-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	6.83	5.60	5.06
SN75LVDS391PW	296-26667-5-ND	HS Differential Line Driver* ***NEW!***	16-TSSOP	4.12	3.31	3.02
SN75LVDS9637D	296-12327-5-ND	Dual High Speed Differential Receiver	8-SOIC	3.05	2.46	2.24
SN75LVDS9638D	296-12328-5-ND	Dual High Speed Differential Driver	8-SOIC	3.05	2.46	2.24
		LVDT				
SN65LVDT2D	296-12140-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.55	1.25	1.13
SN65LVDT2DBVR	296-6896-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.57	1.25	1.12
SN65LVDT2DBVR	296-6896-2-ND	High Speed Diff. Line Receiver	SOT-23-5	1740.00/3,000		
SN65LVDT14PW	296-12736-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	8.50	6.97	6.29
SN65LVDT14QPWREP	296-19499-1-ND	High Speed Diff. Driver/Receiver	20-TSSOP	8.29	6.89	6.26
SN65LVDT14QPWREP	296-19499-2-ND	High Speed Diff. Driver/Receiver	20-TSSOP	8138.00/2,000		
SN65LVDT32BDR	296-6897-1-ND	Quad LVDS Receiver	16-SOIC	7.58	6.30	5.72
SN65LVDT32BDR	296-6897-2-ND	Quad LVDS Receiver	16-SOIC	9295.00/2,500		
SN65LVDT33D	296-9749-5-ND	Quad, High Speed Diff. Receiver	16-SOIC	6.10	4.91	4.47
SN65LVDT33PW	296-9750-5-ND	Quad, High Speed Diff. Receiver	16-TSSOP	6.10	4.91	4.47
SN65LVDT34D	296-9751-5-ND	Dual, High Speed Diff. Receiver	8-SOIC	4.48	3.60	3.28
SN65LVDT41PW	296-12738-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	8.50	6.97	6.29
SN65LVDT100D	296-15389-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	9.50	7.79	7.03
SN65LVDT100DGK	296-15390-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	9.50	7.79	7.03
SN65LVDT101D	296-15391-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	7.25	5.95	5.37
SN65LVDT101DGK	296-15392-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	7.25	5.95	5.37
SN65LVDT122D	296-13652-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-SOIC	15.73	13.23	12.16
SN65LVDT122PW	296-13653-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-TSSOP	15.73	13.23	12.16
SN65LVDT125ADBT	296-16979-ND	1.5Gbps, 4x4 LVDS Crosspoint Switch	38-TSSOP	22.40	19.04	17.64
SN65LVDT250DBT	296-16932-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	23.40	19.89	18.43
SN65LVDT348D	296-12737-5-ND	Quad, HS Differential Receiver	16-SOIC	4.82	3.87	3.53
SN65LVDT348PW	296-12650-5-ND	Quad, HS Differential Receiver	16-TSSOP	4.82	3.87	3.53
SN65LVDT352PW	296-12651-5-ND	Quad, HS Differential Receiver	16-TSSOP	6.83	5.49	5.01
SN65LVDT386DGG	296-2360-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	13.02	10.96	10.07
SN65LVDT386DGGR	296-2360-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11.59	9.83	9.08
SN65LVDT386DGGR	296-2360-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	12852.00/2,000		
SN65LVDT388ADBT	296-6899-5-ND	Octal LVDS Receiver	38-TSSOP	7.88	6.46	5.83
SN65LVDT390D	296-6900-5-ND	High Speed Diff. Line Receiver	16-SOIC	4.59	3.69	3.37
SN65LVDT390PW	296-6901-5-ND	High Speed Diff. Line Receiver	16-TSSOP	4.59	3.69	3.37
SN65LVDT3486BDR	296-6898-1-ND	Quad LVDS Receiver	16-SOIC	6.18	5.05	4.54

* ***RoHS Compliant***

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN75LVDT386DGG	296-2370-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11.55	9.72	8.93
SN75LVDT386DGGR	296-2370-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11.58	9.62	8.74
SN75LVDT388ADBT	296-26671-5-ND	HS Differential Line Receiver* ***NEW!***	38-TSSOP	7.88	6.46	5.83
SN75LVDT390PW	296-26672-5-ND	HS Differential Line Receiver* ***NEW!***	16-TSSOP	4.59	3.69	3.37
SN75LVDT1422PAG	296-18076-ND	14-Bit Full Duplex Serializer/ Deserializer	64-TQFP	12.32	10.36	9.52
LVELT						
SN65LVELT22D	296-24068-5-ND	3.3V Dual LVTTL-to-Diff. LVPECL Translator	8-SOIC	3.42	2.75	2.51
SN65LVELT22DGK	296-24088-5-ND	3.3V Dual LVTTL-to-Diff. LVPECL Translator	8-MSOP	3.42	2.75	2.51
SN65LVELT23D	296-24824-5-ND	3.3V Dual Diff. LVPECL/LVDS Buffer-to-LVTTL Translator* ***NEW!***	8-SOIC	6.44	5.18	4.72
SN65LVELT23DGK	296-24938-5-ND	3.3V Dual Diff. LVPECL/LVDS Buffer-to-LVTTL Translator* ***NEW!***	8-MSOP	6.44	5.18	4.72
LVP						
SN65LVP16DRFT	296-17445-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	7.69	6.38	5.80
SN65LVP16DRFT	296-17445-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1232.50/250		
SN65LVP16EVM	296-18530-ND	Evaluation Module for SN65LVP16	—	50.00	—	—
SN65LVP17DRFT	296-17446-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	7.69	6.38	5.80
SN65LVP17DRFT	296-17446-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1232.50/250		
SN65LVP17EVM	296-21008-ND	Evaluation Module for SN65LVP17	—	50.00	—	—
SN65LVP18DRFT	296-17447-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	6.90	5.64	5.06
SN65LVP18DRFT	296-17447-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1063.75/250		
SN65LVP18EVM	296-19430-ND	Evaluation Module for SN65LVP18	—	50.00	—	—
SN65LVP19DRFT	296-17448-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	6.90	5.64	5.06
SN65LVP19DRFT	296-17448-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	8-SON	1063.75/250		
SN65LVP19EVM	296-21009-ND	Evaluation Module for SN65LVP19	—	50.00	—	—
SN65LVP20DRFT	296-17177-1-ND	LVPECL Repeater/Translator	8-SON	10.73	8.91	8.10
SN65LVP20DRFT	296-17177-2-ND	LVPECL Repeater/Translator	8-SON	1721.25/250		
SN65LVP20EVM	296-18531-ND	Evaluation Module for SN65LVP20	—	50.00	—	—
MLVD Family						
MLVD20XEVM	296-13552-ND	Evaluation Module for SN65MLVD20X	—	101.00	—	—
SN65MLVD2DRBT	296-21313-1-ND	Single M-LVDS Receiver	8-SON	4.20	3.43	3.08
SN65MLVD2DRBT	296-21313-2-ND	Single M-LVDS Receiver	8-SON	647.50/250		
SN65MLVD3DRBT	296-21314-1-ND	Single M-LVDS Receiver	8-SON	4.20	3.43	3.08
SN65MLVD3DRBT	296-21314-2-ND	Single M-LVDS Receiver	8-SON	647.50/250		
SN65MLVD047AD	296-20682-5-ND	MLVDS Quad Diff. Line Driver	16-SOIC	4.90	3.94	3.59
SN65MLVD047APW	296-20683-5-ND	MLVDS Quad Diff. Line Driver	16-TSSOP	4.90	3.94	3.59
SN65MLVD047D	296-16855-5-ND	MLVDS Quad Diff. Line Driver	16-SOIC	4.90	3.94	3.59
SN65MLVD047PW	296-16856-ND	MLVDS Quad Diff. Line Driver	16-TSSOP	4.90	3.94	3.59
SN65MLVD048RGZR	296-25562-1-ND	Quad M-LVDS Diff. Receiver* ***NEW!***	48-VQFN	7.95	6.60	6.00
SN65MLVD048RGZR	296-25562-2-ND	Quad M-LVDS Diff. Receiver* ***NEW!***	48-VQFN	9750.00/2,500		
SN65MLVD080DGG	296-15783-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	12.00	9.84	8.88
SN65MLVD082DGG	296-15833-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	12.00	9.84	8.88
SN65MLVD128DGG	296-16849-ND	1:8 LVTTL to MLVDS Repeater	48-TSSOP	11.50	9.43	8.51
SN65MLVD129DGG	296-16850-ND	Dual 1:4 LVTTL to MLVDS Repeater	48-TSSOP	11.50	9.43	8.51
SN65MLVD200AD	296-16667-5-ND	MLVDS Line Driver/Receiver	8-SOIC	4.59	3.69	3.37
SN65MLVD200D	296-12207-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	4.59	3.69	3.37
SN65MLVD201D	296-14187-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	5.07	4.08	3.72
SN65MLVD202AD	296-16668-5-ND	MLVDS Line Driver/Receiver	14-SOIC	4.59	3.69	3.37
SN65MLVD202D	296-12208-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	4.59	3.69	3.37
SN65MLVD203D	296-14188-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	5.07	4.08	3.72
SN65MLVD204AD	296-16669-5-ND	MLVDS Line Driver/Receiver	8-SOIC	4.59	3.69	3.37
SN65MLVD204D	296-12209-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	4.59	3.69	3.37
SN65MLVD205AD	296-16670-5-ND	MLVDS Line Driver/Receiver	14-SOIC	4.59	3.69	3.37
SN65MLVD205D	296-12210-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	4.59	3.69	3.37
SN65MLVD206D	296-14189-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	5.07	4.08	3.72
SN65MLVD207D	296-14190-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	5.07	4.08	3.72
RS422 / RS423 / RS485						
AM26C31CD	296-6781-5-ND	Quad Differential Line Driver	16-SOIC	1.34	1.08	.95
AM26C31CDBR	296-6782-1-ND	Quad Differential Line Driver	16-SSOP	1.34	1.06	.96
AM26C31CDBR	296-6782-2-ND	Quad Differential Line Driver	16-SSOP	986.00/2,000		
AM26C31CDR	296-24343-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1.22	.96	.87
AM26C31CDR	296-24343-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1120.00/2,500		
AM26C31CN	296-6783-5-ND	Quad Differential Line Driver	16-Dip	1.23	.99	.87
AM26C31CNSR	296-25905-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	1.22	.96	.87
AM26C31CNSR	296-25905-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	896.00/2,000		
AM26C31ID	296-6784-5-ND	Quad Differential Line Driver	16-SOIC	1.46	1.17	1.02
AM26C31IDBR	296-25906-1-ND	Quad Differential Line Driver* ***NEW!***	16-SSOP	1.34	1.06	.96
AM26C31IDBR	296-25906-2-ND	Quad Differential Line Driver* ***NEW!***	16-SSOP	986.00/2,000		
AM26C31IDR	296-24344-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1.34	1.06	.96
AM26C31IDR	296-24344-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1232.50/2,500		
AM26C31IN	296-6785-5-ND	Quad Differential Line Driver	16-Dip	1.34	1.08	.95
AM26C31INSR	296-25907-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	1.46	1.16	1.04
AM26C31INSR	296-25907-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	1076.00/2,000		
AM26C31IPW	296-25908-5-ND	Quad Differential Line Driver* ***NEW!***	16-TSSOP	1.34	1.08	.95
AM26C31MDREP	296-23457-1-ND	Quad Differential Line Driver	16-SOIC	3.60	2.94	2.64
AM26C31QD	296-13867-5-ND	Quad Differential Line Driver	16-SOIC	1.48	1.19	1.04
AM26C31QDRG4	296-22029-1-ND	Quad Differential Line Driver	16-SOIC	1.36	1.08	.97
AM26C32CD	296-6786-5-ND	Quad Differential Line Receiver	16-SOIC	1.34	1.08	.95
AM26C32CDR	296-24345-1-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
AM26C32CDR	296-24345-2-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	1120.00/2,500		
AM26C32CN	296-6787-5-ND	Quad Differential Line Receiver	16-Dip	1.23	.99	.87
AM26C32ID	296-6788-5-ND	Quad Differential Line Receiver	16-SOIC	1.46	1.17	1.02
AM26C32IN	296-6789-5-ND	Quad Differential Line Receiver	16-Dip	1.34	1.08	.95
AM26C32IPW	296-25909-5-ND	Quad Differential Line Receiver* ***NEW!***	16-TSSOP	1.34	1.08	.95
AM26C32QD	296-13868-5-ND	Quad Differential Line Receiver	16-SOIC	1.48	1.19	1.04
AM26LS31CD	296-1010-5-ND	Quad Differential Line Driver	16-SOIC	1.05	.84	.74
AM26LS31CDR	296-1010-1-ND	Quad Differential Line Driver	16-SOIC	.95	.75	.68
AM26LS31CDR	296-1010-2-ND	Quad Differential Line Driver	16-SOIC	875.00/2,500		
AM26LS31CN	296-1374-5-ND	Quad Differential Line Driver	16-Dip	1.08	.87	.76
AM26LS31CNSR	296-25910-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	1.17	.93	.84
AM26LS31CNSR	296-25910-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	862.00/2,000		
AM26LS32ACD	296-1011-5-ND	Quad Differential Line Receiver	16-SOIC	1.05	.84	.74
AM26LS32ACDR	296-1011-1-ND	Quad Differential Line Receiver	16-SOIC	.95	.75	.68
AM26LS32ACDR	296-1011-2-ND	Quad Differential Line Receiver	16-SOIC	875.00/2,500		
AM26LS32ACN	296-1376-5-ND	Quad Differential Line Receiver	16-Dip	.88	.70	.62
AM26LS32ACNSR	296-6790-1-ND	Quad Differential Line Receiver	16-SOP	1.17	.93	.84
AM26LS32ACNSR	296-6790-2-ND	Quad Differential Line Receiver	16-SOP	862.00/2,000		
AM26LS32AID	296-25911-5-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	1.25	1.01	.88
AM26LS32AIDR	296-13065-1-ND	Quad Differential Line Receiver	16-SOIC	1.17	.93	.84
AM26LS32AIDR	296-13065-2-ND	Quad Differential Line Receiver	16-SOIC	1077.50/2,500		
AM26LS32AIN	296-13066-5-ND	Quad Differential Line Receiver	16-Dip	.88	.70	.62
AM26LS32AMDREP	296-22084-1-ND	Quad Differential Line Receiver	16-SOIC	3.45	2.82	2.53
AM26LS33ACD	296-6791-5-ND	Quad Differential Line Receiver	16-SOIC	.92	.74	.65
AM26LS33ACDR	296-14473-1-ND	Quad Differential Line Receiver	16-SOIC	.97	.75	.66
AM26LS33ACDR	296-14473-2-ND	Quad Differential Line Receiver	16-SOIC	797.50/2,500		
AM26LS33ACN	296-6792-5-ND	Quad Differential Line Receiver	16-Dip	.97	.76	.66
AM26LV31CD	296-6793-5-ND	Quad Differential Line Driver	16-SOIC	1.26	1.01	.89
AM26LV31CNSR	296-25913-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	1.14	.90	.81
AM26LV31CNSR	296-25913-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOP	840.00/2,000		
AM26LV31EIDR	296-24690-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1.75	1.35	1.23
AM25LV31EIDR	296-24690-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1687.50/2,500		
AM26LV31EINSR	296-24691-1-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1.75	1.35	1.23
AM26LV31EINSR	296-24691-2-ND	Quad Differential Line Driver* ***NEW!***	16-SOIC	1350.00/2,000		
AM26LV31EIPWR	296-24692-1-ND	Quad Differential Line Driver* ***NEW!***	16-TSSOP	1.75	1.35	1.23
AM26LV31EIPWR	296-24692-2-ND	Quad Differential Line Driver* ***NEW!***	16-TSSOP	1350.00/2,000		
AM26LV31EIRGYR	296-24693-1-ND	Quad Differential Line Driver* ***NEW!***	16-VQFN	1.75	1.35	1.23
AM26LV31EIRGYR	296-24693-2-ND	Quad Differential Line Driver* ***NEW!***	16-VQFN	2025.00/3,000		
AM26LV31ESDREP	296-23925-1-ND	Quad Differential Line Driver	16-SOIC	2.80	2.16	1.96
AM26LV31IDR	296-18088-1-ND	Quad Differential Line Driver	16-SOIC	1.25	.99	.90
AM26LV31IDR	296-18088-2-ND	Quad Differential Line Driver	16-SOIC	1155.00/2,500		
AM26LV31INSR	296-18089-1-ND	Quad Differential Line Driver	16-SOP	1.25	.99	.90
AM26LV31INSR	296-18089-2-ND	Quad Differential Line Driver	16-SOP	924.00/2,000		
AM26LV32CD	296-6794-5-ND	Quad Differential Line Receiver	16-SOIC	1.68	1.35	1.18
AM26LV32CDR	296-6794-1-ND	Quad Differential Line Receiver	16-SOIC	1.52	1.20	1.08
AM26LV32CNSR	296-6796-1-ND	Quad Differential Line Receiver	16-SOP	1.52	1.20	1.08
AM26LV32EIDR	296-24694-1-ND	Quad Differential Line Rcvr.* ***NEW!***	16-SOIC	2.10	1.62	1.47
AM26LV32EIDR	296-24694-2-ND	Quad Differential Line Rcvr.* ***NEW!***	16-SOIC	2025.00/2,500		
AM26LV32EINSR	296-24695-1-ND	Quad Differential Line Rcvr.* ***NEW!***	16-SOIC	2.10	1.62	1.47
AM26LV32EINSR	296-24695-2-ND	Quad Differential Line Rcvr.* ***NEW!***	16-SOIC	1620.00/2,000		
AM26LV32EIPWR	296-24696-1-ND	Quad Differential Line Rcvr.* ***NEW!***	16-TSSOP	2.10	1.62	1.47
AM26LV32EIPWR	296-24696-2-ND	Quad Differential Line Rcvr.* ***NEW!***	16-TSSOP	1620.00/2,000		
AM26LV32EIRGYR	296-24697-1-ND	Quad Differential Line Rcvr.* ***NEW!***	16-QFN	2.10	1.62	1.47
AM26LV32EIRGYR	296-24697-2-ND	Quad Differential Line Rcvr.* ***NEW!***	16-QFN	2430.00/3,000		
AM26LV32EMDREP	296-23926-1-ND	Quad Differential Line Receiver	16-SOIC	2.80	2.16	1.96
AM26LV32ID	296-25914-5-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	1.71	1.38	1.24
AM26LV32IDR	296-18090-1-ND	Quad Differential Line Receiver	16-SOIC	1.67	1.32	1.19
AM26LV32IDR	296-18090-2-ND	Quad Differential Line Receiver	16-SOIC	1540.00/2,500		
AM26S10CD	296-6797-5-ND	Quad Bus Transceiver	16-SOIC	1.68	1.35	1.18
AM26S10CN	296-6798-5-ND	Quad Bus Transceiver	16-Dip	1.54	1.24	1.08
M26LV32CDR	296-6794-2-ND	Quad Differential Line Receiver	16-SOP	1400.00/2,500		
MC3486D	296-7037-5-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	1.18	.95	.83
MC3486N	296-7038-5-ND	Tri-State Quad Diff. Line Receiver	16-Dip	1.08	.87	.76
MC3487DR	296-14625-1-ND	Quad Differential Line Driver	16-SOIC	1.06	.84	.76
MC3487N	296-1408-5-ND	Quad Differential Line Driver	16-Dip	1.08	.87	.76
SN55LBC180RSAT	296-24855-1-ND	RS-485 Differential Driver/ Receiver* ***NEW!***	16-QFN	3.78	3.09	2.78
SN55LBC180RSAT	296-24855-2-ND	RS-485 Differential Driver/ Receiver* ***NEW!***	16-QFN	582.75/250		
SN65176BDR	296-14636-1-ND	Differential Bus Transceiver	8-SOIC	.88	.68	.60
SN65C1167NSR	296-9699-1-ND	Dual Differential Driver/Receiver	16-SOP	2.10	1.62	1.47
SN65C1168ENSR	296-21709-1-ND	Dual Differential Driver/Receiver	16-SOP	2.80	2.16	1.96
SN65C1168ENSR	296-21709-2-ND	Dual Differential Driver/Receiver	16-SOP	2160.00/2,000		
SN65C1168EPWR	296-21710-1-ND	Dual Differential Driver/Receiver	16-SOIC	2.80	2.16	1.96
SN65C1168EPWR	296-21710-2-ND	Dual Differential Driver/Receiver	16-SOIC	2160.00/2,000		
SN65C1168PWR	296-14348-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.93	1.49	1.35
SN65C1168PWR	296-14348-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1486.00/2,000		
SN65EL16D	296-24024-5-ND	5V ECL Differential Receiver	8-SOIC	3.42	2.75	2.51
SN65EL16DGK	296-24103-5-ND	5V ECL Differential Receiver	8-MSOP	3.42	2.75	2.51
SN65HVD05D	296-12988-5-ND	High Output RS-485 Transceiver	8-SOIC	4.59	3.69	3.37
SN65HVD05P	296-15215-5-ND	High Output RS-485 Transceiver	8-Dip	4.59	3.69	3.37
SN65HVD06D	296-12989-5-ND	High Output RS-485 Transceiver	8-SOIC	4.34	3.49	3.18
SN65HVD06P	296-15095-5-ND	High Output RS-485 Transceiver	8-Dip	4.34	3.49	3.18
SN65HVD07D	296-12990-5-ND	High Output RS-485 Transceiver	8-SOIC	4.34	3.49	3.18
SN65HVD07P	296-19415-5-ND	High Output RS-485 Transceiver	8-Dip	4.34	3.49	3.18
SN65HVD08D	296-14010-5-ND	Wide Supply Range RS-485 Transcvr	8-SOIC	5.46	4.39	4.00
SN65HVD08P	296-14011-5-ND	Wide Supply Range RS-485 Transcvr	8-Dip	5.46	4.39	4.00
SN65HVD09DGGR	296-24051-1-ND	9-Ch., RS-422/RS-485 Transcvr	56-TSSOP	9.28	7.70	7.00
SN65HVD09DGGR	296-24051-2-ND	9-Ch., RS-422/RS-485 Transcvr	56-TSSOP	9100.00/2,000		
SN65HVD10D	296-12645-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.23	3.40	3.10
SN65HVD10MDREP	296-24734-1-ND	3.3V RS-485 Transceiver* ***NEW!***	8-SOIC	9.33	7.75	7.04
SN65HVD10MDREP	296-24734-2-ND	3.3V RS-485 Transceiver* ***NEW!***	8-SOIC	11440.00/2,500		
SN65HVD10QD	296-14012-5-ND	3.3V RS-485 Transceiver	8-SOIC	6.58	5.29	4.82
SN65HVD10QDREP	296-18120-1-ND	3.3V RS-485 Transceiver	8-SOIC	6.68	5.55	5.04
SN65HVD10QDREP	296-18120-2-ND	3.3V RS-485 Transceiver	8-SOIC	8190.00/2,500		
SN65HVD11D	296-12646-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.00	3.22	2.94
SN65HVD11P	296-18521-5-ND	3.3V RS-485 Transceiver	8-Dip	4.00	3.22	2.94
SN65HVD11QD	296-14013-5-ND	3.3V RS-485 Transceiver	8-SOIC	6.36	5.11	4.66
SN65HVD12D	296-12647-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.00	3.22	2.94
SN65HVD12IDREP	296-18121-1-ND	3.3V RS-485 Transceiver	8-SOIC	5.34	4.37	3.92
SN65HVD12IDREP	296-18121-2-ND	3.3V RS-485 Transceiver	8-SOIC	5918.50/2,500		
SN65HVD12P	296-13862-5-ND	3.3V RS-485 Transceiver	8-Dip	4.00	3.22	2.94
SN65HVD20D	296-14184-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.76	3.83	3.49
SN65HVD21D	296-14185-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.76	3.83	3.49
SN65HVD21MDREP	296-19496-1-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	7.82	6.49	5.90
SN65HVD21P	296-15096-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.76	3.83	3.49
SN65HVD22D	296-14186-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.76	3.83	3.49
SN65HVD22DR	296-26341-1-ND	Extended Common-Mode RS-485 Transceiver* ***NEW!***	8-SOIC	4.20	3.43	3.08
SN65HVD22DR	296-26341-2-ND	Extended Common-Mode RS-485 Transceiver* ***NEW!***	8-SOIC	4655.00/2,500		
SN65HVD22EVM	296-20538-ND	Evaluation Module for SN65HVD2X Family	—	50.00	—	—
SN65HVD22P	296-15097-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.76	3.83	3.49
SN65HVD23D	296-15230-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	6.16	4.95	4.51

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN65HVD23P	296-15231-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	6.16	4.95	4.51
SN65HVD24D	296-15232-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	6.16	4.95	4.51
SN65HVD24P	296-15233-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	6.16	4.95	4.51
SN65HVD30D	296-26346-5-ND	3.3V Full Duplex RS-485 Driver/ Rcvr.* ***NEW!***	8-SOIC	4.48	3.60	3.28
SN65HVD30DR	296-19625-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	4.02	3.29	2.95
SN65HVD30DR	296-19625-2-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	4455.00/2,500		
SN65HVD30MDREP	296-22238-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	8.11	6.74	6.12
SN65HVD31DR	296-19626-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	3.78	3.09	2.78
SN65HVD31DR	296-19626-2-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	4190.00/2,500		
SN65HVD32D	296-26347-5-ND	3.3V Full Duplex RS-485 Driver/ Rcvr.* ***NEW!***	8-SOIC	4.12	3.31	3.02
SN65HVD32DR	296-19627-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	3.66	2.99	2.69
SN65HVD32DR	296-19627-2-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	8-SOIC	4057.50/2,500		
SN65HVD33D	296-26348-5-ND	3.3V Full Duplex RS-485 Driver/ Rcvr.* ***NEW!***	14-SOIC	4.48	3.60	3.28
SN65HVD33DR	296-18704-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	14-SOIC	4.02	3.29	2.95
SN65HVD33DR	296-18704-2-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	14-SOIC	4455.00/2,500		
SN65HVD33MDREP	296-22239-1-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	14-SOIC	8.35	6.93	6.30
SN65HVD33MDREP	296-22239-2-ND	3.3V Full-Duplex RS-485 Driver/Rcvr.	14-SOIC	10237.50/2,500		
SN65HVD34DR	296-18705-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.80	3.92	3.52
SN65HVD34DR	296-18705-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5320.00/2,500		
SN65HVD35D	296-26349-5-ND	3.3V Full Duplex RS-485 Driver/ Rcvr.* ***NEW!***	14-SOIC	4.12	3.31	3.02
SN65HVD35DR	296-18706-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	3.66	2.99	2.69
SN65HVD35DR	296-18706-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4057.50/2,500		
SN65HVD50DR	296-19629-1-ND	5V Full-Duplex RS-485 Driver/Receiver	8-SOIC	4.86	3.97	3.57
SN65HVD52DR	296-19631-1-ND	5V Full-Duplex RS-485 Driver/Receiver	8-SOIC	4.86	3.97	3.57
SN65HVD52DR	296-19631-2-ND	5V Full-Duplex RS-485 Driver/Receiver	8-SOIC	5386.50/2,500		
SN65HVD61D	296-21593-5-ND	ControlNet™ Transceiver	14-SOIC	12.54	10.55	9.69
SN65HVD230DR	296-11654-1-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	4.05	3.31	2.97
SN65HVD230DR	296-11654-2-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	4490.00/2,500		
SN65HVD230QD	296-13123-5-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	4.34	3.49	3.18
SN65HVD230QDG4	296-26342-5-ND	3.3V CAN Transceiver* ***NEW!***	8-SOIC	4.34	3.49	3.18
SN65HVD230QDG4Q1	296-23353-5-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	4.48	3.60	3.28
SN65HVD230QDRG4	296-24420-1-ND	3.3V CAN Transcvr with Standby Mode* ***NEW!***	8-SOIC	4.65	3.80	3.41
SN65HVD230QDRG4	296-24420-2-ND	3.3V CAN Transcvr with Standby Mode* ***NEW!***	8-SOIC	5153.75/2,500		
SN65HVD231D	296-12206-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	4.62	3.72	3.39
SN65HVD231QD	296-12704-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	4.34	3.49	3.18
SN65HVD231QDRG4Q1	296-24421-1-ND	3.3V CAN Transcvr with Sleep Mode* ***NEW!***	8-SOIC	4.80	3.92	3.52
SN65HVD231QDRG4Q1	296-24421-2-ND	3.3V CAN Transcvr with Sleep Mode* ***NEW!***	8-SOIC	5320.00/2,500		
SN65HVD231QDRQ1	296-15380-1-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	4.80	3.92	3.52
SN65HVD231QDRQ1	296-15380-2-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	5320.00/2,500		
SN65HVD232D	296-12282-5-ND	3.3V CAN Transceiver	8-SOIC	3.36	2.70	2.46
SN65HVD232QD	296-12705-5-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	4.20	3.38	3.08
SN65HVD232QDRQ1	296-15381-1-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	4.50	3.68	3.30
SN65HVD232QDRQ1	296-15381-2-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	4987.50/2,500		
SN65HVD233D	296-14639-5-ND	3.3V CAN Transceiver	8-SOIC	4.62	3.72	3.39
SN65HVD233MDREP	296-23973-1-ND	3.3V CAN Transceiver	8-SOIC	7.95	6.60	6.00
SN65HVD233MDREP	296-23973-2-ND	3.3V CAN Transceiver	8-SOIC	9750.00/2,500		
SN65HVD234D	296-15228-5-ND	3.3V CAN Transceiver	8-SOIC	4.48	3.60	3.28
SN65HVD235D	296-15229-5-ND	3.3V CAN Transceiver	8-SOIC	4.76	3.83	3.49
SN65HVD251D	296-13816-5-ND	CAN Transceiver	8-SOIC	2.94	2.37	2.16
SN65HVD251DRG4	296-21805-1-ND	CAN Transceiver	8-SOIC	3.15	2.43	2.21
SN65HVD251DRG4	296-21805-2-ND	CAN Transceiver	8-SOIC	3037.50/2,500		
SN65HVD251P	296-19281-5-ND	CAN Transceiver	8-Dip	2.94	2.37	2.16
SN65HVD251QDRQ1	296-24565-1-ND	CAN Transceiver* ***NEW!***	8-SOIC	3.15	2.58	2.31
SN65HVD251QDRQ1	296-24565-2-ND	CAN Transceiver* ***NEW!***	8-SOIC	3492.50/2,500		
SN65HVD379DR	296-19628-1-ND	3.3V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	5.55	4.54	4.07
SN65HVD379DR	296-19628-2-ND	3.3V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	6151.25/2,500		
SN65HVD485EDGK	296-26351-5-ND	Half-Duplex RS-485 Transcvr.* ***NEW!***	8-MSOP	2.83	2.28	2.08
SN65HVD485EDGKR	296-17174-1-ND	Half-Duplex RS-485 Transceiver	8-MSOP	3.08	2.38	2.16
SN65HVD485EDGKR	296-17174-2-ND	Half-Duplex RS-485 Transceiver	8-MSOP	2970.00/2,500		
SN65HVD485EDR	296-17175-1-ND	Half-Duplex RS-485 Transceiver	8-SOIC	2.21	1.71	1.55
SN65HVD485EDR	296-17175-2-ND	Half-Duplex RS-485 Transceiver	8-SOIC	2127.50/2,500		
SN65HVD485EP	296-17498-5-ND	Half-Duplex RS-485 Transceiver	8-Dip	2.36	1.90	1.71
SN65HVD1040AQDRQ1	296-23668-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2.45	1.89	1.72
SN65HVD1040AQDRQ1	296-23668-2-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2362.50/2,500		
SN65HVD1040D	296-26334-5-ND	Low Power CAN Transceiver* ***NEW!***	8-SOIC	2.33	1.88	1.69
SN65HVD1040DR	296-21804-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2.10	1.62	1.47
SN65HVD1040DR	296-21804-2-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2025.00/2,500		
SN65HVD1040QDRQ1	296-21592-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2.45	1.89	1.72
SN65HVD1040QDRQ1	296-21592-2-ND	EMC Optimized HS CAN Transceiver	8-SOIC	2362.50/2,500		
SN65HVD1050AQDRQ1	296-23669-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	1.93	1.49	1.35
SN65HVD1050AQDRQ1	296-23669-2-ND	EMC Optimized HS CAN Transceiver	8-SOIC	1857.50/2,500		
SN65HVD1050D	296-19416-5-ND	EMC Optimized HS CAN Transceiver	8-SOIC	1.71	1.38	1.24
SN65HVD1050DR	296-26335-1-ND	EMC Optimized HS CAN Xcvr.* ***NEW!***	8-SOIC	1.71	1.35	1.22
SN65HVD1050DR	296-26335-2-ND	EMC Optimized HS CAN Xcvr.* ***NEW!***	8-SOIC	1575.00/2,500		
SN65HVD1050MDREP	296-21409-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	4.20	3.43	3.08
SN65HVD1050QDRQ1	296-19876-1-ND	EMC Optimized HS CAN Transceiver	8-SOIC	1.93	1.49	1.35
SN65HVD1050QDRQ1	296-19876-2-ND	EMC Optimized HS CAN Transceiver	8-SOIC	1857.50/2,500		
SN65HVD1176D	296-15345-5-ND	Profibus RS-485 Transceiver	8-SOIC	4.93	3.96	3.61
SN65HVD1176DR	296-26337-1-ND	Profibus RS-485 Transceiver* ***NEW!***	8-SOIC	4.41	3.61	3.24
SN65HVD1176DR	296-26337-2-ND	Profibus RS-485 Transceiver* ***NEW!***	8-SOIC	4887.50/2,500		
SN65HVD1780D	296-26339-5-ND	70V Fault-Protected RS-485 Transceiver* ***NEW!***	8-SOIC	6.30	5.07	4.62
SN65HVD1780DR	296-23800-1-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	5.55	4.54	4.07
SN65HVD1780DR	296-23800-2-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6152.50/2,500		
SN65HVD1780P	296-23801-5-ND	70V Fault-Protected RS-485 Transceiver	8-Dip	6.30	5.07	4.62
SN65HVD1781D	296-26340-5-ND	70V Fault-Protected RS-485 Transceiver* ***NEW!***	8-SOIC	6.30	5.07	4.62
SN65HVD1781DR	296-23118-1-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	5.55	4.54	4.07
SN65HVD1781DR	296-23118-2-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6152.50/2,500		
SN65HVD1781P	296-24455-5-ND	70V Fault-Protected RS-485 Transceiver* ***NEW!***	8-PDIP	6.30	5.07	4.62
SN65HVD1782DR	296-23802-1-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6.00	4.90	4.40
SN65HVD1782DR	296-23802-2-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6650.00/2,500		
SN65HVD1782P	296-23873-5-ND	70V Fault-Protected RS-485 Transceiver	8-PDip	6.72	5.40	4.92
SN65HVD1785D	296-23346-5-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6.30	5.07	4.62
SN65HVD1785P	296-23803-5-ND	70V Fault-Protected RS-485 Transceiver	8-Dip	6.30	5.07	4.62
SN65HVD1786P	296-23804-5-ND	70V Fault-Protected RS-485 Transceiver	8-Dip	6.30	5.07	4.62
SN65HVD1786D	296-23347-5-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6.30	5.07	4.62
SN65HVD1787D	296-23348-5-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6.30	5.07	4.62
SN65HVD1787P	296-24075-5-ND	70V Fault-Protected RS-485 Transceiver	8-DIP	6.72	5.40	4.92
SN65HVD1791D	296-23417-5-ND	70V Fault-Protected RS-485 Transceiver	14-SOIC	6.44	5.18	4.72
SN65HVD1792D	296-23961-5-ND	70V Fault-Protected RS-485 Transceiver	14-SOIC	6.44	5.18	4.72
SN65HVD1793D	296-23962-5-ND	70V Fault-Protected RS-485 Transceiver	14-SOIC	6.38	5.23	4.72
SN65HVD1794D	296-23963-5-ND	70V Fault-Protected RS-485 Transceiver	8-SOIC	6.58	5.29	4.82
SN65HVD1794P	296-24853-5-ND	70V Fault-Protected RS-485 Transceiver* ***NEW!***	8-Dip	5.46	4.39	4.00
SN65HVD3080EDGSR	296-21410-1-ND	200Kbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3.03	2.48	2.23
SN65HVD3080EDGSR	296-21410-2-ND	200Kbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3357.50/2,500		
SN65HVD3082ED	296-14640-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.73	2.20	1.98
SN65HVD3082EDGK	296-17929-ND	Low Power RS-485 Transceiver	8-MSOP	3.16	2.55	2.32
SN65HVD3082EP	296-15382-5-ND	Low Power RS-485 Transceiver	8-Dip	2.73	2.20	1.98
SN65HVD3083EDGSR	296-21411-1-ND	1Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3.03	2.48	2.23
SN65HVD3083EDGSR	296-21411-2-ND	1Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3357.50/2,500		
SN65HVD3085ED	296-17170-5-ND	Low Power RS-485 Transceiver	8-SOIC	3.01	2.43	2.19
SN65HVD3085EDGK	296-17171-5-ND	Low Power RS-485 Transceiver	8-MSOP	3.42	2.75	2.51
SN65HVD3085EDR	296-26345-1-ND	Low Power RS-485 Transcvr.* ***NEW!***	8-SOIC	2.94	2.27	2.06
SN65HVD3085EDR	296-26345-2-ND	Low Power RS-485 Transcvr.* ***NEW!***	8-SOIC	2835.00/2,500		
SN65HVD3086ED	296-25637-5-ND	20Mbps, Low Power RS-485 Full Duplex Driver/Receiver* ***NEW!***	14-SOIC	3.89	3.13	2.85
SN65HVD3086EDGSR	296-21412-1-ND	20Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3.39	2.77	2.49
SN65HVD3086EDGSR	296-21412-2-ND	20Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3757.50/2,500		
SN65HVD3088ED	296-17172-5-ND	Low Power RS-485 Transceiver	8-SOIC	3.05	2.46	2.24
SN65HVD3088EDGK	296-17173-5-ND	Low Power RS-485 Transceiver	8-MSOP	3.75	3.02	2.75
SN65HVDA195QDRQ1	296-24821-1-ND	LIN and MOST ECL PHY Interface* ***NEW!***	8-SOIC	2.28	1.76	1.60
SN65HVDA195QDRQ1	296-24821-2-ND	LIN and MOST ECL PHY Interface* ***NEW!***	8-SOIC	2195.00/2,500		
SN65HVDA540QDR	296-24822-1-ND	5V CAN Transceiver* ***NEW!***	8-SOIC	2.45	1.89	1.72
SN65HVDA540QDR	296-24822-2-ND	5V CAN Transceiver* ***NEW!***	8-SOIC	2362.50/2,500		
SN65HVDA541QDR	296-24823-1-ND	5V CAN Transceiver w/Standby* ***NEW!***	8-SOIC	3.15	2.43	2.21
SN65HVDA541QDR	296-24823-2-ND	5V CAN Transceiver w/Standby* ***NEW!***	8-SOIC	3037.50/2,500		
SN65HVDA1040AQDRQ1	296-25800-1-ND	High Speed CAN Transceiver* ***NEW!***	8-SOIC	2.45	1.89	1.72
SN65HVDA1040AQDRQ1	296-25800-2-ND	High Speed CAN Transceiver* ***NEW!***	8-SOIC	2362.50/2,500		
SN65HVDA1050AQDRQ1	296-25836-1-ND	High Speed CAN Transceiver* ***NEW!***	8-SOIC	1.93	1.49	1.35
SN65HVDA1050AQDRQ1	296-25836-2-ND	High Speed CAN Transceiver* ***NEW!***	8-SOIC	1857.50/2,500		
SN65LBC031D	296-9700-5-ND	High Speed CAN Transceiver	8-SOIC	4.20	3.38	3.08
SN65LBC031DG4	296-22063-5-ND	High Speed CAN Transceiver	8-SOIC	4.20	3.38	3.08
SN65LBC031QD	296-9701-5-ND	High Speed CAN Transceiver	8-SOIC	4.90	3.94	3.59
SN65LBC170DB	296-9702-5-ND	Triple Differential Transceiver	16-SSOP	10.40	8.53	7.70
SN65LBC170DW	296-9703-5-ND	Triple Differential Transceiver	20-SOIC	10.40	8.53	7.70
SN65LBC171DB	296-9704-5-ND	Triple Differential Transceiver	20-SSOP	12.65	10.64	9.78
SN65LBC171DW	296-9705-5-ND	Triple Differential Transceiver	20-SOIC	12.65	10.64	9.78
SN65LBC172A16DW	296-15174-5-ND	Quad LP Differential Line Driver	16-SOIC	6.10	4.91	4.47
SN65LBC172ADW	296-9706-5-ND	Quad LP Differential Line Driver	20-SOIC	6.10	4.91	4.47
SN65LBC172AN	296-12283-5-ND	Quad LP Differential Line Driver	16-Dip	6.10	4.91	4.47
SN65LBC172DW	296-9707-5-ND	Quad LP Differential Line Driver	20-SOIC	5.40	4.35	3.96
SN65LBC172N	296-9708-5-ND	Quad LP Differential Line Driver	16-Dip	5.40	4.35	3.96
SN65LBC173AD	296-9709-5-ND	Quad LP Differential Line Receiver	16-SOIC	4.59	3.69	3.37
SN65LBC173AN	296-9710-5-ND	Quad LP Differential Line Receiver	16-Dip	4.59	3.69	3.37
SN65LBC173D	296-9711-5-ND	Quad LP Differential Line Receiver	16-SOIC	3.53	2.84	2.59
SN65LBC173N	296-9712-5-ND	Quad LP Differential Line Receiver	16-Dip	3.53	2.84	2.59
SN65LBC174A16DW	296-15175-5-ND	Quad RS-485 Differential Line Driver	16-SOIC	6.94	5.58	5.09
SN65LBC174ADW	296-9713-5-ND	Quad RS-485 Differential Line Driver	20-SOIC	6.94	5.58	5.09
SN65LBC174AMDWREP	296-22240-1-ND	Quad RS-485 Differential Line Driver	20-SOIC	11.26	9.35	8.50
SN65LBC174AN	296-12284-5-ND	Quad RS-485 Differential Line Driver	16-Dip	6.94	5.58	5.09
SN65LBC174DW	296-9714-5-ND	Quad RS-485 Differential Line Driver	20-SOIC	5.77	4.64	4.23
SN65LBC174N	296-9715-5-ND	Quad RS-485 Differential Line Driver	16-Dip	5.77	4.64	4.23
SN65LBC175AD	296-9716-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	4.34	3.49	3.18
SN65LBC175AN	296-13124-5-ND	Quad RS-485 Differential Line Receiver	16-Dip	4.34	3.49	3.18
SN65LBC175D	296-9717-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	3.30	2.66	2.42
SN65LBC175DW	296-12460-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	3.30	2.66	2.42
SN65LBC175N	296-9718-5-ND	Quad RS-485 Differential Line Receiver	16-Dip	3.30	2.66	2.42
SN65LBC176AD	296-9719-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	3.16	2.55	2.32
SN65LBC176AP	296-9720-5-ND	Quad LP Differential Bus Transceiver	8-Dip	3.16	2.55	2.32
SN65LBC176AQD	296-9721-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.83	2.28	2.08
SN65LBC176D	296-9722-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.73	2.20	1.98
SN65LBC176P	296-9723-5-ND	Quad LP Differential Bus Transceiver	8-Dip	2.73	2.20	1.98
SN65LBC176QD	296-9724-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.48	2.00	1.80
SN65LBC179AD	296-9725-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.83	2.28	2.08
SN65LBC179AP	296-9726-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.83	2.28	2.08

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LBC179D	296-9727-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.85	2.30	2.07
SN65LBC179P	296-9728-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.85	2.30	2.07
SN65LBC179QDRG4	296-22544-1-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.80	2.16	1.96
SN65LBC179QDRG4	296-22544-2-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2700.00/2,500		
SN65LBC180AD	296-9729-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	4.23	3.40	3.10
SN65LBC180AN	296-9730-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	4.23	3.40	3.10
SN65LBC180D	296-9731-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	3.16	2.55	2.32
SN65LBC180N	296-9732-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	3.16	2.55	2.32
SN65LBC180RSAT	296-19550-1-ND	LP Differential Line Driver/Rcvr. Pairs	16-VQFN	3.39	2.77	2.49
SN65LBC182D	296-12167-5-ND	Differential Bus Transceiver	8-SOIC	2.94	2.37	2.16
SN65LBC182P	296-12734-5-ND	Differential Bus Transceiver	8-Dip	2.94	2.37	2.16
SN65LBC184D	296-9733-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	4.34	3.49	3.18
SN65LBC184P	296-2343-5-ND	Differential Xcvr. with TVS Protection	8-Dip	4.34	3.49	3.18
SN65176BD	296-9693-5-ND	Differential Bus Transceiver	8-SOIC	.96	.75	.65
SN65176BP	296-1415-5-ND	Differential Bus Transceiver	8-Dip	.88	.69	.60
SN75HVD08D	296-26655-5-ND	3.3/5.5V RS-485 Transceiver* ***NEW!***	8-SOIC	5.04	4.05	3.69
SN75HVD10D	296-26656-5-ND	3.3V Differential Transceiver* ***NEW!***	8-SOIC	4.23	3.40	3.10
SN75HVD11D	296-26657-5-ND	3.3V Differential Transceiver* ***NEW!***	8-SOIC	4.00	3.22	2.94
SN75HVD12DR	296-26658-1-ND	3.3V Differential Transceiver* ***NEW!***	8-SOIC	3.54	2.90	2.60
SN75HVD12DR	296-26658-2-ND	3.3V Differential Transceiver* ***NEW!***	8-SOIC	3922.50/2,500		
SN75HVD12P	296-14047-5-ND	3.3V RS-485 Transceiver	8-Dip	4.00	3.22	2.94
SN75HVD1176D	296-15346-5-ND	Profibus RS-485 Transceiver	8-SOIC	4.54	3.65	3.33
SN75HVD3082EDR	296-26659-1-ND	LP RS-485 Transceiver* ***NEW!***	8-SOIC	2.49	1.92	1.74
SN75HVD3082EDR	296-26659-2-ND	LP RS-485 Transceiver* ***NEW!***	8-SOIC	2397.50/2,500		
SN75HVD3082EP	296-26660-5-ND	LP RS-485 Transceiver* ***NEW!***	8-Dip	2.60	2.10	1.89
SN75LBC031D	296-6864-5-ND	High Speed Transceiver	8-SOIC	4.20	3.38	3.08
SN75LBC172DW	296-6865-5-ND	Quad LP Differential Line Driver	20-SOIC	5.07	4.08	3.72
SN75LBC172N	296-6866-5-ND	Quad LP Differential Line Driver	16-Dip	5.07	4.08	3.72
SN75LBC173D	296-6867-5-ND	Quad LP Differential Line Receiver	16-SOIC	3.30	2.66	2.42
SN75LBC173N	296-6868-5-ND	Quad LP Differential Line Receiver	16-Dip	3.30	2.66	2.42
SN75LBC174ADW	296-26661-5-ND	Quad RS-485 Diff. Line Driver* ***NEW!***	20-SOIC	6.36	5.11	4.66
SN75LBC174DW	296-6869-5-ND	Quad LP Differential Line Driver	20-SOIC	5.40	4.35	3.96
SN75LBC174N	296-6870-5-ND	Quad LP Differential Line Driver	16-Dip	5.40	4.35	3.96
SN75LBC175AD	296-26662-5-ND	Quad RS-485 Differential Line Receiver* ***NEW!***	16-SOIC	4.00	3.22	2.94
SN75LBC175D	296-6871-5-ND	Quad LP Differential Line Receiver	16-SOIC	3.05	2.46	2.24
SN75LBC175N	296-6872-5-ND	Quad LP Differential Line Receiver	16-Dip	3.05	2.46	2.24
SN75LBC176AD	296-6873-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.94	2.37	2.16
SN75LBC176ADR	296-26663-1-ND	Differential Bus Transceiver* ***NEW!***	8-SOIC	3.22	2.49	2.26
SN75LBC176ADR	296-26663-2-ND	Differential Bus Transceiver* ***NEW!***	8-SOIC	3105.00/2,500		
SN75LBC176AP	296-6874-5-ND	Differential Bus Transceiver	8-Dip	2.94	2.37	2.16
SN75LBC176D	296-1279-5-ND	Differential Bus Transceiver	8-SOIC	2.60	2.10	1.89
SN75LBC176DR	296-1279-1-ND	Differential Bus Transceiver	8-SOIC	2.35	1.81	1.65
SN75LBC176DR	296-1279-2-ND	Differential Bus Transceiver	8-SOIC	2261.25/2,500		
SN75LBC176P	296-6875-5-ND	Differential Bus Transceiver	8-Dip	2.60	2.10	1.89
SN75LBC179AD	296-6876-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.85	2.30	2.07
SN75LBC179AP	296-6877-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.85	2.30	2.07
SN75LBC179D	296-6878-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.60	2.10	1.89
SN75LBC179P	296-6879-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.60	2.10	1.89
SN75LBC180AD	296-6880-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	3.89	3.13	2.85
SN75LBC180AN	296-6881-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	3.89	3.13	2.85
SN75LBC180D	296-6882-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.94	2.37	2.16
SN75LBC180N	296-6883-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.94	2.37	2.16
SN75LBC182D	296-11656-5-ND	Differential Bus Transceiver	8-SOIC	2.94	2.37	2.16
SN75LBC184D	296-2364-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	3.92	3.15	2.87
SN75LBC184P	296-6884-5-ND	Differential Xcvr. with TVS Protection	8-Dip	3.92	3.15	2.87
SN75LBC241DW	296-6886-5-ND	Low Power LinBiCMOS Multiple Drivers and Receivers	28-SOIC	4.90	3.94	3.59
SN75LBC771DW	296-6887-5-ND	GeoPort™ Transceiver	20-SOIC	3.78	3.04	2.77
SN75LBC776DW	296-6890-5-ND	Single-Chip GeoPort™ Transceiver	20-SOIC	7.75	6.36	5.74
SN75LBC777DW	296-6891-5-ND	Single-Chip Geoport/AppleTalk Xcvr.	20-SOIC	5.60	4.50	4.10
SN75LBC968DL	296-6894-5-ND	9-Channel Bus Transceiver with Active Termination	56-SSOP	23.20	19.72	18.27
SN75LVCP412ARTJT	296-25545-1-ND	2-Ch. SATA 3Gbps Redriver* ***NEW!***	20-QFN	5.70	4.66	4.18
SN75LVCP412ARTJT	296-25545-2-ND	2-Ch. SATA 3Gbps Redriver* ***NEW!***	20-QFN	878.75/250		
SN75107AD	296-6799-5-ND	Dual Line Receiver	14-SOIC	2.33	1.88	1.69
SN75107AN	296-6800-5-ND	Dual Line Receiver	14-Dip	2.17	1.75	1.58
SN75107BD	296-6802-5-ND	Dual Line Receiver	14-SOIC	.96	.75	.65
SN75107BDR	296-14946-1-ND	Dual Line Receiver	14-SOIC	.88	.68	.60
SN75107BN	296-6803-5-ND	Dual Line Receiver	14-Dip	.88	.69	.60
SN75110AD	296-6804-5-ND	Dual Line Driver	14-SOIC	.96	.75	.65
SN75110AN	296-6805-5-ND	Dual Line Driver	14-Dip	.88	.69	.60
SN75112D	296-6806-5-ND	Dual Line Driver	14-SOIC	.96	.75	.65
SN75112N	296-6807-5-ND	Dual Line Driver	14-Dip	1.27	1.02	.89
SN75113N	296-6809-5-ND	Dual Differential Line Driver	16-Dip	2.79	2.25	2.03
SN75114N	296-6811-5-ND	Dual Differential Line Driver	16-Dip	2.79	2.25	2.03
SN75115D	296-6812-5-ND	Dual Differential Line Receiver	16-SOIC	2.80	2.25	2.05
SN75115N	296-6813-5-ND	Dual Differential Line Receiver	16-Dip	2.79	2.25	2.03
SN75116N	296-6814-5-ND	Differential Line Transceiver	16-Dip	5.74	4.62	4.21
SN75117P	296-6820-5-ND	Differential Line Transceiver	8-Dip	5.74	4.62	4.21
SN75118N	296-6821-5-ND	Differential Line Transceiver	16-Dip	5.74	4.62	4.21
SN75119P	296-6822-5-ND	Differential Line Transceiver	8-Dip	5.74	4.62	4.21
SN75121N	296-6823-5-ND	Dual Line Driver	16-Dip	3.02	2.43	2.22
SN75123N	296-6825-5-ND	Dual Line Driver	16-Dip	3.02	2.43	2.22
SN75124N	296-6826-5-ND	Triple Line Receiver	16-Dip	3.02	2.43	2.22
SN75138N	296-6828-5-ND	Quad Bus Transceiver	16-Dip	2.79	2.25	2.03
SN75140P	296-12184-5-ND	Dual Line Receiver	8-Dip	2.23	1.80	1.62
SN75150D	296-6830-5-ND	Dual Line Driver	8-SOIC	1.54	1.24	1.08
SN75150DR	296-14948-1-ND	Dual Line Driver	8-SOIC	1.52	1.20	1.08
SN75150P	296-6831-5-ND	Dual Line Driver	8-Dip	1.40	1.12	.98
SN75154D	296-6832-5-ND	Quad Differential Line Receiver	16-SOIC	1.54	1.24	1.08
SN75154N	296-6833-5-ND	Quad Differential Line Receiver	16-Dip	1.40	1.12	.98
SN75155D	296-6835-5-ND	Line Driver and Receiver	8-SOIC	1.54	1.24	1.08
SN75155P	296-6836-5-ND	Line Driver and Receiver	8-Dip	1.40	1.12	.98
SN75157D	296-6837-5-ND	Dual Differential Line Receiver	8-SOIC	2.94	2.37	2.16
SN75157P	296-6838-5-ND	Dual Differential Line Receiver	8-Dip	3.22	2.59	2.36
SN75158D	296-6839-5-ND	Dual Differential Line Driver	8-SOIC	2.80	2.25	2.05
SN75158P	296-6840-5-ND	Dual Differential Line Driver	8-Dip	3.22	2.59	2.36
SN75158PSR	296-6841-1-ND	Dual Differential Line Driver	8-SOP	3.00	2.45	2.20
SN75159D	296-6842-5-ND	Dual Differential Line Driver	14-SOIC	4.06	3.27	2.98
SN75159N	296-6843-5-ND	Dual Differential Line Driver	14-Dip	4.48	3.60	3.28
SN75160BDW	296-6844-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.80	2.25	2.05
SN75160BDWR	296-14950-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.80	2.16	1.96
SN75160BDWR	296-14950-2-ND	Octal GP Interface Bus Transceiver	20-SOIC	2160.00/2,000		
SN75160BN	296-6845-5-ND	Octal GP Interface Bus Transceiver	20-Dip	2.79	2.25	2.03
SN75161BDW	296-6846-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.80	2.25	2.05
SN75161BDWR	296-14951-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.80	2.16	1.96
SN75161BDWR	296-14951-2-ND	Octal GP Interface Bus Transceiver	20-SOIC	2160.00/2,000		
SN75161BN	296-6847-5-ND	Octal GP Interface Bus Transceiver	20-Dip	2.79	2.25	2.03
SN75162BDW	296-6848-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.80	2.25	2.05
SN75172DWR	296-14952-1-ND	Quad Differential Line Driver	20-SOIC	2.80	2.16	1.96
SN75172N	296-6850-5-ND	Quad Differential Line Driver	16-Dip	2.79	2.25	2.03
SN751730D	296-6851-5-ND	Triple Line Driver/Receiver	16-SOIC	5.54	4.46	4.06
SN751730N	296-6852-5-ND	Triple Line Driver/Receiver	16-Dip	5.04	4.05	3.69
SN75173D	296-6853-5-ND	Quad Differential Line Receiver	16-SOIC	2.80	2.25	2.05
SN75173DR	296-14953-1-ND	Quad Differential Line Receiver	16-SOIC	2.80	2.16	1.96
SN75173DR	296-14953-2-ND	Quad Differential Line Receiver	16-SOIC	2700.00/2,500		
SN75173N	296-6854-5-ND	Quad Differential Line Receiver	16-Dip	2.79	2.25	2.03
SN75174DWR	296-6855-1-ND	Quad Differential Line Driver	20-SOIC	2.80	2.16	1.96
SN75174DWR	296-6855-2-ND	Quad Differential Line Driver	20-SOIC	2160.00/2,000		
SN75174N	296-1735-5-ND	Quad Differential Line Driver	16-Dip	2.80	2.25	2.05
SN75175D	296-6856-5-ND	Quad Differential Line Receiver	16-SOIC	2.80	2.25	2.05
SN75175DR	296-14954-1-ND	Quad Differential Line Receiver	16-SOIC	2.80	2.16	1.96
SN75175N	296-1736-5-ND	Quad Differential Line Receiver	16-Dip	2.79	2.25	2.03
SN75176AD	296-6857-5-ND	Differential Bus Transceiver	8-SOIC	.96	.75	.65
SN75176ADR	296-14955-1-ND	Differential Bus Transceiver	8-SOIC	.88	.68	.60
SN75176ADR	296-14955-2-ND	Differential Bus Transceiver	8-SOIC	725.00/2,500		
SN75176AP	296-1737-5-ND	Differential Bus Transceiver	8-Dip	.88	.69	.60
SN75176BD	296-1275-5-ND	Differential Bus Transceiver	8-SOIC	.96	.75	.65
SN75176BDR	296-1275-1-ND	Differential Bus Transceiver	8-SOIC	.88	.68	.60
SN75176BDR	296-1275-2-ND	Differential Bus Transceiver	8-SOIC	725.00/2,500		
SN75176BP	296-1739-5-ND	Differential Bus Transceiver	8-Dip	.88	.69	.60
SN75178BP	296-6858-5-ND	Differential Bus Repeaters	8-Dip	3.36	2.70	2.46
SN75179BD	296-6860-5-ND	Differential Driver/Receiver Pair	8-SOIC	1.71	1.38	1.24
SN75179BDR	296-14956-1-ND	Differential Driver/Receiver Pair	8-SOIC	1.63	1.29	1.17
SN75179BP	296-6861-5-ND	Differential Driver/Receiver Pair	8-Dip	1.66	1.33	1.16
SN75182N	296-6862-5-ND	Dual Differential Line Receiver	14-Dip	2.80	2.25	2.05
SN75183N	296-6863-5-ND	Quad Differential Line Driver	14-Dip	2.79	2.25	2.03
SN75976A1DGG	296-9925-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	25.50	21.68	20.09
SN75976A1DL	296-9926-5-ND	9-Channel RS-485 Diff. Transceiver	56-SSOP	25.50	21.68	20.09
SN75976A2DGG	296-2363-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	33.60	28.56	26.46
SN751177N	296-6816-5-ND	Dual Differential Driver/Receiver	16-Dip	2.79	2.25	2.03
SN751177NSR	296-6817-1-ND	Dual Differential Driver/Receiver	16-SOP	3.15	2.43	2.21
SN751177NSR	296-6817-2-ND	Dual Differential Driver/Receiver	16-SOP	2430.00/2,000		
SN751178N	296-6818-5-ND	Dual Differential Driver/Receiver	16-Dip	2.79	2.25	2.03
SN751178NSR	296-6819-1-ND	Dual Differential Driver/Receiver	16-SOP	3.15	2.43	2.21
SN751178NSR	296-6819-2-ND	Dual Differential Driver/Receiver	16-SOP	2430.00/2,000		
TL3695P	296-10172-5-ND	Differential Bus Transceiver	8-Dip	2.33	1.88	1.69
UA9637ACD	296-11149-5-ND	Dual Differential Line Receiver	8-SOIC	1.18	.95	.83
UA9639CP	296-11150-5-ND	Dual Differential Line Receiver	8-Dip	1.05	.84	.74
		RS-232				
GD75232DBR	296-6947-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	.90	.70	.62
GD75232DBR	296-6947-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	592.00/2,000		
GD75232DW	296-6948-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.82	.64	.56
GD75232PWR	296-6950-1-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	.82	.64	.57
GD75232PWR	296-6950-2-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	542.00/2,000		
GD75323DW	296-6951-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.97	.78	.68
LT1030CD	296-9589-5-ND	Quad Low Power Line Driver	14-SOIC	3.08	2.48	2.26
LT1030CN	296-1401-5-ND	Quad Low Power Line Driver	14-Dip	2.80	2.25	2.05
MAX202CDR	296-18480-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.14	.90	.81
MAX202CDR	296-18480-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1050.00/2,500		
MAX202CDWR	296-18481-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.14	.90	.81
MAX202CDWR	296-18481-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	840.00/2,000		
MAX202CPWR	296-18482-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	1.14	.90	.81
MAX202CPWR	296-18482-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	840.00/2,000		
MAX202IDR	296-18483-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.14	.90	.81
MAX202IDR	296-18483-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1050.00/2,500		
MAX202IDWR	296-18484-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.14	.90	.81
MAX202IDWR	296-18484-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	840.00/2,000		
MAX202IPWR	296-18485-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	1.14	.90	.81
MAX202IPWR	296-18485-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	840.00/2,000		
MAX208CDB	296-26137-5-ND	5V Multich. RS-232 Line Driver/Receiver* ***NEW!***	24-SSOP	2.79	2.25	2.03
MAX208CDBR	296-18490-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SSOP	2.63	2.03	1.84
MAX208CDBR	296-18490-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SSOP	2026.00/2,000		
MAX208CDWR	296-18491-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SOIC	2.45	1.89	1.72
MAX208CDWR	296-18491-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SOIC	1890.00/2,000		
MAX208IDBR	296-18492-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SSOP	2.63	2.03	1.84
MAX208IDBR	296-18492-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SSOP	2026.00/2,000		
MAX208IDWR	296-18493-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SOIC	2.45	1.89	1.72
MAX208IDWR	296-18493-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	24-SOIC	1890.00/2,000		
MAX211CDBR	296-18494-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	2.45	1.89	1.72
MAX211CDBR	296-18494-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	1890.00/2,000		
MAX211IDBR	296-15170-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	2.45	1.89	1.72
MAX211IDBR	296-15170-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	1890.00/2,000		
MAX213CDBR	296-19834-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	2.10	1.62	1.47
MAX213CDBR	296-19834-2-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	1620.00/2,000		
MAX213IDBR	296-19835-1-ND	5V Multich. RS-232 Line Driver/Rcvr.	28-SSOP	2.28	1.76	1.60
MAX222IDWR	296-17256-1-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	2.45	1.89	1.72
MAX232D	296-6936-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	1.26	1.01	.89
MAX232DR	296-14619-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	1.14	.90	.81
MAX232DR	296-14619-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	1050.00/2,500		
MAX232DW	296-6937-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	1.26	1.01	.89
MAX232DWR	296-14620-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	1.14	.90	.81
MAX232DWR	296-14620-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	840.00/2,000		
MAX232ECDR	296-26138-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
MAX232ECDR	296-26138-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1120.00/2,500		
MAX232ECN	296-26139-5-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-Dip	1.34	1.08	.95
MAX232EIDR	296-26140-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
MAX232EIDR	296-26140-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1120.00/2,500		
MAX232ID	296-6938-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	1.26	1.01	.89
MAX232IDW	296-6939-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	1.26	1.01	.89
MAX232IDWR	296-14621-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	1.14	.90	.81
MAX232IDWR	296-14621-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	840.00/2,000		

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TEXAS INSTRUMENTS **Digi-Reel®** *(Cont.)*

DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX232IN	296-6940-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	1.16	.93	.81
MAX232N	296-1402-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	1.16	.93	.81
MAX232NSR	296-15895-1-ND	Dual EIA-232 Driver/Receiver	16-SOP	1.25	.99	.90
MAX232NSR	296-15895-2-ND	Dual EIA-232 Driver/Receiver	16-SOP	924.00/2,000		
MAX3221CDBR	296-9593-1-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	2.28	1.76	1.60
MAX3221CDBR	296-9593-2-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1756.00/2,000		
MAX3221CPWR	296-9594-1-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1.93	1.49	1.35
MAX3221CPWR	296-9594-2-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1486.00/2,000		
MAX3221ECDBR	296-19824-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	1.93	1.49	1.35
MAX3221ECDBR	296-19824-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	1486.00/2,000		
MAX3221ECPWR	296-19825-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	1.93	1.49	1.35
MAX3221ECPWR	296-19825-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	1486.00/2,000		
MAX3221EIDB	296-26145-5-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver* ***NEW!***	16-SSOP	2.33	1.88	1.69
MAX3221EIDBR	296-19826-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	2.28	1.76	1.60
MAX3221EIDBR	296-19826-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	1756.00/2,000		
MAX3221EIPWR	296-19383-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	2.28	1.76	1.60
MAX3221EIPWR	296-19383-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	1756.00/2,000		
MAX3221IDBR	296-9595-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	2.28	1.76	1.60
MAX3221IDBR	296-9595-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	1756.00/2,000		
MAX3221IPWR	296-9596-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	2.28	1.76	1.60
MAX3221IPWR	296-9596-2-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-TSSOP	1756.00/2,000		
MAX3221MDBREP	296-22180-1-ND	3V to 5.5V, 1-Ch. RS-232 Line Driver/ Receiver	16-SSOP	6.81	5.57	5.00
MAX3222CDBR	296-13082-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	3.15	2.43	2.21
MAX3222CDBR	296-13082-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2430.00/2,000		
MAX3222CDWR	296-13083-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
MAX3222CDWR	296-13083-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2160.00/2,000		
MAX3222CPWR	296-13084-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.80	2.16	1.96
MAX3222CPWR	296-13084-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2160.00/2,000		
MAX3222ECDBR	296-19818-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.80	2.16	1.96
MAX3222ECDWR	296-19819-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
MAX3222ECDWR	296-19819-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2160.00/2,000		
MAX3222ECPWR	296-19820-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.80	2.16	1.96
MAX3222ECPWR	296-19820-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2160.00/2,000		
MAX3222EIDBR	296-19823-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	3.15	2.43	2.21
MAX3222EIDBR	296-19823-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2430.00/2,000		
MAX3222EIDWR	296-19821-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	3.15	2.43	2.21
MAX3222EIDWR	296-19821-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2430.00/2,000		
MAX3222EIPWR	296-19822-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	3.15	2.43	2.21
MAX3222EIPWR	296-19822-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2430.00/2,000		
MAX3222IDBR	296-13085-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	3.15	2.43	2.21
MAX3222IDBR	296-13085-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2430.00/2,000		
MAX3222IDWR	296-13086-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	3.15	2.43	2.21
MAX3222IDWR	296-13086-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2430.00/2,000		
MAX3222IPWR	296-13087-1-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	3.15	2.43	2.21
MAX3222IPWR	296-13087-2-ND	3V to 5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2430.00/2,000		
MAX3223CDBR	296-13088-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.80	2.16	1.96
MAX3223CDBR	296-13088-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2160.00/2,000		
MAX3223CDWR	296-13445-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.45	1.89	1.72
MAX3223CDWR	296-13445-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1890.00/2,000		
MAX3223CPW	296-26149-5-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.64	2.13	1.92
MAX3223CPWR	296-13089-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.45	1.89	1.72
MAX3223CPWR	296-13089-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1890.00/2,000		
MAX3223ECDBR	296-19838-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.45	1.89	1.72
MAX3223ECDBR	296-19838-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1890.00/2,000		
MAX3223ECDWR	296-19839-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.45	1.89	1.72
MAX3223ECPW	296-26150-5-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.64	2.13	1.92
MAX3223ECPWR	296-19840-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.45	1.89	1.72
MAX3223ECPWR	296-19840-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1890.00/2,000		
MAX3223EIDBR	296-19841-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.80	2.16	1.96
MAX3223EIDBR	296-19841-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2160.00/2,000		
MAX3223EIDWR	296-19842-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
MAX3223EIPWR	296-19843-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.80	2.16	1.96
MAX3223EIPWR	296-19843-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2160.00/2,000		
MAX3223IDBR	296-13090-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.80	2.16	1.96
MAX3223IDBR	296-13090-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2160.00/2,000		
MAX3223IDWR	296-13091-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
MAX3223IDWR	296-13091-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2160.00/2,000		
MAX3223IPWR	296-13092-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.80	2.16	1.96
MAX3223IPWR	296-13092-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2160.00/2,000		
MAX3227CDBR	296-19848-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2.80	2.16	1.96
MAX3227EIDBR	296-19829-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	3.15	2.43	2.21
MAX3227EIDBR	296-19829-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2430.00/2,000		
MAX3227IDBR	296-19849-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	3.15	2.43	2.21
MAX3232CD	296-23110-5-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.33	1.88	1.69
MAX3232CDBR	296-13093-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2.45	1.89	1.72
MAX3232CDBR	296-13093-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1890.00/2,000		
MAX3232CDR	296-13094-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.10	1.62	1.47
MAX3232CDR	296-13094-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2025.00/2,500		
MAX3232CDWR	296-13095-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.10	1.62	1.47
MAX3232CDWR	296-13095-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1620.00/2,000		
MAX3232CPWR	296-13096-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.10	1.62	1.47
MAX3232CPWR	296-13096-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1620.00/2,000		
MAX3232ECDBR	296-19850-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2.10	1.62	1.47
MAX3232ECDBR	296-19850-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1620.00/2,000		
MAX3232ECDR	296-19851-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.10	1.62	1.47
MAX3232ECDR	296-19851-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2025.00/2,500		
MAX3232ECDWR	296-19852-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.10	1.62	1.47
MAX3232ECDWR	296-19852-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1620.00/2,000		
MAX3232ECPWR	296-19263-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.10	1.62	1.47
MAX3232ECPWR	296-19263-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1620.00/2,000		
MAX3232EIDBR	296-19853-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2.45	1.89	1.72
MAX3232EIDBR	296-19853-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1890.00/2,000		
MAX3232EIDR	296-19752-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.45	1.89	1.72
MAX3232EIDR	296-19752-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2362.50/2,500		
MAX3232EIDWR	296-19854-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.45	1.89	1.72
MAX3232EIDWR	296-19854-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1890.00/2,000		
MAX3232EIPWR	296-19436-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
MAX3232EIPWR	296-19436-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1890.00/2,000		
MAX3232EIPWRQ1	296-23467-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
MAX3232EIPWRQ1	296-23467-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1890.00/2,000		
MAX3232IDBR	296-13097-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	2.45	1.89	1.72
MAX3232IDBR	296-13097-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1890.00/2,000		
MAX3232IDR	296-13098-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.45	1.89	1.72
MAX3232IDR	296-13098-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2362.50/2,500		
MAX3232IDWR	296-13099-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.45	1.89	1.72
MAX3232IDWR	296-13099-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1890.00/2,000		
MAX3232IPWR	296-13100-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
MAX3232IPWR	296-13100-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1890.00/2,000		
MAX3237ECPWR	296-19770-1-ND	3V to 5.5V RS-232 Line Driver/Rcvr.	28-TSSOP	2.98	2.30	2.09
MAX3237ECPWR	296-19770-2-ND	3V to 5.5V RS-232 Line Driver/ Rcvr.	28-TSSOP	2296.00/2,000		
MAX3237EIDBR	296-19801-1-ND	3V to 5.5V RS-232 Line Driver/ Rcvr.	28-SSOP	3.33	2.57	2.33
MAX3237EIDBR	296-19801-2-ND	3V to 5.5V RS-232 Line Driver/ Rcvr.	28-SSOP	2566.00/2,000		
MAX3237EIPWR	296-19771-1-ND	3V to 5.5V RS-232 Line Driver/ Rcvr.	28-TSSOP	3.33	2.57	2.33
MAX3237EIPWR	296-19771-2-ND	3V to 5.5V RS-232 Line Driver/ Rcvr.	28-TSSOP	2566.00/2,000		

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(Continued)

DATA TRANSMISSION

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3238CDBR	296-9597-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.98	2.30	2.09
MAX3238CDBR	296-9597-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2296.00/2,000		
MAX3238CPWR	296-9598-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.63	2.03	1.84
MAX3238CPWR	296-9598-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2026.00/2,000		
MAX3238EIDWR	296-19815-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	2.98	2.30	2.09
MAX3238IDBG4Q1	296-24418-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	3.00	2.45	2.20
MAX3238IDBG4Q1	296-24418-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2660.00/2,000		
MAX3238IDBR	296-9599-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.98	2.30	2.09
MAX3238IDBR	296-9599-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2296.00/2,000		
MAX3238IPWR	296-9600-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.98	2.30	2.09
MAX3238IPWR	296-9600-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2296.00/2,000		
MAX3243CDBR	296-6941-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.93	1.49	1.35
MAX3243CDBR	296-6941-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1486.00/2,000		
MAX3243CDWR	296-6942-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.93	1.49	1.35
MAX3243CDWR	296-6942-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	798.00/1,000		
MAX3243CPW	296-6943-5-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.17	1.75	1.58
MAX3243CPWR	296-6943-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.93	1.49	1.35
MAX3243CPWR	296-6943-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1486.00/2,000		
MAX3243ECDBR	296-19806-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.93	1.49	1.35
MAX3243ECDBR	296-19806-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1486.00/2,000		
MAX3243ECDWR	296-19807-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.93	1.49	1.35
MAX3243ECDWR	296-19807-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	797.50/1,000		
MAX3243ECPWR	296-19808-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.93	1.49	1.35
MAX3243ECPWR	296-19808-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1486.00/2,000		
MAX3243EIDBR	296-19811-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.28	1.76	1.60
MAX3243EIDBR	296-19811-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1756.00/2,000		
MAX3243EIDWR	296-19809-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	2.28	1.76	1.60
MAX3243EIDWR	296-19809-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	943.00/1,000		
MAX3243EIPWR	296-19810-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.28	1.76	1.60
MAX3243EIPWR	296-19810-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1756.00/2,000		
MAX3243EIRHBR	296-21508-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-VQFN	2.28	1.76	1.60
MAX3243EIRHBR	296-21508-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-VQFN	2634.00/3,000		
MAX3243IDBR	296-6944-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.28	1.76	1.60
MAX3243IDBR	296-6944-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1756.00/2,000		
MAX3243IDWR	296-6945-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	2.28	1.76	1.60
MAX3243IDWR	296-6945-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	943.00/1,000		
MAX3243IPWR	296-6946-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.28	1.76	1.60
MAX3243IPWR	296-6946-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1756.00/2,000		
MAX3318ECDBR	296-19844-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	3.15	2.43	2.21
MAX3318ECPWR	296-19845-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	3.15	2.43	2.21
MAX3318EIDBR	296-19846-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	3.15	2.58	2.31
MAX3318EIPWR	296-19847-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	3.15	2.58	2.31
MAX3318EIPWR	296-19847-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2794.00/2,000		
MAX3318IPWR	296-20938-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	3.15	2.58	2.31
MAX3386EIDWR	296-19831-1-ND	RS-232 Transceiver	20-SOIC	3.90	3.19	2.86
MAX3386EIPWR	296-19833-1-ND	RS-232 Transceiver	20-TSSOP	3.90	3.19	2.86
MAX3386EIPWR	296-19833-2-ND	RS-232 Transceiver	20-TSSOP	3458.00/2,000		
MC1488N	296-1404-5-ND	Quad Line Driver	14-Dip	.52	.39	.33
MC1489AN	296-9602-5-ND	Quad Line Receiver	14-Dip	.67	.49	.42
MC1489N	296-1405-5-ND	Quad Line Receiver	14-Dip	.67	.49	.42
SN65C1154N	296-11855-5-ND	Quad Low Power Driver/Receiver	20-Dip	2.02	1.63	1.47
SN65C3221DBR	296-13116-1-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.98	2.30	2.09
SN65C3221DBR	296-13116-2-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2296.00/2,000		
SN65C3221EPWR	296-20992-1-ND	3V to 5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	2.63	2.03	1.84
SN65C3221EPWR	296-20992-2-ND	3V to 5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	2026.00/2,000		
SN65C3221IPWRQ1	296-23176-1-ND	3V to 5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	2.80	2.16	1.96
SN65C3221IPWRQ1	296-23176-2-ND	3V to 5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	2160.00/2,000		
SN65C3221IPWRG4Q1	296-24419-1-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.80	2.16	1.96
SN65C3221IPWRG4Q1	296-24419-2-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2160.00/2,000		
SN65C3221PWR	296-13117-1-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.80	2.16	1.96
SN65C3221PWR	296-13117-2-ND	3V to 5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2160.00/2,000		
SN65C3222DBR	296-15371-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3.00	2.45	2.20
SN65C3222EDWR	296-20994-1-ND	3V to 5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2.98	2.30	2.09
SN65C3222EDWR	296-20994-2-ND	3V to 5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2296.00/2,000		
SN65C3223EPWR	296-20998-1-ND	3V to 5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2.98	2.30	2.09
SN65C3223EPWR	296-20998-2-ND	3V to 5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2295.00/2,000		
SN65C3223PWR	296-13488-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3.15	2.43	2.21
SN65C3223PWR	296-13488-2-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2430.00/2,000		
SN65C3232D	296-26332-5-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.95	2.38	2.14
SN65C3232DBR	296-15374-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.98	2.30	2.09
SN65C3232DR	296-15375-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2.80	2.16	1.96
SN65C3232EDBR	296-20999-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.63	2.03	1.84
SN65C3232EDR	296-21000-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2.63	2.03	1.84
SN65C3232EDR	296-21000-2-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2532.50/2,500		
SN65C3232EDWR	296-21001-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2.63	2.03	1.84
SN65C3232EPWR	296-21002-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.63	2.03	1.84
SN65C3232EPWR	296-21002-2-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2025.00/2,000		
SN65C3232PW	296-26333-5-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.95	2.38	2.14
SN65C3232PWR	296-15377-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.80	2.16	1.96
SN65C3232PWR	296-15377-2-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2160.00/2,000		
SN65C3243DBR	296-13120-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3.30	2.70	2.42
SN65C3243DBR	296-13120-2-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2926.00/2,000		
SN65C3243PWR	296-13122-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.47	2.68	2.43
SN65C3243PWR	296-13122-2-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	2674.00/2,000		
SN65C23243DGGR	296-13114-1-ND	3V to 5.5V, Dual RS-232 Port	48-TSSOP	6.90	5.64	5.06
SN75C185DW	296-1753-5-ND	Low Power Multiple Driver/Receiver	20-SOIC	2.33	1.88	1.69
SN75C185DWR	296-14972-1-ND	Low Power Multiple Driver/Receiver	20-SOIC	2.10	1.62	1.47
SN75C185DWR	296-14972-2-ND	Low Power Multiple Driver/Receiver	20-SOIC	1620.00/2,000		
SN75C185N	296-9974-5-ND	Low Power Multiple Driver/Receiver	20-Dip	2.17	1.75	1.58
SN75C188D	296-6965-5-ND	Quad Low Power Line Driver	14-SOIC	.91	.71	.62
SN75C188N	296-1754-5-ND	Quad Low Power Line Driver	14-Dip	.84	.65	.57
SN75C189AD	296-1755-5-ND	Quad Low Power Line Receiver	14-SOIC	.91	.71	.62
SN75C189ADBR	296-6967-1-ND	Quad Low Power Line Receiver	14-SSOP	.92	.72	.63
SN75C189ADR	296-14974-1-ND	Quad Low Power Line Receiver	14-SOIC	.84	.65	.57
SN75C189ADR	296-14974-2-ND	Quad Low Power Line Receiver	14-SOIC	690.00/2,500		
SN75C189AN	296-1756-5-ND	Quad Low Power Line Receiver	14-Dip	.84	.65	.57
SN75C189D	296-6968-5-ND	Quad Low Power Line Receiver	14-SOIC	.91	.71	.62
SN75C189N	296-6969-5-ND	Quad Low Power Line Receiver	14-Dip	.84	.65	.57
SN75C198D	296-6970-5-ND	Quad Low Power Line Driver	14-SOP	5.04	4.05	3.69
SN75C1154DW	296-6958-5-ND	Quad Low Power Driver/Receiver	20-SOIC	2.02	1.63	1.47
SN75C1154N	296-6959-5-ND	Quad Low Power Driver/Receiver	20-Dip	1.86	1.50	1.35
SN75C1167DBR	296-6960-1-ND	Dual Differential Driver/Receiver	16-SSOP	1.75	1.35	1.23
SN75C1167DBR	296-6960-2-ND	Dual Differential Driver/Receiver	16-SSOP	1350.00/2,000		
SN75C1167N	296-6961-5-ND	Dual Differential Driver/Receiver	16-Dip	1.71	1.38	1.24
SN75C1167NSR	296-6962-1-ND	Dual Differential Driver/Receiver	16-SOP	1.93	1.49	1.35
SN75C1167NSR	296-6962-2-ND	Dual Differential Driver/Receiver	16-SOP	1486.00/2,000		
SN75C1168N	296-6963-5-ND	Dual Differential Driver/Receiver	16-Dip	1.86	1.50	1.35
SN75C1168NSR	296-6964-1-ND	Dual Differential Driver/Receiver	16-SOP	2.10	1.62	1.47
SN75C1168NSR	296-6964-2-ND	Dual Differential Driver/Receiver	16-SOP	1620.00/2,000		
SN75C1168PWR	296-14971-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.93	1.49	1.35
SN75C1168PWR	296-14971-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1486.00/2,000		
SN75C1406D	296-12934-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.86	1.50	1.35
SN75C1406DW	296-1751-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.86	1.50	1.35
SN75C1406DWR	296-1751-1-ND	Triple Low Power Driver/Receiver	16-SOIC	1.82	1.44	1.30
SN75C1406N	296-1752-5-ND	Triple Low Power Driver/Receiver	16-Dip	1.71	1.38	1.24
SN75C3221DBR	296-13322-1-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2.80	2.16	1.96
SN75C3221DBR	296-13322-2-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2160.00/2,000		
SN75C3221EDBR	296-21071-1-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2.63	2.03	1.84
SN75C3221EDBR	296-21071-2-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2026.00/2,000		
SN75C3221PWR	296-13323-1-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
SN75C3221PWR	296-13323-2-ND	3V to 5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	1890.00/2,000		
SN75C3222DWR	296-13040-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
SN75C3222DWR	296-13040-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2160.00/2,000		
SN75C3223DWR	296-13500-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2.80	2.16	1.96
SN75C3223PWR	296-13501-1-ND	3V to 5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2.80	2.16	1.96
SN75C3232DBR	296-15614-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.80	2.16	1.96

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN75C3232EDR	296-21080-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	2.63	2.03	1.84
SN75C3232EDR	296-21080-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	2531.25/2,500		
SN75C3232EPWR	296-21082-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-TSSOP	2.63	2.03	1.84
SN75C3232PWR	296-15617-1-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
SN75C3232PWR	296-15617-2-ND	3V to 5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1890.00/2,000		
SN75C3238DBR	296-12743-1-ND	RS-232 Line Driver/Receiver	28-SSOP	3.47	2.68	2.43
SN75C3238DWR	296-13324-1-ND	3V to 5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.15	2.43	2.21
SN75C3238EDWR	296-21084-1-ND	3V to 5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.33	2.57	2.33
SN75C3238EDWR	296-21084-2-ND	3V to 5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1377.50/1,000		
SN75C3243DBR	296-13326-1-ND	3V to 5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3.30	2.70	2.42
SN75C3243DBR	296-13326-2-ND	3V to 5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2926.00/2,000		
SN75C23243DGGR	296-13320-1-ND	3V to 5.5V, Dual RS-232 Port	48-TSSOP	6.90	5.64	5.06
SN75C23243DGGR	296-13320-2-ND	3V to 5.5V, Dual RS-232 Port	48-TSSOP	6118.00/2,000		
SN75LP1185DBR	296-6971-1-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	3.30	2.70	2.42
SN75LP1185DW	296-6972-5-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	3.36	2.70	2.46
SN75LP1185DWR	296-6972-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	3.47	2.68	2.43
SN75LPE185DW	296-1759-5-ND	LP Multiple RS-232 Driver/Receiver	24-SOIC	3.64	2.93	2.67
SN75LV4737ADBR	296-6977-1-ND	Multichannel RS-232 Line Driver/ Receiver with Enable	28-SSOP	5.40	4.41	3.96
SN75LV4737ADBR	296-6977-2-ND	Multichannel RS-232 Line Driver/ Receiver with Enable	28-SSOP	4788.00/2,000		
SN75121NSR	296-13314-1-ND	High Speed Dual Line Driver	16-SOP	3.24	2.65	2.38
SN75154NSR	296-13315-1-ND	Quad Line Receiver	16-SOP	1.67	1.32	1.19
SN75179BPSR	296-26647-1-ND	Diff. Driver and Rcvr. Pair* ***NEW!***	8-SOP	1.80	1.42	1.28
SN75179BPSR	296-26647-2-ND	Diff. Driver and Rcvr. Pair* ***NEW!***	8-SOP	1324.00/2,000		
SN75185DW	296-1740-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.98	.79	.69
SN75185N	296-6953-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	.88	.70	.62
SN75186DW	296-6954-5-ND	Quad Driver/Receiver with Loopback	24-SOIC	4.28	3.45	3.14
SN75188D	296-1276-5-ND	Quad Line Driver	14-SOIC	.62	.46	.39
SN75188DR	296-1276-1-ND	Quad Line Driver	14-SOIC	.66	.47	.40
SN75188DR	296-1276-2-ND	Quad Line Driver	14-SOIC	465.00/2,500		
SN75188N	296-1742-5-ND	Quad Line Driver	14-Dip	.57	.42	.36
SN75188NSR	296-26648-1-ND	Quad Line Driver* ***NEW!***	14-SOP	.66	.47	.40
SN75188NSR	296-26648-2-ND	Quad Line Driver* ***NEW!***	14-SOP	372.00/2,000		
SN75189AD	296-1277-5-ND	Quad Line Receiver	14-SOIC	.68	.51	.44
SN75189AN	296-1744-5-ND	Quad Line Receiver	14-Dip	.63	.47	.40
SN75189ANSR	296-26649-1-ND	Quad Line Receiver* ***NEW!***	14-SOP	.73	.51	.44
SN75189ANSR	296-26649-2-ND	Quad Line Receiver* ***NEW!***	14-SOP	410.00/2,000		
SN75189D	296-1745-5-ND	Quad Line Receiver	14-SOIC	.68	.51	.44
SN75189N	296-6955-5-ND	Quad Line Receiver	14-Dip	.63	.47	.40
SN75196DW	296-6956-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.47	1.18	1.03
SN75196DWR	296-12930-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.44	1.14	1.03
SN75196N	296-6957-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	1.33	1.07	.94
SN751701PSR	296-26646-1-ND	Line Driver and Receiver* ***NEW!***	8-SOP	2.52	1.95	1.77
SN751701PSR	296-26646-2-ND	Line Driver and Receiver* ***NEW!***	8-SOP	1944.00/2,000		
TL145406DWR	296-10140-1-ND	Triple RS-232 Driver/Receiver	16-SOIC	2.10	1.62	1.47
TL145406N	296-10141-5-ND	Triple RS-232 Driver/Receiver	16-Dip	2.02	1.63	1.47
TRS202CDR	296-24986-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1.14	.90	.81
TRS202CDR	296-24986-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1050.00/2,500		
TRS202CDWR	296-24987-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1.14	.90	.81
TRS202CDWR	296-24987-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	840.00/2,000		
TRS202CPWR	296-24988-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-TSSOP	1.14	.90	.81
TRS202CPWR	296-24988-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-TSSOP	840.00/2,000		
TRS202ECDR	296-24783-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.14	.90	.81
TRS202ECDR	296-24783-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1050.00/2,500		
TRS202ECDWR	296-24784-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.14	.90	.81
TRS202ECDWR	296-24784-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	840.00/2,000		
TRS202ECPWR	296-24785-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	1.14	.90	.81
TRS202ECPWR	296-24785-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	840.00/2,000		
TRS202EIDR	296-24786-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.25	.99	.90
TRS202EIDR	296-24786-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1155.00/2,500		
TRS202EIPWR	296-24787-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	1.25	.99	.90
TRS202EIPWR	296-24787-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	924.00/2,000		
TRS202IDR	296-24989-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1.25	.99	.90
TRS202IDR	296-24989-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1155.00/2,500		
TRS202IDWR	296-24990-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	1.25	.99	.90
TRS202IDWR	296-24990-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-SOIC	924.00/2,000		
TRS202IPWR	296-24991-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-TSSOP	1.25	.99	.90
TRS202IPWR	296-24991-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	16-TSSOP	924.00/2,000		
TRS207CDBR	296-24992-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	2.10	1.62	1.47
TRS207CDBR	296-24992-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	1620.00/2,000		
TRS207CDWR	296-24993-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	2.10	1.62	1.47
TRS207CDWR	296-24993-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	1620.00/2,000		
TRS207IDBR	296-24994-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	2.28	1.76	1.60
TRS207IDBR	296-24994-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	1755.00/2,000		
TRS207IDWR	296-24995-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	2.28	1.76	1.60
TRS207IDWR	296-24995-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	1755.00/2,000		
TRS208CDBR	296-24996-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	2.10	1.62	1.47
TRS208CDBR	296-24996-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	1620.00/2,000		
TRS208CDWR	296-24997-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	2.10	1.62	1.47
TRS208CDWR	296-24997-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	1620.00/2,000		
TRS208IDBR	296-24998-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	2.28	1.76	1.60
TRS208IDBR	296-24998-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SSOP	1755.00/2,000		
TRS208IDWR	296-24999-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	2.28	1.76	1.60
TRS208IDWR	296-24999-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	24-SOIC	1755.00/2,000		
TRS211CDBR	296-25000-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	2.10	1.62	1.47
TRS211CDBR	296-25000-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	1620.00/2,000		
TRS211CDWR	296-25001-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	2.10	1.62	1.47
TRS211CDWR	296-25001-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	870.00/1,000		
TRS211IDBR	296-25002-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	2.28	1.76	1.60
TRS211IDBR	296-25002-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	1755.00/2,000		
TRS211IDWR	296-25003-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	2.28	1.76	1.60
TRS211IDWR	296-25003-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	942.50/1,000		
TRS213CDWR	296-25004-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	2.10	1.62	1.47
TRS213CDWR	296-25004-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	870.00/1,000		
TRS213IDBR	296-25005-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	2.28	1.76	1.60
TRS213IDBR	296-25005-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SSOP	1755.00/2,000		
TRS213IDWR	296-25006-1-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	2.28	1.76	1.60
TRS213IDWR	296-25006-2-ND	5V RS-232 Driver/Receiver* ***NEW!***	28-SOIC	942.50/1,000		
TRS222CDWR	296-25007-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	18-SOIC	2.45	1.89	1.72
TRS222CDWR	296-25007-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	18-SOIC	1890.00/2,000		
TRS222IDWR	296-25008-1-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	18-SOIC	2.63	2.03	1.84
TRS222IDWR	296-25008-2-ND	5V Dual RS-232 Driver/Rcvr.* ***NEW!***	18-SOIC	2025.00/2,000		
TRS232DR	296-25009-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.14	.90	.81
TRS232DR	296-25009-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1050.00/2,500		
TRS232DWR	296-25010-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.14	.90	.81
TRS232DWR	296-25010-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	840.00/2,000		
TRS232ECDWR	296-25011-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
TRS232ECDWR	296-25011-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	896.00/2,000		
TRS232ECN	296-24984-5-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-PDip	1.12	.90	.79
TRS232ECPWR	296-23554-1-ND	Dual RS-232 Driver/Receiver	16-TSSOP	1.22	.96	.87
TRS232EIDR	296-25012-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
TRS232EIDR	296-25012-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1120.00/2,500		
TRS232EIDWR	296-25013-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	1.22	.96	.87
TRS232EIDWR	296-25013-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOIC	896.00/2,000		
TRS232EIN	296-24985-5-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-PDip	1.12	.90	.79
TRS232EIPW	296-24384-5-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	1.34	1.08	.95
TRS232EIPWR	296-25014-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	1.22	.96	.87
TRS232EIPWR	296-25014-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	896.00/2,000		
TRS232NSR	296-25015-1-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOP	1.14	.90	.81
TRS232NSR	296-25015-2-ND	Dual RS-232 Driver/Receiver* ***NEW!***	16-SOP	840.00/2,000		
TRS3221CDBR	296-25016-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	1.93	1.49	1.35
TRS3221CDBR	296-25016-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	1486.00/2,000		
TRS3221CPWR	296-25017-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1.93	1.49	1.35
TRS3221CPWR	296-25017-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1485.00/2,000		
TRS3221ECPWR	296-22587-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver	16-TSSOP	1.93	1.49	1.35
TRS3221ECPWR	296-22587-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver	16-TSSOP	1486.00/2,000		
TRS3221IDBR	296-25018-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.28	1.76	1.60
TRS3221IDBR	296-25018-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	1756.00/2,000		
TRS3221IPWR	296-25019-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.28	1.76	1.60
TRS3221IPWR	296-25019-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1756.00/2,000		
TRS3222CDBR	296-25020-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.80	2.16	1.96
TRS3222CDBR	296-25020-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2160.00/2,000		
TRS3222CPWR	296-25021-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.80	2.16	1.96
TRS3222CPWR	296-25021-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2160.00/2,000		
TRS3222ECDWR	296-25022-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.80	2.16	1.96
TRS3222ECDWR	296-25022-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2160.00/2,000		
TRS3222EIDWR	296-25023-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	3.15	2.43	2.21
TRS3222EIDWR	296-25023-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2430.00/2,000		
TRS3222EIPWR	296-22593-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	3.15	2.43	2.21
TRS3222EIPWR	296-22593-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2430.00/2,000		
TRS3222IDBR	296-25024-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	3.15	2.43	2.21
TRS3222IDBR	296-25024-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2430.00/2,000		
TRS3222IPWR	296-25025-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	3.15	2.43	2.21
TRS3222IPWR	296-25025-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2430.00/2,000		
TRS3223ECDBR	296-25026-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.45	1.89	1.72
TRS3223ECDBR	296-25026-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	1890.00/2,000		
TRS3223ECDWR	296-25027-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.45	1.89	1.72
TRS3223ECDWR	296-25027-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	1890.00/2,000		
TRS3223ECPWR	296-25028-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.45	1.89	1.72
TRS3223ECPWR	296-25028-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	1890.00/2,000		
TRS3223EIDBR	296-25029-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.80	2.16	1.96
TRS3223EIDBR	296-25029-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2160.00/2,000		
TRS3223EIDWR	296-25030-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.80	2.16	1.96
TRS3223EIDWR	296-25030-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2160.00/2,000		
TRS3223EIPWR	296-25031-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.80	2.16	1.96
TRS3223EIPWR	296-25031-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2160.00/2,000		
TRS3223QPWRQ1	296-23881-1-ND	3V to 5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.98	2.30	2.09
TRS3223QPWRQ1	296-23881-2-ND	3V to 5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2296.00/2,000		
TRS3227CDBR	296-25032-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.80	2.16	1.96
TRS3227CDBR	296-25032-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2160.00/2,000		
TRS3227ECDBR	296-22594-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver	16-SSOP	2.80	2.16	1.96

TEXAS INSTRUMENTS Digi-Reel® *(Cont.)*

DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TRS3227ECDBR	296-22594-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver	16-SSOP	2160.00/2,000		
TRS3227EIDBR	296-25033-1-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	3.15	2.43	2.21
TRS3227EIDBR	296-25033-2-ND	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2430.00/2,000		
TRS3232CDBR	296-25034-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.10	1.62	1.47
TRS3232CDBR	296-25034-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	1620.00/2,000		
TRS3232CDR	296-25035-1-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.10	1.62	1.47
TRS3232CDR	296-25035-2-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2025.00/2,500		
TRS3232CDWR	296-25036-1-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.10	1.62	1.47
TRS3232CDWR	296-25036-2-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	1620.00/2,000		
TRS3232CPWR	296-25037-1-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.10	1.62	1.47
TRS3232CPWR	296-25037-2-ND	3V to 5.5V MultiChannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1620.00/2,000		
TRS3232ECPWR	296-22596-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.10	1.62	1.47
TRS3232ECPWR	296-22596-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1620.00/2,000		
TRS3232EIDBR	296-25038-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.45	1.89	1.72
TRS3232EIDBR	296-25038-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	1890.00/2,000		
TRS3232EIDR	296-22597-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2.45	1.89	1.72
TRS3232EIDR	296-22597-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2362.50/2,500		
TRS3232EIDWR	296-25039-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.45	1.89	1.72
TRS3232EIDWR	296-25039-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	1890.00/2,000		
TRS3232EIPWR	296-22598-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	2.45	1.89	1.72
TRS3232EIPWR	296-22598-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1890.00/2,000		
TRS3232EQPWRQ1	296-24863-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.45	1.89	1.72
TRS3232EQPWRQ1	296-24863-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1890.00/2,000		
TRS3232IDR	296-25040-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.45	1.89	1.72
TRS3232IDR	296-25040-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2362.50/2,500		
TRS3232IPWR	296-25041-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.45	1.89	1.72
TRS3232IPWR	296-25041-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	1890.00/2,000		
TRS3237ECDBR	296-25042-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2.98	2.30	2.09
TRS3237ECDBR	296-25042-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2295.00/2,000		
TRS3237ECDWR	296-25043-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	2.98	2.30	2.09
TRS3237ECDWR	296-25043-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1232.50/1,000		
TRS3237ECPWR	296-25044-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2.98	2.30	2.09
TRS3237ECPWR	296-25044-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2295.00/2,000		
TRS3237EIDWR	296-25045-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	3.33	2.57	2.33
TRS3237EIDWR	296-25045-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1377.50/1,000		
TRS3237EIPWR	296-25046-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	3.33	2.57	2.33
TRS3237EIPWR	296-25046-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2565.00/2,000		
TRS3238CDBR	296-25047-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2.63	2.03	1.84
TRS3238CDBR	296-25047-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2025.00/2,000		
TRS3238CPWR	296-25048-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2.63	2.03	1.84
TRS3238CPWR	296-25048-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2025.00/2,000		
TRS3238ECDWR	296-25049-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	2.63	2.03	1.84
TRS3238ECDWR	296-25049-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1087.50/1,000		
TRS3238EIDBR	296-22602-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.98	2.30	2.09
TRS3238EIDBR	296-22602-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2296.00/2,000		
TRS3238EIDWR	296-25050-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	2.98	2.30	2.09
TRS3238EIDWR	296-25050-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1233.00/1,000		
TRS3238EIPWR	296-22603-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.98	2.30	2.09
TRS3238EIPWR	296-22603-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2296.00/2,000		
TRS3238IDBR	296-25051-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2.98	2.30	2.09
TRS3238IDBR	296-25051-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2296.00/2,000		
TRS3238IPWR	296-25052-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2.98	2.30	2.09
TRS3238IPWR	296-25052-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2296.00/2,000		
TRS3243CDBR	296-25053-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	1.93	1.49	1.35
TRS3243CDBR	296-25053-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	1486.00/2,000		
TRS3243CPWR	296-25054-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	1.93	1.49	1.35
TRS3243CPWR	296-25054-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	1485.00/2,000		
TRS3243ECDWR	296-25055-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1.93	1.49	1.35
TRS3243ECDWR	296-25055-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	797.50/1,000		
TRS3243ECRHBR	296-21905-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-VQFN	1.93	1.49	1.35
TRS3243ECRHBR	296-21905-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-VQFN	2227.50/3,000		
TRS3243EIDBR	296-22606-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.28	1.76	1.60
TRS3243EIDBR	296-22606-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1756.00/2,000		
TRS3243EIDWR	296-25056-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	2.28	1.76	1.60
TRS3243EIDWR	296-25056-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	943.00/1,000		
TRS3243EIRHBR	296-25057-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	32-QFN	2.28	1.76	1.60
TRS3243EIRHBR	296-25057-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	32-QFN	2634.00/3,000		
TRS3243IDBR	296-25058-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2.28	1.76	1.60
TRS3243IDBR	296-25058-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	1756.00/2,000		
TRS3243IPWR	296-25059-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2.28	1.76	1.60
TRS3243IPWR	296-25059-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	1756.00/2,000		
TRS3253EIRSMR	296-23756-1-ND	RS-232 Transceiver	32-QFN	3.33	2.57	2.33
TRS3253EIRSMR	296-23756-2-ND	RS-232 Transceiver	32-QFN	3849.00/3,000		
TRS3318ECDBR	296-25060-1-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-SSOP	3.15	2.43	2.21
TRS3318ECDBR	296-25060-2-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-SSOP	2430.00/2,000		
TRS3318ECPWR	296-21906-1-ND	2.5V, 460kbps RS-232 Transceiver	20-TSSOP	3.15	2.43	2.21
TRS3318ECPWR	296-21906-2-ND	2.5V, 460kbps RS-232 Transceiver	20-TSSOP	2430.00/2,000		
TRS3318EIDBR	296-25061-1-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-SSOP	3.47	2.68	2.43
TRS3318EIDBR	296-25061-2-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-SSOP	2673.00/2,000		
TRS3318EIPWR	296-25062-1-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-TSSOP	3.47	2.68	2.43
TRS3318EIPWR	296-25062-2-ND	2.5V, 460kbps RS-232 Xcvr.* ***NEW!***	20-TSSOP	2673.00/2,000		
TRS3386ECDWR	296-25063-1-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-SOIC	3.60	2.94	2.64
TRS3386ECDWR	296-25063-2-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-SOIC	3192.00/2,000		
TRS3386ECPWR	296-22608-1-ND	RS-232 Transceiver, Split Supply Pin	20-TSSOP	3.60	2.94	2.64
TRS3386EIDWR	296-25064-1-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-SOIC	3.90	3.19	2.86
TRS3386EIDWR	296-25064-2-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-SOIC	3458.00/2,000		
TRS3386EIPWR	296-25065-1-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-TSSOP	3.90	3.19	2.86
TRS3386EIPWR	296-25065-2-ND	RS-232 Transceiver, Split Supply Pin* ***NEW!***	20-TSSOP	3458.00/2,000		
TRSF23243CDGGR	296-25066-1-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-TSSOP	5.70	4.66	4.18
TRSF23243CDGGR	296-25066-2-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-TSSOP	5054.00/2,000		
TRSF23243CDLR	296-25067-1-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-SSOP	5.70	4.66	4.18
TRSF23243CDLR	296-25067-2-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-SSOP	2660.00/1,000		
TRSF23243IDGGR	296-25068-1-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-TSSOP	7.20	5.88	5.28
TRSF23243IDGGR	296-25068-2-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-TSSOP	6384.00/2,000		
TRSF23243IDLR	296-25069-1-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-SSOP	7.20	5.88	5.28
TRSF23243IDLR	296-25069-2-ND	3V to 5.5V Dual RS-232 Port* ***NEW!***	48-SSOP	3360.00/1,000		
TRSF3221CDBR	296-25070-1-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-SSOP	2.63	2.03	1.84
TRSF3221CDBR	296-25070-2-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-SSOP	2026.00/2,000		
TRSF3221ECDBR	296-24247-1-ND	Single Ch. RS-232 Dvr./Rcvr.* ***NEW!***	16-SSOP	2.63	2.03	1.84
TRSF3221ECDBR	296-24247-2-ND	Single Ch. RS-232 Dvr./Rcvr.* ***NEW!***	16-SSOP	2025.00/2,000		
TRSF3221ECPWR	296-25071-1-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TRSF3221ECPWR	296-25071-2-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	2025.00/2,000		
TRSF3221EIDBR	296-25072-1-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-SSOP	2.63	2.03	1.84
TRSF3221EIDBR	296-25072-2-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-SSOP	2025.00/2,000		
TRSF3221EIPWR	296-25073-1-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TRSF3221EIPWR	296-25073-2-ND	3V to 5.5V Single-Channel RS-232 Driver/Receiver* ***NEW!***	16-TSSOP	2026.00/2,000		
TRSF3222ECDBR	296-25074-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.98	2.30	2.09
TRSF3222ECDBR	296-25074-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2295.00/2,000		
TRSF3222ECDWR	296-25075-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.98	2.30	2.09
TRSF3222ECDWR	296-25075-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20SOIC	2295.00/2,000		
TRSF3222ECPWR	296-25076-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.98	2.30	2.09
TRSF3222ECPWR	296-25076-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2295.00/2,000		
TRSF3222EIDBR	296-25077-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.98	2.30	2.09
TRSF3222EIDBR	296-25077-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2295.00/2,000		
TRSF3222EIDWR	296-25078-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.98	2.30	2.09
TRSF3222EIDWR	296-25078-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2295.00/2,000		
TRSF3222EIPWR	296-25079-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.98	2.30	2.09

***** ***RoHS Compliant***

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® *(Cont.)*

DATA TRANSMISSION

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TRSF3222EIPWR	296-25079-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2295.00/2,000		
TRSF3223ECDBR	296-25080-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.98	2.30	2.09
TRSF3223ECDBR	296-25080-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2295.00/2,000		
TRSF3223ECDWR	296-25081-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.98	2.30	2.09
TRSF3223ECDWR	296-25081-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2295.00/2,000		
TRSF3223ECPWR	296-25082-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.98	2.30	2.09
TRSF3223ECPWR	296-25082-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2295.00/2,000		
TRSF3223EIDBR	296-25083-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2.98	2.30	2.09
TRSF3223EIDBR	296-25083-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SSOP	2295.00/2,000		
TRSF3223EIDWR	296-25084-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2.98	2.30	2.09
TRSF3223EIDWR	296-25084-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-SOIC	2295.00/2,000		
TRSF3223EIPWR	296-25085-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2.98	2.30	2.09
TRSF3223EIPWR	296-25085-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	20-TSSOP	2295.00/2,000		
TRSF3232ECDBR	296-25086-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.63	2.03	1.84
TRSF3232ECDBR	296-25086-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2025.00/2,000		
TRSF3232ECDR	296-25087-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.63	2.03	1.84
TRSF3232ECDR	296-25087-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2531.25/2,500		
TRSF3232ECDWR	296-25088-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.63	2.03	1.84
TRSF3232ECDWR	296-25088-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2025.00/2,000		
TRSF3232ECPWR	296-25089-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TRSF3232ECPWR	296-25089-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2025.00/2,000		
TRSF3232EIDBR	296-25090-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2.63	2.03	1.84
TRSF3232EIDBR	296-25090-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SSOP	2025.00/2,000		
TRSF3232EIDR	296-25091-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.63	2.03	1.84
TRSF3232EIDR	296-25091-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2531.25/2,500		
TRSF3232EIDWR	296-25092-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2.63	2.03	1.84
TRSF3232EIDWR	296-25092-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-SOIC	2025.00/2,000		
TRSF3232EIPWR	296-25093-1-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TRSF3232EIPWR	296-25093-2-ND	3V to 5.5V 2-Channel RS-232 Line Driver/Receiver* ***NEW!***	16-TSSOP	2025.00/2,000		
TRSF3238CPWR	296-25094-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	3.15	2.43	2.21
TRSF3238CPWR	296-25094-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2430.00/2,000		
TRSF3238ECDBR	296-25095-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	3.33	2.57	2.33
TRSF3238ECDBR	296-25095-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2565.00/2,000		
TRSF3238ECDWR	296-25096-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	3.33	2.57	2.33
TRSF3238ECDWR	296-25096-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1377.50/1,000		
TRSF3238EIDBR	296-25097-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	3.33	2.57	2.33
TRSF3238EIDBR	296-25097-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2565.00/2,000		
TRSF3238EIDWR	296-25098-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	3.33	2.57	2.33
TRSF3238EIDWR	296-25098-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1377.50/1,000		
TRSF3238IPWR	296-25099-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	3.15	2.43	2.21
TRSF3238IPWR	296-25099-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2430.00/2,000		
TRSF3243CDBR	296-25100-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	3.15	2.43	2.21
TRSF3243CDBR	296-25100-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2430.00/2,000		
TRSF3243CDWR	296-25101-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	3.15	2.43	2.21
TRSF3243CDWR	296-25101-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1305.00/1,000		
TRSF3243CPWR	296-25102-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	3.15	2.43	2.21
TRSF3243CPWR	296-25102-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2430.00/2,000		
TRSF3243IDBR	296-25103-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	3.15	2.43	2.21
TRSF3243IDBR	296-25103-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SSOP	2430.00/2,000		
TRSF3243IDWR	296-25104-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	3.15	2.43	2.21
TRSF3243IDWR	296-25104-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-SOIC	1305.00/1,000		
TRSF3243IPWR	296-25105-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	3.15	2.43	2.21
TRSF3243IPWR	296-25105-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver* ***NEW!***	28-TSSOP	2430.00/2,000		
UA9636ACD	296-11147-5-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	.92	.74	.65
UA9636ACP	296-11148-5-ND	Dual Line Driver with Adj. Slew Rate	8-Dip	1.00	.81	.71
UA9637ACDR	296-15056-1-ND	Dual Differential Line Receiver	8-SOIC	1.06	.84	.76
UA9637ACDR	296-15056-2-ND	Dual Differential Line Receiver	8-SOIC	980.00/2,500		
UA9637ACP	296-15057-5-ND	Dual Differential Line Receiver	8-Dip	1.08	.87	.76
UA9638CDR	296-15058-1-ND	Dual High Speed Diff. Line Driver	8-SOIC	.66	.51	.45
UA9638CDR	296-15058-2-ND	Dual High Speed Diff. Line Driver	8-SOIC	545.00/2,500		
UA9638CP	296-15059-5-ND	Dual High Speed Diff. Line Driver	8-Dip	.66	.52	.45
UC5170CQ	296-11352-5-ND	Octal Line Driver with Strapped Mode Selection	28-PLCC	9.03	7.41	6.68
UC5180CQ	296-11354-5-ND	Low Speed Async. Octal Line Rcvr	28-PLCC	8.55	7.02	6.33
SCSI						
SN75970B2DGG	296-9921-5-ND	SCSI Differential Converter Control	56-TSSOP	35.90	30.52	28.28
SN75970B2DL	296-9922-5-ND	SCSI Differential Converter Control	56-SSOP	35.90	30.52	28.28
SN75971B2DGG	296-9923-5-ND	SCSI Differential Converter - Data	56-TSSOP	32.70	27.80	25.76
SN75971B2DL	296-9924-5-ND	SCSI Differential Converter - Data	56-SSOP	32.70	27.80	25.76
SN75976A1MDGGREP	296-23022-1-ND	9-Channel Differential Transceiver	56-TSSOP	40.85	35.69	33.33
SN75976A2DL	296-1278-5-ND	9-Channel Differential Transceiver	56-SSOP	33.60	28.56	26.46
SN75976A2DLR	296-1278-1-ND	9-Channel Differential Transceiver	56-SSOP	29.60	26.64	24.42
SN75976A2DLR	296-1278-2-ND	9-Channel Differential Transceiver	56-SSOP	19240.00/1,000		
UCC5642MWP	296-12333-5-ND	9-Line LVD Only SCSI Terminator with Regulator	36-QSOP	7.38	6.05	5.46
Switches						
MAX4594DBVR	296-17649-1-ND	5V Analog Switch	SOT-23-5	.99	.78	.71
MAX4594DCKR	296-17650-1-ND	5V Analog Switch	SC70-5	.99	.78	.71
MAX4594DCKR	296-17650-2-ND	5V Analog Switch	SC70-5	1092.00/3,000		
MAX4595DBVR	296-17651-1-ND	5V Analog Switch	SOT-23-5	.99	.78	.71
MAX4597DCKR	296-17656-1-ND	5V Analog Switch	SC70-5	.99	.78	.71
MAX4597DCKR	296-17656-2-ND	5V Analog Switch	SC70-5	1092.00/3,000		
TL52055PWR	296-18889-1-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-TSSOP	.95	.75	.68
TMDS141RHAR	296-21873-1-ND	HDMI Hider	40-QFN	5.25	4.29	3.85
TMDS141RHAR	296-21873-2-ND	HDMI Hider	40-QFN	5820.00/2,500		
TMDS261BPAG	296-25277-ND	2:1 DVI/HDMI Switch* ***NEW!***	64-TQFP	4.62	3.72	3.39
TMDS261PAG	296-24235-ND	2:1 DVI/HDMI Switch* ***NEW!***	64-TQFP	4.54	3.65	3.33
TMDS341APFCR	296-19741-1-ND	3:1 DVI/HDMI Switch	80-TQFP	6.75	5.52	4.95
TMDS341APFCR	296-19741-2-ND	3:1 DVI/HDMI Switch	80-TQFP	3150.00/1,000		
TMDS341PFC	296-18264-ND	3:1 DVI/HDMI Switch	80-TQFP	6.75	5.54	5.00
TMDS351PAG	296-21970-ND	2.5Gbps, 3:1 DVI/HDMI Switch	64-TQFP	6.44	5.18	4.72
TMDS361BPAG	296-25278-ND	3:1 DVI/HDMI Switch* ***NEW!***	64-TQFP	5.04	4.05	3.69
TMDS361PAG	296-24028-5-ND	3:1 DVI/HDMI Switch	64-TQFP	3.81	3.06	2.79
TMDS361PAGR	296-24008-1-ND	3:1 DVI/HDMI Switch	64-TQFP	3.45	2.82	2.53
TMDS442PNP	296-26832-5-ND	4:1 DVI/HDMI Switch* ***NEW!***	128-HTQFP	9.63	7.90	7.13
TMDS461PZT	296-24122-ND	4:1 DVI/HDMI Switch*	100-TQFP	5.46	4.39	4.00
TPS22902YFPR	296-24472-1-ND	Low rON Load Switch* ***NEW!***	4-DSBGA	1.22	.96	.87
TPS22902YFPR	296-24472-2-ND	Low rON Load Switch* ***NEW!***	4-DSBGA	1344.00/3,000		
TPS22921YZPR	296-24473-1-ND	Low rON Load Switch* ***NEW!***	6-DSBGA	1.63	1.29	1.17
TPS22921YZPR	296-24473-2-ND	Low rON Load Switch* ***NEW!***	6-DSBGA	1806.00/3,000		
TPS22922YZPR	296-24474-1-ND	Low rON Load Switch* ***NEW!***	6-DSBGA	1.63	1.29	1.17
TPS22922YZPR	296-24474-2-ND	Low rON Load Switch* ***NEW!***	6-DSBGA	1806.00/3,000		
TPS22945DCKR	296-24475-1-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1.37	1.08	.98
TPS22945DCKR	296-24475-2-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1512.00/3,000		
TS2DDR2811ZXYR	296-25542-1-ND	8-Channel 1GHz SPST Switch* ***NEW!***	20-BGA	1.75	1.35	1.23
TS2DDR2811ZXYR	296-25542-2-ND	8-Channel 1GHz SPST Switch* ***NEW!***	20-BGA	1687.50/2,500		
TS3A4741DCNR	296-24793-1-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	SOT-23-8	1.14	.90	.81
TS3A4741DCNR	296-24793-2-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	SOT-23-8	1260.00/3,000		
TS3A4741DGKR	296-21917-1-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch	8-MSOP	1.14	.90	.81
TS3A4741DGKR	296-21917-2-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch	8-MSOP	1050.00/2,500		
TS3A4742DCNR	296-24794-1-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	SOT-23-8	1.14	.90	.81
TS3A4742DCNR	296-24794-2-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	SOT-23-8	1260.00/3,000		
TS3A4742DGKR	296-24795-1-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	8-MSOP	1.14	.90	.81
TS3A4742DGKR	296-24795-2-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch* ***NEW!***	8-MSOP	1050.00/2,500		
TS3A4751PWR	296-20700-1-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch	14-TSSOP	1.52	1.20	1.08
TS3A4751PWR	296-20700-2-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch	14-TSSOP	1120.00/2,000		
TS3A4751RGYR	296-24477-1-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch* ***NEW!***	14-QFN	1.55	1.23	1.11
TS3A4751RGYR	296-24477-2-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch* ***NEW!***	14-QFN	1713.00/3,000		
TS3A4751RUCR	296-24478-1-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch* ***NEW!***	14-QFN	1.60	1.26	1.14
TS3A4751RUCR	296-24478-2-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch* ***NEW!***	14-QFN	1764.00/3,000		
TS3A5017DR	296-17583-1-ND	14-Ohm Dual SP4T Analog Switch	16-SOIC	1.06	.82	.72
TS3A5017DR	296-17583-2-ND	14-Ohm Dual SP4T Analog Switch	16-SOIC	870.00/2,500		
TS3A5017PWR	296-17584-1-ND	14-Ohm Dual SP4T Analog Switch	16-TSSOP	1.06	.82	.72
TS3A5017PWR	296-17584-2-ND	14-Ohm Dual SP4T Analog Switch	16-TSSOP	696.00/2,000		
TS3A5017RSVR	296-24683-1-ND	12-Ohm Dual SP4T Analog Switch* ***NEW!***	16-UQFN	1.02	.81	.73
TS3A5017RSVR	296-24683-2-ND	12-Ohm Dual SP4T Analog Switch* ***NEW!***	16-UQFN	1129.80/3,000		
TS3A5018DBQR	296-17609-1-ND	10-Ohm Quad SPDT Analog Switch	16-QSOP	1.06	.82	.72
TS3A5018DBQR	296-17609-2-ND	10-Ohm Quad SPDT Analog Switch	16-QSOP	870.00/2,500		
TS3A5018DR	296-17611-1-ND	10-Ohm Quad SPDT Analog Switch	16-SOIC	1.06	.82	.72
TS3A5018PW	296-27119-5-ND	10-Ohm Quad SPDT Analog Switch* ***NEW!***	16-TSSOP	1.01	.81	.71
TS3A5018PWR	296-17612-1-ND	10-Ohm Quad SPDT Analog Switch	16-TSSOP	1.06	.82	.72
TS3A5018PWR	296-17612-2-ND	10-Ohm Quad SPDT Analog Switch	16-TSSOP	696.00/2,000		
TS3A24157DGSR	296-22856-1-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux	10-MSOP	1.41	1.11	1.00
TS3A24157DGSR	296-22856-2-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux	10-MSOP	1295.00/2,500		
TS3A24157RSER	296-22857-1-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux	10-UQFN	1.41	1.11	1.00
TS3A24157RSER	296-22857-2-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux	10-UQFN	1554.00/3,000		
TS3A24159DGSR	296-21913-1-ND	0.3-Ohm Dual SPDT Analog Switch	10-MSOP	1.48	1.17	1.06
TS3A24159DGSR	296-21913-2-ND	0.3-Ohm Dual SPDT Analog Switch	10-MSOP	1365.00/2,500		
TS3A24159DRCR	296-21914-1-ND	0.3-Ohm Dual SPDT Analog Switch	10-SON	1.48	1.17	1.06

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(Continued)

TEXAS INSTRUMENTS **DigiReel®** *(Cont.)* **DATA TRANSMISSION** ***RoHS Compliant Parts Available***

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TS3A24159DRCR	296-21914-2-ND	0.3-Ohm Dual SPDT Analog Switch	10-SON	1638.00/3,000		
TS3A24159YZPR	296-22714-1-ND	0.3-Ohm Dual SPDT Analog Switch	10-DSBGA	1.48	1.17	1.06
TS3A27518EPWR	296-24570-1-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-TSSOP	3.15	2.43	2.21
TS3A27518EPWR	296-24570-2-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-TSSOP	2430.00/2,000		
TS3A27518ERTWR	296-25415-1-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-QFN	3.15	2.43	2.21
TS3A27518ERTWR	296-25415-2-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-QFN	3645.00/3,000		
TS3A27518EZQSR	296-25416-1-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-BGA	3.47	2.68	2.43
TS3A27518EZQSR	296-25416-2-ND	6-Bit, 1-of-2 Mux/Demux* ***NEW!***	24-BGA	3341.25/2,500		
TS3A44159PWR	296-21915-1-ND	0.45-Ohm Quad SPDT Analog Switch	16-TSSOP	1.41	1.11	1.00
TS3A44159PWR	296-21915-2-ND	0.45-Ohm Quad SPDT Analog Switch	16-TSSOP	1036.00/2,000		
TS3A44159RGTR	296-21916-1-ND	0.45-Ohm Quad SPDT Analog Switch	16-VQFN	1.41	1.11	1.00
TS3A44159RGTR	296-21916-2-ND	0.45-Ohm Quad SPDT Analog Switch	16-VQFN	1554.00/3,000		
TS3A44159RSVR	296-24792-1-ND	0.45-Ohm Quad SPDT Analog Switch* ***NEW!***	16-UQFN	1.41	1.11	1.00
TS3A44159RSVR	296-24792-2-ND	0.45-Ohm Quad SPDT Analog Switch* ***NEW!***	16-UQFN	1554.00/3,000		
TS3DS26227YZTR	296-22890-1-ND	High-Bandwidth Dual SPDT Differential Signal Switch	12-DSBGA	1.93	1.49	1.35
TS3DV416DGGR	296-21175-1-ND	4-Channel Diff. 8:16 Mux Switch	48-TSSOP	3.15	2.43	2.21
TS3DV416DGGR	296-21175-2-ND	4-Channel Diff. 8:16 Mux Switch	48-TSSOP	2430.00/2,000		
TS3DV421DGVR	296-24796-1-ND	4-Ch. Diff. 8:16 Mux Switch* ***NEW!***	48-TVSOP	2.98	2.30	2.09
TS3DV421DGVR	296-24796-2-ND	4-Ch. Diff. 8:16 Mux Switch* ***NEW!***	48-TVSOP	2295.00/2,000		
TS3DV421RUAR	296-24797-1-ND	4-Ch. Diff. 8:16 Mux Switch* ***NEW!***	42-QFN	2.98	2.30	2.09
TS3DV421RUAR	296-24797-2-ND	4-Ch. Diff. 8:16 Mux Switch* ***NEW!***	42-QFN	3442.50/3,000		
TS3DV520RHUR	296-21177-1-ND	5-Channel Diff. 10:20 Mux Switch	56-WQFN	3.00	2.45	2.20
TS3L100DBQR	296-17354-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QSOP	1.93	1.49	1.35
TS3L100RGYR	296-17302-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-VQFN	1.93	1.49	1.35
TS3L110DBQR	296-17392-1-ND	3.3V Quad 2:1 Mux/Demux LAN Switch	16-QSOP	2.80	2.16	1.96
TS3L110DBQR	296-17392-2-ND	3.3V Quad 2:1 Mux/Demux LAN Switch	16-QSOP	2700.00/2,500		
TS3L110PWR	296-19015-1-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	2.80	2.16	1.96
TS3L110PWR	296-19015-2-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	2160.00/2,000		
TS3L110RGYR	296-17456-1-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-VQFN	2.80	2.16	1.96
TS3L301DGGR	296-17533-1-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	3.60	2.94	2.64
TS3L301DGGR	296-17533-2-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	3192.00/2,000		
TS3L500AERHUR	296-22858-1-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch	56-WQFN	3.33	2.57	2.33
TS3L500AERHUR	296-22858-2-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch	56-WQFN	2566.00/2,000		
TS3L4892RHHR	296-24798-1-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch* ***NEW!***	36-QFN	3.33	2.57	2.33
TS3L4892RHHR	296-24798-2-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch* ***NEW!***	36-QFN	3206.25/2,500		
TS3USB30EDGSR	296-25495-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-MSOP	1.93	1.49	1.35
TS3USB30EDGSR	296-25495-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-MSOP	1857.50/2,500		
TS3USB30RSWR	296-22547-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-UQFN	1.93	1.49	1.35
TS3USB30RSWR	296-22547-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-UQFN	2229.00/3,000		
TS3USB31ERSER	296-25362-1-ND	High Speed USB 2.0, 1-Port Switch* ***NEW!***	8-QFN	1.33	1.05	.95
TS3USB31ERSER	296-25362-2-ND	High Speed USB 2.0, 1-Port Switch* ***NEW!***	8-QFN	1470.00/3,000		
TS3USB31RSER	296-22548-1-ND	High Speed USB 2.0, 1-Port Switch	8-UQFN	1.33	1.05	.95
TS3USB31RSER	296-22548-2-ND	High Speed USB 2.0, 1-Port Switch	8-UQFN	1470.00/3,000		
TS3USB221ARSER	296-24019-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-QFN	2.10	1.62	1.47
TS3USB221ARSER	296-24019-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-QFN	2430.00/3,000		
TS3USB221DRCR	296-21360-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-SON	2.10	1.62	1.47
TS3USB221DRCR	296-21360-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-SON	2430.00/3,000		
TS3USB221EDRCR	296-25221-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-SON	2.10	1.62	1.47
TS3USB221EDRCR	296-25221-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-SON	2430.00/3,000		
TS3USB221ERSER	296-25222-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-QFN	2.10	1.62	1.47
TS3USB221ERSER	296-25222-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-QFN	2430.00/3,000		
TS3USB221RSER	296-21918-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-UQFN	2.10	1.62	1.47
TS3USB221RSER	296-21918-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch	10-UQFN	2430.00/3,000		
TS3USB30ERSWR	296-24684-1-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-UQFN	1.93	1.49	1.35
TS3USB30ERSWR	296-24684-2-ND	HS USB 2.0, 1:2 Mux/Demux Switch* ***NEW!***	10-UQFN	2227.50/3,000		
TS3V330DGVR	296-19017-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TVSOP	1.14	.90	.81
TS3V330PWR	296-18212-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	1.14	.90	.81
TS3V340DBQR	296-17815-1-ND	Quad SPDT High Bandwidth Video Switch	16-QSOP	1.48	1.17	1.06
TS3V340DGVR	296-17816-1-ND	Quad SPDT High Bandwidth Video Switch	16-TVSOP	1.48	1.17	1.06
TS3V712ERTGR	296-25797-1-ND	7-Ch. Video Mux/Demux Switch* ***NEW!***	32-QFN	4.50	3.68	3.30
TS3V712ERTGR	296-25797-2-ND	7-Ch. Video Mux/Demux Switch* ***NEW!***	32-QFN	5985.00/3,000		
TS5A1066DBVR	296-17585-1-ND	10-Ohm SPST Analog Switch	SOT-23-5	.58	.38	.32
TS5A1066DCKR	296-17586-1-ND	10-Ohm SPST Analog Switch	SC70-5	.58	.38	.32
TS5A1066DCKR	296-17586-2-ND	10-Ohm SPST Analog Switch	SC70-5	396.00/3,000		
TS5A1066YZPR	296-21179-1-ND	10-Ohm SPST Analog Switch	5-DSBGA	.75	.53	.45
TS5A2053DCUR	296-17751-1-ND	Single Channel 10-Ohm SPDT Analog Switch	8-VSSOP	.66	.51	.45
TS5A2066DCUR	296-17877-1-ND	Dual Ch. 10-Ohm SPST Analog Switch	8-VSSOP	.66	.51	.45
TS5A2066DCUR	296-17877-2-ND	Dual Ch. 10-Ohm SPST Analog Switch	8-VSSOP	652.50/3,000		
TS5A2066YZPR	296-21181-1-ND	Dual Ch. 10-Ohm SPST Analog Switch	8-DSBGA	.79	.62	.54
TS5A3153DCUR	296-21185-1-ND	1-Ohm SPDT Analog Switch	8-VSSOP	.75	.58	.51
TS5A3153DCUR	296-21185-2-ND	1-Ohm SPDT Analog Switch	8-VSSOP	741.00/3,000		
TS5A3154DCUR	296-17878-1-ND	0.9-Ohm SPDT Analog Switch	8-VSSOP	.75	.58	.51
TS5A3154DCUR	296-17878-2-ND	0.9-Ohm SPDT Analog Switch	8-VSSOP	739.50/3,000		
TS5A3157DBVR	296-17587-1-ND	10-Ohm SPDT Analog Switch	SOT-23-6	.50	.35	.30

TEXAS INSTRUMENTS **DigiReel®** *(Cont.)* **DATA TRANSMISSION** ***RoHS Compliant Parts Available***

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TS5A3157DBVR	296-17587-2-ND	10-Ohm SPDT Analog Switch	SOT-23-6	420.00/3,000		
TS5A3157DCKR	296-17588-1-ND	10-Ohm SPDT Analog Switch	SC70-6	.50	.35	.30
TS5A3157DCKR	296-17588-2-ND	10-Ohm SPDT Analog Switch	SC70-6	420.00/3,000		
TS5A3159ADBVR	296-19265-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.95	.75	.68
TS5A3159ADBVR	296-19265-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	1050.00/3,000		
TS5A3159ADCKR	296-21188-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.95	.75	.68
TS5A3159ADCKR	296-21188-2-ND	1-Ohm SPDT Analog Switch	SC70-6	1050.00/3,000		
TS5A3159AYZPR	296-18671-1-ND	1-Ohm SPDT Analog Switch	6-DSBGA	1.62	1.28	1.15
TS5A3159AYZPR	296-18671-2-ND	1-Ohm SPDT Analog Switch	6-DSBGA	1785.00/3,000		
TS5A3159DBVR	296-17319-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.95	.75	.68
TS5A3159DBVR	296-17319-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	1050.00/3,000		
TS5A3159DCKR	296-17303-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.95	.75	.68
TS5A3159DCKR	296-17303-2-ND	1-Ohm SPDT Analog Switch	SC70-6	1050.00/3,000		
TS5A3159MDBVREP	296-19530-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	2.24	1.73	1.57
TS5A3160DBVR	296-21189-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.77	.54	.47
TS5A3160DBVR	296-21189-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	651.00/3,000		
TS5A3160DCKR	296-21190-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.77	.54	.47
TS5A3160DCKR	296-21190-2-ND	1-Ohm SPDT Analog Switch	SC70-6	651.00/3,000		
TS5A3166DBVR	296-17740-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.66	.47	.40
TS5A3166DBVR	296-17740-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	558.00/3,000		
TS5A3166DCKR	296-17741-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.66	.47	.40
TS5A3166DCKR	296-17741-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	558.00/3,000		
TS5A3167DBVR	296-17752-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.66	.47	.40
TS5A3167DBVR	296-17752-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	558.00/3,000		
TS5A3167DCKR	296-17753-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.66	.47	.40
TS5A3167DCKR	296-17753-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	558.00/3,000		
TS5A3167YZPR	296-21192-1-ND	0.9-Ohm SPST Analog Switch	5-DSBGA	.75	.53	.46
TS5A3357DCUR	296-17404-1-ND	Single 5-Ohm SP3T Analog Switch	US8	1.03	.81	.73
TS5A3357DCUR	296-17404-2-ND	Single 5-Ohm SP3T Analog Switch	US8	1134.00/3,000		
TS5A3359DCUR	296-21193-1-ND	1-Ohm SP3T Analog Switch	8-VSSOP	1.10	.87	.79
TS5A3359DCUR	296-21193-2-ND	1-Ohm SP3T Analog Switch	8-VSSOP	1218.00/3,000		
TS5A4594DBVR	296-17705-1-ND	5V Analog Switch	SOT-23-5	.50	.35	.30
TS5A4594DBVR	296-17705-2-ND	5V Analog Switch	SOT-23-5	420.00/3,000		
TS5A4595DCKR	296-17708-1-ND	5V Analog Switch	SC70-5	.50	.35	.30
TS5A4596DCKR	296-17710-1-ND	5V Analog Switch	SC70-5	.66	.51	.45
TS5A4596DCKR	296-17710-2-ND	5V Analog Switch	SC70-5	652.50/3,000		
TS5A4597DBVR	296-17711-1-ND	5V Analog Switch	SOT-23-5	.50	.35	.30
TS5A4597DBVR	296-17711-2-ND	5V Analog Switch	SOT-23-5	418.50/3,000		
TS5A4624DCKR	296-19804-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.72	.51	.43
TS5A4624DCKR	296-19804-2-ND	1-Ohm SPDT Analog Switch	SC70-6	606.00/3,000		
TS5A6542YZPR	296-21920-1-ND	0.75-Ohm SPDT Analog Switch	8-DSBGA	1.41	1.11	1.00
TS5A6542YZPR	296-21920-2-ND	0.75-Ohm SPDT Analog Switch	8-DSBGA	1554.00/3,000		
TS5A9411DCKR	296-22731-1-ND	10-Ohm SPST Analog Switch 5V/3V Single-Channel Mux/Demux	SC70-6	.70	.55	.48
TS5A9411DCKR	296-22731-2-ND	10-Ohm SPST Analog Switch 5V/3V Single-Channel Mux/Demux	SC70-6	696.00/3,000		
TS5A12301EYFPR	296-23757-1-ND	IEC Level 4 ESD Protected 0.75-Ohm SPDT Analog Switch	6-DSBGA	1.06	.82	.72
TS5A12301EYFPR	296-23757-2-ND	IEC Level 4 ESD Protected 0.75-Ohm SPDT Analog Switch	6-DSBGA	1044.00/3,000		
TS5A21366DCUR	296-24304-1-ND	1-Ohm Dual SPST Analog Switch* ***NEW!***	8-VSSOP	1.71	1.35	1.22
TS5A21366DCUR	296-24304-2-ND	1-Ohm Dual SPST Analog Switch* ***NEW!***	8-VSSOP	1890.00/3,000		
TS5A21366RSER	296-25285-1-ND	0.75-Ohm Dual SPST Analog Switch* ***NEW!***	8-QFN	1.71	1.35	1.22
TS5A21366RSER	296-25285-2-ND	0.75-Ohm Dual SPST Analog Switch* ***NEW!***	8-QFN	1890.00/3,000		
TS5A22362DGSR	296-24799-1-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-MSOP	1.75	1.35	1.23
TS5A22362DGSR	296-24799-2-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-MSOP	1687.50/2,500		
TS5A22362DRCR	296-23758-1-ND	0.65-Ohm Dual SPDT Analog Switch	10-SON	1.75	1.35	1.23
TS5A22362YZPR	296-24800-1-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-DSBGA	2.10	1.62	1.47
TS5A22362YZPR	296-24800-2-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-DSBGA	2430.00/3,000		
TS5A22364DGSR	296-23622-1-ND	0.65-Ohm Dual SPDT Analog Switch	10-MSOP	2.28	1.76	1.60
TS5A22364DGSR	296-23622-2-ND	0.65-Ohm Dual SPDT Analog Switch	10-MSOP	2193.75/2,500		
TS5A22364DRCR	296-24801-1-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-SON	2.28	1.76	1.60
TS5A22364DRCR	296-24801-2-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-SON	2632.50/3,000		
TS5A22364YZPR	296-24802-1-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-DSBGA	1.56	1.23	1.11
TS5A22364YZPR	296-24802-2-ND	0.65-Ohm Dual SPDT Analog Switch* ***NEW!***	10-DSBGA	1722.00/3,000		
TS5A22366YFCR	296-24479-1-ND	0.7-Ohm Dual SPDT Analog Switch* ***NEW!***	12-DSBGA	2.28	1.76	1.60
TS5A22366YFCR	296-24479-2-ND	0.7-Ohm Dual SPDT Analog Switch* ***NEW!***	12-DSBGA	2632.50/3,000		
TS5A23157DGSR	296-17076-1-ND	Dual 10-Ohm SPDT Analog Switch	10-MSOP	1.01	.79	.69
TS5A23157DGSR	296-17076-2-ND	Dual 10-Ohm SPDT Analog Switch	10-MSOP	835.00/2,500		
TS5A23157RSER	296-21919-1-ND	Dual 10-Ohm SPDT Analog Switch	10-UQFN	1.01	.79	.69
TS5A23157RSER	296-21919-2-ND	Dual 10-Ohm SPDT Analog Switch	10-UQFN	1002.00/3,000		
TS5A23157TDGSRQ1	296-24564-1-ND	Dual 10-Ohm SPDT Analog Switch* ***NEW!***	10-MSOP	.98	.78	.70
TS5A23157TDGSRQ1	296-24564-2-ND	Dual 10-Ohm SPDT Analog Switch* ***NEW!***	10-MSOP	902.50/2,500		
TS5A23159DGSR	296-18598-1-ND	1-Ohm Dual SPDT Analog Switch	10-MSOP	1.03	.81	.73
TS5A23159DGSR	296-18598-2-ND	1-Ohm Dual SPDT Analog Switch	10-MSOP	945.00/2,500		
TS5A23159RSER	296-20669-1-ND	1-Ohm Dual SPDT Analog Switch	10-UQFN	1.03	.81	.73
TS5A23159RSER	296-20669-2-ND	1-Ohm Dual SPDT Analog Switch	10-UQFN	1134.00/3,000		
TS5A23160DGSR	296-18039-1-ND	Analog Switch	10-MSOP	1.03	.81	.73
TS5A23160DGSR	296-18039-2-ND	Analog Switch	10-MSOP	945.00/2,500		
TS5A23166DCUR	296-17906-1-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	1.06	.82	.72
TS5A23166DCUR	296-17906-2-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	1044.00/3,000		
TS5A23166YZPR	296-21182-1-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	.95	.75	.68
TS5A23166YZPR	296-21182-2-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	1050.00/3,000		
TS5A23167DCUR	296-17985-1-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	1.06	.82	.72
TS5A63157DBVR	296-21194-1-ND	12-Ohm SPDT Analog Switch	SOT-23-6	.61	.43	.37
TS5A63157DCKR	296-21195-1-ND	12-Ohm SPDT Analog Switch	SC70-6	.61	.43	.37
TS5A63157DCKR	296-21195-2-ND	12-Ohm SPDT Analog Switch	SC70-6	511.50/3,000		
TS5V330CDBQR	296-25417-1-ND	Quad SPDT Wide Bandwidth Video Switch* ***NEW!***	16-QSOP	.61	.43	.37

* *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

DATA TRANSMISSION

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TS5V330CDBQR	296-25417-2-ND	Quad SPDT Wide Bandwidth Video Switch* ***NEW!***	16-QSOP	426.25/2,500		
TS5V330CDR	296-25418-1-ND	Quad SPDT Wide Bandwidth Video Switch* ***NEW!***	16-SOIC	.61	.43	.37
TS5V330CDR	296-25418-2-ND	Quad SPDT Wide Bandwidth Video Switch* ***NEW!***	16-SOIC	426.25/2,500		
TS5V330DBQR	296-17089-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	1.18	.93	.84
TS5V330DBQR	296-17089-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	1085.00/2,500		
TS12A4514DBVR	296-24201-1-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.01	.79	.69
TS12A4514DBVR	296-24201-2-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1000.50/3,000		
TS12A4514P	296-21908-5-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch	8-Dip	.92	.72	.63
TS12A4515DBVR	296-24268-1-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.01	.79	.69
TS12A4515DBVR	296-24268-2-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1000.50/3,000		
TS12A4515DR	296-21909-1-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch	8-SOIC	1.01	.79	.69
TS12A4515P	296-21910-5-ND	Low Voltage, Low On-State Resistance SPST CMOS Analog Switch	8-Dip	.92	.72	.63
TS12A4516DBVR	296-24269-1-ND	Dual Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	.95	.75	.68
TS12A4516DBVR	296-24269-2-ND	Dual Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1050.00/3,000		
TS12A4517DBVR	296-24270-1-ND	Dual Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	.95	.75	.68
TS12A4517DBVR	296-24270-2-ND	Dual Low On-State Resistance SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1050.00/3,000		
TS12A12511DRJR	296-25352-1-ND	Single SPDT Analog Switch* ***NEW!***	8-SON	1.93	1.49	1.35
TS12A12511DRJR	296-25352-2-ND	Single SPDT Analog Switch* ***NEW!***	8-SON	797.50/1,000		
TS12A44513DR	296-24788-1-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-SOIC	2.10	1.62	1.47
TS12A44513DR	296-24788-2-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-SOIC	2025.00/2,500		
TS12A44513PWR	296-24789-1-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-TSSOP	2.10	1.62	1.47
TS12A44513PWR	296-24789-2-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-TSSOP	1620.00/2,000		
TS12A44515DR	296-24790-1-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-SOIC	2.10	1.62	1.47
TS12A44515DR	296-24790-2-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-SOIC	2025.00/2,500		
TS12A44515PWR	296-24791-1-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-TSSOP	2.10	1.62	1.47
TS12A44515PWR	296-24791-2-ND	Low On-State Resistance Quad SPST CMOS Analog Switch* ***NEW!***	14-TSSOP	1620.00/2,000		

NEW! DIGITAL POTENTIOMETERS

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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPL8002-25PWR	296-25791-1-ND	Tandem 64-Tap Digital Potentiometer	16-TSSOP	3.90	3.19	2.86
TPL8002-25PWR	296-25791-2-ND	Tandem 64-Tap Digital Potentiometer	16-TSSOP	3458.00/2,000		

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		4000 Family				
CD4001BE	296-2028-5-ND	CMOS Quad 2-Input NOR Gate	14-Dip	.51	.38	.33
CD4001BM	296-3500-5-ND	CMOS Quad 2-Input NOR Gate	14-SOIC	.54	.40	.35
CD4001BM96	296-24346-1-ND	CMOS Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	.52	.37	.32
CD4001BM96	296-24346-2-ND	CMOS Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	367.50/2,500		
CD4001BNSR	296-12627-1-ND	CMOS Quad 2-Input NOR Gate	14-SOP	.58	.41	.35
CD4001BNSR	296-12627-2-ND	CMOS Quad 2-Input NOR Gate	14-SOP	326.00/2,000		
CD4001BPWR	296-14076-1-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	.52	.37	.32
CD4001BPWR	296-14076-2-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	294.00/2,000		
CD4001UBE	296-14077-5-ND	CMOS Quad 2-Input NOR Gate	14-Dip	.51	.38	.33
CD4002BE	296-2029-5-ND	Dual 4-Input NOR Gate	14-Dip	.51	.38	.33
CD4002BNSR	296-14078-1-ND	Dual 4-Input NOR Gate	14-SOP	.58	.41	.35
CD4002BNSR	296-14078-2-ND	Dual 4-Input NOR Gate	14-SOP	326.00/2,000		
CD4002BPWR	296-14239-1-ND	Dual 4-Input NOR Gate	14-TSSOP	.52	.37	.32
CD4002BPWR	296-14239-2-ND	Dual 4-Input NOR Gate	14-TSSOP	294.00/2,000		
CD4007UBE	296-3501-5-ND	Dual Complementary Pair Plus Inverter	14-Dip	.51	.38	.33
CD4007UBM	296-3502-5-ND	Dual Complementary Pair Plus Inverter	14-SOIC	.54	.40	.35
CD4009UBE	296-2030-5-ND	Hex Inverter Buffer	16-Dip	.55	.41	.35
CD4010BE	296-2160-5-ND	Hex Buffer/Converter	16-Dip	.55	.41	.35
CD4010BPWR	296-14084-1-ND	Hex Buffer/Converter	16-TSSOP	.54	.38	.33
CD4011BE	296-2031-5-ND	Quad 2-Input NAND Gate	14-Dip	.51	.38	.33
CD4011BM	296-3507-5-ND	Quad 2-Input NAND Gate	14-SOIC	.54	.40	.35
CD4011BM96	296-14474-1-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	.52	.37	.32
CD4011BM96	296-14474-2-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	367.50/2,500		
CD4011BNSR	296-14085-1-ND	Quad 2-Input NAND Gate	14-SOP	.58	.41	.35
CD4011BPWR	296-12759-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.52	.37	.32
CD4011BPWR	296-12759-2-ND	Quad 2-Input NAND Gate	14-TSSOP	294.00/2,000		
CD4011UBE	296-14086-5-ND	Quad 2-Input NAND Gate	14-Dip	.51	.38	.33
CD4011UBM	296-14245-5-ND	Quad 2-Input NAND Gate	14-SOIC	.54	.40	.35
CD4012BE	296-2032-5-ND	Dual 4-Input NAND Gate	14-Dip	.51	.38	.33
CD4012BM	296-25938-5-ND	Dual 4-Input NAND Gate* ***NEW!***	14-SOIC	.54	.40	.35
CD4012BM96	296-14246-1-ND	Dual 4-Input NAND Gate	14-SOIC	.50	.35	.30
CD4012BM96	296-14246-2-ND	Dual 4-Input NAND Gate	14-SOIC	367.50/2,500		
CD4012BNSR	296-14087-1-ND	Dual 4-Input NAND Gate	14-SOP	.58	.41	.35
CD4013BE	296-2033-5-ND	Dual CMOS D-Type Flip-Flop	14-Dip	.51	.38	.33
CD4013BM	296-12972-5-ND	Dual CMOS D-Type Flip-Flop	14-SOIC	.54	.40	.35
CD4013BM96	296-24347-1-ND	Dual CMOS D-Type Flip-Flop* ***NEW!***	14-SOIC	.52	.37	.32
CD4013BM96	296-24347-2-ND	Dual CMOS D-Type Flip-Flop* ***NEW!***	14-SOIC	367.50/2,500		
CD4013BNSR	296-14088-1-ND	Dual CMOS D-Type Flip-Flop	14-SOP	.58	.41	.35
CD4013BNSR	296-14088-2-ND	Dual CMOS D-Type Flip-Flop	14-SOP	326.00/2,000		
CD4013BPWR	296-14089-1-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	.52	.37	.32
CD4013BPWR	296-14089-2-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	294.00/2,000		

DIGITAL LOGIC

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4014BE	296-2034-5-ND	8-Stage Static Shift Register	16-Dip	.59	.44	.38
CD4015BE	296-2035-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.59	.44	.38
CD4015BM	296-23201-5-ND	CMOS Dual 4-Stage Static Shift Register	16-SOIC	.60	.45	.39
CD4015BM96	296-25939-1-ND	CMOS Dual 4-Stage Static Shift Register* ***NEW!***	16-SOIC	.59	.42	.36
CD4015BM96	296-25939-2-ND	CMOS Dual 4-Stage Static Shift Register* ***NEW!***	16-SOIC	417.50/2,500		
CD4016BE	296-2036-5-ND	Quad Bilateral Switch	14-Dip	.51	.38	.33
CD4016BM	296-14250-5-ND	Quad Bilateral Switch	14-SOIC	.54	.40	.35
CD4016BNSR	296-14092-1-ND	Quad Bilateral Switch	16-SOP	.58	.41	.35
CD4016BNSR	296-14092-2-ND	Quad Bilateral Switch	16-SOP	326.00/2,000		
CD4017BE	296-2037-5-ND	10 Decade Counter/Divider	16-Dip	.55	.41	.35
CD4017BM96	296-25940-1-ND	10 Decade Counter/Divider* ***NEW!***	16-SOIC	.54	.38	.33
CD4017BM96	296-25940-2-ND	10 Decade Counter/Divider* ***NEW!***	16-SOIC	380.00/2,500		
CD4017BNSR	296-14094-1-ND	10 Decade Counter/Divider	16-SOP	.59	.42	.36
CD4017BNSR	296-14094-2-ND	10 Decade Counter/Divider	16-SOP	334.00/2,000		
CD4018BE	296-14236-ND	CMOS Presettable Divide-by-N Counter	16-Dip	.59	.44	.38
CD4018BNSR	296-14095-1-ND	CMOS Presettable Divide-by-N Counter	16-SOP	.65	.46	.39
CD4018BNSR	296-14095-2-ND	CMOS Presettable Divide-by-N Counter	16-SOP	366.00/2,000		
CD4019BE	296-2038-5-ND	Quad AND/OR Select Gate	16-Dip	.55	.41	.35
CD4020BE	296-2039-5-ND	14-Bit Ripple-Carry Binary Counter/ Divider	16-Dip	.55	.41	.35
CD4020BNSR	296-14097-1-ND	14-Bit Ripple-Carry Binary Counter/ Divider	16-SOP	.59	.42	.36
CD4021BE	296-2040-5-ND	8-Stage Static Shift Register	16-Dip	.55	.41	.35
CD4021BM	296-14255-5-ND	8-Stage Static Shift Register	16-SOIC	.56	.42	.36
CD4021BPWR	296-14256-1-ND	8-Stage Static Shift Register	16-TSSOP	.54	.38	.33
CD4021BPWR	296-14256-2-ND	8-Stage Static Shift Register	16-TSSOP	304.00/2,000		
CD4022BE	296-2161-5-ND	Octal Counter/Divider	16-Dip	.55	.41	.35
CD4022BPWR	296-14257-1-ND	Octal Counter/Divider	16-TSSOP	.54	.38	.33
CD4022BPWR	296-14257-2-ND	Octal Counter/Divider	16-TSSOP	304.00/2,000		
CD4023BE	296-2041-5-ND	Triple 3-Input NAND Gate	14-Dip	.52	.39	.33
CD4023BM	296-25941-5-ND	Triple 3-Input NAND Gate* ***NEW!***	14-SOIC	.56	.42	.36
CD4023BNSR	296-14099-1-ND	Triple 3-Input NAND Gate	14-SOP	.59	.42	.36
CD4023BNSR	296-14099-2-ND	Triple 3-Input NAND Gate	14-SOP	334.00/2,000		
CD4024BE	296-2042-5-ND	7-Stage, Ripple-Carry Binary Counter/ Divider	14-Dip	.52	.39	.33
CD4024BM	296-25942-5-ND	7-Stage, Ripple-Carry Binary Counter/ Divider* ***NEW!***	14-SOIC	.56	.42	.36
CD4024BM96	296-14258-1-ND	7-Stage, Ripple-Carry Binary Counter/ Divider	14-SOIC	.54	.38	.33
CD4024BM96	296-14258-2-ND	7-Stage, Ripple-Carry Binary Counter/ Divider	14-SOIC	380.00/2,500		
CD4025BE	296-2043-5-ND	Triple 3-Input NOR Gate	14-Dip	.51	.38	.33
CD4026BE	296-14260-5-ND	Decade Counter/Divider	16-Dip	.55	.41	.35
CD4026BPWR	296-14261-1-ND	Decade Counter/Divider	16-TSSOP	.54	.38	.33
CD4026BPWR	296-14261-2-ND	Decade Counter/Divider	16-TSSOP	304.00/2,000		
CD4027BE	296-2044-5-ND	Dual JK Master/Slave Flip-Flop	16-Dip	.55	.41	.35
CD4027BM	296-3511-5-ND	Dual JK Master/Slave Flip-Flop	16-SOIC	.56	.42	.36
CD4028BE	296-2045-5-ND	BCD-to-Decimal Decoder	16-Dip	.55	.41	.35
CD4028BNSR	296-12724-1-ND	BCD-to-Decimal Decoder	16-SOP	.59	.42	.36
CD4028BNSR	296-12724-2-ND	BCD-to-Decimal Decoder	16-SOP	334.00/2,000		
CD4029BE	296-2046-5-ND	Preset Up/Down Binary Counter	16-Dip	.55	.41	.35
CD4029BM	296-25943-5-ND	Preset Up/Down Binary Counter* ***NEW!***	16-SOIC	.56	.42	.36
CD4029BPWR	296-17105-1-ND	Preset Up/Down Binary Counter	16-TSSOP	.54	.38	.33
CD4029BPWR	296-17105-2-ND	Preset Up/Down Binary Counter	16-TSSOP	304.00/2,000		
CD4030BE	296-2047-5-ND	Quad Exclusive OR Gate	14-Dip	.51	.38	.33
CD4030BM	296-14263-5-ND	Quad Exclusive OR Gate	14-SOIC	.54	.40	.35
CD4030BM96	296-24348-1-ND	Quad Exclusive OR Gate* ***NEW!***	14-SOIC	.52	.37	.32
CD4030BM96	296-24348-2-ND	Quad Exclusive OR Gate* ***NEW!***	14-SOIC	367.50/2,500		
CD4030BNSR	296-14102-1-ND	Quad Exclusive OR Gate	14-SOP	.58	.41	.35
CD4030BNSR	296-14102-2-ND	Quad Exclusive OR Gate	14-SOP	326.00/2,000		
CD4031BE	296-2162-5-ND	CMOS 64-Stage Static Shift Register	16-Dip	1.43	1.15	1.01
CD4033BE	296-14264-5-ND	Decade Counter/Divider	16-Dip	1.43	1.15	1.01
CD4034BE	296-14237-ND	CMOS 8-Stage Static Bidirectional Parallel/Serial I/O Bus Register	24-Dip	1.43	1.15	1.01
CD4035BE	296-2163-5-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-Dip	1.43	1.15	1.01
CD4040BE	296-2048-5-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-Dip	.55	.41	.35
CD4040BM96	296-25944-1-ND	12-Stage CMOS Ripple-Carry Binary Counter/Divider* ***NEW!***	16-SOIC	.54	.38	.33
CD4040BM96	296-25944-2-ND	12-Stage CMOS Ripple-Carry Binary Counter/Divider* ***NEW!***	16-SOIC	380.00/2,500		
CD4040BPWR	296-12761-1-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	.54	.38	.33
CD4040BPWR	296-12761-2-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	304.00/2,000		
CD4041UBE	296-2164-5-ND	Quad True/Complement Buffer	14-Dip	1.37	1.10	.97
CD4042BE	296-2049-5-ND	Quad D-Type Latch	16-Dip	.59	.44	.38
CD4043BE	296-2050-5-ND	Tri-State Quad NOR R/S Latch	16-Dip	.59	.44	.38
CD4043BDW	296-14269-5-ND	Tri-State Quad NOR R/S Latch	16-SOIC	.60	.45	.39
CD4043BNSR	296-14105-1-ND	Tri-State Quad NOR R/S Latch	16-SOP	.65	.46	.39
CD4043BPWR	296-14106-1-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	.59	.42	.36
CD4043BPWR	296-14106-2-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	334.00/2,000		
CD4044BE	296-2051-5-ND	Quad NAND R/S Latch	16-Dip	.59	.44	.38
CD4044BNSR	296-12762-1-ND	Quad NAND R/S Latch	16-SOP	.65	.46	.39
CD4044BNSR	296-12762-2-ND	Quad NAND R/S Latch	16-SOP	366.00/2,000		
CD4045BE	296-3512-5-ND	Divide by N-Counter	16-Dip	.59	.44	.38
CD4046BE	296-2052-5-ND	Micropower Phase Lock Loop	16-Dip	.59	.44	.38
CD4046BNSR	296-14108-1-ND	Micropower Phase Lock Loop	16-SOP	.65	.46	.39
CD4046BNSR	296-14108-2-ND	Micropower Phase Lock Loop	16-SOP	366.00/2,000		
CD4046BPWR	296-14109-1-ND	Micropower Phase Lock Loop	16-TSSOP	.59	.42	.36
CD4046BPWR	296-14109-2-ND	Micropower Phase Lock Loop	16-TSSOP	334.00/2,000		
CD4047BE	296-2053-5-ND	CMOS Low Power Monostable/Astable Multivibrator	14-Dip	.55	.41	.35
CD4047BNSR	296-14110-1-ND	CMOS LP Monostable/Astable Multivibrator	14-SOP	.63	.44	.38
CD4047BNSR	296-14110-2-ND	CMOS LP Monostable/Astable Multivibrator	14-SOP	354.00/2,000		
CD4047BPWR	296-13642-1-ND	CMOS LP Monostable/Astable Multivibrator	14-TSSOP	.58	.41	.35

* RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4047BPWR	296-13642-2-ND	CMOS LP Monostable/Astable Multivibrator	14-TSSOP	326.00/2,000		
CD4048BE	296-2054-5-ND	Expandable 8-Input Gate	16-Dip	.59	.44	.38
CD4049UBD	296-25945-5-ND	CMOS Hex Buffer/Converter* ***NEW!***	16-SOIC	.56	.42	.36
CD4049UBE	296-2055-5-ND	Hex Inverting Buffer/Converter	16-Dip	.55	.41	.35
CD4049UBNSR	296-14112-1-ND	Hex Inverting Buffer/Converter	16-SOP	.59	.42	.36
CD4049UBNSR	296-14112-2-ND	Hex Inverting Buffer/Converter	16-SOP	334.00/2,000		
CD4049UBPWR	296-25946-1-ND	CMOS Hex Buffer/Converter* ***NEW!***	16-TSSOP	.54	.38	.33
CD4049UBPWR	296-25946-2-ND	CMOS Hex Buffer/Converter* ***NEW!***	16-TSSOP	304.00/2,000		
CD4050BE	296-2056-5-ND	Hex Non-Inverting Buffer/Converter	16-Dip	.55	.41	.35
CD4050BDWR	296-14270-1-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	.54	.38	.33
CD4050BDWR	296-14270-2-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	304.00/2,000		
CD4050BNSR	296-14113-1-ND	Hex Non-Inverting Buffer/Converter	16-SOP	.59	.42	.36
CD4050BNSR	296-14113-2-ND	Hex Non-Inverting Buffer/Converter	16-SOP	334.00/2,000		
CD4051BE	296-2057-5-ND	8-Channel Analog Mux/Demux	16-Dip	.55	.41	.35
CD4051BM	296-25947-5-ND	8-Channel Analog Mux/Demux* ***NEW!***	16-SOIC	.56	.42	.36
CD4051BM96	296-14271-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.54	.38	.33
CD4051BM96	296-14271-2-ND	8-Channel Analog Mux/Demux	16-SOIC	380.00/2,500		
CD4051BNSR	296-14115-1-ND	8-Channel Analog Mux/Demux	16-SOP	.59	.42	.36
CD4051BNSR	296-14115-2-ND	8-Channel Analog Mux/Demux	16-SOP	334.00/2,000		
CD4051BPWR	296-11993-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.54	.38	.33
CD4051BPWR	296-11993-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	304.00/2,000		
CD4052BE	296-2058-5-ND	4-Channel Analog Mux/Demux	16-Dip	.55	.41	.35
CD4052BM	296-25949-5-ND	4-Ch. Analog Mux/Demux* ***NEW!***	16-SOIC	.56	.42	.36
CD4052BM96	296-14272-1-ND	4-Channel Analog Mux/Demux	16-SOIC	.54	.38	.33
CD4052BM96	296-14272-2-ND	4-Channel Analog Mux/Demux	16-SOIC	380.00/2,500		
CD4052BPWR	296-14273-1-ND	4-Channel Analog Mux/Demux	16-TSSOP	.54	.38	.33
CD4052BPWR	296-14273-2-ND	4-Channel Analog Mux/Demux	16-TSSOP	304.00/2,000		
CD4053BE	296-2059-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.41	.35
CD4053BM	296-25950-5-ND	Triple 2-Channel Analog Mux/Demux* ***NEW!***	16-SOIC	.56	.42	.36
CD4053BM96	296-14274-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.54	.38	.33
CD4053BM96	296-14274-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	380.00/2,500		
CD4053BPWR	296-14117-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.54	.38	.33
CD4053BPWR	296-14117-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	304.00/2,000		
CD4054BE	296-3514-5-ND	CMOS 4-Segment LCD Driver	16-Dip	.55	.41	.35
CD4055BE	296-14275-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.59	.44	.38
CD4056BE	296-14118-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.59	.44	.38
CD4059AE	296-3515-5-ND	CMOS Prog. Divide-by-N Counter	24-Dip	3.64	2.93	2.67
CD4060BE	296-2060-5-ND	14-Stage Ripple Counter/Divider and Oscillator	16-Dip	.55	.41	.35
CD4060BPWR	296-14119-1-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	.54	.38	.33
CD4060BPWR	296-14119-2-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	304.00/2,000		
CD4063BE	296-14120-5-ND	4-Bit Magnitude Comparator	16-Dip	.55	.41	.35
CD4066BE	296-2061-5-ND	Quad Bilateral Switch	14-Dip	.51	.38	.33
CD4066BM	296-3516-5-ND	Quad Bilateral Switch	14-SOIC	.54	.40	.35
CD4066BM96	296-14475-1-ND	Quad Bilateral Switch	14-SOIC	.52	.37	.32
CD4066BM96	296-14475-2-ND	Quad Bilateral Switch	14-SOIC	367.50/2,500		
CD4066BNSR	296-14122-1-ND	Quad Bilateral Switch	14-SOP	.58	.41	.35
CD4066BNSR	296-14122-2-ND	Quad Bilateral Switch	14-SOP	326.00/2,000		
CD4066BPW	296-25952-5-ND	Quad Bilateral Switch* ***NEW!***	14-TSSOP	.54	.40	.35
CD4066BPWR	296-14123-1-ND	Quad Bilateral Switch	14-TSSOP	.52	.37	.32
CD4066BPWR	296-14123-2-ND	Quad Bilateral Switch	14-TSSOP	294.00/2,000		
CD4067BE	296-3517-5-ND	Single 16-Channel Analog Mux/Demux	24-Dip	1.39	1.11	.98
CD4068BE	296-14124-5-ND	8-Input NAND/AND Gate	14-Dip	.51	.38	.33
CD4068BM96	296-15355-1-ND	8-Input NAND/AND Gate	14-SOIC	.52	.37	.32
CD4068BM96	296-15355-2-ND	8-Input NAND/AND Gate	14-SOIC	367.50/2,500		
CD4068BNSR	296-14125-1-ND	8-Input NAND/AND Gate	14-SOP	.58	.41	.35
CD4068BNSR	296-14125-2-ND	8-Input NAND/AND Gate	14-SOP	326.00/2,000		
CD4069UBE	296-3518-5-ND	Hex Inverter	14-Dip	.51	.38	.33
CD4069UBM	296-3519-5-ND	Hex Inverter	14-SOIC	.54	.40	.35
CD4069UBM96	296-14476-1-ND	Hex Inverter	14-SOIC	.52	.37	.32
CD4070BE	296-14128-5-ND	Quad Exclusive OR Gate	14-Dip	.51	.38	.33
CD4070BM	296-14276-5-ND	Quad Exclusive OR Gate	14-SOIC	.54	.40	.35
CD4071BE	296-2062-5-ND	Quad 2-Input OR Gate	14-Dip	.51	.38	.33
CD4071BM	296-14278-5-ND	Quad 2-Input OR Gate	14-SOIC	.54	.40	.35
CD4071BM96	296-25953-1-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	.52	.37	.32
CD4071BM96	296-25953-2-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	367.50/2,500		
CD4071BNSR	296-14130-1-ND	Quad 2-Input OR Gate	14-SOP	.58	.41	.35
CD4071BNSR	296-14130-2-ND	Quad 2-Input OR Gate	14-SOP	326.00/2,000		
CD4071BPW	296-14131-5-ND	Quad 2-Input OR Gate	14-TSSOP	.54	.40	.35
CD4071BPWR	296-24349-1-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.52	.37	.32
CD4071BPWR	296-24349-2-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	294.00/2,000		
CD4072BE	296-2063-5-ND	Dual 4-Input OR Gate	14-Dip	.51	.38	.33
CD4072BM	296-25954-5-ND	Dual 4-Input OR Gate* ***NEW!***	14-SOIC	.54	.40	.35
CD4072BNSR	296-14132-1-ND	Dual 4-Input OR Gate	14-SOP	.58	.41	.35
CD4072BNSR	296-14132-2-ND	Dual 4-Input OR Gate	14-SOP	326.00/2,000		
CD4073BE	296-2064-5-ND	Triple 3-Input AND Gate	14-Dip	.51	.38	.33
CD4073BM	296-3520-5-ND	Triple 3-Input AND Gate	14-SOIC	.54	.40	.35
CD4073BPWR	296-14134-1-ND	Triple 3-Input AND Gate	14-TSSOP	.52	.37	.32
CD4075BE	296-2065-5-ND	Triple 3-Input OR Gate	14-Dip	.51	.38	.33
CD4075BM	296-14279-5-ND	Triple 3-Input OR Gate	14-SOIC	.54	.40	.35
CD4075BNSR	296-14136-1-ND	Triple 3-Input OR Gate	14-SOP	.58	.41	.35
CD4075BNSR	296-14136-2-ND	Triple 3-Input OR Gate	14-SOP	326.00/2,000		
CD4076BE	296-14137-5-ND	4-Bit D-Type Register	16-Dip	.55	.41	.35
CD4077BE	296-13771-5-ND	CMOS Quad Exclusive NOR Gate	14-Dip	.51	.38	.33
CD4077BM	296-9406-5-ND	CMOS Quad Exclusive NOR Gate	14-SOIC	.54	.40	.35
CD4078BE	296-3521-5-ND	8-Input NOR/OR Gate	14-Dip	.51	.38	.33
CD4078BM	296-14138-5-ND	8-Input NOR/OR Gate	14-SOIC	.54	.40	.35
CD4078BNSR	296-14139-1-ND	8-Input NOR/OR Gate	14-SOP	.58	.41	.35
CD4081BE	296-2066-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.38	.33
CD4081BM	296-14280-5-ND	Quad 2-Input AND Gate	14-SOIC	.54	.40	.35
CD4081BM96	296-25955-1-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	.52	.37	.32
CD4081BM96	296-25955-2-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	367.50/2,500		
CD4081BNSR	296-14140-1-ND	Quad 2-Input AND Gate	14-SOP	.58	.41	.35
CD4081BNSR	296-14140-2-ND	Quad 2-Input AND Gate	14-SOP	326.00/2,000		
CD4081BPWR	296-14141-1-ND	Quad 2-Input AND Gate	14-TSSOP	.52	.37	.32
CD4081BPWR	296-14141-2-ND	Quad 2-Input AND Gate	14-TSSOP	294.00/2,000		
CD4082BE	296-2067-5-ND	Dual 4-Input AND Gate	14-Dip	.51	.38	.33
CD4085BE	296-3522-5-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-Dip	.51	.38	.33
CD4085BPWR	296-14143-1-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP	1.44	1.14	1.03

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4086BE	296-14281-5-ND	Expandable 4-Wide/2-Input AND/OR Invert Gate	14-Dip	1.37	1.10	.97
CD4089BE	296-2165-5-ND	Binary Rate Multiplier	16-Dip	.55	.41	.35
CD4089BPWR	296-3523-1-ND	Binary Rate Multiplier	16-TSSOP	.54	.38	.33
CD4093BE	296-2068-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.51	.38	.33
CD4093BM	296-3524-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.54	.40	.35
CD4093BM96	296-25956-1-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-SOIC	.52	.37	.32
CD4093BM96	296-25956-2-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-SOIC	367.50/2,500		
CD4093BNSR	296-14145-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	.58	.41	.35
CD4093BNSR	296-14145-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	326.00/2,000		
CD4093BPW	296-14146-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.54	.40	.35
CD4093BPWR	296-13873-1-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.52	.37	.32
CD4093BPWR	296-13873-2-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	294.00/2,000		
CD4093BQM96G4Q1	296-24699-1-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-SOIC	.57	.41	.35
CD4093BQM96G4Q1	296-24699-2-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-SOIC	402.50/2,500		
CD4094BE	296-2069-5-ND	8-Bit Shift Register with Latch	16-Dip	.55	.41	.35
CD4094BPWR	296-13860-1-ND	8-Bit Shift Register with Latch	16-TSSOP	.54	.38	.33
CD4094BPWR	296-13860-2-ND	8-Bit Shift Register with Latch	16-TSSOP	304.00/2,000		
CD4097BE	296-3525-5-ND	Diff. 8-Channel Analog Mux/Demux	24-Dip	1.39	1.11	.98
CD4098BE	296-3526-5-ND	Dual Monostable Multivibrator	16-Dip	.59	.44	.38
CD4098BM	296-16736-5-ND	Dual Monostable Multivibrator	16-SOIC	.60	.45	.39
CD4099BE	296-2070-5-ND	8-Bit Addressable Latch	16-Dip	.59	.44	.38
CD4099BPWR	296-9407-1-ND	8-Bit Addressable Latch	16-TSSOP	.59	.42	.36
CD4502BE	296-2166-5-ND	CMOS Strobed Hex Inverter/Buffer	16-Dip	.59	.44	.38
CD4502BM	296-25958-5-ND	CMOS Strobed Hex Inverter/Buffer* ***NEW!***	16-SOIC	.60	.45	.39
CD4503BE	296-2071-5-ND	Tri-State Hex Buffer	16-Dip	.59	.44	.38
CD4504BE	296-3527-5-ND	Hex Voltage-Level Shifter	16-Dip	.59	.44	.38
CD4504BM	296-25959-5-ND	Hex Voltage-Level Shifter* ***NEW!***	16-SOIC	.60	.45	.39
CD4504BM96	296-14150-1-ND	Hex Voltage-Level Shifter	16-SOIC	.59	.42	.36
CD4504BM96	296-14150-2-ND	Hex Voltage-Level Shifter	16-SOIC	417.50/2,500		
CD4504BPW	296-23203-5-ND	Hex Voltage-Level Shifter	16-TSSOP	.60	.45	.39
CD4508BE	296-14151-5-ND	Dual 4-Bit Latch	24-Dip	1.43	1.15	1.01
CD4510BPWR	296-14153-1-ND	BCD Presettable Up/Down Counter	16-TSSOP	.59	.42	.36
CD4510BPWR	296-14153-2-ND	BCD Presettable Up/Down Counter	16-TSSOP	334.00/2,000		
CD4511BE	296-2072-5-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-Dip	.59	.44	.38
CD4511BNSR	296-3528-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	.65	.46	.39
CD4511BNSR	296-3528-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	366.00/2,000		
CD4512BE	296-2073-5-ND	8-Channel Data Selector	16-Dip	.59	.44	.38
CD4512BM96	296-16676-1-ND	8-Channel Data Selector	16-SOIC	.59	.42	.36
CD4512BM96	296-16676-2-ND	8-Channel Data Selector	16-SOIC	417.50/2,500		
CD4514BE	296-2074-5-ND	4-Bit Latch/Line Decoder	24-Dip	1.25	1.01	.88
CD4514BM	296-14282-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.60	.45	.39
CD4515BE	296-2168-5-ND	4-Bit Latch/Line Decoder	24-Dip	1.25	1.01	.88
CD4515BM	296-14284-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.60	.45	.39
CD4516BE	296-2075-5-ND	Binary Up/Down Counter	16-Dip	.59	.44	.38
CD4517BE	296-14285-5-ND	Dual 64-Stage Static Shift Register	16-Dip	.59	.44	.38
CD4518BE	296-2076-5-ND	Dual BCD Up Counter	16-Dip	.59	.44	.38
CD4518BNSR	296-14157-1-ND	Dual BCD Up Counter	16-SOP	.65	.46	.39
CD4518BNSR	296-14157-2-ND	Dual BCD Up Counter	16-SOP	366.00/2,000		
CD4520BE	296-2077-5-ND	Dual Binary Up Counter	16-Dip	.59	.44	.38
CD4521BE	296-14158-5-ND	24-Stage Frequency Divider	16-Dip	.59	.44	.38
CD4522BE	296-3531-5-ND	Programmable BCD Divide-by-N Counter	16-Dip	.59	.44	.38
CD4527BE	296-3532-5-ND	BCD Rate Multiplier	16-Dip	.59	.44	.38
CD4527BNSR	296-14159-1-ND	BCD Rate Multiplier	16-SOP	.65	.46	.39
CD4532BE	296-3533-5-ND	8-Bit Priority Encoder	16-Dip	.59	.44	.38
CD4536BE	296-3534-5-ND	CMOS Programmable Timer	16-Dip	.59	.44	.38
CD4536BNSR	296-14304-1-ND	CMOS Programmable Timer	16-SOP	.65	.46	.39
CD4536BNSR	296-14304-2-ND	CMOS Programmable Timer	16-SOP	366.00/2,000		
CD4541BE	296-2078-5-ND	Programmable Timer	14-Dip	.51	.38	.33
CD4541BM	296-3535-5-ND	Programmable Timer	14-SOIC	.54	.40	.35
CD4541BM96	296-3536-1-ND	Programmable Timer	14-SOIC	.52	.37	.32
CD4541BM96	296-3536-2-ND	Programmable Timer	14-SOIC	367.50/2,500		
CD4543BE	296-2079-5-ND	BCD to 7-Segment Decoder Driver	16-Dip	.55	.41	.35
CD4543BPWR	296-17106-1-ND	BCD to 7-Segment Decoder Driver	16-TSSOP	.54	.38	.33
CD4555BE	296-14286-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.59	.44	.38
CD4556BE	296-3537-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.59	.44	.38
CD4572UBE	296-14287-5-ND	CMOS Hex Gate	16-Dip	1.43	1.15	1.01
CD4585BE	296-2080-5-ND	4-Bit Magnitude Comparator	16-Dip	.59	.44	.38
CD4724BE	296-2169-5-ND	8-Bit Addressable Latch	16-Dip	1.43	1.15	1.01
CD14538BE	296-14074-5-ND	Dual Prec. Monostable Multivibrator	16-Dip	.80	.62	.54
CD14538BNSR	296-14075-1-ND	Dual Prec. Monostable Multivibrator	16-SOP	.97	.75	.66
CD14538BNSR	296-14075-2-ND	Dual Prec. Monostable Multivibrator	16-SOP	638.00/2,000		
CD14538BPWR	296-12018-1-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	.88	.68	.60
CD14538BPWR	296-12018-2-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	580.00/2,000		
CD40102BE	296-14079-5-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-Dip	1.43	1.15	1.01
CD40102BPWR	296-14241-1-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP	1.49	1.18	1.06
CD40103BE	296-14080-5-ND	8-Bit Binary 8-Stage Sync. Down Counter	16-Dip	1.43	1.15	1.01
CD40105BE	296-14242-5-ND	CMOS FIFO Register	16-Dip	1.39	1.11	.98
CD40106BE	296-3503-5-ND	Hex Schmitt Trigger	14-Dip	.51	.38	.33
CD40106BM	296-25935-5-ND	CMOS Hex Schmitt Trigger* ***NEW!***	14-SOIC	.54	.40	.35
CD40106BM96	296-14081-1-ND	Hex Schmitt Trigger	14-SOIC	.52	.37	.32
CD40106BM96	296-14081-2-ND	Hex Schmitt Trigger	14-SOIC	367.50/2,500		
CD40106BPWR	296-14082-1-ND	Hex Schmitt Trigger	14-TSSOP	.52	.37	.32
CD40106BPWR	296-14082-2-ND	Hex Schmitt Trigger	14-TSSOP	294.00/2,000		
CD40107BE	296-3504-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.53	.39	.34
CD40107BM	296-25937-5-ND	Dual 2-Input NAND Buffer/Driver* ***NEW!***	8-SOIC	.54	.40	.35
CD40107BPSR	296-14083-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	.58	.41	.35
CD40107BPSR	296-14083-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	326.00/2,000		
CD40109BE	296-3505-5-ND	Quad Low-High Voltage Level Shifter	16-Dip	.55	.41	.35
CD40109BPWR	296-12163-1-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	.54	.38	.33
CD40109BPWR	296-12163-2-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	304.00/2,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD40110BE	296-3506-5-ND	Decade Up-Down Counter/Latch/Display Driver	16-Dip	1.56	1.25	1.10
CD40117BE	296-14244-5-ND	Programmable Dual 4-Bit Terminator	14-Dip	1.37	1.10	.97
CD40147BE	296-14247-5-ND	10-4 BCD Priority Encoder	16-Dip	.59	.44	.38
CD40161BE	296-2170-5-ND	Synchronous 4-Bit Binary Counter	16-Dip	.57	.43	.37
CD40161BNSR	296-14091-1-ND	Synchronous 4-Bit Binary Counter	16-SOP	.63	.44	.38
CD40161BNSR	296-14091-2-ND	Synchronous 4-Bit Binary Counter	16-SOP	354.00/2,000		
CD40174BE	296-3508-5-ND	Hex D-Type Flip-Flop	16-Dip	.59	.44	.38
CD40175BE	296-14251-5-ND	Quad D-Type Flip-Flop	16-Dip	.59	.44	.38
CD40192BE	296-3509-5-ND	Presettable Up/Down BCD Counter (Dual Clock with Reset)	16-Dip	.59	.44	.38
CD40192BNSR	296-14096-1-ND	Presettable Up/Down Counter	16-SOP	.65	.46	.39
CD40193BE	296-3510-5-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-Dip	.59	.44	.38
CD40193BPWR	296-14253-1-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP	.59	.42	.36
CD40194BE	296-14254-5-ND	4-Bit Bidirectional Univ. Shift Register	16-Dip	1.43	1.15	1.01
CD40257BE	296-14259-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	1.43	1.15	1.01
D24051QM96G4Q1	296-24416-1-ND	CMOS Analog Mux/Demux* ***NEW!***	16-SOIC	.70	.49	.42
D24051QM96G4Q1	296-24416-2-ND	CMOS Analog Mux/Demux* ***NEW!***	16-SOIC	492.50/2,500		
D24066QM96G4Q1	296-24332-1-ND	Quad Bilateral Switch* ***NEW!***	14-SOIC	.86	.67	.59
D24066QM96G4Q1	296-24332-2-ND	Quad Bilateral Switch* ***NEW!***	14-SOIC	710.00/2,500		
HCT4066QPWRG4Q1	296-24331-1-ND	Quad Bilateral Switch* ***NEW!***	14-TSSOP	.86	.67	.59
HCT4066QPWRG4Q1	296-24331-2-ND	Quad Bilateral Switch* ***NEW!***	14-TSSOP	568.00/2,000		
ABT Family						
SN74ABT125D	296-1019-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.95	.74	.65
SN74ABT125DR	296-1019-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.87	.68	.60
SN74ABT125DR	296-1019-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	717.50/2,500		
SN74ABT125DBR	296-3875-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.96	.75	.66
SN74ABT125DBR	296-3875-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	632.00/2,000		
SN74ABT125N	296-3876-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.87	.68	.59
SN74ABT125PW	296-26369-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.95	.74	.65
SN74ABT125PWR	296-3877-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.87	.68	.60
SN74ABT125PWR	296-3877-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	574.00/2,000		
SN74ABT126DR	296-1020-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.87	.68	.60
SN74ABT126DR	296-1020-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	717.50/2,500		
SN74ABT126DBR	296-3878-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.96	.75	.66
SN74ABT126N	296-3879-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.87	.68	.59
SN74ABT126RGYR	296-13889-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.96	.75	.66
SN74ABT240ADBR	296-3959-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.06	.83	.73
SN74ABT240ADW	296-3960-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.92	.74	.65
SN74ABT240AN	296-3961-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.97	.76	.66
SN74ABT241ADW	296-3964-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.92	.74	.65
SN74ABT241ADWR	296-14663-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.97	.75	.66
SN74ABT241AN	296-3965-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.97	.76	.66
SN74ABT241APWR	296-3966-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.97	.75	.66
SN74ABT244ADBR	296-1037-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.97	.75	.66
SN74ABT244ADBR	296-1037-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	638.00/2,000		
SN74ABT244ADW	296-1038-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.75	.65
SN74ABT244ADWR	296-1038-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.68	.60
SN74ABT244ADWR	296-1038-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	580.00/2,000		
SN74ABT244AN	296-3967-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.69	.60
SN74ABT244ANSR	296-15878-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.97	.75	.66
SN74ABT244ANSR	296-15878-2-ND	Tri-State Octal Buffer/Driver	20-SOP	638.00/2,000		
SN74ABT244APWR	296-3968-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.68	.60
SN74ABT244APWR	296-3968-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	580.00/2,000		
SN74ABT245BDBR	296-1039-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.87	.68	.60
SN74ABT245BDBR	296-1039-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	574.00/2,000		
SN74ABT245BDW	296-1040-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.86	.67	.59
SN74ABT245BDWR	296-1040-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.79	.62	.54
SN74ABT245BDWR	296-1040-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	522.00/2,000		
SN74ABT245BMDBREP	296-22246-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.52	1.20	1.08
SN74ABT245BN	296-3970-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.79	.62	.54
SN74ABT245BNSR	296-15879-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.87	.68	.60
SN74ABT245BNSR	296-15879-2-ND	Tri-State Octal Bus Transceiver	20-SOP	574.00/2,000		
SN74ABT245BPW	296-26372-5-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-TSSOP	.86	.67	.59
SN74ABT245BPWR	296-3971-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.79	.62	.54
SN74ABT245BPWR	296-3971-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	522.00/2,000		
SN74ABT273DBR	296-1041-1-ND	Octal D-Type Flip-Flop	20-SSOP	.97	.75	.66
SN74ABT273DBR	296-1041-2-ND	Octal D-Type Flip-Flop	20-SSOP	638.00/2,000		
SN74ABT273DW	296-1042-5-ND	Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
SN74ABT273DWR	296-1042-1-ND	Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74ABT273DWR	296-1042-2-ND	Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74ABT273N	296-3972-5-ND	Octal D-Type Flip-Flop	20-Dip	.88	.69	.60
SN74ABT373DW	296-1043-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.96	.75	.65
SN74ABT373DWR	296-1043-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.88	.68	.60
SN74ABT373DWR	296-1043-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	580.00/2,000		
SN74ABT373N	296-4003-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.69	.60
SN74ABT373PWR	296-4004-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.88	.68	.60
SN74ABT374ADW	296-1044-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.74	.65
SN74ABT374ADWR	296-1044-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.97	.75	.66
SN74ABT374ADWR	296-1044-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	638.00/2,000		
SN74ABT374AN	296-4006-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.97	.76	.66
SN74ABT374APWR	296-4007-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.97	.75	.66
SN74ABT374APWR	296-4007-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	638.00/2,000		
SN74ABT377AN	296-4010-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-Dip	.88	.69	.60
SN74ABT377APWR	296-4011-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	.88	.68	.60
SN74ABT377APWR	296-4011-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	580.00/2,000		
SN74ABT533ADW	296-4013-5-ND	Tri-State Transparent D-Type Latch	20-SOIC	.96	.75	.65
SN74ABT534ADW	296-4016-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.74	.65
SN74ABT540DBR	296-4022-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.96	.76	.69
SN74ABT540DBR	296-4022-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	708.00/2,000		
SN74ABT540DW	296-4023-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.97	.78	.68
SN74ABT540DWR	296-14667-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.01	.79	.69
SN74ABT540N	296-4024-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.89	.71	.62
SN74ABT541BDBR	296-4025-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.06	.84	.76
SN74ABT541BDBR	296-4025-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	778.00/2,000		
SN74ABT541BDW	296-4026-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.06	.86	.75
SN74ABT541BDWR	296-14668-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.76	.69
SN74ABT541BDWR	296-14668-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	708.00/2,000		
SN74ABT541BN	296-4027-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.97	.78	.69
SN74ABT541BPW	296-26373-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	1.06	.86	.75
SN74ABT541BPWR	296-4028-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.76	.69
SN74ABT541BPWR	296-4028-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	708.00/2,000		
SN74ABT543ADBR	296-4029-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.25	.99	.90
SN74ABT543ADW	296-4030-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.26	1.01	.89
SN74ABT543ANT	296-4031-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.68	1.35	1.18
SN74ABT543APWR	296-4032-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.14	.90	.81
SN74ABT573ADW	296-1045-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.96	.75	.65
SN74ABT573ADWR	296-1045-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.88	.68	.60
SN74ABT573ADWR	296-1045-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	580.00/2,000		
SN74ABT573ARGYR	296-13891-1-ND	Tri-State Octal D-Type Latch	20-VQFN	.97	.75	.66
SN74ABT573AN	296-4034-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.69	.60
SN74ABT573APWR	296-4035-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.88	.68	.60
SN74ABT573APWR	296-4035-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	580.00/2,000		
SN74ABT574ADBR	296-4036-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.97	.75	.66
SN74ABT574ADW	296-1046-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
SN74ABT574ADWR	296-1046-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74ABT574ADWR	296-1046-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74ABT574AN	296-4038-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.88	.69	.60
SN74ABT574ARGYR	296-13892-1-ND	Tri-State Octal D-Type Flip-Flop	20-VQFN	.97	.75	.66
SN74ABT620DW	296-4041-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.58	1.26	1.11
SN74ABT620N	296-4042-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.58	1.26	1.11
SN74ABT623DW	296-4044-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.86	1.50	1.35
SN74ABT623N	296-4045-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.71	1.38	1.24
SN74ABT640DW	296-4047-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.86	1.50	1.35
SN74ABT640N	296-4048-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.71	1.38	1.24
SN74ABT640PWR	296-4049-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.75	1.35	1.23
SN74ABT646ADW	296-4052-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	2.02	1.63	1.47
SN74ABT646ANT	296-4053-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	2.17	1.75	1.58
SN74ABT646DGVR	296-4055-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1.93	1.49	1.35
SN74ABT646DW	296-4056-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	2.02	1.63	1.47
SN74ABT646NT	296-4057-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	2.33	1.88	1.69
SN74ABT651DW	296-4060-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	4.76	3.83	3.49
SN74ABT651NT	296-4061-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	4.76	3.83	3.49
SN74ABT652ADBR	296-4062-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.93	1.49	1.35
SN74ABT652ADW	296-1047-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.86	1.50	1.35
SN74ABT652ADWR	296-1047-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.79	1.41	1.27
SN74ABT652ADWR	296-1047-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	1316.00/2,000		
SN74ABT652ANT	296-4063-5-ND	Tri-State Octal Registered Transceiver	24-Dip	2.17	1.75	1.58
SN74ABT652DW	296-4065-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.86	1.50	1.35
SN74ABT652DWR	296-4065-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.79	1.41	1.27
SN74ABT652NT	296-4066-5-ND	Tri-State Octal Transceiver/Register	24-Dip	2.17	1.75	1.58
SN74ABT657ADW	296-4068-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2.80	2.25	2.05
SN74ABT657ANT	296-4069-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-Dip	2.94	2.37	2.16
SN74ABT821ADBR	296-4088-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	2.28	1.76	1.60
SN74ABT821ADW	296-4089-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOP	2.17	1.75	1.58
SN74ABT821ANT	296-4090-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-Dip	2.33	1.88	1.69
SN74ABT823DBR	296-1048-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	2.45	1.89	1.72
SN74ABT823DBR	296-1048-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	1890.00/2,000		
SN74ABT823DW	296-4091-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	2.48	2.00	1.80
SN74ABT823DWR	296-14678-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	2.28	1.76	1.60
SN74ABT823NT	296-4092-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-Dip	2.17	1.75	1.58
SN74ABT827DW	296-4095-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	2.48	2.00	1.80
SN74ABT827NT	296-4096-5-ND	Tri-State 10-Bit Buffer/Driver	24-Dip	2.17	1.75	1.58
SN74ABT827PWR	296-4097-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	2.28	1.76	1.60
SN74ABT833DW	296-4098-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	2.33	1.88	1.69
SN74ABT833NT	296-4099-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	2.48	2.00	1.80
SN74ABT841ADBR	296-1049-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	2.28	1.76	1.60
SN74ABT841ADBR	296-1049-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	1756.00/2,000		
SN74ABT841ADW	296-4100-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	2.17	1.75	1.58
SN74ABT841ANT	296-4101-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-Dip	2.48	2.00	1.80
SN74ABT843NT	296-4104-5-ND	Tri-State 9-Bit Bus D-Type Latch	24-Dip	2.48	2.00	1.80
SN74ABT853DW	296-4105-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	6.44	5.18	4.72
SN74ABT853NT	296-4106-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	6.30	5.07	4.62
SN74ABT861NT	296-4109-5-ND	Tri-State 10-Bit Transceiver	24-Dip	2.94	2.37	2.16
SN74ABT2240ADW	296-3946-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.92	.74	.65
SN74ABT2240ANSR	296-13128-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	1.06	.83	.73
SN74ABT2241DW	296-3949-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.92	.74	.65
SN74ABT2241N	296-3950-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.97	.76	.66
SN74ABT2241PWR	296-3951-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.97	.75	.66
SN74ABT2244ADBR	296-1036-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	1.06	.83	.73
SN74ABT2244ADBR	296-1036-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	702.00/2,000		
SN74ABT2244ADW	296-26371-5-ND	Tri-State Octal Buffer/Line/MOS Driver* ***NEW!***	20-SOIC	.92	.74	.65
SN74ABT2244ADWR	296-3952-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.97	.75	.66
SN74ABT2244AN	296-3953-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.97	.76	.66
SN74ABT2244APWR	296-3954-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.97	.75	.66
SN74ABT2244APWR	296-3954-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2245DW	296-3956-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	.92	.74	.65
SN74ABT2245N	296-3957-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-Dip	.97	.76	.66
SN74ABT2245PWR	296-3958-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	.97	.75	.66
SN74ABT2245PWR	296-3958-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2952ADW	296-3976-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	6.72	5.40	4.92
SN74ABT2952ADWR	296-14665-1-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	6.00	4.90	4.40
SN74ABT2952ANT	296-3977-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	6.50	5.33	4.81
SN74ABT5401DW	296-4019-5-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	4.48	3.60	3.28
SN74ABT5403DWR	296-4021-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	5.25	4.29	3.85
SN74ABT5403DWR	296-4021-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	2450.00/1,000		
SN74ABT8245DW	296-4093-5-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	7.88	6.46	5.83
SN74ABT8543DL	296-4107-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SSOP	13.97	11.75	10.80
SN74ABT8543DW	296-4108-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	12.87	10.83	9.95
SN74ABT8646DL	296-4112-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	12.13	9.95	8.98
SN74ABT8646DW	296-4113-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SOIC	12.13	9.95	8.98
SN74ABT8652DL	296-4114-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	13.97	11.75	10.80
SN74ABT8952DL	296-4115-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SSOP	13.97	11.75	10.80
SN74ABT8952DW	296-4116-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	12.87	10.83	9.95
SN74ABT8996DW	296-4117-5-ND	10-Bit Addressable Scan Port	24-SOIC	11.00	9.25	8.50
SN74ABT8996PWR	296-4118-1-ND	10-Bit Addressable Scan Port	24-TSSOP	11.50	9.75	9.00
SN74ABT16240ADGGR	296-3882-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74ABT16241ADL	296-3887-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74ABT16241ADLR	296-14651-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.67	1.32	1.19
SN74ABT16244ADGGR	296-1023-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74ABT16244ADGGR	296-1023-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1120.00/2,000		
SN74ABT16244ADGVR	296-3888-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.52	1.20	1.08
SN74ABT16244ADL	296-1024-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74ABT16244ADLR	296-1024-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.67	1.32	1.19
SN74ABT16244ADLR	296-1024-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	660.00/1,000		

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T.I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
SN74ABT16245ADGGR	296-1025-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.52	1.20	1.08
SN74ABT16245ADGGR	296-1025-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1120.00/2,000		
SN74ABT16245ADGVR	296-3889-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.52	1.20	1.08
SN74ABT16245ADGVR	296-3889-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1120.00/2,000		
SN74ABT16245ADL	296-1026-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
SN74ABT16245ADLR	296-1026-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.67	1.32	1.19
SN74ABT16245ADLR	296-1026-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	660.00/1,000		
SN74ABT16373ADGGR	296-3899-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.67	1.32	1.19
SN74ABT16373ADGGR	296-3899-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1232.00/2,000		
SN74ABT16373ADL	296-1029-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.86	1.50	1.35
SN74ABT16373ADLR	296-1029-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.84	1.46	1.31
SN74ABT16373ADLR	296-1029-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	726.00/1,000		
SN74ABT16374ADL	296-1030-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.86	1.50	1.35
SN74ABT16470DL	296-3902-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	12.25	10.05	9.07
SN74ABT16500BDL	296-3904-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.62	3.72	3.39
SN74ABT16501DLR	296-1031-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.95	4.05	3.63
SN74ABT16501DLR	296-1031-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2310.00/1,000		
SN74ABT16541ADL	296-1032-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.58	1.26	1.11
SN74ABT16541ADLR	296-1032-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.35	1.22
SN74ABT16541ADLR	296-1032-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	675.00/1,000		
SN74ABT16543DL	296-26370-5-ND	Tri-State 16-Bit Registered Transceiver* ***NEW!***	56-SSOP	2.48	2.00	1.80
SN74ABT16543DLR	296-1033-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.45	1.89	1.72
SN74ABT16543DLR	296-1033-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1015.00/1,000		
SN74ABT16601DGGR	296-1034-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	7.29	6.05	5.50
SN74ABT16601DGGR	296-1034-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	7150.00/2,000		
SN74ABT16601DL	296-3913-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	8.88	7.28	6.57
SN74ABT16601DLR	296-14656-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	7.95	6.60	6.00
SN74ABT16623DL	296-3915-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	7.00	5.74	5.18
SN74ABT16623DLR	296-3915-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	7.20	5.88	5.28
SN74ABT16646DLR	296-1035-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	3.15	2.58	2.31
SN74ABT16646DLR	296-1035-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1470.00/1,000		
SN74ABT16652DL	296-3919-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	3.64	2.93	2.67
SN74ABT16652DLR	296-14657-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	3.90	3.19	2.86
SN74ABT16652DLR	296-14657-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1820.00/1,000		
SN74ABT16821DGGR	296-3922-1-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-TSSOP	4.50	3.68	3.30
SN74ABT16825DL	296-3926-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.94	2.37	2.16
SN74ABT16825DLR	296-14658-1-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	3.15	2.58	2.31
SN74ABT16841DL	296-3930-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	4.76	3.83	3.49
SN74ABT16952DGGR	296-3935-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	4.80	3.92	3.52
SN74ABT18245ADGGR	296-3937-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	11.40	9.46	8.60
SN74ABT18245ADL	296-3938-5-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	12.32	10.36	9.52
SN74ABT18245ADLR	296-3938-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	12.59	10.45	9.50
SN74ABT18245ADLR	296-3938-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	6413.00/1,000		
SN74ABT18502PM	296-3939-ND	Scan Test Device with 18-Bit Registered Bus Transceiver	64-LQFP	22.80	19.38	17.96
SN74ABT18504PM	296-3940-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	17.60	14.80	13.60
SN74ABT18640DL	296-3942-5-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-SSOP	13.42	11.29	10.37
SN74ABT18646PM	296-3943-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	20.13	16.93	15.56
SN74ABT18652PM	296-3944-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	20.13	16.93	15.56
SN74ABT162244DGGR	296-9752-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74ABT162244DGGR	296-9752-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1120.00/2,000		
SN74ABT162244DL	296-1021-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74ABT162244DLR	296-1021-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.67	1.32	1.19
SN74ABT162244DLR	296-1021-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	660.00/1,000		
SN74ABT162245DGGR	296-9753-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.52	1.20	1.08
SN74ABT162245DGGR	296-9753-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1120.00/2,000		
SN74ABT162245DL	296-9754-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
SN74ABT162245DLR	296-1022-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.67	1.32	1.19
SN74ABT162245DLR	296-1022-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	660.00/1,000		
SN74ABT162500DL	296-3890-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	5.60	4.50	4.10
SN74ABT162501DGGR	296-3891-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.95	4.05	3.63
SN74ABT162501DLR	296-1027-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.95	4.05	3.63
SN74ABT162501DLR	296-1027-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2310.00/1,000		
SN74ABT162601DGG	296-22717-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5.99	4.82	4.39
SN74ABT162601DLR	296-1028-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	7.05	5.76	5.17
SN74ABT162601DLR	296-1028-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3290.00/1,000		
SN74ABT162827ADGGR	296-3895-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	6.30	5.15	4.62
SN74ABT162827ADGGR	296-3895-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	5586.00/2,000		
SN74ABT162827ADL	296-3896-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	4.48	3.60	3.28
SN74ABT162841DGGR	296-3897-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	3.60	2.94	2.64
SN74ABT162841DL	296-3898-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	3.36	2.70	2.46
ABTE Family						
SN74ABTE16245DGGR	296-9755-1-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	11.93	9.90	9.00
SN74ABTE16245DGGR	296-9755-2-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	11700.00/2,000		
SN74ABTE16245DL	296-9756-5-ND	Tri-St. 16-Bit Incident-Wave Bus Xcvr.	48-SSOP	12.76	10.73	9.86
SN74ABTE16246DGGR	296-4119-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	12.08	10.24	9.45
SN74ABTE16246DGGR	296-4119-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	13388.00/2,000		
SN74ABTE16246DL	296-4120-5-ND	Tri-St. 11-Bit Incident-Wave Bus Xcvr.	48-SSOP	14.96	12.58	11.56
ABTH Family						
SN74ABTH245DBR	296-4138-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.02	.79	.70
SN74ABTH245DWR	296-4140-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.92	.72	.63
SN74ABTH245N	296-4141-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.92	.72	.63
SN74ABTH25245DW	296-4143-5-ND	Tri-State 25-Ohm Octal Bus Transcvr.	24-SOIC	6.63	5.44	4.91
SN74ABTH25245NT	296-4144-5-ND	Tri-State 25-Ohm Octal Bus Transcvr.	24-Dip	6.50	5.33	4.81
SN74ABTH32245PZ	296-4145-ND	Tri-State 36-Bit Bus Transceiver	100-LQFP	20.00	17.00	15.75
SN74ABTH32316PN	296-4146-ND	Tri-Port 16-Bit Univ. Bus Exchanger	80-LQFP	20.73	17.62	16.33
SN74ABTH32543PZ	296-4147-ND	Tri-St. 36-Bit Registered Bus Transcvr.	100-LQFP	21.00	17.85	16.54
SN74ABTH16244DL	296-4123-5-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74ABTH16245DL	296-4126-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.86	1.50	1.35
SN74ABTH16260DL	296-1446-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	11.63	9.54	8.61
SN74ABTH16460DL	296-4128-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	11.11	9.35	8.59
SN74ABTH32318PN	296-1447-5-ND	18-Bit Tri-Port Univ. Bus Exchange	80-LQFP	19.25	16.19	14.88
SN74ABTH32501PZ	296-1448-5-ND	36-Bit Bus Transceiver	100-LQFP	22.00	18.70	17.33
SN74ABTH162245DGGR	296-1050-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.63	1.29	1.17
SN74ABTH162245DGGR	296-1050-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1204.00/2,000		
SN74ABTH162245DL	296-1445-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.66	1.33	1.16
SN74ABTH162260DLR	296-1051-1-ND	12-24-Bit Mux D-Type Latch	56-SSOP	6.63	5.50	5.00
SN74ABTH162260DLR	296-1051-2-ND	Tri-State 12-24 Bit Mux. D-Type Latch	56-SSOP	3375.00/1,000		
SN74ABTH182502APM	296-4131-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	20.46	17.21	15.81
SN74ABTH182504APM	296-4132-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	20.46	17.21	15.81
SN74ABTH182646APM	296-4133-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	20.20	17.17	15.91
SN74ABTH18502APM	296-4134-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	20.39	17.15	15.76
SN74ABTH18504APM	296-4135-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	20.39	17.15	15.76
SN74ABTH18646APM	296-4136-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	18.15	15.27	14.03
SN74ABTH18652APM	296-4137-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	18.15	15.27	14.03
SN74ABTH25245DWR	296-14684-1-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-SOIC	6.60	5.39	4.84
ABTR Family						
SN74ABTR2245DW	296-4149-5-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SOIC	.88	.71	.62
SN74ABTR2245PWR	296-4150-1-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-TSSOP	.92	.72	.63
AC Family						
74AC11004DW	296-4152-5-ND	Hex Inverter	20-SOIC	2.79	2.25	2.03
74AC11004DWR	296-4152-1-ND	Hex Inverter	20-SOIC	2.63	2.03	1.84
74AC11004N	296-4153-5-ND	Hex Inverter	20-Dip	2.48	2.00	1.80
74AC11008N	296-4154-5-ND	Quad 2-Input Positive AND Gate	16-Dip	2.48	2.00	1.80
74AC11008PWR	296-4155-1-ND	Quad 2-Input Positive AND Gate	16-TSSOP	2.63	2.03	1.84
74AC11032D	296-4156-5-ND	Quad 2-Input OR Gate	16-SOIC	2.79	2.25	2.03
74AC11032N	296-4158-5-ND	Quad 2-Input OR Gate	16-Dip	2.48	2.00	1.80
74AC11074D	296-4159-5-ND	Dual D-Type Flip-Flop	14-SOIC	2.33	1.88	1.69
74AC11086D	296-4161-5-ND	Quad 2-Input Exclusive OR Gate	16-SOIC	2.79	2.25	2.03
74AC11138N	296-4162-5-ND	3-8 Decoder/Demultiplexer	16-Dip	2.95	2.38	2.14
74AC11240DBR	296-4167-1-ND	Octal Buffer/Line Driver	24-SSOP	4.20	3.43	3.08
74AC11240DBR	296-4167-2-ND	Octal Buffer/Line Driver	24-SSOP	3724.00/2,000		
74AC11244DW	296-4169-5-ND	Octal Buffer/Line Driver	24-SOIC	3.50	2.82	2.57
74AC11244PWR	296-1000-1-ND	Octal Buffer/Line Driver	24-TSSOP	3.15	2.58	2.31
74AC11244PWR	296-1000-2-ND	Octal Buffer/Line Driver	24-TSSOP	2794.00/2,000		
74AC11245DW	296-4170-5-ND	Octal Bus Transceiver	24-SOIC	4.20	3.38	3.08
74AC16244DGGR	296-15845-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.93	1.49	1.35
74AC16244DGGR	296-15845-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1485.00/2,000		
74AC16244DL	296-4173-5-ND	16-Bit Buffer/Line Driver	48-SSOP	2.33	1.88	1.69
74AC16245DL	296-4174-5-ND	16-Bit Bus Transceiver	48-SSOP	2.48	2.00	1.80
CD74AC00E	296-4214-5-ND	Quad 2-Input NAND Gate	14-Dip	.62	.48	.42
CD74AC00M	296-4215-5-ND	Quad 2-Input NAND Gate	14-SOIC	.67	.53	.46
CD74AC00M96	296-4215-1-ND	Quad 2-Input NAND Gate	14-SOIC	.77	.54	.47
CD74AC00M96	296-4215-2-ND	Quad 2-Input NAND Gate	14-SOIC	542.50/2,500		
CD74AC02M96	296-4216-1-ND	Quad 2-Input NOR Gate	14-SOIC	.77	.54	.47
CD74AC02M96	296-4216-2-ND	Quad 2-Input NOR Gate	14-SOIC	542.50/2,500		
CD74AC04E	296-4217-5-ND	Hex Inverter	14-Dip	.62	.48	.42
CD74AC04M	296-25960-5-ND	Hex Inverter* ***NEW!***	14-SOIC	.67	.53	.46
CD74AC04M96	296-4218-1-ND	Hex Inverter	14-SOIC	.77	.54	.47
CD74AC04M96	296-4218-2-ND	Hex Inverter	14-SOIC	542.50/2,500		
CD74AC05E	296-4219-5-ND	Hex Inverter	14-Dip	.62	.48	.42
CD74AC05M	296-4220-5-ND	Hex Inverter	14-SOIC	.67	.53	.46
CD74AC05M96	296-24350-1-ND	Hex Inverter* ***NEW!***	14-SOIC	.77	.54	.47
CD74AC05M96	296-24350-2-ND	Hex Inverter* ***NEW!***	14-SOIC	542.50/2,500		
CD74AC08M	296-1377-5-ND	Quad 2-Input AND Gate	14-SOIC	.67	.53	.46
CD74AC08M96	296-14477-1-ND	Quad 2-Input AND Gate	14-SOIC	.77	.54	.47
CD74AC10M96	296-4222-1-ND	Triple 3-Input NAND Gate	14-SOIC	.75	.58	.51
CD74AC14M	296-1981-5-ND	Hex Inverter Schmitt Trigger	14-SOIC	.67	.53	.46
CD74AC14M96	296-1981-1-ND	Hex Inverter Schmitt Trigger	14-SOIC	.77	.54	.47
CD74AC14M96	296-1981-2-ND	Hex Inverter Schmitt Trigger	14-SOIC	542.50/2,500		
CD74AC20E	296-4237-5-ND	Dual 4-Input NAND Gate	14-Dip	.62	.48	.42
CD74AC20M	296-4238-5-ND	Dual 4-Input NAND Gate	14-SOIC	.67	.53	.46
CD74AC32M96	296-1985-1-ND	Quad 2-Input OR Gate	14-SOIC	.77	.54	.47
CD74AC32M96	296-1985-2-ND	Quad 2-Input OR Gate	14-SOIC	542.50/2,500		
CD74AC74M	296-4249-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.67	.53	.46
CD74AC74M96	296-14484-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.77	.54	.47
CD74AC74M96	296-14484-2-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	542.50/2,500		
CD74AC109M96	296-4221-1-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.77	.54	.47
CD74AC109M96	296-4221-2-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	542.50/2,500		
CD74AC112E	296-4223-5-ND	Dual JK Flip-Flop with Set/Reset	16-Dip	.66	.52	.45
CD74AC112M	296-4224-5-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.72	.56	.49
CD74AC138E	296-4225-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.62	.48	.42
CD74AC138M	296-4226-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.67	.53	.46
CD74AC138M96	296-25961-1-ND	3-8 Line Decoder/Demux* ***NEW!***	16-SOIC	.77	.54	.47
CD74AC138M96	296-25961-2-ND	3-8 Line Decoder/Demux* ***NEW!***	16-SOIC	542.50/2,500		
CD74AC139M96	296-4227-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.66	.51	.45
CD74AC151M96	296-4228-1-ND	8-1 Line Data Selector/Mux	16-SOIC	.92	.72	.63
CD74AC151M96	296-4228-2-ND	8-1 Line Data Selector/Mux	16-SOIC	762.50/2,500		
CD74AC153M96	296-4229-1-ND	Dual 4-Input Multiplexer	16-SOIC	.84	.65	.57
CD74AC153M96	296-4229-2-ND	Dual 4-Input Multiplexer	16-SOIC	688.75/2,500		
CD74AC157E	296-4230-5-ND	Quad 2-Input Multiplexer	16-Dip	.79	.62	.54
CD74AC157M	296-4231-5-ND	Quad 2-Input Multiplexer	16-SOIC	.86	.67	.59
CD74AC161M	296-4232-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.77	.60	.52
CD74AC161M96	296-25962-1-ND	4-Bit Sync. Binary Counter* ***NEW!***	16-SOIC	.70	.55	.48
CD74AC161M96	296-25962-2-ND	4-Bit Sync. Binary Counter* ***NEW!***	16-SOIC	580.00/2,500		
CD74AC163E	296-4233-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.70	.55	.48
CD74AC163M96	296-4234-1-ND	4-Bit Synchronous Binary Counter	16-SOIC	.70	.55	.48
CD74AC163M96	296-4234-2-ND	4-Bit Synchronous Binary Counter	16-SOIC	580.00/2,500		
CD74AC164E	296-4235-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.70	.55	.48
CD74AC174E	296-4236-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.94	.73	.64
CD74AC238M96	296-4239-1-ND	3-8 Line Decoder/Demux	16-SOIC	.77	.54	.47
CD74AC238M96	296-4239-2-ND	3-8 Line Decoder/Demux	16-SOIC	542.50/2,500		
CD74AC240M	296-4240-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.96	.75	.65
CD74AC244M96	296-14479-1-ND	Tri-State Non-Inverting Octal Buffer/ Line Driver	20-SOIC	.88	.68	.60

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T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
CD74AC244M96	296-14479-2-ND	Tri-State Non-Inverting Octal Buffer/Line Driver	20-SOIC	580.00/2,000		
CD74AC245M96	296-14480-1-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	1.01	.79	.69
CD74AC245M96	296-14480-2-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	667.00/2,000		
CD74AC253M	296-4242-5-ND	Tri-State Dual 4-Input Mux	16-SOIC	.91	.71	.62
CD74AC257M	296-4243-5-ND	Tri-State Quad 2-Input Mux	16-SOIC	1.09	.88	.77
CD74AC273E	296-1378-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.96	.77	.68
CD74AC273M	296-25963-5-ND	Octal D-Type F/F with Reset* ***NEW!***	20-SOIC	1.05	.84	.74
CD74AC280E	296-4245-5-ND	9-Bit Odd/Even Parity-Generator/Checker	14-Dip	.97	.76	.66
CD74AC373M96	296-14482-1-ND	Tri-State Octal Transparent Latch	20-SOIC	1.01	.79	.69
CD74AC374M	296-9411-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.97	.78	.68
CD74AC541E	296-4248-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.69	.60
CD74AC541M	296-25965-5-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-SOIC	.96	.75	.65
CD74AC541M96	296-16677-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.88	.68	.60
CD74AC541M96	296-16677-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	580.00/2,000		
CD74AC573E	296-1379-5-ND	Octal Transparent Latch	20-Dip	.89	.71	.62
CD74AC573M96	296-14483-1-ND	Octal Transparent Latch	20-SOIC	1.01	.79	.69
SN74AC00D	296-1052-5-ND	Quad 2-Input NAND Gate	14-SOIC	.57	.42	.36
SN74AC00DR	296-1052-1-ND	Quad 2-Input NAND Gate	14-SOIC	.55	.39	.33
SN74AC00DR	296-1052-2-ND	Quad 2-Input NAND Gate	14-SOIC	387.50/2,500		
SN74AC00N	296-4287-5-ND	Quad 2-Input NAND Gate	14-Dip	.52	.39	.33
SN74AC00PWR	296-4288-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.55	.39	.33
SN74AC00PWR	296-4288-2-ND	Quad 2-Input NAND Gate	14-TSSOP	310.00/2,000		
SN74AC04D	296-1053-5-ND	Hex Inverter	14-SOIC	.57	.42	.36
SN74AC04DR	296-1053-1-ND	Hex Inverter	14-SOIC	.55	.39	.33
SN74AC04DR	296-1053-2-ND	Hex Inverter	14-SOIC	387.50/2,500		
SN74AC04DBR	296-4289-1-ND	Hex Inverter	14-SSOP	.61	.43	.37
SN74AC04MDREP	296-18122-1-ND	Hex Inverter	14-SOIC	1.75	1.35	1.23
SN74AC04N	296-4290-5-ND	Hex Inverter	14-Dip	.52	.39	.33
SN74AC04PWR	296-1054-1-ND	Hex Inverter	14-TSSOP	.55	.39	.33
SN74AC04PWR	296-1054-2-ND	Hex Inverter	14-TSSOP	310.00/2,000		
SN74AC08DR	296-1055-1-ND	Quad 2-Input AND Gate	14-SOIC	.50	.35	.30
SN74AC08DR	296-1055-2-ND	Quad 2-Input AND Gate	14-SOIC	350.00/2,500		
SN74AC08MDREP	296-22248-1-ND	Quad 2-Input AND Gate	14-SOIC	1.82	1.44	1.30
SN74AC08PWR	296-4292-1-ND	Quad 2-Input AND Gate	14-TSSOP	.50	.35	.30
SN74AC08PWR	296-4292-2-ND	Quad 2-Input AND Gate	14-TSSOP	280.00/2,000		
SN74AC10DR	296-4294-1-ND	Triple 3-Input NAND Gate	14-SOIC	.55	.39	.33
SN74AC11D	296-4297-5-ND	Triple 3-Input AND Gate	14-SOIC	.63	.47	.40
SN74AC11DR	296-4297-1-ND	Triple 3-Input AND Gate	14-SOIC	.61	.43	.37
SN74AC11PWR	296-4298-1-ND	Triple 3-Input AND Gate	14-TSSOP	.61	.43	.37
SN74AC11PWR	296-4298-2-ND	Triple 3-Input AND Gate	14-TSSOP	342.00/2,000		
SN74AC14D	296-4300-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.51	.38	.33
SN74AC14DR	296-4300-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.35	.30
SN74AC14DR	296-4300-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	350.00/2,500		
SN74AC14N	296-4301-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.47	.35	.30
SN74AC14PWR	296-4302-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.50	.35	.30
SN74AC14PWR	296-4302-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	280.00/2,000		
SN74AC32D	296-1059-5-ND	Quad 2-Input OR Gate	14-SOIC	.57	.42	.36
SN74AC32DBR	296-4317-1-ND	Quad 2-Input OR Gate	14-SSOP	.61	.43	.37
SN74AC32MDREP	296-22252-1-ND	Quad 2-Input OR Gate	14-SOIC	1.75	1.35	1.23
SN74AC32N	296-4318-5-ND	Quad 2-Input OR Gate	14-Dip	.52	.39	.33
SN74AC32PWR	296-4319-1-ND	Quad 2-Input OR Gate	14-TSSOP	.55	.39	.33
SN74AC32PWR	296-4319-2-ND	Quad 2-Input OR Gate	14-TSSOP	310.00/2,000		
SN74AC74D	296-1063-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.57	.42	.36
SN74AC74DR	296-1063-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.55	.39	.33
SN74AC74DR	296-1063-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	387.50/2,500		
SN74AC74MDREP	296-18123-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	1.96	1.52	1.38
SN74AC74N	296-4342-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.52	.39	.33
SN74AC74PWR	296-1064-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.55	.39	.33
SN74AC74PWR	296-1064-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	310.00/2,000		
SN74AC86D	296-4343-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.57	.42	.36
SN74AC86DBR	296-4344-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.61	.43	.37
SN74AC86N	296-4345-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.52	.39	.33
SN74AC86PWR	296-4346-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.55	.39	.33
SN74AC86PWR	296-4346-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	310.00/2,000		
SN74AC240DBR	296-4303-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.87	.68	.60
SN74AC240DW	296-4304-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.86	.67	.59
SN74AC240DWR	296-14686-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.79	.62	.54
SN74AC240DWR	296-14686-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	522.00/2,000		
SN74AC240N	296-4305-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.79	.62	.54
SN74AC240PWR	296-4306-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.79	.62	.54
SN74AC240PWR	296-4306-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	522.00/2,000		
SN74AC241DBR	296-4307-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.82	.64	.57
SN74AC241DW	296-1056-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.82	.64	.56
SN74AC241DWR	296-1056-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.75	.58	.51
SN74AC241DWR	296-1056-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	493.00/2,000		
SN74AC241N	296-4308-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.75	.58	.51
SN74AC241PWR	296-4309-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.75	.58	.51
SN74AC244DBR	296-4310-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	1.06	.83	.73
SN74AC244DWR	296-1057-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.97	.75	.66
SN74AC244DWR	296-1057-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	638.00/2,000		
SN74AC244MDWREP	296-22250-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	3.36	2.75	2.47
SN74AC244N	296-4311-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.97	.76	.66
SN74AC244NSR	296-4312-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1.06	.83	.73
SN74AC244NSR	296-4312-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	702.00/2,000		
SN74AC245DBR	296-4314-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.06	.83	.73
SN74AC245DW	296-1058-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.92	.74	.65
SN74AC245DWR	296-1058-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.97	.75	.66
SN74AC245DWR	296-1058-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74AC245N	296-4315-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.97	.76	.66
SN74AC245PWR	296-4316-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.97	.75	.66
SN74AC245PWR	296-4316-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	638.00/2,000		
SN74AC373DBR	296-4320-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.06	.83	.73
SN74AC373DWR	296-4321-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.97	.75	.66
SN74AC373DWR	296-4321-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	638.00/2,000		
SN74AC373MDWREP	296-22253-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	3.36	2.75	2.47
SN74AC373N	296-26376-5-ND	Tri-St. Octal D-Type Transparent Latch* ***NEW!***	20-Dip	.97	.76	.66
SN74AC373NSR	296-4322-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	1.06	.83	.73
SN74AC374DWR	296-1060-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74AC374DWR	296-1060-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74AC533DW	296-4327-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.86	1.50	1.35
SN74AC534DBR	296-4329-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.87	.68	.60
SN74AC534DW	296-4330-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.86	.67	.59
SN74AC534N	296-4331-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.79	.62	.54
SN74AC563DW	296-4334-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.68	1.35	1.18
SN74AC564DW	296-4336-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2.17	1.75	1.58
SN74AC573DBR	296-4337-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.97	.75	.66
SN74AC573DBR	296-4337-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	638.00/2,000		
SN74AC573DW	296-1061-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.96	.75	.65
SN74AC573DWR	296-1061-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.88	.68	.60
SN74AC573DWR	296-1061-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	580.00/2,000		
SN74AC573PWR	296-4338-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.88	.68	.60
SN74AC573PWR	296-4338-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	580.00/2,000		
SN74AC574DBR	296-4339-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.97	.75	.66
SN74AC574DW	296-1062-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
SN74AC574DWR	296-1062-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74AC574DWR	296-1062-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74AC574PWR	296-4340-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.88	.68	.60
SN74AC574PWR	296-4340-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	580.00/2,000		
ACT Family						
74ACT11000DR	296-14295-1-ND	Quad 2-Input NAND Gate	16-SOIC	2.63	2.03	1.84
74ACT11000DR	296-14295-2-ND	Quad 2-Input NAND Gate	16-SOIC	2532.50/2,500		
74ACT11004DW	296-4177-5-ND	Hex Inverter	20-SOIC	2.79	2.25	2.03
74ACT11008D	296-4178-5-ND	Quad 2-Input AND Gate	16-SOIC	2.79	2.25	2.03
74ACT11008N	296-4179-5-ND	Quad 2-Input AND Gate	16-Dip	2.48	2.00	1.80
74ACT11030DR	296-4180-1-ND	8-Input NAND Gate	14-SOIC	2.63	2.03	1.84
74ACT11032DR	296-4182-1-ND	Quad 2-Input Positive OR Gate	16-SOIC	2.63	2.03	1.84
74ACT11032N	296-4183-5-ND	Quad 2-Input Positive OR Gate	16-Dip	2.48	2.00	1.80
74ACT11074DBR	296-4184-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	2.80	2.16	1.96
74ACT11074NSR	296-13059-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	2.80	2.16	1.96
74ACT11139D	296-4185-5-ND	Dual 2-4 Decoder/Demux	16-SOIC	2.94	2.37	2.16
74ACT11139PWR	296-4186-1-ND	Dual 2-4 Decoder/Demux	16-TSSOP	2.98	2.30	2.09
74ACT11240DW	296-4187-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	4.34	3.49	3.18
74ACT11240NT	296-4188-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	4.34	3.49	3.18
74ACT11244DW	296-1001-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	3.64	2.93	2.67
74ACT11244DWR	296-1001-1-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	3.15	2.58	2.31
74ACT11244DWR	296-1001-2-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2794.00/2,000		
74ACT11244NT	296-4190-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	3.78	3.04	2.77
74ACT11244PWR	296-1002-1-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	3.15	2.58	2.31
74ACT11244PWR	296-1002-2-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	2794.00/2,000		
74ACT11245DW	296-4192-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	3.64	2.93	2.67
74ACT11245NT	296-4193-5-ND	Tri-State Octal Bus Transceiver	24-Dip	3.78	3.04	2.77
74ACT11245PWR	296-1003-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	3.15	2.58	2.31
74ACT11245PWR	296-1003-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2794.00/2,000		
74ACT11257DW	296-4195-5-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	3.50	2.82	2.57
74ACT11286D	296-4196-5-ND	9-Bit Parity Generator/Checker	14-SOIC	4.20	3.38	3.08
74ACT11373DW	296-4198-5-ND	Tri-St. Octal D-Type Transparent Latch	24-SOIC	3.64	2.93	2.67
74ACT11374DW	296-4199-5-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	4.34	3.49	3.18
74ACT16240DLR	296-14454-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.93	1.49	1.35
74ACT16240DLR	296-14454-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	798.00/1,000		
74ACT16244DGGR	296-1004-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	2.10	1.62	1.47
74ACT16244DGGR	296-1004-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1620.00/2,000		
74ACT16244DL	296-1005-5-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	2.48	2.00	1.80
74ACT16244DLR	296-1005-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	2.28	1.76	1.60
74ACT16245DGGR	296-4203-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.10	1.62	1.47
74ACT16245DGGR	296-4203-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
74ACT16245DLR	296-1006-1-ND	Tri-State 16-Bit Transceiver	48-SSOP	2.28	1.76	1.60
74ACT16245DLR	296-1006-2-ND	Tri-State 16-Bit Transceiver	48-SSOP	943.00/1,000		
74ACT16373DL	296-1007-5-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	2.17	1.75	1.58
74ACT16373DLR	296-1007-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	2.10	1.62	1.47
74ACT16373DLR	296-1007-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	870.00/1,000		
74ACT16374DL	296-1008-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	2.17	1.75	1.58
74ACT16374DLR	296-1008-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	2.10	1.62	1.47
74ACT16374DLR	296-1008-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	870.00/1,000		
74ACT16543DL	296-1009-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.48	2.00	1.80
74ACT16543DLR	296-1009-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.45	1.89	1.72
74ACT16543DLR	296-1009-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1015.00/1,000		
74ACT16623DLR	296-4204-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	7.82	6.49	5.90
74ACT16623DLR	296-4204-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3983.00/1,000		
74ACT16646DL	296-4205-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	5.88	4.73	4.31
74ACT16651DL	296-4206-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	13.31	11.20	10.29
74ACT16657DL	296-4207-5-ND	Tri-State 16-Bit Transceiver	56-SSOP	17.16	14.43	13.26
74ACT16823DL	296-4208-5-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	11.63	9.54	8.61
74ACT16823DLR	296-14457-1-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	10.20	8.47	7.70
74ACT16823DLR	296-14457-2-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	5198.00/1,000		
74ACT16825DL	296-4209-5-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	11.63	9.54	8.61
74ACT16825DLR	296-4209-1-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	10.20	8.47	7.70
74ACT16825DLR	296-4209-2-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	5198.00/1,000		
74ACT16841DL	296-4210-5-ND	Tri-State 20-Bit D-Type Latch	56-SSOP	11.63	9.54	8.61
74ACT16863DL	296-4212-5-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	9.63	7.90	7.13
CD74ACT00M	296-4250-5-ND	Quad 2-Input NAND Gate	14-SOIC	.67	.53	.46
CD74ACT00M96	296-14485-1-ND	Quad 2-Input NAND Gate	14-SOIC	.77	.54	.47
CD74ACT00M96	296-14485-2-ND	Quad 2-Input NAND Gate	14-SOIC	542.50/2,500		
CD74ACT02M	296-4251-5-ND	Quad 2-Input NOR Gate	14-SOIC	.67	.53	.46
CD74ACT04E	296-14487-5-ND	Hex Inverter	14-Dip	.62	.48	.42
CD74ACT04M	296-1983-5-ND	Hex Inverter	14-SOIC	.67	.53	.46
CD74ACT04M96	296-1983-1-ND	Hex Inverter	14-SOIC	.77	.54	.47
CD74ACT05E	296-12763-5-ND	Hex Inverter with Open-Drain	14-Dip	.62	.48	.42
CD74ACT05M	296-4252-5-ND	Hex Inverter with Open-Drain	14-SOIC	.67	.53	.46
CD74ACT08M	296-4253-5-ND	Quad 2-Input AND Gate	14-SOIC	.67	.53	.46
CD74ACT08M96	296-14489-1-ND	Quad 2-Input AND Gate	14-SOIC	.77	.54	.47
CD74ACT14E	296-12765-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.62	.48	.42

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.)

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
CD74ACT14M	296-1380-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.67	.53	.46
CD74ACT14M96	296-14492-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.77	.54	.47
CD74ACT14M96	296-14492-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	542.50/2,500		
CD74ACT20E	296-4266-5-ND	Dual 4-Input NAND Gate	14-Dip	.75	.58	.51
CD74ACT20M	296-4267-5-ND	Dual 4-Input NAND Gate	14-SOIC	.82	.64	.56
CD74ACT32M	296-4278-5-ND	Quad 2-Input OR Gate	14-SOIC	.67	.53	.46
CD74ACT32M96	296-14499-1-ND	Quad 2-Input OR Gate	14-SOIC	.77	.54	.47
CD74ACT32M96	296-14499-2-ND	Quad 2-Input OR Gate	14-SOIC	542.50/2,500		
CD74ACT74M	296-4285-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.67	.49	.42
CD74ACT74M96	296-14503-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.77	.54	.47
CD74ACT86E	296-4286-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.62	.48	.42
CD74ACT86M	296-25967-5-ND	Quad 2-Input Exclusive OR Gate* ***NEW!***	14-SOIC	.67	.53	.46
CD74ACT109M	296-4254-5-ND	Dual J-K Flip-Flop with Set/Reset	16-SOIC	.86	.67	.59
CD74ACT112M96	296-12764-1-ND	Dual, Neg., J-K Flip-Flop with Set/Reset	16-SOIC	.79	.62	.54
CD74ACT138E	296-14490-5-ND	3-8 Line Decoder/Demux	16-Dip	.66	.52	.45
CD74ACT138M	296-4255-5-ND	3-8 Line Decoder/Demux	16-SOIC	.72	.56	.49
CD74ACT138M96	296-14491-1-ND	3-8 Line Decoder/Demux	16-SOIC	.66	.51	.45
CD74ACT138M96	296-14491-2-ND	3-8 Line Decoder/Demux	16-SOIC	543.75/2,500		
CD74ACT139E	296-4256-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.66	.52	.45
CD74ACT139M	296-4257-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.72	.56	.49
CD74ACT151M96	296-12766-1-ND	8-1 Data Selectors/Multiplexer	16-SOIC	1.06	.82	.72
CD74ACT153E	296-4258-5-ND	Dual 4-Input Multiplexer	16-Dip	.79	.62	.54
CD74ACT153M	296-4259-5-ND	Dual 4-Input Multiplexer	16-SOIC	.86	.67	.59
CD74ACT157E	296-4260-5-ND	Quad 2-Input Multiplexer	16-Dip	.79	.62	.54
CD74ACT157M	296-4261-5-ND	Quad 2-Input Multiplexer	16-SOIC	.86	.67	.59
CD74ACT158M96	296-4262-1-ND	Quad 2-Input Multiplexer	16-SOIC	.79	.62	.54
CD74ACT161M	296-4263-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.77	.60	.52
CD74ACT163M	296-4264-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.77	.60	.52
CD74ACT164E	296-4265-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.79	.62	.54
CD74ACT164M	296-1381-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.86	.67	.59
CD74ACT241M96	296-4268-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.06	.82	.72
CD74ACT244E	296-4269-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.89	.71	.62
CD74ACT244M	296-4270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.97	.78	.68
CD74ACT245E	296-14496-5-ND	Tri-St. Octal Bus Non-Inverting Transceiver	20-Dip	1.00	.81	.71
CD74ACT245M	296-4271-5-ND	Tri-St. Octal Bus Non-Inverting Transceiver	20-SOIC	.92	.74	.65
CD74ACT245M96	296-14497-1-ND	Tri-St. Octal Bus Non-Inverting Transceiver	20-SOIC	.97	.75	.66
CD74ACT245M96	296-14497-2-ND	Tri-St. Octal Bus Non-Inverting Transceiver	20-SOIC	638.00/2,000		
CD74ACT253M	296-23204-5-ND	Tri-State Dual 4-Input Mux	16-SOIC	1.01	.81	.71
CD74ACT273E	296-4272-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.88	.69	.60
CD74ACT273M	296-4273-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.96	.75	.65
CD74ACT273M96	296-14498-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.88	.68	.60
CD74ACT273M96	296-14498-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	580.00/2,000		
CD74ACT283E	296-4275-5-ND	4-Bit Binary Adder with Fast-Carry	16-Dip	1.12	.90	.79
CD74ACT297M	296-4276-5-ND	Digital Phase-Locked Loop	16-SOIC	2.80	2.25	2.05
CD74ACT299M	296-4277-5-ND	8-In Universal Shift/Storage Register	20-SOIC	1.51	1.21	1.06
CD74ACT374E	296-4279-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	1.00	.81	.71
CD74ACT541E	296-1382-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.69	.60
CD74ACT541M	296-4280-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.96	.75	.65
CD74ACT541M96	296-14501-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.88	.68	.60
CD74ACT541M96	296-14501-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	580.00/2,000		
CD74ACT573M	296-4282-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.80	.62	.54
CD74ACT652M	296-4284-5-ND	Tri-State Octal-Bus Transcvr/Register	24-SOIC	2.95	2.38	2.14
SN74ACT00D	296-1452-5-ND	Quad 2-Input NAND Gate	14-SOIC	.57	.42	.36
SN74ACT00DR	296-14690-1-ND	Quad 2-Input NAND Gate	14-SOIC	.55	.39	.33
SN74ACT00N	296-4348-5-ND	Quad 2-Input NAND Gate	14-Dip	.52	.39	.33
SN74ACT00PWR	296-4349-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.55	.39	.33
SN74ACT00PWR	296-4349-2-ND	Quad 2-Input NAND Gate	14-TSSOP	310.00/2,000		
SN74ACT00TDRQ1	296-24840-1-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.62	.44	.37
SN74ACT00TDRQ1	296-24840-2-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	435.00/2,500		
SN74ACT04D	296-1065-5-ND	Hex Inverter	14-SOIC	.51	.38	.33
SN74ACT04N	296-4351-5-ND	Hex Inverter	14-Dip	.47	.35	.30
SN74ACT04PW	296-4352-5-ND	Hex Inverter	14-TSSOP	.51	.38	.33
SN74ACT04PWR	296-4352-1-ND	Hex Inverter	14-TSSOP	.50	.35	.30
SN74ACT04PWR	296-4352-2-ND	Hex Inverter	14-TSSOP	280.00/2,000		
SN74ACT08D	296-1066-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.63	.47	.40
SN74ACT08DR	296-1066-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.61	.43	.37
SN74ACT08DR	296-1066-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	427.50/2,500		
SN74ACT08DBR	296-4353-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.67	.47	.40
SN74ACT08DBR	296-4353-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	376.00/2,000		
SN74ACT08N	296-4354-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.57	.43	.37
SN74ACT08PWR	296-4355-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.61	.43	.37
SN74ACT08PWR	296-4355-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	342.00/2,000		
SN74ACT10DR	296-4360-1-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.35	.30
SN74ACT10DR	296-4360-2-ND	Triple 3-Input NAND Gate	14-SOIC	350.00/2,500		
SN74ACT10DBR	296-4358-1-ND	Triple 3-Input NAND Gate	14-SSOP	.54	.39	.33
SN74ACT10PWR	296-4361-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.50	.35	.30
SN74ACT11D	296-1455-5-ND	Triple 3-Input AND Gate	14-SOIC	.57	.42	.36
SN74ACT11N	296-4363-5-ND	Triple 3-Input AND Gate	14-Dip	.52	.39	.33
SN74ACT14D	296-1068-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.51	.38	.33
SN74ACT14DR	296-1068-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.35	.30
SN74ACT14DR	296-1068-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	350.00/2,500		
SN74ACT14DBR	296-4367-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.54	.39	.33
SN74ACT14DBR	296-4367-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	306.00/2,000		
SN74ACT14N	296-4368-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.47	.35	.30
SN74ACT14PWR	296-4369-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.50	.35	.30
SN74ACT14PWR	296-4369-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	280.00/2,000		
SN74ACT32D	296-1074-5-ND	Quad 2-Input OR Gate	14-SOIC	.57	.42	.36
SN74ACT32DR	296-1074-1-ND	Quad 2-Input OR Gate	14-SOIC	.55	.39	.33
SN74ACT32DR	296-1074-2-ND	Quad 2-Input OR Gate	14-SOIC	387.50/2,500		
SN74ACT32DBR	296-4387-1-ND	Quad 2-Input OR Gate	14-SSOP	.61	.43	.37
SN74ACT32DBR	296-4387-2-ND	Quad 2-Input OR Gate	14-SSOP	342.00/2,000		
SN74ACT32N	296-4388-5-ND	Quad 2-Input OR Gate	14-Dip	.52	.39	.33
SN74ACT32PWR	296-4389-1-ND	Quad 2-Input OR Gate	14-TSSOP	.55	.39	.33
SN74ACT32PWR	296-4389-2-ND	Quad 2-Input OR Gate	14-TSSOP	310.00/2,000		

TEXAS INSTRUMENTS DigiReel® (Cont.)

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74ACT74D	296-1079-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.57	.42	.36
SN74ACT74DR	296-1079-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.55	.39	.33
SN74ACT74N	296-4444-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.52	.39	.33
SN74ACT74PWR	296-4446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.55	.39	.33
SN74ACT74PWR	296-4446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	310.00/2,000		
SN74ACT86D	296-1463-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.57	.42	.36
SN74ACT86DBR	296-4502-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.61	.43	.37
SN74ACT86DR	296-9757-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.39	.33
SN74ACT86DR	296-9757-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	387.50/2,500		
SN74ACT86N	296-4503-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.52	.39	.33
SN74ACT86PWR	296-4504-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.55	.39	.33
SN74ACT86PWR	296-4504-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	310.00/2,000		
SN74ACT240DWR	296-4378-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.77	.54	.47
SN74ACT240N	296-4379-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.62	.48	.42
SN74ACT240PWR	296-4380-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.77	.54	.47
SN74ACT240PWR	296-4380-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	434.00/2,000		
SN74ACT241DW	296-4382-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.67	.53	.46
SN74ACT241N	296-4383-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.62	.48	.42
SN74ACT241PWR	296-4384-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.77	.54	.47
SN74ACT241PWR	296-4384-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	434.00/2,000		
SN74ACT244DBR	296-1069-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.97	.75	.66
SN74ACT244DBR	296-1069-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	638.00/2,000		
SN74ACT244DW	296-1070-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.75	.65
SN74ACT244DWR	296-1070-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.68	.60
SN74ACT244DWR	296-1070-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	580.00/2,000		
SN74ACT244MNSREP	296-22257-1-ND	Tri-State Octal Buffer/Driver	20-SOP	3.36	2.75	2.47
SN74ACT244MNSREP	296-22257-2-ND	Tri-State Octal Buffer/Driver	20-SOP	2980.00/2,000		
SN74ACT244N	296-4385-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.69	.60
SN74ACT244NSR	296-26381-1-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-SOP	.97	.75	.66
SN74ACT244NSR	296-26381-2-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-SOP	638.00/2,000		
SN74ACT244PWR	296-1071-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.68	.60
SN74ACT244PWR	296-1071-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	580.00/2,000		
SN74ACT245DBR	296-4386-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.97	.75	.66
SN74ACT245DBR	296-4386-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	638.00/2,000		
SN74ACT245DW	296-1072-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.75	.65
SN74ACT245DWR	296-1072-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.88	.68	.60
SN74ACT245N	296-1460-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.88	.69	.60
SN74ACT245PWR	296-1073-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.88	.68	.60
SN74ACT245PWR	296-1073-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	580.00/2,000		
SN74ACT373DW	296-4421-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.96	.75	.65
SN74ACT373N	296-4422-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.88	.69	.60
SN74ACT373PWR	296-1075-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.88	.68	.60
SN74ACT373PWR	296-1075-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	580.00/2,000		
SN74ACT374DBR	296-1076-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.97	.75	.66
SN74ACT374DBR	296-1076-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	638.00/2,000		
SN74ACT374DW	296-1077-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
SN74ACT374DWR	296-1077-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74ACT374DWR	296-1077-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74ACT533DW	296-4425-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.88	.71	.62
SN74ACT533N	296-4426-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.92	.72	.63
SN74ACT534DW	296-4429-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.71	.62
SN74ACT563DW	296-4432-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.88	.71	.62
SN74ACT564DW	296-4434-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.88	.71	.62
SN74ACT573DW	296-4437-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.96	.75	.65
SN74ACT573DWR	296-26384-1-ND	Tri-St. Octal D-Type Transparent Latch* ***NEW!***	20-SOIC	.88	.68	.60
SN74ACT573DWR	296-26384-2-ND	Tri-St. Octal D-Type Transparent Latch* ***NEW!***	20-SOIC	580.00/2,000		
SN74ACT573N	296-4438-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.88	.69	.60
SN74ACT573PWR	296-4439-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.88	.68	.60
SN74ACT573PWR	296-4439-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	580.00/2,000		
SN74ACT574DW	296-4441-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
SN74ACT574N	296-4442-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.88	.69	.60
SN74ACT574PWR	296-1078-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.88	.68	.60
SN74ACT574PWR	296-1078-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	580.00/2,000		
SN74ACT1284DW	296-1067-5-ND	Tri-State 7-Bit Bus Interface	20-SOIC	1.43	1.15	1.01
SN74ACT8990FN	296-4505-5-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	36.00	30.60	28.35
SN74ACT8990FNR	296-4505-1-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	36.00	32.40	29.70
SN74ACT8997DW	296-4506-5-ND	Scan Path Linker with 4-Bit ID	28-SOIC	11.00	9.25	8.50
SN74ACT8997DWR	296-15977-1-ND	Scan Path Linker with 4-Bit ID	28-SOIC	11.50	9.75	9.00
		AHC Family				
SN74AHC00D	296-26386-5-ND	Quad 2-Input Positve NAND Gate* ***NEW!***	14-SOIC	.44	.33	.28
SN74AHC00DBR	296-4507-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.62	.41	.34
SN74AHC00DGVR	296-4508-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.56	.37	.31
SN74AHC00DGVR	296-4508-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	254.00/2,000		
SN74AHC00DR	296-4509-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.56	.37	.31
SN74AHC00DR	296-4509-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	317.50/2,500		
SN74AHC00N	296-4510-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.55	.37	.30
SN74AHC00PWR	296-1080-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.56	.37	.31
SN74AHC00PWR	296-1080-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	254.00/2,000		
SN74AHC00QPWRG4Q1	296-24423-1-ND	Quad 2-Input Positive NAND Gate* ***NEW!***	14-TSSOP	.65	.43	.35
SN74AHC00QPWRG4Q1	296-24423-2-ND	Quad 2-Input Positive NAND Gate* ***NEW!***	14-TSSOP	294.00/2,000		
SN74AHC00RGYR	296-13893-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.62	.41	.34
SN74AHC02D	296-4511-5-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.33	.28
SN74AHC02DR	296-4511-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.37	.31
SN74AHC02DR	296-4511-2-ND	Quad 2-Input NOR Gate	14-SOIC	317.50/2,500		
SN74AHC02N	296-4514-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.37	.30
SN74AHC02PWR	296-4515-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.56	.37	.31
SN74AHC02PWR	296-4515-2-ND	Quad 2-Input NOR Gate	14-TSSOP	254.00/2,000		
SN74AHC02QPWRG4Q1	296-23529-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.65	.43	.35
SN74AHC02QPWRG4Q1	296-23529-2-ND	Quad 2-Input NOR Gate	14-TSSOP	294.00/2,000		
SN74AHC04D	296-4516-5-ND	Hex Inverter	14-SOIC	.44	.33	.28
SN74AHC04DR	296-4516-1-ND	Hex Inverter	14-SOIC	.56	.37	.31

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHC04N	296-4519-5-ND	Hex Inverter	14-Dip	.55	.37	.30
SN74AHC04PWR	296-1081-1-ND	Hex Inverter	14-TSSOP	.56	.37	.31
SN74AHC04PWR	296-1081-2-ND	Hex Inverter	14-TSSOP	254.00/2,000		
SN74AHC05D	296-1997-5-ND	Hex Inverter with OD Output	14-SOIC	.46	.34	.29
SN74AHC05DT	296-1997-1-ND	Hex Inverter with OD Output	14-SOIC	.58	.38	.32
SN74AHC05N	296-1464-5-ND	Hex Inverter with OD Output	14-Dip	.57	.38	.31
SN74AHC05PWR	296-4520-1-ND	Hex Inverter with OD Output	14-TSSOP	.58	.38	.32
SN74AHC05PWR	296-4520-2-ND	Hex Inverter with OD Output	14-TSSOP	264.00/2,000		
SN74AHC08D	296-4523-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.44	.33	.28
SN74AHC08DR	296-4523-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.56	.37	.31
SN74AHC08DR	296-4523-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	317.50/2,500		
SN74AHC08MDREP	296-22263-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	1.48	1.17	1.06
SN74AHC08N	296-4524-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.55	.37	.30
SN74AHC08NSR	296-13133-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.62	.41	.34
SN74AHC08NSR	296-13133-2-ND	Quad 2-Input Positive AND Gate	14-SOP	280.00/2,000		
SN74AHC08PWR	296-1082-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.56	.37	.31
SN74AHC08PWR	296-1082-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	254.00/2,000		
SN74AHC08RGYR	296-13896-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.62	.41	.34
SN74AHC14DBR	296-4548-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.62	.41	.34
SN74AHC14DBR	296-4548-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	280.00/2,000		
SN74AHC14DGVR	296-4549-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.56	.37	.31
SN74AHC14DGVR	296-4549-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	254.00/2,000		
SN74AHC14DR	296-1085-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.56	.37	.31
SN74AHC14DR	296-1085-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	317.50/2,500		
SN74AHC14MDREP	296-20768-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	1.48	1.17	1.06
SN74AHC14MPWREP	296-20706-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1.48	1.17	1.06
SN74AHC14N	296-4550-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.55	.37	.30
SN74AHC14NSR	296-26395-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	.62	.41	.34
SN74AHC14NSR	296-26395-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	280.00/2,000		
SN74AHC14PW	296-26396-5-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-TSSOP	.44	.33	.28
SN74AHC14PWR	296-1086-1-ND	Hex Schmitt Trigger Inverter	14-TSSOP	.56	.37	.31
SN74AHC14PWR	296-1086-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	254.00/2,000		
SN74AHC14QPWRG4Q1	296-24425-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-TSSOP	.65	.43	.35
SN74AHC14QPWRG4Q1	296-24425-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-TSSOP	294.00/2,000		
SN74AHC14QPWRQ1	296-13863-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.65	.43	.35
SN74AHC14QPWRQ1	296-13863-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	294.00/2,000		
SN74AHC1G32TDCKRQ1	296-25282-1-ND	Single 2-Input Pos. OR Gate* ***NEW!***	SC-70-5	.49	.32	.27
SN74AHC1G32TDCKRQ1	296-25282-2-ND	Single 2-Input Pos. OR Gate* ***NEW!***	SC-70-5	333.00/3,000		
SN74AHC32D	296-26405-5-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-SOIC	.63	.47	.40
SN74AHC32DR	296-4595-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.61	.43	.37
SN74AHC32DR	296-4595-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	427.50/2,500		
SN74AHC32MDREP	296-22271-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	1.48	1.17	1.06
SN74AHC32N	296-4596-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.57	.43	.37
SN74AHC32PWR	296-1099-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.61	.43	.37
SN74AHC32PWR	296-1099-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	342.00/2,000		
SN74AHC32QDRQ1	296-17497-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.70	.49	.42
SN74AHC32QDRQ1	296-17497-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	492.50/2,500		
SN74AHC32RGYR	296-13903-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.67	.47	.40
SN74AHC74D	296-1105-5-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.44	.33	.28
SN74AHC74DR	296-1105-1-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.56	.37	.31
SN74AHC74DR	296-1105-2-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	317.50/2,500		
SN74AHC74DBR	296-4621-1-ND	Dual D-Type F/F with Clear/Preset	14-SSOP	.62	.41	.34
SN74AHC74DGVR	296-4622-1-ND	Dual D-Type F/F with Clear/Preset	14-TVSOP	.56	.37	.31
SN74AHC74MPWREP	296-22274-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	1.48	1.17	1.06
SN74AHC74N	296-4623-5-ND	Dual D-Type F/F with Clear/Preset	14-Dip	.55	.37	.30
SN74AHC74PW	296-26410-5-ND	Dual D-Type F/F with Clear/ Preset* ***NEW!***	14-TSSOP	.44	.33	.28
SN74AHC74PWR	296-4624-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.56	.37	.31
SN74AHC74PWR	296-4624-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	254.00/2,000		
SN74AHC74QPWRG4Q1	296-24426-1-ND	Dual D-Type F/F with Clear/ Preset* ***NEW!***	14-TSSOP	.65	.43	.35
SN74AHC74QPWRG4Q1	296-24426-2-ND	Dual D-Type F/F with Clear/ Preset* ***NEW!***	14-TSSOP	294.00/2,000		
SN74AHC74QPWRQ1	296-17496-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.65	.43	.35
SN74AHC74QPWRQ1	296-17496-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	294.00/2,000		
SN74AHC74RGYR	296-13904-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.62	.41	.34
SN74AHC74RGYR	296-13904-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	420.00/3,000		
SN74AHC86D	296-4625-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.34	.29
SN74AHC86DR	296-4625-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.58	.38	.32
SN74AHC86DR	296-4625-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	330.00/2,500		
SN74AHC86DBR	296-4626-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.64	.42	.35
SN74AHC86N	296-4627-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.57	.38	.31
SN74AHC86PWR	296-4628-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.58	.38	.32
SN74AHC86PWR	296-4628-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	264.00/2,000		
SN74AHC123ADBR	296-4525-1-ND	Dual Retrig Monostable Multivibrator	16-SSOP	.61	.43	.37
SN74AHC123ADBR	296-4525-2-ND	Dual Retrig Monostable Multivibrator	16-SSOP	342.00/2,000		
SN74AHC123ADGVR	296-4526-1-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	.55	.39	.33
SN74AHC123ADGVR	296-4526-2-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	310.00/2,000		
SN74AHC123ADR	296-4527-1-ND	Dual Retrig Monostable Multivibrator	16-SOIC	.55	.39	.33
SN74AHC123ADR	296-4527-2-ND	Dual Retrig Monostable Multivibrator	16-SOIC	387.50/2,500		
SN74AHC123APWR	296-4528-1-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	.55	.39	.33
SN74AHC123APWR	296-4528-2-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	310.00/2,000		
SN74AHC125DBR	296-4529-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74AHC125DR	296-4530-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74AHC125DR	296-4530-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74AHC125MDREP	296-22266-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	2.17	1.68	1.52
SN74AHC125N	296-4531-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.57	.38	.31
SN74AHC125PWR	296-1083-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.58	.38	.32
SN74AHC125PWR	296-1083-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	264.00/2,000		
SN74AHC125QDRG4Q1	296-24735-1-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-SOIC	.51	.36	.31
SN74AHC125QDRG4Q1	296-24735-2-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-SOIC	357.50/2,500		
SN74AHC125QPWRG4Q1	296-24424-1-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.51	.36	.31
SN74AHC125QPWRG4Q1	296-24424-2-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	286.00/2,000		
SN74AHC125QPWRQ1	296-17494-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.51	.36	.31
SN74AHC125QPWRQ1	296-17494-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	286.00/2,000		
SN74AHC125RGYR	296-13897-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.64	.42	.35
SN74AHC126D	296-26392-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-SOIC	.46	.34	.29
SN74AHC126DR	296-4534-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74AHC126DR	296-4534-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74AHC126N	296-4535-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.57	.38	.31
SN74AHC132D	296-1465-5-ND	Quad NAND Gate	14-SOIC	.46	.34	.29
SN74AHC132DR	296-1465-1-ND	Quad NAND Gate	14-SOIC	.58	.38	.32
SN74AHC132DR	296-1465-2-ND	Quad NAND Gate	14-SOIC	330.00/2,500		
SN74AHC132N	296-1466-5-ND	Quad NAND Gate	14-Dip	.57	.38	.31
SN74AHC138D	296-4540-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74AHC138DR	296-4540-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74AHC138DR	296-4540-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74AHC138DBR	296-4541-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.64	.42	.35
SN74AHC138N	296-4542-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74AHC138PWR	296-1084-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74AHC138PWR	296-1084-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74AHC139D	296-4543-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74AHC139DGVR	296-4545-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.58	.38	.32
SN74AHC139N	296-4546-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74AHC139PWR	296-4547-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74AHC139PWR	296-4547-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74AHC139RGYR	296-13900-1-ND	Dual 2-4 Decoder/Demultiplexer	16-VQFN	.64	.42	.35
SN74AHC139RGYR	296-13900-2-ND	Dual 2-4 Decoder/Demultiplexer	16-VQFN	435.00/3,000		
SN74AHC157D	296-4551-5-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.57	.42	.36
SN74AHC157DR	296-14700-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.55	.39	.33
SN74AHC157DR	296-14700-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	387.50/2,500		
SN74AHC157N	296-4554-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.52	.39	.33
SN74AHC157NSR	296-13134-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	.61	.43	.37
SN74AHC157PWR	296-4555-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.55	.39	.33
SN74AHC157PWR	296-4555-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	310.00/2,000		
SN74AHC157RGYR	296-13902-1-ND	Quad 2-1 Data Selector/Multiplexer	16-VQFN	.61	.43	.37
SN74AHC157RGYR	296-13902-2-ND	Quad 2-1 Data Selector/Multiplexer	16-VQFN	513.00/3,000		
SN74AHC158DBR	296-4556-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.61	.43	.37
SN74AHC174D	296-1467-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.57	.42	.36
SN74AHC174N	296-1468-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.52	.39	.33
SN74AHC174PWR	296-12739-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.55	.39	.33
SN74AHC240DW	296-4580-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.38
SN74AHC240DWR	296-4580-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.58	.41	.35
SN74AHC240DWR	296-4580-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	326.00/2,000		
SN74AHC240N	296-4581-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.55	.41	.35
SN74AHC244DW	296-1096-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.38
SN74AHC244DWR	296-1096-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.58	.41	.35
SN74AHC244DWR	296-1096-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	326.00/2,000		
SN74AHC244MPWREP	296-22269-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	2.94	2.27	2.06
SN74AHC244N	296-4585-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.55	.41	.35
SN74AHC244PWR	296-1097-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.58	.41	.35
SN74AHC244PWR	296-1097-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	326.00/2,000		
SN74AHC244QDWRQ1	296-17495-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.67	.47	.40
SN74AHC244QDWRQ1	296-17495-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	376.00/2,000		
SN74AHC245DGVR	296-4587-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.58	.41	.35
SN74AHC245DGVR	296-4587-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	326.00/2,000		
SN74AHC245DW	296-4588-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.38
SN74AHC245N	296-4589-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.41	.35
SN74AHC245PWR	296-1098-1-ND	Tri-State Octal Transceiver	20-TSSOP	.58	.41	.35
SN74AHC245PWR	296-1098-2-ND	Tri-State Octal Transceiver	20-TSSOP	326.00/2,000		
SN74AHC273DGVR	296-4591-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.66	.51	.45
SN74AHC273DW	296-1470-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.52	.39	.33
SN74AHC273DWR	296-1470-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.61	.43	.37
SN74AHC273DWR	296-1470-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	341.00/2,000		
SN74AHC273N	296-1471-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.67	.49	.42
SN74AHC273PWR	296-4592-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.61	.43	.37
SN74AHC273PWR	296-4592-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	342.00/2,000		
SN74AHC373DW	296-4599-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.38
SN74AHC373N	296-4600-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.55	.41	.35
SN74AHC373PWR	296-1100-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.58	.41	.35
SN74AHC373PWR	296-1100-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	326.00/2,000		
SN74AHC374DBR	296-1101-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.64	.45	.39
SN74AHC374DBR	296-1101-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	360.00/2,000		
SN74AHC374N	296-4603-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74AHC374PWR	296-1102-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.58	.41	.35
SN74AHC374PWR	296-1102-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	326.00/2,000		
SN74AHC540DBR	296-4604-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.79	.56	.48
SN74AHC540DW	296-4605-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.62	.49	.43
SN74AHC540DWR	296-4605-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.51	.43
SN74AHC540DWR	296-4605-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	404.00/2,000		
SN74AHC540N	296-4606-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.68	.51	.43
SN74AHC540PWR	296-4607-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.72	.51	.43
SN74AHC540PWR	296-4607-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	404.00/2,000		
SN74AHC541DGVR	296-12740-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.72	.51	.43
SN74AHC541DGVR	296-12740-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	404.00/2,000		
SN74AHC541DWR	296-4609-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.51	.43
SN74AHC541DWR	296-4609-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	404.00/2,000		
SN74AHC541N	296-4610-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.68	.51	.43
SN74AHC541PWR	296-1103-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.72	.51	.43
SN74AHC541PWR	296-1103-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	404.00/2,000		
SN74AHC573DBR	296-4611-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.64	.45	.39
SN74AHC573DBR	296-4611-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	360.00/2,000		
SN74AHC573DW	296-4612-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.38
SN74AHC573DWR	296-4612-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.58	.41	.35
SN74AHC573DWR	296-4612-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	326.00/2,000		
SN74AHC573N	296-4613-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.55	.41	.35
SN74AHC573PWR	296-1104-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.58	.41	.35
SN74AHC573PWR	296-1104-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	326.00/2,000		
SN74AHC574DBR	296-4614-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.64	.45	.39
SN74AHC574DBR	296-4614-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	360.00/2,000		
SN74AHC574DW	296-26409-5-ND	Tri-State Octal D-Type F/F* ***NEW!***	20-SOIC	.60	.45	.38
SN74AHC574N	296-4616-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74AHC574PWR	296-4617-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.58	.41	.35
SN74AHC574PWR	296-4617-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	326.00/2,000		
SN74AHC594D	296-15394-5-ND	8-Bit Shift Register	16-SOIC	.68	.51	.44
SN74AHC594PW	296-23235-5-ND	8-Bit Shift Register	16-TSSOP	.68	.51	.44
SN74AHC595D	296-4618-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.68	.51	.44
SN74AHC595N	296-4619-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.63	.47	.40
SN74AHC595PWR	296-4620-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.66	.47	.40
SN74AHC595PWR	296-4620-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	372.00/2,000		
SN74AHC4066PWR	296-15257-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.66	.47	.40
SN74AHC4066PWR	296-15257-2-ND	Quad Bilateral Analog Switch	14-TSSOP	372.00/2,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHC16240DL	296-4562-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74AHC16244DGGR	296-4563-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.75	1.38	1.25
SN74AHC16244DGGR	296-4563-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1288.00/2,000		
SN74AHC16244DL	296-4565-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.86	1.50	1.35
SN74AHC16373DGGR	296-4566-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.75	1.38	1.25
SN74AHC16373DGGR	296-4566-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1288.00/2,000		
SN74AHC16373DGVR	296-4567-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.75	1.38	1.25
SN74AHC16373DL	296-4568-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.86	1.50	1.35
SN74AHC16374DL	296-4571-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.86	1.50	1.35
SN74AHC16540DGGR	296-4572-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.75	1.38	1.25
SN74AHC16540DL	296-4574-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74AHC16541DGGR	296-4575-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.75	1.38	1.25
SN74AHC16541DGGR	296-4575-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1288.00/2,000		
SN74AHC16541DGVR	296-4576-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.75	1.38	1.25
SN74AHC16541DL	296-4577-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.86	1.50	1.35
AHCT Family						
SN74AHCT00D	296-4629-5-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.33	.28
SN74AHCT00DR	296-4629-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.37	.31
SN74AHCT00DGVR	296-4631-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.56	.37	.31
SN74AHCT00N	296-4632-5-ND	Quad 2-Input NAND Gate	14-Dip	.55	.37	.30
SN74AHCT00PW	296-26411-5-ND	Quad 2-Input Positive NAND Gate* ***NEW!***	14-TSSOP	.44	.33	.28
SN74AHCT00PWR	296-4633-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.56	.37	.31
SN74AHCT02D	296-4634-5-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.33	.28
SN74AHCT02N	296-4638-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.37	.30
SN74AHCT04DGVR	296-4641-1-ND	Hex Inverter	14-TVSOP	.56	.37	.31
SN74AHCT04DGVR	296-4641-2-ND	Hex Inverter	14-TVSOP	254.10/2,000		
SN74AHCT04DR	296-4642-1-ND	Hex Inverter	14-SOIC	.56	.37	.31
SN74AHCT04DR	296-4642-2-ND	Hex Inverter	14-SOIC	317.50/2,500		
SN74AHCT04N	296-4643-5-ND	Hex Inverter	14-Dip	.55	.37	.30
SN74AHCT04NSR	296-13139-1-ND	Hex Inverter	14-SOP	.62	.41	.34
SN74AHCT04NSR	296-13139-2-ND	Hex Inverter	14-SOP	280.00/2,000		
SN74AHCT04PWR	296-1106-1-ND	Hex Inverter	14-TSSOP	.56	.37	.31
SN74AHCT04PWR	296-1106-2-ND	Hex Inverter	14-TSSOP	254.00/2,000		
SN74AHCT04RGYR	296-13908-1-ND	Hex Inverter	14-QFN	.62	.41	.34
SN74AHCT08D	296-4644-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.44	.33	.28
SN74AHCT08DR	296-4644-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.56	.37	.31
SN74AHCT08DR	296-4644-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	317.50/2,500		
SN74AHCT08DGVR	296-4646-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.56	.37	.31
SN74AHCT08DGVR	296-4646-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	254.10/2,000		
SN74AHCT08N	296-4647-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.55	.37	.30
SN74AHCT08NSR	296-13140-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.62	.41	.34
SN74AHCT08NSR	296-13140-2-ND	Quad 2-Input Positive AND Gate	14-SOP	280.00/2,000		
SN74AHCT08PWR	296-1107-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.56	.37	.31
SN74AHCT08PWR	296-1107-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	254.00/2,000		
SN74AHCT08QDRG4Q1	296-24427-1-ND	Quad 2-Input Pos. AND Gate* ***NEW!***	14-SOIC	.65	.43	.35
SN74AHCT08QDRG4Q1	296-24427-2-ND	Quad 2-Input Pos. AND Gate* ***NEW!***	14-SOIC	367.50/2,500		
SN74AHCT08QPWRQ1	296-18535-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.65	.43	.35
SN74AHCT08QPWRQ1	296-18535-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	294.00/2,000		
SN74AHCT14D	296-1474-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.44	.33	.28
SN74AHCT14DR	296-1474-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.56	.37	.31
SN74AHCT14DR	296-1474-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	317.50/2,500		
SN74AHCT14DBR	296-4672-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.62	.41	.34
SN74AHCT14DGVR	296-4673-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.56	.37	.31
SN74AHCT14MPWREP	296-22284-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1.48	1.17	1.06
SN74AHCT14N	296-4674-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.55	.37	.30
SN74AHCT14NSR	296-13142-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.62	.41	.34
SN74AHCT14NSR	296-13142-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	280.00/2,000		
SN74AHCT14PWR	296-1110-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.56	.37	.31
SN74AHCT14PWR	296-1110-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	254.00/2,000		
SN74AHCT14RGYR	296-13912-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.62	.41	.34
SN74AHCT32D	296-4728-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.44	.33	.28
SN74AHCT32DBR	296-4729-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.62	.41	.34
SN74AHCT32DBR	296-4729-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	280.00/2,000		
SN74AHCT32DR	296-4731-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.56	.37	.31
SN74AHCT32N	296-4732-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.55	.37	.30
SN74AHCT32PW	296-26421-5-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-TSSOP	.44	.33	.28
SN74AHCT32PWR	296-1119-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.56	.37	.31
SN74AHCT32PWR	296-1119-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	254.00/2,000		
SN74AHCT74D	296-4769-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	.44	.33	.28
SN74AHCT74DBR	296-4770-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SSOP	.62	.41	.34
SN74AHCT74N	296-4772-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-Dip	.55	.37	.30
SN74AHCT74PWR	296-4773-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	.56	.37	.31
SN74AHCT74PWR	296-4773-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	254.00/2,000		
SN74AHCT74RGYR	296-13914-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.62	.41	.34
SN74AHCT74RGYR	296-13914-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	420.00/3,000		
SN74AHCT86DR	296-4776-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.58	.38	.32
SN74AHCT86DR	296-4776-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	330.00/2,500		
SN74AHCT86N	296-4777-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.57	.38	.31
SN74AHCT86PW	296-26430-5-ND	Quad 2-Input Exclusive OR Gate* ***NEW!***	14-TSSOP	.46	.34	.29
SN74AHCT86PWR	296-4778-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.58	.38	.32
SN74AHCT86PWR	296-4778-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	264.00/2,000		
SN74AHCT123ADR	296-4650-1-ND	Dual Retrig. Mono Multivibrator	16-SOIC	.55	.39	.33
SN74AHCT123ADR	296-4650-2-ND	Dual Retrig. Mono Multivibrator	16-SOIC	387.50/2,500		
SN74AHCT123APWR	296-4651-1-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	.55	.39	.33
SN74AHCT123APWR	296-4651-2-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	310.00/2,000		
SN74AHCT125D	296-4652-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74AHCT125DR	296-4652-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74AHCT125DR	296-4652-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74AHCT125DBR	296-4653-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74AHCT125N	296-4655-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.57	.38	.31
SN74AHCT125PWR	296-1108-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.58	.38	.32
SN74AHCT125PWR	296-1108-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	264.00/2,000		
SN74AHCT125QPWRQ1	296-16700-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.51	.36	.31
SN74AHCT125QPWRQ1	296-16700-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	286.00/2,000		
SN74AHCT126DBR	296-4656-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74AHCT126DR	296-4658-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74AHCT126DR	296-4658-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74AHCT126N	296-4659-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.57	.38	.31
SN74AHCT126PW	296-26415-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.46	.34	.29
SN74AHCT132D	296-1472-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SOIC	.46	.34	.29
SN74AHCT132DBR	296-4661-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	.64	.42	.35
SN74AHCT132N	296-1473-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-Dip	.57	.38	.31
SN74AHCT132PWR	296-4662-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	.58	.38	.32
SN74AHCT138D	296-4663-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74AHCT138DGVR	296-4665-1-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	.58	.38	.32
SN74AHCT138DGVR	296-4665-2-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	264.00/2,000		
SN74AHCT138DR	296-14701-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74AHCT138DR	296-14701-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74AHCT138MPWREP	296-22540-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	2.17	1.68	1.52
SN74AHCT138N	296-4666-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74AHCT138PWR	296-1109-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74AHCT138PWR	296-1109-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74AHCT139D	296-4667-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74AHCT139DGVR	296-4669-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.58	.38	.32
SN74AHCT139DGVR	296-4669-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	264.00/2,000		
SN74AHCT139DR	296-14702-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74AHCT139DR	296-14702-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74AHCT139N	296-4670-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74AHCT157D	296-4675-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.57	.42	.36
SN74AHCT158D	296-4679-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.57	.42	.36
SN74AHCT158PWR	296-4680-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.55	.39	.33
SN74AHCT158PWR	296-4680-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	310.00/2,000		
SN74AHCT174D	296-1475-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.57	.42	.36
SN74AHCT240DWR	296-4717-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.58	.41	.35
SN74AHCT240N	296-4718-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.55	.41	.35
SN74AHCT244DBR	296-4720-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.45	.39
SN74AHCT244DBR	296-4720-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	360.00/2,000		
SN74AHCT244DGVR	296-4721-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.58	.41	.35
SN74AHCT244DW	296-4722-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.38
SN74AHCT244N	296-4723-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.55	.41	.35
SN74AHCT244NSR	296-13143-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.64	.45	.39
SN74AHCT244NSR	296-13143-2-ND	Tri-State Octal Buffer/Driver	20-SOP	360.00/2,000		
SN74AHCT244PWR	296-1116-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.58	.41	.35
SN74AHCT244PWR	296-1116-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	326.00/2,000		
SN74AHCT244QPWR	296-13865-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.45	.39
SN74AHCT245DW	296-1117-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.38
SN74AHCT245DWR	296-1117-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.58	.41	.35
SN74AHCT245DWR	296-1117-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	326.00/2,000		
SN74AHCT245N	296-1476-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.41	.35
SN74AHCT245PWR	296-1118-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.58	.41	.35
SN74AHCT245PWR	296-1118-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	326.00/2,000		
SN74AHCT273DW	296-13489-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.60	.45	.38
SN74AHCT273PWR	296-4727-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.58	.41	.35
SN74AHCT273PWR	296-4727-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	326.00/2,000		
SN74AHCT367PWR	296-4736-1-ND	Tri-State Hex Buffer/Driver	16-TSSOP	.66	.47	.40
SN74AHCT367PWR	296-4736-2-ND	Tri-State Hex Buffer/Driver	16-TSSOP	372.00/2,000		
SN74AHCT373DBR	296-4737-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.64	.45	.39
SN74AHCT373DW	296-4739-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.38
SN74AHCT373DWR	296-4739-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.58	.41	.35
SN74AHCT373N	296-4740-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.55	.41	.35
SN74AHCT373PWR	296-4741-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.58	.41	.35
SN74AHCT373PWR	296-4741-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	326.00/2,000		
SN74AHCT374DWR	296-4744-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	.58	.41	.35
SN74AHCT374N	296-4745-5-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-Dip	.55	.41	.35
SN74AHCT374PWR	296-4746-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	.58	.41	.35
SN74AHCT374PWR	296-4746-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	326.00/2,000		
SN74AHCT540DBR	296-4747-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.79	.56	.48
SN74AHCT540DGVR	296-4748-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.72	.51	.43
SN74AHCT540DW	296-4749-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.62	.49	.43
SN74AHCT540N	296-4750-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.68	.51	.43
SN74AHCT540PW	296-26422-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.62	.49	.43
SN74AHCT540PWR	296-4751-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.72	.51	.43
SN74AHCT540PWR	296-4751-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	404.00/2,000		
SN74AHCT541DBR	296-4752-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.69	.54	.48
SN74AHCT541DBR	296-4752-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	456.00/2,000		
SN74AHCT541DWR	296-4754-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.79	.56	.48
SN74AHCT541DWR	296-4754-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	444.00/2,000		
SN74AHCT541IDWREP	296-19503-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.29	1.02	.92
SN74AHCT541N	296-4755-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.63	.49	.43
SN74AHCT541NSR	296-13145-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.69	.54	.48
SN74AHCT541NSR	296-13145-2-ND	Tri-State Octal Buffer/Driver	20-SOP	456.00/2,000		
SN74AHCT541PWR	296-1120-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.79	.56	.48
SN74AHCT541PWR	296-1120-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	444.00/2,000		
SN74AHCT573DBR	296-4756-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.64	.45	.39
SN74AHCT573DBR	296-4756-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	360.00/2,000		
SN74AHCT573DGVR	296-4757-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.58	.41	.35
SN74AHCT573DGVR	296-4757-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	326.00/2,000		
SN74AHCT573DW	296-4758-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.38
SN74AHCT573DWR	296-4758-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.58	.41	.35
SN74AHCT573DWR	296-4758-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	326.00/2,000		
SN74AHCT573N	296-4759-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.55	.41	.35
SN74AHCT573PW	296-26425-5-ND	Tri-State Octal Transp. D-Type Latch* ***NEW!***	20-TSSOP	.60	.45	.38
SN74AHCT573PWR	296-1121-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.58	.41	.35
SN74AHCT573PWR	296-1121-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	326.00/2,000		
SN74AHCT574DBR	296-4760-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.70	.50	.43

** RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT574DBR	296-4760-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	396.00/2,000		
SN74AHCT574DWR	296-4762-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.45	.39
SN74AHCT574DWR	296-4762-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	360.00/2,000		
SN74AHCT574N	296-4763-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.61	.45	.39
SN74AHCT574PW	296-26427-5-ND	Tri-State Octal D-Type Flip-Flop* ***NEW!***	20-TSSOP	.66	.49	.42
SN74AHCT594D	296-4765-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	1.01	.81	.71
SN74AHCT594PWR	296-4767-1-ND	8-Bit Shift Register w/Output Register	16-TSSOP	1.06	.82	.72
SN74AHCT594PWR	296-4767-2-ND	8-Bit Shift Register w/Output Register	16-TSSOP	696.00/2,000		
SN74AHCT595D	296-14308-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.68	.51	.44
SN74AHCT595DBR	296-13490-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.73	.51	.44
SN74AHCT595DBR	296-13490-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	410.00/2,000		
SN74AHCT595DR	296-26428-1-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-SOIC	.66	.47	.40
SN74AHCT595DR	296-26428-2-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-SOIC	465.00/2,500		
SN74AHCT595PWR	296-9758-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.66	.47	.40
SN74AHCT595PWR	296-9758-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	372.00/2,000		
SN74AHCT16240DGGR	296-4681-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.10	1.62	1.47
SN74AHCT16240DL	296-4683-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.48	2.00	1.80
SN74AHCT16240DLR	296-24359-1-ND	Tri-State 16-Bit Buffer/Driver* ***NEW!***	48-SSOP	2.45	1.89	1.72
SN74AHCT16240DLR	296-24359-2-ND	Tri-State 16-Bit Buffer/Driver* ***NEW!***	48-SSOP	1015.00/1,000		
SN74AHCT16244DGGR	296-4684-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.10	1.62	1.47
SN74AHCT16244DGGR	296-4684-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1620.00/2,000		
SN74AHCT16244DL	296-4686-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.48	2.00	1.80
SN74AHCT16245DGGR	296-4687-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.10	1.62	1.47
SN74AHCT16245DGGR	296-4687-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
SN74AHCT16245DL	296-4689-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.48	2.00	1.80
SN74AHCT16245DLR	296-26417-1-ND	Tri-State 16-Bit Bus Transcvr.* ***NEW!***	48-SSOP	2.45	1.89	1.72
SN74AHCT16245DLR	296-26417-2-ND	Tri-State 16-Bit Bus Transcvr.* ***NEW!***	48-SSOP	1015.00/1,000		
SN74AHCT16373DL	296-4692-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	2.48	2.00	1.80
SN74AHCT16374DGGR	296-4693-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	2.10	1.62	1.47
SN74AHCT16374DGGR	296-4693-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1620.00/2,000		
SN74AHCT16374DLR	296-4695-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	2.45	1.89	1.72
SN74AHCT16540DL	296-4698-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.17	1.75	1.58
SN74AHCT16541DGGR	296-4699-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.28	1.76	1.60
SN74AHCT16541DL	296-4701-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.64	2.13	1.92
AHCU Family						
SN74AHCU04D	296-9759-5-ND	Hex Inverter	14-SOIC	.55	.37	.30
SN74AHCU04DBR	296-9760-1-ND	Hex Inverter	14-SSOP	.56	.37	.31
SN74AHCU04N	296-9762-5-ND	Hex Inverter	14-Dip	.50	.34	.27
Microgate Family						
SN74AHC1G00DBVR	296-1087-1-ND	Single 2-Input NAND Gate	SOT-23-5	.53	.31	.25
SN74AHC1G00DBVR	296-1087-2-ND	Single 2-Input NAND Gate	SOT-23-5	270.00/3,000		
SN74AHC1G00DCKR	296-8741-1-ND	Single 2-Input NAND Gate	SC70-5	.53	.31	.25
SN74AHC1G00DCKR	296-8741-2-ND	Single 2-Input NAND Gate	SC70-5	270.00/3,000		
SN74AHC1G00DRLR	296-19780-1-ND	Single 2-Input NAND Gate	SOT-5	.51	.34	.28
SN74AHC1G00DRLR	296-19780-2-ND	Single 2-Input NAND Gate	SOT-5	464.00/4,000		
SN74AHC1G02DBVR	296-1088-1-ND	Single 2-Input NOR Gate	SOT-23-5	.53	.31	.25
SN74AHC1G02DBVR	296-1088-2-ND	Single 2-Input NOR Gate	SOT-23-5	270.00/3,000		
SN74AHC1G02DCKR	296-8742-1-ND	Single 2-Input NOR Gate	SC70-5	.53	.31	.25
SN74AHC1G02DCKR	296-8742-2-ND	Single 2-Input NOR Gate	SC70-5	270.00/3,000		
SN74AHC1G02DRLR	296-23229-1-ND	Single 2-Input NOR Gate	5-SOT	.51	.34	.28
SN74AHC1G02DRLR	296-23229-2-ND	Single 2-Input NOR Gate	5-SOT	464.00/4,000		
SN74AHC1G04DBVR	296-1089-1-ND	Single Inverter Gate	SOT-23-5	.53	.31	.25
SN74AHC1G04DBVR	296-1089-2-ND	Single Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHC1G04DCKR	296-1090-1-ND	Single Inverter Gate	SC70-5	.53	.31	.25
SN74AHC1G04DCKR	296-1090-2-ND	Single Inverter Gate	SC70-5	270.00/3,000		
SN74AHC1G04DRLR	296-19375-1-ND	Single Inverter Gate	SOT-5	.51	.34	.28
SN74AHC1G04DRLR	296-19375-2-ND	Single Inverter Gate	SOT-5	464.00/4,000		
SN74AHC1G04QDCKRQ1	296-17248-1-ND	Single Inverter Gate	SC70-5	.61	.36	.29
SN74AHC1G08DBVR	296-1091-1-ND	Single 2-Input Positive AND Gate	SOT-23-5	.53	.31	.25
SN74AHC1G08DBVR	296-1091-2-ND	Single 2-Input Positive AND Gate	SOT-23-5	270.00/3,000		
SN74AHC1G08DCKR	296-8743-1-ND	Single 2-Input Positive AND Gate	5-SOP	.53	.31	.25
SN74AHC1G08DCKR	296-8743-2-ND	Single 2-Input Positive AND Gate	5-SOP	270.00/3,000		
SN74AHC1G08DRLR	296-19376-1-ND	Single 2-Input Positive AND Gate	SOT-5	.51	.34	.28
SN74AHC1G08DRLR	296-19376-2-ND	Single 2-Input Positive AND Gate	SOT-5	464.00/4,000		
SN74AHC1G08QDBVRQ1	296-23875-1-ND	Single 2-In. Positive AND Gate	SOT-23-5	.61	.36	.29
SN74AHC1G08QDBVRQ1	296-23875-2-ND	Single 2-In. Positive AND Gate	SOT-23-5	312.00/3,000		
SN74AHC1G14DBVR	296-1092-1-ND	Single Schmitt-Trigger Inverter Gate	SOT-23-5	.53	.31	.25
SN74AHC1G14DBVR	296-1092-2-ND	Single Schmitt-Trigger Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHC1G14DCKR	296-8748-1-ND	Single Schmitt-Trigger Inverter Gate	SC70-5	.53	.31	.25
SN74AHC1G14DCKR	296-8748-2-ND	Single Schmitt-Trigger Inverter Gate	SC70-5	270.00/3,000		
SN74AHC1G32DBVR	296-1093-1-ND	Single 2-Input OR Gate	SOT-23-5	.44	.29	.24
SN74AHC1G32DBVR	296-1093-2-ND	Single 2-Input OR Gate	SOT-23-5	297.00/3,000		
SN74AHC1G32DCKR	296-8749-1-ND	Single 2-Input OR Gate	SC70-5	.44	.29	.24
SN74AHC1G32DCKR	296-8749-2-ND	Single 2-Input OR Gate	SC70-5	297.00/3,000		
SN74AHC1G32DRLR	296-19378-1-ND	Single 2-Input OR Gate	SOT-5	.58	.38	.32
SN74AHC1G32DRLR	296-19378-2-ND	Single 2-Input OR Gate	SOT-5	528.00/4,000		
SN74AHC1G86DBVR	296-1094-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.44	.29	.24
SN74AHC1G86DBVR	296-1094-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	297.00/3,000		
SN74AHC1G86DCKR	296-8750-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.44	.29	.24
SN74AHC1G125DBVR	296-8744-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.53	.31	.25
SN74AHC1G125DBVR	296-8744-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHC1G125DCKR	296-8745-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.53	.31	.25
SN74AHC1G125DCKR	296-8745-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
SN74AHC1G126DBVR	296-8746-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.53	.31	.25
SN74AHC1G126DBVR	296-8746-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHC1G126DCKR	296-8747-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.53	.31	.25
SN74AHC1G126DCKR	296-8747-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
SN74AHC1GU04DBVR	296-1095-1-ND	Single Inverter Gate	SOT-23-5	.44	.29	.24
SN74AHC1GU04DBVR	296-1095-2-ND	Single Inverter Gate	SOT-23-5	297.00/3,000		
SN74AHC1GU04DCKR	296-8751-1-ND	Single Inverter Gate	SC70-5	.44	.29	.24
SN74AHC1GU04DCKR	296-8751-2-ND	Single Inverter Gate	SC70-5	297.00/3,000		
SN74AHCT1G00DBVR	296-1111-1-ND	Single 2-Input NAND Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G00DBVR	296-1111-2-ND	Single 2-Input NAND Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G00DCKR	296-4703-1-ND	Single 2-Input NAND Gate	5-SOT	.53	.31	.25
SN74AHCT1G00DCKR	296-4703-2-ND	Single 2-Input NAND Gate	5-SOT	270.00/3,000		
SN74AHCT1G02DBVR	296-4704-1-ND	Single 2-Input NOR Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G02DBVR	296-4704-2-ND	Single 2-Input NOR Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G02DCKR	296-4705-1-ND	Single 2-Input NOR Gate	5-SOT	.53	.31	.25
SN74AHCT1G02DCKR	296-4705-2-ND	Single 2-Input NOR Gate	5-SOT	270.00/3,000		
SN74AHCT1G04DBVR	296-1112-1-ND	Single Inverter Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G04DBVR	296-1112-2-ND	Single Inverter Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G04DBVT	296-26418-1-ND	Single Inverter Gate* ***NEW!***	SOT-23-5	.88	.68	.60
SN74AHCT1G04DBVT	296-26418-2-ND	Single Inverter Gate* ***NEW!***	SOT-23-5	117.50/250		
SN74AHCT1G04DCKR	296-4706-1-ND	Single Inverter Gate	5-SOT	.53	.31	.25
SN74AHCT1G04DCKR	296-4706-2-ND	Single Inverter Gate	5-SOT	270.00/3,000		
SN74AHCT1G08DBVR	296-1113-1-ND	Single 2-Input AND Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G08DBVR	296-1113-2-ND	Single 2-Input AND Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G08DCKR	296-4707-1-ND	Single 2-Input AND Gate	5-SOT	.53	.31	.25
SN74AHCT1G08DCKR	296-4707-2-ND	Single 2-Input AND Gate	5-SOT	270.00/3,000		
SN74AHCT1G08DRLR	296-19593-1-ND	Single 2-Input AND Gate	5-SOT	.51	.34	.28
SN74AHCT1G08DRLR	296-19593-2-ND	Single 2-Input AND Gate	5-SOT	464.00/4,000		
SN74AHCT1G14DBVR	296-1114-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.53	.31	.25
SN74AHCT1G14DBVR	296-1114-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	270.00/3,000		
SN74AHCT1G14DCKR	296-4712-1-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	.53	.31	.25
SN74AHCT1G14DCKR	296-4712-2-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	270.00/3,000		
SN74AHCT1G32DBVR	296-1115-1-ND	Single 2-Input OR Gate	SOT-23-5	.44	.29	.24
SN74AHCT1G32DBVR	296-1115-2-ND	Single 2-Input OR Gate	SOT-23-5	297.00/3,000		
SN74AHCT1G32DCKR	296-4713-1-ND	Single 2-Input OR Gate	5-SOT	.44	.29	.24
SN74AHCT1G32DCKR	296-4713-2-ND	Single 2-Input OR Gate	5-SOT	297.00/3,000		
SN74AHCT1G86DBVR	296-4714-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.44	.29	.24
SN74AHCT1G86DBVR	296-4714-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	297.00/3,000		
SN74AHCT1G86DCKR	296-4715-1-ND	Single 2-Input Exclusive OR Gate	5-SOT	.44	.29	.24
SN74AHCT1G86DCKR	296-4715-2-ND	Single 2-Input Exclusive OR Gate	5-SOT	297.00/3,000		
SN74AHCT1G125DBVR	296-4708-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G125DBVR	296-4708-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G125DCKR	296-4709-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.53	.31	.25
SN74AHCT1G125DCKR	296-4709-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
SN74AHCT1G125DRLR	296-19379-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.51	.34	.28
SN74AHCT1G125DRLR	296-19379-2-ND	Tri-State Single Bus Buffer Gate	5-SOT	462.00/4,000		
SN74AHCT1G126DBVR	296-4710-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.53	.31	.25
SN74AHCT1G126DBVR	296-4710-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	270.00/3,000		
SN74AHCT1G126DCKR	296-4711-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.53	.31	.25
SN74AHCT1G126DCKR	296-4711-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	270.00/3,000		
ALB Family						
SN74ALB16244DGGR	296-9764-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	7.16	5.94	5.40
SN74ALB16244DL	296-9766-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	8.88	7.28	6.57
SN74ALB16245DGGR	296-9767-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	7.16	5.94	5.40
ALS Family						
SN65ALS176D	296-9698-5-ND	Differential Bus Transceiver	8-SOP	2.64	2.13	1.92
SN65ALS176DR	296-14637-1-ND	Differential Bus Transceiver	8-SOIC	2.45	1.89	1.72
SN65ALS176DR	296-14637-2-ND	Differential Bus Transceiver	8-SOIC	2362.50/2,500		
SN65ALS180DR	296-14638-1-ND	Differential Driver and Receiver Pair	14-SOIC	3.47	2.68	2.43
SN65ALS180DR	296-14638-2-ND	Differential Driver and Receiver Pair	14-SOIC	3342.50/2,500		
SN74ALS00AD	296-1477-5-ND	Quad 2-Input NAND Gate	14-SOIC	.95	.74	.65
SN74ALS00ADBR	296-5000-1-ND	Quad 2-Input NAND Gate	14-SSOP	.96	.75	.66
SN74ALS00ADBR	296-5000-2-ND	Quad 2-Input NAND Gate	14-SSOP	632.00/2,000		
SN74ALS00ADR	296-1477-1-ND	Quad 2-Input NAND Gate	14-SOIC	.87	.68	.60
SN74ALS00ADR	296-1477-2-ND	Quad 2-Input NAND Gate	14-SOIC	717.50/2,500		
SN74ALS00AN	296-1478-5-ND	Quad 2-Input NAND Gate	14-Dip	.87	.68	.59
SN74ALS00ANSR	296-5001-2-ND	Quad 2-Input NAND Gate	14-SOP	632.00/2,000		
SN74ALS02AN	296-1479-5-ND	Quad 2-Input NOR Gate	14-Dip	.79	.62	.54
SN74ALS04BD	296-1122-5-ND	Hex Inverter	14-SOIC	.86	.67	.59
SN74ALS04BDR	296-1122-1-ND	Hex Inverter	14-SOIC	.79	.62	.54
SN74ALS04BN	296-1481-5-ND	Hex Inverter	14-Dip	.79	.62	.54
SN74ALS05ADR	296-14707-1-ND	Hex Inverter	14-SOIC	.87	.68	.60
SN74ALS05ADR	296-14707-2-ND	Hex Inverter	14-SOIC	717.50/2,500		
SN74ALS05AN	296-1482-5-ND	Hex Inverter with OC	14-Dip	.87	.68	.59
SN74ALS08D	296-1123-5-ND	Quad 2-Input AND Gate	14-SOIC	.86	.67	.59
SN74ALS08N	296-1484-5-ND	Quad 2-Input AND Gate	14-Dip	.79	.62	.54
SN74ALS10ADR	296-14712-1-ND	Triple 3-Input NAND Gate	14-SOIC	.97	.75	.66
SN74ALS10AN	296-5011-5-ND	Triple 3-Input NAND Gate	14-Dip	.97	.76	.66
SN74ALS11ADR	296-14713-1-ND	Triple 3-Input AND Gate	14-SOIC	1.06	.82	.72
SN74ALS21ADR	296-5045-1-ND	Dual 4-Input AND Gate	14-SOIC	1.06	.82	.72
SN74ALS21ADR	296-5045-2-ND	Dual 4-Input AND Gate	14-SOIC	870.00/2,500		
SN74ALS30AN	296-1494-5-ND	8-Input NAND Gate	14-Dip	1.31	1.05	.92
SN74ALS32DR	296-1127-1-ND	Quad 2-Input OR Gate	14-SOIC	.87	.68	.60
SN74ALS32DR	296-1127-2-ND	Quad 2-Input OR Gate	14-SOIC	717.50/2,500		
SN74ALS32N	296-1495-5-ND	Quad 2-Input OR Gate	14-Dip	.87	.68	.59
SN74ALS74AD	296-1130-5-ND	Dual D-Type Flip-Flop	14-SOIC	.92	.74	.65
SN74ALS74ADR	296-1130-1-ND	Dual D-Type Flip-Flop	14-SOIC	.97	.75	.66
SN74ALS74ADR	296-1130-2-ND	Dual D-Type Flip-Flop	14-SOIC	797.50/2,500		
SN74ALS74AN	296-1506-5-ND	Dual D-Type Flip-Flop	14-Dip	.97	.76	.66
SN74ALS86DR	296-14751-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.72	.51	.43
SN74ALS86DR	296-14751-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	503.75/2,500		
SN74ALS109AN	296-14711-5-ND	Dual J-K Flip-Flop	16-Dip	1.31	1.05	.92
SN74ALS112AN	296-5013-5-ND	Dual J-K Negative-Edge-Triggered F/F	16-Dip	1.31	1.05	.92
SN74ALS138AN	296-1485-5-ND	3-8 Line Decoder/Demux	16-Dip	.92	.74	.65
SN74ALS139DR	296-14715-1-ND	Dual 2-4 Decoder/Demux	16-SOIC	.99	.78	.71
SN74ALS139N	296-1486-5-ND	Dual 2-4 Decoder/Demux	16-Dip	1.00	.81	.71
SN74ALS151DR	296-14717-1-ND	1-of-8 Data Selector/Mux	16-SOIC	1.37	1.08	.98
SN74ALS157AN	296-14719-5-ND	Quad 1-of-2 Data Selector/Mux	16-Dip	1.16	.93	.81
SN74ALS161BN	296-1487-5-ND	4-Bit Sync. Decade/Binary Counter	16-Dip	1.12	.90	.79
SN74ALS163BD	296-23237-5-ND	4-Bit Sync. Decade/Binary Counter	16-SOIC	1.22	.98	.86
SN74ALS163BN	296-1488-5-ND	4-Bit Sync. Decade/Binary Counter	16-Dip	1.12	.90	.79
SN74ALS175DR	296-14721-1-ND	Quad D-Type Flip-Flop	16-SOIC	.99	.78	.71
SN74ALS191AN	296-5034-5-ND	Sync. 4-Bit Up/Down Binary Counter	16-Dip	2.80	2.25	2.05
SN74ALS193AN	296-14722-5-ND	4-Bit Sync. Binary Counter	16-Dip	2.80	2.25	2.05
SN74ALS240ADWR	296-14724-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.18	.93	.84
SN74ALS240ADWR	296-14724-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	868.00/2,000		
SN74ALS240AN	296-14725-5-ND	Tri-State Octal Buffer/Driver	20-Dip	1.19	.96	.84
SN74ALS244CDW	296-1124-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.22	.98	.86
SN74ALS244CDWR	296-1124-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.10	.87	.79
SN74ALS244CDWR	296-1124-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	812.00/2,000		
SN74ALS244CN	296-1490-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.12	.90	.79
SN74ALS244CNSR	296-26431-1-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	1.21	.96	.87

**** RoHS Compliant***

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALS244CNSR	296-26431-2-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	894.00/2,000		
SN74ALS245ADBR	296-5049-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.21	.96	.87
SN74ALS245ADBR	296-5049-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	894.00/2,000		
SN74ALS245ADW	296-1125-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.22	.98	.86
SN74ALS245AN	296-1492-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.12	.90	.79
SN74ALS245ANSR	296-24979-1-ND	Tri-State Octal Bus Transceiver* ***NEW!***	20-SOP	1.21	.96	.87
SN74ALS245ANSR	296-24979-2-ND	Tri-State Octal Bus Transceiver* ***NEW!***	20-SOP	894.00/2,000		
SN74ALS257AN	296-5051-5-ND	Tri-State Quad 2-1 Line Mux	16-Dip	1.39	1.11	.98
SN74ALS259DR	296-14729-1-ND	8-Bit Addressable Latch	16-SOIC	3.15	2.58	2.31
SN74ALS273DWR	296-1126-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	1.25	.99	.90
SN74ALS273N	296-1493-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	1.27	1.02	.89
SN74ALS373ADW	296-5057-5-ND	Tri-State Octal Transp. D-Type Latch* ***NEW!***	20-SOIC	1.18	.95	.83
SN74ALS373ADWR	296-14735-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	1.06	.84	.76
SN74ALS373ADWR	296-14735-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	784.00/2,000		
SN74ALS373AN	296-1496-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	1.08	.87	.76
SN74ALS374AN	296-1498-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	1.08	.87	.76
SN74ALS520N	296-14739-5-ND	8-Bit Identity Comparator	20-Dip	2.48	2.00	1.80
SN74ALS540DWR	296-14741-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	2.98	2.30	2.09
SN74ALS541DW	296-1499-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.71	1.38	1.24
SN74ALS541DWR	296-14742-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.71	1.35	1.22
SN74ALS541DWR	296-14742-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1260.00/2,000		
SN74ALS541N	296-1500-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.73	1.39	1.22
SN74ALS541NSR	296-13153-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1.88	1.49	1.34
SN74ALS541NSR	296-13153-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1386.00/2,000		
SN74ALS573CDW	296-1129-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.18	.95	.83
SN74ALS573CN	296-1502-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	1.08	.87	.76
SN74ALS574BDW	296-1503-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.30	1.04	.91
SN74ALS574BDWR	296-14745-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.17	.93	.84
SN74ALS574BDWR	296-14745-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	862.00/2,000		
SN74ALS574BN	296-1504-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	1.19	.95	.84
SN74ALS580BNSR	296-13154-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	4.20	3.43	3.08
SN74ALS639AN	296-5068-5-ND	Octal Bus Transceiver	20-Dip	5.88	4.73	4.31
SN74ALS641A-1DW	296-9770-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	4.76	3.83	3.49
SN74ALS641ADW	296-9771-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	4.76	3.83	3.49
SN74ALS645AN	296-5076-5-ND	Tri-State Octal Bus Transceiver	20-Dip	2.17	1.75	1.58
SN74ALS652ANT	296-14747-5-ND	Tri-State Octal Bus Transceiver	24-Dip	8.00	6.56	5.92
SN74ALS688N	296-14748-5-ND	8-Bit Identity Comparator	20-Dip	6.02	4.84	4.41
SN74ALS874BNT	296-14752-5-ND	Dual 4-Bit D-Type Flip-Flop	24-Dip	5.04	4.05	3.69
SN74ALS996DWR	296-5098-1-ND	8-Bit READ-BACK Latch	24-SOIC	13.34	11.31	10.44
SN74ALS996NT	296-1507-5-ND	8-Bit READ-BACK Latch	24-Dip	14.41	12.12	11.14
SN74ALS1005DR	296-14709-1-ND	Hex Inverting Buffer	14-SOIC	2.45	1.89	1.72
SN74ALS1005NSR	296-13146-1-ND	Hex Inverting Buffer with OC Output	14-SOP	2.80	2.16	1.96
SN74ALS1034D	296-5007-5-ND	Hex Non-Inverting Driver	14-SOIC	3.08	2.48	2.26
SN74ALS1035DR	296-14710-1-ND	Hex Non-Inverting Buffer	14-SOIC	2.10	1.62	1.47
SN74ALS1035N	296-5009-5-ND	Hex Non-Inverting Buffer	14-Dip	2.02	1.63	1.47
SN74ALS29827NT	296-14732-5-ND	Tri-State 10-Bit Buffer	24-Dip	8.13	6.67	6.02
SN75ALS057DWR	296-12932-1-ND	Quad Interface Bus Transceiver	20-SOIC	7.05	5.76	5.17
SN75ALS057N	296-9927-5-ND	Quad Interface Bus Transceiver	20-Dip	6.50	5.33	4.81
SN75ALS085DW	296-12933-5-ND	Dual Channel Driver/Receiver	24-SOIC	21.68	18.43	17.08
SN75ALS085NT	296-9928-5-ND	Dual Channel Driver/Receiver	24-Dip	20.66	17.57	16.27
SN75ALS160DW	296-9932-5-ND	Octal Bus Transceiver	20-SOIC	3.22	2.59	2.36
SN75ALS161N	296-9933-5-ND	Octal Bus Transceiver	20-Dip	7.75	6.36	5.74
SN75ALS162DW	296-9934-5-ND	Octal Bus Transceiver	24-SOIC	7.00	5.74	5.18
SN75ALS162DWR	296-14963-1-ND	Octal Bus Transceiver	24-SOIC	6.90	5.64	5.06
SN75ALS170ADW	296-9936-5-ND	Triple Differential Bus Transceiver	20-SOIC	6.90	5.66	5.11
SN75ALS171ADW	296-9937-5-ND	Triple Differential Bus Transceiver	20-SOIC	10.00	8.20	7.40
SN75ALS171DWR	296-9938-1-ND	Triple Differential Bus Transceiver	20-SOIC	8.22	6.82	6.20
SN75ALS172ADW	296-9939-5-ND	Quad Differential Bus Line Driver	20-SOIC	4.90	3.94	3.59
SN75ALS172AN	296-9940-5-ND	Quad Differential Bus Line Driver	16-Dip	4.48	3.60	3.28
SN75ALS173N	296-9951-5-ND	Quad Differential Line Receiver	16-Dip	4.48	3.60	3.28
SN75ALS174AN	296-9952-5-ND	Quad Differential Line Driver	16-Dip	3.36	2.70	2.46
SN75ALS175N	296-9953-5-ND	Quad Differential Line Receiver	16-Dip	3.56	2.86	2.61
SN75ALS176AD	296-9955-5-ND	Differential Bus Transceiver	8-SOIC	2.64	2.13	1.92
SN75ALS176ADR	296-14964-1-ND	Differential Bus Transceiver	8-SOIC	2.45	1.89	1.72
SN75ALS176ADR	296-14964-2-ND	Differential Bus Transceiver	8-SOIC	2362.50/2,500		
SN75ALS176BD	296-9956-5-ND	Differential Bus Transceiver	8-SOIC	2.64	2.13	1.92
SN75ALS176BDR	296-14965-1-ND	Differential Bus Transceiver	8-SOIC	2.45	1.89	1.72
SN75ALS176BDR	296-14965-2-ND	Differential Bus Transceiver	8-SOIC	2362.50/2,500		
SN75ALS176BP	296-9957-5-ND	Differential Bus Transceiver	8-Dip	2.48	2.00	1.80
SN75ALS176D	296-9958-5-ND	Differential Bus Transceiver	8-SOIC	2.33	1.88	1.69
SN75ALS176DR	296-14966-1-ND	Differential Bus Transceiver	8-SOIC	2.28	1.76	1.60
SN75ALS176DR	296-14966-2-ND	Differential Bus Transceiver	8-SOIC	2195.00/2,500		
SN75ALS176P	296-9959-5-ND	Differential Bus Transceiver	8-Dip	2.17	1.75	1.58
SN75ALS180D	296-9960-5-ND	Differential Driver/Receiver Pair	14-SOIC	3.08	2.48	2.26
SN75ALS180DR	296-14967-1-ND	Differential Driver/Receiver Pair	14-SOIC	3.47	2.68	2.43
SN75ALS180DR	296-14967-2-ND	Differential Driver/Receiver Pair	14-SOIC	3342.50/2,500		
SN75ALS180N	296-9961-5-ND	Differential Driver/Receiver Pair	14-Dip	3.08	2.48	2.26
SN75ALS181N	296-9962-5-ND	Differential Driver/Receiver Pair	14-Dip	2.79	2.25	2.03
SN75ALS181NSR	296-9963-1-ND	Differential Driver/Receiver Pair	14-SOP	3.15	2.43	2.21
SN75ALS181NSR	296-9963-2-ND	Differential Driver/Receiver Pair	14-SOP	2430.00/2,000		
SN75ALS191D	296-9964-5-ND	Dual Differential Line Driver	8-SOIC	2.17	1.75	1.58
SN75ALS191DR	296-24361-1-ND	Dual Differential Line Driver* ***NEW!***	8-SOIC	1.93	1.49	1.35
SN75ALS191DR	296-24361-2-ND	Dual Differential Line Driver* ***NEW!***	8-SOIC	1857.50/2,500		
SN75ALS191P	296-9965-5-ND	Dual Differential Line Driver	8-Dip	2.33	1.88	1.69
SN75ALS191PSR	296-13318-1-ND	Dual Differential Line Driver	8-SOP	2.28	1.76	1.60
SN75ALS191PSR	296-13318-2-ND	Dual Differential Line Driver	8-SOP	1756.00/2,000		
SN75ALS192D	296-9966-5-ND	Quad Differential Line Driver	16-SOIC	.96	.75	.65
SN75ALS192DR	296-14968-1-ND	Quad Differential Line Driver	16-SOIC	.88	.68	.60
SN75ALS192DR	296-14968-2-ND	Quad Differential Line Driver	16-SOIC	725.00/2,500		
SN75ALS192N	296-15071-5-ND	Quad Differential Line Driver	16-Dip	.88	.69	.60
SN75ALS193D	296-9967-5-ND	Quad Differential Line Receiver	16-SOIC	.72	.56	.49
SN75ALS193DR	296-24362-1-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	.66	.51	.45
SN75ALS193DR	296-24362-2-ND	Quad Differential Line Receiver* ***NEW!***	16-SOIC	545.00/2,500		
SN75ALS193N	296-9968-5-ND	Quad Differential Line Receiver	16-Dip	.66	.52	.45
SN75ALS194N	296-9969-5-ND	Quad Differential Line Driver	16-Dip	1.71	1.38	1.24
SN75ALS195N	296-9970-5-ND	Quad Differential Line Receiver	16-Dip	2.79	2.25	2.03
SN75ALS197D	296-9971-5-ND	Quad Differential Line Receiver	16-SOIC	.72	.56	.49
SN75ALS197DR	296-14970-1-ND	Quad Differential Line Receiver	16-SOIC	.66	.51	.45
SN75ALS197N	296-9972-5-ND	Quad Differential Line Receiver	16-Dip	.66	.52	.45
SN75ALS199D	296-9973-5-ND	Quad Differential Line Receiver	16-SOIC	1.55	1.25	1.13
SN75ALS1177N	296-9929-5-ND	Tri-State Dual Diff. Driver/Receiver	16-Dip	5.04	4.05	3.69
SN75ALS1177NSR	296-9930-1-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	5.40	4.41	3.96
SN75ALS1177NSR	296-9930-2-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4788.00/2,000		
SN75ALS1178N	296-9931-5-ND	Tri-State Dual Diff. Driver/Receiver	16-Dip	5.04	4.05	3.69
SN75ALS1178NSR	296-12185-1-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	5.40	4.41	3.96
SN75ALS1178NSR	296-12185-2-ND	Tri-State Dual Diff. Driver/Receiver	16-SOP	4788.00/2,000		
		ALVC Family				
74ALVC164245ZQLR	296-23181-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	56-VFBGA	3.47	2.68	2.43
74ALVC164245ZRDR	296-16869-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	54-BGA	3.47	2.68	2.43
CALVC164245IDGGREP	296-19491-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-TSSOP	4.05	3.31	2.97
CALVC164245IDGGREP	296-19491-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-TSSOP	3592.00/2,000		
CALVC164245IDLREP	296-18092-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-SSOP	4.05	3.31	2.97
CALVC164245IDLREP	296-18092-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-SSOP	1890.00/1,000		
SN74ALVC00D	296-26432-5-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.51	.38	.33
SN74ALVC00DGVR	296-5100-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.50	.35	.30
SN74ALVC00NSR	296-5103-1-ND	Quad 2-Input NAND Gate	14-SOP	.54	.39	.33
SN74ALVC00PWR	296-5104-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.50	.35	.30
SN74ALVC00PWR	296-5104-2-ND	Quad 2-Input NAND Gate	14-TSSOP	280.00/2,000		
SN74ALVC04D	296-1508-5-ND	Hex Inverter	14-SOIC	.51	.38	.33
SN74ALVC04DGVR	296-5105-1-ND	Hex Inverter	14-TVSOP	.50	.35	.30
SN74ALVC04DR	296-14780-1-ND	Hex Inverter	14-SOIC	.50	.35	.30
SN74ALVC04DR	296-14780-2-ND	Hex Inverter	14-SOIC	348.75/2,500		
SN74ALVC08DGVR	296-5107-1-ND	Quad 2-Input AND Gate	14-TVSOP	.50	.35	.30
SN74ALVC08DR	296-5108-1-ND	Quad 2-Input AND Gate	14-SOIC	.50	.35	.30
SN74ALVC08DR	296-5108-2-ND	Quad 2-Input AND Gate	14-SOIC	350.00/2,500		
SN74ALVC08PWR	296-5109-1-ND	Quad 2-Input AND Gate	14-TSSOP	.50	.35	.30
SN74ALVC08PWR	296-5109-2-ND	Quad 2-Input AND Gate	14-TSSOP	280.00/2,000		
SN74ALVC08RGYR	296-13918-1-ND	Quad 2-Input AND Gate	14-QFN	.54	.39	.33
SN74ALVC08RGYR	296-13918-2-ND	Quad 2-Input AND Gate	14-QFN	504.00/3,000		
SN74ALVC10D	296-1509-5-ND	Triple 3-Input NAND Gate	14-SOIC	.51	.38	.33
SN74ALVC10DR	296-1509-1-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.35	.30
SN74ALVC14DGVR	296-5119-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.35	.30
SN74ALVC14DGVR	296-5119-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	280.00/2,000		
SN74ALVC14DR	296-5120-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.35	.30
SN74ALVC14DR	296-5120-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	348.75/2,500		
SN74ALVC14PWR	296-5121-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.50	.35	.30
SN74ALVC14PWR	296-5121-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	280.00/2,000		
SN74ALVC32D	296-26438-5-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	.51	.38	.33
SN74ALVC32DR	296-5140-1-ND	Quad 2-Input OR Gate	14-SOIC	.50	.35	.30
SN74ALVC32DR	296-5140-2-ND	Quad 2-Input OR Gate	14-SOIC	350.00/2,500		
SN74ALVC32PW	296-26439-5-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.51	.38	.33
SN74ALVC32PWR	296-5142-1-ND	Quad 2-Input OR Gate	14-TSSOP	.50	.35	.30
SN74ALVC32PWR	296-5142-2-ND	Quad 2-Input OR Gate	14-TSSOP	280.00/2,000		
SN74ALVC125D	296-1510-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.62	.49	.43
SN74ALVC125DGVR	296-5113-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.72	.51	.43
SN74ALVC125DGVR	296-5113-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	404.00/2,000		
SN74ALVC125PW	296-26434-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.62	.49	.43
SN74ALVC125PWR	296-5115-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.72	.51	.43
SN74ALVC125PWR	296-5115-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	403.00/2,000		
SN74ALVC126DGVR	296-5116-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.72	.51	.43
SN74ALVC126DR	296-5117-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.72	.51	.43
SN74ALVC126NSR	296-12859-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.79	.56	.48
SN74ALVC126PWR	296-5118-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.72	.51	.43
SN74ALVC126PWR	296-5118-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	403.00/2,000		
SN74ALVC244DGVR	296-12862-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.51	.45
SN74ALVC244DGVR	296-12862-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	436.00/2,000		
SN74ALVC244DWR	296-5135-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.66	.51	.45
SN74ALVC244DWR	296-5135-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	436.00/2,000		
SN74ALVC244IPWREP	296-19504-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.18	.93	.84
SN74ALVC244IPWREP	296-19504-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	868.00/2,000		
SN74ALVC244NSR	296-12863-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.66	.51	.45
SN74ALVC244PWR	296-5136-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.66	.51	.45
SN74ALVC244PWR	296-5136-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	436.00/2,000		
SN74ALVC245DGVR	296-5137-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.66	.51	.45
SN74ALVC245DWR	296-5138-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.66	.51	.45
SN74ALVC245DWR	296-5138-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	436.00/2,000		
SN74ALVC245PWR	296-9774-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.66	.51	.45
SN74ALVC245PWR	296-9774-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	436.00/2,000		
SN74ALVC245RGYR	296-25820-1-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-QFN	.73	.57	.50
SN74ALVC245RGYR	296-25820-2-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-QFN	717.00/3,000		
SN74ALVC16244ADGGR	296-5123-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.80	2.16	1.96
SN74ALVC16244ADGGR	296-5123-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2160.00/2,000		
SN74ALVC16244ADL	296-5124-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.80	2.25	2.05
SN74ALVC16334DGGR	296-1134-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1.93	1.49	1.35
SN74ALVC16334DGGR	296-1134-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1486.00/2,000		
SN74ALVC16334DGVR	296-5130-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1.93	1.49	1.35
SN74ALVC16334DGVR	296-5130-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1486.00/2,000		
SN74ALVC16334DL	296-1515-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	2.33	1.88	1.69
SN74ALVC16834DGGR	296-1136-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4.95	4.05	3.63
SN74ALVC16834DGGR	296-1136-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4390.00/2,000		
SN74ALVC16834DL	296-1516-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	6.02	4.84	4.41
SN74ALVC16835DGGR	296-1137-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4.05	3.31	2.97
SN74ALVC16835DGGR	296-1137-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3592.00/2,000		
SN74ALVC16835DL	296-5134-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	4.06	3.27	2.98
SN74ALVC162334DGGR	296-1131-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4.95	4.05	3.63

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVC162334DGGR	296-1131-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4390.00/2,000		
SN74ALVC162334DGVR	296-5122-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4.95	4.05	3.63
SN74ALVC162334DGVR	296-5122-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4390.00/2,000		
SN74ALVC162334DL	296-1511-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	4.62	3.72	3.39
SN74ALVC162834DL	296-1512-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	4.62	3.72	3.39
SN74ALVC162834VR	296-5127-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3.75	3.07	2.75
SN74ALVC162834VR	296-5127-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3326.00/2,000		
SN74ALVC162835DGGR	296-1132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.93	1.49	1.35
SN74ALVC162835DGGR	296-1132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1486.00/2,000		
SN74ALVC162835DL	296-1513-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.71	1.38	1.24
SN74ALVC162836DGGR	296-1133-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	5.55	4.54	4.07
SN74ALVC162836DGGR	296-1133-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4922.00/2,000		
SN74ALVC162836DGVR	296-5129-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	5.55	4.54	4.07
SN74ALVC162836DL	296-1514-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	6.72	5.40	4.92
SN74ALVC164245DGGR	296-1135-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-TSSOP	2.10	1.62	1.47
SN74ALVC164245DGGR	296-1135-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-TSSOP	1620.00/2,000		
SN74ALVC164245DL	296-5131-5-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	2.48	2.00	1.80
SN74ALVC164245DLR	296-14781-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	2.45	1.89	1.72
SN74ALVC164245DLR	296-14781-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1015.00/1,000		
SN74ALVC164245KR	296-15395-1-ND	Tri-State 16-Bit Level Shift Transceiver	56-BGA	3.15	2.43	2.21
SN74ALVC164245KR	296-15395-2-ND	Tri-State 16-Bit Level Shift Transceiver	56-BGA	1305.00/1,000		
SN74ALVCF162834GR	296-13628-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	2.45	1.89	1.72
SN74ALVCF162835GR	296-13607-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	3.15	2.43	2.21
SN74ALVCF162835GR	296-13607-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2430.00/2,000		
SN74ALVCF162835VR	296-13609-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	3.15	2.43	2.21
SN74ALVCF162835VR	296-13609-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2430.00/2,000		
ALVCH Family						
74ALVCH32374ZKER	296-24976-1-ND	Tri-State 32-Bit D-Type F/F* ***NEW!***	96-LFBGA	6.90	5.64	5.06
74ALVCH32374ZKER	296-24976-2-ND	Tri-State 32-Bit D-Type F/F* ***NEW!***	96-LFBGA	3220.00/1,000		
74ALVCH32973ZKER	296-18282-1-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-BGA	4.50	3.68	3.30
74ALVCH32973ZKER	296-18282-2-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-BGA	2100.00/1,000		
SN74ALVCH244DGVR	296-6274-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.75	.58	.51
SN74ALVCH244DW	296-1517-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.82	.64	.56
SN74ALVCH244DWR	296-1517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.75	.58	.51
SN74ALVCH244PWR	296-6275-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.75	.58	.51
SN74ALVCH244PWR	296-6275-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	494.00/2,000		
SN74ALVCH245DWR	296-6277-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.97	.75	.66
SN74ALVCH245DWR	296-6277-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74ALVCH245PW	296-26440-5-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-TSSOP	.92	.74	.65
SN74ALVCH245PWR	296-6278-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.97	.75	.66
SN74ALVCH245PWR	296-6278-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	638.00/2,000		
SN74ALVCH373PWR	296-6285-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.88	.68	.60
SN74ALVCH373PWR	296-6285-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	580.00/2,000		
SN74ALVCH374PWR	296-12462-1-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	1.01	.79	.69
SN74ALVCH374PWR	296-12462-2-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	667.00/2,000		
SN74ALVCH16240DGGR	296-5185-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.93	1.49	1.35
SN74ALVCH16240DGGR	296-5185-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1486.00/2,000		
SN74ALVCH16240DL	296-5186-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.33	1.88	1.69
SN74ALVCH16240DLR	296-5186-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.28	1.76	1.60
SN74ALVCH16240DLR	296-5186-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	943.00/1,000		
SN74ALVCH16244DGGR	296-1139-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.75	1.35	1.23
SN74ALVCH16244DGGR	296-1139-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1350.00/2,000		
SN74ALVCH16244DGVR	296-5187-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.75	1.35	1.23
SN74ALVCH16244DGVR	296-5187-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1350.00/2,000		
SN74ALVCH16244DL	296-5188-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.02	1.63	1.47
SN74ALVCH16244DLR	296-5188-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.93	1.49	1.35
SN74ALVCH16244KR	296-5189-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	2.63	2.03	1.84
SN74ALVCH16244KR	296-5189-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	1087.50/1,000		
SN74ALVCH16245DGGR	296-5190-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.75	1.35	1.23
SN74ALVCH16245DGGR	296-5190-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1350.00/2,000		
SN74ALVCH16245DGVR	296-5191-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.75	1.35	1.23
SN74ALVCH16245DGVR	296-5191-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1350.00/2,000		
SN74ALVCH16245DL	296-5192-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.02	1.63	1.47
SN74ALVCH16245DLR	296-5192-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.93	1.49	1.35
SN74ALVCH16245DLR	296-5192-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	798.00/1,000		
SN74ALVCH16245KR	296-5193-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2.63	2.03	1.84
SN74ALVCH16245KR	296-5193-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	1087.50/1,000		
SN74ALVCH16260DGGR	296-1140-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.93	1.49	1.35
SN74ALVCH16260DGGR	296-1140-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1486.00/2,000		
SN74ALVCH16260DLR	296-1141-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	2.28	1.76	1.60
SN74ALVCH16260DLR	296-1141-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	943.00/1,000		
SN74ALVCH16269DGGR	296-5198-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	2.28	1.76	1.60
SN74ALVCH16269DGGR	296-5198-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1756.00/2,000		
SN74ALVCH16269DL	296-5199-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	2.64	2.13	1.92
SN74ALVCH16269KR	296-9775-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-BGA	3.00	2.45	2.20
SN74ALVCH16269KR	296-9775-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-BGA	1400.00/1,000		
SN74ALVCH16270DGGR	296-5200-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	2.45	1.89	1.72
SN74ALVCH16270DGGR	296-5200-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1890.00/2,000		
SN74ALVCH16270DL	296-5201-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	2.17	1.75	1.58
SN74ALVCH16270DLR	296-5201-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	2.45	1.89	1.72
SN74ALVCH16270DLR	296-5201-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1015.00/1,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCH16271DGGR	296-5202-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	5.25	4.29	3.85
SN74ALVCH16271DGGR	296-5202-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	4656.00/2,000		
SN74ALVCH16271DL	296-5203-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	5.32	4.28	3.90
SN74ALVCH16282DBBR	296-5210-1-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-TSSOP	9.94	8.25	7.50
SN74ALVCH16282DBBR	296-5210-2-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-TSSOP	9750.00/2,000		
SN74ALVCH16334DL	296-5221-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	4.62	3.72	3.39
SN74ALVCH16344DGGR	296-5222-1-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	4.95	4.05	3.63
SN74ALVCH16344DGGR	296-5222-2-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	4389.00/2,000		
SN74ALVCH16373DGGR	296-5224-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.75	1.35	1.23
SN74ALVCH16373DGGR	296-5224-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1350.00/2,000		
SN74ALVCH16373DL	296-5225-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	2.02	1.63	1.47
SN74ALVCH16373DLR	296-14784-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.93	1.49	1.35
SN74ALVCH16374DGGR	296-1144-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.75	1.35	1.23
SN74ALVCH16374DGGR	296-1144-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1350.00/2,000		
SN74ALVCH16374DGVR	296-23238-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1.75	1.35	1.23
SN74ALVCH16374DGVR	296-23238-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1350.00/2,000		
SN74ALVCH16374DL	296-5226-5-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	2.02	1.63	1.47
SN74ALVCH16374KR	296-9777-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	2.63	2.03	1.84
SN74ALVCH16374KR	296-9777-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	1088.00/1,000		
SN74ALVCH16409DL	296-5228-5-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-SSOP	1.71	1.38	1.24
SN74ALVCH16500DGGR	296-5229-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.93	1.49	1.35
SN74ALVCH16500DGGR	296-5229-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1485.00/2,000		
SN74ALVCH16500DLR	296-5230-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.93	1.49	1.35
SN74ALVCH16500DLR	296-5230-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	797.50/1,000		
SN74ALVCH16501DGGR	296-1145-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.28	1.76	1.60
SN74ALVCH16501DGGR	296-1145-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1756.00/2,000		
SN74ALVCH16501DL	296-5231-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.48	2.00	1.80
SN74ALVCH16501KR	296-9778-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-BGA	3.33	2.57	2.33
SN74ALVCH16501KR	296-9778-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-BGA	1378.00/1,000		
SN74ALVCH16524DGGR	296-5232-1-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	10.60	8.80	8.00
SN74ALVCH16524DGGR	296-5232-2-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	10400.00/2,000		
SN74ALVCH16524DL	296-12870-5-ND	Tri-State 16-Bit Universal Bus Driver	56-SSOP	11.00	9.02	8.14
SN74ALVCH16525DL	296-12871-5-ND	Tri-State 18-Bit Registered Bus Transceiver	56-SSOP	2.33	1.88	1.69
SN74ALVCH16525DGGR	296-5233-1-ND	Tri-St. 18-Bit Registered Bus Transcvr	56-TSSOP	2.63	2.03	1.84
SN74ALVCH16525DGGR	296-5233-2-ND	Tri-St. 18-Bit Registered Bus Transcvr	56-TSSOP	2025.00/2,000		
SN74ALVCH16543DL	296-5237-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.02	1.63	1.47
SN74ALVCH16543DLR	296-14785-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.28	1.76	1.60
SN74ALVCH16601DGGR	296-1146-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.45	1.89	1.72
SN74ALVCH16601DGGR	296-1146-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1890.00/2,000		
SN74ALVCH16601DL	296-5240-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.95	2.38	2.14
SN74ALVCH16601DLR	296-5241-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.80	2.16	1.96
SN74ALVCH16601DLR	296-5241-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1160.00/1,000		
SN74ALVCH16646DGGR	296-5242-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2.98	2.30	2.09
SN74ALVCH16646DGGR	296-5242-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2295.00/2,000		
SN74ALVCH16646DGVR	296-5243-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2.98	2.30	2.09
SN74ALVCH16646DGVR	296-5243-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2295.00/2,000		
SN74ALVCH16646DL	296-5244-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	3.22	2.59	2.36
SN74ALVCH16646DLR	296-5244-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	3.33	2.57	2.33
SN74ALVCH16646DLR	296-5244-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1378.00/1,000		
SN74ALVCH16721DGGR	296-1147-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	2.28	1.76	1.60
SN74ALVCH16721DGGR	296-1147-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	1756.00/2,000		
SN74ALVCH16721DGVR	296-5245-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	2.28	1.76	1.60
SN74ALVCH16721DGVR	296-5245-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	1755.00/2,000		
SN74ALVCH16721DLR	296-5246-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	2.63	2.03	1.84
SN74ALVCH16721DLR	296-5246-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	1088.00/1,000		
SN74ALVCH16820DGGR	296-5247-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	4.65	3.80	3.41
SN74ALVCH16820DGGR	296-5247-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	4123.00/2,000		
SN74ALVCH16820DLR	296-5248-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	5.25	4.29	3.85
SN74ALVCH16820DLR	296-5248-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	2450.00/1,000		
SN74ALVCH16821DGGR	296-5249-1-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	4.65	3.80	3.41
SN74ALVCH16821DGGR	296-5249-2-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	4123.00/2,000		
SN74ALVCH16821DL	296-5250-5-ND	Tri-St. 3.3V, 20-Bit Bus-Interface F/F	56-SSOP	5.74	4.62	4.21
SN74ALVCH16823DGGR	296-1148-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TSSOP	3.15	2.58	2.31
SN74ALVCH16823DGGR	296-1148-2-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TSSOP	2794.00/2,000		
SN74ALVCH16823DGVR	296-12872-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TVSOP	3.15	2.58	2.31
SN74ALVCH16823DL	296-5251-5-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-SSOP	3.78	3.04	2.77
SN74ALVCH16825DGGR	296-5252-1-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	2.45	1.89	1.72
SN74ALVCH16825DGGR	296-5252-2-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1890.00/2,000		
SN74ALVCH16825DL	296-5253-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.17	1.75	1.58
SN74ALVCH16827DGGR	296-5254-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	2.98	2.30	2.09
SN74ALVCH16827DGGR	296-5254-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	2296.00/2,000		
SN74ALVCH16827DL	296-5255-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	3.08	2.48	2.26
SN74ALVCH16831DBBR	296-5256-1-ND	Tri-State 1-4 Address Register/Driver	80-TSSOP	7.69	6.38	5.80
SN74ALVCH16831DBBR	296-5256-2-ND	Tri-State 1-4 Address Register/Driver	80-TSSOP	7540.00/2,000		
SN74ALVCH16835DGGR	296-1149-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.63	2.03	1.84
SN74ALVCH16835DGGR	296-1149-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2026.00/2,000		
SN74ALVCH16835DGVR	296-5258-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.63	2.03	1.84
SN74ALVCH16835DGVR	296-5258-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2026.00/2,000		
SN74ALVCH16835DLR	296-5259-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.80	2.16	1.96
SN74ALVCH16835DLR	296-5259-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1160.00/1,000		
SN74ALVCH16835KR	296-5260-1-ND	Tri-State 18-Bit Universal Bus Driver	56-BGA	3.30	2.70	2.42

** RoHS Compliant*

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(Continued)

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCH16835KR	296-5260-2-ND	Tri-State 18-Bit Universal Bus Driver	56-BGA	1540.00/1,000		
SN74ALVCH16841DGGR	296-6261-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	4.95	4.05	3.63
SN74ALVCH16841DGGR	296-6261-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	4390.00/2,000		
SN74ALVCH16841DL	296-6266-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	6.02	4.84	4.41
SN74ALVCH16863DGGR	296-6267-1-ND	Tri-State 18-Bit Transceiver	56-TSSOP	4.95	4.05	3.63
SN74ALVCH16863DGGR	296-6267-2-ND	Tri-State 18-Bit Transceiver	56-TSSOP	4389.00/2,000		
SN74ALVCH16901DGGR	296-6269-1-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	4.50	3.68	3.30
SN74ALVCH16901DGGR	296-6269-2-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3990.00/2,000		
SN74ALVCH16903DGGR	296-6270-1-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	11.26	9.35	8.50
SN74ALVCH16903DGGR	296-6270-2-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	11050.00/2,000		
SN74ALVCH16903DL	296-12873-5-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-SSOP	12.21	10.27	9.44
SN74ALVCH16952DGGR	296-9780-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.93	1.49	1.35
SN74ALVCH16952DGGR	296-9780-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1485.00/2,000		
SN74ALVCH16952DGVR	296-6272-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	2.10	1.62	1.47
SN74ALVCH16952DGVR	296-6272-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1620.00/2,000		
SN74ALVCH16952DL	296-6273-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.71	1.38	1.24
SN74ALVCH16952DLR	296-6273-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.93	1.49	1.35
SN74ALVCH16952DLR	296-6273-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	797.50/1,000		
SN74ALVCH16973DGGR	296-15397-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	3.45	2.82	2.53
SN74ALVCH16973DGGR	296-15397-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	3059.00/2,000		
SN74ALVCH16973DGVR	296-15398-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	3.45	2.82	2.53
SN74ALVCH16973DGVR	296-15398-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	3059.00/2,000		
SN74ALVCH32244KR	296-6279-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	6.90	5.64	5.06
SN74ALVCH32244KR	296-6279-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3220.00/1,000		
SN74ALVCH32245KR	296-6280-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	6.90	5.64	5.06
SN74ALVCH32245KR	296-6280-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3220.00/1,000		
SN74ALVCH32374KR	296-6281-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	6.90	5.64	5.06
SN74ALVCH32374KR	296-6281-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	3220.00/1,000		
SN74ALVCH32501KR	296-6282-1-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-LFBGA	7.95	6.60	6.00
SN74ALVCH32501KR	296-6282-2-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-LFBGA	4050.00/1,000		
SN74ALVCH32973KR	296-15321-1-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	4.50	3.68	3.30
SN74ALVCH32973KR	296-15321-2-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	2100.00/1,000		
SN74ALVCH162244DLR	296-5174-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.28	1.76	1.60
SN74ALVCH162244DLR	296-5174-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	943.00/1,000		
SN74ALVCH162244GR	296-5175-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.93	1.49	1.35
SN74ALVCH162244GR	296-5175-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1486.00/2,000		
SN74ALVCH162260DL	296-5176-5-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	2.48	2.00	1.80
SN74ALVCH162260GR	296-1138-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	2.28	1.76	1.60
SN74ALVCH162260GR	296-1138-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1756.00/2,000		
SN74ALVCH162268DL	296-5177-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	2.48	2.00	1.80
SN74ALVCH162268GR	296-5178-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	2.28	1.76	1.60
SN74ALVCH162268GR	296-5178-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1756.00/2,000		
SN74ALVCH162268KR	296-15396-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-BGA	3.33	2.57	2.33
SN74ALVCH162268KR	296-15396-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-BGA	1378.00/1,000		
SN74ALVCH162334DL	296-5179-5-ND	Tri-State 16-Bit Univ. Bus Driver	48-SSOP	5.60	4.50	4.10
SN74ALVCH162334GR	296-5180-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	5.40	4.41	3.96
SN74ALVCH162334GR	296-5180-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4788.00/2,000		
SN74ALVCH162334VR	296-12864-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	5.40	4.41	3.96
SN74ALVCH162334VR	296-12864-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4788.00/2,000		
SN74ALVCH162344DL	296-5181-5-ND	Tri-State 1-to-4-Bit Address Driver	56-SSOP	1.55	1.25	1.13
SN74ALVCH162344GR	296-5182-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1.75	1.35	1.23
SN74ALVCH162344GR	296-5182-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1350.00/2,000		
SN74ALVCH162344VR	296-12865-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1.75	1.35	1.23
SN74ALVCH162344VR	296-12865-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1350.00/2,000		
SN74ALVCH162373GR	296-18538-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	1.75	1.35	1.23
SN74ALVCH162373GR	296-18538-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	1350.00/2,000		
SN74ALVCH162373KR	296-18539-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	2.63	2.03	1.84
SN74ALVCH162373KR	296-18539-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	1087.50/1,000		
SN74ALVCH162373LR	296-18540-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	1.93	1.49	1.35
SN74ALVCH162373LR	296-18540-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	798.00/1,000		
SN74ALVCH162374DL	296-5183-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	2.33	1.88	1.69
SN74ALVCH162374GR	296-5184-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.93	1.49	1.35
SN74ALVCH162374GR	296-5184-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1486.00/2,000		
SN74ALVCH162525DL	296-12866-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	2.64	2.13	1.92
SN74ALVCH162525GR	296-5194-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2.98	2.30	2.09
SN74ALVCH162525GR	296-5194-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2295.00/2,000		
SN74ALVCH162601DL	296-5195-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	2.33	1.88	1.69
SN74ALVCH162601DLR	296-14782-1-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	2.28	1.76	1.60
SN74ALVCH162601DLR	296-14782-2-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	943.00/1,000		
SN74ALVCH162601GR	296-5196-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1.93	1.49	1.35
SN74ALVCH162601GR	296-5196-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1486.00/2,000		
SN74ALVCH162721DLR	296-5204-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	4.65	3.80	3.41
SN74ALVCH162721DLR	296-5204-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	2170.00/1,000		
SN74ALVCH162721GR	296-5205-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	4.20	3.43	3.08
SN74ALVCH162721GR	296-5205-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	3724.00/2,000		
SN74ALVCH162820DL	296-5206-5-ND	Tri-St. 3.3V, 10-Bit F/F w/Dual Output	56-SSOP	2.17	1.75	1.58
SN74ALVCH162827DLR	296-14783-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	2.10	1.62	1.47
SN74ALVCH162827DLR	296-14783-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	870.00/1,000		
SN74ALVCH162827GR	296-1142-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	2.10	1.62	1.47
SN74ALVCH162827GR	296-1142-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1620.00/2,000		
SN74ALVCH162827VR	296-5209-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	2.10	1.62	1.47
SN74ALVCH162827VR	296-5209-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	1620.00/2,000		
SN74ALVCH162830GR	296-5211-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2.80	2.16	1.96
SN74ALVCH162830GR	296-5211-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2160.00/2,000		
SN74ALVCH162831GR	296-5212-1-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	7.82	6.49	5.90
SN74ALVCH162831GR	296-5212-2-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	7670.00/2,000		
SN74ALVCH162835DL	296-5214-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.48	2.00	1.80
SN74ALVCH162835GR	296-5215-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.80	2.16	1.96
SN74ALVCH162835GR	296-5215-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2160.00/2,000		
SN74ALVCH162836DL	296-12868-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	5.46	4.39	4.00
SN74ALVCH162836GR	296-5216-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	5.25	4.29	3.85
SN74ALVCH162836GR	296-5216-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4656.00/2,000		
SN74ALVCH162836VR	296-5217-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	5.25	4.29	3.85
SN74ALVCH162836VR	296-5217-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4655.00/2,000		
SN74ALVCH162841DL	296-5218-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.64	2.13	1.92
SN74ALVCH162841GR	296-5219-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.98	2.30	2.09
SN74ALVCH162841GR	296-5219-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2295.00/2,000		

ALVCHG Family

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCHG162280GR	296-6286-1-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	11.93	9.90	9.00
SN74ALVCHG162280GR	296-6286-2-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	11700.00/2,000		
SN74ALVCHG162282GR	296-12874-1-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TSSOP	11.93	9.90	9.00
SN74ALVCHG162282GR	296-12874-2-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TSSOP	11700.00/2,000		

ALVCHR Family

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVCHR16245ZQLR	296-23492-1-ND	Tri-St. 16-Bit Bus Transceiver	56-BGA	2.63	2.03	1.84
74ALVCHR16245ZQLR	296-23492-2-ND	Tri-St. 16-Bit Bus Transceiver	56-BGA	1088.00/1,000		
SN74ALVCHR16245GR	296-6287-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.75	1.35	1.23
SN74ALVCHR16245GR	296-6287-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1350.00/2,000		
SN74ALVCHR16245LR	296-6288-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.93	1.49	1.35
SN74ALVCHR16245LR	296-6288-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	798.00/1,000		
SN74ALVCHR16269AGR	296-1280-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	2.98	2.30	2.09
SN74ALVCHR16269AGR	296-1280-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	2296.00/2,000		
SN74ALVCHR16269ALR	296-6289-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	3.33	2.57	2.33
SN74ALVCHR16269ALR	296-6289-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1378.00/1,000		
SN74ALVCHR16269AVR	296-6290-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	2.98	2.30	2.09
SN74ALVCHR16269AVR	296-6290-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	2296.00/2,000		
SN74ALVCHR16409GR	296-12877-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	10.47	8.69	7.90
SN74ALVCHR16409GR	296-12877-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	10270.00/2,000		
SN74ALVCHR16409LR	296-6291-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	11.53	9.57	8.70
SN74ALVCHR16409LR	296-6291-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	5873.00/1,000		
SN74ALVCHR16601GR	296-1150-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.98	2.30	2.09
SN74ALVCHR16601GR	296-1150-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2296.00/2,000		
SN74ALVCHR16601LR	296-6292-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.33	2.57	2.33
SN74ALVCHR16601LR	296-6292-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1378.00/1,000		
SN74ALVCHR16601VR	296-12878-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	2.98	2.30	2.09
SN74ALVCHR16601VR	296-12878-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	2296.00/2,000		
SN74ALVCHR162245DL	296-12875-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.40	1.12	.98
SN74ALVCHR162601DL	296-12876-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	6.02	4.84	4.41

ALVCHS Family

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVCHS162830AGR	296-17630-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	5.40	4.41	3.96
74ALVCHS162830AGR	296-17630-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4788.00/2,000		
SN74ALVCHS162830GR	296-6293-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	5.40	4.41	3.96
SN74ALVCHS162830GR	296-6293-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4788.00/2,000		

ALVTH Family

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVTH32244ZKER	296-19856-1-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-LFBGA	3.60	2.94	2.64
74ALVTH32244ZKER	296-19856-2-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-LFBGA	1680.00/1,000		
SN74ALVTH16240DLR	296-6296-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.67	1.32	1.19
SN74ALVTH16240DLR	296-6296-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	660.00/1,000		
SN74ALVTH16240GR	296-6297-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.67	1.32	1.19
SN74ALVTH16240GR	296-6297-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1232.00/2,000		
SN74ALVTH16240VR	296-6298-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.84	1.46	1.31
SN74ALVTH16240VR	296-6298-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1358.00/2,000		
SN74ALVTH16244DL	296-1519-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	2.02	1.63	1.47
SN74ALVTH16244DLR	296-1519-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.93	1.49	1.35
SN74ALVTH16244DLR	296-1519-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	798.00/1,000		
SN74ALVTH16244GR	296-6299-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.82	1.44	1.30
SN74ALVTH16244GR	296-6299-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1344.00/2,000		
SN74ALVTH16244KR	296-6300-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	56-BGA	2.63	2.03	1.84
SN74ALVTH16244KR	296-6300-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	56-BGA	1088.00/1,000		
SN74ALVTH16244VR	296-6301-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.82	1.44	1.30
SN74ALVTH16244VR	296-6301-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1344.00/2,000		
SN74ALVTH16245DLR	296-13158-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	1.84	1.46	1.31
SN74ALVTH16245DLR	296-13158-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	726.00/1,000		
SN74ALVTH16245GR	296-13159-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1.67	1.32	1.19
SN74ALVTH16245GR	296-13159-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1232.00/2,000		
SN74ALVTH16245KR	296-18541-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-BGA	2.45	1.89	1.72
SN74ALVTH16245KR	296-18541-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-BGA	1015.00/1,000		
SN74ALVTH16245VR	296-13160-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1.67	1.32	1.19
SN74ALVTH16245VR	296-13160-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1232.00/2,000		
SN74ALVTH16373DLR	296-6305-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	1.93	1.49	1.35
SN74ALVTH16373DLR	296-6305-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	798.00/1,000		
SN74ALVTH16373GR	296-6306-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1.82	1.44	1.30
SN74ALVTH16373GR	296-6306-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1344.00/2,000		
SN74ALVTH16373KR	296-9782-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-BGA	2.63	2.03	1.84
SN74ALVTH16373KR	296-9782-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-BGA	1088.00/1,000		
SN74ALVTH16373VR	296-6307-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1.82	1.44	1.30
SN74ALVTH16373VR	296-6307-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1344.00/2,000		
SN74ALVTH16374DLR	296-6308-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	1.93	1.49	1.35
SN74ALVTH16374DLR	296-6308-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	798.00/1,000		
SN74ALVTH16374GR	296-6309-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1.75	1.35	1.23
SN74ALVTH16374GR	296-6309-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1350.00/2,000		
SN74ALVTH16374VR	296-6311-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1.75	1.35	1.23

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVTH16374VR	296-6311-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1350.00/2,000		
SN74ALVTH16601DLR	296-6312-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	4.95	4.05	3.63
SN74ALVTH16601DLR	296-6312-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	2310.00/1,000		
SN74ALVTH16601GR	296-6313-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	4.50	3.68	3.30
SN74ALVTH16601GR	296-6313-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	3990.00/2,000		
SN74ALVTH16601VR	296-6314-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	4.50	3.68	3.30
SN74ALVTH16601VR	296-6314-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	3990.00/2,000		
SN74ALVTH16821DL	296-1520-5-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	5.46	4.39	4.00
SN74ALVTH16821DLR	296-1520-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	4.95	4.05	3.63
SN74ALVTH16821DLR	296-1520-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	2310.00/1,000		
SN74ALVTH16821GR	296-6315-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	4.50	3.68	3.30
SN74ALVTH16821GR	296-6315-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3990.00/2,000		
SN74ALVTH16821VR	296-6316-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	4.50	3.68	3.30
SN74ALVTH16821VR	296-6316-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	3990.00/2,000		
SN74ALVTH16827DL	296-6317-5-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	5.46	4.39	4.00
SN74ALVTH16827DLR	296-6317-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	4.95	4.05	3.63
SN74ALVTH16827DLR	296-6317-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	2310.00/1,000		
SN74ALVTH16827GR	296-6318-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	4.50	3.68	3.30
SN74ALVTH16827GR	296-6318-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3990.00/2,000		
SN74ALVTH16827VR	296-6319-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	4.50	3.68	3.30
SN74ALVTH16827VR	296-6319-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3990.00/2,000		
SN74ALVTH32244KR	296-6320-1-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	3.60	2.94	2.64
SN74ALVTH32244KR	296-6320-2-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	1680.00/1,000		
SN74ALVTH32373KR	296-6321-1-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	3.60	2.94	2.64
SN74ALVTH32373KR	296-6321-2-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	1680.00/1,000		
SN74ALVTH32374KR	296-6322-1-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type F/F	96-LFBGA	3.60	2.94	2.64
SN74ALVTH32374KR	296-6322-2-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type F/F	96-LFBGA	1680.00/1,000		
SN74ALVTH162244DL	296-1518-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	2.02	1.63	1.47
SN74ALVTH162244GR	296-6294-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.82	1.44	1.30
SN74ALVTH162244GR	296-6294-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1344.00/2,000		
SN74ALVTH162244LR	296-12879-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.93	1.49	1.35
SN74ALVTH162244LR	296-12879-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	798.00/1,000		
SN74ALVTH162244VR	296-6295-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.82	1.44	1.30
SN74ALVTH162244VR	296-6295-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1344.00/2,000		
SN74ALVTH162245GR	296-13155-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1.82	1.44	1.30
SN74ALVTH162245GR	296-13155-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1344.00/2,000		
SN74ALVTH162245LR	296-13156-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	1.93	1.49	1.35
SN74ALVTH162245LR	296-13156-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	798.00/1,000		
SN74ALVTH162245VR	296-13157-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1.82	1.44	1.30
SN74ALVTH162245VR	296-13157-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1344.00/2,000		
SN74ALVTH162827DL	296-6302-5-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	4.06	3.27	2.98
SN74ALVTH162827GR	296-6303-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3.90	3.19	2.86
SN74ALVTH162827GR	296-6303-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3458.00/2,000		
SN74ALVTH162827VR	296-6304-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3.90	3.19	2.86
SN74ALVTH162827VR	296-6304-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3458.00/2,000		
ALVTHR Family						
SN74ALVTHR16245GR	296-15402-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	2.45	1.89	1.72
SN74ALVTHR16245GR	296-15402-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1890.00/2,000		
SN74ALVTHR16245KR	296-18542-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-BGA	3.47	2.68	2.43
SN74ALVTHR16245KR	296-18542-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-BGA	1436.00/1,000		
SN74ALVTHR16245LR	296-15403-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	2.63	2.03	1.84
SN74ALVTHR16245LR	296-15403-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	1088.00/1,000		
SN74ALVTHR16245VR	296-15404-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	2.45	1.89	1.72
SN74ALVTHR16245VR	296-15404-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1890.00/2,000		
AS Family						
SN74AS00DR	296-14787-1-ND	Quad 2-Input NAND Gate	14-SOIC	1.10	.87	.79
SN74AS00DR	296-14787-2-ND	Quad 2-Input NAND Gate	14-SOIC	1015.00/2,500		
SN74AS00N	296-1521-5-ND	Quad 2-Input NAND Gate	14-Dip	1.12	.90	.79
SN74AS02DR	296-14788-1-ND	Quad 2-Input NOR Gate	14-SOIC	2.28	1.76	1.60
SN74AS02DR	296-14788-2-ND	Quad 2-Input NOR Gate	14-SOIC	2195.00/2,500		
SN74AS02N	296-14789-5-ND	Quad 2-Input NOR Gate	14-Dip	2.17	1.75	1.58
SN74AS04DR	296-14790-1-ND	Hex Inverter	14-SOIC	1.10	.87	.79
SN74AS04DR	296-14790-2-ND	Hex Inverter	14-SOIC	1015.00/2,500		
SN74AS04N	296-1522-5-ND	Hex Inverter	14-Dip	1.12	.90	.79
SN74AS10DR	296-6333-1-ND	Triple 3-Input NAND Gate	14-SOIC	1.37	1.08	.98
SN74AS10DR	296-6333-2-ND	Triple 3-Input NAND Gate	14-SOIC	1260.00/2,500		
SN74AS21NSR	296-13162-1-ND	Dual 4-Input Positive AND Gate	14-SOP	2.10	1.62	1.47
SN74AS21NSR	296-13162-2-ND	Dual 4-Input Positive AND Gate	14-SOP	1620.00/2,000		
SN74AS32N	296-1524-5-ND	Quad 2-Input Positive OR Gate	14-Dip	1.23	.99	.86
SN74AS74AN	296-1525-5-ND	Dual Positive-Edge-Triggered D-Type F/F	14-Dip	1.35	1.08	.95
SN74AS138N	296-14793-5-ND	3-8 Line Decoder/Demux	16-Dip	3.08	2.48	2.26
SN74AS194D	296-6341-5-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOIC	4.90	3.94	3.59
SN74AS194DR	296-6341-1-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	4.35	3.56	3.19
SN74AS194DR	296-6341-2-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	4822.50/2,500		
SN74AS245N	296-6346-5-ND	Tri-State Octal Bus Transceiver	20-Dip	3.92	3.15	2.87
SN74AS253AD	296-11843-5-ND	Tri-St. Dual 1-of-4 Data Selector/Mux	16-SOIC	5.46	4.39	4.00
SN74AS298ANSR	296-13163-1-ND	Quad 2-Input Multiplexer with Storage	16-SOP	4.65	3.80	3.41
SN74AS298ANSR	296-13163-2-ND	Quad 2-Input Multiplexer with Storage	16-SOP	4124.00/2,000		
SN74AS373N	296-6355-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	3.78	3.04	2.77
SN74AS645N	296-14794-5-ND	Tri-State Octal Bus Transceiver	20-Dip	5.32	4.28	3.90
SN74AS757N	296-12180-5-ND	Octal Buffer/Line Driver with OC Output	20-Dip	10.25	8.41	7.59
SN74AS760DWR	296-14795-1-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	6.60	5.39	4.84
SN74AS760DWR	296-14795-2-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	5852.00/2,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AS1000ADR	296-14791-1-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	2.80	2.16	1.96
SN74AS1000ADR	296-14791-2-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	2700.00/2,500		
SN74AS1004ADR	296-14792-1-ND	Hex Inverting Driver	14-SOIC	2.80	2.16	1.96
SN74AS1004ADR	296-14792-2-ND	Hex Inverting Driver	14-SOIC	2700.00/2,500		
AUC Family						
CAUC1G125MDCKREP	296-22096-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	1.02	.79	.70
CAUC1G125MDCKREP	296-22096-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	1004.85/3,000		
SN74AUC1G00DBVR	296-13164-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	.61	.36	.29
SN74AUC1G00DBVR	296-13164-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	312.00/3,000		
SN74AUC1G00DCKR	296-13165-1-ND	Single 2-Input Positive NAND Gate	SC70-5	.61	.36	.29
SN74AUC1G00DCKR	296-13165-2-ND	Single 2-Input Positive NAND Gate	SC70-5	312.00/3,000		
SN74AUC1G00DRLR	296-19319-1-ND	Single 2-Input Positive NAND Gate	SOT-5	.53	.35	.29
SN74AUC1G00DRLR	296-19319-2-ND	Single 2-Input Positive NAND Gate	SOT-5	480.00/4,000		
SN74AUC1G00YEAR	296-15422-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G00YEAR	296-15422-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G00YEPR	296-18545-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G00YEPR	296-18545-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G00YZPR	296-18546-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.65	.46	.39
SN74AUC1G00YZPR	296-18546-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	549.00/3,000		
SN74AUC1G02DBVR	296-13166-1-ND	Single 2-Input Positive NOR Gate	SOT-23-5	.61	.36	.29
SN74AUC1G02DBVR	296-13166-2-ND	Single 2-Input Positive NOR Gate	SOT-23-5	312.00/3,000		
SN74AUC1G02DCKR	296-13167-1-ND	Single 2-Input Positive NOR Gate	SC70-5	.61	.36	.29
SN74AUC1G02DCKR	296-13167-2-ND	Single 2-Input Positive NOR Gate	SC70-5	312.00/3,000		
SN74AUC1G02DRLR	296-18710-1-ND	Single 2-Input Positive NOR Gate	SOT-5	.53	.35	.29
SN74AUC1G02DRLR	296-18710-2-ND	Single 2-Input Positive NOR Gate	SOT-5	480.00/4,000		
SN74AUC1G02YEAR	296-13724-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G02YEAR	296-13724-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G02YEPR	296-18547-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G02YEPR	296-18547-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G04DBVR	296-13168-1-ND	Single Inverter Gate	SOT-23-5	.61	.36	.29
SN74AUC1G04DBVR	296-13168-2-ND	Single Inverter Gate	SOT-23-5	312.00/3,000		
SN74AUC1G04DCKR	296-13169-1-ND	Single Inverter Gate	SC70-5	.61	.36	.29
SN74AUC1G04DCKR	296-13169-2-ND	Single Inverter Gate	SC70-5	312.00/3,000		
SN74AUC1G04DRLR	296-18313-1-ND	Single Inverter Gate	SOT-5	.53	.35	.29
SN74AUC1G04DRLR	296-18313-2-ND	Single Inverter Gate	SOT-5	480.00/4,000		
SN74AUC1G04YEAR	296-13725-1-ND	Single Inverter Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G04YEAR	296-13725-2-ND	Single Inverter Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G04YEPR	296-15260-1-ND	Single Inverter Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G04YEPR	296-15260-2-ND	Single Inverter Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G04YZAR	296-14350-1-ND	Single Inverter Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G04YZAR	296-14350-2-ND	Single Inverter Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G04YZPR	296-15261-1-ND	Single Inverter Gate	5-DSBGA	.65	.46	.39
SN74AUC1G04YZPR	296-15261-2-ND	Single Inverter Gate	5-DSBGA	549.00/3,000		
SN74AUC1G06DBVR	296-12652-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	.61	.36	.29
SN74AUC1G06DBVR	296-12652-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	312.00/3,000		
SN74AUC1G06DCKR	296-12653-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	.61	.36	.29
SN74AUC1G06DCKR	296-12653-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	312.00/3,000		
SN74AUC1G06YEAR	296-15423-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	1.06	.82	.72
SN74AUC1G06YEAR	296-15423-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	1044.00/3,000		
SN74AUC1G06YZPR	296-18548-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	.65	.46	.39
SN74AUC1G06YZPR	296-18548-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	549.00/3,000		
SN74AUC1G07DBVR	296-12463-1-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	.61	.36	.29
SN74AUC1G07DBVR	296-12463-2-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	312.00/3,000		
SN74AUC1G07DCKR	296-12464-1-ND	Single Buffer/Driver with Open Drain Output	SC70-5	.61	.36	.29
SN74AUC1G07DCKR	296-12464-2-ND	Single Buffer/Driver with Open Drain Output	SC70-5	312.00/3,000		
SN74AUC1G07YEAR	296-13726-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1.06	.82	.72
SN74AUC1G07YEAR	296-13726-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1044.00/3,000		
SN74AUC1G07YEPR	296-18549-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1.06	.82	.72
SN74AUC1G07YEPR	296-18549-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1044.00/3,000		
SN74AUC1G07YZAR	296-14014-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1.06	.82	.72
SN74AUC1G07YZAR	296-14014-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	1044.00/3,000		
SN74AUC1G07YZPR	296-18550-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.65	.46	.39
SN74AUC1G07YZPR	296-18550-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	549.00/3,000		
SN74AUC1G08DBVR	296-13170-1-ND	Single 2-Input Positive AND Gate	SOT-23-5	.61	.36	.29
SN74AUC1G08DBVR	296-13170-2-ND	Single 2-Input Positive AND Gate	SOT-23-5	312.00/3,000		
SN74AUC1G08DCKR	296-13171-1-ND	Single 2-Input Positive AND Gate	SC70-5	.61	.36	.29
SN74AUC1G08DCKR	296-13171-2-ND	Single 2-Input Positive AND Gate	SC70-5	312.00/3,000		
SN74AUC1G08DRLR	296-18294-1-ND	Single 2-Input Positive AND Gate	SOT-5	.53	.35	.29
SN74AUC1G08DRLR	296-18294-2-ND	Single 2-Input Positive AND Gate	SOT-5	480.00/4,000		
SN74AUC1G08YEAR	296-15424-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G08YEAR	296-15424-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G08YEPR	296-15098-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G08YEPR	296-15098-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G08YZAR	296-14015-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G08YZAR	296-14015-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G08YZPR	296-15099-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.65	.46	.39
SN74AUC1G08YZPR	296-15099-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	549.00/3,000		
SN74AUC1G14DBVR	296-12880-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.61	.36	.29
SN74AUC1G14DBVR	296-12880-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	312.00/3,000		
SN74AUC1G14DCKR	296-13172-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.61	.36	.29
SN74AUC1G14DCKR	296-13172-2-ND	Single Schmitt-Trigger Inverter	SC70-5	312.00/3,000		
SN74AUC1G14MDBVREP	296-22292-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	1.63	1.29	1.17
SN74AUC1G14MDBVREP	296-22292-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	1806.00/3,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AUC1G14YEAR	296-13727-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1.06	.82	.72
SN74AUC1G14YEAR	296-13727-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1044.00/3,000		
SN74AUC1G14YEPR	296-18553-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1.06	.82	.72
SN74AUC1G14YEPR	296-18553-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1044.00/3,000		
SN74AUC1G14YZAR	296-14016-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1.06	.82	.72
SN74AUC1G14YZAR	296-14016-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	1044.00/3,000		
SN74AUC1G14YZPR	296-18554-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.65	.46	.39
SN74AUC1G14YZPR	296-18554-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	549.00/3,000		
SN74AUC1G17DBVR	296-12654-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.61	.36	.29
SN74AUC1G17DBVR	296-12654-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	312.00/3,000		
SN74AUC1G17DCKR	296-13173-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.61	.36	.29
SN74AUC1G17DCKR	296-13173-2-ND	Single Schmitt-Trigger Buffer	SC70-5	312.00/3,000		
SN74AUC1G17DRLR	296-18646-1-ND	Single Schmitt-Trigger Buffer	SOT-5	.53	.35	.29
SN74AUC1G17DRLR	296-18646-2-ND	Single Schmitt-Trigger Buffer	SOT-5	480.00/4,000		
SN74AUC1G17YEAR	296-13728-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1.06	.82	.72
SN74AUC1G17YEAR	296-13728-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1044.00/3,000		
SN74AUC1G17YEPR	296-18555-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1.06	.82	.72
SN74AUC1G17YEPR	296-18555-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1044.00/3,000		
SN74AUC1G17YZAR	296-14017-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1.06	.82	.72
SN74AUC1G17YZAR	296-14017-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	1044.00/3,000		
SN74AUC1G17YZPR	296-18556-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.65	.46	.39
SN74AUC1G17YZPR	296-18556-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	549.00/3,000		
SN74AUC1G19DBVR	296-17895-1-ND	1-of-2 Decoder/Demux	SOT-23-6	.57	.38	.31
SN74AUC1G19DBVR	296-17895-2-ND	1-of-2 Decoder/Demux	SOT-23-6	387.00/3,000		
SN74AUC1G19DCKR	296-17896-1-ND	1-of-2 Decoder/Demux	SC70-6	.57	.38	.31
SN74AUC1G19DCKR	296-17896-2-ND	1-of-2 Decoder/Demux	SC70-6	387.00/3,000		
SN74AUC1G19DRLR	296-18711-1-ND	1-of-2 Decoder/Demux	SOT-6	.51	.36	.31
SN74AUC1G19DRLR	296-18711-2-ND	1-of-2 Decoder/Demux	SOT-6	576.00/4,000		
SN74AUC1G19YZPR	296-17897-1-ND	1-of-2 Decoder/Demux	6-DSBGA	.76	.54	.46
SN74AUC1G19YZPR	296-17897-2-ND	1-of-2 Decoder/Demux	6-DSBGA	642.00/3,000		
SN74AUC1G32DBVR	296-12655-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.61	.36	.29
SN74AUC1G32DBVR	296-12655-2-ND	Single 2-Input Positive OR Gate	SOT-23-5	312.00/3,000		
SN74AUC1G32DCKR	296-12656-1-ND	Single 2-Input Positive OR Gate	SC70-5	.61	.36	.29
SN74AUC1G32DCKR	296-12656-2-ND	Single 2-Input Positive OR Gate	SC70-5	312.00/3,000		
SN74AUC1G32DRLR	296-18647-1-ND	Single 2-Input Positive OR Gate	SOT-5	.53	.35	.29
SN74AUC1G32DRLR	296-18647-2-ND	Single 2-Input Positive OR Gate	SOT-5	480.00/4,000		
SN74AUC1G32YEAR	296-13729-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G32YEAR	296-13729-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G32YEPR	296-18557-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G32YEPR	296-18557-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G32YZAR	296-14018-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G32YZAR	296-14018-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G32YZPR	296-18558-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.65	.46	.39
SN74AUC1G32YZPR	296-18558-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	549.00/3,000		
SN74AUC1G66DBVR	296-15427-1-ND	Single Bilateral Analog Switch	SOT-23-5	.57	.38	.31
SN74AUC1G66DBVR	296-15427-2-ND	Single Bilateral Analog Switch	SOT-23-5	387.00/3,000		
SN74AUC1G66DCKR	296-15428-1-ND	Single Bilateral Analog Switch	SC70-5	.57	.38	.31
SN74AUC1G66DCKR	296-15428-2-ND	Single Bilateral Analog Switch	SC70-5	387.00/3,000		
SN74AUC1G66YZPR	296-21809-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.54	.46
SN74AUC1G66YZPR	296-21809-2-ND	Single Bilateral Analog Switch	5-DSBGA	642.00/3,000		
SN74AUC1G74DCTR	296-18559-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.47	.40
SN74AUC1G74DCTR	296-18559-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SM8	558.00/3,000		
SN74AUC1G74DCUR	296-18560-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	US8	.72	.51	.43
SN74AUC1G74DCUR	296-18560-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	US8	606.00/3,000		
SN74AUC1G74YEPR	296-16733-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1.06	.82	.72
SN74AUC1G74YEPR	296-16733-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1044.00/3,000		
SN74AUC1G74YZPR	296-21413-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.62	.54
SN74AUC1G74YZPR	296-21413-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	783.00/3,000		
SN74AUC1G79DBVR	296-15430-1-ND	Single D-Type Flip-Flop	SOT-23-5	.61	.36	.29
SN74AUC1G79DBVR	296-15430-2-ND	Single D-Type Flip-Flop	SOT-23-5	312.00/3,000		
SN74AUC1G79DCKR	296-14309-1-ND	Single D-Type Flip-Flop	SC70-5	.61	.36	.29
SN74AUC1G79DCKR	296-14309-2-ND	Single D-Type Flip-Flop	SC70-5	312.00/3,000		
SN74AUC1G79YEAR	296-14351-1-ND	Single D-Type Flip-Flop	5-DSBGA	1.06	.82	.72
SN74AUC1G79YEAR	296-14351-2-ND	Single D-Type Flip-Flop	5-DSBGA	1044.00/3,000		
SN74AUC1G79YEPR	296-18561-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	1.06	.82	.72
SN74AUC1G79YEPR	296-18561-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	1044.00/3,000		
SN74AUC1G79YZPR	296-18562-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.65	.46	.39
SN74AUC1G79YZPR	296-18562-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	549.00/3,000		
SN74AUC1G80DBVR	296-15431-1-ND	Single D-Type Flip-Flop	SOT-23-5	.61	.36	.29
SN74AUC1G80DBVR	296-15431-2-ND	Single D-Type Flip-Flop	SOT-23-5	312.00/3,000		
SN74AUC1G80DCKR	296-14310-1-ND	Single D-Type Flip-Flop	SC70-5	.61	.36	.29
SN74AUC1G80DCKR	296-14310-2-ND	Single D-Type Flip-Flop	SC70-5	312.00/3,000		
SN74AUC1G80YEAR	296-14352-1-ND	Single D-Type Flip-Flop	5-DSBGA	1.06	.82	.72
SN74AUC1G80YEAR	296-14352-2-ND	Single D-Type Flip-Flop	5-DSBGA	1044.00/3,000		
SN74AUC1G80YEPR	296-15889-1-ND	Single D-Type Flip-Flop	5-DSBGA	1.06	.82	.72
SN74AUC1G80YEPR	296-15889-2-ND	Single D-Type Flip-Flop	5-DSBGA	1044.00/3,000		
SN74AUC1G80YZPR	296-15890-1-ND	Single D-Type Flip-Flop	5-DSBGA	.65	.46	.39
SN74AUC1G80YZPR	296-15890-2-ND	Single D-Type Flip-Flop	5-DSBGA	549.00/3,000		
SN74AUC1G86DBVR	296-15432-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.57	.38	.31
SN74AUC1G86DBVR	296-15432-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	387.00/3,000		
SN74AUC1G86DCKR	296-15433-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.57	.38	.31
SN74AUC1G86DCKR	296-15433-2-ND	Single 2-Input Exclusive OR Gate	SC70-5	387.00/3,000		
SN74AUC1G86YEAR	296-15434-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G86YEAR	296-15434-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G86YEPR	296-18563-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G86YEPR	296-18563-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G86YZAR	296-15435-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G86YZAR	296-15435-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G86YZPR	296-18564-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.76	.54	.46
SN74AUC1G86YZPR	296-18564-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	642.00/3,000		
SN74AUC1G125DBVR	296-12657-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.61	.36	.29
SN74AUC1G125DBVR	296-12657-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	312.00/3,000		
SN74AUC1G125DCKR	296-12658-1-ND	Tri-State Bus Buffer Gate	SC70-5	.61	.36	.29
SN74AUC1G125DCKR	296-12658-2-ND	Tri-State Bus Buffer Gate	SC70-5	312.00/3,000		
SN74AUC1G125YEAR	296-15425-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G125YEAR	296-15425-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G125YZAR	296-15426-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G125YZAR	296-15426-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G125YZPR	296-18551-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.65	.46	.39
SN74AUC1G125YZPR	296-18551-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	549.00/3,000		
SN74AUC1G126DBVR	296-12659-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.61	.36	.29
SN74AUC1G126DBVR	296-12659-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	312.00/3,000		
SN74AUC1G126DCKR	296-12660-1-ND	Tri-State Bus Buffer Gate	SC70-5	.61	.36	.29
SN74AUC1G126DCKR	296-12660-2-ND	Tri-State Bus Buffer Gate	SC70-5	312.00/3,000		
SN74AUC1G126YEPR	296-18552-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G126YEPR	296-18552-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G126YZPR	296-19781-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.65	.46	.39
SN74AUC1G126YZPR	296-19781-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	549.00/3,000		
SN74AUC1G240DBVR	296-12661-1-ND	Tri-State Buffer/Driver Gate	SOT-23-5	.57	.38	.31
SN74AUC1G240DBVR	296-12661-2-ND	Tri-State Buffer/Driver Gate	SOT-23-5	387.00/3,000		
SN74AUC1G240DCKR	296-12662-1-ND	Tri-State Buffer/Driver Gate	SC70-5	.57	.38	.31
SN74AUC1G240DCKR	296-12662-2-ND	Tri-State Buffer/Driver Gate	SC70-5	387.00/3,000		
SN74AUC1G240YEPR	296-15100-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	1.06	.82	.72
SN74AUC1G240YEPR	296-15100-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA	1044.00/3,000		
SN74AUC1G240YZPR	296-15101-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	.76	.54	.46
SN74AUC1G240YZPR	296-15101-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA	642.00/3,000		
SN74AUC1GU04DBVR	296-13174-1-ND	Single Inverter Gate	SOT-23-5	.57	.38	.31
SN74AUC1GU04DBVR	296-13174-2-ND	Single Inverter Gate	SOT-23-5	387.00/3,000		
SN74AUC1GU04DCKR	296-13175-1-ND	Single Inverter Gate	SC70-5	.57	.38	.31
SN74AUC1GU04DCKR	296-13175-2-ND	Single Inverter Gate	SC70-5	387.00/3,000		
SN74AUC1GU04YEPR	296-15848-1-ND	Single Inverter Gate	5-DSBGA	1.06	.82	.72
SN74AUC1GU04YEPR	296-15848-2-ND	Single Inverter Gate	5-DSBGA	1044.00/3,000		
SN74AUC1GU04YZPR	296-24107-1-ND	Single Inverter Gate	5-DSBGA	.76	.54	.46
SN74AUC1GU04YZPR	296-24107-2-ND	Single Inverter Gate	5-DSBGA	642.00/3,000		
SN74AUC2G00DCTR	296-18565-1-ND	Dual 2-Input Positive NAND Gate	SM8	.66	.47	.40
SN74AUC2G00DCTR	296-18565-2-ND	Dual 2-Input Positive NAND Gate	SM8	558.00/3,000		
SN74AUC2G00DCUR	296-18566-1-ND	Dual 2-Input Positive NAND Gate	US8	.72	.51	.43
SN74AUC2G00DCUR	296-18566-2-ND	Dual 2-Input Positive NAND Gate	US8	606.00/3,000		
SN74AUC2G00YEPR	296-18567-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1.14	.90	.81
SN74AUC2G00YEPR	296-18567-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1260.00/3,000		
SN74AUC2G00YZPR	296-18568-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.79	.62	.54
SN74AUC2G00YZPR	296-18568-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	783.00/3,000		
SN74AUC2G02DCTR	296-18569-1-ND	Dual 2-Input Positive NOR Gate	SM8	.66	.47	.40
SN74AUC2G02DCTR	296-18569-2-ND	Dual 2-Input Positive NOR Gate	SM8	558.00/3,000		
SN74AUC2G02DCUR	296-18570-1-ND	Dual 2-Input Positive NOR Gate	US8	.72	.51	.43
SN74AUC2G02DCUR	296-18570-2-ND	Dual 2-Input Positive NOR Gate	US8	606.00/3,000		
SN74AUC2G02YEPR	296-18571-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1.14	.90	.81
SN74AUC2G02YEPR	296-18571-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1260.00/3,000		
SN74AUC2G02YZPR	296-18572-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.79	.62	.54
SN74AUC2G02YZPR	296-18572-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	783.00/3,000		
SN74AUC2G04DBVR	296-18573-1-ND	Dual Inverter Gate	SOT-23-6	.55	.39	.33
SN74AUC2G04DBVR	296-18573-2-ND	Dual Inverter Gate	SOT-23-6	465.00/3,000		
SN74AUC2G04DCKR	296-16688-1-ND	Dual Inverter Gate	SC70-6	.55	.39	.33
SN74AUC2G04DCKR	296-16688-2-ND	Dual Inverter Gate	SC70-6	465.00/3,000		
SN74AUC2G04YEPR	296-18574-1-ND	Dual Inverter Gate	6-DSBGA	1.14	.90	.81
SN74AUC2G04YEPR	296-18574-2-ND	Dual Inverter Gate	6-DSBGA	1260.00/3,000		
SN74AUC2G06DBVR	296-18575-1-ND	Dual Inverter Buffer/Driver	SOT-23-6	.55	.39	.33
SN74AUC2G06DBVR	296-18575-2-ND	Dual Inverter Buffer/Driver	SOT-23-6	465.00/3,000		
SN74AUC2G06DCKR	296-17052-1-ND	Dual Inverter Buffer/Driver with OD Output	SC70-6	.55	.39	.33
SN74AUC2G06DCKR	296-17052-2-ND	Dual Inverter Buffer/Driver with OD Output	SC70-6	465.00/3,000		
SN74AUC2G06YEPR	296-18576-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	1.14	.90	.81
SN74AUC2G06YEPR	296-18576-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	1260.00/3,000		
SN74AUC2G06YZPR	296-18577-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	.70	.55	.48
SN74AUC2G06YZPR	296-18577-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	696.00/3,000		
SN74AUC2G07DBVR	296-15736-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.55	.39	.33
SN74AUC2G07DBVR	296-15736-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	465.00/3,000		
SN74AUC2G07DCKR	296-18763-1-ND	Dual Buffer/Driver with OD Output	SC70-6	.55	.39	.33
SN74AUC2G07DCKR	296-18763-2-ND	Dual Buffer/Driver with OD Output	SC70-6	465.00/3,000		
SN74AUC2G07YEPR	296-18772-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1.14	.90	.81
SN74AUC2G07YEPR	296-18772-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1260.00/3,000		
SN74AUC2G07YZPR	296-18774-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.70	.55	.48
SN74AUC2G07YZPR	296-18774-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	696.00/3,000		
SN74AUC2G08DCTR	296-18794-1-ND	Dual 2-Input Positive AND Gate	SM8	.66	.47	.40
SN74AUC2G08DCTR	296-18794-2-ND	Dual 2-Input Positive AND Gate	SM8	558.00/3,000		
SN74AUC2G08DCUR	296-18823-1-ND	Dual 2-Input Positive AND Gate	US8	.72	.51	.43
SN74AUC2G08DCUR	296-18823-2-ND	Dual 2-Input Positive AND Gate	US8	606.00/3,000		
SN74AUC2G08YEPR	296-18863-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1.14	.90	.81
SN74AUC2G08YEPR	296-18863-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1260.00/3,000		
SN74AUC2G08YZPR	296-17833-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.79	.62	.54
SN74AUC2G08YZPR	296-17833-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	783.00/3,000		
SN74AUC2G32DCTR	296-18886-1-ND	Dual 2-Input Positive OR Gate	SM8	.66	.47	.40
SN74AUC2G32DCTR	296-18886-2-ND	Dual 2-Input Positive OR Gate	SM8	558.00/3,000		
SN74AUC2G32DCUR	296-18887-1-ND	Dual 2-Input Positive OR Gate	US8	.72	.51	.43
SN74AUC2G32DCUR	296-18887-2-ND	Dual 2-Input Positive OR Gate	US8	606.00/3,000		
SN74AUC2G32YEPR	296-18896-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1.14	.90	.81
SN74AUC2G32YEPR	296-18896-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1260.00/3,000		
SN74AUC2G32YZPR	296-22013-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.79	.62	.54
SN74AUC2G32YZPR	296-22013-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	783.00/3,000		
SN74AUC2G34DBVR	296-17231-1-ND	Dual Buffer Gate	SOT-23-6	.55	.39	.33
SN74AUC2G34DBVR	296-17231-2-ND	Dual Buffer Gate	SOT-23-6	465.00/3,000		
SN74AUC2G34DCKR	296-18939-1-ND	Dual Buffer Gate	SC70-6	.55	.39	.33
SN74AUC2G34DCKR	296-18939-2-ND	Dual Buffer Gate	SC70-6	465.00/3,000		
SN74AUC2G34DRLR	296-18648-1-ND	Dual Buffer Gate	SOT-6	.63	.45	.38
SN74AUC2G34DRLR	296-18648-2-ND	Dual Buffer Gate	SOT-6	712.00/4,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC2G34YEPR	296-19050-1-ND	Dual Buffer Gate	6-DSBGA	1.14	.90	.81
SN74AUC2G34YEPR	296-19050-2-ND	Dual Buffer Gate	6-DSBGA	1260.00/3,000		
SN74AUC2G34YZPR	296-15981-1-ND	Dual Buffer Gate	6-DSBGA	.70	.55	.48
SN74AUC2G34YZPR	296-15981-2-ND	Dual Buffer Gate	6-DSBGA	768.00/3,000		
SN74AUC2G53DCTR	296-16634-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	SM8	.66	.47	.40
SN74AUC2G53DCTR	296-16634-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	SM8	558.00/3,000		
SN74AUC2G53DCUR	296-19051-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	US8	.72	.51	.43
SN74AUC2G53DCUR	296-19051-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	US8	606.00/3,000		
SN74AUC2G53YZPR	296-19052-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	.79	.62	.54
SN74AUC2G53YZPR	296-19052-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	783.00/3,000		
SN74AUC2G53YZTR	296-23241-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	.79	.62	.54
SN74AUC2G53YZTR	296-23241-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	783.00/3,000		
SN74AUC2G66DCTR	296-19053-1-ND	Dual Bilateral Analog Switch	SM8	.66	.47	.40
SN74AUC2G66DCTR	296-19053-2-ND	Dual Bilateral Analog Switch	SM8	558.00/3,000		
SN74AUC2G66DCUR	296-19054-1-ND	Dual Bilateral Analog Switch	US8	.72	.51	.43
SN74AUC2G66DCUR	296-19054-2-ND	Dual Bilateral Analog Switch	US8	606.00/3,000		
SN74AUC2G66YZPR	296-19055-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.79	.62	.54
SN74AUC2G66YZPR	296-19055-2-ND	Dual Bilateral Analog Switch	8-DSBGA	783.00/3,000		
SN74AUC2G79DCTR	296-19056-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.47	.40
SN74AUC2G79DCTR	296-19056-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	558.00/3,000		
SN74AUC2G79DCUR	296-19057-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.72	.51	.43
SN74AUC2G79DCUR	296-19057-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	606.00/3,000		
SN74AUC2G79YEPR	296-16640-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1.14	.90	.81
SN74AUC2G79YEPR	296-16640-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1260.00/3,000		
SN74AUC2G79YZPR	296-16641-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.62	.54
SN74AUC2G79YZPR	296-16641-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	783.00/3,000		
SN74AUC2G80DCTR	296-19058-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.47	.40
SN74AUC2G80DCTR	296-19058-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	558.00/3,000		
SN74AUC2G80DCUR	296-19059-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.72	.51	.43
SN74AUC2G80DCUR	296-19059-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	606.00/3,000		
SN74AUC2G80YEPR	296-16817-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1.14	.90	.81
SN74AUC2G80YEPR	296-16817-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1260.00/3,000		
SN74AUC2G80YZPR	296-16818-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.62	.54
SN74AUC2G80YZPR	296-16818-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	783.00/3,000		
SN74AUC2G86DCTR	296-19060-1-ND	Dual 2-Input Exclusive OR Gate	SM8	.66	.47	.40
SN74AUC2G86DCTR	296-19060-2-ND	Dual 2-Input Exclusive OR Gate	SM8	558.00/3,000		
SN74AUC2G86DCUR	296-16836-1-ND	Dual 2-Input Exclusive OR Gate	US8	.72	.51	.43
SN74AUC2G86DCUR	296-16836-2-ND	Dual 2-Input Exclusive OR Gate	US8	606.00/3,000		
SN74AUC2G86YEPR	296-19061-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1.14	.90	.81
SN74AUC2G86YEPR	296-19061-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1260.00/3,000		
SN74AUC2G86YZPR	296-19062-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.79	.62	.54
SN74AUC2G86YZPR	296-19062-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	783.00/3,000		
SN74AUC2G125DCTR	296-18881-1-ND	Tri-State Dual Bus Buffer Gate	SM8	.66	.47	.40
SN74AUC2G125DCTR	296-18881-2-ND	Tri-State Dual Bus Buffer Gate	SM8	558.00/3,000		
SN74AUC2G125DCUR	296-17925-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.72	.51	.43
SN74AUC2G125DCUR	296-17925-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	606.00/3,000		
SN74AUC2G125YZPR	296-16800-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.79	.62	.54
SN74AUC2G125YZPR	296-16800-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	783.00/3,000		
SN74AUC2G126DCTR	296-18885-1-ND	Tri-State Dual Bus Buffer Gate	SM8	.66	.47	.40
SN74AUC2G126DCTR	296-18885-2-ND	Tri-State Dual Bus Buffer Gate	SM8	558.00/3,000		
SN74AUC2G126DCUR	296-18970-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.72	.51	.43
SN74AUC2G126DCUR	296-18970-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	606.00/3,000		
SN74AUC2G126YZPR	296-16801-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.79	.62	.54
SN74AUC2G126YZPR	296-16801-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	783.00/3,000		
SN74AUC2G240DCTR	296-19038-1-ND	Tri-State Dual Buffer/Driver	SM8	.66	.47	.40
SN74AUC2G240DCTR	296-19038-2-ND	Tri-State Dual Buffer/Driver	SM8	558.00/3,000		
SN74AUC2G240DCUR	296-18882-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.72	.51	.43
SN74AUC2G240DCUR	296-18882-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	606.00/3,000		
SN74AUC2G240YZPR	296-16802-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.79	.62	.54
SN74AUC2G240YZPR	296-16802-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	783.00/3,000		
SN74AUC2G241DCTR	296-18883-1-ND	Tri-State Dual Buffer/Driver	SM8	.66	.47	.40
SN74AUC2G241DCTR	296-18883-2-ND	Tri-State Dual Buffer/Driver	SM8	558.00/3,000		
SN74AUC2G241DCUR	296-18884-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.72	.51	.43
SN74AUC2G241DCUR	296-18884-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	606.00/3,000		
SN74AUC2G241YEPR	296-16803-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.14	.90	.81
SN74AUC2G241YEPR	296-16803-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1260.00/3,000		
SN74AUC2GU04DBVR	296-19063-1-ND	Dual Inverter Gate	SOT-23-6	.72	.51	.43
SN74AUC2GU04DBVR	296-19063-2-ND	Dual Inverter Gate	SOT-23-6	604.50/3,000		
SN74AUC2GU04YZPR	296-19064-1-ND	Dual Inverter Gate	6-DSBGA	.84	.65	.57
SN74AUC2GU04YZPR	296-19064-2-ND	Dual Inverter Gate	6-DSBGA	828.00/3,000		
SN74AUC00RGYR	296-16749-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.97	.75	.66
SN74AUC00RGYR	296-16749-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	957.00/3,000		
SN74AUC04RGYR	296-16751-1-ND	Hex Inverter	14-QFN	.97	.75	.66
SN74AUC04RGYR	296-16751-2-ND	Hex Inverter	14-QFN	957.00/3,000		
SN74AUC06RGYR	296-16752-1-ND	Hex Inverter Buffer/Driver with OD Output	14-QFN	.97	.75	.66
SN74AUC06RGYR	296-16752-2-ND	Hex Inverter Buffer/Driver with OD Output	14-QFN	957.00/3,000		
SN74AUC07RGYR	296-17007-1-ND	Hex Buffer/Driver with OD Output	14-QFN	.97	.75	.66

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC07RGYR	296-17007-2-ND	Hex Buffer/Driver with OD Output	14-QFN	957.00/3,000		
SN74AUC08RGYR	296-16753-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.97	.75	.66
SN74AUC08RGYR	296-16753-2-ND	Quad 2-Input Positive AND Gate	14-QFN	957.00/3,000		
SN74AUC14RGYR	296-18265-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.97	.75	.66
SN74AUC14RGYR	296-18265-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	957.00/3,000		
SN74AUC17RGYR	296-18544-1-ND	Hex Schmitt-Trigger Buffer	14-QFN	.97	.75	.66
SN74AUC17RGYR	296-18544-2-ND	Hex Schmitt-Trigger Buffer	14-QFN	957.00/3,000		
SN74AUC32RGYR	296-16754-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.97	.75	.66
SN74AUC32RGYR	296-16754-2-ND	Quad 2-Input Positive OR Gate	14-QFN	957.00/3,000		
SN74AUC34RGYR	296-19066-1-ND	Hex Buffer Gate	14-QFN	.97	.75	.66
SN74AUC34RGYR	296-19066-2-ND	Hex Buffer Gate	14-QFN	957.00/3,000		
SN74AUC74RGYR	296-17820-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	.97	.75	.66
SN74AUC74RGYR	296-17820-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	957.00/3,000		
SN74AUC125RGYR	296-17121-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	1.25	.99	.90
SN74AUC125RGYR	296-17121-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	1386.00/3,000		
SN74AUC126RGYR	296-18543-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	1.25	.99	.90
SN74AUC126RGYR	296-18543-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	1386.00/3,000		
SN74AUC240RGYR	296-15436-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.82	1.44	1.30
SN74AUC240RGYR	296-15436-2-ND	Tri-State Octal Buffer/Driver	20-QFN	2016.00/3,000		
SN74AUC244RGYR	296-15437-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	2.63	2.03	1.84
SN74AUC244RGYR	296-15437-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	3039.00/3,000		
SN74AUC245GQNR	296-17032-1-ND	Tri-State Octal Bus Transceiver	20-BGA	2.63	2.03	1.84
SN74AUC245GQNR	296-17032-2-ND	Tri-State Octal Bus Transceiver	20-BGA	1088.00/1,000		
SN74AUC245RGYR	296-15438-1-ND	Tri-State Octal Bus Transceiver	20-QFN	2.63	2.03	1.84
SN74AUC245RGYR	296-15438-2-ND	Tri-State Octal Bus Transceiver	20-QFN	3039.00/3,000		
SN74AUC245ZQNR	296-19284-1-ND	Tri-State Octal Bus Transceiver	20-BGA	2.80	2.16	1.96
SN74AUC245ZQNR	296-19284-2-ND	Tri-State Octal Bus Transceiver	20-BGA	1160.00/1,000		
SN74AUC16240DGGR	296-15408-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.98	2.30	2.09
SN74AUC16240DGGR	296-15408-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2295.00/2,000		
SN74AUC16240DGVR	296-15409-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.98	2.30	2.09
SN74AUC16240DGVR	296-15409-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2295.00/2,000		
SN74AUC16240GQLR	296-15410-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3.90	3.19	2.86
SN74AUC16240GQLR	296-15410-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	1820.00/1,000		
SN74AUC16244DGGR	296-15411-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.98	2.30	2.09
SN74AUC16244DGGR	296-15411-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2296.00/2,000		
SN74AUC16244DGVR	296-15412-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.98	2.30	2.09
SN74AUC16244DGVR	296-15412-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2295.00/2,000		
SN74AUC16244ZQLR	296-17031-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3.90	3.19	2.86
SN74AUC16244ZQLR	296-17031-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	1820.00/1,000		
SN74AUC16245DGGR	296-15413-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.98	2.30	2.09
SN74AUC16245DGGR	296-15413-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2296.00/2,000		
SN74AUC16245DGVR	296-15414-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.98	2.30	2.09
SN74AUC16245DGVR	296-15414-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2295.00/2,000		
SN74AUC16245GQLR	296-15415-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	3.90	3.19	2.86
SN74AUC16245GQLR	296-15415-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	1820.00/1,000		
SN74AUC16245ZQLR	296-19283-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	3.90	3.19	2.86
SN74AUC16245ZQLR	296-19283-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1820.00/1,000		
SN74AUC16373DGVR	296-15417-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2.98	2.30	2.09
SN74AUC16373DGVR	296-15417-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2295.00/2,000		
SN74AUC16374DGGR	296-15418-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2.98	2.30	2.09
SN74AUC16374DGGR	296-15418-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2295.00/2,000		
SN74AUC16374DGVR	296-15419-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2.98	2.30	2.09
SN74AUC16374DGVR	296-15419-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2296.00/2,000		
SN74AUC16374GQLR	296-13919-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	3.90	3.19	2.86
SN74AUC16374GQLR	296-13919-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	1820.00/1,000		
SN74AUC16501DGGR	296-15420-1-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TSSOP	4.50	3.68	3.30
SN74AUC16501DGGR	296-15420-2-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TSSOP	3990.00/2,000		
SN74AUC16501DGVR	296-15421-1-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TVSOP	4.50	3.68	3.30
SN74AUC16501DGVR	296-15421-2-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TVSOP	3990.00/2,000		
SN74AUC32244GKER	296-15439-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	6.90	5.64	5.06
SN74AUC32244GKER	296-15439-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3220.00/1,000		
SN74AUC32244ZKER	296-23242-1-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	3.90	3.19	2.86
SN74AUC32244ZKER	296-23242-2-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	1820.00/1,000		
SN74AUC32245GKER	296-13610-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	6.75	5.52	4.95
SN74AUC32245GKER	296-13610-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3150.00/1,000		
SN74AUC32245ZKER	296-23243-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	3.75	3.07	2.75
SN74AUC32245ZKER	296-23243-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	1750.00/1,000		
SN74AUC32374GKER	296-19065-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	6.90	5.64	5.06
SN74AUC32374GKER	296-19065-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3220.00/1,000		
AUCH Family						
SN74AUCH240RGYR	296-15443-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.67	1.32	1.19
SN74AUCH240RGYR	296-15443-2-ND	Tri-State Octal Buffer/Driver	20-QFN	1848.00/3,000		
SN74AUCH244RGYR	296-19068-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	1.67	1.32	1.19
SN74AUCH244RGYR	296-19068-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	1848.00/3,000		
SN74AUCH245RGYR	296-15444-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.67	1.32	1.19
SN74AUCH245RGYR	296-15444-2-ND	Tri-State Octal Bus Transceiver	20-QFN	1848.00/3,000		
SN74AUCH16244DGGR	296-15440-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.98	2.30	2.09
SN74AUCH16244DGGR	296-15440-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2295.00/2,000		
SN74AUCH16244DGVR	296-15441-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.98	2.30	2.09
SN74AUCH16244DGVR	296-15441-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2296.00/2,000		
SN74AUCH16244GQLR	296-15442-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3.90	3.19	2.86
SN74AUCH16244GQLR	296-15442-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	1820.00/1,000		
SN74AUCH16244ZQLR	296-24980-1-ND	Tri-State 16-Bit Buffer/Driver* ***NEW!***	56-BGA	3.90	3.19	2.86
SN74AUCH16244ZQLR	296-24980-2-ND	Tri-State 16-Bit Buffer/Driver* ***NEW!***	56-BGA	1820.00/1,000		
SN74AUCH16374DGGR	296-17625-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2.98	2.30	2.09
SN74AUCH16374DGGR	296-17625-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2295.00/2,000		
SN74AUCH16374DGVR	296-19067-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2.98	2.30	2.09
SN74AUCH16374DGVR	296-19067-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2295.00/2,000		
SN74AUCH16374GQLR	296-15251-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-BGA	3.90	3.19	2.86
SN74AUCH16374GQLR	296-15251-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-BGA	1820.00/1,000		

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUCH32244GKER	296-15445-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	6.75	5.52	4.95
SN74AUCH32244GKER	296-15445-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3150.00/1,000		
SN74AUCH32244ZKER	296-23244-1-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	3.75	3.07	2.75
SN74AUCH32244ZKER	296-23244-2-ND	Tri-State 32-Bit Buffer/Driver	96-BGA	1750.00/1,000		
SN74AUCH32374GKER	296-17836-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	6.90	5.64	5.06
SN74AUCH32374GKER	296-17836-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3220.00/1,000		
AUCU Family						
SN74AUCU04RGYR	296-19069-1-ND	Hex Inverter	14-QFN	.97	.75	.66
SN74AUCU04RGYR	296-19069-2-ND	Hex Inverter	14-QFN	957.00/3,000		
AUP Family						
SN74AUP1G00DBVR	296-18581-1-ND	LP Single 2-Input Positive NAND Gate	SOT-23-5	.61	.36	.29
SN74AUP1G00DBVR	296-18581-2-ND	LP Single 2-Input Positive NAND Gate	SOT-23-5	312.00/3,000		
SN74AUP1G00DCKR	296-18200-1-ND	LP Single 2-Input Positive NAND Gate	SC70-5	.61	.36	.29
SN74AUP1G00DCKR	296-18200-2-ND	LP Single 2-Input Positive NAND Gate	SC70-5	312.00/3,000		
SN74AUP1G00DRLR	296-18712-1-ND	LP Single 2-Input Positive NAND Gate	SOT-5	.53	.35	.29
SN74AUP1G00DRLR	296-18712-2-ND	LP Single 2-Input Positive NAND Gate	SOT-5	480.00/4,000		
SN74AUP1G00DSFR	296-25724-1-ND	LP Single 2-Input Postive NAND Gate* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G00DSFR	296-25724-2-ND	LP Single 2-Input Postive NAND Gate* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G00YFPR	296-25391-1-ND	LP Single 2-Input Positive NAND Gate* ***NEW!***	6-DSBGA	.59	.42	.36
SN74AUP1G00YFPR	296-25391-2-ND	LP Single 2-Input Positive NAND Gate* ***NEW!***	6-DSBGA	501.00/3,000		
SN74AUP1G00YZPR	296-17898-1-ND	LP Single 2-Input Positive NAND Gate	5-DSBGA	.65	.46	.39
SN74AUP1G00YZPR	296-17898-2-ND	LP Single 2-Input Positive NAND Gate	5-DSBGA	548.70/3,000		
SN74AUP1G02DBVR	296-19070-1-ND	LP Single 2-Input Positive NOR Gate	SOT-23-5	.61	.36	.29
SN74AUP1G02DBVR	296-19070-2-ND	LP Single 2-Input Positive NOR Gate	SOT-23-5	312.00/3,000		
SN74AUP1G02DCKR	296-22014-1-ND	LP Single 2-Input Positive NOR Gate	SC70-5	.61	.36	.29
SN74AUP1G02DCKR	296-22014-2-ND	LP Single 2-Input Positive NOR Gate	SC70-5	312.00/3,000		
SN74AUP1G02DRLR	296-18649-1-ND	LP Single 2-Input Positive NOR Gate	SOT-5	.53	.35	.29
SN74AUP1G02DRLR	296-18649-2-ND	LP Single 2-Input Positive NOR Gate	SOT-5	480.00/4,000		
SN74AUP1G02DSFR	296-25725-1-ND	LP Single 2-Input Positive NOR Gate* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G02DSFR	296-25725-2-ND	LP Single 2-Input Positive NOR Gate* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G02YFPR	296-25392-1-ND	LP Single 2-Input Positive NOR Gate* ***NEW!***	6-DSBGA	.59	.42	.36
SN74AUP1G02YFPR	296-25392-2-ND	LP Single 2-Input Positive NOR Gate* ***NEW!***	6-DSBGA	501.00/3,000		
SN74AUP1G04DBVR	296-19071-1-ND	Low Power Single Inverter Gate	SOT-23-5	.61	.36	.29
SN74AUP1G04DBVR	296-19071-2-ND	Low Power Single Inverter Gate	SOT-23-5	312.00/3,000		
SN74AUP1G04DCKR	296-19072-1-ND	Low Power Single Inverter Gate	SC70-5	.61	.36	.29
SN74AUP1G04DCKR	296-19072-2-ND	Low Power Single Inverter Gate	SC70-5	312.00/3,000		
SN74AUP1G04DRLR	296-19285-1-ND	Low Power Single Inverter Gate	SOT-5	.53	.35	.29
SN74AUP1G04YFPR	296-25196-1-ND	Low Pwr Single Inverter Gate* ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G04YFPR	296-25196-2-ND	Low Pwr Single Inverter Gate* ***NEW!***	4-DSBGA	502.20/3,000		
SN74AUP1G06DBVR	296-17561-1-ND	LP Single Inverter Buffer/Driver	SOT-23-5	.61	.36	.29
SN74AUP1G06DBVR	296-17561-2-ND	LP Single Inverter Buffer/Driver	SOT-23-5	312.00/3,000		
SN74AUP1G06DCKR	296-17562-1-ND	LP Single Inverter Buffer/Driver	SC70-5	.61	.36	.29
SN74AUP1G06DCKR	296-17562-2-ND	LP Single Inverter Buffer/Driver	SC70-5	312.00/3,000		
SN74AUP1G06DRLR	296-21810-1-ND	LP Single Inverter Buffer/Driver	SOT-5	.53	.35	.29
SN74AUP1G06DRLR	296-21810-2-ND	LP Single Inverter Buffer/Driver	SOT-5	480.00/4,000		
SN74AUP1G06YFPR	296-25197-1-ND	LP Single Inverter Buffer/Drvr* ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G06YFPR	296-25197-2-ND	LP Single Inverter Buffer/Drvr* ***NEW!***	4-DSBGA	502.20/3,000		
SN74AUP1G07DBVR	296-19073-1-ND	Low Power Single Buffer/Driver	SOT-23-5	.61	.36	.29
SN74AUP1G07DBVR	296-19073-2-ND	Low Power Single Buffer/Driver	SOT-23-5	312.00/3,000		
SN74AUP1G07DCKR	296-18256-1-ND	Low Power Single Buffer/Driver	SC70-5	.61	.36	.29
SN74AUP1G07DCKR	296-18256-2-ND	Low Power Single Buffer/Driver	SC70-5	312.00/3,000		
SN74AUP1G07DRLR	296-21811-1-ND	Low Power Single Buffer/Driver	SOT-5	.53	.35	.29
SN74AUP1G07DRLR	296-21811-2-ND	Low Power Single Buffer/Driver	SOT-5	480.00/4,000		
SN74AUP1G07DSFR	296-25726-1-ND	Low Power Single Buffer/Driver* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G07DSFR	296-25726-2-ND	Low Power Single Buffer/Driver* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G07YFPR	296-25198-1-ND	Low Power Single Buffer/Driver ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G07YFPR	296-25198-2-ND	Low Power Single Buffer/Driver ***NEW!***	4-DSBGA	501.00/3,000		
SN74AUP1G08DBVR	296-19074-1-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	.61	.36	.29
SN74AUP1G08DBVR	296-19074-2-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	312.00/3,000		
SN74AUP1G08DCKR	296-19075-1-ND	Low Power 2-Input Positive AND Gate	SC70-5	.61	.36	.29
SN74AUP1G08DCKR	296-19075-2-ND	Low Power 2-Input Positive AND Gate	SC70-5	312.00/3,000		
SN74AUP1G08DRLR	296-18650-1-ND	Low Power 2-Input Positive AND Gate	SOT-5	.53	.35	.29
SN74AUP1G08DRLR	296-18650-2-ND	Low Power 2-Input Positive AND Gate	SOT-5	480.00/4,000		
SN74AUP1G08DSFR	296-25616-1-ND	Low Power 2-Input Positive AND Gate* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G08DSFR	296-25616-2-ND	Low Power 2-Input Positive AND Gate* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G08YFPR	296-25393-1-ND	Low Power 2-Input Positive AND Gate* ***NEW!***	6-DSBGA	.59	.42	.36
SN74AUP1G08YFPR	296-25393-2-ND	Low Power 2-Input Positive AND Gate* ***NEW!***	6-DSBGA	501.00/3,000		
SN74AUP1G08YZPR	296-17366-1-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	.65	.46	.39
SN74AUP1G08YZPR	296-17366-2-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	549.00/3,000		
SN74AUP1G14DBVR	296-18213-1-ND	LP Single Schmitt-Trigger Inverter	SOT-23-5	.61	.36	.29
SN74AUP1G14DBVR	296-18213-2-ND	LP Single Schmitt-Trigger Inverter	SOT-23-5	312.00/3,000		
SN74AUP1G14DCKR	296-19076-1-ND	LP Single Schmitt-Trigger Inverter	SC70-5	.61	.36	.29
SN74AUP1G14DCKR	296-19076-2-ND	LP Single Schmitt-Trigger Inverter	SC70-5	312.00/3,000		
SN74AUP1G14DRLR	296-18314-1-ND	LP Single Schmitt-Trigger Inverter	SOT-5	.53	.35	.29
SN74AUP1G14DRLR	296-18314-2-ND	LP Single Schmitt-Trigger Inverter	SOT-5	480.00/4,000		
SN74AUP1G14YFPR	296-25199-1-ND	LP Single Schmitt-Trigger Inverter* ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G14YFPR	296-25199-2-ND	LP Single Schmitt-Trigger Inverter* ***NEW!***	4-DSBGA	502.20/3,000		
SN74AUP1G17DBVR	296-19077-1-ND	LP Single Schmitt-Trigger Buffer	SOT-23-5	.61	.36	.29
SN74AUP1G17DBVR	296-19077-2-ND	LP Single Schmitt-Trigger Buffer	SOT-23-5	312.00/3,000		
SN74AUP1G17DCKR	296-18209-1-ND	LP Single Schmitt-Trigger Buffer	SC70-5	.61	.36	.29
SN74AUP1G17DCKR	296-18209-2-ND	LP Single Schmitt-Trigger Buffer	SC70-5	312.00/3,000		
SN74AUP1G17DRLR	296-18295-1-ND	LP Single Schmitt-Trigger Buffer	SOT-5	.53	.35	.29
SN74AUP1G17DRLR	296-18295-2-ND	LP Single Schmitt-Trigger Buffer	SOT-5	480.00/4,000		
SN74AUP1G17MDCKREP	296-22293-1-ND	LP Single Schmitt-Trigger Buffer	SC70-5	1.63	1.29	1.17
SN74AUP1G17MDCKREP	296-22293-2-ND	LP Single Schmitt-Trigger Buffer	SC70-5	1806.00/3,000		
SN74AUP1G17YFPR	296-25200-1-ND	LP Sngl Schmitt-Trigger Buffer* ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G17YFPR	296-25200-2-ND	LP Sngl Schmitt-Trigger Buffer* ***NEW!***	4-DSBGA	501.00/3,000		
SN74AUP1G17YZPR	296-19078-1-ND	LP Single Schmitt-Trigger Buffer	5-DSBGA	.65	.46	.39
SN74AUP1G17YZPR	296-19078-2-ND	LP Single Schmitt-Trigger Buffer	5-DSBGA	549.00/3,000		
SN74AUP1G32DBVR	296-19079-1-ND	LP Single 2-Input Positive OR Gate	SOT-23-5	.61	.36	.29
SN74AUP1G32DBVR	296-19079-2-ND	LP Single 2-Input Positive OR Gate	SOT-23-5	312.00/3,000		
SN74AUP1G32DCKR	296-18714-1-ND	LP Single 2-Input Positive OR Gate	SC70-5	.61	.36	.29
SN74AUP1G32DCKR	296-18714-2-ND	LP Single 2-Input Positive OR Gate	SC70-5	312.00/3,000		
SN74AUP1G32DRLR	296-18315-1-ND	LP Single 2-Input Positive OR Gate	SOT-5	.53	.35	.29
SN74AUP1G32DRLR	296-18315-2-ND	LP Single 2-Input Positive OR Gate	SOT-5	480.00/4,000		
SN74AUP1G32YFPR	296-25395-1-ND	LP Single 2-Input Positive OR Gate* ***NEW!***	6-DSBGA	.59	.42	.36
SN74AUP1G32YFPR	296-25395-2-ND	LP Single 2-Input Positive OR Gate* ***NEW!***	6-DSBGA	501.00/3,000		
SN74AUP1G32YZPR	296-21016-1-ND	LP Single 2-Input Positive OR Gate	5-DSBGA	.65	.46	.39
SN74AUP1G32YZPR	296-21016-2-ND	LP Single 2-Input Positive OR Gate	5-DSBGA	549.00/3,000		
SN74AUP1G34DBVR	296-19080-1-ND	Low Power Single Buffer Gate	SOT-23-5	.61	.36	.29
SN74AUP1G34DBVR	296-19080-2-ND	Low Power Single Buffer Gate	SOT-23-5	312.00/3,000		
SN74AUP1G34DCKR	296-19081-1-ND	Low Power Single Buffer Gate	SC70-5	.61	.36	.29
SN74AUP1G34DCKR	296-19081-2-ND	Low Power Single Buffer Gate	SC70-5	312.00/3,000		
SN74AUP1G34DRLR	296-18715-1-ND	Low Power Single Buffer Gate	SOT-5	.53	.35	.29
SN74AUP1G34DRLR	296-18715-2-ND	Low Power Single Buffer Gate	SOT-5	480.00/4,000		
SN74AUP1G34YFPR	296-25201-1-ND	Low Power Single Buffer Gate* ***NEW!***	4-DSBGA	.59	.42	.36
SN74AUP1G34YFPR	296-25201-2-ND	Low Power Single Buffer Gate* ***NEW!***	4-DSBGA	501.00/3,000		
SN74AUP1G34YZPR	296-21017-1-ND	Low Power Single Buffer Gate	5-DSBGA	.65	.46	.39
SN74AUP1G34YZPR	296-21017-2-ND	Low Power Single Buffer Gate	5-DSBGA	549.00/3,000		
SN74AUP1G57DBVR	296-19082-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.57	.38	.31
SN74AUP1G57DBVR	296-19082-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	387.00/3,000		
SN74AUP1G57DCKR	296-19083-1-ND	LP Configurable Multiple Function Gate	SC70-6	.57	.38	.31
SN74AUP1G57DCKR	296-19083-2-ND	LP Configurable Multiple Function Gate	SC70-6	387.00/3,000		
SN74AUP1G57DRLR	296-18716-1-ND	LP Configurable Multiple Function Gate	SOT-6	.51	.36	.31
SN74AUP1G57DRLR	296-18716-2-ND	LP Configurable Multiple Function Gate	SOT-6	576.00/4,000		
SN74AUP1G57YFPR	296-25396-1-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	.70	.50	.43
SN74AUP1G57YFPR	296-25396-2-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	594.00/3,000		
SN74AUP1G57YZPR	296-17367-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.76	.54	.46
SN74AUP1G57YZPR	296-17367-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	642.00/3,000		
SN74AUP1G58DBVR	296-16819-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.57	.38	.31
SN74AUP1G58DBVR	296-16819-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	387.00/3,000		
SN74AUP1G58DCKR	296-16820-1-ND	LP Configurable Multiple Function Gate	SC70-6	.57	.38	.31
SN74AUP1G58DCKR	296-16820-2-ND	LP Configurable Multiple Function Gate	SC70-6	387.00/3,000		
SN74AUP1G58DRLR	296-18612-1-ND	LP Configurable Multiple Function Gate	SOT-6	.51	.36	.31
SN74AUP1G58DRLR	296-18612-2-ND	LP Configurable Multiple Function Gate	SOT-6	576.00/4,000		
SN74AUP1G58YFPR	296-25397-1-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	.70	.50	.43
SN74AUP1G58YFPR	296-25397-2-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	594.00/3,000		
SN74AUP1G58YZPR	296-17368-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.76	.54	.46
SN74AUP1G58YZPR	296-17368-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	642.00/3,000		
SN74AUP1G74DCUR	296-19761-1-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-US8	.72	.51	.43
SN74AUP1G74DCUR	296-19761-2-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-US8	606.00/3,000		
SN74AUP1G74DQER	296-25563-1-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	8-X2SON	.69	.49	.42
SN74AUP1G74DQER	296-25563-2-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	8-X2SON	905.00/5,000		
SN74AUP1G74YZPR	296-22775-1-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.62	.54
SN74AUP1G74YZPR	296-22775-2-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	783.00/3,000		
SN74AUP1G79DBVR	296-17659-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.61	.36	.29
SN74AUP1G79DBVR	296-17659-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	312.00/3,000		
SN74AUP1G79DCKR	296-17660-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.61	.36	.29
SN74AUP1G79DCKR	296-17660-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	312.00/3,000		
SN74AUP1G79DRLR	296-19594-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-5	.53	.35	.29
SN74AUP1G79DRLR	296-19594-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-5	480.00/4,000		
SN74AUP1G79DSFR	296-25617-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G79DSFR	296-25617-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G79YZPR	296-21018-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.65	.46	.39
SN74AUP1G79YZPR	296-21018-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	549.00/3,000		
SN74AUP1G80DBVR	296-17841-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.61	.36	.29
SN74AUP1G80DBVR	296-17841-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	312.00/3,000		
SN74AUP1G80DCKR	296-19084-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.61	.36	.29
SN74AUP1G80DCKR	296-19084-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	312.00/3,000		
SN74AUP1G80DSFR	296-25727-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	6-SON	.47	.31	.26
SN74AUP1G80DSFR	296-25727-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	6-SON	505.00/5,000		
SN74AUP1G80YZPR	296-21019-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.65	.46	.39
SN74AUP1G80YZPR	296-21019-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	549.00/3,000		
SN74AUP1G97DBVR	296-19085-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.57	.38	.31
SN74AUP1G97DBVR	296-19085-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	387.00/3,000		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AUP1G97DCKR	296-19086-1-ND	LP Configurable Multiple Function Gate	SC70-6	.57	.38	.31
SN74AUP1G97DCKR	296-19086-2-ND	LP Configurable Multiple Function Gate	SC70-6	387.00/3,000		
SN74AUP1G97DRLR	296-18316-1-ND	LP Configurable Multiple Function Gate	SOT-6	.51	.36	.31
SN74AUP1G97DRLR	296-18316-2-ND	LP Configurable Multiple Function Gate	SOT-6	576.00/4,000		
SN74AUP1G97YFPR	296-25398-1-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	.70	.50	.43
SN74AUP1G97YFPR	296-25398-2-ND	LP Configurable Multiple Function Gate* ***NEW!***	6-DSBGA	594.00/3,000		
SN74AUP1G97YZPR	296-17369-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.76	.54	.46
SN74AUP1G97YZPR	296-17369-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	642.00/3,000		
SN74AUP1G98DBVR	296-19087-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.57	.38	.31
SN74AUP1G98DBVR	296-19087-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	387.00/3,000		
SN74AUP1G98DRLR	296-18651-1-ND	LP Configurable Multiple Function Gate	SOT-6	.51	.36	.31
SN74AUP1G98DRLR	296-18651-2-ND	LP Configurable Multiple Function Gate	SOT-6	576.00/4,000		
SN74AUP1G98YZPR	296-17370-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.76	.54	.46
SN74AUP1G98YZPR	296-17370-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	642.00/3,000		
SN74AUP1G99DCUR	296-19090-1-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	US8	.66	.47	.40
SN74AUP1G99DCUR	296-19090-2-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	US8	558.00/3,000		
SN74AUP1G125DBVR	296-21011-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	.61	.36	.29
SN74AUP1G125DBVR	296-21011-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	312.00/3,000		
SN74AUP1G125DCKR	296-21012-1-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	.61	.36	.29
SN74AUP1G125DCKR	296-21012-2-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	312.00/3,000		
SN74AUP1G125YFPR	296-25394-1-ND	Tri-State LP Single Bus Buffer Gate* ***NEW!***	6-DSBGA	.59	.42	.36
SN74AUP1G125YFPR	296-25394-2-ND	Tri-State LP Single Bus Buffer Gate* ***NEW!***	6-DSBGA	501.00/3,000		
SN74AUP1G125YZTR	296-23245-1-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	.65	.46	.39
SN74AUP1G125YZTR	296-23245-2-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	549.00/3,000		
SN74AUP1G126DBVR	296-18005-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	.61	.36	.29
SN74AUP1G126DBVR	296-18005-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	312.00/3,000		
SN74AUP1G126DCKR	296-18006-1-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	.61	.36	.29
SN74AUP1G126DCKR	296-18006-2-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	312.00/3,000		
SN74AUP1G126DRLR	296-18603-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-5	.53	.35	.29
SN74AUP1G126DRLR	296-18603-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-5	480.00/4,000		
SN74AUP1G126YZPR	296-21014-1-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	.65	.46	.39
SN74AUP1G126YZPR	296-21014-2-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	549.00/3,000		
SN74AUP1G240DBVR	296-17917-1-ND	Tri-State, LP, Single Buffer/Driver	SOT-23-5	.57	.38	.31
SN74AUP1G240DBVR	296-17917-2-ND	Tri-State, LP, Single Buffer/Driver	SOT-23-5	387.00/3,000		
SN74AUP1G240DCKR	296-17918-1-ND	Tri-State, LP, Single Buffer/Driver	SC70-5	.57	.38	.31
SN74AUP1G240DCKR	296-17918-2-ND	Tri-State, LP, Single Buffer/Driver	SC70-5	387.00/3,000		
SN74AUP1G240YZPR	296-21015-1-ND	Tri-State, LP, Single Buffer/Driver	5-DSBGA	.76	.54	.46
SN74AUP1G240YZPR	296-21015-2-ND	Tri-State, LP, Single Buffer/Driver	5-DSBGA	642.00/3,000		
SN74AUP1T57DBVR	296-17524-1-ND	Single Supply Voltage Translator	SOT-23-6	.61	.43	.37
SN74AUP1T57DBVR	296-17524-2-ND	Single Supply Voltage Translator	SOT-23-6	511.50/3,000		
SN74AUP1T57DCKR	296-17525-1-ND	Single Supply Voltage Translator	SC70-6	.72	.51	.43
SN74AUP1T57DCKR	296-17525-2-ND	Single Supply Voltage Translator	SC70-6	606.00/3,000		
SN74AUP1T57YZPR	296-24736-1-ND	Single Supply Voltage Translator* ***NEW!***	6-DSBGA	.72	.51	.43
SN74AUP1T57YZPR	296-24736-2-ND	Single Supply Voltage Translator* ***NEW!***	6-DSBGA	604.50/3,000		
SN74AUP1T58DBVR	296-17526-1-ND	Single Supply Voltage Translator	SOT-23-6	.61	.43	.37
SN74AUP1T58DBVR	296-17526-2-ND	Single Supply Voltage Translator	SOT-23-6	511.50/3,000		
SN74AUP1T58DCKR	296-17527-1-ND	Single Supply Voltage Translator	SC70-6	.61	.43	.37
SN74AUP1T58DCKR	296-17527-2-ND	Single Supply Voltage Translator	SC70-6	511.50/3,000		
SN74AUP1T97DBVR	296-17563-1-ND	Single Supply Voltage Level Translator	SOT-23-6	.61	.43	.37
SN74AUP1T97DBVR	296-17563-2-ND	Single Supply Voltage Level Translator	SOT-23-6	511.50/3,000		
SN74AUP1T97DCKR	296-17564-1-ND	Single Supply Voltage Level Translator	SC70-6	.61	.43	.37
SN74AUP1T97DCKR	296-17564-2-ND	Single Supply Voltage Level Translator	SC70-6	511.50/3,000		
SN74AUP1T97YZPR	296-17899-1-ND	Single Supply Voltage Level Translator	6-DSBGA	.61	.43	.37
SN74AUP1T97YZPR	296-17899-2-ND	Single Supply Voltage Level Translator	6-DSBGA	513.00/3,000		
SN74AUP1T98DBVR	296-17528-1-ND	Single Supply Voltage Level Translator	SOT-23-6	.79	.62	.54
SN74AUP1T98DBVR	296-17528-2-ND	Single Supply Voltage Level Translator	SOT-23-6	783.00/3,000		
SN74AUP1T98YZPR	296-21021-1-ND	Single Supply Voltage Level Translator	6-DSBGA	.79	.62	.54
SN74AUP1T98YZPR	296-21021-2-ND	Single Supply Voltage Level Translator	6-DSBGA	783.00/3,000		
SN74AUP2G00DQER	296-25618-1-ND	LP Dual 2-Input Pos. NAND Gate* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP2G00DQER	296-25618-2-ND	LP Dual 2-Input Pos. NAND Gate* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP2G00YFPR	296-25202-1-ND	LP Dual 2-Input Pos. AND Gate* ***NEW!***	8-DSBGA	.66	.51	.45
SN74AUP2G00YFPR	296-25202-2-ND	LP Dual 2-Input Pos. AND Gate* ***NEW!***	8-DSBGA	654.00/3,000		
SN74AUP2G02YFPR	296-25203-1-ND	LP Dual 2-Input Pos. NOR Gate* ***NEW!***	8-DSBGA	.66	.51	.45
SN74AUP2G02YFPR	296-25203-2-ND	LP Dual 2-Input Pos. NOR Gate* ***NEW!***	8-DSBGA	654.00/3,000		
SN74AUP2G04DSFR	296-25619-1-ND	Low Power Dual Inverter Gate* ***NEW!***	6-SON	.59	.42	.36
SN74AUP2G04DSFR	296-25619-2-ND	Low Power Dual Inverter Gate* ***NEW!***	6-SON	775.00/5,000		
SN74AUP2G04YFPR	296-25204-1-ND	Low Power Dual Inverter Gate* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G04YFPR	296-25204-2-ND	Low Power Dual Inverter Gate* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G06YFPR	296-25205-1-ND	LP Dual Inverter Buffer/Driver* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G06YFPR	296-25205-2-ND	LP Dual Inverter Buffer/Driver* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G07YFPR	296-25206-1-ND	LP Dual Buffer/Driver* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G07YFPR	296-25206-2-ND	LP Dual Buffer/Driver* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G08DQER	296-25638-1-ND	LP Dual 2-Input Positive AND Gate* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP2G08DQER	296-25638-2-ND	LP Dual 2-Input Positive AND Gate* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP2G08YFPR	296-23530-1-ND	LP Dual 2-Input Positive AND Gate	8-DSBGA	.66	.51	.45
SN74AUP2G08YFPR	296-23530-2-ND	LP Dual 2-Input Positive AND Gate	8-DSBGA	654.00/3,000		
SN74AUP2G08YZPR	296-23531-1-ND	LP Dual 2-Input Positive AND Gate	8-DSBGA	.70	.55	.48
SN74AUP2G08YZPR	296-23531-2-ND	LP Dual 2-Input Positive AND Gate	8-DSBGA	696.00/3,000		
SN74AUP2G14YFPR	296-25207-1-ND	LP Dual Schmitt-Trigger Inverter* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G14YFPR	296-25207-2-ND	LP Dual Schmitt-Trigger Inverter* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G17YFPR	296-25208-1-ND	LP Dual Schmitt-Trigger Buffer* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G17YFPR	296-25208-2-ND	LP Dual Schmitt-Trigger Buffer* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G32YFPR	296-25209-1-ND	LP Dual 2-Input Pos. OR Gate* ***NEW!***	8-DSBGA	.66	.51	.45
SN74AUP2G32YFPR	296-25209-2-ND	LP Dual 2-Input Pos. OR Gate* ***NEW!***	8-DSBGA	654.00/3,000		
SN74AUP2G34DSFR	296-25620-1-ND	Low Power Dual Buffer Gate* ***NEW!***	6-SON	.59	.42	.36

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AUP2G34DSFR	296-25620-2-ND	Low Power Dual Buffer Gate* ***NEW!***	6-SON	775.00/5,000		
SN74AUP2G34YFPR	296-25210-1-ND	Low Power Dual Buffer Gate* ***NEW!***	6-DSBGA	.66	.51	.45
SN74AUP2G34YFPR	296-25210-2-ND	Low Power Dual Buffer Gate* ***NEW!***	6-DSBGA	654.00/3,000		
SN74AUP2G79DCUR	296-25598-1-ND	Low Power Dual Positive Edge Triggered D-Type Flip-Flop* ***NEW!***	8-US8	.61	.43	.37
SN74AUP2G79DCUR	296-25598-2-ND	Low Power Dual Positive Edge Triggered D-Type Flip-Flop* ***NEW!***	8-US8	513.00/3,000		
SN74AUP2G80DCUR	296-25599-1-ND	Low Power Dual Positive Edge Triggered D-Type Flip-Flop* ***NEW!***	8-US8	.61	.43	.37
SN74AUP2G80DCUR	296-25599-2-ND	Low Power Dual Positive Edge Triggered D-Type Flip-Flop* ***NEW!***	8-US8	513.00/3,000		
SN74AUP2G125YZPR	296-24456-1-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	.70	.55	.48
SN74AUP2G125YZPR	296-24456-2-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	696.00/3,000		
SN74AUP2G126DQER	296-25639-1-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP2G126DQER	296-25639-2-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP2G126YFPR	296-24737-1-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	.66	.51	.45
SN74AUP2G126YFPR	296-24737-2-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	652.50/3,000		
SN74AUP2G126YZPR	296-24738-1-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	.70	.55	.48
SN74AUP2G126YZPR	296-24738-2-ND	Tri-St. LP Dual Bus Buffer Gate* ***NEW!***	8-DSBGA	696.00/3,000		
SN74AUP2G240DCUR	296-25593-1-ND	Tri-State LP Dual Buffer/Driver* ***NEW!***	8-US8	.61	.43	.37
SN74AUP2G240DCUR	296-25593-2-ND	Tri-State LP Dual Buffer/Driver* ***NEW!***	8-US8	513.00/3,000		
SN74AUP2G241DCUR	296-25597-1-ND	Tri-State LP Dual Buffer/Driver* ***NEW!***	8-US8	.61	.43	.37
SN74AUP2G241DCUR	296-25597-2-ND	Tri-State LP Dual Buffer/Driver* ***NEW!***	8-US8	513.00/3,000		
SN74AUP3G04DCUR	296-25600-1-ND	Low Power Triple Inverter Gate* ***NEW!***	8-US8	.61	.43	.37
SN74AUP3G04DCUR	296-25600-2-ND	Low Power Triple Inverter Gate* ***NEW!***	8-US8	513.00/3,000		
SN74AUP3G04DQER	296-25621-1-ND	Low Power Triple Inverter Gate* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP3G04DQER	296-25621-2-ND	Low Power Triple Inverter Gate* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP3G06DCUR	296-25601-1-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8-US8	.61	.43	.37
SN74AUP3G06DCUR	296-25601-2-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8-US8	513.00/3,000		
SN74AUP3G06DQER	296-25622-1-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP3G06DQER	296-25622-2-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP3G07DCUR	296-25594-1-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8-US8	.61	.43	.37
SN74AUP3G07DCUR	296-25594-2-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8-US8	513.00/3,000		
SN74AUP3G07DQER	296-25623-1-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP3G07DQER	296-25623-2-ND	Low Power Triple Inverter Buffer/Driver w/ Open Drain Outputs* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP3G14DQER	296-25624-1-ND	LP Triple Schmitt Trigger Inverter* ***NEW!***	8X2SON	.58	.41	.35
SN74AUP3G14DQER	296-25624-2-ND	LP Triple Schmitt Trigger Inverter* ***NEW!***	8X2SON	760.00/5,000		
SN74AUP3G14YFPR	296-25211-1-ND	LP Triple Schmitt Trigger Inverter* ***NEW!***	8-DSBGA	.66	.51	.45
SN74AUP3G14YFPR	296-25211-2-ND	LP Triple Schmitt Trigger Inverter* ***NEW!***	8-DSBGA	652.50/3,000		
SN74AUP3G17DCUR	296-25596-1-ND	LP Triple Schmitt Trigger Buffer* ***NEW!***	8-US8	.61	.43	.37
SN74AUP3G17DCUR	296-25596-2-ND	LP Triple Schmitt Trigger Buffer* ***NEW!***	8-US8	513.00/3,000		
SN74AUP3G34DCUR	296-25595-1-ND	Low Power Triple Buffer Gate* ***NEW!***	8-US8	.61	.43	.37
SN74AUP3G34DCUR	296-25595-2-ND	Low Power Triple Buffer Gate* ***NEW!***	8-US8	513.00/3,000		
		AVC Family				
74AVCA164245ZQLR	296-17203-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	4.50	3.68	3.30
74AVCA164245ZQLR	296-17203-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	2100.00/1,000		
74AVCAH164245ZQLR	296-17204-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	6.06	4.95	4.45
74AVCAH164245ZQLR	296-17204-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	2828.00/1,000		
74AVCB164245ZQLR	296-18284-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	6.30	5.15	4.62
74AVCB164245ZQLR	296-18284-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	2940.00/1,000		
74AVCB164245ZRDR	296-22003-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	54-BGA	6.30	5.15	4.62
74AVCB164245ZRDR	296-22003-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	54-BGA	2940.00/1,000		
74AVCB324245ZKER	296-17788-1-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	6.60	5.39	4.84
74AVCB324245ZKER	296-17788-2-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	3080.00/1,000		
74AVCBH164245ZQLR	296-25438-1-ND	16-Bit Dual Supply Bus Transcvr.* ***NEW!***	56-BGA	7.05	5.76	5.17
74AVCBH164245ZQLR	296-25438-2-ND	16-Bit Dual Supply Bus Transcvr.* ***NEW!***	56-BGA	3290.00/1,000		
74AVCBH324245ZKER	296-18351-1-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	6.89	5.72	5.20
74AVCBH324245ZKER	296-18351-2-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	3510.00/1,000		
74AVCH16T245ZQLR	296-18352-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	6.30	5.15	4.62
74AVCH16T245ZQLR	296-18352-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	2940.00/1,000		
74AVCH20T245ZQLR	296-18353-1-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-VFBGA	6.75	5.52	4.95
74AVCH20T245ZQLR	296-18353-2-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-VFBGA	3150.00/1,000		
CAVC8T245QRHLRQ1	296-24148-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr*	24-QFN	5.25	4.29	3.85
CAVC8T245QRHLRQ1	296-24148-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr*	24-QFN	2450.00/1,000		
CAVC16T245QDGVRQ1	296-23876-1-ND	16-Bit Dual Supply Bus Transcvr	48-TVSOP	5.25	4.29	3.85
CAVC16T245QDGVRQ1	296-23876-2-ND	16-Bit Dual Supply Bus Transcvr	48-TVSOP	4656.00/2,000		
CAVCH4T245MRSVREP	296-23995-1-ND	Tri-St., 4-Bit Dual Supply Bus Transcvr	16-QFN	3.47	2.68	2.43
CAVCH4T245MRSVREP	296-23995-2-ND	Tri-St., 4-Bit Dual Supply Bus Transcvr	16-QFN	4009.50/3,000		
SN74AVC16244ZQLR	296-25439-1-ND	Tri-St. 16-Bit Buffer/Driver* ***NEW!***	56-BGA	7.02	5.83	5.30
SN74AVC16244ZQLR	296-25439-2-ND	Tri-St. 16-Bit Buffer/Driver* ***NEW!***	56-BGA	3710.00/1,000		
SN74AVC1T45DBVR	296-19094-1-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	.77	.54	.47
SN74AVC1T45DBVR	296-19094-2-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	651.00/3,000		
SN74AVC1T45DCKR	296-17992-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	.77	.54	.47
SN74AVC1T45DCKR	296-17992-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	651.00/3,000		
SN74AVC1T45DRLR	296-21022-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SOT-6	.77	.54	.47
SN74AVC1T45DRLR	296-21022-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SOT-6	868.00/4,000		
SN74AVC1T45YZPR	296-17371-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	.77	.54	.47

*** RoHS Compliant**

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AVC1T45YZPR	296-17371-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	651.00/3,000		
SN74AVC2T45DCTR	296-17232-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	.84	.65	.57
SN74AVC2T45DCTR	296-17232-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	828.00/3,000		
SN74AVC2T45DCUR	296-17993-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	US8	.84	.65	.57
SN74AVC2T45DCUR	296-17993-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	US8	828.00/3,000		
SN74AVC2T45YZPR	296-17858-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	.84	.65	.57
SN74AVC2T45YZPR	296-17858-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	828.00/3,000		
SN74AVC2T245RSWR	296-23684-1-ND	Tri-State Dual-Bit, Dual Supply, Bus Transceiver	10-QFN	.92	.72	.63
SN74AVC2T245RSWR	296-23684-2-ND	Tri-State Dual-Bit, Dual Supply, Bus Transceiver	10-QFN	913.50/3,000		
SN74AVC2T872YFPR	296-24457-1-ND	Voltage Level Shifter for USB* ***NEW!***	12-DSBGA	1.37	1.08	.98
SN74AVC2T872YFPR	296-24457-2-ND	Voltage Level Shifter for USB* ***NEW!***	12-DSBGA	1512.00/3,000		
SN74AVC4T245DGVR	296-18054-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	1.14	.90	.81
SN74AVC4T245DGVR	296-18054-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	840.00/2,000		
SN74AVC4T245DR	296-17930-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	1.14	.90	.81
SN74AVC4T245DR	296-17930-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	1050.00/2,500		
SN74AVC4T245PWR	296-18056-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	1.14	.90	.81
SN74AVC4T245PWR	296-18056-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	840.00/2,000		
SN74AVC4T245RGYR	296-18231-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	1.25	.99	.90
SN74AVC4T245RGYR	296-18231-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	1386.00/3,000		
SN74AVC4T245RSVR	296-24366-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-UQFN	1.25	.99	.90
SN74AVC4T245RSVR	296-24366-2-ND	Tri-State, 4-Bit, Dual Supply Bus Transceiver* ***NEW!***	16-UQFN	1386.00/3,000		
SN74AVC4T774PW	296-23611-5-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	1.34	1.08	.95
SN74AVC4T774PWR	296-24739-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-TSSOP	1.22	.96	.87
SN74AVC4T774PWR	296-24739-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-TSSOP	896.00/2,000		
SN74AVC4T774RGYR	296-24740-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-QFN	1.34	1.06	.96
SN74AVC4T774RGYR	296-24740-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-QFN	1479.00/3,000		
SN74AVC4T774RSVR	296-24741-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-UQFN	1.33	1.05	.95
SN74AVC4T774RSVR	296-24741-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver* ***NEW!***	16-UQFN	1470.00/3,000		
SN74AVC6T622PWR	296-24458-1-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-TSSOP	1.56	1.23	1.11
SN74AVC6T622PWR	296-24458-2-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-TSSOP	1148.00/2,000		
SN74AVC6T622RGYR	296-24459-1-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-QFN	1.71	1.35	1.22
SN74AVC6T622RGYR	296-24459-2-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-QFN	1890.00/3,000		
SN74AVC6T622ZXYR	296-24460-1-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-BGA	1.71	1.35	1.22
SN74AVC6T622ZXYR	296-24460-2-ND	Voltage-Level Audio CODEC Transceiver* ***NEW!***	20-BGA	1575.00/2,500		
SN74AVC8T245DGVR	296-18206-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1.93	1.49	1.35
SN74AVC8T245DGVR	296-18206-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1486.00/2,000		
SN74AVC8T245PWR	296-19100-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1.93	1.49	1.35
SN74AVC8T245PWR	296-19100-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1486.00/2,000		
SN74AVC8T245RHLR	296-17859-1-ND	Tri-St., 8-Bit, Dual Supply Bus Transcvr	24-QFN	1.93	1.49	1.35
SN74AVC8T245RHLR	296-17859-2-ND	Tri-St., 8-Bit, Dual Supply Bus Transcvr	24-QFN	798.00/1,000		
SN74AVC16T245DGGR	296-18197-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	4.50	3.68	3.30
SN74AVC16T245DGGR	296-18197-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	3990.00/2,000		
SN74AVC16T245DGVR	296-19091-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	4.50	3.68	3.30
SN74AVC16T245DGVR	296-19091-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	3990.00/2,000		
SN74AVC16T245GQLR	296-19092-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-BGA	4.50	3.68	3.30
SN74AVC16T245GQLR	296-19092-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-BGA	2100.00/1,000		
SN74AVC16T245ZQLR	296-19093-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	4.80	3.92	3.52
SN74AVC16T245ZQLR	296-19093-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	2240.00/1,000		
SN74AVC20T245DGGR	296-17299-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	4.80	3.92	3.52
SN74AVC20T245DGGR	296-17299-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	4256.00/2,000		
SN74AVC20T245DGVR	296-19095-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	4.80	3.92	3.52
SN74AVC20T245DGVR	296-19095-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	4256.00/2,000		
SN74AVC20T245GQLR	296-19096-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-BGA	4.80	3.92	3.52
SN74AVC20T245GQLR	296-19096-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-BGA	2240.00/1,000		
SN74AVC20T245ZQLR	296-19097-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	5.10	4.17	3.74
SN74AVC20T245ZQLR	296-19097-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	2380.00/1,000		

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AVC24T245GRGR	296-17661-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	6.63	5.50	5.00
SN74AVC24T245GRGR	296-17661-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	3375.00/1,000		
SN74AVC24T245ZRGR	296-17662-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	5.25	4.29	3.85
SN74AVC24T245ZRGR	296-17662-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	2450.00/1,000		
SN74AVC32T245GKER	296-19098-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	6.63	5.50	5.00
SN74AVC32T245GKER	296-19098-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3375.00/1,000		
SN74AVC32T245ZKER	296-19099-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-BGA	5.40	4.41	3.96
SN74AVC32T245ZKER	296-19099-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-BGA	2520.00/1,000		
SN74AVC32T245ZRLR	296-22776-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-BGA	5.40	4.41	3.96
SN74AVC32T245ZRLR	296-22776-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-BGA	5985.00/2,500		
SN74AVC16244DGGR	296-9783-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5.40	4.41	3.96
SN74AVC16244DGGR	296-9783-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	4788.00/2,000		
SN74AVC16244DGVR	296-9784-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5.40	4.41	3.96
SN74AVC16244DGVR	296-9784-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	4788.00/2,000		
SN74AVC16244GQLR	296-9785-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	7.02	5.83	5.30
SN74AVC16244GQLR	296-9785-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3578.00/1,000		
SN74AVC16245DGGR	296-12334-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4.80	3.92	3.52
SN74AVC16245DGGR	296-12334-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4256.00/2,000		
SN74AVC16245DGVR	296-9786-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4.80	3.92	3.52
SN74AVC16245DGVR	296-9786-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4256.00/2,000		
SN74AVC16269DGVR	296-9788-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	6.00	4.90	4.40
SN74AVC16269DGVR	296-9788-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	5320.00/2,000		
SN74AVC16334DGGR	296-9789-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4.80	3.92	3.52
SN74AVC16334DGGR	296-9789-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4256.00/2,000		
SN74AVC16334DGVR	296-9790-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4.80	3.92	3.52
SN74AVC16334DGVR	296-9790-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4256.00/2,000		
SN74AVC16373DGGR	296-9791-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	5.40	4.41	3.96
SN74AVC16373DGGR	296-9791-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	4788.00/2,000		
SN74AVC16373DGVR	296-9792-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TVSOP	5.40	4.41	3.96
SN74AVC16373DGVR	296-9792-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TVSOP	4788.00/2,000		
SN74AVC16373GQLR	296-9793-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	7.02	5.83	5.30
SN74AVC16373GQLR	296-9793-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	3578.00/1,000		
SN74AVC16374DGGR	296-9794-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	4.80	3.92	3.52
SN74AVC16374DGGR	296-9794-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	4256.00/2,000		
SN74AVC16374DGVR	296-9795-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	4.80	3.92	3.52
SN74AVC16374DGVR	296-9795-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	4256.00/2,000		
SN74AVC16374GQLR	296-9796-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	7.20	5.88	5.28
SN74AVC16374GQLR	296-9796-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	3360.00/1,000		
SN74AVC16374ZQLR	296-23246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	7.20	5.88	5.28
SN74AVC16374ZQLR	296-23246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	3360.00/1,000		
SN74AVC16646DGGR	296-9797-1-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	4.50	3.68	3.30
SN74AVC16646DGGR	296-9797-2-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3990.00/2,000		
SN74AVC16646DGVR	296-9798-1-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TVSOP	4.50	3.68	3.30
SN74AVC16646DGVR	296-9798-2-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TVSOP	3990.00/2,000		
SN74AVC16722DGGR	296-9799-1-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	5.70	4.66	4.18
SN74AVC16722DGGR	296-9799-2-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	5054.00/2,000		
SN74AVC16827DGGR	296-9800-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	4.50	3.68	3.30
SN74AVC16827DGGR	296-9800-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3990.00/2,000		
SN74AVC16827DGVR	296-9801-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	4.50	3.68	3.30
SN74AVC16827DGVR	296-9801-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3990.00/2,000		
SN74AVC16834DGGR	296-9802-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3.30	2.70	2.42
SN74AVC16834DGGR	296-9802-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2926.00/2,000		
SN74AVC16834DGVR	296-9803-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3.30	2.70	2.42
SN74AVC16834DGVR	296-9803-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2926.00/2,000		
SN74AVC16835DGGR	296-9804-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3.30	2.70	2.42
SN74AVC16835DGGR	296-9804-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2926.00/2,000		
SN74AVC16835DGVR	296-9805-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3.30	2.70	2.42
SN74AVC16835DGVR	296-9805-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2926.00/2,000		
SN74AVCA406DGGR	296-18296-1-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-TSSOP	2.80	2.16	1.96
SN74AVCA406DGGR	296-18296-2-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-TSSOP	2160.00/2,000		
SN74AVCA406EZQSR	296-24742-1-ND	MMC, SD Card, Voltage Translation Transceiver* ***NEW!***	24-BGA	2.63	2.03	1.84
SN74AVCA406EZQSR	296-24742-2-ND	MMC, SD Card, Voltage Translation Transceiver* ***NEW!***	24-BGA	2531.25/2,500		
SN74AVCA406EZXYR	296-24743-1-ND	MMC, SD Card, Voltage Translation Transceiver* ***NEW!***	20-BGA	2.63	2.03	1.84
SN74AVCA406EZXYR	296-24743-2-ND	MMC, SD Card, Voltage Translation Transceiver* ***NEW!***	20-BGA	2531.25/2,500		
SN74AVCA406GQCR	296-17558-1-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-BGA	2.80	2.16	1.96
SN74AVCA406GQCR	296-17558-2-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-BGA	2700.00/2,500		
SN74AVCA406LZQSR	296-19595-1-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	24-BGA	2.45	1.89	1.72
SN74AVCA406LZQSR	296-19595-2-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	24-BGA	2362.50/2,500		
SN74AVCH4T245RSVR	296-24744-1-ND	Tri-State, 4-Bit, Dual Supply Bus Transceiver* ***NEW!***	16-UQFN	1.25	.99	.90
SN74AVCH4T245RSVR	296-24744-2-ND	Tri-State, 4-Bit, Dual Supply Bus Transceiver* ***NEW!***	16-UQFN	1386.00/3,000		

** RoHS Compliant* — ***★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★*** — *(Continued)*

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AVCA406LZXYR	296-21023-1-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	20-BGA	2.45	1.89	1.72
SN74AVCA406LZXYR	296-21023-2-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	20-BGA	2362.50/2,500		
SN74AVCA406ZQCR	296-17829-1-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-BGA	2.80	2.16	1.96
SN74AVCA406ZQCR	296-17829-2-ND	MMC, SD Card, Memory Stick Voltage Translation Transceiver	48-BGA	2700.00/2,500		
SN74AVCA164245GR	296-14450-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	4.50	3.68	3.30
SN74AVCA164245GR	296-14450-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3990.00/2,000		
SN74AVCA164245VR	296-15446-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	4.50	3.68	3.30
SN74AVCA164245VR	296-15446-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	3990.00/2,000		
SN74AVCAH164245GR	296-14754-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4.50	3.68	3.30
SN74AVCAH164245GR	296-14754-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3990.00/2,000		
SN74AVCAH164245KR	296-15447-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	4.50	3.68	3.30
SN74AVCAH164245KR	296-15447-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2100.00/1,000		
SN74AVCAH164245VR	296-14063-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4.50	3.68	3.30
SN74AVCAH164245VR	296-14063-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3990.00/2,000		
SN74AVCB164245GR	296-15448-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TSSOP	4.20	3.43	3.08
SN74AVCB164245GR	296-15448-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TSSOP	3724.00/2,000		
SN74AVCB164245KR	296-15449-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	56-BGA	6.30	5.15	4.62
SN74AVCB164245KR	296-15449-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	56-BGA	2940.00/1,000		
SN74AVCB164245VR	296-15550-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TVSOP	4.20	3.43	3.08
SN74AVCB164245VR	296-15550-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TVSOP	3724.00/2,000		
SN74AVCB324245KR	296-19101-1-ND	Tri-State 32-Bit Dual Supply Bus Xcvr.	96-LFBGA	7.29	6.05	5.50
SN74AVCB324245KR	296-19101-2-ND	Tri-State 32-Bit Dual Supply Bus Xcvr.	96-LFBGA	3712.50/1,000		
SN74AVCBH164245GR	296-14002-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TSSOP	4.80	3.92	3.52
SN74AVCBH164245GR	296-14002-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TSSOP	4256.00/2,000		
SN74AVCBH164245KR	296-15551-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	56-BGA	7.05	5.76	5.17
SN74AVCBH164245KR	296-15551-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	56-BGA	3290.00/1,000		
SN74AVCBH164245VR	296-15552-1-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TVSOP	4.80	3.92	3.52
SN74AVCBH164245VR	296-15552-2-ND	Tri-State 16-Bit Dual Supply Bus Xcvr.	48-TVSOP	4256.00/2,000		
SN74AVCBH324245KR	296-17352-1-ND	Tri-State 32-Bit Dual Supply Bus Xcvr.	96-LFBGA	6.89	5.72	5.20
SN74AVCBH324245KR	296-17352-2-ND	Tri-State 32-Bit Dual Supply Bus Xcvr.	96-LFBGA	3510.00/1,000		
SN74AVCH1T45DBVR	296-19104-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-23-6	.77	.54	.47
SN74AVCH1T45DBVR	296-19104-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-23-6	651.00/3,000		
SN74AVCH1T45DCKR	296-19105-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	.77	.54	.47
SN74AVCH1T45DCKR	296-19105-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	651.00/3,000		
SN74AVCH1T45YZPR	296-17372-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	.66	.51	.45
SN74AVCH1T45YZPR	296-17372-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	652.50/3,000		
SN74AVCH2T45DCTR	296-19108-1-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	SM8	.97	.75	.66
SN74AVCH2T45DCTR	296-19108-2-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	SM8	957.00/3,000		
SN74AVCH2T45DCUR	296-19109-1-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	US8	.88	.68	.60
SN74AVCH2T45DCUR	296-19109-2-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	US8	870.00/3,000		
SN74AVCH2T45YZPR	296-21024-1-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	8-DSBGA	.97	.75	.66
SN74AVCH2T45YZPR	296-21024-2-ND	Tri-St. Dual-Bit Dual Supply Bus Xcvr.	8-DSBGA	957.00/3,000		
SN74AVCH4T245DGVR	296-18055-1-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-TVSOP	1.14	.90	.81
SN74AVCH4T245DGVR	296-18055-2-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-TVSOP	840.00/2,000		
SN74AVCH4T245DR	296-18032-1-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-SOIC	1.14	.90	.81
SN74AVCH4T245DR	296-18032-2-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-SOIC	1050.00/2,500		
SN74AVCH4T245PWR	296-18057-1-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-TSSOP	1.14	.90	.81
SN74AVCH4T245PWR	296-18057-2-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-TSSOP	840.00/2,000		
SN74AVCH4T245RGYR	296-18262-1-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-VQFN	1.25	.99	.90
SN74AVCH4T245RGYR	296-18262-2-ND	Tri-St. 4-Bit, Dual Supply Bus Transcvr.	16-VQFN	1386.00/3,000		
SN74AVCH8T245DGV	296-17932-ND	Tri-St. 8-Bit, Dual Supply Bus Transcvr.	24-TVSOP	1.55	1.25	1.13
SN74AVCH8T245PWR	296-19112-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr.	24-TSSOP	1.75	1.35	1.23
SN74AVCH8T245PWR	296-19112-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr.	24-TSSOP	1350.00/2,000		
SN74AVCH8T245RHLR	296-22015-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr.	24-QFN	1.75	1.35	1.23
SN74AVCH8T245RHLR	296-22015-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr.	24-QFN	725.00/1,000		
SN74AVCH16T245GQLR	296-19102-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr.	56-BGA	6.30	5.15	4.62
SN74AVCH16T245GQLR	296-19102-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr.	56-BGA	2940.00/1,000		
SN74AVCH16T245GR	296-18283-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	4.50	3.68	3.30
SN74AVCH16T245GR	296-18283-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3990.00/2,000		
SN74AVCH16T245VR	296-19103-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	4.50	3.68	3.30
SN74AVCH16T245VR	296-19103-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	3990.00/2,000		
SN74AVCH20T245GR	296-17819-1-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-TSSOP	4.80	3.92	3.52
SN74AVCH20T245GR	296-17819-2-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-TSSOP	4256.00/2,000		
SN74AVCH20T245KR	296-19106-1-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-BGA	4.80	3.92	3.52
SN74AVCH20T245KR	296-19106-2-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-BGA	2240.00/1,000		
SN74AVCH20T245VR	296-19107-1-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-TVSOP	4.80	3.92	3.52
SN74AVCH20T245VR	296-19107-2-ND	Tri-St. 20-Bit Dual Supply Bus Transcvr	56-TVSOP	4256.00/2,000		
SN74AVCH24T245GRGR	296-17663-1-ND	Tri-St. 24-Bit Dual Supply Bus Transcvr	83-BGA	6.89	5.72	5.20
SN74AVCH24T245GRGR	296-17663-2-ND	Tri-St. 24-Bit Dual Supply Bus Transcvr	83-BGA	3510.00/1,000		
SN74AVCH24T245ZRGR	296-17664-1-ND	Tri-St. 24-Bit Dual Supply Bus Transcvr	83-BGA	5.25	4.29	3.85
SN74AVCH24T245ZRGR	296-17664-2-ND	Tri-St. 24-Bit Dual Supply Bus Transcvr	83-BGA	2450.00/1,000		
SN74AVCH32T245KR	296-19110-1-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-LFBGA	6.89	5.72	5.20
SN74AVCH32T245KR	296-19110-2-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-LFBGA	3510.00/1,000		
SN74AVCH32T245ZKER	296-19111-1-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	5.40	4.41	3.96
SN74AVCH32T245ZKER	296-19111-2-ND	Tri-St. 32-Bit Dual Supply Bus Transcvr	96-BGA	2520.00/1,000		
BCT Family						
SN64BCT125AD	296-9690-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	3.22	2.59	2.36
SN64BCT757DW	296-9692-5-ND	Octal Buffer/Driver	20-SOIC	6.88	5.64	5.09
SN64BCT25244NT	296-9691-5-ND	Tri-State Octal Bus Buffer/Driver	24-Dip	7.13	5.85	5.28
SN74BCT245DWR	296-1154-1-ND	Octal Bus Transceiver	20-SOIC	4.80	3.92	3.52
SN74BCT245DWR	296-1154-2-ND	Octal Bus Transceiver	20-SOIC	4256.00/2,000		
SN74BCT374NSR	296-13177-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	5.25	4.29	3.85
SN74BCT374NSR	296-13177-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	4656.00/2,000		
SN74BCT543DW	296-12335-5-ND	Tri-State Octal Register Transceiver	24-SOIC	12.87	10.83	9.95
SN74BCT623NSR	296-13178-1-ND	Tri-State Octal Bus Transceiver	20-SOP	5.55	4.54	4.07
SN74BCT623NSR	296-13178-2-ND	Tri-State Octal Bus Transceiver	20-SOP	4922.00/2,000		
SN74BCT640NSR	296-13179-1-ND	Tri-State Octal Bus Transceiver	20-SOP	5.55	4.54	4.07
SN74BCT640NSR	296-13179-2-ND	Tri-State Octal Bus Transceiver	20-SOP	4922.00/2,000		
SN74BCT652DWR	296-1155-1-ND	Octal Bus Transceiver	24-SOIC	11.13	9.24	8.40
SN74BCT652DWR	296-1155-2-ND	Octal Bus Transceiver	24-SOIC	10920.00/2,000		
SN74BCT760MDWREP	296-22294-1-ND	Octal Buffer/Driver	20-SOIC	11.55	9.79	9.04
SN74BCT760MDWREP	296-22294-2-ND	Octal Buffer/Driver	20-SOIC	12801.00/2,000		
SN74BCT2414DW	296-13176-5-ND	Memory Decoder with On-Chip Supply Voltage Monitor	20-SOIC	5.74	4.62	4.21
Bus Switch Family (CBT)						
74CBTLV16211CGRDR	296-18211-1-ND	Low Voltage 24-Bit FET Bus Switch	54-BGA	4.05	3.31	2.97
74CBTLV16211CGRDR	296-18211-2-ND	Low Voltage 24-Bit FET Bus Switch	54-BGA	1890.00/1,000		
74CBTLV16211CZRDR	296-20802-1-ND	Low Voltage 24-Bit FET Bus Switch	103-BGA	3.15	2.43	2.21
74CBTLV16211CZRDR	296-20802-2-ND	Low Voltage 24-Bit FET Bus Switch	103-BGA	1305.00/1,000		
CCBTLV3257MPWREP	296-23728-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	2.31	1.79	2.31
CCBTLV3257MPWREP	296-23728-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1782.00/2,000		
CCBTLV3861IPWRG4Q1	296-23462-1-ND	Low Volt. 10-Bit FET Bus Switch	24-TSSOP	.98	.78	.70
CCBTLV3861IPWRG4Q1	296-23462-2-ND	Low Volt. 10-Bit FET Bus Switch	24-TSSOP	722.40/2,000		
SN74CB3Q3125DBQR	296-19123-1-ND	Quad FET Bus Switch	16-QSOP	1.25	.99	.90
SN74CB3Q3125DBQR	296-19123-2-ND	Quad FET Bus Switch	16-QSOP	1155.00/2,500		
SN74CB3Q3125DGVR	296-19124-1-ND	Quad FET Bus Switch	14-TVSOP	1.25	.99	.90
SN74CB3Q3125DGVR	296-19124-2-ND	Quad FET Bus Switch	14-TVSOP	924.00/2,000		
SN74CB3Q3125PWR	296-16804-1-ND	Quad FET Bus Switch	14-TSSOP	1.25	.99	.90
SN74CB3Q3125PWR	296-16804-2-ND	Quad FET Bus Switch	14-TSSOP	924.00/2,000		
SN74CB3Q3244DBQR	296-19125-1-ND	8-Bit FET Bus Switch	20-QSOP	1.17	.93	.84
SN74CB3Q3244DBQR	296-19125-2-ND	8-Bit FET Bus Switch	20-QSOP	1077.50/2,500		
SN74CB3Q3244DGVR	296-19126-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.06	.84	.76
SN74CB3Q3244DGVR	296-19126-2-ND	8-Bit FET Bus Switch	20-TVSOP	784.00/2,000		
SN74CB3Q3244GQNR	296-17033-1-ND	8-Bit FET Bus Switch	20-BGA	1.60	1.26	1.14
SN74CB3Q3244GQNR	296-17033-2-ND	8-Bit FET Bus Switch	20-BGA	630.00/1,000		
SN74CB3Q3244PWR	296-17824-1-ND	8-Bit FET Bus Switch	20-TSSOP	1.06	.84	.76
SN74CB3Q3244PWR	296-17824-2-ND	8-Bit FET Bus Switch	20-TSSOP	784.00/2,000		
SN74CB3Q3244RGYR	296-19127-1-ND	8-Bit FET Bus Switch	20-VQFN	1.17	.93	.84
SN74CB3Q3244RGYR	296-19127-2-ND	8-Bit FET Bus Switch	20-VQFN	1293.00/3,000		
SN74CB3Q3244ZQNR	296-17034-1-ND	8-Bit FET Bus Switch	20-BGA	1.60	1.26	1.14
SN74CB3Q3244ZQNR	296-17034-2-ND	8-Bit FET Bus Switch	20-BGA	630.00/1,000		
SN74CB3Q3245DBQR	296-19128-1-ND	8-Bit FET Bus Switch	20-QSOP	1.17	.93	.84
SN74CB3Q3245DBQR	296-19128-2-ND	8-Bit FET Bus Switch	20-QSOP	1077.50/2,500		
SN74CB3Q3245DGVR	296-19129-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.06	.84	.76
SN74CB3Q3245DGVR	296-19129-2-ND	8-Bit FET Bus Switch	20-TVSOP	784.00/2,000		
SN74CB3Q3245GQNR	296-23249-1-ND	8-Bit FET Bus Switch	20-BGA	1.60	1.26	1.14
SN74CB3Q3245GQNR	296-23249-2-ND	8-Bit FET Bus Switch	20-BGA	630.00/1,000		
SN74CB3Q3245PWR	296-19130-1-ND	8-Bit FET Bus Switch	20-TSSOP	1.06	.84	.76
SN74CB3Q3245PWR	296-19130-2-ND	8-Bit FET Bus Switch	20-TSSOP	784.00/2,000		
SN74CB3Q3245RGYR	296-19131-1-ND	8-Bit FET Bus Switch	20-VQFN	1.17	.93	.84
SN74CB3Q3245RGYR	296-19131-2-ND	8-Bit FET Bus Switch	20-VQFN	1293.00/3,000		
SN74CB3Q3251DBQR	296-19132-1-ND	1-of-8 FET Mux/Demux	16-QSOP	1.17	.93	.84
SN74CB3Q3251DBQR	296-19132-2-ND	1-of-8 FET Mux/Demux	16-QSOP	1077.50/2,500		
SN74CB3Q3251DGVR	296-19133-1-ND	1-of-8 FET Mux/Demux	16-TVSOP	1.06	.84	.76
SN74CB3Q3251DGVR	296-19133-2-ND	1-of-8 FET Mux/Demux	16-TVSOP	784.00/2,000		
SN74CB3Q3251IPWR	296-18204-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	1.06	.84	.76
SN74CB3Q3251IPWR	296-18204-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	784.00/2,000		
SN74CB3Q3251RGYR	296-24669-1-ND	1-of-8 FET Mux/Demux* ***NEW!***	16-QFN	1.17	.93	.84
SN74CB3Q3251RGYR	296-24669-2-ND	1-of-8 FET Mux/Demux* ***NEW!***	16-QFN	1293.00/3,000		
SN74CB3Q3253DBQR	296-17283-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	1.17	.93	.84
SN74CB3Q3253DBQR	296-17283-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	1077.50/2,500		
SN74CB3Q3253DGVR	296-19134-1-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	1.06	.84	.76
SN74CB3Q3253DGVR	296-19134-2-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	784.00/2,000		
SN74CB3Q3253PW	296-26441-5-ND	Dual 1-of-4 FET Mux/Demux* ***NEW!***	16-TSSOP	1.18	.95	.83
SN74CB3Q3253PWR	296-19135-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	1.06	.84	.76
SN74CB3Q3253PWR	296-19135-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	784.00/2,000		
SN74CB3Q3253RGYR	296-19136-1-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	1.17	.93	.84
SN74CB3Q3253RGYR	296-19136-2-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	1293.00/3,000		
SN74CB3Q3257DBQR	296-17511-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	1.17	.93	.84
SN74CB3Q3257DBQR	296-17511-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	1077.50/2,500		
SN74CB3Q3257DGVR	296-19137-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.06	.84	.76
SN74CB3Q3257DGVR	296-19137-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	784.00/2,000		
SN74CB3Q3257PWR	296-19138-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1.06	.84	.76
SN74CB3Q3257PWR	296-19138-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	784.00/2,000		
SN74CB3Q3257RGYR	296-16834-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	1.17	.93	.84
SN74CB3Q3257RGYR	296-16834-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	1293.00/3,000		
SN74CB3Q3305DCUR	296-23250-1-ND	Dual FET Bus Switch	US8	.95	.75	.68
SN74CB3Q3305DCUR	296-23250-2-ND	Dual FET Bus Switch	US8	1050.00/3,000		
SN74CB3Q3305PWR	296-16809-1-ND	Dual FET Bus Switch	8-TSSOP	.95	.75	.68
SN74CB3Q3305PWR	296-16809-2-ND	Dual FET Bus Switch	8-TSSOP	700.00/2,000		
SN74CB3Q3306ADCUR	296-23251-1-ND	Dual Low Voltage FET Bus Switch	US8	.95	.75	.68
SN74CB3Q3306ADCUR	296-23251-2-ND	Dual Low Voltage FET Bus Switch	US8	1050.00/3,000		
SN74CB3Q3306APWR	296-15102-1-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	.95	.75	.68
SN74CB3Q3306APWR	296-15102-2-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	700.00/2,000		
SN74CB3Q3345DBQR	296-19139-1-ND	8-Bit Low Voltage FET Bus Switch	20-QSOP	1.59	1.26	1.13
SN74CB3Q3345DBQR	296-19139-2-ND	8-Bit Low Voltage FET Bus Switch	20-QSOP	1462.50/2,500		
SN74CB3Q3345DGVR	296-19140-1-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1.44	1.14	1.03
SN74CB3Q3345DGVR	296-19140-2-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1064.00/2,000		
SN74CB3Q3345PWR	296-19141-1-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1.44	1.14	1.03
SN74CB3Q3345PWR	296-19141-2-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1064.00/2,000		
SN74CB3Q3345RGYR	296-19142-1-ND	8-Bit Low Voltage FET Bus Switch	20-VQFN	1.59	1.26	1.13
SN74CB3Q3345RGYR	296-19142-2-ND	8-Bit Low Voltage FET Bus Switch	20-VQFN	1755.00/3,000		
SN74CB3Q3384ADBQR	296-17353-1-ND	10-Bit FET Bus Switch	24-QSOP	1.59	1.26	1.13
SN74CB3Q3384ADBQR	296-17353-2-ND	10-Bit FET Bus Switch	24-QSOP	1462.50/2,500		
SN74CB3Q3384ADGVR	296-19143-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.44	1.14	1.03
SN74CB3Q3384ADGVR	296-19143-2-ND	10-Bit FET Bus Switch	24-TVSOP	1064.00/2,000		
SN74CB3Q3384APWR	296-19144-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.44	1.14	1.03
SN74CB3Q3384APWR	296-19144-2-ND	10-Bit FET Bus Switch	24-TSSOP	1064.00/2,000		
SN74CB3Q6800DBQR	296-19145-1-ND	10-Bit FET Bus Switch	24-QSOP	.97	.75	.66
SN74CB3Q6800DBQR	296-19145-2-ND	10-Bit FET Bus Switch	24-QSOP	797.50/2,500		
SN74CB3Q6800DGVR	296-19146-1-ND	10-Bit FET Bus Switch	24-TVSOP	.88	.68	.60
SN74CB3Q6800DGVR	296-19146-2-ND	10-Bit FET Bus Switch	24-TVSOP	580.00/2,000		
SN74CB3Q6800PWR	296-17084-1-ND	10-Bit FET Bus Switch	24-TSSOP	.88	.68	.60
SN74CB3Q6800PWR	296-17084-2-ND	10-Bit FET Bus Switch	24-TSSOP	580.00/2,000		
SN74CB3Q16210DGVR	296-19113-1-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	2.80	2.16	1.96
SN74CB3Q16210DGVR	296-19113-2-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	2160.00/2,000		
SN74CB3Q16210DLR	296-19114-1-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	2.98	2.30	2.09
SN74CB3Q16210DLR	296-19114-2-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	1233.00/1,000		
SN74CB3Q16211DGVR	296-17628-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	2.80	2.16	1.96
SN74CB3Q16211DGVR	296-17628-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	2160.00/2,000		
SN74CB3Q16211DGGR	296-17629-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	2.80	2.16	1.96
SN74CB3Q16211DGGR	296-17629-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	2160.00/2,000		
SN74CB3Q16211DLR	296-17786-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	2.80	2.16	1.96

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

DIGITAL LOGIC

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CB3Q16211DLR	296-17786-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	1160.00/1,000		
SN74CB3Q16211GQLR	296-23247-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-BGA	3.15	2.43	2.21
SN74CB3Q16211GQLR	296-23247-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-BGA	1305.00/1,000		
SN74CB3Q16211ZQLR	296-22016-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-VFBGA	3.15	2.43	2.21
SN74CB3Q16211ZQLR	296-22016-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-VFBGA	1305.00/1,000		
SN74CB3Q16244DGGR	296-17593-1-ND	16-Bit FET Bus Switch	48-TSSOP	3.33	2.57	2.33
SN74CB3Q16244DGGR	296-17593-2-ND	16-Bit FET Bus Switch	48-TSSOP	2566.00/2,000		
SN74CB3Q16244DGVR	296-19115-1-ND	16-Bit FET Bus Switch	48-TVSOP	3.33	2.57	2.33
SN74CB3Q16244DGVR	296-19115-2-ND	16-Bit FET Bus Switch	48-TVSOP	2565.00/2,000		
SN74CB3Q16244DLR	296-19116-1-ND	16-Bit FET Bus Switch	48-SSOP	3.15	2.58	2.31
SN74CB3Q16244DLR	296-19116-2-ND	16-Bit FET Bus Switch	48-SSOP	1470.00/1,000		
SN74CB3Q16245DGGR	296-19117-1-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	3.33	2.57	2.33
SN74CB3Q16245DGGR	296-19117-2-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	2565.00/2,000		
SN74CB3Q16245DGVR	296-19118-1-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	3.33	2.57	2.33
SN74CB3Q16245DGVR	296-19118-2-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	2565.00/2,000		
SN74CB3Q16245DLR	296-19119-1-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	3.15	2.58	2.31
SN74CB3Q16245DLR	296-19119-2-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	1470.00/1,000		
SN74CB3Q16811DGGR	296-19120-1-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	3.24	2.65	2.38
SN74CB3Q16811DGGR	296-19120-2-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	2872.80/2,000		
SN74CB3Q16811DGVR	296-19121-1-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	3.24	2.65	2.38
SN74CB3Q16811DGVR	296-19121-2-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	2872.80/2,000		
SN74CB3Q16811DLR	296-19122-1-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	3.24	2.65	2.38
SN74CB3Q16811DLR	296-19122-2-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	1512.00/1,000		
SN74CB3Q32245GKER	296-17665-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	9.18	7.50	6.74
SN74CB3Q32245GKER	296-17665-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	4131.00/1,000		
SN74CB3Q32245ZKER	296-17666-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-BGA	5.10	4.17	3.74
SN74CB3Q32245ZKER	296-17666-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-BGA	2380.00/1,000		
SN74CB3T1G125DBVR	296-19150-1-ND	Single Low Voltage FET Bus Switch	SOT-23-5	1.10	.87	.79
SN74CB3T1G125DBVR	296-19150-2-ND	Single Low Voltage FET Bus Switch	SOT-23-5	1218.00/3,000		
SN74CB3T1G125DCKR	296-15835-1-ND	Single Low Voltage FET Bus Switch	SC70	1.10	.87	.79
SN74CB3T1G125DCKR	296-15835-2-ND	Single Low Voltage FET Bus Switch	SC70	1218.00/3,000		
SN74CB3T3125DGVR	296-19151-1-ND	Quad FET Bus Switch	14-TVSOP	1.93	1.49	1.35
SN74CB3T3125DGVR	296-19151-2-ND	Quad FET Bus Switch	14-TVSOP	1486.00/2,000		
SN74CB3T3125PWR	296-17426-1-ND	Quad FET Bus Switch	14-TSSOP	1.93	1.49	1.35
SN74CB3T3125PWR	296-17426-2-ND	Quad FET Bus Switch	14-TSSOP	1486.00/2,000		
SN74CB3T3125RGYR	296-21025-1-ND	Quad FET Bus Switch	14-QFN	2.28	1.76	1.60
SN74CB3T3125RGYR	296-21025-2-ND	Quad FET Bus Switch	14-QFN	2634.00/3,000		
SN74CB3T3245DBQR	296-17823-1-ND	8-Bit FET Bus Switch	20-QSOP	2.28	1.76	1.60
SN74CB3T3245DBQR	296-17823-2-ND	8-Bit FET Bus Switch	20-QSOP	2195.00/2,500		
SN74CB3T3245DGVR	296-19152-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.93	1.49	1.35
SN74CB3T3245DGVR	296-19152-2-ND	8-Bit FET Bus Switch	20-TVSOP	1486.00/2,000		
SN74CB3T3245DWR	296-18214-1-ND	8-Bit FET Bus Switch	20-SOIC	1.93	1.49	1.35
SN74CB3T3245DWR	296-18214-2-ND	8-Bit FET Bus Switch	20-SOIC	1486.00/2,000		
SN74CB3T3245PWR	296-18196-1-ND	8-Bit FET Bus Switch	20-TSSOP	1.93	1.49	1.35
SN74CB3T3245PWR	296-18196-2-ND	8-Bit FET Bus Switch	20-TSSOP	1486.00/2,000		
SN74CB3T3253DBQR	296-19153-1-ND	Dual 1-of-4 Mux/Demux	16-QSOP	1.93	1.49	1.35
SN74CB3T3253DBQR	296-19153-2-ND	Dual 1-of-4 Mux/Demux	16-QSOP	1857.50/2,500		
SN74CB3T3253DGVR	296-19154-1-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1.75	1.35	1.23
SN74CB3T3253DGVR	296-19154-2-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1350.00/2,000		
SN74CB3T3253DR	296-19155-1-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1.75	1.35	1.23
SN74CB3T3253DR	296-19155-2-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1687.50/2,500		
SN74CB3T3253PWR	296-19156-1-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1.75	1.35	1.23
SN74CB3T3253PWR	296-19156-2-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1350.00/2,000		
SN74CB3T3257DGVR	296-19157-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.93	1.49	1.35
SN74CB3T3257DGVR	296-19157-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1486.00/2,000		
SN74CB3T3257PW	296-26445-5-ND	4-Bit, 1-of-2 FET Mux/Demux* ***NEW!***	16-TSSOP	2.17	1.75	1.58
SN74CB3T3257PWR	296-17850-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1.93	1.49	1.35
SN74CB3T3257PWR	296-17850-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1486.00/2,000		
SN74CB3T3306DCTR	296-15553-1-ND	3.3V Low Voltage Dual FET Bus Switch	SM8	1.75	1.35	1.23
SN74CB3T3306DCTR	296-15553-2-ND	3.3V Low Voltage Dual FET Bus Switch	SM8	2025.00/3,000		
SN74CB3T3306DCUR	296-15554-1-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	1.75	1.35	1.23
SN74CB3T3306DCUR	296-15554-2-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	2025.00/3,000		
SN74CB3T3383DBQR	296-19158-1-ND	10-Bit FET Bus Exchange Switch	24-QSOP	1.76	1.39	1.25
SN74CB3T3383DBQR	296-19158-2-ND	10-Bit FET Bus Exchange Switch	24-QSOP	1617.50/2,500		
SN74CB3T3383DGVR	296-19159-1-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1.60	1.26	1.14
SN74CB3T3383DGVR	296-19159-2-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1176.00/2,000		
SN74CB3T3383DWR	296-19160-1-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1.60	1.26	1.14
SN74CB3T3383DWR	296-19160-2-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1176.00/2,000		
SN74CB3T3383PWR	296-19161-1-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1.60	1.26	1.14
SN74CB3T3383PWR	296-19161-2-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1176.00/2,000		
SN74CB3T3384DBQR	296-17842-1-ND	10-Bit FET Bus Switch	24-QSOP	1.93	1.49	1.35
SN74CB3T3384DBQR	296-17842-2-ND	10-Bit FET Bus Switch	24-QSOP	1857.50/2,500		
SN74CB3T3384DWR	296-19162-1-ND	10-Bit FET Bus Switch	24-SOIC	1.75	1.35	1.23
SN74CB3T3384DWR	296-19162-2-ND	10-Bit FET Bus Switch	24-SOIC	1350.00/2,000		
SN74CB3T3384PWR	296-19163-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.75	1.35	1.23
SN74CB3T3384PWR	296-19163-2-ND	10-Bit FET Bus Switch	24-TSSOP	1350.00/2,000		
SN74CB3T16210DGGR	296-19147-1-ND	20-Bit FET Bus Switch	48-TSSOP	3.30	2.70	2.42
SN74CB3T16210DGGR	296-19147-2-ND	20-Bit FET Bus Switch	48-TSSOP	2926.00/2,000		
SN74CB3T16210DGVR	296-19148-1-ND	20-Bit FET Bus Switch	48-TVSOP	3.30	2.70	2.42
SN74CB3T16210DGVR	296-19148-2-ND	20-Bit FET Bus Switch	48-TVSOP	2926.00/2,000		
SN74CB3T16211DGGR	296-16978-1-ND	24-Bit FET Bus Switch	56-TSSOP	3.33	2.57	2.33
SN74CB3T16211DGGR	296-16978-2-ND	24-Bit FET Bus Switch	56-TSSOP	2565.00/2,000		
SN74CB3T16211DGVR	296-17832-1-ND	24-Bit FET Bus Switch	56-TVSOP	3.33	2.57	2.33
SN74CB3T16211DGVR	296-17832-2-ND	24-Bit FET Bus Switch	56-TVSOP	2566.00/2,000		
SN74CB3T16211DLR	296-19149-1-ND	24-Bit FET Bus Switch	56-SSOP	3.15	2.58	2.31
SN74CB3T16211DLR	296-19149-2-ND	24-Bit FET Bus Switch	56-SSOP	1470.00/1,000		
SN74CB3T16211ZQLR	296-23252-1-ND	24-Bit FET Bus Switch	56-VFBGA	4.35	3.56	3.19
SN74CB3T16211ZQLR	296-23252-2-ND	24-Bit FET Bus Switch	56-VFBGA	2030.00/1,000		
SN74CB3T16212DGGR	296-17667-1-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	3.33	2.57	2.33
SN74CB3T16212DGGR	296-17667-2-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	2565.00/2,000		
SN74CB3T16212DGVR	296-17668-1-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	3.33	2.57	2.33
SN74CB3T16212DGVR	296-17668-2-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	2566.00/2,000		
SN74CB3T16212ZQLR	296-17669-1-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	4.35	3.56	3.19
SN74CB3T16212ZQLR	296-17669-2-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	2030.00/1,000		

DIGITAL LOGIC

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT1G125DBVR	296-1164-1-ND	Single FET Bus Switch	SOT-23-5	.51	.34	.28
SN74CBT1G125DBVR	296-1164-2-ND	Single FET Bus Switch	SOT-23-5	348.00/3,000		
SN74CBT1G125DCKR	296-6410-1-ND	Single FET Bus Switch	SC70-5	.51	.34	.28
SN74CBT1G125DCKR	296-6410-2-ND	Single FET Bus Switch	SC70-5	346.50/3,000		
SN74CBT1G384DBVR	296-6411-1-ND	Single FET Bus Switch	SOT-23-5	.50	.35	.30
SN74CBT1G384DBVR	296-6411-2-ND	Single FET Bus Switch	SOT-23-5	418.50/3,000		
SN74CBT1G384DCKR	296-6412-1-ND	Single FET Bus Switch	SC70-5	.50	.35	.30
SN74CBT1G384DCKR	296-6412-2-ND	Single FET Bus Switch	SC70-5	418.50/3,000		
SN74CBT34X245DBBR	296-13180-1-ND	32-Bit FET Bus Switch	80-TSSOP	3.30	2.70	2.42
SN74CBT34X245DBBR	296-13180-2-ND	32-Bit FET Bus Switch	80-TSSOP	2926.00/2,000		
SN74CBT3125CDBQR	296-19187-1-ND	Quad FET Bus Switch	16-QSOP	.73	.57	.50
SN74CBT3125CDBQR	296-19187-2-ND	Quad FET Bus Switch	16-QSOP	597.50/2,500		
SN74CBT3125CDBR	296-19188-1-ND	Quad FET Bus Switch	14-SSOP	.73	.57	.50
SN74CBT3125CDBR	296-19188-2-ND	Quad FET Bus Switch	14-SSOP	478.00/2,000		
SN74CBT3125CDGVR	296-19189-1-ND	Quad FET Bus Switch	14-TVSOP	.66	.51	.45
SN74CBT3125CDGVR	296-19189-2-ND	Quad FET Bus Switch	14-TVSOP	436.00/2,000		
SN74CBT3125CDR	296-19190-1-ND	Quad FET Bus Switch	14-SOIC	.66	.51	.45
SN74CBT3125CDR	296-19190-2-ND	Quad FET Bus Switch	14-SOIC	545.00/2,500		
SN74CBT3125CPWR	296-19191-1-ND	Quad FET Bus Switch	14-TSSOP	.66	.51	.45
SN74CBT3125CPWR	296-19191-2-ND	Quad FET Bus Switch	14-TSSOP	436.00/2,000		
SN74CBT3125CRGYR	296-19192-1-ND	Quad FET Bus Switch	14-QFN	.73	.57	.50
SN74CBT3125CRGYR	296-19192-2-ND	Quad FET Bus Switch	14-QFN	717.00/3,000		
SN74CBT3125D	296-1165-5-ND	Quad FET Bus Switch	14-SOIC	.67	.53	.46
SN74CBT3125DBQR	296-6413-1-ND	Quad FET Bus Switch	16-QSOP	.68	.53	.47
SN74CBT3125DBQR	296-6413-2-ND	Quad FET Bus Switch	16-QSOP	557.50/2,500		
SN74CBT3125DBR	296-6414-1-ND	Quad FET Bus Switch	14-SSOP	.68	.53	.47
SN74CBT3125DBR	296-6414-2-ND	Quad FET Bus Switch	14-SSOP	446.00/2,000		
SN74CBT3125DGVR	296-6415-1-ND	Quad FET Bus Switch	14-TVSOP	.77	.54	.47
SN74CBT3125DGVR	296-6415-2-ND	Quad FET Bus Switch	14-TVSOP	434.00/2,000		
SN74CBT3125PW	296-26446-5-ND	Quad FET Bus Switch* ***NEW!***	14-TSSOP	.67	.53	.46
SN74CBT3125PWR	296-6416-1-ND	Quad FET Bus Switch	14-TSSOP	.77	.54	.47
SN74CBT3125PWR	296-6416-2-ND	Quad FET Bus Switch	14-TSSOP	434.00/2,000		
SN74CBT3125RGYR	296-13920-1-ND	Quad FET Bus Switch	14-QFN	.68	.53	.47
SN74CBT3125RGYR	296-13920-2-ND	Quad FET Bus Switch	14-QFN	669.00/3,000		
SN74CBT3126D	296-1537-5-ND	Quad FET Bus Switch	14-SOIC	.72	.56	.49
SN74CBT3126DR	296-1537-1-ND	Quad FET Bus Switch	14-SOIC	.66	.51	.45
SN74CBT3126DR	296-1537-2-ND	Quad FET Bus Switch	14-SOIC	545.00/2,500		
SN74CBT3126DBQR	296-6417-1-ND	Quad FET Bus Switch	16-QSOP	.73	.57	.50
SN74CBT3126DBQR	296-6417-2-ND	Quad FET Bus Switch	16-QSOP	597.50/2,500		
SN74CBT3126DBR	296-6418-1-ND	Quad FET Bus Switch	14-SSOP	.73	.57	.50
SN74CBT3126DBR	296-6418-2-ND	Quad FET Bus Switch	14-SSOP	478.00/2,000		
SN74CBT3126DGVR	296-6419-1-ND	Quad FET Bus Switch	14-TVSOP	.66	.51	.45
SN74CBT3126DGVR	296-6419-2-ND	Quad FET Bus Switch	14-TVSOP	436.00/2,000		
SN74CBT3126PWR	296-6420-1-ND	Quad FET Bus Switch	14-TSSOP	.66	.51	.45
SN74CBT3126PWR	296-6420-2-ND	Quad FET Bus Switch	14-TSSOP	436.00/2,000		
SN74CBT3126RGYR	296-13921-1-ND	Quad FET Bus Switch	14-QFN	.73	.57	.50
SN74CBT3126RGYR	296-13921-2-ND	Quad FET Bus Switch	14-QFN	717.00/3,000		
SN74CBT3244CDBQR	296-19193-1-ND	Octal FET Bus Switch	20-QSOP	.77	.54	.47
SN74CBT3244CDBQR	296-19193-2-ND	Octal FET Bus Switch	20-QSOP	542.50/2,500		
SN74CBT3244CDBR	296-19194-1-ND	Octal FET Bus Switch	20-SSOP	.77	.54	.47
SN74CBT3244CDBR	296-19194-2-ND	Octal FET Bus Switch	20-SSOP	434.00/2,000		
SN74CBT3244CDGVR	296-19195-1-ND	Octal FET Bus Switch	20-TVSOP	.68	.53	.47
SN74CBT3244CDGVR	296-19195-2-ND	Octal FET Bus Switch	20-TVSOP	446.60/2,000		
SN74CBT3244CDWR	296-19196-1-ND	Octal FET Bus Switch	20-SOIC	.77	.54	.47
SN74CBT3244CDWR	296-19196-2-ND	Octal FET Bus Switch	20-SOIC	434.00/2,000		
SN74CBT3244CPWR	296-19197-1-ND	Octal FET Bus Switch	20-TSSOP	.77	.54	.47
SN74CBT3244CPWR	296-19197-2-ND	Octal FET Bus Switch	20-TSSOP	434.00/2,000		
SN74CBT3244CRGYR	296-19198-1-ND	Octal FET Bus Switch	20-VQFN	.79	.62	.54
SN74CBT3244CRGYR	296-19198-2-ND	Octal FET Bus Switch	20-VQFN	783.00/3,000		
SN74CBT3244DBR	296-6422-1-ND	Octal FET Bus Switch	20-SSOP	.97	.75	.66
SN74CBT3244DBR	296-6422-2-ND	Octal FET Bus Switch	20-SSOP	638.00/2,000		
SN74CBT3244DGVR	296-6423-1-ND	Octal FET Bus Switch	20-TVSOP	.88	.68	.60
SN74CBT3244DGVR	296-6423-2-ND	Octal FET Bus Switch	20-TVSOP	580.00/2,000		
SN74CBT3244DW	296-1538-5-ND	Octal FET Bus Switch	20-SOIC	.96	.75	.65
SN74CBT3244DWR	296-14796-1-ND	Octal FET Bus Switch	20-SOIC	.88	.68	.60
SN74CBT3244DWR	296-14796-2-ND	Octal FET Bus Switch	20-SOIC	580.00/2,000		
SN74CBT3244GQNR	296-12089-1-ND	Octal FET Bus Switch	20-BGA	1.14	.90	.81
SN74CBT3244GQNR	296-12089-2-ND	Octal FET Bus Switch	20-BGA	450.00/1,000		
SN74CBT3244PW	296-1166-5-ND	Octal FET Bus Switch	20-TSSOP	.96	.75	.65
SN74CBT3244PWR	296-1166-1-ND	Octal FET Bus Switch	20-TSSOP	.88	.68	.60
SN74CBT3244PWR	296-1166-2-ND	Octal FET Bus Switch	20-TSSOP	580.00/2,000		
SN74CBT3244RGYR	296-13922-1-ND	Octal FET Bus Switch	20-VQFN	.97	.75	.66
SN74CBT3244RGYR	296-13922-2-ND	Octal FET Bus Switch	20-VQFN	957.00/3,000		
SN74CBT3245ADBQR	296-6424-1-ND	Octal FET Bus Switch	20-QSOP	1.05	.83	.75
SN74CBT3245ADBQR	296-6424-2-ND	Octal FET Bus Switch	20-QSOP	962.50/2,500		
SN74CBT3245ADBR	296-6425-1-ND	Octal FET Bus Switch	20-SSOP	1.05	.83	.75
SN74CBT3245ADBR	296-6425-2-ND	Octal FET Bus Switch	20-SSOP	770.00/2,000		
SN74CBT3245ADGVR	296-6460-1-ND	Octal FET Bus Switch	20-TVSOP	.95	.75	.68
SN74CBT3245ADGVR	296-6460-2-ND	Octal FET Bus Switch	20-TVSOP	700.00/2,000		
SN74CBT3245ADW	296-6426-5-ND	Octal FET Bus Switch	20-SOIC	1.05	.84	.74
SN74CBT3245ADWR	296-14797-1-ND	Octal FET Bus Switch	20-SOIC	.95	.75	.68
SN74CBT3245ADWR	296-14797-2-ND	Octal FET Bus Switch	20-SOIC	700.00/2,000		
SN74CBT3245AGQNR	296-12090-1-ND	Octal FET Bus Switch	20-BGA	1.43	1.13	1.02
SN74CBT3245AGQNR	296-12090-2-ND	Octal FET Bus Switch	20-BGA	563.00/1,000		
SN74CBT3245APWR	296-6427-1-ND	Octal FET Bus Switch	20-TSSOP	.95	.75	.68
SN74CBT3245APWR	296-6427-2-ND	Octal FET Bus Switch	20-TSSOP	700.00/2,000		
SN74CBT3245ARGYR	296-13923-1-ND	Octal FET Bus Switch	20-VQFN	1.05	.83	.75
SN74CBT3245ARGYR	296-13923-2-ND	Octal FET Bus Switch	20-VQFN	1155.00/3,000		
SN74CBT3245CDBQR	296-19199-1-ND	Octal FET Bus Switch	20-QSOP	.77	.54	.47
SN74CBT3245CDBQR	296-19199-2-ND	Octal FET Bus Switch	20-QSOP	542.50/2,500		
SN74CBT3245CDBR	296-19200-1-ND	Octal FET Bus Switch	20-SSOP	.77	.54	.47
SN74CBT3245CDBR	296-19200-2-ND	Octal FET Bus Switch	20-SSOP	434.00/2,000		
SN74CBT3245CDGVR	296-19201-1-ND	Octal FET Bus Switch	20-TVSOP	.68	.53	.47
SN74CBT3245CDGVR	296-19201-2-ND	Octal FET Bus Switch	20-TVSOP	446.60/2,000		
SN74CBT3245CDWR	296-17282-1-ND	Octal FET Bus Switch	20-SOIC	.77	.54	.47
SN74CBT3245CDWR	296-17282-2-ND	Octal FET Bus Switch	20-SOIC	434.00/2,000		
SN74CBT3245CPWR	296-19202-1-ND	Octal FET Bus Switch	20-TSSOP	.77	.54	.47
SN74CBT3245CPWR	296-19202-2-ND	Octal FET Bus Switch	20-TSSOP	434.00/2,000		
SN74CBT3245CRGYR	296-19203-1-ND	Octal FET Bus Switch	20-VQFN	.79	.62	.54
SN74CBT3245CRGYR	296-19203-2-ND	Octal FET Bus Switch	20-VQFN	783.00/3,000		
SN74CBT3251D	296-6428-5-ND	1-of-8 FET Mux/Demux	16-SOIC	.86	.67	.59

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74CBT3251DBQR	296-6429-1-ND	1-of-8 FET Mux/Demux	16-QSOP	.87	.68	.60
SN74CBT3251DBQR	296-6429-2-ND	1-of-8 FET Mux/Demux	16-QSOP	717.50/2,500		
SN74CBT3251DBR	296-6430-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.87	.68	.60
SN74CBT3251DBR	296-6430-2-ND	1-of-8 FET Mux/Demux	16-SSOP	574.00/2,000		
SN74CBT3251PWR	296-6431-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.79	.62	.54
SN74CBT3251PWR	296-6431-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	522.00/2,000		
SN74CBT3251RGYR	296-13924-1-ND	1-of-8 FET Mux/Demux	16-VQFN	.87	.68	.60
SN74CBT3251RGYR	296-13924-2-ND	1-of-8 FET Mux/Demux	16-VQFN	861.00/3,000		
SN74CBT3253CDBQR	296-19204-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.73	.57	.50
SN74CBT3253CDBQR	296-19204-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	597.50/2,500		
SN74CBT3253CDBR	296-19205-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.73	.57	.50
SN74CBT3253CDBR	296-19205-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	478.00/2,000		
SN74CBT3253CDR	296-19206-1-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.66	.51	.45
SN74CBT3253CDR	296-19206-2-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	545.00/2,500		
SN74CBT3253CPWR	296-19207-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.66	.51	.45
SN74CBT3253CPWR	296-19207-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	436.00/2,000		
SN74CBT3253CRGYR	296-19208-1-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	.73	.57	.50
SN74CBT3253CRGYR	296-19208-2-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	717.00/3,000		
SN74CBT3253D	296-6432-5-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.96	.75	.65
SN74CBT3253DBQR	296-6433-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.97	.75	.66
SN74CBT3253DBQR	296-6433-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	797.50/2,500		
SN74CBT3253DBR	296-6434-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.97	.75	.66
SN74CBT3253DBR	296-6434-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	638.00/2,000		
SN74CBT3253PWR	296-1167-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.88	.68	.60
SN74CBT3253PWR	296-1167-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	580.00/2,000		
SN74CBT3253RGYR	296-13925-1-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	.97	.75	.66
SN74CBT3253RGYR	296-13925-2-ND	Dual 1-of-4 FET Mux/Demux	16-VQFN	957.00/3,000		
SN74CBT3257CDBQR	296-19209-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.73	.57	.50
SN74CBT3257CDBQR	296-19209-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	597.50/2,500		
SN74CBT3257CDBR	296-19210-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.73	.57	.50
SN74CBT3257CDBR	296-19210-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	478.00/2,000		
SN74CBT3257CDR	296-15340-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.66	.51	.45
SN74CBT3257CDR	296-15340-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	545.00/2,500		
SN74CBT3257CPWR	296-19211-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.66	.51	.45
SN74CBT3257CPWR	296-19211-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	436.00/2,000		
SN74CBT3257CRGYR	296-19212-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	.73	.57	.50
SN74CBT3257CRGYR	296-19212-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	717.00/3,000		
SN74CBT3257D	296-1168-5-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.96	.75	.65
SN74CBT3257DR	296-1168-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.88	.68	.60
SN74CBT3257DR	296-1168-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	725.00/2,500		
SN74CBT3257DBQR	296-6435-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.97	.75	.66
SN74CBT3257DBQR	296-6435-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	797.50/2,500		
SN74CBT3257DBR	296-6436-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.97	.75	.66
SN74CBT3257DBR	296-6436-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	638.00/2,000		
SN74CBT3257PWR	296-6437-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.88	.68	.60
SN74CBT3257PWR	296-6437-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	580.00/2,000		
SN74CBT3257RGYR	296-13926-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	.97	.75	.66
SN74CBT3257RGYR	296-13926-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	957.00/3,000		
SN74CBT3305CDR	296-19213-1-ND	Dual FET Bus Switch	8-SOIC	.66	.51	.45
SN74CBT3305CDR	296-19213-2-ND	Dual FET Bus Switch	8-SOIC	545.00/2,500		
SN74CBT3305CPWR	296-19214-1-ND	Dual FET Bus Switch	8-TSSOP	.66	.51	.45
SN74CBT3305CPWR	296-19214-2-ND	Dual FET Bus Switch	8-TSSOP	436.00/2,000		
SN74CBT3306CDR	296-19215-1-ND	Dual FET Bus Switch	8-SOIC	.66	.51	.45
SN74CBT3306CDR	296-19215-2-ND	Dual FET Bus Switch	8-SOIC	545.00/2,500		
SN74CBT3306CPWR	296-16755-1-ND	Dual FET Bus Switch	8-TSSOP	.66	.51	.45
SN74CBT3306CPWR	296-16755-2-ND	Dual FET Bus Switch	8-TSSOP	436.00/2,000		
SN74CBT3306D	296-1540-5-ND	Dual FET Bus Switch	8-SOIC	.67	.53	.46
SN74CBT3306DR	296-1540-1-ND	Dual FET Bus Switch	8-SOIC	.77	.54	.47
SN74CBT3306DR	296-1540-2-ND	Dual FET Bus Switch	8-SOIC	542.50/2,500		
SN74CBT3306PWR	296-6438-1-ND	Dual FET Bus Switch	8-TSSOP	.77	.54	.47
SN74CBT3306PWR	296-6438-2-ND	Dual FET Bus Switch	8-TSSOP	434.00/2,000		
SN74CBT3345CDBQR	296-19216-1-ND	8-Bit FET Bus Switch	20-QSOP	.97	.75	.66
SN74CBT3345CDBQR	296-19216-2-ND	8-Bit FET Bus Switch	20-QSOP	797.50/2,500		
SN74CBT3345CDBR	296-19217-1-ND	8-Bit FET Bus Switch	20-SSOP	.97	.75	.66
SN74CBT3345CDBR	296-19217-2-ND	8-Bit FET Bus Switch	20-SSOP	638.00/2,000		
SN74CBT3345CDGVR	296-19218-1-ND	8-Bit FET Bus Switch	20-TVSOP	.88	.68	.60
SN74CBT3345CDGVR	296-19218-2-ND	8-Bit FET Bus Switch	20-TVSOP	580.00/2,000		
SN74CBT3345CDWR	296-19219-1-ND	8-Bit FET Bus Switch	20-SOIC	.88	.68	.60
SN74CBT3345CDWR	296-19219-2-ND	8-Bit FET Bus Switch	20-SOIC	580.00/2,000		
SN74CBT3345CPWR	296-19220-1-ND	8-Bit FET Bus Switch	20-TSSOP	.88	.68	.60
SN74CBT3345CPWR	296-19220-2-ND	8-Bit FET Bus Switch	20-TSSOP	580.00/2,000		
SN74CBT3345CRGYR	296-19221-1-ND	8-Bit FET Bus Switch	20-VQFN	.97	.75	.66
SN74CBT3345CRGYR	296-19221-2-ND	8-Bit FET Bus Switch	20-VQFN	957.00/3,000		
SN74CBT3345DGVR	296-6440-1-ND	8-Bit FET Bus Switch	20-TVSOP	.70	.55	.48
SN74CBT3345DGVR	296-6440-2-ND	8-Bit FET Bus Switch	20-TVSOP	464.00/2,000		
SN74CBT3345DW	296-6441-5-ND	8-Bit FET Bus Switch	20-SOIC	.64	.50	.44
SN74CBT3345DWR	296-14798-1-ND	8-Bit FET Bus Switch	20-SOIC	.70	.55	.48
SN74CBT3345DWR	296-14798-2-ND	8-Bit FET Bus Switch	20-SOIC	464.00/2,000		
SN74CBT3345PWR	296-6442-1-ND	8-Bit FET Bus Switch	20-TSSOP	.70	.55	.48
SN74CBT3345PWR	296-6442-2-ND	8-Bit FET Bus Switch	20-TSSOP	464.00/2,000		
SN74CBT3383CDBQR	296-19222-1-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	.77	.60	.53
SN74CBT3383CDBQR	296-19222-2-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	637.50/2,500		
SN74CBT3383CDBR	296-19223-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.77	.60	.53
SN74CBT3383CDBR	296-19223-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	510.00/2,000		
SN74CBT3383CDGVR	296-19224-1-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	.70	.55	.48
SN74CBT3383CDGVR	296-19224-2-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	464.00/2,000		
SN74CBT3383CDWR	296-19225-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.70	.55	.48
SN74CBT3383CDWR	296-19225-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	464.00/2,000		
SN74CBT3383CPWR	296-19226-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.70	.55	.48
SN74CBT3383CPWR	296-19226-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	464.00/2,000		
SN74CBT3383DBQR	296-6443-1-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	.73	.57	.50
SN74CBT3383DBQR	296-6443-2-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	597.50/2,500		
SN74CBT3383DBR	296-6444-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.73	.57	.50
SN74CBT3383DBR	296-6444-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	478.00/2,000		
SN74CBT3383DW	296-6445-5-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.72	.56	.49
SN74CBT3383DWR	296-14799-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.66	.51	.45
SN74CBT3383DWR	296-14799-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	436.00/2,000		
SN74CBT3383PWR	296-6446-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.66	.51	.45
SN74CBT3383PWR	296-6446-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	436.00/2,000		
SN74CBT3384ADBQR	296-6447-1-ND	10-Bit FET Bus Switch	24-QSOP	.66	.51	.45
SN74CBT3384ADBQR	296-6447-2-ND	10-Bit FET Bus Switch	24-QSOP	545.00/2,500		
SN74CBT3384ADBR	296-6448-1-ND	10-Bit FET Bus Switch	24-SSOP	.66	.51	.45
SN74CBT3384ADBR	296-6448-2-ND	10-Bit FET Bus Switch	24-SSOP	435.00/2,000		
SN74CBT3384ADGVR	296-6449-1-ND	10-Bit FET Bus Switch	24-TVSOP	.66	.51	.45
SN74CBT3384ADGVR	296-6449-2-ND	10-Bit FET Bus Switch	24-TVSOP	435.00/2,000		
SN74CBT3384ADW	296-1169-5-ND	10-Bit FET Bus Switch	24-SOIC	.72	.56	.49
SN74CBT3384ADWR	296-1169-1-ND	10-Bit FET Bus Switch	24-SOIC	.66	.51	.45
SN74CBT3384ADWR	296-1169-2-ND	10-Bit FET Bus Switch	24-SOIC	436.00/2,000		
SN74CBT3384APWR	296-1170-1-ND	10-Bit FET Bus Switch	24-TSSOP	.66	.51	.45
SN74CBT3384APWR	296-1170-2-ND	10-Bit FET Bus Switch	24-TSSOP	436.00/2,000		
SN74CBT3384CDBQR	296-19227-1-ND	10-Bit FET Bus Switch	24-QSOP	.79	.62	.54
SN74CBT3384CDBQR	296-19227-2-ND	10-Bit FET Bus Switch	24-QSOP	652.50/2,500		
SN74CBT3384CDBR	296-19228-1-ND	10-Bit FET Bus Switch	24-SSOP	.66	.51	.45
SN74CBT3384CDBR	296-19228-2-ND	10-Bit FET Bus Switch	24-SSOP	435.00/2,000		
SN74CBT3384CDGVR	296-19229-1-ND	10-Bit FET Bus Switch	24-TVSOP	.66	.51	.45
SN74CBT3384CDGVR	296-19229-2-ND	10-Bit FET Bus Switch	24-TVSOP	436.00/2,000		
SN74CBT3384CDWR	296-19230-1-ND	10-Bit FET Bus Switch	24-SOIC	.66	.51	.45
SN74CBT3384CDWR	296-19230-2-ND	10-Bit FET Bus Switch	24-SOIC	435.00/2,000		
SN74CBT3384CPWR	296-19231-1-ND	10-Bit FET Bus Switch	24-TSSOP	.66	.51	.45
SN74CBT3384CPWR	296-19231-2-ND	10-Bit FET Bus Switch	24-TSSOP	435.00/2,000		
SN74CBT3861DBQR	296-6450-1-ND	10-Bit FET Bus Switch	24-QSOP	1.93	1.49	1.35
SN74CBT3861DBQR	296-6450-2-ND	10-Bit FET Bus Switch	24-QSOP	1857.50/2,500		
SN74CBT3861DGVR	296-6451-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.93	1.49	1.35
SN74CBT3861DGVR	296-6451-2-ND	10-Bit FET Bus Switch	24-TVSOP	1485.00/2,000		
SN74CBT3861DWR	296-6452-1-ND	10-Bit FET Bus Switch	24-SOIC	1.93	1.49	1.35
SN74CBT3861DWR	296-6452-2-ND	10-Bit FET Bus Switch	24-SOIC	1485.00/2,000		
SN74CBT3861PWR	296-6453-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.93	1.49	1.35
SN74CBT3861PWR	296-6453-2-ND	10-Bit FET Bus Switch	24-TSSOP	1486.00/2,000		
SN74CBT6800ADBR	296-6455-1-ND	10-Bit FET Bus Switch	24-SSOP	2.63	2.03	1.84
SN74CBT6800ADBR	296-6455-2-ND	10-Bit FET Bus Switch	24-SSOP	2026.00/2,000		
SN74CBT6800ADGVR	296-6456-1-ND	10-Bit FET Bus Switch	24-TVSOP	2.28	1.76	1.60
SN74CBT6800ADGVR	296-6456-2-ND	10-Bit FET Bus Switch	24-TVSOP	1755.00/2,000		
SN74CBT6800ADW	296-6457-5-ND	10-Bit FET Bus Switch	24-SOIC	2.48	2.00	1.80
SN74CBT6800ADWR	296-6457-1-ND	10-Bit FET Bus Switch	24-SOIC	2.28	1.76	1.60
SN74CBT6800ADWR	296-6457-2-ND	10-Bit FET Bus Switch	24-SOIC	1755.00/2,000		
SN74CBT6800CDBQR	296-19232-1-ND	10-Bit FET Bus Switch	24-SSOP	2.63	2.03	1.84
SN74CBT6800CDBQR	296-19232-2-ND	10-Bit FET Bus Switch	24-QSOP	2532.50/2,500		
SN74CBT6800CDBR	296-19233-1-ND	10-Bit FET Bus Switch	24-QSOP	2.63	2.03	1.84
SN74CBT6800CDBR	296-19233-2-ND	10-Bit FET Bus Switch	24-SSOP	2026.00/2,000		
SN74CBT6800CDGVR	296-19234-1-ND	10-Bit FET Bus Switch	24-TVSOP	2.28	1.76	1.60
SN74CBT6800CDGVR	296-19234-2-ND	10-Bit FET Bus Switch	24-TVSOP	1755.00/2,000		
SN74CBT6800CDWR	296-19235-1-ND	10-Bit FET Bus Switch	24-SOIC	2.28	1.76	1.60
SN74CBT6800CDWR	296-19235-2-ND	10-Bit FET Bus Switch	24-SOIC	1755.00/2,000		
SN74CBT6800CPWR	296-19236-1-ND	10-Bit FET Bus Switch	24-TSSOP	2.28	1.76	1.60
SN74CBT6800CPWR	296-19236-2-ND	10-Bit FET Bus Switch	24-TSSOP	1755.00/2,000		
SN74CBT6845CDBQR	296-19237-1-ND	8-Bit FET Bus Switch	20-QSOP	.77	.54	.47
SN74CBT6845CDBQR	296-19237-2-ND	8-Bit FET Bus Switch	20-QSOP	542.50/2,500		
SN74CBT6845CDBR	296-19238-1-ND	8-Bit FET Bus Switch	20-SSOP	.77	.54	.47
SN74CBT6845CDBR	296-19238-2-ND	8-Bit FET Bus Switch	20-SSOP	434.00/2,000		
SN74CBT6845CDGVR	296-19239-1-ND	8-Bit FET Bus Switch	20-TVSOP	.68	.53	.47
SN74CBT6845CDGVR	296-19239-2-ND	8-Bit FET Bus Switch	20-TVSOP	446.60/2,000		
SN74CBT6845CDWR	296-19240-1-ND	8-Bit FET Bus Switch	20-SOIC	.77	.54	.47
SN74CBT6845CDWR	296-19240-2-ND	8-Bit FET Bus Switch	20-SOIC	434.00/2,000		
SN74CBT6845CPWR	296-19241-1-ND	8-Bit FET Bus Switch	20-TSSOP	.77	.54	.47
SN74CBT6845CPWR	296-19241-2-ND	8-Bit FET Bus Switch	20-TSSOP	434.00/2,000		
SN74CBT6845CRGYR	296-19242-1-ND	8-Bit FET Bus Switch	20-VQFN	.79	.62	.54
SN74CBT6845CRGYR	296-19242-2-ND	8-Bit FET Bus Switch	20-VQFN	783.00/3,000		
SN74CBT16209ADGGR	296-1156-1-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	2.10	1.62	1.47
SN74CBT16209ADGGR	296-1156-2-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	1620.00/2,000		
SN74CBT16209ADGVR	296-6385-1-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	2.10	1.62	1.47
SN74CBT16209ADGVR	296-6385-2-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	1620.00/2,000		
SN74CBT16209ADL	296-1531-5-ND	18-Bit FET Bus-Exchange Switch	48-SSOP	2.48	2.00	1.80
SN74CBT16210CDGGR	296-19164-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.71	1.35	1.22
SN74CBT16210CDGGR	296-19164-2-ND	20-Bit FET Bus Switch	48-TSSOP	1260.00/2,000		
SN74CBT16210CDGVR	296-19165-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.71	1.35	1.22
SN74CBT16210CDGVR	296-19165-2-ND	20-Bit FET Bus Switch	48-TVSOP	1260.00/2,000		
SN74CBT16210CDLR	296-19166-1-ND	20-Bit FET Bus Switch	48-SSOP	1.88	1.49	1.34
SN74CBT16210CDLR	296-19166-2-ND	20-Bit FET Bus Switch	48-SSOP	743.00/1,000		
SN74CBT16210DGGR	296-6386-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.71	1.35	1.22
SN74CBT16210DGGR	296-6386-2-ND	20-Bit FET Bus Switch	48-TSSOP	1260.00/2,000		
SN74CBT16210DGVR	296-6387-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.71	1.35	1.22
SN74CBT16210DGVR	296-6387-2-ND	20-Bit FET Bus Switch	48-TVSOP	1260.00/2,000		
SN74CBT16210DL	296-6388-5-ND	20-Bit FET Bus Switch	48-SSOP	1.86	1.50	1.35
SN74CBT16210DLR	296-6388-1-ND	20-Bit FET Bus Switch	48-SSOP	1.88	1.49	1.34
SN74CBT16210DLR	296-6388-2-ND	20-Bit FET Bus Switch	48-SSOP	743.00/1,000		
SN74CBT16211ADGGR	296-1157-1-ND	24-Bit FET Bus Switch	56-TSSOP	2.10	1.62	1.47
SN74CBT16211ADGGR	296-1157-2-ND	24-Bit FET Bus Switch	56-TSSOP	1620.00/2,000		
SN74CBT16211ADGVR	296-6389-1-ND	24-Bit FET Bus Switch	56-TVSOP	2.10	1.62	1.47
SN74CBT16211ADGVR	296-6389-2-ND	24-Bit FET Bus Switch	56-TVSOP	1620.00/2,000		
SN74CBT16211ADL	296-1532-5-ND	24-Bit FET Bus Switch	56-SSOP	2.48	2.00	1.80
SN74CBT16211ADLR	296-1532-1-ND	24-Bit FET Bus Switch	56-SSOP	2.45	1.89	1.72
SN74CBT16211ADLR	296-1532-2-ND	24-Bit FET Bus Switch	56-SSOP	1015.00/1,000		
SN74CBT16211AGQLR	296-9806-1-ND	24-Bit FET Bus Switch	56-BGA	3.15	2.43	2.21
SN74CBT16211AGQLR	296-9806-2-ND	24-Bit FET Bus Switch	56-BGA	1305.00/1,000		
SN74CBT16211CDGGR	296-19167-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.71	1.35	1.22
SN74CBT16211CDGGR	296-19167-2-ND	24-Bit FET Bus Switch	56-TSSOP	1260.00/2,000		
SN74CBT16211CDGVR	296-19168-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.71	1.35	1.22
SN74CBT16211CDGVR	296-19168-2-ND	24-Bit FET Bus Switch	56-TVSOP	1260.00/2,000		
SN74CBT16211CDLR	296-19169-1-ND	24-Bit FET Bus Switch	56-SSOP	1.88	1.49	1.34
SN74CBT16211CDLR	296-19169-2-ND	24-Bit FET Bus Switch	56-SSOP	743.00/1,000		
SN74CBT16212ADGGR	296-1158-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	2.10	1.62	1.47
SN74CBT16212ADGGR	296-1158-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1620.00/2,000		
SN74CBT16212ADGVR	296-6390-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	2.10	1.62	1.47
SN74CBT16212ADGVR	296-6390-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1620.00/2,000		
SN74CBT16212ADLR	296-1159-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	2.45	1.89	1.72
SN74CBT16212ADLR	296-1159-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1015.00/1,000		
SN74CBT16212AGQLR	296-9807-1-ND	24-Bit FET Bus-Exchange Switch	56-BGA	3.15	2.43	2.21
SN74CBT16212AGQLR	296-9807-2-ND	24-Bit FET Bus-Exchange Switch	56-BGA	1305.00/1,000		
SN74CBT16212CDGGR	296-19170-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.93	1.49	1.35
SN74CBT16212CDGGR	296-19170-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1486.00/2,000		

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RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74CBT16212CDGVR	296-19171-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1.93	1.49	1.35
SN74CBT16212CDGVR	296-19171-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1486.00/2,000		
SN74CBT16212CDLR	296-19172-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	2.10	1.62	1.47
SN74CBT16212CDLR	296-19172-2-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	870.00/1,000		
SN74CBT16213DGGR	296-6391-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.93	1.49	1.35
SN74CBT16213DGGR	296-6391-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1486.00/2,000		
SN74CBT16213DL	296-6392-5-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	2.17	1.75	1.58
SN74CBT16214CDGGR	296-19173-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.75	1.35	1.23
SN74CBT16214CDGGR	296-19173-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1350.00/2,000		
SN74CBT16214CDLR	296-19174-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	1.93	1.49	1.35
SN74CBT16214CDLR	296-19174-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	798.00/1,000		
SN74CBT16214DGGR	296-6393-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.93	1.49	1.35
SN74CBT16214DGGR	296-6393-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1486.00/2,000		
SN74CBT16232DGGR	296-6395-1-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.75	1.35	1.23
SN74CBT16232DGGR	296-6395-2-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1350.00/2,000		
SN74CBT16232DLR	296-6396-1-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.93	1.49	1.35
SN74CBT16232DLR	296-6396-2-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	798.00/1,000		
SN74CBT16233DGGR	296-1161-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.93	1.49	1.35
SN74CBT16233DGGR	296-1161-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1486.00/2,000		
SN74CBT16233DGVR	296-6397-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1.93	1.49	1.35
SN74CBT16233DGVR	296-6397-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1486.00/2,000		
SN74CBT16233DLR	296-6398-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	2.28	1.76	1.60
SN74CBT16233DLR	296-6398-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	943.00/1,000		
SN74CBT16244CDGGR	296-19175-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.75	1.35	1.23
SN74CBT16244CDGGR	296-19175-2-ND	16-Bit FET Bus Switch	48-TSSOP	1350.00/2,000		
SN74CBT16244CDGVR	296-19176-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.75	1.35	1.23
SN74CBT16244CDGVR	296-19176-2-ND	16-Bit FET Bus Switch	48-TVSOP	1350.00/2,000		
SN74CBT16244CDLR	296-19177-1-ND	16-Bit FET Bus Switch	48-SSOP	1.75	1.35	1.23
SN74CBT16244CDLR	296-19177-2-ND	16-Bit FET Bus Switch	48-SSOP	725.00/1,000		
SN74CBT16244DGGR	296-6399-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.93	1.49	1.35
SN74CBT16244DGGR	296-6399-2-ND	16-Bit FET Bus Switch	48-TSSOP	1486.00/2,000		
SN74CBT16244DGVR	296-6400-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.93	1.49	1.35
SN74CBT16244DGVR	296-6400-2-ND	16-Bit FET Bus Switch	48-TVSOP	1486.00/2,000		
SN74CBT16244DLR	296-6401-1-ND	16-Bit FET Bus Switch	48-SSOP	2.28	1.76	1.60
SN74CBT16244DLR	296-6401-2-ND	16-Bit FET Bus Switch	48-SSOP	943.00/1,000		
SN74CBT16245CDGGR	296-19178-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.75	1.35	1.23
SN74CBT16245CDGGR	296-19178-2-ND	16-Bit FET Bus Switch	48-TSSOP	1350.00/2,000		
SN74CBT16245CDGVR	296-19179-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.75	1.35	1.23
SN74CBT16245CDGVR	296-19179-2-ND	16-Bit FET Bus Switch	48-TVSOP	1350.00/2,000		
SN74CBT16245CDLR	296-19180-1-ND	16-Bit FET Bus Switch	48-SSOP	1.75	1.35	1.23
SN74CBT16245CDLR	296-19180-2-ND	16-Bit FET Bus Switch	48-SSOP	725.00/1,000		
SN74CBT16245DGGR	296-6402-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.75	1.35	1.23
SN74CBT16245DGGR	296-6402-2-ND	16-Bit FET Bus Switch	48-TSSOP	1350.00/2,000		
SN74CBT16245DGVR	296-6403-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.75	1.35	1.23
SN74CBT16245DGVR	296-6403-2-ND	16-Bit FET Bus Switch	48-TVSOP	1350.00/2,000		
SN74CBT16245DLR	296-6404-1-ND	16-Bit FET Bus Switch	48-SSOP	1.75	1.35	1.23
SN74CBT16245DLR	296-6404-2-ND	16-Bit FET Bus Switch	48-SSOP	725.00/1,000		
SN74CBT16292DGGR	296-1162-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1.93	1.49	1.35
SN74CBT16292DGGR	296-1162-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1486.00/2,000		
SN74CBT16292DGVR	296-6405-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1.93	1.49	1.35
SN74CBT16292DGVR	296-6405-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1485.00/2,000		
SN74CBT16292DL	296-1534-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	2.33	1.88	1.69
SN74CBT16292DLR	296-1534-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	2.28	1.76	1.60
SN74CBT16292DLR	296-1534-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	943.00/1,000		
SN74CBT16390DGGR	296-1163-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	7.42	6.16	5.60
SN74CBT16390DGGR	296-1163-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	7280.00/2,000		
SN74CBT16390DGVR	296-6406-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	7.42	6.16	5.60
SN74CBT16390DGVR	296-6406-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	7280.00/2,000		
SN74CBT16390DL	296-1535-5-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-SSOP	9.13	7.49	6.76
SN74CBT16800CDGGR	296-19181-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.75	1.35	1.23
SN74CBT16800CDGGR	296-19181-2-ND	20-Bit FET Bus Switch	48-TSSOP	1350.00/2,000		
SN74CBT16800CDGVR	296-19182-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.75	1.35	1.23
SN74CBT16800CDGVR	296-19182-2-ND	20-Bit FET Bus Switch	48-TVSOP	1350.00/2,000		
SN74CBT16800CDLR	296-19183-1-ND	20-Bit FET Bus Switch	48-SSOP	1.93	1.49	1.35
SN74CBT16800CDLR	296-19183-2-ND	20-Bit FET Bus Switch	48-SSOP	798.00/1,000		
SN74CBT16811CDGGR	296-19184-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.75	1.35	1.23
SN74CBT16811CDGGR	296-19184-2-ND	24-Bit FET Bus Switch	56-TSSOP	1350.00/2,000		
SN74CBT16811CDGVR	296-19185-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.75	1.35	1.23
SN74CBT16811CDGVR	296-19185-2-ND	24-Bit FET Bus Switch	56-TVSOP	1350.00/2,000		
SN74CBT16811CDLR	296-19186-1-ND	24-Bit FET Bus Switch	56-SSOP	1.93	1.49	1.35
SN74CBT16811CDLR	296-19186-2-ND	24-Bit FET Bus Switch	56-SSOP	798.00/1,000		
SN74CBT16861DGGR	296-6407-1-ND	20-Bit FET Bus Switch	48-TSSOP	3.30	2.70	2.42
SN74CBT16861DGGR	296-6407-2-ND	20-Bit FET Bus Switch	48-TSSOP	2926.00/2,000		
SN74CBT16861DGVR	296-6408-1-ND	20-Bit FET Bus Switch	48-TVSOP	3.30	2.70	2.42
SN74CBT16861DGVR	296-6408-2-ND	20-Bit FET Bus Switch	48-TVSOP	2926.00/2,000		
SN74CBT16861DLR	296-6409-1-ND	20-Bit FET Bus Switch	48-SSOP	3.75	3.07	2.75
SN74CBT16861DLR	296-6409-2-ND	20-Bit FET Bus Switch	48-SSOP	1750.00/1,000		
SN74CBT32245ZKER	296-23253-1-ND	32-Bit FET Bus Switch	96-BGA	3.45	2.82	2.53
SN74CBT32245ZKER	296-23253-2-ND	32-Bit FET Bus Switch	96-BGA	1610.00/1,000		
SN74CBT162292DGGR	296-1160-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3.60	2.94	2.64
SN74CBT162292DGGR	296-1160-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3192.00/2,000		
SN74CBT162292DGVR	296-12881-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3.60	2.94	2.64
SN74CBT162292DGVR	296-12881-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3192.00/2,000		
SN74CBT162292DL	296-1533-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	3.78	3.04	2.77
SN74CBTD1G125DBVR	296-12211-1-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	.61	.43	.37
SN74CBTD1G125DBVR	296-12211-2-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	513.00/3,000		
SN74CBTD1G125DCKR	296-6476-1-ND	Single FET Bus Switch w/Level Shifting	SC70-5	.61	.43	.37
SN74CBTD1G125DCKR	296-6476-2-ND	Single FET Bus Switch w/Level Shifting	SC70-5	511.50/3,000		
SN74CBTD1G384DCKR	296-12416-1-ND	Single FET Bus Switch w/Level Shifting	SC70-5	.99	.78	.71
SN74CBTD1G384DCKR	296-12416-2-ND	Single FET Bus Switch w/Level Shifting	SC70-5	1092.00/3,000		
SN74CBTD3305CDR	296-19243-1-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	.66	.51	.45
SN74CBTD3305CDR	296-19243-2-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	545.00/2,500		
SN74CBTD3305CPWR	296-17508-1-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	.66	.51	.45
SN74CBTD3305CPWR	296-17508-2-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	436.00/2,000		
SN74CBTD3306CDR	296-19244-1-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	.66	.51	.45
SN74CBTD3306CDR	296-19244-2-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	545.00/2,500		
SN74CBTD3306CPWR	296-17989-1-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	.66	.51	.45
SN74CBTD3306CPWR	296-17989-2-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	435.00/2,000		
SN74CBTD3306D	296-6477-5-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	.72	.56	.49
SN74CBTD3306DR	296-14800-1-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	.66	.51	.45
SN74CBTD3306DR	296-14800-2-ND	Dual FET Bus Switch w/Level Shifting	8-SOIC	545.00/2,500		
SN74CBTD3306PW	296-26447-5-ND	Dual FET Bus Switch w/Level Shifting* ***NEW!***	8-TSSOP	.72	.56	.49
SN74CBTD3306PWR	296-6478-1-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	.66	.51	.45
SN74CBTD3306PWR	296-6478-2-ND	Dual FET Bus Switch w/Level Shifting	8-TSSOP	436.00/2,000		
SN74CBTD3384CDBQR	296-18052-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	.87	.68	.60
SN74CBTD3384CDBQR	296-18052-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	717.50/2,500		
SN74CBTD3384CDBR	296-17537-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.87	.68	.60
SN74CBTD3384CDBR	296-17537-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	574.00/2,000		
SN74CBTD3384CDGVR	296-19245-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.79	.62	.54
SN74CBTD3384CDGVR	296-19245-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	522.00/2,000		
SN74CBTD3384CDWR	296-19246-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.79	.62	.54
SN74CBTD3384CDWR	296-19246-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	522.00/2,000		
SN74CBTD3384CPWR	296-17538-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	.79	.62	.54
SN74CBTD3384CPWR	296-17538-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	522.00/2,000		
SN74CBTD3384DBQR	296-6479-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	.87	.68	.60
SN74CBTD3384DBQR	296-6479-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	717.50/2,500		
SN74CBTD3384DBR	296-6480-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.87	.68	.60
SN74CBTD3384DBR	296-6480-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	574.00/2,000		
SN74CBTD3384DGVR	296-6481-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.79	.62	.54
SN74CBTD3384DGVR	296-6481-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	522.00/2,000		
SN74CBTD3384DW	296-6482-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.86	.67	.59
SN74CBTD3384DWR	296-6482-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.79	.62	.54
SN74CBTD3384DWR	296-6482-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	522.00/2,000		
SN74CBTD3384PWR	296-1173-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	.79	.62	.54
SN74CBTD3384PWR	296-1173-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	522.00/2,000		
SN74CBTD3861DBQR	296-6483-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	.77	.60	.53
SN74CBTD3861DBQR	296-6483-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	637.50/2,500		
SN74CBTD3861DBR	296-6484-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.77	.60	.53
SN74CBTD3861DBR	296-6484-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	510.00/2,000		
SN74CBTD3861DGVR	296-6485-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.70	.55	.48
SN74CBTD3861DGVR	296-6485-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	464.00/2,000		
SN74CBTD3861DW	296-6486-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.77	.60	.52
SN74CBTD3861PWR	296-6487-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	.70	.55	.48
SN74CBTD3861PWR	296-6487-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	464.00/2,000		
SN74CBTD16210DGGR	296-1171-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	3.30	2.70	2.42
SN74CBTD16210DGGR	296-1171-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	2926.00/2,000		
SN74CBTD16210DGVR	296-6474-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	3.30	2.70	2.42
SN74CBTD16210DGVR	296-6474-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	2926.00/2,000		
SN74CBTD16210DL	296-1541-5-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	4.06	3.27	2.98
SN74CBTD16210DLR	296-1541-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	3.75	3.07	2.75
SN74CBTD16210DLR	296-1541-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	1750.00/1,000		
SN74CBTD16211DGGR	296-1172-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	3.60	2.94	2.64
SN74CBTD16211DGGR	296-1172-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	3192.00/2,000		
SN74CBTD16211DGVR	296-6475-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	3.60	2.94	2.64
SN74CBTD16211DGVR	296-6475-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	3192.00/2,000		
SN74CBTD16211DL	296-1542-5-ND	24-Bit FET Bus Switch w/Level Shifting	56-SSOP	3.36	2.70	2.46
SN74CBTH16211DGGR	296-6461-1-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	4.05	3.31	2.97
SN74CBTH16211DGGR	296-6461-2-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	3592.00/2,000		
SN74CBTH16211DL	296-1543-5-ND	24-Bit FET Bus Switch with Bus Hold	56-SSOP	4.90	3.94	3.59
SN74CBTK6800DGVR	296-6493-1-ND	10-Bit FET Bus Switch	24-TVSOP	2.28	1.76	1.60
SN74CBTK6800DGVR	296-6493-2-ND	10-Bit FET Bus Switch	24-TVSOP	1755.00/2,000		
SN74CBTK6800DWR	296-6494-1-ND	10-Bit FET Bus Switch	24-SOIC	2.28	1.76	1.60
SN74CBTK6800DWR	296-6494-2-ND	10-Bit FET Bus Switch	24-SOIC	1755.00/2,000		
SN74CBTK6800PWR	296-6495-1-ND	10-Bit FET Bus Switch	24-TSSOP	2.28	1.76	1.60
SN74CBTK6800PWR	296-6495-2-ND	10-Bit FET Bus Switch	24-TSSOP	1755.00/2,000		
SN74CBTK16245DGGR	296-6488-1-ND	16-Bit FET Bus Switch	48-TSSOP	4.62	3.78	3.39
SN74CBTK16245DGGR	296-6488-2-ND	16-Bit FET Bus Switch	48-TSSOP	4096.40/2,000		
SN74CBTK16245DGVR	296-6489-1-ND	16-Bit FET Bus Switch	48-TVSOP	4.62	3.78	3.39
SN74CBTK16245DGVR	296-6489-2-ND	16-Bit FET Bus Switch	48-TVSOP	4096.40/2,000		
SN74CBTK16245DLR	296-6490-1-ND	16-Bit FET Bus Switch	48-SSOP	4.62	3.78	3.39
SN74CBTK16245DLR	296-6490-2-ND	16-Bit FET Bus Switch	48-SSOP	2156.00/1,000		
SN74CBTK32245GKER	296-6491-1-ND	32-Bit FET Bus Switch	96-LFBGA	11.05	9.18	8.34
SN74CBTK32245GKER	296-6491-2-ND	32-Bit FET Bus Switch	96-LFBGA	5630.00/1,000		
SN74CBTLV1G125DBVR	296-9109-1-ND	Low Voltage Single FET Bus Switch	SOT-23-5	1.06	.82	.72
SN74CBTLV1G125DBVR	296-9109-2-ND	Low Voltage Single FET Bus Switch	SOT-23-5	1044.00/3,000		
SN74CBTLV1G125DCKR	296-9110-1-ND	Low Voltage Single FET Bus Switch	SC70-5	1.06	.82	.72
SN74CBTLV1G125DCKR	296-9110-2-ND	Low Voltage Single FET Bus Switch	SC70-5	1044.00/3,000		
SN74CBTLV3125DBQR	296-9111-1-ND	Low Voltage Quad FET Bus Switch	16-QSOP	1.00	.80	.72
SN74CBTLV3125DBQR	296-9111-2-ND	Low Voltage Quad FET Bus Switch	16-QSOP	925.00/2,500		
SN74CBTLV3125DGVR	296-9112-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	1.06	.82	.72
SN74CBTLV3125DGVR	296-9112-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	696.00/2,000		
SN74CBTLV3125DR	296-9113-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	1.06	.82	.72
SN74CBTLV3125DR	296-9113-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	870.00/2,500		
SN74CBTLV3125PWR	296-9114-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	1.06	.82	.72
SN74CBTLV3125PWR	296-9114-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	696.00/2,000		
SN74CBTLV3125RGYR	296-15103-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	1.00	.80	.72
SN74CBTLV3125RGYR	296-15103-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	1110.00/3,000		
SN74CBTLV3126DBQR	296-9115-1-ND	Low Voltage Quad FET Bus Switch	16-QSOP	1.00	.80	.72
SN74CBTLV3126DBQR	296-9115-2-ND	Low Voltage Quad FET Bus Switch	16-QSOP	925.00/2,500		
SN74CBTLV3126DGVR	296-9116-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	1.06	.82	.72
SN74CBTLV3126DGVR	296-9116-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	696.00/2,000		
SN74CBTLV3126DR	296-9117-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	1.06	.82	.72
SN74CBTLV3126DR	296-9117-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	870.00/2,500		
SN74CBTLV3126PWR	296-9118-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	1.06	.82	.72
SN74CBTLV3126PWR	296-9118-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	696.00/2,000		
SN74CBTLV3126RGYR	296-15104-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	1.00	.80	.72

* ***RoHS Compliant***

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBTLV3126RGYR	296-15104-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	1110.00/3,000		
SN74CBTLV3245ADBQR	296-9119-1-ND	Low Voltage Octal FET Bus Switch	20-QSOP	1.03	.81	.73
SN74CBTLV3245ADBQR	296-9119-2-ND	Low Voltage Octal FET Bus Switch	20-QSOP	945.00/2,500		
SN74CBTLV3245ADGVR	296-9120-1-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	1.03	.81	.73
SN74CBTLV3245ADGVR	296-9120-2-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	756.00/2,000		
SN74CBTLV3245ADW	296-1544-5-ND	Low Voltage Octal FET Bus Switch	20-SOIC	1.13	.91	.80
SN74CBTLV3245ADWR	296-1544-1-ND	Low Voltage Octal FET Bus Switch	20-SOIC	1.03	.81	.73
SN74CBTLV3245ADWR	296-1544-2-ND	Low Voltage Octal FET Bus Switch	20-SOIC	756.00/2,000		
SN74CBTLV3245APWR	296-9121-1-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	1.03	.81	.73
SN74CBTLV3245APWR	296-9121-2-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	756.00/2,000		
SN74CBTLV3245ARGYR	296-17822-1-ND	Low Voltage Octal FET Bus Switch	20-VQFN	1.44	1.14	1.03
SN74CBTLV3245ARGYR	296-17822-2-ND	Low Voltage Octal FET Bus Switch	20-VQFN	1587.00/3,000		
SN74CBTLV3245AZQNR	296-23255-1-ND	Low Voltage Octal FET Bus Switch	20-VFBGA	1.44	1.14	1.03
SN74CBTLV3245AZQNR	296-23255-2-ND	Low Voltage Octal FET Bus Switch	20-VFBGA	567.00/1,000		
SN74CBTLV3251DBQR	296-9126-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QSOP	1.00	.80	.72
SN74CBTLV3251DBQR	296-9126-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QSOP	925.00/2,500		
SN74CBTLV3251DGVR	296-9127-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	1.06	.82	.72
SN74CBTLV3251DGVR	296-9127-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	696.00/2,000		
SN74CBTLV3251DR	296-9128-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	1.06	.82	.72
SN74CBTLV3251DR	296-9128-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	870.00/2,500		
SN74CBTLV3251PWR	296-9129-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	1.06	.82	.72
SN74CBTLV3251PWR	296-9129-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	696.00/2,000		
SN74CBTLV3251RGYR	296-15105-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-VQFN	1.00	.80	.72
SN74CBTLV3251RGYR	296-15105-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-VQFN	1110.00/3,000		
SN74CBTLV3253DBQR	296-9130-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-QSOP	1.00	.80	.72
SN74CBTLV3253DBQR	296-9130-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-QSOP	925.00/2,500		
SN74CBTLV3253DGVR	296-9131-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	1.06	.82	.72
SN74CBTLV3253DGVR	296-9131-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	696.00/2,000		
SN74CBTLV3253DR	296-9132-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	1.06	.82	.72
SN74CBTLV3253DR	296-9132-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	870.00/2,500		
SN74CBTLV3253PW	296-26453-5-ND	Low Volt. Dual 1-of-4 FET Mux/Demux* ***NEW!***	16-TSSOP	1.01	.81	.71
SN74CBTLV3253PWR	296-9133-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	1.06	.82	.72
SN74CBTLV3253PWR	296-9133-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	696.00/2,000		
SN74CBTLV3253RGYR	296-15106-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-VQFN	1.00	.80	.72
SN74CBTLV3253RGYR	296-15106-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-VQFN	1110.00/3,000		
SN74CBTLV3257D	296-9134-5-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	1.01	.81	.71
SN74CBTLV3257DBQR	296-9135-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	1.00	.80	.72
SN74CBTLV3257DBQR	296-9135-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	925.00/2,500		
SN74CBTLV3257DGVR	296-9136-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.06	.82	.72
SN74CBTLV3257DGVR	296-9136-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	696.00/2,000		
SN74CBTLV3257PWR	296-9138-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1.06	.82	.72
SN74CBTLV3257PWR	296-9138-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	696.00/2,000		
SN74CBTLV3257RGYR	296-15107-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	1.00	.80	.72
SN74CBTLV3257RGYR	296-15107-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-VQFN	1110.00/3,000		
SN74CBTLV3383DBQR	296-9139-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-QSOP	1.00	.80	.72
SN74CBTLV3383DBQR	296-9139-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-QSOP	925.00/2,500		
SN74CBTLV3383DGVR	296-9140-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	1.06	.82	.72
SN74CBTLV3383DGVR	296-9140-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	696.00/2,000		
SN74CBTLV3383DW	296-1545-5-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	1.01	.81	.71
SN74CBTLV3383DWR	296-1545-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	1.06	.82	.72
SN74CBTLV3383DWR	296-1545-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	696.00/2,000		
SN74CBTLV3383PWR	296-9141-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	1.06	.82	.72
SN74CBTLV3383PWR	296-9141-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	696.00/2,000		
SN74CBTLV3384DBQR	296-9142-1-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	.97	.75	.66
SN74CBTLV3384DBQR	296-9142-2-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	797.50/2,500		
SN74CBTLV3384DGVR	296-9143-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	.97	.75	.66
SN74CBTLV3384DGVR	296-9143-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	638.00/2,000		
SN74CBTLV3384DW	296-1546-5-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.92	.74	.65
SN74CBTLV3384DWR	296-1546-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.97	.75	.66
SN74CBTLV3384DWR	296-1546-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	638.00/2,000		
SN74CBTLV3384PW	296-26455-5-ND	Low Voltage 10-Bit FET Bus Switch* ***NEW!***	24-TSSOP	.92	.74	.65
SN74CBTLV3384PWR	296-9144-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.97	.75	.66
SN74CBTLV3384PWR	296-9144-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	638.00/2,000		
SN74CBTLV3857DBQR	296-9145-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-QSOP	.97	.75	.66
SN74CBTLV3857DBQR	296-9145-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-QSOP	797.50/2,500		
SN74CBTLV3857DGVR	296-9146-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	.97	.75	.66
SN74CBTLV3857DGVR	296-9146-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	638.00/2,000		
SN74CBTLV3857DW	296-9147-5-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.88	.69	.60
SN74CBTLV3857DWR	296-9147-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.97	.75	.66
SN74CBTLV3857DWR	296-9147-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	638.00/2,000		
SN74CBTLV3861DBQR	296-9149-1-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	.97	.75	.66
SN74CBTLV3861DBQR	296-9149-2-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	797.50/2,500		
SN74CBTLV3861DGVR	296-9152-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	1.01	.79	.69
SN74CBTLV3861DGVR	296-9152-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	667.00/2,000		
SN74CBTLV3861DWR	296-9151-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.97	.75	.66
SN74CBTLV3861DWR	296-9151-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	638.00/2,000		
SN74CBTLV3861NSR	296-13182-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	.97	.75	.66
SN74CBTLV3861NSR	296-13182-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	638.00/2,000		
SN74CBTLV3861PWR	296-9153-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.97	.75	.66
SN74CBTLV3861PWR	296-9153-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	638.00/2,000		
SN74CBTLV16210DLR	296-6496-1-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	3.00	2.45	2.20
SN74CBTLV16210DLR	296-6496-2-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	1400.00/1,000		
SN74CBTLV16210GR	296-6497-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2.80	2.16	1.96
SN74CBTLV16210GR	296-6497-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2160.00/2,000		
SN74CBTLV16210VR	296-6498-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2.80	2.16	1.96
SN74CBTLV16210VR	296-6498-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2160.00/2,000		
SN74CBTLV16211DLR	296-6499-1-ND	Low Voltage 24-Bit FET Bus Switch	56-SSOP	3.15	2.43	2.21
SN74CBTLV16211DLR	296-6499-2-ND	Low Voltage 24-Bit FET Bus Switch	56-SSOP	1305.00/1,000		
SN74CBTLV16211GR	296-6500-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	3.15	2.43	2.21
SN74CBTLV16211GR	296-6500-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	2430.00/2,000		
SN74CBTLV16211VR	296-9100-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	3.15	2.43	2.21
SN74CBTLV16211VR	296-9100-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	2430.00/2,000		
SN74CBTLV16212DLR	296-9101-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	3.00	2.45	2.20
SN74CBTLV16212DLR	296-9101-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	1400.00/1,000		
SN74CBTLV16212GR	296-9102-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	3.15	2.43	2.21
SN74CBTLV16212GR	296-9102-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	2430.00/2,000		
SN74CBTLV16212VR	296-9103-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	3.15	2.43	2.21
SN74CBTLV16212VR	296-9103-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	2430.00/2,000		
SN74CBTLV16292DLR	296-9104-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	2.80	2.16	1.96
SN74CBTLV16292DLR	296-9104-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1160.00/1,000		
SN74CBTLV16292GR	296-9105-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2.80	2.16	1.96
SN74CBTLV16292GR	296-9105-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2160.00/2,000		
SN74CBTLV16292VR	296-12882-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2.80	2.16	1.96
SN74CBTLV16292VR	296-12882-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2160.00/2,000		
SN74CBTLV16800DLR	296-9106-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	3.00	2.45	2.20
SN74CBTLV16800DLR	296-9106-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	1400.00/1,000		
SN74CBTLV16800GR	296-9107-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	3.15	2.43	2.21
SN74CBTLV16800GR	296-9107-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2430.00/2,000		
SN74CBTLV16800VR	296-9108-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	3.15	2.43	2.21
SN74CBTLV16800VR	296-9108-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2430.00/2,000		
SN74CBTLVR16292GR	296-9154-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	4.20	3.43	3.08
SN74CBTLVR16292GR	296-9154-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3724.00/2,000		
SN74CBTLVR16292LR	296-9155-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	4.20	3.43	3.08
SN74CBTLVR16292LR	296-9155-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1960.00/1,000		
SN74CBTLVR16292VR	296-9156-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	4.20	3.43	3.08
SN74CBTLVR16292VR	296-9156-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3724.00/2,000		
SN74CBTR16861DGGR	296-12336-1-ND	20-Bit FET Bus Switch	48-TSSOP	3.63	2.97	2.67
SN74CBTR16861DGGR	296-12336-2-ND	20-Bit FET Bus Switch	48-TSSOP	3218.60/2,000		
SN74CBTR16861DGVR	296-13183-1-ND	20-Bit FET Bus Switch	48-TVSOP	3.63	2.97	2.67
SN74CBTR16861DGVR	296-13183-2-ND	20-Bit FET Bus Switch	48-TVSOP	3218.60/2,000		
SN74CBTR16861DLR	296-12337-1-ND	20-Bit FET Bus Switch	48-SSOP	3.63	2.97	2.67
SN74CBTR16861DLR	296-12337-2-ND	20-Bit FET Bus Switch	48-SSOP	1694.00/1,000		
SN74CBTS3306DR	296-9157-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	1.01	.79	.69
SN74CBTS3306DR	296-9157-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	833.75/2,500		
SN74CBTS3306PWR	296-9158-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	1.01	.79	.69
SN74CBTS3306PWR	296-9158-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	668.00/2,000		
SN74CBTS3384DBQR	296-9159-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-QSOP	.96	.76	.69
SN74CBTS3384DBQR	296-9159-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-QSOP	885.00/2,500		
SN74CBTS3384DBR	296-9160-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	.96	.76	.69
SN74CBTS3384DBR	296-9160-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	708.00/2,000		
SN74CBTS3384DW	296-9161-5-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SOIC	.97	.78	.68
SN74CBTS6800DBQR	296-9163-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-QSOP	2.63	2.03	1.84
SN74CBTS6800DBQR	296-9163-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-QSOP	2532.50/2,500		
SN74CBTS6800DGVR	296-9164-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TVSOP	2.28	1.76	1.60
SN74CBTS6800DGVR	296-9164-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TVSOP	1755.00/2,000		
SN74CBTS6800DWR	296-9165-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-SOIC	2.28	1.76	1.60
SN74CBTS6800DWR	296-9165-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-SOIC	1755.00/2,000		
SN74CBTS6800PWR	296-9166-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TSSOP	2.28	1.76	1.60
SN74CBTS6800PWR	296-9166-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TSSOP	1755.00/2,000		
SN74CBTS16211DGGR	296-1174-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	4.50	3.68	3.30
SN74CBTS16211DGGR	296-1174-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3990.00/2,000		
SN74CBTS16211DL	296-1547-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	5.46	4.39	4.00
SN74CBTS16212DGGR	296-1175-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	4.50	3.68	3.30
SN74CBTS16212DGGR	296-1175-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3990.00/2,000		
SN74CBTS16212DL	296-1548-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	5.46	4.39	4.00
74F Family						
SN74F00D	296-1176-5-ND	Quad 2-Input Positive-NAND Gate* ***NEW!***	14-SOIC	.68	.51	.44
SN74F00DR	296-1176-1-ND	Quad 2-Input NAND Gate	14-SOIC	.66	.47	.40
SN74F00DR	296-1176-2-ND	Quad 2-Input NAND Gate	14-SOIC	465.00/2,500		
SN74F02D	296-3540-5-ND	Quad 2-Input Pos. NOR Gate* ***NEW!***	14-SOIC	.68	.51	.44
SN74F02DR	296-14801-1-ND	Quad 2-Input NOR Gate	14-SOIC	.66	.47	.40
SN74F02DR	296-14801-2-ND	Quad 2-Input NOR Gate	14-SOIC	465.00/2,500		
SN74F04D	296-1177-5-ND	Hex Inverter	14-SOIC	.68	.51	.44
SN74F04DR	296-1177-1-ND	Hex Inverter	14-SOIC	.66	.47	.40
SN74F04DR	296-1177-2-ND	Hex Inverter	14-SOIC	465.00/2,500		
SN74F04N	296-3542-5-ND	Hex Inverter	14-Dip	.63	.47	.40
SN74F08D	296-1178-5-ND	Quad 2-Input AND Gate	14-SOIC	.68	.51	.44
SN74F08DR	296-1178-1-ND	Quad 2-Input AND Gate	14-SOIC	.66	.47	.40
SN74F08DR	296-1178-2-ND	Quad 2-Input AND Gate	14-SOIC	465.00/2,500		
SN74F08N	296-3543-5-ND	Quad 2-Input AND Gate	14-Dip	.63	.47	.40
SN74F10DR	296-14802-1-ND	Triple 3-Input NAND Gate	14-SOIC	.66	.47	.40
SN74F10DR	296-14802-2-ND	Triple 3-Input NAND Gate	14-SOIC	465.00/2,500		
SN74F10N	296-3546-5-ND	Triple 3-Input NAND Gate	14-Dip	.63	.47	.40
SN74F27N	296-3577-5-ND	Triple 3-Input NOR Gate	14-Dip	.47	.35	.30
SN74F30DR	296-3581-1-ND	8-Input NAND Gate	14-SOIC	.66	.47	.40
SN74F30DR	296-3581-2-ND	8-Input NAND Gate	14-SOIC	465.00/2,500		
SN74F32D	296-1182-5-ND	Quad 2-Input Pos.-OR Gate* ***NEW!***	14-SOIC	.68	.51	.44

* *RoHS Compliant*

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TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74F32DR	296-1182-1-ND	Quad 2-Input OR Gate	14-SOIC	.66	.47	.40
SN74F32DR	296-1182-2-ND	Quad 2-Input OR Gate	14-SOIC	465.00/2,500		
SN74F32N	296-3583-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.63	.47	.40
SN74F38D	296-3589-5-ND	Quad 2-Input Pos.-NAND Buffer* ***NEW!***	14-SOIC	.51	.38	.33
SN74F38DR	296-14312-1-ND	Quad 2-Input NAND Buffer	14-SOIC	.50	.35	.30
SN74F38DR	296-14312-2-ND	Quad 2-Input NAND Buffer	14-SOIC	348.75/2,500		
SN74F38N	296-3590-5-ND	Quad 2-Input NAND Buffer	14-Dip	.47	.35	.30
SN74F74D	296-1183-5-ND	Dual D-Type Flip-Flop	14-SOIC	.68	.51	.44
SN74F74DR	296-1183-1-ND	Dual D-Type Flip-Flop	14-SOIC	.66	.47	.40
SN74F74DR	296-1183-2-ND	Dual D-Type Flip-Flop	14-SOIC	465.00/2,500		
SN74F74N	296-1558-5-ND	Dual D-Type Flip-Flop	14-Dip	.63	.47	.40
SN74F86DR	296-14825-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.66	.47	.40
SN74F86DR	296-14825-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	465.00/2,500		
SN74F86N	296-3602-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.63	.47	.40
SN74F125D	296-1179-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.63	.47	.40
SN74F126DR	296-14804-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.61	.43	.37
SN74F126DR	296-14804-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	427.50/2,500		
SN74F138D	296-3551-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.63	.47	.40
SN74F138DR	296-14805-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.61	.43	.37
SN74F138DR	296-14805-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	427.50/2,500		
SN74F138N	296-3552-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.57	.43	.37
SN74F138NSR	296-24981-1-ND	3-8 Line Decoder/Demux* ***NEW!***	16-SOP	.67	.47	.40
SN74F138NSR	296-24981-2-ND	3-8 Line Decoder/Demux* ***NEW!***	16-SOP	376.00/2,000		
SN74F151BDR	296-14806-1-ND	1-8 Data Selector/Multiplexer	16-SOIC	.66	.51	.45
SN74F151BDR	296-14806-2-ND	1-8 Data Selector/Multiplexer	16-SOIC	545.00/2,500		
SN74F153DR	296-14807-1-ND	Dual 1-4 Data Selector/Multiplexer	16-SOIC	.66	.47	.40
SN74F153DR	296-14807-2-ND	Dual 1-4 Data Selector/Multiplexer	16-SOIC	465.00/2,500		
SN74F153NSR	296-13184-1-ND	Dual 1-4 Data Selector/Multiplexer	16-SOP	.73	.51	.44
SN74F153NSR	296-13184-2-ND	Dual 1-4 Data Selector/Multiplexer	16-SOP	410.00/2,000		
SN74F157AN	296-1552-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.57	.43	.37
SN74F161AD	296-3557-5-ND	Sync. 4-Bit Binary Counter	16-SOIC	.72	.56	.49
SN74F161ANSR	296-13185-1-ND	Sync. 4-Bit Binary Counter	16-SOP	.73	.57	.50
SN74F161ANSR	296-13185-2-ND	Sync. 4-Bit Binary Counter	16-SOP	478.00/2,000		
SN74F163AN	296-14810-5-ND	Sync. 4-Bit Binary Counter	16-Dip	.62	.48	.42
SN74F174ADR	296-14811-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.77	.54	.47
SN74F174ADR	296-14811-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	542.50/2,500		
SN74F175DR	296-14812-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.77	.54	.47
SN74F175DR	296-14812-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	542.50/2,500		
SN74F240DWR	296-14813-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.68	.60
SN74F240DWR	296-14813-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	580.00/2,000		
SN74F240N	296-3568-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.69	.60
SN74F244DBR	296-3570-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.97	.75	.66
SN74F244DBR	296-3570-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	638.00/2,000		
SN74F244DWR	296-1180-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.68	.60
SN74F244DWR	296-1180-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	580.00/2,000		
SN74F244N	296-1553-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.69	.60
SN74F245DW	296-1181-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.75	.65
SN74F245DWR	296-1181-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.88	.68	.60
SN74F245DWR	296-1181-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	580.00/2,000		
SN74F245N	296-3572-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.88	.69	.60
SN74F251BDR	296-14814-1-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	.68	.53	.47
SN74F251BDR	296-14814-2-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	561.88/2,500		
SN74F257D	296-1555-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.74	.58	.51
SN74F257DR	296-1555-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.68	.53	.47
SN74F257DR	296-1555-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	561.88/2,500		
SN74F260DR	296-14815-1-ND	Dual 5-Input NOR Gate	14-SOIC	.68	.53	.47
SN74F280BDR	296-14816-1-ND	9-Bit Parity Generator/Checker	14-SOIC	.68	.53	.47
SN74F280BDR	296-14816-2-ND	9-Bit Parity Generator/Checker	14-SOIC	561.88/2,500		
SN74F280BN	296-3579-5-ND	9-Bit Parity Generator/Checker	14-Dip	.68	.53	.47
SN74F283N	296-3580-5-ND	4-Bit Binary Full Adders	16-Dip	.79	.62	.54
SN74F373DWR	296-14817-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.88	.68	.60
SN74F373DWR	296-14817-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	580.00/2,000		
SN74F373N	296-3586-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.69	.60
SN74F374N	296-3588-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-Dip	.88	.69	.60
SN74F374NSR	296-13186-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	.97	.75	.66
SN74F374NSR	296-13186-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	638.00/2,000		
SN74F521DWR	296-14819-1-ND	8-Bit Identity Comparator	20-SOIC	.79	.62	.54
SN74F521DWR	296-14819-2-ND	8-Bit Identity Comparator	20-SOIC	522.00/2,000		
SN74F541DWR	296-14820-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.68	.60
SN74F541DWR	296-14820-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	580.00/2,000		
SN74F541NSR	296-13187-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.88	.68	.60
SN74F541NSR	296-13187-2-ND	Tri-State Octal Buffer/Driver	20-SOP	580.00/2,000		
SN74F543DWR	296-14821-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.33	1.05	.95
SN74F543DWR	296-14821-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	980.00/2,000		
SN74F573DWR	296-14822-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.75	.58	.51
SN74F573DWR	296-14822-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	494.00/2,000		
SN74F573N	296-3599-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.75	.58	.51
SN74F574DWR	296-14823-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.79	.62	.54
SN74F574DWR	296-14823-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	522.00/2,000		
SN74F574N	296-14824-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-Dip	.79	.62	.54
SN74F1016DWR	296-3544-1-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	5.85	4.78	4.29
SN74F1016DWR	296-3544-2-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	5188.00/2,000		
		FCT Family				
74FCT162244ATPVCT	296-14458-1-ND	16-Bit Buffer/Line Driver	48-SSOP	2.45	1.89	1.72
74FCT162244ATPVCT	296-14458-2-ND	16-Bit Buffer/Line Driver	48-SSOP	1015.00/1,000		
74FCT162244CTPACT	296-14296-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.52	1.20	1.08
74FCT162244CTPACT	296-14296-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1120.00/2,000		
74FCT162373ATPACT	296-14459-1-ND	16-Bit D-Type Latch	48-TSSOP	2.28	1.76	1.60
74FCT162373ATPACT	296-14459-2-ND	16-Bit D-Type Latch	48-TSSOP	1756.00/2,000		
74FCT162374ATPACT	296-23189-1-ND	16-Bit Register	48-TSSOP	2.28	1.76	1.60
74FCT162374ATPACT	296-23189-2-ND	16-Bit Register	48-TSSOP	1756.00/2,000		
74FCT162374CTPACT	296-23190-1-ND	16-Bit Register	48-TSSOP	2.28	1.76	1.60
74FCT162501ATPVCT	296-14460-1-ND	18-Bit Registered Transceiver	56-SSOP	2.28	1.76	1.60
74FCT162501ATPVCT	296-14460-2-ND	18-Bit Registered Transceiver	56-SSOP	943.00/1,000		
74FCT162501CTPVCT	296-12620-5-ND	18-Bit Registered Transceiver	56-SSOP	2.17	1.75	1.58
74FCT162543ATPACT	296-23191-1-ND	16-Bit Latched Transceiver	56-TSSOP	5.25	4.29	3.85
74FCT162543ATPACT	296-23191-2-ND	16-Bit Latched Transceiver	56-TSSOP	4656.00/2,000		
74FCT162652ATPVCT	296-23192-1-ND	16-Bit Registered Transceiver	56-SSOP	3.45	2.82	2.53
74FCT162652ATPVCT	296-23192-2-ND	16-Bit Registered Transceiver	56-SSOP	1610.00/1,000		
74FCT162652CTPACT	296-23193-1-ND	16-Bit Registered Transceiver	56-TSSOP	3.45	2.82	2.53
74FCT162652CTPACT	296-23193-2-ND	16-Bit Registered Transceiver	56-TSSOP	3060.00/2,000		
CD74FCT244M	296-9413-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.09	.88	.77
CD74FCT245E	296-9414-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.00	.81	.71
CD74FCT245M	296-9415-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.09	.88	.77
CD74FCT374M	296-9416-5-ND	Tri-State D-Type Flip-Flop	20-SOIC	1.34	1.08	.95
CD74FCT623M	296-9419-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	6.38	5.23	4.72
CD74FCT843AM	296-9420-5-ND	Tri-State D-Type Latch	24-SOIC	8.00	6.56	5.92
CY29FCT52CTQCT	296-18408-1-ND	8-Bit Registered Transceiver	24-QSOP	6.00	4.90	4.40
CY29FCT52CTQCT	296-18408-2-ND	8-Bit Registered Transceiver	24-QSOP	6650.00/2,500		
CY29FCT520ATSOCT	296-14562-1-ND	Tri-State Multilevel Pipeline Register	24-SOIC	7.55	6.27	5.70
CY29FCT520ATSOCT	296-14562-2-ND	Tri-State Multilevel Pipeline Register	24-SOIC	7410.00/2,000		
CY74FCT138ATQCT	296-14563-1-ND	1-of-8 Decoder	16-QSOP	1.93	1.49	1.35
CY74FCT138ATQCT	296-14563-2-ND	1-of-8 Decoder	16-QSOP	1857.50/2,500		
CY74FCT138TQCT	296-23211-1-ND	1-of-8 Decoder	16-QSOP	1.93	1.49	1.35
CY74FCT138TQCT	296-23211-2-ND	1-of-8 Decoder	16-QSOP	1857.50/2,500		
CY74FCT157CTQCT	296-12272-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	1.71	1.38	1.24
CY74FCT157CTSOC	296-9438-5-ND	Quad 2-Input Multiplexer	16-SOIC	1.51	1.21	1.06
CY74FCT163CTQCT	296-14565-1-ND	4-Bit Binary Counter	16-QSOP	2.45	1.89	1.72
CY74FCT163CTQCT	296-14565-2-ND	4-Bit Binary Counter	16-QSOP	2362.50/2,500		
CY74FCT240TQCT	296-14570-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT240TQCT	296-14570-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT244ATQCT	296-13854-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.06	.83	.73
CY74FCT244ATQCT	296-13854-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	877.50/2,500		
CY74FCT244ATSOCT	296-14571-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	1.41	1.11	1.00
CY74FCT244CTQCT	296-14006-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT244CTQCT	296-14006-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT244TSOCT	296-14573-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	1.41	1.11	1.00
CY74FCT244TSOCT	296-14573-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	1036.00/2,000		
CY74FCT245ATPC	296-14574-5-ND	Tri-State 8-Bit Transceiver	20-Dip	1.09	.88	.77
CY74FCT245ATSOC	296-26041-5-ND	Tri-State 8-Bit Transceiver* ***NEW!***	20-SOIC	.96	.75	.65
CY74FCT245ATSOCT	296-23213-1-ND	Tri-State 8-Bit Transceiver	20-SOIC	1.06	.82	.72
CY74FCT245ATSOCT	296-23213-2-ND	Tri-State 8-Bit Transceiver	20-SOIC	696.00/2,000		
CY74FCT245ATQCT	296-14575-1-ND	Tri-State 8-Bit Transceiver	20-QSOP	1.00	.80	.72
CY74FCT245ATQCT	296-14575-2-ND	Tri-State 8-Bit Transceiver	20-QSOP	925.00/2,500		
CY74FCT245CTQCT	296-23214-1-ND	Tri-State 8-Bit Transceiver	20-QSOP	1.49	1.18	1.06
CY74FCT245CTQCT	296-23214-2-ND	Tri-State 8-Bit Transceiver	20-QSOP	1372.50/2,500		
CY74FCT245TQCT	296-9441-1-ND	Tri-State 8-Bit Transceiver	20-QSOP	1.06	.83	.73
CY74FCT245TQCT	296-9441-2-ND	Tri-State 8-Bit Transceiver	20-QSOP	877.50/2,500		
CY74FCT257ATQCT	296-13620-1-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	1.49	1.18	1.06
CY74FCT257ATQCT	296-13620-2-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	1372.50/2,500		
CY74FCT373ATQCT	296-14576-1-ND	Tri-State 8-Bit Latch	20-QSOP	1.49	1.18	1.06
CY74FCT373ATQCT	296-14576-2-ND	Tri-State 8-Bit Latch	20-QSOP	1372.50/2,500		
CY74FCT374ATQCT	296-14577-1-ND	Tri-State 8-Bit Register	20-QSOP	1.49	1.18	1.06
CY74FCT374ATQCT	296-14577-2-ND	Tri-State 8-Bit Register	20-QSOP	1372.50/2,500		
CY74FCT374TQCT	296-9442-1-ND	Tri-State 8-Bit Register	20-QSOP	1.49	1.18	1.06
CY74FCT374TQCT	296-9442-2-ND	Tri-State 8-Bit Register	20-QSOP	1372.50/2,500		
CY74FCT399CTSOCT	296-13007-1-ND	Quad 2-Input Register	16-SOIC	1.93	1.49	1.35
CY74FCT399CTSOCT	296-13007-2-ND	Quad 2-Input Register	16-SOIC	1486.00/2,000		
CY74FCT540CTQCT	296-13855-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.41	1.11	1.00
CY74FCT540CTQCT	296-13855-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1295.00/2,500		
CY74FCT541ATPC	296-14578-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-Dip	1.00	.81	.71
CY74FCT541ATQCT	296-13699-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT541ATQCT	296-13699-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT541CTQCT	296-12629-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT541CTQCT	296-12629-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT541CTSOCT	296-12274-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	1.41	1.11	1.00
CY74FCT541CTSOCT	296-12274-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	1036.00/2,000		
CY74FCT541TQCT	296-18409-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT541TQCT	296-18409-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT543ATQCT	296-14579-1-ND	Tri-State 8-Bit Latched Transceiver	24-QSOP	1.49	1.18	1.06
CY74FCT543ATQCT	296-14579-2-ND	Tri-State 8-Bit Latched Transceiver	24-QSOP	1372.50/2,500		
CY74FCT574ATQCT	296-14580-1-ND	Tri-State 8-Bit Register	20-QSOP	1.49	1.18	1.06
CY74FCT574ATQCT	296-14580-2-ND	Tri-State 8-Bit Register	20-QSOP	1372.50/2,500		
CY74FCT646ATQCT	296-14582-1-ND	Tri-State 8-Bit Registered Transceiver.	24-QSOP	1.49	1.18	1.06
CY74FCT646ATQCT	296-14582-2-ND	Tri-State 8-Bit Registered Transceiver.	24-QSOP	1372.50/2,500		
CY74FCT646ATSOCT	296-23217-1-ND	Tri-State 8-Bit Registered Transceiver	24-SOIC	1.41	1.11	1.00
CY74FCT646ATSOCT	296-23217-2-ND	Tri-State 8-Bit Registered Transceiver	24-SOIC	1036.00/2,000		
CY74FCT821ATQCT	296-14583-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-QSOP	1.49	1.18	1.06
CY74FCT821ATQCT	296-14583-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-QSOP	1372.50/2,500		
CY74FCT821BTPC	296-14584-5-ND	Tri-State 10-Bit Bus Interface Register	24-Dip	1.00	.81	.71
CY74FCT827ATSOC	296-9443-5-ND	Tri-State 10-Bit Buffer	24-SOIC	.92	.74	.65
CY74FCT827CTQCT	296-15180-1-ND	Tri-State 10-Bit Buffer	24-QSOP	1.49	1.18	1.06
CY74FCT827CTQCT	296-15180-2-ND	Tri-State 10-Bit Buffer	24-QSOP	1372.50/2,500		
CY74FCT827CTSOCT	296-12845-1-ND	Tri-State 10-Bit Buffer	24-SOIC	1.41	1.11	1.00
CY74FCT827CTSOCT	296-12845-2-ND	Tri-State 10-Bit Buffer	24-SOIC	1036.00/2,000		
CY74FCT841CTQCT	296-23386-1-ND	Tri-State 10-Bit Latch	24-QSOP	1.93	1.49	1.35
CY74FCT841CTQCT	296-23386-2-ND	Tri-State 10-Bit Latch	24-QSOP	1857.50/2,500		
CY74FCT2244ATQCT	296-14566-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	.79	.62	.54
CY74FCT2244ATQCT	296-14566-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	652.50/2,500		
CY74FCT2244CTQCT	296-14567-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT2244CTQCT	296-14567-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT2245ATQCT	296-12974-1-ND	Tri-State Octal Bus Transceiver	20-QSOP	.97	.75	.66
CY74FCT2245ATQCT	296-12974-2-ND	Tri-State Octal Bus Transceiver	20-QSOP	797.50/2,500		
CY74FCT2245TSOCT	296-14568-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.88	.68	.60
CY74FCT2245TSOCT	296-14568-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	580.00/2,000		
CY74FCT2245TSOC	296-9439-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.75	.65
CY74FCT2257ATQCT	296-14005-1-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	3.00	2.45	2.20
CY74FCT2257ATQCT	296-14005-2-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	3325.00/2,500		
CY74FCT2373CTSOC	296-12975-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.88	.69	.60
CY74FCT2541ATQCT	296-14007-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1.49	1.18	1.06
CY74FCT2541ATQCT	296-14007-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-QSOP	1372.50/2,500		
CY74FCT2543ATQCT	296-24978-1-ND	Tri-State 8-Bit Latched Transceiver* ***NEW!***	24-QSOP	1.49	1.18	1.06
CY74FCT2543ATQCT	296-24978-2-ND	Tri-State 8-Bit Latched Transceiver* ***NEW!***	24-QSOP	1372.50/2,500		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY74FCT2573ATQCT	296-23215-1-ND	Tri-State 8-Bit Latch	20-QSOP	1.82	1.44	1.30
CY74FCT2573ATQCT	296-23215-2-ND	Tri-State 8-Bit Latch	20-QSOP	1680.00/2,500		
CY74FCT2574ATQCT	296-13635-1-ND	Tri-State HS, LP, Octal D-Type Flip-Flop	20-QSOP	1.06	.83	.73
CY74FCT2574ATQCT	296-13635-2-ND	Tri-State HS, LP, Octal D-Type Flip-Flop	20-QSOP	877.50/2,500		
CY74FCT2652ATQCT	296-13698-1-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	4.05	3.31	2.97
CY74FCT2652ATQCT	296-13698-2-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	4490.00/2,500		
CY74FCT2827ATQCT	296-14166-1-ND	Tri-State 10-Bit Buffer	24-QSOP	3.45	2.82	2.53
CY74FCT2827ATQCT	296-14166-2-ND	Tri-State 10-Bit Buffer	24-QSOP	3825.00/2,500		
CY74FCT16244ATPACT	296-14306-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.45	1.89	1.72
CY74FCT16244ATPACT	296-14306-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1890.00/2,000		
CY74FCT16244CTPACT	296-23212-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.45	1.89	1.72
CY74FCT16244CTPACT	296-23212-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1890.00/2,000		
CY74FCT16244CTPVC	296-24186-5-ND	16-Bit Buffer/Line Driver* ***NEW!***	48-SSOP	1.86	1.50	1.35
CY74FCT16245ATPACT	296-16761-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.45	1.89	1.72
CY74FCT16245ATPACT	296-16761-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1890.00/2,000		
CY74FCT16373CTPACT	296-13619-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	2.45	1.89	1.72
CY74FCT16373CTPACT	296-13619-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-TSSOP	1890.00/2,000		
CY74FCT16373CTPVC	296-12687-5-ND	Tri-State 16-Bit Transparent D-Type Latch Flip-Flop	48-SSOP	1.86	1.50	1.35
CY74FCT16374CTPACT	296-12688-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	2.45	1.89	1.72
CY74FCT16374CTPACT	296-12688-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1890.00/2,000		
CY74FCT16374TPVC	296-12273-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.71	1.38	1.24
CY74FCT16543ATPACT	296-12973-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	2.98	2.30	2.09
CY74FCT16543ATPACT	296-12973-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	2296.00/2,000		
CY74FCT16827CTPACT	296-15309-1-ND	20-Bit Buffer/Line Driver	56-TSSOP	3.75	3.07	2.75
CY74FCT16827CTPACT	296-15309-2-ND	20-Bit Buffer/Line Driver	56-TSSOP	3326.00/2,000		
CY74FCT162244TPVCT	296-14564-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.93	1.49	1.35
CY74FCT162244TPVCT	296-14564-2-ND	16-Bit Buffer/Line Driver	48-SSOP	798.00/1,000		
CY74FCT162245CTPVC	296-12551-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.02	1.63	1.47
Future Bus Family						
SN74FB2031RC	296-1560-5-ND	9-Bit Address/Data Transceiver	52-QFP	18.70	15.73	14.45
SN74FB2033ARC	296-1561-5-ND	8-Bit Transceiver	52-QFP	13.31	11.20	10.29
SN74FB2033KRC	296-3605-ND	8-Bit TTL/BTL Registered Transceiver	52-QFP	16.39	13.79	12.67
SN74FB2040RC	296-3606-ND	8-Bit TTL/BTL Transceiver	52-QFP	20.13	16.93	15.56
SN74FB2041ARC	296-3607-ND	7-Bit TTL/BTL Transceiver	52-QFP	20.13	16.93	15.56
GTL Family						
SN74GTL1655DGGR	296-1184-1-ND	16-Bit Universal Bus Transceiver	64-TSSOP	14.03	11.90	10.98
SN74GTL1655DGGR	296-1184-2-ND	16-Bit Universal Bus Transceiver	64-TSSOP	15556.00/2,000		
SN74GTL2006PWR	296-17670-1-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	2.63	2.03	1.84
SN74GTL2006PWR	296-17670-2-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	2025.00/2,000		
SN74GTL2010PWR	296-21026-1-ND	10-Bit Voltage Clamp	24-TSSOP	2.28	1.76	1.60
SN74GTL2010PWR	296-21026-2-ND	10-Bit Voltage Clamp	24-TSSOP	1755.00/2,000		
SN74GTL2107PWR	296-21322-1-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	2.63	2.03	1.84
SN74GTL2107PWR	296-21322-2-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	2025.00/2,000		
SN74GTL16612DGGR	296-9808-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	10.60	8.80	8.00
SN74GTL16612DGGR	296-9808-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	10400.00/2,000		
SN74GTL16612DL	296-9809-5-ND	18-Bit Universal Bus Transceiver	56-SSOP	11.33	9.53	8.76
SN74GTL16616DGGR	296-1185-1-ND	17-Bit Universal Bus Transceiver	56-TSSOP	13.11	11.12	10.26
SN74GTL16616DGGR	296-1185-2-ND	17-Bit Universal Bus Transceiver	56-TSSOP	14536.00/2,000		
SN74GTL16616DLR	296-9810-1-ND	17-Bit Universal Bus Transceiver	56-SSOP	14.49	12.29	11.34
SN74GTL16616DLR	296-9810-2-ND	17-Bit Universal Bus Transceiver	56-SSOP	8379.00/1,000		
SN74GTL16622ADGGR	296-1186-1-ND	18-Bit Bus Transceiver	64-TSSOP	15.07	12.78	11.79
SN74GTL16622ADGGR	296-1186-2-ND	18-Bit Bus Transceiver	64-TSSOP	16702.00/2,000		
SN74GTL16923DGGR	296-9811-1-ND	18-Bit Universal Bus Transceiver	64-TSSOP	14.84	12.58	11.61
SN74GTL16923DGGR	296-9811-2-ND	18-Bit Universal Bus Transceiver	64-TSSOP	16448.00/2,000		
GTLP Family						
SN74GTLP817DGVR	296-13205-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	5.25	4.29	3.85
SN74GTLP817DGVR	296-13205-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	4656.00/2,000		
SN74GTLP817DWR	296-12338-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	5.25	4.29	3.85
SN74GTLP817DWR	296-12338-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	4655.00/2,000		
SN74GTLP817PWR	296-12339-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	5.25	4.29	3.85
SN74GTLP817PWR	296-12339-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	4655.00/2,000		
SN74GTLP1394DGVR	296-9812-1-ND	2-Bit Bus Transceiver	16-TVSOP	3.45	2.82	2.53
SN74GTLP1394DGVR	296-9812-2-ND	2-Bit Bus Transceiver	16-TVSOP	3059.00/2,000		
SN74GTLP1394DR	296-9813-1-ND	2-Bit Bus Transceiver	16-SOIC	3.45	2.82	2.53
SN74GTLP1394DR	296-9813-2-ND	2-Bit Bus Transceiver	16-SOIC	3823.75/2,500		
SN74GTLP1394PWR	296-9814-1-ND	2-Bit Bus Transceiver	16-TSSOP	3.45	2.82	2.53
SN74GTLP1394PWR	296-9814-2-ND	2-Bit Bus Transceiver	16-TSSOP	3060.00/2,000		
SN74GTLP1395DWR	296-12466-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	4.50	3.68	3.30
SN74GTLP1395DWR	296-12466-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	3990.00/2,000		
SN74GTLP1395GQNR	296-13189-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-BGA	6.75	5.52	4.95
SN74GTLP1395GQNR	296-13189-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-BGA	3150.00/1,000		
SN74GRLP1395PWR	296-12467-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	4.50	3.68	3.30
SN74GRLP1395PWR	296-12467-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	3990.00/2,000		
SN74GTLP2033DGGR	296-12468-1-ND	8-Bit LVTTL-to-GTLP Registered Xcvr.	48-TSSOP	8.75	7.26	6.60
SN74GTLP2033DGGR	296-12468-2-ND	8-Bit LVTTL-to-GTLP Registered Xcvr.	48-TSSOP	8580.00/2,000		
SN74GTLP2033DGVR	296-12469-1-ND	8-Bit LVTTL-to-GTLP Registered Xcvr.	48-TVSOP	8.75	7.26	6.60
SN74GTLP2033DGVR	296-12469-2-ND	8-Bit LVTTL-to-GTLP Registered Xcvr.	48-TVSOP	8580.00/2,000		
SN74GTLP2034DGGR	296-13191-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. with Split LVTTL Port	48-TSSOP	8.75	7.26	6.60
SN74GTLP2034DGGR	296-13191-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. with Split LVTTL Port	48-TSSOP	8580.00/2,000		
SN74GTLP2034DGVR	296-13192-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. w/Split LVTTL Port	48-TVSOP	8.75	7.26	6.60
SN74GTLP2034DGVR	296-13192-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. w/Split LVTTL Port	48-TVSOP	8580.00/2,000		
SN74GTLP2034GQLR	296-13193-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. w/Split LVTTL Port	56-BGA	13.12	10.89	9.90
SN74GTLP2034GQLR	296-13193-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Xcvr. w/Split LVTTL Port	56-BGA	6683.00/1,000		
SN74GTLP22033DGGR	296-13199-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Xcvr. w/ Split LVTTL Port	48-TSSOP	8.75	7.26	6.60

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLP22033DGGR	296-13199-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Xcvr. w/ Split LVTTL Port	48-TSSOP	8580.00/2,000		
SN74GTLP22033DGVR	296-13200-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Xcvr. w/ Split LVTTL Port	48-TVSOP	8.75	7.26	6.60
SN74GTLP22033DGVR	296-13200-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Xcvr. w/Split LVTTL Port	48-TVSOP	8580.00/2,000		
SN74GTLP22034DGGR	296-13202-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	8.75	7.26	6.60
SN74GTLP22034DGGR	296-13202-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	8580.00/2,000		
SN74GTLP22034DGVR	296-13203-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	8.75	7.26	6.60
SN74GTLP22034DGVR	296-13203-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	8580.00/2,000		
SN74GTLP22034GQLR	296-13204-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	56-BGA	13.12	10.89	9.90
GTLPH Family						
SN74GTLPH306DGVR	296-13212-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	5.40	4.41	3.96
SN74GTLPH306DGVR	296-13212-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	4788.00/2,000		
SN74GTLPH306DWR	296-12341-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	5.40	4.41	3.96
SN74GTLPH306DWR	296-12341-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	4788.00/2,000		
SN74GTLPH1616DGGR	296-11932-1-ND	17-Bit Universal Bus Transceiver	64-TSSOP	11.73	9.95	9.18
SN74GTLPH1616DGGR	296-11932-2-ND	17-Bit Universal Bus Transceiver	64-TSSOP	13005.00/2,000		
SN74GTLPH1627DGGR	296-15555-1-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	11.93	9.90	9.00
SN74GTLPH1627DGGR	296-15555-2-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	11700.00/2,000		
SN74GTLPH1645DGGR	296-12470-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	6.30	5.15	4.62
SN74GTLPH1645DGGR	296-12470-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	5586.00/2,000		
SN74GTLPH1645DGVR	296-12471-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	6.30	5.15	4.62
SN74GTLPH1645DGVR	296-12471-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	5586.00/2,000		
SN74GTLPH1645GQLR	296-12663-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-BGA	8.35	6.93	6.30
SN74GTLPH1645GQLR	296-12663-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-BGA	4253.00/1,000		
SN74GTLPH1655DGGR	296-12340-1-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	11.26	9.35	8.50
SN74GTLPH1655DGGR	296-12340-2-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	11050.00/2,000		
SN74GTLPH3245GKFR	296-13213-1-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	8.48	7.04	6.40
SN74GTLPH3245GKFR	296-13213-2-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	4320.00/1,000		
SN74GTLPH16612DLR	296-9815-1-ND	18-Bit Universal Bus Transceiver	56-SSOP	10.73	8.91	8.10
SN74GTLPH16612DLR	296-9815-2-ND	18-Bit Universal Bus Transceiver	56-SSOP	5468.00/1,000		
SN74GTLPH16612GR	296-9816-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	9.81	8.14	7.40
SN74GTLPH16612GR	296-9816-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	9620.00/2,000		
SN74GTLPH16912GR	296-13207-1-ND	18-Bit LVTTL-GTLP Univ. Bus Xcvr.	56-TSSOP	9.28	7.70	7.00
SN74GTLPH16912GR	296-13207-2-ND	18-Bit LVTTL-GTLP Univ. Bus Xcvr.	56-TSSOP	9100.00/2,000		
SN74GTLPH16912VR	296-12256-1-ND	18-Bit LVTTL-GTLP Univ. Bus Xcvr.	56-TVSOP	9.28	7.70	7.00
SN74GTLPH16912VR	296-12256-2-ND	18-Bit LVTTL-GTLP Univ. Bus Xcvr.	56-TVSOP	9100.00/2,000		
SN74GTLPH16916GR	296-13208-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	11.13	9.24	8.40
SN74GTLPH16916GR	296-13208-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	10920.00/2,000		
SN74GTLPH16916VR	296-13209-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	11.13	9.24	8.40
SN74GTLPH16916VR	296-13209-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	10920.00/2,000		
SN74GTLPH16927GR	296-15556-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	11.13	9.24	8.40
SN74GTLPH16927GR	296-15556-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	10920.00/2,000		
SN74GTLPH16927KR	296-15557-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-BGA	14.49	12.29	11.34
SN74GTLPH16927KR	296-15557-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-BGA	8379.00/1,000		
SN74GTLPH16927VR	296-15558-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	11.13	9.24	8.40
SN74GTLPH16927VR	296-15558-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	10920.00/2,000		
SN74GTLPH16945GR	296-13210-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	6.60	5.39	4.84
SN74GTLPH16945GR	296-13210-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	5852.00/2,000		
SN74GTLPH16945VR	296-13211-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	6.60	5.39	4.84
SN74GTLPH16945VR	296-13211-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	5852.00/2,000		
SN74GTLPH32912KR	296-15559-1-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	13.80	11.70	10.80
SN74GTLPH32912KR	296-15559-2-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	7980.00/1,000		
SN74GTLPH32916KR	296-15560-1-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	13.80	11.70	10.80
SN74GTLPH32916KR	296-15560-2-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	7980.00/1,000		
SN74GTLPH32945KR	296-12472-1-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	7.16	5.94	5.40
SN74GTLPH32945KR	296-12472-2-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	3645.00/1,000		
HC Family						
CD74HC00E	296-12769-5-ND	Quad 2-Input NAND Gate	14-Dip	.63	.47	.40
CD74HC00M	296-9167-5-ND	Quad 2-Input NAND Gate	14-SOIC	.68	.51	.44
CD74HC00M96	296-14504-1-ND	Quad 2-Input NAND Gate	14-SOIC	.66	.47	.40
CD74HC00M96	296-14504-2-ND	Quad 2-Input NAND Gate	14-SOIC	465.00/2,500		
CD74HC02E	296-12770-5-ND	High Speed, Quad 2-Input NOR Gate	14-Dip	.63	.47	.40
CD74HC02M	296-25968-5-ND	HS, Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	.68	.51	.44
CD74HC03M96	296-12771-1-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	.66	.47	.40
CD74HC03M96	296-12771-2-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	465.00/2,500		
CD74HC04E	296-12772-5-ND	High Speed, CMOS Logic Hex Inverter	14-Dip	.63	.47	.40
CD74HC04M	296-17318-5-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.68	.51	.44
CD74HC04M96	296-14505-1-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.66	.47	.40
CD74HC04M96	296-14505-2-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	465.00/2,500		
CD74HC08E	296-12773-5-ND	High Speed, Quad 2-Input AND Gate	14-Dip	.63	.47	.40
CD74HC08M	296-9169-5-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.68	.51	.44
CD74HC08M96	296-14506-1-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.66	.47	.40
CD74HC08M96	296-14506-2-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	465.00/2,500		
CD74HC08QM96EP	296-22100-1-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	2.35	1.81	1.65
CD74HC08QM96EP	296-22100-2-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	2261.25/2,500		
CD74HC08QM96Q1	296-24700-1-ND	Quad 2-Input Pos-AND Gate* ***NEW!***	14-SOIC	.76	.54	.46
CD74HC08QM96Q1	296-24700-2-ND	Quad 2-Input Pos-AND Gate* ***NEW!***	14-SOIC	535.00/2,500		

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TEXAS INSTRUMENTS **DigiReel®** *(Cont.)*

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC10E	296-12774-5-ND	Triple 3-Input NAND Gate	14-Dip	.63	.47	.40
CD74HC10M	296-12775-5-ND	Triple 3-Input NAND Gate	14-SOIC	.68	.51	.44
CD74HC11M	296-9170-5-ND	Triple 3-Input AND Gate	14-SOIC	.68	.51	.44
CD74HC14E	296-12786-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.63	.47	.40
CD74HC14M	296-9179-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.68	.51	.44
CD74HC14M96	296-9179-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.66	.47	.40
CD74HC14M96	296-9179-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	465.00/2,500		
CD74HC21M	296-9186-5-ND	Dual 4-Input AND Gate	14-SOIC	.57	.42	.36
CD74HC27E	296-12802-5-ND	High Speed Triple 3-Input NOR Gate	14-Dip	.63	.47	.40
CD74HC30E	296-9196-5-ND	8-Input NAND Gate	14-Dip	.50	.34	.27
CD74HC30M	296-9197-5-ND	8-Input NAND Gate	14-SOIC	.55	.37	.30
CD74HC30M96	296-14521-1-ND	8-Input NAND Gate	14-SOIC	.51	.34	.28
CD74HC30M96	296-14521-2-ND	8-Input NAND Gate	14-SOIC	290.00/2,500		
CD74HC32E	296-12803-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-Dip	.63	.47	.40
CD74HC32M	296-12804-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.68	.51	.44
CD74HC32M96	296-14522-1-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.66	.47	.40
CD74HC32M96	296-14522-2-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	465.00/2,500		
CD74HC73E	296-26013-5-ND	Dual J-K Flip-Flop with Reset* ***NEW!***	14-Dip	.66	.52	.45
CD74HC73M	296-26014-5-ND	Dual J-K Flip-Flop with Reset* ***NEW!***	14-SOIC	.60	.47	.41
CD74HC73M96	296-14540-1-ND	Dual J-K Flip-Flop with Reset	14-SOIC	.66	.51	.45
CD74HC73M96	296-14540-2-ND	Dual J-K Flip-Flop with Reset	14-SOIC	545.00/2,500		
CD74HC74E	296-12819-5-ND	Dual D-Type Flip-Flop	14-Dip	.63	.47	.40
CD74HC74M	296-12820-5-ND	Dual D-Type Flip-Flop	14-SOIC	.68	.51	.44
CD74HC74M96	296-14541-1-ND	Dual D-Type Flip-Flop	14-SOIC	.66	.47	.40
CD74HC74M96	296-14541-2-ND	Dual D-Type Flip-Flop	14-SOIC	465.00/2,500		
CD74HC75E	296-9240-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.91	.73	.64
CD74HC85E	296-12821-5-ND	4-Bit, HS, Magnitude Comparator	16-Dip	1.23	.99	.86
CD74HC85M	296-9242-5-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	1.13	.91	.80
CD74HC85M96	296-9242-1-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	1.03	.81	.73
CD74HC85M96	296-9242-2-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	945.00/2,500		
CD74HC86E	296-12822-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.70	.55	.48
CD74HC93M96	296-9243-1-ND	4-Bit Binary Ripple Counter	14-SOIC	1.60	1.26	1.14
CD74HC93M96	296-9243-2-ND	4-Bit Binary Ripple Counter	14-SOIC	1470.00/2,500		
CD74HC107M	296-25969-5-ND	Dual, Negative, J-K Flip-Flop with Reset* ***NEW!***	14-SOIC	.96	.75	.65
CD74HC109M	296-25970-5-ND	Dual, Positive, J-K Flip-Flop with Set and Reset* ***NEW!***	16-SOIC	.77	.60	.52
CD74HC112E	296-12776-5-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-Dip	.70	.55	.48
CD74HC112M96	296-12777-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	.70	.55	.48
CD74HC112M96	296-12777-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	580.00/2,500		
CD74HC112PWR	296-12778-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	.70	.55	.48
CD74HC112PWR	296-12778-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	464.00/2,000		
CD74HC123E	296-9171-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-Dip	.63	.47	.40
CD74HC123M	296-9172-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-SOIC	.68	.51	.44
CD74HC123M96	296-14508-1-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.66	.47	.40
CD74HC123M96	296-14508-2-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	465.00/2,500		
CD74HC123PWR	296-12780-1-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	.66	.47	.40
CD74HC123PWR	296-12780-2-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	372.00/2,000		
CD74HC125E	296-12781-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.70	.55	.48
CD74HC125M	296-9173-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.77	.60	.52
CD74HC125M96	296-14509-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.70	.55	.48
CD74HC125M96	296-14509-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	580.00/2,500		
CD74HC126E	296-12782-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.70	.55	.48
CD74HC126M	296-12783-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.77	.60	.52
CD74HC126M96	296-14510-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.70	.55	.48
CD74HC126M96	296-14510-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	580.00/2,500		
CD74HC132E	296-12784-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-Dip	.70	.55	.48
CD74HC132M	296-9175-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.77	.60	.52
CD74HC132M96	296-9175-1-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.70	.55	.48
CD74HC132M96	296-9175-2-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	580.00/2,500		
CD74HC137E	296-9176-5-ND	3-8 Line Decoder/Demultiplexer, with Address Latch	16-Dip	.66	.52	.45
CD74HC138E	296-12785-5-ND	3-8 Line Decoder/Demultiplexer, Inverting/Non-Inverting	16-Dip	.70	.55	.48
CD74HC138M	296-9177-5-ND	3-8 Line Decoder/Demultiplexer, Inverting/Non-Inverting	16-SOIC	.64	.50	.44
CD74HC139M	296-25972-5-ND	Dual 2-4 Line Decoder/ Demultiplexer* ***NEW!***	16-SOIC	.77	.60	.52
CD74HC139M96	296-14512-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.70	.55	.48
CD74HC139M96	296-14512-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	580.00/2,500		
CD74HC147E	296-14513-5-ND	10-4 Line Priority Encoder	16-Dip	.68	.53	.46
CD74HC151E	296-25973-5-ND	HS CMOS Logic 8-Input Mux* ***NEW!***	16-Dip	.70	.55	.48
CD74HC151M96	296-12787-1-ND	HS CMOS Logic 8-Input Multiplexer	16-SOIC	.70	.55	.48
CD74HC151M96	296-12787-2-ND	HS CMOS Logic 8-Input Multiplexer	16-SOIC	580.00/2,500		
CD74HC154EN	296-9181-5-ND	4-16 Line Decoder/Demultiplexer	24-Dip	.75	.58	.51
CD74HC154M	296-9182-5-ND	4-16 Line Decoder/Demultiplexer	24-SOIC	.82	.64	.56
CD74HC154M96	296-24352-1-ND	4-16 Line Decoder/Demux* ***NEW!***	24-SOIC	.75	.58	.51
CD74HC154M96	296-24352-2-ND	4-16 Line Decoder/Demux* ***NEW!***	24-SOIC	494.00/2,000		
CD74HC161M	296-25974-5-ND	HS CMOS Logic Presettable Counter* ***NEW!***	16-SOIC	.77	.60	.52
CD74HC161M96	296-23206-1-ND	HS CMOS Logic Presettable Counter	16-SOIC	.70	.55	.48
CD74HC161M96	296-23206-2-ND	HS CMOS Logic Presettable Counter	16-SOIC	580.00/2,500		
CD74HC164E	296-12788-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.70	.55	.48
CD74HC164M	296-12789-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.77	.60	.52
CD74HC164M96	296-14514-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.70	.55	.48
CD74HC164M96	296-14514-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	580.00/2,500		
CD74HC165E	296-12790-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.70	.55	.48
CD74HC165M	296-12791-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.77	.60	.52
CD74HC165M96	296-25975-1-ND	8-Bit Parallel-In/Serial-Out Shift Register* ***NEW!***	16-SOIC	.70	.55	.48
CD74HC165M96	296-25975-2-ND	8-Bit Parallel-In/Serial-Out Shift Register* ***NEW!***	16-SOIC	580.00/2,500		
CD74HC166M	296-25976-5-ND	8-Bit Parallel-In/Serial-Out Shift Register* ***NEW!***	16-SOIC	.64	.50	.44
CD74HC173E	296-25977-5-ND	Tri-State Quad D-Type F/F* ***NEW!***	16-Dip	.63	.47	.40
CD74HC173PWR	296-12792-1-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	.66	.47	.40
CD74HC173PWR	296-12792-2-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	372.00/2,000		
CD74HC174E	296-14515-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.70	.55	.48
CD74HC190E	296-25978-5-ND	Presettable Sync. Up/Down Counter* ***NEW!***	16-Dip	1.39	1.11	.98
CD74HC192E	296-25979-5-ND	Presettable Sync. Up/Down Counter* ***NEW!***	16-Dip	.68	.53	.46
CD74HC192PWR	296-12793-1-ND	Presettable Synchronous 4-Bit Up/ Down Counters	16-TSSOP	.66	.51	.45
CD74HC192PWR	296-12793-2-ND	Presettable Synchronous 4-Bit Up/ Down Counters	16-TSSOP	435.00/2,000		
CD74HC194E	296-9183-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-Dip	.68	.51	.43
CD74HC194M	296-9185-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.62	.49	.43
CD74HC194PWR	296-12794-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	.72	.51	.43
CD74HC194PWR	296-12794-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	404.00/2,000		
CD74HC195M	296-25980-5-ND	4-Bit Parallel Access Register* ***NEW!***	16-SOIC	.92	.72	.63
CD74HC195PWR	296-12795-1-ND	4-Bit Parallel Access Register	16-TSSOP	1.01	.79	.69
CD74HC195PWR	296-12795-2-ND	4-Bit Parallel Access Register	16-TSSOP	667.00/2,000		
CD74HC221E	296-9187-5-ND	HS Dual Mono Multivibrator with Reset	16-Dip	.73	.57	.50
CD74HC221M	296-25981-5-ND	HS Dual Mono Multivibrator with Reset* ***NEW!***	16-SOIC	.79	.62	.54
CD74HC221M96	296-17789-1-ND	HS Dual Mono Multivibrator with Reset	16-SOIC	.73	.57	.50
CD74HC221M96	296-17789-2-ND	HS Dual Mono Multivibrator with Reset	16-SOIC	597.50/2,500		
CD74HC221PWR	296-12796-1-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	.73	.57	.50
CD74HC221PWR	296-12796-2-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	478.00/2,000		
CD74HC237M	296-25982-5-ND	3-8 Line Decoder Demux with Address Latches* ***NEW!***	16-SOIC	.77	.60	.52
CD74HC237M96	296-12797-1-ND	3-8 Line Decoder Demux with Address Latches	16-SOIC	.70	.55	.48
CD74HC237M96	296-12797-2-ND	3-8 Line Decoder Demux with Address Latches	16-SOIC	580.00/2,500		
CD74HC237PWR	296-13813-1-ND	3-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	.70	.55	.48
CD74HC237PWR	296-13813-2-ND	3-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	464.00/2,000		
CD74HC238E	296-25983-5-ND	3-8 Line Decoder Demux HS, CMOS Logic* ***NEW!***	16-Dip	.63	.47	.40
CD74HC238M	296-9188-5-ND	3-8 Line Decoder/Demux HS, Inverting/ Non-Inverting	16-SOIC	.57	.42	.36
CD74HC238M96	296-24353-1-ND	3-8 Line Decoder/Demux HS, Inverting/ Non-Inverting* ***NEW!***	16-SOIC	.66	.47	.40
CD74HC238M96	296-24353-2-ND	3-8 Line Decoder/Demux HS, Inverting/ Non-Inverting* ***NEW!***	16-SOIC	465.00/2,500		
CD74HC238PWR	296-13814-1-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	.66	.47	.40
CD74HC238PWR	296-13814-2-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	372.00/2,000		
CD74HC243M96	296-9189-1-ND	Tri-State Quad Bus Transceiver	14-SOIC	.79	.62	.54
CD74HC243M96	296-9189-2-ND	Tri-State Quad Bus Transceiver	14-SOIC	652.50/2,500		
CD74HC244E	296-12798-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.84	.65	.57
CD74HC244M	296-12799-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.59	.52
CD74HC244M96	296-14516-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.84	.65	.57
CD74HC244M96	296-14516-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	551.00/2,000		
CD74HC245E	296-12800-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.84	.65	.57
CD74HC245M	296-9421-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.91	.71	.62
CD74HC245M96	296-14517-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.84	.65	.57
CD74HC245M96	296-14517-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	551.00/2,000		
CD74HC259M	296-9192-5-ND	8-Bit Addressable Latch	16-SOIC	.91	.71	.62
CD74HC259M96	296-9192-1-ND	8-Bit Addressable Latch	16-SOIC	.84	.65	.57
CD74HC259M96	296-9192-2-ND	8-Bit Addressable Latch	16-SOIC	688.75/2,500		
CD74HC273E	296-12801-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.84	.65	.57
CD74HC273M	296-25984-5-ND	Octal D-Type Flip-Flop with Reset* ***NEW!***	20-SOIC	.91	.71	.62
CD74HC280M96	296-14518-1-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	.99	.78	.71
CD74HC280M96	296-14518-2-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	910.00/2,500		
CD74HC283E	296-14519-5-ND	4-Bit Binary Full Adder with Fast Carry	16-Dip	.78	.61	.53
CD74HC297E	296-9193-5-ND	Digital Phase-Locked-Loop	16-Dip	2.94	2.37	2.16
CD74HC299E	296-9194-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	1.00	.81	.71
CD74HC299M	296-9195-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.92	.74	.65
CD74HC299M96	296-14520-1-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.97	.75	.66
CD74HC299M96	296-14520-2-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	638.00/2,000		
CD74HC354E	296-9198-5-ND	Tri-State 8-Input Mux/Register	20-Dip	.95	.76	.67
CD74HC367M96	296-14523-1-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	.84	.65	.57
CD74HC367M96	296-14523-2-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	688.75/2,500		
CD74HC373E	296-12805-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.84	.65	.57
CD74HC373M	296-9422-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.91	.71	.62
CD74HC373M96	296-14524-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.84	.65	.57
CD74HC373M96	296-14524-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	551.00/2,000		
CD74HC374E	296-12806-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.84	.65	.57
CD74HC374M	296-12807-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.91	.71	.62
CD74HC374M96	296-14525-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.65	.57
CD74HC374M96	296-14525-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	551.00/2,000		
CD74HC390E	296-9199-5-ND	Dual Decade Ripple Counter	16-Dip	.73	.57	.50
CD74HC390M96	296-14526-1-ND	Dual Decade Ripple Counter	16-SOIC	.73	.57	.50
CD74HC390M96	296-14526-2-ND	Dual Decade Ripple Counter	16-SOIC	597.50/2,500		
CD74HC393E	296-25985-5-ND	Dual 4-Stage Binary Counter* ***NEW!***	14-Dip	.84	.65	.57
CD74HC393M	296-25986-5-ND	Dual 4-Stage Binary Counter* ***NEW!***	14-SOIC	.76	.59	.52
CD74HC423E	296-9229-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.76	.59	.52
CD74HC423M	296-26004-5-ND	Dual Retriggerable Monostable Multivibrator with Reset* ***NEW!***	16-SOIC	.68	.53	.46
CD74HC540E	296-12812-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.69	.60

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC541E	296-12813-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.69	.60
CD74HC541M	296-12814-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.96	.75	.65
CD74HC541M96	296-14538-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.88	.68	.60
CD74HC541M96	296-14538-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	580.00/2,000		
CD74HC564E	296-26009-5-ND	Tri-St. Octal D-Type Flip-Flop* ***NEW!***	20-Dip	.89	.71	.62
CD74HC573E	296-12815-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.69	.60
CD74HC573M	296-26010-5-ND	Tri-St. Octal Transparent D-Type Latch* ***NEW!***	20-SOIC	.96	.75	.65
CD74HC573M96	296-12816-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.88	.68	.60
CD74HC573M96	296-12816-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	580.00/2,000		
CD74HC574E	296-12817-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.88	.69	.60
CD74HC574M	296-12818-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65
CD74HC595DWR	296-18401-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.88	.68	.60
CD74HC595DWR	296-18401-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	580.00/2,000		
CD74HC595M96	296-18402-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.88	.68	.60
CD74HC595M96	296-18402-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	725.00/2,500		
CD74HC595NSR	296-18403-1-ND	Tri-State 8-Bit Shift Register	16-SOP	.97	.75	.66
CD74HC595NSR	296-18403-2-ND	Tri-State 8-Bit Shift Register	16-SOP	638.00/2,000		
CD74HC595SM96	296-18404-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.97	.75	.66
CD74HC595SM96	296-18404-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	638.00/2,000		
CD74HC597E	296-26011-5-ND	HS CMOS Logic 8-Bit Shift Register* ***NEW!***	16-Dip	1.59	1.28	1.12
CD74HC597M	296-26012-5-ND	HS CMOS Logic 8-Bit Shift Register* ***NEW!***	16-SOIC	1.47	1.18	1.03
CD74HC597M96	296-16704-1-ND	HS CMOS Logic 8-Bit Shift Register	16-SOIC	1.33	1.05	.95
CD74HC597M96	296-16704-2-ND	HS CMOS Logic 8-Bi Shift Register	16-SOIC	1225.00/2,500		
CD74HC652EN	296-14539-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	2.33	1.88	1.69
CD74HC670M96	296-9236-1-ND	HS CMOS Logic 4-by-4 Register File	16-SOIC	1.82	1.44	1.30
CD74HC670M96	296-9236-2-ND	HS CMOS Logic 4-by-4 Register File	16-SOIC	1680.00/2,500		
CD74HC4002E	296-25987-5-ND	HS CMOS Logic Dual 4-Input NOR Gate* ***NEW!***	14-Dip	.69	.51	.44
CD74HC4002M	296-25988-5-ND	HS CMOS Logic Dual 4-Input NOR Gate* ***NEW!***	14-SOIC	.63	.49	.43
CD74HC4016E	296-9204-5-ND	Quad Bilateral Switch	14-Dip	1.35	1.08	.95
CD74HC4016M96	296-9205-1-ND	Quad Bilateral Switch	14-SOIC	1.33	1.05	.95
CD74HC4016M96	296-9205-2-ND	Quad Bilateral Switch	14-SOIC	1225.00/2,500		
CD74HC4017E	296-25989-5-ND	HS Decade Counter/Divider* ***NEW!***	16-Dip	.62	.48	.42
CD74HC4017M	296-25990-5-ND	HS Decade Counter/Divider* ***NEW!***	16-SOIC	.67	.53	.46
CD74HC4017M96	296-12808-1-ND	High Speed Decade Counter/Divider	16-SOIC	.77	.54	.47
CD74HC4017M96	296-12808-2-ND	High Speed Decade Counter/Divider	16-SOIC	542.50/2,500		
CD74HC4017PWR	296-9423-1-ND	High Speed Decade Counter/Divider	16-TSSOP	.77	.54	.47
CD74HC4017PWR	296-9423-2-ND	High Speed Decade Counter/Divider	16-TSSOP	434.00/2,000		
CD74HC4017QM96EP	296-22102-1-ND	High Speed Decade Counter/Divider	16-SOIC	1.60	1.26	1.14
CD74HC4017QM96EP	296-22102-2-ND	High Speed Decade Counter/Divider	16-SOIC	1470.00/2,500		
CD74HC4017QPWREP	296-22103-1-ND	High Speed Decade Counter/Divider	16-TSSOP	1.60	1.26	1.14
CD74HC4017QPWREP	296-22103-2-ND	High Speed Decade Counter/Divider	16-TSSOP	1176.00/2,000		
CD74HC4020E	296-25991-5-ND	High Speed CMOS Logic 14-Stage Binary Counter* ***NEW!***	16-Dip	.62	.49	.43
CD74HC4020M	296-25992-5-ND	High Speed CMOS Logic 14-Stage Binary Counter* ***NEW!***	16-SOIC	.68	.51	.44
CD74HC4020M96	296-12809-1-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	.66	.47	.40
CD74HC4020M96	296-12809-2-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	465.00/2,500		
CD74HC4024E	296-9206-5-ND	7-Stage Binary Ripple Counter	14-Dip	.68	.53	.46
CD74HC4024M	296-9207-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.62	.49	.43
CD74HC4040E	296-25993-5-ND	High Speed CMOS Logic 12-Stage Binary Counter* ***NEW!***	16-Dip	.70	.55	.48
CD74HC4040M	296-25994-5-ND	High Speed CMOS Logic 12-Stage Binary Counter* ***NEW!***	16-SOIC	.77	.60	.52
CD74HC4046AE	296-9208-5-ND	Phase-Locked-Loop with VCO	16-Dip	.66	.52	.45
CD74HC4046AM	296-9209-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.72	.56	.49
CD74HC4046AM96	296-14528-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.66	.51	.45
CD74HC4046AM96	296-14528-2-ND	Phase-Locked-Loop with VCO	16-SOIC	543.75/2,500		
CD74HC4046APWR	296-9210-1-ND	Phase-Locked-Loop with VCO	16-TSSOP	.66	.51	.45
CD74HC4046APWR	296-9210-2-ND	Phase-Locked-Loop with VCO	16-TSSOP	436.00/2,000		
CD74HC4049E	296-9211-5-ND	Hex Inverting Buffer	16-Dip	.66	.52	.45
CD74HC4049M	296-9212-5-ND	Hex Inverting Buffer	16-SOIC	.72	.56	.49
CD74HC4049PWR	296-15717-1-ND	Hex Inverting Buffer	16-TSSOP	.66	.51	.45
CD74HC4049PWR	296-15717-2-ND	Hex Inverting Buffer	16-TSSOP	436.00/2,000		
CD74HC4050E	296-9213-5-ND	Hex Non-Inverting Buffer	16-Dip	.52	.39	.33
CD74HC4050M	296-9214-5-ND	Hex Non-Inverting Buffer	16-SOIC	.57	.42	.36
CD74HC4050M96	296-14529-1-ND	Hex Non-Inverting Buffer	16-SOIC	.55	.39	.33
CD74HC4050M96	296-14529-2-ND	Hex Non-Inverting Buffer	16-SOIC	387.50/2,500		
CD74HC4050NSR	296-23207-1-ND	Hex Non-Inverting Buffer	16-SOP	.61	.43	.37
CD74HC4050NSR	296-23207-2-ND	Hex Non-Inverting Buffer	16-SOP	342.00/2,000		
CD74HC4050PWR	296-9215-1-ND	Hex Non-Inverting Buffer	16-TSSOP	.55	.39	.33
CD74HC4050PWR	296-9215-2-ND	Hex Non-Inverting Buffer	16-TSSOP	310.00/2,000		
CD74HC4051E	296-12810-5-ND	HS CMOS Logic Analog Mux/Demux	16-Dip	.62	.49	.43
CD74HC4051M	296-9216-5-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.68	.51	.44
CD74HC4051M96	296-14530-1-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.66	.47	.40
CD74HC4051M96	296-14530-2-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	465.00/2,500		
CD74HC4051MM96EP	296-22105-1-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	2.17	1.68	1.52
CD74HC4051MM96EP	296-22105-2-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	2092.50/2,500		
CD74HC4051PWR	296-13031-1-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	.66	.47	.40
CD74HC4051PWR	296-13031-2-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	372.00/2,000		
CD74HC4051QM96G4Q1	296-24701-1-ND	Dual 8-Channel Mux/Demux* ***NEW!***	16-SOIC	.76	.54	.46
CD74HC4051QM96G4Q1	296-24701-2-ND	Dual 8-Channel Mux/Demux* ***NEW!***	16-SOIC	535.00/2,500		
CD74HC4052E	296-9217-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.63	.47	.40
CD74HC4052M	296-9218-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.68	.51	.44
CD74HC4052M96	296-14531-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.66	.47	.40
CD74HC4052M96	296-14531-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	465.00/2,500		
CD74HC4052PWR	296-17619-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.66	.47	.40
CD74HC4052PWR	296-17619-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	372.00/2,000		
CD74HC4053E	296-9219-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.62	.46	.39
CD74HC4053M	296-9220-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.57	.42	.36
CD74HC4053M96	296-14532-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.55	.39	.33
CD74HC4053M96	296-14532-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	387.50/2,500		
CD74HC4053PWR	296-12111-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.39	.33
CD74HC4053PWR	296-12111-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	310.00/2,000		
CD74HC4059M96	296-9221-1-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	3.47	2.68	2.43
CD74HC4059M96	296-9221-2-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2674.00/2,000		

TEXAS INSTRUMENTS Digi-Reel® (Cont.) DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC4060E	296-25998-5-ND	14-Stage Binary Counter with Oscillator* ***NEW!***	16-Dip	.63	.47	.40
CD74HC4060M	296-9222-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.68	.51	.44
CD74HC4060M96	296-25999-1-ND	14-Stage Binary Counter with Oscillator* ***NEW!***	16-SOIC	.66	.47	.40
CD74HC4060M96	296-25999-2-ND	14-Stage Binary Counter with Oscillator* ***NEW!***	16-SOIC	465.00/2,500		
CD74HC4060PW	296-26000-5-ND	14-Stage Binary Counter with Oscillator* ***NEW!***	16-TSSOP	.68	.51	.44
CD74HC4066E	296-14533-5-ND	Quad Bilateral Switch	14-Dip	.62	.49	.43
CD74HC4066M	296-9224-5-ND	Quad Bilateral Switch	14-SOIC	.68	.51	.44
CD74HC4066M96	296-9224-1-ND	Quad Bilateral Switch	14-SOIC	.66	.47	.40
CD74HC4060M96	296-9224-2-ND	Quad Bilateral Switch	14-SOIC	465.00/2,500		
CD74HC4066PW	296-26001-5-ND	Quad Bilateral Switch* ***NEW!***	14-TSSOP	.68	.51	.44
CD74HC4066PWR	296-16703-1-ND	HS CMOS Logic Quad Bilateral Switch	14-TSSOP	.66	.47	.40
CD74HC4066PWR	296-16703-2-ND	HS CMOS Logic Quad Bilateral Switch	14-TSSOP	372.00/2,000		
CD74HC4067M	296-9225-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.96	.75	.65
CD74HC4067SM96	296-9226-1-ND	16-Channel Analog Mux/Demux	24-SSOP	.97	.75	.66
CD74HC4067SM96	296-9226-2-ND	16-Channel Analog Mux/Demux	24-SSOP	638.00/2,000		
CD74HC4075M	296-9227-5-ND	Triple 3-Input OR Gate	14-SOIC	.57	.42	.36
CD74HC4075M96	296-14534-1-ND	Triple 3-Input OR Gate	14-SOIC	.66	.47	.40
CD74HC4075M96	296-14534-2-ND	Triple 3-Input OR Gate	14-SOIC	465.00/2,500		
CD74HC4075PWR	296-9228-1-ND	Triple 3-Input OR Gate	14-TSSOP	.72	.51	.43
CD74HC4075PWR	296-9228-2-ND	Triple 3-Input OR Gate	14-TSSOP	404.00/2,000		
CD74HC4094E	296-26002-5-ND	Tri-State 8-Stage Bus Register* ***NEW!***	16-Dip	.63	.47	.40
CD74HC4094M	296-14290-5-ND	Tri-State 8-Stage Bus Register	16-SOIC	.57	.42	.36
CD74HC4094M96	296-14535-1-ND	Tri-State 8-Stage Bus Register	16-SOIC	.66	.47	.40
CD74HC4094M96	296-14535-2-ND	Tri-State 8-Stage Bus Register	16-SOIC	465.00/2,500		
CD74HC4094PWR	296-26003-1-ND	Tri-State 8-Stage Bus Register* ***NEW!***	16-TSSOP	.66	.47	.40
CD74HC4094PWR	296-26003-2-ND	Tri-State 8-Stage Bus Register* ***NEW!***	16-TSSOP	372.00/2,000		
CD74HC4316M	296-9230-5-ND	Quad Analog Switch with Level Translation	16-SOIC	.86	.67	.59
CD74HC4351E	296-9231-5-ND	Analog Mux/Demux with Latch	20-Dip	1.31	1.05	.92
CD74HC4511E	296-14537-5-ND	BCD-to-7 Segment Latch/Decoder/Dvr.	16-Dip	.88	.69	.60
CD74HC4511M	296-9232-5-ND	BCD-to-7 Segment Latch/Decoder/Dvr.	16-SOIC	.96	.75	.65
CD74HC4511M96	296-24355-1-ND	BCD-to-7 Segment Latch/Decoder/Driver* ***NEW!***	16-SOIC	.88	.68	.60
CD74HC4511M96	296-24355-2-ND	BCD-to-7 Segment Latch/Decoder/Driver* ***NEW!***	16-SOIC	725.00/2,500		
CD74HC4511PWR	296-23208-1-ND	BCD-to-7 Segment Latch/Decoder/ Dvr.	16-TSSOP	.88	.68	.60
CD74HC4511PWR	296-23208-2-ND	BCD-to-7 Segment Latch/Decoder/ Dvr.	16-TSSOP	580.00/2,000		
CD74HC4515M	296-9233-5-ND	4-16 Line Decoder/Demux w/Input Latch	24-SOIC	2.94	2.37	2.16
CD74HC4515M96	296-24356-1-ND	4-16 Line Decoder/Demux w/Input Latch* ***NEW!***	24-SOIC	3.15	2.58	2.31
CD74HC4515M96	296-24356-2-ND	4-16 Line Decoder/Demux w/Input Latch* ***NEW!***	24-SOIC	2794.00/2,000		
CD74HC4520E	296-26005-5-ND	Dual Synchronous Counter* ***NEW!***	16-Dip	.73	.57	.50
CD74HC4538E	296-12811-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-Dip	.79	.62	.54
CD74HC4538M	296-9234-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	.86	.67	.59
CD74HC4538M96	296-26006-1-ND	Dual Retriggerable Precision Monostable Multivibrator* ***NEW!***	16-SOIC	.79	.62	.54
CD74HC4538M96	296-26006-2-ND	Dual Retriggerable Precision Monostable Multivibrator* ***NEW!***	16-SOIC	652.50/2,500		
CD74HC4538PWR	296-26008-1-ND	Dual Retriggerable Precision Monostable Multivibrator* ***NEW!***	16-TSSOP	.79	.62	.54
CD74HC4538PWR	296-26008-2-ND	Dual Retriggerable Precision Monostable Multivibrator* ***NEW!***	16-TSSOP	522.00/2,000		
CD74HC4538QM96G4Q1	296-23790-1-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	.91	.71	.63
CD74HC4538QM96G4Q1	296-23790-2-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	750.00/2,500		
CD74HC4538QPWRG4Q1	296-23700-1-ND	Dual Retriggerable Precision Monostable Multivibrator	16-TSSOP	.91	.71	.63
CD74HC4538QPWRG4Q1	296-23700-2-ND	Dual Retriggerable Precision Monostable Multivibrator	16-TSSOP	600.00/2,000		
CD74HC7046AE	296-9237-5-ND	PLL with VCO/Lock Detector	16-Dip	2.64	2.13	1.92
CD74HC7046AM	296-9238-5-ND	PLL with VCO/Lock Detector	16-SOIC	2.95	2.38	2.14
CD74HC7266M	296-9239-5-ND	Quad 2-Input Exclusive NOR Gate	14-SOIC	2.02	1.63	1.47
CD74HC40103E	296-9200-5-ND	8-Stage Synchronous Down Counter	16-Dip	1.37	1.10	.96
CD74HC40103M	296-9201-5-ND	8-Stage Synchronous Down Counter	16-SOIC	1.26	1.01	.89
CD74HC40103M96	296-24354-1-ND	8-Stage Sync. Down Counter* ***NEW!***	16-SOIC	1.14	.90	.81
CD74HC40103M96	296-24354-2-ND	8-Stage Sync. Down Counter* ***NEW!***	16-SOIC	1050.00/2,500		
CD74HC40103QM96EP	296-22101-1-ND	8-Stage Synchronous Down Counter	16-SOIC	2.84	2.19	1.99
CD74HC40103QM96EP	296-22101-2-ND	8-Stage Synchronous Down Counter	16-SOIC	2733.75/2,500		
CD74HC40105E	296-9202-5-ND	4-Bit by 16-Word FIFO Register	16-Dip	1.32	1.06	.93
CD74HC40105M96	296-9203-1-ND	4-Bit by 16-Word FIFO Register	16-SOIC	1.10	.87	.79
CD74HC40105M96	296-9203-2-ND	4-Bit by 16-Word FIFO Register	16-SOIC	1015.00/2,500		
SN74HC00D	296-1187-5-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.33	.28
SN74HC00DR	296-1187-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.37	.31
SN74HC00DR	296-1187-2-ND	Quad 2-Input NAND Gate	14-SOIC	317.50/2,500		
SN74HC00N	296-1563-5-ND	Quad 2-Input NAND Gate	14-Dip	.55	.37	.30
SN74HC00PWR	296-8203-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.56	.37	.31
SN74HC00PWR	296-8203-2-ND	Quad 2-Input NAND Gate	14-TSSOP	254.00/2,000		
SN74HC00QDRG4Q1	296-24746-1-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.65	.43	.35
SN74HC00QDRG4Q1	296-24746-2-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	367.50/2,500		
SN74HC00QDRQ1	296-18232-1-ND	Quad 2-Input NAND Gate	14-SOIC	.65	.43	.35
SN74HC00QDRQ1	296-18232-2-ND	Quad 2-Input NAND Gate	14-SOIC	367.50/2,500		
SN74HC02D	296-1188-5-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.33	.28
SN74HC02DR	296-1188-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.37	.31
SN74HC02DR	296-1188-2-ND	Quad 2-Input NOR Gate	14-SOIC	317.50/2,500		
SN74HC02DBR	296-8204-1-ND	Quad 2-Input NOR Gate	14-SSOP	.62	.41	.34
SN74HC02DBR	296-8204-2-ND	Quad 2-Input NOR Gate	14-SSOP	280.00/2,000		
SN74HC02N	296-1564-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.37	.30
SN74HC02NSR	296-8205-1-ND	Quad 2-Input NOR Gate	14-SOP	.62	.41	.34
SN74HC02NSR	296-8205-2-ND	Quad 2-Input NOR Gate	14-SOP	280.00/2,000		

** RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC02PWR	296-8206-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.56	.37	.31
SN74HC02PWR	296-8206-2-ND	Quad 2-Input NOR Gate	14-TSSOP	254.00/2,000		
SN74HC02QDRQ1	296-24747-1-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	.65	.43	.35
SN74HC02QDRQ1	296-24747-2-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	367.50/2,500		
SN74HC02QPWREP	296-19505-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.92	.72	.63
SN74HC02QPWREP	296-19505-2-ND	Quad 2-Input NOR Gate	14-TSSOP	609.00/2,000		
SN74HC03D	296-9817-5-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.45	.34	.29
SN74HC03DR	296-14826-1-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.57	.38	.31
SN74HC03DR	296-14826-2-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	325.00/2,500		
SN74HC03N	296-8207-5-ND	Quad 2-In. NAND Gate with OD Output	14-Dip	.57	.38	.31
SN74HC04D	296-1189-5-ND	Hex Inverter	14-SOIC	.44	.33	.28
SN74HC04DBR	296-19247-1-ND	Hex Inverter	14-SSOP	.62	.41	.34
SN74HC04DBR	296-19247-2-ND	Hex Inverter	14-SSOP	280.00/2,000		
SN74HC04DR	296-1189-1-ND	Hex Inverter	14-SOIC	.56	.37	.31
SN74HC04DR	296-1189-2-ND	Hex Inverter	14-SOIC	317.50/2,500		
SN74HC04IPWRG4Q1	296-24325-1-ND	Hex Inverter* ***NEW!***	14-TSSOP	.62	.41	.34
SN74HC04IPWRG4Q1	296-24325-2-ND	Hex Inverter* ***NEW!***	14-TSSOP	280.00/2,000		
SN74HC04N	296-1566-5-ND	Hex Inverter	14-Dip	.55	.37	.30
SN74HC04NSR	296-12883-1-ND	Hex Inverter	14-SOP	.62	.41	.34
SN74HC04NSR	296-12883-2-ND	Hex Inverter	14-SOP	280.00/2,000		
SN74HC04PWR	296-8208-1-ND	Hex Inverter	14-TSSOP	.56	.37	.31
SN74HC04PWR	296-8208-2-ND	Hex Inverter	14-TSSOP	254.00/2,000		
SN74HC05D	296-1190-5-ND	Hex Inverter with OD	14-SOIC	.45	.34	.29
SN74HC05DR	296-1190-1-ND	Hex Inverter with OD	14-SOIC	.57	.38	.31
SN74HC05DR	296-1190-2-ND	Hex Inverter with OD	14-SOIC	325.00/2,500		
SN74HC05N	296-1568-5-ND	Hex Inverter with OD	14-Dip	.57	.38	.31
SN74HC08D	296-1191-5-ND	Quad 2-Input Positive-AND Gate	14-SOIC	.44	.33	.28
SN74HC08DR	296-1191-1-ND	Quad 2-Input Positve-AND Gate	14-SOIC	.56	.37	.31
SN74HC08DR	296-1191-2-ND	Quad 2-Input Positive-AND Gate	14-SOIC	317.50/2,500		
SN74HC08N	296-1570-5-ND	Quad 2-Input Positive-AND Gate	14-Dip	.55	.37	.30
SN74HC08NSR	296-12884-1-ND	Quad 2-Input Positive-AND Gate	14-SOP	.62	.41	.34
SN74HC08NSR	296-12884-2-ND	Quad 2-Input Positive-AND Gate	14-SOP	280.00/2,000		
SN74HC08PW	296-26459-5-ND	Quad 2-Input Pos.-AND Gate* ***NEW!***	14-TSSOP	.44	.33	.28
SN74HC08PWR	296-8210-1-ND	Quad 2-Input Positive-AND Gate	14-TSSOP	.56	.37	.31
SN74HC08PWR	296-8210-2-ND	Quad 2-Input Positive-AND Gate	14-TSSOP	254.00/2,000		
SN74HC08QDRG4Q1	296-24748-1-ND	Quad 2-Input Pos.-AND Gate* ***NEW!***	14-SOIC	.65	.43	.35
SN74HC08QDRG4Q1	296-24748-2-ND	Quad 2-Input Pos.-AND Gate* ***NEW!***	14-SOIC	367.50/2,500		
SN74HC08QPWRQ1	296-23612-1-ND	Quad 2-Input Positive-AND Gate	14-TSSOP	.65	.43	.35
SN74HC08QPWRQ1	296-23612-2-ND	Quad 2-Input Positive-AND Gate	14-TSSOP	294.00/2,000		
SN74HC10D	296-8213-5-ND	Triple 3-Input NAND Gate	14-SOIC	.44	.33	.28
SN74HC10DR	296-14828-1-ND	Triple 3-Input NAND Gate	14-SOIC	.56	.37	.31
SN74HC10DR	296-14828-2-ND	Triple 3-Input NAND Gate	14-SOIC	317.50/2,500		
SN74HC10N	296-8214-5-ND	Triple 3-Input NAND Gate	14-Dip	.55	.37	.30
SN74HC10QDREP	296-22295-1-ND	Triple 3-Input NAND Gate	14-SOIC	.92	.72	.63
SN74HC10QDREP	296-22295-2-ND	Triple 3-Input NAND Gate	14-SOIC	761.25/2,500		
SN74HC10QPWREP	296-22296-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.92	.72	.63
SN74HC10QPWREP	296-22296-2-ND	Triple 3-Input NAND Gate	14-TSSOP	609.00/2,000		
SN74HC10QPWRG4Q1	296-23852-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.65	.43	.35
SN74HC10QPWRG4Q1	296-23852-2-ND	Triple 3-Input NAND Gate	14-TSSOP	294.00/2,000		
SN74HC11D	296-8216-5-ND	Triple 3-Input Positive AND Gate	14-SOIC	.45	.34	.29
SN74HC11DR	296-14830-1-ND	Triple 3-Input Positive AND Gate	14-SOIC	.57	.38	.31
SN74HC11DR	296-14830-2-ND	Triple 3-Input Positive AND Gate	14-SOIC	325.00/2,500		
SN74HC11N	296-8217-5-ND	Triple 3-Input Positive AND Gate	14-Dip	.57	.38	.31
SN74HC11NSR	296-12885-1-ND	Triple 3-Input Positive AND Gate	14-SOP	.63	.42	.34
SN74HC11NSR	296-12885-2-ND	Triple 3-Input Positive AND Gate	14-SOP	288.00/2,000		
SN74HC11PWR	296-13611-1-ND	Triple 3-Input Positive AND Gate	14-TSSOP	.57	.38	.31
SN74HC11PWR	296-13611-2-ND	Triple 3-Input Positive AND Gate	14-TSSOP	260.00/2,000		
SN74HC14D	296-1194-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.44	.33	.28
SN74HC14DR	296-1194-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.56	.37	.31
SN74HC14DR	296-1194-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	317.50/2,500		
SN74HC14N	296-1577-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.55	.37	.30
SN74HC14NSR	296-12887-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.62	.41	.34
SN74HC14NSR	296-12887-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	280.00/2,000		
SN74HC14PWR	296-8234-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.56	.37	.31
SN74HC14PWR	296-8234-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	254.00/2,000		
SN74HC14QDRQ1	296-19248-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.65	.43	.35
SN74HC14QDRQ1	296-19248-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	367.50/2,500		
SN74HC14QPWRQ1	296-17530-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.65	.43	.35
SN74HC14QPWRQ1	296-17530-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	294.00/2,000		
SN74HC20DR	296-8263-1-ND	Dual 4-Input NAND Gate	14-SOIC	.57	.38	.31
SN74HC20DR	296-8263-2-ND	Dual 4-Input NAND Gate	14-SOIC	325.00/2,500		
SN74HC20N	296-12892-5-ND	Dual 4-Input NAND Gate	14-Dip	.57	.38	.31
SN74HC20NSR	296-12893-1-ND	Dual 4-Input NAND Gate	14-SOP	.63	.42	.34
SN74HC20NSR	296-12893-2-ND	Dual 4-Input NAND Gate	14-SOP	288.00/2,000		
SN74HC21D	296-8265-5-ND	Dual 4-Input Positive AND Gate	14-SOIC	.45	.34	.29
SN74HC21DR	296-14842-1-ND	Dual 4-Input Positive AND Gate	14-SOIC	.57	.38	.31
SN74HC21DR	296-14842-2-ND	Dual 4-Input Positive AND Gate	14-SOIC	325.00/2,500		
SN74HC21N	296-8266-5-ND	Dual 4-Input Positive AND Gate	14-Dip	.57	.38	.31
SN74HC21PW	296-26472-5-ND	Dual 4-Input Pos. AND Gate* ***NEW!***	14-TSSOP	.45	.34	.29
SN74HC21PWR	296-15846-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.57	.38	.31
SN74HC21PWR	296-15846-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	260.00/2,000		
SN74HC21QDRQ1	296-24750-1-ND	Dual 4-Input Pos. AND Gate* ***NEW!***	14-SOIC	.50	.36	.31
SN74HC21QDRQ1	296-24750-2-ND	Dual 4-Input Pos. AND Gate* ***NEW!***	14-SOIC	352.50/2,500		
SN74HC21QPWRG4Q1	296-24429-1-ND	Dual 4-Input Positive AND Gate* ***NEW!***	14-TSSOP	.50	.36	.31
SN74HC21QPWRG4Q1	296-24429-2-ND	Dual 4-Input Positive AND Gate* ***NEW!***	14-TSSOP	282.00/2,000		
SN74HC21QPWRQ1	296-18317-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.50	.36	.31
SN74HC21QPWRQ1	296-18317-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	282.00/2,000		
SN74HC27D	296-8298-5-ND	Triple 3-Input NOR Gate	14-SOIC	.55	.37	.30
SN74HC27N	296-12896-5-ND	Triple 3-Input NOR Gate	14-Dip	.50	.34	.27
SN74HC27NSR	296-8299-1-ND	Triple 3-Input NOR Gate	14-SOP	.56	.37	.31
SN74HC27NSR	296-8299-2-ND	Triple 3-Input NOR Gate	14-SOP	254.00/2,000		
SN74HC32D	296-1199-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.44	.33	.28
SN74HC32DR	296-1199-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.56	.37	.31
SN74HC32DR	296-1199-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	317.50/2,500		
SN74HC32DBR	296-8301-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.62	.41	.34
SN74HC32DBR	296-8301-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	280.00/2,000		
SN74HC32N	296-1589-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.55	.37	.30
SN74HC32NSR	296-26477-1-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-SOP	.62	.41	.34
SN74HC32NSR	296-26477-2-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-SOP	280.00/2,000		
SN74HC32PWR	296-8302-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.56	.37	.31
SN74HC32PWR	296-8302-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	254.00/2,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC42D	296-8331-5-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	1.01	.81	.71
SN74HC42DR	296-8331-1-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	1.06	.82	.72
SN74HC42DR	296-8331-2-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	870.00/2,500		
SN74HC42N	296-8332-5-ND	4-to-10 Line Decoder (1 of 10)	16-Dip	.92	.74	.65
SN74HC74D	296-1204-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.44	.33	.28
SN74HC74DR	296-1204-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.56	.37	.31
SN74HC74DR	296-1204-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	317.50/2,500		
SN74HC74DBR	296-8370-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	.62	.41	.34
SN74HC74DBR	296-8370-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	280.00/2,000		
SN74HC74MPWREP	296-23317-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.92	.72	.63
SN74HC74MPWREP	296-23317-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	609.00/2,000		
SN74HC74N	296-1602-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-Dip	.55	.37	.30
SN74HC74NSR	296-8371-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	.62	.41	.34
SN74HC74NSR	296-8371-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	280.00/2,000		
SN74HC74PWR	296-8372-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.56	.37	.31
SN74HC74PWR	296-8372-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	254.00/2,000		
SN74HC74QDRQ1	296-23566-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.65	.43	.35
SN74HC74QDRQ1	296-23566-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	690.00/5,000		
SN74HC74QDRG4Q1	296-24430-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset* ***NEW!***	14-SOIC	.65	.43	.35
SN74HC74QDRG4Q1	296-24430-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset* ***NEW!***	14-SOIC	690.00/5,000		
SN74HC74QPWRG4Q1	296-24550-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset* ***NEW!***	14-TSSOP	.65	.43	.35
SN74HC74QPWRG4Q1	296-24550-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset* ***NEW!***	14-TSSOP	294.00/2,000		
SN74HC74QPWRQ1	296-19255-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.65	.43	.35
SN74HC74QPWRQ1	296-19255-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	294.00/2,000		
SN74HC86D	296-8374-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.34	.29
SN74HC86DR	296-14859-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.58	.38	.32
SN74HC86DR	296-14859-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	330.00/2,500		
SN74HC86N	296-8375-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.57	.38	.31
SN74HC86NSR	296-26488-1-ND	Quad 2-In Exclusive OR Gate* ***NEW!***	14-SOP	.64	.42	.35
SN74HC86NSR	296-26488-2-ND	Quad 2-In Exclusive OR Gate* ***NEW!***	14-SOP	290.00/2,000		
SN74HC86PW	296-26489-5-ND	Quad 2-In Exclusive OR Gate* ***NEW!***	14-TSSOP	.46	.34	.29
SN74HC86PWR	296-8376-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.58	.38	.32
SN74HC86PWR	296-8376-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	264.00/2,000		
SN74HC109D	296-8211-5-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	.57	.42	.36
SN74HC109DR	296-14827-1-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	.55	.39	.33
SN74HC109DR	296-14827-2-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	387.50/2,500		
SN74HC109N	296-8212-5-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-Dip	.52	.39	.33
SN74HC112D	296-8215-5-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	.57	.42	.36
SN74HC112DR	296-14829-1-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	.55	.39	.33
SN74HC112DR	296-14829-2-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-SOIC	387.50/2,500		
SN74HC112N	296-12121-5-ND	Dual J-K Flip-Flop w/ Clear and Preset	16-Dip	.52	.39	.33
SN74HC125D	296-1192-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74HC125DR	296-1192-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74HC125DR	296-1192-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74HC125DBR	296-8218-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74HC125DBR	296-8218-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	290.00/2,000		
SN74HC125N	296-1572-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.57	.38	.31
SN74HC125NSR	296-26460-1-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-SOP	.64	.42	.35
SN74HC125NSR	296-26460-2-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-SOP	290.00/2,000		
SN74HC125PWR	296-26461-1-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-TSSOP	.58	.38	.32
SN74HC125PWR	296-26461-2-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-TSSOP	264.00/2,000		
SN74HC125PWT	296-16821-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	1.01	.79	.69
SN74HC125PWT	296-16821-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	135.25/250		
SN74HC126D	296-8219-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74HC126DBR	296-8220-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74HC126DBR	296-8220-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	290.00/2,000		
SN74HC126DR	296-14831-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74HC126DR	296-14831-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74HC126N	296-8221-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.57	.38	.31
SN74HC126NSR	296-8222-1-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.64	.42	.35
SN74HC126NSR	296-8222-2-ND	Quad Tri-State Bus Buffer Gate	14-SOP	290.00/2,000		
SN74HC126PWR	296-26462-1-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-TSSOP	.58	.38	.32
SN74HC126PWR	296-26462-2-ND	Quad Tri-St. Bus Buffer Gate* ***NEW!***	14-TSSOP	264.00/2,000		
SN74HC132D	296-8224-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.46	.34	.29
SN74HC132DBR	296-8225-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	.64	.42	.35
SN74HC132DBR	296-8225-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	290.00/2,000		
SN74HC132DR	296-14832-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.58	.38	.32
SN74HC132DR	296-14832-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	330.00/2,500		
SN74HC132N	296-1573-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-Dip	.57	.38	.31
SN74HC132NSR	296-26463-1-ND	Quad NAND Gate w/Schmitt-Trigger In* ***NEW!***	14-SOP	.64	.42	.35
SN74HC132NSR	296-26463-2-ND	Quad NAND Gate w/Schmitt-Trigger In* ***NEW!***	14-SOP	290.00/2,000		
SN74HC132PW	296-26464-5-ND	Quad NAND Gate w/Schmitt-Trigger In* ***NEW!***	14-TSSOP	.46	.34	.29
SN74HC132QPWRG4Q1	296-24749-1-ND	Quad Positve-NAND Gate w/Schmitt-Trigger Input* ***NEW!***	14-TSSOP	.51	.36	.31
SN74HC132QPWRG4Q1	296-24749-2-ND	Quad Positve-NAND Gate w/Schmitt-Trigger Input* ***NEW!***	14-TSSOP	286.00/2,000		
SN74HC132QPWRQ1	296-24108-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.51	.36	.31
SN74HC132QPWRQ1	296-24108-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	286.00/2,000		
SN74HC132PWR	296-8226-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.58	.38	.32
SN74HC132PWR	296-8226-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	264.00/2,000		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC138D	296-1193-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74HC138DR	296-1193-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74HC138DR	296-1193-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74HC138DBR	296-8227-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	.64	.42	.35
SN74HC138DBR	296-8227-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	290.00/2,000		
SN74HC138N	296-1575-5-ND	3-to-8 Line Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74HC138NSR	296-12886-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SOP	.64	.42	.35
SN74HC138NSR	296-12886-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SOP	290.00/2,000		
SN74HC138PWR	296-8228-1-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74HC138PWR	296-8228-2-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74HC138QDRG4Q1	296-24428-1-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-SOIC	.51	.36	.31
SN74HC138QDRG4Q1	296-24428-2-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-SOIC	357.50/2,500		
SN74HC139D	296-8229-5-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74HC139DR	296-14833-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74HC139DR	296-14833-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74HC139N	296-8230-5-ND	Dual 2-4 Line Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74HC139NSR	296-26466-1-ND	Dual 2-4 Line Decoder/Demux* ***NEW!***	16-SOP	.64	.42	.35
SN74HC139NSR	296-26466-2-ND	Dual 2-4 Line Decoder/Demux* ***NEW!***	16-SOP	290.00/2,000		
SN74HC139PWR	296-8231-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74HC139PWR	296-8231-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74HC139QPWRQ1	296-18717-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	.51	.36	.31
SN74HC139QPWRQ1	296-18717-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-TSSOP	286.00/2,000		
SN74HC148D	296-8232-5-ND	8-to-3 Line Priority Encoder	16-SOIC	.46	.34	.29
SN74HC148N	296-8233-5-ND	8-to-3 Line Priority Encoder	16-Dip	.57	.38	.31
SN74HC151D	296-8235-5-ND	8-1 Line Data Selector/Multiplexer	16-SOIC	.63	.47	.40
SN74HC151DR	296-14834-1-ND	8-1 Line Data Selector/Multiplexer	16-SOIC	.61	.43	.37
SN74HC151DR	296-14834-2-ND	8-1 Line Data Selector/Multiplexer	16-SOIC	427.50/2,500		
SN74HC151N	296-8236-5-ND	8-1 Line Data Selector/Multiplexer	16-Dip	.57	.43	.37
SN74HC153D	296-8237-5-ND	Dual 4-1 Line Data Selector/Multiplexer	16-SOIC	.57	.42	.36
SN74HC153DR	296-14835-1-ND	Dual 4-1 Line Data Selector/Multiplexer	16-SOIC	.55	.39	.33
SN74HC153DR	296-14835-2-ND	Dual 4-1 Line Data Selector/Multiplexer	16-SOIC	387.50/2,500		
SN74HC153PWR	296-12888-1-ND	Dual 4-1 Line Data Selector/Multiplexer	16-TSSOP	.55	.39	.33
SN74HC153PWR	296-12888-2-ND	Dual 4-1 Line Data Selector/Multiplexer	16-TSSOP	310.00/2,000		
SN74HC153N	296-8238-5-ND	Dual 4-1 Line Data Selector/Multiplexer	16-Dip	.52	.39	.33
SN74HC157D	296-8239-5-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.57	.42	.36
SN74HC157DR	296-14836-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.55	.39	.33
SN74HC157DR	296-14836-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	387.50/2,500		
SN74HC157N	296-1578-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.52	.39	.33
SN74HC161D	296-8243-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.46	.34	.29
SN74HC161DR	296-14837-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.58	.38	.32
SN74HC161DR	296-14837-2-ND	4-Bit Sync. Binary Counter	16-SOIC	330.00/2,500		
SN74HC161N	296-8244-5-ND	4-Bit Sync. Binary Counter	16-Dip	.57	.38	.31
SN74HC163D	296-8245-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.46	.34	.29
SN74HC163N	296-8246-5-ND	4-Bit Sync. Binary Counter	16-Dip	.57	.38	.31
SN74HC163NSR	296-12889-1-ND	4-Bit Sync. Binary Counter	16-SOP	.64	.42	.35
SN74HC163NSR	296-12889-2-ND	4-Bit Sync. Binary Counter	16-SOP	290.00/2,000		
SN74HC164D	296-8247-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.46	.34	.29
SN74HC164DR	296-14838-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.58	.38	.32
SN74HC164DR	296-14838-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	330.00/2,500		
SN74HC164N	296-8248-5-ND	8-Bit Parallel-Out Serial Shift Register	14-Dip	.57	.38	.31
SN74HC164PWR	296-14020-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.58	.38	.32
SN74HC164PWR	296-14020-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	264.00/2,000		
SN74HC165D	296-8249-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.57	.42	.36
SN74HC165DBR	296-23151-1-ND	8-Bit Parallel-Load Shift Register	16-SSOP	.61	.43	.37
SN74HC165DBR	296-23151-2-ND	8-Bit Parallel-Load Shift Register	16-SSOP	341.00/2,000		
SN74HC165DR	296-8250-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.39	.33
SN74HC165DR	296-8250-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	387.50/2,500		
SN74HC165N	296-8251-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.52	.39	.33
SN74HC165NSR	296-8252-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.61	.43	.37
SN74HC165NSR	296-8252-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	341.00/2,000		
SN74HC165PWR	296-8253-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.55	.39	.33
SN74HC165PWR	296-8253-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	310.00/2,000		
SN74HC165QDREP	296-22297-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	1.25	.99	.90
SN74HC165QDREP	296-22297-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	1155.00/2,500		
SN74HC165QPWREP	296-22298-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	1.25	.99	.90
SN74HC165QPWREP	296-22298-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	924.00/2,000		
SN74HC165QPWRG4Q1	296-23992-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.63	.45	.38
SN74HC165QPWRG4Q1	296-23992-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	356.00/2,000		
SN74HC166AIDREP	296-22299-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.95	.75	.68
SN74HC166AIDREP	296-22299-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	875.00/2,500		
SN74HC166AIDRQ1	296-24856-1-ND	8-Bit Parallel-Load Shift Register* ***NEW!***	16-SOIC	.61	.43	.37
SN74HC166AIDRQ1	296-24856-2-ND	8-Bit Parallel-Load Shift Register* ***NEW!***	16-SOIC	427.50/2,500		
SN74HC166D	296-8254-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.57	.42	.36
SN74HC166DR	296-14839-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.39	.33
SN74HC166DR	296-14839-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	387.50/2,500		
SN74HC166N	296-8255-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.52	.39	.33
SN74HC174D	296-1195-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.57	.42	.36
SN74HC174DBR	296-19249-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.61	.43	.37
SN74HC174DBR	296-19249-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	341.00/2,000		
SN74HC174DR	296-1195-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.39	.33
SN74HC174DR	296-1195-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	387.50/2,500		
SN74HC174N	296-1579-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.52	.39	.33
SN74HC174NSR	296-13215-1-ND	Hex D-Type Flip-Flop with Clear	16-SOP	.61	.43	.37
SN74HC174NSR	296-13215-2-ND	Hex D-Type Flip-Flop with Clear	16-SOP	341.00/2,000		
SN74HC174PWT	296-23256-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.95	.75	.68
SN74HC174PWT	296-23256-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	134.50/250		
SN74HC175D	296-8256-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.57	.42	.36
SN74HC175DR	296-14840-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.55	.39	.33
SN74HC175DR	296-14840-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	387.50/2,500		
SN74HC175N	296-8257-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.52	.39	.33
SN74HC175PWR	296-8258-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.55	.39	.33
SN74HC175PWR	296-8258-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	310.00/2,000		
SN74HC191D	296-8259-5-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.68	.51	.44
SN74HC191DR	296-14841-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.66	.47	.40
SN74HC191DR	296-14841-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	465.00/2,500		
SN74HC191N	296-8260-5-ND	4-Bit Sync. Up/Down Binary Counter	16-Dip	.63	.47	.40
SN74HC191NSR	296-12890-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	.73	.51	.44
SN74HC191NSR	296-12890-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	410.00/2,000		
SN74HC193D	296-8261-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOIC	.63	.47	.40
SN74HC193N	296-8262-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-Dip	.57	.43	.37
SN74HC193NSR	296-12891-1-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	.67	.47	.40
SN74HC193NSR	296-12891-2-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	376.00/2,000		
SN74HC193QPWRG4Q1	296-23644-1-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-TSSOP	.70	.49	.42
SN74HC193QPWRG4Q1	296-23644-2-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-TSSOP	394.00/2,000		
SN74HC240DW	296-8267-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
SN74HC240DWR	296-14843-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.58	.41	.35
SN74HC240DWR	296-14843-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	326.00/2,000		
SN74HC240N	296-1580-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
SN74HC240NSR	296-26473-1-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-SOP	.64	.45	.39
SN74HC240NSR	296-26473-2-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-SOP	360.00/2,000		
SN74HC240PWR	296-8269-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
SN74HC240PWR	296-8269-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	326.00/2,000		
SN74HC241DW	296-8270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
SN74HC241N	296-8271-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
SN74HC241PWR	296-19250-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
SN74HC241PWR	296-19250-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	326.00/2,000		
SN74HC244DBR	296-8273-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.64	.45	.39
SN74HC244DBR	296-8273-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	360.00/2,000		
SN74HC244DW	296-1196-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
SN74HC244DWR	296-1196-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.58	.41	.35
SN74HC244DWR	296-1196-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	326.00/2,000		
SN74HC244MDWREP	296-18125-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	2.94	2.27	2.06
SN74HC244MDWREP	296-18125-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	2268.00/2,000		
SN74HC244N	296-1582-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
SN74HC244NSR	296-8274-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.64	.45	.39
SN74HC244NSR	296-8274-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	360.00/2,000		
SN74HC244PWR	296-8276-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
SN74HC244PWR	296-8276-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	326.00/2,000		
SN74HC244QDWREP	296-22300-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.71	1.35	1.22
SN74HC244QDWREP	296-22300-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1260.00/2,000		
SN74HC244QPWREP	296-22301-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	1.71	1.35	1.22
SN74HC244QPWREP	296-22301-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	1260.00/2,000		
SN74HC245DBR	296-8277-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.45	.39
SN74HC245DBR	296-8277-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	360.00/2,000		
SN74HC245DW	296-1197-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.38
SN74HC245DWR	296-1197-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.58	.41	.35
SN74HC245DWR	296-1197-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	326.00/2,000		
SN74HC245N	296-1584-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.41	.35
SN74HC245NSR	296-8278-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.64	.45	.39
SN74HC245NSR	296-8278-2-ND	Tri-State Octal Bus Transceiver	20-SOP	360.00/2,000		
SN74HC251D	296-8280-5-ND	Tri-State Data Selector/Multiplexer	16-SOIC	.68	.51	.44
SN74HC251DBR	296-12894-1-ND	Tri-State Data Selector/Multiplexer	16-SSOP	.73	.51	.44
SN74HC251DBR	296-12894-2-ND	Tri-State Data Selector/Multiplexer	16-SSOP	410.00/2,000		
SN74HC251DR	296-14844-1-ND	Tri-State Data Selector/Multiplexer	16-SOIC	.66	.47	.40
SN74HC251DR	296-14844-2-ND	Tri-State Data Selector/Multiplexer	16-SOIC	465.00/2,500		
SN74HC251N	296-1585-5-ND	Tri-State Data Selector/Multiplexer	16-Dip	.63	.47	.40
SN74HC251NSR	296-13217-1-ND	Tri-State Data Selector/Multiplexer	16-SOP	.73	.51	.44
SN74HC251NSR	296-13217-2-ND	Tri-State Data Selector/Multiplexer	16-SOP	410.00/2,000		
SN74HC253D	296-8281-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.68	.51	.44
SN74HC253DBR	296-8282-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	.73	.51	.44
SN74HC253DBR	296-8282-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	410.00/2,000		
SN74HC253DR	296-14845-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.66	.47	.40
SN74HC253DR	296-14845-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	465.00/2,500		
SN74HC253N	296-8283-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-Dip	.63	.47	.40
SN74HC257D	296-8284-5-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-SOIC	.60	.45	.38
SN74HC257DR	296-14846-1-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-SOIC	.58	.41	.35
SN74HC257DR	296-14846-2-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-SOIC	406.88/2,500		
SN74HC257N	296-8285-5-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-Dip	.55	.41	.35
SN74HC257NSR	296-8286-1-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-SOP	.64	.45	.39
SN74HC257NSR	296-8286-2-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-SOP	360.00/2,000		
SN74HC257PWR	296-8287-1-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-TSSOP	.58	.41	.35
SN74HC257PWR	296-8287-2-ND	Tri-State Quad 2-1 Line Data Sel./Mux	16-TSSOP	325.50/2,000		
SN74HC259D	296-8290-5-ND	8-Bit Addressable Latch	16-SOIC	.68	.51	.44
SN74HC259DR	296-14847-1-ND	8-Bit Addressable Latch	16-SOIC	.66	.47	.40
SN74HC259DR	296-14847-2-ND	8-Bit Addressable Latch	16-SOIC	465.00/2,500		
SN74HC259N	296-8291-5-ND	8-Bit Addressable Latch	16-Dip	.63	.47	.40
SN74HC259NSR	296-12895-1-ND	8-Bit Addressable Latch	16-SOP	.73	.51	.44
SN74HC259NSR	296-12895-2-ND	8-Bit Addressable Latch	16-SOP	410.00/2,000		
SN74HC259PWR	296-8292-1-ND	8-Bit Addressable Latch	16-TSSOP	.66	.47	.40
SN74HC259PWR	296-8292-2-ND	8-Bit Addressable Latch	16-TSSOP	372.00/2,000		
SN74HC266D	296-8293-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-SOIC	.68	.51	.44
SN74HC266N	296-8294-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-Dip	.63	.47	.40
SN74HC273DBR	296-8295-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.64	.45	.39
SN74HC273DBR	296-8295-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	360.00/2,000		
SN74HC273DW	296-1198-5-ND	Octal D-Type Flip-Flop	20-SOIC	.60	.45	.38
SN74HC273DWR	296-1198-1-ND	Octal D-Type Flip-Flop	20-SOIC	.58	.41	.35
SN74HC273DWR	296-1198-2-ND	Octal D-Type Flip-Flop	20-SOIC	326.00/2,000		
SN74HC273N	296-1587-5-ND	Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74HC273NSR	296-8296-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.64	.45	.39
SN74HC273NSR	296-8296-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP	360.00/2,000		
SN74HC273PW	296-26476-5-ND	Octal D-Type F/F with Clear* ***NEW!***	20-TSSOP	.60	.45	.38
SN74HC273PWR	296-8297-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.58	.41	.35
SN74HC273PWR	296-8297-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	326.00/2,000		
SN74HC365D	296-8303-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.67	.53	.46
SN74HC365N	296-8304-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.62	.48	.42
SN74HC365NSR	296-12897-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.68	.53	.47
SN74HC365NSR	296-12897-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	446.00/2,000		
SN74HC367D	296-8305-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.67	.53	.46
SN74HC367N	296-8306-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.62	.48	.42
SN74HC368D	296-8307-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.62	.49	.43
SN74HC368DR	296-14850-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.72	.51	.43
SN74HC368DR	296-14850-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	503.75/2,500		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC368N	296-8308-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.68	.51	.43
SN74HC368PWR	296-25440-1-ND	Tri-St. Hex Buffer/Line Driver* ***NEW!***	16-TSSOP	.72	.51	.43
SN74HC368PWR	296-25440-2-ND	Tri-St. Hex Buffer/Line Driver* ***NEW!***	16-TSSOP	404.00/2,000		
SN74HC373DBR	296-8309-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.64	.45	.39
SN74HC373DBR	296-8309-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	360.00/2,000		
SN74HC373DW	296-1200-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.38
SN74HC373DWR	296-1200-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.58	.41	.35
SN74HC373DWR	296-1200-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	326.00/2,000		
SN74HC373N	296-1591-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.55	.41	.35
SN74HC373NSR	296-8310-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.64	.45	.39
SN74HC373NSR	296-8310-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	360.00/2,000		
SN74HC373PWR	296-8311-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.58	.41	.35
SN74HC373PWR	296-8311-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	326.00/2,000		
SN74HC374DBR	296-8312-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.64	.45	.39
SN74HC374DBR	296-8312-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	360.00/2,000		
SN74HC374DW	296-1201-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.38
SN74HC374DWR	296-1201-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.58	.41	.35
SN74HC374DWR	296-1201-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	326.00/2,000		
SN74HC374N	296-1592-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74HC374NSR	296-8313-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.64	.45	.39
SN74HC374NSR	296-8313-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	360.00/2,000		
SN74HC374PWR	296-8314-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.58	.41	.35
SN74HC374PWR	296-8314-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	326.00/2,000		
SN74HC377DW	296-9818-5-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-SOIC	.68	.51	.44
SN74HC377DWR	296-9818-1-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-SOIC	.66	.47	.40
SN74HC377DWR	296-9818-2-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-SOIC	372.00/2,000		
SN74HC377N	296-8316-5-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-Dip	.63	.47	.40
SN74HC393D	296-8317-5-ND	Dual 4-Bit Binary Counter	14-SOIC	.57	.42	.36
SN74HC393DBR	296-8318-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.61	.43	.37
SN74HC393DBR	296-8318-2-ND	Dual 4-Bit Binary Counter	14-SSOP	342.00/2,000		
SN74HC393DR	296-14851-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.55	.39	.33
SN74HC393DR	296-14851-2-ND	Dual 4-Bit Binary Counter	14-SOIC	387.50/2,500		
SN74HC393N	296-8319-5-ND	Dual 4-Bit Binary Counter	14-Dip	.52	.39	.33
SN74HC540DWR	296-8333-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.72	.51	.43
SN74HC540DWR	296-8333-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	404.00/2,000		
SN74HC540N	296-8334-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.43
SN74HC541DBR	296-14855-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.79	.56	.48
SN74HC541DBR	296-14855-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	444.00/2,000		
SN74HC541DW	296-1202-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.62	.49	.43
SN74HC541DWR	296-1202-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.72	.51	.43
SN74HC541DWR	296-1202-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	404.00/2,000		
SN74HC541N	296-1594-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.43
SN74HC541NSR	296-13218-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.79	.56	.48
SN74HC541NSR	296-13218-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	444.00/2,000		
SN74HC541PWR	296-8335-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.72	.51	.43
SN74HC541PWR	296-8335-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	404.00/2,000		
SN74HC563DW	296-11838-5-ND	Tri-St. Octal Transparent D-Type Latch* ***NEW!***	20-SOIC	1.47	1.18	1.03
SN74HC573ADBR	296-23257-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.69	.49	.42
SN74HC573ADBR	296-23257-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	390.00/2,000		
SN74HC573ADW	296-1203-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.65	.48	.42
SN74HC573ADWR	296-1203-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.64	.45	.39
SN74HC573ADWR	296-1203-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	360.00/2,000		
SN74HC573AN	296-1596-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.60	.45	.38
SN74HC573APWR	296-8338-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.64	.45	.39
SN74HC573APWR	296-8338-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	360.00/2,000		
SN74HC574DW	296-1597-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.38
SN74HC574DWR	296-1597-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.58	.41	.35
SN74HC574DWR	296-1597-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	326.00/2,000		
SN74HC574N	296-1598-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74HC574PWR	296-8339-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.58	.41	.35
SN74HC574PWR	296-8339-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	326.00/2,000		
SN74HC590AD	296-8340-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.72	.56	.49
SN74HC590ADR	296-17132-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.66	.51	.45
SN74HC590ADR	296-17132-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC	543.75/2,500		
SN74HC590ADW	296-8341-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.72	.56	.49
SN74HC590AN	296-1599-5-ND	Tri-State 8-Bit Binary Counter	16-Dip	.66	.52	.45
SN74HC594D	296-26484-5-ND	8-Bit Shift Register w/ Output Register* ***NEW!***	16-SOIC	.77	.60	.52
SN74HC594DW	296-8342-5-ND	8-Bit Shift Register w/ Output Register	16-SOIC	.77	.60	.52
SN74HC594N	296-8343-5-ND	8-Bit Shift Register w/ Output Register	16-Dip	.70	.55	.48
SN74HC595D	296-8344-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.68	.51	.44
SN74HC595DR	296-14857-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.66	.47	.40
SN74HC595DR	296-14857-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	465.00/2,500		
SN74HC595DW	296-8345-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.68	.51	.44
SN74HC595DWR	296-14858-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.66	.47	.40
SN74HC595DWR	296-14858-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	372.00/2,000		
SN74HC595N	296-1600-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.63	.47	.40
SN74HC595NSR	296-26485-1-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-SOP	.73	.51	.44
SN74HC595NSR	296-26485-2-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-SOP	410.00/2,000		
SN74HC595PWR	296-23258-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.66	.47	.40
SN74HC595PWR	296-23258-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	372.00/2,000		
SN74HC623DW	296-8346-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	7.88	6.46	5.83
SN74HC623N	296-8347-5-ND	Tri-State Octal Bus Transceiver	20-Dip	7.25	5.95	5.37
SN74HC640DW	296-8348-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.71	1.38	1.24
SN74HC640N	296-8349-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.73	1.39	1.22
SN74HC645DW	296-8350-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.68	1.35	1.18
SN74HC645N	296-8351-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.54	1.24	1.08
SN74HC646DW	296-8352-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	1.68	1.35	1.18
SN74HC646NT	296-8353-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	1.71	1.38	1.24
SN74HC652DW	296-8354-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	2.33	1.88	1.69
SN74HC652NT	296-8355-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	2.64	2.13	1.92
SN74HC682DWR	296-8356-1-ND	8-Bit Magnitude Comparator	20-SOIC	4.50	3.68	3.30
SN74HC682DWR	296-8356-2-ND	8-Bit Magnitude Comparator	20-SOIC	3990.00/2,000		
SN74HC682N	296-8357-5-ND	8-Bit Magnitude Comparator	20-Dip	4.62	3.72	3.39
SN74HC684DW	296-8358-5-ND	8-Bit Magnitude Comparator	20-SOIC	8.75	7.18	6.48
SN74HC684N	296-8359-5-ND	8-Bit Magnitude Comparator	20-Dip	8.00	6.56	5.92
SN74HC688DW	296-8360-5-ND	8-Bit Identity Comparator	20-SOIC	1.13	.91	.80
SN74HC688N	296-8361-5-ND	8-Bit Identity Comparator	20-Dip	1.04	.84	.73
SN74HC688PWR	296-8362-1-ND	8-Bit Identity Comparator	20-TSSOP	1.03	.81	.73
SN74HC688PWR	296-8362-2-ND	8-Bit Identity Comparator	20-TSSOP	756.00/2,000		
SN74HC4020D	296-8320-5-ND	14-Bit Asynchronous Binary Counter	16-SOIC	.65	.51	.44
SN74HC4020N	296-8321-5-ND	14-Bit Asynchronous Binary Counter	16-Dip	.71	.53	.45
SN74HC4040D	296-8322-5-ND	12-Bit Asynchronous Binary Counter	16-SOIC	.65	.51	.44
SN74HC4040DBR	296-8323-1-ND	12-Bit Asynchronous Binary Counter	16-SSOP	.82	.58	.50
SN74HC4040DBR	296-8323-2-ND	12-Bit Asynchronous Binary Counter	16-SSOP	462.00/2,000		
SN74HC4040DR	296-14852-1-ND	12-Bit Asynchronous Binary Counter	16-SOIC	.74	.52	.45
SN74HC4040DR	296-14852-2-ND	12-Bit Asynchronous Binary Counter	16-SOIC	523.13/2,500		
SN74HC4040N	296-8324-5-ND	12-Bit Asynchronous Binary Counter	16-Dip	.71	.53	.45
SN74HC4040PW	296-26480-5-ND	12-Bit Async. Binary Counter* ***NEW!***	16-TSSOP	.65	.51	.44
SN74HC4040PWR	296-8325-1-ND	12-Bit Asynchronous Binary Counter	16-TSSOP	.74	.52	.45
SN74HC4040PWR	296-8325-2-ND	12-Bit Asynchronous Binary Counter	16-TSSOP	418.50/2,000		
SN74HC4060D	296-8326-5-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-SOIC	.67	.53	.46
SN74HC4060DR	296-14853-1-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-SOIC	.77	.54	.47
SN74HC4060DR	296-14853-2-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-SOIC	542.50/2,500		
SN74HC4060N	296-8209-5-ND	14-Stage Asynchronous Binary Counter and Oscillator	16-Dip	.62	.48	.42
SN74HC4066D	296-8327-5-ND	Quad Bilateral Analog Switch	14-SOIC	.57	.42	.36
SN74HC4066DR	296-14854-1-ND	Quad Bilateral Analog Switch	14-SOIC	.55	.39	.33
SN74HC4066DR	296-14854-2-ND	Quad Bilateral Analog Switch	14-SOIC	387.50/2,500		
SN74HC4066N	296-8329-5-ND	Quad Bilateral Analog Switch	14-Dip	.52	.39	.33
SN74HC4066PW	296-26481-5-ND	Quad Bilateral Analog Switch* ***NEW!***	14-TSSOP	.57	.42	.36
SN74HC4066PWR	296-8330-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.55	.39	.33
SN74HC4066PWR	296-8330-2-ND	Quad Bilateral Analog Switch	14-TSSOP	310.00/2,000		
SN74HC4851DGVR	296-19251-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.70	.55	.48
SN74HC4851DGVR	296-19251-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	464.00/2,000		
SN74HC4851N	296-15741-5-ND	8-Channel Analog Mux/Demux	16-Dip	.70	.55	.48
SN74HC4851PWR	296-16983-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.70	.55	.48
SN74HC4851PWR	296-16983-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	464.00/2,000		
SN74HC4851QDRQ1	296-17266-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.81	.63	.56
SN74HC4851QDRQ1	296-17266-2-ND	8-Channel Analog Mux/Demux	16-SOIC	667.50/2,500		
SN74HC4851QPWRQ1	296-19551-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.81	.63	.56
SN74HC4851QPWRQ1	296-19551-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	534.00/2,000		
SN74HC4852DGVR	296-19252-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP	.70	.55	.48
SN74HC4852DGVR	296-19252-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP	464.00/2,000		
SN74HC4852DR	296-19253-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC	.70	.55	.48
SN74HC4852DR	296-19253-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC	580.00/2,500		
SN74HC4852N	296-17301-5-ND	Dual 4-1 Channel Analog Mux/Demux	16-Dip	.70	.55	.48
SN74HC4852PWR	296-19254-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP	.70	.55	.48
SN74HC4852PWR	296-19254-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP	464.00/2,000		
SN74HC4852QPWRQ1	296-24508-1-ND	Dual 4-to-1 Mux/Demux* ***NEW!***	16-TSSOP	.81	.63	.56
SN74HC4852QPWRQ1	296-24508-2-ND	Dual 4-to-1 Mux/Demux* ***NEW!***	16-TSSOP	534.00/2,000		
SN74HC7001D	296-8363-5-ND	Quad AND Gate w/Schmitt-Trigger In	14-SOIC	2.02	1.63	1.47
SN74HC7001N	296-8364-5-ND	Quad AND Gate w/Schmitt-Trigger In	14-Dip	1.86	1.50	1.35
SN74HC7002D	296-8365-5-ND	Quad NOR Gate w/Schmitt-Trigger In	14-SOIC	2.48	2.00	1.80
SN74HC7002N	296-8366-5-ND	Quad NOR Gate w/Schmitt-Trigger In	14-Dip	2.48	2.00	1.80
SN74HC7032D	296-8367-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-SOIC	3.36	2.70	2.46
SN74HC7032N	296-8368-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-Dip	3.08	2.48	2.26
HCT Family						
CD74HCT00E	296-2081-5-ND	Quad 2-Input NAND Gate	14-Dip	.63	.47	.40
CD74HCT00M	296-9244-5-ND	Quad 2-Input NAND Gate	14-SOIC	.68	.51	.44
CD74HCT00M96	296-14542-1-ND	Quad 2-Input NAND Gate	14-SOIC	.66	.47	.40
CD74HCT00M96	296-14542-2-ND	Quad 2-Input NAND Gate	14-SOIC	465.00/2,500		
CD74HCT02E	296-2082-5-ND	Quad 2-Input NOR Gate	14-Dip	.63	.47	.40
CD74HCT02M	296-12825-5-ND	Quad 2-Input NOR Gate	14-SOIC	.68	.51	.44
CD74HCT03E	296-2134-5-ND	Quad 2-Input NAND Gate with OD	14-Dip	.43	.32	.28
CD74HCT03M	296-26015-5-ND	Quad 2-Input NAND Gate with OD* ***NEW!***	14-SOIC	.55	.37	.30
CD74HCT03M96	296-9245-1-ND	Quad 2-Input NAND Gate with OD	14-SOIC	.51	.34	.28
CD74HCT03M96	296-9245-2-ND	Quad 2-Input NAND Gate with OD	14-SOIC	288.75/2,500		
CD74HCT04E	296-2083-5-ND	Hex Inverter/Buffer	14-Dip	.63	.47	.40
CD74HCT04M	296-9246-5-ND	Hex Inverter/Buffer	14-SOIC	.68	.51	.44
CD74HCT04M96	296-14543-1-ND	Hex Inverter/Buffer	14-SOIC	.66	.47	.40
CD74HCT04M96	296-14543-2-ND	Hex Inverter/Buffer	14-SOIC	465.00/2,500		
CD74HCT04PWR	296-17123-1-ND	Hex Inverter/Buffer	14-TSSOP	.66	.47	.40
CD74HCT04PWR	296-17123-2-ND	Hex Inverter/Buffer	14-TSSOP	372.00/2,000		
CD74HCT08E	296-2084-5-ND	Quad 2-Input AND Gate	14-Dip	.63	.47	.40
CD74HCT08M	296-12828-5-ND	Quad 2-Input AND Gate	14-SOIC	.68	.51	.44
CD74HCT10E	296-2086-5-ND	Triple 3-Input NAND Gate	14-Dip	.63	.47	.40
CD74HCT10M	296-9247-5-ND	Triple 3-Input NAND Gate	14-SOIC	.68	.51	.44
CD74HCT10M96	296-14545-1-ND	Triple 3-Input NAND Gate	14-SOIC	.66	.47	.40
CD74HCT10M96	296-14545-2-ND	Triple 3-Input NAND Gate	14-SOIC	465.00/2,500		
CD74HCT11E	296-2087-5-ND	Triple 3-Input AND Gate	14-Dip	.47	.35	.30
CD74HCT11M96	296-9249-1-ND	Triple 3-Input AND Gate	14-SOIC	.50	.35	.30
CD74HCT11M96	296-9249-2-ND	Triple 3-Input AND Gate	14-SOIC	348.75/2,500		
CD74HCT14E	296-2093-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.63	.47	.40
CD74HCT14M	296-9253-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.68	.51	.44
CD74HCT14M96	296-14548-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.66	.47	.40
CD74HCT14M96	296-14548-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	465.00/2,500		
CD74HCT21E	296-9262-5-ND	Dual 4-Input AND Gate	14-Dip	.50	.34	.27
CD74HCT21M	296-26021-5-ND	Dual 4-Input AND Gate* ***NEW!***	14-SOIC	.55	.37	.30
CD74HCT27M96	296-23210-1-ND	HS CMOS Logic Triple 3-In NOR Gate	14-SOIC	.66	.47	.40
CD74HCT27M96	296-23210-2-ND	HS CMOS Logic Triple 3-In NOR Gate	14-SOIC	465.00/2,500		
CD74HCT30E	296-2111-5-ND	8-Input NAND Gate	14-Dip	.50	.34	.27
CD74HCT30M	296-9267-5-ND	8-Input NAND Gate	14-SOIC	.46	.31	.25
CD74HCT32E	296-2112-5-ND	Quad 2-Input OR Gate	14-Dip	.63	.47	.40
CD74HCT32M	296-12842-5-ND	Quad 2-Input OR Gate	14-SOIC	.68	.51	.44
CD74HCT32M96	296-14555-1-ND	Quad 2-Input OR Gate	14-SOIC	.66	.47	.40
CD74HCT32M96	296-14555-2-ND	Quad 2-Input OR Gate	14-SOIC	465.00/2,500		
CD74HCT73E	296-9297-5-ND	Dual Neg-Edge-Trigger J-K Flip-Flop with Reset	14-Dip	.80	.62	.54
CD74HCT73M	296-9298-5-ND	Dual Neg-Edge-Trigger J-K Flip-Flop with Reset	14-SOP	.80	.62	.54
CD74HCT74E	296-2132-5-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.63	.47	.40
CD74HCT74M	296-9299-5-ND	Dual Pos-Edge-Trigger D-Type Flip-Flop with Set and Reset	14-SOIC	.68	.51	.44
CD74HCT74M96	296-14561-1-ND	Dual Pos-Edge-Trigger D-Type Flip-Flop with Set and Reset	14-SOIC	.66	.47	.40
CD74HCT74M96	296-14561-2-ND	Dual Pos-Edge-Trigger D-Type Flip-Flop with Set and Reset	14-SOIC	465.00/2,500		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74HCT75E	296-2136-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.95	.76	.67
CD74HCT75M	296-26034-5-ND	Dual 2-Bit Bistable Transparent Latch* ***NEW!***	16-SOIC	.95	.76	.67
CD74HCT86E	296-2133-5-ND	Quad HS 2-Input Exclusive OR Gate	14-Dip	.70	.55	.48
CD74HCT86M	296-8201-5-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	.77	.60	.52
CD74HCT86M96	296-8201-1-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	.70	.55	.48
CD74HCT86M96	296-8201-2-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	580.00/2,500		
CD74HCT109E	296-2085-5-ND	Dual J-K Flip-Flop with Set and Reset	16-Dip	.92	.74	.65
CD74HCT112E	296-9248-5-ND	Dual Neg-Edge-Trigger J-K Flip-Flop with Set and Reset	16-Dip	.60	.47	.41
CD74HCT123E	296-2088-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.63	.47	.40
CD74HCT123M	296-9250-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.68	.51	.44
CD74HCT125E	296-2089-5-ND	Tri-State Quad Buffer	14-Dip	.70	.55	.48
CD74HCT125M	296-26016-5-ND	Tri-State Quad Buffer* ***NEW!***	14-SOICN	.77	.60	.52
CD74HCT125M96	296-12829-1-ND	Tri-State Quad Buffer	14-SOIC	.70	.55	.48
CD74HCT125M96	296-12829-2-ND	Tri-State Quad Buffer	14-SOIC	580.00/2,500		
CD74HCT126E	296-9251-5-ND	Tri-State Quad Buffer	14-Dip	.63	.47	.40
CD74HCT126M	296-12830-5-ND	Tri-State Quad Buffer	14-SOIC	.68	.51	.44
CD74HCT126M96	296-14546-1-ND	Tri-State Quad Buffer	14-SOIC	.66	.47	.40
CD74HCT126M96	296-14546-2-ND	Tri-State Quad Buffer	14-SOIC	465.00/2,500		
CD74HCT132E	296-2090-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.63	.47	.40
CD74HCT132M	296-26017-5-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-SOIC	.57	.42	.36
CD74HCT132M96	296-12831-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.66	.47	.40
CD74HCT132M96	296-12831-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	465.00/2,500		
CD74HCT138E	296-2091-5-ND	3-8 Line Decoder/Demux Inverting/ Non-Inverting	16-Dip	.70	.55	.48
CD74HCT138M	296-12832-5-ND	3-8 Line Decoder/Demux Inverting/ Non-Inverting	16-SOIC	.64	.50	.44
CD74HCT138M96	296-14547-1-ND	3-8 Line Decoder/Demux Inverting/ Non-Inverting	16-SOIC	.70	.55	.48
CD74HCT138M96	296-14547-2-ND	3-8 Line Decoder/Demux Inverting/ Non-Inverting	16-SOIC	580.00/2,500		
CD74HCT139E	296-2092-5-ND	Dual 2-of-4 Line Decoder/Demux	16-Dip	.70	.55	.48
CD74HCT147E	296-9252-5-ND	10-4 Line Priority Encoder	16-Dip	.72	.56	.49
CD74HCT151M	296-9254-5-ND	8-Input Multiplexer	16-SOIC	.68	.51	.44
CD74HCT153E	296-2094-5-ND	Dual 4-Input Multiplexer	16-Dip	.63	.47	.40
CD74HCT153M	296-9255-5-ND	Dual 4-Input Multiplexer	16-SOIC	.68	.51	.44
CD74HCT154M	296-26018-5-ND	4-16 Line Decoder/Demux* ***NEW!***	24-SOIC	.96	.75	.65
CD74HCT157E	296-2095-5-ND	Quad 2-Input Multiplexer	16-Dip	.70	.55	.48
CD74HCT157M	296-26019-5-ND	Quad 2-Input Multiplexer* ***NEW!***	16-SOIC	.64	.50	.44
CD74HCT157M96	296-23209-1-ND	Quad 2-Input Multiplexer	16-SOIC	.70	.55	.48
CD74HCT157M96	296-23209-2-ND	Quad 2-Input Multiplexer	16-SOIC	580.00/2,500		
CD74HCT161E	296-2096-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-Dip	.63	.47	.40
CD74HCT161M	296-9256-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-SOIC	.68	.51	.44
CD74HCT163E	296-12833-5-ND	Presettable Sync. Counter	16-Dip	.63	.47	.40
CD74HCT164E	296-2097-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.63	.47	.40
CD74HCT164M	296-9257-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.68	.51	.44
CD74HCT164M96	296-14549-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.66	.47	.40
CD74HCT164M96	296-14549-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	465.00/2,500		
CD74HCT165E	296-2098-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.63	.47	.40
CD74HCT165M	296-9258-5-ND	Asynchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.68	.51	.44
CD74HCT165M96	296-14551-1-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.66	.47	.40
CD74HCT165M96	296-14551-2-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	465.00/2,500		
CD74HCT166E	296-2099-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.63	.47	.40
CD74HCT166M	296-9259-5-ND	Synchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.68	.51	.44
CD74HCT174E	296-2100-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.63	.47	.40
CD74HCT174M	296-9260-5-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.57	.42	.36
CD74HCT174M96	296-12836-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.66	.47	.40
CD74HCT174M96	296-12836-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	465.00/2,500		
CD74HCT175E	296-2101-5-ND	Quad D-Type Flip-Flop with Reset	16-Dip	.63	.47	.40
CD74HCT175M	296-26020-5-ND	Quad D-Type Flip-Flop with Reset* ***NEW!***	16-SOIC	.57	.42	.36
CD74HCT175M96	296-12837-1-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	.66	.47	.40
CD74HCT175M96	296-12837-2-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	465.00/2,500		
CD74HCT191M	296-9261-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOIC	.88	.69	.60
CD74HCT221E	296-26022-5-ND	Dual Mono Multivibrator with Reset* ***NEW!***	16-Dip	.72	.56	.49
CD74HCT221M	296-26023-5-ND	Dual Mono Multivibrator with Reset* ***NEW!***	16-SOIC	.72	.56	.49
CD74HCT221M96	296-9263-1-ND	Dual Mono Multivibrator with Reset	16-SOIC	.79	.62	.54
CD74HCT221M96	296-9263-2-ND	Dual Mono Multivibrator with Reset	16-SOIC	652.50/2,500		
CD74HCT238E	296-2143-5-ND	HS CMOS 3-to-8 Line Decoder/Demux Inverter/Noninverting* ***NEW!***	16-Dip	.66	.52	.45
CD74HCT238M	296-26024-5-ND	HS CMOS 3-to-8 Line Decoder/Demux Inverter/Noninverting* ***NEW!***	16-SOIC	.72	.56	.49
CD74HCT238M96	296-17124-5-ND	High Speed CMOS 3-to-8 Line Decoder/Demux Inverter/Noninverting	16-SOIC	.60	.47	.41
CD74HCT240E	296-2103-5-ND	Tri-St. Inverting Octal Buffer Line Drvr.	20-Dip	.89	.71	.62
CD74HCT240M	296-9264-5-ND	Tri-St. Inverting Octal Buffer Line Drvr.	20-SOIC	.97	.78	.68
CD74HCT241E	296-2144-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.79	.62	.54
CD74HCT241M96	296-12838-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.79	.62	.54
CD74HCT241M96	296-12838-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	522.00/2,000		
CD74HCT243E	296-2145-5-ND	Tri-St. HS CMOS Logic Quad Bus Xcvr.	14-Dip	1.12	.90	.79
CD74HCT243M	296-26025-5-ND	Tri-St. HS CMOS Logic Quad Bus Xcvr.* ***NEW!***	14-SOIC	1.12	.90	.79
CD74HCT244E	296-2104-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.84	.65	.57
CD74HCT244M	296-12839-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.91	.71	.62

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74HCT244M96	296-14552-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.84	.65	.57
CD74HCT244M96	296-14552-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	552.00/2,000		
CD74HCT245E	296-2105-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.84	.65	.57
CD74HCT245M	296-12840-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.91	.71	.62
CD74HCT245M96	296-14553-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.84	.65	.57
CD74HCT245M96	296-14553-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	551.00/2,000		
CD74HCT251E	296-2106-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.66	.52	.45
CD74HCT251M	296-26026-5-ND	Tri-State 8-Input Multiplexer* ***NEW!***	16-SOIC	.72	.56	.49
CD74HCT253E	296-2107-5-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.66	.52	.45
CD74HCT253M	296-9265-5-ND	Tri-State Dual 4-Input Multiplexer	16-SOIC	.72	.56	.49
CD74HCT257E	296-2108-5-ND	Tri-St. Quad 2-In. Mux, Non-Invert Out	16-Dip	.84	.65	.57
CD74HCT258E	296-2146-5-ND	Tri-State Inverting High Speed CMOS Logic Quad 2-Input Multiplexer	16-Dip	.64	.50	.44
CD74HCT259E	296-2109-5-ND	8-Bit Addressable Latch	16-Dip	.62	.48	.42
CD74HCT259M	296-26027-5-ND	8-Bit Addressable Latch* ***NEW!***	16-SOIC	.67	.53	.46
CD74HCT273E	296-2110-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.84	.65	.57
CD74HCT273M	296-12841-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.91	.71	.62
CD74HCT273M96	296-14554-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.84	.65	.57
CD74HCT273M96	296-14554-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	551.00/2,000		
CD74HCT280E	296-2147-5-ND	High Speed CMOS Logic 9-Bit Odd/ Even Parity Generator/Checker	14-Dip	.80	.62	.54
CD74HCT299M	296-9266-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.56	.49
CD74HCT356E	296-2148-5-ND	Tri-State High Speed CMOS Logic 8-Input Multiplexer/Register	20-Dip	1.71	1.38	1.24
CD74HCT365E	296-2149-5-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-Dip	.70	.55	.48
CD74HCT365M96	296-15733-1-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	.70	.55	.48
CD74HCT365M96	296-15733-2-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	580.00/2,500		
CD74HCT367E	296-2113-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.94	.73	.64
CD74HCT368M	296-9268-5-ND	Tri-St. Inverting Hex Buffer/Line Driver	16-SOIC	.96	.75	.65
CD74HCT373E	296-2114-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.84	.65	.57
CD74HCT373M	296-12843-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.91	.71	.62
CD74HCT374E	296-2115-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.84	.65	.57
CD74HCT374M96	296-9269-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.65	.57
CD74HCT374M96	296-9269-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	551.00/2,000		
CD74HCT377M	296-9427-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.76	.59	.52
CD74HCT390M	296-9270-5-ND	Dual Decade Ripple Counter	16-SOIC	.77	.60	.52
CD74HCT393E	296-2116-5-ND	Dual 4-Stage Binary Counter	14-Dip	.68	.51	.43
CD74HCT393M	296-9271-5-ND	Dual 4-Stage Binary Counter	14-SOIC	.62	.49	.43
CD74HCT393M96	296-14556-1-ND	Dual 4-Stage Binary Counter	14-SOIC	.72	.51	.43
CD74HCT393M96	296-14556-2-ND	Dual 4-Stage Binary Counter	14-SOIC	505.00/2,500		
CD74HCT540E	296-2126-5-ND	Tri-St. Inverting Octal Buffer Line Dvr.	20-Dip	.89	.71	.62
CD74HCT541E	296-2127-5-ND	Tri-State Octal Buffer Line Driver	20-Dip	.84	.65	.57
CD74HCT541M	296-9288-5-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.91	.71	.62
CD74HCT541M96	296-9288-1-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.84	.65	.57
CD74HCT541M96	296-9288-2-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	552.00/2,000		
CD74HCT563M	296-9289-5-ND	Tri-State Octal Transparent Inverting Latch	20-SOIC	.60	.47	.41
CD74HCT564M	296-9290-5-ND	Tri-St. Inverting Octal D-Type Flip-Flop	20-SOIC	1.71	1.38	1.24
CD74HCT573E	296-2128-5-ND	Tri-State Octal Transparent Latch	20-Dip	.84	.65	.57
CD74HCT573DBR	296-17125-1-ND	Tri-State Octal Transparent Latch	20-SSOP	.92	.72	.63
CD74HCT573DBR	296-17125-2-ND	Tri-State Octal Transparent Latch	20-SSOP	606.00/2,000		
CD74HCT573M	296-26032-5-ND	Tri-St. Octal Transparent D-Type Latch* ***NEW!***	20-SOIC	.91	.71	.62
CD74HCT573M96	296-9291-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.84	.65	.57
CD74HCT573M96	296-9291-2-ND	Tri-State Octal Transparent Latch	20-SOIC	552.00/2,000		
CD74HCT574E	296-2129-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.84	.65	.57
CD74HCT574M96	296-9292-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.65	.57
CD74HCT574M96	296-9292-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	551.00/2,000		
CD74HCT574PWR	296-17126-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.84	.65	.57
CD74HCT574PWR	296-17126-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	551.00/2,000		
CD74HCT574QM96EP	296-22106-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2.00	1.54	1.40
CD74HCT574QM96EP	296-22106-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1539.00/2,000		
CD74HCT597E	296-2130-5-ND	8-Bit Shift Register with Input Storage	16-Dip	1.59	1.28	1.12
CD74HCT597M	296-26033-5-ND	8-Bit Shift Register with Input Storage* ***NEW!***	16-SOIC	1.47	1.18	1.03
CD74HCT597M96	296-12844-1-ND	8-Bit Shift Register with Input Storage	16-SOIC	1.33	1.05	.95
CD74HCT597M96	296-12844-2-ND	8-Bit Shift Register with Input Storage	16-SOIC	1225.00/2,500		
CD74HCT640E	296-2155-5-ND	Tri-State Octal High Speed CMOS Logic Bus Transceiver, Inverting* ***NEW!***	20-Dip	3.50	2.82	2.57
CD74HCT646M96	296-9293-1-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	3.00	2.45	2.20
CD74HCT646M96	296-9293-2-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2660.00/2,000		
CD74HCT670M	296-9294-5-ND	4-by-4 Register File	16-SOIC	7.63	6.26	5.65
CD74HCT688E	296-2131-5-ND	8-Bit Magnitude Comparator	20-Dip	.97	.76	.66
CD74HCT688M	296-9295-5-ND	8-Bit Magnitude Comparator	20-SOIC	.92	.74	.65
CD74HCT688M96	296-24357-1-ND	8-Bit Magnitude Comparator* ***NEW!***	20-SOIC	.97	.75	.66
CD74HCT688M96	296-24357-2-ND	8-Bit Magnitude Comparator* ***NEW!***	20-SOIC	638.00/2,000		
CD74HCT4020M	296-9273-5-ND	14-Stage Binary Counter	16-SOIC	.62	.49	.43
CD74HCT4024M	296-9274-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.68	.53	.46
CD74HCT4040E	296-2118-5-ND	12-Bit Binary Counter	16-Dip	.70	.55	.48
CD74HCT4040M	296-26028-5-ND	12-Stage Binary Counter* ***NEW!***	16-SOIC	.77	.60	.52
CD74HCT4040M96	296-14558-1-ND	12-Stage Binary Counter	16-SOIC	.70	.55	.48
CD74HCT4040M96	296-14558-2-ND	12-Stage Binary Counter	16-SOIC	580.00/2,500		
CD74HCT4046AM	296-9275-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.47	.41
CD74HCT4051E	296-2119-5-ND	8-Channel Analog Mux/Demux	16-Dip	.68	.51	.43
CD74HCT4051M	296-9276-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.63	.47	.40
CD74HCT4051M96	296-14560-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.61	.43	.37
CD74HCT4051M96	296-14560-2-ND	8-Channel Analog Mux/Demux	16-SOIC	427.50/2,500		
CD74HCT4052E	296-2120-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.68	.51	.43
CD74HCT4052M	296-26029-5-ND	Dual 4-Channel Analog Mux/ Demux* ***NEW!***	16-SOIC	.62	.49	.43
CD74HCT4052M96	296-9277-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.72	.51	.43
CD74HCT4052M96	296-9277-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	505.00/2,500		
CD74HCT4053E	296-2121-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.52	.39	.33
CD74HCT4053M	296-9278-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.57	.42	.36
CD74HCT4053M96	296-26030-1-ND	Triple 2-Channel Analog Mux/ Demux* ***NEW!***	16-SOIC	.55	.39	.33
CD74HCT4053M96	296-26030-2-ND	Triple 2-Channel Analog Mux/ Demux* ***NEW!***	16-SOIC	387.50/2,500		

* ***RoHS Compliant***

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74HCT4053PWR	296-9279-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.39	.33
CD74HCT4053PWR	296-9279-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	310.00/2,000		
CD74HCT4060M	296-9280-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.82	.64	.56
CD74HCT4066E	296-2122-5-ND	Quad Bilateral Switch	14-Dip	.75	.58	.51
CD74HCT4066M	296-26031-5-ND	Quad Bilateral Switch* ***NEW!***	14-SOIC	.82	.64	.56
CD74HCT4066M96	296-9281-1-ND	Quad Bilateral Switch	14-SOIC	.75	.58	.51
CD74HCT4066M96	296-9281-2-ND	Quad Bilateral Switch	14-SOIC	617.50/2,500		
CD74HCT4067M	296-23078-ND	High Speed CMOS Logic 16-Channel Analog Mux/Demux	24-SOIC	.80	.62	.54
CD74HCT4094E	296-2123-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-Dip	.75	.58	.51
CD74HCT4094M	296-14291-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-SOIC	.82	.64	.56
CD74HCT4316E	296-2124-5-ND	Quad Analog Switch	16-Dip	.89	.71	.62
CD74HCT4351E	296-2158-5-ND	HS CMOS Logic Analog Mux/Demux	20-Dip	.92	.72	.63
CD74HCT4511E	296-9282-5-ND	BCD-to-7 Segment Latch/Decoder/Dvr.	16-Dip	.92	.72	.63
CD74HCT4514E	296-9283-5-ND	4-to-16 Line Decoder/Demux with Input Latch	24-Dip	2.79	2.25	2.03
CD74HCT4520E	296-9284-5-ND	Dual Binary Up-Counter	16-Dip	.75	.58	.51
CD74HCT4520M	296-9285-5-ND	Dual Binary Up-Counter	16-SOIC	.82	.64	.56
CD74HCT4538E	296-2125-5-ND	Dual Prec. Monostable Multivibrator	16-Dip	.79	.62	.54
CD74HCT4538M	296-9286-5-ND	Dual Prec. Monostable Multivibrator	16-SOIC	.72	.56	.49
CD74HCT7046AM	296-9296-5-ND	PLL with VCO and Lock Detector	16-SOIC	3.08	2.48	2.26
CD74HCT40103M	296-9272-5-ND	8-Stage Sync. Down Counter	16-SOIC	1.39	1.11	.98
CD74HCT40105E	296-2117-5-ND	4 Bits x 16 Words FIFO Register	16-Dip	1.23	.99	.87
SN74HCT00D	296-8377-5-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.33	.28
SN74HCT00DR	296-14860-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.37	.31
SN74HCT00DR	296-14860-2-ND	Quad 2-Input NAND Gate	14-SOIC	317.50/2,500		
SN74HCT00N	296-1603-5-ND	Quad 2-Input NAND Gate	14-Dip	.55	.37	.30
SN74HCT02D	296-8379-5-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.33	.28
SN74HCT02DR	296-14861-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.37	.31
SN74HCT02DR	296-14861-2-ND	Quad 2-Input NOR Gate	14-SOIC	317.50/2,500		
SN74HCT02N	296-8380-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.37	.30
SN74HCT02PW	296-26490-5-ND	Quad 2-Input Pos. NOR Gate* ***NEW!***	14-TSSOP	.44	.33	.28
SN74HCT04D	296-1205-5-ND	Hex Inverter	14-SOIC	.44	.33	.28
SN74HCT04DR	296-1205-1-ND	Hex Inverter	14-SOIC	.56	.37	.31
SN74HCT04DR	296-1205-2-ND	Hex Inverter	14-SOIC	317.50/2,500		
SN74HCT04IDREP	296-22303-1-ND	Hex Inverter	14-SOIC	.70	.55	.48
SN74HCT04IDREP	296-22303-2-ND	Hex Inverter	14-SOIC	580.00/2,500		
SN74HCT04N	296-1605-5-ND	Hex Inverter	14-Dip	.55	.37	.30
SN74HCT04PWR	296-8382-1-ND	Hex Inverter	14-TSSOP	.56	.37	.31
SN74HCT04PWR	296-8382-2-ND	Hex Inverter	14-TSSOP	254.00/2,000		
SN74HCT08D	296-8383-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.44	.33	.28
SN74HCT08DBR	296-8384-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.62	.41	.34
SN74HCT08DBR	296-8384-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	280.00/2,000		
SN74HCT08DR	296-14862-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.56	.37	.31
SN74HCT08DR	296-14862-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	317.50/2,500		
SN74HCT08N	296-1606-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.55	.37	.30
SN74HCT08PW	296-26492-5-ND	Quad 2-Input Pos. AND Gate* ***NEW!***	14-TSSOP	.44	.33	.28
SN74HCT08PWR	296-8385-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.56	.37	.31
SN74HCT08PWR	296-8385-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	254.00/2,000		
SN74HCT14D	296-8391-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.44	.33	.28
SN74HCT14DBR	296-8392-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.62	.41	.34
SN74HCT14DBR	296-8392-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	280.00/2,000		
SN74HCT14DGVR	296-8393-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.56	.37	.31
SN74HCT14DGVR	296-8393-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	254.10/2,000		
SN74HCT14DR	296-14864-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.56	.37	.31
SN74HCT14DR	296-14864-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	317.50/2,500		
SN74HCT14N	296-8394-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.55	.37	.30
SN74HCT14PWR	296-8395-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.56	.37	.31
SN74HCT14PWR	296-8395-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	254.00/2,000		
SN74HCT14QPWRG4Q1	296-24606-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-TSSOP	.65	.43	.35
SN74HCT14QPWRG4Q1	296-24606-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-TSSOP	294.00/2,000		
SN74HCT32D	296-1614-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.48	.36	.31
SN74HCT32DBR	296-8410-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.52	.37	.32
SN74HCT32DBR	296-8410-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	292.00/2,000		
SN74HCT32DR	296-14868-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.62	.41	.34
SN74HCT32DR	296-14868-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	350.00/2,500		
SN74HCT32N	296-1615-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.45	.33	.29
SN74HCT32NSR	296-26497-1-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-SOP	.52	.37	.32
SN74HCT32NSR	296-26497-2-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-SOP	292.00/2,000		
SN74HCT32PWR	296-8411-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.62	.41	.34
SN74HCT32PWR	296-8411-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	280.00/2,000		
SN74HCT74D	296-1211-5-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.44	.33	.28
SN74HCT74DR	296-1211-1-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.56	.37	.31
SN74HCT74DR	296-1211-2-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	317.50/2,500		
SN74HCT74N	296-1625-5-ND	Dual D-Type Flip-Flop	14-Dip	.55	.37	.30
SN74HCT74PWR	296-8429-1-ND	Dual D-Type F/F with Clear and Preset	14-TSSOP	.56	.37	.31
SN74HCT74PWR	296-8429-2-ND	Dual D-Type F/F with Clear and Preset	14-TSSOP	254.00/2,000		
SN74HCT125D	296-1206-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74HCT125DR	296-1206-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74HCT125DR	296-1206-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74HCT125N	296-8386-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.57	.38	.31
SN74HCT138D	296-8387-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74HCT138DR	296-14863-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74HCT138DR	296-14863-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74HCT138N	296-1608-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.57	.38	.31
SN74HCT138PW	296-26493-5-ND	3-8 Line Decoder/Demux* ***NEW!***	16-TSSOP	.46	.34	.29
SN74HCT138PWR	296-8388-1-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	.58	.38	.32
SN74HCT138PWR	296-8388-2-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	264.00/2,000		
SN74HCT139D	296-8389-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.46	.34	.29
SN74HCT139N	296-8390-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.57	.38	.31
SN74HCT139PWR	296-11999-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.58	.38	.32
SN74HCT139PWR	296-11999-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	264.00/2,000		
SN74HCT157D	296-8396-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-SOIC	.57	.42	.36
SN74HCT157N	296-8397-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-Dip	.52	.39	.33
SN74HCT240DW	296-8398-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
SN74HCT240DWR	296-14865-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.58	.41	.35
SN74HCT240DWR	296-14865-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	326.00/2,000		
SN74HCT240N	296-8399-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
SN74HCT240NSR	296-12899-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.64	.45	.39
SN74HCT240NSR	296-12899-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	360.00/2,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74HCT240PWR	296-13631-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
SN74HCT240PWR	296-13631-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	326.00/2,000		
SN74HCT244DBR	296-8400-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.64	.45	.39
SN74HCT244DBR	296-8400-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	360.00/2,000		
SN74HCT244DW	296-1207-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
SN74HCT244DWR	296-1207-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.58	.41	.35
SN74HCT244DWR	296-1207-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	326.00/2,000		
SN74HCT244N	296-1610-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.41	.35
SN74HCT244NSR	296-8401-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.64	.45	.39
SN74HCT244NSR	296-8401-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	360.00/2,000		
SN74HCT244PWR	296-8402-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
SN74HCT244PWR	296-8402-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	326.00/2,000		
SN74HCT244QPWRG4Q1	296-23658-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.67	.47	.40
SN74HCT244QPWRG4Q1	296-23658-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	376.00/2,000		
SN74HCT245DBR	296-8403-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.45	.39
SN74HCT245DBR	296-8403-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	360.00/2,000		
SN74HCT245DW	296-1208-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.38
SN74HCT245DWR	296-1208-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.58	.41	.35
SN74HCT245DWR	296-1208-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	326.00/2,000		
SN74HCT245N	296-1612-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.41	.35
SN74HCT245NSR	296-15849-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.64	.45	.39
SN74HCT245NSR	296-15849-2-ND	Tri-State Octal Bus Transceiver	20-SOP	360.00/2,000		
SN74HCT245PWR	296-8404-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.58	.41	.35
SN74HCT245PWR	296-8404-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	326.00/2,000		
SN74HCT257DR	296-14866-1-ND	Tri-State Quad 2-1 Line Data Selector/ Multiplexer	16-SOIC	.66	.47	.40
SN74HCT257DR	296-14866-2-ND	Tri-State Quad 2-1 Line Data Selector/ Multiplexer	16-SOIC	465.00/2,500		
SN74HCT257N	296-8406-5-ND	Tri-State Quad 2-1 Line Data Selector/ Multiplexer	16-Dip	.63	.47	.40
SN74HCT273ANSR	296-23738-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	1.63	1.29	1.17
SN74HCT273ANSR	296-23738-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP	1204.00/2,000		
SN74HCT273DBR	296-8407-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.64	.45	.39
SN74HCT273DBR	296-8407-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	360.00/2,000		
SN74HCT273DW	296-8408-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.60	.45	.38
SN74HCT273DWR	296-14867-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.58	.41	.35
SN74HCT273DWR	296-14867-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	326.00/2,000		
SN74HCT273N	296-1613-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.55	.41	.35
SN74HCT273PW	296-26496-5-ND	Octal D-Type F/F with Clear* ***NEW!***	20-TSSOP	.60	.45	.38
SN74HCT273PWR	296-8409-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.58	.41	.35
SN74HCT273PWR	296-8409-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	326.00/2,000		
SN74HCT373DW	296-8412-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.38
SN74HCT373DWR	296-8412-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.58	.41	.35
SN74HCT373DWR	296-8412-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	326.00/2,000		
SN74HCT373N	296-1616-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.55	.41	.35
SN74HCT373NSR	296-8413-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.64	.45	.39
SN74HCT373NSR	296-8413-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	360.00/2,000		
SN74HCT373PWR	296-8414-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.58	.41	.35
SN74HCT373PWR	296-8414-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	326.00/2,000		
SN74HCT374DBR	296-8415-1-ND	Tri-State Octal Transparent D-Type F/F	20-SSOP	.64	.45	.39
SN74HCT374DBR	296-8415-2-ND	Tri-State Octal Transparent D-Type F/F	20-SSOP	360.00/2,000		
SN74HCT374DW	296-1209-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.60	.45	.38
SN74HCT374DWR	296-1209-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.58	.41	.35
SN74HCT374DWR	296-1209-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	326.00/2,000		
SN74HCT374N	296-1617-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-Dip	.55	.41	.35
SN74HCT374PWR	296-23259-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.58	.41	.35
SN74HCT374PWR	296-23259-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	326.00/2,000		
SN74HCT374PWT	296-23260-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.97	.77	.69
SN74HCT374PWT	296-23260-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	137.00/250		
SN74HCT377DW	296-8416-5-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-SOIC	.67	.53	.46
SN74HCT377N	296-8417-5-ND	Octal D-Type Flip-Flop w/ Clock Enable	20-Dip	.62	.48	.42
SN74HCT540DW	296-8418-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.62	.49	.43
SN74HCT540DWR	296-14869-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.72	.51	.43
SN74HCT540DWR	296-14869-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	404.00/2,000		
SN74HCT540N	296-8419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.43
SN74HCT541DW	296-1618-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.62	.49	.43
SN74HCT541DWR	296-14870-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.72	.51	.43
SN74HCT541DWR	296-14870-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	404.00/2,000		
SN74HCT541N	296-1619-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.43
SN74HCT541PW	296-26498-5-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-TSSOP	.62	.49	.43
SN74HCT541PWR	296-26499-1-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-TSSOP	.72	.51	.43
SN74HCT541PWR	296-26499-2-ND	Tri-St. Octal Buffer/Line Dvr.* ***NEW!***	20-TSSOP	404.00/2,000		
SN74HCT573DBR	296-8420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.64	.45	.39
SN74HCT573DBR	296-8420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	360.00/2,000		
SN74HCT573DW	296-1210-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.45	.38
SN74HCT573DWR	296-1210-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.58	.41	.35
SN74HCT573DWR	296-1210-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	326.00/2,000		
SN74HCT573N	296-1621-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.55	.41	.35
SN74HCT573PW	296-26500-5-ND	Tri-St. Octal Transparent D-Type Latch* ***NEW!***	20-TSSOP	.60	.45	.38
SN74HCT574DW	296-1622-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.38
SN74HCT574DWR	296-14871-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.58	.41	.35
SN74HCT574DWR	296-14871-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	326.00/2,000		
SN74HCT574N	296-1623-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.41	.35
SN74HCT574PW	296-26501-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F* ***NEW!***	20-TSSOP	.60	.45	.38
SN74HCT574PWR	296-8421-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.58	.41	.35
SN74HCT574PWR	296-8421-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	326.00/2,000		
SN74HCT623DW	296-8422-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	6.58	5.29	4.82
SN74HCT645DW	296-8423-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.68	1.35	1.18
SN74HCT645N	296-8424-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.54	1.24	1.08
SN74HCT646DW	296-8425-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	1.55	1.25	1.13
SN74HCT646NT	296-8426-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	1.71	1.38	1.24
SN74HCT652DW	296-1624-5-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	2.33	1.88	1.69
SN74HCT652DWR	296-1624-1-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	2.10	1.62	1.47
SN74HCT652DWR	296-1624-2-ND	Tri-State Octal Bus Transcvr/Register	24-SOIC	1620.00/2,000		
SN74HCT652NT	296-8427-5-ND	Tri-State Octal Bus Transcvr/Register	24-Dip	2.48	2.00	1.80
HCU Family						
CD74HCU04M	296-9432-5-ND	Hex Inverter/Buffer	14-SOIC	.68	.51	.44
SN74HCU04D	296-9819-5-ND	Hex Inverter	14-SOIC	.55	.37	.30
SN74HCU04DR	296-14872-1-ND	Hex Inverter	14-SOIC	.51	.34	.28
SN74HCU04DR	296-14872-2-ND	Hex Inverter	14-SOIC	290.00/2,500		
SN74HCU04N	296-9820-5-ND	Hex Inverter	14-Dip	.50	.34	.27
SN74HCU04PWR	296-9821-1-ND	Hex Inverter	14-TSSOP	.51	.34	.28
SN74HCU04PWR	296-9821-2-ND	Hex Inverter	14-TSSOP	232.00/2,000		

***** ***RoHS Compliant***

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
		HSTL Family				
SN74HSTL16918DGGR	296-9823-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	6.00	4.90	4.40
SN74HSTL16918DGGR	296-9823-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	5320.00/2,000		
SN74HSTL16919DGGR	296-13219-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch w/Input Pullup Res.	48-TSSOP	9.94	8.25	7.50
SN74HSTL16919DGGR	296-13219-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch w/ Input Pullup Res.	48-TSSOP	9750.00/2,000		
SN74HSTL162822DGGR	296-9822-1-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	10.60	8.80	8.00
SN74HSTL162822DGGR	296-9822-2-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	10400.00/2,000		
		LS Family				
SN74LS00DR	296-14873-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.77	.54	.47
SN74LS00DR	296-14873-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	542.50/2,500		
SN74LS00N	296-1626-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.62	.48	.42
SN74LS00NSR	296-3616-1-ND	Quad 2-Input Positive NAND Gate* ***NEW!***	14-SOP	.68	.53	.47
SN74LS00NSR	296-3616-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	446.00/2,000		
SN74LS02D	296-3617-5-ND	Quad 2-Input Positive NOR Gate* ***NEW!***	14-SOIC	.67	.53	.46
SN74LS02DR	296-14874-1-ND	Quad 2-Input Positive NOR Gate	14-SOIC	.77	.54	.47
SN74LS02DR	296-14874-2-ND	Quad 2-Input Positive NOR Gate	14-SOIC	542.50/2,500		
SN74LS02N	296-1627-5-ND	Quad 2-Input NOR Gate	14-Dip	.62	.48	.42
SN74LS02NSR	296-3618-1-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOP	.68	.53	.47
SN74LS02NSR	296-3618-2-ND	Quad 2-Input NOR Gate	14-SOP	446.00/2,000		
SN74LS03N	296-3620-5-ND	Quad 2-Input NAND Gate w/OC Output	14-Dip	.92	.74	.65
SN74LS04D	296-1628-5-ND	Hex Inverter	14-SOIC	.74	.58	.50
SN74LS04DR	296-14875-1-ND	Hex Inverter	14-SOIC	.68	.53	.47
SN74LS04DR	296-14875-2-ND	Hex Inverter	14-SOIC	557.50/2,500		
SN74LS04N	296-1629-5-ND	Hex Inverter	14-Dip	.68	.53	.46
SN74LS04NSR	296-3621-1-ND	Hex Inverter* ***NEW!***	14-SOP	.74	.58	.51
SN74LS04NSR	296-3621-2-ND	Hex Inverter* ***NEW!***	14-SOP	490.00/2,000		
SN74LS05D	296-1630-5-ND	Hex Inverter with OC Output	14-SOIC	.92	.74	.65
SN74LS05DBR	296-3622-1-ND	Hex Inverter with OC Output	14-SSOP	1.06	.83	.73
SN74LS05DBR	296-3622-2-ND	Hex Inverter with OC Output	14-SSOP	702.00/2,000		
SN74LS05N	296-1631-5-ND	Hex Inverter with OC Output	14-Dip	.97	.76	.66
SN74LS05NSR	296-26502-1-ND	Hex Inverter with OC Output* ***NEW!***	14-SOP	1.06	.83	.73
SN74LS05NSR	296-26502-2-ND	Hex Inverter with OC Output* ***NEW!***	14-SOP	702.00/2,000		
SN74LS05DR	296-1630-1-ND	Hex Inverter with OC Output	14-SOIC	.97	.75	.66
SN74LS05DR	296-1630-2-ND	Hex Inverter with OC Output	14-SOIC	797.50/2,500		
SN74LS06DBR	296-3624-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SSOP	1.06	.83	.73
SN74LS06DBR	296-3624-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SSOP	702.00/2,000		
SN74LS06DR	296-14876-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	.97	.75	.66
SN74LS06DR	296-14876-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	797.50/2,500		
SN74LS06N	296-15069-5-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-Dip	.97	.76	.66
SN74LS06NSR	296-3625-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output* ***NEW!***	14-SOP	1.06	.83	.73
SN74LS06NSR	296-3625-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output* ***NEW!***	14-SOP	702.00/2,000		
SN74LS07D	296-3626-5-ND	Hex Buffer/Driver with HV Output	14-SOIC	1.16	.93	.81
SN74LS07DBR	296-3627-1-ND	Hex Buffer/Driver with HV Output	14-SSOP	1.00	.80	.72
SN74LS07DBR	296-3627-2-ND	Hex Buffer/Driver with HV Output	14-SSOP	740.00/2,000		
SN74LS07DR	296-14877-1-ND	Hex Buffer/Driver with HV Output	14-SOIC	1.06	.82	.72
SN74LS07DR	296-14877-2-ND	Hex Buffer/Driver with HV Output	14-SOIC	870.00/2,500		
SN74LS07N	296-14878-5-ND	Hex Buffer/Driver with HV Output	14-Dip	.92	.74	.65
SN74LS08D	296-1632-5-ND	Quad 2-Input AND Gate	14-SOIC	.67	.53	.46
SN74LS08DR	296-14879-1-ND	Quad 2-Input AND Gate	14-SOIC	.77	.54	.47
SN74LS08DR	296-14879-2-ND	Quad 2-Input AND Gate	14-SOIC	542.50/2,500		
SN74LS08N	296-1633-5-ND	Quad 2-Input AND Gate	14-Dip	.62	.48	.42
SN74LS09DR	296-14880-1-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	1.06	.82	.72
SN74LS09DR	296-14880-2-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	870.00/2,500		
SN74LS09N	296-3631-5-ND	Quad 2-Input AND Gate with OC Output	14-Dip	.92	.74	.65
SN74LS10N	296-1634-5-ND	Triple 3-Input NAND Gate	14-Dip	.75	.58	.51
SN74LS11N	296-3638-5-ND	Triple 3-Input Positive AND Gate	14-Dip	.75	.58	.51
SN74LS14D	296-1212-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.67	.53	.46
SN74LS14DBR	296-26505-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SSOP	.68	.53	.47
SN74LS14DBR	296-26505-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SSOP	446.00/2,000		
SN74LS14DR	296-1212-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.77	.54	.47
SN74LS14DR	296-1212-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	542.50/2,500		
SN74LS14N	296-1643-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.62	.48	.42
SN74LS14NSR	296-3652-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	.68	.53	.47
SN74LS14NSR	296-3652-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	446.00/2,000		
SN74LS20N	296-3670-5-ND	Dual 4-Input NAND Gate	14-Dip	.92	.74	.65
SN74LS21N	296-3672-5-ND	Dual 4-Input AND Gate	14-Dip	.70	.55	.48
SN74LS26N	296-26511-5-ND	Quad 2-Input NAND Gate* ***NEW!***	14-Dip	.92	.74	.65
SN74LS27N	296-14890-5-ND	Triple 3-Input NOR Gate	14-Dip	1.04	.84	.73
SN74LS30N	296-3693-5-ND	8-Input NAND Gate	14-Dip	.92	.74	.65
SN74LS32DR	296-14891-1-ND	Quad 2-Input OR Gate	14-SOIC	.72	.51	.43
SN74LS32DR	296-14891-2-ND	Quad 2-Input OR Gate	14-SOIC	505.00/2,500		
SN74LS32N	296-1658-5-ND	Quad 2-Input OR Gate	14-Dip	.68	.51	.43
SN74LS33DR	296-14892-1-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1.60	1.26	1.14
SN74LS33DR	296-14892-2-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1470.00/2,500		
SN74LS33N	296-3699-5-ND	Quad 2-Input NOR Buffer w/OC Output	14-Dip	1.62	1.30	1.14
SN74LS37N	296-26514-5-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-Dip	1.08	.87	.76
SN74LS38D	296-3704-5-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-SOIC	.92	.74	.65
SN74LS38N	296-1664-5-ND	Quad 2-Input NAND Buffer	14-Dip	.97	.76	.66
SN74LS38NSR	296-26515-1-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-SOP	1.06	.83	.73
SN74LS38NSR	296-26515-2-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-SOP	702.00/2,000		
SN74LS47N	296-3712-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.71	1.38	1.24
SN74LS47NSR	296-13223-1-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1.93	1.49	1.35
SN74LS47NSR	296-13223-2-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1486.00/2,000		
SN74LS73AN	296-26520-5-ND	Dual J-K Flip-Flop* ***NEW!***	14-Dip	1.86	1.50	1.35
SN74LS74AD	296-3743-5-ND	Dual D-Type Flip Flop* ***NEW!***	14-SOIC	.62	.49	.43
SN74LS74ADR	296-14899-1-ND	Dual D-Type Flip-Flop	14-SOIC	.72	.51	.43
SN74LS74ADR	296-14899-2-ND	Dual D-Type Flip-Flop	14-SOIC	503.75/2,500		
SN74LS74AN	296-1668-5-ND	Dual D-Type Flip-Flop	14-Dip	.68	.51	.43
SN74LS85N	296-14900-5-ND	4-Bit Magnitude Comparator	16-Dip	1.35	1.08	.95
SN74LS86ADR	296-14901-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.72	.51	.43
SN74LS86ADR	296-14901-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	505.00/2,500		
SN74LS86AN	296-1669-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.68	.51	.43
SN74LS92D	296-3747-5-ND	Divide-by-Twelve Counter	14-SOIC	2.48	2.00	1.80
SN74LS92N	296-26521-5-ND	Divide-by-Twelve Counter* ***NEW!***	14-Dip	2.79	2.25	2.03
SN74LS92NSR	296-13225-1-ND	Divide-by-Twelve Counter	14-SOP	3.15	2.43	2.21
SN74LS92NSR	296-13225-2-ND	Divide-by-Twelve Counter	14-SOP	2430.00/2,000		
SN74LS93N	296-3750-5-ND	4-Bit Binary Counter	14-Dip	2.33	1.88	1.69
SN74LS112AN	296-3637-5-ND	Dual J-K Negative-Edge-Triggered F/F	16-Dip	.75	.58	.51
SN74LS122N	296-3639-5-ND	Retriggerable Monostable Multivibrator	14-Dip	1.16	.92	.81
SN74LS122NSR	296-13221-1-ND	Retriggerable Monostable Multivibrator	14-SOP	1.25	.99	.90
SN74LS122NSR	296-13221-2-ND	Retriggerable Monostable Multivibrator	14-SOP	924.00/2,000		
SN74LS123D	296-1635-5-ND	Dual Monostable Multivibrator	16-SOIC	.86	.67	.59
SN74LS123DR	296-14881-1-ND	Dual Monostable Multivibrator	16-SOIC	.79	.62	.54
SN74LS123DR	296-14881-2-ND	Dual Monostable Multivibrator	16-SOIC	652.50/2,500		
SN74LS123N	296-1636-5-ND	Dual Monostable Multivibrator	16-Dip	.79	.62	.54
SN74LS123NSR	296-26503-1-ND	Retriggerable Monostable Multivibrator* ***NEW!***	16-SOP	.87	.68	.60
SN74LS123NSR	296-26503-2-ND	Retriggerable Monostable Multivibrator* ***NEW!***	16-SOP	574.00/2,000		
SN74LS125AD	296-1637-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.86	.67	.59
SN74LS125ADR	296-1637-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.79	.62	.54
SN74LS125ADR	296-1637-2-ND	Tri-State Quad Bus Buffer	14-SOIC	652.50/2,500		
SN74LS125AN	296-1638-5-ND	Tri-State Quad Bus Buffer	14-Dip	.79	.62	.54
SN74LS126ADR	296-14882-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.79	.62	.54
SN74LS126ADR	296-14882-2-ND	Tri-State Quad Bus Buffer	14-SOIC	652.50/2,500		
SN74LS126AN	296-3643-5-ND	Tri-State Quad Bus Buffer	14-Dip	.79	.62	.54
SN74LS132D	296-3644-5-ND	Quad 2-Input Positive-NAND Schmitt Trigger* ***NEW!***	14-SOIC	.91	.71	.62
SN74LS132N	296-3645-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.84	.65	.57
SN74LS136N	296-3647-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.92	.72	.63
SN74LS138DR	296-14883-1-ND	3-8 Line Decoder/Demux	16-SOIC	.79	.62	.54
SN74LS138DR	296-14883-2-ND	3-8 Line Decoder/Demux	16-SOIC	652.50/2,500		
SN74LS138N	296-1639-5-ND	3-8 Line Decoder/Demux	16-Dip	.79	.62	.54
SN74LS139AD	296-3649-5-ND	Dual 2-4 Line Decoder/Demux* ***NEW!***	16-SOIC	.86	.67	.59
SN74LS139AN	296-1640-5-ND	Dual 2-4 Line Decoder	16-Dip	.79	.62	.54
SN74LS145D	296-26504-5-ND	BCD-To-Decimal Decoder/Driver* ***NEW!***	16-SOIC	1.13	.91	.80
SN74LS145N	296-1641-5-ND	BCD-To-Decimal Decoder/Driver	16-Dip	1.04	.84	.73
SN74LS148N	296-3651-5-ND	8-3 Line Priority Encoder	16-Dip	1.54	1.24	1.08
SN74LS151N	296-1644-5-ND	8-1 Data Selector/Multiplexer	16-Dip	.97	.76	.66
SN74LS153N	296-3654-5-ND	Dual 4-1 Data Selector/Mux* ***NEW!***	16-Dip	.97	.76	.66
SN74LS156N	296-3655-5-ND	Dual 2-4 Decoder/Demux* ***NEW!***	16-Dip	.97	.76	.66
SN74LS157DR	296-14884-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.75	.58	.51
SN74LS157DR	296-14884-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	616.25/2,500		
SN74LS157N	296-1645-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.75	.58	.51
SN74LS161AN	296-1646-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.84	.65	.57
SN74LS161ANSR	296-3660-2-ND	4-Bit Synchronous Binary Counter	16-SOP	606.00/2,000		
SN74LS163AN	296-3661-5-ND	Sync. 4-Bit Binary Counter	16-Dip	.75	.58	.51
SN74LS164D	296-26506-5-ND	8-Bit Shift Register* ***NEW!***	14-SOIC	.82	.64	.56
SN74LS164N	296-1647-5-ND	8-Bit Shift Register	14-Dip	.75	.58	.51
SN74LS165AN	296-14885-5-ND	Parallel Load 8-Bit Shift Register	16-Dip	.75	.58	.51
SN74LS175N	296-1648-5-ND	Quad D-Type Flip-Flop	16-Dip	.88	.69	.60
SN74LS191N	296-14886-5-ND	Sync. Up/Down Counter with Down/Up Mode Control	16-Dip	1.04	.84	.73
SN74LS193N	296-1649-5-ND	4-Bit Up/Down Counter	16-Dip	1.04	.84	.73
SN74LS221D	296-3673-5-ND	Dual Mono Multivibrator	16-SOIC	1.30	1.05	.92
SN74LS221N	296-3674-5-ND	Dual Mono Multivibrator	16-Dip	1.19	.96	.84
SN74LS240DW	296-1650-5-ND	Octal Buffer/Line Driver	20-SOIC	.88	.71	.62
SN74LS240DWR	296-1650-1-ND	Octal Buffer/Line Driver	20-SOIC	.92	.72	.63
SN74LS240DWR	296-1650-2-ND	Octal Buffer/Line Driver	20-SOIC	609.00/2,000		
SN74LS240N	296-1651-5-ND	Octal Buffer/Line Driver	20-Dip	.92	.72	.63
SN74LS240NSR	296-26508-1-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	1.02	.79	.70
SN74LS240NSR	296-26508-2-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	670.00/2,000		
SN74LS241N	296-14887-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.92	.72	.63
SN74LS244DBR	296-26509-1-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SSOP	1.06	.83	.73
SN74LS244DBR	296-26509-2-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SSOP	702.00/2,000		
SN74LS244DW	296-1213-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.92	.74	.65
SN74LS244DWR	296-1213-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.97	.75	.66
SN74LS244DWR	296-1213-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	638.00/2,000		
SN74LS244N	296-1653-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.97	.76	.66
SN74LS244NSR	296-3676-1-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	1.06	.83	.73
SN74LS244NSR	296-3676-2-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	702.00/2,000		
SN74LS245DBR	296-26510-1-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-SSOP	1.06	.83	.73
SN74LS245DBR	296-26510-2-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-SSOP	702.00/2,000		
SN74LS245DW	296-1214-5-ND	Octal Bus Transceiver	20-SOIC	.92	.74	.65
SN74LS245DWR	296-1214-1-ND	Octal Bus Transceiver	20-SOIC	.97	.75	.66
SN74LS245DWR	296-1214-2-ND	Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74LS245N	296-1655-5-ND	Octal Bus Transceiver	20-Dip	.97	.76	.66
SN74LS245NSR	296-3677-1-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-SOP	1.06	.83	.73
SN74LS245NSR	296-3677-2-ND	Tri-St. Octal Bus Transceiver* ***NEW!***	20-SOP	702.00/2,000		
SN74LS247D	296-3678-5-ND	BCD to 7-Segment Decoder/Driver	16-SOIC	1.86	1.50	1.35
SN74LS247N	296-3679-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.71	1.38	1.24
SN74LS251N	296-14888-5-ND	Tri-State 8-1 Data Selector/Mux	16-Dip	.97	.76	.66
SN74LS257BN	296-1656-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.97	.76	.66
SN74LS259BN	296-14889-5-ND	8-Bit Addressable Latch	16-Dip	1.08	.87	.76
SN74LS266N	296-3681-5-ND	Quad 2-Input Exclusive NOR Gate with OC Output	14-Dip	1.08	.87	.76
SN74LS273DW	296-26512-5-ND	Octal D-Type Flip-Flop* ***NEW!***	20-SOIC	.88	.71	.62
SN74LS273DWR	296-3682-1-ND	Octal D-Type Flip-Flop	20-SOIC	.92	.72	.63
SN74LS273DWR	296-3682-2-ND	Octal D-Type Flip-Flop	20-SOIC	609.00/2,000		
SN74LS273N	296-1657-5-ND	Octal D-Type Flip-Flop	20-Dip	.92	.72	.63
SN74LS279AN	296-3684-5-ND	Quad S-R Latch	16-Dip	1.23	.99	.87
SN74LS279ANSR	296-13222-1-ND	Quad S-R Latch	16-SOP	1.34	1.06	.96
SN74LS279ANSR	296-13222-2-ND	Quad S-R Latch	16-SOP	986.00/2,000		
SN74LS280N	296-3687-5-ND	9-Bit Odd/Even Parity Generator/Checker	14-Dip	1.23	.99	.87
SN74LS367AN	296-3701-5-ND	Tri-State Hex Bus Driver	16-Dip	1.12	.90	.79
SN74LS368AN	296-3702-5-ND	6-Bit Buffer/Line Driver	16-Dip	1.35	1.08	.95
SN74LS373DW	296-1659-5-ND	Octal D-Type Latch	20-SOIC	.96	.75	.65
SN74LS373DWR	296-14893-1-ND	Octal D-Type Latch	20-SOIC	.88	.68	.60
SN74LS373DWR	296-14893-2-ND	Octal D-Type Latch	20-SOIC	580.00/2,000		
SN74LS373N	296-1660-5-ND	Octal D-Type Latch	20-Dip	.88	.69	.60
SN74LS374DW	296-1661-5-ND	Octal D-Type Flip-Flop	20-SOIC	.96	.75	.65

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS **DigiReel®** *(Cont.)*

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LS374DWR	296-14894-1-ND	Octal D-Type Flip-Flop	20-SOIC	.88	.68	.60
SN74LS374DWR	296-14894-2-ND	Octal D-Type Flip-Flop	20-SOIC	580.00/2,000		
SN74LS374N	296-1662-5-ND	Octal D-Type Flip-Flop	20-Dip	.88	.69	.60
SN74LS374NSR	296-26513-1-ND	Octal D-Type Latch/Flip-Flop* ***NEW!***	20-SOP	.97	.75	.66
SN74LS374NSR	296-26513-2-ND	Octal D-Type Latch/Flip-Flop* ***NEW!***	20-SOP	638.00/2,000		
SN74LS377N	296-1663-5-ND	Octal D-Type Flip-Flop	20-Dip	1.30	1.04	.91
SN74LS390N	296-26516-5-ND	Dual 4-Bit Decade/Binary Counter* ***NEW!***	16-Dip	1.62	1.30	1.14
SN74LS393N	296-1665-5-ND	Dual 4-Bit Binary Counter	14-Dip	1.16	.93	.81
SN74LS399N	296-14895-5-ND	Quad 2-Input Mux with Storage	16-Dip	2.17	1.75	1.58
SN74LS423N	296-3707-5-ND	Dual Retrig. Mono Multivibrator	16-Dip	2.95	2.38	2.14
SN74LS540N	296-3715-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.54	1.24	1.08
SN74LS541DW	296-3716-5-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOIC	1.26	1.01	.89
SN74LS541DWR	296-3716-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.14	.90	.81
SN74LS541DWR	296-3716-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	840.00/2,000		
SN74LS541N	296-1666-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.16	.93	.81
SN74LS541NSR	296-26517-1-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	1.25	.99	.90
SN74LS541NSR	296-26517-2-ND	Tri-State Octal Buffer/Line Driver* ***NEW!***	20-SOP	924.00/2,000		
SN74LS590N	296-3718-5-ND	8-Bit Binary Counter	16-Dip	10.00	8.20	7.40
SN74LS595DR	296-14896-1-ND	8-Bit Shift Register with Output Latch	16-SOIC	10.60	8.80	8.00
SN74LS595DR	296-14896-2-ND	8-Bit Shift Register with Output Latch	16-SOIC	13000.00/2,500		
SN74LS595N	296-15070-5-ND	8-Bit Shift Register with Output Latch	16-Dip	11.00	9.02	8.14
SN74LS624N	296-3723-5-ND	Voltage-Controlled Oscillator* ***NEW!***	14-Dip	3.50	2.82	2.57
SN74LS640-1N	296-26518-5-ND	Octal Bus Transceiver* ***NEW!***	20-Dip	1.86	1.50	1.35
SN74LS640N	296-14897-5-ND	Octal Bus Transceiver	20-Dip	1.86	1.50	1.35
SN74LS645-1N	296-3732-5-ND	Octal Bus Transceiver* ***NEW!***	20-Dip	2.02	1.63	1.47
SN74LS645-1NSR	296-13224-1-ND	Tri-State Octal Bus Transceiver	20-SOP	2.28	1.76	1.60
SN74LS645-1NSR	296-13224-2-ND	Tri-State Octal Bus Transceiver	20-SOP	1756.00/2,000		
SN74LS645N	296-26519-5-ND	Octal Bus Transceiver* ***NEW!***	20-Dip	2.02	1.63	1.47
SN74LS682N	296-14898-5-ND	8-Bit Magnitude/Identity Comparator	20-Dip	2.33	1.88	1.69
SN74LS688N	296-1667-5-ND	8-Bit Magnitude Comparator	20-Dip	2.48	2.00	1.80
LV Family						
CLV4051ATPWRG4Q1	296-23909-1-ND	8-Ch. Analog Mux/Demux	16-TSSOP	.62	.44	.37
CLV4051ATPWRG4Q1	296-23909-2-ND	8-Ch. Analog Mux/Demux	16-TSSOP	348.00/2,000		
CLV4053ATPWRG4Q1	296-24242-1-ND	Triple 2-Channel Analog Mux/Demux* ***NEW!***	16-TSSOP	.62	.44	.37
CLV4053ATPWRG4Q1	296-24242-2-ND	Triple 2-Channel Analog Mux/Demux* ***NEW!***	16-TSSOP	348.00/2,000		
SN74LV00AD	296-1670-5-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.55	.37	.30
SN74LV00ADR	296-1670-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.51	.34	.28
SN74LV00ADR	296-1670-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	288.75/2,500		
SN74LV00ADBR	296-3751-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.56	.37	.31
SN74LV00ADBR	296-3751-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP	254.00/2,000		
SN74LV00ADGVR	296-3752-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.51	.34	.28
SN74LV00ADGVR	296-3752-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	232.00/2,000		
SN74LV00ANSR	296-13226-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.56	.37	.31
SN74LV00ANSR	296-13226-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	254.00/2,000		
SN74LV00APW	296-26522-5-ND	Quad 2-Input Pos. NAND Gate* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV00APWR	296-3753-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.51	.34	.28
SN74LV00APWR	296-3753-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	232.00/2,000		
SN74LV00ARGYR	296-13927-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.56	.37	.31
SN74LV00ARGYR	296-13927-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	381.00/3,000		
SN74LV02AD	296-1671-5-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.47	.41
SN74LV02ADBR	296-3754-1-ND	Quad 2-Input NOR Gate	14-SSOP	.66	.51	.45
SN74LV02ADBR	296-3754-2-ND	Quad 2-Input NOR Gate	14-SSOP	435.00/2,000		
SN74LV02ADGVR	296-16706-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.66	.51	.45
SN74LV02ADGVR	296-16706-2-ND	Quad 2-Input NOR Gate	14-TVSOP	435.00/2,000		
SN74LV02ANSR	296-26523-1-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOP	.66	.51	.45
SN74LV02ANSR	296-26523-2-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOP	436.00/2,000		
SN74LV02APWR	296-14902-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.66	.51	.45
SN74LV02APWR	296-14902-2-ND	Quad 2-Input NOR Gate	14-TSSOP	435.00/2,000		
SN74LV02ARGYR	296-13928-1-ND	Quad 2-Input NOR Gate	14-QFN	.69	.49	.42
SN74LV02ARGYR	296-13928-2-ND	Quad 2-Input NOR Gate	14-QFN	582.00/3,000		
SN74LV04AD	296-1672-5-ND	Hex Inverter	14-SOIC	.55	.37	.30
SN74LV04ADBR	296-3755-1-ND	Hex Inverter	14-SSOP	.56	.37	.31
SN74LV04ADBR	296-3755-2-ND	Hex Inverter	14-SSOP	254.00/2,000		
SN74LV04ADGVR	296-3756-1-ND	Hex Inverter	14-TVSOP	.51	.34	.28
SN74LV04ADGVR	296-3756-2-ND	Hex Inverter	14-TVSOP	232.00/2,000		
SN74LV04ANSR	296-26525-1-ND	Hex Inverter* ***NEW!***	14-SOP	.56	.37	.31
SN74LV04ANSR	296-26525-2-ND	Hex Inverter* ***NEW!***	14-SOP	254.00/2,000		
SN74LV04APW	296-26526-5-ND	Hex Inverter* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV04APWR	296-3757-1-ND	Hex Inverter	14-TSSOP	.51	.34	.28
SN74LV04APWR	296-3757-2-ND	Hex Inverter	14-TSSOP	232.00/2,000		
SN74LV04ARGYR	296-13929-1-ND	Hex Inverter	14-QFN	.56	.37	.31
SN74LV04ARGYR	296-13929-2-ND	Hex Inverter	14-QFN	381.00/3,000		
SN74LV04ATPWREP	296-22305-1-ND	Hex Inverter	14-TSSOP	.92	.72	.63
SN74LV04ATPWREP	296-22305-2-ND	Hex Inverter	14-TSSOP	609.00/2,000		
SN74LV05ADGVR	296-14313-1-ND	Hex Inverter with OD Output	14-TVSOP	.51	.34	.28
SN74LV05ADGVR	296-14313-2-ND	Hex Inverter with OD Output	14-TVSOP	232.00/2,000		
SN74LV05ADR	296-3758-1-ND	Hex Inverter with OD Output	14-SOIC	.51	.34	.28
SN74LV05ADR	296-3758-2-ND	Hex Inverter with OD Output	14-SOIC	290.00/2,500		
SN74LV05APWR	296-3759-1-ND	Hex Inverter with OD Output	14-TSSOP	.51	.34	.28
SN74LV05APWR	296-3759-2-ND	Hex Inverter with OD Output	14-TSSOP	232.00/2,000		
SN74LV06AD	296-26527-5-ND	Hex Inverter Buffer/Driver with OD Out* ***NEW!***	14-SOICN	.55	.37	.30
SN74LV06ADBR	296-3760-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP	.56	.37	.31
SN74LV06ADBR	296-3760-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP	254.00/2,000		
SN74LV06ADGVR	296-3761-1-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP	.51	.34	.28
SN74LV06ADGVR	296-3761-2-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP	232.00/2,000		
SN74LV06ADR	296-3762-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC	.51	.34	.28
SN74LV06ADR	296-3762-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC	290.00/2,500		
SN74LV06APW	296-26528-5-ND	Hex Inverter Buffer/Driver with OD Out* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV07AD	296-3764-5-ND	Hex Buffer/Driver with OD Out	14-SOIC	.55	.37	.30
SN74LV07ADR	296-3764-1-ND	Hex Buffer/Driver with OD Out	14-SOIC	.51	.34	.28
SN74LV07ADR	296-3764-2-ND	Hex Buffer/Driver with OD Out	14-SOIC	290.00/2,500		
SN74LV07ADGVR	296-3766-1-ND	Hex Buffer/Driver with OD Out	14-TVSOP	.51	.34	.28
SN74LV07ADGVR	296-3766-2-ND	Hex Buffer/Driver with OD Out	14-TVSOP	232.00/2,000		
SN74LV07ANSR	296-26529-1-ND	Hex Buffer/Driver with OD Out* ***NEW!***	14-SOP	.56	.37	.31
SN74LV07ANSR	296-26529-2-ND	Hex Buffer/Driver with OD Out* ***NEW!***	14-SOP	254.00/2,000		
SN74LV07APW	296-26530-5-ND	Hex Buffer/Driver with OD Out* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV07APWR	296-3767-1-ND	Hex Buffer/Driver with OD Out	14-TSSOP	.51	.34	.28
SN74LV07APWR	296-3767-2-ND	Hex Buffer/Driver with OD Out	14-TSSOP	232.00/2,000		
SN74LV08AD	296-1673-5-ND	Quad 2-Input AND Gate	14-SOIC	.55	.37	.30
SN74LV08ADBR	296-3768-1-ND	Quad 2-Input AND Gate	14-SSOP	.56	.37	.31
SN74LV08ADBR	296-3768-2-ND	Quad 2-Input AND Gate	14-SSOP	254.00/2,000		
SN74LV08ADGVR	296-3769-1-ND	Quad 2-Input AND Gate	14-TVSOP	.51	.34	.28
SN74LV08ADGVR	296-3769-2-ND	Quad 2-Input AND Gate	14-TVSOP	232.00/2,000		
SN74LV08AMPWREP	296-19441-1-ND	Quad 2-Input AND Gate	14-TSSOP	1.60	1.26	1.14
SN74LV08AMPWREP	296-19441-2-ND	Quad 2-Input AND Gate	14-TSSOP	1176.00/2,000		
SN74LV08ANSR	296-26532-1-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOP	.56	.37	.31
SN74LV08ANSR	296-26532-2-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOP	254.00/2,000		
SN74LV08APW	296-26533-5-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV08APWR	296-3770-1-ND	Quad 2-Input AND Gate	14-TSSOP	.51	.34	.28
SN74LV08APWR	296-3770-2-ND	Quad 2-Input AND Gate	14-TSSOP	232.00/2,000		
SN74LV08ARGYR	296-13930-1-ND	Quad 2-Input AND Gate	14-QFN	.56	.37	.31
SN74LV08ARGYR	296-13930-2-ND	Quad 2-Input AND Gate	14-QFN	381.00/3,000		
SN74LV08ATPWREP	296-22306-1-ND	Quad 2-Input AND Gate	14-TSSOP	.97	.75	.66
SN74LV08ATPWREP	296-22306-2-ND	Quad 2-Input AND Gate	14-TSSOP	638.00/2,000		
SN74LV08ATPWRG4Q1	296-23911-1-ND	Quad 2-Input AND Gate	14-TSSOP	.57	.38	.31
SN74LV08ATPWRG4Q1	296-23911-2-ND	Quad 2-Input AND Gate	14-TSSOP	258.00/2,000		
SN74LV10AD	296-3771-5-ND	Triple 3-Input NAND Gate	14-SOIC	.55	.37	.30
SN74LV10ADR	296-3771-1-ND	Triple 3-Input NAND Gate	14-SOIC	.51	.34	.28
SN74LV10ADR	296-3771-2-ND	Triple 3-Input NAND Gate	14-SOIC	288.75/2,500		
SN74LV10ADBR	296-3772-1-ND	Triple 3-Input NAND Gate	14-SSOP	.56	.37	.31
SN74LV10ADBR	296-3772-2-ND	Triple 3-Input NAND Gate	14-SSOP	254.00/2,000		
SN74LV10ADGVR	296-3773-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.51	.34	.28
SN74LV10ADGVR	296-3773-2-ND	Triple 3-Input NAND Gate	14-TVSOP	232.00/2,000		
SN74LV10APWR	296-9824-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.51	.34	.28
SN74LV10APWR	296-9824-2-ND	Triple 3-Input NAND Gate	14-TSSOP	231.00/2,000		
SN74LV11ADBR	296-9825-1-ND	Triple 3-Input AND Gate	14-SSOP	.66	.51	.45
SN74LV11ADBR	296-9825-2-ND	Triple 3-Input AND Gate	14-SSOP	435.00/2,000		
SN74LV11ADGVR	296-9826-1-ND	Triple 3-Input AND Gate	14-TVSOP	.66	.51	.45
SN74LV11ADGVR	296-9826-2-ND	Triple 3-Input AND Gate	14-TVSOP	435.00/2,000		
SN74LV11ADR	296-9827-1-ND	Triple 3-Input AND Gate	14-SOIC	.66	.51	.45
SN74LV11ADR	296-9827-2-ND	Triple 3-Input AND Gate	14-SOIC	545.00/2,500		
SN74LV11APWR	296-9828-1-ND	Triple 3-Input AND Gate	14-TSSOP	.66	.51	.45
SN74LV11APWR	296-9828-2-ND	Triple 3-Input AND Gate	14-TSSOP	436.00/2,000		
SN74LV11ATPWRG4Q1	296-23912-1-ND	Triple 3-Input AND Gate	14-TSSOP	.77	.60	.53
SN74LV11ATPWRG4Q1	296-23912-2-ND	Triple 3-Input AND Gate	14-TSSOP	510.40/2,000		
SN74LV14AD	296-1678-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.55	.37	.30
SN74LV14ADR	296-1678-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.51	.34	.28
SN74LV14ADR	296-1678-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	288.75/2,500		
SN74LV14ADBR	296-3783-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.56	.37	.31
SN74LV14ADBR	296-3783-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	254.00/2,000		
SN74LV14ADGVR	296-3784-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.51	.34	.28
SN74LV14ADGVR	296-3784-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	232.00/2,000		
SN74LV14AMDREP	296-22309-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	1.48	1.17	1.06
SN74LV14AMDREP	296-22309-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	1365.00/2,500		
SN74LV14AMPWREP	296-19442-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1.60	1.26	1.14
SN74LV14AMPWREP	296-19442-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1176.00/2,000		
SN74LV14ANSR	296-26542-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	.56	.37	.31
SN74LV14ANSR	296-26542-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	254.00/2,000		
SN74LV14APWR	296-3785-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.51	.34	.28
SN74LV14APWR	296-3785-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	232.00/2,000		
SN74LV14ARGYR	296-13935-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.56	.37	.31
SN74LV14ARGYR	296-13935-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	381.00/3,000		
SN74LV14ATPWREP	296-22310-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.97	.75	.66
SN74LV14ATPWREP	296-22310-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	638.00/2,000		
SN74LV14ATPWRG4Q1	296-23914-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.57	.38	.31
SN74LV14ATPWRG4Q1	296-23914-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	258.00/2,000		
SN74LV20AD	296-3794-5-ND	Dual 4-Input NAND Gate	14-SOIC	.96	.75	.65
SN74LV20ADR	296-3794-1-ND	Dual 4-Input NAND Gate	14-SOIC	.88	.68	.60
SN74LV20ADR	296-3794-2-ND	Dual 4-Input NAND Gate	14-SOIC	725.00/2,500		
SN74LV20ADBR	296-9838-1-ND	Dual 4-Input NAND Gate	14-SSOP	.97	.75	.66
SN74LV20ADBR	296-9838-2-ND	Dual 4-Input NAND Gate	14-SSOP	638.00/2,000		
SN74LV20ADGVR	296-3795-1-ND	Dual 4-Input NAND Gate	14-TVSOP	.88	.68	.60
SN74LV20ADGVR	296-3795-2-ND	Dual 4-Input NAND Gate	14-TVSOP	580.00/2,000		
SN74LV20APWR	296-3796-1-ND	Dual 4-Input NAND Gate	14-TSSOP	.88	.68	.60
SN74LV20APWR	296-3796-2-ND	Dual 4-Input NAND Gate	14-TSSOP	580.00/2,000		
SN74LV21ADR	296-9839-1-ND	Dual 4-Input AND Gate	14-SOIC	.88	.68	.60
SN74LV21ADR	296-9839-2-ND	Dual 4-Input AND Gate	14-SOIC	725.00/2,500		
SN74LV21ADBR	296-3798-1-ND	Dual 4-Input AND Gate	14-SSOP	.97	.75	.66
SN74LV21ADBR	296-3798-2-ND	Dual 4-Input AND Gate	14-SSOP	638.00/2,000		
SN74LV21ADGVR	296-3799-1-ND	Dual 4-Input AND Gate	14-TVSOP	.88	.68	.60
SN74LV21ADGVR	296-3799-2-ND	Dual 4-Input AND Gate	14-TVSOP	580.00/2,000		
SN74LV21APWR	296-3800-1-ND	Dual 4-Input AND Gate	14-TSSOP	.88	.68	.60
SN74LV21APWR	296-3800-2-ND	Dual 4-Input AND Gate	14-TSSOP	580.00/2,000		
SN74LV27ADR	296-3813-1-ND	Triple 3-Input NOR Gate	14-SOIC	.66	.51	.45
SN74LV27ADR	296-3813-2-ND	Triple 3-Input NOR Gate	14-SOIC	545.00/2,500		
SN74LV27ADBR	296-3814-1-ND	Triple 3-Input NOR Gate	14-SSOP	.73	.57	.50
SN74LV27ADBR	296-3814-2-ND	Triple 3-Input NOR Gate	14-SSOP	478.00/2,000		
SN74LV27ADGVR	296-3815-1-ND	Triple 3-Input NOR Gate	14-TVSOP	.66	.51	.45
SN74LV27ADGVR	296-3815-2-ND	Triple 3-Input NOR Gate	14-TVSOP	435.00/2,000		
SN74LV32AD	296-1686-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.55	.37	.30
SN74LV32ADBR	296-3817-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.56	.37	.31
SN74LV32ADBR	296-3817-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	254.00/2,000		
SN74LV32ADGVR	296-3818-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.51	.34	.28
SN74LV32ADGVR	296-3818-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	232.00/2,000		
SN74LV32AMPWREP	296-19445-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	1.60	1.26	1.14
SN74LV32AMPWREP	296-19445-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	1176.00/2,000		
SN74LV32ANSR	296-13232-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.56	.37	.31
SN74LV32ANSR	296-13232-2-ND	Quad 2-Input Positive OR Gate	14-SOP	254.00/2,000		
SN74LV32APW	296-26551-5-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-TSSOP	.55	.37	.30
SN74LV32APWR	296-3819-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.51	.34	.28
SN74LV32APWR	296-3819-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	232.00/2,000		
SN74LV32ARGYR	296-13941-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.56	.37	.31
SN74LV32ARGYR	296-13941-2-ND	Quad 2-Input Positive OR Gate	14-QFN	381.00/3,000		
SN74LV32ATPWREP	296-22311-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.97	.75	.66
SN74LV32ATPWREP	296-22311-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	638.00/2,000		
SN74LV32ATPWRG4Q1	296-23793-1-ND	Quad 2-In. Positive OR Gate	14-TSSOP	.57	.38	.31
SN74LV32ATPWRG4Q1	296-23793-2-ND	Quad 2-In. Positive OR Gate	14-TSSOP	258.00/2,000		
SN74LV74AD	296-1692-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14- SOIC	.63	.47	.40
SN74LV74ADBR	296-3844-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SSOP	.67	.47	.40
SN74LV74ADBR	296-3844-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SSOP	376.00/2,000		
SN74LV74ADGVR	296-9842-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TVSOP	.61	.43	.37

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(Continued)

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
SN74LV74ADGVR	296-9842-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TVSOP	341.00/2,000		
SN74LV74AMPWREP	296-19446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	1.96	1.52	1.38
SN74LV74AMPWREP	296-19446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	1512.00/2,000		
SN74LV74ANSR	296-26567-1-ND	Dual Positive-Edge-Triggered D-Type Flip Flop* ***NEW!***	14-SOP	.67	.47	.40
SN74LV74ANSR	296-26567-2-ND	Dual Positive-Edge-Triggered D-Type Flip Flop* ***NEW!***	14-SOP	376.00/2,000		
SN74LV74APW	296-26568-5-ND	Dual Positive-Edge-Triggered D-Type Flip Flop* ***NEW!***	14-TSSOP	.63	.47	.40
SN74LV74APWR	296-3846-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	.61	.43	.37
SN74LV74APWR	296-3846-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	342.00/2,000		
SN74LV74AQDRG4Q1	296-24835-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	14-SOIC	.70	.49	.42
SN74LV74AQDRG4Q1	296-24835-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop* ***NEW!***	14-SOIC	492.50/2,500		
SN74LV74AQDRQ1	296-20685-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SOIC	.70	.49	.42
SN74LV74AQDRQ1	296-20685-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SOIC	492.50/2,500		
SN74LV74ARGYR	296-13953-1-ND	Dual D-Type Flip-Flop	14-QFN	.67	.47	.40
SN74LV74ARGYR	296-13953-2-ND	Dual D-Type Flip-Flop	14-QFN	564.00/3,000		
SN74LV86AD	296-1693-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.63	.47	.40
SN74LV86ADBR	296-14320-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.67	.47	.40
SN74LV86ADBR	296-14320-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	376.00/2,000		
SN74LV86ADGVR	296-14321-1-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	.61	.43	.37
SN74LV86ADGVR	296-14321-2-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	342.00/2,000		
SN74LV86APWR	296-14322-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.61	.43	.37
SN74LV86APWR	296-14322-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	342.00/2,000		
SN74LV123ADGVR	296-12991-1-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	.66	.47	.40
SN74LV123ADGVR	296-12991-2-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	372.00/2,000		
SN74LV123ADR	296-9829-1-ND	Dual Retrig. Monostable Multivibrator	16-SOIC	.66	.47	.40
SN74LV123ADR	296-9829-2-ND	Dual Retrig. Monostable Multivibrator	16-SOIC	465.00/2,500		
SN74LV123APW	296-26535-5-ND	Dual Retrig. Monostable Multivibrator* ***NEW!***	16-TSSOP	.68	.51	.44
SN74LV123APWR	296-3774-1-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	.66	.47	.40
SN74LV123APWR	296-3774-2-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	372.00/2,000		
SN74LV123ARGYR	296-13931-1-ND	Dual Retrig. Monostable Multivibrator	16-VQFN	.73	.51	.44
SN74LV123ARGYR	296-13931-2-ND	Dual Retrig. Monostable Multivibrator	16-VQFN	615.00/3,000		
SN74LV123ATPWREP	296-22308-1-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	1.37	1.08	.98
SN74LV123ATPWREP	296-22308-2-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	1008.00/2,000		
SN74LV123ATPWRG4Q1	296-23913-1-ND	Dual Retrig. Mono Mulitvibrator	16-TSSOP	.74	.52	.45
SN74LV123ATPWRG4Q1	296-23913-2-ND	Dual Retrig. Mono Mulitvibrator	16-TSSOP	416.00/2,000		
SN74LV125AD	296-1674-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74LV125ADGVR	296-3775-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.58	.38	.32
SN74LV125ADGVR	296-3775-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	264.00/2,000		
SN74LV125APW	296-26536-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.46	.34	.29
SN74LV125ARGYR	296-13932-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.64	.42	.35
SN74LV125ARGYR	296-13932-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	435.00/3,000		
SN74LV125ATDBR	296-21027-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.58	.38	.32
SN74LV125ATDBR	296-21027-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	264.00/2,000		
SN74LV125ATDR	296-21028-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74LV125ATDR	296-21028-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74LV125ATNSR	296-21029-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.58	.38	.32
SN74LV125ATNSR	296-21029-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	264.00/2,000		
SN74LV125ATRGYR	296-21031-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.55	.39	.33
SN74LV125ATRGYR	296-21031-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	465.00/3,000		
SN74LV126AD	296-14315-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.46	.34	.29
SN74LV126ADBR	296-15718-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.42	.35
SN74LV126ADBR	296-15718-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	290.00/2,000		
SN74LV126ADGVR	296-14191-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.58	.38	.32
SN74LV126ADGVR	296-14191-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	264.00/2,000		
SN74LV126ADR	296-14021-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.58	.38	.32
SN74LV126ADR	296-14021-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	330.00/2,500		
SN74LV126APW	296-26537-5-ND	Tri-St. Quad Bus Buffer Gate* ***NEW!***	14-TSSOP	.46	.34	.29
SN74LV126APWR	296-12992-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.58	.38	.32
SN74LV126APWR	296-12992-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	264.00/2,000		
SN74LV132AD	296-1675-5-ND	Quad NAND Gate	14-SOIC	.46	.34	.29
SN74LV132ADR	296-1675-1-ND	Quad NAND Gate	14-SOIC	.58	.38	.32
SN74LV132ADR	296-1675-2-ND	Quad NAND Gate	14-SOIC	330.00/2,500		
SN74LV132ADBR	296-3777-1-ND	Quad NAND Gate	14-SSOP	.64	.42	.35
SN74LV132ADBR	296-3777-2-ND	Quad NAND Gate	14-SSOP	290.00/2,000		
SN74LV132ADGVR	296-3778-1-ND	Quad NAND Gate	14-TVSOP	.58	.38	.32
SN74LV132ADGVR	296-3778-2-ND	Quad NAND Gate	14-TVSOP	264.00/2,000		
SN74LV132APWR	296-3779-1-ND	Quad NAND Gate	14-TSSOP	.58	.38	.32
SN74LV132APWR	296-3779-2-ND	Quad NAND Gate	14-TSSOP	264.00/2,000		
SN74LV138AD	296-1676-5-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74LV138ADGVR	296-23261-1-ND	3-to-8 Line Decoder/Demultiplexer	16-TVSOP	.58	.38	.32
SN74LV138ADGVR	296-23261-2-ND	3-to-8 Line Decoder/Demultiplexer	16-TVSOP	264.00/2,000		
SN74LV138ADR	296-1676-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	.58	.38	.32
SN74LV138ADR	296-1676-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SOIC	330.00/2,500		
SN74LV138ANSR	296-26539-1-ND	3-to-8 Line Decoder/Demux.* ***NEW!***	16-SOP	.64	.42	.35
SN74LV138ANSR	296-26539-2-ND	3-to-8 Line Decoder/Demux.* ***NEW!***	16-SOP	290.00/2,000		
SN74LV138APWR	296-3780-1-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74LV138APWR	296-3780-2-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74LV138ARGYR	296-13933-1-ND	3-to-8 Line Decoder/Demultiplexer	16-VQFN	.64	.42	.35
SN74LV138ARGYR	296-13933-2-ND	3-to-8 Line Decoder/Demultiplexer	16-VQFN	435.00/3,000		
SN74LV138ATDBR	296-21032-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	.58	.38	.32
SN74LV138ATDBR	296-21032-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SSOP	264.00/2,000		
SN74LV138ATDGVR	296-21033-1-ND	3-to-8 Line Decoder/Demultiplexer	16-TVSOP	.58	.38	.32
SN74LV138ATDGVR	296-21033-2-ND	3-to-8 Line Decoder/Demultiplexer	16-TVSOP	264.00/2,000		
SN74LV138ATNSR	296-21035-1-ND	3-to-8 Line Decoder/Demultiplexer	16-SOP	.58	.38	.32
SN74LV138ATNSR	296-21035-2-ND	3-to-8 Line Decoder/Demultiplexer	16-SOP	264.00/2,000		
SN74LV138ATPWR	296-21036-1-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74LV138ATPWR	296-21036-2-ND	3-to-8 Line Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74LV138ATRGYR	296-21037-1-ND	3-to-8 Line Decoder/Demultiplexer	16-VQFN	.58	.38	.32
SN74LV138ATRGYR	296-21037-2-ND	3-to-8 Line Decoder/Demultiplexer	16-VQFN	396.00/3,000		
SN74LV139AD	296-1677-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.46	.34	.29
SN74LV139ADBR	296-3781-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.64	.42	.35
SN74LV139ADBR	296-3781-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	290.00/2,000		
SN74LV139APWR	296-3782-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.58	.38	.32
SN74LV139APWR	296-3782-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	264.00/2,000		
SN74LV139ARGYR	296-13934-1-ND	Dual 2-4 Decoder/Demultiplexer	16-VQFN	.64	.42	.35
SN74LV139ARGYR	296-13934-2-ND	Dual 2-4 Decoder/Demultiplexer	16-VQFN	435.00/3,000		
SN74LV157ADBR	296-9830-1-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	1.00	.80	.72
SN74LV157ADBR	296-9830-2-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	740.00/2,000		
SN74LV157ADGVR	296-9831-1-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP	1.06	.82	.72
SN74LV157ADGVR	296-9831-2-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP	696.00/2,000		
SN74LV157ADR	296-9832-1-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC	1.06	.82	.72
SN74LV157ADR	296-9832-2-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC	870.00/2,500		
SN74LV157APWR	296-9833-1-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP	1.06	.82	.72
SN74LV157APWR	296-9833-2-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP	696.00/2,000		
SN74LV161ADBR	296-12342-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.64	.42	.35
SN74LV161ADBR	296-12342-2-ND	4-Bit Sync. Binary Counter	16-SSOP	290.00/2,000		
SN74LV161ADGVR	296-12343-1-ND	4-Bit Sync. Binary Counter	16-TVSOP	.58	.38	.32
SN74LV161ADGVR	296-12343-2-ND	4-Bit Sync. Binary Counter	16-TVSOP	264.00/2,000		
SN74LV161ADR	296-13227-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.58	.38	.32
SN74LV161ADR	296-13227-2-ND	4-Bit Sync. Binary Counter	16-SOIC	330.00/2,500		
SN74LV161APWR	296-12344-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.58	.38	.32
SN74LV161APWR	296-12344-2-ND	4-Bit Sync. Binary Counter	16-TSSOP	264.00/2,000		
SN74LV163ADBR	296-12345-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.64	.42	.35
SN74LV163ADBR	296-12345-2-ND	4-Bit Sync. Binary Counter	16-SSOP	290.00/2,000		
SN74LV163ADR	296-11666-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.58	.38	.32
SN74LV163ADR	296-11666-2-ND	4-Bit Sync. Binary Counter	16-SOIC	330.00/2,500		
SN74LV163APWR	296-12347-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.58	.38	.32
SN74LV163APWR	296-12347-2-ND	4-Bit Sync. Binary Counter	16-TSSOP	264.00/2,000		
SN74LV163ARGYR	296-13936-1-ND	4-Bit Sync. Binary Counter	16-VQFN	.64	.42	.35
SN74LV163ARGYR	296-13936-2-ND	4-Bit Sync. Binary Counter	16-VQFN	435.00/3,000		
SN74LV164AD	296-1680-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.46	.34	.29
SN74LV164ANSR	296-13228-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	.64	.42	.35
SN74LV164ANSR	296-13228-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	290.00/2,000		
SN74LV164APWR	296-3788-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.58	.38	.32
SN74LV164APWR	296-3788-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	264.00/2,000		
SN74LV164ARGYR	296-18207-1-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN	.64	.42	.35
SN74LV164ARGYR	296-18207-2-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN	435.00/3,000		
SN74LV165AD	296-1681-5-ND	8-Bit Parallel Load Shift Register	16-SOIC	.60	.45	.38
SN74LV165ADGVR	296-14316-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.81	.63	.56
SN74LV165ADGVR	296-14316-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP	536.00/2,000		
SN74LV165ADR	296-1681-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	.58	.41	.35
SN74LV165ADR	296-1681-2-ND	8-Bit Parallel Load Shift Register	16-SOIC	407.50/2,500		
SN74LV165AMPWREP	296-19443-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	3.69	3.02	2.71
SN74LV165AMPWREP	296-19443-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP	3271.80/2,000		
SN74LV165APWR	296-3790-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.58	.41	.35
SN74LV165APWR	296-3790-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP	326.00/2,000		
SN74LV165ARGYR	296-13937-1-ND	8-Bit Parallel Load Shift Register	16-VQFN	.64	.45	.39
SN74LV165ARGYR	296-13937-2-ND	8-Bit Parallel Load Shift Register	16-VQFN	540.00/3,000		
SN74LV166ADBR	296-9834-1-ND	8-Bit Parallel Load Shift Register	16-SSOP	1.38	1.09	.99
SN74LV166ADBR	296-9834-2-ND	8-Bit Parallel Load Shift Register	16-SSOP	1016.00/2,000		
SN74LV166ADGVR	296-9835-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	1.25	.99	.90
SN74LV166ADGVR	296-9835-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP	924.00/2,000		
SN74LV166ADR	296-9836-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	1.25	.99	.90
SN74LV166ADR	296-9836-2-ND	8-Bit Parallel Load Shift Register	16-SOIC	1155.00/2,500		
SN74LV166APWR	296-9837-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	1.25	.99	.90
SN74LV166APWR	296-9837-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP	924.00/2,000		
SN74LV174ADGVR	296-23262-1-ND	Hex D-Type Flip-Flop with Clear	16-TVSOP	.81	.63	.56
SN74LV174ADGVR	296-23262-2-ND	Hex D-Type Flip-Flop with Clear	16-TVSOP	536.00/2,000		
SN74LV174APWR	296-3792-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.58	.41	.35
SN74LV174APWR	296-3792-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	326.00/2,000		
SN74LV175AD	296-1682-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	1.01	.81	.71
SN74LV175ADGVR	296-23263-1-ND	Quad D-Type Flip-Flop with Clear	16-TVSOP	1.06	.82	.72
SN74LV175ADGVR	296-23263-2-ND	Quad D-Type Flip-Flop with Clear	16-TVSOP	696.00/2,000		
SN74LV175ANSR	296-13229-1-ND	Quad D-Type Flip-Flop with Clear	16-SOP	1.00	.80	.72
SN74LV175ANSR	296-13229-2-ND	Quad D-Type Flip-Flop with Clear	16-SOP	740.00/2,000		
SN74LV175APWR	296-3793-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	1.06	.82	.72
SN74LV175APWR	296-3793-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	696.00/2,000		
SN74LV221AD	296-3801-5-ND	Dual Mono Multivibrator	16-SOIC	1.68	1.35	1.18
SN74LV221ADR	296-3801-1-ND	Dual Mono Multivibrator	16-SOIC	1.52	1.20	1.08
SN74LV221ADR	296-3801-2-ND	Dual Mono Multivibrator	16-SOIC	1400.00/2,500		
SN74LV221ANSR	296-12473-1-ND	Dual Mono Multivibrator	16-SOP	1.67	1.32	1.19
SN74LV221ANSR	296-12473-2-ND	Dual Mono Multivibrator	16-SOP	1232.00/2,000		
SN74LV240ADBR	296-3802-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.70	.55	.48
SN74LV240ADBR	296-3802-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	464.00/2,000		
SN74LV240ADGVR	296-3803-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.77	.60	.53
SN74LV240ADGVR	296-3803-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	507.50/2,000		
SN74LV240ADW	296-1683-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.50	.44
SN74LV240APW	296-26545-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.64	.50	.44
SN74LV240APWR	296-12348-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.70	.55	.48
SN74LV240APWR	296-12348-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	464.00/2,000		
SN74LV244ADBR	296-3804-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.61	.43	.37
SN74LV244ADBR	296-3804-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	342.00/2,000		
SN74LV244ADGVR	296-3805-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.55	.39	.33
SN74LV244ADGVR	296-3805-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	310.00/2,000		
SN74LV244ADW	296-1684-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.57	.42	.36
SN74LV244AMDWREP	296-19444-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	3.15	2.43	2.21
SN74LV244AMDWREP	296-19444-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	2430.00/2,000		
SN74LV244ANSR	296-13230-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.61	.43	.37
SN74LV244ANSR	296-13230-2-ND	Tri-State Octal Buffer/Driver	20-SOP	342.00/2,000		
SN74LV244APWR	296-3806-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.39	.33
SN74LV244APWR	296-3806-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	310.00/2,000		
SN74LV244ATDGVR	296-19256-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.55	.39	.33
SN74LV244ATDGVR	296-19256-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	310.00/2,000		
SN74LV244ATDWR	296-19257-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.39	.33
SN74LV244ATDWR	296-19257-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	310.00/2,000		
SN74LV244ATPWR	296-19258-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.39	.33
SN74LV244ATPWR	296-19258-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	310.00/2,000		
SN74LV244ATRGYR	296-19259-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	.61	.43	.37
SN74LV244ATRGYR	296-19259-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	513.00/3,000		
SN74LV245ADBR	296-3807-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.61	.43	.37
SN74LV245ADBR	296-3807-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	342.00/2,000		
SN74LV245ADGVR	296-3808-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.55	.39	.33
SN74LV245ADGVR	296-3808-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	310.00/2,000		
SN74LV245ADW	296-1685-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.57	.42	.36
SN74LV245AGQNR	296-12091-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.66	.51	.45
SN74LV245AGQNR	296-12091-2-ND	Tri-State Octal Bus Transceiver	20-BGA	240.00/1,000		
SN74LV245ANSR	296-13231-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.61	.43	.37
SN74LV245ANSR	296-13231-2-ND	Tri-State Octal Bus Transceiver	20-SOP	342.00/2,000		
SN74LV245APWR	296-3809-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.55	.39	.33
SN74LV245APWR	296-3809-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	310.00/2,000		
SN74LV245ARGYR	296-13939-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.61	.43	.37
SN74LV245ARGYR	296-13939-2-ND	Tri-State Octal Bus Transceiver	20-QFN	513.00/3,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV245ATDBR	296-17767-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.61	.43	.37
SN74LV245ATDBR	296-17767-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	342.00/2,000		
SN74LV245ATDGVR	296-17768-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.55	.39	.33
SN74LV245ATDGVR	296-17768-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	310.00/2,000		
SN74LV245ATDWR	296-17769-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.39	.33
SN74LV245ATDWR	296-17769-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	310.00/2,000		
SN74LV245ATNSR	296-17770-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.61	.43	.37
SN74LV245ATNSR	296-17770-2-ND	Tri-State Octal Bus Transceiver	20-SOP	342.00/2,000		
SN74LV245ATPWR	296-17771-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.55	.39	.33
SN74LV245ATPWR	296-17771-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	310.00/2,000		
SN74LV245ATRGYR	296-17772-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.61	.43	.37
SN74LV245ATRGYR	296-17772-2-ND	Tri-State Octal Bus Transceiver	20-QFN	513.00/3,000		
SN74LV245AZQNR	296-23384-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.66	.51	.45
SN74LV245AZQNR	296-23384-2-ND	Tri-State Octal Bus Transceiver	20-BGA	240.00/1,000		
SN74LV273ADBR	296-12349-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.67	.47	.40
SN74LV273ADBR	296-12349-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	376.00/2,000		
SN74LV273ADW	296-3811-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.63	.47	.40
SN74LV273ADWR	296-14904-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.61	.43	.37
SN74LV273ADWR	296-14904-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	342.00/2,000		
SN74LV273APW	296-26550-5-ND	Octal D-Type Flip-Flop with Clear* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LV273APWR	296-3812-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.61	.43	.37
SN74LV273APWR	296-3812-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	342.00/2,000		
SN74LV273ARGYR	296-13940-1-ND	Octal D-Type Flip-Flop with Clear	20-VQFN	.67	.47	.40
SN74LV273ARGYR	296-13940-2-ND	Octal D-Type Flip-Flop with Clear	20-VQFN	564.00/3,000		
SN74LV367ADGVR	296-13491-1-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	1.48	1.17	1.06
SN74LV367ADGVR	296-13491-2-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	1092.00/2,000		
SN74LV367APWR	296-12350-1-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	1.48	1.17	1.06
SN74LV367APWR	296-12350-2-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	1092.00/2,000		
SN74LV373ADGVR	296-23671-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TVSOP	.61	.43	.37
SN74LV373ADGVR	296-23671-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TVSOP	342.00/2,000		
SN74LV373ADWR	296-16657-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.61	.43	.37
SN74LV373ADWR	296-16657-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	342.00/2,000		
SN74LV373ADW	296-1687-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.63	.47	.40
SN74LV373AGQNR	296-12092-1-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	.73	.57	.50
SN74LV373AGQNR	296-12092-2-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	264.00/1,000		
SN74LV373APWR	296-14318-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.61	.43	.37
SN74LV373APWR	296-14318-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	342.00/2,000		
SN74LV373ARGYR	296-13942-1-ND	Tri-St. Octal D-Type Transparent Latch	20-VQFN	.67	.47	.40
SN74LV373ARGYR	296-13942-2-ND	Tri-St. Octal D-Type Transparent Latch	20-VQFN	564.00/3,000		
SN74LV373ATDWR	296-21039-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.61	.43	.37
SN74LV373ATDWR	296-21039-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	342.00/2,000		
SN74LV373ATNSR	296-21040-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	.61	.43	.37
SN74LV373ATNSR	296-21040-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	342.00/2,000		
SN74LV373ATPWR	296-21041-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.61	.43	.37
SN74LV373ATPWR	296-21041-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	342.00/2,000		
SN74LV373ATRGYR	296-21042-1-ND	Tri-St. Octal D-Type Transparent Latch	20-VQFN	.61	.43	.37
SN74LV373ATRGYR	296-21042-2-ND	Tri-St. Octal D-Type Transparent Latch	20-VQFN	513.00/3,000		
SN74LV374ADBR	296-12553-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	.67	.47	.40
SN74LV374ADBR	296-12553-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	376.00/2,000		
SN74LV374ADW	296-1688-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.63	.47	.40
SN74LV374AGQNR	296-12093-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	.73	.57	.50
SN74LV374AGQNR	296-12093-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	264.00/1,000		
SN74LV374APW	296-26552-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LV374APWR	296-3820-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.61	.43	.37
SN74LV374APWR	296-3820-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	342.00/2,000		
SN74LV374ARGYR	296-13943-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-VQFN	.67	.47	.40
SN74LV374ARGYR	296-13943-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-VQFN	564.00/3,000		
SN74LV374ATDBR	296-21043-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	.61	.43	.37
SN74LV374ATDBR	296-21043-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	342.00/2,000		
SN74LV374ATDWR	296-21044-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.61	.43	.37
SN74LV374ATDWR	296-21044-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	342.00/2,000		
SN74LV374ATNSR	296-21045-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	.61	.43	.37
SN74LV374ATNSR	296-21045-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOP	342.00/2,000		
SN74LV374ATPWR	296-21046-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.61	.43	.37
SN74LV374ATPWR	296-21046-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	342.00/2,000		
SN74LV374ATPWREP	296-22312-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	1.82	1.44	1.30
SN74LV374ATPWREP	296-22312-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	1344.00/2,000		
SN74LV374ATPWRG4Q1	296-24751-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F* ***NEW!***	20-TSSOP	.68	.48	.41
SN74LV374ATPWRG4Q1	296-24751-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F* ***NEW!***	20-TSSOP	382.00/2,000		
SN74LV393ADBR	296-12351-1-ND	Dual 4-Bit Binary Counter	14-SSOP	1.17	.93	.84
SN74LV393ADBR	296-12351-2-ND	Dual 4-Bit Binary Counter	14-SSOP	862.00/2,000		
SN74LV393ADGVR	296-13233-1-ND	Dual 4-Bit Binary Counter	14-TVSOP	1.06	.84	.76
SN74LV393ADGVR	296-13233-2-ND	Dual 4-Bit Binary Counter	14-TVSOP	784.00/2,000		
SN74LV393ADR	296-11664-1-ND	Dual 4-Bit Binary Counter	14-SOIC	1.06	.84	.76
SN74LV393ADR	296-11664-2-ND	Dual 4-Bit Binary Counter	14-SOIC	980.00/2,500		
SN74LV393ANSR	296-14192-1-ND	Dual 4-Bit Binary Counter	14-SOIC	1.17	.93	.84
SN74LV393ANSR	296-14192-2-ND	Dual 4-Bit Binary Counter	14-SOIC	862.00/2,000		
SN74LV393APW	296-26553-5-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-TSSOP	1.18	.95	.83
SN74LV393ATPWREP	296-22313-1-ND	Dual 4-Bit Binary Counter	14-TSSOP	2.63	2.03	1.84
SN74LV393ATPWREP	296-22313-2-ND	Dual 4-Bit Binary Counter	14-TSSOP	2026.00/2,000		
SN74LV393ATPWRG4Q1	296-24752-1-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-TSSOP	1.19	.95	.85
SN74LV393ATPWRG4Q1	296-24752-2-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-TSSOP	880.00/2,000		
SN74LV540ADGVR	296-14319-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.06	.82	.72
SN74LV540ADGVR	296-14319-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	696.00/2,000		
SN74LV540ADWR	296-3837-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.06	.82	.72
SN74LV540ADWR	296-3837-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	696.00/2,000		
SN74LV540APWR	296-26559-1-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	1.06	.82	.72
SN74LV540APWR	296-26559-2-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	696.00/2,000		
SN74LV540ARGYR	296-25821-1-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-QFN	1.06	.84	.76
SN74LV540ARGYR	296-25821-2-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-QFN	1176.00/3,000		
SN74LV541ADBR	296-3838-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.09	.86	.78
SN74LV541ADBR	296-3838-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	800.00/2,000		
SN74LV541ADW	296-1689-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.09	.88	.77
SN74LV541ANSR	296-26560-1-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-SOP	1.09	.86	.78
SN74LV541ANSR	296-26560-2-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-SOP	800.00/2,000		
SN74LV541APW	296-26561-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	1.09	.88	.77
SN74LV541APWR	296-13700-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.99	.78	.71
SN74LV541APWR	296-13700-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	728.00/2,000		
SN74LV541ARGYR	296-13949-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	1.09	.86	.78
SN74LV541ARGYR	296-13949-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	1200.00/3,000		
SN74LV541ATDGVR	296-19261-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.06	.82	.72
SN74LV541ATDGVR	296-19261-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	696.00/2,000		
SN74LV541ATDWR	296-18662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.06	.82	.72
SN74LV541ATDWR	296-18662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	696.00/2,000		
SN74LV541ATPWR	296-18698-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.06	.82	.72
SN74LV541ATPWR	296-18698-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	696.00/2,000		
SN74LV541ATRGYR	296-18725-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.00	.80	.72
SN74LV541ATRGYR	296-18725-2-ND	Tri-State Octal Buffer/Driver	20-QFN	1110.00/3,000		
SN74LV573ADBR	296-3839-1-ND	Tri-State Octal D-Type Latch	20-SSOP	.67	.47	.40
SN74LV573ADBR	296-3839-2-ND	Tri-State Octal D-Type Latch	20-SSOP	376.00/2,000		
SN74LV573ADW	296-1690-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.63	.47	.40
SN74LV573ADWR	296-1690-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.61	.43	.37
SN74LV573ADWR	296-1690-2-ND	Tri-State Octal D-Type Latch	20-SOIC	342.00/2,000		
SN74LV573AGQNR	296-12094-1-ND	Tri-St. Octal Transparent D-Type Latch	20-BGA	.73	.57	.50
SN74LV573AGQNR	296-12094-2-ND	Tri-St. Octal Transparent D-Type Latch	20-BGA	264.00/1,000		
SN74LV573APW	296-26562-5-ND	Tri-St. Octal Transparent D-Type Latch* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LV573APWR	296-3840-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.61	.43	.37
SN74LV573APWR	296-3840-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	342.00/2,000		
SN74LV573ARGYR	296-13950-1-ND	Tri-State Octal D-Type Latch	20-VQFN	.67	.47	.40
SN74LV573ARGYR	296-13950-2-ND	Tri-State Octal D-Type Latch	20-VQFN	564.00/3,000		
SN74LV573ATDWR	296-18743-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.61	.43	.37
SN74LV573ATDWR	296-18743-2-ND	Tri-State Octal D-Type Latch	20-SOIC	342.00/2,000		
SN74LV573ATPWR	296-18745-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.61	.43	.37
SN74LV573ATPWR	296-18745-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	342.00/2,000		
SN74LV573ATRGYR	296-18746-1-ND	Tri-State Octal D-Type Latch	20-VQFN	.67	.47	.40
SN74LV573ATRGYR	296-18746-2-ND	Tri-State Octal D-Type Latch	20-VQFN	564.00/3,000		
SN74LV574ADW	296-1691-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.63	.47	.40
SN74LV574AGQNR	296-12095-1-ND	Tri-State D-Type Flip-Flop	20-BGA	.73	.57	.50
SN74LV574AGQNR	296-12095-2-ND	Tri-State D-Type Flip-Flop	20-BGA	264.00/1,000		
SN74LV574APWR	296-12285-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.61	.43	.37
SN74LV574APWR	296-12285-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	342.00/2,000		
SN74LV574ARGYR	296-13951-1-ND	Tri-State Octal D-Type Flip-Flop	20-VQFN	.67	.47	.40
SN74LV574ARGYR	296-13951-2-ND	Tri-State Octal D-Type Flip-Flop	20-VQFN	564.00/3,000		
SN74LV594ADBR	296-3841-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	1.09	.86	.78
SN74LV594ADBR	296-3841-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	800.00/2,000		
SN74LV594APWR	296-3842-1-ND	8-Bit Shift Register w/Output Register* ***NEW!***	16-TSSOP	.99	.78	.71
SN74LV594APWR	296-3842-2-ND	8-Bit Shift Register w/Output Register* ***NEW!***	16-TSSOP	728.00/2,000		
SN74LV595ADR	296-18747-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	1.06	.82	.72
SN74LV595ADR	296-18747-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	870.00/2,500		
SN74LV595AIPWREP	296-22320-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	1.89	1.46	1.33
SN74LV595AIPWREP	296-22320-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	1458.00/2,000		
SN74LV595APWR	296-3843-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	1.06	.82	.72
SN74LV595APWR	296-3843-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	696.00/2,000		
SN74LV595AQPWRQ1	296-24633-1-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-TSSOP	1.05	.83	.75
SN74LV595AQPWRQ1	296-24633-2-ND	Tri-State 8-Bit Shift Register* ***NEW!***	16-TSSOP	772.00/2,000		
SN74LV595ARGYR	296-13952-1-ND	Tri-State 8-Bit Shift Register	16-VQFN	1.00	.80	.72
SN74LV595ARGYR	296-13952-2-ND	Tri-State 8-Bit Shift Register	16-VQFN	1110.00/3,000		
SN74LV4040AD	296-26554-5-ND	12-Bit Async. Binary Counter* ***NEW!***	16-SOIC	1.68	1.35	1.18
SN74LV4040ADBR	296-3821-1-ND	12-Bit Async. Binary Counter	16-SSOP	1.67	1.32	1.19
SN74LV4040ADBR	296-3821-2-ND	12-Bit Async. Binary Counter	16-SSOP	1232.00/2,000		
SN74LV4040ADGVR	296-3822-1-ND	12-Bit Async. Binary Counter	16-TVSOP	1.52	1.20	1.08
SN74LV4040ADGVR	296-3822-2-ND	12-Bit Async. Binary Counter	16-TVSOP	1120.00/2,000		
SN74LV4040AMPWREP	296-23470-1-ND	12-Bit Async. Binary Counter	16-TSSOP	2.80	2.16	1.96
SN74LV4040AMPWREP	296-23470-2-ND	12-Bit Async. Binary Counter	16-TSSOP	2160.00/2,000		
SN74LV4040APWR	296-3824-1-ND	12-Bit Async. Binary Counter	16-TSSOP	1.52	1.20	1.08
SN74LV4040APWR	296-3824-2-ND	12-Bit Async. Binary Counter	16-TSSOP	1120.00/2,000		
SN74LV4046ADGVR	296-21048-1-ND	High Speed CMOS Logic PLL	16-TVSOP	1.67	1.32	1.19
SN74LV4046ADGVR	296-21048-2-ND	High Speed CMOS Logic PLL	16-TVSOP	1232.00/2,000		
SN74LV4046ADR	296-21049-1-ND	High Speed CMOS Logic PLL	16-SOIC	1.52	1.20	1.08
SN74LV4046ADR	296-21049-2-ND	High Speed CMOS Logic PLL	16-SOIC	1400.00/2,500		
SN74LV4046AN	296-21340-5-ND	High Speed CMOS Logic PLL	16-Dip	1.68	1.35	1.18
SN74LV4046ANSR	296-21050-1-ND	High Speed CMOS Logic PLL	16-SOP	1.52	1.20	1.08
SN74LV4046ANSR	296-21050-2-ND	High Speed CMOS Logic PLL	16-SOP	1120.00/2,000		
SN74LV4046APWR	296-21051-1-ND	High Speed CMOS Logic PLL	16-TSSOP	1.52	1.20	1.08
SN74LV4046APWR	296-21051-2-ND	High Speed CMOS Logic PLL	16-TSSOP	1120.00/2,000		
SN74LV4051ADBR	296-3825-1-ND	8-Channel Analog Mux/Demux	16-SSOP	.61	.43	.37
SN74LV4051ADBR	296-3825-2-ND	8-Channel Analog Mux/Demux	16-SSOP	342.00/2,000		
SN74LV4051ADGVR	296-3826-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.55	.39	.33
SN74LV4051ADGVR	296-3826-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	310.00/2,000		
SN74LV4051ADR	296-3827-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.55	.39	.33
SN74LV4051ADR	296-3827-2-ND	8-Channel Analog Mux/Demux	16-SOIC	387.50/2,500		
SN74LV4051AN	296-3828-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.33
SN74LV4051ANSR	296-17113-1-ND	8-Channel Analog Mux/Demux	16-SOP	.61	.43	.37
SN74LV4051ANSR	296-17113-2-ND	8-Channel Analog Mux/Demux	16-SOP	342.00/2,000		
SN74LV4051APW	296-26556-5-ND	8-Ch. Analog Mux/Demux* ***NEW!***	16-TSSOP	.57	.42	.36
SN74LV4051APWR	296-3829-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.55	.39	.33
SN74LV4051APWR	296-3829-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	310.00/2,000		
SN74LV4051ATDREP	296-22314-1-ND	8-Channel Analog Mux/Demux	16-SOIC	2.63	2.03	1.84
SN74LV4051ATDREP	296-22314-2-ND	8-Channel Analog Mux/Demux	16-SOIC	2531.25/2,500		
SN74LV4051ATPWRQ1	296-19260-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.62	.44	.37
SN74LV4051ATPWRQ1	296-19260-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	348.00/2,000		
SN74LV4052ADGVR	296-12706-1-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	.55	.39	.33
SN74LV4052ADGVR	296-12706-2-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	310.00/2,000		
SN74LV4052ADR	296-16707-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.55	.39	.33
SN74LV4052ADR	296-16707-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	387.50/2,500		
SN74LV4052AN	296-3830-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.52	.39	.33
SN74LV4052APW	296-3831-5-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.57	.42	.36
SN74LV4052APWR	296-3831-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.55	.39	.33
SN74LV4052APWR	296-3831-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	310.00/2,000		
SN74LV4052ARGYR	296-13946-1-ND	Dual 4-Channel Analog Mux/Demux	16-VQFN	.61	.43	.37
SN74LV4052ARGYR	296-13946-2-ND	Dual 4-Channel Analog Mux/Demux	16-VQFN	513.00/3,000		
SN74LV4052ATDREP	296-22316-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	2.63	2.03	1.84
SN74LV4052ATDREP	296-22316-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	2531.25/2,500		
SN74LV4052ATPWREP	296-22317-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	2.63	2.03	1.84
SN74LV4052ATPWREP	296-22317-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	2025.00/2,000		
SN74LV4053ADR	296-16708-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.55	.39	.33
SN74LV4053ADR	296-16708-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	387.50/2,500		
SN74LV4053AN	296-3832-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.52	.39	.33
SN74LV4053APW	296-3833-5-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.57	.42	.36
SN74LV4053APWR	296-3833-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.39	.33
SN74LV4053APWR	296-3833-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	310.00/2,000		
SN74LV4053ARGYR	296-13947-1-ND	Triple 2-Channel Analog Mux/Demux	16-VQFN	.61	.43	.37
SN74LV4053ARGYR	296-13947-2-ND	Triple 2-Channel Analog Mux/Demux	16-VQFN	513.00/3,000		
SN74LV4053ATDREP	296-22318-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	2.63	2.03	1.84
SN74LV4053ATDREP	296-22318-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	2531.25/2,500		
SN74LV4053ATPWREP	296-22319-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	2.63	2.03	1.84
SN74LV4053ATPWREP	296-22319-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	2025.00/2,000		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV4053ATDRQ1	296-24243-1-ND	Triple 2-Channel Analog Mux/ Demux* ***NEW!***	16-SOIC	.62	.44	.37
SN74LV4053ATDRQ1	296-24243-2-ND	Triple 2-Channel Analog Mux/ Demux* ***NEW!***	16-SOIC	435.00/2,500		
SN74LV4066ADGVR	296-24360-1-ND	Quad Bilateral Analog Switch* ***NEW!***	14-TVSOP	1.52	1.20	1.08
SN74LV4066ADGVR	296-24360-2-ND	Quad Bilateral Analog Switch* ***NEW!***	14-TVSOP	1120.00/2,000		
SN74LV4066ADR	296-3834-1-ND	Quad Bilateral Analog Switch	14-SOIC	1.52	1.20	1.08
SN74LV4066ADR	296-3834-2-ND	Quad Bilateral Analog Switch	14-SOIC	1400.00/2,500		
SN74LV4066AN	296-3835-5-ND	Quad Bilateral Analog Switch	14-Dip	1.54	1.24	1.08
SN74LV4066APW	296-3836-5-ND	Quad Bilateral Analog Switch	14-TSSOP	1.68	1.35	1.18
SN74LV4066APWR	296-3836-1-ND	Quad Bilateral Analog Switch	14-TSSOP	1.52	1.20	1.08
SN74LV4066APWR	296-3836-2-ND	Quad Bilateral Analog Switch	14-TSSOP	1120.00/2,000		
SN74LV4066ARGYR	296-13948-1-ND	Quad Bilateral Analog Switch	14-QFN	1.67	1.32	1.19
SN74LV4066ARGYR	296-13948-2-ND	Quad Bilateral Analog Switch	14-QFN	1848.00/3,000		
SN74LV4320AGKFR	296-17919-1-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	5.40	4.41	3.96
SN74LV4320AGKFR	296-17919-2-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	2520.00/1,000		
CF4320HZKFR	296-19720-1-ND	CompactFlash™ Bus-Interface Chip	114-BGA	6.00	4.90	4.40
CF4320HZKFR	296-19720-2-ND	CompactFlash™ Bus-Interface Chip	114-BGA	2800.00/1,000		
SN74LV8151DGVR	296-18748-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	1.10	.87	.79
SN74LV8151DGVR	296-18748-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	812.00/2,000		
SN74LV8151DW	296-23672-5-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	1.22	.98	.86
SN74LV8151DWR	296-18749-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	1.10	.87	.79
SN74LV8151DWR	296-18749-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	812.00/2,000		
SN74LV8151NT	296-17840-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-Dip	1.64	1.32	1.15
SN74LV8151PWR	296-17994-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	1.10	.87	.79
SN74LV8151PWR	296-17994-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	812.00/2,000		
SN74LV8153PWR	296-18750-1-ND	Serial-to-Parallel Interface	20-TSSOP	2.28	1.76	1.60
SN74LV8153PWR	296-18750-2-ND	Serial-to-Parallel Interface	20-TSSOP	1756.00/2,000		
SN74LV8153QPWRG4Q1	296-24836-1-ND	Serial-to-Parallel Interface* ***NEW!***	20-TSSOP	2.45	1.89	1.72
SN74LV8153QPWRG4Q1	296-24836-2-ND	Serial-to-Parallel Interface* ***NEW!***	20-TSSOP	1890.00/2,000		
SN74LV8153QPWRQ1	296-17728-1-ND	Serial-to-Parallel Interface	20-TSSOP	2.45	1.89	1.72
SN74LV8153QPWRQ1	296-17728-2-ND	Serial-to-Parallel Interface	20-TSSOP	1890.00/2,000		
SN74LV8154MPWREP	296-22578-1-ND	Tri-State Dual 16-Bit Binary Counter	20-TSSOP	4.44	3.63	3.26
SN74LV8154MPWREP	296-22578-2-ND	Tri-State Dual 16-Bit Binary Counter	20-TSSOP	3936.80/2,000		
SN74LV161284DGGR	296-1215-1-ND	19-Bit Bus Interface	48-TSSOP	4.50	3.68	3.30
SN74LV161284DGGR	296-1215-2-ND	19-Bit Bus Interface	48-TSSOP	3990.00/2,000		
SN74LV161284DL	296-1679-5-ND	19-Bit Bus Interface	48-SSOP	5.46	4.39	4.00
SN74LV161284DLR	296-3786-1-ND	19-Bit Bus Interface	48-SSOP	4.95	4.05	3.63
SN74LV161284DLR	296-3786-2-ND	19-Bit Bus Interface	48-SSOP	2310.00/1,000		
LVC Family						
1P1G125QDCKRQ1	296-18348-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.50	.33	.27
1P1G125QDCKRQ1	296-18348-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	342.00/3,000		
1P1G126QDBVRQ1	296-23596-1-ND	Tri-St. Single Bus Buffer Gate	SOT-23-5	.50	.33	.27
1P1G126QDBVRQ1	296-23596-2-ND	Tri-St. Single Bus Buffer Gate	SOT-23-5	342.00/3,000		
1P1G3157QDBVRQ1	296-18349-1-ND	SPDT Analog Switch	SOT-23-6	.50	.33	.27
1P1G3157QDBVRQ1	296-18349-2-ND	SPDT Analog Switch	SOT-23-6	342.00/3,000		
1P1G3157QDCKRQ1	296-15610-1-ND	SPDT Analog Switch	SC70-6	.50	.33	.27
1P1G3157QDCKRQ1	296-15610-2-ND	SPDT Analog Switch	SC70-6	342.00/3,000		
CLVC1G125IDCKREP	296-19721-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.72	.51	.43
CLVC1G125IDCKREP	296-19721-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	606.00/3,000		
CLVC1G125MDCKREP	296-20744-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	1.41	1.11	1.00
CLVC1G125MDCKREP	296-20744-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	1554.00/3,000		
CLVC1G125QDBVRQ1	296-23463-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.50	.33	.27
CLVC1G125QDBVRQ1	296-23463-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	342.00/3,000		
CLVC1G126IDCKREP	296-22110-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.72	.51	.43
CLVC1G126IDCKREP	296-22110-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	604.50/3,000		
CLVC1G175MDCKREP	296-22111-1-ND	Single D-Type F/F with Async. Clear	SC70-6	1.29	1.02	.92
CLVC1G175MDCKREP	296-22111-2-ND	Single D-Type F/F with Async. Clear	SC70-6	1428.00/3,000		
CLVC139AQPWRG4Q1	296-23523-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.51	.36	.31
CLVC139AQPWRG4Q1	296-23523-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	286.00/2,000		
CLVC244AQPWRG4Q1	296-23657-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.63	.45	.38
CLVC244AQPWRG4Q1	296-23657-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	356.00/2,000		
CLVC574AQPWRG4Q1	296-23791-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.70	.49	.42
CLVC574AQPWRG4Q1	296-23791-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	394.00/2,000		
CLVC16244AIDGGREP	296-22108-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.98	2.30	2.09
CLVC16244AIDGGREP	296-22108-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2295.00/2,000		
CLVC16373AMDLREP	296-22109-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	6.39	5.22	4.69
CLVC16373AMDLREP	296-22109-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	2982.00/1,000		
SN74LVC1G00DBVR	296-9845-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	.53	.31	.25
SN74LVC1G00DBVR	296-9845-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	270.00/3,000		
SN74LVC1G00DCKR	296-9846-1-ND	Single 2-Input Positive NAND Gate	SC70	.53	.31	.25
SN74LVC1G00DCKR	296-9846-2-ND	Single 2-Input Positive NAND Gate	SC70	270.00/3,000		
SN74LVC1G00DRLR	296-18007-1-ND	Single 2-Input Positive NAND Gate	SOT-5	.51	.34	.28
SN74LVC1G00DRLR	296-18007-2-ND	Single 2-Input Positive NAND Gate	SOT-5	464.00/4,000		
SN74LVC1G00IDCKREP	296-22337-1-ND	Single 2-Input Positive NAND Gate	SC70-5	.72	.51	.43
SN74LVC1G00IDCKREP	296-22337-2-ND	Single 2-Input Positive NAND Gate	SC70-5	604.50/3,000		
SN74LVC1G00MDBVREP	296-22338-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	1.29	1.02	.92
SN74LVC1G00MDBVREP	296-22338-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	1428.00/3,000		
SN74LVC1G00MDCKREP	296-22339-1-ND	Single 2-Input Positive NAND Gate	SC70-5	1.29	1.02	.92
SN74LVC1G00MDCKREP	296-22339-2-ND	Single 2-Input Positive NAND Gate	SC70-5	1428.00/3,000		
SN74LVC1G00YEAR	296-14022-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G00YEAR	296-14022-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G00YZAR	296-14023-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G00YZAR	296-14023-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G00YZPR	296-14353-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.61	.43	.37
SN74LVC1G00YZPR	296-14353-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	513.00/3,000		
SN74LVC1G02DRLR	296-18318-1-ND	Single 2-Input Positive NOR Gate	SOT-5	.51	.34	.28
SN74LVC1G02DRLR	296-18318-2-ND	Single 2-Input Positive NOR Gate	SOT-5	464.00/4,000		
SN74LVC1G02MDCKREP	296-22340-1-ND	Single 2-Input Positive NOR Gate	SC70-5	1.29	1.02	.92
SN74LVC1G02MDCKREP	296-22340-2-ND	Single 2-Input Positive NOR Gate	SC70-5	1428.00/3,000		
SN74LVC1G02YEAR	296-14024-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G02YEAR	296-14024-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G02YZAR	296-13249-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G02YZAR	296-13249-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G04DCKT	296-23673-1-ND	Single Inverter Gate	SC70-5	.88	.68	.60
SN74LVC1G04DCKT	296-23673-2-ND	Single Inverter Gate	SC70-5	117.50/250		
SN74LVC1G04DRLR	296-18008-1-ND	Single Inverter Gate	SOT-5	.51	.34	.28
SN74LVC1G04DRLR	296-18008-2-ND	Single Inverter Gate	SOT-5	464.00/4,000		
SN74LVC1G04DRYR	296-21814-1-ND	Single Inverter Gate	6-SON	.51	.34	.28
SN74LVC1G04DRYR	296-21814-2-ND	Single Inverter Gate	6-SON	545.00/5,000		
SN74LVC1G04MDBVREP	296-22341-1-ND	Single Inverter Gate	SOT-23-5	.79	.62	.54
SN74LVC1G04MDBVREP	296-22341-2-ND	Single Inverter Gate	SOT-23-5	783.00/3,000		
SN74LVC1G04QDBVRQ1	296-26588-1-ND	Single Inverter Gate* ***NEW!***	SOT-23-5	.61	.36	.29
SN74LVC1G04QDBVRQ1	296-26588-2-ND	Single Inverter Gate* ***NEW!***	SOT-23-5	312.00/3,000		
SN74LVC1G04QDCKRQ1	296-22895-1-ND	Single Inverter Gate	SC70-5	.61	.36	.29
SN74LVC1G04QDCKRQ1	296-22895-2-ND	Single Inverter Gate	SC70-5	312.00/3,000		
SN74LVC1G04YEAR	296-13250-1-ND	Single Inverter Gate	5-DSBGA	.84	.65	.57
SN74LVC1G04YEAR	296-13250-2-ND	Single Inverter Gate	5-DSBGA	826.50/3,000		
SN74LVC1G04YEPR	296-14354-1-ND	Single Inverter Gate	5-DSBGA	.84	.65	.57
SN74LVC1G04YEPR	296-14354-2-ND	Single Inverter Gate	5-DSBGA	826.50/3,000		
SN74LVC1G04YZAR	296-14025-1-ND	Single Inverter Gate	5-DSBGA	.84	.65	.57
SN74LVC1G04YZAR	296-14025-2-ND	Single Inverter Gate	5-DSBGA	826.50/3,000		
SN74LVC1G04YZPR	296-14355-1-ND	Single Inverter Gate	5-DSBGA	.61	.43	.37
SN74LVC1G04YZPR	296-14355-2-ND	Single Inverter Gate	5-DSBGA	513.00/3,000		
SN74LVC1G04YZVR	296-21055-1-ND	Single Inverter Gate	4-DSBGA	.55	.39	.33
SN74LVC1G04YZVR	296-21055-2-ND	Single Inverter Gate	4-DSBGA	465.00/3,000		
SN74LVC1G06DBVR	296-8483-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	.53	.31	.25
SN74LVC1G06DBVR	296-8483-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	270.00/3,000		
SN74LVC1G06DCKR	296-8484-1-ND	Single Inverter Buffer/Driver with OD Output	SC70-5	.53	.31	.25
SN74LVC1G06DCKR	296-8484-2-ND	Single Inverter Buffer/Driver with OD Output	SC70-5	270.00/3,000		
SN74LVC1G06DRLR	296-18009-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-553-5	.51	.34	.28
SN74LVC1G06DRLR	296-18009-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-553-5	464.00/4,000		
SN74LVC1G06MDCKREP	296-22342-1-ND	Single Inverter Buffer/Driver with OD Output	SC70-5	1.71	1.35	1.22
SN74LVC1G06MDCKREP	296-22342-2-ND	Single Inverter Buffer/Driver with OD Output	SC70-5	1890.00/3,000		
SN74LVC1G06YEAR	296-14292-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.84	.65	.57
SN74LVC1G06YEAR	296-14292-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	826.50/3,000		
SN74LVC1G06YEPR	296-18752-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.84	.65	.57
SN74LVC1G06YEPR	296-18752-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	826.50/3,000		
SN74LVC1G06YZAR	296-14356-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.84	.65	.57
SN74LVC1G06YZAR	296-14356-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	826.50/3,000		
SN74LVC1G06YZPR	296-20771-1-ND	Single Inverter Buffer/Driver with OD Output	5-DSBGA	.61	.43	.37
SN74LVC1G06YZPR	296-20771-2-ND	Single Inverter Buffer/Driver with OD Output	5-DSBGA	513.00/3,000		
SN74LVC1G06YZVR	296-21056-1-ND	Single Inverter Buffer/Driver with OD Output	4-DSBGA	.55	.39	.33
SN74LVC1G06YZVR	296-21056-2-ND	Single Inverter Buffer/Driver with OD Output	4-DSBGA	465.00/3,000		
SN74LVC1G07DBVR	296-8485-1-ND	Single Buffer/Driver with OD Output	SOT-23-5	.53	.31	.25
SN74LVC1G07DBVR	296-8485-2-ND	Single Buffer/Driver with OD Output	SOT-23-5	270.00/3,000		
SN74LVC1G07DCKR	296-8486-1-ND	Single Buffer/Driver with OD Output	SC70-5	.53	.31	.25
SN74LVC1G07DCKR	296-8486-2-ND	Single Buffer/Driver with OD Output	SC70-5	270.00/3,000		
SN74LVC1G07DRLR	296-18010-1-ND	Single Buffer/Driver with OD Output	SOT-5	.51	.34	.28
SN74LVC1G07DRLR	296-18010-2-ND	Single Buffer/Driver with OD Output	SOT-5	464.00/4,000		
SN74LVC1G07DRYR	296-21544-1-ND	Single Buffer/Driver with OD Output	6-SON	.51	.34	.28
SN74LVC1G07DRYR	296-21544-2-ND	Single Buffer/Driver with OD Output	6-SON	545.00/5,000		
SN74LVC1G07MDCKREP	296-22343-1-ND	Single Buffer/Driver with OD Output	SC70-5	.92	.72	.63
SN74LVC1G07MDCKREP	296-22343-2-ND	Single Buffer/Driver with OD Output	SC70-5	913.50/3,000		
SN74LVC1G07YEAR	296-13251-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.84	.65	.57
SN74LVC1G07YEAR	296-13251-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	826.50/3,000		
SN74LVC1G07YZAR	296-14026-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.84	.65	.57
SN74LVC1G07YZAR	296-14026-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	826.50/3,000		
SN74LVC1G07YZPR	296-23273-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.61	.43	.37
SN74LVC1G07YZPR	296-23273-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	513.00/3,000		
SN74LVC1G07YZVR	296-21057-1-ND	Single Buffer/Driver with OD Output	4-DSBGA	.55	.39	.33
SN74LVC1G07YZVR	296-21057-2-ND	Single Buffer/Driver with OD Output	4-DSBGA	465.00/3,000		
SN74LVC1G08DCKR	296-11602-1-ND	Single 2-Input Positive AND Gate	SC70-5	.53	.31	.25
SN74LVC1G08DCKR	296-11602-2-ND	Single 2-Input Positive AND Gate	SC70-5	270.00/3,000		
SN74LVC1G08DRLR	296-18011-1-ND	Single 2-Input Positive AND Gate	SOT-5	.51	.34	.28
SN74LVC1G08DRLR	296-18011-2-ND	Single 2-Input Positive AND Gate	SOT-5	464.00/4,000		
SN74LVC1G08DRYR	296-21815-1-ND	Single 2-Input Positive AND Gate	6-SON	.51	.34	.28
SN74LVC1G08DRYR	296-21815-2-ND	Single 2-Input Positive AND Gate	6-SON	545.00/5,000		
SN74LVC1G08IDCKREP	296-22344-1-ND	Single 2-Input Positive AND Gate	SC70-5	.72	.51	.43
SN74LVC1G08IDCKREP	296-22344-2-ND	Single 2-Input Positive AND Gate	SC70-5	604.50/3,000		
SN74LVC1G08MDBVREP	296-22345-1-ND	Single 2-Input Positive AND Gate	SOT-23-5	1.29	1.02	.92
SN74LVC1G08MDBVREP	296-22345-2-ND	Single 2-Input Positive AND Gate	SOT-23-5	1428.00/3,000		
SN74LVC1G08MDCKREP	296-20772-1-ND	Single 2-Input Positive AND Gate	SC70-5	1.29	1.02	.92
SN74LVC1G08MDCKREP	296-20772-2-ND	Single 2-Input Positive AND Gate	SC70-5	1428.00/3,000		
SN74LVC1G08QDCKRQ1	296-20728-1-ND	Single 2-Input Positive AND Gate	SC70-5	.61	.36	.29
SN74LVC1G08QDCKRQ1	296-20728-2-ND	Single 2-Input Positive AND Gate	SC70-5	312.00/3,000		
SN74LVC1G08QDBVRQ1	296-24187-1-ND	Single 2-Input Pos. AND Gate* ***NEW!***	SOT-23-5	.61	.36	.29
SN74LVC1G08QDBVRQ1	296-24187-2-ND	Single 2-Input Pos. AND Gate* ***NEW!***	SOT-23-5	312.00/3,000		
SN74LVC1G08YEAR	296-12474-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G08YEAR	296-12474-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G08YEPR	296-14357-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G08YEPR	296-14357-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G08YZAR	296-13252-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G08YZAR	296-13252-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G08YZPR	296-14358-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.61	.43	.37
SN74LVC1G08YZPR	296-14358-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	513.00/3,000		
SN74LVC1G0832DBVR	296-18753-1-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6	.61	.43	.37
SN74LVC1G0832DBVR	296-18753-2-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6	511.50/3,000		
SN74LVC1G0832DCKR	296-18754-1-ND	Single 3-Input Positive AND/OR Gate	SC70-5	.61	.43	.37
SN74LVC1G0832DCKR	296-18754-2-ND	Single 3-Input Positive AND/OR Gate	SC70-5	511.50/3,000		
SN74LVC1G0832YZPR	296-18199-1-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA	.72	.51	.43
SN74LVC1G0832YZPR	296-18199-2-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA	604.50/3,000		
SN74LVC1G10DBVR	296-18755-1-ND	Single 3-Input Positive NAND Gate	SOT-23-6	.44	.29	.24
SN74LVC1G10DBVR	296-18755-2-ND	Single 3-Input Positive NAND Gate	SOT-23-6	297.00/3,000		
SN74LVC1G10DCKR	296-17844-1-ND	Single 3-Input Positive NAND Gate	SC70-6	.44	.29	.24
SN74LVC1G10DCKR	296-17844-2-ND	Single 3-Input Positive NAND Gate	SC70-6	297.00/3,000		
SN74LVC1G10YZPR	296-18756-1-ND	Single 3-Input Positive NAND Gate	6-DSBGA	.66	.47	.40
SN74LVC1G10YZPR	296-18756-2-ND	Single 3-Input Positive NAND Gate	6-DSBGA	558.00/3,000		
SN74LVC1G11DBVR	296-16810-1-ND	Single 3-Input Positive AND Gate	SOT-23-6	.44	.29	.24
SN74LVC1G11DBVR	296-16810-2-ND	Single 3-Input Positive AND Gate	SOT-23-6	297.00/3,000		
SN74LVC1G11DCKR	296-18066-1-ND	Single 3-Input Positive AND Gate	SC70-6	.44	.29	.24
SN74LVC1G11DCKR	296-18066-2-ND	Single 3-Input Positive AND Gate	SC70-6	297.00/3,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G11MDCKREP	296-24876-1-ND	Single 3-Input Pos. AND Gate* ***NEW!***	SC70-6	1.29	1.02	.92
SN74LVC1G11MDCKREP	296-24876-2-ND	Single 3-Input Pos. AND Gate* ***NEW!***	SC70-6	1428.00/3,000		
SN74LVC1G11YZPR	296-18757-1-ND	Single 3-Input Positive AND Gate	6-DSBGA	.66	.47	.40
SN74LVC1G11YZPR	296-18757-2-ND	Single 3-Input Positive AND Gate	6-DSBGA	558.00/3,000		
SN74LVC1G14DRLR	296-18014-1-ND	Single Schmitt-Trigger Inverter	SOT-5	.51	.34	.28
SN74LVC1G14DRLR	296-18014-2-ND	Single Schmitt-Trigger Inverter	SOT-5	464.00/4,000		
SN74LVC1G14DRYR	296-21545-1-ND	Single Schmitt-Trigger Inverter	6-SON	.51	.34	.28
SN74LVC1G14DRYR	296-21545-2-ND	Single Schmitt-Trigger Inverter	6-SON	545.00/5,000		
SN74LVC1G14MDBVREP	296-22346-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.79	.62	.54
SN74LVC1G14MDBVREP	296-22346-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	783.00/3,000		
SN74LVC1G14MDCKREP	296-22347-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.79	.62	.54
SN74LVC1G14MDCKREP	296-22347-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	783.00/3,000		
SN74LVC1G14YEAR	296-13037-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.84	.65	.57
SN74LVC1G14YEAR	296-13037-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	826.50/3,000		
SN74LVC1G14YEPR	296-14362-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.84	.65	.57
SN74LVC1G14YEPR	296-14362-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	826.50/3,000		
SN74LVC1G14YZAR	296-13038-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.84	.65	.57
SN74LVC1G14YZAR	296-13038-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	826.50/3,000		
SN74LVC1G14YZPR	296-14363-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.61	.43	.37
SN74LVC1G14YZPR	296-14363-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	513.00/3,000		
SN74LVC1G17DBVR	296-11933-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.53	.31	.25
SN74LVC1G17DBVR	296-11933-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	270.00/3,000		
SN74LVC1G17DCKR	296-11934-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.53	.31	.25
SN74LVC1G17DCKR	296-11934-2-ND	Single Schmitt-Trigger Buffer	SC70-5	270.00/3,000		
SN74LVC1G17DRLR	296-18585-1-ND	Single Schmitt-Trigger Buffer	SOT-5	.51	.34	.28
SN74LVC1G17DRLR	296-18585-2-ND	Single Schmitt-Trigger Buffer	SOT-5	464.00/4,000		
SN74LVC1G17DRYR	296-21546-1-ND	Single Schmitt-Trigger Buffer	6-SON	.51	.34	.28
SN74LVC1G17DRYR	296-21546-2-ND	Single Schmitt-Trigger Buffer	6-SON	545.00/5,000		
SN74LVC1G17MDBVREP	296-21818-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	1.18	.93	.84
SN74LVC1G17MDBVREP	296-21818-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	1302.00/3,000		
SN74LVC1G17MDCKREP	296-20773-1-ND	Single Schmitt-Trigger Buffer	SC70-5	1.29	1.02	.92
SN74LVC1G17MDCKREP	296-20773-2-ND	Single Schmitt-Trigger Buffer	SC70-5	1428.00/3,000		
SN74LVC1G17QDCKRQ1	296-23709-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.61	.36	.29
SN74LVC1G17QDCKRQ1	296-23709-2-ND	Single Schmitt-Trigger Buffer	SC70-5	312.00/3,000		
SN74LVC1G17YZAR	296-15567-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.84	.65	.57
SN74LVC1G17YZAR	296-15567-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	826.50/3,000		
SN74LVC1G17YZPR	296-18761-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.61	.43	.37
SN74LVC1G17YZPR	296-18761-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	513.00/3,000		
SN74LVC1G17YZVR	296-21060-1-ND	Single Schmitt-Trigger Buffer	4-DSBGA	.61	.43	.37
SN74LVC1G17YZVR	296-21060-2-ND	Single Schmitt-Trigger Buffer	4-DSBGA	513.00/3,000		
SN74LVC1G18DBVR	296-15568-1-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6	.44	.29	.24
SN74LVC1G18DBVR	296-15568-2-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6	297.00/3,000		
SN74LVC1G18DCKR	296-15569-1-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6	.44	.29	.24
SN74LVC1G18DCKR	296-15569-2-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6	297.00/3,000		
SN74LVC1G18YEAR	296-15570-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.84	.65	.57
SN74LVC1G18YEAR	296-15570-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	826.50/3,000		
SN74LVC1G18YZAR	296-15571-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.84	.65	.57
SN74LVC1G18YZAR	296-15571-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	826.50/3,000		
SN74LVC1G18YZPR	296-25657-1-ND	Tri-State 1-of-2 Noninverting Demux* ***NEW!***	6-DSBGA	.57	.40	.34
SN74LVC1G18YZPR	296-25657-2-ND	Tri-State 1-of-2 Noninverting Demux* ***NEW!***	6-DSBGA	480.00/3,000		
SN74LVC1G19DBVR	296-16982-1-ND	1-of-2 Decoder/Demultiplexer	SOT-23-6	.44	.29	.24
SN74LVC1G19DBVR	296-16982-2-ND	1-of-2 Decoder/Demultiplexer	SOT-23-6	297.00/3,000		
SN74LVC1G19DCKR	296-17991-1-ND	1-of-2 Decoder/Demultiplexer	SC70-6	.44	.29	.24
SN74LVC1G19DCKR	296-17991-2-ND	1-of-2 Decoder/Demultiplexer	SC70-6	297.00/3,000		
SN74LVC1G19DRLR	296-18319-1-ND	1-of-2 Decoder/Demultiplexer	SOT-6	.44	.29	.24
SN74LVC1G19DRLR	296-18319-2-ND	1-of-2 Decoder/Demultiplexer	SOT-6	396.00/4,000		
SN74LVC1G19DRYR	296-21547-1-ND	1-of-2 Decoder/Demultiplexer	6-SON	.58	.38	.32
SN74LVC1G19DRYR	296-21547-2-ND	1-of-2 Decoder/Demultiplexer	6-SON	620.00/5,000		
SN74LVC1G19YEPR	296-18762-1-ND	1-of-2 Decoder/Demultiplexer	6-DSBGA	.84	.65	.57
SN74LVC1G19YEPR	296-18762-2-ND	1-of-2 Decoder/Demultiplexer	6-DSBGA	826.50/3,000		
SN74LVC1G19YZPR	296-18586-1-ND	1-of-2 Decoder/Demultiplexer	6-DSBGA	.57	.40	.34
SN74LVC1G19YZPR	296-18586-2-ND	1-of-2 Decoder/Demultiplexer	6-DSBGA	480.00/3,000		
SN74LVC1G27DBVR	296-17119-1-ND	Single 3-Input Positive NOR Gate	SOT-23-6	.44	.29	.24
SN74LVC1G27DBVR	296-17119-2-ND	Single 3-Input Positive NOR Gate	SOT-23-6	297.00/3,000		
SN74LVC1G27DCKR	296-18764-1-ND	Single 3-Input Positive NOR Gate	SC70-6	.44	.29	.24
SN74LVC1G27DCKR	296-18764-2-ND	Single 3-Input Positive NOR Gate	SC70-6	297.00/3,000		
SN74LVC1G27YEPR	296-18765-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.84	.65	.57
SN74LVC1G27YEPR	296-18765-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA	826.50/3,000		
SN74LVC1G27YZPR	296-18766-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.66	.47	.40
SN74LVC1G27YZPR	296-18766-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA	558.00/3,000		
SN74LVC1G29DCTR	296-18767-1-ND	2-of-3 Decoder/Demultiplexer	SM8	.69	.49	.42
SN74LVC1G29DCTR	296-18767-2-ND	2-of-3 Decoder/Demultiplexer	SM8	581.25/3,000		
SN74LVC1G29DCUR	296-18768-1-ND	2-of-3 Decoder/Demultiplexer	US8	.69	.49	.42
SN74LVC1G29DCUR	296-18768-2-ND	2-of-3 Decoder/Demultiplexer	US8	581.25/3,000		
SN74LVC1G29YZPR	296-18769-1-ND	2-of-3 Decoder/Demultiplexer	8-DSBGA	.81	.63	.56
SN74LVC1G29YZPR	296-18769-2-ND	2-of-3 Decoder/Demultiplexer	8-DSBGA	804.00/3,000		
SN74LVC1G32DBVR	296-9847-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.44	.29	.24
SN74LVC1G32DBVR	296-9847-2-ND	Single 2-Input Positive OR Gate	SOT-23-5	297.00/3,000		
SN74LVC1G32DCKR	296-9848-1-ND	Single 2-Input Positive OR Gate	SC70	.44	.29	.24
SN74LVC1G32DCKR	296-9848-2-ND	Single 2-Input Positive OR Gate	SC70	297.00/3,000		
SN74LVC1G32DRLR	296-18016-1-ND	Single 2-Input Positive OR Gate	SOT-5	.58	.38	.32
SN74LVC1G32DRLR	296-18016-2-ND	Single 2-Input Positive OR Gate	SOT-5	528.00/4,000		
SN74LVC1G32DRYR	296-21549-1-ND	Single 2-Input Positive OR Gate	6-SON	.58	.38	.32
SN74LVC1G32DRYR	296-21549-2-ND	Single 2-Input Positive OR Gate	6-SON	620.00/5,000		
SN74LVC1G32IDCKREP	296-22348-1-ND	Single 2-Input Positive OR Gate	SC70-5	.72	.51	.43
SN74LVC1G32IDCKREP	296-22348-2-ND	Single 2-Input Positive OR Gate	SC70-5	604.50/3,000		
SN74LVC1G32MDBVREP	296-22349-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	1.29	1.02	.92
SN74LVC1G32MDBVREP	296-22349-2-ND	Single 2-Input Positive OR Gate	SOT-23-5	1428.00/3,000		
SN74LVC1G32MDCKREP	296-22350-1-ND	Single 2-Input Positive OR Gate	SC70-5	1.29	1.02	.92
SN74LVC1G32MDCKREP	296-22350-2-ND	Single 2-Input Positive OR Gate	SC70-5	1428.00/3,000		
SN74LVC1G32QDBVRQ1	296-24202-1-ND	Single 2-Input Positive OR Gate* ***NEW!***	SOT-23-5	.50	.33	.27
SN74LVC1G32QDBVRQ1	296-24202-2-ND	Single 2-Input Positive OR Gate* ***NEW!***	SOT-23-5	342.00/3,000		
SN74LVC1G32QDCKRQ1	296-24203-1-ND	Single 2-Input Positive OR Gate* ***NEW!***	SC70-5	.50	.33	.27
SN74LVC1G32QDCKRQ1	296-24203-2-ND	Single 2-Input Positive OR Gate* ***NEW!***	SC70-5	342.00/3,000		
SN74LVC1G32YEAR	296-13039-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G32YEAR	296-13039-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G32YZAR	296-14028-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G32YZAR	296-14028-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G32YZPR	296-14365-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.66	.47	.40
SN74LVC1G32YZPR	296-14365-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	558.00/3,000		
SN74LVC1G34DBVR	296-17893-1-ND	Single Buffer Gate	SOT-23-5	.44	.29	.24
SN74LVC1G34DBVR	296-17893-2-ND	Single Buffer Gate	SOT-23-5	297.00/3,000		
SN74LVC1G34DCKR	296-17230-1-ND	Single Buffer Gate	SC70-5	.44	.29	.24
SN74LVC1G34DCKR	296-17230-2-ND	Single Buffer Gate	SC70-5	297.00/3,000		
SN74LVC1G34DRLR	296-18017-1-ND	Single Buffer Gate	SOT-5	.58	.38	.32
SN74LVC1G34DRLR	296-18017-2-ND	Single Buffer Gate	SOT-5	528.00/4,000		
SN74LVC1G34YFPR	296-23862-1-ND	Single Buffer Gate	4-DSBGA	.66	.47	.40
SN74LVC1G34YFPR	296-23862-2-ND	Single Buffer Gate	4-DSBGA	558.00/3,000		
SN74LVC1G34YZPR	296-18773-1-ND	Single Buffer Gate	5-DSBGA	.66	.47	.40
SN74LVC1G34YZPR	296-18773-2-ND	Single Buffer Gate	5-DSBGA	558.00/3,000		
SN74LVC1G34YZVR	296-21062-1-ND	Single Buffer Gate	4-DSBGA	.66	.47	.40
SN74LVC1G34YZVR	296-21062-2-ND	Single Buffer Gate	4-DSBGA	558.00/3,000		
SN74LVC1G38DBVR	296-17846-1-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5	.44	.29	.24
SN74LVC1G38DBVR	296-17846-2-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5	297.00/3,000		
SN74LVC1G38DCKR	296-17907-1-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5	.44	.29	.24
SN74LVC1G38DCKR	296-17907-2-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5	297.00/3,000		
SN74LVC1G38YZPR	296-18783-1-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA	.66	.47	.40
SN74LVC1G38YZPR	296-18783-2-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA	558.00/3,000		
SN74LVC1G57DBVR	296-15574-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.44	.29	.24
SN74LVC1G57DBVR	296-15574-2-ND	Configurable Multiple-Function Gate	SOT-23-6	297.00/3,000		
SN74LVC1G57DCKR	296-15575-1-ND	Configurable Multiple-Function Gate	SC70-6	.44	.29	.24
SN74LVC1G57DCKR	296-15575-2-ND	Configurable Multiple-Function Gate	SC70-6	297.00/3,000		
SN74LVC1G57DRLR	296-18653-1-ND	Configurable Multiple-Function Gate	SOT-563	.58	.38	.32
SN74LVC1G57DRLR	296-18653-2-ND	Configurable Multiple-Function Gate	SOT-563	528.00/4,000		
SN74LVC1G57YEAR	296-14293-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G57YEAR	296-14293-2-ND	Configurable Multiple-Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G57YZPR	296-18784-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.57	.40	.34
SN74LVC1G57YZPR	296-18784-2-ND	Configurable Multiple-Function Gate	6-DSBGA	480.00/3,000		
SN74LVC1G58DBVR	296-15576-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.44	.29	.24
SN74LVC1G58DBVR	296-15576-2-ND	Configurable Multiple-Function Gate	SOT-23-6	297.00/3,000		
SN74LVC1G58DCKR	296-15577-1-ND	Configurable Multiple-Function Gate	SC70-6	.44	.29	.24
SN74LVC1G58DCKR	296-15577-2-ND	Configurable Multiple-Function Gate	SC70-6	297.00/3,000		
SN74LVC1G58DRLR	296-18654-1-ND	Configurable Multiple-Function Gate	SOT-6	.58	.38	.32
SN74LVC1G58DRLR	296-18654-2-ND	Configurable Multiple-Function Gate	SOT-6	528.00/4,000		
SN74LVC1G58YEAR	296-14294-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G58YEAR	296-14294-2-ND	Configurable Multiple-Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G58YZPR	296-18785-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.57	.40	.34
SN74LVC1G58YZPR	296-18785-2-ND	Configurable Multiple-Function Gate	6-DSBGA	480.00/3,000		
SN74LVC1G66DBVR	296-13253-1-ND	Single Bilateral Analog Switch	SOT-23-5	.44	.29	.24
SN74LVC1G66DBVR	296-13253-2-ND	Single Bilateral Analog Switch	SOT-23-5	297.00/3,000		
SN74LVC1G66DCKR	296-13254-1-ND	Single Bilateral Analog Switch	SC70-5	.44	.29	.24
SN74LVC1G66DCKR	296-13254-2-ND	Single Bilateral Analog Switch	SC70-5	297.00/3,000		
SN74LVC1G66DRLR	296-18018-1-ND	Single Bilateral Analog Switch	SOT-5	.58	.38	.32
SN74LVC1G66DRLR	296-18018-2-ND	Single Bilateral Analog Switch	SOT-5	528.00/4,000		
SN74LVC1G66QDCKRQ1	296-24277-1-ND	Single Bilateral Analog Switch* ***NEW!***	SC70-5	.50	.33	.27
SN74LVC1G66QDCKRQ1	296-24277-2-ND	Single Bilateral Analog Switch* ***NEW!***	SC70-5	342.00/3,000		
SN74LVC1G66YEAR	296-13255-1-ND	Single Bilateral Analog Switch	5-DSBGA	.84	.65	.57
SN74LVC1G66YEAR	296-13255-2-ND	Single Bilateral Analog Switch	5-DSBGA	826.50/3,000		
SN74LVC1G66YEPR	296-18786-1-ND	Single Bilateral Analog Switch	5-DSBGA	.84	.65	.57
SN74LVC1G66YEPR	296-18786-2-ND	Single Bilateral Analog Switch	5-DSBGA	826.50/3,000		
SN74LVC1G66YZAR	296-14029-1-ND	Single Bilateral Analog Switch	5-DSBGA	.84	.65	.57
SN74LVC1G66YZAR	296-14029-2-ND	Single Bilateral Analog Switch	5-DSBGA	826.50/3,000		
SN74LVC1G66YZPR	296-15108-1-ND	Single Bilateral Analog Switch	5-DSBGA	.57	.40	.34
SN74LVC1G66YZPR	296-15108-2-ND	Single Bilateral Analog Switch	5-DSBGA	480.00/3,000		
SN74LVC1G74DCTR	296-25553-1-ND	Single Positive Edge-Trig. D-Type Flip-Flop* ***NEW!***	SM8	.66	.47	.40
SN74LVC1G74DCTR	296-25553-2-ND	Single Positive Edge-Trig. D-Type Flip-Flop* ***NEW!***	SM8	558.00/3,000		
SN74LVC1G74DCUR	296-25554-1-ND	Single Positive Edge-Trig. D-Type Flip-Flop* ***NEW!***	US8	.66	.47	.40
SN74LVC1G74DCUR	296-25554-2-ND	Single Positive Edge-Trig. D-Type Flip-Flop* ***NEW!***	US8	558.00/3,000		
SN74LVC1G79DBVR	296-9849-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.44	.29	.24
SN74LVC1G79DBVR	296-9849-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	297.00/3,000		
SN74LVC1G79DCKR	296-9850-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.44	.29	.24
SN74LVC1G79DCKR	296-9850-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	297.00/3,000		
SN74LVC1G79WDCKREP	296-19506-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.97	.75	.66
SN74LVC1G79WDCKREP	296-19506-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	957.00/3,000		
SN74LVC1G79YEAR	296-14030-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G79YEAR	296-14030-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	828.00/3,000		
SN74LVC1G79YEPR	296-18787-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G79YEPR	296-18787-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	826.50/3,000		
SN74LVC1G79YZAR	296-15578-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G79YZAR	296-15578-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	826.50/3,000		
SN74LVC1G79YZPR	296-18788-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.57	.40	.34
SN74LVC1G79YZPR	296-18788-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	480.00/3,000		
SN74LVC1G80DBVR	296-9851-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.44	.29	.24
SN74LVC1G80DBVR	296-9851-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	297.00/3,000		
SN74LVC1G80DCKR	296-9852-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.44	.29	.24
SN74LVC1G80DCKR	296-9852-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	297.00/3,000		
SN74LVC1G80YEAR	296-15579-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G80YEAR	296-15579-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	828.00/3,000		
SN74LVC1G80YEPR	296-18789-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G80YEPR	296-18789-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	826.50/3,000		
SN74LVC1G80YZAR	296-14031-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.84	.65	.57
SN74LVC1G80YZPR	296-18790-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.58	.41	.35
SN74LVC1G80YZPR	296-18790-2-ND	Positive-Edge-Trig. D-Type Flip-Flop	5-DSBGA	488.25/3,000		
SN74LVC1G86DBVR	296-9853-1-ND	2-Input Exclusive OR Gate	SOT-23-5	.44	.29	.24
SN74LVC1G86DBVR	296-9853-2-ND	2-Input Exclusive OR Gate	SOT-23-5	297.00/3,000		
SN74LVC1G86DCKR	296-9854-1-ND	2-Input Exclusive OR Gate	SC70	.44	.29	.24
SN74LVC1G86DCKR	296-9854-2-ND	2-Input Exclusive OR Gate	SC70	297.00/3,000		
SN74LVC1G86DRLR	296-18613-1-ND	2-Input Exclusive OR Gate	SOT-5	.58	.38	.32
SN74LVC1G86DRLR	296-18613-2-ND	2-Input Exclusive OR Gate	SOT-5	528.00/4,000		
SN74LVC1G86MDCKREP	296-22351-1-ND	2-Input Exclusive OR Gate	SC70-5	1.41	1.11	1.00

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TEXAS INSTRUMENTS **Digi-Reel®** *(Cont.)*

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC1G86MDCKREP	296-22351-2-ND	2-Input Exclusive OR Gate	SC70-5	1554.00/3,000		
SN74LVC1G86YEAR	296-15580-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G86YEAR	296-15580-2-ND	2-Input Exclusive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G86YEPR	296-18791-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G86YEPR	296-18791-2-ND	2-Input Exclusive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G86YZAR	296-14032-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G86YZAR	296-14032-2-ND	2-Input Exclusive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G86YZPR	296-18792-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.57	.40	.34
SN74LVC1G86YZPR	296-18792-2-ND	2-Input Exclusive OR Gate	5-DSBGA	480.00/3,000		
SN74LVC1G97DBVR	296-15581-1-ND	Configurable Multiple Function Gate	SOT-23-6	.44	.29	.24
SN74LVC1G97DBVR	296-15581-2-ND	Configurable Multiple Function Gate	SOT-23-6	297.00/3,000		
SN74LVC1G97DCKR	296-15582-1-ND	Configurable Multiple Function Gate	SC70-6	.44	.29	.24
SN74LVC1G97DCKR	296-15582-2-ND	Configurable Multiple Function Gate	SC70-6	297.00/3,000		
SN74LVC1G97DRLR	296-18655-1-ND	Configurable Multiple Function Gate	SOT-6	.58	.38	.32
SN74LVC1G97DRLR	296-18655-2-ND	Configurable Multiple Function Gate	SOT-6	528.00/4,000		
SN74LVC1G97IDCKREP	296-22352-1-ND	Configurable Multiple Function Gate	SC70-6	.66	.51	.45
SN74LVC1G97IDCKREP	296-22352-2-ND	Configurable Multiple Function Gate	SC70-6	652.50/3,000		
SN74LVC1G97QDCKRQ1	296-17671-1-ND	Configurable Multiple Function Gate	SC70-6	.50	.33	.27
SN74LVC1G97QDCKRQ1	296-17671-2-ND	Configurable Multiple Function Gate	SC70-6	342.00/3,000		
SN74LVC1G97YEAR	296-14366-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G97YEAR	296-14366-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G97YEPR	296-16851-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G97YEPR	296-16851-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G97YZAR	296-14367-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G97YZAR	296-14367-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G97YZPR	296-16852-1-ND	Configurable Multiple Function Gate	6-DSBGA	.57	.40	.34
SN74LVC1G97YZPR	296-16852-2-ND	Configurable Multiple Function Gate	6-DSBGA	480.00/3,000		
SN74LVC1G98DBVR	296-15583-1-ND	Configurable Multiple Function Gate	SOT-23-6	.44	.29	.24
SN74LVC1G98DBVR	296-15583-2-ND	Configurable Multiple Function Gate	SOT-23-6	297.00/3,000		
SN74LVC1G98DCKR	296-15584-1-ND	Configurable Multiple Function Gate	SC70-6	.44	.29	.24
SN74LVC1G98DCKR	296-15584-2-ND	Configurable Multiple Function Gate	SC70-6	297.00/3,000		
SN74LVC1G98DRLR	296-18656-1-ND	Configurable Multiple Function Gate	SOT-6	.58	.38	.32
SN74LVC1G98DRLR	296-18656-2-ND	Configurable Multiple Function Gate	SOT-6	528.00/4,000		
SN74LVC1G98IDCKREP	296-22353-1-ND	Configurable Multiple Function Gate	SC70-6	.66	.51	.45
SN74LVC1G98IDCKREP	296-22353-2-ND	Configurable Multiple Function Gate	SC70-6	652.50/3,000		
SN74LVC1G98QDCKRQ1	296-17672-1-ND	Configurable Multiple Function Gate	SC70-6	.50	.33	.27
SN74LVC1G98QDCKRQ1	296-17672-2-ND	Configurable Multiple Function Gate	SC70-6	342.00/3,000		
SN74LVC1G98YEAR	296-14368-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G98YEAR	296-14368-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G98YEPR	296-18793-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G98YEPR	296-18793-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G98YZAR	296-14369-1-ND	Configurable Multiple Function Gate	6-DSBGA	.84	.65	.57
SN74LVC1G98YZAR	296-14369-2-ND	Configurable Multiple Function Gate	6-DSBGA	826.50/3,000		
SN74LVC1G98YZPR	296-23274-1-ND	Configurable Multiple Function Gate	6-DSBGA	.57	.40	.34
SN74LVC1G98YZPR	296-23274-2-ND	Configurable Multiple Function Gate	6-DSBGA	480.00/3,000		
SN74LVC1G99DCTR	296-18590-1-ND	Tri-State Ultra Configurable Multiple Function Gate	SM8	.69	.49	.42
SN74LVC1G99DCTR	296-18590-2-ND	Tri-State Ultra Configurable Multiple Function Gate	SM8	582.00/3,000		
SN74LVC1G99DCUR	296-18795-1-ND	Tri-State Ultra Configurable Multiple Function Gate	US8	.69	.49	.42
SN74LVC1G99DCUR	296-18795-2-ND	Tri-State Ultra Configurable Multiple Function Gate	US8	582.00/3,000		
SN74LVC1G99YZPR	296-17900-1-ND	Tri-State Ultra Configurable Multiple Function Gate	8-DSBGA	.74	.58	.51
SN74LVC1G99YZPR	296-17900-2-ND	Tri-State Ultra Configurable Multiple Function Gate	8-DSBGA	732.00/3,000		
SN74LVC1G123DCTR	296-18758-1-ND	Single Retriggerable Mono Multivibrator	SM8	.69	.49	.42
SN74LVC1G123DCTR	296-18758-2-ND	Single Retriggerable Mono Multivibrator	SM8	582.00/3,000		
SN74LVC1G123YZPR	296-21058-1-ND	Single Retriggerable Mono Multivibrator	8-DSBGA	.77	.60	.53
SN74LVC1G123YZPR	296-21058-2-ND	Single Retriggerable Mono Multivibrator	8-DSBGA	762.00/3,000		
SN74LVC1G125DRLR	296-18012-1-ND	Tri-State Single Bus Buffer Gate	SOT-5	.58	.38	.32
SN74LVC1G125DRLR	296-18012-2-ND	Tri-State Single Bus Buffer Gate	SOT-5	528.00/4,000		
SN74LVC1G125YEAR	296-14359-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.84	.65	.57
SN74LVC1G125YEAR	296-14359-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	826.50/3,000		
SN74LVC1G125YZPR	296-18759-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.57	.40	.34
SN74LVC1G125YZPR	296-18759-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	480.00/3,000		
SN74LVC1G126DRLR	296-18013-1-ND	Tri-State Single Bus Buffer Gate	SOT-5	.58	.38	.32
SN74LVC1G126DRLR	296-18013-2-ND	Tri-State Single Bus Buffer Gate	SOT-5	528.00/4,000		
SN74LVC1G126DRYR	296-21817-1-ND	Tri-State Single Bus Buffer Gate	6-SON	.58	.38	.32
SN74LVC1G126DRYR	296-21817-2-ND	Tri-State Single Bus Buffer Gate	6-SON	620.00/5,000		
SN74LVC1G126YEAR	296-15564-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.84	.65	.57
SN74LVC1G126YEAR	296-15564-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	826.50/3,000		
SN74LVC1G126YEPR	296-15565-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.84	.65	.57
SN74LVC1G126YEPR	296-15565-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	826.50/3,000		
SN74LVC1G126YZAR	296-14027-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.84	.65	.57
SN74LVC1G126YZAR	296-14027-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	826.50/3,000		
SN74LVC1G126YZPR	296-14361-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.57	.40	.34
SN74LVC1G126YZPR	296-14361-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	480.00/3,000		
SN74LVC1G132DBVR	296-17888-1-ND	Single 2-Input NAND Gate	SOT-23-5	.92	.72	.63
SN74LVC1G132DBVR	296-17888-2-ND	Single 2-Input NAND Gate	SOT-23-5	915.00/3,000		
SN74LVC1G132DCKR	296-18760-1-ND	Single 2-Input NAND Gate	SC70-5	.44	.29	.24
SN74LVC1G132DCKR	296-18760-2-ND	Single 2-Input NAND Gate	SC70-5	297.00/3,000		
SN74LVC1G132YEPR	296-17473-1-ND	Single 2-Input NAND Gate	5-DSBGA	.84	.65	.57
SN74LVC1G132YEPR	296-17473-2-ND	Single 2-Input NAND Gate	5-DSBGA	826.50/3,000		
SN74LVC1G132YZPR	296-17622-1-ND	Single 2-Input NAND Gate	5-DSBGA	.57	.40	.34
SN74LVC1G132YZPR	296-17622-2-ND	Single 2-Input NAND Gate	5-DSBGA	480.00/3,000		
SN74LVC1G139DCTR	296-18235-1-ND	2-to-4 Line Decoder	SM8	.69	.49	.42
SN74LVC1G139DCTR	296-18235-2-ND	2-to-4 Line Decoder	SM8	582.00/3,000		
SN74LVC1G139DCUR	296-18203-1-ND	2-to-4 Line Decoder	US8	.69	.49	.42
SN74LVC1G139DCUR	296-18203-2-ND	2-to-4 Line Decoder	US8	582.00/3,000		
SN74LVC1G139YZPR	296-21059-1-ND	2-to-4 Line Decoder	8-DSBGA	.74	.58	.51
SN74LVC1G139YZPR	296-21059-2-ND	2-to-4 Line Decoder	8-DSBGA	732.00/3,000		
SN74LVC1G175DBVR	296-17617-1-ND	Single D-Type F/F with Async. Clear	SOT-23-6	.44	.29	.24
SN74LVC1G175DBVR	296-17617-2-ND	Single D-Type F/F with Async. Clear	SOT-23-6	297.00/3,000		
SN74LVC1G175DCKR	296-16998-1-ND	Single D-Type F/F with Async. Clear	SC70-6	.44	.29	.24
SN74LVC1G175DCKR	296-16998-2-ND	Single D-Type F/F with Async. Clear	SC70-6	297.00/3,000		
SN74LVC1G175DRYR	296-24753-1-ND	Single D-Type F/F with Asynchronous Clear* ***NEW!***	6-SON	.58	.38	.32
SN74LVC1G175DRYR	296-24753-2-ND	Single D-Type F/F with Asynchronous Clear* ***NEW!***	6-SON	620.00/5,000		
SN74LVC1G175YZPR	296-17373-1-ND	Single D-Type F/F with Async. Clear	6-DSBGA	.57	.40	.34
SN74LVC1G175YZPR	296-17373-2-ND	Single D-Type F/F with Async. Clear	6-DSBGA	480.00/3,000		
SN74LVC1G240YEAR	296-14364-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.84	.65	.57
SN74LVC1G240YEAR	296-14364-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	826.50/3,000		
SN74LVC1G240YEPR	296-15850-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.84	.65	.57
SN74LVC1G240YEPR	296-15850-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	826.50/3,000		
SN74LVC1G240YZPR	296-15874-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.57	.40	.34
SN74LVC1G240YZPR	296-15874-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	480.00/3,000		
SN74LVC1G332DBVR	296-18587-1-ND	3-Input Positive OR Gate	SOT-23-6	.44	.29	.24
SN74LVC1G332DBVR	296-18587-2-ND	3-Input Positive OR Gate	SOT-23-6	297.00/3,000		
SN74LVC1G332DCKR	296-15943-1-ND	3-Input Positive OR Gate	SC70-6	.44	.29	.24
SN74LVC1G332DCKR	296-15943-2-ND	3-Input Positive OR Gate	SC70-6	297.00/3,000		
SN74LVC1G332DRLR	296-18652-1-ND	3-Input Positive OR Gate	SOT-563	.58	.38	.32
SN74LVC1G332DRLR	296-18652-2-ND	3-Input Positive OR Gate	SOT-563	528.00/4,000		
SN74LVC1G332YEPR	296-15875-1-ND	3-Input Positive OR Gate	5-DSBGA	.84	.65	.57
SN74LVC1G332YEPR	296-15875-2-ND	3-Input Positive OR Gate	5-DSBGA	826.50/3,000		
SN74LVC1G332YZPR	296-15853-1-ND	3-Input Positive OR Gate	6-DSBGA	.66	.47	.40
SN74LVC1G332YZPR	296-15853-2-ND	3-Input Positive OR Gate	6-DSBGA	558.00/3,000		
SN74LVC1G373DBVR	296-18588-1-ND	Tri-State Single D-Type Latch	SOT-23-6	.44	.29	.24
SN74LVC1G373DBVR	296-18588-2-ND	Tri-State Single D-Type Latch	SOT-23-6	297.00/3,000		
SN74LVC1G373DCKR	296-18775-1-ND	Tri-State Single D-Type Latch	SC70-6	.44	.29	.24
SN74LVC1G373DCKR	296-18775-2-ND	Tri-State Single D-Type Latch	SC70-6	297.00/3,000		
SN74LVC1G373YZPR	296-17100-1-ND	Tri-State Single D-Type Latch	6-DSBGA	.69	.49	.42
SN74LVC1G373YZPR	296-17100-2-ND	Tri-State Single D-Type Latch	6-DSBGA	581.25/3,000		
SN74LVC1G374DBVR	296-18776-1-ND	Tri-State Single D-Type Latch	SOT-23-6	.44	.29	.24
SN74LVC1G374DBVR	296-18776-2-ND	Tri-State Single D-Type Latch	SOT-23-6	297.00/3,000		
SN74LVC1G374DCKR	296-18777-1-ND	Tri-State Single D-Type Latch	SC70-6	.64	.38	.30
SN74LVC1G374DCKR	296-18777-2-ND	Tri-State Single D-Type Latch	SC70-6	297.00/3,000		
SN74LVC1G374YZPR	296-18778-1-ND	Tri-State Single D-Type Latch	6-DSBGA	.66	.47	.40
SN74LVC1G374YZPR	296-18778-2-ND	Tri-State Single D-Type Latch	6-DSBGA	558.00/3,000		
SN74LVC1G386DBVR	296-18779-1-ND	Single 3-Input Positive XOR Gate	SOT-23-6	.44	.29	.24
SN74LVC1G386DBVR	296-18779-2-ND	Single 3-Input Positive XOR Gate	SOT-23-6	297.00/3,000		
SN74LVC1G386DCKR	296-18780-1-ND	Single 3-Input Positive XOR Gate	SC70-6	.44	.29	.24
SN74LVC1G386DCKR	296-18780-2-ND	Single 3-Input Positive XOR Gate	SC70-6	297.00/3,000		
SN74LVC1G386YEPR	296-18781-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.84	.65	.57
SN74LVC1G386YEPR	296-18781-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	826.50/3,000		
SN74LVC1G386YZPR	296-18782-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.66	.47	.40
SN74LVC1G386YZPR	296-18782-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	558.00/3,000		
SN74LVC1G3157DBVR	296-14908-1-ND	SPDT Analog Switch	SOT-23-6	.44	.29	.24
SN74LVC1G3157DBVR	296-14908-2-ND	SPDT Analog Switch	SOT-23-6	297.00/3,000		
SN74LVC1G3157DCKR	296-14909-1-ND	SPDT Analog Switch	SC70-6	.44	.29	.24
SN74LVC1G3157DCKR	296-14909-2-ND	SPDT Analog Switch	SC70-6	297.00/3,000		
SN74LVC1G3157DRLR	296-18015-1-ND	SPDT Analog Switch	SOT-6	.58	.38	.32
SN74LVC1G3157DRLR	296-18015-2-ND	SPDT Analog Switch	SOT-6	528.00/4,000		
SN74LVC1G3157DRYR	296-21548-1-ND	SPDT Analog Switch	6-SON	.58	.38	.32
SN74LVC1G3157DRYR	296-21548-2-ND	SPDT Analog Switch	6-SON	620.00/5,000		
SN74LVC1G3157YEPR	296-17186-1-ND	SPDT Analog Switch	6-DSBGA	.84	.65	.57
SN74LVC1G3157YEPR	296-17186-2-ND	SPDT Analog Switch	6-DSBGA	826.50/3,000		
SN74LVC1G3157YZPR	296-18770-1-ND	SPDT Analog Switch	6-DSBGA	.66	.47	.40
SN74LVC1G3157YZPR	296-18770-2-ND	SPDT Analog Switch	6-DSBGA	558.00/3,000		
SN74LVC1G3208DBVR	296-18771-1-ND	Single 3-Input Positive OR AND Gate	SOT-23-6	.44	.29	.24
SN74LVC1G3208DBVR	296-18771-2-ND	Single 3-Input Positive OR AND Gate	SOT-23-6	297.00/3,000		
SN74LVC1G3208DCKR	296-17845-1-ND	Single 3-Input Positive OR AND Gate	SC70-6	.44	.29	.24
SN74LVC1G3208DCKR	296-17845-2-ND	Single 3-Input Positive OR AND Gate	SC70-6	297.00/3,000		
SN74LVC1G3208YZPR	296-21061-1-ND	Single 3-Input Positive OR AND Gate	6-DSBGA	.66	.47	.40
SN74LVC1G3208YZPR	296-21061-2-ND	Single 3-Input Positive OR AND Gate	6-DSBGA	558.00/3,000		
SN74LVC1GU04DBVR	296-8487-1-ND	Single Inverter Gate	SOT-23-5	.44	.29	.24
SN74LVC1GU04DBVR	296-8487-2-ND	Single Inverter Gate	SOT-23-5	297.00/3,000		
SN74LVC1GU04DCKR	296-8488-1-ND	Single Inverter Gate	SC70-5	.44	.29	.24
SN74LVC1GU04DCKR	296-8488-2-ND	Single Inverter Gate	SC70-5	297.00/3,000		
SN74LVC1GU04DRLR	296-18657-1-ND	Single Inverter Gate	SOT-5	.58	.38	.32
SN74LVC1GU04DRLR	296-18657-2-ND	Single Inverter Gate	SOT-5	528.00/4,000		
SN74LVC1GU04YEAR	296-13730-1-ND	Single Inverter Gate	5-DSBGA	.84	.65	.57
SN74LVC1GU04YEAR	296-13730-2-ND	Single Inverter Gate	5-DSBGA	826.50/3,000		
SN74LVC1GU04YZAR	296-14033-1-ND	Single Inverter Gate	5-DSBGA	.84	.65	.57
SN74LVC1GU04YZAR	296-14033-2-ND	Single Inverter Gate	5-DSBGA	826.50/3,000		
SN74LVC1GU04YZPR	296-14370-1-ND	Single Inverter Gate	5-DSBGA	.57	.40	.34
SN74LVC1GU04YZPR	296-14370-2-ND	Single Inverter Gate	5-DSBGA	480.00/3,000		
SN74LVC1GU04YZVR	296-21063-1-ND	Single Inverter Gate	4-DSBGA	.57	.40	.34
SN74LVC1GU04YZVR	296-21063-2-ND	Single Inverter Gate	4-DSBGA	480.00/3,000		
SN74LVC1GX04DBVR	296-17821-1-ND	Crystal Oscillator Driver	SOT-23-6	.97	.75	.66
SN74LVC1GX04DBVR	296-17821-2-ND	Crystal Oscillator Driver	SOT-23-6	957.00/3,000		
SN74LVC1GX04DCKR	296-18796-1-ND	Crystal Oscillator Driver	SC70-6	.97	.75	.66
SN74LVC1GX04DCKR	296-18796-2-ND	Crystal Oscillator Driver	SC70-6	957.00/3,000		
SN74LVC1GX04DRLR	296-18614-1-ND	Crystal Oscillator Driver	SOT-6	1.06	.82	.72
SN74LVC1GX04DRLR	296-18614-2-ND	Crystal Oscillator Driver	SOT-6	1392.00/4,000		
SN74LVC1T45DBVR	296-16843-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-23-6	.72	.51	.43
SN74LVC1T45DBVR	296-16843-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-23-6	606.00/3,000		
SN74LVC1T45DCKR	296-16844-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	.72	.51	.43
SN74LVC1T45DCKR	296-16844-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	606.00/3,000		
SN74LVC1T45DRLR	296-20629-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-6	.72	.51	.43
SN74LVC1T45DRLR	296-20629-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SOT-6	808.00/4,000		
SN74LVC1T45MDCKREP	296-23951-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	1.48	1.17	1.06
SN74LVC1T45MDCKREP	296-23951-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	SC70-6	1638.00/3,000		
SN74LVC1T45YEPR	296-17207-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	.92	.72	.63
SN74LVC1T45YEPR	296-17207-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	913.50/3,000		
SN74LVC1T45YZPR	296-17018-1-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	.72	.51	.43
SN74LVC1T45YZPR	296-17018-2-ND	Tri-St. Single-Bit Dual Supply Bus Xcvr.	6-DSBGA	606.00/3,000		
SN74LVC2G00DCTR	296-13257-1-ND	Dual 2-Input Positive NAND Gate	SM8	.66	.47	.40
SN74LVC2G00DCTR	296-13257-2-ND	Dual 2-Input Positive NAND Gate	SM8	558.00/3,000		
SN74LVC2G00DCUR	296-13258-1-ND	Dual 2-Input Positive NAND Gate	US8	.66	.47	.40
SN74LVC2G00DCUR	296-13258-2-ND	Dual 2-Input Positive NAND Gate	US8	558.00/3,000		
SN74LVC2G00WDCTREP	296-19507-1-ND	Dual 2-Input Positive AND Gate	SM8	1.29	1.02	.92
SN74LVC2G00WDCTREP	296-19507-2-ND	Dual 2-Input Positive AND Gate	SM8	1428.00/3,000		
SN74LVC2G00YEAR	296-15585-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G00YEAR	296-15585-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G00YZAR	296-14034-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G00YZAR	296-14034-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G00YZPR	296-18797-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.79	.56	.48
SN74LVC2G00YZPR	296-18797-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	669.00/3,000		
SN74LVC2G02DCTR	296-13259-1-ND	Dual 2-Input Positive NOR Gate	SM8	.66	.47	.40
SN74LVC2G02DCTR	296-13259-2-ND	Dual 2-Input Positive NOR Gate	SM8	558.00/3,000		
SN74LVC2G02DCUR	296-13260-1-ND	Dual 2-Input Positive NOR Gate	US8	.66	.47	.40
SN74LVC2G02DCUR	296-13260-2-ND	Dual 2-Input Positive NOR Gate	US8	558.00/3,000		
SN74LVC2G02MDCUREP	296-23471-1-ND	Dual 2-Input Pos. NOR Gate	8-US8	1.37	1.08	.98
SN74LVC2G02MDCUREP	296-23471-2-ND	Dual 2-Input Pos. NOR Gate	8-US8	1512.00/3,000		
SN74LVC2G02YEAR	296-13731-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G02YEAR	296-13731-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1000.50/3,000		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC2G02YEPR	296-18798-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G02YEPR	296-18798-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G02YZAR	296-14035-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G02YZAR	296-14035-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G02YZPR	296-18799-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.79	.56	.48
SN74LVC2G02YZPR	296-18799-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	669.00/3,000		
SN74LVC2G04DBVR	296-13261-1-ND	Dual Inverter Gate	SOT-23-6	.66	.47	.40
SN74LVC2G04DBVR	296-13261-2-ND	Dual Inverter Gate	SOT-23-6	558.00/3,000		
SN74LVC2G04DCKR	296-13262-1-ND	Dual Inverter Gate	SC-70-6	.66	.47	.40
SN74LVC2G04DCKR	296-13262-2-ND	Dual Inverter Gate	SC-70-6	558.00/3,000		
SN74LVC2G04DRLR	296-21064-1-ND	Dual Inverter Gate	SOT-6	.66	.47	.40
SN74LVC2G04DRLR	296-21064-2-ND	Dual Inverter Gate	SOT-6	744.00/4,000		
SN74LVC2G04MDCKREP	296-21819-1-ND	Dual Inverter Gate	SC70-6	1.18	.93	.84
SN74LVC2G04MDCKREP	296-21819-2-ND	Dual Inverter Gate	SC70-6	1302.00/3,000		
SN74LVC2G04YEAR	296-13732-1-ND	Dual Inverter Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G04YEAR	296-13732-2-ND	Dual Inverter Gate	6-DSBGA	1002.00/3,000		
SN74LVC2G04YEPR	296-18800-1-ND	Dual Inverter Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G04YEPR	296-18800-2-ND	Dual Inverter Gate	6-DSBGA	1000.50/3,000		
SN74LVC2G04YZAR	296-13733-1-ND	Dual Inverter Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G04YZAR	296-13733-2-ND	Dual Inverter Gate	6-DSBGA	1000.50/3,000		
SN74LVC2G04YZPR	296-23276-1-ND	Dual Inverter Gate	6-DSBGA	.79	.56	.48
SN74LVC2G04YZPR	296-23276-2-ND	Dual Inverter Gate	6-DSBGA	669.00/3,000		
SN74LVC2G06DBVR	296-13492-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	.66	.47	.40
SN74LVC2G06DBVR	296-13492-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	558.00/3,000		
SN74LVC2G06DCKR	296-13493-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	.66	.47	.40
SN74LVC2G06DCKR	296-13493-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	558.00/3,000		
SN74LVC2G06MDCKREP	296-19879-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	1.18	.93	.84
SN74LVC2G06MDCKREP	296-19879-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	1302.00/3,000		
SN74LVC2G06QDCKRQ1	296-18615-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	.76	.54	.46
SN74LVC2G06QDCKRQ1	296-18615-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	642.00/3,000		
SN74LVC2G06YEAR	296-13734-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	1.01	.79	.69
SN74LVC2G06YEAR	296-13734-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	1000.50/3,000		
SN74LVC2G06YZAR	296-13735-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	1.01	.79	.69
SN74LVC2G06YZAR	296-13735-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	1000.50/3,000		
SN74LVC2G06YZPR	296-17987-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.79	.56	.48
SN74LVC2G06YZPR	296-17987-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	669.00/3,000		
SN74LVC2G07DBVR	296-13494-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.66	.47	.40
SN74LVC2G07DBVR	296-13494-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	558.00/3,000		
SN74LVC2G07DCKR	296-13495-1-ND	Dual Buffer/Driver with OD Output	SC70-6	.66	.47	.40
SN74LVC2G07DCKR	296-13495-2-ND	Dual Buffer/Driver with OD Output	SC70-6	558.00/3,000		
SN74LVC2G07MDCKTEP	296-23739-1-ND	Dual Buffer/Driver with OD Output	SC70-6	2.42	1.87	1.70
SN74LVC2G07MDCKTEP	296-23739-2-ND	Dual Buffer/Driver with OD Output	SC70-6	345.00/250		
SN74LVC2G07YEAR	296-13736-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1.01	.79	.69
SN74LVC2G07YEAR	296-13736-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1000.50/3,000		
SN74LVC2G07YZAR	296-13737-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1.01	.79	.69
SN74LVC2G07YZAR	296-13737-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1000.50/3,000		
SN74LVC2G07YZPR	296-23277-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.79	.56	.48
SN74LVC2G07YZPR	296-23277-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	669.00/3,000		
SN74LVC2G08DCTR	296-13263-1-ND	Dual 2-Input Positive AND Gate	SM8	.66	.47	.40
SN74LVC2G08DCTR	296-13263-2-ND	Dual 2-Input Positive AND Gate	SM8	558.00/3,000		
SN74LVC2G08DCUR	296-13264-1-ND	Dual 2-Input Positive AND Gate	US8	.66	.47	.40
SN74LVC2G08DCUR	296-13264-2-ND	Dual 2-Input Positive AND Gate	US8	558.00/3,000		
SN74LVC2G08MDCUREP	296-23472-1-ND	Dual 2-Input Positive AND Gate	8-US8	1.37	1.08	.98
SN74LVC2G08MDCUREP	296-23472-2-ND	Dual 2-Input Positive AND Gate	8-US8	1512.00/3,000		
SN74LVC2G08YEPR	296-16734-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G08YEPR	296-16734-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G08YZAR	296-14036-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G08YZAR	296-14036-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G08YZPR	296-14371-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.79	.56	.48
SN74LVC2G08YZPR	296-14371-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	669.00/3,000		
SN74LVC2G14DBVR	296-13010-1-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	.66	.47	.40
SN74LVC2G14DBVR	296-13010-2-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	558.00/3,000		
SN74LVC2G14DCKR	296-13011-1-ND	Dual Schmitt-Trigger Inverter	SC70-6	.66	.47	.40
SN74LVC2G14DCKR	296-13011-2-ND	Dual Schmitt-Trigger Inverter	SC70-6	558.00/3,000		
SN74LVC2G14IDCKRQ1	296-26620-1-ND	Dual Schmitt-Trigger Inverter* ***NEW!***	SC70-6	.73	.51	.44
SN74LVC2G14IDCKRQ1	296-26620-2-ND	Dual Schmitt-Trigger Inverter* ***NEW!***	SC70-6	615.00/3,000		
SN74LVC2G14YEAR	296-13970-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	1.01	.79	.69
SN74LVC2G14YEAR	296-13970-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	1000.50/3,000		
SN74LVC2G14YZPR	296-18803-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	.79	.56	.48
SN74LVC2G14YZPR	296-18803-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	669.00/3,000		
SN74LVC2G17DBVR	296-13012-1-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	.66	.47	.40
SN74LVC2G17DBVR	296-13012-2-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	558.00/3,000		
SN74LVC2G17DCKR	296-13013-1-ND	Dual Schmitt-Trigger Buffer	SC70-6	.66	.47	.40
SN74LVC2G17DCKR	296-13013-2-ND	Dual Schmitt-Trigger Buffer	SC70-6	558.00/3,000		
SN74LVC2G17MDCKREP	296-22358-1-ND	Dual Schmitt-Trigger Buffer	SC70-6	1.29	1.02	.92
SN74LVC2G17MDCKREP	296-22358-2-ND	Dual Schmitt-Trigger Buffer	SC70-6	1428.00/3,000		
SN74LVC2G17QDCKRQ1	296-18297-1-ND	Dual Schmitt-Trigger Buffer	SC70	.76	.54	.46
SN74LVC2G17QDCKRQ1	296-18297-2-ND	Dual Schmitt-Trigger Buffer	SC70	642.00/3,000		
SN74LVC2G17YEAR	296-14039-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	1.01	.79	.69
SN74LVC2G17YEAR	296-14039-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	1000.50/3,000		
SN74LVC2G17YEPR	296-18805-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	1.01	.79	.69
SN74LVC2G17YEPR	296-18805-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	1000.50/3,000		
SN74LVC2G32DCTR	296-13267-1-ND	Dual 2-Input Positive OR Gate	SM8	.66	.47	.40
SN74LVC2G32DCTR	296-13267-2-ND	Dual 2-Input Positive OR Gate	SM8	558.00/3,000		
SN74LVC2G32DCUR	296-13268-1-ND	Dual 2-Input Positive OR Gate	US8	.66	.47	.40
SN74LVC2G32DCUR	296-13268-2-ND	Dual 2-Input Positive OR Gate	US8	558.00/3,000		
SN74LVC2G32MDCUREP	296-22359-1-ND	Dual 2-Input Positive OR Gate	8-VSSOP	1.75	1.38	1.25
SN74LVC2G32MDCUREP	296-22359-2-ND	Dual 2-Input Positive OR Gate	8-VSSOP	1932.00/3,000		
SN74LVC2G32YEAR	296-15593-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G32YEAR	296-15593-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G32YEPR	296-15349-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G32YEPR	296-15349-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G32YZAR	296-14040-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G32YZAR	296-14040-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G32YZPR	296-15350-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.79	.56	.48
SN74LVC2G32YZPR	296-15350-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	669.00/3,000		
SN74LVC2G34DBVR	296-13496-1-ND	Dual Buffer Gate	SOT-23-6	.66	.47	.40
SN74LVC2G34DBVR	296-13496-2-ND	Dual Buffer Gate	SOT-23-6	558.00/3,000		
SN74LVC2G34DCKR	296-13497-1-ND	Dual Buffer Gate	SC70-6	.66	.47	.40
SN74LVC2G34DCKR	296-13497-2-ND	Dual Buffer Gate	SC70-6	558.00/3,000		
SN74LVC2G34DRLR	296-18020-1-ND	Dual Buffer Gate	SOT-6	.66	.47	.40
SN74LVC2G34DRLR	296-18020-2-ND	Dual Buffer Gate	SOT-6	744.00/4,000		
SN74LVC2G34MDCKREP	296-22360-1-ND	Dual Buffer Gate	SC70-6	1.75	1.38	1.25
SN74LVC2G34MDCKREP	296-22360-2-ND	Dual Buffer Gate	SC70-6	1932.00/3,000		
SN74LVC2G34YEAR	296-13740-1-ND	Dual Buffer Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G34YEAR	296-13740-2-ND	Dual Buffer Gate	6-DSBGA	1000.50/3,000		
SN74LVC2G34YEPR	296-17087-1-ND	Dual Buffer Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G34YEPR	296-17087-2-ND	Dual Buffer Gate	6-DSBGA	1000.50/3,000		
SN74LVC2G34YZAR	296-13741-1-ND	Dual Buffer Gate	6-DSBGA	1.01	.79	.69
SN74LVC2G34YZAR	296-13741-2-ND	Dual Buffer Gate	6-DSBGA	1000.50/3,000		
SN74LVC2G34YZPR	296-23781-1-ND	Dual Buffer Gate	6-DSBGA	.79	.56	.48
SN74LVC2G34YZPR	296-23781-2-ND	Dual Buffer Gate	6-DSBGA	669.00/3,000		
SN74LVC2G38DCTR	296-17010-1-ND	Dual 2-Input NAND Gate	SM8	.66	.47	.40
SN74LVC2G38DCTR	296-17010-2-ND	Dual 2-Input NAND Gate	SM8	558.00/3,000		
SN74LVC2G38DCUR	296-18808-1-ND	Dual 2-Input NAND Gate	US8	.66	.47	.40
SN74LVC2G38DCUR	296-18808-2-ND	Dual 2-Input NAND Gate	US8	558.00/3,000		
SN74LVC2G38YZPR	296-18809-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.79	.56	.48
SN74LVC2G38YZPR	296-18809-2-ND	Dual 2-Input NAND Gate	8-DSBGA	669.00/3,000		
SN74LVC2G53DCTR	296-13269-1-ND	Dual Analog Mux/Demux	SM8	.66	.47	.40
SN74LVC2G53DCTR	296-13269-2-ND	Dual Analog Mux/Demux	SM8	558.00/3,000		
SN74LVC2G53DCUR	296-13270-1-ND	Dual Analog Mux/Demux	US8	.66	.47	.40
SN74LVC2G53DCUR	296-13270-2-ND	Dual Analog Mux/Demux	US8	558.00/3,000		
SN74LVC2G53YZAR	296-12664-1-ND	Dual Analog Mux/Demux	8-DSBGA	1.01	.79	.69
SN74LVC2G53YZAR	296-12664-2-ND	Dual Analog Mux/Demux	8-DSBGA	1000.50/3,000		
SN74LVC2G53YZPR	296-14372-1-ND	Dual Analog Mux/Demux	8-DSBGA	.79	.56	.48
SN74LVC2G53YZPR	296-14372-2-ND	Dual Analog Mux/Demux	8-DSBGA	669.00/3,000		
SN74LVC2G66DCTR	296-13271-1-ND	Dual Bilateral Analog Switch	SM8	.66	.47	.40
SN74LVC2G66DCTR	296-13271-2-ND	Dual Bilateral Analog Switch	SM8	558.00/3,000		
SN74LVC2G66DCUR	296-13272-1-ND	Dual Bilateral Analog Switch	US8	.66	.47	.40
SN74LVC2G66DCUR	296-13272-2-ND	Dual Bilateral Analog Switch	US8	558.00/3,000		
SN74LVC2G66YEAR	296-15594-1-ND	Dual Bilateral Analog Switch	8-DSBGA	1.01	.79	.69
SN74LVC2G66YEAR	296-15594-2-ND	Dual Bilateral Analog Switch	8-DSBGA	1000.50/3,000		
SN74LVC2G66YZAR	296-14041-1-ND	Dual Bilateral Analog Switch	8-DSBGA	1.01	.79	.69
SN74LVC2G66YZAR	296-14041-2-ND	Dual Bilateral Analog Switch	8-DSBGA	1000.50/3,000		
SN74LVC2G66YZPR	296-14373-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.79	.56	.48
SN74LVC2G66YZPR	296-14373-2-ND	Dual Bilateral Analog Switch	8-DSBGA	669.00/3,000		
SN74LVC2G74DCTR	296-13273-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SM8	.66	.47	.40
SN74LVC2G74DCTR	296-13273-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SM8	558.00/3,000		
SN74LVC2G74DCUR	296-12755-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	US8	.66	.47	.40
SN74LVC2G74DCUR	296-12755-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	US8	558.00/3,000		
SN74LVC2G74MDCUTEP	296-23740-1-ND	Single Positive-Edge-Triggered D-Type F/F with Clear and Preset	US8	2.42	1.87	1.70
SN74LVC2G74MDCUTEP	296-23740-2-ND	Single Positive-Edge-Triggered D-Type F/F with Clear and Preset	US8	345.00/250		
SN74LVC2G74QDCURQ1	296-21820-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-VSSOP	.76	.54	.46
SN74LVC2G74QDCURQ1	296-21820-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-VSSOP	642.00/3,000		
SN74LVC2G74YEPR	296-14374-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	1.01	.79	.69
SN74LVC2G74YEPR	296-14374-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	1000.50/3,000		
SN74LVC2G74YZPR	296-14375-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	.79	.56	.48
SN74LVC2G74YZPR	296-14375-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	669.00/3,000		
SN74LVC2G79DCTR	296-17849-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.47	.40
SN74LVC2G79DCTR	296-17849-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	558.00/3,000		
SN74LVC2G79DCUR	296-17254-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.66	.47	.40
SN74LVC2G79DCUR	296-17254-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	558.00/3,000		
SN74LVC2G79YEPR	296-15982-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1.01	.79	.69
SN74LVC2G79YEPR	296-15982-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1000.50/3,000		
SN74LVC2G79YZPR	296-15983-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.56	.48
SN74LVC2G79YZPR	296-15983-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	669.00/3,000		
SN74LVC2G80DCTR	296-18810-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.47	.40
SN74LVC2G80DCTR	296-18810-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	558.00/3,000		
SN74LVC2G80DCUR	296-17083-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.66	.47	.40
SN74LVC2G80DCUR	296-17083-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	558.00/3,000		
SN74LVC2G80YEPR	296-15984-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1.01	.79	.69
SN74LVC2G80YEPR	296-15984-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1000.50/3,000		
SN74LVC2G80YZPR	296-15985-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.79	.56	.48
SN74LVC2G80YZPR	296-15985-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	669.00/3,000		
SN74LVC2G86DCTR	296-13274-1-ND	Dual 2-Input Exclusive OR Gate	SM8	.66	.47	.40
SN74LVC2G86DCTR	296-13274-2-ND	Dual 2-Input Exclusive OR Gate	SM8	558.00/3,000		
SN74LVC2G86DCUR	296-13275-1-ND	Dual 2-Input Exclusive OR Gate	US8	.66	.47	.40
SN74LVC2G86DCUR	296-13275-2-ND	Dual 2-Input Exclusive OR Gate	US8	558.00/3,000		
SN74LVC2G86YEAR	296-13972-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G86YEAR	296-13972-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G86YEPR	296-18811-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G86YEPR	296-18811-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G86YZAR	296-15709-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1.01	.79	.69

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC2G86YZAR	296-15709-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G125DCTR	296-12164-1-ND	Tri-State Dual Bus Buffer Gate	SM8	.66	.47	.40
SN74LVC2G125DCTR	296-12164-2-ND	Tri-State Dual Bus Buffer Gate	SM8	558.00/3,000		
SN74LVC2G125DCUR	296-13265-1-ND	Tri-State Dual Bus Buffer Gate	US8	.66	.47	.40
SN74LVC2G125DCUR	296-13265-2-ND	Tri-State Dual Bus Buffer Gate	US8	558.00/3,000		
SN74LVC2G125YEAR	296-13738-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G125YEAR	296-13738-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G125YZAR	296-14037-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G125YZAR	296-14037-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G125YZPR	296-15109-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.79	.56	.48
SN74LVC2G125YZPR	296-15109-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	669.00/3,000		
SN74LVC2G126DCTR	296-12554-1-ND	Tri-State Dual Bus Buffer Gate	SM8	.66	.47	.40
SN74LVC2G126DCTR	296-12554-2-ND	Tri-State Dual Bus Buffer Gate	SM8	558.00/3,000		
SN74LVC2G126DCUR	296-12555-1-ND	Tri-State Dual Bus Buffer Gate	US8	.66	.47	.40
SN74LVC2G126DCUR	296-12555-2-ND	Tri-State Dual Bus Buffer Gate	US8	558.00/3,000		
SN74LVC2G126YEAR	296-15586-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G126YEAR	296-15586-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G126YZAR	296-14038-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G126YZAR	296-14038-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G126YZPR	296-15587-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.79	.56	.48
SN74LVC2G126YZPR	296-15587-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	669.00/3,000		
SN74LVC2G132DCTR	296-17056-1-ND	Dual 2-Input NAND Gate	SM8	.66	.47	.40
SN74LVC2G132DCTR	296-17056-2-ND	Dual 2-Input NAND Gate	SM8	558.00/3,000		
SN74LVC2G132DCUR	296-18802-1-ND	Dual 2-Input NAND Gate	US8	.66	.47	.40
SN74LVC2G132DCUR	296-18802-2-ND	Dual 2-Input NAND Gate	US8	558.00/3,000		
SN74LVC2G132YEPR	296-17729-1-ND	Dual 2-Input NAND Gate	8-DSBGA	1.01	.79	.69
SN74LVC2G132YEPR	296-17729-2-ND	Dual 2-Input NAND Gate	8-DSBGA	1000.50/3,000		
SN74LVC2G132YZPR	296-17504-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.79	.56	.48
SN74LVC2G132YZPR	296-17504-2-ND	Dual 2-Input NAND Gate	8-DSBGA	669.00/3,000		
SN74LVC2G157DCTR	296-13266-1-ND	Single 2-1 Line Data Selector/Mux	SM8	.66	.47	.40
SN74LVC2G157DCTR	296-13266-2-ND	Single 2-1 Line Data Selector/Mux	SM8	558.00/3,000		
SN74LVC2G157DCUR	296-12605-1-ND	Single 2-1 Line Data Selector/Mux	US8	.66	.47	.40
SN74LVC2G157DCUR	296-12605-2-ND	Single 2-1 Line Data Selector/Mux	US8	558.00/3,000		
SN74LVC2G157YEAR	296-13971-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	1.01	.79	.69
SN74LVC2G157YEAR	296-13971-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	1000.50/3,000		
SN74LVC2G157YEPR	296-17997-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	1.01	.79	.69
SN74LVC2G157YEPR	296-17997-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	1000.50/3,000		
SN74LVC2G157YZPR	296-18804-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.79	.56	.48
SN74LVC2G157YZPR	296-18804-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	669.00/3,000		
SN74LVC2G240DCTR	296-15588-1-ND	Tri-State Dual Buffer/Driver	SM8	.72	.51	.43
SN74LVC2G240DCTR	296-15588-2-ND	Tri-State Dual Buffer/Driver	SM8	606.00/3,000		
SN74LVC2G240DCUR	296-13739-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.72	.51	.43
SN74LVC2G240DCUR	296-13739-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	606.00/3,000		
SN74LVC2G240YEAR	296-15589-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G240YEAR	296-15589-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G240YEPR	296-18806-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G240YEPR	296-18806-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G240YZAR	296-15590-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G240YZAR	296-15590-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G240YZPR	296-18807-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.69	.54	.47
SN74LVC2G240YZPR	296-18807-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	678.00/3,000		
SN74LVC2G241DCTR	296-11935-1-ND	Tri-State Dual Buffer/Driver	SM8	.72	.51	.43
SN74LVC2G241DCTR	296-11935-2-ND	Tri-State Dual Buffer/Driver	SM8	606.00/3,000		
SN74LVC2G241DCUR	296-11936-1-ND	Tri-State Dual Buffer/Driver	US8	.72	.51	.43
SN74LVC2G241DCUR	296-11936-2-ND	Tri-State Dual Buffer/Driver	US8	606.00/3,000		
SN74LVC2G241YEAR	296-15591-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G241YEAR	296-15591-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G241YEPR	296-15854-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G241YEPR	296-15854-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G241YZAR	296-15592-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1.01	.79	.69
SN74LVC2G241YZAR	296-15592-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1000.50/3,000		
SN74LVC2G241YZPR	296-15855-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.69	.54	.47
SN74LVC2G241YZPR	296-15855-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	678.00/3,000		
SN74LVC2GU04DBVR	296-13276-1-ND	Dual Inverter Gate	SOT-23-6	.72	.51	.43
SN74LVC2GU04DBVR	296-13276-2-ND	Dual Inverter Gate	SOT-23-6	606.00/3,000		
SN74LVC2GU04DCK6	296-23741-1-ND	Dual Inverter Gate	SC70-6	1.06	.84	.76
SN74LVC2GU04DCK6	296-23741-2-ND	Dual Inverter Gate	SC70-6	150.50/250		
SN74LVC2GU04DCKR	296-13277-1-ND	Dual Inverter Gate	SC70-6	.72	.51	.43
SN74LVC2GU04DCKR	296-13277-2-ND	Dual Inverter Gate	SC70-6	606.00/3,000		
SN74LVC2GU04YEAR	296-13742-1-ND	Dual Inverter Gate	6-DSBGA	1.01	.79	.69
SN74LVC2GU04YEAR	296-13742-2-ND	Dual Inverter Gate	6-DSBGA	1000.50/3,000		
SN74LVC2GU04YZAR	296-13743-1-ND	Dual Inverter Gate	6-DSBGA	1.01	.79	.69
SN74LVC2GU04YZAR	296-13743-2-ND	Dual Inverter Gate	6-DSBGA	1000.50/3,000		
SN74LVC2GU04YZPR	296-14376-1-ND	Dual Inverter Gate	6-DSBGA	.84	.65	.57
SN74LVC2GU04YZPR	296-14376-2-ND	Dual Inverter Gate	6-DSBGA	828.00/3,000		
SN74LVC2T45DCTR	296-16845-1-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	SM8	.79	.62	.54
SN74LVC2T45DCTR	296-16845-2-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	SM8	783.00/3,000		
SN74LVC2T45DCUR	296-17014-1-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	US8	.79	.62	.54
SN74LVC2T45DCUR	296-17014-2-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	US8	783.00/3,000		
SN74LVC2T45MDCTTEP	296-23952-1-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	SM8	1.89	1.46	1.33
SN74LVC2T45MDCTTEP	296-23952-2-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	SM8	270.00/250		
SN74LVC2T45YZPR	296-17036-1-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	8-DSBGA	.79	.62	.54
SN74LVC2T45YZPR	296-17036-2-ND	Tri-State Dual-Bit Dual Supply Bus Xcvr	8-DSBGA	783.00/3,000		
SN74LVC3G04DCTR	296-13278-1-ND	Triple Inverter Gate	SM8	.72	.51	.43
SN74LVC3G04DCTR	296-13278-2-ND	Triple Inverter Gate	SM8	606.00/3,000		
SN74LVC3G04DCUR	296-13279-1-ND	Triple Inverter Gate	US8	.72	.51	.43
SN74LVC3G04DCUR	296-13279-2-ND	Triple Inverter Gate	US8	606.00/3,000		
SN74LVC3G04YEAR	296-14043-1-ND	Triple Inverter Gate	8-DSBGA	1.03	.81	.73
SN74LVC3G04YEAR	296-14043-2-ND	Triple Inverter Gate	8-DSBGA	1134.00/3,000		
SN74LVC3G04YZPR	296-15110-1-ND	Triple Inverter Gate	8-DSBGA	.79	.62	.54
SN74LVC3G04YZPR	296-15110-2-ND	Triple Inverter Gate	8-DSBGA	783.00/3,000		
SN74LVC3G06DCTR	296-13280-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	SM8	.72	.51	.43
SN74LVC3G06DCTR	296-13280-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	SM8	606.00/3,000		
SN74LVC3G06DCUR	296-13281-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	US8	.72	.51	.43
SN74LVC3G06DCUR	296-13281-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	US8	606.00/3,000		
SN74LVC3G06YEAR	296-15598-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1.03	.81	.73
SN74LVC3G06YEAR	296-15598-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1134.00/3,000		
SN74LVC3G06YEPR	296-18814-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1.03	.81	.73
SN74LVC3G06YEPR	296-18814-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1134.00/3,000		
SN74LVC3G06YZPR	296-18815-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.84	.65	.57
SN74LVC3G06YZPR	296-18815-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	828.00/3,000		
SN74LVC3G07DCTR	296-13282-1-ND	Triple Buffer/Driver with OD Output	SM8	.72	.51	.43
SN74LVC3G07DCTR	296-13282-2-ND	Triple Buffer/Driver with OD Output	SM8	606.00/3,000		
SN74LVC3G07DCUR	296-13283-1-ND	Triple Buffer/Driver with OD Output	US8	.72	.51	.43
SN74LVC3G07DCUR	296-13283-2-ND	Triple Buffer/Driver with OD Output	US8	606.00/3,000		
SN74LVC3G07MDCUREP	296-23953-1-ND	Triple Buffer/Driver with OD Output	8-VSSOP	1.71	1.35	1.22
SN74LVC3G07MDCUREP	296-23953-2-ND	Triple Buffer/Driver with OD Output	8-VSSOP	1890.00/3,000		
SN74LVC3G07QDCURQ1	296-23710-1-ND	Triple Buffer/Driver with OD Output	US8	.66	.51	.45
SN74LVC3G07QDCURQ1	296-23710-2-ND	Triple Buffer/Driver with OD Output	US8	654.00/3,000		
SN74LVC3G07YEAR	296-14044-1-ND	Triple Buffer/Driver with OD Output	8-DSBGA	1.03	.81	.73
SN74LVC3G07YEAR	296-14044-2-ND	Triple Buffer/Driver with OD Output	8-DSBGA	1134.00/3,000		
SN74LVC3G07YZAR	296-15711-1-ND	Triple Buffer/Driver with OD Output	8-DSBGA	1.03	.81	.73
SN74LVC3G07YZAR	296-15711-2-ND	Triple Buffer/Driver with OD Output	8-DSBGA	1134.00/3,000		
SN74LVC3G14DCTR	296-13284-1-ND	Triple Schmitt-Trigger Inverter	SM8	.72	.51	.43
SN74LVC3G14DCTR	296-13284-2-ND	Triple Schmitt-Trigger Inverter	SM8	606.00/3,000		
SN74LVC3G14DCU6	296-23742-1-ND	Triple Schmitt-Trigger Inverter	US8	.66	.47	.40
SN74LVC3G14DCU6	296-23742-2-ND	Triple Schmitt-Trigger Inverter	US8	558.00/3,000		
SN74LVC3G14DCUR	296-13006-1-ND	Triple Schmitt-Trigger Inverter	US8	.72	.51	.43
SN74LVC3G14DCUR	296-13006-2-ND	Triple Schmitt-Trigger Inverter	US8	606.00/3,000		
SN74LVC3G14YEAR	296-14045-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1.03	.81	.73
SN74LVC3G14YEAR	296-14045-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1134.00/3,000		
SN74LVC3G14YEPR	296-18816-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1.03	.81	.73
SN74LVC3G14YEPR	296-18816-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1134.00/3,000		
SN74LVC3G14YZPR	296-18817-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.79	.62	.54
SN74LVC3G14YZPR	296-18817-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	783.00/3,000		
SN74LVC3G17DCTR	296-16915-1-ND	Triple Schmitt-Trigger Buffer	SM8	.72	.51	.43
SN74LVC3G17DCTR	296-16915-2-ND	Triple Schmitt-Trigger Buffer	SM8	606.00/3,000		
SN74LVC3G17DCUR	296-18818-1-ND	Triple Schmitt-Trigger Buffer	US8	.72	.51	.43
SN74LVC3G17DCUR	296-18818-2-ND	Triple Schmitt-Trigger Buffer	US8	606.00/3,000		
SN74LVC3G17YZPR	296-18819-1-ND	Triple Schmitt-Trigger Buffer	8-DSBGA	.84	.65	.57
SN74LVC3G17YZPR	296-18819-2-ND	Triple Schmitt-Trigger Buffer	8-DSBGA	828.00/3,000		
SN74LVC3G34DCTR	296-13285-1-ND	Triple Buffer Gate	SM8	.72	.51	.43
SN74LVC3G34DCTR	296-13285-2-ND	Triple Buffer Gate	SM8	606.00/3,000		
SN74LVC3G34DCUR	296-13286-1-ND	Triple Buffer Gate	US8	.72	.51	.43
SN74LVC3G34DCUR	296-13286-2-ND	Triple Buffer Gate	US8	606.00/3,000		
SN74LVC3G34YEAR	296-14046-1-ND	Triple Buffer Gate	8-DSBGA	1.03	.81	.73
SN74LVC3G34YEAR	296-14046-2-ND	Triple Buffer Gate	8-DSBGA	1134.00/3,000		
SN74LVC3G34YZPR	296-15111-1-ND	Triple Buffer Gate	8-DSBGA	.79	.62	.54
SN74LVC3G34YZPR	296-15111-2-ND	Triple Buffer Gate	8-DSBGA	783.00/3,000		
SN74LVC3GU04DCTR	296-18820-1-ND	Triple Inverter Gate	SM8	.79	.62	.54
SN74LVC3GU04DCTR	296-18820-2-ND	Triple Inverter Gate	SM8	783.00/3,000		
SN74LVC3GU04DCUR	296-18821-1-ND	Triple Inverter Gate	8-VSSOP	.84	.65	.57
SN74LVC3GU04DCUR	296-18821-2-ND	Triple Inverter Gate	8-VSSOP	828.00/3,000		
SN74LVC3GU04YEPR	296-16823-1-ND	Triple Inverter Gate	8-DSBGA	1.03	.81	.73
SN74LVC3GU04YEPR	296-16823-2-ND	Triple Inverter Gate	8-DSBGA	1134.00/3,000		
SN74LVC3GU04YZPR	296-16824-1-ND	Triple Inverter Gate	8-DSBGA	1.06	.82	.72
SN74LVC3GU04YZPR	296-16824-2-ND	Triple Inverter Gate	8-DSBGA	1044.00/3,000		
SN74LVC8T245DBR	296-21065-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SSOP	1.33	1.05	.95
SN74LVC8T245DBR	296-21065-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SSOP	980.00/2,000		
SN74LVC8T245DGVR	296-19287-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TVSOP	1.33	1.05	.95
SN74LVC8T245DGVR	296-19287-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TVSOP	980.00/2,000		
SN74LVC8T245DWR	296-23280-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SOIC	1.33	1.05	.95
SN74LVC8T245DWR	296-23280-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SOIC	980.00/2,000		
SN74LVC8T245MPWREP	296-24003-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	3.15	2.58	2.31
SN74LVC8T245MPWREP	296-24003-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	2794.00/2,000		
SN74LVC8T245RHLR	296-18595-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-QFN	1.48	1.17	1.06
SN74LVC8T245RHLR	296-18595-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-QFN	584.00/1,000		
SN74LVC8T245PWR	296-18593-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	1.33	1.05	.95
SN74LVC8T245PWR	296-18593-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	980.00/2,000		
SN74LVC16T245DGGR	296-20631-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	2.63	2.03	1.84
SN74LVC16T245DGGR	296-20631-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	2026.00/2,000		
SN74LVC16T245DGVR	296-21052-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	2.63	2.03	1.84
SN74LVC16T245DGVR	296-21052-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	2026.00/2,000		
SN74LVC16T245DLR	296-21993-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-SSOP	2.63	2.03	1.84
SN74LVC16T245DLR	296-21993-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-SSOP	1088.00/1,000		
SN74LVC00AD	296-1694-5-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.34	.28
SN74LVC00ADR	296-1694-1-ND	Quad 2-Input NAND Gate	14-SOIC	.47	.31	.26
SN74LVC00ADR	296-1694-2-ND	Quad 2-Input NAND Gate	14-SOIC	267.50/2,500		
SN74LVC00ADBR	296-8430-1-ND	Quad 2-Input NAND Gate	14-SSOP	.52	.35	.29
SN74LVC00ADBR	296-8430-2-ND	Quad 2-Input NAND Gate	14-SSOP	238.00/2,000		
SN74LVC00AMPWREP	296-22322-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.99	.77	.68
SN74LVC00AMPWREP	296-22322-2-ND	Quad 2-Input NAND Gate	14-TSSOP	652.50/2,000		
SN74LVC00ANSR	296-26569-1-ND	Quad 2-Input Pos. NAND Gate* ***NEW!***	14-SOP	.52	.35	.29
SN74LVC00ANSR	296-26569-2-ND	Quad 2-Input Pos. NAND Gate* ***NEW!***	14-SOP	238.00/2,000		
SN74LVC00APWR	296-1216-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.47	.31	.26
SN74LVC00APWR	296-1216-2-ND	Quad 2-Input NAND Gate	14-TSSOP	214.00/2,000		
SN74LVC00AQDREP	296-22323-1-ND	Quad 2-Input NAND Gate	14-SOIC	.97	.75	.66
SN74LVC00AQDREP	296-22323-2-ND	Quad 2-Input NAND Gate	14-SOIC	797.50/2,500		
SN74LVC00AQPWREP	296-22324-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.97	.75	.66
SN74LVC00AQPWREP	296-22324-2-ND	Quad 2-Input NAND Gate	14-TSSOP	638.00/2,000		
SN74LVC00ARGYR	296-13954-1-ND	Quad 2-Input NAND Gate	14-QFN	.52	.35	.29
SN74LVC00ARGYR	296-13954-2-ND	Quad 2-Input NAND Gate	14-QFN	357.00/3,000		
SN74LVC02AD	296-8433-5-ND	Quad 2-Input NOR Gate	14-SOIC	.51	.34	.28
SN74LVC02ADR	296-8433-1-ND	Quad 2-Input NOR Gate	14-SOIC	.47	.31	.26
SN74LVC02ADR	296-8433-2-ND	Quad 2-Input NOR Gate	14-SOIC	267.50/2,500		
SN74LVC02ADBR	296-8432-1-ND	Quad 2-Input NOR Gate	14-SSOP	.52	.35	.29
SN74LVC02ADBR	296-8432-2-ND	Quad 2-Input NOR Gate	14-SSOP	238.00/2,000		
SN74LVC02APW	296-26571-5-ND	Quad 2-Input Pos. NOR Gate* ***NEW!***	14-TSSOP	.51	.34	.28
SN74LVC02APWR	296-8434-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.47	.31	.26
SN74LVC02APWR	296-8434-2-ND	Quad 2-Input NOR Gate	14-TSSOP	214.00/2,000		
SN74LVC02AQPWRQ1	296-23567-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.54	.36	.30
SN74LVC02AQPWRQ1	296-23567-2-ND	Quad 2-Input NOR Gate	14-TSSOP	248.00/2,000		
SN74LVC02ARGYR	296-13955-1-ND	Quad 2-Input NOR Gate	14-QFN	.52	.35	.29
SN74LVC02ARGYR	296-13955-2-ND	Quad 2-Input NOR Gate	14-QFN	357.00/3,000		
SN74LVC04AD	296-1218-5-ND	Hex Inverter	14-SOIC	.51	.34	.28
SN74LVC04ADR	296-1218-1-ND	Hex Inverter	14-SOIC	.47	.31	.26
SN74LVC04ADR	296-1218-2-ND	Hex Inverter	14-SOIC	267.50/2,500		
SN74LVC04ADBR	296-1217-1-ND	Hex Inverter	14-SSOP	.52	.35	.29
SN74LVC04ADBR	296-1217-2-ND	Hex Inverter	14-SSOP	238.00/2,000		
SN74LVC04ADGVR	296-8435-1-ND	Hex Inverter	14-TVSOP	.47	.31	.26
SN74LVC04ADGVR	296-8435-2-ND	Hex Inverter	14-TVSOP	214.00/2,000		
SN74LVC04ANSR	296-26572-1-ND	Hex Inverter* ***NEW!***	14-SOP	.52	.35	.29
SN74LVC04ANSR	296-26572-2-ND	Hex Inverter* ***NEW!***	14-SOP	238.00/2,000		
SN74LVC04APWR	296-1219-1-ND	Hex Inverter	14-TSSOP	.47	.31	.26

** RoHS Compliant*

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC04APWR	296-1219-2-ND	Hex Inverter	14-TSSOP	214.00/2,000		
SN74LVC04AQDREP	296-18126-1-ND	Hex Inverter	14-SOIC	.97	.75	.66
SN74LVC04AQDREP	296-18126-2-ND	Hex Inverter	14-SOIC	797.50/2,500		
SN74LVC04AQPWREP	296-22326-1-ND	Hex Inverter	14-TSSOP	.97	.75	.66
SN74LVC04AQPWREP	296-22326-2-ND	Hex Inverter	14-TSSOP	638.00/2,000		
SN74LVC04ARGYR	296-13956-1-ND	Hex Inverter	14-QFN	.52	.35	.29
SN74LVC04ARGYR	296-13956-2-ND	Hex Inverter	14-QFN	357.00/3,000		
SN74LVC06AD	296-1696-5-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.52	.35	.28
SN74LVC06ADBR	296-14399-1-ND	Hex Inverter Buffer/Driver with OD	14-SSOP	.54	.36	.29
SN74LVC06ADBR	296-14399-2-ND	Hex Inverter Buffer/Driver with OD	14-SSOP	244.00/2,000		
SN74LVC06ADR	296-14905-1-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.49	.32	.27
SN74LVC06ADR	296-14905-2-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	277.50/2,500		
SN74LVC06ADGVR	296-8436-1-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP	.49	.32	.27
SN74LVC06ADGVR	296-8436-2-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP	222.00/2,000		
SN74LVC06AMDREP	296-22327-1-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	1.01	.79	.69
SN74LVC06AMDREP	296-22327-2-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	833.75/2,500		
SN74LVC06APWR	296-8437-1-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP	.49	.32	.27
SN74LVC06APWR	296-8437-2-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP	222.00/2,000		
SN74LVC06ARGYR	296-13957-1-ND	Hex Inverter Buffer/Driver with OD	14-QFN	.54	.36	.29
SN74LVC06ARGYR	296-13957-2-ND	Hex Inverter Buffer/Driver with OD	14-QFN	366.00/3,000		
SN74LVC07AD	296-8441-5-ND	Hex Buffer/Driver with OD	14-SOIC	.52	.35	.28
SN74LVC07ADR	296-8441-1-ND	Hex Buffer/Driver with OD	14-SOIC	.49	.32	.27
SN74LVC07ADR	296-8441-2-ND	Hex Buffer/Driver with OD	14-SOIC	277.50/2,500		
SN74LVC07ADBR	296-8439-1-ND	Hex Buffer/Driver with OD	14-SSOP	.54	.36	.29
SN74LVC07ADBR	296-8439-2-ND	Hex Buffer/Driver with OD	14-SSOP	244.00/2,000		
SN74LVC07ADGVR	296-8440-1-ND	Hex Buffer/Driver with OD	14-TVSOP	.49	.32	.27
SN74LVC07ADGVR	296-8440-2-ND	Hex Buffer/Driver with OD	14-TVSOP	222.00/2,000		
SN74LVC07AIPWREP	296-22328-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.75	.58	.51
SN74LVC07AIPWREP	296-22328-2-ND	Hex Buffer/Driver with OD	14-TSSOP	493.00/2,000		
SN74LVC07AMPWREP	296-22329-1-ND	Hex Buffer/Driver with OD	14-TSSOP	1.82	1.44	1.30
SN74LVC07AMPWREP	296-22329-2-ND	Hex Buffer/Driver with OD	14-TSSOP	1344.00/2,000		
SN74LVC07APWR	296-8442-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.49	.32	.27
SN74LVC07APWR	296-8442-2-ND	Hex Buffer/Driver with OD	14-TSSOP	222.00/2,000		
SN74LVC07AQPWRQ1	296-20707-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.54	.36	.30
SN74LVC07AQPWRQ1	296-20707-2-ND	Hex Buffer/Driver with OD	14-TSSOP	248.00/2,000		
SN74LVC07ARGYR	296-13958-1-ND	Hex Buffer/Driver with OD	14-QFN	.54	.36	.29
SN74LVC07ARGYR	296-13958-2-ND	Hex Buffer/Driver with OD	14-QFN	366.00/3,000		
SN74LVC08AD	296-1697-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.51	.34	.28
SN74LVC08ADR	296-1697-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.47	.31	.26
SN74LVC08ADR	296-1697-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	267.50/2,500		
SN74LVC08ADBR	296-1220-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.52	.35	.29
SN74LVC08ADBR	296-1220-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	238.00/2,000		
SN74LVC08AMPWREP	296-22330-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.99	.77	.68
SN74LVC08AMPWREP	296-22330-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	652.50/2,000		
SN74LVC08ANSR	296-26576-1-ND	Quad 2-Input Pos. AND Gate* ***NEW!***	14-SOP	.52	.35	.29
SN74LVC08ANSR	296-26576-2-ND	Quad 2-Input Pos. AND Gate* ***NEW!***	14-SOP	238.00/2,000		
SN74LVC08APWR	296-1221-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.47	.31	.26
SN74LVC08APWR	296-1221-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	214.00/2,000		
SN74LVC08AQPWRQ1	296-21812-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.54	.36	.30
SN74LVC08AQPWRQ1	296-21812-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	248.00/2,000		
SN74LVC08ARGYR	296-13959-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.52	.35	.29
SN74LVC08ARGYR	296-13959-2-ND	Quad 2-Input Positive AND Gate	14-QFN	357.00/3,000		
SN74LVC10AD	296-8443-5-ND	Triple 3-Input NAND Gate	14-SOP	.51	.34	.28
SN74LVC10ADBR	296-8444-1-ND	Triple 3-Input NAND Gate	14-SSOP	.52	.35	.29
SN74LVC10ADBR	296-8444-2-ND	Triple 3-Input NAND Gate	14-SSOP	238.00/2,000		
SN74LVC10APW	296-26578-5-ND	Triple 3-Input Pos. NAND Gate* ***NEW!***	14-TSSOP	.51	.34	.28
SN74LVC10APWR	296-8445-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.47	.31	.26
SN74LVC10APWR	296-8445-2-ND	Triple 3-Input NAND Gate	14-TSSOP	214.00/2,000		
SN74LVC10ARGYR	296-13960-1-ND	Triple 3-Input NAND Gate	14-QFN	.52	.35	.29
SN74LVC10ARGYR	296-13960-2-ND	Triple 3-Input NAND Gate	14-QFN	357.00/3,000		
SN74LVC14AD	296-1699-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.51	.34	.28
SN74LVC14ADR	296-1699-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.47	.31	.26
SN74LVC14ADR	296-1699-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	267.50/2,500		
SN74LVC14ADBR	296-8463-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.52	.35	.29
SN74LVC14ADBR	296-8463-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	238.00/2,000		
SN74LVC14ADGVR	296-8464-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.47	.31	.26
SN74LVC14ADGVR	296-8464-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	214.00/2,000		
SN74LVC14ANSR	296-26583-1-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	.52	.35	.29
SN74LVC14ANSR	296-26583-2-ND	Hex Schmitt-Trigger Inverter* ***NEW!***	14-SOP	238.00/2,000		
SN74LVC14APWR	296-1224-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.47	.31	.26
SN74LVC14APWR	296-1224-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	214.00/2,000		
SN74LVC14AQDREP	296-19596-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.97	.75	.66
SN74LVC14AQDREP	296-19596-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	797.50/2,500		
SN74LVC14AQDRG4Q1	296-23270-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.54	.36	.30
SN74LVC14AQDRG4Q1	296-23270-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	310.00/2,500		
SN74LVC14AQPWREP	296-20666-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.97	.75	.66
SN74LVC14AQPWREP	296-20666-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	638.00/2,000		
SN74LVC14ARGYR	296-13965-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.52	.35	.29
SN74LVC14ARGYR	296-13965-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	357.00/3,000		
SN74LVC32AD	296-1235-5-ND	Quad 2-Input OR Gate	14-SOIC	.51	.34	.28
SN74LVC32ADR	296-1235-1-ND	Quad 2-Input OR Gate	14-SOIC	.47	.31	.26
SN74LVC32ADR	296-1235-2-ND	Quad 2-Input OR Gate	14-SOIC	267.50/2,500		
SN74LVC32ADBR	296-1234-1-ND	Quad 2-Input OR Gate	14-SSOP	.52	.35	.29
SN74LVC32ADBR	296-1234-2-ND	Quad 2-Input OR Gate	14-SSOP	238.00/2,000		
SN74LVC32AMDREP	296-22361-1-ND	Quad 2-Input OR Gate	14-SOIC	1.01	.79	.69
SN74LVC32AMDREP	296-22361-2-ND	Quad 2-Input OR Gate	14-SOIC	833.75/2,500		
SN74LVC32AMPWREP	296-22362-1-ND	Quad 2-Input OR Gate	14-TSSOP	1.82	1.44	1.30
SN74LVC32AMPWREP	296-22362-2-ND	Quad 2-Input OR Gate	14-TSSOP	1344.00/2,000		
SN74LVC32ANSR	296-26624-1-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOP	.52	.35	.29
SN74LVC32ANSR	296-26624-2-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOP	238.00/2,000		
SN74LVC32APWR	296-1236-1-ND	Quad 2-Input OR Gate	14-TSSOP	.47	.31	.26
SN74LVC32APWR	296-1236-2-ND	Quad 2-Input OR Gate	14-TSSOP	214.00/2,000		
SN74LVC32AQDREP	296-22363-1-ND	Quad 2-Input OR Gate	14-SOIC	.97	.75	.66
SN74LVC32AQDREP	296-22363-2-ND	Quad 2-Input OR Gate	14-SOIC	797.50/2,500		
SN74LVC32AQPWREP	296-18127-1-ND	Quad 2-Input OR Gate	14-TSSOP	.97	.75	.66
SN74LVC32AQPWREP	296-18127-2-ND	Quad 2-Input OR Gate	14-TSSOP	638.00/2,000		
SN74LVC32ARGYR	296-13819-1-ND	Quad 2-Input OR Gate	14-QFN	.52	.35	.29
SN74LVC32ARGYR	296-13819-2-ND	Quad 2-Input OR Gate	14-QFN	357.00/3,000		
SN74LVC74AD	296-1240-5-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.55	.37	.30
SN74LVC74ADR	296-1240-1-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.51	.34	.28
SN74LVC74ADR	296-1240-2-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	290.00/2,500		
SN74LVC74ADBR	296-1239-1-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	.56	.37	.31
SN74LVC74ADBR	296-1239-2-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	254.00/2,000		
SN74LVC74AMPWREP	296-22378-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	1.01	.79	.69
SN74LVC74AMPWREP	296-22378-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	667.00/2,000		
SN74LVC74APWR	296-1241-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.51	.34	.28
SN74LVC74APWR	296-1241-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	232.00/2,000		
SN74LVC74AQDREP	296-22379-1-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.97	.75	.66
SN74LVC74AQDREP	296-22379-2-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	797.50/2,500		
SN74LVC74AQPWREP	296-22380-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.66	.47	.40
SN74LVC74AQPWREP	296-22380-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	372.00/2,000		
SN74LVC74AQPWRQ1	296-17492-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.59	.39	.32
SN74LVC74AQPWRQ1	296-17492-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	268.00/2,000		
SN74LVC74ARGYR	296-13977-1-ND	Tri-State Dual D-Type Flip-Flop	14-QFN	.56	.37	.31
SN74LVC74ARGYR	296-13977-2-ND	Tri-State Dual D-Type Flip-Flop	14-QFN	381.00/3,000		
SN74LVC86AD	296-8561-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.37	.30
SN74LVC86ADBR	296-8562-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.56	.37	.31
SN74LVC86ADBR	296-8562-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	254.00/2,000		
SN74LVC86ADR	296-14915-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.51	.34	.28
SN74LVC86ADR	296-14915-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	290.00/2,500		
SN74LVC86AMDREP	296-22381-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	1.01	.79	.69
SN74LVC86AMDREP	296-22381-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	833.75/2,500		
SN74LVC86APWR	296-1242-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.51	.34	.28
SN74LVC86APWR	296-1242-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	232.00/2,000		
SN74LVC86AQDREP	296-22382-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.97	.75	.66
SN74LVC86AQDREP	296-22382-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	797.50/2,500		
SN74LVC86AQPWREP	296-22383-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.97	.75	.66
SN74LVC86AQPWREP	296-22383-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	638.00/2,000		
SN74LVC86ARGYR	296-13978-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.56	.37	.31
SN74LVC86ARGYR	296-13978-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN	381.00/3,000		
SN74LVC112AD	296-8449-5-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.86	.67	.59
SN74LVC112ADR	296-8449-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.79	.62	.54
SN74LVC112ADR	296-8449-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	652.50/2,500		
SN74LVC112ADBR	296-8447-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	.87	.68	.60
SN74LVC112ADBR	296-8447-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	574.00/2,000		
SN74LVC112APWR	296-8450-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	.79	.62	.54
SN74LVC112APWR	296-8450-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	522.00/2,000		
SN74LVC125AD	296-8453-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.48	.35	.30
SN74LVC125ADR	296-8453-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.60	.40	.33
SN74LVC125ADR	296-8453-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	342.50/2,500		
SN74LVC125ADBR	296-8452-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.36	.31
SN74LVC125ADBR	296-8452-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	282.00/2,000		
SN74LVC125AIPWREP	296-22333-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.88	.68	.60
SN74LVC125AIPWREP	296-22333-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	580.00/2,000		
SN74LVC125AMDREP	296-21813-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	1.75	1.35	1.23
SN74LVC125AMDREP	296-21813-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	1687.50/2,500		
SN74LVC125APWR	296-1222-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.60	.40	.33
SN74LVC125APWR	296-1222-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	274.00/2,000		
SN74LVC125AQPWRQ1	296-23268-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.51	.36	.31
SN74LVC125AQPWRQ1	296-23268-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	286.00/2,000		
SN74LVC125ARGYR	296-13961-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.50	.36	.31
SN74LVC125ARGYR	296-13961-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	423.00/3,000		
SN74LVC126AD	296-8457-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.48	.35	.30
SN74LVC126ADR	296-8457-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.60	.40	.33
SN74LVC126ADR	296-8457-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	342.50/2,500		
SN74LVC126ADBR	296-8455-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.36	.31
SN74LVC126ADBR	296-8455-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	282.00/2,000		
SN74LVC126ADGVR	296-8456-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.60	.40	.33
SN74LVC126ADGVR	296-8456-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	274.00/2,000		
SN74LVC126APWR	296-8458-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.60	.40	.33
SN74LVC126APWR	296-8458-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	274.00/2,000		
SN74LVC126AQDRQ1	296-25859-1-ND	Tri-State Quad Bus Buffer Gate* ***NEW!***	14-SOIC	.51	.36	.31
SN74LVC126AQDRQ1	296-25859-2-ND	Tri-State Quad Bus Buffer Gate* ***NEW!***	14-SOIC	357.50/2,500		
SN74LVC126ARGYR	296-13962-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.50	.36	.31
SN74LVC126ARGYR	296-13962-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	423.00/3,000		
SN74LVC138AD	296-8459-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.48	.35	.30
SN74LVC138ADBR	296-8460-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.50	.36	.31
SN74LVC138ADBR	296-8460-2-ND	3-to-8 Line Decoder/Demux	16-SSOP	282.00/2,000		
SN74LVC138ADGVR	296-13235-1-ND	3-to-8 Line Decoder/Demux	16-TVSOP	.60	.40	.33
SN74LVC138ADGVR	296-13235-2-ND	3-to-8 Line Decoder/Demux	16-TVSOP	274.00/2,000		
SN74LVC138ADR	296-14906-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.60	.40	.33
SN74LVC138ADR	296-14906-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	342.50/2,500		
SN74LVC138AGQNR	296-12096-1-ND	3-to-8 Line Decoder/Demux	20-BGA	.69	.49	.42
SN74LVC138AGQNR	296-12096-2-ND	3-to-8 Line Decoder/Demux	20-BGA	213.00/1,000		
SN74LVC138AMPWTEP	296-24670-1-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-TSSOP	2.42	1.87	1.70
SN74LVC138AMPWTEP	296-24670-2-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-TSSOP	345.00/250		
SN74LVC138APWR	296-1223-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.60	.40	.33
SN74LVC138APWR	296-1223-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	274.00/2,000		
SN74LVC138AQDREP	296-22334-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	1.03	.81	.73
SN74LVC138AQDREP	296-22334-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	945.00/2,500		
SN74LVC138AQDRG4Q1	296-24837-1-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-SOIC	.51	.36	.31
SN74LVC138AQDRG4Q1	296-24837-2-ND	3-to-8 Line Decoder/Demux* ***NEW!***	16-SOIC	357.50/2,500		
SN74LVC138AQDRQ1	296-19474-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.51	.36	.31
SN74LVC138AQDRQ1	296-19474-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	357.50/2,500		
SN74LVC138AQPWREP	296-20727-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	1.03	.81	.73
SN74LVC138AQPWREP	296-20727-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	756.00/2,000		
SN74LVC138ARGYR	296-13963-1-ND	3-to-8 Line Decoder/Demux	16-VQFN	.50	.36	.31
SN74LVC138ARGYR	296-13963-2-ND	3-to-8 Line Decoder/Demux	16-VQFN	423.00/3,000		
SN74LVC138AZQNR	296-23269-1-ND	3-to-8 Line Decoder/Demux	20-VFBGA	.69	.49	.42
SN74LVC138AZQNR	296-23269-2-ND	3-to-8 Line Decoder/Demux	20-VFBGA	213.00/1,000		
SN74LVC139AD	296-1698-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.48	.35	.30
SN74LVC139ADBR	296-8461-1-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	.50	.36	.31
SN74LVC139ADBR	296-8461-2-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	282.00/2,000		
SN74LVC139AGQNR	296-13236-1-ND	Dual 2-4 Line Decoder/Demux	20-BGA	.69	.49	.42
SN74LVC139AGQNR	296-13236-2-ND	Dual 2-4 Line Decoder/Demux	20-BGA	213.00/1,000		
SN74LVC139APW	296-26582-5-ND	Dual 2-4 Line Decoder/Demux* ***NEW!***	16-TSSOP	.48	.35	.30
SN74LVC139APWR	296-8462-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.60	.40	.33
SN74LVC139APWR	296-8462-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	274.00/2,000		
SN74LVC139ARGYR	296-13964-1-ND	Dual 2-4 Line Decoder/Demux	16-VQFN	.50	.36	.31
SN74LVC139ARGYR	296-13964-2-ND	Dual 2-4 Line Decoder/Demux	16-VQFN	423.00/3,000		
SN74LVC157AD	296-1700-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.68	.51	.44
SN74LVC157ADBR	296-8465-1-ND	Quad 2-1 Data Selector/Mux	16-SSOP	.73	.51	.44
SN74LVC157ADBR	296-8465-2-ND	Quad 2-1 Data Selector/Mux	16-SSOP	410.00/2,000		
SN74LVC157ADR	296-14907-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.66	.47	.40
SN74LVC157ADR	296-14907-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	465.00/2,500		

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® *(Cont.)*

DIGITAL LOGIC

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC157ANSR	296-26585-1-ND	Quad 2-1 Data Selector/Mux* ***NEW!***	16-SOP	.73	.51	.44
SN74LVC157ANSR	296-26585-2-ND	Quad 2-1 Data Selector/Mux* ***NEW!***	16-SOP	410.00/2,000		
SN74LVC157APWR	296-1225-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.66	.47	.40
SN74LVC157APWR	296-1225-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	372.00/2,000		
SN74LVC157AQPWREP	296-22336-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	1.25	.99	.90
SN74LVC157AQPWREP	296-22336-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	924.00/2,000		
SN74LVC157AQPWRQ1	296-17743-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.76	.54	.46
SN74LVC157AQPWRQ1	296-17743-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	428.00/2,000		
SN74LVC157ARGYR	296-13966-1-ND	Quad 2-1 Data Selector/Mux	16-VQFN	.73	.51	.44
SN74LVC157ARGYR	296-13966-2-ND	Quad 2-1 Data Selector/Mux	16-VQFN	615.00/3,000		
SN74LVC240ADBR	296-8494-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.67	.47	.40
SN74LVC240ADBR	296-8494-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	376.00/2,000		
SN74LVC240ADGVR	296-8495-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.61	.43	.37
SN74LVC240ADGVR	296-8495-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	342.00/2,000		
SN74LVC240ADW	296-8496-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.63	.47	.40
SN74LVC240ADWR	296-8496-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.61	.43	.37
SN74LVC240ADWR	296-8496-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	342.00/2,000		
SN74LVC240ANSR	296-12902-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.67	.47	.40
SN74LVC240ANSR	296-12902-2-ND	Tri-State Octal Buffer/Driver	20-SOP	376.00/2,000		
SN74LVC240APW	296-26607-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LVC240APWR	296-8498-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.61	.43	.37
SN74LVC240APWR	296-8498-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	342.00/2,000		
SN74LVC244ADBR	296-8499-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.58	.41	.35
SN74LVC244ADBR	296-8499-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	326.00/2,000		
SN74LVC244ADGVR	296-8500-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.58	.41	.35
SN74LVC244ADGVR	296-8500-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	326.00/2,000		
SN74LVC244ADWR	296-1229-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.58	.41	.35
SN74LVC244ADWR	296-1229-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	326.00/2,000		
SN74LVC244AN	296-8501-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.50	.37	.32
SN74LVC244ANSR	296-17115-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.58	.41	.35
SN74LVC244ANSR	296-17115-2-ND	Tri-State Octal Buffer/Driver	20-SOP	326.00/2,000		
SN74LVC244APWR	296-1230-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.58	.41	.35
SN74LVC244APWR	296-1230-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	326.00/2,000		
SN74LVC244AQPWRQ1	296-23696-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.63	.45	.38
SN74LVC244AQPWRQ1	296-23696-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	356.00/2,000		
SN74LVC244ARGYR	296-13967-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	.64	.45	.39
SN74LVC244ARGYR	296-13967-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	540.00/3,000		
SN74LVC244AZQNR	296-19878-1-ND	Tri-State Octal Buffer/Driver	20-BGA	.70	.54	.48
SN74LVC244AZQNR	296-19878-2-ND	Tri-State Octal Buffer/Driver	20-BGA	253.00/1,000		
SN74LVC245ADBR	296-1231-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.58	.41	.35
SN74LVC245ADBR	296-1231-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	326.00/2,000		
SN74LVC245ADGVR	296-8502-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.58	.41	.35
SN74LVC245ADGVR	296-8502-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	326.00/2,000		
SN74LVC245ADW	296-1232-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.38
SN74LVC245ADWR	296-1232-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.58	.41	.35
SN74LVC245ADWR	296-1232-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	326.00/2,000		
SN74LVC245AGQNR	296-12098-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.70	.54	.48
SN74LVC245AGQNR	296-12098-2-ND	Tri-State Octal Bus Transceiver	20-BGA	253.00/1,000		
SN74LVC245AIPWREP	296-22354-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.29	1.02	.92
SN74LVC245AIPWREP	296-22354-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	952.00/2,000		
SN74LVC245AN	296-8503-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.50	.37	.32
SN74LVC245ANSR	296-13632-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.58	.41	.35
SN74LVC245ANSR	296-13632-2-ND	Tri-State Octal Bus Transceiver	20-SOP	326.00/2,000		
SN74LVC245APWR	296-1233-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.61	.43	.37
SN74LVC245APWR	296-1233-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	342.00/2,000		
SN74LVC245ARGYR	296-13968-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.64	.45	.39
SN74LVC245ARGYR	296-13968-2-ND	Tri-State Octal Bus Transceiver	20-QFN	540.00/3,000		
SN74LVC245AZQNR	296-21215-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.70	.54	.48
SN74LVC245AZQNR	296-21215-2-ND	Tri-State Octal Bus Transceiver	20-BGA	253.00/1,000		
SN74LVC257AD	296-8504-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.72	.56	.49
SN74LVC257ADBR	296-12903-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	.73	.57	.50
SN74LVC257ADBR	296-12903-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	478.00/2,000		
SN74LVC257ADR	296-8504-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.66	.51	.45
SN74LVC257ADR	296-8504-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	543.75/2,500		
SN74LVC257AMPWREP	296-22355-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	3.08	2.38	2.16
SN74LVC257AMPWREP	296-22355-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	2376.00/2,000		
SN74LVC257APWR	296-8506-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	.66	.51	.45
SN74LVC257APWR	296-8506-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	436.00/2,000		
SN74LVC257AQDREP	296-22356-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	1.71	1.35	1.22
SN74LVC257AQDREP	296-22356-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	1575.00/2,500		
SN74LVC257AQDRG4Q1	296-24838-1-ND	Tri-State Quad 2-1 Data Selector/ Mux* ***NEW!***	16-SOIC	.76	.59	.52
SN74LVC257AQDRG4Q1	296-24838-2-ND	Tri-State Quad 2-1 Data Selector/ Mux* ***NEW!***	16-SOIC	627.50/2,500		
SN74LVC257AQDRQ1	296-18658-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.76	.59	.52
SN74LVC257AQDRQ1	296-18658-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	627.50/2,500		
SN74LVC257ARGYR	296-13969-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-VQFN	.73	.57	.50
SN74LVC257ARGYR	296-13969-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-VQFN	717.00/3,000		
SN74LVC32AQPWRQ1	296-24178-1-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-TSSOP	.54	.36	.30
SN74LVC32AQPWRQ1	296-24178-2-ND	Quad 2-Input Pos. OR Gate* ***NEW!***	14-TSSOP	248.00/2,000		
SN74LVC373ADBR	296-1237-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.67	.47	.40
SN74LVC373ADBR	296-1237-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	376.00/2,000		
SN74LVC373ADGVR	296-8510-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.61	.43	.37
SN74LVC373ADGVR	296-8510-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	342.00/2,000		
SN74LVC373ADW	296-8511-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.63	.47	.40
SN74LVC373ADWR	296-8511-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.61	.43	.37
SN74LVC373ADWR	296-8511-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	342.00/2,000		
SN74LVC373AGQNR	296-12099-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.73	.57	.50
SN74LVC373AGQNR	296-12099-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	264.00/1,000		
SN74LVC373AN	296-12905-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.57	.43	.37
SN74LVC373APWR	296-8512-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.61	.43	.37
SN74LVC373APWR	296-8512-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	342.00/2,000		
SN74LVC373AQDWREP	296-22365-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	1.37	1.08	.98
SN74LVC373AQDWREP	296-22365-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	1008.00/2,000		
SN74LVC373AQPWREP	296-22366-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	1.37	1.08	.98
SN74LVC373AQPWREP	296-22366-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	1008.002,000		
SN74LVC373ARGYR	296-13973-1-ND	Tri-State Octal Transp. D-Type Latch	20-VQFN	.67	.47	.40
SN74LVC373ARGYR	296-13973-2-ND	Tri-State Octal Transp. D-Type Latch	20-VQFN	564.00/3,000		
SN74LVC374ADBR	296-8513-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.67	.47	.40
SN74LVC374ADBR	296-8513-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	376.00/2,000		
SN74LVC374ADGVR	296-12906-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.61	.43	.37
SN74LVC374ADGVR	296-12906-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	342.00/2,000		
SN74LVC374ADW	296-1701-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.63	.47	.40
SN74LVC374ADWR	296-1701-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.61	.43	.37
SN74LVC374ADWR	296-1701-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	342.00/2,000		
SN74LVC374AN	296-12907-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.57	.43	.37
SN74LVC374APWR	296-1238-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.61	.43	.37
SN74LVC374APWR	296-1238-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	342.00/2,000		
SN74LVC374AQDWREP	296-22367-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.37	1.08	.98
SN74LVC374AQDWREP	296-22367-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1008.00/2,000		
SN74LVC374AQPWREP	296-22368-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	1.37	1.08	.98
SN74LVC374AQPWREP	296-22368-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	1008.00/2,000		
SN74LVC374ARGYR	296-14910-1-ND	Tri-State Octal D-Type Flip-Flop	20-VQFN	.67	.47	.40
SN74LVC374ARGYR	296-14910-2-ND	Tri-State Octal D-Type Flip-Flop	20-VQFN	564.00/3,000		
SN74LVC540ADBR	296-8516-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.73	.51	.44
SN74LVC540ADBR	296-8516-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	410.00/2,000		
SN74LVC540ADGVR	296-12908-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.47	.40
SN74LVC540ADGVR	296-12908-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	372.00/2,000		
SN74LVC540ADWR	296-8517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.66	.47	.40
SN74LVC540ADWR	296-8517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74LVC540APW	296-26628-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.68	.51	.44
SN74LVC540APWR	296-12909-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.66	.47	.40
SN74LVC540APWR	296-12909-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74LVC540AQDWREP	296-22370-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.60	1.26	1.14
SN74LVC540AQDWREP	296-22370-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	1176.00/2,000		
SN74LVC540AQPWREP	296-22371-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.82	1.44	1.30
SN74LVC540AQPWREP	296-22371-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1344.00/2,000		
SN74LVC541ADBR	296-8518-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.73	.51	.44
SN74LVC541ADBR	296-8518-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	410.00/2,000		
SN74LVC541ADGVR	296-8519-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.47	.40
SN74LVC541ADGVR	296-8519-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	372.00/2,000		
SN74LVC541ADW	296-8520-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.68	.51	.44
SN74LVC541ADWR	296-14912-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.66	.47	.40
SN74LVC541ADWR	296-14912-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74LVC541ANSR	296-15847-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.73	.51	.44
SN74LVC541ANSR	296-15847-2-ND	Tri-State Octal Buffer/Driver	20-SOP	410.00/2,000		
SN74LVC541APWR	296-8521-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.66	.47	.40
SN74LVC541APWR	296-8521-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74LVC541AQPWREP	296-22373-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.37	1.08	.98
SN74LVC541AQPWREP	296-22373-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1008.00/2,000		
SN74LVC541ARGYR	296-13974-1-ND	Tri-State Octal Buffer/Driver	20-VQFN	.73	.51	.44
SN74LVC541ARGYR	296-13974-2-ND	Tri-State Octal Buffer/Driver	20-VQFN	615.00/3,000		
SN74LVC543ADW	296-8523-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.64	1.32	1.15
SN74LVC543APWR	296-8524-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.48	1.17	1.06
SN74LVC543APWR	296-8524-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1092.00/2,000		
SN74LVC573ADBR	296-8525-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.67	.47	.40
SN74LVC573ADBR	296-8525-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	376.00/2,000		
SN74LVC573ADGVR	296-8526-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.61	.43	.37
SN74LVC573ADGVR	296-8526-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	342.00/2,000		
SN74LVC573ADW	296-8527-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.63	.47	.40
SN74LVC573ADWR	296-14913-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.61	.43	.37
SN74LVC573ADWR	296-14913-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	342.00/2,000		
SN74LVC573AGQNR	296-12100-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.73	.57	.50
SN74LVC573AGQNR	296-12100-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	264.00/1,000		
SN74LVC573AN	296-8528-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.57	.43	.37
SN74LVC573APWR	296-8529-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.61	.43	.37
SN74LVC573APWR	296-8529-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	342.00/2,000		
SN74LVC573AQDWREP	296-22374-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	1.37	1.08	.98
SN74LVC573AQDWREP	296-22374-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	1008.00/2,000		
SN74LVC573AQPWREP	296-22375-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	1.37	1.08	.98
SN74LVC573AQPWREP	296-22375-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	1008.00/2,000		
SN74LVC573ARGYR	296-13975-1-ND	Tri-State Octal Transp. D-Type Latch	20-VQFN	.67	.47	.40
SN74LVC573ARGYR	296-13975-2-ND	Tri-State Octal Transp. D-Type Latch	20-VQFN	564.00/3,000		
SN74LVC574ADGVR	296-12475-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TVSOP	.61	.43	.37
SN74LVC574ADGVR	296-12475-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TVSOP	342.00/2,000		
SN74LVC574ADW	296-8531-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.63	.47	.40
SN74LVC574ADWR	296-14914-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.61	.43	.37
SN74LVC574ADWR	296-14914-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	342.00/2,000		
SN74LVC574AGQNR	296-12101-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	.73	.57	.50
SN74LVC574AGQNR	296-12101-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	264.00/1,000		
SN74LVC574AN	296-12910-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-Dip	.57	.43	.37
SN74LVC574APW	296-26630-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LVC574APWR	296-8532-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.61	.43	.37
SN74LVC574APWR	296-8532-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	342.00/2,000		
SN74LVC574AQDWREP	296-22376-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	1.37	1.08	.98
SN74LVC574AQDWREP	296-22376-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	1008.00/2,000		
SN74LVC574AQPWREP	296-22377-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	1.37	1.08	.98
SN74LVC574AQPWREP	296-22377-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	1008.00/2,000		
SN74LVC574ARGYR	296-13976-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-VQFN	.67	.47	.40
SN74LVC574ARGYR	296-13976-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-VQFN	564.00/3,000		
SN74LVC646ADBR	296-8533-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.93	1.49	1.35
SN74LVC646ADBR	296-8533-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1486.00/2,000		
SN74LVC646ADW	296-8534-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.71	1.38	1.24
SN74LVC646APWR	296-8535-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.75	1.38	1.25
SN74LVC646APWR	296-8535-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1288.00/2,000		
SN74LVC652ADBR	296-8536-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.63	1.29	1.16
SN74LVC652ADBR	296-8536-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1202.00/2,000		
SN74LVC652ADW	296-8537-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.64	1.32	1.15
SN74LVC652APWR	296-8538-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.48	1.17	1.06
SN74LVC652APWR	296-8538-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1092.00/2,000		
SN74LVC74AMDREP	296-24246-1-ND	Dual Positive Edge Triggered D-Type Flip Flop* ***NEW!***	14-SOIC	1.01	.79	.69
SN74LVC74AMDREP	296-24246-2-ND	Dual Positive Edge Triggered D-Type Flip Flop* ***NEW!***	14-SOIC	833.75/2,500		
SN74LVC821ADGVR	296-8540-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	1.33	1.05	.95
SN74LVC821ADGVR	296-8540-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	980.00/2,000		
SN74LVC821ADW	296-1703-5-ND	Tri-State 10-Bit Interface Flip-Flop	24-SOIC	1.47	1.18	1.03
SN74LVC821ADWR	296-1703-1-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	1.33	1.05	.95
SN74LVC821ADWR	296-1703-2-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	980.00/2,000		
SN74LVC821APWR	296-8541-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	1.33	1.05	.95
SN74LVC821APWR	296-8541-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	980.00/2,000		
SN74LVC823ADBR	296-8542-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	1.17	.93	.84
SN74LVC823ADBR	296-8542-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	862.00/2,000		
SN74LVC823ADGVR	296-8543-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	1.06	.84	.76
SN74LVC823ADGVR	296-8543-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	784.00/2,000		
SN74LVC823ADW	296-12911-5-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SOIC	1.18	.95	.83
SN74LVC827ADBR	296-8545-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.55	1.23	1.10
SN74LVC827ADBR	296-8545-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1140.00/2,000		
SN74LVC827ADGVR	296-8546-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.41	1.11	1.00
SN74LVC827ADGVR	296-8546-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1036.00/2,000		
SN74LVC827ADW	296-8547-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.55	1.25	1.09
SN74LVC827APWR	296-8548-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.41	1.11	1.00
SN74LVC827APWR	296-8548-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1036.00/2,000		

* ***RoHS Compliant***

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(Continued)

T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74LVC828ADGVR	296-12741-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.41	1.11	1.00
SN74LVC828ADGVR	296-12741-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1036.00/2,000		
SN74LVC828ADW	296-12913-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.55	1.25	1.09
SN74LVC828APWR	296-8549-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.41	1.11	1.00
SN74LVC828APWR	296-8549-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1036.00/2,000		
SN74LVC841ADBR	296-8550-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	2.63	2.03	1.84
SN74LVC841ADBR	296-8550-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	2026.00/2,000		
SN74LVC841ADGVR	296-8551-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	2.45	1.89	1.72
SN74LVC841ADGVR	296-8551-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1890.00/2,000		
SN74LVC841ADW	296-8552-5-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SOIC	2.64	2.13	1.92
SN74LVC841APWR	296-8553-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	2.45	1.89	1.72
SN74LVC841APWR	296-8553-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1890.00/2,000		
SN74LVC861ADBR	296-12914-1-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2.87	2.22	2.01
SN74LVC861ADBR	296-12914-2-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2214.00/2,000		
SN74LVC861ADGVR	296-8555-1-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2.87	2.22	2.01
SN74LVC861ADGVR	296-8555-2-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2214.00/2,000		
SN74LVC861ADW	296-8556-5-ND	Tri-State 10-Bit Bus Transceiver	24-SOIC	2.54	2.05	1.85
SN74LVC863ADBR	296-8557-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.87	2.22	2.01
SN74LVC863ADBR	296-8557-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2214.00/2,000		
SN74LVC863ADGVR	296-8558-1-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2.87	2.22	2.01
SN74LVC863ADGVR	296-8558-2-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2214.00/2,000		
SN74LVC863ADW	296-8559-5-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2.54	2.05	1.85
SN74LVC863APWR	296-8560-1-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2.87	2.22	2.01
SN74LVC863APWR	296-8560-2-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2214.00/2,000		
SN74LVC1404DCTR	296-17257-1-ND	Oscillator Driver	SM8	1.13	.90	.81
SN74LVC1404DCTR	296-17257-2-ND	Oscillator Driver	SM8	1248.00/3,000		
SN74LVC1404YEPR	296-18751-1-ND	Oscillator Driver	8-DSBGA	1.71	1.35	1.22
SN74LVC1404YEPR	296-18751-2-ND	Oscillator Driver	8-DSBGA	1890.00/3,000		
SN74LVC1404YZPR	296-18082-1-ND	Oscillator Driver	8-DSBGA	1.54	1.22	1.10
SN74LVC1404YZPR	296-18082-2-ND	Oscillator Driver	8-DSBGA	1701.00/3,000		
SN74LVC2244ADBR	296-8489-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.73	.57	.50
SN74LVC2244ADBR	296-8489-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	478.00/2,000		
SN74LVC2244ADBQR	296-23275-1-ND	Tri-State Octal Buffer/Driver	20-QSOP	.73	.57	.50
SN74LVC2244ADBQR	296-23275-2-ND	Tri-State Octal Buffer/Driver	20-QSOP	597.50/2,500		
SN74LVC2244ADGVR	296-12901-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.51	.45
SN74LVC2244ADGVR	296-12901-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	436.00/2,000		
SN74LVC2244ADW	296-8490-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.56	.49
SN74LVC2244ADWR	296-8490-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.66	.51	.45
SN74LVC2244ADWR	296-8490-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	436.00/2,000		
SN74LVC2244ANSR	296-13256-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.73	.57	.50
SN74LVC2244ANSR	296-13256-2-ND	Tri-State Octal Buffer/Driver	20-SOP	478.00/2,000		
SN74LVC2244APW	296-26606-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.72	.56	.49
SN74LVC2244APWR	296-8491-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.66	.51	.45
SN74LVC2244APWR	296-8491-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	436.00/2,000		
SN74LVC2952ADBR	296-12904-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.33	1.05	.95
SN74LVC2952ADBR	296-12904-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	980.00/2,000		
SN74LVC2952ADW	296-8507-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.23	.98	.86
SN74LVC4245ADBR	296-8514-1-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-SSOP	1.25	.99	.90
SN74LVC4245ADBR	296-8514-2-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-SSOP	924.00/2,000		
SN74LVC4245ADW	296-8515-5-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-SOIC	1.26	1.01	.89
SN74LVC4245ADWR	296-14911-1-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-SOIC	1.14	.90	.81
SN74LVC4245ADWR	296-14911-2-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-SOIC	840.00/2,000		
SN74LVC4245AIPWREP	296-22369-1-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-TSSOP	2.35	1.81	1.65
SN74LVC4245AIPWREP	296-22369-2-ND	Tri-St. Octal Bus Xcvr/3.3V-5V Shifter	24-TSSOP	1809.00/2,000		
SN74LVC4245APWR	296-12183-1-ND	Tri-State Octal Xcvr/3.3V-5V Shifter	24-TSSOP	1.14	.90	.81
SN74LVC4245APWR	296-12183-2-ND	Tri-State Octal Xcvr/3.3V-5V Shifter	24-TSSOP	840.00/2,000		
SN74LVC16244ADGGR	296-1226-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.44	1.14	1.03
SN74LVC16244ADGGR	296-1226-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVC16244ADGVR	296-8471-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.44	1.14	1.03
SN74LVC16244ADGVR	296-8471-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74LVC16244ADL	296-1227-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.73	1.39	1.22
SN74LVC16244ADLR	296-1227-1-ND	16-Bit Buffer/Driver	48-SSOP	1.59	1.26	1.13
SN74LVC16244ADLR	296-1227-2-ND	16-Bit Buffer/Driver	48-SSOP	627.00/1,000		
SN74LVC16244AGQLR	296-8472-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	2.10	1.62	1.47
SN74LVC16244AGQLR	296-8472-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	870.00/1,000		
SN74LVC16244AZQLR	296-16642-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	2.10	1.62	1.47
SN74LVC16244AZQLR	296-16642-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	870.00/1,000		
SN74LVC16244AZRDR	296-16882-1-ND	Tri-State 16-Bit Buffer/Driver	54-FBGA	2.10	1.62	1.47
SN74LVC16244AZRDR	296-16882-2-ND	Tri-State 16-Bit Buffer/Driver	54-FBGA	870.00/1,000		
SN74LVC16245ADGGR	296-1228-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.59	1.26	1.13
SN74LVC16245ADGGR	296-1228-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1170.00/2,000		
SN74LVC16245ADGVR	296-8473-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.59	1.26	1.13
SN74LVC16245ADGVR	296-8473-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1170.00/2,000		
SN74LVC16245ADL	296-8474-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
SN74LVC16245ADLR	296-8474-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.75	1.38	1.25
SN74LVC16245ADLR	296-8474-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	690.00/1,000		
SN74LVC16245AGQLR	296-9843-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2.28	1.76	1.60
SN74LVC16245AGQLR	296-9843-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	943.00/1,000		
SN74LVC16245AGRDR	296-16883-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.28	1.76	1.60
SN74LVC16245AGRDR	296-16883-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	943.00/1,000		
SN74LVC16245AZQLR	296-23271-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.28	1.76	1.60
SN74LVC16245AZQLR	296-23271-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	943.00/1,000		
SN74LVC16245AZRDR	296-16884-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.28	1.76	1.60
SN74LVC16245AZRDR	296-16884-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	943.00/1,000		
SN74LVC16373ADGGR	296-13241-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.44	1.14	1.03
SN74LVC16373ADGGR	296-13241-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1064.00/2,000		
SN74LVC16373ADGVR	296-13242-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.44	1.14	1.03
SN74LVC16373ADLR	296-13243-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	1.59	1.26	1.13
SN74LVC16373ADLR	296-13243-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	627.00/1,000		
SN74LVC16373AGQLR	296-13244-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	2.10	1.62	1.47
SN74LVC16373AGQLR	296-13244-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-BGA	870.00/1,000		
SN74LVC16373AZQLR	296-23272-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	2.10	1.62	1.47
SN74LVC16373AZQLR	296-23272-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	56-VFBGA	870.00/1,000		
SN74LVC16373DGGR	296-11848-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.44	1.14	1.03
SN74LVC16373DGGR	296-11848-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1064.00/2,000		
SN74LVC16373DL	296-11834-5-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	1.73	1.39	1.22
SN74LVC16373DLR	296-11834-1-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	1.59	1.26	1.13
SN74LVC16373DLR	296-11834-2-ND	Tri-St. 16-Bit Transparent D-Type Latch	48-SSOP	627.00/1,000		
SN74LVC16374ADGGR	296-13245-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.59	1.26	1.13
SN74LVC16374ADGGR	296-13245-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1170.00/2,000		
SN74LVC16374ADGVR	296-13246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1.59	1.26	1.13
SN74LVC16374ADGVR	296-13246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1170.00/2,000		
SN74LVC16374ADLR	296-13247-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.75	1.38	1.25
SN74LVC16374ADLR	296-13247-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	690.00/1,000		
SN74LVC16374AGQLR	296-13248-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	2.28	1.76	1.60
SN74LVC16374AGQLR	296-13248-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	943.00/1,000		
SN74LVC16374AGRDR	296-16885-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	2.28	1.76	1.60
SN74LVC16374AGRDR	296-16885-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	943.00/1,000		
SN74LVC16374AZRDR	296-16886-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	103-BGA	2.28	1.76	1.60
SN74LVC16374AZRDR	296-16886-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	103-BGA	943.00/1,000		
SN74LVC16374DGGR	296-11833-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.44	1.14	1.03
SN74LVC16374DGGR	296-11833-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74LVC16374DLR	296-11851-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.59	1.26	1.13
SN74LVC16374DLR	296-11851-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	627.00/1,000		
SN74LVC16543DGGR	296-9844-1-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	3.60	2.94	2.64
SN74LVC16543DGGR	296-9844-2-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	3192.00/2,000		
SN74LVC16646ADGVR	296-15562-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2.28	1.76	1.60
SN74LVC16646ADGVR	296-15562-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	1755.00/2,000		
SN74LVC16646ADLR	296-15563-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.28	1.76	1.60
SN74LVC16646ADLR	296-15563-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	943.00/1,000		
SN74LVC32244GKER	296-8509-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.08	3.34	3.00
SN74LVC32244GKER	296-8509-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	1904.00/1,000		
SN74LVC32244ZKER	296-23352-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2.10	1.62	1.47
SN74LVC32244ZKER	296-23352-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	870.00/1,000		
SN74LVC32245GKER	296-9855-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	12.40	10.30	9.36
SN74LVC32245GKER	296-9855-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	6318.00/1,000		
SN74LVC32245ZKER	296-15336-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	4.95	4.05	3.63
SN74LVC32245ZKER	296-15336-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	2310.00/1,000		
SN74LVC32373AGKER	296-18812-1-ND	Tri-State 32-Bit Transp. D-Type Latch	96-LFBGA	7.90	6.56	5.96
SN74LVC32373AGKER	296-18812-2-ND	Tri-State 32-Bit Transp. D-Type Latch	96-LFBGA	4023.00/1,000		
SN74LVC32373AZKER	296-18813-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	4.95	4.05	3.63
SN74LVC32373AZKER	296-18813-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	2310.00/1,000		
SN74LVC32374AGKER	296-15596-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	7.02	5.74	5.15
SN74LVC32374AGKER	296-15596-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3276.00/1,000		
SN74LVC161284DGGR	296-8466-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.79	1.41	1.27
SN74LVC161284DGGR	296-8466-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1316.00/2,000		
SN74LVC161284DL	296-8467-5-ND	Tri-State 19-Bit Bus Interface	48-SSOP	2.02	1.63	1.47
SN74LVC161284DLR	296-8467-1-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.93	1.49	1.35
SN74LVC161284DLR	296-8467-2-ND	Tri-State 19-Bit Bus Interface	48-SSOP	798.00/1,000		
SN74LVC162244ADGGR	296-13237-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.28	1.76	1.60
SN74LVC162244ADGGR	296-13237-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1756.00/2,000		
SN74LVC162244ADGVR	296-13238-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.28	1.76	1.60
SN74LVC162244ADGVR	296-13238-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1756.00/2,000		
SN74LVC162244ADLR	296-13239-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.45	1.89	1.72
SN74LVC162244ADLR	296-13239-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1015.00/1,000		
SN74LVC162244AGQLR	296-13240-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	3.00	2.45	2.20
SN74LVC162244AGQLR	296-13240-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	1400.00/1,000		
LVCC Family						
CLVCC3245AIDBREP	296-22112-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	2.77	2.14	1.94
CLVCC3245AIDBREP	296-22112-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	2133.00/2,000		
CLVCC3245AIDWREP	296-18096-1-ND	Tri-State Octal Bus Transceiver	24-SOIC	2.77	2.14	1.94
CLVCC3245AIDWREP	296-18096-2-ND	Tri-State Octal Bus Transceiver	24-SOIC	2133.00/2,000		
CLVCC3245AIPWREP	296-22113-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2.77	2.14	1.94
CLVCC3245AIPWREP	296-22113-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2133.00/2,000		
CLVCC4245AMPWREP	296-22114-1-ND	Tri-St. Octal Dual Supply Bus Transcvr.	24-TSSOP	3.15	2.58	2.31
CLVCC4245AMPWREP	296-22114-2-ND	Tri-St. Octal Dual Supply Bus Transcvr.	24-TSSOP	2793.00/2,000		
SN74LVCC3245ADBQR	296-23281-1-ND	Tri-State Octal Bus Transceiver	24-QSOP	1.46	1.16	1.04
SN74LVCC3245ADBQR	296-23281-2-ND	Tri-State Octal Bus Transceiver	24-QSOP	1347.50/2,500		
SN74LVCC3245ADBR	296-8563-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	1.46	1.16	1.04
SN74LVCC3245ADBR	296-8563-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	1078.00/2,000		
SN74LVCC3245ADW	296-1704-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.47	1.18	1.03
SN74LVCC3245ADWR	296-14916-1-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.33	1.05	.95
SN74LVCC3245ADWR	296-14916-2-ND	Tri-State Octal Bus Transceiver	24-SOIC	980.00/2,000		
SN74LVCC3245ANSR	296-17208-1-ND	Tri-State Octal Bus Transceiver	24-SOP	1.46	1.16	1.04
SN74LVCC3245ANSR	296-17208-2-ND	Tri-State Octal Bus Transceiver	24-SOP	1078.00/2,000		
SN74LVCC3245APWR	296-8564-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	1.33	1.05	.95
SN74LVCC3245APWR	296-8564-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	980.00/2,000		
SN74LVCC4245ADBR	296-8565-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	1.46	1.16	1.04
SN74LVCC4245ADBR	296-8565-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	1078.00/2,000		
SN74LVCC4245ADW	296-8566-5-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOIC	1.47	1.18	1.03
SN74LVCC4245ADWR	296-26634-1-ND	Tri-St. Octal Dual Bus Transceiver with Adjustable Output Voltage* ***NEW!***	24-SOIC	1.33	1.05	.95
SN74LVCC4245ADWR	296-26634-2-ND	Tri-St. Octal Dual Bus Transceiver with Adjustable Output Voltage* ***NEW!***	24-SOIC	980.00/2,000		
SN74LVCC4245ANSR	296-17209-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	1.33	1.05	.95
SN74LVCC4245ANSR	296-17209-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	980.00/2,000		
SN74LVCC4245APWR	296-8567-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	1.33	1.05	.95
SN74LVCC4245APWR	296-8567-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	980.00/2,000		
LVCE Family						
SN74LVCE161284DGGR	296-18822-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	3.00	2.45	2.20
SN74LVCE161284DGGR	296-18822-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	2660.00/2,000		
SN74LVCE161284DLR	296-16922-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	3.30	2.70	2.42
SN74LVCE161284DLR	296-16922-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	1540.00/1,000		
SN74LVCE161284VR	296-18824-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	3.00	2.45	2.20

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(Continued)

T.I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74LVCE161284VR	296-18824-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	2660.00/2,000		
LVCH Family						
74LVCH16T245ZQLR	296-18616-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	2.63	2.03	1.84
74LVCH16T245ZQLR	296-18616-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	56-VFBGA	1087.50/1,000		
74LVCH322244AZKER	296-23196-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.40	4.41	3.96
74LVCH322244AZKER	296-23196-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2520.00/1,000		
CLVCH16T245MDGGREP	296-23948-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4.50	3.68	3.30
CLVCH16T245MDGGREP	296-23948-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3990.00/2,000		
CLVCH16T245MDGVREP	296-23949-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4.50	3.68	3.30
CLVCH16T245MDGVREP	296-23949-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3990.00/2,000		
CLVCH16652AIDGGREP	296-22115-1-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	5.40	4.41	3.96
CLVCH16652AIDGGREP	296-22115-2-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	4788.00/2,000		
SN74LVCH8T245DBR	296-21067-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SSOP	1.33	1.05	.95
SN74LVCH8T245DBR	296-21067-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-SSOP	980.00/2,000		
SN74LVCH8T245PWR	296-21069-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	1.33	1.05	.95
SN74LVCH8T245PWR	296-21069-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-TSSOP	980.00/2,000		
SN74LVCH8T245RHLR	296-21070-1-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-QFN	1.48	1.17	1.06
SN74LVCH8T245RHLR	296-21070-2-ND	Tri-St. 8-Bit Dual Supply Bus Transcvr	24-QFN	583.50/1,000		
SN74LVCH16T245DGGR	296-19568-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	2.63	2.03	1.84
SN74LVCH16T245DGGR	296-19568-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	2026.00/2,000		
SN74LVCH16T245DGVR	296-21066-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	2.63	2.03	1.84
SN74LVCH16T245DGVR	296-21066-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TVSOP	2025.00/2,000		
SN74LVCH16T245DL	296-23283-5-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-SSOP	2.79	2.25	2.03
SN74LVCH16T245KR	296-18718-1-ND	16-Bit Dual-Supply Bus Transceiver	56-BGA	3.60	2.94	2.64
SN74LVCH16T245KR	296-18718-2-ND	16-Bit Dual-Supply Bus Transceiver	56-BGA	1680.00/1,000		
SN74LVCH244APW	296-26636-5-ND	Tri-State Octal Buffer/Driver* ***NEW!***	20-TSSOP	.63	.47	.40
SN74LVCH244ADBQR	296-23284-1-ND	Tri-State Octal Buffer/Driver	20-QSOP	.67	.47	.40
SN74LVCH244ADBQR	296-23284-2-ND	Tri-State Octal Buffer/Driver	20-QSOP	470.00/2,500		
SN74LVCH244ADBR	296-8607-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.67	.47	.40
SN74LVCH244ADBR	296-8607-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	376.00/2,000		
SN74LVCH244ADGVR	296-8608-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.61	.43	.37
SN74LVCH244ADGVR	296-8608-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	342.00/2,000		
SN74LVCH244ADWR	296-14917-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.61	.43	.37
SN74LVCH244ADWR	296-14917-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	342.00/2,000		
SN74LVCH244APWR	296-8610-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.61	.43	.37
SN74LVCH244APWR	296-8610-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	342.00/2,000		
SN74LVCH244ARGYR	296-13979-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.67	.47	.40
SN74LVCH244ARGYR	296-13979-2-ND	Tri-State Octal Buffer/Driver	20-QFN	564.00/3,000		
SN74LVCH245ADBR	296-8611-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.61	.43	.37
SN74LVCH245ADBR	296-8611-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	342.00/2,000		
SN74LVCH245ADGVR	296-8612-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.61	.43	.37
SN74LVCH245ADGVR	296-8612-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	342.00/2,000		
SN74LVCH245ADW	296-8613-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.63	.47	.40
SN74LVCH245ADWR	296-14918-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.66	.51	.45
SN74LVCH245ADWR	296-14918-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	435.00/2,000		
SN74LVCH245AGQNR	296-12102-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.67	.47	.40
SN74LVCH245AGQNR	296-12102-2-ND	Tri-State Octal Bus Transceiver	20-BGA	206.00/1,000		
SN74LVCH245APWR	296-1247-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.66	.51	.45
SN74LVCH245APWR	296-1247-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	436.00/2,000		
SN74LVCH245ARGYR	296-13980-1-ND	Tri-State Octal Bus Transceiver	20-VQFN	.95	.75	.68
SN74LVCH245ARGYR	296-13980-2-ND	Tri-State Octal Bus Transceiver	20-VQFN	1050.00/3,000		
SN74LVCH245AZQNR	296-24982-1-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-BGA	.97	.75	.66
SN74LVCH245AZQNR	296-24982-2-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-BGA	352.00/1,000		
SN74LVCH245AZXYR	296-24754-1-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-BGA	.61	.43	.37
SN74LVCH245AZXYR	296-24754-2-ND	Tri-State Octal Bus Transcvr.* ***NEW!***	20-BGA	427.50/2,500		
SN74LVCH16240ADGGR	296-8571-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.44	1.14	1.03
SN74LVCH16240ADGGR	296-8571-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVCH16240ADLR	296-8572-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.59	1.26	1.13
SN74LVCH16240ADLR	296-8572-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	627.00/1,000		
SN74LVCH16244ADGGR	296-8573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.44	1.14	1.03
SN74LVCH16244ADGGR	296-8573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVCH16244ADGVR	296-8574-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.44	1.14	1.03
SN74LVCH16244ADGVR	296-8574-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74LVCH16244ADL	296-1243-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.73	1.39	1.22
SN74LVCH16244ADLR	296-1243-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.59	1.26	1.13
SN74LVCH16244ADLR	296-1243-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	627.00/1,000		
SN74LVCH16244AGQLR	296-8578-1-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	2.10	1.62	1.47
SN74LVCH16244AGQLR	296-8578-2-ND	Tri-State 16-Bit Buffer/Driver	56-BGA	870.00/1,000		
SN74LVCH16244AGRDR	296-16887-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.10	1.62	1.47
SN74LVCH16244AGRDR	296-16887-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	870.00/1,000		
SN74LVCH16244AZQLR	296-23282-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.10	1.62	1.47
SN74LVCH16244AZQLR	296-23282-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	870.00/1,000		
SN74LVCH16244AZRDR	296-16888-1-ND	Tri-State 16-Bit Buffer/Driver	54-FBGA	2.10	1.62	1.47
SN74LVCH16244AZRDR	296-16888-2-ND	Tri-State 16-Bit Buffer/Driver	54-FBGA	870.00/1,000		
SN74LVCH16245ADGGR	296-1244-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.44	1.14	1.03
SN74LVCH16245ADGGR	296-1244-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74LVCH16245ADGVR	296-8580-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.44	1.14	1.03
SN74LVCH16245ADGVR	296-8580-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74LVCH16245ADL	296-1245-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.73	1.39	1.22
SN74LVCH16245ADLR	296-1245-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.59	1.26	1.13
SN74LVCH16245ADLR	296-1245-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	627.00/1,000		
SN74LVCH16245AGQLR	296-8582-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2.10	1.62	1.47
SN74LVCH16245AGQLR	296-8582-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	870.00/1,000		
SN74LVCH16245AGRDR	296-16889-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.10	1.62	1.47
SN74LVCH16245AGRDR	296-16889-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	870.00/1,000		
SN74LVCH16245AZRDR	296-16890-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.10	1.62	1.47
SN74LVCH16245AZRDR	296-16890-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	870.00/1,000		
SN74LVCH16373ADGGR	296-8583-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.44	1.14	1.03
SN74LVCH16373ADGGR	296-8583-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1064.00/2,000		
SN74LVCH16373ADGVR	296-8584-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.44	1.14	1.03
SN74LVCH16373ADGVR	296-8584-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1064.00/2,000		
SN74LVCH16373ADL	296-8585-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.73	1.39	1.22
SN74LVCH16373ADLR	296-8585-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.59	1.26	1.13
SN74LVCH16373ADLR	296-8585-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	627.00/1,000		
SN74LVCH16373AGQLR	296-8586-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-BGA	2.10	1.62	1.47
SN74LVCH16373AGQLR	296-8586-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-BGA	870.00/1,000		
SN74LVCH16374ADGGR	296-8587-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.44	1.14	1.03
SN74LVCH16374ADGGR	296-8587-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74LVCH16374ADGVR	296-8588-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.44	1.14	1.03
SN74LVCH16374ADGVR	296-8588-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1064.00/2,000		
SN74LVCH16374ADLR	296-8589-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.59	1.26	1.13
SN74LVCH16374ADLR	296-8589-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	627.00/1,000		
SN74LVCH16374AGQLR	296-8590-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-BGA	2.10	1.62	1.47
SN74LVCH16374AGQLR	296-8590-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-BGA	870.00/1,000		
SN74LVCH16540ADGGR	296-8591-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.30	2.70	2.42
SN74LVCH16540ADGGR	296-8591-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2926.00/2,000		
SN74LVCH16540ADGVR	296-8592-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3.30	2.70	2.42
SN74LVCH16540ADGVR	296-8592-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2926.00/2,000		
SN74LVCH16540ADL	296-8593-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	3.50	2.82	2.57
SN74LVCH16541ADGGR	296-8594-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.71	1.35	1.22
SN74LVCH16541ADGGR	296-8594-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1260.00/2,000		
SN74LVCH16541ADGVR	296-8595-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.71	1.35	1.22
SN74LVCH16541ADGVR	296-8595-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1260.00/2,000		
SN74LVCH16541ADL	296-8596-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.86	1.50	1.35
SN74LVCH16543ADGGR	296-1246-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	2.63	2.03	1.84
SN74LVCH16543ADGGR	296-1246-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	2026.00/2,000		
SN74LVCH16543ADGVR	296-8597-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	2.63	2.03	1.84
SN74LVCH16543ADGVR	296-8597-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	2026.00/2,000		
SN74LVCH16543ADL	296-8598-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.95	2.38	2.14
SN74LVCH16543ADLR	296-8598-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	2.80	2.16	1.96
SN74LVCH16543ADLR	296-8598-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1160.00/1,000		
SN74LVCH16543AGQLR	296-13287-1-ND	Tri-State 16-Bit Registered Transceiver	56-BGA	3.30	2.70	2.42
SN74LVCH16543AGQLR	296-13287-2-ND	Tri-State 16-Bit Registered Transceiver	56-BGA	1540.00/1,000		
SN74LVCH16646ADGGR	296-8599-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2.80	2.16	1.96
SN74LVCH16646ADGGR	296-8599-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2160.00/2,000		
SN74LVCH16646ADGVR	296-9859-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2.80	2.16	1.96
SN74LVCH16646ADGVR	296-9859-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2160.00/2,000		
SN74LVCH16646ADL	296-8600-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	2.48	2.00	1.80
SN74LVCH16652ADGGR	296-8601-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	3.15	2.43	2.21
SN74LVCH16652ADGGR	296-8601-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2430.00/2,000		
SN74LVCH16652ADGVR	296-8602-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	3.15	2.43	2.21
SN74LVCH16652ADGVR	296-8602-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2430.00/2,000		
SN74LVCH16652ADL	296-8603-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	3.22	2.59	2.36
SN74LVCH16901DGGR	296-8604-1-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	9.94	8.25	7.50
SN74LVCH16901DGGR	296-8604-2-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	9750.00/2,000		
SN74LVCH16952ADGGR	296-8605-1-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	4.80	3.92	3.52
SN74LVCH16952ADGGR	296-8605-2-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	4256.00/2,000		
SN74LVCH16952ADGVR	296-12916-1-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	4.80	3.92	3.52
SN74LVCH16952ADGVR	296-12916-2-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	4256.00/2,000		
SN74LVCH16952ADL	296-8606-5-ND	Tri-State 16-Bit Register Transceiver	56-SSOP	5.88	4.73	4.31
SN74LVCH32244AGKER	296-8614-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	7.90	6.56	5.96
SN74LVCH32244AGKER	296-8614-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4023.00/1,000		
SN74LVCH32244AZKER	296-22018-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.95	4.05	3.63
SN74LVCH32244AZKER	296-22018-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2310.00/1,000		
SN74LVCH32245AGKER	296-8615-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	7.26	5.93	5.33
SN74LVCH32245AGKER	296-8615-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3388.00/1,000		
SN74LVCH32245AZKER	296-23285-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	4.05	3.31	2.97
SN74LVCH32245AZKER	296-23285-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	1890.00/1,000		
SN74LVCH32373AGKER	296-8616-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	12.40	10.30	9.36
SN74LVCH32373AGKER	296-8616-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	6318.00/1,000		
SN74LVCH32374AGKER	296-8617-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	12.40	10.30	9.36
SN74LVCH32374AGKER	296-8617-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	6318.00/1,000		
SN74LVCH162244ADLR	296-8568-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.76	1.39	1.25
SN74LVCH162244ADLR	296-8568-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	693.00/1,000		
SN74LVCH162244AGR	296-8569-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.60	1.26	1.14
SN74LVCH162244AGR	296-8569-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1176.00/2,000		
SN74LVCH162244AVR	296-8570-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.60	1.26	1.14
SN74LVCH162244AVR	296-8570-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1176.00/2,000		
SN74LVCH32373AZKER	296-21515-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	6.89	5.72	5.20
SN74LVCH32373AZKER	296-21515-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-BGA	3510.00/1,000		
SN74LVCH322244AKR	296-15599-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.40	4.41	3.96
SN74LVCH322244AKR	296-15599-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2520.00/1,000		
LVCHR Family						
74LVCHR16245AZQLR	296-23197-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.80	2.16	1.96
74LVCHR16245AZQLR	296-23197-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1160.00/1,000		
74LVCHR16245AZRDR	296-23198-1-ND	Tri-State 16-Bit Bus Transceiver	54-FBGA	2.80	2.16	1.96
74LVCHR16245AZRDR	296-23198-2-ND	Tri-State 16-Bit Bus Transceiver	54-FBGA	1160.00/1,000		
74LVCHR32245AZKER	296-18354-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	4.65	3.80	3.41
74LVCHR32245AZKER	296-18354-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	2170.00/1,000		
SN74LVCHR16245AGR	296-9860-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.79	1.41	1.27
SN74LVCHR16245AGR	296-9860-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1316.00/2,000		
SN74LVCHR16245AKR	296-14400-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2.63	2.03	1.84
SN74LVCHR16245AKR	296-14400-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	1088.00/1,000		
SN74LVCHR16245ALR	296-1248-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.93	1.49	1.35
SN74LVCHR16245ALR	296-1248-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	798.00/1,000		
SN74LVCHR16245AVR	296-15600-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.79	1.41	1.27
SN74LVCHR16245AVR	296-15600-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1316.00/2,000		
SN74LVCHR32245AKR	296-18825-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.65	3.80	3.41
SN74LVCHR32245AKR	296-18825-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2170.00/1,000		
SN74LVCHR162245ADL	296-8618-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
LVCR Family						
SN74LVCR2245ADBQR	296-23287-1-ND	Tri-State Octal Bus Transceiver	20-QSOP	1.06	.83	.73
SN74LVCR2245ADBQR	296-23287-2-ND	Tri-State Octal Bus Transceiver	20-QSOP	877.50/2,500		
SN74LVCR2245ADGVR	296-8622-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.97	.75	.66
SN74LVCR2245ADGVR	296-8622-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	638.00/2,000		
SN74LVCR2245ADWR	296-8623-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.97	.75	.66
SN74LVCR2245ADWR	296-8623-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74LVCR2245AGQNR	296-12103-1-ND	Tri-State Octal Bus Transceiver	20-BGA	1.25	.99	.90
SN74LVCR2245AGQNR	296-12103-2-ND	Tri-State Octal Bus Transceiver	20-BGA	495.00/1,000		
SN74LVCR2245ANSR	296-13288-1-ND	Tri-State Octal Bus Transceiver	20-SOP	1.06	.83	.73
SN74LVCR2245ANSR	296-13288-2-ND	Tri-State Octal Bus Transceiver	20-SOP	702.00/2,000		
SN74LVCR2245APWR	296-8624-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.97	.75	.66
SN74LVCR2245APWR	296-8624-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	638.00/2,000		
SN74LVCR2245ARGYR	296-13981-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.06	.83	.73
SN74LVCR2245ARGYR	296-13981-2-ND	Tri-State Octal Bus Transceiver	20-QFN	1053.00/3,000		
SN74LVCR2245AZQNR	296-23288-1-ND	Tri-State Octal Bus Transceiver	20-BGA	1.25	.99	.90
SN74LVCR2245AZQNR	296-23288-2-ND	Tri-State Octal Bus Transceiver	20-BGA	495.00/1,000		
SN74LVCR16245ADGGR	296-15601-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.15	2.43	2.21
SN74LVCR16245ADGGR	296-15601-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2430.00/2,000		
SN74LVCR16245ADGVR	296-15602-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.15	2.43	2.21
SN74LVCR16245ADGVR	296-15602-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2430.00/2,000		
SN74LVCR16245ADLR	296-15603-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3.00	2.45	2.20
SN74LVCR16245ADLR	296-15603-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1400.00/1,000		
SN74LVCR16245AZQLR	296-23286-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	4.05	3.31	2.97
SN74LVCR16245AZQLR	296-23286-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1890.00/1,000		
SN74LVCR32245AGKER	296-15604-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	7.14	5.84	5.24
SN74LVCR32245AGKER	296-15604-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3332.00/1,000		
SN74LVCR32245AZKER	296-23289-1-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	4.05	3.31	2.97
SN74LVCR32245AZKER	296-23289-2-ND	Tri-State 32-Bit Bus Transceiver	96-BGA	1890.00/1,000		
SN74LVCR162245DGGR	296-8619-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.60	1.26	1.14
SN74LVCR162245DGGR	296-8619-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1176.00/2,000		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCR162245DL	296-8620-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
SN74LVCR162245KR	296-12707-1-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	2.28	1.76	1.60
SN74LVCR162245KR	296-12707-2-ND	Tri-State 16-Bit Bus Transceiver	56-BGA	943.00/1,000		
LVCU Family						
SN74LVCU04AD	296-9861-5-ND	Hex Inverter	14-SOIC	.96	.75	.65
SN74LVCU04ADR	296-9861-1-ND	Hex Inverter	14-SOIC	.88	.68	.60
SN74LVCU04ADR	296-9861-2-ND	Hex Inverter	14-SOIC	725.00/2,500		
SN74LVCU04ADBR	296-9862-1-ND	Hex Inverter	14-SSOP	.97	.75	.66
SN74LVCU04ADBR	296-9862-2-ND	Hex Inverter	14-SSOP	638.00/2,000		
SN74LVCU04ADGVR	296-9863-1-ND	Hex Inverter	14-TVSOP	.88	.68	.60
SN74LVCU04ADGVR	296-9863-2-ND	Hex Inverter	14-TVSOP	580.00/2,000		
SN74LVCU04APWR	296-9865-1-ND	Hex Inverter	14-TSSOP	.88	.68	.60
SN74LVCU04APWR	296-9865-2-ND	Hex Inverter	14-TSSOP	580.00/2,000		
LVCZ Family						
SN74LVCZ240ADGVR	296-9871-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.33	1.05	.95
SN74LVCZ240ADGVR	296-9871-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	980.00/2,000		
SN74LVCZ240ADWR	296-9872-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.33	1.05	.95
SN74LVCZ240ADWR	296-9872-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	980.00/2,000		
SN74LVCZ240ANSR	296-12993-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.33	1.05	.95
SN74LVCZ240ANSR	296-12993-2-ND	Tri-State Octal Buffer/Driver	20-SOP	980.00/2,000		
SN74LVCZ240APW	296-9873-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.23	.98	.86
SN74LVCZ240APWR	296-9873-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.33	1.05	.95
SN74LVCZ240APWR	296-9873-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	980.00/2,000		
SN74LVCZ244ADBR	296-9874-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.63	1.29	1.16
SN74LVCZ244ADBR	296-9874-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	1202.00/2,000		
SN74LVCZ244ADWR	296-9875-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.48	1.17	1.06
SN74LVCZ244ADWR	296-9875-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	1092.00/2,000		
SN74LVCZ244APW	296-9876-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.64	1.32	1.15
SN74LVCZ244APWR	296-9876-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.48	1.17	1.06
SN74LVCZ244APWR	296-9876-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1092.00/2,000		
SN74LVCZ245ADBR	296-9877-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.63	1.29	1.16
SN74LVCZ245ADBR	296-9877-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	1202.00/2,000		
SN74LVCZ245ADWR	296-9878-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.48	1.17	1.06
SN74LVCZ245ADWR	296-9878-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	1092.00/2,000		
SN74LVCZ245APW	296-9879-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.64	1.32	1.15
SN74LVCZ245APWR	296-9879-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.48	1.17	1.06
SN74LVCZ245APWR	296-9879-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1092.00/2,000		
SN74LVCZ16240ADGGR	296-9866-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.45	2.82	2.53
SN74LVCZ16240ADGGR	296-9866-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3059.00/2,000		
SN74LVCZ16244ADGGR	296-9868-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.80	2.16	1.96
SN74LVCZ16244ADGGR	296-9868-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2160.00/2,000		
SN74LVCZ16244ADGVR	296-15606-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.80	2.16	1.96
SN74LVCZ16244ADGVR	296-15606-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2160.00/2,000		
SN74LVCZ16244ADLR	296-9869-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	3.15	2.43	2.21
SN74LVCZ16244ADLR	296-9869-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1305.00/1,000		
SN74LVCZ16245ADGGR	296-13289-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.80	2.16	1.96
SN74LVCZ16245ADGGR	296-13289-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2160.00/2,000		
SN74LVCZ16245ADGVR	296-13612-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.80	2.16	1.96
SN74LVCZ16245ADGVR	296-13612-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2160.00/2,000		
SN74LVCZ16245ADLR	296-13290-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3.15	2.43	2.21
SN74LVCZ16245ADLR	296-13290-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1305.00/1,000		
SN74LVCZ32240AGKER	296-15607-1-ND	Tri-State 32-Bit Buffer/Driver	96-FBGA	8.35	6.93	6.30
SN74LVCZ32240AGKER	296-15607-2-ND	Tri-State 32-Bit Buffer/Driver	96-FBGA	4253.00/1,000		
SN74LVCZ32244AGKER	296-15608-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	8.35	6.93	6.30
SN74LVCZ32244AGKER	296-15608-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4253.00/1,000		
SN74LVCZ32245AGKER	296-15609-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	8.35	6.93	6.30
SN74LVCZ32245AGKER	296-15609-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4253.00/1,000		
SN74LVCZ32245AZKER	296-25441-1-ND	Tri-State 32-Bit Bus Transcvr.* ***NEW!***	96-LFBGA	5.25	4.29	3.85
SN74LVCZ32245AZKER	296-25441-2-ND	Tri-State 32-Bit Bus Transcvr.* ***NEW!***	96-LFBGA	2450.00/1,000		
SN74LVCZ161284AGR	296-12025-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	2.45	1.89	1.72
SN74LVCZ161284AGR	296-12025-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1890.00/2,000		
LVT Family						
SN74LVT125D	296-1249-5-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.71	1.38	1.24
SN74LVT125DR	296-1249-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.67	1.32	1.19
SN74LVT125DR	296-1249-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1540.00/2,500		
SN74LVT125NSR	296-13291-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1.84	1.46	1.31
SN74LVT125NSR	296-13291-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1356.00/2,000		
SN74LVT125PWR	296-1250-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1.67	1.32	1.19
SN74LVT125PWR	296-1250-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1232.00/2,000		
SN74LVT125QPWREP	296-19508-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	3.60	2.94	2.64
SN74LVT125QPWREP	296-19508-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	3192.00/2,000		
SN74LVT125QPWRG4Q1	296-24558-1-ND	Tri-State 3.3V ABT Quad Bus Buffer* ***NEW!***	14-TSSOP	1.93	1.49	1.35
SN74LVT125QPWRG4Q1	296-24558-2-ND	Tri-State 3.3V ABT Quad Bus Buffer* ***NEW!***	14-TSSOP	1486.00/2,000		
SN74LVT240ADBR	296-14924-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	1.13	.90	.81
SN74LVT240ADBR	296-14924-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	832.00/2,000		
SN74LVT240ADW	296-1706-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	1.13	.91	.80
SN74LVT240ADWR	296-14925-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	1.03	.81	.73
SN74LVT240ADWR	296-14925-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	756.00/2,000		
SN74LVT240APWR	296-8647-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1.03	.81	.73
SN74LVT240APWR	296-8647-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	756.00/2,000		
SN74LVT244BDBR	296-8648-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.96	.76	.69
SN74LVT244BDBR	296-8648-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	708.00/2,000		
SN74LVT244BDW	296-1707-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.97	.78	.68
SN74LVT244BDWR	296-14926-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	1.01	.79	.69
SN74LVT244BDWR	296-14926-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	667.00/2,000		
SN74LVT244BGQNR	296-12104-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	1.31	1.04	.94
SN74LVT244BGQNR	296-12104-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	518.00/1,000		
SN74LVT244BPWR	296-8649-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	1.01	.79	.69
SN74LVT244BPWR	296-8649-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	668.00/2,000		
SN74LVT244BRGYR	296-13982-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	.96	.76	.69
SN74LVT244BRGYR	296-13982-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	1062.00/3,000		
SN74LVT245BDBR	296-8650-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	.96	.76	.69
SN74LVT245BDBR	296-8650-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	708.00/2,000		
SN74LVT245BDW	296-8651-5-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	.97	.78	.68
SN74LVT245BDWR	296-8651-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	1.01	.79	.69
SN74LVT245BDWR	296-8651-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	668.00/2,000		
SN74LVT245BGQNR	296-12105-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	1.31	1.04	.94
SN74LVT245BGQNR	296-12105-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	518.00/1,000		
SN74LVT245BNSR	296-13294-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	.96	.76	.69
SN74LVT245BNSR	296-13294-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	708.00/2,000		
SN74LVT245BPW	296-26639-5-ND	Tri-St. 3.3V ABT Octal Bus Transceiver* ***NEW!***	20-TSSOP	.97	.78	.68
SN74LVT245BPWR	296-8652-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	1.01	.79	.69
SN74LVT245BPWR	296-8652-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	668.00/2,000		
SN74LVT245BRGYR	296-13983-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	.96	.76	.69
SN74LVT245BRGYR	296-13983-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	1062.00/3,000		
SN74LVT543PWR	296-13295-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2.80	2.16	1.96
SN74LVT543PWR	296-13295-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2160.00/2,000		
SN74LVT573DBR	296-8654-1-ND	Octal Transparent Latch	20-SSOP	3.15	2.43	2.21
SN74LVT573DBR	296-8654-2-ND	Octal Transparent Latch	20-SSOP	2430.00/2,000		
SN74LVT573DWR	296-1255-1-ND	3.3V Octal Transparent Latch	20-SOIC	2.80	2.16	1.96
SN74LVT573DWR	296-1255-2-ND	3.3V Octal Transparent Latch	20-SOIC	2160.00/2,000		
SN74LVT8980ADW	296-13498-5-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	11.15	9.15	8.26
SN74LVT8980ADWR	296-15986-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	11.82	9.82	8.92
SN74LVT8980ADWR	296-15986-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	11596.00/2,000		
SN74LVT8980AIDWREP	296-22384-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	14.97	12.70	11.72
SN74LVT8980AIDWREP	296-22384-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	16600.50/2,000		
SN74LVT8986GGV	296-14927-5-ND	3.3V Linking Addressable Scan Port	64-BGA	12.54	10.55	9.69
SN74LVT8986PM	296-14928-5-ND	3.3V Linking Addressable Scan Port	64-LQFP	12.32	10.36	9.52
SN74LVT8996DW	296-8656-5-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	11.25	9.23	8.33
SN74LVT8996DWR	296-8656-1-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	11.93	9.90	9.00
SN74LVT8996DWR	296-8656-2-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	11700.00/2,000		
SN74LVT8996IPWREP	296-22385-1-ND	3.3V, 10-Bit Addressable Scan Port Transcvr (IEEE STD 1149.1)	24-TSSOP	16.88	14.32	13.22
SN74LVT8996IPWREP	296-22385-2-ND	3.3V, 10-Bit Addressable Scan Port Transcvr (IEEE STD 1149.1)	24-TSSOP	18717.00/2,000		
SN74LVT8996PW	296-8657-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11.25	9.23	8.33
SN74LVT8996PWR	296-8657-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11.93	9.90	9.00
SN74LVT8996PWR	296-8657-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11700.00/2,000		
SN74LVT16240DGGR	296-8633-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2.10	1.62	1.47
SN74LVT16240DGGR	296-8633-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1620.00/2,000		
SN74LVT16240DLR	296-8634-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	2.45	1.89	1.72
SN74LVT16240DLR	296-8634-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1015.00/1,000		
SN74LVT16244BDGGR	296-8635-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2.10	1.62	1.47
SN74LVT16244BDGGR	296-8635-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1620.00/2,000		
SN74LVT16244BDGVR	296-8636-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	2.10	1.62	1.47
SN74LVT16244BDGVR	296-8636-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	1620.00/2,000		
SN74LVT16244BDLR	296-8637-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	2.45	1.89	1.72
SN74LVT16244BDLR	296-8637-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1015.00/1,000		
SN74LVT16244BGQLR	296-8638-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-BGA	3.15	2.43	2.21
SN74LVT16244BGQLR	296-8638-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-BGA	1305.00/1,000		
SN74LVT16245ADGGR	296-1251-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3.00	2.45	2.20
SN74LVT16245ADGGR	296-1251-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2660.00/2,000		
SN74LVT16245ADL	296-8639-5-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	3.64	2.93	2.67
SN74LVT16245BDGGR	296-8640-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2.10	1.62	1.47
SN74LVT16245BDGGR	296-8640-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
SN74LVT16245BDGVR	296-8641-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TVSOP	2.10	1.62	1.47
SN74LVT16245BDGVR	296-8641-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TVSOP	1620.00/2,000		
SN74LVT16245BDLR	296-8642-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	2.10	1.62	1.47
SN74LVT16245BDLR	296-8642-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	1015.00/1,000		
SN74LVT16245BGQLR	296-8643-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-BGA	3.15	2.43	2.21
SN74LVT16245BGQLR	296-8643-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-BGA	1305.00/1,000		
SN74LVT16245BZRDR	296-22019-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	54-BGA	3.15	2.43	2.21
SN74LVT16245BZRDR	296-22019-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	54-BGA	1305.00/1,000		
SN74LVT16500DGGR	296-14920-1-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	3.75	3.07	2.75
SN74LVT16500DGGR	296-14920-2-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	3326.00/2,000		
SN74LVT16500DLR	296-8644-1-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	4.05	3.31	2.97
SN74LVT16500DLR	296-8644-2-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	1890.00/1,000		
SN74LVT16501DGGR	296-1252-1-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	3.75	3.07	2.75
SN74LVT16501DGGR	296-1252-2-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-TSSOP	3326.00/2,000		
SN74LVT16501DLR	296-14921-1-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	4.05	3.31	2.97
SN74LVT16501DLR	296-14921-2-ND	Tri-State 3.3V ABT 18-Bit Universal Bus Transceiver	56-SSOP	1890.00/1,000		
SN74LVT16543DGGR	296-14922-1-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	3.75	3.07	2.75
SN74LVT16543DGGR	296-14922-2-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	3326.00/2,000		
SN74LVT16543DLR	296-8645-1-ND	Registered Transceiver	56-SSOP	4.05	3.31	2.97
SN74LVT16543DLR	296-8645-2-ND	Registered Transceiver	56-SSOP	1890.00/1,000		
SN74LVT16646DGGR	296-14923-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	5.55	4.54	4.07
SN74LVT16646DGGR	296-14923-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	4922.00/2,000		
SN74LVT16952DGGR	296-1253-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	3.87	3.17	2.84
SN74LVT16952DGGR	296-1253-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	3431.40/2,000		
SN74LVT16952DLR	296-1254-1-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	4.35	3.56	3.19
SN74LVT16952DLR	296-1254-2-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	2030.00/1,000		
SN74LVT18512DGGR	296-8646-1-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	7.95	6.60	6.00
SN74LVT18512DGGR	296-8646-2-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	7800.00/2,000		
SN74LVT32240GKER	296-9881-1-ND	3.3V ABT 32-Bit Buffer/Driver	96-BGA	7.02	5.74	5.15
SN74LVT32240GKER	296-9881-2-ND	3.3V ABT 32-Bit Buffer/Driver	96-BGA	3276.00/1,000		
SN74LVT32244GKER	296-8653-1-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	7.02	5.74	5.15
SN74LVT32244GKER	296-8653-2-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	3276.00/1,000		
SN74LVT162240DGGR	296-8625-1-ND	Tri-St., 3.3V, ABT Quad Bus Buffer/Dvr.	48-TSSOP	2.10	1.62	1.47
SN74LVT162240DGGR	296-8625-2-ND	Tri-St., 3.3V, ABT Quad Bus Buffer/Dvr.	48-TSSOP	1620.00/2,000		
SN74LVT162240DGVR	296-8626-1-ND	Tri-St. 3.3V, ABT Quad Bus Buffer/Dvr.	48-TVSOP	2.10	1.62	1.47
SN74LVT162240DGVR	296-8626-2-ND	Tri-St., 3.3V, ABT Quad Bus Buffer/Dvr.	48-TVSOP	1620.00/2,000		
SN74LVT162240DLR	296-8627-1-ND	Tri-St., 3.3V, ABT Quad Bus Buffer/Dvr.	48-SSOP	2.45	1.89	1.72
SN74LVT162240DLR	296-8627-2-ND	Tri-St., 3.3V, ABT Quad Bus Buffer/Dvr.	48-SSOP	1015.00/1,000		
SN74LVT162244ADGGR	296-8628-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	2.10	1.62	1.47
SN74LVT162244ADGGR	296-8628-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	1620.00/2,000		
SN74LVT162244ADGVR	296-8629-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	2.10	1.62	1.47
SN74LVT162244ADGVR	296-8629-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	1620.00/2,000		
SN74LVT162244ADLR	296-8630-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	2.45	1.89	1.72
SN74LVT162244ADLR	296-8630-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	1015.00/1,000		

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVT162244AGQLR	296-13292-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-BGA	3.15	2.43	2.21
SN74LVT162244AGQLR	296-13292-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-BGA	1305.00/1,000		
SN74LVT162244AGRDR	296-16891-1-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	3.15	2.43	2.21
SN74LVT162244AGRDR	296-16891-2-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	1305.00/1,000		
SN74LVT162244AZQLR	296-24983-1-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver* ***NEW!***	56-BGA	3.15	2.43	2.21
SN74LVT162244AZQLR	296-24983-2-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver* ***NEW!***	56-BGA	1305.00/1,000		
SN74LVT162244AZRDR	296-16892-1-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver	54-FBGA	3.15	2.43	2.21
SN74LVT162244AZRDR	296-16892-2-ND	Tri-St. 3.3V, ABT 16-Bit Buffer/Driver	54-FBGA	1305.00/1,000		
SN74LVT162245ADGGR	296-8631-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2.10	1.62	1.47
SN74LVT162245ADGGR	296-8631-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
SN74LVT162245ADLR	296-8632-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	2.45	1.89	1.72
SN74LVT162245ADLR	296-8632-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	1015.00/1,000		
SN74LVT162245AGQLR	296-13293-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-BGA	3.15	2.43	2.21
SN74LVT162245AGQLR	296-13293-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-BGA	1305.00/1,000		
LVTH Family						
8V18502AIPMREP	296-22076-1-ND	3.3V ABT Scan Test Device	64-LQFP	19.04	16.15	14.91
8V18502AIPMREP	296-22076-2-ND	3.3V ABT Scan Test Device	64-LQFP	11012.40/1,000		
8V182512IDGGREP	296-22075-1-ND	3.3V ABT Scan Test Device	64-TSSOP	19.04	16.15	14.91
8V182512IDGGREP	296-22075-2-ND	3.3V ABT Scan Test Device	64-TSSOP	21114.00/2,000		
8V18646AIPMREP	296-22077-1-ND	3.3V ABT Scan Test Device	64-LQFP	39.08	34.15	31.89
8V18646AIPMREP	296-22077-2-ND	3.3V ABT Scan Test Device	64-LQFP	26226.75/1,000		
74LVTH162244ZQLR	296-24977-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver* ***NEW!***	56-BGA	2.63	2.03	1.84
74LVTH162244ZQLR	296-24977-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver* ***NEW!***	56-BGA	1088.00/1,000		
74LVTH162244ZRDR	296-16876-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	54-FBGA	2.63	2.03	1.84
74LVTH162244ZRDR	296-16876-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	54-FBGA	1088.00/1,000		
74LVTH162245GRDR	296-16877-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	2.98	2.30	2.09
74LVTH162245GRDR	296-16877-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	1233.00/1,000		
74LVTH162245ZRDR	296-16878-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	103-BGA	2.98	2.30	2.09
74LVTH162245ZRDR	296-16878-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	103-BGA	1233.00/1,000		
74LVTH162373ZQLR	296-23493-1-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	56-BGA	2.45	1.89	1.72
74LVTH162373ZQLR	296-23493-2-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	56-BGA	1015.00/1,000		
74LVTH162374ZRDR	296-16880-1-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	103-BGA	2.45	1.89	1.72
74LVTH162374ZRDR	296-16880-2-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	103-BGA	1015.00/1,000		
CLVTH16240IDGGREP	296-22121-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3.15	2.43	2.21
CLVTH16240IDGGREP	296-22121-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2430.00/2,000		
CLVTH16244AIDGVREP	296-22122-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	3.47	2.68	2.43
CLVTH16244AIDGVREP	296-22122-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	2673.00/2,000		
CLVTH16244AIZQLREP	296-22124-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	4.05	3.31	2.97
CLVTH16244AIZQLREP	296-22124-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	1890.00/1,000		
CLVTH16244AMDGGREP	296-22125-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3.60	2.94	2.64
CLVTH16244AMDGGREP	296-22125-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3192.00/2,000		
CLVTH16244AQDGGREP	296-18097-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3.60	2.94	2.64
CLVTH16244AQDGGREP	296-18097-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3192.00/2,000		
CLVTH16244AQDLREP	296-22126-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	3.60	2.94	2.64
CLVTH16244AQDLREP	296-22126-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1680.00/1,000		
CLVTH16245AIDGVREP	296-22127-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TVSOP	3.47	2.68	2.43
CLVTH16245AIDGVREP	296-22127-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TVSOP	2673.00/2,000		
CLVTH16245AIZQLREP	296-22129-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-VFBGA	4.05	3.31	2.97
CLVTH16245AIZQLREP	296-22129-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-VFBGA	1890.00/1,000		
CLVTH16245AMDLREP	296-22130-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	6.72	5.49	4.93
CLVTH16245AMDLREP	296-22130-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	3136.00/1,000		
CLVTH16245AQDGGREP	296-18098-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3.60	2.94	2.64
CLVTH16245AQDGGREP	296-18098-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3192.00/2,000		
CLVTH16245AQDLREP	296-22131-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	3.60	2.94	2.64
CLVTH16245AQDLREP	296-22131-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	1680.00/1,000		
CLVTH16373IDGGREP	296-22132-1-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-TSSOP	3.15	2.43	2.21
CLVTH16373IDGGREP	296-22132-2-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-TSSOP	2430.00/2,000		
CLVTH16373IDLREP	296-22133-1-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-SSOP	3.15	2.43	2.21
CLVTH16373IDLREP	296-22133-2-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-SSOP	1305.00/1,000		
CLVTH16373IZQLREP	296-22135-1-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	56-VFBGA	4.05	3.31	2.97
CLVTH16373IZQLREP	296-22135-2-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	56-VFBGA	1890.00/1,000		
CLVTH16374IDGGREP	296-22136-1-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	4.05	3.31	2.97
CLVTH16374IDGGREP	296-22136-2-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	3591.00/2,000		
CLVTH16374IDLREP	296-19494-1-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	3.15	2.43	2.21
CLVTH16374IDLREP	296-19494-2-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1305.00/1,000		
CLVTH16500IDGGREP	296-22137-1-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	4.05	3.31	2.97
CLVTH16500IDGGREP	296-22137-2-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	3591.00/2,000		
CLVTH16501IDGGREP	296-22138-1-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	4.38	3.58	3.22
CLVTH16501IDGGREP	296-22138-2-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	3883.60/2,000		
CLVTH16543IDGGREP	296-22139-1-ND	Tri-St. 3.3V ABT 16-Bit Registered Xcvr.	56-TSSOP	3.69	3.02	2.71
CLVTH16543IDGGREP	296-22139-2-ND	Tri-St. 3.3V ABT 16-Bit Registered Xcvr.	56-TSSOP	3271.80/2,000		
CLVTH16543MDLREP	296-20635-1-ND	Tri-St.3.3V ABT 16-Bit Registered Xcvr.	56-SSOP	8.19	6.80	6.18
CLVTH16543MDLREP	296-20635-2-ND	Tri-St. 3.3V ABT 16-Bit Registered Xcvr.	56-SSOP	4171.50/1,000		
CLVTH16646IDGGREP	296-22140-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-TSSOP	4.71	3.85	3.46
CLVTH16646IDGGREP	296-22140-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	56-TSSOP	4176.20/2,000		
CLVTH16652IDGGREP	296-22141-1-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver/Register	56-TSSOP	7.08	5.79	5.20
CLVTH16652IDGGREP	296-22141-2-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver/Register	56-TSSOP	6277.60/2,000		
CLVTH16835IDGGREP	296-22142-1-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Dvr.	56-TSSOP	6.87	5.62	5.04
CLVTH16835IDGGREP	296-22142-2-ND	Tri-St. 3.3V ABT 18-Bit Univ. Bus Dvr.	56-TSSOP	6091.40/2,000		
CLVTH32244IGKEREP	296-22144-1-ND	Tri-State 3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	7.34	6.10	5.54
CLVTH32244IGKEREP	296-22144-2-ND	Tri-State 3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	3739.50/1,000		
CLVTH32373IGKEREP	296-22145-1-ND	Tri-State 3.3V ABT 32-Bit Transparent D-Type Latch	96-LFBGA	7.34	6.10	5.54
CLVTH32373IGKEREP	296-22145-2-ND	Tri-State 3.3V ABT 32-Bit Transparent D-Type Latch	96-LFBGA	3739.50/1,000		
CLVTH32374IGKEREP	296-22146-1-ND	Tri-State 3.3V ABT 32-Bit Edge-Triggered D-Type F/F	96-LFBGA	7.34	6.10	5.54
CLVTH32374IGKEREP	296-22146-2-ND	Tri-State 3.3V ABT 32-Bit Edge-Triggered D-Type F/F	96-LFBGA	3739.50/1,000		
CLVTH162240IDGGREP	296-22116-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3.15	2.43	2.21
CLVTH162240IDGGREP	296-22116-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2430.00/2,000		
CLVTH162244IDGGREP	296-22117-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3.15	2.43	2.21
CLVTH162244IDGGREP	296-22117-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2430.00/2,000		
CLVTH162245IDGGREP	296-22118-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3.15	2.43	2.21
CLVTH162245IDGGREP	296-22118-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2430.00/2,000		
CLVTH162245MDLREP	296-22119-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	6.72	5.49	4.93
CLVTH162245MDLREP	296-22119-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver	48-SSOP	3136.00/1,000		
CLVTH162373MDLREP	296-22120-1-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-SSOP	6.72	5.49	4.93
CLVTH162373MDLREP	296-22120-2-ND	Tri-State 3.3V ABT 16-Bit Transparent D-Type Latch	48-SSOP	3136.00/1,000		
SN74LVTH125D	296-1708-5-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.67	.53	.46
SN74LVTH125DR	296-1708-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.77	.54	.47
SN74LVTH125DR	296-1708-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	542.50/2,500		
SN74LVTH125DBR	296-8658-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.68	.53	.47
SN74LVTH125DBR	296-8658-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	446.00/2,000		
SN74LVTH125DGVR	296-8659-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.77	.54	.47
SN74LVTH125DGVR	296-8659-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	434.00/2,000		
SN74LVTH125IPWREP	296-22386-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	1.18	.93	.84
SN74LVTH125IPWREP	296-22386-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	868.00/2,000		
SN74LVTH125PW	296-26640-5-ND	Tri-St. ABT Quad Bus Buffer* ***NEW!***	14-TSSOP	.67	.53	.46
SN74LVTH125PWR	296-8660-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.77	.54	.47
SN74LVTH125PWR	296-8660-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	434.00/2,000		
SN74LVTH125RGYR	296-13984-1-ND	Tri-State ABT Quad Bus Buffer	14-QFN	.68	.53	.47
SN74LVTH125RGYR	296-13984-2-ND	Tri-State ABT Quad Bus Buffer	14-QFN	669.00/3,000		
SN74LVTH126DBR	296-8661-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.68	.53	.47
SN74LVTH126DBR	296-8661-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	446.00/2,000		
SN74LVTH126DGVR	296-8662-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.77	.54	.47
SN74LVTH126DGVR	296-8662-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	434.00/2,000		
SN74LVTH126DR	296-8663-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.77	.54	.47
SN74LVTH126DR	296-8663-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	542.50/2,500		
SN74LVTH126PW	296-26641-5-ND	Tri-St. ABT Quad Bus Buffer* ***NEW!***	14-TSSOP	.67	.53	.46
SN74LVTH126PWR	296-8664-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.77	.54	.47
SN74LVTH126PWR	296-8664-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	434.00/2,000		
SN74LVTH240DBR	296-8706-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.10	.87	.79
SN74LVTH240DBR	296-8706-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	812.00/2,000		
SN74LVTH240DWR	296-8707-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.00	.80	.72
SN74LVTH240DWR	296-8707-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	740.00/2,000		
SN74LVTH240GQNR	296-12106-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	1.50	1.19	1.07
SN74LVTH240GQNR	296-12106-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	594.00/1,000		
SN74LVTH240IPWREP	296-22387-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.89	1.46	1.33
SN74LVTH240IPWREP	296-22387-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1458.00/2,000		
SN74LVTH240PWR	296-8708-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.00	.80	.72
SN74LVTH240PWR	296-8708-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	740.00/2,000		
SN74LVTH241DBR	296-12742-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.06	.83	.73
SN74LVTH241DBR	296-12742-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	702.00/2,000		
SN74LVTH241DW	296-1715-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.92	.74	.65
SN74LVTH241IPWREP	296-22388-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.89	1.46	1.33
SN74LVTH241IPWREP	296-22388-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1458.00/2,000		
SN74LVTH241PWR	296-8709-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.97	.75	.66
SN74LVTH241PWR	296-8709-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH244ADBR	296-1269-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.88	.68	.60
SN74LVTH244ADBR	296-1269-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	580.00/2,000		
SN74LVTH244ADW	296-1270-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.92	.74	.65
SN74LVTH244ADWR	296-1270-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.97	.75	.66
SN74LVTH244ADWR	296-1270-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LVTH244AGQNR	296-12107-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	1.25	.99	.90
SN74LVTH244AGQNR	296-12107-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	495.00/1,000		
SN74LVTH244APWR	296-1271-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.97	.75	.66
SN74LVTH244APWR	296-1271-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH244AQDBREP	296-22389-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	2.10	1.62	1.47
SN74LVTH244AQDBREP	296-22389-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1620.00/2,000		
SN74LVTH244AQPWREP	296-18128-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	2.10	1.62	1.47
SN74LVTH244AQPWREP	296-18128-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1620.00/2,000		
SN74LVTH244ARGYR	296-13986-1-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	1.06	.83	.73
SN74LVTH244ARGYR	296-13986-2-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	1053.00/3,000		
SN74LVTH245ADBR	296-8710-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	1.06	.83	.73
SN74LVTH245ADBR	296-8710-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	702.00/2,000		
SN74LVTH245ADW	296-8711-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.92	.74	.65
SN74LVTH245ADWR	296-8711-1-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.97	.75	.66
SN74LVTH245ADWR	296-8711-2-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74LVTH245AGQNR	296-12108-1-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	1.25	.99	.90
SN74LVTH245AGQNR	296-12108-2-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	495.00/1,000		
SN74LVTH245AIPWREP	296-22390-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	1.71	1.35	1.22
SN74LVTH245AIPWREP	296-22390-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	1260.00/2,000		
SN74LVTH245AMDBREP	296-22391-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	3.36	2.75	2.47
SN74LVTH245AMDBREP	296-22391-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	2979.20/2,000		
SN74LVTH245APWR	296-1272-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.97	.75	.66
SN74LVTH245APWR	296-1272-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	638.00/2,000		
SN74LVTH273DW	296-8713-5-ND	ABT Octal D-Type Flip-Flop with Clear* ***NEW!***	20-SOIC	.92	.74	.65
SN74LVTH273DWR	296-14934-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	.97	.75	.66
SN74LVTH273DWR	296-14934-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	638.00/2,000		
SN74LVTH273IPWREP	296-22392-1-ND	ABT Octal D-Type F/F with Clear	20-TSSOP	1.71	1.35	1.22
SN74LVTH273IPWREP	296-22392-2-ND	ABT Octal D-Type F/F with Clear	20-TSSOP	1260.00/2,000		
SN74LVTH273MNSREP	296-22393-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOP	3.36	2.75	2.47
SN74LVTH273MNSREP	296-22393-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOP	2979.20/2,000		
SN74LVTH273PWR	296-1273-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	.97	.75	.66
SN74LVTH273PWR	296-1273-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	638.00/2,000		
SN74LVTH373DBR	296-8718-1-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	.88	.68	.60
SN74LVTH373DBR	296-8718-2-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	580.00/2,000		
SN74LVTH373DW	296-8719-5-ND	Tri-State ABT Octal D-Type Latch	20-SOIC	.96	.75	.65
SN74LVTH373IPWREP	296-22394-1-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	1.71	1.35	1.22
SN74LVTH373IPWREP	296-22394-2-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	1260.00/2,000		
SN74LVTH373PW	296-26644-5-ND	Tri-State ABT Octal D-Type Latch* ***NEW!***	20-TSSOP	.96	.75	.65

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVTH373PWR	296-8720-1-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	.88	.68	.60
SN74LVTH373PWR	296-8720-2-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	580.00/2,000		
SN74LVTH374DBR	296-8721-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	1.06	.83	.73
SN74LVTH374DBR	296-8721-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	702.00/2,000		
SN74LVTH374DW	296-8722-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.92	.74	.65
SN74LVTH374DWR	296-8722-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.97	.75	.66
SN74LVTH374DWR	296-8722-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	638.00/2,000		
SN74LVTH374IPWREP	296-22395-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	1.71	1.35	1.22
SN74LVTH374IPWREP	296-22395-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	1260.00/2,000		
SN74LVTH374PWR	296-8723-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.97	.75	.66
SN74LVTH540DBR	296-8724-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.79	1.41	1.27
SN74LVTH540DBR	296-8724-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1316.00/2,000		
SN74LVTH540DW	296-8725-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.65	1.32	1.16
SN74LVTH540PWR	296-8726-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.79	1.41	1.27
SN74LVTH540PWR	296-8726-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1316.00/2,000		
SN74LVTH541DBR	296-8727-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	2.10	1.62	1.47
SN74LVTH541DBR	296-8727-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1620.00/2,000		
SN74LVTH541DW	296-8728-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	2.02	1.63	1.47
SN74LVTH541PWR	296-8729-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.93	1.49	1.35
SN74LVTH541PWR	296-8729-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1486.00/2,000		
SN74LVTH543DGVR	296-8731-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TVSOP	1.75	1.35	1.23
SN74LVTH543DW	296-1717-5-ND	Tri-St. ABT Octal Transceiver/Register	24-SOIC	1.86	1.50	1.35
SN74LVTH543IPWREP	296-22396-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	3.03	2.48	2.23
SN74LVTH543IPWREP	296-22396-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	2686.60/2,000		
SN74LVTH543PWR	296-8732-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	1.75	1.35	1.23
SN74LVTH543PWR	296-8732-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	1350.00/2,000		
SN74LVTH573DW	296-1718-5-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	1.02	.82	.72
SN74LVTH573DWR	296-14935-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	1.06	.83	.73
SN74LVTH573DWR	296-14935-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	702.00/2,000		
SN74LVTH573IPWREP	296-22397-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	1.71	1.35	1.22
SN74LVTH573IPWREP	296-22397-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	1260.00/2,000		
SN74LVTH573NSR	296-13300-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOP	1.01	.80	.72
SN74LVTH573NSR	296-13300-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOP	744.00/2,000		
SN74LVTH573PW	296-26645-5-ND	Tri-State, ABT Octal Transparent D-Type Latch* ***NEW!***	20-TSSOP	1.02	.82	.72
SN74LVTH573PWR	296-8734-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	1.06	.83	.73
SN74LVTH573PWR	296-8734-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	702.00/2,000		
SN74LVTH573RGYR	296-13988-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-VQFN	1.01	.80	.72
SN74LVTH573RGYR	296-13988-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-VQFN	1116.00/3,000		
SN74LVTH574DBR	296-8735-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	1.06	.83	.73
SN74LVTH574DBR	296-8735-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	702.00/2,000		
SN74LVTH574DW	296-1719-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.92	.74	.65
SN74LVTH574DWR	296-1719-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.97	.75	.66
SN74LVTH574DWR	296-1719-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	638.00/2,000		
SN74LVTH574IPWREP	296-22398-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	1.71	1.35	1.22
SN74LVTH574IPWREP	296-22398-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	1260.00/2,000		
SN74LVTH574PWR	296-8736-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.97	.75	.66
SN74LVTH574PWR	296-8736-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	638.00/2,000		
SN74LVTH574RGYR	296-13989-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-VQFN	1.06	.83	.73
SN74LVTH574RGYR	296-13989-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-VQFN	1053.00/3,000		
SN74LVTH646DBR	296-8737-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1.63	1.29	1.16
SN74LVTH646DBR	296-8737-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1202.00/2,000		
SN74LVTH646DW	296-1720-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	1.64	1.32	1.15
SN74LVTH646IPWREP	296-22399-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	2.77	2.14	1.94
SN74LVTH646IPWREP	296-22399-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	2133.00/2,000		
SN74LVTH646PWR	296-8738-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1.48	1.17	1.06
SN74LVTH646PWR	296-8738-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1092.00/2,000		
SN74LVTH652DBR	296-8739-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	2.98	2.30	2.09
SN74LVTH652DBR	296-8739-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	2296.00/2,000		
SN74LVTH652DGVR	296-12925-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	2.63	2.03	1.84
SN74LVTH652DGVR	296-12925-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	2025.00/2,000		
SN74LVTH652DW	296-1721-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	2.79	2.25	2.03
SN74LVTH652PWR	296-8740-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	2.63	2.03	1.84
SN74LVTH652PWR	296-8740-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	2026.00/2,000		
SN74LVTH2245DBR	296-8704-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	1.06	.83	.73
SN74LVTH2245DBR	296-8704-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	702.00/2,000		
SN74LVTH2245DGVR	296-12921-1-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP	.97	.75	.66
SN74LVTH2245DW	296-1714-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.92	.74	.65
SN74LVTH2245PWR	296-8705-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.97	.75	.66
SN74LVTH2245PWR	296-8705-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	638.00/2,000		
SN74LVTH2952DW	296-1716-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	1.71	1.38	1.24
SN74LVTH2952PWR	296-8715-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1.67	1.32	1.19
SN74LVTH2952PWR	296-8715-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1232.00/2,000		
SN74LVTH16240DGGR	296-8674-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74LVTH16240DL	296-8675-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74LVTH16241DGGR	296-8676-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74LVTH16241DGGR	296-8676-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1120.00/2,000		
SN74LVTH16241DL	296-12919-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74LVTH16244ADGGR	296-1260-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.67	1.32	1.19
SN74LVTH16244ADGGR	296-1260-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1232.00/2,000		
SN74LVTH16244ADGVR	296-8677-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	1.67	1.32	1.19
SN74LVTH16244ADGVR	296-8677-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	1232.00/2,000		
SN74LVTH16244ADL	296-1261-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.86	1.50	1.35
SN74LVTH16244ADLR	296-1261-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.84	1.46	1.31
SN74LVTH16244ADLR	296-1261-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	726.00/1,000		
SN74LVTH16244AGQLR	296-8678-1-ND	Tri-State ABT 16-Bit Buffer/Driver	56-BGA	2.45	1.89	1.72
SN74LVTH16244AGQLR	296-8678-2-ND	Tri-State ABT 16-Bit Buffer/Driver	56-BGA	1015.00/1,000		
SN74LVTH16244AZRDR	296-16896-1-ND	Tri-State ABT 16-Bit Buffer/Driver	54-FBGA	2.45	1.89	1.72
SN74LVTH16244AZRDR	296-16896-2-ND	Tri-State ABT 16-Bit Buffer/Driver	54-FBGA	1015.00/1,000		
SN74LVTH16245ADGGR	296-1262-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	1.52	1.20	1.08
SN74LVTH16245ADGGR	296-1262-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	1120.00/2,000		
SN74LVTH16245ADGVR	296-8679-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	1.52	1.20	1.08
SN74LVTH16245ADGVR	296-8679-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	1120.00/2,000		
SN74LVTH16245ADL	296-8680-5-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.71	1.38	1.24
SN74LVTH16245ADLR	296-8680-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.67	1.32	1.19
SN74LVTH16245ADLR	296-8680-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	660.00/1,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVTH16245AGQLR	296-8681-1-ND	Tri-State ABT 16-Bit Bus Transceiver	56-BGA	2.10	1.62	1.47
SN74LVTH16245AGRDR	296-16897-1-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	2.10	1.62	1.47
SN74LVTH16245AGRDR	296-16897-2-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	870.00/1,000		
SN74LVTH162541DGGR	296-8682-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	2.45	1.89	1.72
SN74LVTH162541DGGR	296-8682-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1890.00/2,000		
SN74LVTH162541DL	296-8683-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	2.95	2.38	2.14
SN74LVTH16373DGGR	296-8684-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	2.10	1.62	1.47
SN74LVTH16373DGGR	296-8684-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	1620.00/2,000		
SN74LVTH16373DL	296-8685-5-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	2.48	2.00	1.80
SN74LVTH16373GQLR	296-8686-1-ND	Tri-State ABT 16-Bit D-Type Latch	56-BGA	3.15	2.43	2.21
SN74LVTH16373GQLR	296-8686-2-ND	Tri-State ABT 16-Bit D-Type Latch	56-BGA	1305.00/1,000		
SN74LVTH16373GRDR	296-16899-1-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	3.15	2.43	2.21
SN74LVTH16373GRDR	296-16899-2-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	1305.00/1,000		
SN74LVTH16373ZRDR	296-16900-1-ND	Tri-State ABT 16-Bit D-Type Latch	103-BGA	3.15	2.43	2.21
SN74LVTH16373ZRDR	296-16900-2-ND	Tri-State ABT 16-Bit D-Type Latch	103-BGA	1305.00/1,000		
SN74LVTH16374DGGR	296-1263-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP	1.67	1.32	1.19
SN74LVTH16374DGGR	296-1263-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP	1232.00/2,000		
SN74LVTH16374DL	296-1264-5-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.86	1.50	1.35
SN74LVTH16374DLR	296-1264-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.84	1.46	1.31
SN74LVTH16374DLR	296-1264-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	726.00/1,000		
SN74LVTH16374ZRDR	296-16902-1-ND	Tri-State ABT 16-Bit D-Type F/F	103-BGA	2.45	1.89	1.72
SN74LVTH16374ZRDR	296-16902-2-ND	Tri-State ABT 16-Bit D-Type F/F	103-BGA	1015.00/1,000		
SN74LVTH16500DGGR	296-8689-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	3.15	2.58	2.31
SN74LVTH16500DGGR	296-8689-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	2794.00/2,000		
SN74LVTH16500DL	296-8690-5-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	3.78	3.04	2.77
SN74LVTH16501DLR	296-14930-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	2.98	2.30	2.09
SN74LVTH16501DLR	296-14930-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	1233.00/1,000		
SN74LVTH16541DGGR	296-8693-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	2.45	1.89	1.72
SN74LVTH16541DGGR	296-8693-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1890.00/2,000		
SN74LVTH16541DL	296-12920-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	2.95	2.38	2.14
SN74LVTH16543DGGR	296-1265-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2.28	1.76	1.60
SN74LVTH16543DGGR	296-1265-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	1756.00/2,000		
SN74LVTH16543DL	296-1710-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	2.48	2.00	1.80
SN74LVTH16543DLR	296-1710-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	2.45	1.89	1.72
SN74LVTH16543DLR	296-1710-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1015.00/1,000		
SN74LVTH16646DGGR	296-1266-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2.80	2.16	1.96
SN74LVTH16646DGGR	296-1266-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2160.00/2,000		
SN74LVTH16646DL	296-1711-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	2.80	2.25	2.05
SN74LVTH16652DGGR	296-1267-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	3.15	2.58	2.31
SN74LVTH16652DGGR	296-1267-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2794.00/2,000		
SN74LVTH16652DL	296-1712-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	2.94	2.37	2.16
SN74LVTH16952DGGR	296-1268-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	3.15	2.43	2.21
SN74LVTH16952DGGR	296-1268-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2430.00/2,000		
SN74LVTH16952DL	296-1713-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	3.22	2.59	2.36
SN74LVTH16952DLR	296-14931-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	3.33	2.57	2.33
SN74LVTH16952DLR	296-14931-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1378.00/1,000		
SN74LVTH18502APM	296-8699-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-LQFP	11.00	9.02	8.14
SN74LVTH18502APMR	296-14932-1-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-LQFP	9.67	8.03	7.30
SN74LVTH18502APMR	296-14932-2-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-LQFP	4928.00/1,000		
SN74LVTH18504APM	296-8700-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-LQFP	11.00	9.02	8.14
SN74LVTH18504APMR	296-14933-1-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-LQFP	9.67	8.03	7.30
SN74LVTH18504APMR	296-14933-2-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-LQFP	4928.00/1,000		
SN74LVTH18511DGGR	296-17079-1-ND	3.3V ABT 18-Bit Universal Bus Xcvr.	64-TSSOP	8.75	7.26	6.60
SN74LVTH18511DGGR	296-17079-2-ND	3.3V ABT 18-Bit Universal Bus Xcvr.	64-TSSOP	8580.00/2,000		
SN74LVTH18512DGGR	296-8701-1-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	8.75	7.26	6.60
SN74LVTH18512DGGR	296-8701-2-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	8580.00/2,000		
SN74LVTH18514DGGR	296-8702-1-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-TSSOP	8.75	7.26	6.60
SN74LVTH18514DGGR	296-8702-2-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-TSSOP	8580.00/2,000		
SN74LVTH18646APM	296-8703-ND	ABT Scan Test Device with 18-Bit Transceiver and Registers	64-LQFP	18.04	15.17	13.94
SN74LVTH18652APM	296-12994-5-ND	3.3V ABT Scan Test Device with 18-Bit Transceiver and Register	64-LQFP	18.04	15.17	13.94
SN74LVTH32244GKER	296-8716-1-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA	5.37	4.39	3.94
SN74LVTH32244GKER	296-8716-2-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA	2506.00/1,000		
SN74LVTH32245GKER	296-9882-1-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA	6.90	5.64	5.06
SN74LVTH32245GKER	296-9882-2-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA	3220.00/1,000		
SN74LVTH32245ZKER	296-23291-1-ND	Tri-State ABT 32-Bit Bus Transceiver	96-BGA	6.90	5.64	5.06
SN74LVTH32245ZKER	296-23291-2-ND	Tri-State ABT 32-Bit Bus Transceiver	96-BGA	3220.00/1,000		
SN74LVTH32373GKER	296-8717-1-ND	Tri-State ABT 32-Bit D-Type Latch	96-BGA	5.10	4.17	3.74
SN74LVTH32373GKER	296-8717-2-ND	Tri-State ABT 32-Bit D-Type Latch	96-BGA	2380.00/1,000		
SN74LVTH32373ZKER	296-25442-1-ND	Tri-State 32-Bit D-Type Latch* ***NEW!***	96-BGA	3.30	2.70	2.42
SN74LVTH32373ZKER	296-25442-2-ND	Tri-State 32-Bit D-Type Latch* ***NEW!***	96-BGA	1540.00/1,000		
SN74LVTH32374GKER	296-9883-1-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	5.10	4.17	3.74
SN74LVTH32374GKER	296-9883-2-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2380.00/1,000		
SN74LVTH162240DGGR	296-8665-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74LVTH162240DGGR	296-8665-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1120.00/2,000		
SN74LVTH162240DL	296-8666-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74LVTH162241DGGR	296-8667-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.52	1.20	1.08
SN74LVTH162241DGGR	296-8667-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1120.00/2,000		
SN74LVTH162241DL	296-12917-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.71	1.38	1.24
SN74LVTH162244DGGR	296-1258-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.67	1.32	1.19
SN74LVTH162244DGGR	296-1258-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1232.00/2,000		
SN74LVTH162244DL	296-1259-5-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.86	1.50	1.35
SN74LVTH162244DLR	296-1259-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.84	1.46	1.31
SN74LVTH162244DLR	296-1259-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	726.00/1,000		
SN74LVTH162245DGGR	296-8669-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	1.52	1.20	1.08
SN74LVTH162245DGGR	296-8669-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	1120.00/2,000		
SN74LVTH162245DL	296-8670-5-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	1.68	1.35	1.18
SN74LVTH162245DLR	296-8670-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	1.52	1.20	1.08
SN74LVTH162245DLR	296-8670-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	600.00/1,000		
SN74LVTH162245KR	296-13297-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	56-BGA	2.80	2.16	1.96
SN74LVTH162245KR	296-13297-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	56-BGA	1160.00/1,000		
SN74LVTH162373DGGR	296-8671-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1.67	1.32	1.19
SN74LVTH162373DGGR	296-8671-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1232.00/2,000		
SN74LVTH162373DL	296-12918-5-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-SSOP	1.86	1.50	1.35
SN74LVTH162373KR	296-12665-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-BGA	2.45	1.89	1.72
SN74LVTH162373KR	296-12665-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-BGA	1015.00/1,000		
SN74LVTH162374DGGR	296-8672-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.67	1.32	1.19

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH162374DGGR	296-8672-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1232.00/2,000		
SN74LVTH162374DLR	296-14929-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.84	1.46	1.31
SN74LVTH162374DLR	296-14929-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	726.00/1,000		
SN74LVTH162374KR	296-13298-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	2.45	1.89	1.72
SN74LVTH162374KR	296-13298-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-BGA	1015.00/1,000		
SN74LVTH182502APM	296-8696-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-LQFP	11.00	9.02	8.14
SN74LVTH182504APM	296-8697-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-LQFP	8.25	6.77	6.11
SN74LVTH182512DGGR	296-8698-1-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	8.75	7.26	6.60
SN74LVTH182512DGGR	296-8698-2-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	8580.00/2,000		
SN74LVTH182652APM	296-14323-ND	3.3V ABT Scan Test Device	64-LQFP	18.04	15.17	13.94
SN74LVTH322374KR	296-13299-1-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	5.10	4.17	3.74
SN74LVTH322374KR	296-13299-2-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	2380.00/1,000		
LVTZ Family						
SN74LVTZ244DBR	296-12927-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.97	.75	.66
SN74LVTZ244DBR	296-12927-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	638.00/2,000		
SN74LVTZ244DW	296-11806-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.96	.75	.65
SN74LVTZ244PWR	296-12928-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.88	.68	.60
SN74LVTZ244PWR	296-12928-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	580.00/2,000		
LVU Family						
SN74LVU04AD	296-1722-5-ND	Unbuffered Hex Inverter	14-SOIC	.72	.56	.49
SN74LVU04ADBR	296-9884-1-ND	Unbuffered Hex Inverter	14-SSOP	.73	.57	.50
SN74LVU04ADBR	296-9884-2-ND	Unbuffered Hex Inverter	14-SSOP	478.00/2,000		
SN74LVU04ADGVR	296-12929-1-ND	Unbuffered Hex Inverter	14-TVSOP	.66	.51	.45
SN74LVU04ADGVR	296-12929-2-ND	Unbuffered Hex Inverter	14-TVSOP	435.00/2,000		
SN74LVU04APWR	296-9885-1-ND	Unbuffered Hex Inverter	14-TSSOP	.66	.51	.45
SN74LVU04APWR	296-9885-2-ND	Unbuffered Hex Inverter	14-TSSOP	436.00/2,000		
SN74LVU04ARGYR	296-13990-1-ND	Unbuffered Hex Inverter	14-QFN	.73	.57	.50
SN74LVU04ARGYR	296-13990-2-ND	Unbuffered Hex Inverter	14-QFN	717.00/3,000		
74S Family						
SN74S00N	296-1723-5-ND	Quad 2-Input NAND Gate	14-Dip	2.51	2.03	1.83
SN74S04N	296-1724-5-ND	Hex Inverter	14-Dip	1.19	.96	.84
SN74S08N	296-1725-5-ND	Quad 2-Input Positive AND Gate	14-Dip	1.46	1.18	1.03
SN74S10N	296-14937-5-ND	Triple 3-Input Positive NAND Gate	14-Dip	1.44	1.15	1.01
SN74S32N	296-1731-5-ND	Quad 2-Input Positive OR Gate	14-Dip	1.12	.90	.79
SN74S37NSR	296-13301-1-ND	Quad 2-Input Positive NAND Buffer	14-SOP	2.80	2.16	1.96
SN74S37NSR	296-13301-2-ND	Quad 2-Input Positive NAND Buffer	14-SOP	2160.00/2,000		
SN74S38D	296-1732-5-ND	Quad 2-Input NAND with OC	14-SOIC	2.17	1.75	1.58
SN74S38DR	296-14939-1-ND	Quad 2-Input NAND with OC	14-SOIC	2.10	1.62	1.47
SN74S38DR	296-14939-2-ND	Quad 2-Input NAND with OC	14-SOIC	2025.00/2,500		
SN74S38N	296-1733-5-ND	Quad 2-Input NAND with OC	14-Dip	2.02	1.63	1.47
SN74S74N	296-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	1.69	1.36	1.19
SN74S138AN	296-1728-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	2.02	1.63	1.47
SN74S240N	296-1729-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	3.78	3.04	2.77
SN74S244N	296-1730-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	3.78	3.04	2.77
SN74S280N	296-14938-5-ND	9-Bit Odd/Even Parity Generator/Checker	14-Dip	6.28	5.15	4.65
SN74S1051DR	296-14193-1-ND	12-Bit, Schottky Termination Array	16-SOIC	3.15	2.58	2.31
SN74S1051DR	296-14193-2-ND	12-Bit, Schottky Termination Array	16-SOIC	3492.50/2,500		
SN74S1053DW	296-1726-5-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	3.50	2.82	2.57
SN74S1053DWR	296-14936-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	3.15	2.58	2.31
SN74S1053DWR	296-14936-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2794.00/2,000		
SN74S1053PWR	296-13703-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	3.15	2.58	2.31
SN74S1053PWR	296-13703-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	2794.00/2,000		
SN74S1053N	296-1727-5-ND	16-Bit Termination Array	20-Dip	3.22	2.59	2.36
SN74SSQE32882ZALR	296-23350-1-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver	176-BGA	13.57	11.51	10.62
SN74SSQE32882ZALR	296-23350-2-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver	176-BGA	7847.00/1,000		
SN74SSQE32882ZCJR	296-23901-1-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver	176-BGA	13.57	11.51	10.62
SN74SSQE32882ZCJR	296-23901-2-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver	176-BGA	7847.00/1,000		
SN74SSQEA32882ZALR	296-24877-1-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver* ***NEW!***	176-BGA	14.26	12.09	11.16
SN74SSQEA32882ZALR	296-24877-2-ND	28-Bit to 56-Bit Registered Buffer/Clock Driver* ***NEW!***	176-BGA	8246.00/1,000		
SN74SSTEB32866ZWLR	296-24513-1-ND	25-Bit Configurable Registered Buffer* ***NEW!***	96-BGA	10.02	8.32	7.56
SN74SSTEB32866ZWLR	296-24513-2-ND	25-Bit Configurable Registered Buffer* ***NEW!***	96-BGA	5103.00/1,000		
SSTL Family						
SN74SSTL16837ADGGR	296-9886-1-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	9.94	8.25	7.50
SN74SSTL16837ADGGR	296-9886-2-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	9750.00/2,000		
SN74SSTL16847DGGR	296-1274-1-ND	20-Bit SSTL_3 Buffer	64-TSSOP	9.94	8.25	7.50
SN74SSTL16847DGGR	296-1274-2-ND	20-Bit SSTL_3 Buffer	64-TSSOP	9750.00/2,000		
SSTU Family						
74SSTUB32864AZKER	296-21295-1-ND	25-Bit Configurable Registered Buffer	96-BGA	9.12	7.57	6.88
74SSTUB32864AZKER	296-21295-2-ND	25-Bit Configurable Registered Buffer	96-BGA	4644.00/1,000		
74SSTUB32865AZJBR	296-24689-1-ND	28-Bit to 56-Bit Registered Buffer ***NEW!***	160-NFBGA	12.74	10.81	9.98
74SSTUB32865AZJBR	296-24689-2-ND	28-Bit to 56-Bit Registered Buffer ***NEW!***	160-NFBGA	7368.00/1,000		
74SSTUB32865ZJBR	296-23870-1-ND	28-Bit to 56-Bit Registered Buffer	160-TFBGA	12.74	10.81	9.98
74SSTUB32865ZJBR	296-23870-2-ND	28-Bit to 56-Bit Registered Buffer	160-TFBGA	7368.00/1,000		
74SSTUB32866AZKER	296-21296-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	9.12	7.57	6.88
74SSTUB32866AZKER	296-21296-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	4644.00/1,000		
74SSTUB32868AZRHR	296-22020-1-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	12.74	10.81	9.98
74SSTUB32868AZRHR	296-22020-2-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	7368.00/1,000		
74SSTUB32868ZRHR	296-22074-1-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	12.74	10.81	9.98
74SSTUB32868ZRHR	296-22074-2-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	7368.00/1,000		
SN74SSTU32864CZKER	296-17801-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	12.74	10.81	9.98
SN74SSTU32864CZKER	296-17801-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	7368.00/1,000		
SN74SSTU32864DGKER	296-17964-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	12.74	10.81	9.98
SN74SSTU32864DGKER	296-17964-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	7368.00/1,000		
SN74SSTU32864DZKER	296-17860-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	12.74	10.81	9.98
SN74SSTU32864DZKER	296-17860-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	7368.00/1,000		
SN74SSTU32864EZKER	296-18298-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	12.74	10.81	9.98
SN74SSTU32864EZKER	296-18298-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	7368.00/1,000		
SN74SSTU32864GKER	296-15611-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	12.74	10.81	9.98
SN74SSTU32864GKER	296-15611-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	7368.00/1,000		
SN74SSTU32864ZKER	296-17793-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	12.74	10.81	9.98
SN74SSTU32864ZKER	296-17793-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-BGA	7368.00/1,000		
SN74SSTU32866AZKER	296-18233-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	14.79	12.54	11.58
SN74SSTU32866AZKER	296-18233-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	8552.00/1,000		
SN74SSTU32866GKER	296-18826-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	14.79	12.54	11.58
SN74SSTU32866GKER	296-18826-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	8552.00/1,000		
SN74SSTU32866ZKER	296-18827-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	14.79	12.54	11.58
SN74SSTU32866ZKER	296-18827-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	8552.00/1,000		
SN74SSTUB32864ZKER	296-21315-1-ND	25-Bit Configurable Registered Buffer	96-BGA	9.12	7.57	6.88
SN74SSTUB32864ZKER	296-21315-2-ND	25-Bit Configurable Registered Buffer	96-BGA	4644.00/1,000		
SN74SSTUB32866ZKER	296-21316-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	9.12	7.57	6.88
SN74SSTUB32866ZKER	296-21316-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	4644.00/1,000		
SN74SSTUB32866ZWLR	296-22579-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	9.12	7.57	6.88
SN74SSTUB32866ZWLR	296-22579-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-BGA	4644.00/1,000		
SSTV Family						
74SSTVF32852ZKFR	296-18355-1-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-BGA	13.23	11.22	10.35
74SSTVF32852ZKFR	296-18355-2-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-BGA	7648.00/1,000		
CSSTV32852GKFREP	296-23465-1-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	11.66	9.68	8.80
CSSTV32852GKFREP	296-23465-2-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	5940.00/1,000		
CSSTV32867SGKEREP	296-22147-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	17.73	15.04	13.88
CSSTV32867SGKEREP	296-22147-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	10254.30/1,000		
SN74SSTV16857DGGR	296-13302-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	5.28	4.32	3.88
SN74SSTV16857DGGR	296-13302-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	4682.00/2,000		
SN74SSTV16857DGVR	296-12039-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	5.28	4.32	3.88
SN74SSTV16857DGVR	296-12039-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	4682.00/2,000		
SN74SSTV16859DGGR	296-13303-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	6.93	5.66	5.09
SN74SSTV16859DGGR	296-13303-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	6144.00/2,000		
SN74SSTV16859RGQ8	296-18828-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6.93	5.66	5.09
SN74SSTV16859RGQ8	296-18828-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6144.00/2,000		
SN74SSTV32852GKFR	296-13304-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	12.24	10.17	9.24
SN74SSTV32852GKFR	296-13304-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	6237.00/1,000		
SN74SSTV32852ZKFR	296-18829-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-BGA	12.24	10.17	9.24
SN74SSTV32852ZKFR	296-18829-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-BGA	6237.00/1,000		
SN74SSTV32867GKER	296-13305-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	16.61	14.08	13.00
SN74SSTV32867GKER	296-13305-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	9603.00/1,000		
SN74SSTV32877GKER	296-13306-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	16.61	14.08	13.00
SN74SSTV32877GKER	296-13306-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	9603.00/1,000		
SN74SSTVF16857GR	296-13636-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	5.28	4.32	3.88
SN74SSTVF16857GR	296-13636-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	4682.00/2,000		
SN74SSTVF16857VR	296-13637-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	5.28	4.32	3.88
SN74SSTVF16857VR	296-13637-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	4682.00/2,000		
SN74SSTVF16859G4R	296-18719-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6.93	5.66	5.09
SN74SSTVF16859G4R	296-18719-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6144.00/2,000		
SN74SSTVF16859GR	296-18830-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	6.93	5.66	5.09

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

DIGITAL LOGIC (Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74SSTVF16859GR	296-18830-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	6144.00/2,000		
SN74SSTVF16859S8	296-18831-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6.93	5.66	5.09
SN74SSTVF16859S8	296-18831-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6144.00/2,000		
SN74SSTVF16859SR	296-18832-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6.93	5.66	5.09
SN74SSTVF16859SR	296-18832-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-VQFN	6144.00/2,000		
SN74SSTVF32852KR	296-15612-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	13.23	11.22	10.35
SN74SSTVF32852KR	296-15612-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	7648.00/1,000		
Translating Bus Switches						
TXB0108PWR	296-21527-1-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	2.80	2.16	1.96
TXB0108PWR	296-21527-2-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	2160.00/2,000		
TTL Family						
SN10KHT5541DW	296-9688-5-ND	Tri-State ECL to TTL Translator	24-SOIC	11.44	9.62	8.84
SN10KHT5541NT	296-9689-5-ND	Tri-State ECL to TTL Translator	24-Dip	12.25	10.05	9.07
SN7400N	296-14641-5-ND	Quad 2-Input NAND Gate	14-Dip	1.50	1.21	1.06
SN7404N	296-14642-5-ND	Hex Inverter	14-Dip	1.86	1.50	1.35
SN7406D	296-1017-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.92	.74	.65
SN7406DR	296-1017-1-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.97	.75	.66
SN7406DR	296-1017-2-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	797.50/2,500		
SN7406N	296-1435-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-Dip	.97	.76	.66
SN7407D	296-1018-5-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.92	.74	.65
SN7407DR	296-1018-1-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.97	.75	.66
SN7407DR	296-1018-2-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	797.50/2,500		
SN7407N	296-1436-5-ND	Hex Buffer/Driver with OC HV Output	14-Dip	.97	.76	.66
SN7414NSR	296-13127-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	2.45	1.89	1.72
SN7414NSR	296-13127-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	1890.00/2,000		
SN7416N	296-14646-5-ND	Hex Inverter with OC HV Output	14-Dip	1.71	1.38	1.24
SN7417N	296-14647-5-ND	Hex Buffer with OC HV Output	14-Dip	1.71	1.38	1.24
SN7438N	296-14648-5-ND	Quad 2-Input NAND Buffer	14-Dip	1.66	1.33	1.16
SN74121N	296-26367-5-ND	Monostable Multivibrator with Schmitt-Trigger Input* ***NEW!***	14-Dip	3.50	2.82	2.57
SN74128NSR	296-13126-1-ND	2-Input NOR Line Driver	14-SOP	3.15	2.43	2.21
SN74128NSR	296-13126-2-ND	2-Input NOR Line Driver	14-SOP	2430.00/2,000		
SN74150N	296-26368-5-ND	16-Line to 1-Line Data Selector/ Mux.* ***NEW!***	24-Dip	3.92	3.15	2.87
SN74154N	296-8757-5-ND	4-Line to 16-Line Decoder/Demux	24-Dip	3.50	2.82	2.57
TVC Family						
SN74TVC3010DWR	296-23293-1-ND	10-Bit Voltage Clamp	24-SOIC	2.28	1.76	1.60
SN74TVC3010DWR	296-23293-2-ND	10-Bit Voltage Clamp	24-SOIC	1756.00/2,000		
VMEH Family						
CVMEH22501AIDGGREP	296-22148-1-ND	Tri-State 8-Bit Universal Bus Transcvr/ Two 1-Bit Bus Transceivers	48-TSSOP	6.84	5.68	5.16
CVMEH22501AIDGGREP	296-22148-2-ND	Tri-State 8-Bit Universal Bus Transcvr/ Two 1-Bit Bus Transceivers	48-TSSOP	6708.00/2,000		
CVMEH22501AIDGVREP	296-21330-1-ND	Tri-State 8-Bit Universal Bus Transcvr	48-TVSOP	6.84	5.68	5.16
CVMEH22501AIDGVREP	296-21330-2-ND	Tri-State 8-Bit Universal Bus Transcvr	48-TVSOP	6708.00/2,000		
SN74VMEH22501ADGGR	296-17565-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	6.90	5.64	5.06
SN74VMEH22501ADGGR	296-17565-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	6118.00/2,000		
SN74VMEH22501ADGVR	296-17566-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	6.90	5.64	5.06
SN74VMEH22501ADGVR	296-17566-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	6118.00/2,000		
SN74VMEH22501AGQLR	296-17567-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	6.76	5.61	5.10
SN74VMEH22501AGQLR	296-17567-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	3442.50/1,000		
SN74VMEH22501AZQLR	296-23294-1-ND	Tri-State 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	6.76	5.61	5.10
SN74VMEH22501AZQLR	296-23294-2-ND	Tri-State 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	3442.50/1,000		
SN74VMEH22501DGGR	296-13309-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	6.30	5.15	4.62
SN74VMEH22501DGGR	296-13309-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	5586.00/2,000		
SN74VMEH22501DGVR	296-13310-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	6.30	5.15	4.62
SN74VMEH22501DGVR	296-13310-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	5586.00/2,000		
SN74VMEH22501GQLR	296-13311-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	8.22	6.82	6.20
SN74VMEH22501GQLR	296-13311-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	4185.00/1,000		
SN74VMEH22501ZQLR	296-23112-1-ND	Tri-St., 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	8.22	6.82	6.20
SN74VMEH22501ZQLR	296-23112-2-ND	Tri-St., 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-BGA	4185.00/1,000		

DIGITAL RADIO

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DIT4096IPW	DIT4096IPW-ND	5V, 96kHz Digital Audio Transmitter	28-TSSOP	5.04	4.05	3.69
DIT4192IPW	DIT4192IPW-ND	5V, 192kHz Digital Audio Transmitter	28-TSSOP	6.58	5.29	4.82
GC2011A-PB	296-12259-ND	Digital Filter	160-BGA	184.15	168.91	165.10
GC2011A-PQ	296-12260-ND	Digital Filter	160-QFP	576.05	544.05	533.38
GC4016-PB	296-12264-ND	Multi-Standard Quad DDC Chip	160-PBGA	69.30	61.95	58.80
GC4016-PBZ	296-18597-ND	Multi-Standard Quad DDC Chip	160-PBGA	69.30	61.95	58.80
GC4116-PB	296-12266-ND	Digital Quad Upconverter	160-PBGA	99.20	88.35	83.70
GC4116-PBZ	296-20847-ND	Multi-Standard Quad DUC Chip	160-BGA	99.20	88.35	83.70
GC5016-PB	296-15780-ND	Wideband, Quad Digital Down/Up Converter	252-BGA	52.28	46.13	43.82
GC5016-PBZ	296-17306-ND	Wideband, Quad Digital Down/Up Converter	252-BGA	52.28	46.13	43.82
GC5018IZDL	296-19311-ND	8-Channel Wideband Receiver	305-BGA	103.20	91.92	87.08

FANOUT BUFFERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CDC3RL02YFPR	296-25452-1-ND	2-Channel 1:2 Fanout Buffer* ***NEW!***	8-DSBGA	3.15	2.43	2.21
CDC3RL02YFPR	296-25452-2-ND	2-Channel 1:2 Fanout Buffer* ***NEW!***	8-DSBGA	3645.00/3,000		
SN65EL11D	296-24023-5-ND	5V PECL/ECL Diff. 1:2 Fanout Buffer	8-SOIC	3.42	2.75	2.51
SN65EL11DGK	296-24083-5-ND	5V PECL/ECL Diff. 1:2 Fanout Buffer	8-MSOP	3.42	2.75	2.51
SN65EL11DR	296-23980-1-ND	5V PECL/ECL Diff. 1:2 Fanout Buffer	8-SOIC	3.03	2.48	2.23
SN65EL11DR	296-23980-2-ND	5V PECL/ECL Diff. 1:2 Fanout Buffer	8-SOIC	3357.50/2,500		
SN65LVEL11D	296-24025-5-ND	3.3V ECL Differential 1:2 Fanout Buffer	8-SOIC	3.42	2.75	2.51
SN65LVEL11DGK	296-24113-5-ND	3.3V ECL Differential 1:2 Fanout Buffer	8-MSOP	3.42	2.75	2.51
SN65LVEL11DR	296-23982-1-ND	3.3V ECL Differential 1:2 Fanout Buffer	8-SOIC	3.03	2.48	2.23
SN65LVEL11DR	296-23982-2-ND	3.3V ECL Differential 1:2 Fanout Buffer	8-SOIC	3357.50/2,500		
SN65LVEP11D	296-24026-5-ND	2.5V/3.3V PECL/ECL 1:2 Fanout Buffer	8-SOIC	5.18	4.17	3.80
SN65LVEP11DGK	296-24089-5-ND	2.5V/3.3V PECL/ECL 1:2 Fanout Buffer	8-MSOP	5.18	4.17	3.80
SN65LVEP11DR	296-23983-1-ND	2.5V/3.3V PECL/ECL 1:2 Fanout Buffer	8-SOIC	4.53	3.70	3.33
SN65LVEP11DR	296-23983-2-ND	2.5V/3.3V PECL/ECL 1:2 Fanout Buffer	8-SOIC	5020.00/2,500		

FIFO MEMORY

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ABT3612-15PCB	296-3984-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	23.00	19.55	18.12
SN74ABT3612-15PQ	296-3985-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	23.00	19.55	18.12
SN74ABT3612-20PCB	296-3986-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	19.76	16.62	15.27
SN74ABT3612-20PQ	296-3987-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	19.76	16.62	15.27
SN74ABT3612-30PCB	296-3988-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	20.77	17.47	16.05
SN74ABT3612-30PQ	296-3989-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	20.77	17.47	16.05
SN74ABT3614-15PCB	296-3996-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	23.00	19.55	18.12
SN74ABT3614-15PQ	296-3997-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	20.04	16.86	15.49
SN74ABT3614-20PCB	296-3998-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	19.76	16.62	15.27
SN74ABT3614-20PQ	296-3999-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	19.76	16.62	15.27
SN74ABT3614-30PCB	296-4000-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	20.77	17.47	16.05
SN74ABT3614-30PQ	296-4001-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	20.77	17.47	16.05
SN74ABT7820-20PH	296-4082-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	23.76	20.20	18.72
SN74ABT7820-20PN	296-4083-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	23.76	20.20	18.72
SN74ABT7820-25PH	296-4084-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	14.04	11.81	10.85
SN74ABT7820-25PN	296-4085-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	13.95	11.73	10.78
SN74ABT7820-30PH	296-4086-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	20.46	17.40	16.12
SN74ACT2226DWR	296-15971-1-ND	Dual 64x1 FIFO Memory	24-SOIC	7.20	5.88	5.28
SN74ACT2226DWR	296-15971-2-ND	Dual 64x1 FIFO Memory	24-SOIC	6384.00/2,000		
SN74ACT2227DW	296-4371-5-ND	Dual 64x1 FIFO Memory	28-SOIC	6.72	5.40	4.92
SN74ACT2227DWR	296-15972-1-ND	Dual 64x1 FIFO Memory	28-SOIC	7.20	5.88	5.28
SN74ACT2227DWR	296-15972-2-ND	Dual 64x1 FIFO Memory	28-SOIC	3360.00/1,000		
SN74ACT2228DW	296-4372-5-ND	Dual 256x1 FIFO Memory	24-SOIC	6.72	5.40	4.92
SN74ACT2228DWR	296-15973-1-ND	Dual 256x1 FIFO Memory	24-SOIC	7.20	5.88	5.28
SN74ACT2228DWR	296-15973-2-ND	Dual 256x1 FIFO Memory	24-SOIC	6384.00/2,000		
SN74ACT2229DW	296-4373-5-ND	Dual 256x1 FIFO Memory	28-SOIC	7.50	6.15	5.55
SN74ACT2229DWR	296-15974-1-ND	Dual 256x1 FIFO Memory	28-SOIC	7.95	6.60	6.00
SN74ACT2229DWR	296-15974-2-ND	Dual 256x1 FIFO Memory	28-SOIC	4050.00/1,000		
SN74ACT2235-20PAG	296-4374-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	64-TQFP	23.76	20.20	18.72
SN74ACT2235-40FN	296-4375-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	15.25	12.83	11.79
SN74ACT2235-60FN	296-4376-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	14.08	11.84	10.88
SN74ACT3622-20PCB	296-4392-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	23.76	20.20	18.72
SN74ACT3622-20PQ	296-4393-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	23.76	20.20	18.72
SN74ACT3622-30PCB	296-4394-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	23.20	19.72	18.27
SN74ACT3622-30PQ	296-4395-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-QFP	20.46	17.40	16.12
SN74ACT3631-20PCB	296-4398-ND	512x36 Clocked FIFO Memory	120-HLQFP	23.76	20.20	18.72
SN74ACT3631-20PQ	296-4399-ND	512x36 Clocked FIFO Memory	132-QFP	23.76	20.20	18.72
SN74ACT3631-30PCB	296-4400-ND	512x36 Clocked FIFO Memory	120-HLQFP	20.46	17.40	16.12
SN74ACT3631-30PQ	296-4401-ND	512x36 Clocked FIFO Memory	132-QFP	20.46	17.40	16.12
SN74ACT3632-20PCB	296-4404-ND	512x36x2 Bi-Directional FIFO Memory	120-HLQFP	23.76	20.20	18.72
SN74ACT3632-20PQ	296-4405-ND	512x36x2 Bi-Directional FIFO Memory	132-QFP	23.76	20.20	18.72
SN74ACT3632-30PCB	296-4406-ND	512x36x2 Bi-Directional FIFO Memory	120-HLQFP	20.46	17.40	16.12
SN74ACT3632-30PQ	296-4407-ND	512x36x2 Bi-Directional FIFO Memory	132-QFP	20.46	17.40	16.12
SN74ACT3641-20PCB	296-4410-ND	1Kx36 Clocked FIFO Memory	120-HLQFP	29.04	24.69	22.87
SN74ACT3641-20PQ	296-4411-ND	1Kx36 Clocked FIFO Memory	132-QFP	29.04	24.69	22.87
SN74ACT3641-30PCB	296-4412-ND	1Kx36 Clocked FIFO Memory	120-HLQFP	29.04	24.69	22.87
SN74ACT3641-30PQ	296-4413-ND	1Kx36 Clocked FIFO Memory	132-QFP	29.04	24.69	22.87
SN74ACT3651-15PQ	296-4415-ND	2Kx36 Synchronous FIFO Memory	132-QFP	37.85	32.74	30.69
SN74ACT3651-20PCB	296-4416-ND	2Kx36 Synchronous FIFO Memory	120-HLQFP	33.00	28.05	25.99
SN74ACT3651-20PQ	296-4417-ND	2Kx36 Synchronous FIFO Memory	132-QFP	33.00	28.05	25.99
SN74ACT3651-30PCB	296-4418-ND	2Kx36 Synchronous FIFO Memory	120-HLQFP	29.70	25.25	23.39
SN74ACT3651-30PQ	296-4419-ND	2Kx36 Synchronous FIFO Memory	132-QFP	29.70	25.25	23.39
SN74ACT7802-25FN	296-4447-ND	1Kx18 Strobed FIFO Memory	68-PLCC	16.28	13.69	12.58
SN74ACT7802-25PN	296-4448-ND	1Kx18 Strobed FIFO Memory	80-QFP	13.95	11.73	10.78
SN74ACT7803-20DL	296-4450-5-ND	512x18 Clocked FIFO Memory	56-SOP	9.90	8.12	7.33
SN74ACT7803-25DL	296-4451-5-ND	512x18 Clocked FIFO Memory	56-SOP	10.25	8.41	7.59
SN74ACT7803-25DLR	296-4451-1-ND	512x18 Clocked FIFO Memory	56-SOP	10.49	8.72	7.92
SN74ACT7803-25DLR	296-4451-2-ND	512x18 Clocked FIFO Memory	56-SOP	5346.00/1,000		
SN74ACT7803-40DL	296-4452-5-ND	512x18 Clocked FIFO Memory	56-SOP	10.25	8.41	7.59
SN74ACT7804-20DL	296-4453-5-ND	512x18 Strobed FIFO Memory	56-SOP	10.50	8.61	7.77
SN74ACT7804-20DLR	296-15975-1-ND	512x18 Strobed FIFO Memory	56-SSOP	11.40	9.46	8.60
SN74ACT7804-20DLR	296-15975-2-ND	512x18 Strobed FIFO Memory	56-SSOP	5805.00/1,000		
SN74ACT7804-40DLR	296-4454-1-ND	512x18 Strobed FIFO Memory	56-SOP	11.13	9.24	8.40
SN74ACT7804-40DLR	296-4454-2-ND	512x18 Strobed FIFO Memory	56-SOP	5670.00/1,000		
SN74ACT7805-15DLR	296-15976-1-ND	256x18 Clocked FIFO Memory	56-SSOP	10.49	8.72	7.92
SN74ACT7805-15DLR	296-15976-2-ND	256x18 Clocked FIFO Memory	56-SSOP	5346.00/1,000		
SN74ACT7805-20DL	296-4456-5-ND	256x18 Clocked FIFO Memory	56-SOP	19.76	16.62	15.27
SN74ACT7805-25DLR	296-4457-1-ND	256x18 Clocked FIFO Memory	56-SOP	10.49	8.72	7.92
SN74ACT7805-25DLR	296-4457-2-ND	256x18 Clocked FIFO Memory	56-SOP	5346.00/1,000		
SN74ACT7805-40DL	296-4458-5-ND	256x18 Clocked FIFO Memory	56-SOP	10.50	8.61	7.77
SN74ACT7806-20DL	296-4459-5-ND	256x18 Strobed FIFO Memory	56-SOP	19.76	16.62	15.27
SN74ACT7807-20FN	296-4462-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	23.76	20.20	18.72
SN74ACT7807-20PAG	296-4463-ND	2Kx9 Clocked FIFO Memory	64-TQFP	23.76	20.20	18.72
SN74ACT7807-25FN	296-4464-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	13.95	11.73	10.78
SN74ACT7807-40FN	296-4466-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	15.25	12.83	11.79
SN74ACT7807-40PAG	296-4467-ND	2Kx9 Clocked FIFO Memory	64-TQFP	15.25	12.83	11.79
SN74ACT7808-20FN	296-4468-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	23.76	20.20	18.72
SN74ACT7808-20PAG	296-4469-ND	2Kx9 Strobed FIFO Memory	64-TQFP	23.76	20.20	18.72
SN74ACT7808-25FN	296-4470-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	13.95	11.73	10.78
SN74ACT7808-25PAG	296-4471-ND	2Kx9 Strobed FIFO Memory	64-TQFP	13.95	11.73	10.78
SN74ACT7808-30FN	296-4472-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	20.46	17.40	16.12
SN74ACT7808-30PAG	296-4473-ND	2Kx9 Strobed FIFO Memory	64-TQFP	20.46	17.40	16.12
SN74ACT7808-40FN	296-4474-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	15.25	12.83	11.79
SN74ACT7808-40PAG	296-4475-ND	2Kx9 Strobed FIFO Memory	64-TQFP	15.25	12.83	11.79
SN74ACT7811-18FN	296-4478-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	23.76	20.20	18.72

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

FIFO MEMORY

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ACT7811-18PN	296-4479-ND	1Kx18 Clocked FIFO Memory	80-LQFP	23.76	20.20	18.72
SN74ACT7811-20FN	296-4480-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	18.15	15.27	14.03
SN74ACT7811-20PN	296-4481-ND	1Kx18 Clocked FIFO Memory	80-LQFP	18.15	15.27	14.03
SN74ACT7811-25FN	296-4482-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	14.08	11.84	10.88
SN74ACT7811-25PN	296-4483-ND	1Kx18 Clocked FIFO Memory	80-LQFP	14.08	11.84	10.88
SN74ACT7813-20DL	296-4485-5-ND	64x18 Clocked FIFO Memory	56-SOP	9.90	8.12	7.33
SN74ACT7813-25DL	296-4486-5-ND	64x18 Clocked FIFO Memory	56-SOP	9.08	7.45	6.72
SN74ACT7813-40DL	296-4487-5-ND	64x18 Clocked FIFO Memory	56-SOP	8.25	6.77	6.11
SN74ACT7814-20DL	296-4488-5-ND	64x18 Strobed FIFO Memory	56-SOP	16.50	13.88	12.75
SN74ACT7814-40DLR	296-4489-1-ND	64x18 Strobed FIFO Memory	56-SOP	11.40	9.46	8.60
SN74ACT7814-40DLR	296-4489-2-ND	64x18 Strobed FIFO Memory	56-SOP	5805.00/1,000		
SN74ACT7881-15FN	296-4490-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	23.76	20.20	18.72
SN74ACT7881-15PN	296-4491-ND	1Kx18 Clocked FIFO Memory	80-LQFP	23.76	20.20	18.72
SN74ACT7881-20FN	296-4492-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	23.76	20.20	18.72
SN74ACT7881-20PN	296-4493-ND	1Kx18 Clocked FIFO Memory	80-LQFP	23.76	20.20	18.72
SN74ACT7881-30PN	296-4495-ND	1Kx18 Clocked FIFO Memory	80-LQFP	20.46	17.40	16.12
SN74ACT7882-15FN	296-4496-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	29.70	25.25	23.39
SN74ACT7882-20FN	296-4498-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	29.70	25.25	23.39
SN74ACT7882-20PN	296-4499-ND	2Kx18 Clocked FIFO Memory	80-LQFP	29.70	25.25	23.39
SN74ACT7882-30FN	296-4500-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	27.72	23.57	21.83
SN74ACT7882-30PN	296-4501-ND	2Kx18 Clocked FIFO Memory	80-LQFP	27.72	23.57	21.83
SN74ALS232BN	296-5039-5-ND	16x4 Asynchronous FIFO Memory	16-Dip	11.25	9.23	8.33
SN74ALVC7803-20DL	296-5161-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7803-25DL	296-5162-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7803-40DL	296-5163-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	8.88	7.28	6.57
SN74ALVC7804-25DL	296-5164-5-ND	512x18, 3.3V Async. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7805-20DLR	296-15979-1-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	20.65	17.52	16.17
SN74ALVC7805-20DLR	296-15979-2-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	11943.40/1,000		
SN74ALVC7805-25DL	296-5166-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7805-40DL	296-5167-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	7.43	6.09	5.50
SN74ALVC7806-25DL	296-5168-5-ND	256x18, 3.3V Async. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7813-20DL	296-5169-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	9.90	8.12	7.33
SN74ALVC7813-20DLR	296-15980-1-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	10.49	8.72	7.92
SN74ALVC7813-20DLR	296-15980-2-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	5346.00/1,000		
SN74ALVC7813-25DL	296-5170-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	9.08	7.45	6.72
SN74ALVC7813-40DL	296-5171-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	8.25	6.77	6.11
SN74ALVC7814-25DL	296-5172-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	9.08	7.45	6.72
SN74ALVC7814-40DL	296-5173-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	8.25	6.77	6.11
SN74V215-7PAG	296-9897-ND	512x18 Sync. FIFO Memory	64-TQFP	13.07	10.99	10.10
SN74V215-10PAG	296-9894-ND	512x18 Sync. FIFO Memory	64-TQFP	18.37	15.45	14.20
SN74V215-15PAG	296-9895-ND	512x18 Sync. FIFO Memory	64-TQFP	13.42	11.29	10.37
SN74V225-7PAG	296-9901-ND	1024x18 Sync. FIFO Memory	64-TQFP	12.54	10.55	9.69
SN74V225-10PAG	296-9898-ND	1024x18 Sync. FIFO Memory	64-TQFP	12.54	10.55	9.69
SN74V225-15PAG	296-9899-ND	1024x18 Sync. FIFO Memory	64-TQFP	13.20	11.10	10.20
SN74V225-20PAG	296-9900-ND	1024x18 Sync. FIFO Memory	64-TQFP	12.98	10.92	10.03
SN74V235-7PAG	296-9905-ND	2048x18 Sync. FIFO Memory	64-TQFP	12.54	10.55	9.69
SN74V235-10PAG	296-9902-ND	2048x18 Sync. FIFO Memory	64-TQFP	12.54	10.55	9.69
SN74V235-15PAG	296-9903-ND	2048x18 Sync. FIFO Memory	64-TQFP	12.76	10.73	9.86
SN74V235-20PAG	296-9904-ND	2048x18 Sync. FIFO Memory	64-TQFP	12.76	10.73	9.86
SN74V245-7PAG	296-9909-ND	4096x18 Sync. FIFO Memory	64-TQFP	12.74	10.72	9.85
SN74V245-15PAG	296-9907-ND	4096x18 Sync. FIFO Memory	64-TQFP	11.99	10.09	9.27
SN74V245-20PAG	296-9908-ND	4096x18 Sync. FIFO Memory	64-TQFP	12.32	10.36	9.52
SN74V263-6PZA	296-12479-ND	8192x18, 3.3V Sync. FIFO Memory	80-QFP	29.82	25.35	23.49
SN74V263-7GGM	296-15723-5-ND	8192x18, 3.3V Sync. FIFO Memory	100-BGA	40.59	35.11	32.91
SN74V263-7PZA	296-12480-ND	8192x18, 3.3V Sync. FIFO Memory	80-QFP	28.98	24.64	22.83
SN74V263-10PZA	296-12477-ND	8192x18, 3.3V Sync. FIFO Memory	80-QFP	28.14	23.92	22.17
SN74V263-15PZA	296-12478-ND	8192x18, 3.3V Sync. FIFO Memory	80-QFP	27.28	23.19	21.49
SN74V263PZAEP	296-15318-ND	8192x18, 3.3V Sync. FIFO Memory	80-QFP	30.30	25.76	23.87
SN74V273-6PZA	296-12483-ND	16384x18, 3.3V Sync. FIFO Memory	80-QFP	32.40	27.54	25.52
SN74V273-7PZA	296-12484-ND	16384x18, 3.3V Sync. FIFO Memory	80-QFP	31.54	26.81	24.84
SN74V273-10PZA	296-12481-ND	16384x18, 3.3V Sync. FIFO Memory	80-QFP	30.68	26.08	24.17
SN74V273-15PZA	296-12482-ND	16384x18, 3.3V Sync. FIFO Memory	80-QFP	29.82	25.35	23.49
SN74V273PZAEP	296-22401-ND	16384x18, 3.3V Sync. FIFO Memory	80-LQFP	33.12	28.16	26.09
SN74V283-6PZA	296-12487-ND	32768x18, 3.3V Sync. FIFO Memory	80-LQFP	34.96	29.72	27.54
SN74V283PZAEP	296-22402-ND	32768x18, 3.3V Sync. FIFO Memory	80-QFP	36.00	30.60	28.35
SN74V293-6GGM	296-18205-ND	65536x18, 3.3V Sync. FIFO Memory	100-BGA	50.28	43.49	40.77
SN74V293-6PZA	296-12491-ND	65536x18, 3.3V Sync. FIFO Memory	80-LQFP	37.50	31.88	29.54
SN74V293-7PZA	296-12492-ND	65536x18, 3.3V Sync. FIFO Memory	80-LQFP	36.66	31.17	28.87
SN74V293-10PZA	296-12489-ND	65536x18, 3.3V Sync. FIFO Memory	80-LQFP	35.80	30.43	28.20
SN74V293-15PZA	296-12490-ND	65536x18, 3.3V Sync. FIFO Memory	80-LQFP	34.96	29.72	27.54
SN74V293PZAEP	296-22403-ND	65536x18, 3.3V Sync. FIFO Memory	80-QFP	38.84	33.02	30.59
SN74V3640-7PEU	296-14940-ND	1024x36, 3.3V FIFO CMOS Memory	128-LQFP	24.46	20.80	19.27
SN74V3650-7PEU	296-14941-ND	2048x36, 3.3V FIFO CMOS Memory	128-LQFP	26.62	22.63	20.97
SN74V3660-6PEU	296-21341-ND	4096x36, 3.3V FIFO CMOS Memory	128-QFP	29.82	25.35	23.49
SN74V3660-7PEU	296-14942-ND	4096x36, 3.3V FIFO CMOS Memory	128-QFP	28.98	24.64	22.83
SN74V3680-7PEU	296-14944-ND	16384x36, 3.3V FIFO CMOS Memory	128-LQFP	34.10	28.99	26.86
SN74V3690-6PEU	296-14945-ND	32768x36, 3.3V FIFO CMOS Memory	128-LQFP	37.50	31.88	29.54

FILTERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC04CD	296-25177-5-ND	Butterworth Switched-Capacitor Filter* ***NEW!***	8-SOIC	2.94	2.37	2.16
TLC04ID	296-10230-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	3.92	3.15	2.87
TLC14CD	296-10239-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	3.19	2.57	2.34
TLC14ID	296-10240-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.80	2.25	2.05
UAF42AP	UAF42AP-ND	Universal Active Filter, -108db THD	14-Dip	16.61	13.97	12.84
UAF42AU	UAF42AU-ND	Universal Active Filter	16-SOIC	16.61	13.97	12.84

INTERFACE

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
P82B715D	296-23610-5-ND	I^{2}C Bus Extender	8-SOIC	5.32	4.28	3.90
P82B715DR	296-24729-1-ND	I^{2}C Bus Extender* ***NEW!***	8-SOIC	4.80	3.92	3.52
P82B715DR	296-24729-2-ND	I^{2}C Bus Extender* ***NEW!***	8-SOIC	5320.00/2,500		
P82B715P	296-23469-5-ND	I^{2}C Bus Extender	8-Dip	4.48	3.60	3.28
SN75DP118RHHR	296-23774-1-ND	DisplayPort 1:1 Repeater	36-QFN	3.60	2.94	2.64
SN75DP118RHHR	296-23774-2-ND	DisplayPort 1:1 Repeater	36-QFN	3990.00/2,500		
SN75DP119RGYR	296-25579-1-ND	DisplayPort 1:1 Repeater* ***NEW!***	14-VQFN	2.80	2.16	1.96
SN75DP119RGYR	296-25579-2-ND	DisplayPort 1:1 Repeater* ***NEW!***	14-VQFN	3240.00/3,000		
SN75DP119RHHR	296-25436-1-ND	DisplayPort 1:1 Repeater* ***NEW!***	36-QFN	3.00	2.45	2.20
SN75DP119RHHR	296-25436-2-ND	DisplayPort 1:1 Repeater* ***NEW!***	36-QFN	3325.00/2,500		
SN75DP120RHHR	296-25399-1-ND	DisplayPort 1:1 Repeater* ***NEW!***	36-QFN	4.50	3.68	3.30
SN75DP120RHHR	296-25399-2-ND	DisplayPort 1:1 Repeater* ***NEW!***	36-QFN	4987.50/2,500		

INTERFACE

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN75DP122ARTQR	296-24185-1-ND	DisplayPort 1:2 Switch* ***NEW!***	56-QFN	5.70	4.66	4.18
SN75DP122ARTQR	296-24185-2-ND	DisplayPort 1:2 Switch* ***NEW!***	56-QFN	5054.00/2,000		
SN75DP122RTQR	296-23152-1-ND	DisplayPort 1:2 Switch	56-VQFN	5.70	4.66	4.18
SN75DP122RTQR	296-23152-2-ND	DisplayPort 1:2 Switch	56-VQFN	5054.00/2,000		
SN75DP128ARTQR	296-24004-1-ND	DisplayPort 1:2 Switch	56-QFN	4.95	4.05	3.63
SN75DP128ARTQR	296-24004-2-ND	DisplayPort 1:2 Switch	56-QFN	4389.00/2,000		
SN75DP128RTQR	296-23119-1-ND	DisplayPort 1:2 Switch	56-VQFN	4.95	4.05	3.63
SN75DP128RTQR	296-23119-2-ND	DisplayPort 1:2 Switch	56-VQFN	4390.00/2,000		
SN75DP129RHHR	296-23096-1-ND	DisplayPort to TMDS Translator	36-VQFN	3.90	3.19	2.86
SN75DP129RHHR	296-23096-2-ND	DisplayPort to TMDS Translator	36-VQFN	4322.50/2,500		
SN75DP139RGZR	296-24334-1-ND	DisplayPort to TMDS Translator* ***NEW!***	48-QFN	3.08	2.38	2.16
SN75DP139RGZR	296-24334-2-ND	DisplayPort to TMDS Translator* ***NEW!***	48-QFN	2970.00/2,500		

INTEGRATORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ACF2101BU	ACF2101BU-ND	Low Noise, Dual, Switched Integrator	24-SOIC	35.10	29.84	27.65
IVC102U	IVC102U-ND	Prec. Switched Integrator Trans. Amp	14-SOIC	11.99	10.09	9.27

I/O EXPANDERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA6107DWR	296-21756-1-ND	I/O Expander I^{2}C 8-Bit	18-SOIC	3.15	2.58	2.31
PCA6107DWR	296-21756-2-ND	I/O Expander I^{2}C 8-Bit	18-SOIC	2793.00/2,000		
PCA9534ADBR	296-21757-1-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2.63	2.03	1.84
PCA9534ADBR	296-21757-2-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2025.00/2,000		
PCA9534ADGVR	296-21758-1-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2.63	2.03	1.84
PCA9534ADGVR	296-21758-2-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2025.00/2,000		
PCA9534ADWR	296-21759-1-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2.63	2.03	1.84
PCA9534ADWR	296-21759-2-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2025.00/2,000		
PCA9534APWR	296-21760-1-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2.63	2.03	1.84
PCA9534APWR	296-21760-2-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2025.00/2,000		
PCA9534ARGTR	296-24731-1-ND	I/O Expander I^{2}C 8-Bit* ***NEW!***	16-QFN	2.63	2.03	1.84
PCA9534ARGTR	296-24731-2-ND	I/O Expander I^{2}C 8-Bit* ***NEW!***	16-QFN	3037.50/3,000		
PCA9534DBR	296-21761-1-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2.63	2.03	1.84
PCA9534DBR	296-21761-2-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2025.00/2,000		
PCA9534DGVR	296-21762-1-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2.63	2.03	1.84
PCA9534DGVR	296-21762-2-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2025.00/2,000		
PCA9534DWR	296-21763-1-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2.63	2.03	1.84
PCA9534DWR	296-21763-2-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2026.00/2,000		
PCA9534PWR	296-21764-1-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2.63	2.03	1.84
PCA9534PWR	296-21764-2-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2025.00/2,000		
PCA9534RGVR	296-22708-1-ND	I/O Expander I^{2}C 8-Bit	16-QFN	2.63	2.03	1.84
PCA9534RGVR	296-22708-2-ND	I/O Expander I^{2}C 8-Bit	16-QFN	2531.25/2,500		
PCA9535DBR	296-20948-1-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	3.00	2.45	2.20
PCA9535DBR	296-20948-2-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	2660.00/2,000		
PCA9535DGVR	296-20949-1-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	3.00	2.45	2.20
PCA9535DGVR	296-20949-2-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	2660.00/2,000		
PCA9535DWR	296-20950-1-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	3.00	2.45	2.20
PCA9535DWR	296-20950-2-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	2660.00/2,000		
PCA9535PWR	296-20951-1-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	3.00	2.45	2.20
PCA9535PWR	296-20951-2-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	2660.00/2,000		
PCA9535RTWR	296-22768-1-ND	I/O Expander I^{2}C 16-Bit	24-QFN	3.00	2.45	2.20
PCA9535RTWR	296-22768-2-ND	I/O Expander I^{2}C 16-Bit	24-QFN	3990.00/3,000		
PCA9536DGKR	296-20952-1-ND	I/O Expander I^{2}C 4-Bit	8-MSOP	2.10	1.62	1.47
PCA9536DGKR	296-20952-2-ND	I/O Expander I^{2}C 4-Bit	8-MSOP	2025.00/2,500		
PCA9536DR	296-21765-1-ND	I/O Expander I^{2}C 4-Bit	8-SOIC	2.10	1.62	1.47
PCA9536DR	296-21765-2-ND	I/O Expander I^{2}C 4-Bit	8-SOIC	2025.00/2,500		
PCA9536YZPR	296-24732-1-ND	I/O Expander I2C 4-Bit* ***NEW!***	8-DSBGA	2.10	1.62	1.47
PCA9536YZPR	296-24732-2-ND	I/O Expander I2C 4-Bit* ***NEW!***	8-DSBGA	2430.00/3,000		
PCA9538DBR	296-21766-1-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	3.00	2.45	2.20
PCA9538DBR	296-21766-2-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2660.00/2,000		
PCA9538DWR	296-21768-1-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	3.00	2.45	2.20
PCA9538DWR	296-21768-2-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2660.00/2,000		
PCA9538PWR	296-21769-1-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	3.00	2.45	2.20
PCA9538PWR	296-21769-2-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2660.00/2,000		
PCA9539DBR	296-20953-1-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	3.30	2.70	2.42
PCA9539DBR	296-20953-2-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	2926.00/2,000		
PCA9539DGVR	296-20954-1-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	3.30	2.70	2.42
PCA9539DGVR	296-20954-2-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	2926.00/2,000		
PCA9539DWR	296-20955-1-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	3.30	2.70	2.42
PCA9539DWR	296-20955-2-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	2926.00/2,000		
PCA9539PWR	296-20956-1-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	3.30	2.70	2.42
PCA9539PWR	296-20956-2-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	2926.00/2,000		
PCA9554ADGVR	296-21778-1-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2.98	2.30	2.09
PCA9554ADGVR	296-21778-2-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2295.00/2,000		
PCA9554ADWR	296-21779-1-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2.98	2.30	2.09
PCA9554ADWR	296-21779-2-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2295.00/2,000		
PCA9554APWR	296-21780-1-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2.98	2.30	2.09
PCA9554APWR	296-21780-2-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2295.00/2,000		
PCA9554ARGTR	296-24733-1-ND	I/O Expander I^{2}C 8-Bit* ***NEW!***	16-QFN	2.98	2.30	2.09
PCA9554ARGTR	296-24733-2-ND	I/O Expander I^{2}C 8-Bit* ***NEW!***	16-QFN	3442.50/3,000		
PCA9554ARGVR	296-22709-1-ND	I/O Expander I^{2}C 8-Bit	16-VQFN	2.98	2.30	2.09
PCA9554ARGVR	296-22709-2-ND	I/O Expander I^{2}C 8-Bit	16-VQFN	2870.00/2,500		
PCA9554DBR	296-21781-1-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2.98	2.30	2.09
PCA9554DBR	296-21781-2-ND	I/O Expander I^{2}C 8-Bit	16-SSOP	2295.00/2,000		
PCA9554DGVR	296-21782-1-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2.98	2.30	2.09
PCA9554DGVR	296-21782-2-ND	I/O Expander I^{2}C 8-Bit	16-TVSOP	2295.00/2,000		
PCA9554DWR	296-21783-1-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2.98	2.30	2.09
PCA9554DWR	296-21783-2-ND	I/O Expander I^{2}C 8-Bit	16-SOIC	2296.00/2,000		
PCA9554PWR	296-21784-1-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2.98	2.30	2.09
PCA9554PWR	296-21784-2-ND	I/O Expander I^{2}C 8-Bit	16-TSSOP	2295.00/2,000		
PCA9555DBQR	296-20970-1-ND	I/O Expander I^{2}C 16-Bit	24-QSOP	3.60	2.94	2.64
PCA9555DBQR	296-20970-2-ND	I/O Expander I^{2}C 16-Bit	24-QSOP	3990.00/2,500		
PCA9555DBR	296-20971-1-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	3.60	2.94	2.64
PCA9555DBR	296-20971-2-ND	I/O Expander I^{2}C 16-Bit	24-SSOP	3192.00/2,000		
PCA9555DGVR	296-20972-1-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	3.60	2.94	2.64
PCA9555DGVR	296-20972-2-ND	I/O Expander I^{2}C 16-Bit	24-TVSOP	3192.00/2,000		
PCA9555DWR	296-20973-1-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	3.60	2.94	2.64
PCA9555DWR	296-20973-2-ND	I/O Expander I^{2}C 16-Bit	24-SOIC	3192.00/2,000		
PCA9555PWR	296-20974-1-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	3.60	2.94	2.64
PCA9555PWR	296-20974-2-ND	I/O Expander I^{2}C 16-Bit	24-TSSOP	3192.00/2,000		

* *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

Texas Instruments DigiReel® (Cont.)

I/O EXPANDERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9557DBR	296-20975-1-ND	I/O Expander I^2C 8-Bit	16-SSOP	3.15	2.43	2.21
PCA9557DBR	296-20975-2-ND	I/O Expander I^2C 8-Bit	16-SSOP	2430.00/2,000		
PCA9557DGVR	296-20976-1-ND	I/O Expander I^2C 8-Bit	16-TVSOP	3.15	2.43	2.21
PCA9557DGVR	296-20976-2-ND	I/O Expander I^2C 8-Bit	16-TVSOP	2430.00/2,000		
PCA9557DR	296-20977-1-ND	I/O Expander I^2C 8-Bit	16-SOIC	3.15	2.43	2.21
PCA9557DR	296-20977-2-ND	I/O Expander I^2C 8-Bit	16-SOIC	3037.50/2,500		
PCA9557PWR	296-20978-1-ND	I/O Expander I^2C 8-Bit	16-TSSOP	3.15	2.43	2.21
PCA9557PWR	296-20978-2-ND	I/O Expander I^2C 8-Bit	16-TSSOP	2430.00/2,000		
PCA9557RGVR	296-21785-1-ND	I/O Expander I^2C 8-Bit	16-QFN	3.15	2.43	2.21
PCA9557RGVR	296-21785-2-ND	I/O Expander I^2C 8-Bit	16-QFN	3037.50/2,500		
PCF8574ADGVR	296-17437-1-ND	I/O Expander I^2C 8-Bit	20-TVSOP	2.10	1.62	1.47
PCF8574ADGVR	296-17437-2-ND	I/O Expander I^2C 8-Bit	20-TVSOP	1620.00/2,000		
PCF8574ADWR	296-13105-1-ND	I/O Expander I^2C 8-Bit	16-SOIC	2.10	1.62	1.47
PCF8574ADWR	296-13105-2-ND	I/O Expander I^2C 8-Bit	16-SOIC	1620.00/2,000		
PCF8574AN	296-13106-5-ND	I/O Expander I^2C 8-Bit	16-Dip	1.86	1.50	1.35
PCF8574APWR	296-13107-1-ND	I/O Expander I^2C 8-Bit	20-TSSOP	2.10	1.62	1.47
PCF8574APWR	296-13107-2-ND	I/O Expander I^2C 8-Bit	20-TSSOP	1620.00/2,000		
PCF8574ARGYR	296-15150-1-ND	I/O Expander I^2C 8-Bit	20-VQFN	2.10	1.62	1.47
PCF8574ARGYR	296-15150-2-ND	I/O Expander I^2C 8-Bit	20-VQFN	2610.00/3,000		
PCF8574DGVR	296-17364-1-ND	I/O Expander I^2C 8-Bit	20-TVSOP	2.10	1.62	1.47
PCF8574DGVR	296-17364-2-ND	I/O Expander I^2C 8-Bit	20-TVSOP	1620.00/2,000		
PCF8574DWR	296-13108-1-ND	I/O Expander I^2C 8-Bit	16-SOIC	2.10	1.62	1.47
PCF8574DWR	296-13108-2-ND	I/O Expander I^2C 8-Bit	16-SOIC	1620.00/2,000		
PCF8574N	296-13109-5-ND	I/O Expander I^2C 8-Bit	16-Dip	1.86	1.50	1.35
PCF8574PWR	296-13110-1-ND	I/O Expander I^2C 8-Bit	20-TSSOP	2.10	1.62	1.47
PCF8574PWR	296-13110-2-ND	I/O Expander I^2C 8-Bit	20-TSSOP	1620.00/2,000		
PCF8574RGTR	296-21238-1-ND	I/O Expander I^2C 8-Bit	16-VQFN	2.10	1.62	1.47
PCF8574RGTR	296-21238-2-ND	I/O Expander I^2C 8-Bit	16-VQFN	2430.00/3,000		
PCF8574RGYR	296-15173-1-ND	I/O Expander I^2C 8-Bit	20-VQFN	2.10	1.62	1.47
PCF8574RGYR	296-15173-2-ND	I/O Expander I^2C 8-Bit	20-VQFN	870.00/1,000		
PCF8575CDBQR	296-17913-1-ND	I/O Expander I^2C 16-Bit	24-QSOP	3.15	2.43	2.21
PCF8575CDBQR	296-17913-2-ND	I/O Expander I^2C 16-Bit	24-QSOP	3037.50/2,500		
PCF8575CDBR	296-20979-1-ND	I/O Expander I^2C 16-Bit	24-SSOP	3.15	2.43	2.21
PCF8575CDBR	296-20979-2-ND	I/O Expander I^2C 16-Bit	24-SSOP	2430.00/2,000		
PCF8575CDGVR	296-17914-1-ND	I/O Expander I^2C 16-Bit	24-TVSOP	3.15	2.43	2.21
PCF8575CDGVR	296-17914-2-ND	I/O Expander I^2C 16-Bit	24-TVSOP	2430.00/2,000		
PCF8575CDWR	296-17915-1-ND	I/O Expander I^2C 16-Bit	24-SOIC	3.15	2.43	2.21
PCF8575CDWR	296-17915-2-ND	I/O Expander I^2C 16-Bit	24-SOIC	2430.00/2,000		
PCF8575CPWR	296-17916-1-ND	I/O Expander I^2C 16-Bit	24-TSSOP	3.15	2.43	2.21
PCF8575CPWR	296-17916-2-ND	I/O Expander I^2C 16-Bit	24-TSSOP	2430.00/2,000		
PCF8575CRGER	296-20980-1-ND	I/O Expander I^2C 16-Bit	24-VQFN	3.15	2.43	2.21
PCF8575CRGER	296-20980-2-ND	I/O Expander I^2C 16-Bit	24-VQFN	3645.00/3,000		
PCF8575DBQR	296-17806-1-ND	I/O Expander I^2C 16-Bit	24-QSOP	3.15	2.43	2.21
PCF8575DBQR	296-17806-2-ND	I/O Expander I^2C 16-Bit	24-QSOP	3037.50/2,500		
PCF8575DBR	296-17856-1-ND	I/O Expander I^2C 16-Bit	24-SSOP	3.30	2.70	2.42
PCF8575DBR	296-17856-2-ND	I/O Expander I^2C 16-Bit	24-SSOP	2926.00/2,000		
PCF8575DGVR	296-17792-1-ND	I/O Expander I^2C 16-Bit	24-TVSOP	3.15	2.43	2.21
PCF8575DGVR	296-17792-2-ND	I/O Expander I^2C 16-Bit	24-TVSOP	2430.00/2,000		
PCF8575DWR	296-20981-1-ND	I/O Expander I^2C 16-Bit	24-SOIC	3.15	2.43	2.21
PCF8575DWR	296-20981-2-ND	I/O Expander I^2C 16-Bit	24-SOIC	2430.00/2,000		
PCF8575PWR	296-17807-1-ND	I/O Expander I^2C 16-Bit	24-TSSOP	3.15	2.43	2.21
PCF8575PWR	296-17807-2-ND	I/O Expander I^2C 16-Bit	24-TSSOP	2430.00/2,000		
PCF8575RGER	296-20982-1-ND	I/O Expander I^2C 16-Bit	24-VQFN	3.15	2.43	2.21
PCF8575RGER	296-20982-2-ND	I/O Expander I^2C 16-Bit	24-VQFN	3645.00/3,000		
PCA9535RGER	296-19548-1-ND	I/O Expander I^2C 16-Bit	24-VQFN	3.00	2.45	2.20
PCA9535RGER	296-19548-2-ND	I/O Expander I^2C 16-Bit	24-VQFN	3990.00/3,000		
PCA9539DBQR	296-19266-1-ND	I/O Expander I^2C 16-Bit	24-QSOP	3.30	2.70	2.42
PCA9539DBQR	296-19266-2-ND	I/O Expander I^2C 16-Bit	24-QSOP	3657.50/2,500		
PCA9539RGER	296-19549-1-ND	I/O Expander I^2C 16-Bit	24-VQFN	3.30	2.70	2.42
PCA9539RGER	296-19549-2-ND	I/O Expander I^2C 16-Bit	24-VQFN	4389.00/3,000		
PCA9555RGER	296-19591-1-ND	I/O Expander I^2C 16-Bit	24-VQFN	3.60	2.94	2.64
PCA9555RGER	296-19591-2-ND	I/O Expander I^2C 16-Bit	24-VQFN	4788.00/3,000		
PCA9557RGYR	296-19472-1-ND	I/O Expander I^2C 8-Bit	16-QFN	3.15	2.43	2.21
PCA9557RGYR	296-19472-2-ND	I/O Expander I^2C 8-Bit	16-QFN	3645.00/3,000		
TCA6408APWR	296-24327-1-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TCA6408APWR	296-24327-2-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-TSSOP	2026.00/2,000		
TCA6408ARGTR	296-24825-1-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-QFN	2.63	2.03	1.84
TCA6408ARGTR	296-24825-2-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-QFN	3039.00/3,000		
TCA6408ARSVR	296-24328-1-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-QFN	2.63	2.03	1.84
TCA6408ARSVR	296-24328-2-ND	I/O Expander I^2C 8-Bit* ***NEW!***	16-QFN	3039.00/3,000		
TCA6408PWR	296-21822-1-ND	I/O Expander I^2C 8-Bit	16-TSSOP	2.63	2.03	1.84
TCA6408PWR	296-21822-2-ND	I/O Expander I^2C 8-Bit	16-TSSOP	2026.00/2,000		
TCA6408RGTR	296-21823-1-ND	I/O Expander I^2C 8-Bit	16-QFN	2.98	2.30	2.09
TCA6408RGTR	296-21823-2-ND	I/O Expander I^2C 8-Bit	16-QFN	3444.00/3,000		
TCA6408ZXYR	296-24755-1-ND	I/O Expander I^2C 8-Bit* ***NEW!***	20-BGA	2.98	2.30	2.09
TCA6408ZXYR	296-24755-2-ND	I/O Expander I^2C 8-Bit* ***NEW!***	20-BGA	2870.00/2,500		
TCA6416ARTWR	296-24826-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	2.98	2.30	2.09
TCA6416ARTWR	296-24826-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	3444.00/3,000		
TCA6416ZQSR	296-24756-1-ND	I/O Expander I2C 16-Bit* ***NEW!***	24-BGA	2.98	2.30	2.09
TCA6416ZQSR	296-24756-2-ND	I/O Expander I2C 16-Bit* ***NEW!***	24-BGA	2870.00/2,500		
TCA9535PWR	296-25129-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	3.00	2.45	2.20
TCA9535PWR	296-25129-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	2660.00/2,000		
TCA9535RTWR	296-25156-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	3.00	2.45	2.20
TCA9535RTWR	296-25156-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	3990.00/3,000		
TCA9539PWR	296-25130-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	3.30	2.70	2.42
TCA9539PWR	296-25130-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	2926.00/2,000		
TCA9539RTWR	296-25157-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	3.30	2.70	2.42
TCA9539RTWR	296-25157-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	4389.00/3,000		
TCA9555PWR	296-24827-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	3.60	2.94	2.64
TCA9555PWR	296-24827-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-TSSOP	3192.00/2,000		
TCA9555RTWR	296-24857-1-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	3.60	2.94	2.64
TCA9555RTWR	296-24857-2-ND	I/O Expander I^2C 16-Bit* ***NEW!***	24-QFN	4788.00/3,000		

Texas Instruments DigiReel®

LINEAR PERIPHERAL DRIVERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS3680D	296-9484-5-ND	Quad Telephone Relay Driver	14-SOIC	1.18	.95	.83
DS3680N	296-9485-5-ND	Quad Telephone Relay Driver	14-Dip	1.08	.87	.76
SN75437ANE	296-14959-5-ND	Quad Peripheral Driver	16-Dip	2.73	2.20	1.98
SN754410NE	296-9911-5-ND	Quad Half-H Driver	16-Dip	2.33	1.88	1.69
SN75451BD	296-9912-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.96	.75	.65
SN75451BDR	296-14960-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.88	.68	.60
SN75451BDR	296-14960-2-ND	Dual High Speed Peripheral Driver	8-SOIC	725.00/2,500		
SN75451BP	296-1746-5-ND	Dual High Speed Peripheral Driver	8-Dip	.96	.75	.65
SN75451BPSR	296-13316-1-ND	Dual Peripheral Driver	8-SOP	.88	.68	.60

Texas Instruments DigiReel® (Cont.)

LINEAR PERIPHERAL DRIVERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75451BPSR	296-13316-2-ND	Dual Peripheral Driver	8-SOP	580.00/2,000		
SN75452BDR	296-14961-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.88	.68	.60
SN75452BDR	296-14961-2-ND	Dual High Speed Peripheral Driver	8-SOIC	725.00/2,500		
SN75452BP	296-1747-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.62	.54
SN75452BPSR	296-26651-1-ND	Dual HS Peripheral Driver* ***NEW!***	8-SOP	.88	.68	.60
SN75452BPSR	296-26651-2-ND	Dual HS Peripheral Driver* ***NEW!***	8-SOP	580.00/2,000		
SN75453BD	296-9913-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.88	.69	.60
SN75453BDR	296-9913-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.88	.68	.60
SN75453BDR	296-9913-2-ND	Dual High Speed Peripheral Driver	8-SOIC	725.00/2,500		
SN75453BP	296-1748-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.62	.54
SN75453BPSR	296-26652-1-ND	Dual HS Peripheral Driver* ***NEW!***	8-SOP	.88	.68	.60
SN75453BPSR	296-26652-2-ND	Dual HS Peripheral Driver* ***NEW!***	8-SOP	580.00/2,000		
SN75454BP	296-9914-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.62	.54
SN75462P	296-9915-5-ND	Dual Peripheral Driver	8-Dip	1.33	1.07	.94
SN75463P	296-9916-5-ND	Dual Peripheral Driver	8-Dip	1.67	1.35	1.22
SN75468DR	296-26653-1-ND	High Voltage Darlington Transistor Array* ***NEW!***	16-SOIC	.95	.75	.68
SN75468DR	296-26653-2-ND	High Voltage Darlington Transistor Array* ***NEW!***	16-SOIC	875.00/2,500		
SN75468N	296-9917-5-ND	High Voltage Darlington Transistor Array	16-Dip	.88	.70	.62
SN75469N	296-9918-5-ND	High Voltage Darlington Transistor Array	16-Dip	.80	.62	.54
SN75471P	296-9919-5-ND	Dual Peripheral Driver	8-Dip	.96	.75	.65
SN75472D	296-11807-5-ND	Dual Peripheral Driver* ***NEW!***	8-SOIC	.80	.62	.54
SN75472P	296-1749-5-ND	Dual Peripheral Driver	8-Dip	.80	.62	.54
SN75477DR	296-14962-1-ND	Dual Peripheral Driver	8-SOIC	.88	.68	.60
SN75477DR	296-14962-2-ND	Dual Peripheral Driver	8-SOIC	725.00/2,500		
SN75477P	296-9920-5-ND	Dual Peripheral Driver	8-Dip	.80	.62	.54
TL4242DRJR	296-23615-1-ND	LED Driver with PWM Control	8-SON	1.33	1.05	.95
TL4242DRJR	296-23615-2-ND	LED Driver with PWM Control	8-SON	525.00/1,000		
TLC5904PZP	296-2378-ND	Linear LED Driver	100-TQFP	11.63	9.54	8.61
TLC5905PAP	296-2379-ND	Linear LED Driver	64-TQFP	7.13	5.85	5.28
TLC5911PZP	296-2381-ND	Linear LED Driver	100-TQFP	11.25	9.23	8.33
TLC5916IDR	296-22710-1-ND	Linear LED Driver	16-SOIC	1.79	1.41	1.27
TLC5916IDR	296-22710-2-ND	Linear LED Driver	16-SOIC	1645.00/2,500		
TLC5916IN	296-24383-5-ND	Linear LED Driver* ***NEW!***	16-Dip	1.65	1.32	1.16
TLC5916IPWR	296-22711-1-ND	Linear LED Driver	16-TSSOP	1.79	1.41	1.27
TLC5916IPWR	296-22711-2-ND	Linear LED Driver	16-TSSOP	1316.00/2,000		
TLC5916QDRQ1	296-23321-1-ND	Linear LED Driver	16-SOIC	1.93	1.49	1.35
TLC5916QDRQ1	296-23321-2-ND	Linear LED Driver	16-SOIC	1857.50/2,500		
TLC5917IPWR	296-21996-1-ND	Linear LED Driver	16-TSSOP	2.10	1.62	1.47
TLC5917IPWR	296-21996-2-ND	Linear LED Driver	16-TSSOP	1620.00/2,000		
TLC5917QDRQ1	296-23322-1-ND	Linear LED Driver	16-SOIC	2.45	1.89	1.72
TLC5917QDRQ1	296-23322-2-ND	Linear LED Driver	16-SOIC	2362.50/2,500		
TLC5920DL	296-10348-5-ND	Linear LED Driver	48-SSOP	3.78	3.04	2.77
TLC5921DAP	296-10349-5-ND	Linear LED Driver	32-TSSOP	4.00	3.22	2.94
TLC5922DAP	296-15843-5-ND	Linear LED Driver	32-TSSOP	4.62	3.72	3.39
TLC5923DAP	296-17731-5-ND	Linear LED Driver	32-TSSOP	4.76	3.83	3.49
TLC5923RHB	296-19333-ND	Linear LED Driver	32-QFN	3.92	3.15	2.87
TLC5923RHBT	296-19334-1-ND	Linear LED Driver	32-QFN	4.95	4.05	3.63
TLC5923RHBT	296-19334-2-ND	Linear LED Driver	32-QFN	763.25/250		
TLC5924DAP	296-20736-ND	Linear LED Driver	32-TSSOP	5.04	4.05	3.69
TLC5924RHBT	296-20779-1-ND	Linear LED Driver	32-QFN	5.25	4.29	3.85
TLC5924RHBT	296-20779-2-ND	Linear LED Driver	32-QFN	809.50/250		
TLC5925IDBQR	296-23916-1-ND	Linear LED Driver	24-QSOP	1.75	1.35	1.23
TLC5925IDBQR	296-23916-2-ND	Linear LED Driver	24-QSOP	1687.50/2,500		
TLC5925IDWR	296-24465-1-ND	Linear LED Driver* ***NEW!***	24-SOIC	1.75	1.35	1.23
TLC5925IDWR	296-24465-2-ND	Linear LED Driver* ***NEW!***	24-SOIC	1350.00/2,000		
TLC5925IPWR	296-24466-1-ND	Linear LED Driver* ***NEW!***	24-TSSOP	1.75	1.35	1.23
TLC5925IPWR	296-24466-2-ND	Linear LED Driver* ***NEW!***	24-TSSOP	1350.00/2,000		
TLC5926IDBQR	296-24760-1-ND	Linear LED Driver* ***NEW!***	24-QSOP	2.10	1.62	1.47
TLC5926IDBQR	296-24760-2-ND	Linear LED Driver* ***NEW!***	24-QSOP	2025.00/2,500		
TLC5926IDWR	296-24467-1-ND	Linear LED Driver* ***NEW!***	24-SOIC	2.10	1.62	1.47
TLC5926IDWR	296-24467-2-ND	Linear LED Driver* ***NEW!***	24-SOIC	1620.00/2,000		
TLC5926IPWPR	296-24761-1-ND	Linear LED Driver* ***NEW!***	24-TSSOP	2.10	1.62	1.47
TLC5926IPWPR	296-24761-2-ND	Linear LED Driver* ***NEW!***	24-TSSOP	1620.00/2,000		
TLC5926QPWPRQ1	296-24948-1-ND	Linear LED Driver* ***NEW!***	24-HTSSOP	2.45	1.89	1.72
TLC5926QPWPRQ1	296-24948-2-ND	Linear LED Driver* ***NEW!***	24-HTSSOP	1890.00/2,000		
TLC5927IDBQR	296-24762-1-ND	Linear LED Driver* ***NEW!***	24-QSOP	2.28	1.76	1.60
TLC5927IDBQR	296-24762-2-ND	Linear LED Driver* ***NEW!***	24-QSOP	2195.00/2,500		
TLC5927IDWR	296-24468-1-ND	Linear LED Driver* ***NEW!***	24-SOIC	2.28	1.76	1.60
TLC5927IDWR	296-24468-2-ND	Linear LED Driver* ***NEW!***	24-SOIC	1755.00/2,000		
TLC5927IPWPR	296-24763-1-ND	Linear LED Driver* ***NEW!***	24-TSSOP	2.28	1.76	1.60
TLC5927IPWPR	296-24763-2-ND	Linear LED Driver* ***NEW!***	24-TSSOP	1756.00/2,000		
TLC5928DBQR	296-23653-1-ND	Linear LED Driver	24-QSOP	1.75	1.35	1.23
TLC5928DBQR	296-23653-2-ND	Linear LED Driver	24-QSOP	1687.50/2,500		
TLC5928PW	296-23819-5-ND	Linear LED Driver	24-TSSOP	1.86	1.50	1.35
TLC5928PWPR	296-23654-1-ND	Linear LED Driver	24-TSSOP	1.75	1.35	1.23
TLC5928PWPR	296-23654-2-ND	Linear LED Driver	24-TSSOP	1350.00/2,000		
TLC5928RGET	296-23922-1-ND	Linear LED Driver	24-VQFN	2.28	1.76	1.60
TLC5928RGET	296-23922-2-ND	Linear LED Driver	24-VQFN	325.00/250		
TLC5930PWP	296-15631-5-ND	LED Driver RGB	24-TSSOP	9.00	7.38	6.66
TLC5940PWP	296-17733-5-ND	LED Driver with PWM Control	28-TSSOP	4.20	3.38	3.08
TLC5940RHBR	296-21251-1-ND	LED Driver with PWM Control	32-QFN	3.75	3.07	2.75
TLC5940RHBR	296-21251-2-ND	LED Driver with PWM Control	32-QFN	4989.00/3,000		
TLC5941EVM-156	296-21104-ND	Evaluation Module for TLC5941	—	101.00	—	—
TLC5941PWP	296-18617-5-ND	LED Driver with PWM Control	28-TSSOP	3.36	2.70	2.46
TLC5941QPWPRQ1	296-24223-1-ND	LED Driver with PWM Control* ***NEW!***	28-HTSSOP	4.50	3.68	3.30
TLC5941QPWPRQ1	296-24223-2-ND	LED Driver with PWM Control* ***NEW!***	28-HTSSOP	3990.00/2,000		
TLC5941RHBT	296-21105-1-ND	LED Driver with PWM Control	32-QFN	3.75	3.07	2.75
TLC5941RHBT	296-21105-2-ND	LED Driver with PWM Control	32-QFN	578.25/250		
TLC5942PWP	296-22868-5-ND	Linear LED Driver	28-TSSOP	3.78	3.04	2.77
TLC5942RHBT	296-22869-1-ND	Linear LED Driver	32-QFN	4.20	3.43	3.08
TLC5942RHBT	296-22869-2-ND	Linear LED Driver	32-QFN	647.50/250		
TLC5943PWPR	296-22974-1-ND	Linear LED Driver	28-TSSOP	3.75	3.07	2.75
TLC5943PWPR	296-22974-2-ND	Linear LED Driver	28-TSSOP	3326.00/2,000		
TLC5943RHBR	296-23091-1-ND	Linear LED Driver	32-QFN	4.20	3.43	3.08
TLC5943RHBR	296-23091-2-ND	Linear LED Driver	32-QFN	5586.00/3,000		
TLC5944PWPR	296-23537-1-ND	Linear LED Driver	28-TSSOP	3.30	2.70	2.42
TLC5944PWPR	296-23537-2-ND	Linear LED Driver	28-TSSOP	2926.00/2,000		
TLC5944RHBT	296-23538-1-ND	Linear LED Driver	32-QFN	4.20	3.43	3.08
TLC5944RHBT	296-23538-2-ND	Linear LED Driver	32-QFN	647.50/250		
TLC5945PWPR	296-21862-1-ND	Linear LED Driver	28-TSSOP	3.30	2.70	2.42
TLC5945PWPR	296-21862-2-ND	Linear LED Driver	28-TSSOP	2926.00/2,000		
TLC5946PW	296-23391-5-ND	Linear LED Driver	28-TSSOP	3.36	2.70	2.46
TLC5946PWP	296-23392-5-ND	Linear LED Driver	28-TSSOP	3.36	2.70	2.46
TLC5946RHBR	296-23539-1-ND	Linear LED Driver	32-QFN	3.60	2.94	2.64
TLC5946RHBR	296-23539-2-ND	Linear LED Driver	32-QFN	4788.00/3,000		

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

LINEAR PERIPHERAL DRIVERS

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC5947DAP	296-23576-5-ND	Linear LED Driver	32-TSSOP	4.06	3.27	2.98
TLC5947RHBT	296-23820-1-ND	Linear LED Driver	32-QFN	4.80	3.92	3.52
TLC5947RHBT	296-23820-2-ND	Linear LED Driver	32-QFN	740.00/250		
TLC5951DAP	296-25461-5-ND	LED Driver with PWM Control* ***NEW!***	38-HTSSOP	9.00	7.38	6.66
TLC5951RHAR	296-25567-1-ND	LED Driver with PWM Control* ***NEW!***	40-VQFN	7.95	6.60	6.00
TLC5951RHAR	296-25567-2-ND	LED Driver with PWM Control* ***NEW!***	40-VQFN	9750.00/2,500		
TLC5952DAP	296-24580-5-ND	Linear LED Driver* ***NEW!***	32-HTSSOP	6.63	5.44	4.91
TLC59025IDBQR	296-24830-1-ND	Linear LED Driver* ***NEW!***	24-QSOP	1.93	1.49	1.35
TLC59025IDBQR	296-24830-2-ND	Linear LED Driver* ***NEW!***	24-QSOP	1856.25/2,500		
TLC59108FIPWR	296-25400-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2.80	2.16	1.96
TLC59108FIPWR	296-25400-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2160.00/2,000		
TLC59108IPWR	296-25340-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2.80	2.16	1.96
TLC59108IPWR	296-25340-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2160.00/2,000		
TLC59210IN	296-25401-5-ND	Linear LED Driver* ***NEW!***	20-PDIP	2.33	1.88	1.69
TLC59210IPWR	296-25402-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2.10	1.62	1.47
TLC59210IPWR	296-25402-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1620.00/2,000		
TLC59211IN	296-25403-5-ND	Linear LED Driver* ***NEW!***	20-PDIP	2.17	1.75	1.58
TLC59211IPWR	296-25404-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1.93	1.49	1.35
TLC59211IPWR	296-25404-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1485.00/2,000		
TLC59212IPWR	296-25405-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1.82	1.44	1.30
TLC59212IPWR	296-25405-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1344.00/2,000		
TLC59213IN	296-25406-5-ND	Linear LED Driver* ***NEW!***	20-PDIP	2.64	2.13	1.92
TLC59213IPWR	296-24262-1-ND	Linear LED Driver* ***NEW!***	20-TSSOP	2.45	1.89	1.72
TLC59213IPWR	296-24262-2-ND	Linear LED Driver* ***NEW!***	20-TSSOP	1890.00/2,000		
TLC59281DBQR	296-25789-1-ND	Constant Current LED Driver* ***NEW!***	24-SSOP	2.10	1.62	1.47
TLC59281DBQR	296-25789-2-ND	Constant Current LED Driver* ***NEW!***	24-SSOP	2025.00/2,500		
TLC59401PWPR	296-25565-1-ND	LED Driver with PWM Control* ***NEW!***	28-HTSSOP	5.40	4.41	3.96
TLC59401PWPR	296-25565-2-ND	LED Driver with PWM Control* ***NEW!***	28-HTSSOP	4788.00/2,000		
TLC59401RHBR	296-25566-1-ND	LED Driver with PWM Control* ***NEW!***	32-QFN	6.00	4.90	4.40
TLC59401RHBR	296-25566-2-ND	LED Driver with PWM Control* ***NEW!***	32-QFN	7980.00/3,000		
TLC59461PWP	296-24399-5-ND	Linear LED Driver* ***NEW!***	28-HTSSOP	3.64	2.93	2.67
TPIC2810D	296-13746-5-ND	Linear LED Driver	16-SOIC	2.67	2.15	1.94
TPIC2810DG4	296-21426-5-ND	Linear LED Driver	16-SOIC	2.67	2.15	1.94
TPL9201PWPR	296-21442-1-ND	8-Channel Relay Driver	20-HTSSOP	1.75	1.35	1.23
TPL9201PWPR	296-21442-2-ND	8-Channel Relay Driver	20-HTSSOP	1350.00/2,000		
TPS61054YZGR	296-23548-1-ND	White LED Backlight Driver	12-DSBGA	3.33	2.57	2.33
TPS61054YZGR	296-23548-2-ND	White LED Backlight Driver	12-DSBGA	3849.00/3,000		
TPS61055YZGR	296-23549-1-ND	White LED Backlight Driver	12-DSBGA	3.15	2.43	2.21
TPS61055YZGR	296-23549-2-ND	White LED Backlight Driver	12-DSBGA	3645.00/3,000		
TPS61160DRVR	296-22942-1-ND	White LED Backlight Driver	6-SON	2.63	2.03	1.84
TPS61160DRVR	296-22942-2-ND	White LED Backlight Driver	6-SON	3039.00/3,000		
TPS61161ADRVT	296-24542-1-ND	White LED Backlight Driver* ***NEW!***	6-SON	3.15	2.43	2.21
TPS61161ADRVT	296-24542-2-ND	White LED Backlight Driver* ***NEW!***	6-SON	450.00/250		
TPS61161DRVR	296-22943-1-ND	White LED Backlight Driver	6-SON	2.80	2.16	1.96
TPS61161DRVR	296-22943-2-ND	White LED Backlight Driver	6-SON	3240.00/3,000		
TPS61161EVM-243	296-23693-ND	Evaluation Module for TPS61161	—	50.00	—	—
TPS61165DRVR	296-22944-1-ND	LED Driver High Brightness	6-SON	3.30	2.70	2.42
TPS61165DRVR	296-22944-2-ND	LED Driver High Brightness	6-SON	4389.00/3,000		
TPS92010DR	296-25781-1-ND	LED Driver with PWM Ctrlr.* ***NEW!***	8-SOIC	1.48	1.17	1.06
TPS92010DR	296-25781-2-ND	LED Driver with PWM Ctrlr.* ***NEW!***	8-SOIC	1365.00/2,500		
TPS92210DR	296-25782-1-ND	PFC LED Driver Controller* ***NEW!***	8-SOIC	2.63	2.03	1.84
TPS92210DR	296-25782-2-ND	PFC LED Driver Controller* ***NEW!***	8-SOIC	2532.50/2,500		
ULN2002AN	296-27169-5-ND	Darlington Transistor Array* ***NEW!***	16-PDip	.57	.42	.36
ULN2003AD	296-1368-5-ND	Darlington Transistor Array	16-SOIC	.68	.51	.44
ULN2003ADR	296-1368-1-ND	Darlington Transistor Array	16-SOIC	.66	.47	.40
ULN2003ADR	296-1368-2-ND	Darlington Transistor Array	16-SOIC	465.00/2,500		
ULN2003AIDR	296-15407-1-ND	Darlington Transistor Array	16-SOIC	.66	.47	.40
ULN2003AIDR	296-15407-2-ND	Darlington Transistor Array	16-SOIC	465.00/2,500		
ULN2003AIN	296-16971-5-ND	Darlington Transistor Array	16-Dip	.63	.47	.40
ULN2003AIPW	296-27171-5-ND	Darlington Transistor Array* ***NEW!***	16-TSSOP	.68	.51	.44
ULN2003AIPWR	296-17785-1-ND	Darlington Transistor Array	16-TSSOP	.66	.47	.40
ULN2003AIPWR	296-17785-2-ND	Darlington Transistor Array	16-TSSOP	372.00/2,000		
ULN2003AN	296-1979-5-ND	Darlington Transistor Array	16-Dip	.57	.42	.36
ULN2003ANSR	296-27172-1-ND	Darlington Transistor Array* ***NEW!***	16-SOP	.73	.51	.44
ULN2003ANSR	296-27172-2-ND	Darlington Transistor Array* ***NEW!***	16-SOP	410.00/2,000		
ULN2003APWR	296-27173-1-ND	Darlington Transistor Array* ***NEW!***	16-TSSOP	.66	.47	.40
ULN2003APWR	296-27173-2-ND	Darlington Transistor Array* ***NEW!***	16-TSSOP	372.00/2,000		
ULN2004AD	296-12965-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.68	.51	.44
ULN2004ADR	296-15067-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.66	.47	.40
ULN2004ADR	296-15067-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	465.00/2,500		
ULN2004AIDR	296-17022-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.66	.47	.40
ULN2004AIDR	296-17022-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	465.00/2,500		
ULN2004AIN	296-17051-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.63	.47	.40
ULN2004AINSR	296-17023-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	.73	.51	.44
ULN2004AINSR	296-17023-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	410.00/2,000		
ULN2004AN	296-1980-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.57	.42	.36
ULN2803ADWR	296-15777-1-ND	Darlington Transistor Array	18-SOIC	.95	.75	.68
ULN2803ADWR	296-15777-2-ND	Darlington Transistor Array	18-SOIC	700.00/2,000		
ULN2803AN	296-19046-5-ND	Darlington Transistor Array	18-Dip	.96	.77	.68
ULQ2003AD	296-22622-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.62	.49	.43
ULQ2003ADR	296-11570-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.73	.51	.44
ULQ2003ADR	296-11570-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	512.50/2,500		
ULQ2003AN	296-22623-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.67	.53	.46
ULQ2003ATDQ1	296-14394-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.63	.49	.43
ULQ2003ATDRG4Q1	296-24810-1-ND	High-Voltage, High-Current Darlington Transistor Array* ***NEW!***	16-SOIC	.74	.52	.45
ULQ2003ATDRG4Q1	296-24810-2-ND	High-Voltage, High-Current Darlington Transistor Array* ***NEW!***	16-SOIC	520.00/2,500		
ULQ2003ATDRQ1	296-14395-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.74	.52	.45
ULQ2003ATDRQ1	296-14395-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	520.00/2,500		

LINEAR PERIPHERAL DRIVERS

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ULQ2004ADR	296-13535-1-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	.73	.51	.44
ULQ2004ADR	296-13535-2-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	512.50/2,500		
ULQ2004AN	296-15700-5-ND	High-Voltage High-Current Darlington Transistor Array	16-Dip	.67	.53	.46
ULQ2004ATDRG4Q1	296-24117-1-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	.74	.52	.45
ULQ2004ATDRG4Q1	296-24117-2-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	520.00/2,500		

MULTIPLEXERS

TEXAS INSTRUMENTS

RoHS Compliant Parts Available

Analog Multiplexers/Multipliers

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MPC506AP	MPC506AP-ND	Single Ended 16-Ch./Diff. 8-Channel CMOS	28-Dip	11.92	10.03	9.22
MPC506AU	MPC506AU-ND	Single Ended 16-Ch./Diff. 8-Channel CMOS	28-SOIC	14.21	11.96	10.99
MPC507AP	MPC507AP-ND	Single Ended 16-Ch./Diff. 8-Channel CMOS	28-Dip	11.92	10.03	9.22
MPC507AU	MPC507AU-ND	Single Ended 16-Ch./Diff. 8-Channel CMOS	28-SOIC	14.21	11.96	10.99
MPC508AP	MPC508AP-ND	8-Channel/4-Channel CMOS Analog Multiplexer	16-Dip	6.65	5.46	4.93
MPC508AU	MPC508AU-ND	Single Ended 16-Channel/Diff. 8-Channel CMOS	16-SOIC	7.95	6.52	5.89
MPC509AP	MPC509AP-ND	Single Ended 8-Channel/Diff. 4-Channel CMOS	16-Dip	6.65	5.46	4.93
MPC509AU	MPC509AU-ND	Single Ended 8-Channel/Diff. 4-Channel CMOS	16-SOIC	8.80	7.22	6.52
MPY634KP	MPY634KP-ND	Wideband Precision Analog Multiplier	14-Dip	23.50	19.98	18.51
MPY634KU	MPY634KU-ND	Wideband Precision Analog Multiplier	16-SOIC	30.30	25.76	23.87

OPTICAL SENSORS

TEXAS INSTRUMENTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPT101P-J	OPT101P-J-ND	Mono Photodiode Transimpedance Amp	8-SMD	6.88	5.64	5.09
OPT301M	OPT301M-ND	Integrated Photodiode and Amplifier	TO-99-8	66.33	58.53	55.61

POWER CONTROL/ MANAGEMENT PRODUCTS

TEXAS INSTRUMENTS Digi-Reel®

RoHS Compliant Parts Available

CCFL Drivers

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC2972N	296-2256-5-ND	CCFL Driver Controller	8-Dip	10.00	8.20	7.40
UCC2973PW	296-13533-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	9.00	7.38	6.66
UCC3972N	296-6764-5-ND	BiCMOS CCFL Driver Controller	8-Dip	10.00	8.20	7.40
UCC3972PW	296-2257-5-ND	CCFL Driver Controller	8-TSSOP	10.00	8.20	7.40
UCC3973PW	296-6765-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	9.00	7.38	6.66
UCC3975PW	296-12613-5-ND	Multi-Topology Piezo Transformer Cont.	8-TSSOP	8.40	6.89	6.22
UCC3976PW	296-12614-5-ND	Multi-Topology Piezo Transformer Cont.	8-TSSOP	8.40	6.89	6.22

Hot Plug

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HPC3130APBK	296-9510-ND	Hot Plug Controller	128-LQFP	23.34	19.84	18.39
HPC3130APGE	296-9512-ND	Hot Plug Controller	144-LQFP	23.34	19.84	18.39
TPS2340APFP	296-15639-ND	Dual Slot PCI Hot Plug Power Controller	80-HTQFP	19.47	16.38	15.05
TPS2342PFP	296-17347-ND	Dual Slot PCI-X 2.0 Hot Plug Power Cont.	80-HTQFP	18.48	15.54	14.28
TPS2343DDP	296-18062-5-ND	Dual Slot PCI-X 2.0 Hot Plug Power Cont.	80-HTSSOP	19.80	16.65	15.30

Hot-Swap

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2300IPW	296-2319-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	5.32	4.28	3.90
TPS2301EVM-153	296-10884-ND	Evaluation Module for TPS2301	—	50.00	—	—
TPS2301IPW	296-2320-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	5.32	4.28	3.90
TPS2310IPW	296-2321-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	5.32	4.28	3.90
TPS2311IPW	296-2322-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	5.32	4.28	3.90
TPS2320ID	296-6766-5-ND	Dual Hot-Swap Power Controller	16-SOIC	4.48	3.60	3.28
TPS2320IPW	296-2323-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	4.48	3.60	3.28
TPS2321ID	296-6767-5-ND	Dual Hot-Swap Power Controller	16-SOIC	4.48	3.60	3.28
TPS2321IPW	296-2324-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	4.48	3.60	3.28
TPS2330EVM-184	296-12356-ND	Evaluation Module for TPS2330-184	—	101.00	—	—
TPS2330EVM-185	296-12357-ND	Evaluation Module for TPS2330-185	—	101.00	—	—
TPS2330ID	296-6768-5-ND	Single Hot-Swap Power Controller	14-SOIC	4.06	3.27	2.98
TPS2330IPW	296-2325-5-ND	Hot-Swap Power Controller	14-TSSOP	4.06	3.27	2.98
TPS2331ID	296-6769-5-ND	Single Hot-Swap Power Controller	14-SOIC	4.06	3.27	2.98
TPS2331IPW	296-2326-5-ND	Hot-Swap Power Controller	14-TSSOP	4.06	3.27	2.98
TPS2331IPWR	296-26920-1-ND	Single Hot-Swap Power Controller* ***NEW!***	14-TSSOP	3.75	3.07	2.75
TPS2331IPWR	296-26920-2-ND	Single Hot-Swap Power Controller* ***NEW!***	14-TSSOP	3326.00/2,000		
TPS2350D	296-16959-5-ND	Hot-Swap Power Manager	14-SOIC	6.44	5.18	4.72
TPS2350PW	296-18941-5-ND	Hot-Swap Power Manager	14-TSSOP	6.44	5.18	4.72
TPS2358RGZT	296-23395-1-ND	Dual Slot ATCA AdvancedMC Controller	48-PQFN	12.19	10.12	9.20
TPS2358RGZT	296-23395-2-ND	Dual Slot ATCA AdvancedMC Controller	48-PQFN	1955.00/250		
TPS2359RHHR	296-25459-1-ND	Dual Slot Hot-Plug Controller* ***NEW!***	36-QFN	11.50	9.75	9.00
TPS2359RHHR	296-25459-2-ND	Dual Slot Hot-Plug Controller* ***NEW!***	36-QFN	15937.50/2,500		
TPS2359RHHT	296-23396-1-ND	Full Featured Dual Slot AdvancedMC Controller	36-PQFN	13.23	11.22	10.35
TPS2359RHHT	296-23396-2-ND	Full Featured Dual Slot AdvancedMC Controller	36-PQFN	2228.25/250		
TPS2390DGK	296-13511-5-ND	Simple Negative 48V Hot-Swap Cont.	8-MSOP	3.36	2.70	2.46
TPS2390EVM	296-20591-ND	Evaluation Module for TPS2390	—	50.00	—	—
TPS2391DGK	296-13512-5-ND	Simple Negative 48V Hot-Swap Cont.	8-MSOP	3.36	2.70	2.46
TPS2391EVM	296-20592-ND	Evaluation Module for TPS2391	—	50.00	—	—
TPS2392EVM	296-18942-ND	Evaluation Module for TPS2392	—	50.00	—	—
TPS2392PW	296-13668-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	6.02	4.84	4.41
TPS2393APW	296-17247-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	6.16	4.95	4.51
TPS2393DBT	296-17388-ND	Full Featured Negative 48V Hot-Swap Power Manager	44-TSSOP	6.02	4.84	4.41
TPS2393EVM	296-18943-ND	Evaluation Module for TPS2393	—	50.00	—	—
TPS2393PW	296-13669-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	6.02	4.84	4.41
TPS2398DGK	296-15731-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	3.86	3.11	2.83

* RoHS Compliant

(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.)
POWER CONTROL/
MANAGEMENT PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2398EVM	296-18944-ND	Evaluation Module for TPS2398	—	50.00	—	—
TPS2399DGK	296-15732-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	3.86	3.11	2.83
TPS2399EVM	296-18945-ND	Evaluation Module for TPS2399	—	50.00	—	—
TPS2410PW	296-21612-5-ND	Full Featured N+1 and OR-Ing Power Rail Controller	14-TSSOP	5.74	4.62	4.21
TPS2411PW	296-21613-5-ND	Full Featured N+1 and OR-Ing Power Rail Controller	14-TSSOP	5.74	4.62	4.21
TPS2412D	296-23785-5-ND	N+1 and OR-Ing Power Rail Controller	8-SOIC	4.06	3.27	2.98
TPS2412PW	296-21614-5-ND	N+1 and OR-Ing Power Rail Controller	8-TSSOP	4.06	3.27	2.98
TPS2413D	296-23786-5-ND	N+1 and OR-Ing Power Rail Controller	8-SOIC	4.06	3.27	2.98
TPS2413PW	296-21615-5-ND	N+1 and OR-Ing Power Rail Controller	8-TSSOP	4.06	3.27	2.98
TPS2420RSAR	296-24162-1-ND	3V to 20V Hot-Swap Controller*	16-QFN	5.85	4.78	4.29
TPS2420RSAR	296-24162-2-ND	3V to 20V Hot-Swap Controller*	16-QFN	7780.50/3,000		
TPS2420RSAT	296-24175-1-ND	3V to 20V Hot-Swap Controller* ***NEW!***	16-QFN	6.60	5.39	4.84
TPS2420RSAT	296-24175-2-ND	3V to 20V Hot-Swap Controller* ***NEW!***	16-QFN	1017.50/250		
TPS2421-1DDAR	296-24238-1-ND	3V to 20V Hot-Swap Controller* ***NEW!***	8-SOIC	4.80	3.92	3.52
TPS2421-1DDAR	296-24238-2-ND	3V to 20V Hot-Swap Controller* ***NEW!***	8-SOIC	5320.00/2,500		
TPS2421-2DDAR	296-24239-1-ND	3V to 20V Hot-Swap Controller* ***NEW!***	8-SOIC	4.80	3.92	3.52
TPS2421-2DDAR	296-24239-2-ND	3V to 20V Hot-Swap Controller* ***NEW!***	8-SOIC	5320.00/2,500		
TPS2458RHBT	296-24210-1-ND	3.3V Hot-Swap Controller* ***NEW!***	32-QFN	6.90	5.64	5.06
TPS2458RHBT	296-24210-2-ND	3.3V Hot-Swap Controller* ***NEW!***	32-QFN	1063.75/250		
TPS2459RHBT	296-24211-1-ND	3.3V Hot-Swap Controller w/I^2C* ***NEW!***	32-QFN	7.42	6.16	5.60
TPS2459RHBT	296-24211-2-ND	3.3V Hot-Swap Controller w/I^2C* ***NEW!***	32-QFN	1190.00/250		
TPS2490DGS	296-17085-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller	10-MSOP	4.76	3.83	3.49
TPS2490DGSR	296-26924-1-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller* ***NEW!***	10-MSOP	4.20	3.43	3.08
TPS2490DGSR	296-26924-2-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller* ***NEW!***	10-MSOP	4655.00/2,500		
TPS2490EVM-001	296-18946-ND	Evaluation Module for TPS2490-001	—	50.00	—	—
TPS2491DGS	296-16906-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller	10-MSOP	4.76	3.83	3.49
TPS2491DGSR	296-26925-1-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller* ***NEW!***	10-MSOP	4.20	3.43	3.08
TPS2491DGSR	296-26925-2-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller* ***NEW!***	10-MSOP	4655.00/2,500		
TPS2491EVM-002	296-18947-ND	Evaluation Module for TPS2491-002	—	50.00	—	—
TPS2590RSAT	296-24879-1-ND	3V to 20V Hot-Swap Power Manager* ***NEW!***	16-QFN	3.75	3.07	2.75
TPS2590RSAT	296-24879-2-ND	3V to 20V Hot-Swap Power Manager* ***NEW!***	16-QFN	578.25/250		
TPS23753APW	296-24928-5-ND	PoE Power Device/Current-Mode DC/DC Controller* ***NEW!***	14-TSSOP	4.90	3.94	3.59
TPS23756PWP	296-24573-5-ND	PoE Power Device/Current-Mode DC/DC Controller* ***NEW!***	20-HTSSOP	6.44	5.18	4.72
TPS23757EVM	296-25232-ND	Evaluation Module for TPS23757 ***NEW!***	—	50.00	—	—
TPS23757PW	296-24949-5-ND	PoE Power Device/Current-Mode DC/DC Controller* ***NEW!***	20-TSSOP	5.60	4.50	4.10
TPS54232EVM-415	296-24176-ND	Evaluation Module for TPS54232 ***NEW!***	—	39.50	—	—
UC2914DW	296-12245-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	13.20	11.10	10.20
UC2914N	296-2502-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	11.33	9.53	8.76
UC3914DW	296-11347-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	11.33	9.53	8.76
UC3914N	296-2327-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	10.75	8.82	7.96
UCC2912DP	296-16715-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	8.13	6.67	6.02
UCC2912PWP	296-16716-ND	Prog. Hot-Swap Power Manager	24-TSSOP	8.13	6.67	6.02
UCC2913D	296-2328-5-ND	Neg. Voltage Hot-Swap Power Manager	8-SOIC	5.46	4.39	4.00
UCC2913N	296-12247-5-ND	Neg. Voltage Hot-Swap Power Manager	8-Dip	4.62	3.72	3.39
UCC2915DP	296-2329-5-ND	15V Hot-Swap Prog. Power Manager	16-SOIC	11.00	9.25	8.50
UCC2917D	296-2330-5-ND	Pos. Floating Hot-Swap Power Manager	16-SOIC	6.50	5.33	4.81
UCC2917N	296-12249-5-ND	Pos. Floating Hot-Swap Power Manager	16-Dip	6.30	5.07	4.62
UCC2919D	296-2331-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	8.13	6.67	6.02
UCC2919PW	296-12251-5-ND	3V to 8V Hot-Swap Power Manager	16-TSSOP	8.13	6.67	6.02
UCC2921D	296-2332-5-ND	Latching Negative Floating Hot-Swap Power Manager	8-SOIC	6.02	4.84	4.41
UCC3912DP	296-2333-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	6.88	5.64	5.09
UCC3912PWP	296-12031-5-ND	Prog. Hot-Swap Power Manager	24-TSSOP	6.88	5.64	5.09
UCC3913D	296-2335-5-ND	Negative Volt. Hot-Swap Power Manager	8-SOIC	5.04	4.05	3.69
UCC3913N	296-6770-5-ND	Negative Volt. Hot-Swap Power Manager	8-Dip	4.20	3.38	3.08
UCC3915DP	296-2336-5-ND	15V Prog. Hot-Swap Power Manager	16-SOIC	7.63	6.26	5.65
UCC3915N	296-6771-5-ND	7-15V Prog. Hot-Swap Power Manager	16-Dip	6.38	5.23	4.72
UCC3915PWP	296-6772-5-ND	7-15V Prog. Hot-Swap Power Manager	24-HTSSOP	7.63	6.26	5.65
UCC3917D	296-2337-5-ND	Positive Floating Hot-Swap Pwr Manager	16-SOIC	6.30	5.07	4.62
UCC3917EVM	296-13599-ND	Evaluation Module for UCC3917	—	50.00	—	—
UCC3917N	296-6774-5-ND	Positive Floating Hot-Swap Pwr Manager	16-Dip	5.18	4.17	3.80
UCC3918DP	296-2338-5-ND	Low On-Res. Hot-Swap Power Manager	16-SOIC	7.00	5.74	5.18
UCC3918EVM	296-13600-ND	Evaluation Module for UCC3918	—	50.00	—	—
UCC3919D	296-2339-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	7.00	5.74	5.18
UCC3919PW	296-6777-5-ND	Single Hot-Swap Power Controller	16-TSSOP	7.00	5.74	5.18
UCC3921D	296-2340-5-ND	Neg. Floating Hot-Swap Power Manager	8-SOIC	5.46	4.39	4.00
UCC3921N	296-6779-5-ND	Negative Latchable Floating Hot-Swap Power Manager	8-Dip	4.48	3.60	3.28
Lighting and Display						
TPS60230EVM-047	296-18968-ND	Evaluation Module for TPS60230-047	—	50.00	—	—
TPS60230RGTR	296-27003-1-ND	White LED Backlight Driver* ***NEW!***	16-QFN	1.75	1.35	1.23
TPS60230RGTR	296-27003-2-ND	White LED Backlight Driver* ***NEW!***	16-QFN	2025.00/3,000		
TPS60230RGTT	296-17136-1-ND	White LED Backlight Driver	16-QFN	2.07	1.60	1.45
TPS60230RGTT	296-17136-2-ND	White LED Backlight Driver	16-QFN	295.00/250		
TPS60231EVM-047	296-17608-ND	Evaluation Module for TPS60231	—	50.00	—	—
TPS60231RGTR	296-17490-1-ND	White LED Backlight Driver	16-QFN	1.37	1.08	.98
TPS60231RGTR	296-17490-2-ND	White LED Backlight Driver	16-QFN	1512.00/3,000		
TPS60250RTER	296-21893-1-ND	White LED Backlight Driver	16-QFN	3.99	3.26	2.93
TPS60250RTER	296-21893-2-ND	White LED Backlight Driver	16-QFN	5306.70/3,000		
TPS60251RTWT	296-21894-1-ND	White LED Backlight Driver	24-QFN	3.15	2.58	2.31
TPS60251RTWT	296-21894-2-ND	White LED Backlight Driver	24-QFN	485.75/250		
TPS60252RTET	296-23407-1-ND	White LED Backlight Driver	16-QFN	3.15	2.58	2.31
TPS60252RTET	296-23407-2-ND	White LED Backlight Driver	16-QFN	485.75/250		
TPS61040DBVR	296-12685-1-ND	White LED Backlight Driver	SOT23-5	2.21	1.71	1.55
TPS61040DBVR	296-12685-2-ND	White LED Backlight Driver	SOT23-5	2553.00/3,000		
TPS61040DRVR	296-22980-1-ND	White LED Backlight Driver	6-SON	2.21	1.71	1.55
TPS61040DRVR	296-22980-2-ND	White LED Backlight Driver	6-SON	2553.00/3,000		
TPS61040EVM-001	296-13585-ND	Evaluation Module for TPS61040	—	50.00	—	—
TPS61040EVM-002	296-20609-ND	Evaluation Module for TPS61040	—	50.00	—	—
TPS61040QDBVRQ1	296-23425-1-ND	White LED Backlight Driver	SOT23-5	2.66	2.06	1.87
TPS61040QDBVRQ1	296-23425-2-ND	White LED Backlight Driver	SOT23-5	3078.00/3,000		
TPS61041DBVR	296-12686-1-ND	White LED Backlight Driver	SOT23-5	2.07	1.60	1.45
TPS61041DBVR	296-12686-2-ND	White LED Backlight Driver	SOT23-5	2391.00/3,000		
TPS61041DRVR	296-22981-1-ND	White LED Backlight Driver	6-SON	2.07	1.60	1.45
TPS61041DRVR	296-22981-2-ND	White LED Backlight Driver	6-SON	2391.00/3,000		
TPS61041QDBVRQ1	296-21895-1-ND	White LED Backlight Driver	SOT23-5	2.49	1.92	1.74
TPS61041QDBVRQ1	296-21895-2-ND	White LED Backlight Driver	SOT23-5	2877.00/3,000		
TPS61042DRBR	296-14449-1-ND	White LED Backlight Driver	8-SON	2.49	1.92	1.74
TPS61042DRBR	296-14449-2-ND	White LED Backlight Driver	8-SON	2877.00/3,000		
TPS61042EVM-226	296-20610-ND	Evaluation Module for TPS61042	—	50.00	—	—
TPS61043DRBR	296-16675-1-ND	White LED Backlight Driver	8-SON	2.49	1.92	1.74
TPS61043DRBT	296-27009-1-ND	White LED Backlight Driver* ***NEW!***	8-SON	2.80	2.16	1.96
TPS61043DRBT	296-27009-2-ND	White LED Backlight Driver* ***NEW!***	8-SON	400.00/250		
TPS61043DRBR	296-16675-2-ND	White LED Backlight Driver	8-SON	2877.00/3,000		
TPS61050DRCT	296-21681-1-ND	Photo Flash LED Driver	10-SON	3.45	2.82	2.53
TPS61050DRCT	296-21681-2-ND	Photo Flash LED Driver	10-SON	532.00/250		
TPS61050YZGT	296-21682-1-ND	Photo Flash LED Driver	12-DSBGA	3.60	2.94	2.64
TPS61050YZGT	296-21682-2-ND	Photo Flash LED Driver	12-DSBGA	555.00/250		
TPS61052DRCT	296-23720-1-ND	Photo Flash LED Driver	10-SON	3.45	2.82	2.53
TPS61052DRCT	296-23720-2-ND	Photo Flash LED Driver	10-SON	532.00/250		
TPS61052YZGR	296-21896-1-ND	Photo Flash LED Driver	12-DSBGA	3.15	2.58	2.31
TPS61052YZGR	296-21896-2-ND	Photo Flash LED Driver	12-DSBGA	4191.00/3,000		
TPS61052YZGT	296-21897-1-ND	Photo Flash LED Driver	12-DSBGA	3.60	2.94	2.64
TPS61052YZGT	296-21897-2-ND	Photo Flash LED Driver	12-DSBGA	555.00/250		
TPS61054DRCT	296-23434-1-ND	White LED Backlight Driver	10-SON	3.15	2.58	2.31
TPS61054DRCT	296-23434-2-ND	White LED Backlight Driver	10-SON	485.75/250		
TPS61055DRCT	296-23435-1-ND	White LED Backlight Driver	10-SON	3.00	2.45	2.20
TPS61055DRCT	296-23435-2-ND	White LED Backlight Driver	10-SON	462.50/250		
TPS61058DRCR	296-18728-1-ND	Photo Flash LED Driver	10-SON	2.80	2.16	1.96
TPS61058DRCR	296-18728-2-ND	Photo Flash LED Driver	10-SON	3240.00/3,000		
TPS61059DRCT	296-19426-1-ND	Photo Flash LED Driver	10-SON	3.00	2.45	2.20
TPS61059DRCT	296-19426-2-ND	Photo Flash LED Driver	10-SON	462.50/250		
TPS61059EVM-141	296-19609-ND	Evaluation Module for TPS61059	—	50.00	—	—
TPS61060DRBR	296-17500-1-ND	White LED Backlight Driver	8-SON	2.98	2.30	2.09
TPS61060DRBR	296-17500-2-ND	White LED Backlight Driver	8-SON	3444.00/3,000		
TPS61060YZFR	296-19296-1-ND	White LED Backlight Driver	8-DSBGA	3.33	2.57	2.33
TPS61060YZFR	296-19296-2-ND	White LED Backlight Driver	8-DSBGA	3849.00/3,000		
TPS61060YZFT	296-17745-1-ND	White LED Backlight Driver	8-DSBGA	3.15	2.58	2.31
TPS61060YZFT	296-17745-2-ND	White LED Backlight Driver	8-DSBGA	485.75/250		
TPS61061DRBR	296-17499-1-ND	White LED Backlight Driver	8-SON	3.15	2.43	2.21
TPS61061DRBR	296-17499-2-ND	White LED Backlight Driver	8-SON	3645.00/3,000		
TPS61061EVM-091	296-17517-ND	Evaluation Module for TPS61061-091	—	50.00	—	—
TPS61061YZFT	296-17746-1-ND	White LED Backlight Driver	8-DSBGA	3.45	2.82	2.53
TPS61061YZFT	296-17746-2-ND	White LED Backlight Driver	8-DSBGA	532.00/250		
TPS61062DRBR	296-17502-1-ND	White LED Backlight Driver	8-SON	3.00	2.45	2.20
TPS61062DRBR	296-17502-2-ND	White LED Backlight Driver	8-SON	3990.00/3,000		
TPS61062YZFT	296-17747-1-ND	White LED Backlight Driver	8-DSBGA	3.75	3.07	2.75
TPS61062YZFT	296-17747-2-ND	White LED Backlight Driver	8-DSBGA	578.25/250		
TPS61080DRCR	296-27010-1-ND	White OLED LED Backlight Driver* ***NEW!***	10-SON	4.05	3.31	2.97
TPS61080DRCR	296-27010-2-ND	White OLED LED Backlight Driver* ***NEW!***	10-SON	5388.00/3,000		
TPS61080DRCT	296-21555-1-ND	White OLED LED Backlight Driver	10-SON	4.65	3.80	3.41
TPS61080DRCT	296-21555-2-ND	White OLED LED Backlight Driver	10-SON	717.00/250		
TPS61081DRCT	296-21556-1-ND	White OLED LED Backlight Driver	10-SON	5.10	4.17	3.74
TPS61081DRCT	296-21556-2-ND	White OLED LED Backlight Driver	10-SON	786.25/250		
TPS61140DRCR	296-21159-1-ND	White OLED LED Backlight Driver	10-SON	3.60	2.94	2.64
TPS61140DRCR	296-21159-2-ND	White OLED LED Backlight Driver	10-SON	4788.00/3,000		
TPS61140DRCT	296-24145-1-ND	White OLED LED Backlight Driver	10-SON	4.05	3.31	2.97
TPS61140DRCT	296-24145-2-ND	White OLED LED Backlight Driver	10-SON	624.50/250		
TPS61140EVM-157	296-19744-ND	Evaluation Module for TPS61140	—	50.00	—	—
TPS61141DRCR	296-21160-1-ND	White OLED LED Backlight Driver	10-SON	3.60	2.94	2.64
TPS61141DRCR	296-21160-2-ND	White OLED LED Backlight Driver	10-SON	4788.00/3,000		
TPS61150ADRCR	296-21273-1-ND	White OLED LED Backlight Driver	10-SON	3.60	2.94	2.64
TPS61150ADRCR	296-21273-2-ND	White OLED LED Backlight Driver	10-SON	4788.00/3,000		
TPS61150DRCR	296-21161-1-ND	White OLED LED Backlight Driver	10-SON	3.60	2.94	2.64
TPS61150DRCR	296-21161-2-ND	White OLED LED Backlight Driver	10-SON	4788.00/3,000		
TPS61150EVM-150	296-19745-ND	Evaluation Module for TPS61150	—	50.00	—	—
TPS61151DRCR	296-21162-1-ND	White OLED LED Backlight Driver	10-SON	3.45	2.82	2.53
TPS61151DRCR	296-21162-2-ND	White OLED LED Backlight Driver	10-SON	4588.50/3,000		
TPS61160ADRVR	296-24308-1-ND	White LED Backlight Driver* ***NEW!***	6-SON	2.63	2.03	1.84
TPS61160ADRVR	296-24308-2-ND	White LED Backlight Driver* ***NEW!***	6-SON	3037.50/3,000		
TPS61161ADRVR	296-24512-1-ND	White LED Backlight Driver* ***NEW!***	6-SON	2.80	2.16	1.96
TPS61161ADRVR	296-24512-2-ND	White LED Backlight Driver* ***NEW!***	6-SON	3240.00/3,000		
TPS61161DRVT	296-27014-1-ND	White LED Backlight Driver* ***NEW!***	6-SON	3.15	2.43	2.21
TPS61161DRVT	296-27014-2-ND	White LED Backlight Driver* ***NEW!***	6-SON	450.00/250		
TPS61161QDRVRQ1	296-25235-1-ND	White LED Backlight Driver* ***NEW!***	6-SON	3.15	2.43	2.21
TPS61161QDRVRQ1	296-25235-2-ND	White LED Backlight Driver* ***NEW!***	6-SON	3645.00/3,000		
TPS61166DSKT	296-25246-1-ND	White LED Backlight Driver* ***NEW!***	10-SON	4.65	3.80	3.41
TPS61166DSKT	296-25246-2-ND	White LED Backlight Driver* ***NEW!***	10-SON	717.00250		
TPS61180RTER	296-23377-1-ND	White LED Backlight Driver	16-QFN	4.95	4.05	3.63
TPS61180RTER	296-23377-2-ND	White LED Backlight Driver	16-QFN	6585.00/3,000		
TPS61181RTER	296-23378-1-ND	White LED Backlight Driver	16-QFN	4.95	4.05	3.63
TPS61181RTER	296-23378-2-ND	White LED Backlight Driver	16-QFN	6585.00/3,000		
TPS61182RTER	296-23379-1-ND	White LED Backlight Driver	16-QFN	4.95	4.05	3.63
TPS61182RTER	296-23379-2-ND	White LED Backlight Driver	16-QFN	6585.00/3,000		
TPS65163RGZR	296-25464-1-ND	LCD Bias Supply* ***NEW!***	48-QFN	6.03	4.93	4.43
TPS65163RGZR	296-25464-2-ND	LCD Bias Supply* ***NEW!***	48-QFN	6682.50/2,500		
TPS65170RHDT	296-25311-1-ND	LCD Bias Supply* ***NEW!***	28-QFN	4.23	3.46	3.11
TPS65170RHDT	296-25311-2-ND	LCD Bias Supply* ***NEW!***	28-QFN	652.25/250		
TPS65171RHAR	296-25312-1-ND	Compact LCD Bias Supply for TFT-LCD TV Panels* ***NEW!***	40-QFN	4.65	3.80	3.41
TPS65171RHAR	296-25312-2-ND	Compact LCD Bias Supply for TFT-LCD TV Panels* ***NEW!***	40-QFN	5153.75/2,500		
TPS6555XEVM-097	296-21168-ND	Evaluation Module for TPS6555X	—	50.00	—	—
TPS65552ADGQR	296-19363-1-ND	Integrated Photo Flash Charger and IGBT Driver	10-MSOP	3.75	3.07	2.75
TPS65552ADGQR	296-19363-2-ND	Integrated Photo Flash Charger and IGBT Driver	10-MSOP	4156.25/2,500		
TPS65552ARGTR	296-19364-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3.75	3.07	2.75
TPS65552ARGTR	296-19364-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	4987.50/3,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS65560RGTR	296-19478-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2.98	2.30	2.09
TPS65560RGTR	296-19478-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3442.50/3,000		
TPS65561RGTR	296-21618-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3.33	2.57	2.33
TPS65561RGTR	296-21618-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3847.50/3,000		
TPS65562RGTR	296-22478-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3.33	2.57	2.33
TPS65562RGTR	296-22478-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3847.50/3,000		
TPS65563ARGTR	296-23687-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2.45	1.89	1.72
TPS65563ARGTR	296-23687-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2835.00/3,000		
TPS65573DSST	296-24309-1-ND	Integrated Photo Flash Charger and IGBT Driver* ***NEW!***	12-SON	2.28	1.76	1.60
TPS65573DSST	296-24309-2-ND	Integrated Photo Flash Charger and IGBT Driver* ***NEW!***	12-SON	325.00/250		
UCC28810D	296-27162-5-ND	LED Lighting Power Controller* ***NEW!***	8-SOIC	1.34	1.08	.94
		Peripheral				
DRV8402DKD	296-24082-5-ND	Dual Full Bridge PWM Motor Driver	36-HSSOP	17.16	14.43	13.26
DRV8412DDWR	296-25561-1-ND	Dual Full Bridge PWM Motor Driver* ***NEW!***	44-HTSSOP	10.20	8.47	7.70
DRV8412DDWR	296-25561-2-ND	Dual Full Bridge PWM Motor Driver* ***NEW!***	44-HTSSOP	10010.00/2,000		
DRV8800PWPR	296-25377-1-ND	DMOS Full Bridge Motor Driver* ***NEW!***	16-HTSSOP	3.75	3.07	2.75
DRV8800PWPR	296-25377-2-ND	DMOS Full Bridge Motor Driver* ***NEW!***	16-HTSSOP	3325.00/2,000		
DRV8800RTYR	296-23637-1-ND	DMOS Full Bridge Motor Driver	16-QFN	3.75	3.07	2.75
DRV8801PWPR	296-25378-1-ND	DMOS Full Bridge Motor Driver* ***NEW!***	16-HTSSOP	3.75	3.07	2.75
DRV8801PWPR	296-25378-2-ND	DMOS Full Bridge Motor Driver* ***NEW!***	16-HTSSOP	3325.00/2,000		
DRV8801RTYR	296-23638-1-ND	DMOS Full Bridge Motor Driver	16-QFN	3.75	3.07	2.75
DRV8808DCAR	296-25787-1-ND	Combination Motor Driver with DC/DC Converter* ***NEW!***	48-HTSSOP	15.41	13.07	12.06
DRV8808DCAR	296-25787-2-ND	Combination Motor Driver with DC/DC Converter* ***NEW!***	48-HTSSOP	17086.00/2,000		
DRV8809PAP	296-23639-ND	Combination Motor Driver with DC/DC Converter	64-HTQFP	11.88	9.99	9.18
DRV8810PAP	296-23718-ND	Combination Motor Driver with DC/DC Converter	64-HTQFP	11.88	9.99	9.18
DRV8811PWP	296-25379-5-ND	Stepper Motor Controller* ***NEW!***	28-HTSSOP	6.16	4.95	4.51
DRV8811PWPR	296-24591-1-ND	Stepper Motor Controller* ***NEW!***	28-HTSSOP	5.40	4.41	3.96
DRV8811PWPR	296-24591-2-ND	Stepper Motor Controller* ***NEW!***	28-HTSSOP	4788.00/2,000		
DRV8821DCA	296-25167-5-ND	Dual Stepper Motor Controller/ Driver* ***NEW!***	48-HTSSOP	6.72	5.40	4.92
DRV8823DCA	296-25353-5-ND	4-Bridge Serial PWM Motor Driver* ***NEW!***	48-HTSSOP	6.72	5.40	4.92
TMP814PWR	296-25407-1-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	20-TSSOP	.95	.75	.68
TMP814PWR	296-25407-2-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	20-TSSOP	700.00/2,000		
TMP815PWR	296-25408-1-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	16-TSSOP	.95	.75	.68
TMP815PWR	296-25408-2-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	16-TSSOP	700.00/2,000		
TMP816PWR	296-25409-1-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	20-TSSOP	.99	.78	.71
TMP816PWR	296-25409-2-ND	Full-Wave Fan Motor Pre-Driver* ***NEW!***	20-TSSOP	728.00/2,000		
TPS2363PFB	296-19556-ND	PCIExpress Server Dual Slot Hot Plug Controller	48-TQFP	6.83	5.60	5.06
TPS2370D	296-15039-5-ND	Power Interface Switch	8-SOIC	5.71	4.59	4.19
TPS2370PW	296-15040-5-ND	Power Interface Switch	8-TSSOP	5.71	4.59	4.19
TPS2371D	296-15960-5-ND	Power Interface Switch for PoE	8-SOIC	5.71	4.59	4.19
TPS2371PW	296-15961-5-ND	Power Interface Switch for PoE	8-TSSOP	5.71	4.59	4.19
TPS2375D	296-17061-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	3.36	2.70	2.46
TPS2375EVM	296-17039-ND	PoE Powered Device Evaluation Module	—	50.00	—	—
TPS2375PW	296-17062-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	3.36	2.70	2.46
TPS2375PW-1	296-17903-5-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	3.36	2.70	2.46
TPS2376D	296-17063-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	3.36	2.70	2.46
TPS2376DDA-H	296-20785-5-ND	IEEE 802.3af PoE Powered Controller	8-HSOIC	4.20	3.38	3.08
TPS2376PW	296-17064-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	3.36	2.70	2.46
TPS2377D	296-17065-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	3.36	2.70	2.46
TPS2377D-1	296-17904-5-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	3.36	2.70	2.46
TPS2377PW	296-17066-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	3.36	2.70	2.46
TPS2384EVM	296-21149-ND	Evaluation Module for TPS2384	—	152.00	—	—
TPS2384EVM-152	296-21150-ND	Evaluation Module for TPS2384	—	305.00	—	—
TPS2384PAP	296-17831-ND	Quad Integrated Power Sourcing Equipment Power Manager	64-HTQFP	12.54	10.55	9.69
TPS2384PJD	296-19557-ND	Quad Integrated Power Sourcing Equipment Power Manager	64-HTQFP	12.54	10.55	9.69
TPS23750EVM-107	296-21146-ND	Evaluation Module for TPS23750	—	50.00	—	—
TPS23750EVM-108	296-21147-ND	Evaluation Module for TPS23750	—	50.00	—	—
TPS23750PWPR	296-18669-1-ND	100V, IEEE 802.3af PD and DC/DC Cont.	20-HTSSOP	4.50	3.68	3.30
TPS23750PWPR	296-18669-2-ND	100V, IEEE 802.3af PD and DC/DC Cont.	20-HTSSOP	3990.00/2,000		
TPS23753PW	296-23547-5-ND	IEEE 802.3-2005 PoE Interface and Isolated Converter Controller	14-TSSOP	4.90	3.94	3.59
TPS23754PWP	296-24369-5-ND	IEEE 802.3at PoE Interface and DC/DC Controller* ***NEW!***	20-HTSSOP	6.44	5.18	4.72
TPS23754PWP-1	296-24370-5-ND	IEEE 802.3at PoE Interface and DC/DC Controller* ***NEW!***	20-HTSSOP	6.44	5.18	4.72
TPS23770PWPR	296-21148-1-ND	100V, Integrated IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	4.50	3.68	3.30
TPS23770PWPR	296-21148-2-ND	100V, Integrated IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3990.00/2,000		
TPS65136RTER	296-23398-1-ND	Single Inductor, Multiple Output Regulator for AMOLED	16-QFN	3.60	2.94	2.64
TPS65136RTER	296-23398-2-ND	Single Inductor, Multiple Output Regulator for AMOLED	16-QFN	4788.00/3,000		
TPS65160APWPR	296-18305-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	4.35	3.56	3.19
TPS65160APWPR	296-18305-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	3858.00/2,000		
TPS65160PWPR	296-17905-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	5.25	4.29	3.85
TPS65160PWPR	296-17905-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	4656.00/2,000		
TPS65161APWPR	296-22678-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	4.80	3.92	3.52
TPS65161APWPR	296-22678-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	4256.00/2,000		
TPS65161BPWPR	296-23845-1-ND	Bias Power Supply	28-HTSSOP	4.80	3.92	3.52
TPS65161BPWPR	296-23845-2-ND	Bias Power Supply	28-HTSSOP	4256.00/2,000		
TPS65161PWPR	296-19673-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	4.20	3.43	3.08
TPS65161PWPR	296-19673-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-HTSSOP	3724.00/2,000		
TPS65165RSBR	296-21429-1-ND	Compact LCD Bias IC	40-QFN	5.40	4.41	3.96
TPS65165RSBR	296-21429-2-ND	Compact LCD Bias IC	40-QFN	7182.00/3,000		
TPS65166RHAR	296-25184-1-ND	Compact LCD Bias Supply for TFT-LCD TV Panels* ***NEW!***	40-QFN	4.65	3.80	3.41
TPS65166RHAR	296-25184-2-ND	Compact LCD Bias Supply for TFT-LCD TV Panels* ***NEW!***	40-QFN	5153.75/2,500		
TPS65167ARHAR	296-22946-1-ND	Compact LCD Bias Supply for TFT-LCD TV Panels	40-QFN	6.30	5.15	4.62
TPS65167ARHAR	296-22946-2-ND	Compact LCD Bias Supply for TFT-LCD TV Panels	40-QFN	6982.50/2,500		
TPS65190RHDR	296-25185-1-ND	10-Channel Level Shifter for LCD Applications* ***NEW!***	28-QFN	3.00	2.45	2.20
TPS65190RHDR	296-25185-2-ND	10-Channel Level Shifter for LCD Applications* ***NEW!***	28-QFN	3990.00/3,000		
TPS65192RHDR	296-24871-1-ND	9-Channel Level Shifter for LCD Applications* ***NEW!***	28-QFN	4.20	3.43	3.08
TPS65192RHDR	296-24871-2-ND	9-Channel Level Shifter for LCD Applications* ***NEW!***	28-QFN	5586.00/3,000		
TPS65520ZVDR	296-18342-1-ND	Power Mgmt. IC for Digital Still Camera	113-NFBGA	13.12	10.89	9.90
TPS65520ZVDR	296-18342-2-ND	Power Mgmt. IC for Digital Still Camera	113-NFBGA	16087.50/2,500		
TPS65920BZCH	296-24229-ND	Integrated Power Management/ Audio CODEC* ***NEW!***	139-NFBGA	11.25	9.23	8.33
TPS65930BZCH	296-24291-ND	Integrated Power Management/Audio CODEC* ***NEW!***	139-NFBGA	9.88	8.10	7.31
TPS65950BZXN	296-24015-ND	Integrated Pwr. Mgmt/ Audio CODEC	209-BGA	11.25	9.23	8.33
TPS65950BZXNR	296-24096-1-ND	Integrated Pwr. Mgmt/ Audio CODEC	209-BGA	11.93	9.90	9.00
TPS65950BZXNR	296-24096-2-ND	Integrated Pwr. Mgmt/ Audio CODEC	209-BGA	11700.00/2,000		
TPS75003EVM-092	296-21171-ND	Evaluation Module for TPS75003	—	25.50	—	—
TPS75003MRHLREP	296-22499-1-ND	Triple Supply Power Management IC	20-QFN	10.07	8.36	7.60
TPS75003MRHLREP	296-22499-2-ND	Triple Supply Power Management IC	20-QFN	14820.00/3,000		
TPS75003RHLR	296-17835-1-ND	Triple Supply Power Management IC	20-QFN	5.70	4.66	4.18
TPS75003RHLR	296-17835-2-ND	Triple Supply Power Management IC	20-QFN	7581.00/3,000		
TPS75003RHLT	296-19438-1-ND	Triple Supply Power Mgmt. IC	20-QFN	6.60	5.39	4.84
TPS75003RHLT	296-19438-2-ND	Triple Supply Power Mgmt. IC	20-QFN	1017.50/250		
UC5601DWP	296-27155-5-ND	18-Line 5V SE Terminator for SCSI and Fast SCSI* ***NEW!***	28-SOIC	11.28	9.25	8.35
UC5601QP	296-11357-5-ND	18-Line 5V SE Terminator for SCSI and Fast SCSI	28-PLCC	11.88	9.74	8.79
UC5603DP	296-11359-5-ND	9-Line 5V SE Terminator for SCSI and Fast SCSI	16-SOIC	6.78	5.56	5.02
UCC3916DP	296-2255-5-ND	SCSI Termpower Manager	8-SOIC	5.74	4.62	4.21
UCC5510MWP	296-6730-5-ND	9-Line SCSI Multi Terminator	36-SOP	5.07	4.08	3.72
UCC5606DP	296-6731-5-ND	9-Line 3V-5V SCSI SE Terminator	16-SOIC	4.54	3.65	3.33
UCC5606PWP	296-6732-5-ND	9-Line 3V-5V SCSI SE Terminator	16-HTSSOP	4.54	3.65	3.33
UCC5614DP	296-6735-5-ND	9-Line 3V-5V SCSI SE Terminator	16-SOIC	4.54	3.65	3.33
UCC5614PWP	296-6736-5-ND	9-Line 3V-5V SCSI SE Terminator	24-HTSSOP	4.54	3.65	3.33
UCC5617DWP	296-6737-5-ND	18-Line 3V-5V SCSI SE Terminator	28-SOIC	6.30	5.17	4.67
UCC5618DWP	296-6738-5-ND	18-Line 3V-5V SCSI SE Terminator	28-SOIC	6.30	5.17	4.67
UCC5618QP	296-6739-5-ND	18-Line 3V-5V SCSI SE Terminator	28-PLCC	6.90	5.66	5.11
UCC5619MWP	296-6740-5-ND	27-Line 5V SE Terminator for Fast/ Ultra SCSI	36-SOP	8.55	7.02	6.33
UCC5620MWP	296-6743-5-ND	27-Line 5V SE Terminator	48-SOP	8.55	7.02	6.33
UCC5621MWP	296-6744-5-ND	27-Line 5V SE Terminator	44-SOP	8.55	7.02	6.33
UCC5622MWP	296-6746-5-ND	27-Line 5V SE Terminator for Fast/ Ultra SCSI	44-SOP	8.55	7.02	6.33
UCC5628FQP	296-6747-ND	14-Line 3V-5V SCSI Multi Terminator	48-LQFP	7.00	5.74	5.18
UCC5629FQP	296-6748-ND	14-Line 3V-5V SCSI Multi Terminator	48-LQFP	7.00	5.74	5.18
UCC5630AFQP	296-6749-ND	9-Line 3V-5V SCSI Multi Terminator	48-LQFP	7.13	5.85	5.28
UCC5630AMWP	296-6750-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	6.38	5.13	4.68
UCC5631AFQP	296-6751-ND	9-Line 3V-5V SCSI Multi Terminator	48-LQFP	6.92	5.56	5.07
UCC5631AMWP	296-6752-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	6.38	5.13	4.68
UCC5638EVM	296-13603-ND	Evaluation Module for UCC5638	—	49.38	—	—
UCC5638FQP	296-6753-ND	15-Line 3V-5V SCSI Multi Terminator	48-LQFP	7.00	5.74	5.18
UCC5639FQP	296-6754-ND	15-Line 3V-5V SCSI Multi Terminator	48-LQFP	7.00	5.74	5.18
UCC5640EVM	296-13604-ND	Evaluation Module for UCC5640	—	49.38	—	—
UCC5640PW24	296-6755-5-ND	9-Line 3V-5V LVD SCSI Terminator	24-TSSOP	4.54	3.65	3.33
UCC5640PW28	296-6756-5-ND	9-Line 3V-5V LVD SCSI Terminator	28-TSSOP	4.54	3.65	3.33
UCC5670MWP	296-12964-5-ND	9-Line Multimode SCSI Terminator	36-SSOP	4.93	3.96	3.61
UCC5672MWP	296-6760-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	6.38	5.13	4.68
UCC5672PWP	296-6761-5-ND	9-Line 3V-5V SCSI Multi Terminator	28-HTSSOP	6.38	5.13	4.68
UCC5673PWP	296-6763-5-ND	9-Line 3V-5V SCSI Multi Terminator	28-HTSSOP	6.38	5.13	4.68
UCC5680PW24	296-11565-5-ND	9-Line 3V-5V LVD Terminator for SCSI - Ultra3 SCSI	24-TSSOP	4.54	3.65	3.33
UCC5680PW28	296-11566-5-ND	9-Line 3V-5V LVD Terminator for SCSI - Ultra3 SCSI	28-TSSOP	4.54	3.65	3.33
UCC5686PM	296-11567-ND	27-Line 3V-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	9.98	8.18	7.39
UCC5687PM	296-11568-ND	27-Line 3V-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	8.33	6.83	6.17
		Power + Array				
TPIC44H01DA	296-1952-5-ND	4-Channel High-Side Driver	32-TSSOP	4.76	3.83	3.49
		Power + Logic				
TPIC6A259DW	296-9004-5-ND	Power Logic 8-Bit Addressable Latch	24-SOIC	4.12	3.31	3.02
TPIC6A259NE	296-9005-5-ND	Power Logic 8-Bit Addressable Latch	20-Dip	4.12	3.31	3.02
TPIC6A595DW	296-9006-5-ND	Power Logic 8-Bit Shift Register	24-SOIC	3.22	2.59	2.36
TPIC6A595DWG4	296-26894-5-ND	Power Logic 8-Bit Shift Register* ***NEW!***	24-SOIC	3.22	2.59	2.36
TPIC6A595NE	296-9007-5-ND	Power Logic 8-Bit Shift Register	20-Dip	3.36	2.70	2.46
TPIC6A596DW	296-9008-5-ND	Power Logic 8-Bit Shift Register	24-SOIC	3.22	2.59	2.36
TPIC6A596DWG4	296-26895-5-ND	Power Logic 8-Bit Shift Register* ***NEW!***	24-SOIC	3.22	2.59	2.36
TPIC6A596NE	296-9009-5-ND	Power Logic 8-Bit Shift Register	20-Dip	3.36	2.70	2.46
TPIC6B259DW	296-9010-5-ND	Power Logic 8-Bit Addressable Latch	20-SOIC	2.11	1.70	1.53
TPIC6B259N	296-9011-5-ND	Power Logic 8-Bit Addressable Latch	20-Dip	2.11	1.70	1.53
TPIC6B273DW	296-1350-5-ND	Power Logic Octal D-Type Switch	20-SOIC	2.11	1.70	1.53
TPIC6B273DWG4	296-26896-5-ND	Power Logic Octal D-Type Latch* ***NEW!***	20-SOIC	2.11	1.70	1.53
TPIC6B273DWR	296-1350-1-ND	Power Logic Octal D-Type Latch	20-SOIC	2.38	1.84	1.67
TPIC6B273DWR	296-1350-2-ND	Power Logic Octal D-Type Latch	20-SOIC	1836.00/2,000		
TPIC6B273DWRG4	296-26897-1-ND	Power Logic Octal D-Type Latch* ***NEW!***	20-SOIC	2.38	1.84	1.67
TPIC6B273DWRG4	296-26897-2-ND	Power Logic Octal D-Type Latch* ***NEW!***	20-SOIC	1836.00/2,000		
TPIC6B273N	296-9012-5-ND	Power Logic Octal D-Type Latch	20-Dip	2.11	1.70	1.53

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER CONTROL/ MANAGEMENT PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPIC6B595DW	296-1351-5-ND	Power Logic 8-Bit Shift Register	20-SOIC	1.47	1.18	1.03
TPIC6B595DWG4	296-19555-5-ND	Power Logic 8-Bit Shift Register	20-SOIC	1.47	1.18	1.03
TPIC6B595DWR	296-1351-1-ND	Power Logic 8-Bit Shift Register	20-SOIC	1.79	1.41	1.27
TPIC6B595DWR	296-1351-2-ND	Power Logic 8-Bit Shift Register	20-SOIC	1316.00/2,000		
TPIC6B595DWRG4	296-26898-1-ND	Power Logic 8-Bit Shift Register* ***NEW!***	20-SOIC	1.79	1.41	1.27
TPIC6B595DWRG4	296-26898-2-ND	Power Logic 8-Bit Shift Register* ***NEW!***	20-SOIC	1316.00/2,000		
TPIC6B595N	296-1956-5-ND	Power Logic 8-Bit Shift Register	20-Dip	1.65	1.32	1.16
TPIC6B596DW	296-9013-5-ND	Power Logic 8-Bit Shift Register	20-SOIC	1.47	1.18	1.03
TPIC6B596DWRG4	296-26899-1-ND	Power Logic 8-Bit Shift Register* ***NEW!***	20-SOIC	1.59	1.26	1.14
TPIC6B596DWRG4	296-26899-2-ND	Power Logic 8-Bit Shift Register* ***NEW!***	20-SOIC	1174.00/2,000		
TPIC6C595D	296-2019-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.30	1.04	.91
TPIC6C595DG4	296-26900-5-ND	Power Logic 8-Bit Shift Register* ***NEW!***	16-SOIC	1.30	1.04	.91
TPIC6C595DRG4	296-22064-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.48	1.17	1.06
TPIC6C595DRG4	296-22064-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1365.00/2,500		
TPIC6C595N	296-2020-5-ND	Power Logic 8-Bit Shift Register	16-Dip	1.37	1.10	.96
TPIC6C595PW	296-21143-5-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.30	1.04	.91
TPIC6C596D	296-9014-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.17	.94	.82
TPIC6C596DG4	296-26902-5-ND	Power Logic 8-Bit Shift Register* ***NEW!***	16-SOIC	1.17	.94	.82
TPIC6C596DR	296-19451-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.33	1.06	.95
TPIC6C596DR	296-19451-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1228.50/2,500		
TPIC6C596DRG4	296-22435-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.33	1.06	.95
TPIC6C596DRG4	296-22435-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1228.50/2,500		
TPIC6C596DRQ1	296-25546-1-ND	Power Logic 8-Bit Shift Register* ***NEW!***	16-SOIC	1.33	1.06	.95
TPIC6C596DRQ1	296-25546-2-ND	Power Logic 8-Bit Shift Register* ***NEW!***	16-SOIC	1227.50/2,500		
TPIC6C596N	296-9015-5-ND	Power Logic 8-Bit Shift Register	16-Dip	1.23	.99	.86
TPIC6C596PW	296-19605-5-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.17	.94	.82
TPIC43T01DA	296-10866-5-ND	Three-Phase Brushless Motor RPM Cont.	38-TSSOP	6.63	5.44	4.91
TPIC44L01DB	296-10867-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.48	2.00	1.80
TPIC44L02DB	296-10868-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.48	2.00	1.80
TPIC46L01DB	296-10869-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.80	2.25	2.05
TPIC46L02DB	296-10870-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.80	2.25	2.05
TPIC46L03DB	296-10871-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.80	2.25	2.05
TPIC1021AQDRQ1	296-22939-1-ND	LIN Physical Interface	8-SOIC	1.93	1.49	1.35
TPIC1021AQDRQ1	296-22939-2-ND	LIN Physical Interface	8-SOIC	1857.50/2,500		
TPIC1021DR	296-17542-1-ND	LIN Physical Interface	8-SOIC	1.93	1.49	1.35
TPIC1021DR	296-17542-2-ND	LIN Physical Interface	8-SOIC	1857.50/2,500		
TPIC1021DRG4	296-23797-1-ND	LIN Physical Interface	8-SOIC	1.93	1.49	1.35
TPIC1021DRG4	296-23797-2-ND	LIN Physical Interface	8-SOIC	1856.25/2,500		
TPIC2603DW	296-10863-5-ND	6-Ch. Serial Interface Low-Side Driver	24-SOIC	6.58	5.29	4.82
TPIC2603NE	296-10864-5-ND	6-Ch. Serial Interface Low-Side Driver	20-Dip	6.58	5.29	4.82
TPIC6259DW	296-9000-5-ND	Power Logic 8-Bit Addressable Latch	20-SOIC	3.36	2.70	2.46
TPIC6259DWG4	296-26891-5-ND	Power Logic 8-Bit Addressable Latch* ***NEW!***	20-SOIC	3.36	2.70	2.46
TPIC6259N	296-9001-5-ND	Power Logic 8-Bit Addressable Latch	20-Dip	3.36	2.70	2.46
TPIC6273DW	296-9002-5-ND	Power Logic Octal D-Type Latch	20-SOIC	3.36	2.70	2.46
TPIC6273DWG4	296-26892-5-ND	Power Logic Octal D-Type Latch* ***NEW!***	20-SOIC	3.36	2.70	2.46
TPIC6273N	296-1953-5-ND	Power Logic Octal D-Type Latch	20-Dip	3.36	2.70	2.46
TPIC6595DW	296-1349-5-ND	Power Logic 8-Bit Shift Register	20-SOIC	3.00	2.41	2.20
TPIC6595DWG4	296-26893-5-ND	Power Logic 8-Bit Shift Register* ***NEW!***	20-SOIC	3.00	2.41	2.20
TPIC6595DWR	296-1349-1-ND	Power Logic 8-Bit Shift Register	20-SOIC	3.33	2.72	2.45
TPIC6595DWR	296-1349-2-ND	Power Logic 8-Bit Shift Register	20-SOIC	2952.60/2,000		
TPIC6595N	296-1954-5-ND	Power Logic 8-Bit Shift Register	20-Dip	3.11	2.50	2.28
TPIC6596DW	296-9003-5-ND	Power Logic 8-Bit Shift Register	20-SOIC	3.00	2.41	2.20
TPIC9201N	296-19606-5-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-Dip	1.68	1.35	1.18
TPIC9202PWPR	296-21145-1-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1.82	1.44	1.30
TPIC9202PWPR	296-21145-2-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1344.00/2,000		
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	9.01	7.48	6.80
PGA309AIPWT	296-16726-2-ND	Smart Programmable Sensor	16-TSSOP	1445.00/250		
PGA309EVM-EU	296-18515-ND	Evaluation Module for PGA309-EU	—	203.00	—	—
PGA309EVM-US	296-18516-ND	Evaluation Module for PGA309-US	—	203.00	—	—
TL851CDR	296-18895-1-ND	Sonar Ranging Control	16-SOIC	5.76	4.71	4.23
TL851CDR	296-18895-2-ND	Sonar Ranging Control	16-SOIC	6384.00/2,500		
TL851CN	296-19329-5-ND	Sonar Ranging Control	16-Dip	6.36	5.11	4.66
TL852CDR	296-17139-1-ND	Sonar Ranging Receiver	16-SOIC	5.76	4.71	4.23
TL852CDR	296-17139-2-ND	Sonar Ranging Receiver	16-SOIC	6385.00/2,500		

TEXAS INSTRUMENTS DigiReel® SPECIALIZED INTEGRATED CIRCUITS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TCA8418RTWR	296-25223-1-ND	I2C Controlled Keypad Scan IC* ***NEW!***	24-QFN	3.60	2.94	2.64
TCA8418RTWR	296-25223-2-ND	I2C Controlled Keypad Scan IC* ***NEW!***	24-QFN	4788.00/3,000		
TL852CN	296-19330-5-ND	Sonar Ranging Receiver	16-Dip	6.36	5.11	4.66
TPIC8101DWR	296-15132-1-ND	Knock Sensor Interface	20-SOIC	7.44	6.08	5.46
TPIC8101DWR	296-15132-2-ND	Knock Sensor Interface	20-SOIC	6596.80/2,000		
TPIC8101DWRG4	296-24864-1-ND	Knock Sensor Interface* ***NEW!***	20-SOIC	7.44	6.08	5.46
TPIC8101DWRG4	296-24864-2-ND	Knock Sensor Interface* ***NEW!***	20-SOIC	6596.80/2,000		
TPIC83000IPWRQ1	296-25331-1-ND	Pressure Sensor Signal Conditioner* ***NEW!***	16-TSSOP	12.19	10.12	9.20
TPIC83000IPWRQ1	296-25331-2-ND	Pressure Sensor Signal Conditioner* ***NEW!***	16-TSSOP	11960.00/2,000		
UC2950T	296-13022-5-ND	Half-Bridge Bipolar Switch	TO-220-5	7.00	5.74	5.18
UC3717AN	296-11258-5-ND	Stepper Motor Drive Circuit	16-Dip	11.00	9.25	8.50
UC3770AN	296-11259-5-ND	HP Stepper Motor Drive Circuit	16-Dip	7.48	6.13	5.54
UC3770BN	296-11260-5-ND	HP Stepper Motor Drive Circuit	16-Dip	8.25	6.77	6.11
UC3871DW	296-11326-5-ND	Resonant Fluorescent Lamp Driver	18-SOIC	14.85	12.49	11.48
UC3871N	296-11327-5-ND	Resonant Fluorescent Lamp Driver	18-Dip	14.85	12.49	11.48
UC3872DW	296-11328-5-ND	Resonant Lamp Ballast Controller	16-SOIC	9.75	8.00	7.22
UC3872M	296-11329-5-ND	Resonant Lamp Ballast Controller	16-QSOP	9.75	8.00	7.22
UC3872N	296-11330-5-ND	Resonant Lamp Ballast Controller	20-Dip	9.00	7.38	6.66
UCC2305DW	296-13023-5-ND	HID Lamp Controller	28-SOIC	15.07	12.68	11.65
UCC2305N	296-13633-5-ND	HID Lamp Controller	28-Dip	17.27	14.53	13.35
UCC2305TDWRQ1	296-25744-1-ND	HID Lamp Controller* ***NEW!***	28-SOIC	13.23	11.22	10.35
UCC2305TDWRQ1	296-25744-2-ND	HID Lamp Controller* ***NEW!***	28-SOIC	14662.00/2,000		
UCC3974PW	296-12405-5-ND	Dual Cold Cathode Fluorescent Lamp Ctrlr.	16-TSSOP	11.00	9.25	8.50
UCC3977PW	296-12615-5-ND	Dual Transformer Controller	8-TSSOP	8.40	6.89	6.22

TEXAS INSTRUMENTS DigiReel® POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Audio Differential Line Drivers				
DRV134PA	DRV134PA-ND	Audio Balanced Line Driver with Differential Output	8-Dip	5.46	4.39	4.00
DRV134UA	DRV134UA-ND	Audio Balanced Line Driver with Differential Output	16-SOIC	6.58	5.29	4.82
DRV135UA	DRV135UA-ND	Audio Balanced Line Driver with Differential Output	8-SOIC	6.58	5.29	4.82
		Battery Management				
BQ20Z40PW	296-24526-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330* ***NEW!***	20-TSSOP	10.25	8.41	7.59
BQ20Z40PW-R1	296-25634-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330* ***NEW!***	20-TSSOP	10.88	8.92	8.05
BQ20Z45DBT-R1	296-25635-5-ND	SBS 1.1-Compliant Gas Gauge* ***NEW!***	38-TSSOP	11.66	9.81	9.01
BQ20Z60DBT-R1	296-25604-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330* ***NEW!***	30-TSSOP	11.75	9.64	8.70
BQ20Z65DBT-R1	296-25636-5-ND	SBS 1.1-Compliant Gas Gauge* ***NEW!***	44-TSSOP	12.54	10.55	9.69
BQ20Z70PW	296-19864-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330	20-TSSOP	10.53	8.64	7.79
BQ20Z70PW-V150	296-22552-5-ND	SBS 1.1-Compliant Gas Gauge Enabled	20-TSSOP	10.53	8.64	7.79
BQ20Z70PW-V160	296-23706-5-ND	SBS 1.1-Compliant Gas Gauge	20-TSSOP	9.50	7.79	7.03
BQ20Z75DBT	296-22553-5-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled IC	38-TSSOP	130.92	118.05	114.19
BQ20Z75DBTR-V160	296-23516-1-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled IC	38-TSSOP	11.13	9.24	8.40
BQ20Z75DBTR-V160	296-23516-2-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled IC	38-TSSOP	10920.00/2,000		
BQ20Z80ADBT-V110	296-22554-5-ND	SBS 1.1-Compliant Gas Gauge Enabled	38-TSSOP	12.21	10.27	9.44
BQ20Z80DBT	296-17638-5-ND	Advanced Gas Gauge	38-TSSOP	12.17	10.24	9.41
BQ20Z80DBTR-V102	296-19275-1-ND	SBS-Compliant Gas Gauge	38-TSSOP	12.19	10.12	9.20
BQ20Z80DBTR-V102	296-19275-2-ND	SBS-Compliant Gas Gauge	38-TSSOP	11960.00/2,000		
BQ20Z80DBTV101	296-18681-5-ND	Advanced Gas Gauge	38-TSSOP	12.17	10.24	9.41
BQ20Z80EVM-001	296-20821-ND	Evaluation Module for BQ20Z80	—	101.00	—	—
BQMTESTER	296-19619-ND	Multi-Channel Test and Prog. Board	—	305.00	—	—
BQ20Z70PWR-V110	296-21216-1-ND	SBS 1.1-Compliant Gas Gauge	20-TSSOP	9.25	7.68	6.98
BQ20Z70PWR-V110	296-21216-2-ND	SBS 1.1-Compliant Gas Gauge	20-TSSOP	9074.00/2,000		
BQ20Z90DBT	296-19865-5-ND	SBS 1.1-Compliant Gas Guage for use with BQ29330	30-TSSOP	11.05	9.07	8.18
BQ20Z90DBT-V110	296-21371-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330	30-TSSOP	11.05	9.07	8.18
BQ20Z90DBT-V150	296-22555-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330	30-TSSOP	10.00	8.20	7.40
BQ20Z90EVM-001	296-22907-ND	Evaluation Module for BQ20Z90/29330/29412	—	101.00	—	—
BQ20Z95DBT	296-22543-5-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled	44-TSSOP	12.21	10.27	9.44
BQ76PL102RGTT	296-25333-1-ND	PowerLAN™ Battery Mgmt. Controller* ***NEW!***	16-QFN	3.15	2.58	2.31
BQ76PL102RGTT	296-25333-2-ND	PowerLAN™ Battery Mgmt. Controller* ***NEW!***	16-QFN	485.75/250		
BQ77PL900DLR	296-23520-1-ND	Five to Ten Series Cell Li-Ion or Li-Pol Battery Protector	48-SSOP	7.82	6.49	5.90
BQ77PL900DLR	296-23520-2-ND	Five to Ten Series Cell Li-Ion or Li-Pol Battery Protector	48-SSOP	3983.00/1,000		
BQ78PL114RGZR	296-23814-1-ND	Master Gateway Battery Controller	48-QFN	11.93	9.90	9.00
BQ78PL114RGZR	296-23814-2-ND	Master Gateway Battery Controller	48-QFN	14625.00/2,500		
BQ2000PN-B5	296-9313-5-ND	Multichemistry Charge Management	8-Dip	4.20	3.38	3.08
BQ2000PW	296-12359-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	5.04	4.05	3.69
BQ2000SN-B5	296-9314-5-ND	Multichemistry Charge Management	8-SOIC	5.04	4.05	3.69
BQ2000SN-B5TR	296-25915-1-ND	Multichemistry Charge Management* ***NEW!***	8-SOIC	4.50	3.68	3.30
BQ2000SN-B5TR	296-25915-2-ND	Multichemistry Charge Management* ***NEW!***	8-SOIC	4987.50/2,500		
BQ2000TPN-B5	296-9315-5-ND	Multichemistry Charge Management	8-Dip	4.20	3.38	3.08
BQ2000TPW	296-12360-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	5.04	4.05	3.69
BQ2000TSN-B5	296-9316-5-ND	Multichemistry Charge Management	8-SOIC	5.04	4.05	3.69
DV2000S1	296-9486-ND	Evaluation Module for BQ2000	—	101.00	—	—
DV2000TS1	296-9487-ND	Evaluation Module for BQ2000T	—	101.00	—	—
BQ2002CPN	296-9317-5-ND	Fast Charge Controller	8-Dip	2.64	2.13	1.92
BQ2002CSN	296-9318-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002DSN	296-9319-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002EPN	296-9320-5-ND	Fast Charge Controller	8-Dip	2.64	2.13	1.92
BQ2002ESN	296-9321-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002FPN	296-9322-5-ND	Fast Charge Controller	8-Dip	2.80	2.25	2.05
BQ2002FSN	296-9323-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002GPN	296-9324-5-ND	Fast Charge Controller	8-Dip	2.64	2.13	1.92
BQ2002GSN	296-9325-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002PN	296-9326-5-ND	Fast Charge Controller	8-Dip	2.64	2.13	1.92
BQ2002SN	296-9327-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
BQ2002TPN	296-9328-5-ND	Fast Charge Controller	8-Dip	2.64	2.13	1.92
BQ2002TSN	296-9329-5-ND	Fast Charge Controller	8-SOIC	2.80	2.25	2.05
DV2002L2	296-9488-ND	Evaluation Module for BQ2002	—	101.00	—	—
DV2002TL2	296-9489-ND	Evaluation Module for BQ2002T	—	101.00	—	—
BQ2003PN	296-9330-5-ND	Fast Charge Controller	16-Dip	6.16	4.95	4.51
BQ2003S	296-9331-5-ND	Fast Charge Controller	16-SOIC	6.63	5.44	4.91
DV2003L1	296-9490-ND	Evaluation Module for BQ2003	—	101.00	—	—
DV2003S1	296-9491-ND	Evaluation Module for BQ2003	—	101.00	—	—
DV2003S2	296-9492-ND	Evaluation Module for BQ2003	—	101.00	—	—
BQ2004EPN	296-9332-5-ND	Fast Charge Controller	16-Dip	6.02	4.84	4.41
BQ2004ESN	296-9333-5-ND	Fast Charge Controller	16-SOIC	6.50	5.33	4.81
BQ2004HPN	296-9334-5-ND	Fast Charge Controller	16-Dip	6.02	4.84	4.41
BQ2004HSN	296-9335-5-ND	Fast Charge Controller	16-SOIC	6.50	5.33	4.81
BQ2004PN	296-9336-5-ND	Fast Charge Controller	16-Dip	6.02	4.84	4.41
BQ2004SN	296-9337-5-ND	Fast Charge Controller	16-SOIC	6.50	5.33	4.81
DV2004ES1	296-9493-ND	Evaluation Module for BQ2004E	—	101.00	—	—
DV2004HS1	296-9494-ND	Evaluation Module for BQ2004H	—	101.00	—	—
DV2004L1	296-9495-ND	Evaluation Module for BQ2004	—	101.00	—	—
DV2004S1	296-9496-ND	Evaluation Module for BQ2004	—	101.00	—	—
BQ2005S	296-9338-5-ND	Dual Fast Charge Controller	20-SOIC	6.63	5.44	4.91
BQ2010SN-D107	296-2218-5-ND	Battery Gas Gauge	16-SOIC	11.50	9.43	8.51
BQ2011SN-D118	296-9340-5-ND	Battery Gas Gauge	16-SOIC	12.32	10.36	9.52
EV2011	296-9506-ND	Evaluation Module for BQ2011	—	101.00	—	—

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* RoHS Compliant

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(Continued)

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TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
BQ2012SN-D107	296-9341-5-ND	Battery Gas Gauge	16-SOIC	12.65	10.64	9.78
BQ2013HEVM-001	296-9342-ND	Evaluation Module for BQ2013	—	101.00	—	—
BQ2013HSN-A514	296-9343-5-ND	Battery Gas Gauge	16-SOIC	11.00	9.02	8.14
BQ2014HSN	296-9345-5-ND	Battery Gas Gauge	16-SOIC	12.10	10.18	9.35
BQ2014SN-D120	296-2220-5-ND	Battery Gas Gauge	16-SOIC	11.50	9.43	8.51
BQ2018EVM-001	296-9346-ND	Evaluation Module for BQ2018	—	101.00	—	—
BQ2018SN-E1	296-2221-5-ND	Battery Power Monitor	8-SOIC	7.00	5.74	5.18
BQ2018TS-E1	296-2222-5-ND	Battery Power Monitor	8-TSSOP	7.00	5.74	5.18
BQ2019PW	296-9348-5-ND	Advanced Battery Monitoring	8-TSSOP	6.44	5.18	4.72
BQ2022ADBZR	296-20742-1-ND	1K-Bit Serial EPROM with SDQ	SOT-23-3	3.33	2.57	2.33
BQ2022ADBZR	296-20742-2-ND	1K-Bit Serial EPROM with SDQ	SOT-23-3	3849.00/3,000		
BQ2022ALPR	296-21327-1-ND	1K-Bit Serial EPROM with SDQ	TO-92-3	3.33	2.57	2.33
BQ2022ALPR	296-21327-3-ND	1K-Bit Serial EPROM with SDQ	TO-92-3	2565.00/2,000		
BQ2022DBZR	296-16825-1-ND	1K-Bit Serial EPROM with SDQ	SOT-23-3	7.10	5.90	5.36
BQ2022LPR	296-19767-1-ND	1K-Bit Serial EPROM with SDQ	TO-92-3	7.10	5.90	5.36
BQ2022LPR	296-19767-3-ND	1K-Bit Serial EPROM with SDQ	TO-92-3	6968.00/2,000		
BQ2023EVM-001	296-19923-ND	Evaluation Module for BQ2023	—	101.00	—	—
BQ2023EVM-002	296-13541-ND	Evaluation Module for BQ2023	—	101.00	—	—
BQ2023PW	296-11861-5-ND	Battery Power Monitor	8-TSSOP	7.38	6.05	5.46
BQ2024DBZR	296-21948-1-ND	1.5K-Bit Serial EPROM with SDQ	SOT-23-3	3.75	3.07	2.75
BQ2024DBZR	296-21948-2-ND	1.5K-Bit Serial EPROM with SDQ	SOT-23-3	4987.50/3,000		
BQ2031PN-A5	296-9349-5-ND	Lead Acid Fast Charge	16-Dip	7.00	5.74	5.18
BQ2031SN-A5	296-9350-5-ND	Lead Acid Fast Charge	16-SOIC	8.38	6.87	6.20
DV2031S2	296-19950-ND	Evaluation Module for BQ2031	—	101.00	—	—
BQ2040EVM-001	296-9351-ND	Evaluation Module for BQ2040	—	101.00	—	—
BQ2040SN-C408	296-2223-5-ND	Battery Gas Gauge	16-SOIC	11.50	9.43	8.51
BQ2040SN-D111	296-13773-5-ND	Gas Gauge IC with SMBus Interface	16-SOIC	11.50	9.43	8.51
BQ2050HEVM-002	296-9352-ND	Evaluation Module for BQ2050H	—	101.00	—	—
BQ2050HSN-A508	296-9353-5-ND	Lithium-Ion Gas Gauge	16-SOIC	11.00	9.02	8.14
BQ2050SN-D119	296-2225-5-ND	Lithium-Ion Power Gauge	16-SOIC	11.50	9.43	8.51
BQ2052EVM-001	296-9354-ND	Evaluation Module for BQ2052	—	101.00	—	—
BQ2052SN-A515	296-9355-5-ND	Primary Lithium Gas Gauge	16-SOIC	11.00	9.25	8.50
BQ2054PN	296-9356-5-ND	Lithium-Ion Fast Charge	16-Dip	7.25	5.95	5.37
BQ2054SN	296-9357-5-ND	Lithium-Ion Fast Charge	16-SOIC	8.75	7.18	6.48
DV2054S2	296-9499-ND	Evaluation Module for BQ2054	—	101.00	—	—
BQ2057CDGK	296-11991-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.51	2.03	1.83
BQ2057CDGKR	296-11991-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.35	1.81	1.65
BQ2057CDGKR	296-11991-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2261.25/2,500		
BQ2057CSN	296-9358-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-SOIC	2.51	2.03	1.83
BQ2057CTS	296-9359-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-TSSOP	2.51	2.03	1.83
BQ2057CTSTR	296-25916-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell* ***NEW!***	8-TSSOP	2.35	1.81	1.65
BQ2057CTSTR	296-25916-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell* ***NEW!***	8-TSSOP	1810.00/2,000		
BQ2057WTSTR	296-25917-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell* ***NEW!***	8-TSSOP	2.66	2.06	1.87
BQ2057WTSTR	296-25917-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell* ***NEW!***	8-TSSOP	2052.00/2,000		
DV2057C	296-9501-ND	Evaluation Module for BQ2057C	—	101.00	—	—
BQ2057DGK	296-11992-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.51	2.03	1.83
BQ2057PDGK	296-15351-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-MSOP	3.19	2.57	2.34
BQ2057SN	296-9360-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-SOIC	2.08	1.68	1.51
BQ2057TS	296-9361-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-TSSOP	2.08	1.68	1.51
BQ2057TSN	296-9362-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-SOIC	2.36	1.90	1.71
BQ2057TTS	296-9363-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-TSSOP	2.95	2.38	2.14
DV2057T	296-9502-ND	Evaluation Module for BQ2057T	—	101.00	—	—
BQ2057WSN	296-9364-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-SOIC	2.95	2.38	2.14
BQ2057WTS	296-9365-5-ND	Li-Ion LDO Linear Charge Mgmt.	8-TSSOP	2.95	2.38	2.14
DV2057	296-9500-ND	Evaluation Module for BQ2057	—	101.00	—	—
DV2057W	296-9503-ND	Evaluation Module for BQ2057W	—	101.00	—	—
BQ2060A-E619DBQ	296-18388-5-ND	SBS 1.1 Compliant Gas Gauge IC	28-QSOP	9.00	7.38	6.66
BQ2060A-E619DBQR	296-25918-1-ND	SBS v1.1 Compliant Gas Gauge IC* ***NEW!***	28-QSOP	7.95	6.60	6.00
BQ2060A-E619DBQR	296-25918-2-ND	SBS v1.1 Compliant Gas Gauge IC* ***NEW!***	28-QSOP	9750.00/2,500		
BQ2060AEVM-001	296-18389-ND	Evaluation Module for BQ2060A-001	—	101.00	—	—
BQ2060AEVM-002	296-18390-ND	Evaluation Module for BQ2060A-002	—	101.00	—	—
BQ2060SS-E411	296-12268-5-ND	Multi-Chemistry SBS v1.1 Gas Gauge	28-QSOP	11.70	9.60	8.66
BQ2063DBQ	296-12199-5-ND	Battery Gas Gauge	28-QSOP	12.13	9.95	8.98
BQ2083DBT	296-13030-5-ND	SBS Compliant Gas Gauge for use with BQ29311	38-TSSOP	14.78	12.44	11.43
BQ2083DBT-V1P3	296-17237-ND	SBS Compliant Gas Gauge for use with BQ29311	38-TSSOP	14.74	12.40	11.39
BQ2083EVM-001	296-19924-ND	Evaluation Module for BQ2083	—	101.00	—	—
BQ2084DBT	296-15343-5-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	12.34	10.38	9.54
BQ2084DBT-V150	296-22085-5-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	12.00	9.84	8.88
BQ2084DBTR-V143	296-21297-1-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	10.60	8.80	8.00
BQ2084DBTR-V143	296-21297-2-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	10400.00/2,000		
BQ2084EVM-001	296-18391-ND	Evaluation Module for BQ2084-001	—	101.00	—	—
BQ2084RTTR-V140	296-19398-1-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	36-QFN	12.40	10.30	9.36
BQ2084RTTR-V140	296-19398-2-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	36-QFN	18252.00/3,000		
BQ2085DBT	296-14071-5-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	12.34	10.38	9.54
BQ2085DBT-V1P3	296-17238-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	12.10	10.18	9.35
BQ2085DBTR	296-15962-1-ND	Gas Gauge for BQ29311	38-TSSOP	12.40	10.30	9.36
BQ2085DBTR	296-15962-2-ND	Gas Gauge for BQ29311	38-TSSOP	12168.00/2,000		
BQ20Z45DBT	296-24401-5-ND	SBS Compliant Gas Gauge* ***NEW!***	38-TSSOP	11.00	9.02	8.14
BQ20Z70PWR-V160	296-25919-1-ND	SBS 1.1 Compliant Gas Gauge* ***NEW!***	20-TSSOP	8.35	6.93	6.30
BQ20Z70PWR-V160	296-25919-2-ND	SBS 1.1 Compliant Gas Gauge* ***NEW!***	20-TSSOP	8190.00/2,000		
BQ2201PN	296-9369-5-ND	SRAM Nonvolatile Controller IC	8-Dip	5.18	4.17	3.80
BQ2201SN	296-9370-5-ND	SRAM Nonvolatile Controller IC	8-SOIC	6.30	5.07	4.62
EV2200	296-9509-ND	Evaluation Module for BQ20XX	—	50.00	—	—
BQ2204APN	296-9375-5-ND	x4 SRAM Nonvolatile Controller	16-Dip	7.13	5.85	5.28
BQ2204ASN	296-9376-5-ND	x4 SRAM Nonvolatile Controller	16-SOIC	8.63	7.08	6.39
BQ2205LYPW	296-16973-5-ND	Power Monitoring and Switching Controller for 3.3V SRAM	16-TSSOP	5.88	4.73	4.31
BQ2954PN	296-9387-5-ND	Lithium-Ion Fast Charger	16-Dip	5.60	4.50	4.10
BQ2954SN	296-9388-5-ND	Lithium-Ion Fast Charger	16-SOIC	6.72	5.40	4.92
DV2954S1H	296-9504-ND	Evaluation Module for BQ2954	—	101.00	—	—
DV2954S1L	296-9505-ND	Evaluation Module for BQ2954	—	101.00	—	—
BQ3060PW	296-25544-5-ND	SBS Compliant Gas Gauge* ***NEW!***	24-TSSOP	10.75	8.82	7.96
BQ4010LYMA-70N	296-21698-5-ND	8kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	13.22	11.12	10.22
BQ4010MA-85	296-9389-5-ND	8kx8 Nonvolatile SRAM, 10%, 85nS	28-Dip	17.40	14.64	13.45
BQ4010YMA-70	296-9390-5-ND	8kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	17.18	14.45	13.28
BQ4011LYMA-70N	296-22088-5-ND	32kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	14.87	12.51	11.50
BQ4011MA-100	296-9391-5-ND	32kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	19.32	16.25	14.93
BQ4011YMA-70	296-9393-5-ND	32kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	20.58	17.50	16.21
BQ4011YMA-100	296-9392-5-ND	32kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	20.58	17.50	16.21
BQ4013LYMA-70N	296-22089-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	19.32	16.25	14.93
BQ4013YMA-70	296-9394-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	23.12	19.66	18.21
BQ4013YMA-70N	296-9395-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	22.84	19.42	17.99
BQ4013YMA-85	296-9396-5-ND	128kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	23.12	19.66	18.21
BQ4014MB-85	296-9397-5-ND	256kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	44.97	38.90	36.47
BQ4014YMB-85	296-9398-5-ND	256kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	44.97	38.90	36.47
BQ4015LYMA-70N	296-22090-5-ND	512kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	39.64	33.70	31.22
BQ4015MA-70	296-9399-5-ND	512kx8 Nonvolatile SRAM, 10% 70nS	32-Dip	47.64	41.20	38.63
BQ4015YMA-70	296-9400-5-ND	512kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	47.64	41.20	38.63
BQ4015YMA-85	296-9401-5-ND	512kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	47.64	41.20	38.63
BQ4016MC-70	296-9402-5-ND	1024kx8 Nonvolatile SRAM, 5%, 70nS	36-Dip	67.25	59.34	56.38
BQ4016YMC-70	296-9403-5-ND	1024kx8 Nonvolatile SRAM, 10%, 70nS	36-Dip	60.40	53.30	50.64
BQ4017MC-70	296-9404-5-ND	2048kx8 Nonvolatile SRAM, 70nS	36-Dip	96.10	85.59	81.09
BQ6400RGZR	296-23769-1-ND	Single Chip 3 or 4 Cell Li-Ion Battery Management Controller	48-QFN	13.12	10.89	9.90
BQ6400RGZR	296-23769-2-ND	Single Chip 3 or 4 Cell Li-Ion Battery Management Controller	48-QFN	16087.50/2,500		
BQ20851DBT-V1P2	296-17465-5-ND	Gas Gauge for BQ29311	38-TSSOP	11.44	9.62	8.84
BQ24001EVM	296-9377-ND	Evaluation Module for BQ24001	—	49.38	—	—
BQ24001PWP	296-9378-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	6.72	5.40	4.92
BQ24001RGWEVM	296-19925-ND	Evaluation Module for BQ24001RGW	—	50.00	—	—
BQ24002PWP	296-9379-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	5.46	4.39	4.00
BQ24002RGWEVM	296-19926-ND	Evaluation Module for BQ24002RGW	—	50.00	—	—
BQ24002RGWR	296-12969-1-ND	Single Cell Li-Ion Charge Management	20-QFN	4.80	3.92	3.52
BQ24002RGWR	296-12969-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6384.00/3,000		
BQ24003PWP	296-9380-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	5.46	4.39	4.00
BQ24003RGWEVM	296-19927-ND	Evaluation Module for BQ24003RGW	—	50.00	—	—
BQ24003RGWR	296-12970-1-ND	Single Cell Li-Ion Charge Management	20-QFN	4.80	3.92	3.52
BQ24003RGWR	296-12970-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6384.00/3,000		
BQ24004EVM	296-19928-ND	Evaluation Module for BQ24004	—	50.00	—	—
BQ24004PWP	296-9381-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	5.46	4.39	4.00
BQ24005PWP	296-9382-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	5.46	4.39	4.00
BQ24006PWP	296-9383-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	6.72	5.40	4.92
BQ24007PWP	296-9384-5-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-HTSSOP	6.72	5.40	4.92
BQ24007RGWEVM	296-19929-ND	Evaluation Module for BQ24007RGW	—	50.00	—	—
BQ24007RGWR	296-12971-1-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	6.00	4.90	4.40
BQ24007RGWR	296-12971-2-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	7980.00/3,000		
BQ24008PWP	296-9385-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	5.46	4.39	4.00
BQ24010DRCR	296-13714-1-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24010DRCR	296-13714-2-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	4011.00/3,000		
BQ24010EVM	296-19930-ND	Evaluation Module for BQ24010	—	50.00	—	—
BQ24012DRCR	296-13715-1-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24012DRCR	296-13715-2-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	4011.00/3,000		
BQ24012EVM	296-19931-ND	Evaluation Module for BQ24012	—	50.00	—	—
BQ24013DRCR	296-13716-1-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24013DRCR	296-13716-2-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	4009.50/3,000		
BQ24013EVM	296-19932-ND	Evaluation Module for BQ24013	—	50.00	—	—
BQ24014DRCR	296-18392-1-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24014DRCR	296-18392-2-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	4009.50/3,000		
BQ24018DRCR	296-22086-1-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24018DRCR	296-22086-2-ND	Single Chip, Li-Ion Charge Mgmt.	10-SON	4009.50/3,000		
BQ24020DRCR	296-14072-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.47	2.68	2.43
BQ24020DRCR	296-14072-2-ND	Li-Ion/Li-Pol Charger	10-SON	4011.00/3,000		
BQ24020EVM	296-19933-ND	Evaluation Module for BQ24020	—	50.00	—	—
BQ24022DRCR	296-14397-1-ND	Single Cell Li-Ion Charge Mgmt.	10-SON	3.47	2.68	2.43
BQ24022DRCR	296-14397-2-ND	Single Cell Li-Ion Charge Mgmt.	10-SON	4011.00/3,000		
BQ24022EVM	296-18393-ND	Evaluation Module for BQ24022	—	50.00	—	—
BQ24023DRCR	296-15182-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.47	2.68	2.43
BQ24023DRCR	296-15182-2-ND	Li-Ion/Li-Pol Charger	10-SON	4009.50/3,000		
BQ24023EVM	296-18394-ND	Evaluation Module for BQ24023	—	50.00	—	—
BQ24024DRCR	296-17054-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3.47	2.68	2.43
BQ24024DRCR	296-17054-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	4009.50/3,000		
BQ24025DRCR	296-15760-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3.47	2.68	2.43
BQ24025DRCR	296-15760-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	4009.50/3,000		
BQ24026DRCR	296-17305-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.47	2.68	2.43
BQ24026DRCR	296-17305-2-ND	Li-Ion/Li-Pol Charger	10-SON	4009.50/3,000		
BQ24027DRCR	296-19866-1-ND	Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3.47	2.68	2.43
BQ24027DRCR	296-19866-2-ND	Single Chip Li-Ion/Li-Pol Charger IC	10-SON	4009.50/3,000		
BQ24027EVM	296-20732-ND	Evaluation Module for BQ24027	—	50.00	—	—
BQ24030EVM	296-20822-ND	Evaluation Module for BQ24030	—	50.00	—	—
BQ24030RHLR	296-17909-1-ND	Single-Chip Power Mgmt. System	20-QFN	5.40	4.41	3.96
BQ24030RHLR	296-17909-2-ND	Single-Chip Power Mgmt. System	20-QFN	7182.00/3,000		
BQ24031RHLR	296-21372-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.40	4.41	3.96
BQ24031RHLR	296-21372-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	7182.00/3,000		
BQ24031RHLRQ1	296-24147-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	6.45	5.27	4.73
BQ24031RHLRQ1	296-24147-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	8580.00/3,000		
BQ24032AEVM	296-20823-ND	Evaluation Module for BQ24032A	—	50.00	—	—
BQ24032ARHLR	296-18285-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.40	4.41	3.96
BQ24032ARHLR	296-18285-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	7182.00/3,000		
BQ24035EVM	296-20824-ND	Evaluation Module for BQ24035	—	50.00	—	—
BQ24035RHLR	296-17803-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.40	4.41	3.96

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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24035RHLR	296-17803-2-ND	Single-Chip Charge and System Power-Path Managment IC	20-QFN	7182.00/3,000		
BQ24038RHLT	296-18286-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	6.30	5.15	4.62
BQ24038RHLT	296-18286-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	971.25/250		
BQ24040DSQT	296-25136-1-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	4.05	3.31	2.97
BQ24040DSQT	296-25136-2-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	624.50/250		
BQ24041DSQT	296-25137-1-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	4.05	3.31	2.97
BQ24041DSQT	296-25137-2-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	624.50/250		
BQ24050DSQT	296-25138-1-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	5.10	4.17	3.74
BQ24050DSQT	296-25138-2-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	786.25/250		
BQ24052DSQT	296-25139-1-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	5.10	4.17	3.74
BQ24052DSQT	296-25139-2-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	10-SON	786.25/250		
BQ24055DSST	296-25140-1-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	12-SON	5.10	4.17	3.74
BQ24055DSST	296-25140-2-ND	800mA, Single Cell Li-Ion Battery Charger* ***NEW!***	12-SON	786.25/250		
BQ24060DRCT	296-19867-1-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	3.45	2.82	2.53
BQ24060DRCT	296-19867-2-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	532.00/250		
BQ24064DRCR	296-19869-1-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	3.47	2.68	2.43
BQ24064DRCR	296-19869-2-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	4009.50/3,000		
BQ24070EVM	296-20733-ND	Evaluation Module for BQ24070	—	50.00	—	—
BQ24070RHLR	296-19652-1-ND	Single Chip Charge and System Power Path Management IC	20-QFN	4.80	3.92	3.52
BQ24070RHLR	296-19652-2-ND	Single Chip Charge and System Power Path Management IC	20-QFN	6384.00/3,000		
BQ24071RHLT	296-20743-1-ND	Li-Ion Charge and System Power-Path Management IC	20-QFN	5.55	4.54	4.07
BQ24071RHLT	296-20743-2-ND	Li-Ion Charge and System Power-Path Management IC	20-QFN	855.75/250		
BQ24072RGTT	296-23813-1-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	5.55	4.54	4.07
BQ24072RGTT	296-23813-2-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	855.75/250		
BQ24073RGTT	296-23839-1-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	5.55	4.54	4.07
BQ24073RGTT	296-23839-2-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	855.75/250		
BQ24074RGTT	296-23798-1-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	5.55	4.54	4.07
BQ24074RGTT	296-23798-2-ND	1.2A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	855.75/250		
BQ24075RGTT	296-23840-1-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	5.55	4.54	4.07
BQ24075RGTT	296-23840-2-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Management IC	16-QFN	855.75/250		
BQ24075TRGTR	296-25609-1-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	4.80	3.92	3.52
BQ24075TRGTR	296-25609-2-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	6384.00/3,000		
BQ24079RGTR	296-24815-1-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	4.80	3.92	3.52
BQ24079RGTR	296-24815-2-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	6384.00/3,000		
BQ24079TRGTR	296-25610-1-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	4.80	3.92	3.52
BQ24079TRGTR	296-25610-2-ND	1.5A USB Li-Ion Battery Charger/ Power-Path Mgmt. IC* ***NEW!***	16-QFN	6384.00/3,000		
BQ24080DRCR	296-19653-1-ND	Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3.33	2.57	2.33
BQ24080DRCR	296-19653-2-ND	Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3849.00/3,000		
BQ24080EVM	296-20734-ND	Evaluation Module for BQ24080	—	50.00	—	—
BQ24081DRCR	296-21217-1-ND	1A Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3.33	2.57	2.33
BQ24081DRCR	296-21217-2-ND	1A Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3849.00/3,000		
BQ24083DRCR	296-23459-1-ND	1A Single Chip Li-Ion/Li-Pol Charger IC	10-SON	3.33	2.57	2.33
BQ24083DRCR	296-23459-2-ND	1A Single Chip Li-Ion Li-Pol Charger IC	10-SON	3847.50/3,000		
BQ24085DRCR	296-22992-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3.33	2.57	2.33
BQ24085DRCR	296-22992-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3849.00/3,000		
BQ24086DRCR	296-22993-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3.33	2.57	2.33
BQ24086DRCR	296-22993-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3847.50/3,000		
BQ24087DRCR	296-22994-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3.33	2.57	2.33
BQ24087DRCR	296-22994-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3847.50/3,000		
BQ24088DRCR	296-23443-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3.33	2.57	2.33
BQ24088DRCR	296-23443-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC	10-SON	3849.00/3,000		
BQ24090DGQT	296-25863-1-ND	1A Single-Input, Single Cell Li-Ion Battery Charger* ***NEW!***	10-MSOP	3.15	2.58	2.31
BQ24090DGQT	296-25863-2-ND	1A Single-Input, Single Cell Li-Ion Battery Charger* ***NEW!***	10-MSOP	485.75/250		
BQ24091DGQT	296-25864-1-ND	1A Single-Input, Single Cell Li-Ion Battery Charger* ***NEW!***	10-MSOP	3.15	2.58	2.31
BQ24091DGQT	296-25864-2-ND	1A Single-Input, Single Cell Li-Ion Battery Charger* ***NEW!***	10-MSOP	485.75/250		
BQ24100EVM	296-17258-ND	Evaluation Module for BQ24100	—	50.00	—	—
BQ24100RHLR	296-17154-1-ND	Li-Ion/Li-Pol Charger	20-QFN	6.00	4.90	4.40
BQ24100RHLR	296-17154-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7980.00/3,000		
BQ24103ARHLR	296-22739-1-ND	Li-Ion/Li-Pol Charger	20-QFN	6.00	4.90	4.40
BQ24103ARHLR	296-22739-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7980.00/3,000		
BQ24103EVM	296-17259-ND	Evaluation Module for BQ24103	—	50.00	—	—
BQ24103RHLR	296-17155-1-ND	Li-Ion/Li-Pol Charger	20-QFN	6.00	4.90	4.40
BQ24103RHLR	296-17155-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7980.00/3,000		
BQ24104RHLR	296-24034-1-ND	Li-Ion/Li-Pol Charger	20-QFN	6.00	4.90	4.40
BQ24104RHLR	296-24034-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7980.00/3,000		
BQ24105EVM	296-17260-ND	Evaluation Module for BQ24105	—	50.00	—	—
BQ24105IRHLRQ1	296-25154-1-ND	Li-Ion/Li-Pol Charger* ***NEW!***	20-QFN	10.87	9.02	8.20
BQ24105IRHLRQ1	296-25154-2-ND	Li-Ion/Li-Pol Charger* ***NEW!***	20-QFN	15990.00/3,000		
BQ24105RHLR	296-17159-1-ND	Li-Ion/Li-Pol Charger	20-QFN	9.28	7.70	7.00
BQ24105RHLR	296-17159-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13650.00/3,000		
BQ24109RHLR	296-22956-1-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	6.00	4.90	4.40
BQ24109RHLR	296-22956-2-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	7980.00/3,000		
BQ24113ARHLT	296-22087-1-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	6.90	5.64	5.06
BQ24113ARHLT	296-22087-2-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	1063.75/250		
BQ24113EVM	296-17261-ND	Evaluation Module for BQ24113	—	50.00	—	—
BQ24115EVM	296-17262-ND	Evaluation Module for BQ24115	—	50.00	—	—
BQ24115RHLR	296-17160-1-ND	Li-Ion/Li-Pol Charger	20-QFN	9.28	7.70	7.00
BQ24115RHLR	296-17160-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13650.00/3,000		
BQ24120EVM-001	296-19719-ND	Evaluation Module for BQ24120	—	50.00	—	—
BQ24120RHLT	296-19572-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	6.90	5.64	5.06
BQ24120RHLT	296-19572-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	1063.75/250		
BQ24123RHLR	296-25924-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC* ***NEW!***	20-QFN	6.00	4.90	4.40
BQ24123RHLR	296-25924-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC* ***NEW!***	20-QFN	7980.00/3,000		
BQ24123RHLT	296-19573-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	6.90	5.64	5.06
BQ24123RHLT	296-19573-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	1063.75/250		
BQ24125RHLR	296-22881-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	9.28	7.70	7.00
BQ24125RHLR	296-22881-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	13650.00/3,000		
BQ24150AYFFR	296-24527-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	6.00	4.90	4.40
BQ24150AYFFR	296-24527-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	7980.00/3,000		
BQ24150AYFFT	296-24546-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	6.90	5.64	5.06
BQ24150AYFFT	296-24546-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	1063.75/250		
BQ24150YFFR	296-23460-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	6.00	4.90	4.40
BQ24150YFFR	296-23460-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	7980.00/3,000		
BQ24150YFFT	296-23601-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	6.90	5.64	5.06
BQ24150YFFT	296-23601-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	1063.75/250		
BQ24151AYFFR	296-24521-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	6.00	4.90	4.40
BQ24151AYFFR	296-24521-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	7980.00/3,000		
BQ24151AYFFT	296-24541-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	6.90	5.64	5.06
BQ24151AYFFT	296-24541-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger* ***NEW!***	20-DSBGA	1063.75/250		
BQ24151YFFR	296-23461-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	6.00	4.90	4.40
BQ24151YFFR	296-23461-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	7980.00/3,000		
BQ24151YFFT	296-23602-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	6.90	5.64	5.06
BQ24151YFFT	296-23602-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	1063.75/250		
BQ24152YFFR	296-23517-1-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	6.00	4.90	4.40
BQ24152YFFR	296-23517-2-ND	Fully Integrated Switch-Mode One-Cell Li-Ion Charger	20-DSBGA	7980.00/3,000		
BQ24200DGN	296-12409-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	3.64	2.93	2.67
BQ24200EVM	296-13542-ND	Eval. Module for BQ24200-BQ24205	—	50.00	—	—
BQ24201DGN	296-12410-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	3.64	2.93	2.67
BQ24202DGN	296-12411-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.94	2.37	2.16
BQ24203DGN	296-12412-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	3.08	2.48	2.26
BQ24204DGN	296-12413-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.94	2.37	2.16
BQ24205DGN	296-12414-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	3.08	2.48	2.26
BQ24230RGTR	296-23937-1-ND	4.4V, Li-Ion Battery Charger	16-QFN	4.50	3.68	3.30
BQ24230RGTR	296-23937-2-ND	4.4V, Li-Ion Battery Charger	16-QFN	5985.00/3,000		
BQ24230RGTT	296-24667-1-ND	Li-Ion Battery Charger and Power-Path Management* ***NEW!***	16-QFN	5.25	4.29	3.85
BQ24230RGTT	296-24667-2-ND	Li-Ion Battery Charger and Power-Path Management* ***NEW!***	16-QFN	809.50/250		
BQ24300DSGR	296-23075-1-ND	Charger Front End Protection IC	8-SON	1.93	1.49	1.35
BQ24300DSGR	296-23075-2-ND	Charger Front End Protection IC	8-SON	2227.50/3,000		
BQ24304DSGR	296-23076-1-ND	Charger Front End Protection IC	8-SON	1.93	1.49	1.35
BQ24304DSGR	296-23076-2-ND	Charger Front End Protection IC	8-SON	2227.50/3,000		
BQ24305DSGT	296-23518-1-ND	Overvoltage and Overcurrent Protection IC	8-SON	2.28	1.76	1.60
BQ24305DSGT	296-23518-2-ND	Overvoltage and Overcurrent Protection IC	8-SON	325.00/250		
BQ24308DSGT	296-25374-1-ND	Li-Ion Charger Front End Protection IC* ***NEW!***	8-SON	2.28	1.76	1.60

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24308DSGT	296-25374-2-ND	Li-Ion Charger Front End Protection IC* **NEW!**	8-SON	325.00/250		
BQ24312DSGT	296-24975-1-ND	Li-Ion Charger Front End Protection IC* **NEW!**	8-SON	2.28	1.76	1.60
BQ24312DSGT	296-24975-2-ND	Li-Ion Charger Front End Protection IC* **NEW!**	8-SON	325.00/250		
BQ24313DSGT	296-23933-1-ND	Li-Ion Front End Charger	8-SON	2.28	1.76	1.60
BQ24313DSGT	296-23933-2-ND	Li-Ion Front End Charger	8-SON	325.00/250		
BQ24314ADSGR	296-23340-1-ND	Li-Ion Charger Front End Protection IC	8-SON	1.93	1.49	1.35
BQ24314ADSGR	296-23340-2-ND	Li-Ion Charger Front End Protection IC	8-SON	2227.50/3,000		
BQ24314DSGR	296-22998-1-ND	Li-Ion Charger Front End Protection IC	8-SON	1.93	1.49	1.35
BQ24314DSGR	296-22998-2-ND	Li-Ion Charger Front End Protection IC	8-SON	2229.00/3,000		
BQ24314DSJR	296-24698-1-ND	Li-Ion Charger Front End Protection IC* **NEW!**	12-SON	1.93	1.49	1.35
BQ24314DSJR	296-24698-2-ND	Li-Ion Charger Front End Protection IC* **NEW!**	12-SON	2227.50/3,000		
BQ24315DSGR	296-23341-1-ND	Charger Front End Protection IC	8-SON	1.93	1.49	1.35
BQ24315DSGR	296-23341-2-ND	Charger Front End Protection IC	8-SON	2227.50/3,000		
BQ24316DSGR	296-22613-1-ND	Overvoltage and Overcurrent Protection IC	8-SON	1.93	1.49	1.35
BQ24316DSGR	296-22613-2-ND	Overvoltage and Overcurrent Protection IC	8-SON	2229.00/3,000		
BQ24316DSJR	296-23342-1-ND	Overvoltage and Overcurrent Protection IC	12-SON	2.28	1.76	1.60
BQ24316DSJR	296-23342-2-ND	Overvoltage and Overcurrent Protection IC	12-SON	2632.50/3,000		
BQ24232RGTT	296-24668-1-ND	Li-Ion Battery Charger and Power-Path Management* **NEW!**	16-QFN	5.25	4.29	3.85
BQ24232RGTT	296-24668-2-ND	Li-Ion Battery Charger and Power-Path Management* **NEW!**	16-QFN	809.50/250		
BQ24350DSGR	296-24528-1-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	2.28	1.76	1.60
BQ24350DSGR	296-24528-2-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	2634.00/3,000		
BQ24352DSGR	296-24859-1-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	2.28	1.76	1.60
BQ24352DSGR	296-24859-2-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	2632.50/3,000		
BQ24380DSGR	296-23385-1-ND	Overvoltage and Overcurrent Protection IC	8-SON	1.93	1.49	1.35
BQ24380DSGR	296-23385-2-ND	Overvoltage and Overcurrent Protection IC	8-SON	2227.50/3,000		
BQ24381DSGR	296-23444-1-ND	Overvoltage and Overcurrent Protection IC	8-SON	1.93	1.49	1.35
BQ24381DSGR	296-23444-2-ND	Overvoltage and Overcurrent Protection IC	8-SON	2227.50/3,000		
BQ24382DSGR	296-24248-1-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	1.93	1.49	1.35
BQ24382DSGR	296-24248-2-ND	Overvoltage and Overcurrent Protection IC* **NEW!**	8-SON	2227.50/3,000		
BQ24400D	296-12622-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	5.18	4.17	3.80
BQ24400PW	296-12623-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	5.18	4.17	3.80
BQ24401D	296-12624-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	5.18	4.17	3.80
BQ24401PW	296-12625-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	5.18	4.17	3.80
BQ24450DWTR	296-24367-1-ND	Battery Charger for Lead-Acid Batteries* **NEW!**	16-SOIC	7.29	6.05	5.50
BQ24450DWTR	296-24367-2-ND	Battery Charger for Lead-Acid Batteries* **NEW!**	16-SOIC	7150.00/2,000		
BQ24610RGET	296-25611-1-ND	Li-Ion, Li-Polymer Battery Charger* **NEW!**	24-VQFN	8.88	7.37	6.70
BQ24610RGET	296-25611-2-ND	Li-Ion, Li-Polymer Battery Charger* **NEW!**	24-VQFN	1423.75/250		
BQ24617RGET	296-25779-1-ND	Sync. Switch-Mode Battery Charger* **NEW!**	24-VQFN	8.88	7.37	6.70
BQ24617RGET	296-25779-2-ND	Sync. Switch-Mode Battery Charger* **NEW!**	24-VQFN	1423.75/250		
BQ24630RGET	296-25761-1-ND	Sync. Switch-Mode Battery Charger* **NEW!**	24-VQFN	11.00	9.13	8.30
BQ24630RGET	296-25761-2-ND	Sync. Switch-Mode Battery Charger* **NEW!**	24-VQFN	1763.75/250		
BQ24701PW	296-12362-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	7.75	6.36	5.74
BQ24702PW	296-15264-5-ND	Battery Charger Controller and System Power Selector	24-TSSOP	6.38	5.23	4.72
BQ24703EVM	296-18396-ND	Evaluation Module for BQ24703	—	50.00	—	—
BQ24703PW	296-15113-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.38	5.23	4.72
BQ24703RHDR	296-17828-1-ND	Battery Charger Controller/Selector with DPM	28-QFN	6.30	5.15	4.62
BQ24703RHDR	296-17828-2-ND	Battery Charger Controller/Selector with DPM	28-QFN	8379.00/3,000		
BQ24704RGET	296-24631-1-ND	Li-Ion, Li-Polymer Battery Charger* **NEW!**	24-VQFN	6.76	5.61	5.10
BQ24704RGET	296-24631-2-ND	Li-Ion, Li-Polymer Battery Charger* **NEW!**	24-VQFN	1083.75/250		
BQ24705RGER	296-22957-1-ND	Host-Controlled Multi-Chemistry Battery Charger	24-VQFN	6.60	5.39	4.84
BQ24705RGER	296-22957-2-ND	Host-Controlled Multi-Chemistry Battery Charger	24-VQFN	8778.00/3,000		
BQ24721CRHBR	296-21373-1-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	7.16	5.94	5.40
BQ24721CRHBR	296-21373-2-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	10530.00/3,000		
BQ24721EVM	296-19455-ND	Evaluation Module for BQ24721	—	152.00	—	—
BQ24730RGFR	296-19661-1-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	40-QFN	7.69	6.38	5.80
BQ24730RGFR	296-19661-2-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	40-QFN	11310.00/3,000		
BQ24740RHDR	296-21374-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	6.90	5.64	5.06
BQ24740RHDR	296-21374-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9177.00/3,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24741RHDT	296-24314-1-ND	Sync. Switch-Mode Battery Charger* **NEW!**	28-QFN	7.02	5.83	5.30
BQ24741RHDT	296-24314-2-ND	Sync. Switch-Mode Battery Charger* **NEW!**	28-QFN	1126.25/250		
BQ24742RHDT	296-25313-1-ND	Sync. Li-Ion or Li-Polymer Battery Charger* **NEW!**	28-QFN	7.02	5.83	5.30
BQ24742RHDT	296-25313-2-ND	Sync. Li-Ion or Li-Polymer Battery Charger* **NEW!**	28-QFN	1126.25/250		
BQ24745RHDT	296-22995-1-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger	28-QFN	8.88	7.37	6.70
BQ24745RHDT	296-22995-2-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger	28-QFN	1423.75/250		
BQ24747RHDT	296-25287-1-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger* **NEW!**	28-QFN	8.88	7.37	6.70
BQ24747RHDT	296-25287-2-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger* **NEW!**	28-QFN	1423.75/250		
BQ24750ARHDR	296-23945-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	6.63	5.50	5.00
BQ24750ARHDR	296-23945-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9750.00/3,000		
BQ24750RHDR	296-21375-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	6.63	5.50	5.00
BQ24750RHDR	296-21375-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9750.00/3,000		
BQ24751ARHDR	296-22875-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	6.63	5.50	5.00
BQ24751ARHDR	296-22875-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9750.00/3,000		
BQ24751BRHDT	296-23841-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	7.69	6.38	5.80
BQ24751BRHDT	296-23841-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	1232.50/250		
BQ24751RHDR	296-21376-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	6.63	5.50	5.00
BQ24751RHDR	296-21376-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9750.00/3,000		
BQ24753ARHDT	296-24866-1-ND	Host-Controlled Li-Ion and Li-Polymer Battery Charger* **NEW!**	28-QFN	7.69	6.38	5.80
BQ24753ARHDT	296-24866-2-ND	Host-Controlled Li-Ion and Li-Polymer Battery Charger* **NEW!**	28-QFN	1232.50/250		
BQ24753RHDT	296-24046-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	7.69	6.38	5.80
BQ24753RHDT	296-24046-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	1232.50/250		
BQ24765RUVT	296-25460-1-ND	SMBus-Controlled Multi-Chemistry Battery Charger* **NEW!**	34-VQFN	12.06	10.01	9.10
BQ24765RUVT	296-25460-2-ND	SMBus-Controlled Multi-Chemistry Battery Charger* **NEW!**	34-VQFN	1933.75/250		
BQ24901PW	296-14073-5-ND	Single Cell Li-Ion/Li-Pol Charger	14-TSSOP	7.88	6.46	5.83
BQ25010EVM	296-20826-ND	Evaluation Module for BQ25010	—	50.00	—	—
BQ25012RHLR	296-17804-1-ND	Charge/Power Management	20-QFN	4.50	3.68	3.30
BQ25012RHLR	296-17804-2-ND	Charge/Power Management	20-QFN	5985.00/3,000		
BQ25015RHLR	296-21510-1-ND	Single Chip Charger and DC/DC Converter for Portable Applications	20-QFN	4.80	3.92	3.52
BQ25015RHLR	296-21510-2-ND	Single Chip Charger and DC/DC Converter for Portable Applications	20-QFN	6384.00/3,000		
BQ25017RHLR	296-21697-1-ND	Single Chip Charger and DC/DC Conv.	20-QFN	4.80	3.92	3.52
BQ25017RHLR	296-21697-2-ND	Single Chip Charger and DC/DC Conv.	20-QFN	6384.00/3,000		
BQ25040DQCR	296-24279-1-ND	1.1A Li-Ion Charger with LDO* **NEW!**	10-WSON	3.60	2.94	2.64
BQ25040DQCR	296-24279-2-ND	1.1A Li-Ion Charger with LDO* **NEW!**	10-WSON	4788.00/3,000		
BQ26100DRPR	296-20633-1-ND	SHA-1/HMAC Based Security and Authentication IC	6-SON	3.90	3.19	2.86
BQ26100DRPR	296-20633-2-ND	SHA-1/HMAC Based Security and Authentication IC	6-SON	5187.00/3,000		
BQ26150DCKR	296-18601-1-ND	Battery Pack Security/Authentication IC	SC70-5	4.95	4.05	3.63
BQ26150DCKR	296-18601-2-ND	Battery Pack Security/Authentication IC	SC70-5	6583.50/3,000		
BQ26150EVM-001	296-20827-ND	Evaluation Module for BQ26150	—	101.00	—	—
BQ26200EVM-001	296-19934-ND	Evaluation Module for BQ26200	—	101.00	—	—
BQ26200PW	296-12626-5-ND	High Performance Battery Monitor	8-TSSOP	6.58	5.29	4.82
BQ26220EVM-001	296-18397-ND	Evaluation Module for BQ26220-001	—	101.00	—	—
BQ26220PW	296-14004-5-ND	High Performance Battery Monitor with Voltage and Temperature	8-TSSOP	7.63	6.26	5.65
BQ26221PWR	296-17161-1-ND	High Performance Battery Monitor	8-TSSOP	6.89	5.72	5.20
BQ26221PWR	296-17161-2-ND	High Performance Battery Monitor	8-TSSOP	6760.00/2,000		
BQ26231EVM-001	296-19935-ND	Evaluation Module for BQ26231	—	101.00	—	—
BQ26231PW	296-12269-5-ND	Battery Coulomb Counter	8-TSSOP	6.30	5.07	4.62
BQ26500EVM-001	296-18398-ND	Evaluation Module for BQ26500-001	—	101.00	—	—
BQ26500PW	296-15848-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	7.13	5.85	5.28
BQ26500PWR	296-16775-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	7.05	5.76	5.17
BQ26500PWR	296-16775-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	6251.00/2,000		
BQ26501PW	296-16925-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	8.88	7.28	6.57
BQ27X00-TESTER	296-20829-ND	Test System for BQ27X00 Based Circuit Boards	—	152.00	—	—
BQ27000DRKR	296-17428-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	3.45	2.82	2.53
BQ27000DRKR	296-17428-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	4588.50/3,000		
BQ27000EVM	296-18399-ND	Evaluation Module for BQ27000	—	101.00	—	—
BQ27010DRKR	296-20634-1-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	3.75	3.07	2.75
BQ27010DRKR	296-20634-2-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	4987.50/3,000		
BQ27200DRKR	296-17521-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	3.45	2.82	2.53
BQ27200DRKR	296-17521-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	4590.00/3,000		
BQ27200EVM	296-20828-ND	Evaluation Module for BQ27200	—	101.00	—	—
BQ27210DRKR	296-21511-1-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	3.75	3.07	2.75
BQ27210DRKR	296-21511-2-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	4989.00/3,000		
BQ27350PWR	296-21665-1-ND	Single Cell Li-Ion Battery Manager	20-TSSOP	5.40	4.41	3.96
BQ27350PWR	296-21665-2-ND	Single Cell Li-Ion Battery Manager	20-TSSOP	4788.00/2,000		

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T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ27500DRZR-V130	296-25319-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-SON	4.05	3.31	2.97
BQ27500DRZR-V130	296-25319-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-SON	5386.50/3,000		
BQ27500DRZT	296-22633-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	5.88	4.81	4.32
BQ27500DRZT	296-22633-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	906.50/250		
BQ27500DRZT-V100	296-23401-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	4.65	3.80	3.41
BQ27500DRZT-V100	296-23401-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	717.00/250		
BQ27500DRZR-V120	296-23896-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	4.05	3.31	2.97
BQ27500DRZR-V120	296-23896-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	5386.50/3,000		
BQ27500EVM	296-23174-ND	Evaluation Module for BQ2750X	—	101.00	—	—
BQ27500YZGT-V130	296-25719-1-ND	Li-Ion Battery Fuel Gauge* ***NEW!***	12-DSBGA	4.80	3.92	3.52
BQ27500YZGT-V130	296-25719-2-ND	Li-Ion Battery Fuel Gauge* ***NEW!***	12-DSBGA	740.00/250		
BQ27501DRZR	296-24135-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	4.05	3.31	2.97
BQ27501DRZR	296-24135-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	5386.50/3,000		
BQ27501DRZT	296-24165-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	4.65	3.80	3.41
BQ27501DRZT	296-24165-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	717.00/250		
BQ27505YZGR-J1	296-24195-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	4.35	3.56	3.19
BQ27505YZGR-J1	296-24195-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	5785.50/3,000		
BQ27505YZGT-J2	296-24410-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	4.95	4.05	3.63
BQ27505YZGT-J2	296-24410-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	763.25/250		
BQ27505YZGT-J3	296-25261-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	4.95	4.05	3.63
BQ27505YZGT-J3	296-25261-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	763.25/250		
BQ27505YZGT-J4	296-25794-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	4.95	4.05	3.63
BQ27505YZGT-J4	296-25794-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-DSBGA	763.25/250		
BQ27510DRZR-G1	296-24408-1-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-SON	4.35	3.56	3.19
BQ27510DRZR-G1	296-24408-2-ND	System-Side Impedance Track™ Fuel Gauge* ***NEW!***	12-SON	5785.50/3,000		
BQ27510DRZT	296-23519-1-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	5.10	4.17	3.74
BQ27510DRZT	296-23519-2-ND	System-Side Impedance Track™ Fuel Gauge	12-SON	786.25/250		
BQ27541DRZR	296-25925-1-ND	Single Cell Li-Ion Battery Fuel Gauge* ***NEW!***	12-SON	4.35	3.56	3.19
BQ27541DRZR	296-25925-2-ND	Single Cell Li-Ion Battery Fuel Gauge* ***NEW!***	12-SON	5787.00/3,000		
BQ27541DRZT	296-24035-1-ND	Single Cell Li-Ion Battery Fuel Gauge	12-SON	5.10	4.17	3.74
BQ27541DRZT	296-24035-2-ND	Single Cell Li-Ion Battery Fuel Gauge	12-SON	786.25/250		
BQ27541DRZT-V200	296-25835-1-ND	Single Cell Li-Ion Battery Fuel Gauge* ***NEW!***	12-SON	5.10	4.17	3.74
BQ27541DRZT-V200	296-25835-2-ND	Single Cell Li-Ion Battery Fuel Gauge* ***NEW!***	12-SON	786.25/250		
BQ29311PW	296-13067-5-ND	3 and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	3.36	2.70	2.46
BQ29312APW	296-18644-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	3.36	2.70	2.46
BQ29312APWR	296-25926-1-ND	3 and 4-Cell Li-Ion or Li-Pol Battery Protection* ***NEW!***	24-TSSOP	3.00	2.45	2.20
BQ29312APWR	296-25926-2-ND	3 and 4-Cell Li-Ion or Li-Pol Battery Protection* ***NEW!***	24-TSSOP	2660.00/2,000		
BQ29312ARTHR	296-19870-1-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-QFN	3.00	2.45	2.20
BQ29312ARTHR	296-19870-2-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-QFN	3990.00/3,000		
BQ29312PW	296-15247-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	4.54	3.65	3.33
BQ29330DBT	296-18607-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	30-TSSOP	3.36	2.70	2.46
BQ29400PW	296-15331-5-ND	2, 3, and 4-Cell Li-Ion Battery Protection	8-TSSOP	1.55	1.25	1.13
BQ29401PW	296-16673-5-ND	2 to 4-Cell Li-Ion Battery Protection	8-TSSOP	1.68	1.35	1.18
BQ29410DCTR	296-21218-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.63	1.29	1.16
BQ29410DCTR	296-21218-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1797.00/3,000		
BQ29410PW	296-19574-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.61	1.30	1.17
BQ29410PWRG4	296-21298-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29410PWRG4	296-21298-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.00/2,000		
BQ29411DCT3R	296-20831-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.63	1.29	1.16
BQ29411DCT3R	296-20831-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1797.60/3,000		
BQ29411DCTR	296-21219-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.63	1.29	1.16
BQ29411DCTR	296-21219-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1797.60/3,000		
BQ29411PW	296-19575-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.61	1.30	1.17
BQ29411PWRG4	296-21220-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29411PWRG4	296-21220-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.40/2,000		
BQ29412DCT3R	296-19277-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.71	1.35	1.22
BQ29412DCT3R	296-19277-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1890.00/3,000		
BQ29412DCTR	296-21723-1-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	SM8	1.71	1.35	1.22
BQ29412DCTR	296-21723-2-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	SM8	1890.00/3,000		
BQ29412PW	296-19456-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.71	1.38	1.24
BQ29412PWRG4	296-21724-1-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	8-TSSOP	1.71	1.35	1.22
BQ29412PWRG4	296-21724-2-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	8-TSSOP	1260.00/2,000		
EV2300	296-18432-ND	Eval. Module for Interface Board	—	50.00	—	—
BQ29413DCTR	296-21328-1-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.63	1.29	1.16
BQ29413DCTR	296-21328-2-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1797.60/3,000		
BQ29413PWR	296-21329-1-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29413PWR	296-21329-2-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.40/2,000		
BQ29414DCTR	296-21377-1-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.63	1.29	1.16
BQ29414DCTR	296-21377-2-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1797.60/3,000		
BQ29414PWR	296-21378-1-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29414PWR	296-21378-2-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.40/2,000		
BQ29415PWR	296-21380-1-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29415PWR	296-21380-2-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.40/2,000		
BQ29419PWR	296-22030-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.63	1.29	1.16
BQ29419PWR	296-22030-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1198.40/2,000		
TPS3600D20PW	296-10906-5-ND	2V Battery Backup Supervisor for Low Power Processors	14-TSSOP	7.50	6.15	5.55
TPS3600D25PW	296-12017-5-ND	2.5V Battery Backup Supervisor for Low Power Processors	14-TSSOP	7.50	6.15	5.55
TPS3600D33PW	296-12237-5-ND	3.3V Battery Backup Supervisor for Low Power Processors	14-TSSOP	7.50	6.15	5.55
TPS3600D50PW	296-12238-5-ND	5V Battery Backup Supervisor for Low Power Processors	14-TSSOP	7.50	6.15	5.55
TPS3606-33DGS	296-10909-5-ND	3.3V Battery Backup Supervisor for Low Power Processors	10-MSOP	6.16	4.95	4.51
TPS3610T50PW	296-10910-5-ND	5V Battery Backup Supervisor for RAM Retention	14-TSSOP	6.25	5.13	4.63
TPS3610U18PW	296-12239-5-ND	1.8V Battery Backup Supervisor for RAM Retention	14-TSSOP	6.25	5.13	4.63
TPS3613-01DGS	296-10912-5-ND	Adj. Battery Backup Supervisor for RAM Retention	10-MSOP	4.76	3.83	3.49
TPS3617-50DGK	296-10913-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3.05	2.46	2.24
TPS3618-50DGKT	296-17574-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3.39	2.77	2.49
TPS3618-50DGKT	296-17574-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	522.75/250		
TPS3619-33DGK	296-12141-5-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	2.83	2.28	2.08
TPS3619-33MDGKREP	296-22436-1-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	8.75	7.26	6.60
TPS3619-33MDGKREP	296-22436-2-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	10725.00/2,500		
TPS3619-50DGK	296-12142-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.83	2.28	2.08
TPS3620-33DGKR	296-17452-1-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	3.30	2.70	2.42
TPS3620-33DGKR	296-17452-2-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	3657.50/2,500		
TPS3620-33DGKT	296-26939-1-ND	3.3V Backup Battery Supervisor for RAM Retention* ***NEW!***	8-MSOP	3.90	3.19	2.86
TPS3620-33DGKT	296-26939-2-ND	3.3V Backup Battery Supervisor for RAM Retention* ***NEW!***	8-MSOP	601.25/250		
TPS3620-33MDGKREP	296-22437-1-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	7.45	6.19	5.62
TPS3620-33MDGKREP	296-22437-2-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	9132.50/2,500		
TPS3620-50DGKR	296-17575-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3.30	2.70	2.42
TPS3620-50DGKR	296-17575-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3657.50/2,500		
TPS54326PWPR	296-25310-1-ND	4.5V to 18V, 3A Synchronous Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	4.80	3.92	3.52
TPS54326PWPR	296-25310-2-ND	4.5V to 18V, 3A Synchronous Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	4256.00/2,000		
TPS61100RGER	296-15141-1-ND	Dual Output, Single Cell Boost Conv.	24-QFN	4.50	3.68	3.30
TPS61100RGER	296-15141-2-ND	Dual Output, Single Cell Boost Conv.	24-QFN	5985.00/3,000		
TPS61103RGER	296-15142-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	5.85	4.78	4.29
TPS61103RGER	296-15142-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	7780.50/3,000		
TPS61130EVM-206	296-18974-ND	Evaluation Module for TPS61130-206	—	50.00	—	—
TPS61130PW	296-13521-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	6.25	5.13	4.63
TPS61130RSAR	296-16921-1-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-VQFN	6.15	5.03	4.51
TPS61130RSAR	296-16921-2-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-VQFN	8179.50/3,000		
TPS61131PW	296-13522-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	7.75	6.36	5.74
TPS61132PW	296-13523-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	6.25	5.13	4.63
TPS61132RSAR	296-18975-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-VQFN	6.15	5.03	4.51
TPS61132RSAR	296-18975-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-VQFN	8179.50/3,000		
TPS65010EVM-230	296-18988-ND	Evaluation Module for TPS65010-230	—	50.00	—	—
TPS65011EVM-049	296-18989-ND	Evaluation Module for TPS65011-049	—	50.00	—	—

** RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS65011RGZR	296-16813-1-ND	Power/Battery Management	48-QFN	6.76	5.61	5.10
TPS65011RGZR	296-16813-2-ND	Power/Battery Management	48-QFN	8287.50/2,500		
TPS65012RGZR	296-16831-1-ND	Power/Battery Management	48-QFN	8.48	7.04	6.40
TPS65012RGZR	296-16831-2-ND	Power/Battery Management	48-QFN	10400.00/2,500		
TPS65013RGZT	296-17390-1-ND	Linear Charger Management for Single Li-Ion or Li-Pol Cells	48-QFN	7.82	6.49	5.90
TPS65013RGZT	296-17390-2-ND	Linear Charger Management for Single Li-Ion or Li-Pol Cells	48-QFN	1253.75/250		
TPS65014RGZT	296-17695-1-ND	Power/Battery Management	48-QFN	9.81	8.14	7.40
TPS65014RGZT	296-17695-2-ND	Power/Battery Management	48-QFN	1572.50/250		
TPS65020EVM-110	296-21164-ND	Evaluation Module for TPS65020	—	50.00	—	—
TPS65020RHAR	296-25294-1-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System* ***NEW!***	40-QFN	8.08	6.71	6.10
TPS65020RHAR	296-25294-2-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System* ***NEW!***	40-QFN	9912.50/2,500		
TPS65020RHAT	296-18582-1-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System	40-QFN	9.41	7.81	7.10
TPS65020RHAT	296-18582-2-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System	40-QFN	1508.75/250		
TPS65021EVM-110	296-21165-ND	Evaluation Module for TPS65021	—	50.00	—	—
TPS65021RHAT	296-19362-1-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System	40-QFN	9.41	7.81	7.10
TPS65021RHAT	296-19362-2-ND	Pwr. Mgmt. IC for Li-Ion Pwr. System	40-QFN	1508.75/250		
TPS65022RHAR	296-20693-1-ND	Power Management IC for Li-Ion	40-QFN	8.08	6.71	6.10
TPS65022RHAR	296-20693-2-ND	Power Management IC for Li-Ion	40-QFN	9912.50/2,500		
TPS65023QRHARQ1	296-25733-1-ND	Power Management IC for Li-Ion* ***NEW!***	40-VQFN	10.34	8.58	7.80
TPS65023QRHARQ1	296-25733-2-ND	Power Management IC for Li-Ion* ***NEW!***	40-VQFN	15210.00/3,000		
TPS65023QRSBRQ1	296-25412-1-ND	Power Mgmt. IC for Li-Ion* ***NEW!***	40-QFN	10.34	8.58	7.80
TPS65023QRSBRQ1	296-25412-2-ND	Power Mgmt. IC for Li-Ion* ***NEW!***	40-QFN	15210.00/3,000		
TPS65023RSBR	296-24630-1-ND	Power Mgmt. IC for Li-Ion* ***NEW!***	40-QFN	8.75	7.26	6.60
TPS65023RSBR	296-24630-2-ND	Power Mgmt. IC for Li-Ion* ***NEW!***	40-QFN	12870.00/3,000		
TPS65023RSBT	296-21318-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	40-QFN	10.07	8.36	7.60
TPS65023RSBT	296-21318-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	40-QFN	1615.00/250		
TPS65030YZKT	296-19560-1-ND	Power Mgmt. IC for USB-OTG	25-DSBGA	8.48	7.04	6.40
TPS65030YZKT	296-19560-2-ND	Power Mgmt. IC for USB-OTG	25-DSBGA	1360.00/250		
TPS65040ZQER	296-21349-1-ND	Clock/Power Mgmt. IC for RF System	71-BGA	11.50	9.75	9.00
TPS65040ZQER	296-21349-2-ND	Clock/Power Mgmt. IC for RF System	71-BGA	15937.50/2,500		
TPS65050RSMR	296-24615-1-ND	6-Ch. Power Management IC* ***NEW!***	32-VQFN	5.55	4.54	4.07
TPS65050RSMR	296-24615-2-ND	6-Ch. Power Management IC* ***NEW!***	32-VQFN	7381.50/3,000		
TPS65050RSMT	296-21557-1-ND	6-Channel Power Management IC	32-VQFN	6.45	5.27	4.73
TPS65050RSMT	296-21557-2-ND	6-Channel Power Management IC	32-QFN	994.50/250		
TPS65051RSMT	296-21558-1-ND	6-Channel Power Management IC	32-QFN	6.75	5.52	4.95
TPS65051RSMT	296-21558-2-ND	6-Channel Power Management IC	32-QFN	1040.75/250		
TPS65052RSMR	296-25755-1-ND	6-Channel Power Mgmt. IC* ***NEW!***	32-QFN	5.85	4.78	4.29
TPS65052RSMR	296-25755-2-ND	6-Channel Power Mgmt. IC* ***NEW!***	32-QFN	7782.00/3,000		
TPS65052RSMT	296-21559-1-ND	6-Channel Power Management IC	32-QFN	6.75	5.52	4.95
TPS65052RSMT	296-21559-2-ND	6-Channel Power Management IC	32-QFN	1040.75/250		
TPS65053RGER	296-24929-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	5.55	4.54	4.07
TPS65053RGER	296-24929-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	7381.50/3,000		
TPS65054RSMT	296-21560-1-ND	6-Channel Power Management IC	32-QFN	6.75	5.52	4.95
TPS65054RSMT	296-21560-2-ND	6-Channel Power Management IC	32-QFN	1040.75/250		
TPS65056RSMT	296-21561-1-ND	6-Channel Power Management IC	32-QFN	6.75	5.52	4.95
TPS65056RSMT	296-21561-2-ND	6-Channel Power Management IC	32-QFN	1040.75/250		
TPS65070RSLR	296-24939-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	10.47	8.69	7.90
TPS65070RSLR	296-24939-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	12837.50/2,500		
TPS65072RSLR	296-25734-1-ND	Power Management IC* ***NEW!***	48-VQFN	9.54	7.92	7.20
TPS65072RSLR	296-25734-2-ND	Power Management IC* ***NEW!***	48-VQFN	11700.00/2,500		
TPS65073RSLR	296-24942-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	10.47	8.69	7.90
TPS65073RSLR	296-24942-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	12837.50/2,500		
TPS65100QPWPRQ1	296-23726-1-ND	Quad Output LCD Supply	24-TSSOP	5.40	4.41	3.96
TPS65100QPWPRQ1	296-23726-2-ND	Quad Output LCD Supply	24-TSSOP	4788.00/2,000		
TPS65140IPWPRQ1	296-19612-1-ND	Triple Output LCD Supply	24-HTSSOP	4.95	4.05	3.63
TPS65140IPWPRQ1	296-19612-2-ND	Triple Output LCD Supply	24-HTSSOP	4389.00/2,000		
TPS65146RGER	296-23975-1-ND	LCD Supply TFT	24-VQFN	5.40	4.41	3.96
TPS65146RGER	296-23975-2-ND	LCD Supply TFT	24-VQFN	7182.00/3,000		
TPS65148RHBR	296-24563-1-ND	LCD Bias IC with Buffer and Voltage Regulator* ***NEW!***	32-QFN	6.30	5.15	4.62
TPS65148RHBR	296-24563-2-ND	LCD Bias IC with Buffer and Voltage Regulator* ***NEW!***	32-QFN	8379.00/3,000		
TPS65148RHBT	296-24610-1-ND	Compact LCD Bias IC with Linear Regulator* ***NEW!***	32-QFN	7.35	6.01	5.39
TPS65148RHBT	296-24610-2-ND	Compact LCD Bias IC with Linear Regulator* ***NEW!***	32-QFN	1133.25/250		
TPS65162RGZR	296-21974-1-ND	Compact LCD Bias IC	48-QFN	7.35	6.01	5.39
TPS65162RGZR	296-21974-2-ND	Compact LCD Bias IC	48-QFN	8147.50/2,500		
TPS65167RGZR	296-21975-1-ND	Compact LCD Bias Supply	40-QFN	6.30	5.15	4.62
TPS65167RGZR	296-21975-2-ND	Compact LCD Bias Supply	40-QFN	6982.50/2,500		
TPS65230A2DCA	296-25152-5-ND	Power Management IC* ***NEW!***	48-HTSSOP	8.50	6.97	6.29
TPS65230A2DCAR	296-25490-1-ND	Triple Output Pwr. Mgmt. IC* ***NEW!***	48-HTSSOP	7.42	6.16	5.60
TPS65230A2DCAR	296-25490-2-ND	Triple Output Pwr. Mgmt. IC* ***NEW!***	48-HTSSOP	7280.00/2,000		
TPS65510RGTR	296-23823-1-ND	LP Battery Backup IC	16-QFN	4.50	3.68	3.30
TPS65510RGTR	296-23823-2-ND	LP Battery Backup IC	16-QFN	5985.00/3,000		
TPS65720YFFR	296-25359-1-ND	2-Channel Power Mgmt. IC* ***NEW!***	25-DSBGA	4.95	4.05	3.63
TPS65720YFFR	296-25359-2-ND	2-Channel Power Mgmt. IC* ***NEW!***	25-DSBGA	6583.50/3,000		
TPS65721RSNR	296-25360-1-ND	2-Channel Power Mgmt. IC* ***NEW!***	32-QFN	4.95	4.05	3.63
TPS65721RSNR	296-25360-2-ND	2-Channel Power Mgmt. IC* ***NEW!***	32-QFN	6585.00/3,000		
TPS65800RTQR	296-19613-1-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	13.23	11.22	10.35
TPS65800RTQR	296-19613-2-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	14662.50/2,000		
TPS65800RTQT	296-19365-1-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	15.30	12.97	11.97
TPS65800RTQT	296-19365-2-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	2577.00/250		
TPS65810EVM	296-19715-ND	Evaluation Module for TPS65810	—	152.00	—	—
TPS65810RTQT	296-19645-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	17.25	14.63	13.50
TPS65810RTQT	296-19645-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	2906.25/250		
TPS65811RTQR	296-24601-1-ND	Single Cell Li-Ion Battery and Power Management* ***NEW!***	56-QFN	14.95	12.68	11.70
TPS65811RTQR	296-24601-2-ND	Single Cell Li-Ion Battery and Power Management* ***NEW!***	56-QFN	16575.00/2,000		
TPS65811RTQT	296-21648-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	17.25	14.63	13.50

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS65811RTQT	296-21648-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	2906.25/250		
TPS65820RSHR	296-19794-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	14.95	12.68	11.70
TPS65820RSHR	296-19794-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	16575.00/2,000		
TPS68000DBTR	296-19561-1-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller	30-TSSOP	6.63	5.50	5.00
TPS68000DBTR	296-19561-2-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller	30-TSSOP	6500.00/2,000		
TPS650240RHBT	296-22475-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.01	7.48	6.80
TPS650240RHBT	296-22475-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1445.00/250		
TPS650241QRHBRQ1	296-25236-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	32-QFN	10.07	8.36	7.60
TPS650241QRHBRQ1	296-25236-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	32-QFN	14820.00/3,000		
TPS650241RHBT	296-22476-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.94	8.25	7.50
TPS650241RHBT	296-22476-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1593.75/250		
TPS650242RHBT	296-22477-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.01	7.48	6.80
TPS650242RHBT	296-22477-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1445.00/250		
TPS650243QRHBRQ1	296-25237-1-ND	Pwr. Mgmt. IC for Li-Ion Pwr. Systems* ***NEW!***	32-QFN	10.07	8.36	7.60
TPS650243QRHBRQ1	296-25237-2-ND	Pwr. Mgmt. IC for Li-Ion Pwr. Systems* ***NEW!***	32-QFN	14820.00/3,000		
TPS650243RHBT	296-23066-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.94	8.25	7.50
TPS650243RHBT	296-23066-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1593.75/250		
TPS650244RHBT	296-23067-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.01	7.48	6.80
TPS650244RHBT	296-23067-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1445.00/250		
TPS650245RHBT	296-23068-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.01	7.48	6.80
TPS650245RHBT	296-23068-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1445.00/250		
TPS650250RHBT	296-24038-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	9.01	7.48	6.80
TPS650250RHBT	296-24038-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems	32-QFN	1445.00/250		
TPS650531RGER	296-25220-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	5.55	4.54	4.07
TPS650531RGER	296-25220-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	7381.50/3,000		
TPS650532RGER	296-25183-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	5.55	4.54	4.07
TPS650532RGER	296-25183-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	24-VQFN	7381.50/3,000		
TPS650731RSLR	296-24940-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	10.47	8.69	7.90
TPS650731RSLR	296-24940-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	12837.50/2,500		
TPS650732RSLR	296-24941-1-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	10.47	8.69	7.90
TPS650732RSLR	296-24941-2-ND	5-Channel Power Mgmt. IC* ***NEW!***	48-QFN	12837.50/2,500		
TPS657051YZHR	296-25867-1-ND	3-Channel Power Mgmt. IC* ***NEW!***	16-DSBGA	3.60	2.94	2.64
TPS657051YZHR	296-25867-2-ND	3-Channel Power Mgmt. IC* ***NEW!***	16-DSBGA	4788.00/3,000		
TPS657052YZHR	296-25868-1-ND	3-Channel Power Mgmt. IC* ***NEW!***	16-DSBGA	3.60	2.94	2.94
TPS657052YZHR	296-25868-2-ND	3-Channel Power Mgmt. IC* ***NEW!***	16-DSBGA	4788.00/3,000		
TPS658600ZQZT	296-25511-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	120-BGA	18.40	15.60	14.40
TPS658600ZQZT	296-25511-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	120-BGA	3100.00/250		
TPS658610ZQZT	296-24663-1-ND	Single Cell Li-Ion Battery and Power Management IC* ***NEW!***	120-BGA	18.40	15.60	14.40
TPS658610ZQZT	296-24663-2-ND	Single Cell Li-Ion Battery and Power Management IC* ***NEW!***	120-BGA	3100.00/250		
TPS658620ZQZT	296-25298-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	120-BGA	18.40	15.60	14.40
TPS658620ZQZT	296-25298-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	120-BGA	3100.00/250		
TPS658621CZGUT	296-25581-1-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	169-BGA	18.40	15.60	14.40
TPS658621CZGUT	296-25581-2-ND	Pwr. Mgmt IC for Li-Ion Pwr. Systems* ***NEW!***	169-BGA	3100.00/250		
UC2906DW	296-2228-5-ND	Lead-Acid Battery Charger	16-SOIC	8.25	6.77	6.11
UC2909DW	296-12527-5-ND	Switchmode Lead-Acid Batt. Charger	20-SOIC	9.25	7.59	6.85
UC2909N	296-2229-5-ND	Lead-Acid Battery Charger	20-Dip	7.63	6.26	5.65
UC3906DW	296-2230-5-ND	Lead-Acid Battery Charger	16-SOIC	8.25	6.77	6.11
UC3906N	296-11621-ND	Lead-Acid Battery Charger	16-Dip	6.88	5.64	5.09
UC3906Q	296-12193-5-ND	Lead-Acid Battery Charger	20-PLCC	8.25	6.77	6.11
UC3909DW	296-11345-5-ND	Lead-Acid Switchmode Charge Mgmt.	20-SOIC	9.25	7.59	6.85
UC3909N	296-2232-5-ND	Lead-Acid Switchmode Charge Mgmt.	20-Dip	7.63	6.26	5.65
UCC3911DP-1	296-11540-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	6.63	5.44	4.91
UCC3911DP-2	296-11541-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	6.63	5.44	4.91
UCC3911DP-3	296-11542-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	8.00	6.56	5.92
UCC3911DP-4	296-11543-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	6.63	5.44	4.91
UCC3956DW	296-11560-5-ND	Lithium-Ion Battery Circuit	20-SOIC	6.38	5.23	4.72
UCC3956N	296-2233-5-ND	Lithium-Ion Battery Circuit	20-Dip	6.38	5.23	4.72
UCC3957M-1	296-2234-5-ND	Lithium-Ion Protector Circuit	16-QSOP	6.75	5.54	5.00
UCC3957M-2	296-2235-5-ND	Lithium-Ion Protector Circuit	16-QSOP	6.75	5.54	5.00
UCC3957M-3	296-2236-5-ND	Lithium-Ion Protector Circuit	16-QSOP	6.75	5.54	5.00
UCC3957M-4	296-2237-5-ND	Lithium-Ion Protector Circuit	16-QSOP	6.75	5.54	5.00
UCD3040PFCR	296-25720-1-ND	Digital Power Controller* ***NEW!***	80-TQFP	9.94	8.25	7.50
UCD3040PFCR	296-25720-2-ND	Digital Power Controller* ***NEW!***	80-TQFP	5063.00/1,000		
		Buck Regulators				
MC33063ADR	296-17763-1-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	.68	.53	.47
MC33063ADR	296-17763-2-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	557.50/2,500		
MC33063ADRJR	296-21744-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	.68	.53	.47
MC33063ADRJR	296-21744-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	246.00/1,000		
MC33063AMDREP	296-22182-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	3.00	2.45	2.20
MC33063AMDREP	296-22182-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	3325.00/2,500		
MC33063AP	296-17764-5-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-Dip	.67	.53	.46
MC33063AQDRQ1	296-18690-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	.71	.55	.49
MC33063AQDRQ1	296-18690-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	582.50/2,500		
MC34063ADR	296-17765-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	.77	.54	.47
MC34063ADR	296-17765-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	542.50/2,500		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC34063ADRJR	296-21745-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	.77	.54	.47
MC34063ADRJR	296-21745-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	238.00/1,000		
MC34063AP	296-17764-5-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-Dip	.67	.53	.46
TPIC74100QPWPRQ1	296-21657-1-ND	Buck/Boost Switch Mode Regulator	20-HTSSOP	5.10	4.17	3.74
TPIC74100QPWPRQ1	296-21657-2-ND	Buck/Boost Switch Mode Regulator	20-HTSSOP	4522.00/2,000		
TPPM0115D	296-11987-5-ND	Switch Mode Sync. Buck Controller	8-SOIC	5.07	4.08	3.72
TPPM0115DR	296-11987-2-ND	Switch Mode Sync. Buck Controller	8-SOIC	5054.00/2,500		
TPS5110PW	296-15672-5-ND	Sync. Buck PWM Controller with NMOS LDO Controller	24-TSSOP	5.46	4.39	4.00
TPS5120DBT	296-10925-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	8.38	6.87	6.20
TPS5120DBTR	296-26979-1-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller* ***NEW!***	30-TSSOP	7.42	6.16	5.60
TPS5120DBTR	296-26979-2-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller* ***NEW!***	30-TSSOP	7280.00/2,000		
TPS5120MDBTREP	296-21272-1-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	12.24	10.38	9.58
TPS5120MDBTREP	296-21272-2-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	13566.00/2,000		
TPS5130PT	296-15673-ND	Triple Sync. Buck Controller with NMOS LDO Controller	48-LQFP	8.00	6.56	5.92
TPS5130PTR	296-26980-1-ND	Triple Sync. Buck Controller with NMOS LDO Controller* ***NEW!***	48-LQFP	7.02	5.83	5.30
TPS5130PTR	296-26980-2-ND	Triple Sync. Buck Controller with NMOS LDO Controller* ***NEW!***	48-LQFP	3578.00/1,000		
TPS5130QPTRQ1	296-24319-1-ND	Triple Sync. Buck Controller with NMOS LDO Controller* ***NEW!***	48-LQFP	8.22	6.82	6.20
TPS5130QPTRQ1	296-24319-2-ND	Triple Sync. Buck Controller with NMOS LDO Controller* ***NEW!***	48-LQFP	4185.00/1,000		
TPS5210DW	296-2021-5-ND	Sync. Buck Controller	28-SOIC	10.50	8.61	7.77
TPS5210EVM-126	296-10928-ND	Evaluation Module for TPS5210	—	99.78	—	—
TPS5210PWP	296-10929-5-ND	Synchronous Buck Controller	28-HTSSOP	10.63	8.72	7.87
TPS5615PWP	296-2022-5-ND	Buck Regulator Controller	28-HTSSOP	9.25	7.59	6.85
TPS5618PWP	296-2023-5-ND	Buck Regulator Controller	28-HTSSOP	11.13	9.13	8.24
TPS5625PWP	296-2024-5-ND	Buck Regulator Controller	28-HTSSOP	9.25	7.59	6.85
TPS5633EVM-104	296-10943-ND	Evaluation Module for TPS5633	—	49.38	—	—
TPS5633PWP	296-2025-5-ND	Buck Regulator Controller	28-HTSSOP	11.13	9.13	8.24
TPS40000DGQ	296-13051-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	3.36	2.70	2.46
TPS40001DGQ	296-13052-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.86	2.30	2.10
TPS40002DGQ	296-13053-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	3.36	2.70	2.46
TPS40003DGQ	296-13054-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.86	2.30	2.10
TPS40004DGQ	296-15715-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	3.33	2.68	2.44
TPS40005DGQ	296-15716-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.86	2.30	2.10
TPS40007DGQ	296-17067-ND	Low-Input, High-Efficiency, Sync. Buck Controller	10-MSOP	4.06	3.27	2.98
TPS40007DGQR	296-26957-1-ND	Low-Input High-Eff. Sync. Buck Ctrlr.* ***NEW!***	10-MSOP	3.60	2.94	2.64
TPS40007DGQR	296-26957-2-ND	Low-Input High-Eff. Sync. Buck Ctrlr.* ***NEW!***	10-MSOP	3990.00/2,500		
TPS40007EVM-001	296-18949-ND	Evaluation Module for TPS40007-001	—	50.00	—	—
TPS40009DGQ	296-17068-ND	Low-Input, High-Eff., Sync. Buck Ctrlr.	10-MSOP	4.06	3.27	2.98
TPS40009DGQR	296-26958-1-ND	Low-Input High-Eff. Sync. Buck Ctrlr.* ***NEW!***	10-MSOP	3.60	2.94	2.64
TPS40009DGQR	296-26958-2-ND	Low-Input High-Eff. Sync. Buck Ctrlr.* ***NEW!***	10-MSOP	3990.00/2,500		
TPS40009EVM-001	296-18950-ND	Evaluation Module for TPS40009-001	—	50.00	—	—
TPS40020PWP	296-16713-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	3.92	3.15	2.87
TPS40021PWP	296-16714-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	3.92	3.15	2.87
TPS40021PWPR	296-26959-1-ND	Low-Input, Voltage Mode, Sync. Buck Controller* ***NEW!***	16-HTSSOP	3.45	2.82	2.53
TPS40021PWPR	296-26959-2-ND	Low-Input, Voltage Mode, Sync. Buck Controller* ***NEW!***	16-HTSSOP	3060.00/2,000		
TPS40021EVM-001	296-18951-ND	Evaluation Module for TPS40021-001	—	50.00	—	—
TPS40041DRBT	296-26960-1-ND	Sync. Buck DC/DC Controller* ***NEW!***	8-SON	3.15	2.58	2.31
TPS40041DRBT	296-26960-2-ND	Sync. Buck DC/DC Controller* ***NEW!***	8-SON	485.75/250		
TPS40050PWP	296-15042-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4.76	3.83	3.49
TPS40050QPWPRQ1	296-16963-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	5.85	4.78	4.29
TPS40050QPWPRQ1	296-16963-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	5188.00/2,000		
TPS40051PWP	296-15043-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4.76	3.83	3.49
TPS40051QPWPRQ1	296-16964-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	5.85	4.78	4.29
TPS40051QPWPRQ1	296-16964-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	5188.00/2,000		
TPS40053PWP	296-15044-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4.76	3.83	3.49
TPS40054PWP	296-18952-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	5.32	4.28	3.90
TPS40055EVM-001	296-18953-ND	Evaluation Module for TPS40055-001	—	50.00	—	—
TPS40055EVM-002	296-18954-ND	Evaluation Module for TPS40055-002	—	50.00	—	—
TPS40055MPWPREP	296-22445-1-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	6.90	5.64	5.06
TPS40055MPWPREP	296-22445-2-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	6118.00/2,000		
TPS40055PWP	296-17510-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	5.32	4.28	3.90
TPS40056PWP	296-19709-ND	Wide-Input Sync. Tracking Buck Ctrlr.	16-HTSSOP	5.46	4.39	4.00
TPS40057PWP	296-17235-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	5.32	4.28	3.90
TPS40057PWPR	296-26961-1-ND	Wide-Input Sync. Buck Ctrlr.* ***NEW!***	16-HTSSOP	4.65	3.80	3.41
TPS40057PWPR	296-26961-2-ND	Wide-Input Sync. Buck Ctrlr.* ***NEW!***	16-HTSSOP	4124.00/2,000		
TPS40060EVM	296-18955-ND	Evaluation Module for TPS40060	—	50.00	—	—
TPS40060PWP	296-14389-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	4.90	3.94	3.59
TPS40061PWP	296-14390-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	4.90	3.94	3.59
TPS40061PWPR	296-26962-1-ND	Wide-Input Sync. Buck Ctrlr.* ***NEW!***	16-HTSSOP	4.35	3.56	3.19
TPS40061PWPR	296-26962-2-ND	Wide-Input Sync. Buck Ctrlr.* ***NEW!***	16-HTSSOP	3858.00/2,000		
TPS40070PWP	296-16773-ND	Synchronous Buck Controller	16-HTSSOP	3.81	3.06	2.79
TPS40071EVM-001	296-18956-ND	Evaluation Module for TPS40071-001	—	49.38	—	—
TPS40071PWP	296-16774-ND	Synchronous Buck Controller	16-HTSSOP	4.40	3.54	3.22
TPS40074EVM001	296-18726-ND	Evaluation Module for TPS40074	—	50.00	—	—
TPS40074RHLR	296-18670-1-ND	Midrange Input Sync. Buck Controller	20-VQFN	4.05	3.31	2.97
TPS40074RHLR	296-18670-2-ND	Midrange Input Sync. Buck Controller	20-VQFN	5386.50/3,000		
TPS40075RHLT	296-19886-1-ND	Midrange Input Sync. Buck Controller	20-VQFN	4.65	3.80	3.41
TPS40075RHLT	296-19886-2-ND	Midrange Input Sync. Buck Controller	20-VQFN	717.00/250		
TPS40090RHDR	296-19887-1-ND	2, 3, or 4-Phase Prog. Sync. Buck Controller	28-VQFN	5.70	4.66	4.18
TPS40090RHDR	296-19887-2-ND	2, 3, or 4-Phase Prog. Sync. Buck Controller	28-VQFN	7581.00/3,000		
TPS40091PW	296-17212-5-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	24-TSSOP	6.44	5.18	4.72
TPS40091RHDR	296-19888-1-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	28-VQFN	5.70	4.66	4.18
TPS40091RHDR	296-19888-2-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	28-VQFN	7581.00/3,000		
TPS40100RGET	296-18077-1-ND	Mid-Range Input Sync. Buck Cont.	24-QFN	6.15	5.03	4.51
TPS40100RGET	296-18077-2-ND	Mid-Range Input Sync. Buck Cont.	24-QFN	948.25/250		
TPS40101RGER	296-21271-1-ND	Mid-Range Input Sync. Buck Cont.	24-QFN	5.85	4.78	4.29
TPS40101RGER	296-21271-2-ND	Mid-Range Input Sync. Buck Cont.	24-QFN	7780.50/3,000		
TPS40130DBT	296-17348-ND	2-Phase Sync. Buck Controller	30-TSSOP	6.90	5.66	5.11
TPS40130RHBR	296-19360-1-ND	2-Phase Sync. Buck Controller	32-VQFN	6.90	5.64	5.06
TPS40130RHBR	296-19360-2-ND	2-Phase Sync. Buck Controller	32-VQFN	9177.00/3,000		
TPS40130RHBT	296-18727-1-ND	2-Phase Sync. Buck Controller	32-VQFN	7.10	5.90	5.36
TPS40130RHBT	296-18727-2-ND	2-Phase Sync. Buck Controller	32-VQFN	1139.00/250		
TPS40131RHBR	296-21675-1-ND	2-Phase Sync. Buck Controller	32-VQFN	7.35	6.01	5.39
TPS40131RHBR	296-21675-2-ND	2-Phase Sync. Buck Controller	32-VQFN	9775.50/3,000		
TPS40132RHBT	296-23328-1-ND	2-Phase Sync. Buck Controller	32-VQFN	9.01	7.48	6.80
TPS40132RHBT	296-23328-2-ND	2-Phase Sync. Buck Controller	32-VQFN	1445.00/250		
TPS40190DRCR	296-18340-1-ND	Synchronous Buck Controller	10-SON	3.33	2.57	2.33
TPS40190DRCR	296-18340-2-ND	Synchronous Buck Controller	10-SON	3849.00/3,000		
TPS40190EVM-001	296-19477-ND	Evaluation Module for TPS40190-001	—	49.38	—	—
TPS40192DRCR	296-21676-1-ND	4.5V~18V Input Sync. Buck Controller	10-SON	3.15	2.58	2.31
TPS40192DRCT	296-26966-1-ND	4.5V~18V Input Sync. Buck Controller* ***NEW!***	10-SON	3.75	3.07	2.75
TPS40192DRCT	296-26966-2-ND	4.5V~18V Input Sync. Buck Controller* ***NEW!***	10-SON	578.25/250		
TPS40192DRCR	296-21676-2-ND	4.5V~18V Input Sync. Buck Controller	10-SON	4191.00/3,000		
TPS40193DRCR	296-21677-1-ND	4.5V~18V Input Sync. Buck Controller	10-SON	3.15	2.58	2.31
TPS40193DRCR	296-21677-2-ND	4.5V~18V Input Sync. Buck Controller	10-SON	4189.50/3,000		
TPS40193DRCT	296-26967-1-ND	4.5V~18V Input Sync. Buck Controller* ***NEW!***	10-SON	3.75	3.07	2.75
TPS40193DRCT	296-26967-2-ND	4.5V~18V Input Sync. Buck Controller* ***NEW!***	10-SON	578.25/250		
TPS40195PWR	296-21617-1-ND	4.5V~20V Sync. Buck Controller	16-TSSOP	3.45	2.82	2.53
TPS40195PWR	296-21617-2-ND	4.5V~20V Sync. Buck Controller	16-TSSOP	3059.00/2,000		
TPS40195RGYR	296-22070-1-ND	4.5V~20V Sync. Buck Controller	16-VQFN	3.45	2.82	2.53
TPS40195RGYR	296-22070-2-ND	4.5V~20V Sync. Buck Controller	16-VQFN	4588.50/3,000		
TPS40197RGYR	296-23935-1-ND	4.5V~20V Sync. Buck Controller	16-QFN	5.25	4.29	3.85
TPS40197RGYR	296-23935-2-ND	4.5V~20V Sync. Buck Controller	16-QFN	6982.50/3,000		
TPS40210DGQR	296-26969-1-ND	4.5V~52V Input Current Mode Boost Controller* ***NEW!***	10-MSOP	3.47	2.68	2.43
TPS40210DGQR	296-26969-2-ND	4.5V~52V Input Current Mode Boost Controller* ***NEW!***	10-MSOP	3342.50/2,500		
TPS40222DRPR	296-26970-1-ND	1.6A, 1.25MHz Buck Conv.* ***NEW!***	6-SON	2.45	1.89	1.72
TPS40222DRPR	296-26970-2-ND	1.6A, 1.25MHz Buck Conv.* ***NEW!***	6-SON	2835.00/3,000		
TPS40222DRPT	296-19361-1-ND	1.6A, 1.25MHz Buck Converter	6-SON	2.98	2.30	2.09
TPS40222DRPT	296-19361-2-ND	1.6A, 1.25MHz Buck Converter	6-SON	425.00/250		
TPS40222EVM-001	296-21154-ND	Evaluation Module for TPS40222	—	25.50	—	—
TPS40303DRCT	296-25485-1-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	4.95	4.05	3.63
TPS40303DRCT	296-25485-2-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	763.25/250		
TPS40304DRCT	296-25486-1-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	5.10	4.17	3.74
TPS40304DRCT	296-25486-2-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	786.25/250		
TPS40305DRCT	296-25487-1-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	5.25	4.29	3.85
TPS40305DRCT	296-25487-2-ND	3V~20V Sync. Buck Controller* ***NEW!***	10-SON	809.50/250		
TPS51020DBTR	296-26971-1-ND	Dual Sync. Step-Down Ctrlr.* ***NEW!***	30-TSSOP	6.30	5.15	4.62
TPS51020DBTR	296-26971-2-ND	Dual Sync. Step-Down Ctrlr.* ***NEW!***	30-TSSOP	5586.00/2,000		
TPS51100DGQ	296-17851-5-ND	3A Sink/Source DDR Termination Reg.	10-MSOP	2.64	2.13	1.92
TPS51100EVM-001	296-17268-ND	Evaluation Module for TPS51100	—	50.00	—	—
TPS51113DRCT	296-24245-1-ND	Single Sync. Buck Controller* ***NEW!***	10-SON	3.45	2.82	2.53
TPS51113DRCT	296-24245-2-ND	Single Sync. Buck Controller* ***NEW!***	10-SON	532.00/250		
TPS51116EVM-001	296-18959-ND	Evaluation Module for TPS51116-001	—	50.00	—	—
TPS51116PWP	296-17243-ND	Synchronous Buck Controller	20-HTSSOP	4.06	3.27	2.98
TPS51116RGER	296-26973-1-ND	Sync. Buck Controller* ***NEW!***	24-QFN	3.60	2.94	2.64
TPS51116RGER	296-26973-2-ND	Sync. Buck Controller* ***NEW!***	24-QFN	4788.00/3,000		
TPS51116RGET	296-18638-1-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	4.20	3.43	3.08
TPS51116RGET	296-18638-2-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	647.50/250		
TPS51117PWR	296-26974-1-ND	Single Sync. Step-Down Controller* ***NEW!***	14-TSSOP	3.60	2.94	2.64
TPS51117PWR	296-26974-2-ND	Single Sync. Step-Down Controller* ***NEW!***	14-TSSOP	3192.00/2,000		
TPS51117RGYR	296-19889-1-ND	Single Sync. Buck Step-Down Cont.	14-QFN	3.60	2.94	2.64
TPS51117RGYR	296-19889-2-ND	Single Sync. Buck Step-Down Cont.	14-QFN	4788.00/3,000		
TPS51125ARGER	296-25557-1-ND	Dual Sync. Step-Down Controller* ***NEW!***	24-QFN	5.85	4.78	4.29
TPS51125ARGER	296-25557-2-ND	Dual Sync. Step-Down Controller* ***NEW!***	24-QFN	7782.00/3,000		
TPS51125RGET	296-22712-1-ND	Dual Synchronous Buck Controller	24-QFN	6.75	5.52	4.95
TPS51125RGET	296-22712-2-ND	Dual Synchronous Buck Controller	24-QFN	1040.75/250		
TPS51200DRCR	296-26978-1-ND	Sink/Source DDR Termination Reg.* ***NEW!***	10-SON	2.63	2.03	1.84
TPS51200DRCR	296-26978-2-ND	Sink/Source DDR Termination Reg.* ***NEW!***	10-SON	3039.00/3,000		
TPS51200DRCT	296-23830-1-ND	Sink/Source DDR Termination Reg.	10-SON	3.15	2.43	2.21
TPS51200DRCT	296-23830-2-ND	Sink/Source DDR Termination Reg.	10-SON	450.00/250		
TPS51200QDRCRQ1	296-25411-1-ND	Sink/Source DDR Termination Reg.* ***NEW!***	10-SON	3.15	2.58	2.31
TPS51200QDRCRQ1	296-25411-2-ND	Sink/Source DDR Termination Reg.* ***NEW!***	10-SON	4189.50/3,000		
TPS51218DSCT	296-24523-1-ND	Single Sync. Buck Controller* ***NEW!***	10-SON	4.50	3.68	3.30
TPS51218DSCT	296-24523-2-ND	Single Sync. Buck Controller* ***NEW!***	10-SON	693.75/250		
TPS51220ARSNT	296-25541-1-ND	Dual Sync. Buck Controller****NEW!***	32-QFN	6.89	5.72	5.20
TPS51220ARSNT	296-25541-2-ND	Dual Sync. Buck Controller****NEW!***	32-QFN	1105.00/250		
TPS51220ARTVR	296-24091-1-ND	Dual Synchronous Buck Regulator	32-QFN	6.75	5.52	4.95
TPS51220ARTVR	296-24091-2-ND	Dual Synchronous Buck Regulator	32-QFN	8979.00/3,000		
TPS51220ARTVT	296-25816-1-ND	Dual Synchronous Buck Reg.* ***NEW!***	32-QFN	6.89	5.72	5.20
TPS51220ARTVT	296-25816-2-ND	Dual Synchronous Buck Reg.* ***NEW!***	32-QFN	1105.00/250		
TPS51220RHBR	296-22940-1-ND	Dual Synchronous Buck Regulator	32-VQFN	6.75	5.52	4.95
TPS51220RHBR	296-22940-2-ND	Dual Synchronous Buck Regulator	32-VQFN	8979.00/3,000		
TPS51221RTVR	296-22888-1-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	6.75	5.52	4.95
TPS51221RTVR	296-22888-2-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	8977.50/3,000		

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS51222RTVR	296-24130-1-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	7.95	6.60	6.00
TPS51222RTVR	296-24130-2-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	11700.00/3,000		
TPS51222RTVT	296-24166-1-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	9.14	7.59	6.90
TPS51222RTVT	296-24166-2-ND	Dual Sync. Buck Reg. Controller with 2 LDOs	32-QFN	1466.25/250		
TPS51315RGFT	296-24569-1-ND	10A Sync. Buck Converter* ***NEW!***	40-QFN	8.08	6.71	6.10
TPS51315RGFT	296-24569-2-ND	10A Sync. Buck Converter* ***NEW!***	40-QFN	1296.25/250		
TPS51513RHBT	296-25224-1-ND	25A Sync. Buck Controller* ***NEW!***	32-QFN	4.50	3.68	3.30
TPS51513RHBT	296-25224-2-ND	25A Sync. Buck Controller* ***NEW!***	32-QFN	693.75/250		
TPS51610IRHBT	296-24320-1-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	5.85	4.78	4.29
TPS51610IRHBT	296-24320-2-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	902.00/250		
TPS51610RHBR	296-26981-1-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	4.50	3.68	3.30
TPS51610RHBR	296-26981-2-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	5985.00/3,000		
TPS51611RHBR	296-25437-1-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	4.50	3.68	3.30
TPS51611RHBR	296-25437-2-ND	Single Phase Sync. Buck Controller* ***NEW!***	32-QFN	5985.00/3,000		
TPS51621RHAT	296-25477-1-ND	Dual Sync. D-CAP+™ Buck Controller* ***NEW!***	40-VQFN	6.90	5.64	5.06
TPS51621RHAT	296-25477-2-ND	Dual Sync. D-CAP+™ Buck Controller* ***NEW!***	40-VQFN	1063.75/250		
TPS53125RGET	296-25653-1-ND	Dual Sync. Step-Down Controller* ***NEW!***	24-VQFN	7.16	5.94	5.40
TPS53125RGET	296-25653-2-ND	Dual Sync. Step-Down Controller* ***NEW!***	24-VQFN	1147.50/250		
TPS53126PWR	296-24555-1-ND	Dual Sync. Buck Controller* ***NEW!***	24-TSSOP	7.20	5.88	5.28
TPS53126PWR	296-24555-2-ND	Dual Sync. Buck Controller* ***NEW!***	24-TSSOP	6384.00/2,000		
TPS53126RGER	296-24556-1-ND	Dual Sync. Buck Controller* ***NEW!***	24-VQFN	7.05	5.76	5.17
TPS53126RGER	296-24556-2-ND	Dual Sync. Buck Controller* ***NEW!***	24-VQFN	9376.50/3,000		
TPS54010PWP	296-17288-5-ND	14A Output Sync. Buck PWM Switcher	28-HTSSOP	11.22	9.44	8.67
TPS54073EVM-098	296-21155-ND	Evaluation Module for TPS54073	—	50.00	—	—
TPS54073PWP	296-17775-ND	2.2V~4V, 14A Sync. Buck Converter	28-HTSSOP	17.60	14.80	13.60
TPS54110PWP	296-17086-ND	3V to 6V Input, 1.5A Output Sync. Buck PWM Switcher	20-HTSSOP	6.44	5.18	4.72
TPS54110PWPR	296-26983-1-ND	3V to 6V Input, 1.5A Output Sync. Buck PWM Switcher* ***NEW!***	20-HTSSOP	5.70	4.66	4.18
TPS54110PWPR	296-26983-2-ND	3V to 6V Input, 1.5A Output Sync. Buck PWM Switcher* ***NEW!***	20-HTSSOP	5054.00/2,000		
TPS54110QPWPRQ1	296-23713-1-ND	3V~6V Input, 1.5A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.52	4.95
TPS54110QPWPRQ1	296-23713-2-ND	3V~6V Input, 1.5A Output Sync. Buck PWM Switcher	20-HTSSOP	5986.00/2,000		
TPS54286PWP	296-26987-5-ND	2A Dual Non-Sync. Converter* ***NEW!***	14-HTSSOP	7.25	5.95	5.37
TPS54286PWPR	296-23086-1-ND	2A Dual Non-Sync. Converter	14-HTSSOP	7.20	5.88	5.28
TPS54286PWPR	296-23086-2-ND	2A Dual Non-Sync. Converter	14-HTSSOP	6384.00/2,000		
TPS54290PWPR	296-25433-1-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7.82	6.49	5.90
TPS54290PWPR	296-25433-2-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7670.00/2,000		
TPS54291PWPR	296-25434-1-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7.82	6.49	5.90
TPS54291PWPR	296-25434-2-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7670.00/2,000		
TPS54292PWPR	296-25435-1-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7.82	6.49	5.90
TPS54292PWPR	296-25435-2-ND	Dual Sync. Buck Converter* ***NEW!***	16-HTSSOP	7670.00/2,000		
TPS54310EVM	296-13574-ND	Evaluation Module for TPS54310	—	10.20	—	—
TPS54310MPWPREP	296-23424-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	11.93	9.90	9.00
TPS54310MPWPREP	296-23424-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	11700.00/2,000		
TPS54310PWP	296-12509-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54310QPWPRQ1	296-22941-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	7.02	5.83	5.30
TPS54310QPWPRQ1	296-22941-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6890.00/2,000		
TPS54311MPWPREP	296-22448-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54311MPWPREP	296-22448-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54311PWP	296-12679-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	8.50	6.97	6.29
TPS54312MPWPREP	296-22449-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54312MPWPREP	296-22449-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54312PWP	296-12680-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54312QPWPREP	296-22450-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	3.00	2.45	2.20
TPS54312QPWPREP	296-22450-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	2660.00/2,000		
TPS54313MPWPREP	296-22451-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54313MPWPREP	296-22451-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54313PWP	296-12681-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54314EVM	296-13575-ND	Evaluation Module for TPS54314	—	10.20	—	—
TPS54314MPWPREP	296-22452-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54314MPWPREP	296-22452-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54314PWP	296-12682-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54315MPWPREP	296-22453-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54315MPWPREP	296-22453-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54315PWP	296-12683-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54315QPWPREP	296-22454-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	3.00	2.45	2.20
TPS54315QPWPREP	296-22454-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	2660.00/2,000		
TPS54315QPWPRQ1	296-23074-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	7.02	5.83	5.30
TPS54315QPWPRQ1	296-23074-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6890.00/2,000		
TPS54316MPWPREP	296-22455-1-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12.46	10.34	9.40
TPS54316MPWPREP	296-22455-2-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	12220.00/2,000		
TPS54316PWP	296-12684-5-ND	3V~6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54317EVM-159	296-21157-ND	Evaluation Module for TPS54317	—	10.20	—	—
TPS54317RHFT	296-19742-1-ND	3V~6V Input, 3A, Sync. Step-Down SWIFT™ Switcher	24-QFN	7.69	6.38	5.80
TPS54317RHFT	296-19742-2-ND	3V~6V Input, 3A, Sync. Step-Down SWIFT™ Switcher	24-QFN	1232.50/250		
TPS54318EVM-512	296-25233-ND	Evaluation Module for TPS54318-512 ***NEW!***	—	25.50	—	—
TPS54318RTER	296-25292-1-ND	2.95V~6V Input, 3A, Sync. Step-Down SWIFT™ Switcher* ***NEW!***	16-QFN	6.00	4.90	4.40
TPS54318RTER	296-25292-2-ND	2.95V~6V Input, 3A, Sync. Step-Down SWIFT™ Switcher* ***NEW!***	16-QFN	7980.00/3,000		
TPS54318RTET	296-25189-1-ND	2.95V to 6V Input, 3A Output Sync. Buck Converter* ***NEW!***	16-QFN	6.90	5.64	5.06
TPS54318RTET	296-25189-2-ND	2.95V to 6V Input, 3A Output Sync. Buck Converter* ***NEW!***	16-QFN	1063.75/250		
TPS54325PWPR	296-24557-1-ND	4.5V~18V Input, 3A Output Sync. Buck Converter* ***NEW!***	14-HTSSOP	4.65	3.80	3.41
TPS54325PWPR	296-24557-2-ND	4.5V~18V Input, 3A Output Sync. Buck Converter* ***NEW!***	14-HTSSOP	4123.00/2,000		
TPS54350EVM-235	296-18962-ND	Evaluation Module for TPS54350-235	—	10.20	—	—
TPS54350MPWPREP	296-19527-1-ND	4.5V~20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10.34	8.58	7.80
TPS54350MPWPREP	296-19527-2-ND	4.5V~20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10140.00/2,000		
TPS54350PWP	296-15882-5-ND	4.5V~20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	6.30	5.07	4.62
TPS54352PWP	296-17069-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	6.30	5.07	4.62
TPS54353PWP	296-17070-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	6.30	5.07	4.62
TPS54354PWP	296-17071-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	7.00	5.74	5.18
TPS54355PWP	296-17072-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	7.00	5.74	5.18
TPS54356EVM-058	296-18963-ND	Evaluation Module for TPS54356-058	—	10.20	—	—
TPS54356PWP	296-17073-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	6.30	5.07	4.62
TPS54357PWP	296-17074-ND	4.5V~20V Input, 3A Output, Sync. PWM Switcher	16-HTSSOP	7.00	5.74	5.18
TPS54372QPWPRQ1	296-24341-1-ND	3A Sync. PWM Switcher* ***NEW!***	20-HTSSOP	7.02	5.83	5.30
TPS54372QPWPRQ1	296-24341-2-ND	3A Sync. PWM Switcher* ***NEW!***	20-HTSSOP	6890.00/2,000		
TPS54373EVM-237	296-18964-ND	Evaluation Module for TPS54373-237	—	10.20	—	—
TPS54373PWP	296-14327-5-ND	3A Sync. Buck Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54380EVM-001	296-18965-ND	Evaluation Module for TPS54380-001	—	10.20	—	—
TPS54380PWP	296-14391-ND	3A Sync. Buck PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54380QPWPRQ1	296-23865-1-ND	3V~6V Input, 3A Output Tracking Sync. Buck PWM Switcher	20-HTSSOP	7.02	5.83	5.30
TPS54380QPWPRQ1	296-23865-2-ND	3V~6V Input, 3A Output Tracking Sync. Buck PWM Switcher	20-HTSSOP	6890.00/2,000		
TPS54383PWPR	296-23087-1-ND	3A Dual Non-Sync. Converter	14-HTSSOP	7.02	5.83	5.30
TPS54383PWPR	296-23087-2-ND	3A Dual Non-Sync. Converter	14-HTSSOP	6890.00/2,000		
TPS54386PWP	296-26996-5-ND	3A Dual Non-Sync. Converter* ***NEW!***	14-HTSSOP	8.00	6.56	5.92
TPS54418RTER	296-24553-1-ND	4A Dual Sync. Buck Converter* ***NEW!***	16-QFN	7.05	5.76	5.17
TPS54418RTER	296-24553-2-ND	4A Dual Sync. Buck Converter* ***NEW!***	16-QFN	9378.00/3,000		
TPS54418RTET	296-24567-1-ND	4A Dual Sync. Buck Converter* ***NEW!***	16-QFN	7.16	5.94	5.40
TPS54418RTET	296-24567-2-ND	4A Dual Sync. Buck Converter* ***NEW!***	16-QFN	1147.50/250		
TPS54610EVM-192	296-13576-ND	Evaluation Module for TPS54610	—	10.20	—	—
TPS54610EVM-213	296-20596-ND	Evaluation Module for TPS54610	—	10.20	—	—
TPS54610MPWPREP	296-19433-1-ND	3V~6V, 6A Sync. Buck PWM Switcher	28-HTSSOP	14.65	12.43	11.47
TPS54610MPWPREP	296-19433-2-ND	3V~6V, 6A Sync. Buck PWM Switcher	28-HTSSOP	16243.50/2,000		
TPS54610PWP	296-12123-5-ND	3V~6V, 6A Sync. Buck PWM Switcher	28-HTSSOP	9.63	7.90	7.13
TPS54612PWP	296-12125-5-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.63	7.90	7.13
TPS54612QPWPRQ1	296-21678-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.94	8.25	7.50
TPS54612QPWPRQ1	296-21678-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9750.00/2,000		
TPS54613MPWPREP	296-19528-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	14.65	12.43	11.47
TPS54613MPWPREP	296-19528-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	16243.50/2,000		
TPS54614EVM-183	296-12240-ND	Evaluation Module for TPS54614	—	10.20	—	—
TPS54614MPWPREP	296-22459-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	3.00	2.45	2.20
TPS54614MPWPREP	296-22459-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	2660.00/2,000		
TPS54614PWP	296-12127-5-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.63	7.90	7.13
TPS54614QPWPRQ1	296-21679-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.94	8.25	7.50
TPS54614QPWPRQ1	296-21679-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9750.00/2,000		
TPS54615MPWPREP	296-19529-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	14.65	12.43	11.47
TPS54615MPWPREP	296-19529-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	16243.50/2,000		
TPS54615QPWPRQ1	296-21680-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.94	8.25	7.50
TPS54615QPWPRQ1	296-21680-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9750.00/2,000		
TPS54616PWP	296-12129-5-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher* ***NEW!***	28-HTSSOP	9.63	7.90	7.13
TPS54616QPWPRQ1	296-22461-1-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9.94	8.25	7.50

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS54616QPWPRQ1	296-22461-2-ND	3V~6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9750.00/2,000		
TPS54620EVM-374	296-24566-ND	Eval. Module for TPS54620 ***NEW!***	—	25.50	—	—
TPS54620RGYR	296-24554-1-ND	17V Input, 6A Output Sync. Buck Switcher* ***NEW!***	14-QFN	6.63	5.50	5.00
TPS54620RGYR	296-24554-2-ND	17V Input, 6A Output Sync. Buck Switcher* ***NEW!***	14-QFN	9750.00/3,000		
TPS54620RGYT	296-24568-1-ND	17V Input, 6A Output Sync. Buck Switcher* ***NEW!***	14-QFN	7.69	6.38	5.80
TPS54620RGYT	296-24568-2-ND	17V Input, 6A Output Sync. Buck Switcher* ***NEW!***	14-QFN	1232.50/250		
TPS54673EVM	296-20598-ND	Evaluation Module for TPS54673	—	10.20	—	—
TPS54673PWP	296-13828-5-ND	3V~6V In, 6A Sync. Buck Switcher	28-HTSSOP	9.63	7.90	7.13
TPS54680EVM	296-20599-ND	Evaluation Module for TPS54680	—	50.00	—	—
TPS54680PWP	296-13829-5-ND	3V~6V Input, 6A Sync. Buck PWM Switcher (Swift)	28-HTSSOP	9.63	7.90	7.13
TPS54680QPWPREP	296-18153-1-ND	3V~6V Input, 6A Sync. Buck PWM Switcher (Swift)	28-HTSSOP	11.71	9.93	9.17
TPS54680QPWPREP	296-18153-2-ND	3V~6V Input, 6A Sync. Buck PWM Switcher (Swift)	28-HTSSOP	12979.50/2,000		
TPS54810EVM-213	296-20600-ND	Evaluation Module for TPS54810	—	10.20	—	—
TPS54810PWP	296-12715-5-ND	Sync. Buck PWM Converter	28-HTSSOP	11.00	9.02	8.14
TPS54872EVM-222	296-20601-ND	Evaluation Module for TPS54872	—	10.20	—	—
TPS54872PWP	296-15674-5-ND	Synchronous PWM Switcher	28-TSSOP	12.10	10.18	9.35
TPS54873EVM	296-20602-ND	Evaluation Module for TPS54873	—	10.20	—	—
TPS54873PWP	296-13830-5-ND	4V~6V, 8A Sync. Buck Switcher	28-HTSSOP	12.10	10.18	9.35
TPS54880EVM	296-20603-ND	Evaluation Module for TPS54880	—	50.00	—	—
TPS54880PWP	296-13831-5-ND	4V~6V, 8A Sync. Buck PWM Switcher (Swift)	28-HTSSOP	12.10	10.18	9.35
TPS54972EVM-222	296-20605-ND	Evaluation Module for TPS54972	—	10.20	—	—
TPS54972PWP	296-15675-5-ND	Synchronous PWM Switcher	28-TSSOP	11.00	9.02	8.14
TPS54973EVM-017	296-18966-ND	Evaluation Module for TPS54973-017	—	10.20	—	—
TPS54973PWP	296-14414-5-ND	9A Sync. Buck Switcher	28-HTSSOP	11.00	9.02	8.14
TPS54980EVM-022	296-18967-ND	Evaluation Module for TPS54980-022	—	10.20	—	—
TPS54980PWP	296-14415-5-ND	9A Sync. Buck PWM Switcher	28-HTSSOP	12.10	10.18	9.35
TPS55065QPWPRQ1	296-24678-1-ND	Buck/Boost Switch-Mode Regulator* ***NEW!***	20-HTSSOP	4.65	3.80	3.41
TPS55065QPWPRQ1	296-24678-2-ND	Buck/Boost Switch-Mode Regulator* ***NEW!***	20-HTSSOP	4123.00/2,000		
TPS60204DGS	296-27002-5-ND	3.3V, 100mA Low-Ripple Charge Pump, LP DC/DC Converter* ***NEW!***	10-MSOP	2.80	2.25	2.05
TPS60240DGKR	296-12510-1-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.10	1.62	1.47
TPS60240DGKR	296-12510-2-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2025.00/2,500		
TPS60241DGKT	296-12241-1-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.10	1.62	1.47
TPS60241DGKT	296-12241-2-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2025.00/2,500		
TPS60241EVM-194	296-13579-ND	Evaluation Module for TPS60241	—	50.00	—	—
TPS60242DGKT	296-12511-5-ND	2.7V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.17	1.75	1.58
TPS60243DGKT	296-12512-5-ND	3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.17	1.75	1.58
TPS61087DRCR	296-27012-1-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	10-SON	4.80	3.92	3.52
TPS61087DRCR	296-27012-2-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	10-SON	6384.00/3,000		
TPS61175PWP	296-27016-5-ND	3A High Voltage Boost Converter* ***NEW!***	14-HTSSOP	6.16	4.95	4.51
TPS61240YFFR	296-24409-1-ND	5V High Eff. Step-Up Conv.* ***NEW!***	6-DSBGA	2.66	2.06	1.87
TPS61240YFFR	296-24409-2-ND	5V High Eff. Step-Up Conv.* ***NEW!***	6-DSBGA	3078.00/3,000		
TPS62006DGS	296-27021-5-ND	High-Efficiency Step-Down LP DC/DC Converter* ***NEW!***	10-MSOP	4.48	3.60	3.28
TPS62042DGQ	296-27022-5-ND	1.2A/1.25MHz, High Efficiency Step-Down Converter* ***NEW!***	10-MSOP	4.76	3.83	3.49
TPS62050DGS	296-14208-5-ND	800mA Sync. Step-Down Converter* ***NEW!***	10-MSOP	3.08	2.48	2.26
TPS62100D	296-10976-5-ND	Adjustable Sync. Buck Converter	8-SOP	5.04	4.05	3.69
TPS62101D	296-10977-5-ND	Adjustable Sync. Buck Converter	8-SOP	5.04	4.05	3.69
TPS62102D	296-10978-5-ND	Adjustable Sync. Buck Converter	8-SOP	5.04	4.05	3.69
TPS62102EVM	296-13589-ND	Evaluation Module for TPS62102	—	50.00	—	—
TPS62103D	296-10979-5-ND	Adjustable Sync. Buck Converter	8-SOP	6.86	5.52	5.03
TPS62113RSAT	296-27025-1-ND	17V, 1.5A Sync. Step-Down Converter* ***NEW!***	16-QFN	4.50	3.68	3.30
TPS62113RSAT	296-27025-2-ND	17V, 1.5A Sync. Step-Down Converter* ***NEW!***	16-QFN	693.75/250		
TPS62207DBVR	296-27027-1-ND	High Eff., Step-Down, DC/DC Conv.* ***NEW!***	SOT-23-5	2.63	2.03	1.84
TPS62207DBVR	296-27027-2-ND	High Eff., Step-Down, DC/DC Conv.* ***NEW!***	SOT-23-5	3039.00/3,000		
TPS62230DRYT	296-24484-1-ND	2.5V Sync. Buck Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62230DRYT	296-24484-2-ND	2.5V Sync. Buck Converter* ***NEW!***	6-SON	275.00/250		
TPS62231DRYT	296-24485-1-ND	1.8V Sync. Buck Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62231DRYT	296-24485-2-ND	1.8V Sync. Buck Converter* ***NEW!***	6-SON	275.00/250		
TPS62232DRYT	296-24486-1-ND	1.2V Sync. Buck Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62232DRYT	296-24486-2-ND	1.2V Sync. Buck Converter* ***NEW!***	6-SON	275.00/250		
TPS63000DRCR	296-19641-1-ND	Adj. Single Inductor Buck Boost Conv.	10-SON	4.50	3.68	3.30
TPS63000DRCR	296-19641-2-ND	Adj. Single Inductor Buck Boost Conv.	10-SON	5985.00/3,000		
TPS63000EVM-148	296-19642-ND	Evaluation Module for TPS63000	—	50.00	—	—
TPS63000IDRCRQ1	296-24851-1-ND	Adj. Single Inductor Buck Boost Converter* ***NEW!***	10-SON	5.40	4.41	3.96
TPS63000IDRCRQ1	296-24851-2-ND	Adj. Single Inductor Buck Boost Converter* ***NEW!***	10-SON	7182.00/3,000		
TPS63001DRCR	296-19643-1-ND	3.3V Single Inductor Buck Boost Conv.	10-SON	4.50	3.68	3.30
TPS63001DRCR	296-19643-2-ND	3.3V Single Inductor Buck Boost Conv.	10-SON	5985.00/3,000		
TPS63002DRCR	296-19644-1-ND	5V Single Inductor Buck Boost Conv.	10-SON	4.50	3.68	3.30
TPS63002DRCR	296-19644-2-ND	5V Single Inductor Buck Boost Conv.	10-SON	5985.00/3,000		
TPS63010YFFR	296-23571-1-ND	Adj., High Efficient Single Inductor Buck Boost Converter	20-DSBGA	4.50	3.68	3.30
TPS63010YFFR	296-23571-2-ND	Adj., High Efficient Single Inductor Buck Boost Converter	20-DSBGA	5985.00/3,000		
TPS63010YFFT	296-27033-1-ND	Adj., High Efficient Single Inductor Buck Boost Converter* ***NEW!***	20-DSBGA	5.10	4.17	3.74
TPS63010YFFT	296-27033-2-ND	Adj., High Efficient Single Inductor Buck Boost Converter* ***NEW!***	20-DSBGA	786.25/250		
TPS63011YFFR	296-23572-1-ND	2.8V, High Efficiency Single Inductor Buck Boost Converter	20-DSBGA	4.50	3.68	3.30
TPS63011YFFR	296-23572-2-ND	2.8V, High Efficiency Single Inductor Buck Boost Converter	20-DSBGA	5985.00/3,000		
TPS63012YFFR	296-23573-1-ND	2.9V, High Efficiency Single Inductor Buck Boost Converter	20-DSBGA	4.50	3.68	3.30
TPS63012YFFR	296-23573-2-ND	2.9V, High Efficiency Single Inductor Buck Boost Converter	20-DSBGA	5985.00/3,000		
TPS64200DBVR	296-27034-1-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	1.93	1.49	1.35
TPS64200DBVR	296-27034-2-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	2229.00/3,000		
TPS64202DBVR	296-27035-1-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	1.93	1.49	1.35
TPS64202DBVR	296-27035-2-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	2229.00/3,000		
TPS64203DBVR	296-27036-1-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	1.93	1.49	1.35
TPS64203DBVR	296-27036-2-ND	Adj., Non-Sync. Step-Down Controller* ***NEW!***	SOT-23-6	2229.00/3,000		
UCC2541PWP	296-19371-ND	High Eff. Sync. Buck PWM Controller	20-HTSSOP	6.16	4.95	4.51
UCC2541RHBR	296-19372-1-ND	High Eff. Sync. Buck PWM Controller	32-VQFN	5.55	4.54	4.07
UCC2541RHBR	296-19372-2-ND	High Eff. Sync. Buck PWM Controller	32-VQFN	7381.50/3,000		
UCC3585D	296-11448-5-ND	Low Voltage Buck Controller	16-SOIC	4.34	3.49	3.18
UCC3585EVM-014	296-11449-ND	Evaluation Module for UCC3585	—	49.38	—	—
UCC3585M	296-11450-5-ND	Low Voltage Buck Controller	16-QSOP	4.34	3.49	3.18
UCC3585N	296-11451-5-ND	Low Voltage Buck Controller	16-Dip	4.34	3.49	3.18
UCC27221PWP	296-14216-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	4.48	3.60	3.28
UCC27222PWP	296-14217-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	4.48	3.60	3.28
UCC27223PWP	296-19035-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	5.32	4.28	3.90
UCD7230ARGWR	296-25543-1-ND	Sync. Buck Gate Driver* ***NEW!***	20-VQFN	2.10	1.62	1.47
UCD7230ARGWR	296-25543-2-ND	Sync. Buck Gate Driver* ***NEW!***	20-VQFN	2430.00/3,000		
UCD7230PWPR	296-21688-1-ND	Digital Control Compatible Sync. Buck Gate Driver	20-HTSSOP	2.10	1.62	1.47
UCD7230PWPR	296-21688-2-ND	Digital Control Compatible Sync. Buck Gate Driver	20-HTSSOP	1620.00/2,000		
UCD7230RGWR	296-21689-1-ND	Digital Control Compatible Sync. Buck Gate Driver	20-VQFN	2.10	1.62	1.47
UCD7230RGWR	296-21689-2-ND	Digital Control Compatible Sync. Buck Gate Driver	20-VQFN	2430.00/3,000		
UCD7231RTJT	296-25467-1-ND	Sync. Buck Gate Driver* ***NEW!***	20-QFN	2.45	1.89	1.72
UCD7231RTJT	296-25467-2-ND	Sync. Buck Gate Driver* ***NEW!***	20-QFN	350.00/250		
UCD7242RSJR	296-25793-1-ND	Digital Dual Sync. Buck Power Driver* ***NEW!***	32-QFN	7.02	5.83	5.30
UCD7242RSJR	296-25793-2-ND	Digital Dual Sync. Buck Power Driver* ***NEW!***	32-QFN	8612.50/2,500		
UCD9112RHBT	296-22539-1-ND	Digital Dual Phase Sync. Buck Cont.	32-VQFN	6.00	4.90	4.40
UCD9112RHBT	296-22539-2-ND	Digital Dual Phase Sync. Buck Cont.	32-VQFN	925.00/250		
		DC-to-DC Converters				
DCP021212DU	296-9446-5-ND	2W Unregulated DC/DC Converter	28-SOIC	15.18	12.77	11.73
DCP021212U	296-9447-5-ND	2W Unregulated DC/DC Converter	28-SOIC	15.18	12.77	11.73
DCP021515U	296-9448-5-ND	2W Unregulated DC/DC Converter	28-SOIC	15.18	12.77	11.73
DCP022405U	296-12367-5-ND	2W DC/DC Conv., 24V In, ±5V Out	28-SOIC	15.18	12.77	11.73
DCP022415DU	296-9449-5-ND	2W Unregulated DC/DC Converter	28-SOIC	15.18	12.77	11.73
DCP022418DP	296-19410-5-ND	2W Unregulated DC/DC Converter	14-Dip	15.29	12.86	11.82
DCP010505BP	DCP010505BP-ND	Isolated DC/DC Conv., 5V In, 5V Out	14-Dip	11.77	9.90	9.10
DCP010505BP-U	DCP010505BP-U-ND	Isolated DC/DC Conv., 5V In, 5V Out	14-SOP	14.08	11.84	10.88
DCP010505DBP	DCP010505DBP-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-Dip	11.77	9.90	9.10
DCP010505DBP-U	DCP010505DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-SOP	14.08	11.84	10.88
DCP010507DBPUE4	296-18686-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	14-SOP	14.19	11.94	10.97
DCP010507DBPE4	296-18687-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	14-Dip	11.77	9.90	9.10
DCP010512BP	DCP010512BP-ND	Isolated DC-DC Conv., 5V In, 12V Out	14-Dip	11.77	9.90	9.10
DCP010512BP-U	DCP010512BP-U-ND	Isolated DC/DC Conv., 5V In, 12V Out	14-SOP	14.08	11.84	10.88
DCP010512DBP	DCP010512DBP-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	11.77	9.90	9.10
DCP010512DBP-U	DCP010512DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-SOP	14.08	11.84	10.88
DCP010515BP	DCP010515BP-ND	Isolated DC/DC Conv., 5V In, 15V Out	14-Dip	11.77	9.90	9.10
DCP010515BP-U	DCP010515BP-U-ND	Isolated DC/DC Conv., 5V In, 15V Out	14-SOP	14.08	11.84	10.88
DCP010515DBP	DCP010515DBP-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	11.77	9.90	9.10
DCP010515DBP-U	DCP010515DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-SOP	14.08	11.84	10.88
DCP011512DBP	DCP011512DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-Dip	11.77	9.90	9.10
DCP011512DBP-U	DCP011512DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-SOP	14.19	11.94	10.97
DCP011515DBP	DCP011515DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-Dip	11.77	9.90	9.10
DCP011515DBP-U	DCP011515DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-SOP	14.19	11.94	10.97
DCP012405BP	DCP012405BP-ND	Isolated DC/DC Conv., 24V In, 5V Out	14-Dip	11.77	9.90	9.10
DCP012405BP-U	DCP012405BP-U-ND	Isolated DC/DC Conv., 24V In, 5V Out	14-SOP	11.77	9.90	9.10
DCP012415DBP	DCP012415DBP-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-Dip	11.77	9.90	9.10
DCP012415DBP-U	DCP012415DBP-U-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-SOP	14.19	11.94	10.97
DCP020503P	DCP020503P-ND	2W DC/DC Converter, 5V In, 3V Out	14-Dip	12.65	10.64	9.78
DCP020503U	DCP020503U-ND	2W DC/DC Converter, 5V In, 3V Out	28-SOIC	12.65	10.64	9.78
DCP020505P	DCP020505P-ND	2W DC/DC Converter, 5V In, 5V Out	14-Dip	12.65	10.64	9.78
DCP020505U	DCP020505U-ND	2W DC/DC Converter, 5V In, 5V Out	28-SOIC	15.18	12.77	11.73
DCP020507P	DCP020507P-ND	2W DC/DC Converter, 5V In, 7V Out	14-Dip	12.65	10.64	9.78
DCP020507U	DCP020507U-ND	2W DC/DC Converter, 5V In, 7V Out	28-SOIC	15.18	12.77	11.73
DCP020509P	DCP020509P-ND	2W DC/DC Converter, 5V In, 9V Out	14-Dip	12.65	10.64	9.78
DCP020509U	DCP020509U-ND	2W DC/DC Converter, 5V In, 9V Out	28-SOIC	12.65	10.64	9.78
DCP020515DP	DCP020515DP-ND	2W DC/DC Converter, 5V In, ±15V Out	14-Dip	12.65	10.64	9.78
DCP020515DU	DCP020515DU-ND	2W DC/DC Converter, 5V In, ±15V Out	28-SOIC	15.18	12.77	11.73
DCP021205P	DCP021205P-ND	2W DC/DC Converter, 12V In, 5V Out	14-Dip	12.65	10.64	9.78
DCP021205U	DCP021205U-ND	2W DC/DC Converter, 12V In, 5V Out	28-SOIC	15.18	12.77	11.73
DCP021212DP	DCP021212DP-ND	2W DC/DC Conv., 12V In, ±12V Out	14-Dip	12.65	10.64	9.78
DCP021212P	DCP021212P-ND	2W DC/DC Converter, 12V In, 12V Out	14-Dip	12.65	10.64	9.78
DCP021515P	DCP021515P-ND	2W DC/DC Converter, 15V In, 15V Out	14-Dip	12.65	10.64	9.78
DCP022405DP	DCP022405DP-ND	2W DC/DC Converter, 24V In, ±5V Out	14-Dip	12.65	10.64	9.78
DCP022405P	DCP022405P-ND	2W DC/DC Converter, 24V In, 5V Out	14-Dip	12.65	10.64	9.78
DCP022415DP	DCP022415DP-ND	2W DC/DC Conv., 24V In, ±15V Out	14-Dip	12.65	10.64	9.78
DCR010503P	DCR010503P-ND	Isolated DC/DC Converter, 5V to 3V	18-Dip	13.09	11.01	10.12

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DCR010503U	296-9450-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR010505P	DCR010505P-ND	Isolated DC/DC Converter, 5V to 5V	18-Dip	13.09	11.01	10.12
DCR010505U	296-9451-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR011203P	DCR011203P-ND	DC/DC Converter, 12V to 3V	18-Dip	13.09	11.01	10.12
DCR011203U	296-9452-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR011205P	DCR011205P-ND	DC/DC Converter, 12V to 5V	18-Dip	13.09	11.01	10.12
DCR011205U	296-9453-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR012403P	296-9454-5-ND	1W Regulated DC/DC Converter	18-Dip	13.09	11.01	10.12
DCR012403U	296-9455-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR012405P	296-9456-5-ND	1W Regulated DC/DC Converter	18-Dip	13.09	11.01	10.12
DCR012405U	296-9457-5-ND	1W Regulated DC/DC Converter	28-SOIC	15.73	13.23	12.16
DCR021205P	296-9458-5-ND	2W Regulated DC/DC Converter	18-Dip	13.97	11.75	10.80
DCR021205P-U	296-18420-5-ND	2W Regulated DC/DC Converter	10-SOP	13.97	11.75	10.80
DCR022405P	296-9459-5-ND	2W Regulated DC/DC Converter	18-Dip	13.97	11.75	10.80
DCR022405P-U	296-17138-ND	2W Regulated DC/DC Converter	18-SOP	16.83	14.16	13.01
DCV010505DP	296-13450-5-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	12.98	10.92	10.03
DCV010505P	DCV010505P-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	12.98	10.92	10.03
DCV010505P-U	DCV010505P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-SOP	15.62	13.14	12.07
DCV010512DP	DCV010512DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	12.98	10.92	10.03
DCV010512DP-U	DCV010512DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	7-SOP	15.62	13.14	12.07
DCV010512P	DCV010512P-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-Dip	12.98	10.92	10.03
DCV010512P-U	DCV010512P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-SOP	15.62	13.14	12.07
DCV010515DP	DCV010515DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	12.98	10.92	10.03
DCV010515DP-U	DCV010515DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-SOP	12.98	10.92	10.03
DCV010515P	DCV010515P-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	12.98	10.92	10.03
DCV010515P-U	DCV010515P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-SOP	12.98	10.92	10.03
DCV011512DP	DCV011512DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-Dip	12.98	10.92	10.03
DCV011512DP-U	DCV011512DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-SOP	15.62	13.14	12.07
DCV011512DP-U/700	DCV011512DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-SOP	5988.50/700		
DCV011515DP	DCV011515DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-Dip	12.98	10.92	10.03
DCV011515DP-U	DCV011515DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-SOP	15.62	13.14	12.07
DCV011515DP-U/700	DCV011515DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	147-SOP	5988.50/700		
DCV012405P	DCV012405P-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	12.98	10.92	10.03
DCV012405P-U	DCV012405P-U-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-SOP	15.62	13.14	12.07
DCV012405P-U/700	DCV012405P-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-SOP	5988.50/700		
DCV012415DP	DCV012415DP-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-Dip	12.98	10.92	10.03
DCV012415DP-U	DCV012415DP-U-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	15.62	13.14	12.07
DCV012415DP-U/700	DCV012415DP-UCT-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	13.57	11.51	10.62
DCV012415DP-U/700	DCV012415DP-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	5988.50/700		
LT1054CDW	296-9590-5-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	3.08	2.48	2.26
LT1054CDWR	296-14618-1-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	3.15	2.43	2.21
LT1054CDWR	296-14618-2-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	2430.00/2,000		
LT1054CP	296-9591-5-ND	Switched-Cap Voltage Conv. with Reg.	8-Dip	3.22	2.59	2.36
LT1054IDW	296-9592-5-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	3.08	2.48	2.26
LT1054IDWR	296-17595-1-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	3.15	2.43	2.21
LT1054IDWR	296-17595-2-ND	Switched-Cap Voltage Conv. with Reg.	16-SOIC	2430.00/2,000		
LT1054IP	296-17596-5-ND	Switched-Cap Voltage Conv. with Reg.	8-Dip	2.80	2.25	2.05
REG710EVM-5	296-13557-ND	Evaluation Module for REG710-XX	—	50.00	—	—
REG710EVM-33	296-13556-ND	Evaluation Module for REG710-XX	—	50.00	—	—
REG710NA-2.5/250	296-12133-1-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	1.93	1.49	1.35
REG710NA-2.5/250	296-12133-2-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	275.00/250		
REG710NA-2.7/250	296-12134-1-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	1.93	1.49	1.35
REG710NA-2.7/250	296-12134-2-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	275.00/250		
REG710NA-3.3/250	296-12135-1-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	1.93	1.49	1.35
REG710NA-3.3/250	296-12135-2-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	275.00/250		
REG710NA-3/250	296-12136-1-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	1.93	1.49	1.35
REG710NA-3/250	296-12136-2-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	275.00/250		
REG710NA-5/250	296-12137-1-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	1.93	1.49	1.35
REG710NA-5/250	296-12137-2-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	275.00/250		
REG711EA-2.5/2K5	REG711EA2.52K5CT-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.07	1.60	1.45
REG711EA-2.5/2K5	REG711EA2.52K5TR-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	1992.50/2,500		
REG711EA-2.7/2K5	REG711EA2.72K5CT-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.07	1.60	1.45
REG711EA-2.7/2K5	REG711EA2.72K5TR-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	1992.50/2,500		
REG711EA-3/2K5	REG711EA-3/2K5CT-ND	3V, 50mA Switched-Cap DC/DC Conv.	8-MSOP	2.07	1.60	1.45
REG711EA-3/2K5	REG711EA-3/2K5TR-ND	3V, 50mA Switched-Cap DC/DC Conv.	8-MSOP	1992.50/2,500		
REG711EA-3.3/250	REG711EA3.3250CT-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.49	1.92	1.74
REG711EA-3.3/250	REG711EA3.3250TR-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	355.00/250		
REG711EA-5/2K5	REG711EA-5/2K5CT-ND	5V, 50mA Switched-Cap DC/DC Conv.	8-MSOP	2.07	1.60	1.45
REG711EA-5/2K5	REG711EA-5/2K5TR-ND	5V, 50mA Switched-Cap DC/DC Conv.	8-MSOP	1992.50/2,500		
REG711EVM-232	296-20536-ND	Evaluation Module for REG711-5	—	50.00	—	—
REG71050DDCT	296-17420-1-ND	60mA, 5V, Buck/Boost Charge Pump	TSOT-23-6	1.93	1.49	1.35
REG71050DDCT	296-17420-2-ND	60mA, 5V, Buck/Boost Charge Pump	TSOT-23-6	275.00/250		
REG71050DRVR	296-23423-1-ND	60mA, 5V, Buck/Boost Charge Pump	6-SON	1.76	1.39	1.25
REG71050DRVR	296-23423-2-ND	60mA, 5V, Buck/Boost Charge Pump	6-SON	1941.00/3,000		
REG71050DRVT	296-24144-1-ND	60mA, 5V, Buck/Boost Charge Pump*	6-SON	1.93	1.49	1.35
REG71050DRVT	296-24144-2-ND	60mA, 5V, Buck/Boost Charge Pump*	6-SON	481.50/500		
REG71055DDCT	296-15370-1-ND	60mA Switched-Cap Buck/Boost Conv.	TSOT-23-6	1.93	1.49	1.35
REG71055DDCT	296-15370-2-ND	60mA Switched-Cap Buck/Boost Conv.	TSOT-23-6	275.00/250		
REG71055IDDCRQ1	296-25155-1-ND	30mA Switched-Cap Buck/Boost Converter* **NEW!**	TSOT-23-6	1.93	1.49	1.35
REG71055IDDCRQ1	296-25155-2-ND	30mA Switched-Cap Buck/Boost Converter* **NEW!**	TSOT-23-6	2229.00/3,000		
TL7660CDGKR	296-21855-1-ND	CMOS Voltage Converter	8-MSOP	1.60	1.26	1.14
TL7660CDGKR	296-21855-2-ND	CMOS Voltage Converter	8-MSOP	1470.00/2,500		
TL7660CDR	296-21856-1-ND	CMOS Voltage Converter	8-SOIC	1.52	1.20	1.08
TL7660CDR	296-21856-2-ND	CMOS Voltage Converter	8-SOIC	1400.00/2,500		
TL7660CP	296-21857-5-ND	CMOS Voltage Converter	8-Dip	1.40	1.12	.98
TL7660IDGKR	296-21858-1-ND	CMOS Voltage Converter	8-MSOP	1.71	1.35	1.22
TL7660IDGKR	296-21858-2-ND	CMOS Voltage Converter	8-MSOP	1575.00/2,500		
TL7660IDR	296-21859-1-ND	CMOS Voltage Converter	8-SOIC	1.71	1.35	1.22
TL7660IDR	296-21859-2-ND	CMOS Voltage Converter	8-SOIC	1575.00/2,500		
TL7660IP	296-21860-5-ND	CMOS Voltage Converter	8-Dip	1.58	1.26	1.11
TPS5102IDBT	296-2260-5-ND	Dual DC/DC Controller	30-TSSOP	7.13	5.85	5.28
TPS5103EVM-136	296-10924-ND	Evaluation Module for TPS5103	—	50.00	—	—
TPS5103IDB	296-2261-5-ND	Multimode DC/DC Controller	20-SSOP	4.90	3.94	3.59
TPS5120MDBTREP	296-21272-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	12.24	10.38	9.58
TPS5120MDBTREP	296-21272-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	13566.00/2,000		
TPS5120QDBTREP	296-18639-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	11.29	9.38	8.52
TPS5120QDBTREP	296-18639-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	11076.00/2,000		
TPS5120QDBTRQ1G4	296-22052-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	8.75	7.26	6.60
TPS5120QDBTRQ1G4	296-22052-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	8580.00/2,000		
TPS5124DBT	296-15863-5-ND	Dual Channel, Sync. Step-Down PWM Controller	30-TSSOP	6.72	5.40	4.92
TPS5124EVM	296-18960-ND	Evaluation Module for TPS5124	—	50.00	—	—
TPS5140PAG	296-12364-ND	Quad-Out High Efficiency DC/DC Cont.	64-TQFP	10.88	8.92	8.05
TPS5300DAP	296-12508-5-ND	CPU Power Supply Controller	32-TSSOP	10.38	8.51	7.68
TPS5410D	296-20787-5-ND	1A Step-Down SWIFT™ Converter	8-SOIC	5.46	4.39	4.00
TPS5410EVM-203	296-22913-ND	Evaluation Module for TPS5410	—	50.00	—	—
TPS5410MDREP	296-25179-1-ND	1A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	8.48	7.04	6.40
TPS5410MDREP	296-25179-2-ND	1A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	10400.00/2,500		
TPS5410QDRQ1	296-25229-1-ND	1A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	5.70	4.66	4.18
TPS5410QDRQ1	296-25229-2-ND	1A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	6317.50/2,500		
TPS5420D	296-19671-5-ND	2A Step-Down SWIFT™ Converter	8-SOIC	5.74	4.62	4.21
TPS5420EVM-175	296-21156-ND	Evaluation Module for TPS5420	—	10.20	—	—
TPS5420MDREP	296-22447-1-ND	2A Step-Down SWIFT™ Converter	8-SOIC	7.66	6.36	5.78
TPS5420MDREP	296-22447-2-ND	2A Step-Down SWIFT™ Converter	8-SOIC	9392.50/2,500		
TPS5420QDRQ1	296-23226-1-ND	2A Step-Down SWIFT™ Converter	8-SOIC	6.00	4.90	4.40
TPS5420QDRQ1	296-23226-2-ND	2A Step-Down SWIFT™ Converter	8-SOIC	6650.00/2,500		
TPS5430DDA	296-19447-5-ND	3A Step-Down SWIFT™ Converter	8-HSOIC	6.30	5.07	4.62
TPS5430EVM-136	296-19432-ND	Evaluation Module for TPS5430-136	—	10.08	—	—
TPS5430EVM-173	296-19640-ND	Evaluation Module for TPS5430	—	10.20	—	—
TPS5430MDDAREP	296-24266-1-ND	3A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	9.81	8.14	7.40
TPS5430MDDAREP	296-24266-2-ND	3A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	12025.00/2,500		
TPS5430QDDARQ1	296-23177-1-ND	3A Step-Down SWIFT™ Converter	8-HSOIC	6.60	5.39	4.84
TPS5430QDDARQ1	296-23177-2-ND	3A Step-Down SWIFT™ Converter	8-HSOIC	7315.00/2,500		
TPS5431DDA	296-19662-5-ND	3A Step-Down SWIFT™ Converter	8-HSOIC	5.88	4.73	4.31
TPS5431EVM-173	296-19710-ND	Evaluation Module for TPS5431-173	—	10.20	—	—
TPS5450DDA	296-21715-5-ND	5A Step-Down SWIFT™ Converter	8-HSOIC	6.75	5.54	5.00
TPS5450MDDAREP	296-24950-1-ND	5A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	11.50	9.75	9.00
TPS5450MDDAREP	296-24950-2-ND	5A Step-Down SWIFT™ Converter* **NEW!**	8-SOIC	15937.50/2,500		
TPS5450QDDARQ1	296-23750-1-ND	5A Step-Down SWIFT™ Converter	8-SOIC	7.02	5.83	5.30
TPS5450QDDARQ1	296-23750-2-ND	5A Step-Down SWIFT™ Converter	8-SOIC	8612.50/2,000		
TPS5602IDBT	296-2262-5-ND	Dual DC/DC Controller	30-SSOP	10.25	8.41	7.59
TPS6734EVM	296-10980-ND	Evaluation Module for TPS6734	—	50.00	—	—
TPS6734ID	296-3225-5-ND	12V, 120mA Boost Converter	8-SOIC	3.92	3.15	2.87
TPS6734IDR	296-3225-1-ND	12V, 120mA Boost Converter	8-SOIC	3.57	2.92	2.62
TPS6734IDR	296-3225-2-ND	12V, 120mA Boost Converter	8-SOIC	3957.50/2,500		
TPS6734IP	296-3226-5-ND	12V, 120mA Boost Converter	8-Dip	4.28	3.45	3.14
TPS6735EVM	296-10981-ND	Evaluation Module for TPS6735	—	50.00	—	—
TPS6735ID	296-10982-5-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	3.92	3.15	2.87
TPS6735IDR	296-10982-1-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	3.57	2.92	2.62
TPS6735IDR	296-10982-2-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	3957.50/2,500		
TPS6735IP	296-10983-5-ND	Neg. 5V, 200mA DC/DC Converter	8-Dip	3.92	3.15	2.87
TPS6755ID	296-10984-5-ND	Adj., 200mA DC/DC Converter	8-SOIC	4.87	3.92	3.57
TPS6755IP	296-10985-5-ND	Adj., 200mA DC/DC Converter	8-Dip	5.24	4.21	3.84
TPS23754EVM-420	296-24595-ND	Eval. Module for TPS23754-420* **NEW!**	—	50.00	—	—
TPS23754EVM-383	296-24596-ND	Eval. Module for TPS23754-383* **NEW!**	—	50.00	—	—
TPS40040DRBT	296-19638-1-ND	Sync. Buck DC/DC Controller	8-SON	3.15	2.58	2.31
TPS40040DRBT	296-19638-2-ND	Sync. Buck DC/DC Controller	8-SON	485.75/250		
TPS40041DRBR	296-19639-1-ND	Sync. Buck DC/DC Controller	8-SON	3.15	2.43	2.21
TPS40041DRBR	296-19639-2-ND	Sync. Buck DC/DC Controller	8-SON	3645.00/3,000		
TPS40041EVM-001	296-21151-ND	Evaluation Module for TPS40041	—	50.00	—	—
TPS40042DRCT	296-22978-1-ND	3V-5.5V Sync. Buck DC/DC Controller	10-SON	3.15	2.58	2.31
TPS40042DRCT	296-22978-2-ND	3V-5.5V Sync. Buck DC/DC Controller	10-SON	485.75/250		
TPS40052PWP	296-15751-5-ND	Wide Input Sync. Buck Controller	16-HTSSOP	5.60	4.50	4.10
TPS40055PWPR	296-25754-1-ND	Wide Input Sync. Buck Controller* **NEW!**	16-HTSSOP	4.65	3.80	3.41
TPS40055PWPR	296-25754-2-ND	Wide Input Sync. Buck Controller* **NEW!**	16-HTSSOP	4124.00/2,000		
TPS40077PWP	296-21554-ND	Midvoltage, Wide Input, Sync. Step-Down Controller	16-HTSSOP	5.46	4.39	4.00
TPS40090EVM-001	296-20593-ND	Evaluation Module for TPS40090	—	50.00	—	—
TPS40090EVM-002	296-18957-ND	Evaluation Module for TPS40090-002	—	50.00	—	—
TPS40090PW	296-15881-5-ND	High-Freq. Multiphase Controller	24-TSSOP	6.44	5.18	4.72
TPS40090QPWRQ1	296-23570-1-ND	High-Freq. Multiphase Controller	24-TSSOP	6.60	5.39	4.84
TPS40090QPWRQ1	296-23570-2-ND	High-Freq. Multiphase Controller	24-TSSOP	5852.00/2,000		
TPS40100EVM-001	296-21152-ND	Evaluation Module for TPS40100	—	50.00	—	—
TPS40120PW	296-17389-ND	Programmable Feedback Divider	14-TSSOP	1.86	1.50	1.35
TPS40140EVM-002	296-22909-ND	Evaluation Module for TPS40140	—	50.00	—	—
TPS40140RHHR	296-20689-1-ND	Dual or 2-Phase, Stackable Controller	36-VQFN	7.02	5.83	5.30

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS40140RHHR	296-20689-2-ND	Dual or 2-Phase, Stackable Controller	36-VQFN	10335.00/3,000		
TPS40180RGER	296-21973-1-ND	Single Phase Stackable Controller	24-QFN	6.00	4.90	4.40
TPS40180RGER	296-21973-2-ND	Single Phase Stackable Controller	24-QFN	7980.00/3,000		
TPS40200D	296-21153-5-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SOIC	2.79	2.25	2.03
TPS40200DRBR	296-23923-1-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SON	2.63	2.03	1.84
TPS40200DRBR	296-23923-2-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SON	3037.50/3,000		
TPS40200EVM-001	296-19607-ND	Evaluation Module for TPS40200	—	50.00	—	—
TPS40200EVM-002	296-22911-ND	Evaluation Module for TPS40200	—	50.00	—	—
TPS40200MDREP	296-22446-1-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SOIC	4.71	3.85	3.46
TPS40200MDREP	296-22446-2-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SOIC	5220.25/2,500		
TPS40200QDRQ1	296-23024-1-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SOIC	3.15	2.43	2.21
TPS40210DGQ	296-24813-5-ND	4.5V to 52V Input Current Mode Boost Controller* ***NEW!***	10-MSOP	3.07	2.48	2.23
TPS40210DRCT	296-23413-1-ND	4.5V to 52V Input Current Mode Boost Controller	10-SON	3.45	2.82	2.53
TPS40210DRCT	296-23413-2-ND	4.5V to 52V Input Current Mode Boost Controller	10-SON	532.00/250		
TPS40210QDGQRQ1	296-23878-1-ND	4.5V to 52V Input Current Mode Boost Controller	10-MSOP	3.60	2.94	2.64
TPS40210QDGQRQ1	296-23878-2-ND	4.5V to 52V Input Current Mode Boost Controller	10-MSOP	3990.00/2,500		
TPS40211DRCT	296-23414-1-ND	4.5V to 52V Input Current Mode Boost Controller	10-SON	3.45	2.82	2.53
TPS40211DRCT	296-23414-2-ND	4.5V to 52V Input Current Mode Boost Controller	10-SON	532.00/250		
TPS40211QDGQRQ1	296-23879-1-ND	4.5V to 52V Input Current Mode Boost Controller	10-MSOP	3.60	2.94	2.64
TPS40211QDGQRQ1	296-23879-2-ND	4.5V to 52V Input Current Mode Boost Controller	10-MSOP	3990.00/2,500		
TPS51020DBT	296-15896-5-ND	Sync. Dual DC/DC Controller	30-TSSOP	6.38	5.23	4.72
TPS51020EVM-001	296-18958-ND	Evaluation Module for TPS51020-001	—	50.00	—	—
TPS51117PW	296-19425-5-ND	Singe Sync. Step-Down Converter	14-TSSOP	4.06	3.27	2.98
TPS51120EVM-001	296-19608-ND	Evaluation Module for TPS51120	—	101.00	—	—
TPS51120RHBT	296-18341-1-ND	Dual Current Mode, Sync. Step-Down Controller	32-VQFN	6.76	5.61	5.10
TPS51120RHBT	296-18341-2-ND	Dual Current Mode, Sync. Step-Down Controller	32-VQFN	1083.75/250		
TPS51123RGET	296-24069-1-ND	Dual Sync. Step-Down Controller	24-VQFN	6.75	5.52	4.95
TPS51123RGET	296-24069-2-ND	Dual Sync. Step-Down Controller	24-VQFN	1040.75/250		
TPS51124RGET	296-19295-1-ND	Dual Sync. Step-Down Controller	24-QFN	6.45	5.27	4.73
TPS51124RGET	296-19295-2-ND	Dual Sync. Step-Down Controller	24-QFN	994.50/250		
TPS51163DRCT	296-24537-1-ND	Single Sync. Step-Down Ctrlr.* ***NEW!***	10-SON	3.45	2.82	2.53
TPS51163DRCT	296-24537-2-ND	Single Sync. Step-Down Ctrlr.* ***NEW!***	10-SON	532.00/250		
TPS51217DSCT	296-24597-1-ND	Single Sync. Step-Down Ctrlr.* ***NEW!***	10-SON	4.65	3.80	3.41
TPS51217DSCT	296-24597-2-ND	Single Sync. Step-Down Ctrlr.* ***NEW!***	10-SON	717.00/250		
TPS51427ARHBT	296-23590-1-ND	Dual D-Cap Sync. Step-Down Ctrlr.	32-QFN	7.69	6.38	5.80
TPS51427ARHBT	296-23590-2-ND	Dual D-Cap Sync. Step-Down Ctrlr.	32-QFN	1232.50/250		
TPS51427RHBT	296-23406-1-ND	Dual D-Cap Sync. Step-Down Ctrlr.	32-QFN	7.69	6.38	5.80
TPS51427RHBT	296-23406-2-ND	Dual D-Cap Sync. Step-Down Ctrlr.	32-QFN	1232.50/250		
TPS51511RHLT	296-21643-1-ND	Sync. Switcher Controller with 2A LDO for GPU Power	20-VQFN	6.15	5.03	4.51
TPS51511RHLT	296-21643-2-ND	Sync. Switcher Controller with 2A LDO for GPU Power	20-VQFN	948.25/250		
TPS51727RHAR	296-23397-1-ND	Dual Phase, Eco-Mode Step-Down Power Management IC	40-QFN	3.90	3.19	2.86
TPS51727RHAR	296-23397-2-ND	Dual Phase, Eco-Mode Step-Down Power Management IC	40-QFN	4322.50/2,500		
TPS53114PW	296-25106-5-ND	Single Sync. Step-Down Ctrlr* ***NEW!***	16-HTSSOP	4.06	3.27	2.98
TPS53114PWPR	296-24335-1-ND	Single Sync. Step-Down Ctrlr* ***NEW!***	16-HTSSOP	3.60	2.94	2.64
TPS53114PWPR	296-24335-2-ND	Single Sync. Step-Down Ctrlr* ***NEW!***	16-HTSSOP	3192.00/2,000		
TPS53126RGET	296-24598-1-ND	Dual Sync. Step-Down Ctrlr.* ***NEW!***	24-VQFN	7.16	5.94	5.40
TPS53126RGET	296-24598-2-ND	Dual Sync. Step-Down Ctrlr.* ***NEW!***	24-VQFN	1147.50/250		
TPS54010EVM-067	296-17269-ND	Evaluation Module for TPS54010	—	50.00	—	—
TPS54040DGQ	296-24228-5-ND	0.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	4.62	3.72	3.39
TPS54060DGQ	296-24212-5-ND	0.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	5.88	4.73	4.31
TPS54110EVM-044	296-18961-ND	Evaluation Module for TPS54110-044	—	10.20	—	—
TPS54140DGQ	296-23970-5-ND	1.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter	10-MSOP	5.46	4.39	4.00
TPS54140QDGQRQ1	296-25230-1-ND	1.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	5.70	4.66	4.18
TPS54140QDGQRQ1	296-25230-2-ND	1.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	6317.50/2,500		
TPS54140QDRCRQ1	296-25231-1-ND	1.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-SON	5.70	4.66	4.18
TPS54140QDRCRQ1	296-25231-2-ND	1.5A, 3.5V~42V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-SON	7581.00/3,000		
TPS54160DGQ	296-23864-5-ND	1.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter	10-MSOP	6.44	5.18	4.72
TPS54160QDGQRQ1	296-25232-1-ND	1.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	6.75	5.52	4.95
TPS54160QDGQRQ1	296-25232-2-ND	1.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-MSOP	7482.50/2,500		
TPS54160QDRCRQ1	296-25233-1-ND	1.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-SON	6.75	5.52	4.95
TPS54160QDRCRQ1	296-25233-2-ND	1.5A, 3.5V~60V Step-Down SWIFT™ DC/DC Converter* ***NEW!***	10-SON	8979.00/3,000		
TPS54162QPWPRQ1	296-25322-1-ND	1A, 60V Step Down DC/DC Converter* ***NEW!***	20-HTSSOP	6.76	5.61	5.10
TPS54162QPWPRQ1	296-25322-2-ND	1A, 60V Step Down DC/DC Converter* ***NEW!***	20-HTSSOP	6630.00/2,000		
TPS54218RTER	296-25169-1-ND	2A, 2.95V~6V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	16-QFN	4.50	3.68	3.30
TPS54218RTER	296-25169-2-ND	2A, 2.95V~6V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	16-QFN	5985.00/3,000		
TPS54225PWPR	296-25318-1-ND	2A, 4.5V~18V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	4.35	3.56	3.19
TPS54225PWPR	296-25318-2-ND	2A, 4.5V~18V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	3857.00/2,000		
TPS54226PWPR	296-25332-1-ND	2A, 4.5V~18V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	4.80	3.92	3.52
TPS54226PWPR	296-25332-2-ND	2A, 4.5V~18V Input Sync. Step-Down SWIFT™ Converter* ***NEW!***	14-HTSSOP	4256.00/2,000		
TPS54231D	296-24140-5-ND	2A, 28V Input Step-Down SWIFT™ DC/DC Converter	8-SOIC	4.20	3.38	3.08
TPS54231DR	296-23844-1-ND	2A, 28V Input Step-Down SWIFT™ DC/DC Converter	8-SOIC	3.75	3.07	2.75
TPS54231DR	296-23844-2-ND	2A, 28V Input Step-Down SWIFT™ DC/DC Converter	8-SOIC	4157.50/2,500		
TPS54232D	296-24037-5-ND	2A, 28V Step Down SWIFT™ DC/DC Converter	8-SOIC	4.48	3.60	3.28
TPS54233DR	296-23902-1-ND	2A, 28V Step Down SWIFT™ DC/DC Converter	8-SOIC	3.75	3.07	2.75
TPS54233DR	296-23902-2-ND	2A, 28V Step Down SWIFT™ DC/DC Converter	8-SOIC	4156.25/2,500		
TPS54262QPWPRQ1	296-25234-1-ND	2A, 60V Step Down DC/DC Converter* ***NEW!***	20-HTSSOP	7.16	5.94	5.40
TPS54262QPWPRQ1	296-25234-2-ND	2A, 60V Step Down DC/DC Converter* ***NEW!***	20-HTSSOP	7020.00/2,000		
TPS54283PWPR	296-22873-1-ND	2A Dual Non-Sync. Converter	14-HTSSOP	7.20	5.88	5.28
TPS54283PWPR	296-22873-2-ND	2A Dual Non-Sync. Converter	14-HTSSOP	6384.00/2,000		
TPS54292PWP	296-25478-5-ND	2.5A Dual Sync. Step Down SWIFT™ Converter* ***NEW!***	16-HTSSOP	8.88	7.28	6.57
TPS54331D	296-23626-5-ND	3A, 28V Input, Step-Down SWIFT™ DC/DC Converter	8-SOIC	4.62	3.72	3.39
TPS54332EVM-416	296-24330-ND	Eval. Module for TPS54332 ***NEW!***	—	25.50	—	—
TPS54332DDA	296-24141-5-ND	3.5A, 28V Input Step-Down SWIFT™ DC/DC Converter	8-SOIC	4.76	3.83	3.49
TPS54377RHFT	296-22632-1-ND	1.6MHz, 3V~6V Input, 3A Sync. Step-Down SWIFT™ Converter	24-QFN	7.69	6.38	5.80
TPS54362QPWPRQ1	296-24267-1-ND	3A, Sync. Step-Down Converter* ***NEW!***	20-HTSSOP	7.42	6.16	5.60
TPS54362QPWPRQ1	296-24267-2-ND	3A, Sync. Step-Down Converter* ***NEW!***	20-HTSSOP	7280.00/2,000		
TPS54377RHFT	296-22632-2-ND	1.6MHz, 3V~6V Input, 3A Sync. Step-Down SWIFT™ Converter	24-QFN	1232.50/250		
TPS54386PWPR	296-23109-1-ND	3A Dual Non-Sync. Converter	14-HTSSOP	7.02	5.83	5.30
TPS54386PWPR	296-23109-2-ND	3A Dual Non-Sync. Converter	14-HTSSOP	6890.00/2,000		
TPS54550EVM-158	296-19743-ND	Evaluation Module for TPS54550	—	10.20	—	—
TPS54550PWP	296-19672-5-ND	4.5V~20V Input, 6A Output Sync. PWM Switcher	16-HTSSOP	8.00	6.56	5.92
TPS54611PWP	296-12124-5-ND	Low Input Voltage 6A Continuous Buck Converter 0.9V Out	28-HTSSOP	12.00	9.84	8.88
TPS54613PWP	296-12126-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.5V Out	28-HTSSOP	9.63	7.90	7.13
TPS54615PWP	296-12128-5-ND	Low Input Voltage 6A Continuous Buck Converter 2.5V Out	28-HTSSOP	9.63	7.90	7.13
TPS54617RUVR	296-23929-1-ND	6A Sync. Buck PWM Converter	34-VQFN	8.75	7.26	6.60
TPS54617RUVR	296-23929-2-ND	6A Sync. Buck PWM Converter	34-VQFN	12870.00/3,000		
TPS54672EVM-222	296-20597-ND	Evaluation Module for TPS54672	—	10.20	—	—
TPS54672PWP	296-12130-5-ND	Track-Termination Sync. PWM Switcher with Integrated FETs	28-HTSSOP	9.63	7.90	7.13
TPS54900PW	296-13408-5-ND	Programmable 4-Channel Step-Down DC/DC Converter	16-TSSOP	18.92	15.91	14.62
TPS55332QPWPRQ1	296-24622-1-ND	60V, 0.5A Step-Up DC/DC Converter* ***NEW!***	20-HTSSOP	7.69	6.38	5.80
TPS55332QPWPRQ1	296-24622-2-ND	60V, 0.5A Step-Up DC/DC Converter* ***NEW!***	20-HTSSOP	7540.00/2,000		
TPS55383PWPR	296-23821-1-ND	3A Dual Non-Sync. Converter	16-HTSSOP	7.02	5.83	5.30
TPS55383PWPR	296-23821-2-ND	3A Dual Non-Sync. Converter	16-HTSSOP	6890.00/2,000		
TPS55386PWPR	296-23850-1-ND	3A Dual Non-Sync. Converter	16-HTSSOP	7.02	5.83	5.30
TPS55386PWPR	296-23850-2-ND	3A Dual Non-Sync. Converter	16-HTSSOP	6890.00/2,000		
TPS54917RUVR	296-23930-1-ND	9A Sync. Buck PWM Converter	34-VQFN	9.81	8.14	7.40
TPS54917RUVR	296-23930-2-ND	9A Sync. Buck PWM Converter	34-VQFN	14430.00/3,000		
TPS60100EVM-131	296-10945-ND	Evaluation Module for TPS60100	—	50.00	—	—
TPS60100PWP	296-2263-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	5.18	4.17	3.80
TPS60101PWP	296-2264-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.94	2.37	2.16
TPS60110EVM-132	296-10946-ND	Evaluation Module for TPS60110	—	50.00	—	—
TPS60110PWP	296-2265-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	3.22	2.59	2.36
TPS60111PWP	296-2266-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.94	2.37	2.16
TPS60120EVM-142	296-10947-ND	Evaluation Module for TPS60120	—	50.00	—	—
TPS60120EVM-174	296-13577-ND	Evaluation Module for TPS60120	—	50.00	—	—
TPS60120PWP	296-2267-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	3.36	2.70	2.46
TPS60121PWP	296-2268-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	3.36	2.70	2.46
TPS60122PWP	296-2269-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.80	2.25	2.05
TPS60123PWP	296-2270-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.94	2.37	2.16
TPS60124PWP	296-10948-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	3.36	2.70	2.46
TPS60125PWP	296-10949-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	3.36	2.70	2.46
TPS60130EVM-143	296-10950-ND	Evaluation Module for TPS60130	—	50.00	—	—
TPS60130PWP	296-2271-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	3.22	2.59	2.36
TPS60131PWP	296-2272-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	3.22	2.59	2.36
TPS60132PWP	296-2273-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	3.22	2.59	2.36
TPS60133PWP	296-2274-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	3.22	2.59	2.36
TPS60140EVM-144	296-10951-ND	Evaluation Module for TPS60140	—	50.00	—	—
TPS60140PWP	296-2275-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.80	2.25	2.05
TPS60140PWPR	296-2275-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	3.15	2.58	2.31
TPS60140PWPR	296-2275-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2793.00/2,000		
TPS60141PWP	296-2276-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	3.78	3.04	2.77
TPS60141PWPR	296-2276-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	4.05	3.31	2.97
TPS60141PWPR	296-2276-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	3591.00/2,000		
TPS60150DRVR	296-24054-1-ND	5V, 140mA Charge Pump	6-SON	1.93	1.49	1.35
TPS60150DRVR	296-24054-2-ND	5V, 140mA Charge Pump	6-SON	2229.00/3,000		
TPS60151DRVR	296-25279-1-ND	5V, 140mA Charge Pump* ***NEW!***	6-SON	1.93	1.49	1.35
TPS60151DRVR	296-25279-2-ND	5V, 140mA Charge Pump* ***NEW!***	6-SON	2229.00/3,000		
TPS60200DGS	296-10954-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.94	2.37	2.16
TPS60200EVM-145	296-10955-ND	Evaluation Module for TPS60200	—	50.00	—	—
TPS60201DGS	296-10956-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.94	2.37	2.16
TPS60202DGS	296-10957-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.64	2.13	1.92
TPS60203DGS	296-10958-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.95	2.38	2.14
TPS60204DGSR	296-12365-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.80	2.16	1.96
TPS60204DGSR	296-12365-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2700.00/2,500		
TPS60205DGSR	296-12366-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.80	2.16	1.96

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS60205DGSR	296-12366-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2700.00/2,500		
TPS60210DGS	296-10959-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.80	2.25	2.05
TPS60210EVM-167	296-10960-ND	Evaluation Module for TPS60210	—	50.00	—	—
TPS60211DGS	296-10961-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.94	2.37	2.16
TPS60212DGS	296-10962-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.64	2.13	1.92
TPS60213DGS	296-10963-5-ND	3.3V, 50mA Low Ripple Charge Pump	10-TSSOP	2.95	2.38	2.14
TPS60300DGSR	296-13410-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Eff. Charge Pump	10-MSOP	2.63	2.03	1.84
TPS60300DGSR	296-13410-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Eff. Charge Pump	10-MSOP	2532.50/2,500		
TPS60301DGSR	296-13411-1-ND	Single Cell to 3V, 20mA Dual Output, High Efficiency Charge Pump	10-MSOP	3.00	2.45	2.20
TPS60301DGSR	296-13411-2-ND	Single Cell to 3V, 20mA Dual Output, High Efficiency Charge Pump	10-MSOP	3325.00/2,500		
TPS60302DGSR	296-13412-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Eff. Charge Pump	10-MSOP	3.00	2.45	2.20
TPS60302DGSR	296-13412-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Eff. Charge Pump	10-MSOP	3325.00/2,500		
TPS60302EVM-170	296-10964-ND	Evaluation Module for TPS60302	—	50.00	—	—
TPS60303DGSR	296-13413-1-ND	Single Cell to 3V, 20mA Dual Output, High Efficiency Charge Pump	10-MSOP	2.63	2.03	1.84
TPS60303DGSR	296-13413-2-ND	Single Cell to 3V, 20mA Dual Output, High Efficiency Charge Pump	10-MSOP	2532.50/2,500		
TPS60310DGSR	296-13414-1-ND	Single Cell to 3.3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3.33	2.57	2.33
TPS60310DGSR	296-13414-2-ND	Single Cell to 3.3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3207.50/2,500		
TPS60311DGSR	296-13415-1-ND	Single Cell to 3V, 20mA Dual Output High Eff. Charge Pump w/Snooze	10-MSOP	2.45	1.89	1.72
TPS60311DGSR	296-13415-2-ND	Single Cell to 3V, 20mA Dual Output High Eff. Charge Pump w/Snooze	10-MSOP	2362.50/2,500		
TPS60312DGSR	296-13416-1-ND	Single Cell to 3.3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3.33	2.57	2.33
TPS60312DGSR	296-13416-2-ND	Single Cell to 3.3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3207.50/2,500		
TPS60313DGSR	296-13417-1-ND	Single Cell to 3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3.33	2.57	2.33
TPS60313DGSR	296-13417-2-ND	Single Cell to 3V, 20mA Dual Out, High Eff. Charge Pump w/Snooze	10-MSOP	3207.50/2,500		
TPS60400DBVT	296-12013-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.37	1.09	.98
TPS60400DBVT	296-12013-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	194.00/250		
TPS60400EVM-178	296-13580-ND	Evaluation Module for TPS60400	—	5.10	—	—
TPS60400QDBVRQ1	296-24777-1-ND	60mA Charge Pump Voltage Inverter* ***NEW!***	SOT-23-5	1.39	1.11	1.00
TPS60400QDBVRQ1	296-24777-2-ND	60mA Charge Pump Voltage Inverter* ***NEW!***	SOT-23-5	1541.40/3,000		
TPS60401DBVT	296-12014-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.37	1.09	.98
TPS60401DBVT	296-12014-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	194.00/250		
TPS60402DBVT	296-12015-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.37	1.09	.98
TPS60402DBVT	296-12015-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	194.00/250		
TPS60403DBVT	296-13418-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.37	1.09	.98
TPS60403DBVT	296-13418-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	194.00/250		
TPS60403QDBVRQ1	296-18036-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.39	1.11	1.00
TPS60403QDBVRQ1	296-18036-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1542.00/3,000		
TPS60500DGSR	296-17015-1-ND	250mA Step-Down Charge Pump	10-MSOP	2.80	2.16	1.96
TPS60500DGSR	296-17015-2-ND	250mA Step-Down Charge Pump	10-MSOP	2700.00/2,500		
TPS60500EVM-193	296-13581-ND	Evaluation Module for TPS60500	—	50.00	—	—
TPS60501DGS	296-12514-5-ND	3.3V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.80	2.25	2.05
TPS60502DGS	296-12515-5-ND	1.8V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.80	2.25	2.05
TPS60503DGS	296-12516-5-ND	1.5V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.94	2.37	2.16
TPS61000DGS	296-3217-5-ND	Adj., 100mA Boost Converter	10-MSOP	3.33	2.68	2.44
TPS61000EVM-156	296-10965-ND	Evaluation Module for TPS61000	—	50.00	—	—
TPS61001DGS	296-3218-5-ND	1.5V, 100mA Boost Converter	10-MSOP	3.50	2.82	2.57
TPS61002DGS	296-3219-5-ND	1.8V, 100mA Boost Converter	10-MSOP	3.50	2.82	2.57
TPS61002EVM-156	296-10966-ND	Evaluation Module for TPS61002	—	50.00	—	—
TPS61003DGS	296-3220-5-ND	2.5V, 100mA Boost Converter	10-MSOP	3.50	2.82	2.57
TPS61003EVM-156	296-10967-ND	Evaluation Module for TPS61003	—	50.00	—	—
TPS61004DGS	296-3221-5-ND	2.8V, 100mA Boost Converter	10-MSOP	3.50	2.82	2.57
TPS61005DGS	296-3222-5-ND	3.0V, 100mA Boost Converter	10-MSOP	3.92	3.15	2.87
TPS61006DGS	296-3223-5-ND	3.3V, 100mA Boost Converter	10-MSOP	3.05	2.46	2.24
TPS61006EVM-156	296-10968-ND	Evaluation Module for TPS61006	—	50.00	—	—
TPS61007DGS	296-3224-5-ND	Adj., 100mA Boost Converter	10-MSOP	3.50	2.82	2.57
TPS61010DGS	296-10969-5-ND	Adj., Synchronous Boost Converter	10-MSOP	3.78	3.04	2.77
TPS61010DGSR	296-25778-1-ND	Adj., 200mA Sync. Boost Converter* ***NEW!***	10-MSOP	3.30	2.70	2.42
TPS61010DGSR	296-25778-2-ND	Adj., 200mA Sync. Boost Converter* ***NEW!***	10-MSOP	3657.50/2,500		
TPS61010DRCR	296-21158-1-ND	High Efficiency, 1-Cell and 2-Cell Boost Converter	10-SON	3.30	2.70	2.42
TPS61010DRCR	296-21158-2-ND	High Efficiency, 1-Cell and 2-Cell Boost Converter	10-SON	4389.00/3,000		
TPS61010EVM-157	296-13582-ND	Evaluation Module for TPS61010	—	50.00	—	—
TPS61012DGS	296-10971-5-ND	1.8V Synchronous Boost Converter	10-MSOP	4.06	3.27	2.98
TPS61013DGS	296-10972-5-ND	2.5V Synchronous Boost Converter	10-MSOP	4.06	3.27	2.98
TPS61013EVM-157	296-13583-ND	Evaluation Module for TPS61013	—	50.00	—	—
TPS61014DGS	296-10973-5-ND	2.8V Synchronous Boost Converter	10-MSOP	4.06	3.27	2.98
TPS61015EVM-157	296-13584-ND	Evaluation Module for TPS61015	—	50.00	—	—
TPS61015DGS	296-10974-5-ND	3.0V Synchronous Boost Converter	10-MSOP	4.62	3.72	3.39
TPS61016DGS	296-10975-5-ND	3.3V Synchronous Boost Converter	10-MSOP	4.62	3.72	3.39
TPS61016EVM-157	296-12001-ND	Evaluation Module for TPS61016	—	50.00	—	—
TPS61020DRCR	296-15752-1-ND	Synchronous Boost Converter	10-SON	3.33	2.57	2.33
TPS61020DRCR	296-15752-2-ND	Synchronous Boost Converter	10-SON	3849.00/3,000		
TPS61020EVM-025	296-18969-ND	Evaluation Module for TPS61020-025	—	50.00	—	—
TPS61024DRCR	296-15753-1-ND	Synchronous Boost Converter	10-SON	3.33	2.57	2.33
TPS61024DRCR	296-15753-2-ND	Synchronous Boost Converter	10-SON	3847.50/3,000		
TPS61025DRCR	296-15844-1-ND	Synchronous Boost Converter	10-SON	3.33	2.57	2.33
TPS61025DRCR	296-15844-2-ND	Synchronous Boost Converter	10-SON	3849.00/3,000		
TPS61026DRCT	296-19558-1-ND	Synchronous Boost Converter	10-QFN	3.90	3.19	2.86
TPS61026DRCT	296-19558-2-ND	Synchronous Boost Converter	10-QFN	601.25/250		
TPS61027DRCR	296-15754-1-ND	Synchronous Boost Converter	10-SON	3.33	2.57	2.33
TPS61027DRCR	296-15754-2-ND	Synchronous Boost Converter	10-SON	3849.00/3,000		
TPS61028DRCR	296-18078-1-ND	Sync. Boost Conv. with 1.5A Switch	10-SON	2.98	2.30	2.09
TPS61028DRCR	296-18078-2-ND	Sync. Boost Conv. with 1.5A Switch	10-SON	3442.50/3,000		
TPS61029DRCR	296-25760-1-ND	Sync. Boost Converter* ***NEW!***	10-SON	3.30	2.70	2.42
TPS61029DRCR	296-25760-2-ND	Sync. Boost Converter* ***NEW!***	10-SON	4389.00/3,000		
TPS61029DRCT	296-19559-1-ND	Synchronous Boost Converter	10-SON	3.90	3.19	2.86
TPS61029DRCT	296-19559-2-ND	Synchronous Boost Converter	10-SON	601.25/250		
TPS61030EVM-208	296-20606-ND	Evaluation Module for TPS61030	—	50.00	—	—
TPS61030PWPR	296-14416-1-ND	Single/Dual Cell Boost Converter	16-HTSSOP	6.30	5.15	4.62
TPS61030PWPR	296-14416-2-ND	Single/Dual Cell Boost Converter	16-HTSSOP	5586.00/2,000		
TPS61030RSAR	296-16660-1-ND	Adj., Synchronous Boost Converter	16-VQFN	6.30	5.15	4.62
TPS61030RSAR	296-16660-2-ND	Adj., Synchronous Boost Converter	16-VQFN	8379.00/3,000		
TPS61031EVM-208	296-20607-ND	Evaluation Module for TPS61031	—	50.00	—	—
TPS61031RSAR	296-16661-1-ND	3.3V, Synchronous Boost Converter	16-VQFN	7.29	6.05	5.50
TPS61031RSAR	296-16661-2-ND	3.3V, Synchronous Boost Converter	16-VQFN	10725.00/3,000		
TPS61032EVM-208	296-20608-ND	Evaluation Module for TPS61032	—	50.00	—	—
TPS61032PWPR	296-14418-1-ND	Single or Dual Cell Boost Converter	16-HTSSOP	6.30	5.15	4.62
TPS61032PWPR	296-14418-2-ND	Single or Dual Cell Boost Converter	16-HTSSOP	5586.00/2,000		
TPS61032RSAR	296-16662-1-ND	5V, Synchronous Boost Converter	16-VQFN	6.30	5.15	4.62
TPS61032RSAR	296-16662-2-ND	5V, Synchronous Boost Converter	16-VQFN	8379.00/3,000		
TPS61045DRBR	296-14419-1-ND	Adjustable LCD Boost Converter	8-SON	2.94	2.27	2.06
TPS61045DRBR	296-14419-2-ND	Adjustable LCD Boost Converter	8-SON	3402.00/3,000		
TPS61045EVM-231	296-20611-ND	Evaluation Module for TPS61045	—	50.00	—	—
TPS61070DDCR	296-17151-1-ND	Sync. Boost Conv. with 600mA Switch	TSOT-23-6	2.80	2.16	1.96
TPS61070DDCR	296-17151-2-ND	Sync. Boost Conv. with 600mA Switch	TSOT-23-6	3240.00/3,000		
TPS61070EVM-062	296-18971-ND	Evaluation Module for TPS61070-062	—	50.00	—	—
TPS61071DDCR	296-17227-1-ND	Sync. Boost Conv. with 600mA Switch	TSOT-23-6	2.80	2.16	1.96
TPS61071DDCR	296-17227-2-ND	Sync. Boost Conv. with 600mA Switch	TSOT-23-6	3240.00/3,000		
TPS61072DDCR	296-21523-1-ND	Synchronous Boost Converter	TSOT-23-6	2.80	2.16	1.96
TPS61072DDCR	296-21523-2-ND	Synchronous Boost Converter	TSOT-23-6	3240.00/3,000		
TPS61073DDCR	296-21898-1-ND	Synchronous Boost Converter	TSOT-23-6	2.80	2.16	1.96
TPS61073DDCR	296-21898-2-ND	Synchronous Boost Converter	TSOT-23-6	3240.00/3,000		
TPS61085DGKT	296-23550-1-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	8-MSOP	3.30	2.70	2.42
TPS61085DGKT	296-23550-2-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	8-MSOP	508.75/250		
TPS61085PW	296-27011-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	8-TSSOP	3.22	2.59	2.36
TPS61085PWR	296-23551-1-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	8-TSSOP	3.33	2.57	2.33
TPS61085PWR	296-23551-2-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	8-TSSOP	2566.00/2,000		
TPS61085TPWR	296-25728-1-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	8-TSSOP	3.30	2.70	2.42
TPS61085TPWR	296-25728-2-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	8-TSSOP	2310.00/1,500		
TPS61086DRCT	296-25123-1-ND	1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	10-SON	4.50	3.68	3.30
TPS61086DRCT	296-25123-2-ND	1.2MHz, 18.5V Step-Up DC/DC Converter* ***NEW!***	10-SON	693.75/250		
TPS61086EVM-526	296-25234-ND	Evaluation Module for TPS61086-526 ***NEW!***	—	50.00	—	—
TPS61087DRCT	296-23426-1-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	10-SON	5.55	4.54	4.07
TPS61087DRCT	296-23426-2-ND	650kHz/1.2MHz, 18.5V Step-Up DC/DC Converter	10-SON	855.75/250		
TPS61090EVM-029	296-18972-ND	Evaluation Module for TPS61090-029	—	50.00	—	—
TPS61090RSAR	296-15259-1-ND	Sync. Boost Converter with 2A Switch	16-VQFN	5.10	4.17	3.74
TPS61090RSAR	296-15259-2-ND	Sync. Boost Converter with 2A Switch	16-VQFN	6783.00/3,000		
TPS61092RSAR	296-15240-1-ND	Sync. Boost Converter with 2A Switch	16-VQFN	5.10	4.17	3.74
TPS61092RSAR	296-15240-2-ND	Sync. Boost Converter with 2A Switch	16-VQFN	6783.00/3,000		
TPS61093DSKT	296-25245-1-ND	1.6V ~ 6V Input Boost Converter* ***NEW!***	10-SON	5.10	4.17	3.74
TPS61093DSKT	296-25245-2-ND	1.6V ~ 6V Input Boost Converter* ***NEW!***	10-SON	786.25/250		
TPS61097-33DBVR	296-24662-1-ND	3.3V Sync. Boost Converter* ***NEW!***	SOT23-5	2.80	2.16	1.96
TPS61097-33DBVR	296-24662-2-ND	3.3V Sync. Boost Converter* ***NEW!***	SOT23-5	3240.00/3,000		
TPS61097-33DBVT	296-24656-1-ND	3.3V Sync. Boost Converter* ***NEW!***	SOT23-5	3.33	2.57	2.33
TPS61097-33DBVT	296-24656-2-ND	3.3V Sync. Boost Converter* ***NEW!***	SOT23-5	475.00/250		
TPS61100EVM-216	296-20612-ND	Evaluation Module for TPS61100	—	50.00	—	—
TPS61100PW	296-13515-5-ND	Adj., Dual Output, Single Cell Boost Converter	20-TSSOP	5.46	4.39	4.00
TPS61103EVM-216	296-20613-ND	Evaluation Module for TPS61103	—	50.00	—	—
TPS61103PW	296-13516-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	5.46	4.39	4.00
TPS61106EVM-216	296-20614-ND	Evaluation Module for TPS61106	—	50.00	—	—
TPS61106PW	296-13517-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	5.46	4.39	4.00
TPS61107EVM-216	296-20615-ND	Evaluation Module for TPS61107	—	50.00	—	—
TPS61120EVM-205	296-20616-ND	Evaluation Module for TPS61120	—	50.00	—	—
TPS61120PW	296-13518-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	6.44	5.18	4.72
TPS61121EVM-205	296-20617-ND	Evaluation Module for TPS61121	—	50.00	—	—
TPS61121PW	296-13519-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	5.46	4.39	4.00
TPS61121RSAR	296-18973-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	5.85	4.78	4.29
TPS61121RSAR	296-18973-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	7780.50/3,000		
TPS61122EVM-205	296-20618-ND	Evaluation Module for TPS61122	—	50.00	—	—
TPS61122PW	296-13520-5-ND	3.6V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	5.46	4.39	4.00
TPS61170DRVR	296-22945-1-ND	1.2A High Voltage Boost Converter	6-SON	4.20	3.43	3.08
TPS61170DRVR	296-22945-2-ND	1.2A High Voltage Boost Converter	6-SON	5586.00/3,000		
TPS61175PWPR	296-24013-5-ND	3A High Voltage Boost Converter	14-HTSSOP	5.04	4.05	3.69
TPS61200DRCT	296-21663-1-ND	Low Input Voltage Sync. Boost Conv.	10-SON	3.90	3.19	2.86
TPS61200DRCT	296-21663-2-ND	Low Input Voltage Sync. Boost Conv.	10-SON	601.25/250		
TPS61200EVM-179	296-23113-ND	Evaluation Module for TPS61200	—	50.00	—	—
TPS61201DRCT	296-21684-1-ND	Low Input Voltage Sync. Boost Conv.	10-SON	3.90	3.19	2.86
TPS61201DRCT	296-21684-2-ND	Low Input Voltage Sync. Boost Conv.	10-SON	601.25/250		
TPS61202DRCT	296-21685-1-ND	Low Input Voltage Sync. Boost Conv.	10-SON	3.90	3.19	2.86
TPS61202DRCT	296-21685-2-ND	Low Input Voltage Sync. Boost Conv.	10-SON	601.25/250		
TPS61202DSCR	296-24865-1-ND	Low Input Voltage Sync. Boost Conv.* ***NEW!***	10-SON	3.60	2.94	2.64

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(Continued)

TEXAS INSTRUMENTS DigiReel® *(Cont.)* POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS61202DSCR	296-24865-2-ND	Low Input Voltage Sync. Boost Conv.* ***NEW!***	10-SON	4788.00/3,000		
TPS61202DSCT	296-23120-1-ND	Low Input Voltage Sync. Boost Conv.	10-QFN	4.20	3.43	3.08
TPS61202DSCT	296-23120-2-ND	Low Input Voltage Sync. Boost Conv.	10-QFN	647.50/250		
TPS61220DCKT	296-24170-1-ND	Low Input Voltage Boost Converter	SC70-6	2.63	2.03	1.84
TPS61220DCKT	296-24170-2-ND	Low Input Voltage Boost Converter	SC70-6	375.00/250		
TPS61221DCKT	296-24171-1-ND	Low Input Voltage Boost Converter	SC70-6	2.63	2.03	1.84
TPS61221DCKT	296-24171-2-ND	Low Input Voltage Boost Converter	SC70-6	375.00/250		
TPS61222DCKT	296-24172-1-ND	Low Input Voltage Boost Converter	SC70-6	2.63	2.03	1.84
TPS61222DCKT	296-24172-2-ND	Low Input Voltage Boost Converter	SC70-6	375.00/250		
TPS61240DRVT	296-24519-1-ND	450mA, 3.5MHz High Efficiency Step-Up DC/DC Converter* ***NEW!***	6-SON	3.15	2.43	2.21
TPS61240DRVT	296-24519-2-ND	450mA, 3.5MHz High Efficiency Step-Up, DC/DC Converter* ***NEW!***	6-SON	450.00/250		
TPS61240YFFT	296-24487-1-ND	400mA, Step-Up DC/DC Converter* ***NEW!***	6-DSBGA	3.15	2.43	2.21
TPS61240YFFT	296-24487-2-ND	400mA, Step-Up DC/DC Converter* ***NEW!***	6-DSBGA	450.00/250		
TPS61241YFFR	296-24520-1-ND	450mA, 3.5MHz High Efficiency Step-Up, DC/DC Converter* ***NEW!***	6-DSBGA	2.80	2.16	1.96
TPS61241YFFR	296-24520-2-ND	450mA, 3.5MHz High Efficiency Step-Up, DC/DC Converter* ***NEW!***	6-DSBGA	3240.00/3,000		
TPS61500PWPR	296-24014-1-ND	LED Driver High Brightness	14-TSSOP	4.80	3.92	3.52
TPS61500PWPR	296-24014-2-ND	LED Driver High Brightness	14-TSSOP	4256.00/2,000		
TPS62000EVM-168	296-13586-ND	Evaluation Module for TPS62000	—	50.00	—	—
TPS62000QDGSRQ1	296-23767-1-ND	Adj., High Efficiency Step-Down Low Power DC/DC Converter	10-MSOP	4.65	3.80	3.41
TPS62000QDGSRQ1	296-23767-2-ND	Adj., High Efficiency Step-Down Low Power DC/DC Converter	10-MSOP	5153.75/2,500		
TPS62005QDGSRQ1	296-19427-1-ND	1.8V High Efficiency Step Down, Low Power, DC/DC Converter	10-MSOP	4.65	3.80	3.41
TPS62005QDGSRQ1	296-19427-2-ND	1.8V High Efficiency Step Down, Low Power, DC/DC Converter	10-MSOP	5153.75/2,500		
TPS62006DGSR	296-11617-1-ND	High Eff. Step-Down, DC/DC Converter	10-MSOP	3.90	3.19	2.86
TPS62006DGSR	296-11617-2-ND	High Eff. Step-Down, DC/DC Converter	10-MSOP	4322.50/2,500		
TPS62007DGS	296-12517-5-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	4.48	3.60	3.28
TPS62007DGSR	296-11618-1-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	3.90	3.19	2.86
TPS62007DGSR	296-11618-2-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	4322.50/2,500		
TPS62007EVM-168	296-20619-ND	Evaluation Module for TPS62007	—	50.00	—	—
TPS62008DGS	296-15676-5-ND	600mA High Efficiency, Step-Down, DC/DC Converter	10-MSOP	4.48	3.60	3.28
TPS62020DGQR	296-15250-1-ND	600mA High Eff. Step-Down Converter	10-MSOP	3.90	3.19	2.86
TPS62020DGQR	296-15250-2-ND	600mA High Eff. Step-Down Converter	10-MSOP	4322.50/2,500		
TPS62020DRCR	296-15897-1-ND	600mA High Eff. Step-Down Converter	10-SON	3.90	3.19	2.86
TPS62020DRCR	296-15897-2-ND	600mA High Eff. Step-Down Converter	10-SON	5187.00/3,000		
TPS62020EVM-019	296-18976-ND	Evaluation Module for TPS62020-019	—	50.00	—	—
TPS62021DGQR	296-17179-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.90	3.19	2.86
TPS62021DGQR	296-17179-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	4322.50/2,500		
TPS62021DRCR	296-17180-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	3.90	3.19	2.86
TPS62021DRCR	296-17180-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	5187.00/3,000		
TPS62026DGQR	296-17693-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.90	3.19	2.86
TPS62026DGQR	296-17693-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	4322.50/2,500		
TPS62026DRCR	296-17694-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	3.90	3.19	2.86
TPS62026DRCR	296-17694-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	5187.00/3,000		
TPS62040DGQR	296-15219-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4.20	3.43	3.08
TPS62040DGQR	296-15219-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4655.00/2,500		
TPS62040DRCR	296-15898-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	4.20	3.43	3.08
TPS62040DRCR	296-15898-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	5586.00/3,000		
TPS62040EVM-229	296-18977-ND	Evaluation Module for TPS62040-229	—	50.00	—	—
TPS62042DGQR	296-15220-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4.20	3.43	3.08
TPS62042DGQR	296-15220-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4655.00/2,500		
TPS62042DRCR	296-15899-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	4.20	3.43	3.08
TPS62042DRCR	296-15899-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	5586.00/3,000		
TPS62044DGQR	296-15222-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4.95	4.05	3.63
TPS62044DGQR	296-15222-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5486.25/2,500		
TPS62044DRCR	296-15901-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	4.95	4.05	3.63
TPS62044DRCR	296-15901-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6583.50/3,000		
TPS62046DGQR	296-15223-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4.20	3.43	3.08
TPS62046DGQR	296-15223-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	4655.00/2,500		
TPS62046DRCR	296-15902-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	4.20	3.43	3.08
TPS62046DRCR	296-15902-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	5586.00/3,000		
TPS62046EVM-229	296-18978-ND	Evaluation Module for TPS62046-229	—	50.00	—	—
TPS62050DGSR	296-14392-1-ND	800mA Sync. Step-Down Converter	10-MSOP	3.15	2.43	2.21
TPS62050DGSR	296-14392-2-ND	800mA Sync. Step-Down Converter	10-MSOP	3037.50/2,500		
TPS62050EVM-234	296-20620-ND	Evaluation Module for TPS62050	—	50.00	—	—
TPS62051DGS	296-14209-5-ND	800mA Sync. Step-Down Converter	10-MSOP	5.46	4.39	4.00
TPS62052DGS	296-14210-5-ND	800mA Sync. Step-Down Converter	10-MSOP	5.46	4.39	4.00
TPS62052EVM-234	296-20621-ND	Evaluation Module for TPS62052	—	50.00	—	—

TEXAS INSTRUMENTS DigiReel® *(Cont.)* POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62054DGS	296-14211-5-ND	800mA Sync. Step-Down Converter	10-MSOP	5.46	4.39	4.00
TPS62056DGS	296-14212-5-ND	800mA Sync. Step-Down Converter	10-MSOP	5.46	4.39	4.00
TPS6211EVM-101	296-21163-ND	Evaluation Module for TPS6211X	—	50.00	—	—
TPS62110MRSAREP	296-22462-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	11.26	9.35	8.50
TPS62110MRSAREP	296-22462-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	16575.00/3,000		
TPS62110QRSAREP	296-22463-1-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	3.00	2.45	2.20
TPS62110QRSAREP	296-22463-2-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	3990.00/3,000		
TPS62110RSAR	296-24839-1-ND	17V, 1.5A Sync. Step-Down Converter ***NEW!***	16-QFN	3.90	3.19	2.86
TPS62110RSAR	296-24839-2-ND	17V, 1.5A Sync. Step-Down Converter ***NEW!***	16-QFN	5187.00/3,000		
TPS62110RSAT	296-18580-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	4.50	3.68	3.30
TPS62110RSAT	296-18580-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	693.75/250		
TPS62111MRSAREP	296-22464-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	11.50	9.75	9.00
TPS62111MRSAREP	296-22464-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	19125.00/3,000		
TPS62111RSAT	296-20670-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	4.50	3.68	3.30
TPS62111RSAT	296-20670-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	693.75/250		
TPS62112MRSAREP	296-22465-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	11.50	9.75	9.00
TPS62112MRSAREP	296-22465-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	19125.00/3,000		
TPS62112RSAT	296-19717-1-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	4.50	3.68	3.30
TPS62112RSAT	296-19717-2-ND	17V, 1.5A Sync. Step-Down Converter	16-VQFN	693.75/250		
TPS62113RSAR	296-24199-1-ND	17V, 1.5A Sync. Step-Down Converter* ***NEW!***	16-QFN	3.90	3.19	2.86
TPS62113RSAR	296-24199-2-ND	17V, 1.5A Sync. Step-Down Converter* ***NEW!***	16-QFN	5187.00/3,000		
TPS62200DBVR	296-12716-1-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.49	1.92	1.74
TPS62200DBVR	296-12716-2-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2877.00/3,000		
TPS62200EVM-211	296-20622-ND	Evaluation Module for TPS62200	—	50.00	—	—
TPS62201DBVT	296-12717-1-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3.15	2.43	2.21
TPS62201DBVT	296-12717-2-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	450.00/250		
TPS62202DBVR	296-16730-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.63	2.03	1.84
TPS62202DBVR	296-16730-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3039.00/3,000		
TPS62202DBVT	296-12718-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3.15	2.43	2.21
TPS62202DBVT	296-12718-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	450.00/250		
TPS62203DBVT	296-12719-1-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3.15	2.43	2.21
TPS62203DBVT	296-12719-2-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	450.00/250		
TPS62203EVM-211	296-20623-ND	Evaluation Module for TPS62203	—	50.00	—	—
TPS62204DBVT	296-12720-1-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3.15	2.43	2.21
TPS62204DBVT	296-12720-2-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	450.00/250		
TPS62205DBVT	296-12721-1-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3.15	2.43	2.21
TPS62205DBVT	296-12721-2-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	450.00/250		
TPS62207DBVT	296-17197-1-ND	1.2V, High Efficiency Sync. Step-Down Converter	SOT-23-5	3.15	2.43	2.21
TPS62207DBVT	296-17197-2-ND	1.2V, High Efficiency Sync. Step-Down Converter	SOT-23-5	450.00/250		
TPS62208DBVR	296-16966-1-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.63	2.03	1.84
TPS62208DBVR	296-16966-2-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3037.50/3,000		
TPS62220DDCT	296-15793-1-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62220DDCT	296-15793-2-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5	460.00/250		
TPS62220EVM-014	296-18979-ND	Evaluation Module for TPS62220-014	—	50.00	—	—
TPS62221DDCT	296-15794-1-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62221DDCT	296-15794-2-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	460.00/250		
TPS62221EVM-014	296-18980-ND	Evaluation Module for TPS62221-014	—	50.00	—	—
TPS62222DDCT	296-15795-1-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62222DDCT	296-15795-2-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	460.00/250		
TPS62223DDCR	296-17025-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23-5	2.80	2.16	1.96
TPS62223DDCR	296-17025-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23-5	3240.00/3,000		
TPS62223DDCT	296-17104-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62223DDCT	296-17104-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23-5	460.00/250		
TPS62224DDCT	296-15796-1-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62224DDCT	296-15796-2-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	460.00/250		
TPS62225DDCR	296-24200-1-ND	Adj., 400mA High Eff. Step-Down Converter* ***NEW!***	TSOT-23-5	2.80	2.16	1.96
TPS62225DDCR	296-24200-2-ND	Adj., 400mA High Eff. Step-Down Converter* ***NEW!***	TSOT-23-5	3240.00/3,000		
TPS62227YZGT	296-19611-1-ND	400mA, 1.25MHz High Eff. Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62227YZGT	296-19611-2-ND	400mA, 1.25MHz High Eff. Step-Down Converter	TSOT-23-5	460.00/250		
TPS62228DDCT	296-17453-1-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62228DDCT	296-17453-2-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	460.00/250		
TPS62229DDCT	296-17454-1-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	3.22	2.49	2.26
TPS62229DDCT	296-17454-2-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	460.00/250		

***** RoHS Compliant**

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62233DRYT	296-25262-1-ND	3V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.82	1.41	1.28
TPS62233DRYT	296-25262-2-ND	3V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	260.00/250		
TPS62234DRYT	296-25324-1-ND	2.1V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.82	1.41	1.28
TPS62234DRYT	296-25324-2-ND	2.1V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	260.00/250		
TPS62235DRYT	296-25628-1-ND	1.2V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62235DRYT	296-25628-2-ND	1.2V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	275.00/250		
TPS62236DRYT	296-25629-1-ND	1.85V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62236DRYT	296-25629-2-ND	1.85V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	275.00/250		
TPS62237DRYT	296-25630-1-ND	3.3V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS62237DRYT	296-25630-2-ND	3.3V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	275.00/250		
TPS62238DRYT	296-25325-1-ND	2.25V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.82	1.41	1.28
TPS62238DRYT	296-25325-2-ND	2.25V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	260.00/250		
TPS62239DRYT	296-25326-1-ND	1V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.82	1.41	1.28
TPS62239DRYT	296-25326-2-ND	1V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	260.00/250		
TPS62240DDCT	296-22466-1-ND	Adj., 300mA, 2.25MHz, Step-Down Converter	TSOT-23-5	3.15	2.58	2.31
TPS62240DDCT	296-22466-2-ND	Adj., 300mA, 2.25MHz, Step-Down Converter	TSOT-23-5	485.75/250		
TPS62240DRVT	296-22467-1-ND	Adj., 300mA, 2.25MHz, Step-Down Converter	6-SON	3.30	2.70	2.42
TPS62240DRVT	296-22467-2-ND	Adj., 300mA, 2.25MHz, Step-Down Converter	6-SON	508.75/250		
TPS62242DRVT	296-22855-1-ND	1.2V, 300mA, 2.25MHz Step-Down Converter	6-SON	3.30	2.70	2.42
TPS62242DRVT	296-22855-2-ND	1.2V, 300mA, 2.25MHz Step-Down Converter	6-SON	508.75/250		
TPS62243DRVT	296-22468-1-ND	1.8V, 300mA, 2.25MHz, Step-Down Converter	6-SON	3.30	2.70	2.42
TPS62243DRVT	296-22468-2-ND	1.8V, 300mA, 2.25MHz, Step-Down Converter	6-SON	508.75/250		
TPS62250DRVT	296-23915-1-ND	Adj., 1A, 2.25MHz, Step Down Conv.	6-SON	3.45	2.82	2.53
TPS62250DRVT	296-23915-2-ND	Adj., 1A, 2.25MHz, Step Down Conv.	6-SON	532.00/250		
TPS62260DDCT	296-22469-1-ND	Adj., 600mA, 2.25MHz, Step-Down Converter	TSOT-23-5	3.30	2.70	2.42
TPS62260DDCT	296-22469-2-ND	Adj., 600mA, 2.25MHz, Step-Down Converter	TSOT-23-5	508.75/250		
TPS62260DRVT	296-22470-1-ND	Adj., 600mA, 2.25MHz, Step-Down Converter	6-SON	3.45	2.82	2.53
TPS62260DRVT	296-22470-2-ND	Adj., 600mA, 2.25MHz, Step-Down Converter	6-SON	532.00/250		
TPS62260LED-338	296-23400-ND	Evalutation Module for TPS62260	—	19.40	—	—
TPS62260QDRVRQ1	296-25162-1-ND	Adj., 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	3.45	2.82	2.53
TPS62260QDRVRQ1	296-25162-2-ND	Adj., 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	4588.50/3,000		
TPS62261DRVT	296-22471-1-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter	6-SON	3.45	2.82	2.53
TPS62261DRVT	296-22471-2-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter	6-SON	532.00/250		
TPS62261TDRVRQ1	296-25729-1-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	3.45	2.82	2.53
TPS62261TDRVRQ1	296-25729-2-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	4590.00/3,000		
TPS62262DRVT	296-22472-1-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter	6-SON	3.45	2.82	2.53
TPS62262DRVT	296-22472-2-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter	6-SON	532.00/250		
TPS62262TDRVRQ1	296-25730-1-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	3.45	2.82	2.53
TPS62262TDRVRQ1	296-25730-2-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	4590.00/3,000		
TPS62263DRVR	296-23303-1-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter	6-SON	3.33	2.57	2.33
TPS62263DRVR	296-23303-2-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter	6-SON	3847.50/3,000		
TPS62263TDRVRQ1	296-25731-1-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	3.45	2.82	2.53
TPS62263TDRVRQ1	296-25731-2-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter* ***NEW!***	6-SON	4590.00/3,000		
TPS62270DRVR	296-23427-1-ND	2.25MHz, 400mA Step-Down Conv.	6-SON	3.33	2.57	2.33
TPS62270DRVR	296-23427-2-ND	2.25MHz, 400mA Step-Down Conv.	6-SON	3847.50/3,000		
TPS62272DRVR	296-24205-1-ND	2.25MHz, 400mA Sync. Step-Down Converter* ***NEW!***	6-SON	3.33	2.57	2.33
TPS62272DRVR	296-24205-2-ND	2.25MHz, 400mA Sync. Step-Down Converter* ***NEW!***	6-SON	3847.50/3,000		
TPS62273DRVR	296-23552-1-ND	2.25MHz, 400mA Step-Down Conv.	6-SON	3.00	2.45	2.20
TPS62273DRVR	296-23552-2-ND	2.25MHz, 400mA Step-Down Conv.	6-SON	3990.00/3,000		
TPS62290DRVT	296-22473-1-ND	Adj., 1A Step-Down Converter	6-SON	4.20	3.43	3.08
TPS62290DRVT	296-22473-2-ND	Adj., 1A Step-Down Converter	6-SON	647.50/250		
TPS62291DRVT	296-23330-1-ND	3.3V, 1A Step-Down Converter	6-SON	3.90	3.19	2.86
TPS62291DRVT	296-23330-2-ND	3.3V, 1A Step-Down Converter	6-SON	624.50/250		
TPS62300EVM-085	296-18981-ND	Evaluation Module for TPS62300-085	—	50.00	—	—
TPS62300YZDR	296-18280-1-ND	500mA, 3MHz Sync. Step-Down Conv.	8-DSBGA	3.60	2.94	2.64
TPS62300YZDR	296-18280-2-ND	500mA, 3MHz Sync. Step-Down Conv.	8-DSBGA	4788.00/3,000		
TPS62301DRCR	296-17990-1-ND	500mA, 3MHz Sync. Step-Down Conv.	10-SON	3.45	2.82	2.53
TPS62301DRCR	296-17990-2-ND	500mA, 3MHz Sync. Step-Down Conv.	10-SON	4588.50/3,000		
TPS62301YZDR	296-17290-1-ND	500mA, 3MHz Sync. Step-Down Conv.	8-DSBGA	3.60	2.94	2.64
TPS62301YZDR	296-17290-2-ND	500mA, 3MHz Sync. Step-Down Conv.	8-DSBGA	4788.00/3,000		
TPS62302DRCR	296-18982-1-ND	1.6V, Sync. Step-Down Converter	10-SON	3.45	2.82	2.53
TPS62302DRCR	296-18982-2-ND	1.6V, Sync. Step-Down Converter	10-SON	4588.50/3,000		
TPS62302YZDR	296-17292-1-ND	1.6V, Sync. Step-Down Converter	8-DSBGA	3.60	2.94	2.64
TPS62302YZDR	296-17292-2-ND	1.6V, Sync. Step-Down Converter	8-DSBGA	4788.00/3,000		
TPS62303DRCR	296-18983-1-ND	1.8V, Sync. Step-Down Converter	10-SON	3.45	2.82	2.53
TPS62303DRCR	296-18983-2-ND	1.8V, Sync. Step-Down Converter	10-SON	4588.50/3,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62303YZDT	296-17291-1-ND	1.8V, Sync. Step-Down Converter	8-DSBGA	4.20	3.43	3.08
TPS62303YZDT	296-17291-2-ND	1.8V, Sync. Step-Down Converter	8-DSBGA	647.50/250		
TPS62304DRCR	296-19297-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-SON	3.45	2.82	2.53
TPS62304DRCR	296-19297-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-SON	4588.50/3,000		
TPS62304YZDR	296-19298-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.60	2.94	2.64
TPS62304YZDR	296-19298-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	4788.00/3,000		
TPS62305DRCR	296-18984-1-ND	1.875V, Sync. Step-Down Converter	10-SON	3.45	2.82	2.53
TPS62305DRCR	296-18984-2-ND	1.875V, Sync. Step-Down Converter	10-SON	4588.50/3,000		
TPS62305YZDR	296-18250-1-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.60	2.94	2.64
TPS62305YZDR	296-18250-2-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	4788.00/3,000		
TPS62311YZDR	296-18251-1-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.60	2.94	2.64
TPS62311YZDR	296-18251-2-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	4788.00/3,000		
TPS62313YZDR	296-18304-1-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.60	2.94	2.64
TPS62313YZDR	296-18304-2-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	4788.00/3,000		
TPS62315YZR	296-22897-1-ND	500mA, 3MHz Sync. Step-Down Conv.	8-WCSP	3.45	2.82	2.53
TPS62315YZR	296-22897-2-ND	500mA, 3MHz Sync. Step-Down Conv.	8-WCSP	4588.50/3,000		
TPS62320DRCR	296-18985-1-ND	Adj., Sync. Step-Down Converter	10-SON	3.60	2.94	2.64
TPS62320DRCR	296-18985-2-ND	Adj., Sync. Step-Down Converter	10-SON	4788.00/3,000		
TPS62320YEDT	296-17293-1-ND	Adj., Sync. Step-Down Converter	8-CSP	4.35	3.56	3.19
TPS62320YEDT	296-17293-2-ND	Adj., Sync. Step-Down Converter	8-CSP	670.75/250		
TPS62320YZDT	296-17294-1-ND	Adj., Sync. Step-Down Converter	8-DSBGA	4.35	3.56	3.19
TPS62320YZDT	296-17294-2-ND	Adj., Sync. Step-Down Converter	8-DSBGA	670.75/250		
TPS62321DRCR	296-18986-1-ND	1.5V, Sync. Step-Down Converter	10-SON	3.60	2.94	2.64
TPS62321DRCR	296-18986-2-ND	1.5V, Sync. Step-Down Converter	10-SON	4788.00/3,000		
TPS62321YEDT	296-17295-1-ND	1.5V, Sync. Step-Down Converter	8-CSP	4.35	3.56	3.19
TPS62321YEDT	296-17295-2-ND	1.5V, Sync. Step-Down Converter	8-CSP	670.75/250		
TPS62321YZDT	296-17296-1-ND	1.5V, Sync. Step-Down Converter	8-DSBGA	4.35	3.56	3.19
TPS62321YZDT	296-17296-2-ND	1.5V, Sync. Step-Down Converter	8-DSBGA	670.75/250		
TPS62350YZGR	296-20662-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.00	2.45	2.20
TPS62350YZGR	296-20662-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3990.00/3,000		
TPS62351DRCR	296-22474-1-ND	3MHz, 800mA Sync. Step-Down Conv.	10-SON	3.00	2.45	2.20
TPS62351DRCR	296-22474-2-ND	3MHz, 800mA Sync. Step-Down Conv.	10-SON	3990.00/3,000		
TPS62351YZGR	296-21427-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.00	2.45	2.20
TPS62351YZGR	296-21427-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3990.00/3,000		
TPS62352YZGR	296-21428-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.00	2.45	2.20
TPS62352YZGR	296-21428-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3990.00/3,000		
TPS62353YZGR	296-21644-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.00	2.45	2.20
TPS62353YZGR	296-21644-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3990.00/3,000		
TPS62354YZGR	296-21645-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.00	2.45	2.20
TPS62354YZGR	296-21645-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3990.00/3,000		
TPS62355DRCR	296-22677-1-ND	3MHz, 800mA Sync. Step-Down Conv.	10-SON	3.00	2.45	2.20
TPS62355DRCR	296-22677-2-ND	3MHz, 800mA Sync. Step-Down Conv.	10-SON	3990.00/3,000		
TPS62356YZGR	296-22982-1-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	3.45	2.82	2.53
TPS62356YZGR	296-22982-2-ND	3MHz, 800mA Sync. Step-Down Conv.	12-DSBGA	4588.50/3,000		
TPS62400DRCR	296-25491-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter* ***NEW!***	10-SON	3.45	2.82	2.53
TPS62400DRCR	296-25491-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter* ***NEW!***	10-SON	4590.00/3,000		
TPS62400DRCT	296-20690-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	4.05	3.31	2.97
TPS62400DRCT	296-20690-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	624.50/250		
TPS62401DRCT	296-20691-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	4.05	3.31	2.97
TPS62401DRCT	296-20691-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	624.50/250		
TPS62402DRCT	296-21646-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	4.05	3.31	2.97
TPS62402DRCT	296-21646-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	624.50/250		
TPS62403DRCT	296-21348-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	4.05	3.31	2.97
TPS62403DRCT	296-21348-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	624.50/250		
TPS62410DRCR	296-25488-1-ND	2.25MHz, 2x800mA Dual Step-Down Converter* ***NEW!***	10-SON	3.60	2.94	2.64
TPS62410DRCR	296-25488-2-ND	2.25MHz, 2x800mA Dual Step-Down Converter* ***NEW!***	10-SON	4788.00/3,000		
TPS62410DRCT	296-21647-1-ND	2.25MHz, 2x800mA Dual Step-Down Converter	10-QFN	4.20	3.43	3.08
TPS62410DRCT	296-21647-2-ND	2.25MHz, 2x800mA Dual Step-Down Converter	10-QFN	647.50/250		
TPS62420DRCR	296-25650-1-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter* ***NEW!***	10-SON	3.60	2.94	2.64
TPS62420DRCR	296-25650-2-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter* ***NEW!***	10-SON	4788.00/3,000		
TPS62420DRCT	296-20692-1-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter	10-SON	4.20	3.43	3.08
TPS62420DRCT	296-20692-2-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter	10-SON	647.50/250		
TPS62420QDRCRQ1	296-25732-1-ND	2.25MHz, 600mA Sync. Step-Down DC-DC Converter* ***NEW!***	10-SON	4.20	3.43	3.08
TPS62420QDRCRQ1	296-25732-2-ND	2.25MHz, 600mA Sync. Step-Down DC-DC Converter* ***NEW!***	10-SON	5586.00/3,000		
TPS62510DRCR	296-19793-1-ND	1.5A High Efficiency Step-Down Conv.	10-SON	4.65	3.80	3.41
TPS62510DRCR	296-19793-2-ND	1.5A High Efficiency Step-Down Conv.	10-SON	6186.00/3,000		
TPS62560DRVT	296-23105-1-ND	2.25MHz, 600mA Step-Down Conv.	6-SON	2.63	2.03	1.84
TPS62560DRVT	296-23105-2-ND	2.25MHz, 600mA Step-Down Conv.	6-SON	375.00/250		
TPS62561DDCR	296-23924-1-ND	2.25MHz, 600mA Step-Down Conv.	TSOT-23-5	2.17	1.68	1.52
TPS62561DDCR	296-23924-2-ND	2.25MHz, 600mA Step-Down Conv.	TSOT-23-5	2511.00/3,000		
TPS62562DRVR	296-24078-1-ND	2.25MHz, 600mA Step-Down Conv.	6-SON	2.17	1.68	1.52
TPS62562DRVR	296-24078-2-ND	2.25MHz, 600mA Step-Down Conv.	6-SON	2511.00/3,000		
TPS62590DRVT	296-24173-1-ND	2.25MHz, 1A Step-Down Converter	6-SON	3.15	2.43	2.21
TPS62590DRVT	296-24173-2-ND	2.25MHz, 1A Step-Down Converter	6-SON	450.00/250		
TPS62600YFFR	296-24778-1-ND	1.83V, 500mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.00	2.45	2.20
TPS62600YFFR	296-24778-2-ND	1.83V, 500mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3990.00/3,000		

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS **DigiReel**® *(Cont.)*

POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS62600YFFT	296-23834-1-ND	1.83V, 500mA, 6MHz Sync. Step-Down Converter	6-DSBGA	3.45	2.82	2.53
TPS62600YFFT	296-23834-2-ND	1.83V, 500mA, 6MHz Sync. Step-Down Converter	6-DSBGA	532.00/250		
TPS62601YFFR	296-23831-1-ND	1.8V, 500mA, 6MHz Sync. Step-Down Converter	6-DSBGA	2.98	2.30	2.09
TPS62601YFFR	296-23831-2-ND	1.8V, 500mA, 6MHz Sync. Step-Down Converter	6-DSBGA	3444.00/3,000		
TPS62601YFFT	296-23779-1-ND	500mA, 6MHz Sync. Step-Down Conv.	6-DSBGA	3.00	2.45	2.20
TPS62601YFFT	296-23779-2-ND	500mA, 6MHz Sync. Step-Down Conv.	6-DSBGA	462.50/250		
TPS62615YFDT	296-25573-1-ND	350mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.45	2.82	2.53
TPS62615YFDT	296-25573-2-ND	350mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	532.00/250		
TPS62620YFDT	296-25574-1-ND	600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.45	2.82	2.53
TPS62620YFDT	296-25574-2-ND	600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	532.00/250		
TPS62620YFFR	296-24226-1-ND	600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.00	2.45	2.20
TPS62620YFFR	296-24226-2-ND	600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3990.00/3,000		
TPS62621YFFR	296-24880-1-ND	1.8V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	2.98	2.30	2.09
TPS62621YFFR	296-24880-2-ND	1.8V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3442.50/3,000		
TPS62621YFFT	296-24966-1-ND	1.8V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.00	2.45	2.20
TPS62621YFFT	296-24966-2-ND	1.8V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	462.50/250		
TPS62622YFFR	296-24881-1-ND	1.5V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	2.98	2.30	2.09
TPS62622YFFR	296-24881-2-ND	1.5V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3442.50/3,000		
TPS62622YFFT	296-24967-1-ND	1.5V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.00	2.45	2.20
TPS62622YFFT	296-24967-2-ND	1.5V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	462.50/250		
TPS62623YFDT	296-25575-1-ND	1.225V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3.00	2.45	2.20
TPS62623YFDT	296-25575-2-ND	1.225V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	462.50/250		
TPS62623YFFR	296-24882-1-ND	1.225V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	2.98	2.30	2.09
TPS62623YFFR	296-24882-2-ND	1.225V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3442.50/3,000		
TPS62624YFFR	296-24883-1-ND	1.2V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	2.98	2.30	2.09
TPS62624YFFR	296-24883-2-ND	1.2V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3442.50/3,000		
TPS62625YFFR	296-24884-1-ND	1.2V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	2.98	2.30	2.09
TPS62625YFFR	296-24884-2-ND	1.2V, 600mA, 6MHz Sync. Step-Down Converter* ***NEW!***	6-DSBGA	3442.50/3,000		
TPS62650YFFR	296-25107-1-ND	5.5V, 800mA, Step Down Converter* ***NEW!***	9-DSBGA	3.15	2.58	2.31
TPS62650YFFR	296-25107-2-ND	5.5V, 800mA, Step Down Converter* ***NEW!***	9-DSBGA	4189.50/3,000		
TPS62700YZFR	296-22983-1-ND	650mA, 2MHz Step-Down Converter	8-DSBGA	3.00	2.45	2.20
TPS62700YZFR	296-22983-2-ND	650mA, 2MHz Step-Down Converter	8-DSBGA	3990.00/3,000		
TPS62701YZFT	296-23591-1-ND	650mA, 2MHz Step-Down Converter for RF Power Amp	8-DSBGA	3.45	2.82	2.53
TPS62701YZFT	296-23591-2-ND	650mA, 2MHz Step-Down Converter for RF Power Amp	8-DSBGA	532.00/250		
TPS62750DSKT	296-24885-1-ND	2.25MHz, Step-Down Conv.* ***NEW!***	10-SON	4.20	3.43	3.08
TPS62750DSKT	296-24885-2-ND	2.25MHz, Step-Down Conv.* ***NEW!***	10-SON	647.50/250		
TPS62751DSKT	296-25190-1-ND	High Efficiency Step-Down USB Converter* ***NEW!***	10-SON	4.20	3.43	3.08
TPS62751DSKT	296-25190-2-ND	High Efficiency Step-Down USB Converter* ***NEW***	10-SON	647.50/250		
TPS63030DSKT	296-23903-1-ND	1A Single Buck Boost Converter	10-SON	4.20	3.43	3.08
TPS63030DSKT	296-23903-2-ND	1A Single Buck Boost Converter	10-SON	647.50/250		
TPS63031DSKT	296-23904-1-ND	1A Single Buck Boost Converter	10-SON	4.20	3.43	3.08
TPS63031DSKT	296-23904-2-ND	1A Single Buck Boost Converter	10-SON	647.50/250		
TPS63700DRCT	296-18729-1-ND	DC/DC Inverter	10-SON	5.70	4.66	4.18
TPS63700DRCT	296-18729-2-ND	DC/DC Inverter	10-SON	878.75/250		
TPS63700EVM139	296-18730-ND	Evaluation Module For TPS63700	—	50.00	—	—
TPS64200DBVT	296-15704-1-ND	Adj., Step-Down Controller	SOT-23-6	2.28	1.76	1.60
TPS64200DBVT	296-15704-2-ND	Adj., Step-Down Controller	SOT-23-6	325.00/250		
TPS64202EVM-023	296-18987-ND	Evaluation Module for TPS64202-023	—	50.00	—	—
TPS64203DBVT	296-15707-1-ND	Adj., Step-Down Controller	SOT-23-6	2.28	1.76	1.60
TPS64203DBVT	296-15707-2-ND	Adj., Step-Down Controller	SOT-23-6	325.00/250		
TPS65000RTET	296-24625-1-ND	2.25MHz Dual Step-Down Converter* ***NEW!***	16-QFN	4.95	4.05	3.63
TPS65000RTET	296-24625-2-ND	2.25MHz Dual Step-Down Converter* ***NEW!***	16-QFN	763.25/250		
TPS65001RUKT	296-24626-1-ND	2.25MHz Dual Step-Down Converter* ***NEW!***	20-QFN	6.00	4.90	4.40
TPS65001RUKT	296-24626-2-ND	2.25MHz Dual Step-Down Converter* ***NEW!***	20-QFN	925.00/250		
TPS65055RSMR	296-23822-1-ND	2.25MHz Dual Step-Down Converter	32-QFN	6.00	4.90	4.40
TPS65055RSMR	296-23822-2-ND	2.25MHz Dual Step-Down Converter	32-QFN	7980.00/3,000		
TPS65058RGET	296-23480-1-ND	2.25MHz Dual Step-Down Converter	24-VQFN	6.45	5.27	4.73
TPS65058RGET	296-23480-2-ND	2.25MHz Dual Step-Down Converter	24-VQFN	994.50/250		
TPS65100EVM-030	296-18990-ND	Evaluation Module for TPS65100-030	—	50.00	—	—
TPS65100PWPR	296-17082-1-ND	Quad Output LCD Supply	24-HTSSOP	4.50	3.68	3.30
TPS65100PWPR	296-17082-2-ND	Quad Output LCD Supply	24-HTSSOP	3990.00/2,000		
TPS65100RGER	296-18991-1-ND	Quad Output LCD Supply	24-VQFN	4.65	3.80	3.41
TPS65100RGER	296-18991-2-ND	Quad Output LCD Supply	24-VQFN	6184.50/3,000		
TPS65101PWPR	296-19711-1-ND	Quad Output LCD Supply	24-HTSSOP	3.60	2.94	2.64
TPS65101PWPR	296-19711-2-ND	Quad Output LCD Supply	24-HTSSOP	3192.00/2,000		
TPS65101RGER	296-19712-1-ND	Quad Output LCD Supply	24-VQFN	3.75	3.07	2.75
TPS65101RGER	296-19712-2-ND	Quad Output LCD Supply	24-VQFN	4987.50/3,000		
TPS65105PWPR	296-18992-1-ND	Quad Out LCD Supply with Linear Regulator and VCOM Buffer	24-HTSSOP	4.50	3.68	3.30
TPS65105PWPR	296-18992-2-ND	Quad Out LCD Supply with Linear Regulator and VCOM Buffer	24-HTSSOP	3990.00/2,000		
TPS65105RGER	296-18993-1-ND	Quad Out LCD Supply with Linear Regulator and VCOM Buffer	24-VQFN	4.65	3.80	3.41
TPS65105RGER	296-18993-2-ND	Quad Out LCD Supply with Linear Regulator and VCOM Buffer	24-VQFN	6184.50/3,000		
TPS65110RGE	296-15797-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	4.48	3.60	3.28
TPS65110RGER	296-15841-1-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	3.90	3.19	2.86
TPS65110RGER	296-15841-2-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	5187.00/3,000		
TPS65120EVM-076	296-18994-ND	Evaluation Module for TPS65120-076	—	50.00	—	—
TPS65120RGTR	296-17181-1-ND	Single Inductor Triple Out, TFT Display	16-VQFN	3.33	2.57	2.33
TPS65120RGTR	296-17181-2-ND	Single Inductor Triple Out, TFT Display	16-VQFN	3847.50/3,000		
TPS65121RGTR	296-17182-1-ND	Single Inductor Triple Out, TFT Display	16-VQFN	3.33	2.57	2.33
TPS65121RGTR	296-17182-2-ND	Single Inductor Triple Out, TFT Display	16-VQFN	3847.50/3,000		
TPS65123RGTR	296-17183-1-ND	Single Inductor Quad Out, TFT Display	16-QFN	3.33	2.57	2.33
TPS65123RGTR	296-17183-2-ND	Single Inductor Quad Out, TFT Display	16-QFN	3847.50/3,000		
TPS65124EVM-076	296-18995-ND	Evaluation Module for TPS65124-076	—	50.00	—	—
TPS65124RGTR	296-17184-1-ND	Single Inductor Quad Out, TFT Display	16-QFN	3.33	2.57	2.33
TPS65124RGTR	296-17184-2-ND	Single Inductor Quad Out, TFT Display	16-QFN	3847.50/3,000		
TPS65130EVM-063	296-18996-ND	Evaluation Module for TPS65130-063	—	50.00	—	—
TPS65130RGER	296-17080-1-ND	Positive/Negative Output DC/DC Conv.	24-QFN	5.10	4.17	3.74
TPS65130RGER	296-17080-2-ND	Positive/Negative Output DC/DC Conv.	24-QFN	6783.00/3,000		
TPS65131EVM-063	296-17872-ND	Evaluation Module for TPS65131-63	—	50.00	—	—
TPS65131RGET	296-17349-1-ND	Dual Output DC/DC Converter	24-QFN	6.76	5.61	5.10
TPS65131RGET	296-17349-2-ND	Dual Output DC/DC Converter	24-QFN	1083.75/250		
TPS65140EVM-031	296-18997-ND	Evaluation Module for TPS65140-031	—	50.00	—	—
TPS65140PWPR	296-18998-1-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-HTSSOP	4.20	3.43	3.08
TPS65140PWPR	296-18998-2-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-HTSSOP	3724.00/2,000		
TPS65140RGER	296-18999-1-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-VQFN	4.35	3.56	3.19
TPS65140RGER	296-18999-2-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-VQFN	5785.50/3,000		
TPS65141PWPR	296-19713-1-ND	Quad Output LCD Supply	24-HTSSOP	3.30	2.70	2.42
TPS65141PWPR	296-19713-2-ND	Quad Output LCD Supply	24-HTSSOP	2926.00/2,000		
TPS65141RGER	296-19714-1-ND	Quad Output LCD Supply	24-VQFN	3.45	2.82	2.53
TPS65141RGER	296-19714-2-ND	Quad Output LCD Supply	24-VQFN	4588.50/3,000		
TPS65145IPWPRQ1	296-24084-1-ND	Quad Output LCD Supply with Linear Regulator and Power Good* ***NEW!***	24-HTSSOP	4.95	4.05	3.63
TPS65145IPWPRQ1	296-24084-2-ND	Quad Output LCD Supply with Linear Regulator and Power Good* ***NEW!***	24-HTSSOP	4389.00/2,000		
TPS65145PWPR	296-19000-1-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-HTSSOP	4.20	3.43	3.08
TPS65145PWPR	296-19000-2-ND	Quad Out LCD Supply with Linear Regulator and Power Good	24-HTSSOP	3724.00/2,000		
TPS65145RGER	296-16904-1-ND	Quad Output LCD Supply w/Regulator	24-VQFN	4.35	3.56	3.19
TPS65145RGER	296-16904-2-ND	Quad Output LCD Supply w/Regulator	24-VQFN	5785.50/3,000		
TPS65150PWPR	296-21166-1-ND	Low Input Volt., Compact LCD Bias IC	24-HTSSOP	3.30	2.70	2.42
TPS65150PWPR	296-21166-2-ND	Low Input Volt., Compact LCD Bias IC	24-HTSSOP	2926.00/2,000		
TPS65530ARSLR	296-23408-1-ND	Fully Integrated 8-Ch. DC/DC Converter for Digital Still Cameras	48-QFN	10.34	8.58	7.80
TPS65530ARSLR	296-23408-2-ND	Fully Integrated 8-Ch. DC/DC Converter for Digital Still Cameras	48-QFN	12675.00/2,500		
TPS65530RSLR	296-22947-1-ND	Fully Integrated 8-Channel DC/DC Converter for Digital Still Cameras	48-QFN	10.34	8.58	7.80
TPS65530RSLR	296-22947-2-ND	Fully Integrated 8-Channel DC/DC Converter for Digital Still Cameras	48-QFN	12675.00/2,500		
TPS622310DRYT	296-25323-1-ND	2.3V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.82	1.41	1.28
TPS622310DRYT	296-25323-2-ND	2.3V, 500mA, 3MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	260.00/250		
TPS622311DRYT	296-25627-1-ND	1.1V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	1.93	1.49	1.35
TPS622311DRYT	296-25627-2-ND	1.1V, 500mA, 2MHz, Sync. Step-Down Converter* ***NEW!***	6-SON	275.00/250		
TPS650001RTET	296-25355-1-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	4.95	4.05	3.63
TPS650001RTET	296-25355-2-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	763.25/250		
TPS650003RTET	296-25356-1-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	4.95	4.05	3.63
TPS650003RTET	296-25356-2-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	763.25/250		
TPS650006RTET	296-25357-1-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	4.95	4.05	3.63
TPS650006RTET	296-25357-2-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	16-QFN	763.25/250		
TPS650061RUKT	296-25358-1-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	20-QFN	6.00	4.90	4.40
TPS650061RUKT	296-25358-2-ND	2.25MHz Step-Down Converter with Dual LDOs* ***NEW!***	20-QFN	925.00/250		
TRF1112IRGZT	296-19896-1-ND	Dual VCO/PLL Synthesizer	48-VQFN	34.76	31.29	28.68
TRF1112IRGZT	296-19896-2-ND	Dual VCO/PLL Synthesizer	48-VQFN	6300.25/250		
TRF1121IRGZT	296-19897-1-ND	Dual VCO/PLL Synthesizer	48-VQFN	39.70	35.73	32.76
TRF1121IRGZT	296-19897-2-ND	Dual VCO/PLL Synthesizer	48-VQFN	7195.75/250		
TRF3761-AIRHAT	296-23708-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-AIRHAT	296-23708-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-BIRHAT	296-21354-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-BIRHAT	296-21354-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-CIRHAT	296-21355-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-CIRHAT	296-21355-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-DIRHAT	296-21356-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-DIRHAT	296-21356-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-EIRHAT	296-21357-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-EIRHAT	296-21357-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-FIRHAT	296-21565-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-FIRHAT	296-21565-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-GIRHAT	296-21566-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-GIRHAT	296-21566-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-HIRHAT	296-21358-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-HIRHAT	296-21358-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3761-JIRHAT	296-21359-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.49	12.29	11.34
TRF3761-JIRHAT	296-21359-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2441.25/250		
TRF3762-EIRHAT	296-23705-1-ND	Integer-N PLL with Integrated VCO	40-QFN	21.05	17.85	16.47
TRF3762-EIRHAT	296-23705-2-ND	Integer-N PLL with Integrated VCO	40-QFN	3545.75/250		
UCC3941DTR-3	296-2280-1-ND	1V to 3V Sync. Boost Converter	8-SOIC	3.89	3.18	2.85

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC3941N-5	296-3229-5-ND	5V Synchronous Boost Converter	8-Dip	4.35	3.50	3.19
UCC28810D	296-27162-5-ND	LED Driver Linear* ***NEW!***	8-SOIC	1.34	1.08	.95
UCC28810DR	296-23905-1-ND	LED Driver Linear	8-SOIC	1.22	.96	.87
UCC28810DR	296-23905-2-ND	LED Driver Linear	8-SOIC	1120.00/2,500		
UCC28811DR	296-23906-1-ND	LED Driver Linear	8-SOIC	1.22	.96	.87
UCC28811DR	296-23906-2-ND	LED Driver Linear	8-SOIC	1120.00/2,500		
UCC39411EVM	296-11544-ND	Evaluation Module for UCC39411	—	50.00	—	—
XILINXPWR-079	296-19048-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-080	296-19049-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-081	296-17394-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-082	296-17304-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-083	296-17395-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
Isolators						
ISO15DW	296-23605-5-ND	Isolated Half-Duplex RS-485 Transcvr.	16-SOIC	9.00	7.38	6.66
ISO35DW	296-23609-5-ND	Isolated Full-Duplex RS-485 Transcvr.	16-SOIC	9.00	7.38	6.66
ISO72XEVM	296-20849-ND	Evaluation Module for ISO72X	—	50.00	—	—
ISO150AU	ISO150AU-ND	Dual, Isolated, Bidir. Digital Coupler	28-SOIC	21.34	17.95	16.49
ISO721D	296-19382-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4.76	3.83	3.49
ISO721DUBR	296-24819-1-ND	3.3V/5V High Speed Digital Isolator* ***NEW!***	8-SOP	4.20	3.43	3.08
ISO721DUBR	296-24819-2-ND	3.3V/5V High Speed Digital Isolator* ***NEW!***	8-SOP	906.50/350		
ISO721MMDREP	296-23524-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	13.57	11.51	10.62
ISO721MMDREP	296-23524-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	18806.25/2,500		
ISO721MD	296-19381-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4.90	3.94	3.59
ISO721QDRQ1	296-23652-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4.95	4.05	3.63
ISO721QDRQ1	296-23652-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	5486.25/2,500		
ISO722DR	296-19768-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4.20	3.43	3.08
ISO722DR	296-19768-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4655.00/2,500		
ISO722MDR	296-19769-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4.35	3.56	3.19
ISO722MDR	296-19769-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4822.50/2,500		
ISO722XEVM	296-25751-ND	Eval. Module for ISO722M ***NEW!***	—	50.00	—	—
ISO1050DUBR	296-24818-1-ND	3.3V/5V Isolated CAN Xcvr. ***NEW!***	8-SOP	4.65	3.80	3.41
ISO1050DUBR	296-24818-2-ND	3.3V/5V Isolated CAN Xcvr. ***NEW!***	8-SOP	1003.63/350		
ISO1176DW	296-23604-5-ND	Isolated RS-485 Profibus Transceiver	16-SOIC	10.13	8.31	7.50
ISO3080DW	296-23606-5-ND	Isolated Full-Duplex 5V RS-485 Xcvr.	16-SOIC	7.88	6.46	5.83
ISO3082DW	296-23607-5-ND	Isolated Half-Duplex 5V RS-485 Xcvr.	16-SOIC	7.88	6.46	5.83
ISO3086DW	296-23608-5-ND	Isolated Full-Duplex 5V RS-485 Xcvr.	16-SOIC	9.63	7.90	7.13
ISO3088DW	296-23490-5-ND	Isolated Half-Duplex 5V RS-485 Xcvr.	16-SOIC	9.63	7.90	7.13
ISO7220AD	296-26074-5-ND	1Mbps, Dual Digital Isolator* ***NEW!***	8-SOIC	3.22	2.59	2.36
ISO7220ADR	296-21952-1-ND	1Mbps, Dual Digital Isolator	8-SOIC	3.33	2.57	2.33
ISO7220ADR	296-21952-2-ND	1Mbps, Dual Digital Isolator	8-SOIC	3206.25/2,500		
ISO7220BD	296-23343-5-ND	5Mbps, Dual Digital Isolator	8-SOIC	3.64	2.93	2.67
ISO7220CD	296-26075-5-ND	25Mbps, Dual Digital Isolator* ***NEW!***	8-SOIC	4.06	3.27	2.98
ISO7220CDR	296-21953-1-ND	25Mbps, Dual Digital Isolator	8-SOIC	3.60	2.94	2.64
ISO7220CDR	296-21953-2-ND	25Mbps, Dual Digital Isolator	8-SOIC	3990.00/2,500		
ISO7220MD	296-26076-5-ND	150Mbps, Dual Digital Isolator* ***NEW!***	8-SOIC	5.04	4.05	3.69
ISO7220MDR	296-21954-1-ND	150Mbps, Dual Digital Isolator	8-SOIC	4.50	3.68	3.30
ISO7220MDR	296-21954-2-ND	150Mbps, Dual Digital Isolator	8-SOIC	4987.50/2,500		
ISO7221ADR	296-21955-1-ND	1Mbps, Dual Digital Isolator	8-SOIC	3.33	2.57	2.33
ISO7221ADR	296-21955-2-ND	1Mbps, Dual Digital Isolator	8-SOIC	3207.50/2,500		
ISO7221BD	296-23344-5-ND	5Mbps, Dual Digital Isolator	8-SOIC	3.64	2.93	2.67
ISO7221CD	296-26078-5-ND	25Mbps, Dual Digital Isolator* ***NEW!***	8-SOIC	4.06	3.27	2.98
ISO7221CDR	296-21956-1-ND	25Mbps, Dual Digital Isolator	8-SOIC	3.60	2.94	2.64
ISO7221CDR	296-21956-2-ND	25Mbps, Dual Digital Isolator	8-SOIC	3990.00/2,500		
ISO7221CQDRQ1	296-24954-1-ND	25Mbps Dual Digital Isolator* ***NEW!***	8-SOIC	4.20	3.43	3.08
ISO7221CQDRQ1	296-24954-2-ND	25Mbps Dual Digital Isolator* ***NEW!***	8-SOIC	4655.00/2,500		
ISO7221MDR	296-21957-1-ND	150Mbps, Dual Digital Isolator	8-SOIC	4.05	3.31	2.97
ISO7221MDR	296-21957-2-ND	150Mbps, Dual Digital Isolator	8-SOIC	4490.00/2,500		
ISO7230ADW	296-22624-5-ND	Triple 1Mbps Digital Isolator	16-SOIC	4.76	3.83	3.49
ISO7230CDW	296-22625-5-ND	Triple 25Mbps Digital Isolator	16-SOIC	6.16	4.95	4.51
ISO7230MDW	296-22626-5-ND	Triple 150Mbps Digital Isolator	16-SOIC	6.75	5.54	5.00
ISO7231ADW	296-22959-5-ND	Triple 1Mbps Digital Isolator	16-SOIC	4.76	3.83	3.49
ISO7231CDW	296-22960-5-ND	Triple 25Mbps Digital Isolator	16-SOIC	6.16	4.95	4.51
ISO7231MDW	296-22961-5-ND	Triple 150Mbps Digital Isolator	16-SOIC	6.75	5.54	5.00
ISO7240ADW	296-22627-5-ND	Quad 1Mbps Digital Isolator	16-SOIC	6.44	5.18	4.72
ISO7240CDW	296-22628-5-ND	Quad 25Mbps Digital Isolator	16-SOIC	6.75	5.54	5.00
ISO7240CFDWR	296-22617-1-ND	Quad 25Mbps Digital Isolator	16-SOIC	6.75	5.52	4.95
ISO7240CFDWR	296-22617-2-ND	Quad 25Mbps Digital Isolator	16-SOIC	5986.00/2,000		
ISO7240MDW	296-22629-5-ND	Quad 150Mbps Digital Isolator	16-SOIC	8.25	6.77	6.11
ISO7241ADW	296-22962-5-ND	Quad 1Mbps Digital Isolator	16-SOIC	6.44	5.18	4.72
ISO7241AMDWREP	296-25762-1-ND	Quad 1Mbps Digital Isolator* ***NEW!***	16-SOIC	18.40	15.60	14.40
ISO7241AMDWREP	296-25762-2-ND	Quad 1Mbps Digital Isolator* ***NEW!***	16-SOIC	20400.00/2,000		
ISO7241CDW	296-22963-5-ND	Quad 25Mbps Digital Isolator	16-SOIC	6.75	5.54	5.00
ISO7241MDW	296-22964-5-ND	Quad 150Mbps Digital Isolator	16-SOIC	8.25	6.77	6.11
ISO7242ADW	296-22965-5-ND	Quad 1Mbps Digital Isolator	16-SOIC	6.44	5.18	4.72
ISO7242CDW	296-22966-5-ND	Quad 25Mbps Digital Isolator	16-SOIC	8.75	7.18	6.48
ISO7242MDW	296-22967-5-ND	Quad 150Mbps Digital Isolator	16-SOIC	12.38	10.15	9.16
ISO7420D	296-25582-5-ND	Dual 3V/5.5V Digital Isolator* ***NEW!***	8-SOIC	5.04	4.05	3.69
ISO7420MD	296-25583-5-ND	Dual 3V/5.5V Digital Isolator* ***NEW!***	8-SOIC	6.16	4.95	4.51
ISO7421D	296-25187-5-ND	Dual 250Mbps Digital Isolator* ***NEW!***	8-SOIC	5.04	4.05	3.69
Microprocessor Supervisory Circuit Drivers						
2T28-33QDBVRG4Q1	296-24411-1-ND	Processor Supervisory Circuit* ***NEW!***	SOT-23-5	1.93	1.49	1.35
2T28-33QDBVRG4Q1	296-24411-2-ND	Processor Supervisory Circuit* ***NEW!***	SOT-23-5	2227.50/3,000		
2U3823-33QDBVRG4Q1	296-24412-1-ND	Processor Supervisory Circuit* ***NEW!***	SOT-23-5	1.75	1.35	1.23
2U3823-33QDBVRG4Q1	296-24412-2-ND	Processor Supervisory Circuit* ***NEW!***	SOT-23-5	2025.00/3,000		
2U3823-50QDBVRG4Q1	296-23780-1-ND	Processor Supervisory Circuit	SOT-23-5	1.93	1.49	1.35
2U3823-50QDBVRG4Q1	296-23780-2-ND	Processor Supervisory Circuit	SOT-23-5	2227.50/3,000		
2U3836E18QDBVRG4Q1	296-24413-1-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3.00	2.45	2.20
2U3836E18QDBVRG4Q1	296-24413-2-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3990.00/3,000		
2U3836J25QDBVRG4Q1	296-24414-1-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3.00	2.45	2.20
2U3836J25QDBVRG4Q1	296-24414-2-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3990.00/3,000		
2U3837K33QDBVRG4Q1	296-24415-1-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3.00	2.45	2.20
2U3837K33QDBVRG4Q1	296-24415-2-ND	Nanopower Supervisory Circuit* ***NEW!***	SOT-23-5	3990.00/3,000		
2U3837L30QDBVRG4Q1	296-23491-1-ND	Nanopower Supervisory Circuit	SOT-23-5	3.00	2.45	2.20
2U3837L30QDBVRG4Q1	296-23491-2-ND	Nanopower Supervisory Circuit	SOT-23-5	3990.00/3,000		
TL7700CDGKR	296-24463-1-ND	Adj., Supply Volt. Supervisor* ***NEW!***	8-MSOP	3.75	3.07	2.75
TL7700CDGKR	296-24463-2-ND	Adj., Supply Volt. Supervisor* ***NEW!***	8-MSOP	4156.25/2,500		
TL7700CPWR	296-13050-1-ND	Adj., Supply Voltage Supervisor	8-TSSOP	3.75	3.07	2.75

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7700CPWR	296-13050-2-ND	Adj., Supply Voltage Supervisor	8-TSSOP	3326.00/2,000		
TL7702ACD	296-1295-5-ND	2.53V Supply Monitor	8-SOIC	.72	.56	.49
TL7702ACDR	296-1295-1-ND	2.53V Supply Monitor	8-SOIC	.66	.51	.45
TL7702ACDR	296-1295-2-ND	2.53V Supply Monitor	8-SOIC	545.00/2,500		
TL7702ACP	296-3232-5-ND	2.53V Supply Monitor	8-Dip	.78	.61	.53
TL7702AID	296-3233-5-ND	2.53V Supply Monitor	8-SOIC	.72	.56	.49
TL7702AIDR	296-15017-1-ND	Supply Voltage Supervisor	8-SOIC	.66	.51	.45
TL7702AIP	296-3234-5-ND	2.53V Supply Monitor	8-Dip	.78	.61	.53
TL7702BCD	296-1296-5-ND	2.53V Supply Monitor	8-SOIC	.72	.56	.49
TL7702BCDR	296-1296-1-ND	2.53V Supply Monitor	8-SOIC	.66	.51	.45
TL7702BCDR	296-1296-2-ND	2.53V Supply Monitor	8-SOIC	545.00/2,500		
TL7702BCP	296-3236-5-ND	2.53V Supply Monitor	8-Dip	.66	.52	.45
TL7702BID	296-3237-5-ND	2.53V Supply Monitor* ***NEW!***	8-SOIC	.72	.56	.49
TL7702BIDR	296-15018-1-ND	2.53V Supply Monitor	8-SOIC	.66	.51	.45
TL7702BIDR	296-15018-2-ND	2.53V Supply Monitor	8-SOIC	545.00/2,500		
TL7702BIP	296-3238-5-ND	2.53V Supply Monitor	8-Dip	.78	.61	.53
TL7705ACD	296-1297-5-ND	4.55V Supply Monitor	8-SOIC	.72	.56	.49
TL7705ACDR	296-1297-1-ND	4.55V Supply Monitor	8-SOIC	.66	.51	.45
TL7705ACDR	296-1297-2-ND	4.55V Supply Monitor	8-SOIC	545.00/2,500		
TL7705ACP	296-1801-5-ND	4.55V Supply Monitor	8-Dip	.78	.61	.53
TL7705ACPSR	296-3239-1-ND	4.55V Supply Monitor	8-SOP	.73	.57	.50
TL7705ACPSR	296-3239-2-ND	4.55V Supply Monitor	8-SOP	478.00/2,000		
TL7705AID	296-3240-5-ND	4.55V Supply Monitor	8-SOIC	.72	.56	.49
TL7705AIP	296-3241-5-ND	4.55V Supply Monitor	8-Dip	.78	.61	.53
TL7705BCD	296-1298-5-ND	4.55V Supply Monitor	8-SOIC	.82	.64	.56
TL7705BCP	296-3242-5-ND	4.55V Supply Monitor	8-Dip	.88	.69	.60
TL7705BID	296-3243-5-ND	4.55V Supply Monitor	8-SOIC	.82	.64	.56
TL7705BIP	296-3244-5-ND	4.55V Supply Monitor	8-Dip	.88	.69	.60
TL7705BQD	296-3245-5-ND	4.55V Supply Monitor	8-SOIC	.88	.69	.60
TL7709ACD	296-3247-5-ND	7.6V Supply Monitor	8-SOIC	1.65	1.32	1.16
TL7709ACP	296-3248-5-ND	7.6V Supply Monitor	8-Dip	1.65	1.32	1.16
TL7712ACD	296-3249-5-ND	10.8V Supply Monitor	8-SOIC	1.18	.95	.83
TL7712ACDR	296-15021-1-ND	10.8V Supply Monitor	8-SOIC	1.06	.84	.76
TL7712ACDR	296-15021-2-ND	10.8V Supply Monitor	8-SOIC	980.00/2,500		
TL7712ACP	296-3250-5-ND	10.8V Supply Monitor	8-Dip	.98	.79	.69
TL7715ACD	296-3251-5-ND	Supply Voltage Supervisor	8-SOP	1.65	1.32	1.16
TL7715ACP	296-3252-5-ND	Supply Voltage Supervisor	8-Dip	1.65	1.32	1.16
TL7726CD	296-3253-5-ND	Hex Clamping Circuit	8-SOIC	2.79	2.25	2.03
TL7726CP	296-3254-5-ND	Hex Clamping Circuit	8-Dip	2.95	2.38	2.14
TL7726ID	296-3255-5-ND	Hex Clamping Circuit	8-SOIC	2.79	2.25	2.03
TL7726IDR	296-26726-1-ND	Hex Clamping Circuit* ***NEW!***	8-SOIC	2.63	2.03	1.84
TL7726IDR	296-26726-2-ND	Hex Clamping Circuit* ***NEW!***	8-SOIC	2532.50/2,500		
TL7726IP	296-3256-5-ND	Hex Clamping Circuit	8-Dip	2.95	2.38	2.14
TL7733BCP	296-12953-5-ND	Supply Voltage Supervisor	8-Dip	.66	.52	.45
TL7733BIP	296-13357-5-ND	Supply Voltage Supervisor	8-Dip	.66	.52	.45
TL7757CD	296-3257-5-ND	4.55V Supply Monitor/Volt. Detector	8-SOP	.86	.67	.59
TL7757CDR	296-15023-1-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.79	.62	.54
TL7757CDR	296-15023-2-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	652.50/2,500		
TL7757CLP	296-1992-ND	4.55V Supply Monitor/Volt. Detector	TO-92	.86	.67	.59
TL7757CPK	296-3259-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.79	.62	.54
TL7757CPK	296-3259-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	288.00/1,000		
TL7757ID	296-3260-5-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.86	.67	.59
TL7757ILP	296-3261-5-ND	4.55V Supply Monitor/Volt. Detector	TO-92	.72	.56	.49
TL7757IPK	296-3262-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.79	.62	.54
TL7757IPK	296-3262-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	288.00/1,000		
TL7759CD	296-3263-5-ND	4.55V Supply Monitor	8-SOIC	.96	.75	.65
TL7759CDR	296-24388-1-ND	4.55V Supply Voltage Supervisor* ***NEW!***	8-SOIC	.88	.68	.60
TL7759CDR	296-24388-2-ND	4.55V Supply Voltage Supervisor* ***NEW!***	8-SOIC	725.00/2,500		
TL7759CP	296-3264-5-ND	4.55V Supply Monitor	8-Dip	.91	.73	.64
TL7759CPWR	296-1299-1-ND	4.55V Supply Monitor	8-TSSOP	.88	.68	.60
TL7759CPWR	296-1299-2-ND	4.55V Supply Monitor	8-TSSOP	580.00/2,000		
TL7770-5CDW	296-3265-5-ND	4.55V Dual Supply Monitor	16-SOIC	3.22	2.59	2.36
TL7770-5CN	296-3266-5-ND	4.55V Dual Supply Monitor	16-Dip	2.94	2.37	2.16
TL7770-5IDW	296-3267-5-ND	4.55V Dual Supply Monitor	16-SOIC	3.22	2.59	2.36
TL7770-12CDWR	296-12954-1-ND	Dual Power Supply Supervisor	16-SOIC	4.35	3.56	3.19
TLC7701ID	296-3268-5-ND	1.1V MPU Supply Volt. Supervisor	8-SOIC	1.95	1.58	1.42
TLC7701IP	296-2608-5-ND	1.1V MPU Supply Volt. Supervisor	8-Dip	1.55	1.25	1.13
TLC7701IPW	296-2609-5-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1.95	1.58	1.42
TLC7701IPWR	296-2609-1-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1.75	1.35	1.23
TLC7701IPWR	296-2609-2-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1350.00/2,000		
TLC7701MPWREP	296-19784-1-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	4.98	4.07	3.66
TLC7701QD	296-3270-5-ND	1.1V MPU Supply Volt. Supervisor	8-SOIC	2.08	1.68	1.51
TLC7701QP	296-3271-5-ND	1.1V MPU Supply Volt. Supervisor	8-Dip	1.71	1.38	1.24
TLC7703ID	296-3272-5-ND	2.63V MPU Supply Volt. Supervisor	8-SOIC	2.60	2.10	1.89
TLC7703IP	296-3273-5-ND	2.63V MPU Supply Volt. Supervisor	8-Dip	2.20	1.78	1.60
TLC7703QD	296-2610-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	2.36	1.90	1.71
TLC7703QP	296-13359-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	2.36	1.90	1.71
TLC7705ID	296-1872-5-ND	4.55V Micropower Supply Voltage Supervisor	8-SOIC	1.95	1.58	1.42
TLC7705IP	296-3276-5-ND	4.55V Micropower Supply Voltage Supervisor	8-Dip	1.55	1.25	1.13
TLC7705QD	296-3278-5-ND	4.55V Micropower Supply Voltage Supervisor	8-SOIC	2.08	1.68	1.51
TLC7705QPWREP	296-22417-1-ND	4.55V Micropower Supply Voltage Supervisor	8-TSSOP	3.33	2.57	2.33
TLC7725ID	296-3280-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.60	2.10	1.89
TLC7725QD	296-3281-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.73	2.20	1.98
TLC7725QP	296-13360-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.36	1.90	1.71
TLC7725IP	296-2611-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.20	1.78	1.60
TLC7733ID	296-2612-5-ND	2.93V Micropower Supply Voltage Supervisor	8-SOIC	2.60	2.10	1.89
TLC7733IP	296-3284-5-ND	2.93V Micropower Supply Voltage Supervisor	8-Dip	2.20	1.78	1.60
TLC7733IPWR	296-3285-1-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2.49	1.92	1.74
TLC7733IPWR	296-3285-2-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	1918.00/2,000		
TLC7733QD	296-3286-5-ND	2.93V Micropower Supply Voltage Supervisor	8-SOIC	2.73	2.20	1.98

* RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC7733QP	296-3287-5-ND	2.93V Micropower Supply Voltage Supervisor	8-Dip	2.36	1.90	1.71
TLC7733QPWR	296-3288-1-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2.66	2.06	1.87
TLC7733QPWR	296-3288-2-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2052.00/2,000		
TLC7733QPWREP	296-18143-1-ND	2.93V Micropower Volt. Supervisor	8-TSSOP	3.66	2.99	2.69
TPS3103E12DBVR	296-13393-1-ND	1.14V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3.15	2.43	2.21
TPS3103E12DBVT	296-26930-1-ND	1.142V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit* ***NEW!***	SOT-23-6	3.15	2.58	2.31
TPS3103E12DBVT	296-26930-2-ND	1.142V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit* ***NEW!***	SOT-23-6	485.75/250		
TPS3103E15DBVR	296-13394-1-ND	1.43V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3.15	2.43	2.21
TPS3103E15DBVR	296-13394-2-ND	1.43V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3645.00/3,000		
TPS3103H20DBVR	296-13395-1-ND	1.84V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3.15	2.43	2.21
TPS3103H20DBVR	296-13395-2-ND	1.84V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3645.00/3,000		
TPS3103K33DBVR	296-13396-1-ND	2.94V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3.15	2.43	2.21
TPS3103K33DBVR	296-13396-2-ND	2.94V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3645.00/3,000		
TPS3106K33DBVR	296-13399-1-ND	2.94V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3.15	2.43	2.21
TPS3106K33DBVR	296-13399-2-ND	2.94V, Ultralow Supply-Current/ Supply-Voltage Supervisory Circuit	SOT-23-6	3645.00/3,000		
TPS3123G15DBVT	296-3289-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3123G15DBVT	296-3289-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3123J12DBVT	296-3290-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3123J12DBVT	296-3290-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3123J18DBVT	296-3291-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3123J18DBVT	296-3291-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3124G15DBVT	296-3292-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3124G15DBVT	296-3292-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3124J12DBVT	296-3293-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3124J12DBVT	296-3293-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3124J18DBVT	296-3294-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3124J18DBVT	296-3294-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	475.00/250		
TPS3125G15DBVT	296-2613-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.01	2.33	2.11
TPS3125G15DBVT	296-2613-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	430.00/250		
TPS3125J12DBVT	296-2614-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.01	2.33	2.11
TPS3125J12DBVT	296-2614-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	430.00/250		
TPS3125J18DBVR	296-10898-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.66	2.06	1.87
TPS3125J18DBVT	296-2615-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.01	2.33	2.11
TPS3125J18DBVT	296-2615-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	430.00/250		
TPS3125L30DBVR	296-10899-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.66	2.06	1.87
TPS3125L30DBVT	296-2616-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.01	2.33	2.11
TPS3125L30DBVT	296-2616-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	430.00/250		
TPS3128E12DBVT	296-10903-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3128E15DBVT	296-10904-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3.33	2.57	2.33
TPS3305-18D	296-2617-5-ND	Dual 2.93/1.68 Voltage Monitor	8-SOIC	3.22	2.59	2.36
TPS3305-18DGN	296-26932-5-ND	Dual Processor Supervisory Circuit* ***NEW!***	8-MSOP	3.22	2.59	2.36
TPS3305-18DGNR	296-3299-1-ND	Dual 3.3/1.8 Voltage Monitor	8-MSOP	3.00	2.45	2.20
TPS3305-18DGNR	296-3299-2-ND	Dual 3.3/1.8 Voltage Monitor	8-MSOP	3325.00/2,500		
TPS3305-25D	296-2618-5-ND	Dual 2.93/2.25 Voltage Monitor	8-SOIC	3.22	2.59	2.36
TPS3305-25DGNR	296-3300-1-ND	Dual 3.3/2.5 Voltage Monitor	8-MSOP	3.00	2.45	2.20
TPS3305-25DGNR	296-3300-2-ND	Dual 3.3/2.5 Voltage Monitor	8-MSOP	3325.00/2,500		
TPS3305-33D	296-2619-5-ND	Dual 4.55/2.93 Voltage Monitor	8-SOIC	3.22	2.59	2.36
TPS3305-33DGNR	296-3301-1-ND	Dual 5/3.3 Voltage Monitor	8-MSOP	3.00	2.45	2.20
TPS3305-33DGNR	296-3301-2-ND	Dual 5/3.3 Voltage Monitor	8-MSOP	3325.00/2,500		
TPS3306-15D	296-3302-5-ND	Dual 3.3/1.5 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3306-15DGK	296-3303-5-ND	Dual 3.3/1.5 Voltage Monitor	8-SOP	3.50	2.82	2.57
TPS3306-15QDRG4Q1	296-24774-1-ND	Dual Processor Supervisory Circuit with Power Fail* ***NEW!***	8-SOIC	3.75	3.07	2.75
TPS3306-15QDRG4Q1	296-24774-2-ND	Dual Processor Supervisory Circuit with Power Fail* ***NEW!***	8-SOIC	4156.25/2,500		
TPS3306-18D	296-3304-5-ND	Dual 3.3/1.8 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3306-18DGK	296-3305-5-ND	Dual 3.3/1.8 Voltage Monitor	8-SOP	3.50	2.82	2.57
TPS3306-20D	296-3306-5-ND	Dual 3.3/2 Voltage Monitor	8-SOIC	2.94	2.37	2.16
TPS3306-20DGK	296-3307-5-ND	Dual 3.3/2 Voltage Monitor	8-SOP	2.94	2.37	2.16
TPS3306-25D	296-3308-5-ND	Dual 3.3/2.5 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3306-25DGK	296-3309-5-ND	Dual 3.3/2.5 Voltage Monitor	8-SOP	3.50	2.82	2.57
TPS3306-33D	296-3310-5-ND	Dual 5/3.3 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3306-33DGK	296-3311-5-ND	Dual 5/3.3 Voltage Monitor	8-SOP	3.50	2.82	2.57
TPS3306-33QDRG4Q1	296-24181-1-ND	Dual Processor Supervisory Circuit with Power Fail* ***NEW!***	8-SOIC	3.75	3.07	2.75
TPS3306-33QDRG4Q1	296-24181-2-ND	Dual Processor Supervisory Circuit with Power Fail* ***NEW!***	8-SOIC	4156.25/2,500		
TPS3306-33QDRQ1	296-18948-1-ND	Dual Processor Supervisory Circuit with Power Fail	8-SOIC	3.75	3.07	2.75
TPS3307-18D	296-2620-5-ND	Triple 2.93/1.68/1.25 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3307-18DGNR	296-3312-1-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-MSOP	3.15	2.58	2.31
TPS3307-18DGNR	296-3312-2-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-MSOP	3492.50/2,500		
TPS3307-18MDREP	296-18150-1-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-SOIC	7.10	5.90	5.36
TPS3307-18QDRQ1	296-15641-1-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-SOIC	3.75	3.07	2.75
TPS3307-18QDRQ1	296-15641-2-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-SOIC	4156.25/2,500		
TPS3307-25D	296-2621-5-ND	Triple 2.93/2.25/1.25 Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3307-25DGN	296-26936-5-ND	Triple 2.93/2.25/1.25 Processor Supervisor* ***NEW!***	8-MSOP	3.50	2.82	2.57
TPS3307-25DGNR	296-3313-1-ND	Triple 3.3/2.5/Adj. Voltage Monitor	8-MSOP	3.15	2.58	2.31
TPS3307-25DGNR	296-3313-2-ND	Triple 3.3/2.5/Adj. Voltage Monitor	8-MSOP	3492.50/2,500		
TPS3307-33D	296-3314-5-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	3.50	2.82	2.57
TPS3307-33DR	296-3314-1-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	3.15	2.58	2.31
TPS3307-33DR	296-3314-2-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	3492.50/2,500		
TPS3307-33DGN	296-3315-5-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	3.50	2.82	2.57
TPS3307-33DGNR	296-3315-1-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	3.15	2.58	2.31
TPS3307-33DGNR	296-3315-2-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	3492.50/2,500		
TPS3510D	296-26938-5-ND	PC Power Supply Supervisor* ***NEW!***	8-SOIC	1.44	1.15	1.01
TPS3510P	296-3318-5-ND	3.5V Power Supply Monitor	8-Dip	1.20	.96	.84
TPS3511D	296-15041-5-ND	PC Power Supply Supervisor	8-SOIC	1.71	1.38	1.24
TPS3513D	296-13404-5-ND	PC Power Supply Supervisor	14-SOIC	2.60	2.10	1.89
TPS3513N	296-17024-ND	PC Power Supply Supervisor	14-Dip	2.20	1.78	1.60
TPS3514D	296-13513-5-ND	PC Power Supply Supervisor	14-SOIC	2.08	1.68	1.51
TPS3705-30D	296-2622-5-ND	2.63V Supply Monitor	8-SOIC	2.20	1.78	1.60
TPS3705-30DGN	296-3316-5-ND	2.63V Supply Monitor	8-MSOP	1.83	1.48	1.33
TPS3705-33D	296-2623-5-ND	2.93V Supply Monitor	8-SOIC	2.73	2.20	1.98
TPS3705-33DGNR	296-3319-1-ND	2.93V Supply Monitor	8-MSOP	2.49	1.92	1.74
TPS3705-33DGNR	296-3319-2-ND	2.93V Supply Monitor	8-MSOP	2397.50/2,500		
TPS3705-50D	296-2624-5-ND	4.55V Supply Monitor	8-SOIC	2.85	2.30	2.07
TPS3707-25D	296-2625-5-ND	2.25V Supply Monitor	8-SOIC	2.60	2.10	1.89
TPS3707-30D	296-2626-5-ND	2.63V Supply Monitor	8-SOIC	2.48	2.00	1.80
TPS3707-30DGN	296-3322-5-ND	2.63V Supply Monitor	8-MSOP	2.48	2.00	1.80
TPS3707-33D	296-2627-5-ND	2.93V Supply Monitor	8-SOIC	2.48	2.00	1.80
TPS3707-33DGN	296-3323-5-ND	2.93V Supply Monitor	8-MSOP	2.48	2.00	1.80
TPS3707-50D	296-2628-5-ND	4.55V Supply Monitor	8-SOIC	2.48	2.00	1.80
TPS3707-50DGNR	296-3324-1-ND	4.55V Supply Monitor	8-MSOP	2.35	1.81	1.65
TPS3801-01DCKR	296-12383-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.52	1.20	1.08
TPS3801-01DCKR	296-12383-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1680.00/3,000		
TPS3801E18DCKR	296-12384-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.52	1.20	1.08
TPS3801E18DCKR	296-12384-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1680.00/3,000		
TPS3801J25DCKR	296-3326-1-ND	2.25V Supply Monitor	SC70-5	1.52	1.20	1.08
TPS3801J25DCKR	296-3326-2-ND	2.25V Supply Monitor	SC70-5	1680.00/3,000		
TPS3801K33DCKR	296-3327-1-ND	2.93V Supply Monitor	SC70-5	1.52	1.20	1.08
TPS3801K33DCKR	296-3327-2-ND	2.93V Supply Monitor	SC70-5	1680.00/3,000		
TPS3801L30DCKR	296-3328-1-ND	2.64V Supply Monitor	SC70-5	1.52	1.20	1.08
TPS3801L30DCKR	296-3328-2-ND	2.64V Supply Monitor	SC70-5	1680.00/3,000		
TPS3801T50DCKR	296-12385-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.52	1.20	1.08
TPS3801T50DCKR	296-12385-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1680.00/3,000		
TPS3802K33DCKR	296-12386-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.52	1.20	1.08
TPS3802K33DCKR	296-12386-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1680.00/3,000		
TPS3802L30DCKR	296-13514-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.52	1.20	1.08
TPS3803-01DCKR	296-13405-1-ND	Adj./1.5V Voltage Detector	SC70-5	.96	.75	.66
TPS3803-01DCKR	296-13405-2-ND	Adj./1.5V Voltage Detector	SC70-5	948.00/3,000		
TPS3803-01MDCKREP	296-18151-1-ND	Adj./1.5V Voltage Detector	SC70-5	2.24	1.73	1.57
2T03G15QDCKRG4Q	296-24491-1-ND	Adj./1.5V Voltage Detector* ***NEW!***	SC70-5	.97	.77	.70
2T03G15QDCKRG4Q	296-24491-2-ND	Adj./1.5V Voltage Detector* ***NEW!***	SC70-5	1075.20/3,000		
TPS3803-01QDCKRQ1	296-16960-1-ND	Adj./1.5V Voltage Detector	SC70-5	.97	.77	.70
TPS3805H33DCKR	296-13407-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1.25	.99	.89
TPS3805H33DCKR	296-13407-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1377.00/3,000		
TPS3805H33MDCKREP	296-18152-1-ND	Volt. Detector, Push/Pull Reset Output	SC70-5	3.08	2.38	2.16
TPS3805H33MDCKREP	296-18152-2-ND	Volt. Detector, Push/Pull Reset Output	SC70-5	3564.00/3,000		
TPS3805H33QDCKREP	296-22438-1-ND	Volt. Detector, Push/Pull Reset Output	SC70-5	1.79	1.41	1.27
TPS3805H33QDCKREP	296-22438-2-ND	Volt. Detector, Push/Pull Reset Output	SC70-5	1974.00/3,000		
TPS3805H33QDCKRQ1	296-16962-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1.46	1.15	1.04
TPS3805H33QDCKRQ1	296-16962-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1608.60/3,000		
TPS3806I33DBVR	296-12011-1-ND	Dual Voltage Detector, Adj. Hysteresis	SOT-23-6	1.71	1.35	1.22
TPS3806I33DBVR	296-12011-2-ND	Dual Voltage Detector, Adj. Hysteresis	SOT-23-6	1890.00/3,000		
TPS3808G01DBVR	296-17188-1-ND	Adjustable Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G01DBVR	296-17188-2-ND	Adjustable Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G01DRVR	296-23656-1-ND	Adjustable Voltage Supervisor	6-SON	2.98	2.30	2.09
TPS3808G01QDBVRQ1	296-24775-1-ND	Adj. Voltage Supervisor* ***NEW!***	SOT-23-6	2.98	2.30	2.09
TPS3808G01QDBVRQ1	296-24775-2-ND	Adj. Voltage Supervisor* ***NEW!***	SOT-23-6	3444.00/3,000		
TPS3808G09DBVR	296-17189-1-ND	0.9V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G09DBVR	296-17189-2-ND	0.9V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G12DBVR	296-17190-1-ND	1.2V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G12DBVR	296-17190-2-ND	1.2V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G15DRVR	296-19708-1-ND	1.5V Voltage Supervisor	6-SON	2.98	2.30	2.09
TPS3808G15DRVR	296-19708-2-ND	1.5V Voltage Supervisor	6-SON	3444.00/3,000		
TPS3808G18DBVR	296-17192-1-ND	1.8V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G18DBVR	296-17192-2-ND	1.8V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G18QDBVRQ1	296-24272-1-ND	1.8V Voltage Supervisor* ***NEW!***	SOT-23-6	2.98	2.30	2.09
TPS3808G18QDBVRQ1	296-24272-2-ND	1.8V Voltage Supervisor* ***NEW!***	SOT-23-6	3442.50/3,000		
TPS3808G18DRVR	296-23934-1-ND	1.8V Voltage Supervisor	6-SON	2.98	2.30	2.09
TPS3808G18DRVR	296-23934-2-ND	1.8V Voltage Supervisor	6-SON	3444.00/3,000		
TPS3808G19DBVR	296-23679-1-ND	1.9V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G19DBVR	296-23679-2-ND	1.9V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G25DBVR	296-17193-1-ND	2.5V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G25DBVR	296-17193-2-ND	2.5V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G25DRVR	296-21642-1-ND	2.5V Voltage Supervisor	6-SON	2.98	2.30	2.09
TPS3808G30DBVR	296-17194-1-ND	3.0V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G30DBVR	296-17194-2-ND	3.0V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G33DBVR	296-17195-1-ND	3.3V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G33DBVR	296-17195-2-ND	3.3V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G33MDBVREP	296-23569-1-ND	3.3V Voltage Supervisor	SOT-23-6	7.20	5.88	5.28
TPS3808G50DBVR	296-17196-1-ND	5.0V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3808G50DBVR	296-17196-2-ND	5.0V Voltage Supervisor	SOT-23-6	2835.00/3,000		
TPS3808G50QDBVRQ1	296-23126-1-ND	5.0V Voltage Supervisor	SOT-23-6	2.98	2.30	2.09
TPS3808G125DBVR	296-21347-1-ND	1.25V Voltage Supervisor	SOT-23-6	2.45	1.89	1.72
TPS3809I50DBVR	296-10914-1-ND	4.55V Supply Voltage Supervisor	SOT-23-3	1.03	.80	.71
TPS3809I50DBVR	296-10914-2-ND	4.55V Supply Voltage Supervisor	SOT-23-3	1023.00/3,000		
TPS3809I50DBVT	296-2629-1-ND	4.55V Supply Voltage Supervisor	SOT-23-3	1.03	.81	.73
TPS3809I50DBVT	296-2629-2-ND	4.55V Supply Voltage Supervisor	SOT-23-3	145.25/250		
TPS3809I50QDBVRQ1	296-15642-1-ND	4.55V Supply Voltage Supervisor	SOT-23-3	1.05	.83	.75
TPS3809I50QDBVRQ1	296-15642-2-ND	4.55V Supply Voltage Supervisor	SOT-23-3	1155.00/3,000		
TPS3809J25DBVT	296-2630-1-ND	2.25V Supply Voltage Supervisor	SOT-23-3	1.06	.83	.73

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® *(Cont.)* POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS3809J25DBVT	296-2630-2-ND	2.25V Supply Voltage Supervisor	SOT-23-3	142.25/250		
TPS3809K33DBVR	296-10916-1-ND	2.93V Supply Voltage Supervisor	SOT-23-3	.85	.66	.58
TPS3809K33DBVR	296-10916-2-ND	2.93V Supply Voltage Supervisor	SOT-23-3	840.00/3,000		
TPS3809K33DBVT	296-2631-1-ND	2.93V Supply Voltage Supervisor	SOT-23-3	.85	.66	.58
TPS3809K33DBVT	296-2631-2-ND	2.93V Supply Voltage Supervisor	SOT-23-3	113.50/250		
TPS3809K33QDBVRQ1	296-15644-1-ND	2.93V Supply Voltage Supervisor	SOT-23-3	.99	.77	.68
TPS3809K33QDBVRQ1	296-15644-2-ND	2.93V Supply Voltage Supervisor	SOT-23-3	984.00/3,000		
TPS3809K33MDBVREP	296-22439-1-ND	3.3V Supply Voltage Supervisor	SOT-23-3	2.24	1.73	1.57
TPS3809K33MDBVREP	296-22439-2-ND	3.3V Supply Voltage Supervisor	SOT-23-3	2592.00/3,000		
TPS3809L30DBVR	296-10917-1-ND	2.64V Supply Voltage Supervisor	SOT-23-3	1.03	.80	.71
TPS3809L30DBVR	296-10917-2-ND	2.64V Supply Voltage Supervisor	SOT-23-3	1023.00/3,000		
TPS3809L30DBVT	296-2632-1-ND	2.64V Supply Voltage Supervisor	SOT-23-3	1.03	.81	.73
TPS3809L30DBVT	296-2632-2-ND	2.64V Supply Voltage Supervisor	SOT-23-3	145.25/250		
TPS3809L30MDBVREP	296-22440-1-ND	3V Supply Voltage Supervisor	SOT-23-3	2.24	1.73	1.57
TPS3809L30MDBVREP	296-22440-2-ND	3V Supply Voltage Supervisor	SOT-23-3	2592.00/3,000		
TPS3809L30QDBVRQ1	296-15645-1-ND	2.64V Supply Voltage Supervisor	SOT-23-3	1.05	.83	.75
TPS3813I50QDBVRQ1	296-24776-1-ND	4.55V Supervisor with Programmable Watchdog Window* ***NEW!***	SOT-23-6	3.15	2.58	2.31
TPS3813I50QDBVRQ1	296-24776-2-ND	4.55V Supervisor with Programmable Watchdog Window* ***NEW!***	SOT-23-6	4189.50/3,000		
TPS3813K33MDBVREP	296-22441-1-ND	3.3V Processor Supervisory Circuit	SOT-23-6	6.90	5.64	5.06
TPS3813K33MDBVREP	296-22441-2-ND	3.3V Processor Supervisory Circuit	SOT-23-6	9177.00/3,000		
TPS3820-33DBVT	296-2633-1-ND	2.93V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3820-33DBVT	296-2633-2-ND	2.93V Supply Monitor	SOT-23-5	275.00/250		
TPS3820-33QDBVRQ1	296-15646-1-ND	2.93V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3820-33QDBVRQ1	296-15646-2-ND	2.93V Supply Monitor	SOT-23-5	2229.00/3,000		
TPS3820-50DBVT	296-2635-1-ND	4.55V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3820-50DBVT	296-2635-2-ND	4.55V Supply Monitor	SOT-23-5	275.00/250		
TPS3823-25DBVR	296-3333-1-ND	2.25V Supply Monitor	SOT-23-5	2.07	1.60	1.45
TPS3823-25DBVR	296-3333-2-ND	2.25V Supply Monitor	SOT-23-5	2391.00/3,000		
TPS3823-25QDBVRQ1	296-15648-1-ND	2.25V Supply Monitor	SOT-23-5	2.35	1.81	1.65
TPS3823-30DBVR	296-3334-1-ND	2.63V Supply Monitor	SOT-23-5	1.76	1.39	1.25
TPS3823-30DBVR	296-3334-2-ND	2.63V Supply Monitor	SOT-23-5	1941.00/3,000		
TPS3823-30QDBVRQ1	296-15649-1-ND	2.63V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3823-33DBVR	296-1357-1-ND	2.93V Supply Monitor	SOT-23-5	1.60	1.26	1.14
TPS3823-33DBVR	296-1357-2-ND	2.93V Supply Monitor	SOT-23-5	1764.00/3,000		
TPS3823-50DBVR	296-3335-1-ND	4.55V Supply Monitor	SOT-23-5	1.76	1.39	1.25
TPS3823-50DBVR	296-3335-2-ND	4.55V Supply Monitor	SOT-23-5	1941.00/3,000		
TPS3823-50DBVT	296-10922-1-ND	4.55V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3823-50DBVT	296-10922-2-ND	4.55V Supply Monitor	SOT-23-5	275.00/250		
TPS3824-30DBVR	296-3337-1-ND	2.63V Supply Monitor	SOT-23-5	1.75	1.35	1.23
TPS3824-30DBVR	296-3337-2-ND	2.63V Supply Monitor	SOT-23-5	2025.00/3,000		
TPS3824-33DBVR	296-3338-1-ND	2.93V Supply Monitor	SOT-23-5	1.76	1.39	1.25
TPS3824-33DBVR	296-3338-2-ND	2.93V Supply Monitor	SOT-23-5	1941.00/3,000		
TPS3824-33DBVT	296-26951-1-ND	2.93V Supply Monitor* ***NEW!***	SOT-23-5	1.93	1.49	1.35
TPS3824-33DBVT	296-26951-2-ND	2.93V Supply Monitor* ***NEW!***	SOT-23-5	275.00/250		
TPS3824-50DBVR	296-1358-1-ND	4.55V Supply Monitor	SOT-23-5	1.75	1.35	1.23
TPS3824-50DBVR	296-1358-2-ND	4.55V Supply Monitor	SOT-23-5	2025.00/3,000		
TPS3825-33DBVT	296-2636-1-ND	2.93V Supply Monitor	SOT-23-5	2.07	1.60	1.45
TPS3825-33DBVT	296-2636-2-ND	2.93V Supply Monitor	SOT-23-5	295.00/250		
TPS3825-50DBVT	296-2637-1-ND	4.55V Supply Monitor	SOT-23-5	1.75	1.35	1.23
TPS3825-50DBVT	296-2637-2-ND	4.55V Supply Monitor	SOT-23-5	250.00/250		
TPS3825-50QDBVRQ1	296-15657-1-ND	4.55V Supply Monitor	SOT-23-5	1.75	1.35	1.23
TPS3828-33DBVT	296-2638-1-ND	2.93V Supply Monitor	SOT-23-5	1.93	1.49	1.35
TPS3828-33DBVT	296-2638-2-ND	2.93V Supply Monitor	SOT-23-5	275.00/250		
TPS3828-50DBVT	296-2639-1-ND	4.55V Supply Monitor	SOT-23-5	2.07	1.60	1.45
TPS3828-50DBVT	296-2639-2-ND	4.55V Supply Monitor	SOT-23-5	295.00/250		
TPS3828-50QDBVRG4Q	296-24436-1-ND	5V Supply Monitor* ***NEW!***	SOT-23-5	2.21	1.71	1.55
TPS3828-50QDBVRG4Q	296-24436-2-ND	5V Supply Monitor* ***NEW!***	SOT-23-5	2551.50/3,000		
TPS3828-50QDBVRQ1	296-15659-1-ND	4.55V Supply Monitor	SOT-23-5	2.21	1.71	1.55
TPS3836E18QDBVRQ1	296-15660-1-ND	1.71V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836E18QDBVRQ1	296-15660-2-ND	1.71V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3836H30QDBVRQ1	296-15661-1-ND	2.79V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836J25DBVT	296-3340-1-ND	2.25V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836J25DBVT	296-3340-2-ND	2.25V Low Current Monitor	SOT-23-5	462.50/250		
TPS3836J25QDBVRQ1	296-15662-1-ND	2.25V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836K33DBVT	296-3341-1-ND	2.93V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836K33DBVT	296-3341-2-ND	2.93V Low Current Monitor	SOT-23-5	462.50/250		
TPS3836K33QDBVRQ1	296-15663-1-ND	2.93V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836K33QDBVRQ1	296-15663-2-ND	2.93V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3836L30QDBVRQ1	296-15664-1-ND	2.64V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3836L30QDBVRQ1	296-15664-2-ND	2.64V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3837E18DBVT	296-3343-1-ND	1.71V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3837E18QDBVRQ1	296-15665-1-ND	1.71V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3837E18QDBVRQ1	296-15665-2-ND	1.71V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3837J25DBVT	296-3344-1-ND	2.25V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3837K33DBVT	296-3345-1-ND	2.93V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3837K33DBVT	296-3345-2-ND	2.93V Low Current Monitor	SOT-23-5	462.50/250		
TPS3837K33QDBVREP	296-20786-1-ND	2.93V Low Current Monitor	SOT-23-5	3.48	2.85	2.56
TPS3838E18MDBVREP	296-22442-1-ND	1.8V Nanopower Supervisory Circuit	SOT-23-5	3.00	2.45	2.20
TPS3838E18MDBVREP	296-22442-2-ND	1.8V Nanopower Supervisory Circuit	SOT-23-5	3990.00/3,000		
TPS3838E18QDBVRQ1	296-15669-1-ND	1.71V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3838E18QDBVRQ1	296-15669-2-ND	1.71V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3838K33DBVT	296-3349-1-ND	2.93V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3838K33DBVT	296-3349-2-ND	2.93V Low Current Monitor	SOT-23-5	462.50/250		
TPS3838K33DRVR	296-22631-1-ND	2.93V Low Current Monitor	6-SON	3.33	2.57	2.33
TPS3838K33DRVR	296-22631-2-ND	2.93V Low Current Monitor	6-SON	3849.00/3,000		
TPS3838K33MDBVREP	296-22444-1-ND	3.3V Nanopower Supervisory Circuit	SOT-23-5	3.00	2.45	2.20
TPS3838K33MDBVREP	296-22444-2-ND	3.3V Nanopower Supervisory Circuit	SOT-23-5	3990.00/3,000		
TPS3838K33QDBVRQ1	296-15670-1-ND	2.93V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3838K33QDBVRQ1	296-15670-2-ND	2.93V Low Current Monitor	SOT-23-5	3990.00/3,000		
TPS3838L30DBVT	296-3350-1-ND	2.64V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS3838L30DBVT	296-3350-2-ND	2.64V Low Current Monitor	SOT-23-5	462.50/250		
TPS3838L30QDBVRQ1	296-15671-1-ND	2.64V Low Current Monitor	SOT-23-5	3.00	2.45	2.20
TPS386000RGPT	296-25181-1-ND	Programmable Quad Supply Voltage Monitor* ***NEW!***	20-QFN	6.76	5.61	5.10
TPS386000RGPT	296-25181-2-ND	Programmable Quad Supply Voltage Monitor* ***NEW!***	20-QFN	1083.75/250		
TPS386040RGPT	296-25182-1-ND	Programmable Quad Supply Voltage Monitor* ***NEW!***	20-QFN	6.76	5.61	5.10
TPS386040RGPT	296-25182-2-ND	Programmable Quad Supply Voltage Monitor* ***NEW!***	20-QFN	1083.75/250		

TEXAS INSTRUMENTS Digi-Reel® *(Cont.)* POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS65191RHBR	296-24956-1-ND	Triple High-Voltage Scan Driver* ***NEW!***	32-QFN	3.01	2.33	2.11
TPS65191RHBR	296-24956-2-ND	Triple High-Voltage Scan Driver* ***NEW!***	32-QFN	3483.00/3,000		
TPS65193RGER	296-24943-1-ND	5-Ch. Level Shifter for LCD Displays* ***NEW!***	24-VQFN	2.38	1.84	1.67
TPS65193RGER	296-24943-2-ND	5-Ch. Level Shifter for LCD Displays* ***NEW!***	24-VQFN	2754.00/3,000		
TWL1200ZQCR	296-24629-1-ND	19-Bit Voltage Transceiver* ***NEW!***	48-BGA	4.50	3.68	3.30
TWL1200ZQCR	296-24629-2-ND	19-Bit Voltage Transceiver* ***NEW!***	48-BGA	4987.50/2,500		
TXB0101DBVR	296-21664-1-ND	1-Bit Bidirectional Voltage Level Translator	SOT-23-6	.88	.68	.60
TXB0101DBVR	296-21664-2-ND	1-Bit Bidirectional Voltage Level Translator	SOT-23-6	870.00/3,000		
TXB0101DCKR	296-22861-1-ND	1-Bit Bidirectional Voltage Level Translator	SC70-6	.88	.68	.60
TXB0101DCUR	296-22861-2-ND	1-Bit Bidirectional Voltage Level Translator	SC70-6	870.00/3,000		
TXB0101DRLR	296-24665-1-ND	1-Bit Bidirectional Voltage Level Translator* ***NEW!***	6-SOT	.88	.68	.60
TXB0101DRLR	296-24665-2-ND	1-Bit Bidirectional Voltage Level Translator* ***NEW!***	6-SOT	1160.00/4,000		
TXB0102DCKR	296-22862-1-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	1.48	1.17	1.06
TXB0102DCKR	296-22862-2-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	1638.00/3,000		
TXB0102YZPR	296-21961-1-ND	2-Bit Bidirectional Voltage Level Translator	8-DSBGA	1.57	1.24	1.12
TXB0104DR	296-21928-1-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	2.10	1.62	1.47
TXB0104PWR	296-21929-1-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1.93	1.49	1.35
TXB0104PWR	296-21929-2-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1486.00/2,000		
TXB0104RGYR	296-21930-1-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	1.93	1.49	1.35
TXB0104YZTR	296-24804-1-ND	4-Bit Bidirectional Voltage Level Translator* ***NEW!***	12-DSBGA	2.10	1.62	1.47
TXB0104YZTR	296-24804-2-ND	4-Bit Bidirectional Voltage Level Translator* ***NEW!***	12-DSBGA	2430.00/3,000		
TXB0104ZXUR	296-20795-1-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	1.93	1.49	1.35
TXB0104ZXUR	296-20795-2-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	1857.50/2,500		
TXB0106IPWRQ1	296-24960-1-ND	6-Bit Bidirectional Voltage Level Translator* ***NEW!***	16-TSSOP	2.63	2.03	1.84
TXB0106IPWRQ1	296-24960-2-ND	6-Bit Bidirectional Voltage Level Translator* ***NEW!***	16-TSSOP	2026.00/2,000		
TXB0106PWR	296-23759-1-ND	6-Bit Bidirectional Voltage Level Translator	16-TSSOP	2.45	1.89	1.72
TXB0108ZXYR	296-22000-1-ND	8-Bit Bidirectional Voltage Level Translator	20-BGA	2.80	2.16	1.96
TXB0108ZXYR	296-22000-2-ND	8-Bit Bidirectional Voltage Level Translator	20-BGA	2700.00/2,500		
TXS0101DBVR	296-22863-1-ND	1-Bit Bidirectional Voltage Level Translator	SOT-23-6	.88	.68	.60
TXS0101DBVR	296-22863-2-ND	1-Bit Bidirectional Voltage Level Translator	SOT-23-6	870.00/3,000		
TXS0101DCKR	296-22864-1-ND	1-Bit Bidirectional Voltage Level Translator	SC70-6	.88	.68	.60
TXS0101YZPR	296-24805-1-ND	1-Bit Bidirectional Voltage Level Translator* ***NEW!***	6-DSBGA	1.06	.82	.72
TXS0101YZPR	296-24805-2-ND	1-Bit Bidirectional Voltage Level Translator* ***NEW!***	6-DSBGA	1044.00/3,000		
TXS0102DCTR	296-21978-1-ND	2-Bit Bidirectional Voltage Level Translator	SM8	1.25	.99	.90
TXS0102DCTR	296-21978-2-ND	2-Bit Bidirectional Voltage Level Translator	SM8	1386.00/3,000		
TXS0102DCUR	296-21931-1-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	1.25	.99	.90
TXS0102DCUR	296-21931-2-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	1386.00/3,000		
TXS0102YZPR	296-21932-1-ND	2-Bit Bidirectional Voltage Level Translator	8-DSBGA	1.33	1.05	.95
TXS0102YZPR	296-21932-2-ND	2-Bit Bidirectional Voltage Level Translator	8-DSBGA	1470.00/3,000		
TXS0104EDR	296-20696-1-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	2.28	1.76	1.60
TXS0104EDR	296-20696-2-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	2195.00/2,500		
TXS0104EPWR	296-20697-1-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	2.28	1.76	1.60
TXS0104EPWR	296-20697-2-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1756.00/2,000		
TXS0104ERGYR	296-20698-1-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	2.45	1.89	1.72
TXS0104ERGYR	296-20698-2-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	2835.00/3,000		
TXS0104EZXUR	296-20699-1-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	2.45	1.89	1.72
TXS0108EPWR	296-23011-1-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	2.80	2.16	1.96
TXS0108EPWR	296-23011-2-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	2160.00/2,000		
TXS0108ERGYR	296-24806-1-ND	8-Bit Bidirectional Voltage Level Translator* ***NEW!***	20-QFN	2.80	2.16	1.96
TXS0108ERGYR	296-24806-2-ND	8-Bit Bidirectional Voltage Level Translator* ***NEW!***	20-QFN	3240.00/3,000		
TXS0108EZXYR	296-24807-1-ND	8-Bit Bidirectional Voltage Level Translator* ***NEW!***	20-BGA	2.80	2.16	1.96
TXS0108EZXYR	296-24807-2-ND	8-Bit Bidirectional Voltage Level Translator* ***NEW!***	20-BGA	2700.00/2,500		
TXS0206YFPR	296-24274-1-ND	MMC/SD/Memory Stick™ Voltage Level Translator* ***NEW!***	20-DSBGA	1.93	1.49	1.35
TXS0206YFPR	296-24274-2-ND	MMC/SD/Memory Stick™ Voltage Level Translator* ***NEW!***	20-DSBGA	2229.00/3,000		

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TXS0206-29YFPR	296-25577-1-ND	MMC/SD/Memory Stick™ Voltage Level Translator* ***NEW!***	20-DSBGA	2.10	1.62	1.47
TXS0206-29YFPR	296-25577-2-ND	MMC/SD/Memory Stick™ Voltage Level Translator* ***NEW!***	20-DSBGA	2430.00/3,000		
TXS02612ZQSR	296-24808-1-ND	SDIO Port Expander* ***NEW!***	24-BGA	1.79	1.41	1.27
TXS02612ZQSR	296-24808-2-ND	SDIO Port Expander* ***NEW!***	24-BGA	1645.00/2,500		
UC2543DW	296-3355-5-ND	2.5V Power Supply Monitor	16-SOIC	9.00	7.38	6.66
UC2543N	296-3356-5-ND	2.5V Power Supply Monitor	16-Dip	9.00	7.38	6.66
UC2903DW	296-2640-5-ND	Quad Voltage Supply Monitor	18-SOIC	7.13	5.85	5.28
UC3543N	296-3358-5-ND	2.5V Power Supply Monitor	16-Dip	8.00	6.56	5.92
UC3544N	296-3359-5-ND	2.5V Power Supply Monitor	18-Dip	6.02	4.84	4.41
UC3903DW	296-2642-5-ND	Quad Voltage Supply Monitor	18-SOIC	6.38	5.23	4.72
UC3910D	296-2644-5-ND	4-Bit DAC and Voltage Monitor	16-SOIC	7.13	5.85	5.28
UC3910N	296-11346-5-ND	4-Bit DAC and Voltage Monitor	16-Dip	7.13	5.85	5.28
UC39432D	296-11350-5-ND	Precision Analog Controller	8-SOIC	12.87	10.83	9.95
UC39432N	296-11351-5-ND	Precision Analog Controller	8-Dip	12.87	10.83	9.95
UCC2946D	296-2645-5-ND	Microprocessor Supervisor with Watchdog Timer	8-SOIC	4.48	3.60	3.28
UCC3946D	296-2646-5-ND	Microprocessor Supervisor with Watchdog Timer	8-SOIC	4.48	3.60	3.28
UCC3946N	296-11547-5-ND	Microprocessor Supervisor with Watchdog Timer	8-Dip	3.78	3.04	2.77
		MOSFET / MOSFET Drivers				
SN75372D	296-3360-5-ND	Dual MOSFET Driver	8-SOIC	3.07	2.48	2.23
SN75372DR	296-14958-1-ND	Dual MOSFET Driver	8-SOIC	3.15	2.43	2.21
SN75372DR	296-14958-2-ND	Dual MOSFET Driver	8-SOIC	3037.50/2,500		
SN75372P	296-3361-5-ND	Dual MOSFET Driver	8-Dip	2.79	2.25	2.03
SN75374D	296-3362-5-ND	Quad MOSFET Driver	16-SOIC	3.39	2.73	2.49
TPS1100D	296-3379-5-ND	P-Channel MOSFET, Rise Time 10nS	8-SOIC	1.86	1.50	1.35
TPS1101D	296-3381-5-ND	P-Channel MOSFET, Rise Time 5.5nS	8-SOIC	2.79	2.25	2.03
TPS1120D	296-1352-5-ND	Dual P-Channel MOSFET	8-SOIC	2.48	2.00	1.80
TPS1120DR	296-1352-1-ND	Dual P-Channel MOSFET	8-SOIC	2.45	1.89	1.72
TPS1120DR	296-1352-2-ND	Dual P-Channel MOSFET	8-SOIC	2362.50/2,500		
TPS2811D	296-2385-5-ND	Dual 2A Invert MOSFET Driver	8-SOIC	2.80	2.25	2.05
TPS2811P	296-3363-5-ND	Dual 2A HS Invert MOSFET Driver	8-Dip	2.80	2.25	2.05
TPS2811PW	296-15640-5-ND	Dual 2A HS Invert MOSFET Driver	8-TSSOP	2.80	2.25	2.05
TPS2812D	296-3364-5-ND	Dual 2A HS Non-Invert FET Driver	8-SOIC	2.20	1.78	1.60
TPS2812P	296-3365-5-ND	Dual 2A HS Non-Invert FET Driver	8-Dip	2.20	1.78	1.60
TPS2813D	296-1356-5-ND	Dual 2A High Speed Complementary MOSFET Driver	8-SOIC	2.94	2.37	2.16
TPS2813DR	296-1356-1-ND	Dual 2A Complementary MOSFET Dvr.	8-SOIC	3.08	2.38	2.16
TPS2813DR	296-1356-2-ND	Dual 2A Complementary MOSFET Dvr.	8-SOIC	2970.00/2,500		
TPS2813P	296-2386-5-ND	Dual 2A Complementary MOSFET Dvr.	8-Dip	2.94	2.37	2.16
TPS2813PWR	296-3367-1-ND	Dual 2A Complementary MOSFET Dvr.	8-TSSOP	3.08	2.38	2.16
TPS2814D	296-3368-5-ND	Dual 2A High Speed MOSFET Driver	8-SOIC	2.08	1.68	1.51
TPS2814P	296-2387-5-ND	Dual 2A MOSFET Driver	8-Dip	2.08	1.68	1.51
TPS2815D	296-2388-5-ND	Dual 2A NAND MOSFET Driver	8-SOIC	2.36	1.90	1.71
TPS2815P	296-3370-5-ND	Dual 2A HS NAND MOSFET Driver	8-Dip	2.36	1.90	1.71
TPS2816DBVR	296-3371-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2.21	1.71	1.55
TPS2816DBVR	296-3371-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2553.00/3,000		
TPS2817DBVR	296-3372-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2.21	1.71	1.55
TPS2818MDBVREP	296-23101-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	3.72	3.04	2.73
TPS2818MDBVREP	296-23101-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	4947.60/3,000		
TPS2819DBVR	296-3374-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2.21	1.71	1.55
TPS2819DBVR	296-3374-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2553.00/3,000		
TPS2828DBVR	296-1986-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2.00	1.54	1.40
TPS2828DBVR	296-1986-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2310.00/3,000		
TPS2829DBVR	296-1987-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2.00	1.54	1.40
TPS2829DBVR	296-1987-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2310.00/3,000		
TPS2830D	296-2390-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	14-SOIC	3.64	2.93	2.67
TPS2830PWP	296-3376-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	14-HTSSOP	3.64	2.93	2.67
TPS2831D	296-2391-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	14-SOIC	3.64	2.93	2.67
TPS2831PWP	296-3377-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	14-HTSSOP	3.64	2.93	2.67
TPS2832D	296-2392-5-ND	Non-Invert Fast Sync. BUCK FET Dvr.	8-SOIC	3.36	2.70	2.46
TPS2833D	296-2393-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	8-SOIC	3.36	2.70	2.46
TPS2834D	296-2394-5-ND	Non-Invert Fast Sync. BUCK FET Dvr.	14-SOIC	3.64	2.93	2.67
TPS2834PWP	296-3378-5-ND	Non-Invert Fast Sync. BUCK FET Dvr.	14-HTSSOP	3.64	2.93	2.67
TPS2835D	296-2395-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	14-SOIC	3.64	2.93	2.67
TPS2835PWP	296-10885-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	14-HTSSOP	3.64	2.93	2.67
TPS2836D	296-2396-5-ND	Non-Invert Fast Sync. BUCK FET Dvr.	8-SOIC	3.22	2.59	2.36
TPS2838PWP	296-10886-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	16-HTSSOP	4.34	3.49	3.18
TPS2839PWP	296-10887-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	16-HTSSOP	4.90	3.94	3.59
TPS2848PWP	296-10888-5-ND	MOSFET Driver with Regulator	14-HTSSOP	4.06	3.27	2.98
TPS2849PWP	296-10889-5-ND	MOSFET Driver with Regulator	14-HTSSOP	4.06	3.27	2.98
TPS2837D	296-2397-5-ND	Invert Fast Sync. BUCK MOSFET Dvr.	8-SOIC	4.20	3.38	3.08
TPS28225D	296-19791-5-ND	High-Freq. 4A Sync. MOSFET Driver	8-SOIC	2.20	1.78	1.60
TPS28226DR	296-22853-1-ND	High-Freq. 4A Sync. MOSFET Driver	8-SOIC	2.00	1.54	1.40
TPS28226DR	296-22853-2-ND	High-Freq. 4A Sync. MOSFET Driver	8-SOIC	1925.00/2,500		
UC2709DW	296-2398-5-ND	Dual High Speed MOSFET Driver	16-SOIC	9.13	7.49	6.76
UC2710N	296-2399-5-ND	High Current MOSFET Driver	8-Dip	10.63	8.72	7.87
UC2714D	296-12113-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	3.50	2.82	2.57
UC2714N	296-12171-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	3.50	2.82	2.57
UC2715D	296-12172-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	3.36	2.70	2.46
UC2715DP	296-12173-5-ND	Complementary Switch FET Driver with Aux Out	16-SOIC	3.36	2.70	2.46
UC2715N	296-12174-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	3.36	2.70	2.46
UC3706N	296-11242-5-ND	Dual High Speed MOSFET Driver	16-Dip	6.88	5.64	5.09
UC3709DW	296-2400-5-ND	Dual High Speed MOSFET Driver	16-SOIC	8.75	7.18	6.48
UC3709N	296-11245-5-ND	Dual High Speed MOSFET Driver	8-Dip	7.25	5.95	5.37
UC3710DW	296-2401-5-ND	High Current MOSFET Driver	16-SOIC	9.75	8.00	7.22
UC3710N	296-11246-5-ND	High-Current MOSFET Driver	8-Dip	8.13	6.67	6.02
UC3710T	296-11247-5-ND	High-Current MOSFET Driver	TO-220-5	8.13	6.67	6.02
UC3714D	296-11253-5-ND	High-Current MOSFET Driver	8-SOIC	3.22	2.59	2.36
UC3714DP	296-11254-5-ND	High-Current MOSFET Driver	16-SOIC	3.22	2.59	2.36
UC3714N	296-11255-5-ND	High-Current MOSFET Driver	8-Dip	3.22	2.59	2.36
UC3715D	296-11256-5-ND	High-Current MOSFET Driver	8-SOIC	3.08	2.48	2.26
UC3715DP	296-11668-5-ND	Complementary Switch MOSFET Driver with Aux Out	16-SOIC	3.08	2.48	2.26
UC3715N	296-11257-5-ND	High-Current MOSFET Driver	8-Dip	3.08	2.48	2.26
UCC2837D	296-2403-5-ND	N-FET Linear Regulating Controller	8-SOIC	7.63	6.26	5.65
UCC27200D	296-21432-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	4.26	3.42	3.12
UCC27200DDA	296-21433-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	4.26	3.42	3.12
UCC27200QDDARQ1	296-23593-1-ND	120V Boot, 3A Peak, High Frequency High-Side/Low-Side Driver	8-SO	4.41	3.61	3.24
UCC27200QDDARQ1	296-23593-2-ND	120V Boot, 3A Peak, High Frequency High-Side/Low-Side Driver	8-SO	4887.50/2,500		
UCC27201D	296-21435-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	4.26	3.42	3.12
UCC27201DDA	296-21436-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-HSOIC	4.26	3.42	3.12
UCC27201QDDARQ1	296-23835-1-ND	120V Boot, 3A Peak, High Freq. High-Side/ Low-Side Driver	8-HSOIC	4.41	3.61	3.24
UCC27201QDDARQ1	296-23835-2-ND	120V Boot, 3A Peak, High Freq. High-Side/ Low-Side Driver	8-HSOIC	4887.50/2,500		
UCC27321D	296-13670-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-SOIC	3.64	2.93	2.67
UCC27321DGN	296-13671-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-MSOP	3.92	3.15	2.87
UCC27321P	296-13672-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-Dip	3.64	2.93	2.67
UCC27321QDRQ1	296-25745-1-ND	9A Single High Speed Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3.60	2.94	2.64
UCC27321QDRQ1	296-25745-2-ND	9A Single High Speed Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3990.00/2,500		
UCC27322D	296-13673-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-SOIC	3.64	2.93	2.67
UCC27322DGN	296-13674-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-MSOP	3.92	3.15	2.87
UCC27322P	296-13675-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-Dip	3.64	2.93	2.67
UCC27322QDRQ1	296-25746-1-ND	9A Single High Speed Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3.60	2.94	2.64
UCC27322QDRQ1	296-25746-2-ND	9A Single High Speed Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3990.00/2,500		
UCC27323D	296-12528-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.64	2.13	1.92
UCC27323DGN	296-12529-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.95	2.38	2.14
UCC27323P	296-12530-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.95	2.38	2.14
UCC27324D	296-12531-5-ND	4A Dual HS Low-Side MOSFET Driver	8-SOIC	2.64	2.13	1.92
UCC27324DGN	296-12532-5-ND	4A Dual HS Low-Side MOSFET Driver	8-MSOP	2.95	2.38	2.14
UCC27324P	296-12533-5-ND	4A Dual HS Low-Side MOSFET Driver	8-Dip	2.95	2.38	2.14
UCC27324QDRQ1	296-23486-1-ND	4A Dual HS Low-Side MOSFET Driver	8-SOIC	2.80	2.16	1.96
UCC27325D	296-12534-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.64	2.13	1.92
UCC27325DGN	296-12535-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.95	2.38	2.14
UCC27325P	296-12536-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.95	2.38	2.14
UCC27423D	296-15864-5-ND	4A Dual HS Low-Side MOSFET Driver	8-SOIC	2.94	2.37	2.16
UCC27423DGN	296-15865-5-ND	4A Dual HS Low-Side MOSFET Driver	8-MSOP	2.94	2.37	2.16
UCC27423MDREP	296-25466-1-ND	4A Dual HS MOSFET Driver* ***NEW!***	8-SOIC	11.50	9.75	9.00
UCC27423MDREP	296-25466-2-ND	4A Dual HS MOSFET Driver* ***NEW!***	8-SOIC	15937.50/2,500		
UCC27423P	296-15866-5-ND	4A Dual HS Low-Side MOSFET Driver	8-Dip	2.94	2.37	2.16
UCC27423QDRQ1	296-24480-1-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3.47	2.68	2.43
UCC27423QDRQ1	296-24480-2-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3341.25/2,500		
UCC27424D	296-15867-5-ND	4A Dual HS Low-Side MOSFET Driver	8-SOIC	2.95	2.38	2.14
UCC27424DGN	296-15868-5-ND	4A Dual HS Low-Side MOSFET Driver	8-MSOP	2.95	2.38	2.14
UCC27424MDGNREP	296-22533-1-ND	4A Dual HS Low-Side MOSFET Driver	8-MSOP	7.20	5.88	5.28
UCC27424P	296-15869-5-ND	4A Dual HS Low-Side MOSFET Driver	8-Dip	2.95	2.38	2.14
UCC27424QDRQ1	296-24481-1-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3.33	2.57	2.33
UCC27424QDRQ1	296-24481-2-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3206.25/2,500		
UCC27425D	296-15870-5-ND	4A Dual HS Low-Side MOSFET Driver	8-SOIC	2.95	2.38	2.14
UCC27425DGN	296-15871-5-ND	4A Dual HS Low-Side MOSFET Driver	8-MSOP	2.95	2.38	2.14
UCC27425P	296-15872-5-ND	4A Dual HS Low-Side MOSFET Driver	8-Dip	2.95	2.38	2.14
UCC27425QDRQ1	296-25241-1-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3.33	2.57	2.33
UCC27425QDRQ1	296-25241-2-ND	4A Dual HS Low-Side MOSFET Driver* ***NEW!***	8-SOIC	3206.25/2,500		
UCC37321D	296-13684-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-SOIC	3.36	2.70	2.46
UCC37321DGN	296-13685-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-MSOP	3.64	2.93	2.67
UCC37321P	296-13686-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-Dip	3.36	2.70	2.46
UCC37322D	296-13687-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-SOIC	3.36	2.70	2.46
UCC37322DGN	296-13688-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-MSOP	3.64	2.93	2.67
UCC37322P	296-13689-5-ND	9A Single High Speed Low-Side MOSFET Driver with Enable	8-Dip	3.36	2.70	2.46
UCC37323D	296-15691-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-SOIC	2.48	2.00	1.80
UCC37323DGN	296-15692-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-MSOP	2.79	2.25	2.03
UCC37323P	296-15693-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-Dip	2.64	2.13	1.92
UCC37324D	296-15694-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-SOIC	2.48	2.00	1.80
UCC37324DGN	296-15695-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-MSOP	2.79	2.25	2.03
UCC37324P	296-15696-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-Dip	2.64	2.13	1.92
UCC37325D	296-15697-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-SOIC	2.48	2.00	1.80
UCC37325DGN	296-15698-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-MSOP	2.79	2.25	2.03

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC37325P	296-15699-5-ND	4A Dual High Speed Low-Side, Power MOSFET Driver	8-Dip	2.64	2.13	1.92
UCD7100PWP	296-18042-5-ND	Digital Control Compatible Single Low Side ±4A MOSFET Driver	14-HTSSOP	3.36	2.70	2.46
UCD7201PWP	296-17924-5-ND	MOSFET Driver with Single Common Current Sense	14-HTSSOP	4.06	3.27	2.98
		Power Distribution Switches				
TPS2010AD	296-2555-5-ND	0.2A, 5.5V Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2011AD	296-2556-5-ND	1.2A, 5.5V Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2011APWP	296-13804-5-ND	1.2A, 5.5V Power Distribution Switch	14-HTSSOP	2.94	2.37	2.16
TPS2011D	296-3386-5-ND	1.2A, 5.5V Power Distribution Switch	8-SOIC	3.22	2.59	2.36
TPS2012AD	296-2557-5-ND	1.0A, 5.5V Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2012D	296-1957-5-ND	1.0A, 5.5V Power Distribution Switch	8-SOIC	3.22	2.59	2.36
TPS2013AD	296-2558-5-ND	1.5A, 5.5V Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2013APWPR	296-17531-1-ND	2.2A, 5.5V Power Distribution Switch	14-HTSSOP	2.98	2.30	2.09
TPS2013D	296-1353-5-ND	1.5A, 5.5V Power Distribution Switch	8-SOIC	3.22	2.59	2.36
TPS2013DR	296-1353-1-ND	1.5A, 5.5V Power Distribution Switch	8-SOIC	3.33	2.57	2.33
TPS2013DR	296-1353-2-ND	1.5A, 5.5V Power Distribution Switch	8-SOIC	3206.25/2,500		
TPS2014D	296-1354-5-ND	0.66A, 5.5V Power Distribution Switch	8-SOIC	6.66	5.36	4.88
TPS2014DR	296-1354-1-ND	0.66A, 5.5V Power Distribution Switch	8-SOIC	6.00	4.90	4.40
TPS2014DR	296-1354-2-ND	0.66A, 5.5V Power Distribution Switch	8-SOIC	6650.00/2,500		
TPS2014P	296-3389-5-ND	0.66A, 5.5V Power Distribution Switch	8-Dip	5.60	4.50	4.10
TPS2015D	296-1355-5-ND	1.0A, 5.5V Power Distribution Switch	8-SOIC	6.66	5.36	4.88
TPS2015DR	296-1355-1-ND	1.0A, 5.5V Power Distribution Switch	8-SOIC	6.00	4.90	4.40
TPS2015DR	296-1355-2-ND	1.0A, 5.5V Power Distribution Switch	8-SOIC	6650.00/2,500		
TPS2015P	296-3390-5-ND	1.0A, 5.5V Power Distribution Switch	8-Dip	5.60	4.50	4.10
TPS2020D	296-2560-5-ND	0.22A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2021D	296-2561-5-ND	0.66A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2021IDRQ1	296-23678-1-ND	0.66A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	3.00	2.45	2.20
TPS2021IDRQ1	296-23678-2-ND	0.66A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	3325.00/2,500		
TPS2022D	296-2562-5-ND	1.1A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2022DRG4Q1	296-24551-1-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3.00	2.45	2.20
TPS2022DRG4Q1	296-24551-2-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3325.00/2,500		
TPS2023D	296-2563-5-ND	1.65A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2023P	296-12233-5-ND	1.65A, 5.5V Hot-Swap Power Distribution Switch	8-Dip	2.67	2.15	1.94
TPS2024D	296-2564-5-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2024DR	296-2564-1-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	3.01	2.33	2.11
TPS2024DR	296-2564-2-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2902.50/2,500		
TPS2024P	296-12234-5-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-Dip	2.67	2.15	1.94
TPS2030D	296-2565-5-ND	300mA, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2030IDRG4Q1	296-24435-1-ND	300mA, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3.00	2.45	2.20
TPS2030IDRG4Q1	296-24435-2-ND	300mA, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3325.00/2,500		
TPS2030IDRQ1	296-18668-1-ND	300mA, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	3.00	2.45	2.20
TPS2030IDRQ1	296-18668-2-ND	300mA, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	3325.00/2,500		
TPS2030P	296-3392-5-ND	900mA, 5.5V Hot-Swap Power Distribution Switch	8-Dip	2.67	2.15	1.94
TPS2031D	296-2566-5-ND	900mA, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2032D	296-2567-5-ND	1.5A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2032QDRQ1	296-24850-1-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3.00	2.45	2.20
TPS2032QDRQ1	296-24850-2-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-SOIC	3325.00/2,500		
TPS2033D	296-2568-5-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-SOIC	2.94	2.37	2.16
TPS2034D	296-2569-5-ND	3A, 5.5V Hot-Swap Power Dist. Switch	8-SOIC	2.94	2.37	2.16
TPS2034P	296-12236-5-ND	2.2A, 5.5V Hot-Swap Power Distribution Switch	8-Dip	2.94	2.37	2.16
TPS2041AD	296-3393-5-ND	0.9A, 5.5V Power Distribution Switch	8-SOIC	2.76	2.23	2.01
TPS2041BD	296-22880-5-ND	0.7A, 5.5V, Power Distribution Switch	16-SOIC	1.86	1.50	1.35
TPS2041BDBVR	296-21263-1-ND	0.7A, 5.5V, Power Distribution Switch	SOT-23-5	1.75	1.35	1.23
TPS2041BDBVR	296-21263-2-ND	0.7A, 5.5V, Power Distribution Switch	SOT-23-5	2025.00/3,000		
TPS2041BDGN	296-18930-5-ND	0.7A, 5.5V, Power Distribution Switch	8-MSOP	2.17	1.75	1.58
TPS2041BQDBVRQ1	296-25159-1-ND	0.5A, 5.5V Power Distribution Switch* ***NEW!***	SOT-23-5	2.10	1.62	1.47
TPS2041BQDBVRQ1	296-25159-2-ND	0.5A, 5.5V Power Distribution Switch* ***NEW!***	SOT-23-5	2430.00/3,000		
TPS2041D	296-3394-5-ND	0.9A, 5.5V Power Distribution Switch	8-SOIC	3.81	3.06	2.79
TPS2041P	296-2570-5-ND	0.9A, 5.5V Power Distribution Switch	8-Dip	3.22	2.59	2.36
TPS2042AD	296-3395-5-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	3.11	2.50	2.28
TPS2042BDGN	296-17060-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2042BDR	296-17002-1-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	2.35	1.81	1.65
TPS2042BDR	296-17002-2-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	2262.50/2,500		
TPS2042BQDRQ1	296-24204-1-ND	5.5V Current-Limited Power Distribution Switch* ***NEW!***	8-SOIC	2.84	2.19	1.99
TPS2042BQDRQ1	296-24204-2-ND	5.5V Current-Limited Power Distribution Switch* ***NEW!***	8-SOIC	2733.75/2,500		
TPS2042D	296-3396-5-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	4.54	3.65	3.33
TPS2042DR	296-3396-1-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	4.08	3.34	3.00
TPS2042DR	296-3396-2-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	4522.50/2,500		
TPS2042P	296-2571-5-ND	Dual (1in/2out), 900mA, 5.5V Power Distribution Switch	8-Dip	3.81	3.06	2.79
TPS2043AD	296-3397-5-ND	Triple (2in/3out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	3.70	2.97	2.71
TPS2043BD	296-17211-5-ND	Triple (2in/3out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	3.08	2.48	2.26
TPS2043D	296-2572-5-ND	Triple (2in/3out), 900mA, 5.5V Power Distribution Switch	16-SOIC	5.71	4.59	4.19
TPS2044AD	296-3399-5-ND	Quad (2in/4out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	4.28	3.45	3.14
TPS2044BD	296-18931-5-ND	Quad (2in/4out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	3.05	2.46	2.24
TPS2044D	296-1959-5-ND	Quad (2in/4out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	6.48	5.31	4.80
TPS2045AD	296-3400-5-ND	0.5A, 5.5V Power Distribution Switch	8-SOIC	2.20	1.78	1.60
TPS2045D	296-2573-5-ND	0.44A, 5.5V Power Distribution Switch	8-SOIC	3.81	3.06	2.79
TPS2046AD	296-3403-5-ND	Dual (1in/2out), 0.345A, 5.5V Power Distribution Switch	8-SOIC	2.86	2.30	2.10
TPS2046D	296-2574-5-ND	Dual (1in/2out), 440mA, 5.5V Power Distribution Switch	8-SOIC	4.40	3.54	3.22
TPS2046DR	296-2574-1-ND	Dual (1in/2out), 0.345A, 5.5V Power Distribution Switch	8-SOIC	3.96	3.24	2.91
TPS2046P	296-3405-5-ND	Dual (1in/2out), 0.345A, 5.5V Power Distribution Switch	8-Dip	3.70	2.97	2.71
TPS2047AD	296-3406-5-ND	Triple (2in/3out), 0.345A, 5.5V Power Distribution Switch	16-SOIC	3.44	2.77	2.53
TPS2047BD	296-17403-5-ND	Triple (2in/3out), 0.345A, 5.5V Power Distribution Switch	16-SOIC	3.01	2.43	2.19
TPS2047D	296-2575-5-ND	Triple (2in/3out), 440mA, 5.5V Power Distribution Switch	16-SOIC	5.71	4.59	4.19
TPS2048AD	296-3408-5-ND	Quad (2in/4out), 0.345A, 5.5V Power Distribution Switch	16-SOIC	3.72	3.00	2.73
TPS2049D	296-21264-5-ND	Single Channel, 100mA, 5.5V Power Switch	8-SOIC	1.71	1.38	1.24
TPS2049DR	296-26910-1-ND	Single Channel, 100mA, 5.5V Power Switch* ***NEW!***	8-SOIC	1.76	1.39	1.25
TPS2049DR	296-26910-2-ND	Single Channel, 100mA, 5.5V Power Switch* ***NEW!***	8-SOIC	1617.50/2,500		
TPS2051AD	296-3410-5-ND	0.9A, 5.5V Power Distribution Switch	8-SOIC	2.39	1.93	1.74
TPS2051BDBVR	296-21265-1-ND	0.7A, 5.5V Power Distribution Switch	SOT-23-5	1.81	1.43	1.29
TPS2051BDBVR	296-21265-2-ND	0.7A, 5.5V Power Distribution Switch	SOT-23-5	1995.00/3,000		
TPS2051BDGN	296-26913-5-ND	1A, 5.5V Power Distribution Switch* ***NEW!***	8-MSOP	2.08	1.68	1.51
TPS2051BDGNR	296-17313-1-ND	0.7A, 5.5V Power Distribution Switch	8-MSOP	1.82	1.44	1.30
TPS2051BDGNR	296-17313-2-ND	0.7A, 5.5V Power Distribution Switch	8-MSOP	1680.00/2,500		
TPS2051BDR	296-16987-1-ND	0.7A, 5.5V Power Distribution Switch	8-SOIC	1.81	1.43	1.29
TPS2051BDR	296-16987-2-ND	0.7A, 5.5V Power Distribution Switch	8-SOIC	1662.50/2,500		
TPS2051D	296-2576-5-ND	0.9A, 5.5V Power Distribution Switch	8-SOIC	3.70	2.97	2.71
TPS2051P	296-3411-5-ND	0.9A, 5.5V Power Distribution Switch	8-Dip	3.11	2.50	2.28
TPS2052AD	296-3412-5-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	3.04	2.45	2.21
TPS2052BDR	296-17451-1-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	2.28	1.76	1.60
TPS2052BDR	296-17451-2-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SOIC	2195.00/2,500		
TPS2052BDRBT	296-23967-1-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SON	2.63	2.03	1.84
TPS2052BDRBT	296-23967-2-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-SON	375.00/250		
TPS2052BDGN	296-17459-5-ND	Dual (1in/2out), 0.7A, 5.5V Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2052D	296-2577-5-ND	Dual (1in/2out), 0.9A, 5.5V Power Distribution Switch	8-SOIC	4.40	3.54	3.22
TPS2053AD	296-3415-5-ND	Triple (2in/3out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	3.44	2.77	2.53
TPS2053BD	296-18932-5-ND	Triple (2in/3out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	3.01	2.43	2.19
TPS2053D	296-2578-5-ND	Triple (2in/3out), 0.9A, 5.5V Power Distribution Switch	16-SOIC	5.71	4.59	4.19
TPS2054AD	296-3417-5-ND	Quad (2in/4out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	4.54	3.65	3.33
TPS2054D	296-1960-5-ND	Quad (2in/4out), 0.7A, 5.5V Power Distribution Switch	16-SOIC	6.80	5.58	5.04
TPS2055AD	296-3418-5-ND	0.5A, 5.5V Power Distribution Switch	8-SOIC	1.77	1.43	1.29
TPS2055D	296-2579-5-ND	0.44A, 5.5V Power Distribution Switch	8-SOIC	3.70	2.97	2.71
TPS2056AD	296-3421-5-ND	Dual (1in/2out), 0.345A, 5.5V Power Distribution Switch	8-SOIC	2.36	1.90	1.71
TPS2056D	296-2580-5-ND	Dual (1in/2out), 440mA, 5.5V Power Distribution Switch	8-SOIC	4.40	3.54	3.22
TPS2057AD	296-3423-5-ND	Triple (2in/3out), 0.345A, 5.5V Power Distribution Switch	16-SOIC	2.94	2.37	2.16
TPS2057D	296-2581-5-ND	Triple (2in/3out), 440mA, 5.5V Power Distribution Switch	16-SOIC	5.71	4.59	4.19
TPS2058AD	296-3425-5-ND	Quad (2in/4out), 0.345A, 5.5V Power Distribution Switch	16-SOIC	2.95	2.38	2.14
TPS2060DGN	296-18023-5-ND	1.5A, 80m-Ohm, Dual Current-Limited, Power-Distribution Switch	8-MSOP	3.36	2.70	2.46
TPS2061D	296-18024-5-ND	1A, 80m-Ohm, Single Current-Limited, Power Distribution Switch	8-SOIC	2.17	1.75	1.58
TPS2061DGNR	296-17225-1-ND	Curr. Limited Pwr-Distribution Switch	8-MSOP	2.28	1.76	1.60
TPS2061DGNR	296-17225-2-ND	Curr. Limited Pwr-Distribution Switch	8-MSOP	2195.00/2,500		
TPS2061DR	296-26914-1-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-SOIC	2.10	1.62	1.47
TPS2061DR	296-26914-2-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-SOIC	2025.00/2,500		
TPS2062D	296-18933-5-ND	1A, 5.5V Dual Pwr Distribution Switch	8-SOIC	2.79	2.25	2.03
TPS2062DGN	296-17536-5-ND	1.5A, 5.5V Dual Pwr Dist. Switch	8-MSOP	2.80	2.25	2.05
TPS2062DGNR	296-26915-1-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-MSOP	2.98	2.30	2.09
TPS2062DGNR	296-26915-2-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-MSOP	2870.00/2,500		
TPS2062DR	296-26916-1-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-SOIC	2.63	2.03	1.84
TPS2062DR	296-26916-2-ND	Curr. Limited Pwr-Distribution Switch* ***NEW!***	8-SOIC	2532.50/2,500		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS2062DR-1	296-21658-1-ND	1A, 5.5V Dual Pwr Distribution Switch	8-SOIC	2.63	2.03	1.84
TPS2062DR-1	296-21658-2-ND	1A, 5.5V Dual Pwr Distribution Switch	8-SOIC	2532.50/2,500		
TPS2062QDGNRQ1	296-25160-1-ND	1A, 5.5V Dual Power Distribution Switch* ***NEW!***	8-MSOP	2.98	2.30	2.09
TPS2062QDGNRQ1	296-25160-2-ND	1A, 5.5V Dual Power Distribution Switch* ***NEW!***	8-MSOP	2870.00/2,500		
TPS2063DR	296-17386-1-ND	1.5A, 5.5V Triple Power Dist. Switch	16-SOIC	3.15	2.43	2.21
TPS2063DR	296-17386-2-ND	1.5A, 5.5V Triple Power Dist. Switch	16-SOIC	3037.50/2,500		
TPS2064DGN	296-17871-5-ND	Current-Limited, Dual Power-Distribution Switch	8-MSOP	3.36	2.70	2.46
TPS2065DBVT	296-23996-1-ND	1A, Current-Limited Power Distribution Switch	SOT23-5	2.28	1.76	1.60
TPS2065DBVT	296-23996-2-ND	1A, Current-Limited Power Distribution Switch	SOT23-5	325.00/250		
TPS2065DGN-1	296-21641-5-ND	1.5A, 5.5V Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2066ADR	296-23376-1-ND	Dual Current Limited, Power Distribution Switch	8-SOIC	2.63	2.03	1.84
TPS2066ADR	296-23376-2-ND	Dual Current Limited, Power Distribution Switch	8-SOIC	2532.50/2,500		
TPS2066ADRBR	296-23393-1-ND	Dual Current Limited, Power Distribution Switch	8-SON	2.63	2.03	1.84
TPS2066ADRBR	296-23393-2-ND	Dual Current Limited, Power Distribution Switch	8-SON	3039.00/3,000		
TPS2066D	296-18934-5-ND	1A, 5.5V Dual Pwr Distribution Switch	8-SOIC	2.79	2.25	2.03
TPS2066DGN-1	296-21890-5-ND	Dual, 1A Current Limited, Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2068D	296-22977-5-ND	Single, 1.5A Current-Limited, Power Distribution Switch	8-SOIC	2.79	2.25	2.03
TPS2068DGN	296-21891-5-ND	Single, 1.5A Current-Limited, Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2068IDGNRQ1	296-25161-1-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-MSOP	2.98	2.30	2.09
TPS2068IDGNRQ1	296-25161-2-ND	1.5A, 5.5V Power Distribution Switch* ***NEW!***	8-MSOP	2870.00/2,500		
TPS2069DGN	296-21892-5-ND	Single, 1.5A Current-Limited, Power Distribution Switch	8-MSOP	2.79	2.25	2.03
TPS2070DAP	296-3427-5-ND	Pwr Cont. for Bus/Self Powered Hub	32-HTSSOP	8.00	6.56	5.92
TPS2071DAP	296-3428-5-ND	Pwr Cont. for Bus/Self Powered Hub	32-HTSSOP	8.00	6.56	5.92
TPS2071EVM-159	296-10877-ND	Evaluation Module for TPS2071	—	101.00	—	—
TPS2074DB	296-3429-5-ND	USB Hub Power Cont., Active Low	24-SSOP	9.63	7.90	7.13
TPS2075DB	296-3430-5-ND	USB Hub Power Cont., Active High	24-SSOP	9.63	7.90	7.13
TPS2080D	296-3431-5-ND	Dual (2in/2out), 0.7A, 5.5V Power Distribution Switch, Active High	8-SOIC	2.48	2.00	1.80
TPS2080EVM	296-13571-ND	Evaluation Module for TPS2080	—	50.00	—	—
TPS2081D	296-3432-5-ND	Dual (2in/2out), 0.7A, 5.5V Power Distribution Switch, Active Low	8-SOIC	2.02	1.63	1.47
TPS2082D	296-3433-5-ND	Dual (2in/2out), 0.7A, 5.5V Power Distribution Switch, Active Low	8-SOIC	2.48	2.00	1.80
TPS2085D	296-3434-5-ND	Quad (4in/4out), 0.7A, 5.5V Power Distribution Switch, Active High	16-SOIC	3.64	2.93	2.67
TPS2086D	296-3435-5-ND	Quad (4in/4out), 0.7A, 5.5V Power Distribution Switch, Active Low	16-SOIC	2.94	2.37	2.16
TPS2087D	296-3436-5-ND	Quad (4in/4out), 0.7A, 5.5V Power Distribution Switch, Active Low	16-SOIC	3.64	2.93	2.67
TPS2090D	296-3437-5-ND	Dual (2in/2out), 0.3A, 5.5V Power Distribution Switch, Active High	8-SOIC	2.48	2.00	1.80
TPS2091D	296-3438-5-ND	Dual (2in/2out), 0.3A, 5.5V Power Distribution Switch, Active Low	8-SOIC	2.48	2.00	1.80
TPS2092D	296-3439-5-ND	Dual (2in/2out), 0.3A, 5.5V Power Distribution Switch, Active Low	8-SOIC	2.48	2.00	1.80
TPS2095D	296-3440-5-ND	Quad (4in/4out), 0.3A, 5.5V Power Distribution Switch, Active High	16-SOIC	2.94	2.37	2.16
TPS2096D	296-3441-5-ND	Quad (4in/4out), 0.3A, 5.5V Power Distribution Switch, Active Low	16-SOIC	2.94	2.37	2.16
TPS2097D	296-3442-5-ND	Quad (4in/4out), 0.3A, 5.5V Power Distribution Switch, Active Low	16-SOIC	3.64	2.93	2.67
TPS2100D	296-2583-5-ND	VAUX Power Distribution Switch	8-SOIC	2.02	1.63	1.47
TPS2100DBVR	296-10878-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.80	2.16	1.96
TPS2100DBVT	296-2584-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.15	2.43	2.21
TPS2100DBVT	296-2584-2-ND	VAUX Power Distribution Switch	SOT-23-5	450.00/250		
TPS2101D	296-2585-5-ND	VAUX Power Distribution Switch	8-SOIC	2.02	1.63	1.47
TPS2101DBVR	296-10879-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.28	1.76	1.60
TPS2101DBVR	296-10879-2-ND	VAUX Power Distribution Switch	SOT-23-5	2632.50/3,000		
TPS2101DBVT	296-2586-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.63	2.03	1.84
TPS2101DBVT	296-2586-2-ND	VAUX Power Distribution Switch	SOT-23-5	375.00/250		
TPS2102D	296-2587-5-ND	VAUX Power Distribution Switch	8-SOIC	2.79	2.25	2.03
TPS2102DBVR	296-10880-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.15	2.43	2.21
TPS2102DBVR	296-10880-2-ND	VAUX Power Distribution Switch	SOT-23-5	3645.00/3,000		
TPS2102DBVT	296-2588-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.15	2.58	2.31
TPS2102DBVT	296-2588-2-ND	VAUX Power Distribution Switch	SOT-23-5	485.75/250		
TPS2103D	296-2589-5-ND	VAUX Power Distribution Switch	8-SOIC	2.33	1.88	1.69
TPS2103DBVR	296-10881-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.15	2.43	2.21
TPS2103DBVR	296-10881-2-ND	VAUX Power Distribution Switch	SOT-23-5	3645.00/3,000		
TPS2103DBVT	296-2590-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.15	2.58	2.31
TPS2103DBVT	296-2590-2-ND	VAUX Power Distribution Switch	SOT-23-5	485.75/250		
TPS2104DBVR	296-10882-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.45	2.82	2.53
TPS2104DBVR	296-10882-2-ND	VAUX Power Distribution Switch	SOT-23-5	4588.50/3,000		
TPS2104DBVT	296-3447-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.90	3.19	2.86
TPS2104DBVT	296-3447-2-ND	VAUX Power Distribution Switch	SOT-23-5	601.25/250		
TPS2105D	296-2592-5-ND	VAUX Power Distribution Switch	8-SOIC	3.22	2.59	2.36
TPS2105DBVR	296-10883-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.45	2.82	2.53
TPS2105DBVR	296-10883-2-ND	VAUX Power Distribution Switch	SOT-23-5	4590.00/3,000		
TPS2105DBVT	296-3448-1-ND	VAUX Power Distribution Switch	SOT-23-5	3.90	3.19	2.86
TPS2105DBVT	296-3448-2-ND	VAUX Power Distribution Switch	SOT-23-5	601.25/250		
TPS2110APWR	296-16935-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.63	2.03	1.84
TPS2110APWR	296-16935-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2025.00/2,000		
TPS2110PW	296-14202-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.79	2.25	2.03
TPS2111AEVM-061	296-18935-ND	Evaluation Module for TPS2111A-061	—	10.20	—	—
TPS2111APWR	296-16936-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.63	2.03	1.84
TPS2111APWR	296-16936-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2026.00/2,000		
TPS2111PW	296-14203-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.79	2.25	2.03
TPS2111EVM	296-20588-ND	Evaluation Module for TPS2111	—	50.00	—	—
TPS2112APWR	296-16937-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.63	2.03	1.84
TPS2112APWR	296-16937-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2025.00/2,000		
TPS2113AEVM-061	296-18936-ND	Evaluation Module for TPS2113A-061	—	10.20	—	—
TPS2113APWR	296-16938-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.63	2.03	1.84
TPS2113APWR	296-16938-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2026.00/2,000		
TPS2113EVM	296-20589-ND	Evaluation Module for TPS2113	—	50.00	—	—
TPS2113PW	296-14205-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.79	2.25	2.03
TPS2114APWR	296-16939-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	3.33	2.57	2.33
TPS2114APWR	296-16939-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2565.00/2,000		
TPS2114PW	296-14206-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	3.22	2.59	2.36
TPS2115ADRBR	296-23394-1-ND	2-Input Autoswitching Power Mux	8-SON	2.63	2.03	1.84
TPS2115ADRBR	296-23394-2-ND	2-Input Autoswitching Power Mux	8-SON	3037.50/3,000		
TPS2115AEVM-061	296-18937-ND	Evaluation Module for TPS2115A-061	—	10.20	—	—
TPS2115AIPWRQ1	296-24155-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	3.15	2.43	2.21
TPS2115AIPWRQ1	296-24155-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2430.00/2,000		
TPS2115APWR	296-16940-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.63	2.03	1.84
TPS2115APWR	296-16940-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	2026.00/2,000		
TPS2115EVM	296-20590-ND	Evaluation Module for TPS2115	—	50.00	—	—
TPS2115PW	296-14207-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	2.79	2.25	2.03
TPS2145IPWP	296-13385-5-ND	LDO/Dual Switch, Controlled Rise Times for DSP/Portable Applications	14-HTSSOP	4.90	3.94	3.59
TPS2147IDGQ	296-13386-5-ND	LDO/Dual Switch,Controlled Rise Times for DSP/Portable Applications	10-MSOP	4.48	3.60	3.28
TPS2148IDGN	296-13387-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	3.50	2.82	2.57
TPS2149IDGN	296-13388-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Mgmt.	8-MSOP	3.08	2.48	2.26
TPS2155IPWP	296-13389-5-ND	LDO/Dual Switch, Controlled Rise Times for DSP/Portable Applications	14-HTSSOP	4.06	3.27	2.98
TPS2158IDGN	296-13391-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	4.20	3.38	3.08
TPS2159IDGN	296-13392-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Mgmt.	8-MSOP	3.22	2.59	2.36
TPS2201IDFR	296-3450-1-ND	Dual PCMCIA Power Switch	30-SSOP	16.22	13.75	12.69
TPS2201IDFR	296-3450-2-ND	Dual PCMCIA Power Switch	30-SSOP	9377.00/1,000		
TPS2204APWP	296-15133-5-ND	Dual PCMCIA Power Switch	24-HTSSOP	6.24	5.02	4.58
TPS2205IDAPR	296-3454-1-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	7.69	6.38	5.80
TPS2205IDAPR	296-3454-2-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	7540.00/2,000		
TPS2205IDFR	296-3456-1-ND	Dual PCMCIA Power I/F Switch	30-SSOP	7.69	6.38	5.80
TPS2205IDFR	296-3456-2-ND	Dual PCMCIA Power I/F Switch	30-SSOP	3915.00/1,000		
TPS2206ADAP	296-15134-5-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	6.38	5.23	4.72
TPS2206ADB	296-14058-5-ND	Dual PCMCIA Power I/F Switch	30-SSOP	6.38	5.23	4.72
TPS2206IDAPR	296-3457-1-ND	Dual PCMCIA Power Switch	32-TSSOP	7.82	6.49	5.90
TPS2206IDAPR	296-3457-2-ND	Dual PCMCIA Power Switch	32-TSSOP	7670.00/2,000		
TPS2206IDB	296-2246-5-ND	Dual PCMCIA Power Switch	30-SSOP	8.90	7.30	6.59
TPS2206IDFR	296-13510-1-ND	Dual PCMCIA Power Switch	30-SSOP	7.82	6.49	5.90
TPS2206IDFR	296-13510-2-ND	Dual PCMCIA Power Switch	30-SSOP	3982.50/1,000		
TPS2210APWP	296-15135-5-ND	PCMCIA Power Interface Switch	24-HTSSOP	2.80	2.25	2.05
TPS2211AIDB	296-3460-5-ND	PCMCIA Power Interface Switch	16-SSOP	2.67	2.15	1.94
TPS2211AIDBR	296-13827-1-ND	PCMCIA Power Interface Switch	16-SSOP	2.49	1.92	1.74
TPS2211AIDBR	296-13827-2-ND	PCMCIA Power Interface Switch	16-SSOP	1918.00/2,000		
TPS2211APW	296-18279-5-ND	PCMCIA Power Interface Switch	20-TSSOP	2.67	2.15	1.94
TPS2211APWP	296-13872-5-ND	PCMCIA Power Interface Switch	20-HTSSOP	2.67	2.15	1.94
TPS2211IDBR	296-3461-2-ND	PCMCIA Power Interface Switch	16-SSOP	3670.00/2,000		
TPS2212IDB	296-2247-5-ND	Single PCMCIA Power Switch	16-SSOP	4.76	3.83	3.49
TPS2214ADB	296-2248-5-ND	Dual PCMCIA Power Switch	24-SSOP	8.08	6.63	5.98
TPS2214DB	296-2249-5-ND	Dual PCMCIA Power Switch	24-SSOP	7.00	5.74	5.18
TPS2216ADAP	296-2250-5-ND	Dual PCMCIA Power Switch	32-HTSSOP	8.20	6.73	6.07
TPS2216ADB	296-2251-5-ND	Dual PCMCIA Power Switch	30-SSOP	8.20	6.73	6.07
TPS2216DB	296-2252-5-ND	Dual PCMCIA Power Switch	30-SSOP	9.50	7.79	7.03
TPS2216DAP	296-3462-5-ND	PCMCIA Power Switch Serial Interface	32-HTSSOP	9.50	7.79	7.03
TPS2220ADB	296-18938-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	2.80	2.25	2.05
TPS2220BDB	296-17773-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	3.01	2.43	2.19
TPS2220BPWP	296-17774-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	3.01	2.43	2.19
TPS2220APWP	296-15136-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	2.80	2.25	2.05
TPS2221PWP	296-13747-5-ND	Single PC Card Power Interface Switch for PCMCIA Controllers	14-HTSSOP	6.16	4.95	4.51
TPS2223ADB	296-13015-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	5.71	4.59	4.19
TPS2223APWP	296-13016-5-ND	Dual-Slot CardBus Interface Switches	24-HTSSOP	5.71	4.59	4.19
TPS2223DB	296-12387-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	6.24	5.02	4.58
TPS2223PWP	296-12388-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	6.24	5.02	4.58
TPS2224ADB	296-13017-5-ND	Dual-Slot CardBus Interface Switch	24-SSOP	6.24	5.02	4.58
TPS2224APWP	296-13018-5-ND	Dual-Slot CardBus Interface Switch	24-HTSSOP	6.24	5.02	4.58
TPS2224DB	296-12389-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	6.92	5.56	5.07
TPS2224PWP	296-12390-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	6.92	5.56	5.07
TPS2226ADB	296-13019-5-ND	Dual-Slot CardBus Interface Switch	30-SSOP	6.78	5.45	4.97
TPS2226DB	296-12391-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	30-SSOP	6.65	5.46	4.93
TPS2228DB	296-13748-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	30-SSOP	9.63	7.90	7.13
TPS2228PWP	296-13749-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	20-HTSSOP	9.38	7.69	6.94
TPS2231EVM	296-17281-ND	Evaluation Module for TPS2231	—	50.00	—	—
TPS2231MRGPR	296-21266-1-ND	ExpressCard™ Power Interface Switch	20-VQFN	3.22	2.49	2.26
TPS2231MRGPR	296-21266-2-ND	ExpressCard™ Power Interface Switch	20-VQFN	3726.00/3,000		
TPS2231MRGPT	296-25293-1-ND	ExpressCard™ Power Interface Switch* ***NEW!***	20-QFN	3.27	2.68	2.40
TPS2231MRGPT	296-25293-2-ND	ExpressCard™ Power Interface Switch* ***NEW!***	20-QFN	504.25/250		
TPS2231MRGPT-3	296-25341-1-ND	ExpressCard™ Power Interface Switch* ***NEW!***	20-QFN	4.05	3.31	2.97
TPS2231MRGPT-3	296-25341-2-ND	ExpressCard™ Power Interface Switch* ***NEW!***	20-QFN	624.50/250		
TPS2231PW	296-20688-5-ND	ExpressCard™ Power Interface Switch	20-TSSOP	3.16	2.55	2.32
TPS2231PWP	296-17239-ND	ExpressCard™ Power Interface Switch	24-HTSSOP	3.42	2.75	2.51
TPS2231RGPT	296-18035-1-ND	ExpressCard™ Power Interface Switch	20-VQFN	3.27	2.68	2.40
TPS2231RGPT	296-18035-2-ND	ExpressCard™ Power Interface Switch	20-VQFN	504.25/250		
TPS2236DAP	296-17591-5-ND	Dual ExpressCard™ Power Interface Switch	24-HTSSOP	4.54	3.65	3.33

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2350EVM	296-18940-ND	Evaluation Module for TPS2350	—	50.00	—	—
TPS2383BPM	296-18303-ND	Octal Power Sourcing Equipment Power Manager	64-LQFP	19.45	16.36	15.03
TPS2400DBVR	296-17744-1-ND	Overvoltage Protection Controller	SOT-23-5	2.80	2.16	1.96
TPS2400DBVR	296-17744-2-ND	Overvoltage Protection Controller	SOT-23-5	3240.00/3,000		
TPS2400DBVT	296-17226-1-ND	Overvoltage Protection Controller	SOT-23-5	3.15	2.43	2.21
TPS2400DBVT	296-17226-2-ND	Overvoltage Protection Controller	SOT-23-5	450.00/250		
TPS2500DRCR	296-25150-1-ND	USB Power Switch/Boost Converter* ***NEW!***	10-SON	3.60	2.94	2.64
TPS2500DRCR	296-25150-2-ND	USB Power Switch/Boost Converter* ***NEW!***	10-SON	4788.00/3,000		
TPS2501DRCR	296-25151-1-ND	USB Power Switch/Boost Converter* ***NEW!***	10-SON	3.60	2.94	2.64
TPS2501DRCR	296-25151-2-ND	USB Power Switch/Boost Converter* ***NEW!***	10-SON	4788.00/3,000		
TPS2505B1RGWR	296-25805-1-ND	USB Power Switch/Boost Converter* ***NEW!***	20-QFN	3.90	3.19	2.86
TPS2505B1RGWR	296-25805-2-ND	USB Power Switch/Boost Converter* ***NEW!***	20-QFN	5187.00/3,000		
TPS2550DBVT	296-23131-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	3.30	2.70	2.42
TPS2550DBVT	296-23131-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	508.75/250		
TPS2550DRVT	296-23132-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.30	2.70	2.42
TPS2550DRVT	296-23132-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	508.75/250		
TPS2551DBVR	296-26926-1-ND	Adj. Current-Limited Pwr. Dist. Switch* ***NEW!***	SOT-23-6	3.33	2.57	2.33
TPS2551DBVR	296-26926-2-ND	Adj. Current-Limited Pwr. Dist. Switch* ***NEW!***	SOT-23-6	3849.00/3,000		
TPS2551DBVT	296-23133-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	3.30	2.70	2.42
TPS2551DBVT	296-23133-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	508.75/250		
TPS2551DRVT	296-23134-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.30	2.70	2.42
TPS2551DRVT	296-23134-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	508.75/250		
TPS2551QDBVRQ1	296-23692-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	3.45	2.82	2.53
TPS2551QDBVRQ1	296-23692-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT-23-6	4590.00/3,000		
TPS2552DBVT	296-23988-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	3.15	2.43	2.21
TPS2552DBVT	296-23988-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	450.00/250		
TPS2552DBVT-1	296-23989-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	3.15	2.43	2.21
TPS2552DBVT-1	296-23989-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	450.00/250		
TPS2552DRVT	296-23997-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.15	2.43	2.21
TPS2552DRVT	296-23997-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	450.00/250		
TPS2552DRVT-1	296-23998-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.15	2.43	2.21
TPS2552DRVT-1	296-23998-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	450.00/250		
TPS2553DBVT	296-23990-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	3.15	2.43	2.21
TPS2553DBVT	296-23990-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	450.00/250		
TPS2553DBVT-1	296-23991-1-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	3.15	2.43	2.21
TPS2553DBVT-1	296-23991-2-ND	Adj. Current-Limited Pwr. Dist. Switch	SOT23-6	450.00/250		
TPS2553DRVT	296-23999-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.15	2.43	2.21
TPS2553DRVT	296-23999-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	450.00/250		
TPS2553DRVT-1	296-24000-1-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	3.15	2.43	2.21
TPS2553DRVT-1	296-24000-2-ND	Adj. Current-Limited Pwr. Dist. Switch	6-SON	450.00/250		
TPS2556DRBT	296-25431-1-ND	Adj. Power Dist. Switch* ***NEW!***	8-SON	3.15	2.58	2.31
TPS2556DRBT	296-25431-2-ND	Adj. Power Dist. Switch* ***NEW!***	8-SON	485.75/250		
TPS2557DRBT	296-25432-1-ND	Adj. Power Dist. Switch* ***NEW!***	8-SON	3.15	2.58	2.31
TPS2557DRBT	296-25432-2-ND	Adj. Power Dist. Switch* ***NEW!***	8-SON	485.75/250		
TPS2560DRCT	296-25547-1-ND	Adj. Power Dist. Switch* ***NEW!***	10-SON	3.15	2.58	2.31
TPS2560DRCT	296-25547-2-ND	Adj. Power Dist. Switch* ***NEW!***	10-SON	485.75/250		
TPS2561DRCT	296-25548-1-ND	Adj. Power Dist. Switch* ***NEW!***	10-SON	3.15	2.58	2.31
TPS2561DRCT	296-25548-2-ND	Adj. Power Dist. Switch* ***NEW!***	10-SON	485.75/250		
TPS22901YFPR	296-24771-1-ND	Low Input Volt. Load Switch* ***NEW!***	4-DSBGA	1.22	.96	.87
TPS22901YFPR	296-24771-2-ND	Low Input Volt. Load Switch* ***NEW!***	4-DSBGA	1344.00/3,000		
TPS22902BYFPR	296-24688-1-ND	Low Input Volt. Load Switch* ***NEW!***	4-DSBGA	1.22	.96	.87
TPS22902BYFPR	296-24688-2-ND	Low Input Volt. Load Switch* ***NEW!***	4-DSBGA	1344.00/3,000		
TPS22903YFPR	296-24219-1-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	1.22	.96	.87
TPS22903YFPR	296-24219-2-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	1344.00/3,000		
TPS22906YZVR	296-24265-1-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	1.22	.96	.87
TPS22906YZVR	296-24265-2-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	1344.00/3,000		
TPS22907YZTT	296-25572-1-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	1.93	1.49	1.35
TPS22907YZTT	296-25572-2-ND	Low-Input Volt. Load Switch* ***NEW!***	4-DSBGA	275.00/250		
TPS22921YFPR	296-24675-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1.63	1.29	1.17
TPS22921YFPR	296-24675-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1806.00/3,000		
TPS22922BEVM	296-24302-ND	Eval. Module for TPS22922B ***NEW!***	—	29.60	—	—
TPS22922BYFPR	296-24676-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1.63	1.29	1.17
TPS22922BYFPR	296-24676-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1806.00/3,000		
TPS22922BYZPR	296-24097-1-ND	Low Input Voltage Load Switch	6-DSBGA	1.63	1.29	1.17
TPS22922BYZPR	296-24097-2-ND	Low Input Voltage Load Switch	6-DSBGA	1806.00/3,000		
TPS22922YFPR	296-24677-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1.63	1.29	1.17
TPS22922YFPR	296-24677-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1806.00/3,000		
TPS22924CYZPT	296-25591-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	2.45	1.89	1.72
TPS22924CYZPT	296-25591-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	350.00/250		
TPS22932BYFPR	296-25354-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1.93	1.49	1.35
TPS22932BYFPR	296-25354-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	2227.50/3,000		
TPS22932BYFPT	296-25448-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	2.45	1.89	1.72
TPS22932BYFPT	296-25448-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	350.00/250		
TPS22924CYZPR	296-25510-1-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	1.93	1.49	1.35
TPS22924CYZPR	296-25510-2-ND	Low Input Volt. Load Switch* ***NEW!***	6-DSBGA	2229.00/3,000		
TPS22941DCKR	296-25217-1-ND	Current-Limited Load Switch* ***NEW!***	SC70-5	1.37	1.08	.98
TPS22941DCKR	296-25217-2-ND	Current-Limited Load Switch* ***NEW!***	SC70-5	1512.00/3,000		
TPS22942DCKR	296-24772-1-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1.37	1.08	.98
TPS22942DCKR	296-24772-2-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1512.00/3,000		
TPS22943DCKR	296-25316-1-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1.37	1.08	.98
TPS22943DCKR	296-25316-2-ND	Low Input Volt. Load Switch* ***NEW!***	SC70-5	1512.00/3,000		
TPS22944DCKR	296-25218-1-ND	Current-Limited Load Switch* ***NEW!***	SC70-5	1.37	1.08	.98
TPS22944DCKR	296-25218-2-ND	Current-Limited Load Switch* ***NEW!***	SC70-5	1512.00/3,000		
TPS22946YZPR	296-25219-1-ND	Current-Limited Load Switch* ***NEW!***	6-DSBGA	1.93	1.49	1.35
TPS22946YZPR	296-25219-2-ND	Current-Limited Load Switch* ***NEW!***	6-DSBGA	2227.50/3,000		
TPS22949ADRGR	296-25317-1-ND	Current-Limited Load Switch* ***NEW!***	8-SON	2.45	1.89	1.72
TPS22949ADRGR	296-25317-2-ND	Current-Limited Load Switch* ***NEW!***	8-SON	2835.00/3,000		
TPS22949AYZPR	296-24927-1-ND	Low Noise Current-Limited Load Switch* ***NEW!***	8-DSBGA	2.45	1.89	1.72
TPS22949AYZPR	296-24927-2-ND	Low Noise Current-Limited Load Switch* ***NEW!***	8-DSBGA	2835.00/3,000		
TPS22949YZPR	296-24209-1-ND	Low Noise Current-Limited Load Switch* ***NEW!***	8-DSBGA	2.45	1.89	1.72
TPS22949YZPR	296-24209-2-ND	Low Noise Current-Limited Load Switch* ***NEW!***	8-DSBGA	2835.00/3,000		
TPS22951YFPR	296-24773-1-ND	Current Limited Load Switch* ***NEW!***	6-DSBGA	.95	.75	.68
TPS22951YFPR	296-24773-2-ND	Current Limited Load Switch* ***NEW!***	6-DSBGA	1050.00/3,000		
TPS22960DCNR	296-24545-1-ND	Low Input Voltage, Low Noise Dual Load Switch* ***NEW!***	SOT23-8	1.44	1.14	1.03
TPS22960DCNR	296-24545-2-ND	Low Input Voltage, Low Noise Dual Load Switch* ***NEW!***	SOT23-8	1596.00/3,000		
TPS54974PWP	296-15140-5-ND	Dual Input Bus 9A Output Sync. Buck PWM Switcher with Integrated FETs	28-HTSSOP	12.10	10.18	9.35
UC37131D	296-11248-5-ND	Low Side Smart Power Switch	8-SOIC	6.50	5.33	4.81
UC37132D	296-11249-5-ND	High/Low Side Smart Power Switch	16-SOIC	7.13	5.85	5.28
UC37132N	296-11250-5-ND	High/Low Side Smart Power Switch	14-Dip	7.13	5.85	5.28
UC37133D	296-11251-5-ND	High Side Smart Power Switch	8-SOIC	6.38	5.23	4.72
UC37133N	296-11252-5-ND	High Side Smart Power Switch	8-Dip	6.38	5.23	4.72
PWM Controllers						
DRV101FKTWT	296-15963-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	11.66	9.68	—
DRV101FKTWT	296-15963-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	451.00/50		
DRV101T	DRV101T-ND	PWM Solenoid/Valve Driver	TO-220-7	11.50	9.43	8.51
DRV102FKTWT	296-15964-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	11.66	9.68	—
DRV102FKTWT	296-15964-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	451.00/50		
DRV102T	DRV102T-ND	PWM Solenoid/Valve Driver	TO-220-7	11.50	9.43	8.51
DRV103H	DRV103H-ND	Low Side DMOS Pwr Switch PWM Out	8-HSOIC	6.16	4.95	4.51
DRV103H/2K5	DRV103H/2K5CT-ND	Low Side DMOS Pwr Switch PWM Out	8-HSOIC	5.70	4.66	4.18
DRV103H/2K5	DRV103H/2K5TR-ND	Low Side DMOS Pwr Switch PWM Out	8-HSOIC	6317.50/2,500		
DRV103U	296-11622-ND	PWM Low Side Driver	8-SOIC	5.46	4.39	4.00
DRV104PWP	296-26053-5-ND	1.2A High Side PWM Driver* ***NEW!***	14-HTSSOP	6.72	5.40	4.92
DRV104PWPR	296-15746-1-ND	1.2A High Side PWM Driver	14-HTSSOP	6.00	4.90	4.40
DRV104PWPR	296-15746-2-ND	1.2A High Side PWM Driver	14-HTSSOP	5320.00/2,000		
DRV401AIDWPR	296-21226-1-ND	Sensor Signal Conditioning IC	20-SO	5.70	4.66	4.18
DRV401AIDWPR	296-21226-2-ND	Sensor Signal Conditioning IC	20-SO	2660.00/1,000		
DRV401AMDWPREP	296-23584-1-ND	Sensor Signal Conditioning IC	20-SO	16.68	14.14	13.05
DRV401AMDWPREP	296-23584-2-ND	Sensor Signal Conditioning IC	20-SO	9642.50/1,000		
DRV590DWP	296-12201-5-ND	1.2A High Efficiency PWM Power Dvr.	20-SOIC	30.00	25.50	23.63
DRV590GQCR	296-18430-1-ND	1.2A High Efficiency PWM Power Dvr.	48-BGA	30.60	27.54	25.25
DRV590GQCR	296-18430-2-ND	1.2A High Efficiency PWM Power Dvr.	48-BGA	48195.00/2,500		
DRV590ZQCR	296-21227-1-ND	1.2A High Efficiency PWM Power Dvr.	48-BGA	30.00	27.00	24.75
DRV590ZQCR	296-21227-2-ND	1.2A High Efficiency PWM Power Dvr.	48-BGA	47250.00/2,500		
DRV591EVM	296-13550-ND	Evaluation Module for DRV591	—	101.00	—	—
DRV591VFP	296-12430-ND	High Efficiency PWM Power Driver	32-HLQFP	25.00	21.25	19.69
DRV592VFP	296-12550-ND	High Efficiency PWM Power Driver	32-HLQFP	6.30	5.07	4.62
DRV593EVM	296-19948-ND	Evaluation Module for DRV593	—	101.00	—	—
DRV593VFPR	296-13643-1-ND	±3A High Efficiency PWM Power Dvr.	32-HLQFP	21.60	19.44	17.82
DRV593VFPR	296-13643-2-ND	±3A High Efficiency PWM Power Dvr.	32-HLQFP	14040.00/1,000		
DRV594EVM	296-19949-ND	Evaluation Module for DRV594	—	101.00	—	—
DRV594VFPR	296-13644-1-ND	±3A High Efficiency PWM Power Dvr.	32-HLQFP	27.00	24.30	22.28
DRV594VFPR	296-13644-2-ND	±3A High Efficiency PWM Power Dvr.	32-HLQFP	17550.00/1,000		
SG2524D	296-26328-5-ND	Regulating PWM* ***NEW!***	16-SOIC	1.18	.95	.83
SG2524DR	296-12552-1-ND	PWM Controller with Shutdown	16-SOIC	1.06	.84	.76
SG2524DR	296-12552-2-ND	PWM Controller with Shutdown	16-SOIC	980.00/2,500		
SG2524N	296-9685-5-ND	PWM Controller with Shutdown	16-Dip	1.08	.87	.76
SG3524D	296-9686-5-ND	Regulating PWM	16-SOIC	1.18	.95	.83
SG3524N	296-9687-5-ND	Regulating PWM	16-Dip	1.08	.87	.76
SN74TVC3010DBQR	296-9891-1-ND	10-Bit Programmable Voltage Clamp	24-QSOP	2.45	1.89	1.72
SN74TVC3010DBQR	296-9891-2-ND	10-Bit Programmable Voltage Clamp	24-QSOP	2362.50/2,500		
SN74TVC3010DGVR	296-9892-1-ND	10-Bit Programmable Voltage Clamp	24-TVSOP	2.28	1.76	1.60
SN74TVC3010DGVR	296-9892-2-ND	10-Bit Programmable Voltage Clamp	24-TVSOP	1756.00/2,000		
SN74TVC3010PWR	296-9893-1-ND	10-Bit Programmable Voltage Clamp	24-TSSOP	2.28	1.76	1.60
SN74TVC3010PWR	296-9893-2-ND	10-Bit Programmable Voltage Clamp	24-TSSOP	1756.00/2,000		
SN74TVC3306DCTR	296-13307-1-ND	Dual Voltage Clamp	SM8	2.28	1.76	1.60
SN74TVC3306DCTR	296-13307-2-ND	Dual Voltage Clamp	SM8	2634.00/3,000		
SN74TVC3306DCUR	296-13308-1-ND	Dual Voltage Clamp	US8	1.93	1.49	1.35
SN74TVC3306DCUR	296-13308-2-ND	Dual Voltage Clamp	US8	2227.50/3,000		
SN74TVC16222ADGGR	296-9888-1-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2.91	2.25	2.04
SN74TVC16222ADGGR	296-9888-2-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2241.00/2,000		
SN74TVC16222ADGVR	296-9889-1-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2.91	2.25	2.04
SN74TVC16222ADGVR	296-9889-2-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2241.00/2,000		
SN74TVC16222ADLR	296-9890-1-ND	22-Bit Programmable Voltage Clamp	48-SSOP	2.91	2.25	2.04
SN74TVC16222ADLR	296-9890-2-ND	22-Bit Programmable Voltage Clamp	48-SSOP	1203.50/1,000		
TL494CD	296-1293-5-ND	PWM Controller	16-SOIC	.67	.53	.46
TL494CDR	296-1293-1-ND	PWM Controller	16-SOIC	.77	.54	.47
TL494CDR	296-1293-2-ND	PWM Controller	16-SOIC	542.50/2,500		
TL494CN	296-1799-5-ND	PWM Controller	16-Dip	.73	.57	.50
TL494CNSR	296-10191-1-ND	PWM Controller	16-SOP	.68	.53	.47
TL494CNSR	296-10191-2-ND	PWM Controller	16-SOP	446.00/2,000		
TL494CPW	296-26722-5-ND	PWM Control Circuit* ***NEW!***	16-TSSOP	.67	.53	.46
TL494CPWR	296-10192-1-ND	PWM Controller	16-TSSOP	.77	.54	.47
TL494CPWR	296-10192-2-ND	PWM Controller	16-TSSOP	434.00/2,000		
TL494ID	296-10193-5-ND	PWM Control Circuit	16-SOIC	.67	.53	.46
TL494IDR	296-24387-1-ND	PWM Control Circuit* ***NEW!***	16-SOIC	.77	.54	.47
TL494IDR	296-24387-2-ND	PWM Control Circuit* ***NEW!***	16-SOIC	542.50/2,500		
TL494IN	296-10194-5-ND	PWM Controller	16-Dip	.73	.57	.50
TL499ACPSR	296-17592-1-ND	Wide Range Power Supply Controller	8-SOP	2.45	1.89	1.72
TL499ACPSR	296-17592-2-ND	Wide Range Power Supply Controller	8-SOP	1890.00/2,000		
TL594CD	296-10220-5-ND	PWM Control Circuit	16-SOIC	.97	.78	.68
TL594CDR	296-15012-1-ND	PWM Control Circuit	16-SOIC	1.01	.79	.69
TL594CDR	296-15012-2-ND	PWM Control Circuit	16-SOIC	835.00/2,500		
TL594CN	296-10221-5-ND	PWM Control Circuit	16-Dip	.89	.71	.62
TL594CPWR	296-18890-1-ND	PWM Control Circuit	16-TSSOP	1.01	.79	.69
TL594CPWR	296-18890-2-ND	PWM Control Circuit	16-TSSOP	668.00/2,000		
TL594ID	296-10222-5-ND	PWM Control Circuit	16-SOIC	.97	.78	.68
TL594IN	296-10223-5-ND	PWM Control Circuit	16-Dip	.89	.71	.62
TL594INSR	296-13355-1-ND	PWM Control Circuit	16-SOP	.96	.76	.69
TL594INSR	296-13355-2-ND	PWM Control Circuit	16-SOP	708.00/2,000		
TL594IPWR	296-10224-1-ND	PWM Control Circuit	16-TSSOP	1.01	.79	.69
TL594IPWR	296-10224-2-ND	PWM Control Circuit	16-TSSOP	668.00/2,000		
TL598CD	296-10225-5-ND	PWM Controller	16-SOIC	1.86	1.50	1.35
TL598CN	296-10226-5-ND	PWM Controller	16-Dip	1.71	1.38	1.24
TL1451ACD	296-13350-5-ND	Dual Channel PWM Controller	16-SOIC	1.71	1.38	1.24
TL1451ACDBR	296-10133-1-ND	Dual Channel PWM Controller	16-SSOP	1.76	1.39	1.25
TL1451ACDBR	296-10133-2-ND	Dual Channel PWM Controller	16-SSOP	1294.00/2,000		
TL1451ACN	296-12197-5-ND	Dual Channel PWM Controller	16-Dip	1.71	1.38	1.24

** RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL1451ACNSR	296-10134-1-ND	Dual Channel PWM Controller	16-SOP	1.76	1.39	1.25
TL1451ACNSR	296-10134-2-ND	Dual Channel PWM Controller	16-SOP	1294.00/2,000		
TL1451ACPWR	296-10135-1-ND	Dual Channel PWM Controller	16-TSSOP	1.76	1.39	1.25
TL1451ACPWR	296-10135-2-ND	Dual Channel PWM Controller	16-TSSOP	1294.00/2,000		
TL1451AMDREP	296-19511-1-ND	Dual Channel PWM Controller	16-SOIC	7.26	5.93	5.33
TL1451AMDREP	296-19511-2-ND	Dual Channel PWM Controller	16-SOIC	8046.50/2,500		
TL1451AQD	296-10137-5-ND	Dual Channel PWM Controller	16-SOIC	1.55	1.25	1.13
TL1451AQDREP	296-22405-1-ND	Dual Channel PWM Controller	16-SOIC	3.00	2.45	2.20
TL1451AQDREP	296-22405-2-ND	Dual Channel PWM Controller	16-SOIC	3325.00/2,500		
TL1451AQPWRG4Q1	296-24757-1-ND	Dual Channel PWM Control Circuit* ***NEW!***	16-TSSOP	3.27	2.68	2.40
TL1451AQPWRG4Q1	296-24757-2-ND	Dual Channel PWM Control Circuit* ***NEW!***	16-TSSOP	2900.00/2,000		
TL1451AQPWRQ1	296-18659-1-ND	Dual Channel PWM Controller	16-TSSOP	3.27	2.68	2.40
TL1451AQPWRQ1	296-18659-2-ND	Dual Channel PWM Controller	16-TSSOP	2900.00/2,000		
TL1453CD	296-10138-5-ND	Dual Channel PWM Controller	16-SOIC	3.05	2.46	2.24
TL1453CN	296-10139-5-ND	Dual Channel PWM Controller	16-Dip	3.05	2.46	2.24
TL1454ACD	296-13792-5-ND	Dual Channel PWM Control Circuit	16-SOIC	3.53	2.84	2.59
TL1454ACDBR	296-13793-1-ND	Dual Channel PWM Control Circuit	16-SSOP	3.15	2.58	2.31
TL1454ACDBR	296-13793-2-ND	Dual Channel PWM Control Circuit	16-SSOP	2794.00/2,000		
TL1454ACN	296-13794-5-ND	Dual Channel PWM Control Circuit	16-Dip	3.53	2.84	2.59
TL1454ACNSR	296-13795-1-ND	Dual Channel PWM Control Circuit	16-SOP	3.15	2.58	2.31
TL1454ACNSR	296-13795-2-ND	Dual Channel PWM Control Circuit	16-SOP	2794.00/2,000		
TL1454ACPWR	296-13796-1-ND	Dual Channel PWM Control Circuit	16-TSSOP	3.15	2.58	2.31
TL1454ACPWR	296-13796-2-ND	Dual Channel PWM Control Circuit	16-TSSOP	2794.00/2,000		
TL2842BDR	296-21844-1-ND	Current-Mode PWM Controller	14-SOIC	1.25	.99	.90
TL2842BDR	296-21844-2-ND	Current-Mode PWM Controller	14-SOIC	1155.00/2,500		
TL2842BDR-8	296-21845-1-ND	Current-Mode PWM Controller	8-SOIC	1.25	.99	.90
TL2842BDR-8	296-21845-2-ND	Current-Mode PWM Controller	8-SOIC	1155.00/2,500		
TL2842DR-8	296-12998-1-ND	Current-Mode PWM Controller	8-SOIC	.97	.75	.66
TL2842DR-8	296-12998-2-ND	Current-Mode PWM Controller	8-SOIC	797.50/2,500		
TL2842P	296-16646-5-ND	Current-Mode PWM Controller	8-Dip	1.00	.81	.71
TL2843BDR	296-21846-1-ND	Current-Mode PWM Controller	14-SOIC	1.25	.99	.90
TL2843BDR	296-21846-2-ND	Current-Mode PWM Controller	14-SOIC	1155.00/2,500		
TL2843BDR-8	296-21847-1-ND	Current-Mode PWM Controller	8-SOIC	1.25	.99	.90
TL2843BDR-8	296-21847-2-ND	Current-Mode PWM Controller	8-SOIC	1155.00/2,500		
TL2843D	296-1977-5-ND	Current-Mode PWM Controller	14-SOIC	1.00	.81	.71
TL2843DR	296-17541-1-ND	Current-Mode PWM Controller	14-SOIC	1.06	.83	.73
TL2843DR	296-17541-2-ND	Current-Mode PWM Controller	14-SOIC	877.50/2,500		
TL2843DR-8	296-10164-1-ND	Current-Mode PWM Controller	8-SOIC	1.06	.83	.73
TL2843DR-8	296-10164-2-ND	Current-Mode PWM Controller	8-SOIC	877.50/2,500		
TL2844BDR-8	296-21849-1-ND	Current-Mode PWM Controller	8-SOIC	1.25	.99	.90
TL2844BDR-8	296-21849-2-ND	Current-Mode PWM Controller	8-SOIC	1155.00/2,500		
TL2844DR	296-1367-1-ND	Current-Mode PWM Controller	14-SOIC	1.00	.80	.72
TL2844DR-8	296-10165-1-ND	Current-Mode PWM Controller	8-SOIC	1.00	.80	.72
TL2844DR-8	296-10165-2-ND	Current-Mode PWM Controller	8-SOIC	925.00/2,500		
TL2844P	296-16647-5-ND	Current-Mode PWM Controller	8-Dip	1.18	.95	.83
TL2845BDR-8	296-21851-1-ND	Current-Mode PWM Controller	8-SOIC	1.25	.99	.90
TL2845BDR-8	296-21851-2-ND	Current-Mode PWM Controller	8-SOIC	1155.00/2,500		
TL2845DR-8	296-10166-1-ND	Current-Mode PWM Controller	8-SOIC	1.00	.80	.72
TL2845DR-8	296-10166-2-ND	Current-Mode PWM Controller	8-SOIC	925.00/2,500		
TL3842BD	296-23296-5-ND	Current-Mode PWM Controller	14-SOIC	1.26	1.01	.89
TL3842DR-8	296-10173-1-ND	Current-Mode PWM Controller	8-SOIC	.97	.75	.66
TL3842DR-8	296-10173-2-ND	Current-Mode PWM Controller	8-SOIC	797.50/2,500		
TL3842P	296-10174-5-ND	Current-Mode PWM Controller	8-Dip	.92	.74	.65
TL3843BD	296-23676-5-ND	Current-Mode PWM Controller	14-SOIC	1.26	1.01	.89
TL3843D-8	296-26709-5-ND	Current-Mode PWM Contrlr.* ***NEW!***	8-SOIC	.92	.74	.65
TL3843DR	296-15010-1-ND	Current-Mode PWM Controller	14-SOIC	.97	.75	.66
TL3843DR	296-15010-2-ND	Current-Mode PWM Controller	14-SOIC	797.50/2,500		
TL3843DR-8	296-10175-1-ND	Current-Mode PWM Controller	8-SOIC	.97	.75	.66
TL3843DR-8	296-10175-2-ND	Current-Mode PWM Controller	8-SOIC	797.50/2,500		
TL3843P	296-10176-5-ND	Current-Mode PWM Controller	8-Dip	1.00	.81	.71
TL3844DR-8	296-10177-1-ND	Current-Mode PWM Controller	8-SOIC	1.06	.82	.72
TL3844DR-8	296-10177-2-ND	Current-Mode PWM Controller	8-SOIC	870.00/2,500		
TL3844P	296-10178-5-ND	Current-Mode PWM Controller	8-Dip	1.09	.88	.77
TL3845DR	296-15011-1-ND	Current-Mode PWM Controller	14-SOIC	1.06	.82	.72
TL3845DR	296-15011-2-ND	Current-Mode PWM Controller	14-SOIC	870.00/2,500		
TL3845DR-8	296-10179-1-ND	Current-Mode PWM Controller	8-SOIC	1.06	.82	.72
TL3845DR-8	296-10179-2-ND	Current-Mode PWM Controller	8-SOIC	870.00/2,500		
TL3845P	296-10180-5-ND	Current-Mode PWM Controller	8-Dip	1.09	.88	.77
TL5001ACD	296-2472-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.95	1.58	1.42
TL5001ACDR	296-2472-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.75	1.35	1.23
TL5001ACDR	296-2472-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1687.50/2,500		
TL5001AIP	296-10203-5-ND	PWM Cont. w/Wide Input Volt. Range	8-Dip	1.95	1.58	1.42
TL5001AQDRG4Q1	296-22068-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	2.07	1.60	1.45
TL5001AQDRG4Q1	296-22068-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1992.50/2,500		
TL5001AQDRQ1	296-20655-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	2.07	1.60	1.45
TL5001AQDRQ1	296-20655-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1992.50/2,500		
TL5001CDR	296-1294-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.63	1.29	1.16
TL5001CDR	296-1294-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1497.50/2,500		
TL5001CP	296-10205-5-ND	PWM Cont. w/Wide Input Volt. Range	8-Dip	1.61	1.30	1.17
TL5001CPSR	296-10206-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOP	1.63	1.29	1.16
TL5001CPSR	296-10206-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOP	1198.40/2,000		
TL5001EVM-097	296-10210-ND	Evaluation Module for TL5001	—	50.00	—	—
TL5001ID	296-10214-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.61	1.30	1.17
TL5001QD	296-10215-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.61	1.30	1.17
TL5001QDG4	296-22045-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.61	1.30	1.17
TL5002CDR	296-10216-1-ND	PWM Controller	8-SOP	2.35	1.81	1.65
TL5002CDR	296-10216-2-ND	PWM Controller	8-SOP	2261.25/2,500		
TL5002EVM-182	296-13561-ND	Evaluation Module for TL5002	—	99.78	—	—
TLC2932AIPW	296-19331-5-ND	High Performance PLL	14-TSOP	4.20	3.38	3.08
TLC2932IPWR	296-10262-1-ND	High Performance PLL	14-TSSOP	3.84	3.14	2.82
TLC2932IPWR	296-10262-2-ND	High Performance PLL	14-TSSOP	3404.00/2,000		
TLC2933AIPW	296-19332-5-ND	High Performance PLL	14-TSSOP	4.20	3.38	3.08
TLC2933IPW	296-11907-5-ND	High Performance PLL	14-TSSOP	3.58	2.88	2.63
TLC2933IPWR	296-11907-1-ND	High Performance PLL	14-TSSOP	3.84	3.14	2.82
TLC2933IPWR	296-11907-2-ND	High Performance PLL	14-TSSOP	3404.80/2,000		
TLC2934IPWR	296-10263-1-ND	High Performance Single PLL	14-TSSOP	3.69	3.02	2.71
TLC2934IPWR	296-10263-2-ND	High Performance Single PLL	14-TSSOP	3272.00/2,000		
TMP821DR	296-24768-1-ND	2-Phase, Half Wave Motor Pre-Driver* ***NEW!***	8-SOIC	.66	.51	.45
TMP821DR	296-24768-2-ND	2-Phase, Half Wave Motor Pre-Driver* ***NEW!***	8-SOIC	543.75/2,500		
TPS5100IPW	296-2474-5-ND	3-Channel PWM Controller	16-TSSOP	4.76	3.83	3.49
TPS43000EVM-001	296-20594-ND	Evaluation Module for TPS43000	—	50.00	—	—
TPS43000PW	296-12403-5-ND	Hi-Freq. Sync. PWM Controller	16-TSSOP	6.13	4.93	4.49
TPS54354MPWPREP	296-22456-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10.34	8.58	7.80
TPS54354MPWPREP	296-22456-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10140.00/2,000		
TPS54356MPWPREP	296-22457-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10.34	8.58	7.80
TPS54356MPWPREP	296-22457-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	10140.00/2,000		
TPS54372EVM-215	296-20595-ND	Evaluation Module for TPS54372	—	10.20	—	—
TPS54372PWP	296-13055-5-ND	3A Output Sync. PWM Switcher	20-HTSSOP	6.75	5.54	5.00
TPS54550MPWPREP	296-22458-1-ND	4.5V to 20V Input, 6A Output Sync. PWM Switcher	16-HTSSOP	3.00	2.45	2.20
TPS54550MPWPREP	296-22458-2-ND	4.5V to 20V Input, 6A Output Sync. PWM Switcher	16-HTSSOP	2660.00/2,000		
TPS54616PWPR	296-12288-1-ND	Sync.-Buck PWM Converter	28-HTSSOP	8.48	7.04	6.40
TPS54616PWPR	296-12288-2-ND	Sync.-Buck PWM Converter	28-HTSSOP	8320.00/2,000		
TPS54910EVM-213	296-20604-ND	Evaluation Module for TPS54910	—	10.20	—	—
TPS54910PWP	296-13409-5-ND	3V-4V In, 9A Out, Sync. PWM Switcher w/Integrated FETs (SWIFT)	28-HTSSOP	11.00	9.02	8.14
TPS56100PWP	296-2475-5-ND	DSP Power Supply Controller	28-HTSSOP	11.13	9.13	8.24
TPS56300PWP	296-2476-5-ND	DSP Supply Controller	28-HTSSOP	11.44	9.62	8.84
TPS56302EVM-163	296-10942-ND	Evaluation Module for TPS56302	—	50.00	—	—
TPS56302PWP	296-2477-5-ND	Dual DSP Supply Controller	28-HTSSOP	10.88	8.92	8.05
UC1842AMDREP	296-18181-1-ND	Current Mode PWM Controller	8-SOIC	6.68	5.55	5.04
UC1842AMDREP	296-18181-2-ND	Current Mode PWM Controller	8-SOIC	8190.00/2,500		
UC1843AMDREP	296-18182-1-ND	Current Mode PWM Controller	8-SOIC	6.68	5.55	5.04
UC1843AMDREP	296-18182-2-ND	Current Mode PWM Controller	8-SOIC	8190.00/2,500		
UC1844AMDREP	296-18183-1-ND	Current Mode PWM Controller	8-SOIC	6.68	5.55	5.04
UC1845AMDREP	296-18184-1-ND	Current Mode PWM Controller	8-SOIC	7.76	6.45	5.86
UC1846MDWREP	296-21291-1-ND	Current Mode PWM Controller	16-SOIC	7.66	6.36	5.78
UC2524ADW	296-11151-5-ND	Advanced Regulating PWM	16-SOIC	2.94	2.37	2.16
UC2524AN	296-11152-5-ND	Advanced Regulating PWM	16-Dip	2.94	2.37	2.16
UC2525ADW	296-11153-5-ND	Regulating PWM	16-SOIC	3.47	2.79	2.55
UC2525AN	296-11154-5-ND	Regulating PWM	16-Dip	3.47	2.79	2.55
UC2525BDW	296-2479-5-ND	Regulating PWM	16-SOIC	6.65	5.46	4.93
UC2526ADW	296-11155-5-ND	Regulating PWM	18-SOIC	3.47	2.79	2.55
UC2526AN	296-11156-5-ND	Regulating PWM	18-Dip	3.47	2.79	2.55
UC2572D	296-2480-5-ND	Negative Output Flyback PWM	8-SOIC	3.92	3.15	2.87
UC2572N	296-11157-5-ND	Negative Output Flyback PWM	8-Dip	3.92	3.15	2.87
UC2573N	296-11158-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	3.92	3.15	2.87
UC2625DW	296-11162-5-ND	Brushless DC Motor Controller	28-SOIC	14.30	12.03	11.05
UC2625MNEP	296-23382-5-ND	Brushless DC Motor Controller	28-Dip	22.00	18.70	17.33
UC2637DW	296-2481-5-ND	DC Motor Switch-Mode Controller	20-SOIC	10.50	8.61	7.77
UC2637N	296-11163-5-ND	DC Motor Switch-Mode Controller	18-Dip	10.50	8.61	7.77
UC2638DW	296-2482-5-ND	PWM Motor Controller	20-SOIC	9.35	7.67	6.92
UC2705D	296-2484-5-ND	High Speed Power Driver	8-SOIC	7.50	6.15	5.55
UC2705N	296-11164-5-ND	High Speed Power Driver	8-Dip	7.50	6.15	5.55
UC2706DW	296-2485-5-ND	Dual Output Driver	16-SOIC	7.13	5.85	5.28
UC2707DW	296-2486-5-ND	Dual Channel Power Driver	16-SOIC	8.88	7.28	6.57
UC2707N	296-11165-5-ND	Dual Channel Power Driver	16-Dip	8.88	7.28	6.57
UC2708DW	296-2487-5-ND	Dual Non-Inverting Power Driver	16-SOIC	10.88	8.92	8.05
UC2823ADW	296-2488-5-ND	High Speed PWM Controller	16-SOIC	17.49	14.71	13.52
UC2823AN	296-11166-5-ND	High Speed PWM Controller	16-Dip	17.49	14.71	13.52
UC2823BDW	296-2489-5-ND	High Speed PWM Controller	16-SOIC	20.13	16.93	15.56
UC2823N	296-11167-5-ND	High Speed PWM Controller	16-Dip	5.32	4.28	3.90
UC2824DW	296-15145-5-ND	High Speed PWM Controller	16-SOIC	19.69	16.56	15.22
UC2825ADW	296-2490-5-ND	High Speed PWM Controller	16-SOIC	8.38	6.87	6.20
UC2825AMDWREP	296-21292-1-ND	High Speed PWM Controller	16-SOIC	12.40	10.30	9.36
UC2825AMDWREP	296-21292-2-ND	High Speed PWM Controller	16-SOIC	12168.00/2,000		
UC2825AN	296-11168-5-ND	High Speed PWM Controller	16-Dip	8.38	6.87	6.20
UC2825AQDWREP	296-19565-1-ND	High Speed PWM Controller	16-SOIC	10.44	8.67	7.88
UC2825AQDWREP	296-19565-2-ND	High Speed PWM Controller	16-SOIC	10244.00/2,000		
UC2825BDW	296-2491-5-ND	High Speed PWM Controller	16-SOIC	14.08	11.84	10.88
UC2825BN	296-11169-5-ND	High Speed PWM Controller	16-Dip	14.08	11.84	10.88
UC2825DW	296-11170-5-ND	High Speed PWM Controller	16-SOIC	5.32	4.28	3.90
UC2825N	296-11171-5-ND	High Speed PWM Controller	16-Dip	5.32	4.28	3.90
UC2827DW-1	296-2492-5-ND	Current Fed PWM Controller	24-SOIC	11.00	9.02	8.14
UC2827DW-2	296-2493-5-ND	Voltage Fed PWM Controller	24-SOIC	11.00	9.02	8.14
UC2834N	296-11172-5-ND	High-Efficiency Regulator Controller	16-Dip	15.07	12.68	11.65
UC2842AD	296-11173-5-ND	Current-Mode PWM Controller	14-SOIC	2.51	2.03	1.83
UC2842AD8	296-11174-5-ND	Current-Mode PWM Controller	8-SOIC	2.51	2.03	1.83
UC2842AN	296-11175-5-ND	Current-Mode PWM Controller	8-Dip	2.51	2.03	1.83
UC2842N	296-11176-5-ND	Current-Mode PWM Controller	8-Dip	2.94	2.37	2.16
UC2843AD	296-11177-5-ND	Current-Mode PWM Controller	14-SOIC	2.80	2.25	2.05
UC2843AD8	296-11178-5-ND	Current-Mode PWM Controller	8-SOIC	2.80	2.25	2.05
UC2843AD8TR	296-27142-1-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	3.01	2.33	2.11
UC2843AD8TR	296-27142-2-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2902.50/2,500		
UC2843AN	296-11179-5-ND	Current-Mode PWM Controller	8-Dip	2.80	2.25	2.05
UC2843AQD8RQ1	296-24809-1-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	3.01	2.33	2.11
UC2843AQD8RQ1	296-24809-2-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2902.50/2,500		
UC2843D	296-27143-5-ND	Current-Mode PWM Cont.* ***NEW!***	14-SOIC	2.80	2.25	2.05
UC2843D8	296-11180-5-ND	Current-Mode PWM Controller	8-SOIC	2.80	2.25	2.05
UC2843N	296-11181-5-ND	Current-Mode PWM Controller	8-Dip	2.80	2.25	2.05
UC2844AD	296-11182-5-ND	Current-Mode PWM Controller	14-SOIC	2.51	2.03	1.83
UC2844AD8	296-27144-5-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2.51	2.03	1.83
UC2844AN	296-11183-5-ND	Current-Mode PWM Controller	8-Dip	2.51	2.03	1.83
UC2844AQD	296-15681-5-ND	Current-Mode PWM Controller	14-SOIC	2.51	2.03	1.83
UC2844AQD8	296-15682-5-ND	Current-Mode PWM Controller	8-SOIC	2.51	2.03	1.83
UC2844AQD8R	296-15683-1-ND	Current-Mode PWM Controller	8-SOIC	2.49	1.92	1.74
UC2844AQD8R	296-15683-2-ND	Current-Mode PWM Controller	8-SOIC	2397.50/2,500		
UC2844D8	296-11184-5-ND	Current-Mode PWM Controller	8-SOIC	2.80	2.25	2.05
UC2844N	296-27145-5-ND	Current-Mode PWM Cont.* ***NEW!***	8-PDIP	2.80	2.25	2.05
UC2845AD	296-11185-5-ND	Current-Mode PWM Controller	14-SOIC	2.51	2.03	1.83
UC2845AD8	296-11186-5-ND	Current-Mode PWM Controller	8-SOIC	2.51	2.03	1.83
UC2845AN	296-11187-5-ND	Current-Mode PWM Controller	8-Dip	2.51	2.03	1.83
UC2845AQDR	296-15205-1-ND	Current-Mode PWM Controller	14-SOIC	2.49	1.92	1.74

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TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC2845AQD8R	296-15204-1-ND	Current-Mode PWM Controller	8-SOIC	2.84	2.19	1.99
UC2845AQD8R	296-15204-2-ND	Current-Mode PWM Controller	8-SOIC	2735.00/2,500		
UC2845D	296-27146-5-ND	Current-Mode PWM Cont.* ***NEW!***	14-SOIC	2.20	1.78	1.60
UC2845N	296-11188-5-ND	Current-Mode PWM Controller	8-Dip	2.20	1.78	1.60
UC2846DW	296-11189-5-ND	Current-Mode PWM Controller	16-SOIC	5.60	4.50	4.10
UC2846N	296-11190-5-ND	Current-Mode PWM Controller	16-Dip	5.60	4.50	4.10
UC2849DW	296-2494-5-ND	Secondary-Side Current-Mode Cont.	24-SOIC	10.38	8.51	7.68
UC2849N	296-11191-5-ND	Secondary-Side Current-Mode Cont.	24-Dip	10.38	8.51	7.68
UC2851N	296-11192-5-ND	Prog. Off-Line PWM Controller	18-Dip	20.35	17.12	15.73
UC2853AD	296-19434-ND	High Power Factor Pre-Regulator	8-SOIC	3.36	2.70	2.46
UC2853AN	296-19435-ND	High Power Factor Pre-Regulator	8-Dip	3.36	2.70	2.46
UC2853N	296-11193-5-ND	High Power Factor Pre-Regulator	8-Dip	3.92	3.15	2.87
UC2854ADW	296-2495-5-ND	Power Factor Pre-Regulator	16-SOIC	5.18	4.17	3.80
UC2854AN	296-27147-5-ND	Power Factor Pre-Regulator* ***NEW!***	16-Dip	5.18	4.17	3.80
UC2854BDW	296-2496-5-ND	Power Factor Pre-Regulator	16-SOIC	5.18	4.17	3.80
UC2854BDWTR	296-27148-1-ND	Power Factor Pre-Regulator* ***NEW!***	16-SOIC	4.65	3.80	3.41
UC2854BDWTR	296-27148-2-ND	Power Factor Pre-Regulator* ***NEW!***	16-SOIC	4124.00/2,000		
UC2854BN	296-11194-5-ND	Power Factor Pre-Regulator	16-Dip	5.18	4.17	3.80
UC2854DW	296-11195-5-ND	Power Factor Pre-Regulator	16-SOIC	4.62	3.72	3.39
UC2854N	296-27149-5-ND	Power Factor Pre-Regulator* ***NEW!***	16-Dip	4.62	3.72	3.39
UC2855ADW	296-2497-5-ND	Power Factor Pre-Regulator	20-SOIC	17.60	14.80	13.60
UC2855BDW	296-2498-5-ND	Power Factor Pre-Regulator	20-SOIC	17.60	14.80	13.60
UC2855BN	296-11196-5-ND	Power Factor Pre-Regulator	20-Dip	17.60	14.80	13.60
UC2856DW	296-11197-5-ND	Improved Current-Mode PWM Cont.	16-SOIC	6.02	4.84	4.41
UC2856N	296-11198-5-ND	Improved Current-Mode PWM Cont.	16-Dip	6.02	4.84	4.41
UC2861DW	296-14061-5-ND	Resonant-Mode Power Supply Cont.	16-SOIC	7.00	5.74	5.18
UC2864DW	296-11199-5-ND	Power Supply Controller	16-SOIC	7.00	5.74	5.18
UC2866N	296-15348-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	7.00	5.74	5.18
UC2872DW	296-11200-5-ND	Lamp Ballast Controller	16-SOIC	12.10	10.18	9.35
UC2875DWP	296-27150-5-ND	Phase Shift Resonant Ctrlr.* ***NEW!***	28-SOIC	13.86	11.66	10.71
UC2875N	296-11201-5-ND	Phase Shift Resonant Controller	20-Dip	13.86	11.66	10.71
UC2879DW	296-11202-5-ND	Phase Shift PWM Controller	20-SOIC	12.00	9.84	8.88
UC2879N	296-11203-5-ND	Phase Shift PWM Controller	20-Dip	12.00	9.84	8.88
UC2901D	296-11204-5-ND	Isolated Feedback Generator	14-SOIC	8.00	6.56	5.92
UC2901MDREP	296-22532-1-ND	Isolated Feedback Generator	14-SOIC	13.06	10.85	9.86
UC2901N	296-11205-5-ND	Isolated Feedback Generator	14-Dip	8.00	6.56	5.92
UC2901Q	296-11206-5-ND	Isolated Feedback Generator	20-PLCC	8.00	6.56	5.92
UC2902D	296-27151-5-ND	Load Share Controller* ***NEW!***	8-SOIC	6.50	5.33	4.81
UC2903N	296-11207-5-ND	Supply/Line Monitor	18-Dip	7.63	6.26	5.65
UC2906N	296-11208-5-ND	Lead Acid Charge Management	16-Dip	6.88	5.64	5.09
UC2907DW	296-2499-5-ND	Load Share Controller	16-SOIC	7.38	6.05	5.46
UC3524ADW	296-11211-5-ND	Advanced Regulating PWM	16-SOIC	2.80	2.25	2.05
UC3524AN	296-11212-5-ND	Advanced Regulating PWM	16-Dip	2.80	2.25	2.05
UC3524D	296-11213-5-ND	Advanced Regulating PWM	16-SOIC	2.79	2.25	2.03
UC3524N	296-11214-5-ND	Advanced Regulating PWM	16-Dip	2.79	2.25	2.03
UC3525ADW	296-11215-5-ND	Regulating PWM	16-SOIC	3.33	2.68	2.44
UC3525AN	296-11216-5-ND	Regulating PWM	16-Dip	3.33	2.68	2.44
UC3525AQ	296-11217-5-ND	Regulating PWM	20-PLCC	3.33	2.68	2.44
UC3525BDW	296-2503-5-ND	Regulating PWM	16-SOIC	6.43	5.27	4.76
UC3525BN	296-11218-5-ND	Regulating PWM	16-Dip	6.43	5.27	4.76
UC3526ADW	296-11219-5-ND	Regulating PWM	18-SOIC	3.33	2.68	2.44
UC3526AN	296-11220-5-ND	Regulating PWM	18-Dip	3.33	2.68	2.44
UC3526DW	296-11221-5-ND	Regulating PWM	18-SOIC	3.33	2.68	2.44
UC3526N	296-11222-5-ND	Regulating PWM	18-Dip	3.33	2.68	2.44
UC3527AN	296-11223-5-ND	Regulating PWM	16-Dip	5.60	4.50	4.10
UC3527BN	296-2504-5-ND	Regulating PWM	16-Dip	7.50	6.15	5.55
UC3572D	296-2506-5-ND	Negative Output Flyback PWM	8-SOIC	3.64	2.93	2.67
UC3572N	296-11224-5-ND	Negative Output Flyback PWM	8-Dip	3.64	2.93	2.67
UC3573D	296-2507-5-ND	Buck PWM Voltage Supply Regulator	8-SOIC	3.64	2.93	2.67
UC3573N	296-11225-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	3.64	2.93	2.67
UC3578DP	296-11226-5-ND	Buck PWM Step Down Voltage Reg.	16-SOIC	8.88	7.28	6.57
UC3578N	296-11227-5-ND	Buck PWM Step Down Voltage Reg.	16-Dip	8.88	7.28	6.57
UC3625DW	296-11235-5-ND	Brushless DC Motor Controller	28-SOIC	13.20	11.10	10.20
UC3625N	296-11236-5-ND	Brushless DC Motor Controller	28-Dip	13.20	11.10	10.20
UC3625Q	296-15064-5-ND	Brushless DC Motor Controller	28-PLCC	13.20	11.10	10.20
UC3637DW	296-2508-5-ND	DC Motor Drive Controller	20-SOIC	9.63	7.90	7.13
UC3637N	296-11237-5-ND	DC Motor Drive Controller	18-Dip	9.63	7.90	7.13
UC3638DW	296-2509-5-ND	PWM Motor Controller	20-SOIC	9.88	8.10	7.31
UC3638N	296-11238-5-ND	PWM Motor Controller	20-Dip	9.88	8.10	7.31
UC3638Q	296-13056-5-ND	Advanced PWM Motor Controller	20-PLCC	9.88	8.10	7.31
UC3705D	296-2511-5-ND	High Speed Power Driver	8-SOIC	7.00	5.74	5.18
UC3705N	296-11240-5-ND	High Speed Power Driver	8-Dip	7.00	5.74	5.18
UC3705T	296-11241-5-ND	High Speed Power Driver	TO-220-5	7.00	5.74	5.18
UC3706DW	296-2512-5-ND	Dual Output Driver	16-SOIC	6.88	5.64	5.09
UC3707DW	296-2513-5-ND	Dual Channel Power Driver	16-SOIC	7.63	6.26	5.65
UC3707N	296-11243-5-ND	Dual Channel Power Driver	16-Dip	7.63	6.26	5.65
UC3708DW	296-2514-5-ND	Dual Non-Inverting Power Driver	16-SOIC	9.38	7.69	6.94
UC3708N	296-12120-5-ND	Dual Non-Inverting Power Driver	8-Dip	9.38	7.69	6.94
UC3708NE	296-11244-5-ND	Dual Non-Inverting Power Driver	16-Dip	9.38	7.69	6.94
UC3823ADW	296-2515-5-ND	High Speed PWM Controller	16-SOIC	16.17	13.60	12.50
UC3823AN	296-11261-5-ND	High Speed PWM Controller	16-Dip	16.17	13.60	12.50
UC3823BN	296-11262-5-ND	High Speed PWM Controller	16-Dip	19.36	16.28	14.96
UC3823DW	296-11263-5-ND	High Speed PWM Controller	16-SOIC	5.07	4.08	3.72
UC3823Q	296-11264-5-ND	High Speed PWM Controller	20-PLCC	5.07	4.08	3.72
UC3823BDW	296-2516-5-ND	High Speed PWM Controller	16-SOIC	19.36	16.28	14.96
UC3824DW	296-11265-5-ND	High Speed PWM Controller	16-SOIC	19.69	16.56	15.22
UC3824N	296-11266-5-ND	High Speed PWM Controller	16-Dip	19.69	16.56	15.22
UC3825ADW	296-2517-5-ND	High Speed PWM Controller	16-SOIC	8.00	6.56	5.92
UC3825AN	296-11267-5-ND	High Speed PWM Controller	16-Dip	8.00	6.56	5.92
UC3825AQ	296-11268-5-ND	High Speed PWM Controller	20-PLCC	8.00	6.56	5.92
UC3825BDW	296-2518-5-ND	High Speed PWM Controller	16-SOIC	13.53	11.38	10.46
UC3825BN	296-11269-5-ND	High Speed PWM Controller	16-Dip	13.53	11.38	10.46
UC3825DW	296-11270-5-ND	High Speed PWM Controller	16-SOIC	5.07	4.08	3.72
UC3825N	296-11271-5-ND	High Speed PWM Controller	16-Dip	5.07	4.08	3.72
UC3827DW-1	296-2519-5-ND	Buck, Current Fed PWM Controller	24-SOIC	10.50	8.61	7.77
UC3827DW-2	296-2520-5-ND	Buck, Voltage Fed PWM Controller	24-SOIC	10.50	8.61	7.77
UC3827N-1	296-2521-5-ND	Buck, Current Fed PWM Controller	24-Dip	10.50	8.61	7.77
UC3827N-2	296-2522-5-ND	Buck, Voltage Fed PWM Controller	24-Dip	10.50	8.61	7.77
UC3834N	296-11275-5-ND	High Efficiency Linear Regulator	16-Dip	12.43	10.46	9.61
UC3835N	296-2523-5-ND	High Efficiency Regulator Controller	8-Dip	7.63	6.26	5.65
UC3836D	296-2524-5-ND	High Efficiency Regulator Controller	8-SOIC	10.13	8.31	7.50

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC3836N	296-11276-5-ND	High Efficiency Regulator Controller	8-Dip	8.50	6.97	6.29
UC3841N	296-11277-5-ND	Prog., Off-Line, PWM Controller	18-Dip	11.33	9.53	8.76
UC3842AD	296-11278-5-ND	Current-Mode PWM Controller	14-SOP	2.36	1.90	1.71
UC3842AD8	296-11279-5-ND	Current-Mode PWM Controller	8-SOP	2.36	1.90	1.71
UC3842ADW	296-13426-5-ND	Current-Mode PWM Controller	16-SOIC	2.36	1.90	1.71
UC3842AN	296-11280-5-ND	Current-Mode PWM Controller	8-Dip	2.36	1.90	1.71
UC3842D	296-13427-5-ND	Current-Mode PWM Controller	14-SOIC	2.79	2.25	2.03
UC3842D8	296-11281-5-ND	Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UC3842N	296-11282-5-ND	Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UC3843AD	296-11283-5-ND	Current-Mode PWM Controller	14-SOIC	2.79	2.25	2.03
UC3843AD8	296-11284-5-ND	Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UC3843AD8TR	296-27152-1-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2.66	2.06	1.87
UC3843AD8TR	296-27152-2-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2565.00/2,500		
UC3843AN	296-11285-5-ND	Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UC3843D	296-11286-5-ND	Current-Mode PWM Controller	14-SOIC	2.79	2.25	2.03
UC3843D8	296-11287-5-ND	Current-Mode PWM Controller	8-SOP	2.79	2.25	2.03
UC3843N	296-11288-5-ND	Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UC3844AD	296-11289-5-ND	Current-Mode PWM Controller	14-SOIC	2.36	1.90	1.71
UC3844AD8	296-11290-5-ND	Current-Mode PWM Controller	8-SOIC	2.36	1.90	1.71
UC3844AN	296-11291-5-ND	Current-Mode PWM Controller	8-Dip	2.36	1.90	1.71
UC3844D	296-11292-5-ND	Current-Mode PWM Controller	14-SOIC	2.79	2.25	2.03
UC3844D8	296-11293-5-ND	Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UC3844N	296-11294-5-ND	Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UC3845AD	296-11295-5-ND	Current-Mode PWM Controller	14-SOIC	2.36	1.90	1.71
UC3845AD8	296-11296-5-ND	Current-Mode PWM Controller	8-SOIC	2.36	1.90	1.71
UC3845AD8TR	296-27153-1-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2.17	1.68	1.52
UC3845AD8TR	296-27153-2-ND	Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2092.50/2,500		
UC3845AN	296-11297-5-ND	Current-Mode PWM Controller	8-Dip	2.36	1.90	1.71
UC3845D	296-11298-5-ND	Current-Mode PWM Controller	14-SOIC	2.20	1.78	1.60
UC3845D8	296-11299-5-ND	Current-Mode PWM Controller	8-SOIC	2.20	1.78	1.60
UC3846DW	296-11300-5-ND	Current-Mode PWM Controller	16-SOIC	5.32	4.28	3.90
UC3846N	296-11301-5-ND	Current-Mode PWM Controller	16-Dip	5.32	4.28	3.90
UC3847DW	296-11302-5-ND	Current-Mode PWM Controller	16-SOIC	8.63	7.08	6.39
UC3847N	296-11303-5-ND	Current-Mode PWM Controller	16-Dip	8.63	7.08	6.39
UC3848DW	296-11304-5-ND	Avg. Current-Mode PWM Controller	16-SOIC	7.50	6.15	5.55
UC3849DW	296-2525-5-ND	Secondary-Side Current-Mode Cont.	24-SOIC	9.25	7.59	6.85
UC3851N	296-11305-5-ND	Prog. Off-Line PWM Controller	18-Dip	20.35	17.12	15.73
UC3852D	296-11306-5-ND	Power Factor Pre-Regulator	8-SOIC	5.74	4.62	4.21
UC3852N	296-11307-5-ND	Power Factor Pre-Regulator	8-Dip	5.74	4.62	4.21
UC3853D	296-11308-5-ND	Power Factor Pre-Regulator	8-SOIC	3.36	2.70	2.46
UC3853N	296-11309-5-ND	Power Factor Pre-Regulator	8-Dip	3.36	2.70	2.46
UC3854ADW	296-2526-5-ND	Power Factor Pre-Regulator	16-SOIC	4.62	3.72	3.39
UC3854AN	296-11310-5-ND	Power Factor Pre-Regulator	16-Dip	4.62	3.72	3.39
UC3854BDW	296-2527-5-ND	Power Factor Pre-Regulator	16-SOIC	4.62	3.72	3.39
UC3854BN	296-11311-5-ND	Power Factor Pre-Regulator	16-Dip	4.62	3.72	3.39
UC3854DW	296-11312-5-ND	Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UC3854DWTR	296-27154-1-ND	Power Factor Pre-Regulator* ***NEW!***	16-SOIC	3.45	2.82	2.53
UC3854DWTR	296-27154-2-ND	Power Factor Pre-Regulator* ***NEW!***	16-SOIC	3060.00/2,000		
UC3854N	296-11313-5-ND	Power Factor Pre-Regulator	16-Dip	3.92	3.15	2.87
UC3855ADW	296-2528-5-ND	Power Factor Pre-Regulator	20-SOIC	15.07	12.68	11.65
UC3855AN	296-11314-5-ND	Power Factor Pre-Regulator	20-Dip	15.07	12.68	11.65
UC3855BDW	296-2529-5-ND	Power Factor Pre-Regulator	20-SOIC	15.07	12.68	11.65
UC3855BN	296-11315-5-ND	Power Factor Pre-Regulator	20-Dip	15.07	12.68	11.65
UC3856DW	296-11316-5-ND	Current-Mode PWM Controller	16-SOIC	5.74	4.62	4.21
UC3856N	296-11317-5-ND	Current-Mode PWM Controller	16-Dip	5.74	4.62	4.21
UC3861DW	296-14332-5-ND	Resonant-Mode Power Supply Cont.	16-SOIC	6.25	5.13	4.63
UC3861N	296-11318-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3862N	296-11319-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3863N	296-11320-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3864DW	296-11321-5-ND	Resonant-Mode Power Supply Cont.	16-SOIC	5.74	4.62	4.21
UC3864N	296-11322-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3865N	296-11323-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3867N	296-11324-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3868N	296-11325-5-ND	Resonant-Mode Power Supply Cont.	16-Dip	6.25	5.13	4.63
UC3875DWP	296-11331-5-ND	Phase Shift Resonant Controller	28-SOIC	12.76	10.73	9.86
UC3875N	296-11332-5-ND	Phase Shift Resonant Controller	20-Dip	12.76	10.73	9.86
UC3876N	296-11333-5-ND	Phase Shift Resonant Controller	20-Dip	21.67	18.23	16.75
UC3879DW	296-11334-5-ND	Phase Shift Resonant Controller	20-SOIC	11.13	9.13	8.24
UC3879N	296-11335-5-ND	Phase Shift Resonant Controller	20-Dip	11.13	9.13	8.24
UC3886D	296-11336-5-ND	Current-Mode PWM Controller	16-SOIC	7.63	6.26	5.65
UC3886N	296-11337-5-ND	Current-Mode PWM Controller	16-Dip	7.63	6.26	5.65
UC3902D	296-11340-5-ND	Load Share Controller	8-SOIC	6.30	5.07	4.62
UC3902N	296-11341-5-ND	Load Share Controller	8-Dip	6.30	5.07	4.62
UC3903N	296-11342-5-ND	Quad Supply/Line Monitor	18-Dip	6.88	5.64	5.09
UC3907DW	296-2530-5-ND	Load Share Controller	16-SOIC	6.25	5.13	4.63
UC3907N	296-11344-5-ND	Load Share Controller	16-Dip	6.25	5.13	4.63
UC3910N	296-11346-5-ND	4-Bit DAC and Voltage Monitor	16-Dip	7.13	5.85	5.28
UC28023DW	296-15060-5-ND	High Speed PWM Controller	16-SOIC	4.62	3.72	3.39
UC28023N	296-15061-5-ND	High Speed PWM Controller	16-Dip	4.62	3.72	3.39
UC28025DW	296-15062-5-ND	High Speed PWM Controller	16-SOIC	4.40	3.54	3.22
UC28025N	296-15063-5-ND	High Speed PWM Controller	16-Dip	4.40	3.54	3.22
UCC28C40D	296-13429-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.64	2.13	1.92
UCC28C40DGK	296-12570-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.64	2.13	1.92
UCC28C40P	296-12571-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.64	2.13	1.92
UCC28C41D	296-13430-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UCC28C41DGK	296-12572-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.79	2.25	2.03
UCC28C41P	296-12573-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UCC28C41QDRQ1	296-25549-1-ND	BiCMOS Low Power Current-Mode PWM Controller* ***NEW!***	8-SOIC	2.80	2.16	1.96
UCC28C41QDRQ1	296-25549-2-ND	BiCMOS Low Power Current-Mode PWM Controller* ***NEW!***	8-SOIC	2700.00/2,500		
UCC28C42D	296-13431-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UCC28C42DGK	296-12291-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.79	2.25	2.03
UCC28C42P	296-13432-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC28C43D	296-13433-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UCC28C43DGK	296-12292-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.79	2.25	2.03
UCC28C43P	296-13434-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UCC28C44D	296-13435-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC28C44DGK	296-12574-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC28C44DR	296-27165-1-ND	BiCMOS LP Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2.63	2.03	1.84
UCC28C44DR	296-27165-2-ND	BiCMOS LP Current-Mode PWM Cont.* ***NEW!***	8-SOIC	2532.50/2,500		
UCC28C44P	296-12575-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC28C45D	296-12576-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.79	2.25	2.03
UCC28C45DGK	296-12293-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	2.79	2.25	2.03
UCC28C45P	296-13436-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.79	2.25	2.03
UCC38C40D	296-13832-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC38C40DGK	296-13833-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C40P	296-13834-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC38C41D	296-13835-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC38C41DGK	296-13836-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C41P	296-13837-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC38C42D	296-13838-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC38C42DGK	296-13839-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C42P	296-13840-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC38C43D	296-12253-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	2.64	2.13	1.92
UCC38C43DGK	296-13841-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C43P	296-13441-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	2.64	2.13	1.92
UCC38C44D	296-13842-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC38C44DGK	296-13843-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C44P	296-13442-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC2580D-1	296-11374-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	6.25	5.13	4.63
UCC38C45D	296-13844-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-SOIC	2.64	2.13	1.92
UCC38C45DGK	296-13845-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-MSOP	2.64	2.13	1.92
UCC38C45P	296-13846-5-ND	BiCMOS LP Current-Mode PWM Cont.	8-Dip	2.64	2.13	1.92
UCC2540PWP	296-17103-5-ND	High-Eff. Secondary Side Sync. Buck PWM Controller	20-HTSSOP	6.30	5.07	4.62
UCC2580D-2	296-11375-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	6.25	5.13	4.63
UCC2580D-3	296-11376-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	6.25	5.13	4.63
UCC2580D-4	296-11377-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	7.75	6.36	5.74
UCC2580N-1	296-11378-5-ND	Single End Active Clamp/Reset PWM	16-Dip	6.25	5.13	4.63
UCC2580N-2	296-11671-5-ND	Single End Active Clamp/Reset PWM	16-Dip	6.25	5.13	4.63
UCC2580N-3	296-11672-5-ND	Single End Active Clamp/Reset PWM	16-Dip	6.25	5.13	4.63
UCC2580N-4	296-11673-5-ND	Single End Active Clamp/Reset PWM	16-Dip	7.75	6.36	5.74
UCC2581D	296-11379-5-ND	Micropower Voltage Mode PWM	14-SOIC	4.76	3.83	3.49
UCC2583D	296-12392-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	7.50	6.15	5.55
UCC2583N	296-12115-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	7.50	6.15	5.55
UCC2800D	296-11380-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2800N	296-11381-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2801D	296-11382-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2801N	296-11383-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2801DTR	296-27157-1-ND	LP BiCMOS Current-Mode PWM* ***NEW!***	8-SOIC	3.60	2.94	2.64
UCC2801DTR	296-27157-2-ND	LP BiCMOS Current-Mode PWM* ***NEW!***	8-SOIC	3990.00/2,500		
UCC2802D	296-11384-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2802N	296-11385-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2803D	296-11386-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2803N	296-11387-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2803QDRQ1	296-15687-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.90	3.19	2.86
UCC2803QDRQ1	296-15687-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4322.50/2,500		
UCC2804D	296-11388-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2804N	296-11389-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2804QDREP	296-18190-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	7.35	6.01	5.39
UCC2804QDRQ1	296-15688-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.90	3.19	2.86
UCC2804QDRQ1	296-15688-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4322.50/2,500		
UCC2805D	296-11390-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.92	3.15	2.87
UCC2805N	296-11675-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.92	3.15	2.87
UCC2805PW	296-13532-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.92	3.15	2.87
UCC2806DW	296-11391-5-ND	LP, Dual Output, Current-Mode PWM	16-SOIC	12.54	10.55	9.69
UCC2806M	296-11676-5-ND	LP, Dual-Output, Current-Mode PWM	16-QSOP	12.54	10.55	9.69
UCC2806PW	296-12393-5-ND	LP, Dual Output, Current-Mode PWM	16-TSSOP	12.54	10.55	9.69
UCC2807D-1	296-11393-5-ND	Programmable Duty Cycle PWM	8-SOIC	5.46	4.39	4.00
UCC2807D-2	296-2533-5-ND	Programmable Max-Duty PWM	8-SOIC	5.46	4.39	4.00
UCC2807D-3	296-11678-5-ND	Programmable Max-Duty PWM	8-SOIC	4.62	3.72	3.39
UCC2807N-2	296-11394-5-ND	Programmable Duty Cycle PWM	8-Dip	5.46	4.39	4.00
UCC2808AD-1	296-11395-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.50	2.82	2.57
UCC2808AD-2	296-11396-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4.48	3.60	3.28
UCC2808AN-1	296-11397-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.50	2.82	2.57
UCC2808AN-2	296-11398-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	4.48	3.60	3.28
UCC2808APW-1	296-11679-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.50	2.82	2.57
UCC2808APW-2	296-11680-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	4.48	3.60	3.28
UCC2808AQDR-2Q1	296-19037-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4.20	3.38	3.08
UCC2808D-1	296-2534-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.50	2.82	2.57
UCC2808D-2	296-2535-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.50	2.82	2.57
UCC2808DTR-2	296-27160-1-ND	LP Current-Mode Push/Pull PWM* ***NEW!***	8-SOIC	3.15	2.58	2.31
UCC2808DTR-2	296-27160-2-ND	LP Current-Mode Push/Pull PWM* ***NEW!***	8-SOIC	3492.50/2,500		
UCC2808N-1	296-11399-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.50	2.82	2.57
UCC2808N-2	296-11400-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.50	2.82	2.57
UCC2809D-1	296-11401-5-ND	Economy Primary Side Controller	8-SOIC	3.08	2.48	2.26
UCC2809D-2	296-11681-5-ND	Primary Side Controller	8-SOIC	3.08	2.48	2.26
UCC2809P-1	296-11402-5-ND	Economy Primary Side Controller	8-MSOP	3.08	2.48	2.26

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC2809P-2	296-11403-5-ND	Economy Primary Side Controller	8-MSOP	3.08	2.48	2.26
UCC2810DW	296-2536-5-ND	Dual Ch. Sync. Current-Mode PWM	16-SOIC	6.44	5.18	4.72
UCC2810N	296-11404-5-ND	Dual Ch. Sync. Current-Mode PWM	16-Dip	6.44	5.18	4.72
UCC2813D-0	296-11682-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813D-1	296-11405-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813D-2	296-11406-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813D-3	296-11407-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813D-4	296-11408-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813D-5	296-11409-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.50	2.82	2.57
UCC2813N-0	296-12055-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.50	2.82	2.57
UCC2813N-1	296-12056-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.50	2.82	2.57
UCC2813N-2	296-12057-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.50	2.82	2.57
UCC2813N-4	296-12058-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.50	2.82	2.57
UCC2813N-5	296-12059-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.50	2.82	2.57
UCC2813PW-0	296-12060-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813PW-1	296-12061-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813PW-2	296-12062-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813PW-3	296-12063-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813PW-4	296-12064-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813PW-5	296-12065-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.50	2.82	2.57
UCC2813QDR-3Q1	296-17879-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.60	2.94	2.64
UCC2817AD	296-15954-5-ND	Power Factor Pre-Regulator	16-SOIC	4.06	3.27	2.98
UCC2817APW	296-15955-5-ND	Power Factor Pre-Regulator	16-TSSOP	4.06	3.27	2.98
UCC2817D	296-11410-5-ND	Power Factor Pre-Regulator	16-SOP	4.20	3.38	3.08
UCC2817DW	296-11411-5-ND	Power Factor Pre-Regulator	16-SOIC	4.20	3.38	3.08
UCC2817PW	296-15161-5-ND	BiCMOS Power Factor Pre-Regulator	16-TSSOP	4.20	3.38	3.08
UCC2818AD	296-15956-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	4.06	3.27	2.98
UCC2818APW	296-15957-5-ND	BiCMOS Power Factor Pre-Regulator	16-TSSOP	4.06	3.27	2.98
UCC2818AQDRQ1	296-25649-1-ND	BiCMOS Power Factor Pre-Regulator* ***NEW!***	16-SOIC	4.05	3.31	2.97
UCC2818AQDRQ1	296-25649-2-ND	BiCMOS Power Factor Pre-Regulator* ***NEW!***	16-SOIC	4490.00/2,500		
UCC2818D	296-13428-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	4.06	3.27	2.98
UCC2818DW	296-11412-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	4.06	3.27	2.98
UCC2818MDREP	296-24685-1-ND	BiCMOS Power Factor Pre-Regulator* ***NEW!***	16-SOIC	7.14	5.84	5.24
UCC2818MDREP	296-24685-2-ND	BiCMOS Power Factor Pre-Regulator* ***NEW!***	16-SOIC	7912.50/2,500		
UCC2818PW	296-15162-5-ND	BiCMOS Power Factor Pre-Regulator	16-TSSOP	4.06	3.27	2.98
UCC2819AD	296-15958-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	4.06	3.27	2.98
UCC2819APW	296-15959-5-ND	BiCMOS Power Factor Pre-Regulator	16-TSSOP	4.06	3.27	2.98
UCC2819D	296-12537-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	4.20	3.38	3.08
UCC2819N	296-12538-5-ND	BiCMOS Power Factor Pre-Regulator	16-Dip	4.20	3.38	3.08
UCC2895DW	296-2537-5-ND	BiCMOS Adv. Phase Shift PWM Cont.	20-SOIC	11.00	9.02	8.14
UCC2895N	296-11418-5-ND	BiCMOS Adv. Phase Shift PWM Cont.	20-Dip	11.00	9.02	8.14
UCC2895PW	296-11419-5-ND	BiCMOS Adv. Phase Shift PWM Cont.	20-TSSOP	11.00	9.02	8.14
UCC2897APW	296-27163-5-ND	Advanced Current-Mode Active Clamp PWM Controller* ***NEW!***	20-TSSOP	4.06	3.27	2.98
UCC2960D	296-11421-5-ND	Primary Side Startup Controller	8-SOIC	3.50	2.82	2.57
UCC2960P	296-11422-5-ND	Primary Side Startup Controller	8-Dip	3.50	2.82	2.57
UCC2961D	296-11423-5-ND	Adv. Primary Side Startup Controller	14-SOIC	4.76	3.83	3.49
UCC2975PW	296-13437-5-ND	Multi-Topology Piezoelectric Transformer Controller	8-TSSOP	8.40	6.89	6.22
UCC2976PW	296-12539-5-ND	3V-13.5V Multi-Topology Transformer Controller	8-TSSOP	8.40	6.89	6.22
UCC2977EVM	296-20627-ND	Eval. Module for UCC2977/3977	—	50.00	—	—
UCC2977PW	296-12540-5-ND	3V-13.5V Multi-Topology Transformer Controller	8-TSSOP	8.40	6.89	6.22
UCC3580D-1	296-11436-5-ND	Active Clamp/Reset PWM	16-SOIC	6.44	5.18	4.72
UCC3580D-2	296-11437-5-ND	Active Clamp/Reset PWM	16-SOIC	6.44	5.18	4.72
UCC3580D-3	296-11438-5-ND	Active Clamp/Reset PWM	16-SOIC	6.44	5.18	4.72
UCC3580D-4	296-11439-5-ND	Active Clamp/ Reset PWM	16-SOIC	7.25	5.95	5.37
UCC3580EVM	296-13597-ND	Evaluation Module for UCC3580	—	101.00	—	—
UCC3580N-1	296-11440-5-ND	Active Clamp/Reset PWM	16-Dip	6.44	5.18	4.72
UCC3580N-2	296-11441-5-ND	Active Clamp/Reset PWM	16-Dip	6.44	5.18	4.72
UCC3580N-3	296-11442-5-ND	Active Clamp/Reset PWM	16-Dip	6.44	5.18	4.72
UCC3580N-4	296-11443-5-ND	Active Clamp/Reset PWM	16-SOP	7.25	5.95	5.37
UCC3581D	296-11444-5-ND	Micropower Voltage Mode PWM	14-SOIC	4.20	3.38	3.08
UCC3581N	296-11445-5-ND	Micropower Voltage Mode PWM	14-Dip	4.20	3.38	3.08
UCC3583D	296-11446-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	6.63	5.44	4.91
UCC3583N	296-11447-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	6.63	5.44	4.91
UCC3626DW	296-11452-5-ND	Brushless DC Motor Controller	28-SOIC	16.17	13.60	12.50
UCC3626PW	296-11453-5-ND	Brushless DC Motor Controller	28-TSSOP	16.28	13.69	12.58
UCC3800D	296-11457-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3800N	296-11458-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3800PW	296-11459-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3801D	296-11460-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3801N	296-11461-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3801PW	296-11462-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3802D	296-11463-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3802N	296-11464-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3802PW	296-11465-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3803D	296-12195-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3803N	296-11466-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3803PW	296-11467-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3804D	296-11468-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3804N	296-11469-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3804PW	296-11470-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3805D	296-11471-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.78	3.04	2.77
UCC3805N	296-11472-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.78	3.04	2.77
UCC3805PW	296-11473-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.78	3.04	2.77
UCC3806DW	296-11474-5-ND	LP Dual Output Current-Mode PWM	16-SOIC	12.25	10.05	9.07
UCC3806N	296-11475-5-ND	LP Dual Output Current-Mode PWM	16-Dip	12.25	10.05	9.07
UCC3806Q	296-11476-5-ND	LP Dual Output Current-Mode PWM	20-PLCC	12.25	10.05	9.07
UCC3807D-1	296-2541-5-ND	Prog. Duty Cycle PWM Controller	8-SOIC	5.04	4.05	3.69
UCC3807D-2	296-2542-5-ND	Prog. Duty Cycle PWM Controller	8-SOIC	5.04	4.05	3.69
UCC3807D-3	296-2543-5-ND	Prog. Duty Cycle PWM Controller	8-SOIC	5.04	4.05	3.69
UCC3807N-1	296-11477-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	5.04	4.05	3.69
UCC3807N-2	296-11478-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	5.04	4.05	3.69
UCC3807N-3	296-11479-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	5.04	4.05	3.69

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC3808AD-1	296-11480-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.36	2.70	2.46
UCC3808AD-2	296-11481-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4.34	3.49	3.18
UCC3808AN-1	296-13439-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.36	2.70	2.46
UCC3808AN-2	296-11482-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	4.34	3.49	3.18
UCC3808APW-1	296-11684-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.36	2.70	2.46
UCC3808APW-2	296-11685-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	4.34	3.49	3.18
UCC3808D-1	296-2544-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.36	2.70	2.46
UCC3808D-2	296-2545-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.36	2.70	2.46
UCC3808N-1	296-11483-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.36	2.70	2.46
UCC3808N-2	296-11484-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.36	2.70	2.46
UCC3809D-1	296-11485-5-ND	Economy Primary Side Controller	8-SOIC	2.80	2.25	2.05
UCC3809D-2	296-11486-5-ND	Economy Primary Side Controller	8-SOIC	2.80	2.25	2.05
UCC3809EVM	296-12294-ND	Evaluation Module for UCC3809	—	101.00	—	—
UCC3809N-1	296-11487-5-ND	Economy Primary Side Controller	8-Dip	2.80	2.25	2.05
UCC3809N-2	296-11488-5-ND	Economy Primary Side Controller	8-Dip	2.80	2.25	2.05
UCC3809P-1	296-11489-5-ND	Economy Primary Side Controller	8-MSOP	2.80	2.25	2.05
UCC3809P-2	296-13440-5-ND	Economy Primary Side Controller	8-MSOP	2.80	2.25	2.05
UCC3809PW-1	296-11490-5-ND	Economy Primary Side Controller	8-TSSOP	2.80	2.25	2.05
UCC3809PW-2	296-12395-5-ND	Economy Primary Side Controller	8-TSSOP	2.80	2.25	2.05
UCC3810DW	296-2546-5-ND	2-Channel Sync. Current-Mode PWM	16-SOIC	6.16	4.95	4.51
UCC3810N	296-11491-5-ND	2-Channel Sync. Current-Mode PWM	16-Dip	6.16	4.95	4.51
UCC3813D-0	296-11492-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813D-1	296-11493-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813D-2	296-11494-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813D-3	296-11495-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813D-4	296-11496-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813D-5	296-11497-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.36	2.70	2.46
UCC3813N-0	296-11498-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813N-1	296-11499-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813N-2	296-11500-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813N-3	296-11501-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813N-4	296-11502-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813N-5	296-11503-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.36	2.70	2.46
UCC3813PW-0	296-11504-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3813PW-1	296-11505-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3813PW-2	296-11506-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3813PW-3	296-11507-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3813PW-4	296-11508-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3813PW-5	296-11509-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.36	2.70	2.46
UCC3817AD	296-16717-5-ND	Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UCC3817AN	296-16718-5-ND	Power Factor Pre-Regulator	16-Dip	3.92	3.15	2.87
UCC3817APW	296-16719-ND	Power Factor Pre-Regulator	16-TSSOP	3.92	3.15	2.87
UCC3817D	296-2547-5-ND	Power Factor Pre-Regulator	16-SOIC	3.78	3.04	2.77
UCC3817DW	296-11510-5-ND	Power Factor Pre-Regulator	16-SOIC	3.78	3.04	2.77
UCC3817EVM	296-11511-5-ND	Evaluation Module for UCC3817	—	101.00	—	—
UCC3817N	296-11512-5-ND	Power Factor Pre-Regulator	16-Dip	3.78	3.04	2.77
UCC3817PW	296-15166-5-ND	Power Factor Pre-Regulator	16-TSSOP	3.22	2.59	2.36
UCC3818AD	296-16720-5-ND	Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UCC3818AN	296-16721-5-ND	Power Factor Pre-Regulator	16-Dip	3.92	3.15	2.87
UCC3818APW	296-16722-ND	Power Factor Pre-Regulator	16-TSSOP	3.92	3.15	2.87
UCC3818D	296-11513-5-ND	Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UCC3818DW	296-11514-5-ND	Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UCC3818N	296-11515-5-ND	Power Factor Pre-Regulator	16-Dip	3.92	3.15	2.87
UCC3818PW	296-15167-5-ND	Power Factor Pre-Regulator	16-TSSOP	3.92	3.15	2.87
UCC3819AD	296-16723-5-ND	Programmable Output Power Factor Pre-Regulator	16-SOIC	3.92	3.15	2.87
UCC3819AN	296-16724-5-ND	Programmable Output Power Factor Pre-Regulator	16-Dip	3.92	3.15	2.87
UCC3819APW	296-16725-ND	Programmable Output Power Factor Pre-Regulator	16-TSSOP	3.92	3.15	2.87
UCC3837D	296-2548-5-ND	N-FET Supply Controller	8-SOIC	6.58	5.29	4.82
UCC3839D	296-11516-5-ND	Secondary Side Average Current Mode Controller	14-SOIC	3.50	2.82	2.57
UCC3884D	296-2551-5-ND	Current-Mode PWM Controller	16-SOIC	5.46	4.39	4.00
UCC3884N	296-11530-5-ND	Current-Mode PWM Controller	16-Dip	5.46	4.39	4.00
UCC3888D	296-11531-5-ND	Off-Line Power Supply Controller	8-SOIC	2.33	1.88	1.69
UCC3888N	296-11532-5-ND	Off-Line Power Supply Controller	8-Dip	2.33	1.88	1.69
UCC3889D	296-11533-5-ND	Off-Line Power Supply Controller	8-SOIC	2.33	1.88	1.69
UCC3889EVM	296-13598-ND	Evaluation Module for UCC3889	—	101.00	—	—
UCC3889N	296-11534-5-ND	Off-Line Power Supply Controller	8-Dip	2.33	1.88	1.69
UCC3895DW	296-2552-5-ND	Phase Shift PWM Controller	20-SOIC	10.50	8.61	7.77
UCC3895EVM-001	296-20628-ND	Evaluation Module for UCC3895	—	152.00	—	—
UCC3895N	296-11538-5-ND	Phase Shift PWM Controller	20-Dip	10.50	8.61	7.77
UCC3895PW	296-11686-5-ND	Phase Shift PWM Controller	20-TSSOP	10.50	8.61	7.77
UCC3895Q	296-11539-5-ND	Phase Shift PWM Controller	20-PLCC	10.50	8.61	7.77
UCC3960D	296-11561-5-ND	Primary Side Startup Controller	8-SOIC	3.22	2.59	2.36
UCC3960P	296-11562-5-ND	Primary Side Startup Controller	8-Dip	3.22	2.59	2.36
UCC3961D	296-11563-5-ND	Adv. Primary Side Startup Controller	14-SOIC	4.48	3.60	3.28
UCC3961N	296-11564-5-ND	Adv. Primary Side Startup Controller	14-Dip	4.48	3.60	3.28
UCC25600D	296-23976-5-ND	High Perf. Resonant Mode Controller	8-SOIC	2.64	2.13	1.92
UCC25701D	296-11363-5-ND	Advanced Voltage-Mode PWM	14-SOIC	9.25	7.59	6.85
UCC25701N	296-11364-5-ND	Advanced Voltage-Mode PWM	14-Dip	9.25	7.59	6.85
UCC25701PW	296-11365-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	9.38	7.69	6.94
UCC25702D	296-12194-5-ND	Advanced Voltage-Mode PWM	14-SOIC	9.25	7.59	6.85
UCC25702N	296-11366-5-ND	Advanced Voltage-Mode PWM	14-Dip	9.25	7.59	6.85
UCC25702PW	296-11367-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	9.38	7.69	6.94
UCC25705D	296-11368-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.94	2.37	2.16
UCC25705DGK	296-12175-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.94	2.37	2.16
UCC25705P	296-11369-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.94	2.37	2.16
UCC25706D	296-11370-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.94	2.37	2.16
UCC25706DGK	296-11371-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.94	2.37	2.16
UCC25706P	296-12114-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.94	2.37	2.16
UCC28019AD	296-24543-5-ND	CCM PFC Controller* ***NEW!***	8-SOIC	2.79	2.25	2.03
UCC28019ADR	296-25424-1-ND	CCM PFC Controller* ***NEW!***	8-SOIC	2.63	2.03	1.84
UCC28019ADR	296-25424-2-ND	CCM PFC Controller* ***NEW!***	8-SOIC	2531.25/2,500		
UCC28019AP	296-25425-5-ND	CCM PFC Controller* ***NEW!***	8-PDip	2.79	2.25	2.03
UCC28019DR	296-21936-1-ND	CCM PFC Controller	8-SOIC	2.63	2.03	1.84
UCC28019DR	296-21936-2-ND	CCM PFC Controller	8-SOIC	2532.50/2,500		
UCC28019EVM	296-23116-ND	Evaluation Module for UCC28019	—	50.00	—	—
UCC28019P	296-21937-5-ND	CCM PFC Controller	8-Dip	2.79	2.25	2.03
UCC28050D	296-13708-5-ND	Transition-Mode PFC Controller	8-SOIC	2.80	2.25	2.05
UCC28050P	296-13709-5-ND	Transition-Mode PFC Controller	8-Dip	2.94	2.37	2.16
UCC28051D	296-15243-5-ND	Transition-Mode PFC Controller	8-SOIC	2.48	2.00	1.80
UCC28051DR	296-27158-1-ND	Transition-Mode PFC Controller* ***NEW!***	8-SOIC	2.28	1.76	1.60
UCC28051DR	296-27158-2-ND	Transition-Mode PFC Controller* ***NEW!***	8-SOIC	2195.00/2,500		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC28051EVM	296-19036-ND	Evaluation Module for UCC28051	—	101.00	—	—
UCC28051P	296-15224-5-ND	Transition-Mode PFC Controller	8-Dip	2.64	2.13	1.92
UCC28061DR	296-23558-1-ND	Natural Interleaving Transition-Mode PFC Controller	16-SOIC	3.30	2.70	2.42
UCC28061DR	296-23558-2-ND	Natural Interleaving Transition-Mode PFC Controller	16-SOIC	3657.50/2,500		
UCC28070DWR	296-24605-1-ND	CCM PFC Controller* ***NEW!***	20-SOIC	5.85	4.78	4.29
UCC28070DWR	296-24605-2-ND	CCM PFC Controller* ***NEW!***	20-SOIC	5187.00/2,000		
UCC28083D	296-13676-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.92	3.15	2.87
UCC28083P	296-13677-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.92	3.15	2.87
UCC28083PW	296-14333-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.92	3.15	2.87
UCC28084D	296-13678-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.92	3.15	2.87
UCC28084P	296-13679-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.92	3.15	2.87
UCC28084PW	296-14334-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.92	3.15	2.87
UCC28085D	296-13680-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.22	2.59	2.36
UCC28085P	296-13681-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.22	2.59	2.36
UCC28085PW	296-14335-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.22	2.59	2.36
UCC28086D	296-13682-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.92	3.15	2.87
UCC28086P	296-13683-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.92	3.15	2.87
UCC28086PW	296-15690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.92	3.15	2.87
UCC28089D	296-17461-5-ND	Primary-Side Push-Pull Oscillator	8-SOIC	2.48	2.00	1.80
UCC28220D	296-15755-5-ND	Interleaved Dual PWM Controller	16-SOIC	5.32	4.28	3.90
UCC28220PW	296-15756-5-ND	Interleaved Dual PWM Controller	16-TSSOP	5.32	4.28	3.90
UCC28220QDRQ1	296-24892-1-ND	Interleaved Dual PWM Cont.* ***NEW!***	16-SOIC	5.55	4.54	4.07
UCC28220QDRQ1	296-24892-2-ND	Interleaved Dual PWM Cont.* ***NEW!***	16-SOIC	6151.25/2,500		
UCC28221D	296-15757-5-ND	Interleaved Dual PWM Controller	16-SOIC	5.60	4.50	4.10
UCC28221PW	296-15758-5-ND	Interleaved Dual PWM Controller	20-TSSOP	5.60	4.50	4.10
UCC28510DW	296-14218-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28510N	296-14219-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28511DW	296-14220-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28511N	296-14221-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28512DW	296-14222-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28512N	296-14223-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28513DW	296-14224-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28513N	296-14225-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28514DW	296-14226-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28514EVM	296-19040-ND	Evaluation Module for UCC28514	—	101.00	—	—
UCC28514N	296-14227-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28515DW	296-14228-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28515N	296-14229-5-ND	PFC/PWM Combination Controller	20-Dip	6.02	4.84	4.41
UCC28516DW	296-14230-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28517DW	296-14232-5-ND	PFC/PWM Combination Controller	20-SOIC	6.02	4.84	4.41
UCC28517EVM	296-19041-ND	Evaluation Module for UCC28517	—	49.38	—	—
UCC28521DW	296-18040-5-ND	Advanced PFC/PWM Controller	20-SOIC	6.02	4.84	4.41
UCC28521EVM	296-21209-ND	Evaluation Module for UCC28521	—	101.00	—	—
UCC28528DW	296-18041-5-ND	Advanced PFC/PWM Controller	20-SOIC	6.02	4.84	4.41
UCC28528EVM	296-21210-ND	Evaluation Module for UCC28528	—	101.00	—	—
UCC28600D	296-19799-5-ND	Quasi-Resonant Flyback Green Mode Controller	8-SOIC	1.68	1.35	1.18
UCC28600EVM	296-23117-ND	Evaluation Module for UCC28600	—	101.00	—	—
UCC28610DR	296-25263-1-ND	Green-Mode PWM Flyback Controller* ***NEW!***	8-SOIC	2.63	2.03	1.84
UCC28610DR	296-25263-2-ND	Green-Mode PWM Flyback Controller* ***NEW!***	8-SOIC	2532.50/2,500		
UCC28610P	296-25264-5-ND	Green-Mode PWM Flyback Controller* ***NEW!***	8-Dip	2.79	2.25	2.03
UCC29002D	296-13024-5-ND	Advanced Load Share Controller	8-SOIC	3.36	2.70	2.46
UCC29002DGK	296-13025-5-ND	Advanced Load Share Controller	8-MSOP	3.36	2.70	2.46
UCC29002P	296-13026-5-ND	Advanced Load Share Controller	8-Dip	3.36	2.70	2.46
UCC29421N	296-2538-5-ND	Multimode High-Freq. PWM Controller	16-Dip	7.13	5.85	5.28
UCC29421PW	296-12394-5-ND	Multimode High-Freq. Sync. Controller	16-TSSOP	7.45	6.11	5.52
UCC29422N	296-2539-5-ND	Multimode High-Freq. PWM Controller	16-Dip	6.02	4.84	4.41
UCC35701D	296-11425-5-ND	Advanced Voltage-Mode PWM	14-SOIC	8.88	7.28	6.57
UCC35701N	296-11426-5-ND	Advanced Voltage-Mode PWM	14-Dip	8.88	7.28	6.57
UCC35701PW	296-11427-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	9.00	7.38	6.66
UCC35702D	296-11428-5-ND	Advanced Voltage-Mode PWM	14-SOIC	8.88	7.28	6.57
UCC35702N	296-11429-5-ND	Advanced Voltage-Mode PWM	14-Dip	8.88	7.28	6.57
UCC35702PW	296-11430-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	9.00	7.38	6.66
UCC35705D	296-11431-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.79	2.25	2.03
UCC35705DGK	296-11683-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.79	2.25	2.03
UCC35705P	296-11432-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.79	2.25	2.03
UCC35706D	296-11433-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.79	2.25	2.03
UCC35706DGK	296-11434-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.79	2.25	2.03
UCC35706P	296-15320-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.79	2.25	2.03
UCC28070PW	296-23629-5-ND	Interleaving Continuous Conduction Mode PFC Controller	20-TSSOP	6.58	5.29	4.82
UCC38050D	296-13710-5-ND	Transition Mode PFC Controller	8-SOIC	2.79	2.25	2.03
UCC38050EVM	296-19044-ND	Evaluation Module for UCC38050	—	101.00	—	—
UCC38050P	296-13711-5-ND	Transition Mode PFC Controller	8-Dip	2.95	2.38	2.14
UCC38051D	296-15225-5-ND	Transition Mode PFC Controller	8-SOIC	2.33	1.88	1.69
UCC38051P	296-15226-5-ND	Transition Mode PFC Controller	8-Dip	2.48	2.00	1.80
UCC38083D	296-13690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.78	3.04	2.77
UCC38083P	296-13691-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.78	3.04	2.77
UCC38083PW	296-14336-5-ND	Current Mode Push-Pull PWM Controller with Slope Compensation	8-TSSOP	3.78	3.04	2.77
UCC38084D	296-13692-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.78	3.04	2.77
UCC38084P	296-13693-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.78	3.04	2.77
UCC38084PW	296-14337-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.78	3.04	2.77
UCC38085D	296-13694-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.08	2.48	2.26

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Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
UCC38085P	296-13695-5-ND	Current Mode Push-Pull PWM Cont. with Prog. Slope Compensation	8-Dip	3.08	2.48	2.26
UCC38085PW	296-14338-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	3.08	2.48	2.26
UCC38086D	296-13696-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	3.78	3.04	2.77
UCC38086P	296-13697-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	3.78	3.04	2.77
UCC38500DW	296-11518-5-ND	BiCMOS Combined PFC/PWM Cont.	20-SOIC	7.13	5.85	5.28
UCC38500EVM	296-11519-ND	Evaluation Module for UCC38500	—	101.00	—	—
UCC38500N	296-11520-5-ND	BiCMOS Combined PFC/PWM Cont.	20-Dip	7.13	5.85	5.28
UCC38501DW	296-11521-5-ND	BiCMOS Combined PFC/PWM Cont.	20-SOIC	7.13	5.85	5.28
UCC38501N	296-11522-5-ND	BiCMOS Combined PFC/PWM Cont.	20-Dip	7.13	5.85	5.28
UCC38502DW	296-12404-5-ND	BiCMOS Combined PFC/PWM Cont.	20-SOIC	7.13	5.85	5.28
UCC38502N	296-11523-5-ND	BiCMOS Combined PFC/PWM Cont.	20-Dip	7.13	5.85	5.28
UCC38503DW	296-12046-5-ND	BiCMOS Combined PFC/PWM Cont.	20-SOIC	7.13	5.85	5.28
UCC38503N	296-11524-5-ND	BiCMOS Combined PFC/PWM Cont.	20-Dip	7.13	5.85	5.28
UCC39002D	296-13027-5-ND	Advanced Load Share Controller	8-SOIC	3.22	2.59	2.36
UCC39002EVM	296-19045-ND	Evaluation Module for UCC39002	—	101.00	—	—
UCC39002P	296-13029-5-ND	Advanced Load Share Controller	8-Dip	3.22	2.59	2.36
UCC39421N	296-11545-5-ND	Multimode Hi-Freq. PWM Controller	16-Dip	7.33	6.01	5.43
UCC39421PW	296-2553-5-ND	Multimode Hi-Freq. PWM Controller	16-TSSOP	7.33	6.01	5.43
UCC39422N	296-11546-5-ND	Multimode Hi-Freq. PWM Controller	20-Dip	8.50	6.97	6.29
UCC39422PW	296-2554-5-ND	Multimode Hi-Freq. PWM Controller	20-TSSOP	8.50	6.97	6.29
UCD3020RGZT	296-25747-1-ND	Digital Power Controller* ***NEW!***	48-VQFN	7.55	6.27	5.70
UCD3020RGZT	296-25747-2-ND	Digital Power Controller* ***NEW!***	48-VQFN	1211.25/250		
UCD3028RHAT	296-25748-1-ND	Digital Power Controller* ***NEW!***	40-VQFN	7.16	5.94	5.40
UCD3028RHAT	296-25748-2-ND	Digital Power Controller* ***NEW!***	40-VQFN	1147.50/250		
UCD3040RGCT	296-25749-1-ND	Digital Power Controller* ***NEW!***	64-VQFN	11.53	9.57	8.70
UCD3040RGCT	296-25749-2-ND	Digital Power Controller* ***NEW!***	64-VQFN	1848.75/250		
UCD8220PWP	296-18592-5-ND	Digitally Managed Push-Pull Analog PWM Controller	16-HTSSOP	5.46	4.39	4.00
UCD9080RHBRG4	296-24969-1-ND	8-Ch. Pwr. Supply Sequencer/ Monitor* ***NEW!***	32-QFN	7.82	6.49	5.90
UCD9080RHBRG4	296-24969-2-ND	8-Ch. Pwr. Supply Sequencer/ Monitor* ***NEW!***	32-QFN	11505.00/3,000		
UCD9081RHBR	296-23788-1-ND	8-Ch. Pwr. Supply Sequencer/Monitor	32-QFN	7.82	6.49	5.90
UCD9081RHBR	296-23788-2-ND	8-Ch. Pwr. Supply Sequencer/Monitor	32-QFN	11505.00/3,000		
UCD9220RGZR	296-24230-1-ND	Digital PWM System Cont.* ***NEW!***	48-QFN	7.02	5.83	5.30
UCD9220RGZR	296-24230-2-ND	Digital PWM System Cont.* ***NEW!***	48-QFN	8612.50/2,500		
UCD9224RGZT	296-25812-1-ND	Digital PWM System Ctrlr.* ***NEW!***	48-VQFN	8.08	6.71	6.10
UCD9224RGZT	296-25812-2-ND	Digital PWM System Ctrlr.* ***NEW!***	48-VQFN	1296.25/250		
UCD9240PFC	296-23690-ND	Digital PWM System Controller	80-TQFP	12.65	10.64	9.78
UCD9240RGCT	296-24128-1-ND	Digital PWM System Controller	64-VQFN	11.96	10.14	9.36
UCD9240RGCT	296-24128-2-ND	Digital PWM System Controller	64-VQFN	2015.00/250		
UCD9246RGCT	296-25721-1-ND	Digital PWM System Ctrlr.* ***NEW!***	64-VQFN	11.96	10.14	9.36
UCD9246RGCT	296-25721-2-ND	Digital PWM System Ctrlr.* ***NEW!***	64-VQFN	2015.00/250		
UCD9248PFC	296-25804-ND	Digital PWM System Ctrlr.* ***NEW!***	80-TQFP	12.87	10.83	9.95
UCD90120RGCT	296-25124-1-ND	12-Ch. Power Supply Sequencer/ System Monitor* ***NEW!***	64-VQFN	13.11	11.12	10.26
UCD90120RGCT	296-25124-2-ND	12-Ch. Power Supply Sequencer/ System Monitor* ***NEW!***	64-VQFN	2208.75/250		
UCD90124RGCT	296-25837-1-ND	12-Rail Sequencer/Monitor* ***NEW!***	64-VQFN	17.14	14.53	13.41
UCD90124RGCT	296-25837-2-ND	12-Rail Sequencer/Monitor* ***NEW!***	64-VQFN	2887.00/250		
		Schottky Diode Arrays				
UC2610N	296-11161-5-ND	Dual Schottky Diode Bridge	8-Dip	8.25	6.77	6.11
UC3610DW	296-11230-5-ND	Dual Schottky Diode Bridge	16-SOIC	7.00	5.74	5.18
UC3610N	296-11231-5-ND	Dual Schottky Diode Bridge	8-Dip	7.00	5.74	5.18
UC3611DW	296-11233-5-ND	Quad Schottky Diode Array	16-SOIC	6.44	5.18	4.72
UC3611N	296-11234-5-ND	Quad Schottky Diode Array	8-Dip	6.44	5.18	4.72
		Voltage References				
LM285D-1-2	296-9521-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.73	.57	.50
LM285D-2-5	296-9522-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.73	.57	.50
LM285DR-1-2	296-26087-1-ND	1.2V Micropower Voltage Reference* ***NEW!***	8-SOIC	.68	.53	.47
LM285DR-1-2	296-26087-2-ND	1.2V Micropower Voltage Reference* ***NEW!***	8-SOIC	557.50/2,500		
LM285DR-2-5	296-14592-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.68	.53	.47
LM285LP-1-2	296-9523-5-ND	1.2V Micropower Voltage Reference	TO-92	.73	.57	.50
LM285LP-2-5	296-9524-5-ND	2.5V Micropower Voltage Reference	TO-92	.73	.57	.50
LM336BD-2-5	296-9547-5-ND	2.5V Precision Voltage Reference	8-SOIC	.92	.74	.65
LM336BLP-2-5	296-9548-5-ND	2.5V Precision Voltage Reference	TO-92	.88	.69	.60
LM336D-2-5	296-9549-5-ND	2.5V Precision Voltage Reference	8-SOIC	2.17	1.75	1.58
LM385BD-1-2	296-9556-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.96	.75	.65
LM385BD-2-5	296-9557-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.96	.75	.65
LM385BDR-1-2	296-14603-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.88	.68	.60
LM385BDR-1-2	296-14603-2-ND	2.5V Micropower Voltage Reference	8-SOIC	725.00/2,500		
LM385BDR-2-5	296-26103-1-ND	2.5V Micropower Volt. Ref.* ***NEW!***	8-SOIC	.88	.68	.60
LM385BDR-2-5	296-26103-2-ND	2.5V Micropower Volt. Ref.* ***NEW!***	8-SOIC	725.00/2,500		
LM385BLP-1-2	296-9558-5-ND	1.2V Micropower Voltage Reference	TO-92	.80	.62	.54
LM385BLP-2-5	296-9559-5-ND	2.5V Micropower Voltage Reference	TO-92	.80	.62	.54
LM385BPWR-2-5	296-13074-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.88	.68	.60
LM385D-1-2	296-9560-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.67	.53	.46
LM385D-2-5	296-9561-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.67	.53	.46
LM385DR-1-2	296-26104-1-ND	1.2V Micropower Volt. Ref.* ***NEW!***	8-SOIC	.77	.54	.47
LM385DR-1-2	296-26104-2-ND	1.2V Micropower Volt. Ref.* ***NEW!***	8-SOIC	542.50/2,500		
LM385LP-1-2	296-9562-5-ND	1.2V Micropower Voltage Reference	TO-92	.73	.57	.50
LM385LP-2-5	296-9563-5-ND	2.5V Micropower Voltage Reference	TO-92	.67	.49	.42
LM385PWR-1-2	296-13075-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.77	.54	.47
LM385PWR-1-2	296-13075-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	434.00/2,000		
LM4040A20IDBZR	296-20857-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040A20IDBZR	296-20857-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	3990.00/3,000		
LM4040A20IDCKR	296-20858-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	3.00	2.45	2.20
LM4040A25IDBZR	296-20859-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040A25IDBZR	296-20859-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	3990.00/3,000		
LM4040A25IDCKR	296-20860-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	3.00	2.45	2.20
LM4040A30IDBZR	296-20861-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040A30IDBZR	296-20861-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	3990.00/3,000		
LM4040A30IDCKR	296-20862-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	3.00	2.45	2.20
LM4040A30IDCKR	296-20862-2-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	3990.00/3,000		
LM4040A41IDBZR	296-20863-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040A41IDBZR	296-20863-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	3990.00/3,000		
LM4040A41IDCKR	296-20864-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	3.00	2.45	2.20
LM4040A50IDBZR	296-20865-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040A50IDBZR	296-20865-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	3990.00/3,000		
LM4040A50IDCKR	296-20866-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	3.00	2.45	2.20
LM4040A82IDBZR	296-20867-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23-3	3.00	2.45	2.20
LM4040B20IDBZR	296-20870-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47
LM4040B20IDBZR	296-20870-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	2430.00/3,000		
LM4040B25IDBZR	296-20872-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47
LM4040B25IDBZR	296-20872-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2430.00/3,000		
LM4040B30IDBZR	296-20874-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47
LM4040B41IDBZR	296-20876-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47
LM4040B50IDBZR	296-20878-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47
LM4040B50IDBZR	296-20878-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2430.00/3,000		
LM4040C20IDBZR	296-20884-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.01	.79	.69
LM4040C20IDBZR	296-20884-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	1000.50/3,000		
LM4040C20IDCKR	296-20885-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	.95	.75	.68
LM4040C25IDBZR	296-17937-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	.96	.76	.69
LM4040C25IDBZR	296-17937-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1062.00/3,000		
LM4040C25IDCKR	296-17938-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.01	.79	.69
LM4040C25IDCKR	296-17938-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1002.00/3,000		
LM4040C25QDBZR	296-17939-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	.96	.76	.69
LM4040C25QDBZR	296-17939-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1062.00/3,000		
LM4040C30IDBZR	296-20887-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.01	.79	.69
LM4040C30IDBZR	296-20887-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	1000.50/3,000		
LM4040C30IDCKR	296-20888-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	.95	.75	.68
LM4040C30QDBZR	296-20889-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.33	1.05	.95
LM4040C41IDCKR	296-20891-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	.95	.75	.68
LM4040C50IDCKR	296-20893-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	.95	.75	.68
LM4040C50ILPR	296-21581-1-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	1.01	.79	.69
LM4040C50QDBZR	296-20894-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.33	1.05	.95
LM4040D10IDBZR	296-20897-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4040D20IDBZR	296-20899-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4040D20IDBZR	296-20899-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23-3	783.00/3,000		
LM4040D20IDCKR	296-20900-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	.88	.68	.60
LM4040D25IDBZR	296-17940-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	.87	.68	.60
LM4040D25IDBZR	296-17940-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	861.00/3,000		
LM4040D25IDBZT	296-26109-1-ND	2.5V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	1.32	1.05	.94
LM4040D25IDBZT	296-26109-2-ND	2.5V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	187.00/250		
LM4040D25IDCKR	296-17941-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	.79	.62	.54
LM4040D25IDCKR	296-17941-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	783.00/3,000		
LM4040D25QDBZR	296-17942-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	.87	.68	.60
LM4040D30IDBZR	296-19437-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4040D30IDBZR	296-19437-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23-3	783.00/3,000		
LM4040D41IDBZR	296-20904-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4040D50IDBZR	296-20905-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4040D50IDCKR	296-20906-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	.88	.68	.60
LM4040D50ILPR	296-21584-1-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	.79	.62	.54
LM4041A12IDBZR	296-20910-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.10	1.62	1.47

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LM4041A12IDCKR	296-20911-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2.28	1.76	1.60
LM4041B12IDBZR	296-20912-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.56	1.23	1.11
LM4041B12IDCKR	296-20913-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.63	1.29	1.17
LM4041B12IDCKR	296-20913-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1806.00/3,000		
LM4041BIDBZR	296-20914-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1.56	1.23	1.11
LM4041BIDBZR	296-20914-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1722.00/3,000		
LM4041C12IDBZR	296-20916-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.01	.79	.69
LM4041C12IDBZR	296-20916-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1000.50/3,000		
LM4041C12IDCKR	296-20917-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	.95	.75	.68
LM4041C12IDCKR	296-20917-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1050.00/3,000		
LM4041CIDBZR	296-17943-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	.96	.76	.69
LM4041CIDBZR	296-17943-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1062.00/3,000		
LM4041CIDCKR	296-17944-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1.01	.79	.69
LM4041CIDCKR	296-17944-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1002.00/3,000		
LM4041D12IDBZR	296-20919-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	.79	.62	.54
LM4041D12IDCKR	296-20920-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	.88	.68	.60
LM4041D12IDCKR	296-20920-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	870.00/3,000		
LM4041DIDBZR	296-17946-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	.87	.68	.60
LM4041DIDBZR	296-17946-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	861.00/3,000		
LM4041DIDCKR	296-17947-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	.79	.62	.54
LM4041DIDCKR	296-17947-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	783.00/3,000		
LM4041DQDBZR	296-17948-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	.87	.68	.60
LT1004CD-1-2	296-9580-5-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	1.18	.95	.83
LT1004CD-2-5	296-9581-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	1.18	.95	.83
LT1004CDR-1-2	296-14610-1-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	1.06	.84	.76
LT1004CDR-1-2	296-14610-2-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	980.00/2,500		
LT1004CLP-2-5	296-9583-5-ND	2.5V Micropower Integrated Voltage Reference	TO-92	.98	.79	.69
LT1004CPWR-2-5	296-13078-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1.06	.84	.76
LT1004ID-1-2	296-26131-5-ND	1.2V Micropower Integrated Voltage Reference* ***NEW!***	8-SOIC	.98	.79	.69
LT1004ID-2-5	296-9584-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	1.18	.95	.83
LT1004IPWR-1-2	296-13079-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1.06	.84	.76
LT1004IPWR-1-2	296-13079-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	784.00/2,000		
LT1004IPWR-2-5	296-13080-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1.06	.84	.76
LT1004IPWR-2-5	296-13080-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	784.00/2,000		
LT1009CD	296-26132-5-ND	2.5V Integrated Ref. Circuit* ***NEW!***	8-SOIC	1.34	1.08	.95
LT1009CDR	296-14611-1-ND	2.5V Integrated Reference Circuit	8-SOIC	1.22	.96	.87
LT1009CDR	296-14611-2-ND	2.5V Integrated Reference Circuit	8-SOIC	1120.00/2,500		
LT1009CLP	296-9585-5-ND	2.5V Integrated Reference Circuit	TO-92	1.12	.90	.79
LT1009CLPR	296-14612-1-ND	2.5V Integrated Reference Circuit	TO-92	1.22	.96	.87
LT1009CLPR	296-14612-2-ND	2.5V Integrated Reference Circuit	TO-92	896.00/2,000		
LT1009CPWR	296-13081-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	1.22	.96	.87
LT1009CPWR	296-13081-2-ND	2.5V Integrated Reference Circuit	8-TSSOP	896.00/2,000		
LT1009ID	296-9586-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.34	1.08	.95
LT1009IDR	296-14613-1-ND	2.5V Integrated Reference Circuit	8-SOIC	1.22	.96	.87
LT1009IDR	296-14613-2-ND	2.5V Integrated Reference Circuit	8-SOIC	1120.00/2,500		
LT1009ILP	296-9587-5-ND	2.5V Integrated Reference Circuit	TO-92	1.34	1.08	.95
LT1009ILPR	296-14614-1-ND	2.5V Integrated Reference Circuit	TO-92	1.14	.91	.82
LT1009IPWR	296-15734-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	1.22	.96	.87
REF02AP	296-12732-5-ND	+5V Precision Voltage Reference	8-Dip	3.86	3.11	2.83
REF02AU	REF02AU-ND	+5V Voltage Reference	8-SOIC	4.65	3.74	3.41
REF02BP	REF02BP-ND	+5V Precision Voltage Reference	8-Dip	6.30	5.17	4.67
REF02BU	REF02BU-ND	+5V Voltage Reference	8-SOIC	6.24	5.02	4.58
REF102AP	REF102AP-ND	+10V Precision Voltage Reference	8-Dip	4.90	3.94	3.59
REF102AU	REF102AU-ND	+10V Precision Voltage Reference	8-SOIC	5.88	4.73	4.31
REF102BP	REF102BP-ND	+10V Precision Voltage Reference	8-Dip	8.25	6.77	6.11
REF102BU	296-17004-5-ND	+10V Precision Voltage Reference	8-SOIC	8.25	6.77	6.11
REF102CP	296-17005-5-ND	+10V Precision Voltage Reference	8-Dip	11.25	9.23	8.33
REF102CU	296-17006-5-ND	+10V Precision Voltage Reference	8-SOIC	12.13	9.95	8.98
REF200AU	REF200AU-ND	Dual Current Source/Current Sink	8-SOIC	7.75	6.36	5.74
REF200AUE4	296-26320-5-ND	Dual Current Source/Current Sink* ***NEW!***	8-SOIC	7.75	6.36	5.74
REF1004C-1.2	REF1004C-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	3.47	2.79	2.55
REF1004C-2.5	REF1004C-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	4.12	3.31	3.02
REF1004I-1.2	REF1004I-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	6.65	5.46	4.93
REF1004I-2.5	REF1004I-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	6.78	5.45	4.97
REF2912AIDBZT	296-13480-1-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2912AIDBZT	296-13480-2-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		
REF2920AIDBZT	296-13481-1-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2920AIDBZT	296-13481-2-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
REF2925AIDBZT	296-13482-1-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2925AIDBZT	296-13482-2-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		
REF2930AIDBZT	296-13483-1-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2930AIDBZT	296-13483-2-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		
REF2933AIDBZT	296-13484-1-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2933AIDBZT	296-13484-2-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		
REF2940AIDBZT	296-13485-1-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	2.10	1.62	1.47
REF2940AIDBZT	296-13485-2-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23-3	300.00/250		
REF3012AIDBZT	REF3012AIDBZTCT-ND	1.25V, Low Power CMOS Volt. Ref.	SOT-23-3	2.45	1.89	1.72
REF3012AIDBZT	REF3012AIDBZTTR-ND	1.25V, Low Power CMOS Volt. Ref.	SOT-23-3	350.00/250		
REF3020AIDBZR	296-26321-1-ND	2.048V, LP CMOS Volt. Ref.* ***NEW!***	SOT-23-3	2.10	1.62	1.47
REF3020AIDBZR	296-26321-2-ND	2.048V, LP CMOS Volt. Ref.* ***NEW!***	SOT-23-3	2430.00/3,000		
REF3020AIDBZT	REF3020AIDBZTCT-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23-3	2.45	1.89	1.72
REF3025AIDBZT	REF3025AIDBZTCT-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23-3	2.45	1.89	1.72
REF3025AIDBZT	REF3025AIDBZTTR-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23-3	350.00/250		
REF3030AIDBZR	296-26323-1-ND	3V, LP CMOS Volt. Ref.* ***NEW!***	SOT-23-3	2.10	1.62	1.47
REF3030AIDBZR	296-26323-2-ND	3V, LP CMOS Volt. Ref.* ***NEW!***	SOT-23-3	2430.00/3,000		
REF3030AIDBZT	296-18517-1-ND	3V, CMOS Voltage Reference	SOT-23-3	2.45	1.89	1.72
REF3030AIDBZT	296-18517-2-ND	3V, CMOS Voltage Reference	SOT-23-3	350.00/250		
REF3033AIDBZT	REF3033AIDBZTCT-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23-3	2.45	1.89	1.72
REF3033AIDBZT	REF3033AIDBZTTR-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23-3	350.00/250		
REF3040AIDBZT	REF3040AIDBZTCT-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23-3	2.45	1.89	1.72
REF3040AIDBZT	REF3040AIDBZTTR-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23-3	350.00/250		
REF3112AIDBZT	296-18518-1-ND	1.25V, CMOS Voltage Reference	SOT-23-3	3.45	2.82	2.53
REF3120AIDBZT	296-17927-1-ND	2.048V, 100µA, Voltage Reference	SOT-23-3	3.45	2.82	2.53
REF3120AIDBZT	296-17927-2-ND	2.048V, 100µA, Voltage Reference	SOT-23-3	532.00/250		
REF3125AIDBZR	296-26325-1-ND	2.5V, 100µA, Voltage Ref.* ***NEW!***	SOT-23-3	3.47	2.68	2.43
REF3125AIDBZR	296-26325-2-ND	2.5V, 100µA, Voltage Ref.* ***NEW!***	SOT-23-3	4011.00/3,000		
REF3130AIDBZT	296-17098-1-ND	3V, 100µA Voltage Reference	SOT-23-3	3.45	2.82	2.53
REF3130AIDBZT	296-17098-2-ND	3V, 100µA Voltage Reference	SOT-23-3	532.00/250		
REF3133AIDBZT	296-18519-1-ND	3.3V, CMOS Voltage Reference	SOT-23-3	3.45	2.82	2.53
REF3133AIDBZT	296-18519-2-ND	3.3V, CMOS Voltage Reference	SOT-23-3	532.00/250		
REF3140AIDBZT	296-17234-1-ND	4.096V, LP CMOS Voltage Reference	SOT-23-3	3.45	2.82	2.53
REF3140AIDBZT	296-17234-2-ND	4.096V, LP CMOS Voltage Reference	SOT-23-3	532.00/250		
REF3225AIDBVT	296-18227-1-ND	2.5V, Prec. LDO Voltage Ref.* ***NEW!***	SOT-23-6	6.00	4.90	4.40
REF3225AIDBVT	296-18227-2-ND	2.5V, Prec. LDO Voltage Ref.* ***NEW!***	SOT-23-6	925.00/250		
REF3240AIDBVT	296-18230-1-ND	4.096V Prec. LDO Volt. Ref.* ***NEW!***	SOT-23-6	6.00	4.90	4.40
REF3240AIDBVT	296-18230-2-ND	4.096V Prec. LDO Volt. Ref.* ***NEW!***	SOT-23-6	925.00/250		
REF3312AIDBZT	296-22635-1-ND	1.25V, LP, Prec. LDO Volt. Reference	SOT-23	3.00	2.45	2.20
REF3312AIDBZT	296-22635-2-ND	1.25V, LP, Prec. LDO Volt. Reference	SOT-23	462.50/250		
REF3312AIDCKR	296-22636-1-ND	1.25V, LP, Prec. LDO Volt. Reference	SC70	2.98	2.30	2.09
REF3312AIDCKR	296-22636-2-ND	1.25V, LP, Prec. LDO Volt. Reference	SC70	3442.50/3,000		
REF3318AIDBZT	296-22637-1-ND	1.8V, LP, Prec. LDO Volt. Reference	SOT-23	3.00	2.45	2.20
REF3318AIDBZT	296-22637-2-ND	1.8V, LP, Prec. LDO Volt. Reference	SOT-23	462.50/250		
REF3318AIDCKT	296-22638-1-ND	1.8V, Low Power, Precision LDO Voltage Reference	SC70	3.00	2.45	2.20
REF3318AIDCKT	296-22638-2-ND	1.8V, Low Power, Precision LDO Voltage Reference	SC70	462.50/250		
REF3320AIDBZT	296-22639-1-ND	2.048V, Low Power, Precision LDO Voltage Reference	SOT-23	3.00	2.45	2.20
REF3320AIDBZT	296-22639-2-ND	2.048V, Low Power, Precision LDO Voltage Reference	SOT-23	462.50/250		
REF3320AIDCKT	296-22640-1-ND	2.048V, Low Power, Precision LDO Voltage Reference	SC70	3.00	2.45	2.20
REF3320AIDCKT	296-22640-2-ND	2.048V, Low Power, Precision LDO Voltage Reference	SC70	462.50/250		
REF3325AIDBZT	296-22641-1-ND	2.5V, Low Power, Precision LDO Voltage Reference	SOT-23	3.00	2.45	2.20
REF3325AIDBZT	296-22641-2-ND	2.5V, Low Power, Precision LDO Voltage Reference	SOT-23	462.50/250		
REF3325AIDCKT	296-22642-1-ND	2.5V, Low Power, Precision LDO Voltage Reference	SC70	3.00	2.45	2.20
REF3325AIDCKT	296-22642-2-ND	2.5V, Low Power, Precision LDO Voltage Reference	SC70	462.50/250		
REF3330AIDCKT	296-22644-1-ND	3V, Low Power, Precision LDO Voltage Reference	SC70	3.00	2.45	2.20
REF3330AIDCKT	296-22644-2-ND	3V, Low Power, Precision LDO Voltage Reference	SC70	462.50/250		
REF3333AIDBZR	296-22645-1-ND	3.3V, Low Power, Precision LDO Voltage Reference	SOT-23	2.98	2.30	2.09
REF3333AIDBZR	296-22645-2-ND	3.3V, Low Power, Precision LDO Voltage Reference	SOT-23	3442.50/3,000		
REF5010AID	296-24021-5-ND	10V, Low Noise, Very Low Drift, Precision Voltage Reference	8-SOIC	4.62	3.72	3.39
REF5010AIDGKT	296-24494-1-ND	10V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41
REF5010AIDGKT	296-24494-2-ND	10V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5010ID	296-24022-5-ND	10V, Low Noise, Very Low Drift, Precision Voltage Reference	8-SOIC	8.13	6.67	6.02
REF5010IDGKT	296-24495-1-ND	10V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5010IDGKT	296-24495-2-ND	10V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5020AID	296-22201-5-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5020AIDGKT	296-24496-1-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41
REF5020AIDGKT	296-24496-2-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5020ID	296-22202-5-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5020IDGKT	296-24497-1-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5020IDGKT	296-24497-2-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5025AID	296-22203-5-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5025AIDGKT	296-24498-1-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.)

POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REF5025AIDGKT	296-24498-2-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5025AQDRQ1	296-24222-1-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-SOIC	6.60	5.39	4.84
REF5025AQDRQ1	296-24222-2-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-SOIC	7315.00/2,500		
REF5025ID	296-22204-5-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5025IDGKT	296-24499-1-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5025IDGKT	296-24499-2-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5030AID	296-22205-5-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5030AIDGKT	296-24500-1-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41
REF5030AIDGKT	296-24500-2-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5030ID	296-22206-5-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5030IDGKT	296-24501-1-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5030IDGKT	296-24501-2-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5040AID	296-22207-5-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5040AIDGKT	296-24502-1-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41
REF5040AIDGKT	296-24502-2-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5040ID	296-22208-5-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5040IDGKT	296-24503-1-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5040IDGKT	296-24503-2-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5045AID	296-22209-5-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5045AIDGKT	296-24504-1-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	3.41
REF5045AIDGKT	296-24504-2-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5045ID	296-22210-5-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5045IDGKT	296-24505-1-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5045IDGKT	296-24505-2-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
REF5050AID	296-22211-5-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	4.62	3.72	3.39
REF5050AIDGKT	296-24506-1-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	4.65	3.80	4.65
REF5050AIDGKT	296-24506-2-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	717.00/250		
REF5050ID	296-22212-5-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference	8-SOIC	8.13	6.67	6.02
REF5050IDGKT	296-24507-1-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	8.35	6.93	6.30
REF5050IDGKT	296-24507-2-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference* ***NEW!***	8-MSOP	1338.75/250		
SN74GTL3004DCKR	296-24745-1-ND	Adjustable Voltage Reference* ***NEW!***	SC70-6	.66	.51	.45
SN74GTL3004DCKR	296-24745-2-ND	Adjustable Voltage Reference* ***NEW!***	SC70-6	652.50/3,000		
TL1431CD	296-10129-5-ND	Prec. Programmable Shunt Reference	8-SOIC	.46	.34	.29
TL1431CDR	296-10129-1-ND	Prec. Programmable Shunt Reference	8-SOIC	.58	.38	.32
TL1431CDR	296-10129-2-ND	Prec. Programmable Shunt Reference	8-SOIC	330.00/2,500		
TL1431CLP	296-10130-5-ND	Prec. Prog. Shunt Reference* ***NEW!***	TO-92-3	.46	.34	.29
TL1431CLPR	296-10130-1-ND	Prec. Programmable Shunt Reference	TO-92	.58	.38	.32
TL1431CLPR	296-10130-2-ND	Prec. Programmable Shunt Reference	TO-92	264.00/2,000		
TL1431CPWR	296-12607-1-ND	Prec. Programmable Shunt Reference	8-TSSOP	.58	.38	.32
TL1431CPWR	296-12607-2-ND	Prec. Programmable Shunt Reference	8-TSSOP	264.00/2,000		
TL1431MDREP	296-21550-1-ND	Prec. Programmable Shunt Reference	8-SOIC	3.22	2.49	2.26
TL1431MDREP	296-21550-2-ND	Prec. Programmable Shunt Reference	8-SOIC	3105.00/2,500		
TL1431QD	296-10131-5-ND	Prec. Programmable Shunt Reference	8-SOIC	.94	.76	.66
TL1431QDG4	296-22044-5-ND	Prec. Programmable Shunt Reference	8-SOIC	.94	.76	.66
TL1431QDREP	296-18135-1-ND	Prec. Programmable Shunt Reference	8-SOIC	1.86	1.47	1.33
TL1431QDREP	296-18135-2-ND	Prec. Programmable Shunt Reference	8-SOIC	1715.00/2,500		
TL1431QDRQ1	296-21093-1-ND	Prec. Programmable Shunt Reference	8-SOIC	1.00	.79	.71
TL1431QDRQ1	296-21093-2-ND	Prec. Programmable Shunt Reference	8-SOIC	917.50/2,500		
TL4050A10IDBZR	296-22779-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4050A10IDBZR	296-22779-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4050A10IDCKR	296-22780-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2.45	1.89	1.72
TL4050A10IDCKR	296-22780-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2835.00/3,000		
TL4050A10QDCKR	296-22782-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4050A10QDCKR	296-22782-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4050A25IDBZR	296-22783-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4050A25IDBZR	296-22783-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4050A25IDCKR	296-22784-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2.45	1.89	1.72
TL4050A25IDCKR	296-22784-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2835.00/3,000		
TL4050A25QDBZR	296-22785-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.45	1.89	1.72
TL4050A25QDBZR	296-22785-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2835.00/3,000		
TL4050A25QDCKR	296-22786-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4050A25QDCKR	296-22786-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4050A41IDBZR	296-22787-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4050A41IDBZR	296-22787-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4050A41IDCKR	296-22788-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2.45	1.89	1.72
TL4050A41IDCKR	296-22788-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2835.00/3,000		
TL4050A41QDBZR	296-22789-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.45	1.89	1.72
TL4050A41QDBZR	296-22789-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2835.00/3,000		
TL4050A41QDCKR	296-22790-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4050A41QDCKR	296-22790-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4050A50IDBZR	296-22791-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4050A50IDBZR	296-22791-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4050A50QDBZR	296-22793-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.45	1.89	1.72
TL4050A50QDBZR	296-22793-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2835.00/3,000		
TL4050A50QDCKR	296-22794-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4050A50QDCKR	296-22794-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4050B10IDBZR	296-22795-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.56	1.23	1.11
TL4050B10IDBZR	296-22795-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1722.00/3,000		
TL4050B10IDCKR	296-22796-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1.71	1.35	1.22
TL4050B10IDCKR	296-22796-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1890.00/3,000		
TL4050B10QDBZR	296-22797-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4050B10QDBZR	296-22797-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4050B25IDBZR	296-22799-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.56	1.23	1.11
TL4050B25IDBZR	296-22799-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1722.00/3,000		
TL4050B25IDCKR	296-22800-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.71	1.35	1.22
TL4050B25IDCKR	296-22800-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1890.00/3,000		
TL4050B25QDBZR	296-22801-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4050B25QDBZR	296-22801-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4050B25QDCKR	296-22802-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.49	1.35
TL4050B25QDCKR	296-22802-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2227.50/3,000		
TL4050B25QDCKRQ1	296-25811-1-ND	2.5V Precision Micropower Shunt Voltage Reference* ***NEW!***	SC70-5	1.79	1.42	1.28
TL4050B25QDCKRQ1	296-25811-2-ND	2.5V Precision Micropower Shunt Voltage Reference* ***NEW!***	SC70-5	1983.00/3,000		
TL4050B41IDBZR	296-22803-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.56	1.23	1.11
TL4050B41IDBZR	296-22803-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	1722.00/3,000		
TL4050B41IDCKR	296-22804-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.71	1.35	1.22
TL4050B41IDCKR	296-22804-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1890.00/3,000		
TL4050B41QDBZR	296-22805-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4050B41QDBZR	296-22805-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4050B41QDCKR	296-22806-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.49	1.35
TL4050B41QDCKR	296-22806-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2227.50/3,000		
TL4050B50IDCKR	296-22808-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.71	1.35	1.22
TL4050B50IDCKR	296-22808-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1890.00/3,000		
TL4050B50QDBZR	296-22809-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4050B50QDBZR	296-22809-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4050B50QDCKR	296-22810-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.49	1.35
TL4050B50QDCKR	296-22810-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	2227.50/3,000		
TL4050C10IDBZR	296-22811-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.25	.99	.90
TL4050C10IDBZR	296-22811-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1386.00/3,000		
TL4050C10IDCKR	296-22812-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1.37	1.08	.98
TL4050C10IDCKR	296-22812-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1512.00/3,000		
TL4050C10QDBZR	296-22813-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.67	1.32	1.19
TL4050C10QDBZR	296-22813-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23-3	1848.00/3,000		
TL4050C10QDCKR	296-22814-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1.82	1.44	1.30
TL4050C10QDCKR	296-22814-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2016.00/3,000		
TL4050C20QDBZRQ1	296-24672-1-ND	2.048V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	1.86	1.47	1.33
TL4050C20QDBZRQ1	296-24672-2-ND	2.048V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	2058.00/3,000		
TL4050C50QDBZRQ1	296-24862-1-ND	5.0V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	1.44	1.14	1.03

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL4050C50QDBZRQ1	296-24862-2-ND	5.0V Precision Micropower Shunt Voltage Reference* ***NEW!***	SOT-23-3	1596.00/3,000		
TL4051B12IDBZR	296-22832-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.52	1.20	1.08
TL4050C25IDBZR	296-22815-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.25	.99	.90
TL4050C25IDBZR	296-22815-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1386.00/3,000		
TL4050C25IDCKR	296-22816-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.37	1.08	.98
TL4050C25IDCKR	296-22816-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1512.00/3,000		
TL4050C25QDBZR	296-22817-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.67	1.32	1.19
TL4050C25QDBZR	296-22817-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1848.00/3,000		
TL4050C25QDCKR	296-22818-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.82	1.44	1.30
TL4050C25QDCKR	296-22818-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2016.00/3,000		
TL4050C41IDCKR	296-22820-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.37	1.08	.98
TL4050C41IDCKR	296-22820-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1512.00/3,000		
TL4050C41QDCKR	296-22822-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.82	1.44	1.30
TL4050C41QDCKR	296-22822-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2016.00/3,000		
TL4050C50IDBZR	296-22823-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.25	.99	.90
TL4050C50IDBZR	296-22823-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1386.00/3,000		
TL4050C50IDCKR	296-22824-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.37	1.08	.98
TL4050C50IDCKR	296-22824-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1512.00/3,000		
TL4050C50QDBZR	296-22825-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.67	1.32	1.19
TL4050C50QDBZR	296-22825-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23-3	1848.00/3,000		
TL4050C50QDCKR	296-22826-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.82	1.44	1.30
TL4050C50QDCKR	296-22826-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	2016.00/3,000		
TL4051A12IDBZR	296-22827-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4051A12IDBZR	296-22827-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4051A12IDCKR	296-22828-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2.45	1.89	1.72
TL4051A12IDCKR	296-22828-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2835.00/3,000		
TL4051A12QDBZR	296-22829-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2.45	1.89	1.72
TL4051A12QDBZR	296-22829-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2835.00/3,000		
TL4051A12QDCKR	296-22830-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4051A12QDCKR	296-22830-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4051AIDBZR	296-22719-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	2.28	1.76	1.60
TL4051AIDBZR	296-22719-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	2632.50/3,000		
TL4051AIDCKR	296-22720-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	2.45	1.89	1.72
TL4051AIDCKR	296-22720-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	2835.00/3,000		
TL4051AQDBZR	296-22721-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	2.45	1.89	1.72
TL4051AQDBZR	296-22721-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	2835.00/3,000		
TL4051AQDCKR	296-22831-1-ND	Adjustable Precision Micropower Shunt Voltage Reference	SC70-5	2.80	2.16	1.96
TL4051AQDCKR	296-22831-2-ND	Adjustable Precision Micropower Shunt Voltage Reference	SC70-5	3240.00/3,000		
TL4051B12IDBZR	296-22832-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1680.00/3,000		
TL4051B12IDCKR	296-22833-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.67	1.32	1.19
TL4051B12IDCKR	296-22833-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1848.00/3,000		
TL4051B12QDBZR	296-22834-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4051B12QDBZR	296-22834-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4051B12QDCKR	296-22835-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.49	1.35
TL4051B12QDCKR	296-22835-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2227.50/3,000		
TL4051BIDBZR	296-22722-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1.52	1.20	1.08
TL4051BIDBZR	296-22722-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1680.00/3,000		
TL4051BIDCKR	296-22723-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1.67	1.32	1.19
TL4051BIDCKR	296-22723-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1848.00/3,000		
TL4051BQDBZR	296-22724-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	1.86	1.47	1.33
TL4051BQDBZR	296-22724-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23-3	2058.00/3,000		
TL4051BQDCKR	296-22725-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.49	1.35
TL4051BQDCKR	296-22725-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	2227.50/3,000		
TL4051C12QDBZR	296-22838-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1.67	1.32	1.19

TEXAS INSTRUMENTS Digi-Reel® (Cont.) POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL4051C12QDBZR	296-22838-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23-3	1848.00/3,000		
TL4051C12QDCKR	296-22839-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.82	1.44	1.30
TL4051C12QDCKR	296-22839-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2016.00/3,000		
TL4051CIDBZR	296-22726-1-ND	Adj., Precision Micropower Shunt Reference	SOT-23-3	1.41	1.11	1.00
TL4051CIDBZR	296-22726-2-ND	Adj., Precision Micropower Shunt Reference	SOT-23-3	1554.00/3,000		
TL4051CQDBZR	296-22728-1-ND	Adj., Precision Micropower Shunt Reference	SOT-23-3	1.67	1.32	1.19
TL4051CQDBZR	296-22728-2-ND	Adj., Precision Micropower Shunt Reference	SOT-23-3	1848.00/3,000		
Low Dropout Voltage Regulators						
DEM-SOT223LDO	296-20842-ND	Demo Module for SOT-223 LDOs	—	5.10	—	—
DEM-SOT23LDO	296-20843-ND	Demo Module for SOT23-5 and SOT23-6 LDOs	—	5.10	—	—
DEM-TO263LDO	296-20844-ND	Demo Module for TO220 and TO263 LDOs	—	5.10	—	—
LP2950-33LPE3	296-26120-ND	Adj. Micropower Volt. Reg.* ***NEW!***	TO-92	.57	.42	.57
LP2950-50LPRE3	296-20933-1-ND	5V, Adjustable Micropower Volt. Reg.	TO-92	.55	.39	.33
LP2950-50LPRE3	296-20933-2-ND	5V, Adjustable Micropower Volt. Reg.	TO-92	310.00/2,000		
LP2951-33D	296-26121-5-ND	Adj. Micropower Volt. Reg.* ***NEW!***	8-SOIC	.74	.58	.50
LP2951-33DR	296-26122-1-ND	Adj. Micropower Volt. Reg.* ***NEW!***	8-SOIC	.66	.51	.45
LP2951-33DR	296-26122-2-ND	Adj. Micropower Volt. Reg.* ***NEW!***	8-SOIC	545.00/2,500		
LP2951-50D	296-26123-5-ND	Adj. Micropower Volt. Reg.* ***NEW!***	8-SOIC	.74	.58	.50
LP2951DR	296-22748-1-ND	Adj. Micropower Voltage Regulator	8-SOIC	.66	.51	.45
LP2951DR	296-22748-2-ND	Adj. Micropower Voltage Regulator	8-SOIC	545.00/2,500		
LP2981-28DBVR	296-18472-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.88	.68	.60
LP2981-28DBVR	296-18472-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981-29DBVR	296-22749-1-ND	2.9V, 100mA LDO Regulator	SOT-23-5	.88	.68	.60
LP2981-29DBVR	296-22749-2-ND	2.9V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981-30DBVR	296-17546-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.88	.68	.60
LP2981-30DBVR	296-17546-2-ND	3V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981-33DBVR	296-17360-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.88	.68	.60
LP2981-33DBVR	296-17360-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981-33MDBVREP	296-22177-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	3.00	2.45	2.20
LP2981-33MDBVREP	296-22177-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	3990.00/3,000		
LP2981-50DBVR	296-22750-1-ND	5V, 100mA LDO Regulator	SOT-23-5	.88	.68	.60
LP2981-50DBVR	296-22750-2-ND	5V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981A-28DBVR	296-18473-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.97	.75	.66
LP2981A-28DBVR	296-18473-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	957.00/3,000		
LP2981A-29DBVR	296-22751-1-ND	2.9V, 100mA LDO Regulator	SOT-23-5	.97	.75	.66
LP2981A-29DBVR	296-22751-2-ND	2.9V, 100mA LDO Regulator	SOT-23-5	870.00/3,000		
LP2981A-30DBVR	296-17545-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.97	.75	.66
LP2981A-30DBVR	296-17545-2-ND	3V, 100mA LDO Regulator	SOT-23-5	957.00/3,000		
LP2981A-33DBVR	296-17361-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.97	.75	.66
LP2981A-33DBVR	296-17361-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	957.00/3,000		
LP2985-10DBVR	296-24263-1-ND	10V, 150MA LDO Regulator* ***NEW!***	SOT-23-5	.79	.62	.54
LP2985-10DBVR	296-24263-2-ND	10V, 150MA LDO Regulator* ***NEW!***	SOT-23-5	783.00/3,000		
LP2985-18DBVR	296-18474-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.79	.62	.54
LP2985-18DBVR	296-18474-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	783.00/3,000		
LP2985-28DBVR	296-18475-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.79	.62	.54
LP2985-28DBVR	296-18475-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	783.00/3,000		
LP2985-33DBVR	296-18476-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.79	.62	.54
LP2985-33DBVR	296-18476-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	783.00/3,000		
LP2985-50DBVR	296-20717-1-ND	5V, 150mA LDO Regulator	SOT-23-5	.79	.62	.54
LP2985-50DBVR	296-20717-2-ND	5V, 150mA LDO Regulator	SOT-23-5	783.00/3,000		
LP2985A-10DBVR	296-24264-1-ND	10V, 150MA LDO Regulator* ***NEW!***	SOT-23-5	.84	.65	.57
LP2985A-10DBVR	296-24264-2-ND	10V, 150MA LDO Regulator* ***NEW!***	SOT-23-5	828.00/3,000		
LP2985A-18DBVR	296-18477-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.84	.65	.57
LP2985A-18DBVR	296-18477-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	828.00/3,000		
LP2985A-28DBVR	296-18478-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.84	.65	.57
LP2985A-28DBVR	296-18478-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	828.00/3,000		
LP2985A-33DBVR	296-18479-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.84	.65	.57
LP2985A-33DBVR	296-18479-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	828.00/3,000		
LP2985A-50DBVR	296-26128-1-ND	5V, 150mA LDO Regulator* ***NEW!***	SOT-23-5	.84	.65	.57
LP2985A-50DBVR	296-26128-2-ND	5V, 150mA LDO Regulator* ***NEW!***	SOT-23-5	828.00/3,000		
REG101NA-A/250	296-9653-1-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG101NA-A/250	296-9653-2-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	485.75/250		
REG101NA-2.5/250	REG101NA-2.5CT-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	4.05	3.31	2.97
REG101NA-2.5/250	REG101NA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	624.50/250		
REG101NA-2.8/250	REG101NA-2.8CT-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	4.05	3.31	2.97
REG101NA-2.8/250	REG101NA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	624.50/250		
REG101NA-2.85/250	REG101NA-2.85CT-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	4.05	3.31	2.97
REG101NA-2.85/250	REG101NA-2.85TR-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	624.50/250		
REG101NA-3/250	REG101NA-3CT-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG101NA-3/250	REG101NA-3TR-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	485.75/250		
REG101NA-3.3/250	REG101NA-3.3CT-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG101NA-3.3/250	REG101NA-3.3TR-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	485.75/250		
REG101NA-5/250	REG101NA-5CT-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG101NA-5/250	REG101NA-5TR-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	485.75/250		
REG101UA-A	REG101UA-A-ND	Adj., 100mA LDO Regulator	8-SOIC	3.50	2.82	2.57
REG101UA-2.5	REG101UA-2.5-ND	2.5V DMOS 100mA LDO Regulator	8-SOIC	3.50	2.82	2.57
REG101UA-2.5/2KS	REG101UA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SO-8-50	3206.25/2,500		
REG101UA-2.8	REG101UA-2.8-ND	2.8V DMOS 100mA LDO Regulator	8-SOIC	4.06	3.27	2.98
REG101UA-2.8/2KS	REG101UA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	8-SOIC	4157.50/2,500		
REG101UA-2.85	REG101UA-2.85-ND	2.85V DMOS 100mA LDO Regulator	8-SOIC	3.50	2.82	2.57
REG101UA-3	REG101UA-3-ND	3V DMOS 100mA LDO Regulator	8-SOIC	3.50	2.82	2.57
REG101UA-3/2KS	REG101UA-3TR-ND	3V DMOS 100mA LDO Regulator	SO-8-50	3206.25/2,500		
REG101UA-3.3	REG101UA-3.3-ND	3.3V DMOS 100mA LDO Regulator	8-SOIC	4.06	3.27	2.98
REG101UA-5	REG101UA-5-ND	5V DMOS 100mA LDO Regulator	8-SOIC	4.06	3.27	2.98
REG101UA-5/2KS	REG101UA-5TR-ND	5V DMOS 100mA LDO Regulator	8-SOIC	4157.50/2,500		
REG102GA-A	REG102GA-A-ND	Adj., 250mA DMOS LDO Regulator	SOT-223-6	4.00	3.22	2.94
REG102GA-2.5	REG102GA-2.5-ND	2.5V, 250mA DMOS LDO Regulator	SOT-223-6	4.00	3.22	2.94
REG102GA-2.85	REG102GA-2.85-ND	2.85V, 250mA DMOS LDO Regulator	SOT-223-6	3.33	2.68	2.44
REG102GA-3	REG102GA-3-ND	3V, 250mA DMOS LDO Regulator	SOT-223-6	3.33	2.68	2.44
REG102GA-3.3	REG102GA-3.3-ND	3.3V, 250mA DMOS LDO Regulator	SOT-223-6	4.00	3.22	2.94
REG102GA-5	REG102GA-5-ND	5V, 250mA DMOS LDO Regulator	SOT-223-6	4.00	3.22	2.94
REG102NA-A/250	REG102NA-A/250CT-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-A/250	REG102NA-A/250TR-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-2.5/250	REG102NA-2.5CT-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-2.5/250	REG102NA-2.5TR-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-2.8/250	REG102NA2.8250CT-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REG102NA-2.8/250	REG102NA2.8250TR-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-2.85/250	REG102NA-2.85CT-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-2.85/250	REG102NA-2.85TR-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-2.85/3K	296-20535-1-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	3.00	2.45	2.20
REG102NA-2.85/3K	296-20535-2-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	3990.00/3,000		
REG102NA-3/3K	296-17894-1-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	3.00	2.45	2.20
REG102NA-3/3K	296-17894-2-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	3990.00/3,000		
REG102NA-3/250	REG102NA-3CT-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-3/250	REG102NA-3TR-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-3.3/250	REG102NA-3.3CT-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-3.3/250	REG102NA-3.3TR-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102NA-5/250	REG102NA-5CT-ND	5V DMOS 250mA LDO Regulator	SOT-23-5	3.57	2.92	2.62
REG102NA-5/250	REG102NA-5TR-ND	5V DMOS 250mA LDO Regulator	SOT-23-5	550.50/250		
REG102UA-A	REG102UA-A-ND	Adj., 250mA LDO Regulator	8-SOIC	3.58	2.88	2.63
REG102UA-2.5	REG102UA-2.5-ND	2.5V, 250mA LDO Regulator	8-SOIC	2.94	2.37	2.16
REG102UA-3	REG102UA-3-ND	3V, 250mA LDO Regulator	8-SOIC	2.94	2.37	2.16
REG102UA-3.3	REG102UA-3.3-ND	3.3V, 250mA LDO Regulator	8-SOIC	3.58	2.88	2.63
REG102UA-5	REG102UA-5-ND	5V, 250mA LDO Regulator	8-SOIC	3.58	2.88	2.63
REG103FA-AKTTT	296-15998-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	11.26	9.35	—
REG103FA-AKTTT	296-15998-2-ND	Adj., 500mA LDO Regulator	5-DDPAK	435.65/50		
REG103FA-A/500	296-15940-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	9.81	8.14	7.40
REG103FA-A/500	296-15940-2-ND	Adj., 500mA LDO Regulator	5-DDPAK	2867.50/500		
REG103FA-2.5	REG103FA-2.5-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.45	4.47	4.04
REG103FA-2.5/500	296-15935-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	9.81	8.14	7.40
REG103FA-2.5/500	296-15935-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK	2867.50/500		
REG103FA-2.5KTTT	296-15993-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	11.26	9.35	—
REG103FA-2.5KTTT	296-15993-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK	435.65/50		
REG103FA-2.7	REG103FA-2.7-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.45	4.47	4.04
REG103FA-2.7/500	296-15936-1-ND	2.7V, 500mA LDO Regulator	5-DDPAK	7.45	6.19	5.62
REG103FA-2.7/500	296-15936-2-ND	2.7V, 500mA LDO Regulator	5-DDPAK	2177.75/500		
REG103FA-3/500	296-15938-1-ND	3V, 500mA LDO Regulator	5-DDPAK	7.45	6.19	5.62
REG103FA-3/500	296-15938-2-ND	3V, 500mA LDO Regulator	5-DDPAK	2177.75/500		
REG103FA-3.3/500	296-15937-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	9.81	8.14	7.40
REG103FA-3.3/500	296-15937-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK	2867.50/500		
REG103FA-3.3KTTT	296-15996-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	11.26	9.35	—
REG103FA-3.3KTTT	296-15996-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK	435.65/50		
REG103FA-5/500	296-15939-1-ND	5V, 500mA LDO Regulator	5-DDPAK	9.81	8.14	7.40
REG103FA-5/500	296-15939-2-ND	5V, 500mA LDO Regulator	5-DDPAK	2867.50/500		
REG103FA-5KTTT	296-15997-1-ND	5V, 500mA LDO Regulator	5-DDPAK	11.26	9.35	—
REG103FA-5KTTT	296-15997-2-ND	5V, 500mA LDO Regulator	5-DDPAK	435.65/50		
REG103GA-A	REG103GA-A-ND	Adj., CMOS 500mA LDO Regulator	SOT-223-5	8.75	7.18	6.48
REG103GA-2.5	REG103GA-2.5-ND	2.5V CMOS 500mA LDO Regulator	SOT-223-5	8.75	7.18	6.48
REG103GA-2.7	REG103GA-2.7-ND	2.7V CMOS 500mA LDO Regulator	SOT-223-5	12.34	10.38	9.54
REG103GA-3	REG103GA-3-ND	3V CMOS 500mA LDO Regulator	SOT-223-5	12.34	10.38	9.54
REG103GA-3.3	REG103GA-3.3-ND	3.3V CMOS 500mA LDO Regulator	SOT-223-5	6.65	5.46	4.93
REG103GA-5	REG103GA-5-ND	5V CMOS 500mA LDO Regulator	SOT-223-5	6.65	5.46	4.93
REG103UA-A	REG103UA-A-ND	Adj., DMOS 500mA LDO Regulator	8-SOIC	6.43	5.27	4.76
REG103UA-2.5	REG103UA-2.5-ND	2.5V DMOS 500mA LDO Regulator	8-SOIC	8.50	6.97	6.29
REG103UA-2.7	REG103UA-2.7-ND	2.7V DMOS 500mA LDO Regulator	8-SOIC	12.34	10.38	9.54
REG103UA-3	REG103UA-3-ND	3V DMOS 500mA LDO Regulator	8-SOIC	12.34	10.38	9.54
REG103UA-3.3	REG103UA-3.3-ND	3.3V DMOS 500mA LDO Regulator	8-SOIC	6.43	5.27	4.76
REG103UA-5	REG103UA-5-ND	5V DMOS 500mA LDO Regulator	8-SOIC	8.50	6.97	6.29
REG104FA-AKTTT	296-16004-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	8.43	7.00	—
REG104FA-AKTTT	296-16004-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	325.95/50		
REG104FA-A/500	296-15907-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	7.31	6.08	5.52
REG104FA-A/500	296-15907-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	2139.00/500		
REG104FA-2.5/500	REG104FA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	2790.00/500		
REG104FA-2.5KTTT	296-15999-1-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	11.00	9.13	—
REG104FA-2.5KTTT	296-15999-2-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	425.40/50		
REG104FA-2.7/500	296-15906-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	7.31	6.08	5.52
REG104FA-2.7/500	296-15906-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	2139.00/500		
REG104FA-2.7KTTT	296-16000-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	12.90	10.94	—
REG104FA-2.7KTTT	296-16000-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	518.95/50		
REG104FA-3/500	REG104FA-3TR-ND	3V CMOS 1A LDO Regulator	5-DDPAK	4067.50/500		
REG104FA-3KTTT	296-16001-1-ND	3V CMOS 1A LDO Regulator	5-DDPAK	14.77	12.52	—
REG104FA-3KTTT	296-16001-2-ND	3V CMOS 1A LDO Regulator	5-DDPAK	593.85/50		
REG104FA-3.3/500	REG104FA-3.3CT-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	7.31	6.08	5.52
REG104FA-3.3/500	REG104FA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	2139.00/500		
REG104FA-3.3KTTT	296-16002-1-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	8.43	7.00	—
REG104FA-3.3KTTT	296-16002-2-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	325.95/50		
REG104FA-5/500	REG104FA-5CT-ND	5V CMOS 1A LDO Regulator	5-DDPAK	7.31	6.08	5.52
REG104FA-5/500	REG104FA-5TR-ND	5V CMOS 1A LDO Regulator	5-DDPAK	2139.00/500		
REG104FA-5KTTT	296-16003-1-ND	5V CMOS 1A LDO Regulator	5-DDPAK	8.43	7.00	—
REG104FA-5KTTT	296-16003-2-ND	5V CMOS 1A LDO Regulator	5-DDPAK	325.95/50		
REG104GA-A	REG104GA-A-ND	Adj., CMOS 1A LDO Regulator	6-SOP	6.65	5.46	4.93
REG104GA-2.5	REG104GA-2.5-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5	6.65	5.46	4.93
REG104GA-2.5/2K5	REG104GA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5	7414.75/2,500		
REG104GA-3	REG104GA-3-ND	3V CMOS 1A LDO Regulator	SOT-223-5	12.34	10.38	9.54
REG104GA-3.3	REG104GA-3.3-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5	6.65	5.46	4.93
REG104GA-3.3/2K5	REG104GA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5	7414.75/2,500		
REG104GA-5	REG104GA-5-ND	5V CMOS 1A LDO Regulator	SOT-223-5	6.65	5.46	4.93
REG104GA-5/2K5	REG104GA-5CT-ND	5V CMOS 1A LDO Regulator	SOT-223-5	6.69	5.47	4.91
REG104GA-5/2K5	REG104GA-5TR-ND	5V CMOS 1A LDO Regulator	SOT-223-5	7414.75/2,500		
REG113EA2.5/2K5	REG113EA2.52K5CT-ND	2.5V, 400mA DMOS LDO Regulator	8-MSOP	4.50	3.68	3.30
REG113EA2.5/2K5	REG113EA2.52K5TR-ND	2.5V, 400mA DMOS LDO Regulator	8-MSOP	4987.50/2,500		
REG113EA-2.85/2K5	REG113EA2.852K5CT-ND	2.85V, 400mA DMOS LDO Regulator	8-MSOP	4.50	3.68	3.30
REG113EA-2.85/2K5	REG113EA2.852K5TR-ND	2.85V, 400mA DMOS LDO Regulator	8-MSOP	4987.50/2,500		
REG113EA-3/2K5	REG113EA-3/2K5CT-ND	3V, 400mA DMOS LDO Regulator	8-MSOP	4.50	3.68	3.30
REG113EA-3/2K5	REG113EA-3/2K5TR-ND	3V, 400mA DMOS LDO Regulator	8-MSOP	4987.50/2,500		
REG113EA-3.3/250	REG113EA3.3/250CT-ND	3.3V, 400mA DMOS LDO Regulator	8-MSOP	3.99	3.26	2.93
REG113EA-3.3/250	REG113EA3.3/250TR-ND	3.3V, 400mA DMOS LDO Regulator	8-MSOP	615.25/250		
REG113EA-5/2K5	REG113EA-5/2K5CT-ND	5V, 400mA DMOS LDO Regulator	8-MSOP	3.42	2.80	2.51
REG113EA-5/2K5	REG113EA-5/2K5TR-ND	5V, 400mA DMOS LDO Regulator	8-MSOP	3790.50/2,500		
REG113NA-2.5/3K	REG113NA-2.5/3KCT-ND	2.5V, 400mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG113NA-2.5/3K	REG113NA-2.5/3KTR-ND	2.5V, 400mA LDO Regulator	SOT-23-5	4189.50/3,000		
REG113NA-2.85/3K	REG113NA2.853KCT-ND	2.85V, 400mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG113NA-2.85/3K	REG113NA2.853KTR-ND	2.85V, 400mA LDO Regulator	SOT-23-5	4189.50/3,000		
REG113NA-3/3K	REG113NA-3/3KCT-ND	3V, 400mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG113NA-3/3K	REG113NA-3/3KTR-ND	3V, 400mA LDO Regulator	SOT-23-5	4191.00/3,000		
REG113NA-3.3/3K	REG113NA-3.3/3KCT-ND	3.3V, 400mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG113NA-3.3/3K	REG113NA-3.3/3KTR-ND	3.3V, 400mA LDO Regulator	SOT-23-5	4191.00/3,000		
REG113NA-5/3K	REG113NA-5/3KCT-ND	5V, 400mA LDO Regulator	SOT-23-5	3.15	2.58	2.31
REG113NA-5/3K	REG113NA-5/3KTR-ND	5V, 400mA LDO Regulator	SOT-23-5	4189.50/3,000		
REG1117	REG1117-ND	Adj., LDO Positive Regulator	SOT-223-4	2.79	2.25	2.03
REG1117-2.85	REG1117-2.85-ND	2.85V LDO Positive Regulator	SOT-223-4	2.79	2.25	2.03
REG1117-3.3	REG1117-3.3-ND	3.30V LDO Positive Regulator	SOT-223-4	2.79	2.25	2.03
REG1117-3.3/2K5	296-21321-1-ND	3.3V LDO Positive Regulator	SOT-223-4	2.66	2.06	1.87
REG1117-3.3/2K5	296-21321-2-ND	3.3V LDO Positive Regulator	SOT-223-4	2565.00/2,500		
REG1117-5	REG1117-5-ND	5V LDO Positive Regulator	SOT-223-4	2.79	2.25	2.03
REG1117A	REG1117A-ND	Adj., 1A LDO Positive Regulator	SOT-223-4	2.80	2.25	2.05
REG1117A-1.8	REG1117A-1.8-ND	1.8V, 1A LDO Regulator	SOT-223-4	2.80	2.25	2.05
REG1117A-2.5	REG1117A-2.5-ND	2.5V, 1A LDO Regulator	SOT-223-4	3.64	2.93	2.67
REG1117F-3.3/500	296-15941-1-ND	3.3V, 1A LDO Regulator	D2PAK-3	4.20	3.43	3.08
REG1117F-3.3/500	296-15941-2-ND	3.3V, 1A LDO Regulator	D2PAK-3	1162.00/500		
REG1117F-3.3KTTT	296-16005-1-ND	3.3V, 800mA LDO Regulator	D2PAK-3	4.80	3.92	—
REG1117F-3.3KTTT	296-16005-2-ND	3.3V, 800mA LDO Regulator	D2PAK-3	180.00/50		
REG1117FA/500	296-15942-1-ND	Adj., 1A LDO Regulator	D2PAK-3	4.65	3.80	3.41
REG1117FA/500	296-15942-2-ND	Adj., 1A LDO Regulator	D2PAK-3	1286.50/500		
REG1117FAKTTT	296-16006-1-ND	Adj., 1A LDO Regulator	D2PAK-5	5.40	4.41	—
REG1117FAKTTT	296-16006-2-ND	Adj., 1A LDO Regulator	D2PAK-5	202.50/50		
REG1117FA-1.8KTTT	296-16007-1-ND	1.8V, 1A LDO Regulator	D2PAK-3	4.65	3.80	—
REG1117FA-1.8KTTT	296-16007-2-ND	1.8V, 1A LDO Regulator	D2PAK-3	174.40/50		
REG1117FA-2.5/500	296-15909-1-ND	2.5V, 1A LDO Regulator	D2PAK-3	4.65	3.80	3.41
REG1117FA-2.5/500	296-15909-2-ND	2.5V, 1A LDO Regulator	D2PAK-3	1286.50/500		
REG1117FA-2.5KTTT	296-16008-1-ND	2.5V, 1A LDO Regulator	D2PAK-3	5.40	4.41	—
REG1117FA-2.5KTTT	296-16008-2-ND	2.5V, 1A LDO Regulator	D2PAK-3	202.50/50		
REG1117FA-5.0/500	296-15910-1-ND	5V, 1A LDO Regulator	D2PAK-3	4.65	3.80	3.41
REG1117FA-5.0/500	296-15910-2-ND	5V, 1A LDO Regulator	D2PAK-3	1286.50/500		
REG1117FA-5.0KTTT	296-16009-1-ND	5V, 1A LDO Regulator	D2PAK-3	5.40	4.41	—
REG1117FA-5.0KTTT	296-16009-2-ND	5V, 1A LDO Regulator	D2PAK-3	202.50/50		
REG1118-2.85	REG1118-2.85-ND	2.85V LDO Regulator, Source/Sink Capability	SOT-223-4	3.92	3.15	2.87
SN105125DBVR	296-15347-1-ND	150mA LDO Regulator with POK	SOT-23-5	1.08	.86	.77
SN105125DBVR	296-15347-2-ND	150mA LDO Regulator with POK	SOT-23-5	1197.00/3,000		
TL720M05QKTTRQ1	296-24666-1-ND	5V, 400mA LDO Regulator* ***NEW!***	TO-263-3	1.93	1.49	1.35
TL720M05QKTTRQ1	296-24666-2-ND	5V, 400mA LDO Regulator* ***NEW!***	TO-263-3	481.50/500		
TL720M05QKVURQ1	296-24509-1-ND	5V, 700mA LDO Regulator* ***NEW!***	3-PFM	1.56	1.23	1.11
TL720M05QKVURQ1	296-24509-2-ND	5V, 700mA LDO Regulator* ***NEW!***	3-PFM	1435.00/2,500		
TL750L05CD	296-8000-5-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	.82	.64	.56
TL750L05CDR	296-15014-1-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	.75	.58	.51
TL750L05CDR	296-15014-2-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	616.25/2,500		
TL750L05CKCS	296-21342-5-ND	5V, 150mA LDO Voltage Regulator	TO-220-3	.68	.53	.46
TL750L05CKTTR	296-22840-1-ND	5V, 150mA LDO Regulator	D2PAK-5	.90	.70	.62
TL750L05CKTTR	296-22840-2-ND	5V, 150mA LDO Regulator	D2PAK-5	204.00/500		
TL750L05CLP	296-8002-5-ND	5V, 150mA LDO Voltage Regulator	TO-92	.82	.64	.56
TL750L08CD	296-8004-5-ND	8V, 150mA LDO Voltage Regulator	8-SOIC	.82	.64	.56
TL750L08CLP	296-8005-5-ND	8V, 150mA LDO Voltage Regulator	TO-92	.68	.53	.46
TL750L10CD	296-8006-5-ND	10V, 150mA LDO Voltage Regulator	8-SOIC	.82	.64	.56
TL750L10CLPR	296-8007-1-ND	10V, 150mA LDO Voltage Regulator	TO-92	.75	.58	.51
TL750L10CLPR	296-8007-2-ND	10V, 150mA LDO Voltage Regulator	TO-92	494.00/2,000		
TL750L12CD	296-8008-5-ND	12V, 150mA LDO Voltage Regulator	8-SOIC	.82	.64	.56
TL750L12CLP	296-8009-ND	12V, 150mA LDO Voltage Regulator	TO-92	.68	.53	.46
TL750M05CKCSE3	296-21594-5-ND	5V, LDO Voltage Regulator	TO-220	1.26	1.01	.89
TL750M05CKTTR	296-20776-1-ND	5V, LDO Voltage Regulator	D2PAK-3	1.64	1.30	1.17
TL750M05CKTTR	296-20776-2-ND	5V, LDO Voltage Regulator	D2PAK-3	648.00/1,000		
TL750M05CKVURG3	296-21595-1-ND	5V, LDO Voltage Regulator	3-PFM	1.64	1.30	1.17
TL750M05CKVURG3	296-21595-2-ND	5V, LDO Voltage Regulator	3-PFM	1512.50/2,500		
TL750M08CKCSE3	296-21596-5-ND	8V, LDO Voltage Regulator	TO-220	1.26	1.01	.89
TL750M08CKVURG3	296-21597-1-ND	8V, LDO Voltage Regulator	3-PFM	1.64	1.30	1.17
TL750M08CKVURG3	296-21597-2-ND	8V, LDO Voltage Regulator	3-PFM	1512.50/2,500		
TL750M10CKCSE3	296-21598-5-ND	10V, LDO Voltage Regulator	TO-220	1.33	1.07	.94
TL750M10CKVURG3	296-21599-1-ND	10V, LDO Voltage Regulator	3-PFM	1.37	1.08	.98
TL750M10CKVURG3	296-21599-2-ND	10V, LDO Voltage Regulator	3-PFM	1260.00/2,500		
TL750M10CKTER	296-18893-1-ND	10V, LDO Voltage Regulator	3-PFM	1.48	1.17	1.06
TL750M10CKTER	296-18893-2-ND	10V, LDO Voltage Regulator	3-PFM	1092.00/2,000		
TL750M12CKCSE3	296-21600-5-ND	12V, LDO Voltage Regulator	TO-220	1.26	1.01	.89
TL750M12CKVURG3	296-21601-1-ND	12V, LDO Voltage Regulator	3-PFM	1.64	1.30	1.17
TL750M12CKVURG3	296-21601-2-ND	12V, LDO Voltage Regulator	3-PFM	1512.50/2,500		
TL751L05CD	296-8011-5-ND	5V, 150mA LDO Regulator	8-SOIC	.82	.64	.56
TL751L05CDR	296-15015-1-ND	5V, 150mA LDO Regulator	8-SOIC	.75	.58	.51
TL751L05CDR	296-15015-2-ND	5V, 150mA LDO Regulator	8-SOIC	617.50/2,500		
TL751L10CD	296-8012-5-ND	10V, 150mA LDO Regulator	8-SOIC	.82	.64	.56
TL751L10CP	296-8013-5-ND	10V, 150mA LDO Regulator	8-Dip	.75	.58	.51
TL751L12CDR	296-15016-1-ND	12V, 150mA LDO Regulator	8-SOIC	.75	.58	.51
TL751L12CDR	296-15016-2-ND	12V, 150mA LDO Regulator	8-SOIC	617.50/2,500		
TL751M05QKTTRQ1	296-23318-1-ND	5V LDO Positive Voltage Regulator	D2PAK-5	1.82	1.44	1.30
TL751M05QKTTRQ1	296-23318-2-ND	5V LDO Positive Voltage Regulator	D2PAK-5	456.00/500		
TL751M08QKTTRQ1	296-23319-1-ND	8V LDO Positive Voltage Regulator	D2PAK-5	1.82	1.44	1.30
TL751M08QKTTRQ1	296-23319-2-ND	8V LDO Positive Voltage Regulator	D2PAK-5	456.00/500		
TL760M25QKTTRQ1	296-23320-1-ND	2.5V LDO Fixed Voltage Regulator	D2PAK-3	1.71	1.35	1.22
TL760M08QKTTRQ1	296-23320-2-ND	2.5V LDO Fixed Voltage Regulator	D2PAK-3	427.50/500		
TL760M33QKTTRQ1	296-21854-1-ND	3.3V LDO Fixed Regulator	D2PAK-5	1.93	1.49	1.35
TL760M33QKTTRQ1	296-21854-2-ND	3.3V LDO Fixed Regulator	D2PAK-5	481.50/500		
TL780-05KCSE3	296-21602-5-ND	5V, 1.5A Positive Voltage Regulator	TO-220	.88	.69	.60
TL780-12KCSE3	296-21603-5-ND	12V, 1.5A Positive Voltage Regulator	TO-220	.88	.69	.60
TL780-15KCSE3	296-21604-5-ND	15V, 1.5A Positive Voltage Regulator	TO-220	.88	.69	.60
TL1963A-15DCQR	296-24531-1-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3.60	2.94	2.64
TL1963A-15DCQR	296-24531-2-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3990.00/2,500		
TL1963A-15DCYR	296-24894-1-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-4	3.30	2.70	2.42
TL1963A-15DCYR	296-24894-2-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-4	3657.50/2,500		
TL1963A-15KTTR	296-23743-1-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	3.75	3.07	2.75
TL1963A-15KTTR	296-23743-2-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1037.50/500		
TL1963A-18DCQR	296-24532-1-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3.60	2.94	2.64
TL1963A-18DCQR	296-24532-2-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3990.00/2,500		
TL1963A-18DCYR	296-24895-1-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-4	3.30	2.70	2.42
TL1963A-18DCYR	296-24895-2-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-4	3657.50/2,500		
TL1963A-18KTTR	296-23744-1-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	3.75	3.07	2.75
TL1963A-18KTTR	296-23744-2-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1037.50/500		
TL1963A-25DCQR	296-24533-1-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3.60	2.94	2.64
TL1963A-25DCQR	296-24533-2-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator* ***NEW!***	SOT-223-6	3990.00/2,500		

* *RoHS Compliant*

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(Continued)

POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL1963A-25DCYR	296-24896-1-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-4	3.30	2.70	2.42
TL1963A-25DCYR	296-24896-2-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-4	3657.50/2,500		
TL1963A-25KTTR	296-23745-1-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	3.75	3.07	2.75
TL1963A-25KTTR	296-23745-2-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1037.50/500		
TL1963A-33DCQR	296-24534-1-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-6	3.60	2.94	2.64
TL1963A-33DCQR	296-24534-2-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-6	3990.00/2,500		
TL1963A-33DCYR	296-24897-1-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-4	3.30	2.70	2.42
TL1963A-33DCYR	296-24897-2-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT-223-4	3657.50/2,500		
TL1963A-33KTTR	296-24758-1-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	3.75	3.07	2.75
TL1963A-33KTTR	296-24758-2-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	1037.50/500		
TL1963ADCQR	296-25119-1-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	3.60	2.94	2.64
TL1963ADCQR	296-25119-2-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	3990.00/2,500		
TL1963AKTTR	296-24759-1-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	3.75	3.07	2.75
TL1963AKTTR	296-24759-2-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	1037.50/500		
TL7700CP	296-26724-5-ND	Supply-Voltage Supervisor* **NEW!**	8-Dip	3.50	2.82	2.57
TL7700CPSR	296-8015-1-ND	Supply-Voltage Supervisor	8-SOP	3.75	3.07	2.75
TL7700CPSR	296-8015-2-ND	Supply-Voltage Supervisor	8-SOP	3326.00/2,000		
TL7700CPW	296-26725-5-ND	Supply-Voltage Supervisor* **NEW!**	8-TSSOP	4.20	3.38	3.08
TLE4275QKVURQ1	296-25228-1-ND	5V LDO Voltage Regulator* **NEW!**	DPAK	2.80	2.16	1.96
TLE4275QKVURQ1	296-25228-2-ND	5V LDO Voltage Regulator* **NEW!**	DPAK	2700.00/2,500		
TLV1117CDCYR	296-17598-1-ND	Adj., LDO Voltage Regulator	SOT-223	.70	.55	.48
TLV1117CDCYR	296-17598-2-ND	Adj., LDO Voltage Regulator	SOT-223	580.00/2,500		
TLV1117CDRJR	296-19515-1-ND	Adj., LDO Voltage Regulator	8-SON	.79	.62	.54
TLV1117CDRJR	296-19515-2-ND	Adj., LDO Voltage Regulator	8-SON	288.00/1,000		
TLV1117CKCS	296-17599-5-ND	Adj., LDO Voltage Regulator	TO-220	1.09	.87	.76
TLV1117CKTTR	296-20781-1-ND	Adj., LDO Voltage Regulator	D2PAK-3	.92	.72	.63
TLV1117CKTTR	296-20781-2-ND	Adj., LDO Voltage Regulator	D2PAK-3	336.00/1,000		
TLV1117CKVURG3	296-19516-1-ND	Adj., LDO Voltage Regulator	DPAK	.70	.55	.48
TLV1117CKVURG3	296-19516-2-ND	Adj., LDO Voltage Regulator	DPAK	580.00/2,500		
TLV1117IDCYR	296-17600-1-ND	Adj., LDO Voltage Regulator	SOT-223	.77	.60	.53
TLV1117IDCYR	296-17600-2-ND	Adj., LDO Voltage Regulator	SOT-223	638.00/2,500		
TLV1117IDRJR	296-19517-1-ND	Adj., LDO Voltage Regulator	8-SON	.77	.60	.53
TLV1117IDRJR	296-19517-2-ND	Adj., LDO Voltage Regulator	8-SON	281.60/1,000		
TLV1117IKCS	296-17601-5-ND	Adj., LDO Voltage Regulator	TO-220	1.14	.92	.80
TLV1117IKTTR	296-20782-1-ND	Adj., LDO Voltage Regulator	D2PAK-3	.99	.77	.68
TLV1117IKTTR	296-20782-2-ND	Adj., LDO Voltage Regulator	D2PAK-3	362.00/1,000		
TLV1117IKVURG3	296-19518-1-ND	Adj., LDO Voltage Regulator	DPAK	.77	.60	.53
TLV1117IKVURG3	296-19518-2-ND	Adj., LDO Voltage Regulator	DPAK	638.00/2,500		
TLV1117-15CDCYR	296-21106-1-ND	1.5V, LDO Voltage Regulator	SOT-223-4	.70	.55	.48
TLV1117-15CDCYR	296-21106-2-ND	1.5V, LDO Voltage Regulator	SOT-223-4	580.00/2,500		
TLV1117-15CDRJR	296-23023-1-ND	1.5V, LDO Voltage Regulator	8-SON	.97	.75	.66
TLV1117-15CDRJR	296-23023-2-ND	1.5V, LDO Voltage Regulator	8-SON	352.00/1,000		
TLV1117-15IDCYR	296-21107-1-ND	1.5V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-15IDCYR	296-21107-2-ND	1.5V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-15IKVURG3	296-19669-1-ND	1.5V, LDO Voltage Regulator	DPAK	1.06	.82	.72
TLV1117-15IKVURG3	296-19669-2-ND	1.5V, LDO Voltage Regulator	DPAK	870.00/2,500		
TLV1117-18CDCYR	296-21108-1-ND	1.8V, LDO Voltage Regulator	SOT-223-4	.70	.55	.48
TLV1117-18CDCYR	296-21108-2-ND	1.8V, LDO Voltage Regulator	SOT-223-4	580.00/2,500		
TLV1117-18CDRJR	296-24129-1-ND	1.8V, LDO Voltage Regulator	8-SON	.97	.75	.66
TLV1117-18CDRJR	296-24129-2-ND	1.8V, LDO Voltage Regulator	8-SON	352.00/1,000		
TLV1117-18CKVURG3	296-23299-1-ND	1.8V, LDO Voltage Regulator	DPAK	.88	.68	.60
TLV1117-18CKVURG3	296-23299-2-ND	1.8V, LDO Voltage Regulator	DPAK	725.00/2,500		
TLV1117-18IDCYR	296-21109-1-ND	1.8V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-18IDCYR	296-21109-2-ND	1.8V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-18IKVURG3	296-20657-1-ND	1.8V, LDO Voltage Regulator	DPAK	1.06	.82	.72
TLV1117-18IKVURG3	296-20657-2-ND	1.8V, LDO Voltage Regulator	DPAK	870.00/2,500		
TLV1117-25CDCYR	296-21110-1-ND	2.5V, LDO Voltage Regulator	SOT-223-4	.70	.55	.48
TLV1117-25CDCYR	296-21110-2-ND	2.5V, LDO Voltage Regulator	SOT-223-4	580.00/2,500		
TLV1117-25IDCYR	296-21111-1-ND	2.5V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-25IDCYR	296-21111-2-ND	2.5V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-33CDCYR	296-21112-1-ND	3.3V, LDO Voltage Regulator	SOT-223-4	.70	.55	.48
TLV1117-33CDCYR	296-21112-2-ND	3.3V, LDO Voltage Regulator	SOT-223-4	580.00/2,500		
TLV1117-33CDRJR	296-19749-1-ND	3.3V, LDO Voltage Regulator	8-SON	.97	.75	.66
TLV1117-33CDRJR	296-19749-2-ND	3.3V, LDO Voltage Regulator	8-SON	352.00/1,000		
TLV1117-33IDCY	296-26777-5-ND	3.3V, LDO Voltage Regulator* **NEW!**	SOT-223-4	.78	.61	.53
TLV1117-33IDCYR	296-21113-1-ND	3.3V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-33IDCYR	296-21113-2-ND	3.3V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-33IKVURG3	296-20658-1-ND	3.3V, LDO Voltage Regulator	DPAK	1.06	.82	.72
TLV1117-33IKVURG3	296-20658-2-ND	3.3V, LDO Voltage Regulator	DPAK	870.00/2,500		
TLV1117-50CDCY	296-26778-5-ND	5V, LDO Voltage Regulator* **NEW!**	SOT-223-4	.78	.61	.53
TLV1117-50CDCYR	296-21114-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.70	.55	.48
TLV1117-50CDCYR	296-21114-2-ND	5V, LDO Voltage Regulator	SOT-223-4	580.00/2,500		
TLV1117-50IDCYR	296-21115-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-50IDCYR	296-21115-2-ND	5V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-50IDCYRG3	296-19634-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.79	.62	.54
TLV1117-50IDCYRG3	296-19634-2-ND	5V, LDO Voltage Regulator	SOT-223-4	652.50/2,500		
TLV1117-50IDRJR	296-21116-1-ND	5V, LDO Voltage Regulator	8-SON	1.03	.81	.73
TLV1117-50IDRJR	296-21116-2-ND	5V, LDO Voltage Regulator	8-SON	405.00/1,000		
TLV1117-50IKVURG3	296-19670-1-ND	5V, LDO Voltage Regulator	DPAK	1.06	.82	.72
TLV1117-50IKVURG3	296-19670-2-ND	5V, LDO Voltage Regulator	DPAK	870.00/2,500		
TLV2217-18KCS	296-18905-5-ND	1.8V LDO PnP Fixed Voltage Regulator	TO-220	.98	.79	.69
TLV2217-18KVURG3	296-19519-1-ND	1.8V LDO PnP Fixed Voltage Regulator	DPAK	1.28	1.01	.91
TLV2217-18KVURG3	296-19519-2-ND	1.8V LDO Pnp Fixed Voltage Regulator	DPAK	1175.00/2,500		
TLV2217-25KCSE3	296-21609-5-ND	2.5V LDO PnP Fixed Voltage Regulator	TO-220	.98	.79	.69
TLV2217-25KVURG3	296-21610-1-ND	2.5V LDO PnP Fixed Voltage Regulator	DPAK	1.28	1.01	.91
TLV2217-25KVURG3	296-21610-2-ND	2.5V LDO PnP Fixed Voltage Regulator	DPAK	1175.00/2,500		
TLV2217-25PWR	296-18907-1-ND	2.5V LDO PnP Fixed Voltage Regulator	20-TSSOP	1.06	.84	.76
TLV2217-25PWR	296-18907-2-ND	2.5V LDO PnP Fixed Voltage Regulator	20-TSSOP	784.00/2,000		
TLV2217-33KCSE3	296-21611-5-ND	3.3V LDO PnP Fixed Voltage Regulator	TO-220	.98	.79	.69
TLV2217-33KVURG3	296-19786-1-ND	3.3V LDO PnP Fixed Voltage Regulator	DPAK	1.28	1.01	.91
TLV2217-33KVURG3	296-19786-2-ND	3.3V LDO PnP Fixed Voltage Regulator	DPAK	1175.00/2,500		
TLV2217-33PWR	296-12368-1-ND	3.3V LDO PnP Fixed Voltage Regulator	20-TSSOP	1.06	.84	.76
TLV2217-33PWR	296-12368-2-ND	3.3V LDO PnP Fixed Voltage Regulator	20-TSSOP	784.00/2,000		
TLV70012DSET	296-25212-1-ND	1.2V, 200mA LDO Regulator* **NEW!**	6-SON	.89	.70	.61
TLV70012DSET	296-25212-2-ND	1.2V, 200mA LDO Regulator* **NEW!**	6-SON	119.25/250		
TLV70015DCKT	296-25267-1-ND	1.5V, 200mA LDO Regulator* **NEW!**	SC70-5	.82	.64	.56
TLV70015DCKT	296-25267-2-ND	1.5V, 200mA LDO Regulator* **NEW!**	SC70-5	109.25/250		
TLV70015DDCT	296-25268-1-ND	1.5V, 200mA LDO Regulator* **NEW!**	SOT-23-5	.82	.64	.56
TLV70015DDCT	296-25268-2-ND	1.5V, 200mA LDO Regulator* **NEW!**	SOT-23-5	109.25/250		
TLV70015DSET	296-25290-1-ND	1.5V, 200mA LDO Regulator* **NEW!**	6-SON	.89	.70	.61
TLV70015DSET	296-25290-2-ND	1.5V, 200mA LDO Regulator* **NEW!**	6-SON	119.25/250		
TLV70018DCKT	296-25269-1-ND	1.8V, 200mA LDO Regulator* **NEW!**	SC70-5	.82	.64	.56
TLV70018DCKT	296-25269-2-ND	1.8V, 200mA LDO Regulator* **NEW!**	SC70-5	109.25/250		
TLV70018DDCT	296-25270-1-ND	1.8V, 200mA LDO Regulator* **NEW!**	SOT-23-5	.82	.64	.56
TLV70018DDCT	296-25270-2-ND	1.8V, 200mA LDO Regulator* **NEW!**	SOT-23-5	109.25/250		
TLV70018DSET	296-25213-1-ND	1.8V, 200mA LDO Regulator* **NEW!**	6-SON	.89	.70	.61
TLV70018DSET	296-25213-2-ND	1.8V, 200mA LDO Regulator* **NEW!**	6-SON	119.25/250		
TLV70025DDCT	296-25568-1-ND	2.5V, 200mA LDO Regulator* **NEW!**	SOT-5	.82	.64	.56
TLV70025DDCT	296-25568-2-ND	2.5V, 200mA LDO Regulator* **NEW!**	SOT-5	109.25/250		
TLV70028DCKT	296-25271-1-ND	2.8V, 200mA LDO Regulator* **NEW!**	SC70-5	.82	.64	.56
TLV70028DCKT	296-25271-2-ND	2.8V, 200mA LDO Regulator* **NEW!**	SC70-5	109.25/250		
TLV70028DDCT	296-25272-1-ND	2.8V, 200mA LDO Regulator* **NEW!**	SOT-23-5	.82	.64	.56
TLV70028DDCT	296-25272-2-ND	2.8V, 200mA LDO Regulator* **NEW!**	SOT-23-5	109.25/250		
TLV70028DSER	296-25291-1-ND	2.8V, 200mA LDO Regulator* **NEW!**	6-SON	.79	.61	.54
TLV70028DSER	296-25291-2-ND	2.8V, 200mA LDO Regulator* **NEW!**	6-SON	780.00/3,000		
TLV70030DCKT	296-25273-1-ND	3V, 200mA LDO Regulator* **NEW!**	SC70-5	.82	.64	.56
TLV70030DCKT	296-25273-2-ND	3V, 200mA LDO Regulator* **NEW!**	SC70-5	109.25/250		
TLV70030DDCT	296-25274-1-ND	3V, 200mA LDO Regulator* **NEW!**	SOT-23-5	.82	.64	.56
TLV70030DDCT	296-25274-2-ND	3V, 200mA LDO Regulator* **NEW!**	SOT-23-5	109.25/250		
TLV70030DSET	296-25214-1-ND	3V, 200mA LDO Regulator* **NEW!**	6-SON	.89	.70	.61
TLV70030DSET	296-25214-2-ND	3V, 200mA LDO Regulator* **NEW!**	6-SON	119.25/250		
TLV70033DCKT	296-25275-1-ND	3.3V, 200mA LDO Regulator* **NEW!**	SC70-5	.82	.64	.56
TLV70033DCKT	296-25275-2-ND	3.3V, 200mA LDO Regulator* **NEW!**	SC70-5	109.25/250		
TLV70033DDCT	296-25276-1-ND	3.3V, 200mA LDO Regulator* **NEW!**	SOT-23-5	.82	.64	.56
TLV70033DDCT	296-25276-2-ND	3.3V, 200mA LDO Regulator* **NEW!**	SOT-23-5	109.25/250		
TLV70033DSET	296-25215-1-ND	3.3V, 200mA LDO Regulator* **NEW!**	6-SON	.89	.70	.61
TLV70033DSET	296-25215-2-ND	3.3V, 200mA LDO Regulator* **NEW!**	6-SON	119.25/250		
TPPM0110DWPR	296-10872-1-ND	Dual LDO Linear Regulator	20-HSOIC	6.00	4.90	4.40
TPPM0110DWPR	296-10872-2-ND	Dual LDO Linear Regulator	20-HSOIC	5320.00/2,000		
TPPM0111DWP	296-12507-5-ND	Dual LDO Linear Regulator	20-HSOIC	6.72	5.40	4.92
TPPM0301DR	296-10873-1-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	4.86	3.97	3.57
TPPM0301DR	296-10873-2-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	5386.50/2,500		
TPPM0302DGN	296-10874-5-ND	5V, 400mA LDO Voltage Regulator	8-MSOP	6.38	5.23	4.72
TPPM0303DR	296-10875-1-ND	5V, 250mA LDO Regulator	8-SOIC	4.20	3.43	3.08
TPPM0303DR	296-10875-2-ND	5V, 250mA LDO Regulator	8-SOIC	4655.00/2,500		
TPS7A4501KTTR	296-24782-1-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	4.35	3.56	3.19
TPS7A4501KTTR	296-24782-2-ND	Adjustable, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	5-DDPAK	1203.50/500		
TPS7A4515DCQR	296-25413-1-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	3.90	3.19	2.86
TPS7A4515DCQR	296-25413-2-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	4322.50/2,500		
TPS7A4515KTTR	296-23752-1-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	4.35	3.56	3.19
TPS7A4515KTTR	296-23752-2-ND	1.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1203.50/500		
TPS7A4518DCQR	296-25414-1-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	3.90	3.19	2.86
TPS7A4518DCQR	296-25414-2-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator* **NEW!**	SOT223-6	4322.50/2,500		
TPS7A4518KTTR	296-23753-1-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	4.35	3.56	3.19
TPS7A4518KTTR	296-23753-2-ND	1.8V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1203.50/500		
TPS7A4525KTTR	296-23754-1-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	4.35	3.56	3.19
TPS7A4525KTTR	296-23754-2-ND	2.5V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1203.50/500		
TPS7A4533KTTR	296-23755-1-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	4.35	3.56	3.19
TPS7A4533KTTR	296-23755-2-ND	3.3V, 1.5A LN Fast Transient Response LDO Regulator	5-DDPAK	1203.50/500		
TPS71H01QPWPR	296-8051-1-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	6.60	5.39	4.84
TPS71H01QPWPR	296-8051-2-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	5852.00/2,000		
TPS73HD301PWP	296-2666-5-ND	Dual Adjustable LDO Regulator	28-HTSSOP	6.25	5.13	4.63
TPS73HD318PWP	296-2667-5-ND	Dual 1.8V/3.3V 750mA LDO Regulator	28-HTSSOP	6.25	5.13	4.63
TPS73HD318PWPR	296-2667-1-ND	Dual 1.8V/3.3V 750mA LDO Regulator	28-HTSSOP	6.30	5.15	4.62
TPS73HD318PWPR	296-2667-2-ND	Dual 1.8V/3.3V 750mA LDO Regulator	28-HTSSOP	5586.00/2,000		
TPS73HD325PWPR	296-8071-1-ND	Dual 2.5V/3.3V 750mA LDO Regulator	28-HTSSOP	6.30	5.15	4.62
TPS73HD325PWPR	296-8071-2-ND	Dual 2.5V/3.3V 750mA LDO Regulator	28-HTSSOP	5586.00/2,000		
TPS712XXEVM-050	296-17873-ND	Evaluation Module for TPS712XX-050	—	10.20	—	—
TPS713XXEVM-050	296-21169-ND	Evaluation Module for TPS713XX	—	10.20	—	—
TPS715AXXEVM-065	296-21170-ND	Evaluation Module for TPS715AXX	—	10.20	—	—
TPS715A01DRBT	296-17614-1-ND	1.2V-15V, 80mA LDO Linear Reg.	8-SON	1.93	1.49	1.35
TPS715A01DRBT	296-17614-2-ND	1.2V-15V, 80mA LDO Linear Reg.	8-SON	275.00/250		
TPS715A33DRBT	296-17615-1-ND	3.3V, 80mA LDO Linear Regulator	8-SON	1.93	1.49	1.35
TPS715A33DRBT	296-17615-2-ND	3.3V, 80mA LDO Linear Regulator	8-SON	275.00/250		
TPS715A33DRVR	296-22584-1-ND	3.3V, 80mA LDO Linear Regulator	6-SON	1.86	1.47	1.33
TPS715A33DRVR	296-22584-2-ND	3.3V, 80mA LDO Linear Regulator	6-SON	2058.00/3,000		
TPS758A01KTTR	296-21900-1-ND	Adjustable, 3A LDO Regulator	5-DDPAK	7.16	5.94	5.40
TPS758A01KTTR	296-21900-2-ND	Adjustable, 3A LDO Regulator	5-DDPAK	2092.50/500		
TPS767D301MPWPREP	296-21351-1-ND	Dual Adj. 1.8V/3.3V LDO Regulator	28-HTSSOP	9.01	7.48	6.80
TPS767D301MPWPREP	296-21351-2-ND	Dual Adj. 1.8V/3.3V LDO Regulator	28-HTSSOP	8840.00/2,000		
TPS767D301PWP	296-2740-5-ND	Dual Adj. 1.8V/3.3V LDO Regulator	28-HTSSOP	6.58	5.29	4.82
TPS767D301QPWPRQ1	296-19002-1-ND	Dual Adj. 1.8V/3.3V LDO Regulator	28-HTSSOP	6.90	5.64	5.06
TPS767D301QPWPRQ1	296-19002-2-ND	Dual Adj. 1.8V/3.3V LDO Regulator	28-HTSSOP	6118.00/2,000		
TPS767D318QPWPRQ1	296-19003-1-ND	Dual 1.8V/3.3V LDO Regulator	28-HTSSOP	6.90	5.64	5.06
TPS767D318QPWPRQ1	296-19003-2-ND	Dual 1.8V/3.3V LDO Regualtor	28-HTSSOP	6118.00/2,000		
TPS767D318PWP	296-2741-5-ND	Dual 1.8V/3.3V LDO Regulator	28-HTSSOP	6.58	5.29	4.82
TPS767D325PWP	296-2742-5-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	6.58	5.29	4.82
TPS767D325QPWPREP	296-22515-1-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	3.00	2.45	2.20
TPS767D325QPWPREP	296-22515-2-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	2660.00/2,000		
TPS767D325QPWPRQ1	296-17532-1-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	6.90	5.64	5.06
TPS767D325QPWPRQ1	296-17532-2-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	6118.00/2,000		
TPS799XXEVM-105	296-21172-ND	Evaluation Module for TPS799XX	—	10.20	—	—
TPS2140IPWP	296-12564-5-ND	Adj. LDO, 3.3V Switch, Dual Current Limit	14-HTSSOP	4.76	3.83	3.49
TPS2141IPWP	296-12565-5-ND	Adj. LDO, 5V Switch, Dual Curr. Limit	14-HTSSOP	4.76	3.83	3.49

* *RoHS Compliant*

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(Continued)

TEXAS INSTRUMENTS DigiReel® (Cont.) POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2150IPWP	296-12566-5-ND	Adj. LDO, 3.3V Switch, Dual Current Limit	14-HTSSOP	4.76	3.83	3.49
TPS2151IPWP	296-12567-5-ND	Adj. LDO, 5V Switch, Dual Curr. Limit	14-HTSSOP	4.76	3.83	3.49
TPS7101QDR	296-1359-1-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-SOIC	3.90	3.19	2.86
TPS7101QDR	296-1359-2-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-SOIC	4322.50/2,500		
TPS7101QP	296-8041-5-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-Dip	3.64	2.93	2.67
TPS7101QPWR	296-8042-1-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	20-TSSOP	3.90	3.19	2.86
TPS7101QPWR	296-8042-2-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	20-TSSOP	3458.00/2,000		
TPS7133QD	296-2658-5-ND	3.3V, 500mA PMOS LDO Regulator	8-SOIC	4.48	3.60	3.28
TPS7133QP	296-8046-5-ND	3.3V, 500mA PMOS LDO Regulator	8-Dip	3.64	2.93	2.67
TPS7133QPWR	296-8047-1-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	3.90	3.19	2.86
TPS7133QPWR	296-8047-2-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	3458.00/2,000		
TPS7148QD	296-1961-5-ND	4.8V, 500mA LDO Regulator	8-SOIC	4.48	3.60	3.28
TPS7148QP	296-8048-5-ND	4.85V, 500mA LDO Regulator	8-Dip	3.64	2.93	2.67
TPS7150QD	296-8049-5-ND	5V, 500mA LDO Regulator	8-SOIC	4.48	3.60	3.28
TPS7150QP	296-8050-5-ND	5V, 500mA LDO Regulator	8-Dip	3.64	2.93	2.67
TPS7201QD	296-1360-5-ND	Adjustable 250mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS7201QDR	296-1360-1-ND	Adjustable 250mA LDO Regulator	8-SOIC	2.28	1.76	1.60
TPS7201QDR	296-1360-2-ND	Adjustable 250mA LDO Regulator	8-SOIC	2195.00/2,500		
TPS7201QP	296-8052-5-ND	Adjustable 250mA LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7201QPWR	296-8053-1-ND	Adjustable 250mA LDO Regulator	8-TSSOP	2.28	1.76	1.60
TPS7201QPWR	296-8053-2-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1755.00/2,000		
TPS7225QD	296-1962-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS7225QP	296-1963-5-ND	2.5V, 250mA LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7230QD	296-1964-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	2.02	1.63	1.47
TPS7230QP	296-1965-5-ND	3.0V, 250mA LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7230QPWR	296-8055-1-ND	3.0V, 250mA LDO Regulator	8-TSSOP	2.28	1.76	1.60
TPS7230QPWR	296-8055-2-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1755.00/2,000		
TPS7233QD	296-1966-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS7233QP	296-8056-5-ND	3.3V, 250mA LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7233QPWR	296-8057-1-ND	3.3V, 250mA LDO Regulator	8-TSSOP	2.28	1.76	1.60
TPS7233QPWR	296-8057-2-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1755.00/2,000		
TPS7248QD	296-8058-5-ND	4.85V, 250mA PMOS LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS7248QP	296-2659-5-ND	4.85V, 250mA PMOS LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7250QD	296-1361-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS7250QDR	296-1361-1-ND	5.0V, 250mA LDO Regulator	8-SOIC	2.28	1.76	1.60
TPS7250QDR	296-1361-2-ND	5.0V, 250mA LDO Regulator	8-SOIC	2193.75/2,500		
TPS7250QP	296-8059-5-ND	5.0V, 250mA LDO Regulator	8-Dip	2.02	1.63	1.47
TPS7250QPWR	296-8060-1-ND	5.0V, 250mA LDO Regulator	8-TSSOP	2.28	1.76	1.60
TPS7250QPWR	296-8060-2-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1755.00/2,000		
TPS7301QD	296-1362-5-ND	Adjustable 500mA LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS7301QDR	296-1362-1-ND	Adjustable 500mA LDO Regulator	8-SOIC	3.30	2.70	2.42
TPS7301QDR	296-1362-2-ND	Adjustable 500mA LDO Regulator	8-SOIC	3657.50/2,500		
TPS7301QP	296-2660-5-ND	Adjustable 500mA LDO Regulator	8-Dip	3.08	2.48	2.26
TPS7301QPW	296-8061-5-ND	Adjustable 500mA LDO Regulator	20-TSSOP	3.78	3.04	2.77
TPS7325QD	296-2661-5-ND	2.5V, 500mA LDO Reg., Delay Reset	8-SOIC	3.08	2.48	2.26
TPS7325QP	296-8062-5-ND	2.5V, 500mA LDO Reg., Delay Reset	8-Dip	3.08	2.48	2.26
TPS7325QPWR	296-8063-1-ND	2.5V, 500mA LDO Reg., Delay Reset	20-TSSOP	3.30	2.70	2.42
TPS7325QPWR	296-8063-2-ND	2.5V, 500mA LDO Reg., Delay Reset	20-TSSOP	2926.00/2,000		
TPS7330QD	296-2662-5-ND	3.0V, 500mA LDO Reg., Delay Reset	8-SOIC	3.78	3.04	2.77
TPS7330QDR	296-2662-1-ND	3.0V, 500mA LDO Reg., Delay Reset	8-SOIC	3.30	2.70	2.42
TPS7330QDR	296-2662-2-ND	3.0V, 500mA LDO Reg., Delay Reset	8-SOIC	3657.50/2,500		
TPS7330QP	296-8064-5-ND	3.0V, 500mA LDO Reg., Delay Reset	8-Dip	3.08	2.48	2.26
TPS7333QD	296-8066-5-ND	3.3V, 500mA LDO Reg., Delay Reset	8-SOIC	3.78	3.04	2.77
TPS7333QDR	296-8066-1-ND	3.3V, 500mA LDO Reg., Delay Reset	8-SOIC	3.30	2.70	2.42
TPS7333QDR	296-8066-2-ND	3.3V, 500mA LDO Reg., Delay Reset	8-SOIC	3657.50/2,500		
TPS7333QP	296-2663-5-ND	3.3V, 500mA LDO Reg., Delay Reset	8-Dip	3.08	2.48	2.26
TPS7333QPWR	296-8067-1-ND	3.3V, 500mA LDO Reg., Delay Reset	20-TSSOP	3.30	2.70	2.42
TPS7333QPWR	296-8067-2-ND	3.3V, 500mA LDO Reg., Delay Reset	20-TSSOP	2926.00/2,000		
TPS7348QD	296-8068-5-ND	4.85V, 500mA LDO Reg., Delay Reset	8-SOIC	3.78	3.04	2.77
TPS7348QDR	296-8068-1-ND	4.85V, 500mA LDO Reg., Delay Reset	8-SOIC	3.30	2.70	2.42
TPS7348QDR	296-8068-2-ND	4.85V, 500mA LDO Reg., Delay Reset	8-SOIC	3657.50/2,500		
TPS7348QP	296-2664-5-ND	4.85V, 500mA LDO Reg., Delay Reset	8-Dip	3.08	2.48	2.26
TPS7350QD	296-8069-5-ND	5.0V, 500mA LDO Reg., Delay Reset	8-SOIC	3.78	3.04	2.77
TPS7350QP	296-2665-5-ND	5.0V, 500mA LDO Reg., Delay Reset	8-Dip	3.08	2.48	2.26
TPS7350QPWR	296-8070-1-ND	5.0V, 500mA LDO Reg., Delay Reset	20-TSSOP	3.30	2.70	2.42
TPS7350QPWR	296-8070-2-ND	5.0V, 500mA LDO Reg., Delay Reset	20-TSSOP	2926.00/2,000		
TPS7415D	296-2668-5-ND	1.5V, 200mA LDO Regulator	8-SOIC	2.33	1.88	1.69
TPS7418D	296-2669-5-ND	1.8V, 200mA LDO Regulator	8-SOIC	2.33	1.88	1.69
TPS7425D	296-2670-5-ND	2.5V, 200mA LDO Regulator	8-SOIC	2.79	2.25	2.03
TPS7430D	296-2671-5-ND	3.0V, 200mA LDO Regulator	8-SOIC	2.33	1.88	1.69
TPS7433D	296-2672-5-ND	3.3V, 200mA LDO Regulator	8-SOIC	2.79	2.25	2.03
TPS51103DRCR	296-23707-1-ND	Integ. LDO, Switchover Circuit	10-SON	3.00	2.45	2.20
TPS51103DRCR	296-23707-2-ND	Integ. LDO, Switchover Circuit	10-SON	3990.00/3,000		
TPS70102PWP	296-2652-5-ND	Dual, Adj., 500mA LDO Regulator	20-HTSSOP	5.04	4.05	3.69
TPS70145PWP	296-2653-5-ND	Dual, 3.3V/1.2V, 500mA LDO Reg.	20-HTSSOP	6.30	5.07	4.62
TPS70148PWP	296-2654-5-ND	Dual, 3.3V/1.5V, 500mA LDO Reg.	20-HTSSOP	6.30	5.07	4.62
TPS70151EVM-152	296-10986-ND	Evaluation Module for TPS7015	—	101.00	—	—
TPS70151PWP	296-2655-5-ND	Dual, 3.3V/1.8V, 500mA LDO Reg.	20-HTSSOP	5.04	4.05	3.69
TPS70158PWP	296-2656-5-ND	Dual, 3.3V/2.5V, 500mA LDO Reg.	20-HTSSOP	6.30	5.07	4.62
TPS70202PWP	296-8016-5-ND	Dual, Adj., 500mA LDO Regulator	20-HTSSOP	6.30	5.07	4.62
TPS70245PWP	296-8017-5-ND	Dual, 3.3V/1.2V, 500mA/250mA LDO Regulator	20-HTSSOP	6.30	5.07	4.62
TPS70248PWP	296-8018-5-ND	Dual, 3.3V/1.5V, 500mA/250mA LDO Regulator	20-HTSSOP	6.30	5.07	4.62
TPS70251PWP	296-8019-5-ND	Dual, 3.3V/1.8V, 500mA/250mA LDO Regulator	20-HTSSOP	6.30	5.07	4.62
TPS70258PWP	296-8020-5-ND	Dual, 3.3V/2.5V, 500mA/250mA LDO Regulator	20-HTSSOP	6.30	5.07	4.62
TPS70302PWP	296-8021-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70345MPWPREP	296-21274-1-ND	Dual, 3.3V/1.2V, 1A/2A LDO Regulator	24-HTSSOP	10.60	8.80	8.00
TPS70345MPWPREP	296-21274-2-ND	Dual, 3.3V/1.2V, 1A/2A LDO Regulator	24-HTSSOP	10400.00/2,000		
TPS70345PWP	296-8022-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70348PWP	296-8023-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Regulator	20-HTSSOP	7.00	5.74	5.18
TPS70351EVM-165	296-10987-ND	Evaluation Module for TPS70351	—	101.00	—	—
TPS70351PWP	296-8024-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70358PWP	296-8025-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70402PWP	296-8026-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70445PWP	296-8027-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70448PWP	296-8028-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70451PWP	296-8029-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70458PWP	296-8030-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Regulator	24-HTSSOP	7.00	5.74	5.18
TPS70702PWP	296-8031-5-ND	Dual, Adj., 1A/2A LDO Regulator	20-HTSSOP	3.92	3.15	2.87
TPS70745PWP	296-8032-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	4.90	3.94	3.59
TPS70748PWP	296-8033-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.90	3.94	3.59
TPS70751MPWPREP	296-22479-1-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	8.11	6.74	6.12
TPS70751MPWPREP	296-22479-2-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	7956.00/2,000		
TPS70751PWP	296-8034-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	3.92	3.15	2.87
TPS70758PWP	296-8035-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.90	3.94	3.59
TPS70802PWP	296-8036-5-ND	Dual, Adjustable, LDO Regulator	20-HTSSOP	4.90	3.94	3.59
TPS70845PWP	296-8037-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	4.06	3.27	2.98
TPS70848PWP	296-8038-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.06	3.27	2.98
TPS70851PWP	296-8039-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	4.90	3.94	3.59
TPS70858PWP	296-8040-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	4.06	3.27	2.98
TPS71025D	296-8043-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	4.20	3.38	3.08
TPS71025DR	296-8043-1-ND	2.5V, 500mA LDO Regulator	8-SOIC	3.75	3.07	2.75
TPS71025DR	296-8043-2-ND	2.5V, 500mA LDO Regulator	8-SOIC	4157.50/2,500		
TPS71025P	296-2657-5-ND	2.5V, 500mA LDO Regulator	8-Dip	3.50	2.82	2.57
TPS71025PWR	296-8045-1-ND	2.5V, 500mA LDO Regulator	20-TSSOP	3.75	3.07	2.75
TPS71025PWR	296-8045-2-ND	2.5V, 500mA LDO Regulator	20-TSSOP	3325.00/2,000		
TPS71202DRCT	296-17696-1-ND	Dual 250mA Output, LDO Regulator	10-SON	3.33	2.57	2.33
TPS71202DRCT	296-17696-2-ND	Dual 250mA Output, LDO Regulator	10-SON	475.00/250		
TPS71202MDRCTEP	296-23866-1-ND	Dual 250mA Out, LDO Regulator	10-SON	7.16	5.94	5.40
TPS71202MDRCTEP	296-23866-2-ND	Dual 250mA Out, LDO Regulator	10-SON	1147.50/250		
TPS71219DRCT	296-17697-1-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	3.33	2.57	2.33
TPS71219DRCT	296-17697-2-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	475.00/250		
TPS71229DRCT	296-17698-1-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	3.33	2.57	2.33
TPS71229DRCT	296-17698-2-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	475.00/250		
TPS71247DRCT	296-17699-1-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	3.33	2.57	2.33
TPS71247DRCT	296-17699-2-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	475.00/250		
TPS71256DRCT	296-18281-1-ND	2.8V/2.8V, Dual 250mA Out, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	3.33	2.57	2.33
TPS71256DRCT	296-18281-2-ND	2.8V/2.8V, Dual 250mA Out, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	475.00/250		
TPS71257DRCT	296-17700-1-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	3.33	2.57	2.33
TPS71257DRCT	296-17700-2-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	475.00/250		
TPS71319DRCT	296-17739-1-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Reg.	10-SON	3.15	2.58	2.31
TPS71319DRCT	296-17739-2-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Reg.	10-SON	485.75/250		
TPS71334DRCT	296-17701-1-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	3.15	2.58	2.31
TPS71334DRCT	296-17701-2-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	485.75/250		
TPS71401DCKT	296-24450-1-ND	Adjustable, LDO Linear Reg.* ***NEW!***	SC70-5	1.49	1.18	1.06
TPS71401DCKT	296-24450-2-ND	Adjustable, LDO Linear Reg.* ***NEW!***	SC70-5	210.25/250		
TPS71401DRVR	296-24039-1-ND	80mA, Adj., LDO Linear Regulator	6-SON	1.48	1.17	1.06
TPS71401DRVR	296-24039-2-ND	80mA, Adj., LDO Linear Regulator	6-SON	1638.00/3,000		
TPS71433DCKT	296-24451-1-ND	3.3V, LDO Linear Regulator* ***NEW!***	SC70-5	1.49	1.18	1.06
TPS71433DCKT	296-24451-2-ND	3.3V, LDO Linear Regulator* ***NEW!***	SC70-5	210.25/250		
TPS71433DRVR	296-24040-1-ND	80mA, 3.3V, LDO Linear Regulator	6-SON	1.48	1.17	1.06
TPS71433DRVR	296-24040-2-ND	80mA, 3.3V, LDO Linear Regulator	6-SON	1638.00/3,000		
TPS71501DCKR	296-12957-1-ND	50mA, 24V, LDO Linear Regulator	SC70-5	1.29	1.02	.92
TPS71501DCKR	296-12957-2-ND	50mA, 24V, LDO Linear Regulator	SC70-5	1428.00/3,000		
TPS71501MDCKREP	296-23787-1-ND	50mA, 24V, LDO Linear Regulator	SC70-5	4.05	3.31	2.97
TPS71501MDCKREP	296-23787-2-ND	50mA, 24V, LDO Linear Regulator	SC70-5	5386.50/3,000		
TPS71501QDCKRQ1	296-17748-1-ND	50mA, 24V, LDO Linear Regulator	SC70-5	1.51	1.20	1.08
TPS71501QDCKRQ1	296-17748-2-ND	50mA, 24V, LDO Linear Regulator	SC70-5	1671.00/3,000		
TPS71518DCKR	296-18731-1-ND	1.8V, 50mA LDO Regulator	SC70-5	1.29	1.02	.92
TPS71518DCKR	296-18731-2-ND	1.8V, 50mA LDO Regulator	SC70-5	1428.00/3,000		
TPS71519DCKR	296-19479-1-ND	24V, 50mA, LDO Regulator	SC70-5	1.29	1.02	.92
TPS71519DCKR	296-19479-2-ND	24V, 50mA, LDO Regulator	SC70-5	1428.00/3,000		
TPS71523DCKR	296-19480-1-ND	24V, 50mA, LDO Regulator	SC70-5	1.29	1.02	.92
TPS71523DCKR	296-19480-2-ND	24V, 50mA, LDO Regulator	SC70-5	1428.00/3,000		
TPS71525DCKR	296-12007-1-ND	2.5V, 50mA High Input LDO Regulator	SC70-5	1.29	1.02	.92
TPS71525DCKR	296-12007-2-ND	2.5V, 50mA High Input LDO Regulator	SC70-5	1428.00/3,000		
TPS71525QDCKRQ1	296-20694-1-ND	2.5V, 50mA High Input LDO Regulator	SC70-5	1.51	1.20	1.08
TPS71525QDCKRQ1	296-20694-2-ND	2.5V, 50mA High Input LDO Regulator	SC70-5	1671.60/3,000		
TPS71530DCKR	296-15045-1-ND	3V, 50mA High Input LDO Regulator	SC70-5	1.29	1.02	.92
TPS71530DCKR	296-15045-2-ND	3V, 50mA High Input LDO Regulator	SC70-5	1428.00/3,000		
TPS71530QDCKRQ1	296-23436-1-ND	3V, 50mA High Input LDO Regulator	SC70-5	1.51	1.20	1.08
TPS71530QDCKRQ1	296-23436-2-ND	3V, 50mA High Input LDO Regulator	SC70-5	1671.60/3,000		
TPS71533DCKR	296-12008-1-ND	3.3V, 50mA High Input LDO Reg.	SC70-5	1.29	1.02	.92
TPS71533DCKR	296-12008-2-ND	3.3V, 50mA High Input LDO Reg.	SC70-5	1428.00/3,000		
TPS71533EVM	296-13590-ND	Evaluation Module for TPS71533	—	50.00	—	—
TPS71533QDCKRQ1	296-20667-1-ND	3.3V, 50mA High Input LDO Reg.	SC70-5	1.51	1.20	1.08
TPS71533QDCKRQ1	296-20667-2-ND	3.3V, 50mA High Input LDO Reg.	SC70-5	1671.60/3,000		
TPS71550DCKR	296-15046-1-ND	5V, 50mA High Input LDO Regulator	SC70-5	1.29	1.02	.92
TPS71550DCKR	296-15046-2-ND	5V, 50mA High Input LDO Regulator	SC70-5	1428.00/3,000		
TPS71550QDCKRQ1	296-18037-1-ND	24V, 50mA, 3.2μA Supply Current LDO Linear Regulator	SC70-5	1.51	1.20	1.08
TPS71550QDCKRQ1	296-18037-2-ND	24V, 50mA, 3.2μA Supply Current LDO Linear Regulator	SC70-5	1671.00/3,000		
TPS717XXEVM-134	296-19614-ND	Evaluation Module for TPS717XX	—	10.20	—	—
TPS71701DCKR	296-22896-1-ND	Adj., 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71701DCKR	296-22896-2-ND	Adj., 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71701DCKT	296-27042-1-ND	Adj., 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71701DCKT	296-27042-2-ND	Adj., 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71710DCKR	296-21524-1-ND	1V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71710DCKR	296-21524-2-ND	1V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71710DCKT	296-27043-1-ND	1V, 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71710DCKT	296-27043-2-ND	1V, 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71710DRVR	296-22984-1-ND	1V, 150mA LDO Regulator	6-SON	1.52	1.20	1.08
TPS71710DRVR	296-22984-2-ND	1V, 150mA LDO Regulator	6-SON	1680.00/3,000		
TPS71712DCKR	296-22480-1-ND	1.2V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71712DCKR	296-22480-2-ND	1.2V, 150mA LDO Regulator	SC70-5	1512.00/3,000		

* ***RoHS Compliant***

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(Continued)

TEXAS INSTRUMENTS Digi-Reel® (Cont.) POWER SUPPLY PRODUCTS
RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS71713DCKR	296-21350-1-ND	1.3V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71713DCKR	296-21350-2-ND	1.3V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71715DCKR	296-21504-1-ND	1.5V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71715DCKR	296-21504-2-ND	1.5V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71718DCKR	296-19646-1-ND	1.8V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71718DCKR	296-19646-2-ND	1.8V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71718DCKT	296-27044-1-ND	1.8V, 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71718DCKT	296-27044-2-ND	1.8V, 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71718DSER	296-22659-1-ND	1.8V, 150mA LDO Regulator	6-SON	1.52	1.20	1.08
TPS71718DSER	296-22659-2-ND	1.8V, 150mA LDO Regulator	6-SON	1680.00/3,000		
TPS71719DCKR	296-22679-1-ND	1.9V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71725DCKR	296-21525-1-ND	2.5V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71725DCKR	296-21525-2-ND	2.5V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71725DCKT	296-27045-1-ND	2.5V, 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71725DCKT	296-27045-2-ND	2.5V, 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71727DSET	296-24452-1-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	1.73	1.37	1.23
TPS71727DSET	296-24452-2-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	244.00/250		
TPS71728DCKR	296-19650-1-ND	2.8V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71728DSER	296-21976-1-ND	2.8V, 150mA LDO Regulator	6-SON	1.52	1.20	1.08
TPS71730DCKR	296-19674-1-ND	3V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71730DCKR	296-19674-2-ND	3V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71730DCKT	296-27046-1-ND	3V, 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71730DCKT	296-27046-2-ND	3V, 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71733DCKR	296-19675-1-ND	3.3V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS71733DCKR	296-19675-2-ND	3.3V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS71733DCKT	296-27047-1-ND	3.3V, 150mA LDO Regulator* ***NEW!***	SC70-5	1.57	1.25	1.12
TPS71733DCKT	296-27047-2-ND	3.3V, 150mA LDO Regulator* ***NEW!***	SC70-5	222.50/250		
TPS71733DSER	296-22054-1-ND	3.3V, 150mA LDO Regulator	6-SON	1.52	1.20	1.08
TPS71745DSER	296-24285-1-ND	4.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1.52	1.20	1.08
TPS71745DSER	296-24285-2-ND	4.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1680.00/3,000		
TPS71750DSER	296-25361-1-ND	5V, 150mA LDO Regulator* ***NEW!***	6-SON	1.52	1.20	1.08
TPS71750DSER	296-25361-2-ND	5V, 150mA LDO Regulator* ***NEW!***	6-SON	1680.00/3,000		
TPS71750DSET	296-25447-1-ND	5V, 150mA LDO Regulator* ***NEW!***	6-SON	1.73	1.37	1.23
TPS71750DSET	296-25447-2-ND	5V, 150mA LDO Regulator* ***NEW!***	6-SON	244.00/250		
TPS71812-33DRVR	296-22009-1-ND	3.3V, Dual, 200mA LDO Regulator	6-SON	1.93	1.49	1.35
TPS71812-33DRVR	296-22009-2-ND	3.3V, Dual, 200mA LDO Regulator	6-SON	2227.50/3,000		
TPS71818-33DRVT	296-24872-1-ND	3.3V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2.28	1.76	1.60
TPS71818-33DRVT	296-24872-2-ND	3.3V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	325.00/250		
TPS71825-12DRVR	296-24297-1-ND	1.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2.45	1.89	1.72
TPS71825-12DRVR	296-24297-2-ND	1.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2835.00/3,000		
TPS71825-12DRVT	296-24393-1-ND	1.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2.80	2.16	1.96
TPS71825-12DRVT	296-24393-2-ND	1.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	400.00/250		
TPS71828-30DRVR	296-22482-1-ND	3V, Dual, 200mA LDO Regulator	6-SON	1.93	1.49	1.35
TPS71828-30DRVR	296-22482-2-ND	3V, Dual, 200mA LDO Regulator	6-SON	2227.50/3,000		
TPS71918-28DRVR	296-24833-1-ND	2.8V, Dual, 200mA LDO Reg.* ***NEW!***	6-SON	2.45	1.89	1.72
TPS71918-28DRVR	296-24833-2-ND	2.8V, Dual, 200mA LDO Reg.* ***NEW!***	6-SON	2835.00/3,000		
TPS71921-22DRVR	296-24298-1-ND	2.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2.45	1.89	1.72
TPS71921-22DRVR	296-24298-2-ND	2.2V, Dual 200mA LDO Reg.* ***NEW!***	6-SON	2835.00/3,000		
TPS71921-22DRVT	296-24394-1-ND	2.2V, Dual, 200mA LDO Reg.* ***NEW!***	6-SON	2.80	2.16	1.96
TPS71921-22DRVT	296-24394-2-ND	2.2V, Dual, 200mA LDO Reg.* ***NEW!***	6-SON	400.00/250		
TPS71933-33DRVR	296-21662-1-ND	3.3V, Dual, 200mA LDO Regulator	6-SON	1.93	1.49	1.35
TPS72010DRVT	296-25806-1-ND	1V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	1.82	1.41	1.28
TPS72010DRVT	296-25806-2-ND	1V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	260.00/250		
TPS72012DRVT	296-25807-1-ND	1.2V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	2.00	1.54	1.40
TPS72012DRVT	296-25807-2-ND	1.2V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	285.00/250		
TPS72012YZUT	296-24628-1-ND	1.2V, 350mA LDO Regulator* ***NEW!***	5-DSBGA	1.82	1.41	1.28
TPS72012YZUT	296-24628-2-ND	1.2V, 350mA LDO Regulator* ***NEW!***	5-DSBGA	260.00/250		
TPS72015DRVT	296-25808-1-ND	1.5V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	1.82	1.41	1.28
TPS72015DRVT	296-25808-2-ND	1.5V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	260.00/250		
TPS72018DRVT	296-25809-1-ND	1.8V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	1.82	1.41	1.28
TPS72018DRVT	296-25809-2-ND	1.8V, Single, 350mA LDO Reg.* ***NEW!***	6-SON	260.00/250		
TPS72018YZUR	296-23778-1-ND	1.8V, 350mA, RF LDO Linear Reg.	5-DSBGA	1.73	1.37	1.24
TPS72116DBVT	296-12519-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	1.79	1.42	1.28
TPS72118DBVT	296-12520-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.79	1.42	1.28
TPS72118DBVT	296-12520-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	253.75/250		
TPS72218DBVR	296-27048-1-ND	1.8V, 50mA LDO Regulator* ***NEW!***	SOT-23-5	1.56	1.23	1.11
TPS72218DBVR	296-27048-2-ND	1.8V, 50mA LDO Regulator* ***NEW!***	SOT-23-5	1722.00/3,000		
TPS72218DBVT	296-12523-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.79	1.42	1.28
TPS72218DBVT	296-12523-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	253.75/250		
TPS72301DBVR	296-27049-1-ND	Adj., 200mA LDO Regulator* ***NEW!***	SOT-23-5	3.15	2.58	2.31
TPS72301DBVR	296-27049-2-ND	Adj., 200mA LDO Regulator* ***NEW!***	SOT-23-5	4191.00/3,000		
TPS72301DBVT	296-15798-1-ND	Adj., 200mA LDO Regulator	SOT-23-5	3.75	3.07	2.75
TPS72301DBVT	296-15798-2-ND	Adj., 200mA LDO Regulator	SOT-23-5	578.25/250		
TPS72325DBVT	296-15799-1-ND	2.5V, 200mA LDO Regulator	SOT-23-5	3.75	3.07	2.75
TPS72325DBVT	296-15799-2-ND	2.5V, 200mA LDO Regulator	SOT-23-5	578.25/250		
TPS72501DCQ	296-27050-5-ND	1.22V~5.5V, 1A LDO Linear Reg.* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS72501DCQR	296-13524-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-6	3.30	2.70	2.42
TPS72501DCQR	296-13524-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-6	3657.50/2,500		
TPS72515DCQ	296-27051-5-ND	1.5V, 1A LDO Linear Regulator* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS72515DCQR	296-12692-1-ND	1.5V, 1A LDO Linear Regulator	SOT-223-6	3.30	2.70	2.42
TPS72515DCQR	296-12692-2-ND	1.5V, 1A LDO Linear Regulator	SOT-223-6	3657.50/2,500		
TPS72516DCQ	296-14393-5-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	3.78	3.04	2.77
TPS72516DCQR	296-14420-1-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	3.30	2.70	2.42
TPS72516DCQR	296-14420-2-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	3657.50/2,500		
TPS72518DCQ	296-27052-5-ND	1.8V, 1A LDO Linear Regulator* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS72518DCQR	296-12694-1-ND	1.8V, 1A LDO Linear Regulator	SOT-223-6	3.30	2.70	2.42
TPS72518DCQR	296-12694-2-ND	1.8V, 1A LDO Linear Regulator	SOT-223-6	3657.50/2,500		
TPS72518EVM-207	296-20624-ND	Evaluation Module for TPS72518	—	50.00	—	—
TPS72518KTTT	296-12695-1-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	4.50	3.68	—
TPS72525DCQ	296-27053-5-ND	2.5V, 1A LDO Linear Regulator* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS72525KTTT	296-12697-1-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	4.50	3.68	—
TPS72615DCQ	296-27054-5-ND	1.5V, 1A LDO Linear Regulator* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS72615KTTT	296-13751-1-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	4.50	3.68	—
TPS72615KTTT	296-13751-2-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	168.75/50		
TPS72625DCQR	296-12960-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3.30	2.70	2.42
TPS72625DCQR	296-12960-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3657.50/2,500		
TPS72715DSET	296-25191-1-ND	1.5V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	1.93	1.49	1.35
TPS72715DSET	296-25191-2-ND	1.5V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	275.00/250		
TPS72715YFFT	296-25238-1-ND	1.5V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	2.10	1.62	1.47
TPS72715YFFT	296-25238-2-ND	1.5V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	300.00/250		
TPS72718DSET	296-25192-1-ND	1.8V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	1.93	1.49	1.35
TPS72718DSET	296-25192-2-ND	1.8V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	275.00/250		
TPS72718YFFT	296-25239-1-ND	1.8V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	2.10	1.62	1.47
TPS72718YFFT	296-25239-2-ND	1.8V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	300.00/250		
TPS72728DSET	296-25193-1-ND	2.8V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	1.93	1.49	1.35
TPS72728DSET	296-25193-2-ND	2.8V, 250mA, LDO Linear Regulator* ***NEW!***	6-SON	275.00/250		
TPS72728YFFT	296-25240-1-ND	2.8V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	2.10	1.62	1.47
TPS72728YFFT	296-25240-2-ND	2.8V, 250mA, LDO Linear Regulator* ***NEW!***	4-DSBGA	300.00/250		
TPS73001DBVT	296-17576-1-ND	1.22V to 5.5V LDO Regulator	SOT-23-5	.98	.76	.67
TPS73001DBVT	296-17576-2-ND	1.22V to 5.5V LDO Regulator	SOT-23-5	130.50/250		
TPS73018DBVT	296-17577-1-ND	1.8V LDO Regulator	SOT-23-5	.98	.76	.67
TPS73018DBVT	296-17577-2-ND	1.8V LDO Regulator	SOT-23-5	130.50/250		
TPS73025DBVR	296-17578-1-ND	2.5V LDO Regulator	SOT-23-5	.81	.63	.56
TPS73025DBVR	296-17578-2-ND	2.5V LDO Regulator	SOT-23-5	804.00/3,000		
TPS73028DBVT	296-18063-1-ND	2.8V LDO Regulator	SOT-23-5	.94	.73	.64
TPS73028DBVT	296-18063-2-ND	2.8V LDO Regulator	SOT-23-5	125.25/250		
TPS73030DBVT	296-17579-1-ND	3V LDO Regulator	SOT-23-5	.98	.76	.67
TPS73030DBVT	296-17579-2-ND	3V LDO Regulator	SOT-23-5	130.50/250		
TPS73033DBVR	296-17580-1-ND	3.3V LDO Regulator	SOT-23-5	.85	.66	.58
TPS73033DBVR	296-17580-2-ND	3.3V LDO Regulator	SOT-23-5	840.00/3,000		
TPS73047DBVR	296-20713-1-ND	200mA LDO Regulator	SOT-23-5	.91	.71	.63
TPS73101DBVT	296-15800-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73101DBVT	296-15800-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73101MDBVREP	296-21275-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	3.30	2.70	2.42
TPS73118DBVR	296-27059-1-ND	1.8V, 150mA LDO Regulator* ***NEW!***	SOT-23-5	1.63	1.29	1.16
TPS73118DBVR	296-27059-2-ND	1.8V, 150mA LDO Regulator* ***NEW!***	SOT-23-5	1797.00/3,000		
TPS73118DBVT	296-15802-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73118DBVT	296-15802-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73118MDBVREP	296-22485-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	3.30	2.70	2.42
TPS73125DBVT	296-15803-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73125DBVT	296-15803-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73130DBVT	296-15804-1-ND	3V, 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73130DBVT	296-15804-2-ND	3V, 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73133DBVT	296-15805-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73133DBVT	296-15805-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73150DBVT	296-15806-1-ND	5V, 150mA LDO Regulator	SOT-23-5	1.82	1.41	1.28
TPS73150DBVT	296-15806-2-ND	5V, 150mA LDO Regulator	SOT-23-5	260.00/250		
TPS73201DBVT	296-15807-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73201DBVT	296-15807-2-ND	Adj., 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73201DCQR	296-16861-1-ND	Adj., 250mA LDO Regulator	SOT-223-6	2.49	1.92	1.74
TPS73201DCQR	296-16861-2-ND	Adj., 250mA LDO Regulator	SOT-223-6	2396.25/2,500		
TPS73201MDBVREP	296-21277-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	4.74	3.88	3.48
TPS73201QDBVRQ1	296-19676-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	2.66	2.06	1.87
TPS73201QDBVRQ1	296-19676-2-ND	Adj., 250mA LDO Regulator	SOT-23-5	3078.00/3,000		
TPS73201QDRBRQ1	296-24321-1-ND	Adj., 250mA LDO Regulator* ***NEW!***	8-SON	2.66	2.06	1.87
TPS73201QDRBRQ1	296-24321-2-ND	Adj., 250mA LDO Regulator* ***NEW!***	8-SON	3078.00/3,000		
TPS73213DBVR	296-20714-1-ND	250mA LDO Regulator	SOT-23-5	2.17	1.68	1.52
TPS73213DBVR	296-20714-2-ND	250mA LDO Regulator	SOT-23-5	2511.00/3,000		
TPS73215DBVT	296-15808-1-ND	1.5V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73215DBVT	296-15808-2-ND	1.5V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73218DCQR	296-16863-1-ND	1.8V, 250mA LDO Regulator	SOT-223-6	2.49	1.92	1.74
TPS73218DCQR	296-16863-2-ND	1.8V, 250mA LDO Regulator	SOT-223-6	2396.25/2,500		
TPS73218DBVT	296-15809-1-ND	1.8V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73218DBVT	296-15809-2-ND	1.8V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73218MDBVREP	296-22493-1-ND	1.8V, 250mA LDO Regulator	SOT-23-5	4.74	3.88	3.48
TPS73225DBVT	296-15810-1-ND	2.5V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73225DBVT	296-15810-2-ND	2.5V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73225DCQR	296-16864-1-ND	2.5V, 250mA LDO Regulator	SOT-223-6	2.49	1.92	1.74
TPS73225DCQR	296-16864-2-ND	2.5V, 250mA LDO Regulator	SOT-223-6	2396.25/2,500		
TPS73230DBVT	296-15811-1-ND	3V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73230DBVT	296-15811-2-ND	3V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73233DBVT	296-15812-1-ND	3.3V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73233DBVT	296-15812-2-ND	3.3V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73233DCQR	296-16866-1-ND	3.3V, 250mA LDO Regulator	SOT-223-6	2.49	1.92	1.74
TPS73233DCQR	296-16866-2-ND	3.3V, 250mA LDO Regulator	SOT-223-6	2396.25/2,500		
TPS73233MDBVREP	296-22496-1-ND	3.3V, 250mA LDO Regulator	SOT-23-5	4.74	3.88	3.48
TPS73250DBVT	296-15813-1-ND	5V, 250mA LDO Regulator	SOT-23-5	2.49	1.92	1.74
TPS73250DBVT	296-15813-2-ND	5V, 250mA LDO Regulator	SOT-23-5	355.00/250		
TPS73401DDCT	296-25163-1-ND	Adj., 250mA LDO Regulator* ***NEW!***	5-SOT	1.53	1.21	1.09
TPS73401DDCT	296-25163-2-ND	Adj., 250mA LDO Regulator* ***NEW!***	5-SOT	216.50/250		
TPS73401DRVT	296-24286-1-ND	Adj., 250mA LDO Regulator* ***NEW!***	6-SON	1.72	1.36	1.23
TPS73401DRVT	296-24286-2-ND	Adj., 250mA LDO Regulator* ***NEW!***	6-SON	243.50/250		
TPS73418DRVT	296-24287-1-ND	1.8V, 250mA LDO Regulator* ***NEW!***	6-SON	1.72	1.36	1.23
TPS73418DRVT	296-24287-2-ND	1.8V, 250mA LDO Regulator* ***NEW!***	6-SON	243.50/250		
TPS73430DRVT	296-24288-1-ND	3V, 250mA LDO Regulator* ***NEW!***	6-SON	1.72	1.36	1.23
TPS73430DRVT	296-24288-2-ND	3V, 250mA LDO Regulator* ***NEW!***	6-SON	243.50/250		
TPS73433DDCT	296-25164-1-ND	3.3V, 250mA, LDO Regulator* ***NEW!***	5-SOT	1.53	1.21	1.09
TPS73433DDCT	296-25164-2-ND	3.3V, 250mA, LDO Regulator* ***NEW!***	5-SOT	216.50/250		
TPS73433DRVR	296-24174-1-ND	3.3V, 250mA, LDO Regulator	6-SON	1.52	1.20	1.08
TPS73501DRBT	296-24873-1-ND	Adj., 500mA, LDO Regulator* ***NEW!***	8-SON	2.28	1.76	1.60
TPS73501DRBT	296-24873-2-ND	Adj., 500mA, LDO Regulator* ***NEW!***	8-SON	325.00/250		
TPS73533DRBT	296-24854-1-ND	3.3V, 500mA LDO Regulator* ***NEW!***	8-SON	2.28	1.76	1.60

* *RoHS Compliant*

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(Continued)

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Texas Instruments **DigiReel®** *(Cont.)*

POWER SUPPLY PRODUCTS

RoHS Compliant Parts Available

T.I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TPS73533DRBT	296-24854-2-ND	3.3V, 500mA LDO Regulator* ***NEW!***	8-SON	325.00/250		
TPS73533DRVT	296-24289-1-ND	3.3V, 500mA LDO Regulator* ***NEW!***	6-SON	2.45	1.89	1.72
TPS73533DRVT	296-24289-2-ND	3.3V, 500mA LDO Regulator* ***NEW!***	6-SON	350.00/250		
TPS73601DBVR	296-18255-1-ND	Adj., 400mA LDO Regulator	SOT-23-5	2.84	2.19	1.99
TPS73601DBVR	296-18255-2-ND	Adj., 400mA LDO Regulator	SOT-23-5	3282.00/3,000		
TPS73601DBVT	296-15814-1-ND	Adj., 400mA LDO Regulator	SOT-23-5	3.33	2.57	2.33
TPS73601DBVT	296-15814-2-ND	Adj., 400mA LDO Regulator	SOT-23-5	475.00/250		
TPS73601DCQ	296-27061-5-ND	Adj., 400mA LDO Regulator* ***NEW!***	SOT-233-6	2.94	2.37	2.16
TPS73601DCQR	296-16909-1-ND	Adj., 400mA LDO Regulator	SOT-223-6	3.15	2.43	2.21
TPS73601DCQR	296-16909-2-ND	Adj., 400mA LDO Regulator	SOT-223-6	3037.50/2,500		
TPS73601DRBR	296-27062-1-ND	Adj., 400mA LDO Regulator* ***NEW!***	8-SON	3.15	2.43	2.21
TPS73601DRBR	296-27062-2-ND	Adj., 400mA LDO Regulator* ***NEW!***	8-SON	3645.00/3,000		
TPS73601DRBT	296-17620-1-ND	Adj., 400mA LDO Regulator	8-SON	3.00	2.45	2.20
TPS73601DRBT	296-17620-2-ND	Adj., 400mA LDO Regulator	8-SON	462.50/250		
TPS73601MDCQREP	296-23483-1-ND	Adj., 400mA LDO Regulator	SOT-223-6	5.40	4.41	3.96
TPS73615DBVT	296-15815-1-ND	1.5V, 400mA LDO Regulator	SOT-23-5	3.33	2.57	2.33
TPS73615DBVT	296-15815-2-ND	1.5V, 400mA LDO Regulator	SOT-23-5	475.00/250		
TPS73615DCQR	296-16910-1-ND	1.5V, 400mA LDO Regulator	SOT-223-6	3.15	2.43	2.21
TPS73615DRBT	296-18640-1-ND	1.5V, 400mA LDO Regulator	8-SON	3.00	2.45	2.20
TPS73616DBVR	296-24371-1-ND	1.7V, 400mA LDO Regulator* ***NEW!***	SOT-23-5	2.84	2.19	1.99
TPS73616DBVR	296-24371-2-ND	1.7V, 400mA LDO Regulator* ***NEW!***	SOT-23-5	3280.50/3,000		
TPS73618DBVR	296-27063-1-ND	1.8V, 400mA LDO Regulator* ***NEW!***	SOT-23-5	2.84	2.19	1.99
TPS73618DBVR	296-27063-2-ND	1.8V, 400mA LDO Regulator* ***NEW!***	SOT-23-5	3282.00/3,000		
TPS73618DBVT	296-15816-1-ND	1.8V, 400mA LDO Regulator	SOT-23-5	3.33	2.57	2.33
TPS73618DBVT	296-15816-2-ND	1.8V, 400mA LDO Regulator	SOT-23-5	475.00/250		
TPS73618DCQR	296-16911-1-ND	1.8V, 400mA LDO Regulator	SOT-223-6	3.15	2.43	2.21
TPS73618MDBVREP	296-21279-1-ND	1.8V, 400mA LDO Regulator	SOT-23-5	6.21	5.08	4.56
TPS73619DRBR	296-23553-1-ND	1.9V, NMOS, 400mA LDO Regulator	8-SON	3.15	2.43	2.21
TPS73625DBVT	296-15817-1-ND	2.5V, 400mA LDO Regulator	SOT-23-5	3.33	2.57	2.33
TPS73625DBVT	296-15817-2-ND	2.5V, 400mA LDO Regulator	SOT-23-5	475.00/250		
TPS73625DCQR	296-16912-1-ND	2.5V, 400mA LDO Regulator	SOT-223-6	3.15	2.43	2.21
TPS73625MDBVREP	296-21280-1-ND	2.5V, 400mA LDO Regulator	SOT-23-5	6.21	5.08	4.56
TPS73630MDBVREP	296-21281-1-ND	3V, 400mA LDO Regulator	SOT-23-5	6.21	5.08	4.56
TPS73632MDBVREP	296-21282-1-ND	3.2V, 400mA LDO Regulator	SOT-23-5	6.21	5.08	4.56
TPS73633DBVT	296-15819-1-ND	3.3V, 400mA LDO Regulator	SOT-23-5	3.33	2.57	2.33
TPS73633DBVT	296-15819-2-ND	3.3V, 400mA LDO Regulator	SOT-23-5	475.00/250		
TPS73633DCQ	296-27065-5-ND	3.3V, 400mA LDO Regulator* ***NEW!***	SOT-223-6	2.94	2.37	2.16
TPS73633DCQR	296-16914-1-ND	3.3V, 400mA LDO Regulator	SOT-223-6	3.15	2.43	2.21
TPS73633DCQR	296-16914-2-ND	3.3V, 400mA LDO Regulator	SOT-223-6	3037.50/2,500		
TPS73633DRBR	296-17884-1-ND	3.3V, 400mA LDO Regulator	8-SON	3.15	2.43	2.21
TPS73633DRBR	296-17884-2-ND	3.3V, 400mA LDO Regulator	8-SON	3645.00/3,000		
TPS73633EVM-066	296-19001-ND	Evaluation Module for TPS73633-066	—	10.20	—	—
TPS73633MDBVREP	296-21283-1-ND	3.3V, 400mA LDO Regulator	SOT-23-5	6.21	5.08	4.56
TPS73643DBVR	296-17498-1-ND	4.3V, 400mA LDO Regulator	SOT-23-5	2.84	2.19	1.99
TPS73643DBVR	296-17498-2-ND	4.3V, 400mA LDO Regulator	SOT-23-5	3282.00/3,000		
TPS73701DCQ	296-19481-5-ND	Adjustable, 1A LDO Regulator	SOT-223-6	2.17	1.75	1.58
TPS73701DRBR	296-22065-1-ND	Adjustable, 1A LDO Regulator	8-SON	2.10	1.62	1.47
TPS73701DRBR	296-22065-2-ND	Adjustable, 1A LDO Regulator	8-SON	2430.00/3,000		
TPS73718DCQ	296-27068-5-ND	1.8V, 1A LDO Regulator* ***NEW!***	SOT-223-6	2.17	1.75	1.58
TPS73733DCQ	296-24814-5-ND	3.3V, 1A LDO Regulator* ***NEW!***	SOT-223-6	2.17	1.75	1.58
TPS73733QDRBRQ1	296-24157-1-ND	3.3V, 1A LDO Regulator	8-SON	2.45	1.89	1.72
TPS73733QDRBRQ1	296-24157-2-ND	3.3V, 1A LDO Regulator	8-SON	2835.00/3,000		
TPS73734DCQR	296-24574-1-ND	3.4V, 1A LDO Regulator* ***NEW!***	SOT-223-6	2.10	1.62	1.47
TPS73734DCQR	296-24574-2-ND	3.4V, 1A LDO Regulator* ***NEW!***	SOT-223-6	2025.00/2,500		
TPS74201KTWT	296-21505-1-ND	Adjustable, 1.5A LDO with Prog. SS	7-DDPAK	6.76	5.61	—
TPS74201KTWT	296-21505-2-ND	Adjustable, 1.5A LDO with Prog. SS	7-DDPAK	261.40/50		
TPS74201RGWR	296-19890-1-ND	Adjustable, 1.5A LDO with Prog. SS	20-VQFN	6.00	4.90	4.40
TPS74201RGWR	296-19890-2-ND	Adjustable, 1.5A LDO with Prog. SS	20-VQFN	7980.00/3,000		
TPS74201RGWT	296-19891-1-ND	Adjustable, 1.5A LDO with Prog. SS	20-VQFN	6.90	5.64	5.06
TPS74201RGWT	296-19891-2-ND	Adjustable, 1.5A LDO with Prog. SS	20-VQFN	1063.75/250		
TPS74401KTWT	296-21507-1-ND	Adjustable, 3A LDO Regulator	7-DDPAK	9.01	7.48	—
TPS74401KTWT	296-21507-2-ND	Adjustable, 3A LDO Regulator	7-DDPAK	348.50/50		
TPS74401RGWR	296-27070-1-ND	Adjustable, 3A LDO Reg.* ***NEW!***	20-VQFN	7.29	6.05	5.50
TPS74401RGWR	296-27070-2-ND	Adjustable, 3A LDO Reg.* ***NEW!***	20-VQFN	10725.00/3,000		
TPS74401RGWT	296-19893-1-ND	Adjustable, 3A LDO Regulator	20-VQFN	8.48	7.04	6.40
TPS74401RGWT	296-19893-2-ND	Adjustable, 3A LDO Regulator	20-VQFN	1360.00/250		
TPS74701DRCR	296-22987-1-ND	Adjustable, 500mA LDO Regulator	10-SON	2.63	2.03	1.84
TPS74701DRCR	296-22987-2-ND	Adjustable, 500mA LDO Regulator	10-SON	3039.00/3,000		
TPS74701DRCT	296-27071-1-ND	Adjustable, 500mA LDO Reg.* ***NEW!***	10-SON	3.15	2.43	2.21
TPS74701DRCT	296-27071-2-ND	Adjustable, 500mA LDO Reg.* ***NEW!***	10-SON	450.00/250		
TPS74801DRCR	296-21563-1-ND	Adjustable, 1.5A LDO Regulator	10-SON	3.00	2.45	2.20
TPS74801DRCR	296-21563-2-ND	Adjustable, 1.5A LDO Regulator	10-SON	3990.00/3,000		
TPS74801DRCT	296-27072-1-ND	Adjustable, 1.5A LDO Reg.* ***NEW!***	10-SON	3.45	2.82	2.53
TPS74801DRCT	296-27072-2-ND	Adjustable, 1.5A LDO Reg.* ***NEW!***	10-SON	532.00/250		
TPS74801RGWR	296-21977-1-ND	1.5A LDO Regulator	20-VQFN	3.00	2.45	2.20
TPS74901KTWR	296-21991-1-ND	3A LDO Regulator	7-DDPAK	5.25	4.29	3.85
TPS74901RGWR	296-22498-1-ND	3A LDO Regulator	20-VQFN	4.50	3.68	3.30
TPS74901RGWR	296-22498-2-ND	3A LDO Regulator	20-VQFN	5985.00/3,000		
TPS75101QPWP	296-2673-5-ND	Adjustable, 1.5A LDO Regulator	20-HTSSOP	6.72	5.40	4.92
TPS75115QPWP	296-2674-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	6.72	5.40	4.92
TPS75118QPWP	296-2675-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	6.72	5.40	4.92
TPS75125QPWP	296-2676-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	6.72	5.40	4.92
TPS75133QPWP	296-2677-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	6.72	5.40	4.92
TPS75201MPWPREP	296-22502-1-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	8.11	6.74	6.12
TPS75201QPWP	296-2678-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	6.02	4.84	4.41
TPS75215QPWP	296-2679-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	6.02	4.84	4.41
TPS75218QPWP	296-2680-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	6.02	4.84	4.41
TPS75218QPWPREP	296-20791-1-ND	1.8V, 2A LDO Regulator	20-HTSSOP	7.35	6.01	5.39
TPS75225QPWP	296-2681-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	6.02	4.84	4.41
TPS75233QPWP	296-2682-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	6.02	4.84	4.41
TPS75233QPWPRQ1	296-15280-1-ND	3.3V, 2A LDO Regulator	20-HTSSOP	6.30	5.15	4.62
TPS75301QPWP	296-2683-5-ND	Adjustable, 1.5A LDO Regulator	20-HTSSOP	6.38	5.23	4.72
TPS75315QPWP	296-2684-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	6.38	5.23	4.72
TPS75318QPWP	296-2685-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	6.38	5.23	4.72
TPS75325QPWP	296-2686-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	6.38	5.23	4.72
TPS75333QPWP	296-2687-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	5.74	4.62	4.21
TPS75401QPWP	296-2688-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	5.88	4.73	4.31
TPS75415QPWP	296-2689-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	5.88	4.73	4.31
TPS75418QPWP	296-2690-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	5.88	4.73	4.31
TPS75425QPWP	296-2691-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	5.88	4.73	4.31
TPS75433QPWP	296-2692-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	5.88	4.73	4.31
TPS75501KC	296-10988-5-ND	Adjustable, 5A LDO Regulator	TO-220	7.50	6.15	5.55
TPS75501KTTT	296-15992-1-ND	Adjustable, 5A LDO Regulator	TO-263-5	9.14	7.59	—
TPS75501KTTT	296-15992-2-ND	Adjustable, 5A LDO Regulator	TO-263-5	353.65/50		
TPS75515KC	296-10990-5-ND	1.5V, 5A LDO Regulator	TO-220	7.50	6.15	5.55
TPS75515KTTT	296-15911-1-ND	1.5V, 5A LDO Regulator	TO-263-5	9.14	7.59	—
TPS75515KTTT	296-15911-2-ND	1.5V, 5A LDO Regulator	TO-263-5	353.65/50		
TPS75518KC	296-10992-5-ND	1.8V, 5A LDO Regulator	TO-220	7.50	6.15	5.55
TPS75525KC	296-10994-5-ND	2.5V, 5A LDO Regulator	TO-220	7.50	6.15	5.55
TPS75525EVM	296-13591-ND	Evaluation Module for TPS75525	—	50.00	—	—
TPS75533KC	296-10996-5-ND	3.3V, 5A LDO Regulator	TO-220	9.38	7.69	6.94
TPS75533KTTT	296-15914-1-ND	3.3V, 5A LDO Regulator	TO-263-5	11.40	9.46	—
TPS75533KTTT	296-15914-2-ND	3.3V, 5A LDO Regulator	TO-263-5	440.75/50		
TPS75601KC	296-11947-5-ND	Adjustable, 5A LDO Regulator	TO-220-5	7.50	6.15	5.55
TPS75615KC	296-11949-5-ND	1.5V, 5A LDO Regulator	TO-220-5	7.50	6.15	5.55
TPS75618KC	296-11951-5-ND	1.8V, 5A LDO Regulator	TO-220-5	7.50	6.15	5.55
TPS75625KC	296-11953-5-ND	2.5V, 5A LDO Regulator	TO-220-5	7.50	6.15	5.55
TPS75633KC	296-11955-5-ND	3.3V, 5A LDO Regulator	TO-220-5	7.50	6.15	5.55
TPS75633KTTT	296-15919-1-ND	3.3V, 5A LDO Regulator	TO-263-5	9.14	7.59	—
TPS75633KTTT	296-15919-2-ND	3.3V, 5A LDO Regulator	TO-263-5	353.65/50		
TPS75701KC	296-10998-5-ND	Adjustable, 3A LDO Regulator	TO-220	8.50	6.97	6.29
TPS75701KTTT	296-15920-1-ND	Adjustable, 3A LDO Regulator	TO-263-5	10.34	8.58	—
TPS75715KC	296-11000-5-ND	1.5V, 3A LDO Regulator	TO-220	8.50	6.97	6.29
TPS75715KTTT	296-15921-1-ND	1.5V, 3A LDO Regulator	TO-263-5	10.34	8.58	—
TPS75718KC	296-11002-5-ND	1.8V, 3A LDO Regulator	TO-220	8.50	6.97	6.29
TPS75725KC	296-11004-5-ND	2.5V, 3A LDO Regulator	TO-220	8.50	6.97	6.29
TPS75725KTTT	296-15923-1-ND	2.5V, 3A LDO Regulator	TO-263-5	10.34	8.58	—
TPS75725KTTT	296-15923-2-ND	2.5V, 3A LDO Regulator	TO-263-5	399.75/50		
TPS75733KC	296-11006-5-ND	3.3V, 3A LDO Regulator	TO-220	8.50	6.97	6.29
TPS75801KC	296-11957-5-ND	Adj., 3A LDO Regulator	TO-220-5	6.75	5.54	5.00
TPS75815KC	296-11959-5-ND	1.5V, 3A LDO Regulator	TO-220-5	6.75	5.54	5.00
TPS75815KTTT	296-15926-1-ND	1.5V, 3A LDO Regulator	TO-263-5	8.35	6.93	—
TPS75815KTTT	296-15926-2-ND	1.5V, 3A LDO Regulator	TO-263-5	322.90/50		
TPS75818KC	296-11961-5-ND	1.8V, 3A LDO Regulator	TO-220-5	6.75	5.54	5.00
TPS75825KC	296-11963-5-ND	2.5V, 3A LDO Regulator	TO-220-5	6.75	5.54	5.00
TPS75825KTTT	296-15928-1-ND	2.5V, 3A LDO Regulator	TO-263-5	8.35	6.93	—
TPS75825KTTT	296-15928-2-ND	2.5V, 3A LDO Regulator	TO-263-5	322.90/50		
TPS75833KC	296-11965-5-ND	3.3V, 3A LDO Regulator	TO-220-5	6.75	5.54	5.00
TPS75833KTTT	296-15929-1-ND	3.3V, 3A LDO Regulator	TO-263-5	8.35	6.93	—
TPS75901KC	296-12369-5-ND	Adj., 7.5A LDO Regulator	TO-220-5	8.00	6.56	5.92
TPS75915KC	296-12371-5-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	8.00	6.56	5.92
TPS75918KC	296-12373-5-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-220-5	8.00	6.56	5.92
TPS75925KC	296-12375-5-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	8.00	6.56	5.92
TPS75933KC	296-12377-5-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-220-5	8.00	6.56	5.92
TPS75933KTTT	296-15934-1-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-263-5	9.81	8.14	—
TPS75933KTTT	296-15934-2-ND	3.3V, Fixed Oust 7.5A LDO Regulator	TO-263-5	379.25/50		
TPS76XXXEVM-125	296-11042-ND	Eval. Module for TPS76XXX-125	—	50.00	—	—
TPS76030DBVR	296-1363-1-ND	3V LP 50mA LDO Regulator	SOT-23-5	1.37	1.08	.98
TPS76030DBVR	296-1363-2-ND	3V LP 50mA LDO Regulator	SOT-23-5	1512.00/3,000		
TPS76033DBVR	296-8073-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1.37	1.08	.98
TPS76033DBVR	296-8073-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1512.00/3,000		
TPS76033DBVT	296-27076-1-ND	3.3V, 50mA LDO Regulator* ***NEW!***	SOT-23-5	1.57	1.25	1.12
TPS76033DBVT	296-27076-2-ND	3.3V, 50mA LDO Regulator* ***NEW!***	SOT-23-5	222.50/250		
TPS76050DBVR	296-8075-1-ND	5V, 50mA LDO Regulator	SOT-23-5	1.37	1.08	.98
TPS76050DBVR	296-8075-2-ND	5V, 50mA LDO Regulator	SOT-23-5	1512.00/3,000		
TPS76130DBVR	296-11008-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.41	1.11	1.00
TPS76130DBVT	296-2693-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.62	1.28	1.16
TPS76130DBVT	296-2693-2-ND	3V, 100mA LDO Regulator	SOT-23-5	229.00/250		
TPS76132DBVT	296-2694-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1.62	1.28	1.16
TPS76132DBVT	296-2694-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	229.00/250		
TPS76133DBVR	296-11010-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.41	1.11	1.00
TPS76133DBVR	296-11010-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1554.00/3,000		
TPS76133DBVT	296-2695-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.62	1.28	1.16
TPS76133DBVT	296-2695-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	229.00/250		
TPS76138DBVT	296-2696-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1.62	1.28	1.16
TPS76138DBVT	296-2696-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	229.00/250		
TPS76150DBVR	296-11012-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.41	1.11	1.00
TPS76150DBVR	296-11012-2-ND	5V, 100mA LDO Regulator	SOT-23-5	1554.00/3,000		
TPS76150DBVT	296-2697-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.62	1.28	1.16
TPS76150DBVT	296-2697-2-ND	5V, 100mA LDO Regulator	SOT-23-5	229.00/250		
TPS76201DBVR	296-11013-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1.41	1.11	1.00
TPS76201DBVR	296-11013-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1554.00/3,000		
TPS76301DBVR	296-11014-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.99	.77	.68
TPS76301DBVR	296-11014-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	978.00/3,000		
TPS76301DBVT	296-2698-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76301DBVT	296-2698-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76301QDBVRG4Q1	296-24437-1-ND	Adj., 150mA LDO Regulator* ***NEW!***	SOT-23-5	1.00	.79	.72
TPS76301QDBVRG4Q1	296-24437-2-ND	Adj., 150mA LDO Regulator* ***NEW!***	SOT-23-5	1104.00/3,000		
TPS76301QDBVRQ1	296-18038-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	1.00	.79	.72
TPS76301QDBVRQ1	296-18038-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	1104.00/3,000		
TPS76316DBVR	296-11015-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.99	.77	.68
TPS76316DBVR	296-11015-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	978.00/3,000		
TPS76316DBVT	296-2699-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76316DBVT	296-2699-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76318DBVT	296-2700-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76318DBVT	296-2700-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76325DBVR	296-11017-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.99	.77	.68
TPS76325DBVR	296-11017-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	978.00/3,000		
TPS76325DBVT	296-2701-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76325DBVT	296-2701-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76327DBVT	296-2702-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76327DBVT	296-2702-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76328DBVT	296-2703-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76328DBVT	296-2703-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76330DBVR	296-11020-1-ND	3V, 150mA LDO Regulator	SOT-23-5	.99	.77	.68
TPS76330DBVR	296-11020-2-ND	3V, 150mA LDO Regulator	SOT-23-5	978.00/3,000		
TPS76330DBVT	296-2704-1-ND	3V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76330DBVT	296-2704-2-ND	3V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76333DBVR	296-11021-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.99	.77	.68
TPS76333DBVR	296-11021-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	978.00/3,000		
TPS76333DBVT	296-2705-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76333DBVT	296-2705-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76338DBVT	296-2706-1-ND	3.8V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76338DBVT	296-2706-2-ND	3.8V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76350DBVT	296-2707-1-ND	5V, 150mA LDO Regulator	SOT-23-5	.98	.78	.70
TPS76350DBVT	296-2707-2-ND	5V, 150mA LDO Regulator	SOT-23-5	139.25/250		
TPS76425DBVT	296-2708-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76425DBVT	296-2708-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	161.25/250		
TPS76427DBVR	296-11025-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76427DBVT	296-2709-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76427DBVT	296-2709-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	161.25/250		
TPS76428DBVT	296-2710-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	1.14	.90	.81

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS76428DBVT	296-2710-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	161.25/250		
TPS76430DBVT	296-2711-1-ND	3V, 150mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76430DBVT	296-2711-2-ND	3V, 150mA LDO Regulator	SOT-23-5	161.25/250		
TPS76433DBVR	296-11028-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76433DBVR	296-11028-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76433DBVT	296-2712-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76433DBVT	296-2712-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	161.25/250		
TPS76501D	296-2713-5-ND	Adjustable, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76515D	296-2714-5-ND	1.5V, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76518D	296-2715-5-ND	1.8V, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76525D	296-2716-5-ND	2.5V, 150mA LDO Regulator	8-SOIC	2.02	1.63	1.47
TPS76527D	296-2717-5-ND	2.7V, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76528D	296-2718-5-ND	2.8V, 150mA LDO Regulator	8-SOIC	2.02	1.63	1.47
TPS76530D	296-2719-5-ND	3V, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76533D	296-2720-5-ND	3.3V, 150mA LDO Regulator	8-SOIC	1.86	1.50	1.35
TPS76550D	296-2721-5-ND	5V, 150mA LDO Regulator	8-SOIC	2.48	2.00	1.80
TPS76601D	296-2722-5-ND	Adjustable, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76615D	296-2723-5-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76615DR	296-2723-1-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.52	1.20	1.08
TPS76618D	296-2724-5-ND	1.8V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76625D	296-2725-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76627D	296-2726-5-ND	2.7V, 250mA LDO Regulator	8-SOIC	1.40	1.12	.98
TPS76628D	296-2727-5-ND	2.8V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76630D	296-2728-5-ND	3V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76633D	296-2729-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76650D	296-2730-5-ND	5V, 250mA LDO Regulator	8-SOIC	1.68	1.35	1.18
TPS76701QD	296-2731-5-ND	Adj., 1A LDO Voltage Regulator	8-SOIC	3.78	3.04	2.77
TPS76701QPWP	296-8076-5-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76701QPWPR	296-8076-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3.30	2.70	2.42
TPS76701QPWPR	296-8076-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2926.00/2,000		
TPS76715QD	296-2732-5-ND	1.5V, 1A LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS76715QPWP	296-8077-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76718QD	296-2733-5-ND	1.8V, 1A LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS76718QPWP	296-8078-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76718QPWPREP	296-22511-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	4.50	3.68	3.30
TPS76718QPWPREP	296-22511-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3990.00/2,000		
TPS76725QD	296-2734-5-ND	2.5V, 1A LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS76725QPWP	296-8079-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76727QD	296-2735-5-ND	2.7V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76727QPWP	296-8080-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76728QD	296-2736-5-ND	2.8V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76728QPWP	296-8081-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76730QD	296-2737-5-ND	3V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76730QPWP	296-8082-5-ND	3V, 1A LDO Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76733QD	296-2738-5-ND	3.3V, 1A LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS76733QPWP	296-8083-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76733QPWPRQ1	296-15285-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3.90	3.19	2.86
TPS76733QPWPRQ1	296-15285-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3458.00/2,000		
TPS76750QD	296-2739-5-ND	5V, 1A LDO Regulator	8-SOIC	3.78	3.04	2.77
TPS76750QPWP	296-8084-5-ND	5V, 1A LDO Regulator	20-HTSSOP	3.78	3.04	2.77
TPS76801MPWPREP	296-24016-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	7.16	5.94	5.40
TPS76801QD	296-2743-5-ND	Adj., 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76801QPWP	296-8085-5-ND	Adj., 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76801QPWPRG4Q1	296-24476-1-ND	Adj., 1A LDO Regulator* ***NEW!***	20-HTSSOP	3.15	2.58	2.31
TPS76801QPWPRG4Q1	296-24476-2-ND	Adj., 1A LDO Regulator* ***NEW!***	20-HTSSOP	2793.00/2,000		
TPS76801QPWPRQ1	296-15287-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	3.15	2.58	2.31
TPS76801QPWPRQ1	296-15287-2-ND	Adj., 1A LDO Regulator	20-HTSSOP	2794.00/2,000		
TPS76815QD	296-2744-5-ND	1.5V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76815QPWP	296-8086-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76818QD	296-2745-5-ND	1.8V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76818QPWP	296-8087-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76818QPWPRQ1	296-15288-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3.15	2.58	2.31
TPS76818QPWPRQ1	296-15288-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2793.00/2,000		
TPS76825QD	296-2746-5-ND	2.5V, 1A LDO Regulator*	8-SOIC	3.08	2.48	2.26
TPS76825QPWP	296-8088-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76827QD	296-2747-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.79	2.25	2.03
TPS76827QPWP	296-8089-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	2.79	2.25	2.03
TPS76828QD	296-2748-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.79	2.25	2.03
TPS76828QPWP	296-8090-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	2.79	2.25	2.03
TPS76830QD	296-2749-5-ND	3V, 1A LDO Regulator	8-SOIC	2.79	2.25	2.03
TPS76830QPWP	296-8091-5-ND	3V, 1A LDO Regulator	20-HTSSOP	2.79	2.25	2.03
TPS76833QD	296-2750-5-ND	3.3V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76833QPWP	296-8092-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76833QPWPRQ1	296-15289-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3.15	2.58	2.31
TPS76850QD	296-2751-5-ND	5V, 1A LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS76850QPWP	296-8093-5-ND	5V, 1A LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS76850QPWPRQ1	296-15290-1-ND	5V, 1A LDO Regulator	20-HTSSOP	3.15	2.58	2.31
TPS76850QPWPRQ1	296-15290-2-ND	5V, 1A LDO Regulator	20-HTSSOP	2794.00/2,000		
TPS76901DBVR	296-11029-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76901DBVR	296-11029-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76901DBVT	296-2752-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76901DBVT	296-2752-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76901EVM-127	296-11030-ND	Evaluation Module for TPS76901	—	50.00	—	—
TPS76901QDBVRG4Q1	296-24400-1-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.16	.92	.83
TPS76901QDBVRG4Q1	296-24400-2-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-5	1284.00/3,000		
TPS76901SDBVTEP	296-25576-1-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-5	30.00	27.00	24.75
TPS76901SDBVTEP	296-25576-2-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-5	5437.50/250		
TPS76912DBVR	296-11031-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76912DBVR	296-11031-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76912DBVT	296-2753-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76912DBVT	296-2753-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76915DBVR	296-11032-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76915DBVR	296-11032-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76915DBVT	296-2754-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76915DBVT	296-2754-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76915QDBVRG4Q1	296-24438-1-ND	1.5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.16	.92	.83
TPS76915QDBVRG4Q1	296-24438-2-ND	1.5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1284.00/3,000		
TPS76918DBVR	296-11033-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76918DBVR	296-11033-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76918DBVT	296-2755-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76918DBVT	296-2755-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76918EVM-127	296-11034-ND	Evaluation Module for TPS76918	—	50.00	—	—
TPS76918QDBVRQ1	296-15292-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.16	.92	.83
TPS76925DBVR	296-11035-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76925DBVR	296-11035-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76925DBVT	296-2756-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76925DBVT	296-2756-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	161.25/250		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS76927DBVR	296-11036-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76927DBVR	296-11036-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76927DBVT	296-2757-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76927DBVT	296-2757-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76928DBVR	296-11037-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.99	.79	.71
TPS76928DBVR	296-11037-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76928DBVT	296-2758-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76928DBVT	296-2758-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76930DBVR	296-11038-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1095.00/3,000		
TPS76930DBVT	296-2759-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76930DBVT	296-2759-2-ND	3V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76930QDBVRG4Q1	296-24439-1-ND	3V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.16	.92	.83
TPS76930QDBVRG4Q1	296-24439-2-ND	3V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1284.00/3,000		
TPS76933DBVR	296-11039-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	900.00/3,000		
TPS76933DBVT	296-2760-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.05	.81	.72
TPS76933DBVT	296-2760-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	139.75/250		
TPS76933EVM-127	296-11040-ND	Evaluation Module for TPS76933	—	50.00	—	—
TPS76950DBVT	296-2761-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS76950DBVT	296-2761-2-ND	5V, 100mA LDO Regulator	SOT-23-5	161.25/250		
TPS76950QDBVRG4Q1	296-24440-1-ND	5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.16	.92	.83
TPS76950QDBVRG4Q1	296-24440-2-ND	5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1284.00/3,000		
TPS76950QDBVRQ1	296-15295-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.16	.92	.83
TPS77001DBVR	296-11043-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77001DBVR	296-11043-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1323.00/3,000		
TPS77001DBVT	296-2762-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77001DBVT	296-2762-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77012DBVR	296-11044-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77012DBVR	296-11044-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1323.00/3,000		
TPS77012DBVT	296-2763-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77012DBVT	296-2763-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77015DBVT	296-2764-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77015DBVT	296-2764-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77018DBVR	296-11046-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77018DBVR	296-11046-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1323.00/3,000		
TPS77018DBVT	296-2765-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77018DBVT	296-2765-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77025DBVT	296-2766-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77025DBVT	296-2766-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77027DBVR	296-11048-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77027DBVT	296-2767-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77027DBVT	296-2767-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77028DBVR	296-11049-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77028DBVR	296-11049-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1323.00/3,000		
TPS77028DBVT	296-2768-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77028DBVT	296-2768-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77030DBVT	296-2769-1-ND	3V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77030DBVT	296-2769-2-ND	3V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77033DBVT	296-2770-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77033DBVT	296-2770-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77050DBVR	296-11052-1-ND	5V, 50mA LDO Regulator	SOT-23-5	1.20	.95	.86
TPS77050DBVR	296-11052-2-ND	5V, 50mA LDO Regulator	SOT-23-5	1323.00/3,000		
TPS77050DBVT	296-2771-1-ND	5V, 50mA LDO Regulator	SOT-23-5	1.38	1.09	.98
TPS77050DBVT	296-2771-2-ND	5V, 50mA LDO Regulator	SOT-23-5	194.50/250		
TPS77101DGK	296-8094-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77115DGK	296-8095-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	2.79	2.25	2.03
TPS77118DGK	296-8096-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	2.79	2.25	2.03
TPS77127DGK	296-8097-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77128DGK	296-8098-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	2.79	2.25	2.03
TPS77133DGK	296-8099-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77150DGK	296-8100-5-ND	5V, 150mA LDO Regulator	8-MSOP	2.79	2.25	2.03
TPS77201DGK	296-8101-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77215DGK	296-8102-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77218DGK	296-8103-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77227DGK	296-8104-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77228DGK	296-8105-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.86	1.50	1.35
TPS77233DGK	296-8106-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	2.33	1.88	1.69
TPS77250DGK	296-8107-5-ND	5V, 150mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77301DGK	296-8108-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77315DGK	296-8109-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77316DGK	296-13419-5-ND	250mA LDO Reg. with Reset Output	8-MSOP	2.64	2.13	1.92
TPS77318DGK	296-8110-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77327DGK	296-8111-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77328DGK	296-8112-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77333DGK	296-8113-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77350DGK	296-8114-5-ND	5V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77401DGK	296-8115-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77401MDGKREP	296-22518-1-ND	Adj., 250mA LDO Regulator	8-MSOP	5.37	4.39	3.94
TPS77401MDGKREP	296-22518-2-ND	Adj., 250mA LDO Regulator	8-MSOP	5951.75/2,500		
TPS77415DGK	296-8116-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77418DGK	296-8117-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77427DGK	296-8118-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77428DGK	296-8119-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	2.17	1.75	1.58
TPS77433DGK	296-8120-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77450DGK	296-8121-5-ND	5V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77501D	296-2772-5-ND	Adj., 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77501MPWPREP	296-18163-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	7.26	5.93	5.33
TPS77501PWP	296-8122-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77515D	296-2773-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77515PWP	296-8123-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77516D	296-13420-5-ND	1.6V, 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77516PWP	296-12401-5-ND	1.6V, 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77518D	296-2774-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77518PWP	296-8124-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77525D	296-2775-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77525PWP	296-8125-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77533D	296-2776-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	3.08	2.48	2.26
TPS77533MPWPREP	296-18166-1-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	7.26	5.93	5.33
TPS77533MPWPREP	296-18166-2-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	6437.20/2,000		
TPS77533PWP	296-8126-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	3.08	2.48	2.26
TPS77601D	296-2777-5-ND	Adj., 500mA LDO Regulator	8-SOIC	2.64	2.13	1.92
TPS77601PWP	296-8127-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.64	2.13	1.92
TPS77615D	296-2778-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	2.64	2.13	1.92
TPS77615PWP	296-11053-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	2.64	2.13	1.92
TPS77618D	296-2779-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	2.64	2.13	1.92
TPS77618PWP	296-8128-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.64	2.13	1.92
TPS77625D	296-2780-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.64	2.13	1.92
TPS77625PWP	296-8129-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	2.64	2.13	1.92

** RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS77625QPWPREP	296-22521-1-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	3.33	2.57	2.33
TPS77628D	296-2781-5-ND	2.8V, 500mA LDO Regulator	8-SOIC	2.17	1.75	1.58
TPS77628PWP	296-8130-5-ND	2.8V, 500mA LDO Regulator	20-HTSSOP	2.17	1.75	1.58
TPS77633D	296-2782-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	2.64	2.13	1.92
TPS77633PWP	296-8131-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.64	2.13	1.92
TPS77701D	296-2783-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	3.50	2.82	2.57
TPS77701PWP	296-8132-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	3.50	2.82	2.57
TPS77715D	296-2784-5-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	3.50	2.82	2.57
TPS77715PWP	296-8133-5-ND	1.5V, 750mA LDO Reg. with Reset Out	20-HTSSOP	2.94	2.37	2.16
TPS77718D	296-2785-5-ND	1.8V, 750mA LDO Reg. with Reset Out	8-SOIC	3.50	2.82	2.57
TPS77718PWP	296-8134-5-ND	1.8V, 750mA LDO Reg. with Reset Out	20-HTSSOP	3.50	2.82	2.57
TPS77725D	296-2786-5-ND	2.5V, 750mA LDO Reg. with Reset Out	8-SOIC	3.50	2.82	2.57
TPS77725PWP	296-8135-5-ND	2.5V, 750mA LDO Reg. with Reset Out	20-HTSSOP	3.50	2.82	2.57
TPS77733D	296-2787-5-ND	3.3V, 750mA LDO Reg. with Reset Out	8-SOIC	3.50	2.82	2.57
TPS77733PWP	296-8136-5-ND	3.3V, 750mA LDO Reg. with Reset Out	20-HTSSOP	3.50	2.82	2.57
TPS77801D	296-2788-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	3.22	2.59	2.36
TPS77801PWP	296-8137-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	3.22	2.59	2.36
TPS77815D	296-2789-5-ND	1.5V, 750mA LDO Regulator	8-SOIC	3.22	2.59	2.36
TPS77815PWP	296-8138-5-ND	1.5V, 750mA LDO Regulator	20-HTSSOP	3.22	2.59	2.36
TPS77818D	296-2790-5-ND	1.8V, 750mA LDO Regulator	8-SOIC	2.80	2.25	2.05
TPS77818PWP	296-8139-5-ND	1.8V, 750mA LDO Regulator	20-HTSSOP	3.22	2.59	2.36
TPS77825D	296-2791-5-ND	2.5V, 750mA LDO Regulator	8-SOIC	3.22	2.59	2.36
TPS77825PWP	296-8140-5-ND	2.5V, 750mA LDO Regulator	20-HTSSOP	3.22	2.59	2.36
TPS77833D	296-2792-5-ND	3.3V, 750mA LDO Regulator	8-SOIC	3.22	2.59	2.36
TPS77833PWP	296-8141-5-ND	3.3V, 750mA LDO Regulator	20-HTSSOP	3.22	2.59	2.36
TPS77901DGK	296-8142-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	2.94	2.37	2.16
TPS77918DGK	296-8143-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	2.94	2.37	2.16
TPS77925DGK	296-8144-5-ND	2.5V, 250mA LDO Regulator	8-MSOP	2.64	2.13	1.92
TPS77930DGK	296-8145-5-ND	3V, 250mA LDO Regulator	8-MSOP	2.94	2.37	2.16
TPS78001DDCR	296-23331-1-ND	Adj., 150mA LDO Regulator	5-SOT	1.31	1.04	.94
TPS78001DDCR	296-23331-2-ND	Adj., 150mA LDO Regulator	5-SOT	1449.00/3,000		
TPS78001DDCT	296-27084-1-ND	Adjustable, 150mA LDO Reg.* ***NEW!***	TSOT-23-5	1.51	1.20	1.08
TPS78001DDCT	296-27084-2-ND	Adjustable, 150mA LDO Reg.* ***NEW!***	TSOT-23-5	213.50/250		
TPS78001DRVR	296-23438-1-ND	Adj., 150mA LDO Regulator	6-SON	1.46	1.16	1.04
TPS78001DRVR	296-23438-2-ND	Adj., 150mA LDO Regulator	6-SON	1617.00/3,000		
TPS780XXEVM-301	296-24110-ND	Evaluation Module for TPS780	—	20.40	—	—
TPS78101DDCR	296-23333-1-ND	Adj., 150mA LDO Regulator	TSOT-23-5	1.12	.89	.80
TPS78101DDCR	296-23333-2-ND	Adj., 150mA LDO Regulator	TSOT-23-5	1239.00/3,000		
TPS78101DDCT	296-27085-1-ND	Adj., 150mA LDO Regulator* ***NEW!***	TSOT-23-5	1.29	1.02	.92
TPS78101DDCT	296-27085-2-ND	Adj., 150mA LDO Regulator* ***NEW!***	TSOT-23-5	182.25/250		
TPS78223DDCT	296-24119-1-ND	2.3V, 150mA LDO Regulator	5-SOT	1.07	.85	.77
TPS78223DDCT	296-24119-2-ND	2.3V, 150mA LDO Regulator	5-SOT	151.50/250		
TPS78225DDCR	296-23824-1-ND	2.5V, 150mA LDO Regulator	TSOT-23-5	1.08	.84	.74
TPS78225DDCR	296-23824-2-ND	2.5V, 150mA LDO Regulator	TSOT-23-5	1065.00/3,000		
TPS78225DDCT	296-27086-1-ND	2.5V, 150mA LDO Regulator* ***NEW!***	5-SOT	1.07	.85	.77
TPS78225DDCT	296-27086-2-ND	2.5V, 150mA LDO Regulator* ***NEW!***	5-SOT	151.50/250		
TPS78225DRVR	296-24679-1-ND	2.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1.08	.86	.77
TPS78225DRVR	296-24679-2-ND	2.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1197.00/3,000		
TPS78225QDRVRQ1	296-25735-1-ND	2.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1.24	.99	.89
TPS78225QDRVRQ1	296-25735-2-ND	2.5V, 150mA LDO Regulator* ***NEW!***	6-SON	1374.00/3,000		
TPS78227DDCR	296-23825-1-ND	2.7V, 150mA LDO Regulator	TSOT-23-5	1.08	.84	.74
TPS78227DDCR	296-23825-2-ND	2.7V, 150mA LDO Regulator	TSOT-23-5	1065.00/3,000		
TPS78227DDCT	296-27087-1-ND	2.7V, 150mA LDO Regulator* ***NEW!***	TSOT-23-5	1.07	.85	.77
TPS78227DDCT	296-27087-2-ND	2.7V, 150mA LDO Regulator* ***NEW!***	TSOT-23-5	151.50/250		
TPS78227DRVR	296-24680-1-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	1.08	.86	.77
TPS78227DRVR	296-24680-2-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	1197.00/3,000		
TPS78227QDRVRQ1	296-25736-1-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	1.24	.99	.89
TPS78227QDRVRQ1	296-25736-2-ND	2.7V, 150mA LDO Regulator* ***NEW!***	6-SON	1374.00/3,000		
TPS78228DDCR	296-23826-1-ND	2.8V, 150mA LDO Regulator	TSOT-23-5	1.08	.84	.74
TPS78228DDCR	296-23826-2-ND	2.8V, 150mA LDO Regulator	TSOT-23-5	1065.00/3,000		
TPS78228DRVR	296-24681-1-ND	2.8V, 150mA LDO Regulator* ***NEW!***	6-SON	1.08	.86	.77
TPS78228DRVR	296-24681-2-ND	2.8V, 150mA LDO Regulator* ***NEW!***	6-SON	1197.00/3,000		
TPS78228QDRVRQ1	296-25737-1-ND	2.8V, 150mA LDO Regulator* ***NEW!***	6-SON	1.24	.99	.89
TPS78228QDRVRQ1	296-25737-2-ND	2.8V, 150mA LDO Regulator* ***NEW!***	6-SON	1374.00/3,000		
TPS78230DDCR	296-24372-1-ND	3V, 150mA LDO Regulator* ***NEW!***	5-SOT	1.08	.84	.74
TPS78230DDCR	296-24372-2-ND	3V, 150mA LDO Regulator* ***NEW!***	5-SOT	1065.00/3,000		
TPS78230DRVT	296-24636-1-ND	3V, 150mA LDO Regulator* ***NEW!***	6-SON	1.22	.97	.87
TPS78230DRVT	296-24636-2-ND	3V, 150mA LDO Regulator* ***NEW!***	6-SON	173.00/250		
TPS78230QDRVRQ1	296-25738-1-ND	3V, 150mA LDO Regulator* ***NEW!***	6-SON	1.24	.99	.89
TPS78230QDRVRQ1	296-25738-2-ND	3V, 150mA LDO Regulator* ***NEW!***	6-SON	1374.00/3,000		
TPS78233DDCT	296-24120-1-ND	3.3V, 150mA LDO Regulator	5-SOT	1.07	.85	.77
TPS78233DDCT	296-24120-2-ND	3.3V, 150mA LDO Regulator	5-SOT	151.50/250		
TPS78601DCQR	296-13755-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.05	3.31	2.97
TPS78601DCQR	296-13755-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4490.00/2,500		
TPS78601DRBT	296-25153-1-ND	1.2V to 5.5V, Ultra LN, High PSRR, Fast RF 1.5A LDO Reg.* ***NEW!***	8-SON	4.65	3.80	3.41
TPS78601DRBT	296-25153-2-ND	1.2V to 5.5V, Ultra LN, High PSRR, Fast RF 1.5A LDO Reg.* ***NEW!***	8-SON	717.00/250		
TPS78601KTTT	296-14421-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	5.40	4.41	—
TPS78618DCQR	296-13756-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.05	3.31	2.97
TPS78618DCQR	296-13756-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4490.00/2,500		
TPS78625DCQR	296-13757-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.05	3.31	2.97
TPS78625DCQR	296-13757-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4490.00/2,500		
TPS78630DCQR	296-13759-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.05	3.31	2.97
TPS78633DCQ	296-13760-5-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.62	3.72	3.39
TPS78633DCQR	296-13760-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4.05	3.31	2.97
TPS78633DCQR	296-13760-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4490.00/2,500		
TPS78633EVM-207	296-20625-ND	Evaluation Module for TPS78633	—	50.00	—	—
TPS78633KTTT	296-14426-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	5.40	4.41	—
TPS78633KTTT	296-14426-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	202.50/50		
TPS78825DBVR	296-12379-1-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.44	1.14	1.03
TPS78825DBVR	296-12379-2-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1596.00/3,000		

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS78833DBVR	296-12380-1-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.44	1.14	1.03
TPS78833DBVR	296-12380-2-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1596.00/3,000		
TPS78833EVM	296-13592-ND	Evaluation Module for TPS78833	—	50.00	—	—
TPS78915DBVR	296-8146-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1.44	1.14	1.03
TPS78918DBVR	296-8147-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS78918DBVR	296-8147-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1260.00/3,000		
TPS78918DBVT	296-27092-1-ND	1.8V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.31	1.04	.94
TPS78918DBVT	296-27092-2-ND	1.8V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	185.50/250		
TPS78930DBVR	296-8150-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1.14	.90	.81
TPS78930DBVR	296-8150-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1260.00/3,000		
TPS79015DBVR	296-8151-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1.71	1.35	1.22
TPS79018DBVR	296-8152-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.71	1.35	1.22
TPS79018DBVR	296-8152-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1890.00/3,000		
TPS79025DBVR	296-8153-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1.71	1.35	1.22
TPS79028DBVR	296-8154-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1.71	1.35	1.22
TPS79028DBVR	296-8154-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1890.00/3,000		
TPS79030DBVR	296-8155-1-ND	3V, 50mA LDO Regulator	SOT-23-5	1.71	1.35	1.22
TPS79030DBVR	296-8155-2-ND	3V, 50mA LDO Regulator	SOT-23-5	1890.00/3,000		
TPS79101DBVR	296-11864-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.52	1.20	1.08
TPS79101DBVR	296-11864-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1680.00/3,000		
TPS79101DBVRG4Q1	296-24441-1-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-6	1.78	1.41	1.27
TPS79101DBVRG4Q1	296-24441-2-ND	Adj., 100mA LDO Regulator* ***NEW!***	SOT-23-6	1965.60/3,000		
TPS79118DBVR	296-11865-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.52	1.20	1.08
TPS79118DBVR	296-11865-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1680.00/3,000		
TPS79133DBVR	296-11866-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.52	1.20	1.08
TPS79133DBVR	296-11866-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1680.00/3,000		
TPS79133DBVREP	296-22524-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.89	1.46	1.33
TPS79133DBVRG4Q1	296-24442-1-ND	3.3V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.78	1.41	1.27
TPS79133DBVRG4Q1	296-24442-2-ND	3.3V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1965.60/3,000		
TPS79147DBVT	296-13707-1-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Reg.	SOT-23-5	1.75	1.38	1.25
TPS79201DBVR	296-11868-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.52	1.20	1.08
TPS79201DBVR	296-11868-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1680.00/3,000		
TPS79225DBVR	296-11869-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1.52	1.20	1.08
TPS79225DBVR	296-11869-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1680.00/3,000		
TPS79225DBVT	296-27098-1-ND	2.5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	1.75	1.38	1.25
TPS79225DBVT	296-27098-2-ND	2.5V, 100mA LDO Regulator* ***NEW!***	SOT-23-5	247.25/250		
TPS79230DBVR	296-11871-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.52	1.20	1.08
TPS79230DBVR	296-11871-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1680.00/3,000		
TPS79230DBVT	296-19004-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.75	1.38	1.25
TPS79230DBVT	296-19004-2-ND	3V, 100mA LDO Regulator	SOT-23-5	247.25/250		
TPS79301DBVR	296-12154-1-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-6	.96	.75	.66
TPS79301DBVR	296-12154-2-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-6	954.00/3,000		
TPS79301DBVRQ1	296-15305-1-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-6	.97	.77	.70
TPS79301DBVRQ1	296-15305-2-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-6	1074.00/3,000		
TPS79301EVM	296-13593-ND	Evaluation Module for TPS79301	—	50.00	—	—
TPS79301MDBVREP	296-22525-1-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-5	2.07	1.60	1.45
TPS79301MDBVREP	296-22525-2-ND	Adj., 200mA High PSRR RF LDO Reg.	SOT-23-5	2391.00/3,000		
TPS79318DBVR	296-12155-1-ND	1.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.96	.75	.66
TPS79318DBVR	296-12155-2-ND	1.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	954.00/3,000		
TPS79318DBVRG4Q1	296-24779-1-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Reg.* ***NEW!***	SOT-23-5	.97	.77	.70
TPS79318DBVRG4Q1	296-24779-2-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Reg.* ***NEW!***	SOT-23-5	1075.20/3,000		
TPS79318DBVRQ1	296-15306-1-ND	1.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.97	.77	.70
TPS79318DBVRQ1	296-15306-2-ND	1.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	1075.20/3,000		
TPS79318YEQEVM	296-19005-ND	Evaluation Module for TPS79318YEQ	—	10.20	—	—
TPS79318YZQR	296-18064-1-ND	1.8V, 200mA High PSRR RF LDO Reg.	5-DSBGA	1.01	.80	.72
TPS79318YZQR	296-18064-2-ND	1.8V, 200mA High PSRR RF LDO Reg.	5-DSBGA	1117.20/3,000		
TPS79325DBVR	296-12156-1-ND	2.5V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.96	.75	.66
TPS79325DBVR	296-12156-2-ND	2.5V, 200mA High PSRR RF LDO Reg.	SOT-23-5	954.00/3,000		
TPS79325DBVRQ1	296-15307-1-ND	2.5V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.97	.77	.70
TPS79325DBVRQ1	296-15307-2-ND	2.5V, 200mA High PSRR RF LDO Reg.	SOT-23-5	1075.20/3,000		
TPS79325YEQEVM	296-19006-ND	Evaluation Module for TPS79325YEQ	—	10.20	—	—
TPS79328DBVR	296-12158-1-ND	2.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.96	.75	.66
TPS79328DBVR	296-12158-2-ND	2.8V, 200mA High PSRR RF LDO Reg.	SOT-23-5	954.00/3,000		
TPS79328EVM	296-13594-ND	Evaluation Module for TPS79328	—	50.00	—	—
TPS79328YEQEVM	296-19008-ND	Evaluation Module for TPS79328YEQ	—	10.20	—	—
TPS79328YEQT	296-19009-ND	2.8V, 200mA High PSRR RF LDO Reg.	5-DSBGA	3.22	2.59	2.36
TPS79330DBVR	296-12159-1-ND	3V, 200mA High PSRR RF LDO Reg.	SOT-23-5	.96	.75	.66
TPS79330DBVR	296-12159-2-ND	3V, 200mA High PSRR RF LDO Reg.	SOT-23-5	954.00/3,000		
TPS79330YEQEVM	296-19010-ND	Evaluation Module for TPS79330YEQ	—	10.20	—	—
TPS79330YZQR	296-19894-1-ND	3V, 200mA High PSRR, RF LDO Reg.	5-DSBGA	1.01	.80	.72
TPS79330YZQR	296-19894-2-ND	3V, 200mA High PSRR, RF LDO Reg.	5-DSBGA	1116.00/3,000		
TPS79333DBVR	296-12961-1-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	.96	.75	.66
TPS79333DBVR	296-12961-2-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	954.00/3,000		
TPS79333DBVRG4Q1	296-24780-1-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Reg.* ***NEW!***	SOT-23-5	.97	.77	.70
TPS79333DBVRG4Q1	296-24780-2-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Reg.* ***NEW!***	SOT-23-5	1075.20/3,000		
TPS79333DBVRQ1	296-15308-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5	.97	.77	.70
TPS79333DBVRQ1	296-15308-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5	1075.20/3,000		
TPS79401DCQR	296-14427-1-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	SOT-223-6	2.28	1.76	1.60
TPS79401DCQR	296-14427-2-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	SOT-223-6	2195.00/2,500		
TPS79401DGNR	296-13526-1-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2.28	1.76	1.60
TPS79401DGNR	296-13526-2-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2195.00/2,500		
TPS79418DCQR	296-14429-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	SOT-223-6	2.28	1.76	1.60
TPS79418DGNR	296-14213-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2.28	1.76	1.60
TPS79418DGNR	296-14213-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2195.00/2,500		
TPS79418DGNT	296-14430-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2.63	2.03	1.84
TPS79425DCQ	296-27101-5-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.* ***NEW!***	SOT-223-6	2.48	2.00	1.80

* *RoHS Compliant*

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS79425DGNR	296-13527-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2.28	1.76	1.60
TPS79425DGNR	296-13527-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2195.00/2,500		
TPS79425DGNT	296-14432-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	2.63	2.03	1.84
TPS79425DGNT	296-14432-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	8-MSOP	375.00/250		
TPS79428DCQR	296-14433-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Reg.	SOT-223-6	2.28	1.76	1.60
TPS79430DCQR	296-14435-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2.28	1.76	1.60
TPS79430DGNR	296-13529-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2.28	1.76	1.60
TPS79433DCQR	296-14437-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	SOT-223-6	2.28	1.76	1.60
TPS79433DCQR	296-14437-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	SOT-223-6	2193.75/2,500		
TPS79433DGNR	296-13530-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	8-MSOP	2.28	1.76	1.60
TPS79433DGNR	296-13530-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	8-MSOP	2195.00/2,500		
TPS79433DGNT	296-14438-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	8-MSOP	2.63	2.03	1.84
TPS79433DGNT	296-14438-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF, 250mA, LDO Linear Reg.	8-MSOP	375.00/250		
TPS79501DCQR	296-13806-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.	SOT-223-5	3.00	2.45	2.20
TPS79501DCQR	296-13806-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.	SOT-223-5	3325.00/2,500		
TPS79501DRBR	296-20792-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.	8-SON	3.30	2.70	2.42
TPS79501DRBR	296-20792-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.	8-SON	4389.00/3,000		
TPS79501DRBT	296-27103-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.* ***NEW!***	8-SON	3.75	3.07	2.75
TPS79501DRBT	296-27103-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Reg.* ***NEW!***	8-SON	578.25/250		
TPS79518DCQR	296-13808-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3.00	2.45	2.20
TPS79518DCQR	296-13808-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3325.00/2,500		
TPS79525DCQ	296-14753-5-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3.36	2.70	2.46
TPS79530DCQR	296-13809-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3.00	2.45	2.20
TPS79530DCQR	296-13809-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3325.00/2,500		
TPS79533DCQR	296-13810-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3.00	2.45	2.20
TPS79533DCQR	296-13810-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3325.00/2,500		
TPS79601DCQR	296-13761-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79601DCQR	296-13761-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3657.50/2,500		
TPS79601DRBR	296-23107-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	3.60	2.94	2.64
TPS79601KTTT	296-14439-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	4.50	3.68	—
TPS79601KTTT	296-14439-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	168.75/50		
TPS79618DCQR	296-13762-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79618DCQR	296-13762-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3657.50/2,500		
TPS79625DCQR	296-13763-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79625DCQR	296-13763-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3657.50/2,500		
TPS79625KTTT	296-14441-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	4.50	3.68	—
TPS79625KTTT	296-14441-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	168.75/50		
TPS79628KTT	296-14442-5-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	3.30	2.66	2.42
TPS79628KTTT	296-16737-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	4.50	3.68	—
TPS79630DCQR	296-13765-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79630KTTT	296-14443-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	4.50	3.68	—
TPS79630KTTT	296-14443-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	168.75/50		
TPS79633DCQ	296-27109-5-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator* ***NEW!***	SOT-223-6	3.78	3.04	2.77
TPS79633DCQR	296-13766-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79633DCQR	296-13766-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3657.50/2,500		
TPS79633KTTT	296-14444-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	4.50	3.68	—
TPS79650DCQR	296-19746-1-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3.30	2.70	2.42
TPS79650DCQR	296-19746-2-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3657.50/2,500		
TPS79650DRBR	296-21352-1-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	3.30	2.70	2.42
TPS79650DRBR	296-21352-2-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	4389.00/3,000		
TPS79718DCKR	296-11988-1-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1.29	1.02	.92
TPS79718DCKR	296-11988-2-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1428.00/3,000		
TPS79718QDCKRQ1	296-23648-1-ND	1.8V, 10mA LDO Linear Voltage Reg.	SC70-5	1.51	1.20	1.08
TPS79718QDCKRQ1	296-23648-2-ND	1.8V, 10mA LDO Linear Voltage Reg.	SC70-5	1671.60/3,000		
TPS79730DCKR	296-11989-1-ND	3V, 10mA Micropower LDO Volt. Reg.	SC70-5	1.29	1.02	.92
TPS79730DCKR	296-11989-2-ND	3V, 10mA Micropower LDO Volt. Reg.	SC70-5	1428.00/3,000		
TPS79730MDCKREP	296-22527-1-ND	3V, 10mA LDO Linear Voltage Reg.	SC70-5	3.05	2.35	2.14
TPS79733DCKR	296-11990-1-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1.29	1.02	.92
TPS79733DCKR	296-11990-2-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1428.00/3,000		
TPS79733EVM	296-13595-ND	Evaluation Module for TPS79733	—	50.00	—	—
TPS79801QDGNRQ1	296-24322-1-ND	Adj., 50mA LDO Linear Reg.* ***NEW!***	8-MSOP	5.10	4.17	3.74
TPS79801QDGNRQ1	296-24322-2-ND	Adj., 50mA LDO Linear Reg.* ***NEW!***	8-MSOP	5652.50/2,500		
TPS79850QDGNRQ1	296-24323-1-ND	Adj., 50mA LDO Linear Reg.* ***NEW!***	8-MSOP	5.10	4.17	3.74
TPS79850QDGNRQ1	296-24323-2-ND	Adj., 50mA LDO Linear Reg.* ***NEW!***	8-MSOP	5652.50/2,500		
TPS79901DDCR	296-17776-1-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79901DDCR	296-17776-2-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79901DRVR	296-27114-1-ND	Adj., 200mA LDO Linear Reg.* ***NEW!***	6-SON	1.41	1.12	1.01
TPS79901DRVR	296-27114-2-ND	Adj., 200mA LDO Linear Reg.* ***NEW!***	6-SON	1557.00/3,000		
TPS79901DRVT	296-19299-1-ND	Adj., 200mA LDO Linear Regulator	6-SON	1.57	1.24	1.12
TPS79901DRVT	296-19299-2-ND	Adj., 200mA LDO Linear Regulator	6-SON	222.00/250		
TPS79901YZUT	296-18343-1-ND	Adj., 200mA LDO Linear Regulator	5-DSBGA	1.43	1.13	1.02
TPS79912DDCR	296-21939-1-ND	1.2V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79912DDCR	296-21939-2-ND	1.2V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79912DDCT	296-27115-1-ND	1.2V, 200mA LDO Linear Regulator* ***NEW!***	TSOT-23-5	1.25	.99	.89
TPS79912DDCT	296-27115-2-ND	1.2V, 200mA LDO Linear Regulator* ***NEW!***	TSOT-23-5	176.25/250		
TPS79912DRVT	296-22870-1-ND	1.2V, 200mA LDO Linear Regulator	6-SON	1.57	1.24	1.12
TPS79912DRVT	296-22870-2-ND	1.2V, 200mA LDO Linear Regulator	6-SON	222.00/250		
TPS79912QDRVRQ1	296-25739-1-ND	1.2V, 200mA LDO Linear Regulator* ***NEW!***	6-SON	1.27	1.00	.90
TPS79912QDRVRQ1	296-25739-2-ND	1.2V, 200mA LDO Linear Regulator* ***NEW!***	6-SON	1398.00/3,000		
TPS79913DDCR	296-21287-1-ND	1.3V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79913DDCR	296-21287-2-ND	1.3V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79915DDCR	296-17777-1-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79915DDCR	296-17777-2-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79915DDCT	296-27116-1-ND	1.5V, 200mA LDO Linear Regulator* ***NEW!***	TSOT-23-5	1.25	.99	.89
TPS79915DDCT	296-27116-2-ND	1.5V, 200mA LDO Linear Regulator* ***NEW!***	TSOT-23-5	176.25/250		
TPS79915QDDCRQ1	296-25740-1-ND	1.5V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1.27	1.00	.90
TPS79915QDDCRQ1	296-25740-2-ND	1.5V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1398.00/3,000		
TPS79915YZUR	296-20715-1-ND	1.5V, 200mA LDO Linear Regulator	5-DSBGA	1.27	1.00	.90
TPS79915YZUR	296-20715-2-ND	1.5V, 200mA LDO Linear Regulator	5-DSBGA	1398.60/3,000		
TPS79918DDCR	296-17778-1-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79918DDCR	296-17778-2-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79918DRVT	296-19367-1-ND	1.8V, 200mA, Ultra Low Noise, High PSRR LDO Linear Regulator	6-SON	1.57	1.24	1.12
TPS79918DRVT	296-19367-2-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	6-SON	222.00/250		
TPS79918QDDCRQ1	296-24781-1-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Reg.* ***NEW!***	SOT-5	1.27	1.00	.90
TPS79918QDDCRQ1	296-24781-2-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Reg.* ***NEW!***	SOT-5	1398.60/3,000		
TPS79918YZUR	296-19482-1-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1.27	1.00	.90
TPS79918YZUR	296-19482-2-ND	1.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1398.60/3,000		
TPS79920YZUT	296-21564-1-ND	2V, 200mA LDO Linear Regulator	5-DSBGA	1.43	1.13	1.02
TPS79925QDDCRQ1	296-25741-1-ND	2.5V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1.27	1.00	.90
TPS79925QDDCRQ1	296-25741-2-ND	2.5V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1398.00/3,000		
TPS79925YZUT	296-18345-1-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	1.43	1.13	1.02
TPS79925YZUT	296-18345-2-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	201.50/250		
TPS79927DDCR	296-20730-1-ND	2.7V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79927DDCR	296-20730-2-ND	2.7V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79927QDDCRQ1	296-25742-1-ND	2.7V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1.27	1.00	.90
TPS79927QDDCRQ1	296-25742-2-ND	2.7V, 200mA LDO Linear Regulator* ***NEW!***	SOT-5	1398.00/3,000		
TPS79927QDRVRQ1	296-25743-1-ND	2.7V, 200mA LDO Linear Regulator* ***NEW!***	6-SON	1.27	1.00	.90
TPS79927QDRVRQ1	296-25743-2-ND	2.7V, 200mA LDO Linear Regulator* ***NEW!***	6-SON	1398.00/3,000		
TPS79928DDCR	296-17781-1-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79928DDCR	296-17781-2-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79928YZUR	296-19484-1-ND	2.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1.27	1.00	.90
TPS79928YZUR	296-19484-2-ND	2.8V, 200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1398.00/3,000		
TPS79930DDCT	296-17782-1-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	1.25	.99	.89
TPS79930DDCT	296-17782-2-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	176.25/250		
TPS79932YZUR	296-19563-1-ND	200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1.27	1.00	.90
TPS79932YZUR	296-19563-2-ND	200mA, Ultra Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	1398.00/3,000		
TPS79933DDCR	296-17783-1-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	1.08	.86	.77
TPS79933DDCR	296-17783-2-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	1197.00/3,000		
TPS79933DRVR	296-19748-1-ND	3.3V, 200mA LDO Linear Regulator	6-SON	1.41	1.12	1.01
TPS79933DRVR	296-19748-2-ND	3.3V, 200mA LDO Linear Regulator	6-SON	1558.20/3,000		
TPS79933QDDCRQ1	296-24852-1-ND	3.3V, 200mA LDO Linear Regulator* ***NEW!***	5-SOT	1.27	1.00	.90
TPS79933QDDCRQ1	296-24852-2-ND	3.3V, 200mA LDO Linear Regulator* ***NEW!***	5-SOT	1398.00/3,000		
TPS79933YZUT	296-18740-1-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	1.43	1.13	1.02
TPS79933YZUT	296-18740-2-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	201.50/250		
TPS79942DDCR	296-21903-1-ND	4.2V, 200mA LDO Regulator	TSOT-23-5	1.08	.86	.77
TPS79942DDCR	296-21903-2-ND	4.2V, 200mA LDO Regulator	TSOT-23-5	1197.00/3,000		
TPS79945YZUR	296-21904-1-ND	4.5V, 200mA LDO Regulator	5-DSBGA	1.27	1.00	.90
TPS715345DCKR	296-18732-1-ND	3.45V, 50mA LDO Regulator	SC70-5	1.29	1.02	.92
TPS715345DCKR	296-18732-2-ND	3.45V, 50mA LDO Regulator	SC70-5	1428.00/3,000		
TPS717285DCKR	296-19649-1-ND	2.85V, 150mA LDO Regulator	SC70-5	1.37	1.08	.98
TPS717285DCKR	296-19649-2-ND	2.85V, 150mA LDO Regulator	SC70-5	1512.00/3,000		
TPS720105DRVT	296-24963-1-ND	1.05V, 350mA LDO Regulator* ***NEW!***	6-SON	2.00	1.54	1.40
TPS720105DRVT	296-24963-2-ND	1.05V, 350mA LDO Regulator* ***NEW!***	6-SON	285.00/250		
TPS720105YZUT	296-24627-1-ND	1.05V, 350mA LDO Reg.* ***NEW!***	5-DSBGA	1.82	1.41	1.28

RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS720105YZUT	296-24627-2-ND	1.05V, 350mA LDO Reg.* ***NEW!***	5-DSBGA	260.00/250		
TPS726126DCQ	296-18257-ND	1.26V, 1A, LDO Regulator	SOT-223-6	3.78	—	—
TPS731125DBVR	296-21276-1-ND	1.25V, 150mA LDO Regulator	SOT-23-5	1.63	1.29	1.17
TPS736125DRBT	296-18252-1-ND	1.25V, 400mA LDO Regulator	8-SON	3.00	2.45	2.20
TPS736125DRBT	296-18252-2-ND	1.25V, 400mA LDO Regulator	8-SON	462.50/250		
TPS793285DBVR	296-12157-1-ND	2.85V, 200mA, High PSRR, RF LDO Regulator	SOT-23-5	.96	.75	.66
TPS793285DBVR	296-12157-2-ND	2.85V, 200mA, High PSRR, RF LDO Regulator	SOT-23-5	952.65/3,000		
TPS793285DBVT	296-27100-1-ND	2.85V, 200mA, High PSRR, RF LDO Regulator* ***NEW!***	SOT-23-5	.95	.76	.68
TPS793285DBVT	296-27100-2-ND	2.85V, 200mA, High PSRR, RF LDO Regulator* ***NEW!***	SOT-23-5	135.00/250		
TPS793285YEQEVM	296-19007-ND	Evaluation Module for TPS793285YEQ	—	10.20	—	—
TPS793475DBVR	296-12160-1-ND	4.75V, 200mA, High PSRR, RF LDO Regulator	SOT-23-5	.96	.75	.66
TPS793475DBVR	296-12160-2-ND	4.75V, 200mA, High PSRR, RF LDO Regulator	SOT-23-5	954.00/3,000		
TPS797285DCKR	296-25465-1-ND	2.85V, 50mA LDO Regulator* ***NEW!***	SC70-5	1.29	1.02	.92
TPS797285DCKR	296-25465-2-ND	2.85V, 50mA LDO Regulator* ***NEW!***	SC70-5	1428.00/3,000		
TPS799285DRVR	296-19747-1-ND	2.85V, 200mA LDO Regulator	6-SON	1.41	1.12	1.01
TPS799285DRVR	296-19747-2-ND	2.85V, 200mA LDO Regulator	6-SON	1557.00/3,000		
TPS728120150DRVT	296-25585-1-ND	1.2V/1.5V, 200mA LDO Reg.* ***NEW!***	6-SON	1.71	1.35	1.22
TPS728120150DRVT	296-25585-2-ND	1.2V/1.5V, 200mA LDO Reg.* ***NEW!***	6-SON	241.25/250		
TPS780230300DRVT	296-24206-1-ND	150mA, Ultralow Power, LDO Regulator* ***NEW!***	6-SON	1.66	1.32	1.18
TPS780230300DRVT	296-24206-2-ND	150mA, Ultralow Power, LDO Regulator* ***NEW!***	6-SON	235.00/250		
TPS780300250DRVR	296-24057-1-ND	2.5V or 3V Dual Level Output, 150mA LDO Regulator	6-SON	1.46	1.16	1.04
TPS780300250DRVR	296-24057-2-ND	2.5V or 3V Dual Level Output, 150mA LDO Regulator	6-SON	1617.00/3,000		
TPS780330220DDCR	296-23332-1-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator	TSOT-23	1.31	1.04	.94
TPS780330220DDCR	296-23332-2-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator	TSOT-23	1449.00/3,000		
TPS780330220DRVR	296-23439-1-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator	6-SON	1.46	1.16	1.04
TPS780330220DRVR	296-23439-2-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator	6-SON	1617.00/3,000		
UA78L15ACDR	296-27137-1-ND	15V, 100mA, Pos. Volt. Reg.* ***NEW!***	8-SOIC	.58	.38	.32
UA78L15ACDR	296-27137-2-ND	15V, 100mA, Pos. Volt. Reg.* ***NEW!***	8-SOIC	330.00/2,500		
UC282T-1	296-15146-5-ND	1.5V, Fast LDO Regulator	TO-220-5	9.38	7.69	6.94
UC282T-2	296-15147-5-ND	2.1V, Fast LDO Regulator	TO-220-5	9.38	7.69	6.94
UC282T-3	296-15148-5-ND	2.5V, Fast LDO Regulator	TO-220-5	9.38	7.69	6.94
UC282T-ADJ	296-15149-5-ND	Adj., Fast LDO Regulator	TO-220-5	9.38	7.69	6.94
UC282TD-3	296-2795-5-ND	2.5V, Fast LDO Regulator	TO-263-5	6.06	4.97	4.49
UC282TDKTTT-3	296-16013-5-ND	2.5V, Fast LDO Regulator	TO-263-5	7.75	6.36	5.74
UC282TDKTTT-ADJ	296-16014-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	8.22	6.82	—
UC282TDTR-ADJ	296-18067-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	8.22	6.82	6.20
UC282TDTR-3	296-19031-1-ND	2.5V, Fast LDO Regulator	TO-263-5	8.22	6.82	6.20
UC285T-1	296-15153-5-ND	1.5V, Fast LDO Regulator	TO-220-5	10.88	8.92	8.05
UC285T-2	296-15154-5-ND	2.1V, Fast LDO Regulator	TO-220-5	9.13	7.49	6.76
UC285T-3	296-15155-5-ND	2.5V, Fast LDO Regulator	TO-220-5	10.88	8.92	8.05
UC285T-ADJ	296-15156-5-ND	1.2V/Adj., Fast LDO Regulator	TO-220-5	10.88	8.92	8.05
UC285TDKTTT-1	296-16015-1-ND	1.5V, Fast LDO Regulator	TO-263-5	9.67	8.03	—
UC285TDKTTT-1	296-16015-2-ND	1.5V, Fast LDO Regulator	TO-263-5	374.15/50		
UC285TDKTTT-ADJ	296-16018-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	9.67	8.03	—
UC285TDKTTT-ADJ	296-16018-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	374.15/50		
UC382T-1	296-2801-5-ND	1.5V, Fast Transient Response LDO Regulator	TO-220-5	8.13	6.67	6.02
UC382T-2	296-2802-5-ND	2.1V, Fast Transient Response LDO Regulator	TO-220-5	8.13	6.67	6.02
UC382T-3	296-2803-5-ND	2.5V, Fast Transient Response LDO Regulator	TO-220-5	8.13	6.67	6.02
UC382T-ADJ	296-2804-5-ND	Adjustable Fast Transient Response LDO Regulator	TO-220-5	8.13	6.67	6.02
UC385EVM-207	296-20626-ND	Evaluation Module for UC385	—	50.00	—	—
UC385T-1	296-2809-5-ND	1.5V, 5A LDO Regulator	TO-220-5	9.50	7.79	7.03
UC385T-2	296-2810-5-ND	2.1V, 5A LDO Regulator	TO-220-5	9.50	7.79	7.03
UC385T-3	296-2811-5-ND	2.5V, 5A LDO Regulator	TO-220-5	9.50	7.79	7.03
UC385T-ADJ	296-2812-5-ND	1.2V/Adj., 5A LDO Regulator	TO-220-5	9.50	7.79	7.03
UC385TD-2	296-2814-5-ND	2.1V, 5A LDO Regulator	TO-263-5	6.16	5.06	4.57
UC2573D	296-2793-5-ND	Buck Pulse PWM Voltage Regulator	8-SOIC	3.92	3.15	2.87
UC2578DP	296-19029-5-ND	Buck PWM Step-Down Voltage Reg.	16-SOIC	10.13	8.31	7.50
UC2832TDWEP	296-18185-5-ND	2V Precision LDO Linear Controller	16-SOIC	10.88	8.92	8.05
UC2834DW	296-2797-5-ND	High-Efficiency Linear Regulator	16-SOIC	18.15	15.27	14.03
UC2835D	296-2798-5-ND	High-Efficiency Regulator Controller	8-SOIC	10.75	8.82	7.96
UC2836D	296-2799-5-ND	High-Efficiency Regulator Controller	8-SOIC	11.88	9.99	9.18
UC3832N	296-11273-5-ND	Adjustable, 100mA LDO Regulator	14-Dip	7.75	6.36	5.74
UC3833N	296-11274-5-ND	Adjustable, 100mA LDO Regulator	8-Dip	6.72	5.40	4.92
UC3834DW	296-2808-5-ND	High-Efficiency Linear Regulator	16-SOIC	12.43	10.46	9.61
UCC281DP-5	296-2817-5-ND	5V, 1A LDO Regulator	8-SOIC	6.50	5.33	4.81
UCC281DP-ADJ	296-2818-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	6.50	5.33	4.81
UCC283T-3	296-11413-5-ND	3.3V, 3A LDO Regulator	TO-220-3	9.38	7.69	6.94
UCC283T-5	296-11414-5-ND	5V, 3A LDO Regulator	TO-220-3	9.38	7.69	6.94
UCC283T-ADJ	296-15163-5-ND	Adjustable, 3A LDO Regulator	TO-220	9.38	7.69	6.94
UCC283TDKTTT-5	296-19039-1-ND	5V, 3A LDO Regulator	3-D2PAK	8.22	6.82	—
UCC283TDKTTT-5	296-19039-2-ND	5V, 3A LDO Regulator	3-D2PAK	317.75/50		
UCC284DP-12	296-11415-5-ND	12V, 500mA Negative LDO Regulator	8-SOIC	7.00	5.74	5.18
UCC284DP-5	296-11416-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	8.00	6.56	5.92
UCC284DP-ADJ	296-11417-5-ND	Adj., 500mA Negative LDO Regulator	8-SOIC	8.00	6.56	5.92
UCC381DP-3	296-2819-5-ND	3.3V, 1A LDO Regulator	8-SOIC	6.44	5.18	4.72
UCC381DP-5	296-2820-5-ND	5V, 1A LDO Regulator	8-SOIC	6.44	5.18	4.72
UCC381DP-ADJ	296-2821-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	6.44	5.18	4.72
UCC383T-3	296-8156-5-ND	3.3V, 3A LDO Linear Regulator	TO-220-3	8.13	6.67	6.02
UCC383T-5	296-8157-5-ND	5V, 3A LDO Linear Regulator	TO-220-3	8.13	6.67	6.02
UCC383T-ADJ	296-8158-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220	8.13	6.67	6.02
UCC383TD-ADJ	296-8161-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263-5	5.90	4.75	4.32
UCC383TDKTTT-3	296-16028-1-ND	3.3V, 3A LDO Linear Regulator	3-D2PAK	7.16	5.94	—
UCC383TDKTTT-3	296-16028-2-ND	3.3V, 3A LDO Linear Regulator	3-D2PAK	276.75/50		
UCC383TDKTTT-5	296-16029-1-ND	5V, 3A LDO Linear Regulator	3-D2PAK	7.16	5.94	—
UCC383TDKTTT-5	296-16029-2-ND	5V, 3A LDO Linear Regulator	3-D2PAK	276.75/50		
UCC384DP-12	296-8162-5-ND	–12V, 0.5A LDO Linear Regulator	8-SOIC	6.58	5.29	4.82
UCC384DP-5	296-8163-5-ND	–5V, 0.5A LDO Linear Regulator	8-SOIC	6.58	5.29	4.82
UCC384DP-ADJ	296-8164-5-ND	Neg. Adj. 0.5A LDO Linear Regulator	8-SOIC	6.58	5.29	4.82
UC3833DWTR	296-13767-1-ND	Precision LDO Linear Controller	16-SOIC	7.20	5.88	5.28

Voltage Regulators

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LFC789D25CPWR	296-17215-1-ND	Dual Linear FET Controller	8-TSSOP	1.10	.87	.79
LM237KCSE3	296-21574-5-ND	Adj., 1.5A 3-Terminal Regulator	TO-220-3	.88	.69	.60
LM317DCY	296-23224-5-ND	3-Terminal Adjustable Regulator	SOT-223	.96	.75	.65
LM317DCYR	296-12602-1-ND	3-Terminal Adjustable Regulator	SOT-223	.88	.68	.60
LM317DCYR	296-12602-2-ND	3-Terminal Adjustable Regulator	SOT-223	725.00/2,500		
LM317KCS	296-13869-5-ND	3-Terminal Adjustable Regulator	TO-220	.80	.62	.54
LM317KCSE3	296-21576-5-ND	3-Terminal Adjustable Regulator	TO-220	.80	.62	.54
LM317KTTR	296-21390-1-ND	3-Terminal Adjustable Regulator	D2PAK-3	1.06	.82	.72
LM317KTTR	296-21390-2-ND	3-Terminal Adjustable Regulator	D2PAK-3	240.00/500		
LM317LCDR	296-17220-1-ND	3-Terminal Adjustable Regulator	8-SOIC	.58	.38	.32
LM317LCDR	296-17220-2-ND	3-Terminal Adjustable Regulator	8-SOIC	330.00/2,500		
LM317LCPK	296-26093-1-ND	100mA Adjustable Pos. Reg.* ***NEW!***	SOT-89-3	.77	.60	.53
LM317LCPK	296-26093-2-ND	100mA Adjustable Pos. Reg.* ***NEW!***	SOT-89-3	282.00/1,000		
LM317LCPWR	296-17222-1-ND	3-Terminal Adjustable Regulator	8-TSSOP	.58	.38	.32
LM317LCPWR	296-17222-2-ND	3-Terminal Adjustable Regulator	8-TSSOP	264.00/2,000		
LM317LIDR	296-20678-1-ND	3-Terminal Adjustable Regulator	8-SOIC	.64	.42	.35
LM317LIDR	296-20678-2-ND	3-Terminal Adjustable Regulator	8-SOIC	362.50/2,500		
LM317LILPR	296-20679-1-ND	3-Terminal Adjustable Regulator	TO-92	.64	.42	.35
LM317LILPR	296-20679-2-ND	3-Terminal Adjustable Regulator	TO-92	290.40/2,000		
LM317LIPK	296-21742-1-ND	3-Terminal Adjustable Regulator	SOT-89	.81	.63	.56
LM317LIPK	296-21742-2-ND	3-Terminal Adjustable Regulator	SOT-89	294.00/1,000		
LM317LIPWR	296-20680-1-ND	3-Terminal Adjustable Regulator	8-TSSOP	.64	.42	.35
LM317LIPWR	296-20680-2-ND	3-Terminal Adjustable Regulator	8-TSSOP	290.40/2,000		
LM317MDCY	296-26095-5-ND	3-Terminal Adjustable Reg.* ***NEW!***	SOT-223-4	.92	.74	.65
LM317MQDCYRG4	296-23127-1-ND	3-Terminal Adjustable Regulator	SOT-223-4	1.06	.83	.73
LM317MQDCYRG4	296-23127-2-ND	3-Terminal Adjustable Regulator	SOT-223-4	877.50/2,500		
LM337KC	296-9550-5-ND	Adj., 1.5A Negative Voltage Regulator	TO-220-3	.93	.75	.66
LM337KCSE3	296-21577-5-ND	Adj., 1.5A Negative Voltage Regulator	TO-220-3	.88	.69	.60
LM337KTPR	296-17847-1-ND	Adj., 1.5A Negative Voltage Regulator	2-PFM	.87	.68	.60
LM337KTTR	296-20746-1-ND	Adj., 1.5A Negative Voltage Regulator	D2PAK-5	1.00	.80	.72
LM337KTTR	296-20746-2-ND	Adj., 1.5A Negative Voltage Regulator	D2PAK-5	396.00/1,000		
LM337KVURG3	296-21578-1-ND	Adj., 1.5A Negative Voltage Regulator	DPAK	1.00	.80	.72
LM337KVURG3	296-21578-2-ND	Adj., 1.5A Negative Voltage Regulator	DPAK	925.00/2,500		
LM2575IN	296-20850-5-ND	1A Simple Step-Down Switching Reg.	16-Dip	1.86	1.50	1.35
MC79L05ACDR	296-1016-1-ND	5V Fixed Negative Voltage Regulator	8-SOIC	.58	.38	.32
MC79L05ACDR	296-1016-2-ND	5V Fixed Negative Voltage Regulator	8-SOIC	330.00/2,500		
MC79L05ACLP	296-9603-5-ND	5V Fixed Negative Voltage Regulator	TO-92	.46	.34	.29
MC79L12ACD	296-9604-5-ND	12V Fixed Negative Voltage Regulator	8-SOP	.46	.34	.29
MC79L12CLP	296-9606-5-ND	12V Fixed Negative Voltage Regulator	TO-92	.63	.47	.40
MC79L15ACLP	296-9607-5-ND	15V Fixed Negative Voltage Regulator	TO-92	.68	.51	.44
TL-SCSI285KCSE3	296-21608-5-ND	2.85V Fixed Voltage Reg. for SCSI	TO-220	1.86	1.50	1.35
TL317CD	296-11823-5-ND	3-Terminal Adjustable Regulator	8-SOIC	.92	.74	.65
TL317CDR	296-24385-1-ND	3-Terminal Adjustable Reg.* ***NEW!***	8-SOIC	.97	.75	.66
TL317CDR	296-24385-2-ND	3-Terminal Adjustable Reg.* ***NEW!***	8-SOIC	797.50/2,500		
TL317CLP	296-10167-5-ND	3-Terminal Adjustable Regulator	TO-92	.92	.74	.65
TL317CPWR	296-13351-1-ND	3-Terminal Adjustable Regulator	8-TSSOP	.97	.75	.66
TL317CPWR	296-13351-2-ND	3-Terminal Adjustable Regulator	8-TSSOP	638.00/2,000		
TL430CLP	296-10181-5-ND	Adjustable Precision Shunt Regulator	TO-92	1.64	1.32	1.15
TL431ACD	296-1286-5-ND	Adjustable Precision Shunt Regulator	8-SOIC	.51	.34	.28
TL431ACDBVR	296-15236-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.47	.31	.26
TL431ACDBVR	296-15236-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	321.00/3,000		
TL431ACDBVT	296-15323-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.95	.74	.65
TL431ACDBVT	296-15323-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	126.25/250		
TL431ACDBZR	296-17328-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.52	.35	.29
TL431ACDBZR	296-17328-2-ND	Adjustable Precision Shunt Regulator	SOT-23	357.00/3,000		
TL431ACDCKR	296-17863-1-ND	Adjustable Precision Shunt Regulator	SC70-6	.52	.35	.29
TL431ACDCKR	296-17863-2-ND	Adjustable Precision Shunt Regulator	SC70-6	357.00/3,000		
TL431ACDR	296-1286-1-ND	Adjustable Precision Shunt Regulator	8-SOIC	.47	.31	.26
TL431ACDR	296-1286-2-ND	Adjustable Precision Shunt Regulator	8-SOIC	267.50/2,500		
TL431ACLP	296-1287-ND	Adjustable Precision Shunt Regulator	TO-92	.55	.37	.30
TL431ACLPR	296-1287-1-ND	Adjustable Precision Shunt Regulator	TO-92	.52	.35	.29
TL431ACLPR	296-1287-2-ND	Adjustable Precision Shunt Regulator	TO-92	238.00/2,000		
TL431ACP	296-10182-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.47	.31	.26
TL431ACPK	296-17037-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.65	.43	.35
TL431ACPK	296-17037-2-ND	Adjustable Precision Shunt Regulator	SOT-89	160.00/1,000		
TL431ACPWR	296-13353-1-ND	Adjustable Precision Shunt Regulator	8-TSSOP	.47	.31	.26
TL431AID	296-1288-5-ND	Adjustable Precision Shunt Regulator	8-SOIC	.57	.38	.31
TL431AIDBVT	296-15324-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.99	.77	.68
TL431AIDBVT	296-15324-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	132.25/250		
TL431AIDBZR	296-17329-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.59	.39	.32
TL431AIDBZR	296-17329-2-ND	Adjustable Precision Shunt Regulator	SOT-23	405.00/3,000		
TL431AIDCKR	296-17864-1-ND	Adjustable Precision Shunt Regulator	SC70-6	.59	.39	.32
TL431AIDR	296-1288-1-ND	Adjustable Precision Shunt Regulator	8-SOIC	.54	.36	.30
TL431AIDR	296-1288-2-ND	Adjustable Precision Shunt Regulator	8-SOIC	310.00/2,500		
TL431AILP	296-10183-5-ND	Adjustable Precision Shunt Regulator	TO-226AA	.45	.34	.29
TL431AILPR	296-10183-1-ND	Adjustable Precision Shunt Regulator	TO-226AA	.59	.39	.32
TL431AILPR	296-10183-2-ND	Adjustable Precision Shunt Regulator	TO-226AA	270.00/2,000		
TL431AIP	296-10184-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.53	.36	.29
TL431AIPK	296-17038-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.54	.39	.33
TL431AIPK	296-17038-2-ND	Adjustable Precision Shunt Regulator	SOT-89	168.00/1,000		
TL431AQDBVR	296-17330-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.64	.42	.35
TL431AQDBVR	296-17330-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	435.00/3,000		
TL431AQDBVRQ1	296-23433-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.54	.38	.33
TL431AQDBVRQ1	296-23433-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	456.00/3,000		
TL431AQDBZR	296-18864-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.52	.37	.32
TL431AQDBZR	296-18864-2-ND	Adjustable Precision Shunt Regulator	SOT-23	441.00/3,000		
TL431AQDBZRQ1	296-21853-1-ND	Adjustable Precision Shunt Regulator	SOT-23-3	.58	.41	.35
TL431AQDBZRQ1	296-21853-2-ND	Adjustable Precision Shunt Regulator	SOT-23-3	489.00/3,000		
TL431AQDBZT	296-26712-1-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	1.08	.84	.74
TL431AQDBZT	296-26712-2-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	245.00/500		
TL431AQPK	296-18236-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.62	.44	.37
TL431AQPK	296-18236-2-ND	Adjustable Precision Shunt Regulator	SOT-89	190.00/1,000		
TL431BCDBVR	296-18865-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.66	.47	.40
TL431BCDBZR	296-18866-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.73	.51	.44
TL431BCDBZR	296-18866-2-ND	Adjustable Precision Shunt Regulator	SOT-23	615.00/3,000		
TL431BCDBZT	296-26713-1-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	1.07	.85	.77
TL431BCDBZT	296-26713-2-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	151.50/250		
TL431BCDCKR	296-17866-1-ND	Adjustable Precision Shunt Regulator	SC70-6	.73	.51	.44
TL431BCLPR	296-17374-1-ND	Adjustable Precision Shunt Regulator	TO-92	.73	.51	.44
TL431BCLPR	296-17374-2-ND	Adjustable Precision Shunt Regulator	TO-92	410.00/2,000		
TL431BCP	296-18868-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.62	.49	.43
TL431BIDBVR	296-18871-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.72	.51	.43
TL431BIDBVR	296-18871-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	606.00/3,000		
TL431BIDBZR	296-18872-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.78	.55	.47
TL431BIDBZR	296-18872-2-ND	Adjustable Precision Shunt Regulator	SOT-23	660.00/3,000		

* RoHS Compliant

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(Continued)

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL431BIP	296-18874-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.66	.52	.45
TL431BIPK	296-18060-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.78	.61	.54
TL431BQDR	296-17886-1-ND	Adjustable Precision Shunt Regulator	8-SOIC	.72	.56	.49
TL431BQDR	296-17886-2-ND	Adjustable Precision Shunt Regulator	8-SOIC	590.00/2,500		
TL431BQLPME3	296-19380-ND	Adjustable Precision Shunt Regulator	TO-92	.75	.58	.51
TL431BIDCKR	296-17867-1-ND	Adjustable Precision Shunt Regulator	SC70-6	.78	.55	.47
TL431BIDCKR	296-17867-2-ND	Adjustable Precision Shunt Regulator	SC70-6	660.00/3,000		
TL431BILPR	296-17375-1-ND	Adjustable Precision Shunt Regulator	TO-92	.78	.55	.47
TL431BILPR	296-17375-2-ND	Adjustable Precision Shunt Regulator	TO-92	440.00/2,000		
TL431BQDBVR	296-17311-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.72	.56	.49
TL431BQDBVR	296-17311-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	708.00/3,000		
TL431BQDBZR	296-17623-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.77	.60	.53
TL431BQDBZR	296-17623-2-ND	Adjustable Precision Shunt Regulator	SOT-23	762.00/3,000		
TL431BQDBZRQ1	296-20654-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.85	.66	.58
TL431BQDBZRQ1	296-20654-2-ND	Adjustable Precision Shunt Regulator	SOT-23	840.00/3,000		
TL431BQDCKR	296-17868-1-ND	Adjustable Precision Shunt Regulator	SC70-6	.77	.60	.53
TL431BQLPR	296-17376-1-ND	Adjustable Precision Shunt Regulator	TO-92	.77	.60	.53
TL431BQLPR	296-17376-2-ND	Adjustable Precision Shunt Regulator	TO-92	508.00/2,000		
TL431CD	296-1289-5-ND	Adjustable Precision Shunt Regulator	8-SOIC	.47	.31	.26
TL431CDBVR	296-10185-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.44	.29	.24
TL431CDBVR	296-10185-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	297.00/3,000		
TL431CDBZR	296-17331-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.48	.32	.26
TL431CDBZR	296-17331-2-ND	Adjustable Precision Shunt Regulator	SOT-23	327.00/3,000		
TL431CDR	296-1289-1-ND	Adjustable Precision Shunt Regulator	8-SOIC	.85	.50	.40
TL431CDR	296-1289-2-ND	Adjustable Precision Shunt Regulator	8-SOIC	330.00/2,500		
TL431CLP	296-1290-ND	Adjustable Precision Shunt Regulator	TO-92	.51	.34	.28
TL431CLPM	296-26717-1-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	TO-92-3	.44	.29	.24
TL431CLPM	296-26717-3-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	TO-92-3	198.00/2,000		
TL431CLPR	296-1290-1-ND	Adjustable Precision Shunt Regulator	TO-92	.48	.32	.26
TL431CLPR	296-1290-2-ND	Adjustable Precision Shunt Regulator	TO-92	218.00/2,000		
TL431CP	296-1798-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.43	.29	.24
TL431CPK	296-1991-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.33	.24	.20
TL431CPSR	296-26718-1-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	8-SOP	.44	.29	.24
TL431CPSR	296-26718-2-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	8-SOP	198.00/2,000		
TL431CPWR	296-12497-1-ND	Adjustable Precision Shunt Regulator	8-TSSOP	.44	.29	.24
TL431IDBVR	296-10187-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.51	.34	.28
TL431IDBVR	296-10187-2-ND	Adjustable Precision Shunt Regulator	SOT-23-5	348.00/3,000		
TL431IDBZR	296-17332-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.55	.37	.30
TL431IDBZR	296-17332-2-ND	Adjustable Precision Shunt Regulator	SOT-23	375.00/3,000		
TL431IDR	296-1291-1-ND	Adjustable Precision Shunt Regulator	8-SOIC	.95	.56	.45
TL431IDR	296-1291-2-ND	Adjustable Precision Shunt Regulator	8-SOIC	350.00/2,500		
TL431ILP	296-1292-ND	Adjustable Precision Shunt Regulator	TO-92	.57	.38	.31
TL431ILPR	296-1292-1-ND	Adjustable Precision Shunt Regulator	TO-92	.55	.37	.30
TL431ILPR	296-1292-2-ND	Adjustable Precision Shunt Regulator	TO-92	250.00/2,000		
TL431IP	296-10188-5-ND	Adjustable Precision Shunt Regulator	8-Dip	.49	.33	.27
TL431IPK	296-10189-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.52	.37	.32
TL431IPK	296-10189-2-ND	Adjustable Precision Shunt Regulator	SOT-89	159.80/1,000		
TL431QDBVR	296-17333-1-ND	Adjustable Precision Shunt Regulator	SOT-23-5	.59	.39	.32
TL431QDBZR	296-17334-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.64	.42	.35
TL431QDBZR	296-17334-2-ND	Adjustable Precision Shunt Regulator	SOT-23	435.00/3,000		
TL431QDBZT	296-26721-1-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	1.05	.81	.72
TL431QDBZT	296-26721-2-ND	Adjustable Prec. Shunt Reg.* ***NEW!***	SOT-23-3	139.75/250		
TL432ACDBZR	296-17336-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.64	.42	.35
TL432ACDBZR	296-17336-2-ND	Adjustable Precision Shunt Regulator	SOT-23	435.00/3,000		
TL432AIDBZR	296-17338-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.64	.42	.35
TL432AIDBZR	296-17338-2-ND	Adjustable Precision Shunt Regulator	SOT-23	435.00/3,000		
TL432BCPK	296-18242-1-ND	Adjustable Precision Shunt Regulator	SOT-89	.75	.58	.51
TL432BQDBZR	296-18880-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.82	.64	.57
TL432BQDBZR	296-18880-2-ND	Adjustable Precision Shunt Regulator	SOT-23	813.00/3,000		
TL432BQDBZRQ1	296-24152-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.86	.67	.59
TL432IDBZR	296-17344-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.64	.42	.35
TL432QDBZR	296-17346-1-ND	Adjustable Precision Shunt Regulator	SOT-23	.64	.42	.35
TL497ACD	296-10195-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.86	1.50	1.35
TL497ACDR	296-10195-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.82	1.44	1.30
TL497ACDR	296-10195-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1680.00/2,500		
TL497ACN	296-10196-5-ND	1.2V Switching Voltage Regulator	14-Dip	2.02	1.63	1.47
TL497AID	296-10197-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.86	1.50	1.35
TL497AIDR	296-10197-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.82	1.44	1.30
TL497AIDR	296-10197-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1680.00/2,500		
TL497AIN	296-10198-5-ND	1.2V Switching Voltage Regulator	14-Dip	2.02	1.63	1.47
TL780-05CKTTR	296-20777-1-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-D2PAK	1.00	.80	.72
TL780-05KCS	296-14324-5-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	TO-220-3	.88	.69	.60
TL780-12KCS	296-14325-5-ND	12V, Fixed Positive Volt. Regulator	TO-220-3	.88	.69	.60
TL780-15KCS	296-14326-5-ND	15V, Fixed Positive Volt. Regulator	TO-220-3	.88	.69	.60
TL783CKCSE3	296-20687-5-ND	High Voltage Adjustable Regulator	TO-220	2.02	1.63	1.47
TL783CKTTR	296-20778-1-ND	High Voltage Adjustable Regulator	3-D2PAK	2.80	2.16	1.96
TL783CKTTR	296-20778-2-ND	High Voltage Adjustable Regulator	3-D2PAK	700.00/500		
TL2575-ADJIKV	296-21831-5-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	2.00	1.80
TL2575-ADJIN	296-21832-5-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.86	1.50	1.35
TL2575-05IKTTR	296-21824-1-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	2.63	2.03	1.84
TL2575-05IKTTR	296-21824-2-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	656.25/500		
TL2575-05IKV	296-21825-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	2.00	1.80
TL2575-05IN	296-21094-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.86	1.50	1.35
TL2575-12IKV	296-21496-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	2.00	1.80
TL2575-12IN	296-21826-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.86	1.50	1.35
TL2575-15IKV	296-21498-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	2.00	1.80
TL2575-15IN	296-21827-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.86	1.50	1.35
TL2575-33IKTTR	296-21828-1-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	2.63	2.03	1.84
TL2575-33IKTTR	296-21828-2-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	656.50/500		
TL2575-33IKV	296-21829-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	2.00	1.80
TL2575-33IN	296-21095-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.86	1.50	1.35
TL2575HV-ADJIKTTR	296-21841-1-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	3.45	2.82	2.53
TL2575HV-ADJIKTTR	296-21841-2-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	954.50/500		
TL2575HV-ADJIKV	296-21842-5-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	3.22	2.59	2.36
TL2575HV-ADJIN	296-21843-5-ND	Adjustable, 1A Simple Step Down Switching Voltage Regulator	16-Dip	3.22	2.59	2.36
TL2575HV-05IKV	296-21834-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	3.22	2.59	2.36
TL2575HV-05IN	296-21835-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	3.22	2.59	2.36
TL2575HV-12IKTTR	296-21499-1-ND	12V, 1A Simple Step Down Switching Voltage Regulator	5-D2PAK	3.45	2.82	2.53
TL2575HV-12IKV	296-21500-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	3.22	2.59	2.36
TL2575HV-12IN	296-21836-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	3.22	2.59	2.36
TL2575HV-15IKV	296-21502-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	3.22	2.59	2.36
TL2575HV-15IN	296-21837-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	3.22	2.59	2.36
TL2575HV-33IKV	296-21839-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	3.22	2.59	2.36
TL2575HV-33IN	296-21840-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	3.22	2.59	2.36
TL3577-ADJIKTTR	296-21852-1-ND	100kHz Current Mode Simple Step Up/ Flyback Switching Regulator	5-DDPAK	8.32	6.91	6.28
TLV431ACDBVR	296-1348-1-ND	Low Voltage Adj Shunt Regulator	SOT-23-5	.79	.62	.54
TLV431ACDBVR	296-1348-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	783.00/3,000		
TLV431ACDBZR	296-18912-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.87	.68	.60
TLV431ACDBZR	296-18912-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	861.00/3,000		
TLV431ACLP	296-10723-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.86	.67	.59
TLV431AID	296-10724-5-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	.72	.56	.49
TLV431AIDBVR	296-1984-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.79	.62	.54
TLV431AIDBVR	296-1984-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	783.00/3,000		
TLV431AIDBZR	296-18913-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.87	.68	.60
TLV431AIDBZR	296-18913-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	861.00/3,000		
TLV431AILP	296-10725-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.86	.67	.59
TLV431AILPR	296-24389-1-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	TO-92-3	.79	.62	.54
TLV431AILPR	296-24389-2-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	TO-92-3	522.00/2,000		
TLV431AQDBVRQ1	296-24560-1-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	SOT-23-5	.91	.71	.63
TLV431AQDBVRQ1	296-24560-2-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	SOT-23-5	900.00/3,000		
TLV431AQPK	296-22933-5-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.72	.56	.49
TLV431BCDBZR	296-17569-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-3	1.02	.79	.70
TLV431BCDBZR	296-17569-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-3	1005.00/3,000		
TLV431BCPK	296-22934-5-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.84	.66	.57
TLV431BIDBZR	296-17571-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-3	1.02	.79	.70
TLV431BIPK	296-22935-5-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.84	.66	.57
TLV431BIPKG3	296-19339-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.92	.72	.63
TLV431BQDBVR	296-17572-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.92	.72	.63
TLV431BQDBVRQ1	296-24561-1-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	SOT-23-5	1.06	.83	.73
TLV431BQDBVRQ1	296-24561-2-ND	Low Voltage Adj. Shunt Reg.* ***NEW!***	SOT-23-5	1053.00/3,000		
TLV431BQDBZR	296-17573-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-3	1.02	.79	.70
TLV431BQDCKR	296-17796-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	.92	.72	.63
TLV431BQLPR	296-17811-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.92	.72	.63
TLV431BQPK	296-22936-5-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.84	.66	.57
TLV431CDBVR	296-13616-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.72	.51	.43
TLV431CDBVR	296-13616-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	606.00/3,000		
TLV431CLP	296-10727-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.62	.49	.43
TLV431IDBVR	296-13617-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.72	.51	.43
TLV431IDBVR	296-13617-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	606.00/3,000		
TLV431IDBZR	296-18915-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.79	.56	.48
TLV431IDBZR	296-18915-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	666.00/3,000		
TLV431ILP	296-10729-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.62	.49	.43
TLV431QPK	296-22937-5-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.62	.46	.39
TLVH431ACDBVR	296-17967-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-23-5	.75	.58	.51
TLVH431ACDBVR	296-17967-2-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-23-5	741.00/3,000		
TLVH431ACDBZR	296-17968-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-23-3	.82	.64	.57
TLVH431ACDCKR	296-18043-1-ND	Low Voltage Adj. Precision Shunt Reg.	SC70-6	.75	.58	.51
TLVH431ACDCKR	296-18043-2-ND	Low Voltage Adj. Precision Shunt Reg.	SC70-6	741.00/3,000		
TLVH431AIDBZT	296-26830-1-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-3	1.28	1.02	.91
TLVH431AIDBZT	296-26830-2-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-3	181.25/250		
TLVH431AQDCKR	296-18045-1-ND	Low Voltage Adj. Precision Shunt Reg.	SC70-6	.75	.58	.51
TLVH431AQLPR	296-21131-1-ND	Low Voltage Adj. Precision Shunt Reg.	TO-92-3	.75	.58	.51
TLVH431BCDCKR	296-17797-1-ND	Low Voltage Adj. Precision Shunt Reg.	SC70-6	1.01	.79	.69
TLVH431BIDBZT	296-26831-1-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-3	1.53	1.21	1.09
TLVH431BIDBZT	296-26831-2-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-3	216.50/250		
TLVH431BIPK	296-18623-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-89	1.01	.79	.69
TLVH431BIPK	296-18623-2-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-89	368.00/1,000		
TLVH431BIPKG3	296-19346-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-89	1.01	.79	.69
TLVH431BQDBVRQ1	296-24562-1-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-5	1.01	.80	.72
TLVH431BQDBVRQ1	296-24562-2-ND	Low Voltage Adj. Precision Shunt Reg.* ***NEW!***	SOT-23-5	1113.00/3,000		
TLV431BQLP	296-23300-ND	Low Voltage Adj. Precision Shunt Reg.	TO-92	.88	.71	.62
TLVH431CDBZR	296-17973-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-23-3	.73	.57	.50
TLVH432ACDBZR	296-17976-1-ND	Low Voltage Adj. Precision Shunt Reg.	SOT-23-3	.82	.64	.57
UA78L02ACD	296-11116-5-ND	2.0V, 100mA Regulator*	8-SOP	.43	.32	.27
UA78L02ACLP	296-11117-5-ND	2.0V, 100mA Regulator	TO-92-3	.51	.38	.33
UA78L05ACD	296-1364-5-ND	5.0V, 100mA Regulator*	8-SOIC	.63	.47	.40
UA78L05ACDR	296-1364-1-ND	5.0V, 100mA Regulator*	8-SOIC	.61	.43	.37
UA78L05ACDR	296-1364-2-ND	5.0V, 100mA Regulator*	8-SOIC	427.50/2,500		
UA78L05ACLP	296-1365-ND	5.0V, 100mA Regulator	TO-92-3	.63	.47	.40
UA78L05ACLPR	296-1365-1-ND	5.0V, 100mA Regulator	TO-92-3	.61	.43	.37
UA78L05ACLPR	296-1365-2-ND	5.0V, 100mA Regulator	TO-92-3	342.00/2,000		
UA78L05ACPK	296-11118-1-ND	5.0V, 100mA Regulator	SOT-89	.67	.52	.46
UA78L05ACPK	296-11118-2-ND	5.0V, 100mA Regulator	SOT-89	243.00/1,000		
UA78L05AIDR	296-16903-1-ND	5.0V, 100mA Regulator*	8-SOIC	.72	.51	.43
UA78L05AIDR	296-16903-2-ND	5.0V, 100mA Regulator*	8-SOIC	505.00/2,500		
UA78L05AILP	296-11119-5-ND	5.0V, 100mA Regulator	TO-92-3	.61	.48	.42
UA78L05AIPK	296-17759-1-ND	5.0V, 100mA Regulator	SOT-89	.67	.52	.46
UA78L05AIPK	296-17759-2-ND	5.0V, 100mA Regulator	SOT-89	243.00/1,000		
UA78L05CD	296-11120-5-ND	5.0V, 100mA Regulator*	8-SOP	.46	.34	.29
UA78L05CLP	296-11121-5-ND	5.0V, 100mA Regulator	TO-92-3	.46	.34	.29

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

POWER SUPPLY PRODUCTS

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UA78L05CPK	296-13531-1-ND	5.0V, 100mA Regulator	SOT-89	.58	.38	.32
UA78L05CPK	296-13531-2-ND	5.0V, 100mA Regulator	SOT-89	144.00/1,000		
UA78L06ACLP	296-11122-5-ND	6.0V, 100mA Regulator*	TO-92-3	.47	.31	.26
UA78L06ACPK	296-15739-1-ND	6.0V, 100mA Regulator	SOT-89	.44	.29	.24
UA78L06ACPK	296-15739-2-ND	6.0V, 100mA Regulator	SOT-89	108.00/1,000		
UA78L08ACD	296-11123-5-ND	8.0V, 100mA Regulator*	8-SOP	.46	.34	.29
UA78L08ACDR	296-24390-1-ND	8.0V, 100mA Regulator* ***NEW!***	8-SOIC	.58	.38	.32
UA78L08ACDR	296-24390-2-ND	8.0V, 100mA Regulator* ***NEW!***	8-SOIC	330.00/2,500		
UA78L08ACLP	296-11124-5-ND	8.0V, 100mA Regulator	TO-92-3	.46	.34	.29
UA78L08ACPK	296-11125-1-ND	8.0V, 100mA Regulator	SOT-89	.58	.38	.32
UA78L09ACD	296-11126-5-ND	9.0V, 100mA Regulator	8-SOP	.51	.38	.33
UA78L09ACLP	296-11127-5-ND	9.0V, 100mA Regulator	TO-92-3	.51	.38	.33
UA78L09ACPK	296-14331-1-ND	9.0V, 100mA Regulator	SOT-89	.50	.35	.30
UA78L09ACPK	296-14331-2-ND	9.0V, 100mA Regulator	SOT-89	153.00/1,000		
UA78L10ACD	296-11129-5-ND	10.0V, 100mA Regulator*	8-SOP	.46	.34	.29
UA78L10ACDR	296-24391-1-ND	10.0V, 100mA Regulator* ***NEW!***	8-SOIC	.58	.38	.32
UA78L10ACDR	296-24391-2-ND	10.0V, 100mA Regulator* ***NEW!***	8-SOIC	330.00/2,500		
UA78L10ACLP	296-1996-ND	10.0V, 100mA Regulator	TO-92-3	.46	.34	.29
UA78L10ACPK	296-15327-1-ND	10.0V, 100mA Regulator	SOT-89	.58	.38	.32
UA78L10ACPK	296-15327-2-ND	10.0V, 100mA Regulator	SOT-89	144.00/1,000		
UA78L12ACD	296-11130-5-ND	12.0V, 100mA Regulator*	8-SOP	.46	.34	.29
UA78L12ACDR	296-15054-1-ND	12.0V, 100mA Regulator*	8-SOIC	.58	.38	.32
UA78L12ACLP	296-11131-5-ND	12.0V, 100mA Regulator	TO-92-3	.46	.34	.29
UA78L12ACLPR	296-24392-1-ND	12.0V, 100mA Regulator* ***NEW!***	TO-92-3	.58	.38	.32
UA78L12ACLPR	296-24392-2-ND	12.0V, 100mA Regulator* ***NEW!***	TO-92-3	264.00/2,000		
UA78L12ACPK	296-11132-1-ND	12.0V, 100mA Regulator	SOT-89	.58	.38	.32
UA78L12ACPK	296-11132-2-ND	12.0V, 100mA Regulator	SOT-89	144.00/1,000		
UA78L15ACLP	296-11133-ND	15.0V, 100mA Regulator	TO-92-3	.46	.34	.29
UA78M05CDCYR	296-12290-1-ND	5.0V, 500mA Regulator	SOT-223-4	.70	.55	.48
UA78M05CDCYR	296-12290-2-ND	5.0V, 500mA Regulator	SOT-223-4	580.00/2,500		
UA78M05CKCS	296-14000-5-ND	5.0V, 500mA Regulator	TO-220-3	.64	.50	.44
UA78M05CKCSE3	296-21627-5-ND	5.0V, 500mA Regulator*	TO-220-3	.64	.50	.44
UA78M05CKVURG3	296-19755-1-ND	5.0V, 500mA Regulator*	DPAK	.84	.66	.58
UA78M05IDCY	296-27139-5-ND	5.0V, 500mA Regulator* ***NEW!***	SOT-223-4	.64	.50	.44
UA78M05IDCYR	296-17616-1-ND	5.0V, 500mA Regulator	SOT-223-4	.70	.55	.48
UA78M05IKCS	296-19025-5-ND	5.0V, 500mA Regulator	TO-220-3	.64	.50	.44
UA78M05IKCSE3	296-21628-5-ND	5.0V, 500mA Regulator*	TO-220-3	.64	.50	.44
UA78M05QDCYRG4Q1	296-22950-1-ND	5.0V, 500mA Regulator	SOT-223-4	.81	.63	.56
UA78M06CKTPR	296-1366-1-ND	6.0V, 500mA Regulator	2-PFM	.76	.59	.52
UA78M06CKVURG3	296-19532-1-ND	6.0V, 500mA Regulator*	DPAK	.70	.55	.48
UA78M08CDCYR	296-12612-1-ND	8.0V, 500mA Regulator*	SOT-223-4	.66	.51	.45
UA78M08CDCYR	296-12612-2-ND	8.0V, 500mA Regulator*	SOT-223-4	545.00/2,500		
UA78M08CKCS	296-21629-5-ND	8.0V, 500mA Regulator	TO-220-3	.60	.47	.41
UA78M08CKCSE3	296-21630-5-ND	8.0V, 500mA Regulator*	TO-220-3	.60	.47	.41
UA78M08CKTPR	296-11137-1-ND	8.0V, 500mA Regulator	2-PFM	.76	.59	.52
UA78M08CKTPR	296-11137-2-ND	8.0V, 500mA Regulator	2-PFM	747.00/3,000		
UA78M09CKTPR	296-11138-1-ND	9.0V, 500mA Fixed Positive Volt. Reg.	2-PFM	.76	.59	.52
UA78M12CKCS	296-21631-5-ND	12V, 500mA Fixed Positive Volt. Reg.	TO-220-3	.64	.50	.44
UA78M12CKCSE3	296-21632-5-ND	12V, 500mA Fixed Positive Volt. Reg.	TO-220-3	.64	.50	.44
UA78M33CDCYR	296-13424-1-ND	3.3V, 500mA Fixed Positive Volt. Reg.	SOT-223-4	.66	.51	.45
UA78M33CDCYR	296-13424-2-ND	3.3V, 500mA Fixed Positive Volt. Reg.	SOT-223-4	545.00/2,500		
UA78M33CKCS	296-21633-5-ND	3.3V, 500mA Fixed Pos. Volt. Reg.*	TO-220-3	.60	.47	.41
UA78M33CKCSE3	296-21634-5-ND	3.3V, 500mA Fixed Pos. Volt. Reg.*	TO-220-3	.60	.47	.41
UA78M33QDCYRG4Q1	296-22949-1-ND	3.3V, 500mA Fixed Positive Volt. Reg.	SOT-223-4	.76	.59	.52
UA78M33QDCYRG4Q1	296-22949-2-ND	3.3V, 500mA Fixed Positive Volt. Reg.	SOT-223-4	627.50/2,500		
UA79M05CKCS	296-14001-5-ND	-5V, 500mA Negative Volt. Regulator	TO-220-3	.64	.50	.44
UA79M05CKCSE3	296-21635-5-ND	-5V, 500mA Negative Volt. Regulator*	TO-220-3	.64	.50	.44
UA79M08CKVURG3	296-19678-1-ND	500mA Negative Voltage Regulator*	DPAK	.70	.55	.48
UA79M08CKVURG3	296-19678-2-ND	500mA Negative Voltage Regulator*	DPAK	580.00/2,500		
UA723CD	296-11102-5-ND	Adjustable, Prec. Voltage Regulator*	14-SOIC	.88	.71	.62
UA723CN	296-11104-5-ND	Adjustable, Prec. Voltage Regulator*	14-Dip	.92	.72	.63
UA7805CKCS	296-13996-5-ND	5V, 1.5A Positive Voltage Regulator	TO-220-3	.80	.62	.54
UA7805CKCSE3	296-21619-5-ND	5V, 1.5A Positive Voltage Regulator*	TO-220-3	.80	.62	.54
UA7805CKTTR	296-20796-1-ND	5V, 1.5A Positive Voltage Regulator*	D2PAK-5	1.06	.82	.72
UA7805CKTTR	296-20796-2-ND	5V, 1.5A Positive Voltage Regulator*	D2PAK-5	384.00/1,000		
UA7808CKCS	296-13997-5-ND	8V, 1.5A Positive Voltage Regulator	TO-220-3	.80	.62	.54
UA7808CKCSE3	296-21620-5-ND	8V, 1.5A Positive Voltage Regulator	TO-220-3	.80	.62	.54
UA7808CKTTR	296-21933-1-ND	8V, 1.5A Positive Voltage Regulator	D2PAK-3	1.06	.82	.72
UA7810CKCS	296-21621-5-ND	10V, 1.5A Positive Voltage Regulator	TO-220-3	.84	.66	.57
UA7810CKCSE3	296-21622-5-ND	10V, 1.5A Positive Voltage Regulator*	TO-220-3	.84	.66	.57
UA7810CKTTR	296-20797-1-ND	10V, 1.5A Positive Voltage Regulator*	D2PAK-3	.96	.76	.69
UA7812CKCS	296-13998-5-ND	12V, 1.5A Positive Voltage Regulator	TO-220-3	.88	.69	.60
UA7812CKCSE3	296-21623-5-ND	12V, 1.5A Positive Voltage Regulator*	TO-220-3	.88	.69	.60
UA7812CKTTR	296-20798-1-ND	12V, 1.5A Positive Volt. Regulator*	D2PAK-5	1.00	.80	.72
UA7815CKCS	296-13999-5-ND	15V, 1.5A Positive Voltage Regulator	TO-220-3	.84	.66	.57
UA7815CKCSE3	296-21624-5-ND	15V, 1.5A Positive Voltage Regulator*	TO-220-3	.84	.66	.57
UA7815CKTTR	296-21687-1-ND	15V, 1.5A Positive Voltage Regulator*	D2PAK-3	.96	.76	.69
UA7824CKCS	296-21625-5-ND	24V, 1.5A Positive Voltage Regulator*	TO-220-3	.84	.66	.57
UA7824CKCSE3	296-21626-5-ND	24V, 1.5A Positive Voltage Regulator*	TO-220-3	.84	.66	.57
UA7905CKCS	296-17077-ND	-5V, 1.5A Negative Voltage Regulator	TO-220	.84	.66	.57
UA7905CKTER	296-17834-1-ND	-5V, 1.5A Negative Voltage Regulator	3-PFM	.88	.70	.63
UA7905CKTTR	296-20799-1-ND	-5V, 1.5A Negative Voltage Regulator*	D2PAK-3	.96	.76	.69
UA7908CKCS	296-19027-5-ND	-8V Negative Voltage Regulator*	TO-220-3	.84	.66	.57
UC2577T-ADJ	296-11159-5-ND	Adj., Simple Step Up Volt. Regulator*	TO-220-5	23.60	20.06	18.59
UC29431D	296-11209-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	11.88	9.74	8.79
UC39431D	296-11348-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	11.88	9.74	8.79
UC39431N	296-11349-5-ND	Precision Adjustable Shunt Regulator	8-Dip	11.88	9.74	8.79
UCC561DP	296-12196-5-ND	Low Volt. Diff SCSI 27-Line Reg. Set	16-SOIC	3.86	3.11	2.83

PRECISION GROUND REFERENCE

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLE2425CD	296-1344-5-ND	2.5V Precision Ground Reference*	8-SOIC	2.08	1.68	1.51
TLE2425CDR	296-1344-1-ND	2.5V Precision Ground Reference*	8-SOIC	2.00	1.54	1.40
TLE2425CDR	296-1344-2-ND	2.5V Precision Ground Reference*	8-SOIC	1923.75/2,500		
TLE2425CLP	296-1993-ND	2.5V Precision Ground Reference*	TO-92	1.77	1.43	1.29
TLE2425ID	296-6545-5-ND	2.5V Precision Ground Reference*	8-SOIC	2.08	1.68	1.51
TLE2425ILP	296-6546-5-ND	2.5V Precision Ground Reference	TO-92	1.77	1.43	1.29
TLE2426CD	296-6547-5-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.92	1.55	1.40
TLE2426CLP	296-1994-ND	1/2 Rail Virtual Ground Reference*	TO-92	1.92	1.55	1.40
TLE2426CP	296-6548-5-ND	1/2 Rail Virtual Ground Reference*	8-Dip	1.61	1.30	1.17
TLE2426ID	296-1345-5-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.92	1.55	1.40
TLE2426IDR	296-1345-1-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.82	1.41	1.28
TLE2426IDR	296-1345-2-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1755.00/2,500		
TLE2426ILP	296-6549-5-ND	1/2 Rail Virtual Ground Reference	TO-92	1.92	1.55	1.40

PRECISION GROUND REFERENCE

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLE2426IP	296-6550-5-ND	1/2 Rail Virtual Ground Reference*	8-Dip	1.61	1.30	1.17

PROGRAMMABLE GATE ARRAYS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TIBPAL16L8-10CFN	296-10082-5-ND	HP Impact-X PAL Circuits	20-PLCC	4.90	3.94	3.59
TIBPAL16L8-10CN	296-10083-5-ND	HP Impact-X PAL Circuits	20-Dip	4.90	3.94	3.59
TIBPAL16L8-15CN	296-10085-5-ND	HP Impact PAL Circuits* ***NEW!***	20-Dip	2.88	2.32	2.12
TIBPAL16L8-25CN	296-10087-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.98	2.40	2.16
TIBPAL16R4-15CN	296-10090-5-ND	HP Impact PAL Circuits	20-Dip	2.88	2.32	2.12
TIBPAL16R4-25CN	296-26685-5-ND	Low Power, HP Impact PAL Circuits* ***NEW!***	20-Dip	2.98	2.40	2.16
TIBPAL16R6-15CN	296-10095-5-ND	HP Impact PAL Circuits	20-Dip	2.91	2.35	2.12
TIBPAL16R6-25CN	296-26686-5-ND	Low Power, HP Impact PAL Circuits* ***NEW!***	20-Dip	2.98	2.40	2.16
TIBPAL16R8-25CN	296-10098-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.98	2.40	2.16
TIBPAL20L8-5CFN	296-10101-5-ND	HP Impact-X PAL Circuits	28-PLCC	22.60	19.21	17.80
TIBPAL20L8-5CNT	296-10102-5-ND	HP Impact-X PAL Circuits	24-Dip	22.60	19.21	17.80
TIBPAL20L8-15CFN	296-10100-5-ND	HP Impact PAL Circuits	28-PLCC	4.65	3.74	3.41
TIBPAL20L8-15CNT	296-26687-5-ND	HP Impact PAL Circuits* ***NEW!***	24-Dip	4.65	3.74	3.41
TIBPAL20L8-25CNT	296-26688-5-ND	Low Power, HP Impact PAL Circuits* ***NEW!***	24-Dip	3.81	3.06	2.79
TIBPAL20R8-7CFN	296-10114-5-ND	HP Impact-X PAL Circuits	28-PLCC	12.18	9.99	9.01
TIBPAL22V10ACNT	296-26689-5-ND	HP Impact Prog. Array Logic Circuit* ***NEW!***	24-Dip	6.25	5.13	4.63
TICPAL22V10Z-25CFN	296-10122-5-ND	EPIC™ CMOS PAL Circuit* ***NEW!***	28-PLCC	6.70	5.50	4.96
TICPAL22V10Z-25CNT	296-10123-5-ND	EPIC™ CMOS PAL Circuit* ***NEW!***	24-Dip	6.70	5.50	4.96

REALTIME CLOCKS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ48SH-28X6NSH	296-13634-5-ND	SNAPHAT™ w/Integ. Battery/Crystal*	—	11.50	9.43	8.51
BQ3285EP	296-2595-5-ND	RealTime Clock	24-Dip	5.88	4.73	4.31
BQ3285ES	296-2596-5-ND	RealTime Clock*	24-SOIC	6.38	5.23	4.72
BQ3285ESS	296-2597-5-ND	RealTime Clock*	24-QSOP	6.38	5.23	4.72
BQ3285LDSS	296-2599-5-ND	ACPI Compliant RealTime Clock*	24-QSOP	6.38	5.23	4.72
BQ3285LFSS-A1	296-6518-5-ND	ACPI Compliant RTC, (240x8) NVSRAM*	24-QSOP	6.38	5.23	4.72
BQ3285P-SB2	296-2601-5-ND	RealTime Clock	24-Dip	5.88	4.73	4.31
BQ3285S-SB2	296-6519-5-ND	RTC with (114x8) NVSRAM*	24-SOP	6.38	5.23	4.72
BQ3287AMT-SB2	296-6520-5-ND	RTC Module with (114x8) NVSRAM	24-Dip	8.83	7.24	6.54
BQ3287EAMT	296-6521-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	24-Dip	8.83	7.24	6.54
BQ3287EMT	296-6522-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	24-Dip	8.83	7.24	6.54
BQ3287MT-I	296-6523-5-ND	RTC Module with (114x8) NVSRAM*	24-Dip	8.83	7.24	6.54
BQ3287MT-SB2	296-6524-5-ND	RTC Module with (114x8) NVSRAM	24-Dip	8.83	7.24	6.54
BQ4285EP	296-6525-5-ND	RTC, (114x8) NVSRAM/Alarm Wake-up	24-Dip	7.25	5.95	5.37
BQ4285P-SB2	296-6527-5-ND	RTC with (114x8) NVSRAM/NVSRAM Cont.	24-Dip	7.25	5.95	5.37
BQ4285S-SB2	296-6528-5-ND	RTC with (114x8) NVSRAM/NVSRAM Cont.	24-SOP	8.75	7.18	6.48
BQ4287MT-SB2	296-6529-5-ND	RTC Module with (114x8) NVSRAM/ NVSRAM Control	24-Dip	12.18	9.99	9.01
BQ4802YDSH	296-15353-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	SNAPHAT▲	9.45	7.75	7.00
BQ4802LYDW	296-19936-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	7.50	6.15	5.55
BQ4802LYDWR	296-6530-1-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	6.63	5.50	5.00
BQ4802LYDWR	296-6530-2-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	3375.00/1,000		
BQ4802LYPW	296-12757-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-TSSOP	7.50	6.15	5.55
BQ4802YDW	296-6531-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	28-SOIC	9.38	7.69	6.94
BQ4802YPW	296-12758-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-TSSOP	9.38	7.69	6.94
BQ4822YMA-70	296-6532-5-ND	RTC Module with (8Kx8) NVSRAM/ Watchdog Timer*	A-MOD	28.98	24.64	22.83
BQ4830YMA-85	296-6533-5-ND	RTC Module with (32Kx8) NVSRAM	A-MOD	23.68	20.13	18.65
BQ4832YMA-85	296-6534-5-ND	RTC Module with (32Kx8) NVSRAM/ Watchdog Timer	32-Dip	38.06	32.36	29.98
BQ4842YMA-85	296-6535-5-ND	RTC Module with (128Kx8) NVSRAM/ Watchdog Timer	32-Dip	40.87	35.35	33.14
BQ4845P-A4	296-6536-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-Dip	6.25	5.13	4.63
BQ4845S-A4	296-6537-5-ND	RTC with NVSRAM Cont./ Watchdog Timer*	28-SOIC	7.50	6.15	5.55
BQ4845S-A4N	296-6538-5-ND	RTC with NVSRAM Cont./ Watchdog Timer*	28-SOIC	7.50	6.15	5.55
BQ4845YS-A4	296-6539-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	7.50	6.15	5.55
BQ4845YS-A4N	296-6540-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	7.50	6.15	5.55
BQ4847MT	296-6541-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	12.30	10.35	9.51
BQ4847YMT	296-6542-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	12.30	10.35	9.51
BQ4850YMA-85	296-6543-5-ND	RTC Module with (512Kx8) NVSRAM	32-Dip	58.09	51.26	48.70
BQ4852YMC-85	296-6544-5-ND	RTC Module with (512Kx8) NVSRAM/ Watchdog Timer	36-Dip	72.83	65.11	61.80
BQ32000DR	296-24583-1-ND	RealTime Clock* ***NEW!***	8-SOIC	2.63	2.03	1.84
BQ32000DR	296-24583-2-ND	RealTime Clock* ***NEW!***	8-SOIC	2531.25/2,500		

▲ SNAPHAT requires the BQ48SH-28x6 to complete the two piece module.

SIGNAL CONTROLLERS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Audio Processors / CODECs				
6PAIC23BIPWRG4Q1	296-24241-1-ND	24-Bit Stereo Audio CODEC* ***NEW!***	28-TSSOP	10.47	8.69	7.90
6PAIC23BIPWRG4Q1	296-24241-2-ND	24-Bit Stereo Audio CODEC* ***NEW!***	28-TSSOP	10270.00/2,000		
6PAIC3106IRGZRQ1	296-25253-1-ND	24-Bit Stereo Audio CODEC* ***NEW!***	48-QFN	7.02	5.83	5.30
6PAIC3106IRGZRQ1	296-25253-2-ND	24-Bit Stereo Audio CODEC* ***NEW!***	48-QFN	8612.50/2,500		
AIC111EVM	296-18386-ND	Evaluation Module for AIC111	—	50.00	—	—
AIC111RHB	296-15335-ND	1.3V MicroPower DSP Voice Band Audio CODEC	32-QFN	13.75	11.57	10.63
PCM2900E	296-13034-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	12.34	10.38	9.54
PCM2901E	296-12985-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	11.00	9.25	8.50

* *RoHS Compliant*

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(Continued)

SIGNAL CONTROLLERS

(Cont.)

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM2902BDBR	296-24275-1-ND	16-Bit Stereo Audio CODEC, USB Interface* ***NEW!***	28-SSOP	11.93	9.90	9.00
PCM2902BDBR	296-24275-2-ND	16-Bit Stereo Audio CODEC, USB Interface* ***NEW!***	28-SSOP	11700.00/2,000		
PCM2902E	296-12986-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	11.77	9.90	9.10
PCM2903BDBR	296-24276-1-ND	16-Bit Stereo Audio CODEC, USB Interface* ***NEW!***	28-SSOP	11.93	9.90	9.00
PCM2903BDBR	296-24276-2-ND	16-Bit Stereo Audio CODEC, USB Interface* ***NEW!***	28-SSOP	11700.00/2,000		
PCM2903E	296-12987-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	11.77	9.90	9.10
PCM2904DB	296-13478-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	11.00	9.25	8.50
PCM2906BDBR	296-24138-1-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	11.93	9.90	9.00
PCM2906DB	296-13479-5-ND	16-Bit Stereo Audio CODEC, USB Interface	28-SSOP	13.46	11.33	10.41
PCM2912APJT	296-23950-ND	USB Stereo Audio CODEC	32-TQFP	11.77	9.90	9.10
PCM2912PJT	296-23130-ND	USB Stereo Audio CODEC	32-TQFP	11.77	9.90	9.10
PCM3000E	PCM3000E-ND	Stereo Audio CODEC 18-Bit, 3-Wire Interface	28-SSOP	10.38	8.51	7.68
PCM3001E	PCM3001E-ND	Stereo Audio CODEC 18-Bit, Pin Prog.	28-SSOP	10.38	8.51	7.68
PCM3002E	PCM3002E-ND	20-Bit, Stereo CODEC, Software	24-SSOP	10.38	8.51	7.68
PCM3003E	PCM3003E-ND	20-Bit, Stereo CODEC, Hardware Control	24-SSOP	10.38	8.51	7.68
PCM3006T/2K	296-21639-1-ND	16-Bit, Single Ended Analog In/Out Stereo Audio CODEC	24-SSOP	9.14	7.59	6.90
PCM3008T	PCM3008T-ND	16-Bit, LP/Voltage Stereo CODEC	16-TSSOP	9.38	7.69	6.94
PCM3010DB	296-14398-5-ND	24-Bit, Stereo Audio CODEC	24-SSOP	12.00	9.84	8.88
PCM3060PW	296-21668-5-ND	24-Bit, 96/192kHz Async Stereo Audio CODEC	28-TSSOP	6.58	5.29	4.82
PCM3168APAP	296-23899-5-ND	24-Bit, 96/192kHz Audio CODEC with Diff. I/O	64-HTQFP	13.20	11.10	10.20
PCM3168ATPAPQ1	296-23900-5-ND	24-Bit, 96/192kHz Audio CODEC with Diff. I/O	64-HTQFP	16.72	14.06	12.92
PCM3500E	PCM3500E-ND	Voice/Modem CODEC	24-SSOP	9.88	8.10	7.31
PCM3501E	PCM3501E-ND	Voice/Modem CODEC	24-SSOP	9.88	8.10	7.31
PCM3794ARHBR	296-21538-1-ND	16-Bit, LP Stereo Audio CODEC	32-QFN	11.26	9.35	8.50
PCM5310PAPR	296-24214-1-ND	24-Bit, 4-Ch. Async. Audio CODEC* ***NEW!***	64-HTQFP	9.01	7.48	6.80
PCM5310PAPR	296-24214-2-ND	24-Bit, 4-Ch. Async. Audio CODEC* ***NEW!***	64-HTQFP	4590.00/1,000		
SRC4184IPAG	296-17309-ND	4-Ch. Async. Sample Rate Converter	64-TQFP	15.73	13.23	12.16
SRC4190IDB	296-15337-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	9.98	8.18	7.39
SRC4192EVM	296-18834-ND	Evaluation Module for SRC4192	—	203.00	—	—
SRC4192IDB	296-15234-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	14.94	12.57	11.55
SRC4193IDB	296-15235-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	14.94	12.57	11.55
SRC4194EVM	296-17284-ND	Evaluation Module for SRC4194	—	203.00	—	—
SRC4194IPAG	296-17310-ND	4-Ch. Async. Sample Rate Converter	64-TQFP	22.90	19.47	18.04
SRC4382IPFB	296-26675-ND	2-Ch. Async. Sample Rate Converter* ***NEW!***	48-TQFP	17.16	14.43	13.26
SRC4392IPFB	296-26676-ND	2-Ch. Async. Sample Rate Converter* ***NEW!***	48-TQFP	20.40	17.34	16.07
TAS1020BPFB	296-13041-5-ND	Stereo USB Audio Interface	48-TQFP	7.60	6.24	5.63
TAS3001CPW	296-2208-5-ND	Stereo Digital Equalizer	28-TSSOP	5.12	4.12	3.76
TAS3002PFB	296-9977-ND	Digital Audio Processor with CODEC	48-TQFP	8.88	7.28	6.57
TAS3004PFB	296-9978-ND	Digital Audio Processor with CODEC	48-TQFP	9.63	7.90	7.13
TAS3103ADBT	296-19553-5-ND	48-Bit Digital Audio Processor	38-TSSOP	10.38	8.51	7.68
TAS3108DCP	296-20652-5-ND	8-Channel Prog. Audio DSP	38-TSSOP	11.22	9.44	8.67
TAS3108IADCP	296-20653-5-ND	8-Channel Prog. Audio DSP	38-TSSOP	12.65	10.64	9.78
TAS3204PAG	296-21712-ND	Audio DSP	64-TQFP	13.53	11.38	10.46
TAS3208IPZP	296-23645-ND	Digital Audio Processor	100-HTQFP	15.07	12.68	11.65
TAS3208PZP	296-21713-ND	Digital Audio Processor	100-HTQFP	14.30	12.03	11.05
TAS3218IPZP	296-23686-ND	Digital Audio Processor	100-TQFP	16.28	13.69	12.58
TAS3308PZT	296-23532-ND	Digital Audio Processor	100-TQFP	14.52	12.21	11.22
TAS5001IPFB	296-12556-ND	Digital Audio PWM Processor	48-TQFP	9.88	8.10	7.31
TAS5001PFB	296-12212-ND	Digital Audio PWM Processor	48-TQFP	8.88	7.28	6.57
TAS5010IPFB	296-12557-ND	Digital Audio PWM Processor	48-TQFP	12.25	10.05	9.07
TAS5010PFB	296-12213-ND	Digital Audio PWM Processor	48-TQFP	11.13	9.13	8.24
TAS5012IPFB	296-12558-ND	Digital Audio PWM Processor	48-TQFP	16.06	13.51	12.41
TAS5012PFB	296-12214-ND	Digital Audio PWM Processor	48-TQFP	14.63	12.31	11.31
TAS5026APAG	296-14401-ND	Digital Audio PWM Processor	64-TQFP	18.99	15.97	14.68
TAS5028PAG	296-17116-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	16.28	13.69	12.58
TAS5036APFC	296-13856-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	34.34	29.19	27.05
TAS5036BPFC	296-14976-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	28.64	24.35	22.56
TAS5066PAG	296-16772-ND	24-Bit, 6-Channel Digital PWM	64-TQFP	18.99	15.97	14.68
TAS5076PFC	296-16643-ND	24-Bit, 6-Channel Digital PWM	80-TQFP	33.40	28.39	26.31
TAS5086DBT	296-17808-5-ND	Audio 6-Channel PWM Processor	38-TSSOP	5.46	4.39	4.00
TAS5086DBTR	296-26678-1-ND	6-Ch. Digital Audio PWM Processor* ***NEW!***	38-TSSOP	4.80	3.92	3.52
TAS5086DBTR	296-26678-2-ND	6-Ch. Digital Audio PWM Processor* ***NEW!***	38-TSSOP	4256.00/2,000		
TAS5504APAG	296-19509-ND	4-Ch. Digital Audio PWM Processor	64-TQFP	8.75	7.18	6.48
TAS5504PAG	296-18034-ND	4-Ch. Digital Audio PWM Processor	64-TQFP	8.75	7.18	6.48
TAS5508BPAG	296-19417-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	11.00	9.25	8.50
TAS5508BPAGR	296-26679-1-ND	8-Ch. Digital Audio PWM Processor* ***NEW!***	64-TQFP	11.50	9.75	9.00
TAS5508BPAGR	296-26679-2-ND	8-Ch. Digital Audio PWM Processor* ***NEW!***	64-TQFP	9975.00/1,500		
TAS5508PAG	296-17020-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	13.93	11.72	10.77
TAS5518CPAG	296-23940-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	17.49	14.71	13.52
TAS5518PAG	296-17249-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	17.49	14.71	13.52
TLC320AC01CFN	296-10267-5-ND	14-Bit AIC Audio CODEC	28-PLCC	10.75	8.82	7.96
TLC320AC01CPMR	296-1982-1-ND	14-Bit AIC Audio CODEC	64-LQFP	9.30	7.73	7.02
TLC320AD50CPT	296-10274-ND	Single Channel CODEC* ***NEW!***	48-LQFP	38.50	32.73	30.32
TLC320AD77CDB	296-2210-5-ND	24-Bit, Stereo CODEC	28-SSOP	9.50	7.79	7.03
TLC320AD545IPT	296-10276-ND	Single Ch. CODEC w/Hybrid Op Amps	48-LQFP	9.38	7.69	6.94
TLC320AD545PT	296-10277-ND	Single Ch. CODEC w/Hybrid Op Amps	48-LQFP	7.75	6.36	5.74
TLV320ADC3101IRGET	296-24027-1-ND	Low Power Stereo Audio ADC	24-VQFN	5.40	4.41	3.96
TLV320ADC3101IRGET	296-24027-2-ND	Low Power Stereo Audio ADC	24-VQFN	832.50/250		
TLV320AIC10CPFB	296-2214-ND	3V-5.5V, 16-Bit, 22kSPS DSP CODEC	48-TQFP	6.50	5.33	4.81
TLV320AIC10EVM	296-10701-ND	Evaluation Module for TLV320AIC10	—	101.00	—	—
TLV320AIC10IPFB	296-10702-ND	3V-5.5V, 16-Bit, 22kSPS DSP CODEC	48-TQFP	7.13	5.85	5.28
TLV320AIC11CPFB	296-2215-ND	16-Bit, 22kSPS DSP CODEC	48-TQFP	7.50	6.15	5.55
TLV320AIC11IPFB	296-10703-ND	16-Bit, 22kSPS DSP CODEC	48-QFP	8.13	6.67	6.02
TLV320AIC12EVM	296-13566-ND	Evaluation Module for TLV320AIC12	—	69.05	—	—
TLV320AIC12IDBT	296-12398-5-ND	16-Bit, 26kSPS Mono CODEC	30-TSSOP	11.31	9.51	8.74
TLV320AIC12KIDBT	296-19421-5-ND	16-Bit, 26kSPS Mono CODEC	30-TSSOP	5.46	4.39	4.00
TLV320AIC12KIRHBR	296-21521-1-ND	16-Bit, 26kSPS Mono CODEC	32-VQFN	4.80	3.92	3.52
TLV320AIC12KIRHBR	296-21521-2-ND	16-Bit, 26kSPS Mono CODEC	32-VQFN	6384.00/3,000		
TLV320AIC13IDBT	296-12504-5-ND	16-Bit, 26kSPS Mono CODEC	30-TSSOP	14.96	12.58	11.56
TLV320AIC14IDBT	296-12399-5-ND	16-Bit, 26kSPS Mono CODEC	30-TSSOP	11.90	9.76	8.81
TLV320AIC14KIDBT	296-19635-5-ND	16-Bit, 26kSPS Mono CODEC	30-SM8	4.62	3.72	3.39
TLV320AIC15IDBT	296-12505-5-ND	16-Bit, 26kSPS Mono CODEC	30-TSSOP	15.80	13.29	12.21
TLV320AIC20KEVM	296-21119-ND	Evaluation Module for TLV320AIC20K	—	50.00	—	—
TLV320AIC20KIPFB	296-17965-ND	16-Bit, 26kSPS, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	8.00	6.56	5.92
TLV320AIC22CPT	296-13661-ND	Dual Voice Over Internet Protocol (VoIP) CODEC	48-LQFP	8.80	7.22	6.52
TLV320AIC23BGQE	296-13992-5-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	10.50	8.61	7.77
TLV320AIC23BIGQE	296-15030-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	11.50	9.43	8.51
TLV320AIC23BIPWR	296-15031-1-ND	Stereo Audio CODEC	28-TSSOP	9.94	8.25	7.50
TLV320AIC23BIPWR	296-15031-2-ND	Stereo Audio CODEC	28-TSSOP	9750.00/2,000		
TLV320AIC23BIZQE	296-15342-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	11.13	9.13	8.24
TLV320AIC23BPW	296-15635-5-ND	8-96kHz, Stereo Audio CODEC	28-TSSOP	10.13	8.31	7.50
TLV320AIC23GQE	296-12026-5-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	9.35	7.67	6.92
TLV320AIC24IPFB	296-12690-ND	16-Bit, 26kSPS, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	14.30	12.03	11.05
TLV320AIC24KIPFB	296-17966-ND	16-Bit, 26kSPS, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	7.25	5.95	5.37
TLV320AIC25IPFB	296-12713-ND	16-Bit, 26kSPS Dual-Channel CODEC	48-TQFP	13.38	11.25	10.34
TLV320AIC26EVM	296-16986-ND	Audio CODEC Evaluation Module	—	101.00	—	—
TLV320AIC26IRHB	296-18911-ND	Low Power Stereo Audio CODEC	32-VQFN	8.25	6.77	6.11
TLV320AIC28IRGZ	296-16847-5-ND	Stereo Audio CODEC	48-VQFN	10.13	8.31	7.50
TLV320AIC31EVM-PDK	296-19476-ND	Eval Kit/Demo for TLV320AIC31	—	152.00	—	—
TLV320AIC32EVM	296-21121-ND	Evaluation Module for TLV320AIC32	—	50.00	—	—
TLV320AIC32EVM-PDK	296-21122-ND	Evaluation Kit for TLV320AIC32	—	152.00	—	—
TLV320AIC32IRHBT	296-21123-1-ND	Low Power Stereo Audio CODEC	32-VQFN	9.94	8.25	7.50
TLV320AIC32IRHBT	296-21123-2-ND	Low Power Stereo Audio CODEC	32-VQFN	1593.75/250		
TLV320AIC33EVM-PDK	296-21125-ND	Evaluation Kit for TLV320AIC33	—	152.00	—	—
TLV320AIC33IGQE	296-19440-ND	Low Power Stereo Audio CODEC	80-BGA	10.38	8.51	7.68
TLV320AIC33IRGZR	296-19789-1-ND	Low Power Stereo Audio CODEC	48-VQFN	9.14	7.59	6.90
TLV320AIC33IRGZR	296-19789-2-ND	Low Power Stereo Audio CODEC	48-VQFN	11212.50/2,500		
TLV320AIC33IZQE	296-26820-ND	LP Stereo Audio CODEC* ***NEW!***	80-BGA	10.38	8.51	7.68
TLV320AIC36IZQER	296-24673-1-ND	LP Stereo Audio CODEC* ***NEW!***	80-BGA	11.26	9.35	8.50
TLV320AIC36IZQER	296-24673-2-ND	LP Stereo Audio CODEC* ***NEW!***	80-BGA	13812.50/2,500		
TLV320AIC3100IRHBR	296-25494-1-ND	LP Mono/Stereo Audio CODEC* ***NEW!***	32-QFN	5.85	4.78	4.29
TLV320AIC3100IRHBR	296-25494-2-ND	LP Mono/Stereo Audio CODEC* ***NEW!***	32-QFN	7782.00/3,000		
TLV320AIC3104IRHBR	296-26818-1-ND	LP Stereo Audio CODEC* ***NEW!***	32-VQFN	5.85	4.78	4.29
TLV320AIC3104IRHBR	296-26818-2-ND	LP Stereo Audio CODEC* ***NEW!***	32-VQFN	7782.00/3,000		
TLV320AIC3110IRHBR	296-25584-1-ND	LP Mono/Stereo Audio CODEC* ***NEW!***	32-QFN	6.75	5.52	4.95
TLV320AIC3110IRHBR	296-25584-2-ND	LP Mono/Stereo Audio CODEC* ***NEW!***	32-QFN	8979.00/3,000		
TLV320AIC3111IRHBT	296-25188-1-ND	24-Bit Stereo Audio CODEC* ***NEW!***	32-QFN	9.01	7.48	6.80
TLV320AIC3111IRHBT	296-25188-2-ND	24-Bit Stereo Audio CODEC* ***NEW!***	32-QFN	1445.00/250		
TLV320AIC3120IRHBT	296-25815-1-ND	LP Mono Audio CODEC* ***NEW!***	32-QFN	6.89	5.72	5.20
TLV320AIC3120IRHBT	296-25815-2-ND	LP Mono Audio CODEC* ***NEW!***	32-QFN	1105.00/250		
TLV320AIC1103PBS	296-13001-1-ND	2.7V PCM CODEC	32-TQFP	9.01	7.48	6.80
TLV320AIC1106PW	296-15634-5-ND	PCM CODEC	20-TSSOP	8.13	6.67	6.02
TLV320AIC1110PBS	296-13508-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	8.63	7.08	6.39
TLV320AIC3007IRSBT	296-24373-1-ND	LP Stereo Audio CODEC* ***NEW!***	40-QFN	7.16	5.94	5.40
TLV320AIC3007IRSBT	296-24373-2-ND	LP Stereo Audio CODEC* ***NEW!***	40-QFN	1147.50/250		
TLV320AIC3106IRGZR	296-22705-1-ND	Low Power Stereo Audio CODEC	48-VQFN	6.75	5.52	4.95
TLV320AIC3106IRGZR	296-22705-2-ND	Low Power Stereo Audio CODEC	48-VQFN	7482.50/2,500		
TLV320AIC3107IRSBR	296-23928-1-ND	Low Power Stereo Audio CODEC	40-QFN	6.76	5.61	5.10
TLV320AIC3107IRSBR	296-23928-2-ND	Low Power Stereo Audio CODEC	40-QFN	9945.00/3,000		
TLV320AIC3107IYZFR	296-24234-1-ND	Low Pwr Stereo Audio CODEC* ***NEW!***	42-BGA	6.76	5.61	5.10
TLV320AIC3107IYZFR	296-24234-2-ND	Low Pwr Stereo Audio CODEC* ***NEW!***	42-BGA	9945.00/3,000		
TLV320AIC3254IRHBR	296-23776-1-ND	Ultra Low Power Stereo Audio CODEC	32-QFN	10.47	8.69	7.90
TSC2117IRGZT	296-24324-1-ND	Audio CODEC/Touch-Screen Controller* ***NEW!***	48-QFN	11.85	10.05	9.27
TSC2117IRGZT	296-24324-2-ND	Audio CODEC/Touch-Screen Controller* ***NEW!***	48-QFN	1995.75/250		
TWL1200YFFR	296-25457-1-ND	19-Bit Voltage Transceiver* ***NEW!***	49-DSBGA	5.40	4.41	3.96
TWL1200YFFR	296-25457-2-ND	19-Bit Voltage Transceiver* ***NEW!***	49-DSBGA	7182.00/3,000		

TEMPERATURE SENSORS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC6821SDBQ	296-22738-5-ND	Intelligent Temp. Monitor and PWM Fan Controller	16-QSOP	3.36	2.70	2.46
AMC6821SQDBQRQ1	296-24899-1-ND	Intelligent Temp. Monitor and PWM Fan Controller* ***NEW!***	16-QSOP	3.60	2.94	2.64
AMC6821SQDBQRQ1	296-24899-2-ND	Intelligent Temp. Monitor and PWM Fan Controller* ***NEW!***	16-QSOP	3990.00/2,500		
SENSOREMULATOREVM	296-20990-ND	Emulator Sensor	—	203.00	—	—
TMP20AIDCKR	296-25569-1-ND	Analog Output Temp. Sensor* ***NEW!***	SC70-5	.96	.76	.69
TMP20AIDCKR	296-25569-2-ND	Analog Output Temp. Sensor* ***NEW!***	SC70-5	1059.00/3,000		
TMP20AIDCKT	296-25602-1-ND	Analog Output Temp. Sensor* ***NEW!***	SC70-5	1.10	.87	.79
TMP20AIDCKT	296-25602-2-ND	Analog Output Temp. Sensor* ***NEW!***	SC70-5	156.00/250		
TMP20AIDRLT	296-25570-1-ND	Analog Output Temp. Sensor* ***NEW!***	SOT-6	1.10	.87	.79
TMP20AIDRLT	296-25570-2-ND	Analog Output Temp. Sensor* ***NEW!***	SOT-6	156.00/250		
TMP75AIDGKR	296-26837-1-ND	Digital Temp. Sensor 2-Wire Interface* ***NEW!***	8-MSOP	1.34	1.06	.96
TMP75AIDGKR	296-26837-2-ND	Digital Temp. Sensor 2-Wire Interface* ***NEW!***	8-MSOP	1235.00/2,500		
TMP75AIDGKT	296-18637-1-ND	Digital Temp. Sensor 2-Wire Interface	8-MSOP	1.54	1.22	1.10
TMP75AIDR	296-17838-1-ND	Digital Temp. Sensor 2-Wire Interface	8-SOIC	1.34	1.06	.96
TMP75AIDR	296-17838-2-ND	Digital Temp. Sensor 2-Wire Interface	8-SOIC	1235.00/2,500		
TMP100EVM	296-21135-ND	Evaluation Module for TMP100	—	50.00	—	—
TMP100MDBVREP	296-19524-1-ND	Digital Temperature Sensor	SOT-23-6	6.51	5.32	4.78
TMP100MDBVREP	296-19524-2-ND	Digital Temperature Sensor	SOT-23-6	8658.00/3,000		
TMP100NA/3K	296-26833-1-ND	Digital Temperature Sensor* ***NEW!***	SOT-23-6	2.63	2.03	1.84
TMP100NA/3K	296-26833-2-ND	Digital Temperature Sensor* ***NEW!***	SOT-23-6	3039.00/3,000		
TMP100NA/250	296-12749-1-ND	Digital Temperature Sensor	SOT-23-6	3.15	2.43	2.21

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

TEMPERATURE SENSORS

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TMP100NA/250	296-12749-2-ND	Digital Temperature Sensor	SOT-23-6	450.00/250		
TMP101NA/250	296-12750-1-ND	Digital Temperature Sensor w/Alert	SOT-23-6	3.33	2.57	2.33
TMP101NA/250	296-12750-2-ND	Digital Temperature Sensor w/Alert	SOT-23-6	475.00/250		
TMP102AIDRLT	296-22055-1-ND	LP Digital Temperature Sensor	SOT-6	3.15	2.43	2.21
TMP102AIDRLT	296-22055-2-ND	LP Digital Temperature Sensor	SOT-6	450.00/250		
TMP105YZCT	296-19636-1-ND	Digital Temperature Sensor	6-DSBGA	3.00	2.45	2.20
TMP106YZCT	296-19637-1-ND	Digital Temperature Sensor	6-DSBGA	3.00	2.45	2.20
TMP112AIDRLT	296-24621-1-ND	Digital Temperature Sensor* ***NEW!***	SOT-6	3.00	2.45	2.20
TMP112AIDRLT	296-24621-2-ND	Digital Temperature Sensor* ***NEW!***	SOT-6	462.50/250		
TMP121AIDBVT	296-15177-1-ND	Digital Temperature Sensor	SOT-23-6	3.15	2.58	2.31
TMP121AIDBVT	296-15177-2-ND	Digital Temperature Sensor	SOT-23-6	485.75/250		
TMP122AIDBVT	296-15178-1-ND	Prog. Digital Temperature Sensor	SOT-23-6	3.45	2.82	2.53
TMP122AIDBVT	296-15178-2-ND	Prog. Digital Temperature Sensor	SOT-23-6	532.00/250		
TMP122EVM	296-21136-ND	Evaluation Module for TMP122	—	50.00	—	—
TMP123AIDBVT	296-15832-1-ND	Digital Temperature Sensor with SPI	SOT-23-6	3.15	2.58	2.31
TMP123AIDBVT	296-15832-2-ND	Digital Temperature Sensor with SPI	SOT-23-6	485.75/250		
TMP124AID	296-16977-ND	Digital Temperature Sensor with SPI	8-SOIC	3.08	2.48	2.26
TMP125AIDBVT	296-17690-1-ND	Digital Temperature Sensor w/SPI	SOT-23-6	3.33	2.57	2.33
TMP125AIDBVT	296-17690-2-ND	Digital Temperature Sensor w/SPI	SOT-23-6	475.00/250		
TMP175AIDGKT	296-19882-1-ND	Digital Temp. Sensor 2-Wire Interface	8-MSOP	3.00	2.45	2.20
TMP175AIDGKT	296-19882-2-ND	Digital Temp. Sensor 2-Wire Interface	8-MSOP	462.50/250		
TMP175AIDR	296-17837-1-ND	Digital Temp. Sensor 2-Wire Interface	8-SOIC	2.98	2.30	2.09
TMP175AIDR	296-17837-2-ND	Digital Temp. Sensor 2-Wire Interface	8-SOIC	2870.00/2,500		
TMP275AID	296-21416-5-ND	0.5°C Digital Out Temp. Sensor	8-SOIC	4.20	3.38	3.08
TMP275AIDGKT	296-19883-1-ND	0.5°C Digital Out Temp. Sensor	8-MSOP	4.35	3.56	3.19
TMP275AIDGKT	296-19883-2-ND	0.5°C Digital Out Temp. Sensor	8-MSOP	670.75/250		
TMP300AIDBVT	296-24010-1-ND	1.8V, Resistor Prog. Temp. Switch	SOT-23-6	2.10	1.62	1.47
TMP300AIDBVT	296-24010-2-ND	1.8V, Resistor Prog. Temp. Switch	SOT-23-6	300.00/250		
TMP302ADRLT	296-25144-1-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	1.31	1.04	.94
TMP302ADRLT	296-25144-2-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	518.00/1,000		
TMP302BDRLT	296-25145-1-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	1.31	1.04	.94
TMP302BDRLT	296-25145-2-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	518.00/1,000		
TMP302CDRLT	296-25146-1-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	1.31	1.04	.94
TMP302CDRLT	296-25146-2-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	518.00/1,000		
TMP302DDRLT	296-25147-1-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	1.31	1.04	.94
TMP302DDRLT	296-25147-2-ND	1.4V, Temperature Switch* ***NEW!***	SOT563-6	518.00/1,000		
TMP303ADRLT	296-25120-1-ND	1.4V, Temp. Range Monitor* ***NEW!***	SOT563-6	1.31	1.04	.94
TMP303ADRLT	296-25120-2-ND	1.4V, Temp. Range Monitor* ***NEW!***	SOT563-6	185.50/250		
TMP401AIDGKR	296-20710-1-ND	Remote Digital Temperature Sensor	8-MSOP	2.98	2.30	2.09
TMP401AIDGKR	296-20710-2-ND	Remote Digital Temperature Sensor	8-MSOP	2870.00/2,500		
TMP411AD	296-22886-5-ND	±1°C Remote/Local Temp. Sensor	8-SOIC	1.62	1.30	1.14
TMP411ADGKR	296-21417-1-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	1.44	1.14	1.03
TMP411ADGKR	296-21417-2-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	1322.50/2,500		
TMP411BD	296-22887-5-ND	±1°C Remote/Local Temp. Sensor	8-SOIC	1.62	1.30	1.14
TMP411BDGKR	296-21418-1-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	1.44	1.14	1.03
TMP411CDR	296-23546-1-ND	±1°C Remote/Local Temp. Sensor	8-SOIC	1.44	1.14	1.03
TMP411CDR	296-23546-2-ND	±1°C Remote/Local Temp. Sensor	8-SOIC	1322.50/2,500		
TMP421AIDCNT	296-21990-1-ND	Remote Temperature Sensor	SOT-23-8	2.28	1.76	1.60
TMP421AIDCNT	296-21990-2-ND	Remote Temperature Sensor	SOT-23-8	325.00/250		
TMP423AIDCNT	296-23323-1-ND	±1°C Remote/Local Temp. Sensor	SOT-23-8	3.15	2.43	2.21
TMP423BIDCNT	296-23324-1-ND	±1°C Remote/Local Temp. Sensor	SOT-23-8	3.15	2.43	2.21
TMP431ADGKT	296-25148-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	8-MSOP	1.76	1.39	1.25
TMP431ADGKT	296-25148-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	8-MSOP	248.25250		
TMP431BDGKT	296-25149-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	8-MSOP	1.76	1.39	1.25
TMP431BDGKT	296-25149-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	8-MSOP	248.25/250		
TMP432ADGST	296-25474-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	10-MSOP	1.93	1.49	1.35
TMP432ADGST	296-25474-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	10-MSOP	275.00/250		
TMP432BDGST	296-25475-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	10-MSOP	1.93	1.49	1.35
TMP432BDGST	296-25475-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	10-MSOP	275.00/250		
TMP441AIDCNT	296-24282-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	2.28	1.76	1.60
TMP441AIDCNT	296-24282-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	325.00/250		
TMP442ADCNT	296-24283-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	2.63	2.03	1.84
TMP442ADCNT	296-24283-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	375.00/250		
TMP442BDCNT	296-24284-1-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	2.63	2.03	1.84
TMP442BDCNT	296-24284-2-ND	±1°C Remote/Local Temp. Sensor* ***NEW!***	SOT-23-8	375.00/250		

TIMERS

TEXAS INSTRUMENTS DigiReel®

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
NA555DR	296-21752-1-ND	Precision Timer	8-SOIC	.66	.47	.40
NA555DR	296-21752-2-ND	Precision Timer	8-SOIC	465.00/2,500		
NA555P	296-21753-5-ND	Precision Timer	8-Dip	.68	.51	.44
NA556N	296-21755-5-ND	Dual Precision Timer	14-Dip	.60	.47	.41
NE555D	296-16792-ND	Precision Timer	8-SOIC	.52	.35	.28
NE555DR	296-6501-1-ND	Precision Timer	8-SOIC	.49	.32	.27
NE555DR	296-6501-2-ND	Precision Timer	8-SOIC	277.50/2,500		
NE555P	296-1411-5-ND	Precision Timer	8-Dip	.44	.33	.28
NE555PSR	296-6502-1-ND	Precision Timer	8-SOP	.54	.36	.29
NE555PSR	296-6502-2-ND	Precision Timer	8-SOP	244.00/2,000		
NE555PW	296-15086-5-ND	Precision Timer	8-TSSOP	.57	.38	.31
NE556D	296-6503-5-ND	Dual Precision Timer	14-SOIC	.57	.42	.36
NE556N	296-6504-5-ND	Dual Precision Timer	14-Dip	.52	.39	.33
NE556NSR	296-13104-1-ND	Dual Precision Timer	14-SOP	.61	.43	.37
NE556NSR	296-13104-2-ND	Dual Precision Timer	14-SOP	342.00/2,000		
SA555D	296-9681-5-ND	Precision Timer	8-SOIC	.57	.38	.31
SA555P	296-9682-5-ND	Precision Timer	8-Dip	.48	.35	.30
SE555D	296-9683-5-ND	Precision Timer	8-SOIC	.54	.40	.35
SE555DG4	296-22062-5-ND	Precision Timer	8-SOIC	.54	.40	.35

TIMERS

TEXAS INSTRUMENTS DigiReel® *(Cont.)*

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SE555P	296-9684-5-ND	Precision Timer	8-Dip	.48	.35	.30
TLC551CD	296-11822-5-ND	CMOS Timer	8-SOIC	1.55	1.25	1.13
TLC551CP	296-10333-5-ND	CMOS Timer	8-Dip	1.55	1.25	1.13
TLC552CD	296-10334-5-ND	CMOS Timer	14-SOIC	3.01	2.43	2.19
TLC552CN	296-10335-5-ND	CMOS Timer	14-Dip	2.60	2.10	1.89
TLC555CD	296-1336-5-ND	LinCMOS™ Timer	8-SOIC	.89	.69	.60
TLC555CDR	296-1336-1-ND	LinCMOS™ Timer	8-SOIC	.81	.63	.56
TLC555CDR	296-1336-2-ND	LinCMOS™ Timer	8-SOIC	670.00/2,500		
TLC555CP	296-1857-5-ND	LinCMOS™ Timer	8-Dip	.74	.58	.50
TLC555ID	296-1337-5-ND	LinCMOS™ Timer	8-SOIC	.96	.75	.65
TLC555IDR	296-1337-1-ND	LinCMOS™ Timer	8-SOIC	.89	.70	.61
TLC555IDR	296-1337-2-ND	LinCMOS™ Timer	8-SOIC	735.88/2,500		
TLC555IP	296-1858-5-ND	LinCMOS™ Timer	8-Dip	.81	.63	.55
TLC555QDR	296-10341-1-ND	LinCMOS™ Timer	8-SOIC	.94	.73	.64
TLC555QDR	296-10341-2-ND	LinCMOS™ Timer	8-SOIC	772.50/2,500		
TLC555QDRQ1	296-22999-1-ND	LinCMOS™ Timer	8-SOIC	.95	.74	.65
TLC555QDRQ1	296-22999-2-ND	LinCMOS™ Timer	8-SOIC	782.50/2,500		
TLC556CD	296-1338-5-ND	Dual CMOS Timer	14-SOIC	1.62	1.30	1.14
TLC556CDR	296-1338-1-ND	Dual CMOS Timer	14-SOIC	1.37	1.08	.98
TLC556CDR	296-1338-2-ND	Dual CMOS Timer	14-SOIC	1260.00/2,500		
TLC556CN	296-1859-5-ND	Dual CMOS Timer	14-Dip	1.26	1.01	.89
TLC556ID	296-10343-5-ND	Dual CMOS Timer	14-SOIC	1.55	1.25	1.13
TLC556IN	296-10344-5-ND	Dual CMOS Timer	14-Dip	1.39	1.11	.98
TLC556MD	296-10345-5-ND	Dual CMOS Timer	14-SOIC	1.55	1.25	1.13

EVALUATION BOARDS

TEXAS INSTRUMENTS

RoHS Compliant Parts Available

T.I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DEM-OPA-MSOP-2A	296-22742-ND	Demo Board for 8-MSOP Dual Op Amps	—	5.10	—	—
DEM-OPA-SO-2A	296-22743-ND	Demo Board for 8-SOIC Dual Op Amps	—	5.10	—	—
DEM-OPA-SO-2B	296-22744-ND	Demo Board for 8-SOIC Dual Op Amps	—	5.10	—	—
DEM-OPA-SO-2C	296-22745-ND	Demo Board for 8-SOIC Dual Op Amps	—	5.10	—	—
DEM-OPA-SO-2D	296-22746-ND	Demo Board for 14-SOIC Dual Op Amps	—	5.10	—	—
DEM-OPA-SOT-2A	296-22747-ND	Demo Board for SOT-23-8 Dual Op Amps	—	5.10	—	—
OPAMPEVM-MSOPTSSOP	296-9625-ND	Universal Eval. Module for MSOP/TSSOP	—	5.10	—	—
OPAMPEVM-PDIP	296-9626-ND	Universal Eval. Module for Dip Package	—	5.10	—	—
OPAMPEVM-SOT23	296-9628-ND	Universal Eval. Module for SOT23 Package	—	5.10	—	—
OPAMPEVM-SOT23SHDN	296-9629-ND	Universal Eval. Module for SOT23 Package	—	5.10	—	—

NEW! NETWORKING SOLUTIONS

VITESSE® DigiReel®

RoHS Compliant

Vitesse Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
VSC3104XVP-01	907-1000-ND	6.5Gbps 4x4 Asynch. Crosspoint Switch	69-BGA	37.00	26.00	20.00
VSC3108XVP-01	907-1001-ND	6.5Gbps 8x8 Asynch. Crosspoint Switch	69-BGA	45.00	36.00	27.00
VSC3303XHV	907-1002-ND	8.5Gbps 4x4 Asynch. Crosspoint Switch	36-FCBGA	28.00	25.00	20.63
VSC3312XYP	907-1003-ND	6.5Gbps 12x12 Asynch. Crosspoint Switch	196-FCBGA	62.50	55.00	43.01
VSC7104XVP-01	907-1004-ND	6.5Gbps Quad Signal Conditioner	69-BGA	32.00	31.00	21.00
VSC7145XRU-30/C	907-1006-ND	Dual Speed 10-Bit Serializer/Deserializer	64-PQFP	28.75	20.70	16.33
VSC7145XRU-31/C	907-1007-ND	Dual Speed 10-Bit Serializer/Deserializer	64-PQFP	28.75	20.70	16.33
VSC7280XVS-03	907-1011-ND	Dual XAUI/XGMII 3.25Gbps Transceiver	448-BGA	70.00	60.00	53.13
VSC7281XVT-03	907-1012-ND	Dual XAUI/Sngl XGMII 3.25Gbps Transceiver	324-BGA	60.00	52.50	48.13
VSC7389XHO	907-1013-ND	16-Port Ethernet Smart Switch	596-BGA	45.50	42.67	—
VSC7390XHO	907-1014-ND	24-Port Ethernet Smart Switch	596-BGA	52.75	49.45	48.75
VSC7395XYV	907-1015-ND	5+1 Port Gigabit Ethernet Switch	364-BGA	20.00	18.75	—
VSC7395XYV-03	907-1016-ND	5+1 Port Gigabit Ethernet Switch	364-BGA	27.00	25.32	—
VSC7398XYU	907-1017-ND	8-Port Gigabit Ethernet Switch	757-BGA	28.25	26.49	—
VSC8115XYA-05-T	907-1018-1-ND	Clock and Data Recovery Unit, Comm. Temp.	20-TSSOP	15.00	13.75	9.75
VSC8115XYA-05-T	907-1018-2-ND	Clock and Data Recovery Unit, Comm. Temp.	20-TSSOP	3125.00/500		
VSC8115XYA-06-T	907-1019-1-ND	Clock and Data Recovery Unit, Ind. Temp.	20-TSSOP	18.75	17.19	12.19
VSC8115XYA-06-T	907-1019-2-ND	Clock and Data Recovery Unit, Ind. Temp.	20-TSSOP	3906.25/500		
VSC8142XVR-03	907-1020-ND	16-Bit Multirate Transceiver	208-BGA	79.98	63.98	55.64
VSC8145XVQ-03	907-1021-ND	4-Bit Multirate Transceiver	208-BGA	87.00	81.25	—
VSC8145XVQ-04	907-1022-ND	4-Bit Multirate Transceiver	208-BGA	78.75	63.00	50.40
VSC8211XVW	907-1023-ND	Single-Port 10/100/1000BASE-T PHY Xcvr.	117-LBGA	11.17	—	10.19
VSC8221XHH	907-1024-ND	Single-Port 10/100/1000BASE-T PHY Xcvr.	100-TFBGA	10.24	—	9.69
VSC8224XHG	907-1025-ND	Quad 10/100/1000BASE-T PHY Transceiver	260-PBGA	27.63	—	27.08
VSC8244XHG	907-1026-ND	Quad 10/100/1000BASE-T PHY Transceiver	260-PBGA	22.38	—	—
VSC8538XHJ	907-1027-ND	Gigabit 10/100/1000BASE-T PHY Ethernet Xcvr.	444-BGA	32.20	31.83	27.30
VSC8601XKN	907-1028-ND	Gigabit 10/100/1000BASE-T PHY Transceiver	64-LQFP	3.83	—	3.44
VSC8634XIC	907-1029-ND	Quad 10/100/1000BASE-T Transceiver	256-PBGA	18.13	—	—
VSC8641XJF	907-1030-ND	Gigabit 10/100/1000BASE-T PHY Ethernet Xcvr.	88-QFN	3.98	3.95	3.54
VSC8641XKO	907-1031-ND	Gigabit 10/100/1000BASE-T PHY Ethernet Xcvr.	100-LQFP	5.12	—	4.43

10/100 ETHERNET

MICREL® Innovation Through Technology™ DigiReel®

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KSZ8001L	576-1508-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-LQFP	4.19	3.35	2.61
KSZ8001LI	576-2107-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-LQFP	4.93	3.95	3.07
KSZ8001S	576-1671-5-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-SSOP	3.33	2.67	2.08
KSZ8001SL	576-2110-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-SSOP	4.19	3.35	2.61
KSZ8041FTL	576-1672-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-TQFP	4.41	3.53	2.75
KSZ8041FTLI	576-3347-ND	3.3V, 10/100BASE-T/TX/FX PHY Xcvr.	48-TQFP	4.75	3.80	2.96
KSZ8041MLL	576-3502-ND	3.3V, 10/100BASE-T/TX MII/RMII/SMII Physical Layer Transceiver ***NEW!***	48-LQFP	2.43	1.94	1.46
KSZ8041NL AM	576-3296-5-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver	32-MLF™	4.59	3.68	2.86
KSZ8041NL TR	576-1645-1-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver	32-MLF	2.27	1.82	1.42
KSZ8041NL TR	576-1645-2-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver	32-MLF	1288.00/1,000		
KSZ8041NLI TR	576-2109-1-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver	32-MLF	3.98	3.19	2.48
KSZ8041NLI TR	576-2109-2-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver	32-MLF	2257.00/1,000		
KSZ8041RNL	576-3503-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver ***NEW!***	32-MLF	1.98	1.58	1.19
KSZ8041TL	576-1619-ND	3.3V, 10/100BASE-T/TX MII/RMII/SMII Physical Layer Transceiver	48-TQFP	3.92	3.14	2.44
KSZ8041TL-EVAL	576-3295-ND	Eval Board for KSZ8041TL	—	165.00	—	—
KSZ8041TLI	576-2971-5-ND	10/100BASE-T/TX Physical Layer Xcvr.	48-TQFP	4.75	3.80	2.96
KSZ8692PB	576-3536-ND	Integrated Networking and Communication Controller ***NEW!***	400-PBGA	26.24	24.49	22.74

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(Continued)

10/100 ETHERNET

(Cont.)

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KSZ8692XPB	576-3537-ND	Integrated Networking and Communication Controller ***NEW!***	400-PBGA	21.71	20.26	18.82
KSZ8695P	576-1509-5-ND	Multi-Port PCI Gateway Solution	289-PBGA	17.31	16.16	15.01
KSZ8695PI	576-2111-ND	Integ. Multi-Port PCI Gateway Solution	289-PBGA	20.13	18.79	17.45
KSZ8695PX	576-1024-ND	Integ. Multi-Port PCI Gateway Solution	289-PBGA	15.65	14.61	13.56
KSZ8721B	576-1026-5-ND	2.5V Low Pwr 10/100 PHY Transceiver	48-SSOP	4.32	3.46	2.69
KSZ8721B TR	576-1026-1-ND	2.5V Low Pwr 10/100 PHY Transceiver	48-SSOP	4.32	3.46	2.69
KSZ8721B TR	576-1026-2-ND	2.5V Low Pwr 10/100 PHY Transceiver	48-SSOP	2448.00/1,000		
KSZ8721BI	576-1027-ND	2.5V Low Pwr 10/100 PHY Transceiver	48-SSOP	4.93	3.95	3.07
KSZ8721BL	576-1028-5-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-LQFP	4.61	3.69	2.87
KSZ8721BL TR	576-1028-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-LQFP	4.61	3.69	2.87
KSZ8721BL TR	576-1028-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-LQFP	2614.00/1,000		
KSZ8721BLI	576-1029-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-LQFP	5.32	4.26	3.60
KSZ8721BT	576-1030-ND	2.5V, 10/100BASE-TX/FX MII Physical Layer Transceiver	48-TQFP	3.62	2.90	2.26
KSZ8721CL	576-1673-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer TXRX	48-LQFP	3.85	3.08	2.40
KSZ8721SL	576-1031-5-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-SSOP	3.85	3.08	2.40
KSZ8721SL TR	576-1031-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-SSOP	3.85	3.08	2.40
KSZ8721SL TR	576-1031-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-SSOP	2180.00/1,000		
KSZ8721SLI	576-1674-5-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver	48-SSOP	5.06	4.05	3.15
KSZ8841-PMQL	576-2117-ND	1-Port Ethernet MAC Controller	128-PQFP	8.18	6.55	5.53
KSZ8841-PMQLI	576-2118-ND	1-Port Ethernet MAC Controller	128-PQFP	8.51	7.67	6.80
KSZ8841-16MBL	576-3075-ND	1-Port Ethernet MAC Controller	100-LFBGA	9.91	8.93	7.92
KSZ8841-16MQL	576-2112-ND	1-Port Ethernet MAC Controller	128-PQFP	9.31	8.39	7.44
KSZ8841-16MVL	576-2113-ND	1-Port Ethernet MAC Controller	128-LQFP	10.96	9.87	8.76
KSZ8841-16MVLI	576-2114-ND	1-Port Ethernet MAC Controller	128-LQFP	12.83	11.55	10.25
KSZ8841-32MQL	576-2115-ND	1-Port Ethernet MAC Controller	128-PQFP	9.20	8.28	7.35
KSZ8841-32MVL	576-2116-ND	1-Port Ethernet MAC Controller	128-LQFP	11.81	10.64	9.43
KSZ8841-32MVLI	576-2983-ND	1-Port Ethernet MAC Controller	128-LQFP	13.73	12.36	10.96
KSZ8842-16MBL	576-3076-ND	2-Port Ethernet MAC Controller	100-LFBGA	10.71	9.65	8.56
KSZ8842-16MBLI	576-3504-ND	2-Port Ethernet Switch ***NEW!***	100-LFBGA	14.46	13.02	11.55
KSZ8842-16MQL	576-1478-5-ND	16-Bit, 2-Port Ethernet Switch	128-PQFP	9.75	8.78	7.79
KSZ8842-16MVL	576-2119-ND	16-Bit, 2-Port Ethernet Switch	128-LQFP	10.68	9.62	8.53
KSZ8842-16MVLI	576-2120-ND	16-Bit, 2-Port Ethernet Switch	128-LQFP	13.26	11.94	10.59
KSZ8842-32MQL	576-1479-ND	32-Bit, 2-Port Ethernet Switch	128-PQFP	10.21	9.20	8.16
KSZ8842-32MVLI	576-3270-ND	2-Port Ethernet Switch	128-LQFP	15.29	13.77	12.21
KSZ8842-PMBL	576-3089-ND	2-Port Ethernet Switch	100-LFBGA	10.71	9.65	8.56
KSZ8842-PMBL AM	576-3348-ND	2-Port Ethernet Switch	100-LFBGA	16.61	15.50	14.40
KSZ8842-PMQL	576-1513-5-ND	2-Port Ethernet Switch	128-PQFP	10.45	9.41	8.34
KSZ8842-PMQLI	576-2121-ND	2-Port Ethernet Switch	128-PQFP	13.04	11.75	10.42
KSZ8851-16MLL	576-3252-ND	1-Port Ethernet MAC/PHY Controller	48-LQFP	5.83	5.25	4.78
KSZ8851-16MLLI	576-3505-ND	1-Port Ethernet MAC/PHY Ctrlr. ***NEW!***	48-LQFP	6.28	5.03	4.24
KSZ8851-16MLL-EVAL	576-3292-ND	Eval Board for KSZ8851-16MLL	—	187.50	—	—
KSZ8851-16MQL	576-3253-ND	1-Port Ethernet MAC/PHY Controller	128-PQFP	5.62	4.50	3.80
KSZ8851-16MQLI	576-3579-ND	1-Port Ethernet MAC/PHY Ctrlr. ***NEW!***	128-PQFP	5.74	5.19	4.61
KSZ8851-32MQL	576-3438-ND	1-Port Ethernet MAC/PHY Ctrlr. ***NEW!***	128-PQFP	5.94	4.76	4.01
KSZ8851SNL TR	576-3299-1-ND	1-Port Ethernet MAC/PHY Controller	32-MLF	4.34	3.48	2.93
KSZ8851SNL TR	576-3299-2-ND	1-Port Ethernet MAC/PHY Controller	32-MLF	2713.00/1,000		
KSZ8851SNL-EVAL	576-3293-ND	Eval Board for KSZ8851SNL	—	150.00	—	—
KSZ8851SNLI TR	576-3506-1-ND	1-Port Ethernet MAC/PHY Ctrlr. ***NEW!***	32-MLF	7.45	6.19	5.62
KSZ8851SNLI TR	576-3506-2-ND	1-Port Ethernet MAC/PHY/Ctrlr. ***NEW!***	32-MLF	3794.00/1,000		
KSZ8862-16MQL-FX	576-3271-ND	2-Port Ethernet Switch	128-PQFP	15.61	14.06	12.47
KSZ8862-32MQL	576-2122-ND	2-Port Ethernet Switch	128-PQFP	26.00	24.27	22.53
KSZ8862-32MQL-FX	576-3272-ND	2-Port Ethernet Switch	128-PQFP	16.63	14.97	13.28
KSZ8863FLL	576-3576-ND	3-Port Ethernet Switch ***NEW!***	48-LQFP	5.42	4.34	3.38
KSZ8863MLL	576-3577-ND	3-Port Ethernet Switch ***NEW!***	48-LQFP	5.42	4.34	3.38
KSZ8863RLL	576-3578-ND	3-Port Ethernet Switch ***NEW!***	48-LQFP	5.42	4.34	3.38
KSZ8873MLL	576-3459-ND	3-Port Ethernet Switch ***NEW!***	64-LQFP	5.48	4.39	3.70
KSZ8873MML	576-3460-ND	3-Port Ethernet Switch ***NEW!***	64-LQFP	6.42	5.14	4.34
KSZ8873RLL	576-3461-ND	3-Port Ethernet Switch ***NEW!***	64-LQFP	5.80	4.64	3.92
KSZ8893FQL-FX	576-3273-ND	3-Port Ethernet Switch	128-PQFP	10.63	9.57	8.49
KSZ8893FQLI-FX	576-3349-ND	3-Port Ethernet Switch	128-PQFP	12.76	11.49	10.19
KSZ8993	576-1032-ND	3-Port 10/100 Integrated Switch	128-PQFP	9.98	8.99	7.97
KSZ8993F	576-1033-ND	Single Chip Fast Ethernet Media Converter	128-PQFP	8.43	7.59	6.73
KSZ8993FL	576-1035-ND	Single Chip Fast Ethernet Media Converter	128-PQFP	9.35	8.42	7.47
KSZ8993M	576-1037-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	8.46	6.77	5.72
KSZ8893MBL	576-3090-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	100-LFBGA	10.13	9.12	8.09
KSZ8893MBLI	576-3575-ND	3-Port Ethernet Switch ***NEW!***	100-LFBGA	12.84	11.57	10.26
KSZ8993MI	576-2124-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	9.86	8.88	7.88
KSZ8993ML	576-2125-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	9.30	7.44	6.28
KSZ8993MLI	576-3350-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	10.35	9.32	8.26
KSZ8893MQL	576-1477-5-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	9.31	8.39	7.44
KSZ8893MQL AM	576-3091-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	13.14	11.84	10.50
KSZ8893MQLI	576-2123-ND	Integrated 3-Port 10/100 Managed Switch with PHYs	128-PQFP	11.58	10.43	9.25
KSZ8995FQ	576-3077-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	9.91	8.93	7.92
KSZ8995FQI	576-3300-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	13.33	12.00	10.64
KSZ8995M	576-1038-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	8.43	7.59	6.73
KSZ8995MA	576-1039-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	9.46	7.57	6.39
KSZ8995MAI	576-2126-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	12.11	10.91	9.67
KSZ8995MI	576-2127-ND	Integ. 5-Port 10/100 Managed Switch	128-PQFP	12.66	11.40	10.11
KSZ8995X	576-1041-ND	Integrated 5-Port 10/100 QoS Switch	128-PQFP	9.52	7.62	6.43
KSZ8995XA	576-1042-ND	Integrated 5-Port 10/100 QoS Switch	128-PQFP	8.78	7.03	5.93
KSZ8997	576-1043-ND	Integrated 8-Port 10/100 Switch	128-PQFP	18.24	17.03	15.81
KSZ8999	576-1044-ND	Integrated 9-Port 10/100 Switch	208-PQFP	19.28	17.99	16.71
KSZ8999I	576-2128-ND	Integrated 9-Port 10/100 Switch	208-PQFP	28.47	26.58	24.68
KSZ9021GQ	576-3396-ND	1-Port 10/100/1000Base-T Gigabit Xcvr	128-PQFP	5.08	4.07	3.43
KSZ9021RL	576-3439-ND	1-Port 10/100/1000Base-T Gigabit Transceiver ***NEW!***	64-ELQFP	5.08	4.07	3.43
KSZ9692PB	576-3538-ND	Integrated Gigabit Networking and Communication Controller ***NEW!***	400-PBGA	29.54	27.57	25.60

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KSZ9692XPB	576-3539-ND	Integrated Gigabit Networking and Communication Controller ***NEW!***	400-PBGA	24.50	22.87	21.23
MIC2981/82YN	576-1158-ND	High Volt. High Curr. Source Driver Array	18-Dip	2.39	1.91	1.49
MIC2981/82YWM	576-1159-ND	High Volt. High Curr. Source Driver Array	18-SOIC	2.39	1.91	1.49

BATTERY CHARGERS

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC79050-4.2YMM	576-2415-ND	Simple Li-Ion Battery Charger	8-MSOP	4.12	3.30	2.57
MIC79050-4.2YS	576-2416-ND	Simple Li-Ion Battery Charger	SOT-223	3.83	3.06	2.38
MIC79110-4.2YML TR	576-2902-1-ND	1.2A, Linear Li-Ion Battery Charger	10-MLF	4.70	3.77	2.93
MIC79110-4.2YML TR	576-2902-2-ND	1.2A, Linear Li-Ion Battery Charger	10-MLF	13065.00/5,000		
MIC79110YML TR	576-1320-1-ND	1.2A, Linear Li-Ion Battery Charger	10-MLF	4.70	3.77	2.93
MIC79110YML TR	576-1320-2-ND	1.2A, Linear Li-Ion Battery Charger	10-MLF	13065.00/5,000		

COMPARATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC833YM5 TR	576-2921-1-ND	Comparator and Ref. with Adj. Hysteresis	SOT-23-5	1.78	1.42	1.07
MIC833YM5 TR	576-2921-2-ND	Comparator and Ref. with Adj. Hysteresis	SOT-23-5	2727.00/3,000		
MIC834YM5 TR	576-2922-1-ND	Comparator with Reference	SOT-23-5	1.78	1.42	1.07
MIC834YM5 TR	576-2922-2-ND	Comparator with Reference	SOT-23-5	2727.00/3,000		
MIC841HYC5 TR	576-2923-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC841HYC5 TR	576-2923-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC841LYC5 TR	576-2924-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC841LYC5 TR	576-2924-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC841NYC5 TR	576-2925-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC841NYC5 TR	576-2925-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC842HYC5 TR	576-2926-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC842HYC5 TR	576-2926-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC842LYC5 TR	576-2927-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC842LYC5 TR	576-2927-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC842NYC5 TR	576-2928-1-ND	Comparator with Reference	SC-70-5	1.26	1.05	.84
MIC842NYC5 TR	576-2928-2-ND	Comparator with Reference	SC-70-5	1638.00/3,000		
MIC845HYC5 TR	576-2929-1-ND	µP Comparator/Battery Monitor	SC-70-5	1.26	1.05	.84
MIC845HYC5 TR	576-2929-2-ND	µP Comparator/Battery Monitor	SC-70-5	1638.00/3,000		
MIC845LYC5 TR	576-2930-1-ND	µP Comparator/Battery Monitor	SC-70-5	1.26	1.05	.84
MIC845LYC5 TR	576-2930-2-ND	µP Comparator/Battery Monitor	SC-70-5	1638.00/3,000		
MIC845NYC5 TR	576-1959-1-ND	µP Comparator/Battery Monitor	SC-70-5	1.26	1.05	.84
MIC845NYC5 TR	576-1959-2-ND	µP Comparator/Battery Monitor	SC-70-5	1638.00/3,000		
MIC6270YM5 TR	576-1315-1-ND	IttyBitty™ Comparator	SOT-23-5	.92	.69	.52
MIC6270YM5 TR	576-1315-2-ND	IttyBitty™ Comparator	SOT-23-5	897.00/3,000		
MIC7211YM5 TR	576-1318-1-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	.96	.72	.54
MIC7211YM5 TR	576-1318-2-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	936.00/3,000		

DISPLAY DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2287-15YML TR	576-1724-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.65	1.32	.99
MIC2287-15YML TR	576-1724-2-ND	1.2MHz PWM White LED Driver	8-MLF	4125.00/5,000		
MIC2287-24YML TR	576-1725-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.65	1.32	.99
MIC2287-24YML TR	576-1725-2-ND	1.2MHz PWM White LED Driver	8-MLF	4125.00/5,000		
MIC2287-34YML TR	576-1726-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.80	1.44	1.08
MIC2287-34YML TR	576-1726-2-ND	1.2MHz PWM White LED Driver	8-MLF	4500.00/5,000		
MIC2287C-15YML TR	576-1727-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.33	1.06	.80
MIC2287C-15YML TR	576-1727-2-ND	1.2MHz PWM White LED Driver	8-MLF	3315.00/5,000		
MIC2287CYD5 TR	576-2656-1-ND	1.2MHz PWM White LED Driver	SOT-23-5	1.47	1.23	.98
MIC2287CYD5 TR	576-2656-2-ND	1.2MHz PWM White LED Driver	SOT-23-5	1911.00/3,000		
MIC2287YD5 TR	576-1728-1-ND	1.2MHz PWM White LED Driver	TSOT-23-5	1.55	1.24	.93
MIC2287YD5 TR	576-1728-2-ND	1.2MHz PWM White LED Driver	TSOT-23-5	2382.00/3,000		
MIC2288YD5 TR	576-1729-1-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	TSOT-23-5	1.38	1.15	.92
MIC2288YD5 TR	576-1729-2-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	TSOT-23-5	1794.00/3,000		
MIC2288YML TR	576-1075-1-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	8-MLF	1.30	1.04	.78
MIC2288YML TR	576-1075-2-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	8-MLF	3250.00/5,000		
MIC2289-15YML TR	576-1730-1-ND	1.2MHz PWM White LED Driver	8-MLF	2.15	1.72	1.29
MIC2289-15YML TR	576-1730-2-ND	1.2MHz PWM White LED Driver	8-MLF	5375.00/5,000		
MIC2289-24YML TR	576-1731-1-ND	1.2MHz PWM White LED Driver	8-MLF	2.15	1.72	1.29
MIC2289-24YML TR	576-1731-2-ND	1.2MHz PWM White LED Driver	8-MLF	5375.00/5,000		
MIC2289-34YML TR	576-1732-1-ND	1.2MHz PWM White LED Driver	8-MLF	2.25	1.80	1.35
MIC2289-34YML TR	576-1732-2-ND	1.2MHz PWM White LED Driver	8-MLF	5625.00/5,000		
MIC2291-15YML TR	576-1733-1-ND	1.2A PWM White LED Photo Flash Driver	8-MLF	2.25	1.80	1.35
MIC2291-15YML TR	576-1733-2-ND	1.2A PWM White LED Photo Flash Driver	8-MLF	5625.00/5,000		
MIC2291-34YML TR	576-1734-1-ND	1.2A PWM White LED Photo Flash Driver	8-MLF	2.38	1.90	1.43
MIC2291-34YML TR	576-1734-2-ND	1.2A PWM White LED Photo Flash Driver	8-MLF	5940.00/5,000		
MIC2291YD5 TR	576-1077-1-ND	1.2A PWM White LED Photo Flash Driver	5-TSOT	2.00	1.60	1.20
MIC2291YD5 TR	576-1077-2-ND	1.2A PWM White LED Photo Flash Driver	5-TSOT	3072.00/3,000		
MIC2292-15YML TR	576-1078-1-ND	1.6MHz High-Freq. PWM White LED Dvr.	8-MLF	2.15	1.72	1.29
MIC2292-15YML TR	576-1078-2-ND	1.6MHz High-Freq. PWM White LED Dvr.	8-MLF	5375.00/5,000		
MIC2292-34YML TR	576-1735-1-ND	1.6MHz High Freq. PWM White LED Dvr.	8-MLF	2.25	1.80	1.35
MIC2292-34YML TR	576-1735-2-ND	1.6MHz High Freq. PWM White LED Dvr.	8-MLF	5625.00/5,000		
MIC2292C-15YML TR	576-3079-1-ND	1.6MHz High Freq. PWM White LED Dvr.	8-MLF	2.05	1.64	1.23
MIC2292C-15YML TR	576-3079-2-ND	1.6MHz High Freq. PWM White LED Dvr.	8-MLF	5125.00/5,000		
MIC2293-15YML TR	576-1079-1-ND	2MHz High Freq. PWM White LED Driver	8-MLF	2.25	1.80	1.35
MIC2293-15YML TR	576-1079-2-ND	2MHz High Freq. PWM White LED Driver	8-MLF	5625.00/5,000		
MIC2293-34YML TR	576-2657-1-ND	2MHz PWM White LED Driver with OVP	8-MLF	2.35	1.88	1.41
MIC2293-34YML TR	576-2657-2-ND	2MHz PWM White LED Driver with OVP	8-MLF	5875.00/5,000		
MIC2293C-34YML TR	576-3080-1-ND	2MHz PWM White LED Driver with OVP	8-MLF	2.15	1.72	1.29
MIC2293C-34YML TR	576-3080-2-ND	2MHz PWM White LED Driver with OVP	8-MLF	5375.00/5,000		
MIC2297-38YML TR	576-1736-1-ND	40V PWM Boost Reg. White LED Driver	10-MLF	2.28	1.82	1.37
MIC2297-38YML TR	576-1736-2-ND	40V PWM Boost Reg. White LED Driver	10-MLF	5690.00/5,000		
MIC2297-42YML TR	576-1440-1-ND	40V PWM Boost Reg. White LED Driver	10-MLF	2.28	1.82	1.37
MIC2297-42YML TR	576-1440-2-ND	40V PWM Boost Reg. White LED Driver	10-MLF	5690.00/5,000		
MIC2298-15YML TR	576-1657-1-ND	7W, 1MHz Boost High Bright WLED Dvr.	12-MLF	3.89	3.12	2.43
MIC2298-15YML TR	576-1657-2-ND	7W, 1MHz Boost High Bright WLED Dvr.	12-MLF	10815.00/5,000		
MIC2298-15YML TR	576-1657-1-ND	7W, 1MHz Boost High Bright WLED Dvr.	12-MLF	3.89	3.12	2.43
MIC2298-15YML TR	576-1657-2-ND	7W, 1MHz Boost High Bright WLED Dvr.	12-MLF	10815.00/5,000		
MIC2299-15YML TR	576-3052-1-ND	2MHz High Bright White LED Driver	12-MLF	4.01	3.21	2.50
MIC2299-15YML TR	576-3052-2-ND	2MHz High Bright White LED Driver	12-MLF	11125.00/5,000		
MIC2841AYMT TR	576-3471-1-ND	4-Channel Linear WLED Driver ***NEW!***	10-TMLF	1.20	1.00	.80
MIC2841AYMT TR	576-3471-2-ND	4-Channel Linear WLED Driver ***NEW!***	10-TMLF	2550.00/5,000		
MIC2842AYMT TR	576-3472-1-ND	4-Channel Linear WLED Driver ***NEW!***	10-TMLF	1.26	1.05	.84

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(Continued)

DISPLAY DRIVERS

(Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2842AYMT TR	576-3472-2-ND	4-Channel Linear WLED Driver ***NEW!***	10-TMLF	2680.00/5,000		
MIC2843AYMT TR	576-3445-1-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	1.41	1.18	.94
MIC2843AYMT TR	576-3445-2-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	2995.00/5,000		
MIC2843YMT TR	576-3507-1-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	1.05	.88	.70
MIC2843YMT TR	576-3507-2-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	2230.00/5,000		
MIC2844AYMT TR	576-3473-1-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	1.44	1.20	.96
MIC2844AYMT TR	576-3473-2-ND	6-Channel Linear WLED Driver ***NEW!***	10-TMLF	3060.00/5,000		
MIC2845A-MFYMT TR	576-3474-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.68	1.34	1.01
MIC2845A-MFYMT TR	576-3474-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4190.00/5,000		
MIC2845A-MGYMT TR	576-3475-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.68	1.34	1.01
MIC2845A-MGYMT TR	576-3475-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4190.00/5,000		
MIC2845A-PPYMT TR	576-3476-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.68	1.34	1.01
MIC2845A-PPYMT TR	576-3476-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4190.00/5,000		
MIC2846A-MFYMT TR	576-3477-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.73	1.38	1.04
MIC2846A-MFYMT TR	576-3477-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4315.00/5,000		
MIC2846A-MGYMT TR	576-3478-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.73	1.38	1.04
MIC2846A-MGYMT TR	576-3478-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4315.00/5,000		
MIC2846A-PGYMT TR	576-3479-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.73	1.38	1.04
MIC2846A-PGYMT TR	576-3479-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4315.00/5,000		
MIC2846A-PPYMT TR	576-3480-1-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	1.73	1.38	1.04
MIC2846A-PPYMT TR	576-3480-2-ND	6-Channel Linear WLED Driver ***NEW!***	14-TMLF	4315.00/5,000		
MIC3230YML TR	576-3401-1-ND	Constant Current, HP LED Driver	12-MLF	3.08	2.47	1.92
MIC3230YML TR	576-3401-2-ND	Constant Current, HP LED Driver	12-MLF	8565.00/5,000		
MIC3230YTSE	576-3402-5-ND	Constant Current, HP LED Driver	16-ETSSOP	3.22	2.58	2.01
MIC3231YML TR	576-3403-1-ND	Constant Current, HP LED Driver	12-MLF	3.22	2.58	2.01
MIC3231YML TR	576-3403-2-ND	Constant Current, HP LED Driver	12-MLF	8940.00/5,000		
MIC3231YTSE	576-3404-5-ND	Constant Current, HP LED Driver	16-ETSSOP	3.33	2.67	2.08
MIC3232YMM	576-3405-5-ND	Constant Current, HP LED Driver	10-MSOP	2.81	2.25	1.75
MIC3287-24YD6 TR	576-1754-1-ND	1.2MHz PWM White LED Driver	TSOT-23-6	1.65	1.32	.99
MIC3287-24YD6 TR	576-1754-2-ND	1.2MHz PWM White LED Driver	TSOT-23-6	2535.00/3,000		
MIC3287-24YML TR	576-1464-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.95	1.56	1.17
MIC3287-24YML TR	576-1464-2-ND	1.2MHz PWM White LED Driver	8-MLF	4875.00/5,000		
MIC3287YD5 TR	576-1755-1-ND	1.2MHz PWM White LED Driver	TSOT-23-5	1.43	1.14	.86
MIC3287YD5 TR	576-1755-2-ND	1.2MHz PWM White LED Driver	TSOT-23-5	2190.00/3,000		
MIC3289-16YD6 TR	576-3001-1-ND	1.2MHz PWM White LED Driver	TSOT-23-6	2.18	1.74	1.31
MIC3289-16YD6 TR	576-3001-2-ND	1.2MHz PWM White LED Driver	TSOT-23-6	3342.00/3,000		
MIC3289-16YML TR	576-2712-1-ND	1.2MHz PWM White LED Driver	8-MLF	2.36	1.89	1.47
MIC3289-16YML TR	576-2712-2-ND	1.2MHz PWM White LED Driver	8-MLF	6565.00/5,000		
MIC3289-24YD6 TR	576-3041-1-ND	1.2MHz PWM White LED Driver	TSOT-23-6	2.18	1.74	1.31
MIC3289-24YD6 TR	576-3041-2-ND	1.2MHz PWM White LED Driver	TSOT-23-6	3342.00/3,000		
MIC3289-24YML TR	576-2713-1-ND	1.2MHz PWM White LED Driver	8-MLF	2.36	1.89	1.47
MIC3289-24YML TR	576-2713-2-ND	1.2MHz PWM White LED Driver	8-MLF	6565.00/5,000		
MIC4826YMM TR	576-1226-1-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	2.18	1.74	1.31
MIC4826YMM TR	576-1226-2-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	2785.00/2,500		
MIC4827YMM	576-1803-5-ND	Low Input Voltage, 180Vpp Output Voltage, EL Driver	8-MSOP	2.43	1.94	1.46
MIC4830YML TR	576-3016-1-ND	Low Noise, 180Vpp Output, EL Driver	8-MLF	2.30	1.84	1.38
MIC4830YML TR	576-3016-2-ND	Low Noise, 180Vpp Output, EL Driver	8-MLF	5750.00/5,000		
MIC4832YML TR	576-3032-1-ND	Low Noise, 220Vpp Output, EL Driver	8-MLF	2.30	1.84	1.38
MIC4832YML TR	576-3032-2-ND	Low Noise, 220Vpp Output, EL Driver	8-MLF	5750.00/5,000		
MIC5400YWM TR	576-1300-1-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	3.53	2.83	2.20
MIC5400YWM TR	576-1300-2-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	2002.00/1,000		
MM5450YN	576-1341-ND	LED Display Driver	40-Dip	4.41	3.53	2.75
MM5450YV TR	576-1342-1-ND	LED Display Driver	44-PLCC	3.96	3.17	2.47
MM5450YV TR	576-1342-2-ND	LED Display Driver	44-PLCC	1144.00/500		
MM5451YN	576-1343-ND	LED Display Driver	40-Dip	4.41	3.53	2.75
MM5451YV	576-2425-ND	LED Display Driver	44-PLCC	3.96	3.17	2.47
MM5451YV TR	576-1344-1-ND	LED Display Driver	44-PLCC	3.96	3.17	2.47
MM5451YV TR	576-1344-2-ND	LED Display Driver	44-PLCC	1144.00/500		

SYSTEM MANAGEMENT ICs

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC74YQS	576-1958-5-ND	2-Wire Serial I/O Expander and Fan Controller	16-QSOP	3.24	2.60	2.02
MIC184YM	576-1676-5-ND	Local/Remote Thermal Supervisor	8-SOIC	2.86	2.29	1.78
MIC184YMM	576-2134-ND	Local/Remote Thermal Supervisor	8-MSOP	3.11	2.49	1.94
MIC280-0YM6 TR	576-2697-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1.17	.98	.78
MIC280-0YM6 TR	576-2697-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1521.00/3,000		
MIC280-1YM6 TR	576-2698-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1.17	.98	.78
MIC280-1YM6 TR	576-2698-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1521.00/3,000		
MIC280-2YM6 TR	576-2699-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1.17	.98	.78
MIC280-2YM6 TR	576-2699-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1521.00/3,000		
MIC280-3YM6 TR	576-2700-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	2.90	2.33	1.81
MIC280-3YM6 TR	576-2700-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	4875.00/3,000		
MIC280-6YM6 TR	576-2703-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	.88	.71	.55
MIC280-6YM6 TR	576-2703-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1473.00/3,000		
MIC281-0YM6 TR	576-2709-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	.88	.70	.53
MIC281-0YM6 TR	576-2709-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1344.00/3,000		
MIC281-1YM6 TR	576-2710-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1.05	.88	.70
MIC281-1YM6 TR	576-2710-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1365.00/3,000		
MIC281-4YM6 TR	576-2711-1-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1.05	.88	.70
MIC281-4YM6 TR	576-2711-2-ND	Prec. IttyBitty™ Thermal Supervisor	SOT-23-6	1365.00/3,000		
MIC284-0YM	576-2203-ND	Two-Zone Thermal Supervisor	8-SOIC	1.75	1.40	1.05
MIC284-0YMM	576-2204-ND	Two-Zone Thermal Supervisor	8-MSOP	1.75	1.40	1.05
MIC284-3YMM	576-2205-ND	Two-Zone Thermal Supervisor	8-MSOP	1.75	1.40	1.05
MIC384-0YM	576-1771-5-ND	Three-Zone Thermal Supervisor	8-SOIC	3.92	3.14	2.44
MIC384-0YMM	576-2284-ND	Three-Zone Thermal Supervisor	8-MSOP	1.65	1.32	.99
MIC384-1YMM	576-2285-ND	Three-Zone Thermal Supervisor	8-MSOP	4.14	3.32	2.58
MIC384-3YMM	576-2286-ND	Three-Zone Thermal Supervisor	8-MSOP	1.65	1.32	.99
MIC502YM	576-1241-ND	Fan Management IC	8-SOIC	2.25	1.80	1.35
MIC502YN	576-1242-ND	Fan Management IC	8-Dip	2.43	1.95	1.52

FANOUT ICs

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SY10EL11VZG	576-1370-ND	3.3V, 5V 1:2 Diff. Fanout Buffer	8-SOIC	2.43	1.95	1.52
SY100EP11UZG	576-1990-5-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-SOIC	3.35	2.69	2.09
SY10EP451LTG	576-1652-5-ND	3.3V ECL 6-Bit Diff. Register	32-TQFP	11.33	10.20	9.05

FANOUT ICs

(Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SY100EL11VZG	576-3518-5-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer ***NEW!***	8-SOIC	2.43	1.95	1.52
SY100EL11VZG TR	576-1349-1-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	2.43	1.95	1.52
SY100EL11VZG TR	576-1349-2-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	1377.00/1,000		
SY100EP11UKG	576-1365-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.35	2.69	2.09
SY100EP11UKG TR	576-1559-1-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.35	2.69	2.09
SY100EP11UKG TR	576-1559-2-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	1900.00/1,000		
SY100EP15VK4G	576-1992-5-ND	3.3V/5V 2.5GHz PECL/ECL 1:4 Fanout Buffer	16-TSSOP	3.83	3.06	2.38
SY100EP451LTG	576-1653-5-ND	3.3V ECL 6-Bit Diff. Register	32-TQFP	11.33	10.20	9.05
SY54011RMG	576-2994-ND	1.2V/1.8V, CML 1:2 Fanout Buffer	16-MLF	8.22	6.58	5.55
SY54020ARMG	576-3496-5-ND	1.2V/1.8V/2.5V CML 1:4 Fanout Buffer ***NEW!***	16-MLF	7.56	6.05	5.11
SY54020RMG	576-3497-5-ND	1.2V/1.8V/2.5V CML 1:4 Fanout Buffer ***NEW!***	16-MLF	7.56	6.05	5.11
SY56011RMG	576-3288-5-ND	1.2V/1.8V/2.5V CML 1:2 Fanout Buffer	16-MLF	8.91	8.03	7.12
SY56020RMG	576-3309-5-ND	1.2V/1.8V/2.5V CML 1:4 Fanout Buffer	16-MLF	10.73	9.66	8.57
SY56216RMG	576-3312-5-ND	4.5GHz, 1.2V/1.8V/2.5V CML Dual Ch. Buffer	16-MLF	13.23	11.91	10.57
SY58011UMG	576-2047-5-ND	1:2 CML Fanout Buffer/Translator	16-MLF	6.92	5.54	4.68
SY58012UMG	576-1533-5-ND	5GHz, 1:2 LVPECL Fanout Buffer/Translator	16-MLF	6.92	5.54	4.68
SY58013UMG	576-2535-ND	1:2 Fanout Buffer/Translator	16-MLF	6.92	5.54	4.68
SY58021UMG	576-1535-5-ND	4GHz, 1:4 LVPECL Fanout Buffer/Translator	16-MLF	9.48	7.59	6.40
SY58022UMG	576-2049-5-ND	1:4 Fanout Buffer/Translator	16-MLF	9.48	7.59	6.40
SY58031UMG	576-1388-ND	Ultra Prec. 1:8 CML Fanout Buffer	32-MLF	10.18	9.17	8.13
SY58032UMG	576-1389-ND	Ultra Precision 1:8 Fanout Buffer	32-MLF	10.18	9.17	8.13
SY58034UMG	576-1391-ND	6GHz, 1:6 CML Fanout Buffer	32-MLF	10.40	9.36	8.30
SY58035UMG	576-1392-ND	4.5GHz, 1:6 LVPECL Fanout Buffer	32-MLF	10.40	9.36	8.30
SY58036UMG	576-1393-ND	6GHz, 1:6, 400mV LVPECL Fanout Buffer	32-MLF	10.40	9.36	8.30
SY58037UMY	576-3231-ND	5Gbps, Ultra Precision 8:1 Mux and 1:2 CML Fanout Buffer	44-MLF	12.84	11.57	10.26
SY58038UMY	576-3232-ND	4.5Gbps, Ultra Precision 8:1 Mux and 1:2 LVPECL Fanout Buffer	44-MLF	12.84	11.57	10.26
SY58039UMY	576-3233-ND	5Gbps, Ultra Precision 8:1 Mux and 1:2 LVPECL Fanout Buffer	44-MLF	12.84	11.57	10.26
SY58606UMG	576-1597-ND	4.25Gbps Precision 1:2, 400mV CML Fanout Buffer with Fail Safe Input	16-MLF	5.28	4.23	3.57
SY58607UMG	576-1598-ND	3.2Gbps Precision 1:2, 800mV LVPECL Fanout Buffer with Fail Safe Input	16-MLF	5.28	4.23	3.57
SY58608UMG	576-2050-5-ND	1:2 LVDS Fanout Buffer	16-MLF	5.28	4.23	3.57
SY89112UMY	576-3235-ND	2.5V/3.3V 1:12 LVPECL Fanout Buffer	44-MLF	8.20	6.56	5.54
SY89113UMY	576-3236-ND	2.5V, 1:12 LVDS Fanout Buffer	44-MLF	8.20	6.56	5.54
SY89200UMG	576-1417-ND	Ultra Precision 1:8 LVDS Fanout	32-MLF	9.66	7.73	6.53
SY89202UMG	576-1537-5-ND	Precision 1:8 LVPECL Fanout Buffer	32-MLF	9.66	7.73	6.53
SY89218UHY	576-1615-ND	2.5V, 1:15 LVDS Fanout Buffer	64-TQFP	11.28	10.16	9.01
SY89221UHY	576-1616-ND	2.5V/3.3V, 1:15 LVPECL Fanout Buffer	64-TQFP	13.39	12.06	10.70
SY89228UMG	576-1650-5-ND	1GHz Precision, 3:5 LVPECL Clock Divider	16-MLF	5.62	4.50	3.80
SY89229UMG	576-1651-5-ND	1GHz Prec., 3:5 LVDS Clock Divider	16-MLF	5.62	4.50	3.80
SY89464UMY	576-3237-ND	Precision LVPECL 1:10 Fanout Buffer	44-MLF	8.20	6.56	5.54
SY89465UMG TR	576-1476-1-ND	Precision LVDS 1:10 Fanout Buffer	44-MLF	8.20	6.56	5.54
SY89465UMY	576-3238-ND	Prec. LVDS 1:10 Fanout Buffer	44-MLF	8.20	6.56	5.54
SY89467UHY	576-2085-ND	Precision LVPECL 1:20 Fanout Buffer	64-TQFP	13.64	12.29	10.90
SY89468UHY	576-2086-ND	Precision LVDS 1:20 Fanout Buffer	64-TQFP	13.64	12.29	10.90
SY89537LMY	576-3239-ND	3.3V Precision LVPECL and LVDS Synthesizer and Fanout Buffer	44-MLF	19.29	18.01	16.72
SY89645LK4G	576-1599-ND	1:4 LVCMOS/LVTTL to LVDS Clock Fanout Buffer/Translator	20-TSSOP	4.52	3.62	2.82
SY89823LHY	576-2090-ND	3.3V, 1:22 Differential HSTL Fanout Buffer/ Translator	64-TQFP	12.41	11.18	9.91
SY89828LHY	576-2091-ND	3.3V, 1:10 Precision LVDS Fanout Buffer/ Translator	64-TQFP	13.39	12.06	10.70
SY89831UMG	576-1431-ND	Ultra Precision 1:4 LVPECL Fanout Buffer/ Translator	16-MLF	4.95	3.96	3.08
SY89832UMG	576-1432-ND	2.5V Ultra Precision 1:4 LVDS Fanout Buffer/ Translator	16-MLF	4.95	3.96	3.08
SY89833ALMG	576-3501-5-ND	3.3V Ultra Precision 1:4 LVDS Fanout Buffer/ Translator ***NEW!***	16-MLF	4.95	3.96	3.08
SY89833LMG	576-1433-ND	3.3V Ultra Precision 1:4 LVDS Fanout Buffer/ Translator	16-MLF	4.95	3.96	3.08
SY89834UMG	576-2093-5-ND	2.5V/3.3V, 1:4 LVTTL/CMOS-to-LVPECL Fanout Buffer/Translator	16-MLF	4.95	3.96	3.08
SY89835UMG TR	576-1506-1-ND	2.5V, 2GHz Ultra-Precision, Diff. 1:2 LVDS Fanout Buffer	8-MLF	4.34	3.48	2.71
SY89835UMG TR	576-1506-2-ND	2.5V, 2GHz Ultra-Precision, Diff. 1:2 LVDS Fanout Buffer	8-MLF	2461.00/1,000		
SY89837UMG	576-2094-5-ND	Precision 1:8 LVPECL Fanout Buffer	32-MLF	8.22	6.58	5.55
SY89838UMG	576-1538-5-ND	Prec. 1:8 LVDS Clock Fanout Buffer	32-MLF	8.22	6.58	5.55
SY89851UMG	576-2098-5-ND	1:2 LP LVPECL Fanout Buffer/ Translator	16-MLF	3.62	2.90	2.26
SY89854UMG	576-2100-5-ND	1:4 LP LVPECL Fanout Buffer/ Translator	16-MLF	3.62	2.90	2.26
SY89856UMG	576-2102-5-ND	1:6 Prec. LP LVPECL Fanout Buffer	32-MLF	7.24	5.80	4.89
SY89858UMG	576-2103-5-ND	1:8 Prec. LP LVPECL Fanout Buffer	32-MLF	7.24	5.80	4.89
SY89859UMY	576-3242-ND	8:1 Prec. LP LVPECL Fanout Buffer	44-MLF	9.35	8.42	7.47
SY89872UMG	576-2104-5-ND	2.5V, Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	6.10	4.88	4.12
SY89875UMG	576-2105-5-ND	2.5V, Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	5.33	4.27	3.32
SY89876LMG	576-2106-5-ND	3.3V, Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	5.62	4.50	3.80
SY89846UMG	576-1617-ND	2.5V/3.3V, 1.5GHz 1:5 LVPECL Fanout Buffer	32-MLF	6.64	5.32	4.49
SY89847UMG	576-1618-ND	2.5V, 1.5GHz 1:5 LVDS Fanout Buffer	32-MLF	6.64	5.32	4.49
SY89871UMG	576-1435-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	6.10	4.88	4.12
SY89873LMG	576-1436-ND	3.3V, 2.0GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	7.24	5.80	4.89
SY89874UMG	576-1437-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	5.33	4.27	3.32
SY89876LMI TR	576-2958-1-ND	3.3V, 2GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	6.46	5.17	4.37
SY89876LMI TR	576-2958-2-ND	3.3V, 2GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	4038.00/1,000		
SY897132LKG	576-3565-5-ND	1.5Gbps Link Replicator ***NEW!***	28-TSSOP	5.56	4.45	3.76

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

HIGH-SIDE LOAD SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2505-1YM	576-1081-ND	Single 2A High-Side Switch	8-SOIC	3.20	2.56	1.99
MIC2505-2YM	576-1082-ND	Single 2A High-Side Switch	8-SOIC	3.20	2.56	1.99
MIC2505YM	576-1083-ND	Single 2A High-Side Switch	8-SOIC	3.20	2.56	1.99
MIC2506YM	576-1084-ND	Single 1A High-Side Switch	8-SOIC	3.69	2.96	2.30
MIC2514YM5 TR	576-1085-1-ND	IttyBitty Integrated High-Side Switch	SOT-23-5	2.39	1.91	1.49
MIC2514YM5 TR	576-1085-2-ND	IttyBitty Integrated High-Side Switch	SOT-23-5	4008.00/3,000		
MIC2544-1YM	576-1737-5-ND	Prog. Current Limit High-Side Switch	8-SOP	2.30	1.84	1.43
MIC2544-1YMM	576-1738-5-ND	Prog. Current Limit High-Side Switch	8-MSOP	2.50	2.00	1.56
MIC2544-2YM	576-2168-ND	Prog. Current Limit High-Side Switch	8-SOP	2.30	1.84	1.43
MIC2544-2YMM	576-1739-5-ND	Prog. Current Limit High-Side Switch	8-MSOP	2.50	2.00	1.56
MIC2545A-1YM	576-1086-ND	Prog. Current Limit High-Side Switch	8-SOP	3.13	2.51	1.95
MIC2545A-1YTS	576-2169-ND	Prog. Current Limit High-Side Switch	14-TSSOP	3.33	2.67	2.08
MIC2545A-2YM	576-1740-5-ND	Prog. Current Limit High-Side Switch	8-SOP	3.13	2.51	1.95
MIC2545A-2YTS	576-2170-ND	Prog. Current Limit High-Side Switch	14-TSSOP	3.33	2.67	2.08
MIC2546-1YM	576-2171-ND	Dual Prog. Current Limit Switch	16-SOP	3.11	2.49	1.94
MIC2546-1YTS	576-2172-ND	Dual Prog. Current Limit Switch	16-TSSOP	3.29	2.63	2.05
MIC2546-2YM	576-2173-ND	Dual Prog. Current Limit Switch	16-SOP	3.11	2.49	1.94
MIC2546-2YTS	576-2174-ND	Dual Prog. Current Limit Switch	16-TSSOP	3.29	2.63	2.05
MIC2547-2YM	576-2175-ND	Dual Prog. Current Limit Switch	16-SOP	3.38	2.70	2.10
MIC2547-2YTS	576-2176-ND	Dual Prog. Current Limit Switch	16-TSSOP	3.56	2.85	2.22
MIC2548-1YM	576-2177-ND	Prog. Current Limit High-Side Switch	8-SOP	2.30	1.84	1.43
MIC2548-1YMM	576-1741-5-ND	Prog. Current Limit High-Side Switch	8-MSOP	2.50	2.00	1.56
MIC2548-2YM	576-2178-ND	Prog. Current Limit High-Side Switch	8-SOP	2.30	1.84	1.43
MIC2548-2YMM	576-2179-ND	Prog. Current Limit High-Side Switch	8-MSOP	2.50	2.00	1.56
MIC2549A-1YM	576-2180-ND	Prog. Current Limit High-Side Switch	8-SOP	3.53	2.83	2.20
MIC94030YM4 TR	576-2936-1-ND	16V, 1A TinyFET™ P-Ch. MOSFET	SOT-143	1.35	1.13	.90
MIC94030YM4 TR	576-2936-2-ND	16V, 1A TinyFET™ P-Ch. MOSFET	SOT-143	1755.00/3,000		
MIC94031YM4 TR	576-1327-1-ND	TinyFET™ P-Channel MOSFET	SOT-143	1.35	1.13	.90
MIC94031YM4 TR	576-1327-2-ND	TinyFET™ P-Channel MOSFET	SOT-143	1755.00/3,000		
MIC94040YFL TR	576-3225-1-ND	3A, High-Side Load Switch	4-MLF	1.29	1.08	.86
MIC94040YFL TR	576-3225-2-ND	3A, High-Side Load Switch	4-MLF	2740.00/5,000		
MIC94041YFL TR	576-3226-1-ND	3A, High-Side Load Switch	4-MLF	1.47	1.23	.98
MIC94041YFL TR	576-3226-2-ND	3A, High-Side Load Switch	4-MLF	3125.00/5,000		
MIC94042YFL TR	576-3227-1-ND	3A, High-Side Load Switch	4-MLF	1.47	1.23	.98
MIC94042YFL TR	576-3227-2-ND	3A, High-Side Load Switch	4-MLF	3125.00/5,000		
MIC94043YFL TR	576-3228-1-ND	3A, High-Side Load Switch	4-MLF	1.50	1.20	.90
MIC94043YFL TR	576-3228-2-ND	3A, High-Side Load Switch	4-MLF	3750.00/5,000		
MIC94050YM4 TR	576-2937-1-ND	6V, 1.8A 4-Terminal SymFET P-Ch. MOSFET	SOT-143	.99	.83	.66
MIC94050YM4 TR	576-2937-2-ND	6V, 1.8A 4-Terminal SymFET P-Ch. MOSFET	SOT-143	1287.00/3,000		
MIC94052YC6 TR	576-2938-1-ND	6V, 2A P-Channel MOSFET	SC-70-6	1.20	1.00	.80
MIC94052YC6 TR	576-2938-2-ND	6V, 2A P-Channel MOSFET	SC-70-6	1560.00/3,000		
MIC94053YC6 TR	576-2939-1-ND	6V, 2A P-Channel MOSFET	SC-70-6	1.23	1.03	.82
MIC94053YC6 TR	576-2939-2-ND	6V, 2A P-Channel MOSFET	SC-70-6	1599.00/3,000		
MIC94060YC6 TR	576-2940-1-ND	Soft Start High-Side Power Switch	SC-70-6	1.32	1.10	.88
MIC94060YC6 TR	576-2940-2-ND	Soft Start High-Side Power Switch	SC-70-6	1716.00/3,000		
MIC94060YMT TR	576-2941-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.17	.98	.78
MIC94060YMT TR	576-2941-2-ND	Soft Start High-Side Power Switch	4-TMLF	2485.00/5,000		
MIC94061YC6 TR	576-2942-1-ND	Soft Start High-Side Power Switch	SC-70-6	1.44	1.20	.96
MIC94061YC6 TR	576-2942-2-ND	Soft Start High-Side Power Switch	SC-70-6	1872.00/3,000		
MIC94061YMT TR	576-2943-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.17	.98	.78
MIC94061YMT TR	576-2943-2-ND	Soft Start High-Side Power Switch	4-TMLF	2485.00/5,000		
MIC94062YC6 TR	576-1328-1-ND	Soft Start High-Side Power Switch	SC-70-6	1.44	1.20	.96
MIC94062YC6 TR	576-1328-2-ND	Soft Start High-Side Power Switch	SC-70-6	1872.00/3,000		
MIC94062YMT TR	576-2944-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.17	.98	.78
MIC94062YMT TR	576-2944-2-ND	Soft Start High-Side Power Switch	4-TMLF	2485.00/5,000		
MIC94063YC6 TR	576-1329-1-ND	Soft Start High-Side Power Switch	SC-70-6	1.30	1.04	.78
MIC94063YC6 TR	576-1329-2-ND	Soft Start High-Side Power Switch	SC-70-6	1998.00/3,000		
MIC94063YMT TR	576-1960-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.17	.98	.78
MIC94063YMT TR	576-1960-2-ND	Soft Start High-Side Power Switch	4-TMLF	2485.00/5,000		
MIC94064YC6 TR	576-3036-1-ND	Soft Start High-Side Power Switch	SC-70-6	1.17	.98	.78
MIC94064YC6 TR	576-3036-2-ND	Soft Start High-Side Power Switch	SC-70-6	1521.00/3,000		
MIC94064YMT TR	576-3071-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.17	.98	.78
MIC94064YMT TR	576-3071-2-ND	Soft Start High-Side Power Switch	4-TMLF	2485.00/5,000		
MIC94065YC6 TR	576-3037-1-ND	Soft Start High-Side Power Switch with Load Discharge	SC-70-6	1.17	.98	.78
MIC94065YC6 TR	576-3037-2-ND	Soft Start High-Side Power Switch with Load Discharge	SC-70-6	1521.00/3,000		
MIC94065YMT TR	576-3035-1-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	1.17	.98	.78
MIC94065YMT TR	576-3035-2-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	2485.00/5,000		
MIC94066YML TR	576-1578-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.78	1.42	1.07
MIC94067YML TR	576-1579-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.78	1.42	1.07
MIC94068YML TR	576-1580-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.78	1.42	1.07
MIC94069YML TR	576-1581-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.78	1.42	1.07
MIC94069YML TR	576-1581-2-ND	Soft Start Dual High-Side Power Switch	8-MLF	4440.00/5,000		
MIC94070YC6 TR	576-3006-1-ND	Fast Turn On High-Side Power Switch	SC70-6	.75	.63	.50
MIC94070YC6 TR	576-3006-2-ND	Fast Turn On High-Side Power Switch	SC70-6	975.00/3,000		
MIC94070YMT TR	576-3585-1-ND	Fast Turn On High-Side Pwr. Switch ***NEW!***	4-TMLF	.84	.70	.56
MIC94070YMT TR	576-3585-2-ND	Fast Turn On High-Side Pwr. Switch ***NEW!***	4-TMLF	1785.00/5,000		
MIC94071YC6 TR	576-3042-1-ND	Fast Turn On High-Side Power Switch	SC70-6	.75	.63	.50
MIC94071YC6 TR	576-3042-2-ND	Fast Turn On High-Side Power Switch	SC70-6	975.00/3,000		
MIC94071YMT TR	576-3046-1-ND	Fast Turn On High-Side Power Switch	4-TMLF	.93	.78	.62
MIC94071YMT TR	576-3046-2-ND	Fast Turn On High-Side Power Switch	4-TMLF	1975.00/5,000		
MIC94072YC6 TR	576-3580-1-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	.81	.68	.54
MIC94072YC6 TR	576-3580-2-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	1053.00/3,000		
MIC94072YMT TR	576-2982-1-ND	Soft Start High-Side Power Switch	4-TMLF	1.05	.88	.70
MIC94072YMT TR	576-2982-2-ND	Soft Start High-Side Power Switch	4-TMLF	2230.00/5,000		
MIC94073YC6 TR	576-3014-1-ND	Soft Start High-Side Power Switch	SC70-6	.99	.83	.66
MIC94073YC6 TR	576-3014-2-ND	Soft Start High-Side Power Switch	SC70-6	1287.00/3,000		
MIC94073YMT TR	576-3586-1-ND	Soft Start High-Side Power Switch ***NEW!***	4-TMLF	1.11	.93	.74
MIC94073YMT TR	576-3586-2-ND	Soft Start High-Side Power Switch ***NEW!***	4-TMLF	2360.00/5,000		
MIC94080YFT TR	576-3340-1-ND	Fast Turn On High-Side Power Switch	4-TMLF	.78	.65	.52
MIC94080YFT TR	576-3340-2-ND	Fast Turn On High-Side Power Switch	4-TMLF	1660.00/5,000		
MIC94081YFT TR	576-3341-1-ND	Fast Turn On High-Side Power Switch with Load Discharge	4-TMLF	.87	.73	.58
MIC94081YFT TR	576-3341-2-ND	Fast Turn On High-Side Power Switch with Load Discharge	4-TMLF	1850.00/5,000		
MIC94082YFT TR	576-3342-1-ND	Soft Start High-Side Power Switch	4-TMLF	.87	.73	.58
MIC94082YFT TR	576-3342-2-ND	Soft Start High-Side Power Switch	4-TMLF	1850.00/5,000		
MIC94083YFT TR	576-3343-1-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	.99	.83	.66
MIC94083YFT TR	576-3343-2-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	2105.00/5,000		
MIC94084YFT TR	576-3344-1-ND	Soft Start High-Side Power Switch	4-TMLF	.87	.73	.58
MIC94084YFT TR	576-3344-2-ND	Soft Start High-Side Power Switch	4-TMLF	1850.00/5,000		

HIGH-SIDE LOAD SWITCHES

(Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC94085YFT TR	576-3345-1-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	.99	.83	.66
MIC94085YFT TR	576-3345-2-ND	Soft Start High-Side Power Switch with Load Discharge	4-TMLF	2105.00/5,000		
MIC94090YC6 TR	576-3484-1-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On ***NEW!***	SC-70-6	.92	.69	.52
MIC94090YC6 TR	576-3484-2-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On ***NEW!***	SC-70-6	897.00/3,000		
MIC94090YMT TR	576-3485-1-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On ***NEW!***	4-TMLF	.75	.63	.50
MIC94090YMT TR	576-3485-2-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On ***NEW!***	4-TMLF	1595.00/5,000		
MIC94091YC6 TR	576-3486-1-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On, Load Discharge ***NEW!***	SC-70-6	.92	.69	.52
MIC94091YC6 TR	576-3486-2-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On, Load Discharge ***NEW!***	SC-70-6	897.00/3,000		
MIC94091YMT TR	576-3487-1-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On, Load Discharge ***NEW!***	4-TMLF	.81	.68	.54
MIC94091YMT TR	576-3487-2-ND	1.7V ~ 5.5V, 1.2A, Fast Turn On, Load Discharge ***NEW!***	4-TMLF	1720.00/5,000		
MIC94092YC6 TR	576-3488-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	SC-70-6	.75	.63	.50
MIC94092YC6 TR	576-3488-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	SC-70-6	975.00/3,000		
MIC94092YMT TR	576-3489-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	4-TMLF	.87	.73	.58
MIC94092YMT TR	576-3489-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	4-TMLF	1850.00/5,000		
MIC94093YC6 TR	576-3490-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	SC-70-6	.93	.78	.62
MIC94093YC6 TR	576-3490-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	SC-70-6	1209.00/3,000		
MIC94093YMT TR	576-3491-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	4-TMLF	.99	.83	.66
MIC94093YMT TR	576-3491-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	4-TMLF	2105.00/5,000		
MIC94094YC6 TR	576-3492-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	SC-70-6	.75	.63	.50
MIC94094YC6 TR	576-3492-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	SC-70-6	975.00/3,000		
MIC94094YMT TR	576-3493-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	4-TMLF	.87	.73	.58
MIC94094YMT TR	576-3493-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start ***NEW!***	4-TMLF	1850.00/5,000		
MIC94095YC6 TR	576-3494-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	SC-70-6	.93	.78	.62
MIC94095YC6 TR	576-3494-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	SC-70-6	1209.00/3,000		
MIC94095YMT TR	576-3495-1-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	4-TMLF	.99	.83	.66
MIC94095YMT TR	576-3495-2-ND	1.7V ~ 5.5V, 1.2A, Soft Start, Load Discharge ***NEW!***	4-TMLF	2105.00/5,000		

HOT-SWAP CONTROLLERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2085-JYQS	576-2148-ND	Single-Channel Hot-Swap Controller	16-QSOP	7.04	5.64	4.76
MIC2086-JYQS	576-2149-ND	Single-Channel Hot-Swap Controller	20-QSOP	7.94	6.36	5.36
MIC2310-1ZTS	576-3108-5-ND	Single-Channel Hot-Swap Controller	24-TSSOP	5.62	4.50	3.80
MIC2310-2ZTS	576-3109-5-ND	Single-Channel Hot-Swap Controller	24-TSSOP	5.62	4.50	3.80
MIC2341-2YTQ	576-2995-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	9.48	7.59	6.40
MIC2341R-2YTQ	576-2987-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	9.48	7.59	6.40
MIC2342-2YTQ	576-2993-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	9.48	7.59	6.40
MIC2342R-2YTQ	576-2996-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	9.48	7.59	6.40
MIC2580A-1.0YTS	576-1092-ND	Hot-Swap PCI Power Controller	24-TSSOP	7.52	6.02	5.08
MIC2582-JYM	576-2194-ND	Single-Channel Hot-Swap Controller	8-SOIC	5.40	4.32	3.36
MIC2582-JYM TR	576-1093-1-ND	Single-Channel Hot-Swap Controller	8-SOIC	5.40	4.32	3.36
MIC2583-JYQS	576-1743-5-ND	Single-Channel Hot-Swap Controller	16-QSOP	5.64	4.52	3.81
MIC2583R-JYQS	576-1744-5-ND	Single-Channel Hot-Swap Controller	16-QSOP	5.64	4.52	3.81
MIC2584-JYTS	576-2195-ND	Dual-Ch. Hot-Swap Controller/ Sequencer	16-TSSOP	9.20	7.36	6.21
MIC2585-1JBTS TR	576-1496-1-ND	Dual-Ch. Hot-Swap Controller/ Sequencer	24-TSSOP	8.32	6.66	5.62
MIC2585-1JYTS	576-2196-ND	Dual-Ch. Hot-Swap Controller/ Sequencer	24-TSSOP	9.62	7.70	6.50
MIC2586-1YM	576-2197-ND	Single-Ch., Positive High Volt. Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2586-2YM	576-1094-ND	Single-Channel, Positive High Voltage Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2586R-1YM	576-1095-ND	Single-Channel, Positive High Voltage Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2586R-2YM	576-2198-ND	Single-Channel, Positive High Voltage Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2587-1YM	576-1096-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2587-2YM	576-2199-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2587R-1YM	576-1097-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2587R-2YM	576-2200-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2588-1YM TR	576-1481-1-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	8-SOIC	4.48	3.59	2.79
MIC2588-1YM TR	576-1481-2-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	8-SOIC	6267.50/2,500		
MIC2589R-1YM TR	576-1485-1-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	14-SOIC	6.34	5.08	4.28
MIC2590B-2YTQ	576-2201-ND	Dual-Slot PCI Hot-Plug Controller	48-TQFP	17.09	15.95	14.81
MIC2591B-2YTQ	576-1098-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	20.22	18.88	17.53
MIC2592B-2YTQ	576-1099-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	18.66	17.42	16.18
MIC2593-2YTQ	576-1100-ND	Dual-Slot PCI Hot-Plug Controller	48-TQFP	15.33	13.80	12.24

POWER MANAGEMENT ICs

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2800-D24MYML TR	576-2695-1-ND	Digital Power Management IC	16-MLF	5.31	4.25	3.31
MIC2800-D24MYML TR	576-2695-2-ND	Digital Power Management IC	16-MLF	14750.00/5,000		
MIC2800-GFMYML TR	576-1745-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	5.31	4.25	3.31
MIC2800-GFMYML TR	576-1745-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	14750.00/5,000		
MIC2800-G4SYML TR	576-2696-1-ND	Digital Power Management IC	16-MLF	5.31	4.25	3.31
MIC2800-G4SYML TR	576-2696-2-ND	Digital Power Management IC	16-MLF	14750.00/5,000		
MIC2800-G4MYML TR	568-1500-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	.58	.41	.35
MIC2800-G4MYML TR	568-1500-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	760.00/5,000		
MIC2807-MMYML TR	576-1746-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	17-MLF	4.29	3.51	3.15

POWER MANAGEMENT ICs (Cont.)

Digi-Reel®

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2807-MMYML TR	576-1746-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	17-MLF	9115.00/5,000		
MIC2807-NNYML TR	576-2704-1-ND	RF PA Power Management IC	17-MLF	4.29	3.51	3.15
MIC2807-NNYML TR	576-2704-2-ND	RF PA Power Management IC	17-MLF	9115.00/5,000		
MIC2810-4GKYML TR	576-2705-1-ND	Digital Power Management IC	16-MLF	5.00	4.00	3.11
MIC2810-4GKYML TR	576-2705-2-ND	Digital Power Management IC	16-MLF	13875.00/5,000		
MIC2810-4GMYML TR	576-2706-1-ND	Digital Power Management IC	16-MLF	5.00	4.00	3.11
MIC2810-4GMYML TR	576-2706-2-ND	Digital Power Management IC	16-MLF	13875.00/5,000		
MIC2810-4GPYML TR	576-1748-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	5.00	4.00	3.11
MIC2810-4GPYML TR	576-1748-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	13875.00/5,000		
MIC2810-4GSYML TR	576-2707-1-ND	Digital Power Management IC	16-MLF	5.00	4.00	3.11
MIC2810-4GSYML TR	576-2707-2-ND	Digital Power Management IC	16-MLF	13875.00/5,000		
MIC2810-4LSYML TR	576-2708-1-ND	Digital Power Management IC	16-MLF	5.00	4.00	3.11
MIC2810-4LSYML TR	576-2708-2-ND	Digital Power Management IC	16-MLF	13875.00/5,000		
MIC2810-4MSYML TR	576-1749-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	5.00	4.00	3.11
MIC2810-4MSYML TR	576-1749-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	13875.00/5,000		
MIC2810-44MYML TR	576-1747-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	5.00	4.00	3.11
MIC2810-44MYML TR	576-1747-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	13875.00/5,000		
MIC2811-4GJLYML TR	576-3081-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	3.44	2.76	2.15
MIC2811-4GJLYML TR	576-3081-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	9565.00/5,000		
MIC2811-4GMSYML TR	576-3082-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	3.44	2.76	2.15
MIC2811-4GMSYML TR	576-3082-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	9565.00/5,000		
MIC2821-4GJLYML TR	576-3083-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	3.44	2.76	2.15
MIC2821-4GJLYML TR	576-3083-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	9565.00/5,000		
MIC2821-4GMSYML TR	576-3084-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	3.44	2.76	2.15
MIC2821-4GMSYML TR	576-3084-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	9565.00/5,000		
MIC2826-A0YMT TR	576-3529-1-ND	Quad Output Programmable Power Management IC ***NEW!***	14-TMLF	2.68	2.15	1.67
MIC2826-A0YMT TR	576-3529-2-ND	Quad Output Programmable Power Management IC ***NEW!***	14-TMLF	7440.00/5,000		
MIC2826-D9YMT TR	576-3530-1-ND	Quad Output Programmable Power Management IC ***NEW!***	14-TMLF	2.68	2.15	1.67
MIC2826-D9YMT TR	576-3530-2-ND	Quad Output Programmable Power Management IC ***NEW!***	14-TMLF	7440.00/5,000		
MIC2827-B2YMT TR	576-3531-1-ND	Triple Output Programmable Power Management IC ***NEW!***	14-TMLF	2.36	1.89	1.47
MIC2827-B2YMT TR	576-3531-2-ND	Triple Output Programmable Power Management IC ***NEW!***	14-TMLF	6565.00/5,000		

INTEGRATED CIRCUITS

Digi-Reel®

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC3001GML	576-1753-5-ND	FOM Management IC	24-MLF	6.76	5.41	4.57
MIC3002GML	576-2975-5-ND	FOM Management IC	24-MLF	8.70	6.96	5.88
MIC3003GML	576-3562-5-ND	FOM Management IC ***NEW!***	24-MLF	8.52	6.82	5.76
MIC3808YM	576-1769-5-ND	Push-Pull PWM Controller	8-SOIC	2.25	1.80	1.35
MIC3809YM	576-1770-5-ND	Push-Pull PWM Controller	8-SOIC	2.25	1.80	1.35
MIC3809YMM	576-2281-ND	Push-Pull PWM Controller	8-MSOP	2.43	1.94	1.46
MIC3838YMM	576-2282-ND	Flexible Push-Pull PWM Controller	10-MSOP	2.52	2.02	1.57
MIC3839YMM	576-2283-ND	Flexible Push-Pull PWM Controller	10-MSOP	2.52	2.02	1.57
MIC4830YMM	576-2976-5-ND	Low Noise 180Vp-p EL Driver	8-MSOP	2.23	1.78	1.34
MIC4832YMM	576-2977-5-ND	Low Noise 220Vp-p EL Driver	8-MSOP	2.23	1.78	1.34
MIC4833YML TR	576-3304-1-ND	Low Noise 220Vp-p EL Driver	12-MLF	2.88	2.31	1.80
MIC4833YML TR	576-3304-2-ND	Low Noise 220Vp-p EL Driver	12-MLF	8000.00/5,000		
MIC4834YML TR	576-3305-1-ND	Low Noise 220Vp-p EL Driver with Fixed EL Frequency	10-MLF	2.81	2.25	1.75
MIC4834YML TR	576-3305-2-ND	Low Noise 220Vp-p EL Driver with Fixed EL Frequency	10-MLF	7815.00/5,000		
MIC4834YMM	576-3306-5-ND	Low Noise 220Vp-p EL Driver with Fixed EL Frequency	10-MSOP	2.70	2.16	1.68
MIC9130YM	576-2417-ND	High Voltage, HS DC-DC Controller	16-SOIC	5.18	4.14	3.22
MIC9130YQS	576-2418-ND	High Voltage, HS DC-DC Controller	16-QSOP	5.02	4.02	3.39
MIC9131YM	576-2419-ND	High Voltage, HS DC-DC Controller	16-SOIC	5.02	4.02	3.39

HIGH BAND-WIDTH ICs

Digi-Reel®

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SY10E016JY	576-2482-ND	8-Bit Sync. Binary Upcounter	28-PLCC	7.04	5.64	4.76
SY10E101JY	576-2483-ND	Quad 4-Input OR/NOR Gate	28-PLCC	5.40	4.32	3.65
SY10E104JY	576-2484-ND	Quint 2-Input AND/NAND Gate	28-PLCC	5.40	4.32	3.65
SY10E107JZ	576-2485-ND	Quint 2-Input XOR/XNOR Gate	28-PLCC	5.40	4.32	3.65
SY10E111AEJY	576-2486-ND	1:9 Differential Clock Driver	28-PLCC	5.49	4.40	3.42
SY10E111AJY	576-2015-5-ND	1:9 Differential Clock Driver	28-PLCC	5.49	4.40	3.42
SY10E111JY	576-2487-ND	1:9 Differential Clock Driver	28-PLCC	6.64	5.32	4.49
SY10E111LJZ	576-2962-5-ND	1:9 Differential Clock Driver	28-PLCC	5.49	4.40	3.42
SY10E111LEJZ	576-2963-5-ND	1:9 Differential Clock Driver	28-PLCC	5.49	4.40	3.42
SY10E112JY	576-2488-ND	Quad ECL Driver	28-PLCC	5.40	4.32	3.65
SY10E116JY	576-2489-ND	Quint Diff. Line Receiver	28-PLCC	5.96	4.77	4.03
SY10E122JY	576-2490-ND	9-Bit Buffer	28-PLCC	5.96	4.77	4.03
SY10E131JY	576-2016-5-ND	4-Bit D Flip-Flop	28-PLCC	5.96	4.77	4.03
SY10E137JZ	576-2491-ND	8-Bit Ripple Counter	28-PLCC	5.96	4.77	4.03
SY10E141JY	576-2017-5-ND	8-Bit Shift Register	28-PLCC	5.96	4.77	4.03
SY10E141JZ	576-2492-ND	8-Bit Shift Register	28-PLCC	5.96	4.77	4.03
SY10E142JY	576-2493-ND	9-Bit Shift Register	28-PLCC	5.96	4.77	4.03
SY10E143JZ	576-2018-5-ND	9-Bit Hold Register	28-PLCC	5.96	4.77	4.03
SY10E150JZ	576-3557-5-ND	6-Bit D Latch ***NEW!***	28-PLCC	5.96	4.77	4.03
SY10E151JY	576-2494-ND	6-Bit D Register	28-PLCC	5.96	4.77	4.03
SY10E154JZ	576-3558-5-ND	5-Bit 2:1 Mux-Latch ***NEW!***	28-PLCC	5.96	4.77	4.03
SY10E157JY	576-2495-ND	2:1 Quad Multiplexer	28-PLCC	5.96	4.77	4.03
SY10E160JZ	576-2496-ND	12-Bit Parity Generator/Checker	28-PLCC	5.96	4.77	4.03
SY10E163JZ	576-2497-ND	8:1 2-Bit Multiplexer	28-PLCC	5.96	4.77	4.03
SY10E164JZ	576-2498-ND	16:1 Multiplexer	28-PLCC	7.32	5.86	4.95
SY10E167JZ	576-2500-ND	6-Bit 2:1 Mux-Register	28-PLCC	6.50	5.20	4.39
SY10E195JZ	576-2501-ND	Programmable Delay Chip	28-PLCC	6.76	5.41	4.57
SY10E451JY	576-2019-5-ND	6-Bit D Register	28-PLCC	8.12	6.50	5.49
SY10E457JZ	576-2020-5-ND	Triple Diff. 2:1 Multiplexer	28-PLCC	8.12	6.50	5.49
SY10EL01ZG	576-2502-ND	4-Input OR/NOR Gate	8-SOIC	3.04	2.43	1.89
SY10EL07ZG	576-2503-ND	2-Input XOR/XNOR Gate	8-SOIC	3.04	2.43	1.89
SY10EL12ZG	576-2504-ND	Low-Impedance Driver	8-SOIC	2.75	2.20	1.71
SY10EL15ZG	576-1371-ND	1:4 Clock Distribution	16-SOIC	3.35	2.69	2.09
SY10EL16VAZG	576-2505-ND	5V, 3.3V Differential Receiver	8-SOIC	3.24	2.60	2.02
SY10EL16VBKG	576-3568-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-MSOP	3.24	2.60	2.02
SY10EL16VBZG	576-2506-ND	5V, 3.3V Differential Receiver	8-SOIC	3.24	2.60	2.02
SY10EL16VCKG	576-2022-5-ND	5V, 3.3V Differential Receiver	8-MSOP	3.24	2.60	2.02
SY10EL16VCZG	576-3564-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-SOIC	3.24	2.60	2.02
SY10EL16VDKG	576-2023-5-ND	5V, 3.3V Differential Receiver	10-MSOP	4.14	3.32	2.58
SY10EL16VDZG	576-3569-5-ND	5V, 3.3V Differential Receiver ***NEW!***	16-SOIC	3.24	2.60	2.02
SY10EL16VEKG	576-3570-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-MSOP	3.24	2.60	2.02
SY10EL16VEZG	576-3571-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-SOIC	3.24	2.60	2.02
SY10EL16VFKG	576-3572-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-MSOP	3.24	2.60	2.02
SY10EL16VFZG	576-3573-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-SOIC	3.24	2.60	2.02
SY10EL16VKG	576-2024-5-ND	5V, 3.3V Differential Receiver	8-MSOP	2.30	1.84	1.43
SY10EL16VZG	576-1372-ND	5V, 3.3V Differential Receiver	8-SOIC	2.30	1.84	1.43
SY10EL31ZG	576-2025-5-ND	D Flip-Flop with Set and Reset	8-SOIC	3.96	3.17	2.47
SY10EL32VZG	576-2026-5-ND	5V/3.3V, ÷2-Divider	8-SOIC	3.29	2.63	2.05
SY10EL33LZG	576-2507-ND	5V/3.3V, ÷4-Divider	8-SOIC	3.29	2.63	2.05
SY10EL33ZG	576-2508-ND	5V/3.3V, ÷4-Divider	8-SOIC	3.29	2.63	2.05
SY10EL34LZG	576-2027-5-ND	5V/3.3V, ÷2, ÷4, ÷8 Clock Generation Chip	16-SOIC	5.16	4.13	3.49
SY10EL34ZG	576-2509-ND	5V/3.3V, ÷2, ÷4, ÷8 Clock Generation Chip	16-SOIC	5.16	4.13	3.49
SY10EL51ZG	576-2510-ND	Diff. Clock D Flip-Flop	8-SOIC	3.65	2.92	2.27
SY10EL57ZG	576-2028-5-ND	4:1 Differential Multiplexer	16-SOIC	3.83	3.06	2.38
SY10EL58ZG	576-2029-5-ND	2:1 Multiplexer	8-SOIC	3.04	2.43	1.89
SY10EL89ZG	576-2030-5-ND	Coaxial Cable Driver	8-SOIC	5.56	4.45	3.76
SY10EL1189ZG	576-2021-5-ND	Coaxial Cable Driver and Loop Circuit	16-SOIC	7.56	6.05	5.11
SY10ELT20VZG	576-2511-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT21LZG	576-2512-ND	3.3V, Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT21ZG	576-2513-ND	Differential PECL-to-TTL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT22LZG	576-2514-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT22ZG	576-1373-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT23LZG	576-2031-5-ND	Dual Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT23ZG	576-1374-ND	Dual Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.48	1.98	1.54
SY10ELT28KG	576-2032-5-ND	5V TTL-to-Diff. PECL Translator	8-MSOP	3.29	2.63	2.05
SY10EP01VKG	576-2033-5-ND	5V/3.3V, 4 Input OR/NOR	8-MSOP	4.28	3.42	2.66
SY10EP01VZG	576-2034-5-ND	5V/3.3V, 4 Input OR/NOR	8-SOIC	4.28	3.42	2.66
SY10EP05VKG	576-2035-5-ND	5V/3.3V Diff. AND/NAND	8-MSOP	4.28	3.42	2.66
SY10EP05VZG	576-2036-5-ND	5V/3.3V Diff. AND/NAND	8-SOIC	4.28	3.42	2.66
SY10EP08VKG	576-2515-ND	5V/3.3V Diff. 2-Input XOR/XNOR Gate	8-MSOP	4.28	3.42	2.66
SY10EP08VZG	576-2037-5-ND	5V/3.3V Diff. 2-Input XOR/XNOR Gate	8-SOIC	4.28	3.42	2.66
SY10EP11UKG	576-2038-5-ND	2.5V/3.3V/5V 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.35	2.69	2.09
SY10EP11UZG	576-2516-ND	2.5V/3.3V/5V 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-SOIC	3.35	2.69	2.09
SY10EP16UKG	576-3434-5-ND	2.5V/3.3V High Speed ECL Diff. Rcvr./Dvr.*	8-MSOP	5.18	4.15	3.50
SY10EP16UMG TR	576-3435-1-ND	2.5V/3.3V High Speed ECL Diff. Rcvr./Dvr.*	8-MLF	5.18	4.15	3.50
SY10EP16UMG TR	576-3435-2-ND	2.5V/3.3V High Speed ECL Diff. Rcvr./Dvr.*	8-MLF	3237.50/1,000		
SY10EP16UZG	576-3436-5-ND	2.5V/3.3V High Speed ECL Diff. Rcvr./Dvr.*	8-SOIC	5.18	4.15	3.50
SY10EP16VKG	576-2039-5-ND	5V/3.3V, High Speed Differential Receiver	8-MSOP	5.18	4.15	3.50
SY10EP16VZG	576-2517-ND	5V/3.3V, High Speed Differential Receiver	8-SOIC	5.18	4.15	3.50
SY10EP31VKG	576-2518-ND	5V/3.3V, 3GHz PECL/LVPECL D Flip-Flop	8-MSOP	4.28	3.42	2.66
SY10EP33VZG	576-2519-ND	5V/3.3V, 4GHz, ÷4 PECL/LVPECL Divider	8-SOIC	3.83	3.06	2.38
SY10EP51VKG	576-2040-5-ND	5V/3.3V D F/F with Reset and Diff. Clock	8-MSOP	3.65	2.92	2.27
SY10EP51VMG TR	576-3525-1-ND	5V/3.3V D F/F with Reset and Diff. Clock ***NEW!***	8-MLF	3.65	2.92	2.27
SY10EP51VMG TR	576-3525-2-ND	5V/3.3V D F/F with Reset and Diff. Clock ***NEW!***	8-MLF	2066.00/1,000		
SY10EP52VKG	576-2520-ND	5V/3.3V Diff. Data and Clock D F/F	8-MSOP	3.83	3.06	2.38
SY10EP52VZG	576-2041-5-ND	5V/3.3V Diff. Data and Clock D F/F	8-SOIC	3.83	3.06	2.38
SY10EP58VZG	576-2521-ND	3.3V/5V 3GHz PECL/ECL 2:1 Mux.	8-SOIC	3.83	3.06	2.38
SY10EP89VKG	576-2042-5-ND	5V/3.3V 3GHz Coaxial Cable Driver	8-MSOP	4.73	3.78	2.94
SY10EP89VZG	576-2522-ND	5V/3.3V 3GHz Coaxial Cable Driver	8-SOIC	4.73	3.78	2.94
SY10EPT20VKG	576-2523-ND	5V/3.3V LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MSOP	2.59	2.07	1.61
SY10EPT20VZG	576-2043-5-ND	5V/3.3V, LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-SOIC	2.59	2.07	1.61
SY10EPT28LKG	576-2524-ND	3V LVTTL-to-Diff. LVPECL and Diff. LVPECL-to- LVTTL Translator	8-MSOP	3.04	2.43	1.89
SY10EPT28LZG	576-2525-ND	3V LVTTL-to-Diff. LVPECL and Diff. LVPECL-to- LVTTL Translator	8-SOIC	3.04	2.43	1.89
SY10H350JZ	576-2526-ND	PECL-to-TTL Translator	20-PLCC	9.95	8.96	7.95
SY10H601JZ	576-2044-5-ND	9-Bit, ECL-to-TTL Translator	28-PLCC	9.95	8.96	7.95
SY10H606JZ	576-2527-ND	Registered Hex TTL-to-PECL	28-PLCC	9.95	8.96	7.95
SY10H641JZ	576-2528-ND	1:9 Single Supply PECL- to-TTL Translator	28-PLCC	8.12	6.50	5.49
SY10H646LJZ	576-2529-ND	1:8 3.3V Single Supply Octal PECL/TTL-to-TTL Translator	28-PLCC	8.12	6.50	5.49
SY10H841ZH	576-2530-ND	1:4 Single Supply Quad PECL-to-TTL Translator	16-SOIC	8.12	6.50	5.49
SY10H842LZH	576-2531-ND	1:4, 3.3V Single Supply Quad PECL-to-TTL Translator	16-SOIC	8.12	6.50	5.49
SY10H842ZH	576-2532-ND	1:4, 3.3V Single Supply Quad PECL-to-TTL Translator	16-SOIC	8.12	6.50	5.49
SY100E016JY	576-2426-ND	8-Bit Sync. Binary Upcounter	28-PLCC	7.04	5.64	4.76
SY100E101JY	576-2427-ND	Quad 4-Input OR/NOR Gate	28-PLCC	5.40	4.32	3.65
SY100E104JY	576-1345-ND	Quint 2-Input AND/NAND Gate	28-PLCC	5.40	4.32	3.65
SY100E107JZ	576-2428-ND	Quint 2-Input XOR/XNOR Gate	28-PLCC	5.40	4.32	3.65
SY100E111AJY	576-1967-5-ND	1:9 Diff. Clock Driver without Enable	28-PLCC	5.49	4.40	3.42
SY100E111JY	576-2429-ND	1:9 Diff. Clock Driver with Enable	28-PLCC	6.64	5.32	4.49
SY100E111LEJY	576-1968-5-ND	1:9 Diff. Clock Driver with Enable	28-PLCC	5.49	4.40	3.42
SY100E111LJY	576-1969-5-ND	1:9 Diff. Clock Driver without Enable	28-PLCC	5.49	4.40	3.42
SY100E112JY	576-2430-ND	Quad ECL Driver	28-PLCC	5.40	4.32	3.65
SY100E116JY	576-1970-5-ND	Quint Differential Line Receiver	28-PLCC	5.96	4.77	4.03
SY100E122JY	576-2431-ND	9-Bit Buffer	28-PLCC	5.96	4.77	4.03
SY100E131JY	576-2432-ND	4-Bit D Flip-Flop	28-PLCC	5.96	4.77	4.03
SY100E136JZ	576-2433-ND	6-Bit Universal Up/Down Counter	28-PLCC	5.96	4.77	4.03
SY100E137JZ	576-2434-ND	8-Bit Ripple Counter	28-PLCC	9.80	7.84	6.62
SY100E141JY	576-2435-ND	8-Bit Shift Register	28-PLCC	5.96	4.77	4.03
SY100E150JZ	576-3554-5-ND	6-Bit D Latch ***NEW!***	28-PLCC	5.96	4.77	4.03
SY100E151JZ	576-3555-5-ND	6-Bit D Register ***NEW!***	28-PLCC	5.96	4.77	4.03

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(Continued)

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SY100E154JZ	576-3556-5-ND	2:1 5-Bit Mux-Latch ***NEW!***	28-PLCC	5.96	4.77	4.03
SY100E157JY	576-2436-ND	2:1 Quad Multiplexer	28-PLCC	5.96	4.77	4.03
SY100E158JZ	576-2437-ND	2:1 5-Bit Multiplexer	28-PLCC	5.96	4.77	4.03
SY100E163JZ	576-2438-ND	8:1 2-Bit Multiplexer	28-PLCC	5.96	4.77	4.03
SY100E164JZ	576-2439-ND	16:1 Multiplexer	28-PLCC	7.32	5.86	4.95
SY100E195JY	576-2440-ND	Programmable Delay Chip	28-PLCC	6.76	5.41	4.57
SY100E196JY	576-2441-ND	Prog. Delay Chip with Analog Input	28-PLCC	6.76	5.41	4.57
SY100E222LTY	576-1971-5-ND	3.3V, 1.5GHz, ÷1/÷2 Differential LVECL/ LVPECL Prog. Clock Generator	52-LQFP	8.12	6.50	5.49
SY100E417JY	576-2442-ND	Quint LVPECL-to-PECL or PECL-to-LVPECL Translator	28-PLCC	14.29	12.87	11.42
SY100E445JZ	576-2443-ND	4-Bit Serial-to-Parallel Converter	28-PLCC	8.12	6.50	5.49
SY100E446JZ	576-2444-ND	4-Bit Parallel-to-Serial Converter	28-PLCC	8.12	6.50	5.49
SY100E452JY	576-1972-5-ND	5-Bit Differential Register	28-PLCC	8.12	6.50	5.49
SY100E457JZ-ND	576-2445-ND	2:1 Triple Differential Multiplexer	28-PLCC	8.12	6.50	5.49
SY100EL01ZG	576-2446-ND	4-Input OR/NOR Gate	8-SOIC	3.04	2.43	1.89
SY100EL05ZG	576-2447-ND	2-Input Diff. AND/NAND Gate	8-SOIC	3.04	2.43	1.89
SY100EL07ZG	576-1973-5-ND	2-Input XOR/XNOR Gate	8-SOIC	3.04	2.43	1.89
SY100EL14VZG	576-3386-5-ND	5V, 3.3V, 1:5 Clock Distribution	20-SOIC	3.35	2.69	2.09
SY100EL14VZG TR	576-1555-1-ND	5V, 3.3V, 1:5 Clock Distribution	20-SOIC	3.35	2.69	2.09
SY100EL14VZG TR	576-1555-2-ND	5V, 3.3V, 1:5 Clock Distribution	20-SOIC	1900.00/1,000		
SY100EL15LZG	576-1974-5-ND	3.3V, 1:4 Clock Distribution	16-SOIC	3.35	2.69	2.09
SY100EL15ZG	576-1350-ND	1:4 Clock Distribution	16-SOIC	3.35	2.69	2.09
SY100EL16VAKG	576-3566-5-ND	Enhanced Differential Receiver ***NEW!***	8-MSOP	3.24	2.60	2.02
SY100EL16VAZG	576-1975-5-ND	Enhanced Differential Receiver	8-SOIC	3.24	2.60	2.02
SY100EL16VBKG	576-1976-5-ND	Enhanced Differential Receiver	8-MSOP	3.24	2.60	2.02
SY100EL16VBZG	576-3567-5-ND	Enhanced Differential Receiver ***NEW!***	8-SOIC	3.24	2.60	2.02
SY100EL16VCKG	576-1977-5-ND	Enhanced Differential Receiver	8-MSOP	3.24	2.60	2.02
SY100EL16VCZG	576-3563-5-ND	5V, 3.3V Differential Receiver ***NEW!***	8-SOIC	3.24	2.60	2.02
SY100EL16VDKG	576-1978-5-ND	Enhanced Differential Receiver	10-MSOP	4.14	3.32	2.58
SY100EL16VFKG	576-2448-ND	5V, 3.3V Differential Receiver	8-MSOP	3.24	2.60	2.02
SY100EL16VFZG	576-2449-ND	5V, 3.3V Differential Receiver	8-SOIC	3.24	2.60	2.02
SY100EL16VKG	576-3387-5-ND	5V, 3.3V Differential Receiver	8-MSOP	2.30	1.84	1.43
SY100EL16VKG TR	576-1556-1-ND	5V, 3.3V Differential Receiver	8-MSOP	2.30	1.84	1.43
SY100EL16VKG TR	576-1556-2-ND	5V, 3.3V Differential Receiver	8-MSOP	1301.00/1,000		
SY100EL16VSKG	576-1979-5-ND	5V, 3.3V Differential Receiver	8-MSOP	3.80	3.05	2.37
SY100EL16VZG	576-1351-ND	5V, 3.3V Differential Receiver	8-SOIC	2.30	1.84	1.43
SY100EL16VZG TR	576-1557-1-ND	5V, 3.3V Differential Receiver	8-SOIC	2.30	1.84	1.43
SY100EL16VZG TR	576-1557-2-ND	5V, 3.3V Differential Receiver	8-SOIC	1301.00/1,000		
SY100EL17VZG	576-3388-5-ND	5V, 3.3V Quad Diff. Receiver	20-SOIC	5.88	4.71	3.97
SY100EL17VZG TR	576-1352-1-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	5.88	4.71	3.97
SY100EL17VZG TR	576-1352-2-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	3675.00/1,000		
SY100ELT22LZG	576-3389-5-ND	3.3V Dual TTL-Differential PECL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT23LZG	576-3390-5-ND	Dual Differential PECL-TTL Translator	8-SOIC	2.48	1.98	1.54
SY100EL29VZG	576-1980-5-ND	5V/3.3V Dual D Flip-Flop	20-SOIC	7.04	5.64	4.76
SY100EL31ZG	576-2450-ND	D Flip-Flop with Set and Reset	8-SOIC	3.96	3.17	2.47
SY100EL32VZG	576-1353-ND	5V/3.3V, 2-Divider	8-SOIC	3.29	2.63	2.05
SY100EL33LZG	576-1354-ND	5V/3.3V, 4-Divider	8-SOIC	3.29	2.63	2.05
SY100EL33ZG	576-2451-ND	5V/3.3V, ÷4-Divider	8-SOIC	3.29	2.63	2.05
SY100EL34LZG	576-1981-5-ND	5V/3.3V, ÷2, ÷4, ÷8 Clock Generation Chip	16-SOIC	5.16	4.13	3.49
SY100EL34ZG	576-1982-5-ND	5V/3.3V, ÷2, ÷4, ÷8 Clock Generation Chip	16-SOIC	5.16	4.13	3.49
SY100EL35ZG	576-2452-ND	JK Flip-Flop	8-SOIC	3.65	2.92	2.27
SY100EL38LZG	576-2453-ND	5V/3.3V, ÷2, ÷4/6 Clock Generation Chip	20-SOIC	5.16	4.13	3.49
SY100EL38ZG	576-2454-ND	5V/3.3V, ÷2, ÷4/6 Clock Generation Chip	20-SOIC	5.16	4.13	3.49
SY100EL51ZG	576-1983-5-ND	Differential Clock D Flip-Flop	8-SOIC	3.65	2.92	2.27
SY100EL52ZG	576-1984-5-ND	Differential Data and Clock D Flip-Flop	8-SOIC	3.35	2.69	2.09
SY100EL56VZG	576-1985-5-ND	5V/3.3V Dual Differential 2:1 Mux.	20-SOIC	3.83	3.06	2.38
SY100EL57LZG	576-1355-ND	4:1 Differential Multiplexer	16-SOIC	3.83	3.06	2.38
SY100EL57ZG	576-1356-ND	4:1 Differential Multiplexer	16-SOIC	3.83	3.06	2.38
SY100EL58ZG	576-2455-ND	2:1 Multiplexer	8-SOIC	3.04	2.43	1.89
SY100EL90VZG	576-1986-5-ND	5V/3.3V Triple ECL/LVECL-to-PECL/ LVPECL Translator	20-SOIC	5.24	4.20	3.54
SY100EL91LZG	576-2456-ND	3.3V Triple LVPECL-to-ECL or LVPECL-to-LVECL Translator	20-SOIC	5.24	4.20	3.54
SY100EL91ZG	576-2457-ND	Triple LVPECL-to-ECL or LVPECL-to-LVECL Translator	20-SOIC	5.24	4.20	3.54
SY100EL92ZG	576-1357-ND	Triple LVPECL-to-PECL or PECL-to-LVPECL Translator	20-SOIC	5.24	4.20	3.54
SY100ELT20VZG	576-1358-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT20VZG TR	576-1359-1-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT20VZG TR	576-1359-2-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	1403.00/1,000		
SY100ELT21LZG	576-1987-5-ND	3.3V Differential LVPECL-to-LVTTL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT21ZG	576-2458-ND	Diff. PECL-to-TTL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT22LZG TR	576-1360-1-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT22LZG TR	576-1360-2-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	1403.00/1,000		
SY100ELT22ZG	576-1361-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT23LZG TR	576-1362-1-ND	3.3V Dual Diff. LVPECL-to LVTTL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT23ZG	576-1363-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT23ZG TR	576-1558-1-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.48	1.98	1.54
SY100ELT23ZG TR	576-1558-2-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	1403.00/1,000		
SY100ELT24ZG	576-1988-5-ND	TTL-to-Diff. ECL Translator	8-SOIC	3.29	2.63	2.05
SY100ELT25ZG	576-2459-ND	Diff. ECL-to-TTL Translator	8-SOIC	3.29	2.63	2.05
SY100ELT28ZG	576-2460-ND	5V, TTL-to-Diff. PECL and Diff. PECL-to-TTL Translator	8-SOIC	3.29	2.63	2.05
SY100ELT982KG	576-1989-5-ND	PECL-to-CML Translator	10-MSOP	6.60	5.28	4.46
SY100EP14UK4G	576-1366-ND	2.5V/3.3V/5V, 1:5 LVPECL/PECL/ECL/HSTL 2GHz Clock Driver	20-TSSOP	3.83	3.06	2.38
SY100EP16UKG	576-3428-5-ND	2.5V/3.3V HS ECL Diff. Receiver/Driver	8-MSOP	3.60	2.88	2.24
SY100EP16UMG TR	576-3429-1-ND	2.5V/3.3V HS ECL Diff. Receiver/Driver	8-MLF	3.60	2.88	2.24
SY100EP16UMG TR	576-3429-2-ND	2.5V/3.3V HS ECL Diff. Receiver/Driver	8-MLF	2040.00/1,000		
SY100EP16UZG	576-3430-5-ND	2.5V/3.3V HS ECL Diff. Receiver/Driver	8-SOIC	3.60	2.88	2.24
SY100EP16VKG	576-3431-5-ND	3.3V/5V HS ECL Differential Receiver/Driver	8-MSOP	3.60	2.88	2.24
SY100EP16VMG TR	576-3432-1-ND	3.3V/5V HS ECL Differential Receiver/Driver	8-MLF	3.60	2.88	2.24
SY100EP16VMG TR	576-3432-2-ND	3.3V/5V HS ECL Differential Receiver/Driver	8-MLF	2040.00/1,000		
SY100EP16VSKY	576-2461-ND	5V/3.3V 2.5Gbps Differential Receiver	8-MSOP	6.10	4.88	4.12
SY100EP16VZG	576-3433-5-ND	3.3V/5V HS ECL Differential Receiver/Driver	8-SOIC	3.60	2.88	2.24
SY100EP32VKG	576-1995-5-ND	5V/3.3V, ÷2 Divider	8-MSOP	3.83	3.06	2.38
SY100EP32VZG	576-2463-ND	5V/3.3V, ÷2 Divider	8-SOIC	3.83	3.06	2.38
SY100EP33VKG	576-1996-5-ND	5V/3.3V, 4GHz ÷4 PECL/LVPECL Divider	8-MSOP	3.83	3.06	2.38
SY100EP33VZG	576-2464-ND	5V/3.3V, ÷4 Divider	8-SOIC	3.83	3.06	2.38
SY100EP56VK4G	576-1367-ND	3.3V/5V PECL/ECL 3GHz Dual Diff. 2:1 Mux.	20-TSSOP	4.88	3.91	3.04
SY100EP57VK4G	576-1997-5-ND	3.3V/5V PECL/ECL 3GHz Diff. 4:1 Mux.	20-TSSOP	4.88	3.91	3.04
SY100EP58VKG	576-1998-5-ND	3.3V/5V, 3GHz PECL/ECL 2:1 Multiplexer	8-MSOP	3.83	3.06	2.38
SY100EP111UTG	576-1364-ND	2.5V/3.3V, 1:10 Differential LVPECL/LVECL/ HSTL Clock Driver	32-TQFP	5.68	4.55	3.84
SY100EP140LZG	576-1991-5-ND	3.3V, PECL/ECL Diff. Phase-Freq. Detector	8-SOIC	8.12	6.50	5.49

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SY100EP195VTG	576-1993-5-ND	3.3V/5V, 2.5GHz Prog. Delay	32-TQFP	9.48	7.59	6.40
SY100EP196VTG	576-2462-ND	3.3V/5V, 2.5GHz Prog. Delay, Fine Tune Control	32-TQFP	9.48	7.59	6.40
SY100EP210UTG	576-1994-5-ND	2.5V/3.3V Dual 1:5 Differential LVECL/ LVPECL/HSTL Clock Driver	32-TQFP	9.48	7.59	6.40
SY100EPT20VKG	576-1999-5-ND	5V/3.3V, LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MSOP	2.59	2.07	1.61
SY100EPT20VZG	576-2000-5-ND	5V/3.3V, LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-SOIC	2.59	2.07	1.61
SY100EPT21LKG	576-2001-5-ND	3.3V Diff. LVPECL-to-LVTTL Translator	8-MSOP	2.59	2.07	1.61
SY100EPT21LZG	576-2002-5-ND	3.3V Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.59	2.07	1.61
SY100EPT22VKG	576-2003-5-ND	3.3V/5V, Dual LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MSOP	2.59	2.07	1.61
SY100EPT22VZG	576-2004-5-ND	3.3V/5V, Dual LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-SOIC	2.59	2.07	1.61
SY100EPT23LZG	576-1369-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.59	2.07	1.61
SY100EPT28LKG	576-2465-ND	3V LVTTL-to-Diff. LVPECL and Diff. LVPECL- to-LVTTL Translator	8-MSOP	3.04	2.43	1.89
SY100EPT28LZG	576-2466-ND	3V LVTTL-to-Diff. LVPECL and Diff. LVPECL- to-LVTTL Translator	8-SOIC	3.04	2.43	1.89
SY100H600JZ	576-2467-ND	9-Bit, TTL-to-ECL Translator, TTL, ECL Enable	28-PLCC	9.95	8.96	7.95
SY100H601JZ	576-2468-ND	9-Bit, ECL-to-TTL Translator, 3-State Enable	28-PLCC	9.95	8.96	7.95
SY100H602JZ	576-2469-ND	9-Bit, Latched TTL-to-ECL Translator	28-PLCC	9.95	8.96	7.95
SY100H641LJZ	576-2006-5-ND	3.3V, 1:9 PECL-to-TTL Clock Driver	28-PLCC	8.12	6.50	5.49
SY100H646LJC	576-3287-5-ND	3.3V, 1:8 PECL/TTL-to-TTL Clock Driver	28-PLCC	9.34	7.48	6.31
SY100H646LJZ	576-2007-5-ND	3.3V, 1:8 PECL/TTL-to-TTL Clock Driver	28-PLCC	8.12	6.50	5.49
SY100H842LZG	576-2008-5-ND	3.3V, 1:4 PECL-to-TTL Clock Driver	16-SOIC	8.12	6.50	5.49
SY100H842ZH	576-2470-ND	Single Supply Quad PECL-to-TTL Clock Dvr.	16-SOIC	8.12	6.50	5.49
SY100S304JZ	576-2471-ND	Quint AND/NAND Gate	28-PLCC	14.69	13.23	11.74
SY100S314JZ	576-2472-ND	Quint Diff. Line Receiver	28-PLCC	14.69	13.23	11.74
SY100S322JZ	576-2009-5-ND	9-Bit Buffer	28-PLCC	15.23	13.71	12.16
SY100S324JY	576-2473-ND	Low Power Hex TTL-to-ECL Translator	28-PLCC	15.23	13.71	12.16
SY100S325JY	576-2474-ND	Low Power Hex ECL-to-TTL Translator	28-PLCC	15.23	13.71	12.16
SY100S331JZ	576-2475-ND	Triple D Flip-Flop	28-PLCC	16.29	14.67	13.01
SY100S351JZ	576-2010-5-ND	Hex D Flip-Flop	28-PLCC	15.96	14.37	12.75
SY100S363JZ	576-2476-ND	8-Input Dual Multiplexer	28-PLCC	19.37	18.08	16.79
SY100S391JZ	576-2477-ND	Low Power Hex TTL-to-PECL Translator	28-PLCC	21.83	20.37	18.92
SY100S811ZH	576-2478-ND	1:9 Single Supply PECL/TTL-to-PECL	28-SOIC	15.93	14.87	13.81
SY100S815ZH	576-2011-5-ND	1:4 Single Supply Quad PECL/TTL- to-PECL	16-SOIC	15.93	14.87	13.81
SY100S834LZG	576-2012-5-ND	(÷1, ÷2, ÷4) or (÷2, ÷4, ÷8) Clock Generation Chip	16-SOIC	5.24	4.20	3.54
SY100S834ZG	576-2479-ND	(÷1, ÷2, ÷4) or (÷2, ÷4, ÷8) Clock Generation Chip	16-SOIC	5.24	4.20	3.54
SY100S838LZG	576-2013-5-ND	(÷1, ÷2/3) or (÷2, ÷4/6) Clock Generation Chip	20-SOIC	5.24	4.20	3.54
SY100S838ZG	576-2480-ND	(÷1, ÷2/3) or (÷2, ÷4/6) Clock Generation Chip	20-SOIC	5.24	4.20	3.54
SY100S839VZG	576-2014-5-ND	÷2/4, ÷4/5/6 Clock Generation Chip	20-SOIC	5.24	4.20	3.54
SY100S863JZ	576-2481-ND	8-Input PECL Diff. Mux with TTL Selects	28-PLCC	20.15	18.81	17.46
SY604JZ	576-2539-ND	125MHz Trigger Prog. Timing Edge Vernier	28-PLCC	53.01	49.48	45.95
SY54016ARMG TR	576-3068-1-ND	1.2V/1.8V, CML Diff. Line Driver/Receiver	8-MLF	5.14	4.12	3.47
SY54016ARMG TR	576-3068-2-ND	1.2V/1.8V, CML Diff. Line Driver/Receiver	8-MLF	3213.00/1,000		
SY54016RMG TR	576-3069-1-ND	1.2V/1.8V, CML Diff. Line Driver/Receiver	8-MLF	5.14	4.12	3.47
SY54016RMG TR	576-3069-2-ND	1.2V/1.8V, CML Diff. Line Driver/Receiver	8-MLF	3213.00/1,000		
SY54017ARMG	576-3057-ND	1.2V/1.8V, CML 2:1 Multiplexer	16-MLF	7.48	5.99	5.05
SY54017RMG	576-3063-ND	1.2V/1.8V, CML 2:1 Multiplexer	16-MLF	7.48	5.99	5.05
SY54023ARMG	576-3308-5-ND	1.2V/1.8V CML 2x2 Crosspoint Switch	16-MLF	13.18	11.09	10.19
SY54023RMG	576-3061-ND	1.2V/1.8V, CML 2x2 Crosspoint Switch	16-MLF	11.38	10.25	9.09
SY55851AUKG	576-1375-ND	2.5V/3V, 3.0GHz CML AnyGate Any Logic	10-MSOP	7.24	5.80	4.89
SY55852UKG	576-2534-ND	D Flip-Flop	10-MSOP	7.24	5.80	4.89
SY55853UKG	576-3559-5-ND	D Latch ***NEW!***	8-MSOP	7.24	5.80	4.89
SY55854UYY	576-2045-5-ND	2x2 Protection Crosspoint Switch	16-QSOP	7.24	5.80	4.89
SY55855VKG	576-1376-ND	Dual CML/PECL/LVPECL-to-LVDS Translator	10-MSOP	6.42	5.14	4.34
SY55856UHG	576-2046-ND	2.5/3.3V, 2.5GHz Diff. 2-Ch. CML Delay Line	32-TQFP	16.89	15.77	14.64
SY55857LKG	576-1377-ND	3.3V, 2.5Gbps Any Input-to-LVPECL Dual Translator	10-MSOP	6.42	5.14	4.34
SY55858UHG	576-1378-ND	2.5V/3.3V, 3.0GHz Dual 2x2 CML Crosspoint Switch	32-TQFP	11.38	10.25	9.09
SY55859LMG	576-1379-ND	3.3V, 2.7Gbps Dual 2x2 Crosspoint Switch	32-MLF	11.28	10.16	9.01
SY56016RMG TR	576-3498-1-ND	1.2V/1.8V/2.5V CML Diff. Line Driver Rcvr. ***NEW!***	10-MLF	9.40	7.52	6.35
SY56016RMG TR	576-3498-2-ND	1.2V/1.8V/2.5V CML Diff. Line Driver Rcvr. ***NEW!***	10-MLF	5875.00/1,000		
SY56017RMG	576-3289-5-ND	1.2V/1.8V/2.5V CML 2:1 Multiplexer with Equalization	16-MLF	9.36	8.43	7.48
SY56023RMG	576-3290-5-ND	1.2V/1.8V/2.5V CML 2x2 Crosspoint Switch	16-MLF	14.79	13.32	11.82
SY56034ARMG	576-3310-5-ND	1.2V/1.8V/2.5V CML 2:6 Multiplexer	32-MLF	15.74	14.69	13.64
SY56040ARMY	576-3499-ND	5GHz,1.2V/1.8V/2.5V CML 4x4 Crosspoint Switch ***NEW!***	44-MLF	20.75	19.37	17.98
SY56040ARMY TR	576-3311-1-ND	5GHz,1.2V/1.8V/2.5V CML 4x4 Crosspoint Switch	44-MLF	20.75	19.37	17.98
SY56040ARMY TR	576-3311-2-ND	5GHz,1.2V/1.8V/2.5V CML 4x4 Crosspoint Switch	44-MLF	17080.00/1,000		
SY58017UMG	576-1534-5-ND	Ultra Precision CML 2:1 Multiplexer	16-MLF	8.68	6.95	5.86
SY58018UMG	576-1562-5-ND	Ultra Precision LVPECL 2:1 Multiplexer	16-MLF	7.32	5.86	4.95
SY58019UMG	576-2048-5-ND	2:1 LVPECL Multiplexer	16-MLF	8.68	6.95	5.86
SY58020UMG	576-2536-ND	1:4 Buffer/Translator	16-MLF	7.98	6.39	5.39
SY58023UMG	576-1380-ND	Ultra-Low Jitter 2x2 Crosspoint Switch	16-MLF	11.38	10.25	9.09
SY58024UMG	576-1381-ND	Ultra-Low Jitter Dual 2x2 Crosspoint Switch	32-MLF	16.06	14.46	12.83
SY58025UMG	576-1382-ND	Ultra Precision Dual 2:1 CML Multiplexer	32-MLF	10.40	9.36	8.30
SY58026UMG	576-1383-ND	Ultra Precision Dual 2:1 LVPECL Multiplexer	32-MLF	10.40	9.36	8.30
SY58027UMG	576-1384-ND	Ultra Prec. Dual 2:1 400mV LVPECL Mux	32-MLF	10.40	9.36	8.30
SY58028UMG	576-1385-ND	Ultra Precision Diff. CML 4:1 Multiplexer	32-MLF	10.71	9.65	8.56
SY58029UMG	576-1386-ND	Ultra Precision Diff. LVPECL 4:1 Multiplexer	32-MLF	10.71	9.65	8.56
SY58030UMG	576-1387-ND	Ultra Prec., 400mV Diff. LVPECL 4:1 Mux	32-MLF	10.71	9.65	8.56
SY58039UMG	576-1396-ND	Ultra Precision 8:1 Multiplexer	44-MLF	11.56	10.41	9.24
SY58040UMY	576-2537-ND	Ultra Precision 4x4 CML Switch	44-MLF	15.44	14.41	13.38
SY58051UMG	576-1398-ND	Ultra Precision CML AnyGate™	16-MLF	9.36	8.43	7.48
SY58052UMG	576-1399-ND	Ultra Prec. CML Data/Clock Synchronizer	16-MLF	9.36	8.43	7.48
SY58600UMYG TR	576-1400-1-ND	Ultra Precision Dif. CML Line Driver/Recvr	8-MLF	5.58	4.47	3.48
SY58600UMYG TR	576-1400-2-ND	Ultra Precision Diff. CML Line Driver/Recvr	8-MLF	3162.00/1,000		
SY58601UMG TR	576-1401-1-ND	Ultra Precision Diff. 800mV LVPECL Line Driver/Receiver	8-MLF	5.58	4.47	3.48
SY58601UMG TR	576-1401-2-ND	Ultra Precision Differential 800mV LVPECL Line Driver/Receiver	8-MLF	3162.00/1,000		

MICREL® Innovation Through Technology™ Digi-Reel® *(Cont.)*

HIGH BAND-WIDTH ICs

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY58602UMG TR	576-1402-1-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	5.58	4.47	3.48
SY58602UMG TR	576-1402-2-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	3162.00/1,000		
SY58603UMG TR	576-1594-1-ND	4.25Gbps Precision 400mV CML Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58603UMG TR	576-1594-2-ND	4.25Gbps Precision 400mV CML Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58604UMG TR	576-1595-1-ND	3.2Gbps Precision 800mV LVPECL Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58604UMG TR	576-1595-2-ND	3.2Gbps Precision 800mV LVPECL Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58605UMG TR	576-1596-1-ND	3.2Gbps Precision 325mV LVDS Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58605UMG TR	576-1596-2-ND	3.2Gbps Precision 325mV LVDS Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58609UMG	576-2051-5-ND	2.5V/3.3V, 2:1 CML Multiplexer	16-MLF	5.48	4.39	3.70
SY58610UMG	576-2052-5-ND	2.5V/3.3V, 2:1 LVPECL Multiplexer	16-MLF	5.48	4.39	3.70
SY58611UMG	576-2053-5-ND	2.5V, 2:1 LVDS Multiplexer	16-MLF	5.48	4.39	3.70
SY58620LMG	576-2054-5-ND	Prec. 4.25Gbps CML Backplane Transceiver	24-MLF	9.66	7.73	6.53
SY58621LMG	576-2538-ND	Prec. 3.2Gbps CML/LVPECL Backplane Xcvr.	24-MLF	9.66	7.73	6.53
SY58626LMH	576-2055-5-ND	DC to 6.4Gbps Backplane Transmit Buffer	32-MLF	15.23	14.21	13.20
SY58627LMG	576-1470-1-ND	DC to 6.4Gbps Backplane Receiver Buffer	32-MLF	15.23	14.21	13.20
SY58627LMG	576-1470-2-ND	DC to 6.4Gbps Backplane Receiver Buffer	32-MLF	12535.00/1,000		
SY69753LHG	576-1403-ND	3.3V, 155Mbps Clock/Data Recovery	32-TQFP	15.77	14.72	13.67
SY69952ZH	576-2056-5-ND	Clock Recovering Transceiver	28-SOIC	23.66	22.08	20.51
SY84403BLMG TR	576-3535-1-ND	3.3V, 4.25Gbps CML Post Limiting Amp ***NEW!***	10-MLF	4.50	3.60	3.04
SY84403BLMG TR	576-3535-2-ND	3.3V, 4.25Gbps CML Post Limiting Amp ***NEW!***	10-MLF	2813.00/1,000		
SY87700ALHG	576-1584-ND	LP 3.3V, 208Mbps AnyRate® Clock/Data Recovery	32-TQFP	23.66	22.08	20.51
SY87700ALZG	576-2057-5-ND	3.3V, 32~208Mbps AnyRate® Clock/ Data Recovery	28-SOIC	23.66	22.08	20.51
SY87700LHG	576-2058-ND	3.3V, 32~175Mbps AnyRate® Clock/ Data Recovery	32-ETQFP	24.23	22.61	21.00
SY87700LZG	576-2059-5-ND	3.3V, 32~175Mbps AnyRate® Clock/ Data Recovery	28-SOIC	24.23	22.61	21.00
SY87700VHH	576-2540-ND	5V/3.3V, 32~175Mbps AnyRate® Clock/ Data Recovery	32-TQFP	24.23	22.61	21.00
SY87700VZH	576-3338-5-ND	5V/3.3V, 32~175Mbps AnyRate® Clock/ Data Recovery	28-SOIC	24.23	22.61	21.00
SY87701ALHG	576-1585-ND	3.3V, 1.3Gbps AnyRate® Clock/ Data Recovery	32-TQFP	35.06	32.72	30.39
SY87701ALZG	576-2541-ND	3.3V, 28Mbps~1.3Gbps AnyRate® Clock/ Data Recovery	28-SOIC	35.06	32.72	30.39
SY87701LHG	576-2542-ND	3.3V, 32~1250Mbps AnyRate® Clock/ Data Recovery	32-TQFP	35.21	32.86	30.52
SY87701VHH	576-2060-ND	5V/3.3V, 32~1250Mbps AnyRate® Clock/ Data Recovery	32-TQFP	35.21	32.86	30.52
SY87701VZH	576-2969-5-ND	5V/3.3V, 32~1250Mbps AnyRate® Clock/ Data Recovery	28-SOIC	35.21	32.86	30.52
SY87721LHY	576-2061-5-ND	3.3V, 28Mbps~2.7Gbps AnyRate® Clock/ Data Recovery	64-TQFP	43.13	40.25	37.38
SY87724LHEY	576-2985-ND	3.3V AnyRate® Mux/Demux	80-TQFP	38.88	36.29	33.70
SY87725LHY	576-2544-ND	Single Chip Transceiver	64-TQFP	14.66	13.20	11.71
SY87729LHY	576-2062-ND	3.3V, AnyClock® Fractional-N Synthesizer	32-TQFP	18.81	17.56	16.31
SY87739LHY	576-2545-ND	3.3V, Fractional-N Synthesizer	32-TQFP	20.58	19.21	17.84
SY88147DLKG	576-1614-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	5.02	4.02	3.39
SY88149CLKG	576-3393-5-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88149CLKG TR	576-1471-1-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88149CLKG TR	576-1471-2-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	3300.00/1,000		
SY88212LMG	576-3062-ND	3.3V, 2.5Gbps Laser Driver	24-MLF	5.64	4.52	3.81
SY88216LMG	576-3234-5-ND	3.3V, 2.5Gbps Laser Driver	24-MLF	5.28	4.23	3.57
SY88232LMG	576-3540-ND	3.3V, 2.5Gbps Laser Diode Driver ***NEW!***	32-MLF	7.04	5.64	4.76
SY88236LMG	576-3526-5-ND	3.3V, 2.5Gbps Laser Driver ***NEW!***	32-MLF	7.04	5.64	4.76
SY88289ALMG	576-1600-ND	3.3V, 3.2Gbps CML LP Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88289CLMG	576-1601-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88289HLMG	576-2966-5-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88303BLEY	576-2988-ND	3.3V, 3.2Gbps CML Limiting Post Amp	10-MSOP	6.94	5.56	4.69
SY88303BLMG	576-3060-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88305BLEY	576-3059-ND	3.3V, 3.2Gbps CML Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88305BLMG	576-3056-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88307BLEY	576-2967-5-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88307BLMG	576-3054-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88309BLEY	576-2968-5-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88309BLMG	576-3055-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88315BLMG	576-1472-1-ND	3.3V, 3.2Gbps CML LP Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88313BLMG	576-2063-5-ND	3.3V, 3.2Gbps CML LP Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88315BLMG	576-1472-2-ND	3.3V, 3.2Gbps CML LP Limiting Post Amp	16-MLF	3650.00/1,000		
SY88343BLEY	576-2064-5-ND	3.3V, 3.2Gbps CML Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88343HLMG	576-3058-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88345BLEY	576-1602-ND	3.3V, 3.2Gbps CML LP Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88347DLEY	576-1504-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88353BLMG	576-1505-ND	3.3V, 3.2Gbps Limiting Post Amp	16-MLF	7.54	6.04	5.09
SY88403BLEY	576-2065-5-ND	3.3V, 4.25Gbps CML LP Limiting Post Amp	10-MSOP	6.34	5.08	4.28
SY88403BLMG	576-1474-1-ND	3.3V, 4.25Gbps CML LP Limiting Post Amp	16-MLF	6.34	5.08	4.28
SY88403BLMG	576-1474-2-ND	3.3V, 4.25Gbps CML LP Limiting Post Amp	16-MLF	3963.00/1,000		
SY88422LMG	576-2984-ND	3.3V, 4.25Gbps Laser Driver	16-MLF	5.80	4.64	3.92
SY88703VKG	576-2546-ND	3.3V/5V 622Mbps PECL Low Power Limiting Post Amp	10-MSOP	8.14	6.52	5.50
SY88722VKG	576-2066-5-ND	5V/3.3V Laser Diode Driver	10-MSOP	5.20	4.16	3.24
SY88773VMG	576-1409-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88782LMG	576-2067-5-ND	3.3V, Low Power Laser Driver	16-MLF	5.50	4.40	3.72
SY88793VKG	576-2547-ND	3.3V/5V, 622Mbps PECL Low Power Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88803VKG	576-2068-5-ND	3.3V/5V, PECL LP Limiting Post Amp	10-MSOP	5.54	4.44	3.74
SY88813VKG	576-2069-5-ND	3.3V/5V, PECL LP Limiting Post Amp	10-MSOP	5.84	4.68	3.95
SY88822VKG	576-2070-5-ND	5V/3.3V Laser Diode Driver	10-MSOP	7.04	5.64	4.76
SY88843VEY	576-3251-5-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	6.28	5.03	4.24
SY88843VMG	576-1411-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	6.28	5.03	4.24
SY88893VKG	576-2548-ND	3.3V/5V, 155Mbps PECL Low Power Limiting Post Amp	10-MSOP	6.84	5.48	4.62
SY88903ALKG	576-2071-5-ND	3.3V, 1.25Gbps PECL High Sensitivity Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88903VKG	576-2072-5-ND	5V/3.3V, 1.25Gbps HS Limiting Post Amp	10-MSOP	6.02	4.82	4.07
SY88912LMG	576-2549-ND	3.3V, 3.2Gbps Sonet/SDH Laser Driver	16-MLF	10.48	9.44	8.37
SY88913VKG	576-2073-5-ND	5V/3.3V, 1.25Gbps HS Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88922VKG	576-2074-5-ND	5V/3.3V, Laser Diode Driver	10-MSOP	8.54	6.84	5.77
SY88923AVKG	576-2550-ND	5V/3.3V, 3.2Gbps HS Limiting Post Amp	10-MSOP	6.28	5.03	4.24
SY88923VKG	576-2075-5-ND	5V/3.3V, 2.5Gbps HS Limiting Post Amp	10-MSOP	7.04	5.64	4.76
SY88927VKG	576-2551-ND	5V/3.3V, 2.5Gbps HS Differential Receiver	8-MSOP	8.04	6.44	5.43
SY88932LMG	576-2076-5-ND	3.3V, 4.25Gbps Sonet/SDH Laser Driver	16-MLF	7.04	5.64	4.76
SY88933ALKG	576-1451-ND	3.3V, 1.25Gbps PECL High Sensitivity Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88933VKG	576-3394-5-ND	3.3V/5V 1.25Gbps PECL Low Power Limiting Post Amp	10-MSOP	6.04	4.84	4.08
SY88933VKG TR	576-1412-1-ND	3.3V/5V 1.25Gbps PECL Low Power Limiting Post Amp	10-MSOP	6.04	4.84	4.08
SY88943VKG	576-2077-5-ND	5V/3.3V, 2.5Gbps Limiting Post Amp	10-MSOP	8.04	6.44	5.43
SY88952LMG	576-2552-ND	3.3V, 2.7Gbps SDH/Sonet Laser Driver	32-MLF	16.50	15.40	14.30
SY88953LMG	576-2078-5-ND	3.3V, 10Gbps CML Limiting Post Amp	16-MLF	26.40	24.64	22.88
SY88973VEY	576-2553-ND	3.3V/5V 3.2Gbps PECL Low Power Limiting Post Amp	10-MSOP	5.54	4.44	3.74
SY88973VMG	576-1414-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	5.54	4.44	3.74
SY88982LMG	576-1452-ND	3.3V, 2.7Gbps High Current Low Power Laser Driver	16-MLF	7.70	6.16	5.20
SY88983VMG	576-2079-5-ND	3.3V/5V, 3.2Gbps CML Limiting Post Amp	16-MLF	9.96	8.97	7.96
SY88992LMG	576-1475-1-ND	3.3V, 4.25Gbps VCSEL Driver	16-MLF	7.30	5.84	4.93
SY88992LMG	576-1475-2-ND	3.3V, 4.25Gbps VCSEL Driver	16-MLF	2318.00/500		
SY88992LMG	576-2970-5-ND	3.3V, 4.25Gbps VCSEL Driver	16-MLF	7.30	5.84	4.93
SY88993ALKG	576-3339-5-ND	3.3V, 3.2Gbps HS Limiting Post Amplifier	10-MSOP	5.28	4.23	3.57
SY88993AVKG	576-3395-5-ND	5V/3.3V 3.2Gbps HS Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88993AVKG TR	576-1415-1-ND	5V/3.3V 3.2 Gbps HS Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY88993AVKG TR	576-1415-2-ND	5V/3.3V 3.2 Gbps HS Limiting Post Amp	10-MSOP	3300.00/1,000		
SY88993VKG	576-2554-ND	5V/3.3V 3.2Gbps HS Limiting Post Amp	10-MSOP	5.28	4.23	3.57
SY89206VMG TR	576-2945-1-ND	3.3V/5V, 1GHz Diff. PECL/ECL Rcvr./Buffer	8-MLF	3.04	2.43	1.89
SY89206VMG TR	576-2945-2-ND	3.3V/5V, 1GHz Diff. PECL/ECL Rcvr./Buffer	8-MLF	1721.00/1,000		
SY89208VMG TR	576-2946-1-ND	3.3V/5V, 3GHz PECL/ECL 2:1 Multiplexer	8-MLF	3.83	3.06	2.38
SY89208VMG TR	576-2946-2-ND	3.3V/5V, 3GHz PECL/ECL 2:1 Multiplexer	8-MLF	2168.00/1,000		
SY89222LMG TR	576-2947-1-ND	3.3V, Dual TTL-Differential PECL Translator	8-MLF	3.29	2.63	2.05
SY89222LMG TR	576-2947-2-ND	3.3V, Dual TTL-Differential PECL Translator	8-MLF	1862.00/1,000		
SY89223LMG TR	576-3008-1-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-MLF	3.29	2.63	2.05
SY89223LMG TR	576-3008-2-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-MLF	1854.00/1,000		
SY89230UMG	576-2964-5-ND	3.2GHz Precision LVPECL Clock Divider	16-MLF	5.62	4.50	3.80
SY89231UMG	576-2965-5-ND	3.2GHz Precision LVDS Clock Divider	16-MLF	5.62	4.50	3.80
SY89250VMG TR	576-2948-1-ND	PECL/ECL Receiver/Buffer	8-MLF	3.42	2.74	2.13
SY89250VMG TR	576-2948-2-ND	PECL/ECL Receiver/Buffer	8-MLF	1938.00/1,000		
SY89251VMG TR	576-3500-1-ND	3.3V/5V PECL/ECL Diff. Receiver ***NEW!***	8-MLF	3.42	2.74	2.13
SY89251VMG TR	576-3500-2-ND	3.3V/5V PECL/ECL Diff. Receiver ***NEW!***	8-MLF	1938.00/1,000		
SY89295UMG	576-2555-ND	2.5V/3.3V, 1.5GHz Precision LVPECL Programmable Delay	32-MLF	9.03	8.13	7.21
SY89295UTG	576-2081-ND	2.5V/3.3V, 1.5GHz Precision LVPECL Programmable Delay	32-TQFP	9.03	8.13	7.21
SY89296UMG	576-2556-ND	2.5V/3.3V, 1.5GHz Precision LVPECL Programmable Delay	32-MLF	9.03	8.13	7.21
SY89296UTG	576-2557-ND	2.5V/3.3V, 1.5GHz Precision LVPECL Programmable Delay	32-TQFP	9.03	8.13	7.21
SY89297UMH	576-2991-ND	2.5V, 3.2Gbps CML 2-Ch. Prog. Delay	24-MLF	16.09	14.49	12.85
SY89306VMG TR	576-2949-1-ND	3.3V/5V, 2.5GHz PECL/ECL Diff. Rcvr./Buffer	8-MLF22D	3.04	2.43	1.89
SY89306VMG TR	576-2949-2-ND	3.3V/5V, 2.5GHz PECL/ECL Diff. Rcvr./Buffer	8-MLF22D	1721.00/1,000		
SY89307VMG TR	576-2950-1-ND	5V/3.3V, 2.5Gbps PECL/ECL Diff. Receiver	8-MLF	3.04	2.43	1.89
SY89307VMG TR	576-2950-2-ND	5V/3.3V, 2.5Gbps PECL/ECL Diff. Receiver	8-MLF	1721.00/1,000		
SY89311UMG TR	576-2951-1-ND	2.5V/3.3V/5V 1:2 Differential PECL/LVPECL/ ECL Fanout Buffer	8-MLF	3.04	2.43	1.89
SY89311UMG TR	576-2951-2-ND	2.5V/3.3V/5V 1:2 Differential PECL/LVPECL/ ECL Fanout Buffer	8-MLF	1721.00/1,000		
SY89313VMG TR	576-2952-1-ND	3.3V/5V, 4GHz PECL/ECL /4 Clock Generator	8-MLF	3.04	2.43	1.89
SY89313VMG TR	576-2952-2-ND	3.3V/5V, 4GHz PECL/ECL /4 Clock Generator	8-MLF	1721.00/1,000		
SY89316VMG TR	576-2953-1-ND	3.3V/5V, 2.5GHz PECL/ECL Diff. Rcvr./Buffer	8-MLF	3.04	2.43	1.89
SY89316VMG TR	576-2953-2-ND	3.3V/5V, 2.5GHz PECL/ECL Diff. Rcvr./Buffer	8-MLF	1721.00/1,000		
SY89321LMG TR	576-2954-1-ND	3.3V Diff. LVPECL-to-LVTTL Translator	8-MLF	2.81	2.25	1.75
SY89321LMG TR	576-2954-2-ND	3.3V Diff. LVPECl-to-LVTTL Translator	8-MLF	1594.00/1,000		
SY89322VMGTR	576-2108-1-ND	3.3V/5V, Dual LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	2.81	2.25	1.75
SY89322VMGTR	576-2108-2-ND	3.3V/5V, Dual LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	1594.00/1,000		
SY89323LMG TR	576-2955-1-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-MLF	2.81	2.25	1.75
SY89323LMG TR	576-2955-2-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-MLF	1594.00/1,000		
SY89325VMG TR	576-1418-1-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	3.33	2.67	2.08
SY89325VMG TR	576-1418-2-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	1887.00/1,000		
SY89327LMG TR	576-1419-1-ND	3.3V 2.5Gbps Any Input-to-LVPECL Differential Translator	8-MLF	3.33	2.67	2.08
SY89327LMG TR	576-1419-2-ND	3.3V 2.5Gbps Any Input-to-LVPECL Differential Translator	8-MLF	1887.00/1,000		
SY89328LMG TR	576-2956-1-ND	3V, LVTTL-to-Differential LVPECL and Diff. LVPECL-to-LVTTL Translator	8-MLF	2.81	2.25	1.75
SY89328LMG TR	576-2956-2-ND	3V, LVTTL-to-Differential LVPECL and Diff. LVPECL-to-LVTTL Translator	8-MLF	1594.00/1,000		
SY89329VMG TR	576-1420-1-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	2.81	2.25	1.75
SY89329VMG TR	576-1420-2-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	1594.00/1,000		
SY89420VJZ	576-2558-ND	5V/3.3V Dual PLL	28-PLCC	15.68	14.12	12.52
SY89421VZC	576-1421-ND	5V/3.3V High Performance PLL	20-SOIC	10.33	9.30	8.25
SY89421VZH	576-2119-5-ND	5V/3.3V High Performance PLL	20-SOIC	13.93	12.54	11.12
SY89429AJZ	576-2082-5-ND	5V/3.3V Prog. Freq. Synthesizer	28-PLCC	9.30	8.37	7.43
SY89429AZH	576-2083-5-ND	5V/3.3V Prog. Freq. Synthesizer	28-SOIC	8.43	7.59	6.73
SY89429VJZ	576-2559-ND	5V/3.3V Prog. Freq. Synthesizer	28-PLCC	9.30	8.37	7.43
SY89429VZH	576-1422-ND	5V/3.3V Prog. Freq. Synthesizer	28-SOIC	8.43	7.59	6.73
SY89430VJZ	576-2560-ND	5V/3.3V Prog. Freq. Synthesizer	28-PLCC	10.45	9.41	8.34
SY89430VZH	576-2561-ND	5V/3.3V Prog. Freq. Synthesizer	28-SOIC	10.45	9.41	8.34
SY89474UMG	576-2562-ND	2:1 LVDS Precision Mux with 1:2 Fanout	24-MLF	5.62	4.50	3.80
SY89531LHZ	576-3541-ND	3.3V, Precision Prog. Synthesizer ***NEW!***	64-e-TQFP	24.11	22.50	20.90
SY89534LHZ	576-2087-ND	3.3V, Precision Prog. Synthesizer	64-TQFP	24.11	22.50	20.90
SY89540UMY	576-3241-ND	Precision Low Jitter 4x4 Crosspoint Switch	44-MLF	12.06	10.86	9.63
SY89542UMG	576-1423-5-ND	2.5V, 2:1 Dual LVDS Multiplexer	32-MLF	5.14	4.12	3.47
SY89610LMG	576-3088-5-ND	3.3V, Precision Freq. Synthesizer	32-MLF	20.13	18.79	17.45

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(Continued)

HIGH BAND-WIDTH ICs

(Cont.)

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY89808LTG	576-2564-ND	3.3V, 1:9 Diff. HSTL Buffer/Translator	32-TQFP	8.12	6.50	5.49
SY89809LTH	576-2089-ND	3.3V, 1:9 High Perf. LV Bus Clock Driver	32-TQFP	8.12	6.50	5.49
SY89824LHZ	576-2565-ND	3.3V, 1:22 High Perf. LV Bus Clock Driver	64-TQFP	12.41	11.18	9.91
SY89825UHY	576-2566-ND	2.5V/3.3V, 1:22 High Performance Low Voltage Bus Clock Driver/Translator	64-TQFP	13.39	12.06	10.70
SY89826LHY	576-2567-ND	3.3V, 1:22 LVDS Buffer/Translator	64-TQFP	17.57	16.40	15.23
SY89829UHY	576-2092-ND	2.5V/3.3V 1:10 Dual LVPECL Clock Driver	64-TQFP	13.39	12.06	10.70
SY89841UMG	576-2095-5-ND	Prec. 2:1 LVDS Runt Pulse Eliminator Mux	16-MLF	4.52	3.62	2.82
SY89842UMG	576-2096-5-ND	Prec. 2:1 CML Runt Pulse Eliminator Mux	16-MLF	4.52	3.62	2.82
SY89843UMG	576-2097-5-ND	Precision 2:1 LVPECL Runt Pulse Eliminator Multiplexer	24-MLF	5.42	4.34	3.38
SY89473UMG	576-1453-ND	Precision LVPECL 2:1 Multiplexer	24-MLF	5.62	4.50	3.80
SY89850UMG TR	576-2957-1-ND	Precision LP LVPECL Line Driver/Receiver	8-MLF	3.24	2.60	2.02
SY89850UMG TR	576-2957-2-ND	Precision LP LVPECL Line Driver/Receiver	8-MLF	1872.00/1,000		
SY89852UMG	576-2099-5-ND	2:1, Precision LP Diff. LVPECL Multiplexer	16-MLF	4.52	3.62	2.82
SY89855UMG	576-2101-5-ND	4:1, Precision LP Diff. LVPECL Multiplexer	32-MLF	5.14	4.12	3.47
SY89538LHY	576-2992-ND	3.3V, LVPECL/LVDS Programmable Synthesizer/Fanout Buffer	64-TQFP	22.92	21.40	19.87
SY89542UMG	576-1423-5-ND	2.5V, 3.2Gbps Dual, Diff. 2:1 LVDS Mux	32-MLF	5.14	4.12	3.47
SY89543LMG	576-1424-ND	3.3V, 3.2Gbps Dual, Diff. 2:1 LVDS Mux	32-MLF	5.14	4.12	3.47
SY89544UMG	576-1425-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Multiplexer	32-MLF	5.80	4.64	3.92
SY89545LMG	576-1426-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Multiplexer	32-MLF	5.80	4.64	3.92
SY89546UMG	576-1427-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Multiplexer	32-MLF	6.18	4.95	4.18
SY89547LMG	576-1428-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Multiplexer	32-MLF	6.18	4.95	4.18
SY89830UK4G	576-1430-ND	2.5V/3.3/5V 2.5GHz 1:4 PECL/ECL Clock Driver	16-TSSOP	5.22	4.18	3.53
SY89840UMG	576-1434-ND	Precision LVPECL Runt Pulse Eliminator 2:1 Mux	16-MLF	4.52	3.62	2.82
SY89844UMG	576-1454-ND	Prec. LVDS Runt Pulse Eliminator 2:1 Mux	24-MLF	5.42	4.34	3.38
SY89845UMG	576-1455-ND	Prec. CML Runt Pulse Eliminator 2:1 Mux	24-MLF	5.42	4.34	3.38
SY898533LKZ	576-3560-5-ND	3.3V, LVPECL 1:4 Fanout Buffer ***NEW!***	20-TSSOP	5.54	4.43	3.45

LATCHED DRIVERS

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC58P01YN	576-2404-ND	8-Bit Parallel-Input Protected Latched Driver	22-Dip	5.64	4.52	3.81
MIC58P01YV	576-2405-ND	8-Bit Parallel-Input Protected Latched Driver	28-PLCC	5.88	4.71	3.97
MIC58P01YWM	576-2406-ND	8-Bit Parallel-Input Protected Latched Driver	24-SOIC	5.64	4.52	3.81
MIC58P42YN	576-2407-ND	8-Bit Parallel-Input Protected Latched Driver	18-Dip	5.16	4.13	3.49
MIC58P42YWM	576-2408-ND	8-Bit Parallel-Input Protected Latched Driver	18-SOIC	5.16	4.13	3.49
MIC59P50YN	576-2409-ND	8-Bit Parallel-Input Protected Latched Driver	24-Dip	5.40	4.32	3.65
MIC59P50YWM	576-1312-ND	8-Bit Parallel-Input Protected Latched Driver	24-SOIC	5.40	4.32	3.65
MIC59P60YN	576-1313-ND	8-Bit Serial-In. Protected Latched Driver	20-Dip	5.48	4.39	3.70
MIC59P60YWM	576-1951-5-ND	8-Bit Serial-Input Protected Latched Driver	20-SOIC	5.48	4.39	3.70
MIC5800YM TR	576-1301-1-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	1.95	1.56	1.17
MIC5800YM TR	576-1301-2-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	2495.00/2,500		
MIC5800YN	576-1302-ND	4-Bit Parallel-Input Latched Driver	14-Dip	2.35	1.88	1.41
MIC5801YN	576-1303-ND	8-Bit Parallel-Input Latched Driver	22-Dip	3.40	2.72	2.12
MIC5801YV	576-1304-ND	8-Bit Parallel-Input Latched Driver	28-PLCC	3.53	2.83	2.20
MIC5801YWM	576-1305-ND	8-Bit Parallel-Input Latched Driver	24-SOIC	3.40	2.72	2.12
MIC5821YN	576-1306-ND	8-Bit Serial-Input Latched Driver	16-Dip	2.84	2.27	1.77
MIC5822YN	576-2400-ND	8-Bit Serial-Input Latched Driver	16-Dip	2.39	1.91	1.49
MIC5841YN	576-1307-ND	8-Bit Serial-Input Latched Driver	18-Dip	2.88	2.31	1.80
MIC5841YV	576-2401-ND	8-Bit Serial-Input Latched Driver	20-PLCC	3.02	2.42	1.88
MIC5841YWM	576-3385-5-ND	8-Bit Serial-Input Latched Driver	18-SOIC	2.88	2.31	1.80
MIC5841YWM TR	576-1308-1-ND	8-Bit Serial-Input Latched Driver	18-SOIC	2.88	2.31	1.80
MIC5841YWM TR	576-1308-2-ND	8-Bit Serial-Input Latched Driver	18-SOIC	1632.00/1,000		
MIC5842YN	576-1309-ND	8-Bit Serial-Input Latched Driver	18-Dip	3.06	2.45	1.91
MIC5842YV	576-1950-5-ND	8-Bit Serial-Input Latched Driver	20-PLCC	3.20	2.56	1.99
MIC5842YWM	576-2402-ND	8-Bit Serial-Input Latched Driver	18-SOIC	3.06	2.45	1.91
MIC5891YN	576-1310-ND	8-Bit Serial-Input Latched Source Driver	16-Dip	2.43	1.94	1.46
MIC5891YWM	576-2403-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	2.43	1.94	1.46
MIC5891YWM TR	576-1311-1-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	2.43	1.94	1.46
MIC5891YWM TR	576-1311-2-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	1261.00/1,000		

REGULATORS

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2574-5.0YN	576-1514-5-ND	52kHz Simple .5A Buck Regulator	8-Dip	2.88	2.31	1.80
LM2574YN	576-1515-5-ND	52kHz Simple .5A Buck Regulator	8-Dip	2.88	2.31	1.80
LM2575WU	576-1675-5-ND	52kHz Simple 1A Buck Regulator	TO-263-5	3.26	2.61	2.03
LM2575-5.0WT	576-1516-5-ND	52kHz Simple 1A Buck Regulator	TO-220-5	3.11	2.49	1.94
LM2575-5.0WU	576-1517-5-ND	52kHz Simple 1A Buck Regulator	TO-263-5	3.26	2.61	2.03
LM2575-12WU	576-2129-ND	52kHz Simple 1A Buck Regulator	TO-263-5	3.26	2.61	2.03
LM2575-12YN	576-3542-5-ND	52kHz Simple 1A Buck Reg. ***NEW!***	16-DIP	3.47	2.78	2.16
LM2576WT	576-1045-ND	52kHz Simple 3A Buck Regulator	TO-220-5	3.20	2.56	1.99
LM2576WU TR	576-1539-1-ND	52kHz Simple 3A Buck Regulator	TO-263-5	3.38	2.70	2.10
LM2576WU TR	576-1539-2-ND	52kHz Simple 3A Buck Regulator	TO-263-5	1462.50/750		
LM2576-5.0WT	576-1518-5-ND	52kHz Simple 3A Buck Regulator	TO-220-5	3.20	2.56	1.99
LM2576-5.0WU	576-2131-ND	52kHz Simple 3A Buck Regulator	TO-263-5	3.38	2.70	2.10
LM2576-12WU	576-2130-ND	52kHz Simple 3A Buck Regulator	TO-263-5	3.38	2.70	2.10
MIC38C42AYM	576-2287-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.35	1.88	1.41
MIC38C42AYMM	576-2288-ND	BiCMOS Current Mode PWM Controller	8-MSOP	2.27	1.82	1.42
MIC38C42YM	576-1772-5-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.25	1.80	1.35
MIC38C42YN	576-2289-ND	BiCMOS Current Mode PWM Controller	8-Dip	2.41	1.93	1.50
MIC38C43YM	576-1168-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.25	1.80	1.35
MIC38C43AYM	576-1773-5-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.35	1.88	1.41
MIC38C43AYMM	576-1774-5-ND	BiCMOS Current Mode PWM Controller	8-MSOP	2.27	1.82	1.42
MIC38C43YMM	576-1775-5-ND	BiCMOS Current Mode PWM Controller	8-MSOP	2.27	1.82	1.42
MIC38C43YN	576-2290-ND	BiCMOS Current Mode PWM Controller	8-Dip	2.41	1.93	1.50
MIC38C44-1YM	576-2291-ND	BiCMOS Current Mode PWM Controller	14-SOIC	2.52	2.02	1.57
MIC38C44AYM	576-2292-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.35	1.88	1.41
MIC38C44YM	576-1776-5-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.25	1.80	1.35
MIC38C44YN	576-2293-ND	BiCMOS Current Mode PWM Controller	8-Dip	2.41	1.93	1.50
MIC38C45-1YM	576-2294-ND	BiCMOS Current Mode PWM Controller	14-SOIC	2.52	2.02	1.57
MIC38C45AYM	576-2295-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.35	1.88	1.41
MIC38C45YM	576-1777-5-ND	BiCMOS Current Mode PWM Controller	8-SOIC	2.25	1.80	1.35
MIC38C45YN	576-2296-ND	BiCMOS Current Mode PWM Controller	8-Dip	2.41	1.93	1.50
MIC38HC42YM	576-1778-5-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	2.45	1.97	1.53
MIC38HC42YN	576-2297-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-Dip	2.93	2.34	1.82
MIC38HC43-1YM	576-2298-ND	BiCMOS 1A Current Mode PWM Ctrlr.	14-SOIC	2.97	2.38	1.85
MIC38HC43-1YN	576-2299-ND	BiCMOS 1A Current Mode PWM Ctrlr.	14-Dip	3.56	2.85	2.22
MIC38HC43YM	576-3373-5-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	2.45	1.97	1.53

REGULATORS

(Cont.)

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC38HC43YM TR	576-1169-1-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	2.45	1.97	1.53
MIC38HC43YM TR	576-1169-2-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	3432.50/2,500		
MIC38HC44YM	576-1779-5-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	2.45	1.97	1.53
MIC38HC44YN	576-2300-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-Dip	2.93	2.34	1.82
MIC38HC45-1YM	576-2301-ND	BiCMOS 1A Current Mode PWM Ctrlr.	14-SOIC	2.97	2.38	1.85
MIC38HC45YM	576-1519-5-ND	BiCMOS 1A Current Mode PWM Ctrlr.	8-SOIC	2.45	1.97	1.53
MIC2130-1YML TR	576-3092-1-ND	150kHz, PWM Sync. Buck Controller	16-MLF	3.83	3.06	2.38
MIC2130-1YML TR	576-3092-2-ND	150kHz, PWM Sync. Buck Controller	16-MLF	10625.00/5,000		
MIC2130-1YTSE	576-3093-5-ND	150kHz, PWM Sync. Buck Controller	16-eTSSOP	4.41	3.53	2.75
MIC2130-4YML TR	576-3094-1-ND	400kHz, PWM Sync. Buck Controller	16-MLF	4.12	3.30	2.57
MIC2130-4YML TR	576-3094-2-ND	400kHz, PWM Sync. Buck Controller	16-MLF	11440.00/5,000		
MIC2130-4YTSE	576-3095-5-ND	400kHz, PWM Sync. Buck Controller	16-eTSSOP	4.70	3.77	2.93
MIC2131-1YML TR	576-3096-1-ND	150kHz, PWM Sync. Buck Controller	16-MLF	4.01	3.21	2.50
MIC2131-1YML TR	576-3096-2-ND	150kHz, PWM Sync. Buck Controller	16-MLF	11125.00/5,000		
MIC2131-1YTSE	576-3097-5-ND	150kHz, PWM Sync. Buck Controller	16-eTSSOP	4.70	3.77	2.93
MIC2131-4YML TR	576-3098-1-ND	400kHz, PWM Sync. Buck Controller	16-MLF	4.70	3.77	2.93
MIC2131-4YML TR	576-3098-2-ND	400kHz, PWM Sync. Buck Controller	16-MLF	13065.00/5,000		
MIC2131-4YTSE	576-3099-5-ND	400kHz, PWM Sync. Buck Controller	16-eTSSOP	5.00	4.00	3.11
MIC2141YM5 TR	576-2597-1-ND	Adj., Micropower Boost Converter	SOT-23-5	2.15	1.72	1.29
MIC2141YM5 TR	576-2597-2-ND	Adj., Micropower Boost Converter	SOT-23-5	3303.00/3,000		
MIC2142YM5 TR	576-1062-1-ND	Adj., Micropower Boost Converter	SOT-23-5	1.93	1.54	1.16
MIC2145YML TR	576-2598-1-ND	High-Efficiency 2.5W Boost Converter	10-MLF	3.38	2.70	2.10
MIC2145YML TR	576-2598-2-ND	High-Efficiency 2.5W Boost Converter	10-MLF	9375.00/5,000		
MIC2145YMM TR	576-1540-1-ND	High-Efficiency 2.5W Boost Converter	8-MSOP	3.15	2.52	1.96
MIC2145YMM TR	576-1540-2-ND	High-Efficiency 2.5W Boost Converter	8-MSOP	4410.00/2,500		
MIC2155YML TR	576-3527-1-ND	500kHz, PWM Sync. Buck Controller ***NEW!***	32-MLF	3.42	2.74	2.13
MIC2155YML TR	576-3527-2-ND	500kHz, PWM Sync. Buck Controller ***NEW!***	32-MLF	1938.00/1,000		
MIC2156YML TR	576-3528-1-ND	300kHz, PWM Sync. Buck Controller ***NEW!***	32-MLF	3.42	2.74	2.13
MIC2156YML TR	576-3528-2-ND	300kHz, PWM Sync. Buck Controller ***NEW!***	32-MLF	1938.00/1,000		
MIC2159YMME	576-1588-ND	Adj., High Efficiency 400kHz, Sync. Buck Controller	10-MSOP	3.98	3.19	2.48
MIC2164-2YMM	576-3543-5-ND	600kHz, PWM Sync. Buck Ctrlr. ***NEW!***	10-MSOP	2.00	1.60	1.20
MIC2164-3YMM	576-3544-5-ND	1MHz, PWM Sync. Buck Ctrlr. ***NEW!***	10-MSOP	2.15	1.72	1.29
MIC2164YMM	576-3466-5-ND	300kHz, PWM Sync. Buck Controller ***NEW!***	10-MSOP	1.88	1.50	1.13
MIC2168AYMM	576-1707-5-ND	1MHz, PWM Sync. Buck Controller	10-MSOP	3.29	2.63	2.05
MIC2168YMM	576-1708-5-ND	1MHz, PWM Sync. Buck Controller	10-MSOP	3.29	2.63	2.05
MIC2169AYMM	576-1709-5-ND	500kHz PWM Sync. Buck Controller	10-MSOP	3.22	2.58	2.01
MIC2169BYMME	576-3545-5-ND	500kHz PWM Sync. Buck Ctrlr. ***NEW!***	10-MSOP	3.13	2.51	1.95
MIC2169YMM	576-1710-5-ND	500kHz PWM Sync. Buck Controller	10-MSOP	3.22	2.58	2.01
MIC2171WT	576-2150-ND	100kHz, 2.5A, Switching Regulator	TO-220-5	4.12	3.30	2.57
MIC2171WU	576-1063-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	4.28	3.42	2.66
MIC2171WU TR	576-1541-1-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	4.28	3.42	2.66
MIC2171WU TR	576-1541-2-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	1852.50/750		
MIC2172YM TR	576-1064-1-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	3.13	2.51	1.95
MIC2172YM TR	576-1064-2-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	4377.50/2,500		
MIC2172YN	576-2151-ND	100kHz, 1.25A, Switching Regulator	8-Dip	3.76	3.01	2.34
MIC2174-1YMM	576-3546-5-ND	500kHz, PWM Buck Controller ***NEW!***	10-MSOP	2.00	1.60	1.20
MIC2177YWM	576-1065-ND	Adj., 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2177-3.3YWM	576-2152-ND	3.3V, 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2177-3.3YWM TR	576-1542-1-ND	Adj., 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2177-3.3YWM TR	576-1542-2-ND	Adj., 2.5A Sync. Buck Regulator	20-SOIC	5175.00/1,000		
MIC2177-5.0YWM	576-2153-ND	5V, 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2178YWM	576-1066-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOIC	8.28	6.63	5.59
MIC2178-3.3YWM	576-2154-ND	3.3V, 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2178-5.0YWM	576-2155-ND	5V, 2.5A Sync. Buck Regulator	20-SOIC	8.28	6.63	5.59
MIC2179-3.3YSM	576-1711-5-ND	3.3V, 1.5A Sync. Buck Regulator	20-SSOP	7.52	6.02	5.08
MIC2179-5.0YSM	576-2156-ND	5V, 1.5A Sync. Buck Regulator	20-SSOP	7.52	6.02	5.08
MIC2179YSM	576-1067-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	7.52	6.02	5.08
MIC2179YSM TR	576-1560-1-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	7.52	6.02	5.08
MIC2179YSM TR	576-1560-2-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	4700.00/1,000		
MIC2182-3.3YM	576-1712-5-ND	3.3V, Synchronous Buck Controller	16-SOIC	5.40	4.32	3.36
MIC2182-3.3YSM	576-2157-ND	3.3V, Synchronous Buck Controller	16-SSOP	5.02	4.02	3.39
MIC2182-5.0YM	576-2158-ND	5.0V, Synchronous Buck Controller	16-SOIC	5.40	4.32	3.36
MIC2182-5.0YSM	576-2159-ND	5.0V, Synchronous Buck Controller	16-SSOP	5.02	4.02	3.39
MIC2182YM	576-1068-ND	Adj., High-Eff.Sync. Buck Controller	16-SOIC	5.40	4.32	3.36
MIC2182YSM	576-1069-ND	Adj., High-Eff.Sync. Buck Controller	16-SSOP	5.02	4.02	3.39
MIC2182YSM TR	576-1544-1-ND	Adj., High-Eff.Sync. Buck Controller	16-SSOP	5.02	4.02	3.39
MIC2182YSM TR	576-1544-2-ND	Adj., High-Eff.Sync. Buck Controller	16-SSOP	3138.00/1,000		
MIC2183YQS	576-2160-ND	Adj., Low Voltage Sync. Buck Controller	16-QSOP	5.56	4.45	3.46
MIC2184YM	576-2161-ND	Adj., Low Voltage Buck PWM Controller	16-SOIC	5.56	4.45	3.46
MIC2184YQS	576-1713-5-ND	Adj., Low Voltage Buck PWM Controller	16-QSOP	5.36	4.29	3.62
MIC2185YM	576-1714-5-ND	Adj., PWM Boost Sync. Buck Controller	16-SOIC	5.56	4.45	3.46
MIC2185YQS	576-2162-ND	Adj., PWM Boost Sync. Buck Controller	16-QSOP	5.36	4.29	3.62
MIC2186YM	576-1715-5-ND	Adj., Low Voltage PWM Controller	16-SOIC	5.56	4.45	3.46
MIC2193YM TR	576-1545-1-ND	Adj., 400kHz, Sync. Buck Controller	8-SOIC	4.48	3.59	2.79
MIC2193YM TR	576-1545-2-ND	Adj., 400kHz, Sync. Buck Controller	8-SOIC	6267.50/2,500		
MIC2194YM	576-1716-5-ND	400kHz Synchronous Buck Controller	8-SOIC	4.48	3.59	2.79
MIC2196YM	576-1717-5-ND	400kHz Synchronous Buck Controller	8-SOIC	4.48	3.59	2.79
MIC2198YML TR	576-2599-1-ND	500kHz Synchronous Buck Controller	12-MLF	4.93	3.95	3.07
MIC2198YML TR	576-2599-2-ND	500kHz Synchronous Buck Controller	12-MLF	13690.00/5,000		
MIC2199YML TR	576-1718-1-ND	300kHz Synchronous Buck Converter	12-MLF	4.82	3.86	3.00
MIC2199YML TR	576-1718-2-ND	300kHz Synchronous Buck Converter	12-MLF	13375.00/5,000		
MIC2202YML TR	576-2600-1-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	2.75	2.20	1.71
MIC2202YML TR	576-2600-2-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	7625.00/5,000		
MIC2202YMM	576-1719-5-ND	2MHz PWM Synchronous Buck Reg.	10-MSOP	2.50	2.00	1.56
MIC2203YMM	576-1720-5-ND	1MHz PWM Synchronous Buck Reg.	10-MSOP	2.50	2.00	1.56
MIC2204YML TR	576-1070-1-ND	Adj., High-Eff. 2MHz Sync. Buck Ctrlr.	10-MLF	3.22	2.58	2.01
MIC2204YML TR	576-1070-2-ND	Adj., High-Eff. 2MHz Sync. Buck Ctrlr.	10-MLF	8940.00/5,000		
MIC2204YMM	576-1721-5-ND	2MHz PWM Sync. Buck Converter	10-MSOP	2.99	2.40	1.87
MIC2204YMM TR	576-1071-1-ND	Adj., High-Eff. 2MHz Sync. Buck Ctrlr.	10-MSOP	2.99	2.40	1.87
MIC2205-1.58YML TR	576-1722-1-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	2.36	1.89	1.47
MIC2205-1.58YML TR	576-1722-2-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	6565.00/5,000		
MIC2205YML TR	576-1072-1-ND	Adj., 2MHz PWM Sync. Buck Reg.	10-MLF	2.36	1.89	1.47
MIC2205YML TR	576-1072-2-ND	Adj., 2MHz PWM Sync. Buck Reg.	10-MLF	6565.00/5,000		
MIC2206-1.2YML TR	576-2601-1-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	3.58	2.87	2.23
MIC2206-1.2YML TR	576-2601-2-ND	2MHz PWM Synchronous Buck Reg.	10-MLF	9940.00/5,000		
MIC2207YML TR	576-1441-1-ND	2MHz, 3A PWM Buck Regulator	12-MLF	3.76	3.01	2.34
MIC2207YML TR	576-1441-2-ND	2MHz, 3A PWM Buck Regulator	12-MLF	10440.00/5,000		
MIC2208YML TR	576-1723-1-ND	1MHz PWM Synchronous Buck Reg.	12-MLF	3.76	3.01	2.34
MIC2208YML TR	576-1723-2-ND	1MHz PWM Synchronous Buck Reg.	12-MLF	10440.00/5,000		
MIC2224YML TR	576-2655-1-ND	2MHz PWM Buck Converter	10-MLF	4.48	3.59	2.79
MIC2224YML TR	576-2655-2-ND	2MHz PWM Buck Converter	10-MLF	12440.00/5,000		

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(Continued)

Micrel	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
MIC2225-4KYMT TR	576-3100-1-ND	2MHz, 1.2V/2.6V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-4KYMT TR	576-3100-2-ND	2MHz, 1.2V/2.6V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2225-4OYMT TR	576-3101-1-ND	2MHz, 1.2V/2.9V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-4OYMT TR	576-3101-2-ND	2MHz ,1.2V/2.9V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2225-G4YMT TR	576-3102-1-ND	2MHz, 1.8V/1.2V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-G4YMT TR	576-3102-2-ND	2MHz, 1.8V/1.2V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2225-GFYMT TR	576-3103-1-ND	2MHz, 1.8V/1.5V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-GFYMT TR	576-3103-2-ND	2MHz, 1.8V/1.5V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2225-GJYMT TR	576-3104-1-ND	2MHz, 1.8V/2.5V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-GJYMT TR	576-3104-2-ND	2MHz, 1.8V/2.5V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2225-GMYMT TR	576-3105-1-ND	2MHz, 1.8V/2.8V PWM Sync. Buck Reg.	10-TMLF	2.35	1.88	1.41
MIC2225-GMYMT TR	576-3105-2-ND	2MHz, 1.8V/2.8V PWM Sync. Buck Reg.	10-TMLF	5875.00/5,000		
MIC2230-AAYML TR	576-3027-1-ND	Adj. Dual Sync. Step-Down DC/DC Reg.	12-MLF	4.19	3.35	2.61
MIC2230-AAYML TR	576-3027-2-ND	Adj. Dual Sync. Step-Down DC/DC Reg.	12-MLF	11625.00/5,000		
MIC2230-G4YML TR	576-3275-1-ND	1.8V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	4.19	3.35	2.61
MIC2230-G4YML TR	576-3275-2-ND	1.8V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	11625.00/5,000		
MIC2230-GFHYML TR	576-3030-1-ND	1.8V/1.575V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	4.19	3.35	2.61
MIC2230-GFHYML TR	576-3030-2-ND	1.8V/1.575V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	11625.00/5,000		
MIC2230-GSYML TR	576-3276-1-ND	1.8V/3.3V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	4.19	3.35	2.61
MIC2230-GSYML TR	576-3276-2-ND	1.8V/3.3V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	11625.00/5,000		
MIC2230-J4YML TR	576-3277-1-ND	2.5V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	4.19	3.35	2.61
MIC2230-J4YML TR	576-3277-2-ND	2.5V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	11625.00/5,000		
MIC2230-S4YML TR	576-3278-1-ND	3.3V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	4.19	3.35	2.61
MIC2230-S4YML TR	576-3278-2-ND	3.3V/1.2V Dual Synchronous Step-Down DC/DC Regulator	12-MLF	11625.00/5,000		
MIC2230-SSYML TR	576-3467-1-ND	3.3V Dual Sync. Step-Down DC/DC Regulator ***NEW!***	12-MLF	4.19	3.35	2.61
MIC2230-SSYML TR	576-3467-2-ND	3.3V Dual Sync. Step-Down DC/DC Regulator ***NEW!***	12-MLF	11625.00/5,000		
MIC2238-AAYML TR	576-1646-1-ND	2.5MHz Dual Phase Adj. PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-AAYML TR	576-1646-2-ND	2.5MHz Dual Phase Adj. PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2238-G4YML TR	576-3279-1-ND	2.5MHz Dual Phase 1.8V/1.2V PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-G4YML TR	576-3279-2-ND	2.5MHz Dual Phase 1.8V/1.2V PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2238-GSYML TR	576-3280-1-ND	2.5MHz Dual Phase 1.8V/3.3V PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-GSYML TR	576-3280-2-ND	2.5MHz Dual Phase 1.8V/3.3V PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2238-J4YML TR	576-3281-1-ND	2.5MHz Dual Phase 2.5V/1.2V PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-J4YML TR	576-3281-2-ND	2.5MHz Dual Phase 2.5V/1.2V PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2238-S4YML TR	576-3282-1-ND	2.5MHz Dual Phase 3.3V/1.2V PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-S4YML TR	576-3282-2-ND	2.5MHz Dual Phase 3.3V/1.2V PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2238-SSYML TR	576-3468-1-ND	2.5MHz Dual Phase 3.3V PWM Buck Regulator ***NEW!***	12-MLF	4.01	3.21	2.50
MIC2238-SSYML TR	576-3468-2-ND	2.5MHz Dual Phase 3.3V PWM Buck Regulator ***NEW!***	12-MLF	11125.00/5,000		
MIC2245YML TR	576-1499-1-ND	4MHz PWM Sync. Buck Regulator	10-MLF	2.36	1.89	1.47
MIC2250YML TR	576-3302-1-ND	Adj., High Eff. Low EMI Boost Reg.	8-MLF	1.48	1.18	.89
MIC2250YML TR	576-3302-2-ND	Adj., High Eff. Low EMI Boost Reg.	8-MLF	3690.00/5,000		
MIC2285AYMT TR	576-2973-1-ND	8MHz PWM Sync. Buck Regulator	10-TMLF	1.88	1.50	1.13
MIC2285AYMT TR	576-2973-2-ND	8MHz PWM Sync. Buck Regulator	10-TMLF	4690.00/5,000		
MIC2285YML TR	576-1498-1-ND	8MHz PWM Sync. Buck Regulator	10-MLF	3.51	2.81	2.19
MIC2285YML TR	576-1498-2-ND	8MHz PWM Sync. Buck Regulator	10-MLF	9750.00/5,000		
MIC2290YML TR	576-1076-1-ND	Adj., 2x2mm PWM Boost Regulator	8-MLF	1.58	1.26	.95
MIC2295YD5 TR	576-1080-1-ND	High Power Density 1.2A Boost Reg.	5-TSOT	2.38	1.90	1.43
MIC2295YML TR	576-2658-1-ND	1.2A Boost Regulator	8-MLF	2.36	1.89	1.47
MIC2295YML TR	576-2658-2-ND	1.2A Boost Regulator	8-MLF	6565.00/5,000		
MIC2296YD5 TR	576-2659-1-ND	1.2A Boost Regulator	TSOT-23-5	2.38	1.90	1.43
MIC2296YD5 TR	576-2659-2-ND	1.2A Boost Regulator	TSOT-23-5	3648.00/3,000		
MIC2296YML TR	576-2660-1-ND	1.2A Boost Regulator	8-MLF	2.36	1.89	1.47
MIC2296YML TR	576-2660-2-ND	1.2A Boost Regulator	8-MLF	6565.00/5,000		
MIC23150-CYMT TR	576-3400-1-ND	4MHz, 2A Buck Regulator	8-TMLF	2.36	1.89	1.47
MIC23150-CYMT TR	576-3400-2-ND	4MHz, 2A Buck Regulator	8-TMLF	6565.00/5,000		
MIC2570-1YM	576-2190-ND	20kHz, Two Cell Switching Regulator	8-SOIC	3.26	2.61	2.03
MIC2571-1YMM	576-2192-ND	20kHz, Single Cell Switching Reg.	8-MSOP	3.74	2.99	2.33
MIC2571-2YMM	576-2193-ND	20kHz, Single Cell Switching Reg.	8-MSOP	3.74	2.99	2.33
MIC2601YML TR	576-3283-1-ND	1.2MHz, 1.2A Boost Switching Reg.	8-MLF	2.54	2.04	1.59
MIC2601YML TR	576-3283-2-ND	1.2MHz, 1.2A Boost Switching Reg.	8-MLF	7065.00/5,000		
MIC2602YML TR	576-3284-1-ND	2MHz, 1.2A Boost Switching Regulator	8-MLF	2.70	2.16	1.68
MIC2602YML TR	576-3284-2-ND	2MHz, 1.2A Boost Switching Regulator	8-MLF	7500.00/5,000		
MIC2605YML TR	576-3258-1-ND	1.2MHz, 0.5A, Boost Switching Reg.	8-MLF	2.54	2.04	1.59
MIC2605YML TR	576-3258-2-ND	1.2MHz, 0.5A, Boost Switching Reg.	8-MLF	7065.00/5,000		
MIC2606YML TR	576-3259-1-ND	2MHz, 0.5A, Boost Switching Regulator	8-MLF	2.70	2.16	1.68
MIC2606YML TR	576-3259-2-ND	2MHz, 0.5A, Boost Switching Regulator	8-MLF	7500.00/5,000		
MIC3172YM	576-1160-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	3.13	2.51	1.95
MIC3172YN	576-2255-ND	100kHz, 1.25A, Switching Regulator	8-Dip	3.76	3.01	2.34
MIC3385-1.5YHL TR	576-3110-1-ND	8MHz, 1.5V, Inductorless Buck Reg.	14-MLF	4.03	3.23	2.51
MIC3385-1.5YHL TR	576-3110-2-ND	8MHz, 1.5V, Inductorless Buck Reg.	14-MLF	11190.00/5,000		
MIC4043YM4 TR	576-2715-1-ND	Low Voltage Shunt Regulator	SOT-143	.87	.73	.58
MIC4043YM4 TR	576-2715-2-ND	Low Voltage Shunt Regulator	SOT-143	1131.00/3,000		
MIC4574-3.3YN	576-2338-ND	3.3V, 200kHz Simple .5A Buck Reg.	8-Dip	3.15	2.52	1.96
MIC4574-5.0YN	576-1561-5-ND	5V, 200kHz Simple .5A Buck Regulator	8-Dip	3.15	2.52	1.96
MIC4574YN	576-2339-ND	Adj., 200kHz Simple .5A Buck Reg.	8-Dip	3.15	2.52	1.96
MIC4575-3.3WT	576-2340-ND	3.3V, 200kHz Simple 1A Buck Reg.	TO-220-5	3.42	2.74	2.13
MIC4575-3.3WU	576-2341-ND	3.3V, 200kHz Simple 1A Buck Reg.	TO-263-5	3.58	2.87	2.23
MIC4575-5.0WT	576-1531-5-ND	5V, 200kHz Simple 1A Buck Reg.	TO-220-5	3.42	2.74	2.13
MIC4575-5.0WU	576-1216-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	3.58	2.87	2.23
MIC4575-5.0WU TR	576-1549-1-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	3.58	2.87	2.23
MIC4575-5.0WU TR	576-1549-2-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	1550.25/750		
MIC4575WT	576-2342-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-220-5	3.42	2.74	2.13
MIC4575WU	576-1217-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	3.58	2.87	2.23
MIC4575WU TR	576-1550-1-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	3.58	2.87	2.23
MIC4575WU TR	576-1550-2-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	1550.25/750		
MIC4576WT	576-1218-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-220-5	3.53	2.83	2.20
MIC4576WU	576-3378-5-ND	Adj., 200kHz Simple 3A Buck Regulator	TO-263-5	3.69	2.96	2.30
MIC4576WU TR	576-1219-1-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.69	2.96	2.30
MIC4576WU TR	576-1219-2-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	1599.00/750		
MIC4576-3.3WT	576-2343-ND	3.3V, 200kHz Simple 3A Buck Reg.	TO-220-5	3.53	2.83	2.20
MIC4576-3.3WU	576-1532-5-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.69	2.96	2.30
MIC4576-3.3WU TR	576-1551-1-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.69	2.96	2.30
MIC4576-3.3WU TR	576-1551-2-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	1599.00/750		
MIC4576-5.0WU	576-1800-5-ND	5V, 200kHz Simple 3A Buck Reg.	TO-263-5	3.69	2.96	2.30
MIC4680-3.3YM	576-1220-ND	3.3V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680-3.3YM TR	576-1552-1-ND	3.3V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680-3.3YM TR	576-1552-2-ND	3.3V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	5135.00/2,500		
MIC4680-5.0YM	576-3379-5-ND	5V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680-5.0YM TR	576-1221-1-ND	5V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680-5.0YM TR	576-1221-2-ND	5V, 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	5135.00/2,500		
MIC4680YM	576-2344-ND	Adj., 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680YM TR	576-1222-1-ND	Adj., 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	3.67	2.94	2.29
MIC4680YM TR	576-1222-2-ND	Adj., 1A, 200kHz SuperSwitcher Buck Regulator	8-SOIC	5135.00/2,500		
MIC4681YM	576-1801-5-ND	Adj., 2A 200kHz SuperSwitcher Buck Regulator	8-SOIC	4.43	3.55	2.76
MIC4682YM	576-1802-5-ND	Adj., Precision Current Limit SuperSwitcher Buck Regulator	8-SOIC	5.58	4.47	3.77
MIC4684YM	576-1223-ND	Adj., 2A High-Efficiency SuperSwitcher Buck Regulator	8-SOIC	4.05	3.24	2.52
MIC4684YM TR	576-1553-1-ND	Adj., 2A High-Efficiency SuperSwitcher Buck Regulator	8-SOIC	4.05	3.24	2.52
MIC4684YM TR	576-1553-2-ND	Adj., 2A High-Efficiency SuperSwitcher Buck Regulator	8-SOIC	5670.00/2,500		
MIC4685WR	576-1224-ND	Adj. 3A SPAK SuperSwitcher Buck Reg.	7-SPAK	4.70	3.77	2.93
MIC4685WR TR	576-1554-1-ND	Adj. 3A SPAK SuperSwitcher Buck Reg.	7-SPAK	4.70	3.77	2.93
MIC4685WR TR	576-1554-2-ND	Adj. 3A SPAK SuperSwitcher Buck Reg.	7-SPAK	2037.75/750		
MIC4690YM	576-1225-ND	Adj., 500kHz, 1A SuperSwitcher Buck Regulator	8-SOIC	3.96	3.17	2.47
MIC4720YML TR	576-2720-1-ND	2A, 2MHz, Integrated Switch Buck Reg.	12-MLF	3.29	2.63	2.05
MIC4720YML TR	576-2720-2-ND	2A, 2MHz, Integrated Switch Buck Reg.	12-MLF	9125.00/5,000		
MIC4720YMME	576-1654-5-ND	2A, 2MHz, Integrated Switch Buck Reg.	10-MSOP	3.51	2.81	2.19
MIC4720YMME TR	576-3313-1-ND	2A, 2MHz, Integrated Switch Buck Reg.	10-MSOP	3.51	2.81	2.19
MIC4720YMME TR	576-3313-2-ND	2A, 2MHz, Integrated Switch Buck Reg.	10-MSOP	4915.00/2,500		
MIC4721YMM	576-1655-5-ND	1.5A, 2MHz, Integ. Switch Buck Reg.	10-MSOP	2.45	1.97	1.53
MIC4722YML TR	576-1591-1-ND	3A, 2.7MHz, PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC4722YML TR	576-1591-2-ND	3A, 2.7MHz, PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC4723YML TR	576-1656-1-ND	3A, 2MHz Integrated Switch Buck Reg.	12-MLF	3.62	2.90	2.26
MIC4723YML TR	576-1656-2-ND	3A, 2MHz Integrated Switch Buck Reg.	12-MLF	10065.00/5,000		
MIC4723YMME	576-3553-5-ND	3A, 2MHz Integrated Switch Buck Reg. ***NEW!***	10-eMSOP	4.05	3.24	2.52
MIC4724YMME	576-3120-5-ND	3A, 2MHz Integrated Switch Buck Reg.	10-MSOP	4.05	3.24	2.52
MIC4742YML TR	576-3354-1-ND	2A, 2MHz Integrated Switch Dual PWM Buck Regulator	16-MLF	4.43	3.55	2.76
MIC4742YML TR	576-3354-2-ND	2A, 2MHz Integrated Switch Dual PWM Buck Regulator	16-MLF	12315.00/5,000		
MIC4742YTSE	576-3355-5-ND	2A, 2MHz Integrated Switch Dual PWM Buck Regulator	16-TSSOP	4.91	3.93	3.06
MIC4744YML TR	576-3356-1-ND	2A, 4MHz Integrated Switch Dual PWM Buck Regulator	16-MLF	5.22	4.18	3.53
MIC4744YML TR	576-3356-2-ND	2A, 4MHz Integrated Switch Dual PWM Buck Regulator	16-MLF	15920.00/5,000		
MIC4744YTSE	576-3357-5-ND	2A, 4MHz Integrated Switch Dual PWM Buck Regulator	16-TSSOP	5.64	4.52	3.81
MIC5162YMM	576-1820-5-ND	Dual, DDR2/3 Regulator Controller	10-MSOP	2.05	1.64	1.23
MIC5163YMM	576-3482-5-ND	Dual, DDR3 GDDR3/4/5 Regulator Controller ***NEW!***	10-MSOP	3.15	2.52	1.96
MIC5225-1.5YM5 TR	576-3013-1-ND	1.5V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-1.5YM5 TR	576-3013-2-ND	1.5V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-1.8YM5 TR	576-3017-1-ND	1.8V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-1.8YM5 TR	576-3017-2-ND	1.8V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-2.5YM5 TR	576-3005-1-ND	2.5V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-2.5YM5 TR	576-3005-2-ND	2.5V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-2.7YM5 TR	576-2978-1-ND	2.7V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-2.7YM5 TR	576-2978-2-ND	2.7V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-3.0YM5 TR	576-2979-1-ND	3.0V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-3.0YM5 TR	576-2979-2-ND	3.0V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-3.3YM5 TR	576-2980-1-ND	3.3V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-3.3YM5 TR	576-2980-2-ND	3.3V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225-5.0YM5 TR	576-2999-1-ND	5.0V High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225-5.0YM5 TR	576-2999-2-ND	5.0V High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5225YM5 TR	576-2998-1-ND	Adj. High Input Voltage, Low IQ Reg.	SOT-23-5	.87	.73	.58
MIC5225YM5 TR	576-2998-2-ND	Adj. High Input Voltage, Low IQ Reg.	SOT-23-5	1131.00/3,000		
MIC5326-2.8YMT TR	576-3264-1-ND	2.8V, 150mA, Low Operating Current LDO Regulator	4-TMLF	.84	.70	.56
MIC5326-2.8YMT TR	576-3264-2-ND	2.8V, 150mA, Low Operating Current LDO Regulator	4-TMLF	1785.00/5,000		
MIC5327-1.8YMT TR	576-3265-1-ND	1.8V, 300mA, Low Quiescent Current LDO Regulator	4-TMLF	.87	.73	.58
MIC5327-1.8YMT TR	576-3265-2-ND	1.8V, 300mA, Low Quiescent Current LDO Regulator	4-TMLF	1850.00/5,000		
MIC5327-2.8YMT TR	576-3266-1-ND	2.8V, 300mA, Low Quiescent Current LDO Regulator	4-TMLF	.87	.73	.58
MIC5327-2.8YMT TR	576-3266-2-ND	2.8V, 300mA, Low Quiescent Current LDO Regulator	4-TMLF	1850.00/5,000		
MIC5337-1.8YMT TR	576-3267-1-ND	1.8V, 300mA, Low IQ Regulator	4-TMLF	.93	.78	.62
MIC5337-1.8YMT TR	576-3267-2-ND	1.8V, 300mA, Low IQ Regulator	4-TMLF	1975.00/5,000		
MIC5337-2.8YMT TR	576-3268-1-ND	2.8V, 300mA, Low IQ Regulator	4-TMLF	.93	.78	.62
MIC5337-2.8YMT TR	576-3268-2-ND	2.8V, 300mA, Low IQ Regulator	4-TMLF	1975.00/5,000		
MIC22200YML TR	576-3301-1-ND	Adj. Voltage, 2A Integrated Switch Sync. Buck Regulator	12-MLF	2.93	2.34	1.82
MIC22200YML TR	576-3301-2-ND	Adj. Voltage, 2A Integrated Switch Sync. Buck Regulator	12-MLF	8125.00/5,000		

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(Continued)

REGULATORS

MICREL Innovation Through Technology™ Digi-Reel® (Cont.)

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC22400YTSE	576-3519-5-ND	4A Integrated Switch Synchronous Buck Regulator ***NEW!***	20-TSSOP	5.58	4.47	3.77
MIC22601YML TR	576-3469-1-ND	Adj. Voltage, 6A Integrated Switch Sync. Buck Regulator ***NEW!***	24-MLF	6.12	4.90	4.14
MIC22601YML TR	576-3469-2-ND	Adj. Voltage, 6A Integrated Switch Sync. Buck Regulator ***NEW!***	24-MLF	18665.00/5,000		
MIC22700YML TR	576-3444-1-ND	Adj. Voltage, 7A Integrated Switch Sync. Buck Regulator ***NEW!***	24-MLF	7.40	5.92	5.00
MIC22700YML TR	576-3444-2-ND	Adj. Voltage, 7A Integrated Switch Sync. Buck Regulator ***NEW!***	24-MLF	22570.00/5,000		
MIC23030-CYMT TR	576-3520-1-ND	8MHz, 400mA PWM Synchronous Buck Regulator, Hyperlight Load™ ***NEW!***	6-TMLF	1.45	1.16	.87
MIC23030-CYMT TR	576-3520-2-ND	8MHz, 400mA PWM Synchronous Buck Regulator, Hyperlight Load™ ***NEW!***	6-TMLF	3625.00/5,000		
MIC23030-FYMT TR	576-3365-1-ND	8MHz, 400mA PWM Synchronous Buck Regulator, HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23030-FYMT TR	576-3365-2-ND	8MHz, 400mA PWM Synchronous Buck Regulator, HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23030-GYMT TR	576-3366-1-ND	8MHz, 400mA PWM Syncronous Buck Regulator, HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23030-GYMT TR	576-3366-2-ND	8MHz, 400mA PWM Synchronous Buck Regulator, with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23150-GYMT TR	576-3303-1-ND	4MHz, 1.5A PWM Sync. Buck Regulator	8-MLF	2.36	1.89	1.47
MIC23150-GYMT TR	576-3303-2-ND	4MHz, 1.5A PWM Sync. Buck Regulator	8-MLF	6565.00/5,000		
MIC23150-SYMT TR	576-3314-1-ND	4MHz, 1.5A PWM Buck Regulator with HyperLight Load™	8-TMLF	2.36	1.89	1.47
MIC23150-SYMT TR	576-3314-2-ND	4MHz, 1.5A PWM Buck Regulator with HyperLight Load™	8-TMLF	6565.00/5,000		
MIC23250-3BYMT TR	576-3255-1-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	2.72	2.18	1.70
MIC23250-3BYMT TR	576-3255-2-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	7565.00/5,000		
MIC23250-AAYMT TR	576-3315-1-ND	4MHz, Dual 400mA Sync. Buck Reg.	12-TMLF	2.72	2.18	1.70
MIC23250-AAYMT TR	576-3315-2-ND	4MHz, Dual 400mA Sync. Buck Reg.	12-TMLF	7565.00/5,000		
MIC23250-C4YMT TR	576-3256-1-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	2.72	2.18	1.70
MIC23250-C4YMT TR	576-3256-2-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	7565.00/5,000		
MIC23250-S4YMT TR	576-3561-1-ND	4MHz, Dual 400mA Sync. Buck Reg. ***NEW!***	10-TMLF	2.72	2.18	1.70
MIC23250-S4YMT TR	576-3561-2-ND	4MHz, Dual 400mA Sync. Buck Reg. ***NEW!***	10-TMLF	7565.00/5,000		
MIC23250-SKYMT TR	576-3316-1-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	2.72	2.18	1.70
MIC23250-SKYMT TR	576-3316-2-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	7565.00/5,000		
MIC23250-W4YMT TR	576-3257-1-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	2.72	2.18	1.70
MIC23250-W4YMT TR	576-3257-2-ND	4MHz, Dual 400mA Sync. Buck Reg.	10-TMLF	7565.00/5,000		
MIC22400YML TR	576-3078-1-ND	4MHz, 4A Integrated Switch Synchronous Buck Regulator	20-MLF	5.32	4.26	3.60
MIC22400YML TR	576-3078-2-ND	4MHz, 4A Integrated Switch Synchronous Buck Regulator	20-MLF	16225.00/5,000		
MIC22600YML TR	576-3003-1-ND	1MHz, 6A Integrated Switch Synchronous Buck Regulator	24-MLF	5.60	4.48	3.78
MIC22600YML TR	576-3003-2-ND	1MHz, 6A Integrated Switch Synchronous Buck Regulator	24-MLF	17080.00/5,000		
MIC23030-4YMT TR	576-3243-1-ND	8MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23030-4YMT TR	576-3243-2-ND	8MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23030-AYMT TR	576-3244-1-ND	8MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23030-AYMT TR	576-3244-2-ND	8MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23031-4YMT TR	576-3106-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23031-4YMT TR	576-3106-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23031-AYMT TR	576-3107-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23031-AYMT TR	576-3107-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23031-CYMT TR	576-3245-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23031-CYMT TR	576-3245-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23031-FYMT TR	576-3246-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23031-FYMT TR	576-3246-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23031-GYMT TR	576-3247-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	1.45	1.16	.87
MIC23031-GYMT TR	576-3247-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	6-TMLF	3625.00/5,000		
MIC23050-GYML TR	576-2974-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.65	1.32	.99
MIC23050-GYML TR	576-2974-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4125.00/5,000		
MIC23050-4YML TR	576-1647-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.65	1.32	.99
MIC23050-SYML TR	576-3351-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.65	1.32	.99
MIC23050-SYML TR	576-3351-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4125.00/5,000		
MIC23051-16YML TR	576-1648-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.75	1.40	1.05
MIC23051-16YML TR	576-1648-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4375.00/5,000		
MIC23051-945YML TR	576-3022-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.75	1.40	1.05
MIC23051-945YML TR	576-3022-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4375.00/5,000		
MIC23051-C4YML TR	576-3011-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.75	1.40	1.05
MIC23051-C4YML TR	576-3011-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4375.00/5,000		
MIC23051-CGYML TR	576-3015-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	1.75	1.40	1.05
MIC23051-CGYML TR	576-3015-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-MLF	4375.00/5,000		
MIC23150-4YMT TR	576-3352-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-TMLF	2.36	1.89	1.47
MIC23150-4YMT TR	576-3352-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	8-TMLF	6565.00/5,000		

REGULATORS

MICREL Innovation Through Technology™ Digi-Reel® (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC23250-G4YMT TR	576-3034-1-ND	4MHz, Dual 400mA Synchronous Buck Regulator with HyperLight Load™	10-MLF	2.72	2.18	1.70
MIC23250-G4YMT TR	576-3034-2-ND	4MHz, Dual 400mA Synchronous Buck Regulator with HyperLight Load™	10-MLF	7565.00/5,000		
MIC23250-GFHYMT TR	576-3025-1-ND	4MHz, Dual 400mA Synchronous Buck Regulator with HyperLight Load™	10-MLF	2.72	2.18	1.70
MIC23250-GFHYMT TR	576-3025-2-ND	4MHz, Dual 400mA Synchronous Buck Regulator with HyperLight Load™	10-MLF	7565.00/5,000		
MIC33050-4YHL TR	576-3044-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-MLF	2.81	2.25	1.75
MIC33050-4YHL TR	576-3044-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-MLF	7815.00/5,000		
MIC33050-CYHL TR	576-3532-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™ ***NEW!***	12-MLF	2.81	2.25	1.75
MIC33050-CYHL TR	576-3532-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™ ***NEW!***	12-MLF	7815.00/5,000		
MIC33050-GYHL TR	576-3040-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-MLF	2.81	2.25	1.75
MIC33050-GYHL TR	576-3040-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-MLF	7815.00/5,000		
MIC33050-SYHL TR	576-3353-1-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-TMLF	2.81	2.25	1.75
MIC33050-SYHL TR	576-3353-2-ND	4MHz, PWM Buck Regulator with HyperLight Load™	12-TMLF	7815.00/5,000		

LDO REGULATORS

MICREL Innovation Through Technology™ Digi-Reel®

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP2951-02YM	576-1051-ND	Adj., 100mA LDO Voltage Regulator	8-SOIC	1.26	1.05	.84
LP2951-03YM	576-1052-ND	Adj., 100mA LDO Voltage Regulator	8-SOIC	1.14	.95	.76
MAQ5280YME	576-3274-5-ND	Adj., 25mA LDO Regulator	8-SOIC	2.36	1.89	1.47
MIC2211-AAYML TR	576-2602-1-ND	Adj. Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-AAYML TR	576-2602-2-ND	Adj. Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-DLYML TR	576-2603-1-ND	1.85V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-DLYML TR	576-2603-2-ND	1.85V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-FMYML TR	576-2604-1-ND	1.5V/2.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-FMYML TR	576-2604-2-ND	1.5V/2.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GJYML TR	576-2605-1-ND	1.8V/2.5V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GJYML TR	576-2605-2-ND	1.8V/2.5V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GKYML TR	576-2606-1-ND	1.8V/2.6V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GKYML TR	576-2606-2-ND	1.8V/2.6V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GMYML TR	576-2607-1-ND	1.8V/2.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GMYML TR	576-2607-2-ND	1.8V/2.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GOYML TR	576-2608-1-ND	1.8V/2.9V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GOYML TR	576-2608-2-ND	1.8V/2.9V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GPYML TR	576-2609-1-ND	1.8V/3.0V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GPYML TR	576-2609-2-ND	1.8V/3.0V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-GSYML TR	576-2610-1-ND	1.8V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-GSYML TR	576-2610-2-ND	1.8V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-JGYML TR	576-2611-1-ND	2.5V/1.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-JGYML TR	576-2611-2-ND	2.5V/1.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-JPYML TR	576-2612-1-ND	2.5V/3.0V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-JPYML TR	576-2612-2-ND	2.5V/3.0V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-JYYML TR	576-2613-1-ND	2.5V/1.9V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-JYYML TR	576-2613-2-ND	2.5V/1.9V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-KNYML TR	576-2614-1-ND	2.6V/1.85V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-KNYML TR	576-2614-2-ND	2.6V/1.85V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-LGYML TR	576-2615-1-ND	2.7V/1.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-LGYML TR	576-2615-2-ND	2.7V/1.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-MFYML TR	576-2616-1-ND	2.8V/1.5V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-MFYML TR	576-2616-2-ND	2.8V/1.5V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-MGYML TR	576-2617-1-ND	2.8V/1.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-MGYML TR	576-2617-2-ND	2.8V/1.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-MMYML TR	576-2618-1-ND	2.8V/2.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-MMYML TR	576-2618-2-ND	2.8V/2.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-MSYML TR	576-2619-1-ND	2.8V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-MSYML TR	576-2619-2-ND	2.8V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-NNYML TR	576-2620-1-ND	2.85V/2.85V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-NNYML TR	576-2620-2-ND	2.85V/2.85V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-NSYML TR	576-2621-1-ND	2.85V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-NSYML TR	576-2621-2-ND	2.85V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-OFYML TR	576-2622-1-ND	2.9V/1.5V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-OFYML TR	576-2622-2-ND	2.9V/1.5V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-OOYML TR	576-2623-1-ND	2.9V/2.9V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-OOYML TR	576-2623-2-ND	2.9V/2.9V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-PMYML TR	576-2624-1-ND	3.0V/2.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-PMYML TR	576-2624-2-ND	3.0V/2.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-PPYML TR	576-2625-1-ND	3.0V/3.0V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-PPYML TR	576-2625-2-ND	3.0V/3.0V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-PSYML TR	576-2626-1-ND	3.0V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-PSYML TR	576-2626-2-ND	3.0V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-SGYML TR	576-2627-1-ND	3.3V/1.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-SGYML TR	576-2627-2-ND	3.3V/1.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-SMYML TR	576-2628-1-ND	3.3V/2.8V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-SMYML TR	576-2628-2-ND	3.3V/2.8V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-SSYML TR	576-2629-1-ND	3.3V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-SSYML TR	576-2629-2-ND	3.3V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2211-WSYML TR	576-2630-1-ND	1.6V/3.3V Dual LDO Regulator	10-MLF	1.78	1.42	1.07
MIC2211-WSYML TR	576-2630-2-ND	1.6V/3.3V Dual LDO Regulator	10-MLF	4440.00/5,000		
MIC2212-DNYML TR	576-2631-1-ND	1.85V/2.85V Dual LDO Regulator with Power-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-DNYML TR	576-2631-2-ND	1.85V/2.85V Dual LDO Regulator with Power-On Reset	10-MLF	5440.00/5,000		
MIC2212-DOYML TR	576-2632-1-ND	1.85V/2.9V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-DOYML TR	576-2632-2-ND	1.85V/2.9V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-GKYML TR	576-2633-1-ND	1.8V/2.6V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-GKYML TR	576-2633-2-ND	1.8V/2.6V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-GMYML TR	576-2634-1-ND	1.8V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-GMYML TR	576-2634-2-ND	1.8V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-GPYML TR	576-2635-1-ND	3.0V Dual µCap LDO Regulator	10-MLF	2.18	1.74	1.31
MIC2212-GPYML TR	576-2635-2-ND	3.0V Dual µCap LDO Regulator	10-MLF	5440.00/5,000		
MIC2212-JSYML TR	576-2636-1-ND	2.5V/3.3V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-JSYML TR	576-2636-2-ND	2.5V/3.3V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-KMYML TR	576-2637-1-ND	2.6V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-KMYML TR	576-2637-2-ND	2.6V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-MKYML TR	576-2638-1-ND	2.8V/2.6V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31

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LDO REGULATORS

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2212-MKYML TR	576-2638-2-ND	2.8V/2.6V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-MMYML TR	576-2639-1-ND	2.8V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-MMYML TR	576-2639-2-ND	2.8V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-MPYML TR	576-2640-1-ND	2.8V/3.0V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-MPYML TR	576-2640-2-ND	2.8V/3.0V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-PMYML TR	576-2641-1-ND	3.0V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-PMYML TR	576-2641-2-ND	3.0V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2212-SMYML TR	576-2642-1-ND	3.3V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	2.18	1.74	1.31
MIC2212-SMYML TR	576-2642-2-ND	3.3V/2.8V Dual LDO Reg., Pwr-On Reset	10-MLF	5440.00/5,000		
MIC2214-AAYML TR	576-2643-1-ND	Adj. Dual LDO Reg.,OD, Power-On Reset	16-MLF	2.28	1.82	1.37
MIC2214-AAYML TR	576-2643-2-ND	Adj. Dual LDO Reg.,OD, Power-On Reset	16-MLF	5690.00/5,000		
MIC2214-DKYML TR	576-2644-1-ND	1.85V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-DKYML TR	576-2644-2-ND	1.85V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-FMYML TR	576-2645-1-ND	1.5V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-FMYML TR	576-2645-2-ND	1.5V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-GKYML TR	576-2646-1-ND	1.8V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-GKYML TR	576-2646-2-ND	1.8V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-GMYML TR	576-2647-1-ND	1.8V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-GMYML TR	576-2647-2-ND	1.8V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-GPYML TR	576-2648-1-ND	1.8V/3.0V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-GPYML TR	576-2648-2-ND	1.8V/3.0V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-JGYML TR	576-2649-1-ND	2.5V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-JGYML TR	576-2649-2-ND	2.5V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-KNYML TR	576-2650-1-ND	2.6V/2.85V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-KNYML TR	576-2650-2-ND	2.6V/2.85V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-PSYML TR	576-2651-1-ND	3.0V/3.3V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-PSYML TR	576-2651-2-ND	3.0V/3.3V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-SGYML TR	576-2652-1-ND	3.3V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-SGYML TR	576-2652-2-ND	3.3V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2214-SWYML TR	576-2653-1-ND	3.3V/1.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	2.28	1.82	1.37
MIC2214-SWYML TR	576-2653-2-ND	3.3V/1.6V Dual LDO Regulator with Open-Drain and Power-On Reset	10-MLF	5690.00/5,000		
MIC2215-AAAYML TR	576-2654-1-ND	Adj. Triple High PSRR, LN LDO Regulator	16-MLF	2.90	2.33	1.81
MIC2215-AAAYML TR	576-2654-2-ND	Adj. Triple High PSRR, LN LDO Regulator	16-MLF	8065.00/5,000		
MIC2215-PPMYML TR	576-1073-1-ND	Triple High PSRR, LN LDO Regulator	16-MLF	2.90	2.33	1.81
MIC2215-PPPYML TR	576-1074-1-ND	Triple High PSRR, LN LDO Regulator	16-MLF	2.90	2.33	1.81
MIC2225-4MYMT TR	576-3024-1-ND	2MHz 600mA Synchronous Buck Regulator with 300mA LDO	10-MLF	2.35	1.88	1.41
MIC2225-4MYMT TR	576-3024-2-ND	2MHz 600mA Synchronous Buck Regulator with 300mA LDO	10-MLF	5875.00/5,000		
MIC2225-4SYMT TR	576-3021-1-ND	2MHz 600mA Synchronous Buck Regulator with 300mA LDO	10-MLF	2.35	1.88	1.41
MIC2225-4SYMT TR	576-3021-2-ND	2MHz 600mA Synchronous Buck Regulator with 300mA LDO	10-MLF	5875.00/5,000		
MIC2238-GFHYML TR	576-2972-1-ND	1.58V/1.8V 0.8A Dual Phase PWM Buck Regulator	12-MLF	4.01	3.21	2.50
MIC2238-GFHYML TR	576-2972-2-ND	1.58V/1.8V 0.8A Dual Phase PWM Buck Regulator	12-MLF	11125.00/5,000		
MIC2920A-3.3WS TR	576-1116-1-ND	3.3V, 400mA LDO Voltage Regulator	SOT-223	2.72	2.18	1.70
MIC2920A-3.3WS TR	576-1116-2-ND	3.3V, 400mA LDO Voltage Regulator	SOT-223	3812.50/2,500		
MIC2920A-3.3WT	576-2219-ND	3.3V, 400mA LDO Voltage Regulator	TO-220-3	3.40	2.72	2.12
MIC2920A-4.8WT	576-2220-ND	4.85V, 400mA LDO Voltage Regulator	TO-220-3	3.40	2.72	2.12
MIC2920A-5.0WS	576-3368-5-ND	5V, 400mA LDO Voltage Regulator	SOT-223	2.72	2.18	1.70
MIC2920A-5.0WS TR	576-1117-1-ND	5V, 400mA LDO Voltage Regulator	SOT-223	2.72	2.18	1.70
MIC2920A-5.0WS TR	576-1117-2-ND	5V, 400mA LDO Voltage Regulator	SOT-223	3812.50/2,500		
MIC2920A-5.0WT	576-2221-ND	5V, 400mA LDO Voltage Regulator	TO-220-3	3.40	2.72	2.12
MIC2920A-12WS	576-1750-5-ND	12V, 400mA LDO Voltage Regulator	SOT-223	2.72	2.18	1.70
MIC2920A-12WT	576-2218-ND	12V, 400mA LDO Voltage Regulator	TO-220-3	3.40	2.72	2.12
MIC2937A-3.3WT	576-2235-ND	3.3V, 750mA LDO Voltage Regulator	TO-220-3	2.45	1.97	1.53
MIC2937A-3.3WU	576-1131-ND	3.3V, 750mA LDO Voltage Regulator	TO-263-3	2.45	1.97	1.53
MIC2937A-5.0WT	576-1132-ND	5V, 750mA LDO Voltage Regulator	TO-220-3	2.45	1.97	1.53
MIC2937A-5.0WU	576-1133-ND	5V, 750mA LDO Voltage Regulator	TO-263	2.45	1.97	1.53
MIC2937A-12WT	576-2233-ND	12V, 750mA LDO Voltage Regulator	TO-220-3	2.45	1.97	1.53
MIC2937A-12WU	576-2234-ND	12V, 750mA LDO Voltage Regulator	TO-263-3	2.45	1.97	1.53
MIC2940A-3.3WT	576-1134-ND	3.3V, 1.25A LDO Voltage Regulator	TO-220-3	2.23	1.78	1.34
MIC2940A-3.3WU	576-1135-ND	3.3V, 1.25A LDO Voltage Regulator	TO-263	2.23	1.78	1.34
MIC2940A-5.0WT	576-1136-ND	5V, 1.25A LDO Voltage Regulator	TO-220-3	2.23	1.78	1.34
MIC2940A-5.0WU	576-1137-ND	5V, 1.25A LDO Voltage Regulator	TO-263	2.23	1.78	1.34
MIC2940A-12WT	576-2236-ND	12V, 1.25A LDO Voltage Regulator	TO-220-3	2.23	1.78	1.34
MIC2940A-12WU	576-2237-ND	12V, 1.25A LDO Voltage Regulator	TO-263-3	2.23	1.78	1.34
MIC2941AWT	576-1138-ND	Adj., 1.25A LDO Voltage Regulator	TO-220-5	2.39	1.91	1.49
MIC2941AWU	576-3370-5-ND	Adj., 1.25A LDO Voltage Regulator	TO-263-5	2.39	1.91	1.49
MIC2941AWU TR	576-1139-1-ND	Adj., 1.25A LDO Voltage Regulator	TO-263-5	2.39	1.91	1.49
MIC2941AWU TR	576-1139-2-ND	Adj., 1.25A LDO Voltage Regulator	TO-263-5	1033.50/750		
MIC2951-02YM	576-3371-5-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1.17	.98	.78
MIC2951-02YM TR	576-1148-1-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1.17	.98	.78
MIC2951-02YM TR	576-1148-2-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1267.50/2,500		
MIC2951-03YM	576-2244-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1.11	.93	.74
MIC2951-03YMM	576-2245-ND	5V, 150mA LDO Voltage Regulator	8-MSOP	1.26	1.05	.84
MIC2951-03YM TR	576-1149-1-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1.11	.93	.74
MIC2951-03YM TR	576-1149-2-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	1202.50/2,500		
MIC2951-03YN	576-1150-ND	5V, 150mA LDO Voltage Regulator	8-Dip	1.32	1.10	.88
MIC2951-3.3YM	576-1151-ND	3.3V/Adj., 150mA LDO Voltage Regulator	8-SOIC	1.11	.93	.74
MIC2951-3.3YMM	576-2247-ND	3.3V/Adj., 150mA LDO Voltage Regulator	8-MSOP	1.29	1.08	.86
MIC2954-02WS	576-1152-ND	5V, 250mA Low Dropout Regulator	SOT-223	2.05	1.64	1.23
MIC2954-02WT	576-2248-ND	5V, 250mA LDO Regulator	TO-220-3	2.70	2.16	1.68
MIC2954-03WS	576-2249-ND	5V, 250mA LDO Regulator	SOT-223	1.88	1.50	1.13
MIC2954-03WS TR	576-1154-1-ND	5V, 250mA Low Dropout Regulator	SOT-223	1.88	1.50	1.13
MIC2954-03WS TR	576-1154-2-ND	5V, 250mA Low Dropout Regulator	SOT-223	2400.00/2,500		
MIC2954-07YM	576-1155-ND	5V, 250mA Low Dropout Regulator	8-SOIC	2.10	1.68	1.26
MIC2954-08YM	576-2250-ND	5V, 250mA Low Dropout Regulator	8-SOIC	1.75	1.40	1.05
MIC2954-08YM TR	576-1156-1-ND	5V, 250mA Low Dropout Regulator	8-SOIC	1.75	1.40	1.05
MIC2954-08YM TR	576-1156-2-ND	5V, 250mA Low Dropout Regulator	8-SOIC	2240.00/2,500		
MIC3385YHL TR	576-2714-1-ND	8MHz Inductorless LDO Buck Regulator	14-MLF	4.03	3.23	2.51
MIC3385YHL TR	576-2714-2-ND	8MHz Inductorless LDO Buck Regulator	14-MLF	11190.00/5,000		
MIC3775-1.5YMM	576-1767-5-ND	1.5V, 750mA Low Voltage LDO Regulator	8-MSOP	1.98	1.58	1.19
MIC3775-1.8YMM	576-2278-ND	1.8V, 750mA Low Voltage LDO Regulator	8-MSOP	1.98	1.58	1.19
MIC3775-2.5YMM	576-2279-ND	2.5V, 750mA Low Voltage LDO Regulator	8-MSOP	1.98	1.58	1.19
MIC3775-3.3YMM	576-2280-ND	3.3V, 750mA Low Voltage LDO Regulator	8-MSOP	1.98	1.58	1.19
MIC3775YMM	576-1768-5-ND	Adj., 750mA Low Voltage LDO Regulator	8-MSOP	1.98	1.58	1.19
MIC3975-1.8YMM	576-1784-5-ND	1.8V, 750mA Low Voltage LDO Regulator	8-MSOP	2.20	1.76	1.32
MIC3975-2.5YMM	576-1785-5-ND	2.5V, 750mA Low Voltage LDO Regulator	8-MSOP	2.20	1.76	1.32
MIC3975-3.3YMM	576-1786-5-ND	3.3V, 750mA Low Voltage LDO Regulator	8-MSOP	2.20	1.76	1.32
MIC3975YMM	576-1787-5-ND	Adj., 750mA Low Voltage LDO Regulator	8-MSOP	2.20	1.76	1.32
MIC3975-5.0YMM	576-2313-ND	5.0V, 750mA Low Voltage LDO Regulator	8-MSOP	2.20	1.76	1.32
MIC5156-3.3YM	576-2355-ND	3.3V, Super LDO™ Regulator	8-SOIC	2.97	2.38	1.85
MIC5156YN	576-2356-ND	Adj., Super LDO™ Regulator	8-Dip	3.56	2.85	2.22
MIC5156YM	576-1819-5-ND	Adj., Super LDO™ Regulator	8-SOIC	2.97	2.38	1.85
MIC5157YM	576-2357-ND	Selectable, Super LDO™ Regulator	14-SOIC	4.21	3.37	2.62
MIC5158YM	576-1243-ND	5.0V/Adj., Super LDO™ Regulator	14-SOIC	4.46	3.57	2.78
MIC5159YM6 TR	576-2721-1-ND	Adj., Programmable Current Limit µCap LDO Regulator Controller	SOT-23-6	1.75	1.40	1.05
MIC5159YM6 TR	576-2721-2-ND	Adj., Programmable Current Limit µCap LDO Regulator Controller	SOT-23-6	2688.00/3,000		
MIC5159-1.8YM6 TR	576-3029-1-ND	1.8V, Programmable Current Limit µCap LDO Regulator Controller	SOT-23-6	1.75	1.40	1.05
MIC5159-1.8YM6 TR	576-3029-2-ND	1.8V, Programmable Current Limit µCap LDO Regulator Controller	SOT-23-6	2688.00/3,000		
MIC5190YMM	576-1244-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	5.06	4.05	3.42
MIC5191YML TR	576-2722-1-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MLF	5.28	4.23	3.57
MIC5191YML TR	576-2722-2-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MLF	16105.00/5,000		
MIC5191YMM	576-1245-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	5.28	4.23	3.57
MIC5200-3.0YM	576-2358-ND	3.0V, 100mA Low Dropout Regulator	8-SOIC	2.10	1.68	1.26
MIC5200-3.0YS	576-2359-ND	3.0V, 100mA Low Dropout Regulator	SOT-223	2.35	1.88	1.41
MIC5200-3.3YM	576-1246-ND	3.3V, 100mA Low Dropout Regulator	8-SOIC	2.10	1.68	1.26
MIC5200-3.3YS	576-1247-ND	3.3V, 100mA Low Dropout Regulator	SOT-223	2.35	1.88	1.41
MIC5200-4.8YS	576-2360-ND	4.8V, 100mA LDO Regulator	SOT-223	2.35	1.88	1.41
MIC5200-5.0YM	576-1248-ND	5.0V, 100mA Low Dropout Regulator	8-SOIC	2.10	1.68	1.26
MIC5200-5.0YMM	576-2361-ND	5.0V, 100mA LDO Regulator	8-MSOP	2.35	1.88	1.41
MIC5200-5.0YS	576-3380-5-ND	5.0V, 100mA LDO Regulator	SOT-223	2.35	1.88	1.41
MIC5200-5.0YS TR	576-1249-1-ND	5.0V, 100mA Low Dropout Regulator	SOT-223	2.35	1.88	1.41
MIC5200-5.0YS TR	576-1249-2-ND	5.0V, 100mA Low Dropout Regulator	SOT-223	3007.50/2,500		
MIC5201-3.0YM	576-1821-5-ND	3.0V, 200mA LDO Regulator	8-SOIC	2.48	1.98	1.49
MIC5201-3.0YS	576-2362-ND	3.0V, 200mA LDO Regulator	SOT-223	2.48	1.98	1.54
MIC5201-3.3YM TR	576-1250-1-ND	3.3V, 200mA Low Dropout Regulator	8-SOIC	2.48	1.98	1.49
MIC5201-3.3YM TR	576-1250-2-ND	3.3V, 200mA Low Dropout Regulator	8-SOIC	3167.50/2,500		
MIC5201-3.3YS TR	576-1251-1-ND	3.3V, 200mA Low Dropout Regulator	SOT-223	2.48	1.98	1.54
MIC5201-3.3YS TR	576-1251-2-ND	3.3V, 200mA Low Dropout Regulator	SOT-223	3465.00/2,500		
MIC5201-4.8YS	576-1252-ND	4.8V, 200mA Low Dropout Regulator	SOT-223	2.48	1.98	1.54
MIC5201-5.0YM	576-1253-ND	5.0V, 200mA Low Dropout Regulator	8-SOIC	2.48	1.98	1.49
MIC5201-5.0YS	576-1254-ND	5.0V, 200mA Low Dropout Regulator	SOT-223	2.48	1.98	1.54
MIC5201YM	576-1822-5-ND	Adj., 200mA LDO Regulator	8-SOIC	2.48	1.98	1.49
MIC5202-3.0YM	576-2363-ND	3.0V, 100mA Dual LDO Regulator	8-SOIC	4.70	3.77	2.93
MIC5202-5.0YM	576-1823-5-ND	5.0V, 100mA Dual LDO Regulator	8-SOIC	4.70	3.77	2.93
MIC5203-2.6YM5 TR	576-2723-1-ND	2.6V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-2.6YM5 TR	576-2723-2-ND	2.6V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-2.8YM4 TR	576-2724-1-ND	2.8V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-2.8YM4 TR	576-2724-2-ND	2.8V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-2.8YM5 TR	576-2725-1-ND	2.8V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-2.8YM5 TR	576-2725-2-ND	2.8V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-3.0YM4 TR	576-2726-1-ND	3.0V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-3.0YM4 TR	576-2726-2-ND	3.0V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-3.0YM5 TR	576-2727-1-ND	3.0V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-3.0YM5 TR	576-2727-2-ND	3.0V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-3.3YM4 TR	576-1255-1-ND	3.3V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-3.3YM4 TR	576-1255-2-ND	3.3V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-3.3YM5 TR	576-2728-1-ND	3.3V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-3.3YM5 TR	576-2728-2-ND	3.3V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-3.6YM4 TR	576-2729-1-ND	3.6V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-3.6YM4 TR	576-2729-2-ND	3.6V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-3.6YM5 TR	576-2730-1-ND	3.6V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-3.6YM5 TR	576-2730-2-ND	3.6V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-3.8YM4 TR	576-2731-1-ND	3.8V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-3.8YM4 TR	576-2731-2-ND	3.8V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-3.8YM5 TR	576-2732-1-ND	3.8V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-3.8YM5 TR	576-2732-2-ND	3.8V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5203-4.0YM4 TR	576-2733-1-ND	4.0V, µCap 80mA LDO Regulator	SOT-143	.75	.63	.50
MIC5203-4.0YM4 TR	576-2733-2-ND	4.0V, µCap 80mA LDO Regulator	SOT-143	975.00/3,000		
MIC5203-5.0YM4 TR	576-1256-1-ND	5.0V, µCap 80mA LDO Regulator	SOT-143	1.29	1.08	.86
MIC5203-5.0YM4 TR	576-1256-2-ND	5.0V, µCap 80mA LDO Regulator	SOT-143	1677.00/3,000		
MIC5203-5.0YM5 TR	576-2734-1-ND	5.0V, µCap 80mA LDO Regulator	SOT-23-5	.75	.63	.50
MIC5203-5.0YM5 TR	576-2734-2-ND	5.0V, µCap 80mA LDO Regulator	SOT-23-5	975.00/3,000		
MIC5205-2.5YM5 TR	576-1257-1-ND	2.5V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-2.5YM5 TR	576-1257-2-ND	2.5V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-2.7YM5 TR	576-2735-1-ND	2.7V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-2.7YM5 TR	576-2735-2-ND	2.7V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-2.8YM5 TR	576-2736-1-ND	2.8V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-2.8YM5 TR	576-2736-2-ND	2.8V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-2.9YM5 TR	576-2737-1-ND	2.9V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-2.9YM5 TR	576-2737-2-ND	2.9V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-3.0YM5 TR	576-1258-1-ND	3V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.0YM5 TR	576-1258-2-ND	3V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-3.1YM5 TR	576-2738-1-ND	3.1V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.1YM5 TR	576-2738-2-ND	3.1V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-3.2YM5 TR	576-2739-1-ND	3.2V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.2YM5 TR	576-2739-2-ND	3.2V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-3.3YM5 TR	576-1259-1-ND	3.3V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.3YM5 TR	576-1259-2-ND	3.3V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-3.6YM5 TR	576-1260-1-ND	3.6V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.6YM5 TR	576-1260-2-ND	3.6V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		

* *RoHS Compliant* **★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★** *(Continued)*

LDO REGULATORS

DigiReel® (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5205-3.8YM5 TR	576-2740-1-ND	3.8V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-3.8YM5 TR	576-2740-2-ND	3.8V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-4.0YM5 TR	576-1563-1-ND	4.0V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-4.0YM5 TR	576-1563-2-ND	4.0V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205-5.0YM5 TR	576-1261-1-ND	5.0V, 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205-5.0YM5 TR	576-1261-2-ND	5.0V, 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5205YM5 TR	576-1262-1-ND	Adj., 150mA Low Noise LDO Regulator	SOT-23-5	.81	.68	.54
MIC5205YM5 TR	576-1262-2-ND	Adj., 150mA Low Noise LDO Regulator	SOT-23-5	1053.00/3,000		
MIC5206-2.5YM5 TR	576-2741-1-ND	2.5V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-2.5YM5 TR	576-2741-2-ND	2.5V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-3.0YM5 TR	576-1263-1-ND	3.0V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-3.0YM5 TR	576-1263-2-ND	3.0V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-3.2YM5 TR	576-1264-1-ND	3.2V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-3.2YM5 TR	576-1264-2-ND	3.2V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-3.3YM5 TR	576-2742-1-ND	3.3V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-3.3YM5 TR	576-2742-2-ND	3.3V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-3.3YMM	576-2364-ND	3.3V, 150mA Low Noise LDO Regulator	8-MSOP	1.65	1.32	.99
MIC5206-3.6YM5 TR	576-2743-1-ND	3.6V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-3.6YM5 TR	576-2743-2-ND	3.6V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-4.0YM5 TR	576-1265-1-ND	4.0V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-4.0YM5 TR	576-1265-2-ND	4.0V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-5.0YM5 TR	576-2744-1-ND	5.0V, 150mA Low Noise LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5206-5.0YM5 TR	576-2744-2-ND	5V, 150mA Low Noise LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5206-5.0YMM	576-1824-5-ND	5V, 150mA Low Noise LDO Regulator	8-MSOP	1.65	1.32	.99
MIC5206YMM	576-2365-ND	Adj., 150mA Low Noise LDO Regulator	8-MSOP	1.65	1.32	.99
MIC5207-1.8YM5 TR	576-2745-1-ND	1.8V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-1.8YM5 TR	576-2745-2-ND	1.8V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207-2.5YM5 TR	576-1266-1-ND	2.5V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-2.5YM5 TR	576-1266-2-ND	2.5V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207-2.8YM5 TR	576-2746-1-ND	2.8V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-2.8YM5 TR	576-2746-2-ND	2.8V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207-3.0YM5 TR	576-2747-1-ND	3.0V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-3.0YM5 TR	576-2747-2-ND	3.0V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207-3.3YM5 TR	576-1267-1-ND	3.3V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-3.3YM5 TR	576-1267-2-ND	3.3V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207-5.0YM5 TR	576-1268-1-ND	5.0V, 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207-5.0YM5 TR	576-1268-2-ND	5.0V, 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5207YM5 TR	576-1269-1-ND	Adj., 180mA Low Noise LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5207YM5 TR	576-1269-2-ND	Adj., 180mA Low Noise LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5209-1.8YM	576-1270-ND	1.8V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-1.8YU	576-2366-ND	1.8V, 500mA Low Noise LDO Regulator	TO-263-5	2.32	1.86	1.45
MIC5209-2.5YM TR	576-1271-1-ND	2.5V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-2.5YM TR	576-1271-2-ND	2.5V, 500mA Low Noise LDO Regulator	8-SOIC	2592.50/2,500		
MIC5209-2.5YS	576-3515-5-ND	2.5V, 500mA Low Noise LDO Reg. ***NEW!***	SOT-223	2.03	1.62	1.22
MIC5209-2.5YS TR	576-1272-1-ND	2.5V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-2.5YS TR	576-1272-2-ND	2.5V, 500mA Low Noise LDO Regulator	SOT-223	2592.50/2,500		
MIC5209-2.5YU	576-2367-ND	2.5V, 500mA Low Noise LDO Regulator	TO-263-5	2.32	1.86	1.45
MIC5209-3.0YM	576-2368-ND	3.0V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-3.0YS	576-1825-5-ND	3.0V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-3.3YM	576-1273-ND	3.3V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-3.3YS	576-3516-5-ND	3.3V 500mA Low Noise LDO Reg. ***NEW!***	SOT-223	2.03	1.62	1.22
MIC5209-3.3YS TR	576-1274-1-ND	3.3V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-3.3YS TR	576-1274-2-ND	3.3V, 500mA Low Noise LDO Regulator	SOT-223	2592.50/2,500		
MIC5209-3.3YU	576-2369-ND	3.3V, 500mA Low Noise LDO Regulator	TO-263-5	2.32	1.86	1.45
MIC5209-3.6YM	576-2370-ND	3.6V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-3.6YS	576-2371-ND	3.6V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-4.2YS	576-2372-ND	4.2V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-5.0YM TR	576-1275-1-ND	5.0V, 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209-5.0YM TR	576-1275-2-ND	5.0V, 500mA Low Noise LDO Regulator	8-SOIC	2592.50/2,500		
MIC5209-5.0YS	576-1276-ND	5.0V, 500mA Low Noise LDO Regulator	SOT-223	2.03	1.62	1.22
MIC5209-5.0YU	576-1277-ND	5.0V, 500mA Low Noise LDO Regulator	TO-263-5	2.32	1.86	1.45
MIC5209YM	576-1278-ND	Adj., 500mA Low Noise LDO Regulator	8-SOIC	2.03	1.62	1.22
MIC5209YML TR	576-3026-1-ND	Adj., 500mA Low Noise LDO Regulator	8-MLF	2.35	1.88	1.41
MIC5209YML TR	576-3026-2-ND	Adj., 500mA Low Noise LDO Regulator	8-MLF	5875.00/5,000		
MIC5209YU	576-1279-ND	Adj., 500mA Low Noise LDO Regulator	TO-263-5	2.32	1.86	1.45
MIC5210-3.3YMM	576-2373-ND	3.3V, 150mA Dual LDO Regulator	8-MSOP	2.28	1.82	1.37
MIC5210-5.0YMM	576-2374-ND	5.0V, 150mA Dual LDO Regulator	8-MSOP	2.28	1.82	1.37
MIC5211-3.3YM6 TR	576-2748-1-ND	3.3V, 80mA µCap Dual VLDO Regulator	SOT-23-6	1.40	1.12	.84
MIC5211-3.3YM6 TR	576-2748-2-ND	3.3V, 80mA µCap Dual VLDO Regulator	SOT-23-6	2151.00/3,000		
MIC5211-LXYM6 TR	576-2749-1-ND	3.3V/5.0V 80mA µCap Dual VLDO Reg.	SOT-23-6	1.40	1.12	.84
MIC5211-LXYM6 TR	576-2749-2-ND	3.3V/5.0V 80mA µCap Dual VLDO Reg.	SOT-23-6	2151.00/3,000		
MIC5212-SJYM	576-1826-5-ND	3.3V/2.5V, 500mA Dual LDO Regulator	8-SOIC	2.66	2.13	1.66
MIC5213-2.5YC5 TR	576-2750-1-ND	2.5V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-2.5YC5 TR	576-2750-2-ND	2.5V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5213-2.8YC5 TR	576-2751-1-ND	2.8V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-2.8YC5 TR	576-2751-2-ND	2.8V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5213-3.0YC5 TR	576-2752-1-ND	3.0V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-3.0YC5 TR	576-2752-2-ND	3.0V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5213-3.3YC5 TR	576-2753-1-ND	3.3V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-3.3YC5 TR	576-2753-2-ND	3.3V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5213-3.6YC5 TR	576-2754-1-ND	3.6V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-3.6YC5 TR	576-2754-2-ND	3.6V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5213-5.0YC5 TR	576-2755-1-ND	5.0V, Teeny™ 80mA µCap LDO Regulator	SC70-5	.99	.83	.66
MIC5213-5.0YC5 TR	576-2755-2-ND	5.0V, Teeny™ 80mA µCap LDO Regulator	SC70-5	1287.00/3,000		
MIC5216-3.3YM5 TR	576-2756-1-ND	3.3V, 500mA-Peak Output LDO Regulator	SOT-23-5	2.33	1.86	1.40
MIC5216-3.3YM5 TR	576-2756-2-ND	3.3V, 500mA-Peak Output LDO Regulator	SOT-23-5	3570.00/3,000		
MIC5216-3.3YMM	576-2375-ND	3.3V, 500mA-Peak Output LDO Regulator	8-MSOP	2.86	2.29	1.78
MIC5216-5.0YM5 TR	576-2757-1-ND	5.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	2.33	1.86	1.40
MIC5216-5.0YM5 TR	576-2757-2-ND	5.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	3570.00/3,000		
MIC5216-5.0YMM	576-2990-ND	5.0V, 500mA-Peak Output LDO Regulator	8-MSOP	2.86	2.29	1.78
MIC5219-2.5YM5 TR	576-2758-1-ND	2.5V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-2.5YM5 TR	576-2758-2-ND	2.5V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-2.5YMM	576-2376-ND	2.5V, 500mA-Peak Output LDO Regulator	8-MSOP	2.23	1.78	1.34
MIC5219-2.6YM5 TR	576-2759-1-ND	2.6V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.70
MIC5219-2.6YM5 TR	576-2759-2-ND	2.6V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-2.7YM5 TR	576-2760-1-ND	2.7V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-2.7YM5 TR	576-2760-2-ND	2.7V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-2.85YM5 TR	576-2761-1-ND	2.85V, 500mA-Peak Out LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-2.85YM5 TR	576-2761-2-ND	2.85V, 500mA-Peak Out LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-2.8YM5 TR	576-2762-1-ND	2.8V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-2.8YM5 TR	576-2762-2-ND	2.8V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-2.8YML TR	576-2763-1-ND	2.8V, 500mA-Peak Output LDO Regulator	6-MLF	2.30	1.84	1.43
MIC5219-2.8YML TR	576-2763-2-ND	2.8V, 500mA-Peak Output LDO Regulator	6-MLF	6375.00/5,000		
MIC5219-2.9YM5 TR	576-2764-1-ND	2.9V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-2.9YM5 TR	576-2764-2-ND	2.9V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-3.0YM5 TR	576-2765-1-ND	3.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-3.0YM5 TR	576-2765-2-ND	3.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		

LDO REGULATORS

DigiReel® (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5219-3.0YML TR	576-2766-1-ND	3.0V, 500mA-Peak Output LDO Regulator	6-MLF	2.30	1.84	1.43
MIC5219-3.0YML TR	576-2766-2-ND	3.0V, 500mA-Peak Output LDO Regulator	6-MLF	6375.00/5,000		
MIC5219-3.0YMM TR	576-1280-1-ND	3.0V, 500mA-Peak Output LDO Regulator	8-MSOP	2.23	1.78	1.34
MIC5219-3.0YMM TR	576-1280-2-ND	3.0V, 500mA-Peak Output LDO Regulator	8-MSOP	2847.50/2,500		
MIC5219-3.1YM5 TR	576-2767-1-ND	3.1V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-3.1YM5 TR	576-2767-2-ND	3.1V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-3.3YML TR	576-2768-1-ND	3.3V, 500mA-Peak Output LDO Regulator	6-MLF	2.30	1.84	1.43
MIC5219-3.3YML TR	576-2768-2-ND	3.3V, 500mA-Peak Output LDO Regulator	6-MLF	6375.00/5,000		
MIC5219-3.3YM5 TR	576-1281-1-ND	3.3V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-3.3YM5 TR	576-1281-2-ND	3.3V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-3.3YMM	576-1827-5-ND	3.3V, 500mA-Peak Output LDO Regulator	8-MSOP	2.23	1.78	1.34
MIC5219-3.6YM5 TR	576-2769-1-ND	3.6V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-3.6YM5 TR	576-2769-2-ND	3.6V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-5.0YMM	576-1828-5-ND	5.0V, 500mA-Peak Output LDO Regulator	8-MSOP	2.23	1.78	1.34
MIC5219-5.0YM5 TR	576-2770-1-ND	5.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219-5.0YM5 TR	576-2770-2-ND	5.0V, 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219-5.0YMT TR	576-3521-1-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	6-TMLF	2.30	1.84	1.43
MIC5219-5.0YMT TR	576-3521-2-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	6-TMLF	6375.00/5,000		
MIC5219YM5 TR	576-1282-1-ND	Adj., 500mA-Peak Output LDO Regulator	SOT-23-5	1.70	1.36	1.02
MIC5219YM5 TR	576-1282-2-ND	Adj., 500mA-Peak Output LDO Regulator	SOT-23-5	2610.00/3,000		
MIC5219YMM	576-3437-ND	Adj., 500mA-Peak Output LDO Regulator ***NEW!***	8-MSOP	2.23	1.78	1.34
MIC5219YMT TR	576-3522-1-ND	Adj., 500mA-Peak Output LDO Regulator ***NEW!***	6-TMLF	2.30	1.84	1.43
MIC5219YMT TR	576-3522-2-ND	Adj., 500mA-Peak Output LDO Regulator ***NEW!***	6-TMLF	6375.00/5,000		
MIC5231-2.75YM5 TR	576-2771-1-ND	2.75V, 10mA MPU µCap LDO Regulator	SOT-23-5	2.10	1.68	1.26
MIC5231-2.75YM5 TR	576-2771-2-ND	2.75V, 10mA MPU µCap LDO Regulator	SOT-23-5	3225.00/3,000		
MIC5231-3.0YM5 TR	576-1283-1-ND	3V, 10mA MPU µCap LDO Regulator	SOT-23-5	2.10	1.68	1.26
MIC5231-3.0YM5 TR	576-1283-2-ND	3V, 10mA MPU µCap LDO Regulator	SOT-23-5	3225.00/3,000		
MIC5231-3.3YM5 TR	576-2772-1-ND	3.3V, 10mA MPU µCap LDO Regulator	SOT-23-5	2.10	1.68	1.26
MIC5231-3.3YM5 TR	576-2772-2-ND	3.3V, 10mA MPU µCap LDO Regulator	SOT-23-5	3225.00/3,000		
MIC5231-5.0YM5 TR	576-2773-1-ND	5.0V, 10mA MPU µCap LDO Regulator	SOT-23-5	2.10	1.68	1.26
MIC5231-5.0YM5 TR	576-2773-2-ND	5.0V, 10mA MPU µCap LDO Regulator	SOT-23-5	3225.00/3,000		
MIC5232-1.2YD5 TR	576-1829-1-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	SOT-23-5	.99	.83	.66
MIC5232-1.2YD5 TR	576-1829-2-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	SOT-23-5	1287.00/3,000		
MIC5232-1.2YML TR	576-1592-1-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	1.38	1.15	.92
MIC5232-1.2YML TR	576-1592-2-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	2935.00/5,000		
MIC5232-2.8YD5 TR	576-3121-1-ND	2.8V, 10mA Ultra-Low µCap LDO Reg.	TSOT-23-5	.99	.83	.66
MIC5232-2.8YD5 TR	576-3121-2-ND	2.8V, 10mA Ultra-Low µCap LDO Reg.	TSOT-23-5	1287.00/3,000		
MIC5232-2.8YML TR	576-3122-1-ND	2.8V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	1.38	1.15	.92
MIC5232-2.8YML TR	576-3122-2-ND	2.8V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	2935.00/5,000		
MIC5232-3.3YD5 TR	576-2774-1-ND	3.3V, 10mA Ultra-Low µCap LDO Reg.	TSOT-23-5	.99	.83	.66
MIC5232-3.3YD5 TR	576-2774-2-ND	3.3V, 10mA Ultra-Low µCap LDO Reg.	TSOT-23-5	1287.00/3,000		
MIC5232-3.3YML TR	576-1830-1-ND	3.3V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	1.38	1.15	.92
MIC5232-3.3YML TR	576-1830-2-ND	3.3V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	2935.00/5,000		
MIC5233-1.8YM5 TR	576-2775-1-ND	1.8V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233-1.8YM5 TR	576-2775-2-ND	1.8V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5233-2.5YM5 TR	576-2776-1-ND	2.5V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233-2.5YM5 TR	576-2776-2-ND	2.5V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5233-3.0YM5 TR	576-2777-1-ND	3.0V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233-3.0YM5 TR	576-2777-2-ND	3.0V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5233-3.3YM5 TR	576-2778-1-ND	3.3V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233-3.3YM5 TR	576-2778-2-ND	3.3V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5233-5.0YM5 TR	576-2779-1-ND	5.0V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233-5.0YM5 TR	576-2779-2-ND	5.0V, 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5233YM5 TR	576-1507-1-ND	Adj., 100mA Low IQ µCap LDO Regulator	SOT-23-5	2.28	1.82	1.37
MIC5233YM5 TR	576-1507-2-ND	Adj., 100mA Low IQ µCap LDO Regulator	SOT-23-5	3495.00/3,000		
MIC5235-1.5YM5 TR	576-2780-1-ND	1.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-1.5YM5 TR	576-2780-2-ND	1.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235-1.8YM5 TR	576-2781-1-ND	1.8V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-1.8YM5 TR	576-2781-2-ND	1.8V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235-2.5YM5 TR	576-2782-1-ND	2.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-2.5YM5 TR	576-2782-2-ND	2.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235-3.0YM5 TR	576-2783-1-ND	3.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-3.0YM5 TR	576-2783-2-ND	3.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235-3.3YM5 TR	576-2784-1-ND	3.3V,150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-3.3YM5 TR	576-2784-2-ND	3.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235-5.0YM5 TR	576-2785-1-ND	5.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235-5.0YM5 TR	576-2785-2-ND	5.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5235YM5 TR	576-1284-1-ND	Adj., 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.02	.85	.68
MIC5235YM5 TR	576-1284-2-ND	Adj., 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1326.00/3,000		
MIC5236-2.5YM	576-2377-ND	2.5V, 150mA Low Quiescent Current µCap LDO Regulator	8-SOIC	2.20	1.76	1.32
MIC5236-3.0YM	576-2378-ND	3V, 150mA Low Quiescent Current µCap LDO Regulator	8-SOIC	2.20	1.76	1.32
MIC5236-3.0YMM	576-2379-ND	3V, 150mA Low Quiescent Current µCap LDO Regulator	8-MSOP	2.48	1.98	1.49
MIC5236-3.3YM	576-2380-ND	3.3V, 150mA Low Quiescent Current µCap LDO Regulator	8-SOIC	2.20	1.76	1.32
MIC5236-3.3YMM	576-1831-5-ND	3.3V, 150mA Low Quiescent Current µCap LDO Regulator	8-MSOP	2.48	1.98	1.49
MIC5236-5.0YM	576-2381-ND	5V, 150mA Low Quiescent Current µCap LDO Regulator	8-SOIC	2.20	1.76	1.32
MIC5236-5.0YMM	576-3574-ND	5V, 150mA Low Quiescent Current µCap LDO Regulator* ***NEW!***	8-MSOP	2.48	1.98	1.49
MIC5236YM	576-1285-ND	Adj., Low Quiescent Current µCap LDO Regulator	8-SOIC	2.20	1.76	1.32
MIC5236YMM	576-2382-ND	Adj., Low Quiescent Current µCap LDO Regulator	8-MSOP	2.48	1.98	1.49
MIC5237-2.5YU	576-2383-ND	2.5V, 500mA LDO Regulator	TO-263-3	2.43	1.95	1.52
MIC5237-3.3YU	576-1286-ND	3.3V, 500mA Low Dropout Regulator	TO-263	2.43	1.95	1.52

** RoHS Compliant*

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(Continued)

Digi-Reel® (Cont.)

LDO REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5237-5.0YT	576-2384-ND	5V, 500mA LDO Regulator	TO-220-3	2.43	1.95	1.52
MIC5237-5.0YU	576-2385-ND	5V, 500mA LDO Regulator	TO-263-3	2.43	1.95	1.52
MIC5238-1.0YM5 TR	576-2786-1-ND	1.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.73	1.38	1.04
MIC5238-1.0YM5 TR	576-2786-2-ND	1.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	2649.00/3,000		
MIC5238-1.1YD5 TR	576-1832-1-ND	1.1V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	TSOT-23-5	1.73	1.38	1.04
MIC5238-1.1YD5 TR	576-1832-2-ND	1.1V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	TSOT-23-5	2649.00/3,000		
MIC5238-1.1YM5 TR	576-1833-1-ND	1.1V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.73	1.38	1.04
MIC5238-1.1YM5 TR	576-1833-2-ND	1.1V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	2649.00/3,000		
MIC5238-1.2YD5 TR	576-1834-1-ND	1.2V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.73	1.38	1.04
MIC5238-1.2YD5 TR	576-1834-2-ND	1.2V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	2649.00/3,000		
MIC5238-1.3YD5 TR	576-1835-1-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	TSOT-23-5	1.73	1.38	1.04
MIC5238-1.3YD5 TR	576-1835-2-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	TSOT-23-5	2649.00/3,000		
MIC5238-1.3YM5 TR	576-2787-1-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1.73	1.38	1.04
MIC5238-1.3YM5 TR	576-2787-2-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	2649.00/3,000		
MIC5239-1.5YM	576-2386-ND	1.5V, Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239-1.5YS	576-2387-ND	1.5V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	2.84	2.27	1.77
MIC5239-1.8YM	576-2388-ND	1.8V, Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239-1.8YMM	576-2389-ND	1.8V, Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5239-1.8YS	576-2390-ND	1.8V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	2.84	2.27	1.77
MIC5239-2.5YM	576-2391-ND	2.5V, Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239-2.5YMM	576-2392-ND	2.5V, Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5239-2.5YS	576-1836-5-ND	2.5V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	2.84	2.27	1.77
MIC5239-3.0YMM	576-2393-ND	3.0V, Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5239-3.3YM	576-2394-ND	3.3V, Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239-3.3YMM	576-2395-ND	3.3V, Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5239-3.3YS	576-1837-5-ND	3.3V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	2.84	2.27	1.77
MIC5239-5.0YM	576-1838-5-ND	5.0V, Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239-5.0YMM	576-2396-ND	5.0V, Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5239-5.0YS TR	576-2397-1-ND	5.0V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	3.78	3.09	2.78
MIC5239-5.0YS TR	576-2397-2-ND	5.0V, Low Quiescent Current 500mA µCap LDO Regulator	SOT-223	4190.00/2,500		
MIC5239YM	576-2398-ND	Adj., Low Quiescent Current 500mA µCap LDO Regulator	8-SOIC	2.57	2.06	1.60
MIC5239YMM	576-1287-ND	Adj., Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.84	2.27	1.77
MIC5245-2.5YM5 TR	576-2788-1-ND	2.5V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1.17	.98	.78
MIC5245-2.5YM5 TR	576-2788-2-ND	2.5V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1521.00/3,000		
MIC5245-3.0YM5 TR	576-2789-1-ND	3.0V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1.17	.98	.78
MIC5245-3.0YM5 TR	576-2789-2-ND	3.0V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1521.00/3,000		
MIC5245-3.3YM5 TR	576-2790-1-ND	3.3V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1.17	.98	.78
MIC5245-3.3YM5 TR	576-2790-2-ND	3.3V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1521.00/3,000		
MIC5247-1.5YM5 TR	576-2791-1-ND	1.5V, 150mA Low Voltage µCap Reg.	SOT-23-5	1.08	.90	.72
MIC5247-1.5YM5 TR	576-2791-2-ND	1.5V, 150mA Low Voltage µCap Reg.	SOT-23-5	1404.00/3,000		
MIC5247-1.5YML TR	576-2792-1-ND	1.5V, 150mA Low Voltage µCap Reg.	6-MLF	1.44	1.20	.96
MIC5247-1.5YML TR	576-2792-2-ND	1.5V, 150mA Low Voltage µCap Reg.	6-MLF	3060.00/5,000		
MIC5247-1.8YD5 TR	576-3007-1-ND	1.8V, 150mA Low Voltage µCap Reg.	TSOT-23-5	1.14	.95	.76
MIC5247-1.8YD5 TR	576-3007-2-ND	1.8V, 150mA Low Voltage µCap Reg.	TSOT-23-5	1482.00/3,000		
MIC5247-1.8YM5 TR	576-1288-1-ND	1.8V, 150mA Low Voltage µCap Reg.	SOT-23-5	1.08	.90	.72
MIC5247-1.8YM5 TR	576-1288-2-ND	1.8V, 150mA Low Voltage µCap Reg.	SOT-23-5	1404.00/3,000		
MIC5247-1.85YM5 TR	576-2793-1-ND	1.85V, 150mA Low Voltage µCap Reg.	SOT-23-5	1.08	.90	.72
MIC5247-1.85YM5 TR	576-2793-2-ND	1.85V, 150mA Low Voltage µCap Reg.	SOT-23-5	1404.00/3,000		
MIC5247-1.85YML TR	576-2794-1-ND	1.85V, 150mA Low Voltage µCap Reg.	6-MLF	1.44	1.20	.96
MIC5247-1.85YML TR	576-2794-2-ND	1.85V, 150mA Low Voltage µCap Reg.	6-MLF	3060.00/5,000		
MIC5247-1.8YML TR	576-2795-1-ND	1.8V, 150mA Low Voltage µCap Reg.	6-MLF	1.44	1.20	.96
MIC5247-1.8YML TR	576-2795-2-ND	1.8V, 150mA Low Voltage µCap Reg.	6-MLF	3060.00/5,000		
MIC5247-2.0YD5 TR	576-2796-1-ND	2.0V, 150mA Low Voltage µCap Reg.	TSOT-23-5	1.14	.95	.76
MIC5247-2.0YD5 TR	576-2796-2-ND	2.0V, 150mA Low Voltage µCap Reg.	TSOT-23-5	1482.00/3,000		
MIC5247-2.0YM5 TR	576-2797-1-ND	2.0V, 150mA Low Voltage µCap Reg.	SOT-23-5	1.08	.90	.72
MIC5247-2.0YM5 TR	576-2797-2-ND	2.0V, 150mA Low Voltage µCap Reg.	SOT-23-5	1404.00/3,000		
MIC5248-1.2YM5 TR	576-2798-1-ND	1.2V, 150mA µCap CMOS LDO Regulator	SOT-23-5	.99	.83	.66
MIC5248-1.2YM5 TR	576-2798-2-ND	1.2V, 150mA µCap CMOS LDO Regulator	SOT-23-5	1287.00/3,000		
MIC5248-1.2YML TR	576-2799-1-ND	1.2V, 150mA µCap CMOS LDO Regulator	6-MLF	1.05	.88	.70
MIC5248-1.2YML TR	576-2799-2-ND	1.2V, 150mA µCap CMOS LDO Regulator	6-MLF	2230.00/5,000		
MIC5249-3.0YMM	576-1839-5-ND	3.0V, 300mA µCap LDO with Programmable Power-On Reset Delay	8-MSOP	1.45	1.16	.87
MIC5249-3.3YMM	576-2399-ND	3.3V, 300mA µCap LDO with Programmable Power-On Reset Delay	8-MSOP	1.45	1.16	.87
MIC5252-1.8YM5 TR	576-2800-1-ND	1.8V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1.17	.98	.78
MIC5252-1.8YM5 TR	576-2800-2-ND	1.8V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1521.00/3,000		
MIC5252-2.85YM5 TR	576-2801-1-ND	2.85V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1.17	.98	.78
MIC5252-2.85YM5 TR	576-2801-2-ND	2.85V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1521.00/3,000		
MIC5252-2.85YML TR	576-2802-1-ND	2.85V, 150mA Low Noise µCap LDO Reg.	6-MLF	1.30	1.04	.78
MIC5252-2.85YML TR	576-2802-2-ND	2.85V, 150mA Low Noise µCap LDO Reg.	6-MLF	3250.00/5,000		
MIC5252-2.8YML TR	576-2803-1-ND	2.8V, 150mA Low Noise µCap LDO Reg.	6-MLF	1.30	1.04	.78
MIC5252-2.8YML TR	576-2803-2-ND	2.8V, 150mA Low Noise µCap LDO Reg.	6-MLF	3250.00/5,000		
MIC5252-3.0YML TR	576-2804-1-ND	3.0V, 150mA Low Noise µCap LDO Reg.	6-MLF	1.30	1.04	.78
MIC5252-3.0YML TR	576-2804-2-ND	3.0V, 150mA Low Noise µCap LDO Reg.	6-MLF	3250.00/5,000		
MIC5252-4.75YM5 TR	576-2805-1-ND	4.75V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1.17	.98	.78
MIC5252-4.75YM5 TR	576-2805-2-ND	4.75V, 150mA Low Noise µCap LDO Reg.	SOT-23-5	1521.00/3,000		
MIC5253-1.85YC5 TR	576-2806-1-ND	1.85V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-1.85YC5 TR	576-2806-2-ND	1.85V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5253-1.8YC5 TR	576-2807-1-ND	1.8V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-1.8YC5 TR	576-2807-2-ND	1.8V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5253-2.6YC5 TR	576-2808-1-ND	2.6V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-2.6YC5 TR	576-2808-2-ND	2.6V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5253-2.8YC5 TR	576-2809-1-ND	2.8V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-2.8YC5 TR	576-2809-2-ND	2.8V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5253-2.9YC5 TR	576-2810-1-ND	2.9V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-2.9YC5 TR	576-2810-2-ND	2.9V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5253-3.3YC5	576-1289-1-ND	3.3V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1.29	1.08	.86
MIC5253-3.3YC5	576-1289-2-ND	3.3V, 100mA LN µCap Teeny LDO Reg.	SC70-5	1677.00/3,000		
MIC5254-SJYMM	576-1840-5-ND	3.3V/2.5V, Dual 150mA µCap LDO Reg.	10-MSOP	2.03	1.62	1.22
MIC5255-2.5YD5 TR	576-2811-1-ND	2.5V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1.05	.88	.70
MIC5255-2.5YD5 TR	576-2811-2-ND	2.5V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1365.00/3,000		
MIC5255-2.5YM5 TR	576-2812-1-ND	2.5V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.5YM5 TR	576-2812-2-ND	2.5V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.6YM5 TR	576-2813-1-ND	2.6V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.6YM5 TR	576-2813-2-ND	2.6V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.75YM5 TR	576-2814-1-ND	2.75V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.75YM5 TR	576-2814-2-ND	2.75V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.7YM5 TR	576-2815-1-ND	2.7V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.7YM5 TR	576-2815-2-ND	2.7V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.85YM5 TR	576-2816-1-ND	2.85V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.85YM5 TR	576-2816-2-ND	2.85V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.85YML TR	576-2817-1-ND	2.85V, 150mA LN µCap CMOS LDO Reg.	6-MLF	1.44	1.20	.96
MIC5255-2.85YML TR	576-2817-2-ND	2.85V, 150mA LN µCap CMOS LDO Reg.	6-MLF	3060.00/5,000		
MIC5255-2.8YD5 TR	576-2818-1-ND	2.8V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1.05	.88	.70
MIC5255-2.8YD5 TR	576-2818-2-ND	2.8V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1365.00/3,000		
MIC5255-2.8YM5 TR	576-2819-1-ND	2.8V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.8YM5 TR	576-2819-2-ND	2.8V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-2.9YM5 TR	576-2820-1-ND	2.9V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-2.9YM5 TR	576-2820-2-ND	2.9V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-3.0YD5 TR	576-2821-1-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1.05	.88	.70
MIC5255-3.0YD5 TR	576-2821-2-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1365.00/3,000		
MIC5255-3.0YM5 TR	576-2822-1-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-3.0YM5 TR	576-2822-2-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-3.0YML TR	576-2823-1-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	6-MLF	1.44	1.20	.96
MIC5255-3.0YML TR	576-2823-2-ND	3.0V, 150mA LN µCap CMOS LDO Reg.	6-MLF	3060.00/5,000		
MIC5255-3.1YM5 TR	576-2824-1-ND	3.1V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-3.1YM5 TR	576-2824-2-ND	3.1V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-3.3YD5 TR	576-2825-1-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1.05	.88	.70
MIC5255-3.3YD5 TR	576-2825-2-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	TSOT-23-5	1365.00/3,000		
MIC5255-3.3YM5 TR	576-1290-1-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.05	.88	.70
MIC5255-3.3YM5 TR	576-1290-2-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1365.00/3,000		
MIC5255-3.3YML TR	576-2826-1-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	6-MLF	1.44	1.20	.96
MIC5255-3.3YML TR	576-2826-2-ND	3.3V, 150mA LN µCap CMOS LDO Reg.	6-MLF	3060.00/5,000		
MIC5256-1.5YM5 TR	576-3123-1-ND	1.5V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1.17	.98	.78
MIC5256-1.5YM5 TR	576-3123-2-ND	1.5V, 150mA LN µCap CMOS LDO Reg.	SOT-23-5	1521.00/3,000		
MIC5256-2.5YM5 TR	576-1291-1-ND	2.5V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-2.5YM5 TR	576-1291-2-ND	2.5V, 150mA µCap LDO w/Error Flag	SOT-23-5	1521.00/3,000		
MIC5256-2.6YM5 TR	576-1841-1-ND	2.6V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-2.6YM5 TR	576-1841-2-ND	2.6V, 150mA µCap LDO w/Error Flag	SOT-23-5	1521.00/3,000		
MIC5256-2.8YM5 TR	576-2827-1-ND	2.8V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-2.8YM5 TR	576-2827-2-ND	2.8V, 150mA µCap LDO w/Error Flag	SOT-23-5	1521.00/3,000		
MIC5256-2.85YM5 TR	576-1842-1-ND	2.85V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-2.85YM5 TR	576-1842-2-ND	2.85V, 150mA µCap LDO w/Error Flag	SOT-23-5	1521.00/3,000		
MIC5256-3.0YM5 TR	576-1292-1-ND	3V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-3.3YM5 TR	576-1293-1-ND	3.3V, 150mA µCap LDO w/Error Flag	SOT-23-5	1.17	.98	.78
MIC5256-3.3YM5 TR	576-1293-2-ND	3.3V, 150mA µCap LDO w/Error Flag	SOT-23-5	1521.00/3,000		
MIC5258-1.2YM5 TR	576-2828-1-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good	SOT-23-5	1.05	.88	.70
MIC5258-1.2YM5 TR	576-2828-2-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good	SOT-23-5	1365.00/3,000		
MIC5259-1.8YML TR	576-2829-1-ND	1.8V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	1.53	1.22	.92
MIC5259-1.8YML TR	576-2829-2-ND	1.8V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	3815.00/5,000		
MIC5259-2.5YD5 TR	576-2830-1-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	1.43	1.14	.86
MIC5259-2.5YD5 TR	576-2830-2-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	2190.00/3,000		
MIC5259-2.5YML TR	576-2831-1-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	1.53	1.22	.92
MIC5259-2.5YML TR	576-2831-2-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	3815.00/5,000		
MIC5259-2.85YD5 TR	576-1843-1-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	1.43	1.14	.86
MIC5259-2.85YD5 TR	576-1843-2-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	2190.00/3,000		
MIC5259-2.85YML TR	576-2832-1-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	1.53	1.22	.92
MIC5259-2.85YML TR	576-2832-2-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	3815.00/5,000		
MIC5259-3.0YML TR	576-1844-1-ND	3.0V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	1.53	1.22	.92
MIC5259-3.0YML TR	576-1844-2-ND	3.0V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	3815.00/5,000		
MIC5259-3.3YD5 TR	576-2833-1-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	1.43	1.14	.86
MIC5259-3.3YD5 TR	576-2833-2-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator	TSOT-23-5	2190.00/3,000		
MIC5259-3.3YML TR	576-2834-1-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	1.53	1.22	.92
MIC5259-3.3YML TR	576-2834-2-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator	6-MLF	3815.00/5,000		
MIC5264-KKYML TR	576-1845-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.35	1.13	.90
MIC5264-KKYML TR	576-1845-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2870.00/5,000		
MIC5264-MFYML TR	576-1438-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.35	1.13	.90
MIC5264-MFYML TR	576-1438-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2870.00/5,000		
MIC5264-MGYML TR	576-1846-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.35	1.13	.90
MIC5264-MGYML TR	576-1846-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2870.00/5,000		
MIC5264-MMYML TR	576-1847-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.35	1.13	.90
MIC5264-MMYML TR	576-1847-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2870.00/5,000		
MIC5264-PGYML TR	576-1848-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.35	1.13	.90
MIC5264-PGYML TR	576-1848-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2870.00/5,000		
MIC5265-1.5YD5 TR	576-1849-1-ND	1.5V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-1.5YD5 TR	576-1849-2-ND	1.5V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-1.8YD5 TR	576-1439-1-ND	1.8V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43

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Micrel	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
MIC5265-1.8YD5 TR	576-1439-2-ND	1.8V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-1.85YD5 TR	576-1850-1-ND	1.85V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-1.85YD5 TR	576-1850-2-ND	1.85V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-2.5YD5 TR	576-1851-1-ND	2.5V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-2.5YD5 TR	576-1851-2-ND	2.5V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-2.7YD5 TR	576-1852-1-ND	2.7V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-2.7YD5 TR	576-1852-2-ND	2.7V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-2.8YD5 TR	576-1854-1-ND	2.8V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-2.8YD5 TR	576-1854-2-ND	2.8V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-2.85YD5 TR	576-1853-1-ND	2.85V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-2.85YD5 TR	576-1853-2-ND	2.85V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-2.9YD5 TR	576-1855-1-ND	2.9V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-2.9YD5 TR	576-1855-2-ND	2.9V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-3.0YD5 TR	576-1856-1-ND	3.0V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-3.0YD5 TR	576-1856-2-ND	3.0V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5265-3.3YD5 TR	576-2835-1-ND	3.3V, 150mA µCap LDO Regulator	TSOT-23-5	.76	.57	.43
MIC5265-3.3YD5 TR	576-2835-2-ND	3.3V, 150mA µCap LDO Regulator	TSOT-23-5	741.00/3,000		
MIC5268-1.2YM5 TR	576-2836-1-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good	SOT-23-5	.96	.80	.64
MIC5268-1.2YM5 TR	576-2836-2-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good	SOT-23-5	1248.00/3,000		
MIC5270-3.0YM5 TR	576-2837-1-ND	-3.0V, 100mA µCap Neg. LDO Regulator	SOT-23-5	2.66	2.13	1.66
MIC5270-3.0YM5 TR	576-2837-2-ND	-3.0V, 100mA µCap Neg. LDO Regulator	SOT-23-5	4461.00/3,000		
MIC5270-4.1YM5 TR	576-2838-1-ND	-4.1V, 100mA µCap Neg. LDO Regulator	SOT-23-5	2.66	2.13	1.66
MIC5270-4.1YM5 TR	576-2838-2-ND	-4.1V, 100mA µCap Neg. LDO Regulator	SOT-23-5	4461.00/3,000		
MIC5270-5.0YM5 TR	576-1294-1-ND	–5V, µCap Negative LDO Regulator	SOT-23-5	2.66	2.13	1.66
MIC5270-5.0YM5 TR	576-1294-2-ND	–5V, µCap Negative LDO Regulator	SOT-23-5	4461.00/3,000		
MIC5270YM5 TR	576-1295-1-ND	Adj., µCap Negative LDO Regulator	SOT-23-5	2.66	2.13	1.66
MIC5270YM5 TR	576-1295-2-ND	Adj., µCap Negative LDO Regulator	SOT-23-5	4461.00/3,000		
MIC5271YM5 TR	576-2839-1-ND	Adj., 100mA µCap Neg. LDO Regulator	SOT-23-5	2.90	2.33	1.81
MIC5271YM5 TR	576-2839-2-ND	Adj., 100mA µCap Neg. LDO Regulator	SOT-23-5	4875.00/3,000		
MIC5271-5.0YM5 TR	576-1857-1-ND	5.0V, 100mA µCap Neg. LDO Regulator	SOT-23-5	2.90	2.33	1.81
MIC5271-5.0YM5 TR	576-1857-2-ND	5.0V, 100mA µCap Neg. LDO Regulator	SOT-23-5	4875.00/3,000		
MIC5280YME	576-3125-5-ND	Adj., 25mA Single µCap ULDO Regulator	8-eSOIC	2.40	1.92	1.44
MIC5301-1.5YD5 TR	576-1858-1-ND	1.5V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301-1.5YD5 TR	576-1858-2-ND	1.5V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5301-1.8YD5 TR	576-1859-1-ND	1.8V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301-1.8YD5 TR	576-1859-2-ND	1.8V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5301-2.1YMT TR	576-1860-1-ND	2.1V, 150mA Single µCap ULDO Reg.	6-MLF	1.44	1.20	.96
MIC5301-2.1YMT TR	576-1860-2-ND	2.1V, 150mA Single µCap ULDO Reg.	6-MLF	3060.00/5,000		
MIC5301-2.85YML TR	576-1861-1-ND	2.85V, 150mA Single µCap ULDO Reg.	6-MLF	1.44	1.20	.96
MIC5301-2.85YML TR	576-1861-2-ND	2.85V, 150mA Single µCap ULDO Reg.	6-MLF	3060.00/5,000		
MIC5301-2.85YD5 TR	576-1593-1-ND	2.85V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301-2.85YD5 TR	576-1593-2-ND	2.85V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5301-3.0YD5 TR	576-1862-1-ND	3.0V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301-3.0YD5 TR	576-1862-2-ND	3.0V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5301-3.3YD5 TR	576-2840-1-ND	3.3V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301-3.3YD5 TR	576-2840-2-ND	3.3V, 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5301-4.6YMT TR	576-1863-1-ND	4.6V, 150mA Single µCap ULDO Reg.	6-MLF	1.44	1.20	.96
MIC5301-4.6YMT TR	576-1863-2-ND	4.6V, 150mA Single µCap ULDO Reg.	6-MLF	3060.00/5,000		
MIC5301YML TR	576-1865-1-ND	Adj., 150mA Single µCap ULDO Reg.	6-MLF	1.44	1.20	.96
MIC5301YML TR	576-1865-2-ND	Adj., 150mA Single µCap ULDO Reg.	6-MLF	3060.00/5,000		
MIC5301YD5 TR	576-1864-1-ND	Adj., 150mA Single µCap ULDO Reg.	TSOT-23-5	1.32	1.10	.88
MIC5301YD5 TR	576-1864-2-ND	Adj., 150mA Single µCap ULDO Reg.	TSOT-23-5	1716.00/3,000		
MIC5302-1.8YMT TR	576-1608-1-ND	1.8V, 150mA CMOS ULDO Regulator	14-MLF	1.14	.95	.76
MIC5302-1.8YMT TR	576-1608-2-ND	1.8V, 150mA CMOS ULDO Regulator	14-MLF	2425.00/5,000		
MIC5302-2.1YMT TR	576-2841-1-ND	2.1V, 150mA CMOS ULDO Regulator	4-MLF	1.14	.95	.76
MIC5302-2.1YMT TR	576-2841-2-ND	2.1V, 150mA CMOS ULDO Regulator	4-MLF	2425.00/5,000		
MIC5302-2.5YMT TR	576-2842-1-ND	2.5V, 150mA CMOS ULDO Regulator	4-TMLF	1.14	.95	.76
MIC5302-2.5YMT TR	576-2842-2-ND	2.5V, 150mA CMOS ULDO Regulator	4-TMLF	2425.00/5,000		
MIC5302-2.85YMT TR	576-2843-1-ND	2.85V, 150mA CMOS ULDO Regulator	4-MLF	1.14	.95	.76
MIC5302-2.85YMT TR	576-2843-2-ND	2.85V, 150mA CMOS ULDO Regulator	4-MLF	2425.00/5,000		
MIC5302-2.8YMT TR	576-2844-1-ND	2.8V, 150mA CMOS ULDO Regulator	4-MLF	1.14	.95	.76
MIC5302-2.8YMT TR	576-2844-2-ND	2.8V, 150mA CMOS ULDO Regulator	4-MLF	2425.00/5,000		
MIC5302-3.0YMT TR	576-2845-1-ND	3.0V, 150mA CMOS ULDO Regulator	4-MLF	1.14	.95	.76
MIC5302-3.0YMT TR	576-2845-2-ND	3.0V, 150mA CMOS ULDO Regulator	4-MLF	2425.00/5,000		
MIC5302-3.3YMT TR	576-1866-1-ND	3.3V, 150mA CMOS ULDO Regulator	4-MLF	1.14	.95	.76
MIC5302-3.3YMT TR	576-1866-2-ND	3.3V, 150mA CMOS ULDO Regulator	4-MLF	2425.00/5,000		
MIC5303-1.5YMT TR	576-1867-1-ND	1.5V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	1.32	1.10	.88
MIC5303-1.5YMT TR	576-1867-2-ND	1.5V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	2805.00/5,000		
MIC5303-1.8YMT TR	576-1609-1-ND	1.8V, 300mA Single CMOS Ultra Small ULDO Regulator	14-MLF	1.32	1.10	.88
MIC5303-1.8YMT TR	576-1609-2-ND	1.8V, 300mA Single CMOS Ultra Small ULDO Regulator	14-MLF	2805.00/5,000		
MIC5303-2.5YMT TR	576-1868-1-ND	2.5V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	1.32	1.10	.88
MIC5303-2.5YMT TR	576-1868-2-ND	2.5V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	2805.00/5,000		
MIC5303-2.8YMT TR	576-1869-1-ND	2.8V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	1.32	1.10	.88
MIC5303-2.8YMT TR	576-1869-2-ND	2.8V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	2805.00/5,000		
MIC5303-3.0YMT TR	576-2846-1-ND	3.0V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	1.32	1.10	.88
MIC5303-3.0YMT TR	576-2846-2-ND	3.0V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	2805.00/5,000		
MIC5303-3.3YMT TR	576-2847-1-ND	3.3V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	1.32	1.10	.88
MIC5303-3.3YMT TR	576-2847-2-ND	3.3V, 300mA Single CMOS Ultra Small ULDO Regulator	4-MLF	2805.00/5,000		
MIC5304-RGYMT TR	576-3126-1-ND	Single, 150mA Low Iq LDO Regulator with Vselect	6-TMLF	.93	.78	.62
MIC5304-RGYMT TR	576-3126-2-ND	Single, 150mA Low Iq LDO Regulator with Vselect	6-TMLF	1975.00/5,000		
MIC5304-XDYMT TR	576-3127-1-ND	Single, 150mA Low Iq LDO Regulator with Vselect	6-TMLF	.93	.78	.62
MIC5304-XDYMT TR	576-3127-2-ND	Single, 150mA Low Iq LDO Regulator with Vselect	6-TMLF	1975.00/5,000		
MIC5304-XGHYMT TR	576-3523-1-ND	Single, 150mA Low Iq LDO Regulator with Vselect ***NEW!***	6-TMLF	.93	.78	.62
MIC5304-XGHYMT TR	576-3523-2-ND	Single, 150mA Low Iq LDO Regulator with Vselect ***NEW!***	6-TMLF	1975.00/5,000		
MIC5305-1.5YD5 TR	576-1870-1-ND	1.5V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-1.5YD5 TR	576-1870-2-ND	1.5V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-1.5YML TR	576-2848-1-ND	1.5V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-1.5YML TR	576-2848-2-ND	1.5V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		

Micrel	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
MIC5305-1.8YD5	576-1296-1-ND	1.8V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-1.8YD5	576-1296-2-ND	1.8V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-1.8YML TR	576-1871-1-ND	1.8V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-1.8YML TR	576-1871-2-ND	1.8V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.0YML TR	576-2849-1-ND	2.0V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-2.0YML TR	576-2849-2-ND	2.0V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.5YML TR	576-1873-1-ND	2.5V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-2.5YML TR	576-1873-2-ND	2.5V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.5YD5 TR	576-1872-1-ND	2.5V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-2.5YD5 TR	576-1872-2-ND	2.5V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-2.6YML TR	576-1874-1-ND	2.6V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-2.6YML TR	576-1874-2-ND	2.6V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.8YML TR	576-1876-1-ND	2.8V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-2.8YML TR	576-1876-2-ND	2.8V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.8YMT TR	576-1877-1-ND	2.8V, 150mA µCap ULDO Regulator	6-TMLF	1.75	1.40	1.05
MIC5305-2.8YMT TR	576-1877-2-ND	2.8V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.8YD5 TR	576-2851-1-ND	2.8V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-2.8YD5 TR	576-2851-2-ND	2.8V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-2.85YML TR	576-1875-1-ND	2.85V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-2.85YML TR	576-1875-2-ND	2.85V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-2.85YD5 TR	576-2850-1-ND	2.85V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-2.85YD5 TR	576-2850-2-ND	2.85V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-2.9YD5 TR	576-1878-1-ND	2.9V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-2.9YD5 TR	576-1878-2-ND	2.9V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-3.0YML TR	576-1879-1-ND	3.0V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-3.0YML TR	576-1879-2-ND	3.0V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-3.0YD5	576-1297-1-ND	3V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-3.0YD5	576-1297-2-ND	3V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-3.3YD5	576-1298-1-ND	3.3V, 150mA µCap ULDO Regulator	TSOT-23-5	1.65	1.32	.99
MIC5305-3.3YD5	576-1298-2-ND	3.3V, 150mA µCap ULDO Regulator	TSOT-23-5	2535.00/3,000		
MIC5305-3.3YML TR	576-2852-1-ND	3.3V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-3.3YML TR	576-2852-2-ND	3.3V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305-4.6YMT TR	576-1880-1-ND	4.6V, 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305-4.6YMT TR	576-1880-2-ND	4.6V, 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5305YML TR	576-1881-1-ND	Adj., 150mA µCap ULDO Regulator	6-MLF	1.75	1.40	1.05
MIC5305YML TR	576-1881-2-ND	Adj., 150mA µCap ULDO Regulator	6-MLF	4375.00/5,000		
MIC5306-1.8YD5 TR	576-2853-1-ND	1.8V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.35	1.13	.90
MIC5306-1.8YD5 TR	576-2853-2-ND	1.8V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1755.00/3,000		
MIC5306-2.5YD5 TR	576-2854-1-ND	2.5V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.35	1.13	.90
MIC5306-2.5YD5 TR	576-2854-2-ND	2.5V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1755.00/3,000		
MIC5306-2.8YD5 TR	576-1882-1-ND	2.8V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.35	1.13	.90
MIC5306-2.8YD5 TR	576-1882-2-ND	2.8V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1755.00/3,000		
MIC5306-3.0YD5 TR	576-3012-1-ND	3.0V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.35	1.13	.90
MIC5306-3.0YD5 TR	576-3012-2-ND	3.0V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1755.00/3,000		
MIC5306-3.1YD5 TR	576-3031-1-ND	3.1V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.35	1.13	.90
MIC5306-3.1YD5 TR	576-3031-2-ND	3.1V, 150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1755.00/3,000		
MIC5307-1.8YD5 TR	576-1883-1-ND	1.8V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.41	1.18	.94
MIC5307-1.8YD5 TR	576-1883-2-ND	1.8V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1833.00/3,000		
MIC5307-2.8YD5 TR	576-1610-1-ND	2.8V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.41	1.18	.94
MIC5307-2.8YD5 TR	576-1610-2-ND	2.8V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1833.00/3,000		
MIC5307-3.0YD5 TR	576-2855-1-ND	3.0V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.41	1.18	.94
MIC5307-3.0YD5 TR	576-2855-2-ND	3.0V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1833.00/3,000		
MIC5308-1.2YD6 TR	576-3043-1-ND	1.2V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.28	1.02	.77
MIC5308-1.2YD6 TR	576-3043-2-ND	1.2V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1959.00/3,000		
MIC5308-1.5YD6 TR	576-3074-1-ND	1.5V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.28	1.02	.77
MIC5308-1.5YD6 TR	576-3074-2-ND	1.5V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1959.00/3,000		
MIC5308-1.8YD6 TR	576-3064-1-ND	1.8V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.28	1.02	.77
MIC5308-1.8YD6 TR	576-3064-2-ND	1.8V, 150mA High PSRR µCap ULDO Regulator	TSOT-23-6	1959.00/3,000		
MIC5308YD6 TR	576-3023-1-ND	Adj., 150mA High PSRR µCap ULDO Reg.	TSOT-23-6	1.28	1.02	.77
MIC5308YD6 TR	576-3023-2-ND	Adj., 150mA High PSRR µCap ULDO Reg.	TSOT-23-6	1959.00/3,000		
MIC5308-1.2YMT TR	576-3051-1-ND	1.2V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	1.28	1.02	.77
MIC5308-1.2YMT TR	576-3051-2-ND	1.2V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	3190.00/5,000		
MIC5308-1.5YMT TR	576-3065-1-ND	1.5V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	1.28	1.02	.77
MIC5308-1.5YMT TR	576-3065-2-ND	1.5V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	3190.00/5,000		
MIC5308-1.8YMT TR	576-3066-1-ND	1.8V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	1.28	1.02	.77
MIC5308-1.8YMT TR	576-3066-2-ND	1.8V, 150mA High PSRR µCap ULDO Regulator	6-TMLF	3190.00/5,000		
MIC5308YMT TR	576-3009-1-ND	Adj., 150mA High PSRR µCap ULDO Reg.	6-TMLF	1.28	1.02	.77
MIC5308YMT TR	576-3009-2-ND	Adj., 150mA High PSRR µCap ULDO Reg.	6-TMLF	3190.00/5,000		
MIC5309-1.2YD6 TR	576-3002-1-ND	1.2V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.53	1.22	.92
MIC5309-1.2YD6 TR	576-3002-2-ND	1.2V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	2343.00/3,000		
MIC5309-1.5YD6 TR	576-3004-1-ND	1.5V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.53	1.22	.92
MIC5309-1.5YD6 TR	576-3004-2-ND	1.5V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	2343.00/3,000		
MIC5309-1.8YD6 TR	576-3010-1-ND	1.8V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	1.53	1.22	.92
MIC5309-1.8YD6 TR	576-3010-2-ND	1.8V, 300mA High PSRR µCap ULDO Regulator	TSOT-23-6	2343.00/3,000		

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(Continued)

LDO REGULATORS

Digi-Reel® (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5309YD6 TR	576-3039-1-ND	Adj., 300mA High PSRR µCap ULDO Reg.	TSOT-23-6	1.53	1.22	.92
MIC5309YD6 TR	576-3039-2-ND	Adj., 300mA High PSRR µCap ULDO Reg.	TSOT-23-6	2343.00/3,000		
MIC5309-1.2YMT TR	576-3050-1-ND	1.2V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5309-1.2YMT TR	576-3050-2-ND	1.2V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5309-1.5YMT TR	576-3047-1-ND	1.5V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5309-1.5YMT TR	576-3047-2-ND	1.5V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5309-1.8YMT TR	576-3020-1-ND	1.8V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5309-1.8YMT TR	576-3020-2-ND	1.8V, 300mA High PSRR µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5309YMT TR	576-3019-1-ND	Adj., 300mA High PSRR µCap ULDO Reg.	6-TMLF	1.53	1.22	.92
MIC5309YMT TR	576-3019-2-ND	Adj., 300mA High PSRR µCap ULDO Reg.	6-TMLF	3815.00/5,000		
MIC5310-GFYML TR	576-1884-1-ND	1.8V/1.5V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-GFYML TR	576-1884-2-ND	1.8V/1.5V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-KDYML TR	576-1885-1-ND	2.6V/1.85V, Dual 150mA µCap ULDO Regulator	8-MLF	1.58	1.26	.95
MIC5310-KDYML TR	576-1885-2-ND	2.6V/1.85V, Dual 150mA µCap ULDO Regulator	8-MLF	3940.00/5,000		
MIC5310-KGYML TR	576-1886-1-ND	2.6V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-KGYML TR	576-1886-2-ND	2.6V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-MFYML TR	576-2856-1-ND	2.8V/1.5V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-MFYML TR	576-2856-2-ND	2.8V/1.5V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-MGYML TR	576-1566-1-ND	2.8V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-MKYML TR	576-1887-1-ND	2.8V/2.6V Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-MKYML TR	576-1887-2-ND	2.8V/2.6V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-MMYML TR	576-1888-1-ND	2.8V/2.8V Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-MMYML TR	576-1888-2-ND	2.8V/2.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-NDYML TR	576-1889-1-ND	2.85V/1.85V, Dual 150mA µCap ULDO Regulator	8-MLF	1.58	1.26	.95
MIC5310-NDYML TR	576-1889-2-ND	2.85V/1.85V, Dual 150mA µCap ULDO Regulator	8-MLF	3940.00/5,000		
MIC5310-NKYML TR	576-1890-1-ND	2.85V/2.6V, Dual 150mA µCap ULDO Regulator	8-MLF	1.58	1.26	.95
MIC5310-NKYML TR	576-1890-2-ND	2.85V/2.6V, Dual 150mA µCap ULDO Regulator	8-MLF	3940.00/5,000		
MIC5310-NNYML TR	576-1891-1-ND	2.85V/2.85V, Dual 150mA µCap ULDO Regulator	8-MLF	1.58	1.26	.95
MIC5310-NNYML TR	576-1891-2-ND	2.85V/2.85V, Dual 150mA µCap ULDO Regulator	8-MLF	3940.00/5,000		
MIC5310-OGYML TR	576-1893-1-ND	2.9V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-OGYML TR	576-1893-2-ND	2.9V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-OOYML TR	576-1894-1-ND	2.9V/2.9V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-OOYML TR	576-1894-2-ND	2.9V/2.9V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-PGYML TR	576-1567-1-ND	3.0V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-PGYML TR	576-1567-2-ND	3.0V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-PKYML TR	576-1895-1-ND	3.0V/2.6V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-PKYML TR	576-1895-2-ND	3.0V/2.6V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-PNYML TR	576-2857-1-ND	3.0V/2.85V, Dual 150mA µCap ULDO Regulator	8-MLF	1.58	1.26	.95
MIC5310-PNYML TR	576-2857-2-ND	3.0V/2.85V, Dual 150mA µCap ULDO Regulator	8-MLF	3940.00/5,000		
MIC5310-PPYML TR	576-1896-1-ND	3.0V/3.0V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-PPYML TR	576-1896-2-ND	3.0V/3.0V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-SGYML TR	576-1897-1-ND	3.3V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-SGYML TR	576-1897-2-ND	3.3V/1.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-SKYML TR	576-1898-1-ND	3.3V/2.6V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-SKYML TR	576-1898-2-ND	3.3V/2.6V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-SMYML TR	576-1899-1-ND	3.3V/2.8V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-SMYML TR	576-1899-2-ND	3.3V/2.8V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-SRYML TR	576-1900-1-ND	3.3V/3.2V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-SRYML TR	576-1900-2-ND	3.3V/3.2V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5310-SSYML TR	576-1901-1-ND	3.3V/3.3V, Dual 150mA µCap ULDO Reg.	8-MLF	1.58	1.26	.95
MIC5310-SSYML TR	576-1901-2-ND	3.3V/3.3V, Dual 150mA µCap ULDO Reg.	8-MLF	3940.00/5,000		
MIC5311-NYML TR	576-1902-1-ND	2.85V/2.7V, 300mA LowQ Mode Dual LDO Regulator	10-MLF	2.59	2.07	1.61
MIC5311-NYML TR	576-1902-2-ND	2.85V/2.7V, 300mA LowQ Mode Dual LDO Regulator	10-MLF	7190.00/5,000		
MIC5313-F3YMT TR	576-3128-1-ND	1.5V/1.1V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-F3YMT TR	576-3128-2-ND	1.5V/1.1V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-F4YMT TR	576-3129-1-ND	1.5V/1.2V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-F4YMT TR	576-3129-2-ND	1.5V/1.2V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-F5YMT TR	576-3130-1-ND	1.5V/1.3V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-F5YMT TR	576-3130-2-ND	1.5V/1.3V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-F6YMT TR	576-3131-1-ND	1.5V/1.4V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-F6YMT TR	576-3131-2-ND	1.5V/1.4V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-FCYMT TR	576-3132-1-ND	1.5V/1.0V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-FCYMT TR	576-3132-2-ND	1.5V/1.0V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-FFYMT TR	576-3248-1-ND	1.5V/1.5V 300mA Dual Low Voltage LDO Regulator	10-TMLF	3.04	2.43	1.89
MIC5313-FFYMT TR	576-3248-2-ND	1.5V/1.5V, 300mA Dual Low Voltage LDO Regulator	10-TMLF	8440.00/5,000		
MIC5313-G4YMT TR	576-3249-1-ND	1.8V/1.2V, 300mA Low Volt. LDO Reg.	10-TMLF	3.04	2.43	1.89
MIC5313-G4YMT TR	576-3249-2-ND	1.8V/1.2V, 300mA Low Volt. LDO Reg.	10-TMLF	8440.00/5,000		
MIC5313-GGYMT TR	576-3250-1-ND	1.8V/1.8V, 300mA Low Volt. LDO Reg.	10-TMLF	3.04	2.43	1.89
MIC5313-GGYMT TR	576-3250-2-ND	1.8V/1.8V, 300mA Low Voltage LDO Reg.	10-TMLF	8440.00/5,000		
MIC5314-F3YMT TR	576-3133-1-ND	1.5V/1.1V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-F3YMT TR	576-3133-2-ND	1.5V/1.1V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-F4YMT TR	576-3134-1-ND	1.5V/1.2V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-F4YMT TR	576-3134-2-ND	1.5V/1.2V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-F5YMT TR	576-3135-1-ND	1.5V/1.3V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-F5YMT TR	576-3135-2-ND	1.5V/1.3V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-F6YMT TR	576-3136-1-ND	1.5V/1.4V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-F6YMT TR	576-3136-2-ND	1.5V/1.4V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-FCYMT TR	576-3137-1-ND	1.5V/1.0V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-FCYMT TR	576-3137-2-ND	1.5V/1.0V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-FFYMT TR	576-3138-1-ND	1.5V/1.5V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-FFYMT TR	576-3138-2-ND	1.5V/1.5V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-G4YMT TR	576-3139-1-ND	1.8V/1.2V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-G4YMT TR	576-3139-2-ND	1.8V/1.2V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5314-GGYMT TR	576-3140-1-ND	1.8V/1.8V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	3.29	2.63	2.05
MIC5314-GGYMT TR	576-3140-2-ND	1.8V/1.8V, 300mA Low Voltage LDO Reg. with Power On Reset	12-TMLF	9125.00/5,000		
MIC5315-F4CYMT TR	576-3141-1-ND	1.2V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	3.29	2.63	2.05
MIC5315-F4CYMT TR	576-3141-2-ND	1.2V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	9125.00/5,000		
MIC5315-F5CYMT TR	576-3142-1-ND	1.3V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	3.29	2.63	2.05
MIC5315-F5CYMT TR	576-3142-2-ND	1.3V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	9125.00/5,000		
MIC5315-GGCYMT TR	576-3143-1-ND	1.8V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	3.29	2.63	2.05
MIC5315-GGCYMT TR	576-3143-2-ND	1.8V/1.0V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	9125.00/5,000		
MIC5315-GW3YMT TR	576-3144-1-ND	1.6V/1.1V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	3.29	2.63	2.05
MIC5315-GW3YMT TR	576-3144-2-ND	1.6V/1.1V, 300mA Low Voltage LDO Regulator with Vselect	10-TMLF	9125.00/5,000		
MIC5316-F4CYMT TR	576-3145-1-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	3.56	2.85	2.22
MIC5316-F4CYMT TR	576-3145-2-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	9875.00/5,000		
MIC5316-F5CYMT TR	576-3146-1-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	3.56	2.85	2.22
MIC5316-F5CYMT TR	576-3146-2-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	9875.00/5,000		
MIC5316-GGCYMT TR	576-3147-1-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	3.56	2.85	2.22
MIC5316-GGCYMT TR	576-3147-2-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	9875.00/5,000		
MIC5316-GW3YMT TR	576-3148-1-ND	300mA Dual Low Voltage LDO Reg. with Vselect/Power On Reset	12-TMLF	3.56	2.85	2.22
MIC5316-GW3YMT TR	576-3148-2-ND	300mA Dual Low Volt. LDO Reg. with Vselect/Power On Reset	12-TMLF	9875.00/5,000		
MIC5318-1.3YD5 TR	576-2981-1-ND	1.3V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1.32	1.10	.88
MIC5318-1.3YD5 TR	576-2981-2-ND	1.3V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1716.00/3,000		
MIC5318-1.5YD5 TR	576-2858-1-ND	1.5V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1.32	1.10	.88
MIC5318-1.5YD5 TR	576-2858-2-ND	1.5V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1716.00/3,000		
MIC5318-2.5YD5 TR	576-2859-1-ND	2.5V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1.32	1.10	.88
MIC5318-2.5YD5 TR	576-2859-2-ND	2.5V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1716.00/3,000		
MIC5318-3.3YD5 TR	576-2860-1-ND	3.3V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1.32	1.10	.88
MIC5318-3.3YD5 TR	576-2860-2-ND	3.3V, 300mA High Performance µCap ULDO Regulator	TSOT-23-5	1716.00/3,000		
MIC5318-3.3YMT TR	576-2861-1-ND	3.3V, 300mA High Performance µCap ULDO Regulator	6-TMLF	1.44	1.20	.96
MIC5318-3.3YMT TR	576-2861-2-ND	3.3V, 300mA High Performance µCap ULDO Regulator	6-TMLF	3060.00/5,000		
MIC5318YMT TR	576-2862-1-ND	Adj., 300mA High Performance µCap ULDO Regulator	6-TMLF	1.44	1.20	.96
MIC5318YMT TR	576-2862-2-ND	Adj., 300mA High Performance µCap ULDO Regulator	6-TMLF	3060.00/5,000		
MIC5319-1.3HYD5 TR	576-2863-1-ND	1.375V, 500mA High PSRR µCap ULDO Regulator	TSOT-23-5	2.48	1.98	1.49
MIC5319-1.3HYD5 TR	576-2863-2-ND	1.375V, 500mA High PSRR µCap ULDO Regulator	TSOT-23-5	3801.00/3,000		
MIC5319-1.8YD5 TR	576-2864-1-ND	1.8V, 500mA High PSRR µCap ULDO Regulator	TSOT-23-5	2.48	1.98	1.49
MIC5319-1.8YD5 TR	576-2864-2-ND	1.8V, 500mA High PSRR µCap ULDO Regulator	TSOT-23-5	3801.00/3,000		
MIC5319-1.8YML TR	576-1903-1-ND	1.8V, 500mA µCap High PSRR ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-1.8YML TR	576-1903-2-ND	1.8V, 500mA µCap High PSRR ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-2.5YML TR	576-1905-1-ND	2.5V, 500mA µCap High PSRR ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-2.5YML TR	576-1905-2-ND	2.5V, 500mA µCap High PSRR ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-2.5YD5 TR	576-1904-1-ND	2.5V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	2.48	1.98	1.49
MIC5319-2.5YD5 TR	576-1904-2-ND	2.5V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	3801.00/3,000		
MIC5319-2.6YD5 TR	576-1906-1-ND	2.6V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	2.48	1.98	1.49
MIC5319-2.6YD5 TR	576-1906-2-ND	2.6V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	3801.00/3,000		
MIC5319-2.6YML TR	576-2865-1-ND	2.6V, 500mA High PSRR µCap ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-2.6YML TR	576-2865-2-ND	2.6V, 500mA High PSRR µCap ULDO Regulator	6-MLF	6500.00/5,000		

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(Continued)

MICREL®
Innovation Through Technology™

DigiReel® (Cont.)

LDO REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5319-2.7YML TR	576-1907-1-ND	2.7V, 500mA µCap High PSRR ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-2.7YML TR	576-1907-2-ND	2.7V, 500mA µCap High PSRR ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-2.8YML TR	576-2866-1-ND	2.8V, 500mA High PSRR µCap ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-2.8YML TR	576-2866-2-ND	2.8V, 500mA High PSRR µCap ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-2.9YML TR	576-1908-1-ND	2.9V, 500mA 500mA µCap High PSRR ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-2.9YML TR	576-1908-2-ND	2.9V, 500mA 500mA µCap High PSRR ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-3.0YML TR	576-1909-1-ND	3.0V, 500mA 500mA µCap High PSRR ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-3.0YML TR	576-1909-2-ND	3.0V, 500mA 500mA µCap High PSRR ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-3.3YD5 TR	576-1910-1-ND	3.3V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	2.48	1.98	1.49
MIC5319-3.3YD5 TR	576-1910-2-ND	3.3V, 500mA µCap High PSRR ULDO Regulator	TSOT-23-5	3801.00/3,000		
MIC5319-3.3YML TR	576-2867-1-ND	3.3V, 500mA High PSRR µCap ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-3.3YML TR	576-2867-2-ND	3.3V, 500mA High PSRR µCap ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319-5.0YML TR	576-2868-1-ND	5.0V, 500mA High PSRR µCap ULDO Regulator	6-MLF	2.34	1.88	1.46
MIC5319-5.0YML TR	576-2868-2-ND	5.0V, 500mA High PSRR µCap ULDO Regulator	6-MLF	6500.00/5,000		
MIC5319YML TR	576-1299-1-ND	Adj., 500mA High PSSR µCap ULDO Reg.	6-MLF	2.34	1.88	1.46
MIC5319YML TR	576-1299-2-ND	Adj., 500mA High PSSR µCap ULDO Reg.	6-MLF	6500.00/5,000		
MIC5320-GFYD6 TR	576-1911-1-ND	1.8/1.5V, 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-GFYD6 TR	576-1911-2-ND	1.8/1.5V, 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-H4FYD6 TR	576-1912-1-ND	2.4V/1.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-H4FYD6 TR	576-1912-2-ND	2.4V/1.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-H4FYMT TR	576-2869-1-ND	2.4V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-H4FYMT TR	576-2869-2-ND	2.4V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-JGYML TR	576-1568-1-ND	2.5V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.68	1.34	1.01
MIC5320-KGYML TR	576-1913-1-ND	2.6V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.68	1.34	1.01
MIC5320-KGYML TR	576-1913-2-ND	2.6V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	4190.00/5,000		
MIC5320-KGYMT TR	576-2870-1-ND	2.6V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-KGYMT TR	576-2870-2-ND	2.6V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-MFYD6 TR	576-1914-1-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-MFYD6 TR	576-1914-2-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-MFYMT TR	576-2871-1-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-MFYMT TR	576-2871-2-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-MFYML TR	576-1915-1-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5320-MFYML TR	576-1915-2-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5320-MGYD6 TR	576-1916-1-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-MGYD6 TR	576-1916-2-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-MGYML TR	576-1917-1-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5320-MGYML TR	576-1917-2-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5320-MGYMT TR	576-2872-1-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-MGYMT TR	576-2872-2-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-MMYD6 TR	576-1918-1-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-MMYD6 TR	576-1918-2-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-MMYML TR	576-1919-1-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5320-MMYML TR	576-1919-2-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5320-MMYMT TR	576-1920-1-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-MMYMT TR	576-1920-2-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-NNYMT TR	576-1921-1-ND	2.85V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-NNYMT TR	576-1921-2-ND	2.85V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-PGYD6 TR	576-1922-1-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-PGYD6 TR	576-1922-2-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-PGYMT TR	576-1923-1-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-PGYMT TR	576-1923-2-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-PKYML TR	576-1924-1-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5320-PKYML TR	576-1924-2-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5320-PKYMT TR	576-2873-1-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-PKYMT TR	576-2873-2-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-PMYMT TR	576-2874-1-ND	3.0V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-PMYMT TR	576-2874-2-ND	3.0V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-PPYML TR	576-1569-1-ND	3.0V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5320-PNYMT TR	576-1925-1-ND	3.0V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-PNYMT TR	576-1925-2-ND	3.0V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SFYD6 TR	576-3483-1-ND	3.3V/1.5V 150mA Dual High Performance µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.40	1.12	.84
MIC5320-SFYD6 TR	576-3483-2-ND	3.3V/1.5V 150mA Dual High Performance µCap ULDO Regulator ***NEW!***	TSOT-23-6	2151.00/3,000		
MIC5320-SFYMT TR	576-1926-1-ND	3.3V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SFYMT TR	576-1926-2-ND	3.3V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SGYD6 TR	576-1658-1-ND	3.3V/1.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-SGYMT TR	576-2875-1-ND	3.3V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SGYMT TR	576-2875-2-ND	3.3V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SJYD6 TR	576-1927-1-ND	3.3V/2.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-SJYD6 TR	576-1927-2-ND	3.3V/2.5V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-SJYMT TR	576-1928-1-ND	3.3V/2.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SJYMT TR	576-1928-2-ND	3.3V/2.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SKYMT TR	576-1929-1-ND	3.3V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SKYMT TR	576-1929-2-ND	3.3V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SMYMT TR	576-1930-1-ND	3.3V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SMYMT TR	576-1930-2-ND	3.3V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5320-SSYD6 TR	576-1931-1-ND	3.3V/3.3V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5320-SSYD6 TR	576-1931-2-ND	3.3V/3.3V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5320-SPYMT TR	576-2876-1-ND	3.3V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5320-SPYMT TR	576-2876-2-ND	3.3V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5321-LLYMT TR	576-1932-1-ND	2.7V/2.7V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5321-LLYMT TR	576-1932-2-ND	2.7V/2.7V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5321-MMYD6 TR	576-1933-1-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5321-MMYD6 TR	576-1933-2-ND	2.8V/2.8V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5321-PGYMT TR	576-1934-1-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5321-PGYMT TR	576-1934-2-ND	3.0V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5321-PKYMT TR	576-2877-1-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.40	1.12	.84
MIC5321-PKYMT TR	576-2877-2-ND	3.0V/2.6V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3500.00/5,000		
MIC5321-PPYML TR	576-2878-1-ND	3.0V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5321-PPYML TR	576-2878-2-ND	3.0V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5321-SSYD6 TR	576-1935-1-ND	3.3V/3.3V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	1.40	1.12	.84
MIC5321-SSYD6 TR	576-1935-2-ND	3.3V/3.3V 150mA Dual High Performance µCap ULDO Regulator	TSOT-23-6	2151.00/3,000		
MIC5322-MFYMT TR	576-3048-1-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5322-MFYMT TR	576-3048-2-ND	2.8V/1.5V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5322-MGYMT TR	576-3033-1-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5322-MGYMT TR	576-3033-2-ND	2.8V/1.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5322-NNYMT TR	576-3038-1-ND	2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5322-NNYMT TR	576-3038-2-ND	2.85V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5322-PMYMT TR	576-3028-1-ND	3.0V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5322-PMYMT TR	576-3028-2-ND	3.0V/2.8V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5322-PNYMT TR	576-3049-1-ND	3.0V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	1.53	1.22	.92
MIC5322-PNYMT TR	576-3049-2-ND	3.0V/2.85V 150mA Dual High Performance µCap ULDO Regulator	6-MLF	3815.00/5,000		
MIC5322-PPYMT TR	576-3018-1-ND	3.0V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.53	1.22	.92
MIC5322-PPYMT TR	576-3018-2-ND	3.0V/3.0V 150mA Dual High Performance µCap ULDO Regulator	6-TMLF	3815.00/5,000		
MIC5325-1.2YMT TR	576-3085-1-ND	1.2V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	1.98	1.58	1.19
MIC5325-1.2YMT TR	576-3085-2-ND	1.2V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	4940.00/5,000		
MIC5325-1.5YMT TR	576-3086-1-ND	1.5V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	1.98	1.58	1.19
MIC5325-1.5YMT TR	576-3086-2-ND	1.5V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	4940.00/5,000		
MIC5325-1.8YMT TR	576-3087-1-ND	1.8V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	1.98	1.58	1.19
MIC5325-1.8YMT TR	576-3087-2-ND	1.8V, 400mA ULDO Reg., Ultra-Low IQ	6-TMLF	4940.00/5,000		
MIC5330-MFYML TR	576-1936-1-ND	2.8V/1.5V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-MFYML TR	576-1936-2-ND	2.8V/1.5V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-MGYML TR	576-1937-1-ND	2.8V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-MGYML TR	576-1937-2-ND	2.8V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-MKYML TR	576-1938-1-ND	2.8V/2.6V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-MKYML TR	576-1938-2-ND	2.8V/2.6V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5330-MMYML TR	576-1939-1-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-MMYML TR	576-1939-2-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-NNYML TR	576-2879-1-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	1.73	1.38	1.04
MIC5330-NNYML TR	576-2879-2-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	4315.00/5,000		
MIC5330-OGYML TR	576-1940-1-ND	2.9V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-OGYML TR	576-1940-2-ND	2.9V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-PGYML TR	576-1941-1-ND	3.0V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-PGYML TR	576-1941-2-ND	3.0V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-PJYML TR	576-1942-1-ND	3.0V/2.5V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-PJYML TR	576-1942-2-ND	3.0V/2.5V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-PMYML TR	576-2880-1-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-PMYML TR	576-2880-2-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-PNYML TR	576-1943-1-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	1.73	1.38	1.04
MIC5330-PNYML TR	576-1943-2-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	4315.00/5,000		
MIC5330-PPYML TR	576-1944-1-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-PPYML TR	576-1944-2-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-SFYML TR	576-2881-1-ND	3.3V/1.5V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-SFYML TR	576-2881-2-ND	3.3V/1.5V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-SGYML TR	576-2882-1-ND	3.3V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-SGYML TR	576-2882-2-ND	3.3V/1.8V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-SNYML TR	576-2883-1-ND	3.3V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	1.73	1.38	1.04
MIC5330-SNYML TR	576-2883-2-ND	3.3V/2.85V, 300mA Dual µCap ULDO Regulator	8-MLF	4315.00/5,000		
MIC5330-SPYML TR	576-1945-1-ND	3.3V/3.0V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-SPYML TR	576-1945-2-ND	3.3V/3.0V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-SRYML TR	576-1946-1-ND	3.3V/3.2V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-SRYML TR	576-1946-2-ND	3.3V/3.2V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5330-SSYML TR	576-1947-1-ND	3.3V/3.3V, 300mA Dual µCap ULDO Reg.	8-MLF	1.73	1.38	1.04
MIC5330-SSYML TR	576-1947-2-ND	3.3V/3.3V, 300mA Dual µCap ULDO Reg.	8-MLF	4315.00/5,000		
MIC5331-G4YMT TR	576-3149-1-ND	1.8V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.73	1.38	1.04
MIC5331-G4YMT TR	576-3149-2-ND	1.8V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	4315.00/5,000		
MIC5331-J4YMT TR	576-3150-1-ND	2.5V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.73	1.38	1.04
MIC5331-J4YMT TR	576-3150-2-ND	2.5V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	4315.00/5,000		
MIC5331-MMYMT TR	576-3151-1-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.73	1.38	1.04
MIC5331-MMYMT TR	576-3151-2-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	4315.00/5,000		
MIC5331-MNYMT TR	576-3152-1-ND	2.8V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.73	1.38	1.04
MIC5331-MNYMT TR	576-3152-2-ND	2.8V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4315.00/5,000		
MIC5331-NNYMT TR	576-3153-1-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.73	1.38	1.04
MIC5331-NNYMT TR	576-3153-2-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4315.00/5,000		
MIC5331-PMYMT TR	576-3154-1-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.73	1.38	1.04
MIC5331-PMYMT TR	576-3154-2-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	4315.00/5,000		
MIC5331-PNYMT TR	576-3155-1-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.73	1.38	1.04
MIC5331-PNYMT TR	576-3155-2-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4315.00/5,000		
MIC5331-PPYMT TR	576-3156-1-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.73	1.38	1.04
MIC5331-PPYMT TR	576-3156-2-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-TMLF	4315.00/5,000		
MIC5332-G4YMT TR	576-3157-1-ND	1.8V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.78	1.42	1.07
MIC5332-G4YMT TR	576-3157-2-ND	1.8V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	4440.00/5,000		
MIC5332-J4YMT TR	576-3158-1-ND	2.5V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.78	1.42	1.07
MIC5332-J4YMT TR	576-3158-2-ND	2.5V/1.2V, 300mA Dual µCap ULDO Reg.	8-TMLF	4440.00/5,000		
MIC5332-MMYMT TR	576-3159-1-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.78	1.42	1.07
MIC5332-MMYMT TR	576-3159-2-ND	2.8V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	4440.00/5,000		
MIC5332-MNYMT TR	576-3160-1-ND	2.8V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.78	1.42	1.07
MIC5332-MNYMT TR	576-3160-2-ND	2.8V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4440.00/5,000		
MIC5332-NNYMT TR	576-3161-1-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.78	1.42	1.07
MIC5332-NNYMT TR	576-3161-2-ND	2.85V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4440.00/5,000		
MIC5332-PMYMT TR	576-3162-1-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.78	1.42	1.07
MIC5332-PMYMT TR	576-3162-2-ND	3.0V/2.8V, 300mA Dual µCap ULDO Reg.	8-TMLF	4440.00/5,000		
MIC5332-PNYMT TR	576-3163-1-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	1.78	1.42	1.07
MIC5332-PNYMT TR	576-3163-2-ND	3.0V/2.85V, 300mA Dual µCap ULDO Regulator	8-TMLF	4440.00/5,000		
MIC5332-PPYMT TR	576-3164-1-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-TMLF	1.78	1.42	1.07
MIC5332-PPYMT TR	576-3164-2-ND	3.0V/3.0V, 300mA Dual µCap ULDO Reg.	8-TMLF	4440.00/5,000		
MIC5333-G4YMT TR	576-3165-1-ND	1.8V/1.2V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-G4YMT TR	576-3165-2-ND	1.8V/1.2V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-J4YMT TR	576-3166-1-ND	2.5V/1.2V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-J4YMT TR	576-3166-2-ND	2.5V/1.2V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-MMYMT TR	576-3167-1-ND	2.8V/2.8V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-MMYMT TR	576-3167-2-ND	2.8V/2.8V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-MNYMT TR	576-3168-1-ND	2.8V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-MNYMT TR	576-3168-2-ND	2.8V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-NNYMT TR	576-3169-1-ND	2.85V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-NNYMT TR	576-3169-2-ND	2.85V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-PMYMT TR	576-3170-1-ND	3.0V/2.8V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-PMYMT TR	576-3170-2-ND	3.0V/2.8V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-PNYMT TR	576-3171-1-ND	3.0V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-PNYMT TR	576-3171-2-ND	3.0V/2.85V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5333-PPYMT TR	576-3172-1-ND	3.0V/3.0V, 300mA Dual µP ULDO Reg.	10-TMLF	1.83	1.46	1.10
MIC5333-PPYMT TR	576-3172-2-ND	3.0V/3.0V, 300mA Dual µP ULDO Reg.	10-TMLF	4565.00/5,000		
MIC5335-GFYMT TR	576-3587-1-ND	1.8V/1.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-GFYMT TR	576-3587-2-ND	1.8V/1.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-GGYMT TR	576-3534-1-ND	1.8V, 300mA Dual µCap ULDO Regulator ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-GGYMT TR	576-3534-2-ND	1.8V, 300mA Dual µCap ULDO Regulator ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-GWYMT TR	576-3588-1-ND	1.8V/1.6V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-GWYMT TR	576-3588-2-ND	1.8V/1.6V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-JGYMT TR	576-3589-1-ND	2.5V/1.8V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5335-JGYMT TR	576-3589-2-ND	2.5V/1.8V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-JJYMT TR	576-3590-1-ND	2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-JJYMT TR	576-3590-2-ND	2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-KDYMT TR	576-3591-1-ND	2.6V/1.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-KDYMT TR	576-3591-2-ND	2.6V/1.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-LLYMT TR	576-3592-1-ND	2.7V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-LLYMT TR	576-3592-2-ND	2.7V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-MFYMT TR	576-1611-1-ND	2.8V/1.5V, 300mA Dual µCap ULDO Reg.	6-TMLF	1.98	1.58	1.19
MIC5335-MFYMT TR	576-1611-2-ND	2.8V/1.5V, 300mA Dual µCap ULDO Reg.	6-TMLF	4940.00/5,000		
MIC5335-NDYMT TR	576-3593-1-ND	2.85V/1.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-NDYMT TR	576-3593-2-ND	2.85V/1.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-NKYMT TR	576-3594-1-ND	2.85V/2.6V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-NKYMT TR	576-3594-2-ND	2.85V/2.6V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-OOYMT TR	576-3595-1-ND	2.9V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-OOYMT TR	576-3595-2-ND	2.9V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-PGYMT TR	576-1948-1-ND	3.0V/1.8V, 300mA Dual µCap ULDO Reg.	6-TMLF	1.98	1.58	1.19
MIC5335-PGYMT TR	576-1948-2-ND	3.0V/1.8V, 300mA Dual µCap ULDO Reg.	6-TMLF	4940.00/5,000		
MIC5335-PJYMT TR	576-3596-1-ND	3.0V/2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-PJYMT TR	576-3596-2-ND	3.0V/2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-SJYMT TR	576-3597-1-ND	3.3V/2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-SJYMT TR	576-3597-2-ND	3.3V/2.5V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-SMYMT TR	576-2884-1-ND	3.3V/2.8V, 300mA Dual High Performance µCap ULDO Regulator	6-TMLF	1.98	1.58	1.19
MIC5335-SMYMT TR	576-2884-2-ND	3.3V/2.8V, 300mA Dual High Performance µCap ULDO Regulator	6-TMLF	4940.00/5,000		
MIC5335-SNYMT TR	576-3598-1-ND	3.3V/2.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-SNYMT TR	576-3598-2-ND	3.3V/2.85V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-SOYMT TR	576-3599-1-ND	3.3V/2.9V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-SOYMT TR	576-3599-2-ND	3.3V/2.9V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5335-SPYMT TR	576-1949-1-ND	3.3V/3.0V, 300mA Dual µCap ULDO Reg.	6-TMLF	1.98	1.58	1.19
MIC5335-SPYMT TR	576-1949-2-ND	3.3V/3.0V, 300mA Dual µCap ULDO Reg.	6-TMLF	4940.00/5,000		
MIC5335-SRYMT TR	576-3600-1-ND	3.3V/3.2V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	1.98	1.58	1.19
MIC5335-SRYMT TR	576-3600-2-ND	3.3V/3.2V, 300mA Dual ULDO Reg. ***NEW!***	6-TMLF	4940.00/5,000		
MIC5365-1.0YC5 TR	576-3173-1-ND	1.0V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-1.0YC5 TR	576-3173-2-ND	1.0V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-1.0YMT TR	576-3174-1-ND	1.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-1.0YMT TR	576-3174-2-ND	1.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-1.2YC5 TR	576-3175-1-ND	1.2V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-1.2YC5 TR	576-3175-2-ND	1.2V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-1.2YMT TR	576-3176-1-ND	1.2V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-1.2YMT TR	576-3176-2-ND	1.2V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-1.5YC5 TR	576-3179-1-ND	1.5V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-1.5YC5 TR	576-3179-2-ND	1.5V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-1.5YMT TR	576-3180-1-ND	1.5V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-1.5YMT TR	576-3180-2-ND	1.5V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-1.8YC5 TR	576-3181-1-ND	1.8V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-1.8YC5 TR	576-3181-2-ND	1.8V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-1.8YMT TR	576-3182-1-ND	1.8V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-1.8YMT TR	576-3182-2-ND	1.8V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.0YC5 TR	576-3183-1-ND	2.0V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.0YC5 TR	576-3183-2-ND	2.0V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.0YMT TR	576-3184-1-ND	2.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.0YMT TR	576-3184-2-ND	2.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.5YC5 TR	576-3185-1-ND	2.5V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.5YC5 TR	576-3185-2-ND	2.5V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.5YMT TR	576-3186-1-ND	2.5V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.5YMT TR	576-3186-2-ND	2.5V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.6YC5 TR	576-3317-1-ND	2.6V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.6YC5 TR	576-3317-2-ND	2.6V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.6YMT TR	576-3318-1-ND	2.6V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.6YMT TR	576-3318-2-ND	2.6V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.7YC5 TR	576-3319-1-ND	2.7V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.7YC5 TR	576-3319-2-ND	2.7V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.7YMT TR	576-3320-1-ND	2.7V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.7YMT TR	576-3320-2-ND	2.7V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.8YC5 TR	576-3187-1-ND	2.8V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.8YC5 TR	576-3187-2-ND	2.8V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.8YMT TR	576-3188-1-ND	2.8V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.8YMT TR	576-3188-2-ND	2.8V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.85YC5 TR	576-3321-1-ND	2.85V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.85YC5 TR	576-3321-2-ND	2.85V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.85YMT TR	576-3322-1-ND	2.85V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.85YMT TR	576-3322-2-ND	2.85V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-2.9YC5 TR	576-3189-1-ND	2.9V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-2.9YC5 TR	576-3189-2-ND	2.9V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-2.9YMT TR	576-3190-1-ND	2.9V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-2.9YMT TR	576-3190-2-ND	2.9V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-3.0YC5 TR	576-3191-1-ND	3.0V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-3.0YC5 TR	576-3191-2-ND	3.0V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-3.0YMT TR	576-3192-1-ND	3.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-3.0YMT TR	576-3192-2-ND	3.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5365-3.3YC5 TR	576-3193-1-ND	3.3V, 150mA Single Ch. LDO Regulator	SC70-5	.68	.51	.39
MIC5365-3.3YC5 TR	576-3193-2-ND	3.3V, 150mA Single Ch. LDO Regulator	SC70-5	663.00/3,000		
MIC5365-3.3YMT TR	576-3194-1-ND	3.3V, 150mA Single Ch. LDO Regulator	4-TMLF	.92	.69	.52
MIC5365-3.3YMT TR	576-3194-2-ND	3.3V, 150mA Single Ch. LDO Regulator	4-TMLF	1465.00/5,000		
MIC5366-1.0YC5 TR	576-3195-1-ND	1.0V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-1.0YC5 TR	576-3195-2-ND	1.0V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-1.0YMT TR	576-3196-1-ND	1.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-1.0YMT TR	576-3196-2-ND	1.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-1.2YC5 TR	576-3197-1-ND	1.2V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-1.2YC5 TR	576-3197-2-ND	1.2V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		

*** RoHS Compliant** ★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★ *(Continued)*

MICREL® Innovation Through Technology™ Digi-Reel® *(Cont.)*

LDO REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5366-1.2YMT TR	576-3198-1-ND	1.2V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-1.2YMT TR	576-3198-2-ND	1.2V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-1.5YC5 TR	576-3201-1-ND	1.5V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-1.5YC5 TR	576-3201-2-ND	1.5V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-1.5YMT TR	576-3202-1-ND	1.5V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-1.5YMT TR	576-3202-2-ND	1.5V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-1.8YC5 TR	576-3203-1-ND	1.8V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-1.8YC5 TR	576-3203-2-ND	1.8V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-1.8YMT TR	576-3204-1-ND	1.8V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-1.8YMT TR	576-3204-2-ND	1.8V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.0YC5 TR	576-3205-1-ND	2.0V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.0YC5 TR	576-3205-2-ND	2.0V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.0YMT TR	576-3206-1-ND	2.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.0YMT TR	576-3206-2-ND	2.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.5YC5 TR	576-3207-1-ND	2.5V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.5YC5 TR	576-3207-2-ND	2.5V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.5YMT TR	576-3208-1-ND	2.5V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.5YMT TR	576-3208-2-ND	2.5V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.6YC5 TR	576-3323-1-ND	2.6V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.6YC5 TR	576-3323-2-ND	2.6V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.6YMT TR	576-3324-1-ND	2.6V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.6YMT TR	576-3324-2-ND	2.6V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.7YC5 TR	576-3325-1-ND	2.7V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.7YC5 TR	576-3325-2-ND	2.7V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.7YMT TR	576-3326-1-ND	2.7V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.7YMT TR	576-3326-2-ND	2.7V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.8YC5 TR	576-3209-1-ND	2.8V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.8YC5 TR	576-3209-2-ND	2.8V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.8YMT TR	576-3210-1-ND	2.8V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.8YMT TR	576-3210-2-ND	2.8V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.85YC5 TR	576-3327-1-ND	2.85V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.85YC5 TR	576-3327-2-ND	2.85V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.85YMT TR	576-3328-1-ND	2.85V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.85YMT TR	576-3328-2-ND	2.85V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-2.9YC5 TR	576-3211-1-ND	2.9V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-2.9YC5 TR	576-3211-2-ND	2.9V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-2.9YMT TR	576-3212-1-ND	2.9V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-2.9YMT TR	576-3212-2-ND	2.9V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-3.0YC5 TR	576-3213-1-ND	3.0V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-3.0YC5 TR	576-3213-2-ND	3.0V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-3.0YMT TR	576-3214-1-ND	3.0V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-3.0YMT TR	576-3214-2-ND	3.0V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5366-3.3YC5 TR	576-3215-1-ND	3.3V, 150mA Single Ch. LDO Regulator	SC70-5	.64	.48	.36
MIC5366-3.3YC5 TR	576-3215-2-ND	3.3V, 150mA Single Ch. LDO Regulator	SC70-5	624.00/3,000		
MIC5366-3.3YMT TR	576-3216-1-ND	3.3V, 150mA Single Ch. LDO Regulator	4-TMLF	.84	.63	.48
MIC5366-3.3YMT TR	576-3216-2-ND	3.3V, 150mA Single Ch. LDO Regulator	4-TMLF	1340.00/5,000		
MIC5370-G4YMT TR	576-3329-1-ND	1.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-G4YMT TR	576-3329-2-ND	1.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-GFYMT TR	576-3524-1-ND	1.8V/1.5V, 150mA Dual LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5370-GFYMT TR	576-3524-2-ND	1.8V/1.5V, 150mA Dual LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC5370-M4YMT TR	576-3330-1-ND	2.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-M4YMT TR	576-3330-2-ND	2.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-MGYMT TR	576-3218-1-ND	2.8V/1.8V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-MGYMT TR	576-3218-2-ND	2.8V/1.8V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-PPYMT TR	576-3331-1-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-PPYMT TR	576-3331-2-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-SSYMT TR	576-3332-1-ND	3.3V/3.3V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-SSYMT TR	576-3332-2-ND	3.3V/3.3V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5371-G4YMT TR	576-3333-1-ND	1.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-G4YMT TR	576-3333-2-ND	1.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-M4YMT TR	576-3334-1-ND	2.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-M4YMT TR	576-3334-2-ND	2.8V/1.2V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-MGYMT TR	576-3220-1-ND	2.8V/1.8V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-MGYMT TR	576-3220-2-ND	2.8V/1.8V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-PPYMT TR	576-3335-1-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-PPYMT TR	576-3335-2-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-SSYMT TR	576-3336-1-ND	3.3V/3.3V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-SSYMT TR	576-3336-2-ND	3.3V/3.3V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5375-2.8YC5 TR	576-3381-1-ND	2.8V, 150mA LDO Regulator	SC70-5	.68	.51	.39
MIC5375-2.8YC5 TR	576-3381-2-ND	2.8V, 150mA LDO Regulator	SC70-5	663.00/3,000		
MIC5375-2.8YMT TR	576-3382-1-ND	2.8V, 150mA LDO Regulator	4-TMLF	.75	.63	.50
MIC5375-2.8YMT TR	576-3382-2-ND	2.8V, 150mA LDO Regulator	4-TMLF	1595.00/5,000		
MIC5376-2.8YC5 TR	576-3383-1-ND	2.8V, 150mA LDO Regulator	SC70-5	.76	.57	.43
MIC5376-2.8YC5 TR	576-3383-2-ND	2.8V, 150mA LDO Regulator	SC70-5	741.00/3,000		
MIC5376-2.8YMT TR	576-3384-1-ND	2.8V, 150mA LDO Regulator	4-TMLF	.81	.68	.54
MIC5376-2.8YMT TR	576-3384-2-ND	2.8V, 150mA LDO Regulator	4-TMLF	1720.00/5,000		
MIC5377YC5 TR	576-3358-1-ND	Adj., 150mA LDO Regulator	SC70-5	.76	.57	.43
MIC5377YC5 TR	576-3358-2-ND	Adj., 150mA LDO Regulator	SC70-5	741.00/3,000		
MIC5377YMT TR	576-3359-1-ND	Adj., 150mA LDO Regulator	8-TMLF	.84	.70	.56
MIC5377YMT TR	576-3359-2-ND	Adj., 150mA LDO Regulator	8-TMLF	1785.00/5,000		
MIC5378YC5 TR	576-3360-1-ND	Adj., 150mA LDO Regulator	SC70-5	.84	.63	.48
MIC5378YC5 TR	576-3360-2-ND	Adj., 150mA LDO Regulator	SC70-5	819.00/3,000		
MIC5378YMT TR	576-3361-1-ND	Adj., 150mA LDO Regulator	8-TMLF	.87	.73	.58
MIC5378YMT TR	576-3361-2-ND	Adj., 150mA LDO Regulator	8-TMLF	1850.00/5,000		
MIC5380G4YFT TR	576-3446-1-ND	1.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380G4YFT TR	576-3446-2-ND	1.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-KHYFT TR	576-3447-1-ND	2.6V/2V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-KHYFT TR	576-3447-2-ND	2.6V/2V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-LLYFT TR	576-3448-1-ND	2.7V/2.7V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-LLYFT TR	576-3448-2-ND	2.7V/2.7V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-M4YFT TR	576-3449-1-ND	2.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-M4YFT TR	576-3449-2-ND	2.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-MGYFT TR	576-3450-1-ND	2.8V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-MGYFT TR	576-3450-2-ND	2.8V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-NGYFT TR	576-3451-1-ND	2.85V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-NGYFT TR	576-3451-2-ND	2.85V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-PPYFT TR	576-3452-1-ND	3V/3V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-PPYFT TR	576-3452-2-ND	3V/3V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5380-SSYFT TR	576-3453-1-ND	3.3V/3.3V, 150mA LDO Reg. ***NEW!***	6-TMLF	.81	.68	.54
MIC5380-SSYFT TR	576-3453-2-ND	3.3V/3.3V, 150mA LDO Reg. ***NEW!***	6-TMLF	1720.00/5,000		
MIC5381-G4YFT TR	576-3454-1-ND	1.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5381-G4YFT TR	576-3454-2-ND	1.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC5381-M4YFT TR	576-3455-1-ND	2.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5381-M4YFT TR	576-3455-2-ND	2.8V/1.2V, 150mA LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC5381-MGYFT TR	576-3456-1-ND	2.8V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5381-MGYFT TR	576-3456-2-ND	2.8V/1.8V, 150mA LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC5381-PPYFT TR	576-3457-1-ND	3V/3V, 150mA LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5381-PPYFT TR	576-3457-2-ND	3V/3V, 150mA LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC5381-SSYFT TR	576-3458-1-ND	3.3V/3.3V, 150mA LDO Reg. ***NEW!***	6-TMLF	.84	.70	.56
MIC5381-SSYFT TR	576-3458-2-ND	3.3V/3.3V, 150mA LDO Reg. ***NEW!***	6-TMLF	1785.00/5,000		
MIC29150-3.3WT	576-1104-ND	3.3V, 1.5A High-Current LDO Regulator	TO-220-3	3.13	2.51	1.95
MIC29150-3.3WU	576-1105-ND	3.3V, 1.5A High-Current LDO Regulator	TO-263	3.13	2.51	1.95
MIC29150-5.0WT	576-1106-ND	5V, 1.5A High-Current LDO Regulator	TO-220-3	3.13	2.51	1.95
MIC29150-5.0WU	576-1107-ND	5V, 1.5A High-Current LDO Regulator	TO-263	3.13	2.51	1.95
MIC29150-12WT	576-2206-ND	12V, 1.5A High-Current LDO Regulator	TO-220-3	3.13	2.51	1.95
MIC29150-12WU	576-2207-ND	12V, 1.5A High-Current LDO Regulator	TO-263-3	3.13	2.51	1.95
MIC29151-3.3WT	576-2210-ND	3.3V, 1.5A High-Current LDO Regulator	TO-220-5	3.29	2.63	2.05
MIC29151-3.3WU	576-1108-ND	3.3V, 1.5A High-Current LDO Regulator	TO-263-5	3.29	2.63	2.05
MIC29151-5.0WT	576-1109-ND	5V, 1.5A High-Current LDO Regulator	TO-220-5	3.29	2.63	2.05
MIC29151-5.0WU	576-1110-ND	5V, 1.5A High-Current LDO Regulator	TO-263-5	3.29	2.63	2.05
MIC29151-12WT	576-2208-ND	12V, 1.5A High-Current LDO Regulator	TO-220-5	3.29	2.63	2.05
MIC29151-12WU	576-2209-ND	12V, 1.5A High-Current LDO Regulator	TO-263-5	3.29	2.63	2.05
MIC29152WT	576-1111-ND	Adj., High-Current LDO Regulator	TO-220-5	3.29	2.63	2.05
MIC29152WU	576-3367-5-ND	Adj., High-Current LDO Regulator	TO-263-5	3.29	2.63	2.05
MIC29152WU TR	576-1112-1-ND	Adj., High-Current LDO Regulator	TO-263-5	3.29	2.63	2.05
MIC29152WU TR	576-1112-2-ND	Adj., High-Current LDO Regulator	TO-263-5	1423.50/750		
MIC29201-3.3WT	576-2212-ND	3.3V, 400mA LDO Volt. Regulator	TO-220-5	4.07	3.26	2.54
MIC29201-3.3WU	576-2213-ND	3.3V, 400mA LDO Volt. Regulator	TO-263-5	4.07	3.26	2.54
MIC29201-3.3YM	576-2214-ND	3.3V, 400mA LDO Volt. Regulator	8-SOIC	2.97	2.38	1.85
MIC29201-4.8WU	576-2215-ND	4.85V, 400mA LDO Volt. Regulator	TO-263-5	4.07	3.26	2.54
MIC29201-5.0WT	576-2216-ND	5V, 400mA LDO Voltage Regulator	TO-220-5	4.07	3.26	2.54
MIC29201-5.0WU	576-1113-ND	5V, 400mA LDO Voltage Regulator	TO-263-5	4.07	3.26	2.54
MIC29201-12WU	576-2211-ND	12V, 400mA LDO Voltage Regulator	TO-263-5	4.07	3.26	2.54
MIC29202WT	576-2217-ND	Adj., 400mA LDO Voltage Regulator	TO-220-5	4.39	3.51	2.73
MIC29202WU	576-1114-ND	Adj., 400mA LDO Voltage Regulator	TO-263-5	4.39	3.51	2.73
MIC29204YM	576-1115-ND	5V and Adj., 400mA LDO Volt. Reg.	8-SOIC	3.29	2.63	2.05
MIC29300-3.3WT	576-1119-ND	3.3V, High-Current LDO Regulator	TO-220-3	3.47	2.78	2.16
MIC29300-3.3WU	576-1120-ND	3.3V, High-Current LDO Regulator	TO-263	3.47	2.78	2.16
MIC29300-5.0WT	576-1121-ND	5V, High-Current LDO Regulator	TO-220-3	3.47	2.78	2.16
MIC29300-5.0WU	576-1122-ND	5V, High-Current LDO Regulator	TO-263	3.47	2.78	2.16
MIC29300-12WT	576-1118-ND	12V, High-Current LDO Regulator	TO-220-3	3.47	2.78	2.16
MIC29300-12WU	576-2222-ND	12V, High-Current LDO Regulator	TO-263-3	3.47	2.78	2.16
MIC29301-3.3WT	576-2224-ND	3.3V, High-Current LDO Regulator	TO-220-5	3.69	2.96	2.30
MIC29301-3.3WU	576-1123-ND	3.3V, High-Current LDO Regulator	TO-263-5	3.69	2.96	2.30
MIC29301-5.0WT	576-2225-ND	5V, High-Current LDO Regulator	TO-220-5	3.69	2.96	2.30
MIC29301-5.0WU	576-2226-ND	5V, High-Current LDO Regulator	TO-263-5	3.69	2.96	2.30
MIC29301-12WT	576-2223-ND	12V, High-Current LDO Regulator	TO-220-5	3.69	2.96	2.30
MIC29301-12WU	576-3481-5-ND	12V, High-Current LDO Regulator ***NEW!***	TO-263-5	3.69	2.96	2.30
MIC29302WT	576-1124-ND	Adj., High-Current LDO Regulator	TO-220-5	3.69	2.96	2.30
MIC29302WU	576-3369-5-ND	Adj., High-Current LDO Regulator	TO-263-5	3.69	2.96	2.30
MIC29302WU TR	576-1125-1-ND	Adj., High-Current LDO Regulator	TO-263-5	3.69	2.96	2.30
MIC29302WU TR	576-1125-2-ND	Adj., High-Current LDO Regulator	TO-263-5	1599.00/750		
MIC29303WT	576-2227-ND	Adj., High-Current LDO Regulator	TO-220-5	3.69	2.96	2.30
MIC29303WU	576-1126-ND	Adj., High-Current LDO Regulator	TO-263-5	3.69	2.96	2.30
MIC29310-3.3WT	576-2228-ND	3.3V, 3.0A Fast-Response LDO Reg.	TO-220-3	2.61	2.09	1.63
MIC29310-3.3WU	576-2229-ND	3.3V, 3.0A Fast-Response LDO Reg.	TO-263-3	2.61	2.09	1.63
MIC29310-5.0WU	576-2230-ND	5.0V, 3.0A Fast-Response LDO Reg.	TO-263-3	2.61	2.09	1.63
MIC29312WT	576-2231-ND	Adj., 3.0A Fast-Response LDO Regulator	TO-220-5	2.61	2.09	1.63
MIC29312WU	576-1751-5-ND	Adj., 3.0A Fast-Response LDO Regulator	TO-263-5	2.61	2.09	1.63
MIC29371-3.3WT	576-2232-ND	3.3V, 750mA LDO Volt. Regulator	TO-220-5	4.43	3.55	2.76
MIC29371-3.3WU	576-1752-5-ND	3.3V, 750mA LDO Voltage Regulator	TO-263-5	4.43	3.55	2.76
MIC29371-5.0WT	576-1127-ND	5V, 750mA LDO Voltage Regulator	TO-220-5	4.43	3.55	2.76
MIC29371-5.0WU	576-1128-ND	5V, 750mA LDO Voltage Regulator	TO-263-5	4.43	3.55	2.76
MIC29372WT	576-1129-ND	Adj., 750mA LDO Voltage Regulator	TO-220-5	4.43	3.55	2.76
MIC29372WU TR	576-1130-1-ND	Adj., 750mA LDO Voltage Regulator	TO-263-5	4.43	3.55	2.76
MIC29372WU TR	576-1130-2-ND	Adj., 750mA LDO Voltage Regulator	TO-263-5	1920.75/750		
MIC29500-3.3WT	576-1142-ND	3.3V, High-Current LDO Regulator	TO-220-3	5.72	4.58	3.87
MIC29500-5.0WT	576-1143-ND	5V, High-Current LDO Regulator	TO-220-3	5.72	4.58	3.87
MIC29501-3.3WT	576-2238-ND	3.3V, High-Current LDO Regulator	TO-220-5	5.88	4.71	3.97
MIC29501-3.3WU	576-1144-ND	3.3V, High-Current LDO Regulator	TO-263-5	5.88	4.71	3.97
MIC29501-5.0WT	576-2239-ND	5V, High-Current LDO Regulator	TO-220-5	5.88	4.71	3.97
MIC29501-5.0WU	576-2240-ND	5V, High-Current LDO Regulator	TO-263-5	5.88	4.71	3.97
MIC29502WT	576-1145-ND	Adj., High-Current LDO Regulator	TO-220-5	5.88	4.71	3.97
MIC29502WU	576-2241-ND	Adj., High-Current LDO Regulator	TO-263-5	5.88	4.71	3.97
MIC29502WU TR	576-1146-1-ND	Adj., High-Current LDO Regulator	TO-263-5	5.88	4.71	3.97
MIC29502WU TR	576-1146-2-ND	Adj., High-Current LDO Regulator	TO-263-5	2800.50/750		
MIC29503WT	576-2242-ND	Adj., High-Current LDO Regulator	TO-220-5	5.88	4.71	3.97
MIC29503WU	576-1147-ND	Adj., High-Current LDO Regulator	TO-263-5	5.88	4.71	3.97
MIC29510-3.3WT	576-2243-ND	3.3V, 5A Fast-Response LDO Regulator	TO-220-3	5.11	4.09	3.18
MIC29512WT	576-2246-ND	Adj, 5A Fast-Response LDO Regulator	TO-220-5	5.40	4.32	3.65
MIC29710-3.3WT	576-2251-ND	3.3V, 7.5A Fast-Response LDO Reg.	TO-220-3	12.41	11.18	9.91
MIC29712WT	576-2252-ND	Adj, 7.5A Fast Response LDO Regulator	TO-220-5	12.96	11.67	10.35
MIC29750-3.3WWT	576-2253-ND	3.3V, 7.5A High Current LDO Regulator	TO-247-3	16.35	15.26	14.17
MIC29750-5.0WWT	576-2254-ND	5.0V, 7.5A High Current LDO Regulator	TO-247-3	16.35	15.26	14.17
MIC29752WWT	576-1157-ND	Adj., High-Current LDO Regulator	TO-247-5	17.48	16.31	15.15
MIC37100-1.5WS	576-1161-ND	1.5V, 1A Low Voltage µCap LDO Reg.	SOT-223	1.33	1.06	.80
MIC37100-1.8WS	576-1756-5-ND	1.8V, 1A Low Voltage µCap LDO Reg.	SOT-223	1.33	1.06	.80
MIC37100-2.5WS	576-1162-ND	2.5V, 1A Low Voltage µCap LDO Reg.	SOT-223	1.33	1.06	.80
MIC37100-3.3WS	576-1163-ND	3.3V, 1A Low Voltage µCap LDO Reg.	SOT-223	1.33	1.06	.80
MIC37101-1.8YM	576-1757-5-ND	1.8V, 1A Low Voltage µCap LDO Reg.	8-SOIC	1.45	1.16	.87
MIC37101-2.1YM	576-1758-5-ND	2.1V, 1A Low Voltage µCap LDO Reg.	8-SOIC	1.45	1.16	.87
MIC37101-2.5YM	576-1759-5-ND	2.5V, 1A Low Voltage µCap LDO Reg.	8-SOIC	1.45	1.16	.87
MIC37101-3.3YM	576-1760-5-ND	3.3V, 1A Low Voltage µCap LDO Reg.	8-SOIC	1.45	1.16	.87
MIC37102WR	576-2256-ND	Adj., 1.0A Low Voltage µCap LDO Reg.	5-SPAK	1.93	1.54	1.16
MIC37102YM	576-1761-5-ND	Adj, 1A Low Voltage µCap LDO Reg.	8-SOIC	1.45	1.16	.87
MIC37139-1.8YS	576-2257-ND	1.8V, 1.5A Low Voltage µCap LDO Reg.	SOT-223	2.72	2.18	1.70
MIC37139-2.5YS	576-3601-5-ND	2.5V, 1.5A Low Voltage µCap LDO Reg. ***NEW!***	SOT-223	2.72	2.18	1.70
MIC37150-1.5WR	576-2258-ND	1.5V, 1.5A Low Voltage µCap LDO Reg.	3-SPAK	2.72	2.18	1.70
MIC37150-2.5WR	576-2259-ND	2.5V, 1.5A Low Voltage µCap LDO Reg.	3-SPAK	2.72	2.18	1.70
MIC37150-3.3WR	576-2260-ND	3.3V, 1.5A Low Voltage µCap LDO Reg.	3-SPAK	2.72	2.18	1.70
MIC37150-1.8WR	576-1762-5-ND	1.8V, 1.5A Low Voltage µCap LDO Reg.	3-SPAK	2.72	2.18	1.70
MIC37151-1.5WR	576-1164-ND	1.5V, 1.5A Low Voltage µCap LDO Reg.	5-SPAK	2.90	2.33	1.81
MIC37151-1.8WR	576-2261-ND	1.8V, 1.5A Low Voltage µCap LDO Reg.	5-SPAK	2.90	2.33	1.81
MIC37151-2.5WR	576-2262-ND	2.5V, 1.5A Low Voltage µCap LDO Reg.	5-SPAK	2.90	2.33	1.81
MIC37151-3.3WR	576-2263-ND	3.3V, 1.5A Low Voltage µCap LDO Reg.	5-SPAK	2.90	2.33	1.81
MIC37152WR	576-1165-ND	Adj., 1.5A Low Voltage µCap LDO Reg.	5-SPAK	2.90	2.33	1.81
MIC37152YM	576-2264-ND	Adj., 1.5A Low Voltage µCap LDO Reg.	8-SOIC	2.48	1.98	1.54
MIC37153YME	576-3285-5-ND	Adj., 1.5A Low Voltage µCap LDO Reg.	8-SOIC	2.66	2.13	1.66
MIC37252WR	576-1763-5-ND	Adj., 2.5A Low Voltage µCap LDO Reg.	5-SPAK	2.43	1.94	1.46

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LDO REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC37252WU	576-1764-5-ND	Adj., 2.5A Low Voltage µCap LDO Reg.	TO-263-5	2.43	1.94	1.46
MIC37300-1.5WR	576-2265-ND	1.5V, 3A Low Voltage µCap LDO Reg.	3-SPAK	3.29	2.63	2.05
MIC37300-1.8WR	576-2266-ND	1.8V, 3A Low Voltage µCap LDO Reg.	3-SPAK	3.29	2.63	2.05
MIC37300-2.5WR	576-2267-ND	2.5V, 3A Low Voltage µCap LDO Reg.	3-SPAK	3.29	2.63	2.05
MIC37300-3.3WR	576-2268-ND	3.3V, 3A Low Voltage µCap LDO Reg.	3-SPAK	3.29	2.63	2.05
MIC37301-1.5WR	576-1166-ND	1.5V, 3.0A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37301-1.8WR	576-2269-ND	1.8V, 3A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37301-2.5WR	576-1765-5-ND	2.5V, 3A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37301-3.3WR	576-2270-ND	3.3V, 3A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37302WR	576-2271-ND	Adj., 3.0A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37302WR TR	576-1167-1-ND	Adj., 3.0A Low Voltage µCap LDO Reg.	5-SPAK	3.49	2.79	2.17
MIC37302WR TR	576-1167-2-ND	Adj., 3.0A Low Voltage µCap LDO Reg.	5-SPAK	1511.25/750		
MIC37302WU	576-1766-5-ND	Adj., 3.0A Low Voltage µCap LDO Reg.	TO-263-5	3.49	2.79	2.17
MIC37501-1.5WR	576-2272-ND	1.5V, 5A Low Voltage µCap LDO Reg.	7-SPAK	6.18	4.95	4.18
MIC37501-1.8WR	576-2273-ND	1.8V, 5A Low Voltage µCap LDO Reg.	7-SPAK	6.18	4.95	4.18
MIC37501-2.5WR	576-2274-ND	2.5V, 5A Low Voltage µCap LDO Reg.	7-SPAK	6.18	4.95	4.18
MIC37501-3.3WR	576-2275-ND	3.3V, 5A Low Voltage µCap LDO Reg.	7-SPAK	6.18	4.95	4.18
MIC37502WR	576-2276-ND	Adj., 5A Low Voltage µCap LDO Reg.	7-SPAK	6.18	4.95	4.18
MIC37502WU	576-2277-ND	Adj., 5A Low Voltage µCap LDO Reg.	TO-263-5	6.18	4.95	4.18
MIC38150HYHL TR	576-3533-1-ND	Adj., 1.5A High Efficency LDO Regulator ***NEW!***	28-MLF	5.18	4.14	3.22
MIC38150HYHL TR	576-3533-2-ND	Adj., 1.5A High Efficency LDO Regulator ***NEW!***	28-MLF	2933.00/1,000		
MIC38300HYHL TR	576-2960-1-ND	Adj., 3A Low Noise High Efficiency Reg.	28-MLF	5.56	4.45	3.76
MIC38300HYHL TR	576-2960-2-ND	Adj., 3A Low Noise High Efficiency Reg.	28-MLF	3475.00/1,000		
MIC39100-1.8WS	576-1170-ND	1.8V, 1A Low Voltage LDO Regulator	SOT-223	1.45	1.16	.87
MIC39100-2.5WS	576-3374-5-ND	2.5V, 1A Low Voltage LDO Regulator	SOT-223	1.45	1.16	.87
MIC39100-2.5WS TR	576-1171-1-ND	2.5V, 1A Low Voltage LDO Regulator	SOT-223	1.45	1.16	.87
MIC39100-2.5WS TR	576-1171-2-ND	2.5V, 1A Low Voltage LDO Regulator	SOT-223	1855.00/2,500		
MIC39100-3.3WS	576-1172-ND	3.3V, 1A Low Voltage LDO Regulator	SOT-223	1.45	1.16	.87
MIC39100-5.0WS	576-1173-ND	5V, 1A Low Voltage LDO Regulator	SOT-223	1.45	1.16	.87
MIC39101-1.8YM	576-1780-5-ND	1.8V, 1A Low Voltage LDO Regulator	8-SOIC	1.68	1.34	1.01
MIC39101-2.5YM	576-1781-5-ND	2.5V, 1A Low Voltage LDO Regulator	8-SOIC	1.68	1.34	1.01
MIC39101-3.3YM	576-1782-5-ND	3.3V, 1A Low Voltage LDO Regulator	8-SOIC	1.68	1.34	1.01
MIC39101-5.0YM	576-1174-ND	5V, 1A Low Voltage LDO Regulator	8-SOIC	1.68	1.34	1.01
MIC39102YM	576-1175-ND	Adj., 1A Low Voltage LDO Regulator	8-SOIC	1.68	1.34	1.01
MIC39150-1.8WT	576-2302-ND	1.8V, 1.5A Low Voltage LDO Regulator	TO-220-3	2.66	2.13	1.66
MIC39150-1.8WU	576-1176-ND	1.8V, 1.5A Low Voltage LDO Regulator	TO-263	2.66	2.13	1.66
MIC39150-2.5WT	576-2303-ND	2.5V, 1.5A Low Voltage LDO Regulator	TO-220-3	2.66	2.13	1.66
MIC39150-2.5WU	576-1177-ND	2.5V, 1.5A Low Voltage LDO Regulator	TO-263	2.66	2.13	1.66
MIC39151-1.8WU	576-2304-ND	1.8V, 1.5A Low Voltage LDO Regulator	TO-263-5	2.81	2.25	1.75
MIC39151-2.5WT	576-2305-ND	2.5V, 1.5A Low Voltage LDO Regulator	TO-220-5	2.81	2.25	1.75
MIC39151-2.5WU	576-2306-ND	2.5V, 1.5A Low Voltage LDO Regulator	TO-263-5	2.81	2.25	1.75
MIC39300-1.8WT	576-2307-ND	1.8V, 3A Low Voltage LDO Regulator	TO-220-3	3.29	2.63	2.05
MIC39300-1.8WU	576-1178-ND	1.8V, 3A Low Voltage LDO Regulator	TO-263	3.29	2.63	2.05
MIC39300-2.5WT	576-2308-ND	2.5V, 3A Low Voltage LDO Regulator	TO-220-3	3.29	2.63	2.05
MIC39300-2.5WU	576-3375-5-ND	2.5V, 3A Low Voltage LDO Regulator	TO-263	3.29	2.63	2.05
MIC39300-2.5WU TR	576-1179-1-ND	2.5V, 3A Low Voltage LDO Regulator	TO-263	3.29	2.63	2.05
MIC39300-2.5WU TR	576-1179-2-ND	2.5V, 3A Low Voltage LDO Regulator	TO-263	1423.50/750		
MIC39301-1.8WU	576-1180-ND	1.8V, 3A Low Voltage LDO Regulator	TO-263-5	3.60	2.88	2.24
MIC39301-2.5WU	576-1181-ND	2.5V, 3A Low Voltage LDO Regulator	TO-263-5	3.60	2.88	2.24
MIC39500-1.8WU	576-1783-5-ND	1.8V, 5A Low Voltage LDO Regulator	TO-263	5.28	4.23	3.57
MIC39500-2.5WT	576-2309-ND	2.5V, 5A Low Voltage LDO Regulator	TO-220-3	5.28	4.23	3.57
MIC39500-2.5WU	576-1182-ND	2.5V, 5A Low Voltage LDO Regulator	TO-263	5.28	4.23	3.57
MIC39501-1.8WT	576-2310-ND	1.8V, 5A Low Voltage LDO Regulator	TO-220-5	5.56	4.45	3.76
MIC39501-1.8WU	576-2311-ND	1.8V, 5A Low Voltage LDO Regulator	TO-263-5	5.56	4.45	3.76
MIC39501-2.5WU	576-2312-ND	2.5V, 5A Low Voltage LDO Regulator	TO-263-5	5.56	4.45	3.76
MIC47100-0.8YML TR	576-3112-1-ND	0.8V, 1A High Speed Low VIN LDO Reg.	8-MLF	3.15	2.52	1.96
MIC47100-0.8YML TR	576-3112-2-ND	0.8V, 1A High Speed Low VIN LDO Reg.	8-MLF	8750.00/5,000		
MIC47100-08YMME	576-3113-5-ND	0.8V, 1A High Speed Low VIN LDO Reg.	8-MSOP	3.47	2.78	2.16
MIC47100-1.0YML TR	576-3114-1-ND	1.0V, 1A High Speed Low VIN LDO Reg.	8-MLF	3.15	2.52	1.96
MIC47100-1.0YML TR	576-3114-2-ND	1.0V, 1A High Speed Low VIN LDO Reg.	8-MLF	8750.00/5,000		
MIC47100-1.2YML TR	576-3115-1-ND	1.2V, 1A High Speed Low VIN LDO Reg.	8-MLF	3.15	2.52	1.96
MIC47100-1.2YML TR	576-3115-2-ND	1.2V, 1A High Speed Low VIN LDO Reg.	8-MLF	8750.00/5,000		
MIC47100-10YMME	576-3116-5-ND	1.0V, 1A High Speed Low VIN LDO Reg.	8-MSOP	3.47	2.78	2.16
MIC47100-12YMME	576-3117-5-ND	1.2V, 1A High Speed Low VIN LDO Reg.	8-MSOP	3.47	2.78	2.16
MIC47100YML TR	576-3118-1-ND	Adj., 1A High Speed Low VIN LDO Reg.	8-MLF	3.15	2.52	1.96
MIC47100YML TR	576-3118-2-ND	Adj., 1A High Speed Low VIN LDO Reg.	8-MLF	8750.00/5,000		
MIC47100YMME	576-3119-5-ND	Adj., 1A High Speed Low VIN LDO Reg.	8-MSOP	3.47	2.78	2.16
MIC49150-0.9WR	576-2345-ND	0.9V, 1.5A Low Voltage LDO Regulator	5-SPAK	5.15	4.13	3.21
MIC49150-0.9YMM	576-2346-ND	0.9V, 1.5A Low Voltage LDO Regulator	8-MSOP	4.28	3.42	2.66
MIC49150-1.2WR	576-1804-5-ND	1.2V, 1.5A Low Voltage LDO Regulator	5-SPAK	5.15	4.13	3.21
MIC49150-1.2YMM	576-1805-5-ND	1.2V, 1.5A Low Voltage LDO Regulator	8-MSOP	4.28	3.42	2.66
MIC49150-1.5WR	576-2347-ND	1.5V, 1.5A Low Voltage LDO Regulator	5-SPAK	5.15	4.13	3.21
MIC49150-1.5YMM	576-1806-5-ND	1.5V, 1.5A Low Voltage LDO Regulator	8-MSOP	4.28	3.42	2.66
MIC49150-1.8WR	576-2348-ND	1.8V, 1.5A Low Voltage LDO Regulator	5-SPAK	5.15	4.13	3.21
MIC49150-1.8YMM	576-2349-ND	1.8V, 1.5A Low Voltage LDO Regulator	8-MSOP	4.28	3.42	2.66
MIC49150WR	576-1227-ND	Adj., 1.5A Low Voltage LDO Regulator	5-SPAK	5.15	4.13	3.21
MIC49150YMM	576-1228-ND	Adj., 1.5A Low Voltage LDO Regulator	8-MSOP	4.28	3.42	2.66
MIC49200-1.0WR	576-1807-5-ND	1.0V, 2A Low Voltage LDO Regulator	5-SPAK	4.70	3.77	2.93
MIC49200-1.2WR	576-1465-1-ND	1.2V, 2A Low Voltage LDO Regulator	5-SPAK	4.70	3.77	2.93
MIC49200-1.8WR	576-1808-5-ND	1.8V, 2A Low Voltage LDO Regulator	5-SPAK	4.70	3.77	2.93
MIC49200WR	576-1809-5-ND	Adj., 2A Low Voltage LDO Regulator	5-SPAK	4.70	3.77	2.93
MIC49300-0.9WR	576-1810-5-ND	0.9V, 3.0A Low Voltage LDO Regulator	5-SPAK	6.18	4.95	4.18
MIC49300-1.2WR	576-1811-5-ND	1.2V, 3.0A Low Voltage LDO Regulator	5-SPAK	6.18	4.95	4.18
MIC49300-1.5WR	576-1812-5-ND	1.5V, 3.0A Low Voltage LDO Regulator	5-SPAK	6.18	4.95	4.18
MIC49300-1.8WR	576-1813-5-ND	1.8V, 3.0A Low Voltge LDO Regulator	5-SPAK	6.18	4.95	4.18
MIC49300WR	576-1229-ND	Adj., 3.0A Low Voltage LDO Regulator	5-SPAK	6.18	4.95	4.18
MIC49500-0.9WR	576-1814-5-ND	0.9V, 5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	9.58	8.63	7.65
MIC49500-0.9WU	576-1815-5-ND	0.9V, 5A Dual Supply Low Voltage High Bandwidth LDO	TO-263-7	9.58	8.63	7.65
MIC49500-1.2WR	576-1816-5-ND	1.2V, 5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	9.58	8.63	7.65
MIC49500-1.2WU	576-1817-5-ND	1.2V, 5A Dual Supply Low Voltage High Bandwidth LDO	TO-263-7	9.58	8.63	7.65
MIC49500WR	576-1466-1-ND	5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	9.58	8.63	7.65
MIC49500WR	576-1466-2-ND	5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	5391.00/750		
MIC49500WU	576-2189-ND	Adj., 5A Dual Supply Low Voltage High Bandwidth LDO	TO-263-7	9.58	8.63	7.65
MIC5306-2.6YD5 TR	576-3407-1-ND	150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1.14	.95	.76
MIC5306-2.6YD5 TR	576-3407-2-ND	150mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	1482.00/3,000		
MIC5370-4CYMT TR	576-3408-1-ND	1.2V/1.0V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56

MICREL Innovation Through Technology™ Digi-Reel® *(Cont.)*

LDO REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5370-4CYMT TR	576-3408-2-ND	1.2V/1.0V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-MFYMT TR	576-3409-1-ND	2.8V/1.5V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-MFYMT TR	576-3409-2-ND	2.8V/1.5V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-MMYMT TR	576-3410-1-ND	2.8V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-MMYMT TR	576-3410-2-ND	2.8V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-PMYMT TR	576-3411-1-ND	3.0V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-PMYMT TR	576-3411-2-ND	3.0V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-SGYMT TR	576-3412-1-ND	3.3V/1.8V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-SGYMT TR	576-3412-2-ND	3.3V/1.8V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-SMYMT TR	576-3413-1-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-SMYMT TR	576-3413-2-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5370-SPYMT TR	576-3414-1-ND	3.3V/3.0V, 150mA Dual LDO Regulator	6-TMLF	.84	.70	.56
MIC5370-SPYMT TR	576-3414-2-ND	3.3V/3.0V, 150mA Dual LDO Regulator	6-TMLF	1785.00/5,000		
MIC5371-4CYMT TR	576-3415-1-ND	1.2V/1.0V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-4CYMT TR	576-3415-2-ND	1.2V/1.0V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-MFYMT TR	576-3416-1-ND	2.8V/1.5V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-MFYMT TR	576-3416-2-ND	2.8V/1.5V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-MMYMT TR	576-3417-1-ND	2.8V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-MMYMT TR	576-3417-2-ND	2.8V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-PMYMT TR	576-3418-1-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-PMYMT TR	576-3418-2-ND	3.0V/3.0V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-SGYMT TR	576-3419-1-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-SGYMT TR	576-3419-2-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-SMYMT TR	576-3420-1-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-SMYMT TR	576-3420-2-ND	3.3V/2.8V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC5371-SPYMT TR	576-3421-1-ND	3.3V/3.0V, 150mA Dual LDO Regulator	6-TMLF	.93	.78	.62
MIC5371-SPYMT TR	576-3421-2-ND	3.3V/3.0V, 150mA Dual LDO Regulator	6-TMLF	1975.00/5,000		
MIC59150YME	576-3422-5-ND	1.5A Ultra High Speed LDO Regulator	8-SOIC	3.15	2.52	1.96
MIC59300-1.2WU	576-3423-5-ND	3A Ultra High Speed LDO Regulator	TO-263-5	5.02	4.02	3.39
MIC59300-1.2YME	576-3424-5-ND	3A Ultra High Speed LDO Regulator	8-eSOIC	4.70	3.77	2.93
MIC59300WU	576-3425-5-ND	3A Ultra High Speed LDO Regulator	TO-263-5	5.02	4.02	3.39
MIC59300YME	576-3426-5-ND	3A Ultra High Speed LDO Regulator	8-eSOIC	4.70	3.77	2.93
MIC68200-1.2YML TR	576-1953-1-ND	1.2V, 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200-1.2YML TR	576-1953-2-ND	1.2V, 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68200-1.5YML TR	576-1954-1-ND	1.5V, 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200-1.5YML TR	576-1954-2-ND	1.5V, 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68200-1.8YML TR	576-1469-1-ND	1.8V, 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200-1.8YML TR	576-1469-2-ND	1.8V, 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68200-2.5YML TR	576-1955-1-ND	2.5V, 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200-2.5YML TR	576-1955-2-ND	2.5V, 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68200-3.3YML TR	576-2896-1-ND	3.3V, 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200-3.3YML TR	576-2896-2-ND	3.3V, 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68200YML TR	576-2897-1-ND	Adj., 1A Sequencing LDO Regulator	10-MLF	3.83	3.06	2.38
MIC68200YML TR	576-2897-2-ND	Adj., 1A Sequencing LDO Regulator	10-MLF	10625.00/5,000		
MIC68220YML TR	576-1612-1-ND	Adj., 1A Dual LDO Regulator	20-MLF	6.90	5.52	4.66
MIC68220YML TR	576-1612-2-ND	Adj., 1A Dual LDO Regulator	10-MLF	21045.00/5,000		
MIC68400-1.2YML TR	576-3427-1-ND	1.2V, 4A Sequencing LDO Regulator	16-MLF	5.22	4.18	3.53
MIC68400-1.2YML TR	576-3427-2-ND	1.2V, 4A Sequencing LDO Regulator	16-MLF	15920.00/5,000		
MIC68400-1.8YML TR	576-2898-1-ND	1.8V, 4A Sequencing LDO Regulator	16-MLF	5.22	4.18	3.53
MIC68400-1.8YML TR	576-2898-2-ND	1.8V, 4A Sequencing LDO Regulator	16-MLF	15920.00/5,000		
MIC68400YML TR	576-2899-1-ND	Adj. , 4A Sequencing LDO Regulator	16-MLF	5.22	4.18	3.53
MIC68400YML TR	576-2899-2-ND	Adj. , 4A Sequencing LDO Regulator	16-MLF	15920.00/5,000		
MIC69101-1.8YML TR	576-3070-1-ND	1.8V, 1A, Single Low Volt., ULDO Reg.	10-MLF	2.66	2.13	1.66
MIC69101-1.8YML TR	576-3070-2-ND	1.8V, 1A, Single Low Volt., ULDO Reg.	10-MLF	7375.00/5,000		
MIC69103YML TR	576-3067-1-ND	Adj., 1A, Single Low Voltage, ULDO Reg.	10-MLF	2.66	2.13	1.66
MIC69103YML TR	576-3067-2-ND	Adj., 1A, Single Low Voltage, ULDO Reg.	10-MLF	7375.00/5,000		
MIC69151-1.8YME	576-3222-5-ND	1.8V, 1.5A, Single Low Volt., ULDO Reg.	8-SOIC	3.35	2.69	2.09
MIC69151-1.8YML TR	576-3072-1-ND	1.8V, 1.5A, Single Low Volt., ULDO Reg.	10-MLF	2.99	2.40	1.87
MIC69151-1.8YML TR	576-3072-2-ND	1.8V, 1.5A, Single Low Volt., ULDO Reg.	10-MLF	8315.00/5,000		
MIC69153YME	576-3223-1-ND	Adj., 1.5A, Single Low Volt., ULDO Reg.	8-SOIC	3.35	2.69	2.09
MIC69153YME	576-3223-2-ND	Adj., 1.5A, Single Low Volt., ULDO Reg.	8-SOIC	4693.50/2,500		
MIC69153YML TR	576-3073-1-ND	Adj., 1.5A, Single Low Volt., ULDO Reg.	10-MLF	2.99	2.40	1.87
MIC69153YML TR	576-3073-2-ND	Adj., 1.5A, Single Low Volt., ULDO Reg.	10-MLF	8315.00/5,000		
MIC69301-1.2WR	576-3053-ND	1.2V, 3A, Single Low Volt., ULDO Reg.	5-SPAK	4.55	3.64	2.83
MIC69302WR	576-2986-ND	Adj., 3A, Single Low Voltage, ULDO Reg.	5-SPAK	4.55	3.64	2.83
MIC69303YME TR	576-3224-1-ND	Adj., 3A, Single Low Voltage, ULDO Reg.	8-SOIC	4.12	3.30	2.57
MIC69303YME TR	576-3224-2-ND	Adj., 3A, Single Low Voltage, ULDO Reg.	8-SOIC	5764.50/2,500		
MIC69502WR	576-1613-ND	Adj., 5A µCap LDO Regulator	7-SPAK	7.42	5.94	5.01

MICREL Innovation Through Technology™ Digi-Reel®

MOSFET DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC44F18YML TR	576-2718-1-ND	6A Non-Inverting HS MOSFET Driver	8-MLF	2.28	1.82	1.37
MIC44F18YML TR	576-2718-2-ND	6A Non-Inverting HS MOSFET Driver	8-MLF	5690.00/5,000		
MIC44F18YMME	576-1501-ND	6A Non-Inverting HS MOSFET Driver	8-MSOP	2.32	1.86	1.45
MIC44F19YML TR	576-2719-1-ND	6A Inverting HS MOSFET Driver	8-MLF	2.28	1.82	1.37
MIC44F19YML TR	576-2719-2-ND	6A Inverting HS MOSFET Driver	8-MLF	5690.00/5,000		
MIC44F19YMME	576-1502-ND	6A Inverting HS MOSFET Driver	8-MSOP	2.32	1.86	1.45
MIC44F20YML TR	576-3514-1-ND	6A Inverting HS MOSFET Driver ***NEW!***	8-MLF	2.28	1.82	1.37
MIC44F20YML TR	576-3514-2-ND	6A Inverting HS MOSFET Driver ***NEW!***	8-MLF	5687.50/5,000		
MIC44F20YMME	576-1503-ND	6A Inverting HS MOSFET Driver	8-MSOP	2.32	1.86	1.45
MIC4100YM	576-1183-ND	100V Half-Bridge MOSFET Driver	8-SOIC	3.96	3.17	2.47
MIC4101YM	576-3508-5-ND	100V Half-Bridge MOSFET Driver ***NEW!***	8-SOIC	3.96	3.17	2.47
MIC4102YM	576-1184-ND	100V Half-Bridge MOSFET Driver	8-SOIC	3.96	3.17	2.47
MIC4103YM	576-1589-ND	100V Half-Bridge MOSFET Driver	8-SOIC	4.43	3.55	2.76
MIC4104YM	576-1590-ND	100V Half-Bridge MOSFET Driver TTL	8-SOIC	4.43	3.55	2.76
MIC4120YME	576-1445-ND	6A Peak Low-Side MOSFET Driver	8-SOIC	2.40	1.92	1.44
MIC4120YML TR	576-1480-1-ND	6A Peak Low-Side MOSFET Driver	8-MLF	2.70	2.16	1.68
MIC4120YML TR	576-1480-2-ND	6A Peak Low-Side MOSFET Driver	8-MLF	7500.00/5,000		
MIC4123YME	576-1447-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.32	1.86	1.45
MIC4124YME	576-1448-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.32	1.86	1.45
MIC4125YME	576-1449-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.32	1.86	1.45
MIC4126YME	576-1185-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.36	1.89	1.47
MIC4126YMME	576-1788-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	2.48	1.98	1.54
MIC4127YME	576-1186-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.36	1.89	1.47
MIC4127YML TR	576-2716-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MLF	2.59	2.07	1.61
MIC4127YML TR	576-2716-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MLF	7190.00/5,000		
MIC4127YMME	576-1789-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	2.48	1.98	1.54
MIC4128YME	576-1450-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.36	1.89	1.47
MIC4128YML TR	576-2717-1-ND	Dual 1.5A MOSFET Driver	8-MLF	2.59	2.07	1.61
MIC4128YML TR	576-2717-2-ND	Dual 1.5A MOSFET Driver	8-MLF	7190.00/5,000		
MIC4128YMME	576-1790-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	2.48	1.98	1.54
MIC4129YME	576-1446-ND	6A Peak Low-Side MOSFET Driver	8-SOIC	2.40	1.92	1.44
MIC4129YML TR	576-1791-1-ND	6A Peak Low-Side MOSFET Driver	8-MLF	2.70	2.16	1.68

** RoHS Compliant*

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(Continued)

MOSFET DRIVERS (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC4129YML TR	576-1791-2-ND	6A Peak Low-Side MOSFET Driver	8-MLF	7500.00/5,000		
MIC4223YM	576-3547-5-ND	Dual, 4A Inverting Low-Side MOSFET Driver ***NEW!***	8-SOIC	1.68	1.34	1.01
MIC4223YMME	576-3548-5-ND	Dual, 4A Inverting Low-Side MOSFET Driver ***NEW!***	8-eMSOP	1.93	1.54	1.16
MIC4224YM	576-3549-5-ND	Dual, 4A Non-Inverting Low-Side MOSFET Driver ***NEW!***	8-SOIC	1.68	1.34	1.01
MIC4224YMME	576-3550-5-ND	Dual, 4A Non-Inverting Low-Side MOSFET Driver ***NEW!***	8-eMSOP	1.93	1.54	1.16
MIC4225YM	576-3551-5-ND	4A, Inverting/Non-Inverting Low-Side MOSFET Driver ***NEW!***	8-SOIC	1.68	1.34	1.01
MIC4225YMME	576-3552-5-ND	4A, Inverting/Non-Inverting Low-Side MOSFET Driver ***NEW!***	8-eMSOP	1.93	1.54	1.16
MIC4416YM4 TR	576-1187-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1.47	1.23	.98
MIC4416YM4 TR	576-1187-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1911.00/3,000		
MIC4417YM4 TR	576-1188-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1.47	1.23	.98
MIC4417YM4 TR	576-1188-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1911.00/3,000		
MIC4420YM	576-3376-5-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.63	1.30	.98
MIC4420YM TR	576-1189-1-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.63	1.30	.98
MIC4420YM TR	576-1189-2-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	2080.00/2,500		
MIC4420YMM	576-2314-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-MSOP	1.85	1.48	1.11
MIC4420YN	576-1190-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.95	1.56	1.17
MIC4420ZM	576-1191-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.55	1.24	.93
MIC4420ZN	576-1192-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.85	1.48	1.11
MIC4420ZT	576-2315-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	TO-220-5	3.56	2.85	2.22
MIC4421AYM	576-2316-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	2.08	1.66	1.25
MIC4421AYN	576-3509-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process ***NEW!***	8-Dip	2.23	1.78	1.34
MIC4421AZM	576-3510-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process ***NEW!***	8-SOIC	1.75	1.40	1.05
MIC4421AZN	576-3511-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process ***NEW!***	8-Dip	2.13	1.70	1.28
MIC4421AZT	576-3512-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process ***NEW!***	TO-220-5	4.48	3.59	2.79
MIC4421YM	576-1193-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.68	1.34	1.01
MIC4421YN	576-2317-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	2.03	1.62	1.22
MIC4421ZM	576-1792-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.60	1.28	.96
MIC4421ZN	576-1520-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.93	1.54	1.16
MIC4421ZT	576-1521-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	TO-220-5	4.07	3.26	2.54
MIC4422AYM	576-2318-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	2.08	1.66	1.25
MIC4422AYN	576-2319-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	2.25	1.80	1.40
MIC4422YM TR	576-1194-1-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.68	1.34	1.01
MIC4422YM TR	576-1194-2-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	2145.00/2,500		
MIC4422YN	576-1195-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	2.03	1.62	1.22
MIC4422ZN	576-2320-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.93	1.54	1.16
MIC4422ZM	576-1793-5-ND	9A Peak Low Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.60	1.28	.96
MIC4422ZT	576-2321-ND	9A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	TO-220-5	4.07	3.26	2.54
MIC4423YM	576-2322-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.73	1.38	1.04
MIC4423YN	576-1196-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.43	1.95	1.52
MIC4423YWM	576-2323-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	16-SOIC	2.43	1.95	1.52
MIC4423ZN	576-1197-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.30	1.84	1.43
MIC4423ZWM	576-1794-5-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	16-SOIC	2.32	1.86	1.45
MIC4424YM	576-1198-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.73	1.38	1.04
MIC4424YM TR	576-1546-1-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.73	1.38	1.04
MIC4424YM TR	576-1546-2-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	2207.50/2,500		
MIC4424YN	576-1199-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.43	1.95	1.52
MIC4424YWM	576-1795-5-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	16-SOIC	2.43	1.95	1.52
MIC4424ZN	576-1200-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.30	1.84	1.43
MIC4424ZWM	576-2324-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	16-SOIC	2.32	1.86	1.45
MIC4425YM	576-1796-5-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.73	1.38	1.04
MIC4425YN	576-1201-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.43	1.95	1.52
MIC4425ZWM	576-2325-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	16-SOIC	2.32	1.86	1.45
MIC4426YM	576-1523-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98
MIC4426YM TR	576-1202-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98
MIC4426YM TR	576-1202-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2080.00/2,500		
MIC4426YMM	576-1524-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.85	1.48	1.11
MIC4426YN	576-1203-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.95	1.56	1.17
MIC4426ZM	576-1797-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.55	1.24	.93
MIC4426ZN	576-2326-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.85	1.48	1.11
MIC4427YM	576-1525-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98
MIC4427YM TR	576-1204-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98

MOSFET DRIVERS (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC4427YM TR	576-1204-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2080.00/2,500		
MIC4427YMM	576-3377-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.85	1.48	1.11
MIC4427YMM TR	576-1547-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.85	1.48	1.11
MIC4427YMM TR	576-1547-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	2367.50/2,500		
MIC4427YN	576-1205-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.95	1.56	1.17
MIC4427ZM	576-3513-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver ***NEW!***	8-SOIC	1.55	1.24	.93
MIC4427ZM TR	576-1548-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.55	1.24	.93
MIC4427ZM TR	576-1548-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1985.00/2,500		
MIC4427ZN	576-1526-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.85	1.48	1.11
MIC4428YM	576-3406-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98
MIC4428YM TR	576-1206-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.63	1.30	.98
MIC4428YM TR	576-1206-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2080.00/2,500		
MIC4428YMM	576-1527-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.85	1.48	1.11
MIC4428YN	576-2327-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.95	1.56	1.17
MIC4428ZM	576-1798-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.55	1.24	.93
MIC4428ZN	576-2328-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.85	1.48	1.11
MIC4429YM	576-1528-5-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.63	1.30	.98
MIC4429YMM	576-2329-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-MSOP	1.85	1.48	1.11
MIC4429YN	576-2330-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.95	1.56	1.17
MIC4429ZM	576-1799-5-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-SOIC	1.55	1.24	.93
MIC4429ZT	576-3111-5-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	TO-220-5	3.56	2.85	2.22
MIC4429ZN	576-1207-ND	6A Peak Low-Side MOSFET Driver Bipolar/ CMOS/DMOS Process	8-Dip	1.85	1.48	1.11
MIC4451YM	576-1208-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.28	1.82	1.37
MIC4451YN	576-1209-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.48	1.98	1.54
MIC4451ZT	576-1529-5-ND	12A Peak Low-Side MOSFET Driver	TO-220-5	5.15	4.13	3.21
MIC4452YM	576-1530-5-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.28	1.82	1.37
MIC4452YM TR	576-1210-1-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.28	1.82	1.37
MIC4452YM TR	576-1210-2-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2912.50/2,500		
MIC4452YN	576-1211-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.48	1.98	1.54
MIC4452ZT	576-1212-ND	12A Peak Low-Side MOSFET Driver	TO-220-5	5.15	4.13	3.21
MIC4467YWM	576-2331-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.57	3.66	2.85
MIC4467ZN	576-2332-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.37	3.50	2.72
MIC4467ZWM	576-2333-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.37	3.50	2.72
MIC4468YN	576-2334-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.57	3.66	2.85
MIC4468YWM	576-2335-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.57	3.66	2.85
MIC4468ZN	576-2336-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.37	3.50	2.72
MIC4468ZWM	576-1213-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.37	3.50	2.72
MIC4469YN	576-1214-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.57	3.66	2.85
MIC4469YWM	576-1215-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.57	3.66	2.85
MIC4469ZWM	576-2337-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.37	3.50	2.72
MIC5011YM	576-1230-ND	Min. Part High/Low-Side MOSFET Driver	8-SOIC	4.16	3.33	2.59
MIC5011YN	576-2351-ND	Min. Part High/Low-Side MOSFET Driver	8-Dip	5.00	4.00	3.11
MIC5013YM	576-1231-ND	Protected High/Low-Side MOSFET Driver	8-SOIC	4.16	3.33	2.59
MIC5013YN	576-1232-ND	Protected High/Low-Side MOSFET Driver	8-Dip	5.00	4.00	3.11
MIC5014YM	576-2352-ND	High/Low-Side MOSFET Driver	8-SOIC	2.35	1.88	1.41
MIC5014YM TR	576-1233-1-ND	High/Low-Side MOSFET Driver	8-SOIC	2.35	1.88	1.41
MIC5014YM TR	576-1233-2-ND	High/Low-Side MOSFET Driver	8-SOIC	3007.50/2,500		
MIC5014YN	576-1234-ND	High/Low-Side MOSFET Driver	8-Dip	2.52	2.02	1.57
MIC5015YM	576-1235-ND	High/Low-Side MOSFET Driver	8-SOIC	2.35	1.88	1.41
MIC5015YN	576-2353-ND	High/Low-Side MOSFET Driver	8-Dip	2.35	1.88	1.41
MIC5018YM4 TR	576-1238-1-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	1.75	1.40	1.05
MIC5018YM4 TR	576-1238-2-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	2688.00/3,000		
MIC5020YM	576-1818-5-ND	Current Sensing Low-Side MOSFET Driver	8-SOIC	2.28	1.82	1.37
MIC5021YM	576-2354-ND	High Speed, High-Side MOSFET Driver	8-SOIC	2.43	1.94	1.46
MIC5021YM TR	576-1239-1-ND	High Speed, High-Side MOSFET Driver	8-SOIC	2.43	1.94	1.46
MIC5021YM TR	576-1239-2-ND	High Speed, High-Side MOSFET Driver	8-SOIC	3105.00/2,500		
MIC5021YN	576-1240-ND	High Speed, High-Side MOSFET Driver	8-Dip	2.61	2.09	1.63

OPERATIONAL AMPS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC7101AYM5 TR	576-2574-1-ND	Low Power Op Amp	SOT-23-5	.88	.66	.50
LMC7101AYM5 TR	576-2574-2-ND	Low Power Op Amp	SOT-23-5	858.00/3,000		
LMC7101BYM5 TR	576-2575-1-ND	Low Power Op Amp	SOT-23-5	.64	.48	.36
LMC7101BYM5 TR	576-2575-2-ND	Low Power Op Amp	SOT-23-5	624.00/3,000		
MIC860YC5 TR	576-2931-1-ND	Teeny™ Ultra Low Power Op Amp	SC70-5	1.30	1.04	.78
MIC860YC5 TR	576-2931-2-ND	Teeny™ Ultra Low Power Op Amp	SC70-5	1998.00/3,000		
MIC861YC5 TR	576-2932-1-ND	Teeny™ Ultra Low Power Op Amp	SC70-5	1.30	1.04	.78
MIC861YC5 TR	576-2932-2-ND	Teeny™ Ultra Low Power Op Amp	SC70-5	1998.00/3,000		
MIC862YM8 TR	576-2933-1-ND	Dual Ultra Low Power Op Amp	SOT-23-8	2.03	1.62	1.22
MIC862YM8 TR	576-2933-2-ND	Dual Ultra Low Power Op Amp	SOT-23-8	3111.00/3,000		
MIC863YM8 TR	576-2934-1-ND	Dual Ultra Low Power Op Amp	SOT-23-8	1.83	1.46	1.10
MIC863YM8 TR	576-2934-2-ND	Dual Ultra Low Power Op Amp	SOT-23-8	2802.00/3,000		
MIC910YM5 TR	576-2935-1-ND	135MHz, 2.4mA Low Power Op Amp	SOT-23-5	1.83	1.46	1.10
MIC910YM5 TR	576-2935-2-ND	135MHz, 2.4mA Low Power Op Amp	SOT-23-5	2802.00/3,000		
MIC911YM5 TR	576-3000-1-ND	105MHz, 1.25mA LP Op Amp	SOT-23-5	1.83	1.46	1.10
MIC911YM5 TR	576-3000-2-ND	105MHz, 1.25mA LP Op Amp	SOT-23-5	2802.00/3,000		
MIC6211YM5 TR	576-1314-1-ND	IttyBitty™ Operational Amp	SOT-23-5	.92	.69	.52
MIC6211YM5 TR	576-1314-2-ND	IttyBitty™ Operational Amp	SOT-23-5	897.00/3,000		
MIC7111YM5 TR	576-2900-1-ND	1.8V, IttyBitty™ R-R I/O Op Amp	SOT-23-5	.96	.72	.54
MIC7111YM5 TR	576-2900-2-ND	1.8V, IttyBitty™ R-R I/O Op Amp	SOT-23-5	936.00/3,000		
MIC7122YMM TR	576-1317-1-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1.28	1.02	.77
MIC7122YMM TR	576-1317-2-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1632.50/2,500		
MIC7221YM5 TR	576-2901-1-ND	IttyBitty™ R-R Input Comparator	SOT-23-5	.64	.48	.36
MIC7221YM5 TR	576-2901-2-ND	IttyBitty™ R-R Input Comparator	SOT-23-5	624.00/3,000		
MIC7300YM5 TR	576-1319-1-ND	High Output Driver R/R Op Amp	SOT-23-5	.76	.57	.43
MIC7300YM5 TR	576-1319-2-ND	High Output Driver R/R Op Amp	SOT-23-5	741.00/3,000		

POWER SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2560-0YWM	576-2183-ND	PCMCIA Card Socket Switching Matrix	16-SOIC	4.93	3.95	3.07
MIC2560-1YWM	576-2184-ND	PCMCIA Card Socket Switching Matrix	16-SOIC	4.93	3.95	3.07
MIC2561-0YM	576-2185-ND	PCMCIA Card Socket Switching Matrix	14-SOIC	3.47	2.78	2.16
MIC2561-1YM	576-2186-ND	PCMCIA Card Socket Switching Matrix	14-SOIC	3.47	2.78	2.16

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(Continued)

POWER SWITCHES (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC2562A-1YM	576-1090-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	2.48	1.98	1.54
MIC2562A-1YTS	576-1742-5-ND	PCMCIA/CardBus Socket Power Controller	16-TSSOP	2.68	2.15	1.67
MIC2563A-0YSM	576-2187-ND	Dual-Slot PCMCIA/CardBus Power Controller	28-SSOP	4.05	3.24	2.52
MIC2563A-1YSM	576-1091-ND	Dual-Slot PCMCIA/CardBus Power Controller	28-SSOP	4.05	3.24	2.52
MIC2564A-1YTS	576-2188-ND	Dual Serial PCMCIA/CardBus Power Controller	24-SSOP	4.66	3.73	2.90
MIC2568-0YSM	576-2189-ND	Dual-Slot PCMCIA/CardBus Power Controller	28-SSOP	3.13	2.51	1.95
MIC2569YQS	576-2989-ND	CableCARD™ Power Switch	16-QSOP	4.12	3.30	2.57

REFERENCES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LM4040CYM3-2.5 TR	576-1046-1-ND	2.5V Prec. MPU Shunt Voltage Ref.	SOT-23	.72	.54	.41
LM4040CYM3-2.5 TR	576-1046-2-ND	2.5V Prec. MPU Shunt Voltage Ref	SOT-23	702.00/3,000		
LM4040CYM3-4.1 TR	576-2568-1-ND	4.096V Prec. MPU Shunt Voltage Ref.	SOT-23	.72	.54	.41
LM4040CYM3-4.1 TR	576-2568-2-ND	4.096V Prec. MPU Shunt Voltage Ref.	SOT-23	702.00/3,000		
LM4040CYM3-5.0 TR	576-2569-1-ND	5.0V Prec. MPU Shunt Voltage Ref.	SOT-23	.72	.54	.41
LM4040CYM3-5.0 TR	576-2569-2-ND	5.0V Prec. MPU Shunt Voltage Ref.	SOT-23	702.00/3,000		
LM4040DYM3-2.5 TR	576-1047-1-ND	2.5V Prec. MPU Shunt Voltage Ref.	SOT-23	.56	.42	.32
LM4040DYM3-2.5 TR	576-1047-2-ND	2.5V Prec. MPU Shunt Voltage Ref.	SOT-23	546.00/3,000		
LM4040DYM3-4.1 TR	576-1048-1-ND	4.096V Prec. MPU Shunt Voltage Ref.	SOT-23	.56	.42	.32
LM4040DYM3-4.1 TR	576-1048-2-ND	4.096V Prec. MPU Shunt Voltage Ref.	SOT-23	546.00/3,000		
LM4040DYM3-5.0 TR	576-2570-1-ND	5.0V Prec. MPU Shunt Voltage Ref.	SOT-23	.56	.42	.32
LM4040DYM3-5.0 TR	576-2570-2-ND	5.0V Prec. MPU Shunt Voltage Ref.	SOT-23	546.00/3,000		
LM4041CYM3-ADJ TR	576-1049-1-ND	Adj. Prec. MPU Shunt Voltage Ref.	SOT-23	.72	.54	.41
LM4041CYM3-ADJ TR	576-1049-2-ND	Adj. Prec. MPU Shunt Voltage Ref.	SOT-23	702.00/3,000		
LM4041CYM3-1.2 TR	576-2571-1-ND	1.225V Prec. MPU Shunt Voltage Ref.	SOT-23	.72	.54	.41
LM4041DYM3-1.2 TR	576-2572-1-ND	1.225V Prec. MPU Shunt Voltage Ref.	SOT-23	.56	.42	.32
LM4041DYM3-1.2 TR	576-2572-2-ND	1.225V Prec. MPU Shunt Voltage Ref.	SOT-23	546.00/3,000		
LM4041DYM3-ADJ TR	576-2573-1-ND	Adj. Prec. MPU Shunt Voltage Ref.	SOT-23	.56	.42	.32
LM4041DYM3-ADJ TR	576-2573-2-ND	Adj. Prec. MPU Shunt Voltage Ref.	SOT-23	546.00/3,000		

SUPERVISORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC705MY	576-2410-ND	4.65V µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC706RMY	576-1956-5-ND	2.63V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC706SMY	576-1957-5-ND	2.93V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC706TMY	576-2411-ND	3.08V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC708MY	576-2412-ND	4.4V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC708RMY	576-3517-5-ND	4.4V, µP Supervisory Circuit ***NEW!***	8-SOIC	1.47	1.23	.98
MIC708SMY	576-2413-ND	2.93V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC708TMY	576-2414-ND	3.08V, µP Supervisory Circuit	8-SOIC	1.47	1.23	.98
MIC809-5SUY TR	576-2903-1-ND	2.93V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809-5SUY TR	576-2903-2-ND	2.93V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC809-5SYC3 TR	576-2904-1-ND	2.93V, Microprocessor Supervisory Circuit	SC-70	.84	.70	.56
MIC809-5SYC3 TR	576-2904-2-ND	2.93V, Microprocessor Supervisory Circuit	SC-70	1092.00/3,000		
MIC809JUY TR	576-2905-1-ND	4.0V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809JUY TR	576-2905-2-ND	4.0V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC809LUY TR	576-2906-1-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809LUY TR	576-2906-2-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC809MUY TR	576-2907-1-ND	4.38V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809MUY TR	576-2907-2-ND	4.38V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC809RUY TR	576-1321-1-ND	2.63V Microprocessor Reset Circuit	SOT-23-3	.92	.69	.52
MIC809RUY TR	576-1321-2-ND	2.63V Microprocessor Reset Circuit	SOT-23-3	897.00/3,000		
MIC809RYC3 TR	576-1442-1-ND	2.63V Microprocessor Reset Circuit	SC70	.84	.70	.56
MIC809RYC3 TR	576-1442-2-ND	2.63V Microprocessor Reset Circuit	SC70	1092.00/3,000		
MIC809SUY TR	576-2908-1-ND	2.93V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809SUY TR	576-2908-2-ND	2.93V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC809TUY TR	576-2909-1-ND	3.08V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC809TUY TR	576-2909-2-ND	3.08V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC810LUY TR	576-2910-1-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC810LUY TR	576-2910-2-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC810MUY TR	576-2911-1-ND	4.38V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC810MUY TR	576-2911-2-ND	4.38V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC810RUY TR	576-2912-1-ND	2.63V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC810RUY TR	576-2912-2-ND	2.63V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC810RYC3 TR	576-1443-1-ND	2.63V Microprocessor Reset Circuit	SC70	.84	.70	.56
MIC810RYC3 TR	576-1443-2-ND	2.63V Microprocessor Reset Circuit	SC70	1092.00/3,000		
MIC810TUY TR	576-2913-1-ND	3.08V, Microprocessor Supervisory Circuit	SOT-23-3	.92	.69	.52
MIC810TUY TR	576-2913-2-ND	3.08V, Microprocessor Supervisory Circuit	SOT-23-3	897.00/3,000		
MIC811JUY TR	576-2914-1-ND	4.0V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC811JUY TR	576-2914-2-ND	4.0V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC811LUY TR	576-1324-1-ND	4.63V Microprocessor Reset Circuit	SOT-143	.84	.70	.56
MIC811LUY TR	576-1324-2-ND	4.63V Microprocessor Reset Circuit	SOT-143	1092.00/3,000		
MIC811MUY TR	576-2915-1-ND	4.38V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC811MUY TR	576-2915-2-ND	4.38V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC811RUY TR	576-2916-1-ND	2.63V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC811RUY TR	576-2916-2-ND	2.63V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC811SUY TR	576-1325-1-ND	2.93V Microprocessor Reset Circuit	SOT-143	.84	.70	.56
MIC811SUY TR	576-1325-2-ND	2.93V Microprocessor Reset Circuit	SOT-143	1092.00/3,000		
MIC811TUY TR	576-1326-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.84	.70	.56
MIC811TUY TR	576-1326-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	1092.00/3,000		
MIC812LUY TR	576-2917-1-ND	4.63V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC812LUY TR	576-2917-2-ND	4.63V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC812MUY TR	576-2918-1-ND	4.38V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC812MUY TR	576-2918-2-ND	4.38V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC812SUY TR	576-2919-1-ND	2.93V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC812SUY TR	576-2919-2-ND	2.93V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC812TUY TR	576-2920-1-ND	3.08V, Microprocessor Supervisory Circuit	SOT-143-4	.84	.70	.56
MIC812TUY TR	576-2920-2-ND	3.08V, Microprocessor Supervisory Circuit	SOT-143-4	1092.00/3,000		
MIC1232MY TR	576-1053-1-ND	µP Supervisory Circuit	8-SOIC	1.73	1.38	1.04
MIC1232MY TR	576-1053-2-ND	µP Supervisory Circuit	8-SOIC	2207.50/2,500		
MIC1232NY	576-2132-ND	µP Supervisory Circuit	8-Dip	2.05	1.64	1.23
MIC1810-5UY TR	576-2578-1-ND	Microprocessor Reset Circuit	SOT-23-3	1.11	.93	.74
MIC1810-5UY TR	576-2578-2-ND	Microprocessor Reset Circuit	SOT-23-3	1443.00/3,000		
MIC1810-10UY TR	576-2577-1-ND	Microprocessor Reset Circuit	SOT-23-3	1.11	.93	.74
MIC1810-10UY TR	576-2577-2-ND	Microprocessor Reset Circuit	SOT-23-3	1443.00/3,000		
MIC1815-10UY TR	576-1056-1-ND	Microprocessor Reset Circuit	SOT-23-3	1.11	.93	.74
MIC1815-20UY TR	576-2579-1-ND	Microprocessor Reset Circuit	SOT-23-3	1.11	.93	.74
MIC1815-20UY TR	576-2579-2-ND	Microprocessor Reset Circuit	SOT-23-3	1443.00/3,000		

SUPERVISORS (Cont.)

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Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC1832MY	576-2133-ND	µP Supervisory Circuit	8-SOIC	2.75	2.20	1.71
MIC2755YMM	576-2202-ND	Battery System Supervisor	8-MSOP	2.81	2.25	1.75
MIC2772-L3L3YML TR	576-2665-1-ND	4.63V, Dual Voltage Supervisor	8-MLF	1.48	1.18	.89
MIC2772-L3L3YML TR	576-2665-2-ND	4.63V, Dual Voltage Supervisor	8-MLF	3690.00/5,000		
MIC2774H-29YM5 TR	576-2666-1-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774H-29YM5 TR	576-2666-2-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-17YM5 TR	576-2667-1-ND	1.69V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-17YM5 TR	576-2667-2-ND	1.69V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-22YM5 TR	576-2668-1-ND	2.25V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-22YM5 TR	576-2668-2-ND	2.25V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-25YM5 TR	576-2669-1-ND	2.53V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-25YM5 TR	576-2669-2-ND	2.53V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-29YM5 TR	576-2670-1-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-29YM5 TR	576-2670-2-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-31YM5 TR	576-2671-1-ND	3.09V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-31YM5 TR	576-2671-2-ND	3.09V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-44YM5 TR	576-2672-1-ND	4.43V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-44YM5 TR	576-2672-2-ND	4.43V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774L-46YM5 TR	576-2673-1-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774L-46YM5 TR	576-2673-2-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-17YM5 TR	576-2674-1-ND	1.69V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-17YM5 TR	576-2674-2-ND	1.69V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-22YM5 TR	576-2675-1-ND	2.25V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-22YM5 TR	576-2675-2-ND	2.25V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-23YM5 TR	576-2676-1-ND	2.34V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-23YM5 TR	576-2676-2-ND	2.34V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-28YM5 TR	576-2677-1-ND	2.81V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-28YM5 TR	576-2677-2-ND	2.81V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-29YM5 TR	576-1101-1-ND	2.93V, Dual µP Low Voltage Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-29YM5 TR	576-1101-2-ND	2.93V, Dual µP Low Voltage Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-31YM5 TR	576-1102-1-ND	3.09V, Dual µP Low Voltage Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-31YM5 TR	576-1102-2-ND	3.09V, Dual µP Low Voltage Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-44YM5 TR	576-2678-1-ND	4.43V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-44YM5 TR	576-2678-2-ND	4.43V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2774N-46YM5 TR	576-2679-1-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	1.30	1.04	.78
MIC2774N-46YM5 TR	576-2679-2-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	1998.00/3,000		
MIC2775-28YM5 TR	576-2680-1-ND	2.81V, µP Voltage Supervisor	SOT-23-5	1.35	1.13	.90
MIC2775-28YM5 TR	576-2680-2-ND	2.81V, µP Voltage Supervisor	SOT-23-5	1755.00/3,000		
MIC2775-29YM5 TR	576-2681-1-ND	2.93V, µP Voltage Supervisor	SOT-23-5	1.35	1.13	.90
MIC2775-29YM5 TR	576-2681-2-ND	2.93V, µP Voltage Supervisor	SOT-23-5	1755.00/3,000		
MIC2775-31YM5 TR	576-2682-1-ND	3.09V, µP Voltage Supervisor	SOT-23-5	1.35	1.13	.90
MIC2775-31YM5 TR	576-2682-2-ND	3.09V, µP Voltage Supervisor	SOT-23-5	1755.00/3,000		
MIC2775-44YM5 TR	576-2683-1-ND	4.43V, µP Voltage Supervisor	SOT-23-5	1.35	1.13	.90
MIC2775-44YM5 TR	576-2683-2-ND	4.43V, µP Voltage Supervisor	SOT-23-5	1755.00/3,000		
MIC2775-46YM5 TR	576-2684-1-ND	4.68V, µP Voltage Supervisor	SOT-23-5	1.35	1.13	.90
MIC2775-46YM5 TR	576-2684-2-ND	4.68V, µP Voltage Supervisor	SOT-23-5	1755.00/3,000		
MIC2776H-YM5 TR	576-2685-1-ND	µP Low Voltage Supervisor	SOT-23-5	1.44	1.20	.96
MIC2776H-YM5 TR	576-2685-2-ND	µP Low Voltage Supervisor	SOT-23-5	1872.00/3,000		
MIC2776L-YM5 TR	576-2686-1-ND	µP Low Voltage Supervisor	SOT-23-5	1.44	1.20	.96
MIC2776L-YM5 TR	576-2686-2-ND	µP Low Voltage Supervisor	SOT-23-5	1872.00/3,000		
MIC2776N-YM5 TR	576-1103-1-ND	µP Low Voltage Supervisor	SOT-23-5	1.44	1.20	.96
MIC2776N-YM5 TR	576-1103-2-ND	µP Low Voltage Supervisor	SOT-23-5	1872.00/3,000		
MIC2777-29YM5 TR	576-2687-1-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	1.40	1.12	.84
MIC2777-29YM5 TR	576-2687-2-ND	2.93V, Dual Micro-Power LV Supervisor	SOT-23-5	2151.00/3,000		
MIC2777-31YM5 TR	576-2688-1-ND	3.09V, Dual Micro-Power LV Supervisor	SOT-23-5	1.40	1.12	.84
MIC2777-31YM5 TR	576-2688-2-ND	3.09V, Dual Micro-Power LV Supervisor	SOT-23-5	2151.00/3,000		
MIC2777-46YM5 TR	576-2689-1-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	1.40	1.12	.84
MIC2777-46YM5 TR	576-2689-2-ND	4.68V, Dual Micro-Power LV Supervisor	SOT-23-5	2151.00/3,000		
MIC2778-1YM5 TR	576-2690-1-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	1.68	1.34	1.01
MIC2778-1YM5 TR	576-2690-2-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	2574.00/3,000		
MIC2778-2YM5 TR	576-2691-1-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	1.68	1.34	1.01
MIC2778-2YM5 TR	576-2691-2-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	2574.00/3,000		
MIC2779H-1YM5 TR	576-2692-1-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	1.75	1.40	1.05
MIC2779H-1YM5 TR	576-2692-2-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	2688.00/3,000		
MIC2779L-1YM5 TR	576-2693-1-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	1.75	1.40	1.05
MIC2779L-1YM5 TR	576-2693-2-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	2688.00/3,000		
MIC2779L-2YM5 TR	576-2694-1-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	1.75	1.40	1.05
MIC2779L-2YM5 TR	576-2694-2-ND	Voltage Monitor with Adj. Hysteresis	SOT-23-5	2688.00/3,000		
MIC2785-16YFT TR	576-3470-1-ND	Dual Supply Volt. Monitor, Manual Reset ***NEW!***	6-TMLF	.96	.80	.64
MIC2785-16YFT TR	576-3470-2-ND	Dual Supply Volt. Monitor, Manual Reset ***NEW!***	6-TMLF	2040.00/5,000		
MIC6315-26D2UY TR	576-2885-1-ND	2.63V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-26D2UY TR	576-2885-2-ND	2.63V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-26D3UY TR	576-2886-1-ND	2.63V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-26D3UY TR	576-2886-2-ND	2.63V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-29D3UY TR	576-2887-1-ND	2.93V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-29D3UY TR	576-2887-2-ND	2.93V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-29D4UY TR	576-2888-1-ND	2.93V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-29D4UY TR	576-2888-2-ND	2.93V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-30D2UY TR	576-2889-1-ND	3.0V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-30D2UY TR	576-2889-2-ND	3.0V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-30D3UY TR	576-2890-1-ND	3.0V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-30D3UY TR	576-2890-2-ND	3.0V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-31D2UY TR	576-2891-1-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-31D2UY TR	576-2891-2-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-31D3UY TR	576-2892-1-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-31D3UY TR	576-2892-2-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-31D4UY TR	576-2893-1-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-31D4UY TR	576-2893-2-ND	3.08V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-42D3UY TR	576-3286-1-ND	4.2V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-42D3UY TR	576-3286-2-ND	4.2V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-44D4UY TR	576-1952-1-ND	4.38V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-44D4UY TR	576-1952-2-ND	4.38V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-46D3UY TR	576-2894-1-ND	4.63V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-46D3UY TR	576-2894-2-ND	4.63V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC6315-46D4UY TR	576-2895-1-ND	4.63V Open-Drain µP Reset Generator	SOT-143-4	.93	.78	.62
MIC6315-46D4UY TR	576-2895-2-ND	4.63V Open-Drain µP Reset Generator	SOT-143-4	1209.00/3,000		
MIC8114TUY TR	576-1322-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.92	.69	.52
MIC8114TUY TR	576-1322-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	897.00/3,000		
MIC8115TUY TR	576-1323-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.92	.69	.52
MIC8115TUY TR	576-1323-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	897.00/3,000		

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(Continued)

TIMERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC1555YM5 TR	576-2576-1-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	.87	.73	.58
MIC1555YM5 TR	576-2576-2-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	1131.00/3,000		
MIC1557YM5 TR	576-1055-1-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	.87	.73	.58
MIC1557YM5 TR	576-1055-2-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	1131.00/3,000		

USB TRANSCEIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2550AYML TR	576-2661-1-ND	USB Transceiver	16-MLF	1.88	1.50	1.13
MIC2550AYML TR	576-2661-2-ND	USB Transceiver	16-MLF	4690.00/5,000		
MIC2550AYTS	576-2181-ND	USB Transceiver	14-TSSOP	1.88	1.50	1.13
MIC2550YML TR	576-2662-1-ND	USB Transceiver	16-MLF	2.05	1.64	1.23
MIC2550YML TR	576-2662-2-ND	USB Transceiver	16-MLF	5125.00/5,000		
MIC2551AYML TR	576-2663-1-ND	USB Transceiver	16-MLF	1.88	1.50	1.13
MIC2551AYML TR	576-2663-2-ND	USB Transceiver	16-MLF	4690.00/5,000		
MIC2551AYML25 TR	576-2664-1-ND	USB Transceiver	16-MLF	1.88	1.50	1.13
MIC2551AYML25 TR	576-2664-2-ND	USB Transceiver	16-MLF	4690.00/5,000		
MIC2551AYTS	576-2182-ND	USB Transceiver	14-TSSOP	1.88	1.50	1.13
MIC2555-0YML TR	576-1087-1-ND	USB - OTG Transceiver	24-MLF	4.07	3.26	2.54
MIC2555-0YML TR	576-1087-2-ND	USB - OTG Transceiver	24-MLF	2308.00/1,000		
MIC2555-1YML TR	576-1088-1-ND	USB - OTG Transceiver	24-MLF	4.07	3.26	2.54
MIC2555-1YML TR	576-1088-2-ND	USB - OTG Transceiver	24-MLF	11315.00/5,000		

USB/GENERAL PURPOSE SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2003-0.5YM5 TR	576-2580-1-ND	Current Limiting Circuit Protector	SOT-23-5	1.40	1.12	.84
MIC2003-0.5YM5 TR	576-2580-2-ND	Current Limiting Circuit Protector	SOT-23-5	2151.00/3,000		
MIC2003-0.5YML TR	576-1677-1-ND	Current Limiting Circuit Protector	6-MLF	1.68	1.34	1.01
MIC2003-0.5YML TR	576-1677-2-ND	Current Limiting Circuit Protector	6-MLF	4190.00/5,000		
MIC2003-1.2YML TR	576-2581-1-ND	Current Limiting Circuit Protector	6-MLF	1.68	1.34	1.01
MIC2003-1.2YML TR	576-2581-2-ND	Current Limiting Circuit Protector	6-MLF	4190.00/5,000		
MIC2004-0.5YM5 TR	576-2582-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.40	1.12	.84
MIC2004-0.5YM5 TR	576-2582-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2151.00/3,000		
MIC2004-0.8YM5 TR	576-2583-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.40	1.12	.84
MIC2004-0.8YM5 TR	576-2583-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2151.00/3,000		
MIC2004-1.2YM5 TR	576-2584-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.40	1.12	.84
MIC2004-1.2YM5 TR	576-2584-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2151.00/3,000		
MIC2004-1.2YML TR	576-2585-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	1.68	1.34	1.01
MIC2004-1.2YML TR	576-2585-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	4190.00/5,000		
MIC2005-0.5LYM5 TR	576-3397-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.55	1.24	.93
MIC2005-0.5LYM5 TR	576-3397-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2382.00/3,000		
MIC2005-0.5YM6 TR	576-2586-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	1.55	1.24	.93
MIC2005-0.5YM6 TR	576-2586-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2382.00/3,000		
MIC2005-0.5YML TR	576-1678-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	1.83	1.46	1.10
MIC2005-0.5YML TR	576-1678-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	4565.00/5,000		
MIC2005-0.8LYM5 TR	576-3398-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.55	1.24	.93
MIC2005-0.8LYM5 TR	576-3398-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2382.00/3,000		
MIC2005-0.8YM6 TR	576-2587-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	1.55	1.24	.93
MIC2005-0.8YM6 TR	576-2587-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2382.00/3,000		
MIC2005-0.8YML TR	576-2588-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	1.83	1.46	1.10
MIC2005-0.8YML TR	576-2588-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	4565.00/5,000		
MIC2005-1.2LYM5 TR	576-3399-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.55	1.24	.93
MIC2005-1.2LYM5 TR	576-3399-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2382.00/3,000		
MIC2005-1.2YM6 TR	576-2589-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	1.55	1.24	.93
MIC2005-1.2YM6 TR	576-2589-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2382.00/3,000		
MIC2005-1.2YML TR	576-2590-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	1.83	1.46	1.10
MIC2005-1.2YML TR	576-2590-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	4565.00/5,000		
MIC2005A-1YM5 TR	576-3462-1-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-5	.92	.69	.52
MIC2005A-1YM5 TR	576-3462-2-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-5	897.00/3,000		
MIC2005A-1YM6 TR	576-3463-1-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	.92	.69	.52
MIC2005A-1YM6 TR	576-3463-2-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	897.00/3,000		
MIC2005A-2YM5 TR	576-3464-1-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-5	.92	.69	.52
MIC2005A-2YM5 TR	576-3464-2-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-5	897.00/3,000		
MIC2005A-2YM6 TR	576-3465-1-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	.92	.69	.52
MIC2005A-2YM6 TR	576-3465-2-ND	Fixed Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	897.00/3,000		
MIC2007YM6 TR	576-1460-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	1.93	1.54	1.16
MIC2007YM6 TR	576-1460-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2958.00/3,000		
MIC2007YML TR	576-1679-1-ND	Adj. Current Limit Power Dist. Switch	6-MLF	2.20	1.76	1.32
MIC2007YML TR	576-1679-2-ND	Adj. Current Limit Power Dist. Switch	6-MLF	5500.00/5,000		
MIC2008YML TR	576-2591-1-ND	Adj. Current Limit Power Dist. Switch	6-MLF	2.20	1.76	1.32
MIC2008YML TR	576-2591-2-ND	Adj. Current Limit Power Dist. Switch	6-MLF	5500.00/5,000		
MIC2008YM6 TR	576-1461-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	1.93	1.54	1.16
MIC2008YM6 TR	576-1461-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2958.00/3,000		
MIC2009A-1YM6 TR	576-3581-1-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	.90	.75	.60
MIC2009A-1YM6 TR	576-3581-2-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1170.00/3,000		
MIC2009A-2YM6 TR	576-3582-1-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	.90	.75	.60
MIC2009A-2YM6 TR	576-3582-2-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1170.00/3,000		
MIC2009YM6 TR	576-1680-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	1.80	1.44	1.08
MIC2009YM6 TR	576-1680-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2766.00/3,000		
MIC2009YML TR	576-1681-1-ND	Adj. Current Limit Power Dist. Switch	6-MLF	2.10	1.68	1.26
MIC2009YML TR	576-1681-2-ND	Adj. Current Limit Power Dist. Switch	6-MLF	5250.00/5,000		
MIC2012-1PZQS	576-2135-ND	Dual-Ch. USB Power Controller	16-QSOP	3.96	3.17	2.47
MIC2012PZM	576-2136-ND	Dual-Ch. USB Power Controller	8-SOIC	3.69	2.96	2.30
MIC2012YM	576-1682-5-ND	Dual-Ch. USB Power Controller	8-SOIC	3.69	2.96	2.30
MIC2012ZM	576-1683-5-ND	Dual-Ch. USB Power Controller	8-SOIC	3.69	2.96	2.30
MIC2013-1.2YML TR	576-1684-1-ND	Current Limiting Circuit Protector	6-MLF	1.98	1.58	1.19
MIC2013-1.2YML TR	576-1684-2-ND	Current Limiting Circuit Protector	6-MLF	4940.00/5,000		
MIC2014-0.5YM5 TR	576-1685-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.68	1.34	1.01
MIC2014-0.5YM5 TR	576-1685-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2574.00/3,000		
MIC2014-0.5YML TR	576-1686-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	1.98	1.58	1.19
MIC2014-0.5YML TR	576-1686-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	4940.00/5,000		

USB/GENERAL PURPOSE SWITCHES (Cont.)

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2014-0.8YM5 TR	576-1687-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	1.68	1.34	1.01
MIC2014-0.8YM5 TR	576-1687-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-5	2574.00/3,000		
MIC2015-0.8YM6 TR	576-1688-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	1.95	1.56	1.17
MIC2015-0.8YM6 TR	576-1688-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2994.00/3,000		
MIC2015-0.8YML TR	576-1689-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	2.23	1.78	1.34
MIC2015-0.8YML TR	576-1689-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	5565.00/5,000		
MIC2015-1.2YM6 TR	576-2592-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	1.95	1.56	1.17
MIC2015-1.2YM6 TR	576-2592-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2994.00/3,000		
MIC2016-0.5YML TR	576-2593-1-ND	Fixed Current Limit Power Dist. Switch	6-MLF	2.27	1.82	1.42
MIC2016-0.5YML TR	576-2593-2-ND	Fixed Current Limit Power Dist. Switch	6-MLF	6315.00/5,000		
MIC2016-1.2YM6 TR	576-2594-1-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	2.23	1.78	1.34
MIC2016-1.2YM6 TR	576-2594-2-ND	Fixed Current Limit Power Dist. Switch	SOT-23-6	3417.00/3,000		
MIC2017YM6 TR	576-1462-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2.25	1.80	1.35
MIC2017YM6 TR	576-1462-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	3456.00/3,000		
MIC2018YM6 TR	576-1463-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2.25	1.80	1.35
MIC2018YM6TR	576-1463-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	3456.00/3,000		
MIC2018YML TR	576-1690-1-ND	Adj. Current Limit Power Dist. Switch	6-MLF	2.30	1.84	1.43
MIC2018YML TR	576-1690-2-ND	Adj. Current Limit Power Dist. Switch	6-MLF	6375.00/5,000		
MIC2019A-1YM6 TR	576-3583-1-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1.02	.85	.68
MIC2019A-1YM6 TR	576-3583-2-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1326.00/3,000		
MIC2019A-2YM6 TR	576-3584-1-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1.02	.85	.68
MIC2019A-2YM6 TR	576-3584-2-ND	Adj. Current Limit Power Dist. Switch ***NEW!***	SOT-23-6	1326.003,000		
MIC2019YM6 TR	576-2595-1-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	2.10	1.68	1.26
MIC2019YM6 TR	576-2595-2-ND	Adj. Current Limit Power Dist. Switch	SOT-23-6	3225.00/3,000		
MIC2019YML TR	576-2596-1-ND	Adj. Current Limit Power Dist. Switch	6-MLF	2.38	1.90	1.43
MIC2019YML TR	576-2596-2-ND	Adj. Current Limit Power Dist. Switch	6-MLF	5940.00/5,000		
MIC2025-1YM	576-1057-ND	Single-Ch. Power Dist. Switch MM8®	8-SOIC	1.35	1.13	.90
MIC2025-1YMM	576-1691-5-ND	Single-Ch. Power Dist. Switch MM8®	8-MSOP	1.30	1.04	.78
MIC2025-2YM	576-1058-ND	Single-Ch. Power Dist. Switch MM8®	8-SOIC	1.35	1.13	.90
MIC2025-2YMM	576-1692-5-ND	Single-Ch. Power Dist. Switch MM8®	8-MSOP	1.30	1.04	.78
MIC2026-1YM	576-2137-ND	Dual-Channel Power Distribution Switch	8-SOIC	1.20	1.00	.80
MIC2026-1YM TR	576-1059-1-ND	Dual-Channel Power Distribution Switch	8-SOIC	1.20	1.00	.80
MIC2026-1YM TR	576-1059-2-ND	Dual-Channel Power Distribution Switch	8-SOIC	1300.00/2,500		
MIC2026-2YM	576-3364-5-ND	Dual-Channel Power Distribution Switch	8-SOIC	1.20	1.00	.80
MIC2026-2YM TR	576-1060-1-ND	Dual-Channel Power Distribution Switch	8-SOIC	1.20	1.00	.80
MIC2026-2YM TR	576-1060-2-ND	Dual-Channel Power Distribution Switch	8-SOIC	1300.00/2,500		
MIC2027-1YM	576-2138-ND	Quad USB Power Distribution Switch	16-SOIC	2.81	2.25	1.75
MIC2027-2YM	576-2139-ND	Quad USB Power Distribution Switch	16-SOIC	2.81	2.25	1.75
MIC2027-2YWM	576-2140-ND	Quad USB Power Distribution Switch	16-SOIC	2.97	2.38	1.85
MIC2040-1YMM	576-1693-5-ND	Single-Ch. Low Voltage Power Dist.	10-MSOP	2.28	1.82	1.37
MIC2040-2YMM	576-1694-5-ND	Single-Ch. Low Volt. Power Dist. Switch	10-MSOP	2.28	1.82	1.37
MIC2041-1YMM	576-2141-ND	Single-Ch. Low Volt. Power Dist. Switch	10-MSOP	2.28	1.82	1.37
MIC2042-1YM	576-1695-5-ND	Single-Ch. Low Volt. Power Dist.Switch	8-SOIC	3.51	2.81	2.19
MIC2042-1YTS	576-1696-5-ND	Single-Ch. Low Volt. Power Dist. Switch	14-TSSOP	3.71	2.97	2.31
MIC2042-2YM	576-1697-5-ND	Single-Ch. Low Volt. Power Dist. Switch	8-SOIC	3.51	2.81	2.19
MIC2042-2YTS	576-1698-5-ND	Single-Ch. Low Volt. Power Dist. Switch	14-TSSOP	3.71	2.97	2.31
MIC2043-1YM	576-2142-ND	Single-Ch. High Current, Low Voltage Power Distribution Switch	8-SOIC	3.51	2.81	2.19
MIC2043-2YM	576-1699-5-ND	Single-Ch. Low Volt. Power Dist. Switch	8-SOIC	3.51	2.81	2.19
MIC2044-1YTS	576-1700-5-ND	Single-Ch. Low Volt. Power Dist. Switch	16-TSSOP	5.36	4.29	3.34
MIC2044-2YTS	576-1701-5-ND	Single-Ch. Low Volt. Power Dist. Switch	16-TSSOP	5.36	4.29	3.34
MIC2045-1YTS	576-1702-5-ND	Single-Ch. Low Volt. Power Dist. Switch	16-TSSOP	5.47	4.38	3.41
MIC2045-2YTS	576-1703-5-ND	Single-Ch. Low Volt. Powe. Dist. Switch	16-TSSOP	5.47	4.38	3.41
MIC2072-2PZQS	576-2143-ND	Dual-Channel USB Power Controller	16-QSOP	4.28	3.42	2.66
MIC2073-1YM	576-3440-5-ND	Dual-Ch. Power Dist. Switch ***NEW!***	8-SOIC	1.35	1.08	.81
MIC2073-2YM	576-3441-5-ND	Dual-Ch. Power Dist. Switch ***NEW!***	8-SOIC	1.35	1.08	.81
MIC2074-1YM	576-3442-5-ND	Dual-Ch. Power Dist. Switch ***NEW!***	8-SOIC	1.75	1.40	1.05
MIC2074-2YM	576-3443-5-ND	Dual-Ch. Power Dist. Switch ***NEW!***	8-SOIC	1.75	1.40	1.05
MIC2075-1YM	576-1704-5-ND	Single-Ch. Power Dist. Switch MM8®	8-SOIC	1.30	1.04	.78
MIC2075-1YMM	576-1705-5-ND	Single-Ch. Power Dist. Switch MM8®	8-MSOP	1.50	1.20	.90
MIC2075-2YM	576-1706-5-ND	Single-Ch. Power Dist. Switch MM8®	8-SOIC	1.30	1.04	.78
MIC2075-2YMM	576-2144-ND	Single-Ch. Power Dist. Switch MM8®	8-MSOP	1.50	1.20	.90
MIC2076-1YM	576-2145-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1.38	1.10	.83
MIC2076-2YM	576-1061-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1.38	1.10	.83
MIC2077-1YM	576-2146-ND	Quad USB Power Distribution Switch	16-SOIC	2.81	2.25	1.75
MIC2077-2YM	576-2147-ND	Quad USB Power Distribution Switch	16-SOIC	2.81	2.25	1.75
MIC2536-1YM	576-2163-ND	Dual-Channel USB Power Dist. Switch	8-SOIC	1.80	1.44	1.08
MIC2536-1YMM	576-2164-ND	Dual-Channel USB Power Dist. Switch	8-MSOP	2.05	1.64	1.23
MIC2536-2YM	576-2165-ND	Dual-Channel USB Power Dist. Switch	8-SOIC	1.80	1.44	1.08
MIC2536-2YMM	576-2166-ND	Dual-Channel USB Power Dist. Switch	8-MSOP	2.05	1.64	1.23
MIC2537-2YM	576-2167-ND	Quad USB Power Distribution Switch	16-SOIC	2.99	2.40	1.87

EVALUATION BOARDS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KSZ8851SNL-BBE-EVAL	576-3602-ND	Board Eval for KSZ8851 ***NEW!***	—	99.00	—	—
KSZ8041NL-EVAL	576-1621-ND	Board Eval for KSZ8041NL	—	142.50	—	—
KSZ8841-PMQL-EVAL	576-1633-ND	Board Eval for KSZ8841-PMQL	—	330.00	—	—
KSZ8842-16MQL-EVAL	576-1634-ND	Board Eval for KSZ8842-16MQL	—	363.00	—	—
KSZ8842-16MVL-EVAL	576-1635-ND	Board Eval for KSZ8842-16MVL	—	363.00	—	—
KSZ8842-PMQL-EVAL	576-1636-ND	Board Eval for KSZ8842-PMQL	—	346.50	—	—
KSZ8862-10FL-EVAL	576-1638-ND	Board Eval for KSZ8862-10FL	—	495.00	—	—
KSZ8893MQL-EVAL	576-1603-ND	Board Eval Experiment KSZ8893MQL	—	525.00	—	—
KSZ8995MA-EVAL	576-1607-ND	Board Eval Experiment KSZ8995MA	—	397.50	—	—
KSZ8995XA-EVAL	576-1642-ND	Board Eval for KSZ8995XA	—	397.50	—	—
KSZ8999-EVAL	576-1644-ND	Board Eval for KSZ8999	—	397.50	—	—
MIC38300HYHL EV	576-2961-ND	Evaluation Board for MIC38300HYHL	—	30.00	—	—
SY87729LHI-EVAL	576-1404-ND	Board Eval N SY87729 Experiment	—	232.50	—	—
SY87739LHI-EVAL	576-1406-ND	Board Eval N SY87739 Experiment	—	232.50	—	—

ON Semiconductor™ ANALOG SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
M74VHC1GT66DTT1GOSCT-ND	Single Supply Analog Switch*	SOT-23-5	.53	.31	.25
M74VHC1GT66DTT1GOSTR-ND	Single Supply Analog Switch*	SOT-23-5	267.00/3,000		
MC74HC4051ADGOS-ND	Single Analog Mux/Demux*	16-SOIC	.43	.32	.28
MC74HC4051ADR2GOSCT-ND	Single Analog Mux/Demux*	16-SOIC	.50	.35	.30
MC74HC4051ADR2GOSTR-ND	Single Analog Mux/Demux*	16-SOIC	352.50/2,500		

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* ***RoHS Compliant***

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

ON Semiconductor™ Digi-Reel® (Cont.) ANALOG SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC74HC4051ADWGOS-ND	Single Analog Mux/Demux*	16-SOIC	.67	.52	.46
MC74HC4051ANGOS-ND	Single Analog Mux/Demux*	16-Dip	.72	.56	.49
MC74HC4052ADGOS-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.43	.32	.28
MC74HC4052ADWGOS-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.67	.52	.46
MC74HC4052ADWR2GOSCT-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.74	.58	.51
MC74HC4052ADWR2GOSTR-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	268.00/1,000		
MC74HC4053ADGOS-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.68	.50	.43
MC74HC4053ADWGOS-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.67	.52	.46
MC74HC4053ADWR2GOSCT-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.74	.58	.51
MC74HC4053ADWR2GOSTR-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	268.00/1,000		
MC74HC4053ANGOS-ND	Triple 2-Channel Analog Mux/Demux*	16-Dip	.72	.56	.49
MC74HC4066ADGOS-ND	Quad Analog Switch/Mux/Demux*	14-SOIC	.43	.32	.28
MC74LVX4053DGOS-ND	Analog Mux/Demux*	16-SOIC	.75	.58	.51
MC74VHC1G66DTT1GOSCT-ND	Single Supply Analog Switch*	SOT-23-5	.61	.35	.27
MC74VHC1G66DTT1GOSTR-ND	Single Supply Analog Switch*	SOT-23-5	261.00/3,000		
MC14051BDGOS-ND	SP8T Analog Mux/Demux*	16-SOIC	.59	.44	.38
MC14051BDTR2GOSCT-ND	SP8T Analog Mux/Demux*	16-TSSOP	.75	.53	.46
MC14051BDTR2GOSTR-ND	SP8T Analog Mux/Demux*	16-TSSOP	530.00/2,500		
MC14052BCPGOS-ND	DP4T Analog Mux/Demux*	16-Dip	.82	.64	.56
MC14053BDGOS-ND	Triple SPDT Analog Mux/Demux*	16-SOIC	.59	.44	.38
NLAS4051DTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	.80	.62	.55
NLAS4501DTT1GOSCT-ND	Single SPST Analog Switch*	SOT-23-5	.54	.36	.30
NLAS4501DTT1GOSTR-ND	Single SPST Analog Switch*	SOT-23-5	369.00/3,000		
NLAS4599DFT2GOSCT-ND	Low Voltage Single Supply SPDT Analog Switch*	SOT-363	.54	.36	.30
NLAS4599DFT2GOSTR-ND	Low Voltage Single Supply SPDT Analog Switch*	SOT-363	369.00/3,000		
NLAS4684MNR2GOSCT-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	10-QFN	.99	.79	.71
NLAS4684MNR2GOSTR-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	10-QFN	1095.00/3,000		
NLAS44599DTR2GOSCT-ND	Dual DPDT Analog Switch*	16-TSSOP	1.75	1.35	1.23
NLAS44599DTR2GOSTR-ND	Dual DPDT Analog Switch*	16-TSSOP	1687.50/2,500		
NLASB3157DFT2GOSCT-ND	2:1 Multiplexer*	SOT-363	.45	.30	.25
NLASB3157DFT2GOSTR-ND	2:1 Multiplexer*	SOT-363	306.00/3,000		
NLAST4599DFT2GOSCT-ND	Low Voltage Single Supply SPDT Analog Switch*	SOT-363	.54	.36	.30
NLAST4599DFT2GOSTR-ND	Low Voltage Single Supply SPDT Analog Switch*	SOT-363	369.00/3,000		

ON Semiconductor™ Digi-Reel® CLOCK *RoHS Compliant*

On Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FS6128-04G-XTD	766-1021-ND	PLL Clock Generator with VCXO	8-SOIC	5.52	4.44	4.04
FS6128-07-XTD	766-1022-ND	PLL Clock Generator with VCXO	8-SOIC	5.96	4.80	4.37
FS6131-01G-XTD	766-1023-ND	PLL Clock Generator with VCXO	16-SOIC	6.01	4.93	4.45
FS6370-01G-XTD	766-1025-ND	EEPROM Prog. 3-PLL Clock Generator	16-SOIC	8.50	6.97	6.29
FS6377-01G-XTD	766-1026-ND	Prog. 3-PLL Clock Generator	16-SOIC	5.68	4.57	4.17
FS6377-01IG-XTD	766-1027-ND	Prog. 3-PLL Clock Generator	16-SOIC	11.07	9.31	8.56
FS7140-01G-XTD	766-1028-ND	Prog. 3-PLL Clock Generator	16-SOIC	7.18	5.89	5.31
FS7140-02G-XTD	766-1029-ND	Prog. 3-PLL Clock Generator	16-SSOP	7.50	6.15	5.55
FS7145-01-XTD	766-1030-ND	Prog. 3-PLL Clock Generator	16-SOIC	6.83	5.60	5.06
MC74HC390ANG	MC74HC390ANGOS-ND	Dual 4-Stage Binary Ripple Counter	16-Dip	.67	.52	.46
MC74HC4040ADG	MC74HC4040ADGOS-ND	12-Stage Binary Ripple Counter	16-SOIC	.65	.48	.41
MC74HC4046ADG	MC74HC4046ADGOS-ND	Phase-Locked Loop	16-SOIC	.58	.49	.44
MC74HC4046ADR2G	MC74HC4046ADR2GOSCT-ND	Phase-Locked Loop	16-SOIC	.70	.53	.46
MC74HC4046ADR2G	MC74HC4046ADR2GOSTR-ND	Phase-Locked Loop	16-SOIC	521.25/2,500		
MC74HC4046ANG	MC74HC4046ANGOS-ND	Phase-Locked Loop	16-Dip	.62	.56	.49
MC14046BDWG	MC14046BDWGOS-ND	Phase Locked Loop	16-SOIC	.84	.66	.58
MCK12140DG	MCK12140DGOS-ND	Phase-Frequency Detector	8-SOIC	11.00	9.25	8.50
NB3L553DG	NB3L553DGOS-ND	1:4 Clock Fanout Buffer	8-SOIC	2.02	1.63	1.47
NB3N502DG	NB3N502DGOS-ND	14 MHz to 190 MHz PLL Clock Multiplier	8-SOIC	3.50	2.82	2.57
NB3N551DG	NB3N551DGOS-ND	1:4 Clock Fanout Buffer	8-SOIC	1.86	1.50	1.35
NB3N2304NZDTG	NB3N2304NZDTGOS-ND	1:4 Clock Fanout Buffer	8-TSSOP	2.02	1.63	1.47
NB4N527SMNG	NB4N527SMNGOS-ND	AnyLevel to LVDS Receiver/Driver/ Buffer/Translator	16-QFN	12.13	9.95	8.98
NB6L11DG	NB6L11DGOS-ND	1:2 Clock or Data Fanout Buffer/ Translator	8-SOIC	12.38	10.15	9.16
NB6L11DTG	NB6L11DTGOS-ND	1:2 Clock or Data Fanout Buffer/ Translator	8-TSSOP	12.38	10.15	9.16
NB6L11SMNG	NB6L11SMNGOS-ND	1:2 AnyLevel to LVDS Fanout Buffer/Translator	16-QFN	8.75	7.18	6.48
NB6L14MNG	NB6L14MNGOS-ND	3.0 GHz Differential 1:4 LVPECL Fanout Buffer	16-QFN	11.99	10.09	9.27
NB6L16DTG	NB6L16DTGOS-ND	Clock or Data Receiver/Driver/ Translator Buffer	8-TSSOP	12.38	10.15	9.16
NB6L239MNG	NB6L239MNGOS-ND	High Speed Clock Divider	16-QFN	12.03	10.12	9.30
NB6N11SMNG	NB6N11SMNGOS-ND	1:2 AnyLevel to LVDS Fanout Buffer/Translator	16-QFN	8.75	7.18	6.48
NB6N14SMNG	NB6N14SMNGOS-ND	1:4 AnyLevel to Diff. LVDS Fanout Buffer/Translator	16-QFN	10.00	8.20	7.40
NB6N239SMNG	NB6N239SMNGOS-ND	High Speed Clock Divider	16-QFN	12.13	9.95	8.98
NB7L1008MMNG	NB7L1008MMNGOS-ND	1:8 Clock/Data Fanout Buffer ***NEW!***	32-QFN	12.10	10.18	9.35

ON Semiconductor™ Digi-Reel® DATA TRANSMITTER *RoHS Compliant*

On Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A5191HRTLG-XTD	766-1011-ND	HART™ Modem	32-LQFP	20.06	16.88	15.51
A5191HRTPG-XTD	766-1012-ND	HART™ Modem	28-PLCC	20.06	16.88	15.51
AMIS30600LINI1G	766-1013-ND	Lin Transceiver	8-SOIC	1.83	1.48	1.33
AMIS30600LINI1RG	766-1000-1-ND	Lin Transceiver	8-SOIC	2.07	1.60	1.45
AMIS30600LINI1RG	766-1000-2-ND	Lin Transceiver	8-SOIC	2391.00/3,000		
AMIS30660CANH2G	766-1014-ND	High Speed CAN Transceiver	8-SOIC	2.11	1.70	1.53
AMIS30660CANH2RG	766-1003-1-ND	High Speed CAN Transceiver	8-SOIC	2.38	1.84	1.67
AMIS30660CANH2RG	766-1003-2-ND	High Speed CAN Transceiver	8-SOIC	2754.00/3,000		
AMIS30663CANG26	766-1015-ND	High Speed CAN Transceiver	8-SOIC	2.11	1.70	1.53
AMIS39101PNPB4RG	766-1004-1-ND	Octal High Side Driver w/Protection	28-PSOP	8.82	7.33	6.66
AMIS39101PNPB4RG	766-1004-2-ND	Octal High Side Driver w/Protection	28-PSOP	6744.00/1,500		
AMIS41682CANM1RG	766-1005-1-ND	Fault Tolerant CAN Transceiver	14-SOIC	3.90	3.19	2.86
AMIS41682CANM1RG	766-1005-2-ND	Fault Tolerant CAN Transceiver	14-SOIC	5187.00/3,000		
AMIS41682CANM1G	766-1016-ND	Fault Tolerant CAN Transceiver	14-SOIC	3.64	2.93	2.67
AMIS41683CANN1G	766-1017-ND	Fault Tolerant CAN Transceiver	14-SOIC	3.64	2.93	2.67
AMIS42665TJAA1RG	766-1006-1-ND	High Speed LP CAN Transceiver	8-SOIC	2.73	2.11	1.92
AMIS42665TJAA1RG	766-1006-2-ND	High Speed LP CAN Transceiver	8-SOIC	3159.00/3,000		
AMIS42665TJAA1G	766-1018-ND	High Speed LP CAN Transceiver	8-SOIC	2.42	1.95	1.76
AMIS42671ICAB1RG	766-1007-1-ND	HS Autobaud CAN Transceiver	8-SOIC	2.59	2.00	1.82

ON Semiconductor™ Digi-Reel® (Cont.) DATA TRANSMITTER *RoHS Compliant*

On Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMIS42671ICAB1RG	766-1007-2-ND	HS Autobaud CAN Transceiver	8-SOIC	2997.00/3,000		
AMIS42673ICAG1RG	766-1008-1-ND	HS Digital Interface CAN Transceiver	8-SOIC	2.38	1.84	1.67
AMIS42673ICAG1RG	766-1008-2-ND	HS Digital Interface CAN Transceiver	8-SOIC	2754.00/3,000		
AMIS42675ICAA1RG	766-1009-1-ND	HS Low Power CAN Transceiver	8-SOIC	2.67	2.06	1.87
AMIS42675ICAA1RG	766-1009-2-ND	HS Low Power CAN Transceiver	8-SOIC	3090.00/3,000		
AMIS42770ICAW1RG	766-1010-1-ND	Dual High Speed CAN Transceiver	20-SOIC	10.20	8.47	7.70
AMIS42770ICAW1RG	766-1010-2-ND	Dual High Speed CAN Transceiver	20-SOIC	7797.00/1,500		
AMIS-49200-XTD	766-1019-ND	Fieldbus MAU	44-LQFP	27.56	23.43	21.71
AMIS-49250-XTD	AMIS-49250-XTDOS-ND	Fieldbus MAU	44-NQFP	27.56	23.43	21.71
AMIS-52150-XTD	766-1020-ND	Low Power Transceiver	20-SSOP	9.64	7.91	7.13

ON Semiconductor™ Digi-Reel® DC-DC POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS5124XDR8GOSCT-ND	HP, IC Mode PWM Controller*	8-SOIC	3.51	2.87	2.58
CS5124XDR8GOSTR-ND	HP, IC Mode PWM Controller*	8-SOIC	3890.00/2,500		
CS5171EDR8GOSCT-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2.17	1.68	1.53
CS5171EDR8GOSTR-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2125.00/2,500		
CS5171GDR8GOSCT-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2.45	1.89	1.72
CS5171GDR8GOSTR-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2362.50/2,500		
CS5173EDR8GOSCT-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2.52	1.95	1.77
CS5173EDR8GOSTR-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2430.00/2,500		
CS5174GDR8GOSCT-ND	1.5A, 560kHz Negative Boost Regulator*	8-SOIC	2.11	1.63	1.48
CS51413ED8GOS-ND	1.5A, 520kHz Sync. Buck Regulator*	8-SOIC	2.29	1.85	1.67
CS51414EDR8GOSCT-ND	1.5A, 520kHz Low Voltage Buck Regulator*	8-SOIC	2.59	2.00	1.82
CS51414EDR8GOSTR-ND	1.5A, 520kHz Low Voltage Buck Regulator*	8-SOIC	2497.50/2,500		
LM317BD2TR4GOSCT-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	1.18	.94	.84
LM317BD2TR4GOSTR-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	412.00/800		
LM317BTGOS-ND	1.5A, Adj. Out, Positive Voltage Regulator*	TO-220AB	.69	.54	.47
LM317D2TR4GOSCT-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	1.04	.81	.71
LM317D2TR4GOSTR-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	330.40/800		
LM317LBDGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.65	.48	.41
LM317LBZGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	TO-92	.65	.48	.41
LM317LDGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.57	.38	.31
LM317LDR2GOSCT-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.63	.42	.34
LM317LDR2GOSTR-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	357.50/2,500		
LM317LZGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	TO-92	.50	.37	.32
LM317MBDTGOS-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	.89	.72	.63
LM317MDTRKGOSCT-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	.71	.55	.49
LM317MDTRKGOSTR-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	585.00/2,500		
LM317MTGOS-ND	500mA, Adj. Out, Positive Voltage Regulator*	TO-220AB	.70	.54	.47
LM317TGOS-ND	1.5A, Adj. Output, Positive Voltage Regulator*	TO-220AB	.68	.50	.43
LM337BD2TR4GOSCT-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	D2-PAK	1.65	1.31	1.18
LM337BD2TR4GOSTR-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	D2-PAK	577.60/800		
LM337BTGOS-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	TO-220AB	1.00	.80	.70
LM337TGOS-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	TO-220AB	.88	.69	.60
LM2574N-5GOS-ND	0.5A, 5V, Step-Down Switching Regulator*	8-Dip	1.78	1.44	1.30
LM2575T-5GOS-ND	1.0A, 5V, Step-Down Switching Regulator*	TO-220-5	2.55	2.06	1.85
LM2575T-ADJGOS-ND	1.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.55	2.06	1.85
LM2576T-ADJGOS-ND	3.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.50	2.02	1.82
MC78L05ABDGOS-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.44	.33	.28
MC78L05ABDR2GOSCT-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.61	.41	.33
MC78L05ABDR2GOSTR-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	347.50/2,500		
MC78L05ABPGOS-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.44	.33	.28
MC78L05ABPRAGOSCT-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.51	.36	.31
MC78L05ABPRAGOSTR-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	288.00/2,000		
MC78L05ACDGOS-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.48	.33	.27
MC78L05ACDR2GOSCT-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.59	.39	.32
MC78L05ACDR2GOSTR-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	332.50/2,500		
MC78L05ACPGOS-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.48	.33	.27
MC78L05ACPRAGOSCT-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.59	.39	.32
MC78L05ACPRAGOSTR-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	266.00/2,000		
MC78L05ACPREGOSTR-ND	100mA, 5V Positive Voltage Regulator*	TO-92	246.00/2,000		
MC78L05ACPRMGOSCT-ND	100mA, 5V Positive Voltage Regulator*	TO-92	.59	.39	.32
MC78L05ACPRMGOSTB-ND	100mA, 5V Positive Voltage Regulator*	TO-92	266.57/2,000		
MC78L05ACPRPGOSCT-ND	100mA, 5V Positive Voltage Regulator*	TO-92	.54	.36	.30
MC78L05ACPRPGOSTB-ND	100mA, 5V Positive Voltage Regulator*	TO-92	245.92/2,000		
MC78L08ABPGOS-ND	100mA, 8V Positive Voltage Regulator*	TO-92	.44	.33	.28
MC78L08ACDGOS-ND	100mA, 8V Positive Voltage Regulator*	8-SOIC	.53	.35	.29
MC78L08ACDR2GOSCT-ND	100mA, 8V Positive Voltage Regulator*	8-SOIC	.59	.39	.32
MC78L08ACDR2GOSTR-ND	100mA, 8V Positive Voltage Regulator*	8-SOIC	332.50/2,500		
MC78L08ACPGOS-ND	100mA, 8V, Positive Voltage Regulator*	TO-92	.48	.33	.27
MC78L09ACPGOS-ND	100mA, 9V Positive Voltage Regulator*	TO-92	.53	.35	.29
MC78L12ABDGOS-ND	100mA, 12V Positive Voltage Regulator*	8-SOIC	.44	.33	.28
MC78L12ABDR2GOSCT-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	.51	.36	.31
MC78L12ABDR2GOSTR-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	360.00/2,500		
MC78L12ABPGOS-ND	100mA, 12V, Positive Voltage Regulator*	TO-92	.44	.33	.28
MC78L12ACDGOS-ND	100mA, 12V Positive Voltage Regulator*	8-SOIC	.53	.35	.29
MC78L12ACDR2GOSCT-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	.54	.36	.30
MC78L12ACDR2GOSTR-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	307.50/2,500		
MC78L12ACPGOS-ND	100mA, 12V, Positive Voltage Regulator*	TO-92	.53	.35	.29
MC78L15ABDGOS-ND	100mA, 15V Positive Voltage Regulator*	8-SOIC	.44	.33	.28
MC78L15ACDGOS-ND	100mA, 15V Positive Voltage Regulator*	8-SOIC	.53	.35	.29
MC78L15ACPGOS-ND	100mA, 15V, Positive Voltage Regulator*	TO-92	.53	.35	.29
MC78L18ACPGOSCT-ND	100mA, 18V Positive Voltage Regulator*	TO-92	.42	.30	.25
MC78L24ACPGOS-ND	100mA, 24V Positive Voltage Regulator*	TO-92	.54	.36	.30
MC78LC30HT1GOSCT-ND	3V Micropower Voltage Regulator*	SOT-89	.87	.68	.60
MC78LC30HT1GOSTR-ND	3V Micropower Voltage Regulator*	SOT-89	318.00/1,000		
MC78LC30NTRGOSCT-ND	3V Micropower Voltage Regulator*	TSOT-23-5	1.01	.79	.70
MC78LC30NTRGOSTR-ND	3V Micropower Voltage Regulator*	TSOT-23-5	1002.00/3,000		
MC78LC33HT1GOSCT-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-89	.87	.68	.60
MC78LC33HT1GOSTR-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-89	318.00/1,000		
MC78LC33NTRGOSCT-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-23-5	.98	.76	.68
MC78LC33NTRGOSTR-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-23-5	972.00/3,000		
MC78LC50HT1GOSCT-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-89	.87	.68	.60
MC78LC50HT1GOSTR-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-89	318.00/1,000		
MC78LC50NTRGOSCT-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-23-5	1.01	.79	.70
MC78LC50NTRGOSTR-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-23-5	1002.00/3,000		
MC78M05ABDTGOS-ND	500mA, 5V Positive Voltage Regulator*	DPAK	.77	.60	.52
MC78M05ACDTGOS-ND	500mA, 5V Positive Voltage Regulator*	DPAK	.75	.58	.51
MC78M05ACDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.82	.64	.56
MC78M05ACDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	675.00/2,500		
MC78M05BDTGOS-ND	500mA, 5V Positive Voltage Regulator*	DPAK	.75	.58	.51

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ON Semiconductor™ (Cont.) DC-DC POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC78M05BDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.65	.46	.39
MC78M05BDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	457.50/2,500		
MC78M05BTGOS-ND	500mA, 5V Positive Voltage Regulator*	TO-220	.62	.49	.42
MC78M05CDTGOS-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.53	.40	.34
MC78M05CDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.61	.44	.37
MC78M05CDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	432.50/2,500		
MC78M05CTGOS-ND	500mA, 5V, Positive Voltage Regulator*	TO-220AB	.55	.41	.35
MC78M06CTGOS-ND	500mA, 6V Positive Voltage Regulator*	TO-220	.64	.47	.41
MC78M08BDTGOS-ND	500mA, 8V Positive Voltage Regulator*	DPAK	.62	.49	.42
MC78M08CDTGOS-ND	500mA, 8V Positive Voltage Regulator*	DPAK	.53	.40	.34
MC78M08CDTRKGOSCT-ND	500mA, 8V Positive Voltage Regulator*	DPAK	.61	.44	.37
MC78M08CDTRKGOSTR-ND	500mA, 8V Positive Voltage Regulator*	DPAK	432.50/2,500		
MC78M08CTGOS-ND	500mA, 8V Positive Voltage Regulator*	TO-220	.64	.47	.41
MC78M12ABDTGOS-ND	500mA, 12V Positive Voltage Regulator*	DPAK	.77	.60	.52
MC78M12BDTGOS-ND	500mA, 12V Positive Voltage Regulator*	DPAK	.62	.49	.42
MC78M12BTGOS-ND	500mA, 12V Positive Voltage Regulator*	TO-220	.62	.49	.42
MC78M12CDTGOS-ND	500mA, 12V Positive Voltage Regulator*	DPAK	.53	.40	.34
MC78M12CDTRKGOSCT-ND	500mA, 12V, Positive Voltage Regulator*	DPAK	.61	.44	.37
MC78M12CDTRKGOSTR-ND	500mA, 12V, Positive Voltage Regulator*	DPAK	432.50/2,500		
MC78M12CTGOS-ND	500mA, 12V, Positive Voltage Regulator*	TO-220AB	.56	.42	.36
MC78M15BDTGOS-ND	500mA, 15V Positive Voltage Regulator*	DPAK	.62	.49	.42
MC78M15BTGOS-ND	500mA, 15V Positive Voltage Regulator*	TO-220	.62	.49	.42
MC78M15CDTGOS-ND	500mA, 15V Positive Voltage Regulator*	DPAK	.53	.40	.34
MC78M15CDTRKGOSCT-ND	500mA, 15V, Positive Voltage Regulator*	DPAK	.61	.44	.37
MC78M15CDTRKGOSTR-ND	500mA, 15V, Positive Voltage Regulator*	DPAK	432.50/2,500		
MC78M15CTGOS-ND	500mA, 15V, Positive Voltage Regulator*	TO-220AB	.64	.47	.41
MC78M24CTGOS-ND	500mA, 24V Positive Voltage Regulator*	TO-220	.64	.47	.41
MC79L05ABDGOS-ND	100mA, -5V Negative Voltage Regulator*	8-SOIC	.49	.37	.31
MC79L05ABPGOS-ND	100mA, 5V, Negative Voltage Regulator*	TO-92	.49	.37	.31
MC79L05ACDGOS-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	.53	.35	.29
MC79L05ACDR2GOSCT-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	.59	.39	.32
MC79L05ACDR2GOSTR-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	332.50/2,500		
MC79L05ACPGOS-ND	100mA, 5V, Negative Voltage Regulator*	TO-92	.53	.35	.29
MC79L05ACPRAGOSCT-ND	100mA, -5V Negative Voltage Regulator*	TO-92	.59	.39	.32
MC79L05ACPRAGOSTR-ND	100mA, -5V Negative Voltage Regulator*	TO-92	266.00/2,000		
MC79L12ACDGOS-ND	100mA, -12V Negative Voltage Regulator*	8-SOIC	.53	.35	.29
MC79L12ACDR2GOSCT-ND	100mA, -12V Negative Voltage Regulator*	8-SOIC	.59	.39	.32
MC79L12ACDR2GOSTR-ND	100mA, -12V Negative Voltage Regulator*	8-SOIC	332.50/2,500		
MC79L12ACPGOS-ND	100mA, 12V, Negative Voltage Regulator*	TO-92	.53	.35	.29
MC79L15ACDGOS-ND	100mA, -15V Negative Voltage Regulator*	8-SOIC	.53	.35	.29
MC79L15ACDR2GOSCT-ND	100mA, -15V Negative Voltage Regulator*	8-SOIC	.54	.36	.30
MC79L15ACDR2GOSTR-ND	100mA, -15V Negative Voltage Regulator*	8-SOIC	307.50/2,500		
MC79L15ACPGOS-ND	100mA, 15V, Negative Voltage Regulator*	TO-92	.53	.35	.29
MC79M05BDTGOS-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	.75	.58	.51
MC79M05CDTRKGOSCT-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	.72	.51	.44
MC79M05CDTRKGOSTR-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	505.00/2,500		
MC79M05CTGOS-ND	500mA, -5V Negative Voltage Regulator*	TO-220	.64	.47	.41
MC79M12CDTRKGOSCT-ND	500mA, 12V, Negative Voltage Regulator*	DPAK	.79	.55	.48
MC79M12CDTRKGOSTR-ND	500mA, 12V, Negative Voltage Regulator*	DPAK	552.50/2,500		
MC79M12CTGOS-ND	500mA, -12V Negative Voltage Regulator*	TO-220	.64	.47	.41
MC79M15CDTGOS-ND	500mA, -15V Negative Voltage Regulator*	DPAK	.68	.50	.43
MC79M15CDTRKGOSCT-ND	500mA, 15V, Negative Voltage Regulator*	DPAK	.79	.55	.48
MC79M15CDTRKGOSTR-ND	500mA, 15V, Negative Voltage Regulator*	DPAK	552.50/2,500		
MC79M15CTGOS-ND	500mA, -15V Negative Voltage Regulator*	TO-220	.66	.49	.42
MC7805ABD2TGOS-ND	1A, 5V Positive Voltage Regulator*	D2-PAK	.96	.77	.67
MC7805ABTGOS-ND	1A, 5V Positive Voltage Regulator*	TO-220	.79	.62	.54
MC7805ACD2TGOS-ND	1A, 5V Positive Voltage Regulator*	D2-PAK	.94	.74	.64
MC7805ACD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	D2-PAK	1.04	.81	.71
MC7805ACD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	D2-PAK	330.40/800		
MC7805ACTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220AB	.62	.46	.40
MC7805BD2TGOS-ND	1A, 5V Positive Voltage Regulator*	D2-PAK	.99	.77	.68
MC7805BD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	DPAK	1.09	.85	.75
MC7805BD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	DPAK	348.00/800		
MC7805BDTGOS-ND	1A, 5V Positive Voltage Regulator*	DPAK	.62	.49	.42
MC7805BDTRKGOSCT-ND	1A, 5V, Positive Voltage Regulator*	DPAK	.68	.53	.47
MC7805BDTRKGOSTR-ND	1A, 5V, Positive Voltage Regulator*	DPAK	562.50/2,500		
MC7805BTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220AB	.62	.49	.42
MC7805CD2TGOS-ND	1A, 5V, Positive Voltage Regulator*	D2-PAK	.77	.60	.52
MC7805CD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	D2-PAK	.85	.66	.58
MC7805CD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	D2-PAK	269.60/800		
MC7805CDTGOS-ND	1A, 5V Positive Voltage Regulator*	DPAK	.67	.52	.46
MC7805CDTRKGOSCT-ND	1A, 5V Positive Voltage Regulator*	DPAK	.74	.58	.51
MC7805CDTRKGOSTR-ND	1A, 5V Positive Voltage Regulator*	DPAK	607.50/2,500		
MC7805CTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220AB	.68	.50	.43
MC7806ACTGOS-ND	1A, 6V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7806CTGOS-ND	1A, 6V Positive Voltage Regulator*	TO-220	.68	.50	.43
MC7808ACTGOS-ND	1A, 8V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7808BTGOS-ND	1A, 8V Positive Voltage Regulator*	TO-220	.62	.49	.42
MC7808CD2TGOS-ND	1A, 8V Positive Voltage Regulator*	D2-PAK	.84	.66	.58
MC7808CTGOS-ND	1A, 8V, Positive Voltage Regulator*	TO-220AB	.68	.50	.43
MC7809CTGOS-ND	1A, 9V, Positive Voltage Regulator*	TO-220AB	.68	.50	.43
MC7812ACD2TGOS-ND	1A, 12V Positive Voltage Regulator*	D2-PAK	.94	.74	.64
MC7812ACTGOS-ND	1A, 12V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7812BDTRKGOSCT-ND	1A, 12V Positive Voltage Regulator*	DPAK	.79	.62	.55
MC7812BDTRKGOSTR-ND	1A, 12V Positive Voltage Regulator*	DPAK	652.50/2,500		
MC7812BTGOS-ND	1A, 12V, Positive Voltage Regulator*	TO-220AB	.64	.50	.44
MC7812CD2TGOS-ND	1A, 12V Positive Voltage Regulator*	D2-PAK	.84	.66	.58
MC7812CD2TR4GOSCT-ND	1A, 12V, Positive Voltage Regulator*	D2-PAK	.93	.72	.64
MC7812CD2TR4GOSTR-ND	1A, 12V, Positive Voltage Regulator*	D2-PAK	295.20/800		
MC7812CTGOS-ND	1A, 12V, Positive Voltage Regulator*	TO-220AB	.53	.40	.34
MC7815ACD2TGOS-ND	1A, 15V Positive Voltage Regulator*	D2-PAK	.94	.74	.64
MC7815ACTGOS-ND	1A, 15V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7815BDTGOS-ND	1A, 15V Positive Voltage Regulator*	DPAK	.72	.56	.49
MC7815BTGOS-ND	1A, 15V, Positive Voltage Regulator*	TO-220AB	.64	.50	.44
MC7815CD2TGOS-ND	1A, 15V Positive Voltage Regulator*	D2-PAK	.84	.66	.58
MC7815CD2TR4GOSCT-ND	1A, 15V, Positive Voltage Regulator*	D2-PAK	.93	.72	.64
MC7815CD2TR4GOSTR-ND	1A, 15V, Positive Voltage Regulator*	D2-PAK	295.20/800		
MC7815CTGOS-ND	1A, 15V, Positive Voltage Regulator*	TO-220AB	.56	.42	.36
MC7818BTGOS-ND	1A, 18V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7818CTGOS-ND	1A, 18V Positive Voltage Regulator*	TO-220	.58	.43	.37
MC7824ACTGOS-ND	1A, 24V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7824BD2TGOS-ND	1A, 24V Positive Voltage Regulator*	D2-PAK	.99	.77	.68
MC7824BTGOS-ND	1A, 24V Positive Voltage Regulator*	TO-220	.64	.50	.44
MC7824CTGOS-ND	1A, 24V, Positive Voltage Regulator*	TO-220AB	.56	.42	.36

ON Semiconductor™ (Cont.) DC-DC POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC7905.2CTGOS-ND	1A, -5.2V, Negative Voltage Regulator*	TO-220	.92	.74	.65
MC7905ACD2TGOS-ND	1A, -5V, Negative Voltage Regulator*	D2-PAK	.94	.74	.64
MC7905ACTGOS-ND	1A, 5V, Negative Voltage Regulator*	TO-220AB	.64	.50	.44
MC7905BD2TGOS-ND	1A, -5V, Negative Voltage Regulator*	D2-PAK	.99	.77	.68
MC7905BTGOS-ND	1A, -5V, Negative Voltage Regulator*	TO-220	.64	.50	.44
MC7905CD2TGOS-ND	1A, -5V, Negative Voltage Regulator*	D2-PAK	.84	.66	.58
MC7905CTGOS-ND	1A, 5V, Negative Voltage Regulator*	TO-220AB	.64	.47	.41
MC7906CTGOS-ND	1A, -6V, Negative Voltage Regulator*	TO-220	.64	.47	.41
MC7908CD2TGOS-ND	1A, -8V, Negative Voltage Regulator*	D2-PAK	.84	.66	.58
MC7908CTGOS-ND	1A, -8V, Negative Voltage Regulator*	TO-220	.64	.47	.41
MC7912ACTGOS-ND	1A, -12V, Negative Voltage Regulator*	TO-220	.64	.50	.44
MC7912BTGOS-ND	1A, -12V, Negative Voltage Regulator*	TO-220	.64	.50	.44
MC7912CTGOS-ND	1A, 12V, Negative Voltage Regulator*	TO-220AB	.64	.47	.41
MC7915ACTGOS-ND	1A, -15V, Negative Voltage Regulator*	TO-220	.64	.50	.44
MC7915BTGOS-ND	1A, -15V, Negative Voltage Regulator*	TO-220	.64	.50	.44
MC7915CTGOS-ND	1A, 15V, Negative Voltage Regulator*	TO-220	.64	.47	.41
MC7918CTGOS-ND	1A, -18V, Negative Voltage Regulator*	TO-220	.64	.47	.41
MC7924CTGOS-ND	1A, -24V, Negative Voltage Regulator*	TO-220	.64	.47	.41
MC33063ADGOS-ND	1.5A, Step Up/Down/Inv. Switching Regulator*	8-SOIC	.99	.77	.68
MC33063ADR2GOSCT-ND	1.5A DC-DC Inverting Switching Regulator*	8-SOIC	1.09	.85	.75
MC33063ADR2GOSTR-ND	1.5A DC-DC Inverting Switching Regulator*	8-SOIC	900.00/2,500		
MC33063AP1GOS-ND	1.5A DC-DC Inverting Switching Regulator*	8-Dip	.99	.77	.68
MC33167TGOS-ND	5A, Step-Up/Down/Inverting Switching Regulator*	TO-220-5	4.03	3.24	2.96
MC33269D-3.3GOS-ND	800mA, 3.3V, LDO Voltage Regulator*	8-SOIC	.97	.76	.66
MC33269DT-3.3GOS-ND	800mA, 3.3V, LDO Voltage Regulator*	DPAK	.97	.76	.66
MC33269DT-5.0GOS-ND	800mA, 5V, LDO Voltage Regulator*	DPAK	.97	.76	.66
MC33269DTGOS-ND	800mA, Adj., LDO Voltage Regulator*	DPAK	.97	.76	.66
MC33269DTRKGOSCT-ND	800mA, Adj., LDO Voltage Regulator*	DPAK	1.07	.83	.73
MC33269DTRKGOSTR-ND	800mA, Adj., LDO Voltage Regulator*	DPAK	877.50/2,500		
MC33269T-3.3GOS-ND	800mA, 3.3V, LDO Voltage Regulator*	TO-220	1.09	.87	.77
MC33269TGOS-ND	800mA, Adj., LDO Voltage Regulator*	TO-220	1.09	.87	.77
MC34063ADGOS-ND	1.5A Step-Up/Down/Inverting Switching Regulator*	8-SOIC	.84	.65	.57
MC34063ADR2GOSCT-ND	1.5A Step-Up/Down/Inverting Switching Regulator*	8-SOIC	.92	.72	.63
MC34063ADR2GOSTR-ND	1.5A Step-Up/Down/Inverting Switching Regulator*	8-SOIC	757.50/2,500		
MC34063AP1GOS-ND	1.5A Step-Up/Down/Inverting Switching Regulator*	8-Dip	.84	.65	.57
MC34163PGOS-ND	3.4A Step-Up/Down/Inv. Switching Regulator*	16-Dip	3.36	2.70	2.46
MC34163POS-ND	3.4A Step-Up/Down/Inverting Switching Regulator	16-Dip	2.75	2.21	2.02
MC34166TGOS-ND	3A Step-Up/Down/Inv. Switching Regulator*	TO-220-5	3.08	2.49	2.24
MC34167TGOS-ND	5A Step-Up/Down/Inv. Switching Regulator*	TO-220-5	3.98	3.20	2.92
MC34167TVGOS-ND	5A Step-Up/Down/Inv. Switching Regulator*	TO-220-5	3.11	2.50	2.28
NCP1034DR2GOSCT-ND	100V PWM Sync. Buck Controller ***NEW!***	16-SOIC	6.00	4.90	4.40
NCP1034DR2GOSTR-ND	100V PWM Sync. Buck Controller ***NEW!***	16-SOIC	6650.00/2,500		
NCP1400ASN50T1GOSCT-ND	100mA, 5V PWM Step-Up Switching Regulator*	TSOT-23-5	.88	.68	.60
NCP1400ASN50T1GOSTR-ND	100mA, 5V PWM Step-Up Switching Regulator*	TSOT-23-5	870.00/3,000		
NCP1402SN50T1GOSCT-ND	200mA, 5V PFM Step-Up Switching Regulator*	SOT-23-5	.88	.68	.60
NCP1402SN50T1GOSTR-ND	200mA, 5V PFM Step-Up Switching Regulator*	SOT-23-5	870.00/3,000		
NCP1729SN35T1GOSCT-ND	Switched Capacitor Voltage Inverter*	6-TSOP	1.14	.90	.81
NCP1729SN35T1GOSTR-ND	Switched Capacitor Voltage Inverter*	6-TSOP	1260.00/3,000		
NCP3064BDR2GOSCT-ND	1.5A Step-Up/Down/Inv. Switching Reg. ***NEW!***	8-SOIC	1.37	1.08	.98
NCP3064BDR2GOSTR-ND	1.5A Step-Up/Down/Inv. Switching Reg. ***NEW!***	8-SOIC	1260.00/2,500		
NCP3064DR2GOSCT-ND	1.5A Step-Up/Down/Inv. Switching Reg. ***NEW!***	8-SOIC	1.14	.90	.81
NCP3064DR2GOSTR-ND	1.5A Step-Up/Down/Inv. Switching Reg. ***NEW!***	8-SOIC	1050.00/2,500		
NCP3066DR2GOSCT-ND	1.5A Constant Current Switching Regulator ***NEW!***	8-SOIC	1.79	1.41	1.27
NCP3066DR2GOSTR-ND	1.5A Constant Current Switching Regulator ***NEW!***	8-SOIC	1645.00/2,500		
NCP3066PGOS-ND	1.5A Constant Current Switching Regulator ***NEW!***	8-DIP	1.65	1.32	1.16
NCP3102BMNTXGOSCT-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	5.18	4.24	3.80
NCP3102BMNTXGOSTR-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	5900.00/2,500		
NCP3102MNTXGOSCT-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	6.65	5.13	4.56
NCP3102MNTXGOSTR-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	6080.00/2,500		
NCP3163BPWGOS-ND	3.4A DC/DC Switching Regulator*	16-SOIC	2.57	2.08	1.87
NCV4274ADT33RKGOSCT-ND	400mA, 3.3V Micropower Voltage Regulator*	DPAK	2.17	1.68	1.52
NCV4274ADT33RKGOSTR-ND	400mA, 3.3V Micropower Voltage Regulator*	DPAK	2092.50/2,500		
NCV4274ADT50RKGOSCT-ND	400mA, 5.0V Micropower Voltage Regulator*	DPAK	2.17	1.68	1.52
NCV4274ADT50RKGOSTR-ND	400mA, 5.0V Micropower Voltage Regulator*	DPAK	2092.50/2,500		
NCV4274AST33T3GOSCT-ND	400mA, 3.3V Micropower Voltage Regulator*	SOT-223	2.28	1.76	1.60
NCV4274AST33T3GOSTR-ND	400mA, 3.3V Micropower Voltage Regulator*	SOT-223	3512.00/4,000		
NCV4274ST33T3GOSCT-ND	400mA, 3.3V Micropower Voltage Regulator*	SOT-223	2.28	1.76	1.60
NCV4274ST33T3GOSTR-ND	400mA, 3.3V Micropower Voltage Regulator*	SOT-223	3512.00/4,000		
SG3525ANGOS-ND	PWM Control Circuit*	16-Dip	1.52	1.22	1.07
TL494CNGOS-ND	42V SWITCHMODE™ PWM Ctrl Circuit*	16-Dip	.99	.77	.68

ON Semiconductor™ DISCRETE ARRAYS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MDC3105LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.66	.47	.40
MDC3105LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	558.00/3,000		
NUD3105DMT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SC-74-6	.77	.54	.47
NUD3105DMT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SC-74-6	651.00/3,000		
NUD3105LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.66	.47	.40
NUD3105LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	558.00/3,000		
NUD3112DMT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SC-74-6	.77	.54	.47
NUD3112DMT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SC-74-6	651.00/3,000		
NUD3112LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.66	.47	.40
NUD3112LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	558.00/3,000		
NUD3124DMT1GOSCT-ND	Automotive Inductive Load Driver	SC-74-6	.77	.54	.47
NUD3124DMT1GOSTR-ND	Automotive Inductive Load Driver	SC-74-6	651.00/3,000		
NUD3124LT1GOSCT-ND	Automotive Inductive Load Driver	SOT-23	.66	.47	.40
NUD3124LT1GOSTR-ND	Automotive Inductive Load Driver	SOT-23	558.00/3,000		
NUD3160DMT1GOSCT-ND	60V Inductive Load Driver	SC-74-6	.77	.54	.47
NUD3160DMT1GOSTR-ND	60V Inductive Load Driver	SC-74-6	651.00/3,000		
NUD3160LT1GOSCT-ND	60V Inductive Load Driver	SOT-23	.66	.47	.40
NUD3160LT1GOSTR-ND	60V Inductive Load Driver	SOT-23	558.00/3,000		

ON Semiconductor™ HARDWARE MONITORS/ THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM1023ARQZ-ND	2-Ch. Digital Thermometer/Under and Overtemp. Alarm*	16-QSOP	8.13	6.67	6.02
ADM1024ARUZ-ND	Monitor System Temperature/Voltage*	24-TSSOP	9.25	7.59	6.85
ADM1032ARMZ-ND	Temp. Monitor Default Set at 85°C*	8-MSOP	1.68	1.35	1.18
ADT7467ARQZ-ND	dBCool Remote Thermal Monitor and Fan Controller*	16-QSOP	7.25	5.95	5.37
EVAL-ADT7467EB-ND	Evaluation Board for ADT7467	—	187.50	—	—
ADT7475ARQZ-ND	dBCool Remote Thermal Monitor and Fan Controller*	24-QSOP	4.73	3.81	3.47

* *RoHS Compliant*

ON Semiconductor™ *(Cont.)* HARDWARE MONITORS/ THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADT7476AARQZ-ND	dBCool Remote Thermal Controller and Voltage Monitor*	24-QSOP	2.88	2.33	2.10

ON Semiconductor™ HIGH FREQUENCY

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC10ELT25DGOS-ND	5V Differential ECL to TTL Translator*	8-SOIC	5.46	4.39	4.00
MC10EP57DTGOS-ND	3.3V/5V ECL 4:1 Differential Multiplexer*	20-TSSOP	13.09	11.01	10.12
MC10EP105FAR2OSCT-ND	3.3V/5V ECL Quad 2-Input Diff. AND/NAND Gate	32-LQFP	19.17	16.26	15.01
MC100EL16DGOS-ND	5V ECL Differential Receiver*	8-SOIC	6.25	5.13	4.63
MC100ELT23DGOS-ND	5V Dual Differential PECL to TTL Translator*	8-SOIC	5.46	4.39	4.00
MC100ELT24DGOS-ND	5V TTL to Differential ECL Translator*	8-SOIC	5.46	4.39	4.00
MC100EP08DTGOS-ND	3.3V/5V ECL 2-In. Differential XOR/XNOR Gate*	8-TSSOP	8.75	7.18	6.48
MC100EP11DGOS-ND	3.3V/5V ECL 1:2 Differential Fanout Buffer*	8-SOIC	8.75	7.18	6.48
MC100EP14DTGOS-ND	3.3V/5V, 1:5 Diff. ECL/PECL/HSTL Clock Driver*	20-TSSOP	11.25	9.23	8.33
MC100EP57DTGOS-ND	3.3V/5V ECL 4:1 Differential Multiplexer*	20-TSSOP	11.77	9.90	9.10
MC100EP195BMNGOS-ND	3.3V ECL Programmable Delay Chip*	32-QFN	17.60	14.80	13.60
MC100EP196BMNGOS-ND	3.3V ECL Programmable Delay Chip w/FTUNE*	32-QFN	17.60	14.80	13.60
MC100EP445MNGOS-ND	3.3V/5V ECL 8-Bit Serial/Parallel Converter*	32-QFN	25.30	21.51	19.93
MC100EPT20DGOS-ND	3.3V TTL/CMOS to Diff. PECL Translator*	8-SOIC	9.25	7.59	6.85
MC100EPT21DGOS-ND	3.3V Differential LVPECL to LVTTL Translator*	8-SOIC	9.25	7.59	6.85
MC100EPT21DTGOS-ND	3.3V Differential LVPECL to LVTTL Translator*	8-TSSOP	9.25	7.59	6.85
MC100EPT22DGOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator*	8-SOIC	9.25	7.59	6.85
MC100EPT23DGOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator*	8-SOIC	9.25	8.14	7.03
MC100LVEL16DGOS-ND	3.3V ECL Differential Receiver*	8-SOIC	6.25	5.13	4.63
MC100LVELT22DGOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator*	8-SOIC	5.32	4.28	3.90
MC100LVEP11DTGOS-ND	2.5V/3.3V ECL 1:2 Differential Fanout Buffer*	8-TSSOP	8.75	7.18	6.48
MC100LVEP14DTGOS-ND	2.5V/3.3V 2:5 Differential ECL/Clock Driver*	20-TSSOP	11.25	9.23	8.33
MC100LVEP111FAGOS-ND	2.5V/3.3V 2:10 Differential Clock Driver*	32-LQFP	11.55	9.72	8.93
MC12026ADGOS-ND	1.1GHz Dual Modulus Prescaler*	8-SOIC	5.32	4.28	3.90
MC12080DGOS-ND	1.1GHz Prescaler*	8-SOIC	5.32	4.28	3.90
MC12093DGOS-ND	2/4/8 1.1GHz Single Modulus Prescaler*	8-SOIC	5.32	4.28	3.90
NB3N5573DTGOS-ND	3.3V Crystal to HCSL Clock Generator*	16-TSSOP	5.04	4.05	3.69
NLSX3378FCT1GOSCT-ND	4-Bit Dual Supply Level Translator*	12-µBump	2.87	2.22	2.01
NLSX4014MUTAGOSCT-ND	4-Bit Dual Supply Level Translator*	12-UQFN	2.56	1.98	1.80

ON Semiconductor™ LDO REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2931AD-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator*	8-SOIC	.71	.55	.48
LM2931AD-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	.78	.61	.54
LM2931AD-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	642.50/2,500		
LM2931AZ-5.0GOS-ND	100mA, 5V LDO Voltage Regulator*	TO-92	.66	.52	.45
LM2931AZ-5.0RAGOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	.72	.56	.50
LM2931AZ-5.0RAGOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	478.00/2,000		
LM2931CDGOS-ND	100mA, Adj. LDO Voltage Regulator*	8-SOIC	.66	.52	.45
LM2931CDR2GOSCT-ND	0.1A, Adj. Output, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	.72	.56	.50
LM2931CDR2GOSTR-ND	0.1A, Adj. Output, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	597.50/2,500		
LM2931CTGOS-ND	0.1A, Adj. Output, LDO Voltage Regulator with 60V Load Dump Protection*	TO-220-5	1.11	.89	.78
LM2931D-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator*	8-SOIC	.66	.52	.45
LM2931D-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	.71	.55	.49
LM2931D-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	585.00/2,500		
LM2931T-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-220AB	1.15	.93	.81
LM2931Z-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	.71	.55	.48
LP2950ACDT-5.0GOS-ND	100mA, 5V, Low Power LDO Voltage Regulator*	DPAK	.93	.72	.63
LP2950ACZ-3.3GOS-ND	100mA, 3.3V, Low Power LDO Voltage Regulator*	TO-92	.92	.72	.63
LP2950ACZ-5.0GOS-ND	100mA, 5V, Low Power LDO Voltage Regulator*	TO-92	.92	.72	.63
LP2950CDT-3.3GOS-ND	100mA, 3.3V, Low Power LDO Voltage Regulator*	DPAK	.91	.71	.62
LP2950CDT-5.0GOS-ND	100mA, 5V, Low Power LDO Voltage Regulator*	DPAK	.89	.69	.61
LP2950CDT-5.0RKGOSCT-ND	100mA, 5V, Low Power LDO Voltage Regulator*	DPAK	.98	.76	.67
LP2950CDT-5.0RKGOSTR-ND	100mA, 5V, Low Power LDO Voltage Regulator*	DPAK	805.00/2,500		
LP2950CZ-5.0GOS-ND	100mA, 5V, Low Power LDO Voltate Regulator*	TO-92	.87	.68	.59
LP2951ACDGOS-ND	100mA, 5V/Adj., LP LDO Voltage Regulator*	8-SOIC	.74	.58	.50
LP2951ACDR2GOSCT-ND	100mA, 5V/Adj., LP LDO Voltage Regulator*	8-SOIC	.81	.63	.56
LP2951ACDR2GOSTR-ND	100mA, 5V/Adj., LP LDO Voltage Regulator*	8-SOIC	670.00/2,500		
LP2951CNGOS-ND	100mA, 5V/Adj., LP LDO Voltage Regulator*	8-Dip	.89	.69	.61
MC78PC33NTRGOSCT-ND	150mA, 3.3V, LDO Linear Voltage Regulator*	SOT-23-5	.87	.68	.60
MC78PC33NTRGOSTR-ND	150mA, 3.3V, LDO Linear Voltage Regulator*	SOT-23-5	864.00/3,000		
MC33269DTRK-3.3GOSCT-ND	3.3V, 800mA, Adj. Output, LDO Voltage Reg.*	DPAK	1.07	.83	.73
MC33269DTRK-3.3GOSTR-ND	3.3V, 800mA, Adj. Output, LDO Voltage Reg.*	DPAK	877.50/2,500		
MC33275DT-5.0GOS-ND	300mA, 5V, Low Dropout Regulator*	DPAK	1.02	.82	.72
MC33275ST-5.0T3GOSCT-ND	300mA, 5V, Low Dropout Regulator*	SOT-223	1.06	.84	.76
MC33275ST-5.0T3GOSTR-ND	300mA, 5V, Low Dropout Regulator*	SOT-223	1564.00/4,000		
NCP500SN33T1GOSCT-ND	3.3V, 150mA CMOS LDO Voltage Regulator*	5-TSOP	.79	.55	.48
NCP500SN33T1GOSTR-ND	3.3V, 150mA CMOS LDO Voltage Regulator*	5-TSOP	663.00/3,000		
NCP502SQ25T1OSCT-ND	2.5V, 180mA CMOS Voltage Regulator	SC70-5	.74	.57	.51
NCP511SN33T1GOSCT-ND	3.3V, 150mA CMOS Low IQ, LDO Volt. Regulator*	SOT-23-5	.79	.55	.48
NCP511SN33T1GOSTR-ND	3.3V, 150mA CMOS Low IQ, LDO Volt. Regulator*	SOT-23-5	663.00/3,000		
NCP551SN33T1GOSCT-ND	3.3V, 150mA LDO Voltage Regulator*	5-TSOP	.79	.55	.48
NCP551SN33T1GOSTR-ND	3.3V, 150mA LDO Voltage Regulator*	5-TSOP	663.00/3,000		
NCP562SQ25T1OSCT-ND	2.5V, 80mA CMOS LDO Voltage Regulator	SC70-4	.64	.50	.44
NCP565D2T12GOS-ND	1.2V, 1.5A LDO Linear Regulator*	D2-PAK	1.68	1.35	1.18
NCP565D2TGOS-ND	Adj., 1.5A LDO Linear Regulator*	D2-PAK	1.68	1.35	1.18
NCP580SQ15T1GOSCT-ND	1.5V, 120mA CMOS LDO Regulator*	SC-82AB	.66	.47	.40
NCP580SQ25T1GOSCT-ND	2.5V, 120mA CMOS LDO Regulator*	SC-82AB	.66	.47	.40
NCP580SQ28T1GOSCT-ND	2.8V, 120mA CMOS LDO Regulator*	SC-82AB	.66	.47	.40
NCP580SQ30T1GOSCT-ND	3V, 120mA CMOS LDO Regulator*	SC-82AB	.66	.47	.40

ON Semiconductor™ *(Cont.)* LDO REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NCP582DSQ15T1OSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP582DSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.71	.55	.49
NCP582DSQ18T1OSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	702.00/3,000		
NCP582DSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP582LSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP582LSQ25T1OSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.71	.55	.49
NCP582LSQ25T1OSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	702.00/3,000		
NCP582LSQ28T1OSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP582LSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP582LSQ33T1OSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.71	.55	.49
NCP582LSQ33T1OSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	702.00/3,000		
NCP583SQ15T1GOSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP583SQ18T1GOSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.71	.55	.49
NCP583SQ18T1GOSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	702.00/3,000		
NCP583SQ28T1GOSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.61	.48	.42
NCP583SQ28T1GOSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	573.00/3,000		
NCP583SQ30T1GOSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.71	.55	.49
NCP583SQ30T1GOSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	702.00/3,000		
NCP584HSN09T1GOSCT-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	.66	.51	.45
NCP584HSN09T1GOSTR-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	615.00/3,000		
NCP584HSN12T1GOSCT-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	.77	.60	.53
NCP584HSN12T1GOSTR-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	756.00/3,000		
NCP584LSN18T1GOSCT-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	.77	.60	.53
NCP584LSN18T1GOSTR-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	756.00/3,000		
NCP585DSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.87	.68	.60
NCP585DSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	864.00/3,000		
NCP585DSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	.75	.59	.52
NCP585HSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.93	.72	.64
NCP585HSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	918.00/3,000		
NCP585HSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	.80	.62	.55
NCP585LSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	.80	.62	.55
NCP585LSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.93	.72	.64
NCP585LSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	918.00/3,000		
NCP699SN15T1GOSCT-ND	1.5V, 150mA CMOS LDO with Enable*	SOT-23-5	.53	.35	.29
NCP699SN15T1GOSTR-ND	1.5V, 150mA CMOS LDO with Enable*	SOT-23-5	342.00/3,000		
NCP699SN18T1GOSCT-ND	1.8V, 150mA CMOS LDO with Enable*	SOT-23-5	.62	.41	.34
NCP699SN18T1GOSTR-ND	1.8V, 150mA CMOS LDO with Enable*	SOT-23-5	423.00/3,000		
NCP699SN25T1GOSCT-ND	2.5V, 150mA CMOS LDO with Enable*	SOT-23-5	.62	.41	.34
NCP699SN25T1GOSTR-ND	2.5V, 150mA CMOS LDO with Enable*	SOT-23-5	423.00/3,000		
NCP699SN28T1GOSCT-ND	2.8V, 150mA CMOS LDO with Enable*	SOT-23-5	.53	.35	.29
NCP699SN30T1GOSCT-ND	3.0V, 150mA CMOS LDO with Enable*	SOT-23-5	.62	.41	.34
NCP699SN30T1GOSTR-ND	3.0V, 150mA CMOS LDO with Enable*	SOT-23-5	423.00/3,000		
NCP699SN33T1GOSCT-ND	3.3V, 150mA CMOS LDO with Enable*	SOT-23-5	.62	.41	.34
NCP699SN33T1GOSTR-ND	3.3V, 150mA CMOS LDO with Enable*	SOT-23-5	423.00/3,000		
NCP699SN50T1GOSCT-ND	5.0V, 150mA CMOS LDO with Enable*	SOT-23-5	.62	.41	.34
NCP699SN50T1GOSTR-ND	5.0V, 150mA CMOS LDO with Enable*	SOT-23-5	423.00/3,000		
NCP700MN180R2GOSCT-ND	1.8V, 200mA LDO Regulator*	6-DFN	.95	.75	.68
NCP700MN180R2GOSTR-ND	1.8V, 200mA LDO Regulator*	6-DFN	1026.00/3,000		
NCP700MN280R2GOSCT-ND	2.8V, 200mA LDO Regulator*	6-DFN	.95	.75	.68
NCP700MN280R2GOSTR-ND	2.8V, 200mA LDO Regulator*	6-DFN	1026.00/3,000		
NCP1117DT33GOS-ND	3.3V, 1A Positive Voltage LDO Regulator*	DPAK	.52	.39	.33
NCP1117DT33RKGOSCT-ND	3.3V, 1A Positive Voltage LDO Regulator*	DPAK	.60	.43	.37
NCP1117DT33RKGOSTR-ND	3.3V, 1A Positive Voltage LDO Regulator*	DPAK	422.50/2,500		
NCP1117ST18T3GOSCT-ND	1.8V, 1A Positive Voltage LDO Regulator*	SOT-223	.60	.43	.37
NCP1117ST18T3GOSTR-ND	1.8V, 1A Positive Voltage LDO Regulator*	SOT-223	676.00/4,000		
NCP1117ST33T3GOSCT-ND	3.3V, 1A, LDO Positive Voltage Regulator*	SOT-223	.60	.43	.37
NCP1117ST33T3GOSTR-ND	3.3V, 1A, LDO Positive Voltage Regulator*	SOT-223	676.00/4,000		
NCP1117ST50T3GOSCT-ND	5V, 1A Positive Voltage LDO Regulator*	SOT-223	.60	.43	.37
NCP1117ST50T3GOSTR-ND	5V, 1A Positive Voltage LDO Regulator*	SOT-223	676.00/4,000		
NCP1117STAT3GOSCT-ND	Adj., 1A Positive Voltage LDO Regulator*	SOT-223	.60	.43	.37
NCP1117STAT3GOSTR-ND	Adj., 1A Positive Voltage LDO Regulator*	SOT-223	676.00/4,000		
NCP3520DMR2GOSCT-ND	1.2V LDO Regulator Controller*	8-Micro	1.69	1.47	1.13
NCP5663DSADJR4GOSCT-ND	Adj., 3.0A LDO Linear Regulator*	D2PAK-5	2.14	1.65	1.50
NCP5663DSADJR4GOSTR-ND	Adj., 3.0A LDO Linear Regulator*	D2PAK-5	768.80/800		
NCV1117ST50T3GOSCT-ND	1.8V, 1A Positive LDO Voltage Regulator*	SOT-223	.99	.79	.71
NCV1117ST50T3GOSTR-ND	1.8V, 1A Positive LDO Voltage Regulator*	SOT-223	1460.00/4,000		
NCV8664ST50T3GOSCT-ND	5.0V, 150mA LDO Linear Regulator*	SOT-223	2.98	2.30	2.09
NCV8664ST50T3GOSTR-ND	5.0V, 150mA LDO Linear Regulator*	SOT-223	4592.00/4,000		

ON Semiconductor™ LED DISPLAY / DRIVERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NCP3063BDR2GOSCT-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1.22	.96	.87
NCP3063BDR2GOSTR-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1120.00/2,500		
NCP3063DR2GOSCT-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1.03	.81	.73
NCP3063DR2GOSTR-ND	1.5A DC/DC Switching Regulator*	8-SOIC	945.00/2,500		
NCP3063PGOS-ND	1.5A DC/DC Switching Regulator*	8-Dip	1.12	.90	.79
NCP3065DR2GOSCT-ND	1.5A Constant Current Switching Regulator	8-SOIC	1.71	1.35	1.22
NCP3065DR2GOSTR-ND	1.5A Constant Current Switching Regulator	8-SOIC	1575.00/2,500		
NCP3065MNTXGOSCT-ND	1.5A Constant Current Switching Regulator	8-DFN	1.79	1.41	1.27
NCP3065MNTXGOSTR-ND	1.5A Constant Current Switching Regulator	8-DFN	2632.00/4,000		
NCP3065PGOS-ND	1.5A Constant Current Switching Regulator	8-Dip	1.58	1.26	1.11
NCP5050MTTXGOSCT-ND	4.5W White LED Boost Driver	10-WDFN	1.81	1.40	1.27
NCP5050MTTXGOSTR-ND	4.5W White LED Boost Driver	10-WDFN	2124.00/3,000		
NCV3065DR2GOSCT-ND	1.5A Constant Current Switching Regulator	8-SOIC	1.82	1.44	1.30
NCV3065DR2GOSTR-ND	1.5A Constant Current Switching Regulator	8-SOIC	1680.00/2,500		
NCV3065MNTXGOSCT-ND	1.5A Constant Current Switching Regulator	8-DFN	1.75	1.35	1.23
NCV3065MNTXGOSTR-ND	1.5A Constant Current Switching Regulator	8-DFN	2700.00/4,000		
NCV3065PGOS-ND	1.5A Constant Current Switching Regulator	8-Dip	1.37	1.10	.96
NSI45020AT1GOSCT-ND	20mA, 45V LED Driver ***NEW!***	SOD-123	.58	.38	.32
NSI45020AT1GOSTR-ND	20mA, 45V LED Driver ***NEW!***	SOD-123	396.00/3,000		
NSI45025AT1GOSCT-ND	25mA, 45V LED Driver ***NEW!***	SOD-123	.58	.38	.32
NSI45025AT1GOSTR-ND	25mA, 45V LED Driver ***NEW!***	SOD-123	396.00/3,000		
NSI45025AZT1GOSCT-ND	25mA, 45V LED Driver ***NEW!***	SOT-223	.66	.47	.40
NSI45025AZT1GOSTR-ND	25mA, 45V LED Driver ***NEW!***	SOT-223	204.00/1,000		
NSI45030AT1GOSCT-ND	30mA, 45V LED Driver ***NEW!***	SOD-123	.58	.38	.32
NSI45030AT1GOSTR-ND	30mA, 45V LED Driver ***NEW!***	SOD-123	396.00/3,000		
NSI45030AZT1GOSCT-ND	30mA, 45V LED Driver ***NEW!***	SOT-223	.66	.47	.40
NSI45030AZT1GOSTR-ND	30mA, 45V LED Driver ***NEW!***	SOT-223	204.00/1,000		
NUD4001DR2GOSCT-ND	High Current LED Driver	8-SOIC	1.03	.81	.73
NUD4001DR2GOSTR-ND	High Current LED Driver	8-SOIC	945.00/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ON Semiconductor™ Digi-Reel® MICRO-INTEGRATION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NUF2101MT1GOSCT-ND	USB Filter with ESD Protection*	6-TSOP	.88	.68	.60
NUF2101MT1GOSTR-ND	USB Filter with ESD Protection*	6-TSOP	870.00/3,000		
NUP4201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	.82	.58	.50
NUP4201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	693.00/3,000		
NZF220DFT1GOSCT-ND	EMI Filter with ESD Protection*	SOT-353	.61	.43	.37
NZF220DFT1GOSTR-ND	EMI Filter with ESD Protection*	SOT-353	513.00/3,000		

ON Semiconductor™ Digi-Reel® MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74HC00DR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.62	.37	.30
74HC00DR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	262.50/2,500		
74HC00DTR2GOSCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.62	.37	.30
74HC00DTR2GOSTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	262.50/2,500		
74HC02DR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.62	.37	.30
74HC02DR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	262.50/2,500		
74HC02DTR2GOSCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.62	.37	.30
74HC02DTR2GOSTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	262.50/2,500		
74HC04DR2GOSCT-ND	Hex Inverter*	14-SOIC	.62	.37	.30
74HC04DR2GOSTR-ND	Hex Inverter*	14-SOIC	262.50/2,500		
74HC04DTR2GOSCT-ND	Hex Inverter*	14-TSSOP	.62	.37	.30
74HC04DTR2GOSTR-ND	Hex Inverter*	14-TSSOP	262.50/2,500		
74HC08DR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.51	.30	.24
74HC08DR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	212.50/2,500		
74HC08DTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.62	.37	.30
74HC08DTR2GOSTR-ND	Quad 2-Input AND Gate*	14-TSSOP	262.50/2,500		
74HC14DR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	.63	.37	.30
74HC14DR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	267.50/2,500		
74HC14DTR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	.47	.31	.26
74HC14DTR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	267.50/2,500		
74HC32DR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.62	.37	.30
74HC32DR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	262.50/2,500		
74HC32DTR2GOSCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.47	.31	.26
74HC32DTR2GOSTR-ND	Quad 2-Input OR Gate*	14-TSSOP	267.50/2,500		
74HC74DR2GOSCT-ND	Dual D-Type Flip-Flop with Set/Reset*	14-SOIC	.47	.31	.26
74HC74DR2GOSTR-ND	Dual D-Type F/F with Set/Reset*	14-SOIC	267.50/2,500		
74HC74DTR2GOSCT-ND	Dual D-Type F/F with Set/Reset*	14-TSSOP	.51	.34	.28
74HC74DTR2GOSTR-ND	Dual D-Type F/F with Set/Reset*	14-TSSOP	292.50/2,500		
74HC86DR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.39	.26	.21
74HC86DR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	215.00/2,500		
74HC86DTR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	.47	.31	.26
74HC86DTR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	267.50/2,500		
74HC125DR2GOSCT-ND	Quad Tri-State Non-Inverting Buffer*	14-SOIC	.51	.34	.28
74HC125DR2GOSTR-ND	Quad Tri-State Non-Inverting Buffer*	14-SOIC	292.50/2,500		
74HC125DTR2GOSCT-ND	Quad Tri-State Non-Inverting Buffer*	14-TSSOP	.51	.34	.28
74HC125DTR2GOSTR-ND	Quad Tri-State Non-Inverting Buffer*	14-TSSOP	292.50/2,500		
74HC132DR2GOSCT-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-SOIC	.49	.32	.27
74HC132DR2GOSTR-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-SOIC	277.50/2,500		
74HC132DTR2GOSCT-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-TSSOP	.56	.37	.31
74HC132DTR2GOSTR-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-TSSOP	317.50/2,500		
74HC138DR2GOSCT-ND	1-of-8 Decoder/Demux*	16-SOIC	.56	.37	.31
74HC138DR2GOSTR-ND	1-of-8 Decoder/Demux*	16-SOIC	317.50/2,500		
74HC138DTR2GOSCT-ND	1-of-8 Decoder/Demux*	16-TSSOP	.56	.37	.31
74HC138DTR2GOSTR-ND	1-of-8 Decoder/Demux*	16-TSSOP	317.50/2,500		
74HC244DTR2GOSCT-ND	Tri-State Non-Inverting Buffer/Line Driver/Rcvr.*	20-TSSOP	.54	.36	.30
74HC245DTR2GOSCT-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-TSSOP	.54	.36	.30
74HC245DTR2GOSTR-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-TSSOP	285.00/2,500		
74HC373DTR2GOSCT-ND	Tri-State Octal Non-Inverting Transparent Latch*	20-TSSOP	.44	.31	.27
74HC373DTR2GOSTR-ND	Tri-State Octal Non-Inverting Transparent Latch*	20-TSSOP	305.00/2,500		
74HC374DTR2GOSCT-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	.44	.31	.27
74HC574DTR2GOSCT-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	.71	.50	.43
74HC574DTR2GOSTR-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	500.00/2,500		
74HC595DR2GOSCT-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-SOIC	.51	.36	.31
74HC595DR2GOSTR-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-SOIC	360.00/2,500		
74HC595DTR2GOSCT-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-TSSOP	.51	.36	.31
74HC595DTR2GOSTR-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-TSSOP	360.00/2,500		
74HCT04DR2GOSCT-ND	Hex Inverter*	14-SOIC	.47	.31	.26
74HCT04DR2GOSTR-ND	Hex Inverter*	14-SOIC	267.50/2,500		
74HCT08DR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.47	.31	.26
74HCT08DR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	267.50/2,500		
74HCT08DTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.39	.26	.21
74HCT14DR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	.44	.29	.24
74HCT14DR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	252.50/2,500		
74HCT14DTR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	.47	.31	.26
74HCT14DTR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	267.50/2,500		
74HCT32DR2GOSCT-ND	Quad 2-Input OR Gate, LSTTL Compatible Inputs*	14-SOIC	.39	.26	.21
74HCT32DTR2GOSCT-ND	Quad 2-Input OR Gate, LSTTL Compatible Inputs*	14-TSSOP	.39	.26	.21
74HCT157DR2GOSCT-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	.60	.43	.37
74HCT157DR2GOSTR-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	422.50/2,500		
74HCT157DTR2GOSCT-ND	Quad 2-Input Data Selector/Multiplexer*	16-TSSOP	.53	.37	.32
74HCU04DR2GOSCT-ND	Hex Inverter, Unbuffered*	14-SOIC	.39	.26	.21
74HCU04DR2GOSTR-ND	Hex Inverter, Unbuffered*	14-SOIC	215.00/2,500		
74HCU04DTR2GOSCT-ND	Hex Inverter, Unbuffered*	14-TSSOP	.47	.31	.26
74HCU04DTR2GOSTR-ND	Hex Inverter, Unbuffered*	14-TSSOP	267.50/2,500		
M74VHC1G125DFT2GOSCT-ND	Tri-State Non-Inverting Buffer*	SOT-353	.73	.34	.24
M74VHC1G125DFT2GOSTR-ND	Tri-State Non-Inverting Buffer*	SOT-353	205.58/3,000		
M74VHC1G132DFT1GOSCT-ND	Single 2-Input NAND Schmitt-Trigger*	SOT-353	.73	.34	.24
M74VHC1G132DFT1GOSTR-ND	Single 2-Input NAND Schmitt-Trigger*	SOT-353	207.00/3,000		
M74VHC1GT04DFT1GOSCT-ND	Inv. Buffer/CMOS Logic Level Shifter*	SOT-353	.73	.34	.24
M74VHC1GT04DFT1GOSTR-ND	Inv. Buffer/CMOS Logic Level Shifter*	SOT-353	207.00/3,000		
M74VHC1GT08DFT1GOSCT-ND	2-Input AND Gate/CMOS Logic Level Shifter*	SOT-353	.73	.34	.24
M74VHC1GT08DFT1GOSTR-ND	2-Input AND Gate/CMOS Logic Level Shifter*	SOT-353	207.00/3,000		
M74VHC1GT50DFT1GOSCT-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-353	.73	.34	.24
M74VHC1GT50DFT1GOSTR-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-353	207.00/3,000		
M74VHC1GT50DTT1GOSCT-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	.44	.25	.19
M74VHC1GT50DTT1GOSTR-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	186.00/3,000		

ON Semiconductor™ Digi-Reel® (Cont.) MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
M74VHC1GT125DF1GOSCT-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-353	.73	.34	.24
M74VHC1GT125DF1GOSTR-ND	Non-Inverting Buffer/CMOS Logic Level Shifter*	SOT-353	207.00/3,000		
M74VHC1GT125DT1GOSCT-ND	Noninverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	.44	.25	.19
M74VHC1GT125DT1GOSTR-ND	Noninverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	186.00/3,000		
MC74AC00DGOS-ND	Quad 2-Input NAND Gate *	14-SOIC	.44	.33	.28
MC74AC00DR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.51	.36	.31
MC74AC00DR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	360.00/2,500		
MC74AC00NGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.67	.52	.46
MC74AC02DGOS-ND	Quad 2-Input NOR Gate*	14-SOIC	.44	.33	.28
MC74AC04DGOS-ND	Hex Inverter*	14-SOIC	.44	.33	.28
MC74AC04DR2GOSCT-ND	Hex Inverter*	14-SOIC	.51	.36	.31
MC74AC04DR2GOSTR-ND	Hex Inverter*	14-SOIC	360.00/2,500		
MC74AC04NGOS-ND	Hex Inverter*	14-Dip	.67	.52	.46
MC74AC08DGOS-ND	Quad 2-Input AND Gate*	14-SOIC	.44	.33	.28
MC74AC08DR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.61	.43	.37
MC74AC08NGOS-ND	Quad 2-Input AND Gate*	14-Dip	.67	.52	.46
MC74AC10DR2OSCT-ND	Triple 3-Input NAND Gate	14-SOIC	.61	.43	.37
MC74AC14DGOS-ND	Hex Inverter Schmitt-Trigger*	14-SOIC	.64	.48	.41
MC74AC14NGOS-ND	Hex Inverter Schmitt-Trigger*	14-Dip	.67	.52	.46
MC74AC32DGOS-ND	Quad 2-Input OR Gate*	14-SOIC	.44	.33	.28
MC74AC32DR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.51	.36	.31
MC74AC32DR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	360.00/2,500		
MC74AC74DGOS-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	.48	.36	.31
MC74AC74DR2GOSCT-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	.56	.40	.34
MC74AC74DR2GOSTR-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	395.00/2,500		
MC74AC132DGOS-ND	Quad 2-Input NAND Schimitt-Trigger*	14-SOIC	.59	.44	.38
MC74AC138DGOS-ND	1:8 Decoder/Demultiplexer*	16-SOIC	.58	.43	.37
MC74AC138NGOS-ND	1:8 Decoder/Demultiplexer*	16-Dip	.78	.61	.53
MC74AC245NGOS-ND	Tri-State Octal Bidirectional Transceiver*	20-Dip	1.37	1.10	.97
MC74AC541DWGOS-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.79	.62	.54
MC74AC573DWGOS-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.76	.59	.52
MC74AC573DWR2GOSCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.84	.65	.57
MC74AC573DWR2GOSTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	304.00/1,000		
MC74AC574DWGOS-ND	Tri-State Octal D Flip-Flop*	20-SOIC	.76	.59	.52
MC74ACT00DGOS-ND	Quad 2-Input NAND Gate*	14-SOIC	.44	.33	.28
MC74ACT02DGOS-ND	Quad 2-Input NOR Gate*	14-SOIC	.44	.33	.28
MC74ACT04DGOS-ND	Hex Inverter*	14-SOIC	.44	.33	.28
MC74ACT05DGOS-ND	Hex Inverter, Open Drain Outputs*	14-SOIC	.44	.33	.28
MC74ACT08DGOS-ND	Quad 2-Input AND Gate*	14-SOIC	.44	.33	.28
MC74ACT14DGOS-ND	Hex Inverter Schmitt-Trigger*	14-SOIC	.64	.48	.41
MC74ACT14DR2GOSCT-ND	Hex Inverter Schmitt Trigger*	14-SOIC	.74	.52	.45
MC74ACT14DR2GOSTR-ND	Hex Inverter Schmitt Trigger*	14-SOIC	520.00/2,500		
MC74ACT14NGOS-ND	Hex Inverter Schmitt-Trigger*	14-Dip	.67	.52	.46
MC74ACT32DGOS-ND	Quad 2-Input OR Gate*	14-SOIC	.44	.33	.28
MC74ACT74DGOS-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	.48	.36	.31
MC74ACT74DR2GOSCT-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	.56	.40	.34
MC74ACT74DR2GOSTR-ND	Dual D-Type Pos. Edge-Triggered F/F*	14-SOIC	395.00/2,500		
MC74ACT125DGOS-ND	Quad Buffer, Tri-State Output*	14-SOIC	.50	.37	.32
MC74ACT132DGOS-ND	Quad 2-Input NAND Schmitt-Trigger*	14-SOIC	.59	.44	.38
MC74ACT138DGOS-ND	1:8 Decoder/Demultiplexer*	16-SOIC	.58	.43	.37
MC74ACT244DWGOS-ND	Tri-St. Output Octal Buffer/Line Driver*	20-SOIC	.76	.59	.52
MC74ACT244DWR2GOSCT-ND	Tri-St. Output Octal Buffer/Line Driver*	20-SOIC	.84	.65	.57
MC74ACT244DWR2GOSTR-ND	Tri-St. Output Octal Buffer/Line Driver*	20-SOIC	304.00/1,000		
MC74ACT245DWGOS-ND	Tri-St. I/O Octal Bidirectional Xcvr.*	20-SOIC	.76	.59	.52
MC74ACT273DWGOS-ND	Octal D Flip-Flop*	20-SOIC	.76	.59	.52
MC74ACT541DTGOS-ND	Octal Line Driver*	20-TSSOP	.75	.58	.51
MC74ACT541DWGOS-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.79	.62	.54
MC74ACT541DWR2GOSCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.87	.68	.60
MC74ACT541DWR2GOSTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	318.00/1,000		
MC74ACT541NGOS-ND	Tri-State Octal Buffer/Line Driver*	20-Dip	1.37	1.10	.97
MC74ACT573DWGOS-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.76	.59	.52
MC74HC00ADGOS-ND	Quad 2-Input NAND Gate*	14-SOIC	.53	.31	.25
MC74HC00ADR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.59	.35	.28
MC74HC00ADR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	252.50/2,500		
MC74HC00ANGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.62	.46	.40
MC74HC02ADGOS-ND	Quad 2-Input NOR Gate*	14-SOIC	.53	.31	.25
MC74HC02ADR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.57	.40	.34
MC74HC02ADR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.59	.35	.28
MC74HC02ADR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	252.50/2,500		
MC74HC02ANGOS-ND	Quad 2-Input NOR Gate*	14-Dip	.66	.49	.42
MC74HC03ADGOS-ND	Quad 2-Input NAND Gate, OD Output*	14-SOIC	.53	.31	.25
MC74HC03ANGOS-ND	Quad 2-Input NAND Gate, OD Output*	14-Dip	.54	.40	.34
MC74HC04ADGOS-ND	Hex Inverter*	14-SOIC	.53	.31	.25
MC74HC04ADR2GOSCT-ND	Hex Inverter*	14-SOIC	.59	.35	.28
MC74HC04ADR2GOSTR-ND	Hex Inverter*	14-SOIC	252.50/2,500		
MC74HC04ANGOS-ND	Hex Inverter*	14-Dip	.66	.49	.42
MC74HC08ADGOS-ND	Quad 2-Input AND Gate*	14-SOIC	.53	.31	.25
MC74HC08ADR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.59	.35	.28
MC74HC08ADR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	252.50/2,500		
MC74HC08ADTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.59	.35	.28
MC74HC08ADTR2GOSTR-ND	Quad 2-Input AND Gate*	14-TSSOP	252.50/2,500		
MC74HC08ANGOS-ND	Quad 2-Input AND Gate*	14-Dip	.66	.49	.42
MC74HC14ADGOS-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.53	.31	.25
MC74HC14ADR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.59	.35	.28
MC74HC14ADR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	252.50/2,500		
MC74HC14ADTGOS-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	.53	.31	.25
MC74HC14ADTR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	.59	.35	.28
MC74HC14ADTR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	252.50/2,500		
MC74HC14ANGOS-ND	Hex Schmitt-Trigger Inverter*	14-Dip	.68	.50	.43
MC74HC32ADGOS-ND	Quad 2-Input OR Gate*	14-SOIC	.53	.31	.25
MC74HC32ANGOS-ND	Quad 2-Input OR Gate*	14-Dip	.66	.49	.42
MC74HC74ADGOS-ND	Dual D Flip-Flop with Set and Reset*	14-SOIC	.53	.31	.25
MC74HC74ADR2GOSCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.59	.35	.28
MC74HC74ADR2GOSTR-ND	Dual D-Type Flip-Flop*	14-SOIC	252.50/2,500		
MC74HC74ADTR2GOSCT-ND	Dual D-Type Flip-Flop*	14-TSSOP	.59	.35	.28
MC74HC74ADTR2GOSTR-ND	Dual D-Type Flip-Flop*	14-TSSOP	252.50/2,500		
MC74HC74ANGOS-ND	Dual D-Type Flip-Flop*	14-Dip	.68	.50	.43
MC74HC86ADGOS-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.53	.31	.25
MC74HC86ADR2OSCT-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.54	.36	.30
MC74HC86ADR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.59	.35	.28
MC74HC86ADR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	252.50/2,500		
MC74HC86ANGOS-ND	Quad 2-Input Exclusive OR Gate*	14-Dip	.68	.50	.43

* RoHS Compliant

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ON Semiconductor™ DigiReel® (Cont.) MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC74HC125ADGOS-ND	Tri-State Quad Noninverting Buffer*	14-SOIC	.44	.30	.24
MC74HC125ADR2OSCT-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	.64	.45	.39
MC74HC125ANGOS-ND	Tri-State Quad Noninverting Buffer*	14-Dip	.71	.53	.45
MC74HC126ADGOS-ND	Tri-State Quad Noninverting Buffer*	14-SOIC	.44	.30	.24
MC74HC126ANGOS-ND	Tri-State Quad Noninverting Buffer*	14-Dip	.71	.53	.45
MC74HC132ADGOS-ND	Quad 2-In. NAND Gate, Schmitt-Trigger*	14-SOIC	.44	.30	.24
MC74HC132ADR2GOSCT-ND	Quad 2-In. NAND Gate, Schmitt Trigger Input*	14-SOIC	.50	.33	.27
MC74HC132ADR2GOSTR-ND	Quad 2-In. NAND Gate, Schmitt Trigger Input*	14-SOIC	282.50/2,500		
MC74HC132ANGOS-ND	Quad 2-In NAND Gate, Schmitt-Trigger*	14-Dip	.71	.53	.45
MC74HC138ADGOS-ND	1:8 Decoder/Demultiplexer*	16-SOIC	.44	.30	.24
MC74HC138ADR2GOSCT-ND	1-of-8 Decoder/Demux*	16-SOIC	.50	.33	.27
MC74HC138ADR2GOSTR-ND	1-of-8 Decoder/Demux*	16-SOIC	282.50/2,500		
MC74HC138ANGOS-ND	1:8 Decoder/Demultiplexer*	16-Dip	.64	.50	.44
MC74HC139ADGOS-ND	Dual 1:4 Decoder/Demultiplexer*	16-SOIC	.44	.30	.24
MC74HC139ANGOS-ND	Dual 1:4 Decoder/Demultiplexer*	16-Dip	.62	.48	.42
MC74HC157ADGOS-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	.44	.30	.24
MC74HC157ADR2GOSCT-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	.50	.33	.27
MC74HC157ADR2GOSTR-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	282.50/2,500		
MC74HC157ADR2OSCT-ND	Quad 2-Input Data Selector/Multiplexer	16-SOIC	.48	.34	.29
MC74HC157ANGOS-ND	Quad 2-Input Data Selector/Multiplexer*	16-Dip	.61	.48	.42
MC74HC164ADGOS-ND	8-Bit SIPO Shift Register*	14-SOIC	.44	.30	.24
MC74HC164ANGOS-ND	8-Bit Serial-In/Parallel-Out Shift Register*	14-Dip	.65	.51	.44
MC74HC165ADGOS-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-SOIC	.44	.30	.24
MC74HC165ADR2GOSCT-ND	8-Bit Serial or Parallel-In/Serial Out Shift Register*	16-SOIC	.50	.33	.27
MC74HC165ADR2GOSTR-ND	8-Bit Serial or Parallel-In/Serial Out Shift Register*	16-SOIC	282.50/2,500		
MC74HC165ANGOS-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-Dip	.65	.51	.44
MC74HC174ADGOS-ND	Hex D Flip-Flop, Common Clock/Reset*	16-SOIC	.65	.48	.41
MC74HC240ADWGOS-ND	Tri-St. Octal Inverting Buffer/Line Driver/ Rcvr.*	20-SOIC	.67	.52	.46
MC74HC240ANGOS-ND	Tri-St. Octal Inverting Buffer/Line Driver/ Rcvr.*	20-Dip	1.20	.96	.84
MC74HC244ADTGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-TSSOP	.44	.33	.28
MC74HC244ADWGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	.67	.52	.46
MC74HC244ADWR2GOSCT-ND	Tri-State Octal Inverting Buffer/Line Driver/Line Receiver*	20-SOIC	.74	.58	.51
MC74HC244ADWR2GOSTR-ND	Tri-State Octal Inverting Buffer/Line Driver/Line Receiver*	20-SOIC	268.00/1,000		
MC74HC244ANGOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Line Receiver*	20-Dip	1.20	.96	.84
MC74HC245ADWGOS-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-SOIC	.67	.52	.46
MC74HC245ADWR2GOSCT-ND	Tri-State Octal Non-Inverting Bus Transceiver*	20-SOIC	.74	.58	.51
MC74HC245ADWR2GOSTR-ND	Tri-State Octal Non-Inverting Bus Transceiver*	20-SOIC	268.00/1,000		
MC74HC245ANGOS-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-Dip	1.20	.96	.84
MC74HC273ADWGOS-ND	Octal D F/F, Common Clock/Reset*	20-SOIC	.67	.52	.46
MC74HC273ANGOS-ND	Octal D Flip-Flop, Common Clock/Reset*	20-Dip	1.20	.96	.84
MC74HC373ADWGOS-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	.67	.52	.46
MC74HC373ANGOS-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-Dip	1.20	.96	.84
MC74HC374ADWGOS-ND	Tri-St. Non-Inverting Octal D Flip-Flop*	20-SOIC	.67	.52	.46
MC74HC374ANGOS-ND	Tri-State Non-Inverting Octal D Flip-Flop*	20-Dip	1.20	.96	.84
MC74HC540ADWGOS-ND	Tri-State Octal Inverting Buffer/Line Driver/ Rcvr.*	20-SOIC	.67	.52	.46
MC74HC540ANGOS-ND	Tri-State Octal Inverting Buffer/Line Driver/ Rcvr.*	20-Dip	1.20	.96	.84
MC74HC541ADWGOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	.67	.52	.46
MC74HC541ADWR2GOSCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	.74	.58	.51
MC74HC541ADWR2GOSTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	268.00/1,000		
MC74HC541ANGOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-Dip	1.20	.96	.84
MC74HC573ADWGOS-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	.67	.52	.46
MC74HC573ADWR2GOSCT-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	.74	.58	.51
MC74HC573ADWR2GOSTR-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	268.00/1,000		
MC74HC573ANGOS-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-Dip	1.20	.96	.84
MC74HC574ADWGOS-ND	Tri-State Non-Inverting Octal D F/F*	20-SOIC	.67	.52	.46
MC74HC574ADWR2GOSCT-ND	Tri-State Non-Inverting Octal D F/F*	20-SOIC	.74	.58	.51
MC74HC574ADWR2GOSTR-ND	Tri-State Non-Inverting Octal D F/F*	20-SOIC	268.00/1,000		
MC74HC574ANOS-ND	Tri-State Octal Non-Inverting D-Type F/F	20-Dip	.78	.63	.55
MC74HC574ANGOS-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-Dip	1.20	.96	.84
MC74HC589ADGOS-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-SOIC	.50	.37	.32
MC74HC589ADTR2GOSCT-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-TSSOP	.58	.41	.35
MC74HC589ADTR2GOSTR-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-TSSOP	410.00/2,500		
MC74HC589ANGOS-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register*	16-Dip	.76	.60	.52
MC74HC595ADGOS-ND	Tri-State Shift Register*	16-SOIC	.53	.35	.29
MC74HC595ADR2GOSCT-ND	Tri-State Shift Register*	16-SOIC	.59	.39	.32
MC74HC595ADR2GOSTR-ND	Tri-State Shift Register*	16-SOIC	332.50/2,500		
MC74HC595ADTGOS-ND	8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-TSSOP	.53	.35	.29
MC74HC595ADTR2GOSCT-ND	Tri-State Shift Register*	16-TSSOP	.59	.39	.32
MC74HC595ADTR2GOSTR-ND	Tri-State Shift Register*	16-TSSOP	332.50/2,500		
MC74HC595ANGOS-ND	Tri-State Shift Register*	16-Dip	.75	.58	.51
MC74HC4040ANGOS-ND	12-Stage Binary Ripple Counter*	16-Dip	.67	.52	.45
MC74HC4051ADWR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.74	.58	.51
MC74HC4051ADWR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	268.00/1,000		
MC74HC4060ADGOS-ND	14-Stage Binary Ripple Counter*	16-SOIC	.65	.48	.41
MC74HC4060ADROSCT-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.65	.46	.39
MC74HC4060ANGOS-ND	14-Stage Binary Ripple Counter*	16-Dip	.65	.51	.44
MC74HC4066ANGOS-ND	Quad Analog Switch/Mux/Demux*	14-Dip	.71	.53	.45
MC74HC4538ADGOS-ND	Dual Prec. Monostable Multivibrator*	16-SOIC	.71	.53	.45
MC74HC4538ANGOS-ND	Dual Precision Monostable Multivibrator*	16-Dip	.79	.62	.54
MC74HC4538ADR2GOSCT-ND	Dual Precision Monostable Multivibrator*	16-SOIC	.82	.58	.50
MC74HC4538ADR2GOSTR-ND	Dual Precision Monostable Multivibrator*	16-SOIC	577.50/2,500		
MC74HC4852ADR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	1.33	1.05	.95
MC74HC4852ADR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	1225.00/2,500		
MC74HC1G00DTT1GOSCT-ND	Single 2-Input NAND Gate*	SOT-23-5	.44	.25	.19
MC74HC1G00DTT1GOSTR-ND	Single 2-Input NAND Gate*	SOT-23-5	186.00/3,000		
MC74HC1G04DFT1GOSCT-ND	Single Inverter*	SOT-353	.73	.34	.24
MC74HC1G04DFT1GOSTR-ND	Single Inverter*	SOT-353	207.00/3,000		
MC74HC1G04DTT1GOSCT-ND	High Speed Single Inverter*	SOT-23-5	.44	.25	.19

ON Semiconductor™ DigiReel® (Cont.) MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC74HC1G04DTT1GOSTR-ND	High Speed Single Inverter*	SOT-23-5	186.00/3,000		
MC74HC1G08DTT1GOSCT-ND	Single 2-Input AND Gate*	SOT-23-5	.44	.25	.19
MC74HC1G08DTT1GOSTR-ND	Single 2-Input AND Gate*	SOT-23-5	186.00/3,000		
MC74HC1G32DTT1GOSCT-ND	Single 2-Input OR Gate*	SOT-23-5	.44	.25	.19
MC74HC1G32DTT1GOSTR-ND	Single 2-Input OR Gate*	SOT-23-5	186.00/3,000		
MC74HCT04ADGOS-ND	Hex Inverter*	14-SOIC	.53	.31	.25
MC74HCT04ADR2GOSCT-ND	Hex Inverter*	14-SOIC	.59	.35	.28
MC74HCT04ADR2GOSTR-ND	Hex Inverter*	14-SOIC	252.50/2,500		
MC74HCT04ANGOS-ND	Hex Inverter*	14-Dip	.66	.49	.42
MC74HCT14ADGOS-ND	Hex Schmitt-Trigger Inverter, LSTTL Input*	14-SOIC	.50	.37	.32
MC74HCT14ADR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.59	.35	.28
MC74HCT14ADR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	252.50/2,500		
MC74HCT14ANGOS-ND	Hex Schmitt-Trigger Inverter, LSTTL Input*	14-Dip	.68	.50	.43
MC74HCT74ADGOS-ND	Dual D Flip-Flop with Set and Reset*	14-SOIC	.50	.37	.32
MC74HCT74ANGOS-ND	Dual D Flip-Flop with Set and Reset*	14-Dip	.68	.50	.43
MC74HCT138ANGOS-ND	1:8 Decoder/Demux, LSTTL Input*	16-Dip	.71	.53	.45
MC74HCT244ADTGOSCT-ND	Tri-State Octal Non-Inverting Buffer/ Line Driver/Receiver*	20-TSSOP	.70	.50	.43
MC74HCT244ADTGOSTR-ND	Tri-State Octal Non-Inverting Buffer/ Line Driver/Receiver*	20-TSSOP	577.50/2,500		
MC74HCT244ADWGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	.67	.52	.46
MC74HCT244ANGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-Dip	1.20	.96	.84
MC74HCT245ADWGOS-ND	Tri-St. Octal Non-Inverting Bus Xcvr.*	20-SOIC	.67	.52	.46
MC74HCT245ANGOS-ND	Tri-St. Octal Non-Inverting Bus Xcvr.*	20-Dip	1.20	.96	.84
MC74HCT273ADWGOS-ND	Octal D Flip-Flop, Common Clock/Reset*	20-SOIC	.67	.52	.46
MC74HCT541ADWGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-SOIC	.67	.52	.46
MC74HCT541ANGOS-ND	Tri-St. Octal Non-Inverting Buffer/Line Driver/Receiver*	20-Dip	1.20	.96	.84
MC74HCT574ADWGOS-ND	Tri-St. Non-Inverting Octal D Flip-Flop*	20-SOIC	.67	.52	.46
MC74HCU04ADGOS-ND	Hex Unbuffered Inverter*	14-SOIC	.53	.31	.25
MC74LCX04DGOS-ND	Low Voltage Hex Inverter*	14-SOIC	.53	.35	.29
MC74LCX04DTGOS-ND	Low Voltage Hex Inverter*	14-TSSOP	.53	.35	.29
MC74LCX04DTR2GOSCT-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	.59	.39	.32
MC74LCX04DTR2GOSTR-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	332.50/2,500		
MC74LCX08DTR2GOSCT-ND	Low Voltage Quad 2-Input AND Gate*	14-TSSOP	.59	.39	.32
MC74LCX08DTR2GOSTR-ND	Low Voltage Quad 2-Input AND Gate*	14-TSSOP	332.50/2,500		
MC74LCX125DTGOS-ND	Low Voltage Quad Buffer*	14-TSSOP	.53	.35	.29
MC74LCX125DTR2GOSCT-ND	Quad Low Voltage Non-Inverting Buffer*	14-TSSOP	.59	.39	.32
MC74LCX125DTR2GOSTR-ND	Quad Low Voltage Non-Inverting Buffer*	14-TSSOP	332.50/2,500		
MC74LCX244DTGOS-ND	Low Voltage Octal Buffer*	20-TSSOP	.53	.39	.34
MC74LCX244DTR2GOSCT-ND	Low Voltage CMOS Octal Buffer*	20-TSSOP	.61	.43	.37
MC74LCX244DTR2GOSTR-ND	Low Voltage CMOS Octal Buffer*	20-TSSOP	427.50/2,500		
MC74LCX244DWGOS-ND	Low Voltage Octal Buffer*	20-SOIC	.84	.66	.58
MC74LCX244DWR2GOSCT-ND	Low Voltage CMOS Octal Buffer*	20-SOIC	.93	.72	.64
MC74LCX244DWR2GOSTR-ND	Low Voltage CMOS Octal Buffer*	20-SOIC	338.00/1,000		
MC74LCX245DTGOS-ND	Low Voltage Octal Transceiver*	20-TSSOP	.53	.39	.34
MC74LCX245DTR2GOSCT-ND	Low Voltage CMOS Octal Transceiver*	20-TSSOP	.61	.43	.37
MC74LCX245DTR2GOSTR-ND	Low Voltage CMOS Octal Transceiver*	20-TSSOP	427.50/2,500		
MC74LCX541DTGOS-ND	Low Voltage Octal Buffer*	20-TSSOP	.71	.53	.45
MC74LCX541DTR2GOSCT-ND	Low Voltage Octal Buffer*	20-TSSOP	.82	.58	.50
MC74LCX541DTR2GOSTR-ND	Low Voltage Octal Buffer*	20-TSSOP	577.50/2,500		
MC74LCX16244DTGOS-ND	16-Bit Low Voltage Buffer*	48-TSSOP	.89	.70	.61
MC74LCX16245DTGOS-ND	16-Bit Low Voltage Transceiver*	48-TSSOP	.89	.70	.61
MC74LCX16373DTGOS-ND	16-Bit Low Volt. Transparent Latch*	48-TSSOP	.89	.70	.61
MC74LCX16374DTGOS-ND	16-Bit Low Voltage D-Type Flip-Flop*	48-TSSOP	.89	.70	.61
MC74LVX244DTGOS-ND	Octal Bus Buffer*	20-TSSOP	.71	.53	.45
MC74LVX4245DTGOS-ND	Dual Supply Octal Translating Xcvr.*	24-TSSOP	1.66	1.34	1.21
MC74VHC4052DR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.82	.58	.50
MC74VHC4052DR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	577.50/2,500		
MC74VHC4053DTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	.82	.58	.50
MC74VHC4053DTR2GOSTR-ND	Analog Mux/Demux*	16-TSSOP	577.50/2,500		
MC74VHC1G00DFT2GOSCT-ND	Single 2-Input NAND Gate*	SOT-353	.73	.34	.24
MC74VHC1G00DFT2GOSTR-ND	Single 2-Input NAND Gate*	SOT-353	205.58/3,000		
MC74VHC1G04DFT2GOSCT-ND	Single Inverter*	SOT-353	.73	.34	.24
MC74VHC1G04DFT2GOSTR-ND	Single Inverter*	SOT-353	205.58/3,000		
MC74VHC1G04DTT1GOSCT-ND	Single Inverter*	SOT-23-5	.44	.25	.19
MC74VHC1G04DTT1GOSTR-ND	Single Inverter*	SOT-23-5	186.00/3,000		
MC74VHC1G07DFOSCT-ND	Single Non-Inverting Buffer with Open Drain	SOT-353	.42	.30	.26
MC74VHC1G07DTT1GOSCT-ND	Open Drain Non-Inverting Buffer*	SOT-23-5	.44	.25	.19
MC74VHC1G07DTT1GOSTR-ND	Open Drain Non-Inverting Buffer*	SOT-23-5	186.00/3,000		
MC74VHC1G08DFT1GOSCT-ND	Single 2-Input AND Gate*	SOT-353	.73	.34	.24
MC74VHC1G08DFT1GOSTR-ND	Single 2-Input AND Gate*	SOT-353	207.00/3,000		
MC74VHC1G08DFT2GOSCT-ND	Single 2-Input AND Gate*	SOT-353	.73	.34	.24
MC74VHC1G08DFT2GOSTR-ND	Single 2-Input AND Gate*	SOT-353	205.58/3,000		
MC74VHC1G08DTT1GOSCT-ND	Single 2-Input AND Gate*	SOT-23-5	.44	.25	.19
MC74VHC1G08DTT1GOSTR-ND	Single 2-Input AND Gate*	SOT-23-5	186.00/3,000		
MC74VHC1G14DFT1GOSCT-ND	Single Schmitt-Trigger Inverter*	SOT-353	.73	.34	.24
MC74VHC1G14DFT1GOSTR-ND	Single Schmitt-Trigger Inverter*	SOT-353	205.58/3,000		
MC74VHC1G14DTT1GOSCT-ND	Single Schmitt-Trigger Inverter*	SOT-23-5	.44	.25	.19
MC74VHC1G14DTT1GOSTR-ND	Single Schmitt-Trigger Inverter*	SOT-23-5	186.00/3,000		
MC74VHC1G32DFOSCT-ND	Single 2-Input OR Gate	SOT-353	.42	.30	.26
MC74VHC1G32DFT1GOSCT-ND	Single 2-Input OR Gate*	SOT-353	.73	.34	.24
MC74VHC1G32DFT1GOSTR-ND	Single 2-Input OR Gate*	SOT-353	207.00/3,000		
MC74VHC1G32DFT2GOSCT-ND	Single 2-Input OR Gate*	SOT-353	.73	.34	.24
MC74VHC1G32DFT2GOSTR-ND	Single 2-Input OR Gate*	SOT-353	205.58/3,000		
MC74VHC1G32DTT1GOSCT-ND	Single 2-Input OR Gate*	SOT-23-5	.44	.25	.19
MC74VHC1G32DTT1GOSTR-ND	Single 2-Input OR Gate*	SOT-23-5	186.00/3,000		
MC74VHC1G50DFOSCT-ND	High Speed CMOS Buffer	SOT-353	.40	.23	.18
MC74VHC1G50DFT2GOSCT-ND	High Speed CMOS Buffer*	SOT-353	.73	.34	.24
MC74VHC1G50DFT2GOSTR-ND	High Speed CMOS Buffer*	SOT-353	205.58/3,000		
MC74VHC1GT66DOSCT-ND	Single Supply Analog Switch	SOT-23-5	.42	.30	.26
MC74VHCT125ADR2GOSCT-ND	Quad Bus Buffer*	14-SOIC	.55	.39	.34
MC74VHCT125ADR2GOSTR-ND	Quad Bus Buffer*	14-SOIC	390.00/2,500		
MC74VHCT541ADTGOS-ND	Octal Bus Buffer*	20-TSSOP	.71	.53	.45
MC14001BCPGOS-ND	Quad 2-Input NOR Gate*	14-Dip	.66	.49	.42
MC14001BDGOS-ND	Quad 2-Input NOR Gate*	14-SOIC	.57	.38	.31
MC14001BDR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.63	.42	.34
MC14001BDR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	357.50/2,500		
MC14001UBCPGOS-ND	Quad 2-Input NOR Gate*	14-Dip	.66	.49	.42
MC14007UBCPGOS-ND	Dual Complementary Pair Plus Inverter*	14-Dip	.66	.49	.42
MC14008BCPGOS-ND	4-Bit Full Adder*	16-Dip	.79	.62	.54

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(Continued)

ON Semiconductor™ DigiReel® (Cont.) MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC14011BCPGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.66	.49	.42
MC14011BDGOS-ND	Quad 2-Input NAND Gate*	14-SOIC	.57	.38	.31
MC14011BDR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.63	.42	.34
MC14011BDR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	357.50/2,500		
MC14011UBCPGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.66	.49	.42
MC14012BCPGOS-ND	Dual 4-Input NAND Gate*	14-Dip	.66	.49	.42
MC14013BCPGOS-ND	Dual D-Type Flip-Flop*	14-Dip	.62	.48	.42
MC14013BDGOS-ND	Dual Type D Flip-Flop*	14-SOIC	.44	.33	.28
MC14013BDR2GOSCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.51	.36	.31
MC14013BDR2GOSTR-ND	Dual D-Type Flip-Flop*	14-SOIC	360.00/2,500		
MC14015BCPGOS-ND	Dual 4-Bit Static Shift Register*	16-Dip	.65	.51	.44
MC14016BCPGOS-ND	Quad Analog Switch/Mux*	14-Dip	.66	.49	.42
MC14017BCPGOS-ND	Decade Counter/Divider*	16-Dip	.66	.52	.45
MC14017BDGOS-ND	Decade Counter/Divider*	16-SOIC	.65	.48	.41
MC14017BDR2GOSCT-ND	Decade Counter/Divider*	16-SOIC	.75	.53	.46
MC14017BDR2GOSTR-ND	Decade Counter/Divider*	16-SOIC	530.00/2,500		
MC14018BCPGOS-ND	Presettable Divide-By-N Counter*	16-Dip	.79	.62	.54
MC14020BCPGOS-ND	14-Bit Binary Counter*	16-Dip	.79	.62	.54
MC14020BDGOS-ND	14-Bit Binary Counter*	16-SOIC	.65	.48	.41
MC14021BCPGOS-ND	8-Bit Static Shift Register*	16-Dip	.71	.53	.45
MC14021BDGOS-ND	8-Bit Static Shift Register*	16-SOIC	.59	.44	.38
MC14022BCPGOS-ND	Octal Counter*	16-Dip	.70	.54	.47
MC14023BCPGOS-ND	Triple 3-Input NAND Gate*	14-Dip	.66	.49	.42
MC14023BDGOS-ND	Triple 3-Input NAND Gate*	14-SOIC	.44	.33	.28
MC14024BCPGOS-ND	7-Stage Ripple Counter*	14-DIP	.62	.49	.42
MC14024BDGOS-ND	7-Stage Ripple Counter*	14-SOIC	.47	.35	.30
MC14025BCPGOS-ND	Triple 3-Input NOR Gate*	14-Dip	.66	.49	.42
MC14025BDGOS-ND	Triple 3-Input NOR Gate*	14-SOIC	.44	.33	.28
MC14027BCPGOS-ND	Dual J-K Flip-Flop*	16-Dip	.61	.48	.42
MC14027BDGOS-ND	Dual J-K Flip-Flop*	16-SOIC	.47	.35	.30
MC14028BCPGOS-ND	BCD to Decimal Decoder*	16-Dip	.62	.49	.42
MC14028BDGOS-ND	BCD-To-Decimal Decoder*	16-SOIC	.59	.44	.38
MC14029BCPGOS-ND	Binary/Decade Up/Down Counter*	16DIP	.70	.54	.47
MC14029BDR2GOSCT-ND	Binary/Decade Up/Down Counter*	16-SOIC	.82	.58	.50
MC14029BDR2GOSTR-ND	Binary/Decade Up/Down Counter*	16-SOIC	577.50/2,500		
MC14040BCPGOS-ND	12-Bit Binary Counter*	16-Dip	.71	.55	.48
MC14040BDGOS-ND	12-Bit Binary Counter*	16-SOIC	.59	.44	.38
MC14040BDR2GOSCT-ND	12-Bit Binary Counter*	16-SOIC	.68	.48	.41
MC14040BDR2GOSTR-ND	12-Bit Binary Counter*	16-SOIC	482.50/2,500		
MC14042BCPGOS-ND	Quad Transparent Latch*	16-Dip	.76	.59	.52
MC14043BCPGOS-ND	Quad R-S Latch*	16-Dip	.70	.54	.47
MC14043BDGOS-ND	Quad R-S Latch*	16-SOIC	.59	.44	.38
MC14044BCPGOS-ND	Quad R-S Latch*	16-Dip	.75	.58	.51
MC14044BDGOS-ND	Quad R-S Latch*	16-SOIC	.56	.42	.36
MC14046BCPGOS-ND	Phase Locked Loop*	16-Dip	.75	.58	.51
MC14049BCPGOS-ND	Hex Inverter/Buffer*	16-Dip	.69	.51	.44
MC14049BDGOS-ND	Hex Inverter/Buffer*	16-SOIC	.50	.37	.32
MC14049BDR2GOSCT-ND	Hex Inverter/Buffer*	16-SOIC	.58	.41	.35
MC14049BDR2GOSTR-ND	Hex Inverter/Buffer*	16-SOIC	410.00/2,500		
MC14049UBCPGOS-ND	Hex Inverter/Buffer*	16-Dip	.69	.51	.44
MC14049UBDGOS-ND	Hex Inverter/Buffer*	16-SOIC	.52	.39	.33
MC14049UBDR2GOSCT-ND	Hex Inverter/Buffer*	16-SOIC	.60	.42	.36
MC14049UBDR2GOSTR-ND	Hex Inverter/Buffer*	16-SOIC	422.50/2,500		
MC14050BCPGOS-ND	Hex Noninverting Buffer*	16-Dip	.61	.47	.41
MC14050BDGOS-ND	Noninverting Hex Buffer*	16-SOIC	.47	.35	.30
MC14050BDR2GOSCT-ND	Hex Noninverting Buffer*	16-SOIC	.55	.39	.33
MC14050BDR2GOSTR-ND	Hex Noninverting Buffer*	16-SOIC	385.00/2,500		
MC14051BCPGOS-ND	8-Channel, Analog Mux/Demux*	16-Dip	.81	.63	.55
MC14051BDR2GOSCT-ND	8-Channel, Analog Mux/Demux*	16-SOIC	.68	.48	.41
MC14051BDR2GOSTR-ND	8-Channel, Analog Mux/Demux*	16-SOIC	482.50/2,500		
MC14052BDR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.71	.55	.49
MC14052BDR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	585.00/2,500		
MC14053BCPGOS-ND	Triple Analog Mux/Demux*	16-Dip	.81	.63	.55
MC14053BDR2GOSCT-ND	Triple Analog Mux/Demux*	16-SOIC	.68	.48	.41
MC14053BDR2GOSTR-ND	Triple Analog Mux/Demux*	16-SOIC	482.50/2,500		
MC14060BCPGOS-ND	14-Bit Binary Counter/Oscillator*	16-Dip	.69	.54	.47
MC14060BDGOS-ND	14-Bit Binary Counter/Oscillator*	16-SOIC	.59	.44	.38
MC14060BDR2GOSCT-ND	14-Bit Binary Counter/Oscillator*	16-SOIC	.68	.48	.41
MC14060BDR2GOSTR-ND	14-Bit Binary Counter/Oscillator*	16-SOIC	482.50/2,500		
MC14066BCPGOS-ND	Quad Analog Switch/Quad Mux*	14-Dip	.62	.48	.42
MC14066BDGOS-ND	Quad Analog Switch/Quad Mux*	14-SOIC	.47	.35	.30
MC14066BDR2OSCT-ND	Quad Analog Switch/Quad Mux	14-SOIC	.68	.48	.42
MC14066BDR2GOSCT-ND	Quad Analog Switch/Quad Mux*	14-SOIC	.55	.39	.33
MC14066BDR2GOSTR-ND	Quad Analog Switch/Quad Mux*	14-SOIC	385.00/2,500		
MC14069UBCPGOS-ND	Hex Inverter*	14-Dip	.66	.49	.42
MC14069UBDGOS-ND	Hex Inverter*	14-SOIC	.57	.38	.31
MC14069UBDR2GOSCT-ND	Hex Inverter*	14-SOIC	.63	.42	.34
MC14069UBDR2GOSTR-ND	Hex Inverter*	14-SOIC	357.50/2,500		
MC14070BCPGOS-ND	Quad Exclusive OR Gate*	14-Dip	.66	.49	.42
MC14070BDGOS-ND	Quad Exlcusive XOR Gate*	14-SOIC	.44	.33	.28
MC14070BDR2GOSCT-ND	Quad Exclusive OR Gate*	14-SOIC	.51	.36	.31
MC14070BDR2GOSTR-ND	Quad Exclusive OR Gate*	14-SOIC	360.00/2,500		
MC14071BCPGOS-ND	Quad 2-Input OR Gate*	14-Dip	.66	.49	.42
MC14071BDGOS-ND	Quad 2-Input OR Gate*	14-SOIC	.44	.33	.28
MC14071BDR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.51	.36	.31
MC14071BDR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	360.00/2,500		
MC14073BCPGOS-ND	Triple 3-Input AND Gate*	14-Dip	.66	.49	.42
MC14073BDGOS-ND	Triple 3-Input AND Gate*	14-SOIC	.44	.33	.28
MC14076BCPGOS-ND	4-Bit D-Type Register, Tri-State Output*	16-Dip	.72	.56	.49
MC14077BCPGOS-ND	Quad Exclusive NOR Gate*	14-Dip	.66	.49	.42
MC14077BDGOS-ND	Quad Exclusive NOR Gate*	14-SOIC	.44	.33	.28
MC14081BCPGOS-ND	Quad 2-Input AND Gate*	14-Dip	.66	.49	.42
MC14081BDGOS-ND	Quad 2-Input AND Gate*	14-SOIC	.44	.33	.28
MC14081BDR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.51	.36	.31
MC14081BDR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	360.00/2,500		
MC14082BCPGOS-ND	Dual 4-Input AND Gate*	14-Dip	.66	.49	.42
MC14082BDGOS-ND	Dual 4-Input AND Gate*	14-SOIC	.44	.33	.28
MC14093BCPGOS-ND	Quad 2-Input NAND Schmitt Trigger*	14-Dip	.66	.49	.42
MC14093BDGOS-ND	Quad 2-Input NAND Schmitt-Trigger*	14-SOIC	.47	.35	.30
MC14093BDR2GOSCT-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	.55	.39	.33
MC14093BDR2GOSTR-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	385.00/2,500		
MC14094BCPGOS-ND	Tri-St. 8-Stage Shift/Store Register*	16-Dip	.65	.51	.44
MC14094BDGOS-ND	Tri-St. 8-Stage Shift/Store Register*	16-SOIC	.53	.40	.34
MC14094BDR2GOSCT-ND	Tri-State 8-Stage Shift/Store Regulator*	16-SOIC	.61	.44	.37
MC14094BDR2GOSTR-ND	Tri-State 8-Stage Shift/Store Regulator*	16-SOIC	432.50/2,500		

ON Semiconductor™ DigiReel® (Cont.) MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC14106BCPGOS-ND	Hex Schmitt Trigger*	14-Dip	.61	.47	.41
MC14106BDGOS-ND	Hex Schmitt Trigger*	14-SOIC	.47	.35	.30
MC14106BDR2GOSCT-ND	Hex Schmitt Trigger*	14-SOIC	.55	.39	.33
MC14106BDR2GOSTR-ND	Hex Schmitt Trigger*	14-SOIC	385.00/2,500		
MC14174BCPGOS-ND	Hex Type-D Flip-Flop*	16-Dip	.62	.49	.42
MC14175BCPGOS-ND	Quad Type-D Flip-Flop*	16-Dip	.65	.51	.44
MC14490DWGOS-ND	Hex Bounce Eliminator*	16-SOIC	5.77	4.64	4.23
MC14490PGOS-ND	Hex Bounce Eliminator*	16-Dip	5.77	4.64	4.23
MC14503BCPGOS-ND	Hex Non-Inverting Tri-State Buffer*	16-Dip	.77	.60	.52
MC14503BDGOS-ND	Hex Non-Inverting Tri-State Buffer*	16-SOIC	.71	.53	.45
MC14504BCPGOS-ND	Hex Level Shifter for TTL*	16-Dip	.99	.77	.68
MC14504BDGOS-ND	Hex Level Shifter for TTL*	16-SOIC	1.30	1.05	.92
MC14504BDR2GOSCT-ND	Hex Level Shifter for TTL*	16-SOIC	1.42	1.12	1.01
MC14504BDR2GOSTR-ND	Hex Level Shifter for TTL*	16-SOIC	1305.00/2,500		
MC14504BDTGOS-ND	Hex Level Shifter for TTL*	16-TSSOP	1.39	1.12	.98
MC14511BCPGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver*	16-Dip	.79	.62	.54
MC14511BDGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver*	16-SOIC	.65	.48	.41
MC14512BCPGOS-ND	8-Channel Data Selector*	16-Dip	.69	.54	.47
MC14516BCPGOS-ND	Binary Up/Down Counter*	16-Dip	.84	.66	.58
MC14516BDGOS-ND	Binary Up/Down Counter*	16-SOIC	.84	.66	.58
MC14517BCPGOS-ND	Dual 64-Bit Static Shift Register*	16-Dip	2.04	1.65	1.49
MC14518BCPGOS-ND	Dual BCD Up Counter*	16-Dip	.99	.79	.69
MC14520BCPGOS-ND	Dual BCD Up Counter*	16-Dip	.99	.79	.69
MC14521BCPGOS-ND	24-Stage Frequency Divider*	16-Dip	.99	.77	.68
MC14526BCPGOS-ND	Presettable 4-Bit Down Counters*	16-Dip	.91	.74	.64
MC14528BCPGOS-ND	Dual Monostable Multivibrator*	16-Dip	.87	.68	.59
MC14528BDGOS-ND	Dual Monostable Multivibrator*	16-SOIC	.65	.51	.44
MC14532BCPGOS-ND	8-Bit Priority Encoder*	16-Dip	.99	.77	.68
MC14532BDGOS-ND	8-Bit Priority Encoder*	16-SOIC	.89	.70	.61
MC14536BCPGOS-ND	Programmable Timer*	16-Dip	.96	.77	.67
MC14536BDWGOS-ND	Programmable Timer*	16-SOIC	.96	.77	.67
MC14536BDWR2GOSCT-ND	Programmable Timer*	16-SOIC	1.04	.82	.74
MC14536BDWR2GOSTR-ND	Programmable Timer*	16-SOIC	410.00/1,000		
MC14538BCPGOS-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-Dip	.79	.62	.54
MC14538BDGOS-ND	Dual Monostable Multivibrator*	16-SOIC	.65	.51	.44
MC14538BDR2GOSCT-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	.71	.55	.49
MC14538BDR2GOSTR-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	585.00/2,500		
MC14538BDWGOS-ND	Dual Monostable Multivibrator*	16-SOIC	.84	.66	.58
MC14538BDWR2GOSCT-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	.93	.72	.64
MC14538BDWR2GOSTR-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	338.00/1,000		
MC14541BCPGOS-ND	Programmable Timer*	14-Dip	.62	.49	.42
MC14541BDGOS-ND	Programmable Timer*	14-SOIC	.50	.37	.32
MC14541BDR2GOSCT-ND	Programmable Timer*	14-SOIC	.58	.41	.35
MC14541BDR2GOSTR-ND	Programmable Timer*	14-SOIC	410.00/2,500		
MC14543BCPGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver*	16-Dip	.75	.58	.51
MC14543BDGOS-ND	BCD-to-Seven Segment Latch/Decoder/ Driver*	16-SOIC	.59	.44	.38
MC14551BCPGOS-ND	Quad 2-Channel Mux/Demux*	16-Dip	1.93	1.56	1.40
MC14551BDGOS-ND	Quad 2-Channel Mux/Demux*	16-SOIC	1.73	1.40	1.26
MC14555BCPGOS-ND	Dual Binary to 1:4 Decoder/Demux*	16-Dip	.87	.68	.59
MC14556BCPGOS-ND	Dual Binary to 1:4 Decoder/Demux*	16-Dip	.82	.64	.56
MC14557BCPGOS-ND	1-64-Bit Variable Length Shift Register*	16-Dip	1.48	1.19	1.04
MC14569BCPGOS-ND	Programmable Divide-by-N Dual 4-Bit Binary/ BCD Counter*	16-Dip	3.10	2.50	2.28
MC14572UBCPGOS-ND	Hex Gate*	16-Dip	.72	.56	.49
MC14584BCPGOS-ND	Hex Schmitt Trigger*	14-Dip	.71	.53	.45
MC14584BDGOS-ND	Hex Schmitt Trigger*	14-SOIC	.56	.42	.36
MC14584BDR2GOSCT-ND	Hex Schmitt Trigger*	14-SOIC	.65	.46	.39
MC14584BDR2GOSTR-ND	Hex Schmitt Trigger*	14-SOIC	457.50/2,500		
MC14585BCPGOS-ND	4-Bit Magnitude Comparator*	16-Dip	.65	.51	.44
NL7SZ57DFT2GOSCT-ND	Configurable Multifunction Gate*	SC-88	.61	.35	.27
NL7SZ57DFT2GOSTR-ND	Configurable Multifunction Gate*	SC-88	261.00/3,000		
NL7SZ58DFT2GOSCT-ND	Configurable Multifunction Gate*	SC-88	.61	.35	.27
NL7SZ58DFT2GOSTR-ND	Configurable Multifunction Gate*	SC-88	261.00/3,000		
NL7SZ97DFT2GOSCT-ND	Configurable Multifunction Gate*	SC-88	.61	.35	.27
NL7SZ97DFT2GOSTR-ND	Configurable Multifunction Gate*	SC-88	261.00/3,000		
NL7SZ98DFT2GOSCT-ND	Configurable Multifunction Gate*	SC-88	.61	.35	.27
NL7SZ98DFT2GOSTR-ND	Configurable Multifunction Gate*	SC-88	261.00/3,000		
NL17SZ00DFT2GOSCT-ND	Single 2-Input NAND Gate*	SOT-353	.73	.34	.24
NL17SZ00DFT2GOSTR-ND	Single 2-Input NAND Gate*	SOT-353	205.58/3,000		
NL17SZ04DFT2OSCT-ND	Single Inverter	SOT-353	.44	.26	.21
NL17SZ04DFT2GOSCT-ND	Single Inverter*	SOT-353	.73	.34	.24
NL17SZ04DFT2GOSTR-ND	Single Inverter*	SOT-353	205.58/3,000		
NL17SZ07DFT2GOSCT-ND	Single Non-Inverting Buffer with OD Output*	SOT-353	.73	.34	.24
NL17SZ07DFT2GOSTR-ND	Single Non-Inverting Buffer with OD Output*	SOT-353	207.00/3,000		
NL17SZ08DFT2GOSCT-ND	Single 2-Input AND Gate*	SOT-353	.73	.34	.24
NL17SZ08DFT2GOSTR-ND	Single 2-Input AND Gate*	SOT-353	205.58/3,000		
NL17SZ14DFT2GOSCT-ND	Single Inverter with Schmitt Trigger*	SOT-353	.73	.34	.24
NL17SZ14DFT2GOSTR-ND	Single Inverter with Schmitt Trigger*	SOT-353	205.58/3,000		
NL17SZ16DFT2OSCT-ND	Single Input Buffer	SOT-353	.42	.30	.26
NL17SZ16DFT2GOSCT-ND	Single Input Buffer*	SOT-353	.73	.34	.24
NL17SZ16DFT2GOSTR-ND	Single Input Buffer*	SOT-353	205.58/3,000		
NL17SZ17DFT2GOSCT-ND	Single Schmitt Buffer*	SOT-353	.73	.34	.24
NL17SZ17DFT2GOSTR-ND	Single Schmitt Buffer*	SOT-353	207.00/3,000		
NL17SZ32DFT2GOSCT-ND	Single 2-Input OR Gate*	SOT-353	.73	.34	.24
NL17SZ32DFT2GOSTR-ND	Single 2-Input OR Gate*	SOT-353	205.58/3,000		
NL17SZ74USGOSCT-ND	Single D-Type Flip-Flop*	US8-8	.45	.30	.25
NL17SZ74USGOSTR-ND	Single D-Type Flip-Flop*	US8-8	306.00/3,000		
NL17SZ125DFT2GOSCT-ND	Tri-State Non-Inverting Buffer*	SOT-353	.73	.34	.24
NL17SZ125DFT2GOSTR-ND	Tri-State Non-Inverting Buffer*	SOT-353	207.00/3,000		
NL27WZ00USOSCT-ND	Dual 2-Input NAND Gate	US8-8	.76	.59	.52
NL27WZ00USGOSCT-ND	Dual 2-Input NAND Gate*	US8-8	.58	.38	.32
NL27WZ00USGOSTR-ND	Dual 2-Input NAND Gate*	US8-8	396.00/3,000		
NL27WZ04DFT2GOSCT-ND	Dual Inverter*	SOT-363	.50	.30	.24
NL27WZ04DFT2GOSTR-ND	Dual Inverter*	SOT-363	255.00/3,000		
NL27WZ04DTT1GOSCT-ND	High Performance Dual Inverter*	6-TSOP	.45	.30	.25
NL27WZ04DTT1GOSTR-ND	High Performance Dual Inverter*	6-TSOP	306.00/3,000		
NL27WZ07DFT2GOSCT-ND	Dual Buffer with OD Output*	SOT-363	.50	.30	.24
NL27WZ07DFT2GOSTR-ND	Dual Buffer with OD Output*	SOT-363	255.00/3,000		
NL27WZ08USGOSCT-ND	Dual 2-Input AND Gate*	US8-8	.58	.38	.32

* RoHS Compliant

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ON Semiconductor™ DigiReel® *(Cont.)* MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NL27WZ08USGOSTR-ND	Dual 2-Input AND Gate*	US8-8	396.00/3,000		
NL27WZ14DFT2GOSCT-ND	Dual Schmitt-Trigger Inverter*	SOT-363	.50	.30	.24
NL27WZ14DFT2GOSTR-ND	Dual Schmitt-Trigger Inverter*	SOT-363	255.00/3,000		
NL27WZ14DTT1GOSCT-ND	Dual Schmitt-Trigger Inverter*	SOT23-6	.45	.30	.25
NL27WZ14DTT1GOSTR-ND	Dual Schmitt-Trigger Inverter*	SOT23-6	306.00/3,000		
NL27WZ16DFT2GOSCT-ND	High Performance Dual Buffer*	SC-88	.50	.30	.24
NL27WZ16DFT2GOSTR-ND	High Performance Dual Buffer*	SC-88	255.00/3,000		
NL27WZ16DTT1GOSCT-ND	High Performance Dual Buffer*	6-TSOP	.45	.30	.25
NL27WZ16DTT1GOSTR-ND	High Performance Dual Buffer*	6-TSOP	306.00/3,000		
NL27WZ17DFT2GOSCT-ND	Dual Non-Inverting Schmitt-Trigger Buffer*	SOT-363	.50	.30	.24
NL27WZ17DFT2GOSTR-ND	Dual Non-Inverting Schmitt-Trigger Buffer*	SOT-363	255.00/3,000		
NL27WZ32USGOSCT-ND	Dual 2-Input OR Gate*	US8-8	.58	.38	.32
NL27WZ32USGOSTR-ND	Dual 2-Input OR Gate*	US8-8	396.00/3,000		
NL27WZ125USGOSCT-ND	Tri-State Dual Buffer*	US8	.58	.38	.32
NL37WZ04USOSCT-ND	Triple Inverter	US8-8	.64	.50	.44
NL37WZ07USOSCT-ND	Triple Buffer with OD Output	US8	.68	.53	.47
NL37WZ07USOSTR-ND	Triple Buffer with OD Output	US8	637.20/3,000		
NL37WZ16USGOSCT-ND	High Performance Triple Buffer*	US8	.56	.40	.34
NL37WZ16USGOSTR-ND	High Performance Triple Buffer*	US8	474.00/3,000		
NL37WZ16USOSCT-ND	High Performance Triple Buffer	US8	.64	.50	.44
NL37WZ17USOSCT-ND	Triple Non-Inverting Schmitt-Trigger Buffer	US8-8	.64	.50	.44
NL37WZ17USGOSCT-ND	Triple Non-Inverting Schmitt-Trigger Buffer*	US8-8	.56	.40	.34
NL37WZ17USGOSTR-ND	Triple Non-Inverting Schmitt-Trigger Buffer*	US8-8	474.00/3,000		
NLU1G14MUTCGOSCT-ND	Single Inverter, Schmitt-Trigger*	6-UDFN	.62	.44	.38
NLU1G14MUTCGOSTR-ND	Single Inverter, Schmitt-Trigger*	6-UDFN	492.00/3,000		
NLU1G32MUTCGOSCT-ND	Single 2-Input OR Gate*	6-UDFN	.62	.44	.38
NLU1G32MUTCGOSTR-ND	Single 2-Input OR Gate*	6-UDFN	492.00/3,000		
NLU1G86MUTCGOSCT-ND	Single 2-Input Exclusive OR Gate*	6-UDFN	.62	.44	.38
NLU1G86MUTCGOSTR-ND	Single 2-Input Exclusive OR Gate*	6-UDFN	492.00/3,000		
NLU1GT04MUTCGOSCT-ND	Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.72	.51	.44
NLU1GT04MUTCGOSTR-ND	Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	609.00/3,000		
NLU1GT14MUTCGOSCT-ND	Inverter, Schmitt-Trigger, CMOS Logic Level Shifter*	6-UDFN	.62	.44	.38
NLU1GT14MUTCGOSTR-ND	Inverter, Schmitt-Trigger, CMOS Logic Level Shifter*	6-UDFN	492.00/3,000		
NLU1GT50MUTCGOSCT-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.72	.51	.44
NLU1GT50MUTCGOSTR-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	609.00/3,000		
NLU1GT86MUTCGOSCT-ND	2-Input Exclusive OR Gate, CMOS Logic Level Shifter*	6-UDFN	.72	.51	.44
NLU1GT86MUTCGOSTR-ND	2-Input Exclusive OR Gate, CMOS Logic Level Shifter*	6-UDFN	609.00/3,000		
NLU1GT125MUTCGOSCT-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.62	.44	.38
NLU1GT125MUTCGOSTR-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	492.00/3,000		
NLU1GU04MUTCGPSCT-ND	Single Inverter, Unbuffered*	6-UDFN	.62	.44	.38
NLU1GU04MUTCGPSTR-ND	Single Inverter, Unbuffered*	6-UDFN	492.00/3,000		
NLU2G04MUTCGOSCT-ND	Dual Inverter*	6-UDFN	.57	.44	.39
NLU2G04MUTCGOSTR-ND	Dual Inverter*	6-UDFN	531.00/3,000		
NLU2G06MUTCGOSCT-ND	Dual Inverter, Open Drain*	6-UDFN	.66	.51	.45
NLU2G06MUTCGOSTR-ND	Dual Inverter, Open Drain*	6-UDFN	654.00/3,000		
NLU2G07MUTCGOSCT-ND	Dual Non-Inverting Buffer, OD*	6-UDFN	.57	.44	.39
NLU2G07MUTCGOSTR-ND	Dual Non-Inverting Buffer, OD*	6-UDFN	654.00/3,000		
NLU2G14MUTCGOSCT-ND	Dual Inverter, Schmitt-Trigger*	6-UDFN	.57	.44	.39
NLU2G14MUTCGOSTR-ND	Dual Inverter, Schmitt-Trigger*	6-UDFN	531.00/3,000		
NLU2G16MUTCGOSCT-ND	Dual Non-Inverting Buffer*	6-UDFN	.57	.44	.39
NLU2G16MUTCGOSTR-ND	Dual Non-Inverting Buffer*	6-UDFN	531.00/3,000		
NLU2G17MUTCGOSCT-ND	Dual Non-Inverting Buffer, Schmitt-Trigger*	6-UDFN	.57	.44	.39
NLU2G17MUTCGOSTR-ND	Dual Non-Inverting Buffer, Schmitt-Trigger*	6-UDFN	531.00/3,000		
NLU2GU04MUTCGOSCT-ND	Dual Inverter, Unbuffered*	6-UDFN	.57	.44	.39
NLU2GU04MUTCGOSTR-ND	Dual Inverter, Unbuffered*	6-UDFN	531.00/3,000		

ON Semiconductor™ DigiReel® MOTOR CONTROL

RoHS Compliant

On Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
AMIS30624C6244RG	766-1001-1-ND	I^{2}C Micro-stepping Motor Driver	20-SOIC	11.55	9.79	9.04
AMIS30624C6244RG	766-1001-2-ND	I^{2}C Micro-stepping Motor Driver	20-SOIC	10015.50/1,500		
AMIS30624C6245RG	766-1002-1-ND	I^{2}C Micro-stepping Motor Driver	32-NQFP	12.05	10.22	9.44
AMIS30624C6245RG	766-1002-2-ND	I^{2}C Micro-stepping Motor Driver	32-NQFP	16702.50/2,500		
MC33033DWG	MC33033DWGOS-ND	Brushless DC Motor Controller	20-SOIC	4.28	3.45	3.14
MC33035DWG	MC33035DWGOS-ND	Brushless DC Motor Controller	24-SOIC	4.40	3.54	3.22
TDA1085CG	TDA1085CGOS-ND	Universal Motor Speed Controller*	16-Dip	2.08	1.68	1.51

ON Semiconductor™ DigiReel® OFF LINE REGULATORS/ CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC33363ADWGOS-ND	High Voltage Switching Regulator	16-SOIC	3.53	2.84	2.59
MC34060APGOS-ND	Fixed Freq., PWM, Volt. Mode Single Ended Cont.	14-Dip	1.56	1.25	1.10
MC34262DGOS-ND	Power Factor Controller	8-SOIC	1.12	.90	.79
MC34262PGOS-ND	Power Factor Controller	8-Dip	1.12	.90	.79
NCP1014AP100GOS-ND	Self-Supplied Monolithic Switcher for Offline SMPS	8-Dip	1.42	1.14	1.00
NCP1200P100GOS-ND	PWM Current Mode Controller	8-Dip	1.17	.94	.83
UC2842BD1R2GOSCT-ND	High Performance Current Mode Controller	8-SOIC	.86	.67	.59
UC2842BD1R2GOSTR-ND	High Performance Current Mode Controller	8-SOIC	705.00/2,500		
UC2843BD1R2GOSCT-ND	High Performance Current Mode Controller	8-SOIC	.86	.67	.59
UC2843BD1R2GOSTR-ND	High Performance Current Mode Controller	8-SOIC	705.00/2,500		
UC3842BNGOS-ND	High Performance Current Mode Controller	8-Dip	.71	.56	.49
UC3843BNGOS-ND	High Performance Current Mode Controller	8-Dip	.71	.56	.49
UC3844BNGOS-ND	High Performance Current Mode Controller	8-Dip	.71	.56	.49
UC3845BNGOS-ND	High Performance Current Mode Controller	8-Dip	.71	.56	.49

ON Semiconductor™ DigiReel® POWER CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CS5211EDR14GOSCT-ND	Low Voltage Synchronous Buck Controller*	14-SOIC	2.56	1.98	1.80
MC33039DGOS-ND	Closed Loop Brushless Motor Adapter*	8-SOIC	1.65	1.32	1.16
MC33151PGOS-ND	High Speed Dual MOSFET Driver*	8-Dip	1.63	1.32	1.19
MC33152DGOS-ND	High Speed Dual MOSFET Driver*	8-SOIC	1.58	1.27	1.11
MC33152PGOS-ND	High Speed Dual MOSFET Driver*	8-Dip	1.58	1.27	1.11

ON Semiconductor™ DigiReel® *(Cont.)* POWER CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC33153DGOS-ND	Single IGBT Gate Driver*	8-SOIC	2.29	1.85	1.67
MC33153PGOS-ND	Single IGBT Gate Driver*	8-Dip	2.29	1.85	1.67
MC33262PGOS-ND	Power Factor Controller*	8-Dip	1.15	.92	.81
MC34151DGOS-ND	1.5A High Speed Dual Inverting MOSFET Driver*	8-SOIC	1.63	1.31	1.14
MC34151PGOS-ND	1.5A High Speed Dual Inverting MOSFET Driver*	8-Dip	1.63	1.31	1.14
MC34152DGOS-ND	1.5A HS Dual Non-Inverting MOSFET Driver*	8-SOIC	1.53	1.23	1.08
NCP360SNAET1GOSCT-ND	USB Positive Overvoltage Protection Controller*	SOT23-5	.79	.62	.54
NCP360SNAET1GOSTR-ND	USB Positive Overvoltage Protection Controller*	SOT23-5	783.00/3,000		
NCP360SNT1GOSCT-ND	USB Positive Overvoltage Protection Controller*	SOT23-5	.79	.62	.54
NCP360SNT1GOSTR-ND	USB Positive Overvoltage Protection Controller*	SOT23-5	783.00/3,000		
NCP361SNT1GOSCT-ND	USB Positive Overvoltage Protection Controller*	SOT23-5	.68	.53	.47
NCP1015AP065GOS-ND	Self-Supplied Mono Switcher*	7-Dip	1.50	1.20	1.05
NCP1015AP100GOS-ND	Self-Supplied Mono Switcher*	7-Dip	1.50	1.20	1.05
NCP1606ADR2GOSCT-ND	Power Factor Controller*	8-SOIC	.98	.78	.70
NCP1606BDR2GOSCT-ND	Power Factor Controller*	8-SOIC	.98	.78	.70
NCP1652DR2GOSCT-ND	Power Factor Controller*	16-SOIC	2.85	2.33	2.09
NCP1652DWR2GOSCT-ND	Power Factor Controller*	20-SOIC	2.85	2.33	2.09
NCP1654BD65R2GOSCT-ND	Power Factor Controller*	8-SOIC	1.81	1.40	1.27
NCP4302ADR2GOSCT-ND	Synchronous Flyback Controller*	8-SOIC	2.17	1.68	1.52
NCP4302ADR2GOSTR-ND	Synchronous Flyback Controller*	8-SOIC	2092.50/2,500		
NCP5104DR2GOSCT-ND	High Voltage, Half Bridge Driver*	8-SOIC	2.45	1.89	1.72
NCP5104DR2GOSTR-ND	High Voltage, Half Bridge Driver*	8-SOIC	2362.50/2,500		
NCP5104PGOS-ND	High Voltage, Half Bridge Driver*	8-Dip	2.43	1.96	1.77
NCP5106ADR2GOSCT-ND	High Voltage, High and Low Side Driver*	8-SOIC	2.45	1.89	1.72
NCP5106ADR2GOSTR-ND	High Voltage, High and Low Side Driver*	8-SOIC	2362.50/2,500		
NCP5106BDR2GOSCT-ND	High Voltage, High and Low Side Driver*	8-SOIC	2.11	1.63	1.48
NCP5106BPGOS-ND	High Voltage, High and Low Side Driver*	8-Dip	2.98	2.40	2.16
TL431ACDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.76	.59	.52
TL431ACDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.62	.41	.34
TL431ACDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	352.50/2,500		
TL431ACLPRAGOSCT-ND	2.5V, Programmable Precision Reference*	TO-92	.53	.35	.29
TL431ACLPRAGOSTR-ND	2.5V, Programmable Precision Reference*	TO-92	240.00/2,000		
TL431AIDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.65	.43	.35
TL431AIDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	370.00/2,500		
TL431CDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.53	.35	.29
TL431CDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	300.00/2,500		
TL431CLPGOS-ND	2.5V, Programmable Precision Reference*	TO-92	.42	.29	.23
TL431IDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.53	.35	.29

ON Semiconductor™ DigiReel® POWER LINEAR

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CS8101YDR8GOSCT-ND	Micropower 5V, 100mA LDO Regulator	8-SOIC	2.25	1.74	1.58
CS8101YDR8GOSTR-ND	Micropower 5V, 100mA LDO Regulator	8-SOIC	2167.50/2,500		
CS8190ENF16GOS-ND	Air-Core Tach/Speedo Driver	16-Dip	4.40	3.54	3.22
LM317BD2TGOS-ND	1.5A, Adj., Positive Volatage Regulator	D2-PAK	1.09	.87	.77
LM317D2TGOS-ND	1.5A, Adj., Positive Volatage Regulator	D2-PAK	.94	.74	.64
LM317LZRAGOSCT-ND	100mA, Adj., Positive Volatage Regulator	TO-92	.58	.41	.35
LM317LZRAGOSTR-ND	100mA, Adj., Positive Volatage Regulator	TO-92	328.00/2,000		
LM317MBDTRKGOSCT-ND	500mA, Adj., Positive Volatage Regulator	DPAK	.97	.77	.69
LM317MBDTRKGOSTR-ND	500mA, Adj., Positive Volatage Regulator	DPAK	892.50/2,500		
LM317MBSTT3GOSCT-ND	500mA, Adj., Positive Volatage Reg.	SOT-223	1.04	.82	.74
LM317MBSTT3GOSTR-ND	500mA, Adj., Positive Volatage Reg.	SOT-223	1532.00/4,000		
LM317MBTGOS-ND	500mA, Adj., Positive Volatage Reg.	TO-220AB	.79	.62	.54
LM317MDTGOS-ND	500mA, Adj., Positive Volatage Regulator	DPAK	.65	.51	.44
LM337BD2TGOS-ND	1.5A, Adj., Negative Volatage Regulator	D2-PAK	1.52	1.22	1.07
LM337D2TGOS-ND	1.5A, Adj., Negative Volatage Regulator	D2-PAK	1.39	1.12	.98
NCP606MN15T2GOSCT-ND	1.5V, 500mA LDO Regulator	6-DFN	1.18	.93	.84
NCP606MN15T2GOSTR-ND	1.5V, 500mA LDO Regulator	6-DFN	1275.00/3,000		
NCP606MN33T2GOSCT-ND	3.3V, 500mA LDO Regulator	6-DFN	1.37	1.08	.98
NCP606MN33T2GOSTR-ND	3.3V, 500mA LDO Regulator	6-DFN	1512.00/3,000		
NCP606MN50T2GOSCT-ND	5V, 500mA LDO Regulator	6-DFN	1.18	.93	.84
NCP606MNADJT2GOSCT-ND	ADJ, 500mA LDO Regulator	6-DFN	1.37	1.08	.98
NCP606MNADJT2GOSTR-ND	ADJ, 500mA LDO Regulator	6-DFN	1512.00/3,000		
NCP698SQ15T1GOSCT-ND	1.5V, 150mA Ultra LDO Regulator	SC-82AB	.62	.41	.34
NCP698SQ15T1GOSTR-ND	1.5V, 150mA Ultra LDO Regulator	SC-82AB	423.00/3,000		
NCP698SQ33T1GOSCT-ND	3.3V, 150mA Ultra LDO Regulator	SC-82AB	.62	.41	.34
NCP698SQ33T1GOSTR-ND	3.3V, 150mA Ultra LDO Regulator	SC-82AB	423.00/3,000		
NCP698SQ50T1GOSCT-ND	5V, 150mA Ultra LDO Regulator	SC-82AB	.62	.41	.34
NCP698SQ50T1GOSTR-ND	5V, 150mA Ultra LDO Regulator	SC-82AB	423.00/3,000		
NCP3985SN18T1GOSCT-ND	1.8V, 150mA Ultra LDO Regulator	SOT23-5	.68	.53	.47
NCP3985SN18T1GOSTR-ND	1.8V, 150mA Ultra LDO Regulator	SOT23-5	675.00/3,000		
NCP3985SN28T1GOSCT-ND	2.8V, 150mA Ultra LDO Regulator	SOT23-5	.68	.53	.47
NCP3985SN28T1GOSTR-ND	2.8V, 150mA Ultra LDO Regulator	SOT23-5	675.00/3,000		
NCP3985SN30T1GOSCT-ND	3.0V, 150mA Ultra LDO Regulator	SOT23-5	.68	.53	.47
NCP3985SN30T1GOSTR-ND	3.0V, 150mA Ultra LDO Regulator	SOT23-5	675.00/3,000		

ON Semiconductor™ DigiReel® POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADP3120AJCPZ-RLCT-ND	Dual Bootstrapped 12V MOSFET Driver*	8-DFN	.64	.50	.44
ADP3120AJCPZ-RLTR-ND	Dual Bootstrapped 12V MOSFET Driver*	8-DFN	1005.00/5,000		
ADP3120AJRZ-ND	Dual Bootstrapped 12V MOSFET Driver*	8-SOIC	.66	.52	.45
ADP3162JRZREEL7CT-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	3.99	3.26	2.93
ADP3162JRZREEL7TR-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	1817.00/1,000		
ADP3164JRUZREELCT-ND	5-Bit Prog. 4-Phase Sync. Buck Controller*	20-TSSOP	4.20	3.43	3.08
ADP3178JRZREEL7CT-ND	4-Bit Programmable Sync. Buck Controller*	16-SOIC	3.11	2.54	2.28
ADP3178JRZREEL7TR-ND	4-Bit Programmable Sync. Buck Controller*	16-SOIC	1416.00/1,000		
ADP3419JRM-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver	10-MSOP	2.22	1.71	1.56
ADP3419JRMZ-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver*	10-MSOP	.92	.72	.63
ADP3419JRMZ-REELTR-ND	Dual Bootstrapped, High Voltage MOSFET Driver*	10-MSOP	915.00/3,000		
LM285D-1.2GOS-ND	1.235V Micropwr Volt. Regulator Diode*	8-SOIC	.79	.62	.54
LM285D-2.5GOS-ND	2.5V, Micropower Volt. Regulator Diode*	8-SOIC	.79	.62	.54
LM285D-2.5R2GOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	.87	.68	.60
LM285D-2.5R2GOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	720.00/2,500		
LM285Z-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.82	.64	.56
LM285Z-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.79	.62	.54

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

ON Semiconductor™ DigiReel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM285Z-2.5RAGOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.87	.68	.60
LM285Z-2.5RAGOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	576.00/2,000		
LM385BD-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	.77	.60	.52
LM385BD-2.5GOS-ND	2.5V, Micropower Volt. Regulator Diode*	8-SOIC	.77	.60	.52
LM385BD-2.5R2GOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	.84	.66	.58
LM385BD-2.5R2GOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	695.00/2,500		
LM385BZ-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.75	.58	.51
LM385BZ-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.75	.58	.51
LM385D-2.5GOS-ND	2.5V, Micropower Volt. Regulator Diode*	8-SOIC	.75	.58	.51
LM385D-1.2R2GOSCT-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	.82	.64	.56
LM385D-1.2R2GOSTR-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	675.00/2,500		
LM385Z-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.70	.54	.47
LM385Z-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.70	.54	.47
MAX708SESA-TGOSCT-ND	2.93V, MPU Supervisor Circuit*	8-SOIC	.93	.72	.63
MAX708SESA-TGOSTR-ND	2.93V, MPU Supervisor Circuit*	8-SOIC	765.00/2,500		
MAX809JTRGOSCT-ND	4V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX809JTRGOSTR-ND	4V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX809LTRGOSCT-ND	4.63V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX809LTRGOSTR-ND	4.63V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX809MTRGOSCT-ND	4.38V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX809MTRGOSTR-ND	4.38V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX809RTRGOSCT-ND	2.63V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX809RTRGOSTR-ND	2.63V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX809STRGOSCT-ND	2.93V Microprocessor Reset Monitor*	SOT-23	.62	.44	.37
MAX809STRGOSTR-ND	2.93V Microprocessor Reset Monitor*	SOT-23	525.00/3,000		
MAX809TTRGOSCT-ND	3.08V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX809TTRGOSTR-ND	3.08V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX810LTRGOSCT-ND	4.63V, Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX810LTRGOSTR-ND	4.63V, Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX810MTRGOSCT-ND	4.38V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX810MTRGOSTR-ND	4.38V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MAX810TTRGOSCT-ND	3.08V Microprocessor Reset Monitor*	SOT-23	.64	.44	.38
MAX810TTRGOSTR-ND	3.08V Microprocessor Reset Monitor*	SOT-23	537.00/3,000		
MC33064D-5GOS-ND	Undervoltage Sensing Circuit*	8-SOIC	.75	.58	.51
MC33064D-5R2GOSCT-ND	Undervoltage Sensing Circuit*	8-SOIC	.82	.64	.56
MC33064D-5R2GOSTR-ND	Undervoltage Sensing Circuit*	8-SOIC	675.00/2,500		
MC33064P-5GOS-ND	Undervoltage Sensing Circuit*	TO-92	.75	.58	.51
MC33064P-5RAGOSCT-ND	Undervoltage Sensing Circuit*	TO-92	.82	.64	.56
MC33064P-5RAGOSTR-ND	Undervoltage Sensing Circuit*	TO-92	540.00/2,000		
MC33064P-5RPGOSCT-ND	Undervoltage Sensing Circuit*	TO-92	.82	.64	.56
MC33064P-5RPGOSTB-ND	Undervoltage Sensing Circuit*	TO-92	540.27/2,000		
MC33161DGOS-ND	Universal Voltage Monitor*	8-SOIC	1.16	.93	.81
MC33161DMR2GOSCT-ND	Universal Voltage Monitor*	8-Micro	1.25	.99	.90
MC33161DMR2GOSTR-ND	Universal Voltage Monitor*	8-Micro	1848.00/4,000		
MC33161DR2GOSCT-ND	Universal Voltage Monitor*	8-SOIC	1.25	.99	.90
MC33161DR2GOSTR-ND	Universal Voltage Monitor*	8-SOIC	1155.00/2,500		
MC33161PGOS-ND	Universal Voltage Monitor*	8-Dip	1.16	.93	.81
MC33164D-3GOS-ND	Micropwr Undervoltage Sensing Circuits*	8-SOIC	.79	.62	.54
MC33164D-5GOS-ND	Micropwr Undervoltage Sensing Circuits*	8-SOIC	.79	.62	.54
MC33164P-5GOS-ND	Micropwr Undervoltage Sensing Circuits*	TO-92	.79	.62	.54
MC34064D-005GOS-ND	Undervoltage Sensing Circuit*	8-SOIC	.75	.58	.51
MC34064D-5GOS-ND	Undervoltage Sensing Circuit*	8-SOIC	.75	.58	.51
MC34064D-5R2GOSCT-ND	Undervoltage Sensing Circuit*	8-SOIC	.82	.64	.56
MC34064D-5R2GOSTR-ND	Undervoltage Sensing Circuit*	8-SOIC	675.00/2,500		
MC34064P-5GOS-ND	Undervoltage Sensing Circuit*	TO-92	.75	.58	.51
MC34064P-5RAGOSCT-ND	Undervoltage Sensing Circuit*	TO-92	.82	.64	.56
MC34064P-5RAGOSTR-ND	Undervoltage Sensing Circuit*	TO-92	540.00/2,000		
MC34152PGOS-ND	High Speed Dual MOSFET Driver*	8-Dip	1.53	1.23	1.08
MC34161DGOS-ND	Universal Voltage Monitor*	8-SOIC	1.16	.93	.81
MC34161DR2GOSCT-ND	Universal Voltage Monitor*	8-SOIC	1.25	.99	.90
MC34161DR2GOSTR-ND	Universal Voltage Monitor*	8-SOIC	1155.00/2,500		
MC34164D-3GOS-ND	Micropwr Undervoltage Sensing Circuit*	8-SOIC	.70	.62	.54
MC34164D-5GOS-ND	Micropwr Undervoltage Sensing Circuit*	8-SOIC	.67	.50	.43
MC34164D-5R2GOSCT-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	.87	.68	.60
MC34164D-5R2GOSTR-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	720.00/2,500		
MC34164P-005GOS-ND	Micropwr Undervolt. Sensing Circuit*	TO-226AA	.79	.62	.54
MC34164P-005OSTR-ND	5V MPU Undervoltage Sensing Circuit	TO-226AA	1044.00/2,000		
MDC3105DMT1GOSCT-ND	6V Integrated Relay/Inductive Load Driver*	SC-74	.77	.54	.47
MDC3105DMT1GOSTR-ND	6V Integrated Relay/Inductive Load Driver*	SC-74	651.00/3,000		
NCP301LSN27T1GOSCT-ND	2.7V Voltage Detector*	SOT-23-5	.64	.45	.39
NCP301LSN27T1GOSTR-ND	2.7V Voltage Detector*	SOT-23-5	537.00/3,000		
NCP301LSN45T1GOSCT-ND	4.5V Voltage Detector*	SOT-23-5	.64	.45	.39
NCP301LSN45T1GOSTR-ND	4.5V Voltage Detector*	SOT-23-5	537.00/3,000		
NCP302LSN30T1GOSCT-ND	3.0V Voltage Detector*	SOT-23-5	.64	.45	.39
NCP302LSN30T1GOSTR-ND	3.0V Voltage Detector*	SOT-23-5	537.00/3,000		
NCP303LSN27T1GOSCT-ND	2.7V Voltage Detector*	SOT-23-5	.64	.45	.39
NCP303LSN27T1GOSTR-ND	2.7V Voltage Detector*	SOT-23-5	537.00/3,000		
NCP303LSN30T1GOSCT-ND	3.0V, Voltage Detector*	SOT-23-5	.64	.45	.39
NCP303LSN30T1GOSTR-ND	3.0V, Voltage Detector*	SOT-23-5	537.00/3,000		
NCP303LSN45T1GOSCT-ND	4.5V, Voltage Detector*	SOT-23-5	.64	.45	.39
NCP303LSN45T1GOSTR-ND	4.5V, Voltage Detector*	SOT-23-5	537.00/3,000		
NCP803SN293T1GOSCT-ND	2.93V Microprocessor Reset Monitor*	SOT-23	.75	.53	.46
NCP803SN293T1GOSTR-ND	2.93V Microprocessor Reset Monitor*	SOT-23	636.00/3,000		
NCP803SN308T1GOSCT-ND	3.08V Microprocessor Reset Monitor*	SOT-23	.75	.53	.46
NCP803SN308T1GOSTR-ND	3.08V Microprocessor Reset Monitor*	SOT-23	636.00/3,000		
NCP803SN463T1GOSCT-ND	4.63V Microprocessor Reset Monitor*	SOT-23	.75	.53	.46
NCP803SN463T1GOSTR-ND	4.63V Microprocessor Reset Monitor*	SOT-23	636.00/3,000		
NCP1421DMR2GOSCT-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter*	8-Micro	1.93	1.49	1.35
NCP1421DMR2GOSTR-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter*	8-Micro	2972.00/4,000		
NCP1521BSNT1GOSCT-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	SOT23-5	1.22	.96	.87
NCP1521BSNT1GOSTR-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	SOT23-5	1344.00/3,000		
NCP5008DMR2OSCT-ND	Backlight LED Boost Driver	10-Micro	1.96	1.52	1.38
NCP5810DMUTXGOSCT-ND	1W, Dual Output AMOLED Driver Supply*	12-UDFN	2.41	1.87	1.69
TL431ACDGOS-ND	Programmable Precision Reference*	8-SOIC	.56	.37	.30
TL431ACLPGOS-ND	Programmable Precision Reference*	TO-92	.47	.32	.26
TL431AIDGOS-ND	Programmable Precision Reference*	8-SOIC	.58	.39	.32
TL431AILPGOS-ND	Programmable Precision Reference*	TO-92	.58	.39	.32
TL431BIDGOS-ND	Programmable Precision Reference*	8-SOIC	.66	.49	.42
TL431CDGOS-ND	Programmable Precision Reference*	8-SOIC	.47	.32	.26
TL431IDGOS-ND	Programmable Precision Reference*	8-SOIC	.54	.37	.30
TL431ILPGOS-ND	Programmable Precision Reference*	TO-92	.54	.37	.30
UAA2016PGOS-ND	Zero Voltage Switch Power Controller*	8-Dip	1.58	1.28	1.15

ON Semiconductor™ DigiReel® SENSOR/SIGNAL CONDITIONING

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Temperature					
ADT7461AARMZ-ND	Temp. Monitor with Series Resistance Cancellation*	8-MSOP	5.57	4.48	4.08
ADT7461ARZ-ND	Temperature Monitor +/-1C Dual*	8-SOIC	4.31	3.47	3.16
ADT7462ACPZ-5RL7CT-ND	Flexible Temp./Voltage Monitor/System Fan Controller*	32-LFCSP	8.22	6.82	6.20
ADT7462ACPZ-5RL7TR-ND	Flexible Temp./Voltage Monitor/System Fan Controller*	32-LFCSP	2402.50/500		
ADT7483AARQZ-ND	2-Ch., Temp. Sensor and Over Temp. Alarm*	16-QSOP	6.88	5.64	5.09

ON Semiconductor™ DigiReel® SIGNAL/ INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM201ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.77	.60	.52
LM211DGOS-ND	Single Comparator*	8-SOIC	.65	.48	.41
LM211DR2GOSCT-ND	Single Comparator*	8-SOIC	.75	.53	.46
LM211DR2GOSTR-ND	Single Comparator*	8-SOIC	530.00/2,500		
LM224DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.51	.34	.28
LM224DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.57	.38	.31
LM224DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	322.50/2,500		
LM224NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.65	.48	.41
LM239DGOS-ND	Single Supply Quad Comparator*	14-SOIC	.51	.34	.28
LM239DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.57	.38	.31
LM239DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	322.50/2,500		
LM239NGOS-ND	Single Supply Quad Comparator*	14-Dip	.65	.48	.41
LM258DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.48	.33	.27
LM258DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.54	.36	.30
LM258DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	307.50/2,500		
LM293DGOS-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.48	.33	.27
LM293DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.54	.36	.30
LM293DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	307.50/2,500		
LM301ADGOS-ND	Non Compensated Single Op Amp*	8-SOIC	.62	.49	.42
LM301ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.77	.60	.52
LM311DGOS-ND	Single Comparator*	8-SOIC	.53	.40	.34
LM311DR2GOSCT-ND	Single Comparator*	8-SOIC	.61	.44	.37
LM311DR2GOSTR-ND	Single Comparator*	8-SOIC	432.50/2,500		
LM324ADGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.44	.33	.28
LM324ADR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.51	.36	.31
LM324ADR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	360.00/2,500		
LM324ANGOS-ND	Single Supply Quad Op Amp*	14-Dip	.68	.51	.44
LM324DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.48	.33	.27
LM324DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.54	.36	.30
LM324DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	307.50/2,500		
LM324NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.62	.46	.39
LM339DGOS-ND	Single Supply Quad Comparator*	14-SOIC	.48	.33	.27
LM339DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.54	.36	.30
LM339DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	307.50/2,500		
LM339NGOS-ND	Single Supply Quad Comparator*	14-Dip	.62	.46	.39
LM358DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.44	.30	.24
LM358DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.50	.33	.27
LM358DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	282.50/2,500		
LM358NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.49	.36	.31
LM393DGOS-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.44	.30	.24
LM393DMR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-Micro	.63	.42	.34
LM393DMR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-Micro	572.00/4,000		
LM393DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.50	.33	.27
LM393DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	282.50/2,500		
LM393NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.49	.36	.31
LM833DR2GOSCT-ND	Low Noise, Audio Dual Op Amp*	8-SOIC	.79	.55	.48
LM833DR2GOSTR-ND	Low Noise, Audio Dual Op Amp*	8-SOIC	552.50/2,500		
LM833NGOS-ND	Low Noise, Audio Dual Op Amp*	8-Dip	.66	.51	.45
LM2901DGOS-ND	Single Supply Quad Comparator*	14-SOIC	.51	.34	.28
LM2901DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.57	.38	.31
LM2901DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	322.50/2,500		
LM2901NGOS-ND	Single Supply Quad Comparator*	14-Dip	.62	.46	.39
LM2902DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.51	.34	.28
LM2902DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.57	.38	.31
LM2902DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	322.50/2,500		
LM2902NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.64	.47	.41
LM2903DGOS-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.48	.33	.27
LM2903DMR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-Micro	.51	.36	.31
LM2903DMR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-Micro	576.00/4,000		
LM2903DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.54	.36	.30
LM2903DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	307.50/2,500		
LM2903NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.49	.36	.31
LM2904DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.48	.33	.27
LM2904DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.54	.36	.30
LM2904DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	307.50/2,500		
LM2904NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.49	.36	.31
MC26LS30DGOS-ND	Dual Differential EIA-422-A/Quad Single-Ended EIA-423-A Line Drivers*	16-SOIC	1.69	1.37	1.23
MC1413BDGOS-ND	High Volt. Darlington Transistor Array*	16-SOIC	.71	.53	.45
MC1413BDR2GOSCT-ND	High Voltage Darlington Transistor Array*	16-SOIC	.82	.58	.50
MC1413BDR2GOSTR-ND	High Voltage Darlington Transistor Array*	16-SOIC	577.50/2,500		
MC1413BPGOS-ND	High Voltage Darlington Transistor Array*	16-Dip	.77	.60	.52
MC1413DGOS-ND	High Voltage Darlington Transistor Array*	16-SOIC	.65	.48	.41
MC1413DR2GOSCT-ND	High Voltage Darlington Transistor Array*	16-SOIC	.75	.53	.46
MC1413DR2GOSTR-ND	High Voltage Darlington Transistor Array*	16-SOIC	530.00/2,500		
MC1413PGOS-ND	High Voltage Darlington Transistor Array*	16-Dip	.66	.51	.45
MC1455BDR2GOSCT-ND	Monolithic Timing Circuit*	8-SOIC	.82	.58	.50
MC1455BDR2GOSTR-ND	Monolithic Timing Circuit*	8-SOIC	577.50/2,500		
MC1455BP1GOS-ND	Monolithic Timing Circuit*	8-Dip	.71	.56	.48
MC1455DGOS-ND	Monolithic Timing Circuit*	8-SOIC	.59	.44	.38
MC1455P1GOS-ND	Monolithic Timing Circuit*	8-Dip	.66	.51	.45
MC1488DGOS-ND	Quad Line EIA-232D Driver*	14-SOIC	.59	.44	.38
MC1488DR2GOSCT-ND	Quad Line EIA-232D Driver*	14-SOIC	.68	.48	.41
MC1488DR2GOSTR-ND	Quad Line EIA-232D Driver*	14-SOIC	482.50/2,500		
MC1488PGOS-ND	Quad Line EIA-232D Driver*	14-Dip	.77	.60	.52
MC1489ADGOS-ND	Quad Line EIA-232D Receiver*	14-SOIC	.67	.50	.43
MC1489APGOS-ND	Quad Line EIA-232D Receiver*	14-Dip	.79	.62	.54
MC1489DGOS-ND	Quad Line EIA-232D Receiver*	14-SOIC	.59	.44	.38
MC1489PGOS-ND	Quad Line EIA-232D Receiver*	14-Dip	.77	.60	.52
MC1496DGOS-ND	Balanced Modulator/Demodulator*	14-SOIC	.99	.77	.68
MC1496DR2GOSCT-ND	Balanced Modulator/Demodulator*	14-SOIC	1.09	.85	.75
MC1496DR2GOSTR-ND	Balanced Modulator/Demodulator*	14-SOIC	900.00/2,500		
MC1496PGOS-ND	Balanced Modulator/Demodulator*	14-Dip	.96	.77	.67

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

ON Semiconductor™ DigiReel® (Cont.) SIGNAL/ INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC3302PGOS-ND	Single Supply Quad Comparators*	14-Dip	.77	.60	.52
MC3303PGOS-ND	Single Supply Quad Op Amp*	14-Dip	.77	.60	.52
MC3403DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.82	.58	.50
MC3403DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	577.50/2,500		
MC3403PGOS-ND	Single Supply Quad Op Amp*	14-Dip	.77	.60	.52
MC14553BCPGOS-ND	3-Digit BCD Counter*	16-Dip	2.50	2.02	1.82
MC33035DWR2GOSCT-ND	Brushless DC Motor Controller*	24-SOIC	4.71	3.85	3.46
MC33035DWR2GOSTR-ND	Brushless DC Motor Controller*	24-SOIC	2198.00/1,000		
MC33071ADGOS-ND	Single Supply Op Amp*	8-SOIC	1.12	.90	.79
MC33072ADGOS-ND	Single Supply Dual Op Amp*	8-SOIC	1.02	.82	.72
MC33072ADR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	1.10	.87	.79
MC33072ADR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	1015.00/2,500		
MC33072APGOS-ND	Single Supply Dual Op Amp*	8-Dip	1.12	.90	.79
MC33072DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.98	.79	.69
MC33072DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	1.06	.84	.76
MC33072DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	980.00/2,500		
MC33072PGOS-ND	Single Supply Dual Op Amp*	8-Dip	1.09	.87	.76
MC33074ADGOS-ND	Single Supply Quad Op Amp*	14-SOIC	1.58	1.26	1.11
MC33074ADR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	1.71	1.35	1.22
MC33074ADR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	1575.00/2,500		
MC33074APGOS-ND	Single Supply Quad Op Amp*	14-Dip	1.58	1.26	1.11
MC33074DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	1.54	1.24	1.08
MC33074DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	1.67	1.32	1.19
MC33074DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	1540.00/2,500		
MC33074PGOS-ND	Single Supply Quad Op Amp*	14-Dip	1.54	1.24	1.08
MC33078DGOS-ND	Low Noise Dual Op Amp*	8-SOIC	.95	.76	.67
MC33078PGOS-ND	Low Noise Dual Op Amp*	8-Dip	1.30	1.04	.91
MC33078DR2GOSCT-ND	Low Noise Dual Op Amp*	8-SOIC	1.03	.81	.73
MC33078DR2GOSTR-ND	Low Noise Dual Op Amp*	8-SOIC	945.00/2,500		
MC33079DGOS-ND	Low Noise Quad Op Amp*	14-SOIC	1.05	.84	.74
MC33079DR2GOSCT-ND	Low Noise Quad Op Amp*	14-SOIC	1.14	.90	.81
MC33079DR2GOSTR-ND	Low Noise Quad Op Amp*	14-SOIC	1050.00/2,500		
MC33079PGOS-ND	Low Noise Quad Op Amp*	14-Dip	1.44	1.15	1.01
MC33171DGOS-ND	Single Supply Low Power Op Amp*	8-SOIC	1.09	.87	.76
MC33171DR2GOSCT-ND	Single Supply Low Power Op Amp*	8-SOIC	1.18	.93	.84
MC33171DR2GOSTR-ND	Single Supply Low Power Op Amp*	8-SOIC	1085.00/2,500		
MC33171PGOS-ND	Single Supply Low Power Op Amp*	8-Dip	1.09	.87	.76
MC33172DGOS-ND	Single Supply Low Power Dual Op Amp*	8-SOIC	1.05	.84	.74
MC33172DR2GOSCT-ND	Single Supply, Low Power Dual Op Amp*	8-SOIC	1.14	.90	.81
MC33172DR2GOSTR-ND	Single Supply, Low Power Dual Op Amp*	8-SOIC	1050.00/2,500		
MC33172PGOS-ND	Single Supply Low Power Dual Op Amp*	8-Dip	1.37	1.10	.96
MC33174DGOS-ND	Single Supply Low Power Quad Op Amp*	14-SOIC	1.58	1.26	1.11
MC33174DR2GOSCT-ND	Single Supply Low Power Quad Op Amp*	14-SOIC	1.71	1.35	1.22
MC33174DR2GOSTR-ND	Single Supply Low Power Quad Op Amp*	14-SOIC	1575.00/2,500		
MC33174PGOS-ND	Single Supply Low Power Quad Op Amp*	14-Dip	1.58	1.26	1.11
MC33178DGOS-ND	Dual Low Power, Low Noise Op Amp*	8-SOIC	1.09	.87	.76
MC33178DR2GOSCT-ND	Dual Low Power, Low Noise Op Amp*	8-SOIC	1.18	.93	.84
MC33178DR2GOSTR-ND	Dual Low Power, Low Noise Op Amp*	8-SOIC	1085.00/2,500		
MC33178PGOS-ND	Dual Low Power, Low Noise Op Amp*	8-Dip	1.47	1.18	1.03
MC33179DGOS-ND	Quad Low Power, Low Noise Op Amp*	14-SOIC	1.58	1.26	1.11
MC33179DR2GOSCT-ND	Quad Low Power, Low Noise, Op Amp*	14-SOIC	1.71	1.35	1.22
MC33179DR2GOSTR-ND	Quad Low Power, Low Noise, Op Amp*	14-SOIC	1575.00/2,500		
MC33179PGOS-ND	Quad Low Power, Low Noise Op Amp*	14-Dip	1.58	1.26	1.11
MC33201DGOS-ND	Low Voltage, Rail-to-Rail Op Amp*	8-SOIC	1.40	1.12	.98
MC33201PGOS-ND	Low Voltage, Rail-to-Rail Op Amp*	8-Dip	1.40	1.12	.98
MC33202DGOS-ND	Dual Low Voltage, Rail-to-Rail Op Amp*	8-SOIC	1.23	.98	.86
MC33202DMR2GOSCT-ND	Dual Low Volt., Rail-to-Rail Op Amp*	8-Micro	1.37	1.08	.98
MC33202DMR2GOSTR-ND	Dual Low Volt., Rail-to-Rail Op Amp*	8-Micro	2016.00/4,000		
MC33202DR2GOSCT-ND	Dual Low Voltage Rail-to-Rail Op Amp*	8-SOIC	1.33	1.05	.95
MC33202DR2GOSTR-ND	Dual Low Voltage Rail-to-Rail Op Amp*	8-SOIC	1225.00/2,500		
MC33202PGOS-ND	Dual Low Voltage, Rail-to-Rail Op Amp*	8-Dip	1.23	.98	.86
MC33204DGOS-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1.61	1.30	1.17
MC33204DR2GOSCT-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1.82	1.41	1.28
MC33204DR2GOSTR-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1755.00/2,500		
MC33204DTBGOS-ND	Quad Low Volt., Rail-to-Rail Op Amp*	14-TSSOP	1.67	1.35	1.22
MC33204PGOS-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-Dip	1.61	1.30	1.17
MC33272ADGOS-ND	Dual High Slew Rate Op Amp*	8-SOIC	1.55	1.25	1.13
MC33272ADR2GOSCT-ND	Dual Single Supply, High Slew Rate, Op Amp*	8-SOIC	1.75	1.35	1.23
MC33272ADR2GOSTR-ND	Dual Single Supply, High Slew Rate, Op Amp*	8-SOIC	1687.50/2,500		
MC33274ADGOS-ND	Quad High Slew Rate Op Amp*	14-SOIC	1.92	1.55	1.40
MC33274ADR2GOSCT-ND	Quad High Slew Rate Op Amp*	14-SOIC	2.17	1.68	1.52
MC33274ADR2GOSTR-ND	Quad High Slew Rate Op Amp*	14-SOIC	2092.50/2,500		
MC33274APGOS-ND	Quad High Slew Rate Op Amp*	14-Dip	1.92	1.55	1.40
MC33502DGOS-ND	1.0V, Rail-to-Rail, Dual Op Amp*	8-SOIC	2.02	1.63	1.47
MC34071ADGOS-ND	Single Supply Op Amp*	8-SOIC	1.05	.84	.74
MC34071APGOS-ND	Single Supply Op Amp*	8-Dip	1.05	.84	.74
MC34071DGOS-ND	Single Supply Op Amp*	8-SOIC	1.02	.82	.72
MC34071PGOS-ND	Single Supply Op Amp*	8-Dip	1.02	.82	.72
MC34072ADGOS-ND	Single Supply Dual Op Amp*	8-SOIC	1.09	.87	.76
MC34072APGOS-ND	Single Supply Dual Op Amp*	8-Dip	1.09	.87	.76
MC34072DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	1.02	.82	.72
MC34072DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	1.10	.87	.79
MC34072DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	1015.00/2,500		
MC34072PGOS-ND	Single Supply Dual Op Amp*	8-Dip	1.05	.84	.74
MC34074ADGOS-ND	Single Supply Quad Op Amp*	14-SOIC	1.54	1.24	1.08
MC34074ADR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	1.67	1.32	1.19
MC34074ADR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	1540.00/2,500		
MC34074APGOS-ND	Single Supply Quad Op Amp*	14-Dip	1.54	1.24	1.08
MC34074DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	1.51	1.21	1.06
MC34074DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	1.63	1.29	1.17
MC34074DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	1505.00/2,500		
MC34074PGOS-ND	Single Supply Quad Op Amp*	14-Dip	1.51	1.21	1.06
NCN6000DTBR2OSCT-ND	Compact Smart Card Interface IC	20-TSSOP	3.70	3.03	2.72
NCP100SNT1GOSCT-ND	Sub 1V Precision Adj. Shunt Regulator*	SOT23-5	1.03	.81	.73
NCP100SNT1GOSTR-ND	Sub 1V Precision Adj. Shunt Regulator*	SOT23-5	1134.00/3,000		
NCP1200D60R2GOSCT-ND	60kHz PWM Current Mode Controller*	8-SOIC	1.17	.93	.83
NCP1200D60R2GOSTR-ND	60kHz PWM Current Mode Controller*	8-SOIC	1075.00/2,500		
NCV1124DGOS-ND	Dual Variable-Reluctance Sensor Interface*	8-SOIC	2.39	1.93	1.74
NE521NGOS-ND	Dual Differential Comparator/Sense Amp*	14-Dip	4.24	3.41	3.11
NE5517ANGOS-ND	Dual Operational Transconductance Amp*	16-Dip	2.17	1.75	1.58

ON Semiconductor™ DigiReel® (Cont.) SIGNAL/ INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NE5517DGOS-ND	Dual Op Transconductance Amp*	16-SOIC	2.08	1.68	1.51
NE5532ANGOS-ND	Dual Low Noise Op Amp*	8-Dip	1.40	1.12	.98
NE5532DGOS-ND	Dual Low Noise Op Amp*	16-SOIC	1.40	1.12	.98
NE5532NGOS-ND	Dual Low Noise Op Amp*	8-Dip	1.33	1.07	.94
SA571DGOS-ND	Dual Gain Compandor*	16-SOIC	5.60	4.50	4.10
SA571NGOS-ND	Dual Gain Compandor*	16-Dip	5.74	4.62	4.21
SA572NGOS-ND	Dual Gain Compandor, Programmable*	16-Dip	6.33	5.09	4.64
SA575DGOS-ND	Dual Gain Compandor, Low Voltage*	20-SOIC	6.73	5.52	4.98
SE5532AD8GOS-ND	Dual Low Noise Op Amp*	8-SOIC	1.65	1.32	1.16
TCA0372DP1GOS-ND	Dual 1A Output Current Op Amp*	8-Dip	1.38	1.11	.97
TCA0372DP2GOS-ND	1A Dual Power Op Amp*	16-Dip	1.34	1.08	.94
TCA0372DWR2GOSCT-ND	Dual 1A Output Current Op Amp*	16-SOIC	1.32	1.05	.94
TCA0372DWR2GOSTR-ND	Dual 1A Output Current Op Amp*	16-SOIC	522.00/1,000		

ON Semiconductor™ DigiReel® SMALL SIGNAL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MMBV609LT1GOSCT-ND	20V, Silicon Tuning Diode*	SOT-23	.45	.30	.24
MMBV609LT1GOSTR-ND	20V, Silicon Tuning Diode*	SOT-23	303.00/3,000		
MMBV2109LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.52	.31	.25
MMBV3401LT1GOSCT-ND	35V, Silicon Pin Diode*	SOT-23	.45	.30	.24
MMBV3401LT1GOSTR-ND	35V, Silicon Pin Diode*	SOT-23	303.00/3,000		

ON Semiconductor™ DigiReel® SUPERVISORY CIRCUITS/ RESET GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1026JSTZ-ND	Control System Reference/EEPROM*	48-LQFP	11.00	9.25	8.50
ADM1026JSTZ-R7CT-ND	Control System Reference/EEPROM*	48-LQFP	11.50	9.75	9.00
ADM1026JSTZ-R7TR-ND	Control System Reference/EEPROM*	48-LQFP	3625.00/500		

ON Semiconductor™ SRAM

RoHS Compliant

On Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
N64S830HAS22I	766-1045-ND	8K x 8 Bit 64Kb Low Power Serial SRAMs	8-SOIC	3.00	2.41	2.20
N64S830HAT22I	766-1046-5-ND	8K x 8 Bit 64Kb Low Power Serial SRAMs	8-TSSOP	3.00	2.41	2.20
N25S818HAS21I	766-1041-ND	32K x 8 Bit 256Kb Low Power Serial SRAMs	8-SOIC	3.47	2.79	2.55
N25S818HAT21I	766-1042-5-ND	32K x 8 Bit 256Kb Low Pwr Serial SRAMs	8-TSSOP	3.47	2.79	2.55
N25S830HAS22I	766-1043-ND	32K x 8 Bit 256Kb Low Power Serial SRAMs	8-SOIC	3.47	2.79	2.55
N25S830HAT22I	766-1044-ND	32K x 8 Bit 256Kb Low Pwr Serial SRAMs	8-TSSOP	3.47	2.79	2.55

ON Semiconductor™ DigiReel® SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2574N-3.3GOS-ND	0.5A, 3.3V Step-Down Switching Reg.*	8-Dip	1.78	1.44	1.30
LM2575D2T-5GOS-ND	1A, 5V Step-Down Switching Regulator*	D2PAK-5	2.55	2.06	1.85
LM2576D2T-ADJGOS-ND	3A, Adj. Step-Down Switching Regulator*	D2PAK-5	2.66	2.15	1.93
LM2576T-005GOS-ND	3A, 5V Step-Down Switching Reg.*	TO-220-5	2.50	2.02	1.82
LM2576TV-ADJGOS-ND	3A, Adj. Step-Down Switching Reg.*	TO-220-5	2.50	2.02	1.82
NLAS323USGOSCT-ND	Dual SPST Analog Switch*	US8-8	.88	.68	.60
NLAS323USGOSTR-ND	Dual SPST Analog Switch*	US8-8	870.00/3,000		
NLAS1053USOSCT-ND	2:1 Mux/Demux Analog Switch	US8-8	.98	.78	.70
NLAS1053USGOSCT-ND	2:1 Mux/Demux Analog Switch*	US8-8	.95	.75	.68
NLAS1053USGOSTR-ND	2:1 Mux/Demux Analog Switch*	US8-8	1050.00/3,000		
NLAS8252MUTAGOSCT-ND	DP3T Switch for USB/UART Data Mux*	12-UQFN	.85	.68	.61

ON Semiconductor™ DigiReel® TVS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NUF2221W1T2OSCT-ND	USB Upstream Terminator with ESD Protection	SOT-363	.82	.65	.59
NUF2221W1T2OSTR-ND	USB Upstream Terminator with ESD Protection	SOT-363	999.00/3,000		
NUF2221W1T2GOSCT-ND	USB Upstream Terminator w/ESD Protection*	SOT-363	.68	.48	.41
NUF2221W1T2GOSTR-ND	USB Upstream Terminator w/ESD Protection*	SOT-363	579.00/3,000		
NUF2441FCT1GOSCT-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	.79	.62	.54
NUF2441FCT1GOSTR-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	783.00/3,000		
NUF3101FCT1GOSCT-ND	3-Line EMI Filter*	8-Flip Chip	.91	.71	.62
NUF4000MUT2GOSCT-ND	4-Line EMI Filter with ESD Protection*	8-UDFN	.97	.75	.66
NUF4000MUT2GOSTR-ND	4-Line EMI Filter with ESD Protection*	8-UDFN	957.00/3,000		
NUF4010MUT2GOSCT-ND	4-Line EMI Filter with ESD Protection*	8-UDFN	.96	.82	.72
NUF4010MUT2GOSTR-ND	4-Line EMI Filter with ESD Protection*	8-UDFN	849.00/3,000		
NUF6005MUT2GOSCT-ND	6-Line EMI Filter with ESD Protection*	12-UDFN	.96	.85	.74
NUF6005MUT2GOSTR-ND	6-Line EMI Filter with ESD Protection*	12-UDFN	903.00/3,000		
NUF6010MUT2GOSCT-ND	6-Line EMI Filter with ESD Protection*	12-UDFN	.62	.44	.38
NUF6010MUT2GOSTR-ND	6-Line EMI Filter with ESD Protection*	12-UDFN	492.00/3,000		
NUF6410MNT1GOSCT-ND	6-Line EMI Filter with ESD Protection*	12-DFN	.69	.49	.42
NUF6410MNT1GOSTR-ND	6-Line EMI Filter with ESD Protection*	12-DFN	582.00/3,000		
NUF8000MUT2GOSCT-ND	8-Line EMI Filter with ESD Protection*	16-UDFN	.85	.68	.61
NUF8010MUT2GOSCT-ND	8-Line EMI Filter with ESD Protection*	16-UDFN	.92	.73	.66
NUF8610MNTXGOSCT-ND	8-Line EMI Filter with ESD Protection*	16-DFN	.68	.53	.47
NUP8011MUTAGOSCT-ND	Low Capacitance TVS Array*	8-UDFN	.88	.68	.60
NUP8011MUTAGOSTR-ND	Low Capacitance TVS Array*	8-UDFN	870.00/3,000		
NUP1301ML3T1GOSCT-ND	Low Cap. Diode Array, ESD Protection*	SOT-23	.56	.32	.24
NUP1301ML3T1GOSTR-ND	Low Cap. Diode Array, ESD Protection*	SOT-23	240.00/3,000		
NUP2105LT1GOSCT-ND	Dual Line CAN Bus Protector*	SOT-23	.50	.35	.30
NUP2105LT1GOSTR-ND	Dual Line CAN Bus Protector*	SOT-23	420.00/3,000		
NUP2201MR6T1GOSCT-ND	Low Cap. Diode TVS Array, Data Line Protection*	6-TSOP	.68	.48	.41
NUP2201MR6T1GOSTR-ND	Low Cap. Diode TVS Array, Data Line Protection*	6-TSOP	579.00/3,000		
NUP2301MW6T1GOSCT-ND	Low Cap. Diode Array, 2 Line ESD Protection*	SC-88	.50	.35	.30
NUP2301MW6T1GOSTR-ND	Low Cap. Diode Array, 2 Line ESD Protection*	SC-88	420.00/3,000		
NUP4301MR6T1GOSCT-ND	Low Cap. Diode Array, ESD Protection*	6-TSOP	.51	.36	.31
NUP4301MR6T1GOSTR-ND	Low Cap. Diode Array, ESD Protection*	6-TSOP	432.00/3,000		
NZQA5V6AXV5T1GOSCT-ND	Low Cap. Diode Array, ESD Protection*	SOT-553	.60	.40	.33
NZQA5V6AXV5T1GOSTR-ND	Low Cap. Diode Array, ESD Protection*	SOT-553	548.00/4,000		
STF202-22T1GOSCT-ND	USB Filter with ESD Protection*	6-TSOP	.82	.58	.50
STF202-22T1GOSTR-ND	USB Filter with ESD Protection*	6-TSOP	693.00/3,000		

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

ANALOG SWITCHES

Siliconix Digi-Reel®

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DG201BDQ-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-TSSOP	2.98	2.30	2.09
DG201BDQ-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-TSSOP	3444.00/3,000		
DG201BDY-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-SOIC	2.80	2.16	1.96
DG201BDY-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-SOIC	2700.00/2,500		
DG2041DQ-T1-E3CT-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	3.30	2.70	2.42
DG2041DQ-T1-E3TR-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	4389.00/3,000		
DG2042DQ-T1-E3CT-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	3.30	2.70	2.42
DG2042DQ-T1-E3TR-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	4389.00/3,000		
DG2043DQ-T1-E3CT-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	2.24	1.83	1.64
DG2043DQ-T1-E3TR-ND	Low Voltage, Quad SPST Analog Switch	16-TSSOP	4389.00/3,000		
DG211BDQ-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-TSSOP	2.59	2.00	1.82
DG211BDQ-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-TSSOP	2997.00/3,000		
DG211BDY-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-SOIC	2.70	2.08	1.89
DG211BDY-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-SOIC	2600.00/2,500		
DG212BDQ-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-TSSOP	2.70	2.08	1.89
DG212BDQ-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-TSSOP	3120.00/3,000		
DG212BDY-T1-E3CT-ND	Improved Quad CMOS Analog Switch	16-SOIC	2.70	2.08	1.89
DG212BDY-T1-E3TR-ND	Improved Quad CMOS Analog Switch	16-SOIC	2600.00/2,500		
DG213DQ-T1-E3CT-ND	Quad Complementary CMOS Analog Switch	16-TSSOP	2.87	2.22	2.01
DG213DQ-T1-E3TR-ND	Quad Complementary CMOS Analog Switch	16-TSSOP	3321.00/3,000		
DG213DY-T1-E3CT-ND	Quad Complementary CMOS Analog Switch	16-SOIC	2.84	2.19	1.99
DG213DY-T1-E3TR-ND	Quad Complementary CMOS Analog Switch	16-SOIC	2735.00/2,500		
DG403DY-T1-E3CT-ND	Low Power, High Speed CMOS Analog Switch	16-SOIC	4.56	3.73	3.35
DG403DY-T1-E3TR-ND	Low Power, High Speed CMOS Analog Switch	16-SOIC	5055.00/2,500		
DG4051AEQ-T1-E3CT-ND	8-Channel Multiplexer	16-TSSOP	1.71	1.35	1.22
DG4051AEQ-T1-E3TR-ND	8-Channel Multiplexer	16-TSSOP	1890.00/3,000		
DG4052AEQ-T1-E3CT-ND	Dual 4-Channel Multiplexer	16-TSSOP	1.66	1.31	1.18
DG4052AEQ-T1-E3TR-ND	Dual 4-Channel Multiplexer	16-TSSOP	1890.00/3,000		
DG4053AEQ-T1-E3CT-ND	Triple 2-Channel Multiplexer	16-TSSOP	1.71	1.35	1.22
DG4053AEQ-T1-E3TR-ND	Triple 2-Channel Multiplexer	16-TSSOP	1890.00/3,000		
DG406DN-T1-E3CT-ND	16-Channel High Performance CMOS Analog Mux	28-PLCC	8.61	7.15	6.50
DG406DN-T1-E3TR-ND	16-Channel High Performance CMOS Analog Mux	28-PLCC	2519.00/500		
DG406DW-E3-ND	16-Channel High Performance CMOS Analog Mux	28-SOIC	7.63	6.26	5.65
DG407DN-T1-E3CT-ND	Dual 8-Ch. High Performance CMOS Analog Mux	28-PLCC	8.96	7.44	6.76
DG407DN-T1-E3TR-ND	Dual 8-Ch. High Performance CMOS Analog Mux	28-PLCC	2619.50/500		
DG407DW-E3-ND	Dual 8-Ch. High Performance CMOS Analog Mux	28-SOIC	9.25	7.59	6.85
DG408DQ-T1-E3CT-ND	8-Channel Single-Ended CMOS Analog Mux	16-TSSOP	4.05	3.31	2.97
DG408DQ-T1-E3TR-ND	8-Channel Single-Ended CMOS Analog Mux	16-TSSOP	5388.00/3,000		
DG408DY-T1-E3CT-ND	8-Channel Single-Ended CMOS Analog Mux	16-SOIC	3.75	3.07	2.75
DG408DY-T1-E3TR-ND	8-Channel Single-Ended CMOS Analog Mux	16-SOIC	4157.50/2,500		
DG409DQ-T1-E3CT-ND	Dual 4-Channel Differential CMOS Analog Mux	16-TSSOP	4.05	3.31	2.97
DG409DQ-T1-E3TR-ND	Dual 4-Channel Differential CMOS Analog Mux	16-TSSOP	5388.00/3,000		
DG409DY-T1-E3CT-ND	Dual 4-Channel Differential CMOS Analog Mux	16-SOIC	3.75	3.07	2.75
DG409DY-T1-E3TR-ND	Dual 4-Channel Differential CMOS Analog Mux	16-SOIC	4157.50/2,500		
DG411DY-T1-E3CT-ND	Precision Mono Quad SPST CMOS Analog Switch	16-SOIC	3.30	2.70	2.42
DG411DY-T1-E3TR-ND	Precision Mono Quad SPST CMOS Analog Switch	16-SOIC	3657.50/2,500		
DG441DY-T1-E3CT-ND	Quad SPST CMOS Analog Switch	16-SOIC	2.66	2.06	1.87
DG441DY-T1-E3TR-ND	Quad SPST CMOS Analog Switch	16-SOIC	2565.00/2,500		
DG444DY-T1-E3CT-ND	Quad SPST CMOS Analog Switch	16-SOIC	2.87	2.22	2.01
DG444DY-T1-E3TR-ND	Quad SPST CMOS Analog Switch	16-SOIC	2767.50/2,500		
DG447DV-T1-E3CT-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1.44	1.14	1.03
DG447DV-T1-E3TR-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1596.00/3,000		
DG448DV-T1-E3CT-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1.44	1.14	1.03
DG448DV-T1-E3TR-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1596.00/3,000		
DG449DS-T1-E3CT-ND	High Voltage Single SPDT Analog Switch	SOT-23-8	1.71	1.35	1.22
DG449DS-T1-E3TR-ND	High Voltage Single SPDT Analog Switch	SOT-23-8	1890.00/3,000		
DG451EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	4.35	3.56	3.19
DG451EQ-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	5787.00/3,000		
DG451EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4.35	3.56	3.19
DG451EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG452EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	4.35	3.56	3.19
DG452EQ-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	5787.00/3,000		
DG452EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4.35	3.56	3.19
DG452EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG453EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	4.35	3.56	3.19
DG453EQ-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	5787.00/3,000		
DG453EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4.35	3.56	3.19
DG453EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG454EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	3.96	3.24	2.91
DG454EQ-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	5787.00/3,000		
DG454EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	3.96	3.24	2.91
DG454EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG455EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	4.35	3.56	3.19
DG455EQ-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	5787.00/3,000		
DG455EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4.35	3.56	3.19
DG455EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG456EQ-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-TSSOP	3.96	3.24	2.91
DG456EY-T1-E3CT-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	3.96	3.24	2.91
DG456EY-T1-E3TR-ND	High Volt. 4-ohm Quad SPST CMOS Analog Switch	16-SOIC	4822.50/2,500		
DG467DV-T1-E3CT-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	.95	.75	.68
DG467DV-T1-E3TR-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1050.00/3,000		
DG468DV-T1-E3CT-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1.52	1.20	1.08
DG468DV-T1-E3TR-ND	Low Power, High Voltage SPST Analog Switch	6-TSOP	1680.00/3,000		
DG469EQ-T1-E3CT-ND	High Voltage SPDT Analog Switch	8-MSOP	1.63	1.29	1.17
DG469EQ-T1-E3TR-ND	High Voltage SPDT Analog Switch	8-MSOP	1505.00/2,500		
DG469EY-T1-E3CT-ND	High Voltage SPDT Analog Switch	8-SOIC	1.63	1.29	1.17
DG469EY-T1-E3TR-ND	High Voltage SPDT Analog Switch	8-SOIC	1505.00/2,500		
DG470EQ-T1-E3CT-ND	High Voltage SPDT Analog Switch with Enable	8-MSOP	1.63	1.29	1.17
DG470EQ-T1-E3TR-ND	High Voltage SPDT Analog Switch with Enable	8-MSOP	1505.00/2,500		
DG470EY-T1-E3CT-ND	High Voltage SPDT Analog Switch with Enable	8-SOIC	1.63	1.29	1.17
DG470EY-T1-E3TR-ND	High Voltage SPDT Analog Switch with Enable	8-SOIC	1505.00/2,500		
DG604EN-T1-E4CT-ND	Analog 4-Channel CMOS Multiplexer	16-miniQFN	1.71	1.35	1.22
DG604EN-T1-E4TR-ND	Analog 4-Channel CMOS Multiplexer	16-miniQFN	3444.00/3,000		
DG604EQ-T1-E3CT-ND	Analog 4-Channel CMOS Multiplexer	14-TSSOP	1.71	1.35	1.22
DG604EQ-T1-E3TR-ND	Analog 4-Channel CMOS Multiplexer	14-TSSOP	1890.00/3,000		
DG611AEN-T1-E4CT-ND	Quad SPST Switch	16-miniQFN	1.52	1.20	1.08
DG611AEN-T1-E4TR-ND	Quad SPST Switch	16-miniQFN	1680.00/3,000		
DG611AEQ-T1-E3CT-ND	Quad SPST Switch	16-TSSOP	1.46	1.15	1.04
DG611AEY-T1-E3CT-ND	Quad SPST Switch	16-SOIC	1.46	1.15	1.04
DG611AEY-T1-E3TR-ND	Quad SPST Switch	16-SOIC	1400.00/2,500		
DG612AEN-T1-E4CT-ND	Quad SPST Switch	16-miniQFN	1.72	1.24	1.16
DG612AEN-T1-E4TR-ND	Quad SPST Switch	16-miniQFN	1680.00/3,000		
DG612AEQ-T1-E3CT-ND	Quad SPST Switch	16-TSSOP	1.52	1.20	1.08
DG612AEQ-T1-E3TR-ND	Quad SPST Switch	16-TSSOP	1680.00/3,000		
DG612AEY-T1-E3CT-ND	Quad SPST Switch	16-SOIC	1.52	1.20	1.08
DG612AEY-T1-E3TR-ND	Quad SPST Switch	16-SOIC	1400.00/2,500		
DG613AEN-T1-E4CT-ND	Quad SPST Switch	16-miniQFN	1.46	1.15	1.04

ANALOG SWITCHES

Siliconix Digi-Reel® *(Cont.)*

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DG613AEN-T1-E4TR-ND	Quad SPST Switch	16-miniQFN	3192.00/6,000		
DG613AEQ-T1-E3CT-ND	Quad SPST Switch	16-TSSOP	1.46	1.15	1.04
DG613AEQ-T1-E3TR-ND	Quad SPST Switch	16-TSSOP	1680.00/3,000		
DG613AEY-T1-E3CT-ND	Quad SPST Switch	16-SOIC	1.52	1.20	1.08
DG613AEY-T1-E3TR-ND	Quad SPST Switch	16-SOIC	1400.00/2,500		
DG636EQ-T1-E3CT-ND	Dual SPDT Analog Switch	14-TSSOP	1.71	1.35	1.22
DG636EQ-T1-E3TR-ND	Dual SPDT Analog Switch	14-TSSOP	1890.00/3,000		
DG9051DQ-T1-E3CT-ND	Low Voltage, Precision 8-Channel Multiplexer	16-TSSOP	3.69	3.02	2.71
DG9051DQ-T1-E3TR-ND	Low Voltage, Precision 8-Channel Multiplexer	16-TSSOP	4908.00/3,000		
DG9052DQ-T1-E3CT-ND	Low Voltage, Precision Dual 4-Channel Multiplexer	16-TSSOP	4.13	2.92	2.76
DG9052DQ-T1-E3TR-ND	Low Voltage, Precision Dual 4-Channel Multiplexer	16-TSSOP	4908.00/3,000		
DG9053DQ-T1-E3CT-ND	Low Voltage, Prec. Triple 2-Ch. SPDT Analog Switch	16-TSSOP	4.13	2.92	2.76
DG9053DQ-T1-E3TR-ND	Low Voltage, Prec. Triple 2-Ch. SPDT Analog Switch	16-TSSOP	4908.00/3,000		
DG9424DQ-T1-E3CT-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3.33	2.57	2.33
DG9424DQ-T1-E3TR-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3849.00/3,000		
DG9425DQ-T1-E3CT-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3.33	2.57	2.33
DG9425DQ-T1-E3TR-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3849.00/3,000		
DG9426DQ-T1-E3CT-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3.33	2.57	2.33
DG9426DQ-T1-E3TR-ND	Low Voltage, Dual Supply, Quad SPST Analog Switch	16-TSSOP	3849.00/3,000		
SI9122ADQ-T1-E3CT-ND	500kHz Half-Bridge DC/DC Controller	20-TSSOP	9.79	6.91	6.53
SI9122ADQ-T1-E3TR-ND	500kHz Half-Bridge DC/DC Controller	20-TSSOP	9638.40/3,000		
SI9241AEY-T1-E3CT-ND	Single-Ended Bus Transceiver	8-SOIC	2.45	1.89	1.72
SI9241AEY-T1-E3TR-ND	Single-Ended Bus Transceiver	8-SOIC	2362.50/2,500		
SI9910DY-T1-E3CT-ND	Adaptive Power MOSFET Driver	8-SOIC	3.23	2.24	2.12
SI9910DY-T1-E3TR-ND	Adaptive Power MOSFET Driver	8-SOIC	2502.50/2,500		
SI9986DY-T1-E3CT-ND	Buffered Half-Bridge Driver	8-SOIC	4.47	3.66	3.28
SI9986DY-T1-E3TR-ND	Buffered Half-Bridge Driver	8-SOIC	4955.00/2,500		
SIP21108DT-T1-E3CT-ND	Adjustable 150mA Low Noise, LDO Regulator	TSOT-23-5	.66	.47	.40
SIP21108DT-T1-E3TR-ND	Adjustable 150mA Low Noise, LDO Regulator	TSOT-23-5	558.00/3,000		

HALL-EFFECT

DIODES INCORPORATED Digi-Reel®

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
AH173-PL-A-ADICT-ND	Internal Pull-Up Latch for High Temperature	SIP-3	.81	.71	.56
AH173-WL-ADICT-ND	Internal Pull-Up Latch for High Temperature	SC-59	1.37	1.23	.98
AH173-WL-ADITR-ND	Internal Pull-Up Latch for High Temperature	SC-59	918.00/3,000		
AH173-WL-BDICT-ND	Internal Pull-Up Latch for High Temperature	SC-59	1.29	1.16	.92
AH173-WL-BDITR-ND	Internal Pull-Up Latch for High Temperature	SC-59	1428.00/3,000		
AH175-PL-A-ADICT-ND	Latch for High Temperature	SIP-3	1.37	1.23	.98
AH175-PL-A-ADITB-ND	Latch for High Temperature	SIP-3	2016.00/4,000		
AH175-WL-BDICT-ND	Latch for High Temperature	SC-59	1.29	1.16	.92
AH175-WL-BDITR-ND	Latch for High Temperature	SC-59	1428.00/3,000		
AH180-PL-ADICT-ND	Micropower Omnipolar Sensor Switch	SIP-3	1.37	1.23	.98
AH180-PL-ADITB-ND	Micropower Omnipolar Sensor Switch	SIP-3	2016.00/4,000		
AH180-WGDICT-ND	Micropower Omnipolar Sensor Switch	SC-59	1.48	1.33	1.06
AH180-WGDITR-ND	Micropower Omnipolar Sensor Switch	SC-59	1638.00/3,000		
AH182-WLDICT-ND	Low Power Switch	SOT-23	1.37	1.23	.98
AH182-WLDITR-ND	Low Power Switch	SOT-23	1512.00/3,000		
AH183-WLDICT-ND	Low Power Switch	SOT-23	1.50	1.35	1.07
AH183-WLDITR-ND	Low Power Switch	SOT-23	1659.00/3,000		
AH337-PL-ADICT-ND	Single Phase Switch	SIP-3	1.48	1.33	1.06
AH337-PL-ADITB-ND	Single Phase Switch	SIP-3	2184.00/4,000		
AH337-PL-BDI-ND	Single Phase Switch	SIP-3	1.37	1.21	.96
AH337-WGCT-ND	Single Phase Switch ***NEW!***	SC-59-3	.99	.89	.71
AH337-WGTR-ND	Single Phase Switch ***NEW!***	SC-59-3	1092.00/3,000		
AH337-WLDICT-ND	Single Phase Switch	SC-59	.99	.89	.71
AH373-PL-ADICT-ND	Internal Pull-Up Latch	SIP-3	1.37	1.23	.98
AH373-PL-ADITB-ND	Internal Pull-Up Latch	SIP-3	1636.32/4,000		
AH373-PL-BDI-ND	Internal Pull-Up Latch	SIP-3	1.26	1.12	.89
AH373-WLDICT-ND	Internal Pull-Up Latch	SC-59	1.28	1.15	.92
AH373-WLDITR-ND	Internal Pull-Up Latch	SC-59	1419.00/3,000		
AH375-WLDICT-ND	Single Phase Latch	SC-59	1.28	1.15	.92
AH375-WLDITR-ND	Single Phase Latch	SC-59	1419.00/3,000		
AH1751-PG-A-ADICT-ND	Hall Effect Latch	SIP-3	1.11	1.00	.79
AH1751-PG-A-ADITB-ND	Hall Effect Latch	SIP-3	1638.00/4,000		
AH1751-RG-7-ADICT-ND	Hall Effect Latch ***NEW!***	SC59R	.54	.44	.33
AH1751-RG-7-ADITR-ND	Hall Effect Latch ***NEW!***	SC59R	459.00/3,000		
AH1751-WG-7-ADICT-ND	Hall Effect Latch ***NEW!***	SC59	.54	.44	.33
AH1751-WG-7-ADITR-ND	Hall Effect Latch ***NEW!***	SC59	459.00/3,000		
AH1802-FY4GDICT-ND	Micropower Omnipolar Sensor Switch ***NEW!***	3-DFN	1.12	1.01	.80
AH1802-FY4GDITR-ND	Micropower Omnipolar Sensor Switch ***NEW!***	3-DFN	1236.00/3,000		
AH2984-PG-BDI-ND	Hall Effect 2-Phase Fan Motor Controller ***NEW!***	SIP-4	1.51	1.34	1.06
AH3761-PG-ADICT-ND	Hall Effect Latched Sensor ***NEW!***	SIP-3	.86	.75	.59
AH3761-PG-ADITB-ND	Hall Effect Latched Sensor ***NEW!***	SIP-3	1136.80/4,000		
AH3761-PG-BDI-ND	Hall Effect Latched Sensor ***NEW!***	SIP-3	.78	.69	.53
AH3761-WG-7DICT-ND	Hall Effect Latched Sensor ***NEW!***	SC59-3	.78	.68	.54
AH3761-WG-7DITR-ND	Hall Effect Latched Sensor ***NEW!***	SC59-3	771.00/3,000		
AH5771-PG-BDI-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SIP-4	1.67	1.52	1.22
AH5792-YG-13DICT-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT89-5	1.29	1.16	.92
AH5792-YG-13DITR-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT89-5	1190.00/2,500		
AH5792-ZG-7DICT-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT-553	1.17	1.05	.84
AH5792-ZG-7DITR-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT-553	1293.00/3,000		
AH5798-YG-13DICT-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT89-5L	1.01	.88	.69
AH5798-YG-13DITR-ND	Hall Effect 1-Phase Fan Motor Controller ***NEW!***	SOT89-5L	835.00/2,500		
ATS137-PL-B-ADI-ND	Single 3.5V to 20V Switch	SIP-3	1.16	1.03	.81
ATS137-PL-B-BDI-ND	Single 3.5V to 20V Switch	SIP-3	1.16	1.03	.81
ATS137-WG-ACT-ND	Single Hall Effect Switch ***NEW!***	SC-59-3	1.65	1.48	1.18
ATS137-WG-ATR-ND	Single Hall Effect Switch ***NEW!***	SC-59-3	1827.00/3,000		
ATS137-WL-ADICT-ND	Single 3.5V to 20V Switch	SC-59	1.75	1.57	1.25
ATS137-WL-ADITR-ND	Single 3.5V to 20V Switch	SC-59	1932.00/3,000		
ATS177-PL-A-BDICT-ND	Single Output 3.5V to 20V Latch	SIP-3	.69	.60	.48
ATS177-PL-A-BDITB-ND	Single Output 3.5V to 20V Latch	SIP-3	913.50/4,000		
ATS177-PL-B-ADI-ND	Single Output 3.5V to 20V Latch	SIP-3	.96	.84	.65
ATS177-PL-B-BDI-ND	Single Output 3.5V to 20V Latch	SIP-3	.64	.56	.44

LDO REGULATORS

DIODES INCORPORATED Digi-Reel®

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
AP78L05SGDICT-ND	5V, 3-Terminal Positive Regulator	SOP-8L	.69	.60	.48
AP78L05SGDITR-ND	5V, 3-Terminal Positive Regulator	SOP-8L	570.00/2,500		
AP78L08SGDICT-ND	8V, 3-Terminal Positive Regulator	SOP-8L	.69	.60	.48
AP78L08SGDITR-ND	8V, 3-Terminal Positive Regulator	SOP-8L	570.00/2,500		
AP130-18RGDICT-ND	1.8V, 300mA LDO Linear Regulator	SC-59R	.72	.62	.49

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(Continued)

DIODES INCORPORATED Digi-Reel® *(Cont.)* LDO REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
AP130-18YLDICT-ND	1.8V, 300mA LDO Linear Regulator	SOT-89	.83	.72	.57
AP130-18YLDITR-ND	1.8V, 300mA LDO Linear Regulator	SOT-89	680.00/2,500		
AP130-18YRLDICT-ND	1.8V, 300mA LDO Linear Regulator	SOT-89R	.96	.83	.66
AP130-18YRLDITR-ND	1.8V, 300mA LDO Linear Regulator	SOT-89R	787.50/2,500		
AP130-20YLDICT-ND	2V, 300mA LDO Linear Regulator	SOT-89	.96	.83	.66
AP130-20YLDITR-ND	2V, 300mA LDO Linear Regulator	SOT-89	787.50/2,500		
AP130-25RGDICT-ND	2.5V, 300mA LDO Linear Regulator	SC-59R	.84	.73	.57
AP130-25RGDITR-ND	2.5V, 300mA LDO Linear Regulator	SC-59R	828.00/3,000		
AP130-28RGDICT-ND	2.8V, 300mA LDO Linear Regulator	SC-59R	.84	.73	.57
AP130-28RGDITR-ND	2.8V, 300mA LDO Linear Regulator	SC-59R	828.00/3,000		
AP130-30WLDICT-ND	3V, 300mA LDO Linear Regulator	SC-59	.84	.73	.57
AP130-30WLDITR-ND	3V, 300mA LDO Linear Regulator	SC-59	828.00/3,000		
AP130-33RGDICT-ND	3.3V, 300mA LDO Linear Regulator	SC-59R	.84	.73	.57
AP130-33RGDITR-ND	3.3V, 300mA LDO Linear Regulator	SC-59R	828.00/3,000		
AP130-33WLDICT-ND	3.3V, 300mA LDO Linear Regulator	SC-59	.84	.73	.57
AP130-33WLDITR-ND	3.3V, 300mA LDO Linear Regulator	SC-59	828.00/3,000		
AP130-33YLDICT-ND	3.3V, 300mA LDO Linear Regulator	SOT-89	.92	.80	.63
AP130-33YLDITR-ND	3.3V, 300mA LDO Linear Regulator	SOT-89	762.50/2,500		
AP130-33YRLDICT-ND	3.3V, 300mA LDO Linear Regulator	SOT-89R	1.09	.95	.75
AP130-33YRLDITR-ND	3.3V, 300mA LDO Linear Regulator	SOT-89R	897.50/2,500		
AP130-35WLDICT-ND	3.5V, 300mA LDO Linear Regulator	SC-59	.84	.73	.57
AP130-35WLDITR-ND	3.5V, 300mA LDO Linear Regulator	SC-59	828.00/3,000		
AP131-20WLDICT-ND	2V, 300mA LDO Linear Regulator	SOT-25	1.01	.88	.69
AP131-20WLDITR-ND	2V, 300mA LDO Linear Regulator	SOT-25	1002.00/3,000		
AP131-35WLDICT-ND	3.5V, 300mA LDO Linear Regulator	SOT-25	1.01	.88	.69
AP131-35WLDITR-ND	3.5V, 300mA LDO Linear Regulator	SOT-25	1002.00/3,000		
AP139-28WLDICT-ND	2.8V, 300mA Low Noise CMOS LDO	SOT-25	.95	.85	.68
AP139-28WLDITR-ND	2.8V, 300mA Low Noise CMOS LDO	SOT-25	1050.00/3,000		
AP139-30WGCT-ND	3.0V, 300mA Low Noise CMOS LDO ***NEW!***	SOT-25	1.06	.92	.72
AP139-30WGTR-ND	3.0V, 300mA Low Noise CMOS LDO ***NEW!***	SOT-25	1044.00/3,000		
AP139-30WLDICT-ND	3V, 300mA Low Noise CMOS LDO	SOT-25	.95	.85	.68
AP139-30WLDITR-ND	3V, 300mA Low Noise CMOS LDO	SOT-25	1050.00/3,000		
AP139-33WGCT-ND	3.3V, 300mA Low Noise CMOS LDO ***NEW!***	SOT-25	1.06	.92	.72
AP139-33WGTR-ND	3.3V, 300mA Low Noise CMOS LDO ***NEW!***	SOT-25	1044.00/3,000		
AP139-33WLDICT-ND	3.3V, 300mA Low Noise CMOS LDO	SOT-25	.95	.85	.68
AP139-33WLDITR-ND	3.3V, 300mA Low Noise CMOS LDO	SOT-25	1050.00/3,000		
AP1084D15GCT-ND	1.5V, 5A LDO Positive Regulator ***NEW!***	TO-252-3	1.48	1.33	1.06
AP1084D15GTR-ND	1.5V, 5A LDO Positive Regulator ***NEW!***	TO-252-3	1365.00/2,500		
AP1084D18LDICT-ND	1.8V, 5A LDO Positive Regulator	TO-252	1.52	1.36	1.08
AP1084D18LDITR-ND	1.8V, 5A LDO Positive Regulator	TO-252	1400.00/2,500		
AP1084D33LDICT-ND	3.3V, 5A LDO Positive Regulator	TO-252	1.52	1.36	1.08
AP1084D33LDITR-ND	3.3V, 5A LDO Positive Regulator	TO-252	1400.00/2,500		
AP1084D50LDICT-ND	5V, 5A LDO Positive Regulator	TO-252	1.52	1.36	1.08
AP1084D50LDITR-ND	5V, 5A LDO Positive Regulator	TO-252	1400.00/2,500		
AP1084DLDICT-ND	Adj., 5A LDO Positive Regulator	TO-252	1.52	1.36	1.08
AP1084DLDITR-ND	Adj., 5A LDO Positive Regulator	TO-252	1400.00/2,500		
AP1084K18G-13DICT-ND	1.8V, 5A LDO Positive Regulator ***NEW!***	TO-263	1.25	1.13	.90
AP1084K18G-13DITR-ND	1.8V, 5A LDO Positive Regulator ***NEW!***	TO-263	438.40/800		
AP1084K18LDICT-ND	1.8V, 5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1084K18LDITR-ND	1.8V, 5A LDO Positive Regulator	TO-263	571.20/800		
AP1084K33LDICT-ND	3.3V, 5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1084K33LDITR-ND	3.3V, 5A LDO Positive Regulator	TO-263	571.20/800		
AP1084K50LDICT-ND	5V, 5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1084K50LDITR-ND	5V, 5A LDO Positive Regulator	TO-263	571.20/800		
AP1084KLDICT-ND	Adj., 5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1084KLDITR-ND	Adj., 5A LDO Positive Regulator	TO-263	571.20/800		
AP1084T15L-UDI-ND	1.5V, 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1084T18L-UDI-ND	1.8V, 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1084T25L-UDI-ND	2.5V, 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1084T33L-UDI-ND	3.3V, 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1084T50L-UDI-ND	5V, 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1084TL-UDI-ND	Adj., 5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086D33GDICT-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1.25	1.13	.90
AP1086D33GDITR-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1155.00/2,500		
AP1086D33LDICT-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1.60	1.43	1.14
AP1086D33LDITR-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1470.00/2,500		
AP1086D50LDICT-ND	5V, 1.5A LDO Positive Regulator	TO-252	1.60	1.43	1.14
AP1086D50LDITR-ND	5V, 1.5A LDO Positive Regulator	TO-252	1470.00/2,500		
AP1086DLDICT-ND	Adj., 1.5A LDO Positive Regulator	TO-252	1.63	1.47	1.17
AP1086DLDITR-ND	Adj., 1.5A LDO Positive Regulator	TO-252	1505.00/2,500		
AP1086K33LDICT-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1086K33LDITR-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	571.20/800		
AP1086K50LDICT-ND	5V, 1.5A LDO Positive Regulator	TO-263	1.63	1.47	1.17
AP1086K50LDITR-ND	5V, 1.5A LDO Positive Regulator	TO-263	571.20/800		
AP1086T15L-UDI-ND	1.5V, 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086T18L-UDI-ND	1.8V, 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086T25L-UDI-ND	2.5V, 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086T33L-UDI-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086T50L-UDI-ND	5V, 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1086TL-UDI-ND	Adj., 1.5A LDO Positive Regulator	TO-220	1.51	1.34	1.06
AP1115AY18LDICT-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115AY18LDITR-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115AY30LDICT-ND	3V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115AY30LDITR-ND	3V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115AY33LDICT-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115AY33LDITR-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115AY50LDICT-ND	5V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115AY50LDITR-ND	5V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115AYLDICT-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	.66	.53	.40
AP1115BY18LDICT-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BY18LDITR-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115BY30LDICT-ND	3V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BY30LDITR-ND	3V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115BY33LDICT-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BY33LDITR-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115BY35LDICT-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BY35LDITR-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115BY50LDICT-ND	5V, 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BY50LDITR-ND	5V, 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1115BYLDICT-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	.77	.62	.47
AP1115BYLDITR-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	542.50/2,500		
AP1117D18LDICT-ND	1.8V, 1A LDO Positive Regulator	TO-252	.99	.89	.71
AP1117D18LDITR-ND	1.8V, 1A LDO Positive Regulator	TO-252	910.00/2,500		
AP1117D25GCT-ND	2.5V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	3.04	2.61	2.13
AP1117D25GTR-ND	2.5V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	357.50/2,500		
AP1117D33GCT-ND	3.3V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	.63	.50	.34
AP1117D33GTR-ND	3.3V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	357.50/2,500		

DIODES INCORPORATED Digi-Reel® *(Cont.)* LDO REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
AP1117D33LDICT-ND	3.3V, 1A LDO Positive Regulator	TO-252	.99	.89	.71
AP1117D33LDITR-ND	3.3V, 1A LDO Positive Regulator	TO-252	910.00/2,500		
AP1117D50GCT-ND	5.0V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	.63	.50	.34
AP1117D50GTR-ND	5.0V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	357.50/2,500		
AP1117DLDICT-ND	Adj., 1A LDO Positive Regulator	TO-252	.99	.89	.71
AP1117DLDITR-ND	Adj., 1A LDO Positive Regulator	TO-252	910.00/2,500		
AP1117E15GDICT-ND	1.5V, 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117E15GDITR-ND	1.5V, 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117E18GDICT-ND	1.8V, 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117E18GDITR-ND	1.8V, 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117E25GDICT-ND	2.5V, 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117E25GDITR-ND	2.5V, 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117E33GDICT-ND	3.3V, 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117E33GDITR-ND	3.3V, 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117E50GDICT-ND	5V, 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117E50GDITR-ND	5V, 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117EGDICT-ND	Adj., 1A LDO Positive Regulator	SOT-223	.75	.65	.51
AP1117EGDITR-ND	Adj., 1A LDO Positive Regulator	SOT-223	617.50/2,500		
AP1117K18LDICT-ND	1.8V, 1A LDO Positive Regulator	TO-263	1.06	.96	.76
AP1117K18LDITR-ND	1.8V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K33LDICT-ND	3.3V, 1A LDO Positive Regulator	TO-263	1.06	.96	.76
AP1117K33LDITR-ND	3.3V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K50LDICT-ND	5V, 1A LDO Positive Regulator	TO-263	1.06	.96	.76
AP1117K50LDITR-ND	5V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117KLDICT-ND	Adj., 1A LDO Positive Regulator	TO-263	1.06	.96	.76
AP1117KLDITR-ND	Adj., 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117T15L-UDI-ND	1.5V, 1A LDO Positive Regulator	TO-220	.98	.87	.69
AP1117T18L-UDI-ND	1.8V, 1A LDO Positive Regulator	TO-220	.98	.87	.69
AP1117T33L-UDI-ND	3.3V, 1A LDO Positive Regulator	TO-220	.98	.87	.69
AP1117T50L-UDI-ND	5V, 1A LDO Positive Regulator	TO-220	.98	.87	.69
AP1117TL-UDI-ND	Adj., 1A LDO Positive Regulator	TO-220	.98	.87	.69
AP1117Y18LDICT-ND	1.8V, 1A LDO Positive Regulator	SOT-89	.92	.80	.63
AP1117Y18LDITR-ND	1.8V, 1A LDO Positive Regulator	SOT-89	762.50/2,500		
AP1117Y25LDICT-ND	2.5V, 1A LDO Positive Regulator	SOT-89	.92	.80	.63
AP1117Y25LDITR-ND	2.5V, 1A LDO Positive Regulator	SOT-89	762.50/2,500		
AP1117Y33LDICT-ND	3.3V, 1A LDO Positive Regulator	SOT-89	.92	.80	.63
AP1117Y33LDITR-ND	3.3V, 1A LDO Positive Regulator	SOT-89	762.50/2,500		
AP1117YLDICT-ND	Adj., 1A LDO Positive Regulator	SOT-89	.92	.80	.63
AP1117YLDITR-ND	Adj., 1A LDO Positive Regulator	SOT-89	762.50/2,500		
AP1120SBLDICT-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1.44	1.30	1.03
AP1120SBLDITR-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1330.00/2,500		
AP1120SLDICT-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1.44	1.30	1.03
AP1120SLDITR-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1330.00/2,500		
AP1121BSGDICT-ND	1.8V/3.3V, 1A LDO Positive Regulator ***NEW!***	8-SOIC	1.44	1.30	1.03
AP1121BSGDITR-ND	1.8V/3.3V, 1A LDO Positive Regulator ***NEW!***	8-SOIC	1330.00/2,500		
AP1121BSLDICT-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1.44	1.30	1.03
AP1121BSLDITR-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1330.00/2,500		
AP1122DGDICT-ND	1.2V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	.95	.85	.68
AP1122DGDITR-ND	1.2V, 1A LDO Positive Regulator ***NEW!***	TO-252-3	875.00/2,500		
AP1122DLDICT-ND	1A LDO Positive Regulator	TO-252	1.22	1.09	.87
AP1122DLDITR-ND	1A LDO Positive Regulator	TO-252	1120.00/2,500		
AP1122EGDICT-ND	1A LDO Positive Regulator	SOT-223	1.06	.96	.76
AP1122EGDITR-ND	1A LDO Positive Regulator	SOT-223	980.00/2,500		
AP1184K533LDICT-ND	3.3V, 4A LDO Positive Regulator	TO-263-5	2.31	1.98	1.62
AP1184K533LDITR-ND	3.3V, 4A LDO Positive Regulator	TO-263-5	832.00/800		
AP1184K5LDICT-ND	Adj., 4A LDO Positive Regulator	TO-263-5	2.31	1.98	1.62
AP1184K5LDITR-ND	Adj., 4A LDO Positive Regulator	TO-263-5	832.00/800		
AP1184T550L-UDI-ND	5V, 4A LDO Positive Regulator	TO-220-5	2.29	2.08	1.67
AP1186K533LDICT-ND	3.3V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.79	1.53	1.25
AP1186K533LDITR-ND	3.3V, 1.5A Ultra LDO Positive Regulator	TO-263-5	642.40/800		
AP1186K550LDICT-ND	5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.79	1.53	1.25
AP1186K550LDITR-ND	5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	642.40/800		
AP7115-25SEGDICT-ND	2.5V, 150mA LDO Regulator ***NEW!***	SOT-353	.47	.38	.26
AP7115-25SEGDITR-ND	2.5V, 150mA LDO Regulator ***NEW!***	SOT-353	321.00/3,000		
AP7115-28SEGDICT-ND	2.8V, 150mA LDO Regulator ***NEW!***	SOT-353	.47	.38	.26
AP7115-28SEGDITR-ND	2.8V, 150mA LDO Regulator ***NEW!***	SOT-353	321.00/3,000		
AP7165-FNGDICT-ND	600mA LDO Regulator with POK	DFN-3030-10	.99	.86	.68
AP7165-FNGDITR-ND	600mA LDO Regulator with POK	DFN-3030-10	978.00/3,000		
AP7165-SPGDICT-ND	600mA LDO Regulator with POK	SOP-8	.88	.76	.60
AP7165-SPGDITR-ND	600mA LDO Regulator with POK	SOP-8	725.00/2,500		
AP7167-FNGDICT-ND	1.2A LDO Regulator with POK	DFN-3030-10	1.06	.96	.76
AP7167-FNGDITR-ND	1.2A LDO Regulator with POK	DFN-3030-10	1176.00/3,000		
AP7167-SPGDICT-ND	1.2A LDO Regulator with POK	SOP-8	1.06	.92	.72
AP7167-SPGDITR-ND	1.2A LDO Regulator with POK	SOP-8	870.00/2,500		
AP7168-SPG-13DICT-ND	Adjustable, 1.2A LDO Regulator ***NEW!***	SOP-8	1.14	1.02	.81
AP7168-SPG-13DITR-ND	Adjustable, 1.2A LDO Regulator ***NEW!***	SOP-8	1050.00/2,500		
AP7215-33YG-13DICT-ND	3.3V, 600mA LDO Regulator ***NEW!***	SOT89-3	.66	.53	.40
AP7215-33YG-13DITR-ND	3.3V, 600mA LDO Regulator ***NEW!***	SOT89-3	465.00/2,500		
AP7217D-12YGDICT-ND	1.2V, 600mA LDO Regulator ***NEW!***	SOT-89-3	.55	.44	.33
AP7217D-12YGDITR-ND	1.2V, 600mA LDO Regulator ***NEW!***	SOT-89-3	387.50/2,500		
AP7311-WG-7DICT-ND	Adj., 150mA LDO Regulator ***NEW!***	SOT-25	.54	.43	.30
AP7311-WG-7DITR-ND	Adj., 150mA LDO Regulator ***NEW!***	SOT-25	372.00/3,000		
AP7331-15WG-7DICT-ND	1.5V, 300mA LDO Regulator ***NEW!***	SOT-25	.58	.46	.32
AP7331-15WG-7DITR-ND	1.5V, 300mA LDO Regulator ***NEW!***	SOT-25	396.00/3,000		
AP7331-18WG-7DICT-ND	1.8V, 300mA LDO Regulator ***NEW!***	SOT-25	.58	.46	.32
AP7331-18WG-7DITR-ND	1.8V, 300mA LDO Regulator ***NEW!***	SOT-25	396.00/3,000		
AP7331-25WG-7DICT-ND	2.5V, 300mA LDO Regulator ***NEW!***	SOT-25	.58	.46	.32
AP7331-25WG-7DITR-ND	2.5V, 300mA LDO Regulator ***NEW!***	SOT-25	396.00/3,000		
AP7331-28WG-7DICT-ND	2.8V, 300mA LDO Regulator ***NEW!***	SOT-25	.58	.46	.32
AP7331-28WG-7DITR-ND	2.8V, 300mA LDO Regulator ***NEW!***	SOT-25	396.00/3,000		
AP7331-30WG-7DICT-ND	3.0V, 300mA LDO Regulator ***NEW!***	SOT-25	.58	.46	.32
AP7331-30WG-7DITR-ND	3.0V, 300mA LDO Regulator ***NEW!***	SOT-25	396.00/3,000		
AP7333-15SAG-7DICT-ND	1.5V, 300mA LDO Regulator ***NEW!***	SOT-23	.52	.41	.29
AP7333-15SAG-7DITR-ND	1.5V, 300mA LDO Regulator ***NEW!***	SOT-23	357.00/3,000		
AP7333-25SAG-7DICT-ND	2.5V, 300mA LDO Regulator ***NEW!***	SOT-23	.52	.41	.29
AP7333-25SAG-7DITR-ND	2.5V, 300mA LDO Regulator ***NEW!***	SOT-23	357.00/3,000		

DIODES INCORPORATED Digi-Reel® POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
AP331AWGDICT-ND	Single Differential Comparator ***NEW!***	SOT-25	.47	.38	.26
AP331AWGDITR-ND	Single Differential Comparator ***NEW!***	SOT-25	321.00/3,000		
AP331AWRGDICT-ND	Single Differential Comparator ***NEW!***	SOT-25R	.47	.38	.26
AP331AWRGDITR-ND	Single Differential Comparator ***NEW!***	SOT-25R	321.00/3,000		
AP358NL-UDI-ND	Low Power Dual Op Amp	Dip-8	.67	.56	.42

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

			Price Each★		
Digi-Key Part No.	**Description**	**Pkg.**	**1**	**10**	**100**
AP358SGDICT-ND	Low Power Dual Op Amp	SOP-8	.72	.58	.43
AP358SGDITR-ND	Low Power Dual Op Amp	SOP-8	505.00/2,500		
AP393NL-UDI-ND	Low Power, Low Offset, Voltage Dual Comparator	Dip-8	.67	.56	.42
AP431AQLDICT-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-25	.88	.76	.60
AP431AQLDITR-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-25	870.00/3,000		
AP431ARGDICT-ND	Adjustable Precision Shunt Regulator 0.5%	SC-59	.77	.62	.47
AP431ARGDITR-ND	Adjustable Precision Shunt Regulator 0.5%	SC-59	651.00/3,000		
AP431ASAGDICT-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-23	.77	.62	.47
AP431ASAGDITR-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-23	651.00/3,000		
AP431AVL-ADICT-ND	Adjustable Precision Shunt Regulator 0.5%	TO-92	.66	.53	.40
AP431AVL-ADITB-ND	Adjustable Precision Shunt Regulator 0.5%	TO-92	372.00/2,000		
AP431QLDICT-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-25	.88	.76	.60
AP431QLDITR-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-25	870.00/3,000		
AP431SAGDICT-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-23	.77	.62	.47
AP431SAGDITR-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-23	651.00/3,000		
AP431VL-ADICT-ND	Adjustable Precision Shunt Regulator 1.0%	TO-92	.58	.46	.32
AP431VL-ADITB-ND	Adjustable Precision Shunt Regulator 1.0%	TO-92	264.00/2,000		
AP431YLDICT-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-89	.74	.60	.45
AP431YLDITR-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-89	522.50/2,500		
AP432ASAGDICT-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-23	.92	.80	.63
AP432ASAGDITR-ND	Adjustable Precision Shunt Regulator 0.5%	SOT-23	915.00/3,000		
AP432AVL-ADICT-ND	Adjustable Precision Shunt Regulator 0.5%	TO-92	.70	.61	.48
AP432AVL-ADITB-ND	Adjustable Precision Shunt Regulator 0.5%	TO-92	464.00/2,000		
AP432SAGDICT-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-23	.92	.80	.63
AP432SAGDITR-ND	Adjustable Precision Shunt Regulator 1.0%	SOT-23	915.00/3,000		
AP1212HSLDICT-ND	Dual USB High-Side Power Switch	SOP-8	1.96	1.68	1.38
AP1212HSLDITR-ND	Dual USB High-Side Power Switch	SOP-8	1890.00/2,500		
AP1212LSLDICT-ND	Dual USB High-Side Power Switch	SOP-8	1.96	1.68	1.38
AP1212LSLDITR-ND	Dual USB High-Side Power Switch	SOP-8	1890.00/2,500		
AP1501-12K5LDICT-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.30	2.97	2.42
AP1501-12K5LDITR-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1320.00/800		
AP1501-12T5L-UDI-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.28	2.93	2.40
AP1501-33K5LDICT-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.30	2.97	2.42
AP1501-33K5LDITR-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1320.00/800		
AP1501-50K5LDICT-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.30	2.97	2.42
AP1501-50K5LDITR-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1320.00/800		
AP1501-50T5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.28	2.93	2.40
AP1501A-12T5L-UDI-ND	12V, 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	5.40	4.83	3.96
AP1501A-50K5LDICT-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	5.94	5.35	4.36
AP1501A-50K5LDITR-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2376.00/800		
AP1501A-50T5L-UDI-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	5.40	4.83	3.96
AP1501A-K5LDICT-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	5.94	5.35	4.36
AP1501A-K5LDITR-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2376.00/800		
AP1501A-T5L-UDI-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	5.40	4.83	3.96
AP1506-50K5LDICT-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.08	2.64	2.16
AP1506-50K5LDITR-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1108.80/800		
AP1506-50K5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.73	2.47	1.98
AP1506-50T5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	2.98	2.69	2.16
AP1506-K5LDICT-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.08	2.64	2.16
AP1506-K5LDITR-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1108.80/800		
AP1506-T5L-UDI-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	2.98	2.69	2.16
AP1507-D5LDICT-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2.59	2.22	1.82
AP1507-D5LDITR-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2497.50/2,500		
AP1509-33SGDICT-ND	3.3V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.17	1.86	1.52
AP1509-33SGDITR-ND	3.3V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2092.50/2,500		
AP1509-50SGDICT-ND	5V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.17	1.86	1.52
AP1509-50SGDITR-ND	5V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2092.50/2,500		
AP1509-SGDICT-ND	Adj., 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.17	1.86	1.52
AP1509-SGDITR-ND	Adj., 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2092.50/2,500		
AP1510SLDICT-ND	Adj., PWM Control 3A Buck Converter	SOP-8	3.72	3.35	2.73
AP1510SLDITR-ND	Adj., PWM Control 3A Buck Converter	SOP-8	4122.50/2,500		
AP1512-33K5LDICT-ND	3.3V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512-33K5LDITR-ND	3.3V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2424.00/800		
AP1512-50K5LDICT-ND	5V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512-50K5LDITR-ND	5V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2424.00/800		
AP1512-K5LDICT-ND	Adj., 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512A-12K5LDICT-ND	12V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512A-12K5LDITR-ND	12V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2424.00/800		
AP1512A-50K5LDICT-ND	5V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512A-50K5LDITR-ND	5V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2424.00/800		
AP1512A-K5LDICT-ND	Adj., 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	6.06	5.46	4.45
AP1512A-K5LDITR-ND	Adj., 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2424.00/800		
AP1513SLDICT-ND	Adj., PWM Control 2A Buck Converter	SOP-8	2.08	1.79	1.46
AP1539SDPGDICT-ND	18V, 300kHZ, 4A Buck Converter ***NEW!***	8-SOIC	1.37	1.23	.98
AP1539SDPGDITR-ND	18V, 300kHZ, 4A Buck Converter ***NEW!***	8-SOIC	1260.00/2,500		
AP1603WLDICT-ND	Step-Up DC/DC Converter	SOT-26	2.91	2.49	2.04
AP1603WLDITR-ND	Step-Up DC/DC Converter	SOT-26	3363.00/3,000		
AP1609SGDICT-ND	PWM/PFM Dual Mode Step-Up DC/DC Converter	SOP-8	2.91	2.49	2.04
AP1609SGDITR-ND	PWM/PFM Dual Mode Step-Up DC/DC Converter	SOP-8	2802.50/2,500		
AP2014ASLDICT-ND	Synchronous PWM Controller	SOP-8	1.89	1.62	1.33
AP2014ASLDITR-ND	Synchronous PWM Controller	SOP-8	1822.50/2,500		
AP2101MPG-13DICT-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	8-MSOP	.75	.65	.51
AP2101MPG-13DITR-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	8-MSOP	617.50/2,500		
AP2101SG-13DICT-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	SOP-8	.75	.65	.51
AP2101SG-13DITR-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	SOP-8	617.50/2,500		
AP2111MPG-13DICT-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	8-MSOP	.75	.65	.51
AP2111MPG-13DITR-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	8-MSOP	617.50/2,500		
AP2111SG-13DICT-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	SOP-8	.75	.65	.51
AP2111SG-13DITR-ND	2.45A Single Ch. Current Limited Power Switch ***NEW!***	SOP-8	617.50/2,500		
AP2141MPGDICT-ND	0.5A Single Ch. Current Limited Power Switch	8-MSOP	.95	.85	.68
AP2141MPGDITR-ND	0.5A Single Ch. Current Limited Power Switch	8-MSOP	875.00/2,500		
AP2141SGDICT-ND	0.5A Single Ch. Current Limited Power Switch	SOP-8	.95	.85	.68
AP2141SGDITR-ND	0.5A Single Ch. Current Limited Power Switch	SOP-8	875.00/2,500		
AP2141WGDICT-ND	0.5A Single Ch. Current Limited Power Switch	SOT-25-5	.99	.86	.68
AP2141WGDITR-ND	0.5A Single Ch. Current Limited Power Switch	SOT-25-5	978.00/3,000		
AP2142MPGDICT-ND	0.5A Dual Ch. Current Limited Power Switch	8-MSOP	1.67	1.50	1.19
AP2142MPGDITR-ND	0.5A Dual Ch. Current Limited Power Switch	8-MSOP	1540.00/2,500		
AP2142SGDICT-ND	0.5A Dual Ch. Current Limited Power Switch	SOP-8	1.44	1.30	1.03
AP2142SGDITR-ND	0.5A Dual Ch. Current Limited Power Switch	SOP-8	1330.00/2,500		
AP2145MPG-13CT-ND	0.8A Single Channel USB Switch ***NEW!***	8-MSOP	1.29	1.16	.92
AP2145MPG-13TR-ND	0.8A Single Channel USB Switch ***NEW!***	8-MSOP	1185.00/2,500		
AP2145SG-13CT-ND	0.8A Single Channel USB Switch ***NEW!***	8-SOIC	1.19	1.07	.85
AP2145SG-13TR-ND	0.8A Single Channel USB Switch ***NEW!***	8-SOIC	1095.00/2,500		
AP2146MPGDICT-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1.14	1.02	.81
AP2146MPGDITR-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1050.00/2,500		
AP2146SGDICT-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	.95	.85	.68

			Price Each★		
Digi-Key Part No.	**Description**	**Pkg.**	**1**	**10**	**100**
AP2146SGDITR-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	875.00/2,500		
AP2151MPGDICT-ND	0.5A Single Ch. Current Limited Power Switch	8-MSOP	1.33	1.19	.95
AP2151MPGDITR-ND	0.5A Single Ch. Current Limited Power Switch	8-MSOP	1225.00/2,500		
AP2151SGDICT-ND	0.5A Single Ch. Current Limited Power Switch	SOP-8	.95	.85	.68
AP2151SGDITR-ND	0.5A Single Ch. Current Limited Power Switch	SOP-8	875.00/2,500		
AP2151WGDICT-ND	0.5A Single Ch. Current Limited Power Switch	SOT-25-5	.99	.86	.68
AP2151WGDITR-ND	0.5A Single Ch. Current Limited Power Switch	SOT-25-5	978.00/3,000		
AP2152MPGDICT-ND	0.5A Dual Ch. Current Limited Power Switch	8-MSOP	1.67	1.50	1.19
AP2152MPGDITR-ND	0.5A Dual Ch. Current Limited Power Switch	8-MSOP	1540.00/2,500		
AP2152SGDICT-ND	0.5A Dual Ch. Current Limited Power Switch	SOP-8	1.44	1.30	1.03
AP2152SGDITR-ND	0.5A Dual Ch. Current Limited Power Switch	SOP-8	1330.00/2,500		
AP2155MPG-13CT-ND	0.8A Single Channel USB Switch ***NEW!***	8-MSOP	1.29	1.16	.92
AP2155MPG-13TR-ND	0.8A Single Channel USB Switch ***NEW!***	8-MSOP	1185.00/2,500		
AP2155SG-13CT-ND	0.8A Single Channel USB Switch ***NEW!***	8-SOIC	1.19	1.07	.85
AP2155SG-13TR-ND	0.8A Single Channel USB Switch ***NEW!***	8-SOIC	1095.00/2,500		
AP2156MPGDICT-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1.14	1.02	.81
AP2156MPGDITR-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1050.00/2,500		
AP2156SGDICT-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	.95	.85	.68
AP2156SGDITR-ND	0.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	875.00/2,500		
AP2161FMGDICT-ND	1.0A Single Ch. Current Limited Power Switch ***NEW!***	6-DFN	.66	.57	.45
AP2161FMGDITR-ND	1.0A Single Ch. Current Limited Power Switch ***NEW!***	6-DFN	654.00/3,000		
AP2161MPGDICT-ND	1.0A Single Ch. Current Limited Power Switch	8-MSOP	.95	.85	.68
AP2161MPGDITR-ND	1.0A Single Ch. Current Limited Power Switch	8-MSOP	875.00/2,500		
AP2161SGDICT-ND	1.0A Single Ch. Current Limited Power Switch	SOP-8	.95	.85	.68
AP2161SGDITR-ND	1.0A Single Ch. Current Limited Power Switch	SOP-8	875.00/2,500		
AP2161WGDICT-ND	1.0A Single Ch. Current Limited Power Switch	SOT-25-5	.99	.86	.68
AP2161WGDITR-ND	1.0A Single Ch. Current Limited Power Switch	SOT-25-5	978.00/3,000		
AP2162MPGDICT-ND	1.0A Dual Ch. Current Limited Power Switch	8-MSOP	1.67	1.50	1.19
AP2162MPGDITR-ND	1.0A Dual Ch. Current Limited Power Switch	8-MSOP	1540.00/2,500		
AP2162SGDICT-ND	1.0A Dual Ch. Current Limited Power Switch	SOP-8	1.56	1.40	1.11
AP2162SGDITR-ND	1.0A Dual Ch. Current Limited Power Switch	SOP-8	1435.00/2,500		
AP2166MPGDICT-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1.56	1.40	1.11
AP2166MPGDITR-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1435.00/2,500		
AP2166SGDICT-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1.33	1.19	.95
AP2166SGDITR-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1225.00/2,500		
AP2171MPGDICT-ND	1.0A Single Ch. Current Limited Power Switch	8-MSOP	.95	.85	.68
AP2171MPGDITR-ND	1.0A Single Ch. Current Limited Power Switch	8-MSOP	875.00/2,500		
AP2171SGDICT-ND	1.0A Single Ch. Current Limited Power Switch	SOP-8	.99	.86	.68
AP2171SGDITR-ND	1.0A Single Ch. Current Limited Power Switch	SOP-8	815.00/2,500		
AP2171WGDICT-ND	1.0A Single Ch. Current Limited Power Switch	SOT-25-5	.99	.86	.68
AP2171WGDITR-ND	1.0A Single Ch. Current Limited Power Switch	SOT-25-5	978.00/3,000		
AP2172MPGDICT-ND	1.0A Dual Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	1.67	1.50	1.19
AP2172MPGDITR-ND	1.0A Dual Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	1540.00/2,500		
AP2172SGDICT-ND	1.0A Dual Ch. Current-Limited Power Switch ***NEW!***	8-SOIC	1.56	1.40	1.11
AP2172SGDITR-ND	1.0A Dual Ch. Current-Limited Power Switch ***NEW!***	8-SOIC	1435.00/2,500		
AP2176MPGDICT-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1.56	1.40	1.11
AP2176MPGDITR-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1435.00/2,500		
AP2176SGDICT-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1.33	1.19	.95
AP2176SGDITR-ND	1.0A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1225.00/2,500		
AP2181MPGDICT-ND	1.5A Single Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	.95	.85	.68
AP2181MPGDITR-ND	1.5A Single Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	875.00/2,500		
AP2181SGDICT-ND	1.5A Single Ch. Current Limited Power Switch	SOP-8	.95	.85	.68
AP2181SGDITR-ND	1.5A Single Ch. Current Limited Power Switch	SOP-8	875.00/2,500		
AP2182MPGDICT-ND	1.5A Dual Ch. Current Limited Power Switch	8-MSOP	1.67	1.50	1.19
AP2182MPGDITR-ND	1.5A Dual Ch. Current Limited Power Switch	8-MSOP	1540.00/2,500		
AP2182SGDICT-ND	1.5A Dual Ch. Current Limited Power Switch	SOP-8	1.56	1.40	1.11
AP2182SGDITR-ND	1.5A Dual Ch. Current Limited Power Switch	SOP-8	1435.00/2,500		
AP2186MPGDICT-ND	1.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1.79	1.53	1.25
AP2186MPGDITR-ND	1.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-MSOP	1722.50/2,500		
AP2186SGDICT-ND	1.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1.67	1.50	1.19
AP2186SGDITR-ND	1.5A Dual Ch. Current Limited Power Switch ***NEW!***	8-SOP	1540.00/2,500		
AP2191FMGDICT-ND	1.5A Single Ch. Current Limited Power Switch ***NEW!***	6-DFN	.66	.57	.45
AP2191FMGDITR-ND	1.5A Single Ch. Current Limited Power Switch ***NEW!***	6-DFN	654.00/3,000		
AP2191MPGDICT-ND	1.5A Single Ch. Current Limited Power Switch	8-MSOP	.95	.85	.68
AP2191MPGDITR-ND	1.5A Single Ch. Current Limited Power Switch	8-MSOP	875.00/2,500		
AP2191SGDICT-ND	1.5A Single Ch. Current Limited Power Switch	SOP-8	.95	.85	.68
AP2191SGDITR-ND	1.5A Single Ch. Current Limited Power Switch	SOP-8	875.00/2,500		
AP2191WGDICT-ND	1.5A Single Ch. Current Limited Power Switch	SOT-25-5	.99	.86	.68
AP2191WGDITR-ND	1.5A Single Ch. Current Limited Power Switch	SOT-25-5	978.00/3,000		
AP2192MPGDICT-ND	1.5A Dual Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	1.67	1.50	1.19
AP2192MPGDITR-ND	1.5A Dual Ch. Current-Limited Power Switch ***NEW!***	8-MSOP	1540.00/2,500		
AP2192SGDICT-ND	1.5A Dual Ch. Current Limited Power Switch	SOP-8	1.67	1.50	1.19
AP2192SGDITR-ND	1.5A Dual Ch. Current Limited Power Switch	SOP-8	1540.00/2,500		
AP2280-1FMGDICT-ND	Single Channel Controlled Load Switch	DFN2018-6	.76	.66	.52
AP2280-1FMGDITR-ND	Single Channel Controlled Load Switch	DFN2018-6	750.00/3,000		
AP2280-1WGDICT-ND	Single Channel Controlled Load Switch	SOT-25	.70	.61	.48
AP2280-1WGDITR-ND	Single Channel Controlled Load Switch	SOT-25	696.00/3,000		
AP2280-2FMGDICT-ND	Single Channel Controlled Load Switch	DFN2018-6	.75	.65	.51
AP2280-2FMGDITR-ND	Single Channel Controlled Load Switch	DFN2018-6	750.00/3,000		
AP2280-2WGDICT-ND	Single Channel Controlled Load Switch	SOT-25	.70	.61	.48
AP2280-2WGDITR-ND	Single Channel Controlled Load Switch	SOT-25	696.00/3,000		
AP2281-3FMGDICT-ND	Single Channel Controlled Load Switch ***NEW!***	6-DFN	.75	.65	.51
AP2281-3FMGDITR-ND	Single Channel Controlled Load Switch ***NEW!***	6-DFN	741.00/3,000		
AP34063N8L-UDI-ND	Universal DC/DC Converter	Dip-8	.76	.67	.52
AP34063S8GCT-ND	Universal DC/DC Converter ***NEW!***	8-SOIC	.92	.80	.63
AP34063S8GTR-ND	Universal DC/DC Converter ***NEW!***	8-SOIC	762.50/2,500		
AP34063S8LDICT-ND	Universal DC/DC Converter	SOP-8	.70	.61	.48
AP34063S8LDITR-ND	Universal DC/DC Converter	SOP-8	580.00/2,500		
AP6015-18M10GDICT-ND	1.8V Step-Down Low Power DC/DC Converter	10-MSOP	.99	.86	.68
AP6015-18M10GDITR-ND	1.8V Step-Down Low Power DC/DC Converter	10-MSOP	815.00/2,500		
AP6015-25M10GDICT-ND	2.5V Step-Down Low Power DC/DC Converter	10-MSOP	.99	.86	.68
AP6015-25M10GDITR-ND	2.5V Step-Down Low Power DC/DC Converter	10-MSOP	815.00/2,500		
AP6015-33M10GDICT-ND	3.3V Step-Down Low Power DC/DC Converter	10-MSOP	.99	.86	.68
AP6015-33M10GDITR-ND	3.3V Step-Down Low Power DC/DC Converter	10-MSOP	815.00/2,500		
AP6015-M10GDICT-ND	Adj., Step-Down Low Power DC/DC Converter ***NEW!***	10-MSOP	.99	.86	.68
AP6015-M10GDITR-ND	Adj., Step-Down Low Power DC/DC Converter ***NEW!***	10-MSOP	815.00/2,500		
AP6714M10GDICT-ND	1.8MHz Synchronous Boost Converter	10-MSOP	.99	.86	.68
AP6714M10GDITR-ND	1.8MHz Synchronous Boost Converter	10-MSOP	815.00/2,500		
APX321WGDICT-ND	Single R-R Low Voltage Op Amp	SOT-25	.58	.47	.35
APX321WGDITR-ND	Single R-R Low Voltage Op Amp	SOT-25	489.00/3,000		
APX809-23SAGDICT-ND	MPU Reset Circuit Low 2.25V	SOT-23	.50	.40	.30
APX809-23SAGDITR-ND	MPU Reset Circuit Low 2.25V	SOT-23	420.00/3,000		
APX809-26SAGDICT-ND	MPU Reset Circuit Low 2.63V	SOT-23	.50	.40	.30
APX809-26SAGDITR-ND	MPU Reset Circuit Low 2.63V	SOT-23	420.00/3,000		
APX809-26SRGDICT-ND	MPU Reset Circuit Low 2.63V	SOT-23R	.50	.40	.30
APX809-26SRGDITR-ND	MPU Reset Circuit Low 2.63V	SOT-23R	420.00/3,000		
APX809-29SAGDICT-ND	MPU Reset Circuit Low 2.93V	SOT-23	.50	.40	.30

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(Continued)

POWER MANAGEMENT

(Cont.)

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
APX809-29SAGDITR-ND	MPU Reset Circuit Low 2.93V	SOT-23	420.00/3,000		
APX809-29SRGDICT-ND	MPU Reset Circuit Low 2.93V	SOT-23R	.50	.40	.30
APX809-29SRGDITR-ND	MPU Reset Circuit Low 2.93V	SOT-23R	420.00/3,000		
APX809-31SAGDICT-ND	MPU Reset Circuit Low 3.08V	SOT-23	.50	.40	.30
APX809-31SAGDITR-ND	MPU Reset Circuit Low 3.08V	SOT-23	420.00/3,000		
APX809-31SRGDICT-ND	MPU Reset Circuit Low 3.08V	SOT-23R	.50	.40	.30
APX809-31SRGDITR-ND	MPU Reset Circuit Low 3.08V	SOT-23R	420.00/3,000		
APX809-40SAGDICT-ND	MPU Reset Circuit Low 4.00V	SOT-23	.50	.40	.30
APX809-40SAGDITR-ND	MPU Reset Circuit Low 4.00V	SOT-23	420.00/3,000		
APX809-44SAGDICT-ND	MPU Reset Circuit Low 4.38V	SOT-23	.50	.40	.30
APX809-44SAGDITR-ND	MPU Reset Circuit Low 4.38V	SOT-23	420.00/3,000		
APX809-46SAGDICT-ND	MPU Reset Circuit Low 4.63V	SOT-23	.50	.40	.30
APX809-46SAGDITR-ND	MPU Reset Circuit Low 4.63V	SOT-23	420.00/3,000		
APX809-46SRGDICT-ND	MPU Reset Circuit Low 4.63V	SOT-23R	.50	.40	.30
APX809-46SRGDITR-ND	MPU Reset Circuit Low 4.63V	SOT-23R	420.00/3,000		
APX810-26SAGDICT-ND	MPU Reset Circuit High 2.63V	SOT-23	.50	.40	.30
APX810-26SAGDITR-ND	MPU Reset Circuit High 2.63V	SOT-23	420.00/3,000		
APX810-29SAGDICT-ND	MPU Reset Circuit High 2.93V	SOT-23	.50	.40	.30
APX810-29SAGDITR-ND	MPU Reset Circuit High 2.93V	SOT-23	420.00/3,000		
APX810-31SRGDICT-ND	MPU Reset Circuit High 3.08V	SOT-23R	.50	.40	.30
APX810-31SRGDITR-ND	MPU Reset Circuit High 3.08V	SOT-23R	420.00/3,000		
APX810-40SAGDICT-ND	MPU Reset Circuit High 4.00V	SOT-23	.50	.40	.30
APX810-40SAGDITR-ND	MPU Reset Circuit High 4.00V	SOT-23	420.00/3,000		
APX810-46SAGDICT-ND	MPU Reset Circuit High 4.63V	SOT-23	.50	.40	.30
APX810-46SAGDITR-ND	MPU Reset Circuit High 4.63V	SOT-23	420.00/3,000		
APX811-29UG-7DICT-ND	Supervisor Circuit Low 2.93V ***NEW!***	SOT143-4	.50	.40	.30
APX811-29UG-7DITR-ND	Supervisor Circuit Low 2.93V ***NEW!***	SOT143-4	420.00/3,000		
APX811-31UG-7DICT-ND	Supervisor Circuit Low 3.08V ***NEW!***	SOT143-4	.50	.40	.30
APX811-31UG-7DITR-ND	Supervisor Circuit Low 3.08V ***NEW!***	SOT143-4	420.00/3,000		
APX811-46UG-7DICT-ND	Supervisor Circuit Low 4.63V ***NEW!***	SOT143-4	.50	.40	.30
APX811-46UG-7DITR-ND	Supervisor Circuit Low 4.63V ***NEW!***	SOT143-4	420.00/3,000		
APX823-23W5GDICT-ND	Supervisor Circuit Low 2.25V	SOT-25	.52	.42	.31
APX823-23W5GDITR-ND	Supervisor Circuit Low 2.25V	SOT-25	435.00/3,000		
APX823-26W5GDICT-ND	Supervisor Circuit Low 2.63V	SOT-25	.52	.42	.31
APX823-26W5GDITR-ND	Supervisor Circuit Low 2.63V	SOT-25	435.00/3,000		
APX823-29W5GDICT-ND	Supervisor Circuit Low 2.93V	SOT-25	.52	.42	.31
APX823-29W5GDITR-ND	Supervisor Circuit Low 2.93V	SOT-25	435.00/3,000		
APX823-31W5GDICT-ND	Supervisor Circuit Low 3.08V	SOT-25	.52	.42	.31
APX823-31W5GDITR-ND	Supervisor Circuit Low 3.08V	SOT-25	435.00/3,000		
APX825A-29W6GDICT-ND	Supervisor Circuit Low/High 2.93V	SOT-26	.58	.47	.35
APX825A-29W6GDITR-ND	Supervisor Circuit Low/High 2.93V	SOT-26	489.00/3,000		
APX825A-31W6GDICT-ND	Supervisor Circuit Low/High 3.08V	SOT-26	.58	.47	.35
APX825A-31W6GDITR-ND	Supervisor Circuit Low/High 3.08V	SOT-26	489.00/3,000		
APX825A-46W6GDICT-ND	Supervisor Circuit Low/High 4.63V	SOT-26	.58	.47	.35
APX825A-46W6GDITR-ND	Supervisor Circuit Low/High 4.63V	SOT-26	489.00/3,000		
LMV321SEG-7DICT-ND	Single Channel R-R Output Op Amp ***NEW!***	SOT-353-5	.50	.40	.30
LMV321SEG-7DITR-ND	Single Channel R-R Output Op Amp ***NEW!***	SOT-353-5	420.00/3,000		
LMV321WG-7DICT-ND	Single Channel R-R Output Op Amp ***NEW!***	SOT-25	.50	.40	.30
LMV321WG-7DITR-ND	Single Channel R-R Output Op Amp ***NEW!***	SOT-25	420.00/3,000		
LMV324TSG-13DICT-ND	Quad Channel R-R Output Op Amp ***NEW!***	14-TSSOP	.97	.84	.66
LMV324TSG-13DITR-ND	Quad Channel R-R Output Op Amp ***NEW!***	14-TSSOP	797.50/2,500		
LMV358M8G-13DICT-ND	Dual Channel R-R Output Op Amp ***NEW!***	8-MSOP	.74	.60	.45
LMV358M8G-13DITR-ND	Dual Channel R-R Output Op Amp ***NEW!***	8-MSOP	522.50/2,500		
LMV358SG-13DICT-ND	Dual Channel R-R Output Op Amp ***NEW!***	8-SOIC	.66	.53	.40
LMV358SG-13DITR-ND	Dual Channel R-R Output Op Amp ***NEW!***	8-SOIC	465.00/2,500		
TL072SG-13DICT-ND	Dual Channel JFET Input Op Amp ***NEW!***	8-SOIC	.62	.49	.34
TL072SG-13DITR-ND	Dual Channel JFET Input Op Amp ***NEW!***	8-SOIC	350.00/2,500		
TL082SG-13DICT-ND	Dual Channel JFET Input Op Amp ***NEW!***	8-SOIC	.62	.49	.34
TL082SG-13DITR-ND	Dual Channel JFET Input Op Amp ***NEW!***	8-SOIC	350.00/2,500		

NEW! SPECIALIZED INTEGRATED CIRCUITS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	100
	Lighting ICs				
AP3156FVG-7DICT-ND	20mA White LED Driver	16-QFN	.97	.84	.66
AP3156FVG-7DITR-ND	20mA White LED Driver	16-QFN	528.00/1,500		
AP5724FDCGDICT-ND	750mA White LED Driver	6-DFN	.66	.57	.45
AP5724FDCGDITR-ND	750mA White LED Driver	6-DFN	654.00/3,000		
AP5724WG-7DICT-ND	750mA White LED Driver	SOT-26	.72	.58	.43
AP5724WG-7DITR-ND	750mA White LED Driver	SOT-26	606.00/3,000		
AP5725FDCGDICT-ND	750mA White LED Driver	6-DFN	.66	.57	.45
AP5725FDCGDITR-ND	750mA White LED Driver	6-DFN	654.00/3,000		
AP5726FDCGDICT-ND	750mA White LED Driver	6-DFN	.66	.57	.45
AP5726FDCGDITR-ND	750mA White LED Driver	6-DFN	654.00/3,000		
AP5727WG-7DICT-ND	OLED Display/TFT-LCD Bias Power Supply	SOT-25	.70	.61	.48
AP5727WG-7DITR-ND	OLED Display/TFT-LCD Bias Power Supply	SOT-25	696.00/3,000		
AP8800FNGDICT-ND	350mA Constant Current LED Driver	10-DFN	1.46	1.31	1.04
AP8800FNGDITR-ND	350mA Constant Current LED Driver	10-DFN	1617.00/3,000		
AP8800M8GDICT-ND	350mA Constant Current LED Driver	8-MSOP	1.33	1.19	.95
AP8800M8GDITR-ND	350mA Constant Current LED Driver	8-MSOP	1225.00/2,500		
AP8800SGDICT-ND	350mA Constant Current LED Driver	8-SOIC	1.33	1.19	.95
AP8800SGDITR-ND	350mA Constant Current LED Driver	8-SOIC	1225.00/2,500		
AP8801M8GDICT-ND	500mA Constant Current LED Driver	8-MSOP	1.60	1.43	1.14
AP8801M8GDITR-ND	500mA Constant Current LED Driver	8-MSOP	1470.00/2,500		
AP8801SGDICT-ND	500mA Constant Current LED Driver	8-SOIC	1.60	1.43	1.14
AP8801SGDITR-ND	500mA Constant Current LED Driver	8-SOIC	1470.00/2,500		
AP8802FNGDICT-ND	1A Constant Current LED Driver	10-DFN	2.12	1.82	1.49
AP8802FNGDITR-ND	1A Constant Current LED Driver	10-DFN	2451.00/3,000		
AP8802SGDICT-ND	1A Constant Current LED Driver	8-SOIC	1.76	1.52	1.24
AP8802SGDITR-ND	1A Constant Current LED Driver	8-SOIC	1700.00/2,500		
AP8802SPGDICT-ND	1A Constant Current LED Driver	8-SOIC	2.12	1.82	1.49
AP8802SPGDITR-ND	1A Constant Current LED Driver	8-SOIC	2042.50/2,500		
AP8803WTG-7DICT-ND	1A Constant Current LED Driver	TSOT23-5	1.75	1.50	1.23
AP8803WTG-7DITR-ND	1A Constant Current LED Driver	TSOT23-5	2025.00/3,000		
DLD101-7CT-ND	Linear Mode Current Sink LED Driver	8-DFN	.95	.85	.68
DLD101-7TR-ND	Linear Mode Current Sink LED Driver	8-DFN	1050.00/3,000		

NEW! DEVELOPMENT BOARDS

EPC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EPC9001	917-1010-ND	Development Board for EPC1015	—	95.00	—	—
EPC9002	917-1011-ND	Development Board for EPC1001	—	95.00	—	—

HALL-EFFECT SENSOR ICs

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Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
A1101LLHLT-T	620-1000-1-ND	Continuous-Time Switch	SOT-23W	2.02	1.80	1.57
A1101LLHLT-T	620-1000-2-ND	Continuous-Time Switch	SOT-23W	2184.00/3,000		
A1101LUA-T	620-1001-ND	Continuous-Time Switch	3-SIP	1.68	1.46	1.29
A1102LLHLT-T	620-1002-1-ND	Continuous-Time Switch	SOT-23W	2.02	1.80	1.57
A1102LLHLT-T	620-1002-2-ND	Continuous-Time Switch	SOT-23W	2184.00/3,000		
A1120ELHLT-T	620-1275-1-ND	Precision Hall Effect Switch	SOT-23W	1.35	1.19	1.05
A1120ELHLT-T	620-1275-2-ND	Precision Hall Effect Switch	SOT-23W	1458.00/3,000		
A1120LLHLT-T	620-1276-1-ND	Precision Hall Effect Switch	SOT-23W	1.58	1.39	1.22
A1120LLHLT-T	620-1276-2-ND	Precision Hall Effect Switch	SOT-23W	1701.00/3,000		
A1120LUA-T	620-1330-ND	Precision Hall Effect Switch ***NEW!***	3-SIP	1.37	1.22	1.05
A1125LLHLT-T	620-1333-1-ND	Precision Hall Effect Switch ***NEW!***	SOT-23	1.43	1.26	1.11
A1125LLHLT-T	620-1333-2-ND	Precision Hall Effect Switch ***NEW!***	SOT-23	1539.00/3,000		
A1171EEWLT-P	620-1232-1-ND	Ultra-Sensitive Hall Effect Switch	6-DFN/MLP	1.01	.90	.79
A1171EEWLT-P	620-1232-2-ND	Ultra-Sensitive Hall Effect Switch	6-DFN/MLP	1095.00/3,000		
A1172ECGLT	620-1244-1-ND	Ultra-Sensitive Hall Effect Switch	4-WLCSP	1.09	.96	.85
A1172ECGLT	620-1244-2-ND	Ultra-Sensitive Hall Effect Switch	4-WLCSP	1568.00/4,000		
A1174EEWLT-P	620-1251-1-ND	Ultra-Sensitive Hall Effect Latch	6-MLP/DFN	1.20	1.06	.93
A1174EEWLT-P	620-1251-2-ND	Ultra-Sensitive Hall Effect Latch	6-MLP/DFN	1296.00/3,000		
A1203LLHLT-T	620-1011-1-ND	Continuous-Time Bipolar Switch	SOT-23	1.80	1.59	1.40
A1203LLHLT-T	620-1011-2-ND	Continuous-Time Bipolar Switch	SOT-23	1944.00/3,000		
A1203LUA-T	620-1012-ND	Continuous-Time Bipolar Switch	3-SIP	1.56	1.40	1.20
A1211LUA-T	620-1016-ND	Continuous-Time Latch	3-SIP	1.46	1.31	1.13
A1212LLHLT-T	620-1017-2-ND	Continuous-Time Latch	SOT-23W	2301.00/3,000		
A1220ELHLT-T	620-1277-1-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1.35	1.19	1.05
A1220ELHLT-T	620-1277-2-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1458.00/3,000		
A1220LLHLT-T	620-1278-1-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1.58	1.39	1.22
A1220LLHLT-T	620-1278-2-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1701.00/3,000		
A1221ELHLT-T	620-1279-1-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1.35	1.19	1.05
A1221ELHLT-T	620-1279-2-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1458.00/3,000		
A1221LLHLT-T	620-1280-1-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1.58	1.39	1.22
A1221LLHLT-T	620-1280-2-ND	Chopper Stabilized Precision Hall Effect Sensor	SOT-23W	1701.00/3,000		
A1222LLHLT-T	620-1332-1-ND	Chopper Stabilized Precision Hall Effect Sensor ***NEW!***	SOT-23W	1.35	1.19	1.05
A1222LLHLT-T	620-1332-2-ND	Chopper Stabilized Precision Hall Effect Sensor ***NEW!***	SOT-23W	1458.00/3,000		
A1302KLHLT-T	620-1021-1-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1.58	1.39	1.22
A1302KLHLT-T	620-1021-2-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1701.00/3,000		
A1302KUA-T	620-1022-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	3-SIP	1.37	1.22	1.05
A1321LLHLT-T	620-1023-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	2.09	1.86	1.63
A1321LUA-T	620-1024-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.74	1.51	1.34
A1351LKTTN-T	620-1228-1-ND	High Prec. Linear Hall Effect Sensor	4-SIP	4.31	3.33	2.96
A1351LKTTN-T	620-1228-2-ND	High Prec. Linear Hall Effect Sensor	4-SIP	6296.00/4,000		
A1354KKT-T	620-1317-ND	High Precision Linear Hall Effect Sensor ***NEW!***	4-SIP	3.02	2.60	2.27
A1360LKTTN-T	620-1233-1-ND	Low Noise Hall Effect Sensor	4-SIP	3.99	3.08	2.74
A1360LKTTN-T	620-1233-2-ND	Low Noise Hall Effect Sensor	4-SIP	5836.00/4,000		
A1361LKTTN-T	620-1234-1-ND	Low Noise Hall Effect Sensor	4-SIP	3.99	3.08	2.74
A1361LKTTN-T	620-1234-2-ND	Low Noise Hall Effect Sensor	4-SIP	5836.00/4,000		
A1362LKTTN-T	620-1235-1-ND	Low Noise Hall Effect Sensor	4-SIP	3.99	3.08	2.74
A1362LKTTN-T	620-1235-2-ND	Low Noise Hall Effect Sensor	4-SIP	5836.00/4,000		
A1374LKB-T	620-1030-ND	High Prec., Output Pin Programmable Linear Hall Effect Sensors	3-SIP	2.58	2.24	1.98
A1381LLHLT-T	620-1196-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3.56	3.17	2.78
A1381LLHLT-T	620-1196-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3861.00/3,000		
A1382LLHLT-T	620-1197-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3.56	3.17	2.78
A1382LLHLT-T	620-1197-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3861.00/3,000		
A1383LLHLT-T	620-1198-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3.56	3.17	2.78
A1383LLHLT-T	620-1198-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3861.00/3,000		
A1384LLHLT-T	620-1199-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3.56	3.17	2.78
A1384LLHLT-T	620-1199-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3861.00/3,000		
A1386LLHLT-T	620-1272-1-ND	Field-Programmable 5V Linear Hall Effect Sensor	SOT-23W	3.13	2.79	2.44
A1386LLHLT-T	620-1272-2-ND	Field-Programmable 5V Linear Hall Effect Sensor	SOT-23W	3393.00/3,000		
A1391SEHLT-T	620-1031-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.87	1.67	1.46
A1391SEHLT-T	620-1031-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	2028.00/3,000		
A1392SEHLT-T	620-1032-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.87	1.67	1.46
A1392SEHLT-T	620-1032-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	2028.00/3,000		
A1393SEHLT-T	620-1172-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.87	1.67	1.46
A1393SEHLT-T	620-1172-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	2028.00/3,000		
A1395SEHLT-T	620-1173-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.87	1.67	1.46

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(Continued)

HALL-EFFECT SENSOR ICs (Cont.)

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
A1395SEHLT-T	620-1173-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	2028.00/3,000		
A3211EEHLT-T	620-1034-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1.16	1.03	.90
A3211EEHLT-T	620-1034-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1257.00/3,000		
A3211EELLT-T	620-1035-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1.09	.96	.85
A3211EELLT-T	620-1035-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1176.00/3,000		
A3211ELHLT-T	620-1036-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1.20	1.06	.93
A3211ELHLT-T	620-1036-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1296.00/3,000		
A3212EEHLT-T	620-1037-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.85	.68	.61
A3212EELLT-T	620-1038-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.96	.82	.72
A3212EELLT-T	620-1038-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1008.00/3,000		
A3212ELHLT-T	620-1039-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	.98	.86	.76
A3212ELHLT-T	620-1039-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1053.00/3,000		
A3212EUA-T	620-1040-ND	Micropower, Ultra-Sensitive Hall Effect Switch	3-SIP	1.01	.90	.78
A3213ELHLT-T	620-1041-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1.31	1.16	1.02
A3213ELHLT-T	620-1041-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1419.00/3,000		
A3213LLHLT-T	620-1042-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1.80	1.60	1.40
A3213LLHLT-T	620-1042-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1950.00/3,000		
A3213LUA-T	620-1043-ND	Micropower, Ultra-Sensitive Hall Effect Switch	3-SIP	1.50	1.30	1.15
A3230LLHLT-T	620-1044-1-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT-23W	1.54	1.36	1.19
A3230LLHLT-T	620-1044-2-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT-23W	1662.00/3,000		
A3230LUA-T	620-1045-ND	Chopper Stabilized Hall Effect Biploar Switch	3-SIP	1.33	1.19	1.03
A3290KLHLT-T	620-1240-1-ND	Chopper Stabilized Hall Effect Latch	SOT-23	1.05	.83	.75
A3291KLHLT-T	620-1241-1-ND	Chopper Stabilized Hall Effect Latch	SOT-23	1.05	.83	.75
ACS710KLATR-12CB-T	620-1335-1-ND	High Voltage Isolation Current Sensor ***NEW!***	16-SOIC	4.48	3.46	3.08
ACS710KLATR-12CB-T	620-1335-2-ND	High Voltage Isolation Current Sensor ***NEW!***	16-SOIC	1728.00/1,000		
ACS710KLATR-25CB-T	620-1334-1-ND	High Voltage Isolation Current Sensor ***NEW!***	16-SOIC	4.48	3.46	3.08
ACS710KLATR-25CB-T	620-1334-2-ND	High Voltage Isolation Current Sensor ***NEW!***	16-SOIC	1728.00/1,000		
ACS712ELCTR-05B-T	620-1189-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.52	3.49	3.10
ACS712ELCTR-05B-T	620-1189-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4953.00/3,000		
ACS712ELCTR-20A-T	620-1190-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.52	3.49	3.10
ACS712ELCTR-20A-T	620-1190-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4953.00/3,000		
ACS712ELCTR-30A-T	620-1191-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.52	3.49	3.10
ACS712ELCTR-30A-T	620-1191-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4953.00/3,000		
ACS713ELCTR-20A-T	620-1192-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.52	3.49	3.10
ACS713ELCTR-20A-T	620-1192-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4953.00/3,000		
ACS713ELCTR-30A-T	620-1193-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.52	3.49	3.10
ACS713ELCTR-30A-T	620-1193-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4953.00/3,000		
ACS714LLCTR-05B-T	620-1225-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.73	3.65	3.24
ACS714LLCTR-05B-T	620-1225-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	5184.00/3,000		
ACS714LLCTR-20A-T	620-1226-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.73	3.65	3.24
ACS714LLCTR-20A-T	620-1226-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	5184.00/3,000		
ACS714LLCTR-30A-T	620-1229-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.73	3.65	3.24
ACS714LLCTR-30A-T	620-1229-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	5184.00/3,000		
ACS715LLCTR-20A-T	620-1230-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.73	3.65	3.24
ACS715LLCTR-20A-T	620-1230-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	5184.00/3,000		
ACS715LLCTR-30A-T	620-1231-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4.73	3.65	3.24
ACS715LLCTR-30A-T	620-1231-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	5184.00/3,000		
ACS756SCA-050B-PFF-T	620-1237-ND	Hall Effect-Based Linear Current Sensor	5-PIN	6.44	5.52	4.83
ACS756SCA-100B-PFF-T	620-1238-ND	Hall Effect-Based Linear Current Sensor	5-PIN	6.44	5.52	4.83
ACS756KCA-050B-PFF-T	620-1239-ND	Hall Effect-Based Linear Current Sensor	5-PIN	6.35	5.59	4.83
ACS758LCB-050B-PFF-T	620-1320-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32
ACS758LCB-100B-PFF-T	620-1321-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32
ACS758KCB-150B-PFF-T	620-1322-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32
ACS758ECB-200B-PFF-T	620-1323-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32
ACS758KCB-150B-PSS-T	620-1324-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32
ACS758ECB-200B-PSS-T	620-1325-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-CB	7.00	6.16	5.32

MOTOR DRIVERS

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
A1441EELLT-T	620-1167-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.54	1.22	1.10
A1441EELLT-T	620-1167-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1698.00/3,000		
A1442EEWLT-P	620-1210-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.54	1.36	1.19
A1442EEWLT-P	620-1210-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1662.00/3,000		
A1444EEWLT-P	620-1242-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.44	1.14	1.03
A1445EEWLT-P	620-1243-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.44	1.14	1.03
A1448EEWLT-P	620-1274-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.61	1.42	1.25

MOTOR DRIVERS (Cont.)

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
A1448EEWLT-P	620-1274-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1743.00/3,000		
A2982SLWTR-T	620-1127-1-ND	8-Channel Source Driver	20-SOIC	2.84	2.53	2.22
A2982SLWTR-T	620-1127-2-ND	8-Channel Source Driver	20-SOIC	1086.00/1,000		
A3903EEETR-T	620-1205-1-ND	Low Voltage DC Motor Driver	8-DFN	1.28	1.13	.99
A3903EEETR-T	620-1205-2-ND	Low Voltage DC Motor Driver	8-DFN	1377.00/3,000		
A3904EEWTR-P	620-1216-1-ND	Low Voltage Voice Coil Motor Driver	6-DFN	1.20	1.06	.93
A3904EEWTR-P	620-1216-2-ND	Low Voltage Voice Coil Motor Driver	6-DFN	1296.00/3,000		
A3906SESTR-T	620-1288-1-ND	Low Voltage Stepper and Dual DC Motor Driver	20-QFN	2.02	1.80	1.57
A3906SESTR-T	620-1288-2-ND	Low Voltage Stepper and Dual DC Motor Driver	20-QFN	1155.00/1,500		
A3907ECGTR	620-1318-1-ND	Low Voltage Voice Coil Motor Driver ***NEW!***	6-WLCSP	.98	.86	.76
A3907ECGTR	620-1318-2-ND	Low Voltage Voice Coil Motor Driver ***NEW!***	6-WLCSP	1404.00/4,000		
A3908EEETR-T	620-1282-1-ND	Low Voltage DC Motor Driver	8-DFN	1.28	1.13	.99
A3908EEETR-T	620-1282-2-ND	Low Voltage DC Motor Driver	8-DFN	1377.00/3,000		
A3930KJPTR-T	620-1289-1-ND	Automotive 3-Phase BLDC Controller/ MOSFET Driver	48-LQFP	8.44	6.51	5.79
A3930KJPTR-T	620-1289-2-ND	Automotive 3-Phase BLDC Controller/ MOSFET Driver	48-LQFP	4881.00/1,500		
A3931KJPTR-T	620-1290-1-ND	Automotive 3-Phase BLDC Controller/ MOSFET Driver	48-LQFP	8.44	6.51	5.79
A3931KJPTR-T	620-1290-2-ND	Automotive 3-Phase BLDC Controller/ MOSFET Driver	48-LQFP	4881.00/1,500		
A3932SLDTR-T	620-1291-1-ND	3-Phase Pwr MOSFET Driver	38-TSSOP	5.25	4.05	3.60
A3932SLDTR-T	620-1291-2-ND	3-Phase Pwr MOSFET Driver	38-TSSOP	7680.00/4,000		
A3935KLQTR-T	620-1292-1-ND	Automotive 3-Phase Power MOSFET Controller	36-QSOP	8.37	6.46	5.74
A3935KLQTR-T	620-1292-2-ND	Automotive 3-Phase Power MOSFET Controller	36-QSOP	4840.50/1,500		
A3938SLDTR-T	620-1130-1-ND	3-Phase Power MOSFET Controller	38-TSSOP	8.91	7.43	6.84
A3938SLDTR-T	620-1130-2-ND	3-Phase Power MOSFET Controller	38-TSSOP	15148.00/4,000		
A3941KLPTR-T	620-1236-1-ND	Automotive Full-Bridge MOSFET Driver	28-TSSOP	5.15	3.97	3.53
A3941KLPTR-T	620-1236-2-ND	Automotive Full-Bridge MOSFET Driver	28-TSSOP	7528.00/4,000		
A3949SLBTR-T	620-1131-1-ND	DMOS Full-Bridge Motor Driver	16-SOIC	5.11	3.95	3.51
A3949SLBTR-T	620-1131-2-ND	DMOS Full-Bridge Motor Driver	16-SOIC	1971.00/1,000		
A3950SEUTR-T	620-1296-1-ND	DMOS Full-Bridge Motor Driver	16-QFN	3.75	2.89	2.57
A3950SEUTR-T	620-1296-2-ND	DMOS Full-Bridge Motor Driver	16-QFN	2167.50/1,500		
A3950SLPTR-T	620-1297-1-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	4.52	3.49	3.10
A3950SLPTR-T	620-1297-2-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	6604.00/4,000		
A3953SB-T	620-1065-ND	Full-Bridge PWM Motor Driver	16-Dip	3.75	3.22	2.82
A3953SLBTR-T	620-1133-1-ND	Full-Bridge PWM Motor Driver	16-SOIC	4.69	3.62	3.22
A3953SLBTR-T	620-1133-2-ND	Full-Bridge PWM Motor Driver	16-SOIC	1809.00/1,000		
A3955SB-T	620-1067-ND	Full-Bridge PWM Microstepping Motor Dvr.	16-Dip	3.58	3.08	2.69
A3955SLBTR-T	620-1134-1-ND	Full-Bridge PWM Motor Driver	16-SOIC	4.48	3.46	3.08
A3955SLBTR-T	620-1134-2-ND	Full-Bridge PWM Motor Driver	16-SOIC	1728.00/1,000		
A3959SB-T	620-1069-ND	DMOS Full-Bridge PWM Motor Driver	24-Dip	5.91	5.07	4.44
A3959SLBTR-T	620-1136-1-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	7.39	5.70	5.07
A3959SLBTR-T	620-1136-2-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	2849.00/1,000		
A3959SLPTR-T	620-1137-1-ND	DMOS Full-Bridge PWM Motor Driver	28-TSSOP	7.56	5.84	5.19
A3959SLPTR-T	620-1137-2-ND	DMOS Full-Bridge PWM Motor Driver	28-TSSOP	11060.00/4,000		
A3966SLBTR-T	620-1139-1-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	3.68	2.84	2.52
A3966SLBTR-T	620-1139-2-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	1418.00/1,000		
A3967SLBTR-T	620-1140-1-ND	Microstepping Driver with Translator	24-SOIC	4.27	3.30	2.93
A3967SLBTR-T	620-1140-2-ND	Microstepping Driver with Translator	24-SOIC	1647.00/1,000		
A3968SLBTR-T	620-1141-1-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	4.87	3.76	3.34
A3968SLBTR-T	620-1141-2-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	1877.00/1,000		
A3969SETTR-T	620-1175-1-ND	Dual Full-Bridge PWM Motor Driver	28-QFN	3.35	2.98	2.61
A3969SETTR-T	620-1175-2-ND	Dual Full-Bridge PWM Motor Driver	28-QFN	1918.50/1,500		
A3977KEDTR-T	620-1144-1-ND	Microstepping DMOS Driver with Translator	44-PLCC	9.21	7.68	7.07
A3977KEDTR-T	620-1144-2-ND	Microstepping DMOS Driver with Translator	44-PLCC	2210.40/450		
A3977SEDTR-T	620-1146-1-ND	Microstepping DMOS Driver with Translator	44-PLCC	8.31	6.93	6.38
A3977SEDTR-T	620-1146-2-ND	Microstepping DMOS Driver with Translator	44-PLCC	1994.40/450		
A3977SLPTR-T	620-1147-1-ND	Microstepping DMOS Driver with Translator	28-TSSOP	8.31	6.93	6.38
A3977SLPTR-T	620-1147-2-ND	Microstepping DMOS Driver with Translator	28-TSSOP	14128.00/4,000		
A3979SLPTR-T	620-1148-1-ND	Microstepping DMOS Driver with Translator	28-TSSOP	8.31	6.93	6.38
A3979SLPTR-T	620-1148-2-ND	Microstepping DMOS Driver with Translator	28-TSSOP	14128.00/4,000		
A3980KLPTR-T	620-1298-1-ND	Automotive DMOS Microstepping Driver with Translator	28-TSSOP	8.26	6.38	5.67
A3980KLPTR-T	620-1298-2-ND	Automotive DMOS Microstepping Driver with Translator	28-TSSOP	11008.00/4,000		
A3982SLBTR-T	620-1299-1-ND	DMOS Stepper Motor Driver with Translator	24-SOIC	5.81	4.49	3.99
A3982SLBTR-T	620-1299-2-ND	DMOS Stepper Motor Driver with Translator	24-SOIC	2241.00/1,000		
A3983SLPTR-T	620-1149-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	6.27	4.84	4.30
A3983SLPTR-T	620-1149-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	9164.00/4,000		
A3984SLPTR-T	620-1150-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	6.27	4.84	4.30
A3984SLPTR-T	620-1150-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	9164.00/4,000		
A3985SLDTR-T	620-1180-1-ND	Digitally Programmable Dual Full-Bridge MOSFET Driver	38-TSSOP	8.79	7.33	6.74
A3985SLDTR-T	620-1180-2-ND	Digitally Programmable Dual Full-Bridge MOSFET Driver	38-TSSOP	14944.00/4,000		
A3987SLPTR-T	620-1171-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	6.97	5.38	4.78
A3987SLPTR-T	620-1171-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	10188.00/4,000		
A3988SEVTR-T	620-1176-1-ND	Quad DMOS Full-Bridge PWM Motor Driver	36-QFN	5.92	4.57	4.06
A3988SEVTR-T	620-1176-2-ND	Quad DMOS Full-Bridge PWM Motor Driver	36-QFN	3423.00/1,500		
A3989SEVTR-T	620-1183-1-ND	Bipolar Stepper and High Current DC Motor Driver	36-QFN	5.92	4.57	4.06
A3989SEVTR-T	620-1183-2-ND	Bipolar Stepper and High Current DC Motor Driver	36-QFN	3423.00/1,500		
A3995SEVTR-T	620-1184-1-ND	Dual DMOS Full-Bridge PWM Motor Driver	36-QFN	5.92	4.57	4.06
A3995SEVTR-T	620-1184-2-ND	Dual DMOS Full-Bridge PWM Motor Driver	36-QFN	3423.00/1,500		
A4930METTR-T	620-1227-1-ND	Single Phase Fan Predriver	28-QFN	2.12	1.89	1.66
A4930METTR-T	620-1227-2-ND	Single Phase Fan Predriver	28-QFN	1216.50/1,500		
A4931METTR-T	620-1214-1-ND	3 Phase DC Motor Predriver	28-QFN	2.74	2.44	2.13
A4931METTR-T	620-1214-2-ND	3 Phase DC Motor Predriver	28-QFN	1567.50/1,500		
A4983SETTR-T	620-1194-1-ND	DMOS Microstepping Driver	28-QFN	4.97	3.84	3.41
A4983SETTR-T	620-1194-2-ND	DMOS Microstepping Driver	28-QFN	2875.50/1,500		
A8504EECTR-T	620-1215-1-ND	WLED/RGB Backlight Driver	26-QFN	3.85	2.97	2.64
A8504EECTR-T	620-1215-2-ND	WLED/RGB Backlight Driver	26-QFN	2227.50/1,500		
A8904SLPTR-T	620-1154-1-ND	3-Phase Brushless DC Motor Controller/ Driver with Back-EMF Sensing	28-TSSOP	10.34	8.77	8.10
UDN2916EBTR-T	620-1155-1-ND	Dual Full-Bridge PWM Motor Driver	44-PLCC	8.51	6.57	5.84
UDN2916EBTR-T	620-1155-2-ND	Dual Full-Bridge PWM Motor Driver	44-PLCC	1858.95/450		
UDN2916LBTR-T	620-1156-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	5.50	4.24	3.77
UDN2916LBTR-T	620-1156-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2120.00/1,000		
UDN2916B-T	620-1118-ND	Dual Full-Bridge PWM Motor Driver	24-Dip	4.40	3.77	3.30

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

MOTOR DRIVERS

Allegro MicroSystems, Inc. Digi-Reel® *(Cont.)*

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UDQ2916LBTR-T	620-1158-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	6.06	4.68	4.16
UDQ2916LBTR-T	620-1158-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2336.00/1,000		

POWER MANAGEMENT

Allegro MicroSystems, Inc. Digi-Reel®

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A2550KLPTR-T	620-1182-1-ND	Automotive Relay Driver with 5V Reg.	16-TSSOP	2.74	2.44	2.13
A2550KLPTR-T	620-1182-2-ND	Automotive Relay Driver with 5V Reg.	16-TSSOP	3952.00/4,000		
A2557SLBTR-T	620-1287-1-ND	Protected Quad Driver	16-SOIC	2.20	1.76	1.32
A3946KLPTR-T	620-1295-1-ND	Half Bridge Power MOSFET Controller	16-TSSOP	4.45	3.43	3.05
A3946KLPTR-T	620-1295-2-ND	Half Bridge Power MOSFET Controller	16-TSSOP	6504.00/4,000		
A3986SLDTR-T	620-1166-1-ND	Dual Full-Bridge MOSFET Driver with Microstepping Translator	38-TSSOP	4.97	3.84	3.41
A3986SLDTR-T	620-1166-2-ND	Dual Full-Bridge MOSFET Driver with Microstepping Translator	38-TSSOP	7272.00/4,000		
A4401KLTR-T	620-1217-1-ND	Automotive Vacuum Fluorescent Display Power Supply	8-SOIC	2.84	2.53	2.22
A4401KLTR-T	620-1217-2-ND	Automotive Vacuum Fluorescent Display Power Supply	8-SOIC	3081.00/3,000		
A4402ELPTR-T	620-1331-1-ND	Constant On-Time Buck Converter with Linear Regulator ***NEW!***	16-TSSOP	3.35	2.98	2.61
A4402ELPTR-T	620-1331-2-ND	Constant On-Time Buck Converter with Linear Regulator ***NEW!***	16-TSSOP	4836.00/4,000		
A4403GEUTR-T	620-1273-1-ND	Valley Curr. Mode Control Buck Converter	16-QFN	2.05	1.83	1.60
A4403GEUTR-T	620-1273-2-ND	Valley Curr. Mode Control Buck Converter	16-QFN	1176.00/1,500		
A4447SLJTR-T	620-1329-1-ND	High Voltage Buck Regulator ***NEW!***	8-SOIC	1.53	1.37	1.18
A4447SLJTR-T	620-1329-2-ND	High Voltage Buck Regulator ***NEW!***	8-SOIC	1905.00/3,000		
A4490SEESTR-T	620-1245-1-ND	Triple Output Step-Down Switching Reg.	20-QFN	3.24	2.88	2.52
A4490SEESTR-T	620-1245-2-ND	Triple Output Step-Down Switching Reg.	20-QFN	1857.00/1,500		
A4935KJPTR-T	620-1300-1-ND	Automotive 3-Phase MOSFET Driver	48-LQFP	7.42	5.73	5.09
A4935KJPTR-T	620-1300-2-ND	Automotive 3-Phase MOSFET Driver	48-LQFP	4293.00/1,500		
A4940KLPTR-T	620-1319-1-ND	Automotive Full Bridge MOSFET Driver ***NEW!***	24-TSSOP	4.27	3.30	2.93
A4940KLPTR-T	620-1319-2-ND	Automotive Full Bridge MOSFET Driver ***NEW!***	24-TSSOP	6248.00/4,000		
A6210GEUTR-T	620-1281-1-ND	Step-Down Buck Regulating LED Driver	16-QFN	2.05	1.83	1.60
A6210GEUTR-T	620-1281-2-ND	Step-Down Buck Regulating LED Driver	16-QFN	1176.00/1,500		
A6260KLJTR-T	620-1252-1-ND	High Brightness LED Current Regulator	8-SOIC	2.30	2.05	1.80
A6260KLJTR-T	620-1252-2-ND	High Brightness LED Current Regulator	8-SOIC	2496.00/3,000		
A6260SLJTR-T	620-1253-1-ND	High Brightness LED Current Regulator	8-SOIC	1.94	1.73	1.52
A6260SLJTR-T	620-1253-2-ND	High Brightness LED Current Regulator	8-SOIC	2106.00/3,000		
A6275SLWTR-T	620-1301-1-ND	8-Bit Serial Input, Constant Current Latched LED Driver	16-SOIC	2.23	1.99	1.74
A6275SLWTR-T	620-1301-2-ND	8-Bit Serial Input, Constant Current Latched LED Driver	16-SOIC	853.00/1,000		
A6276ELWTR-T	620-1151-1-ND	16-Bit Serial Input, Constant Current Latched LED Driver	24-SOIC	3.53	3.14	2.75
A6276ELWTR-T	620-1151-2-ND	16-Bit Serial Input, Constant Current Latched LED Driver	24-SOIC	1348.00/1,000		
A6277ELWTR-T	620-1152-1-ND	8-Bit Serial Input, Constant Current Latched LED Driver	20-SOIC	3.53	3.14	2.75
A6277ELWTR-T	620-1152-2-ND	8-Bit Serial Input, Constant Current Latched LED Driver	20-SOIC	1348.00/1,000		
A6278EA-T	620-1165-5-ND	8-Channel Serial-Input Constant Current Latched LED Driver	16-Dip	1.86	1.62	1.43
A6278ELPTR-T	620-1263-1-ND	8-Ch. Serial Input, Constant Curr. Latched LED Driver, Open LED Detect	16-TSSOP	2.38	2.12	1.85
A6279EETTR-T	620-1255-1-ND	16-Ch. Serial In, Constant Curr. Latched LED Driver, Open LED Detect	28-MLP	2.23	1.99	1.74
A6279EETTR-T	620-1255-2-ND	16-Ch. Serial In, Constant Curr. Latched LED Driver, Open LED Detect	28-MLP	1279.50/1,500		
A6279ELPTR-T	620-1266-1-ND	16-Ch. Serial In, Constant Curr. Latched LED Driver, Open LED Detect ***NEW!***	24-TSSOP	2.05	1.64	1.23
A6279ELPTR-T	620-1266-2-ND	16-Ch. Serial In, Constant Curr. Latched LED Driver, Open LED Detect ***NEW!***	24-TSSOP	4264.00/4,000		
A6280EA-T	620-1256-ND	3-Channel Constant Current LED Driver with PWM Control	16-Dip	1.89	1.64	1.45
A6280EESTR-T	620-1179-1-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	2.20	1.96	1.71
A6280EESTR-T	620-1179-2-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1258.50/1,500		
A6281EESTR-T	620-1218-1-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	2.20	1.96	1.71
A6281EESTR-T	620-1218-2-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1258.50/1,500		
A6282EESTR-T	620-1221-1-ND	16-Channel Constant Current LED Driver	24-QFN	1.54	1.36	1.19
A6282EESTR-T	620-1221-2-ND	16-Channel Constant Current LED Driver	24-QFN	922.50/1,500		
A6282ELPTR-T	620-1268-1-ND	16-Channel Constant Current LED Driver	24-TSSOP	1.69	1.49	1.31
A6282ELPTR-T	620-1268-2-ND	16-Channel Constant Current LED Driver	24-TSSOP	2432.00/4,000		
A6285EETTR-T	620-1257-1-ND	16-Channel Constant Current LED Driver with Open LED Detection	32-QFN	3.24	2.88	2.52
A6285EETTR-T	620-1257-2-ND	16-Channel Constant Current LED Driver with Open LED Detection	32-QFN	1857.00/1,500		
A6801SEPTR-T	620-1303-1-ND	DABiC-5 Latched Sink Driver	28-PLCC	2.93	2.40	2.15
A6821SA-T	620-1095-ND	DABiC-5 8-Bit Serial Input Latched Sink Driver	16-Dip	2.70	2.34	2.07
A6832SEPTR-T	620-1310-1-ND	DABiC-5 32-Bit Serial Input Latched Sink Driver	44-PLCC	10.11	8.43	7.76
A6832SEPTR-T	620-1310-2-ND	DABiC-5 32-Bit Serial Input Latched Sink Driver	44-PLCC	2426.40/450		
A6833SEPTR-T	620-1311-1-ND	DABiC-5 32-Bit Serial Input Latched Sink Driver	44-PLCC	8.40	7.00	6.44
A6833SEPTR-T	620-1311-2-ND	DABiC-5 32-Bit Serial Input Latched Sink Driver	44-PLCC	2016.00/450		
A6850KLTR-T	620-1185-1-ND	Dual Channel Switch Interface	8-SOIC	2.20	1.96	1.71
A6850KLTR-T	620-1185-2-ND	Dual Channel Switch Interface	8-SOIC	2379.00/3,000		
A8285SLBTR-T	620-1202-1-ND	LNB Supply/Control Voltage Regulator	16-SOIC	4.48	3.46	3.08
A8285SLBTR-T	620-1202-2-ND	LNB Supply/Control Voltage Regulator	16-SOIC	1728.00/1,000		
A8287SLBTR-T	620-1200-1-ND	LNB Supply/Control Voltage Regulator	24-SOIC	4.59	3.54	3.15
A8287SLBTR-T	620-1200-2-ND	LNB Supply/Control Voltage Regulator	24-SOIC	1769.00/1,000		
A8292SETTR-T	620-1187-1-ND	Dual LNB Supply/Control Voltage Reg.	28-MLP	4.90	3.78	3.36
A8292SETTR-T	620-1187-2-ND	Dual LNB Supply/Control Voltage Reg.	28-MLP	2835.00/1,500		
A8434EESTR-T	620-1188-1-ND	6 Ch., High Eff. Charge Pump WLED Dvr.	16-MLP	1.50	1.32	1.16
A8434EESTR-T	620-1188-2-ND	6 Ch., High Eff. Charge Pump WLED Dvr.	16-MLP	900.00/1,500		

POWER MANAGEMENT

Allegro MicroSystems, Inc. Digi-Reel® *(Cont.)*

RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A8436EEJTR-T	620-1098-1-ND	Photoflash Capacitor Charger	10-MLP	1.08	.86	.77
A8436EEJTR-T	620-1098-2-ND	Photoflash Capacitor Charger	10-MLP	639.00/1,500		
A8438EEJTR-T	620-1099-1-ND	Photoflash Capacitor Charger	10-MLP	1.21	.96	.86
A8439EEJTR-T	620-1203-1-ND	Photoflash Capacitor Charger with IGBT Driver/Refresh	10-MLP	1.35	1.19	1.05
A8439EEJTR-T	620-1203-2-ND	Photoflash Capacitor Charger with IGBT Driver/Refresh	10-MLP	810.00/1,500		
A8447SLJTR-T	620-1174-1-ND	High Voltage Step Down Regulator	8-SOIC	1.84	1.62	1.43
A8447SLJTR-T	620-1174-2-ND	High Voltage Step Down Regulator	8-SOIC	1986.00/3,000		
A8480EEJTR-T	620-1208-1-ND	Boost Reg. for Display Bias or LED Driver	10-MLP	1.41	1.11	1.00
A8498SLJTR-T	620-1160-1-ND	High Voltage Step-Down Reg. ***NEW!***	8-SOIC	1.84	1.62	1.43
A8498SLJTR-T	620-1160-2-ND	High Voltage Step-Down Reg. ***NEW!***	8-SOIC	1986.00/3,000		
A8500EECTR-T	620-1204-1-ND	Flexible WLED/RGB Backlight Driver	26-QFN	3.75	2.89	2.57
A8500EECTR-T	620-1204-2-ND	Flexible WLED/RGB Backlight Driver	26-QFN	4110.00/3,000		
A8697ELJTR-T	620-1178-1-ND	Wide Input Voltage 4.0A Step Down Reg.	8-SOIC	1.73	1.52	1.34
A8697ELJTR-T	620-1178-2-ND	Wide Input Voltage 4.0A Step Down Reg.	8-SOIC	1863.00/3,000		
A8698ELJTR-T	620-1177-1-ND	Wide Input Voltage 3.0A Step Down Reg.	8-SOIC	1.54	1.36	1.19
A8698ELJTR-T	620-1177-2-ND	Wide Input Voltage 3.0A Step Down Reg.	8-SOIC	1662.00/3,000		
A8835EEJTR-T	620-1250-1-ND	Photoflash Capacitor Charger with IGBT Driver	10-MLP	1.65	1.46	1.28
A8835EEJTR-T	620-1250-2-ND	Photoflash Capacitor Charger with IGBT Driver	10-MLP	1782.00/3,000		
A8837EEJTR-T	620-1248-1-ND	Photoflash Capacitor Charger with IGBT Driver	10-MLP	1.65	1.46	1.28
A8837EEJTR-T	620-1248-2-ND	Photoflash Capacitor Charger with IGBT Driver	10-MLP	990.00/1,500		
ACS709LLFTR-20BB-T	620-1337-1-ND	Current Sensor ***NEW!***	24-QSOP	4.24	3.27	2.91
ACS709LLFTR-20BB-T	620-1337-2-ND	Current Sensor ***NEW!***	24-QSOP	3872.50/2,500		
ACS709LLFTR-35BB-T	620-1336-1-ND	Current Sensor ***NEW!***	24-QSOP	4.24	3.27	2.91
ACS709LLFTR-35BB-T	620-1336-2-ND	Current Sensor ***NEW!***	24-QSOP	3872.50/2,500		
ACS714ELCTR-05B-T	620-1258-1-ND	Current Sensor	8-SOIC	4.66	3.60	3.20
ACS714ELCTR-05B-T	620-1258-2-ND	Current Sensor	8-SOIC	5106.00/3,000		
ACS714ELCTR-20A-T	620-1259-1-ND	Current Sensor	8-SOIC	4.66	3.60	3.20
ACS714ELCTR-20A-T	620-1259-2-ND	Current Sensor	8-SOIC	5106.00/3,000		
ACS714ELCTR-30A-T	620-1260-1-ND	Current Sensor	8-SOIC	4.66	3.60	3.20
ACS714ELCTR-30A-T	620-1260-2-ND	Current Sensor	8-SOIC	5106.00/3,000		
ACS715ELCTR-20A-T	620-1261-1-ND	Current Sensor	8-SOIC	4.66	3.60	3.20
ACS715ELCTR-20A-T	620-1261-2-ND	Current Sensor	8-SOIC	5106.00/3,000		
ACS715ELCTR-30A-T	620-1262-1-ND	Current Sensor	8-SOIC	4.66	3.60	3.20
ACS715ELCTR-30A-T	620-1262-2-ND	Current Sensor	8-SOIC	5106.00/3,000		
ATS617LSGTN-T	620-1326-1-ND	Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor ***NEW!***	4-SIP	6.72	5.19	4.61
ATS617LSGTN-T	620-1326-2-ND	Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor ***NEW!***	4-SIP	2150.40/800		
ATS667LSGTN-T	620-1328-1-ND	Gear Tooth Sensor ***NEW!***	4-SIP	6.10	5.24	4.58
ATS667LSGTN-T	620-1328-2-ND	Gear Tooth Sensor ***NEW!***	4-SIP	2441.60/800		
ATS682LSHTN-T	620-1327-1-ND	Miniature Peak-Detecting Diff. Hall Effect Sensor ***NEW!***	4-SIP	4.70	4.04	3.53
ATS682LSHTN-T	620-1327-2-ND	Miniature Peak-Detecting Diff. Hall Effect Sensor ***NEW!***	4-SIP	1881.60/800		
UDK2559EBTR-T	620-1313-1-ND	Protected Quad Power Driver	28-PLCC	7.81	6.03	5.36
UDN2559EBTR-T	620-1314-1-ND	Protected Quad Power Driver	28-PLCC	7.49	5.78	5.14
UDN2981A-T	620-1120-ND	8-Channel Source Driver	18-Dip	2.13	1.85	1.64
UDN2982A-T	620-1121-ND	8-Channel Source Driver	18-Dip	2.13	1.85	1.64
UDN2987LWTR-6-T	620-1315-1-ND	8-Channel Source Driver	20-SOIC	4.38	3.38	3.00
UDN2987LWTR-6-T	620-1315-2-ND	8-Channel Source Driver	20-SOIC	1688.00/1,000		
UDQ2559LBTR-T	620-1316-1-ND	Protected Quad Power Driver	16-SOICW	5.74	4.43	3.94
UDQ2559LBTR-T	620-1316-2-ND	Protected Quad Power Driver	16-SOICW	2214.00/1,000		

AMPLIFIERS AND COMPARATORS

STMicroelectronics Digi-Reel®

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS4982IQT	497-10451-1-ND	2W Stereo Audio Power Amp* ***NEW!***	32-QFN	2.10	1.80	1.47
TS4982IQT	497-10451-2-ND	2W Stereo Audio Power Amp* ***NEW!***	32-QFN	2427.00/3,000		
TS9222IDT	497-10324-1-ND	4MHz R/R Dual Op Amp* ***NEW!***	8-SOIC	1.76	1.58	1.25
TS9222IDT	497-10324-2-ND	4MHz R/R Dual Op Amp* ***NEW!***	8-SOIC	1617.50/2,500		
TSC102IDT	497-10325-1-ND	High Side Current Sense Amp* ***NEW!***	8-SOIC	3.15	2.84	2.31
TSC102IDT	497-10325-2-ND	High Side Current Sense Amp* ***NEW!***	8-SOIC	3492.50/2,500		
TSC102IPT	497-10326-1-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	3.15	2.84	2.31
TSC102IPT	497-10326-2-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	5588.00/4,000		
TSC1031IDT	497-10452-1-ND	High Side Current Sense Amp* ***NEW!***	8-SOIC	3.09	2.78	2.27
TSC1031IDT	497-10452-2-ND	High Side Current Sense Amp* ***NEW!***	8-SOIC	3422.50/2,500		
TSC1031IPT	497-10453-1-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	3.09	2.78	2.27
TSC1031IPT	497-10453-2-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	5476.00/4,000		
TSC103IPT	497-10454-1-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	3.15	2.84	2.31
TSC103IPT	497-10454-2-ND	High Side Current Sense Amp* ***NEW!***	8-TSSOP	5588.00/4,000		
TSH84IPT	497-8926-1-ND	Wide Band R/R Op Amp* ***NEW!***	14-TSSOP	2.65	2.27	1.86
TSH84IPT	497-8926-2-ND	Wide Band R/R Op Amp* ***NEW!***	14-TSSOP	2552.50/2,500		
TSH345IPT	497-8531-1-ND	36MHz Single Supply Triple Video Buffer*	14-TSSOP	1.68	1.50	1.20
TSH345IPT	497-8531-2-ND	36MHz Single Supply Triple Video Buffer*	14-TSSOP	1542.50/2,500		
TSH346IDT	497-8532-1-ND	36MHz Single Supply Triple Video Buffer*	8-SOIC	1.60	1.43	1.14
TSH346IDT	497-8532-2-ND	36MHz Single Supply Triple Video Buffer*	8-SOIC	1470.00/2,500		
TSV611AICT	497-10455-1-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	SC70-5	1.40	1.26	1.00
TSV611AICT	497-10455-2-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	SC70-5	1545.00/3,000		
TSV611AILT	497-10456-1-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	SOT-23-5	1.24	1.11	.89
TSV611AILT	497-10456-2-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	SOT-23-5	1368.00/3,000		
TSV612AIDT	497-10457-1-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	8-SOIC	1.84	1.58	1.29

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(Continued)

STMicroelectronics Digi-Reel® (Cont.) AMPLIFIERS AND COMPARATORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TSV612AIDT	497-10457-2-ND	I/O, R/R, 120kHZ Op Amp* ***NEW!***	8-SOIC	1772.50/2,500		
TSV622AIDT	497-8986-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-SOIC	1.68	1.50	1.20
TSV622AIDT	497-8986-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-SOIC	1542.50/2,500		
TSV622AIST	497-8987-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-MSOP	1.72	1.54	1.23
TSV622AIST	497-8987-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-MSOP	2532.00/4,000		
TSV622IDT	497-8988-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-SOIC	1.20	1.08	.86
TSV622IDT	497-8988-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-SOIC	1102.50/2,500		
TSV622IST	497-8989-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-MSOP	1.24	1.11	.89
TSV622IST	497-8989-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	8-MSOP	1824.00/4,000		
TSV623AIST	497-8990-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	10-MSOP	1.72	1.54	1.23
TSV623AIST	497-8990-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	10-MSOP	2532.00/4,000		
TSV623IST	497-8991-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	10-MSOP	1.36	1.22	.97
TSV623IST	497-8991-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	10-MSOP	2000.00/4,000		
TSV624AIPT	497-8992-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	14-TSSOP	2.43	2.08	1.70
TSV624AIPT	497-8992-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	14-TSSOP	2340.00/2,500		
TSV624IPT	497-8993-1-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	14-TSSOP	1.88	1.68	1.34
TSV624IPT	497-8993-2-ND	I/O, R/R, 420kHz Op Amp* ***NEW!***	14-TSSOP	1730.00/2,500		
TSV630ICT	497-8539-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-6	1.04	.93	.74
TSV630ICT	497-8539-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-6	1146.00/3,000		
TSV630ILT	497-8540-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-6	1.12	1.00	.80
TSV630ILT	497-8540-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-6	1236.00/3,000		
TSV631AICT	497-8541-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-5	1.48	1.33	1.06
TSV631AICT	497-8541-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-5	1635.00/3,000		
TSV631AILT	497-8542-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-5	1.48	1.33	1.06
TSV631AILT	497-8542-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-5	1635.00/3,000		
TSV631ICT	497-8543-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-5	.96	.86	.69
TSV631ICT	497-8543-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-5	1059.00/3,000		
TSV632AIDT	497-8994-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-SOIC	1.68	1.50	1.20
TSV632AIDT	497-8994-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-SOIC	1542.50/2,500		
TSV632AIST	497-8995-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-MSOP	1.72	1.54	1.23
TSV632AIST	497-8995-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-MSOP	2532.00/4,000		
TSV632IDT	497-8996-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-SOIC	1.20	1.08	.86
TSV632IDT	497-8996-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-SOIC	1102.50/2,500		
TSV632IST	497-8997-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-MSOP	1.24	1.11	.89
TSV632IST	497-8997-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	8-MSOP	1824.00/4,000		
TSV633AIST	497-8998-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	10-MSOP	1.72	1.54	1.23
TSV633AIST	497-8998-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	10-MSOP	2532.00/4,000		
TSV633IST	497-8999-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	10-MSOP	1.36	1.22	.97
TSV633IST	497-8999-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	10-MSOP	2000.00/4,000		
TSV634AIPT	497-9000-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	14-TSSOP	2.43	2.08	1.70
TSV634AIPT	497-9000-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	14-TSSOP	2340.00/2,500		
TSV634IPT	497-9001-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	14-TSSOP	1.88	1.68	1.34
TSV634IPT	497-9001-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	14-TSSOP	1730.00/2,500		
TSV635AIPT	497-9002-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	16-TSSOP	2.54	2.18	1.78
TSV635AIPT	497-9002-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	16-TSSOP	2447.50/2,500		
TSV635IPT	497-9003-1-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	16-TSSOP	1.80	1.55	1.27
TSV635IPT	497-9003-2-ND	I/O, R/R, 880kHz Op Amp* ***NEW!***	16-TSSOP	1737.50/2,500		
TSV911AIYDT	497-10466-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1.16	1.04	.83
TSV911AIYDT	497-10466-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1067.50/2,500		
TSV911AIYLT	497-10467-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	SOT-23-5	1.44	1.29	1.03
TSV911AIYLT	497-10467-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	SOT-23-5	1587.00/3,000		
TSV911IYDT	497-10468-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	.92	.80	.63
TSV911IYDT	497-10468-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	762.50/2,500		
TSV911IYLT	497-10469-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	SOT-23-5	.96	.86	.69
TSV911IYLT	497-10469-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	SOT-23-5	1059.00/3,000		
TSV912AIYDT	497-10470-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1.44	1.29	1.03
TSV912AIYDT	497-10470-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1322.50/2,500		
TSV912AIYST	497-10471-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-MSOP	1.44	1.29	1.03
TSV912AIYST	497-10471-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-MSOP	2116.00/4,000		
TSV912IYDT	497-10472-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1.28	1.15	.91
TSV912IYDT	497-10472-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	8-SOIC	1175.00/2,500		
TSV914IYDT	497-10473-1-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	14-SOIC	1.80	1.55	1.27
TSV914IYDT	497-10473-2-ND	I/O, R/R, 8mHz Op Amp* ***NEW!***	14-SOIC	1737.50/2,500		
TSV6294AIPT	497-10458-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1.88	1.68	1.34
TSV6294AIPT	497-10458-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1730.00/2,500		
TSV6294IPT	497-10459-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1.48	1.33	1.06
TSV6294IPT	497-10459-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1362.50/2,500		
TSV6295AIPT	497-10460-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1.88	1.68	1.34
TSV6295AIPT	497-10460-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1730.00/2,500		
TSV6295IPT	497-10461-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1.48	1.33	1.06
TSV6295IPT	497-10461-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1362.50/2,500		
TSV6394AIPT	497-10462-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1.88	1.68	1.34
TSV6394AIPT	497-10462-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1730.00/2,500		
TSV6394IPT	497-10463-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1.48	1.33	1.06
TSV6394IPT	497-10463-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	14-TSSOP	1362.50/2,500		
TSV6395AIPT	497-10464-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1.88	1.68	1.34
TSV6395AIPT	497-10464-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1730.00/2,500		
TSV6395IPT	497-10465-1-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1.48	1.33	1.06
TSV6395IPT	497-10465-2-ND	Micropower, Wide CMOS Op Amp* ***NEW!***	16-TSSOP	1362.50/2,500		

STMicroelectronics Digi-Reel® AMPLIFIERS AND LINEAR

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L272D013TR	497-8854-1-ND	Dual Power Op Amp* ***NEW!***	16-SOIC	2.31	1.98	1.62
L272D013TR	497-8854-2-ND	Dual Power Op Amp* ***NEW!***	16-SOIC	2227.50/2,500		
LF253DT	497-7801-1-ND	Wide Bandwidth Dual JFET Op Amp*	8-SOIC	1.48	1.33	1.06
LF253DT	497-7801-2-ND	Wide Bandwidth Dual JFET Op Amp*	8-SOIC	1362.50/2,500		
LF347DT	497-2963-1-ND	Wide Bandwidth Quad JFET Op Amp	14-SOIC	.97	.87	.69

STMicroelectronics Digi-Reel® (Cont.) AMPLIFIERS AND LINEAR

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LF347DT	497-2963-2-ND	Wide Bandwidth Quad JFET Op Amp	14-SOIC	892.50/2,500		
LF347N	497-2964-5-ND	Wide Bandwidth Quad JFET Op Amp	14-Dip	.93	.83	.65
LF351DT	497-4041-1-ND	Wide Bandwidth Single JFET Op Amp	8-SOIC	.91	.79	.62
LF351DT	497-4041-2-ND	Wide Bandwidth Single JFET Op Amp	8-SOIC	747.50/2,500		
LF351N	497-2966-5-ND	Wide Bandwidth Single JFET Op Amp	8-Dip	.92	.81	.63
LF353DT	497-2967-1-ND	Wide Bandwidth Dual JFET Op Amp	8-SOIC	.91	.79	.62
LF353DT	497-2967-2-ND	Wide Bandwidth Dual JFET Op Amp	8-SOIC	747.50/2,500		
LF353N	497-2968-5-ND	Wide Bandwidth Dual JFET Op Amp	8-Dip	.73	.64	.50
LM124D	497-2969-5-ND	Low Power Quad Op Amp	14-SOIC	2.38	2.15	1.73
LM124N	497-6984-5-ND	Low Power Quad Op Amp*	14-Dip	1.79	1.62	1.31
LM139ADT	497-6986-1-ND	Low Power Quad Voltage Comparator*	14-SOIC	2.76	2.37	1.94
LM139ADT	497-6986-2-ND	Low Power Quad Voltage Comparator*	14-SOIC	2660.00/2,500		
LM139DT	497-6987-1-ND	Low Power Quad Voltage Comparator*	14-SOIC	2.66	2.35	1.99
LM139DT	497-6987-2-ND	Low Power Quad Voltage Comparator*	14-SOIC	2307.50/2,500		
LM139N	497-6988-5-ND	Low Power Quad Voltage Comparator*	14-Dip	2.31	2.09	1.68
LM158APT	497-6989-1-ND	Low Power Dual Op Amp*	8-TSSOP	1.12	1.00	.80
LM158APT	497-6989-2-ND	Low Power Dual Op Amp*	8-TSSOP	1648.00/4,000		
LM158DT	497-6990-1-ND	Low Power Dual Op Amp*	8-SOIC	1.84	1.58	1.29
LM158DT	497-6990-2-ND	Low Power Dual Op Amp*	8-SOIC	1772.50/2,500		
LM158N	497-6991-5-ND	Low Power Dual Op Amp*	8-Dip	2.12	1.92	1.54
LM158YDT	497-10204-1-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	2.21	1.89	1.55
LM158YDT	497-10204-2-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	2127.50/2,500		
LM193DT	497-6992-1-ND	Low Power Dual Voltage Comparator*	8-SOIC	3.47	3.12	2.55
LM193DT	497-6992-2-ND	Low Power Dual Voltage Comparator*	8-SOIC	3840.00/2,500		
LM193N	497-6993-5-ND	Low Power Dual Voltage Comparator*	8-Dip	3.22	3.00	2.34
LM201AD	497-4042-5-ND	Single Op Amp	8-SOIC	1.54	1.37	1.09
LM201AN	497-2970-5-ND	Single Op Amp	8-Dip	1.51	1.34	1.06
LM211DT	497-1542-1-ND	Voltage Comparator	8-SOIC	.75	.61	.46
LM211DT	497-1542-2-ND	Voltage Comparator	8-SOIC	530.00/2,500		
LM211N	497-7319-5-ND	Voltage Comparator*	8-Dip	.61	.54	.42
LM219DT	497-1544-1-ND	High Speed Dual Comparator	14-SOIC	1.38	1.24	.99
LM219DT	497-1544-2-ND	High Speed Dual Comparator	14-SOIC	1270.00/2,500		
LM219N	497-7323-5-ND	High Speed Dual Comparator*	14-Dip	1.44	1.28	1.01
LM224ADT	497-1545-1-ND	Low Power Quad Op Amp	14-SOIC	.85	.74	.59
LM224ADT	497-1545-2-ND	Low Power Quad Op Amp	14-SOIC	702.50/2,500		
LM224AN	497-1546-5-ND	Low Power Quad Op Amp	14-Dip	.87	.77	.59
LM224APT	497-4043-1-ND	Low Power Quad Op Amp	14-TSSOP	.88	.76	.60
LM224APT	497-4043-2-ND	Low Power Quad Op Amp	14-TSSOP	725.00/2,500		
LM224DT	497-2972-1-ND	Low Power Quad Op Amp	14-SOIC	.64	.51	.39
LM224DT	497-2972-2-ND	Low Power Quad Op Amp	14-SOIC	450.00/2,500		
LM224N	497-1547-5-ND	Low Power Quad Op Amp	14-Dip	.55	.47	.35
LM224PT	497-1548-1-ND	Low Power Quad Op Amp*	14-TSSOP	.74	.64	.51
LM224PT	497-1548-2-ND	Low Power Quad Op Amp*	14-TSSOP	610.00/2,500		
LM239ADT	497-1550-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.79	.68	.54
LM239ADT	497-1550-2-ND	Low Power Quad Voltage Comparator	14-SOIC	650.00/2,500		
LM239AN	497-1551-5-ND	Low Power Quad Voltage Comparator	14-Dip	.91	.80	.62
LM239DT	497-2973-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.58	.47	.35
LM239DT	497-2973-2-ND	Low Power Quad Voltage Comparator	14-SOIC	407.50/2,500		
LM239N	497-1552-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.47	.35
LM239PT	497-4044-1-ND	Low Power Quad Voltage Comparator	14-TSSOP	.80	.64	.48
LM239PT	497-4044-2-ND	Low Power Quad Voltage Comparator	14-TSSOP	562.50/2,500		
LM246N	497-7325-5-ND	Programmable Quad Bipolar Op Amp*	16-Dip	1.44	1.28	1.01
LM248DT	497-7814-1-ND	Four UA741 Quad Bipolar Op Amp*	14-SOIC	1.33	1.20	.95
LM248DT	497-7814-2-ND	Four UA741 Quad Bipolar Op Amp*	14-SOIC	1227.50/2,500		
LM248N	497-7326-5-ND	Four UA741 Quad Bipolar Op Amp*	14-Dip	1.36	1.21	.96
LM258ADT	497-7327-1-ND	Low Power Dual Op Amp*	8-SOIC	.81	.65	.49
LM258ADT	497-7327-2-ND	Low Power Dual Op Amp*	8-SOIC	570.00/2,500		
LM258APT	497-6432-1-ND	Low Power Dual Op Amp*	8-TSSOP	.81	.65	.49
LM258APT	497-6432-2-ND	Low Power Dual Op Amp*	8-TSSOP	912.00/4,000		
LM258AST	497-4778-1-ND	Low Power Dual Op Amp	8-Mini SOIC	.73	.59	.44
LM258AST	497-4778-2-ND	Low Power Dual Op Amp	8-Mini SOIC	824.00/4,000		
LM258AYDT	497-10207-1-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	.92	.80	.63
LM258AYDT	497-10207-2-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	762.50/2,500		
LM258AYPT	497-10208-1-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	.79	.68	.54
LM258AYPT	497-10208-2-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	1040.00/4,000		
LM258DT	497-1553-1-ND	Low Power Dual Op Amp	8-SOIC	.50	.40	.30
LM258DT	497-1553-2-ND	Low Power Dual Op Amp	8-SOIC	350.00/2,500		
LM258N	497-1554-5-ND	Low Power Dual Op Amp	8-Dip	.50	.42	.32
LM258PT	497-7815-1-ND	Low Power Dual Op Amp*	8-TSSOP	.64	.51	.39
LM258PT	497-7815-2-ND	Low Power Dual Op Amp*	8-TSSOP	720.00/4,000		
LM258WYST	497-10209-1-ND	Low Power Dual Op Amp* ***NEW!***	8-MSOP	.79	.68	.54
LM258WYST	497-10209-2-ND	Low Power Dual Op Amp* ***NEW!***	8-MSOP	1040.00/4,000		
LM258YDT	497-10176-1-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	.73	.59	.44
LM258YDT	497-10176-2-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	512.50/2,500		
LM258YPT	497-10210-1-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	.73	.59	.44
LM258YPT	497-10210-2-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	820.00/4,000		
LM293ADT	497-4264-1-ND	Low Power Dual Voltage Comparator	8-SOIC	1.02	.88	.70
LM293ADT	497-4264-2-ND	Low Power Dual Voltage Comparator	8-SOIC	837.50/2,500		
LM293DT	497-1566-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.64	.51	.39
LM293DT	497-1566-2-ND	Low Power Dual Voltage Comparator	8-SOIC	450.00/2,500		
LM293N	497-1567-5-ND	Low Power Dual Voltage Comparator	8-Dip	.46	.39	.30
LM293PT	497-7818-1-ND	Low Power Dual Voltage Comparator*	8-TSSOP	.74	.64	.51
LM293PT	497-7818-2-ND	Low Power Dual Voltage Comparator*	8-TSSOP	976.00/4,000		
LM293ST	497-4265-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.74	.64	.51
LM293ST	497-4265-2-ND	Low Power Dual Voltage Comparator	8-SOIC	976.00/4,000		
LM301ADT	497-7819-1-ND	Single Op Amp*	8-SOIC	1.12	1.00	.80
LM301ADT	497-7819-2-ND	Single Op Amp*	8-SOIC	1030.00/2,500		
LM301AN	497-1568-5-ND	Single Op Amp	8-Dip	.93	.83	.65
LM311DT	497-1569-1-ND	Voltage Comparator	8-SOIC	.50	.40	.30
LM311DT	497-1569-2-ND	Voltage Comparator	8-SOIC	350.00/2,500		
LM311N	497-1570-5-ND	Voltage Comparator	8-Dip	.43	.36	.27
LM319DT	497-1576-1-ND	High Speed Dual Comparator	14-SOIC	.96	.83	.66
LM319DT	497-1576-2-ND	High Speed Dual Comparator	14-SOIC	790.00/2,500		
LM319N	497-1577-5-ND	High Speed Dual Comparator	14-Dip	.97	.85	.66
LM324ADT	497-1578-1-ND	Low Power Quad Op Amp	14-SOIC	.50	.40	.30
LM324ADT	497-1578-2-ND	Low Power Quad Op Amp	14-SOIC	350.00/2,500		
LM324AN	497-1579-5-ND	Low Power Quad Op Amp	14-Dip	.43	.36	.27
LM324APT	497-7329-1-ND	Low Power Quad Op Amp*	14-TSSOP	.63	.51	.38
LM324APT	497-7329-2-ND	Low Power Quad Op Amp*	14-TSSOP	445.00/2,500		
LM324DT	497-1580-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.44	.30
LM324DT	497-1580-2-ND	Low Power Quad Op Amp	14-SOIC	312.50/2,500		
LM324N	497-1581-5-ND	Low Power Quad Op Amp	14-Dip	.43	.36	.27
LM324PT	497-7330-1-ND	Low Power Quad Op Amp*	14-TSSOP	.83	.72	.57
LM324PT	497-7330-2-ND	Low Power Quad Op Amp*	14-TSSOP	685.00/2,500		
LM339ADT	497-1586-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.58	.47	.35
LM339ADT	497-1586-2-ND	Low Power Quad Voltage Comparator	14-SOIC	407.50/2,500		

** RoHS Compliant*

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(Continued)

STMicroelectronics Digi-Reel® *(Cont.)*

AMPLIFIERS AND LINEAR

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LM339AN	497-1587-5-ND	Low Power Quad Voltage Comparator	14-Dip	.50	.42	.32
LM339APT	497-8346-1-ND	Low Power Quad Voltage Comparator*	14-TSSOP	.80	.64	.48
LM339APT	497-8346-2-ND	Low Power Quad Voltage Comparator*	14-TSSOP	562.50/2,500		
LM339DT	497-1588-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.51	.41	.28
LM339DT	497-1588-2-ND	Low Power Quad Voltage Comparator	14-SOIC	292.50/2,500		
LM339N	497-1589-5-ND	Low Power Quad Voltage Comparator	14-Dip	.43	.36	.27
LM339PT	497-4048-1-ND	Low Power Quad Voltage Comparator	14-TSSOP	.74	.59	.45
LM339PT	497-4048-2-ND	Low Power Quad Voltage Comparator	14-TSSOP	520.00/2,500		
LM346N	497-2980-5-ND	Programmable Quad Bipolar Op Amp	16-Dip	1.57	1.39	1.10
LM348DT	497-4049-1-ND	Four UA741 Quad Bipolar Op Amp	14-SOIC	1.04	.91	.72
LM348N	497-2981-5-ND	Four UA741 Quad Bipolar Op Amp	14-Dip	.88	.79	.62
LM358ADT	497-1590-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.44	.33
LM358ADT	497-1590-2-ND	Low Power Dual Op Amp	8-SOIC	387.50/2,500		
LM358AN	497-2983-5-ND	Low Power Dual Op Amp	8-Dip	.48	.40	.30
LM358APT	497-5367-1-ND	Low Power Dual Op Amp*	8-TSSOP	.67	.54	.40
LM358APT	497-5367-2-ND	Low Power Dual Op Amp*	8-TSSOP	752.00/4,000		
LM358AST	497-7332-1-ND	Low Power Dual Op Amp*	8-Mini SOIC	.58	.47	.35
LM358AST	497-7332-2-ND	Low Power Dual Op Amp*	8-Mini SOIC	652.00/4,000		
LM358DT	497-1591-1-ND	Low Power Dual Op Amp	8-SOIC	.52	.41	.29
LM358DT	497-1591-2-ND	Low Power Dual Op Amp	8-SOIC	297.50/2,500		
LM358N	497-1592-5-ND	Low Power Dual Op Amp	8-Dip	.43	.36	.27
LM358PT	497-6455-1-ND	Low Power Dual Op Amp*	8-TSSOP	.52	.42	.32
LM358PT	497-6455-2-ND	Low Power Dual Op Amp*	8-TSSOP	588.00/4,000		
LM358ST	497-6456-1-ND	Low Power Dual Op Amp*	8-Mini SOIC	.58	.47	.35
LM358ST	497-6456-2-ND	Low Power Dual Op Amp*	8-Mini SOIC	652.00/4,000		
LM358YDT	497-10177-1-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	.58	.47	.35
LM358YDT	497-10177-2-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	407.50/2,500		
LM393ADT	497-4267-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.63	.51	.38
LM393ADT	497-4267-2-ND	Low Power Dual Voltage Comparator	8-SOIC	445.00/2,500		
LM393AN	497-6881-5-ND	Low Power Dual Voltage Comparator*	8-Dip	.65	.55	.42
LM393DT	497-1593-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.52	.41	.29
LM393DT	497-1593-2-ND	Low Power Dual Voltage Comparator	8-SOIC	297.50/2,500		
LM393N	497-1594-5-ND	Low Power Dual Voltage Comparator*	8-Dip	.43	.36	.27
LM393PT	497-7333-1-ND	Low Power Dual Voltage Comparator*	8-TSSOP	.61	.49	.37
LM393PT	497-7333-2-ND	Low Power Dual Voltage Comparator*	8-TSSOP	684.00/4,000		
LM393ST	497-7334-1-ND	Low Power Dual Voltage Comparator*	8-Mini SOIC	.61	.49	.37
LM393ST	497-7334-2-ND	Low Power Dual Voltage Comparator*	8-Mini SOIC	684.00/4,000		
LM833DT	497-1597-2-ND	Low Noise Dual Op Amp	8-SOIC	660.00/2,500		
LM833N	497-1598-5-ND	Low Noise Dual Op Amp	8-Dip	.78	.69	.53
LM833YDT	497-10220-1-ND	Low Noise Dual Op Amp* ***NEW!***	8-SOIC	.88	.76	.60
LM2901DT	497-1555-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.64	.51	.39
LM2901DT	497-1555-2-ND	Low Power Quad Voltage Comparator	14-SOIC	450.00/2,500		
LM2901N	497-1556-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.47	.35
LM2901PT	497-6454-1-ND	Low Power Quad Voltage Comparator*	14-TSSOP	.74	.59	.45
LM2901PT	497-6454-2-ND	Low Power Quad Voltage Comparator*	14-TSSOP	520.00/2,500		
LM2901YDT	497-10211-1-ND	Low Power Quad Voltage Comparator* ***NEW!***	14-SOIC	.92	.80	.63
LM2901YDT	497-10211-2-ND	Low Power Quad Voltage Comparator* ***NEW!***	14-SOIC	762.50/2,500		
LM2901YPT	497-10212-1-ND	Low Power Quad Voltage Comparator* ***NEW!***	14-TSSOP	.92	.80	.63
LM2901YPT	497-10212-2-ND	Low Power Quad Voltage Comparator* ***NEW!***	14-TSSOP	762.50/2,500		
LM2902AWYDT	497-10426-1-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	.58	.47	.35
LM2902AWYDT	497-10426-2-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	407.50/2,500		
LM2902AWYPT	497-10427-1-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	.58	.47	.35
LM2902AWYPT	497-10427-2-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	407.50/2,500		
LM2902DT	497-1557-1-ND	Low Power Quad Op Amp	14-SOIC	.64	.51	.39
LM2902DT	497-1557-2-ND	Low Power Quad Op Amp	14-SOIC	450.00/2,500		
LM2902N	497-1558-5-ND	Low Power Quad Op Amp	14-Dip	.55	.47	.35
LM2902PT	497-4045-1-ND	Low Power Quad Op Amp	14-TSSOP	.80	.64	.48
LM2902PT	497-4045-2-ND	Low Power Quad Op Amp	14-TSSOP	562.50/2,500		
LM2902WYDT	497-10428-1-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	.58	.47	.35
LM2902WYDT	497-10428-2-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	407.50/2,500		
LM2902WYPT	497-10429-1-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	.58	.47	.35
LM2902WYPT	497-10429-2-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	407.50/2,500		
LM2902YDT	497-10213-1-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	.92	.80	.63
LM2902YDT	497-10213-2-ND	Low Power Quad Op Amp* ***NEW!***	14-SOIC	762.50/2,500		
LM2902YPT	497-10214-1-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	.92	.80	.63
LM2902YPT	497-10214-2-ND	Low Power Quad Op Amp* ***NEW!***	14-TSSOP	762.50/2,500		
LM2903DT	497-1559-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.64	.51	.39
LM2903DT	497-1559-2-ND	Low Power Dual Voltage Comparator	8-SOIC	450.00/2,500		
LM2903HDT	497-4260-1-ND	Low Power Dual Voltage Comparator	8-SOIC	1.32	1.18	.94
LM2903HDT	497-4260-2-ND	Low Power Dual Voltage Comparator	8-SOIC	1215.00/2,500		
LM2903N	497-1560-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.47	.35
LM2903PT	497-7328-2-ND	Low Power Dual Voltage Comparator*	8-TSSOP	780.00/4,000		
LM2903YDT	497-10215-1-ND	Low Power Dual Voltage Comparator* ***NEW!***	8-SOIC	.92	.80	.63
LM2903YDT	497-10215-2-ND	Low Power Dual Voltage Comparator* ***NEW!***	8-SOIC	762.50/2,500		
LM2903YPT	497-10216-1-ND	Low Power Dual Voltage Comparator* ***NEW!***	8-TSSOP	.92	.80	.63
LM2903YPT	497-10216-2-ND	Low Power Dual Voltage Comparator* ***NEW!***	8-TSSOP	1220.00/4,000		
LM2904DT	497-1561-1-ND	Low Power Dual Op Amp	8-SOIC	.64	.51	.39
LM2904DT	497-1561-2-ND	Low Power Dual Op Amp	8-SOIC	450.00/2,500		
LM2904N	497-1562-5-ND	Low Power Dual Op Amp	8-Dip	.55	.47	.35
LM2904PT	497-4046-1-ND	Low Power Dual Op Amp	8-TSSOP	.61	.49	.37
LM2904PT	497-4046-2-ND	Low Power Dual Op Amp	8-TSSOP	684.00/4,000		
LM2904ST	497-7816-1-ND	Low Power Dual Op Amp*	8-Mini SOIC	.83	.72	.57
LM2904ST	497-7816-2-ND	Low Power Dual Op Amp*	8-Mini SOIC	1096.00/4,000		
LM2904WHDT	497-4261-1-ND	Low Power Dual Op Amp	8-SOIC	1.44	1.29	1.03
LM2904WHDT	497-4261-2-ND	Low Power Dual Op Amp	8-SOIC	1322.50/2,500		
LM2904YDT	497-10217-1-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	.92	.80	.63
LM2904YDT	497-10217-2-ND	Low Power Dual Op Amp* ***NEW!***	8-SOIC	762.50/2,500		
LM2904YPT	497-10218-1-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	.92	.80	.63
LM2904YPT	497-10218-2-ND	Low Power Dual Op Amp* ***NEW!***	8-TSSOP	1220.00/4,000		
LM2904YST	497-10219-1-ND	Low Power Dual Op Amp* ***NEW!***	8-MSOP	.92	.80	.63
LM2904YST	497-10219-2-ND	Low Power Dual Op Amp* ***NEW!***	8-MSOP	1220.00/4,000		
LMV321ILT	497-4941-1-ND	Low Power In/Out R/R Op Amp	SOT-23-5	1.06	.92	.73
LMV321ILT	497-4941-2-ND	Low Power In/Out R/R Op Amp	SOT-23-5	1053.00/3,000		
LMV321IYLT	497-10221-1-ND	Low Power In/Out R/R Op Amp* ***NEW!***	SOT-23-5	1.02	.88	.70
LMV321IYLT	497-10221-2-ND	Low Power In/Out R/R Op Amp* ***NEW!***	SOT-23-5	1005.00/3,000		
LMV321RILT	497-4942-1-ND	Low Power In/Out R/R Op Amp	SOT-23-5	1.06	.92	.73
LMV321RILT	497-4942-2-ND	Low Power In/Out R/R Op Amp	SOT-23-5	1053.00/3,000		
LMV324IDT	497-4943-1-ND	Low Power Quad In/Out R/R Op Amp	14-SOIC	1.10	.99	.79
LMV324IDT	497-4943-2-ND	Low Power Quad In/Out R/R Op Amp	14-SOIC	1015.00/2,500		
LMV324IPT	497-4944-1-ND	Low Power Quad In/Out R/R Op Amp	14-TSSOP	1.10	.99	.79
LMV324IPT	497-4944-2-ND	Low Power Quad In/Out R/R Op Amp	14-TSSOP	1015.00/2,500		
LMV324IYDT	497-10222-1-ND	Low Power Quad In/Out R/R Op Amp* ***NEW!***	14-SOIC	1.06	.95	.76
LMV324IYDT	497-10222-2-ND	Low Power Quad In/Out R/R Op Amp* ***NEW!***	14-SOIC	977.50/2,500		
LMV324IYPT	497-10356-1-ND	Low Power Quad In/Out R/R Op Amp* ***NEW!***	14-TSSOP	1.02	.88	.70
LMV324IYPT	497-10356-2-ND	Low Power Quad In/Out R/R Op Amp* ***NEW!***	14-TSSOP	837.50/2,500		
LMV331ICT	497-10355-1-ND	Low Voltage Comparator* ***NEW!***	SC70-5	.83	.72	.57
LMV331ICT	497-10355-2-ND	Low Voltage Comparator* ***NEW!***	SC70-5	822.00/3,000		
LMV331ILT	497-10433-1-ND	Low Voltage Comparator* ***NEW!***	SOT-23-5	.83	.72	.57
LMV331ILT	497-10433-2-ND	Low Voltage Comparator* ***NEW!***	SOT-23-5	822.00/3,000		
LMV358IDT	497-4945-1-ND	Low Power Dual In/Out R/R Op Amp	8-SOIC	1.06	.92	.73
LMV358IDT	497-4945-2-ND	Low Power Dual In/Out R/R Op Amp	8-SOIC	877.50/2,500		
LMV358IPT	497-4946-1-ND	Low Power Dual In/Out R/R Op Amp	8-TSSOP	.85	.74	.59
LMV358IPT	497-4946-2-ND	Low Power Dual In/Out R/R Op Amp	8-TSSOP	1124.00/4,000		
LS204CDT	497-7823-1-ND	High Performance Dual Op Amp*	8-SOIC	2.02	1.74	1.42
LS204CDT	497-7823-2-ND	High Performance Dual Op Amp*	8-SOIC	1950.00/2,500		
LS204CN	497-7335-5-ND	High Performance Dual Op Amp*	8-Dip	1.79	1.62	1.31
LS204IDT	497-7824-1-ND	High Performance Dual Op Amp*	8-SOIC	2.02	1.74	1.42
LS204IDT	497-7824-2-ND	High Performance Dual Op Amp*	8-SOIC	1950.00/2,500		
LS204IYDT	497-10223-1-ND	High Performance Dual Op Amp* ***NEW!***	8-SOIC	2.43	2.08	1.70
LS204IYDT	497-10223-2-ND	High Performance Dual Op Amp* ***NEW!***	8-SOIC	2340.00/2,500		
LS404CDT	497-7825-1-ND	High Performance Quad Op Amp*	14-SOIC	2.87	2.46	2.01
LS404CDT	497-7825-2-ND	High Performance Quad Op Amp*	14-SOIC	2765.00/2,500		
LS404CN	497-7336-5-ND	High Performance Quad Op Amp*	14-Dip	2.54	2.30	1.85
LS404IDT	497-7826-1-ND	High Performance Quad Op Amp*	14-SOIC	3.13	2.68	2.19
LS404IDT	497-7826-2-ND	High Performance Quad Op Amp*	14-SOIC	3015.00/2,500		
LS404IN	497-7337-5-ND	High Performance Quad Op Amp*	14-Dip	1.62	1.44	1.14
MC1458DT	497-1948-1-ND	High Performance Dual Op Amp	8-SOIC	.81	.65	.49
MC1458DT	497-1948-2-ND	High Performance Dual Op Amp	8-SOIC	570.00/2,500		
MC1458ID	497-7405-5-ND	High Performance Dual Op Amp*	8-SOIC	.72	.63	.49
MC1458IN	497-1949-5-ND	High Performance Dual Op Amp	8-Dip	.67	.59	.46
MC1458N	497-7406-5-ND	High Performance Dual Op Amp*	8-Dip	.65	.55	.42
MC1558N	497-7407-5-ND	High Performance Dual Op Amp*	8-Dip	.67	.59	.46
MC3303DT	497-4050-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1.15	1.03	.82
MC3303DT	497-4050-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1060.00/2,500		
MC3303PT	497-7848-1-ND	Low Power Quad Bipolar Op Amp*	14-TSSOP	.96	.86	.69
MC3303PT	497-7848-2-ND	Low Power Quad Bipolar Op Amp*	14-TSSOP	882.50/2,500		
MC3403D	497-1959-5-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1.10	.98	.78
MC3403DT	497-1959-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.86	.51	.35
MC3403N	497-7411-5-ND	Low Power Quad Bipolar Op Amp*	14-Dip	1.10	.98	.78
MC4558CDT	497-4051-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.69	.56	.42
MC4558CDT	497-4051-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	487.50/2,500		
MC4558CN	497-1960-5-ND	Wide Bandwidth Dual Bipolar Op Amp	8-Dip	.63	.56	.43
MC4558CPT	497-7853-1-ND	Wide Bandwidth Dual Bipolar Op Amp*	8-TSSOP	.88	.76	.60
MC4558CPT	497-7853-2-ND	Wide Bandwidth Dual Bipolar Op Amp*	8-TSSOP	1160.00/4,000		
MC4558IDT	497-1961-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	1.02	.88	.70
MC4558IDT	497-1961-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	837.50/2,500		
MC33078DT	497-1952-1-ND	Low Noise Dual Op Amp	8-SOIC	1.02	.88	.70
MC33078DT	497-1952-2-ND	Low Noise Dual Op Amp	8-SOIC	837.50/2,500		
MC33078N	497-1953-5-ND	Low Noise Dual Op Amp	8-Dip	.97	.85	.66
MC33078YDT	497-10224-1-ND	Low Noise Dual Op Amp* ***NEW!***	8-SOIC	1.06	.95	.76
MC33078YDT	497-10224-2-ND	Low Noise Dual Op Amp* ***NEW!***	8-SOIC	977.50/2,500		
MC33079DT	497-1954-1-ND	Low Noise Quad Op Amp	14-SOIC	1.08	.97	.77
MC33079DT	497-1954-2-ND	Low Noise Quad Op Amp	14-SOIC	995.00/2,500		
MC33079YDT	497-10225-1-ND	Low Noise Quad Op Amp* ***NEW!***	14-SOIC	1.28	1.15	.91
MC33079YDT	497-10225-2-ND	Low Noise Quad Op Amp* ***NEW!***	14-SOIC	1175.00/2,500		
MC33171D	497-1956-5-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.07	.95	.75
MC33171DT	497-1956-1-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.16	1.04	.83
MC33171DT	497-1956-2-ND	Low Power Single Bipolar Op Amp	8-SOIC	1067.50/2,500		
MC33171N	497-7408-5-ND	Low Power Single Bipolar Op Amp*	8-Dip	1.07	.95	.75
MC33172DT	497-1957-1-ND	Low Power Dual Bipolar Op Amp	8-SOIC	1.04	.93	.74
MC33172DT	497-1957-2-ND	Low Power Dual Bipolar Op Amp	8-SOIC	955.00/2,500		
MC33172N	497-7409-5-ND	Low Power Dual Bipolar Op Amp*	8-Dip	1.54	1.37	1.09
MC33174DT	497-1958-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1.10	.99	.79
MC33174N	497-7410-5-ND	Low Power Quad Bipolar Op Amp*	14-Dip	1.79	1.62	1.31
OP07CN	497-2991-5-ND	Bipolar Op Amp	8-Dip	1.40	1.24	.98
TJM4558CDT	497-8063-1-ND	Wide Bandwidth Dual Bipolar Op Amp*	8-SOIC	.92	.80	.63
TJM4558CDT	497-8063-2-ND	Wide Bandwidth Dual Bipolar Op Amp*	8-SOIC	762.50/2,500		
TJM4558CN	497-7654-5-ND	Wide Bandwidth Dual Bipolar Op Amp*	8-Dip	.84	.74	.57
TL061ACDT	497-2191-1-ND	Low Power, JFET Single Op Amp	8-SOIC	.92	.80	.63
TL061ACDT	497-2191-2-ND	Low Power, JFET Single Op Amp	8-SOIC	762.50/2,500		
TL061CDT	497-2192-1-ND	Low Power, JFET Single Op Amp	8-SOIC	.70	.60	.48
TL061CDT	497-2192-2-ND	Low Power, JFET Single Op Amp	8-SOIC	572.50/2,500		
TL061CN	497-7655-5-ND	Low Power, JFET Single Op Amp*	8-Dip	.66	.58	.45
TL061IDT	497-4054-1-ND	Low Power, JFET Single Op Amp	8-SOIC	.74	.64	.51
TL061IDT	497-4054-2-ND	Low Power, JFET Single Op Amp	8-SOIC	610.00/2,500		
TL061IN	497-7656-5-ND	Low Power, JFET Single Op Amp*	8-Dip	.66	.58	.45
TL062ACDT	497-2193-1-ND	Low Power, JFET Dual Op Amp	8-SOIC	1.02	.88	.70
TL062ACDT	497-2193-2-ND	Low Power, JFET Dual Op Amp	8-SOIC	837.50/2,500		
TL062BCDT	497-7038-1-ND	Low Power, JFET Dual Op Amp*	8-SOIC	1.60	1.43	1.14
TL062BCDT	497-7038-2-ND	Low Power, JFET Dual Op Amp*	8-SOIC	1470.00/2,500		
TL062CDT	497-2194-1-ND	Low Power, JFET Dual Op Amp	8-SOIC	.75	.61	.46
TL062CDT	497-2194-2-ND	Low Power, JFET Dual Op Amp	8-SOIC	530.00/2,500		
TL062CN	497-2195-5-ND	Low Power, JFET Dual Op Amp	8-Dip	.70	.59	.45
TL062ID	497-3029-5-ND	Low Power, JFET Dual Op Amp	8-SOIC	.66	.58	.45
TL062IDT	497-6763-1-ND	Low Power JFET Dual Op Amp*	8-SOIC	1.16	1.04	.83
TL062IDT	497-6763-2-ND	Low Power JFET Dual Op Amp*	8-SOIC	1067.50/2,500		
TL062IN	497-7657-5-ND	Low Power, JFET Dual Op Amp*	8-Dip	.66	.58	.45
TL064CDT	497-2196-1-ND	Low Power, JFET Quad Op Amp	14-SOIC	.80	.70	.55
TL064CDT	497-2196-2-ND	Low Power, JFET Quad Op Amp	14-SOIC	660.00/2,500		
TL064CN	497-2197-5-ND	Low Power, JFET Quad Op Amp	14-Dip	.73	.64	.50
TL064IDT	497-3030-1-ND	Low Power, JFET Quad Op Amp	14-SOIC	.80	.70	.55
TL064IDT	497-3030-2-ND	Low Power, JFET Quad Op Amp	14-SOIC	660.00/2,500		
TL071CDT	497-4055-1-ND	Low Noise, JFET Single Op Amp	8-SOIC	.75	.61	.46
TL071CDT	497-4055-2-ND	Low Noise, JFET Single Op Amp	8-SOIC	530.00/2,500		
TL071CN	497-3031-5-ND	Low Noise, JFET Single Op Amp	8-Dip	.66	.58	.45
TL071IDT	497-2199-1-ND	Low Noise, JFET Single Op Amp	8-SOIC	.80	.70	.55
TL071IDT	497-2199-2-ND	Low Noise, JFET Single Op Amp	8-SOIC	660.00/2,500		
TL072ACDT	497-8064-1-ND	Low Noise, JFET Dual Op Amp*	8-SOIC	1.48	1.33	1.06
TL072ACDT	497-8064-2-ND	Low Noise, JFET Dual Op Amp*	8-SOIC	1362.50/2,500		
TL072ACN	497-7658-5-ND	Low Noise, JFET Dual Op Amp*	8-Dip	1.06	.94	.75

* *RoHS Compliant*

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(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TL072BCN	497-7039-5-ND	Low Noise, JFET Dual Op Amp*	8-Dip	1.80	1.56	1.20
TL072BIDT	497-7040-1-ND	Low Noise, JFET Dual Op Amp*	8-SOIC	1.40	1.26	1.00
TL072BIDT	497-7040-2-ND	Low Noise, JFET Dual Op Amp*	8-SOIC	1287.50/2,500		
TL072BIYDT	497-10227-1-ND	Low Noise, JFET Dual Op Amp* ***NEW!***	8-SOIC	1.68	1.50	1.20
TL072BIYDT	497-10227-2-ND	Low Noise, JFET Dual Op Amp* ***NEW!***	8-SOIC	1542.50/2,500		
TL072CDT	497-2200-1-ND	Low Noise, JFET Dual Op Amp	8-SOIC	.64	.51	.39
TL072CDT	497-2200-2-ND	Low Noise, JFET Dual Op Amp	8-SOIC	450.00/2,500		
TL072CN	497-2201-5-ND	Low Noise, JFET Dual Op Amp	8-Dip	.51	.43	.33
TL072IDT	497-2202-1-ND	Low Noise, JFET Dual Op Amp	8-SOIC	.81	.65	.49
TL072IDT	497-2202-2-ND	Low Noise, JFET Dual Op Amp	8-SOIC	570.00/2,500		
TL072IN	497-7659-5-ND	Low Noise, JFET Dual Op Amp*	8-Dip	.78	.68	.53
TL074ACDT	497-2203-1-ND	Low Noise, JFET Quad Op Amp	14-SOIC	1.47	1.32	1.05
TL074ACDT	497-2203-2-ND	Low Noise, JFET Quad Op Amp	14-SOIC	1355.00/2,500		
TL074ACN	497-7660-5-ND	Low Noise, JFET Quad Op Amp*	14-Dip	1.18	1.05	.83
TL074BCN	497-7041-5-ND	Low Noise, JFET Quad Op Amp*	14-Dip	2.44	2.21	1.78
TL074CDT	497-2204-1-ND	Low Noise, JFET Quad Op Amp	14-SOIC	.75	.61	.46
TL074CDT	497-2204-2-ND	Low Noise, JFET Quad Op Amp	14-SOIC	530.00/2,500		
TL074CN	497-2205-5-ND	Low Noise, JFET Quad Op Amp	14-Dip	.65	.55	.42
TL074IDT	497-4056-1-ND	Low Noise, JFET Quad Op Amp	14-SOIC	.92	.80	.63
TL074IDT	497-4056-2-ND	Low Noise, JFET Quad Op Amp	14-SOIC	762.50/2,500		
TL074IN	497-2206-5-ND	Low Noise, JFET Quad Op Amp	14-Dip	.92	.81	.63
TL074IYDT	497-10228-1-ND	Low Noise, JFET Quad Op Amp* ***NEW!***	14-SOIC	.96	.86	.69
TL074IYDT	497-10228-2-ND	Low Noise, JFET Quad Op Amp* ***NEW!***	14-SOIC	882.50/2,500		
TL081ACDT	497-2207-1-ND	JFET Single Op Amp	8-SOIC	1.00	.90	.72
TL081ACDT	497-2207-2-ND	JFET Single Op Amp	8-SOIC	920.00/2,500		
TL081CN	497-2209-5-ND	JFET Single Op Amp	8-Dip	.70	.59	.45
TL081IDT	497-2210-1-ND	JFET Single Op Amp	8-SOIC	.79	.68	.54
TL081IDT	497-2210-2-ND	JFET Single Op Amp	8-SOIC	650.00/2,500		
TL081IN	497-7661-5-ND	JFET Single Op Amp*	8-Dip	.73	.64	.50
TL082ACN	497-7662-5-ND	JFET Dual Op Amp*	8-Dip	.92	.81	.63
TL082AIYDT	497-10229-1-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1.60	1.43	1.14
TL082AIYDT	497-10229-2-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1470.00/2,500		
TL082BIYDT	497-10230-1-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1.68	1.50	1.20
TL082BIYDT	497-10230-2-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1542.50/2,500		
TL082CDT	497-2212-1-ND	JFET Dual Op Amp	8-SOIC	.75	.61	.46
TL082CDT	497-2212-2-ND	JFET Dual Op Amp	8-SOIC	530.00/2,500		
TL082CN	497-2213-5-ND	JFET Dual Op Amp	8-Dip	.65	.55	.42
TL082CPT	497-4057-1-ND	JFET Dual Op Amp	8-TSSOP	.83	.72	.57
TL082CPT	497-4057-2-ND	JFET Dual Op Amp	8-TSSOP	1096.00/4,000		
TL082IDT	497-2214-1-ND	JFET Dual Op Amp	8-SOIC	.88	.76	.60
TL082IDT	497-2214-2-ND	JFET Dual Op Amp	8-SOIC	725.00/2,500		
TL082IN	497-3032-5-ND	JFET Dual Op Amp	8-Dip	.81	.71	.55
TL082IPT	497-8065-1-ND	JFET Dual Op Amp*	8-TSSOP	1.00	.90	.72
TL082IPT	497-8065-2-ND	JFET Dual Op Amp*	8-TSSOP	1472.00/4,000		
TL082IYDT	497-10231-1-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1.52	1.36	1.08
TL082IYDT	497-10231-2-ND	JFET Dual Op Amp* ***NEW!***	8-SOIC	1397.50/2,500		
TL084ACDT	497-2215-1-ND	JFET Quad Op Amp	14-SOIC	1.08	.97	.77
TL084ACDT	497-2215-2-ND	JFET Quad Op Amp	14-SOIC	995.00/2,500		
TL084ACN	497-2216-5-ND	JFET Quad Op Amp	14-Dip	.99	.88	.70
TL084AIDT	497-4752-1-ND	JFET Quad Op Amp	14-SOIC	1.26	1.13	.90
TL084AIDT	497-4752-2-ND	JFET Quad Op Amp	14-SOIC	1162.50/2,500		
TL084BCDT	497-8066-1-ND	JFET Quad Op Amp*	14-SOIC	3.31	2.84	2.32
TL084BCDT	497-8066-2-ND	JFET Quad Op Amp*	14-SOIC	3190.00/2,500		
TL084BIDT	497-7042-1-ND	JFET Quad Op Amp*	14-SOIC	2.02	1.74	1.42
TL084BIDT	497-7042-2-ND	JFET Quad Op Amp*	14-SOIC	1950.00/2,500		
TL084BIN	497-7043-5-ND	JFET Quad Op Amp*	14-Dip	1.79	1.62	1.31
TL084CD	497-3033-5-ND	JFET Quad Op Amp	14-SOIC	.70	.59	.45
TL084CDT	497-2217-1-ND	JFET Quad Op Amp	14-SOIC	.81	.65	.49
TL084CDT	497-2217-2-ND	JFET Quad Op Amp	14-SOIC	570.00/2,500		
TL084CN	497-2218-5-ND	JFET Quad Op Amp	14-Dip	.72	.63	.49
TL084CPT	497-2219-1-ND	JFET Quad Op Amp	14-TSSOP	.92	.79	.63
TL084CPT	497-2219-2-ND	JFET Quad Op Amp	14-TSSOP	755.00/2,500		
TL084IDT	497-2220-1-ND	JFET Quad Op Amp	14-SOIC	.97	.84	.67
TL084IDT	497-2220-2-ND	JFET Quad Op Amp	14-SOIC	800.00/2,500		
TL084IN	497-2221-5-ND	JFET Quad Op Amp	14-Dip	.92	.81	.63
TL084IPT	497-8067-1-ND	JFET Quad Op Amp*	14-TSSOP	1.24	1.11	.89
TL084IPT	497-8067-2-ND	JFET Quad Op Amp*	14-TSSOP	1140.00/2,500		
TL084IYDT	497-10232-1-ND	JFET Quad Op Amp* ***NEW!***	14-SOIC	1.00	.90	.72
TL084IYDT	497-10232-2-ND	JFET Quad Op Amp* ***NEW!***	14-SOIC	920.00/2,500		
TS27L2ACDT	497-7673-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	1.36	1.22	.97
TS27L2ACDT	497-7673-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	1250.00/2,500		
TS27L2ACN	497-7674-5-ND	Precision LP, CMOS Dual Op Amp*	8-Dip	1.36	1.22	1.64
TS27L2AID	497-2250-5-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	2.05	1.86	1.49
TS27L2AIN	497-7675-5-ND	Precision LP, CMOS Dual Op Amp*	8-Dip	2.60	2.36	1.89
TS27L2BCDT	497-8082-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	1.84	1.58	1.29
TS27L2BCDT	497-8082-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	1772.50/2,500		
TS27L2BIDT	497-8083-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	3.13	2.68	2.19
TS27L2BIDT	497-8083-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	3015.00/2,500		
TS27L2CDT	497-6774-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	.92	.79	.63
TS27L2CDT	497-6774-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	755.00/2,500		
TS27L2CN	497-7676-5-ND	Precision LP, CMOS Dual Op Amp*	8-Dip	2.60	2.36	1.89
TS27L2CPT	497-8084-1-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	1.68	1.50	1.20
TS27L2CPT	497-8084-2-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	2468.00/4,000		
TS27L2IDT	497-2251-1-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1.28	1.15	.91
TS27L2IDT	497-2251-2-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1175.00/2,500		
TS27L2IPT	497-8085-1-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	1.80	1.55	1.27
TS27L2IPT	497-8085-2-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	2780.00/4,000		
TS27L4AID	497-2252-5-ND	Precision LP, CMOS Quad Op Amp	14-SOIC	2.12	1.92	1.54
TS27L4AIN	497-2253-5-ND	Precision LP, CMOS Quad Op Amp	14-Dip	2.12	1.92	1.54
TS27L4CDT	497-8086-1-ND	Precision LP, CMOS Quad Op Amp*	14-SOIC	1.80	1.61	1.28
TS27L4CDT	497-8086-2-ND	Precision LP, CMOS Quad Op Amp*	14-SOIC	1655.00/2,500		
TS27L4CN	497-2254-5-ND	Precision LP, CMOS Quad Op Amp	14-Dip	1.06	.94	.75
TS27L4IDT	497-2255-1-ND	Precision LP, CMOS Quad Op Amp	14-SOIC	1.40	1.26	1.00
TS27L4IDT	497-2255-2-ND	Precision LP, CMOS Quad Op Amp	14-SOIC	1287.50/2,500		
TS27L4IN	497-2256-5-ND	Precision LP, CMOS Quad Op Amp	14-Dip	1.40	1.24	.98
TS27L4IPT	497-8087-1-ND	Precision LP, CMOS Quad Op Amp*	14-TSSOP	2.28	1.96	1.60
TS27L4IPT	497-8087-2-ND	Precision LP, CMOS Quad Op Amp*	14-TSSOP	2197.50/2,500		
TS27M2ACDT	497-8088-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	2.50	2.15	1.75
TS27M2ACDT	497-8088-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	2410.00/2,500		
TS27M2AIDT	497-2257-1-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1.44	1.29	1.03
TS27M2AIDT	497-2257-2-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1322.50/2,500		
TS27M2AIN	497-2258-5-ND	Precision LP, CMOS Dual Op Amp	8-Dip	1.66	1.47	1.16
TS27M2BIDT	497-4445-1-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	3.13	2.68	2.19
TS27M2BIDT	497-4445-2-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	3015.00/2,500		
TS27M2CDT	497-8089-1-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	1.02	.88	.70
TS27M2CDT	497-8089-2-ND	Precision LP, CMOS Dual Op Amp*	8-SOIC	837.50/2,500		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS27M2CPT	497-6775-1-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	1.68	1.50	1.20
TS27M2CPT	497-6775-2-ND	Precision LP, CMOS Dual Op Amp*	8-TSSOP	2468.00/4,000		
TS27M2IDT	497-2259-1-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1.47	1.32	1.05
TS27M2IDT	497-2259-2-ND	Precision LP, CMOS Dual Op Amp	8-SOIC	1355.00/2,500		
TS27M2IN	497-2260-5-ND	Precision LP, CMOS Dual Op Amp	8-Dip	1.40	1.24	.98
TS27M4CDT	497-8090-1-ND	Precision LP, CMOS Quad Op Amp*	14-SOIC	1.80	1.61	1.28
TS27M4CDT	497-8090-2-ND	Precision LP, CMOS Quad Op Amp*	14-SOIC	1655.00/2,500		
TS27M4IN	497-2263-5-ND	Precision LP, CMOS Quad Op Amp	14-Dip	1.57	1.43	1.15
TS27M4IPT	497-8091-1-ND	Precision LP, CMOS Quad Op Amp*	14-TSSOP	2.24	1.93	1.58
TS27M4IPT	497-8091-2-ND	Precision LP, CMOS Quad Op Amp*	14-TSSOP	2162.50/2,500		
TS271ACDT	497-2242-1-ND	CMOS Programmable LP Single Op Amp	8-SOIC	1.32	1.18	.94
TS271ACDT	497-2242-2-ND	CMOS Programmable LP Single Op Amp	8-SOIC	1215.00/2,500		
TS271ACN	497-2243-5-ND	CMOS Programmable LP Single Op Amp	8-Dip	1.21	1.08	.86
TS271BIDT	497-8075-1-ND	CMOS Programmable LP Single Op Amp*	8-SOIC	2.21	1.89	1.55
TS271BIDT	497-8075-2-ND	CMOS Programmable LP Single Op Amp*	8-SOIC	2127.50/2,500		
TS271CDT	497-8076-1-ND	CMOS Programmable LP Single Op Amp*	8-SOIC	1.04	.93	.74
TS271CDT	497-8076-2-ND	CMOS Programmable LP Single Op Amp*	8-SOIC	955.00/2,500		
TS271CN	497-7670-5-ND	CMOS Programmable LP Single Op Amp*	8-Dip	.92	.82	.65
TS271IDT	497-2244-1-ND	CMOS Programmable LP Single Op Amp	8-SOIC	1.00	.90	.72
TS271IDT	497-2244-2-ND	CMOS Programmable LP Single Op Amp	8-SOIC	920.00/2,500		
TS272ACDT	497-8077-1-ND	CMOS Dual Op Amp*	8-SOIC	2.50	2.15	1.75
TS272ACDT	497-8077-2-ND	CMOS Dual Op Amp*	8-SOIC	2410.00/2,500		
TS272AID	497-2245-5-ND	CMOS Dual Op Amp	8-SOIC	1.32	1.18	.93
TS272AIN	497-2246-5-ND	CMOS Dual Op Amp	8-Dip	1.47	1.31	1.03
TS272BIDT	497-8078-1-ND	CMOS Dual Op Amp*	8-SOIC	3.13	2.68	2.19
TS272BIDT	497-8078-2-ND	CMOS Dual Op Amp*	8-SOIC	3015.00/2,500		
TS272CD	497-3037-5-ND	CMOS Dual Op Amp	8-SOIC	1.32	1.18	.93
TS272CN	497-7671-5-ND	CMOS Dual Op Amp*	8-Dip	1.32	1.18	.93
TS272CPT	497-8079-1-ND	CMOS Dual Op Amp*	8-TSSOP	1.24	1.11	.89
TS272CPT	497-8079-2-ND	CMOS Dual Op Amp*	8-TSSOP	1824.00/4,000		
TS272IDT	497-2247-1-ND	CMOS Dual Op Amp	8-SOIC	1.84	1.65	1.31
TS272IDT	497-2247-2-ND	CMOS Dual Op Amp	8-SOIC	1690.00/2,500		
TS272IPT	497-8080-1-ND	CMOS Dual Op Amp*	8-TSSOP	1.84	1.65	1.31
TS272IPT	497-8080-2-ND	CMOS Dual Op Amp*	8-TSSOP	2704.00/4,000		
TS274ACDT	497-8081-1-ND	CMOS Quad Op Amp*	14-SOIC	3.13	2.68	2.19
TS274ACDT	497-8081-2-ND	CMOS Quad Op Amp*	14-SOIC	3015.00/2,500		
TS274CDT	497-4060-1-ND	CMOS Quad Op Amp	14-SOIC	1.12	1.00	.80
TS274CDT	497-4060-2-ND	CMOS Quad Op Amp	14-SOIC	1030.00/2,500		
TS274CN	497-7672-5-ND	CMOS Quad Op Amp*	14-Dip	1.58	1.41	1.11
TS274IDT	497-2249-1-ND	CMOS Quad Op Amp	14-SOIC	1.82	1.57	1.28
TS274IDT	497-2249-2-ND	CMOS Quad Op Amp	14-SOIC	1757.50/2,500		
TS274IN	497-5196-ND	CMOS Quad Op Amp*	14-Dip	1.79	1.62	1.31
TS321AILT	497-8093-1-ND	Low Power Single Op Amp*	SOT-23-5	1.04	.93	.74
TS321AILT	497-8093-2-ND	Low Power Single Op Amp*	SOT-23-5	1146.00/3,000		
TS321AIYLT	497-10242-1-ND	Low Power Single Op Amp* ***NEW!***	SOT-23-5	1.02	.88	.70
TS321AIYLT	497-10242-2-ND	Low Power Single Op Amp* ***NEW!***	SOT-23-5	1005.00/3,000		
TS321IDT	497-8094-1-ND	Low Power Single Op Amp*	8-SOIC	1.02	.88	.70
TS321IDT	497-8094-2-ND	Low Power Single Op Amp*	8-SOIC	837.50/2,500		
TS321ILT	497-4061-1-ND	Low Power Single Op Amp	SOT-23-5	.75	.65	.51
TS321ILT	497-4061-2-ND	Low Power Single Op Amp	SOT-23-5	741.00/3,000		
TS321IYLT	497-10243-1-ND	Low Power Single Op Amp* ***NEW!***	SOT-23-5	.83	.72	.57
TS321IYLT	497-10243-2-ND	Low Power Single Op Amp* ***NEW!***	SOT-23-5	822.00/3,000		
TS339CDT	497-8095-1-ND	Micropower Quad CMOS Voltage Comparator*	14-SOIC	1.24	1.12	.89
TS339CDT	497-8095-2-ND	Micropower Quad CMOS Voltage Comparator*	14-SOIC	1145.00/2,500		
TS339CPT	497-4062-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	.85	.74	.59
TS339CPT	497-4062-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	702.50/2,500		
TS339IDT	497-2264-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	1.04	.93	.74
TS339IDT	497-2264-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	955.00/2,500		
TS339IN	497-2265-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.07	.95	.75
TS339IPT	497-2266-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.44	1.29	1.03
TS339IPT	497-2266-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1322.50/2,500		
TS339IYDT	497-10244-1-ND	Micropower Quad CMOS Voltage Comparator* ***NEW!***	14-SOIC	1.00	.90	.72
TS339IYDT	497-10244-2-ND	Micropower Quad CMOS Voltage Comparator* ***NEW!***	14-SOIC	920.00/2,500		
TS372CDT	497-6612-1-ND	LP, Dual CMOS Voltage Comparator*	8-SOIC	.97	.87	.69
TS372CDT	497-6612-2-ND	LP, Dual CMOS Voltage Comparator*	8-SOIC	892.50/2,500		
TS372CN	497-7678-5-ND	LP, Dual CMOS Voltage Comparator*	8-Dip	1.03	.92	.73
TS372IDT	497-2271-1-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1.40	1.26	1.00
TS372IDT	497-2271-2-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1287.50/2,500		
TS372IN	497-2272-5-ND	LP, Dual CMOS Voltage Comparator	8-Dip	1.19	1.06	.84
TS374CDT	497-8097-1-ND	LP, Quad CMOS Voltage Comparator*	14-SOIC	1.56	1.40	1.11
TS374CDT	497-8097-2-ND	LP, Quad CMOS Voltage Comparator*	14-SOIC	1435.00/2,500		
TS374IDT	497-2273-1-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	1.20	1.08	.86
TS374IDT	497-2273-2-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	1102.50/2,500		
TS374IN	497-2274-5-ND	LP, Quad CMOS Voltage Comparator	14-Dip	1.66	1.51	1.21
TS391ILT	497-2275-1-ND	LP, Single Voltage Comparator	SOT-23-5	.88	.76	.60
TS391ILT	497-2275-2-ND	LP, Single Voltage Comparator	SOT-23-5	870.00/3,000		
TS391IYLT	497-10245-1-ND	LP, Single Voltage Comparator* ***NEW!***	SOT-23-5	.92	.80	.63
TS391IYLT	497-10245-2-ND	LP, Single Voltage Comparator* ***NEW!***	SOT-23-5	915.00/3,000		
TS393CDT	497-6613-1-ND	Micropower Dual CMOS Voltage Comparator*	8-SOIC	1.16	1.04	.83
TS393CDT	497-6613-2-ND	Micropower Dual CMOS Voltage Comparator*	8-SOIC	1067.50/2,500		
TS393CN	497-7679-5-ND	Micropower Dual CMOS Voltage Comparator*	8-Dip	1.07	.95	.75
TS393IDT	497-2276-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.02	.88	.70
TS393IDT	497-2276-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	837.50/2,500		
TS393IN	497-2277-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.36	1.21	.96

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS393IPT	497-8098-1-ND	Micropower Dual CMOS Voltage Comparator*	8-TSSOP	.96	.86	.69
TS393IPT	497-8098-2-ND	Micropower Dual CMOS Voltage Comparator*	8-TSSOP	1412.00/4,000		
TS393IYDT	497-10246-1-ND	Micropower Dual CMOS Voltage Comparator* ***NEW!***	8-SOIC	.95	.83	.65
TS393IYDT	497-10246-2-ND	Micropower Dual CMOS Voltage Comparator* ***NEW!***	8-SOIC	782.50/2,500		
TS461CD	497-3039-5-ND	Output Rail-to-Rail Op Amp	8-SOIC	.97	.85	.66
TS461CDT	497-2281-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	1.06	.92	.73
TS461CDT	497-2281-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	877.50/2,500		
TS461CLT	497-2282-1-ND	Output Rail-to-Rail Op Amp	SOT-23-5	.96	.86	.69
TS461CLT	497-2282-2-ND	Output Rail-to-Rail Op Amp	SOT-23-5	1059.00/3,000		
TS462CD	497-5431-5-ND	Output Rail-to-Rail Op Amp*	8-SOIC	.88	.79	.62
TS462CDT	497-2283-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	.96	.86	.69
TS462CDT	497-2283-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	882.50/2,500		
TS462CPT	497-4067-1-ND	Output Rail-to-Rail Op Amp	8-TSSOP	1.00	.90	.72
TS462CPT	497-4067-2-ND	Output Rail-to-Rail Op Amp	8-TSSOP	1472.00/4,000		
TS462CST	497-8109-1-ND	Output R/R Op Amp*	8-Mini SOIC	1.16	1.04	.83
TS462CST	497-8109-2-ND	Output R/R Op Amp*	8-Mini SOIC	1708.00/4,000		
TS464CD	497-3040-5-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.03	.92	.73
TS464CDT	497-2285-1-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.12	1.00	.80
TS464CDT	497-2285-2-ND	Output Rail-to-Rail Op Amp	14-SOIC	1030.00/2,500		
TS464CPT	497-5432-1-ND	Output Rail-to-Rail Op Amp*	14-TSSOP	1.12	1.00	.80
TS507CDT	497-5996-1-ND	High Precision R/R Op Amp*	8-SOIC	2.42	2.08	1.70
TS507CDT	497-5996-2-ND	High Precision R/R Op Amp*	8-SOIC	2332.50/2,500		
TS507CLT	497-6944-1-ND	High Precision R/R Op Amp*	SOT-23-5	2.54	2.18	1.78
TS507CLT	497-6944-2-ND	High Precision R/R Op Amp*	SOT-23-5	2937.00/3,000		
TS507IDT	497-5997-1-ND	High Precision R/R Op Amp*	8-SOIC	2.48	2.18	1.85
TS507ILT	497-8118-1-ND	High Precision R/R Op Amp*	SOT-23-5	2.54	2.18	1.78
TS507ILT	497-8118-2-ND	High Precision R/R Op Amp*	SOT-23-5	2937.00/3,000		
TS507IYLT	497-10249-1-ND	High Precision R/R Op Amp* ***NEW!***	SOT-23-5	1.84	1.58	1.29
TS507IYLT	497-10249-2-ND	High Precision R/R Op Amp* ***NEW!***	SOT-23-5	2127.00/3,000		
TS512AIDT	497-2295-1-ND	Precision Dual Op Amp	8-SOIC	1.60	1.43	1.14
TS512AIDT	497-2295-2-ND	Precision Dual Op Amp	8-SOIC	1470.00/2,500		
TS512AIYDT	497-10250-1-ND	Precision Dual Op Amp* ***NEW!***	8-SOIC	2.10	1.80	1.47
TS512AIYDT	497-10250-2-ND	Precision Dual Op Amp* ***NEW!***	8-SOIC	2022.50/2,500		
TS512IDT	497-2296-1-ND	Precision Dual Op Amp	8-SOIC	1.56	1.40	1.11
TS512IDT	497-2296-2-ND	Precision Dual Op Amp	8-SOIC	1435.00/2,500		
TS512IYDT	497-10251-1-ND	Precision Dual Op Amp* ***NEW!***	8-SOIC	1.60	1.43	1.14
TS512IYDT	497-10251-2-ND	Precision Dual Op Amp* ***NEW!***	8-SOIC	1470.00/2,500		
TS514AIDT	497-4453-1-ND	Precision Quad Op Amp	14-SOIC	2.32	1.99	1.63
TS514AIDT	497-4453-2-ND	Precision Quad Op Amp	14-SOIC	2235.00/2,500		
TS514IDT	497-8119-1-ND	Precision Quad Op Amp*	14-SOIC	2.06	1.77	1.45
TS514IDT	497-8119-2-ND	Precision Quad Op Amp*	14-SOIC	1985.00/2,500		
TS522ID	497-3042-5-ND	Low Noise, Dual Op Amp	8-SOIC	1.40	1.24	.98
TS522IDT	497-2297-1-ND	Low Noise, Dual Op Amp	8-SOIC	1.52	1.36	1.08
TS522IDT	497-2297-2-ND	Low Noise, Dual Op Amp	8-SOIC	1397.50/2,500		
TS524IDT	497-8120-1-ND	Precision LN Quad Op Amp*	14-SOIC	1.84	1.65	1.31
TS524IDT	497-8120-2-ND	Precision LN Quad Op Amp*	14-SOIC	1690.00/2,500		
TS613ID	497-5434-5-ND	Dual Wide Band Op Amp*	8-SOIC	5.29	4.73	3.88
TS616IDW	497-4454-5-ND	Dual Wide Band Op Amp	8-TSSOP	2.86	2.59	2.08
TS616IDWT	497-4455-1-ND	Dual Wide Band Op Amp	8-TSSOP	3.23	2.78	2.27
TS616IDWT	497-4455-2-ND	Dual Wide Band Op Amp	8-TSSOP	3117.50/2,500		
TS617IDT	497-8529-1-ND	Dual Wide Band Op Amp*	14-SOIC	3.31	2.84	2.32
TS617IDT	497-8529-2-ND	Dual Wide Band Op Amp*	14-SOIC	3190.00/2,500		
TS861AIDT	497-8130-1-ND	R/R, Micropower BiCMOS Comparator*	8-SOIC	1.40	1.26	1.00
TS861AIDT	497-8130-2-ND	R/R, Micropower BiCMOS Comparator*	8-SOIC	1287.50/2,500		
TS861AILT	497-2308-1-ND	R/R, Micropower BiCMOS Comparator	SOT-23-5	2.35	2.02	1.65
TS861AILT	497-2308-2-ND	R/R, Micropower BiCMOS Comparator	SOT-23-5	2721.00/3,000		
TS861IDT	497-4072-1-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	1.78	1.53	1.25
TS861IDT	497-4072-2-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	1715.00/2,500		
TS861ILT	497-6777-1-ND	R/R, Micropower BiCMOS Comparator*	SOT-23-5	2.28	1.96	1.60
TS861ILT	497-6777-2-ND	R/R, Micropower BiCMOS Comparator*	SOT-23-5	2637.00/3,000		
TS862IDT	497-8131-1-ND	R/R, Micropower BiCMOS Comparator*	8-SOIC	2.28	1.96	1.60
TS862IDT	497-8131-2-ND	R/R, Micropower BiCMOS Comparator*	8-SOIC	2197.50/2,500		
TS862IPT	497-8132-1-ND	R/R, Micropower BiCMOS Comparator*	8-TSSOP	2.28	1.96	1.60
TS862IPT	497-8132-2-ND	R/R, Micropower BiCMOS Comparator*	8-TSSOP	3516.00/4,000		
TS864AIDT	497-4073-1-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2.65	2.27	1.86
TS864AIDT	497-4073-2-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2552.50/2,500		
TS864IDT	497-8133-1-ND	R/R, Micropower BiCMOS Comparator*	14-SOIC	2.94	2.52	2.06
TS864IDT	497-8133-2-ND	R/R, Micropower BiCMOS Comparator*	14-SOIC	2835.00/2,500		
TS864IPT	497-8134-1-ND	R/R, Micropower BiCMOS Comparator*	14-TSSOP	2.94	2.52	2.06
TS864IPT	497-8134-2-ND	R/R, Micropower BiCMOS Comparator*	14-TSSOP	2835.00/2,500		
TS902IDT	497-8135-1-ND	R/R, CMOS Dual Op Amp*	14-SOIC	1.49	1.28	1.04
TS912AIDT	497-2310-1-ND	R/R, CMOS Dual Op Amp	8-SOIC	2.02	1.74	1.42
TS912AIDT	497-2310-2-ND	R/R, CMOS Dual Op Amp	8-SOIC	1950.00/2,500		
TS912AIN	497-7682-5-ND	R/R, CMOS Dual Op Amp*	8-Dip	1.79	1.62	1.31
TS912BIDT	497-6617-1-ND	R/R, CMOS Dual Op Amp*	8-SOIC	2.68	2.31	1.88
TS912BIDT	497-6617-2-ND	R/R, CMOS Dual Op Amp*	8-SOIC	2587.50/2,500		
TS912IDT	497-6618-1-ND	R/R, CMOS Dual Op Amp*	8-SOIC	1.44	1.29	1.03
TS912IDT	497-6618-2-ND	R/R, CMOS Dual Op Amp*	8-SOIC	1322.50/2,500		
TS912IN	497-7683-5-ND	R/R, CMOS Dual Op Amp*	8-Dip	1.73	1.56	1.26
TS912IYDT	497-10252-1-ND	R/R, CMOS Dual Op Amp* ***NEW!***	8-SOIC	1.72	1.54	1.23
TS912IYDT	497-10252-2-ND	R/R, CMOS Dual Op Amp* ***NEW!***	8-SOIC	1582.50/2,500		
TS914AIDT	497-2311-1-ND	R/R, CMOS Quad Op Amp	14-SOIC	2.54	2.18	1.78
TS914AIDT	497-2311-2-ND	R/R, CMOS Quad Op Amp	14-SOIC	2447.50/2,500		
TS914AIYDT	497-10253-1-ND	R/R, CMOS Quad Op Amp* ***NEW!***	14-SOIC	2.94	2.52	2.06
TS914AIYDT	497-10253-2-ND	R/R, CMOS Quad Op Amp* ***NEW!***	14-SOIC	2835.00/2,500		
TS914IDT	497-6042-1-ND	R/R, CMOS Quad Op Amp*	14-SOIC	2.50	2.15	1.75
TS914IDT	497-6042-2-ND	R/R, CMOS Quad Op Amp*	14-SOIC	2410.00/2,500		
TS914IYDT	497-10254-1-ND	R/R, CMOS Quad Op Amp* ***NEW!***	14-SOIC	2.32	1.99	1.63
TS914IYDT	497-10254-2-ND	R/R, CMOS Quad Op Amp* ***NEW!***	14-SOIC	2235.00/2,500		
TS921IDT	497-4074-1-ND	R/R, High Output Current Single Op Amp	8-SOIC	1.64	1.47	1.17
TS921IDT	497-4074-2-ND	R/R, High Output Current Single Op Amp	8-SOIC	1507.50/2,500		
TS921IN	497-4075-5-ND	R/R, High Output Current Single Op Amp	8-Dip	1.51	1.34	1.06
TS921IPT	497-8136-1-ND	R/R, High Output Curr. Single Op Amp*	8-TSSOP	1.52	1.36	1.08
TS921IPT	497-8136-2-ND	R/R, High Output Curr. Single Op Amp*	8-TSSOP	2236.00/4,000		
TS922AIDT	497-6221-1-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	2.17	1.86	1.52
TS922AIDT	497-6221-2-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	2092.50/2,500		
TS922AIPT	497-8137-1-ND	R/R, High Output Current Dual Op Amp*	8-TSSOP	2.35	2.02	1.65
TS922AIPT	497-8137-2-ND	R/R, High Output Current Dual Op Amp*	8-TSSOP	3628.00/4,000		
TS922AIYDT	497-10255-1-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-SOIC	1.88	1.68	1.34
TS922AIYDT	497-10255-2-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-SOIC	1730.00/2,500		
TS922AIYPT	497-10256-1-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-TSSOP	1.88	1.68	1.34
TS922AIYPT	497-10256-2-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-TSSOP	2768.00/4,000		
TS922IDT	497-6035-1-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	2.17	1.86	1.52
TS922IDT	497-6035-2-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	2092.50/2,500		
TS922IN	497-3049-5-ND	R/R, High Output Current Dual Op Amp	8-Dip	1.92	1.74	1.40
TS922IPT	497-6619-1-ND	R/R, High Output Current Dual Op Amp*	8-TSSOP	1.88	1.61	1.32
TS922IPT	497-6619-2-ND	R/R, High Output Current Dual Op Amp*	8-TSSOP	2896.00/4,000		
TS922IYDT	497-10257-1-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-SOIC	1.48	1.33	1.06
TS922IYDT	497-10257-2-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-SOIC	1362.50/2,500		
TS922IYPT	497-10258-1-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-TSSOP	1.48	1.33	1.06
TS922IYPT	497-10258-2-ND	R/R, High Output Current Dual Op Amp* ***NEW!***	8-TSSOP	2180.00/4,000		
TS924AID	497-2314-5-ND	R/R, High Output Current Quad Op Amp	14-SOIC	3.03	2.74	2.20
TS924AIPT	497-8138-1-ND	R/R, High Output Current Quad Op Amp*	14-TSSOP	3.09	2.78	2.27
TS924AIPT	497-8138-2-ND	R/R, High Output Current Quad Op Amp*	14-TSSOP	3422.50/2,500		
TS924AIYDT	497-10259-1-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-SOIC	2.32	1.99	1.63
TS924AIYDT	497-10259-2-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-SOIC	2235.00/2,500		
TS924AIYPT	497-10260-1-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-TSSOP	2.32	1.99	1.63
TS924AIYPT	497-10260-2-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-TSSOP	2235.00/2,500		
TS924ID	497-6778-5-ND	R/R I/O Quad Op Amp*	14-SOIC	2.51	2.27	1.83
TS924IDT	497-8139-1-ND	R/R, High Output Current Quad Op Amp*	14-SOIC	2.83	2.43	1.99
TS924IDT	497-8139-2-ND	R/R, High Output Current Quad Op Amp*	14-SOIC	2730.00/2,500		
TS924IPT	497-8140-1-ND	R/R, High Output Current Quad Op Amp*	14-TSSOP	3.05	2.62	2.14
TS924IPT	497-8140-2-ND	R/R, High Output Current Quad Op Amp*	14-TSSOP	2942.50/2,500		
TS924IYDT	497-10261-1-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-SOIC	2.13	1.83	1.50
TS924IYDT	497-10261-2-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-SOIC	2055.00/2,500		
TS924IYPT	497-10262-1-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-TSSOP	2.13	1.83	1.50
TS924IYPT	497-10262-2-ND	R/R, High Output Current Quad Op Amp* ***NEW!***	14-TSSOP	2055.00/2,500		
TS925AIPT	497-4076-1-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	3.12	2.81	2.29
TS925AIPT	497-4076-2-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	3457.50/2,500		
TS925ID	497-3050-5-ND	R/R, High Output Current Quad Op Amp	16-SOIC	2.25	2.03	1.64
TS925IDT	497-6779-1-ND	R/R I/O Quad Op Amp*	16-SOIC	2.94	2.52	2.06
TS925IDT	497-6779-2-ND	R/R I/O Quad Op Amp*	16-SOIC	2835.00/2,500		
TS925IPT	497-8141-1-ND	R/R, High Output Current Quad Op Amp*	16-TSSOP	3.27	2.81	2.30
TS925IPT	497-8141-2-ND	R/R, High Output Current Quad Op Amp*	16-TSSOP	3155.00/2,500		
TS931AILT	497-8142-1-ND	Output R/R Micropower Op Amp*	SOT-23-5	1.08	.97	.77
TS931AILT	497-8142-2-ND	Output R/R Micropower Op Amp*	SOT-23-5	1194.00/3,000		
TS931ID	497-3051-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.32	1.18	.93
TS931ILT	497-4077-1-ND	Output R/R Micropower Op Amp	SOT-23-5	1.44	1.29	1.03
TS931ILT	497-4077-2-ND	Output R/R Micropower Op Amp	SOT-23-5	1587.00/3,000		
TS932ID	497-3052-5-ND	Dual Out R/R Micropower Op Amp	8-SOIC	1.58	1.41	1.11
TS934AIYDT	497-10263-1-ND	Quad Out R/R Micropwr Op Amp* ***NEW!***	14-SOIC	2.21	1.89	1.55
TS934AIYDT	497-10263-2-ND	Quad Out R/R Micropwr Op Amp* ***NEW!***	14-SOIC	2127.50/2,500		
TS934ID	497-3053-5-ND	Quad Out R/R Micropower Op Amp	14-SOIC	2.12	1.92	1.54
TS934IPT	497-8143-1-ND	Quad Out R/R Micropower Op Amp*	14-TSSOP	2.39	2.05	1.68
TS934IPT	497-8143-2-ND	Quad Out R/R Micropower Op Amp*	14-TSSOP	2305.00/2,500		
TS934IYDT	497-10264-1-ND	Quad Out R/R Micropwr Op Amp* ***NEW!***	14-SOIC	1.88	1.61	1.32
TS934IYDT	497-10264-2-ND	Quad Out R/R Micropwr Op Amp* ***NEW!***	14-SOIC	1810.00/2,500		
TS941ID	497-3054-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.73	1.56	1.26
TS941ILT	497-4078-1-ND	Output R/R Micropower Op Amp	SOT-23-5	1.95	1.68	1.37
TS941ILT	497-4078-2-ND	Output R/R Micropower Op Amp	SOT-23-5	2256.00/3,000		
TS942AID	497-4456-5-ND	Output R/R Micropower Op Amp	8-SOIC	2.02	1.83	1.47
TS942AIDT	497-4457-1-ND	Output R/R Micropower Op Amp	8-SOIC	2.24	1.93	1.58
TS942AIDT	497-4457-2-ND	Output R/R Micropower Op Amp	8-SOIC	2162.50/2,500		
TS942IDT	497-8144-1-ND	Out R/R Micropower Op Amp*	8-SOIC	2.91	2.49	2.04
TS942IDT	497-8144-2-ND	Out R/R Micropower Op Amp*	8-SOIC	2802.50/2,500		
TS942IPT	497-8145-1-ND	Out R/R Micropower Op Amp*	8-TSSOP	1.88	1.68	1.34
TS942IPT	497-8145-2-ND	Out R/R Micropower Op Amp*	8-TSSOP	2768.00/4,000		
TS944AIDT	497-8146-1-ND	Out R/R Micropower Op Amp*	14-SOIC	2.57	2.21	1.81
TS944AIDT	497-8146-2-ND	Out R/R Micropower Op Amp*	14-SOIC	2480.00/2,500		
TS944IDT	497-8147-1-ND	Out R/R Micropower Op Amp*	14-SOIC	3.06	2.76	2.25
TS944IDT	497-8147-2-ND	Out R/R Micropower Op Amp*	14-SOIC	3387.50/2,500		
TS944IPT	497-8148-1-ND	Out R/R Micropower Op Amp*	14-TSSOP	2.28	1.96	1.60
TS944IPT	497-8148-2-ND	Out R/R Micropower Op Amp*	14-TSSOP	2197.50/2,500		
TS951ID	497-3055-5-ND	In/Out, R/R Low Power Op Amp	8-SOIC	1.32	1.18	.93
TS951ILT	497-4079-1-ND	In/Out, R/R Low Power Op Amp	SOT-23-5	1.16	1.04	.83
TS951ILT	497-4079-2-ND	In/Out, R/R Low Power Op Amp	SOT-23-5	1281.00/3,000		
TS951IYLT	497-10265-1-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	SOT-23-5	1.12	1.00	.80
TS951IYLT	497-10265-2-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	SOT-23-5	1236.00/3,000		
TS952ID	497-3056-5-ND	In/Out, R/R Low Power Op Amp	8-SOIC	1.54	1.37	1.09
TS952IDT	497-2315-1-ND	In/Out, R/R Low Power Op Amp	8-SOIC	1.68	1.50	1.20
TS952IDT	497-2315-2-ND	In/Out, R/R Low Power Op Amp	8-SOIC	1542.50/2,500		
TS952IN	497-7684-5-ND	In/Out, R/R Low Power Op Amp*	8-Dip	1.54	1.37	1.09
TS952IPT	497-6434-1-ND	In/Out, R/R Low Power Op Amp*	8-TSSOP	1.68	1.50	1.20
TS952IPT	497-6434-2-ND	In/Out, R/R Low Power Op Amp*	8-TSSOP	2468.00/4,000		
TS952IYDT	497-4777-1-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	8-SOIC	1.88	1.68	1.34
TS952IYDT	497-4777-2-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	8-SOIC	1730.00/2,500		
TS952IYPT	497-10266-1-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	8-TSSOP	1.50	1.34	1.07
TS952IYPT	497-10266-2-ND	In/Out, R/R Low Power Op Amp* ***NEW!***	8-TSSOP	2208.00/4,000		
TS954ID	497-2316-5-ND	In/Out, R/R Low Power Op Amp	14-SOIC	2.28	2.06	1.66
TS954IN	497-7685-5-ND	In/Out, R/R Low Power Op Amp*	14-Dip	1.62	1.44	1.14
TS954IPT	497-8149-1-ND	In/Out, R/R Low Power Op Amp*	14-TSSOP	1.76	1.58	1.25
TS954IPT	497-8149-2-ND	In/Out, R/R Low Power Op Amp*	14-TSSOP	1617.50/2,500		
TS971ID	497-3057-5-ND	Output, R/R Low Noise Op Amp	8-SOIC	1.07	.95	.75
TS971IDT	497-6780-1-ND	Output, R/R Low Noise Op Amp*	8-SOIC	1.16	1.04	.83
TS971IDT	497-6780-2-ND	Output, R/R Low Noise Op Amp*	8-SOIC	1067.50/2,500		
TS971ILT	497-8150-1-ND	Output, R/R Low Noise Op Amp*	SOT-23-5	1.16	1.04	.83
TS971ILT	497-8150-2-ND	Output, R/R Low Noise Op Amp*	SOT-23-5	1281.00/3,000		
TS971IYLT	497-10268-1-ND	Output, R/R Low Noise Op Amp* ***NEW!***	SOT-23-5	1.00	.90	.72
TS971IYLT	497-10268-2-ND	Output, R/R Low Noise Op Amp* ***NEW!***	SOT-23-5	1104.00/3,000		
TS972ID	497-3058-5-ND	Output, R/R Low Noise Op Amp	8-SOIC	1.21	1.08	.86
TS972IDT	497-2317-1-ND	Output, R/R Low Noise Op Amp	8-SOIC	1.32	1.18	.94
TS972IDT	497-2317-2-ND	Output, R/R Low Noise Op Amp	8-SOIC	1215.00/2,500		

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS972IPT	497-8151-1-ND	Output, R/R Low Noise Op Amp*	8-TSSOP	1.24	1.11	.89
TS972IPT	497-8151-2-ND	Output, R/R Low Noise Op Amp*	8-TSSOP	1824.00/4,000		
TS972IYDT	497-10269-1-ND	Output, R/R Low Noise Op Amp* ***NEW!***	8-SOIC	1.28	1.15	.91
TS972IYDT	497-10269-2-ND	Output, R/R Low Noise Op Amp* ***NEW!***	8-SOIC	1175.00/2,500		
TS972IYPT	497-10270-1-ND	Output, R/R Low Noise Op Amp* ***NEW!***	8-TSSOP	1.28	1.15	.91
TS972IYPT	497-10270-2-ND	Output, R/R Low Noise Op Amp* ***NEW!***	8-TSSOP	1880.00/4,000		
TS974ID	497-3059-5-ND	Output, R/R Low Noise Op Amp	14-SOIC	1.40	1.24	.98
TS974IDT	497-2318-1-ND	Output, R/R Low Noise Op Amp	14-SOIC	1.52	1.36	1.08
TS974IDT	497-2318-2-ND	Output, R/R Low Noise Op Amp	14-SOIC	1397.50/2,500		
TS974IPT	497-2319-1-ND	Output, R/R Low Noise Op Amp	14-TSSOP	1.37	1.23	.98
TS974IPT	497-2319-2-ND	Output, R/R Low Noise Op Amp	14-TSSOP	1260.00/2,500		
TS974IYDT	497-10283-1-ND	Output, R/R Low Noise Op Amp* ***NEW!***	14-SOIC	1.48	1.33	1.06
TS974IYDT	497-10283-2-ND	Output, R/R Low Noise Op Amp* ***NEW!***	14-SOIC	1362.50/2,500		
TS974IYPT	497-10271-1-ND	Output, R/R Low Noise Op Amp* ***NEW!***	14-TSSOP	1.48	1.33	1.06
TS974IYPT	497-10271-2-ND	Output, R/R Low Noise Op Amp* ***NEW!***	14-TSSOP	1362.50/2,500		
TS982IYDWT	497-10272-1-ND	Dual Bipolar Op Amp* ***NEW!***	8-SOIC	2.30	1.98	1.61
TS982IYDWT	497-10272-2-ND	Dual Bipolar Op Amp* ***NEW!***	8-SOIC	2217.50/2,500		
TS1851AIDT	497-4530-1-ND	1.8V, In/Out, R/R, Low Power Op Amp	8-SOIC	2.06	1.77	1.45
TS1851AIDT	497-4530-2-ND	1.8V, In/Out, R/R, Low Power Op Amp	8-SOIC	1985.00/2,500		
TS1851AILT	497-4531-1-ND	1.8V, In/Out, R/R, Low Power Op Amp	SOT-23-5	2.06	1.77	1.45
TS1851AILT	497-4531-2-ND	1.8V, In/Out, R/R, Low Power Op Amp	SOT-23-5	2382.00/3,000		
TS1851ID	497-2231-5-ND	1.8V, In/Out, R/R, Low Power Op Amp	8-SOIC	1.79	1.62	1.31
TS1851IDT	497-2231-1-ND	1.8V, In/Out, R/R, Low Power Op Amp	8-SOIC	2.02	1.74	1.42
TS1851IDT	497-2231-2-ND	1.8V, In/Out, R/R, Low Power Op Amp	8-SOIC	1950.00/2,500		
TS1851ILT	497-5429-1-ND	1.8V, In/Out, R/R, Low Power Op Amp*	SOT-23-5	2.02	1.74	1.42
TS1851ILT	497-5429-2-ND	1.8V, In/Out, R/R, Low Power Op Amp*	SOT-23-5	2340.00/3,000		
TS1852AIDT	497-4533-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.79	2.40	1.96
TS1852AIDT	497-4533-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2692.50/2,500		
TS1852AIPT	497-8070-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	2.79	2.40	1.96
TS1852AIPT	497-8070-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	4308.00/4,000		
TS1852AIST	497-4443-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.79	2.40	1.96
TS1852AIST	497-4443-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	4308.00/4,000		
TS1852ID	497-2232-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.08	1.89	1.52
TS1852IDT	497-2232-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.35	2.02	1.65
TS1852IDT	497-2232-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2267.50/2,500		
TS1852IPT	497-8071-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	2.35	2.02	1.65
TS1852IPT	497-8071-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	3628.00/4,000		
TS1854AIDT	497-4535-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3.31	2.84	2.32
TS1854AIDT	497-4535-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3190.00/2,500		
TS1854ID	497-2234-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.93	2.65	2.13
TS1854IDT	497-2234-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3.31	2.84	2.32
TS1854IDT	497-2234-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3190.00/2,500		
TS1854IPT	497-5430-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp*	14-TSSOP	3.31	2.84	2.32
TS1854IPT	497-5430-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp*	14-TSSOP	3190.00/2,500		
TS1871AIDT	497-4537-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	3.31	2.84	2.32
TS1871AIDT	497-4537-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	3190.00/2,500		
TS1871AILT	497-4538-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	3.31	2.84	2.32
TS1871AILT	497-4538-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	3828.00/3,000		
TS1871AIYLT	497-10234-1-ND	1.8V, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	1.84	1.65	1.31
TS1871AIYLT	497-10234-2-ND	1.8V, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	2028.00/3,000		
TS1871ID	497-2236-5-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.41	2.18	1.75
TS1871IDT	497-4539-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.72	2.34	1.91
TS1871IDT	497-4539-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2622.50/2,500		
TS1871ILT	497-2237-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2.72	2.34	1.91
TS1871ILT	497-2237-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	3147.00/3,000		
TS1871IYLT	497-10235-1-ND	1.8V, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	1.64	1.47	1.17
TS1871IYLT	497-10235-2-ND	1.8V, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	1809.00/3,000		
TS1872AIDT	497-4540-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.94	2.52	2.06
TS1872AIDT	497-4540-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2835.00/2,500		
TS1872AIYDT	497-10236-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	1.91	1.64	1.34
TS1872AIYDT	497-10236-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp* ***NEW!***	SOT-23-5	1842.50/2,500		
TS1872ID	497-2238-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.41	2.18	1.75
TS1872IDT	497-2238-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.91	2.49	2.04
TS1872IDT	497-2238-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2802.50/2,500		
TS1872IN	497-2239-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Dip	2.00	1.81	1.46
TS1872IPT	497-8072-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	2.91	2.49	2.04
TS1872IPT	497-8072-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-TSSOP	4484.00/4,000		
TS1872IST	497-8073-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-MSOP	2.91	2.49	2.04
TS1872IST	497-8073-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp*	8-MSOP	4484.00/4,000		
TS1872IYDT	497-10237-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp* ***NEW!***	8-SOIC	1.88	1.68	1.34
TS1872IYDT	497-10237-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp* ***NEW!***	8-SOIC	1730.00/2,500		
TS1874AIDT	497-4542-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	4.10	3.69	3.01
TS1874AIDT	497-4542-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	4537.50/2,500		
TS1874AIYDT	497-10238-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-SOIC	2.13	1.83	1.50
TS1874AIYDT	497-10238-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-SOIC	2055.00/2,500		
TS1874AIYPT	497-10239-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-TSSOP	2.13	1.83	1.50
TS1874AIYPT	497-10239-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-TSSOP	2055.00/2,500		
TS1874ID	497-2240-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.88	2.58	2.11
TS1874IDT	497-2240-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3.09	2.78	2.27
TS1874IDT	497-2240-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3422.50/2,500		
TS1874IPT	497-8074-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp*	14-TSSOP	3.09	2.78	2.27
TS1874IPT	497-8074-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp*	14-TSSOP	3422.50/2,500		
TS1874IYDT	497-10240-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-SOIC	1.76	1.58	1.25
TS1874IYDT	497-10240-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-SOIC	1617.50/2,500		
TS1874IYPT	497-10241-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-TSSOP	1.76	1.58	1.25
TS1874IYPT	497-10241-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp* ***NEW!***	14-TSSOP	1617.50/2,500		
TS3021ICT	497-5324-1-ND	1.8V, R/R HS Comparator*	SC70-5	2.39	2.05	1.68
TS3021ICT	497-5324-2-ND	1.8V, R/R HS Comparator*	SC70-5	2766.00/3,000		
TS3021ILT	497-8092-1-ND	1.8V, R/R HS Comparator*	SOT-23-5	1.90	1.64	1.34
TS3021ILT	497-8092-2-ND	1.8V, R/R HS Comparator*	SOT-23-5	2202.00/3,000		
TS3022IDT	497-5770-1-ND	1.8V, R/R HS Comparator*	8-SOIC	3.31	2.84	2.32
TS3022IDT	497-5770-2-ND	1.8V, R/R HS Comparator*	8-SOIC	3190.00/2,500		
TS3022IST	497-6103-1-ND	1.8V, R/R HS Comparator*	8-MSOP	2.41	2.07	1.69
TS3022IST	497-6103-2-ND	1.8V, R/R HS Comparator*	8-MSOP	3720.00/4,000		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS3702CDT	497-6611-1-ND	Micropower Dual CMOS Voltage Comparator*	8-SOIC	1.16	1.04	.83
TS3702CDT	497-6611-2-ND	Micropower Dual CMOS Voltage Comparator*	8-SOIC	1067.50/2,500		
TS3702ID	497-3038-5-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.36	1.21	.96
TS3702IDT	497-2267-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.12	1.00	.80
TS3702IDT	497-2267-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1030.00/2,500		
TS3702IN	497-2268-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.06	.94	.75
TS3704CDT	497-4063-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.96	.83	.66
TS3704CDT	497-4063-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	790.00/2,500		
TS3704IDT	497-2269-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	1.56	1.40	1.11
TS3704IDT	497-2269-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	1435.00/2,500		
TS3704IN	497-2270-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.10	.98	.78
TS3704IPT	497-4064-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.56	1.40	1.11
TS3704IPT	497-4064-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1435.00/2,500		
TS7211AILT	497-3046-1-ND	BiCMOS R/R Micropower Comparator	SOT-23-5	1.44	1.29	1.03
TS7221AILT	497-3047-1-ND	Single BiCMOS R/R Micropower Comparator	SOT-23-5	1.44	1.29	1.03
TS7221AILT	497-3047-2-ND	Single BiCMOS R/R Micropower Comparator	SOT-23-5	1587.00/3,000		
TS7221BILT	497-8122-1-ND	Single BiCMOS R/R Micropower Comparator*	SOT-23-5	1.60	1.43	1.14
TS7221BILT	497-8122-2-ND	Single BiCMOS R/R Micropower Comparator*	SOT-23-5	1764.00/3,000		
TS9222IPT	497-10353-1-ND	Dual R/R I/O Op Amp* ***NEW!***	8-TSSOP	1.52	1.36	1.08
TS9222IPT	497-10353-2-ND	Dual R/R I/O Op Amp* ***NEW!***	8-TSSOP	2236.00/4,000		
TS9224IPT	497-10156-1-ND	Quad R/R I/O Op Amp* ***NEW!***	14-TSSOP	2.35	2.02	1.65
TS9224IPT	497-10156-2-ND	Quad R/R I/O Op Amp* ***NEW!***	14-TSSOP	2267.50/2,500		
TS9511ILT	497-10352-1-ND	Single Precison R/R I/O Op Amp* ***NEW!***	SOT23-5	1.32	1.18	.94
TS9511ILT	497-10352-2-ND	Single Precison R/R I/O Op Amp* ***NEW!***	SOT23-5	1458.00/3,000		
TSC101AILT	497-6945-1-ND	High Side Current Sense Amp*	SOT-23-5	2.94	2.52	2.06
TSC101AILT	497-6945-2-ND	High Side Current Sense Amp*	SOT-23-5	3402.00/3,000		
TSC101AIYLT	497-10273-1-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3.13	2.68	2.19
TSC101AIYLT	497-10273-2-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3618.00/3,000		
TSC101BILT	497-6946-1-ND	High Side Current Sense Amp*	SOT-23-5	2.94	2.52	2.06
TSC101BILT	497-6946-2-ND	High Side Current Sense Amp*	SOT-23-5	3402.00/3,000		
TSC101BIYLT	497-10274-1-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3.13	2.68	2.19
TSC101BIYLT	497-10274-2-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3618.00/3,000		
TSC101CILT	497-6947-1-ND	High Side Current Sense Amp*	SOT-23-5	2.94	2.52	2.06
TSC101CILT	497-6947-2-ND	High Side Current Sense Amp*	SOT-23-5	3402.00/3,000		
TSC101CIYLT	497-10275-1-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3.13	2.68	2.19
TSC101CIYLT	497-10275-2-ND	High Side Current Sense Amp* ***NEW!***	SOT-23-5	3618.00/3,000		
TSC888AILT	497-8269-1-ND	High Side Current Sense Amp*	SOT-23-5	1.56	1.40	1.11
TSC888AILT	497-8269-2-ND	High Side Current Sense Amp*	SOT-23-5	1722.00/3,000		
TSC888BILT	497-8270-1-ND	High Side Current Sense Amp*	SOT-23-5	1.56	1.40	1.11
TSC888BILT	497-8270-2-ND	High Side Current Sense Amp*	SOT-23-5	1722.00/3,000		
TSC888CILT	497-8271-1-ND	High Side Current Sense Amp*	SOT-23-5	1.56	1.40	1.11
TSC888CILT	497-8271-2-ND	High Side Current Sense Amp*	SOT-23-5	1722.00/3,000		
TSH22IDT	497-2320-1-ND	Dual Bipolar Op Amp	8-SOIC	1.32	1.18	.94
TSH22IDT	497-2320-2-ND	Dual Bipolar Op Amp	8-SOIC	1215.00/2,500		
TSH22IN	497-7686-5-ND	Dual Bipolar Op Amp*	8-Dip	1.79	1.62	1.31
TSH24IDT	497-2321-1-ND	Quad Bipolar Op Amp	14-SOIC	1.44	1.29	1.03
TSH24IDT	497-2321-2-ND	Quad Bipolar Op Amp	14-SOIC	1322.50/2,500		
TSH62CDT	497-6124-1-ND	Wideband, LP Dual Op Amp*	8-SOIC	1.68	1.50	1.20
TSH62CDT	497-6124-2-ND	Wideband, LP Dual Op Amp*	8-SOIC	1542.50/2,500		
TSH70CD	497-3070-5-ND	Wideband, Low Power Op Amp	8-SOIC	1.63	1.47	1.19
TSH70CLT	497-8154-1-ND	Wideband, Low Power Op Amp*	SOT-23-5	1.84	1.58	1.29
TSH70CLT	497-8154-2-ND	Wideband, Low Power Op Amp*	SOT-23-5	2127.00/3,000		
TSH72CD	497-2324-5-ND	Wideband, Low Power Dual Op Amp	8-SOIC	1.89	1.71	1.38
TSH72CPT	497-4080-1-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	2.13	1.83	1.50
TSH72CPT	497-4080-2-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	3288.00/4,000		
TSH73CDT	497-8155-1-ND	R/R Wideband Low Power Op Amp*	14-SOIC	1.80	1.61	1.28
TSH73CDT	497-8155-2-ND	R/R Wideband Low Power Op Amp*	14-SOIC	1655.00/2,500		
TSH73CPT	497-8156-1-ND	R/R Wideband Low Power Op Amp*	14-TSSOP	1.80	1.61	1.28
TSH73CPT	497-8156-2-ND	R/R Wideband Low Power Op Amp*	14-TSSOP	1655.00/2,500		
TSH74CD	497-2325-5-ND	Wideband, Low Power Op Amp	14-SOIC	3.82	3.42	2.80
TSH74CPT	497-8157-1-ND	Wideband, Low Power Op Amp*	14-TSSOP	2.94	2.52	2.06
TSH74CPT	497-8157-2-ND	Wideband, Low Power Op Amp*	14-TSSOP	2835.00/2,500		
TSH75CPT	497-8158-1-ND	Wideband, Low Power Op Amp*	16-TSSOP	2.76	2.37	1.94
TSH75CPT	497-8158-2-ND	Wideband, Low Power Op Amp*	16-TSSOP	2660.00/2,500		
TSH80ID	497-2326-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.14	1.01	.80
TSH80IDT	497-6043-1-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1.60	1.43	1.14
TSH80IDT	497-6043-2-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1470.00/2,500		
TSH80ILT	497-8159-1-ND	Wideband, Rail-to-Rail Op Amp*	SOT-23-5	1.60	1.43	1.14
TSH80ILT	497-8159-2-ND	Wideband, Rail-to-Rail Op Amp*	SOT-23-5	1764.00/3,000		
TSH81ID	497-2327-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.47	1.31	1.03
TSH82ID	497-2328-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.76	1.59	1.28
TSH82IDT	497-6781-1-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1.98	1.71	1.39
TSH82IDT	497-6781-2-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1912.50/2,500		
TSH94ID	497-3072-5-ND	High Speed, Low Power Quad Op Amp	16-SOIC	2.98	2.66	2.18
TSH103IDT	497-6948-1-ND	Triple Video Buffer/Filter*	8-SOIC	1.37	1.23	.98
TSH103IDT	497-6948-2-ND	Triple Video Buffer/Filter*	8-SOIC	1260.00/2,500		
TSH110ILT	497-4459-1-ND	Wideband, Low Noise Op Amp	SOT-23-5	1.98	1.71	1.39
TSH110ILT	497-4459-2-ND	Wideband, Low Noise Op Amp	SOT-23-5	2295.00/3,000		
TSH111ID	497-3061-5-ND	Current Feedback Op Amp	8-SOIC	1.76	1.59	1.28
TSH112ID	497-3062-5-ND	Dual, Current Feedback Op Amp	8-SOIC	2.05	1.86	1.49
TSH113ID	497-3063-5-ND	Triple, Current Feedback Op Amp	14-SOIC	3.38	3.02	2.48
TSH114IDT	497-10390-1-ND	Wide Band Low Noise Op Amp* ***NEW!***	14-SOIC	3.72	3.35	2.73
TSH114IDT	497-10390-2-ND	Wide Band Low Noise Op Amp* ***NEW!***	14-SOIC	4120.00/2,500		
TSH120ICT	497-6949-1-ND	2.2V to 5V Video Buffer with SAG Correction*	SC70-6	1.18	1.06	.84
TSH122ICT	497-8332-1-ND	Ultra LP Video Buffer/Filter*	SC70	1.84	1.58	1.29
TSH122ICT	497-8332-2-ND	Ultra LP Video Buffer/Filter*	SC70	2127.00/3,000		
TSH173IDT	497-6033-1-ND	Triple Video Buffer*	8-SOIC	1.84	1.65	1.31
TSH173IDT	497-6033-2-ND	Triple Video Buffer*	8-SOIC	1690.00/2,500		
TSH300IDT	497-4776-1-ND	Ultra Low Noise HS Op Amp	8-SOIC	4.22	2.90	2.33

* *RoHS Compliant*

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(Continued)

STMicroelectronics DigiReel® (Cont.) AMPLIFIERS AND LINEAR

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TSH300IDT	497-4776-2-ND	Ultra Low Noise HS Op Amp	8-SOIC	5585.00/2,500		
TSH300ILT	497-8171-1-ND	Ultra Low Noise HS Op Amp*	SOT-23-5	7.12	6.41	5.23
TSH300ILT	497-8171-2-ND	Ultra Low Noise HS Op Amp*	SOT-23-5	9468.00/3,000		
TSH310ILT	497-4463-1-ND	400µA High Speed Op Amp	SOT-23-5	3.38	2.90	2.37
TSH310ILT	497-4463-2-ND	400µA High Speed Op Amp	SOT-23-5	3912.00/3,000		
TSH330IDT	497-4464-1-ND	1.1GHz Low Noise Op Amp	8-SOIC	3.31	2.98	2.43
TSH330IDT	497-4464-2-ND	1.1GHz Low Noise Op Amp	8-SOIC	3667.50/2,500		
TSH340IDT	497-4679-1-ND	320MHz Single Supply Video Buffer	8-SOIC	8.35	7.56	6.30
TSH340IDT	497-4679-2-ND	320MHz Single Supply Video Buffer	8-SOIC	10237.50/2,500		
TSH340ILT	497-8172-1-ND	320MHz Single Supply Video Buffer*	SOT-23-5	6.68	6.05	5.04
TSH340ILT	497-8172-2-ND	320MHz Single Supply Video Buffer*	SOT-23-5	9828.00/3,000		
TSH341ILT	497-8173-1-ND	300MHz Single Supply Video Amp*	SOT-23-5	6.68	6.05	5.04
TSH341ILT	497-8173-2-ND	300MHz Single Supply Video Amp*	SOT-23-5	9828.00/3,000		
TSH343IDT	497-4987-1-ND	280MHz Single Supply Triple Video Buffer	8-SOIC	2.96	2.54	2.08
TSH343IDT	497-4987-2-ND	280MHz Single Supply Triple Video Buffer	8-SOIC	2855.00/2,500		
TSH344IDT	497-4988-1-ND	340MHz Single Supply Triple Video Buffer	8-SOIC	2.96	2.54	2.08
TSH344IDT	497-4988-2-ND	340MHz Single Supply Triple Video Buffer	8-SOIC	2855.00/2,500		
TSH345IDT	497-8530-1-ND	36MHz Single Supply Triple Video Buffer*	14-SOIC	1.68	1.50	1.20
TSH345IDT	497-8530-2-ND	36MHz Single Supply Triple Video Buffer*	14-SOIC	1542.50/2,500		
TSH350IDT	497-4465-1-ND	550MHz LN Current Feedback Amp	8-SOIC	3.45	2.97	2.42
TSH350IDT	497-4465-2-ND	550MHz LN Current Feedback Amp	8-SOIC	3330.00/2,500		
TSH350ILT	497-4466-1-ND	550MHz LN Current Feedback Amp	SOT-23-5	3.45	2.97	2.42
TSH350ILT	497-4466-2-ND	550MHz LN Current Feedback Amp	SOT-23-5	3996.00/3,000		
TSV321RAILT	497-7687-1-ND	In/Out, R/R, Low Power Op Amp*	SOT-23-5	.96	.83	.66
TSV321RAILT	497-7687-2-ND	In/Out, R/R, Low Power Op Amp*	SOT-23-5	948.00/3,000		
TSV321RILT	497-8164-1-ND	In/Out, R/R, Low Power Op Amp*	SOT-23-5	.93	.81	.64
TSV321RILT	497-8164-2-ND	In/Out, R/R, Low Power Op Amp*	SOT-23-5	921.00/3,000		
TSV321RIYLT	497-10277-1-ND	In/Out, R/R, Low Power Op Amp* ***NEW!***	SOT-23-5	.79	.68	.54
TSV321RIYLT	497-10277-2-ND	In/Out, R/R, Low Power Op Amp* ***NEW!***	SOT-23-5	780.00/3,000		
TSV324IDT	497-8198-1-ND	GP, In/Out, R/R, Low Power Op Amp*	14-SOIC	.96	.86	.69
TSV324IDT	497-8198-2-ND	GP, In/Out, R/R, Low Power Op Amp*	14-SOIC	882.50/2,500		
TSV324IPT	497-5201-1-ND	GP, In/Out, R/R, Low Power Op Amp*	14-TSSOP	.96	.83	.66
TSV324IPT	497-5201-2-ND	GP, In/Out, R/R, Low Power Op Amp*	14-TSSOP	790.00/2,500		
TSV324IYDT	497-10278-1-ND	GP, In/Out, R/R, Low Power Op Amp* ***NEW!***	14-SOIC	.97	.84	.67
TSV324IYDT	497-10278-2-ND	GP, In/Out, R/R, Low Power Op Amp* ***NEW!***	14-SOIC	800.00/2,500		
TSV324IYPT	497-10279-1-ND	GP, In/Out, R/R, Low Power Op Amp* ***NEW!***	14-TSSOP	.97	.84	.67
TSV324IYPT	497-10279-2-ND	GP, In/Out, R/R, Low Power Op Amp* ***NEW!***	14-TSSOP	800.00/2,500		
TSV358AIDT	497-5827-1-ND	GP, In/Out, R/R, Low Power Op Amp*	8-SOIC	1.47	1.32	1.05
TSV358AIDT	497-5827-2-ND	GP, In/Out, R/R, Low Power Op Amp*	8-SOIC	1357.50/2,500		
TSV358IDT	497-4772-1-ND	GP, In/Out, R/R, Low Power Op Amp	8-SOIC	.96	.83	.66
TSV358IDT	497-4772-2-ND	GP, In/Out, R/R, Low Power Op Amp	8-SOIC	790.00/2,500		
TSV358IPT	497-4771-1-ND	GP, In/Out, R/R, Low Power Op Amp	8-TSSOP	.99	.59	.40
TSV358IYDT	497-10182-1-ND	GP, In/Out, R/R, Low Power Op Amp ***NEW!***	8-SOIC	.74	.64	.51
TSV358IYDT	497-10182-2-ND	GP, In/Out, R/R, Low Power Op Amp ***NEW!***	8-SOIC	610.00/2,500		
TSV358IYPT	497-10280-1-ND	GP, In/Out, R/R, Low Power Op Amp ***NEW!***	8-TSSOP	.74	.64	.51
TSV358IYPT	497-10280-2-ND	GP, In/Out, R/R, Low Power Op Amp ***NEW!***	8-TSSOP	976.00/4,000		
TSV611ICT	497-10351-1-ND	Single, I/O, R/R, 120kHz Op Amp* ***NEW!***	SC70-5	1.02	.88	.70
TSV611ICT	497-10351-2-ND	Single, I/O, R/R, 120kHz Op Amp* ***NEW!***	SC70-5	1005.00/3,000		
TSV611ILT	497-10350-1-ND	Single, I/O, R/R, 120kHz Op Amp* ***NEW!***	SOT23-5	.92	.80	.63
TSV611ILT	497-10350-2-ND	Single, I/O, R/R, 120kHz Op Amp* ***NEW!***	SOT23-5	915.00/3,000		
TSV612IDT	497-10349-1-ND	Dual, I/O, R/R, 120kHz Op Amp* ***NEW!***	8-SOIC	1.28	1.15	.91
TSV612IDT	497-10349-2-ND	Dual, I/O, R/R, 120kHz Op Amp* ***NEW!***	8-SOIC	1175.00/2,500		
TSV612IST	497-10348-1-ND	Dual, I/O, R/R, 120kHz Op Amp* ***NEW!***	8-MSOP	1.40	1.26	1.00
TSV612IST	497-10348-2-ND	Dual, I/O, R/R, 120kHz Op Amp* ***NEW!***	8-MSOP	2060.00/4,000		
TSV620AICT	497-10157-1-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SC70-6	1.40	1.26	1.00
TSV620AICT	497-10157-2-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SC70-6	1545.00/3,000		
TSV620AILT	497-10158-1-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT23-6	1.40	1.26	1.00
TSV620AILT	497-10158-2-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT23-6	1545.00/3,000		
TSV620ICT	497-10159-1-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SC70-6	1.04	.93	.74
TSV620ICT	497-10159-2-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SC70-6	1146.00/3,000		
TSV620ILT	497-10160-1-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT23-6	1.04	.93	.74
TSV620ILT	497-10160-2-ND	Single, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT23-6	1146.00/3,000		
TSV621AICT	497-8533-1-ND	Single, I/O, R/R, 420kHz Op Amp*	SC70-5	1.40	1.26	1.00
TSV621AICT	497-8533-2-ND	Single, I/O, R/R, 420kHz Op Amp*	SC70-5	1545.00/3,000		
TSV621AILT	497-8534-1-ND	Single, I/O, R/R, 420kHz Op Amp*	SOT-23-5	1.40	1.26	1.00
TSV621AILT	497-8534-2-ND	Single, I/O, R/R, 420kHz Op Amp*	SOT-23-5	1545.00/3,000		
TSV621ICT	497-8535-1-ND	Single, I/O, R/R, 420kHz Op Amp*	SC70-5	.96	.86	.69
TSV621ICT	497-8535-2-ND	Single, I/O, R/R, 420kHz Op Amp*	SC70-5	1059.00/3,000		
TSV621ILT	497-8536-1-ND	Single, I/O, R/R, 420kHz Op Amp*	SOT-23-5	.96	.86	.69
TSV621ILT	497-8536-2-ND	Single, I/O, R/R, 420kHz Op Amp*	SOT-23-5	1059.00/3,000		
TSV622ILT	497-10059-1-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1.24	1.11	.89
TSV622ILT	497-10059-2-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1368.00/3,000		
TSV625AIPT	497-10161-1-ND	Quad, I/O, R/R, 420kHz Op Amp* ***NEW!***	16-TSSOP	2.54	2.18	1.78
TSV625AIPT	497-10161-2-ND	Quad, I/O, R/R, 420kHz Op Amp* ***NEW!***	16-TSSOP	2447.50/2,500		
TSV625IPT	497-10162-1-ND	Quad, I/O, R/R, 420kHz Op Amp* ***NEW!***	16-TSSOP	1.80	1.55	1.27
TSV625IPT	497-10162-2-ND	Quad, I/O, R/R, 420kHz Op Amp* ***NEW!***	16-TSSOP	1737.50/2,500		
TSV630AICT	497-8537-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-6	1.40	1.26	1.00
TSV630AICT	497-8537-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SC70-6	1545.00/3,000		
TSV630AILT	497-8538-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-6	1.20	1.08	.86
TSV630AILT	497-8538-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-6	1323.00/3,000		
TSV631ILT	497-8544-1-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-5	.96	.86	.69
TSV631ILT	497-8544-2-ND	Single, I/O, R/R, 880kHz Op Amp*	SOT-23-5	1059.00/3,000		
TSV632AILT	497-10060-1-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1.68	1.50	1.20
TSV632AILT	497-10060-2-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1851.00/3,000		
TSV632ILT	497-10061-1-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1.24	1.11	.89
TSV632ILT	497-10061-2-ND	Dual, I/O, R/R, 420kHz Op Amp* ***NEW!***	SOT-23-8	1368.00/3,000		
TSV911AIDT	497-5828-1-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	2.06	1.82	1.54
TSV911AIDT	497-5828-2-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1950.00/2,500		
TSV911AILT	497-5998-1-ND	Single, I/O, R/R, 8MHz Op Amp*	SOT-23-5	1.88	1.69	1.34
TSV911IDT	497-5999-1-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1.60	1.36	1.16
TSV911IDT	497-5999-2-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1470.00/2,500		
TSV911ILT	497-6000-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1.60	1.43	1.14
TSV911ILT	497-6000-2-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1764.00/3,000		
TSV912AIDT	497-5829-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	2.32	1.99	1.63
TSV912AIDT	497-5829-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	2235.00/2,500		
TSV912AIST	497-5830-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	2.36	2.08	1.77
TSV912AIST	497-5830-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	3576.00/4,000		
TSV912IDT	497-8165-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	2.11	1.82	1.48
TSV912IDT	497-8165-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	2037.50/2,500		
TSV912IST	497-5771-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	2.57	2.21	1.81
TSV912IST	497-5771-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	3968.00/4,000		
TSV912IYST	497-10385-1-ND	Dual, I/O, R/R, 8MHz Op Amp* ***NEW!***	8-MSOP	1.32	1.18	.94
TSV912IYST	497-10385-2-ND	Dual, I/O, R/R, 8MHz Op Amp* ***NEW!***	8-MSOP	1944.00/4,000		
TSV914AIDT	497-6127-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	2.15	1.85	1.51
TSV914AIDT	497-6127-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	2075.00/2,500		
TSV914AIPT	497-5831-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2.76	2.37	1.94
TSV914AIPT	497-5831-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2660.00/2,500		
TSV914AIYDT	497-10384-1-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-SOIC	1.80	1.55	1.27
TSV914AIYDT	497-10384-2-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-SOIC	1737.50/2,500		
TSV914AIYPT	497-10383-1-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-TSSOP	1.80	1.55	1.27
TSV914AIYPT	497-10383-2-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-TSSOP	1737.50/2,500		
TSV914IDT	497-6128-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	2.13	1.83	1.50
TSV914IDT	497-6128-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	2055.00/2,500		
TSV914IPT	497-5832-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2.54	2.18	1.78
TSV914IPT	497-5832-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2447.50/2,500		
TSV914IYPT	497-10382-1-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-TSSOP	1.80	1.61	1.28
TSV914IYPT	497-10382-2-ND	Quad, I/O, R/R, 8MHz Op Amp* ***NEW!***	14-TSSOP	1655.00/2,500		
TSV991AILT	497-5833-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2.06	1.82	1.54
TSV991AILT	497-5833-2-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2340.00/3,000		
TSV991ILT	497-6001-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1.60	1.36	1.16
TSV991IYDT	497-10347-1-ND	Single, I/O, R/R, 20MHz Op Amp* ***NEW!***	8-SOIC	1.06	.92	.73
TSV991IYDT	497-10347-2-ND	Single, I/O, R/R, 20MHz Op Amp* ***NEW!***	8-SOIC	877.50/2,500		
TSV991IYLT	497-10281-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	.99	.86	.68
TSV991IYLT	497-10281-2-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	984.00/3,000		
TSV992AIDT	497-5834-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2.32	1.99	1.63
TSV992AIDT	497-5834-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2235.00/2,500		
TSV992AIST	497-5835-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	2.36	2.08	1.77
TSV992AIST	497-5835-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	3576.00/4,000		
TSV992IDT	497-6002-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2.33	2.05	1.74
TSV992IDT	497-6002-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2197.50/2,500		
TSV992IST	497-5836-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	2.13	1.83	1.50
TSV992IST	497-5836-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	3288.00/4,000		
TSV992IYDT	497-10359-1-ND	Dual, I/O, R/R, 20MHz Op Amp* ***NEW!***	8-SOIC	1.00	.90	.72
TSV992IYDT	497-10359-2-ND	Dual, I/O, R/R, 20MHz Op Amp* ***NEW!***	8-SOIC	920.00/2,500		
TSV994AIDT	497-6125-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2.50	2.15	1.75
TSV994AIDT	497-6125-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2410.00/2,500		
TSV994AIPT	497-5837-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-TSSOP	3.11	2.74	2.33
TSV994IDT	497-6126-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2.32	1.99	1.63
TSV994IDT	497-6126-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2235.00/2,500		
TSV994IPT	497-6003-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2.81	2.48	2.10
TSV994IYDT	497-10358-1-ND	Quad, I/O, R/R, 20MHz Op Amp* ***NEW!***	14-SOIC	1.64	1.47	1.17
TSV994IYDT	497-10358-2-ND	Quad, I/O, R/R, 20MHz Op Amp* ***NEW!***	14-SOIC	1507.50/2,500		
TSV994IYPT	497-10357-1-ND	Quad, I/O, R/R, 20MHz Op Amp* ***NEW!***	14-TSSOP	1.64	1.47	1.17
TSV994IYPT	497-10357-2-ND	Quad, I/O, R/R, 20MHz Op Amp* ***NEW!***	14-TSSOP	1507.50/2,500		
UA741CDT	497-3075-1-ND	Single Op Amp	8-SOIC	.70	.60	.48
UA741CN	497-6784-5-ND	Single Op Amp*	8-Dip	.63	.56	.43
UA741IDT	497-2337-1-ND	Single Op Amp	8-SOIC	.92	.80	.63
UA741IDT	497-2337-2-ND	Single Op Amp	8-SOIC	762.50/2,500		
UA741IN	497-7689-5-ND	Single Op Amp*	8-Dip	.84	.74	.57
UA748CN	497-4083-5-ND	Precision Single Op Amp	8-Dip	.89	.80	.63
UA748ID	497-4084-5-ND	Precision Single Op Amp	8-SOIC	1.66	1.47	1.16
UA748IN	497-7690-5-ND	Precision Single Op Amp*	8-Dip	1.66	1.47	1.16

STMicroelectronics DigiReel® ANALOG AND MIXED SIGNAL ICs

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
E-L6220	497-1428-5-ND	Quad Darlington Switch	16-Power Dip	2.83	2.53	2.08
L295	497-1391-5-ND	Dual Switch-Mode Solenoid Driver	15-Multiwatt	8.94	8.05	6.62
L604C	497-6702-5-ND	Darlington Array*	18-Dip	2.42	2.19	1.76
L6370D013TR	497-4011-1-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-PowerSO	12.52	11.34	9.45
L6370D013TR	497-4011-2-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-PowerSO	4394.40/600		
L6374FP013TR	497-4012-1-ND	Industrial Quad Line Driver	20-SOIC	11.96	10.84	9.03
L6374FP013TR	497-4012-2-ND	Industrial Quad Line Driver	20-SOIC	6095.00/1,000		
L6375STR	497-6865-1-ND	0.5A High-Side Driver Industrial Intelligent Power Switch*	8-SOIC	4.22	3.80	3.10
L6375STR	497-6865-2-ND	0.5A High-Side Driver Industrial Intelligent Power Switch*	8-SOIC	4677.50/2,500		
L6376D013TR	497-3365-1-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-PowerSO	12.44	11.36	9.74
L6376D013TR	497-3365-2-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-PowerSO	4705.20/600		
L6377D	497-1434-5-ND	0.5A High-Side Driver Intelligent Power Switch	14-SOIC	5.06	4.52	3.71
L6377D013TR	497-5355-1-ND	0.5A High-Side Driver Intelligent Power Switch*	14-SOIC	6.02	5.34	4.13
L6384D013TR	497-4014-1-ND	High Voltage Half Bridge Driver	8-SOIC	4.50	4.05	3.30
L6384D013TR	497-4014-2-ND	High Voltage Half Bridge Driver	8-SOIC	4987.50/2,500		
L6384E	497-6211-5-ND	High Voltage Half Bridge Driver*	8-Dip	2.44	2.21	1.78
L6384ED013TR	497-6212-1-ND	High Voltage Half Bridge Driver*	8-SOIC	2.76	2.37	1.94
L6384ED013TR	497-6212-2-ND	High Voltage Half Bridge Driver*	8-SOIC	2660.00/2,500		
L6385E	497-6213-5-ND	High Voltage High/Low Side Driver*	8-Dip	2.44	2.21	1.78
L6385ED013TR	497-6214-1-ND	High Voltage High/Low Side Driver*	8-SOIC	2.76	2.37	1.94
L6385ED013TR	497-6214-2-ND	High Voltage High/Low Side Driver*	8-SOIC	2660.00/2,500		
L6386ADTR	497-8320-1-ND	High Voltage High/Low Side Driver*	14-SOIC	3.05	2.62	2.14
L6386ADTR	497-8320-2-ND	High Voltage High/Low Side Driver*	14-SOIC	2942.50/2,500		
L6386E	497-6215-5-ND	High Voltage High/Low Side Driver*	14-Dip	2.77	2.50	2.01
L6386ED013TR	497-6216-1-ND	High Voltage High/Low Side Driver*	14-SOIC	3.13	2.68	2.19
L6386ED013TR	497-6216-2-ND	High Voltage High/Low Side Driver*	14-SOIC	3015.00/2,500		
L6387	497-5782-ND	High Voltage High/Low Side Driver*	8-MiniDip	3.44	3.07	2.52
L6387DTR	497-4015-1-ND	High Voltage High/Low Side Driver	8-SOIC	3.96	2.71	2.18
L6387DTR	497-4015-2-ND	High Voltage High/Low Side Driver	8-SOIC	2532.50/2,500		

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(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L6387E	497-6217-5-ND	High Voltage High/Low Side Driver*	8-Dip	2.44	2.21	1.78
L6387ED013TR	497-6218-1-ND	High Voltage High/Low Side Driver*	8-SOIC	2.76	2.37	1.94
L6387ED013TR	497-6218-2-ND	High Voltage High/Low Side Driver*	8-SOIC	2660.00/2,500		
L6388	497-5358-5-ND	High Voltage High/Low Side Driver*	8-MiniDip	2.63	2.36	1.93
L6388E	497-6219-5-ND	High Voltage High/Low Side Driver*	8-Dip	2.57	2.33	1.87
L6388ED013TR	497-6220-1-ND	High Voltage High/Low Side Driver*	8-SOIC	2.91	2.49	2.04
L6388ED013TR	497-6220-2-ND	High Voltage High/Low Side Driver*	8-SOIC	2802.50/2,500		
L6390DTR	497-8321-1-ND	High Voltage High/Low Side Driver*	16-SOIC	3.47	3.12	2.55
L6390DTR	497-8321-2-ND	High Voltage High/Low Side Driver*	16-SOIC	3840.00/2,500		
L6392DTR	497-8322-1-ND	High Voltage High/Low Side Driver*	14-SOIC	3.47	3.12	2.55
L6392DTR	497-8322-2-ND	High Voltage High/Low Side Driver*	14-SOIC	3840.00/2,500		
L6393DTR	497-8323-1-ND	Half Bridge Gate Driver*	14-SOIC	3.62	3.27	2.66
L6393DTR	497-8323-2-ND	Half Bridge Gate Driver*	14-SOIC	4017.50/2,500		
M41ST84WMQ6F	497-4693-1-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	5.10	4.59	3.74
M41ST85WMX6	497-2805-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.35	6.62	5.44
M41ST87WMX6	497-5370-5-ND	2.7V-5.5V Serial RTC/NVRAM Supervisor*	28-SOIC	8.93	8.04	6.61
M41ST87WMX6TR	497-6457-1-ND	Secure Serial RTC/NVRAM Supervisor*	28-SOIC	9.46	8.57	7.14
M41ST87WMX6TR	497-6457-2-ND	Secure Serial RTC/NVRAM Supervisor*	28-SOIC	4820.00/1,000		
M41ST87YMX6	497-2808-5-ND	5V, NVRAM 1280-Bit Serial RTC	28-SOIC	8.93	8.04	6.61
M41T0M6E	497-2812-5-ND	2V-5.5V, Serial RTC*	8-SOIC	2.41	2.18	1.75
M41T0M6F	497-4698-1-ND	2V-5.5V, Serial RTC*	8-SOIC	2.72	2.34	1.91
M41T0M6F	497-4698-2-ND	2V-5.5V, Serial RTC*	8-SOIC	2622.50/2,500		
M41T00AUDD1F	497-6883-1-ND	Serial RTC with Audio*	16-DFN	5.04	4.54	3.70
M41T00AUDD1F	497-6883-2-ND	Serial RTC with Audio*	16-DFN	6702.00/3,000		
M41T00M6F	497-4697-1-ND	Serial Access RTC	8-SOIC	3.28	2.95	2.41
M41T00M6F	497-4697-2-ND	Serial Access RTC	8-SOIC	3630.00/2,500		
M41T00SC64MY6F	497-5913-1-ND	2.7V-5.5V RTC + 64K-Bit EEPROM*	18-SOIC	5.52	4.97	4.05
M41T00SM6E	497-5371-5-ND	Serial Access RTC*	8-SOIC	3.06	2.73	2.24
M41T11M6F	497-4699-1-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	4.16	3.75	3.05
M41T11M6F	497-4699-2-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	4607.50/2,500		
M41T11MH6F	497-4700-1-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	7.09	6.38	5.20
M41T256YMT7F	497-4702-1-ND	5V, 256K-Bit Serial RTC	44-SOIC	9.78	8.86	7.38
M41T315V-85MH6F	497-4703-1-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	10.09	9.22	7.90
M41T315V-85MH6F	497-4703-2-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	6870.24/936		
M41T60Q6F	497-3906-1-ND	1.3V-3.6V, Serial RTC	16-QFN	2.28	1.96	1.60
M41T60Q6F	497-3906-2-ND	1.3V-3.6V, Serial RTC	16-QFN	2637.00/3,000		
M41T62Q6F	497-3907-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.51	2.16	1.76
M41T62Q6F	497-3907-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2904.00/3,000		
M41T64Q6F	497-6884-1-ND	Serial Access RTC with Alarm*	16-QFN	3.01	2.59	2.11
M41T64Q6F	497-6884-2-ND	Serial Access RTC with Alarm*	16-QFN	3486.00/3,000		
M41T65Q6F	497-3908-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.51	2.16	1.76
M41T65Q6F	497-3908-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2904.00/3,000		
M41T80M6F	497-4708-1-ND	2V-5.5V, Serial RTC with Alarm*	8-SOIC	2.76	2.37	1.94
M41T80M6F	497-4708-2-ND	2V-5.5V, Serial RTC with Alarm*	8-SOIC	2660.00/2,500		
M41T81M6F	497-4709-1-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	3.12	2.81	2.29
M41T81M6F	497-4709-2-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	3457.50/2,500		
M41T81SM6E	497-6708-5-ND	2V-5.5V, Serial RTC with Alarm*	8-SOIC	2.85	2.55	2.09
M41T81SM6F	497-4684-1-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	3.06	2.76	2.25
M41T81SM6F	497-4684-2-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	3387.50/2,500		
M41T81SMY6F	497-6157-1-ND	2.7V-5.5V, Serial RTC with Alarm*	18-SOIC	5.36	4.82	3.93
M41T81SMY6F	497-6157-2-ND	2.7V-5.5V, Serial RTC with Alarm*	18-SOIC	2499.00/1,000		
M41T82RM6E	497-5799-5-ND	2.7V-5.5V, Serial RTC with Battery Switchover*	8-SOIC	3.15	2.81	2.31
M41T82RM6F	497-8279-1-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3.37	3.04	2.48
M41T82RM6F	497-8279-2-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3737.50/2,500		
M41T82SM6F	497-7827-1-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3.37	3.04	2.48
M41T82SM6F	497-7827-2-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3737.50/2,500		
M41T82ZM6F	497-7828-1-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3.37	3.04	2.48
M41T82ZM6F	497-7828-2-ND	Serial I²C Bus RTC with Battery Switchover*	8-SOIC	3737.50/2,500		
M41T83RMY6F	497-6885-1-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	5.58	5.02	4.09
M41T83RMY6F	497-6885-2-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	2603.00/1,000		
M41T83SMY6F	497-6886-1-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	5.58	5.02	4.09
M41T83SMY6F	497-6886-2-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	2603.00/1,000		
M41T83SQA6F	497-6887-1-ND	Serial I²C Bus RTC with Battery Switchover*	16-QFN	4.13	3.72	3.03
M41T83SQA6F	497-6887-2-ND	Serial I²C Bus RTC with Battery Switchover*	16-QFN	1926.00/1,000		
M41T83ZMY6F	497-6888-1-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	5.58	5.02	4.09
M41T83ZMY6F	497-6888-2-ND	Serial I²C Bus RTC with Battery Switchover*	18-SOX	2603.00/1,000		
M41T83ZQA6F	497-6889-1-ND	Serial I²C Bus RTC with Battery Switchover*	16-QFN	4.13	3.72	3.03
M41T83ZQA6F	497-6889-2-ND	Serial I²C Bus RTC with Battery Switchover*	16-QFN	1926.00/1,000		
M41T93RMY6F	497-6020-1-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	5.83	5.25	4.28
M41T93RMY6F	497-6020-2-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	2720.00/1,000		
M41T93RQA6F	497-6302-1-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	4.13	3.72	3.03
M41T93RQA6F	497-6302-2-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	1926.00/1,000		
M41T93SMY6F	497-6890-1-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	5.83	5.25	4.28
M41T93SMY6F	497-6890-2-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	2720.00/1,000		
M41T93SQA6F	497-6303-1-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	4.13	3.72	3.03
M41T93SQA6F	497-6303-2-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	1926.00/1,000		
M41T93ZMY6F	497-6891-1-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	5.83	5.25	4.28
M41T93ZMY6F	497-6891-2-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	2720.00/1,000		
M41T93ZQA6F	497-6304-1-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	4.13	3.72	3.03
M41T93ZQA6F	497-6304-2-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	1926.00/1,000		
M41T94MH6E	497-2823-5-ND	2.7V-5.5V 512K-Bit Serial RTC SRAM	28-SOIC	6.63	5.97	4.91
M41T94MH6F	497-5372-1-ND	2V-5.5V, 512K-Bit Serial RTC*	28-SOIC	7.02	6.36	5.30
M41T94MH6F	497-5372-2-ND	2V-5.5V, 512K-Bit Serial RTC*	28-SOIC	3534.34/936		
M41T94MQ6E	497-3684-ND	2.7V-5.5V 512K-Bit Serial RTC SRAM	16-SOIC	4.28	3.83	3.14
M41T94MQ6F	497-5373-1-ND	2V-5.5V, 512K-Bit Serial RTC*	16-SOIC	4.82	4.34	3.54
M41T94MQ6F	497-5373-2-ND	2V-5.5V, 512K-Bit Serial RTC*	16-SOIC	5342.50/2,500		
NE555D	497-1962-5-ND	General Purpose Single Bipolar Timer	8-SOIC	.60	.51	.38
NE555DT	497-1962-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.64	.51	.39
NE555DT	497-1962-2-ND	General Purpose Single Bipolar Timer	8-SOIC	450.00/2,500		
NE555N	497-1963-5-ND	General Purpose Single Bipolar Timer	8-Dip	.43	.36	.27
NE556DT	497-1964-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.64	.51	.39
NE556DT	497-1964-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	450.00/2,500		
NE556N	497-1965-5-ND	General Purpose Dual Bipolar Timer	14-Dip	.55	.47	.35
SA555DT	497-2035-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.88	.76	.60
SA555DT	497-2035-2-ND	General Purpose Single Bipolar Timer	8-SOIC	725.00/2,500		
SA555N	497-2036-5-ND	General Purpose Single Bipolar Timer	8-Dip	.72	.63	.49
SA556DT	497-2037-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.88	.76	.60
SA556DT	497-2037-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	725.00/2,500		
SA556N	497-7420-5-ND	General Purpose Dual Bipolar Timer*	14-Dip	.92	.81	.63
SE555DT	497-6022-1-ND	General Purpose Single Bipolar Timer*	8-SOIC	1.16	1.04	.83
SE555DT	497-6022-2-ND	General Purpose Single Bipolar Timer*	8-SOIC	1067.50/2,500		
SE555N	497-7421-5-ND	General Purpose Single Bipolar Timer*	8-Dip	1.13	1.00	.79
SERC816/TR	497-3374-1-ND	Sercos Interface Controller	100-PQFP	39.27	38.29	32.40
SERC816/TR	497-3374-2-ND	Sercos Interface Controller	100-PQFP	13499.00/500		
ST3DV520QTR	497-8381-1-ND	High Bandwidth Analog Switch*	56-QFN	2.76	2.37	1.94
ST3DV520QTR	497-8381-2-ND	High Bandwidth Analog Switch*	56-QFN	2660.00/2,500		
ST26C31BDR	497-2063-1-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	.96	.86	.69
ST26C31BDR	497-2063-2-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	885.00/2,500		
ST26C31BTR	497-2065-1-ND	Tri-State CMOS Quad Diff. Line Driver	16-TSSOP	1.10	.99	.79
ST26C32ABDR	497-2066-1-ND	Tri-State CMOS Quad Diff. Line Receiver	16-SOIC	.97	.87	.69
ST26C32ABDR	497-2066-2-ND	Tri-State CMOS Quad Diff. Line Receiver	16-SOIC	892.50/2,500		
ST26C32ABTR	497-2068-1-ND	Tri-State CMOS Quad Diff. Line Receiver	16-TSSOP	1.20	1.08	.86
ST26C32ABTR	497-2068-2-ND	Tri-State CMOS Quad Diff. Line Receiver	16-TSSOP	1102.50/2,500		
ST26C31BTR	497-2065-2-ND	Tri-State CMOS Quad Diff. Line Driver	16-TSSOP	1015.00/2,500		
ST202BDR	497-2048-1-ND	5V RS-232 Driver/Receiver*	16-SOIC	2.21	1.89	1.55
ST202BDR	497-2048-2-ND	5V RS-232 Driver/Receiver*	16-SOIC	2127.50/2,500		
ST202BTR	497-2049-1-ND	5V Multi-Channel RS-232 Driver/Rcvr	16-TSSOP	1.61	1.45	1.15
ST202BTR	497-2049-2-ND	5V Multi-Channel RS-232 Driver/Rcvr	16-TSSOP	1485.00/2,500		
ST202CDR	497-7917-1-ND	5V Multi-Ch. RS-232 Driver/Receiver*	16-SOIC	2.21	1.89	1.55
ST202CDR	497-7917-2-ND	5V Multi-Ch. RS-232 Driver/Receiver*	16-SOIC	2127.50/2,500		
ST202CWR	497-7919-1-ND	5V Multi-Ch. RS-232 Driver/Receiver*	16-SOIC	1.71	1.47	1.20
ST202CWR	497-7919-2-ND	5V Multi-Ch. RS-232 Driver/Receiver*	16-SOIC	710.00/1,000		
ST202EBDR	497-8393-1-ND	5V RS-232 Transceiver, ESD Protected*	16-SOIC	1.80	1.42	1.28
ST202EBDR	497-8393-2-ND	5V RS-232 Transceiver, ESD Protected*	16-SOIC	1655.00/2,500		
ST202EBTR	497-7920-1-ND	5V RS-232 Transceiver, ESD Protected*	16-TSSOP	2.39	2.05	1.68
ST202EBTR	497-7920-2-ND	5V RS-232 Transceiver, ESD Protected*	16-TSSOP	2305.00/2,500		
ST202EBWR	497-5844-1-ND	5V, RS-232 Transceiver*	16-SOIC	1.84	1.65	1.31
ST202EBWR	497-5844-2-ND	5V, RS-232 Transceiver*	16-SOIC	725.00/1,000		
ST202ECTR	497-6527-1-ND	5V, RS-232 Transceiver*	16-TSSOP	2.39	2.05	1.68
ST202ECTR	497-6527-2-ND	5V, RS-232 Transceiver*	16-TSSOP	2305.00/2,500		
ST207EBPR	497-6179-1-ND	5V, RS-232 Transceiver*	24-SSOP	2.88	2.47	2.02
ST207EBPR	497-6179-2-ND	5V, RS-232 Transceiver*	24-SSOP	1609.20/1,350		
ST207ECPR	497-7921-1-ND	5V, RS-232 Transceiver*	24-SSOP	3.13	2.68	2.19
ST207ECPR	497-7921-2-ND	5V, RS-232 Transceiver*	24-SSOP	1748.25/1,350		
ST232ABDR	497-2054-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.61	1.45	1.15
ST232ABDR	497-2054-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1485.00/2,500		
ST232ACDR	497-3728-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.74	1.57	1.24
ST232ACDR	497-3728-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1607.50/2,500		
ST232BDR	497-6528-1-ND	5V, RS-232 Driver/Receiver*	16-SOIC	1.56	1.40	1.11
ST232BDR	497-6528-2-ND	5V, RS-232 Driver/Receiver*	16-SOIC	1437.50/2,500		
ST232BTR	497-2057-1-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-TSSOP	1.95	1.68	1.37
ST232BTR	497-2057-2-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-TSSOP	1880.00/2,500		
ST232BWR	497-3729-1-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-SOIC	1.65	1.48	1.18
ST232BWR	497-3729-2-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-SOIC	653.00/1,000		
ST232CDR	497-6529-1-ND	5V, RS-232 Driver/Receiver*	16-SOIC	1.29	1.16	.92
ST232CDR	497-6529-2-ND	5V, RS-232 Driver/Receiver*	16-SOIC	1187.50/2,500		
ST232CN	497-3017-5-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-Dip	1.18	1.05	.83
ST232CWR	497-6530-1-ND	5V, RS-232 Driver/Receiver*	16-SOIC	1.29	1.16	.92
ST232CWR	497-6530-2-ND	5V, RS-232 Driver/Receiver*	16-SOIC	509.00/1,000		
ST232EBDR	497-2058-1-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.68	1.37
ST232EBDR	497-2058-2-ND	5V, RS-232 Transceiver	16-SOIC	1880.00/2,500		
ST232EBTR	497-2060-1-ND	5V, RS-232 Transceiver	16-TSSOP	1.95	1.68	1.37
ST232EBTR	497-2060-2-ND	5V, RS-232 Transceiver	16-TSSOP	1880.00/2,500		
ST232ECTR	497-7922-1-ND	5V, RS-232 Transceiver*	16-TSSOP	2.39	2.05	1.68
ST232ECTR	497-7922-2-ND	5V, RS-232 Transceiver*	16-TSSOP	2305.00/2,500		
ST232ECWR	497-2062-1-ND	5V, RS-232 Transceiver	16-SOIC	2.39	2.05	1.68
ST232ECWR	497-2062-2-ND	5V, RS-232 Transceiver	16-SOIC	990.00/1,000		
ST485ABDR	497-2082-1-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	3.94	3.55	2.89
ST485ABDR	497-2082-2-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	4365.00/2,500		
ST485BDR	497-3733-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.78	1.53	1.25
ST485BDR	497-3733-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1715.00/2,500		
ST485BN	497-6728-5-ND	5V, LP, RS-485/RS-422 Transceiver*	8-Dip	1.19	1.50	1.19
ST485CDR	497-3734-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.44	1.29	1.03
ST485CDR	497-3734-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1322.50/2,500		
ST485CN	497-6729-5-ND	5V, LP, RS-485/RS-422 Transceiver*	8-Dip	1.57	1.43	1.15
ST485EBDR	497-2083-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.84	1.65	1.31
ST485EBDR	497-2083-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1690.00/2,500		
ST485ECDR	497-3735-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.71	1.53	1.22
ST485ECDR	497-3735-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1572.50/2,500		
ST485ERBDR	497-2085-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	3.78	3.41	2.78
ST485ERBDR	497-2085-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	4190.00/2,500		
ST485ERBN	497-2086-5-ND	5V, LP, RS-485/RS-422 Xcvr.* ***NEW!***	8-Dip	2.47	2.24	1.80
ST485ERXDR	497-2087-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	3.93	3.54	2.88
ST485EXDR	497-2089-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	3.47	3.12	2.55
ST485EXDR	497-2089-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	3840.00/2,500		
ST490ABDR	497-2091-1-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2.57	2.21	1.81
ST490ABDR	497-2091-2-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2480.00/2,500		
ST491ACN	497-4652-5-ND	LP, HS, RS-485/RS-422 Transceiver	14-Dip	2.35	2.13	1.71
ST802RT1AFR	497-10430-ND	10/100 Real-Time Ethernet 3.3V Transceiver* ***NEW!***	48-LQFP	3.53	3.15	2.59
ST802RT1BFR	497-10431-ND	10/100 Real-Time Ethernet 3.3V Transceiver* ***NEW!***	48-LQFP	6.47	5.78	4.74

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ST1480ABDR	497-2046-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3.78	3.41	2.78
ST1480ABDR	497-2046-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	4190.00/2,500		
ST1480ACDR	497-3726-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3.47	3.12	2.55
ST1480ACDR	497-3726-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3840.00/2,500		
ST3222BTR	497-5845-1-ND	3V to 3.6V, LP, RS-232 Driver/Receiver*	20-TSSOP	2.33	2.00	1.63
ST3222BTR	497-5845-2-ND	3V to 3.6V, LP, RS-232 Driver/Receiver*	20-TSSOP	2245.00/2,500		
ST3222CTR	497-7924-1-ND	3V to 3.6V, LP, RS-232 Driver/Receiver*	20-TSSOP	2.32	1.99	1.63
ST3222CTR	497-7924-2-ND	3V to 3.6V, LP, RS-232 Driver/Receiver*	20-TSSOP	2235.00/2,500		
ST3222EBPR	497-6531-1-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	20-SSOP	2.98	2.56	2.09
ST3222EBPR	497-6531-2-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	20-SSOP	1665.90/1,350		
ST3222EBTR	497-6532-1-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	20-TSSOP	3.49	3.00	2.45
ST3222EBTR	497-6532-2-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	20-TSSOP	3367.50/2,500		
ST3222ECPR	497-7925-1-ND	3V-3.6V, LP, RS-232 Driver/ Receiver*	20-SSOP	2.98	2.56	2.09
ST3222ECPR	497-7925-2-ND	3V-3.6V, LP, RS-232 Driver/ Receiver*	20-SSOP	1665.90/1,350		
ST3222ECTR	497-7926-1-ND	3V-3.6V, LP, RS-232 Driver/ Receiver*	20-TSSOP	3.25	2.93	2.39
ST3222ECTR	497-7926-2-ND	3V-3.6V, LP, RS-232 Driver/ Receiver,*	20-TSSOP	3597.50/2,500		
ST3232BDR	497-6533-1-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2.35	2.02	1.65
ST3232BDR	497-6533-2-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2267.50/2,500		
ST3232BTR	497-6534-1-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	16-TSSOP	2.71	2.32	1.90
ST3232BTR	497-6534-2-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	16-TSSOP	2610.00/2,500		
ST3232BWR	497-5242-1-ND	3V to 5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2.64	1.81	1.46
ST3232CDR	497-3731-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	2.33	2.00	1.63
ST3232CDR	497-3731-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	2245.00/2,500		
ST3232CTR	497-6535-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-TSSOP	2.37	2.04	1.66
ST3232CTR	497-6535-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-TSSOP	2285.00/2,500		
ST3232CWR	497-5243-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2.37	2.04	1.66
ST3232CWR	497-5243-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	982.00/1,000		
ST3232EBDR	497-6996-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2.57	2.21	1.81
ST3232EBDR	497-6996-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2480.00/2,500		
ST3232EBTR	497-6536-1-ND	3V-5.5V, LP, RS-232 Driver/ Receiver*	16-TSSOP	3.05	2.61	2.14
ST3232EBTR	497-6536-2-ND	3V-5.5V, LP, RS-232 Driver/ Receiver*	16-TSSOP	2937.50/2,500		
ST3232ECDR	497-6537-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2.49	2.13	1.74
ST3232ECDR	497-6537-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver*	16-SOIC	2397.50/2,500		
ST3232ECTR	497-6538-1-ND	3V to 5.5V, LP, RS-232 Driver/ Receiver*	16-TSSOP	2.98	2.56	2.09
ST3232ECTR	497-6538-2-ND	3V to 5.5V, LP, RS-232 Driver/ Receiver*	16-TSSOP	2872.50/2,500		
ST3237EBPR	497-7927-1-ND	3V to 5.5V, 250kbps RS-232 Transceiver, ESD Protected*	28-SSOP	3.38	2.90	2.37
ST3237EBPR	497-7927-2-ND	3V to 5.5V, 250kbps RS-232 Transceiver, ESD Protected*	28-SSOP	1891.35/1,350		
ST3241EBPR	497-6997-1-ND	3V to 5.5V, 400kbps, RS-232 Transceiver ESD Protected*	28-SSOP	3.17	2.73	2.23
ST3241EBPR	497-6997-2-ND	3V to 5.5V, 400kbps, RS-232 Transceiver ESD Protected*	28-SSOP	1775.25/1,350		
ST3241ECDR	497-4779-1-ND	3V to 5.5V, 400kbps, RS-232 Transceiver, ESD Protected	28-SOIC	2.70	2.43	1.98
ST3241ECPR	497-4947-1-ND	3V to 5.5V, 400kbps, RS-232 Transceiver, ESD Protected	28-SSOP	3.12	2.81	2.29
ST3241ECPR	497-4947-2-ND	3V to 5.5V, 400kbps, RS-232 Transceiver, ESD Protected	28-SSOP	1965.60/1,350		
ST3243BTR	497-4768-1-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-TSSOP	2.94	2.65	2.16
ST3243CPR	497-3732-1-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-SSOP	2.10	1.80	1.47
ST3243CPR	497-3732-2-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-SSOP	1173.15/1,350		
ST3243EBJR	497-2077-1-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-FlipChip	2.94	2.65	2.16
ST3243EBTR	497-2078-1-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-TSSOP	3.17	2.73	2.23
ST3243EBTR	497-2078-2-ND	3V-5.5V, 400kbps, RS-232 Transceiver	28-TSSOP	3060.00/2,500		
ST3243ECTR-E	497-6539-1-ND	3V-5.5V, 400kbps, RS-232 Transceiver*	28-TSSOP	3.53	3.18	2.59
ST3243ECTR-E	497-6539-2-ND	3V-5.5V, 400kbps, RS-232 Transceiver*	28-TSSOP	3910.00/2,500		
ST3384EBDR	497-2079-1-ND	3V to 5.5V, Low Power, Up to 250kbps, RS-232 Transceiver	18-SOIC	2.57	2.21	1.80
ST3485EBDR	497-2080-1-ND	3.3V, Up to 12Mbps, RS-485/RS-422, Transceiver	8-SOIC	3.62	3.27	2.66
ST3485ECDR	497-6540-1-ND	3.3V, Up to 12Mbps, RS-485/RS-422, Transceiver*	8-SOIC	2.92	2.51	2.05
ST3485ECDR	497-6540-2-ND	3.3V, Up to 12Mbps, RS-485/RS-422, Transceiver*	8-SOIC	2815.00/2,500		
ST8004CDR	497-4318-1-ND	SmartCard Interface	28-SOIC	3.78	3.41	2.78
ST8004CDR	497-4318-2-ND	SmartCard Interface	28-SOIC	1764.00/1,000		
ST8024CDR	497-4763-1-ND	SmartCard Interface	28-SOIC	3.17	2.73	2.23
ST8024CDR	497-4763-2-ND	SmartCard Interface	28-SOIC	1315.00/1,000		
ST75185CDR	497-2121-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.80	.70	.55
ST75185CDR	497-2121-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	291.00/1,000		
ST75185CPR	497-2122-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	1.42	1.28	1.02
ST75185CTR	497-5846-1-ND	Multiple RS-232 Driver/Receiver*	20-TSSOP	.81	.63	.54
ST75185CTR	497-5846-2-ND	Multiple RS-232 Driver/Receiver*	20-TSSOP	685.00/2,500		
ST75285CTR	497-2123-1-ND	Multiple RS-232 Driver/Receiver	38-TSSOP	2.00	1.72	1.40
STA020D	497-3941-5-ND	96kHz Digital Audio Interface Transmitter	24-SOIC	4.76	4.25	3.49
STA120D13TR	497-3943-1-ND	Digital Audio Interface Receiver	28-SOIC	5.61	5.05	4.12
STA120D13TR	497-3943-2-ND	Digital Audio Interface Receiver	28-SOIC	2618.00/1,000		
STLVD111BFR	497-2146-1-ND	Programmable Low Voltage 1:10 Differential LVDS Clock Driver	32-TQFP	26.78	26.11	22.10
STLVDS050BDR	497-2147-1-ND	HS Differential Line Driver/Receiver	16-SOIC	2.57	2.21	1.80
STLVDS31BTR	497-8190-1-ND	HS Differential Line Driver*	16-TSSOP	4.73	4.26	3.47
STLVDS31BTR	497-8190-2-ND	HS Differential Line Driver*	16-TSSOP	5237.50/2,500		
STLVDS32BDR	497-2148-1-ND	HS Differential Line Receiver	16-SOIC	4.50	4.05	3.30
STLVDS32BDR	497-2148-2-ND	HS Differential Line Receiver*	16-SOIC	5237.50/2,500		
STLVDS32BTR	497-4748-1-ND	HS Differential Line Receiver*	16-TSSOP	3.94	3.55	2.89
STLVDS32BTR	497-4748-2-ND	HS Differential Line Receiver*	16-TSSOP	4365.00/2,500		
STLVDS3486BDR	497-2149-1-ND	High Speed, Differential Line Receiver	16-SOIC	3.07	2.77	2.25
STM7E1AR	497-5971-1-ND	7 E 1 Channels Switch Array*	64-TQFP	11.13	10.08	8.40
STM7E1AR	497-5971-2-ND	7 E 1 Channels Switch Array*	64-TQFP	5670.00/1,000		
STOTG04EQTR	497-5128-1-ND	USB-OTG Full-Speed Transceiver*	24-QFN	3.78	3.41	2.78
STOTG04EQTR	497-5128-2-ND	USB-OTG Full-Speed Transceiver*	24-QFN	6704.00/4,000		
STOTG04ESQTR	497-8174-1-ND	USB-OTG Full-Speed Transceiver*	24-QFN	3.78	3.41	2.78
STOTG04ESQTR	497-8174-2-ND	USB-OTG Full-Speed Transceiver*	24-QFN	6704.00/4,000		
STPM01FTR	497-4762-1-ND	Prog. Single Phase Energy Metering IC	20-TSSOP	9.94	7.61	7.04
STPM11ATR	497-5984-1-ND	Single Phase Energy Metering IC*	20-TSSOP	5.60	4.96	3.84
STPM11ATR	497-5984-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5585.00/2,500		
STPM12ATR	497-5985-1-ND	Single Phase Energy Metering IC*	20-TSSOP	5.60	4.96	3.84
STPM12ATR	497-5985-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5585.00/2,500		
STPM13ATR	497-5986-1-ND	Single Phase Energy Metering IC*	20-TSSOP	5.60	4.96	3.84
STPM13ATR	497-5986-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5585.00/2,500		
STPM14ATR	497-5987-1-ND	Single Phase Energy Metering IC*	20-TSSOP	5.60	4.96	3.84
STPM14ATR	497-5987-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5585.00/2,500		
STPMC1BTR	497-9071-1-ND	Prog. Poly-Phase Energy Calculator* ***NEW!***	20-TSSOP	3.94	3.55	2.89
STPMC1BTR	497-9071-2-ND	Prog. Poly-Phase Energy Calculator* ***NEW!***	20-TSSOP	4365.00/2,500		
STSMIA832TBR	497-5147-1-ND	1.8V/2.8V HS Dual Diff. Line Receiver*	25-TFBGA	4.41	3.97	3.24
STSMIA832TBR	497-5147-2-ND	1.8V/2.8V HS Dual Diff. Line Receiver*	25-TFBGA	6842.50/3,500		
STUSB03EQR	497-8055-1-ND	USB Transceiver*	16-QFN	1.38	1.24	.99
STUSB03EQR	497-8055-2-ND	USB Transceiver*	16-QFN	1524.00/3,000		
TD220ID	497-2156-5-ND	Gate Driver	8-SOIC	1.66	1.47	1.16
TD220IDT	497-5416-1-ND	Gate Driver*	8-SOIC	1.80	1.53	1.31
TD220IDT	497-5416-2-ND	Gate Driver*	8-SOIC	1655.00/2,500		
TD221ID	497-2157-5-ND	Gate Driver	8-SOIC	1.66	1.47	1.16
TD310ID	497-6756-5-ND	Triple IGBT/MOS Driver*	16-SOIC	3.06	2.77	2.23
TD310IDT	497-4052-1-ND	Triple IGBT/MOS Driver	16-SOIC	2.87	2.46	2.01
TD310IDT	497-4052-2-ND	Triple IGBT/MOS Driver	16-SOIC	2765.00/2,500		
TD310IN	497-7649-5-ND	Triple IGBT/MOS Driver*	16-Dip	3.06	2.77	2.23
TD350IDT	497-4053-1-ND	Advanced IGBT/MOSFET Driver	14-SOIC	3.47	3.12	2.55
TD350IDT	497-4053-2-ND	Advanced IGBT/MOSFET Driver	14-SOIC	3840.00/2,500		
TD351IDT	497-4439-1-ND	Advanced IGBT/MOSFET Driver	8-SOIC	2.54	2.18	1.78
TD351IN	497-4440-5-ND	Advanced IGBT/MOSFET Driver	8-Dip	2.25	2.03	1.64
TD352IDT	497-4676-1-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1.70	1.53	1.21
TD352IDT	497-4676-2-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1567.50/2,500		
TD352IN	497-6757-5-ND	Advanced IGBT/MOSFET Driver*	8-Dip	3.09	2.76	2.27
TDE1707BFP	497-6758-5-ND	Intelligent Power Switch*	8-SOIC	5.73	5.12	4.20
TDE1707BFPT	497-3674-1-ND	Intelligent Power Switch	8-SOIC	6.14	5.53	4.51
TDE1707BFPT	497-3674-2-ND	Intelligent Power Switch	8-SOIC	6810.00/2,500		
TDE1707DFT	497-5169-1-ND	Intelligent Power Switch*	8-DFN	3.93	3.54	2.88
TDE1707DFT	497-5169-2-ND	Intelligent Power Switch*	8-DFN	8280.00/4,500		
TDE1737DP	497-5322-5-ND	Relay and Lamp Driver*	8-Dip	5.94	5.31	4.35
TDE1737FP	497-5418-5-ND	Relay and Lamp Driver*	14-SOIC	4.63	4.14	3.39
TDE1737FPT	497-5419-1-ND	Relay and Lamp Driver*	14-SOIC	7.07	6.27	4.85
TDE1737FPT	497-5419-2-ND	Relay and Lamp Driver*	14-SOIC	7052.50/2,500		
TDE1747FP	497-5421-5-ND	Relay and Lamp Driver*	14-SOIC	5.94	5.31	4.35
TDE1767ADP	497-6759-5-ND	60V, 1.3A Relay/Lamp Driver*	8-Dip	7.89	7.11	5.85
TDE1767DP	497-6760-5-ND	50V, 1.2A Relay/Lamp Driver*	8-Dip	8.14	7.33	6.03
TDE1787ADP	497-5422-5-ND	Relay and Lamp Driver*	8-Dip	10.11	9.10	7.48
TDE1787DP	497-5423-5-ND	Relay and Lamp Driver*	8-Dip	5.74	5.17	4.25
TDE1798DP	497-2184-5-ND	0.5A, Intelligent Power Switch	8-Mini Dip	7.30	6.57	5.41
TDE1897RDP	497-2185-5-ND	0.5A, High-Side IPS Driver	8-Mini Dip	4.35	3.89	3.19
TDE1897RFPT	497-5194-1-ND	0.5A, High-Side IPS Driver*	20-SOIC	6.96	6.30	5.25
TDE1898CDP	497-5425-5-ND	0.5A, High-Side IPS Driver*	8-Dip	6.36	5.72	4.71
TDE1898RFPT	497-5233-1-ND	0.5A, High-Side IPS Driver*	20-SOIC	8.05	7.13	5.52
TDE1898RFPT	497-5233-2-ND	0.5A, High-Side IPS Driver*	20-SOIC	3381.00/1,000		
TDE3247FPT	497-5323-1-ND	Relay and Lamp Driver*	14-SOIC	5.88	5.21	4.04
TDE3247FPT	497-5323-2-ND	Relay and Lamp Driver*	14-SOIC	5865.00/2,500		
TS555CDT	497-3043-1-ND	Low Power, Single CMOS Timer	8-SOIC	.70	.60	.48
TS555CDT	497-3043-2-ND	Low Power, Single CMOS Timer	8-SOIC	572.50/2,500		
TS555CN	497-3044-5-ND	Low Power, Single CMOS Timer	8-Dip	.71	.62	.48
TS555ID	497-3045-5-ND	Low Power, Single CMOS Timer	8-SOIC	.68	.60	.46
TS555IDT	497-2298-1-ND	Low Power, Single CMOS Timer	8-SOIC	.74	.64	.51
TS555IDT	497-2298-2-ND	Low Power, Single CMOS Timer	8-SOIC	610.00/2,500		
TS555IN	497-2299-5-ND	Low Power, Single CMOS Timer	8-Dip	.68	.60	.46
TS555IPT	497-4069-1-ND	Low Power, Single CMOS Timer	8-TSSOP	.92	.80	.63
TS555IPT	497-4069-2-ND	Low Power, Single CMOS Timer	8-TSSOP	1220.00/4,000		
TS556CDT	497-6615-1-ND	Low Power, Dual CMOS Timer*	14-SOIC	1.08	.97	.77
TS556CDT	497-6615-2-ND	Low Power, Dual CMOS Timer*	14-SOIC	995.00/2,500		
TS556CN	497-7680-5-ND	Low Power, Dual CMOS Timer*	14-Dip	.99	.88	.70
TS556IDT	497-2300-1-ND	Low Power, Dual CMOS Timer	14-SOIC	1.32	1.18	.94
TS556IDT	497-2300-2-ND	Low Power, Dual CMOS Timer	14-SOIC	1215.00/2,500		
TS556IN	497-2301-5-ND	Low Power, Dual CMOS Timer	14-Dip	.88	.79	.62
TSA1204IFT	497-5435-1-ND	Dual-Channel 12-Bit, 20MSPS ADC*	48-TQFP	26.10	25.20	19.80
TSA1204IFT	497-5435-2-ND	Dual-Channel, 12-Bit, 20MSPS ADC*	48-TQFP	28917.60/2,400		
ULN2001A	497-2340-5-ND	Seven Darlington Array*	16-Dip	.88	.78	.60
ULN2001D1013TR	497-2341-1-ND	Seven Darlington Array	16-SOIC	.97	.84	.67
ULN2001D1013TR	497-2341-2-ND	Seven Darlington Array	16-SOIC	800.00/2,500		
ULN2002A	497-4549-ND	Seven Darlington Array*	16-Dip	.88	.78	.60
ULN2002D1013TR	497-2343-1-ND	Seven Darlington Array	16-SOIC	.97	.84	.67
ULN2002D1013TR	497-2343-2-ND	Seven Darlington Array	16-SOIC	800.00/2,500		
ULN2003A	497-2344-5-ND	Seven Darlington Array	16-Dip	.63	.56	.43
ULN2003D1013TR	497-2345-1-ND	Seven Darlington Array	16-SOIC	.80	.64	.48
ULN2003D1013TR	497-2345-2-ND	Seven Darlington Array	16-SOIC	562.50/2,500		
ULN2004A	497-2346-5-ND	Seven Darlington Array*	16-Dip	.88	.78	.60
ULN2004D1013TR	497-2347-1-ND	Seven Darlington Array	16-SOIC	.97	.84	.67
ULN2004D1013TR	497-2347-2-ND	Seven Darlington Array	16-SOIC	800.00/2,500		
ULN2064B	497-2348-5-ND	50V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2065B	497-2349-5-ND	80V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2066B	497-6788-5-ND	50V Quad Darlington Switch*	16-Dip	3.09	2.80	2.25
ULN2067B	497-2350-5-ND	80V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2068B	497-2351-5-ND	50V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2069B	497-2352-5-ND	80V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2074B	497-2353-5-ND	50V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2075B	497-3084-5-ND	80V Quad Darlington Switch	16-Power Dip	3.09	2.80	2.25
ULN2801A	497-2354-5-ND	Eight Darlington Array	18-Dip	1.03	.92	.73
ULN2802A	497-2355-5-ND	Eight Darlington Array	18-Dip	1.03	.92	.73
ULN2803A	497-2356-5-ND	Eight Darlington Array	18-Dip	1.03	.92	.73
ULN2804A	497-2357-5-ND	Eight Darlington Array	18-Dip	1.03	.92	.73
ULQ2003A	497-2358-5-ND	Seven Darlington Array	16-Dip	.99	.88	.70
ULQ2003D1013TR	497-2359-1-ND	Seven Darlington Array	16-SOIC	1.08	.97	.77
ULQ2003D1013TR	497-2359-2-ND	Seven Darlington Array	16-SOIC	995.00/2,500		
ULQ2003D1013TRY	497-10282-1-ND	Seven Darlington Array* ***NEW!***	16-SOIC	1.28	1.15	.91
ULQ2003D1013TRY	497-10282-2-ND	Seven Darlington Array* ***NEW!***	16-SOIC	1175.00/2,500		
ULQ2004A	497-2360-5-ND	Seven Darlington Array	16-Dip	.99	.88	.70
ULQ2004D1013TR	497-2361-1-ND	Seven Darlington Array	16-SOIC	1.08	.97	.77
ULQ2004D1013TR	497-2361-2-ND	Seven Darlington Array	16-SOIC	995.00/2,500		
ULQ2802A	497-6789-5-ND	Eight Darlington Array*	18-Dip	1.47	1.31	1.03
ULQ2803A	497-2362-5-ND	Eight Darlington Array*	18-Dip	1.47	1.31	1.03
ULQ2804A	497-7692-5-ND	Eight Darlington Array*	18-Dip	1.47	1.31	1.03
VN330SP-E	497-5052-5-ND	0.7A, Quad High Side Smart Power SSR	10-PowerSO	8.53	7.68	6.32
VN330SPTR-32-E	497-8168-1-ND	Quad High Side Smart Power SSR*	10-PowerSO	8.35	7.56	6.30
VN330SPTR-32-E	497-8168-2-ND	Quad High Side Smart Power SSR*	10-PowerSO	2929.80/600		
VN330SPTR-E	497-6627-1-ND	Quad High Side SSR*	10-PowerSOIC	8.35	7.56	6.30
VN330SPTR-E	497-6627-2-ND	Quad High Side SSR*	10-PowerSOIC	2929.80/600		
VN340SPTR-33-E	497-6166-1-ND	Quad High Side SSR*	10-PowerSO	8.35	7.56	6.30

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(Continued)

STMicroelectronics DigiReel® (Cont.) ANALOG AND MIXED SIGNAL ICs

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
VN340SPTR-33-E	497-6166-2-ND	Quad High Side SSR*	10-PowerSO	2929.80/600		
VN340SPTR-E	497-6806-1-ND	Quad High Side SSR*	10-PowerSOIC	8.35	7.56	6.30
VN340SPTR-E	497-6806-2-ND	Quad High Side SSR*	10-PowerSOIC	2929.80/600		
VN540-E	497-6168-5-ND	Single High Side SSR Vertical Lead*	5-Pentawatt	7.88	7.09	5.83
VN540SPTR-E	497-5773-1-ND	Single High Side SSR*	10-PowerSO	8.49	7.69	6.41
VN540SPTR-E	497-5773-2-ND	Single High Side SSR*	10-PowerSO	2979.00/600		
VN751PT13TR	497-6114-1-ND	2.5A, High Side Driver*	PPAK-5	3.01	2.59	2.11
VN751PT13TR	497-6114-2-ND	2.5A, High Side Driver*	PPAK-5	2905.00/2,500		
VN751STR	497-8169-1-ND	High Side Driver*	8-SOIC	2.79	2.40	1.96
VN751STR	497-8169-2-ND	High Side Driver*	8-SOIC	2692.50/2,500		
VN808CM-E	497-4925-5-ND	Octal Channel High Side Driver	36-PowerSO	10.37	9.34	7.68
VN808CMTR-32-E	497-8170-1-ND	Low Threshold Octal High Side Driver*	36-PowerSO	13.28	12.13	10.40
VN808CMTR-32-E	497-8170-2-ND	Low Threshold Octal High Side Driver*	36-PowerSO	5024.40/600		
VN808CMTR-E	497-8285-1-ND	Octal Channel High Side Driver*	36-PowerSO	10.30	9.33	7.77
VN808CMTR-E	497-8285-2-ND	Octal Channel High Side Driver*	36-PowerSO	3613.20/600		
VN808SR13TR	497-4747-1-ND	Octal Channel High Side Driver	36-PowerSO	11.41	10.33	8.61
VN808SR13TR	497-4747-2-ND	Octal Channel High Side Driver	36-PowerSO	4003.80/600		
VN808TR-32-E	497-6843-1-ND	Octal Channel High Side Driver*	36-PowerSO	12.54	11.45	9.81
VN808TR-32-E	497-6843-2-ND	Octal Channel High Side Driver*	36-PowerSO	4741.80/600		
VN808TR-E	497-4496-1-ND	Octal Channel High Side Driver*	36-PowerSO	10.30	9.33	7.77
VN808TR-E	497-4496-2-ND	Octal Channel High Side Driver*	36-PowerSO	3613.20/600		
VNI4140KTR	497-6952-1-ND	Quad High Side Smart Power Solid State Relay*	24-PowerSSO	6.62	5.96	4.86
VNI4140KTR	497-6952-2-ND	Quad High Side Smart Power Solid State Relay*	24-PowerSSO	3087.00/1,000		
VNQ860	497-2704-5-ND	36V, .25A, Quad Ch High Side Driver	20-SOIC	4.72	4.22	3.46
VNQ860-E	497-6809-5-ND	Quad High Side Driver*	20-SOIC	6.06	5.41	4.44
VNQ860TR-E	497-6113-1-ND	Quad Channel High Side Driver*	20-SOIC	5.83	5.25	4.28
VNQ860TR-E	497-6113-2-ND	Quad Channel High Side Driver*	20-SOIC	2720.00/1,000		

STMicroelectronics DigiReel® APPLICATION SPECIFIC FOR AUDIO

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DEMOTS488S	497-6362-ND	Demo Board for TS488*	—	30.00	—	—
DEMOTS489S	497-6363-ND	Demo Board for TS489*	—	30.00	—	—
DEMOTS2007Q	497-6360-ND	Demo Board for TS2007*	—	150.00	—	—
DEMOTS4909Q	497-6380-ND	Demo Board for TS4909Q*	—	60.00	—	—
DEMOTS4956J	497-6381-ND	Demo Board for TS4956*	—	150.00	—	—
DEMOTS4974Q	497-6382-ND	Demo Board for TS4974*	—	45.00	—	—
DEMOTS4990Q	497-6383-ND	Demo Board for TS4990*	—	60.00	—	—
DEMOTS4995J	497-6364-ND	Demo Board for TS4995*	—	45.00	—	—
STA013T$013TR	497-8855-1-ND	MPEG 2.5 Layer III Audio Decoder* ***NEW!***	44-TQFP	12.65	11.55	9.90
STA013T$013TR	497-8855-2-ND	MPEG 2.5 Layer III Audio Decoder* ***NEW!***	44-TQFP	7315.00/1,000		
STA013$013TR	497-3939-1-ND	MPEG 2.5 Layer III Audio Decoder	28-SOIC	12.65	11.55	9.90
STA015T$	497-2141-ND	MPEG 2.5 Layer III Audio Decoder	44-TQFP	21.23	19.30	16.41
STA30813TR	497-3946-1-ND	Multi-Ch. Digital Audio Processor	64-TQFP	10.00	9.06	7.55
STA309A13TR	497-8874-1-ND	Multi-Ch. Digital Audio Processor* ***NEW!***	64-TQFP	6.30	5.04	4.32
STA309A13TR	497-8874-2-ND	Multi-Ch. Digital Audio Processor* ***NEW!***	64-TQFP	2430.00/1,000		
STA310	497-8856-ND	6+2 Ch. Multistandard Audio Decoder* ***NEW!***	80-TQFP	12.10	11.00	9.35
STA333ML13TR	497-8877-1-ND	2-Ch. Microless High Efficiency Digital Audio System* ***NEW!***	36-PowerSO	4.55	3.51	3.12
STA333ML13TR	497-8877-2-ND	2-Ch. Microless High Efficiency Digital Audio System* ***NEW!***	36-PowerSO	1755.00/1,000		
STA500	497-3947-5-ND	30V, 3.5A Quad Power Half Bridge	36-PowerSO	9.38	8.44	6.94
STA502A	497-3950-5-ND	40V, 4A Double Power Half Bridge	36-PowerSO	7.69	6.92	5.69
STA529Q	497-8879-ND	100mW Class-D Amp* ***NEW!***	52-VFQFPN	3.48	3.00	2.52
STA540	497-8880-5-ND	13W Dual/Quad Power Amp* ***NEW!***	15-Multiwatt	3.34	2.88	2.42
STA543SA	497-8881-5-ND	Triple Amp with DC Volume Control* ***NEW!***	19-Clipwatt	2.90	2.50	2.10
STA32813TR	497-8876-1-ND	2.1 Channel High Efficiency Digital Audio System* ***NEW!***	36-PowerSO	8.05	6.21	5.52
STA32813TR	497-8876-2-ND	2.1 Channel High Efficiency Digital Audio System* ***NEW!***	36-PowerSO	2001.00/600		
STA50513TR	497-8319-1-ND	40V, 3.5A Quad Power Half Bridge*	36-PowerSO	6.27	5.65	4.60
STA50513TR	497-8319-2-ND	40V, 3.5A Quad Power Half Bridge*	36-PowerSO	2081.40/600		
STA50613TR	497-8857-1-ND	40V, 4A Quad Power Half Bridge* ***NEW!***	36-PowerSO	6.93	6.24	5.09
STA50613TR	497-8857-2-ND	40V, 4A Quad Power Half Bridge* ***NEW!***	36-PowerSO	2301.00/600		
STA50813TR	497-8858-1-ND	40V, 4.5A Quad Power Half Bridge* ***NEW!***	36-PowerSO	6.70	6.08	5.06
STA50813TR	497-8858-2-ND	40V, 4.5A Quad Power Half Bridge* ***NEW!***	36-PowerSO	2353.20/600		
STA51813TR	497-8878-1-ND	40V, 3.5A Quad Power Half Bridge* ***NEW!***	36-PowerSO	7.00	5.40	4.80
STA51813TR	497-8878-2-ND	40V, 3.5A Quad Power Half Bridge* ***NEW!***	36-PowerSO	2700.00/1,000		
STEVAL-CCA002V1	497-6395-ND	Evaluation Board for TS4994*	—	45.68	—	—
STEVAL-CCA003V1	497-6396-ND	Evaluation Board for TS4984*	—	47.25	—	—
TBA820M	497-3025-5-ND	1.2W Audio Amp	8-Dip	.96	.86	.68
TDA1905	497-2160-5-ND	5W Audio Amplifier	16-Power Dip	2.39	2.16	1.74
TDA1910HS	497-8860-5-ND	10W Audio Amplifier	11-Multiwatt	2.28	1.84	1.66
TDA2003H	497-2161-5-ND	10W Car Radio Audio Amp	Pentawatt	2.35	2.12	1.71
TDA2006V	497-8861-5-ND	12W Audio Amplifier* ***NEW!***	5-Pentawatt	1.46	1.30	1.03
TDA2009A	497-2164-5-ND	10 + 10W, Stereo Amp	11-Multiwatt	2.93	2.62	2.15
TDA2030AV	497-2165-5-ND	18W, Hi-Fi Amp/35W Driver	5-Pentawatt	1.67	1.51	1.22
TDA2030H	497-3026-5-ND	14W, Hi-Fi Audio Amp	5-Pentawatt	3.08	2.75	2.26
TDA2040H	497-8862-5-ND	20W Hi-Fi Audio Amp* ***NEW!***	5-Pentawatt	2.75	2.46	2.02
TDA2040V	497-3027-5-ND	20W, Hi-Fi Audio Amp	5-Pentawatt	3.70	3.30	2.71
TDA2050V	497-3028-5-ND	32W, Hi-Fi Audio Amp	5-Pentawatt	2.93	2.62	2.15
TDA2052V	497-3955-5-ND	60W Hi-Fi Audio Power Amp	Heptawatt	3.39	3.03	2.49
TDA2822D	497-2166-5-ND	Dual Low Voltage Power Amp	8-SOIC	1.54	1.37	1.08
TDA2822M	497-8863-5-ND	Dual Low Volt. Power Amp* ***NEW!***	8-MDip	1.62	1.44	1.14
TDA7266D13TR	497-8864-1-ND	5W Dual Bridge Amp* ***NEW!***	20-PowerSO	4.88	4.40	3.59
TDA7266D13TR	497-8864-2-ND	5W Dual Bridge Amp* ***NEW!***	20-PowerSO	1621.20/600		

STMicroelectronics DigiReel® (Cont.) APPLICATION SPECIFIC FOR AUDIO

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TDA7266S	497-3670-ND	10W, Dual Bridge Amp	15-Multiwatt	2.93	2.62	2.15
TDA7267A	497-3962-5-ND	3W, Mono Amp	16-Power Dip	1.12	.99	.79
TDA7269A	497-3964-5-ND	AB Dual Audio Power Amp	11-Multiwatt	3.91	3.50	2.87
TDA7293HS	497-8865-5-ND	120V, 100W DMOS Audio Amp* ***NEW!***	15-Multiwatt	5.85	5.23	4.29
TDA7293V	497-2170-5-ND	120V, 100W DMOS Audio Amp	15-Multiwatt	5.85	5.23	4.29
TDA7294HS	497-8882-5-ND	100V, 100W DMOS Audio Amp* ***NEW!***	15-Multiwatt	5.80	5.00	4.20
TDA7294V	497-2171-5-ND	100V, 100W DMOS Audio Amp	15V-Multiwatt	6.16	5.50	4.51
TDA7295	497-3965-5-ND	80V, 80W DMOS Audio Amp	15-Multiwatt	5.39	4.82	3.95
TDA7296	497-3966-5-ND	70V, 60W DMOS Audio Amp	15-Multiwatt	4.77	4.27	3.50
TDA7297	497-3967-5-ND	10W Dual Bridge Amp	15-Multiwatt	4.31	3.85	3.16
TDA7297D13TR	497-8868-1-ND	10W Dual Bridge Amp* ***NEW!***	20-PowerSO	5.94	5.35	4.36
TDA7297D13TR	497-8868-2-ND	10W Dual Bridge Amp* ***NEW!***	20-PowerSO	1972.20/600		
TDA7309D013TR	497-3969-1-ND	Digital Controlled Stereo Audio Processor	20-SOIC	3.63	3.27	2.67
TDA7309D013TR	497-3969-2-ND	Digital Controlled Stereo Audio Processor	20-SOIC	1694.00/1,000		
TDA7439	497-8866-5-ND	Three Bands Digitally Controlled Audio Processor* ***NEW!***	30-SDIP	4.77	4.27	3.50
TDA7439DS13TR	497-3983-1-ND	Three Bands Digitally Controlled Audio Processor	28-SOIC	5.12	4.61	3.76
TDA7439DS13TR	497-3983-2-ND	Three Bands Digitally Controlled Audio Processor	28-SOIC	2387.00/1,000		
TDA7442D013TR	497-8869-1-ND	Tone Control, Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	4.62	4.16	3.39
TDA7442D013TR	497-8869-2-ND	Tone Control, Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	2156.00/1,000		
TDA7449	497-3672-ND	Tone Control, Digitally Controlled Audio Processor	20-Dip	3.39	3.03	2.49
TDA7468D13TR	497-8870-1-ND	Two Band, Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	4.29	3.87	3.15
TDA7468D13TR	497-8870-2-ND	Two Band, Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	2002.00/1,000		
TDA7482	497-3984-5-ND	25W Mono Class-D Amp	15-Multiwatt	7.38	6.65	5.47
TDA7490L	497-3986-5-ND	Dual Stereo Class-D Amp	25-Flexiwatt	4.58	4.09	3.36
TDA7496	497-8872-5-ND	5W Amp with DC Volume Control* ***NEW!***	15-Multiwatt	3.07	2.78	2.23
TDA7496L	497-8873-5-ND	2W Amp with DC Volume Control* ***NEW!***	20-Dip	2.39	2.16	1.74
TDA744813TR	497-8884-1-ND	6-Ch. Volume Controller* ***NEW!***	20-SOIC	5.43	4.19	3.72
TDA744813TR	497-8884-2-ND	6-Ch. Volume Controller* ***NEW!***	20-SOIC	2092.50/1,000		
TEA2025B	497-3991-5-ND	Stereo Audio Amp	16-Dip	1.16	1.03	.81
TEA2025D013TR	497-3675-1-ND	Stereo Audio Amp	20-SOIC	1.08	.97	.77
TS2007IQT	497-6031-1-ND	3W Filter-Free Class-D Audio Power Amp*	8-DFN	1.84	1.58	1.29
TS2007IQT	497-6031-2-ND	3W Filter-Free Class-D Audio Power Amp*	8-DFN	2127.00/3,000		
TS2012IQT	497-6943-1-ND	Filter-Free Stereo 2x2.8W Class-D Audio Power Amp*	20-QFN	2.33	2.00	1.63
TS2012IQT	497-6943-2-ND	Filter-Free Stereo 2x2.8W Class-D Audio Power Amp*	20-QFN	4041.00/4,500		
TS419IDT	497-4065-1-ND	360mW Mono Amp	8-SOIC	1.56	1.40	1.11
TS419IDT	497-4065-2-ND	360mW Mono Amp	8-SOIC	1435.00/2,500		
TS419IST	497-4448-1-ND	360mW Mono Amp	8-SOIC	1.56	1.40	1.11
TS419IST	497-4448-2-ND	360mW Mono Amp	8-SOIC	2296.00/4,000		
TS421IQT	497-8103-1-ND	360mW Mono Amp*	8-DFN	1.80	1.61	1.28
TS421IQT	497-8103-2-ND	360mW Mono Amp*	8-DFN	1986.00/3,000		
TS421IST	497-4449-1-ND	360mW Mono Amp	8-SOIC	1.56	1.40	1.11
TS421IST	497-4449-2-ND	360mW Mono Amp	8-SOIC	2296.00/4,000		
TS472EIJT	497-4985-1-ND	LN Microphone Preamp	12-FlipChip	1.64	1.47	1.17
TS472EIJT	497-4985-2-ND	LN Microphone Preamp	12-FlipChip	3050.00/5,000		
TS472IQT	497-5826-1-ND	Very Low Noise Microphone Preamplifier with 2.0V Bias Output*	24-QFN	2.13	1.83	1.50
TS472IQT	497-5826-2-ND	Very Low Noise Microphone Preamplifier with 2.0V Bias Output*	24-QFN	3288.00/4,000		
TS482IDT	497-2287-1-ND	100mW Stereo Headphone Amp	8-SOIC	.96	.86	.69
TS482IDT	497-2287-2-ND	100mW Stereo Headphone Amp	8-SOIC	882.50/2,500		
TS482IQT	497-2288-1-ND	100mW Stereo Headphone Amp	8-DFN	1.12	1.00	.80
TS482IQT	497-2288-2-ND	100mW Stereo Headphone Amp	8-DFN	1236.00/3,000		
TS482IST	497-8110-1-ND	100mW Stereo Headphone Amp*	8-MSOP	1.12	1.00	.80
TS482IST	497-8110-2-ND	100mW Stereo Headphone Amp*	8-MSOP	1648.00/4,000		
TS486ID	497-3041-5-ND	100mW Stereo Headphone Amp	8-SOIC	1.40	1.24	.98
TS486IDT	497-2289-1-ND	100mW Stereo Headphone Amp	8-SOIC	1.52	1.36	1.08
TS486IDT	497-2289-2-ND	100mW Stereo Headphone Amp	8-SOIC	1397.50/2,500		
TS486IQT	497-8111-1-ND	100mW Stereo Headphone Amp*	8-DFN	1.64	1.47	1.17
TS486IQT	497-8111-2-ND	100mW Stereo Headphone Amp*	8-DFN	1809.00/3,000		
TS486IST	497-8112-1-ND	100mW Stereo Headphone Amp*	8-MSOP	1.52	1.36	1.08
TS486IST	497-8112-2-ND	100mW Stereo Headphone Amp*	8-MSOP	2236.00/4,000		
TS487ID	497-2291-5-ND	100mW Stereo Headphone Amp	8-SOIC	1.66	1.47	1.16
TS488IQT	497-8114-1-ND	Pop-free 120mW Stereo Headphone Amp*	8-DFN	2.21	1.89	1.55
TS488IQT	497-8114-2-ND	Pop-free 120mW Stereo Headphone Amp*	8-DFN	2553.00/3,000		
TS488IST	497-8115-1-ND	Pop-free 120mW Stereo Headphone Amp*	8-MSOP	2.21	1.89	1.55
TS488IST	497-8115-2-ND	Pop-free 120mW Stereo Headphone Amp*	8-MSOP	3404.00/4,000		
TS4871ID	497-2290-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.60	1.45	1.16
TS4871IDT	497-5433-1-ND	1W, R/R Output Audio Power Amp*	8-SOIC	1.80	1.55	1.27
TS4871IDT	497-5433-2-ND	1W, R/R Output Audio Power Amp*	8-SOIC	1737.50/2,500		
TS4871IQT	497-8113-1-ND	1W, R/R Out Audio Power Amp*	8-DFN	1.80	1.61	1.28
TS4871IST	497-4068-1-ND	1W, R/R Output Audio Power Amp	8-MSOP	1.80	1.55	1.27
TS4871IST	497-4068-2-ND	1W, R/R Output Audio Power Amp	8-MSOP	2780.00/4,000		
TS489IQT	497-5991-1-ND	120mW, Stereo Headphone Amp*	8-DFN	1.16	.99	.85
TS489IQT	497-5991-2-ND	120mW, Stereo Headphone Amp*	8-DFN	1281.00/3,000		
TS4657IQT	497-8827-1-ND	Single Supply Stereo Digital Audio Line Driver* ***NEW!***	20-QFN	3.47	3.12	2.55
TS4657IQT	497-8827-2-ND	Single Supply Stereo Digital Audio Line Driver* ***NEW!***	20-QFN	6912.00/4,500		
TS4890ID	497-2292-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	2.12	1.92	1.54
TS4890IST	497-6776-1-ND	1W, R/R Output Audio Power Amp*	8-Mini SOIC	2.57	2.21	1.81
TS4890IST	497-6776-2-ND	1W, R/R Output Audio Power Amp*	8-Mini SOIC	3968.00/4,000		

** RoHS Compliant*

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(Continued)

APPLICATION SPECIFIC FOR AUDIO

STMicroelectronics **Digi-Reel®** (Cont.)

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS4902IST	497-8116-1-ND	3.3mW at 3.3V Supply Audio Power Amp*	8-MSOP	1.00	.90	.72
TS4902IST	497-8116-2-ND	3.3mW at 3.3V Supply Audio Power Amp*	8-MSOP	1472.00/4,000		
TS4909IQT	497-5992-1-ND	150mW, Dual Stereo Headphone Amp*	10-DFN	1.20	1.08	.86
TS4909IQT	497-5992-2-ND	150mW, Dual Stereo Headphone Amp*	10-DFN	1323.00/3,000		
TS4956EIJT	497-5268-1-ND	Stereo Audio Amp System*	18-FlipChip	3.45	3.04	2.58
TS4956EIJT	497-5268-2-ND	Stereo Audio Amp System*	18-FlipChip	6280.00/5,000		
TS4961TIQT	497-8388-1-ND	Mono Class D Audio Power Amp*	16-QFN	2.45	2.10	1.72
TS4961TIQT	497-8388-2-ND	Mono Class D Audio Power Amp*	16-QFN	3780.00/4,000		
TS4962IQT	497-5993-1-ND	2.8W Filter Free Mono Class D Audio Power Amp*	8-DFN	2.10	1.80	1.47
TS4962IQT	497-5993-2-ND	2.8W Filter Free Mono Class D Audio Power Amp*	8-DFN	2427.00/3,000		
TS4962MEIJT	497-4986-1-ND	3W Filter Free Class D Audio Power Amp	FlipChip	1.52	1.36	1.08
TS4962MEIJT	497-4986-2-ND	3W Filter Free Class D Audio Power Amp	FlipChip	3070.00/5,000		
TS4974IQT	497-5994-1-ND	1W Differential Audio Power Amp*	10-DFN	2.39	2.05	1.68
TS4974IQT	497-5994-2-ND	1W Differential Audio Power Amp*	10-DFN	2766.00/3,000		
TS4975EIJT	497-5199-1-ND	Stereo Headphone Drive Amp*	12-FlipChip	2.23	1.91	1.56
TS4975EIJT	497-5199-2-ND	Stereo Headphone Drive Amp*	12-FlipChip	4600.00/5,000		
TS4984IQT	497-6036-1-ND	2x1W Stereo Audio Power Amp*	16-TQFN	2.13	1.83	1.50
TS4984IQT	497-6036-2-ND	2x1W Stereo Audio Power Amp*	16-TQFN	2466.00/3,000		
TS4990IDT	497-8117-1-ND	1.2W Audio Power Amp*	8-SOIC	1.16	1.04	.83
TS4990IDT	497-8117-2-ND	1.2W Audio Power Amp*	8-SOIC	1067.50/2,500		
TS4990IQT	497-5200-1-ND	1.2W Audio Power Amp*	8-DFN	1.98	1.71	1.39
TS4990IQT	497-5200-2-ND	1.2W Audio Power Amp*	8-DFN	2295.00/3,000		
TS4990IST	497-4451-1-ND	1.2W Audio Power Amp	8-MSOP	1.16	1.04	.83
TS4990IST	497-4451-2-ND	1.2W Audio Power Amp	8-MSOP	1708.00/4,000		
TS4994IST	497-4452-1-ND	1.2W Diff. Input Audio Power Amp	8-MSOP	3.01	2.59	2.11
TS4994IST	497-4452-2-ND	1.2W Diff. Input Audio Power Amp	8-MSOP	4648.00/4,000		
TS4995EIJT	497-6101-1-ND	1.2W Diff. Input Audio Power Amp*	9-FlipChip	1.28	1.15	.91
TS4995EIJT	497-6101-2-ND	1.2W Diff. Input Audio Power Amp*	9-FlipChip	2235.00/5,000		
TS4997IQT	497-5995-1-ND	2x1W Diff. Audio Power Amp*	16-QFN	3.53	3.11	2.64
TS4997IQT	497-5995-2-ND	2x1W Diff. Audio Power Amp*	16-QFN	5994.00/4,500		
TS4998IQT	497-6842-1-ND	2x1W Diff. Input Stereo Audio Amp*	16-QFN	2.98	2.55	2.09
TS4998IQT	497-6842-2-ND	2x1W Diff. Input Stereo Audio Amp*	16-QFN	5170.50/4,500		

APPLICATION SPECIFIC FOR AUTOMOTIVE

STMicroelectronics **Digi-Reel®**

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
E-L9935013TR	497-10346-1-ND	2-Phase Stepper Motor Driver* ***NEW!***	20-PowerSO	8.22	7.45	6.21
E-L9935013TR	497-10346-2-ND	2-Phase Stepper Motor Driver* ***NEW!***	20-PowerSO	2884.20/600		
E-TDA7375V	497-10175-5-ND	2x35W Dual/Quad Audio Power Amp* ***NEW!***	15-Multiwatt	6.38	5.75	4.73
E-TDA7400DTR	497-5050-1-ND	Advance Car Signal Processor*	28-SOIC	9.52	8.62	7.19
E-TDA7400DTR	497-5050-2-ND	Advance Car Signal Processor*	28-SOIC	5913.00/1,000		
L484D1013TR	497-3628-1-ND	Magnetic Pickup Ignition Controller	16-SOIC	5.47	4.93	4.02
L484D1013TR	497-3628-2-ND	Magnetic Pickup Ignition Controller	16-SOIC	6065.00/2,500		
L4925PD	497-3912-5-ND	5V, Very LDO Voltage Regulator	20-PowerSO	4.03	3.60	2.95
L4925PD013TR	497-1152-1-ND	5V, Very LDO Voltage Regulator	20-PowerSO	4.32	3.89	3.17
L4925PD013TR	497-1152-2-ND	5V, Very LDO Voltage Regulator	20-PowerSO	1433.40/600		
L4936E	497-3913-5-ND	Dual Advanced Voltage Regulator	11-Multiwatt	6.58	6.13	4.77
L4938E	497-3355-5-ND	Advanced Voltage Regulator	16-Dip	4.12	3.69	3.02
L4938EPD13TR	497-3915-1-ND	Advanced Voltage Regulator	20-PowerSO	6.34	5.71	4.66
L4938EPD13TR	497-3915-2-ND	Advanced Voltage Regulator	20-PowerSO	2105.40/600		
L4938ND013TR	497-3916-1-ND	Dual Multifunction Voltage Regulator	20-SOIC	3.61	3.25	2.65
L4938NPD013TR	497-3917-1-ND	Dual Multifunction Voltage Regulator	20-PowerSO	6.42	5.79	4.72
L4938NPD013TR	497-3917-2-ND	Dual Multifunction Voltage Regulator	20-PowerSO	2132.40/600		
L4947PD	497-1405-5-ND	5V, 0.5A LDO Reg. with Reset	20-PowerSO	3.51	3.14	2.57
L4949E	497-3631-ND	Multifunction Very LDO Voltage Reg.	8-Mini Dip	1.62	1.44	1.14
L4949ED013TR	497-3632-1-ND	Multifunction Very LDO Voltage Reg.	8-SOIC	1.37	1.23	.98
L4949ED013TR	497-3632-2-ND	Multifunction Very LDO Voltage Reg.	8-SOIC	1262.50/2,500		
L4949EP013TR	497-3633-1-ND	Multifunction Very LDO Voltage Reg.	20-SOIC	1.89	1.69	1.35
L4949EP013TR	497-3633-2-ND	Multifunction Very LDO Voltage Reg.	20-SOIC	746.00/1,000		
L9333MD-TR	497-3923-1-ND	Quad Low Side Driver	20-SOIC	3.40	3.06	2.50
L9333MD-TR	497-3923-2-ND	Quad Low Side Driver	20-SOIC	1586.00/1,000		
L9337MD/TR	497-3924-1-ND	Triple Low Side Driver	20-SOIC	4.12	3.71	3.02
L9337MD/TR	497-3924-2-ND	Triple Low Side Driver	20-SOIC	1921.00/1,000		
L9338MD	497-3657-5-ND	Quad Low Side Driver	20-SOIC	3.84	3.43	2.82
L9338MD/TR	497-3657-1-ND	Quad Low Side Driver	20-SOIC	4.12	3.71	3.02
L9338MD/TR	497-3657-2-ND	Quad Low Side Driver	20-SOIC	1921.00/1,000		
L9339-TR	497-3925-1-ND	Quad Low Side Driver	20-SOIC	3.97	3.58	2.92
L9339MD-TR	497-3926-1-ND	Quad Low Side Driver	20-SOIC	3.97	3.58	2.92
L9339MD-TR	497-3926-2-ND	Quad Low Side Driver	20-SOIC	1854.00/1,000		
L9386MD	497-3928-5-ND	Dual Intelligent Power Low Side Switch	20-SOIC	4.70	4.38	3.41
L9613B013TR	497-3929-1-ND	Data Interface	8-SOIC	2.08	1.79	1.46
L9613B013TR	497-3929-2-ND	Data Interface	8-SOIC	2005.00/2,500		
L9615D013TR	497-3658-1-ND	CAN Bus Transceiver	8-SOIC	2.31	1.98	1.62
L9615D013TR	497-3658-2-ND	CAN Bus Transceiver	8-SOIC	2227.50/2,500		
L9616-TR	497-3930-1-ND	High Speed CAN Bus Transceiver	8-SOIC	2.31	1.98	1.62
L9616-TR	497-3930-2-ND	High Speed CAN Bus Transceiver	8-SOIC	2227.50/2,500		
L9638D013TR	497-3931-1-ND	LIN Bus Transceiver	8-SOIC	1.83	1.57	1.29
L9638D013TR	497-3931-2-ND	LIN Bus Transceiver	8-SOIC	1765.00/2,500		
L9651	497-3932-5-ND	Smart Quad Switch	20-PowerSO	7.09	6.39	5.25
L9700D013TR	497-3372-1-ND	Hex Precision Limiter	8-SOIC	3.80	3.43	2.79
L9700D013TR	497-3372-2-ND	Hex Precision Limiter	8-SOIC	4212.50/2,500		
L9820D013TR	497-3934-1-ND	High Side Driver	8-SOIC	2.44	2.10	1.71
L9820D013TR	497-3934-2-ND	High Side Driver	8-SOIC	2352.50/2,500		
L9822EPD013TR	497-3660-1-ND	Octal Serial Solenoid Driver	20-PowerSO	10.52	9.53	7.95
L9822EPD013TR	497-3660-2-ND	Octal Serial Solenoid Driver	20-PowerSO	3693.00/600		
L9825TR	497-3936-1-ND	Octal Low Side Driver Circuit for Automotive Applications	20-PowerSO	6.89	6.24	5.20
L9825TR	497-3936-2-ND	Octal Low Side Driver Circuit for Automotive Applications	20-PowerSO	2418.00/600		
L9903TR	497-3937-1-ND	Motor Bridge Controller	20-SOIC	6.73	6.06	4.94
L9903TR	497-3937-2-ND	Motor Bridge Controller	20-SOIC	3142.00/1,000		
L9997ND013TR	497-3661-1-ND	Dual Half Bridge Driver	20-SOIC	3.20	2.74	2.24

APPLICATION SPECIFIC FOR AUTOMOTIVE

STMicroelectronics **Digi-Reel®** (Cont.)

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L9997ND013TR	497-3661-2-ND	Dual Half Bridge Driver	20-SOIC	1324.00/1,000		
TDA7256	497-2169-5-ND	30W, Bridge Car Radio Amp	11-Multiwatt	4.22	3.77	3.09
TDA7338D013TR	497-3971-1-ND	Stereo Decoder	20-SOIC	5.43	4.92	4.10
TDA7338D013TR	497-3971-2-ND	Stereo Decoder	20-SOIC	3187.50/1,000		
TDA7350A	497-3972-5-ND	22W Bridge Stereo Amp	11-Multiwatt	3.60	3.22	2.64
TDA7360	497-3973-5-ND	22W Bridge/Stereo Audio Amp	11V-Multiwatt	3.70	3.30	2.71
TDA7385	497-2174-5-ND	4x30W Quad Bridge Car Radio Amp	25-Flexiwatt	8.50	7.65	6.29
TDA7386	497-2175-5-ND	4x40W Quad Bridge Car Radio Amp	25-Flexiwatt	16.94	15.40	13.09
TDA7393	497-3976-5-ND	Dual Bridge Car Radio Amp	15-Multiwatt	10.05	9.05	7.44
TDA7400DTR	497-3977-1-ND	Advance Car Signal Processor	28-SOIC	9.73	7.12	6.27
TDA7407	497-3979-ND	Advance Car Signal Processor	44-TQFP	11.14	10.03	8.25
TDA7454	497-2179-5-ND	4x35W High Efficiency Quad Bridge Car Radio Amp	25-Flexiwatt	16.63	15.12	12.85
TDA7462D013TR	497-3673-1-ND	Dual Audio Processor with Compander	28-SOIC	7.06	6.40	5.33
TDA7560	497-2181-5-ND	4x45W Quad Bridge Car Radio Amp	25-Flexiwatt	12.51	12.03	9.14
TDA7561	497-2182-5-ND	Multifunction Quad Power Amp	25-Flexiwatt	12.90	11.73	9.97
VN450P13TR	497-4493-1-ND	3-Channel High Side SSR	20-PowerSO	10.35	9.37	7.81
VN450P13TR	497-4493-2-ND	3-Channel High Side SSR	20-PowerSO	3630.60/600		
VN610SP13TR	497-3291-1-ND	45A, Single Channel High Side SSR	10-PowerSO	7.16	6.45	5.25
VN610SP13TR	497-3291-2-ND	45A, Single Channel High Side SSR	10-PowerSO	2376.60/600		
VN750	497-2707-5-ND	6A, High Side Driver	Pentawatt	3.08	2.78	2.24
VN750-B5	497-2701-5-ND	6A, High Side Driver	P2-PAK	3.01	2.73	2.19
VN750PT	497-3292-5-ND	6A, High Side Driver	P-PAK	2.61	2.36	1.90
VN750S	497-3293-5-ND	6A, High Side Driver	8-SOIC	2.07	1.88	1.51
VN800PT	497-3294-5-ND	0.7A, High Side Driver	P-PAK	2.03	1.84	1.48
VN800S13TR	497-3295-1-ND	0.7A, High Side Driver	8-SOIC	1.91	1.65	1.35
VN800S13TR	497-3295-2-ND	0.7A, High Side Driver	8-SOIC	1845.00/2,500		
VN820	497-3296-5-ND	9A, High Side Driver	Pentawatt	3.23	2.89	2.37
VN820-B513TR	497-3297-1-ND	9A, High Side Driver	P2-PAK	3.34	3.01	2.46
VN820-B513TR	497-3297-2-ND	9A, High Side Driver	P2-PAK	1560.00/1,000		
VN820SP13TR	497-3298-1-ND	9A, High Side Driver	10-PowerSO	3.83	3.45	2.81
VN820SP13TR	497-3298-2-ND	9A, High Side Driver	10-PowerSO	1272.00/600		
VN920	497-2679-5-ND	30A, Single Channel High Side SSR	Pentawatt	4.09	3.65	3.00
VN920-B5	497-2678-5-ND	30A, Single Channel High Side SSR	P2-PAK	4.09	3.65	3.00
VN920SP13TR	497-2506-1-ND	30A, Single Channel High Side SSR	10-PowerSO	4.86	4.38	3.57
VN920SP13TR	497-2506-2-ND	30A, Single Channel High Side SSR	10-PowerSO	1614.60/600		
VNB20N07	497-2794-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.52	3.14	2.58
VNB20N0713TR	497-2794-1-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.77	3.40	2.77
VNB20N0713TR	497-2794-2-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	1758.00/1,000		
VNB35NV04	497-2671-5-ND	40V, 30A, Fully Protected Pwr Mosfet	D2-PAK	6.49	5.84	4.80
VND05B(012Y)	497-3300-5-ND	2-Ch. High Side Smart Power SSR	7-Heptawatt	3.25	2.91	2.39
VND05BSP	497-3089-5-ND	ISO High Side Smart Power SSR	10-PowerSO	3.86	3.45	2.83
VND05BSP13TR	497-3299-1-ND	ISO High Side Smart Power SSR	10-PowerSO	4.13	3.73	3.04
VND05BSP13TR	497-3299-2-ND	ISO High Side Smart Power SSR	10-PowerSO	1372.20/600		
VND3NV0413TR	497-3301-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1.79	1.53	1.25
VND3NV0413TR	497-3301-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1722.50/2,500		
VND5N07	497-2481-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.90	1.72	1.38
VND5N0713TR	497-2481-1-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	2.14	1.84	1.50
VND5N0713TR	497-2481-2-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	2065.00/2,500		
VND10N06	497-2767-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	D-PAK	1.78	1.61	1.30
VND600SP	497-2711-5-ND	36V, 25A, Double Ch. High Side SSR	10-PowerSO	6.07	5.42	4.45
VND7N0413TR	497-3304-1-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	2.04	1.75	1.43
VND7N0413TR	497-3304-2-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1967.50/2,500		
VND7NV04	497-2669-5-ND	40V, 6A, Fully Auto Protected Power Mosfet	D-PAK	1.81	1.64	1.32
VND600SP13TR	497-3303-1-ND	36V, 25A, Double Ch. High Side SSR	10-PowerSO	6.50	5.86	4.77
VND600SP13TR	497-3303-2-ND	36V, 25A, Double Ch. High Side SSR	10-PowerSO	2159.40/600		
VND810SP	497-3305-5-ND	36V, 3.5A, Double Ch. High Side Driver	10-PowerSO	3.86	3.45	2.83
VND830ASP13TR	497-4499-1-ND	2-Channel High Side SSR	10-PowerSO	5.78	5.20	4.24
VND830ASP13TR	497-4499-2-ND	2-Channel High Side SSR	10-PowerSO	1917.60/600		
VND830SP	497-2709-5-ND	36V, 6A, Double Ch. High Side Dvr.	10-PowerSO	5.45	4.87	3.99
VND830SP13TR	497-3306-1-ND	36V, 6A, Double Ch. High Side Dvr.	10-PowerSO	5.84	5.26	4.29
VND830SP13TR	497-3306-2-ND	36V, 6A, Double Channel High Side Dvr.	10-PowerSO	1938.00/600		
VND920	497-2708-5-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	7.32	6.59	5.42
VND92013TR	497-3307-1-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	7.76	7.03	5.86
VND92013TR	497-3307-2-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	3951.00/1,000		
VNH2SP30	497-4500-5-ND	H-Bridge Motor Driver	—	11.06	10.06	8.55
VNH2SP30TR-E	497-4501-1-ND	H-Bridge Motor Driver	—	11.56	10.56	9.05
VNH2SP30TR-E	497-4501-2-ND	H-Bridge Motor Driver	—	6685.00/1,000		
VNH3SP30TR-E	497-3565-1-ND	Fully Integrated H-Bridge Motor Driver	30-MPSO	10.92	9.89	8.25
VNH3SP30TR-E	497-3565-2-ND	Fully Integrated H-Bridge Motor Driver	30-MPSO	5563.00/1,000		
VNN1NV0413TR	497-2517-1-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	1.32	1.18	.94
VNN1NV0413TR	497-2517-2-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	521.00/1,000		
VNN3NV0413TR	497-3309-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	1.59	1.43	1.14
VNN3NV0413TR	497-3309-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	629.00/1,000		
VNN7NV0413TR	497-2519-1-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	1.79	1.53	1.25
VNN7NV0413TR	497-2519-2-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	740.00/1,000		
VNQ600	497-3314-5-ND	36V, 25A, Quad Channel High Side SSR	28-SOIC	9.22	8.30	6.82
VNQ660SP	497-2700-5-ND	36V, 6A, Quad Channel High Side SSR	10-PowerSO	8.13	7.32	6.02
VNQ660SP13TR	497-3315-1-ND	36V, 6A, Quad Channel High Side SSR	10-PowerSO	8.62	7.81	6.51
VNQ660SP13TR	497-3315-2-ND	36V, 6A, Quad Channel High Side SSR	10-PowerSO	3025.20/600		
VNQ810	497-2703-5-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	5.39	4.82	3.95
VNQ830	497-2702-5-ND	36V, 6A, Quad Ch. High Side Driver	28-SOIC	6.78	6.10	5.02
VNQ81013TR	497-3316-1-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	5.78	5.20	4.24
VNQ81013TR	497-3316-2-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	2695.00/1,000		
VNS14NV04	497-3317-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2.15	1.94	1.56

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

APPLICATION SPECIFIC FOR AUTOMOTIVE

STMicroelectronics Digi-Reel® (Cont.)

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
VNS14NV0413TR	497-3317-1-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2.16	1.85	1.51
VNS1NV04	497-2672-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.21	1.08	.86
VNS1NV04D-E	497-5787-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel*	8-SOIC	1.54	1.37	1.08
VNS3NV04D13TR	497-3318-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	2.30	1.97	1.61
VNS3NV04D13TR	497-3318-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	2215.00/2,500		

APPLICATION SPECIFIC FOR COMMUNICATION AND CONNECTIVITY

STMicroelectronics Digi-Reel®

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
E-STE100P	497-2143-ND	3.3V, 10/100 Fast Ethernet Xcvr.*	64-TQFP	9.63	8.67	7.13
ST7538QTR	497-5526-1-ND	Power Line FSK Transceiver*	44-TQFP	13.04	11.91	10.21
ST7538QTR	497-5526-2-ND	Power Line FSK Transceiver*	44-TQFP	7541.00/1,000		
ST7540TR	497-5528-1-ND	Power Line FSK Transceiver*	28-TSSOP	12.20	11.14	9.55
ST7540TR	497-5528-2-ND	Power Line FSK Transceiver*	28-TSSOP	16902.50/2,500		
TSH511CFT	497-8152-1-ND	Hi-Fi Stereo/Mono Infrared Rcvr. Stereo Sub-Carrier Demodulator*	44-TQFP	5.67	5.11	4.16
TSH511CFT	497-8152-2-ND	Hi-Fi Stereo/Mono Infrared Recvr. Stereo Sub-Carrier Demodulator*	44-TQFP	2646.00/1,000		
TSH512CF	497-2323-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Generator	44-TQFP	3.89	3.48	2.86
TSH512CFT	497-8153-1-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Gen.*	44-TQFP	5.67	5.11	4.16
TSH512CFT	497-8153-2-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Gen.*	44-TQFP	2646.00/1,000		
TSH690IDT	497-8350-1-ND	40MHz to 1GHz Amp*	8-SOIC	2.06	1.77	1.45
TSH690IDT	497-8350-2-ND	40MHz to 1GHz Amp*	8-SOIC	1985.00/2,500		
VNV35N07	497-3319-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	10-PowerSO	6.13	5.48	4.49

APPLICATION SPECIFIC FOR DISPLAY

STMicroelectronics Digi-Reel®

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TSL1014IFT	497-4774-1-ND	14+1 Ch. Buffer for TFT-LCD Panels	48-TQFP	4.41	3.97	3.24
TSL1014IFT	497-4774-2-ND	14+1 Ch. Buffer for TFT-LCD Panels	48-TQFP	4692.00/2,400		
STVM100DS6F	497-9082-1-ND	I^2C LCD VCOM Calibrator* ***NEW!***	8-TSSOP	2.68	2.31	1.88
STVM100DS6F	497-9082-2-ND	I^2C LCD VCOM Calibrator* ***NEW!***	8-TSSOP	4140.00/4,000		

APPLICATION SPECIFIC FOR LIGHTING

STMicroelectronics Digi-Reel®

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
E-L6571BD013TR	497-4586-1-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3.31	2.84	2.32
E-L6571BD013TR	497-4586-2-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3190.00/2,500		
L6382D	497-4802-5-ND	High Voltage Half Bridge Driver	20-SOIC	3.15	2.81	2.31
L6569	497-4217-5-ND	High Voltage Half Bridge Driver*	8-Dip	3.09	2.80	2.25
L6569A	497-3654-ND	HV Half Bridge Driver with Oscillator	8-MiniDip	3.09	2.80	2.25
L6569AD	497-1439-5-ND	HV Half Bridge Driver with Oscillator	8-SOIC	3.09	2.80	2.25
L6569AD013TR	497-5359-1-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3.56	3.14	2.66
L6569AD013TR	497-5359-2-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3367.50/2,500		
L6569D	497-5796-5-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3.09	2.80	2.25
L6571A	497-5360-5-ND	HV Half Bridge Driver with Oscillator*	8-MiniDip	2.44	2.21	1.78
L6571AD	497-5361-5-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	2.25	2.03	1.64
L6571AD013TR	497-3367-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.33	2.00	1.63
L6571AD013TR	497-3367-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2245.00/2,500		
L6571BD013TR	497-3655-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.76	1.79	1.37
L6574	497-7252-5-ND	CFL/TL Ballast Driver Preheat and Dimming*	16-Dip	2.93	2.65	2.13
L6574D013TR	497-4018-1-ND	CFL/TL Ballast Dvr. Preheat and Dimming	16-SOIC	3.31	2.84	2.32
L6574D013TR	497-4018-2-ND	CFL/TL Ballast Dvr. Preheat and Dimming	16-SOIC	3190.00/2,500		
L6585DETR	497-8822-1-ND	Combo IC for PFC/Ballast Control* ***NEW!***	20-SOIC	3.47	3.12	2.55
L6585DETR	497-8822-2-ND	Combo IC for PFC/Ballast Control* ***NEW!***	20-SOIC	1617.00/1,000		
L6585DTR	497-6102-1-ND	Combo IC for PFC/Ballast Control*	20-SOIC	3.28	2.95	2.41
L6585DTR	497-6102-2-ND	Combo IC for PFC/Ballast Control*	20-SOIC	1529.00/1,000		

APPLICATION SPECIFIC FOR MOTOR CONTROL

STMicroelectronics Digi-Reel®

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
E-L6201PSTR	497-4568-1-ND	DMOS Full Bridge Driver*	20-PowerSO	8.30	7.52	6.27
E-L6219DS013TR	497-3647-1-ND	Stepper Motor Driver* ***NEW!***	24-SOIC	4.13	3.72	3.03
E-L6219DS013TR	497-3647-2-ND	Stepper Motor Driver* ***NEW!***	24-SOIC	1925.00/1,000		
E-L6219R013TR	497-8935-1-ND	Stepper Motor Driver* ***NEW!***	24-SOIC	5.28	4.76	3.88
E-L6219R013TR	497-8935-2-ND	Stepper Motor Driver* ***NEW!***	24-SOIC	2464.00/1,000		
E-PBL3717A	497-1966-5-ND	Stepper Motor Driver*	16-Power Dip	2.73	2.47	1.98
L165V	497-2933-5-ND	3A Power Op Amp	5-Pentawatt	1.71	1.54	1.24
L272D	497-1386-5-ND	Dual Power Op Amp	16-SOIC	2.05	1.85	1.49
L272M	497-1387-5-ND	Dual Power Op Amp	8-Mini Dip	2.39	2.16	1.74
L293B	497-1389-5-ND	Push-Pull 4-Channel Driver	16-Dip	3.89	3.48	2.85
L293D	497-2936-5-ND	Push-Pull 4-Channel Driver	16-Dip	4.12	3.68	3.02
L293DD013TR	497-2937-1-ND	Push-Pull 4-Channel Driver*	20-SOIC	3.78	3.41	2.78
L293DD013TR	497-2937-2-ND	Push-Pull 4-Channel Driver*	20-SOIC	1764.00/1,000		
L293E	497-3622-ND	Push-Pull 4 Channel Driver	20-Power Dip	6.32	5.65	4.63
L297/1	497-1394-5-ND	Stepper Motor Controller	20-Dip	11.29	10.16	8.36
L297D013TR	497-3623-1-ND	Stepper Motor Controller	20-SOIC	11.41	10.34	8.61

APPLICATION SPECIFIC FOR MOTOR CONTROL

STMicroelectronics Digi-Reel® (Cont.)

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L297D013TR	497-3623-2-ND	Stepper Motor Controller	20-SOIC	5812.00/1,000		
L298HN	497-2940-5-ND	Dual Full-Bridge Driver	15-Multiwatt	5.00	4.47	3.66
L298N	497-1395-5-ND	Dual Full-Bridge Driver*	15-Multiwatt	4.67	4.17	3.42
L298P013TR	497-3624-1-ND	Dual Full-Bridge Driver	20-PowerSO	5.83	5.25	4.28
L298P013TR	497-3624-2-ND	Dual Full-Bridge Driver	20-PowerSO	1935.00/600		
L2293QTR	497-8493-1-ND	Push-Pull 4-Ch. Driver w/Diodes*	32-VFQFPN	7.09	6.38	5.20
L2293QTR	497-8493-2-ND	Push-Pull 4-Ch. Driver w/Diodes*	32-VFQFPN	9429.00/3,000		
L2720D13TR	497-3909-1-ND	LDO Dual Power Op Amp	16-SOIC	1.51	1.30	1.06
L2720D13TR	497-3909-2-ND	LDO Dual Power Op Amp	16-SOIC	1562.50/2,500		
L2722	497-1384-5-ND	LDO Dual Power Op Amp	8-Mini Dip	1.88	1.70	1.37
L2726013TR	497-3621-1-ND	Low Drop Dual Power Op Amp	14-SOIC	2.31	1.98	1.62
L2726013TR	497-3621-2-ND	Low Drop Dual Power Op Amp	14-SOIC	957.00/1,000		
L6201013TR	497-3640-1-ND	DMOS Full Bridge Driver	20-SOIC	10.35	9.38	7.82
L6201013TR	497-3640-2-ND	DMOS Full Bridge Driver	20-SOIC	5273.00/1,000		
L6201PSTR	497-3641-1-ND	DMOS Full Bridge Driver*	20-PowerSO	10.63	9.63	8.03
L6201PSTR	497-3641-2-ND	DMOS Full Bridge Driver*	20-PowerSO	3730.20/600		
L6202	497-1420-5-ND	DMOS Full Bridge Driver*	18-Power Dip	9.85	8.87	7.29
L6203	497-1421-5-ND	DMOS Full Bridge Driver*	Multiwatt	11.32	10.29	8.75
L6205D013TR	497-3998-1-ND	DMOS Dual Full Bridge Driver	20-SOIC	13.16	11.93	9.94
L6205D013TR	497-3998-2-ND	DMOS Dual Full Bridge Driver	20-SOIC	6705.00/1,000		
L6205N	497-4209-5-ND	DMOS Dual Full Bridge Driver	20-Power Dip	12.42	11.18	9.19
L6205PD013TR	497-3642-1-ND	DMOS Dual Full Bridge Driver*	20-PowerSO	12.20	11.14	9.55
L6205PD013TR	497-3642-2-ND	DMOS Dual Full Bridge Driver*	20-PowerSO	4613.40/600		
L6206D013TR	497-3999-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	11.59	10.59	9.08
L6206D013TR	497-3999-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	6703.00/1,000		
L6206N	497-4211-5-ND	DMOS Dual Full Bridge Driver	24-Power Dip	11.32	10.29	8.75
L6206PD013TR	497-3643-1-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	13.65	12.46	10.68
L6206PD013TR	497-3643-2-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	5161.80/600		
L6207D013TR	497-3644-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	12.80	11.69	10.02
L6207D013TR	497-3644-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	7401.00/1,000		
L6207N	497-3645-ND	DMOS Dual Full Bridge Driver*	24-PowerDip	12.59	11.45	9.73
L6207PD013TR	497-4000-1-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	13.77	12.57	10.78
L6207PD013TR	497-4000-2-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	5206.80/600		
L6208D013TR	497-4001-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	14.85	13.57	11.63
L6208D013TR	497-4001-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	8589.00/1,000		
L6208N	497-5342-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-PowerSO	14.21	12.92	10.98
L6208PD013TR	497-4214-1-ND	DMOS Driver for Bipolar Stepper Motor	36-PowerSO	17.17	15.68	13.44
L6208PD013TR	497-4214-2-ND	DMOS Driver for Bipolar Stepper Motor	36-PowerSO	6495.60/600		
L6219	497-1426-5-ND	Stepper Motor Driver* ***NEW!***	24-PDIP	3.67	3.42	2.66
L6219R013TR	497-4003-1-ND	Stepper Motor Driver	24-SOIC	3.93	3.54	2.88
L6225DTR	497-5343-1-ND	DMOS Dual Full Bridge Driver*	20-SOIC	8.07	7.31	6.09
L6225DTR	497-5343-2-ND	DMOS Dual Full Bridge Driver*	20-SOIC	4111.00/1,000		
L6225PDTR	497-5345-1-ND	DMOS Dual Full Bridge Driver*	20-PowerSO	11.04	10.01	7.94
L6225PDTR	497-5345-2-ND	DMOS Dual Full Bridge Driver*	20-PowerSO	3369.60/600		
L6226DTR	497-3362-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	8.90	8.07	6.72
L6226DTR	497-3362-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	4536.00/1,000		
L6226N	497-5346-5-ND	DMOS Dual Full Bridge Driver*	24-Power Dip	8.53	7.68	6.32
L6226PDTR	497-5347-1-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	10.44	9.46	7.88
L6226PDTR	497-5347-2-ND	DMOS Dual Full Bridge Driver*	36-PowerSO	3662.40/600		
L6226QTR	497-6862-1-ND	DMOS Dual Full Bridge Driver*	32-VFQFPN	7.56	6.81	5.55
L6226QTR	497-6862-2-ND	DMOS Dual Full Bridge Driver*	32-VFQFPN	10056.00/3,000		
L6227DTR	497-3363-1-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	9.74	8.82	7.35
L6227DTR	497-3363-2-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	4961.00/1,000		
L6227N	497-3648-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	24-Dip	9.19	8.27	6.80
L6227PDTR	497-4006-1-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-PowerSO	10.85	9.83	8.19
L6227PDTR	497-4006-2-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-PowerSO	3808.20/600		
L6227QTR	497-6863-1-ND	DMOS Dual Full Bridge Driver with PWM Current Controller*	32-VFQFPN	6.96	6.30	5.25
L6227QTR	497-6863-2-ND	DMOS Dual Full Bridge Driver with PWM Current Controller*	32-VFQFPN	10239.00/3,000		
L6228DTR	497-3364-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	11.27	10.21	8.51
L6228DTR	497-3364-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	5742.00/1,000		
L6228N	497-5350-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-Power Dip	10.76	9.69	7.97
L6228PDTR	497-4007-1-ND	DMOS Driver for Bipolar Stepper Motor	36-PowerSO	13.13	11.90	9.92
L6228PDTR	497-4007-2-ND	DMOS Driver for Bipolar Stepper Motor	36-PowerSO	4609.20/600		
L6228QTR	497-6864-1-ND	DMOS Driver for Bipolar Stepper Motor*	32-VFQFPN	7.23	6.56	5.46
L6228QTR	497-6864-2-ND	DMOS Driver for Bipolar Stepper Motor*	32-VFQFPN	10647.00/3,000		
L6229DTR	497-4008-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	12.52	11.34	9.45
L6229DTR	497-4008-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	6379.00/1,000		
L6229N	497-5840-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	24-Power Dip	11.95	10.76	8.84
L6229PD	497-5841-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	36-PowerSO	11.27	10.25	8.72
L6229PDTR	497-4215-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-PowerSO	11.79	10.76	9.23
L6229PDTR	497-4215-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-PowerSO	4458.00/600		
L6229QTR	497-8495-1-ND	DMOS Driver for 3-Phase Brushless DC Motor*	32-VFQFPN	8.90	8.07	6.72
L6229QTR	497-8495-2-ND	DMOS Driver for 3-Phase Brushless DC Motor*	32-VFQFPN	13104.00/3,000		
L6234	497-6703-5-ND	3-Phase Motor Driver*	20-Power Dip	11.68	10.52	8.65
L6234PD013TR	497-5352-1-ND	3-Phase Motor Driver*	20-PowerSO	11.59	10.59	9.08
L6234PD013TR	497-5352-2-ND	3-Phase Motor Driver*	20-PowerSO	4384.80/600		
L6235D	497-4009-5-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	14.95	13.59	11.55
L6235D013TR	497-4009-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	15.63	14.27	12.23
L6235D013TR	497-4009-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	9036.00/1,000		
L6235N	497-5353-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	24-Power Dip	14.95	13.59	11.55
L6235PD013TR	497-4010-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-PowerSO	18.23	16.65	14.28
L6235PD013TR	497-4010-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-PowerSO	6897.60/600		

*** RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

APPLICATION SPECIFIC FOR MOTOR CONTROL

(Cont.)

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L6506	497-2945-5-ND	Current Controller for Stepping Motor	18-Dip	5.29	4.73	3.88
L6506D013TR	497-3652-1-ND	Current Controller for Stepping Motor	20-SOIC	6.05	5.45	4.44
L6506D013TR	497-3652-2-ND	Current Controller for Stepping Motor	20-SOIC	2822.00/1,000		
L9925	497-3938-5-ND	DMOS Dual Full Bridge Driver	28-SOIC	6.77	6.09	5.01
SPMD150STP	497-10065-ND	1.5A Stepper Motor Driver Module* ***NEW!***	—	51.07	—	—
SPMD250STP	497-8416-ND	2.5A Stepper Motor Driver Module*	—	67.65	—	—

CLOCKS AND TIMING CIRCUITS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ISP1102BS-T	568-1876-1-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	1.05	.88	.70
ISP1102BS-T	568-1876-2-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	2677.50/6,000		
ISP1102WTS	568-3143-1-ND	Advanced 12-Bit USB Transceiver	16-HBCC	1.20	1.00	.80
ISP1102WTS	568-3143-2-ND	Advanced 12-Bit USB Transceiver	16-HBCC	744.80/1,400		
ISP1104WTS	568-3144-1-ND	Advanced Universal Serial Bus Transceiver	16-HBCC	1.20	1.00	.80
ISP1104WTS	568-3144-2-ND	Advanced Universal Serial Bus Transceiver	16-HBCC	744.80/1,400		
ISP1105BSTM	568-1877-1-ND	Advanced 12M-Bit Transceiver	16-HVQFN	1.20	1.00	.80
ISP1105BSTM	568-1877-2-ND	Advanced 12M-Bit Transceiver	16-HVQFN	3060.00/6,000		
ISP1105WTS	568-3145-1-ND	Advanced 12M-Bit Transceiver	16-HBCC	1.20	1.00	.80
ISP1105WTS	568-3145-2-ND	Advanced 12M-Bit Transceiver	16-HBCC	744.80/1,400		
ISP1106WTS	568-3147-1-ND	Embedded 12M-Bit USB Host Cont.	16-HBCC	1.20	1.00	.80
ISP1106WTS	568-3147-2-ND	Embedded 12M-Bit USB Host Cont.	16-HBCC	744.80/1,400		
ISP1109BSFE	568-3148-ND	Universal Serial Bus Transceiver	32-HVQFN	2.25	1.80	1.35
ISP1110VHTS	568-3149-1-ND	Universal Serial Bus Transceiver with UART	16-HBCC	1.14	.95	.76
ISP1110VHTS	568-3149-2-ND	Universal Serial Bus Transceiver with UART	16-HBCC	707.56/1,400		
STCD1020RDG6F	497-8361-1-ND	Multi-Channel Clock Distribution Circuit	8-TDFN	3.49	3.00	2.45
STCD1020RDG6F	497-8361-2-ND	Multi-Channel Clock Distribution Circuit	8-TDFN	4041.00/3,000		
STCD1040RDM6F	497-8280-1-ND	Multi-Channel Clock Distribution Circuit	12-TDFN	3.12	2.81	2.29
STCD1040RDM6F	497-8280-2-ND	Multi-Channel Clock Distribution Circuit	12-TDFN	4149.00/3,000		

EMI FILTERING AND SIGNAL CONDITIONING

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
EMIF01-10005W5	497-3708-1-ND	1 Line EMI Filter*	SOT-323-5	1.16	1.04	.83
EMIF01-10005W5	497-3708-2-ND	1 Line EMI Filter*	SOT-323-5	1281.00/3,000		
EMIF01-1003M3	497-7738-1-ND	1 Line EMI Filter*	SOT-883	1.16	.99	.85
EMIF02-1003M6	497-7739-1-ND	2 Line EMI Filter*	6-Micro QFN	1.10	.99	.79
EMIF02-MIC02F2	497-3782-1-ND	2 Line EMI Filter, ESD Protection	FlipChip	.93	.83	.66
EMIF02-MIC03C2	497-5902-1-ND	2 Line EMI Filter, ESD Protection*	5-FlipChip	.93	.83	.66
EMIF02-MIC03C2	497-5902-2-ND	2 Line EMI Filter, ESD Protection*	5-FlipChip	1995.00/5,000		
EMIF02-USB01F2	497-5333-1-ND	2 Line EMI Filter, ESD Protection*	8-FlipChip	1.20	1.02	.87
EMIF02-USB01F2	497-5333-2-ND	2 Line EMI Filter, ESD Protection*	8-FlipChip	1950.00/5,000		
EMIF02-USB05C2	497-4613-1-ND	2 Line EMI Filter, ESD Protection*	FlipChip	.93	.83	.66
EMIF02-USB05C2	497-4613-2-ND	2 Line EMI Filter, ESD Protection*	FlipChip	1995.00/5,000		
EMIF02-USB05F2	497-6629-1-ND	2 Line EMF Filter, ESD Protection*	8-FlipChip	1.20	1.02	.87
EMIF02-USB05F2	497-6629-2-ND	2 Line EMF Filter, ESD Protection*	8-FlipChip	1950.00/5,000		
EMIF03-SIM01F2	497-3401-1-ND	3 Line EMI Filter, ESD Protection	FlipChip	.90	.81	.64
EMIF03-SIM02C2	497-10290-1-ND	3 Line EMI Filter, ESD Protection* ***NEW!***	FlipChip	.92	.80	.63
EMIF03-SIM02C2	497-10290-2-ND	3 Line EMI Filter, ESD Protection* ***NEW!***	FlipChip	1420.00/5,000		
EMIF04-VID01F2	497-4614-1-ND	4 Line Low Capacitance EMI Filter, ESD Protection*	FlipChip	.77	.70	.55
EMIF04-VID01F2	497-4614-2-ND	4 Line Low Capacitance EMI Filter, ESD Protection*	FlipChip	1665.00/5,000		
EMIF06-1005M12	497-7740-1-ND	6 Line EMI Filter*	12-Micro QFN	1.24	1.11	.89
EMIF06-1005M12	497-7740-2-ND	6 Line EMI Filter*	12-Micro QFN	1368.00/3,000		
EMIF06-1502M12	497-7741-1-ND	6 Line EMI Filter*	12-Micro QFN	1.24	1.11	.89
EMIF06-1502M12	497-7741-2-ND	6 Line EMI Filter*	12-Micro QFN	1368.00/3,000		
EMIF06-MSD01F2	497-5903-1-ND	6 Line EMI Filter, ESD Protection*	16-FlipChip	1.60	1.36	1.16
EMIF06-MSD02N16	497-8751-1-ND	6 Line EMI Filter, ESD Protection* ***NEW!***	16-Micro QFN	2.87	2.46	2.01
EMIF06-MSD02N16	497-8751-2-ND	6 Line EMI Filter, ESD Protection* ***NEW!***	16-Micro QFN	3318.00/3,000		
EMIF06-VID01F2	497-4543-1-ND	6 Line Low Capacitance EMI Filter*	FlipChip	1.08	.97	.77
EMIF06-VID01F2	497-4543-2-ND	6 Line Low Capacitance EMI Filter*	FlipChip	2330.00/5,000		
EMIF08-1005M16	497-7742-1-ND	8 Line EMI Filter*	16-Micro QFN	1.60	1.43	1.14
EMIF08-1005M16	497-7742-2-ND	8 Line EMI Filter*	16-Micro QFN	1764.00/3,000		
EMIF08-1502M16	497-7743-1-ND	8 Line EMI Filter*	16-Micro QFN	1.60	1.43	1.14
EMIF08-1502M16	497-7743-2-ND	8 Line EMI Filter*	16-Micro QFN	1764.00/3,000		
E-ULQ2003A	497-4609-5-ND	Seven Darlington Array*	16-Dip	.77	.69	.54
KBMF01SC6	497-3712-1-ND	EMI Filter/Line Termination*	SOT-23-6	1.84	1.65	1.31
KBMF01SC6	497-3712-2-ND	EMI Filter/Line Termination*	SOT-23-6	2028.00/3,000		
ST1284-01A8	497-2565-5-ND	Single Termination Network*	28-QSOP	3.09	2.80	2.25
USB6B1	497-2727-5-ND	Data Line Protection*	8-SOIC	1.23	1.09	.86
USB6B1RL	497-3281-1-ND	Data Line Protection*	8-SOIC	1.36	1.22	.97
USB6B1RL	497-3281-2-ND	Data Line Protection*	8-SOIC	1250.00/2,500		
USBDF01W5	497-3086-1-ND	EMI Filter and Line Termination	SOT-323-5	.85	.74	.59
USBDF01W5	497-3086-2-ND	EMI Filter and Line Termination	SOT-323-5	843.00/3,000		
USBDF02W5	497-3742-1-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1.44	1.29	1.03
USBDF02W5	497-3742-2-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1587.00/3,000		
USBUF01P6	497-3282-1-ND	EMI Filter/Line Termination	SOT-666	.92	.80	.63
USBUF01P6	497-3282-2-ND	EMI Filter/Line Termination*	SOT-666	915.00/3,000		
USBUF01W6	497-3087-1-ND	EMI Filter and Line Termination	SOT-323-6	1.44	1.29	1.03
USBUF01W6	497-3087-2-ND	EMI Filter and Line Termination	SOT-323-6	1587.00/3,000		
USBUF02W6	497-3743-1-ND	EMI Filter and Line Termination for USB Upstream Ports*	SOT-323-6	.96	.86	.69
USBUF02W6	497-3743-2-ND	EMI Filter and Line Termination for USB Upstream Ports*	SOT-323-6	1059.00/3,000		

EVALUATION BOARDS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DEMOTD350	497-6359-ND	Demo Board for TD350*	—	60.00	—	—
EVAL4971	497-4744-ND	Board for L4971 Step-Down Switching Regulator	—	12.60	—	—
EVAL4973	497-4743-ND	Board for L4973X Step-Down Switching Regulator	—	15.75	—	—
EVAL5945	497-8833-ND	Evaluation Board for L5945* ***NEW!***	—	15.75	—	—
EVAL5945A	497-8364-ND	Evaluation Board for L5945A*	—	15.75	—	—
EVAL5947	497-8365-ND	Evaluation Board for L5947*	—	15.75	—	—
EVAL5947A	497-8366-ND	Evaluation Board for L5947A*	—	15.75	—	—
EVAL5970D	497-4132-ND	Evaluation Board for L5970	—	15.75	—	—
EVAL5972D	497-4741-ND	Board for L5972D DC/DC Converter	—	15.75	—	—
EVAL5973AD	497-4133-ND	Evaluation Board for L5973	—	15.75	—	—
EVAL5973D	497-4134-ND	Evaluation Board for L5973	—	15.75	—	—
EVAL5980	497-6384-ND	Evaluation Board for L5980*	—	15.75	—	—
EVAL5981	497-6385-ND	Evaluation Board for L5981*	—	15.75	—	—
EVAL5983	497-6386-ND	Evaluation Board for L5983*	—	15.75	—	—
EVAL5985	497-6387-ND	Evaluation Board for L5985*	—	15.75	—	—
EVAL5986	497-8367-ND	Evaluation Board for L5986*	—	15.75	—	—
EVAL5986A	497-8368-ND	Evaluation Board for L5986A*	—	15.75	—	—
EVAL5987	497-8369-ND	Evaluation Board for L5987*	—	15.75	—	—
EVAL5987A	497-8370-ND	Evaluation Board for L5987A*	—	15.75	—	—
EVAL6205N	497-5486-ND	Evaluation Board for L6205* ***NEW!***	—	31.50	—	—
EVAL6206PD	497-4135-ND	Evaluation Board for L6206	—	39.38	—	—
EVAL6207N	497-4934-ND	Board for DC Motors or Stepper Motors	—	31.50	—	—
EVAL6208N	497-5488-ND	Evaluation Board for L6208N*	—	47.25	—	—
EVAL6225PD	497-5489-ND	Evaluation Board for L6225PD*	—	47.25	—	—
EVAL6226QR	497-6816-ND	Evaluation Board for L6226Q*	—	45.00	—	—
EVAL6227PD	497-5490-ND	Evaluation Board for L6227PD*	—	55.13	—	—
EVAL6227QR	497-6817-ND	Evaluation Board for L6227Q*	—	60.00	—	—
EVAL6228QR	497-6818-ND	Evaluation Board for L6228Q*	—	60.00	—	—
EVAL6229PD	497-5491-ND	Evaluation Board for L6229PD*	—	63.00	—	—
EVAL6235N	497-4935-ND	Board for Brushless DC Motor	—	31.50	—	—
EVL6562A-LED	497-10420-ND	Evaluation Module for L6562A* ***NEW!***	—	47.25	—	—
EVAL6563-80W	497-5493-ND	Evaluation Board for L6563*	—	39.38	—	—
EVAL6569	497-4738-ND	Board for L6569 Lighting Application	—	15.75	—	—
EVAL6574B	497-3823-ND	Evaluation Board for HF TL Ballast	—	31.50	—	—
EVAL6668-STB	497-5499-ND	Evaluation Board for L6668*	—	55.13	—	—
EVAL6902D	497-4746-ND	Board for L6902D Battery Charger	—	15.75	—	—
EVAL6920DB1	497-5503-ND	Evaluation Board for L6920DB*	—	15.75	—	—
EVAL6924D	497-5504-ND	Evaluation Board for L6924D*	—	15.75	—	—
EVAL6924U	497-8247-ND	Evaluation Board for L6924U*	—	15.75	—	—
EVAL6926D	497-4737-ND	Board for L6926 Step-Down Regulator	—	15.75	—	—
EVAL6928D	497-4745-ND	Evaluation Board for L6928*	—	15.75	—	—
EVAL6928Q1	497-5505-ND	Evaluation Board for L6928Q1* ***NEW!***	—	15.75	—	—
EVAL6932D1.8	497-5507-ND	Evaluation Board for L6932D1.8* ***NEW!***	—	15.75	—	—
EVAL6932D2.5	497-5508-ND	Evaluation Board for L6932D2.5*	—	15.75	—	—
EVALCOMMBOARD	497-5483-ND	Evaluation GP Board for 12Mbps PC*	—	111.72	—	—
EVALED7706	497-6445-ND	Evaluation Board for LED7706*	—	15.75	—	—
EVALPM8800A-HP	497-6366-ND	Evaluation Board for PM8800A*	—	131.25	—	—
EVALPRACTISPIN	497-4138-ND	Evaluation Board PractiSpin	—	47.25	—	—
EVALST7538DUAL	497-5484-ND	Evaluation Board for Power Line Transcvr.*	—	157.50	—	—
EVALST7540-2	497-10163-ND	Eval. Board for Power Line Xcvr.* ***NEW!***	—	157.50	—	—
EVALSTSR30-60W	497-6389-ND	Evaluation Board using L6668/STSR30*	—	69.83	—	—
EVALTSM1052	497-6242-ND	Evaluation Board for TSM1052*	—	15.75	—	—
EVALVIPER17L-7W	497-6447-ND	Evaluation Board for VIPER17L*	—	76.81	—	—
EVL6562A-35WFLB	497-8248-ND	Evaluation Board for L6562AX*	—	83.79	—	—
EVL6562A-400W	497-8249-ND	Evaluation Board for L6562AX*	—	104.74	—	—
EVL6562A-TM-80W	497-6448-ND	Evaluation Board for L6562A*	—	15.00	—	—
EVL6563H-100W	497-10379-ND	Evaluation Board for L6563* ***NEW!***	—	79.80	—	—
EVL6563H-250W	497-10378-ND	Evaluation Board for L6563* ***NEW!***	—	119.70	—	—
EVL6564-100W	497-10164-ND	Evaluation Board for L6564* ***NEW!***	—	83.79	—	—
EVL6566A-75WADP	497-6449-ND	Evaluation Board for L6566A*	—	99.75	—	—
EVL6566B-40WSTB	497-6450-ND	Evaluation Board for L6566B*	—	47.25	—	—
EVL6566B-60WFF	497-6451-ND	Evaluation Board for L6566B*	—	47.25	—	—
EVL6566B-65W	497-6452-ND	Evaluation Board for L6566B*	—	66.50	—	—
EVL6566B-65W-QR	497-10165-ND	Evaluation Board for L6566B* ***NEW!***	—	111.72	—	—
EVL6591-90WADP	497-8335-ND	Evaluation Board for L6591*	—	104.74	—	—
EVLVIP15L-5WSB	497-9083-ND	Evaluation Board for VIPER 15* ***NEW!***	—	76.81	—	—
EVLVIP16H-4WFL	497-8835-ND	Eval. Board for VIPER16HD ISO PSU* ***NEW!***	—	69.83	—	—
EVLVIP16H-4WFN	497-8836-ND	Evaluation Board for VIPER16HD* ***NEW!***	—	69.83	—	—
EVLVIP16L-4WFL	497-8837-ND	Evaluation Board for VIPER16LD ISO PSU* ***NEW!***	—	69.83	—	—
EVLVIP16L-4WFN	497-8838-ND	Evaluation Board for VIPER16LD* ***NEW!***	—	69.83	—	—
EVLVIP16LD-1W5	497-10376-ND	Evaluation Board* ***NEW!***	—	76.81	—	—
EVLVIP17-5WCHG	497-8250-ND	Evaluation Board for VIPER17*	—	76.81	—	—
EVLVIP27H-12SB	497-10166-ND	Evaluation Board for VIPER27HD* ***NEW!***	—	76.81	—	—
EVLVIP27L-12WS	497-9084-ND	Evaluation Board for VIPER27LX* ***NEW!***	—	76.81	—	—
EVLVIPER28H-10W	497-8839-ND	Evaluation Board for VIPER28HD 115KHZ* ***NEW!***	—	76.81	—	—
EVLVIPER28L-10W	497-8840-ND	Evaluation Board for VIPER28LD 60KHZ* ***NEW!***	—	76.81	—	—
PCBDEMOH51X	497-8516-ND	Demo PCB for TSH51X*	—	45.00	—	—
STEVAL-CBL001V1	497-6453-ND	Demo Board based on ST7LNBx*	—	132.67	—	—
STEVAL-CBL003V1	497-8336-ND	Evaluation Board based on LNBH23*	—	92.17	—	—
STEVAL-CBL005V1	497-8717-ND	Demo Board based on LNBH23*	—	69.83	—	—
STEVAL-CBL006V1	497-8718-ND	Demo Board based on LNBH24*	—	81.00	—	—
STEVAL-CBP002V1	497-6393-ND	Evaluation Board for STFPC320*	—	76.81	—	—
STEVAL-CBP003V1	497-8432-ND	Evaluation Board, LED Controller/Driver Based on STLED316S*	—	78.20	—	—
STEVAL-CBP004V1	497-8394-ND	Demo Board based on STFPC311/ ST72264G2*	—	67.73	—	—
STEVAL-CBP005V1	497-8417-ND	Demo Board based on STLED316S*	—	47.25	—	—
STEVAL-CCA001V1	497-6265-ND	Demo Board based on TS4962MEIJT*	—	61.43	—	—
STEVAL-CCA004V1	497-8210-ND	Evaluation Board based on TSH120*	—	61.43	—	—
STEVAL-CCA005V1	497-8211-ND	Evaluation Board based on TSH173*	—	61.43	—	—
STEVAL-CCA006V1	497-8212-ND	Evaluation Board based on TSH103*	—	61.43	—	—
STEVAL-CCA007V1	497-8258-ND	Evaluation Board based on TS2012*	—	56.70	—	—
STEVAL-CCA008V1	497-8259-ND	Evaluation Board based on TS4998*	—	47.25	—	—
STEVAL-CCA009V1	497-8337-ND	Evaluation Board based on TS4601*	—	76.81	—	—
STEVAL-CCA010V1	497-8489-ND	Demo Board based on TSH122*	—	61.43	—	—
STEVAL-CCA011V1	497-8930-ND	Demo Board based on TS2012FC* ***NEW!***	—	79.60	—	—
STEVAL-CCA012V1	497-9004-ND	Demo Board based on TS2007* ***NEW!***	—	79.60	—	—
STEVAL-CCA013V1	497-8932-ND	Demo Board based on TS4961T* ***NEW!***	—	45.68	—	—
STEVAL-CCA014V1	497-8933-ND	Demo Board based on TSH345* ***NEW!***	—	68.43	—	—
STEVAL-CCA015V1	497-8934-ND	Demo Board based on TSH346* ***NEW!***	—	72.45	—	—

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics DigiReel® (Cont.)

EVALUATION BOARDS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STEVAL-CCA016V1	497-8931-ND	Demo Board based on TS4999* ***NEW!***	—	79.60	—	—
STEVAL-CCA019V1	497-10339-ND	Demo Board based on TS4982* ***NEW!***	—	70.88	—	—
STEVAL-CCA021V1	497-10338-ND	Demo Board based on STM32F103 and TS4657* ***NEW!***	—	107.53	—	—
STEVAL-CCA022V1	497-9086-ND	Demo Board for Single Op-Amps* ***NEW!***	—	9.45	—	—
STEVAL-CCA023V1	497-10337-ND	Demo Board based on TS472* ***NEW!***	—	39.38	—	—
STEVAL-CCH002V1	497-8371-ND	Eval. Board for HDMI and Video Switch*	—	183.75	—	—
STEVAL-CCM001V2	497-10375-ND	Graphic Panel Demo Board for STM32* ***NEW!***	—	143.06	—	—
STEVAL-CCM003V1	497-10374-ND	Graphic Panel Demo Board for STM32* ***NEW!***	—	175.88	—	—
STEVAL-CDE001V1	497-8395-ND	Evaluation Board based on ST72F321M9*	—	144.38	—	—
STEVAL-CLP001V1	497-6397-ND	Evaluation Board for STOD2540*	—	61.43	—	—
STEVAL-IAC001V1	497-6261-ND	Evaluation Board Alarm Platform*	—	287.50	—	—
STEVAL-IAS001V1	497-6398-ND	Evaluation Board for ST7Flite39/STM1403*	—	39.38	—	—
STEVAL-IAS003V1	497-10038-ND	Demo Board for STM8L101* ***NEW!***	—	42.53	—	—
STEVAL-ICB001V1	497-8396-ND	Demo Board based on STMPE1208S*	—	100.55	—	—
STEVAL-ICB002V1	497-10167-ND	Demo Board for STMPE821* ***NEW!***	—	70.88	—	—
STEVAL-ICB003V1	497-10042-ND	Demo Board for STMPE1208S ***NEW!***	—	67.73	—	—
STEVAL-ICB004V1	497-10336-ND	Demo Board for STMPE811* ***NEW!***	—	118.70	—	—
STEVAL-ICV001V1	497-5858-ND	Evaluation Board for ST7FLITE*	—	79.87	—	—
STEVAL-IDC001V1	497-8374-ND	Evaluation Board for ST72F561*	—	150.94	—	—
STEVAL-IFN001V2	497-6399-ND	Development Kit Starter for ST10F276Z5*	—	210.00	—	—
STEVAL-IFN002V1	497-5509-ND	Evaluation Board for ARMIC30*	—	97.76	—	—
STEVAL-IFP001V1	497-5510-ND	Board for High Side Driver, 8-Channel Based on VN808*	—	63.00	—	—
STEVAL-IFP002V1	497-4929-ND	Board for High Side Driver, 8-Channel based on VN808	—	70.88	—	—
STEVAL-IFP003V1	497-5511-ND	Board for High Side Driver, 4-Channel based on VN808*	—	55.13	—	—
STEVAL-IFP004V1	497-6231-ND	Evaluation Board based on Digital Input Termination PCLT2*	—	86.58	—	—
STEVAL-IFP005V2	497-8974-ND	Demo Board based on VN752PT* ***NEW!***	—	63.00	—	—
STEVAL-IFP006V1	497-8223-ND	Evaluation Board based on VNI4140K*	—	79.60	—	—
STEVAL-IFP008V1	497-6401-ND	Evaluation Board for CLT3-4*	—	42.53	—	—
STEVAL-IFP010V1	497-8260-ND	Demo Board for VNI2140J*	—	75.88	—	—
STEVAL-IFP010V2	497-8715-ND	Demo Board for VNI2140J*	—	79.60	—	—
STEVAL-IFS002V2	497-8261-ND	STR9 MEMS Extention*	—	58.28	—	—
STEVAL-IFS003V1	497-6238-ND	Demo Board based on Temp. Sensor STLM75/ STDS75 and ST72F651AR6*	—	161.44	—	—
STEVAL-IFS004V1	497-8397-ND	Demo Board based on TDE0160*	—	55.13	—	—
STEVAL-IFS005V1	497-8398-ND	Demo Board based on TDA0161*	—	55.13	—	—
STEVAL-IFS006V1	497-6403-ND	Evaluation Board for TDE1708*	—	55.13	—	—
STEVAL-IFS007V1	497-6455-ND	Evaluation Board based on TDA0161*	—	114.47	—	—
STEVAL-IFS009V1	497-8373-ND	Evaluation Board for SN250*	—	92.17	—	—
STEVAL-IFS010V1	497-6404-ND	Evaluation Board for STR9*	—	58.28	—	—
STEVAL-IFS012V1	497-8419-ND	Evaluation Board for ST72651AR6/ STTS75/STLM20*	—	168.00	—	—
STEVAL-IFS012V2	497-8844-ND	Eval. Daughter Board STTS75* ***NEW!***	8-TSSOP	28.35	—	—
STEVAL-IFS012V3	497-10373-ND	Eval. Daughter Board STLM20* ***NEW!***	—	59.85	—	—
STEVAL-IFS012V4	497-8845-ND	Eval. Daughter Board STLM20* ***NEW!***	SOT-323	28.35	—	—
STEVAL-IFS012V5	497-10372-ND	Eval. Daughter Board STTS75* ***NEW!***	8-SOIC	59.85	—	—
STEVAL-IFS012V6	497-8846-ND	Eval. Daughter Board STDS75* ***NEW!***	8-SOIC	28.35	—	—
STEVAL-IFS012V7	497-8847-ND	Eval. Daughter Board STDS75* ***NEW!***	8-TSSOP	28.35	—	—
STEVAL-IFS012V8	497-8848-ND	Eval. Daughter Board STLM75* ***NEW!***	8-SOIC	28.35	—	—
STEVAL-IFS012V10	497-8841-ND	Eval. STCN75 Daughter Card* ***NEW!***	8-SOIC	28.35	—	—
STEVAL-IFS012V11	497-8842-ND	Eval. Daughter Board STCN75* ***NEW!***	8-TSSOP	28.35	—	—
STEVAL-IFS012V12	497-8843-ND	Eval. Daughter Board STTS424E02* ***NEW!***	8-TDFN	28.35	—	—
STEVAL-IFS013V2	497-10371-ND	ZigBee® USB Dongle Demo Kit* ***NEW!***	—	77.96	—	—
STEVAL-IFP007V1	497-9045-ND	Demo Board based on SCLT3-8* ***NEW!***	—	128.63	—	—
STEVAL-IFW001V1	497-8262-ND	Evaluation Board for STR912FAW44*	—	183.75	—	—
STEVAL-IFW002V1	497-8263-ND	Extention Board for STEVAL-IFW001V1*	—	141.75	—	—
STEVAL-IHI001V1	497-8399-ND	Demo Board based on ST7LITE49M/ STLED316S*	—	110.32	—	—
STEVAL-IHI002V1	497-8420-ND	User Interface for Home Appliance/S Touch Daughter Demo Board*	—	61.43	—	—
STEVAL-IHM001V1	497-4731-ND	Control Board for BLDC/AC Motor Control	—	49.27	—	—
STEVAL-IHM004V1	497-4733-ND	Control Board for BLDC/AC Motor Control, 1KW Power Driver	—	91.85	—	—
STEVAL-IHM006V1	497-5080-ND	Evaluation Board for AC/AC Chopper Drives	—	66.15	—	—
STEVAL-IHM007V1	497-5085-ND	Universal Motor Control Starter Kit	—	119.70	—	—
STEVAL-IHM008V1	497-5512-ND	Evaluation Board for SEMITOP2®*	—	127.08	—	—
STEVAL-IHM009V1	497-5513-ND	Evaluation Board for SEMITOP3®*	—	131.25	—	—
STEVAL-IHM010V1	497-8400-ND	Evaluation Platform for ST7MC*	—	96.36	—	—
STEVAL-IHM012V1	497-5861-ND	Eval. Board for Power Mosfet/8-pin MCU*	—	60.00	—	—
STEVAL-IHM013V1	497-6407-ND	Evaluation Board for Vacuum Cleaner*	—	82.39	—	—
STEVAL-IHM015V1	497-8213-ND	Eval. Board ST7MC2S4T6/ STS8DNH3LL*	—	221.81	—	—
STEVAL-IHM017V1	497-6408-ND	Evaluation Board BLDC Sensorless Motor*	—	150.94	—	—
STEVAL-IHM019V1	497-8402-ND	Demo Board, Complete Inverter*	—	144.38	—	—
STEVAL-IHM020V1	497-8403-ND	Demo Board based on STCC08*	—	141.75	—	—
STEVAL-IHM021V1	497-8404-ND	Demo Board, 100W, 3-Phase Inverter*	—	286.13	—	—
STEVAL-IHM022V1	497-9048-ND	Demo Board based on STM32F103ZE* ***NEW!***	—	270.38	—	—
STEVAL-IHM023V1	497-10370-ND	Eval. Board for L6390/ STGP10NC60* ***NEW!***	—	229.69	—	—
STEVAL-IHM024V1	497-10168-ND	Demo Board for L6390, STGDL6NC60DI* ***NEW!***	—	246.75	—	—
STEVAL-IHM026V1	497-10169-ND	Demo Board based on STM8S207RB* ***NEW!***	—	178.50	—	—
STEVAL-IHT001V1	497-5514-ND	Evaluation Board for Thermo Control*	—	125.69	—	—
STEVAL-IHT003V1	497-8224-ND	Evaluation Board ACST6-7ST/X0205NN*	—	45.68	—	—
STEVAL-IHT004V1	497-9005-ND	Demo Board on HT Triacs/ ST7LITE1B* ***NEW!***	—	125.69	—	—
STEVAL-IKA001V1	497-6367-ND	Evaluation Board for STM32*	—	59.85	—	—
STEVAL-ILB001V2	497-6409-ND	Evaluation Board Bipolar Solution for PFC*	—	70.88	—	—
STEVAL-ILB004V1	497-6232-ND	Eval. Board for ST7LITE1B, STP5NK60Z*	—	100.55	—	—
STEVAL-ILB005V2	497-8421-ND	Demo Board for L6585DE T5 Lamp*	—	115.91	—	—
STEVAL-ILB007V1	497-10335-ND	Demo Board for L6585DE Ballast* ***NEW!***	—	121.50	—	—
STEVAL-ILC001V1	497-5576-ND	Evaluation Board for HF TL Ballast*	—	50.67	—	—
STEVAL-ILD002V1	497-8225-ND	Evaluation Board based on L6574*	—	67.03	—	—
STEVAL-ILH001V1	497-8406-ND	Evaluation Board based on L6562*	—	288.75	—	—
STEVAL-ILH002V1	497-8214-ND	35W Electronic Ballast for HID L*	—	108.93	—	—
STEVAL-ILL001V1	497-5071-ND	Evaluation Board, Dimmable Driver with VIPer22A-E	—	73.22	—	—
STEVAL-ILL002V3	497-6337-ND	Evaluation Board for 40 LED STP08DP05*	—	68.43	—	—
STEVAL-ILL002V4	497-6338-ND	Evaluation Board for 40 LED STP08DP05*	—	68.43	—	—
STEVAL-ILL003V2	497-6410-ND	Evaluation Board based on STP16CP05*	—	55.13	—	—
STEVAL-ILL004V2	497-5515-ND	Phase Control Dimmer Board*	—	39.00	—	—
STEVAL-ILL005V1	497-5072-ND	Evaluation Board for VIPer12A Off-Line	—	70.88	—	—
STEVAL-ILL006V1	497-5073-ND	Evaluation Board for VIPer22A Off-Line	—	61.63	—	—
STEVAL-ILL008V1	497-5516-ND	Evaluation Board for Cree LED Flashlight*	—	44.10	—	—
STEVAL-ILL009V1	497-6250-ND	RGB Control Board based on STP04CM596 No LEDs*	—	55.50	—	—
STEVAL-ILL009V3	497-6256-ND	RGB Control Load Board with OSTAR Projection Module*	—	56.70	—	—
STEVAL-ILL009V4	497-6257-ND	RGB Control Load Board with OSRAM Golden Eagle LEDs*	—	51.98	—	—
STEVAL-ILL009V5	497-8407-ND	RGB Color Demo Board based on STP04CM05/ ST1S10*	—	76.81	—	—
STEVAL-ILL010V1	497-6411-ND	Evaluation Board based on L6902*	—	40.95	—	—
STEVAL-ILL013V1	497-9018-ND	80W Offline LED Dvr. Demo Board ***NEW!***	—	114.51	—	—
STEVAL-ILL014V1	497-8264-ND	Evaluation Board for STCS1*	—	67.73	—	—
STEVAL-ILL015V1	497-8490-ND	Demo Board Based on STP24DP05/ STM32*	—	90.77	—	—
STEVAL-ILL016V2	497-10368-ND	15W Offline LED Driver Demo Board* ***NEW!***	—	117.31	—	—
STEVAL-ILL017V1	497-9050-ND	Demo Board based on VIPER17HN* ***NEW!***	—	68.43	—	—
STEVAL-ILL018V1	497-8422-ND	Evaluation Board for Osram LED*	—	9.45	—	—
STEVAL-ILL018V2	497-8423-ND	Evaluation Board for Osram LED*	—	9.45	—	—
STEVAL-ILL018V3	497-8424-ND	Evaluation Board for Osram LED*	—	9.45	—	—
STEVAL-ILL018V4	497-9055-ND	Evaluation Board for Osram LED* ***NEW!***	—	9.45	—	—
STEVAL-ILL020V1	497-10043-ND	Demo Board based on LED7706 ***NEW!***	—	70.88	—	—
STEVAL-ILL021V1	497-10044-ND	Demo Board based on LED7707 ***NEW!***	—	70.88	—	—
STEVAL-ILL023V1	497-9046-ND	Demo Board based on L6726A* ***NEW!***	—	61.43	—	—
STEVAL-ILL024V1	497-9091-ND	Demo Board for STM32* ***NEW!***	—	89.38	—	—
STEVAL-ILL025V1	497-9087-ND	LED Matrix Display Demo* ***NEW!***	—	150.94	—	—
STEVAL-ILL026V1	497-9049-ND	Demo Board based on VIPER22ASTR-E* ***NEW!***	—	69.83	—	—
STEVAL-ILL027V1	497-10170-ND	Demo Board based on L6562A* ***NEW!***	—	58.28	—	—
STEVAL-IPA001V1	497-5677-ND	Anti-Tamper/Security Kit*	—	53.55	—	—
STEVAL-IPB001V1	497-5863-ND	Evaluation Board 3-Phase SMPS Based on ESBT*	—	69.83	—	—
STEVAL-IPC001V1	497-8433-ND	Electronic Fiscal Cash Register*	—	625.00	—	—
STEVAL-IPE002V1	497-5076-ND	Evaluation Board Energy Meter	—	129.87	—	—
STEVAL-IPE003V1	497-5077-ND	Evaluation Board Energy Meter	—	97.76	—	—
STEVAL-IPE004V1	497-5078-ND	Evaluation Board Energy Meter*	—	66.15	—	—
STEVAL-IPE005V1	497-8409-ND	Demo Board based on STPM01*	—	328.13	—	—
STEVAL-IPE007V1	497-5517-ND	Evaluation Board 1-Phase Energy Meter*	—	70.88	—	—
STEVAL-IPE008V1	497-6412-ND	Evaluation Board for STPM01/STR715FR0*	—	351.75	—	—
STEVAL-IPE009V1	497-8434-ND	Demo Board Based on ST72321BR9, STPM14*	—	178.50	—	—
STEVAL-IPT002V1	497-8939-ND	Demo Board based on ST8024* ***NEW!***	—	129.87	—	—
STEVAL-ISA001V1	497-4931-ND	Board for 6W Dual Output Supply using VIPer12A	—	96.36	—	—
STEVAL-ISA004V1	497-5864-ND	Eval. Board, Dual Output, using VIPer22A*	—	74.03	—	—
STEVAL-ISA005V1	497-4932-ND	Board for 1.8W Buck Topology Power Supply with VIPer12AS	—	37.80	—	—
STEVAL-ISA006V1	497-5082-ND	Eval. Board, 6W Flyback for VIPer12AS	—	23.63	—	—
STEVAL-ISA007V1	497-5083-ND	Evaluation Board for 3-Phase Power Supply with ESBT	—	122.89	—	—
STEVAL-ISA008V1	497-8435-ND	Evaluation Board for VIPer53*	—	120.10	—	—
STEVAL-ISA009V1	497-6262-ND	Design Board using VIPer53-E*	—	97.76	—	—
STEVAL-ISA010V1	497-9006-ND	Demo Board based on VIPER16* ***NEW!***	—	48.83	—	—
STEVAL-ISA011V1	497-6413-ND	Evaluation Board for VIPer12A*	—	63.00	—	—
STEVAL-ISA012V1	497-5678-ND	Evaluation Board for 3-Phase Power Supply with VIPer/MOSFETs *	—	94.96	—	—
STEVAL-ISA013V1	497-4933-ND	Board for VIPer53 Dual Output Off-Line Wide Range Power Supply	—	46.50	—	—
STEVAL-ISA014V1	497-5084-ND	Board for VIPer12A Travel Adaptor, 3.6W Output	—	50.40	—	—
STEVAL-ISA015V2	497-5679-ND	Evaluation Board for 3-Phase Power Supply with ESBT (100W)*	—	104.74	—	—
STEVAL-ISA016V1	497-6414-ND	Evaluation Board for L6565*	—	49.27	—	—
STEVAL-ISA017V1	497-5680-ND	Evaluation Board Power Supply for STB based on L6565 (US-110V)*	—	49.27	—	—
STEVAL-ISA018V1	497-8265-ND	Evaluation Board based on L6599*	—	70.88	—	—
STEVAL-ISA019V2	497-6339-ND	Evaluation Board 80W ESBT Quasi-Resonant Wide-Range SMPS*	—	90.77	—	—
STEVAL-ISA020V1	497-5519-ND	Eval. Board for 3.5W Battery Charger*	—	20.48	—	—
STEVAL-ISA022V1	497-5520-ND	Evaluation Board for 6W Power Supply*	—	26.37	—	—
STEVAL-ISA023V1	497-5865-ND	Evaluation Board for VIPer53E w/ Flyback AC/DC Converter, 24W Pos. Output*	—	75.41	—	—
STEVAL-ISA023V2	497-5866-ND	Evaluation Board, 24W Negative Output, using VIPer53E*	—	76.81	—	—
STEVAL-ISA024V1	497-5867-ND	Eval. Board, 20A, 250kHz using L6725*	—	72.45	—	—
STEVAL-ISA025V1	497-5868-ND	Eval. Board, 30A, 400kHz using L6730*	—	92.17	—	—
STEVAL-ISA026V1	497-5869-ND	Eval. Board, 20A, 250kHz using L6732*	—	67.03	—	—
STEVAL-ISA027V1	497-6259-ND	Evaluation Board, Single Phase, 20A, Step-Down, 300kHz using L6726A*	—	73.15	—	—
STEVAL-ISA028V1	497-6258-ND	Evaluation Board, Single Phase, 20A, Step-Down, 300kHz using L6727*	—	69.83	—	—
STEVAL-ISA029V1	497-6458-ND	Evaluation Board based on VIPER53-E*	—	132.67	—	—
STEVAL-ISA031V1	497-6415-ND	Evaluation Board based on L6565/ STW4N150*	—	150.94	—	—
STEVAL-ISA032V1	497-6416-ND	Evaluation Board based on L5991/ STP10NK60Z*	—	132.67	—	—
STEVAL-ISA033V1	497-8226-ND	Evaluation Board L5991/STP12NK80Z*	—	174.56	—	—
STEVAL-ISA034V1	497-8227-ND	Evaluation Board L6565/STW3N150*	—	166.69	—	—
STEVAL-ISA035V1	497-8215-ND	Evaluation Board based on VIPER22A*	—	72.45	—	—
STEVAL-ISA036V1	497-6417-ND	Evaluation Board based on STC04IE170*	—	105.07	—	—
STEVAL-ISA037V1	497-6418-ND	Evaluation Board based on L6728*	—	81.00	—	—
STEVAL-ISA038V1	497-8228-ND	Evaluation Board based on L6728*	—	61.43	—	—
STEVAL-ISA039V1	497-8266-ND	Evaluation Board based on L6727*	—	61.43	—	—
STEVAL-ISA041V1	497-8410-ND	Evaluation Board based on STP12IE95F4*	—	106.40	—	—
STEVAL-ISA042V1	497-6368-ND	Evaluation Board based on ST1S03*	—	56.70	—	—
STEVAL-ISA042V2	497-6369-ND	Evaluation Board based on ST1S03*	—	56.70	—	—
STEVAL-ISA043V1	497-6419-ND	Evaluation Board based on ST1S06*	—	56.70	—	—
STEVAL-ISA043V2	497-6420-ND	Evaluation Board based on ST1S06*	—	56.70	—	—
STEVAL-ISA044V2	497-8229-ND	Evaluation Board based on ST1S10*	—	72.45	—	—
STEVAL-ISA045V1	497-6370-ND	Evaluation Board based on ST1S09*	—	55.13	—	—
STEVAL-ISA045V2	497-6371-ND	Evaluation Board based on ST1S09*	—	55.13	—	—
STEVAL-ISA046V1	497-6372-ND	Evaluation Board based on ST1S09*	—	55.13	—	—

* *RoHS Compliant*

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(Continued)

STMicroelectronics Digi-Reel® (Cont.) EVALUATION BOARDS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STEVAL-ISA046V2	497-6373-ND	Evaluation Board based on ST1S09*	—	55.13	—	—
STEVAL-ISA047V1	497-6374-ND	Evaluation Board based on ST1S03A*	—	55.13	—	—
STEVAL-ISA047V2	497-6375-ND	Evaluation Board based on ST1S03A*	—	55.13	—	—
STEVAL-ISA048V2	497-6377-ND	Evaluation Board based on ST8R00W*	—	55.13	—	—
STEVAL-ISA049V1	497-8217-ND	Evaluation Board based on ST2S06A*	—	68.43	—	—
STEVAL-ISA049V2	497-8218-ND	Evaluation Board based on ST2S06B*	—	68.43	—	—
STEVAL-ISA050V1	497-8425-ND	Demo Board based on PM6641*	—	89.38	—	—
STEVAL-ISA051V1	497-8411-ND	Evaluation Board Based on PM6670S*	—	103.34	—	—
STEVAL-ISA051V2	497-8412-ND	Evaluation Board Based on PM6670AS*	—	106.13	—	—
STEVAL-ISA052V1	497-8426-ND	Evaluation Kit Based on PM6675S*	—	103.34	—	—
STEVAL-ISA052V2	497-8413-ND	Evaluation Board for PM6675AS*	—	106.13	—	—
STEVAL-ISA053V1	497-6378-ND	Evaluation Board for PM6680*	—	97.76	—	—
STEVAL-ISA053V2	497-6379-ND	Evaluation Board for PM6680A*	—	97.76	—	—
STEVAL-ISA054V1	497-8849-ND	Demo Board for STW9N150* ***NEW!***	—	169.31	—	—
STEVAL-ISA055V1	497-8219-ND	Evaluation Board based on ST1S12*	—	55.13	—	—
STEVAL-ISA055V2	497-8220-ND	Evaluation Board based on ST1S12*	—	55.13	—	—
STEVAL-ISA056V1	497-8414-ND	Evaluation Board based on PM6600*	—	110.32	—	—
STEVAL-ISA057V1	497-9051-ND	Demo Board based on STC03DE220HV/ L6565* ***NEW!***	—	121.50	—	—
STEVAL-ISA058V1	497-9052-ND	Demo Board based on VIPER17LN* ***NEW!***	—	68.43	—	—
STEVAL-ISA059V1	497-8716-ND	Evaluation Board based on TSM108*	—	86.58	—	—
STEVAL-ISA060V1	497-8513-ND	Evaluation Board for VIPER17HN*	—	74.03	—	—
STEVAL-ISA062V1	497-9007-ND	Demo Board based on VIPER17* ***NEW!***	—	67.03	—	—
STEVAL-ISA063V1	497-9008-ND	Demo Board based on STBB1XX* ***NEW!***	—	40.95	—	—
STEVAL-ISB001V1	497-5682-ND	Eval. Board for Cell Phone Batt. Charger*	—	56.70	—	—
STEVAL-ISB002V1	497-6421-ND	Eval. Board Digital Battery Charger Design*	—	74.03	—	—
STEVAL-ISB003V1	497-8427-ND	Demo Board on USB Li-Ion Battery Charger Based on ST7260E2*	—	75.41	—	—
STEVAL-ISB005V1	497-8428-ND	Demo Board Li-Ion Battery Charger Based on ST7260/L6924D*	—	61.43	—	—
STEVAL-ISB006V1	497-8338-ND	Evaluation Board based on STW4102*	—	63.00	—	—
STEVAL-ISB007V1	497-9054-ND	Demo Board based on ST7260/ L6924U* ***NEW!***	—	56.70	—	—
STEVAL-ISB008V1	497-8514-ND	Eval. Board based on STW4102/STM32*	—	74.03		
STEVAL-ISB009V1	497-10045-ND	Demo Board for STC3100 ***NEW!***	—	76.81	—	—
STEVAL-ISB011V1	497-10421-ND	Demo Board for STC3100/STM32* ***NEW!***	—	69.83	—	—
STEVAL-ISC001V1	497-6422-ND	Evaluation Board based on L6565*	—	82.39	—	—
STEVAL-ISC002V1	497-8429-ND	Power Adapter Board Based on L6599 and STP12NM50N*	—	191.63	—	—
STEVAL-ISF001V1	497-8850-ND	Demo Board for L6563/ STW55NM60N* ***NEW!***	—	682.50	—	—
STEVAL-ISF002V1	497-10422-ND	Demo Board based on STW23NM60N/ TD352* ***NEW!***	—	334.69	—	—
STEVAL-ISQ002V1	497-6423-ND	Evaluation Board based on ST72264G1*	—	67.50	—	—
STEVAL-ISQ006V1	497-9056-ND	Demo Board based on ST72F651* ***NEW!***	—	74.03	—	—
STEVAL-ISQ007V1	497-8339-ND	Evaluation Board based on TSC101*	—	44.10	—	—
STEVAL-ISQ009V1	497-10171-ND	Demo Board based on L6615* ***NEW!***	—	227.06	—	—
STEVAL-ISS001V1	497-8222-ND	UPS (Line Interactive - 450W)*	—	288.75	—	—
STEVAL-ISS001V2	497-8436-ND	UPS (Line Interactive - 450W)*	—	288.75	—	—
STEVAL-ISV001V1	497-10425-ND	1000W Dual Stage DC/AC Converter Demo Board based on STP160N75F3* ***NEW!***	—	468.75	—	—
STEVAL-ISV002V1	497-10423-ND	3000W Photovoltaic Converter for Grid-Connected Applications* ***NEW!***	—	2231.25	—	—
STEVAL-ISW001V1	497-10424-ND	2.5kW Manual Arc Welder Demo Board* ***NEW!***	—	360.94	—	—
STEVAL-MKI029V1	497-8851-ND	Demo Board for STM8S207R6/ LIS331DLH* ***NEW!***	—	37.80	—	—
STEVAL-MKI030V1	497-8852-ND	Demo Board for STM8S207R6/ LIS331DLH* ***NEW!***	—	37.80	—	—
STEVAL-MKI032V1	497-9047-ND	Demo Board for STM32XXX and MEMs* ***NEW!***	—	74.01	—	—
STEVAL-MKI041V1	497-10172-ND	Demo Board based on LY550ALH* ***NEW!***	—	106.13	—	—
STEVAL-PCC001V1	497-5683-ND	Evaluation Board for Full Speed USB-Serial Bridge*	—	30.00	—	—
STEVAL-PCC002V1	497-5521-ND	Evaluation Board for Low Speed USB*	—	31.50	—	—
STEVAL-PCC003V1	497-8208-ND	Evaluation Board based on STUSB03*	—	72.45	—	—
STEVAL-PCC004V1	497-8209-ND	Evaluation Board based on STUSB02E*	—	72.45	—	—
STEVAL-PCC005V1	497-8267-ND	HDD Bridge for STR912FAW44*	—	79.60	—	—
STEVAL-PCC006V1	497-8268-ND	HDD Bridge Exetension for EVAL-STR910*	—	39.38	—	—
STEVAL-PCC008V1	497-10361-ND	TFT Display Demo Board for STR91* ***NEW!***	—	137.81	—	—
STEVAL-PCC009V1	497-8853-ND	Demo Board for STM32* ***NEW!***	—	39.38	—	—
STEVAL-PCC009V3	497-10173-ND	Demo Board based on STMPE821* ***NEW!***	—	39.38	—	—
STEVAL-PCC010V1	497-10360-ND	Evaluation Board for ST802RT1* ***NEW!***	—	135.19	—	—
STEVAL-PCN001V1	497-5577-ND	Evaluation Board for USB Power Switch*	—	131.25	—	—
STEVAL-PSQ001V1	497-6425-ND	Evaluation Board based on PM6680A*	—	108.93	—	—
STEVAL-SCM001V1	497-5684-ND	Demo Board for RTC M41T62 w/ST7 USB*	—	72.45	—	—
STEVAL-SPDC01V1	497-9009-ND	Demo Board based on SPDC12L00010* ***NEW!***	—	33.00	—	—
STEVAL-SPMD150V1	497-9010-ND	Demo Board based on SPMD150STP* ***NEW!***	—	73.15	—	—
STEVAL-SPMD150V2	497-10049-ND	Demo Board for SPMD150 ***NEW!***	—	69.83	—	—
STEVAL-SPMD250V1	497-9011-ND	Demo Board based on SPMD250STP* ***NEW!***	—	73.15	—	—
STEVAL-SPMD250V2	497-10050-ND	Demo Board for SPMD250 ***NEW!***	—	69.83	—	—
STEVAL-TCS004V1	497-8515-ND	Evaluation Board based on STMPE1601*	—	83.79	—	—
STEVAL-TDR001V1	497-6456-ND	Evaluation Board, AB-54003L-512*	—	178.50	—	—
STEVAL-TDR003V1	497-6457-ND	Evaluation Board, AB-54003L-512*	—	170.63	—	—
STEVAL-TDR006V1	497-8430-ND	Evaluation Board, AB-84008L-470*	—	87.98	—	—
STEVAL-TLL001V1	497-6260-ND	Evaluation Board LED Controller based on STLD40D*	—	45.68	—	—
STEVAL-TLL002V1	497-6239-ND	Eval. Board Flash Driver based on STCF01*	—	42.53	—	—
STEVAL-TLL003V1	497-6235-ND	Evaluation Board Power Flash Driver based on STCF02*	—	68.43	—	—
STEVAL-TLL004V1	497-8431-ND	Eval. Board Flash Driver based on STCF03* ***NEW!***	—	85.19	—	—
STEVAL-TLL005V1	497-8207-ND	Evaluation Board based on STCF03/ST7*	—	85.19	—	—
STEVAL-TLL006V1	497-10051-ND	Demo Board for STCF06 ***NEW!***	—	183.75	—	—
STEVAL-TLL007V1	497-10174-ND	Demo Board for STCF05* ***NEW!***	—	164.06	—	—
STEVAL-TSP001V1	497-6427-ND	Evaluation Board for STHS4257A/L6565D*	—	99.75	—	—
STM8L101-EVAL	497-10039-ND	Evaluation Kit for STM8L101* ***NEW!***	—	162.50	—	—
STUSB03EDEMOBO	497-5853-ND	Demo Board for STUSB03EQR*	—	55.13	—	—
VIPER12-LED-EV	VIPER12-LED-EV-ND	VIPER 12 Evaluation Board	—	32.30	—	—
VIPER22-LED-EV	VIPER22-LED-EV-ND	VIPER 22 Evaluation Board	—	30.92	—	—

STMicroelectronics Digi-Reel® LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74AC00MTR	497-7068-1-ND	Quad 2-Input NAND Gate*	14-SOIC	.58	.47	.35
74AC04MTR	497-1015-1-ND	Hex Inverter	14-SOIC	.49	.40	.30
74AC04MTR	497-1015-2-ND	Hex Inverter	14-SOIC	345.00/2,500		
74AC32MTR	497-1026-1-ND	Quad 2-Input OR Gate	14-SOIC	.42	.34	.26
74AC74MTR	497-1030-1-ND	Dual D-Type F/F with Preset/Clear	14-SOIC	.47	.38	.29
74AC125MTR	497-1017-1-ND	Tri-State Quad Bus Buffer	14-SOICN	.49	.40	.30
74AC125MTR	497-1017-2-ND	Tri-State Quad Bus Buffer	14-SOICN	345.00/2,500		
74AC138MTR	497-1018-1-ND	3-to-8 Line Decoder*	16-SOIC	.53	.43	.33
74AC157MTR	497-7070-1-ND	Quad 2-Channel Mux*	16-SOIC	.58	.47	.35
74AC157MTR	497-7070-2-ND	Quad 2-Channel Mux*	16-SOIC	407.50/2,500		
74AC157TTR	497-7071-1-ND	Quad 2-Channel Mux*	16-TSSOP	.60	.49	.37
74AC174MTR	497-6857-1-ND	Hex D-Type F/F with Clear*	16-SOP	.58	.47	.35
74AC174MTR	497-6857-2-ND	Hex D-Type F/F with Clear*	16-SOP	407.50/2,500		
74AC240MTR	497-2911-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.54	.47	.37
74AC244TTR	497-2913-1-ND	Tri-State Octal Bus Buffer*	20-TSSOP	.58	.47	.35
74AC245MTR	497-1024-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.62	.50	.38
74AC245TTR	497-2914-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.61	.53	.42
74AC257TTR	497-7073-1-ND	Tri-State Quad 2-Ch. Mux*	16-TSSOP	.57	.50	.39
74AC257TTR	497-7073-2-ND	Tri-State Quad 2-Ch. Mux*	16-TSSOP	472.50/2,500		
74AC373MTR	497-6648-1-ND	Tri-State Octal D-Type Latch*	20-SOP	.54	.47	.37
74AC374MTR	497-1027-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.56	.44
74AC374MTR	497-1027-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	234.00/1,000		
74AC374TTR	497-7718-1-ND	Tri-State Octal D-Type F/F*	20-TSSOP	.96	.86	.69
74AC573TTR	497-7076-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.54	.47	.37
74AC574MTR	497-1029-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.58	.47	.35
74AC574MTR	497-1029-2-ND	Tri-State Octal D-Type F/F*	20-SOIC	179.00/1,000		
74AC574TTR	497-7077-1-ND	Tri-State Octal D-Type F/F*	20-TSSOP	.54	.47	.37
74AC16245TTR	497-1021-1-ND	Tri-State 16-Bit Bus Transceiver*	48-TSSOP	1.11	1.00	.80
74ACT00TTR	497-7080-1-ND	Quad 2-Input NAND Gate*	14-TSSOP	.53	.43	.33
74ACT04MTR	497-7081-1-ND	Tri-State 16-Bit Bus Transceiver*	48-TSSOP	.53	.43	.33
74ACT08MTR	497-7082-1-ND	Quad 2-Input NAND Gate*	14-SOIC	.53	.43	.33
74ACT74MTR	497-7090-1-ND	Dual D-Type Flip-Flop*	14-SOIC	.58	.47	.35
74ACT74TTR	497-7091-1-ND	Dual D-Type Flip-Flop*	14-TSSOP	.58	.47	.35
74ACT125MTR	497-7083-1-ND	Tri-State Quad Bus Buffer*	14-SOICN	.53	.43	.33
74ACT125MTR	497-7083-2-ND	Tri-State Quad Bus Buffer*	14-SOICN	377.50/2,500		
74ACT125TTR	497-7084-1-ND	Tri-State Quad Bus Buffer*	14-TSSOP	.62	.50	.38
74ACT138MTR	497-1033-1-ND	3-8 Inverting Line Decoder	16-SOIC	.62	.50	.38
74ACT240MTR	497-1040-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.54	.47	.37
74ACT240MTR	497-1040-2-ND	Tri-State Octal Bus Buffer	20-SOIC	195.00/1,000		
74ACT244TTR	497-2916-1-ND	Tri-State Octal Bus Buffer*	20-TSSOP	.58	.47	.35
74ACT257MTR	497-1042-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.67	.50	.40
74ACT273TTR	497-7087-1-ND	Octal D-Type Flip-Flip*	20-TSSOP	.54	.47	.37
74ACT299TTR	497-4140-1-ND	8-Bit PIPO Shift Register*	20-TSSOP	.54	.47	.37
74ACT374TTR	497-4141-1-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.54	.47	.37
74ACT374TTR	497-4141-2-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	442.50/2,500		
74ACT573TTR	497-7721-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	1.00	.89	.70
74ACT574MTR	497-6616-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOP	.54	.47	.37
74ACT16373TTR	497-1037-1-ND	Tri-State 16-Bit D-Type Latch*	48-TSSOP	1.11	1.00	.80
74ALVCH16244TTR	497-1046-1-ND	LV CMOS 16-Bit Bus Buffer*	48-TSSOP	1.97	1.69	1.38
74ALVCH16244TTR	497-1046-2-ND	LV CMOS 16-Bit Bus Buffer*	48-TSSOP	1628.00/2,000		
74ALVCH16374TTR	497-1047-1-ND	LV CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1.97	1.69	1.38
74ALVCR162245TTR	497-2382-1-ND	LV CMOS 16-Bit Transceiver	48-TSOP	1.97	1.69	1.38
74AUP1G04DTR	497-6823-1-ND	LP Single Inverter Gate*	6-DFN	.83	.72	.57
74AUP1G04DTR	497-6823-2-ND	LP Single Inverter Gate*	6-DFN	1275.00/5,000		
74AUP1G04GTR	497-6824-1-ND	LP Single Inverter Gate*	6-DFN	.83	.72	.57
74AUP1G04GTR	497-6824-2-ND	LP Single Inverter Gate*	6-DFN	822.00/3,000		
74H1G66STR	497-1245-1-ND	Single Bilateral Switch	SOT-23-5L	.69	.56	.42
74LCX00MTR	497-1048-1-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	.55	.44	.33
74LCX00MTR	497-1048-2-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	387.50/2,500		
74LCX00TTR	497-7092-1-ND	LV CMOS Quad 2-Input NAND Gate*	14-TSSOP	.75	.61	.46
74LCX00TTR	497-7092-2-ND	LV CMOS Quad 2-Input NAND Gate*	14-TSSOP	530.00/2,500		
74LCX07MTR	497-7093-1-ND	LV CMOS Hex Buffer*	14-SOICN	.75	.61	.46
74LCX07MTR	497-7093-2-ND	LV CMOS Hex Buffer*	14-SOICN	530.00/2,500		
74LCX07TTR	497-7094-1-ND	LV CMOS Hex Buffer*	14-TSSOP	.75	.61	.46
74LCX07TTR	497-7094-2-ND	LV CMOS Hex Buffer*	14-TSSOP	530.00/2,500		
74LCX08MTR	497-1050-1-ND	LV CMOS Quad 2-Input AND Gate*	14-SOIC	.55	.44	.33
74LCX08MTR	497-1050-2-ND	LV CMOS Quad 2-Input AND Gate*	14-SOIC	387.50/2,500		
74LCX14TTR	497-7096-1-ND	LV CMOS Hex Schmitt Inverter*	14-TSSOP	.75	.61	.46
74LCX14TTR	497-7096-2-ND	LV CMOS Hex Schmitt Inverter*	14-TSSOP	530.00/2,500		
74LCX32MTR	497-1063-1-ND	LV CMOS 2-Input OR Gate*	14-SOIC	.55	.44	.33
74LCX32MTR	497-1063-2-ND	LV CMOS 2-Input OR Gate*	14-SOIC	387.50/2,500		
74LCX32TTR	497-7098-1-ND	LV CMOS 2-Input OR Gate*	14-TSSOP	.75	.61	.46
74LCX32TTR	497-7098-2-ND	LV CMOS 2-Input OR Gate*	14-TSSOP	530.00/2,500		
74LCX74MTR	497-1068-1-ND	LV CMOS Dual D-Type Flip-Flop*	14-SOIC	.61	.49	.37
74LCX74MTR	497-1068-2-ND	LV CMOS Dual D-Type Flip-Flop*	14-SOIC	430.00/2,500		
74LCX74TTR	497-7102-1-ND	LV CMOS Dual D-Type Flip-Flop*	14-TSSOP	.70	.60	.48
74LCX74TTR	497-7102-2-ND	LV CMOS Dual D-Type Flip-Flop*	14-TSSOP	572.50/2,500		
74LCX125MTR	497-1051-1-ND	LV CMOS Quad Bus Buffer*	14-SOICN	.55	.44	.33
74LCX125MTR	497-1051-2-ND	LV CMOS Quad Bus Buffer*	14-SOICN	387.50/2,500		
74LCX125TTR	497-6649-1-ND	LV CMOS Quad Bus Buffer*	14-TSSOP	.75	.61	.46
74LCX125TTR	497-6649-2-ND	LV CMOS Quad Bus Buffer*	14-TSSOP	530.00/2,500		
74LCX138TTR	497-7095-1-ND	LV CMOS 3-to-8 Line Decoder*	16-TSSOP	.70	.60	.48
74LCX138TTR	497-7095-2-ND	LV CMOS 3-to-8 Line Decoder*	16-TSSOP	572.50/2,500		
74LCX157MTR	497-1052-1-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	1.32	1.18	.94
74LCX157MTR	497-1052-2-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	1215.00/2,500		
74LCX157TTR	497-7097-1-ND	LV CMOS Quad 2-Channel Mux*	16-TSSOP	.70	.60	.48
74LCX157TTR	497-7097-2-ND	LV CMOS Quad 2-Channel Mux*	16-TSSOP	572.50/2,500		
74LCX244MTR	497-1061-1-ND	Tri-State LV CMOS Octal Bus Buffer*	20-SOICW	.94	.82	.65
74LCX244MTR	497-1061-2-ND	Tri-State LV CMOS Octal Bus Buffer*	20-SOICW	342.00/1,000		
74LCX244TTR	497-2917-1-ND	Tri-State LV CMOS Octal Bus Buffer*	20-TSSOP	.81	.65	.49
74LCX244TTR	497-2917-2-ND	Tri-State LV CMOS Octal Bus Buffer*	20-TSSOP	570.00/2,500		
74LCX245MTR	497-1062-1-ND	LV CMOS Octal Bus Transceiver*	20-SOIC	.94	.82	.65
74LCX245MTR	497-1062-2-ND	LV CMOS Octal Bus Transceiver*	20-SOIC	342.00/1,000		
74LCX245TTR	497-6650-1-ND	LV CMOS Octal Bus Transceiver.*	20-TSSOP	.79	.68	.54
74LCX245TTR	497-6650-2-ND	LV CMOS Octal Bus Transceiver.*	20-TSSOP	650.00/2,500		
74LCX257TTR	497-6428-1-ND	LV CMOS Quad 2-Channel Mux*	16-TSSOP	.70	.60	.48
74LCX257TTR	497-6428-2-ND	LV CMOS Quad 2-Channel Mux*	16-TSSOP	572.50/2,500		
74LCX373MTR	497-1064-1-ND	Tri-State Octal D-Type Latch	20-SOIC	1.76	1.52	1.24
74LCX373MTR	497-1064-2-ND	Tri-State Octal D-Type Latch	20-SOIC	731.00/1,000		
74LCX373TTR	497-7099-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.79	.68	.54
74LCX373TTR	497-7099-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	650.00/2,500		
74LCX541MTR	497-1066-1-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	1.80	1.61	1.28
74LCX541MTR	497-1066-2-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	710.00/1,000		
74LCX541TTR	497-2918-1-ND	Low Voltage CMOS Octal Bus Buffer*	20-TSSOP	.81	.65	.49
74LCX541TTR	497-2918-2-ND	Low Voltage CMOS Octal Bus Buffer*	20-TSSOP	570.00/2,500		
74LCX573TTR	497-7100-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.79	.68	.54

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(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74LCX573TTR	497-7100-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	650.00/2,500		
74LCX574TTR	497-7101-1-ND	Tri-State Octal D-Type F/F*	20-TSSOP	.79	.68	.54
74LCX574TTR	497-7101-2-ND	Tri-State Octal D-Type F/F*	20-TSSOP	650.00/2,500		
74LCX16240TTR	497-1054-1-ND	Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1.14	1.03	.82
74LCX16240TTR	497-1054-2-ND	Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	874.00/2,000		
74LCX16244TTR	497-1055-1-ND	Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	1.11	1.00	.80
74LCX16244TTR	497-1055-2-ND	Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	850.00/2,000		
74LCX16245TTR	497-1056-1-ND	LV CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.86	1.67	1.33
74LCX16245TTR	497-1056-2-ND	LV CMOS 16-Bit Bus Transceiver*	48-TSSOP	1372.00/2,000		
74LCX16373TTR	497-1058-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.11	1.00	.80
74LCX16373TTR	497-1058-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	850.00/2,000		
74LCX16374TTR	497-1059-1-ND	Low Voltage CMOS 16-Bit D-Type F/F	48-TSSOP	1.11	1.00	.80
74LCX16374TTR	497-1059-2-ND	Low Voltage CMOS 16-Bit D-Type F/F	48-TSSOP	972.00/2,000		
74LCX162244TTR	497-1053-1-ND	Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1.11	1.00	.80
74LCX162244TTR	497-1053-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	850.00/2,000		
74LCXH16245TTR	497-1070-1-ND	LV CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.21	1.08	.86
74LCXHR162245TTR	497-1071-1-ND	LV CMOS 16-Bit Bus Transceiver	48-TSSOP	1.21	1.08	.86
74LVC04AMTR	497-5777-1-ND	LV CMOS Hex Inverter High Perf.*	14-SOIC	.75	.61	.46
74LVC04AMTR	497-5777-2-ND	LV CMOS Hex Inverter High Perf.*	14-SOIC	530.00/2,500		
74LVC04ATTR	497-5778-1-ND	LV CMOS Hex Inverter High Perf.*	14-TSSOP	.92	.80	.63
74LVC04ATTR	497-5778-2-ND	LV CMOS Hex Inverter High Perf.*	14-TSSOP	762.50/2,500		
74LVC08AMTR	497-1073-1-ND	LV CMOS Quad 2-Input AND Gate	14-SOIC	.92	.80	.63
74LVC08AMTR	497-1073-2-ND	LV CMOS Quad 2-Input AND Gate	14-SOIC	762.50/2,500		
74LVC14ATTR	497-7104-1-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	.92	.80	.63
74LVC14ATTR	497-7104-2-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	762.50/2,500		
74LVC32ATTR	497-7106-1-ND	LV CMOS Quad 2-Input OR Gate*	14-TSSOP	.92	.80	.63
74LVC32ATTR	497-7106-2-ND	LV CMOS Quad 2-Input OR Gate*	14-TSSOP	762.50/2,500		
74LVC86AMTR	497-1078-1-ND	LV CMOS Quad Exclusive OR Gate	14-SOIC	.42	.34	.26
74LVC86AMTR	497-1078-2-ND	LV CMOS Quad Exclusive OR Gate	14-SOIC	297.50/2,500		
74LVC125ATTR	497-7103-1-ND	Tri-State LV CMOS Quad Bus Buffer*	14-TSSOP	.75	.61	.46
74LVC125ATTR	497-7103-2-ND	Tri-State LV CMOS Quad Bus Buffer*	14-TSSOP	530.00/2,500		
74LVC244ATTR	497-2919-1-ND	Tri-State LV CMOS Quad Bus Buffer*	20-TSSOP	.70	.60	.48
74LVC244ATTR	497-2919-2-ND	Tri-State LV CMOS Quad Bus Buffer*	20-TSSOP	572.50/2,500		
74LVC245ATTR	497-7105-1-ND	LV CMOS Octal Bus Transceiver*	20-TSSOP	2.06	1.77	1.45
74LVC245ATTR	497-7105-2-ND	LV CMOS Octal Bus Transceiver*	20-TSSOP	1985.00/2,500		
74LVC373AMTR	497-1076-1-ND	Octal D-Type Latch	20-SOIC	.70	.60	.48
74LVC373AMTR	497-1076-2-ND	Octal D-Type Latch	20-SOIC	253.00/1,000		
74LVC374ATTR	497-7107-1-ND	Octal D-Type F/F High Performance*	20-TSSOP	.70	.60	.48
74LVC374ATTR	497-7107-2-ND	Octal D-Type F/F High Performance*	20-TSSOP	572.50/2,500		
74LVC573AMTR	497-1077-1-ND	Octal D-Type Latch High Perf.*	20-SOIC	1.88	1.61	1.32
74LVC573AMTR	497-1077-2-ND	Octal D-Type Latch High Perf.*	20-SOIC	777.00/1,000		
74LVC573ATTR	497-7108-1-ND	Octal D-Type Latch High Performance*	20-TSSOP	1.88	1.61	1.32
74LVC573ATTR	497-7108-2-ND	Octal D-Type Latch High Performance*	20-TSSOP	1810.00/2,500		
74LVC161284TTR	497-1075-1-ND	LV High Speed IEEE 1284 Transceiver	48-TSSOP	3.12	2.81	2.29
74LVCZ161284ATTR	497-1079-1-ND	LV High Speed IEEE 1284 Transceiver	48-TSSOP	4.07	3.66	2.99
74LVCZ161284ATTR	497-1079-2-ND	LV High Speed IEEE 1284 Transceiver	48-TSSOP	3604.00/2,000		
74LVX00MTR	497-1080-1-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	.47	.37	.26
74LVX00MTR	497-1080-2-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	267.50/2,500		
74LVX00TTR	497-7109-1-ND	LV CMOS Quad 2-Input NAND Gate*	14-TSSOP	.75	.61	.46
74LVX00TTR	497-7109-2-ND	LV CMOS Quad 2-Input NAND Gate*	14-TSSOP	530.00/2,500		
74LVX04MTR	497-7110-1-ND	Low Voltage CMOS Hex Inverter*	14-SOP	.58	.47	.35
74LVX08MTR	497-1081-1-ND	LV CMOS Quad 2-Input AND Gate	14-SOIC	.61	.48	.33
74LVX08MTR	497-1081-2-ND	LV CMOS Quad 2-Input AND Gate	14-SOIC	347.50/2,500		
74LVX08TTR	497-7111-1-ND	LV CMOS Quad 2-Input AND Gate*	14-TSSOP	.75	.61	.46
74LVX08TTR	497-7111-2-ND	LV CMOS Quad 2-Input AND Gate*	14-TSSOP	530.00/2,500		
74LVX14MTR	497-1085-1-ND	Low Volt. CMOS Hex Schmitt Inverter	14-SOIC	.58	.47	.35
74LVX14TTR	497-7114-1-ND	Low Volt. CMOS Hex Schmitt Inverter*	14-TSSOP	.75	.61	.46
74LVX14TTR	497-7114-2-ND	Low Volt. CMOS Hex Schmitt Inverter*	14-TSSOP	530.00/2,500		
74LVX32MTR	497-7117-1-ND	LV CMOS Quad 2-Input OR Gate*	14-SOIC	.75	.61	.46
74LVX32MTR	497-7117-2-ND	LV CMOS Quad 2-Input OR Gate*	14-SOIC	530.00/2,500		
74LVX32TTR	497-7118-1-ND	LV CMOS Quad 2-Input OR Gate*	14-TSSOP	.75	.61	.46
74LVX32TTR	497-7118-2-ND	LV CMOS Quad 2-Input OR Gate*	14-TSSOP	530.00/2,500		
74LVX74TTR	497-7122-1-ND	LV CMOS Dual D-Type Flip-Flop*	14-TSSOP	.75	.61	.46
74LVX74TTR	497-7122-2-ND	LV CMOS Dual D-Type Flip-Flop*	14-TSSOP	530.00/2,500		
74LVX125TTR	497-7112-1-ND	Tri-St. LV Quad Bus Buffer*	14-TSSOP	.75	.61	.46
74LVX125TTR	497-7112-2-ND	Tri-St. LV Quad Bus Buffer*	14-TSSOP	530.00/2,500		
74LVX126MTR	497-1083-1-ND	Tri-State LV CMOS Quad Bus Buffer*	14-SOICN	.47	.37	.26
74LVX126MTR	497-1083-2-ND	Tri-State LV CMOS Quad Bus Buffer*	14-SOICN	267.50/2,500		
74LVX132MTR	497-1084-1-ND	Low Voltage CMOS Quad 2-Input Schmitt NAND Gate*	14-SOIC	.69	.56	.42
74LVX132MTR	497-1084-2-ND	Low Voltage CMOS Quad 2-Input Schmitt NAND Gate*	14-SOIC	487.50/2,500		
74LVX132TTR	497-7113-1-ND	Low Voltage CMOS Quad 2-Input Schmitt NAND Gate*	14-TSSOP	.81	.65	.49
74LVX132TTR	497-7113-2-ND	Low Voltage CMOS Quad 2-Input Schmitt NAND Gate*	14-TSSOP	570.00/2,500		
74LVX157MTR	497-4143-1-ND	Low Voltage Quad 2-Channel Mux	16-SOIC	.79	.68	.54
74LVX157MTR	497-4143-2-ND	Low Voltage Quad 2-Channel Mux	16-SOIC	770.00/2,500		
74LVX238TTR	497-7723-1-ND	LV CMOS 3-to-8 Line Decoder*	16-TSSOP	.96	.86	.69
74LVX238TTR	497-7723-2-ND	LV CMOS 3-to-8 Line Decoder*	16-TSSOP	882.50/2,500		
74LVX244MTR	497-1087-1-ND	Low Voltage CMOS Octal Bus Buffer	20-SOICW	1.28	1.15	.91
74LVX244MTR	497-1087-2-ND	Low Voltage CMOS Octal Bus Buffer	20-SOICW	504.00/1,000		
74LVX244TTR	497-2920-1-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	.75	.61	.46
74LVX244TTR	497-2920-2-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	530.00/2,500		
74LVX245TTR	497-7115-1-ND	Tri-State Low Voltage CMOS Octal Bus Transceiver*	20-TSSOP	1.60	1.43	1.14
74LVX245TTR	497-7115-2-ND	Tri-State Low Voltage CMOS Octal Bus Transceiver*	20-TSSOP	1470.00/2,500		
74LVX273TTR	497-7116-1-ND	LV CMOS Octal D-Type F/F*	20-TSSOP	.79	.68	.54
74LVX273TTR	497-7116-2-ND	LV CMOS Octal D-Type F/F*	20-TSSOP	650.00/2,500		
74LVX541TTR	497-7119-1-ND	LV CMOS Octal Bus Buffer*	20-TSSOP	1.40	1.26	1.00
74LVX541TTR	497-7119-2-ND	LV CMOS Octal Bus Buffer*	20-TSSOP	1287.50/2,500		
74LVX574TTR	497-7120-1-ND	LV CMOS Octal D-Type F/F*	20-TSSOP	1.48	1.33	1.06
74LVX574TTR	497-7120-2-ND	LV CMOS Octal D-Type F/F*	20-TSSOP	1362.50/2,500		
74LVX594TTR	497-7121-1-ND	LV CMOS 8-Bit Shift Register*	16-TSSOP	.74	.64	.51
74LVX594TTR	497-7121-2-ND	LV CMOS 8-Bit Shift Register*	16-TSSOP	610.00/2,500		
74LVX3245MTR	497-1089-1-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	2.06	1.77	1.45
74LVX3245MTR	497-1089-2-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	853.00/1,000		
74LVX3245TTR	497-6651-1-ND	Octal Bus Transceiver*	24-TSSOP	1.80	1.55	1.27
74LVX3245TTR	497-6651-2-ND	Octal Bus Transceiver*	24-TSSOP	1737.50/2,500		
74LVX4245MTR	497-1091-1-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	1.64	1.47	1.17
74LVX4245MTR	497-1091-2-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	647.00/1,000		
74LVX4245TTR	497-7724-1-ND	Octal Dual Supply Bus Transceiver*	24-TSSOP	1.56	1.40	1.11
74LVX4245TTR	497-7724-2-ND	Octal Dual Supply Bus Transceiver*	24-TSSOP	1435.00/2,500		
74LVX16244TTR	497-7722-1-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1.14	1.03	.82
74LVX16373TTR	497-1086-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.08	.97	.77
74LVX16373TTR	497-1086-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	826.00/2,000		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74LVXU04TTR	497-5880-1-ND	Low Voltage CMOS Hex Inverter, Single Stage*	14-TSSOP	.73	.55	.43
74LVXU04TTR	497-5880-2-ND	Low Voltage CMOS Hex Inverter Single Stage*	14-TSSOP	685.00/2,500		
74LX1G00CTR	497-7726-1-ND	Single 2-Input NAND Gate*	SOT-323-5	.79	.68	.54
74LX1G00CTR	497-7726-2-ND	Single 2-Input NAND Gate*	SOT-323-5	780.00/3,000		
74LX1G00STR	497-1246-1-ND	Single 2-Input NAND Gate	SOT-23-5	.79	.68	.54
74LX1G00STR	497-1246-2-ND	Single 2-Input NAND Gate	SOT-23-5	780.00/3,000		
74LX1G02CTR	497-6961-1-ND	Single 2-Input NOR Gate*	SOT-323-5	.61	.53	.42
74LX1G02STR	497-1247-1-ND	Single 2-Input NOR Gate*	SOT-23-5	.61	.53	.42
74LX1G04BJR	497-7727-1-ND	Low Voltage CMOS Single Inverter*	4-FlipChip	1.68	1.50	1.20
74LX1G04BJR	497-7727-2-ND	Low Voltage CMOS Single Inverter*	4-FlipChip	2935.00/5,000		
74LX1G04CTR	497-4027-1-ND	Low Voltage CMOS Single Inverter*	SOT-323-5	.56	.40	.27
74LX1G07CTR	497-7728-1-ND	Single Buffer/Driver*	SC70-5	.79	.68	.54
74LX1G07CTR	497-7728-2-ND	Single Buffer/Driver*	SC70-5	780.00/3,000		
74LX1G07STR	497-1251-1-ND	Single Buffer/Driver*	SOT-23-5	.56	.40	.27
74LX1G07STR	497-1251-2-ND	Single Buffer/Driver*	SOT-23-5	285.00/3,000		
74LX1G08CTR	497-4028-1-ND	LV CMOS Single 2-Input AND Gate*	SOT-323-5	.56	.40	.27
74LX1G08CTR	497-4028-2-ND	LV CMOS Single 2-Input AND Gate*	SOT-323-5	285.00/3,000		
74LX1G08STR	497-1252-1-ND	LV CMOS Single 2-Input AND Gate*	SOT-23-5	.56	.40	.27
74LX1G08STR	497-1252-2-ND	LV CMOS Single 2-Input AND Gate*	SOT-23-5	285.00/3,000		
74LX1G14CTR	497-4030-1-ND	LV CMOS Single Schmitt Inverter*	SOT-323-5	.56	.40	.27
74LX1G32CTR	497-4545-1-ND	LV CMOS Single 2-Input OR Gate*	SOT-323-5	.56	.40	.27
74LX1G32CTR	497-4545-2-ND	LV CMOS Single 2-Input OR Gate*	SOT-323-5	285.00/3,000		
74LX1G32STR	497-1257-1-ND	Single, 2 Input OR Gate	SOT-23-5	.56	.40	.27
74LX1G32STR	497-1257-2-ND	Single, 2 Input OR Gate	SOT-23-5	285.00/3,000		
74LX1G70CTR	497-4519-1-ND	Single Buffer, Non-Inverting*	SC70-5	.79	.68	.54
74LX1G70STR	497-1258-1-ND	Single Buffer, Non-Inverting*	SOT-23-5	.44	.35	.24
74LX1G70STR	497-1258-2-ND	Single Buffer, Non-Inverting*	SOT-23-5	303.00/3,000		
74LX1G86CTR	497-10035-1-ND	Single Exclusive OR Gate* ***NEW!***	SOT-323-5	.79	.68	.54
74LX1G86CTR	497-10035-2-ND	Single Exclusive OR Gate* ***NEW!***	SOT-323-5	780.00/3,000		
74LX1G86STR	497-1259-1-ND	Single Exclusive OR Gate*	SOT-23-5	.79	.68	.54
74LX1G86STR	497-1259-2-ND	Single Exclusive OR Gate*	SOT-23-5	780.00/3,000		
74LX1GU04CTR	497-4638-1-ND	Low Voltage CMOS Single Inverter*	SOT-323-5	.79	.68	.54
74LX1GU04CTR	497-4638-2-ND	Low Voltage CMOS Single Inverter*	SOT-323-5	780.00/3,000		
74LX1GU04STR	497-1260-1-ND	LV CMOS Single Inverter*	SOT-23-5	.79	.68	.54
74LX1GU04STR	497-1260-2-ND	LV CMOS Single Inverter*	SOT-23-5	780.00/3,000		
74LX1G126CTR	497-4029-1-ND	Tri-State Single Bus Buffer*	SC70-5	.77	.60	.51
74LX1G126CTR	497-4029-2-ND	Tri-State Single Bus Buffer*	SC70-5	714.00/3,000		
74V1G00CTR	497-4031-1-ND	Single 2-Input NAND Gate*	SOT-323-5	.81	.65	.49
74V1G00CTR	497-4031-2-ND	Single 2-Input NAND Gate*	SOT-323-5	684.00/3,000		
74V1G00STR	497-1261-1-ND	Single 2-Input NAND Gate*	SOT-23-5	.56	.40	.27
74V1G00STR	497-1261-2-ND	Single 2-Input NAND Gate*	SOT-23-5	285.00/3,000		
74V1G04CTR	497-4032-1-ND	Single Inverter*	SOT-323-5	.56	.40	.27
74V1G04CTR	497-4032-2-ND	Single Inverter*	SOT-323-5	285.00/3,000		
74V1G04STR	497-1264-1-ND	Single Inverter*	SOT-23-5	.56	.40	.27
74V1G04STR	497-1264-2-ND	Single Inverter*	SOT-23-5	285.00/3,000		
74V1G07STR	497-1266-1-ND	Single Buffer, Non-Inverting	SOT-23-5	.81	.65	.49
74V1G07STR	497-1266-2-ND	Single Buffer, Non-Inverting	SOT-23-5	684.00/3,000		
74V1G08CTR	497-4520-1-ND	Single 2-Input AND Gate*	SOT-323-5	.81	.65	.49
74V1G08CTR	497-4520-2-ND	Single 2-Input AND Gate*	SOT-323-5	684.00/3,000		
74V1G08STR	497-1267-1-ND	Single 2-Input AND Gate*	SOT-23-5	.56	.40	.27
74V1G08STR	497-1267-2-ND	Single 2-Input AND Gate*	SOT-23-5	285.00/3,000		
74V1G14CTR	497-4521-1-ND	Single Schmitt Inverter*	SOT-323-5	.56	.40	.27
74V1G14CTR	497-4521-2-ND	Single Schmitt Inverter*	SOT-323-5	285.00/3,000		
74V1G14STR	497-1270-1-ND	Single Schmitt Inverter*	SOT-23-5	.56	.40	.27
74V1G14STR	497-1270-2-ND	Single Schmitt Inverter	SOT-23-5	285.00/3,000		
74V1G32CTR	497-4522-1-ND	Single 2-Input OR Gate*	SOT-323-5	.56	.40	.27
74V1G32CTR	497-4522-2-ND	Single 2-Input OR Gate*	SOT-323-5	285.00/3,000		
74V1G32STR	497-1271-1-ND	Single 2-Input OR Gate	SOT-23-5	.56	.40	.27
74V1G32STR	497-1271-2-ND	Single 2-Input OR Gate	SOT-23-5	285.00/3,000		
74V1G66CTR	497-4035-1-ND	Single Bilateral Switch*	SOT-323-5	.56	.40	.27
74V1G66CTR	497-4035-2-ND	Single Bilateral Switch*	SOT-323-5	285.00/3,000		
74V1G66STR	497-1273-1-ND	Single Bilateral Switch	SOT-23-5	.56	.40	.27
74V1G66STR	497-1273-2-ND	Single Bilateral Switch	SOT-23-5	285.00/3,000		
74V1G70STR	497-1274-1-ND	Single Buffer, Non-Inverting*	SOT-23-5	.56	.40	.27
74V1G70STR	497-1274-2-ND	Single Buffer, Non-Inverting*	SOT-23-5	285.00/3,000		
74V1G77STR	497-1275-1-ND	Single D-Type Latch*	SOT-23-5	.53	.38	.25
74V1G77STR	497-1275-2-ND	Single D-Type Latch*	SOT-23-5	270.00/3,000		
74V1G79STR	497-1276-1-ND	Single Positive Edge Triggered D-Type Flip-Flop*	SOT-23-5	.77	.62	.47
74V1G79STR	497-1276-2-ND	Single Positive Edge Triggered D-Type Flip-Flop*	SOT-23-5	651.00/3,000		
74V1G86STR	497-1278-1-ND	Single, Exclusive OR Gate*	SOT-23-5	.56	.40	.27
74V1G86STR	497-1278-2-ND	Single, Exclusive OR Gate*	SOT-23-5	285.00/3,000		
74V1G125CTR	497-4033-1-ND	Tri-State Single Bus Buffer*	SC70-5	.43	.31	.21
74V1G125CTR	497-4033-2-ND	Tri-State Single Bus Buffer*	SC70-5	219.00/3,000		
74V1G125STR	497-1268-1-ND	Tri-State Single Bus Buffer*	SOT-23-5	.43	.31	.21
74V1G126STR	497-1269-1-ND	Tri-State Single Bus Buffer*	SOT-23-5	.62	.50	.38
74V1G126STR	497-1269-2-ND	Tri-State Single Bus Buffer*	SOT-23-5	528.00/3,000		
74V1G384STR	497-1272-1-ND	Single High Speed Bus Switch	SOT-23-5	.43	.31	.21
74V1GU04STR	497-1279-1-ND	Single Inverter*	SOT-23-5	.48	.34	.22
74V1T04STR	497-1283-1-ND	Single Inverter	SOT-23-5	.81	.65	.49
74V1T07STR	497-1285-1-ND	Single Buffer, Open Drain	SOT-23-5	.58	.47	.35
74V1T08CTR	497-4036-1-ND	Single 2-Input AND Gate*	SOT-323-5	.81	.65	.49
74V1T08STR	497-1286-1-ND	Single 2-Input AND Gate	SOT-23-5	.56	.40	.27
74V1T08STR	497-1286-2-ND	Single 2-Input AND Gate	SOT-23-5	285.00/3,000		
74V1T14CTR	497-4038-1-ND	Single Schmitt Inverter*	SOT-323-5	.56	.40	.27
74V1T14CTR	497-4038-2-ND	Single Schmitt Inverter*	SOT-323-5	285.00/3,000		
74V1T14STR	497-1289-1-ND	Single Schmitt Inverter*	SOT-23-5	.56	.40	.27
74V1T14STR	497-1289-2-ND	Single Schmitt Inverter*	SOT-23-5	285.00/3,000		
74V1T32STR	497-1290-1-ND	Single 2-Input OR Gate*	SOT-23-5	.44	.35	.24
74V1T32STR	497-1290-2-ND	Single 2-Input OR Gate*	SOT-23-5	303.00/3,000		
74V1T125CTR	497-4037-1-ND	Tri-State Single Bus Buffer*	SC70-5	.56	.40	.27
74V1T125CTR	497-4037-2-ND	Tri-State Single Bus Buffer*	SC70-5	285.00/3,000		
74V2G00STR	497-1298-1-ND	Dual 2-Input NAND Gate	SOT-23-8	.64	.56	.44
74V2G00STR	497-1298-2-ND	Dual 2-Input NAND Gate	SOT-23-8	636.00/3,000		
74V2G32STR	497-4523-1-ND	Dual 2-Input OR Gate*	SOT-23-8	.64	.56	.44
74V2G126STR	497-1305-1-ND	Tri-State Dual Bus Buffer	SOT-23-8	.58	.47	.35
74V2G126STR	497-1305-2-ND	Tri-State Dual Bus Buffer	SOT-23-8	489.00/3,000		
74V2T04STR	497-1311-1-ND	Triple Inverter	SOT-23-8	.58	.47	.35
74V2T08STR	497-1314-1-ND	Dual 2-Input AND Gate*	SOT-23-8	.58	.47	.35
74V2T08STR	497-1314-2-ND	Dual 2-Input AND Gate*	SOT-23-8	489.00/3,000		
74V2T125STR	497-1315-1-ND	Tri-State Dual Bus Buffer	SOT-23-8	.58	.47	.35
74V2T125STR	497-1315-2-ND	Tri-State Dual Bus Buffer	SOT-23-8	489.00/3,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74VCX16244TTR	497-1095-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	1.71	1.47	1.20
74VCX16244TTR	497-1095-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	1416.00/2,000		
74VCX16245TTR	497-3706-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.71	1.47	1.20
74VCX16245TTR	497-3706-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1416.00/2,000		
74VCX16374TTR	497-1097-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1.71	1.47	1.20
74VCX16374TTR	497-1097-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1416.00/2,000		
74VCX1632245TBR	497-4145-1-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	3.66	3.30	2.69
74VCX1632245TBR	497-4145-2-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	4869.00/3,000		
74VCXH16244TTR	497-1098-1-ND	Tri-St. LV CMOS 16-Bit Bus Buffer	48-TSSOP	1.71	1.47	1.20
74VCXH16244TTR	497-1098-2-ND	Tri-St. LV CMOS 16-Bit Bus Buffer	48-TSSOP	1620.00/2,000		
74VCXH16245TTR	497-1099-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.71	1.47	1.20
74VCXH1632245TBR	497-4146-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator	42-TFBGA	2.99	2.70	2.20
74VHC02MTR	497-7125-1-ND	Quad 2-Input NOR Gate*	14-SOIC	.83	.72	.57
74VHC02MTR	497-7125-2-ND	Quad 2-Input NOR Gate*	14-SOIC	685.00/2,500		
74VHC02TTR	497-7126-1-ND	Quad 2-Input NOR Gate*	14-TSSOP	.83	.72	.57
74VHC02TTR	497-7126-2-ND	Quad 2-Input NOR Gate*	14-TSSOP	685.00/2,500		
74VHC05TTR	497-4148-1-ND	Hex Inverter, Open Drain*	14-TSSOP	.75	.61	.46
74VHC05TTR	497-4148-2-ND	Hex Inverter, Open Drain*	14-TSSOP	530.00/2,500		
74VHC08MTR	497-1102-1-ND	Quad 2-Input AND Gate*	14-SOIC	.83	.72	.57
74VHC08MTR	497-1102-2-ND	Quad 2-Input AND Gate*	14-SOIC	685.00/2,500		
74VHC08TTR	497-7127-1-ND	Quad 2-Input AND Gate*	14-TSSOP	.70	.60	.48
74VHC08TTR	497-7127-2-ND	Quad 2-Input AND Gate*	14-TSSOP	572.50/2,500		
74VHC14MTR	497-1104-1-ND	Hex Schmitt Inverter	14-SOIC	.57	.45	.31
74VHC14TTR	497-7130-1-ND	Hex Schmitt Inverter*	14-TSSOP	.75	.61	.46
74VHC14TTR	497-7130-2-ND	Hex Schmitt Inverter*	14-TSSOP	530.00/2,500		
74VHC27TTR	497-7136-1-ND	Triple 3-Input NOR Gate*	14-TSSOP	.75	.61	.46
74VHC27TTR	497-7136-2-ND	Triple 3-Input NOR Gate*	14-TSSOP	530.00/2,500		
74VHC32TTR	497-7137-1-ND	Quad 2-Input OR Gate*	14-TSSOP	.75	.61	.46
74VHC32TTR	497-7137-2-ND	Quad 2-Input OR Gate*	14-TSSOP	530.00/2,500		
74VHC74TTR	497-7140-1-ND	Dual D-Type Flip-Flop*	14-TSSOP	.92	.80	.63
74VHC74TTR	497-7140-2-ND	Dual D-Type Flip-Flop*	14-TSSOP	762.50/2,500		
74VHC86TTR	497-7141-1-ND	Quad Exclusive OR Gate*	14-TSSOP	.72	.58	.43
74VHC86TTR	497-7141-2-ND	Quad Exclusive OR Gate*	14-TSSOP	505.00/2,500		
74VHC125TTR	497-7128-1-ND	Tri-State Quad Bus Buffer*	14-TSSOP	.75	.61	.46
74VHC125TTR	497-7128-2-ND	Tri-State Quad Bus Buffer*	14-TSSOP	530.00/2,500		
74VHC138MTR	497-1103-1-ND	3-to-8 Line Decoder	16-SOIC	.86	.75	.59
74VHC138TTR	497-7129-1-ND	3-to-8 Line Decoder*	16-TSSOP	.96	.86	.69
74VHC138TTR	497-7129-2-ND	3-to-8 Line Decoder*	16-TSSOP	882.50/2,500		
74VHC157TTR	497-7131-1-ND	Quad 2-Channel Mux*	16-TSSOP	1.02	.88	.70
74VHC157TTR	497-7131-2-ND	Quad 2-Channel Mux*	16-TSSOP	837.50/2,500		
74VHC174TTR	497-7132-1-ND	Hex D-Type Flip-Flop*	16-TSSOP	1.00	.90	.72
74VHC174TTR	497-7132-2-ND	Hex D-Type Flip-Flop*	16-TSSOP	920.00/2,500		
74VHC238MTR	497-6620-1-ND	3-to-8 Line Decoder*	16-SOIC	1.00	.90	.72
74VHC238MTR	497-6620-2-ND	3-to-8 Line Decoder*	16-SOIC	920.00/2,500		
74VHC238TTR	497-7133-1-ND	3-to-8 Line Decoder*	16-TSSOP	1.00	.90	.72
74VHC238TTR	497-7133-2-ND	3-to-8 Line Decoder*	16-TSSOP	920.00/2,500		
74VHC240MTR	497-2925-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.58	.47	.35
74VHC244MTR	497-2926-1-ND	Tri-State Octal Bus Buffer*	20-SOICW	1.28	1.15	.91
74VHC244MTR	497-2926-2-ND	Tri-State Octal Bus Buffer*	20-SOICW	504.00/1,000		
74VHC244TTR	497-7134-1-ND	Tri-State Octal Bus Buffer*	20-TSSOP	.79	.68	.54
74VHC244TTR	497-7134-2-ND	Tri-State Octal Bus Buffer*	20-TSSOP	650.00/2,500		
74VHC245MTR	497-1105-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.92	.80	.63
74VHC245MTR	497-1105-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	334.00/1,000		
74VHC245TTR	497-7135-1-ND	Tri-St. Octal Bus Transceiver*	20-TSSOP	.79	.68	.54
74VHC245TTR	497-7135-2-ND	Tri-St. Octal Bus Transceiver*	20-TSSOP	650.00/2,500		
74VHC273MTR	497-1106-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	1.28	1.15	.91
74VHC273MTR	497-1106-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	504.00/1,000		
74VHC273TTR	497-6621-1-ND	Octal D-Type Flip-Flop with Clear*	20-TSSOP	.79	.68	.54
74VHC273TTR	497-6621-2-ND	Octal D-Type Flip-Flop with Clear*	20-TSSOP	650.00/2,500		
74VHC541TTR	497-7138-1-ND	Tri-State Octal Bus Buffer*	20-TSSOP	1.40	1.26	1.00
74VHC541TTR	497-7138-2-ND	Tri-State Octal Bus Buffer*	20-TSSOP	1287.50/2,500		
74VHC574TTR	497-7139-1-ND	Tri-State Octal D-Type F/F*	20-TSSOP	1.48	1.33	1.06
74VHC574TTR	497-7139-2-ND	Tri-State Octal D-Type F/F*	20-TSSOP	1362.50/2,500		
74VHC594MTR	497-7731-1-ND	8-Bit Shift Register*	16-SOIC	1.64	1.47	1.17
74VHC594MTR	497-7731-2-ND	8-Bit Shift Register*	16-SOIC	1507.50/2,500		
74VHC16240TTR	497-2924-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.11	1.00	.80
74VHC16240TTR	497-2924-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	850.00/2,000		
74VHC16244TTR	497-7730-1-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1.21	1.08	.86
74VHCT00AMTR	497-7142-1-ND	Quad 2-Input NAND Gate*	14-SOIC	.58	.47	.35
74VHCT00AMTR	497-7142-2-ND	Quad 2-Input NAND Gate*	14-SOIC	407.50/2,500		
74VHCT00ATTR	497-7143-1-ND	Quad 2-Input NAND Gate*	14-TSSOP	.83	.72	.57
74VHCT00ATTR	497-7143-2-ND	Quad 2-Input NAND Gate*	14-TSSOP	685.00/2,500		
74VHCT02AMTR	497-7144-1-ND	Quad 2-Input NOR Gate*	14-SOIC	.75	.61	.46
74VHCT03ATTR	497-7732-1-ND	Quad 2-Input Open Drain NAND Gate*	14-TSSOP	.88	.76	.60
74VHCT03ATTR	497-7732-2-ND	Quad 2-Input Open Drain NAND Gate*	14-TSSOP	725.00/2,500		
74VHCT08AMTR	497-7145-1-ND	Quad 2-Input AND Gate*	14-SOIC	.83	.72	.57
74VHCT08AMTR	497-7145-2-ND	Quad 2-Input AND Gate*	14-SOIC	685.00/2,500		
74VHCT08ATTR	497-7146-1-ND	Quad 2-Input AND Gate*	14-TSSOP	.75	.61	.46
74VHCT08ATTR	497-7146-2-ND	Quad 2-Input AND Gate*	14-TSSOP	530.00/2,500		
74VHCT32ATTR	497-7153-1-ND	Quad 2-Input OR Gate*	14-TSSOP	.75	.61	.46
74VHCT32ATTR	497-7153-2-ND	Quad 2-Input OR Gate*	14-TSSOP	530.00/2,500		
74VHCT138ATTR	497-7148-1-ND	3-to-8 Line Decoder*	16-TSSOP	.70	.60	.48
74VHCT138ATTR	497-7148-2-ND	3-to-8 Line Decoder*	16-TSSOP	572.50/2,500		
74VHCT238ATTR	497-7149-1-ND	3-to-8 Line Decoder*	16-TSSOP	.70	.60	.48
74VHCT238ATTR	497-7149-2-ND	3-to-8 Line Decoder*	16-TSSOP	572.50/2,500		
74VHCT244AMTR	497-2928-1-ND	Tri-State Octal Bus Buffer	20-SOIC	1.24	1.11	.89
74VHCT244AMTR	497-2928-2-ND	Tri-State Octal Bus Buffer	20-SOIC	489.00/1,000		
74VHCT541AMTR	497-2929-1-ND	Tri-State Octal Bus Buffer*	20-SOIC	.81	.65	.49
74VHCT541ATTR	497-10340-1-ND	Tri-State Octal Bus Buffer* ***NEW!***	20-TSSOP	.79	.68	.54
74VHCT541ATTR	497-10340-2-ND	Tri-State Octal Bus Buffer* ***NEW!***	20-TSSOP	650.00/2,500		
74VHCT16373ATTR	497-1107-1-ND	16-Bit D-Type Latch*	48-TSSOP	1.11	1.00	.80
74VHCT16373ATTR	497-1107-2-ND	16-Bit D-Type Latch*	48-TSSOP	850.00/2,000		
74VHCU04MTR	497-6844-1-ND	Single Stage Hex Inverter*	14-SOIC	.75	.61	.46
74VHCU04MTR	497-6844-2-ND	Single Stage Hex Inverter*	14-SOIC	530.00/2,500		
HCF4001BEY	497-1340-5-ND	Quad 2-Input NOR Gate*	14-Dip	.46	.39	.30

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
HCF4001M013TR	497-1110-1-ND	Quad 2-Input NOR Gate	14-SOIC	.50	.40	.30
HCF4001M013TR	497-1110-2-ND	Quad 2-Input NOR Gate	14-SOIC	350.00/2,500		
HCF4007UBEY	497-7234-5-ND	Dual Complementary Pair Plus Inverter*	14-Dip	.72	.63	.49
HCF4010M013TR	497-6639-1-ND	Non-Inverting Hex Buffer/ Converter*	16-SOICN	.75	.61	.46
HCF4010M013TR	497-6639-2-ND	Non-Inverting Hex Buffer/ Converter*	16-SOICN	530.00/2,500		
HCF4011BEY	497-1345-5-ND	Quad 2-Input NAND Gate	14-Dip	.63	.54	.40
HCF4011M013TR	497-1114-1-ND	Quad 2-Input NAND Gate	14-SOIC	.57	.45	.31
HCF4011M013TR	497-1114-2-ND	Quad 2-Input NAND Gate	14-SOIC	325.00/2,500		
HCF4013BEY	497-1346-5-ND	Dual D-Type Flip-Flop*	14-Dip	.67	.57	.43
HCF4013M013TR	497-1115-1-ND	Dual D-Type Flip-Flop	14-SOIC	.52	.42	.32
HCF4014BEY	497-1347-5-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-Dip	1.21	1.08	.86
HCF4014M013TR	497-1116-1-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	.70	.60	.48
HCF4014M013TR	497-1116-2-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	572.50/2,500		
HCF4015BEY	497-1348-5-ND	Dual 4-Stage Static Shift Register*	16-Dip	.37	.31	.24
HCF4015M013TR	497-1117-1-ND	Dual 4-Stage Static Shift Register	16-SOIC	.57	.50	.39
HCF4016BEY	497-1349-5-ND	Quad Bilateral Switch*	14-Dip	.65	.55	.42
HCF4016M013TR	497-1118-1-ND	Quad Bilateral Switch	14-SOIC	.57	.45	.31
HCF4017BEY	497-1350-5-ND	Decade Counter w/10 Decoded Output	16-Dip	.72	.63	.49
HCF4017M013TR	497-1119-1-ND	Decade Counter with 10 Decoded Output*	16-SOIC	.70	.60	.48
HCF4017M013TR	497-1119-2-ND	Decade Counter with 10 Decoded Output*	16-SOIC	572.50/2,500		
HCF4020BEY	497-1351-5-ND	Ripple-Carry Binary Counter/Divider 14-Stage*	16-Dip	.82	.70	.52
HCF4020M013TR	497-7235-1-ND	Ripple-Carry Binary Counter/Divider 14-Stage*	16-SOIC	.70	.60	.48
HCF4020M013TR	497-7235-2-ND	Ripple-Carry Binary Counter/Divider 14-Stage*	16-SOIC	572.50/2,500		
HCF4021BEY	497-1352-5-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.78	.66	.50
HCF4021M013TR	497-1120-1-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	.70	.60	.48
HCF4021M013TR	497-1120-2-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	572.50/2,500		
HCF4024BEY	497-1353-5-ND	7-Stage Ripple-Carry Binary Counter/ Divider	14-Dip	.72	.61	.46
HCF4024M013TR	497-1121-1-ND	7-Stage Ripple-Carry Binary Counter/ Divider*	14-SOIC	.61	.48	.33
HCF4024M013TR	497-1121-2-ND	7-Stage Ripple-Carry Binary Counter/ Divider*	14-SOIC	347.50/2,500		
HCF4025BEY	497-7236-5-ND	Triple 3-Input NOR Gate*	14-Dip	.72	.63	.49
HCF4025M013TR	497-7237-1-ND	Triple 3-Input NOR Gate*	14-SOIC	.58	.47	.35
HCF4025M013TR	497-7237-2-ND	Triple 3-Input NOR Gate*	14-SOIC	407.50/2,500		
HCF4028BEY	497-1354-5-ND	BCD to Decimal Decoder	16-Dip	.50	.43	.32
HCF4030BEY	497-1355-5-ND	Quad Exclusive OR Gate	14-Dip	.67	.57	.43
HCF4030M013TR	497-1123-1-ND	Quad Exclusive OR Gate*	14-SOIC	.61	.48	.33
HCF4030M013TR	497-1123-2-ND	Quad Exclusive OR Gate*	14-SOIC	347.50/2,500		
HCF4040BEY	497-1356-5-ND	12-Stage Ripple-Carry Binary Counter/ Divider*	16-Dip	.85	.72	.54
HCF4040M013TR	497-1124-1-ND	12-Stage Ripple-Carry Binary Counter/ Divider*	16-SOIC	.70	.60	.48
HCF4040M013TR	497-1124-2-ND	12-Stage Ripple-Carry Binary Counter/ Divider*	16-SOIC	572.50/2,500		
HCF4041UM013TR	497-7752-1-ND	Quad True/Complement Buffer*	14-SOICN	.65	.57	.44
HCF4042M013TR	497-1125-1-ND	Quad Clocked D-Latch	16-SOIC	.55	.44	.33
HCF4042M013TR	497-1125-2-ND	Quad Clocked D-Latch	16-SOIC	387.50/2,500		
HCF4047BEY	497-1358-5-ND	LP Monostable/Astable Multivibrator	14-Dip	.74	.62	.47
HCF4047M013TR	497-1126-1-ND	LP Monostable/Astable Multivibrator*	14-SOIC	.75	.61	.46
HCF4047M013TR	497-1126-2-ND	LP Monostable/Astable Multivibrator*	14-SOIC	530.00/2,500		
HCF4049UBEY	497-1359-5-ND	Hex Buffer/Converter*	16-Dip	.68	.58	.44
HCF4049UM013TR	497-1127-1-ND	Hex Buffer/Converter*	16-SOICN	.61	.49	.37
HCF4049UM013TR	497-1127-2-ND	Hex Buffer/Converter*	16-SOICN	430.00/2,500		
HCF4050BEY	497-1360-5-ND	Hex Buffer/Converter	16-Dip	.69	.59	.44
HCF4050M013TR	497-1128-1-ND	Hex Buffer/Converter	16-SOICN	.69	.56	.42
HCF4051BEY	497-1361-5-ND	8-Channel Analog Mux/Demux*	16-Dip	.64	.54	.41
HCF4051M013TR	497-1129-1-ND	8-Channel Analog Mux/Demux*	16-SOIC	.56	.45	.34
HCF4051M013TR	497-1129-2-ND	8-Channel Analog Mux/Demux*	16-SOIC	392.50/2,500		
HCF4052BEY	497-1362-5-ND	Diff. 4-Channel Analog Mux/Demux	16-Dip	.69	.59	.44
HCF4052M013TR	497-1130-1-ND	Diff. 4-Channel Analog Mux/Demux*	16-SOIC	.56	.45	.34
HCF4052M013TR	497-1130-2-ND	Diff. 4-Channel Analog Mux/Demux*	16-SOIC	392.50/2,500		
HCF4053BEY	497-1363-5-ND	Triple 2-Channel Analog Mux/Demux*	16-Dip	.61	.52	.39
HCF4053BTTR	497-2383-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.57	.50	.39
HCF4053M013TR	497-1131-1-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.80	.64	.48
HCF4053M013TR	497-1131-2-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	562.50/2,500		
HCF4056BEY	497-1364-5-ND	BCD-to-7 Segment Decoder/Driver	16-Dip	.88	.78	.60
HCF4056M013TR	497-1132-1-ND	BCD-to-7 Segment Decoder/Driver*	16-SOIC	.79	.68	.54
HCF4056M013TR	497-1132-2-ND	BCD-to-7 Segment Decoder/Driver*	16-SOIC	650.00/2,500		
HCF4060BEY	497-1365-5-ND	14-Stage Ripple Carry Binary Counter/ Divider and Oscillator	16-Dip	.67	.57	.43
HCF4060M013TR	497-1133-1-ND	14-Stage Ripple Carry Binary Counter/ Divider and Oscillator	16-SOIC	.69	.56	.42
HCF4060M013TR	497-1133-2-ND	14-Stage Ripple Carry Binary Counter/ Divider and Oscillator	16-SOIC	487.50/2,500		
HCF4066BEY	497-1366-5-ND	Quad Bilateral Switch	14-Dip	.63	.53	.40
HCF4066M013TR	497-1134-1-ND	Quad Bilateral Switch	14-SOIC	.57	.45	.31
HCF4066M013TR	497-1134-2-ND	Quad Bilateral Switch	14-SOIC	325.00/2,500		
HCF4069UBEY	497-1367-5-ND	Hex Inverter	14-Dip	.60	.51	.38
HCF4069UM013TR	497-1136-1-ND	Hex Inverter	14-SOIC	.57	.45	.31
HCF4069UM013TR	497-1136-2-ND	Hex Inverter	14-SOIC	325.00/2,500		
HCF4070BEY	497-1368-5-ND	Quad Exclusive OR Gate	14-Dip	.67	.57	.43
HCF4070M013TR	497-1137-1-ND	Quad Exclusive OR Gate	14-SOIC	.50	.40	.30
HCF4070M013TR	497-1137-2-ND	Quad Exclusive OR Gate	14-SOIC	350.00/2,500		
HCF4071BEY	497-1369-5-ND	Quad 2-Input OR Gate	14-Dip	.37	.31	.24
HCF4071M013TR	497-1138-1-ND	Quad 2-Input OR Gate	14-SOIC	.47	.37	.26
HCF4071M013TR	497-1138-2-ND	Quad 2-Input OR Gate	14-SOIC	340.00/2,500		
HCF4073BEY	497-1370-5-ND	Triple 3-Input AND Gate	14-Dip	.50	.43	.32
HCF4075BEY	497-7238-5-ND	Triple 3-Input OR Gate*	14-Dip	.54	.47	.37
HCF4077BEY	497-7239-5-ND	Quad Exclusive NOR Gate*	14-Dip	.67	.57	.43

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HCF4077M013TR	497-7240-2-ND	Quad Exclusive NOR Gate*	14-SOIC	650.00/2,500		
HCF4081BEY	497-1371-5-ND	Quad 2-Input AND Gate	14-Dip	.67	.56	.42
HCF4081M013TR	497-1140-1-ND	Quad 2-Input AND Gate*	14-SOIC	.61	.48	.33
HCF4081M013TR	497-1140-2-ND	Quad 2-Input AND Gate*	14-SOIC	347.50/2,500		
HCF4093BEY	497-1372-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.40	.30
HCF4093M013TR	497-1141-1-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	.57	.45	.31
HCF4093M013TR	497-1141-2-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	325.00/2,500		
HCF4094BEY	497-1373-5-ND	8-Stage Shift and Store Bus Register	16-Dip	.51	.43	.33
HCF4094M013TR	497-1142-1-ND	8-Stage Shift and Store Bus Register*	16-SOIC	.64	.51	.39
HCF4094M013TR	497-1142-2-ND	8-Stage Shift and Store Bus Register*	16-SOIC	450.00/2,500		
HCF4098M013TR	497-7241-1-ND	Dual Mono Multivibrator*	16-SOIC	.81	.65	.49
HCF4098M013TR	497-7241-2-ND	Dual Mono Multivibrator*	16-SOIC	570.00/2,500		
HCF4099BEY	497-1374-5-ND	8-Bit Addressable Latch	16-Dip	.68	.60	.46
HCF4099M013TR	497-1143-1-ND	8-Bit Addressable Latch*	16-SOIC	.70	.60	.48
HCF4099M013TR	497-1143-2-ND	8-Bit Addressable Latch*	16-SOIC	572.50/2,500		
HCF4511BEY	497-1375-5-ND	BCD-to-7 Seg. Latch/Decoder/Driver*	16-Dip	.52	.46	.36
HCF4518BEY	497-7242-5-ND	Dual BCD Up Counter*	16-Dip	.62	.54	.42
HCF4518M013TR	497-7243-1-ND	Dual BCD Up Counter*	16-SOIC	.58	.47	.35
HCF4518M013TR	497-7243-2-ND	Dual BCD Up Counter*	16-SOIC	407.50/2,500		
HCF4520BEY	497-1376-5-ND	Dual Binary Up Counter	16-Dip	.49	.43	.33
HCF4538BEY	497-1378-5-ND	Dual Monostable Multivibrator	16-Dip	.69	.59	.44
HCF4538M013TR	497-1146-1-ND	Dual Monostable Multivibrator*	16-SOIC	.64	.51	.39
HCF4538M013TR	497-1146-2-ND	Dual Monostable Multivibrator*	16-SOIC	450.00/2,500		
HCF4541BEY	497-1379-5-ND	Programmable Timer	14-Dip	.58	.49	.37
HCF4541M013TR	497-1147-1-ND	Programmable Timer	14-SOIC	.64	.51	.39
HCF4541M013TR	497-1147-2-ND	Programmable Timer	14-SOIC	450.00/2,500		
HCF4555BEY	497-1380-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.72	.63	.49
HCF4555M013TR	497-7244-1-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	.79	.68	.54
HCF4555M013TR	497-7244-2-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	650.00/2,500		
HCF4556M013TR	497-4040-1-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	.58	.47	.35
HCF4556M013TR	497-4040-2-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	487.50/2,500		
HCF4585BEY	497-7245-5-ND	4-Bit Magnitude Comparator*	16-Dip	.92	.82	.65
HCF40106BEY	497-1342-5-ND	Hex Schmitt Trigger*	14-Dip	.65	.55	.42
HCF40106M013TR	497-1111-1-ND	Hex Schmitt Trigger*	14-SOIC	.55	.44	.33
HCF40106M013TR	497-1111-2-ND	Hex Schmitt Trigger*	14-SOIC	387.50/2,500		
HCF40109BEY	497-1344-5-ND	Quad Low-to-High Volt. Level Shifter	16-Dip	.55	.49	.38
M22100B1	497-7338-5-ND	4x4 Crosspoint Switch*	16-Dip	.96	.85	.67
M74HC00B1R	497-1745-5-ND	Quad 2-Input NAND Gate*	14-Dip	.48	.40	.30
M74HC00RM13TR	497-1746-1-ND	Quad 2-Input NAND Gate	14-SOIC	.57	.45	.31
M74HC00RM13TR	497-1746-2-ND	Quad 2-Input NAND Gate	14-SOIC	325.00/2,500		
M74HC00TTR	497-7339-1-ND	Quad 2-Input NAND Gate*	14-TSSOP	.79	.68	.54
M74HC00TTR	497-7339-2-ND	Quad 2-Input NAND Gate*	14-TSSOP	650.00/2,500		
M74HC02B1R	497-1747-5-ND	Quad 2-Input NOR Gate	14-Dip	.48	.40	.30
M74HC02RM13TR	497-1748-1-ND	Quad 2-Input NOR Gate	14-SOIC	.57	.45	.31
M74HC02RM13TR	497-1748-2-ND	Quad 2-Input NOR Gate	14-SOIC	325.00/2,500		
M74HC03B1R	497-1749-5-ND	Quad 2-Input Open Drain NAND Gate*	14-Dip	.64	.54	.41
M74HC03RM13TR	497-1750-1-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC	.61	.48	.33
M74HC04B1R	497-1751-5-ND	Hex Inverter*	14-Dip	.71	.60	.45
M74HC04RM13TR	497-1752-1-ND	Hex Inverter*	14-SOIC	.57	.45	.31
M74HC04RM13TR	497-1752-2-ND	Hex Inverter*	14-SOIC	325.00/2,500		
M74HC08B1R	497-1755-5-ND	Quad 2-Input AND Gate*	14-Dip	.48	.40	.30
M74HC08RM13TR	497-1756-1-ND	Quad 2-Input AND Gate	14-SOIC	.57	.45	.31
M74HC10B1R	497-1759-5-ND	Triple 3-Input NAND Gate	14-Dip	.67	.56	.42
M74HC10RM13TR	497-1760-1-ND	Triple 3-Input NAND Gate	14-SOIC	.61	.48	.33
M74HC10RM13TR	497-1760-2-ND	Triple 3-Input NAND Gate	14-SOIC	347.50/2,500		
M74HC11B1R	497-1761-5-ND	Triple 3-Input AND Gate*	14-Dip	.46	.39	.30
M74HC14B1R	497-1777-5-ND	Hex Schmitt Inverter*	14-Dip	.48	.40	.30
M74HC14RM13TR	497-1778-1-ND	Hex Schmitt Inverter*	14-SOIC	.57	.45	.31
M74HC14RM13TR	497-1778-2-ND	Hex Schmitt Inverter*	14-SOIC	325.00/2,500		
M74HC14TTR	497-7347-1-ND	Hex Schmitt Inverter*	14-TSSOP	.75	.61	.46
M74HC14TTR	497-7347-2-ND	Hex Schmitt Inverter*	14-TSSOP	530.00/2,500		
M74HC20B1R	497-1795-5-ND	Dual 4-Input NAND Gate*	14-Dip	.55	.47	.35
M74HC27RM13TR	497-7364-1-ND	Triple 3-Input NOR Gate*	14-SOIC	.74	.64	.51
M74HC27RM13TR	497-7364-2-ND	Triple 3-Input NOR Gate*	14-SOIC	610.00/2,500		
M74HC27TTR	497-6460-1-ND	Triple 3-Input NOR Gate*	14-TSSOP	.70	.60	.48
M74HC27TTR	497-6460-2-ND	Triple 3-Input NOR Gate*	14-TSSOP	572.50/2,500		
M74HC32B1R	497-1819-5-ND	Quad 2-Input OR Gate*	14-Dip	.64	.54	.41
M74HC32RM13TR	497-1820-1-ND	Quad 2-Input OR Gate*	14-SOIC	.57	.45	.31
M74HC32RM13TR	497-1820-2-ND	Quad 2-Input OR Gate*	14-SOIC	325.00/2,500		
M74HC51B1R	497-1870-5-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-Dip	.72	.63	.49
M74HC51RM13TR	497-1871-1-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC	.79	.68	.54
M74HC73B1R	497-1883-5-ND	Dual J-K Flip-Flop*	14-Dip	.84	.74	.57
M74HC73RM13TR	497-1884-1-ND	Dual J-K Flip-Flop	14-SOIC	.58	.47	.35
M74HC73RM13TR	497-1884-2-ND	Dual J-K Flip-Flop	14-SOIC	407.50/2,500		
M74HC73TTR	497-7390-1-ND	Dual J-K Flip-Flop*	14-TSSOP	.75	.61	.46
M74HC73TTR	497-7390-2-ND	Dual J-K Flip-Flop*	14-TSSOP	530.00/2,500		
M74HC74B1R	497-1885-5-ND	Dual D-Type Flip-Flop*	14-Dip	.48	.40	.30
M74HC74RM13TR	497-1886-1-ND	Dual D-Type Flip-Flop	14-SOIC	.50	.40	.30
M74HC74TTR	497-7391-1-ND	Dual D-Type Flip-Flop*	14-TSSOP	.81	.70	.56
M74HC74TTR	497-7391-2-ND	Dual D-Type Flip-Flop*	14-TSSOP	667.50/2,500		
M74HC85RM13TR	497-1888-1-ND	4-Bit Magnitude Comparator	16-SOIC	.49	.40	.30
M74HC86B1R	497-1889-5-ND	Quad Exclusive OR Gate*	14-Dip	.65	.55	.42
M74HC86RM13TR	497-7392-1-ND	Quad Exclusive OR Gate*	14-SOIC	.70	.60	.48
M74HC86RM13TR	497-7392-2-ND	Quad Exclusive OR Gate*	14-SOIC	572.50/2,500		
M74HC112B1R	497-7340-5-ND	Dual J-K Flip-Flop*	16-Dip	.58	.52	.40
M74HC123B1R	497-1763-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.85	.72	.54
M74HC123RM13TR	497-1764-1-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	.99	.89	.71
M74HC123TTR	497-7342-1-ND	Dual Retriggerable Mono Multivibrator*	16-TSSOP	.70	.60	.48
M74HC123TTR	497-7342-2-ND	Dual Retriggerable Mono Multivibrator*	16-TSSOP	572.50/2,500		
M74HC125B1R	497-1765-5-ND	Tri-State Quad Bus Buffer	14-Dip	.67	.56	.42
M74HC125RM13TR	497-1766-1-ND	Tri-State Quad Bus Buffer*	14-SOICN	.57	.45	.31
M74HC125RM13TR	497-1766-2-ND	Tri-State Quad Bus Buffer*	14-SOICN	325.00/2,500		
M74HC126B1R	497-7343-5-ND	Tri-State Quad Bus Buffer*	14-Dip	.84	.74	.57
M74HC126RM13TR	497-7344-1-ND	Tri-State Quad Bus Buffer*	14-SOICN	.75	.61	.46
M74HC126RM13TR	497-7344-2-ND	Tri-State Quad Bus Buffer*	14-SOICN	530.00/2,500		
M74HC126TTR	497-7345-1-ND	Tri-State Quad Bus Buffer*	14-TSSOP	.75	.61	.46
M74HC126TTR	497-7345-2-ND	Tri-State Quad Bus Buffer*	14-TSSOP	530.00/2,500		
M74HC132B1R	497-1767-5-ND	Quad 2-Input Schmitt NAND Gate*	14-Dip	.66	.56	.42
M74HC132RM13TR	497-1768-1-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	.67	.54	.40
M74HC132RM13TR	497-1768-2-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	470.00/2,500		
M74HC132TTR	497-7346-1-ND	Quad 2-Input Schmitt NAND Gate*	14-TSSOP	.75	.61	.46
M74HC132TTR	497-7346-2-ND	Quad 2-Input Schmitt NAND Gate*	14-TSSOP	530.00/2,500		
M74HC133B1R	497-1769-5-ND	13-Input NAND Gate*	16-Dip	.71	.60	.45
M74HC133RM13TR	497-1770-1-ND	13-Input NAND Gate*	16-SOIC	.75	.61	.46
M74HC133RM13TR	497-1770-2-ND	13-Input NAND Gate*	16-SOIC	530.00/2,500		
M74HC138RM13TR	497-1772-1-ND	3-to-8 Line Decoder, Inverting	16-SOIC	.70	.60	.48
M74HC138RM13TR	497-1772-2-ND	3-to-8 Line Decoder, Inverting	16-SOIC	572.50/2,500		
M74HC138TTR	497-7829-1-ND	3-to-8 Line Decoder, Inverting*	16-TSSOP	1.02	.88	.70
M74HC138TTR	497-7829-2-ND	3-to-8 Line Decoder, Inverting*	16-TSSOP	837.50/2,500		
M74HC139B1R	497-1773-5-ND	Dual 2-to-4 Decoder/Demux*	16-Dip	.75	.64	.48
M74HC139RM13TR	497-1774-1-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	1.06	.92	.73
M74HC139RM13TR	497-1774-2-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	877.50/2,500		
M74HC148B1R	497-1775-5-ND	8-to-3 Line Priority Encoder*	16-Dip	.80	.68	.51
M74HC148RM13TR	497-1776-1-ND	8-to-3 Line Priority Encoder	16-SOIC	1.08	.97	.77
M74HC148RM13TR	497-1776-2-ND	8-to-3 Line Priority Encoder	16-SOIC	995.00/2,500		
M74HC151B1R	497-1779-5-ND	8-Channel Multiplexer*	16-Dip	.92	.81	.63
M74HC151RM13TR	497-1780-1-ND	8-Channel Multiplexer*	16-SOIC	1.02	.88	.70
M74HC151TTR	497-7348-1-ND	8-Channel Multiplexer*	16-TSSOP	.70	.60	.48
M74HC151TTR	497-7348-2-ND	8-Channel Multiplexer*	16-TSSOP	572.50/2,500		
M74HC153B1R	497-1781-5-ND	Dual 4-Channel Multiplexer	16-Dip	.92	.82	.65
M74HC153RM13TR	497-1782-1-ND	Dual 4-Channel Multiplexer	16-SOIC	.77	.70	.55
M74HC153RM13TR	497-1782-2-ND	Dual 4-Channel Multiplexer	16-SOIC	737.50/2,500		
M74HC155B1R	497-1783-5-ND	Dual 2-to-4 and 3-to-8 Line Decoder*	16-Dip	.52	.46	.36
M74HC157B1R	497-1785-5-ND	Quad 2-Channel Multiplexer*	16-Dip	.55	.47	.35
M74HC157RM13TR	497-1786-1-ND	Quad 2-Channel Multiplexer	16-SOIC	1.06	.92	.73
M74HC157RM13TR	497-1786-2-ND	Quad 2-Channel Multiplexer	16-SOIC	877.50/2,500		
M74HC160RM13TR	497-7349-1-ND	Sync. Preset 4-Bit Counter*	16-SOIC	1.04	.93	.74
M74HC160RM13TR	497-7349-2-ND	Sync. Preset 4-Bit Counter*	16-SOIC	955.00/2,500		
M74HC161B1R	497-1787-5-ND	Sync. Presettable 4-Bit Counter	16-Dip	.65	.55	.42
M74HC161RM13TR	497-1788-1-ND	Sync. Presettable 4-Bit Counter*	16-SOIC	1.08	.97	.77
M74HC161RM13TR	497-1788-2-ND	Sync. Presettable 4-Bit Counter*	16-SOIC	995.00/2,500		
M74HC161TTR	497-6433-1-ND	Sync. Presettable 4-Bit Counter*	16-TSSOP	.70	.60	.48
M74HC161TTR	497-6433-2-ND	Sync. Presettable 4-Bit Counter*	16-TSSOP	572.50/2,500		
M74HC163B1R	497-7350-5-ND	Sync. Preset 4-Bit Counter*	16-Dip	.65	.55	.42
M74HC163RM13TR	497-7351-1-ND	Sync. Preset 4-Bit Counter*	16-SOIC	1.04	.93	.74
M74HC163RM13TR	497-7351-2-ND	Sync. Preset 4-Bit Counter*	16-SOIC	955.00/2,500		
M74HC164B1R	497-1789-5-ND	8-Bit SIPO Shift Register*	14-Dip	.76	.65	.49
M74HC164RM13TR	497-7352-1-ND	8-Bit SIPO Shift Register*	14-SOIC	.70	.60	.48
M74HC164RM13TR	497-7352-2-ND	8-Bit SIPO Shift Register*	14-SOIC	572.50/2,500		
M74HC164TTR	497-7353-1-ND	8-Bit SIPO Shift Register*	14-TSSOP	.70	.60	.48
M74HC164TTR	497-7353-2-ND	8-Bit SIPO Shift Register*	14-TSSOP	572.50/2,500		
M74HC165RM13TR	497-6459-1-ND	8-Bit PISO Shift Register*	16-SOIC	.70	.60	.48
M74HC165RM13TR	497-6459-2-ND	8-Bit PISO Shift Register*	16-SOIC	572.50/2,500		
M74HC165TTR	497-7354-1-ND	8-Bit PISO Shift Register*	16-TSSOP	.70	.60	.48
M74HC165TTR	497-7354-2-ND	8-Bit PISO Shift Register*	16-TSSOP	572.50/2,500		
M74HC166B1R	497-7355-5-ND	8-Bit PISO Shift Register*	16-Dip	.49	.43	.33
M74HC173RM13TR	497-7356-1-ND	Tri-St. Quad D-Type Register*	16-SOIC	.54	.47	.37
M74HC174B1R	497-1792-5-ND	Hex D-Type Flip-Flop*	16-Dip	.77	.66	.49
M74HC174RM13TR	497-7357-1-ND	Hex D-Type Flip-Flop*	16-SOIC	1.04	.93	.74
M74HC174RM13TR	497-7357-2-ND	Hex D-Type Flip-Flop*	16-SOIC	955.00/2,500		
M74HC174TTR	497-4274-1-ND	Hex D-Type Flip-Flop*	16-TSSOP	.69	.56	.42
M74HC174TTR	497-4274-2-ND	Hex D-Type Flip-Flop*	16-TSSOP	487.50/2,500		
M74HC175B1R	497-1793-5-ND	Quad D-Type Flip-Flop*	16-Dip	.63	.56	.43
M74HC175RM13TR	497-1794-1-ND	Quad D-Type Flip-Flop	16-SOIC	1.04	.93	.74
M74HC175TTR	497-7358-1-ND	Quad D-Type Flip-Flop*	16-TSSOP	.70	.60	.48
M74HC175TTR	497-7358-2-ND	Quad D-Type Flip-Flop*	16-TSSOP	572.50/2,500		
M74HC221B1R	497-1797-5-ND	Dual Mono Multivibrator*	16-Dip	.67	.59	.46
M74HC221RM13TR	497-1798-1-ND	Dual Mono Multivibrator	16-SOIC	.70	.60	.48
M74HC221RM13TR	497-1798-2-ND	Dual Mono Multivibrator	16-SOIC	572.50/2,500		
M74HC237B1R	497-7359-5-ND	3-to-8 Line Decoder Latch*	16-Dip	.62	.54	.42
M74HC237RM13TR	497-7830-1-ND	3-to-8 Line Decoder Latch*	16-SOIC	.71	.62	.49
M74HC238B1R	497-1799-5-ND	3-to-8 Line Decoder*	16-Dip	.72	.63	.49
M74HC238RM13TR	497-1800-1-ND	3-to-8 Line Decoder*	16-SOIC	.67	.54	.40
M74HC238RM13TR	497-1800-2-ND	3-to-8 Line Decoder*	16-SOIC	470.00/2,500		
M74HC240B1R	497-1801-5-ND	Tri-State Octal Bus Buffer, Inverted*	20-Dip	1.01	.86	.64
M74HC240RM13TR	497-1802-1-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	1.12	.90	.67
M74HC240RM13TR	497-1802-2-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	345.00/1,000		
M74HC244B1R	497-1803-5-ND	Tri-St. Octal Bus Buffer, Non-Inverted*	20-Dip	1.01	.86	.64
M74HC244RM13TR	497-1804-1-ND	Tri-St. Octal Bus Buffer, Non-Inverted	20-SOICW	.89	.78	.61
M74HC244TTR	497-7360-1-ND	Tri-St. Octal Bus Buffer, Non-Inverted*	20-TSSOP	.70	.60	.48
M74HC244TTR	497-7360-2-ND	Tri-St. Octal Bus Buffer, Non-Inverted*	20-TSSOP	572.50/2,500		
M74HC245B1R	497-1805-5-ND	Tri-St. Octal Bus Transceiver, Non-Inverted*	20-Dip	1.12	.95	.71
M74HC245RM13TR	497-1806-1-ND	Tri-St. Octal Bus Transceiver, Non-Inverted	20-SOIC	1.23	.99	.74
M74HC245TTR	497-7361-1-ND	Tri-St. Octal Bus Transceiver, Non-Inverted*	20-TSSOP	.70	.60	.48
M74HC245TTR	497-7361-2-ND	Tri-St. Octal Bus Transceiver, Non-Inverted*	20-TSSOP	572.50/2,500		
M74HC251B1R	497-1807-5-ND	Tri-State 8-Channel Mux*	16-Dip	.55	.47	.35
M74HC251RM13TR	497-1808-1-ND	Tri-State 8-Channel Mux	16-SOIC	.96	.86	.69
M74HC251RM13TR	497-1808-2-ND	Tri-State 8-Channel Mux	16-SOIC	882.50/2,500		
M74HC251TTR	497-7831-1-ND	Tri-State 8-Channel Mux*	16-TSSOP	.96	.86	.69
M74HC251TTR	497-7831-2-ND	Tri-State 8-Channel Mux*	16-TSSOP	882.50/2,500		
M74HC253RM13TR	497-1809-1-ND	Tri-State Dual 4-Channel Mux	16-SOIC	.96	.86	.69
M74HC253RM13TR	497-1809-2-ND	Tri-State Dual 4-Channel Mux	16-SOIC	882.50/2,500		
M74HC257B1R	497-1810-5-ND	Tri-State Quad 2-Channel Mux*	16-Dip	.63	.56	.43
M74HC257RM13TR	497-1811-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.67	.54	.40
M74HC259B1R	497-1812-5-ND	8-Bit Addressable Latch	16-Dip	1.03	.92	.73
M74HC259RM13TR	497-7362-1-ND	8-Bit Addressable Latch*	16-SOIC	1.20	1.08	.86
M74HC259RM13TR	497-7362-2-ND	8-Bit Addressable Latch*	16-SOIC	1102.50/2,500		
M74HC273B1R	497-1813-5-ND	Octal D-Type Flip-Flop*	20-Dip	.84	.74	.57
M74HC273RM13TR	497-1814-1-ND	Octal D-Type Flip-Flop	20-SOIC	1.09	.88	.66
M74HC273RM13TR	497-1814-2-ND	Octal D-Type Flip-Flop*	20-SOIC	338.00/1,000		
M74HC280B1R	497-1815-5-ND	9-Bit Parity Generator	14-Dip	1.03	.92	.73
M74HC280RM13TR	497-1816-1-ND	9-Bit Parity Generator*	14-SOIC	.58	.47	.35
M74HC280RM13TR	497-1816-2-ND	9-Bit Parity Generator*	14-SOIC	407.50/2,500		
M74HC299B1R	497-1817-5-ND	8-Bit PIPO Shift Register, Async. Clear	20-Dip	.63	.56	.43
M74HC299RM13TR	497-1818-1-ND	8-Bit PIPO Shift Register, Async. Clear	20-SOIC	.92	.80	.63
M74HC365B1R	497-1821-5-ND	Tri-State Hex Bus Buffer*	16-Dip	.92	.81	.63
M74HC365RM13TR	497-1822-1-ND	Tri-State Hex Bus Buffer*	16-SOICN	.67	.54	.40
M74HC365RM13TR	497-1822-2-ND	Tri-State Hex Bus Buffer*	16-SOICN	470.00/2,500		
M74HC367B1R	497-7367-5-ND	Tri-State Hex Bus Buffer*	16-Dip	.72	.63	.49
M74HC367RM13TR	497-7368-1-ND	Tri-State Hex Bus Buffer*	16-SOICN	1.02	.88	.70

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(Continued)

STMicroelectronics Digi-Reel® (Cont.) LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC367RM13TR	497-7368-2-ND	Tri-State Hex Bus Buffer*	16-SOICN	837.50/2,500		
M74HC367TTR	497-1824-1-ND	Tri-State Hex Bus Buffer	16-TSSOP	.51	.41	.31
M74HC368B1R	497-1825-5-ND	Tri-State Hex Bus Buffer*	16-Dip	.60	.51	.38
M74HC368RM13TR	497-1826-1-ND	Tri-State Hex Bus Buffer*	16-SOIC	1.02	.88	.70
M74HC368RM13TR	497-1826-2-ND	Tri-State Hex Bus Buffer*	16-SOIC	837.50/2,500		
M74HC373B1R	497-1827-5-ND	Tri-State Octal D-Type Latch	20-Dip	.63	.56	.43
M74HC373RM13TR	497-1828-1-ND	Tri-State Octal D-Type Latch*	20-SOIC	.64	.51	.39
M74HC373RM13TR	497-1828-2-ND	Tri-State Octal D-Type Latch*	20-SOIC	197.00/1,000		
M74HC373TTR	497-7369-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	1.24	1.11	.89
M74HC373TTR	497-7369-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	1140.00/2,500		
M74HC374B1R	497-1829-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	.75	.63	.48
M74HC374RM13TR	497-1830-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.70	.60	.48
M74HC374RM13TR	497-1830-2-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	253.00/1,000		
M74HC377B1R	497-1831-5-ND	Octal D-Type Flip-Flop*	20-Dip	1.07	.91	.68
M74HC377RM13TR	497-1832-1-ND	Octal D-Type Flip-Flop	20-SOIC	1.18	.95	.71
M74HC390B1R	497-7370-5-ND	Dual Decade Counter*	16-Dip	.76	.67	.52
M74HC390RM13TR	497-7371-1-ND	Dual Decade Counter*	16-SOIC	1.24	1.11	.89
M74HC390RM13TR	497-7371-2-ND	Dual Decade Counter*	16-SOIC	1140.00/2,500		
M74HC393B1R	497-1833-5-ND	Dual Binary Counter*	14-Dip	.67	.59	.46
M74HC393RM13TR	497-1834-1-ND	Dual Binary Counter	14-SOIC	.58	.47	.35
M74HC393RM13TR	497-1834-2-ND	Dual Binary Counter	14-SOIC	407.50/2,500		
M74HC393TTR	497-7372-1-ND	Dual Binary Counter*	14-TSSOP	.70	.60	.48
M74HC393TTR	497-7372-2-ND	Dual Binary Counter*	14-TSSOP	572.50/2,500		
M74HC541B1R	497-1873-5-ND	Tri-State Octal Bus Buffer	20-Dip	.96	.84	.65
M74HC541RM13TR	497-1874-1-ND	Tri-State Octal Bus Buffer	20-SOIC	1.40	1.26	1.00
M74HC541RM13TR	497-1874-2-ND	Tri-State Octal Bus Buffer	20-SOIC	552.00/1,000		
M74HC563RM13TR	497-7384-1-ND	Tri-State Octal D-Type Latch*	20-SOP	.64	.51	.39
M74HC563RM13TR	497-7384-2-ND	Tri-State Octal D-Type Latch*	20-SOP	197.00/1,000		
M74HC573B1R	497-1875-5-ND	Tri-State Octal D-Type Latch	20-Dip	.74	.65	.50
M74HC573RM13TR	497-1876-1-ND	Tri-State Octal D-Type Latch*	20-SOIC	1.14	.92	.69
M74HC573RM13TR	497-1876-2-ND	Tri-State Octal D-Type Latch*	20-SOIC	354.00/1,000		
M74HC573TTR	497-7385-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.70	.60	.48
M74HC573TTR	497-7385-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	572.50/2,500		
M74HC574B1R	497-1877-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.51	.38
M74HC574RM13TR	497-1878-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	1.31	1.05	.79
M74HC574RM13TR	497-1878-2-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	405.00/1,000		
M74HC574TTR	497-7386-1-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.70	.60	.48
M74HC574TTR	497-7386-2-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	572.50/2,500		
M74HC590B1R	497-1879-5-ND	Tri-State 8-Binary Counter Register*	16-Dip	.70	.59	.45
M74HC590RM13TR	497-6463-1-ND	8-Binary Counter Register*	16-SOIC	.92	.80	.63
M74HC590RM13TR	497-6463-2-ND	8-Binary Counter Register*	16-SOIC	762.50/2,500		
M74HC590TTR	497-7838-1-ND	Tri-State 8-Binary Counter Register*	16-TSSOP	1.72	1.54	1.23
M74HC590TTR	497-7838-2-ND	Tri-State 8-Binary Counter Register*	16-TSSOP	1582.50/2,500		
M74HC592TTR	497-7839-1-ND	8-Bit Register Binary Counter*	16-TSSOP	1.28	1.15	.91
M74HC592TTR	497-7839-2-ND	8-Bit Register Binary Counter*	16-TSSOP	1175.00/2,500		
M74HC595B1R	497-2986-5-ND	Tri-State 8-Bit Shift Register*	16-Dip	.63	.56	.43
M74HC595RM13TR	497-1880-1-ND	Tri-State 8-Bit Shift Register*	16-SOIC	.64	.51	.39
M74HC595RM13TR	497-1880-2-ND	Tri-State 8-Bit Shift Register*	16-SOIC	450.00/2,500		
M74HC595TTR	497-7387-1-ND	Tri-State 8-Bit Shift Register*	16-TSSOP	.70	.60	.48
M74HC595TTR	497-7387-2-ND	Tri-State 8-Bit Shift Register*	16-TSSOP	572.50/2,500		
M74HC597B1R	497-7388-5-ND	8-Bit Latch/Shift Register*	16-Dip	1.51	1.34	1.06
M74HC688B1R	497-7389-5-ND	8-Bit Equality Comparator*	20-Dip	1.25	1.11	.88
M74HC688RM13TR	497-1882-1-ND	8-Bit Equality Comparator*	20-SOIC	.70	.60	.48
M74HC688RM13TR	497-1882-2-ND	8-Bit Equality Comparator*	20-SOIC	253.00/1,000		
M74HC688TTR	497-4275-1-ND	8-Bit Equality Comparator*	20-TSSOP	.74	.64	.51
M74HC688TTR	497-4275-2-ND	8-Bit Equality Comparator*	20-TSSOP	610.00/2,500		
M74HC4017B1R	497-1835-5-ND	Decade Counter/Divider*	16-Dip	.67	.59	.46
M74HC4017RM13TR	497-1836-1-ND	Decade Counter/Divider	16-SOIC	.70	.60	.48
M74HC4017RM13TR	497-1836-2-ND	Decade Counter/Divider	16-SOIC	572.50/2,500		
M74HC4020B1R	497-7374-5-ND	14-Stage Binary Counter*	16-Dip	.88	.78	.60
M74HC4020RM13TR	497-1837-1-ND	14-Stage Binary Counter*	16-SOIC	.67	.54	.40
M74HC4020RM13TR	497-1837-2-ND	14-Stage Binary Counter*	16-SOIC	470.00/2,500		
M74HC4024B1R	497-1838-5-ND	7-Stage Binary Counter	14-Dip	.96	.85	.67
M74HC4024RM13TR	497-1839-1-ND	7-Stage Binary Counter	14-SOIC	.70	.60	.48
M74HC4024RM13TR	497-1839-2-ND	7-Stage Binary Counter	14-SOIC	572.50/2,500		
M74HC4040B1R	497-1840-5-ND	12-Stage Binary Counter*	16-Dip	.63	.56	.43
M74HC4040RM13TR	497-7375-1-ND	12-Stage Binary Counter*	16-SOIC	.83	.72	.57
M74HC4040RM13TR	497-7375-2-ND	12-Stage Binary Counter*	16-SOIC	685.00/2,500		
M74HC4040TTR	497-7376-1-ND	12-Stage Binary Counter*	16-TSSOP	.70	.60	.48
M74HC4040TTR	497-7376-2-ND	12-Stage Binary Counter*	16-TSSOP	572.50/2,500		
M74HC4049B1R	497-1841-5-ND	Hex Buffer/Converter*	16-Dip	.92	.81	.63
M74HC4049RM13TR	497-1842-1-ND	Hex Buffer/Converter	16-SOICN	.58	.47	.35
M74HC4050B1R	497-1843-5-ND	Hex Buffer/Converter*	16-Dip	1.54	1.37	1.09
M74HC4050RM13TR	497-1844-1-ND	Hex Buffer/Converter*	16-SOICN	1.06	.92	.73
M74HC4050RM13TR	497-1844-2-ND	Hex Buffer/Converter*	16-SOICN	877.50/2,500		
M74HC4050TTR	497-7377-1-ND	Hex Buffer/Converter*	16-TSSOP	.75	.61	.46
M74HC4050TTR	497-7377-2-ND	Hex Buffer/Converter*	16-TSSOP	530.00/2,500		
M74HC4051RM13TR	497-1846-1-ND	Single 8-Channel Analog Mux/Demux*	16-SOIC	.70	.60	.48
M74HC4051RM13TR	497-1846-2-ND	Single 8-Channel Analog Mux/Demux*	16-SOIC	572.50/2,500		
M74HC4051TTR	497-7378-1-ND	Single 8-Channel Analog Mux/Demux*	16-TSSOP	.92	.80	.63
M74HC4051TTR	497-7378-2-ND	Single 8-Channel Analog Mux/Demux*	16-TSSOP	762.50/2,500		
M74HC4052B1R	497-1847-5-ND	Dual 4-Channel Analog Mux/Demux*	16-Dip	1.54	1.37	1.09
M74HC4052RM13TR	497-1848-1-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.67	.54	.40
M74HC4052RM13TR	497-1848-2-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	470.00/2,500		
M74HC4052TTR	497-7379-1-ND	Dual 4-Channel Analog Mux/Demux*	16-TSSOP	.70	.60	.48
M74HC4052TTR	497-7379-2-ND	Dual 4-Channel Analog Mux/Demux*	16-TSSOP	572.50/2,500		
M74HC4053B1R	497-1849-5-ND	Triple 2-Channel Analog Mux/Demux*	16-Dip	.76	.64	.48
M74HC4053RM13TR	497-1850-1-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.70	.60	.48
M74HC4053RM13TR	497-1850-2-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	572.50/2,500		
M74HC4053TTR	497-7380-1-ND	Triple 2-Channel Analog Mux/Demux*	16-TSSOP	.70	.60	.48
M74HC4053TTR	497-7380-2-ND	Triple 2-Channel Analog Mux/Demux*	16-TSSOP	572.50/2,500		
M74HC4060B1R	497-1851-5-ND	14-Stage Binary Counter/ Oscillator*	16-Dip	.99	.88	.70
M74HC4060RM13TR	497-1852-1-ND	14-Stage Binary Counter/Oscillator	16-SOIC	.64	.51	.39
M74HC4060TTR	497-7381-1-ND	14-Stage Binary Counter/ Oscillator*	16-TSSOP	.70	.60	.48
M74HC4060TTR	497-7381-2-ND	14-Stage Binary Counter/ Oscillator*	16-TSSOP	572.50/2,500		
M74HC4066B1R	497-1853-5-ND	Quad Bilateral Switch*	14-Dip	.68	.58	.43
M74HC4066RM13TR	497-1854-1-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
M74HC4066RM13TR	497-1854-2-ND	Quad Bilateral Switch*	14-SOIC	387.50/2,500		
M74HC4066TTR	497-7382-1-ND	Quad Bilateral Switch*	14-TSSOP	.75	.61	.46
M74HC4066TTR	497-7382-2-ND	Quad Bilateral Switch*	14-TSSOP	530.00/2,500		
M74HC4075RM13TR	497-1856-1-ND	Triple 3-Input OR Gate	14-SOIC	.70	.60	.48
M74HC4078B1R	497-6711-5-ND	8-Input NOR/OR Gate*	14-Dip	.72	.63	.49
M74HC4078RM13TR	497-6461-1-ND	8-Input NOR/OR Gate*	14-SOIC	.83	.72	.57
M74HC4078RM13TR	497-6461-2-ND	8-Input NOR/OR Gate*	14-SOIC	685.00/2,500		

STMicroelectronics Digi-Reel® (Cont.) LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC4094B1R	497-2985-5-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-Dip	.63	.56	.43
M74HC4094RM13TR	497-1857-1-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-SOIC	.76	.61	.46
M74HC4094RM13TR	497-1857-2-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-SOIC	535.00/2,500		
M74HC4094TTR	497-7383-1-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-TSSOP	.70	.60	.48
M74HC4094TTR	497-7383-2-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-TSSOP	572.50/2,500		
M74HC4316B1R	497-1860-5-ND	Quad Bilateral Switch	16-Dip	.70	.59	.45
M74HC4316RM13TR	497-1861-1-ND	Quad Bilateral Switch*	16-SOIC	.70	.60	.48
M74HC4316RM13TR	497-1861-2-ND	Quad Bilateral Switch*	16-SOIC	572.50/2,500		
M74HC4316TTR	497-6462-1-ND	Quad Bilateral Switch*	16-TSSOP	.83	.72	.57
M74HC4316TTR	497-6462-2-ND	Quad Bilateral Switch*	16-TSSOP	685.00/2,500		
M74HC4520B1R	497-1862-5-ND	Dual 4-Bit Binary Counter	16-Dip	1.14	1.02	.80
M74HC4520RM13TR	497-1863-1-ND	Dual 4-Bit Binary Counter*	16-SOP	.70	.60	.48
M74HC4520RM13TR	497-1863-2-ND	Dual 4-Bit Binary Counter*	16-SOP	572.50/2,500		
M74HC4538B1R	497-1864-5-ND	Dual Retriggerable Mono Multivibrator*	16-Dip	.70	.61	.47
M74HC4538RM13TR	497-1865-1-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	.70	.60	.48
M74HC4538RM13TR	497-1865-2-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	572.50/2,500		
M74HC4538TTR	497-8197-1-ND	Dual Retriggerable Mono Multivibrator*	16-TSSOP	.79	.68	.54
M74HC4538TTR	497-8197-2-ND	Dual Retriggerable Mono Multivibrator*	16-TSSOP	650.00/2,500		
M74HC4543B1R	497-1866-5-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver*	16-Dip	.65	.55	.42
M74HC4543RM13TR	497-1867-1-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1.40	1.26	1.00
M74HC4543RM13TR	497-1867-2-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1287.50/2,500		
M74HC4851RM13TR	497-7833-1-ND	Single 8-Channel Analog Mux/ Demux*	16-SOIC	2.02	1.74	1.42
M74HC4851RM13TR	497-7833-2-ND	Single 8-Channel Analog Mux/ Demux*	16-SOIC	1950.00/2,500		
M74HC4851TTR	497-7834-1-ND	Single 8-Channel Analog Mux/ Demux*	16-TSSOP	2.02	1.74	1.42
M74HC4851TTR	497-7834-2-ND	Single 8-Channel Analog Mux/ Demux*	16-TSSOP	1950.00/2,500		
M74HC4852RM13TR	497-7835-1-ND	Dual 4:1 Channel Analog Mux/ Demux*	16-SOIC	2.17	1.86	1.52
M74HC4852RM13TR	497-7835-2-ND	Dual 4:1 Channel Analog Mux/ Demux*	16-SOIC	2092.50/2,500		
M74HC7266RM13TR	497-7840-1-ND	Quad Exclusive NOR Gate*	14-SOIC	.92	.80	.63
M74HC7266RM13TR	497-7840-2-ND	Quad Exclusive NOR Gate*	14-SOIC	762.50/2,500		
M74HCT00B1R	497-1891-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.41	.31
M74HCT00RM13TR	497-7393-1-ND	Quad 2-Input NAND Gate*	14-SOIC	.75	.61	.46
M74HCT00RM13TR	497-7393-2-ND	Quad 2-Input NAND Gate*	14-SOIC	530.00/2,500		
M74HCT02RM13TR	497-1892-1-ND	Quad 2-Input NOR Gate	14-SOIC	.47	.37	.26
M74HCT04B1R	497-1893-5-ND	Hex Inverter*	14-Dip	.72	.61	.46
M74HCT08B1R	497-1895-5-ND	Quad 2-Input AND Gate*	14-Dip	.55	.47	.35
M74HCT14B1R	497-1901-5-ND	Hex Schmitt Inverter	14-Dip	.50	.42	.32
M74HCT14RM13TR	497-1902-1-ND	Hex Schmitt Inverter	14-SOIC	.58	.47	.35
M74HCT14TTR	497-4276-1-ND	Hex Schmitt Inverter	14-TSSOP	.75	.61	.46
M74HCT14TTR	497-4276-2-ND	Hex Schmitt Inverter	14-TSSOP	530.00/2,500		
M74HCT32B1R	497-1909-5-ND	Quad 2-Input OR Gate*	14-Dip	.72	.63	.49
M74HCT32RM13TR	497-1910-1-ND	Quad 2-Input OR Gate	14-SOIC	.61	.48	.33
M74HCT74B1R	497-1922-5-ND	Dual D-Type Flip-Flop*	14-Dip	.92	.81	.63
M74HCT74RM13TR	497-1923-1-ND	Dual D-Type Flip-Flop	14-SOIC	.57	.45	.31
M74HCT74TTR	497-7403-1-ND	Dual D-Type Flip-Flop*	14-TSSOP	1.02	.88	.70
M74HCT74TTR	497-7403-2-ND	Dual D-Type Flip-Flop*	14-TSSOP	837.50/2,500		
M74HCT125B1R	497-1897-5-ND	Tri-State Quad Bus Buffer	14-Dip	.42	.36	.27
M74HCT132TTR	497-7842-1-ND	Quad 2-Input Schmitt NAND Gate*	14-TSSOP	1.00	.90	.72
M74HCT132TTR	497-7842-2-ND	Quad 2-Input Schmitt NAND Gate*	14-TSSOP	920.00/2,500		
M74HCT138RM13TR	497-1900-1-ND	3-to-8 Line Decoder	16-SOIC	.67	.54	.40
M74HCT157RM13TR	497-7843-1-ND	Quad 2-Channel Mux*	16-SOIC	1.02	.88	.70
M74HCT157RM13TR	497-7843-2-ND	Quad 2-Channel Mux*	16-SOIC	837.50/2,500		
M74HCT164RM13TR	497-6994-1-ND	8-Bit SIPO Shift Register*	14-SOIC	.49	.40	.30
M74HCT174RM13TR	497-7844-1-ND	Hex D-Type Flip-Flop*	16-SOIC	.80	.72	.58
M74HCT244B1R	497-1903-5-ND	Tri-State Octal Bus Buffer*	20-Dip	1.22	1.03	.77
M74HCT244RM13TR	497-1904-1-ND	Tri-State Octal Bus Buffer	20-SOICW	.75	.61	.46
M74HCT244RM13TR	497-1904-2-ND	Tri-State Octal Bus Buffer	20-SOICW	233.00/1,000		
M74HCT245B1R	497-1905-5-ND	Tri-State Octal Bus Transceiver*	20-Dip	.89	.79	.61
M74HCT245RM13TR	497-1906-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.93	.81	.64
M74HCT245RM13TR	497-1906-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	338.00/1,000		
M74HCT245TTR	497-8195-1-ND	Tri-State Octal Bus Transceiver*	20-TSSOP	.70	.60	.48
M74HCT245TTR	497-8195-2-ND	Tri-State Octal Bus Transceiver*	20-TSSOP	572.50/2,500		
M74HCT273B1R	497-1907-5-ND	Octal D-Type Flip-Flop with Clear*	20-Dip	1.13	.95	.72
M74HCT273RM13TR	497-1908-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	1.40	1.26	1.00
M74HCT273RM13TR	497-1908-2-ND	Octal D-Type Flip-Flop	20-SOIC	552.00/1,000		
M74HCT367RM13TR	497-4278-1-ND	Tri-State Hex Bus Buffer	16-SOICN	.63	.51	.38
M74HCT373B1R	497-7396-5-ND	Tri-State Octal D-Type Latch*	20-Dip	1.02	.90	.69
M74HCT373RM13TR	497-7397-1-ND	Tri-State Octal D-Type Latch*	20-SOIC	.70	.60	.48
M74HCT373RM13TR	497-7397-2-ND	Tri-State Octal D-Type Latch*	20-SOIC	253.00/1,000		
M74HCT373TTR	497-4279-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	1.36	1.22	.97
M74HCT373TTR	497-4279-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	1250.00/2,500		
M74HCT374B1R	497-1911-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	.70	.59	.45
M74HCT540RM13TR	497-1915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.67	.54	.40
M74HCT540RM13TR	497-1915-2-ND	Tri-State Octal Bus Buffer	20-SOIC	206.00/1,000		
M74HCT541B1R	497-1916-5-ND	Tri-State Octal Bus Buffer*	20-Dip	.60	.51	.38
M74HCT541RM13TR	497-7399-1-ND	Tri-State Octal Bus Buffer*	20-SOIC	1.08	.94	.74
M74HCT541RM13TR	497-7399-2-ND	Tri-State Octal Bus Buffer*	20-SOIC	394.00/1,000		
M74HCT573B1R	497-1917-5-ND	Tri-State Octal D-Type Latch* ***NEW!***	20-DIP	1.01	.89	.69
M74HCT573RM13TR	497-1918-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.75	.61	.46
M74HCT573TTR	497-7400-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.70	.60	.48
M74HCT573TTR	497-7400-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	572.50/2,500		
M74HCT574B1R	497-1919-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	1.06	.93	.72
M74HCT574TTR	497-7401-1-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	1.40	1.26	1.00
M74HCT574TTR	497-7401-2-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	1287.50/2,500		
M74HCT640RM13TR	497-1921-1-ND	Tri-State Octal Bus Transceiver*	20-SOIC	1.68	1.50	1.20
M74HCT640RM13TR	497-1921-2-ND	Tri-State Octal Bus Transceiver*	20-SOIC	662.00/1,000		
M74HCT4051RM13TR	497-7845-1-ND	Single 8-Channel Analog Mux/ Demux*	16-SOIC	1.68	1.50	1.20
M74HCT4051RM13TR	497-7845-2-ND	Single 8-Channel Analog Mux/ Demux*	16-SOIC	1542.50/2,500		

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LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HCT4051TTR	497-7846-1-ND	Single 8-Channel Analog Mux/ Demux*	16-TSSOP	1.68	1.50	1.20
M74HCT4051TTR	497-7846-2-ND	Single 8-Channel Analog Mux/ Demux*	16-TSSOP	1542.50/2,500		
M74HCT4053RM13TR	497-7398-1-ND	Triple 2-Channel Analog Mux/ Demux*	16-SOIC	1.68	1.50	1.20
M74HCT4053RM13TR	497-7398-2-ND	Triple 2-Channel Analog Mux/ Demux*	16-SOIC	1542.50/2,500		
M74HCT7007RM13TR	497-7847-1-ND	Hex Buffer, Non-Inverting*	14-SOICN	1.00	.87	.69
M74HCT7007RM13TR	497-7847-2-ND	Hex Buffer, Non-Inverting*	14-SOICN	822.50/2,500		
M74HCU04B1R	497-1924-5-ND	Hex Inverter*	14-Dip	.72	.63	.49
M74HCU04RM13TR	497-1925-1-ND	Hex Inverter	14-SOIC	.57	.45	.31
M74HCU04TTR	497-7404-1-ND	Hex Inverter*	14-TSSOP	.75	.61	.46
M74HCU04TTR	497-7404-2-ND	Hex Inverter*	14-TSSOP	530.00/2,500		
ST1G3236DTR	497-6898-1-ND	1-Bit Dual Supply Bus Transceiver Level Translator*	6-DFN	1.06	.92	.73
ST1G3236DTR	497-6898-2-ND	1-Bit Dual Supply Bus Transceiver Level Translator*	6-DFN	1635.00/5,000		
ST2G3236QTR	497-5950-1-ND	2-Bit Dual Supply Bus Transceiver Level Translator*	10-QFN	2.59	2.28	1.94
ST2G3236QTR	497-5950-2-ND	2-Bit Dual Supply Bus Transceiver Level Translator*	10-QFN	2937.00/3,000		
ST3DV520AQTR	497-10388-1-ND	Single 2-Channel Analog Mux/ Demux* ***NEW!***	56-QFN	3.31	2.84	2.32
ST3DV520AQTR	497-10388-2-ND	Single 2-Channel Analog Mux/ Demux* ***NEW!***	56-QFN	3190.00/2,500		
ST4G3234BJR	497-4622-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	11-FlipChip	2.39	2.05	1.68
ST4G3234BJR	497-4622-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	11-FlipChip	3688.00/4,000		
ST4G3235BJR	497-4623-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	11-FlipChip	2.39	2.05	1.68
ST4G3235BJR	497-4623-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	11-FlipChip	3688.00/4,000		
ST890BDR	497-6333-1-ND	1.2A Current Limited High-Side Power Switch with Thermal Shutdown*	8-SOIC	3.31	2.84	2.32
ST890BDR	497-6333-2-ND	1.2A Current Limited High-Side Power Switch with Thermal Shutdown*	8-SOIC	3190.00/2,500		
ST890CDR	497-6543-1-ND	1.2A Current Limited High-Side Power Switch, Thermal Shutdown*	8-SOIC	3.45	2.97	2.42
ST890CDR	497-6543-2-ND	1.2A Current Limited High-Side Power Switch, Thermal Shutdown*	8-SOIC	3330.00/2,500		
ST890DTR	497-6833-1-ND	1.2A Current Limited High Side Power Switch*	8-DFN	2.06	1.77	1.45
ST890DTR	497-6833-2-ND	1.2A Current Limited High Side Power Switch*	8-DFN	2382.00/3,000		
ST2042BDR	497-4306-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.64	1.47	1.17
ST2042BDR	497-4306-2-ND	Current Limited Power Distribution Switch	8-SOIC	1507.50/2,500		
ST2052BDR	497-4309-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.64	1.47	1.17
ST2052BDR	497-4309-2-ND	Current Limited Power Distribution Switch	8-SOIC	1507.50/2,500		
ST2054BDR	497-4311-1-ND	Current Limited Power Distribution Switch	16-SOIC	3.07	2.77	2.25
ST2129QTR	497-10150-1-ND	2-Bit Dual Supply Level Translator* ***NEW!***	10-QFN	1.80	1.61	1.28
ST2129QTR	497-10150-2-ND	2-Bit Dual Supply Level Translator* ***NEW!***	10-QFN	1986.00/3,000		
ST2149QTR	497-10151-1-ND	4-Bit Dual Supply Level Translator* ***NEW!***	16-QFN	2.39	2.05	1.68
ST2149QTR	497-10151-2-ND	4-Bit Dual Supply Level Translator* ***NEW!***	16-QFN	2766.00/3,000		
ST2329AQTR	497-8981-1-ND	2-Bit Dual Supply Level Translator* ***NEW!***	10-QFN	1.88	1.68	1.34
ST2329AQTR	497-8981-2-ND	2-Bit Dual Supply Level Translator* ***NEW!***	10-QFN	2076.00/3,000		
ST2329QTR	497-6907-1-ND	2-Bit Dual Supply Level Translator*	10-QFN	1.82	1.56	1.28
ST2329QTR	497-6907-2-ND	2-Bit Dual Supply Level Translator*	10-QFN	2106.00/3,000		
ST2349AQTR	497-9076-1-ND	4-Bit Dual Supply Level Translator* ***NEW!***	16-QFN	2.50	2.15	1.75
ST2349AQTR	497-9076-2-ND	4-Bit Dual Supply Level Translator* ***NEW!***	16-QFN	2892.00/3,000		
ST2349QTR	497-6908-1-ND	4-Bit Dual Supply Level Translator*	16-QFN	1.95	1.67	1.37
ST2349QTR	497-6908-2-ND	4-Bit Dual Supply Level Translator*	16-QFN	2253.00/3,000		
ST2378ETTR	497-3730-1-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	3.02	2.73	2.22
ST2378ETTR	497-3730-2-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	3352.50/2,500		
STDVE001AQTR	497-8383-1-ND	Adaptive Single 3.4Gbps TMDS/HDMI Signal Equalizer*	48-QFN	3.31	2.84	2.32
STBP120AVDK6F	497-8982-1-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1.52	1.36	1.08
STBP120AVDK6F	497-8982-2-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1677.00/3,000		
STBP120BVDK6F	497-8983-1-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1.52	1.36	1.08
STBP120BVDK6F	497-8983-2-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1677.00/3,000		
STBP120DVDK6F	497-8984-1-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1.52	1.36	1.08
STBP120DVDK6F	497-8984-2-ND	Over Voltage Protection with Thermal Shutdown* ***NEW!***	10-TDFN	1677.00/3,000		
STFPC311BTR	497-6107-1-ND	Front Panel Controller/Driver*	52-PQFP	3.17	2.73	2.23
STFPC311BTR	497-6107-2-ND	Front Panel Controller/Driver*	52-PQFP	1446.50/1,100		
STFPC320BTR	497-6918-1-ND	Front Panel Controller/Driver*	52-PQFP	4.73	4.26	3.47
STFPC320BTR	497-6918-2-ND	Front Panel Controller/Driver*	52-PQFP	2425.50/1,100		
STG719STR	497-3738-1-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1.08	.97	.77
STG719STR	497-3738-2-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1194.00/3,000		
STG3155DTR	497-6175-1-ND	Low Voltage Single SPDT Switch*	6-DFN	.77	.70	.55
STG3157CTR	497-2144-1-ND	LV, SPDT, Low On Resistance	SOT-323-6	1.08	.97	.77
STG3157CTR	497-2144-2-ND	LV, SPDT, Low On Resistance	SOT-323-6	1194.00/3,000		
STG3220QTR	497-9077-1-ND	Low Volt. Dual SPDT Switch* ***NEW!***	10-QFN	1.80	1.61	1.28
STG3220QTR	497-9077-2-ND	Low Volt. Dual SPDT Switch* ***NEW!***	10-QFN	1986.00/3,000		
STG3482QTR	497-5966-1-ND	Low Voltage Dual SP4T Switch*	16-QFN	1.91	1.64	1.34
STG3482QTR	497-5966-2-ND	Low Voltage Dual SP4T Switch*	16-QFN	2373.00/3,000		
STG3682QTR	497-5967-1-ND	LV High Bandwidth Dual SPDT Switch*	10-QFN	3.44	3.10	2.52
STG3684AUTR	497-7982-1-ND	Low Volt. 0.5-Ohm Dual SPDT Switch*	10-QFN	2.28	1.96	1.60
STG3684AUTR	497-7982-2-ND	Low Volt. 0.5-Ohm Dual SPDT Switch*	10-QFN	2637.00/3,000		
STG3684QTR	497-3021-1-ND	Low Volt. 0.5-Ohm Dual SPDT Switch	16-QFN	1.69	1.45	1.18
STG3684QTR	497-3021-2-ND	Low Volt. 0.5-Ohm Dual SPDT Switch	16-QFN	2088.00/3,000		
STG3692QTR	497-7983-1-ND	Low Voltage High Bandwidth Quad SPDT Switch*	16-QFN	4.25	3.83	3.12
STG3692QTR	497-7983-2-ND	Low Voltage High Bandwidth Quad SPDT Switch*	16-QFN	5658.00/3,000		
STG3693QTR	497-5968-1-ND	Low Voltage, High Bandwidth Dual SPDT Switch*	16-QFN	2.46	2.12	1.73
STG3693QTR	497-5968-2-ND	Low Voltage, High Bandwidth Dual SPDT Switch*	16-QFN	2850.00/3,000		
STG3699AQTR	497-4524-1-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	3.02	2.72	2.22
STG3699AQTR	497-4524-2-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	4723.20/3,000		
STG3699AUTR	497-4792-1-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	3.47	3.12	2.55
STG3699AUTR	497-4792-2-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	4608.00/3,000		
STG3699BVTR	497-7984-1-ND	Low Voltage 0.5-Ohm Quad SPDT Switch*	16-QFN	3.05	2.62	2.14
STG3699BVTR	497-7984-2-ND	Low Voltage 0.5-Ohm Quad SPDT Switch*	16-QFN	3531.00/3,000		
STG3856QTR	497-6174-1-ND	Low Voltage Dual SP3T Switch*	12-QFN	1.76	1.52	1.24
STG3856QTR	497-6174-2-ND	Low Voltage Dual SP3T Switch*	12-QFN	2040.00/3,000		
STG4210QTR	497-8498-1-ND	LV Dual SPST Analog Switch*	10-QFN	.77	.70	.55
STG4210QTR	497-8498-2-ND	LV Dual SPST Analog Switch*	10-QFN	885.00/3,000		
STG5123DTR	497-6919-1-ND	LV 1-Ohm Single SPDT Switch*	6-DFN	.83	.72	.57
STG5123DTR	497-6919-2-ND	LV 1-Ohm Single SPDT Switch*	6-DFN	1275.00/5,000		
STG5223QTR	497-6920-1-ND	LV 0.5-Ohm Dual SPDT Switch*	10-QFN	1.76	1.58	1.25
STG5223QTR	497-6920-2-ND	LV 0.5-Ohm Dual SPDT Switch*	10-QFN	1941.00/3,000		
STG5682QTR	497-6025-1-ND	Low Voltage Dual SPDT Switch*	16-QFN	2.21	1.89	1.55
STG5682QTR	497-6025-2-ND	Low Voltage Dual SPDT Switch*	16-QFN	2553.00/3,000		
STG5683QTR	497-6921-1-ND	Low Voltage Dual SPDT Switch*	16-QFN	2.21	1.89	1.55
STG6384QTR	497-6922-1-ND	High Isolation Dual SPST Analog Switch*	10-QFN	1.43	1.23	1.00
STG6684QTR	497-6923-1-ND	High Isolation Dual SPDT Analog Switch*	10-QFN	1.36	1.22	.97
STHDLS101AQTR	497-9078-1-ND	AC Coupled HDMI Level Shifter* ***NEW!***	48-QFN	1.80	1.61	1.28
STHDLS101AQTR	497-9078-2-ND	AC Coupled HDMI Level Shifter* ***NEW!***	48-QFN	1655.00/2,500		
STHDLS101QTR	497-7017-1-ND	AC Coupled HDMI Level Shifter*	48-QFN	3.78	3.41	2.78
STHDLS101QTR	497-7017-2-ND	AC Coupled HDMI Level Shifter*	48-QFN	4190.00/2,500		
STHDLS101TQTR	497-8499-1-ND	AC Coupled HDMI Level Shifter*	48-QFN	3.40	3.07	2.50
STHDLS101TQTR	497-8499-2-ND	AC Coupled HDMI Level Shifter*	48-QFN	3770.00/2,500		
STHDMI001ATTR	497-4948-1-ND	3.3V, High Bandwidth, 2-to-1 HDMI Switch	48-TSSOP	3.30	2.26	1.82
STHDMI002ABTR	497-7991-1-ND	Wide Bandwidth, 2-to-1 HDMI Switch*	48-TQFP	4.25	3.83	3.12
STHDMI002ABTR	497-7991-2-ND	Wide Bandwidth, 2-to-1 HDMI Switch*	48-TQFP	4526.40/2,400		
STLA01PUR	497-6437-1-ND	50mA Stand Alone Linear LED Driver*	6-DFN	.97	.87	.69
STLA01PUR	497-6437-2-ND	50mA Stand Alone Linear LED Driver*	6-DFN	1071.00/3,000		
STLED316SMTR	497-6925-1-ND	Sterial-Interfaced 6-Digit LED Controller with Keyscan*	24-SOIC	2.43	2.08	1.70
STLED316SMTR	497-6925-2-ND	Sterial-Interfaced 6-Digit LED Controller with Keyscan*	24-SOIC	1005.00/1,000		
STM86312	497-4363-ND	VFD Controller/Driver	44-PQFP	2.41	2.18	1.75
STMAV335TTR	497-6180-1-ND	SP3T Video Switch*	16-TSSOP	1.84	1.58	1.29
STMAV335TTR	497-6180-2-ND	SP3T Video Switch*	16-TSSOP	1772.50/2,500		
STMAV340TTR	497-8021-1-ND	Low ON Resistance Quad, SPDT, Wide Bandwidth Video Switch*	16-TSSOP	1.84	1.58	1.29
STMAV340TTR	497-8021-2-ND	Low ON Resistance Quad, SPDT, Wide Bandwidth Video Switch*	16-TSSOP	1772.50/2,500		
STMEC001ATTR	497-8022-1-ND	Power Interface Switch for ExpressCard*	20-TSSOP	2.94	2.52	2.06
STMEC001ATTR	497-8022-2-ND	Power Interface Switch for ExpressCard*	20-TSSOP	2835.00/2,500		
STMPE801QTR	497-6132-1-ND	8-Bit Port Expander*	16-QFN	2.79	2.40	1.96
STMPE801QTR	497-6132-2-ND	8-Bit Port Expander*	16-QFN	3231.00/3,000		
STMPE801MTR	497-6134-1-ND	8-Bit Port Expander*	16-SOIC	2.79	2.40	1.96
STMPE811QTR	497-8387-1-ND	8-Bit Port Expander*	16-QFN	3.01	2.59	2.11
STMPE811QTR	497-8387-2-ND	8-Bit Port Expander*	16-QFN	4648.00/4,000		
STMPE2401TBR	497-6133-1-ND	24-Bit Port Expander*	36-TFBGA	3.47	3.12	2.55
STMPE2401TBR	497-6133-2-ND	24-Bit Port Expander*	36-TFBGA	4608.00/3,000		
STMPS2141MTR	497-6932-1-ND	500mA Enhanced Single Channel Power Switch*	8-SOIC	1.16	1.04	.83
STMPS2141MTR	497-6932-2-ND	500mA Enhanced Single Channel Power Switch*	8-SOIC	1067.50/2,500		
STMPS2141STR	497-6933-1-ND	500mA Enhanced Single Channel Power Switch*	SOT-23-5	1.16	1.04	.83
STMPS2141STR	497-6933-2-ND	500mA Enhanced Single Channel Power Switch*	SOT-23-5	1281.00/3,000		
STMPS2141TTR	497-6853-1-ND	500mA Enhanced Single Channel Power Switch*	8-MSOP	1.16	1.04	.83
STMPS2141TTR	497-6853-2-ND	500mA Enhanced Single Channel Power Switch*	8-MSOP	1708.00/4,000		
STMPS2151MTR	497-8349-1-ND	500mA Enhanced Single Channel Power Switch*	8-SOIC	1.16	1.04	.83
STMPS2151MTR	497-8349-2-ND	500mA Enhanced Single Channel Power Switch*	8-SOIC	1067.50/2,500		
STMPS2151STR	497-6934-1-ND	500mA Enhanced Single Channel Power Switch*	SOT-23-5	1.16	1.04	.83
STMPS2151STR	497-6934-2-ND	500mA Enhanced Single Channel Power Switch*	SOT-23-5	1281.00/3,000		
STMPS2151TTR	497-6935-1-ND	500mA Enhanced Single Channel Power Switch*	8-MSOP	1.16	1.04	.83
STMPS2151TTR	497-6935-2-ND	500mA Enhanced Single Channel Power Switch*	8-MSOP	1708.00/4,000		
STMPS2161MTR	497-6854-1-ND	1000mA Enhanced Single Channel Power Switch*	8-SOIC	1.16	1.04	.83
STMPS2161MTR	497-6854-2-ND	1000mA Enhanced Single Channel Power Switch*	8-SOIC	1067.50/2,500		
STMPS2161STR	497-6936-1-ND	1000mA Enhanced Single Channel Power Switch*	SOT-23-5	1.16	1.04	.83

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(Continued)

(Cont.)

LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STMPS2161STR	497-6936-2-ND	1000mA Enhanced Single Channel Power Switch*	SOT-23-5	1281.00/3,000		
STMPS2161TTR	497-6855-1-ND	1000mA Enhanced Single Channel Power Switch*	8-MSOP	1.16	1.04	.83
STMPS2161TTR	497-6855-2-ND	1000mA Enhanced Single Channel Power Switch*	8-MSOP	1708.00/4,000		
STMPS2171MTR	497-6937-1-ND	1000mA Enhanced Single Channel Power Switch*	8-SOIC	1.16	1.04	.83
STMPS2171MTR	497-6937-2-ND	1000mA Enhanced Single Channel Power Switch*	8-SOIC	1067.50/2,500		
STMPS2171STR	497-6856-1-ND	1000mA Enhanced Single Channel Power Switch*	SOT-23-5	1.16	1.04	.83
STMPS2171STR	497-6856-2-ND	1000mA Enhanced Single Channel Power Switch*	SOT-23-5	1281.00/3,000		
STMPS2171TTR	497-6938-1-ND	1000mA Enhanced Single Channel Power Switch*	8-MSOP	1.16	1.04	.83
STMPS2171TTR	497-6938-2-ND	1000mA Enhanced Single Channel Power Switch*	8-MSOP	1708.00/4,000		
STMPS2242MTR	497-10329-1-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	2.76	2.37	1.94
STMPS2242MTR	497-10329-2-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	2660.00/2,500		
STMPS2242TTR	497-10330-1-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	2.76	2.37	1.94
STMPS2242TTR	497-10330-2-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	4256.00/4,000		
STMPS2252MTR	497-10387-1-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	1.84	1.58	1.29
STMPS2252MTR	497-10387-2-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	1772.50/2,500		
STMPS2252TTR	497-10386-1-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	1.84	1.58	1.29
STMPS2252TTR	497-10386-2-ND	500mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	2836.00/4,000		
STMPS2262MTR	497-10056-1-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	1.80	1.61	1.28
STMPS2262MTR	497-10056-2-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	1655.00/2,500		
STMPS2262TTR	497-10057-1-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	1.80	1.61	1.28
STMPS2262TTR	497-10057-2-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	2648.00/4,000		
STMPS2272MTR	497-10331-1-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	2.76	2.37	1.94
STMPS2272MTR	497-10331-2-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-SOIC	2660.00/2,500		
STMPS2272TTR	497-10332-1-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	2.76	2.37	1.94
STMPS2272TTR	497-10332-2-ND	1000mA Enhanced Dual Channel Power Switch* ***NEW!***	8-MSOP	4256.00/4,000		
STMUX1000LQTR	497-4667-1-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux	56-QFN	4.73	4.26	3.47
STMUX1000LQTR	497-4667-2-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux	56-QFN	5237.50/2,500		
STMUX1800EQTR	497-10446-1-ND	Gigabit Ethernet LAN Switch,16-Bit to 8-Bit Mux/Demux * ***NEW!***	42-QFN	3.31	2.84	2.32
STMUX1800EQTR	497-10446-2-ND	Gigabit Ethernet LAN Switch,16-Bit to 8-Bit Mux/Demux * ***NEW!***	42-QFN	3190.00/2,500		
STMUX1800LQTR	497-9079-1-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux/Demux* ***NEW!***	56-QFN	2.21	1.89	1.55
STMUX1800LQTR	497-9079-2-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux/Demux* ***NEW!***	56-QFN	2127.50/2,500		
STMUX3040QTTR	497-7047-1-ND	Octal SPDT High Bandwidth Signal Switch*	42-TQFN	4.71	4.24	3.46
STMUX3040QTTR	497-7047-2-ND	Octal SPDT High Bandwidth Signal Switch*	42-TQFN	5220.00/2,500		
STP04CM05B1R	497-6940-5-ND	4-Bit Constant Current Power LED Sink Driver*	14-Dip	2.54	2.30	1.85
STP04CM05MTR	497-6941-1-ND	4-Bit Constant Current Power LED Sink Driver*	14-SOIC	2.87	2.46	2.01
STP04CM05MTR	497-6941-2-ND	4-Bit Constant Current Power LED Sink Driver*	14-SOIC	2765.00/2,500		
STP04CM05XTTR	497-6942-1-ND	4-Bit Constant Current Power LED Sink Driver*	16-TSSOP	2.94	2.52	2.06
STP04CM05XTTR	497-6942-2-ND	4-Bit Constant Current Power LED Sink Driver*	16-TSSOP	2835.00/2,500		
STP08C596TTR	497-3870-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.60	1.38	1.12
STP08CL596TTR	497-3873-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1.60	1.38	1.12
STP08CL596TTR	497-3873-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1652.50/2,500		
STP08CP05B1	497-6267-5-ND	Low Voltage 8-Bit Shift Register*	16-Dip	2.41	2.18	1.75
STP08CP05MTR	497-6268-1-ND	Low Voltage 8-Bit Shift Register*	16-SOIC	2.72	2.34	1.91
STP08CP05MTR	497-6268-2-ND	Low Voltage 8-Bit Shift Register*	16-SOIC	2622.50/2,500		
STP08CP05TTR	497-6269-1-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	2.72	2.34	1.91
STP08CP05TTR	497-6269-2-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	2622.50/2,500		
STP08CP05XTTR	497-6270-1-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	2.79	2.40	1.96
STP08DP05B1	497-6271-5-ND	8-Bit Constant Current LED Sink Dvr.*	16-Dip	1.82	1.65	1.33
STP08DP05MTR	497-6118-1-ND	8-Bit Constant Current LED Sink Dvr.*	16-SOIC	2.06	1.77	1.45
STP08DP05MTR	497-6118-2-ND	8-Bit Constant Current LED Sink Dvr.*	16-SOIC	1985.00/2,500		
STP08DP05TTR	497-6029-1-ND	8-Bit Constant Current LED Sink Dvr.*	16-TSSOP	2.06	1.77	1.45
STP08DP05XTTR	497-6119-1-ND	8-Bit Constant Current LED Sink Dvr.*	16-TSSOP	2.13	1.83	1.50
STP08DP05XTTR	497-6119-2-ND	8-Bit Constant Current LED Sink Dvr.*	16-TSSOP	2055.00/2,500		
STP16CL596M	497-3878-ND	16-Bit Constant Current LED Sink Dvr.	24-SOIC	2.12	1.92	1.55
STP16CL596MTR	497-3878-1-ND	16-Bit Constant Current LED Sink Dvr.	24-SOIC	2.40	2.06	1.68
STP16CL596MTR	497-3878-2-ND	16-Bit Constant Current LED Sink Dvr.	24-SOIC	1218.00/1,000		
STP16CP05MTR	497-5743-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	2.79	2.40	1.96
STP16CP05MTR	497-5743-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	1157.00/1,000		
STP16CP05TTR	497-5744-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2.79	2.40	1.96
STP16CP05TTR	497-5744-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2692.50/2,500		
STP16CP05PTR	497-8331-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	2.79	2.40	1.96

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LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STP16CP05PTR	497-8331-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	2692.50/2,500		
STP16CP05XTTR	497-5745-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2.94	2.52	2.06
STP16CP05XTTR	497-5745-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2835.00/2,500		
STP16CPC05MTR	497-8525-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	2.79	2.40	1.96
STP16CPC05MTR	497-8525-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	1157.00/1,000		
STP16CPC05PTR	497-8732-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	2.79	2.40	1.96
STP16CPC05TTR	497-8526-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2.79	2.40	1.96
STP16CPC05TTR	497-8526-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2692.50/2,500		
STP16CPC05XTTR	497-8527-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2.94	2.52	2.06
STP16CPC05XTTR	497-8527-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2835.00/2,500		
STP16CPP05MTR	497-8733-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	2.91	2.49	2.04
STP16CPP05PTR	497-8734-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	2.91	2.49	2.04
STP16CPP05PTR	497-8734-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	2802.50/2,500		
STP16CPP05TTR	497-8735-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2.91	2.49	2.04
STP16CPP05TTR	497-8735-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	2802.50/2,500		
STP16CPP05XTTR	497-8736-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3.01	2.59	2.11
STP16CPPS05MTR	497-10333-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	3.13	2.68	2.19
STP16CPPS05MTR	497-10333-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	1295.00/1,000		
STP16CPPS05PTR	497-10334-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3.13	2.68	2.19
STP16CPPS05PTR	497-10334-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3015.00/2,500		
STP16CPPS05TTR	497-10318-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.13	2.68	2.19
STP16CPPS05TTR	497-10318-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3015.00/2,500		
STP16CPPS05XTTR	497-10319-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.20	2.75	2.24
STP16CPPS05XTTR	497-10319-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3085.00/2,500		
STP16CPS05MTR	497-5746-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	3.23	2.78	2.27
STP16CPS05MTR	497-5746-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	1340.00/1,000		
STP16CPS05TTR	497-6120-1-ND	16-Bit Constant Current LED Sink Driver* ***NEW!***	24-TSSOP	3.23	2.78	2.27
STP16CPS05TTR	497-6120-2-ND	16-Bit Constant Current LED Sink Driver* ***NEW!***	24-TSSOP	3117.50/2,500		
STP16CPS05PTR	497-8501-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	3.23	2.78	2.27
STP16CPS05PTR	497-8501-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	3117.50/2,500		
STP16CPS05XTTR	497-5747-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3.31	2.84	2.32
STP16CPS05XTTR	497-5747-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3190.00/2,500		
STP16DP05MTR	497-5975-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	3.38	2.90	2.37
STP16DP05MTR	497-5975-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-SOIC	1401.00/1,000		
STP16DP05PTR	497-8528-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	3.38	2.90	2.37
STP16DP05PTR	497-8528-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-QSOP	3260.00/2,500		
STP16DP05TTR	497-5976-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3.38	2.90	2.37
STP16DP05TTR	497-5976-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3260.00/2,500		
STP16DP05XTTR	497-5977-1-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3.45	2.97	2.42
STP16DP05XTTR	497-5977-2-ND	16-Bit Constant Current LED Sink Dvr.*	24-TSSOP	3330.00/2,500		
STP16DPP05MTR	497-10320-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	3.31	2.84	2.32
STP16DPP05MTR	497-10320-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	1370.00/1,000		
STP16DPP05PTR	497-10321-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3.31	2.84	2.32
STP16DPP05PTR	497-10321-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3190.00/2,500		
STP16DPP05TTR	497-10322-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.31	2.84	2.32
STP16DPP05TTR	497-10322-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3190.00/2,500		
STP16DPP05XTTR	497-10323-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.38	2.90	2.37
STP16DPP05XTTR	497-10323-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3260.00/2,500		
STP24DP05BTR	497-8283-1-ND	24-Bit Constant Current LED Sink Dvr.*	48-TQFP	4.03	3.63	2.96
STP24DP05BTR	497-8283-2-ND	24-Bit Constant Current LED Sink Dvr.*	48-TQFP	4291.20/2,400		
STP16DPPS05MTR	497-9080-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	3.49	3.00	2.45
STP16DPPS05MTR	497-9080-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	1447.00/1,000		
STP16DPPS05PTR	497-9081-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3.49	3.00	2.45
STP16DPPS05PTR	497-9081-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3367.50/2,500		

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(Continued)

STMicroelectronics Digi-Reel® (Cont.)

LOGIC, SIGNAL SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STP16DPPS05TTR	497-9069-1-ND	24-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.49	3.00	2.45
STP16DPPS05TTR	497-9069-2-ND	24-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3367.50/2,500		
STP16DPPS05XTTR	497-9070-1-ND	24-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.09	2.78	2.27
STP16DPPS05XTTR	497-9070-2-ND	24-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3422.50/2,500		
STP16DPS05MTR	497-10447-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	3.49	3.00	2.45
STP16DPS05MTR	497-10447-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-SOIC	1447.00/1,000		
STP16DPS05PTR	497-10448-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3.49	3.00	2.45
STP16DPS05PTR	497-10448-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-QSOP	3367.50/2,500		
STP16DPS05TTR	497-10449-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3.49	3.00	2.45
STP16DPS05TTR	497-10449-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-TSSOP	3367.50/2,500		
STP16DPS05XTTR	497-10450-1-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-HTSSOP	3.15	2.84	2.31
STP16DPS05XTTR	497-10450-2-ND	16-Bit Constant Current LED Sink Dvr.* ***NEW!***	24-HTSSOP	3492.50/2,500		
STPIC6C595MTR	497-3023-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.57	1.41	1.12
STPIC6C595MTR	497-3023-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1450.00/2,500		
STPIC6C595TTR	497-3024-1-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.72	1.54	1.23
STPIC6C595TTR	497-3024-2-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1582.50/2,500		
STPIC6D595B1R	497-6328-5-ND	Power Logic 8-Bit Shift Register*	16-Dip	2.21	2.00	1.61
STPIC6D595MTR	497-6329-1-ND	Power Logic 8-Bit Shift Register*	16-SOIC	2.50	2.15	1.75
STPIC6D595MTR	497-6329-2-ND	Power Logic 8-Bit Shift Register*	16-SOIC	2410.00/2,500		
STPIC6D595TTR	497-6330-1-ND	Power Logic 8-Bit Shift Register*	16-TSSOP	2.50	2.15	1.75
STPIC6D595TTR	497-6330-2-ND	Power Logic 8-Bit Shift Register*	16-TSSOP	2410.00/2,500		

STMicroelectronics Digi-Reel®

MEMORY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DSM2150F5V-12T6	497-1320-ND	3.3V, Digital Signal Processor System Memory*	80-TQFP	16.93	15.39	13.08
DSM2190F4V-15K6	497-1337-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	12.83	11.67	9.92
LRI2K-A1S/1GE	497-5533-1-ND	64-Bit Unique ID Memory Tag	—	1.59	1.37	1.12
LRIS2K-A1S/1GE	497-5534-1-ND	64-Bit Unique ID Memory Tag	—	1.48	1.33	1.06
M4Z28-BR00SH1	497-3689-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	6.56	5.91	4.86
M4T28-BR12SH1	497-3686-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	6.83	6.15	5.06
M4Z32-BR00SH1	497-3690-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	9.98	8.98	7.39
M4T32-BR12SH1	497-3687-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	9.71	8.75	7.19
M4T32-BR12SH6	497-3688-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	10.76	9.69	7.97
M24C01-RDW6TP	497-8628-1-ND	5.5V, 1K-Bit Serial EEPROM*	8-TSSOP	.58	.47	.35
M24C01-RDW6TP	497-8628-2-ND	5.5V, 1K-Bit Serial EEPROM*	8-TSSOP	652.00/4,000		
M24C01-RMN6TP	497-8629-1-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	.70	.56	.42
M24C01-RMN6TP	497-8629-2-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	492.50/2,500		
M24C01-WBN6P	497-8557-ND	5.5V, 1K-Bit Serial EEPROM*	8-PDip	.54	.46	.34
M24C01-WDW6TP	497-8630-1-ND	5.5V, 1K-Bit Serial EEPROM*	8-TSSOP	.62	.50	.38
M24C01-WDW6TP	497-8630-2-ND	5.5V, 1K-Bit Serial EEPROM*	8-TSSOP	700.00/4,000		
M24C01-WMN6TP	497-8631-1-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	.55	.44	.33
M24C01-WMN6TP	497-8631-2-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	387.50/2,500		
M24C01-WMN6TP/S	497-8632-1-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	.66	.57	.45
M24C01-WMN6TP/S	497-8632-2-ND	5.5V, 1K-Bit Serial EEPROM*	8-SOIC	545.00/2,500		
M24C02-RDW6T	497-1605-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.37	.85	.62
M24C02-RDW6T	497-1605-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	2128.00/4,000		
M24C02-RMB6TG	497-8703-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	.46	.41	.33
M24C02-RMB6TG	497-8703-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	420.00/2,500		
M24C02-RMN6TP	497-8633-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-SOIC	.77	.62	.47
M24C02-RMN6TP	497-8633-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-SOIC	542.50/2,500		
M24C02-WBN6P	497-8584-5-ND	5.5V, 2K-Bit Serial EEPROM*	8-Dip	.56	.48	.36
M24C02-WDW6TP	497-4926-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	.65	.52	.39
M24C02-WDW6TP	497-4926-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	732.00/4,000		
M24C02-WMN6TP	497-8552-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-SOIC	.58	.47	.35
M24C02-WMN6TP	497-8552-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-SOIC	410.00/2,500		
M24C04-RDW6TP	497-8634-1-ND	5.5V, 4K-Bit Serial EEPROM*	8-TSSOP	.77	.62	.47
M24C04-RDW6TP	497-8634-2-ND	5.5V, 4K-Bit Serial EEPROM*	8-TSSOP	868.00/4,000		
M24C04-RMN6TP	497-8635-1-ND	5.5V, 4K-Bit Serial EEPROM*	8-SOIC	.77	.62	.47
M24C04-RMN6TP	497-8635-2-ND	5.5V, 4K-Bit Serial EEPROM*	8-SOIC	542.50/2,500		
M24C04-WBN6P	497-8561-ND	5.5V, 4K-Bit Serial EEPROM*	8-PDip	.61	.52	.39
M24C04-WDW6TP	497-5088-1-ND	5.5V, 4K-Bit Serial EEPROM	8-TSSOP	.72	.58	.43
M24C04-WDW6TP	497-5088-2-ND	5.5V, 4K-Bit Serial EEPROM	8-TSSOP	808.00/4,000		
M24C04-WMN6TP	497-5671-1-ND	5.5V, 4K-Bit Serial EEPROM*	8-SOIC	.65	.53	.40
M24C04-WMN6TP	497-5671-2-ND	5.5V, 4K-Bit Serial EEPROM*	8-SOIC	460.00/2,500		
M24C08-RDW6TP	497-8636-1-ND	5.5V, 8K-Bit Serial EEPROM*	8-TSSOP	.73	.63	.50
M24C08-RDW6TP	497-8636-2-ND	5.5V, 8K-Bit Serial EEPROM*	8-TSSOP	956.00/4,000		
M24C08-RMB6TG	497-8553-1-ND	5.5V, 8K-Bit Serial EEPROM*	8-UFDFPN	.97	.84	.66
M24C08-RMB6TG	497-8553-2-ND	5.5V, 8K-Bit Serial EEPROM*	8-UFDFPN	797.50/2,500		
M24C08-RMN6TP	497-8637-1-ND	5.5V, 8K-Bit Serial EEPROM*	8-SOIC	.66	.57	.45
M24C08-RMN6TP	497-8637-2-ND	5.5V, 8K-Bit Serial EEPROM*	8-SOIC	545.00/2,500		
M24C08-WBN6P	497-8564-ND	5.5V, 8K-Bit Serial EEPROM*	8-PDip	.68	.58	.43
M24C08-WDW6TP	497-8638-1-ND	5.5V, 8K-Bit Serial EEPROM*	8-TSSOP	.79	.63	.48
M24C08-WDW6TP	497-8638-2-ND	5.5V, 8K-Bit Serial EEPROM*	8-TSSOP	888.00/4,000		
M24C08-WMN6TP	497-8554-1-ND	5.5V, 8K-Bit Serial EEPROM*	8-SOIC	.70	.56	.42
M24C08-WMN6TP	497-8554-2-ND	5.5V, 8K-Bit Serial EEPROM*	8-SOIC	492.50/2,500		
M24C16-RBN6P	497-8566-ND	5.5V, 16K-Bit Serial EEPROM*	8-PDip	.64	.56	.44
M24C16-RDW6TP	497-8639-1-ND	5.5V, 16K-Bit Serial EEPROM*	8-TSSOP	.77	.67	.53
M24C16-RDW6TP	497-8639-2-ND	5.5V, 16K-Bit Serial EEPROM*	8-TSSOP	1020.00/4,000		

STMicroelectronics Digi-Reel® (Cont.)

MEMORY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M24C16-RMB6TG	497-8704-1-ND	5.5V, 16K-Bit Serial EEPROM*	8-UFDFPN	.75	.65	.51
M24C16-RMB6TG	497-8704-2-ND	5.5V, 16K-Bit Serial EEPROM*	8-UFDFPN	617.50/2,500		
M24C16-RMN6TP	497-8640-1-ND	5.5V, 16K-Bit Serial EEPROM*	8-SOIC	.88	.76	.60
M24C16-RMN6TP	497-8640-2-ND	5.5V, 16K-Bit Serial EEPROM*	8-SOIC	725.00/2,500		
M24C16-WBN6P	497-8568-ND	5.5V, 16K-Bit Serial EEPROM*	8-PDip	.64	.54	.41
M24C16-WDW6TP	497-8641-1-ND	5.5V, 16K-Bit Serial EEPROM*	8-TSSOP	.89	.77	.61
M24C16-WDW6TP	497-8641-2-ND	5.5V, 16K-Bit Serial EEPROM*	8-TSSOP	1172.00/4,000		
M24C32-FDW5TP	497-8642-1-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	.95	.85	.68
M24C32-FDW5TP	497-8642-2-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	1400.00/4,000		
M24C32-RDW6TP	497-8643-1-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	.88	.76	.60
M24C32-RDW6TP	497-8643-2-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	1160.00/4,000		
M24C32-RMB6TG	497-8705-1-ND	5.5V, 32K-Bit Serial EEPROM*	8-UFDFPN	.95	.85	.68
M24C32-RMB6TG	497-8705-2-ND	5.5V, 32K-Bit Serial EEPROM*	8-UFDFPN	875.00/2,500		
M24C32-RMN6TP	497-8644-1-ND	5.5V, 32K-Bit Serial EEPROM*	8-SOIC	1.06	.92	.73
M24C32-RMN6TP	497-8644-2-ND	5.5V, 32K-Bit Serial EEPROM*	8-SOIC	877.50/2,500		
M24C32-WBN6P	497-8571-ND	5.5V, 32K-Bit Serial EEPROM*	8-Dip	.83	.73	.56
M24C32-WDW6TP	497-8645-1-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	.91	.79	.63
M24C32-WDW6TP	497-8645-2-ND	5.5V, 32K-Bit Serial EEPROM*	8-TSSOP	1200.00/4,000		
M24C32-WMN6TP	497-5027-1-ND	5.5V, 32K-Bit Serial EEPROM	8-SOIC	.88	.76	.60
M24C32-WMN6TP	497-5027-2-ND	5.5V, 32K-Bit Serial EEPROM	8-SOIC	725.00/2,500		
M24C64-FDW5TP	497-8646-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	1.06	.96	.76
M24C64-FDW5TP	497-8646-2-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	1568.00/4,000		
M24C64-RDW6TP	497-8647-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	.99	.89	.71
M24C64-RDW6TP	497-8647-2-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	1456.00/4,000		
M24C64-RMN6TP	497-8648-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-SOIC	.99	.89	.71
M24C64-RMN6TP	497-8648-2-ND	5.5V, 64K-Bit Serial EEPROM*	8-SOIC	910.00/2,500		
M24C64-WBN6P	497-8575-ND	5.5V, 64K-Bit Serial EEPROM*	8-PDip	.90	.80	.64
M24C64-WDW6TP	497-8649-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	.98	.88	.70
M24C64-WDW6TP	497-8649-2-ND	5.5V, 64K-Bit Serial EEPROM*	8-TSSOP	1444.00/4,000		
M24C64-WMN6TP	497-8650-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-SOIC	.98	.88	.70
M24C64-WMN6TP	497-8650-2-ND	5.5V, 64K-Bit Serial EEPROM*	8-SOIC	902.50/2,500		
M24M01-RMN6TP	497-6351-1-ND	5.5V, 1M-Bit Serial EEPROM*	8-SOIC	3.30	2.97	2.42
M24M01-RMN6TP	497-6351-2-ND	5.5V, 1M-Bit Serial EEPROM*	8-SOIC	3657.50/2,500		
M24M01-RMW6G	497-8587-5-ND	5.5V, 1M-Bit Serial EEPROM*	8-SOIC	3.22	2.88	2.36
M24M01-RMW6GT	497-8651-1-ND	5.5V, 1M-Bit Serial EEPROM*	8-SOIC	3.45	3.11	2.53
M24M01-RMW6GT	497-8651-2-ND	5.5V, 1M-Bit Serial EEPROM*	8-SOIC	2415.00/1,500		
M25P10-AVMP6T	497-3592-1-ND	3.6V, 1M-Bit Serial Flash	8-VFQFPN	1.54	1.34	1.00
M25P10-AVMP6T	497-3592-2-ND	3.6V, 1M-Bit Serial Flash	8-VFQFPN	2918.40/4,000		
M27C64A-10F1	497-1684-5-ND	64K-Bit (8Kb x 8), 100nS, UV EPROM	28-CDip	7.75	6.98	5.74
M27C64A-15F1	497-1685-5-ND	64K-Bit (8Kb x 8), 150nS, UV EPROM	28-CDip	6.75	6.08	5.00
M27C64A-20F1	497-1686-5-ND	64K-Bit (8Kb x 8), 200nS, UV EPROM	28-CDip	7.75	6.98	5.74
M27C256B-12F6	497-1647-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-CDip	5.46	4.88	4.00
M27C256B-15F1	497-1650-5-ND	256K-Bit (32Kb x 8), 150nS, UV EPROM	28-CDip	5.46	4.88	4.00
M27C512-12F1	497-1671-5-ND	512K-Bit (64Kb x 8), 120nS, UV EPROM	28-CDip	5.74	5.13	4.21
M27C512-15F6	497-1676-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-CDip	5.74	5.13	4.21
M27C512-70C6	497-1678-5-ND	512K-Bit (64Kb x 8), 70nS, OTP EPROM	32-PLCC	2.87	2.56	2.10
M27C512-70XF1	497-1679-5-ND	512K-Bit (64Kb x 8), 70nS, UV EPROM	28-CDip	5.21	4.65	3.82
M27C512-90B6	497-1682-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-CDip	2.87	2.56	2.10
M27C801-100F1	497-1688-5-ND	8M-Bit (1Mb x 8), 100nS, UV EPROM	32-CDip	9.75	8.78	7.22
M27C1001-10B1	497-1625-5-ND	1M-Bit (128Kb x 8), 100nS, OTP EPROM	32-PDip	3.80	3.40	2.79
M27C1001-12C6	497-1630-5-ND	1M-Bit (128Kb x 8), 100nS, UV EPROM*	32-PLCC	3.61	3.22	2.65
M27C1001-12F1	497-1631-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-CDip	6.69	5.98	4.90
M27C1001-15F1	497-1635-5-ND	1M-Bit (128Kb x 8), 150nS, UV EPROM	32-CDip	6.69	5.98	4.90
M27C2001-10B1	497-1638-5-ND	2M-Bit (256Kb x 8), 100nS, OTP EPROM	32-Dip	3.99	3.57	2.93
M27C2001-10F1	497-1639-5-ND	2M-Bit (256Kb x 8), 100nS, UV EPROM	32-CDip	7.05	6.35	5.22
M27C4001-10B1	497-1657-5-ND	4M-Bit (512Kb x 8), 100nS, OTP EPROM	32-Dip	4.54	4.06	3.33
M27C4001-10F1	497-1658-5-ND	4M-Bit (512Kb x 8), 100nS, UV EPROM	32-CDip	8.43	7.59	6.24
M27C4001-12F1	497-1661-5-ND	4M-Bit (512Kb x 8), 120nS, UV EPROM	32-CDip	8.43	7.59	6.24
M27C4001-15F1	497-1663-5-ND	4M-Bit (512Kb x 8), 150nS, UV EPROM	32-CDip	9.85	8.87	7.29
M27C4001-80XF1	497-1664-5-ND	4M-Bit (512Kb x 8), 80nS, UV EPROM	32-CDip	8.43	7.59	6.24
M27W401-80K6	497-1693-5-ND	4M-Bit (512Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	4.42	3.95	3.24
M28W320CB90N6	497-1694-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	17.50	15.00	13.30
M34C02-RDW6TP	497-8652-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-TSSOP	.74	.59	.45
M34C02-RDW6TP	497-8652-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-TSSOP	832.00/4,000		
M34C02-RMB6TG	497-8706-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	.66	.57	.45
M34C02-RMB6TG	497-8706-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	545.00/2,500		
M34C02-WDW6T	497-1723-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.08	.67	.49
M34D64-WMN6TP	497-8653-1-ND	5.5V, 64K-Bit Serial EEPROM*	8-SOIC	.97	.87	.69
M34E02-FDW1TP	497-8654-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-TSSOP	.78	.63	.47
M34E02-FDW1TP	497-8654-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-TSSOP	880.00/4,000		
M34E02-FMB1TG	497-8707-1-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	1.14	1.02	.81
M34E02-FMB1TG	497-8707-2-ND	5.5V, 2K-Bit Serial EEPROM*	8-UFDFPN	1050.00/2,500		
M41T56M6F	497-4706-1-ND	56-Bit, Serial RTC NVRAM* ***NEW!***	8-SOIC	3.15	2.84	2.31

***** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® *(Cont.)*

MEMORY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M41T56M6F	497-4706-2-ND	56-Bit, Serial RTC NVRAM* ***NEW!***	8-SOIC	3492.50/2,500		
M41T66Q6F	497-8377-1-ND	Serial Access RTC with Alarm*	16-QFN	2.91	2.49	2.04
M41T66Q6F	497-8377-2-ND	Serial Access RTC with Alarm*	16-QFN	3363.00/3,000		
M48T02-70PC1	497-2827-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	20.10	18.27	15.53
M48T02-150PC1	497-2825-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	20.58	19.04	16.21
M48T08-100PC1	497-2828-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	23.10	21.37	18.20
M48T08-150PC1	497-2829-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	23.10	21.37	18.20
M48T08Y-10MH1E	497-2830-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	19.64	17.85	15.18
M48T08Y-10MH1F	497-4710-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	13.78	10.55	9.76
M48T08Y-10MH1F	497-4710-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11486.59/936		
M48T12-70PC1	497-2833-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	18.48	16.80	14.28
M48T12-150PC1	497-2831-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	20.58	19.04	16.21
M48T18-100PC1	497-2837-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	23.10	21.37	18.20
M48T18-150PC1	497-2838-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	23.10	21.37	18.20
M48T35-70PC1	497-2845-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	28.14	26.03	22.17
M48T35AV-10MH1E	497-2846-5-ND	3.3V, 256K-Bit TIMEKEEPER® SRAM*	28-SOIC	17.90	16.28	13.84
M48T35AV-10MH1F	497-4714-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	18.72	17.09	14.65
M48T35AV-10MH1F	497-4714-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	10473.84/936		
M48T35AV-10PC1	497-2848-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	28.14	26.03	22.17
M48T35Y-70MH1E	497-2849-5-ND	5V, 256K-Bit TIMEKEEPER® SRAM*	28-SOIC	19.06	17.33	14.73
M48T35Y-70MH1F	497-4716-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	19.92	18.20	15.60
M48T35Y-70MH1F	497-4716-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	11149.63/936		
M48T35Y-70PC1	497-2851-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	28.14	26.03	22.17
M48T08Y-10MH1	497-2830-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	19.64	17.85	15.18
M48T37V-10MH1E	497-2852-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	20.21	18.38	15.62
M48T37V-10MH1F	497-4718-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	21.13	19.30	16.54
M48T37V-10MH1F	497-4718-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	11825.42/936		
M48T37V-10MH1F	497-4718-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	11825.42/936		
M48T37Y-70MH1E	497-2854-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	20.21	18.38	15.62
M48T37Y-70MH1F	497-4720-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.34	11.75	10.87
M48T37Y-70MH1F	497-4720-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	11825.42/936		
M48T37Y-70MH6F	497-4721-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T58-70PC1	497-2857-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	21.84	20.21	17.20
M48T58Y-70MH1E	497-2858-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.44	10.40	8.84
M48T58Y-70MH1F	497-4722-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.00	8.05	7.08
M48T58Y-70PC1	497-2859-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	21.84	20.21	17.20
M48T128Y-70PM1	497-2834-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	49.53	46.19	40.17
M48T129V-85PM1	497-2835-5-ND	3.3V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	50.51	47.10	40.95
M48T129Y-70PM1	497-2836-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	54.35	51.16	45.57
M48T201V-85MH1E	497-2839-5-ND	3V, 1M-Bit TIMEKEEPER® NVRAM*	44-SOH	13.46	12.24	10.40
M48T201V-85MH1F	497-4711-1-ND	3.3V, 1M-Bit TIMEKEEPER® NVRAM	44-SOIC	14.07	12.85	11.02
M48T512Y-70PM1	497-2856-5-ND	5V, 4M-Bit TIMEKEEPER® NVRAM	32-Dip	69.30	65.10	58.80
M48Z02-70PC1	497-2868-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	11.32	10.29	8.75
M48Z02-150PC1	497-2865-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	13.17	11.97	10.18
M48Z08-100PC1	497-2869-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	18.48	16.80	14.28
M48Z2M1V-85PL1	497-6709-5-ND	3.3V, 16M-Bit ZEROPOWER® SRAM*	36-Dip	136.91	127.93	119.41
M48Z2M1Y-70PL1	497-6710-5-ND	5V, 16M-Bit ZEROPOWER® SRAM*	36-Dip	152.25	144.38	136.50
M48Z12-70PC1	497-2872-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	11.55	10.50	8.93
M48Z12-150PC1	497-2870-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	13.17	11.97	10.18
M48Z18-100PC1	497-2877-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	18.48	16.80	14.28
M48Z32V-35MT1E	497-2878-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOP	11.98	10.78	8.87
M48Z32V-35MT1F	497-4726-1-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOP	9.71	7.10	6.25
M48Z35-70PC1	497-2879-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	20.08	18.25	15.52
M48Z35AV-10MH1E	497-2880-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	10.45	9.50	8.08
M48Z35AV-10PC1	497-2882-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	11.57	10.53	8.95
M48Z35Y-70MH1E	497-2883-5-ND	5V, 256K-Bit ZEROPOWER® SRAM*	28-SOIC	13.57	12.34	10.49
M48Z35Y-70MH1F	497-4728-1-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.68	8.94	8.27
M48Z35Y-70MH1F	497-4728-2-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	7937.28/936		
M48Z35Y-70PC1	497-2885-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	20.08	18.25	15.52
M48Z58-70PC1	497-2888-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	17.33	15.75	13.39
M48Z58Y-70MH1F	497-4730-1-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	10.99	9.96	8.30
M48Z58Y-70MH1F	497-4730-2-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	5532.70/936		
M48Z58Y-70PC1	497-3685-5-ND	5.5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	17.33	15.75	13.39
M48Z128-70PM1	497-2873-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	32.55	30.11	25.64
M48Z128Y-70PM1	497-2874-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM*	32-Dip	32.55	30.11	25.64
M48Z128Y-85PM1	497-2875-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	31.50	29.14	24.81
M48Z129V-85PM1	497-2876-5-ND	3.3V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	33.60	31.08	26.46
M48Z512A-70PM1	497-2886-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM* ***NEW!***	32-DIP	51.32	48.31	43.02
M48Z512AV-85PM1	497-8550-5-ND	3.3V, 4M-Bit ZEROPOWER® NVRAM*	32-PMDip	55.07	51.83	46.16
M48Z512AY-70PM1	497-2887-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM	32-Dip	51.32	48.31	43.02
M48Z512BV-85PM1	497-8334-5-ND	3.3V, 4M-Bit ZEROPOWER® NVRAM*	32-Dip	63.00	59.50	48.13
M93C46-WBN6P	497-8589-5-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-Dip	.55	.47	.35
M93C46-WDW6TP	497-8655-1-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	.64	.51	.39
M93C46-WDW6TP	497-8655-2-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	720.00/4,000		
M93C46-WMN6TP	497-5090-1-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.64	.51	.39
M93C46-WMN6TP	497-5090-2-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	450.00/2,500		
M93C56-RMN6TP	497-8656-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.73	.59	.44
M93C56-WDW6TP	497-8657-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	.73	.59	.44
M93C56-WDW6TP	497-8657-2-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	820.00/4,000		
M93C56-WMN6T	497-1931-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM	8-SOIC	1.08	.97	.77
M93C56-WMN6T	497-1931-2-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM	8-SOIC	1032.50/2,500		
M93C56-WMN6TP	497-8658-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.67	.54	.40
M93C56-WMN6TP	497-8658-2-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	470.00/2,500		
M93C66-RMB6TG	497-8708-1-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-UFDFPN	.97	.84	.66
M93C66-RMB6TG	497-8708-2-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-UFDFPN	797.50/2,500		
M93C66-WDW6TP	497-8659-1-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	.68	.59	.47
M93C66-WDW6TP	497-8659-2-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	900.00/4,000		
M93C66-WMN6P	497-5672-5-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.62	.55	.42
M93C66-WMN6TP	497-8660-1-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.73	.59	.44
M93C66-WMN6TP	497-8660-2-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	512.50/2,500		
M93C66-RDW6TP	497-8661-1-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	.68	.62	.49
M93C66-RDW6TP	497-8661-2-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	1008.00/4,000		
M93C76-WMN6TP	497-8662-1-ND	5.5V, 8K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.79	.69	.54
M93C76-WMN6TP	497-8662-2-ND	5.5V, 8K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	652.50/2,500		
M93C86-MN6P	497-8594-5-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.96	.84	.65
M93C86-MN6TP	497-8663-1-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1.06	.92	.72
M93C86-MN6TP	497-8663-2-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	870.00/2,500		
M93C86-WBN6P	497-8595-5-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-PDip	.91	.80	.62
M93C86-WDW6TP	497-8664-1-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	1.00	.87	.69
M93C86-WDW6TP	497-8664-2-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-TSSOP	1324.00/4,000		
M93C86-WMN6P	497-4927-5-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM	8-SOIC	.91	.80	.62
M93C86-WMN6TP	497-8665-1-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	.95	.82	.65
M93C86-WMN6TP	497-8665-2-ND	5.5V, 16K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	780.00/2,500		
M93S46-WMN6TP	497-8666-1-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1.14	1.02	.81
M93S46-WMN6TP	497-8666-2-ND	5.5V, 1K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1050.00/2,500		
M93S56-WMN6T	497-1943-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM	8-SOIC	1.76	1.09	.80
M93S56-WMN6TP	497-8667-1-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1.33	1.19	.95
M93S56-WMN6TP	497-8667-2-ND	5.5V, 2K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1225.00/2,500		
M93S66-WMN6TP	497-8668-1-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1.48	1.33	1.06
M93S66-WMN6TP	497-8668-2-ND	5.5V, 4K-Bit MICROWIRE® Serial Access EEPROM*	8-SOIC	1365.00/2,500		
M24128-BRDW6TP	497-8618-1-ND	5.5V, 128K-Bit Serial EEPROM*	8-TSSOP	1.79	1.61	1.28
M24128-BRDW6TP	497-8618-2-ND	5.5V, 128K-Bit Serial EEPROM*	8-TSSOP	2644.00/4,000		
M24128-BRMN6TP	497-8619-1-ND	5.5V, 128K-Bit Serial EEPROM*	8-SOIC	1.48	1.33	1.06
M24128-BRMN6TP	497-8619-2-ND	5.5V, 128K-Bit Serial EEPROM*	8-SOIC	1365.00/2,500		
M24128-BWDW6TP	497-8620-1-ND	5.5V, 128K-Bit Serial EEPROM*	8-TSSOP	1.71	1.53	1.22
M24128-BWDW6TP	497-8620-2-ND	5.5V, 128K-Bit Serial EEPROM*	8-TSSOP	2520.00/4,000		
M24128-BWMN6TP	497-8621-1-ND	5.5V, 128K-Bit Serial EEPROM*	8-SOIC	1.71	1.53	1.22
M24128-BWMN6TP	497-8621-2-ND	5.5V, 128K-Bit Serial EEPROM*	8-SOIC	1572.50/2,500		
M24256-BRDW6TP	497-6347-1-ND	5.5V, 256K-Bit Serial EEPROM*	8-TSSOP	2.28	1.95	1.60
M24256-BRDW6TP	497-6347-2-ND	5.5V, 256K-Bit Serial EEPROM*	8-TSSOP	3512.00/4,000		
M24256-BRMN6TP	497-6348-1-ND	5.5V, 256K-Bit Serial EEPROM*	8-SOIC	2.28	1.95	1.60
M24256-BRMN6TP	497-6348-2-ND	5.5V, 256K-Bit Serial EEPROM*	8-SOIC	2195.00/2,500		
M24256-BWDW6TP	497-8622-1-ND	5.5V, 256K-Bit Serial EEPROM*	8-TSSOP	2.28	1.95	1.60
M24256-BWDW6TP	497-8622-2-ND	5.5V, 256K-Bit Serial EEPROM*	8-TSSOP	3512.00/4,000		
M24256-BWMN6TP	497-8623-1-ND	5.5V, 256K-Bit Serial EEPROM*	8-SOIC	1.96	1.68	1.38
M24256-BWMN6TP	497-8623-2-ND	5.5V, 256K-Bit Serial EEPROM*	8-SOIC	1890.00/2,500		
M24512-RDW6TP	497-6349-1-ND	5.5V, 512K-Bit Serial EEPROM*	8-TSSOP	2.59	2.22	1.82
M24512-RDW6TP	497-6349-2-ND	5.5V, 512K-Bit Serial EEPROM*	8-TSSOP	3996.00/4,000		
M24512-RMN6TP	497-6350-1-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2.98	2.55	2.09
M24512-RMN6TP	497-6350-2-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2870.00/2,500		
M24512-WDW6TP	497-8625-1-ND	5.5V, 512K-Bit Serial EEPROM*	8-TSSOP	2.59	2.22	1.82
M24512-WDW6TP	497-8625-2-ND	5.5V, 512K-Bit Serial EEPROM*	8-TSSOP	3996.00/4,000		
M24512-WMN6TP	497-8626-1-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2.98	2.55	2.09
M24512-WMN6TP	497-8626-2-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2870.00/2,500		
M24512-WMW6G	497-8583-5-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2.85	2.58	2.07
M24512-WMW6TG	497-8627-1-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	3.22	2.76	2.26
M24512-WMW6TG	497-8627-2-ND	5.5V, 512K-Bit Serial EEPROM*	8-SOIC	2001.00/1,500		
M95010-RDW6TP	497-8669-1-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.75	.65	.51
M95010-RDW6TP	497-8669-2-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-TSSOP	988.00/4,000		
M95010-RMN6TP	497-8670-1-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-SOIC	.75	.65	.51
M95010-RMN6TP	497-8670-2-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-SOIC	617.50/2,500		
M95010-WDW6TP	497-8671-1-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.66	.57	.45
M95010-WDW6TP	497-8671-2-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-TSSOP	872.00/4,000		
M95010-WMN6TP	497-8672-1-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-SOIC	.66	.57	.45
M95010-WMN6TP	497-8672-2-ND	5.5V, 1K-Bit Serial SPI Bus EEPROM*	8-SOIC	545.00/2,500		
M95020-RDW6TP	497-8673-1-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.75	.65	.52

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MEMORY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M95020-RDW6TP	497-8673-2-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-TSSOP	992.00/4,000		
M95020-RMB6TG	497-8709-1-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	.75	.65	.52
M95020-RMB6TG	497-8709-2-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	620.00/2,500		
M95020-WMN6TP	497-8676-1-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-SOIC	.75	.65	.52
M95020-WMN6TP	497-8676-2-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-SOIC	620.00/2,500		
M95040-RDW6TP	497-8677-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.86	.75	.59
M95040-RDW6TP	497-8677-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1132.00/4,000		
M95020-RMN6TP	497-8674-1-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.29	1.16	.92
M95020-RMN6TP	497-8674-2-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-SOIC	1190.00/2,500		
M95020-WDW6TP	497-8675-1-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.75	.65	.52
M95020-WDW6TP	497-8675-2-ND	5.5V, 2K-Bit Serial SPI Bus EEPROM*	8-TSSOP	992.00/4,000		
M95040-RMB6TG	497-8710-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	.86	.75	.59
M95040-RMB6TG	497-8710-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	707.50/2,500		
M95040-RMN6TP	497-8678-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	.86	.75	.59
M95040-RMN6TP	497-8678-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	707.50/2,500		
M95040-WDW6TP	497-8679-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.86	.75	.59
M95040-WDW6TP	497-8679-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1132.00/4,000		
M95040-WMN6TP	497-5286-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	.86	.75	.59
M95040-WMN6TP	497-5286-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	707.50/2,500		
M95080-RDW6TP	497-8680-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.99	.89	.71
M95080-RDW6TP	497-8680-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1456.00/4,000		
M95080-RMB6TG	497-8711-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	.76	.68	.54
M95080-RMB6TG	497-8711-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	700.00/2,500		
M95080-RMN6TP	497-8681-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.03	.89	.71
M95080-RMN6TP	497-8681-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-SOIC	847.50/2,500		
M95080-WDW6TP	497-8682-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1.03	.89	.71
M95080-WDW6TP	497-8682-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1356.00/4,000		
M95080-WMN6TP	497-8683-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.03	.89	.71
M95080-WMN6TP	497-8683-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM*	8-SOIC	847.50/2,500		
M95128-RDW6TP	497-8684-1-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1.80	1.54	1.26
M95128-RDW6TP	497-8684-2-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-TSSOP	2772.00/4,000		
M95128-RMB6TG	497-8555-1-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	1.61	1.38	1.13
M95128-RMB6TG	497-8555-2-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	1552.50/2,500		
M95128-RMN6TP	497-8685-1-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.75	1.50	1.23
M95128-RMN6TP	497-8685-2-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-SOIC	1687.50/2,500		
M95128-WMN6TP	497-8686-1-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.73	1.55	1.23
M95128-WMN6TP	497-8686-2-ND	5.5V, 128K-Bit Serial SPI Bus EEPROM*	8-SOIC	1590.00/2,500		
M95160-RDW6TP	497-8687-1-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1.03	.92	.73
M95160-RDW6TP	497-8687-2-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1512.00/4,000		
M95160-RMB6TG	497-8712-1-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	1.03	.92	.73
M95160-RMB6TG	497-8712-2-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-UFDFPN	945.00/2,500		
M95160-RMN6TP	497-8688-1-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.03	.92	.73
M95160-RMN6TP	497-8688-2-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-SOIC	945.00/2,500		
M95160-WDW6TP	497-8689-1-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-TSSOP	.95	.85	.68
M95160-WDW6TP	497-8689-2-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1400.00/4,000		
M95160-WMN6TP	497-8690-1-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.05	.91	.72
M95160-WMN6TP	497-8690-2-ND	5.5V, 16K-Bit Serial SPI Bus EEPROM*	8-SOIC	862.50/2,500		
M95256-RDW6TP	497-6352-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-TSSOP	2.98	2.55	2.09
M95256-RDW6TP	497-6352-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-TSSOP	4592.00/4,000		
M95256-RMN6P	497-6353-5-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2.64	2.38	1.92
M95256-RMN6TP	497-6354-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2.98	2.55	2.09
M95256-RMN6TP	497-6354-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2870.00/2,500		
M95256-WDW6TP	497-6355-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-TSSOP	2.98	2.55	2.09
M95256-WDW6TP	497-6355-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-TSSOP	4592.00/4,000		

STMicroelectronics Digi-Reel® (Cont.)

MEMORY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M95256-WMN6P	497-6357-5-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2.26	2.04	1.64
M95256-WMN6TP	497-8691-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2.55	2.19	1.79
M95256-WMN6TP	497-8691-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM*	8-SOIC	2457.50/2,500		
M95320-RMB6TG	497-8713-1-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-MLP	1.52	1.36	1.08
M95320-RMB6TG	497-8713-2-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-MLP	1400.00/2,500		
M95320-WDW6TP	497-8693-1-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1.17	1.05	.83
M95320-WDW6TP	497-8693-2-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1720.00/4,000		
M95320-WMN6TP	497-8694-1-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.18	1.06	.84
M95320-WMN6TP	497-8694-2-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-SOIC	1085.00/2,500		
M95320-WMN6TP/P	497-8695-1-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-SOIC	3.22	2.76	2.26
M95320-WMN6TP/P	497-8695-2-ND	5.5V, 32K-Bit Serial SPI Bus EEPROM*	8-SOIC	3105.00/2,500		
M95512-RDW6TP	497-6358-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-TSSOP	3.15	2.70	2.21
M95512-RDW6TP	497-6358-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-TSSOP	4860.00/4,000		
M95512-RMN6TP	497-6356-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-SOIC	3.15	2.70	2.21
M95512-RMN6TP	497-6356-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-SOIC	3037.50/2,500		
M95512-WDW6TP	497-8696-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-TSSOP	3.15	2.70	2.21
M95512-WDW6TP	497-8696-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-TSSOP	4860.00/4,000		
M95512-WMN6TP	497-8697-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-SOIC	3.15	2.70	2.21
M95512-WMN6TP	497-8697-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM*	8-SOIC	3037.50/2,500		
M95640-RMN6TP	497-8698-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.52	1.36	1.08
M95640-RMN6TP	497-8698-2-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-SOIC	1400.00/2,500		
M95640-WDW6TP	497-8699-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1.32	1.18	.94
M95640-WDW6TP	497-8699-2-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-TSSOP	1944.00/4,000		
M95640-WMN6T	497-1947-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM	8-SOIC	2.90	1.99	1.60
M95640-WMN6TP	497-8700-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-SOIC	1.32	1.18	.94
M95640-WMN6TP	497-8700-2-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM*	8-SOIC	1215.00/2,500		
M95M01-RMN6TP	497-8701-1-ND	5.5V, 1M-Bit Serial SPI Bus EEPROM*	8-SOIC	4.50	4.05	3.30
M95M01-RMN6TP	497-8701-2-ND	5.5V, 1M-Bit Serial SPI Bus EEPROM*	8-SOIC	4987.50/2,500		
M95M01-RMW6G	497-8617-5-ND	5.5V, 1M-Bit Serial SPI Bus EEPROM*	8-SOIC	4.20	3.75	3.08
M95M01-RMW6TG	497-8702-1-ND	5.5V, 1M-Bit Serial SPI Bus EEPROM*	8-SOIC	4.50	4.05	3.30
M95M01-RMW6TG	497-8702-2-ND	5.5V, 1M-Bit Serial SPI Bus EEPROM*	8-SOIC	3150.00/1,500		
PSD813F1VA-15J	497-1981-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCUs	52-PLCC	13.73	12.48	10.61
PSD813F1VA-15U	497-1983-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCUs	80-TQFP	14.81	13.47	11.45
PSD813F2VA-20JI	497-1997-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCUs	52-PLCC	13.71	12.46	10.60
PSD834F2V-15J	497-2010-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCUs	52-PLCC	16.55	15.05	12.80
PSD834F2V-15M	497-2011-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCUs	52-QFP	20.14	18.31	15.57
SRIX4K-A3S/1GE	497-5536-1-ND	13.56MHz Short Range Contactless Memory Chip	—	2.07	1.78	1.45

STMicroelectronics Digi-Reel®

POWER CONVERSION MODULES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
SPAC265BC12P0.30	497-8379-5-ND	AC-DC Switch Mode Pwr Supply, Encapsulated*	—	33.00	30.53	25.99
SPAC265FC12P0.30	497-8380-5-ND	AC-DC Switch Mode Power Supply, Open Frame*	—	26.40	24.42	20.79
SPDCPOE05	497-8925-ND	10W POE Module* ***NEW!***	—	44.26	41.28	35.89
SPDCPOE12	497-10149-ND	10W POE Module* ***NEW!***	—	44.26	41.28	35.89

STMicroelectronics Digi-Reel®

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
A5970ADTR	497-10183-1-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	5.67	5.11	4.16
A5970ADTR	497-10183-2-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	6285.00/2,500		
A5970D13TR	497-10184-1-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	4.25	3.83	3.12
A5970D13TR	497-10184-2-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	4715.00/2,500		
A5972D013TR	497-10185-1-ND	1.5A Step-Dn Switching Reg.* ***NEW!***	8-SOIC	4.91	4.43	3.61
A5972D013TR	497-10185-2-ND	1.5A Step-Dn Switching Reg.* ***NEW!***	8-SOIC	5447.50/2,500		
A5973ADTR	497-10186-1-ND	1.5A Step-Dn Switching Reg.* ***NEW!***	8-HSOP	5.10	4.60	3.75
A5973ADTR	497-10186-2-ND	1.5A Step-Dn Switching Reg.* ***NEW!***	8-HSOP	5655.00/2,500		
A5973D013TR	497-10187-1-ND	2A Step-Dn Switching Reg.* ***NEW!***	8-HSOP	4.73	4.26	3.47
A5973D013TR	497-10187-2-ND	2A Step-Dn Switching Reg.* ***NEW!***	8-HSOP	5237.50/2,500		
A6902D13TR	497-10188-1-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	5.29	4.77	3.89
A6902D13TR	497-10188-2-ND	1A Step-Down Switching Reg.* ***NEW!***	8-SOIC	5865.00/2,500		
AVS1ACP08	497-4551-ND	Auto Voltage Switch*	8-Dip	4.12	3.68	3.02
AVS08CB	497-2567-5-ND	Auto Voltage Switch*	TO-220AB	2.41	2.18	1.75
AVS12CB	497-2564-5-ND	Auto Voltage Switch*	TO-220AB	2.97	2.66	2.18
B5973DTR	497-10190-1-ND	2A Step-Down Switching Reg.* ***NEW!***	8-HSOP	5.83	5.25	4.28

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
B5973DTR	497-10190-2-ND	2A Step-Down Switching Reg.* **NEW!**	8-HSOP	6460.00/2,500		
E-L5991AD	497-5288-5-ND	Primary Controller with Standby*	16-SOIC	1.82	1.65	1.33
E-L6561	497-4580-ND	Power Factor Corrector*	8-Mini Dip	1.32	1.19	.96
E-L6910TR	497-4591-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	2.70	2.43	1.98
E-L6919ETR	497-4592-1-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	2.80	2.40	1.96
E-L6925D013TR	497-4594-1-ND	High Eff. Mono Sync. Step-Down Reg.*	8-MSOP	2.43	2.09	1.70
E-L6925D013TR	497-4594-2-ND	High Eff. Mono Sync. Step-Down Reg.*	8-MSOP	4012.00/4,000		
E-L6932D1.2	497-5057-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.40	2.18	1.75
E-L6932D1.2TR	497-4596-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.71	2.33	1.90
E-SG2525AN	497-4644-5-ND	Regulating Pulse Width Modulator*	16-Dip	1.49	1.35	1.09
E-SG2525AP013TR	497-4683-1-ND	Regulating Pulse Width Modulator*	16-SOIC	1.69	1.45	1.18
E-SG2525AP013TR	497-4683-2-ND	Regulating Pulse Width Modulator*	16-SOIC	1992.50/2,500		
E-UC2843BN	497-4599-5-ND	Current Mode PWM Controller*	8-Dip	.91	.81	.64
E-UC2845BN	497-4601-5-ND	Current Mode PWM Controller*	8-Dip	1.20	1.04	.80
GS-R12F0002.0	497-8251-ND	2A DC/DC Converter Module*	—	15.73	14.30	12.16
GS-R12FS0001.9	497-8252-ND	1.9A DC/DC Converter Module*	—	10.97	9.88	8.12
GS-R12FV0001.9	497-8253-ND	1.9A DC/DC Converter Module*	—	11.66	10.50	8.63
GS-R24F0002.0	497-8254-ND	2A DC/DC Converter Module*	—	15.32	13.93	11.84
GS-R24FS0001.8	497-8255-ND	1.8A DC/DC Converter Module*	—	10.92	9.83	8.08
GS-R24FV0001.8	497-8256-ND	1.8A DC/DC Converter Module*	—	11.63	10.47	8.61
GS-R400V	497-8272-ND	High Current, High Voltage Step Down Switching Voltage Regulator*	—	47.40	44.20	38.43
GS-R405S	497-8273-ND	High Current, High Voltage Step Down Switching Voltage Regulator*	—	48.58	45.30	39.39
GS-R415	497-8274-ND	High Current, High Voltage Step Down Switching Voltage Regulator*	—	47.40	44.20	38.43
GS-R424	497-8275-ND	High Current, High Voltage Step Down Switching Voltage Regulator*	—	47.40	44.20	38.43
KF25BD-TR	497-7756-1-ND	2.5V, VLDO Voltage Regulator*	8-SOIC	1.65	1.48	1.18
KF25BD-TR	497-7756-2-ND	2.5V, VLDO Voltage Regulator*	8-SOIC	1522.50/2,500		
KF25BDT-TR	497-4202-1-ND	2.5V, VLDO Voltage Regulator	D-PAK	1.29	1.16	.92
KF25BDT-TR	497-4202-2-ND	2.5V, VLDO Voltage Regulator	D-PAK	1187.50/2,500		
KF33BD-TR	497-7757-1-ND	3.3V, VLDO Voltage Regulator*	8-SOIC	1.47	1.32	1.05
KF33BD-TR	497-7757-2-ND	3.3V, VLDO Voltage Regulator*	8-SOIC	1355.00/2,500		
KF33BDT-TR	497-1148-1-ND	3.3V, VLDO Voltage Regulator	D-PAK	1.61	1.45	1.15
KF33BDT-TR	497-1148-2-ND	3.3V, VLDO Voltage Regulator	D-PAK	1485.00/2,500		
KF40BDT-TR	497-6972-1-ND	4V, VLDO Voltage Regulator*	D-PAK	1.37	1.23	.98
KF40BDT-TR	497-6972-2-ND	4V, VLDO Voltage Regulator*	D-PAK	1260.00/2,500		
KF50BD-TR	497-7758-1-ND	5V, VLDO Voltage Regulator*	8-SOIC	1.47	1.32	1.05
KF50BD-TR	497-7758-2-ND	5V, VLDO Voltage Regulator*	8-SOIC	1355.00/2,500		
KF50BDT-TR	497-1149-1-ND	5V, VLDO Voltage Regulator	D-PAK	1.44	1.29	1.03
KF50BDT-TR	497-1149-2-ND	5V, VLDO Voltage Regulator	D-PAK	1322.50/2,500		
KF80BDT-TR	497-1151-1-ND	8V, Very LDO Voltage Regulator	D-PAK	1.44	1.29	1.03
KF80BDT-TR	497-1151-2-ND	8V, Very LDO Voltage Regulator	D-PAK	1322.50/2,500		
KD1084AD2T18R	497-7754-1-ND	1.8V, 5A LDO Positive Voltage Reg.*	D2-PAK	2.91	2.49	2.04
KD1084AD2T18R	497-7754-2-ND	1.8V, 5A LDO Positive Voltage Reg.*	D2-PAK	1204.00/1,000		
KD1084ADT-R	497-7755-1-ND	Adj., 5A LDO Positive Voltage Reg.*	D-PAK	1.75	1.58	1.27
L200CV	497-1382-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	2.08	1.89	1.52
L296	497-2939-5-ND	High Current Switching Regulator	15-Multiwatt	8.69	7.83	6.44
L296HT	497-3994-5-ND	High Current Switching Regulator	15-Multiwatt	6.70	6.04	4.96
L296P	497-1392-5-ND	High Current Switching Regulator	15-Multiwatt	9.85	8.87	7.29
L296PHT	497-3995-5-ND	High Current Switching Regulator	15-Multiwatt	7.89	7.11	5.85
L4931ABD25-TR	497-1154-1-ND	2.5V, Very LDO Voltage Regulator	8-SOIC	1.24	1.11	.88
L4931ABD33-TR	497-1155-1-ND	3.3V, Very LDO Voltage Regulator	8-SOIC	1.38	1.24	.99
L4931ABD33-TR	497-1155-2-ND	3.3V, Very LDO Voltage Regulator	8-SOIC	1270.00/2,500		
L4931ABD35-TR	497-7759-1-ND	3.5V, VLDO Voltage Regulator*	8-SOIC	1.60	1.43	1.14
L4931ABD35-TR	497-7759-2-ND	3.5V, VLDO Voltage Regulator*	8-SOIC	1470.00/2,500		
L4931ABD50-TR	497-1156-1-ND	5V, VLDO Voltage Regulator	8-SOIC	1.38	1.24	.99
L4931ABD50-TR	497-1156-2-ND	5V, VLDO Voltage Regulator	8-SOIC	1270.00/2,500		
L4931ABD120TR	497-1153-1-ND	12V, Very LDO Voltage Regulator	8-SOIC	1.19	1.07	.85
L4931ABD120TR	497-1153-2-ND	12V, VLDO Voltage Regulator	8-SOIC	1100.00/2,500		
L4931ABDT25TR	497-1158-1-ND	2.5V, VLDO Voltage Regulator	D-PAK	1.33	1.19	.95
L4931ABDT33-TR	497-1159-1-ND	3.3V, VLDO Voltage Regulator	D-PAK	1.33	1.20	.95
L4931ABDT33-TR	497-1159-2-ND	3.3V, VLDO Voltage Regulator	D-PAK	1227.50/2,500		
L4931ABDT35TR	497-7760-1-ND	3.5V, VLDO Voltage Regulator*	D-PAK	1.72	1.54	1.23
L4931ABDT35TR	497-7760-2-ND	3.5V, VLDO Voltage Regulator*	D-PAK	1582.50/2,500		
L4931ABDT50-TR	497-1160-1-ND	5V, VLDO Voltage Regulator	D-PAK	1.55	1.39	1.10
L4931ABDT50-TR	497-1160-2-ND	5V, VLDO Voltage Regulator	D-PAK	1425.00/2,500		
L4931ABDT80-TR	497-1161-1-ND	8V, VLDO Voltage Regulator	D-PAK	1.72	1.54	1.23
L4931ABDT80-TR	497-1161-2-ND	8V, VLDO Voltage Regulator	D-PAK	1582.50/2,500		
L4931ABZ25	497-1001-ND	2.5V, VLDO Voltage Regulator	TO-92	.94	.84	.66
L4931CD33-TR	497-6640-1-ND	3.3V 250mA VLDO Regulator*	8-SOIC	1.29	1.16	.92
L4931CD33-TR	497-6640-2-ND	3.3V 250mA VLDO Regulator*	8-SOIC	1187.50/2,500		
L4931CD33-TRY	497-10191-1-ND	3.3V 250mA VLDO Regulator* **NEW!**	8-SOIC	1.54	1.38	1.10
L4931CD33-TRY	497-10191-2-ND	3.3V 250mA VLDO Regulator* **NEW!**	8-SOIC	1417.50/2,500		
L4931CD50-TR	497-6429-1-ND	5V, VLDO Voltage Regulator*	8-SOIC	1.29	1.16	.92
L4931CD50-TR	497-6429-2-ND	5V, VLDO Voltage Regulator*	8-SOIC	1187.50/2,500		
L4931CD80-TR	497-4770-1-ND	8V, VLDO Voltage Regulator	8-SOIC	1.24	1.11	.89
L4931CD80-TR	497-4770-2-ND	8V, VLDO Voltage Regulator	8-SOIC	1140.00/2,500		
L4931CD120-TR	497-7761-1-ND	12V, VLDO Voltage Regulator*	8-SOIC	1.48	1.33	1.06
L4931CD120-TR	497-7761-2-ND	12V, VLDO Voltage Regulator*	8-SOIC	1362.50/2,500		
L4931CDT33-TR	497-7762-1-ND	3.3V, VLDO Voltage Regulator*	D-PAK	1.64	1.47	1.17
L4931CDT33-TR	497-7762-2-ND	3.3V, VLDO Voltage Regulator*	D-PAK	1507.50/2,500		
L4931CDT50-TR	497-4204-1-ND	5V, VLDO Voltage Regulator	D-PAK	1.38	1.24	.99
L4931CDT50-TR	497-4204-2-ND	5V, VLDO Voltage Regulator	D-PAK	1270.00/2,500		
L4931CZ33-AP	497-7246-1-ND	3.3V, VLDO Voltage Regulator*	TO-92	1.32	1.18	.94
L4931CZ33-AP	497-7246-3-ND	3.3V, VLDO Voltage Regulator*	TO-92	971.60/2,000		
L4931CZ50-AP	497-5838-1-ND	5V, VLDO Voltage Regulator*	TO-92	1.16	1.04	.83
L4931CZ50-AP	497-5838-3-ND	5V, VLDO Voltage Regulator*	TO-92	876.40/2,000		
L4940D2T5-TR	497-1166-1-ND	5V, VLDO 1.5A Regulator	D2-PAK	2.54	2.18	1.78
L4940D2T5-TR	497-1166-2-ND	5V, VLDO 1.5A Regulator	D2-PAK	1051.00/1,000		
L4940D2T10-TR	497-7763-1-ND	10V, VLDO 1.5A Regulator*	D2-PAK	1.84	1.58	1.29
L4940D2T10-TR	497-7763-2-ND	10V, VLDO 1.5A Regulator*	D2-PAK	761.00/1,000		
L4940D2T12-TR	497-6430-1-ND	12V, VLDO 1.5A Regulator*	D2-PAK	1.84	1.58	1.29
L4940D2T12-TR	497-6430-2-ND	12V, VLDO 1.5A Regulator*	D2-PAK	761.00/1,000		
L4940V5	497-1404-5-ND	5V, VLDO 1.5A Regulator	TO-220	2.21	2.00	1.61
L4941BDT-TR	497-1168-1-ND	5V, 1A VLDO Regulator	D-PAK	1.76	1.52	1.24
L4941BV	497-6695-5-ND	5V, 1A VLDO Regulator*	TO-220	1.63	1.47	1.19
L4957AD1.8	497-5290-5-ND	1.8V, 5A ULDO Linear Regulator*	D2-PAK	2.12	1.92	1.55
L4960	497-1406-5-ND	2.5A Power Switching Regulator*	Heptawatt	4.76	4.26	3.49
L4960H	497-2942-5-ND	2.5A Power Switching Regulator	7-Heptawatt	5.29	4.73	3.88
L4962/A	497-1407-5-ND	1.5A Power Switching Regulator	16-Power Dip	2.98	2.66	2.18
L4962EH/A	497-7247-5-ND	1.5A Power Switching Regulator*	Heptawatt	5.59	4.99	4.09
L4963D013TR	497-6641-1-ND	1.5A Switching Regulator*	20-SOIC	5.36	4.82	3.93

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L4963D013TR	497-6641-2-ND	1.5A Switching Regulator*	20-SOIC	2499.00/1,000		
L4963W	497-6696-5-ND	1.5A Switching Regulator*	18-Dip	5.00	4.47	3.66
L4964	497-1409-5-ND	High Current Switching Regulator	15-Multiwatt	9.19	8.27	6.80
L4964HT	497-7248-5-ND	High Current Switching Regulator*	15-Multiwatt	6.09	5.44	4.46
L4970A	497-1410-5-ND	10A Switching Regulator	15-Multiwatt	16.82	15.29	13.00
L4971	497-6697-5-ND	1.5A Step-Down Switching Regulator*	8-Dip	5.29	4.73	3.88
L4971D013TR	497-3357-1-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.73	4.26	3.47
L4971D013TR	497-3357-2-ND	1.5A Step-Down Switching Regulator	16-SOIC	2205.00/1,000		
L4972A	497-6698-5-ND	2A Switching Regulator*	20-PowerDip	6.56	5.91	4.86
L4972AD013TR	497-4207-1-ND	2A Step-Down Switching Regulator	20-SOIC	6.96	6.30	5.25
L4972AD013TR	497-4207-2-ND	2A Step-Down Switching Regulator	20-SOIC	3544.00/1,000		
L4973D3.3-013TR	497-3358-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.00	4.39	3.87
L4973D3.3-013TR	497-3358-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3827.00/1,000		
L4973D5.1	497-1412-5-ND	3.5A Step-Down Switching Regulator	20-SOIC	7.09	6.38	5.25
L4973D5.1-013TR	497-3359-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	7.51	6.81	5.67
L4973D5.1-013TR	497-3359-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3827.00/1,000		
L4973V3.3	497-1413-5-ND	3.5A Step-Down Switching Regulator*	18-Dip	7.09	6.38	5.25
L4973V5.1	497-7249-5-ND	3.5A Step-Down Switching Regulator*	18-Dip	7.09	6.38	5.25
L4974A	497-6699-5-ND	3.5A Switching Regulator*	20-PowerDip	10.76	9.69	7.97
L4976	497-6700-5-ND	1A Step-Down Switching Regulator*	8-Dip	4.50	4.02	3.30
L4976D013TR	497-3360-1-ND	1A Step-Down Switching Regulator	16-SOIC	4.59	4.14	3.37
L4976D013TR	497-3360-2-ND	1A Step-Down Switching Regulator	16-SOIC	2250.00/1,000		
L4977A	497-5336-5-ND	7A Switching Regulator*	15-Multiwatt	13.17	11.97	10.18
L4978	497-6701-5-ND	2A Step-Down Switching Regulator*	8-Dip	5.32	4.76	3.90
L4981AD013TR	497-4562-1-ND	Power Factor Corrector*	20-SOIC	6.30	5.67	4.62
L4981AD013TR	497-4562-2-ND	Power Factor Corrector*	20-SOIC	2940.00/1,000		
L4981B	497-5337-5-ND	Power Factor Corrector*	20-Dip	6.62	5.91	4.85
L4981BD	497-5338-5-ND	Power Factor Corrector*	20-SOIC	6.62	5.91	4.85
L4981BD013TR	497-5339-1-ND	Power Factor Corrector*	20-SOIC	7.09	6.38	5.20
L4981BD013TR	497-5339-2-ND	Power Factor Corrector*	20-SOIC	3308.00/1,000		
L5970ADTR	497-6140-1-ND	1.5A Step-Down Switching Regulator*	8-SOIC	4.73	4.26	3.47
L5970ADTR	497-6140-2-ND	1.5A Step-Down Switching Regulator*	8-SOIC	5237.50/2,500		
L5970D013TR	497-3636-1-ND	Up to 1A Step-Down Switching Reg.*	8-SOIC	3.53	3.18	2.59
L5970D013TR	497-3636-2-ND	Up to 1A Step-Down Switching Reg.*	8-SOIC	3910.00/2,500		
L5972D013TR	497-3637-1-ND	2A Switching Regulator*	8-SOIC	4.10	3.69	3.01
L5972D013TR	497-3637-2-ND	2A Switching Regulator*	8-SOIC	4537.50/2,500		
L5973AD	497-4565-5-ND	2.5A Step-Down Switching Regulator*	8-SOIC	3.97	3.55	2.91
L5973ADTR	497-5328-1-ND	2.5A Step-Down Switching Regulator*	8-SOIC	4.25	3.83	3.12
L5973ADTR	497-5328-2-ND	2.5A Step-Down Switching Regulator*	8-SOIC	4715.00/2,500		
L5973D013TR	497-4566-1-ND	2.5A Step-Down Switching Regulator*	8-SOIC	3.94	3.55	2.89
L5973D013TR	497-4566-2-ND	2.5A Step-Down Switching Regulator*	8-SOIC	4365.00/2,500		
L5980TR	497-6858-1-ND	0.7A Step-Down Switching Regulator*	8-VFQFPN	3.31	2.84	2.32
L5980TR	497-6858-2-ND	0.7A Step-Down Switching Regulator*	8-VFQFPN	5104.00/4,000		
L5981TR	497-6859-1-ND	1A Step-Down Switching Regulator*	8-VFQFPN	3.31	2.84	2.32
L5981TR	497-6859-2-ND	1A Step-Down Switching Regulator*	8-VFQFPN	5104.00/4,000		
L5983TR	497-6860-1-ND	1.5A Step-Down Switching Regulator*	8-VFQFPN	3.31	2.84	2.32
L5983TR	497-6860-2-ND	1.5A Step-Down Switching Regulator*	8-VFQFPN	5104.00/4,000		
L5985TR	497-6861-1-ND	2A Step-Down Switching Regulator*	8-VFQFPN	3.02	2.73	2.22
L5985TR	497-6861-2-ND	2A Step-Down Switching Regulator*	8-VFQFPN	5364.00/4,000		
L5986ATR	497-8517-1-ND	2.5A Step-Down Switching Regulator*	8-HSOP	3.02	2.73	2.22
L5986ATR	497-8517-2-ND	2.5A Step-Down Switching Regulator*	8-HSOP	3352.50/2,500		
L5986TR	497-8503-1-ND	2.5A Step-Down Switching Regulator*	8-VFQFPN	3.49	3.00	2.45
L5986TR	497-8503-2-ND	2.5A Step-Down Switching Regulator*	8-VFQFPN	5388.00/4,000		
L5987ATR	497-8518-1-ND	3A Step-Down Switching Regulator*	8-HSOP	3.09	2.78	2.27
L5987ATR	497-8518-2-ND	3A Step-Down Switching Regulator*	8-HSOP	3422.50/2,500		
L5987TR	497-8494-1-ND	3A Step-Down Switching Regulator*	8-VFQFPN	3.06	2.76	2.25
L5987TR	497-8494-2-ND	3A Step-Down Switching Regulator*	8-VFQFPN	5420.00/4,000		
L5988DTR	497-8820-1-ND	4A Step Down Switching Reg.* **NEW!**	16-HTSSOP	3.34	3.01	2.45
L5988DTR	497-8820-2-ND	4A Step Down Switching Reg.* **NEW!**	16-HTSSOP	3700.00/2,500		
L5989DTR	497-8821-1-ND	4A Step Down Switching Reg.* **NEW!**	16-HTSSOP	4.00	3.61	2.94
L5989DTR	497-8821-2-ND	4A Step Down Switching Reg.* **NEW!**	16-HTSSOP	4435.00/2,500		
L5991	497-7251-5-ND	Primary Controller w/Standby*	16-Dip	3.21	2.87	2.35
L5991AD13TR	497-3996-1-ND	Primary Controller with Standby	16-SOIC	2.65	2.27	1.86
L5991AD13TR	497-3996-2-ND	Primary Controller with Standby	16-SOIC	2552.50/2,500		
L5993D	497-2387-5-ND	Constant Power Controller	16-SOIC	3.21	2.87	2.35
L6561	497-3653-ND	Power Factor Corrector*	8-Dip	1.49	1.33	1.05
L6561D013TR	497-4582-1-ND	Power Factor Corrector*	8-SOIC	1.62	1.45	1.16
L6561D013TR	497-4582-2-ND	Power Factor Corrector*	8-SOIC	1490.00/2,500		
L6562ADTR	497-6294-1-ND	Transition Mode PFC Controller*	8-SOIC	1.80	1.61	1.28
L6562ADTR	497-6294-2-ND	Transition Mode PFC Controller*	8-SOIC	1655.00/2,500		
L6562AN	497-6295-5-ND	Transition Mode PFC Controller*	8-Dip	1.66	1.47	1.16
L6562ATDTR	497-8928-1-ND	Transition Mode PFC Contrlr* **NEW!**	8-SOIC	1.56	1.40	1.11
L6562ATDTR	497-8928-2-ND	Transition Mode PFC Contrlr* **NEW!**	8-SOIC	1435.00/2,500		
L6562DTR	497-4583-1-ND	Transition Mode PFC Controller*	8-SOIC	1.59	1.43	1.13
L6562DTR	497-4583-2-ND	Transition Mode PFC Controller*	8-SOIC	1462.50/2,500		
L6562N	497-5329-5-ND	Transition Mode PFC Controller*	8-Dip	1.46	1.30	1.03
L6563ATR	497-6129-1-ND	Transition Mode PFC Controller*	14-SOIC	1.61	1.45	1.15
L6563ATR	497-6129-2-ND	Transition Mode PFC Controller*	14-SOIC	1485.00/2,500		
L6563HTR	497-9075-1-ND	Transition Mode PFC Controller* **NEW!**	16-SOIC	2.02	1.74	1.42
L6563HTR	497-9075-2-ND	Transition Mode PFC Controller* **NEW!**	16-SOIC	1950.00/2,500		
L6563STR	497-10148-1-ND	Transition Mode PFC Controller* **NEW!**	14-SOIC	1.16	1.04	.83
L6563STR	497-10148-2-ND	Transition Mode PFC Controller* **NEW!**	14-SOIC	1067.502,500		
L6563TR	497-6130-2-ND	Transition Mode PFC Controller*	14-SOIC	1700.00/2,500		
L6564DTR	497-10327-1-ND	Transition Mode PFC Controller* **NEW!**	10-SSOP	1.52	1.36	1.08
L6564DTR	497-10327-2-ND	Transition Mode PFC Controller* **NEW!**	10-SSOP	1397.50/2,500		
L6565DTR	497-4584-1-ND	Quasi-Resonant SMPS Controller*	8-SOIC	2.02	1.74	1.42
L6565DTR	497-4584-2-ND	Quasi-Resonant SMPS Controller*	8-SOIC	1950.00/2,500		
L6566ATR	497-6296-1-ND	Multi-Mode SMPS Controller*	16-SOIC	2.21	1.89	1.55
L6566ATR	497-6296-2-ND	Multi-Mode SMPS Controller*	16-SOIC	2127.50/2,500		
L6566BHTR	497-10389-1-ND	Multi-Mode SMPS Controller* **NEW!**	SO-16N	2.21	1.89	1.55
L6566BHTR	497-10389-2-ND	Multi-Mode SMPS Controller* **NEW!**	SO-16N	2127.50/2,500		
L6566BTR	497-6297-1-ND	Multi-Mode SMPS Controller*	16-SOIC	2.21	1.89	1.55
L6566BTR	497-6297-2-ND	Multi-Mode SMPS Controller*	16-SOIC	2127.50/2,500		
L6591	497-8286-ND	ZVS Half-Bridge PWM Controller*	16-SOIC	3.09	2.76	2.27
L6598	497-6704-5-ND	High Volt. Resonant Controller*	16-Dip	3.53	3.15	2.59
L6598D013TR	497-4020-1-ND	High Voltage Resonant Controller	16-SOIC	3.12	2.81	2.29
L6598D013TR	497-4020-2-ND	High Voltage Resonant Controller	16-SOIC	3457.50/2,500		
L6599ADTR	497-8519-1-ND	High Voltage Resonant Controller*	16-SOIC	3.62	3.27	2.66
L6599ADTR	497-8519-2-ND	High Voltage Resonant Controller*	16-SOIC	4017.50/2,500		
L6599AN	497-8547-5-ND	High Voltage Resonant Controller*	16-Dip	3.23	2.89	2.37
L6599ATDTR	497-9068-1-ND	High Voltage Resonant Ctrlr.* **NEW!**	16-SOIC	3.81	3.44	2.80
L6599ATDTR	497-9068-2-ND	High Voltage Resonant Ctrlr.* **NEW!**	16-SOIC	4225.00/2,500		
L6599DTR	497-6156-1-ND	High Voltage Resonant Controller*	16-SOIC	4.73	4.26	3.47
L6599DTR	497-6156-2-ND	High Voltage Resonant Controller*	16-SOIC	5237.50/2,500		
L6599N	497-5723-ND	High Voltage Resonant Controller*	16-Dip	4.41	3.94	3.23

* *RoHS Compliant*

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(Continued)

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L6615D013TR	497-4023-1-ND	High/Low Side Load Share Controller	8-SOIC	2.76	2.37	1.94
L6615D013TR	497-4023-2-ND	High/Low Side Load Share Controller	8-SOIC	2659.50/2,500		
L6668TR	497-5094-1-ND	Smart Primary Controller*	16-SOIC	2.57	2.21	1.81
L6706TR	497-8975-1-ND	Single Phase Controller* ***NEW!***	40-VFQFPN	3.02	2.73	2.22
L6706TR	497-8975-2-ND	Single Phase Controller* ***NEW!***	40-VFQFPN	4023.00/3,000		
L6711TR	497-5363-1-ND	3-Phase Controller*	48-TQFP	4.27	3.85	3.14
L6711TR	497-5363-2-ND	3-Phase Controller*	48-TQFP	4927.20/2,400		
L6712ADTR	497-4218-1-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	6.68	6.05	5.04
L6712ADTR	497-4218-2-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	3402.00/1,000		
L6712AQTR	497-5179-1-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	6.14	5.53	4.51
L6712AQTR	497-5179-2-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	6810.00/2,500		
L6712QTR	497-4219-1-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	5.15	3.53	2.84
L6712QTR	497-4219-2-ND	2-Phase DC/DC Controller*	36-VFQFPN	6810.00/2,500		
L6713ATR	497-7764-1-ND	2/3 Phase Controller*	64-TQFP	6.14	5.53	4.51
L6713ATR	497-7764-2-ND	2/3 Phase Controller*	64-TQFP	2867.00/1,000		
L6714TR	497-5095-1-ND	4-Phase Ctrlr. with Embedded Drivers*	64-TQFP	6.77	6.10	4.97
L6714TR	497-5095-2-ND	4-Phase Ctrlr. with Embedded Drivers*	64-TQFP	3161.00/1,000		
L6716TR	497-10054-1-ND	2/3/4 Phase Ctrlr. with Embedded Dvr.* ***NEW!***	48-VFQFPN	6.30	5.67	4.62
L6716TR	497-10054-2-ND	2/3/4 Phase Ctrlr. with Embedded Dvr.* ***NEW!***	48-VFQFPN	6982.50/2,500		
L6722TR	497-5904-1-ND	3-Phase Cont. for DC/DC Converters*	36-VFQFPN	4.55	4.03	3.12
L6722TR	497-5904-2-ND	3-Phase Cont. for DC/DC Converters*	36-VFQFPN	3835.00/2,500		
L6725ATR	497-5905-1-ND	Voltage Mode PWM Controller with Bootstrap Anti-discharging System*	16-SOIC	2.25	1.98	1.68
L6726ATR	497-5906-1-ND	Single Phase PWM Controller*	8-SOIC	1.60	1.43	1.14
L6726ATR	497-5906-2-ND	Single Phase PWM Controller*	8-SOIC	1470.00/2,500		
L6727TR	497-5907-1-ND	Single Phase PWM Controller*	8-SOIC	2.10	1.85	1.57
L6728AHTR	497-8977-1-ND	Single Phase PWM Controller* ***NEW!***	10-VFQFPN	2.57	2.21	1.81
L6728AHTR	497-8977-2-ND	Single Phase PWM Controller* ***NEW!***	10-VFQFPN	3968.00/4,000		
L6728ATR	497-8324-1-ND	Single Phase PWM Controller*	10-VFQFPN	2.46	2.11	1.72
L6728ATR	497-8324-2-ND	Single Phase PWM Controller*	10-VFQFPN	4060.00/4,000		
L6728DTR	497-10432-1-ND	Single Phase PWM Controller* ***NEW!***	10-DFN	2.57	2.21	1.81
L6728DTR	497-10432-2-ND	Single Phase PWM Controller* ***NEW!***	10-DFN	3968.00/4,000		
L6728HTR	497-8978-1-ND	Single Phase PWM Controller* ***NEW!***	10-DFN	2.45	2.10	1.72
L6728HTR	497-8978-2-ND	Single Phase PWM Controller* ***NEW!***	10-DFN	3780.00/4,000		
L6728TR	497-6274-1-ND	Single Phase PWM Controller*	10-DFN	2.14	1.84	1.50
L6728TR	497-6274-2-ND	Single Phase PWM Controller*	10-DFN	3540.00/4,000		
L6730	497-5291-5-ND	Adjustable Step-Down Controller*	20-TSSOP	3.21	2.87	2.35
L6730TR	497-5098-1-ND	Adjustable Step-Down Controller*	20-TSSOP	3.44	3.10	2.52
L6730TR	497-5098-2-ND	Adjustable Step-Down Controller*	20-TSSOP	3807.50/2,500		
L6731DTR	497-6112-1-ND	Adjustable Step-Down Controller*	16-TSSOP	3.20	2.75	2.24
L6731DTR	497-6112-2-ND	Adjustable Step-Down Controller*	16-TSSOP	3085.00/2,500		
L6732TR	497-5240-1-ND	Adjustable Step-Down Controller*	16-TSSOP	3.26	2.88	2.44
L6740LTR	497-6298-1-ND	Hybrid Controller for AMD*	48-TQFP	5.67	5.11	4.16
L6740LTR	497-6298-2-ND	Hybrid Controller for AMD*	48-TQFP	6033.60/2,400		
L6741TR	497-6299-1-ND	High Current MOSFET Driver*	8-SOIC	1.40	1.26	1.00
L6741TR	497-6299-2-ND	High Current MOSFET Driver*	8-SOIC	1287.50/2,500		
L6743BTR	497-8325-1-ND	High Current MOSFET Driver*	8-VFDFPN	1.80	1.55	1.27
L6743BTR	497-8325-2-ND	High Current MOSFET Driver*	8-VFDFPN	2780.00/4,000		
L6743DTR	497-8496-1-ND	High Current MOSFET Driver*	8-SOIC	1.80	1.55	1.27
L6743DTR	497-8496-2-ND	High Current MOSFET Driver*	8-SOIC	1737.50/2,500		
L6743QTR	497-6300-1-ND	High Current MOSFET Driver*	10-DFN	1.51	1.35	1.08
L6743QTR	497-6300-2-ND	High Current MOSFET Driver*	10-DFN	2224.00/4,000		
L6743TR	497-6301-1-ND	High Current MOSFET Driver*	8-SOIC	.77	.70	.55
L6743TR	497-6301-2-ND	High Current MOSFET Driver*	8-SOIC	737.50/2,500		
L6756DTR	497-8326-1-ND	2/3/4 Phase Buck Controller*	40-VFQFPN	6.14	5.53	4.51
L6756DTR	497-8326-2-ND	2/3/4 Phase Buck Controller*	40-VFQFPN	8172.00/3,000		
L6788ATR	497-8520-1-ND	3-Phase Controller with Embedded Drivers*	40-VPQFN	3.47	3.12	2.55
L6788ATR	497-8520-2-ND	3-Phase Controller with Embedded Drivers*	40-VPQFN	4608.00/3,000		
L6902D013TR	497-5330-1-ND	Switching Reg. with Adj. Current Limit*	8-SOIC	4.41	3.97	3.24
L6902D013TR	497-5330-2-ND	Switching Reg. with Adj. Current Limit*	8-SOIC	4887.50/2,500		
L6910TR	497-3656-1-ND	Adjustable Step Down Controller*	16-SOIC	3.47	3.12	2.55
L6910TR	497-3656-2-ND	Adjustable Step Down Controller*	16-SOIC	3840.00/2,500		
L6910ATR	497-5293-1-ND	Adjustable Step-Down Controller*	16-TSSOP	4.17	3.69	2.86
L6910ATR	497-5293-2-ND	Adjustable Step-Down Controller*	16-TSSOP	4157.50/2,500		
L6910GTR	497-6111-1-ND	Adjustable Step-Down Controller*	16-SOIC	3.09	2.78	2.27
L6910GTR	497-6111-2-ND	Adjustable Step-Down Controller*	16-SOIC	3422.50/2,500		
L6917BDTR	497-5883-1-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	7.25	6.42	4.97
L6917BDTR	497-5883-2-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	2443.00/1,000		
L6920DBTR	497-5241-1-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	3.01	2.59	2.11
L6920DBTR	497-5241-2-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	4648.00/4,000		
L6920DCTR	497-6106-1-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	3.01	2.59	2.11
L6920DCTR	497-6106-2-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	4648.00/4,000		
L6920DTR	497-3368-1-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	3.31	2.84	2.32
L6920DTR	497-3368-2-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	5104.00/4,000		
L6924D013TR	497-5100-1-ND	Battery Charger System*	16-VFQFPN	2.94	2.52	2.06
L6924D013TR	497-5100-2-ND	Battery Charger System*	16-VFQFPN	4536.00/4,000		
L6924UTR	497-8278-1-ND	Battery Charger System*	16-VFQFPN	2.50	2.15	1.75
L6924UTR	497-8278-2-ND	Battery Charger System*	16-VFQFPN	3856.00/4,000		
L6925D013TR	497-3369-1-ND	High Eff. Mono Sync. Step-Down Reg.	8-MSOP	2.60	1.69	1.30
L6926013TR	497-4595-1-ND	Regulator Sync. Step-Down*	8-MSOP	3.23	2.78	2.27
L6926013TR	497-4595-2-ND	Regulator Sync. Step-Down*	8-MSOP	4988.00/4,000		
L6926Q1TR	497-5101-1-ND	High Eff. Mono Sync. Step-Down Reg.*	8-VFQFPN	3.38	2.90	2.37
L6926Q1TR	497-5101-2-ND	High Eff. Mono Sync. Step-Down Reg.*	8-VFQFPN	5216.00/4,000		
L6928D013TR	497-4222-1-ND	High Eff. Mono Sync. Step-Down Reg.	8-MSOP	3.35	2.87	2.35
L6928D013TR	497-4222-2-ND	High Eff. Mono Sync. Step-Down Reg.	8-MSOP	5164.00/4,000		
L6928Q1TR	497-5180-1-ND	High Eff. Mono Sync. Step-Down Reg.*	8-VFQFPN	2.72	2.34	1.91
L6928Q1TR	497-5180-2-ND	High Eff. Mono Sync. Step-Down Reg.*	8-VFQFPN	4196.00/4,000		
L6932D1.2TR	497-5724-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3422.50/2,500		
L6932D1.5TR	497-5102-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3.45	2.97	2.42
L6932D2.5TR	497-5909-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3.68	3.24	2.75
L6932H1.2TR	497-7766-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3.09	2.78	2.27
L6932H1.2TR	497-7766-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3422.50/2,500		
L6933H1.2TR	497-6145-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	3.78	3.41	2.78
L6933H1.2TR	497-6145-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	4190.00/2,500		
L6935TR	497-6973-1-ND	High Perf. 3A ULDO Linear Regulator*	20-VFQFPN	3.47	3.12	2.55
L6935TR	497-6973-2-ND	High Perf. 3A ULDO Linear Regulator*	20-VFQFPN	6144.00/4,000		
L6997STR	497-4225-1-ND	Step-Down Controller	20-TSSOP	4.10	3.69	3.01
L6997STR	497-4225-2-ND	Step-Down Controller	20-TSSOP	4537.50/2,500		
L7805ABD2T-TR	497-1170-1-ND	5V, Precision 1.5A Regulator*	D2-PAK	.92	.80	.63
L7805ABD2T-TR	497-1170-2-ND	5V, Precision 1.5A Regulator*	D2-PAK	336.00/1,000		
L7805ABP	497-4226-5-ND	5V, Precision 1.5A Regulator*	TO-220FP	.89	.80	.63
L7805ABV	497-2947-5-ND	5V, Precision 1.5A Regulator*	TO-220	.76	.67	.52
L7805ACD2T-TR	497-7253-1-ND	5V, Precision 1.5A Regulator*	D2-PAK	.97	.84	.67

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L7805ACD2T-TR	497-7253-2-ND	5V, Precision 1.5A Regulator*	D2-PAK	354.00/1,000		
L7805ACP	497-7254-5-ND	5V, Precision 1.5A Regulator*	TO-220FP	.92	.81	.63
L7805ACV	497-1441-5-ND	5V, Precision 1.5A Regulator*	TO-220	.67	.59	.46
L7805CD2T-TR	497-1171-1-ND	5V, Precision 1.5A Regulator*	D2-PAK	.92	.80	.63
L7805CD2T-TR	497-1171-2-ND	5V, Precision 1.5A Regulator*	D2-PAK	336.00/1,000		
L7805CDT-TR	497-7255-1-ND	5V, Precision 1.5A Regulator*	D-PAK	.91	.79	.62
L7805CDT-TR	497-7255-2-ND	5V, Precision 1.5A Regulator*	D-PAK	747.50/2,500		
L7805CP	497-1442-5-ND	5V, Precision 1.5A Regulator*	TO-220FP	.92	.81	.63
L7805CT	497-1005-ND	5V, Precision 1.5A Regulator*	TO-3	3.38	3.02	2.48
L7805CV	497-1443-5-ND	5V, Precision 1.5A Regulator*	TO-220	.60	.51	.38
L7805T	497-7256-ND	5V, Precision 1.5A Regulator*	TO-3	3.82	3.42	2.80
L7806ABD2T-TR	497-1172-1-ND	6V, Precision 1.5A Regulator*	D2-PAK	1.00	.90	.72
L7806ABD2T-TR	497-1172-2-ND	6V, Precision 1.5A Regulator*	D2-PAK	395.00/1,000		
L7806ABV	497-1444-5-ND	6V, Precision 1.5A Regulator	TO-220	.70	.61	.47
L7806ACV	497-7257-5-ND	6V, Precision 1.5A Regulator*	TO-220	.73	.64	.50
L7806CD2T-TR	497-7258-1-ND	6V, Precision 1.5A Regulator*	D2-PAK	1.00	.90	.72
L7806CD2T-TR	497-7258-2-ND	6V, Precision 1.5A Regulator*	D2-PAK	395.00/1,000		
L7806CT	497-7259-ND	6V, Precision 1.5A Regulator*	TO-3	3.38	3.02	2.48
L7806CV	497-1445-5-ND	6V, Precision 1.5A Regulator	TO-220	.65	.55	.42
L7808ABD2T-TR	497-1173-1-ND	8V, Precision 1.5A Regulator	D2-PAK	1.00	.90	.72
L7808ABD2T-TR	497-1173-2-ND	8V, Precision 1.5A Regulator	D2-PAK	395.00/1,000		
L7808ABV	497-1446-5-ND	8V, Precision 1.5A Regulator*	TO-220	.72	.63	.49
L7808CD2T-TR	497-1174-1-ND	8V, Precision 1.5A Regulator*	D2-PAK	.96	.84	.66
L7808CD2T-TR	497-1174-2-ND	8V, Precision 1.5A Regulator*	D2-PAK	350.00/1,000		
L7808CP	497-7260-5-ND	8V, Precision 1.5A Regulator*	TO-220FP	.80	.70	.54
L7808CV	497-2949-5-ND	8V, Precision 1.5A Regulator*	TO-220	.70	.59	.45
L7809ABV	497-1447-5-ND	9V, Precision 1.5A Regulator*	TO-220	.92	.82	.65
L7809CD2T-TR	497-1176-1-ND	9V, Precision 1.5A Regulator*	D2-PAK	1.08	.97	.77
L7809CD2T-TR	497-1176-2-ND	9V, Precision 1.5A Regulator*	D2-PAK	426.00/1,000		
L7809CP	497-7261-5-ND	9V, Precision 1.5A Regulator*	TO-220FP	.67	.59	.46
L7809CV	497-1448-5-ND	9V, Precision 1.5A Regulator*	TO-220	.65	.55	.42
L7812ABD2T-TR	497-6037-1-ND	12V, Precision 1.5A Regulator*	D2-PAK	1.19	1.07	.85
L7812ABD2T-TR	497-6037-2-ND	12V, Precision 1.5A Regulator*	D2-PAK	470.00/1,000		
L7812ABV	497-1449-5-ND	12V, Precision 1.5A Regulator*	TO-220	.76	.67	.52
L7812ACD2T-TR	497-1177-1-ND	12V, Precision 1.5A Regulator*	D2-PAK	1.06	.92	.73
L7812ACD2T-TR	497-1177-2-ND	12V, Precision 1.5A Regulator*	D2-PAK	387.00/1,000		
L7812ACV	497-1450-5-ND	12V, Precision 1.5A Regulator*	TO-220	.72	.63	.49
L7812CD2T-TR	497-1178-1-ND	12V, Precision 1.5A Regulator*	D2-PAK	.96	.86	.69
L7812CD2T-TR	497-1178-2-ND	12V, Precision 1.5A Regulator*	D2-PAK	378.00/1,000		
L7812CP	497-1451-5-ND	12V, Precision 1.5A Regulator*	TO-220FP	.96	.85	.67
L7812CT	497-1006-ND	12V, Precision 1.5A Regulator*	TO-3	3.38	3.02	2.48
L7812CV	497-1452-5-ND	12V, Precision 1.5A Regulator*	TO-220	.65	.55	.42
L7815ABD2T-TR	497-7262-1-ND	15V, Precision 1.5A Regulator*	D2-PAK	1.00	.90	.72
L7815ABD2T-TR	497-7262-2-ND	15V, Precision 1.5A Regulator*	D2-PAK	395.00/1,000		
L7815ABV	497-8352-5-ND	15V, Precision 1.5A Regulator*	TO-220	.86	.76	.59
L7815ACD2T-TR	497-7263-1-ND	15V, Precision 1.5A Regulator*	D2-PAK	.96	.83	.66
L7815ACD2T-TR	497-7263-2-ND	15V, Precision 1.5A Regulator*	D2-PAK	349.00/1,000		
L7815ACV	497-1453-5-ND	15V, Precision 1.5A Regulator*	TO-220	.78	.68	.53
L7815CD2T-TR	497-1179-1-ND	15V, Precision 1.5A Regulator*	D2-PAK	1.02	.88	.70
L7815CD2T-TR	497-1179-2-ND	15V, Precision 1.5A Regulator*	D2-PAK	370.00/1,000		
L7815CP	497-8353-5-ND	15V, Precision 1.5A Regulator*	TO-220FP	.92	.81	.63
L7815CT	497-1007-ND	15V, Precision 1.5A Regulator*	TO-3	3.38	3.02	2.48
L7815CV	497-1454-5-ND	15V, Precision 1.5A Regulator*	TO-220	.65	.55	.42
L7818CT	497-7264-ND	18V, Precision 1.5A Regulator*	TO-3	3.38	3.02	2.48
L7818CV	497-1456-5-ND	18V, Precision 1.5A Regulator*	TO-220	.65	.55	.42
L7824ABD2T-TR	497-6866-1-ND	24V, Precision 1.5A Regulator*	D2-PAK	1.20	1.08	.86
L7824ABD2T-TR	497-6866-2-ND	24V, Precision 1.5A Regulator*	D2-PAK	473.00/1,000		
L7824ABV	497-8354-5-ND	24V, Precision 1.5A Regulator*	TO-220	.92	.82	.65
L7824ACV	497-1458-5-ND	24V, Precision 1.5A Regulator	TO-220	.73	.64	.50
L7824CD2T-TR	497-4775-1-ND	24V, Positive Voltage Regulator*	D2-PAK	1.01	.91	.72
L7824CD2T-TR	497-4775-2-ND	24V, Positive Voltage Regulator*	D2-PAK	398.00/1,000		
L7824CP	497-7265-5-ND	24V, Positive Volt. Regulator*	TO-220FP	.84	.74	.57
L7824CT	497-1008-ND	24V, Positive Voltage Regulator*	TO-3	3.38	3.02	2.48
L7824CV	497-1460-5-ND	24V, Positive Voltage Regulator*	TO-220	.65	.55	.42
L7885CV	497-7266-5-ND	8.5V, 1.5A Positive Voltage Regulator*	TO-220	.63	.56	.43
L7915ACV	497-1477-5-ND	-15V, Negative Voltage Regulator*	TO-220	.72	.63	.49
L7915CP	497-7295-5-ND	-15V, Negative Voltage Regulator*	TO-220FP	1.14	1.02	.80
L7915CV	497-1478-5-ND	-15V, Negative Voltage Regulator*	TO-220	.67	.56	.42
L78L05ABD13TR	497-1180-1-ND	5V, Positive Voltage Regulator*	8-SOIC	.55	.44	.33
L78L05ABD13TR	497-1180-2-ND	5V, Positive Voltage Regulator*	8-SOIC	387.50/2,500		
L78L05ABUTR	497-1181-1-ND	5V, Positive Voltage Regulator*	SOT-89	.81	.65	.49
L78L05ABUTR	497-1181-2-ND	5V, Positive Voltage Regulator*	SOT-89	570.00/2,500		
L78L05ABZ	497-1009-ND	5V, Positive Voltage Regulator*	TO-92	.63	.54	.40
L78L05ACD13TR	497-1182-1-ND	5V, Positive Voltage Regulator*	8-SOIC	.64	.51	.39
L78L05ACD13TR	497-1182-2-ND	5V, Positive Voltage Regulator*	8-SOIC	450.00/2,500		
L78L05ACUTR	497-1183-1-ND	5V, Positive Voltage Regulator*	SOT-89	.67	.54	.40
L78L05ACUTR	497-1183-2-ND	5V, Positive Voltage Regulator*	SOT-89	470.00/2,500		
L78L05ACZ	497-2952-5-ND	5V, Positive Voltage Regulator	TO-92	.50	.42	.32
L78L05ACZTR	497-1184-1-ND	5V, Positive Voltage Regulator*	TO-92	.72	.43	.29
L78L05CD13TR	497-7267-1-ND	5V, Positive Voltage Regulator*	8-SOIC	.64	.51	.39
L78L05CD13TR	497-7267-2-ND	5V, Positive Voltage Regulator*	8-SOIC	450.00/2,500		
L78L05CZ	497-7268-ND	5V, Positive Voltage Regulator*	TO-92	.45	.38	.29
L78L06ABUTR	497-7269-1-ND	6V, Positive Voltage Regulator*	SOT-89	.70	.60	.48
L78L06ABUTR	497-7269-2-ND	6V, Positive Voltage Regulator*	SOT-89	572.50/2,500		
L78L06ABZ	497-1010-ND	6V, Positive Voltage Regulator	TO-92	.57	.49	.37
L78L06ACD13TR	497-1185-1-ND	6V, Positive Voltage Regulator*	8-SOIC	.67	.54	.40
L78L06ACD13TR	497-1185-2-ND	6V, Positive Voltage Regulator*	8-SOIC	470.00/2,500		
L78L06ACUTR	497-7270-1-ND	6V, Positive Voltage Regulator*	SOT-89	.67	.54	.40
L78L06ACUTR	497-7270-2-ND	6V, Positive Voltage Regulator*	SOT-89	470.00/2,500		
L78L06ACZ	497-2953-5-ND	6V, Positive Voltage Regulator*	TO-92	.57	.49	.37
L78L06ACZ-TR	497-1186-1-ND	6V, Positive Voltage Regulator	TO-92	.57	.50	.39
L78L08ABD13TR	497-1187-1-ND	8V, Positive Voltage Regulator	8-SOIC	.67	.54	.40
L78L08ABD13TR	497-1187-2-ND	8V, Positive Voltage Regulator	8-SOIC	470.00/2,500		
L78L08ABUTR	497-1188-1-ND	8V, Positive Voltage Regulator*	SOT-89	.81	.65	.49
L78L08ABUTR	497-1188-2-ND	8V, Positive Voltage Regulator*	SOT-89	570.00/2,500		
L78L08ABZ-AP	497-10099-1-ND	8V, Positive Voltage Regulator* ***NEW!***	TO-92	.74	.64	.51
L78L08ABZ-AP	497-10099-3-ND	8V, Positive Voltage Regulator* ***NEW!***	TO-92	487.20/2,000		
L78L08ACUTR	497-7271-1-ND	8V, Positive Voltage Regulator*	SOT-89	.79	.68	.54
L78L08ACUTR	497-7271-2-ND	8V, Positive Voltage Regulator*	SOT-89	650.00/2,500		
L78L08ACZ	497-2954-5-ND	8V, Positive Voltage Regulator	TO-92	.55	.43	.30
L78L08ACZTR	497-1190-1-ND	8V, Positive Voltage Regulator	TO-92	.43	.25	.16
L78L09ABD13TR	497-7272-1-ND	9V, Positive Voltage Regulator*	8-SOIC	.67	.54	.40
L78L09ABD13TR	497-7272-2-ND	9V, Positive Voltage Regulator*	8-SOIC	470.00/2,500		
L78L09ABUTR	497-7273-1-ND	9V, Positive Voltage Regulator*	SOT-89	.80	.64	.48
L78L09ABUTR	497-7273-2-ND	9V, Positive Voltage Regulator*	SOT-89	562.50/2,500		
L78L09ABZ	497-7274-ND	9V, Positive Voltage Regulator*	TO-92	.50	.42	.32
L78L09ACD13TR	497-1191-1-ND	9V, Positive Voltage Regulator	8-SOIC	.58	.47	.35

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L78L09ACUTR	497-1192-1-ND	9V, Positive Voltage Regulator	SOT-89	.70	.57	.43
L78L09ACUTR	497-1192-2-ND	9V, Positive Voltage Regulator	SOT-89	495.00/2,500		
L78L09ACZ	497-1012-ND	9V, Positive Voltage Regulator*	TO-92	.43	.36	.27
L78L09CD13TR	497-1193-1-ND	9V, Positive Voltage Regulator	8-SOIC	.69	.56	.42
L78L09CD13TR	497-1193-2-ND	9V, Positive Voltage Regulator	8-SOIC	487.50/2,500		
L78L10ACUTR	497-7275-2-ND	10V, Positive Voltage Regulator*	SOT-89	685.00/2,500		
L78L12ABD-TR	497-7767-1-ND	12V, Positive Voltage Regulator*	8-SOIC	.92	.80	.63
L78L12ABD-TR	497-7767-2-ND	12V, Positive Voltage Regulator*	8-SOIC	762.50/2,500		
L78L12ABUTR	497-7768-1-ND	12V, Positive Voltage Regulator*	SOT-89	.92	.80	.63
L78L12ABUTR	497-7768-2-ND	12V, Positive Voltage Regulator*	SOT-89	762.50/2,500		
L78L12ABZ	497-7276-ND	12V, Positive Voltage Regulator*	TO-92	.57	.49	.37
L78L12ACD13TR	497-1194-1-ND	12V, Positive Voltage Regulator*	8-SOIC	.64	.51	.39
L78L12ACD13TR	497-1194-2-ND	12V, Positive Voltage Regulator*	8-SOIC	450.00/2,500		
L78L12ACUTR	497-1195-1-ND	12V, Positive Voltage Regulator*	SOT-89	.67	.54	.40
L78L12ACUTR	497-1195-2-ND	12V, Positive Voltage Regulator*	SOT-89	470.00/2,500		
L78L12ACZ	497-7275-1-ND	10V, Positive Voltage Regulator*	SOT-89	.83	.72	.57
L78L12ACZ	497-2955-5-ND	12V, Positive Voltage Regulator	TO-92	.55	.43	.30
L78L15ABUTR	497-7769-1-ND	15V, Positive Voltage Regulator*	SOT-89	1.02	.88	.70
L78L15ABUTR	497-7769-2-ND	15V, Positive Voltage Regulator*	SOT-89	837.50/2,500		
L78L15ACD13TR	497-7278-1-ND	15V, Positive Voltage Regulator*	8-SOIC	.67	.54	.40
L78L15ACD13TR	497-7278-2-ND	15V, Positive Voltage Regulator*	8-SOIC	470.00/2,500		
L78L15ACUTR	497-7279-1-ND	15V, Positive Voltage Regulator*	SOT-89	.70	.57	.43
L78L15ACUTR	497-7279-2-ND	15V, Positive Voltage Regulator*	SOT-89	495.00/2,500		
L78L15ACZ-TR	497-1197-1-ND	15V, Positive Voltage Regulator	TO-92	.58	.47	.35
L78L15ACZ-TR	497-1197-2-ND	15V, Positive Voltage Regulator	TO-92	326.00/2,000		
L78L15CD-TR	497-1198-1-ND	15V, Positive Voltage Regulator	8-SOIC	.67	.54	.40
L78L15CD-TR	497-1198-2-ND	15V, Positive Voltage Regulator	8-SOIC	470.00/2,500		
L78L18ACUTR	497-7280-1-ND	18V, Positive Voltage Regulator*	SOT-89	.74	.59	.45
L78L18ACUTR	497-7280-2-ND	18V, Positive Voltage Regulator*	SOT-89	520.00/2,500		
L78L18CD13TR	497-7281-1-ND	18V, Positive Voltage Regulator*	8-SOIC	.83	.72	.57
L78L18CD13TR	497-7281-2-ND	18V, Positive Voltage Regulator*	8-SOIC	685.00/2,500		
L78L24ACUTR	497-7282-1-ND	24V, Positive Voltage Regulator*	SOT-89	.79	.68	.54
L78L24ACUTR	497-7282-2-ND	24V, Positive Voltage Regulator*	SOT-89	650.00/2,500		
L78L24ACZ-AP	497-7283-1-ND	24V, Positive Voltage Regulator*	TO-92	.74	.64	.51
L78L24ACZ-AP	497-7283-3-ND	24V, Positive Voltage Regulator*	TO-92	487.20/2,000		
L78L24CD-TR	497-7284-1-ND	24V, Positive Voltage Regulator*	8-SOIC	.79	.68	.54
L78L24CD-TR	497-7284-2-ND	24V, Positive Voltage Regulator*	8-SOIC	650.00/2,500		
L78L33ABD-TR	497-7285-1-ND	3.3V, Positive Voltage Regulator*	8-SOIC	.81	.65	.49
L78L33ABD-TR	497-7285-2-ND	3.3V, Positive Voltage Regulator*	8-SOIC	570.00/2,500		
L78L33ABUTR	497-7286-1-ND	3.3V, Positive Voltage Regulator*	SOT-89	.75	.65	.51
L78L33ABUTR	497-7286-2-ND	3.3V, Positive Voltage Regulator*	SOT-89	617.50/2,500		
L78L33ABZ-AP	497-7287-1-ND	3.3V, Positive Voltage Regulator*	TO-92	.74	.64	.51
L78L33ABZ-AP	497-7287-3-ND	3.3V, Positive Voltage Regulator*	TO-92	487.20/2,000		
L78L33ACD13TR	497-1199-1-ND	3.3V, Positive Voltage Regulator*	8-SOIC	.81	.65	.49
L78L33ACD13TR	497-1199-2-ND	3.3V, Positive Voltage Regulator*	8-SOIC	570.00/2,500		
L78L33ACUTR	497-1200-1-ND	3.3V, Positive Voltage Regulator*	SOT-89	.74	.59	.45
L78L33ACUTR	497-1200-2-ND	3.3V, Positive Voltage Regulator	SOT-89	520.00/2,500		
L78L33ACZ	497-7288-ND	3.3V, Positive Voltage Regulator*	TO-92	.70	.59	.45
L78M05ABDT-TR	497-1201-1-ND	5V, Precision 500mA Regulator*	D-PAK	1.02	.88	.70
L78M05ABDT-TR	497-1201-2-ND	5V, Precision 500mA Regulator*	D-PAK	837.50/2,500		
L78M05ABV	497-1461-5-ND	5V, Precision 500mA Regulator	TO-220	.80	.70	.54
L78M05ACDT-TR	497-1202-1-ND	5V, Precision 500mA Regulator*	D-PAK	.92	.80	.63
L78M05ACDT-TR	497-1202-2-ND	5V, Precision 500mA Regulator*	D-PAK	762.50/2,500		
L78M05CDT-TR	497-1203-1-ND	5V, Positive Voltage Regulator*	D-PAK	.81	.65	.49
L78M05CDT-TR	497-1203-2-ND	5V, Positive Voltage Regulator*	D-PAK	570.00/2,500		
L78M05CP	497-7289-5-ND	5V, Positive Voltage Regulator*	TO-220FP	.88	.79	.62
L78M05CV	497-2957-5-ND	5V, Positive Voltage Regulator	TO-220	.72	.63	.49
L78M06ABDT-TR	497-7771-1-ND	6V, Precision 500mA Regulator*	D-PAK	1.76	1.58	1.25
L78M06ABDT-TR	497-7771-2-ND	6V, Precision 500mA Regulator*	D-PAK	1617.50/2,500		
L78M06CDT-TR	497-6443-1-ND	6V, 500mA Positive Voltage Regulator*	D-PAK	.81	.65	.49
L78M06CDT-TR	497-6443-2-ND	6V, 500mA Positive Voltage Regulator*	D-PAK	570.00/2,500		
L78M08ABDT-TR	497-1205-1-ND	8V, Precision 500mA Regulator*	D-PAK	1.02	.88	.70
L78M08ABDT-TR	497-1205-2-ND	8V, Precision 500mA Regulator*	D-PAK	837.50/2,500		
L78M08CDT-TR	497-1206-1-ND	8V, Precision 500mA Regulator*	D-PAK	.92	.80	.63
L78M08CDT-TR	497-1206-2-ND	8V, Precision 500mA Regulator*	D-PAK	762.50/2,500		
L78M08CV	497-1463-5-ND	8V, Precision 500mA Regulator	TO-220	.69	.58	.44
L78M09ACDT-TR	497-1207-1-ND	9V, Precision 500mA Regulator	D-PAK	.96	.86	.69
L78M09CDT-TR	497-1208-1-ND	9V, Precision 500mA Regulator*	D-PAK	.91	.79	.62
L78M09CDT-TR	497-1208-2-ND	9V, Precision 500mA Regulator*	D-PAK	747.50/2,500		
L78M09CV	497-7290-5-ND	9V, Precision 500mA Regulator*	TO-220	.69	.58	.44
L78M10ABDT-TR	497-6867-1-ND	10V, Precision 500mA Regulator*	D-PAK	.80	.64	.48
L78M10ABDT-TR	497-6867-2-ND	10V, Precision 500mA Regulator*	D-PAK	562.50/2,500		
L78M12ABDT-TR	497-1209-1-ND	12V, Precision 500mA Regulator*	D-PAK	.96	.83	.66
L78M12ABDT-TR	497-1209-2-ND	12V, Precision 500mA Regulator*	D-PAK	790.00/2,500		
L78M12ABV	497-8355-5-ND	12V, Precision 500mA Regulator*	TO-220	.76	.67	.52
L78M12ACDT-TR	497-1210-1-ND	12V, Precision 500mA Regulator*	D-PAK	.81	.70	.56
L78M12ACDT-TR	497-1210-2-ND	12V, Precision 500mA Regulator*	D-PAK	667.50/2,500		
L78M12CDT-TR	497-1211-1-ND	12V, Precision 500mA Regulator*	D-PAK	1.00	.87	.69
L78M12CDT-TR	497-1211-2-ND	12V, Precision 500mA Regulator*	D-PAK	822.50/2,500		
L78M12CV	497-1464-5-ND	12V, Precision 500mA Regulator	TO-220	.63	.56	.43
L78M15ABDT-TR	497-7772-1-ND	15V, Precision 500mA Regulator*	D-PAK	1.38	1.24	.99
L78M15ABDT-TR	497-7772-2-ND	15V, Precision 500mA Regulator*	D-PAK	1270.00/2,500		
L78M15ABV	497-1465-5-ND	15V, Precision 500mA Regulator	TO-220	.80	.70	.54
L78M15CDT-TR	497-1212-1-ND	15V, Precision 500mA Regulator*	D-PAK	.91	.79	.62
L78M15CDT-TR	497-1212-2-ND	15V, Precision 500mA Regulator*	D-PAK	747.50/2,500		
L78M15CV	497-2958-5-ND	15V, Precision 500mA Regulator	TO-220	.63	.56	.43
L78M24ABDT-TR	497-7773-1-ND	24V, Precision 500mA Regulator*	D-PAK	1.06	.92	.73
L78M24ABDT-TR	497-7773-2-ND	24V, Precision 500mA Regulator*	D-PAK	877.50/2,500		
L78M24ACDT-TR	497-7291-1-ND	24V, Precision 500mA Regulator*	D-PAK	.96	.83	.66
L78M24ACDT-TR	497-7291-2-ND	24V, Precision 500mA Regulator*	D-PAK	790.00/2,500		
L78M24CDT-TR	497-1213-1-ND	24V, Precision 500mA Regulator*	D-PAK	1.06	.92	.73
L78M24CDT-TR	497-1213-2-ND	24V, Precision 500mA Regulator*	D-PAK	877.50/2,500		
L78M24CV	497-1467-5-ND	24V, Precision 500mA Regulator*	TO-220	.67	.59	.46
L78S05CV	497-1468-5-ND	5V, Positive 2A Regulator*	TO-220	.76	.67	.52
L78S09CV	497-6038-5-ND	9V, Positive 2A Regulator*	TO-220	.97	.85	.66
L78S10CV	497-6039-5-ND	10V, Positive 2A Regulator*	TO-220	.73	.64	.50
L78S12CT	497-8356-ND	12V, Positive 2A Regulator*	TO-3	3.21	2.87	2.35
L78S12CV	497-1469-5-ND	12V, Positive 2A Regulator*	TO-220	.82	.73	.56
L78S15CV	497-6040-5-ND	15V, Positive 2A Regulator*	TO-220	.87	.77	.59
L78S18CV	497-6009-5-ND	18V, Positive 2A Regulator*	TO-220	.97	.85	.66
L78S24CV	497-1470-5-ND	24V, Positive 2A Regulator*	TO-220	.73	.64	.50
L7905ACD2T-TR	497-7292-1-ND	-5V, Negative 2% Regulator*	D2-PAK	1.36	1.22	.97
L7905ACD2T-TR	497-7292-2-ND	-5V, Negative 2% Regulator*	D2-PAK	536.00/1,000		
L7905ACV	497-1471-5-ND	-5V, Negative 2% Regulator*	TO-220	.68	.60	.46
L7905CD2T-TR	497-1214-1-ND	-5V, Negative Voltage Regulator*	D2-PAK	1.02	.88	.70
L7905CD2T-TR	497-1214-2-ND	-5V, Negative Voltage Regulator*	D2-PAK	370.00/1,000		
L7905CP	497-7293-5-ND	-5V, Negative Voltage Regulator*	TO-220FP	.88	.78	.60

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L7905CV	497-1472-5-ND	-5V, Negative Voltage Regulator*	TO-220	.65	.55	.42
L7912ACV	497-1475-5-ND	-12V, Negative 2% Regulator*	TO-220	.67	.59	.46
L7912CD2T-TR	497-1215-1-ND	-12V, Negative Voltage Regulator*	D2-PAK	1.06	.92	.73
L7912CD2T-TR	497-1215-2-ND	-12V, Negative Voltage Regulator*	D2-PAK	387.00/1,000		
L7912CP	497-7294-5-ND	-12V, Negative Voltage Regulator*	TO-220FP	.88	.79	.62
L7912CV	497-1476-5-ND	-12V, Negative Voltage Regulator*	TO-220	.65	.55	.42
L79L05ABD13TR	497-7296-1-ND	-5V, Negative Voltage Regulator*	8-SOIC	.75	.65	.51
L79L05ABD13TR	497-7296-2-ND	-5V, Negative Voltage Regulator*	8-SOIC	617.50/2,500		
L79L05ABUTR	497-1217-1-ND	-5V, Negative Voltage Regulator*	SOT-89	.73	.59	.44
L79L05ABUTR	497-1217-2-ND	-5V, Negative Voltage Regulator*	SOT-89	512.50/2,500		
L79L05ABZ-AP	497-7297-3-ND	-5V, Negative Voltage Regulator*	TO-92	409.20/2,000		
L79L05ACD13TR	497-1218-1-ND	-5V, Negative Voltage Regulator	8-SOIC	.64	.51	.39
L79L05ACD13TR	497-1218-2-ND	-5V, Negative Voltage Regulator	8-SOIC	450.00/2,500		
L79L05ACUTR	497-1219-1-ND	-5V, Negative Voltage Regulator*	SOT-89	.79	.69	.54
L79L05ACUTR	497-1219-2-ND	-5V, Negative Voltage Regulator*	SOT-89	652.50/2,500		
L79L05ACZ	497-2960-5-ND	-5V, Negative Voltage Regulator*	TO-92	.45	.38	.29
L79L05ACZ-TR	497-1220-1-ND	-5V, Negative Voltage Regulator*	TO-92	.42	.34	.26
L79L08ACD13TR	497-7298-1-ND	-8V, Negative Voltage Regulator*	8-SOIC	.81	.65	.49
L79L08ACD13TR	497-7298-2-ND	-8V, Negative Voltage Regulator*	8-SOIC	570.00/2,500		
L79L08ACZ-AP	497-7299-1-ND	-8V, Negative Voltage Regulator*	TO-92	.74	.64	.51
L79L08ACZ-AP	497-7299-3-ND	-8V, Negative Voltage Regulator*	TO-92	487.20/2,000		
L79L12ACD13TR	497-7300-1-ND	-12V, Negative Voltage Regulator*	8-SOIC	.88	.76	.60
L79L12ACD13TR	497-7300-2-ND	-12V, Negative Voltage Regulator*	8-SOIC	725.00/2,500		
L79L12ACUTR	497-7301-1-ND	-12V, Negative Voltage Regulator*	SOT-89	.70	.60	.48
L79L12ACUTR	497-7301-2-ND	-12V, Negative Voltage Regulator*	SOT-89	572.50/2,500		
L79L12ACZ-TR	497-7302-1-ND	-12V, Negative Voltage Regulator*	TO-92	.48	.38	.29
L79L12ACZ-TR	497-7302-2-ND	-12V, Negative Voltage Regulator*	TO-92	342.00/2,000		
L79L15ACD13TR	497-7303-1-ND	-15V, Negative Voltage Regulator*	8-SOIC	.61	.49	.37
L79L15ACD13TR	497-7303-2-ND	-15V, Negative Voltage Regulator*	8-SOIC	430.00/2,500		
L79L15ACZ-TR	497-7304-1-ND	-15V, Negative Voltage Regulator*	TO-92	.55	.44	.33
L79L15ACZ-TR	497-7304-2-ND	-15V, Negative Voltage Regulator*	TO-92	310.00/2,000		
LD1084V	497-3413-5-ND	Adj., 5A LDO Positive Voltage Reg.	TO-220	2.86	2.59	2.08
LD1084V25	497-3415-5-ND	2.5V, 5A LDO Positive Voltage Reg.	TO-220	2.23	2.02	1.62
LD1085CDT-R	497-3418-1-ND	Adj 3A LDO Positive Voltage Reg.	D-PAK	1.90	1.64	1.34
LD1085CDT-R	497-3418-2-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	1835.00/2,500		
LD1085D2M-R	497-3419-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	1.78	1.53	1.25
LD1085D2M-R	497-3419-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	737.00/1,000		
LD1085D2M18R	497-3421-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.78	1.53	1.25
LD1085D2M18R	497-3421-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	737.00/1,000		
LD1085D2M25R	497-3422-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.78	1.53	1.25
LD1085D2M33R	497-3423-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.76	1.52	1.24
LD1085D2M33R	497-3423-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	731.00/1,000		
LD1085D2T-R	497-3424-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	1.78	1.53	1.25
LD1085D2T-R	497-3424-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	737.00/1,000		
LD1085D2T18R	497-3427-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK	1.86	1.60	1.30
LD1085D2T33R	497-1222-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	1.84	1.65	1.31
LD1085D2T33R	497-1222-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	725.00/1,000		
LD1085DT18R	497-3430-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1.69	1.45	1.18
LD1085DT18R	497-3430-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1740.00/2,500		
LD1085P	497-7305-5-ND	Adj., 3A LDO Positive Voltage Reg.*	TO-220FP	2.12	1.92	1.54
LD1085V	497-1482-5-ND	Adj., 3A LDO Positive Voltage Reg.	TO-220	1.87	1.70	1.36
LD1085V50	497-3436-5-ND	5V, 3A LDO Positive Voltage Reg.	TO-220	1.63	1.47	1.19
LD1086D2M33TR	497-1223-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK/A	1.40	1.26	1.00
LD1086D2MTR	497-3439-1-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK/A	1.47	1.32	1.05
LD1086D2MTR	497-3439-2-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK/A	581.00/1,000		
LD1086D2T15R	497-3441-1-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.76	1.58	1.25
LD1086D2T15R	497-3441-2-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	693.00/1,000		
LD1086D2T18TR	497-3442-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.76	1.58	1.25
LD1086D2T18TR	497-3442-2-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	693.00/1,000		
LD1086D2T25TR	497-3443-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.76	1.58	1.25
LD1086D2T25TR	497-3443-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	693.00/1,000		
LD1086D2T33TR	497-1224-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.73	1.55	1.23
LD1086D2T33TR	497-1224-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	681.00/1,000		
LD1086D2T50TR	497-1225-1-ND	5V, 1.5A LDO Positive Voltage Reg.*	D2-PAK	1.76	1.58	1.25
LD1086D2T50TR	497-1225-2-ND	5V, 1.5A LDO Positive Voltage Reg.*	D2-PAK	693.00/1,000		
LD1086D2TTR	497-3566-1-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	1.76	1.58	1.25
LD1086D2TTR	497-3566-2-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	693.00/1,000		
LD1086DT15R	497-7774-1-ND	15V, 1.5A LDO Positive Voltage Reg.*	D-PAK	1.68	1.50	1.20
LD1086DT15R	497-7774-2-ND	15V, 1.5A LDO Positive Voltage Reg.*	D-PAK	1542.50/2,500		
LD1086DT18TR	497-3444-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.*	D-PAK	1.73	1.55	1.23
LD1086DT18TR	497-3444-2-ND	1.8V, 1.5A LDO Positive Voltage Reg.*	D-PAK	1590.00/2,500		
LD1086DT25TR	497-3445-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.73	1.55	1.23
LD1086DT25TR	497-3445-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1590.00/2,500		
LD1086DT33TR	497-3446-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.73	1.55	1.23
LD1086DT33TR	497-3446-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1590.00/2,500		
LD1086DT50TR	497-4239-1-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.73	1.55	1.23
LD1086DT50TR	497-4239-2-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1590.00/2,500		
LD1086DTTR	497-6222-1-ND	Adj., 1.5A LDO Positive Voltage Reg.*	D-PAK	2.17	1.86	1.52
LD1086DTTR	497-6222-2-ND	Adj., 1.5A LDO Positive Voltage Reg.*	D-PAK	1690.00/2,500		
LD1086DTTRY	497-10192-1-ND	Adj., 1.5A LDO Pos. Volt. Reg.* ***NEW!***	D-PAK	2.02	1.74	1.42
LD1086DTTRY	497-10192-2-ND	Adj., 1.5A LDO Pos. Volt. Reg.* ***NEW!***	D-PAK	1950.00/2,500		
LD1086V	497-3447-5-ND	Adj., 1.5A LDO Positive Voltage Reg.	TO-220	1.59	1.41	1.12
LD1086V18	497-3449-5-ND	1.8V, 1.5A LDO Positive Voltage Reg.	TO-220	1.59	1.41	1.12
LD1086V33	497-3450-5-ND	3.3V, 1.5A LDO Positive Voltage Reg.	TO-220	1.40	1.24	.98
LD1086VY	497-10193-5-ND	Adj., 1.5A LDO Pos. Volt. Reg.* ***NEW!***	TO-220	1.63	1.47	1.19
LD1117ADT-TR	497-3452-1-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	1.06	.92	.73
LD1117ADT-TR	497-3452-2-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	877.50/2,500		
LD1117ADT12TR	497-6011-1-ND	1.2V, 1A LDO Positive Voltage Reg.*	D-PAK	.92	.80	.63
LD1117ADT12TR	497-6011-2-ND	1.2V, 1A LDO Positive Voltage Reg.*	D-PAK	762.50/2,500		
LD1117ADT18TR	497-3453-1-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	1.06	.92	.73
LD1117ADT18TR	497-3453-2-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	877.50/2,500		
LD1117ADT33TR	497-3455-1-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	1.06	.92	.73
LD1117ADT33TR	497-3455-2-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	877.50/2,500		
LD1117AS12TR	497-6445-1-ND	1.2V, 1A LDO Voltage Regulator*	SOT-223	.97	.84	.67
LD1117AS12TR	497-6445-2-ND	1.2V, 1A LDO Voltage Regulator*	SOT-223	800.00/2,500		
LD1117AS18TR	497-1226-1-ND	1.8V, 1A LDO Positive Voltage Reg.	SOT-223	.97	.84	.67
LD1117AS18TR	497-1226-2-ND	1.8V, 1A LDO Positive Voltage Reg.	SOT-223	800.00/2,500		
LD1117AS33TR	497-1228-1-ND	3.3V, 1A LDO Positive Voltage Reg..	SOT-223	.97	.84	.67
LD1117AS33TR	497-1228-2-ND	3.3V, 1A LDO Positive Voltage Reg.	SOT-223	800.00/2,500		
LD1117ASTR	497-1229-1-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	.91	.79	.62
LD1117ASTR	497-1229-2-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	747.50/2,500		
LD1117AV	497-3456-5-ND	Adj., 1A LDO Positive Voltage Reg.	TO-220	.80	.71	.56
LD1117AV18	497-1483-5-ND	1.8V, 1A LDO Positive Voltage Reg.	TO-220	1.39	1.26	1.01
LD1117AV25	497-1484-5-ND	2.5V, 1A LDO Positive Voltage Reg.	TO-220	1.39	1.26	1.01
LD1117AV33	497-1485-5-ND	3.3V, 1A LDO Positive Voltage Reg.	TO-220	.97	.85	.66
LD1117D33CTR	497-1230-1-ND	3.3V, 800mA LDO Positive Volt. Reg.	8-SOIC	.75	.65	.51
LD1117D33CTR	497-1230-2-ND	3.3V, 800mA LDO Positive Volt. Reg.	8-SOIC	617.50/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD1117D33TR	497-7306-1-ND	3.3V, 800mA LDO Positive Volt. Reg.*	8-SOIC	.75	.65	.51
LD1117D33TR	497-7306-2-ND	3.3V, 800mA LDO Positive Volt. Reg.*	8-SOIC	617.50/2,500		
LD1117DT12TR	497-1231-1-ND	1.2V, 800mA LDO Positive Volt. Reg.	D-PAK	.86	.75	.59
LD1117DT12TR	497-1231-2-ND	1.2V, 800mA LDO Positive Volt. Reg.	D-PAK	710.00/2,500		
LD1117DT18CTR	497-6446-1-ND	1.8V, 800mA LDO Positive Volt. Reg.*	D-PAK	.75	.65	.51
LD1117DT18CTR	497-6446-2-ND	1.8V, 800mA LDO Positive Volt. Reg.*	D-PAK	617.50/2,500		
LD1117DT18TR	497-1232-1-ND	1.8V, 800mA LDO Positive Volt. Reg.	D-PAK	.79	.68	.54
LD1117DT18TR	497-1232-2-ND	1.8V, 800mA LDO Positive Volt. Reg.	D-PAK	650.00/2,500		
LD1117DT25CTR	497-1233-1-ND	2.5V, 800mA LDO Positive Volt. Reg.	D-PAK	.75	.65	.51
LD1117DT25CTR	497-1233-2-ND	2.5V, 800mA LDO Positive Volt. Reg.	D-PAK	617.50/2,500		
LD1117DT25TR	497-7307-1-ND	2.5V, 800mA LDO Positive Volt. Reg.*	D-PAK	.75	.65	.51
LD1117DT25TR	497-7307-2-ND	2.5V, 800mA LDO Positive Volt. Reg.*	D-PAK	617.50/2,500		
LD1117DT28TR	497-1234-1-ND	2.85V, 800mA LDO Positive Volt Reg.	D-PAK	1.49	1.28	1.04
LD1117DT28TR	497-1234-2-ND	2.85V, 800mA LDO Positive Volt. Reg.	D-PAK	1535.00/2,500		
LD1117DT33CTR	497-1235-1-ND	3.3V, 800mA LDO Positive Volt. Reg.*	D-PAK	.75	.65	.51
LD1117DT33CTR	497-1235-2-ND	3.3V, 800mA LDO Positive Volt. Reg.*	D-PAK	617.50/2,500		
LD1117DT33TR	497-1236-1-ND	3.3V, 800mA LDO Positive Volt. Reg.	D-PAK	.75	.65	.51
LD1117DT33TR	497-1236-2-ND	3.3V, 800mA LDO Positive Volt. Reg.	D-PAK	617.50/2,500		
LD1117DT50CTR	497-1237-1-ND	5V, 800mA LDO Positive Volt. Reg.	D-PAK	.75	.65	.51
LD1117DT50CTR	497-1237-2-ND	5V, 800mA LDO Positive Volt. Reg.	D-PAK	617.50/2,500		
LD1117DT50TR	497-1238-1-ND	5V, 800mA LDO Positive Volt. Reg.	D-PAK	.75	.65	.51
LD1117DT50TR	497-1238-2-ND	5V, 800mA LDO Positive Volt. Reg.	D-PAK	617.50/2,500		
LD1117DTC-R	497-7775-1-ND	Adj., 800mA LDO Positive Volt. Reg.*	D-PAK	1.91	1.64	1.34
LD1117DTC-R	497-7775-2-ND	Adj., 800mA LDO Positive Volt. Reg.*	D-PAK	1842.50/2,500		
LD1117DTTR	497-1239-1-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	.71	.62	.49
LD1117DTTR	497-1239-2-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	587.50/2,500		
LD1117S12CTR	497-6974-1-ND	1.2V, 800mA LDO Positive Volt. Reg.*	SOT-223	.79	.68	.54
LD1117S12CTR	497-6974-2-ND	1.2V, 800mA LDO Positive Volt. Reg.*	SOT-223	650.00/2,500		
LD1117S12TR	497-4240-1-ND	1.2V, 800mA LDO Positive Volt. Reg.	SOT-223	1.06	.92	.73
LD1117S12TR	497-4240-2-ND	1.2V, 800mA LDO Positive Volt. Reg.	SOT-223	877.50/2,500		
LD1117S18CTR	497-6868-1-ND	1.8V, 800mA LDO Positive Volt. Reg.*	SOT-223	.91	.79	.62
LD1117S18CTR	497-6868-2-ND	1.8V, 800mA LDO Positive Volt. Reg.*	SOT-223	747.50/2,500		
LD1117S18TR	497-7308-1-ND	1.8V, 800mA LDO Positive Volt. Reg.*	SOT-223	.75	.65	.51
LD1117S18TR	497-7308-2-ND	1.8V, 800mA LDO Positive Volt. Reg.*	SOT-223	617.50/2,500		
LD1117S25CTR	497-1240-1-ND	2.5V, 800mA LDO Positive Volt. Reg.	SOT-223	.75	.65	.51
LD1117S25CTR	497-1240-2-ND	2.5V, 800mA LDO Positive Volt. Reg.	SOT-223	617.50/2,500		
LD1117S25TR	497-7309-1-ND	2.5V, 800mA LDO Positive Volt. Reg.*	SOT-223	.75	.65	.51
LD1117S25TR	497-7309-2-ND	2.5V, 800mA LDO Positive Volt. Reg.*	SOT-223	617.50/2,500		
LD1117S33CTR	497-1241-1-ND	3.3V, 800mA LDO Positive Volt. Reg.	SOT-223	.74	.59	.45
LD1117S33CTR	497-1241-2-ND	3.3V, 800mA LDO Positive Volt. Reg.	SOT-223	520.00/2,500		
LD1117S33TR	497-1242-1-ND	3.3V, 800mA LDO Positive Volt. Reg.	SOT-223	.81	.65	.49
LD1117S33TR	497-1242-2-ND	3.3V, 800mA LDO Positive Volt. Reg.	SOT-223	570.00/2,500		
LD1117S50CTR	497-1243-1-ND	5V, 800mA LDO Positive Volt. Reg.	SOT-223	.71	.62	.49
LD1117S50CTR	497-1243-2-ND	5V, 800mA LDO Positive Volt. Reg.	SOT-223	587.50/2,500		
LD1117S50TR	497-6447-1-ND	5V, 800mA LDO Positive Volt. Reg.*	SOT-223	.81	.65	.49
LD1117S50TR	497-6447-2-ND	5V, 800mA LDO Positive Voltage Reg.*	SOT-223	570.00/2,500		
LD1117SC-R	497-4241-1-ND	Adj., 800mA LDO Positive Voltage Reg.	SOT-223	.91	.79	.62
LD1117SC-R	497-4241-2-ND	Adj., 800mA LDO Positive Volt. Reg.*	SOT-223	747.50/2,500		
LD1117STR	497-1244-1-ND	1.25V to 15V, LDO Pos. Voltage Reg.	SOT-223	.71	.62	.49
LD1117STR	497-1244-2-ND	1.25V to 15V, LDO Pos. Voltage Reg.	SOT-223	587.50/2,500		
LD1117V	497-7310-5-ND	Adj., 800mA LDO Positive Volt Reg.*	TO-220	.68	.60	.46
LD1117V18	497-3457-5-ND	1.8V, 800mA LDO Positive Volt. Reg.	TO-220	.68	.60	.46
LD1117V25	497-3458-5-ND	2.5V, 800mA LDO Positive Volt. Reg.	TO-220	1.25	1.11	.88
LD1117V25C	497-3459-5-ND	2.5V, 800mA LDO Positive Volt. Reg.	TO-220	1.14	1.01	.80
LD1117V33	497-1491-5-ND	3.3V, 800mA LDO Positive Volt. Reg.*	TO-220	.68	.60	.46
LD1117V33C	497-1492-5-ND	3.3V, 800mA LDO Positive Volt. Reg.*	TO-220	.73	.64	.50
LD1117V50	497-7311-5-ND	5V, 800mA LDO Positive Voltage Reg.*	TO-220	.65	.57	.44
LD1580P2T-R	497-5842-1-ND	Adj., 7A LDO Positive Voltage Reg.*	P2-PAK	2.63	2.25	1.84
LD1580P2T-R	497-5842-2-ND	Adj., 7A LDO Positive Voltage Reg.*	P2-PAK	1088.00/1,000		
LD1585CD2T18R	497-3465-1-ND	1.8V, 5A LDO Positive Voltage Reg.	D2-PAK	1.86	1.60	1.30
LD29080DT15R	497-7776-1-ND	1.5V, 800mA VLDO Voltage Reg.*	D-PAK	1.56	1.40	1.11
LD29080DT15R	497-7776-2-ND	1.5V, 800mA VLDO Voltage Reg.*	D-PAK	1437.50/2,500		
LD29080DT18R	497-6869-1-ND	1.8V, 800mA VLDO Regulator*	D-PAK	2.06	1.77	1.45
LD29080DT18R	497-6869-2-ND	1.8V, 800mA VLDO Regulator*	D-PAK	1985.00/2,500		
LD29080DT25R	497-4242-1-ND	2.5V, 800mA VLDO Regulator	D-PAK	1.56	1.40	1.11
LD29080DT25R	497-4242-2-ND	2.5V, 800mA VLDO Regulator	D-PAK	1437.50/2,500		
LD29080DT33R	497-4243-1-ND	3.3V, 800mA VLDO Regulator	D-PAK	1.56	1.40	1.11
LD29080DT33R	497-4243-2-ND	3.3V, 800mA VLDO Regulator	D-PAK	1437.50/2,500		
LD29080DT50R	497-7777-1-ND	5V, 800mA VLDO Voltage Regulator*	D-PAK	1.56	1.40	1.11
LD29080DT50R	497-7777-2-ND	5V, 800mA VLDO Voltage Regulator*	D-PAK	1437.50/2,500		
LD29080DT90R	497-4244-1-ND	9V, 800mA VLDO Regulator	D-PAK	1.80	1.55	1.27
LD29080PT15R	497-4245-1-ND	1.5V, 800mA VLDO Regulator	P-PAK	1.36	1.22	.97
LD29080PT15R	497-4245-2-ND	1.5V, 800mA VLDO Regulator	P-PAK	1437.50/2,500		
LD29080PT18R	497-6870-1-ND	1.8V, 800mA VLDO Regulator*	P-PAK	2.06	1.77	1.45
LD29080PT18R	497-6870-2-ND	1.8V, 800mA VLDO Regulator*	P-PAK	1985.00/2,500		
LD29080PT33R	497-4246-1-ND	3.3V, 800mA VLDO Regulator	P-PAK	1.56	1.40	1.11
LD29080PT33R	497-4246-2-ND	3.3V, 800mA VLDO Regulator	P-PAK	1437.50/2,500		
LD29080PT50R	497-7778-1-ND	5V, 800mA VLDO Voltage Regulator*	P-PAK	1.56	1.40	1.11
LD29080PT50R	497-7778-2-ND	5V, 800mA VLDO Voltage Regulator*	P-PAK	1437.50/2,500		
LD29150DT18R	497-1494-1-ND	1.8V, 1.5A VLDO Voltage Regulator	D-PAK	1.84	1.65	1.31
LD29150DT18R	497-1494-2-ND	1.8V, 1.5A VLDO Voltage Regulator	D-PAK	1690.00/2,500		
LD29150DT25R	497-1495-1-ND	2.5V, 1.5A VLDO Voltage Regulator	D-PAK	1.84	1.65	1.31
LD29150DT25R	497-1495-2-ND	2.5V, 1.5A VLDO Voltage Regulator	D-PAK	1690.00/2,500		
LD29150DT33R	497-1496-1-ND	3.3V, 1.5A VLDO Voltage Regulator	D-PAK	1.84	1.65	1.31
LD29150DT33R	497-1496-2-ND	3.3V, 1.5A VLDO Voltage Regulator	D-PAK	1690.00/2,500		
LD29150DT50R	497-3468-1-ND	5V, 1.5A VLDO Voltage Regulator	D-PAK	1.84	1.65	1.31
LD29150DT50R	497-3468-2-ND	5V, 1.5A VLDO Voltage Regulator	D-PAK	1690.00/2,500		
LD29150P2T33R	497-7779-1-ND	3.3V, 1.5A VLDO Voltage Regulator*	P2-PAK	2.03	1.74	1.43
LD29150P2T33R	497-7779-2-ND	3.3V, 1.5A VLDO Voltage Regulator*	P2-PAK	841.00/1,000		
LD29150PT50R	497-4249-1-ND	5V, 1.5A VLDO Voltage Regulator	P-PAK	1.84	1.65	1.31
LD29150PT50R	497-4249-2-ND	5V, 1.5A VLDO Voltage Regulator	P-PAK	1690.00/2,500		
LD29150PTR	497-4250-1-ND	Adj., 1.5A VLDO Voltage Regulator	P-PAK	1.84	1.65	1.31
LD29150PTR	497-4250-2-ND	Adj., 1.5A VLDO Voltage Regulator	P-PAK	1690.00/2,500		
LD29150V25	497-3470-5-ND	2.5V, 1.5A VLDO Voltage Regulator	TO-220	1.39	1.26	1.01
LD29300D2M15R	497-1499-1-ND	1.5V, 3A VLDO Voltage Regulator	D2-PAK/A	2.66	2.28	1.86
LD29300D2M18R	497-1500-1-ND	1.8V, 3A VLDO Voltage Regulator	D2-PAK/A	1.46	1.25	1.02
LD29300D2M25R	497-1501-1-ND	2.5V, 3A VLDO Voltage Regulator	D2-PAK/A	1.46	1.25	1.02
LD29300D2T15R	497-1503-1-ND	1.5V, 3A VLDO Voltage Regulator	D2-PAK	2.66	2.28	1.86
LD29300D2T18R	497-1504-1-ND	1.8V, 3A VLDO Voltage Regulator	D2-PAK	1.88	1.61	1.32
LD29300D2T18R	497-1504-2-ND	1.8V, 3A VLDO Voltage Regulator	D2-PAK	777.00/1,000		
LD29300D2T25R	497-1505-1-ND	2.5V, 3A VLDO Voltage Regulator	D2-PAK	2.43	2.09	1.70
LD29300P2M18R	497-3473-1-ND	1.8V, 3A VLDO Voltage Regulator*	P2-PAK/A	1.91	1.69	1.43
LD29300P2M33R	497-3475-1-ND	3.3V, 3A VLDO Voltage Regulator*	P2-PAK/A	1.88	1.61	1.32
LD29300P2M33R	497-3475-2-ND	3.3V, 3A VLDO Voltage Regulator*	P2-PAK/A	777.00/1,000		
LD29300P2MTR	497-7780-1-ND	Adj., 3A VLDO Voltage Regulator*	P2-PAK/A	1.88	1.61	1.32
LD29300P2MTR	497-7780-2-ND	Adj., 3A VLDO Voltage Regulator*	P2-PAK/A	777.00/1,000		
LD29300V15	497-1507-5-ND	1.5V, 3A VLDO Voltage Regulator	TO-220	2.15	1.95	1.57

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD2979M30TR	497-7781-1-ND	3V, VLDO Voltage Regulator*	SOT-23-5	.97	.84	.67
LD2979M30TR	497-7781-2-ND	3V, VLDO Voltage Regulator*	SOT-23-5	960.00/3,000		
LD2979M33TR	497-1512-1-ND	3.3V, VLDO Voltage Regulator	SOT-23-5	1.00	.87	.69
LD2979M33TR	497-1512-2-ND	3.3V, VLDO Voltage Regulator	SOT-23-5	987.00/3,000		
LD2979M38TR	497-7782-1-ND	3.8V, VLDO Voltage Regulator*	SOT-23-5	.86	.75	.59
LD2979M38TR	497-7782-2-ND	3.8V, VLDO Voltage Regulator*	SOT-23-5	849.00/3,000		
LD2979M50TR	497-1513-1-ND	5V, VLDO Voltage Regulator	SOT-23-5	.92	.80	.63
LD2979M50TR	497-1513-2-ND	5V, VLDO Voltage Regulator	SOT-23-5	915.00/3,000		
LD2980ABM25TR	497-1515-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5	1.43	1.23	1.00
LD2980ABM25TR	497-1515-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5	1950.00/3,000		
LD2980ABM30TR	497-1516-1-ND	3V, LDO Voltage Regulator	SOT-23-5	1.01	.91	.72
LD2980ABM30TR	497-1516-2-ND	3V, LDO Voltage Regulator	SOT-23-5	1116.00/3,000		
LD2980ABM33TR	497-1517-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5	1.02	.88	.70
LD2980ABM33TR	497-1517-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5	1005.00/3,000		
LD2980ABM50TR	497-1518-1-ND	5V, LDO Voltage Regulator	SOT-23-5	1.06	.92	.73
LD2980ABM50TR	497-1518-2-ND	5V, LDO Voltage Regulator	SOT-23-5	1053.00/3,000		
LD2980CM18TR	497-3477-1-ND	1.8V, 50mA LDO Voltage Regulator	SOT-23-5	1.56	1.40	1.11
LD2980CM18TR	497-3477-2-ND	1.8V, 50mA LDO Voltage Regulator	SOT-23-5	1722.00/3,000		
LD2980CM33TR	497-3479-1-ND	3.3V, 50mA LDO Voltage Regulator	SOT-23-5	.91	.79	.62
LD2980CM33TR	497-3479-2-ND	3.3V, 50mA LDO Voltage Regulator	SOT-23-5	897.00/3,000		
LD2980CM50TR	497-7783-1-ND	5V, 50mA LDO Voltage Regulator*	SOT-23-5	.91	.79	.62
LD2980CM50TR	497-7783-2-ND	5V, 50mA LDO Voltage Regulator*	SOT-23-5	897.00/3,000		
LD2981ABM25TR	497-1520-1-ND	2.5V, 100mA LDO Voltage Regulator	SOT-23-5	1.75	1.50	1.23
LD2981ABM25TR	497-1520-2-ND	2.5V, 100mA LDO Voltage Regulator	SOT-23-5	2025.00/3,000		
LD2981ABM30TR	497-7784-1-ND	3V, 100mA LDO Voltage Regulator*	SOT-23-5	1.68	1.50	1.20
LD2981ABM30TR	497-7784-2-ND	3V, 100mA LDO Voltage Regulator*	SOT-23-5	1851.00/3,000		
LD2981ABM33TR	497-1521-1-ND	3.3V, 100mA LDO Voltage Regulator	SOT-23-5	1.15	1.03	.82
LD2981ABM33TR	497-1521-2-ND	3.3V, 100mA LDO Voltage Regulator	SOT-23-5	1272.00/3,000		
LD2981ABM50TR	497-1522-1-ND	5V, 100mA LDO Voltage Regulator	SOT-23-5	1.10	.99	.79
LD2981ABM50TR	497-1522-2-ND	5V, 100mA LDO Voltage Regulator	SOT-23-5	1218.00/3,000		
LD2981ABU33TR	497-1524-1-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1.24	1.12	.89
LD2981ABU33TR	497-1524-2-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1145.00/2,500		
LD2981ABU50TR	497-1525-1-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1.80	1.61	1.28
LD2981ABU50TR	497-1525-2-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1655.00/2,500		
LD2981CM18TR	497-3482-1-ND	1.8V, 100mA LDO Voltage Regulator	SOT-23-5	1.18	1.06	.84
LD2981CM30TR	497-7785-1-ND	3V, 100mA LDO Voltage Regulator*	SOT-23-5	1.18	1.06	.84
LD2981CM30TR	497-7785-2-ND	3V, 100mA LDO Voltage Regulator*	SOT-23-5	1344.00/3,000		
LD2981CM33TR	497-7786-1-ND	3.3V, 100mA LDO Voltage Regulator*	SOT-23-5	1.10	.99	.79
LD2981CM33TR	497-7786-2-ND	3.3V, 100mA LDO Voltage Regulator*	SOT-23-5	1218.00/3,000		
LD2981CM50TR	497-7787-1-ND	5V, 100mA LDO Voltage Regulator*	SOT-23-5	1.37	1.23	.98
LD2981CM50TR	497-7787-2-ND	5V, 100mA LDO Voltage Regulator*	SOT-23-5	1512.00/3,000		
LD2981CU33TR	497-3483-1-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1.24	1.12	.89
LD2981CU33TR	497-3483-2-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1145.00/2,500		
LD2981CU50TR	497-3484-1-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1.24	1.12	.89
LD2981CU50TR	497-3484-2-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1145.00/2,500		
LD2985AM18R	497-3492-1-ND	1.8V, 150mA LDO Voltage Regulator	SOT-23-5	1.39	1.25	.99
LD2985AM25R	497-3493-1-ND	2.5V, 150mA LDO Voltage Regulator	SOT-23-5	1.39	1.25	.99
LD2985BM18R	497-3497-1-ND	1.8V, 150mA LDO Voltage Regulator	SOT-23-5	1.00	.90	.72
LD2985BM18R	497-3497-2-ND	1.8V, 150mA LDO Voltage Regulator	SOT-23-5	1104.00/3,000		
LD2985BM25R	497-3498-1-ND	2.5V, 150mA LDO Voltage Regulator	SOT-23-5	1.10	.99	.79
LD2985BM25R	497-3498-2-ND	2.5V, 150mA LDO Voltage Regulator	SOT-23-5	1218.00/3,000		
LD2985BM27R	497-4940-1-ND	2.7V, 150mA LDO Voltage Regulator	SOT-23-5	.84	.75	.60
LD2985BM27R	497-4940-2-ND	2.7V, 150mA LDO Voltage Regulator	SOT-23-5	957.00/3,000		
LD2985BM28R	497-7788-1-ND	2.8V, 150mA LDO Voltage Regulator*	SOT-23-5	1.80	1.61	1.28
LD2985BM28R	497-7788-2-ND	2.8V, 150mA LDO Voltage Regulator*	SOT-23-5	1986.00/3,000		
LD2985BM30R	497-7789-1-ND	3V, 150mA LDO Voltage Regulator*	SOT-23-5	1.00	.90	.72
LD2985BM30R	497-7789-2-ND	3V, 150mA LDO Volt. Regulator*	SOT-23-5	1104.00/3,000		
LD2985BM33R	497-3499-1-ND	3.3V, 150mA LDO Voltage Regulator	SOT-23-5	1.15	1.03	.82
LD2985BM33R	497-3499-2-ND	3.3V, 150mA LDO Voltage Regulator	SOT-23-5	1272.00/3,000		
LD2985BM50R	497-3500-1-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5	1.00	.90	.72
LD2985BM50R	497-3500-2-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5	1104.00/3,000		
LD3980PU08R	497-6876-1-ND	0.8V, 300mA ULDO Reg.*	6-DFN	2.24	1.93	1.58
LD3980PU08R	497-6876-2-ND	0.8V, 300mA ULDO Regulator*	6-DFN	2595.00/3,000		
LD3980PU18R	497-6878-1-ND	1.8V, 300mA ULDO Regulator*	6-DFN	2.24	1.93	1.58
LD3980PU18R	497-6878-2-ND	1.8V, 300mA ULDO Regulator*	6-DFN	2595.00/3,000		
LD3980PU135R	497-6877-1-ND	1.35V, 300mA ULDO Regulator*	6-DFN	2.24	1.93	1.58
LD3980PU135R	497-6877-2-ND	1.35V, 300mA ULDO Regulator*	6-DFN	2595.00/3,000		
LD3985G33R	497-7793-1-ND	3.3V, 1.5A LDO BiCMOS Voltage Reg.*	TSOT-23-5	1.19	1.07	.85
LD3985G33R	497-7793-2-ND	3.3V, 1.5A LDO BiCMOS Voltage Reg.*	TSOT-23-5	1320.00/3,000		
LD3985J18R	497-1526-1-ND	1.8V, 1.5A LDO BiCMOS Voltage Reg.	FlipChip	1.40	.87	.64
LD3985J33R	497-1527-1-ND	3.3V, 1.5A LDO BiCMOS Voltage Reg.	FlipChip	1.40	.87	.64
LD3985M18R	497-3503-1-ND	1.8V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	1.68	1.33	1.14
LD3985M18R	497-3503-2-ND	1.8V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	1194.00/3,000		
LD3985M25R	497-4254-1-ND	2.5V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	.96	.83	.66
LD3985M25R	497-4254-2-ND	2.5V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	948.00/3,000		
LD3985M27R	497-8340-1-ND	2.7V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	1.56	1.40	1.11
LD3985M27R	497-8340-2-ND	2.7V, LDO BiCMOS Voltage Regulator*	SOT-23-5	1722.00/3,000		
LD3985M28R	497-7795-1-ND	2.8V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	1.08	.97	.77
LD3985M28R	497-7795-2-ND	2.8V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	1194.00/3,000		
LD3985M30R	497-6154-1-ND	3V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	.83	.72	.57
LD3985M30R	497-6154-2-ND	3V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	822.00/3,000		
LD3985M33R	497-3504-1-ND	3.3V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	.96	.83	.66
LD3985M33R	497-3504-2-ND	3.3V, 1.5A LDO BiCMOS Voltage Reg.	SOT-23-5	948.00/3,000		
LD3985M47R	497-6981-1-ND	4.7V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	1.08	.97	.77
LD3985M47R	497-6981-2-ND	4.7V, 1.5A LDO BiCMOS Voltage Reg.*	SOT-23-5	1194.00/3,000		
LD3985M122R	497-7794-1-ND	1.22V, 1.5A LDO BiCMOS Volt Reg.*	SOT-23-5	1.08	.97	.77
LD3985M122R	497-7794-2-ND	1.22V, 1.5A LDO BiCMOS Volt Reg.*	SOT-23-5	1194.00/3,000		
LD39015M08R	497-6975-1-ND	0.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	2.24	1.93	1.58
LD39015M08R	497-6975-2-ND	0.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	897.00/3,000		
LD39015M10R	497-6871-1-ND	1.0V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	.91	.79	.62
LD39015M10R	497-6871-2-ND	1.0V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	897.00/3,000		
LD39015M12R	497-6872-1-ND	1.2V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	.91	.79	.62
LD39015M12R	497-6872-2-ND	1.2V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	897.00/3,000		
LD39015M15R	497-6976-1-ND	1.5V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	.91	.79	.62
LD39015M15R	497-6976-2-ND	1.5V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	2595.00/3,000		
LD39015M18R	497-6977-1-ND	1.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	.91	.79	.62

* *RoHS Compliant*

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(Continued)

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD39015M18R	497-6977-2-ND	1.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	2595.00/3,000		
LD39015M25R	497-6978-1-ND	2.5V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	1.00	.90	.72
LD39015M25R	497-6978-2-ND	2.5V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	2595.00/3,000		
LD39015M33R	497-6979-1-ND	3.3V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	1.00	.90	.72
LD39015M33R	497-6979-2-ND	3.3V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	1104.00/3,000		
LD39015M125R	497-8714-1-ND	1.25V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	.79	.68	.54
LD39015M125R	497-8714-2-ND	1.25V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-23-5	780.00/3,000		
LD39015XG08R	497-6825-1-ND	0.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	.91	.79	.62
LD39015XG08R	497-6825-2-ND	0.8V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	897.00/3,000		
LD39015XG10R	497-8823-1-ND	1V, 150mA Low Quiescent Current, LN, Voltage Regulator* ***NEW!***	SOT-666	.79	.68	.54
LD39015XG10R	497-8823-2-ND	1V, 150mA Low Quiescent Current, LN, Voltage Regulator* ***NEW!***	SOT-666	780.00/3,000		
LD39015XG12R	497-6980-1-ND	1.2V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	.95	.85	.68
LD39015XG12R	497-6980-2-ND	1.2V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	1050.00/3,000		
LD39015XG33R	497-6826-1-ND	3.3V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	.95	.85	.68
LD39015XG33R	497-6826-2-ND	3.3V, 150mA Low Quiescent Current, LN, Voltage Regulator*	SOT-666	1050.00/3,000		
LD39050PU25R	497-8715-1-ND	2.5V, 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1.20	1.08	.86
LD39050PU25R	497-8715-2-ND	2.5V, 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1323.00/3,000		
LD39050PU33R	497-8716-1-ND	3.3V, 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1.20	1.08	.86
LD39050PU33R	497-8716-2-ND	3.3V, 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1323.00/3,000		
LD39050PUR	497-8717-1-ND	Adj., 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1.20	1.08	.86
LD39050PUR	497-8717-2-ND	Adj., 500mA Low Quiescent Current, LN, Voltage Regulator*	6-DFN	1323.00/3,000		
LD39080DT12-R	497-6012-1-ND	1.22V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.80	1.61	1.28
LD39080DT12-R	497-6012-2-ND	1.22V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1655.00/2,500		
LD39080DT18-R	497-6013-1-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.80	1.61	1.28
LD39080DT18-R	497-6013-2-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1655.00/2,500		
LD39080DT25-R	497-6014-1-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.80	1.61	1.28
LD39080DT25-R	497-6014-2-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1655.00/2,500		
LD39080DT33-R	497-6015-1-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.80	1.61	1.28
LD39080DT33-R	497-6015-2-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1655.00/2,500		
LD39080PT-R	497-6019-1-ND	Adjustable, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.80	1.61	1.28
LD39080PT-R	497-6019-2-ND	Adjustable, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1655.00/2,500		
LD39150DT12-R	497-6141-1-ND	1.22V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.71	1.53	1.22
LD39150DT12-R	497-6141-2-ND	1.22V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1575.00/2,500		
LD39150DT18-R	497-7790-1-ND	1.8V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.90	1.64	1.34
LD39150DT25-R	497-6143-1-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.90	1.64	1.34
LD39150DT25-R	497-6143-2-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1835.00/2,500		
LD39150DT33-R	497-6448-1-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.84	1.65	1.31
LD39150DT33-R	497-6448-2-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1690.00/2,500		
LD39150PT25-R	497-7791-1-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.90	1.64	1.34
LD39150PT25-R	497-7791-2-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1835.00/2,500		
LD39150PT33-R	497-6144-1-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1.90	1.64	1.34
LD39150PT33-R	497-6144-2-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1835.00/2,500		
LD39150PT-R	497-7792-1-ND	Adj., 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.90	1.64	1.34
LD39150PT-R	497-7792-2-ND	Adj., 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1835.00/2,500		
LD39300DT12-R	497-6148-1-ND	1.22V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.84	1.65	1.31
LD39300DT12-R	497-6148-2-ND	1.22V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1690.00/2,500		
LD39300DT18-R	497-6873-1-ND	1.8V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1.84	1.65	1.31
LD39300DT18-R	497-6873-2-ND	1.8V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1690.00/2,500		
LD39300DT25-R	497-6150-1-ND	2.5V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1.84	1.65	1.31
LD39300DT25-R	497-6150-2-ND	2.5V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1690.00/2,500		
LD39300DT33-R	497-6874-1-ND	3.3V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1.84	1.65	1.31
LD39300DT33-R	497-6874-2-ND	3.3V, 3A Ultra LDO BiCMOS Volt. Reg.*	D-PAK	1690.00/2,500		
LD39300PT-R	497-5798-1-ND	Adj., 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK	2.32	1.99	1.63
LD39300PT-R	497-5798-2-ND	Adj., 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK	2235.00/2,500		
LD39300PT25-R	497-6875-1-ND	2.5V, 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK	2.24	1.93	1.58
LD39300PT25-R	497-6875-2-ND	2.5V, 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK	2162.50/2,500		
LD39300PT33-R	497-6151-1-ND	3.3V, 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK-5	2.24	1.93	1.58
LD39300PT33-R	497-6151-2-ND	3.3V, 3A Ultra LDO BiCMOS Volt. Reg.*	P-PAK-5	2162.50/2,500		
LD49150PT08R	497-7796-1-ND	0.8V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2.76	2.37	1.94
LD49150PT08R	497-7796-2-ND	0.8V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2660.00/2,500		

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD49150PT10R	497-6847-1-ND	1.0V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2.76	2.37	1.94
LD49150PT10R	497-6847-2-ND	1.0V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2660.00/2,500		
LD49150PT12R	497-6848-1-ND	1.2V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2.76	2.37	1.94
LD49150PT12R	497-6848-2-ND	1.2V, 1.5A VLDO for Low Output Voltage Regulator*	P-PAK	2660.00/2,500		
LD49300PT08-R	497-6155-1-ND	0.8V, 3A VLDO Voltage Regulator*	P-PAK-5	2.33	2.00	1.63
LD49300PT08-R	497-6155-2-ND	0.8V, 3A VLDO Voltage Regulator*	P-PAK-5	2245.00/2,500		
LD49300PT10R	497-8276-1-ND	1.0V, 3A VLDO Voltage Regulator*	P-PAK	2.33	2.00	1.63
LD49300PT10R	497-8276-2-ND	1.0V, 3A VLDO Voltage Regulator*	P-PAK	2245.00/2,500		
LD49300PT12R	497-8277-1-ND	1.2V, 3A VLDO Voltage Regulator*	P-PAK	2.33	2.00	1.63
LD49300PT12R	497-8277-2-ND	1.2V, 3A VLDO Voltage Regulator*	P-PAK	2245.00/2,500		
LDR2533BPT-R	497-3505-1-ND	2.5V to 3.3V LDO Dual Voltage Reg.	P-PAK	1.54	1.33	1.08
LDS3985M18R	497-6146-1-ND	1.8V, 300mA ULDO Voltage Regulator*	SOT-23-5	1.06	.92	.73
LDS3985M18R	497-6146-2-ND	1.8V, 300mA ULDO Voltage Regulator*	SOT-23-5	1053.00/3,000		
LDS3985M25R	497-6147-1-ND	2.5V, 300mA ULDO Voltage Regulator*	SOT-23-5	.92	.80	.63
LDS3985M25R	497-6147-2-ND	2.5V, 300mA ULDO Voltage Regulator*	SOT-23-5	915.00/3,000		
LDS3985M30R	497-6849-1-ND	3V, 300mA ULDO Voltage Regulator*	SOT-23-5	.92	.80	.63
LDS3985M30R	497-6849-2-ND	3V, 300mA ULDO Voltage Regulator*	SOT-23-5	915.00/3,000		
LDS3985M33R	497-4257-1-ND	3.3V, 300mA ULDO Voltage Regulator	SOT-23-5	1.01	.91	.72
LDS3985M33R	497-4257-2-ND	3.3V, 300mA ULDO Voltage Regulator	SOT-23-5	1116.00/3,000		
LDS3985PU15R	497-6850-1-ND	1.5V, 300mA ULDO Voltage Regulator*	6D-DFN	1.10	.99	.79
LDS3985PU15R	497-6850-2-ND	1.5V, 300mA ULDO Voltage Regulator*	6D-DFN	1218.00/3,000		
LDS3985PU28R	497-6851-1-ND	2.8V, 300mA ULDO Voltage Regulator*	6D-DFN	1.15	1.03	.82
LDS3985PU28R	497-6851-2-ND	2.8V, 300mA ULDO Voltage Regulator*	6D-DFN	1272.00/3,000		
LDS3985PU33R	497-6852-1-ND	3.3V, 300mA ULDO Voltage Regulator*	6D-DFN	1.15	1.03	.82
LDS3985PU33R	497-6852-2-ND	3.3V, 300mA ULDO Voltage Regulator*	6D-DFN	1272.00/3,000		
LE30CD-TR	497-8341-1-ND	3V, LDO Voltage Regulator*	8-SOIC	1.32	1.18	.94
LE30CD-TR	497-8341-2-ND	3V, LDO Voltage Regulator*	8-SOIC	1215.00/2,500		
LE30CZ-TR	497-5366-1-ND	3V, LDO Voltage Regulator*	TO-92	.79	.68	.54
LE33CD-TR	497-8342-1-ND	3.3V, LDO Voltage Regulator*	8-SOIC	1.20	1.08	.86
LE33CD-TR	497-8342-2-ND	3.3V, LDO Voltage Regulator*	8-SOIC	1102.50/2,500		
LE33CZ-TR	497-4258-1-ND	3.3V, LDO Voltage Regulator*	TO-92	.88	.76	.60
LE33CZ-TR	497-4258-2-ND	3.3V, LDO Voltage Regulator*	TO-92	580.00/2,000		
LE45ABD-TR	497-1530-1-ND	4.5V, VLDO Voltage Regulator	8-SOIC	1.08	.97	.77
LE45CD-TR	497-7797-1-ND	4.5V, VLDO Voltage Regulator*	8-SOIC	1.32	1.18	.94
LE45CD-TR	497-7797-2-ND	4.5V, VLDO Voltage Regulator*	8-SOIC	1215.00/2,500		
LE50ABD-TR	497-7798-1-ND	5V, VLDO Voltage Regulator*	8-SOIC	1.37	1.23	.98
LE50ABD-TR	497-7798-2-ND	5V, VLDO Voltage Regulator*	8-SOIC	1260.00/2,500		
LE50ABZ-AP	497-1531-1-ND	5V, VLDO Voltage Regulator*	TO-92	1.05	.94	.75
LE50ABZ-AP	497-1531-3-ND	5V, VLDO Voltage Regulator*	TO-92	772.00/2,000		
LE50CD-TR	497-6431-1-ND	5V, VLDO Voltage Regulator*	8-SOIC	1.19	1.07	.85
LE50CD-TR	497-6431-2-ND	5V, VLDO Voltage Regulator*	8-SOIC	1095.00/2,500		
LE80CD-TR	497-5220-1-ND	8V, LDO Voltage Regulator*	8-SOIC	1.01	.91	.72
LE80CD-TR	497-5220-2-ND	8V, LDO Voltage Regulator*	8-SOIC	930.00/2,500		
LED7706TR	497-6879-1-ND	6-Row, 30mA LED Driver*	24-VFQFPN	4.28	3.86	3.15
LED7706TR	497-6879-2-ND	6-Row, 30mA LED Driver*	24-VFQFPN	7596.00/4,000		
LED7707TR	497-8492-1-ND	6-Row, 85mA LED Driver*	24-VFQFPN	4.28	3.86	3.15
LED7707TR	497-8492-2-ND	6-Row, 85mA LED Driver*	24-VFQFPN	7596.00/4000		
LF15ABDT-TR	497-5221-1-ND	1.5V, LDO Voltage Regulator*	D-PAK	1.10	.99	.79
LF18ABDT-TR	497-5843-1-ND	1.8V, VLDO Voltage Regulator*	D-PAK	1.44	1.23	1.05
LF18ABPT-TR	497-7799-1-ND	1.8V, VLDO Voltage Regulator*	P-PAK	1.80	1.55	1.27
LF18ABPT-TR	497-7799-2-ND	1.8V, VLDO Voltage Regulator*	P-PAK	1737.50/2,500		
LF18CDT-TR	497-5222-1-ND	1.8V, VLDO Voltage Regulator*	D-PAK	1.56	1.40	1.11
LF18CDT-TR	497-5222-2-ND	1.8V, VLDO Voltage Regulator*	D-PAK	1435.00/2,500		
LF18CDT-TRY	497-10194-1-ND	1.8V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24
LF18CDT-TRY	497-10194-2-ND	1.8V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1700.00/2,500		
LF18CPT-TR	497-7800-1-ND	1.8V, VLDO Voltage Regulator*	P-PAK	1.56	1.40	1.11
LF18CPT-TR	497-7800-2-ND	1.8V, VLDO Voltage Regulator*	P-PAK	1435.00/2,500		
LF25ABDT-TR	497-5223-1-ND	2.5V, VLDO Voltage Regulator*	D-PAK	1.56	1.40	1.11
LF25ABDT-TRY	497-10195-1-ND	2.5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.84	1.58	1.29
LF25ABDT-TRY	497-10195-2-ND	2.5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1772.50/2,500		
LF25CDT-TR	497-6449-1-ND	2.5V, VLDO Voltage Regulator*	D-PAK	1.76	1.52	1.24
LF25CDT-TR	497-6449-2-ND	2.5V, VLDO Voltage Regulator*	D-PAK	1700.00/2,500		
LF25CDT-TRY	497-10196-1-ND	2.5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24
LF25CDT-TRY	497-10196-2-ND	2.5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1700.00/2,500		
LF33ABDT-TR	497-5225-1-ND	3.3V, VLDO Voltage Regulator*	D-PAK	1.70	1.53	1.21
LF33ABDT-TR	497-5225-2-ND	3.3V, VLDO Voltage Regulator*	D-PAK	1567.50/2,500		
LF33ABV	497-7312-5-ND	3.3V, VLDO Voltage Regulator*	TO-220	1.62	1.44	1.14
LF33CDT-TR	497-1532-1-ND	3.3V, VLDO Voltage Regulator	D-PAK	1.61	1.45	1.15
LF33CDT-TRY	497-10197-1-ND	3.3V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24
LF33CDT-TRY	497-10197-2-ND	3.3V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1700.00/2,500		
LF33CDT-TR	497-1532-2-ND	3.3V, VLDO Voltage Regulator	D-PAK	1485.00/2,500		
LF33CPT-TR	497-5226-1-ND	3.3V, VLDO Voltage Regulator*	P-PAK	1.60	1.43	1.14
LF33CPT-TR	497-5226-2-ND	3.3V, VLDO Voltage Regulator*	P-PAK	1470.00/2,500		
LF33CPT-TRY	497-10198-1-ND	3.3V, VLDO Voltage Regulator* ***NEW!***	P-PAK	1.76	1.52	1.24
LF33CPT-TRY	497-10198-2-ND	3.3V, VLDO Voltage Regulator* ***NEW!***	P-PAK	1700.00/2,500		
LF33CV	497-7313-5-ND	3.3V, VLDO Voltage Regulator*	TO-220	1.35	1.20	.95
LF50ABDT-TR	497-8344-1-ND	5V, VLDO Voltage Regulator*	D-PAK	1.65	1.48	1.18
LF50ABDT-TR	497-8344-2-ND	5V, VLDO Voltage Regulator*	D-PAK	1522.50/2,500		
LF50ABDT-TRY	497-10199-1-ND	5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.84	1.58	1.29
LF50ABDT-TRY	497-10199-2-ND	5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1772.50/2,500		
LF50ABP	497-7314-5-ND	5V, VLDO Voltage Regulator*	TO-220FP	1.61	1.43	1.13
LF50ABPT-TR	497-5227-1-ND	5V, VLDO Voltage Regulator*	P-PAK	1.88	1.65	1.40
LF50ABV	497-7315-5-ND	5V, VLDO Voltage Regulator*	TO-220	1.56	1.42	1.14
LF50CDT-TR	497-1534-1-ND	5V, VLDO Voltage Regulator	D-PAK	1.76	1.52	1.24
LF50CDT-TR	497-1534-2-ND	5V, VLDO Voltage Regulator	D-PAK	1700.00/2,500		
LF50CDT-TRY	497-10200-1-ND	5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24
LF50CDT-TRY	497-10200-2-ND	5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1700.00/2,500		
LF50CPT-TR	497-5228-1-ND	5V, VLDO Voltage Regulator*	P-PAK	2.02	1.74	1.42
LF50CV	497-8357-5-ND	5V, VLDO Voltage Regulator*	TO-220	1.59	1.41	1.12
LF60ABDT-TR	497-1535-1-ND	6V, VLDO Voltage Regulator	D-PAK	1.01	.91	.72
LF60ABDT-TR	497-1535-2-ND	6V, VLDO Voltage Regulator	D-PAK	930.00/2,500		
LF60ABV	497-7316-5-ND	6V, VLDO Voltage Regulator*	TO-220	1.56	1.42	1.14
LF60CV	497-7317-5-ND	6V, VLDO Voltage Regulator*	TO-220	1.20	1.06	.84
LF80ABDT-TR	497-5229-1-ND	8V, VLDO Voltage Regulator*	D-PAK	1.43	1.28	1.02
LF80ABV	497-7318-5-ND	8V, VLDO Voltage Regulator*	TO-220	1.29	1.15	.91
LF80CDT-TR	497-1537-1-ND	8V, VLDO Voltage Regulator	D-PAK	1.64	1.47	1.17
LF80CDT-TR	497-1537-2-ND	8V, VLDO Voltage Regulator	D-PAK	1507.50/2,500		
LF80CDT-TRY	497-10202-1-ND	8V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24
LF80CDT-TRY	497-10202-2-ND	8V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1700.00/2,500		
LF80CV	497-8358-5-ND	8V, VLDO Voltage Regulator*	TO-220	1.29	1.15	.91
LF85CDT-TR	497-5673-1-ND	8.5V, VLDO Voltage Regulator*	D-PAK	1.76	1.52	1.24
LF85CDT-TR	497-5673-2-ND	8.5V, VLDO Voltage Regulator*	D-PAK	1700.00/2,500		
LF85CDT-TRY	497-10203-1-ND	8.5V, VLDO Voltage Regulator* ***NEW!***	D-PAK	1.76	1.52	1.24

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* *RoHS Compliant*

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(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LF85CDT-TRY	497-10203-2-ND	8.5V, VLDO Voltage Regulator* **NEW!**	D-PAK	1700.00/2,500		
LF85CPT-TR	497-7802-1-ND	8.5V, VLDO Voltage Regulator*	P-PAK	1.52	1.36	1.08
LF85CPT-TR	497-7802-2-ND	8.5V, VLDO Voltage Regulator*	P-PAK	1397.50/2,500		
LF90ABDT-TR	497-1539-1-ND	9V, VLDO Voltage Regulator	D-PAK	1.37	1.23	.98
LF90CDT-TR	497-7803-1-ND	9V, VLDO Voltage Regulator*	D-PAK	1.36	1.22	.97
LF90CDT-TR	497-7803-2-ND	9V, VLDO Voltage Regulator*	D-PAK	1250.00/2,500		
LF90CPT-TR	497-7804-1-ND	9V, VLDO Voltage Regulator*	P-PAK	1.03	.91	.72
LF90CV	497-8929-5-ND	9V, VLDO Voltage Regulator*	TO-220	1.48	1.32	1.04
LF120ABDT-TR	497-8330-1-ND	12V, LDO Voltage Regulator*	D-PAK	1.30	1.16	.93
LF120ABDT-TR	497-8330-2-ND	12V, LDO Voltage Regulator*	D-PAK	1192.50/2,500		
LF120CDT-TR	497-8343-1-ND	12V, LDO Voltage Regulator*	D-PAK	1.37	1.23	.98
LF120CDT-TR	497-8343-2-ND	12V, LDO Voltage Regulator*	D-PAK	1260.00/2,500		
LK112M15TR	497-7805-1-ND	1.5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.15	1.03	.82
LK112M15TR	497-7805-2-ND	1.5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1272.00/3,000		
LK112M18TR	497-7806-1-ND	1.8V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.12	1.00	.80
LK112M18TR	497-7806-2-ND	1.8V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1236.00/3,000		
LK112M25TR	497-8345-1-ND	2.5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.15	1.03	.82
LK112M25TR	497-8345-2-ND	2.5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1272.00/3,000		
LK112M33TR	497-7807-1-ND	3.3V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.15	1.03	.82
LK112M33TR	497-7807-2-ND	3.3V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1272.00/3,000		
LK112M50TR	497-7808-1-ND	5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.12	1.00	.80
LK112M50TR	497-7808-2-ND	5V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1236.00/3,000		
LK112M60TR	497-7809-1-ND	6V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.12	1.00	.80
LK112M60TR	497-7809-2-ND	6V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1236.00/3,000		
LK112M80TR	497-7810-1-ND	8V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.15	1.03	.82
LK112M80TR	497-7810-2-ND	8V, 150mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1272.00/3,000		
LK112SM18TR	497-7811-1-ND	1.8V, 200mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1.00	.90	.72
LK112SM18TR	497-7811-2-ND	1.8V, 200mA Low Noise, LDO Voltage Regulator*	SOT-23-5	1104.00/3,000		
LK112SM33TR	497-6450-1-ND	3.3V, 200mA LDO Regulator*	SOT-23-5	.96	.84	.66
LK112SM33TR	497-6450-2-ND	3.3V, 200mA LDO Regulator*	SOT-23-5	954.00/3,000		
LK112SM50TR	497-4259-1-ND	5V, 200mA Low Noise, LDO Voltage Regulator	SOT-23-5	.91	.79	.62
LK112SM50TR	497-4259-2-ND	5V, 200mA Low Noise, LDO Voltage Regulator	SOT-23-5	897.00/3,000		
LK115D33-TR	497-1540-1-ND	3.3V, 100mA VLDO Regulator	8-SOIC	1.10	.99	.79
LK115D33-TR	497-1540-2-ND	3.3V, 100mA VLDO Regulator	8-SOIC	1015.00/2,500		
LK115D50-TR	497-1541-1-ND	5V, 100mA VLDO Regulator	8-SOIC	1.19	1.07	.85
LK115D50-TR	497-1541-2-ND	5V, 100mA VLDO Regulator	8-SOIC	1095.00/2,500		
LM117K	497-6705-ND	1.2V-37V Adj. Voltage Regulator*	TO-3	6.96	6.27	5.15
LM137K	497-6436-ND	3-Terminal Adj. Negative Volt. Reg.*	TO-3	6.83	6.15	5.06
LM138K	497-6706-ND	5A, Adj. Voltage Regulator*	TO-3	11.55	10.50	8.93
LM217D2T-TR	497-7320-1-ND	1.2V to 37V Adj. Voltage Regulator*	D2-PAK	1.20	1.08	.86
LM217D2T-TR	497-7320-2-ND	1.2V to 37V Adj. Voltage Regulator*	D2-PAK	473.00/1,000		
LM217K	497-7321-ND	1.2V to 37V Adj. Voltage Regulator*	TO-3	4.26	3.81	3.13
LM217LD13TR	497-6451-1-ND	1.2V to 37V Adj. Voltage Regulator*	8-SOIC	.83	.72	.57
LM217LD13TR	497-6451-2-ND	1.2V to 37V Adj. Voltage Regulator*	8-SOIC	685.00/2,500		
LM217LZ-TR	497-7322-1-ND	1.2V to 37V Adj. Voltage Regulator*	TO-92	.88	.76	.60
LM217LZ-TR	497-7322-2-ND	1.2V to 37V Adj. Voltage Regulator*	TO-92	580.00/2,000		
LM217MDT-TR	497-6452-1-ND	1.2V to 37V Adj. Voltage Regulator*	D-PAK	1.26	1.13	.90
LM217MDT-TR	497-6452-2-ND	1.2V to 37V Adj. Voltage Regulator*	D-PAK	1162.50/2,500		
LM217T	497-1543-5-ND	1.2V to 37V Adj. Voltage Regulator	TO-220	1.36	1.21	.96
LM238K	497-8362-ND	5A Adjustable Voltage Regulator*	TO-3	10.90	9.81	8.07
LM2931AD33R	497-6880-1-ND	3.3V, LDO Voltage Regulator*	8-SOIC	.96	.83	.66
LM2931AD33R	497-6880-2-ND	3.3V, LDO Voltage Regulator*	8-SOIC	790.00/2,500		
LM2931AD50R	497-1563-1-ND	5V, LDO Voltage Regulator	8-SOIC	.96	.84	.66
LM2931AD50R	497-1563-2-ND	5V, LDO Voltage Regulator*	8-SOIC	795.00/2,500		
LM2931ADT50R	497-1564-1-ND	5V, LDO Voltage Regulator	D-PAK	1.24	1.11	.89
LM2931ADT50R	497-1564-2-ND	5V, LDO Voltage Regulator	D-PAK	1140.00/2,500		
LM2931AZ50R	497-4262-1-ND	5V, LDO Voltage Regulator	TO-92	.79	.68	.54
LM2931AZ50R	497-4262-2-ND	5V, LDO Voltage Regulator	TO-92	520.00/2,000		
LM2931D-R	497-7817-1-ND	2.5V to 26V, 100mA VLDO Volt. Reg.*	8-SOIC	1.12	1.00	.80
LM2931D-R	497-7817-2-ND	2.5V to 26V, 100mA VLDO Volt. Reg.*	8-SOIC	1030.00/2,500		
LM317D2T-TR	497-1571-1-ND	1.2V to 37V Adjustable Regulator	D2-PAK	1.06	.92	.73
LM317D2T-TR	497-1571-2-ND	1.2V to 37V Adjustable Regulator	D2-PAK	387.00/1,000		
LM317K	497-6435-ND	1.2V to 37V Adjustable Regulator*	TO-3	3.09	2.76	2.27
LM317LD13TR	497-1572-1-ND	1.2V to 37V Adjustable Regulator	8-SOIC	.59	.48	.36
LM317LD13TR	497-1572-2-ND	1.2V to 37V Adjustable Regulator	8-SOIC	415.00/2,500		
LM317LZ	497-1573-5-ND	1.2V to 37V Adjustable Regulator	TO-92	.63	.54	.40
LM317LZ-AP	497-4266-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.67	.58	.46
LM317LZ-AP	497-4266-2-ND	1.2V to 37V Adjustable Regulator	TO-92	440.00/2,000		
LM317MDT-TR	497-1574-1-ND	1.2V to 37V Adjustable Regulator	D-PAK	.79	.68	.54
LM317MDT-TR	497-1574-2-ND	1.2V to 37V Adjustable Regulator	D-PAK	650.00/2,500		
LM317P	497-6707-5-ND	1.2V-37V Adj. Voltage Regulator*	TO-220FP	1.14	1.02	.80
LM317T	497-1575-5-ND	1.2V to 37V Adjustable Regulator	TO-220	.72	.63	.49
LM323K	497-2976-5-ND	5V, 3A Positive Voltage Regulator	TO-3	5.12	4.57	3.75
LM323T	497-8359-5-ND	5V, 3A Positive Voltage Regulator*	TO-220	1.63	1.47	1.19
LM337K	497-7331-ND	3-Terminal Adj. Negative Voltage Reg.*	TO-3	6.00	5.36	4.40
LM337SP	497-1585-5-ND	3-Terminal Adj. Negative Voltage Reg.	TO-220	1.35	1.20	.95
LM338K	497-2979-5-ND	3-Terminal 5A Adjustable Voltage Reg.	TO-3	9.56	8.60	7.08
LM350K	497-2982-5-ND	3-Terminal 3A Adjustable Voltage Reg.	TO-3	7.48	6.74	5.54
LM723CN	497-1596-5-ND	High Precision Voltage Regulator	14-Dip	.76	.67	.52
LNBH21PD-TR	497-4270-1-ND	LNB Supply/Control IC	20-PowerSSO	5.99	5.39	4.39
LNBH21PD-TR	497-4270-2-ND	LNB Supply/Control IC	20-PowerSSO	1987.20/600		
LNBH23LQTR	497-8521-1-ND	LNB Supply/Control IC*	32-QFN	2.76	2.37	1.94
LNBH23LQTR	497-8521-2-ND	LNB Supply/Control IC*	32-QFN	3192.00/3,000		
LNBH23PPR	497-6121-1-ND	LNB Supply/Control IC*	24-PowerSSO	5.33	4.80	3.91
LNBH23PPR	497-6121-2-ND	LNB Supply/Control IC*	24-PowerSSO	2485.00/1,000		
LNBH24PPR	497-6882-1-ND	Dual LNB Supply/ Control IC*	36-PowerSSO	5.04	4.54	3.70
LNBH24PPR	497-6882-2-ND	Dual LNB Supply/ Control IC*	36-PowerSSO	2352.00/1,000		
LNBH221PD-TR	497-4271-1-ND	Dual LNB Supply/Control IC	36-PowerSSO	7.05	6.39	5.32
LNBH221PD-TR	497-4271-2-ND	Dual LNB Supply/Control IC	36-PowerSSO	2473.80/600		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LNBK20D2-TR	497-7822-1-ND	LNB Supply/Control Voltage Regulator*	20-SOIC	2.85	2.57	2.09
LNBK20D2-TR	497-7822-2-ND	LNB Supply/Control Voltage Regulator*	20-SOIC	1369.00/1,000		
LNBP8LIT	497-8720-5-ND	LNB Supply/Control Voltage Regulator*	IPPAK	1.66	1.47	1.16
LNBP9LIT	497-8721-5-ND	LNB Supply/Control Voltage Regulator*	IPPAK	1.66	1.47	1.16
LNBP10LPUR	497-8718-1-ND	LNB Supply/Control Voltage Regulator*	8-DFN	1.84	1.58	1.29
LNBP11LPUR	497-8719-1-ND	LNB Supply/Control Voltage Regulator*	8-DFN	1.84	1.58	1.29
LNBP12SP-TR	497-8363-1-ND	LNB Supply/Control Voltage Regulator*	10-PowerSO	4.57	4.12	3.36
LNBP12SP-TR	497-8363-2-ND	LNB Supply/Control Voltage Regulator*	10-PowerSO	1516.80/600		
LNBP16SP-TR	497-8347-1-ND	LNBP Supply/Control Voltage Reg.*	10-PowerSO	4.57	4.12	3.36
LNBP16SP-TR	497-8347-2-ND	LNBP Supply/Control Voltage Reg.*	10-PowerSO	1516.80/600		
LNBP20PD-TR	497-8348-1-ND	LNBP Supply/Control Voltage Reg.*	20-PowerSO	5.04	4.54	3.70
LNBP20PD-TR	497-8348-2-ND	LNBP Supply/Control Voltage Reg.*	20-PowerSO	1673.40/600		
LNBP21PD-TR	497-4273-1-ND	LNBP Supply/Control IC	36-PowerSSO	5.67	5.11	4.16
LNBP21PD-TR	497-4273-2-ND	LNBP Supply/Control IC	36-PowerSSO	1882.20/600		
LNBS21PD-TR	497-5369-1-ND	LNB Supply/Control IC*	36-PowerSSO	4.22	3.80	3.10
M40SZ100WMQ6F	497-4688-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7.23	6.56	5.46
M40SZ100WMQ6F	497-4688-2-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	8872.50/2,500		
M40Z111MH6	497-2799-5-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	7.96	7.17	5.90
M40Z300WMH6E	497-2800-5-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	9.95	8.96	7.37
M40Z300WMH6F	497-4691-1-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	10.55	9.56	7.96
M40Z300WMQ6F	497-4692-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7.30	6.62	5.52
MC34063ABD-TR	497-7849-1-ND	DC/DC Converter Control Circuit*	8-SOIC	1.51	1.35	1.08
MC34063ABD-TR	497-7849-2-ND	DC/DC Converter Control Circuit*	8-SOIC	1390.00/2,500		
MC34063ABN	497-7412-5-ND	DC/DC Converter Control Circuit*	8-Dip	1.66	1.47	1.16
MC34063ACD-TR	497-7850-1-ND	DC/DC Converter Control Circuit*	8-SOIC	1.00	.90	.72
MC34063ACD-TR	497-7850-2-ND	DC/DC Converter Control Circuit*	8-SOIC	920.00/2,500		
MC34063ACN	497-7413-5-ND	DC/DC Converter Control Circuit*	8-Dip	1.40	1.24	.98
MC34063EBD-TR	497-7851-1-ND	DC/DC Converter Control Circuit*	8-SOIC	1.19	1.07	.85
MC34063EBD-TR	497-7851-2-ND	DC/DC Converter Control Circuit*	8-SOIC	1100.00/2,500		
MC34063EBN	497-7414-5-ND	DC/DC Converter Control Circuit*	8-Dip	1.47	1.31	1.03
MC34063ECD-TR	497-7852-1-ND	DC/DC Converter Control Circuit*	8-SOIC	1.06	.92	.73
MC34063ECD-TR	497-7852-2-ND	DC/DC Converter Control Circuit*	8-SOIC	877.50/2,500		
MC34063ECN	497-4280-5-ND	DC/DC Converter Control Circuit	8-Dip	.72	.63	.49
PB137ACV	497-5376-5-ND	Positive Volt. Reg. for Battery Charger*	TO-220	1.32	1.18	.93
PM6600TR	497-6892-1-ND	6-Row, 32mA LED Driver*	24-VFQFPN	4.41	3.97	3.24
PM6600TR	497-6892-2-ND	6-Row, 32mA LED Driver*	24-VFQFPN	7820.00/4,000		
PM6641TR	497-6893-1-ND	Mono VR for Chipset and DDR2/3 Supply for UMPC Applications*	48-VFQFPN	6.68	6.05	5.04
PM6641TR	497-6893-2-ND	Mono VR for Chipset and DDR2/3 Supply for UMPC Applications*	48-VFQFPN	8190.00/2,500		
PM6670ASTR	497-6305-1-ND	Complete DDR2/3 Memory Power Supply Controller*	24-VFQFPN	2.94	2.52	2.06
PM6670ASTR	497-6305-2-ND	Complete DDR2/3 Memory Power Supply Controller*	24-VFQFPN	4536.00/4,000		
PM6670STR	497-6306-1-ND	Complete DDR2/3 Memory Power Supply Controller*	24-VFQFPN	2.76	2.37	1.94
PM6670STR	497-6306-2-ND	Complete DDR2/3 Memory Power Supply Controller*	24-VFQFPN	4256.00/4,000		
PM6675ASTR	497-6894-1-ND	High Eff. Step-Down Controller*	24-VFQFPN	2.94	2.52	2.06
PM6675ASTR	497-6894-2-ND	High Eff. Step-Down Controller*	24-VFQFPN	4536.00/4,000		
PM6675STR	497-6895-1-ND	High Eff. Step-Down Controller*	24-VFQFPN	2.76	2.37	1.94
PM6675STR	497-6895-2-ND	High Eff. Step-Down Controller*	24-VFQFPN	4256.00/4,000		
PM6680ATR	497-6896-1-ND	Dual Sync. Step-Down Controller*	32-VFQFPN	6.30	5.67	4.62
PM6680ATR	497-6896-2-ND	Dual Sync. Step-Down Controller*	32-VFQFPN	8379.00/3,000		
PM6680TR	497-7859-1-ND	No Rsense Dual Step-Down Controller*	32-VFQFPN	4.73	4.26	3.47
PM6680TR	497-7859-2-ND	No Rsense Dual Step-Down Controller*	32-VFQFPN	6285.00/3,000		
PM6681ATR	497-6828-1-ND	Dual Step-Down Controller*	32-VFQFPN	3.78	3.41	2.78
PM6681ATR	497-6828-2-ND	Dual Step-Down Controller*	32-VFQFPN	5028.00/3,000		
PM6685TR	497-7860-1-ND	Dual Step-Down Main Supply Controller*	32-VFQFPN	3.21	2.90	2.36
PM6685TR	497-7860-2-ND	Dual Step-Down Main Supply Controller*	32-VFQFPN	4272.00/3,000		
PM6686TR	497-8522-1-ND	Dual Step-Down Controller*	32-VFQFPN	3.21	2.90	2.36
PM6686TR	497-8522-2-ND	Dual Step-Down Controller*	32-VFQFPN	4272.00/3,000		
PM8800ATR	497-6897-1-ND	Integrated PoE-PD Interface/PWM Controller*	16-HTSSOP	5.26	4.74	3.86
PM8800ATR	497-6897-2-ND	Integrated PoE-PD Interface/PWM Controller*	16-HTSSOP	5832.50/2,500		
PM8834TR	497-8378-1-ND	4A Dual Low Side MOSFET Driver*	8-SOIC	3.09	2.65	2.17
PM8834TR	497-8378-2-ND	4A Dual Low Side MOSFET Driver*	8-SOIC	2977.50/2,500		
SG2525AN	497-2038-5-ND	Regulating Pulse Width Modulator*	16-Dip	1.63	1.47	1.19
SG2525AP	497-6726-5-ND	Regulating Pulse Width Modulator*	16-SOIC	1.92	1.74	1.40
SG2525AP013TR	497-2039-1-ND	Regulating Pulse Width Modulator	16-SOIC	1.86	1.60	1.31
SG2525AP013TR	497-2039-2-ND	Regulating Pulse Width Modulator	16-SOIC	1795.00/2,500		
SG3524N	497-2992-5-ND	Regulating Pulse Width Modulator	16-Dip	1.62	1.44	1.14
SG3524P	497-5377-5-ND	Regulating Pulse Width Modulator*	16-SOIC	1.92	1.74	1.40
SG3524P013TR	497-2040-1-ND	Regulating Pulse Width Modulator	16-SOIC	1.68	1.50	1.20
SG3524P013TR	497-2040-2-ND	Regulating Pulse Width Modulator	16-SOIC	1542.50/2,500		
SG3525AN	497-2041-5-ND	Regulating Pulse Width Modulator	16-Dip	1.54	1.37	1.09
SG3525AP	497-2993-5-ND	Regulating Pulse Width Modulator*	16-SOIC	1.73	1.57	1.26
SG3525AP013TR	497-6479-1-ND	Regulating Pulse Width Modulator*	16-SOIC	1.61	1.45	1.15
SG3525AP013TR	497-6479-2-ND	Regulating Pulse Width Modulator*	16-SOIC	1485.00/2,500		
SPDC12L00010	497-9072-ND	DC/DC Step-Down Pwr Supply* **NEW!**	121-LGA	14.50	13.18	11.21
SPDC400FC12M0.35	497-8257-ND	DC/DC Step-Down Power Supply*	—	6.82	6.14	5.05
ST1L02PU18R	497-6899-1-ND	1.8V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1.80	1.61	1.28
ST1L02PU18R	497-6899-2-ND	1.8V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1986.00/3,000		
ST1L02PU25R	497-6900-1-ND	2.5V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1.80	1.61	1.28
ST1L02PU25R	497-6900-2-ND	2.5V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1986.00/3,000		
ST1L02PU33R	497-6901-1-ND	3.3V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1.80	1.61	1.28
ST1L02PU33R	497-6901-2-ND	3.3V, 1A, Very Low Quiescent BiCMOS Voltage Regulator*	6D-DFN	1986.00/3,000		
ST1L04PT-R	497-7916-1-ND	Low Quiescent Current Voltage Reg.*	P-PAK	1.16	1.04	.83
ST1L04PT-R	497-7916-2-ND	Low Quiescent Current Voltage Reg.*	P-PAK	1067.50/2,500		
ST1L05APU33R	497-8980-1-ND	3.3V, Very Low Quiescent BiCMOS Voltage Regulator* **NEW!**	6-DFN	1.00	.90	.72
ST1L05APU33R	497-8980-2-ND	3.3V, Very Low Quiescent BiCMOS Voltage Regulator* **NEW!**	6-DFN	1104.00/3,000		
ST1L05BPUR	497-6829-1-ND	Adj., Very Low Quiescent BiCMOS Voltage Regulator*	6-DFN	1.00	.90	.72
ST1L05BPUR	497-6829-2-ND	Adj., Very Low Quiescent BiCMOS Voltage Regulator*	6-DFN	1104.00/3,000		
ST1L05PU25R	497-6830-1-ND	2.5V, Very Low Quiescent BiCMOS Voltage Regulator*	6-DFN	1.00	.90	.72

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* *RoHS Compliant*

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(Continued)

STMicroelectronics DigiReel® (Cont.)

POWER MANAGEMENT
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ST1L05PU25R	497-6830-2-ND	2.5V, Very Low Quiescent BiCMOS Voltage Regulator*	6-DFN	1104.00/3,000		
ST1L05DPUR	497-10055-1-ND	Adj., Very Low Quiescent BiCMOS Voltage Regulator* ***NEW!***	8-DFN	1.60	1.43	1.14
ST1L05DPUR	497-10055-2-ND	Adj., Very Low Quiescent BiCMOS Voltage Regulator* ***NEW!***	8-DFN	2646.00/4,500		
ST1S03APUR	497-6902-1-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	1.80	1.61	1.28
ST1S03APUR	497-6902-2-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2553.00/3,000		
ST1S03PUR	497-6046-1-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	1.84	1.58	1.29
ST1S03PUR	497-6046-2-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2127.00/3,000		
ST1S06APUR	497-6309-1-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2.46	2.12	1.73
ST1S06APUR	497-6309-2-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2850.00/3,000		
ST1S06PU12R	497-6310-1-ND	1.5A, 1.5MHz, 1.2V, Step-Down Switching Regulator*	6D-DFN	2.46	2.12	1.73
ST1S06PU12R	497-6310-2-ND	1.5A, 1.5MHz, 1.2V, Step-Down Switching Regulator*	6D-DFN	2850.00/3,000		
ST1S06PU33R	497-6311-1-ND	1.5A, 1.5MHz, 3.3V, Step-Down Switching Regulator*	6D-DFN	2.46	2.12	1.73
ST1S06PU33R	497-6311-2-ND	1.5A, 1.5MHz, 3.3V, Step-Down Switching Regulator*	6D-DFN	2850.00/3,000		
ST1S06PUR	497-5802-1-ND	1.5A, 1.5MHz, Adjustable, Step-Down Switching Regulator*	6-DFN	2.06	1.77	1.45
ST1S06PUR	497-5802-2-ND	1.5A, 1.5MHz, Adjustable, Step-Down Switching Regulator*	6-DFN	2382.00/3,000		
ST1S09IPUR	497-6903-1-ND	2A, 1.5MHz PWM Step-Down Switching Regulator*	6D-DFN	2.65	2.27	1.86
ST1S09IPUR	497-6903-2-ND	2A, 1.5MHz PWM Step-Down Switching Regulator*	6D-DFN	3063.00/3,000		
ST1S09PUR	497-6312-1-ND	2A, 1.5MHz, PWM Step-Down Switching Regulator*	6D-DFN	2.65	2.27	1.86
ST1S09PUR	497-6312-2-ND	2A, 1.5MHz, PWM Step-Down Switching Regulator*	6D-DFN	3063.00/3,000		
ST1S10PHR	497-6904-1-ND	3A, 900kHz, Mono Sync. Step-Down Regulator*	8-PowerSO	2.94	2.52	2.06
ST1S10PHR	497-6904-2-ND	3A, 900kHz, Mono Sync. Step-Down Regulator*	8-PowerSO	2835.00/2,500		
ST1S10PUR	497-6313-1-ND	3A, 900kHz, Step-Down Regulator*	8-DFN	2.94	2.52	2.06
ST1S12G12R	497-6905-1-ND	1.2V, 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2.39	2.05	1.68
ST1S12G12R	497-6905-2-ND	1.2V, 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2766.00/3,000		
ST1S12G18R	497-6831-1-ND	1.8V, 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2.39	2.05	1.68
ST1S12G18R	497-6831-2-ND	1.8V, 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2766.00/3,000		
ST1S12GR	497-6906-1-ND	Adj., 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2.39	2.05	1.68
ST1S12GR	497-6906-2-ND	Adj., 0.7A Step-Down DC/DC Converter*	TSOT-23-5	2766.00/3,000		
ST2L05R3300PS	497-7923-1-ND	Very Low Quiescent Current Dual Voltage Regulator*	8-DFN	2.87	2.46	2.01
ST2L05R3300PS	497-7923-2-ND	Very Low Quiescent Current Dual Voltage Regulator*	8-DFN	3318.00/3,000		
ST2S06A33PQR	497-6909-1-ND	3.3V, 0.5A, 1.5MHz Dual Step-Down DC/DC Converter*	12-QFN	3.02	2.73	2.22
ST2S06A33PQR	497-6909-2-ND	3.3V, 0.5A, 1.5MHz Dual Step-Down DC/DC Converter*	12-QFN	6034.50/4,500		
ST2S06BPQR	497-6910-1-ND	Adj., 0.5A, 1.5MHz Dual Step-Down DC/DC Converter*	12-QFN	3.02	2.73	2.22
ST2S06BPQR	497-6910-2-ND	Adj., 0.5A, 1.5MHz Dual Step-Down DC/DC Converter*	12-QFN	6034.50/4,500		
ST5R25MTR	497-4314-1-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5	.97	.60	.44
ST5R25MTR	497-4314-2-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5	1134.00/3,000		
ST8R00WPUR	497-6105-1-ND	MPU 1A Adj. Volt. Sync. Step-Up DC/DC Converter, Continuous Mode*	8-DFN	2.76	2.37	1.94
ST8R00WPUR	497-6105-2-ND	MPU 1A Adj. Volt. Sync. Step-Up DC/DC Converter, Continuous Mode*	8-DFN	4788.00/4,500		
ST662ABD-TR	497-6541-1-ND	5V~12V DC-DC Converter, Flash Memory Programming*	8-SOIC	2.76	2.37	1.94
ST662ABD-TR	497-6541-2-ND	5V~12V DC-DC Converter Flash Memory Programming*	8-SOIC	2660.00/2,500		
ST662ABD-TRY	497-10226-1-ND	5V~12V DC-DC Converter Flash Memory Programming* ***NEW!***	8-SOIC	3.31	2.84	2.32
ST662ABD-TRY	497-10226-2-ND	5V~12V DC-DC Converter Flash Memory Programming* ***NEW!***	8-SOIC	3190.002,500		
ST662ACD-TR	497-6542-1-ND	5V~12V DC-DC Converter Flash Memory Programming*	8-SOIC	2.03	1.74	1.43
ST662ACD-TR	497-6542-2-ND	5V~12V DC-DC Converter Flash Memory Programming*	8-SOIC	1957.50/2,500		
ST715M25R	497-6998-1-ND	2.5V, 85mA LDO Linear Regulator*	SOT-23-5	1.32	1.18	.94
ST715M25R	497-6998-2-ND	2.5V, 85mA LDO Linear Regulator*	SOT-23-5	1458.00/3,000		
ST715M33R	497-8328-1-ND	3.3V, 85mA LDO Linear Regulator*	SOT-23-5	1.32	1.18	.94
ST715M33R	497-8328-2-ND	3.3V, 85mA LDO Linear Regulator*	SOT-23-5	1458.00/3,000		
ST715MR	497-6832-1-ND	Adj., 85mA LDO Linear Regulator*	SOT-23-5	1.32	1.18	.94
ST715MR	497-6832-2-ND	Adj., 85mA LDO Linear Regulator*	SOT-23-5	1458.00/3,000		
ST715PU25R	497-8329-1-ND	2.5V, 85mA LDO Linear Regulator*	8-DFN	1.32	1.18	.94
ST715PU25R	497-8329-2-ND	2.5V, 85mA LDO Linear Regulator*	8-DFN	1458.00/3,000		
ST715PU33R	497-6911-1-ND	3.3V, 85mA LDO Linear Regulator*	8-DFN	1.32	1.18	.94
ST715PU33R	497-6911-2-ND	3.3V, 85mA LDO Linear Regulator*	8-DFN	1458.00/3,000		
ST715PUR	497-7046-1-ND	Adj., 85mA LDO Linear Regulator*	8-DFN	1.32	1.18	.94
ST715PUR	497-7046-2-ND	Adj., 85mA LDO Linear Regulator*	8-DFN	1458.00/3,000		
STBB1PUR	497-8523-1-ND	Adj., 1A Dual DC/DC Converter*	10-DFN	2.94	2.52	2.06
STBB1PUR	497-8523-2-ND	Adj., 1A Dual DC/DC Converter*	10-DFN	3402.00/3,000		
STBC08PMR	497-5808-1-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	6-DFN	1.80	1.61	1.28
STBC08PMR	497-5808-2-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	6-DFN	1986.00/3,000		
STBP120CVDK6F	497-10153-1-ND	Overvoltage Protection w/ Thermal Shutdown* ***NEW!***	10-TDFN	1.52	1.36	1.08

STMicroelectronics DigiReel® (Cont.)

POWER MANAGEMENT
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STBP120CVDK6F	497-10153-2-ND	Overvoltage Protection w/ Thermal Shutdown* ***NEW!***	10-TDFN	1677.00/3,000		
STC3100IQT	497-8824-1-ND	Battery Monitor with Coulomb Counter/Gas Gauge* ***NEW!***	8-DFN	3.47	3.12	2.55
STC3100IQT	497-8824-2-ND	Battery Monitor with Coulomb Counter/Gas Gauge* ***NEW!***	8-DFN	4608.00/3,000		
STC4054GR	497-5809-1-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	TSOT-23-5	2.29	2.02	1.71
STCF02PNR	497-5245-1-ND	High Power White LED Driver*	20-QFN	5.20	4.68	3.82
STCF03ITBR	497-6315-1-ND	High Power White LED Driver*	25-µTFBGA	3.47	3.12	2.55
STCF03ITBR	497-6315-2-ND	High Power White LED Driver*	25-µTFBGA	5376.00/3,500		
STCF03PNR	497-6913-1-ND	High Power White LED Driver*	20-QFN	3.12	2.81	2.29
STCF03PNR	497-6913-2-ND	High Power White LED Driver*	20-QFN	6223.50/4,500		
STCF03TBR	497-6316-1-ND	High Power White LED Driver*	25-µTFBGA	3.47	3.12	2.55
STCF03TBR	497-6316-2-ND	High Power White LED Driver*	25-µTFBGA	5376.00/3,500		
STCF07PNR	497-10328-1-ND	High Power White LED Driver* ***NEW!***	16-QFN	3.78	3.41	2.78
STCF07PNR	497-10328-2-ND	High Power White LED Driver* ***NEW!***	16-QFN	5028.00/3,000		
STCL1100YBFCWY5	497-6834-1-ND	10MHz High Freq. Silicon Oscillator*	SOT-23-5	1.80	1.61	1.28
STCL1100YBFCWY5	497-6834-2-ND	10MHz High Freq. Silicon Oscillator*	SOT-23-5	1986.00/3,000		
STCL1120YBFCWY5	497-6835-1-ND	12MHz High Freq. Silicon Oscillator*	SOT-23-5	1.80	1.61	1.28
STCL1120YBFCWY5	497-6835-2-ND	12MHz High Freq. Silicon Oscillator*	SOT-23-5	1986.00/3,000		
STCL1160YBFCWY5	497-6836-1-ND	16MHz High Freq. Silicon Oscillator*	SOT-23-5	1.80	1.61	1.28
STCL1160YBFCWY5	497-6836-2-ND	16MHz High Freq. Silicon Oscillator*	SOT-23-5	1986.00/3,000		
STCL132KRDEAW89	497-8497-1-ND	32,768Hz Silicon Oscillator*	SOT323-5	1.71	1.47	1.20
STCL132KRDEAW89	497-8497-2-ND	32,768Hz Silicon Oscillator*	SOT323-5	2124.00/3,000		
STCL132KWDEAW89	497-8382-1-ND	32,768Hz Silicon Oscillator*	SC70-5	1.71	1.47	1.20
STCL132KWDEAW89	497-8382-2-ND	32,768Hz Silicon Oscillator*	SC70-5	2124.00/3,000		
STCS05ADR	497-6837-1-ND	0.5A max. Constant Current LED Dvr.*	8-SOIC	1.84	1.65	1.31
STCS05ADR	497-6837-2-ND	0.5A max. Constant Current LED Dvr.*	8-SOIC	1690.00/2,500		
STCS05DR	497-6914-1-ND	0.5A max. Constant Current LED Dvr.*	8-SOIC	1.68	1.50	1.20
STCS05DR	497-6914-2-ND	0.5A max. Constant Current LED Dvr.*	8-SOIC	1542.50/2,500		
STCS1APHR	497-6915-1-ND	1.5A max. Constant Current LED Dvr.*	8-PowerSO	4.41	3.97	3.24
STCS1APHR	497-6915-2-ND	1.5A max. Constant Current LED Dvr.*	8-PowerSO	4887.50/2,500		
STCS1APUR	497-6916-1-ND	1.5A max. Constant Current LED Dvr.*	8-DFN	4.41	3.97	3.24
STCS1APUR	497-6916-2-ND	1.5A max. Constant Current LED Dvr.*	8-DFN	5865.00/3,000		
STCS1PHR	497-5961-1-ND	1.5A max. Constant Current LED Dvr.*	8-PowerSO	3.13	2.68	2.19
STCS1PHR	497-5961-2-ND	1.5A max. Constant Current LED Dvr.*	8-PowerSO	3015.00/2,500		
STCS1PUR	497-5962-1-ND	1.5A Constant Current LED Driver*	8-DFN	3.19	2.81	2.38
STCS1PUR	497-5962-2-ND	1.5A Constant Current LED Driver*	8-DFN	3618.00/3,000		
STCS2ASPR	497-6917-1-ND	2A max. Constant Current LED Driver*	10-PowerSO	5.16	4.65	3.79
STCS2ASPR	497-6917-2-ND	2A max. Constant Current LED Driver*	10-PowerSO	1713.00/600		
STCS2SPR	497-6560-1-ND	2A max. Constant Current LED Driver*	10-PowerSO	3.90	3.51	2.86
STCS2SPR	497-6560-2-ND	2A max. Constant Current LED Driver*	10-PowerSO	1294.80/600		
STLD20CP1PQR	497-6924-1-ND	Power Management for White LED and Camera Flash*	16-QFN	2.63	2.25	1.84
STLD20CP1PQR	497-6924-2-ND	Power Management for White LED and Camera Flash*	16-QFN	3039.00/3,000		
STLD40DPUR	497-8927-1-ND	White LED Power Supply* ***NEW!***	8-QFN	2.21	1.89	1.55
STLD40DPUR	497-8927-2-ND	White LED Power Supply* ***NEW!***	8-QFN	2553.00/3,000		
STLQ50C18R	497-5815-1-ND	1.8V, LDO Linear Voltage Regulator*	SOT-323-5	.96	.83	.66
STLQ50C18R	497-5815-2-ND	1.8V, LDO Linear Voltage Regulator*	SOT-323-5	948.00/3,000		
STLQ50C25R	497-5816-1-ND	2.5V, 50mA LDO Linear Regulator*	SOT-323-5	.96	.83	.66
STLQ50C25R	497-5816-2-ND	2.5V, 50mA LDO Linear Regulator*	SOT-323-5	948.00/3,000		
STLQ50C33R	497-5817-1-ND	3.3V, 50mA LDO Linear Regulator*	SOT-323-5	.96	.83	.66
STLQ50C33R	497-5817-2-ND	3.3V, 50mA LDO Linear Regulator*	SOT-323-5	948.00/3,000		
STLQ50C50R	497-5818-1-ND	5.0V, 50mA LDO Linear Regulator*	SOT-323-5	1.95	1.68	1.37
STLQ50C50R	497-5818-2-ND	5.0V, 50mA LDO Linear Regulator*	SOT-323-5	2256.00/3,000		
STLQ50C-R	497-5819-1-ND	Adj., LDO Voltage Regulator*	SOT-323-5	1.06	.92	.73
STLQ50C-R	497-5819-2-ND	Adj., LDO Voltage Regulator*	SOT-323-5	1053.00/3,000		
STM706AM6F	497-10438-1-ND	5V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM706AM6F	497-10438-2-ND	5V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM708AM6F	497-10442-1-ND	5V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM708AM6F	497-10442-2-ND	5V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM706PAM6F	497-10439-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM706PAM6F	497-10439-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM706RAM6F	497-10440-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM706RAM6F	497-10440-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM706TAM6F	497-10441-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM706TAM6F	497-10441-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM708RAM6F	497-10443-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM708RAM6F	497-10443-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM708SAM6F	497-10444-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM708SAM6F	497-10444-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM708TAM6F	497-10445-1-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1.86	1.67	1.33
STM708TAM6F	497-10445-2-ND	3V MPU Supervisor* ***NEW!***	8-SOIC	1712.50/2,500		
STM1001LWX6F	497-4797-1-ND	4.63V Reset Circuit	SOT-23	.67	.54	.40
STM1001LWX6F	497-4797-2-ND	4.63V Reset Circuit	SOT-23	564.00/3,000		
STM1001MWX6F	497-4658-1-ND	4.63V Reset Circuit	SOT-23	.79	.68	.54
STM1001MWX6F	497-4658-2-ND	4.63V Reset Circuit	SOT-23	780.00/3,000		
STM1001RWX6F	497-7490-1-ND	2.63V Reset Circuit*	SOT-23	.80	.64	.48
STM1001RWX6F	497-7490-2-ND	2.63V Reset Circuit*	SOT-23	675.00/3,000		
STM1001SWX6F	497-6568-1-ND	2.93V Reset Circuit*	SOT-23	.67	.54	.40
STM1001SWX6F	497-6568-2-ND	2.93V Reset Circuit*	SOT-23	564.00/3,000		
STM1001TWX6F	497-6569-1-ND	3.08V Reset Circuit*	SOT-23	.67	.54	.40
STM1001TWX6F	497-6569-2-ND	3.08V Reset Circuit*	SOT-23	564.00/3,000		
STM1061N16WX6F	497-4949-1-ND	1.6V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N16WX6F	497-4949-2-ND	1.6V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N17WX6F	497-4950-1-ND	1.7V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N17WX6F	497-4950-2-ND	1.7V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N19WX6F	497-7491-1-ND	1.9V Low Power Voltage Detector*	SOT-23	.75	.61	.46
STM1061N19WX6F	497-7491-2-ND	1.9V Low Power Voltage Detector*	SOT-23	636.00/3,000		
STM1061N21WX6F	497-7492-1-ND	2.1V Low Power Voltage Detector*	SOT-23	.70	.60	.48
STM1061N21WX6F	497-7492-2-ND	2.1V Low Power Voltage Detector*	SOT-23	687.00/3,000		
STM1061N22WX6F	497-4951-1-ND	2.2V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N22WX6F	497-4951-2-ND	2.2V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N23WX6F	497-4952-1-ND	2.3V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N23WX6F	497-4952-2-ND	2.3V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N25WX6F	497-6181-1-ND	2.5V Low Power Voltage Detector*	SOT-23	.75	.61	.46
STM1061N26WX6F	497-4953-1-ND	2.6V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N26WX6F	497-4953-2-ND	2.6V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N27WX6F	497-4954-1-ND	2.7V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N27WX6F	497-4954-2-ND	2.7V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N28WX6F	497-4955-1-ND	2.8V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N28WX6F	497-4955-2-ND	2.8V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N29WX6F	497-4956-1-ND	2.9V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N29WX6F	497-4956-2-ND	2.9V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N31WX6F	497-4957-1-ND	3.1V Low Power Voltage Detector	SOT-23	.75	.61	.46

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.)

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM1061N31WX6F	497-4957-2-ND	3.1V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N34WX6F	497-4958-1-ND	3.4V Low Power Voltage Detector	SOT-23	.75	.61	.46
STM1061N34WX6F	497-4958-2-ND	3.4V Low Power Voltage Detector	SOT-23	636.00/3,000		
STM1061N38WX6F	497-5315-1-ND	1.6V Low Power Voltage Detector*	SOT-23	.79	.63	.48
STM1061N38WX6F	497-5315-2-ND	1.6V Low Power Voltage Detector*	SOT-23	666.00/3,000		
STM1403ASMQ6F	497-8175-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.30	5.67	4.62
STM1403ASMQ6F	497-8175-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	8379.00/3,000		
STM1403ATNQ6F	497-8176-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.30	5.67	4.62
STM1403ATNQ6F	497-8176-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	8379.00/3,000		
STM1403ATOQ6F	497-8177-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.30	5.67	4.62
STM1403ATOQ6F	497-8177-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	8379.00/3,000		
STM1403CSMQ6F	497-8178-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	5.55	5.00	4.07
STM1403CSNQ6F	497-8179-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	5.55	5.00	4.07
STM1403CTNQ6F	497-8180-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	5.55	5.00	4.07
STM1404ARNIQ6F	497-8181-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.96	6.30	5.25
STM1404ARNIQ6F	497-8181-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	10239.00/3,000		
STM1404ASMJQ6F	497-8182-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.63	6.00	5.00
STM1404ATOHQ6F	497-8183-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	5.43	4.92	4.10
STM1404ATOHQ6F	497-8183-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	8850.00/3,000		
STM1404CSMJQ6F	497-8184-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	7.05	6.35	5.17
STM1404CSNIQ6F	497-8185-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	6.82	6.18	5.15
STM1404CSNIQ6F	497-8185-2-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	10035.00/3,000		
STM1404CSNJQ6F	497-8186-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	7.05	6.35	5.17
STM1404CTMJQ6F	497-8187-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	7.05	6.35	5.17
STM1404CTNJQ6F	497-8188-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	7.05	6.35	5.17
STM1404CTOCQ6F	497-8189-1-ND	3V FIPS-140 Supervisor with Battery Switchover	16-QFN	7.05	6.35	5.17
STM1810LWX7F	497-4959-1-ND	4.62V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1810LWX7F	497-4959-2-ND	4.62V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1810MWX7F	497-4960-1-ND	4.37V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1810MWX7F	497-4960-2-ND	4.37V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1811LWX7F	497-4961-1-ND	4.62V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1811LWX7F	497-4961-2-ND	4.62V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1811MWX7F	497-4962-1-ND	4.37V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1811MWX7F	497-4962-2-ND	4.37V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1812LWX7F	497-4963-1-ND	4.62V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1812LWX7F	497-4963-2-ND	4.62V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1812MWX7F	497-4964-1-ND	4.37V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1812MWX7F	497-4964-2-ND	4.37V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1813LWX7F	497-4965-1-ND	4.62V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1813LWX7F	497-4965-2-ND	4.62V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM1813MWX7F	497-4966-1-ND	4.37V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1813MWX7F	497-4966-2-ND	4.37V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM1815RWX7F	497-4967-1-ND	2.55V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1815RWX7F	497-4967-2-ND	2.55V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1815SWX7F	497-4968-1-ND	2.88V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1815SWX7F	497-4968-2-ND	2.88V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1815TWX7F	497-4969-1-ND	3.06V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1815TWX7F	497-4969-2-ND	3.06V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1816RWX7F	497-4970-1-ND	2.55V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1816RWX7F	497-4970-2-ND	2.55V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1816SWX7F	497-4791-1-ND	2.88V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1816SWX7F	497-4791-2-ND	2.88V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1816TWX7F	497-4793-1-ND	3.06V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1816TWX7F	497-4793-2-ND	3.06V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1817RWX7F	497-4971-1-ND	2.55V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1817RWX7F	497-4971-2-ND	2.55V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1818RWX7F	497-4974-1-ND	2.55V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1818RWX7F	497-4974-2-ND	2.55V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM1818TWX7F	497-4796-1-ND	3.06V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1818TWX7F	497-4796-2-ND	3.06V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM6315LBW13F	497-5316-1-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1.04	.89	.76
STM6315LBW13F	497-5316-2-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1194.00/3,000		
STM6315MDW13F	497-6028-1-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1.20	1.08	.86
STM6315MDW13F	497-6028-2-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1323.00/3,000		
STM1816TWX7F	497-4793-1-ND	3.06V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1816TWX7F	497-4793-2-ND	3.06V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1817RWX7F	497-4971-1-ND	2.55V Low Power Reset Circuit	SOT-23	.77	.67	.53
STM1817RWX7F	497-4971-2-ND	2.55V Low Power Reset Circuit	SOT-23	765.00/3,000		
STM1818RWX7F	497-4974-1-ND	2.55V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1818RWX7F	497-4974-2-ND	2.55V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM1818TWX7F	497-4796-1-ND	3.06V Low Power Reset Circuit	SOT-23	.93	.81	.64
STM1818TWX7F	497-4796-2-ND	3.06V Low Power Reset Circuit	SOT-23	921.00/3,000		
STM6315LBW13F	497-5316-1-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1.04	.89	.76
STM6315LBW13F	497-5316-2-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1194.00/3,000		
STM6315MDW13F	497-6028-1-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1.20	1.08	.86
STM6315MDW13F	497-6028-2-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1323.00/3,000		
STM6315RAW13F	497-6122-1-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1.04	.93	.74
STM6315RAW13F	497-6122-2-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1194.00/3,000		
STM6315RBW13F	497-5126-1-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1.08	.97	.77
STM6315RBW13F	497-5126-2-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1194.00/3,000		
STM6315RDW13F	497-5127-1-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1.08	.97	.77
STM6315RDW13F	497-5127-2-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1194.00/3,000		
STM6315RGW13F	497-6123-1-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1.04	.93	.74
STM6315RGW13F	497-6123-2-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1194.00/3,000		
STM6315SDW13F	497-4975-1-ND	2.93V Open Drain MPU Reset	SOT-143-4	1.01	.91	.72
STM6315SDW13F	497-4975-2-ND	2.93V Open Drain MPU Reset	SOT-143-4	1116.00/3,000		
STM6321LWY6F	497-4659-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.95	1.68	1.37
STM6321LWY6F	497-4659-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2259.00/3,000		
STM6321MAWY6F	497-6170-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.17	1.86	1.52
STM6321MAWY6F	497-6170-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2511.00/3,000		
STM6321MWY6F	497-4788-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.81	1.18	.90
STM6321MWY6F	497-4788-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2259.00/3,000		
STM6321RWY6F	497-4660-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.95	1.68	1.37
STM6321RWY6F	497-4660-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2259.00/3,000		
STM6321SWY6F	497-6927-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.52	1.36	1.08
STM6321SWY6F	497-6927-2-ND	2.93 Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1680.00/3,000		
STM6321TWY6F	497-4661-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.17	1.86	1.52
STM6321TWY6F	497-4661-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2511.00/3,000		
STM6322LWY6F	497-7993-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.52	1.36	1.08
STM6322LWY6F	497-7993-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1680.00/3,000		
STM6322MWY6F	497-4662-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.32	1.18	.94
STM6322MWY6F	497-4662-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1680.00/3,000		
STM6322RWY6F	497-6928-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.52	1.36	1.08
STM6322RWY6F	497-6928-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1680.00/3,000		
STM6322SWY6F	497-4663-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.95	1.68	1.37
STM6322SWY6F	497-4663-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2259.00/3,000		
STM6322TWY6F	497-4798-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.79	1.61	1.28
STM6322TWY6F	497-4798-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1983.00/3,000		
STM6710DWB6F	497-10354-1-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1.80	1.61	1.28
STM6710DWB6F	497-10354-2-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1986.00/3,000		
STM6710FWB6F	497-10434-1-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1.80	1.61	1.28
STM6710FWB6F	497-10434-2-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1986.00/3,000		
STM6710JWB6F	497-10435-1-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1.80	1.61	1.28
STM6710JWB6F	497-10435-2-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1986.00/3,000		
STM6710KWB6F	497-10436-1-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1.80	1.61	1.28
STM6710KWB6F	497-10436-2-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1986.00/3,000		
STM6710LWB6F	497-10437-1-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1.80	1.61	1.28
STM6710LWB6F	497-10437-2-ND	Triple/Quad Voltage Supervisor* ***NEW!***	SOT-23-6	1986.00/3,000		
STM6717SDWY6F	497-6929-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2.39	2.05	1.68
STM6717SDWY6F	497-6929-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6717SFWY6F	497-5010-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.90	1.64	1.34
STM6717SFWY6F	497-5010-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	2202.00/3,000		
STM6717SJWY6F	497-6930-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2.39	2.05	1.68
STM6717SJWY6F	497-6930-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6717SVWY6F	497-5181-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	2.39	2.05	1.68
STM6717SVWY6F	497-5181-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6717SYWY6F	497-5182-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2.39	2.05	1.68
STM6717SYWY6F	497-5182-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6717TGGWY6F	497-7019-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	1.90	1.64	1.34
STM6717TGGWY6F	497-7019-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2202.00/3,000		
STM6717TGWY6F	497-5183-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2.39	2.05	1.68
STM6717TGWY6F	497-5183-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6717TWWY6F	497-5011-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.90	1.64	1.34
STM6717TWWY6F	497-5011-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	2202.00/3,000		
STM6717TZWY6F	497-5184-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2.39	2.05	1.68
STM6717TZWY6F	497-5184-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2766.00/3,000		
STM6718SFWY6F	497-5012-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.90	1.64	1.34
STM6718SFWY6F	497-5012-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	2202.00/3,000		
STM6718SYWY6F	497-7994-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	1.90	1.64	1.34
STM6718SYWY6F	497-7994-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2202.00/3,000		
STM6718TGWY6F	497-5186-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-5	2.39	2.05	1.68
STM6718TGWY6F	497-5186-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-5	2766.00/3,000		
STM6718TWWY6F	497-5013-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.80	1.61	1.28
STM6718TZWY6F	497-7995-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	1.90	1.64	1.34

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM6718TZWY6F	497-7995-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-5	2202.00/3,000		
STM6719SFWB6F	497-5014-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.90	1.64	1.34
STM6719SFWB6F	497-5014-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	2202.00/3,000		
STM6719SHWB6F	497-5015-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.80	1.61	1.28
STM6719SHWB6F	497-5015-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	2202.00/3,000		
STM6719SYWB6F	497-7996-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.90	1.64	1.34
STM6719SYWB6F	497-7996-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2202.00/3,000		
STM6719TGWB6F	497-5188-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2.57	2.21	1.81
STM6719TGWB6F	497-5188-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2976.00/3,000		
STM6719TWWB6F	497-5016-1-ND	Dual/Triple Ultra Low Volt. Supervisor	SOT-23-6	1.90	1.64	1.34
STM6719TWWB6F	497-5016-2-ND	Dual/Triple Ultra Low Volt. Supervisor	SOT-23-6	2202.00/3,000		
STM6719TZWB6F	497-5389-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	1.91	1.64	1.34
STM6719TZWB6F	497-5389-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2211.00/3,000		
STM6720SFWB6F	497-5017-1-ND	Dual/Triple Ultra Low Volt. Supervisor	SOT-23-6	1.90	1.64	1.34
STM6720SFWB6F	497-5017-2-ND	Dual/Triple Ultra Low Volt. Supervisor	SOT-23-6	2202.00/3,000		
STM6720SVWB6F	497-5189-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2.57	2.21	1.81
STM6720SVWB6F	497-5189-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2976.00/3,000		
STM6720SYWB6F	497-7997-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	1.90	1.64	1.34
STM6720SYWB6F	497-7997-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2202.00/3,000		
STM6720TGWB6F	497-5190-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2.57	2.21	1.81
STM6720TGWB6F	497-5190-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT-23-6	2976.00/3,000		
STM6777SFWB6F	497-7998-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6777SFWB6F	497-7998-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6777SYWB6F	497-7999-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6777SYWB6F	497-7999-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6777TGWB6F	497-8000-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6777TGWB6F	497-8000-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6777TWWB6F	497-8001-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6777TWWB6F	497-8001-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6777TZWB6F	497-8002-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6777TZWB6F	497-8002-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6778SFWB6F	497-8003-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6778SFWB6F	497-8003-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6778SVWB6F	497-8004-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6778SVWB6F	497-8004-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6778TGWB6F	497-8005-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6778TGWB6F	497-8005-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6778TWWB6F	497-8006-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6778TWWB6F	497-8006-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6778TZWB6F	497-8007-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6778TZWB6F	497-8007-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6779LWB6F	497-8008-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6779LWB6F	497-8008-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6779SWB6F	497-5249-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.44	2.15	1.82
STM6779SWB6F	497-5249-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6779TWB6F	497-8009-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6779TWB6F	497-8009-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6779VWB6F	497-8010-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6779VWB6F	497-8010-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6779YWB6F	497-8011-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6779YWB6F	497-8011-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6780LWB6F	497-8012-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6780LWB6F	497-8012-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6780SWB6F	497-5250-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.44	2.15	1.82
STM6780SWB6F	497-5250-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6780TWB6F	497-8013-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6780TWB6F	497-8013-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6780YWB6F	497-8015-1-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2.39	2.05	1.68
STM6780YWB6F	497-8015-2-ND	Dual/Triple Ultra Low Volt. Supervisor*	SOT-23-6	2766.00/3,000		
STM6821LWY6F	497-6931-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.52	1.36	1.08
STM6821LWY6F	497-6931-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1680.00/3,000		
STM6821MWY6F	497-4801-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.84	1.20	.92
STM6821RWY6F	497-8016-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.52	1.36	1.08
STM6821RWY6F	497-8016-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1680.00/3,000		
STM6821SWY6F	497-4800-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.84	1.20	.92
STM6821TWY6F	497-4976-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6821TWY6F	497-4976-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6822LWY6F	497-4664-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.17	1.86	1.52
STM6822LWY6F	497-4664-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2511.00/3,000		
STM6822MWY6F	497-6570-1-ND	4.39V Supervisor with Watchdog Timer/Reset*	SOT-23-5	2.17	1.86	1.52
STM6822MWY6F	497-6570-2-ND	4.39V Supervisor with Watchdog Timer/Reset*	SOT-23-5	2511.00/3,000		
STM6822RWY6F	497-4665-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.17	1.86	1.52
STM6822RWY6F	497-4665-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2511.00/3,000		
STM6822SWY6F	497-4799-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.17	1.86	1.52
STM6822SWY6F	497-4799-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2511.00/3,000		

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM6822TWY6F	497-4666-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.17	1.86	1.52
STM6822ZWY6F	497-8386-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.17	1.86	1.52
STM6822ZWY6F	497-8386-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2511.00/3,000		
STM6823LWY6F	497-5192-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.21	1.89	1.55
STM6823LWY6F	497-5192-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2553.00/3,000		
STM6823MWY6F	497-4794-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6823MWY6F	497-4794-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6823RWY6F	497-8017-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.21	1.89	1.55
STM6823RWY6F	497-8017-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2553.00/3,000		
STM6823SWY6F	497-4790-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6823SWY6F	497-4790-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6823TJWY6F	497-8018-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.98	1.71	1.39
STM6823TJWY6F	497-8018-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2295.00/3,000		
STM6823TWY6F	497-4977-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6823TWY6F	497-4977-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6824LWY6F	497-4789-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6824LWY6F	497-4789-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6824MWY6F	497-8019-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.90	1.64	1.34
STM6824MWY6F	497-8019-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2202.00/3,000		
STM6824RWY6F	497-4784-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.21	1.89	1.55
STM6824RWY6F	497-4784-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2553.00/3,000		
STM6824SWY6F	497-4978-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6824SWY6F	497-4978-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6824TWY6F	497-4787-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6824TWY6F	497-4787-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6825LWY6F	497-5193-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2.21	1.89	1.55
STM6825MWY6F	497-4786-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.84	1.20	.92
STM6825RWY6F	497-8020-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.70	1.53	1.21
STM6825RWY6F	497-8020-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1881.00/3,000		
STM6825SWY6F	497-4979-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2.21	1.89	1.55
STM6825SWY6F	497-4979-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2553.00/3,000		
STM6904PWEDS6F	497-8281-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6904PWEDS6F	497-8281-2-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	3404.00/4,000		
STM6905PWEDS6F	497-7020-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905PWEDS6F	497-7020-2-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	3968.00/4,000		
STM690AM6F	497-3824-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.67	2.29	1.87
STM690AM6F	497-3824-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2572.50/2,500		
STM690RM6F	497-3825-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.29	1.87
STM690RM6F	497-3825-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2572.50/2,500		
STM690SM6F	497-3826-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.29	1.87
STM690SM6F	497-3826-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2572.50/2,500		
STM690TM6F	497-3827-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.29	1.87
STM690TM6F	497-3827-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2572.50/2,500		
STM692AM6F	497-3828-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.62	2.25	1.84
STM692AM6F	497-3828-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2527.50/2,500		
STM703M6F	497-3829-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.58	2.22	1.81
STM703M6F	497-3829-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2490.00/2,500		
STM704M6F	497-3830-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.58	2.22	1.81
STM704M6F	497-3830-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2490.00/2,500		
STM704RDS6E	497-5390-5-ND	3V Supervisor with Battery Switchover*	8-TSSOP	2.52	2.25	1.85
STM704RM6F	497-3831-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.58	2.22	1.81
STM704RM6F	497-3831-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2490.00/2,500		
STM704SD6F	497-5317-1-ND	3V Supervisor with Battery Switchover*	8-TSSOP	3.47	3.12	2.55
STM704SD6F	497-5317-2-ND	3V Supervisor with Battery Switchover*	8-TSSOP	6144.00/4,000		
STM704SM6F	497-3832-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.58	2.22	1.81
STM704SM6F	497-3832-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2490.00/2,500		
STM704TDS6F	497-5318-1-ND	3V Supervisor with Battery Switchover*	8-TSSOP	2.70	2.43	1.98
STM704TDS6F	497-5318-2-ND	3V Supervisor with Battery Switchover*	8-TSSOP	5192.00/4,000		
STM704TM6F	497-3833-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.58	2.22	1.81
STM704TM6F	497-3833-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2490.00/2,500		
STM705M6F	497-3834-1-ND	5V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM705M6F	497-3834-2-ND	5V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM706M6F	497-3835-1-ND	5V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM706M6F	497-3835-2-ND	5V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM706PM6F	497-3836-1-ND	3V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM706PM6F	497-3836-2-ND	3V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM706RM6F	497-3837-1-ND	3V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM706RM6F	497-3837-2-ND	3V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM706SDS6F	497-4981-1-ND	3V Supervisor with Watchdog	8-TSSOP	2.14	1.84	1.50

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STM706SDS6F	497-4981-2-ND	3V Supervisor with Watchdog	8-TSSOP	3540.00/4,000		
STM706SM6F	497-3838-1-ND	3V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM706SM6F	497-3838-2-ND	3V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM706TM6F	497-3839-1-ND	3V Supervisor with Watchdog	8-SOIC	1.78	1.53	1.25
STM706TM6F	497-3839-2-ND	3V Supervisor with Watchdog	8-SOIC	1715.00/2,500		
STM707M6F	497-3840-1-ND	5V Supervisor	8-SOIC	1.78	1.53	1.25
STM707M6F	497-3840-2-ND	5V Supervisor	8-SOIC	1715.00/2,500		
STM708M6E	497-10341-5-ND	5V Supervisor* ***NEW!***	8-SOIC	1.57	1.43	1.15
STM708RM6F	497-3842-1-ND	3V Supervisor	8-SOIC	1.78	1.53	1.25
STM708RM6F	497-3842-2-ND	3V Supervisor	8-SOIC	1715.00/2,500		
STM708SDS6F	497-4982-1-ND	3V Supervisor	8-TSSOP	2.76	2.37	1.94
STM708SDS6F	497-4982-2-ND	3V Supervisor	8-TSSOP	4256.00/4,000		
STM708SM6F	497-3843-1-ND	3V Supervisor	8-SOIC	1.89	1.70	1.35
STM708SM6F	497-3843-2-ND	3V Supervisor	8-SOIC	1742.50/2,500		
STM708TM6F	497-3844-1-ND	3V Supervisor	8-SOIC	1.78	1.53	1.25
STM708TM6F	497-3844-2-ND	3V Supervisor	8-SOIC	1715.00/2,500		
STM795RM6F	497-3845-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.23	2.91	2.37
STM795RM6F	497-3845-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3577.50/2,500		
STM795SM6F	497-3846-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.23	2.91	2.37
STM795SM6F	497-3846-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3577.50/2,500		
STM795TM6F	497-3847-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.23	2.91	2.37
STM795TM6F	497-3847-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3577.50/2,500		
STM802LM6F	497-3848-1-ND	5V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM802LM6F	497-3848-2-ND	5V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM802MM6F	497-3849-1-ND	5V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM802MM6F	497-3849-2-ND	5V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM802RM6F	497-3850-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM802RM6F	497-3850-2-ND	3V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM802SM6F	497-3851-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM802SM6F	497-3851-2-ND	3V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM804RM6F	497-3853-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM804RM6F	497-3853-2-ND	3V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM804SM6F	497-3854-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM804SM6F	497-3854-2-ND	3V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM804TM6F	497-3855-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.81	3.43	2.80
STM804TM6F	497-3855-2-ND	3V Supervisor with Battery Switchover	8-SOIC	4220.00/2,500		
STM805LM6F	497-3856-1-ND	5V Supervisor with Battery Switchover	8-SOIC	3.09	2.65	2.17
STM805LM6F	497-3856-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2980.00/2,500		
STM805RM6F	497-3857-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.09	2.65	2.17
STM805RM6F	497-3857-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2980.00/2,500		
STM805SM6F	497-3858-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.09	2.65	2.17
STM805SM6F	497-3858-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2980.00/2,500		
STM805TM6F	497-3859-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.09	2.65	2.17
STM805TM6F	497-3859-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2980.00/2,500		
STM806RM6F	497-3860-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.41	3.07	2.50
STM806RM6F	497-3860-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3777.50/2,500		
STM806SM6F	497-3861-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.41	3.07	2.50
STM806SM6F	497-3861-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3777.50/2,500		
STM806TM6F	497-3862-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.41	3.07	2.50
STM806TM6F	497-3862-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3777.50/2,500		
STM809LWX6F	497-3378-1-ND	4.63V Reset Circuit*	SOT-23	.62	.50	.38
STM809LWX6F	497-3378-2-ND	4.63V Reset Circuit*	SOT-23	525.00/3,000		
STM809MWX6F	497-3326-1-ND	4.38V Reset Circuit*	SOT-23	.62	.50	.38
STM809MWX6F	497-3326-2-ND	4.38V Reset Circuit*	SOT-23	525.00/3,000		
STM809RWX6F	497-3327-1-ND	2.63V Reset Circuit*	SOT-23	.62	.50	.38
STM809RWX6F	497-3327-2-ND	2.63V Reset Circuit*	SOT-23	525.00/3,000		
STM809SWX6F	497-3338-1-ND	2.93V Reset Circuit*	SOT-23	.60	.48	.36
STM809SWX6F	497-3338-2-ND	2.93V Reset Circuit*	SOT-23	507.00/3,000		
STM809TWX6F	497-3339-1-ND	3.08V Reset Circuit*	SOT-23	.61	.49	.37
STM809TWX6F	497-3339-2-ND	3.08V Reset Circuit*	SOT-23	516.00/3,000		
STM810LWX6F	497-3340-1-ND	4.63V Reset Circuit*	SOT-23	.62	.50	.38
STM810LWX6F	497-3340-2-ND	4.63V Reset Circuit*	SOT-23	525.00/3,000		
STM810MWX6F	497-3341-1-ND	4.38V Reset Circuit*	SOT-23	.60	.48	.36
STM810MWX6F	497-3341-2-ND	4.38V Reset Circuit*	SOT-23	525.00/3,000		
STM810RWX6F	497-3342-1-ND	2.63V Reset Circuit	SOT-23	.62	.50	.38
STM810SWX6F	497-3343-1-ND	2.93V Reset Circuit*	SOT-23	.62	.50	.38
STM810SWX6F	497-3343-2-ND	2.93V Reset Circuit*	SOT-23	525.00/3,000		
STM810TWX6F	497-3344-1-ND	3.08V Reset Circuit*	SOT-23	.60	.48	.36
STM810TWX6F	497-3344-2-ND	3.08V Reset Circuit*	SOT-23	507.00/3,000		
STM811LW16F	497-3345-1-ND	4.63V Reset Circuit*	SOT-143-4	.84	.73	.58
STM811LW16F	497-3345-2-ND	4.63V Reset Circuit*	SOT-143-4	831.00/3,000		
STM811MW16F	497-3346-1-ND	4.38V Reset Circuit*	SOT-143-4	.81	.70	.55
STM811MW16F	497-3346-2-ND	4.38V Reset Circuit*	SOT-143-4	831.00/3,000		
STM811RW16F	497-3347-1-ND	2.63V Reset Circuit*	SOT-143-4	.84	.73	.58
STM811RW16F	497-3347-2-ND	2.63V Reset Circuit*	SOT-143-4	831.00/3,000		
STM811SW16F	497-3348-1-ND	2.93V Reset Circuit*	SOT-143-4	.81	.70	.55
STM811SW16F	497-3348-2-ND	2.93V Reset Circuit*	SOT-143-4	795.00/3,000		
STM811TW16F	497-3349-1-ND	3.08V Reset Circuit*	SOT-143-4	.84	.73	.58
STM811TW16F	497-3349-2-ND	3.08V Reset Circuit*	SOT-143-4	831.00/3,000		
STM812LW16F	497-3350-1-ND	4.63V Reset Circuit*	SOT-143-4	.81	.70	.55
STM812LW16F	497-3350-2-ND	4.63V Reset Circuit*	SOT-143-4	831.00/3,000		
STM812MW16F	497-3351-1-ND	4.38V Reset Circuit*	SOT-143-4	.84	.73	.58
STM812MW16F	497-3351-2-ND	4.38V Reset Circuit*	SOT-143-4	831.00/3,000		
STM812RW16F	497-3352-1-ND	2.63V Reset Circuit*	SOT-143-4	.81	.70	.55
STM812RW16F	497-3352-2-ND	2.63V Reset Circuit*	SOT-143-4	831.00/3,000		
STM812SW16F	497-3353-1-ND	2.93V Reset Circuit*	SOT-143-4	.84	.73	.58
STM812SW16F	497-3353-2-ND	2.93V Reset Circuit*	SOT-143-4	831.00/3,000		
STM812TW16F	497-3354-1-ND	3.08V Reset Circuit*	SOT-143-4	.84	.73	.58
STM812TW16F	497-3354-2-ND	3.08V Reset Circuit*	SOT-143-4	831.00/3,000		
STM813LM6F	497-3863-1-ND	5V Supervisor with Watchdog*	8-SOIC	1.78	1.53	1.25
STM813LM6F	497-3863-2-ND	5V Supervisor with Watchdog*	8-SOIC	1715.00/2,500		
STM817LM6F	497-3864-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	3.09	2.65	2.17
STM817LM6F	497-3864-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	2980.00/2,500		
STM817MM6F	497-3865-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	3.09	2.65	2.17
STM817MM6F	497-3865-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	2980.00/2,500		
STM818LM6F	497-3866-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	3.31	2.85	2.33
STM818LM6F	497-3866-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	3195.00/2,500		
STM818MM6F	497-3867-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	3.31	2.85	2.33
STM818MM6F	497-3867-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	3195.00/2,500		
STM819LM6F	497-3868-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	2.67	2.29	1.87
STM819LM6F	497-3868-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	2572.50/2,500		
STM819MM6F	497-3869-1-ND	5V Supervisor with Battery Switchover*	8-SOIC	2.67	2.29	1.87
STM819MM6F	497-3869-2-ND	5V Supervisor with Battery Switchover*	8-SOIC	2572.50/2,500		
STM6503VEAADG6F	497-10053-1-ND	Dual Pushbutton Smart Reset™* ***NEW!***	8-TDFN	1.60	1.43	1.14
STM6503VEAADG6F	497-10053-2-ND	Dual Pushbutton Smart Reset™* ***NEW!***	8-TDFN	1764.00/3,000		

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STM6513REIEDG6F	497-10124-1-ND	2.63V Smart Reset™* ***NEW!***	8-TDFN	1.91	1.64	1.34
STM6513REIEDG6F	497-10124-2-ND	2.63V Smart Reset™* ***NEW!***	8-TDFN	2211.00/3,000		
STM6513SEIEDG6F	497-10125-1-ND	2.93V Smart Reset™* ***NEW!***	8-TDFN	1.91	1.64	1.34
STM6513SEIEDG6F	497-10125-2-ND	2.93V Smart Reset™* ***NEW!***	8-TDFN	2211.00/3,000		
STM6513VEIEDG6F	497-10126-1-ND	1.58V Smart Reset™* ***NEW!***	8-TDFN	1.91	1.64	1.34
STM6513VEIEDG6F	497-10126-2-ND	1.58V Smart Reset™* ***NEW!***	8-TDFN	2211.00/3,000		
STM6520AQRRDG9F	497-10127-1-ND	Dual Pushbutton Smart Reset™* ***NEW!***	8-TDFN	1.91	1.64	1.34
STM6520AQRRDG9F	497-10127-2-ND	Dual Pushbutton Smart Reset™* ***NEW!***	8-TDFN	2211.00/3,000		
STM6601AQ2BDM6F	497-10128-1-ND	3.3V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601AQ2BDM6F	497-10128-2-ND	3.3V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601AU2DDM6F	497-10129-1-ND	3.5V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601AU2DDM6F	497-10129-2-ND	3.5V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601BM2DDM6F	497-10130-1-ND	3.1V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601BM2DDM6F	497-10130-2-ND	3.1V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601BS2BDM6F	497-10131-1-ND	3.4V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601BS2BDM6F	497-10131-2-ND	3.4V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601CM2DDM6F	497-10132-1-ND	3.1V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601CM2DDM6F	497-10132-2-ND	3.1V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601CQ2BDM6F	497-10133-1-ND	3.3V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601CQ2BDM6F	497-10133-2-ND	3.3V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6601DS2BDM6F	497-10154-1-ND	3.4V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3.13	2.68	2.19
STM6601DS2BDM6F	497-10154-2-ND	3.4V Smart Pushbutton On/Off Ctrlr with Smart Reset™* ***NEW!***	12-TDFN	3618.00/3,000		
STM6904SFEDS6F	497-8722-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6904SYEDS6F	497-8723-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6904TGEDS6F	497-8724-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6904TGEDS6F	497-8724-2-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	3404.00/4,000		
STM6904TWEDS6F	497-8725-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6904TZEDS6F	497-8726-1-ND	Quad, Ultralow Voltage Supervisor with Pushbutton Reset*	8-MSOP	2.21	1.89	1.55
STM6905SFEDS6F	497-8727-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905SYEDS6F	497-8728-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905TGEDS6F	497-8729-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905TGEDS6F	497-8729-2-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	3968.00/4,000		
STM6905TWEDS6F	497-8730-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905TZEDS6F	497-8731-1-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	2.57	2.21	1.81
STM6905TZEDS6F	497-8731-2-ND	Quintuple, Ultralow Voltage Supervisor*	8-MSOP	3968.00/4,000		
STOD02PUR	497-8500-1-ND	Dual DC/DC Converter for AMOLED Display*	12-DFN	3.62	3.27	2.66
STOD02PUR	497-8500-2-ND	Dual DC/DC Converter for AMOLED Display*	12-DFN	4821.00/3,000		
STOD02TPUR	497-8524-1-ND	DC/DC Converter for AMOLED Display*	12-DFN	3.62	3.27	2.66
STOD02TPUR	497-8524-2-ND	DC/DC Converter for AMOLED Display*	12-DFN	4821.00/3,000		
STOD1412PMR	497-6939-1-ND	Step-Up and Inverting DC/DC Converter*	16-QFN	3.03	2.73	2.23
STOD1412PMR	497-6939-2-ND	Step-Up and Inverting DC/DC Converter*	16-QFN	4029.00/3,000		
STOD1812PUR	497-6839-1-ND	Power Supply for PMOLED Display Panel*	10-DFN	3.31	2.98	2.43
STOD1812PUR	497-6839-2-ND	Power Supply for PMOLED Display Panel*	10-DFN	4401.00/3,000		
STOD2540PUR	497-10155-1-ND	Power Supply for PMOLED Display Panel* ***NEW!***	8-QFN	1.80	1.61	1.28
STOD2540PUR	497-10155-2-ND	Power Supply for PMOLED Display Panel* ***NEW!***	8-QFN	1986.00/3,000		
STSR2PCD	497-5404-5-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	4.38	3.92	3.21
STSR2PCD-TR	497-2154-1-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	4.70	4.23	3.45
STSR2PCD-TR	497-2154-2-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	5202.50/2,500		
STSR2PMCD-TR	497-5405-1-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	4.70	4.23	3.45
STSR2PMCD-TR	497-5405-2-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	5202.50/2,500		
STSR3CD	497-4400-5-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4.06	3.63	2.98
STSR30D	497-6747-5-ND	Sync. Rectifier Smart Driver for Flyback*	8-SOIC	4.06	3.63	2.98
STSR30D-TR	497-2155-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4.35	3.92	3.19
STSR30D-TR	497-2155-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4817.50/2,500		
STW4102IQT	497-6840-1-ND	Dual USB/Wall Adapter Li-Ion Battery Charger*	24-QFN	3.94	3.55	2.89
STW4102IQT	497-6840-2-ND	Dual USB/Wall Adapter Li-Ion Battery Charger*	24-QFN	6984.00/4,000		
STWD100NPWY3F	497-6841-1-ND	Watchdog Timer Circuit*	SOT-23-5	1.40	1.26	1.00
STWD100NPWY3F	497-6841-2-ND	Watchdog Timer Circuit*	SOT-23-5	1545.00/3,000		
STWD100NYWY3F	497-10058-1-ND	Watchdog Timer Circuit* ***NEW!***	SOT-23-5	1.40	1.26	1.00
STWD100NYWY3F	497-10058-2-ND	Watchdog Timer Circuit* ***NEW!***	SOT-23-5	1545.00/3,000		
TL431ACDT	497-3034-1-ND	Programmable Voltage Reference*	8-SOIC	.54	.43	.29
TL431ACDT	497-3034-2-ND	Programmable Voltage Reference*	8-SOIC	305.00/2,500		
TL431ACZ	497-3035-5-ND	Programmable Voltage Reference	TO-92	.56	.44	.31
TL431ACZT	497-6765-1-ND	Programmable Voltage Reference*	TO-92	.74	.64	.51
TL431ACZT	497-6765-2-ND	Programmable Voltage Reference*	TO-92	488.00/2,000		
TL431AIDT	497-2225-1-ND	Programmable Voltage Reference	8-SOIC	.55	.44	.33
TL431AIDT	497-2225-2-ND	Programmable Voltage Reference	8-SOIC	387.50/2,500		
TL431AIYDT	497-10179-1-ND	Programmable Voltage Ref.* ***NEW!***	8-SOIC	.67	.54	.40

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

STMicroelectronics Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TL431AIYDT	497-10179-2-ND	Programmable Voltage Ref.* ***NEW!***	8-SOIC	470.00/2,500		
TL431AIZT	497-2226-1-ND	Programmable Voltage Reference	TO-92	.55	.44	.33
TL431AIZT	497-2226-2-ND	Programmable Voltage Reference	TO-92	310.00/2,000		
TL431CDT	497-3036-1-ND	Programmable Voltage Reference	8-SOIC	.81	.65	.49
TL431CZT	497-8191-1-ND	Programmable Voltage Reference*	TO-92	.75	.61	.46
TL431CZT	497-8191-2-ND	Programmable Voltage Reference*	TO-92	424.00/2,000		
TL431IDT	497-2227-1-ND	Programmable Voltage Reference	8-SOIC	.50	.40	.30
TL431IDT	497-2227-2-ND	Programmable Voltage Reference	8-SOIC	350.00/2,500		
TL431IYDT	497-10180-1-ND	Programmable Voltage Ref.* ***NEW!***	8-SOIC	.61	.49	.37
TL431IYDT	497-10180-2-ND	Programmable Voltage Ref.* ***NEW!***	8-SOIC	430.00/2,500		
TL431IZT	497-2228-1-ND	Programmable Voltage Reference	TO-92	.80	.64	.48
TL431IZT	497-2228-2-ND	Programmable Voltage Reference	TO-92	450.00/2,000		
TL1431ACDT	497-2222-1-ND	Programmable Voltage Reference	8-SOIC	.88	.76	.60
TL1431ACDT	497-2222-2-ND	Programmable Voltage Reference	8-SOIC	725.00/2,500		
TL1431ACZT	497-2223-1-ND	Programmable Voltage Reference	TO-92	.79	.69	.54
TL1431ACZT	497-2223-2-ND	Programmable Voltage Reference	TO-92	522.00/2,000		
TL1431AIDT	497-2224-1-ND	Programmable Voltage Reference	8-SOIC	1.02	.88	.70
TL1431AIDT	497-2224-2-ND	Programmable Voltage Reference	8-SOIC	837.50/2,500		
TL1431AIZT	497-7663-1-ND	Programmable Voltage Reference*	TO-92	1.02	.88	.70
TL1431AIZT	497-7663-2-ND	Programmable Voltage Reference*	TO-92	670.00/2,000		
TL1431CDT	497-7664-1-ND	Programmable Voltage Reference*	8-SOIC	.83	.72	.57
TL1431CDT	497-7664-2-ND	Programmable Voltage Reference*	8-SOIC	685.00/2,500		
TL1431CZ	497-6764-ND	Programmable Voltage Reference*	TO-92	1.03	.92	.73
TL1431CZT	497-7665-1-ND	Programmable Voltage Reference*	TO-92	.70	.60	.48
TL1431CZT	497-7665-2-ND	Programmable Voltage Reference*	TO-92	458.00/2,000		
TL1431IDT	497-4058-1-ND	Programmable Voltage Reference	8-SOIC	.88	.76	.60
TL1431IDT	497-4058-2-ND	Programmable Voltage Reference	8-SOIC	725.00/2,500		
TL1431IYDT	497-10233-1-ND	Programmable Volt. Reference* ***NEW!***	8-SOIC	1.06	.92	.73
TL1431IYDT	497-10233-2-ND	Programmable Volt. Reference* ***NEW!***	8-SOIC	877.50/2,500		
TL1431IZT	497-7666-1-ND	Programmable Voltage Reference*	TO-92	.88	.76	.60
TL1431IZT	497-7666-2-ND	Programmable Voltage Reference*	TO-92	580.00/2,000		
TL7702ACD1013TRA	497-5427-1-ND	Supply Voltage Supervisor*	8-SOIC	.80	.72	.58
TL7702ACP/A	497-5208-5-ND	Supply Voltage Supervisor*	8-Mini Dip	.74	.66	.52
TL7702AIP/A	497-5209-5-ND	Supply Voltage Supervisor*	8-Mini Dip	.74	.66	.52
TL7705AIP/A	497-5210-5-ND	5V, Supply Voltage Supervisor*	8-Mini Dip	.74	.66	.52
TS431AILT	497-2279-1-ND	Low Voltage Adj. Shunt Reference	SOT-23-5	.75	.65	.51
TS431AILT	497-2279-2-ND	Low Voltage Adj. Shunt Reference	SOT-23-5	741.00/3,000		
TS431AIYLT	497-10247-1-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	.79	.68	.54
TS431AIYLT	497-10247-2-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	780.00/3,000		
TS431AIZT	497-8104-1-ND	Low Voltage Adj. Shunt Reference*	TO-92	2.28	1.96	1.60
TS431AIZT	497-8104-2-ND	Low Voltage Adj. Shunt Reference*	TO-92	1758.00/2,000		
TS431BILT	497-8105-1-ND	Low Volt. Adj. Shunt Reference*	SOT-23-5	1.06	.92	.73
TS431BILT	497-8105-2-ND	Low Voltage Adj. Shunt Reference*	SOT-23-5	1053.00/3,000		
TS431BIYLT	497-10248-1-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	.79	.68	.54
TS431BIYLT	497-10248-2-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	780.00/3,000		
TS431ILT	497-8106-1-ND	Low Voltage Adj. Shunt Reference*	SOT-23-5	1.68	1.50	1.20
TS431ILT	497-8106-2-ND	Low Voltage Adj. Shunt Reference*	SOT-23-5	1851.00/3,000		
TS431IYLT	497-10181-1-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	.78	.63	.47
TS431IYLT	497-10181-2-ND	Low Volt. Adj. Shunt Reference* ***NEW!***	SOT-23-5	660.00/3,000		
TS431IZT	497-8107-1-ND	Low Voltage Adj. Shunt Reference*	TO-92	1.60	1.43	1.14
TS431IZT	497-8107-2-ND	Low Voltage Adj. Shunt Reference*	TO-92	1176.00/2,000		
TS432AILT	497-2280-1-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1.12	1.00	.80
TS432AILT	497-2280-2-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1236.00/3,000		
TS432ILT	497-8108-1-ND	1.24V, Adj. Shunt Voltage Reference*	SOT-23	1.00	.90	.72
TS432ILT	497-8108-2-ND	1.24V, Adj. Shunt Voltage Reference*	SOT-23	1104.00/3,000		
TS821AILT	497-8123-1-ND	1.225V, Micropower Shunt Volt. Ref.*	SOT-23	1.56	1.40	1.11
TS821AILT	497-8123-2-ND	1.225V, Micropower Shunt Volt. Ref.*	SOT-23	1722.00/3,000		
TS821BILT	497-8124-1-ND	1.225V, Micropower Shunt Volt. Ref.*	SOT-23	2.10	1.80	1.47
TS821BILT	497-8124-2-ND	1.225V, Micropower Shunt Volt. Ref.*	SOT-23	2427.00/3,000		
TS822AILT	497-8125-1-ND	2.5V, Micropower Shunt Volt. Ref.*	SOT-23	1.28	1.15	.91
TS822AILT	497-8125-2-ND	2.5V, Micropower Shunt Volt. Ref.*	SOT-23	1410.00/3,000		
TS822ILT	497-2303-1-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	1.36	1.22	.97
TS822ILT	497-2303-2-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	1500.00/3,000		
TS824ILT-1.2	497-2305-1-ND	Micropower Shunt Voltage Reference	SOT-23	2.13	1.83	1.50
TS824ILT-1.2	497-2305-2-ND	Micropower Shunt Voltage Reference	SOT-23	2466.00/3,000		
TS824ILT-2.5	497-8126-1-ND	Micropower Shunt Voltage Reference*	SOT-23	2.13	1.83	1.50
TS824ILT-2.5	497-8126-2-ND	Micropower Shunt Voltage Reference*	SOT-23	2466.00/3,000		
TS831-3IDT	497-7681-1-ND	Micropower Voltage Supervisor*	8-SOIC	1.04	.93	.74
TS831-3IDT	497-7681-2-ND	Micropower Voltage Supervisor*	8-SOIC	955.00/2,500		
TS831-3IPT	497-8127-1-ND	Micropower Voltage Supervisor*	8-TSSOP	1.04	.93	.74
TS831-3IPT	497-8127-2-ND	Micropower Voltage Supervisor*	8-TSSOP	1528.00/4,000		
TS831-4IDT	497-8128-1-ND	Micropower Voltage Supervisor*	8-SOIC	1.48	1.33	1.06
TS831-4IDT	497-8128-2-ND	Micropower Voltage Supervisor*	8-SOIC	1362.50/2,500		
TS831-4IZT	497-8129-1-ND	Micropower Volt. Supervisor*	TO-92	1.48	1.33	1.06
TS831-4IZT	497-8129-2-ND	Micropower Volt. Supervisor*	TO-92	1090.00/2,000		
TS831-5IDT	497-4070-1-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	.97	.84	.67
TS831-5IDT	497-4070-2-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	800.00/2,500		
TS831-5IZ-AP	497-8192-1-ND	Micropower Voltage Supervisor*	TO-92	1.48	1.33	1.06
TS831-5IZ-AP	497-8192-2-ND	Micropower Voltage Supervisor*	TO-92	1089.20/2,000		
TS834-5IDT	497-4071-1-ND	Micropower Voltage Supervisor Reset Active Low or High Integrated Timer	8-SOIC	1.12	1.00	.80
TS834-5IDT	497-4071-2-ND	Micropower Voltage Supervisor Reset Active Low or High Integrated Timer	8-SOIC	1030.00/2,500		
TS2431AILT	497-6772-1-ND	2.5V-24V Prog. Shunt Reference*	SOT-23	1.80	1.55	1.27
TS2431AILT	497-6772-2-ND	2.5V-24V Prog. Shunt Reference*	SOT-23	2085.00/3,000		
TS2431BILT	497-4059-1-ND	Prog. Shunt Voltage Reference	SOT-23	1.06	.92	.73
TS2431BILT	497-4059-2-ND	Prog. Shunt Voltage Reference	SOT-23	1053.00/3,000		
TS2431ILT	497-6773-1-ND	Prog. Shunt Voltage Reference*	SOT-23	.74	.59	.45
TS2431ILT	497-6773-2-ND	Prog. Shunt Voltage Reference*	SOT-23	624.00/3,000		
TS3431AILT	497-7677-1-ND	1.24V Prog. Shunt Voltage Reference*	SOT-23	.81	.65	.49
TS3431AILT	497-7677-2-ND	1.24V Prog. Shunt Voltage Reference*	SOT-23	684.00/3,000		
TS3431BILT	497-4446-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.69	.56	.42
TS3431BILT	497-4446-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	585.00/3,000		
TS3431CILT	497-4637-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.79	.68	.54
TS3431CILT	497-4637-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	780.00/3,000		
TS3431ILT	497-8096-1-ND	1.24V Prog. Shunt Volt. Reference*	SOT-23	1.12	1.00	1.12
TS3431ILT	497-8096-2-ND	1.24V Prog. Shunt Volt. Reference*	SOT-23	1236.00/3,000		
TS4040DILT-2.5	497-8193-1-ND	2.5V Micropower Shunt Voltage Ref.*	SOT-23	.88	.76	.60
TS4040DILT-2.5	497-8193-2-ND	2.5V Micropower Shunt Voltage Ref.*	SOT-23	870.00/3,000		
TS4040EILT-2.5	497-8099-1-ND	2.5V Micropower Shunt Voltage Ref.*	SOT-23	.81	.65	.49
TS4040EILT-2.5	497-8099-2-ND	2.5V Micropower Shunt Voltage Ref.*	SOT-23	684.00/3,000		
TS4041CILT-1.2	497-8100-1-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	1.00	.90	.72
TS4041CILT-1.2	497-8100-2-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	1104.00/3,000		
TS4041DILT-1.2	497-8101-1-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	1.00	.90	.72
TS4041DILT-1.2	497-8101-2-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	1104.00/3,000		
TS4041EILT-1.2	497-8102-1-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	.92	.80	.63
TS4041EILT-1.2	497-8102-2-ND	1.225V Micropower Shunt Volt. Ref.*	SOT-23	915.00/3,000		
TS4431AILT	497-5197-1-ND	Open Collector Shunt Voltage Ref.*	SOT-23-5	.83	.72	.57
TS4431AILT	497-5197-2-ND	Open Collector Shunt Voltage Ref.*	SOT-23-5	1425.00/3,000		
TS4431ILT	497-5198-1-ND	Open Collector Shunt Voltage Ref.*	SOT-23-5	.79	.68	.54
TS4431ILT	497-5198-2-ND	Open Collector Shunt Voltage Ref.*	SOT-23-5	780.00/3,000		
TS4436AICT	497-5172-1-ND	0.6V, Adjustable Shunt Voltage Ref.*	SC70-5	1.24	1.11	.89
TS4436AICT	497-5172-2-ND	0.6V, Adjustable Shunt Voltage Ref.*	SC70-5	1368.00/3,000		
TS4436ICT	497-5173-1-ND	0.6V, Adjustable Shunt Voltage Ref.*	SC70-5	1.04	.93	.74
TS4436ICT	497-5173-2-ND	0.6V, Adjustable Shunt Voltage Ref.*	SC70-5	1146.00/3,000		
TS4902ID	497-2294-5-ND	3.3mW at 3.3V Supply Audio Power Amp	8-SOIC	.80	.71	.56
TSM100IDT	497-2330-1-ND	Single Op Amp and Single Comparator	8-SOIC	.77	.70	.55
TSM101AIDT	497-2331-1-ND	Voltage/Current Controller	8-SOIC	1.24	1.11	.89
TSM101AIDT	497-2331-2-ND	Voltage/Current Controller	8-SOIC	1140.00/2,500		
TSM101CDT	497-8162-1-ND	Voltage/Current Controller*	8-SOIC	.96	.86	.69
TSM101CDT	497-8162-2-ND	Voltage/Current Controller*	8-SOIC	882.50/2,500		
TSM101CN	497-5443-5-ND	Voltage/Current Controller*	8-Dip	.88	.79	.62
TSM102AIDT	497-4081-1-ND	Voltage/Current Controller	16-SOIC	1.40	1.26	1.00
TSM102AIDT	497-4081-2-ND	Voltage/Current Controller	16-SOIC	1287.50/2,500		
TSM102IDT	497-5444-1-ND	Voltage/Current Controller*	16-SOIC	1.36	1.16	.99
TSM103ID	497-5445-5-ND	Dual Op Amp/Voltage Reference*	8-SOIC	.80	.71	.56
TSM103IDT	497-5786-1-ND	Dual Op Amp/Voltage Reference*	8-SOIC	.87	.78	.62
TSM103IDT	497-5786-2-ND	Dual Op Amp/Voltage Reference*	8-SOIC	825.00/2,500		
TSM103WAIDT	497-8163-1-ND	Dual Op Amp/Voltage Reference*	8-SOIC	1.00	.90	.72
TSM103WAIDT	497-8163-2-ND	Dual Op Amp/Voltage Reference*	8-SOIC	920.00/2,500		
TSM103WIDT	497-6624-1-ND	Dual Op Amp/Voltage Reference*	8-SOIC	1.12	1.00	.80
TSM103WIDT	497-6624-2-ND	Dual Op Amp/Voltage Reference*	8-SOIC	1030.00/2,500		
TSM104AIDT	497-5446-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.05	.95	.75
TSM104IDT	497-5447-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.42	1.13	.96
TSM104IDT	497-5447-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	972.50/2,500		
TSM104WIDT	497-5449-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	.97	.84	.67
TSM104WIDT	497-5449-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	800.00/2,500		
TSM108IDT	497-2333-1-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.76	1.52	1.24
TSM108IDT	497-2333-2-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1700.00/2,500		
TSM109AIDT	497-4082-1-ND	Dual Comparator/Voltage Reference	8-SOIC	.96	.86	.69
TSM109AIDT	497-4082-2-ND	Dual Comparator/Voltage Reference	8-SOIC	882.50/2,500		
TSM109ID	497-3074-5-ND	Dual Comparator/Voltage Reference	8-SOIC	.97	.85	.66
TSM111CDT	497-5451-1-ND	Triple Voltage and Current Supervisor*	20-SOIC	2.96	2.61	2.22
TSM111CDT	497-5451-2-ND	Triple Voltage and Current Supervisor*	20-SOIC	1204.00/1,000		
TSM111CN	497-2334-5-ND	Triple Voltage and Current Supervisor	20-Dip	2.57	2.33	1.87
TSM112CN	497-5452-5-ND	3.3V/5V/12V Housekeeping IC*	14-Dip	1.37	1.22	.96
TSM1011AID	497-5436-5-ND	Constant Volt./Constant Current Cont.*	8-SOIC	1.10	.98	.78
TSM1011AIDT	497-4470-1-ND	Constant Volt./Constant Current Cont.	8-SOIC	1.20	1.08	.86
TSM1011AIDT	497-4470-2-ND	Constant Volt./Constant Current Cont.	8-SOIC	1102.50/2,500		
TSM1011AIST	497-4471-1-ND	Constant Volt./Constant Current Cont.	8-MSOP	1.28	1.15	.91
TSM1011AIST	497-4471-2-ND	Constant Volt./Constant Current Cont.	8-MSOP	1880.00/4,000		
TSM1011ID	497-5437-5-ND	Constant Volt./Constant Current Cont.*	8-SOIC	.92	.82	.65
TSM1011IDT	497-5438-1-ND	Constant Volt./Constant Current Cont.	8-SOIC	1.00	.90	.72
TSM1011IDT	497-5438-2-ND	Constant Volt./Constant Current Cont.*	8-SOIC	920.00/2,500		
TSM1011IST	497-5439-1-ND	Constant Volt./Constant Current Cont.*	8-MSOP	1.08	.92	.79
TSM1011IST	497-5439-2-ND	Constant Volt./Constant Current Cont.*	8-MSOP	1592.00/4,000		
TSM1012AIDT	497-4472-1-ND	Low Consumption Volt./Current Cont.	8-SOIC	1.36	1.22	.97
TSM1012AIDT	497-4472-2-ND	Low Consumption Volt./Current Cont.	8-SOIC	1250.00/2,500		
TSM1012AIST	497-4473-1-ND	Low Consumption Volt./Current Cont.	8-MSOP	1.36	1.22	.97
TSM1012AIST	497-4473-2-ND	Low Consumption Volt./Current Cont.	8-MSOP	2000.00/4,000		
TSM1012IDT	497-6623-1-ND	Low Consumption Volt./Current Cont.*	8-SOIC	1.16	1.04	.83
TSM1012IDT	497-6623-2-ND	Low Consumption Volt./Current Cont.*	8-SOIC	1067.50/2,500		
TSM1012IST	497-8160-1-ND	Low Consumption Volt./Current Cont.*	8-MSOP	1.16	1.04	.83
TSM1012IST	497-8160-2-ND	Low Consumption Volt./Current Cont.*	8-MSOP	1708.00/4,000		
TSM1013AIDT	497-4474-1-ND	Constant Volt./Constant Current Cont.	8-SOIC	1.91	1.64	1.34
TSM1013AIDT	497-4474-2-ND	Constant Volt./Constant Current Cont.	8-SOIC	1842.50/2,500		
TSM1013AIST	497-4475-1-ND	Constant Volt./Constant Current Cont.	8-MSOP	1.91	1.64	1.34
TSM1013IDT	497-5440-1-ND	Constant Volt./Constant Current Cont.*	8-SOIC	1.16	.99	.85
TSM1013IDT	497-5440-2-ND	Constant Volt./Constant Current Cont.*	8-SOIC	1067.50/2,500		
TSM1013IST	497-5441-1-ND	Constant Volt./Constant Current Cont.*	8-MSOP	1.16	.99	.85
TSM1013IST	497-5441-2-ND	Constant Volt./Constant Current Cont.*	8-MSOP	1708.00/4,000		
TSM1014AIDT	497-4476-1-ND	Low Consumption Volt./Current Cont.	8-SOIC	1.60	1.43	1.14
TSM1014AIDT	497-4476-2-ND	Low Consumption Volt./Current Cont.	8-SOIC	1470.00/2,500		
TSM1014IDT	497-8161-1-ND	Low Consumption Volt./Current Cont.*	8-SOIC	1.28	1.15	.91
TSM1014IDT	497-8161-2-ND	Low Consumption Volt./Current Cont.*	8-SOIC	1175.00/2,500		
TSM1051CD	497-4478-5-ND	Constant Volt./Constant Current Cont.	8-SOIC	.77	.69	.54
TSM1051CLT	497-5450-1-ND	Constant Volt./Constant Current Cont.*	SOT-23-6	1.08	.92	.79
TSM1051CLT	497-5450-2-ND	Constant Volt./Constant Current Cont.*	SOT-23-6	1134.00/3,000		
TSM1052	497-6034-1-ND	Constant Volt./Constant Current Cont.*	SOT-23-6	.96	.86	.69
TSM1052	497-6034-2-ND	Constant Volt./Constant Current Cont.*	SOT-23-6	1059.00/3,000		
UC2842BD1013TR	497-6785-1-ND	Current Mode PWM Controller*	8-SOIC	1.16	1.04	.83
UC2842BD1013TR	497-6785-2-ND	Current Mode PWM Controller*	8-SOIC	1067.50/2,500		
UC2842BN	497-7691-5-ND	High Perf. Current Mode PWM Cont.*	8-Dip	1.07	.95	.75
UC2843BD1013TR	497-8351-1-ND	Current Mode PWM Controller*	8-SOIC	1.16	1.04	.83
UC2843BD1013TR	497-8351-2-ND	Current Mode PWM Controller*	8-SOIC	1067.50/2,500		
UC2844BD1013TR	497-6138-1-ND	Current Mode PWM Controller*	8-SOIC	1.16	1.04	.83
UC2844BD1013TR	497-6138-2-ND	Current Mode PWM Controller*	8-SOIC	1067.50/2,500		
UC2844BN	497-6135-5-ND	Current Mode PWM Controller*	8-Dip	1.07	.95	.75
UC2845BD1013TR	497-3679-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.04	.83
UC2845BD1013TR	497-3679-2-ND	Current Mode PWM Controller	8-SOIC	1067.50/2,500		
UC2845BN	497-3680-5-ND	Current Mode PWM Controller	8-Mini Dip	1.07	.95	.75
UC3842BD1013TR	497-6139-1-ND	Current Mode PWM Controller*	8-SOIC	1.04	.93	.74
UC3842BD1013TR	497-6139-2-ND	Current Mode PWM Controller*	8-SOIC	955.00/2,500		
UC3842BN	497-3079-5-ND	Current Mode PWM Controller*	8-MiniDip	1.14	1.02	.80
UC3843BD1013TR	497-3681-1-ND	Current Mode PWM Controller	8-SOIC	1.04	.93	.74
UC3843BN	497-6786-5-ND	Current Mode PWM Controller*	8-MiniDip	1.03	.92	.73
UC3844BD1013TR	497-3682-1-ND	Current Mode PWM Controller*	8-SOIC	1.24	1.11	.89
UC3844BD1013TR	497-3682-2-ND	Current Mode PWM Controller*	8-SOIC	1140.00/2,500		
UC3844BN	497-6787-5-ND	Current Mode PWM Controller*	8-MiniDip	1.02	.90	.72
UC3845BD1013TR	497-3683-1-ND	Current Mode PWM Controller*	8-SOIC	1.04	.93	.74
UC3845BD1013TR	497-3683-2-ND	Current Mode PWM Controller*	8-SOIC	955.00/2,500		
UCB1400BEVM	568-1323-1-ND	Audio CODEC with Touch Screen Cont.	48-LQFP	5.40	4.32	3.65
UCB1400BEVM	568-1323-2-ND	Audio CODEC with Touch Screen Cont.	48-LQFP	6750.00/2,000		
VIPER12ADIP-E	497-5575-5-ND	LP Off Line SMPS Primary Switcher*	8-Dip	1.63	1.47	1.19
VIPER12ASTR-E	497-6792-1-ND	LP Off Line SMPS Primary Switcher*	8-SOIC	2.02	1.74	1.42
VIPER12ASTR-E	497-6792-2-ND	LP Off Line SMPS Primary Switcher*	8-SOIC	1950.00/2,500		

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

STMicroelectronics Digi-Reel® *(Cont.)*

POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
VIPER15HDTR	497-10062-1-ND	Off-Line High Voltage Converter* ***NEW!***	16-SOIC	1.68	1.50	1.20
VIPER15HDTR	497-10062-2-ND	Off-Line High Voltage Converter* ***NEW!***	16-SOIC	1542.50/2,500		
VIPER15HN	497-8737-5-ND	Off-Line High Voltage Converter*	16-SOIC	1.32	1.18	.93
VIPER15LDTR	497-10063-1-ND	Off-Line High Voltage Converter* ***NEW!***	16-SOIC	1.68	1.50	1.20
VIPER15LDTR	497-10063-2-ND	Off-Line High Voltage Converter* ***NEW!***	16-SOIC	1542.50/2,500		
VIPER15LN	497-8738-5-ND	Off-Line High Voltage Converter*	7-Dip	1.32	1.18	.93
VIPER16HDTR	497-8828-1-ND	VIPer™ Off-Line Converter* ***NEW!***	16-SOIC	1.68	1.50	1.20
VIPER16HDTR	497-8828-2-ND	VIPer™ Off-Line Converter* ***NEW!***	16-SOIC	1542.50/2,500		
VIPER16HN	497-8545-5-ND	VIPer™ Off-Line Converter*	7-Dip	1.47	1.31	1.03
VIPER16LDTR	497-8829-1-ND	VIPer™ Off-Line Converter* ***NEW!***	16-SOIC	1.68	1.50	1.20
VIPER16LDTR	497-8829-2-ND	VIPer™ Off-Line Converter* ***NEW!***	16-SOIC	1542.50/2,500		
VIPER16LN	497-8546-5-ND	VIPer™ Off-Line Converter*	7-Dip	1.47	1.31	1.03
VIPER17HDTR	497-7045-1-ND	Off-Line High Voltage Converter*	16-SOIC	1.84	1.58	1.29
VIPER17HDTR	497-7045-2-ND	Off-Line High Voltage Converter*	16-SOIC	1772.50/2,500		
VIPER17HN	497-6950-5-ND	Off-Line High Voltage Converter*	8-Dip	1.47	1.31	1.03
VIPER17LDTR	497-7048-1-ND	Off-Line High Voltage Converter*	16-SOIC	1.84	1.58	1.29
VIPER17LDTR	497-7048-2-ND	Off-Line High Voltage Converter*	16-SOIC	1772.50/2,500		
VIPER17LN	497-6951-5-ND	Off-Line High Voltage Converter*	8-Dip	1.47	1.31	1.03
VIPER20-22-E	497-6793-5-ND	SMPS Primary IC*	Pentawatt HV	2.29	2.05	1.68
VIPER20A-22-E	497-6795-5-ND	SMPS Primary IC*	Pentawatt HV	3.65	3.26	2.67
VIPER20ADIP-E	497-6797-5-ND	SMPS Primary IC*	8-Dip	2.70	2.45	1.97
VIPER20A-E	497-6796-5-ND	SMPS Primary IC*	Pentawatt HV	2.84	2.54	2.08
VIPER20ASPTR-E	497-6164-1-ND	SMPS Primary IC*	10-PowerSO	4.25	3.83	3.12
VIPER20-E	497-6794-5-ND	SMPS Primary IC*	Pentawatt HV	2.94	2.63	2.16
VIPER22ADIP-E	497-7694-5-ND	LP Off-Line SMPS Primary Switcher*	8-Dip	2.02	1.83	1.47
VIPER22ASTR-E	497-8167-1-ND	LP Off-Line SMPS Primary Switcher*	8-SOIC	2.94	2.52	2.06
VIPER22ASTR-E	497-8167-2-ND	LP Off-Line SMPS Primary Switcher*	8-SOIC	2835.00/2,500		
VIPER25HDTR	497-10066-1-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1.76	1.52	1.24
VIPER25HDTR	497-10066-2-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1700.00/2,500		
VIPER25HN	497-9073-5-ND	Off-Line High Volt. Converter* ***NEW!***	7-Dip	1.63	1.47	1.19
VIPER25LDTR	497-10067-1-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1.76	1.52	1.24
VIPER25LDTR	497-10067-2-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1700.00/2,500		
VIPER25LN	497-9074-5-ND	Off-Line High Volt. Converter* ***NEW!***	7-Dip	1.63	1.47	1.19
VIPER27HDTR	497-10068-1-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1.76	1.52	1.24
VIPER27HDTR	497-10068-2-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1700.00/2,500		
VIPER27HN	497-8389-5-ND	Off-Line High Voltage Converter*	7-Dip	1.56	1.42	1.14
VIPER27LDTR	497-10069-1-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1.76	1.52	1.24
VIPER27LDTR	497-10069-2-ND	Off-Line High Volt. Converter* ***NEW!***	16-SOIC	1700.00/2,500		
VIPER27LN	497-8390-5-ND	Off-Line High Voltage Converter*	7-Dip	1.56	1.42	1.14
VIPER28HN	497-8391-5-ND	Off-Line High Voltage Converter*	7-Dip	1.56	1.42	1.14
VIPER28LN	497-8392-5-ND	Off-Line High Voltage Converter*	7-Dip	1.56	1.42	1.14
VIPER50-22-E	497-7695-5-ND	SMPS Primary IC*	Pentawatt HV	3.37	3.01	2.47
VIPER50A-22-E	497-6802-5-ND	SMPS Primary IC*	Pentawatt HV	4.32	3.86	3.17
VIPER50A-E	497-6162-5-ND	SMPS Primary IC*	5-Pentawatt	4.32	3.86	3.17
VIPER50ASPTR-E	497-6165-1-ND	SMPS Primary IC*	10-PowerSO	4.41	3.97	3.24
VIPER50-E	497-6801-5-ND	SMPS Primary IC*	Pentawatt HV	3.21	2.87	2.35
VIPER53DIP-E	497-6171-5-ND	Off Line Primary Switch*	8-Dip	3.23	2.89	2.37
VIPER53EDIP-E	497-6172-5-ND	Off Line Primary Switch*	8-Dip	3.23	2.89	2.37
VIPER53ESPTR-E	497-5772-1-ND	Off Line Primary Switch*	10-PowerSO	4.73	4.26	3.47
VIPER53ESPTR-E	497-5772-2-ND	Off Line Primary Switch*	10-PowerSO	1569.00/600		
VIPER53SPTR-E	497-6173-1-ND	Off Line Primary Switch*	10-PowerSO	4.73	4.26	3.47
VIPER53SPTR-E	497-6173-2-ND	Off Line Primary Switch*	10-PowerSO	1569.00/600		
VIPER100	497-2714-5-ND	620V, 3A, Driver	5-Pentawatt	3.66	3.28	2.69
VIPER100-22-E	497-7693-5-ND	SMPS Primary IC*	Pentawatt HV	4.85	4.34	3.56
VIPER100-E	497-6161-5-ND	SMPS Primary IC*	5-Pentawatt	4.70	4.20	3.45
VIPER100(022Y)	497-3285-5-ND	620V, 3A, Driver	5-Pentawatt	3.78	3.38	2.77
VIPER100A-E	497-4687-5-ND	700V, 3A, Driver	5-Pentawatt	4.85	4.34	3.56
VIPER100A-22-E	497-4686-5-ND	700V, 3A, Driver	5-Pentawatt	4.85	4.34	3.56
VIPER100ASPTR-E	497-6163-1-ND	SMPS Primary IC*	10-PowerSO	5.36	4.82	3.93
VIPER100ASPTR-E	497-6163-2-ND	SMPS Primary IC*	10-PowerSO	1777.80/600		
VND14NV04-E	497-2674-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	D-PAK	2.54	2.30	1.85

STMicroelectronics Digi-Reel®

PROTECTION DEVICES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DA108S1	497-2696-5-ND	Diode Array*	8-SOIC	1.29	1.15	.91
DA108S1RL	497-3399-1-ND	8 Diode Array*	8-SOIC	1.40	1.26	1.00
DA108S1RL	497-3399-2-ND	8 Diode Array*	8-SOIC	1287.50/2,500		
DALC112S1	497-2695-5-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1.10	.97	.77
DALC112S1RL	497-3400-1-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1.19	1.07	.85
DALC112S1RL	497-3400-2-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1095.00/2,500		
DALC208SC6	497-2525-1-ND	Low Capacitance Diode Array*	SOT-23-6	1.16	1.04	.83
DALC208SC6	497-2525-2-ND	Low Capacitance Diode Array*	SOT-23-6	1281.00/3,000		
ETP01-2821RL	497-8909-1-ND	Ethernet Line Protection* ***NEW!***	8-SOIC	1.40	1.26	1.00
ETP01-2821RL	497-8909-2-ND	Ethernet Line Protection* ***NEW!***	8-SOIC	1287.50/2,500		
RBO08-40G	497-6722-5-ND	Reversed Battery/Overvoltage Protection*	D2-PAK	2.60	2.36	1.89
SCLT3-8BT8	497-10100-5-ND	Protected Digital Input Termination* ***NEW!***	38-HTSSOP	8.40	7.56	6.22
SMLVT3V3	497-2496-1-ND	Low Voltage TRANSIL™	SMB	.74	.64	.51
SMLVT3V3	497-2496-2-ND	Low Voltage TRANSIL™	SMB	610.00/2,500		
SSRP105B1	497-4303-5-ND	Dual Asymmetrical Overvoltage Protection for Telecom Line*	8-SOIC	1.26	1.15	.92
TPI8011NRL	497-6605-1-ND	ISDN Interface Tripolar Protection*	8-SOIC	2.02	1.74	1.42
TPI8011NRL	497-6605-2-ND	ISDN Interface Tripolar Protection*	8-SOIC	1950.00/2,500		
TPN3021RL	497-3741-1-ND	Tripolar Overvoltage Protection for Network Interfaces*	8-SOIC	2.02	1.74	1.42
TPN3021RL	497-3741-2-ND	Tripolar Overvoltage Protection for Network Interfaces*	8-SOIC	1950.00/2,500		
USBLC6-2P6	497-5026-1-ND	Very Low Capacitance, ESD Protection	SOT-666	1.00	.90	.72
USBLC6-2P6	497-5026-2-ND	Very Low Capacitance, ESD Protection	SOT-666	1104.00/3,000		
USBLC6-4SC6	497-4492-1-ND	Very Low Capacitance, ESD Protection*	SOT-23-6	1.60	1.43	1.14
USBLC6-4SC6	497-4492-2-ND	Very Low Capacitance, ESD Protection*	SOT-23-6	1764.00/3,000		
USBULC6-2F3	497-8166-1-ND	2 Line IPAD Ultra Low Cap. Protection for High Speed USB*	4-FlipChip	1.20	1.08	.86
USBULC6-2F3	497-8166-2-ND	2 Line IPAD Ultra Low Cap. Protection for High Speed USB*	4-FlipChip	2095.00/5,000		

STMicroelectronics Digi-Reel®

SENSORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LM135Z	497-6985-ND	Precision Temp. Sensor*	TO-92	9.10	8.75	6.65
LM234DT	497-1549-1-ND	3-Terminal Adj. Current Source	8-SOIC	1.72	1.54	1.23
LM234DT	497-1549-2-ND	3-Terminal Adj. Current Source	8-SOIC	1582.50/2,500		
LM235DT	497-6453-1-ND	Precision Temp. Sensor*	8-SOIC	1.80	1.61	1.28
LM235DT	497-6453-2-ND	Precision Temp. Sensor*	8-SOIC	1655.00/2,500		
LM235Z	497-7324-5-ND	Precision Temp. Sensor*	TO-92	2.28	2.06	1.66
LM334DT	497-7820-1-ND	3-Term. Adj. Current Source*	8-SOIC	1.33	1.20	.95
LM334DT	497-7820-2-ND	3-Term. Adj. Current Source*	8-SOIC	1227.50/2,500		
LM335ADT	497-4047-1-ND	Precision Temperature Sensor	8-SOIC	1.74	1.57	1.24
LM335AZ	497-2977-5-ND	Precision Temperature Sensor	TO-92	1.40	1.24	.98
LM335DT	497-1583-1-ND	Precision Temperature Sensor	8-SOIC	1.51	1.35	1.08
LM335DT	497-1583-2-ND	Precision Temperature Sensor	8-SOIC	1390.00/2,500		
LM335Z	497-1584-ND	Precision Temperature Sensor	TO-92	1.18	1.05	.83
STCN75DS2F	497-6317-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	2.15	1.85	1.51
STCN75DS2F	497-6317-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	892.00/1,000		
STCN75M2F	497-6176-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1.98	1.71	1.39
STDS75DS2F	497-6318-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	2.29	1.96	1.60
STDS75DS2F	497-6318-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	947.00/1,000		
STDS75M2F	497-6177-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2.10	1.80	1.47
STDS75M2F	497-6177-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2022.50/2,500		
STDVE003ABTR	497-6838-1-ND	3:1 TMDS/HDMI Signal Equalizer*	80-TQFP	4.73	4.26	3.47
STDVE003ABTR	497-6838-2-ND	3:1 TMDS/HDMI Signal Equalizer*	80-TQFP	2205.00/1,000		
STDVE103ABTR	497-8384-1-ND	Adaptive 3.4Gbps 3:1 TMDS/HDMI Signal Equalizer*	64-TQFP	4.10	3.69	3.01
STDVE103ABTR	497-8384-2-ND	Adaptive 3.4Gbps 3:1 TMDS/HDMI Signal Equalizer*	64-TQFP	1911.00/1,000		
STMPE16M31QTR	497-10381-1-ND	16-Ch. S-Touch™ Sensor* ***NEW!***	40-QFN	4.73	4.26	3.47
STMPE16M31QTR	497-10381-2-ND	16-Ch. S-Touch™ Sensor* ***NEW!***	40-QFN	10040.00/5,000		
STMPE24M31QTR	497-10380-1-ND	24-Ch. S-Touch™ Sensor* ***NEW!***	16-QFN	6.30	5.67	4.62
STMPE24M31QTR	497-10380-2-ND	24-Ch. S-Touch™ Sensor* ***NEW!***	16-QFN	8379.00/3,000		
STMPE321QTR	497-8985-1-ND	3-Ch. Touch Key Controller* ***NEW!***	12-QFN	2.02	1.74	1.42
STMPE321QTR	497-8985-2-ND	3-Ch. Touch Key Controller* ***NEW!***	12-QFN	2340.00/3,000		
STMPE610QTR	497-8825-1-ND	Touchscreen Controller with 6-Bit Expander* ***NEW!***	16-QFN	2.21	1.89	1.55
STMPE610QTR	497-8825-2-ND	Touchscreen Controller with 6-Bit Expander* ***NEW!***	16-QFN	3404.00/4,000		
STMPE821QTR	497-8826-1-ND	8 Ch. Touch Key Controller* ***NEW!***	16-QFN	2.68	2.31	1.88
STMPE821QTR	497-8826-2-ND	8 Ch. Touch Key Controller* ***NEW!***	16-QFN	3105.00/3,000		
STMPE1208SQTR	497-8282-1-ND	Xpander Logic with 12-Ch. Touchkey*	40-QFN	3.78	3.41	2.78
STMPE1208SQTR	497-8282-2-ND	Xpander Logic with 12-Ch. Touchkey*	40-QFN	5028.00/3,000		
STLM20DD9F	497-5814-1-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	4-UDFN	1.32	1.18	.94
STLM20DD9F	497-5814-2-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	4-UDFN	1458.00/3,000		
STLM20W87F	497-5970-1-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	SOT-23-5	1.24	1.11	.89
STLM20W87F	497-5970-2-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	SOT-23-5	1368.00/3,000		
STLM75DS2F	497-6326-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1.84	1.65	1.31
STLM75DS2F	497-6326-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	725.00/1,000		
STLM75M2F	497-6926-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1.84	1.58	1.29
STLM75M2F	497-6926-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1772.50/2,500		
STPMS1BPQR	497-10475-1-ND	2-Ch. Smart Sensor with PGA* ***NEW!***	16-QFN	6.46	5.82	4.74
STPMS1BPQR	497-10475-2-ND	2-Ch. Smart Sensor with PGA* ***NEW!***	16-QFN	8589.00/3,000		
STTS75DS2F	497-6331-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	2.72	2.34	1.91
STTS75DS2F	497-6331-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1127.00/1,000		
STTS75M2F	497-6178-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2.50	2.15	1.75
STTS75M2F	497-6178-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2410.00/2,500		
TDA0161DP	497-2158-5-ND	Proximity Detector	8-Mini Dip	2.77	2.50	2.01
TDA0161FP	497-2159-5-ND	Proximity Detector	8-SOIC	2.77	2.50	2.01
TDA0161FPT	497-6598-1-ND	Proximity Detector*	8-SOIC	3.13	2.68	2.19
TDA0161FPT	497-6598-2-ND	Proximity Detector*	8-SOIC	3015.00/2,500		
TDE0160FPT	497-5417-1-ND	Proximity Detectors*	14-SOIC	5.14	4.63	3.77
TDE0160FPT	497-5417-2-ND	Proximity Detectors*	14-SOIC	5692.50/2,500		

STMicroelectronics Digi-Reel®

THYRISTORS AND AC SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ACS102-6T1	497-7154-5-ND	AC Line Switch*	8-SOIC	1.07	.95	.75
ACS102-6T1-TR	497-5565-1-ND	AC Line Switch*	8-SOIC	1.16	1.04	.83
ACS102-6T1-TR	497-5565-2-ND	AC Line Switch*	8-SOIC	1067.50/2,500		
ACS102-6TA-TR	497-5566-1-ND	AC Line Switch*	TO-92	1.16	1.04	.83
ACS102-6TA-TR	497-5566-2-ND	AC Line Switch*	TO-92	854.00/2,000		
ACS108-6SA	497-7155-ND	AC Line Switch*	TO-92	1.14	1.02	.80
ACS108-6SA-TR	497-5567-1-ND	AC Line Switch*	TO-92	1.24	1.11	.89
ACS108-6SA-TR	497-5567-2-ND	AC Line Switch*	TO-92	912.00/2,000		
ACS108-6SN-TR	497-5568-1-ND	AC Line Switch*	SOT-223	1.64	1.47	1.17
ACS108-6SN-TR	497-5568-2-ND	AC Line Switch*	SOT-223	647.00/1,000		
ACS110-7SB2	497-4149-5-ND	AC Line Switch*	8-Dip	1.03	.91	.72
ACS120-7SB-TR	497-6099-1-ND	AC Line Switch*	D-PAK	1.72	1.54	1.23
ACS120-7SB-TR	497-6099-2-ND	AC Line Switch*	D-PAK	1582.50/2,500		
ACS120-7SFP	497-3815-5-ND	AC Line Switch*	TO-220-FPAB	1.66	1.47	1.16
ACS302-5T3	497-3114-5-ND	AC Switch Array, 3 Lines*	20-SOIC	2.31	2.09	1.68
ACS302-5T3-TR	497-5326-1-ND	AC Switch Array, 3 Lines*	20-SOIC	2.61	2.24	1.83
ACS302-5T3-TR	497-5326-2-ND	AC Switch Array, 3 Lines*	20-SOIC	1082.00/1,000		
ACST2-8SB	497-7156-5-ND	AC Switch, 800V, 2A, 10mA*	D-PAK	1.18	1.05	.83
ACST2-8SB-TR	497-6006-1-ND	AC Switch, 800V, 2A, 10mA*	D-PAK	1.28	1.15	.91
ACST2-8SFP	497-7157-5-ND	AC Switch, 800V, 2A, 10mA*	TO-220-FPAB	1.18	1.05	.83
ACST4-7CB	497-4639-5-ND	AC Power Switch*	D-PAK	1.82	1.65	1.33

* *RoHS Compliant* ★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★ *(Continued)*

STMicroelectronics DigiReel® (Cont.) THYRISTORS AND AC SWITCHES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ACST4-7CB-TR	497-7733-1-ND	AC Power Switch*	D-PAK	2.06	1.77	1.45
ACST4-7CFP	497-3820-5-ND	AC Power Switch	TO-220-FPAB	1.66	1.47	1.16
ACST4-7CH	497-4640-5-ND	AC Power Switch*	I-PAK	1.25	1.11	.88
ACST4-7SFP	497-2568-5-ND	AC Power Switch*	TO-220-FPAB	1.95	1.77	1.42
ACST4-8SFP	497-10289-5-ND	AC Power Switch* ***NEW!***	TO-220-FPAB	1.55	1.40	1.13
ACST6-7SG	497-3115-5-ND	Over Volt. Protected AC Pwr Switch*	D2-PAK	2.31	2.09	1.68
ACST6-7SG-TR	497-6100-1-ND	Over Volt. Protected AC Pwr Switch*	D2-PAK	2.28	1.96	1.60
ACST6-7SG-TR	497-6100-2-ND	Over Volt. Protected AC Pwr Switch*	D2-PAK	944.00/1,000		
ACST6-7ST	497-2547-5-ND	Over Volt. Protected AC Pwr. Switch*	TO-220AB	2.15	1.94	1.56
ACST8-8CFP	497-2566-5-ND	Over Volt. Protected AC Pwr. Switch*	TO-220-FPAB	2.90	2.62	2.11
ACST8-8CG-TR	497-4151-1-ND	Over Volt. Protected AC Pwr. Switch	D2-PAK	3.27	2.81	2.30
ACST8-8CT	497-3380-ND	Over Volt. Protected AC Pwr. Switch	TO-220AB	2.60	2.36	1.89
ACST10-7CT	497-8742-5-ND	AC Power Switch* ***NEW!***	TO-220AB	2.77	2.50	2.01
ACST10-7ST	497-8743-5-ND	AC Power Switch* ***NEW!***	TO-220AB	2.77	2.50	2.01
ACST12-7CG-TR	497-8744-1-ND	AC Power Switch* ***NEW!***	D2-PAK	3.31	2.98	2.43
ACST12-7CG-TR	497-8744-2-ND	AC Power Switch* ***NEW!***	D2-PAK	1544.00/1,000		
ACST12-7CT	497-8745-5-ND	AC Power Switch* ***NEW!***	TO-220AB	2.94	2.63	2.16
ACST12-7SG-TR	497-8746-1-ND	AC Power Switch* ***NEW!***	D2-PAK	3.15	2.84	2.31
ACST12-7SG-TR	497-8746-2-ND	AC Power Switch* ***NEW!***	D2-PAK	1470.00/1,000		
ACST12-7ST	497-8747-5-ND	AC Power Switch* ***NEW!***	TO-220AB	2.94	2.63	2.16
CLT3-4BT6-TR	497-2455-1-ND	Quad Digital Termination	20-TSSOP	3.75	3.38	2.75
CLT3-4BT6-TR	497-2455-2-ND	Quad Digital Termination	20-TSSOP	4157.50/2,500		
STCC05-BD4	497-4328-5-ND	Home Appliance Control Circuit	20-Dip	2.77	2.50	2.01
STCC08RL	497-7004-1-ND	AC Switch Failure Mode Detector*	8-SOIC	1.20	1.08	.86
STCC08RL	497-7004-2-ND	AC Switch Failure Mode Detector*	8-SOIC	1102.50/2,500		
TN22-1500B-TR	497-3772-1-ND	400V, 2A Startlight	D-PAK	1.42	1.28	1.02
TN22-1500T	497-6169-ND	400V, 2A Startlight*	TO-220-AB	1.62	1.44	1.14

STMicroelectronics DigiReel® TRANSISTORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
BC107B	497-6654-ND	Low Noise Audio Amp*	TO-18	1.47	1.31	1.03
ESM2030DV	497-7232-5-ND	NPN Darlington Pwr Module*	ISOTOP	26.88	24.87	21.17
ESM3030DV	497-6691-5-ND	NPN Darlington Pwr Module*	ISOTOP	30.87	28.56	24.32

SII Seiko Instruments Inc. DigiReel® POWER MANAGEMENT

RoHS Compliant

Seiko Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
S-80821CNMC-B8GT2G	728-1008-1-ND	2.1V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80821CNMC-B8GT2G	728-1008-2-ND	2.1V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	975.00/3,000		
S-80825CLUA-B6KT2G	728-1009-1-ND	2.5V, High-Precision Voltage Detector N-Ch. CMOS Output	SOT-89-3	.75	.63	.50
S-80825CLUA-B6KT2G	728-1009-2-ND	2.5V, High-Precision Voltage Detector N-Ch. CMOS Output	SOT-89-3	333.00/1,000		
S-80825CNUA-B8KT2G	728-1010-1-ND	2.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	.75	.63	.50
S-80825CNUA-B8KT2G	728-1010-2-ND	2.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-80830CNMC-B8PT2G	728-1011-1-ND	3.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80840CNUA-B8ZT2G	728-1012-1-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	.75	.63	.50
S-80840CNUA-B8ZT2G	728-1012-2-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-80840CNY-B-G	728-1013-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	TO-92	1.00	.75	.57
S-80845CNMC-B86T2G	728-1014-1-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80845CNMC-B86T2G	728-1014-2-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	975.00/3,000		
S-80845CNY-B-G	728-1015-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	TO-92	1.00	.75	.57
S-80846CNUA-B87T2G	728-1016-1-ND	4.6V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	1.00	.75	.57
S-80846CNUA-B87T2G	728-1016-2-ND	4.6V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-812C25AUA-C2FT2G	728-1017-1-ND	2.5V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C25AUA-C2FT2G	728-1017-2-ND	2.5V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C30AMC-C2KT2G	728-1018-1-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C30AMC-C2KT2G	728-1018-2-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C30AUA-C2KT2G	728-1019-1-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C30AUA-C2KT2G	728-1019-2-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C30AY-B-G	728-1020-ND	3.0V, High-Voltage CMOS LDO Reg.	TO-92	.92	.69	.52
S-812C33AMC-C2NT2G	728-1021-1-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C33AMC-C2NT2G	728-1021-2-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C33AUA-C2NT2G	728-1022-1-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C33AUA-C2NT2G	728-1022-2-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C40AMC-C2UT2G	728-1023-1-ND	4.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C40AMC-C2UT2G	728-1023-2-ND	4.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C50AUA-C3ET2G	728-1024-1-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C50AUA-C3ET2G	728-1024-2-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C50AMC-C3ET2G	728-1025-1-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C50AMC-C3ET2G	728-1025-2-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C50AY-B-G	728-1026-ND	5.0V, High-Voltage CMOS LDO Reg.	TO-92	.92	.69	.52
S-817A30ANB-CUTT2G	728-1027-1-ND	3.0V, Super-Small CMOS LDO Reg.	SC-82AB	.92	.69	.52
S-817A33ANB-CUWT2G	728-1028-1-ND	3.3V, Super-Small CMOS LDO Reg.	SC-82AB	.92	.69	.52
S-817A33ANB-CUWT2G	728-1028-2-ND	3.3V, Super-Small CMOS LDO Reg.	SC-82AB	897.00/3,000		
S-817B15AMC-CWET2G	728-1029-1-ND	1.5V, Super-Small CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-817B15AMC-CWET2G	728-1029-2-ND	1.5V, Super-Small CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-817B33AMC-CWWT2G	728-1030-1-ND	3.3V, Super-Small CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-817B33AMC-CWWT2G	728-1030-2-ND	3.3V, Super-Small CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-8232ABFT-T2-G	728-1031-1-ND	Battery Prot. for 2-Serial-Cell Pack	8-TSSOP	1.30	1.04	.78
S-8232ABFT-T2-G	728-1031-2-ND	Battery Prot. for 2-Serial-Cell Pack	8-TSSOP	2028.00/3,000		
S-8241ABKMC-GBKT2G	728-1032-1-ND	Battery Prot. for Single-Cell Pack	SOT-23-5	.88	.66	.50
S-8241ABKMC-GBKT2G	728-1032-2-ND	Battery Prot. for Single-Cell Pack	SOT-23-5	858.00/3,000		
S-8241ABPMC-GBPT2G	728-1033-1-ND	Battery Prot. for Single-Cell Pack	SOT-23-5	.88	.66	.50
S-8241ABPMC-GBPT2G	728-1033-2-ND	Battery Prot. for Single-Cell Pack	SOT-23-5	858.00/3,000		
S-8261AAJMD-G2JT2G	728-1034-1-ND	Battery Prot. for Single-Cell Pack	SOT-23-6	.75	.63	.50
S-8261AAJMD-G2JT2G	728-1034-2-ND	Battery Prot. for Single-Cell Pack	SOT-23-6	975.00/3,000		
S-8354A33MC-JQST2G	728-1035-1-ND	3.3V, PWM/PFM Switching Reg.	SOT-23-5	.90	.75	.60

SII Seiko Instruments Inc. DigiReel® (Cont.) POWER MANAGEMENT

RoHS Compliant

Seiko Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
S-8354A33MC-JQST2G	728-1035-2-ND	3.3V, PWM/PFM Switching Reg.	SOT-23-5	1170.00/3,000		
S-8354A50MC-JRJT2G	728-1036-1-ND	5.0V, PWM/PFM Switching Reg.	SOT-23-5	.90	.75	.60
S-8354A50MC-JRJT2G	728-1036-2-ND	5.0V, PWM/PFM Switching Reg.	SOT-23-5	1170.00/3,000		
Real-Time Clocks						
S-35390A-I8T1G	728-1059-1-ND	2 Wire Real-Time Clock ***NEW!***	SNT-8A	1.33	1.06	.80
S-35390A-I8T1G	728-1059-2-ND	2 Wire Real-Time Clock ***NEW!***	SNT-8A	3315.00/5,000		
S-35390A-J8T1G	728-1006-1-ND	2 Wire Real-Time Clock	8-SOP	1.32	1.10	.88
S-35390A-J8T1G	728-1006-2-ND	2 Wire Real-Time Clock	8-SOP	1170.00/2,000		
S-35390A-T8T1G	728-1007-1-ND	2 Wire Real-Time Clock	8-TSSOP	1.41	1.18	.94
S-35390A-T8T1G	728-1007-2-ND	2 Wire Real-Time Clock	8-TSSOP	1833.00/3,000		

Honeywell NEW! POWER MANAGEMENT

Honeywell Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★
HTMOS™ High Temperature Products				
HT1104	342-1076-ND	Quad Push Pull Operational Amp	14-Dip	225.00
HT1204	342-1077-ND	Quad SPST-NO Analog Switch	14-Dip	156.25
HTNFET-D	342-1078-ND	N-Channel Power FET	8-Dip	268.75
HTOP01	342-1081-ND	Dual Precision Operational Amp	14-Dip	300.00
HTPLREG05TC	342-1079-ND	5V, 0.5A LDO Regulator	4-SIP	412.50
HTPLREG15TC	342-1080-ND	15V, 0.5A LDO Regulator	4-SIP	412.50

POWER INTEGRATIONS DigiReel® INTEGRATED POWER SWITCHING CONTROLLERS

Power Integrations Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Design Kits						
DAK-16A	596-1001-ND	AC/DC Power Supply Design Kit	—	19.43	—	—
DAK-68A	596-1007-ND	DC/DC Flyback Converter with PoE Powered Device Interface Design Kit	—	29.95	—	—
DAK-85	596-1104-ND	LinkSwitch®-LP Design Accelerator Kit*	—	19.43	—	—
DAK-86	596-1195-ND	DPA-Switch® 6.6W DC/DC Conv. Design Kit	—	87.50	—	—
DAK-89	596-1105-ND	LinkSwitch®-XT Design Accelerator Kit*	—	19.43	—	—
DAK-93	596-1126-ND	PeakSwitch® Design Accelerator Kit*	—	99.91	—	—
RDK-91	596-1194-ND	TinySwitch®-III Design Accelerator Kit*	—	112.50	—	—
RDK-131	596-1127-ND	LinkSwitch®-TN LED Reference Design Kit	—	97.50	—	—
RDK-138	596-1197-ND	LinkSwitch®-TN 1.2W Non-Isolated Design Kit	—	93.75	—	—
RDK-142	596-1193-ND	TOPSwitch®-HX Reference Design Kit*	—	99.75	—	—
RDK-201	596-1266-ND	LinkSwitch®-CV Ref. Design Kit* ***NEW!***	—	112.50	—	—
RDK-203	596-1267-ND	PeakSwitch® Reference Design Kit* ***NEW!***	—	112.50	—	—
DPA-Switch® — RoHS Compliant						
DPA423GN-TL	596-1010-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.40	1.92	1.44
DPA423GN-TL	596-1010-2-ND	Highly Integrated DC/DC Converter	8-SMD	1248.00/1,000		
DPA423PN	596-1011-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.33	1.86	1.40
DPA424GN-TL	596-1013-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.66	2.13	1.66
DPA424GN-TL	596-1013-2-ND	Highly Integrated DC/DC Converter	8-SMD	1505.00/1,000		
DPA425GN-TL	596-1016-1-ND	Highly Integrated DC/DC Converter	8-SMD	3.67	2.94	2.29
DPA425GN-TL	596-1016-2-ND	Highly Integrated DC/DC Converter	8-SMD	2078.00/1,000		
DPA425PN	596-1017-5-ND	Highly Integrated DC/DC Converter	8-Dip	3.60	2.88	2.24
HiperPLC — RoHS Compliant						
PLC810PG	596-1264-5-ND	Continuous Mode PFC and LLC Controller, Halogen Free	24-Dip	3.15	2.52	1.96
RDK-189	596-1265-ND	Reference Design Kit for PLC810	—	112.50	—	—
LinkSwitch® — RoHS Compliant						
LNK500PN	596-1029-5-ND	Energy Efficient, CV or CV/CC Switcher	8-Dip	1.14	.95	.76
LNK501GN-TL	596-1030-1-ND	Energy Efficient, CV/CC Switcher	8-SMD	1.44	1.20	.96
LNK501GN-TL	596-1030-2-ND	Energy Efficient, CV/CC Switcher	8-SMD	638.00/1,000		
LNK501PN	596-1031-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.35	1.13	.90
LNK520GN-TL	596-1032-1-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	1.02	.85	.68
LNK520PN	596-1033-5-ND	Energy Efficient, CV or CV/CC Switcher	8-Dip	.93	.78	.62
LinkSwitch®-CV — RoHS Compliant						
LNK623DG	596-1249-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-SOIC	1.35	1.13	.90
LNK623PG	596-1248-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-Dip	1.44	1.20	.96
LNK624DG	596-1251-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-SOIC	1.41	1.18	.94
LNK624PG	596-1250-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-Dip	1.25	1.00	.75
LNK625DG	596-1253-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-SOIC	1.28	1.02	.77
LNK625PG	596-1252-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-Dip	1.35	1.08	.81
LNK626PG	596-1254-5-ND	Energy Efficient, Off-Line Switcher with Accurate Primary Side CV Control	8-Dip	1.40	1.12	.84
LinkSwitch®-II — RoHS Compliant						
LNK603DG	596-1220-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.35	1.13	.90
LNK603PG	596-1219-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.44	1.20	.96
LNK604DG	596-1224-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.41	1.18	.94
LNK604PG	596-1223-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.25	1.00	.75
LNK605DG	596-1228-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.47	1.23	.98
LNK605PG	596-1227-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.30	1.04	.78
LNK606GG	596-1232-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.40	1.12	.84
LNK606PG	596-1231-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.35	1.08	.81
LNK613DG	596-1222-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.35	1.13	.90
LNK613PG	596-1221-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.44	1.20	.96
LNK614DG	596-1226-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.41	1.18	.94
LNK615DG	596-1230-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.47	1.23	.98
LNK615PG	596-1229-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.30	1.04	.78
LNK616GG	596-1234-5-ND	Energy Efficient, CV/CC Switcher	8-SOIC	1.40	1.12	.84
LNK616PG	596-1233-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.35	1.08	.81
LinkSwitch®-LP — RoHS Compliant						
LNK562DG	596-1246-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement, Hallogen Free	8-SOIC	1.08	.90	.72
LNK562PN	596-1035-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-Dip	.99	.83	.66
LNK563PN	596-1037-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-Dip	1.02	.85	.68

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

POWER INTEGRATIONS Digi-Reel® (Cont.) INTEGRATED POWER SWITCHING CONTROLLERS

Power Integrations Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK564DG	596-1247-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement, Hallogen Free	8-SOIC	1.14	.95	.76
LNK564DN-TL	596-1137-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1.17	.98	.78
LNK564GN-TL	596-1038-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SMD	1.14	.95	.76
LinkSwitch®-TN — RoHS Compliant						
LNK302DG-TL	596-1236-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1.14	.95	.76
LNK302DG-TL	596-1236-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1235.00/2,500		
LNK302GN-TL	596-1020-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.11	.93	.74
LNK302GN-TL	596-1020-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	492.00/1,000		
LNK302PN	596-1021-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.02	.85	.68
LNK304DG-TL	596-1237-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1.26	1.05	.84
LNK304DG-TL	596-1237-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1365.00/2,500		
LNK304GN-TL	596-1022-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.23	1.03	.82
LNK304GN-TL	596-1022-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	545.00/1,000		
LNK304PN	596-1023-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.14	.95	.76
LNK305DG	596-1238-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Hallogen Free	8-SOIC	1.44	1.20	.96
LNK305GN-TL	596-1024-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.44	1.20	.96
LNK305GN-TL	596-1024-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	638.00/1,000		
LNK305PN	596-1025-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.35	1.13	.90
LNK306DG-TL	596-1239-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1.43	1.14	.86
LNK306DG-TL	596-1239-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher, Halogen Free	8-SOIC	1825.00/2,500		
LNK306GN-TL	596-1026-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.40	1.12	.84
LNK306GN-TL	596-1026-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	728.00/1,000		
LNK306PN	596-1027-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.33	1.06	.80
LinkSwitch®-XT — RoHS Compliant						
LNK362DG	596-1241-5-ND	Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-SOIC	1.17	.98	.78
LNK362PG	596-1240-5-ND	Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-Dip	1.08	.90	.72
LNK363DG	596-1243-5-ND	Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-SOIC	1.26	1.05	.84
LNK363GN-TL	596-1087-1-ND	Energy Eff., Low Power Off-Line Switcher	8-SMD	1.26	1.05	.84
LNK363GN-TL	596-1087-2-ND	Energy Eff., Low Power Off-Line Switcher	8-SMD	559.00/1,000		
LNK363PG	596-1242-5-ND	Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-Dip	1.17	.98	.78
LNK364DG	596-1245-5-ND	Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-SOIC	1.32	1.10	.88
LNK364GN-TL	596-1089-1-ND	Energy Eff., Low Power Off-Line Switcher	8-SMD	1.32	1.10	.88
LNK364PG	596-1244-5-ND	Energy Efficient, Low Power Off-Line Switcher, Hallogen Free	8-Dip	1.23	1.03	.82
PeakSwitch® — RoHS Compliant						
PKS604FN	596-1123-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.00	1.60	1.20
PKS604PN	596-1117-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	8-Dip	1.60	1.28	.96
PKS604YN	596-1120-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.00	1.60	1.20
PKS605FN	596-1124-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.13	1.70	1.28
PKS605YN	596-1121-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.13	1.70	1.28
PKS606FN	596-1125-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.40	1.92	1.44
PKS606PN	596-1119-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	8-Dip	2.08	1.66	1.25
PKS606YN	596-1122-5-ND	Enhanced, Energy Efficient, Off-Line Switcher, Super Peak Pwr Performance	TO-220-7	2.40	1.92	1.44
PKS607FN	596-1140-5-ND	Enhanced, Energy Eff., Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.41	1.93	1.50
TinySwitch® — RoHS Compliant						
TNY253GN-TL	596-1040-1-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY253GN-TL	596-1040-2-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	845.00/1,000		
TNY254GN-TL	596-1041-1-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY254GN-TL	596-1041-2-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	845.00/1,000		
TNY255GN-TL	596-1042-1-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	1.70	1.36	1.02
TNY255GN-TL	596-1042-2-ND	Energy Efficient, LP Off-Line Switcher	8-SMD	884.00/1,000		
TNY255PN	596-1170-5-ND	Energy Efficient, LP Off-Line Switcher	8-Dip	1.58	1.26	.95
TinySwitch® Plus — RoHS Compliant						
TNY256PN	596-1171-5-ND	Energy Efficient, LP Off-Line Switcher	8-Dip	1.90	1.52	1.14
TNY256YN	596-1218-5-ND	Energy Efficient, LP Off-Line Switcher	TO-220-7	2.33	1.86	1.40
TinySwitch®-II — RoHS Compliant						
TNY263PN	596-1045-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.35	1.13	.90
TNY264GN-TL	596-1046-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.35	1.08	.81
TNY264GN-TL	596-1046-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	702.00/1,000		
TNY264PG	596-1255-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-Dip	1.47	1.23	.98
TNY265PG	596-1256-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-Dip	1.28	1.02	.77
TNY266GN-TL	596-1050-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.50	1.20	.90
TNY266GN-TL	596-1050-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	780.00/1,000		

POWER INTEGRATIONS Digi-Reel® (Cont.) INTEGRATED POWER SWITCHING CONTROLLERS

Power Integrations Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY266PG	596-1257-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher, Halogen Free	8-Dip	1.38	1.10	.83
TNY267GN-TL	596-1052-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.70	1.36	1.02
TNY267GN-TL	596-1052-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	884.00/2,000		
TNY267PN	596-1053-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.58	1.26	.95
TNY268GN-TL	596-1054-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.85	1.48	1.11
TNY268GN-TL	596-1054-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	962.00/1,000		
TNY268PN	596-1055-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.73	1.38	1.04
TinySwitch®-III — RoHS Compliant						
TNY274GN-TL	596-1109-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.44	1.20	.96
TNY274GN-TL	596-1109-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	612.00/1,000		
TNY274PG	596-1258-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range, Halogen Free	8-Dip	1.35	1.13	.90
TNY275GN-TL	596-1110-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.25	1.00	.75
TNY275GN-TL	596-1110-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	665.00/1,000		
TNY275PG	596-1259-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range, Halogen Free	8-Dip	1.41	1.18	.94
TNY276GN-TL	596-1111-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.33	1.06	.80
TNY276GN-TL	596-1111-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	689.00/1,000		
TNY276PN	596-1092-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-Dip	1.25	1.00	.75
TNY277GN-TL	596-1112-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.45	1.16	.87
TNY277GN-TL	596-1112-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	754.00/1,000		
TNY277PG	596-1260-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range, Halogen Free	8-Dip	1.38	1.10	.83
TNY278GN-TL	596-1113-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.65	1.32	.99
TNY278GN-TL	596-1113-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	858.00/1,000		
TNY278PN	596-1094-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-Dip	1.58	1.26	.95
TNY279GN-TL	596-1114-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1.88	1.50	1.13
TNY279GN-TL	596-1114-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	975.00/1,000		
TNY279PN	596-1095-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-Dip	1.80	1.44	1.08
TNY280GN-TL	596-1115-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-SMD	1118.00/1,000		
TNY280PN	596-1096-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Pwr Range	8-Dip	2.08	1.66	1.25
TinySwitch®-PK — RoHS Compliant						
TNY375PN	596-1142-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.20	.96	.72
TNY376PN	596-1143-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.15	.92	.72
TNY377PN	596-1144-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.26	1.01	.79
TOPSwitch® — RoHS Compliant						
TOP103YN	596-1147-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.14	3.32	2.58
TOP104YN	596-1148-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.34	3.48	2.71
TOP200YN	596-1149-5-ND	3-Terminal Off-Line PWM Switch	TO-220	2.95	2.36	1.84
TOP201YN	596-1150-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.60	2.88	2.24
TOP202YN	596-1151-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.41	3.53	2.75
TOP204YN	596-1153-5-ND	3-Terminal Off-Line PWM Switch	TO-220	5.38	4.31	3.64
TOP210PN	596-1154-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.27	1.82	1.42
TOP414GN-TL	596-1083-1-ND	3-Terminal DC/DC PWM Switch	8-SMD	3.26	2.61	2.03
TOP414GN-TL	596-1083-2-ND	3-Terminal DC/DC PWM Switch	8-SMD	1849.00/1,000		
TOPSwitch®-GX — RoHS Compliant						
TOP242GN-TL	596-1065-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.38	1.90	1.43
TOP242GN-TL	596-1065-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1235.00/1,000		
TOP242PN	596-1066-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.25	1.80	1.35
TOP243GN-TL	596-1068-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.45	1.97	1.53
TOP243GN-TL	596-1068-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1390.00/1,000		
TOP243PN	596-1069-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.34	1.88	1.46
TOP243YN	596-1070-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.66	2.13	1.66

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

POWER INTEGRATIONS Digi-Reel® *(Cont.)* INTEGRATED POWER SWITCHING CONTROLLERS

Power Integrations Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TOP244FN	596-1166-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	2.95	2.36	1.84
TOP244GN-TL	596-1071-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.77	2.22	1.73
TOP244GN-TL	596-1071-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1568.00/1,000		
TOP244PN	596-1072-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.66	2.13	1.66
TOP244YN	596-1073-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.95	2.36	1.84
TOP245PN	596-1074-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.93	2.34	1.82
TOP245YN	596-1075-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.24	2.60	2.02
TOP246FN	596-1168-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	3.51	2.81	2.19
TOP246GN-TL	596-1196-1-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	3.33	2.67	2.08
TOP246GN-TL	596-1196-2-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1887.00/1,000		
TOP246PN	596-1076-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	3.22	2.58	2.01
TOP246YN	596-1077-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.51	2.81	2.19
TOP247YN	596-1078-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.80	3.05	2.37
TOP248YN	596-1079-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.07	3.26	2.54
TOP249YN	596-1080-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.37	3.50	2.72
TOP250FN	596-1169-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	4.93	3.95	3.07
TOP250YN	596-1081-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.93	3.95	3.07
TOPSwitch®-FX — RoHS Compliant						
TOP233GN-TL	596-1063-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.54	2.04	1.59
TOP234YN	596-1108-5-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.13	2.51	1.95
TOPSwitch®-II — RoHS Compliant						
TOP221PN	596-1155-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.35	1.88	1.41
TOP222GN-TL	596-1059-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.54	2.04	1.59
TOP222GN-TL	596-1059-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1441.00/1,000		
TOP222YN	596-1156-5-ND	3-Terminal Off-Line PWM Switch	TO-220	2.90	2.33	1.81
TOP223PN	596-1157-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.90	2.33	1.81
TOP223YN	596-1158-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.29	2.63	2.05
TOP224GN-TL	596-1061-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	3.33	2.67	2.08
TOP224GN-TL	596-1061-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1887.00/1,000		
TOP224PN	596-1159-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	3.29	2.63	2.05
TOP224YN	596-1160-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.69	2.96	2.30
TOP226YN	596-1162-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.46	3.57	2.78
TOP227YN	596-1163-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.84	3.87	3.01
TOPSwitch®-HX — RoHS Compliant						
TOP252EN	596-1202-5-ND	Enhanced EcoSmart®, Off-Line Switcher	7-CeSip	1.48	1.18	.89
TOP252GN-TL	596-1200-1-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	1.40	1.12	.84
TOP252GN-TL	596-1200-2-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	728.00/1,000		
TOP252PN	596-1199-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	1.33	1.06	.80
TOP253GN-TL	596-1204-1-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	1.53	1.22	.92
TOP253GN-TL	596-1204-2-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	793.00/1,000		
TOP253PN	596-1203-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	1.45	1.16	.87
TOP253MN	596-1205-5-ND	Enhanced EcoSmart®, Off-Line Switcher	10-CSDip	1.50	1.20	.90
TOP254EN	596-1207-5-ND	Enhanced EcoSmart®, Off-Line Switcher	7-CeSip	1.78	1.42	1.07
TOP254MN	596-1175-5-ND	Enhanced EcoSmart®, Off-Line Switcher	10-CSDip	1.80	1.44	1.08
TOP254YN	596-1176-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220	2.30	1.84	1.43
TOP255MN	596-1179-5-ND	Enhanced EcoSmart®, Off-Line Switcher	10-CSDip	1.95	1.56	1.17
TOP255PN	596-1177-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	1.90	1.52	1.14
TOP255YN	596-1180-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220	2.43	1.95	1.52
TOP256EG	596-1261-5-ND	Enhanced EcoSmart®, Off-Line Switcher, Hallogen Free	7-eSip	2.23	1.78	1.34
TOP256PN	596-1181-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	2.20	1.76	1.32
TOP256YN	596-1184-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220	2.70	2.16	1.68
TOP257EN	596-1210-5-ND	Enhanced EcoSmart®, Off-Line Switcher	7-CeSip	2.27	1.82	1.42
TOP257MN	596-1187-5-ND	Enhanced EcoSmart®, Off-Line Switcher	10C-SDip	2.30	1.84	1.43
TOP257PN	596-1185-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	2.25	1.80	1.40
TOP257YN	596-1188-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220	2.97	2.38	1.85
TOP258GN-TL	596-1190-1-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	2.59	2.07	1.61
TOP258GN-TL	596-1190-2-ND	Enhanced EcoSmart®, Off-Line Switcher	8-SMD	1466.00/1,000		
TOP258MN	596-1191-5-ND	Enhanced EcoSmart®, Off-Line Switcher	10C-SDip	2.57	2.06	1.60
TOP258PN	596-1189-5-ND	Enhanced EcoSmart®, Off-Line Switcher	8-Dip	2.52	2.02	1.57
TOP258YN	596-1192-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220	3.24	2.60	2.02
TOP259YN	596-1212-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220-7	2.97	2.38	1.85
TOP260YN	596-1214-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220-7	2.97	2.38	1.85
TOP261EN	596-1217-5-ND	Enhanced EcoSmart®, Off-Line Switcher	7-CeSip	3.47	2.78	2.16
TOP261YN	596-1216-5-ND	Enhanced EcoSmart®, Off-Line Switcher	TO-220-7	2.97	2.38	1.85
TOP262EN	596-1262-5-ND	Enhanced EcoSmart®, Off-Line Switcher	7-eSip	3.76	3.01	2.34

·M·C·C· Micro Commercial Components Digi-Reel® 78/79 SERIES VOLTAGE REGULATORS

RoHS Compliant

MCC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
MC78L05BP-AP	MC78L05BP-APMSCT-ND	5V, 100mA Positive Voltage Reg.	TO-92	.48	.34	.22
MC78L05BP-AP	MC78L05BP-APMSTB-ND	5V, 100mA Positive Voltage Reg.	TO-92	195.00/2,000		
MC78L05F-TP	MC78L05F-TPMSCT-ND	5V, 100mA Positive Voltage Reg.	SOT-89	.67	.51	.40
MC78L05F-TP	MC78L05F-TPMSTR-ND	5V, 100mA Positive Voltage Reg.	SOT-89	252.00/1,000		
MC78L06BP-AP	MC78L06BP-APMSCT-ND	6V, 100mA Positive Voltage Reg.	TO-92	.48	.34	.22
MC78L06BP-AP	MC78L06BP-APMSTB-ND	6V, 100mA Positive Voltage Reg.	TO-92	195.00/2,000		
MC78L06F-TP	MC78L06F-TPMSCT-ND	6V, 100mA Positive Voltage Reg.	SOT-89	.67	.51	.40
MC78L06F-TP	MC78L06F-TPMSTR-ND	6V, 100mA Positive Voltage Reg.	SOT-89	252.00/1,000		
MC78L09BP-AP	MC78L09BP-APMSCT-ND	9V, 100mA Positive Voltage Reg.	TO-92	.48	.34	.22

·M·C·C· Micro Commercial Components Digi-Reel® *(Cont.)* 78/79 SERIES VOLTAGE REGULATORS

RoHS Compliant

MCC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
MC78L09BP-AP	MC78L09BP-APMSTB-ND	9V, 100mA Positive Voltage Reg.	TO-92	195.00/2,000		
MC78L09F-TP	MC78L09F-TPMSCT-ND	9V, 100mA Positive Voltage Reg.	SOT-89	.67	.51	.40
MC78L09F-TP	MC78L09F-TPMSTR-ND	9V, 100mA Positive Voltage Reg.	SOT-89	252.00/1,000		
MC78L12BP-AP	MC78L12BP-APMSCT-ND	12V, 100mA Positive Voltage Reg.	TO-92	.48	.34	.22
MC78L12BP-AP	MC78L12BP-APMSTB-ND	12V, 100mA Positive Voltage Reg.	TO-92	195.00/2,000		
MC78L12F-TP	MC78L12F-TPMSCT-ND	12V, 100mA Positive Voltage Reg.	SOT-89	.67	.51	.40
MC78L12F-TP	MC78L12F-TPMSTR-ND	12V, 100mA Positive Voltage Reg.	SOT-89	252.00/1,000		
MC79L05BP-AP	MC79L05BP-APMSCT-ND	-5V, 100mA Negative Voltage Reg.	TO-92	.48	.34	.22
MC79L05BP-AP	MC79L05BP-APMSTB-ND	-5V, 100mA Negative Voltage Reg.	TO-92	195.00/2,000		
MC79L05F-TP	MC79L05F-TPMSCT-ND	-5V, 100mA Negative Voltage Reg.	SOT-89	.67	.51	.40
MC79L05F-TP	MC79L05F-TPMSTR-ND	-5V, 100mA Negative Voltage Reg.	SOT-89	252.00/1,000		
MC79L06BP-AP	MC79L06BP-APMSCT-ND	-6V, 100mA Negative Voltage Reg.	TO-92	.48	.34	.22
MC79L06BP-AP	MC79L06BP-APMSTB-ND	-6V, 100mA Negative Voltage Reg.	TO-92	195.00/2,000		
MC79L06F-TP	MC79L06F-TPMSCT-ND	-6V, 100mA Negative Voltage Reg.	SOT-89	.67	.51	.40
MC79L06F-TP	MC79L06F-TPMSTR-ND	-6V, 100mA Negative Voltage Reg.	SOT-89	252.00/1,000		
MC79L08BP-AP	MC79L08BP-APMSCT-ND	-8V, 100mA Negative Voltage Reg.	TO-92	.48	.34	.22
MC79L08BP-AP	MC79L08BP-APMSTB-ND	-8V, 100mA Negative Voltage Reg.	TO-92	195.00/2,000		
MC79L08F-TP	MC79L08F-TPMSCT-ND	-8V, 100mA Negative Voltage Reg.	SOT-89	.67	.51	.40
MC79L08F-TP	MC79L08F-TPMSTR-ND	-8V, 100mA Negative Voltage Reg.	SOT-89	252.00/1,000		
MC79L09F-TP	MC79L09F-TPMSCT-ND	-9V, 100mA Negative Voltage Reg.	SOT-89	.67	.51	.40
MC79L09F-TP	MC79L09F-TPMSTR-ND	-9V, 100mA Negative Voltage Reg.	SOT-89	252.00/1,000		
MC7805CT-BP	MC7805CT-BPMS-ND	5V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7806CT-BP	MC7806CT-BPMS-ND	6V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7808CT-BP	MC7808CT-BPMS-ND	8V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7809CT-BP	MC7809CT-BPMS-ND	9V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7810CT-BP	MC7810CT-BPMS-ND	10V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7812CT-BP	MC7812CT-BPMS-ND	12V, 1500mA Positive Voltage Reg.	TO-220	.56	.42	.33
MC7906CT-BP	MC7906CT-BPMS-ND	-6V, 1500mA Negative Voltage Reg.	TO-220	.56	.42	.33
MC7912CT-BP	MC7912CT-BPMS-ND	-12V, 1500mA Negative Volt. Reg.	TO-220	.56	.42	.33

FAIRCHILD SEMICONDUCTOR® 7400 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74125N-ND	Tri-State Quad Buffer	14-Dip	2.47	1.99	1.80

FAIRCHILD SEMICONDUCTOR® 74ABT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ABT125CSC-ND	Tri-State Quad Buffer, Non-Inverting	14-SOIC	.53	.40	.34
74ABT244CSC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.90	.73	.64
74ABT245CSC-ND	Tri-State Octal Bus Transceiver*	20-SOIC	.93	.73	.63
74ABT541CSC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.93	.73	.63

FAIRCHILD SEMICONDUCTOR® Digi-Reel® FAST™ ADVANCED CMOS TECHNOLOGY 74AC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
These are high speed CMOS devices with CMOS input switching levels and buffered CMOS outputs.					
74AC00PC-ND	Quad 2-Input NAND Gate	14-Dip	.63	.47	.41
74AC00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.30	.24
74AC00SCXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.49	.32	.27
74AC00SCXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	277.50/2,500		
74AC02MTCXCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.61	.40	.33
74AC02MTCXTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	347.50/2,500		
74AC02PC-ND	Quad 2-Input NOR Gate	14-Dip	.69	.54	.47
74AC02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.57	.38	.31
74AC02SCXCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOIC	.38	.25	.21
74AC04MTCXCT-ND	Hex Inverter* ***NEW!***	14-TSSOP	.46	.27	.22
74AC04PC-ND	Hex Inverter	14-Dip	.63	.47	.40
74AC04SC-ND	Hex Inverter	14-SOIC	.43	.29	.24
74AC04SCXCT-ND	Hex Inverter*	14-SOIC	.48	.32	.27
74AC04SCXTR-ND	Hex Inverter*	14-SOIC	275.00/2,500		
74AC08PC-ND	Quad 2-Input AND Gate	14-Dip	.63	.47	.41
74AC08SC-ND	Quad 2-Input AND Gate	14-SOIC	.44	.29	.24
74AC08SCXCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	.49	.32	.27
74AC08SCXTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	277.50/2,500		
74AC11SC-ND	Triple 3-Input AND Gate	14-SOIC	.43	.32	.28
74AC14MTCXCT-ND	Hex Inverter with Schmitt Trigger Input* ***NEW!***	14-TSSOP	.46	.30	.25
74AC14MTCXTR-ND	Hex Inverter with Schmitt Trigger Input* ***NEW!***	14-TSSOP	260.00/2,500		
74AC14PC-ND	Hex Inverter with Schmitt Trigger Input	14-Dip	.63	.47	.40
74AC14SC-ND	Hex Inverter with Schmitt Trigger Input	14-SOIC	.44	.29	.24
74AC14SCXCT-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	.48	.32	.26
74AC14SCXTR-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	275.00/2,500		
74AC20SCXCT-ND	Dual 4-Input NAND Gate*	14-SOIC	.65	.43	.35
74AC20SCXTR-ND	Dual 4-Input NAND Gate*	14-SOIC	370.00/2,500		
74AC32PC-ND	Quad 2-Input OR Gate	14-Dip	.63	.47	.41
74AC32SC-ND	Quad 2-Input OR Gate	14-SOIC	.44	.30	.24
74AC32SCXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.49	.33	.27
74AC32SCXTR-ND	Quad 2-Input OR Gate*	14-SOIC	277.50/2,500		
74AC74PC-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.70	.55	.48
74AC74SC-ND	Dual D-Type Flip-Flop with Set and Reset	14-SOIC	.43	.32	.28
74AC74SCXCT-ND	Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-SOIC	.50	.35	.30
74AC74SCXTR-ND	Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-SOIC	350.00/2,500		
74AC86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.33	.27
74AC109SC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-SOIC	.61	.46	.39
74AC125SC-ND	Tri-State Quad Buffer, Non-Inverting	14-SOIC	.46	.34	.29
74AC138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.71	.56	.49
74AC138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.55	.37	.30
74AC138SCXCT-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.62	.41	.34
74AC138SCXTR-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	350.00/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

FAST™ ADVANCED CMOS TECHNOLOGY 74AC

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74AC139SC-ND	Dual 1-of-4 Decoder/Demultiplexer* **NEW!**	16-SOIC	.50	.37	.32
74AC139SCXCT-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.58	.41	.35
74AC139SCXTR-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	407.50/2,500		
74AC151SC-ND	8-Input Fact Multiplexer	16-SOIC	.57	.42	.36
74AC157SC-ND	Quad 2-Input Multiplexer*	16-SOIC	.55	.41	.35
74AC161PC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.94	.73	.64
74AC161SC-ND	Synchronous Presettable 4-Bit Binary Counter	16-SOIC	.68	.50	.43
74AC163SC-ND	Synchronous Presettable Binary Counter*	16-SOIC	.68	.50	.43
74AC174SC-ND	Hex D-Type Flip-Flop	16-SOIC	.65	.49	.42
74AC175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.66	.49	.42
74AC191SCXCT-ND	Up/Down Counter with Preset and Ripple Clock*	16-SOIC	.69	.54	.48
74AC191SCXTR-ND	Up/Down Counter with Preset and Ripple Clock*	16-SOIC	570.00/2,500		
74AC244PC-ND	Tri-State Octal Buffer/Line Driver*	20-Dip	.84	.66	.57
74AC244SC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.63	.47	.40
74AC244SCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.72	.51	.44
74AC244SCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	224.00/1,000		
74AC245PC-ND	Tri-State Octal Bidirectional Transceiver*	20-Dip	.86	.67	.58
74AC245SC-ND	Tri-State Octal Bidirectional Transceiver* **NEW!**	20-SOIC	.66	.49	.42
74AC245SCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.77	.54	.47
74AC245SCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	237.00/1,000		
74AC251SCXCT-ND	Tri-State Output 8-Input Multiplexer*	16-SOIC	.68	.48	.41
74AC251SCXTR-ND	Tri-State Output 8-Input Multiplexer*	16-SOIC	480.00/2,500		
74AC257SC-ND	Quad 2-Input Multiplexer	16-SOIC	.58	.43	.37
74AC273PC-ND	Octal D-Type Flip-Flop*	20-Dip	1.03	.83	.73
74AC273SC-ND	Octal D-Type Flip-Flop	20-SOIC	.76	.59	.52
74AC273SCXCT-ND	Octal D-Type Flip-Flop*	20-SOIC	.84	.66	.58
74AC273SCXTR-ND	Octal D-Type Flip-Flop*	20-SOIC	306.00/1,000		
74AC299SC-ND	Octal Shift/Storage	20-SOIC	.89	.70	.61
74AC373PC-ND	Tri-State Octal Transparent Latch*	20-Dip	.88	.71	.62
74AC373SC-ND	Tri-State Octal Transparent Latch	20-SOIC	.72	.56	.49
74AC374SCXCT-ND	Tri-State Octal D-Type Flip-Flop* **NEW!**	20-SOIC	.73	.57	.50
74AC374SCXTR-ND	Tri-State Octal D-Type Flip-Flop* **NEW!**	20-SOIC	266.00/1,000		
74AC521SC-ND	8-Bit Comparator	20-SOIC	.67	.53	.46
74AC540SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.63	.47	.41
74AC541MTCXCT-ND	Octal Buffer/Line Drvr. w/Tri-State Output* **NEW!**	20-TSSOP	.59	.42	.36
74AC541MTCXTR-ND	Octal Buffer/Line Drvr. w/Tri-State Output* **NEW!**	20-TSSOP	415.00/2,500		
74AC541PC-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.84	.65	.57
74AC541SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.63	.47	.41
74AC541SCXCT-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	.73	.52	.45
74AC541SCXTR-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	227.00/1,000		
74AC574SC-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.76	.59	.52

74ACQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACQ544SC-ND	Tri-State Octal Inverting Registered Transceiver	20-SOIC	5.10	4.10	3.74

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACT00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.30	.24
74ACT00SCXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.49	.33	.27
74ACT00SCXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	280.00/2,500		
74ACT02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.50	.37	.32
74ACT02SCXCT-ND	Quad 2-Input NOR Gate* **NEW!**	14-SOIC	.43	.29	.24
74ACT04MTCXCT-ND	Hex Inverter* **NEW!**	14-TSSOP	.45	.30	.25
74ACT04MTCXTR-ND	Hex Inverter* **NEW!**	14-TSSOP	257.50/2,500		
74ACT04PC-ND	Hex Inverter	14-Dip	.63	.47	.40
74ACT04SC-ND	Hex Inverter	14-SOIC	.44	.29	.24
74ACT04SCXCT-ND	Hex Inverter* **NEW!**	14-SOIC	.48	.32	.26
74ACT04SCXTR-ND	Hex Inverter* **NEW!**	14-SOIC	275.00/2,500		
74ACT08SC-ND	Quad 2-Input AND Gate	14-SOIC	.43	.29	.24
74ACT08SCXCT-ND	Quad 2-Input AND Gate*	14-SOIC	.56	.37	.30
74ACT08SCXTR-ND	Quad 2-Input AND Gate*	14-SOIC	317.50/2,500		
74ACT14SC-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	.44	.30	.24
74ACT14SCXCT-ND	Hex Inverter with Schmitt Trigger Input* **NEW!**	14-SOIC	.49	.33	.27
74ACT14SCXTR-ND	Hex Inverter with Schmitt Trigger Input* **NEW!**	14-SOIC	280.00/2,500		
74ACT32SC-ND	Quad 2-Input OR Gate	14-SOIC	.44	.30	.24
74ACT32SCXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.49	.32	.27
74ACT32SCXTR-ND	Quad 2-Input OR Gate*	14-SOIC	277.50/2,500		
74ACT74MTCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	.62	.41	.34
74ACT74MTCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	355.00/2,500		
74ACT74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.71	.56	.49
74ACT74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.43	.32	.28
74ACT74SCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-SOIC	.50	.35	.30
74ACT74SCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-SOIC	352.50/2,500		
74ACT109SC-ND	Dual JK Flip-Flop	16-SOIC	.65	.48	.41
74ACT125MTCXCT-ND	Tri-State Output Quad Buffer*	14-TSSOP	.51	.36	.31
74ACT125MTCXTR-ND	Tri-State Output Quad Buffer*	14-TSSOP	357.50/2,500		
74ACT125SC-ND	Tri-State Output Quad Buffer	14-SOIC	.46	.34	.29
74ACT125SCXCT-ND	Tri-State Output Quad Buffer* **NEW!**	14-SOIC	.53	.37	.32
74ACT125SCXTR-ND	Tri-State Output Quad Buffer* **NEW!**	14-SOIC	372.50/2,500		
74ACT138PC-ND	1-of-8 Decoder/Demultiplexer*	16-Dip	.71	.56	.49
74ACT138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.58	.39	.32
74ACT138SCXCT-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.65	.43	.35
74ACT138SCXTR-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	367.50/2,500		
74ACT139SC-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.50	.37	.32
74ACT151PC-ND	8-Input Multiplexer	16-Dip	.86	.67	.58
74ACT157PC-ND	Quad 2-Input Multiplexer	16-Dip	.85	.67	.58
74ACT157SC-ND	Quad 2-Input Multiplexer	16-SOIC	.58	.43	.37
74ACT161SC-ND	Synchronous Presettable Binary Counter	16-SOIC	.68	.50	.43
74ACT163PC-ND	4-Bit Binary Counter Synchronous Receiver	16-Dip	.94	.73	.64
74ACT174SC-ND	Hex D-Type Flip-Flop with Master Reset	16-SOIC	.66	.49	.42
74ACT175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.60	.47	.41
74ACT240PC-ND	Tri-State Octal Buffer/Line Driver*	20-Dip	.84	.66	.57
74ACT240SC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.71	.53	.45
74ACT244MTCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	.58	.41	.35
74ACT244MTCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	407.50/2,500		
74ACT244PC-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.84	.66	.57
74ACT244SC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.41
74ACT244SCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.75	.53	.45
74ACT244SCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	230.00/1,000		
74ACT245MTCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.61	.43	.37

74ACT SERIES

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACT245MTCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	432.50/2,500		
74ACT245PC-ND	Tri-State Octal Bidirectional Transceiver*	20-Dip	.86	.67	.58
74ACT245SC-ND	Tri-State Octal Bidirectional Transceiver	20-SOIC	.64	.48	.41
74ACT245SCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.77	.55	.47
74ACT245SCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	239.00/1,000		
74ACT251PC-ND	8-Bit Multiplexer	16-Dip	.86	.67	.58
74ACT251SC-ND	8-Bit Multiplexer	16-SOIC	.59	.44	.38
74ACT257SC-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	.58	.43	.37
74ACT257SCXCT-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	.68	.48	.41
74ACT257SCXTR-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	475.00/2,500		
74ACT273MTC-ND	Octal D-Type Flip-Flop*	20-TSSOP	.72	.56	.49
74ACT373SC-ND	Tri-State Octal Transparent Latch	20-SOIC	.72	.56	.49
74ACT373SCXCT-ND	Tri-State Octal Transparent Latch*	20-SOIC	.74	.58	.51
74ACT373SCXTR-ND	Tri-State Octal Transparent Latch*	20-SOIC	269.00/1,000		
74ACT374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.72	.56	.49
74ACT521SC-ND	8-Bit Identity Comparator*	20-SOIC	.74	.58	.50
74ACT541MTCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	.68	.48	.41
74ACT541MTCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	475.00/2,500		
74ACT541SC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.65	.48	.42
74ACT573PC-ND	Tri-State Octal D-Type Latch	20-Dip	.96	.77	.68
74ACT573SCXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.83	.65	.57
74ACT573SCXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	303.00/1,000		
74ACT574SC-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.59	.51
74ACT715SC-ND	Programmable Video Sync Generator* **NEW!**	20-SOIC	10.11	8.29	7.48
74ACT899QC-ND	9-Bit Bidirectional Latch	28-PLCC	6.83	5.61	5.06

74ACTQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACTQ00SC-ND	Quad 2-Input NAND Gate, Quiet Series™*	14-SOIC	1.29	1.03	.91
74ACTQ10PC-ND	Triple 3-Input NAND Gate, Quiet Series™	14-Dip	1.14	.92	.81
74ACTQ14SC-ND	Hex Schmitt Trigger Inverting, Quiet Series™*	14-SOIC	1.29	1.03	.91
74ACTQ244SC-ND	Tri-State Octal Buffer/Line Driver, Quiet Series™*	20-SOIC	2.25	1.82	1.64
74ACTQ245MTC-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-TSSOP	2.57	2.08	1.87
74ACTQ245SC-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	2.25	1.82	1.64
74ACTQ245SCXCT-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	2.54	1.96	1.78
74ACTQ245SCXTR-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	1051.00/1,000		
74ACTQ273SC-ND	Octal D-Type Flip-Flop*	20-SOIC	2.25	1.82	1.64
74ACTQ541MTCXCT-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-TSSOP	2.90	2.24	2.04
74ACTQ541MTCXTR-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-TSSOP	2800.00/2,500		
74ACTQ541SCXCT-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-SOIC	2.90	2.24	2.04
74ACTQ541SCXTR-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-SOIC	1203.00/1,000		
74ACTQ573SCXCT-ND	Tri-State Output Quiet Series™ Octal Latch*	20-SOIC	2.54	1.96	1.78
74ACTQ573SCXTR-ND	Tri-State Output Quiet Series™ Octal Latch*	20-SOIC	1051.00/1,000		
74ACTQ574SC-ND	Tri-State Output Quiet Series™ Octal D-Type F/F*	20-SOIC	2.25	1.82	1.64
74ACTQ574SCXCT-ND	Tri-State Output Quiet Series™ Octal D-Type F/F*	20-SOIC	2.54	1.96	1.78
74ACTQ574SCXTR-ND	Tri-State Output Quiet Series™ Octal D-Type F/F*	20-SOIC	1051.00/1,000		
74ACTQ16541SSCXCT-ND	Tri-State 16-Bit Buffer/Line Driver*	48-SSOP	3.89	3.18	2.85

74ALS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74ALS14M-ND	Hex Inverter with Schmitt Trigger Inputs* **NEW!**	14-SOIC	1.63	1.32	1.19
DM74ALS74AN-ND	DL D-Type Pos.-Edge-Triggered F/F with Preset and Clear*	14-Dip	.69	.54	.47
DM74ALS138M-ND	Expandable 3/8 Decoder*	16-SOIC	.62	.49	.42
DM74ALS244AN-ND	Tri-State Octal Line Driver	20-Dip	.97	.78	.69
DM74ALS244AWM-ND	Tri-State Octal Line Driver*	20-SOIC	.82	.64	.56
DM74ALS245AN-ND	Tri-State Octal Bus Transceiver*	20-Dip	.99	.80	.70
DM74ALS245AWM-ND	Tri-State Octal Bus Transceiver*	20-SOIC	.84	.66	.57
DM74ALS373N-ND	Octal D-Type Latch*	20-Dip	1.16	.93	.82
DM74ALS540AN-ND	Octal Inverting Buffer and Line Driver	20-Dip	1.22	.98	.86
DM74ALS541N-ND	Octal Buffer/Line Driver with Tri-State Output*	20-Dip	1.22	.98	.86
DM74ALS541WM-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	1.00	.78	.68

74AS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74AS02N-ND	Quad 2-Input NOR Gate	14-Dip	.69	.54	.47
DM74AS10N-ND	Triple 3-Input NAND Gate	14-Dip	.69	.54	.47
DM74AS20N-ND	Dual 4-Input NAND Gate	14-Dip	.69	.54	.47
DM74AS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	1.39	1.13	1.01
DM74AS286N-ND	9-Bit Parity Generator/Checker	14-Dip	1.41	1.13	.99
DM74AS648NT-ND	Octal Bus Transceiver	24-Dip	5.80	4.67	4.25

74C00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74C00N-ND	Quad 2-Input NAND Gate	14-Dip	2.21	1.79	1.61
MM74C04N-ND	Hex Inverter (4069)	14-Dip	2.21	1.79	1.61
MM74C14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	1.15	.93	.81
MM74C14N-ND	Hex Schmitt Trigger Inverter (40106B)	14-Dip	1.15	.93	.81
MM74C74M-ND	Dual D-Type Flip Flop	14-SOIC	3.09	2.50	2.25
MM74C74N-ND	Dual D-Type Flip Flop	14-Dip	3.09	2.50	2.25
MM74C221N-ND	Dual Monostable with Schmitt Trigger	16-Dip	5.76	4.64	4.22
MM74C240N-ND	Tri-State Inverting Octal Buffer/Line Driver*	20-Dip	6.50	5.23	4.76
MM74C244N-ND	Tri-State Octal Buffer	20-Dip	6.50	5.23	4.76
MM74C373N-ND	Tri-State Octal D-Type Latch*	20-Dip	6.35	5.11	4.65
MM74C906M-ND	Hex Open Drain N-Channel Buffer	14-SOIC	3.18	2.56	2.33
MM74C906MXCT-ND	Hex Open Drain N-Channel Buffer*	14-SOIC	3.40	2.78	2.50
MM74C906MXTR-ND	Hex Open Drain N-Channel Buffer*	14-SOIC	3770.00/2,500		
MM74C906N-ND	Open Drain Buffer (Active Pull Down)	14-Dip	3.18	2.56	2.33
MM74C914M-ND	Hex Schmitt Trigger with Extended Input Voltage*	14-SOIC	5.15	4.14	3.77
MM74C914N-ND	Hex Schmitt Trigger with Extended Input Voltage	14-Dip	5.15	4.14	3.77
MM74C922WM-ND	16-Key Encoder*	20-SOIC	8.95	7.34	6.63
MM74C923N-ND	3V to 15V, 20-Key Encoder	20-Dip	10.19	8.36	7.54
MM74C923WM-ND	3V to 15V, 20-Key Encoder	20-SOIC	8.95	7.34	6.63
MM74C928N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.75	8.00	7.22
MM88C30N-ND	CMOS Dual Line Driver	14-Dip	8.22	6.74	6.08

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

74F FAST® ADVANCED SCHOTTKY TTL LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74F00PC-ND	Quad 2-Input NAND Gate	14-Dip	.71	.53	.45
74F00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.54	.36	.30
74F00SCXCT-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.53	.35	.29
74F02PC-ND	Quad 2-Input NOR Gate*	14-Dip	.66	.52	.45
74F04PC-ND	Hex Inverter	14-Dip	.79	.62	.54
74F04SC-ND	Hex Inverter	14-SOIC	.53	.39	.34
74F04SCXCT-ND	Hex Inverter* ***NEW!***	14-SOIC	.53	.35	.29
74F04SCXTR-ND	Hex Inverter* ***NEW!***	14-SOIC	435.00/2,500		
74F08PC-ND	Quad 2-Input AND Gate	14-Dip	.71	.53	.45
74F08SC-ND	Quad 2-Input AND Gate	14-SOIC	.53	.36	.29
74F14SC-ND	Hex Inverter Schmitt Trigger	14-SOIC	.64	.47	.41
74F32SC-ND	Quad 2-Input OR Gate	14-SOIC	.55	.37	.30
74F32SCXCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	.61	.41	.34
74F32SCXTR-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	350.00/2,500		
74F38PC-ND	Quad 2-Input NAND Buffer*	14-Dip	.79	.62	.54
74F38SC-ND	Quad 2-Input NAND Buffer	14-SOIC	.52	.39	.33
74F38SCXCT-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-SOIC	.61	.43	.37
74F38SCXTR-ND	Quad 2-Input NAND Buffer* ***NEW!***	14-SOIC	432.50/2,500		
74F74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.75	.58	.51
74F74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.48	.36	.31
74F86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.45	.34	.29
74F109PC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-Dip	.69	.54	.47
74F125SC-ND	Tri-State Quad Buffer	14-SOIC	.69	.52	.44
74F125SCXCT-ND	Tri-State Quad Buffer* ***NEW!***	14-SOIC	.59	.42	.36
74F125SCXTR-ND	Tri-State Quad Buffer* ***NEW!***	14-SOIC	540.00/2,500		
74F138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.89	.69	.61
74F138SC-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.69	.52	.44
74F139SC-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.67	.50	.43
74F157ASC-ND	Quad 2-Input Multiplexer	16-SOIC	.65	.49	.42
74F161APC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.91	.73	.64
74F244PC-ND	Tri-State Octal Line Driver	20-Dip	1.05	.84	.74
74F244SC-ND	Tri-State Octal Line Driver	20-SOIC	.93	.73	.63
74F244SCXCT-ND	Tri State Octal Buffer/Line Driver* ***NEW!***	20-SOIC	1.03	.80	.70
74F244SCXTR-ND	Tri State Octal Buffer/Line Driver* ***NEW!***	20-SOIC	373.00/1,000		
74F245PC-ND	Tri-State Octal Bus Transceiver	20-Dip	1.04	.83	.73
74F245SC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.92	.71	.62
74F273PC-ND	Octal D-Type Flip-Flop	20-Dip	1.04	.83	.73
74F373SC-ND	Octal Transparent Latch	20-SOIC	.89	.69	.60
74F521SC-ND	8-Bit Identity Comparator*	20-SOIC	.73	.57	.50
74F541SC-ND	Octal Buffer/Line Driver	20-SOIC	.96	.75	.65
74F552QC-ND	Octal Bidirectional Transceiver	28-PLCC	9.09	7.46	6.73
74F579PC-ND	8-Bit Bidirectional Counter	20-Dip	1.60	1.28	1.12

74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.41	.28	.23
MM74HC00MTCXCT-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	.63	.37	.30
MM74HC00MTCXTR-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	267.50/2,500		
MM74HC00MXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.50	.33	.27
MM74HC00MXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	285.00/2,500		
MM74HC00N-ND	Quad 2-Input NAND Gate	14-Dip	.55	.41	.35
MM74HC02M-ND	Quad 2-Input NOR Gate	14-SOIC	.45	.30	.25
MM74HC02MXCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.52	.34	.28
MM74HC02MXTR-ND	Quad 2-Input NOR Gate*	14-SOIC	292.50/2,500		
MM74HC02N-ND	Quad 2-Input NOR Gate	14-Dip	.56	.42	.36
MM74HC04M-ND	Hex Inverter	14-SOIC	.46	.31	.25
MM74HC04MXCT-ND	Hex Inverter*	14-SOIC	.51	.34	.28
MM74HC04MXTR-ND	Hex Inverter*	14-SOIC	292.50/2,500		
MM74HC04N-ND	Hex Inverter	14-Dip	.56	.42	.36
MM74HC08M-ND	Quad 2-Input AND Gate	14-SOIC	.41	.28	.23
MM74HC08MTCXCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	.63	.37	.30
MM74HC08MTCXTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	265.00/2,500		
MM74HC08MXCT-ND	Quad 2-Input AND Gate*	14-SOIC	.48	.32	.26
MM74HC08MXTR-ND	Quad 2-Input AND Gate*	14-SOIC	272.50/2,500		
MM74HC08N-ND	Quad 2-Input AND Gate	14-Dip	.55	.41	.35
MM74HC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.43	.29	.23
MM74HC14MTCXCT-ND	Hex Inverting Schmitt Trigger* ***NEW!***	14-TSSOP	.48	.32	.26
MM74HC14MTCXTR-ND	Hex Inverting Schmitt Trigger* ***NEW!***	14-TSSOP	275.00/2,500		
MM74HC14MXCT-ND	Hex Inverting Schmitt Trigger*	14-SOIC	.51	.34	.28
MM74HC14MXTR-ND	Hex Inverting Schmitt Trigger*	14-SOIC	292.50/2,500		
MM74HC14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.56	.42	.36
MM74HC32M-ND	Quad 2-Input OR Gate	14-SOIC	.41	.28	.23
MM74HC32MXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.46	.31	.25
MM74HC32MXTR-ND	Quad 2-Input OR Gate*	14-SOIC	260.00/2,500		
MM74HC32N-ND	Quad 2-Input OR Gate	14-Dip	.61	.46	.39
MM74HC74AM-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOIC	.46	.31	.25
MM74HC74AMXCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOIC	.51	.34	.28
MM74HC74AMXTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOIC	290.00/2,500		
MM74HC74AN-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.58	.43	.37
MM74HC74AMTCXCT-ND	Dual D-Type Flip Flop with Preset and Clear* ***NEW!***	14-TSSOP	.48	.32	.27
MM74HC74AMTCXTR-ND	Dual D-Type Flip Flop with Preset and Clear* ***NEW!***	14-TSSOP	275.00/2,500		
MM74HC86MFS-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.45	.30	.25
MM74HC86MXCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.50	.33	.27
MM74HC86MXTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	282.50/2,500		
MM74HC86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.57	.43	.37
MM74HC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.61	.48	.42
MM74HC123AN-ND	Dual Monostable Multivibrator	16-Dip	.95	.74	.64
MM74HC125M-ND	Tri-State Quad Buffer	14-SOIC	.45	.30	.25
MM74HC125MTCXCT-ND	Tri-State Quad Buffer*	14-TSSOP	.47	.31	.26
MM74HC125MTCXTR-ND	Tri-State Quad Buffer*	14-TSSOP	267.50/2,500		
MM74HC125MXCT-ND	Tri-State Quad Buffer* ***NEW!***	14-SOIC	.51	.34	.28
MM74HC125MXTR-ND	Tri-State Quad Buffer* ***NEW!***	14-SOIC	287.50/2,500		
MM74HC125N-ND	Tri-State Quad Buffer	14-Dip	.58	.43	.37
MM74HC126M-ND	Tri-State Quad Buffer	14-SOIC	.45	.30	.25
MM74HC126N-ND	Tri-State Quad Buffer	14-Dip	.58	.43	.37
MM74HC132M-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.41	.28	.23
MM74HC132MTCXCT-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-TSSOP	.62	.37	.30
MM74HC132MTCXTR-ND	Quad 2-Input NAND Schmitt Trigger* ***NEW!***	14-TSSOP	265.00/2,500		
MM74HC132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.55	.41	.35
MM74HC138M-ND	3-to-8 Line Decoder	16-SOIC	.57	.38	.31
MM74HC138MXCT-ND	3-to-8 Line Decoder*	16-SOIC	.64	.42	.35
MM74HC138MXTR-ND	3-to-8 Line Decoder*	16-SOIC	365.00/2,500		
MM74HC138N-ND	3-to-8 Line Decoder	16-Dip	.66	.52	.45

(Cont.) 74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HC151MXCT-ND	8-Channel Digital Multiplexer* ***NEW!***	16-SOIC	.65	.46	.40
MM74HC151MXTR-ND	8-Channel Digital Multiplexer* ***NEW!***	16-SOIC	460.00/2,500		
MM74HC151N-ND	8-Channel Multiplexer	16-Dip	.75	.59	.51
MM74HC154WM-ND	4-to-16 Line Decoder	24-SOIC	.94	.75	.66
MM74HC157MXCT-ND	Quad 2-Input Multiplexer*	16-SOIC	.69	.49	.42
MM74HC157MXTR-ND	Quad 2-Input Multiplexer*	16-SOIC	487.50/2,500		
MM74HC157N-ND	Quad 2-Input Multiplexer	16-Dip	.79	.61	.54
MM74HC164MXCT-ND	8-Bit Serial-In/Parallel-Out Shift Register*	14-SOIC	.59	.39	.32
MM74HC164MXTR-ND	8-Bit Serial-In/Parallel-Out Shift Register*	14-SOIC	335.00/2,500		
MM74HC164N-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.65	.48	.41
MM74HC165M-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.60	.47	.41
MM74HC165MXCT-ND	8-Bit Parallel-In Serial-Out Shift Register* ***NEW!***	16-SOIC	.66	.52	.46
MM74HC165MXTR-ND	8-Bit Parallel-In Serial-Out Shift Register* ***NEW!***	16-SOIC	545.00/2,500		
MM74HC165N-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.95	.74	.64
MM74HC174N-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.80	.63	.55
MM74HC175MXCT-ND	Quad D-Type Flip-Flop with Clear* ***NEW!***	16-SOIC	.59	.39	.32
MM74HC175MXTR-ND	Quad D-Type Flip-Flop with Clear* ***NEW!***	16-SOIC	337.50/2,500		
MM74HC175N-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.66	.51	.45
MM74HC240MTCXCT-ND	Tri-State Octal Inverter Bus/Line Driver*	20-TSSOP	.54	.38	.33
MM74HC240MTCXTR-ND	Tri-State Octal Inverter Bus/Line Driver*	20-TSSOP	380.00/2,500		
MM74HC240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.73	.57	.50
MM74HC240WMXCT-ND	Tri-State Octal Inverter Bus/Line Driver*	20-SOIC	.69	.49	.42
MM74HC240WMXTR-ND	Tri-State Octal Inverter Bus/Line Driver*	20-SOIC	214.00/1,000		
MM74HC244N-ND	Tri-State Octal Buffer	20-Dip	.73	.57	.50
MM74HC244WM-ND	Tri-State Octal Buffer	20-SOIC	.64	.48	.41
MM74HC244WMXCT-ND	Tri-State Octal Buffer*	20-SOIC	.75	.53	.46
MM74HC244WMXTR-ND	Tri-State Octal Buffer*	20-SOIC	233.00/1,000		
MM74HC245AMTCXCT-ND	Tri-State Octal Bus Transceiver*	20-SSOP	.61	.43	.37
MM74HC245AMTCXTR-ND	Tri-State Octal Bus Transceiver*	20-SSOP	430.00/2,500		
MM74HC245AN-ND	Tri-State Octal Bus Transceiver	20-Dip	.78	.61	.53
MM74HC245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.66	.49	.42
MM74HC251MXCT-ND	8-Channel Tri-State Multiplexer*	16-SOIC	.65	.46	.40
MM74HC251MXTR-ND	8-Channel Tri-State Multiplexer*	16-SOIC	460.00/2,500		
MM74HC251N-ND	8-Channel Tri-State Multiplexer	16-Dip	.75	.59	.51
MM74HC259M-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-SOIC	.60	.47	.41
MM74HC259MXCT-ND	8-Bit Addressable Latch/3-to-8 Line Decoder*	16-SOIC	.67	.52	.46
MM74HC259MXTR-ND	8-Bit Addressable Latch/3-to-8 Line Decoder*	16-SOIC	547.50/2,500		
MM74HC259N-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-Dip	.88	.69	.60
MM74HC273N-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.74	.57	.50
MM74HC273WM-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.61	.45	.39
MM74HC273WMXCT-ND	Octal D-Type Flip-Flop with Clear*	20-SOIC	.77	.54	.46
MM74HC273WMXTR-ND	Octal D-Type Flip-Flop with Clear*	20-SOIC	237.00/1,000		
MM74HC373MTCXCT-ND	Tri-State Octal D-Type Latch* ***NEW!***	20-TSSOP	.45	.30	.25
MM74HC373N-ND	Tri-State Octal D-Type Latch	20-Dip	.78	.61	.53
MM74HC373WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.66	.49	.42
MM74HC373WMXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.77	.54	.47
MM74HC373WMXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	237.00/1,000		
MM74HC374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.77	.60	.53
MM74HC374WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.48	.41
MM74HC374WMXCT-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.75	.53	.46
MM74HC374WMXTR-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	232.00/1,000		
MM74HC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.70	.52	.45
MM74HC393MXCT-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-SOIC	.81	.57	.49
MM74HC393MXTR-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-SOIC	570.00/2,500		
MM74HC393N-ND	Dual 4-Bit Binary Counter	14-Dip	.89	.69	.60
MM74HC540N-ND	Octal Inverting Buffer and Line Driver	20-Dip	.76	.60	.52
MM74HC541N-ND	Tri-State Octal Buffer	20-Dip	.78	.61	.53
MM74HC541WM-ND	Tri-State Octal Buffer	20-SOICW	.64	.48	.41
MM74HC573N-ND	Tri-State Octal D-Type Latch	20-Dip	.77	.60	.53
MM74HC573WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.48	.42
MM74HC573WMXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.75	.53	.46
MM74HC573WMXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	232.00/1,000		
MM74HC574N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.77	.60	.53
MM74HC574WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.66	.49	.42
MM74HC589M-ND	8-Bit Shift Register with Input Latches* ***NEW!***	16-SOIC	.83	.65	.56
MM74HC594MXCT-ND	8-Bit Shift Register with Output Registers*	16-SOIC	1.09	.85	.75
MM74HC594MXTR-ND	8-Bit Shift Register with Output Registers*	16-SOIC	897.50/2,500		
MM74HC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.43	.32	.28
MM74HC595MTCXCT-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	.63	.42	.34
MM74HC595MTCXTR-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	357.50/2,500		
MM74HC595MXCT-ND	8-Bit Shift Register with Output Latches*	16-SOIC	.50	.36	.31
MM74HC595MXTR-ND	8-Bit Shift Register with Output Latches*	16-SOIC	355.00/2,500		
MM74HC595N-ND	8-Bit Shift Register with Output Latches	16-Dip	.66	.51	.45
MM74HC688N-ND	8-Bit Magnitude Comparator (Equality Detector)	20-Dip	.93	.73	.63
MM74HC4040M-ND	12-Stage Binary Counter	16-SOIC	.66	.51	.45
MM74HC4040MXCT-ND	12-Stage Binary Counter* ***NEW!***	16-SOIC	.77	.60	.53
MM74HC4040MXTR-ND	12-Stage Binary Counter* ***NEW!***	16-SOIC	635.00/2,500		
MM74HC4040N-ND	12-Stage Binary Counter	16-Dip	.98	.76	.67
MM74HC4046M-ND	CMOS Phase-Lock-Loop	16-SOIC	.63	.49	.43
MM74HC4046N-ND	CMOS Phase-Lock-Loop	16-Dip	.91	.71	.62
MM74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.79	.62	.54
MM74HC4050MXCT-ND	Hex Logic Level Down Converter* ***NEW!***	16-SOIC	.71	.50	.43
MM74HC4050MXTR-ND	Hex Logic Level Down Converter* ***NEW!***	16-SOIC	500.00/2,500		
MM74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.69	.54	.47
MM74HC4051MXCT-ND	8-Channel Analog Multiplexer*	16-SOIC	.76	.59	.52
MM74HC4051MXTR-ND	8-Channel Analog Multiplexer*	16-SOIC	627.50/2,500		
MM74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.96	.75	.65
MM74HC4052M-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	.69	.54	.47
MM74HC4052MXCT-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	.76	.59	.52
MM74HC4052MXTR-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	627.50/2,500		
MM74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.96	.75	.65
MM74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.69	.54	.47
MM74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.96	.75	.65
MM74HC4060M-ND	14-Stage Binary Counter*	16-SOIC	.70	.55	.48
MM74HC4060N-ND	14-Stage Binary Counter	16-Dip	.98	.76	.67
MM74HC4066MXCT-ND	Quad Analog Switch* ***NEW!***	14-SOIC	.72	.51	.44
MM74HC4066MXTR-ND	Quad Analog Switch* ***NEW!***	14-SOIC	510.00/2,500		
MM74HC4066N-ND	Quad Analog Switch	14-Dip	.79	.62	.54
MM74HC4316N-ND	Quad Analog Switch	16-Dip	.87	.68	.59
MM74HC4538M-ND	Dual Retriggerable Monostable Multivibrator* ***NEW!***	16-SOIC	.73	.57	.50
MM74HC4538MXCT-ND	Dual Retriggerable Monostable Multivibrator*	16-SOIC	.80	.62	.55
MM74HC4538MXTR-ND	Dual Retriggerable Monostable Multivibrator*	16-SOIC	657.50/2,500		
MM74HC4538N-ND	Dual Retriggerable Monostable Multivibrator	16-Dip	.88	.71	.62

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

74HCT00 SERIES CMOS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HCT04M-ND	Hex Inverter	14-SOIC	.44	.30	.24
MM74HCT04MXCT-ND	Hex Inverter	14-SOIC	.49	.33	.27
MM74HCT04MXTR-ND	Hex Inverter	14-SOIC	280.00/2,500		
MM74HCT04N-ND	Hex Inverter	14-Dip	.56	.42	.36
MM74HCT05MXCT-ND	Hex Inverter ***NEW!***	14-SOIC	.51	.34	.28
MM74HCT05MXTR-ND	Hex Inverter ***NEW!***	14-SOIC	292.50/2,500		
MM74HCT08M-ND	Quad 2-Input AND Gate	14-SOIC	.43	.29	.24
MM74HCT14M-ND	Hex Inverting Schmitt Trigger	14-SOIC	.44	.30	.24
MM74HCT14MXCT-ND	Hex Inverting Schmitt Trigger ***NEW!***	14-SOIC	.49	.33	.27
MM74HCT14MXTR-ND	Hex Inverting Schmitt Trigger ***NEW!***	14-SOIC	280.00/2,500		
MM74HCT32MXCT-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	.42	.25	.20
MM74HCT74MXCT-ND	Dual D-Type Flip-Flop with Preset and Clear ***NEW!***	14-SOIC	.51	.34	.28
MM74HCT74MXTR-ND	Dual D-Type Flip-Flop with Preset and Clear ***NEW!***	14-SOIC	290.00/2,500		
MM74HCT138MXCT-ND	3-to-8 Line Decoder ***NEW!***	16-SOIC	.64	.42	.35
MM74HCT138MXTR-ND	3-to-8 Line Decoder ***NEW!***	16-SOIC	365.00/2,500		
MM74HCT138N-ND	3-to-8 Line Decoder	16-Dip	.66	.52	.45
MM74HCT164MXCT-ND	8-Bit Serial-In Parallel-Out Shift Register ***NEW!***	14-SOIC	.60	.40	.33
MM74HCT164MXTR-ND	8-Bit Serial-In Parallel-Out Shift Register ***NEW!***	14-SOIC	340.00/2,500		
MM74HCT244WMXCT-ND	Tri-State Octal Buffer	20-SOIC	.74	.52	.45
MM74HCT244WMXTR-ND	Tri-State Octal Buffer	20-SOIC	228.00/1,000		
MM74HCT244N-ND	Tri-State Octal Buffer	20-Dip	.76	.60	.52
MM74HCT244WM-ND	Tri-State Octal Buffer	20-SOIC	.64	.48	.41
MM74HCT245MTCXCT-ND	Tri-State Octal Transceiver ***NEW!***	20-TSSOP	.46	.31	.25
MM74HCT245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.78	.61	.53
MM74HCT245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.65	.49	.42
MM74HCT245WMXCT-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	.76	.53	.46
MM74HCT245WMXTR-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	234.00/1,000		
MM74HCT273N-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.74	.57	.50
MM74HCT273WMXCT-ND	Octal D-Type Flip-Flop with Clear ***NEW!***	20-SOIC	.70	.49	.42
MM74HCT273WMXTR-ND	Octal D-Type Flip-Flop with Clear ***NEW!***	20-SOIC	216.00/1,000		
MM74HCT373N-ND	Tri-State Octal D-Type Latch	20-Dip	.78	.61	.53
MM74HCT373WMXCT-ND	Tri-State Octal D-Type Latch	20-SOIC	.77	.54	.47
MM74HCT373WMXTR-ND	Tri-State Octal D-Type Latch	20-SOIC	237.00/1,000		
MM74HCT374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.78	.61	.53
MM74HCT541N-ND	Tri-State Octal Buffer	20-Dip	.76	.60	.52
MM74HCT541WMXCT-ND	Tri-State Octal Buffer ***NEW!***	20-SOIC	.74	.52	.45
MM74HCT541WMXTR-ND	Tri-State Octal Buffer ***NEW!***	20-SOIC	228.00/1,000		
MM74HCT573WM-ND	Tri-State Octal D-Type Latch ***NEW!***	20-SOIC	.66	.49	.42
MM74HCT573WMXCT-ND	Tri-State Octal D-Type Latch ***NEW!***	20-SOIC	.76	.54	.46
MM74HCT573WMXTR-ND	Tri-State Octal D-Type Latch ***NEW!***	20-SOIC	236.00/1,000		
MM74HCT574MTCXCT-ND	Tri-State Octal D-Type Flip-Flop ***NEW!***	20-TSSOP	.60	.43	.37
MM74HCT574MTCXTR-ND	Tri-State Octal D-Type Flip-Flop ***NEW!***	20-TSSOP	422.50/2,500		

74LCX SERIES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LCX00MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	.48	.32	.26
74LCX00MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	272.50/2,500		
74LCX00MXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.51	.34	.28
74LCX00MXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	290.00/2,500		
74LCX02MTCXCT-ND	Low Voltage Quad 2-Input NOR Gate	14-TSSOP	.80	.56	.49
74LCX02MTCXTR-ND	Low Voltage Quad 2-Input NOR Gate	14-TSSOP	565.00/2,500		
74LCX04M-ND	Low Voltage Hex Inverter	14-SOIC	.45	.30	.25
74LCX04MTC-ND	Low Voltage Hex Inverter	14-TSSOP	.47	.32	.26
74LCX04MTCXCT-ND	Low Voltage Hex Inverter	14-TSSOP	.53	.35	.29
74LCX04MTCXTR-ND	Low Voltage Hex Inverter	14-TSSOP	300.00/2,500		
74LCX04MXCT-ND	Low Voltage Hex Inverter	14-SOIC	.55	.37	.30
74LCX04MXTR-ND	Low Voltage Hex Inverter	14-SOIC	315.00/2,500		
74LCX07M-ND	Low Voltage Hex Buffer, Open Drain Output	14-SOIC	.51	.34	.28
74LCX07MTC-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	.48	.32	.26
74LCX07MTCXCT-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	.53	.35	.29
74LCX07MTCXTR-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	302.50/2,500		
74LCX07MXCT-ND	Low Voltage Hex Buffer, Open Drain Output ***NEW!***	14-SOIC	.56	.37	.31
74LCX07MXTR-ND	Low Voltage Hex Buffer, Open Drain Output ***NEW!***	14-SOIC	320.00/2,500		
74LCX08MTC-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	.44	.29	.24
74LCX08MTCXCT-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	.55	.36	.30
74LCX08MTCXTR-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	310.00/2,500		
74LCX08MXCT-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.58	.38	.31
74LCX08MXTR-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	327.50/2,500		
74LCX11MTCXCT-ND	Low Voltage Triple 3-Input AND Gate	14-TSSOP	.53	.35	.29
74LCX11MTCXTR-ND	Low Voltage Triple 3-Input AND Gate	14-TSSOP	305.00/2,500		
74LCX14M-ND	Low Voltage Hex Inverter	14-SOIC	.51	.34	.28
74LCX14MTC-ND	Low Voltage Hex Inverter	14-TSSOP	.48	.32	.26
74LCX14MTCXCT-ND	Low Voltage Hex Inverter	14-TSSOP	.53	.35	.29
74LCX14MTCXTR-ND	Low Voltage Hex Inverter	14-TSSOP	302.50/2,500		
74LCX14MXCT-ND	Low Voltage Hex Inverter	14-SOIC	.56	.37	.31
74LCX14MXTR-ND	Low Voltage Hex Inverter	14-SOIC	320.00/2,500		
74LCX32BQXCT-ND	Low Voltage Quad 2-Input OR Gate	14-DQFN	.69	.54	.48
74LCX32BQXTR-ND	Low Voltage Quad 2-Input OR Gate	14-DQFN	684.00/3,000		
74LCX32MTCXCT-ND	Low Voltage Quad 2-Input OR Gate	14-TSSOP	.55	.36	.30
74LCX32MTCXTR-ND	Low Voltage Quad 2-Input OR Gate	14-TSSOP	312.50/2,500		
74LCX32MXCT-ND	Low Voltage Quad 2-Input OR Gate	14-SOIC	.57	.38	.31
74LCX32MXTR-ND	Low Voltage Quad 2-Input OR Gate	14-SOIC	327.50/2,500		
74LCX38MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	.80	.57	.49
74LCX38MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	565.00/2,500		
74LCX74M-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	.52	.35	.29
74LCX74MTC-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-TSSOP	.50	.34	.27
74LCX74MTCXCT-ND	Low Volt. Dual D-Type Pos. Edge-Triggered F/F ***NEW!***	14-TSSOP	.44	.26	.21
74LCX74MXCT-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	.58	.38	.32
74LCX74MXTR-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	330.00/2,500		
74LCX86MTCXCT-ND	Low Voltage Quad 2-Input Exclusive OR Gate	14-TSSOP	.49	.32	.27
74LCX86MTCXTR-ND	Low Voltage Quad 2-Input Exclusive OR Gate	14-TSSOP	277.50/2,500		
74LCX112MXCT-ND	Low Voltage Dual J-K Negative Edge-Triggered F/F	16-SOIC	.38	.26	.21
74LCX125M-ND	Low Voltage Quad Buffer	14-SOIC	.50	.34	.28
74LCX125MTC-ND	Low Voltage Quad Buffer	14-TSSOP	.48	.32	.26
74LCX125MTCXCT-ND	Low Voltage Quad Buffer	14-TSSOP	.53	.35	.29
74LCX125MTCXTR-ND	Low Voltage Quad Buffer	14-TSSOP	302.50/2,500		
74LCX125MXCT-ND	Low Voltage Quad Buffer	14-SOIC	.56	.37	.30
74LCX125MXTR-ND	Low Voltage Quad Buffer	14-SOIC	317.50/2,500		
74LCX126BQXCT-ND	Low Voltage Quad Buffer	14-DQFN	.69	.54	.48
74LCX126BQXTR-ND	Low Voltage Quad Buffer	14-DQFN	684.00/3,000		
74LCX138M-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-SOIC	.48	.36	.31
74LCX138MTC-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	.47	.35	.30
74LCX138MTCXCT-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	.54	.38	.33

74LCX SERIES

(Cont.)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LCX138MTCXTR-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	380.00/2,500		
74LCX138MXCT-ND	Low Voltage 1-of-8 Decoder/Demultiplexer ***NEW!***	16-SOIC	.40	.27	.22
74LCX157MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	.50	.36	.31
74LCX157MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	355.00/2,500		
74LCX240MTCXCT-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.57	.41	.35
74LCX240MTCXTR-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	405.00/2,500		
74LCX244MTC-ND	Low Voltage Buffer/Line Driver	20-TSSOP	.50	.37	.32
74LCX244MTCXCT-ND	Low Voltage Buffer/Line Driver	20-TSSOP	.63	.45	.39
74LCX244MTCXTR-ND	Low Voltage Buffer/Line Driver	20-TSSOP	447.50/2,500		
74LCX244WM-ND	Low Voltage Buffer/Line Driver	20-SOIC	.69	.51	.44
74LCX244WMXCT-ND	Low Voltage Buffer/Line Driver	20-SOIC	.79	.56	.48
74LCX244WMXTR-ND	Low Voltage Buffer/Line Driver	20-SOIC	246.00/1,000		
74LCX245MTC-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	.56	.42	.36
74LCX245MTCXCT-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	.74	.52	.45
74LCX245MTCXTR-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	520.00/2,500		
74LCX245WM-ND	Low Voltage Bidirectional Transceiver	20-SOIC	.66	.51	.45
74LCX245WMXCT-ND	Low Voltage Bidirectional Transceiver	20-SOIC	.71	.56	.49
74LCX245WMXTR-ND	Low Voltage Bidirectional Transceiver	20-SOIC	259.00/1,000		
74LCX257MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	.51	.36	.31
74LCX257MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	357.50/2,500		
74LCX373MTC-ND	Low Voltage Octal Transparent Latch	20-TSSOP	.57	.43	.37
74LCX373MTCXCT-ND	Low Voltage Octal Transparent Latch	20-TSSOP	.65	.46	.40
74LCX373MTCXTR-ND	Low Voltage Octal Transparent Latch	20-TSSOP	460.00/2,500		
74LCX540BQXCT-ND	Low Voltage Octal Buffer/Line Driver	20-QFN	1.09	.84	.75
74LCX540BQXTR-ND	Low Voltage Octal Buffer/Line Driver	20-QFN	1074.00/3,000		
74LCX541MTC-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.57	.42	.36
74LCX541MTCXCT-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.65	.46	.40
74LCX541MTCXTR-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	460.00/2,500		
74LCX541WM-ND	Low Voltage Octal Buffer/Line Driver	20-SOIC	.61	.48	.42
74LCX573MTC-ND	Octal D-Type Latch	20-TSSOP	.56	.42	.36
74LCX574MTC-ND	Low Voltage Octal D-Type Flip-Flop ***NEW!***	20-TSSOP	.57	.43	.37
74LCX574MTCXCT-ND	Low Voltage Octal D-Type Flip-Flop	20-TSSOP	.65	.46	.40
74LCX574MTCXTR-ND	Low Voltage Octal D-Type Flip-Flop	20-TSSOP	460.00/2,500		
74LCX16244MEA-ND	Low Voltage 16-Bit Buffer/Line Driver	48-SSOP	2.02	1.63	1.47
74LCX16244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.91	.73	.64
74LCX16244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.99	.78	.71
74LCX16244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	389.00/1,000		
74LCX16245MTD-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	.91	.73	.64
74LCX16245MTDXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	.99	.78	.71
74LCX16245MTDXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	389.00/1,000		
74LCX16373MTD-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	.91	.73	.64
74LCX16373MTDXCT-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	.99	.78	.71
74LCX16373MTDXTR-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	389.00/1,000		
74LCX16374MTD-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	.91	.73	.64
74LCX16374MTDXCT-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	.99	.78	.71
74LCX16374MTDXTR-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	389.00/1,000		
74LCX16543MTDXCT-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	2.39	1.85	1.68
74LCX16543MTDXTR-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	990.00/1,000		
74LCX16646MTDXCT-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	2.39	1.85	1.68
74LCX16646MTDXTR-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	990.00/1,000		
74LCXR2245WMXCT-ND	Low Voltage Bidirectional Transceiver 5V In/Out	20-SOIC	.55	.36	.30
74LCXR162245MEA-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	2.02	1.63	1.47
74LCXR162245MTXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	1.04	.82	.74
74LCXR162245MTXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	410.00/1,000		

74LVT SERIES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVT244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.69	.53	.47
74LVT244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	565.00/2,500		
74LVT244WMXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-SOIC	.82	.64	.57
74LVT244WMXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-SOIC	299.00/1,000		
74LVT245MTC-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	.80	.63	.55
74LVT245MTCXCT-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	.89	.69	.61
74LVT245MTCXTR-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	735.00/2,500		
74LVT574MTCXCT-ND	Tri-State Low Voltage Octal D-Type Flip-Flop	20-TSSOP	.74	.57	.51
74LVT574MTCXTR-ND	Tri-State Low Voltage Octal D-Type Flip-Flop	20-TSSOP	605.00/2,500		
74LVT16244MTDXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.23	.97	.88
74LVT16244MTDXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	484.00/1,000		
74LVT16245MTD-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	1.23	.99	.87
74LVT16245MTDXCT-ND	Tri-State Low Voltage 16-Bit Transceiver	48-SSOP	1.34	1.06	.96
74LVT16245MTDXTR-ND	Tri-State Low Voltage 16-Bit Transceiver	48-SSOP	529.00/1,000		

74LVTH SERIES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVTH125MTCXCT-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	.53	.38	.32
74LVTH125MTCXTR-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	372.50/2,500		
74LVTH125MXCT-ND	Tri-State Low Voltage Quad Buffer	14-SOIC	.56	.40	.34
74LVTH125MXTR-ND	Tri-State Low Voltage Quad Buffer	14-SOIC	397.50/2,500		
74LVTH244MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.61	.48	.42
74LVTH244MTCXCT-ND	Tri-State Low Volt. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	.57	.40	.34
74LVTH244MTCXTR-ND	Tri-State Low Volt. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	562.50/2,500		
74LVTH16244MTDXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.23	.97	.88
74LVTH16244MTDXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	484.00/1,000		
74LVTH162245MTXCT-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	1.44	1.15	1.03
74LVTH162245MTXTR-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	570.00/1,000		
74LVTH16373MTDXCT-ND	Tri-State Low Voltage 16-Bit Transparent Latch	48-TSSOP	1.23	.98	.88
74LVTH16373MTDXTR-ND	Tri-State Low Voltage 16-Bit Transparent Latch	48-TSSOP	487.00/1,000		
74LVTH16244MTD-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.13	.91	.79
74LVTH16245MTD-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	1.31	1.05	.92

74LVX SERIES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVX04M-ND	Low Voltage Hex Inverter	14-SOIC	.44	.29	.24
74LVX14M-ND	Low Voltage Hex Inverter	14-SOIC	.44	.29	.24
74LVX14MTC-ND	Low Voltage Hex Inverter	14-TSSOP	.41	.28	.23
74LVX14MTCXCT-ND	Low Voltage Hex Inverter	14-TSSOP	.48	.32	.26
74LVX14MTCXTR-ND	Low Voltage Hex Inverter	14-TSSOP	272.50/2,500		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

74LVX SERIES
RoHS Compliant

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVX14MXCT-ND	Low Voltage Hex Inverter ***NEW!***	14-SOIC	.53	.35	.29
74LVX14MXTR-ND	Low Voltage Hex Inverter ***NEW!***	14-SOIC	302.50/2,500		
74LVX74M-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.51	.34	.28
74LVX74MTCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-TSSOP	.47	.32	.26
74LVX74MTCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-TSSOP	270.00/2,500		
74LVX125M-ND	Tri-State Low Voltage Quad Buffer	14-SOIC	.47	.31	.26
74LVX125MTCXCT-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	.47	.31	.26
74LVX125MTCXTR-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	267.50/2,500		
74LVX125SJXCT-ND	Tri-State Low Voltage Quad Buffer	14-SOP	.63	.45	.38
74LVX125SJXTR-ND	Tri-State Low Voltage Quad Buffer	14-SOP	354.00/2,000		
74LVX244M-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-SOIC	.60	.45	.38
74LVX244MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.50	.38	.32
74LVX244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.58	.41	.36
74LVX244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	410.00/2,500		
74LVX245M-ND	Low Voltage Octal Bidirectional Transceiver	20-SOIC	.66	.49	.42
74LVX245MTCXCT-ND	Low Voltage Octal Bidirectional Transceiver	20-TSSOP	.61	.43	.37
74LVX245MTCXTR-ND	Low Voltage Octal Bidirectional Transceiver	20-TSSOP	432.50/2,500		
74LVX541MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.51	.38	.33
74LVX3245MTC-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1.65	1.32	1.16
74LVX3245MTCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1.52	1.21	1.09
74LVX3245MTCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1405.00/2,500		
74LVX3245QSCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-QSOP	1.56	1.23	1.11
74LVX3245QSCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-QSOP	1432.50/2,500		
74LVX3245WM-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-SOIC	1.50	1.21	1.06
74LVX4245MTC-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1.29	1.04	.91
74LVX4245MTCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1.16	.92	.83
74LVX4245MTCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-TSSOP	1065.00/2,500		
74LVX4245WM-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-SOIC	1.25	1.00	.88
74LVX4245WMXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-SOIC	1.24	.98	.89
74LVX4245WMXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver	24-SOIC	490.00/1,000		
74LVXC3245MTC-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-TSSOP	1.03	.83	.73
74LVXC3245MTCXCT-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-TSSOP	1.12	.89	.80
74LVXC3245MTCXTR-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-TSSOP	1030.00/2,500		
74LVXC3245QSC-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-QSOP	1.43	1.15	1.01
74LVXC4245MTCXCT-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-TSSOP	1.12	.89	.80
74LVXC4245MTCXTR-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver	24-TSSOP	1030.00/2,500		

74S00 SERIES
SCHOTTKY TTL

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74S51N-ND	Dual 2-Input AND-OR-INV Gate*	14-Dip	.70	.55	.48
DM74S64N-ND	AND-OR-INV Gate	14-Dip	.90	.73	.64
DM74S941N-ND	Tri-State Octal Buffer	20-Dip	3.38	2.72	2.48

74VCX SERIES
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VCX16244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.29	1.03	.91
74VCX16244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.40	1.11	1.00
74VCX16244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	551.00/1,000		
74VCX16245MTDXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	1.90	1.50	1.35
74VCX16245MTDXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	748.00/1,000		
74VCX162244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.75	1.40	1.23
74VCX162244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.90	1.50	1.35
74VCX162244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	748.00/1,000		
74VCX163245MTDXCT-ND	Tri-State Low Volt. 16-Bit Dual Supply Translating Xcvr.	48-TSSOP	2.94	2.27	2.06
74VCX163245MTDXTR-ND	Tri-State Low Volt. 16-Bit Dual Supply Translating Xcvr.	48-TSSOP	1218.00/1,000		

74VHC SERIES
CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VHC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.41	.28	.23
74VHC00MTC-ND	Quad 2-Input NAND Gate*	14-TSSOP	.56	.33	.26
74VHC00MTCXCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.46	.31	.25
74VHC00MTCXTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	265.00/2,500		
74VHC02MTCXCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	.43	.25	.21
74VHC04M-ND	Hex Inverter	14-SOIC	.45	.30	.25
74VHC04MTCXCT-ND	Hex Inverter*	14-TSSOP	.44	.29	.24
74VHC04MTCXTR-ND	Hex Inverter*	14-TSSOP	250.00/2,500		
74VHC04MXCT-ND	Hex Inverter* ***NEW!***	14-SOIC	.47	.31	.26
74VHC04MXTR-ND	Hex Inverter* ***NEW!***	14-SOIC	270.00/2,500		
74VHC08M-ND	Quad 2-Input AND Gate	14-SOIC	.43	.29	.24
74VHC08MTC-ND	Quad 2-Input AND Gate*	14-TSSOP	.56	.33	.27
74VHC08MTCXCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.62	.37	.30
74VHC08MTCXTR-ND	Quad 2-Input AND Gate*	14-TSSOP	265.00/2,500		
74VHC08MXCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	.48	.32	.26
74VHC08MXTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOIC	272.50/2,500		
74VHC14M-ND	Hex Schmitt Inverter	14-SOIC	.46	.31	.25
74VHC14MTC-ND	Hex Schmitt Inverter*	14-TSSOP	.40	.27	.22
74VHC14MTCXCT-ND	Hex Schmitt Inverter*	14-TSSOP	.48	.32	.26
74VHC14MTCXTR-ND	Hex Schmitt Inverter*	14-TSSOP	270.00/2,500		
74VHC14MXCT-ND	Hex Schmitt Inverter*	14-SOIC	.47	.31	.26
74VHC14MXTR-ND	Hex Schmitt Inverter*	14-SOIC	267.50/2,500		
74VHC32M-ND	Quad 2-Input OR Gate	14-SOIC	.43	.29	.24
74VHC32MTCXCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.63	.37	.30
74VHC32MTCXTR-ND	Quad 2-Input OR Gate*	14-TSSOP	265.00/2,500		
74VHC32MXCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOIC	.43	.25	.21
74VHC74M-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOIC	.45	.30	.25
74VHC74MTC-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.43	.29	.23
74VHC74MTCXCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.48	.32	.26
74VHC74MTCXTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	270.00/2,500		
74VHC74MXCT-ND	Dual D-Type Flip-Flop w/Preset and Clear* ***NEW!***	14-SOIC	.43	.26	.21
74VHC86M-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.31	.25
74VHC86MTCXCT-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	.46	.31	.25
74VHC86MTCXTR-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	262.50/2,500		

74VHC SERIES
CMOS

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VHC123AM-ND	Dual Retriggerable Monostable Multivibrator	16-SOIC	.45	.34	.29
74VHC123AMTC-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	.43	.32	.28
74VHC123AMTCXCT-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	.65	.43	.36
74VHC123AMTCXTR-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	370.00/2,500		
74VHC125M-ND	Tri-State Quad Buffer*	14-SOIC	.45	.30	.25
74VHC125MTC-ND	Tri-State Quad Buffer*	14-TSSOP	.42	.28	.23
74VHC125MTCXCT-ND	Tri-State Quad Buffer*	14-TSSOP	.47	.31	.26
74VHC125MTCXTR-ND	Tri-State Quad Buffer*	14-TSSOP	265.00/2,500		
74VHC138M-ND	3-to-8 Decoder/Demultiplexer*	16-SOIC	.57	.38	.31
74VHC138MTCXCT-ND	3-to-8 Decoder/Demultiplexer* ***NEW!***	16-TSSOP	.42	.30	.26
74VHC139M-ND	Dual 2-to-4 Decoder/Demultiplexer	16-SOIC	.68	.50	.43
74VHC139MTC-ND	Dual 2-to-4 Decoder/Demultiplexer*	16-TSSOP	.61	.46	.39
74VHC157MTC-ND	Quad 2-Input Multiplexer	16-TSSOP	.56	.42	.36
74VHC244M-ND	Tri-State Octal Non-Inverting Buffer/Line Driver	20-SOIC	.59	.44	.38
74VHC244MTC-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	.46	.34	.29
74VHC244MTCXCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	.58	.41	.35
74VHC244MTCXTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	405.00/2,500		
74VHC245M-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.66	.49	.42
74VHC245MTC-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.52	.39	.34
74VHC245MTCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.60	.43	.37
74VHC245MTCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	425.00/2,500		
74VHC273MTCXCT-ND	Octal D-Type Flip-Flop*	20-TSSOP	.60	.43	.37
74VHC273MTCXTR-ND	Octal D-Type Flip-Flop*	20-TSSOP	425.00/2,500		
74VHC373M-ND	Tri-State Octal D-Type Latch	20-SOIC	.66	.49	.42
74VHC374MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.52	.39	.33
74VHC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.63	.49	.43
74VHC393MTC-ND	Dual 4-Bit Binary Counter	14-SSOP	.64	.50	.44
74VHC393MTCXCT-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-TSSOP	.70	.55	.48
74VHC393MTCXTR-ND	Dual 4-Bit Binary Counter* ***NEW!***	14-TSSOP	577.50/2,500		
74VHC541M-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.65	.48	.41
74VHC541MTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.51	.38	.32
74VHC573M-ND	Tri-State Octal D-Type Latch	20-SOIC	.64	.48	.41
74VHC573MTC-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.51	.38	.33
74VHC573MTCXCT-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.59	.42	.36
74VHC573MTCXTR-ND	Tri-State Octal D-Type Latch*	20-TSSOP	417.50/2,500		
74VHC574MTC-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.51	.38	.33
74VHC574MTCXCT-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.60	.43	.37
74VHC574MTCXTR-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	422.50/2,500		
74VHC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.57	.38	.31
74VHC595MTCXCT-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	.64	.42	.35
74VHC595MTCXTR-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	365.00/2,500		
74VHC595MXCT-ND	8-Bit Shift Register with Output Latches*	16-SOIC	.64	.42	.35
74VHC595MXTR-ND	8-Bit Shift Register with Output Latches*	16-SOIC	365.00/2,500		
74VHC4040M-ND	12-Stage Binary Counter*	16-SOIC	.81	.63	.55
74VHC4040MTC-ND	12-Stage Binary Counter*	16-TSSOP	.76	.60	.52
74VHC4316M-ND	Quad Analog Switch with Level Translator*	16-SOIC	.71	.53	.45

74VHCT SERIES
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VHCT08AM-ND	Quad 2-Input AND Gate	14-SOIC	.45	.30	.25
74VHCT08AMTCXCT-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.31	.25
74VHCT08AMTCXTR-ND	Quad 2-Input AND Gate	14-TSSOP	262.50/2,500		
74VHCT14AMXCT-ND	Hex Schmitt Inverter	14-SOIC	.53	.35	.29
74VHCT14AMXTR-ND	Hex Schmitt Inverter	14-SOIC	302.50/2,500		
74VHCT244AMTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.37	.32
74VHCT244AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.41	.35
74VHCT244AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	410.00/2,500		
74VHCT245AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.43	.37
74VHCT245AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	425.00/2,500		

4000 SERIES
CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CD4001BCM-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.32	.26
CD4001BCMXCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.54	.36	.29
CD4001BCMXTR-ND	Quad 2-Input NOR Gate*	14-SOIC	305.00/2,500		
CD4001BCN-ND	Quad 2-Input NOR Gate	14-Dip	.65	.49	.42
CD4011BCM-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.33	.27
CD4011BCMXCT-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.54	.36	.29
CD4011BCMXTR-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	305.00/2,500		
CD4011BCN-ND	Quad 2-Input NAND Gate	14-Dip	.59	.44	.38
CD4013BCM-ND	Dual D-Type Flip-Flop	14-SOIC	.58	.39	.32
CD4013BCMXCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.64	.42	.35
CD4013BCMXTR-ND	Dual D-Type Flip-Flop*	14-SOIC	365.00/2,500		
CD4013BCN-ND	Dual D-Type Flip-Flop	14-Dip	.61	.48	.42
CD4016BCM-ND	Quad Bilateral Switch	14-SOIC	.48	.32	.26
CD4016BCN-ND	Quad Bilateral Switch	14-Dip	.59	.44	.38
CD4021BCM-ND	8-Stage Static Shift Register*	16-SOIC	.62	.46	.40
CD4021BCMXCT-ND	8-Stage Static Shift Register* ***NEW!***	16-SOIC	.72	.51	.44
CD4021BCMXTR-ND	8-Stage Static Shift Register* ***NEW!***	16-SOIC	510.00/2,500		
CD4021BCN-ND	8-Stage Static Shift Register*	16-Dip	.79	.62	.54
CD4047BCM-ND	Low Power Monostable/Astable Multivibrator*	14-SOIC	.50	.37	.32
CD4047BCMXCT-ND	Low Power Monostable/Astable Multivibrator* ***NEW!***	14-SOIC	.58	.41	.35
CD4047BCMXTR-ND	Low Power Monostable/Astable Multivibrator* ***NEW!***	14-SOIC	410.00/2,500		
CD4047BCN-ND	Low Power Monostable/Astable Multivibrator	14-Dip	.71	.55	.48
CD4049UBCM-ND	Hex Inverting Buffer	16-SOIC	.52	.39	.33
CD4049UBCMXCT-ND	Hex Inverting Buffer* ***NEW!***	16-SOIC	.60	.43	.37
CD4049UBCMXTR-ND	Hex Inverting Buffer* ***NEW!***	16-SOIC	422.50/2,500		
CD4049UBCN-ND	Hex Inverting Buffer*	16-PDip	.71	.56	.48
CD4050BCM-ND	Hex Non-Inverting Buffer*	16-SOIC	.52	.39	.33
CD4050BCMXCT-ND	Hex Non-Inverting Buffer* ***NEW!***	16-SOIC	.60	.43	.37
CD4050BCMXTR-ND	Hex Non-Inverting Buffer* ***NEW!***	16-SOIC	422.50/2,500		
CD4050BCN-ND	Hex Non-Inverting Buffer	16-Dip	.72	.56	.49
CD4051BCM-ND	8-Channel Analog Mux/Demux	16-SOIC	.67	.50	.43
CD4051BCMXCT-ND	8-Channel Analog Mux/Demux*	16-SOIC	.77	.55	.47
CD4051BCMXTR-ND	8-Channel Analog Mux/Demux*	16-SOIC	545.00/2,500		
CD4051BCN-ND	8-Channel Analog Mux/Demux	16-Dip	.90	.70	.61
CD4052BCM-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.67	.50	.43
CD4052BCMXCT-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.77	.55	.47
CD4052BCMXTR-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	545.00/2,500		
CD4052BCN-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.90	.70	.61
CD4053BCM-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.67	.50	.43

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

FAIRCHILD SEMICONDUCTOR Digi-Reel® (Cont.)

4000 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CD4053BCMXCT-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.77	.55	.47
CD4053BCMXTR-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	545.00/2,500		
CD4053BCN-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.90	.70	.61
CD4060BCM-ND	14-Stage Binary Counter/Oscillator	16-SOIC	.69	.51	.44
CD4060BCMXCT-ND	14-Stage Binary Counter* **NEW!**	16-SOIC	.80	.56	.48
CD4060BCMXTR-ND	14-Stage Binary Counter* **NEW!**	16-SOIC	562.50/2,500		
CD4060BCN-ND	14-Bit Binary Counter/Oscillator	16-Dip	.84	.66	.57
CD4066BCM-ND	Quad Bilateral Switch	14-SOIC	.55	.37	.30
CD4066BCMXCT-ND	Quad Bilateral Switch*	14-SOIC	.61	.41	.33
CD4066BCMXTR-ND	Quad Bilateral Switch*	14-SOIC	347.50/2,500		
CD4066BCN-ND	Quad Bilateral Switch	14-Dip	.71	.53	.45
CD4069UBCM-ND	Inverter Circuit	14-SOIC	.48	.32	.26
CD4069UBCMXCT-ND	Inverter Circuit*	14-SOIC	.53	.35	.29
CD4069UBCMXTR-ND	Inverter Circuit*	14-SOIC	302.50/2,500		
CD4069UBCN-ND	Inverter Circuit*	14-Dip	.59	.44	.38
CD4093BCM-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.52	.35	.28
CD4093BCMXCT-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	.58	.38	.32
CD4093BCMXTR-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	330.00/2,500		
CD4093BCN-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.68	.51	.44
CD4538BCM-ND	Dual Precision Monostable Multivibrator*	16-SOIC	.63	.49	.43
CD4538BCMXCT-ND	Dual Precision Monostable Multivibrator* **NEW!**	16-SOIC	.46	.33	.28
CD4538BCMXTR-ND	Dual Precision Monostable Multivibrator* **NEW!**	16-SOIC	570.00/2,500		
CD4538BCN-ND	Dual Precision Monostable Multivibrator	16-Dip	.89	.69	.61
CD4541BCM-ND	Programmable Timer*	14-SOIC	.54	.40	.35
CD4541BCN-ND	Programmable Timer	14-Dip	.74	.58	.51
CD40106BCM-ND	Hex Schmitt Trigger*	14-SOIC	.55	.37	.30
CD40106BCMXCT-ND	Hex Schmitt Trigger*	14-SOIC	.62	.41	.34
CD40106BCMXTR-ND	Hex Schmitt Trigger*	14-SOIC	350.00/2,500		
CD40106BCN-ND	Hex Schmitt Trigger	14-Dip	.62	.49	.42

FAIRCHILD SEMICONDUCTOR Digi-Reel®

FMS SERIES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FMS3818KRC-ND	3x8-Bit, 180Ms/s, Triple Video DAC	48-LQFP	14.85	12.49	11.48
FMS6141CSXCT-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	.74	.52	.45
FMS6141CSXTR-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	522.50/2,500		
FMS6141S5XCT-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	SC70-5	.74	.52	.45
FMS6141S5XTR-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	SC70-5	627.00/3,000		
FMS6143CSXCT-ND	3-Ch., 4th Order Standard Definition Video Filter Driver	8-SOIC	.99	.77	.68
FMS6143CSXTR-ND	3-Ch., 4th Order Standard Definition Video Filter Driver	8-SOIC	815.00/2,500		
FMS6145MTC14XCT-ND	5-Ch., 4th Order Standard Definition Video Filter Driver	14-TSSOP	1.71	1.35	1.22
FMS6146MTC14XCT-ND	6-Ch., 4th Order Standard Definition Video Filter Driver	14-TSSOP	1.71	1.35	1.22
FMS6146MTC14XTR-ND	6-Ch., 4th Order Standard Definition Video Filter Driver	14-TSSOP	1575.00/2,500		
FMS6203MTC1406XCT-ND	3-Channel, Video Filter Driver	14-TSSOP	2.10	1.62	1.47
FMS6203MTC1406XTR-ND	3-Channel, Video Filter Driver	14-TSSOP	2025.00/2,500		
FMS6303MTC1406XCT-ND	3-Channel, 6th Order SD/ED/HD Video Filter Drvr. **NEW!**	14-TSSOP	1.75	1.35	1.23
FMS6346MTC20XCT-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	2.52	1.95	1.77
FMS6346MTC20XTR-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	2430.00/2,500		
FMS6363CSXCT-ND	3-Channel, 6th Order High Definition Video Filter Driver	8-SOIC	1.24	.99	.89
FMS6400CS1XCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	2.03	1.57	1.43
FMS6400CS1XTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1957.50/2,500		
FMS6403MTC20XCT-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals	20-TSSOP	3.60	2.94	2.64
FMS6403MTC20XTR-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals	20-TSSOP	3990.00/2,500		
FMS6406CSXCT-ND	Precision S-Video Filter with Summed Composite Output, Sound Trap, and Group Delay Compensation	8-SOIC	3.06	2.50	2.25
FMS6408MTC141XCT-ND	Triple Video Filter Driver for RGB/YUV Signals	14-TSSOP	2.50	1.94	1.76
FMS6414CSXCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	2.70	2.08	1.89
FMS6414CSXTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	2271.50/2,500		
FMS6501MSA28XCT-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	5.55	4.54	4.07
FMS6501MSA28XTR-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	4922.00/2,000		
FMS6502MTC24XCT-ND	8-Input, 6-Output Video Switch Matrix	24-TSSOP	3.00	2.45	2.20
FMS6502MTC24XTR-ND	8-Input, 6-Output Video Switch Matrix	24-TSSOP	3325.00/2,500		
FMS6690MTC20XCT-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	2.66	2.06	1.87
FMS6690MTC20XTR-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	2565.00/2,500		
FMS7401LEN14-ND	Digital Power Controller	14-Dip	4.47	3.60	3.28
FMS7401LEN-ND	Digital Power Controller	8-Dip	4.71	3.79	3.46
FMS7401LVN14-ND	Digital Power Controller	14-Dip	4.47	3.60	3.28
FMS7401LVN-ND	Digital Power Controller	8-Dip	3.80	3.06	2.78

FAIRCHILD SEMICONDUCTOR Digi-Reel®

LINEAR ICs

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN21SV04EMPXCT-ND	4A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator **NEW!**	25-MLP	2.87	2.22	2.01
FAN21SV04MPXCT-ND	4A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator **NEW!**	25-MLP	2.41	1.87	1.69
FAN21SV04MPXTR-ND	4A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator **NEW!**	25-MLP	2916.00/3,000		
FAN21SV06EMPXCT-ND	6A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator	25-MLP	3.18	2.60	2.34
FAN21SV06EMPXTR-ND	6A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator	25-MLP	4230.00/3,000		
FAN21SV06MPXCT-ND	6A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator	25-MLP	2.52	1.95	1.77
FAN21SV06MPXTR-ND	6A, 24V Single-Input Integrated TinyBuck™ Sync. Buck Regulator	25-MLP	2916.00/3,000		
FAN50FC3MPXCT-ND	8-Bit Prog., 2-to-3 Phase FastvCore Buck Controller	32-MLP	2.72	2.23	2.00
FAN50FC3MPXTR-ND	8-Bit Prog., 2-to-3 Phase FastvCore Buck Controller	32-MLP	4191.00/3,000		
FAN2001MPXCT-ND	1A, Adj. High-Eff. Step-Down DC/DC Converter	6-MLP	1.86	1.44	1.30
FAN2001MPXTR-ND	1A, Adj. High-Eff. Step-Down DC/DC Converter	6-MLP	2148.00/3,000		
FAN2002MPXCT-ND	1A, Adj. High-Eff. Step-Down DC/DC Converter	6-MLP	1.86	1.44	1.30
FAN2002MPXTR-ND	1A, Adj. High-Eff. Step-Down DC/DC Converter	6-MLP	2148.00/3,000		
FAN2103EMPXCT-ND	3A, 24V Input Integrated Sync. TinyBuck™ Buck Regulator	25-MLP	3.01	2.33	2.11
FAN2103EMPXTR-ND	3A, 24V Input Integrated Sync. TinyBuck™ Buck Regulator	25-MLP	3483.00/3,000		

FAIRCHILD SEMICONDUCTOR Digi-Reel® (Cont.)

LINEAR ICs

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN2103MPXCT-ND	3A, 24V Input Integrated Sync. TinyBuck™ Buck Regulator	25-MLP	2.52	1.95	1.77
FAN2103MPXTR-ND	3A, 24V Input Integrated Sync. TinyBuck™ Buck Regulator	25-MLP	2916.00/3,000		
FAN2106MPXCT-ND	6A, 24V Input Integrated Sync. TinyBuck™ Reg.	25-MLP	3.33	2.57	2.33
FAN2106MPXTR-ND	6A, 24V Input Integrated Sync. TinyBuck™ Reg.	25-MLP	3849.00/3,000		
FAN2108EMPXCT-ND	8A, 3V-24V, Integrated Synchronous TinyBuck™ Regulator **NEW!**	25MLP	3.81	3.11	2.80
FAN2108MPXCT-ND	8A, 3V-24V, Integrated Sync. TinyBuck™ Reg.	25-MLP	3.60	2.94	2.64
FAN2108MPXTR-ND	8A, 3V-24V, Integrated Sync. TinyBuck™ Reg.	25-MLP	4788.00/3,000		
FAN2110EMPXCT-ND	10A, 5V Integrated Sync. TinyBuck™ Reg. **NEW!**	25-MLP	3.99	3.26	2.93
FAN2110MPXCT-ND	10A, 5V Integrated Sync. TinyBuck™ Reg. **NEW!**	25-MLP	3.63	2.97	2.66
FAN2110MPXTR-ND	10A, 5V Integrated Sync. TinyBuck™ Reg. **NEW!**	25-MLP	5028.00/3,000		
FAN3100CMPXCT-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1.03	.81	.73
FAN3100CMPXTR-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1134.00/3,000		
FAN3100CSXCT-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1.06	.82	.72
FAN3100CSXTR-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1044.00/3,000		
FAN3100TMPXCT-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1.03	.81	.73
FAN3100TMPXTR-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1134.00/3,000		
FAN3100TSXCT-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1.06	.82	.72
FAN3100TSXTR-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1044.00/3,000		
FAN3111CSXCT-ND	Single 1A High Speed, Low Side Gate Driver	SOT-23-5	.88	.68	.60
FAN3111CSXTR-ND	Single 1A High Speed, Low Side Gate Driver	SOT-23-5	870.00/3,000		
FAN3111ESXCT-ND	Single 1A High Speed, Low Side Gate Driver **NEW!**	SOT-23-5	.88	.68	.60
FAN3111ESXTR-ND	Single 1A High Speed, Low Side Gate Driver **NEW!**	SOT-23-5	870.00/3,000		
FAN3121CMPXCT-ND	Single 9A High Speed, Low Side Gate Driver	8-MLP	1.72	1.33	1.21
FAN3121CMPXTR-ND	Single 9A High Speed, Low Side Gate Driver	8-MLP	2310.00/3,000		
FAN3121TMPXCT-ND	Single 9A High Speed, Low Side Gate Driver	8-MLP	1.72	1.33	1.21
FAN3121TMXCT-ND	Single 9A High Speed, Low Side Gate Driver	8-SOIC	1.82	1.41	1.28
FAN3121TMXTR-ND	Single 9A High Speed, Low Side Gate Driver	8-SOIC	1755.00/2,500		
FAN3122CMPXCT-ND	Single 9A High Speed, Low Side Gate Driver	8-MLP	1.72	1.33	1.21
FAN3122CMPXTR-ND	Single 9A High Speed, Low Side Gate Driver	8-MLP	2310.00/3,000		
FAN3122CMXCT-ND	Single 9A High Speed, Low Side Gate Driver	8-SOIC	1.82	1.41	1.28
FAN3122CMXTR-ND	Single 9A High Speed, Low Side Gate Driver	8-SOIC	1755.00/2,500		
FAN3223CMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1.75	1.38	1.25
FAN3223CMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1932.00/3,000		
FAN3223CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1.60	1.26	1.14
FAN3223CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1470.00/2,500		
FAN3223TMXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1.60	1.26	1.14
FAN3223TMXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1470.00/2,500		
FAN3224CMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1932.00/3,000		
FAN3224CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1.60	1.26	1.14
FAN3224CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1470.00/2,500		
FAN3224TMXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1.60	1.26	1.14
FAN3224TMXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1470.00/2,500		
FAN3225CMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1.75	1.38	1.25
FAN3225CMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1932.00/3,000		
FAN3225CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1.60	1.26	1.14
FAN3225CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-SOIC	1470.00/2,500		
FAN3225TMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1.75	1.38	1.25
FAN3225TMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver	8-MLP	1932.00/3,000		
FAN3226CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.21	.96	.86
FAN3226CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3226TMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.41	1.11	1.00
FAN3226TMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3226TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3226TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3227CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3227CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3227TMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.41	1.11	1.00
FAN3227TMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3227TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3227TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3228CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.41	1.11	1.00
FAN3228CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3228CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3228CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3229CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.41	1.11	1.00
FAN3229CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3229CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3229CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3229TMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1.41	1.11	1.00
FAN3229TMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-MLP	1554.00/3,000		
FAN3229TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1.25	.99	.90
FAN3229TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver	8-SOIC	1155.00/2,500		
FAN3268TMXCT-ND	2A Low Voltage PMOS-NMOS Bridge Driver **NEW!**	8-SOIC	1.08	.86	.77
FAN3800MLP24XCT-ND	Mono/Stereo Audio Amp	24-MLP	1.25	.99	.90
FAN3988IL6X_F113CT-ND	USB/Charger and Over-Voltage Detection Device **NEW!**	6-MLP	.92	.72	.63
FAN3988IL6X_F113TR-ND	USB/Charger and Over-Voltage Detection Device **NEW!**	6-MLP	1420.00/5,000		
FAN3989MLP8XCT-ND	USB/Charger Detection Device with Load Switch	8-MLP	1.41	1.11	1.00
FAN3989MLP8XTR-ND	USB/Charger Detection Device with Load Switch	8-MLP	1806.00/3,000		
FAN4010IL6X_F113CT-ND	High Side Current Sensor	6-MLP	.88	.68	.60
FAN4010IL6X_F113TR-ND	High Side Current Sensor	6-MLP	1350.00/5,000		
FAN5031MPXCT-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	3.11	2.54	2.28
FAN5031MPXTR-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	4788.00/3,000		
FAN5032MPXCT-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	3.11	2.54	2.28
FAN5033MPXCT-ND	8-Bit Prog. 2 to 3 Phase Sync. Buck Controller	32-MLP	1.84	1.42	1.29
FAN5059MXCT-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms	24-SOIC	2.32	1.86	1.45
FAN5059MXTR-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms	24-SOIC	1243.96/1,000		
FAN5066MXCT-ND	Ultra Low Voltage Sync. DC/DC Controller	20-SOIC	2.69	2.08	1.89
FAN5066MXTR-ND	Ultra Low Voltage Sync. DC/DC Controller	20-SOIC	1116.16/1,000		
FAN5068MPXCT-ND	DDR-1/DDR-2 Plus ACPI Regulator	24-MLP	2.21	1.71	1.55
FAN5068MPXTR-ND	DDR-1/DDR-2 Plus ACPI Regulator	24-MLP	2553.00/3,000		
FAN5078D3MPXCT-ND	Complete ACPI Compliant Power Solution for DDR3 Memory System	24-MLP	2.02	1.56	1.42
FAN5078MPXCT-ND	DDR/ACPI Regulator Combo	24-MLP	2.35	1.81	1.65
FAN5078MPXTR-ND	DDR/ACPI Regulator Combo	24-MLP	2715.00/3,000		
FAN5094MTCXCT-ND	Multi-Phase Interleaved Buck Converter	28-TSSOP	6.00	4.90	4.40
FAN5094MTCXTR-ND	Multi-Phase Interleaved Buck Converter	28-TSSOP	5900.00/2,500		
FAN5110MXCT-ND	2-Phase, Bootstrapped, 12V MOSFET Half Bridge Driver	16-SOIC	1.14	.91	.82
FAN5307S18XCT-ND	High Efficiency Step-Down DC/DC Converter	SOT-23-5	1.79	1.41	1.27
FAN5307S18XTR-ND	High Efficiency Step-Down DC/DC Converter	SOT-23-5	1974.00/3,000		

* *RoHS Compliant* — ★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★ — *(Continued)*

LINEAR ICs

RoHS Compliant

FAIRCHILD SEMICONDUCTOR DigiReel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN5331SXCT-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	SOT-23-5	1.03	.81	.73
FAN5331SXTR-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	SOT-23-5	1134.00/3,000		
FAN5336MPXCT-ND	1.5MHz Boost Reg. with 33V Integrated FET Switch	6-MLP	1.81	1.40	1.27
FAN5336MPXTR-ND	1.5MHz Boost Reg. with 33V Integrated FET Switch	6-MLP	2430.00/3,000		
FAN5350UCXCT-ND	3MHz, 600mA Step-Down DC/DC Converter	5-WLCSP	1.86	1.44	1.30
FAN5350UCXTR-ND	3MHz, 600mA Step-Down DC/DC Converter	5-WLCSP	2148.00/3,000		
FAN5355MP00XCT-ND	3MHz Digitally Programmable DC/DC Converter	10-MLP	1.72	1.33	1.21
FAN5355UC00XCT-ND	3MHz Digitally Programmable DC/DC Converter	12-WLCSP	1.99	1.54	1.40
FAN5355UC03XCT-ND	3MHz Digitally Programmable DC/DC Converter ***NEW!***	12-WLCSP	1.99	1.54	1.40
FAN5361UC123XCT-ND	6MHz, 600mA Synchronous Buck Regulator ***NEW!***	6-WLCSP	1.47	1.17	1.05
FAN5361UC182XCT-ND	6MHz, 600mA TinyBuck™ Sync. Buck Regulator	6-WLCSP	1.71	1.35	1.22
FAN5361UC182XTR-ND	6MHz, 600mA TinyBuck™ Sync. Buck Regulator	6-WLCSP	1890.00/3,000		
FAN5361UMP15XCT-ND	6MHz, 600mA TinyBuck™ Synchronous Buck Regulator ***NEW!***	6-UMLP	1.60	1.26	1.14
FAN5361UMP15XTR-ND	6MHz, 600mA TinyBuck™ Synchronous Buck Regulator ***NEW!***	6-UMLP	1764.00/3,000		
FAN5607HMPXCT-ND	LED Dvr. with Adaptive Charge Pump DC/DC Conv.	16-MLP	1.75	1.35	1.23
FAN5611MPXCT-ND	LDO LED Driver for White, Blue, or any Color LED	6-MLP	1.71	1.35	1.22
FAN5611MPXTR-ND	LDO LED Driver for White, Blue, or any Color LED	6-MLP	1890.00/3,000		
FAN5616MPXCT-ND	High Efficiency, Constant Current LED Driver	16-MLP	1.48	1.17	1.06
FAN5616MPXTR-ND	High Efficiency, Constant Current LED Driver	16-MLP	1638.00/3,000		
FAN5617MPXCT-ND	High Efficiency, Constant Current LED Driver	16-MLP	1.28	1.01	.91
FAN5631MPXCT-ND	Regulated Step Down Charge Pump DC/DC Conv.	10-MLP	1.51	1.17	1.06
FAN5646S700XCT-ND	Programmable Indicator LED Blinker ***NEW!***	SC70-5	1.06	.82	.72
FAN5646S700XTR-ND	Programmable Indicator LED Blinker ***NEW!***	SC70-5	1044.00/3,000		
FAN5646S701XCT-ND	Programmable Indicator LED Blinker ***NEW!***	SC70-5	1.06	.82	.72
FAN5646S701XTR-ND	Programmable Indicator LED Blinker ***NEW!***	SC70-5	1044.00/3,000		
FAN5646UC00XCT-ND	Programmable Indicator LED Blinker ***NEW!***	4-WLCSP	1.06	.82	.72
FAN5646UC00XTR-ND	Programmable Indicator LED Blinker ***NEW!***	4-WLCSP	1044.00/3,000		
FAN5646UC01XCT-ND	Programmable Indicator LED Blinker ***NEW!***	4-WLCSP	1.06	.82	.72
FAN5646UC01XTR-ND	Programmable Indicator LED Blinker ***NEW!***	4-WLCSP	1044.00/3,000		
FAN5665UCXCT-ND	High Efficiency, Adaptive Charge Pump 5V Boost	8-WLCSP	1.79	1.38	1.25
FAN5665UCXTR-ND	High Efficiency, Adaptive Charge Pump 5V Boost	8-WLCSP	2067.00/3,000		
FAN7080CMX_F085CT-ND	Half Bridge Gate Driver	8-SOIC	2.41	1.87	1.69
FAN7080CMX_F085TR-ND	Half Bridge Gate Driver	8-SOIC	2700.00/2,500		
FAN7083CMX_F085CT-ND	High Side Gate Driver	8-SOIC	2.53	1.96	1.78
FAN7083CMX_F085TR-ND	High Side Gate Driver	8-SOIC	2835.00/2,500		
FAN7085CMX_F085CT-ND	High Side Gate Driver	8-SOIC	2.78	2.15	1.95
FAN7085CMX_F085TR-ND	High Side Gate Driver	8-SOIC	3105.00/2,500		
FAN7311BMXCT-ND	LCD Backlight Inverter Driver	20-SOIC	1.37	1.09	.98
FAN7311N-ND	LCD Backlight Inverter Driver	20-Dip	1.39	1.13	1.01
FAN7313M-ND	LCD Backlight Inverter Driver	20-SOIC	1.54	1.24	1.09
FAN7314AMXCT-ND	LCD Backlight Inverter Driver	20-SOIC	1.80	1.42	1.28
FAN7314AMXTR-ND	LCD Backlight Inverter Driver	20-SOIC	709.00/1,000		
FAN7314M-ND	LCD Backlight Inverter Driver	20-SOIC	1.80	1.42	1.28
FAN7316MXCT-ND	LCD Backlight Inverter Driver	20-SOIC	1.31	1.04	.93
FAN7316MXTR-ND	LCD Backlight Inverter Driver	20-SOIC	709.00/1,000		
FAN7317M-ND	LCD Backlight Inverter Driver	20-SOIC	2.42	1.95	1.76
FAN7318MXCT-ND	LCD Backlight Inverter Driver ***NEW!***	20-SOIC	1.26	1.00	.90
FAN7318MXTR-ND	LCD Backlight Inverter Driver ***NEW!***	20-SOIC	943.00/1,000		
FAN7361MXCT-ND	High Side Gate Driver	8-SOIC	1.28	1.01	.91
FAN7361MXTR-ND	High Side Gate Driver	8-SOIC	1410.00/3,000		
FAN7362MXCT-ND	High Side Gate Driver	8-SOP	1.40	1.11	1.00
FAN7362MXTR-ND	High Side Gate Driver	8-SOP	1545.00/3,000		
FAN7371MXCT-ND	High Current High Side Gate Driver	8-SOP	1.28	1.01	.91
FAN7371MXTR-ND	High Current High Side Gate Driver	8-SOP	1410.00/3,000		
FAN7380MXCT-ND	Half Bridge Gate Driver	8-SOIC	1.52	1.20	1.08
FAN7380MXTR-ND	Half Bridge Gate Driver	8-SOIC	1677.00/3,000		
FAN7382M1XCT-ND	High and Low Side Gate Driver	14-SOP	1.79	1.38	1.25
FAN7382M1XTR-ND	High and Low Side Gate Driver	14-SOP	2067.00/3,000		
FAN7382MXCT-ND	High and Low Side Gate Driver	8-SOP	1.88	1.49	1.34
FAN7382MXTR-ND	High and Low Side Gate Driver	8-SOP	2079.00/3,000		
FAN7383M-ND	Half Bridge Gate Driver	14-SOP	1.64	1.33	1.20
FAN7384MXCT-ND	Half Bridge Gate Driver	14-SOP	2.00	1.54	1.40
FAN7384MXTR-ND	Half Bridge Gate Driver	14-SOP	2310.00/3,000		
FAN7385M-ND	Dual Channel High Side Gate Driver	14-SOP	1.64	1.33	1.20
FAN7385MXCT-ND	Dual Channel High Side Gate Driver	14-SOP	1.86	1.44	1.30
FAN7385MXTR-ND	Dual Channel High Side Gate Driver	14-SOP	2148.00/3,000		
FAN7387MXCT-ND	Self-Oscillated, High Voltage Gate Driver	8-SOP	1.71	1.35	1.22
FAN7387MXTR-ND	Self-Oscillated, High Voltage Gate Driver	8-SOP	1890.00/3,000		
FAN7387N-ND	Self-Oscillated, High Voltage Gate Driver	8-Dip	1.58	1.26	1.11
FAN7387VN-ND	Ballast Control IC for Compact Fluorescent Lamp ***NEW!***	8-Dip	1.62	1.30	1.14
FAN7388MXCT-ND	3 Half-Bridge Gate Driver	20-SOIC	3.15	2.43	2.21
FAN7388MXTR-ND	3 Half-Bridge Gate Driver	20-SOIC	1305.00/1,000		
FAN7390M1XCT-ND	High Current, High and Low Side Gate Driver	14-SOP	2.72	2.10	1.91
FAN7390M1XTR-ND	High Current, High and Low Side Gate Driver	14-SOP	3147.00/3,000		
FAN7390MXCT-ND	High Current, High and Low Side Gate Driver	8-SOP	3.15	2.43	2.21
FAN7390MXTR-ND	High Current, High and Low Side Gate Driver	8-SOP	3645.00/3,000		
FAN7390N-ND	High Current, High and Low Side Gate Driver	8-Dip	2.41	1.95	1.75
FAN7392MXCT-ND	High Current, High and Low Side Gate Driver ***NEW!***	16-SOP	3.15	2.43	2.21
FAN7392MXTR-ND	High Current, High and Low Side Gate Driver ***NEW!***	16-SOP	1005.00/1,000		
FAN7392N-ND	High Current, High and Low Side Gate Driver ***NEW!***	14-Dip	2.15	1.74	1.56
FAN7532MXCT-ND	Ballast Control IC	16-SOP	2.66	2.06	1.87
FAN7532MXTR-ND	Ballast Control IC	16-SOP	3078.00/3,000		
FAN7544MXCT-ND	Simple Ballast Controller	8-SOP	1.14	.91	.82
FAN7710N-ND	Ballast Control IC for Compact Fluorescent Lamp	8-Dip	2.36	1.90	1.71
FAN7710SN-ND	Ballast Control IC for Compact Fluorescent Lamp	8-Dip	1.82	1.47	1.33
FAN7711MXCT-ND	Ballast Control for a Fluorescent Lamp	8-SOP	1.90	1.47	1.34
FAN7711MXTR-ND	Ballast Control for a Fluorescent Lamp	8-SOP	2148.00/3,000		
FAN7711N-ND	Ballast Control for a Fluorescent Lamp	8-Dip	1.64	1.33	1.20
FAN7842MXCT-ND	High and Low Side Gate Driver	8-SOP	1.43	1.13	1.02
FAN7842MXTR-ND	High and Low Side Gate Driver	8-SOP	1575.00/3,000		
FAN7888MXCT-ND	3 Half-Bridge Gate Driver	20-SOIC	2.38	1.84	1.67
FAN7888MXTR-ND	3 Half-Bridge Gate Driver	20-SOIC	986.00/1,000		
FAN8082DTFCT-ND	Bidirectional DC Motor Driver	8-SOP	.79	.62	.55
FAN8301MXCT-ND	2A, 16V Non-Sync. Step-Down DC/DC Reg.	8-SOIC	1.71	1.35	1.22
FAN8301MXTR-ND	2A, 16V Non-Sync. Step-Down DC/DC Reg.	8-SOIC	1575.00/2,500		
FAN8303MXCT-ND	2A, 23V Non-Sync. Step-Down DC/DC Reg.	8-SOIC	1.71	1.35	1.22
FAN8303MXTR-ND	2A, 23V Non-Sync. Step-Down DC/DC Reg.	8-SOIC	1575.00/2,500		
FAN8741GXCT-ND	Spindle Motor and 6-Channel Driver	56-SSOP-HS	2.00	1.60	1.20
FAN8741GXTR-ND	Spindle Motor and 6-Channel Driver	56-SSOP-HS	999.92/1,000		
FAN8741MTFXCT-ND	Spindle Motor and 6-Channel Driver	56-TSSOP-EP	1.88	1.50	1.13
FAN8741MTFXTR-ND	Spindle Motor and 6-Channel Driver	56-TSSOP-EP	937.43/1,000		

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FAIRCHILD SEMICONDUCTOR DigiReel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN73711MXCT-ND	High Side Gate Driver ***NEW!***	8-SOP	1.10	.87	.78
FAN73711MXTR-ND	High Side Gate Driver ***NEW!***	8-SOP	1212.00/3,000		
FAN73832M-ND	Half Bridge Gate Driver	8-SOP	1.73	1.39	1.22
FAN73832MXCT-ND	Half Bridge Gate Driver	8-SOP	1.88	1.49	1.34
FAN73832MXTR-ND	Half Bridge Gate Driver	8-SOP	2079.00/3,000		
FAN73833MXCT-ND	Half Bridge Gate Driver	8-SOP	1.86	1.44	1.30
FAN73833MXTR-ND	Half Bridge Gate Driver	8-SOP	2148.00/3,000		
FDC6301NCT-ND	Dual N-Channel, Digital FET	SSOT-6	.57	.38	.31
FDC6301NTR-ND	Dual N-Channel, Digital FET	SSOT-6	390.00/3,000		
FDC6303NCT-ND	Digital FET, Dual N-Channel	SSOT-6	.65	.43	.35
FDC6303NTR-ND	Digital FET, Dual N-Channel	SSOT-6	441.00/3,000		
FDC6323LCT-ND	Integrated Load Switch	SSOT-6	.81	.57	.49
FDC6323LTR-ND	Integrated Load Switch	SSOT-6	684.00/3,000		
FDC6324LCT-ND	Integrated Load Switch	SSOT-6	.69	.49	.42
FDC6324LTR-ND	Integrated Load Switch	SSOT-6	585.00/3,000		
FDC6329LCT-ND	Integrated Load Switch	SSOT-6	.69	.54	.48
FDC6329LTR-ND	Integrated Load Switch	SSOT-6	684.00/3,000		
FDC6330LCT-ND	Integrated Load Switch	SSOT-6	.69	.54	.48
FDC6330LTR-ND	Integrated Load Switch	SSOT-6	684.00/3,000		
FDC6331LCT-ND	Integrated Load Switch	SSOT-6	.83	.65	.57
FDC6331LTR-ND	Integrated Load Switch	SSOT-6	822.00/3,000		
FDG901DCT-ND	Slew Rate Control Driver IC for P-Channel MOSFET	SC70-5	1.28	1.02	.92
FDG901DTR-ND	Slew Rate Control Driver IC for P-Channel MOSFET	SC70-5	1419.00/3,000		
FDG6303NCT-ND	Dual N-Channel, Digital FET	SC70-6	.53	.32	.26
FDG6303NTR-ND	Dual N-Channel, Digital FET	SC70-6	273.00/3,000		
FDG6304PCT-ND	Dual P-Channel, Digital FET	SC70-6	.52	.37	.32
FDG6304PTR-ND	Dual P-Channel, Digital FET	SC70-6	438.00/3,000		
FDG6322CCT-ND	Dual N and P-Channel, Digital FET	SC70-6	.50	.35	.30
FDG6322CTR-ND	Dual N and P-Channel, Digital FET	SC70-6	420.00/3,000		
FDG6323LCT-ND	Integrated Load Switch	SC70-6	.50	.36	.31
FDG6323LTR-ND	Integrated Load Switch	SC70-6	426.00/3,000		
FDG6331LCT-ND	Integrated Load Switch ***NEW!***	SC70-6	.49	.32	.27
FDG6331LTR-ND	Integrated Load Switch ***NEW!***	SC70-6	333.00/3,000		
FDG6342LCT-ND	Integrated Load Switch	SC70-6	.57	.38	.31
FDG6342LTR-ND	Integrated Load Switch	SC70-6	390.00/3,000		
FDMF8704CT-ND	High Eff./Frequency FET and Driver Module	56-MLP	5.70	4.66	4.18
FDMF8704TR-ND	High Eff./Frequency FET and Driver Module	56-MLP	7581.00/3,000		
FDMF8704VCT-ND	High Efficiency/Frequency FET and Driver Module with Voltage Regulator	56-MLP	5.70	4.66	4.18
FDMF8704VTR-ND	High Efficiency/Frequency FET and Driver Module with Voltage Regulator	56-MLP	7581.00/3,000		
FDY6342LCT-ND	Integrated Load Switch	SC89-6	.53	.35	.29
FDY6342LTR-ND	Integrated Load Switch	SC89-6	363.00/3,000		
FHP3350IM14XCT-ND	Triple, Voltage Feedback Amp	14-SOIC	1.51	1.17	1.06
FHP3350IM14XTR-ND	Triple, Voltage Feedback Amp	14-SOIC	1687.50/2,500		
FIN12ACGFXCT-ND	Low Volt. 12-Bit Bidirectional Serializer/Deserializer	42-BGA	2.26	1.75	1.59
FIN24CGFXCT-ND	Low Volt. 24-Bit Bidirectional Serializer/Deserializer	42-BGA	3.21	2.63	2.36
FIN212ACGFXCT-ND	12-Bit, Serializer/Deserializer	42-USS-BGA	3.33	2.57	2.33
FIN212ACGFXTR-ND	12-Bit, Serializer/Deserializer	42-USS-BGA	3849.00/3,000		
FIN212ACMLXCT-ND	12-Bit, Serializer/Deserializer	32-MLP	3.30	2.70	2.42
FIN212ACMLXTR-ND	12-Bit, Serializer/Deserializer	32-MLP	4389.00/3,000		
FIN224ACGFXCT-ND	22-Bit, Bidirectional Serializer/Deserializer	42-BGA	3.16	2.59	2.32
FIN224ACGFXTR-ND	22-Bit, Bidirectional Serializer/Deserializer	42-BGA	4869.00/3,000		
FIN224ACMLXCT-ND	22-Bit, Bidirectional Serializer/Deserializer	40-MLP	3.00	2.46	2.21
FIN224ACMLXTR-ND	22-Bit, Bidirectional Serializer/Deserializer	40-MLP	4629.00/3,000		
FIN1001M5XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	.97	.75	.67
FIN1001M5XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	960.00/3,000		
FIN1002M5XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	.97	.75	.67
FIN1002M5XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	960.00/3,000		
FIN1018K8XCT-ND	3.3V LVDS 1-Bit High Speed Differential Receiver	US8	1.41	1.11	1.00
FIN1018K8XTR-ND	3.3V LVDS 1-Bit High Speed Differential Receiver	US8	1554.00/3,000		
FIN1019MXCT-ND	3.3V LVDS High Speed Differential Driver/Receiver	14-SOIC	1.82	1.41	1.28
FIN1019MXTR-ND	3.3V LVDS High Speed Differential Driver/Receiver	14-SOIC	1755.00/2,500		
FIN1022MXCT-ND	2x2 LVDS High Speed Crosspoint Switch	16-SOIC	5.73	4.76	4.33
FIN1022MXTR-ND	2x2 LVDS High Speed Crosspoint Switch	16-SOIC	8125.00/2,500		
FIN1027AMXCT-ND	3.3V LVDS 2-Bit High Speed Differential Driver	8-SOIC	1.86	1.44	1.30
FIN1027AMXTR-ND	3.3V LVDS 2-Bit High Speed Differential Driver	8-SOIC	1790.00/2,500		
FIN1028MXCT-ND	3.3V LVDS 2-Bit High Speed Differential Receiver	8-SOIC	1.71	1.35	1.22
FIN1028MXTR-ND	3.3V LVDS 2-Bit High Speed Differential Receiver	8-SOIC	1575.00/2,500		
FIN1031MXCT-ND	3.3V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2.38	1.84	1.67
FIN1031MXTR-ND	3.3V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2295.00/2,500		
FIN1032MXCT-ND	3.3V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	2.38	1.84	1.67
FIN1032MXTR-ND	3.3V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	2295.00/2,500		
FIN1047MTC-ND	3.3V LVDS 4-Bit Flow-Through HS Diff. Driver	16-TSSOP	2.11	1.70	1.53
FIN1047MXCT-ND	3.3V LVDS 4-Bit Flow-Through HS Diff. Driver	16-SOIC	2.38	1.84	1.67
FIN1047MXTR-ND	3.3V LVDS 4-Bit Flow-Through HS Diff. Driver	16-SOIC	2295.00/2,500		
FIN1048MXCT-ND	3.3V LVDS 4-Bit Flow-Through HS Diff. Receiver	16-SOIC	2.52	1.95	1.77
FIN1048MXTR-ND	3.3V LVDS 4-Bit Flow-Through HS Diff. Receiver	16-SOIC	2430.00/2,500		
FIN1049MTCXCT-ND	LVDS Dual Line Driver with Dual Line Receiver	16-TSSOP	2.77	2.14	1.94
FIN1049MTCXTR-ND	LVDS Dual Line Driver with Dual Line Receiver	16-TSSOP	2667.50/2,500		
FIN1101K8XCT-ND	LVDS Single Port High Speed Repeater	US8	2.00	1.54	1.40
FIN1101K8XTR-ND	LVDS Single Port High Speed Repeater	US8	2310.00/3,000		
FIN1104MTC-ND	LVDS 4 Port High Speed Repeater	24-TSSOP	5.24	4.21	3.84
FIN1108MTD-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	5.46	4.39	4.00
FIN1108MTDXCT-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	4.50	3.68	3.30
FIN1108MTDXTR-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	2100.00/1,000		
FIN1531MXCT-ND	5V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2.63	2.03	1.84
FIN1531MXTR-ND	5V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2532.50/2,500		
FIN3383MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	2.85	2.33	2.09
FIN3384MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	3.47	2.83	2.55
FIN3384MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1617.00/1,000		
FIN3385MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	3.62	2.96	2.66
FIN3385MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1691.00/1,000		
FIN3386MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	4.25	3.48	3.12
FIN3386MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1985.00/1,000		
FPF1003ACT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-WLCSP	.99	.77	.68
FPF1003ATR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-WLCSP	975.00/3,000		
FPF1004CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	8-WLCSP	1.46	1.16	1.04
FPF1004TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	8-WLCSP	1617.00/3,000		

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(Continued)

FAIRCHILD SEMICONDUCTOR Digi-Reel® *(Cont.)*

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Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FPF1005CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MLP	.97	.75	.66
FPF1005TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MLP	957.00/3,000		
FPF1006CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MicroFET	1.01	.79	.69
FPF1006TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MicroFET	1002.00/3,000		
FPF1007CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	.92	.72	.63
FPF1007TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	915.00/3,000		
FPF1008CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	.92	.72	.63
FPF1008TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	915.00/3,000		
FPF1009CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	.92	.72	.63
FPF1009TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	MicroFET	915.00/3,000		
FPF2000CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2000TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2001CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2001TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2002CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2002TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2003CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2003TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2004CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2004TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2005CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2005TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2006CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2006TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2007CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1.05	.83	.75
FPF2007TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1155.00/3,000		
FPF2024CT-ND	100mA Load Switch	6-WLCSP	1.12	.89	.80
FPF2024TR-ND	100mA Load Switch	6-WLCSP	1236.00/3,000		
FPF2100CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.15	.91	.82
FPF2100TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1272.00/3,000		
FPF2101CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.15	.91	.82
FPF2101TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1272.00/3,000		
FPF2102CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.15	.91	.82
FPF2102TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1272.00/3,000		
FPF2103CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.15	.91	.82
FPF2103TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1272.00/3,000		
FPF2104CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2104TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2105CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2105TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2106CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2106TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2107CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2107TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2109CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2109TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2116CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.25	.99	.90
FPF2116TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1386.00/3,000		
FPF2123CT-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.33	1.05	.95
FPF2123TR-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1470.00/3,000		
FPF2124CT-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.33	1.05	.95
FPF2124TR-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1470.00/3,000		
FPF2125CT-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23	1.33	1.05	.95
FPF2125TR-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23	1470.00/3,000		
FPF2140CT-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1.08	.86	.77
FPF2143CT-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1.08	.86	.77
FPF2146CT-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1.08	.86	.77
FPF2147CT-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1.08	.86	.77
FPF2148TR-ND	Full Function Load Switch	MicroFET-6	1386.00/3,000		
FPF2164CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1.17	.93	.84
FPF2165RCT-ND	Full Function Load Switch with Adjustable Current Limit ***NEW!***	6-MLP	1.36	1.08	.97
FPF2165RTR-ND	Full Function Load Switch with Adjustable Current Limit ***NEW!***	6-MLP	1503.00/3,000		
FPF2172CT-ND	IntelliMAX™ Advanced Load Management Products	Power33-6	1.30	1.03	.93
FPF2172TR-ND	IntelliMAX™ Advanced Load Management Products	Power33-6	1323.00/3,000		
FPF2187CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.17	.93	.84
FPF2193CT-ND	Full Function Load Switch with Adj. Current Limit	6-WLCSP	1.46	1.16	1.04
FPF2193TR-ND	Full Function Load Switch with Adj. Current Limit	6-WLCSP	1617.00/3,000		
FPF2195CT-ND	Full Function Load Switch with Adj. Current Limit	6-WLCSP	1.46	1.16	1.04
FPF2195TR-ND	Full Function Load Switch with Adj. Current Limit	6-WLCSP	2560.00/5,000		
FPF2200TR-ND	Integrated Load Switch with 500mA High Precision Current Limit	MicroFET-6	1428.00/3,000		
FPF2201CT-ND	Integrated Load Switch with 500mA High Precision Current Limit	MicroFET-6	1.11	.88	.79
FPF2201TR-ND	Integrated Load Switch with 500mA High Precision Current Limit	MicroFET-6	1428.00/3,000		
FPF2202CT-ND	Integrated Load Switch with 500mA High Precision Current Limit	MicroFET-6	1.11	.88	.79
FPF2202TR-ND	Integrated Load Switch with 500mA High Precision Current Limit	MicroFET-6	1428.00/3,000		
FPF2213CT-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1.14	.91	.82
FPF2213TR-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1470.00/3,000		
FPF2214CT-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1.14	.91	.82
FPF2214TR-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1470.00/3,000		
FPF2215CT-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1.14	.91	.82
FPF2215TR-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1470.00/3,000		
FPF2223CT-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1.18	.93	.84
FPF2223TR-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1512.00/3,000		
FPF2225CT-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1.37	1.08	.98
FPF2225TR-ND	Integrated Load Switch with Adj. High Precision Current Limit	MicroFET-6	1512.00/3,000		

FAIRCHILD SEMICONDUCTOR Digi-Reel® *(Cont.)*

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Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FPF2300MPXCT-ND	Dual Channel Load Switch with Restart ***NEW!***	8-MLP	.92	.73	.66
FPF2300MX-ND	Dual Channel Load Switch with Restart ***NEW!***	8-SOP	.98	.79	.69
FPF2302MPXCT-ND	Dual Channel Load Switch with Latch Off ***NEW!***	8-MLP	.92	.73	.66
FPF2302MX-ND	Dual Channel Load Switch with Latch Off ***NEW!***	8-SOP	.98	.79	.69
FPF2303MPXCT-ND	Dual Ch. Load Switch with Constant Current ***NEW!***	8-MLP	.60	.28	.20
FPF2303MX-ND	Dual Ch. Load Switch with Constant Current ***NEW!***	8-SOP	.98	.79	.69
FPF2310MPXCT-ND	Dual Channel Adjustable Current Load Switch ***NEW!***	8-MLP	.92	.73	.66
FPF2312MPXCT-ND	Dual Channel Adjustable Current Load Switch ***NEW!***	8-MLP	.92	.73	.66
FPF2313LMPXCT-ND	Dual Channel Adjustable Current Load Switch ***NEW!***	8-MLP	.92	.73	.66
FPF2313MPXCT-ND	Dual Channel Adjustable Current Load Switch ***NEW!***	8-MLP	.92	.73	.66
FS7M0880TU-ND	800V, 8A Power Switch	TO-3P-5L	3.84	3.09	2.81
FS7M0880YDTU-ND	800V, 8A Power Switch	TO-3P-5L	3.64	2.93	2.67
FSA110K8XCT-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination	8-VSOP	1.21	.96	.86
FSA110UMXCT-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination	10-UMLP	1.21	.96	.86
FSA201L10XCT-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MicroPak	1.54	1.22	1.10
FSA201L10XTR-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MicroPak	3125.00/5,000		
FSA201MUXCT-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MSOP	2.11	1.63	1.48
FSA201MUXTR-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MSOP	3780.00/4,000		
FSA221L10XCT-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MicroPak	1.24	.99	.89
FSA221L10XTR-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MicroPak	2525.00/5,000		
FSA221MUXCT-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MSOP	1.24	.99	.89
FSA221MUXTR-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MSOP	2128.00/4,000		
FSA642UMXCT-ND	Low Power, 3-Port, High Speed MIPI Switch	24-UMLP	2.45	1.89	1.72
FSA642UMXTR-ND	Low Power, 3-Port, High Speed MIPI Switch	24-UMLP	4550.00/5,000		
FSA800UMXCT-ND	USB2.0 High Speed (480Mbps), UART, and Audio Switch with Negative Signal Capability ***NEW!***	16-UMLP	1.80	1.42	1.28
FSA800UMXTR-ND	USB2.0 High Speed (480Mbps), UART, and Audio Switch with Negative Signal Capability ***NEW!***	16-UMLP	3140.00/5,000		
FSA839UCXCT-ND	Low Voltage, 0.8-Ohm SPDT Analog Switch ***NEW!***	6-WLCSP	.72	.56	.49
FSA859UCXCT-ND	Dual Voltage, 0.8-Ohm SPDT Analog Switch	8-WLCSP	.93	.72	.64
FSA859UCXTR-ND	Dual Voltage, 0.8-Ohm SPDT Analog Switch	8-WLCSP	1065.00/3,000		
FSA1156L6XCT-ND	Low RON Low Voltage SPST Analog Switch	6-MicroPak	.75	.58	.51
FSA1156P6XCT-ND	Low RON Low Voltage SPST Analog Switch	SC70-6	.75	.58	.51
FSA1156P6XTR-ND	Low RON Low Voltage SPST Analog Switch	SC70-6	741.00/3,000		
FSA1157L6XCT-ND	Low RON Low Voltage SPST Analog Switch	6-MicroPak	.75	.58	.51
FSA1157L6XTR-ND	Low RON Low Voltage SPST Analog Switch	6-MicroPak	1150.00/5,000		
FSA1157P6XCT-ND	Low RON Low Voltage SPST Analog Switch	SC70-6	.75	.58	.51
FSA1157P6XTR-ND	Low RON Low Voltage SPST Analog Switch	SC70-6	741.00/3,000		
FSA1208BQXCT-ND	Low Power, 8-Port, HS Isolation Switch	20-DQFN	2.05	1.59	1.44
FSA1208BQXTR-ND	Low Power, 8-Port, HS Isolation Switch	20-DQFN	2754.00/3,000		
FSA1211UDMXCT-ND	Low Power, 12-Port, HS Isolation Switch	28-ULMP	1.96	1.52	1.38
FSA1211UDMXTR-ND	Low Power, 12-Port, HS Isolation Switch	28-ULMP	4225.00/5,000		
FSA1211UMXCT-ND	Low Power, 12-Port, HS Isolation Switch ***NEW!***	28-UMLP	1.81	1.40	1.27
FSA1256L8XCT-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1.14	.90	.81
FSA1256L8XTR-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1665.00/5,000		
FSA1257L8XCT-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1.06	.82	.72
FSA1257L8XTR-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1620.00/5,000		
FSA1258L8XCT-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1.06	.82	.72
FSA1258L8XTR-ND	Low RON Low Voltage Dual SPST Analog Switch with Low ICCT "A" Option	8-MicroPak	1620.00/5,000		
FSA1259AK8XTR-ND	Low Voltage, 1-Ohm Dual SPST Analog Switch with Power Off Isolation	US-8	957.00/3,000		
FSA2147K8XCT-ND	Low Voltage DPST Analog Switch	US-8	.97	.75	.66
FSA2147K8XTR-ND	Low Voltage DPST Analog Switch	US-8	957.00/3,000		
FSA2156L6XCT-ND	Low Voltage SPST Analog Switch	6-MicroPak	1.01	.79	.69
FSA2156L6XTR-ND	Low Voltage SPST Analog Switch	6-MicroPak	1555.00/5,000		
FSA2257L10XCT-ND	Low RON Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MicroPak	.88	.70	.63
FSA2257MUXCT-ND	Low RON Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MSOP	1.08	.86	.77
FSA2257MUXTR-ND	Low RON Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MSOP	1596.00/4,000		
FSA2258L10XCT-ND	0.8-Ohm Low Volt. Dual SPDT Analog Switch ***NEW!***	10-MicroPak	.66	.47	.40
FSA2259UMXCT-ND	0.8-Ohm Low Volt. Dual SPDT Analog Switch ***NEW!***	10-UMLP	.66	.47	.40
FSA2267AMUXCT-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MSOP	1.44	1.14	1.03
FSA2267AMUXTR-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MSOP	2128.00/4,000		
FSA2267L10XCT-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	.99	.78	.71
FSA2267L10XTR-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1730.00/5,000		
FSA2268L10XCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	.68	.53	.47
FSA2268TUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.92	.72	.63
FSA2268TUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1420.00/5,000		
FSA2269L10XCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1.06	.84	.76
FSA2269L10XTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1860.00/5,000		
FSA2269TSL10XCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1.03	.81	.73
FSA2269TSL10XTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1795.00/5,000		
FSA2269TSUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1.03	.81	.73
FSA2269TSUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1795.00/5,000		
FSA2269UMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1.06	.84	.76
FSA2269UMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1860.00/5,000		
FSA2270TUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.98	.78	.70
FSA2270TUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1995.00/5,000		
FSA2357BQXCT-ND	Low RON 3:1 Analog Switch	14-DQFN	1.22	.97	.87
FSA2357BQXTR-ND	Low RON 3:1 Analog Switch	14-DQFN	1350.00/3,000		
FSA2357MTCXCT-ND	Low RON 3:1 Analog Switch	14-TSSOP	1.14	.91	.82
FSA2367MTCXCT-ND	0.75-Ohm Low RON Triple SPDT, Negative Swing Audio Source Switch	14-TSSOP	1.81	1.40	1.27
FSA2367MTCXTR-ND	0.75-Ohm Low RON Triple SPDT, Negative Swing Audio Source Switch	14-TSSOP	2025.00/2,500		
FSA2380BQXCT-ND	Low RON 3:1 Negative Swing Audio Source Switch	14-DQFN	2.10	1.62	1.47
FSA2380BQXTR-ND	Low RON 3:1 Negative Swing Audio Source Switch	14-DQFN	2430.00/3,000		

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(Continued)

LINEAR ICs

(Cont.)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FSA2457UMXCT-ND	Dual DPDT, 5-Ohm Analog Data Switch	16-UMLP	1.18	.93	.84
FSA2457UMXTR-ND	Dual DPDT, 5-Ohm Analog Data Switch	16-UMLP	2060.00/5,000		
FSA2467MPXCT-ND	Dual DPDT, 0.4-Ohm Analog Switch	16-MLP	1.14	.90	.81
FSA2467MPXTR-ND	Dual DPDT, 0.4-Ohm Analog Switch	16-MLP	1260.00/3,000		
FSA2567MPXCT-ND	Low Power, Dual SIM Card Analog Switch	16-MLP	1.75	1.35	1.23
FSA2567MPXTR-ND	Low Power, Dual SIM Card Analog Switch	16-MLP	2025.00/3,000		
FSA2859UCXCT-ND	Dual Voltage, 0.8-Ohm DPDT Analog Switch	12-WLCSP	1.12	.89	.80
FSA2859UCXTR-ND	Dual Voltage, 0.8-Ohm DPDT Analog Switch	12-WLCSP	1440.00/3,000		
FSA3157BL6XCT-ND	Low Voltage SPDT Analog Switch or 2:1 Mux/ Demux Bus Switch	6-MicroPak	.52	.37	.32
FSA3157BL6XTR-ND	Low Voltage SPDT Analog Switch or 2:1 Mux/ Demux Bus Switch	6-MicroPak	685.00/5,000		
FSA3157P6XCT-ND	Low Voltage SPDT Analog Switch or 2:1 Mux/ Demux Bus Switch	SC70-6	.46	.30	.25
FSA3157P6XTR-ND	Low Voltage SPDT Analog Switch or 2:1 Mux/ Demux Bus Switch	SC70-6	312.00/3,000		
FSA3357K8XCT-ND	Low Voltage SP3T Analog Switch	US-8	.95	.75	.68
FSA3357K8XTR-ND	Low Voltage SP3T Analog Switch	US-8	1050.00/3,000		
FSA4157AL6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	.75	.58	.51
FSA4157AL6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	1150.00/5,000		
FSA4157AP6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.69	.49	.42
FSA4157AP6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	582.00/3,000		
FSA4157L6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	.75	.58	.51
FSA4157L6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	1150.00/5,000		
FSA4157P6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.69	.49	.42
FSA4157P6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	582.00/3,000		
FSA4159P6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.84	.65	.57
FSA4159P6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	828.00/3,000		
FSA6157L6XCT-ND	High Performance, SPDT Analog Switch	6-MicroPak	.76	.59	.52
FSA6157L6XTR-ND	High Performance, SPDT Analog Switch	6-MicroPak	1350.00/5,000		
FSAL200QSCXCT-ND	WB Quad 2:1 Analog Mux/Demux Switch	16-QSOP	1.48	1.17	1.05
FSAL200QSCXTR-ND	WB Quad 2:1 Analog Mux/Demux Switch	16-QSOP	1360.00/2,500		
FSAV430BQXCT-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-DQFN	1.60	1.26	1.14
FSAV430BQXTR-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-DQFN	1764.00/3,000		
FSAV430QSCXCT-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-QSOP	1.40	1.11	1.00
FSAV430QSCXTR-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-QSOP	1287.50/2,500		
FSAV450QSCXCT-ND	800MHz, 4-Channel, 2:1 Video Switch	16-QSOP	1.40	1.11	1.00
FSAV450QSCXTR-ND	800MHz, 4-Channel, 2:1 Video Switch	16-QSOP	1287.50/2,500		
FSCQ0765RTYDTU-ND	Green-Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	2.33	1.88	1.69
FSCQ1265RTYDTU-ND	Green-Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	2.98	2.40	2.16
FSCQ1565RTYDTU-ND	Green-Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	4.20	3.38	3.08
FSDM0465RSWDTU-ND	Green Mode Power Switch FPS™	TO-220F-6L	1.89	1.53	1.38
FSFR1700-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	4.82	3.87	3.53
FSFR1800-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	5.04	4.05	3.69
FSFR1900-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	5.46	4.39	4.00
FSFR2000-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	6.02	4.84	4.41
FSFR2100-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	7.00	5.74	5.18
FSQ0165RL-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-LSOP	1.40	1.12	.98
FSQ0165RN-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-Dip	1.40	1.12	.98
FSQ0265RL-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-LSOP	1.55	1.25	1.13
FSQ0265RN-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-Dip	1.55	1.25	1.13
FSQ0365RL-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-LSOP	1.67	1.35	1.22
FSQ0365RLX-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-LSOP	1.67	1.35	1.22
FSQ0765RQWDTU-ND	Green-Mode Power Switch for Quasi-Resonant Operation	TO-220F-6	2.73	2.20	1.98
FSQ0765RSWDTU-ND	Green-Mode Power Switch for Quasi-Resonant Operation	TO-220F-6	2.73	2.20	1.98
FSQ211-ND	Green-Mode Power Switch	8-Dip	.88	.70	.62
FSQ321-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-Dip	1.12	.90	.79
FSQ321L-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	8-LSOP	1.12	.90	.79
FSQ510-ND	Green-Mode Pwr. Switch for Valley Switching Conv.	7-Dip	1.23	.98	.86
FSSD06BQXCT-ND	SD/SDIO and MMC Two-Port Mulitplexer	24-MLP	1.75	1.35	1.23
FSSD06BQXTR-ND	SD/SDIO and MMC Two-Port Multiplexer	24-MLP	2025.00/3,000		
FSSD07BQXCT-ND	SD/SDIO and MMC 2:1 Multiplexer ***NEW!***	24-MLP	1.51	1.17	1.06
FSSD07UMXCT-ND	SD/SDIO and MMC 2:1 Multiplexer ***NEW!***	24-UMLP	1.51	1.17	1.06
FSUSB11L10XCT-ND	Low Power Full Speed USB (12Mbps) Switch	10-MicroPak	1.56	1.23	1.11
FSUSB11L10XTR-ND	Low Power Full Speed USB (12Mbps) Switch	10-MicroPak	2725.00/5,000		
FSUSB20MUXCT-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	2.00	1.54	1.40
FSUSB20MUXTR-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	3080.00/4,000		
FSUSB22BQXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	16-DQFN	1.75	1.35	1.23
FSUSB30L10XCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MicroPak	1.79	1.41	1.27
FSUSB30L10XTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MicroPak	3125.00/5,000		
FSUSB30MUXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	1.79	1.41	1.27
FSUSB30MUXTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	2632.00/4,000		
FSUSB30UMXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-µMLP	1.79	1.41	1.27
FSUSB30UMXTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-µMLP	3125.00/5,000		
FSUSB31K8XCT-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-US	1.79	1.41	1.27
FSUSB31K8XTR-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-US	1974.00/3,000		
FSUSB31L8XCT-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-MicroPak	1.79	1.41	1.27
FSUSB31L8XTR-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-MicroPak	3125.00/5,000		
FSUSB40L10XCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	1.54	1.22	1.10
FSUSB40L10XTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	3125.00/5,000		
FSUSB40UMXCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-µMLP	2.70	2.08	1.89
FSUSB40UMXTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-µMLP	5005.00/5,000		
FSUSB42MUXCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch ***NEW!***	10-MSOP	1.79	1.41	1.27
FSUSB42MUXTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch ***NEW!***	10-MSOP	2632.00/4,000		
FSUSB42UMXCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	1.79	1.41	1.27
FSUSB42UMXTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	3125.00/5,000		
FSUSB43L10X_F131CT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	1.14	.90	.81
FSUSB43L10X_F131TR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	1995.00/5,000		
FSUSB46K8XCT-ND	High-Speed USB 2.0 (480Mbps) DPST Switch	8-US	1.79	1.41	1.27
FSUSB46K8XTR-ND	High-Speed USB 2.0 (480Mbps) DPST Switch	8-US	1974.00/3,000		
FSUSB46L8XCT-ND	HS USB 2.0 (480Mbps) DPST Switch	8-MicroPak	1.79	1.41	1.27
FSUSB46L8XTR-ND	HS USB 2.0 (480Mbps) DPST Switch	8-MicroPak	3125.00/5,000		
FSUSB104UMXCT-ND	LP, 2-Port, HS USB 2.0 (480Mbps) Switch	10-UMLP	1.54	1.22	1.10
FSUSB104UMXTR-ND	LP, 2-Port, HS USB 2.0 (480Mbps) Switch	10-UMLP	3125.00/5,000		
FXLA102L8XCT-ND	Low Volt. Dual Supply 2-Bit Voltage Translator	8-MicroPak	1.52	1.20	1.08
FXLA102L8XTR-ND	Low Volt. Dual Supply 2-Bit Voltage Translator	8-MicroPak	2655.00/5,000		
FXLA104UMXCT-ND	Low Volt. Dual Supply 4-Bit Volt. Translator ***NEW!***	16-µMLP	.98	.78	.70
FXLA104UMXTR-ND	Low Volt. Dual Supply 4-Bit Volt. Translator ***NEW!***	16-µMLP	1565.00/5,000		
FXLA108BQXCT-ND	Low Volt. Dual Supply 8-Bit Volt. Translator ***NEW!***	20-DQFN	1.66	1.32	1.18
FXLA108BQXTR-ND	Low Volt. Dual Supply 8-Bit Volt. Translator ***NEW!***	20-DQFN	1836.00/3,000		
FXL2SD106BQXCT-ND	Low Voltage Dual Supply 6-Bit Signal Translator	16-DQFN	1.79	1.38	1.25
FXL2SD106BQXTR-ND	Low Voltage Dual Supply 6-Bit Signal Translator	16-DQFN	2067.00/3,000		
FXL2TD245L10XCT-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	1.25	.99	.89
FXL2TD245L10XTR-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	2190.00/5,000		
FXL3SD206UMXCT-ND	Level Shifting Voltage Translator ***NEW!***	24-MLP	1.14	.91	.82
FXL4TD245BQXCT-ND	Low Voltage Dual Supply 4-Bit Signal Translator	16-DQFN	1.38	1.10	.99
FXL4TD245BQXTR-ND	Low Voltage Dual Supply 4-Bit Signal Translator	16-DQFN	1530.00/3,000		
FXL4245MPXCT-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	2.00	1.54	1.40
FXL4245MPXTR-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	2310.00/3,000		
FXLH1T45L6XCT-ND	Low Voltage 1-Bit Bi-Directional Level Translator	6-MicroPak	.80	.57	.49
FXLH1T45L6XTR-ND	Low Voltage 1-Bit Bi-Directional Level Translator	6-MicroPak	1060.00/5,000		
FXLH42245MPXCT-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	1.96	1.52	1.38
FXLH42245MPXTR-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	2268.00/3,000		
FXLP34P5XCT-ND	Single Bit Uni-Directional Translator	SC70-5	.77	.60	.53
FXLP34P5XTR-ND	Single Bit Uni-Directional Translator	SC70-5	756.00/3,000		
GTLP16617MTDXCT-ND	17-Bit TTL/GTLP Sync. Bus Transceiver	56-TSSOP	5.70	4.66	4.18
KA7805ETU-ND	3-Terminal 1A Positive Voltage Regulator	TO-220	.71	.53	.45
KSC5305DTU-ND	High Voltage High Speed Power Switch	TO-220	.77	.60	.53
LM78L05ACZFS-ND	5V, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.48	.28	.21
LM78L12ACZFS-ND	12V, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.56	.32	.24
LM78M05CTFS-ND	5V, 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.61	.48	.42
LM79L05ACZFS-ND	5V, 3-Terminal 0.1A Negative Voltage Regulator	TO-92	.50	.29	.24
LM311MFS-ND	0°C-70°C Single Comparator	8-SOP	.45	.36	.27
LM317LMFS-ND	0.1A, 3-Terminal Positive Adjustable Regulator	8-SOP	.48	.36	.31
LM317LMXFSCT-ND	0.1A, 3-Terminal Positive Adjustable Reg. ***NEW!***	8-SOP	.56	.40	.34
LM317LMXFSTR-ND	0.1A, 3-Terminal Positive Adjustable Reg. ***NEW!***	8-SOP	474.00/3,000		
LM317LZ-ND	0.1A, 3-Terminal Positive Adjustable Regulator	TO-92	.49	.29	.23
LM317MDTXFSCT-ND	0.5A, 3-Terminal Positive Adjustable Regulator	D-PAK	.79	.55	.48
LM317MDTXFSTR-ND	0.5A, 3-Terminal Positive Adjustable Regulator	D-PAK	442.00/2,000		
LM317TFS-ND	1.5A, 3-Terminal Positive Adjustable Regulator	TO-220	.65	.51	.44
LM319MXFSCT-ND	5V, Dual Comparator	14-SOP	.62	.44	.38
LM319MXFSTR-ND	5V, Dual Comparator	14-SOP	522.00/3,000		
LM336Z25-ND	2.5V, Programmable Shunt Regulator	TO-92	.49	.29	.23
LM336Z5-ND	5V, Programmable Shunt Regulator	TO-92	.50	.29	.24
LM337TFS-ND	1.5A, 3-Terminal Negative Adjustable Regulator	TO-220	.71	.56	.49
LM339ANFS-ND	0°C~70°C Quad Comparator	14-Dip	.47	.35	.30
LM339MFS-ND	0°C~70°C Quad Comparator	14-SOP	.55	.37	.30
LM339MXFSCT-ND	0°C~70°C Quad Comparator	14-SOP	.61	.40	.33
LM339MXFSTR-ND	0°C~70°C Quad Comparator	14-SOP	417.00/3,000		
LM339NFS-ND	0°C~70°C Quad Comparator	14-Dip	.46	.35	.30
LM350TFS-ND	3A, 3~Terminal Positive Adjustable Voltage Reg.	TO-220	.78	.61	.53
LM393AN-ND	0°C~70°C Dual Differential Comparator	8-Dip	.42	.28	.23
LM393MFS-ND	0°C~70°C Dual Differential Comparator	8-SOP	.40	.27	.22
LM393MXFSCT-ND	0°C~70°C Dual Differential Comparator	8-SOP	.61	.36	.29
LM393MXFSTR-ND	0°C~70°C Dual Differential Comparator	8-SOP	312.00/3,000		
LM393NFS-ND	0°C~70°C Dual Differential Comparator	8-Dip	.40	.27	.22
LM431ACZFS-ND	Programmable Shunt Regulator	TO-92	.41	.23	.18
LM555CMFS-ND	Single Timer	8-SOP	.45	.30	.25
LM555CNFS-ND	Single Timer	8-Dip	.54	.31	.24
LM2901NFS-ND	Quad Comparator	14-Dip	.46	.35	.30
LM2903MFS-ND	Dual Differential Comparator	8-SOP	.42	.28	.23
LM2903MXFSCT-ND	Dual Differential Comparator ***NEW!***	8-SOP	.44	.29	.24
LM2903MXFSTR-ND	Dual Differential Comparator ***NEW!***	8-SOP	300.00/3,000		
LM2903NFS-ND	Dual Differential Comparator	8-Dip	.42	.28	.23
LM7805ACT-ND	0°C~125°C, 3-Terminal 1A Positive Voltage Reg.	TO-220	.60	.47	.41
LM7805CT-ND	-40°C~125°C, 3-Terminal 1A Positive Voltage Reg.	TO-220	.65	.48	.41
LM7808CTFS-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7809ACT-ND	0°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7809CT-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7812ACT-ND	0°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.65	.48	.41
LM7812CTFS-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7815ACT-ND	0°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.66	.49	.42
LM7815CTFS-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7818CT-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.70	.52	.45
LM7824CTFS-ND	-40°C~125°C, 3-Terminal 1A Pos. Voltage Reg.	TO-220	.66	.49	.42
LM7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.60	.47	.41
LM7906CT-ND	-6V, 4% 3-Terminal 1A Neg. Voltage Reg.	TO-220	.61	.48	.42
LM7908CT-ND	-8V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
LM7909CT-ND	-9V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
LM7910CT-ND	-10V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
LM7912CTFS-ND	-12V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
LM7915CTFS-ND	-15V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.60	.47	.41
LM7918CTFS-ND	-18V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
LM7924CTFS-ND	-24V, 4% 3-Terminal 1A Negative Voltage Reg.	TO-220	.61	.48	.42
MC78L05ACD-ND	5V, 5% 3-Terminal 0.1A Positive Voltage Regulator	8-SOP	.47	.32	.26
MC78L05ACHXCT-ND	5V, 5% 3-Terminal 0.1A Pos. Voltage Reg. ***NEW!***	SOT-89	.56	.37	.30
MC78L05ACHXTR-ND	5V, 5% 3-Terminal 0.1A Pos. Voltage Reg. ***NEW!***	SOT-89	508.00/4,000		
MC78L05ACPFS-ND	5V, 5% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.45	.26	.21
MC78L08ACP-ND	8V, 4% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.50	.29	.24
MC78L15ACPFS-ND	15V, 5% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.50	.29	.24
MC78M05CDTXCT-ND	5V, 0.5A 3-Terminal Positive Voltage Regulator	D-PAK	.68	.48	.41
MC78M05CDTXTR-ND	5V, 0.5A 3-Terminal Positive Voltage Regulator	D-PAK	382.00/2,000		
MM74HCU04MXCT-ND	Hex Inverter	14-SOIC	.52	.34	.28
MM74HCU04MXTR-ND	Hex Inverter	14-SOIC	292.50/2,500		
MMBFJ112CT-ND	N-Channel Switch	SOT-23	.59	.35	.28
MMBFJ112TR-ND	N-Channel Switch	SOT-23	300.00/3,000		
MMBFJ177CT-ND	P-Channel Switch ***NEW!***	SOT-23	.50	.33	.28
MMBFJ177TR-ND	P-Channel Switch ***NEW!***	SOT-23	342.00/3,000		
SG6521SZCT-ND	PC Power Supply Supervisor	16-SOP	.71	.55	.49
SG6521SZTR-ND	PC Power Supply Supervisor	16-SOP	945.00/2,500		
TL431ACLPFS-ND	Programmable Shunt Regulator 2.5V ***NEW!***	TO-92	.51	.29	.22

LOW DROPOUT REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN1086M-ND	Adjustable, 1.5A LDO Linear Regulator	TO-263	1.02	.82	.72
FAN1086M285-ND	2.85V, 1.5A Fixed LDO Linear Regulator	TO-263	1.19	.96	.84
FAN1112DXCT-ND	1.2V, 1A LDO Regulator ***NEW!***	TO-252	1.25	.99	.90
FAN1112DXTR-ND	1.2V, 1A LDO Regulator ***NEW!***	TO-252	1155.00/2,500		
FAN1112SXCT-ND	1.2V, 1A LDO Linear Regulator ***NEW!***	SOT-223	1.25	.99	.90
FAN1112SXTR-ND	1.2V, 1A LDO Linear Regulator ***NEW!***	SOT-223	1155.00/2,500		
FAN1539BMPXCT-ND	3.3V, 1A LDO with Low Quiescent Current	6-MLP	1.01	.79	.69
FAN1540BMPXCT-ND	3.3V, 1.3A LDO with Low Quiescent Current	6-MLP	.95	.75	.68
FAN2106EMPXCT-ND	24V, 6A, Integrated Synchronous Buck Reg.	5x6-MLP	3.18	2.60	2.34
FAN2106EMPXTR-ND	24V, 6A, Integrated Synchronous Buck Reg.	5x6-MLP	4230.00/3,000		

LOW DROPOUT REGULATORS

(Cont.)

RoHS Compliant

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FAN2500SXCT-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	.69	.54	.47
FAN2500SXTR-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	678.00/3,000		
FAN2500S25XCT-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	.70	.55	.48
FAN2500S25XTR-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	696.00/3,000		
FAN2500S30XCT-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	.74	.58	.51
FAN2500S30XTR-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	732.00/3,000		
FAN2500S33XCT-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.56	.50
FAN2500S33XTR-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	714.00/3,000		
FAN2560UC13XCT-ND	1.3V, 350mA, Fast Transient Response LDO Reg.	5-WLCSP	1.48	1.17	1.06
FAN2560UC13XTR-ND	1.3V, 350mA, Fast Transient Response LDO Reg.	5-WLCSP	1638.00/3,000		
FAN2560UC15XCT-ND	1.5V, 350mA Fast Transient Response LDO Reg.	5-WLCSP	1.56	1.23	1.11
FAN2560UC15XTR-ND	1.5V, 350mA Fast Transient Response LDO Reg.	5-WLCSP	1722.00/3,000		
FAN2564UC13XCT-ND	1.3V, 300mA LDO Regulator	4-WLCSP	1.31	1.04	.93
FAN2564UC13XTR-ND	1.3V, 300mA LDO Regulator	4-WLCSP	1680.00/3,000		
FAN2564UC15XCT-ND	1.5V, 300mA LDO Regulator	4-WLCSP	1.31	1.04	.93
FAN2564UC15XTR-ND	1.5V, 300mA LDO Regulator	4-WLCSP	1680.00/3,000		
FAN2564UC18XCT-ND	1.8V, 300mA LDO Regulator	4-WLCSP	1.31	1.04	.93
FAN2564UMP12XCT-ND	1.2V, 300mA LDO Regulator ***NEW!***	6-UMLP	1.21	.96	.86
FAN2564UMP13XCT-ND	1.3V, 300mA LDO Regulator ***NEW!***	6-UMLP	1.21	.96	.86
FAN2564UMP15XCT-ND	1.5V, 300mA LDO Regulator ***NEW!***	6-UMLP	1.21	.96	.86
FAN2564UMP18XCT-ND	1.8V, 300mA LDO Regulator ***NEW!***	6-UMLP	1.21	.96	.86
LP2951CMFS-ND	Adjustable, Micro Power Voltage Regulator ***NEW!***	8-SOP	.60	.45	.39
LP2951CMXFSCT-ND	Adjustable, Micro Power Voltage Regulator	8-SOP	.66	.47	.40
LP2951CMXFSTR-ND	Adjustable, Micro Power Voltage Regulator	8-SOP	558.00/3,000		
RC1117DXCT-ND	1A, Adjustable LDO Linear Regulator	TO-252	1.28	1.01	.91
RC1117DXTR-ND	1A, Adjustable LDO Linear Regulator	TO-252	1174.58/2,500		
RC1117M285-ND	2.85V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.78	.68
RC1117S285TCT-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	.59	.46	.41
RC1117S285TTR-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	485.76/2,500		
RC1585M15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-263	1.08	.87	.76

NM95HS HIGH SECURITY SERIES

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
NM95HS01EM-ND	Rolling Code Generator High Temp (RC OSC)	14-SOIC	2.90	2.34	2.13
NM95HS01EM8-ND	Rolling Code Generator High Temp (RC OSC)	8-SOIC	3.99	3.21	2.93
NM95HS01N-ND	Rolling Code Generator (RC OSC)	8-Dip	3.63	2.92	2.66
NM95HS01N14-ND	Rolling Code Generator (RC OSC)	14-Dip	3.63	2.92	2.66
NM95HS02EN-ND	Rolling Code Generator High Temp (XTAL OSC)	8-Dip	3.99	3.21	2.93
NM95HS02N-ND	Rolling Code Generator (XTAL OSC)	8-Dip	3.63	2.92	2.66
NM95HS02N14-ND	Rolling Code Generator (XTAL OSC)	14-Dip	3.63	2.92	2.66

OP AMPS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
L272MFS-ND	0.7A Dual Power Op Amp* ***NEW!***	8-Dip	.66	.49	.42
LF353NFS-ND	4MHz Dual JFet Op Amp*	8-Dip	.60	.45	.38
LM324AMFS-ND	0°C~70°C Quad Op Amp*	14-SOP	.57	.38	.31
LM324ANFS-ND	0°C~70°C Quad Op Amp*	14-Dip	.48	.36	.31
LM324MFS-ND	0°C~70°C Quad Op Amp*	14-SOP	.57	.38	.31
LM324MXFSCT-ND	Quad Op Amp* ***NEW!***	14-SOP	.59	.39	.32
LM324MXFSTR-ND	Quad Op Amp* ***NEW!***	14-SOP	399.00/3,000		
LM324NFS-ND	0°C~70°C Quad Op Amp	14-Dip	.48	.36	.31
LM358AMFS-ND	0°C~70°C Dual Op Amp	8-SOIC	.45	.30	.25
LM358AMXFSCT-ND	Dual Op Amp 0°C~70°C* ***NEW!***	8-SOIC	.47	.31	.26
LM358AMXFSTR-ND	Dual Op Amp 0°C~70°C* ***NEW!***	8-SOIC	324.00/3,000		
LM358ANFS-ND	0°C~70°C Dual Op Amp	8-Dip	.46	.31	.25
LM358MFS-ND	0°C~70°C Dual Op Amp	8-SOIC	.45	.30	.25
LM358MXFSCT-ND	0°C~70°C Dual Op Amp*	8-SOIC	.47	.31	.26
LM358MXFSTR-ND	0°C~70°C Dual Op Amp*	8-SOIC	321.00/3,000		
LM358NFS-ND	0°C~70°C Dual Op Amp	8-Dip	.46	.31	.25
LM2902NFS-ND	-40°C~85°C Quad Op Amp	14-Dip	.48	.36	.31
LM2904MFS-ND	Dual Op Amp	8-SOP	.45	.30	.25
LM2904MXFSCT-ND	Dual Op Amp ***NEW!***	8-SOP	.50	.33	.28
LM2904MXFSTR-ND	Dual Op Amp ***NEW!***	8-SOP	342.00/3,000		
LM2904NFS-ND	Dual Op Amp	8-Dip	.46	.31	.25
NE5532N-ND	Dual Op Amp ***NEW!***	8-Dip	.45	.34	.29

PFC/PWM CONTROLLER

RoHS Compliant

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FAN100MYTR-ND	Primary-Side-Control PWM Controller	8-SOP	717.50/2,500		
FAN102MYCT-ND	Primary-Side-Control PWM Controller	8-SOP	.87	.68	.60
FAN102MYTR-ND	Primary-Side-Control PWM Controller	8-SOP	717.50/2,500		
FAN103MYCT-ND	Primary-Side-Regulation PWM Controller ***NEW!***	8-SOIC	1.05	.83	.75
FAN103MYTR-ND	Primary-Side-Regulation PWM Controller ***NEW!***	8-SOIC	962.50/2,500		
FAN400ANY-ND	LP Green-Mode PWM Flyback Power Controller	8-Dip	.69	.52	.44
FAN400ATYCT-ND	LP Green-Mode PWM Flyback Power Controller	6-SSOT	.74	.52	.45
FAN400ATYTR-ND	LP Green-Mode PWM Flyback Power Controller	6-SSOT	624.00/3,000		
FAN400CNY-ND	LP Green-Mode PWM Flyback Power Controller	8-Dip	.66	.49	.42
FAN400CTYCT-ND	LP Green-Mode PWM Flyback Power Controller	6-SSOT	.77	.55	.47
FAN400CTYTR-ND	LP Green-Mode PWM Flyback Power Controller	6-SSOT	654.00/3,000		
FAN2011MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.75	1.35	1.23
FAN2011MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	2025.00/3,000		
FAN2012MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.67	1.32	1.19
FAN2012MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1848.00/3,000		
FAN4800ANY-ND	Low Start-Up Current PFC/PWM Controller	16-Dip	1.47	1.18	1.03
FAN4800CMYCT-ND	PFC/PWM Controller ***NEW!***	16-SOIC	1.41	1.11	1.00
FAN4800CNY-ND	PFC/PWM Controller ***NEW!***	16-DIP	1.40	1.12	.98
FAN4801MYCT-ND	PFC/PWM Controller ***NEW!***	16-SOP	1.41	1.11	1.00
FAN4800IN-ND	Low Start-Up Current PFC/PWM Controller	16-Dip	2.11	1.70	1.53
FAN4801NY-ND	PFC/PWM Controller	16-Dip	1.65	1.33	1.16
FAN4802LMYCT-ND	PFC/PWM Controller	16-SOP	1.62	1.28	1.16
FAN4802LMYTR-ND	PFC/PWM Controller	16-SOP	1655.00/2,500		
FAN4802LNY-ND	PFC/PWM Controller	16-Dip	1.65	1.33	1.16
FAN4802MYCT-ND	PFC/PWM Controller	16-SOP	1.62	1.28	1.16
FAN4802MYTR-ND	PFC/PWM Controller	16-SOP	1655.00/2,500		
FAN4802NY-ND	PFC/PWM Controller	16-Dip	1.65	1.33	1.16
FAN4810MXCT-ND	PFC Controller	16-SOIC	2.76	2.13	1.93
FAN4810MXTR-ND	PFC Controller	16-SOIC	2657.50/2,500		
FAN4810N-ND	PFC Controller	16-Dip	2.79	2.25	2.03

PFC/PWM CONTROLLER

(Cont.)

RoHS Compliant

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FAN5026MTCXCT-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	2.73	2.11	1.92
FAN5026MTCXTR-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	2632.50/2,500		
FAN5069MTCXCT-ND	Programmable PWM/LDO Controller	16-TSSOP	1.71	1.35	1.22
FAN5069MTCXTR-ND	Programmable PWM/LDO Controller	16-TSSOP	1575.00/2,500		
FAN5236MTC-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	2.78	2.24	2.04
FAN5236MTCXCT-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	3.45	2.82	2.53
FAN6300SYCT-ND	Quasi-Resonant Current Mode PWM Controller	8-SOP	1.04	.81	.72
FAN6300SYTR-ND	Quasi-Resonant Current Mode PWM Controller	8-SOP	860.00/2,500		
FAN6520BIMXCT-ND	Single Synchronous Buck PWM Controller	8-SOIC	1.79	1.38	1.25
FAN6520BIMXTR-ND	Single Synchronous Buck PWM Controller	8-SOIC	1722.50/2,500		
FAN6751MRMYCT-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	1.09	.85	.75
FAN6751MRMYTR-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	897.50/2,500		
FAN6753MYCT-ND	Highly Integrated Green-Mode PWM Controller ***NEW!***	8-SOP	.87	.68	.60
FAN6791NY-ND	Dual PWM Controller ***NEW!***	16-DIP	1.18	.95	.83
FAN6793MYCT-ND	Dual PWM Combination Controller ***NEW!***	16-SOP	1.13	.90	.81
FAN6793NY-ND	Dual PWM Combination Controller ***NEW!***	16-DIP	1.10	.89	.78
FAN6861TYCT-ND	Highly Integrated Green-Mode PWM Controller ***NEW!***	6-SSOT	2.02	1.56	1.42
FAN6961DZ-ND	Conduction Mode PFC Controller	8-Dip	.80	.62	.54
FAN6961SZCT-ND	Conduction Mode PFC Controller	8-SOP	.88	.68	.60
FAN6961SZTR-ND	Conduction Mode PFC Controller	8-SOP	722.50/2,500		
FAN7527BMXCT-ND	PFC Controller	8-SOP	.99	.78	.71
FAN7527BMXTR-ND	PFC Controller	8-SOP	910.00/2,500		
FAN7527BN-ND	PFC Controller	8-Dip	.91	.73	.64
FAN7528MXCT-ND	Dual Out, Critical Conduction Mode PFC Controller	8-SOP	1.21	.96	.86
FAN7529MXCT-ND	Critical Conduction Mode PFC Controller	8-SOIC	1.00	.79	.71
FAN7529MXTR-ND	Critical Conduction Mode PFC Controller	8-SOIC	1104.00/3,000		
FAN7529N-ND	Critical Conduction Mode PFC Controller	8-Dip	.92	.74	.65
FAN7530MXCT-ND	Critical Conduction Mode PFC Controller	8-SOP	1.86	1.44	1.30
FAN7530MXTR-ND	Critical Conduction Mode PFC Controller	8-SOP	2148.00/3,000		
FAN7554-ND	Versatile PWM Controller	8-Dip	.84	.66	.57
FAN7554DTFCT-ND	Versatile PWM Controller	8-SOP	.99	.78	.71
FAN7554DTFTR-ND	Versatile PWM Controller	8-SOP	910.00/2,500		
FAN7601BMXCT-ND	Green Current Mode PWM Controller	8-SOP	.62	.49	.43
FAN7601BMXTR-ND	Green Current Mode PWM Controller	8-SOP	684.00/3,000		
FAN7601BN-ND	Green Current Mode PWM Controller	8-Dip	.70	.52	.45
FAN7601GXCT-ND	Green Current Mode PWM Controller	10-SSOP	.85	.68	.61
FAN7601N-ND	Green Current Mode PWM Controller	8-Dip	.88	.71	.62
FAN7602BMXCT-ND	Green Current Mode PWM Controller	8-SOP	.92	.72	.63
FAN7602BMXTR-ND	Green Current Mode PWM Controller	8-SOP	762.50/2,500		
FAN7602BN-ND	Green Current Mode PWM Controller	8-Dip	.84	.66	.57
FAN7602CN-ND	Green Current Mode PWM Controller ***NEW!***	8-Dip	.76	.59	.52
FAN7602MXCT-ND	Green Current Mode PWM Controller	8-SOP	1.60	1.26	1.14
FAN7602N-ND	Green Current Mode PWM Controller	8-Dip	1.26	1.02	.89
FAN7621N-ND	PFM Cont. for Half-Bridge Resonant Converters ***NEW!***	16-Dip	1.47	1.18	1.03
FAN7621SJXCT-ND	PFM Cont. for Half-Bridge Resonant Converters ***NEW!***	16-SOP	1.15	.91	.82
FAN7621SJXTR-ND	PFM Cont. for Half-Bridge Resonant Converters ***NEW!***	16-SOP	1118.00/2,000		
FPDB40PH60B-ND	PFC Controller ***NEW!***	SPM27-GC	22.78	19.37	17.94
FPDB60PH60B-ND	PFC Controller ***NEW!***	SPM27-HC	27.84	23.67	21.93
FSBH0170NY-ND	Green-Mode FPS™, Integrated PWM and SenseFET ***NEW!***	8-Dip	.92	.74	.65
FSBH0270NY-ND	Green-Mode FPS™, Integrated PWM and SenseFET ***NEW!***	8-Dip	.99	.80	.70
FSBH0370NY-ND	Green-Mode FPS™, Integrated PWM and SenseFET ***NEW!***	8-Dip	1.36	1.09	.96
FSDM0465REWDTU-ND	Green-Mode FPS™, Integrated PWM and SenseFET	TO-220F-6	1.95	1.58	1.42
FSDM0565RBWDTU-ND	Green-Mode FPS™, Integrated PWM and SenseFET	TO-220F-6	2.33	1.88	1.69
FSDM0565REWDTU-ND	Green-Mode FPS™, Integrated PWM and SenseFET	TO-220F-6	2.14	1.73	1.56
FSDM07652REWDTU-ND	Green-Mode FPS™, Integrated PWM and SenseFET	TO-220F-6	2.18	1.76	1.59
FSDM1265RBWDTU-ND	Green-Mode FPS™, Integrated PWM and SenseFET	TO-220F	2.98	2.40	2.16
FSEZ1016AMYCT-ND	Primary-Side-Regulation PWM Integrated Power MOSFET ***NEW!***	7-SOIC	.85	.68	.61
FSEZ1016AMYTR-ND	Primary-Side-Regulation PWM Integrated Power MOSFET ***NEW!***	7-SOIC	910.00/2,500		
FSEZ1216BNY-ND	Primary-Side-Regulation PWM Integrated Power MOSFET	8-Dip	.81	.63	.55
FSEZ1216NY-ND	Primary-Side-Regulation PWM Integrated Power MOSFET	8-Dip	.84	.66	.57
FSEZ2016NY-ND	LP Green-Mode PWM Cont. for Flyback Conv. ***NEW!***	7-Dip	.97	.75	.66
FSFA2100-ND	FPS™ for Half-Bridge PWM Converters	9-Sip	7.63	6.26	5.65
FSFM300N-ND	Green-Mode FPS™ with UVLO ***NEW!***	8-Dip	1.32	1.06	.93
FSFR2100U-ND	FPS™ for Half-Bridge PWM Converters w/OVP, OCP ***NEW!***	9-Sip	4.51	3.63	3.31
FSQ100-ND	Green-Mode FPS™	8-Dip	1.02	.82	.72
FSQ0170RNA-ND	Green-Mode FPS™, Integrated PWM and SenseFET	8-Dip	1.40	1.12	.98
FSQ0270RNA-ND	Green-Mode FPS™, Integrated PWM and SenseFET	8-Dip	1.55	1.25	1.13
FSQ0365RN-ND	Green-Mode FPS™, for Quasi-Resonant Operation	8-Dip	1.67	1.35	1.22
FSQ0370RNA-ND	Green-Mode FPS™, Integrated PWM and SenseFET	8-Dip	1.67	1.35	1.22
FSQ0465RUWDTU-ND	Green-Mode FPS™, for Quasi-Resonant Operation ***NEW!***	TO-220F	1.66	1.34	1.21
ML4800CP-ND	PFC/PWM Controller Combo	16-Dip	3.59	2.89	2.63
ML4824CP1-ND	PFC/PWM Controller Combo	16-Dip	4.85	3.90	3.56
ML4824IP1-ND	PFC/PWM Controller Combo	16-Dip	4.12	3.31	3.02
SG1577SZCT-ND	Dual Sync DC-DC PWM Controller	20-SOP	1.72	1.33	1.21
SG1577SZTR-ND	Dual Sync DC-DC PWM Controller	20-SOP	868.00/1,000		
SG5851ASYCT-ND	Green-Mode, PWM Controller for Flyback Converter	8-SOP	.71	.55	.49
SG5851ASYTR-ND	Green-Mode, PWM Controller for Flyback Converter	8-SOP	677.50/2,500		
SG6742MLSYCT-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	.89	.69	.61
SG6742MLSYTR-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	897.50/2,500		
SG6742MRSYCT-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	1.09	.85	.75
SG6742MRSYTR-ND	Highly Integrated Green-Mode PWM Controller	8-SOP	897.50/2,500		
SG6859ATZTR-ND	Green-Mode PWM Flyback Power Converter	SSOT-6	582.00/3,000		

RF POWER AMP MODULES

RoHS Compliant

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
RMPA1959CT-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge Power Amp Module	4.0x4.0x1.5mm LCC	2.96	2.29	2.07
RMPA1959TR-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge Power Amp Module	4.0x4.0x1.5mm LCC	2891.00/2,500		

SMART POWER MODULES

RoHS Compliant

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
FP7G100US60-ND	Transfer Molded Type IGBT Module	EPM7	43.72	37.81	35.45
FP7G50US60-ND	Transfer Molded Type IGBT Module	EPM7	36.81	31.30	29.00
FP7G75US60-ND	Transfer Molded Type IGBT Module	EPM7	38.66	33.44	31.35
FPAB30BH60-ND	SPM®, 600V, 30A, 1-Phase IGBT Inverter Bridge	SPM27-IA	20.63	17.54	16.25
FPDB30PH60-ND	SPM®, 600V, 30A, 2-Phase IGBT Inverter Bridge	SPM27-GA	22.00	18.70	17.33
FPDB50PH60-ND	SPM®, 600V, 50A, 2-Phase IGBT Inverter Bridge	SPM27-HA	28.30	24.06	22.29
FSAM10SH60A-ND	SPM®, 600V, 10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.27	20.63	19.11

***** *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

FAIRCHILD SEMICONDUCTOR (Cont.) SMART POWER MODULES

RoHS Compliant

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
FSAM15SH60A-ND	SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	25.68	21.83	20.23
FSAM20SH60A-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	28.53	24.26	22.48
FSAM30SH60A-ND	SPM®, 600V, 30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	32.83	27.91	25.86
FSAM15SM60A-ND	SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	23.68	20.13	18.65
FSAM20SM60A-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	26.53	22.56	20.90
FSAM30SM60A-ND	SPM®, 600V, 30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	30.83	26.21	24.28
FSAM75SM60A-ND	SPM®, 600V, 75A, 3-Phase IGBT Inverter Bridge	SPM32-CA	74.20	66.34	62.96
FSB50250SCT-ND	SPM®, 500V, 2.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	8.75	7.26	6.60
FSB50250STR-ND	SPM®, 500V, 2.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	2524.50/450		
FSB50250USCT-ND	SPM®, 500V, 1.1A, 3-Phase IGBT Inverter Bridge ***NEW!***	SPM23-BD	6.37	5.30	4.81
FSB50325SCT-ND	SPM®, 250V, 1.5A, 3-Phase IGBT Inverter Bridge	SPM23-BA	8.02	6.66	6.05
FSB50325STR-ND	SPM®, 250V, 1.5A, 3-Phase IGBT Inverter Bridge	SPM23-BA	2314.35/450		
FSB50450SCT-ND	SPM®, 500V, 3.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	9.47	7.87	7.15
FSB50450STR-ND	SPM®, 500V, 3.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	2735.10/450		
FSB50450USCT-ND	SPM®, 500V, 1.0A, 3-Phase FRFET Inverter ***NEW!***	SPM23-BD	6.97	5.79	5.26
FSB50550T-ND	SPM®, 500V, 3.5A, 3-Phase IGBT Inverter Bridge	SPM23-AC	9.63	7.90	7.13
FSB50550U-ND	SPM®, 500V, 2.0A, 3-Phase FRFET Inverter ***NEW!***	SPM22-AD	7.25	5.95	5.37
FSB50550USCT-ND	SPM®, 500V, 1.2A, 3-Phase IGBT Inverter Bridge ***NEW!***	SPM23-BD	7.24	6.02	5.47
FSB50825TB-ND	SPM®, 250V, 8A, 3-Phase FRFET Inverter	SPM23-CD	7.70	6.32	5.70
FSB50825USCT-ND	SPM®, 250V, 4A, 3-Phase FRFET Inverter	SPM23-BD	8.85	7.35	6.68
FSB50825USTR-ND	SPM®, 250V, 4A, 3-Phase FRFET Inverter	SPM23-BD	2555.10/450		
FSB52006S-ND	SPM®, 60V 3-Phase FRFET Inverter	SPM23-BA	6.13	4.93	4.49
FSBB15CH60C-ND	SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM27-CC	17.47	14.69	13.50
FSBB20CH60-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM27-CA	21.56	18.33	16.98
FSBB20CH60C-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM27-CC	23.24	19.76	18.31
FSBB20CH60CL-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge ***NEW!***	SPM27-CB	17.42	14.65	13.46
FSBB20CH60F-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM27-CA	22.82	19.40	17.98
FSBB20CH60L-ND	SPM®, 600V, 20A, 3-Phase IGBT Inverter Bridge	SPM27-CB	18.32	15.41	14.16
FSBB30CH60-ND	SPM®, 600V, 30A, 3-Phase IGBT Inverter Bridge	SPM27-EA	29.26	24.88	23.05
FSBB30CH60C-ND	SPM®, 600V, 30A, 3-Phase IGBT Inverter Bridge	SPM27-EC	29.40	24.99	23.16
FSBF3CH60B-ND	Motion-SPM®, 600V-3A, 3-Phase IGBT Inverter Bridge	SPM27-JA	14.56	12.25	11.26
FSBF5CH60B-ND	Motion-SPM®, 600V, 5A, 3-Phase IGBT Inverter Bridge	SPM27-JA	15.58	13.10	12.04
FSBF10CH60B-ND	Motion-SPM®, 600V, 10A, 3-Phase IGBT Inverter Bridge	SPM27-JA	17.95	15.10	13.88
FSBF10CH60BT-ND	Motion-SPM®, 600V, 10A, 3-Phase IGBT Inverter Bridge	SPM27-JA	16.94	14.25	13.09
FSBF10CH60BTL-ND	Motion-SPM®, 600V, 10A, 3-Phase IGBT Inverter Bridge	SPM27-JB	13.09	11.01	10.12
FSBF15CH60BT-ND	Motion-SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM27-JA	20.33	17.10	15.71
FSBF15CH60BTL-ND	Motion-SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM27-JB	15.70	13.21	12.14
FSBS10CH60-ND	SPM®, 600V, 10A, 3-Phase IGBT Inverter Bridge	SPM27-BA	16.87	14.19	13.04
FSBS15CH60-ND	SPM®, 600V, 15A, 3-Phase IGBT Inverter Bridge	SPM27-BA	20.24	17.02	15.64

FAIRCHILD SEMICONDUCTOR Digi-Reel® SPECIALIZED ICs

RoHS Compliant

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
FSHDMI04MTDXCT-ND	Wide Bandwidth Differential Signaling HDMI Switch	48-TSSOP	3.12	2.41	2.19
FSHDMI04MTDXTR-ND	Wide Bandwidth Differential Signaling HDMI Switch	48-TSSOP	1290.50/1,000		
FSHDMI08MTDXCT-ND	Wide Bandwidth HDMI Switch DDC/CEC	56-TSSOP	2.63	2.03	1.84
FSHDMI08MTDXTR-ND	Wide Bandwidth HDMI Switch DDC/CEC	56-TSSOP	1088.00/1,000		
FSTD3306L8XCT-ND	2-Bit Low Power Bus Switch	8-MicroPak	1.31	1.04	.93
FXL2T245L10XCT-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	1.07	.85	.77
FXL2T245L10XTR-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	1875.00/5,000		
FXL4T245BQXCT-ND	Low Voltage Dual Supply 4-Bit Signal Translator	14-DQFN	1.38	1.10	.99
FXL4T245BQXTR-ND	Low Voltage Dual Supply 4-Bit Signal Translator	14-DQFN	1530.00/3,000		
FXL4TD245UMXCT-ND	Low Volt. Dual Supply 4-Bit Signal Translator ***NEW!***	16-µMLP	.85	.66	.59
FXL4TD245UMXTR-ND	Low Volt. Dual Supply 4-Bit Signal Translator ***NEW!***	16-µMLP	1540.00/5,000		
FXL5T244BQXCT-ND	Low Voltage Dual Supply 5-Bit Signal Translator	14-DQFN	1.78	1.41	1.27
FXL5T244BQXTR-ND	Low Voltage Dual Supply 5-Bit Signal Translator	14-DQFN	1965.00/3,000		
FXLP34L6XCT-ND	Single Bit Unidirectional Translator	6-MicroPak	.80	.57	.49
FXLP34L6XTR-ND	Single Bit Unidirectional Translator	6-MicroPak	1060.00/5,000		
FXLP34P5XCT-ND	Single Bit Unidirectional Translator	SC70-5	.77	.60	.53
FXLP34P5XTR-ND	Single Bit Unidirectional Translator	SC70-5	756.00/3,000		
FXM2IC102L8X_F113CT-ND	Dual Voltage Supply Translator	8-MicroPak	1.29	1.02	.92
FXM2IC102L8X_F113TR-ND	Dual Voltage Supply Translator	8-MicroPak	2260.00/5,000		
MC34063AD-ND	SMPS Controller ***NEW!***	8-SOP	.71	.56	.49
ML4425CSXCT-ND	Sensorless BLDC Motor Controller	28-SOIC	10.46	8.88	8.19
ML6428CS2XCT-ND	S-Video Filter and 75-Ohm Line Drivers with Summed Composite Output	8-SOIC	4.61	3.77	3.39
USB1T11AMTC-ND	Universal Serial Bus Transceiver ***NEW!***	14-TSSOP	.88	.70	.62
USB1T11AMTCXCT-ND	Universal Serial Bus Transceiver	14-TSSOP	.95	.75	.68
USB1T11AMTCXTR-ND	Universal Serial Bus Transceiver	14-TSSOP	875.00/2,500		
USB1T11AMXCT-ND	Universal Serial Bus Transceiver	14-SOIC	.95	.75	.68
USB1T11AMXTR-ND	Universal Serial Bus Transceiver	14-SOIC	875.00/2,500		
USB1T1103MHXCT-ND	USB Peripheral Transceiver with Voltage Regulator	16-MLP	1.37	1.08	.98
USB1T1103MHXTR-ND	USB Peripheral Transceiver with Voltage Regulator	16-MLP	1512.00/3,000		
USB1T1105AMHXCT-ND	USB Peripheral Transceiver with Voltage Regulator	16-MHBCC	1.37	1.08	.98
USB1T1105AMHXTR-ND	USB Peripheral Transceiver with Voltage Regulator	16-MHBCC	1512.00/3,000		

FAIRCHILD SEMICONDUCTOR Digi-Reel® TinyLogic®

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
HS Series					
Surface Mount Product					
NC7S00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.48	.27	.21
NC7S00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	204.00/3,000		
NC7S00P5XCT-ND	2-Input NAND Gate	SC70-5	.66	.31	.22
NC7S00P5XTR-ND	2-Input NAND Gate	SC70-5	186.00/3,000		
NC7S02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.52	.30	.23
NC7S02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	222.00/3,000		
NC7S02P5XCT-ND	HS 2-Input NOR Gate* ***NEW!***	SC70-5	.68	.32	.22
NC7S02P5XTR-ND	HS 2-Input NOR Gate* ***NEW!***	SC70-5	192.00/3,000		
NC7S04M5XCT-ND	Single Inverter	SOT-23-5	.50	.29	.22
NC7S04M5XTR-ND	Single Inverter	SOT-23-5	213.00/3,000		
NC7S04P5XCT-ND	HS Inverter*	SC70-5	.66	.31	.22
NC7S04P5XTR-ND	HS Inverter*	SC70-5	186.00/3,000		
NC7S08P5XCT-ND	HS 2-Input AND Gate*	SC70-5	.66	.31	.22
NC7S08P5XTR-ND	HS 2-Input AND Gate*	SC70-5	186.00/3,000		
NC7S08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.48	.27	.21
NC7S08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	204.00/3,000		
NC7S14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.48	.27	.21
NC7S14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	204.00/3,000		
NC7S14P5XCT-ND	HS Inverter*	SC70-5	.66	.31	.22
NC7S14P5XTR-ND	HS Inverter*	SC70-5	186.00/3,000		
NC7S32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.48	.27	.21
NC7S32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	204.00/3,000		

FAIRCHILD SEMICONDUCTOR Digi-Reel® (Cont.) TinyLogic®

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
NC7S32P5XCT-ND	Single 2-Input OR Gate* ***NEW!***	SC70-5	.66	.31	.22
NC7S32P5XTR-ND	Single 2-Input OR Gate* ***NEW!***	SC70-5	186.00/3,000		
NC7S86M5XCT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.52	.30	.23
NC7S86M5XTR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	222.00/3,000		
NC7SB3157P6XCT-ND	SPDT Analog Switch or 2:1 Mux/Demux Bus Switch*	SC70-6	.59	.35	.28
NC7SB3157P6XTR-ND	SPDT Analog Switch or 2:1 Mux/Demux Bus Switch*	SC70-6	300.00/3,000		
NC7ST04M5XCT-ND	HST Inverter* ***NEW!***	SOT-23-5	.52	.30	.23
NC7ST04M5XTR-ND	HST Inverter* ***NEW!***	SOT-23-5	222.00/3,000		
NC7ST08M5XCT-ND	HST 2-Input AND Gate*	SOT-23-5	.52	.30	.23
NC7ST08M5XTR-ND	HST 2-Input AND Gate*	SOT-23-5	222.00/3,000		
NC7ST08P5XCT-ND	HST 2-Input AND Gate*	SC70-5	.66	.31	.22
NC7ST08P5XTR-ND	HST 2-Input AND Gate*	SC70-5	186.00/3,000		
NC7ST32M5XCT-ND	HST 2-Input OR Gate* ***NEW!***	SOT-23-5	.60	.28	.20
NC7ST32P5XCT-ND	HST 2-Input OR Gate* ***NEW!***	SC70-5	.55	.26	.18
NC7SU04M5XCT-ND	HS Unbuffered Inverter*	SOT-23-5	.52	.30	.23
NC7SU04M5XTR-ND	HS Unbuffered Inverter*	SOT-23-5	222.00/3,000		
UHS Series					
Surface Mount Product					
NC7NZ04K8XCT-ND	UHS Inverter* ***NEW!***	US8	.64	.42	.35
NC7NZ04K8XTR-ND	UHS Inverter* ***NEW!***	US8	438.00/3,000		
NC7NZ14K8XCT-ND	UHS Inverter*	US8	.64	.42	.35
NC7NZ14K8XTR-ND	UHS Inverter*	US8	438.00/3,000		
NC7NZ17K8XCT-ND	UHS Triple Buffer*	US8	.64	.42	.35
NC7NZ17K8XTR-ND	UHS Triple Buffer*	US8	438.00/3,000		
NC7NZ34K8XCT-ND	UHS Triple Buffer*	US8	.64	.42	.35
NC7NZ34K8XTR-ND	UHS Triple Buffer*	US8	438.00/3,000		
NC7SB3257P6XCT-ND	2:1 Multiplexer/Demultiplexer Bus Switch*	SC70-6	.65	.43	.35
NC7SB3257P6XTR-ND	2:1 Multiplexer/Demultiplexer Bus Switch*	SC70-6	441.00/3,000		
NC7SZ00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.51	.29	.22
NC7SZ00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	216.00/3,000		
NC7SZ00P5XCT-ND	2-Input NAND Gate	SC70-5	.66	.31	.22
NC7SZ00P5XTR-ND	2-Input NAND Gate	SC70-5	186.00/3,000		
NC7SZ02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.51	.29	.22
NC7SZ02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	216.00/3,000		
NC7SZ02P5XCT-ND	UHS 2-Input NOR Gate*	SC70-5	.66	.31	.22
NC7SZ02P5XTR-ND	UHS 2-Input NOR Gate*	SC70-5	186.00/3,000		
NC7SZ04M5XCT-ND	Single Inverter	SOT-23-5	.56	.32	.24
NC7SZ04M5XTR-ND	Single Inverter	SOT-23-5	240.00/3,000		
NC7SZ04P5XCT-ND	UHS Inverter*	SC70-5	.74	.34	.24
NC7SZ04P5XTR-ND	UHS Inverter*	SC70-5	207.00/3,000		
NC7SZ05M5XCT-ND	Single Inverter with Open Drain	SOT-23-5	.50	.29	.22
NC7SZ05M5XTR-ND	Single Inverter with Open Drain	SOT-23-5	216.00/3,000		
NC7SZ05P5XCT-ND	UHS Inverter with Open Drain* ***NEW!***	SC70-5	.66	.31	.22
NC7SZ05P5XTR-ND	UHS Inverter with Open Drain* ***NEW!***	SC70-5	186.00/3,000		
NC7SZ08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.47	.27	.21
NC7SZ08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	204.00/3,000		
NC7SZ08P5XCT-ND	2-Input AND Gate	SC70-5	.66	.31	.22
NC7SZ08P5XTR-ND	2-Input AND Gate	SC70-5	186.00/3,000		
NC7SZ11P6XCT-ND	UHS 3-Input AND Gate*	SC70-6	.52	.30	.23
NC7SZ11P6XTR-ND	UHS 3-Input AND Gate*	SC70-6	222.00/3,000		
NC7SZ14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.55	.32	.24
NC7SZ14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	237.00/3,000		
NC7SZ14P5XCT-ND	UHS Inverter*	SC70-5	.66	.31	.22
NC7SZ14P5XTR-ND	UHS Inverter*	SC70-5	186.00/3,000		
NC7SZ19P6XCT-ND	UHS 1-of-2 Decoder/Demultiplexer* ***NEW!***	SC70-6	.56	.33	.27
NC7SZ19P6XTR-ND	UHS 1-of-2 Decoder/Demultiplexer* ***NEW!***	SC70-6	285.00/3,000		
NC7SZ32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.51	.29	.22
NC7SZ32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	216.00/3,000		
NC7SZ32P5XCT-ND	UHS 2-Input OR Gate*	SC70-5	.66	.31	.22
NC7SZ32P5XTR-ND	UHS 2-Input OR Gate*	SC70-5	186.00/3,000		
NC7SZ57P6XCT-ND	UHS Universal Configurable 2-Input Logic Gates*	SC70-6	.52	.30	.23
NC7SZ57P6XTR-ND	UHS Universal Configurable 2-Input Logic Gates*	SC70-6	222.00/3,000		
NC7SZ58P6XCT-ND	UHS Universal Configurable 2-Input Logic Gates* ***NEW!***	SC70-6	.52	.30	.23
NC7SZ58P6XTR-ND	UHS Universal Configurable 2-Input Logic Gates* ***NEW!***	SC70-6	222.00/3,000		
NC7SZ66M5XCT-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	.46	.30	.25
NC7SZ66M5XTR-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	312.00/3,000		
NC7SZ66P5XCT-ND	Low Voltage Single SPST Normally Open Bus Switch*	SC70-5	.50	.30	.24
NC7SZ66P5XTR-ND	Low Voltage Single SPST Normally Open Bus Switch*	SC70-5	255.00/3,000		
NC7SZ74K8XCT-ND	UHS D-Type Flip-Flop with Preset Clear*	US8	.57	.38	.31
NC7SZ74K8XTR-ND	UHS D-Type Flip-Flop with Preset Clear*	US8	390.00/3,000		
NC7SZ86M5XCT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.60	.34	.26
NC7SZ86M5XTR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	258.00/3,000		
NC7SZ86P5XCT-ND	UHS 2-Input Exclusive OR Gate*	SC70-5	.66	.31	.22
NC7SZ86P5XTR-ND	UHS 2-Input Exclusive OR Gate*	SC70-5	186.00/3,000		
NC7SZ125L6XCT-ND	UHS Tri-State Buffer* ***NEW!***	6-MicroPak	.43	.29	.24
NC7SZ125L6XTR-ND	UHS Tri-State Buffer* ***NEW!***	6-MicroPak	570.00/5,000		
NC7SZ125M5XCT-ND	Single Tri-State Buffer OE=Low	SOT-23-5	.51	.29	.22
NC7SZ125M5XTR-ND	Single Tri-State Buffer OE=Low	SOT-23-5	216.00/3,000		
NC7SZ125P5XCT-ND	UHS Tri-State Buffer, Non-Inverting	SC70-5	.66	.31	.22
NC7SZ125P5XTR-ND	UHS Tri-State Buffer, Non-Inverting	SC70-5	186.00/3,000		
NC7SZ126M5XCT-ND	Single Tri-State Buffer OE=High	SOT-23-5	.51	.29	.22
NC7SZ126M5XTR-ND	Single Tri-State Buffer OE=High	SOT-23-5	216.00/3,000		
NC7SZ126P5XCT-ND	Tri-State Buffer	SC70-5	.66	.31	.22
NC7SZ126P5XTR-ND	Tri-State Buffer	SC70-5	186.00/3,000		
NC7SZ157P6XCT-ND	UHS 2-Input Non-Inverting Mux*	SC70-6	.47	.27	.20
NC7SZ157P6XTR-ND	UHS 2-Input Non-Inverting Mux*	SC70-6	201.00/3,000		
NC7SZ175P6XCT-ND	D-Type Flip-Flop with Async. Clear	SC70-6	.52	.30	.23
NC7SZ175P6XTR-ND	D-Type Flip-Flop with Async. Clear	SC70-6	222.00/3,000		
NC7SZ332P6XCT-ND	UHS 3-Input OR Gate* ***NEW!***	SC70-6	.56	.32	.24
NC7SZ332P6XTR-ND	UHS 3-Input OR Gate* ***NEW!***	SC70-6	240.00/3,000		
NC7SZ374P6XCT-ND	Tri-State UHS D-Type Flip-Flop*	SC70-6	.52	.30	.23
NC7SZ374P6XTR-ND	Tri-State UHS D-Type Flip-Flop*	SC70-6	222.00/3,000		
NC7SZ384M5XCT-ND	1-Bit Low Power Bus Switch	SOT-23-5	.62	.37	.30
NC7SZ384M5XTR-ND	1-Bit Low Power Bus Switch	SOT-23-5	315.00/3,000		
NC7SZU04M5XCT-ND	UHS Unbuffered Inverter*	SOT-23-5	.50	.29	.22
NC7SZU04M5XTR-ND	UHS Unbuffered Inverter*	SOT-23-5	216.00/3,000		
NC7SZU04P5XCT-ND	UHS Unbuffered Inverter* ***NEW!***	SC70-5	.66	.31	.22
NC7SZU04P5XTR-ND	UHS Unbuffered Inverter* ***NEW!***	SC70-5	186.00/3,000		
NC7WB66K8XCT-ND	Low Voltage Dual SPST Normally Open Analog Switch*	US8	.59	.42	.36
NC7WB66K8XTR-ND	Low Voltage Dual SPST Normally Open Analog Switch*	US8	501.00/3,000		
NC7WZ00K8XCT-ND	UHS Dual 2-Input NAND Gate* ***NEW!***	US8	.57	.38	.31
NC7WZ00K8XTR-ND	UHS Dual 2-Input NAND Gate* ***NEW!***	US8	390.00/3,000		
NC7WZ02K8XCT-ND	UHS Dual 2-Input NOR Gate*	US8	.57	.38	.31
NC7WZ02K8XTR-ND	UHS Dual 2-Input NOR Gate*	US8	390.00/3,000		
NC7WZ04L6XCT-ND	UHS Dual Inverter* ***NEW!***	6-MicroPak	.53	.35	.29
NC7WZ04L6XTR-ND	UHS Dual Inverter* ***NEW!***	6-MicroPak	570.00/5,000		
NC7WZ04P6XCT-ND	UHS Dual Inverter*	SC70-6	.52	.30	.23

***** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

FAIRCHILD SEMICONDUCTOR DigiReel® *(Cont.)*

TinyLogic®

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NC7WZ04P6XTR-ND	UHS Dual Inverter*	SC70-6	225.00/3,000		
NC7WZ07P6XCT-ND	UHS Dual Buffer, OD Outputs*	SC70-6	.47	.27	.21
NC7WZ07P6XTR-ND	UHS Dual Buffer, OD Outputs*	SC70-6	201.00/3,000		
NC7WZ08K8XCT-ND	UHS Dual 2-Input AND Gate*	US8	.57	.38	.31
NC7WZ08K8XTR-ND	UHS Dual 2-Input AND Gate*	US8	390.00/3,000		
NC7WZ14P6XCT-ND	UHS Dual Inverter*	SC70-6	.50	.29	.22
NC7WZ14P6XTR-ND	UHS Dual Inverter*	SC70-6	213.00/3,000		
NC7WZ16P6XCT-ND	Dual Buffer	SC70-6	.47	.27	.21
NC7WZ16P6XTR-ND	Dual Buffer	SC70-6	201.00/3,000		
NC7WZ17P6XCT-ND	UHS Dual Buffer*	SC70-6	.47	.27	.21
NC7WZ17P6XTR-ND	UHS Dual Buffer*	SC70-6	201.00/3,000		
NC7WZ32K8XCT-ND	UHS Dual 2-Input OR Gate*	US8	.57	.38	.31
NC7WZ32K8XTR-ND	UHS Dual 2-Input OR Gate*	US8	390.00/3,000		
NC7WZ125K8XCT-ND	UHS Tri-State Dual Buffer*	US8	.57	.38	.31
NC7WZ125K8XTR-ND	UHS Tri-State Dual Buffer*	US8	390.00/3,000		
NC7WZ126K8XCT-ND	UHS Tri-State Dual Buffer* ***NEW!***	US8	.57	.38	.31
NC7WZ126K8XTR-ND	UHS Tri-State Dual Buffer* ***NEW!***	US8	390.00/3,000		
NC7WZ132K8XCT-ND	UHS Dual 2-Input NAND Gate*	US8	.57	.38	.31
NC7WZ132K8XTR-ND	UHS Dual 2-Input NAND Gate*	US8	390.00/3,000		
NC7WZ240K8XCT-ND	UHS Dual Inverting Tri-State Buffer* ***NEW!***	US8	.57	.38	.31
NC7WZ240K8XTR-ND	UHS Dual Inverting Tri-State Buffer* ***NEW!***	US8	390.00/3,000		
NC7WZ241K8XCT-ND	UHS Tri-State Dual Buffer*	US8	.57	.38	.31
NC7WZ241K8XTR-ND	UHS Tri-State Dual Buffer*	US8	390.00/3,000		
NC7WZU04P6XCT-ND	UHS Dual Unbuffered Inverter*	SC70-6	.56	.32	.24
NC7WZU04P6XTR-ND	UHS Dual Unbuffered Inverter*	SC70-6	240.00/3,000		
ULP Series — RoHS Compliant					
NC7NP14L8XCT-ND	ULP Triple Inverter	8-MicroPak	.70	.49	.42
NC7NP14L8XTR-ND	ULP Triple Inverter	8-MicroPak	920.00/5,000		
NC7SP04P5XCT-ND	ULP Single Inverter ***NEW!***	SC70-5	.44	.25	.19
NC7SP04P5XTR-ND	ULP Single Inverter ***NEW!***	SC70-5	189.00/3,000		
NC7SP08P5XCT-ND	ULP 2-Input AND Gate ***NEW!***	SC70-5	.50	.29	.22
NC7SP08P5XTR-ND	ULP 2-Input AND Gate ***NEW!***	SC70-5	213.00/3,000		
NC7SP17P5XCT-ND	ULP Single Buffer	SC70-5	.63	.36	.27
NC7SP17P5XTR-ND	ULP Single Buffer	SC70-5	270.00/3,000		
NC7SP74K8XCT-ND	ULP D-Type Flip-Flop ***NEW!***	US8	.66	.47	.40
NC7SP74K8XTR-ND	ULP D-Type Flip-Flop ***NEW!***	US8	558.00/3,000		
NC7SP126P5XCT-ND	ULP Tri-State Buffer ***NEW!***	SC70-5	.48	.29	.23
NC7SP126P5XTR-ND	ULP Tri-State Buffer ***NEW!***	SC70-5	246.00/3,000		
NC7SPU04P5XCT-ND	ULP Unbuffered Inverter	SC70-5	.56	.32	.24
NC7SPU04P5XTR-ND	ULP Unbuffered Inverter	SC70-5	240.00/3,000		
NC7SV04P5XCT-ND	ULP-A Inverter	SC70-5	.47	.27	.21
NC7SV04P5XTR-ND	ULP-A Inverter	SC70-5	201.00/3,000		
NC7SV08P5XCT-ND	ULP-A 2-Input AND Gate ***NEW!***	SC70-5	.47	.27	.21
NC7SV08P5XTR-ND	ULP-A 2-Input AND Gate ***NEW!***	SC70-5	201.00/3,000		
NC7SV17P5XCT-ND	ULP-A Single Buffer ***NEW!***	SC70-5	.56	.33	.27
NC7SV17P5XTR-ND	ULP-A Single Buffer ***NEW!***	SC70-5	285.00/3,000		
NC7SV74K8XCT-ND	ULP-A D-Type Flip-Flop ***NEW!***	US8	.61	.43	.37
NC7SV74K8XTR-ND	ULP-A D-Type Flip-Flop ***NEW!***	US8	513.00/3,000		
NC7SV125P5XCT-ND	ULP-A Tri-State Buffer ***NEW!***	SC70-5	.52	.37	.32
NC7SV125P5XTR-ND	ULP-A Tri-State Buffer ***NEW!***	SC70-5	438.00/3,000		
NC7SVL04L6XCT-ND	ULP-A Single Inverter ***NEW!***	6-MicroPak	.50	.36	.31
NC7SVL04P5XCT-ND	ULP-A Single Inverter ***NEW!***	SC70-5	.51	.29	.23
NC7SVL08L6XCT-ND	ULP-A Two-Input AND Gate ***NEW!***	6-MicroPak	.50	.36	.31
NC7SVL08P5XCT-ND	ULP-A Two-Input AND Gate ***NEW!***	SC70-5	.51	.29	.23
NC7SVL32L6XCT-ND	ULP-A Two-Input OR Gate ***NEW!***	6-MicroPak	.50	.36	.31
NC7SVL32P5XCT-ND	ULP-A Two-Input OR Gate ***NEW!***	SC70-5	.51	.29	.23

FAIRCHILD SEMICONDUCTOR

EVALUATION BOARDS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FEB167-ND	Evaluation Board for FAN2106	—	59.50	—	—
FEB178-ND	Evaluation Board for FAN5350	—	74.25	—	—

PERICOM Semiconductor Corporation

SOTiny™

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Surface Mount Product					
PI3A3160CZGEXCT-ND	3V, 0.8-Ohm Dual SPDT Analog Switch*	12-TDFN	.90	.80	.72
PI5A3157CEXCT-ND	Low Voltage Dual SPDT Analog Switch*	SC70-6	.57	.50	.46
PI5A3157CEXTR-ND	Low Voltage Dual SPDT Analog Switch*	SC70-6	1275.00/3,000		
PI5A3158ZAEXCT-ND	Low Voltage Dual SPDT Analog Switch*	12-TDFN	.63	.56	.51
PI5C3301TEXCT-ND	Single Bit Bus Switch*	SOT-23-5	.67	.59	.54
PI5C3303TEXCT-ND	2:1 Mux/Demux Bus Switch*	SOT-23-6	.84	.74	.67
PI5C3303TEXTR-ND	2:1 Mux/Demux Bus Switch*	SOT-23-6	1875.00/3,000		
PI74STX1G08CXCT-ND	Single 2-Input AND Gate	SC70-5	.32	.28	.26
PI74STX1G08CEXCT-ND	Single 2-Input AND Gate*	SC70-5	.32	.28	.26
PI74STX1G08CEXTR-ND	Single 2-Input AND Gate*	SC70-5	712.50/3,000		
PI74STX1G126CEXCT-ND	Buffer with Tri-State Output*	SC70-5	.30	.27	.24
PI90LV01TEXCT-ND	LVDS High Speed Differential Line Driver*	SOT-23-5	1.09	.96	.87
PI90LV01TEXTR-ND	LVDS High Speed Differential Line Driver*	SOT-23-5	2437.50/3,000		

PERICOM Semiconductor Corporation

LAN / ANALOG SWITCH PRODUCTS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI2LVD412ZHE-ND	1.8V, LVDS, 4-Channel Diff., 2:1 Mux/Demux Switch	42-TQFN	4.18	3.68	3.33
PI2PCIE412-CZHE-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch	42-TQFN	3.67	3.24	2.93
PI2PCIE412-CZHEXCT-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch	42-TQFN	3.74	3.30	2.98
PI2PCIE412-CZHEXTR-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch	42-TQFN	9800.00/3,500		
PI3A212ZLEXCT-ND	Dual SPDT Analog Switch	10-TQFN	.67	.59	.54
PI3A212ZLEXTR-ND	Dual SPDT Analog Switch	10-TQFN	1750.00/3,500		
PI3HDMI412-BAE-ND	4-Channel Diff., 2:1 Mux/Demux, DVI/HDMI Switch	48-TSSOP	3.34	2.94	2.66
PI3HDMI412FTBE-ND	4-Channel Diff., 2:1 Mux/Demux, DVI/HDMI Switch	48-BQSOP	3.34	2.94	2.66
PI3L301DAE-ND	3.3V, 16-Bit to 8-Bit Mux/Demux	48-TSSOP	1.94	1.71	1.55
PI3L500ZFE-ND	3.3V, 8-Channel, 2:1 Mux/Demux Gigabit Ethernet LAN Switch with Single Enable	56-TQFN	2.79	2.46	2.23

PERICOM Semiconductor Corporation *(Cont.)*

LAN / ANALOG SWITCH PRODUCTS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3USB10MZKEXCT-ND	3.3V, Wide Bandwidth, 2-Channel, 2:1 Mux/Demux USB 2.0 Switch with Single Enable	12-TQFN	.75	.67	.60
PI3USB10MZKEXTR-ND	3.3V, Wide Bandwidth, 2-Channel, 2:1 Mux/Demux USB 2.0 Switch with Single Enable	12-TQFN	1968.75/3,500		
PI5A100WE-ND	Quad SPDT Analog Switch	16-SOIC	2.76	2.43	2.20
PI5A4213GAEXCT-ND	Low Voltage Dual SP3T Analog Switch	12-CSP	1.00	.89	.80
PI5A4684GAEXCT-ND	Dual SPDT Analog Switch	10-CSP	.90	.80	.72
PI5A4684GAEXTR-ND	Dual SPDT Analog Switch	10-CSP	2025.00/3,000		
PI5L200QE-ND	Quad SPDT LAN Switch	16-QSOP	2.76	2.43	2.20
PI5V330WE-ND	Quad 2:1 Multiplexer/Demultiplexer	16-SOIC	2.51	2.21	2.00
PS391ESEE-ND	Quad SPST, 17V N.C. Analog Switch	16-SOIC	2.44	2.15	1.95
PS392ESEE-ND	Quad SPST, 17V N.O. Analog Switch	16-SOIC	2.44	2.15	1.95
PS393ESEE-ND	Quad SPST, 17V (2)N.O., (2)N.C. Analog Switch	16-SOIC	2.44	2.15	1.95

PERICOM Semiconductor Corporation

LVDS DATA TRANSMISSION

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI90LV028AWE-ND	Dual LVDS Line Receiver	8-SOIC	2.51	2.21	2.00
PI90LV031AWE-ND	Quad LVDS Line Driver	16-SOIC	4.18	3.68	3.33
PI90LV032AWE-ND	Quad LVDS Line Receiver	16-SOIC	4.18	3.68	3.33
PI90LV047ALE-ND	3V, Quad LVDS Differential Line Driver	16-TSSOP	3.34	2.94	2.66
PI90LV048ALE-ND	3V, Quad LVDS Differential Line Receiver	16-TSSOP	3.34	2.94	2.66
PI90LV179WE-ND	Single LVDS Transceiver	8-SOIC	2.92	2.58	2.33

PERICOM Semiconductor Corporation

74AVC 2.5V BUS DRIVERS AND FLIP-FLOPS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74AVC164245AE-ND	Tri-State, 3.3V to 1.8V, 16-Bit Level Shifter	48-TSSOP	4.01	3.53	3.20
PI74AVC164245LAAE-ND	Tri-State, 3.3V to 1.5V, 16-Bit Level Shifter	48-TSSOP	4.76	4.19	3.80

PERICOM Semiconductor Corporation

74LPT DOUBLE DENSITY 3.3V LOGIC WITH 5V TOLERANT I/O — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74LPT16244AAE-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.75	1.55	1.40
PI74LPT16245AAE-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.75	1.55	1.40

PERICOM Semiconductor Corporation

3.3V BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3B32X245BE-ND	Hot Insertion 16-Bit, 2-Port Bus Switch*	40-BQSOP	2.62	2.31	2.09
PI3B32X384BE-ND	20-Bit, 2-Port NanoSwitch™*	48-BQSOP	2.37	2.09	1.89
PI3B33X257BE-ND	12-24 Multiplexer/Demultiplexer Bus Switch*	48-BQSOP	3.46	3.05	2.76
PI3B3245QE-ND	Hot Insertion 8-Bit, 2-Port, NanoSwitch™*	20-QSOP	1.32	1.17	1.06
PI3B3253QE-ND	Dual 4:1 Mux/Demux NanoSwitch™*	16-QSOP	1.40	1.24	1.12
PI3B3257Q-ND	Quad 2:1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.40	1.24	1.12
PI3B3257QE-ND	Quad 2:1 Mux/Demux Hot Insertion Bus Switch*	16-QSOP	1.40	1.24	1.12
PI3B16245AE-ND	Hot Insertion, 16-Bit, 2-Port Bus Switch*	48-BQSOP	2.92	2.58	2.33
PI3C3125WE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch w/ Individual Enables*	14-SOIC	1.04	.92	.83
PI3C3126LE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch w/ Individual Enables*	14-TSSOP	1.12	.99	.90
PI3C3126QE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch w/ Individual Enables*	16-QSOP	1.04	.92	.83
PI3C3245QE-ND	Hot Insertion, 8-Bit, 2-Port Bus Switch*	20-QSOP	1.10	.98	.88
PI3C3384QE-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch*	24-QSOP	1.10	.98	.88
PI3CH281QE-ND	Low Voltage, High Bandwidth, 2-Channel, 4:1 Mux/Demux NanoSwitch™, with Single Enable*	16-QSOP	1.04	.92	.83

PERICOM Semiconductor Corporation

LOW VOLTAGE TRANSLATOR BUS SWITCH — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3VT34X245BE-ND	32-Bit, Low Voltage Level Shifting Switch	80-BQSOP	4.18	3.68	3.33
PI3VT3245LE-ND	8-Bit, Low Voltage Level Shifting Switch	20-TSSOP	1.30	1.15	1.04
PI3VT3306LE-ND	2-Bit, 2-Port, Low Voltage Translator Bus Switch	8-TSSOP	1.10	.98	.88

PERICOM Semiconductor Corporation

5V BUS SWITCH PRODUCTS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5C32X245BE-ND	16-Bit Bus Switch	40-BQSOP	1.92	1.70	1.53
PI5C3125QE-ND	Quad Bus Switch with Individual Enable	16-QSOP	.87	.77	.70
PI5C3126QE-ND	Quad Bus Switch with Individual Enable	16-QSOP	.87	.77	.70
PI5C3245QE-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)	20-QSOP	.87	.77	.70
PI5C3251QE-ND	8:1 Mux/Demux Bus Switch	16-QSOP	.87	.77	.70
PI5C3253QE-ND	Dual 4:1 Mux/Demux Bus Switch	16-QSOP	.87	.77	.70
PI5C3257QE-ND	Quad 2:1 Mux/Demux Bus Switch	16-QSOP	.87	.77	.70
PI5C3305LE-ND	2-Bit Bus Switch with Individual Enables	8-TSSOP	.84	.74	.67
PI5C3306LE-ND	2-Bit Bus Switch with Active Low Enables	8-TSSOP	.84	.74	.67
PI5C3384QE-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.87	.77	.70
PI5C3861QE-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.87	.77	.70
PI5C16211AE-ND	24-Bit, Bus Switch	56-TSSOP	2.00	1.77	1.60
PI5C162861BE-ND	20-Bit, 2-Port Bus Switch	48-BQSOP	1.92	1.70	1.53

PERICOM Semiconductor Corporation

VIDEO SWITCH PRODUCT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3V512QE-ND	3.3V Wideband/Video Switch, 5-Port, 2:1 Mux/Demux	24-QSOP	.90	.80	.72
PI5V330QE-ND	Quad 2-1 Multiplexer Video Switch	16-QSOP	2.51	2.21	2.00
PI5V331QE-ND	Dual 4-Channel Video Multiplexer/Demux	16-QSOP	2.51	2.21	2.00
PI5V332QE-ND	Quad Video Switch	16-QSOP	2.51	2.21	2.00

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* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

PERICOM Semiconductor Corporation

CLOCK DISTRIBUTION PRODUCTS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI6C557-03LE-ND	PCI-Express Clock	16-TSSOP	.98	.86	.78
PI6C2405A-1HWE-ND	Zero-Delay Clock Buffer	8-SOIC	2.10	1.86	1.68
PI6C3421ATEXCT-ND	27MHz Spread Spectrum Clock Synthesizer	SOT-23-6	1.00	.89	.80
PI6C3421ATEXTR-ND	27MHz Spread Spectrum Clock Synthesizer	SOT-23-6	2250.00/3,000		
PI6C4511WE-ND	PLL Clock Multiplier	8-SOIC	1.17	1.03	.94
PI6C10804WE-ND	1.8V/2.5V, 250MHz, 1:4 Networking Clock Buffer	8-SOIC	1.34	1.18	1.07
PI6C10806LE-ND	1.8V/2.5V, 250MHz, Low Skew 1:6 Crystal to LVCMOS Clock Buffer	16-TSSOP	1.50	1.33	1.20
PI6C10807LE-ND	1.8V/2.5V, 250MHz, 1:10 Networking Clock Buffer	20-TSSOP	1.67	1.47	1.33
PI6C20400HE-ND	1:4 Clock Driver for Intel PCI-Express Chipsets	28-SSOP	2.09	1.84	1.67
PI6C20400LE-ND	1:4 Clock Driver for Intel PCI-Express Chipsets	28-TSSOP	2.25	1.99	1.80
PI6C48533-01LE-ND	3.3V Low Skew 1-to-4 Diff./LVCMOS to LVPECL Fanout Buffer	20-TSSOP	3.17	2.80	2.53
PI6C48535-01LE-ND	3.3V Low Skew 1-to-4 LVTTL/LVCMOS to LVPECL Fanout Buffer	20-TSSOP	3.17	2.80	2.53
PI6CV304LE-ND	160MHz Clock Buffer	8-TSSOP	1.75	1.55	1.40
PI6CV304WE-ND	160MHz Clock Buffer	8-SOIC	1.75	1.55	1.40
PI6CV2304LE-ND	160MHz Clock Buffer	8-TSSOP	1.67	1.47	1.33
PI6CV2304WE-ND	160MHz Clock Buffer	8-SOIC	1.67	1.47	1.33
PI6CX100-27WE-ND	27MHz, 3.3V VCXO for Set-Top Applications	8-SOIC	.65	.58	.52
PI49FCT805ATSE-ND	Non-Inverting Clock Driver	20-SOIC	2.09	1.84	1.67
PI49FCT3803LE-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-TSSOP	1.57	1.39	1.26
PI49FCT3803QE-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-QSOP	1.57	1.39	1.26
PI49FCT3805DQE-ND	3.3V, 2 x 1:5 CMOS Clock Driver	20-QSOP	1.75	1.55	1.40
PI49FCT3807ASE-ND	3.3V Fast CMOS Clock Driver	20-SOIC	1.05	.93	.84
PI49FCT3807CQE-ND	3.3V Fast CMOS Clock Driver	20-QSOP	.75	.67	.60
PI49FCT3807QE-ND	3.3V Fast CMOS Clock Driver	20-QSOP	.75	.67	.60
PI49FCT32805QE-ND	3.3V, 2 x 1:5 CMOS Clock Driver	20-QSOP	3.59	3.17	2.86
PI49FCT32807HE-ND	3.3V, 1:10 CMOS Clock Driver	20-SSOP	3.59	3.17	2.86

PERICOM Semiconductor Corporation

PCI BRIDGE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI7C9X110BNBE-ND	PCI Express-to-PCI Reversible Bridge	160-LFBGA	20.56	18.10	16.38
PI7C8150BMAE-ND	Async. 2-Port PCI-to-PCI Bridge	208-FQFP	17.45	15.37	13.90
PI7C8150BMAE-ND	2-Port PCI-to-PCI Bridge	160-MQFP	17.45	15.37	13.90

PERICOM Semiconductor Corporation

SPECIALTY INTERFACE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI4ULS3V08MZLE-ND	8-Bit, Non-Inverting Bus Transceiver	32-TQFN	2.42	2.14	1.93
PI4ULS3V16AE-ND	16-Bit, Non-Inverting Bus Transceiver	56-TSSOP	3.09	2.72	2.47
PI74HSTL1212AE-ND	24-Bit, 1.8V to 3.3V Bi-Directional Level Shifting Transceiver	64-TSSOP	5.85	5.15	4.66
PI74STX2G4245ZEEXCT-ND	2-Bit, Level Shifting Buffer/Transceiver	12-TDFN	.70	.62	.56
PI74STX2G4245ZEEXTR-ND	2-Bit, Level Shifting Buffer/Transceiver	12-TDFN	1837.50/3,500		

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74AC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74AC00FNFCT-ND	Quad 2-Input NAND Gate*	14-SOL	.66	.51	.45
TC74AC00FNFTR-ND	Quad 2-Input NAND Gate*	14-SOL	545.00/2,500		
TC74AC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	307.13/2,500		
TC74AC00PF-ND	Quad 2-Input NAND Gate*	14-Dip	.43	.32	.28
TC74AC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL	320.63/2,500		
TC74AC02FNFCT-ND	Quad 2-Input NOR Gate*	14-SOL	.48	.38	.29
TC74AC02FNFTR-ND	Quad 2-Input NOR Gate*	14-SOL	367.50/2,500		
TC74AC04FNF-ND	Hex Inverter*	14-SOL	.43	.32	.28
TC74AC14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.52	.39	.33
TC74AC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.71	.53	.45
TC74AC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	577.50/2,500		
TC74AC138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74AC244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.73	.55	.41

TOSHIBA
Leading Innovation >>> Digi-Reel®

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74ACT00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	357.50/2,500		
TC74ACT14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.50	.38	.32
TC74ACT32FNTR-ND	Quad 2-Input OR Gate	14-SOL	400.00/2,500		
TC74ACT138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74ACT157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.84	.66	.57
TC74ACT244FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL	291.00/1,000		
TC74ACT244PF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.73	.57	.50
TC74ACT374FW-ND	Octal D-Type Flip-Flop	20-SOL	.73	.57	.50
TC74ACT541PF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.77	.60	.53

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74HC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74HC00AFNF-ND	Quad 2-Input NAND Gate*	14-SOL	.49	.33	.27
TC74HC00APF-ND	Quad 2-Input NAND Gate*	14-Dip	.47	.31	.26
TC74HC02AFN-ND	Quad 2-Input NOR Gate	14-SOL	.49	.40	.27
TC74HC02AFNF-ND	Quad 2-Input NOR Gate*	14-SOL	.52	.35	.28
TC74HC02APF-ND	Quad 2-Input NOR Gate*	14-Dip	.49	.33	.27
TC74HC04AFNF-ND	Hex Inverter*	14-SOL	.49	.33	.27
TC74HC04AFNFCT-ND	Hex Inverter*	14-SOL	.54	.36	.30
TC74HC04AFNFTR-ND	Hex Inverter*	14-SOL	310.00/2,500		
TC74HC04APF-ND	Hex Inverter*	14-Dip	.47	.31	.26
TC74HC08AFNF-ND	Quad 2-Input AND Gate*	14-SOL	.49	.33	.27
TC74HC08AFNFCT-ND	Quad 2-Input AND Gate*	14-SOL	.58	.38	.32
TC74HC08APF-ND	Quad 2-Input AND Gate*	14-Dip	.49	.33	.27

TOSHIBA
Leading Innovation >>> Digi-Reel® *(Cont.)*

74HC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74HC14AFNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.48	.32	.26
TC74HC14AFNFCT-ND	Hex Schmitt Trigger Inverter*	14-SOL	.54	.36	.29
TC74HC14AFNFTR-ND	Hex Schmitt Trigger Inverter*	14-SOL	305.00/2,500		
TC74HC14APF-ND	Hex Schmitt Trigger Inverter*	14-Dip	.51	.34	.28
TC74HC74APF-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-Dip	.51	.34	.28
TC74HC86APF-ND	Quad Exclusive OR Gate*	14-Dip	.56	.41	.36
TC74HC123APF-ND	Dual Monostable Multivibrator*	16-Dip	.62	.46	.39
TC74HC125AFNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	347.63/2,500		
TC74HC125AFNFCT-ND	Quad Bus Buffer, Tri-State*	14-SOL	.54	.39	.33
TC74HC125AFNFTR-ND	Quad Bus Buffer, Tri-State*	14-SOL	382.50/2,500		
TC74HC132AP-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.57	.43	.32
TC74HC132APF-ND	Quad 2-Input Schmitt NAND Gate*	14-Dip	.67	.50	.43
TC74HC138AFNF-ND	3-to-8 Line Decoder*	16-SOL	.44	.33	.28
TC74HC138APF-ND	3-to-8 Line Decoder*	16-Dip	.49	.37	.31
TC74HC139AFNTR-ND	Dual 2-to-4 Line Decoder	16-SOL	400.00/2,500		
TC74HC139APF-ND	Dual 2-to-4 Line Decoder*	16-Dip	.49	.37	.31
TC74HC173AP-ND	Quad D-Type Register, Tri-State	16-Dip	.60	.46	.34
TC74HC245AFWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	161.00/1,000		
TC74HC245APF-ND	Octal Bus Transceiver, Tri-State*	20-Dip	.60	.47	.41
TC74HC273APF-ND	Octal D-Type Flip Flop with Clear*	20-Dip	.65	.51	.44
TC74HC373AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	240.00/1,000		
TC74HC373APF-ND	Octal D-Type Latch, Tri-State*	20-Dip	.60	.47	.41
TC74HC374AFWTR-ND	Octal D-Type Flip-Flop	20-SOL	190.00/1,000		
TC74HC541APF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.60	.47	.41
TC74HC573APF-ND	Octal D-Type Latch, Tri-State*	20-Dip	.60	.47	.41
TC74HC574APF-ND	Octal D-Type Flip-Flop, Tri-State*	20-Dip	.60	.47	.41
TC74HC592APF-ND	8-Bit Register/Binary Counter*	16-Dip	1.06	.85	.74
TC74HC595AFNF-ND	8-Bit Shift Register/Latch, Tri-State*	16-SOL	.67	.49	.42
TC74HC595APF-ND	8-Bit Shift Register/Latch, Tri-State*	16-Dip	.67	.50	.43
TC74HC4040AFNF-ND	12-Stage Binary Counter*	16-SOL	.66	.49	.42
TC74HC4040APF-ND	12-Stage Binary Counter*	16-Dip	.67	.50	.43
TC74HC4051APF-ND	8-Channel Analog Multiplexer*	16-Dip	.74	.58	.50
TC74HC4052APF-ND	Dual 4-Channel Analog Multiplexer*	16-Dip	.74	.58	.50
TC74HC4053AFNF-ND	Triple 2-Channel Analog Multiplexer*	16-SOL	.64	.47	.41
TC74HC4053AP-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.60	.45	.34
TC74HC4066AFNF-ND	Quad Bilateral Switch*	14-SOL	.57	.42	.36
TC74HC4066APF-ND	Quad Bilateral Switch*	14-Dip	.67	.50	.43

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74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74LCX00FNF-ND	Quad 2-Input NAND Gate*	14-SOL	.61	.45	.39
TC74LCX00FTFCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.56	.40	.34
TC74LCX00FTFTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	316.00/2,000		
TC74LCX02FTCT-ND	Quad 2-Input NOR Gate	14-TSSOP	.51	.41	.31
TC74LCX02FTFCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.51	.41	.31
TC74LCX04FNF-ND	Hex Inverter*	14-SOL	.61	.45	.39
TC74LCX04FTCT-ND	Hex Inverter	14-TSSOP	.51	.41	.31
TC74LCX04FTFCT-ND	Hex Inverter*	14-TSSOP	.51	.41	.31
TC74LCX04FTFTR-ND	Hex Inverter*	14-TSSOP	316.00/2,000		
TC74LCX08FTFTR-ND	Quad 2-Input AND Gate*	14-TSSOP	316.00/2,000		
TC74LCX14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.61	.45	.39
TC74LCX14FTFCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.56	.40	.34
TC74LCX14FTFTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	316.00/2,000		
TC74LCX32FTFCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.56	.40	.34
TC74LCX32FTFTR-ND	Quad 2-Input OR Gate*	14-TSSOP	316.00/2,000		
TC74LCX74FTCT-ND	Dual D-Type Flip-Flop with Preset and Clear	14-TSSOP	.53	.43	.32
TC74LCX74FTFCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.58	.41	.35
TC74LCX86FTCT-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.54	.44	.33
TC74LCX125FTFCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.56	.40	.34
TC74LCX125FTFTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	316.00/2,000		
TC74LCX138FTFCT-ND	3-to-8 Line Decoder*	16-TSSOP	.49	.37	.28
TC74LCX138FTFTR-ND	3-to-8 Line Decoder*	16-TSSOP	378.00/2,000		
TC74LCX157FTFCT-ND	Quad 2-Channel Multiplexer*	16-TSSOP	.64	.46	.39
TC74LCX157FTFTR-ND	Quad 2-Channel Multiplexer*	16-TSSOP	362.00/2,000		
TC74LCX244FTFCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.72	.51	.44
TC74LCX244FTFTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	406.00/2,000		
TC74LCX245FTFCT-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	.80	.56	.48
TC74LCX245FTFTR-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	450.00/2,000		
TC74LCX373FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.53	.40	.30
TC74LCX373FTFCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.72	.51	.43
TC74LCX373FTFTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	404.00/2,000		
TC74LCX374FTFCT-ND	Octal D-Type Flip-Flop*	20-TSSOP	.74	.52	.45
TC74LCX540FTFCT-ND	Octal Inverting Bus Buffer*	20-TSSOP	.74	.52	.45
TC74LCX540FTFTR-ND	Octal Inverting Bus Buffer*	20-TSSOP	418.00/2,000		
TC74LCX541FTFCT-ND	Octal Bus Buffer*	20-TSSOP	.74	.52	.45
TC74LCX541FTFTR-ND	Octal Bus Buffer*	20-TSSOP	418.00/2,000		
TC74LCX573FTFCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.74	.52	.45
TC74LCX573FTFTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	418.00/2,000		
TC74LCX574FTFCT-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	.74	.52	.45
TC74LCX574FTFTR-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	418.00/2,000		
TC74LCX574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.88	.71	.62
TC74LCX16240AFTTR-ND	Inverting 16-Bit Bus Buffer, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16244ELFCT-ND	16-Bit Bus Buffer, Tri-State*	48-TSSOP	1.77	1.40	1.26
TC74LCX16244ELFTR-ND	16-Bit Bus Buffer, Tri-State*	48-TSSOP	699.00/1,000		
TC74LCX16245AFTFCT-ND	16-Bit Bus Transceiver, Tri-State*	48-TSSOP	1.77	1.40	1.26
TC74LCX16245AFTFTR-ND	16-Bit Bus Transceiver, Tri-State*	48-TSSOP	699.00/1,000		
TC74LCX16373AFTTR-ND	16-Bit D-Type Latch, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16373AFTFCT-ND	16-Bit D-Type Latch, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16374AFTTR-ND	16-Bit D-Type Flip-Flop, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16374AFTFCT-ND	16-Bit D-Type Flip-Flop, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16374AFTFTR-ND	16-Bit D-Type Flip-Flop, Tri-State*	48-TSSOP	699.00/1,000		

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74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74LVX02FTFCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.43	.35	.26
TC74LVX02FTFTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	284.00/2,000		
TC74LVX04FN-ND	Hex Inverter	14-SOL	.43	.35	.26
TC74LVX04FTFCT-ND	Hex Inverter*	14-TSSOP	.43	.35	.26

* *RoHS Compliant*

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(Continued)

TOSHIBA Leading Innovation »» Digi-Reel® *(Cont.)*

74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LVX04FTFTR-ND	Hex Inverter*	14-TSSOP	284.00/2,000		
TC74LVX08FTFCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.62	.41	.34
TC74LVX08FTFTR-ND	Quad 2-Input AND Gate*	14-TSSOP	284.00/2,000		
TC74LVX14FTFCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.53	.42	.32
TC74LVX14FTFTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	326.00/2,000		
TC74LVX32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.56	.37	.31
TC74LVX32FTFCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.43	.35	.26
TC74LVX86FTMCT-ND	Quad Exclusive OR Gate*	14-TSSOP	.58	.41	.35
TC74LVX125FTFCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.75	.53	.46
TC74LVX125FTFTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	424.00/2,000		
TC74LVX138FTFCT-ND	3-to-8 Line Decoder*	16-TSSOP	.52	.39	.30
TC74LVX157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.66	.49	.42
TC74LVX174FNF-ND	Hex D-Type Flip-Flop with Clear*	16-SOL	.84	.66	.57
TC74LVX244FTFCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.75	.59	.52
TC74LVX244FTFTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	496.00/2,000		
TC74LVX245FTFCT-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	.68	.52	.39
TC74LVX245FTFTR-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	496.00/2,000		
TC74LVX373FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.75	.59	.52
TC74LVX373FTMTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	496.00/2,000		
TC74LVX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.68	.53	.47
TC74LVX374FW-ND	Octal D-Type Flip-Flop	20-SOL	.68	.53	.47
TC74LVX4245FSFCT-ND	Dual Supply Octal Bus Transceiver*	24-TSSOP	2.00	1.55	1.41
TC74LVX4245FSFTR-ND	Dual Supply Octal Bus Transceiver*	24-TSSOP	1544.00/2,000		

TOSHIBA Leading Innovation »» Digi-Reel®

74VHC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74VHC00FNM-ND	Quad 2-Input NAND Gate*	14-SOL	.56	.37	.31
TC74VHC00FTMCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.55	.37	.30
TC74VHC00FTMTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	250.00/2,000		
TC74VHC02FNF-ND	Quad 2-Input NOR Gate*	14-SOL	.56	.37	.31
TC74VHC02FTMCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.57	.38	.31
TC74VHC02FTMTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	258.00/2,000		
TC74VHC04FNTR-ND	Hex Inverter	14-SOL	355.00/2,500		
TC74VHC08FTMCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.55	.37	.30
TC74VHC08FTMTR-ND	Quad 2-Input AND Gate*	14-TSSOP	250.00/2,000		
TC74VHC10FNF-ND	Triple 3-Input NAND Gate*	14-SOL	.48	.35	.30
TC74VHC11FTMCT-ND	Triple 3-Input AND Gate*	14-TSSOP	.51	.41	.31
TC74VHC11FTMTR-ND	Triple 3-Input AND Gate*	14-TSSOP	314.00/2,000		
TC74VHC14FTMCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.53	.35	.29
TC74VHC14FTMTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	240.00/2,000		
TC74VHC21FNMF-ND	Dual 4-Input AND Gate*	14-SOL	.67	.49	.42
TC74VHC21FTMCT-ND	Dual 4-Input AND Gate*	14-TSSOP	.51	.41	.31
TC74VHC21FTMTR-ND	Dual 4-Input AND Gate*	14-TSSOP	314.00/2,000		
TC74VHC32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.56	.37	.31
TC74VHC32FTMCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.55	.37	.30
TC74VHC32FTMTR-ND	Quad 2-Input OR Gate*	14-TSSOP	250.00/2,000		
TC74VHC74FNF-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOL	.50	.37	.32
TC74VHC74FTMCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.55	.37	.30
TC74VHC74FTMTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	250.00/2,000		
TC74VHC86FTMCT-ND	Quad Exclusive OR Gate*	14-TSSOP	.51	.36	.31
TC74VHC86FTMTR-ND	Quad Exclusive OR Gate*	14-TSSOP	288.00/2,000		
TC74VHC125FNF-ND	Quad Bus Buffer, Tri-State*	14-SOL	.53	.39	.34
TC74VHC125FNMCT-ND	Quad Bus Buffer, Tri-State*	14-SOL	.72	.51	.43
TC74VHC125FNMTR-ND	Quad Bus Buffer, Tri-State*	14-SOL	505.00/2,500		
TC74VHC125FTMCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.60	.42	.36
TC74VHC125FTMTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	338.00/2,000		
TC74VHC138FNTR-ND	3-to-8 Line Decoder	16-SOL	505.00/2,500		
TC74VHC138FTMCT-ND	3-to-8 Line Decoder*	16-TSSOP	.61	.43	.37
TC74VHC138FTMTR-ND	3-to-8 Line Decoder*	16-TSSOP	342.00/2,000		
TC74VHC157FNF-ND	Quad 2-Channel Multiplexer*	16-SOL	.65	.48	.42
TC74VHC164FTMCT-ND	8-Bit SIPO Shift Register*	14-TSSOP	.74	.52	.45
TC74VHC164FTMTR-ND	8-Bit SIPO Shift Register*	14-TSSOP	418.00/2,000		
TC74VHC165FNF-ND	8-Bit PISO Shift Register*	16-SOL	.68	.51	.44
TC74VHC165FTMCT-ND	8-Bit PISO Shift Register*	16-TSSOP	.74	.52	.45
TC74VHC165FTMTR-ND	8-Bit PISO Shift Register*	16-TSSOP	416.00/2,000		
TC74VHC174FN-ND	Hex D-Type Flip-Flop with Clear	16-SOL	.65	.48	.42
TC74VHC174FTMCT-ND	Hex D-Type Flip-Flop with Clear*	16-TSSOP	.52	.39	.30
TC74VHC238FNF-ND	3-to-8 Line Decoder*	16-SOL	.68	.51	.44
TC74VHC240FTMCT-ND	Octal Inverting Bus Buffer, Tri-State*	20-TSSOP	.49	.37	.28
TC74VHC240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.71	.53	.45
TC74VHC244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.71	.53	.45
TC74VHC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	226.10/1,000		
TC74VHC299FW-ND	8-Bit PIPO Shift Register	20-SOL	1.58	1.28	1.15
TC74VHC367FNMCT-ND	Hex Bus Buffer, Tri-State*	16-SOL	.84	.65	.57
TC74VHC373FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.56	.40	.34
TC74VHC373FTMTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	316.00/2,000		
TC74VHC393FTMCT-ND	Dual Binary Counter*	14-TSSOP	.94	.73	.65
TC74VHC393FTMTR-ND	Dual Binary Counter*	14-TSSOP	620.00/2,000		
TC74VHC540FTMCT-ND	Inverting Octal Bus Buffer, Tri-State*	20-TSSOP	.74	.52	.45
TC74VHC540FTMTR-ND	Inverting Octal Bus Buffer, Tri-State*	20-TSSOP	418.00/2,000		
TC74VHC541FTMCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.74	.52	.45
TC74VHC541FTMTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	418.00/2,000		
TC74VHC573FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC574FTMCT-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	.74	.52	.45
TC74VHC574FTMTR-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	418.00/2,000		
TC74VHC574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.71	.53	.45
TC74VHC595FTMCT-ND	8-Bit Shift Register/Latch, Tri-State*	16-TSSOP	1.10	.85	.75
TC74VHC595FTMTR-ND	8-Bit Shift Register/Latch, Tri-State*	16-TSSOP	722.00/2,000		
TC74VHC4040FNF-ND	12-Stage Binary Counter*	16-SOL	.64	.50	.44

TOSHIBA Leading Innovation »» Digi-Reel®

LMOS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC4S01FFCT-ND	2-Input NOR Gate*	5-SSOP	.51	.34	.28
TC4S01FFTR-ND	2-Input NOR Gate*	5-SSOP	348.00/3,000		
TC4S66FFCT-ND	Single Analog Switch (4066B)*	SMV-5	.51	.34	.28
TC4S66FFTR-ND	Single Analog Switch (4066B)*	SMV-5	348.00/3,000		
TC4S584FFCT-ND	Single Schmitt Trigger (4584B)*	5-SSOP	.55	.39	.33
TC4S584FFTR-ND	Single Schmitt Trigger (4584B)*	5-SSOP	465.00/3,000		
TC7S00FFCT-ND	Single NAND Gate (74HC00)*	5-SSOP	.48	.28	.23
TC7S00FFTR-ND	Single NAND Gate (74HC00)*	5-SSOP	243.00/3,000		
TC7S02FFCT-ND	Single NOR Gate (74HC02)*	5-SSOP	.48	.28	.23
TC7S02FFTR-ND	Single NOR Gate (74HC02)*	5-SSOP	243.00/3,000		
TC7S04FTFCT-ND	Single Inverter (74HC04)*	5-SSOP	.48	.28	.23
TC7S04FTFTR-ND	Single Inverter (74HC04)*	5-SSOP	243.00/3,000		
TC7S08FFCT-ND	2-Input AND Gate (74HC08)*	5-SSOP	.48	.28	.23
TC7S08FFTR-ND	2-Input AND Gate (74HC08)*	5-SSOP	243.00/3,000		
TC7S14FT5FCT-ND	Schmitt Inverter*	5-SSOP	.48	.28	.23
TC7S14FT5FTR-ND	Schmitt Inverter*	5-SSOP	243.00/3,000		
TC7S32FFCT-ND	2-Input OR Gate (74HC32)*	5-SSOP	.48	.28	.23
TC7S32FFTR-ND	2-Input OR Gate (74HC32)*	5-SSOP	243.00/3,000		
TC7SET00FCT-ND	Single TTL NAND Gate	5-SSOP	.36	.29	.20
TC7SET00FTR-ND	Single TTL NAND Gate	5-SSOP	243.00/3,000		
TC7SET00FUTCT-ND	Single TTL NAND Gate	5-SSOP	.36	.29	.20
TC7SET00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.48	.28	.23
TC7SET00FUTFTR-ND	2-Input NAND Gate*	5-SSOP	243.00/3,000		
TC7SET02FCT-ND	Single TTL NOR Gate	5-SSOP	.36	.29	.20
TC7SET02FTR-ND	Single TTL NOR Gate	5-SSOP	243.00/3,000		
TC7SET04FFCT-ND	Single TTL Inverter Gate*	5-SSOP	.48	.28	.23
TC7SET04FFTR-ND	Single TTL Inverter Gate*	5-SSOP	243.00/3,000		
TC7SET04FUTFCT-ND	Single TTL Inverter Gate*	5-SSOP	.48	.28	.23
TC7SET04FUTFTR-ND	Single TTL Inverter Gate*	5-SSOP	243.00/3,000		
TC7SET08FCT-ND	Single TTL AND Gate	5-SSOP	.36	.29	.20
TC7SET08FFCT-ND	2-Input AND Gate*	5-SSOP	.48	.28	.23
TC7SET08FFTR-ND	2-Input AND Gate*	5-SSOP	243.00/3,000		
TC7SET08FUTFCT-ND	2-Input AND Gate*	5-SSOP	.48	.28	.23
TC7SET08FUTFTR-ND	2-Input AND Gate*	5-SSOP	243.00/3,000		
TC7SET32FCT-ND	Single TTL OR Gate	5-SSOP	.36	.29	.20
TC7SET32FFCT-ND	2-Input OR Gate*	5-SSOP	.48	.28	.23
TC7SET32FFTR-ND	2-Input OR Gate*	5-SSOP	243.00/3,000		
TC7SET32FUTFCT-ND	2-Input OR Gate*	5-SSOP	.48	.28	.23
TC7SET32FUTFTR-ND	2-Input OR Gate*	5-SSOP	243.00/3,000		
TC7SH00FFCT-ND	2-Input NAND Gate*	5-SSOP	.48	.28	.23
TC7SH00FFTR-ND	2-Input NAND Gate*	5-SSOP	243.00/3,000		
TC7SH02FFCT-ND	2-Input NOR Gate*	5-SSOP	.48	.28	.23
TC7SH04FFCT-ND	Single Inverter*	5-SSOP	.48	.28	.23
TC7SH04FFTR-ND	Single Inverter*	5-SSOP	243.00/3,000		
TC7SH32FFCT-ND	2-Input OR Gate*	5-SSOP	.48	.28	.23
TC7SH32FFTR-ND	2-Input OR Gate*	5-SSOP	243.00/3,000		
TC7SH86FFCT-ND	Exclusive OR Gate*	5-SSOP	.48	.28	.23
TC7SH86FFTR-ND	Exclusive OR Gate*	5-SSOP	243.00/3,000		
TC7SL00FUTCT-ND	Single 1 Volt NAND Gate	5-SSOP	.29	.24	.17
TC7SL00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.36	.29	.20
TC7SL04FUTFCT-ND	Single 1 Volt Inverter*	5-SSOP	.36	.29	.20
TC7SL32FUTCT-ND	Single 1 Volt OR Gate	5-SSOP	.36	.29	.20
TC7SU04FFCT-ND	Single Inverter (74HCU04)*	5-SSOP	.48	.28	.23
TC7SU04FFTR-ND	Single Inverter (74HCU04)*	5-SSOP	243.00/3,000		
TC7SZ00FFCT-ND	2-Input NAND Gate*	5-SSOP	.48	.28	.23
TC7SZ00FFTR-ND	2-Input NAND Gate*	5-SSOP	243.00/3,000		
TC7SZ00FUTCT-ND	2-Input NAND Gate	5-SSOP	.31	.25	.17
TC7SZ00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.50	.30	.24
TC7SZ00FUTFTR-ND	2-Input NAND Gate*	5-SSOP	255.00/3,000		
TC7SZ02FTR-ND	2-Input Nor Gate	5-SSOP	253.80/3,000		
TC7SZ04FFCT-ND	Single Inverter Gate*	5-SSOP	.48	.28	.23
TC7SZ04FFTR-ND	Single Inverter Gate*	5-SSOP	243.00/3,000		
TC7SZ04FUTFCT-ND	Single Inverter Gate*	5-SSOP	.50	.30	.24
TC7SZ04FUTFTR-ND	Single Inverter Gate*	5-SSOP	255.00/3,000		
TC7SZ05FUT5LJFTCT-ND	Inverter (Open Drain)*	5-SSOP	.51	.30	.24
TC7SZ05FUT5LJFTTR-ND	Inverter (Open Drain)*	5-SSOP	258.00/3,000		
TC7SZ08FCT-ND	2-Input AND Gate	5-SSOP	.36	.29	.20
TC7SZ08FFCT-ND	2-Input AND Gate*	5-SSOP	.48	.28	.23
TC7SZ08FFTR-ND	2-Input AND Gate*	5-SSOP	243.00/3,000		
TC7SZ08FUTFCT-ND	2-Input AND Gate*	5-SSOP	.56	.32	.24
TC7SZ08FUTFTR-ND	2-Input AND Gate*	5-SSOP	240.00/3,000		
TC7SZ32FCT-ND	2-Input OR Gate	5-SSOP	.32	.25	.18
TC7SZ32FFCT-ND	2-Input OR Gate*	5-SSOP	.56	.32	.24
TC7SZ32FFTR-ND	2-Input OR Gate*	5-SSOP	240.00/3,000		
TC7SZ32FUTCT-ND	2-Input OR Gate	5-SSOP	.36	.29	.20
TC7SZ32FUTFCT-ND	2-Input OR Gate*	5-SSOP	.56	.32	.24
TC7SZ32FUTFTR-ND	2-Input OR Gate*	5-SSOP	240.00/3,000		
TC7SZ125FFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.48	.28	.23
TC7SZ125FFTR-ND	Bus Buffer Tri-State Output*	5-SSOP	243.00/3,000		
TC7SZ125FUTFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.56	.32	.24
TC7SZ125FUTFTR-ND	Bus Buffer Tri-State Output*	5-SSOP	240.00/3,000		
TC7SZ126FUTCT-ND	Bus Buffer Tri-State Output	5-SSOP	.36	.29	.20
TC7SZ126FUTFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.48	.28	.23
TC7SZ126FUTFTR-ND	Bus Buffer Tri-State Output*	5-SSOP	243.00/3,000		
TC7SZU04FFCT-ND	Inverter (Unbuffered)*	5-SSOP	.48	.28	.23
TC7SZU04FFTR-ND	Inverter (Unbuffered)*	5-SSOP	243.00/3,000		

* *RoHS Compliant*

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(Continued)

TOSHIBA
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TC7W SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC7W00FKFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.52	.37	.32
TC7W00FKFTR-ND	Dual 2-Input NAND Gate*	8-SSOP	438.00/3,000		
TC7W00FUTCT-ND	Dual 2-Input NAND Gate	8-SSOP	.45	.36	.27
TC7W00FUTTR-ND	Dual 2-Input Nand Gate	8-SSOP	364.50/3,000		
TC7W00FUTFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.50	.35	.30
TC7W00FUTFTR-ND	Dual 2-Input NAND Gate*	8-SSOP	420.00/3,000		
TC7W02FUTFCT-ND	Dual 2-Input NOR Gate*	8-SSOP	.50	.35	.30
TC7W02FUTFTR-ND	Dual 2-Input NOR Gate*	8-SSOP	420.00/3,000		
TC7W04FFCT-ND	Triple Inverter (74HC04)*	8-SOP	.50	.35	.30
TC7W04FFTR-ND	Triple Inverter (74HC04)*	8-SOP	153.00/1,000		
TC7W04FKFCT-ND	Triple Inverter (74HC04)*	8-SSOP	.52	.37	.32
TC7W04FKFTR-ND	Triple Inverter (74HC04)*	8-SSOP	438.00/3,000		
TC7W04FUTFTR-ND	Triple Inverter (74HC04)*	8-SSOP	420.00/3,000		
TC7W08FFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SOP	.50	.35	.30
TC7W08FFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SOP	153.00/1,000		
TC7W08FKFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	.52	.37	.32
TC7W08FKFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	438.00/3,000		
TC7W08FUTFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	.50	.35	.30
TC7W08FUTFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	420.00/3,000		
TC7W14FKFCT-ND	Schmitt Inverter*	8-SSOP	.52	.37	.32
TC7W14FKFTR-ND	Schmitt Inverter*	8-SSOP	438.00/3,000		
TC7W32FCT-ND	Dual 2-Input OR Gate (74HC32)	8-SOP	.45	.36	.27
TC7W32FFCT-ND	Dual 2-Input OR Gate (74HC32)*	8-SOP	.50	.35	.30
TC7W32FFTR-ND	Dual 2-Input OR Gate (74HC32)*	8-SOP	153.00/1,000		
TC7W32FKCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	8-SSOP	.47	.38	.29
TC7W32FKFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	.47	.38	.29
TC7W32FUTFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	.50	.35	.30
TC7W32FUTFTR-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	420.00/3,000		
TC7W34FKFCT-ND	Triple Non-Inverting Buffer (TC7W34FU)*	8-SSOP	.52	.37	.32
TC7W34FKFTR-ND	Triple Non-Inverting Buffer (TC7W34FU)*	8-SSOP	438.00/3,000		
TC7W53FKFCT-ND	2-Channel Multiplexer/Demultiplexer*	8-SSOP	.52	.37	.32
TC7W53FKFTR-ND	2-Channel Multiplexer/Demultiplexer*	8-SSOP	438.00/3,000		
TC7W66FUTFCT-ND	Dual Bilateral Switch*	8-SSOP	.50	.35	.30
TC7W74FKFCT-ND	D-Type Flip-Flop with Preset and Clear*	8-SSOP	.52	.37	.32
TC7W74FKFTR-ND	D-Type Flip-Flop with Preset and Clear*	8-SSOP	438.00/3,000		
TC7W74FUTFCT-ND	D-Type Flip-Flop*	8-SSOP	.50	.35	.30
TC7W74FUTFTR-ND	D-Type Flip-Flop*	8-SSOP	420.00/3,000		
TC7W125FUTFCT-ND	Dual Bus Buffer	8-SSOP	.50	.35	.30
TC7W125FUTFTR-ND	Dual Bus Buffer	8-SSOP	420.00/3,000		
TC7W125FUTFCT-ND	Dual Bus Buffer*	8-SSOP	.50	.35	.30
TC7W125FUTFTR-ND	Dual Bus Buffer*	8-SSOP	420.00/3,000		
TC7W126FUTFCT-ND	Dual Bus Buffer*	8-SSOP	.50	.35	.30
TC7W126FUTFTR-ND	Dual Bus Buffer*	8-SSOP	420.00/3,000		
TC7WH00FUTCT-ND	Dual 2-Input NAND Gate	8-SSOP	.45	.36	.27
TC7WH00FUTFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.50	.35	.30
TC7WH00FUTFTR-ND	Dual 2-Input NAND Gate*	8-SSOP	420.00/3,000		
TC7WH04FKCT-ND	Triple Inverter	8-SSOP	.47	.38	.29
TC7WH04FKFCT-ND	Triple Inverter*	8-SSOP	.52	.37	.32
TC7WH04FKFTR-ND	Triple Inverter*	8-SSOP	438.00/3,000		
TC7WH04FUTFCT-ND	Triple Inverter*	8-SSOP	.50	.35	.30
TC7WH04FUTFTR-ND	Triple Inverter*	8-SSOP	420.00/3,000		
TC7WH14FUTFCT-ND	Triple Schmitt Inverter*	8-SSOP	.50	.35	.30
TC7WH14FUTFTR-ND	Triple Schmitt Inverter*	8-SSOP	420.00/3,000		
TC7WH32FKFCT-ND	Dual 2-Input OR Gate*	8-SSOP	.52	.37	.32
TC7WH32FUTCT-ND	Dual 2-Input OR Gate	8-SSOP	.45	.36	.27
TC7WH74FKCT-ND	D-Type Flip-Flop with Preset and Clear	US8-8	.47	.38	.29
TC7WH74FKFCT-ND	D-Type Flip-Flop with Preset and Clear*	US8-8	.52	.37	.32
TC7WH74FKFTR-ND	D-Type Flip-Flop with Preset and Clear*	US8-8	438.00/3,000		
TC7WH74FUTFCT-ND	D-Type Flip-Flop with Preset and Clear*	SM8-8	.50	.35	.30
TC7WH74FUTFTR-ND	D-Type Flip-Flop with Preset and Clear*	SM8-8	420.00/3,000		
TC7WH123FKFCT-ND	Monostable Multivibrator*	US8-8	.52	.37	.32
TC7WH123FKFTR-ND	Monostable Multivibrator*	US8-8	438.00/3,000		
TC7WH123FUTFCT-ND	Monostable Multivibrator*	SM8-8	.50	.35	.30
TC7WH123FUTFTR-ND	Monostable Multivibrator*	SM8-8	420.00/3,000		
TC7WH125FKCT-ND	Dual Bus Buffer	US8-8	.47	.38	.29
TC7WH125FKFCT-ND	Dual Bus Buffer*	US8-8	.52	.37	.32
TC7WH125FKFTR-ND	Dual Bus Buffer*	US8-8	438.00/3,000		
TC7WH157FKCT-ND	2-Channel Multiplexer	US8-8	.47	.38	.29
TC7WH157FKTR-ND	2-Channel Multiplexer	US8-8	380.70/3,000		
TC7WH157FKFCT-ND	2-Channel Multiplexer*	US8-8	.52	.37	.32
TC7WH157FUTFCT-ND	2-Channel Multiplexer*	SM8-8	.50	.35	.30
TC7WH157FUTFTR-ND	2-Channel Multiplexer*	SM8-8	420.00/3,000		
TC7WH241FKCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	US8-8	.47	.38	.29
TC7WH241FKFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	US8-8	.52	.37	.32
TC7WH241FKFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	US8-8	438.00/3,000		
TC7WH241FUTFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	SM8-8	.50	.35	.30
TC7WH241FUTFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	SM8-8	420.00/3,000		
TC7WHU04FUTCT-ND	Triple Inverter	8-SSOP	.45	.36	.27
TC7WT125FUTCT-ND	Dual Bus Buffer	SM8-8	.55	.44	.33
TC7WT125FUTFCT-ND	Dual Bus Buffer*	SM8-8	.61	.43	.37
TC7WT125FUTFTR-ND	Dual Bus Buffer*	SM8-8	513.00/3,000		
TC7WU04FFCT-ND	Triple Inverter (74HCU04)*	8-SOP	.50	.35	.30
TC7WU04FFTR-ND	Triple Inverter (74HCU04)*	8-SOP	153.00/1,000		
TC7WU04FKCT-ND	Triple Inverter	8-SSOP	.47	.38	.29
TC7WU04FKFCT-ND	Triple Inverter*	8-SSOP	.52	.37	.32
TC7WU04FKFTR-ND	Triple Inverter*	8-SSOP	438.00/3,000		
TC7WU04FUTCT-ND	Triple Inverter	8-SSOP	.45	.36	.27
TC7WU04FUTFCT-ND	Triple Inverter*	8-SSOP	.50	.35	.30

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4-CHANNEL DARLINGTON SINK DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62064AFG(5,S)-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-SOP	1.92	1.55	1.40
TD62064APG(5,J,S)-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-Dip	1.61	1.29	1.13
TD62064BP1G(5,J)-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output	16-Dip	1.40	1.12	.98

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7-CHANNEL DARLINGTON SINK DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62003AFGCT-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.97	.75	.66
TD62003AFGTR-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-SOP	638.00/2,000		
TD62003APG(5,J,S)-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.64	.50	.43
TD62004AFG(5,S)-ND	6V to 15V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.88	.68	.59

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7-CHANNEL DARLINGTON SINK DRIVERS — *RoHS Compliant* *(Cont.)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62004AFGCT-ND	6V to 15V, PMOS, CMOS, 0.5A @ 50V, Vce Output ***NEW!***	16-SOP	.88	.66	.50
TD62004AFGTR-ND	6V to 15V, PMOS, CMOS, 0.5A @ 50V, Vce Output ***NEW!***	16-SOP	585.20/2,000		
TD62004APG(5,J,S)-ND	6V to 15V, PMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.64	.50	.43
ULN2003AFWG5ELMCT-ND	TTL, 5V, CMOS - 0.5A @ 50V, Vce Output ***NEW!***	16-SOL	.80	.64	.48
ULN2003AFWG5ELMTR-ND	TTL, 5V, CMOS - 0.5A @ 50V, Vce Output ***NEW!***	16-SOL	448.00/2,000		
ULN2003APG-ND	TTL, 5V, CMOS 0.5A @ 50V, Vce Output	16-Dip	.52	.39	.33
ULN2004AFWG-ND	6V to 15V PMOS, CMOS 0.5A @ 50V, Vce Output	16-SOL	.52	.39	.33
ULN2004APG-ND	6V to 15V PMOS, CMOS 0.5A @ 50V, Vce Output	16-Dip	.52	.39	.33

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8-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62083AFG(5S)-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.88	.70	.61
TD62083AFNGCT-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	1.22	.96	.87
TD62083AFNGTR-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	896.00/2,000		
TD62083APG5JS-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.80	.62	.54
TD62084AFG5S-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.96	.74	.65
TD62084AFGCT-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	1.06	.82	.72
TD62084AFGTR-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	384.00/1,000		
TD62084AFNGCT-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	1.41	1.11	1.00
TD62084AFNGTR-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	1036.00/2,000		
TD62084APG(5,J,S)-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.88	.68	.59
ULN2803AFWG(OM)-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output*	18-SOL	.84	.65	.57
ULN2803AFWG5ELMCT-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOL	.84	.63	.48
ULN2803AFWG5ELMTR-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOL	558.60/2,000		
ULN2803APG-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.72	.56	.49
ULN2804AFWG(0M)-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOL	.84	.66	.57
ULN2804APG-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.76	.59	.52

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8-CHANNEL DARLINGTON SOURCE DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62783AFG5S-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	2.02	1.63	1.47
TD62783AFNG5S-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	1.77	1.43	1.29
TD62783APG(5JS)-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	1.71	1.38	1.24

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LED DRIVERS / DC-to-DC

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TB62736FUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.77	.60	.53
TB62736FUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	762.00/3,000		
TB62737FPGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-LLP	.77	.60	.53
TB62737FUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.83	.58	.50
TB62737FUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	654.00/3,000		
TB62752AFUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.84	.65	.57
TB62752AFUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	828.00/3,000		
TB62752BFUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.84	.65	.57
TB62752BFUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	828.00/3,000		
TB62755FPGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-PLP	.84	.65	.57
TCA62723FMGCT-ND	3-Channel Constant-Current LED Driver	10-SON	1.37	1.08	.98
TCA62724FMGCT-ND	3-Channel Constant-Current LED Driver	10-SON	1.22	.96	.87
TCA62724FMGTR-ND	3-Channel Constant-Current LED Driver	10-SON	1344.00/3,000		
TCA62753FUGCT-ND	Charge Pump Type DC/DC Converter for White LED Driver	6-SSOP	.79	.62	.54
TCA62753FUGTR-ND	Charge Pump Type DC/DC Converter for White LED Driver	6-SSOP	783.00/3,000		

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MOTOR DRIVERS / CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TA7267BP5-ND	Full-Bridge Driver, H-Switch, for DC Motor	7-HSIP	2.23	1.80	1.62
TA7291FGCT-ND	4-Mode Bridge Driver with Output Voltage Control	16-HSOP	1.86	1.47	1.33
TA7291FGTR-ND	4-Mode Bridge Driver with Output Voltage Control	16-HSOP	1102.50/1,500		
TA7291P5-ND	4-Mode Bridge Driver with Output Voltage Control	10-HSIP	1.47	1.23	.98
TA7291SG5J-ND	4-Mode Bridge Driver with Output Voltage Control	9-SIP	.90	.75	.60
TA8428FGCT-ND	Full-Bridge Driver for Brush Motor Rotation Control	20-HSOP	3.15	2.58	2.31
TA8428FGTR-ND	Full-Bridge Driver for Brush Motor Rotation Control	20-HSOP	1470.00/1,000		
TA8428KOS-ND	Full-Bridge Driver for Brush Motor Rotation Control	7-HSIP	3.11	2.50	2.28
TA8429HQO-ND	Full-Bridge Driver, H-Switch, for DC Motor	12-HZIP	5.15	4.14	3.78
TB6549FGOELCT-ND	Full-Bridge Driver IC for DC Motors	20-HSOP	4.35	3.56	3.19
TB6549FGOELTR-ND	Full-Bridge Driver IC for DC Motors	20-HSOP	2030.00/1,000		
TB6549HQ-ND	Full-Bridge Driver IC for DC Motors	25-HZIP	4.82	3.87	3.53
TB6549PGO-ND	Full-Bridge Driver IC for DC Motors	16-Dip	5.18	4.16	3.79
TB6552FLGCT-ND	Dual Bridge Driver IC for DC Motors	24-QON	1.63	1.30	.98
TB6552FLGTR-ND	Dual Bridge Driver IC for DC Motors	24-QON	1756.00/2,000		
TB6552FNGOELCT-ND	Dual Bridge Driver IC for DC Motors	16-SSOP	1.86	1.44	1.30
TB6552FNGOELTR-ND	Dual Bridge Driver IC for DC Motors	16-SSOP	1432.00/2,000		
TB6556FGCT-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	3.09	2.53	2.27
TB6556FGTR-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	1442.00/1,000		
TB6559FGCT-ND	Full-Bridge DC Motor Driver	16-HSOP	2.14	1.65	1.50
TB6559FGTR-ND	Full-Bridge DC Motor Driver	16-HSOP	1327.50/1,500		
TB6560AHQO-ND	Stepping Motor Driver	25-HZIP	4.73	3.78	2.94
TB6560AFGO-ND	Stepping Motor Driver	64-HQFP	4.59	3.68	2.86
TB6561FGCT-ND	Dual Full-Bridge Driver	30-SSOP	3.15	2.58	2.31
TB6561FGTR-ND	Dual Full-Bridge Driver	30-SSOP	3192.00/2,000		

* *RoHS Compliant*

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(Continued)

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MOTOR DRIVERS / CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TB6561NG-ND	Dual Full-Bridge Driver	24-SDip	3.92	3.15	2.87
TB6562AFGOELCT-ND	Dual Full-Bridge Driver IC for Stepping Motors	30-SSOP	2.49	1.92	1.74
TB6562AFGOELTR-ND	Dual Full-Bridge Driver IC for Stepping Motors	30-SSOP	1029.50/1,000		
TB6562ANG-ND	Dual Full-Bridge Driver IC for Stepping Motors	24-SDip	3.95	3.18	2.90
TB6571FGCT-ND	30V Brushless DC Motor Controller/Driver	52-QFP	3.01	2.33	2.11
TB6571FGTR-ND	30V Brushless DC Motor Controller/Driver	52-QFP	1084.00/800		
TB6575FNGCT-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	2.66	2.06	1.87
TB6575FNGTR-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	2052.00/2,000		
TB6582FGOELCT-ND	3-Phase Full-Wave Brushless Motor Cont. ***NEW!***	52-QFP	2.63	2.11	1.64
TB6582FGOELTR-ND	3-Phase Full-Wave Brushless Motor Cont. ***NEW!***	52-QFP	1216.80/800		
TB6586FGCT-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	1.93	1.49	1.35
TB6588FGOELJUCT-ND	3-Phase Full-Wave Brushless Motor Controller	36-HSOP	4.74	3.88	3.48
TB6588FGOELJUTR-ND	3-Phase Full-Wave Brushless Motor Controller	36-HSOP	2212.00/1,000		
TB6593FNGCT-ND	Driver IC for DC Motor	20-SSOP	2.28	1.76	1.60
TB6593FNGTR-ND	Driver IC for DC Motor	20-SSOP	1756.00/2,000		
TB6596FLGCT-ND	DC Motor Driver, Stepping Motor Driver	36-QON	2.03	1.62	1.22
TB6596FLGTR-ND	DC Motor Driver, Stepping Motor Driver	36-QON	2188.00/2,000		
TB6607FLGCT-ND	DC Motor Driver	36-QON	1.98	1.58	1.19
TB6607FLGTR-ND	DC Motor Driver	36-QON	2134.00/2,000		
TB6608FNGCT-ND	Stepping Motor Driver	20-SSOP	2.70	2.08	1.89
TB6608FNGTR-ND	Stepping Motor Driver	20-SSOP	2080.00/2,000		
TB6612FNGCT-ND	Driver IC for Dual DC Motor	24-SSOP	2.07	1.60	1.45
TB6612FNGTR-ND	Driver IC for Dual DC Motor	24-SSOP	1594.00/2,000		
TB6613FTGCT-ND	DC Motor Driver, Stepping Motor Driver	44-VQON	3.60	2.94	2.64
TB6613FTGTR-ND	DC Motor Driver, Stepping Motor Driver	44-VQON	3192.00/2,000		
TB62206FGCT-ND	BiCD PWM 2-Phase Bipolar Stepping Motor Driver	20-HSOP	3.47	2.68	2.43
TB62206FGTR-ND	BiCD PWM 2-Phase Bipolar Stepping Motor Driver	20-HSOP	1436.00/1,000		
TB62209FGCT-ND	Stepping Motor Dvr. IC using PWM Chopper Type	36-HSOP	4.56	3.73	3.35
TB62209FGTR-ND	Stepping Motor Dvr. IC using PWM Chopper Type	36-HSOP	2254.00/1,000		

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LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Amplifiers				
TC75S54FCT-ND	Single Op Amp	SMV-5	.72	.55	.41
TC75S54FTR-ND	Single Op Amp	SMV-5	786.00/3,000		
TC75W54FUTFCT-ND	Dual Op Amp*	SM8-8	2.83	2.29	1.57
TC75W54FUTFTR-ND	Dual Op Amp*	SM8-8	1827.00/3,000		
TC75W55FUTCT-ND	Dual Op Amp	SM8-8	.90	.76	.61
TC75W55FUTTR-ND	Dual Op Amp	SM8-8	1263.00/3,000		
	Shock Sensor — RoHS Compliant				
TB6066FNGCT-ND	Shock Sensor	16-SSOP	.88	.66	.50

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POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	DC-to-DC Converters				
TB7101FT5L1.2FCT-ND	1.2V, 1A Buck DC-DC Converter	8-SON	1.78	1.43	1.07
TB7101FT5L1.2FTR-ND	1.2V, 1A Buck DC-DC Converter	8-SON	2730.24/3,000		
TB7101FT5L1.5FCT-ND	1.5V, 1A Buck DC-DC Converter	8-SON	1.78	1.43	1.07
TB7101FT5L1.8FCT-ND	1.8V, 1A Buck DC-DC Converter	8-SON	1.78	1.43	1.07
TB7101FT5L2.5FCT-ND	2.5V, 1A Buck DC-DC Converter	8-SON	1.78	1.43	1.07
TB7101FT5L3.3FCT-ND	3.3V, 1A Buck DC-DC Converter	8-SON	1.78	1.43	1.07
TCV7100FTE12LQCT-ND	Adj., 2.5A Sync. DC-DC Converter	8-SOP	2.11	1.69	1.27
TCV7100FTE12LQTR-ND	Adj., 2.5A Sync. DC-DC Converter	8-SOP	3240.96/3,000		
	NEW! Voltage Regulators NEW!				
TA78L05FTE12LFCT-ND	5V, 150mA Voltage Regulator	HSOP-3	.64	.49	.37
TA78L05FTE12LFTR-ND	5V, 150mA Voltage Regulator	HSOP-3	214.13/1,000		

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AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CA3140AEZ-ND	4.5MHz BiMOS Op Amp*	8-Dip	2.01	1.18	.71
CA3140AMZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	2.01	1.18	.71
CA3140MZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	2.07	1.19	.74
CA3240EZ-ND	4.5MHz Dual BiMOS Op Amp*	8-Dip	1.75	1.00	.60
EL2045CSZ-ND	Low Power 100MHz Gain-of-2 Stable Op Amp*	8-SOIC	5.56	3.71	2.57
EL2125CSZ-ND	Low Noise, Low Power, Wideband Amp*	8-SOIC	6.55	4.54	3.15
EL2126CSZ-ND	Low Noise, Low Power, Wideband Amp*	8-SOIC	4.70	2.94	2.02
EL2227CSZ-ND	Dual Low Noise Amp*	8-SOIC	6.42	4.28	2.97
EL2227CYZ-ND	Dual Low Noise Amp*	8-MSOP	6.28	4.35	3.02
EL2228CSZ-ND	Dual Low Noise Amp*	8-SOIC	6.42	4.28	2.97
EL2276CSZ-ND	70MHz/1mA Current Mode Feedback Amp*	14-SOIC	5.77	3.85	2.67
EL2480CS-ND	250MHz Quad Current Feedback Amp	14-SOIC	6.27	4.17	2.90
EL2480CSZ-ND	250MHz Quad Current Feedback Amp*	14-SOIC	6.27	4.17	2.90
EL4340IUZ-ND	500MHz Triple Multiplexer Amp*	24-QSOP	6.78	4.93	3.26
EL4342ILZA-ND	500MHz Triple Multiplexer Amp*	32-QFN	10.70	7.78	5.14
EL4501IU-ND	100MHz Video Front End	24-QSOP	10.70	7.78	5.14
EL4501IUZ-ND	100MHz Video Front End*	24-QSOP	8.93	6.49	4.29
EL4543ILZ-ND	Triple Differential Twisted-Pair Driver*	20-QFN	6.03	4.02	2.79
EL5100ISZ-ND	200MHz Slew Enhanced VFA*	8-SOIC	2.76	1.70	1.07
EL5100IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-6	2.42	1.80	1.33
EL5101IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-5	2.73	1.68	1.43
EL5102ISZ-ND	400MHz Slew Enhanced VFA*	8-SOIC	3.00	1.85	1.20
EL5104ISZ-ND	700MHz Slew Enhanced VFA*	8-SOIC	3.24	2.00	1.30
EL5104IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-6	3.24	2.00	1.72
EL5105IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-5	3.24	2.00	1.72
EL5105IW-T7TR-ND	700MHz Slew Enhanced VFA	SOT-23-5	4320.00/3,000		
EL5105IWZ-T7ACT-ND	700MHz Slew Enhanced VFA*	SOT-23-5	3.71	2.31	1.92
EL5106IS-ND	350MHz Fixed Gain Amp with Enable	8-SOIC	3.30	2.04	1.32
EL5106IW-T7CT-ND	350MHz Fixed Gain Amp with Enable	SOT-23-6	2.64	1.62	1.38
EL5108ISZ-ND	450MHz Fixed Gain Amp with Enable*	8-SOIC	3.06	1.89	1.23
EL5111IWTZ-T7ACT-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	4.79	3.00	2.53
EL5111IWTZ-T7ATR-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	513.00/250		
EL5111IYEZ-ND	60MHz Rail-to-Rail In/Out Op Amp*	8-HMSOP	4.73	2.96	2.03
EL5144CW-T7CT-ND	100MHz Single Supply Rail-to-Rail Amp	SOT-23-5	2.95	1.81	1.54
EL5150IW-T7CT-ND	200MHz Amplifier	SOT-23-6	3.05	2.32	1.77
EL5151IW-T7CT-ND	200MHz Amplifier	SOT-23-5	3.05	2.32	1.77
EL5153IW-T7CT-ND	300MHz Voltage Mode Feedback Amp	SOT-23-5	3.25	2.47	1.89
EL5157IW-T7CT-ND	600MHz Voltage Mode Feedback Amp	SOT-23-5	3.43	2.61	1.99
EL5160ISZ-ND	200MHz Low Power Current Feedback Amp*	8-SOIC	2.18	1.25	.77

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AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EL5160IW-T7CT-ND	200MHz Low Power Current Feedback Amp	SOT-23-6	1.73	1.27	.92
EL5160IWZ-T7CT-ND	200MHz Low Power Current Feedback Amp*	SOT-23-6	1.82	1.04	.84
EL5160IWZ-T7TR-ND	200MHz Low Power Current Feedback Amp*	SOT-23-6	1872.00/3,000		
EL5161IC-T7CT-ND	200MHz Low Power Current Feedback Amp	SC70-5	1.73	1.27	.92
EL5161IW-T7CT-ND	200MHz Low Power Current Feedback Amp	SOT-23-5	1.73	1.27	.92
EL5161IWZ-T7ACT-ND	200MHz Low Power Current Feedback Amp*	SOT-23-5	1.94	1.14	.92
EL5161IWZ-T7ATR-ND	200MHz Low Power Current Feedback Amp*	SOT-23-5	171.00/250		
EL5162ISZ-ND	500MHz Low Power Current Feedback Amp*	8-SOIC	3.18	1.97	1.28
EL5162IWZ-T7ACT-ND	500MHz Low Power Current Feedback Amp*	SOT-23-6	3.51	2.17	1.79
EL5162IWZ-T7ATR-ND	500MHz Low Power Current Feedback Amp*	SOT-23-6	351.00/250		
EL5163IC-T7CT-ND	500MHz Low Power Current Feedback Amp	SC70-5	2.85	2.12	1.57
EL5163IW-T7CT-ND	500MHz Low Power Current Feedback Amp	SOT-23-5	3.30	2.04	1.68
EL5163IW-T7TR-ND	500MHz Low Power Current Feedback Amp	SOT-23-5	3960.00/3,000		
EL5163IWZ-T7ACT-ND	500MHz Low Power Current Feedback Amp*	SOT-23-5	3.51	2.17	1.79
EL5163IWZ-T7ATR-ND	500MHz Low Power Current Feedback Amp*	SOT-23-5	351.00/250		
EL5164ISZ-ND	600MHz Current Feedback Amp*	8-SOIC	3.42	2.11	1.37
EL5164IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-6	2.50	1.90	1.45
EL5164IWZ-T7CT-ND	600MHz Current Feedback Amp*	SOT-23-6	3.42	2.11	1.74
EL5165IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-5	2.50	1.90	1.45
EL5165IWZ-T7ACT-ND	600MHz Current Feedback Amp*	SOT-23-5	3.63	2.25	1.88
EL5165IWZ-T7ATR-ND	600MHz Current Feedback Amp*	SOT-23-5	375.00/250		
EL5166ISZ-ND	1.4GHz Current Feedback Amp*	8-SOIC	3.60	2.24	1.49
EL5166IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-6	3.60	2.24	1.86
EL5166IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-6	372.00/250		
EL5167IC-T7CT-ND	1.4GHz Current Feedback Amp	SC70-5	2.70	2.06	1.57
EL5167ICZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SC70-5	3.94	2.45	2.04
EL5167ICZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SC70-5	408.00/250		
EL5167IW-T7CT-ND	1.4GHz Current Feedback Amp	SOT-23-5	3.77	2.34	1.95
EL5167IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-5	3.07	1.89	1.54
EL5167IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-5	297.00/250		
EL5204IY-ND	700MHz Slew Enhanced VFA	10-MSOP	4.49	3.14	2.09
EL5205IS-ND	700MHz Slew Enhanced VFA	8-SOIC	5.88	3.91	2.72
EL5210CY-ND	30MHz R/R Input/Output Op Amp	8-MSOP	4.06	2.52	1.88
EL5211IYEZ-ND	60MHz R/R Input/Output Op Amp*	8-HMSOP	5.46	3.64	2.52
EL5220CYZ-ND	12MHz R/R Input/Output Op Amp*	8-MSOP	3.89	2.42	1.61
EL5227CRZ-ND	2.5MHz Rail-to-Rail Buffer*	20-TSSOP	4.70	2.94	2.02
EL5228IL-T7CT-ND	VCOM with Dual Gamma Buffer	10-DFN	2.60	1.94	1.43
EL5261ISZ-ND	200MHz Low Power Current Feedback Amp*	8-SOIC	4.23	2.63	1.76
EL5262IYZ-ND	500MHz Low Power Current Feedback Amp*	10-MSOP	5.01	3.19	2.19
EL5263ISZ-ND	500MHz Low Power Current Feedback Amp*	8-SOIC	5.01	3.19	2.19
EL5306IUZ-ND	350MHz Fixed Gain Amp*	16-QSOP	5.41	3.60	2.50
EL5308IUZ-T7CT-ND	450MHz Fixed Gain Amp*	16-QSOP	5.62	3.74	3.17
EL5308IUZ-T7TR-ND	450MHz Fixed Gain Amp*	16-QSOP	2592.00/1,000		
EL5323CRZ-ND	12MHz 10-Channel R/R I/O Buffer*	24-TSSOP	6.24	4.16	2.88
EL5327CRZ-ND	2.5MHz, 10-Channel Rail-to-Rail Buffer*	24-TSSOP	5.09	3.24	2.22
EL5360ISZ-ND	200MHz Low Power Current Feedback Amp*	16-SOIC	4.95	3.15	2.16
EL5362ISZ-T7CT-ND	500MHz Low Power Current Feedback Amp*	16-SOIC	5.75	3.83	3.24
EL5362ISZ-T7TR-ND	500MHz Low Power Current Feedback Amp*	16-SOIC	2652.00/1,000		
EL5362IUZ-T7CT-ND	500MHz Low Power Current Feedback Amp*	16-QSOP	5.75	3.83	3.24
EL5362IUZ-T7TR-ND	500MHz Low Power Current Feedback Amp*	16-QSOP	2652.00/1,000		
EL5364ISZ-ND	600MHz Current Feedback Amp*	16-SOIC	6.40	4.26	2.96
EL5364IUZ-ND	600MHz Current Feedback Amp*	16-QSOP	6.40	4.26	2.96
EL5373IU-ND	450MHz Differential Twisted-Pair Driver	24-QSOP	7.97	5.65	3.99
EL5411IREZ-ND	60MHz R/R Input/Output Op Amp*	14-HTSSOP	4.76	2.98	2.04
EL5411IRZ-ND	60MHz R/R Input/Output Op Amp*	14-TSSOP	4.42	2.85	1.90
EL5420CRZ-ND	12MHz R/R Input/Output Op Amp*	14-TSSOP	4.92	3.14	2.15
EL5420CSZ-ND	12MHz R/R Input/Output Op Amp*	14-SOIC	4.92	3.14	2.15
EL5423CLZ-ND	12MHz, 12-Channel R/R I/O Buffer*	32-QFN	6.55	4.54	3.15
EL5427CLZ-ND	2.5MHz, 12-Channel Rail-to-Rail Buffer*	32-QFN	5.14	3.28	2.25
EL5427CRZ-ND	2.5MHz, 12-Channel Rail-to-Rail Buffer*	28-TSSOP	5.14	3.28	2.25
EL5451IS-ND	200MHz Amp	14-SOIC	7.54	5.28	3.52
EL5462ISZ-ND	500MHz Low Power Current Feedback Amp*	14-SOIC	4.15	2.58	1.72
EL7640ILTZ-T7CT-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	3.89	2.42	2.01
EL7640ILTZ-T7TR-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	1608.00/1,000		
EL7642ILTZ-T13CT-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	5.06	3.22	2.72
EL7642ILTZ-T13TR-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	5520.00/2,500		
EL8100IW-T7CT-ND	200MHz Rail-to-Rail Amp	SOT-23-6	2.79	2.07	1.53
EL8100IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	3.04	1.87	1.52
EL8100IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	324.00/250		
EL8101IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	3.24	2.00	1.65
EL8101IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	324.00/250		
EL8102IWZ-T7CT-ND	500MHz Rail-to-Rail Amp*	SOT-23-6	3.51	2.18	1.82
EL8103IW-T7CT-ND	500MHz Rail-to-Rail Amp	SOT-23-5	3.86	2.40	2.09
EL8103IWZ-T7ACT-ND	500MHz Rail-to-Rail Amp*	SOT-23-5	3.86	2.40	2.00
EL8170FSZ-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.30
EL8170ISZ-T7CT-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.77
EL8171FSZ-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	2.56	1.52	.96
EL8172FSZ-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.30
EL8172ISZ-T7CT-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.77
EL8173FSZ-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	2.56	1.52	.96
EL8176AIWZ-T7ACT-ND	MPU Single Supply R/R I/O Prec. Op Amp*	SOT-23-6	3.71	2.31	2.09
EL8176BIWZ-T7CT-ND	MPU Single Supply R/R I/O Prec. Op Amp*	SOT-23-6	2.73	1.68	1.50
EL8176FIZ-T7CT-ND	MPU Single Supply R/R I/O Prec. Op Amp*	6-WLCSP	2.57	1.55	1.25
EL8176FIZ-T7TR-ND	MPU Single Supply R/R I/O Prec. Op Amp*	6-WLCSP	2844.00/3,000		
EL8176FWZ-T7ACT-ND	MPU Single Supply R/R I/O Prec. Op Amp*	SOT-23-6	2.44	1.47	1.19
EL8176FWZ-T7ATR-ND	MPU Single Supply R/R I/O Prec. Op Amp*	SOT-23-6	225.00/250		
EL8186IWZ-T7ACT-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	2.01	1.18	1.03
EL8186IWZ-T7ATR-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	199.13/250		
EL8201IS-ND	200MHz Rail-to-Rail Amp	8-SOIC	4.76	2.98	2.04
EL8201ISZ-ND	200MHz Rail-to-Rail Amp*	8-SOIC	4.12	2.56	1.71
EL8203IS-ND	500MHz Rail-to-Rail Amp	8-SOIC	8.11	5.75	4.06
EL8302ISZ-T7CT-ND	500MHz Rail-to-Rail Amp*	16-SOIC	6.28	4.35	3.68
EL8302ISZ-T7TR-ND	500MHz Rail-to-Rail Amp*	16-SOIC	3012.00/1,000		
EL8401IS-ND	200MHz Rail-to-Rail Amp	14-SOIC	12.00	8.40	6.05
EL8401IUZ-T7CT-ND	200MHz Rail-to-Rail Amp*	16-QSOP	8.05	5.48	4.67
HA3-5002-5Z-ND	110MHz, High Slew Rate, High Output Current Buffer Amp*	8-Dip	7.00	4.76	3.36
HA3-5020-5Z-ND	100MHz Current Feedback Video Amp*	8-Dip	5.62	3.74	2.60
HA4600CBZ-ND	480MHz, Video Buffer*	8-SOIC	2.76	1.70	1.07
HA5023IBZ-ND	125MHz Dual Video Current Feedback*	8-SOIC	5.14	3.28	2.25
HA5023IBZ96CT-ND	125MHz Dual Video Current Feedback*	8-SOIC	5.25	3.50	2.96
HA5023IBZ96TR-ND	125MHz Dual Video Current Feedback*	8-SOIC	6060.00/2,500		
HA5023IPZ-ND	125MHz Dual Video Current Feedback*	8-Dip	6.06	4.04	2.80
HA5024IBZ-ND	125MHz Quad Video Current Feedback*	20-SOIC	10.86	7.60	5.48
HA9P4905-5Z-ND	Precision Quad Comparator*	16-SOIC	19.52	13.67	9.84

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(Continued)

intersil DigiReel® *(Cont.)* AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
HA9P5020-5Z-ND	100MHz Current Feedback Video Amp*	8-SOIC	4.18	2.60	1.73
HA9P5127-5Z-ND	8.5MHz, Ultra-Low Noise Prec. Op Amp*	8-SOIC	5.90	3.93	2.73
HA9P5127-5ZX96CT-ND	8.5MHz, Ultra-Low Noise Prec. Op Amp*	8-SOIC	5.90	3.93	3.33
HA9P5127-5ZX96TR-ND	8.5MHz, Ultra-Low Noise Prec. Op Amp*	8-SOIC	6810.00/2,500		
HA9P5320-5Z-ND	2MHz, Prec. Sample and Hold Amp*	16-SOIC	14.12	9.88	7.12
HFA1100IBZ-ND	850MHz Low Distortion Current Feedback Op Amp*	8-SOIC	5.25	3.50	2.43
HFA1105IBZ-ND	330MHz LP, Current Feedback Video Op Amp*	8-SOIC	5.30	3.53	2.45
HFA1110IBZ-ND	750MHz Low Distortion Closed Loop Buffer*	8-SOIC	6.25	4.33	3.00
HFA1112IBZ-ND	850MHz Low Distortion Programmable Gain Buffer Amp*	8-SOIC	6.30	4.36	3.03
HFA1112IPZ-ND	850MHz Low Distortion Programmable Gain Buffer Amp*	8-PDIP	6.78	4.69	3.26
HFA1130IBZ-ND	850MHz Output Limiting, Low Distortion Current Feedback Op Amp*	8-SOIC	6.30	4.36	3.03
HFA1135IBZ-ND	360MHz LP Output Limiting Video Op Amp*	8-SOIC	5.75	3.83	2.66
HFA1145IBZ-ND	330MHz LP, Current Feedback Video Op Amp*	8-SOIC	7.00	4.76	3.36
HFA1412IBZ-ND	350MHz LP Programmable Gain Buffer Amp*	14-SOIC	20.43	14.30	10.30
ICL7611DCPAZ-ND	1.4MHz Low Power CMOS Op Amp*	8-Dip	1.89	1.08	.65
ISL4089IBZ-ND	DC-Restored Video Amp*	8-SOIC	8.28	6.02	3.98
ISL4089IBZ-T7CT-ND	DC-Restored Video Amp*	8-SOIC	8.28	6.02	5.00
ISL4089IBZ-T7TR-ND	DC-Restored Video Amp*	8-SOIC	3972.00/1,000		
ISL28133FHZ-T7CT-ND	400KHz Single Micropower, R/R I/O Op Amp* ***NEW!***	SOT-23-5	2.76	1.70	1.38
ISL28133FHZ-T7TR-ND	400KHz Single Micropower, R/R I/O Op Amp* ***NEW!***	SOT-23-5	3204.00/3,000		
ISL28136FHZ-T7ACT-ND	5MHz Single Precision Rail-to-Rail I/O Op Amp*	SOT-23-6	3.07	1.89	1.54
ISL28136FHZ-T7ATR-ND	5MHz Single Precision Rail-to-Rail I/O Op Amp*	SOT-23-6	297.00/250		
ISL28138FHZ-T7ACT-ND	4.5MHz Single Prec. Rail-to-Rail I/O Op Amp*	SOT-23-6	2.73	1.68	1.37
ISL28138FHZ-T7ATR-ND	4.5MHz Single Prec. Rail-to-Rail I/O Op Amp*	SOT-23-6	264.00/250		
ISL28146FHZ-T7ACT-ND	5MHz Single Precision R/R I/O Op Amp*	SOT-23-6	2.44	1.47	1.19
ISL28146FHZ-T7ATR-ND	5MHz Single Precision R/R I/O Op Amp*	SOT-23-6	225.00/250		
ISL28148FHZ-T7ACT-ND	4.5MHz Single Prec. R/R I/O Op Amp*	SOT-23-6	1.94	1.14	.92
ISL28148FHZ-T7ATR-ND	4.5MHz Single Prec. R/R I/O Op Amp*	SOT-23-6	171.00/250		
ISL28156FBZ-T7CT-ND	39μA Micropower Single Prec. R/R I/O*	8-SOIC	2.79	1.71	1.40
ISL28156FBZ-T7TR-ND	39μA Micropower Single Prec. R/R I/O*	8-SOIC	1080.00/1,000		
ISL28156FHZ-T7CT-ND	39μA Micropower Single Prec. R/R I/O Op Amp*	SOT-23-6	2.24	1.33	1.08
ISL28156FHZ-T7TR-ND	39μA Micropower Single Prec. R/R I/O Op Amp*	SOT-23-6	2448.00/3,000		
ISL28158FBZ-T7CT-ND	34μA Micropower Single Prec. R/R I/O*	8-SOIC	2.56	1.52	1.24
ISL28158FBZ-T7TR-ND	34μA Micropower Single Prec. R/R I/O*	8-SOIC	960.00/1,000		
ISL28158FHZ-T7ACT-ND	34μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	2.28	1.35	1.09
ISL28158FHZ-T7ATR-ND	34μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	207.00/250		
ISL28166FHZ-T7CT-ND	39μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	2.01	1.18	.95
ISL28166FHZ-T7TR-ND	39μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	2124.00/3,000		
ISL28168FHZ-T7ACT-ND	34μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	1.94	1.14	.92
ISL28168FHZ-T7ATR-ND	34μA MPU Single Prec. R/R I/O Op Amp*	SOT-23-6	171.00/250		
ISL28190FHZ-T7CT-ND	Single Supply, Ultra-Low Noise, R/R Out Amp*	SOT-23-6	4.12	2.56	2.13
ISL28190FHZ-T7TR-ND	Single Supply, Ultra-Low Noise, R/R Out Amp*	SOT-23-6	5112.00/3,000		
ISL28190FRUZ-T7CT-ND	Single Supply, Ultra-Low Noise, Ultra-Low Distortion, Rail-to-Rail Output Op Amp*	6-μTDFN	4.12	2.56	2.13
ISL28190FRUZ-T7TR-ND	Single Supply, Ultra-Low Noise, Ultra-Low R/R Distortion, R/R Output Op Amp*	6-μTDFN	5112.00/3,000		
ISL28191FHZ-T7CT-ND	Single Supply, Ultra-Low Noise, R/R Out Amp*	SOT-23-6	3.57	2.21	1.82
ISL28191FHZ-T7TR-ND	Single Supply, Ultra-Low Noise, R/R Out Amp*	SOT-23-6	4284.00/3,000		
ISL28191FRUZ-T7CT-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op-Amp*	6-μTDFN	3.57	2.21	1.82
ISL28191FRUZ-T7TR-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op-Amp*	6-μTDFN	4284.00/3,000		
ISL28194FHZ-T7CT-ND	Ultra-Small, 330nA Single Supply Rail-to-Rail I/O Op Amp*	SOT-23-6	2.31	1.39	1.12
ISL28194FHZ-T7TR-ND	Ultra-Small, 330nA Single Supply Rail-to-Rail I/O Op Amp*	SOT-23-6	2556.00/3,000		
ISL28195FHZ-T7CT-ND	Ultra-Small, 1μA Single Supply R/R I/O Op Amp*	SOT-23-6	2.18	1.29	1.04
ISL28195FHZ-T7TR-ND	Ultra-Small, 1μA Single Supply R/R I/O Op Amp*	SOT-23-6	2376.00/3,000		
ISL28196FHZ-T7CT-ND	Ultra-Small, 2.5μA Single Supply Rail-to-Rail I/O Comparator*	SOT-23-6	2.18	1.29	1.04
ISL28196FHZ-T7TR-ND	Ultra-Small, 2.5μA Single Supply Rail-to-Rail I/O Comparator*	SOT-23-6	2376.00/3,000		
ISL28197FHZ-T7CT-ND	Ultra-Small, 800nA Single Supply Rail-to-Rail I/O Comparator*	SOT-23-6	2.31	1.39	1.12
ISL28197FHZ-T7TR-ND	Ultra-Small, 800nA Single Supply Rail-to-Rail I/O Comparator*	SOT-23-6	2556.00/3,000		
ISL28246FBZ-ND	Dual Low Power R/R I/O Op Amp*	8-SOIC	2.70	1.66	1.05
ISL28246FUZ-ND	Dual Low Power R/R I/O Op Amp*	8-MSOP	2.70	1.66	1.05
ISL28248FBZ-ND	Dual Low Power R/R I/O Op Amp*	8-SOIC	2.44	1.47	.90
ISL28248FUZ-ND	Dual Low Power R/R I/O Op Amp*	8-MSOP	2.44	1.47	.90
ISL28268FBZ-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-SOIC	2.79	1.71	1.08
ISL28268FUZ-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-MSOP	2.79	1.71	1.08
ISL28270IAZ-T13CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	4.65	2.91	2.45
ISL28270IAZ-T13TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	4980.00/2,500		
ISL28271FAZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	4.65	2.91	2.45
ISL28271FAZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	1992.00/1,000		
ISL28272FAZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	4.65	2.91	2.45
ISL28272FAZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	1992.00/1,000		
ISL28273FAZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	4.65	2.91	2.45
ISL28273FAZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	1992.00/1,000		
ISL28274FAZ-T7CT-ND	MPU Single Supply R/R I/O Op Amp*	16-QSOP	4.65	2.91	2.45
ISL28274FAZ-T7TR-ND	MPU Single Supply R/R I/O Op Amp*	16-QSOP	1992.00/1,000		
ISL28276FBZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-SOIC	3.42	2.11	1.74
ISL28276FBZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-SOIC	1368.00/1,000		
ISL28276IAZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	3.71	2.31	1.92
ISL28276IAZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	1536.00/1,000		
ISL28276FBZ-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-SOIC	3.42	2.11	1.37
ISL28278FAZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	3.71	2.31	1.92
ISL28278FAZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	1536.00/1,000		
ISL28278FAZ-ND	Dual MPU Single Supply R/R I/O Op Amp*	16-QSOP	3.71	2.31	1.54
ISL28286FUZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	10-MSOP	2.67	1.64	1.34
ISL28288FBZ-ND	Dual MPU Single Supply R/R I/O Op Amp*	8-SOIC	2.59	1.54	.98
ISL28288FUZ-T7CT-ND	Dual MPU Single Supply R/R I/O Op Amp*	10-MSOP	2.59	1.54	1.26
ISL28288FUZ-T7TR-ND	Dual MPU Single Supply R/R I/O Op Amp*	10-MSOP	1458.00/1,500		
ISL28290FBZ-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output Op Amp*	8-SOIC	6.11	4.07	2.82
ISL28290FRUZ-T7CT-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output Op Amp*	10-μTDFN	6.11	4.07	3.45
ISL28290FUZ-T7CT-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output, Op Amp*	10-MSOP	6.11	4.07	3.45
ISL28290FUZ-T7TR-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output, Op Amp*	10-MSOP	4230.00/1,500		
ISL28290FUZ-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, Rail-to-Rail Output, Op Amp*	10-MSOP	6.11	4.07	2.82
ISL28291FBZ-ND	Dual, Single Supply Ultra Low Noise, Ultra Low Distortion, R/R Output Op Amp*	8-SOIC	5.56	3.71	2.57
ISL28291FRUZ-T7CT-ND	Dual, Single Supply Ultra Low Noise, Ultra Low Distortion, R/R Output Op Amp*	10-μTDFN	5.56	3.71	3.14
ISL28291FRUZ-T7TR-ND	Dual, Single Supply Ultra Low Noise, Ultra Low Distortion, R/R Output Op Amp*	10-μTDFN	7704.00/3,000		
ISL28291FUZ-T7CT-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output, Op Amp*	10-MSOP	5.56	3.71	3.14
ISL28291FUZ-T7TR-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, R/R Output, Op Amp*	10-MSOP	3852.00/1,500		
ISL28291FUZ-ND	Dual, Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp*	10-MSOP	5.56	3.71	2.57
ISL28470FAZ-T7CT-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	28-QSOP	5.46	3.64	3.08
ISL28470FAZ-T7TR-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	28-QSOP	2520.00/1,000		
ISL28470FAZ-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Amp*	28-QSOP	5.46	3.64	2.52
ISL28474FAZ-T7CT-ND	Micropower Single Supply R/R I/O Op Amp*	24-QSOP	5.46	3.64	3.08
ISL28474FAZ-T7TR-ND	Micropower Single Supply R/R I/O Op Amp*	24-QSOP	2520.00/1,000		
ISL28476FAZ-T7CT-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	4.26	2.74	2.28
ISL28476FAZ-T7TR-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	1824.00/1,000		
ISL28478FAZ-T7CT-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	4.26	2.74	2.28
ISL28478FAZ-T7TR-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	1824.00/1,000		
ISL28486FAZ-T7CT-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	3.71	2.31	1.92
ISL28486FAZ-T7TR-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	1536.00/1,000		
ISL28488FAZ-T7CT-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	3.27	2.02	1.67
ISL28488FAZ-T7TR-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Op Amp*	16-QSOP	1308.00/1,000		
ISL28488FVZ-ND	Quad Channel Single Supply, Micropower, Rail-to-Rail Op Amp *	14-TSSOP	3.27	2.02	1.31
ISL55001IBZ-T7CT-ND	220MHz Unity-Gain Op Amp*	8-SOIC	5.24	3.40	2.87
ISL55001IBZ-T7TR-ND	220MHz Unity-Gain Op Amp*	8-SOIC	2328.00/1,000		
ISL55002IBZ-T7CT-ND	200MHz Unity-Gain Op Amp*	8-SOIC	5.80	3.86	3.27
ISL55002IBZ-T7TR-ND	200MHz Unity-Gain Op Amp*	8-SOIC	2676.00/1,000		
ISL55016IRTZ-T7CT-ND	3GHz Bipolar Differential Amplifier*	6-TDFN	3.48	2.16	1.80
ISL55016IRTZ-T7TR-ND	3GHz Bipolar Differential Amplifier*	6-TDFN	1440.00/1,000		
ISL59112IEZ-T7CT-ND	40MHz Rail-to-Rail Video Buffer*	SC70-6	4.73	2.96	2.50
ISL59112IEZ-T7TR-ND	40MHz Rail-to-Rail Video Buffer*	SC70-6	6084.00/3,000		
ISL59311IRZ-ND	Triple Differential Video Amp*	32-QFN	6.19	4.12	2.86
ISL59420IUZ-T7CT-ND	400MHz Multiplexing Amp*	10-MSOP	4.84	3.03	2.56
ISL59420IUZ-T7TR-ND	400MHz Multiplexing Amp*	10-MSOP	3114.00/1,500		
ISL59440IAZ-ND	400MHz Multiplexing Amp*	16-QSOP	6.14	4.09	2.84
ISL59444IBZ-ND	1GHz Multiplexing Amplifier*	16-SOIC	8.90	6.13	4.46
ISL59445IRZ-ND	1GHz Triple Multiplexing Amp*	32-QFN	11.14	7.80	5.62
ISL59446IRZ-ND	500MHz Triple 4:1 Multiplexing Amp*	32-QFN	10.70	7.78	5.14
ISL59446IRZ-T7CT-ND	500MHz Triple 4:1 Multiplexing Amp*	32-QFN	10.70	7.78	6.46
ISL59446IRZ-T7TR-ND	500MHz Triple 4:1 Multiplexing Amp*	32-QFN	5136.00/1,000		
ISL59448IAZ-ND	500MHz, Triple 2:1 Multiplexing Amp*	24-QSOP	6.78	4.93	3.26
ISL59481IRZ-ND	Dual, 500MHz Triple Multiplexing Amp*	48-QFN	17.75	12.91	8.52
ISL59482IRZ-ND	Dual, 500MHz Triple Multiplexing Amp*	48-QFN	17.75	12.91	8.52
ISL59483IRZ-ND	Dual, 500MHz Triple Multiplexing Amp*	48-QFN	17.75	12.91	8.52

intersil DigiReel® *NEW!* COMMUNICATIONS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL36111DRZ-T7CT-ND	11.1GBPS Settable Single Receive-Side Equalizer	16-QFN	13.23	9.62	7.99
ISL36111DRZ-T7TR-ND	11.1GBPS Settable Single Receive-Side Equalizer	16-QFN	6348.00/1,000		
ISL36411DRZ-T7-CT-ND	11.3GBPS Settable Quad Receive-Side Equalizer	46-QFN	33.08	24.05	19.97
ISL36411DRZ-T7-TR-ND	11.3GBPS Settable Quad Receive-Side Equalizer	46-QFN	15876.00/1,000		
QHX220IQT7-CT-ND	Active Isolation Enh. and Interference Canceller	16-QFN	4.03	2.51	2.09
QHX220IQT7-TR-ND	Active Isolation Enh. and Interference Canceller	16-QFN	1668.00/1,000		
QLX4270RIQT7-CT-ND	2.7GBPS Settable Quad Receive-Side Equalizer	46-QFN	6.45	4.69	3.90
QLX4270RIQT7-TR-ND	2.7GBPS Settable Quad Receive-Side Equalizer	46-QFN	3096.00/1,000		
QLX4300SIQT7-CT-ND	3.125GBPS Settable Quad Receive-Side Equalizer	46-QFN	16.53	12.03	9.98
QLX4300SIQT7-TR-ND	3.125GBPS Settable Quad Receive-Side Equalizer	46-QFN	7932.00/1,000		
QLX4600LIQT7-CT-ND	6.25GBPS Settable Quad Receive-Side Equalizer	46-QFN	19.85	14.44	11.99
QLX4600LIQT7-TR-ND	6.25GBPS Settable Quad Receive-Side Equalizer	46-QFN	9528.00/1,000		
QLX4600SIQT7-CT-ND	6.25GBPS Settable Quad Receive-Side Equalizer	46-QFN	19.85	14.44	11.99
QLX4600SIQT7-TR-ND	6.25GBPS Settable Quad Receive-Side Equalizer	46-QFN	9528.00/1,000		

intersil DigiReel® CPU SUPERVISORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL88706IP831Z-ND	Supervisor with Watchdog Timer*	8-PDip	3.09	1.91	1.24
ISL88708IB831Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	3.09	1.91	1.58
ISL88708IP831Z-ND	Supervisor with Watchdog Timer*	8-PDip	3.09	1.91	1.24
ISL88813IP846Z-ND	Supervisor with Watchdog Timer*	8-PDip	3.09	1.91	1.24
X4043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-Dip	6.08	4.05	2.81
X4043M8IZ-2.7AT1CT-ND	2.7-5.5V CPU Supervisor with WDT, 4K-Bit EEPROM*	8-MSOP	6.29	4.19	3.55
X4043M8IZ-2.7AT1TR-ND	2.7-5.5V CPU Supervisor with WDT, 4K-Bit EEPROM*	8-MSOP	7260.00/2,500		
X4043M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-MSOP	6.08	4.05	2.81
X4045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.29	3.43	2.35
X4323S8-ND	4.25-4.5V CPU Supervisor w/ WDT, 32K I^2C EE, Reset Low	8-SOIC	4.54	3.17	2.75
X4323S8I-ND	4.25-4.5V CPU Supervisor w/ WDT, 32K I^2C EE, Reset Low	8-SOIC	4.92	3.44	2.98
X5083S8I-ND	4.25-4.5V CPU Supervisor w/ WDT, 8K SPI EE, Reset Low	8-SOIC	5.28	3.52	2.44

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

intersil DigiReel® *(Cont.)* CPU SUPERVISORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X5163S8-ND	4.25-4.5V CPU Supervisor w/ WDT, 16K SPI EE, Reset Low	8-SOIC	6.37	4.24	2.94
X5323S8IZ-2.7A-ND	2.7-5.5V CPU Supervisor w/ WDT, 32K SPI EE, Reset Low*	8-SOIC	5.93	3.95	2.74
X5323S8IZ-2.7T1CT-ND	2.7-5.5V CPU Supervisor w/ WDT, 32K SPI EE Reset Low*	8-SOIC	8.55	6.22	5.17
X5323S8IZ-2.7T1TR-ND	2.7-5.5V CPU Supervisor w/ WDT, 32K SPI EE Reset Low*	8-SOIC	10260.00/2,500		
X5323S8IZT1CT-ND	4.5-5.5V CPU Supervisor w/ WDT, 32K SPI EE Reset Low*	8-SOIC	5.93	3.95	3.35
X5323S8IZT1TR-ND	4.5-5.5V CPU Supervisor w/ WDT, 32K SPI EE Reset Low*	8-SOIC	6840.00/2,500		
X5323S8Z-2.7A-ND	2.7-5.5V CPU Supervisor w/ WDT, 32K SPI EE Reset Low*	8-SOIC	5.72	3.81	2.64
X5645P-ND	4.25-4.5V CPU Supervisor w/ WDT, 64K SPI EE, Reset High	8-Dip	5.27	3.68	3.19
X5645S14-ND	4.25-4.5V CPU Supervisor w/ WDT, 64K SPI EE, Reset High	14-SOIC	5.27	3.68	3.19

intersil DigiReel® CLOCKS, TIMERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CDP68HC68T1E-ND	CMOS Serial Real-Time Clock	16-Dip	12.24	8.57	6.17
CDP68HC68T1EZ-ND	CMOS Serial Real-Time Clock*	16-Dip	9.07	6.24	4.54
CDP68HC68T1M2-ND	CMOS Serial Real-Time Clock	16-SOIC	12.33	8.63	6.22
CP82C54-ND	8MHz, CMOS Programmable Interval Timer	24-PDip	7.94	5.63	3.98
CP82C54Z-ND	8MHz, CMOS Programmable Interval Timer*	24-PDip	6.34	4.23	2.93
CP82C54-10-ND	10MHz, CMOS Programmable Interval Timer	24-Dip	9.67	6.57	4.84
CP82C54-10Z-ND	10MHz, CMOS Programmable Interval Timer*	24-PDip	7.43	5.05	3.57
CP82C54-12Z-ND	12MHz, CMOS Programmable Interval Timer*	24-Dip	10.44	7.41	5.45
CP82C55A-ND	8MHz, CMOS Programmable Peripheral Interface	40-Dip	7.68	5.22	3.69
CP82C55AZ-ND	8MHz, CMOS Programmable Peripheral Interface*	40-Dip	5.88	3.91	2.72
CS82C54-ND	8MHz, CMOS Programmable Interval Timer	28-PLCC	9.07	6.24	4.54
CS82C54Z-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	6.90	4.78	3.32
CS82C54-10-ND	10MHz, CMOS Programmable Interval Timer	28-PLCC	10.71	7.50	5.40
CS82C54-10Z96CT-ND	10MHz, CMOS Programmable Interval Timer*	28-PLCC	8.40	5.95	5.08
CS82C54-10Z96TR-ND	10MHz, CMOS Programmable Interval Timer*	28-PLCC	3150.00/750		
CS82C54Z96CT-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	7.03	4.78	4.08
CS82C54Z96TR-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	2529.00/750		
CS82C55A-ND	8MHz, CMOS Programmable Peripheral Interface	44-PLCC	8.93	6.14	4.47
CQ82C55AZ-ND	8MHz, CMOS Programmable Peripheral Interface*	44-MQFP	7.92	5.61	3.96
CS82C59A-ND	8MHz, CMOS Priority Interrupt Controller	28-PLCC	9.26	6.37	4.64
CS82C59AZ-ND	8MHz, CMOS Priority Interrupt Controller*	28-PLCC	7.05	4.80	3.39
ICM7555CBAZ-ND	General Purpose Timer*	8-SOIC	.86	.44	.23
ICM7555IPAZ-ND	General Purpose Timer*	8-Dip	.95	.50	.27
ICM7556IPDZ-ND	General Purpose Timer*	14-Dip	1.55	.84	.51

intersil DigiReel® DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Analog-Digital					
HI3-574AJN-5Z-ND	Complete 12-Bit ADC*	28-PDip	41.76	29.23	21.05
HI3-574AKN-5Z-ND	Complete 12-Bit ADC*	28-PDip	32.57	22.80	16.42
HI5714/4CBZ-ND	8-Bit, 40MSPS ADC*	24-SOIC	12.86	9.00	6.48
HI5766KCBZ-ND	10-Bit, 60MSPS ADC*	28-SOIC	32.74	22.92	16.50
HI5812JIPZ-ND	12-Bit, CMOS 20 Microsecond, Sampling ADC*	24-Dip	13.67	9.57	6.89
HI7191IBZ-TCT-ND	24-Bit, High Precision, Sigma Delta ADC*	20-SOIC	23.48	19.57	16.83
ICL7106CM44Z-ND	3.5 Digit LCD Display ADC*	44-MQFP	7.85	5.34	3.77
ICL7106CPLIS-ND	3.5 Digit LCD Display ADC	40-Dip	4.98	3.17	2.18
ICL7106CPLZ-ND	3.5 Digit LCD Display ADC*	40-Dip	4.23	2.72	1.82
ICL7107CM44-ND	3.5 Digit LED Display ADC	44-MQFP	6.37	4.24	2.94
ICL7107CM44Z-ND	3.5 Digit LED Display ADC*	44-MQFP	5.30	3.53	2.45
ICL7107CPLIS-ND	3.5 Digit LED Display ADC	40-Dip	5.18	3.36	2.31
ICL7107CPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	4.48	2.80	1.92
ICL7107RCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	8.05	5.48	3.87
ICL7107SCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	7.94	5.63	3.98
ICL7126CPLZ-ND	3.5 Digit, Low Power, Single Chip ADC*	40-Dip	2.95	1.81	1.14
ICL7135CPIZ-ND	4.5 Digit BCD Output ADC*	28-Dip	5.12	3.26	2.24
ICL7136CM44-ND	3.5 Digit LCD Low Power Display ADC	44-MQFP	7.70	5.24	3.70
ICL7136CPLIS-ND	3.5 Digit LCD Low Power Display ADC	44-Dip	8.10	5.51	3.89
ICL7136CPLZ-ND	3.5 Digit LCD Low Power Display ADC*	40-Dip	6.75	4.68	3.24
KAD2708C-10Q68-ND	8-Bit 105MSPS ADC*	68-QFN	11.77	8.53	6.28
KAD2708L-35Q68-ND	8-Bit 350MSPS ADC*	68-QFN	33.25	25.58	20.46
KAD2710C-10Q68-ND	10-Bit 105MSPS ADC*	68-QFN	14.63	10.64	7.98
KAD2710L-17Q68-ND	10-Bit 70MSPS ADC*	68-QFN	34.73	26.72	21.38
KAD2710L-27Q68-ND	10-Bit 275MSPS ADC*	68-QFN	47.90	37.55	31.07
KAD5512HP-25Q48-ND	12-Bit 250MSPS ADC*	48-QFN	86.86	70.30	60.26
KAD5512HP-25Q72-ND	12-Bit 250MSPS ADC*	72-QFN	86.86	70.30	60.26
KAD5512P-25Q72-ND	12-Bit 250MSPS ADC*	72-QFN	74.81	59.85	51.30
KAD5512P-50Q72-ND	12-Bit 500MSPS ADC*	72-QFN	193.56	160.32	142.50
KAD5514P-25Q48-ND	14-Bit 250MSPS ADC*	48-QFN	143.74	116.26	101.46
KAD5514P-25Q72-ND	14-Bit 250MSPS ADC*	72-QFN	143.74	116.26	101.46
KAD5612P-25Q72-ND	12-Bit 250MSPS ADC*	72-QFN	128.40	105.75	90.64
KDC2708CEVAL-ND	Daughtercard for KAD2708	—	288.00	—	—
KDC2708LEVAL-ND	Daughtercard for KAD2708	—	288.00	—	—
KDC2710CEVAL-ND	Daughtercard for KAD2710	—	288.00	—	—
KDC2710LEVAL-ND	Daughtercard for KAD2710	—	288.00	—	—
KDC5512EVAL-ND	Daughtercard for KAD5512	—	288.00	—	—
KDC5512HEVAL-ND	Daughtercard for KAD5512	—	288.00	—	—
KDC5512H-Q48EVAL-ND	Daughtercard for KAD5512	—	310.00	—	—
KDC5512-Q48EVAL-ND	Daughtercard for KAD5512	—	288.00	—	—
KDC5514EVALZ-ND	Daughtercard for KAD5514	—	280.00	—	—
KDC5514-Q48EVAL-ND	Daughtercard for KAD5514	—	288.00	—	—
KDC5612EVAL-ND	Daughtercard for KAD5612	—	288.00	—	—
KMB001CEVAL-ND	Motherboard for LVCMOS ADC CARD	—	481.25	—	—
Digital-Analog					
HI3338KIBZ-ND	8-Bit CMOS Rail-to-Rail DAC*	16-SOIC	11.43	8.00	5.76
HI5731BIB-ND	12-Bit, 100MSPS High Speed DAC	28-SOIC	36.10	30.08	21.66
HI5741BIB-ND	14-Bit, 100MSPS High Speed DAC	28-SOIC	76.55	53.58	38.58
HI5760IAZ-TCT-ND	10-Bit, 125MSPS High Speed DAC*	28-TSSOP	12.81	8.97	7.72
HI5760/6IBZ-ND	10-Bit, 60MSPS High Speed DAC*	28-SOIC	10.05	7.03	5.07
HI5960IBZ-ND	14-Bit, 130MSPS High Speed DAC*	28-SOIC	19.05	13.33	9.60
ISL76161AVZ-ND	12-Bit, +3.3V, 130MSPS, HS DAC*	28-TSSOP	13.50	9.82	6.48
Voltage Inverters					
ICL7660ACBAZA-TCT-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.76	.98	.79
ICL7660ACBAZA-TTR-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1470.00/2,500		
ICL7660ACPAZ-ND	1.5V-10V CMOS Voltage Converter*	8-Dip	2.18	1.25	.77
ICL7660CBA-ND	1.5V-10V CMOS Voltage Converter	8-SOIC	1.75	1.00	.60

intersil DigiReel® *(Cont.)* DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ICL7660CBAZA-TCT-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.66	.92	.74
ICL7660CBAZA-TTR-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1380.00/2,500		
ICL7660CBAZ-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.55	.84	.51
ICL7660CPA-ND	1.5V-10V CMOS Voltage Converter	8-Dip	1.82	1.04	.63
ICL7660CPAZ-ND	1.5V-10V CMOS Voltage Converter*	8-Dip	1.59	.86	.52
ICL7660SCBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	2.50	1.51	.93
ICL7660SCBAZ-TCT-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.21	1.31	1.06
ICL7660SCPA-ND	1.5V-12V CMOS Voltage Converter	8-Dip	2.67	1.64	1.04
ICL7660SCPAZ-ND	1.5V-12V CMOS Voltage Converter*	8-Dip	2.34	1.41	.87
ICL7660SIBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	2.67	1.64	1.04
ICL7660SIBAZ-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.34	1.41	.87
ICL7660SIBAZTCT-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.41	1.45	1.17
ICL7660SIBAZTTR-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2220.00/2,500		
ICL7660SIPAZ-ND	1.5V-12V CMOS Voltage Converter*	8-Dip	2.54	1.53	.94
ICL7663SACBAZA-ND	CMOS Prog. Micropower Positive Voltage Reg.*	8-SOIC	4.54	2.84	1.95

intersil DCPs FOR LASER DIODE CONTROL OF FIBER OPTIC MODULES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X9521V20I-ND	Dual DCP for Laser Diode Control, 2K I^{2}C EE	20-TSSOP	11.06	7.74	5.16

intersil DigiReel® DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL22313UFU10Z-ND	Single DCP, 50KΩ, 256 Tap, I^{2}C Bus*	10-MSOP	4.15	2.58	1.72
ISL22316UFRT10Z-TKCT-ND	Single DCP, 50KΩ, 128 Tap, I^{2}C Bus*	10-TDFN	2.73	1.68	1.37
ISL22316UFRT10Z-TKTR-ND	Single DCP, 50KΩ, 128 Tap, I^{2}C Bus*	10-TDFN	1056.00/1,000		
ISL22316UFU10Z-ND	Single DCP, 50KΩ, 128 Tap, I^{2}C Bus*	10-MSOP	2.73	1.68	1.06
ISL22316WFU10Z-ND	Single DCP, 10KΩ, 128 Tap, I^{2}C Bus*	10-MSOP	2.73	1.68	1.06
ISL22346UFV20Z-ND	Quad DCP, 50KΩ, 128 Tap, I^{2}C Bus*	20-TSSOP	6.19	4.12	2.86
ISL22414WFU10Z-ND	Single DCP, 10KΩ, 256 Tap, SPI Bus*	10-MSOP	4.15	2.58	1.72
ISL22416UFU10Z-ND	Single DCP, 50KΩ, 128 Tap, SPI Bus*	10-MSOP	2.73	1.68	1.06
ISL22416WFU10Z-ND	Single DCP, 10KΩ, 128 Tap, SPI Bus*	10-MSOP	2.73	1.68	1.06
ISL22444WFV20Z-ND	Quad DCP, 10KΩ, 256 Tap, SPI Bus*	20-TSSOP	8.45	5.99	4.23
ISL90726UIE627Z-TKCT-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	1.66	.92	.74
ISL90726UIE627Z-TKTR-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	552.00/1,000		
ISL90726WIE627Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	1.66	.92	.74
ISL90726WIE627Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	552.00/1,000		
ISL90727WIE627Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	1.66	.92	.74
ISL90727WIE627Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	552.00/1,000		
ISL90728WIE627Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	1.66	.92	.74
ISL90728WIE627Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	552.00/1,000		
ISL90810UIU8Z-ND	Single DCP, 50KΩ, 256 Tap, I^{2}C Bus*	8-MSOP	3.06	1.89	1.23
ISL90840UIV2027Z-ND	Quad DCP, 50KΩ, 256 Tap, I^{2}C Bus*	20-TSSOP	4.90	3.12	2.14
ISL90840WIV2027Z-ND	Quad DCP, 10KΩ, 256 Tap, I^{2}C Bus*	20-TSSOP	4.90	3.12	2.14
ISL90842UIV1427Z-TKCT-ND	Quad DCP, 50KΩ, 256 Tap, I^{2}C Bus*	14-TSSOP	4.42	2.85	2.37
ISL90842UIV1427Z-TKTR-ND	Quad DCP, 50KΩ, 256 Tap, I^{2}C Bus*	14-TSSOP	1896.00/1,000		
ISL90842WIV1427Z-TKCT-ND	Quad DCP, 10KΩ, 256 Tap, I^{2}C Bus*	14-TSSOP	4.42	2.85	2.37
ISL90842WIV1427Z-TKTR-ND	Quad DCP, 10KΩ, 256 Tap, I^{2}C Bus*	14-TSSOP	1896.00/1,000		
ISL95311WIU10Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap,I^{2}C Interface*	10-MSOP	4.26	2.74	2.28
ISL95311WIU10Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap, I^{2}C Interface*	10-MSOP	1824.00/1,000		
ISL95710UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.76	1.70	1.07
ISL95710WIU10Z-TCT-ND	Single DCP, 10KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.76	1.70	1.38
ISL95711UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, I^{2}C Interface*	10-MSOP	2.76	1.70	1.07
ISL95810UIU8Z-TCT-ND	Single DCP, 50KΩ, 256 Tap, I^{2}C Bus*	8-MSOP	3.39	2.10	1.73
ISL95810UIU8Z-TTR-ND	Single DCP, 50KΩ, 256 Tap, I^{2}C Bus*	8-MSOP	3390.00/2,500		
ISL95810WIU8Z-ND	Single DCP, 10KΩ, 256 Tap, I^{2}C Bus*	8-MSOP	3.21	1.98	1.29
X9110TV14IZ-2.7-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply*	14-TSSOP	10.67	7.47	5.38
X9221AUSIZT1CT-ND	Dual DCP, 50KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	8.74	6.01	5.19
X9241AMVIZ-ND	Quad DCP, 2KΩ, 64 Tap, 2-Wire Bus*	20-TSSOP	12.98	9.44	6.23
X9241AYVIZ-ND	Quad DCP, 50KΩ, 64 Tap, 2-Wire Bus*	20-TSSOP	12.98	9.44	6.23
X9252WV24IZ-2.7-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Up/Down Interface*	24-TSSOP	7.63	5.19	3.66
X9252YV24IZ-2.7-ND	Quad DCP, 2.8KΩ, 256 Tap, 2-Wire Up/Down Interface*	24-TSSOP	7.63	5.19	3.66
X9313WSZT1CT-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire*	8-SOIC	3.54	2.19	1.80
X9313WSZT1TR-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire*	8-SOIC	3540.00/2,500		
X9313ZSZT1CT-ND	Single DCP, 1KΩ, 32 Tap, 3-Wire*	8-SOIC	3.54	2.19	1.80
X9313ZSZT1TR-ND	Single DCP, 1KΩ, 32 Tap, 3-Wire*	8-SOIC	3540.00/2,500		
X9315WSZ-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire Interface*	8-SOIC	3.54	2.19	1.42
X9317UM8IZ-2.7-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-MSOP	7.15	4.87	3.44
X9317US8IZ-2.7T1CT-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	6.27	4.17	3.54
X9317US8IZ-2.7T1TR-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	7230.00/2,500		
X9317ZS8IZ-2.7-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	6.27	4.17	2.90
X9318WS8Z-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	3.83	2.38	1.59
X9319US8IZ-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	4.21	2.61	1.74
X9319WS8IZT1CT-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	4.21	2.61	2.18
X9319WS8IZT1TR-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	4350.00/2,500		
X93155UM8IZT1TR-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	1590.00/2,500		
X93156UM8IZ-2.7T1CT-ND	Single DCP, 50KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1.63	.88	.71
X93156UM8IZ-2.7T1TR-ND	Single DCP, 50KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1320.00/2,500		
X9400WV24IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 64 Tap, SPI*	24-TSSOP	15.10	10.98	9.12
X9409WV24IZ-2.7-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	15.10	10.98	7.25
X9511WSIZ-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	4.23	2.63	1.76
X9511WSZ-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	3.54	2.19	1.42
X95820WV14IZ-2.7T1CT-ND	Dual DCP, 10KΩ, 256 Tap, 2-Wire Bus*	14-TSSOP	4.18	2.60	2.16
X95820WV14IZ-2.7T1TR-ND	Dual DCP, 10KΩ, 256 Tap, 2-Wire Bus*	14-TSSOP	4320.00/2,500		
X95840WV20IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	6.45	4.47	3.78
X95840WV20IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	7740.00/2,500		
X9C102P-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.49	3.66	2.54
X9C102S-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.49	3.66	2.54
X9C102SI-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.60	4.57	3.17
X9C103P-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.18	3.36	2.31
X9C103PZ-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-Dip	4.48	2.80	1.92
X9C103PI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	6.24	4.16	2.88
X9C103S-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.18	3.36	2.31
X9C103SI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.24	4.16	2.88
X9C103SIZT1CT-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.20	3.46	2.93

* *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

(Cont.) DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9C103SIZT1TR-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6000.00/2,500		
X9C104P-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.18	3.36	2.31
X9C104PI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	6.24	4.16	2.88
X9C104S-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.18	3.36	2.31
X9C104SI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.24	4.16	2.88
X9C303P-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	5.49	3.66	2.54
X9C303S8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	6.60	4.57	3.17
X9C503P-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.49	3.66	2.54
X9C503PI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	6.60	4.57	3.17
X9C503S-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.60	4.57	3.17
X9C503SI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.60	4.57	3.17
X9C503SIZT1CT-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.72	3.81	3.23
X9C503SIZT1TR-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6600.00/2,500		
X9015US8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	2.21	1.31	.81
X9015UM8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	1.90	1.12	.75
X9015US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	2.21	1.31	.81
X9110TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	9.36	6.44	4.68
X9110TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	11.62	8.13	5.86
X9111TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	9.36	6.44	4.68
X9119TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	9.36	6.44	4.68
X9119TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	11.62	8.13	5.86
X9119TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	10.24	7.17	5.16
X9119TV14I-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	12.81	8.97	6.46
X9221UPI-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	5.98	4.55	3.48
X9241AUP-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	10.55	7.67	5.07
X9241AWS-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-SOIC	10.55	7.67	5.07
X9241AWVI-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-TSSOP	15.58	11.33	7.48
X9250TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.83	10.78	7.12
X9250TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	18.55	13.49	8.91
X9250TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	16.33	11.87	7.84
X9250TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	20.40	14.84	9.80
X9250US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	18.55	13.49	8.91
X9250US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	20.40	14.84	9.80
X9251US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.83	10.78	7.12
X9252WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	8.78	6.04	4.40
X9258TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	15.55	10.88	7.84
X9258US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	15.55	10.88	7.84
X9258US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	17.83	12.48	8.32
X9259TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	14.83	10.78	7.12
X9261US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.67	8.17	5.88
X9268TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	11.67	8.17	5.88
X9271UV14-2.7-ND	Single DCP, 2.7V, 50KΩ, 256 Tap, SPI	14-TSSOP	8.57	6.00	4.00
X9279TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, I^2C	14-TSSOP	8.57	6.00	4.00
X9279UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, I^2C	14-TSSOP	9.38	6.46	4.70
X9312WS-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.20	1.68
X9313US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.12	2.56	1.71
X9313WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.12	2.56	1.71
X9313WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.81	3.07	2.10
X9313ZS-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.12	2.56	1.71
X9313ZSI-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.81	3.07	2.10
X9314WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Log Taper, 3-Wire Up/Down	8-SOIC	4.12	2.56	1.71
X9315US-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.57	2.21	1.59
X9315WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.19	1.42
X9315WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.81	3.07	2.10
X9315WS-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	4.37	2.81	1.88
X9315WSI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.89	2.42	1.80
X9317US8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	7.23	4.92	3.47
X9317UM8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.43	3.80	2.54
X9317UM8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	8.23	5.84	4.12
X9317WS8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.49	3.66	2.54
X9317WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.60	4.57	3.17
X9317WM8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	6.42	4.28	2.97
X9317WM8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	7.75	5.27	3.72
X9317WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	6.03	4.02	2.79
X9319US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.51	2.18	1.61
X9319WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.87	3.05	2.09
X9400WP24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-Dip	9.78	7.11	4.70
X9400WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	16.48	11.98	7.91
X9400WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	9.68	7.04	4.65
X9400WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	12.08	8.78	5.80
X9400WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	15.10	10.99	7.25
X9408WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap,I^2C, Dual Supply	24-SOIC	13.18	9.58	6.33
X9408WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	13.18	9.58	6.33
X9409WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	24-TSSOP	15.10	10.99	7.25
X9410WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	12.98	9.08	6.54
X9410WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	11.89	8.32	5.55
X9418WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	8.25	6.00	3.96
X9420WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	9.02	6.21	4.52
X9421WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	5.06	3.54	2.36
X9429WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	16-SOIC	4.60	3.22	2.15
X9429WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	14-TSSOP	8.23	5.84	4.12
X9455UV24I-2.7-ND	Dual DCP, 2.7V, 50KΩ, 256 Tap, Two-Wiper	24-TSSOP	7.83	5.48	3.65
X9511WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	4.12	2.56	1.71
X9511WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	4.81	3.07	2.10
X9511WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	4.12	2.56	1.71
X9511WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	4.81	3.07	2.10

DIGITALLY CONTROLLED POTENTIOMETERS WITH OP AMP

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9430WS24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	4.97	3.47	3.01
X9430WS24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9430WS24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	9.14	6.38	5.53
X9430WS24I-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9438WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^2C	24-TSSOP	4.97	3.47	3.01
X9438WV24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^2C	24-TSSOP	5.22	3.65	3.16
X9438WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, I^2C	24-TSSOP	4.97	3.47	3.01

DRIVERS/RECEIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EL4543IUZ-ND	Triple Differential Twisted Pair Driver*	24-QSOP	5.20	3.31	2.27
EL5170IS-ND	100MHz Differential Twisted Pair Driver	8-SOIC	2.54	1.53	.94
EL5170ISZ-T7CT-ND	100MHz Differential Twisted Pair Driver*	8-SOIC	2.41	1.45	1.17
EL5170ISZ-T7TR-ND	100MHz Differential Twisted Pair Driver*	8-SOIC	888.00/1,000		
EL5170IYZ-T7CT-ND	100MHz Differential Twisted Pair Driver*	8-MSOP	2.41	1.45	1.17
EL5170IYZ-T7TR-ND	100MHz Differential Twisted Pair Driver*	8-MSOP	1332.00/1,500		
EL5171IS-ND	250MHz Differential Twisted Pair Driver	8-SOIC	3.00	1.85	1.20
EL5171ISZ-ND	250MHz Differential Twisted Pair Driver*	8-SOIC	2.66	1.58	1.00
EL5172IS-ND	250MHz Differential Line Receiver	8-SOIC	2.54	1.53	.94
EL5172ISZ-ND	250MHz Differential Line Receiver*	8-SOIC	2.15	1.27	.78
EL5173IS-ND	450MHz Differential Twisted Pair Driver	8-SOIC	4.95	3.15	2.16
EL5173ISZ-T7CT-ND	450MHz Differential Twisted Pair Driver*	8-SOIC	4.48	2.80	2.36
EL5173ISZ-T7TR-ND	450MHz Differential Twisted Pair Driver*	8-SOIC	1920.00/1,000		
EL5174IS-ND	550MHz Differential Twisted Pair Driver	8-SOIC	4.65	2.91	2.00
EL5174ISZ-T7CT-ND	550MHz Differential Twisted Pair Driver*	8-SOIC	3.30	2.04	1.68
EL5174ISZ-T7TR-ND	550MHz Differential Twisted Pair Driver*	8-SOIC	1320.00/1,000		
EL5175IS-ND	550MHz Differential Line Receiver	8-SOIC	4.65	2.91	2.00
EL5175ISZ-ND	550MHz Differential Line Receiver*	8-SOIC	3.09	1.91	1.24
EL5175IY-ND	550MHz Differential Line Receiver	8-MSOP	3.45	2.13	1.53
EL5175IYZ-T7CT-ND	550MHz Differential Line Receiver*	8-MSOP	3.30	2.04	1.68
EL5175IYZ-T7TR-ND	550MHz Differential Line Receiver*	8-MSOP	1980.00/1,500		
EL5177IYZ-ND	550MHz Differential Twisted Pair Driver*	10-MSOP	3.00	1.85	1.20
EL5370IUZ-ND	100MHz Differential Twisted Pair Driver*	24-QSOP	5.18	3.36	2.31
EL5372IUZ-T7CT-ND	250MHz Differential Line Receiver*	24-QSOP	5.37	3.49	2.94
EL5373IUZ-ND	450MHz Differential Twisted Pair Driver*	24-QSOP	5.77	3.85	2.67
EL5374IUZ-ND	550MHz Differential Twisted Pair Driver*	28-QSOP	5.77	3.85	2.67
EL5375IUZ-ND	550MHz Differential Line Receiver*	24-QSOP	5.41	3.60	2.50
EL7104CSZ-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	5.17	3.29	2.26
EL7104CSZ-T7CT-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	5.20	3.46	2.93
EL7104CSZ-T7TR-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	2400.00/1,000		
EL7154CSZ-ND	High Speed Mono Pin Driver*	8-SOIC	5.80	3.86	2.68
EL7155CSZ-ND	High Performance Pin Driver*	8-SOIC	6.03	4.02	2.79
EL7156CSZ-ND	High Performance Pin Driver*	8-SOIC	6.03	4.02	2.79
EL7156CSZ-T7CT-ND	High Performance Pin Driver*	8-SOIC	6.24	4.16	3.52
EL7156CSZ-T7TR-ND	High Performance Pin Driver*	8-SOIC	2880.00/1,000		
EL7158ISZ-ND	Ultra-High Current Pin Driver*	8-SOIC	7.95	5.41	3.82
EL7202CSZ-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	5.09	3.24	2.22
EL7202CSZ-T7CT-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	5.09	3.24	2.73
EL7202CSZ-T7TR-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	2220.00/1,000		
EL7212CSZ-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	5.17	3.29	2.26
EL7212CSZ-T7CT-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	5.17	3.29	2.78
EL7212CSZ-T7TR-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	2256.00/1,000		
EL7222CSZ-ND	High Speed, Dual Channel Power MOSFET Driver*	8-SOIC	5.17	3.29	2.26
EL7232CNZ-ND	HS, Dual Channel, High Current Line Driver*	8-PDip	5.62	3.74	2.60
EL7232CSZ-ND	HS, Dual Channel, High Current Line Driver*	8-SOIC	5.14	3.60	2.16
EL7232CSZ-T7CT-ND	HS, Dual Channel, High Current Line Driver*	8-SOIC	5.40	3.78	3.16
EL7232CSZ-T7TR-ND	HS, Dual Channel, High Current Line Driver*	8-SOIC	2268.00/1,000		
EL7242CSZ-ND	Dual Input, HS Dual Channel Power MOSFET Driver*	8-SOIC	5.62	3.74	2.60
EL7242CSZ-T7CT-ND	Dual Input, HS Dual Channel Power MOSFET Driver*	8-SOIC	5.59	3.72	3.15
EL7242CSZ-T7TR-ND	Dual Input, HS Dual Channel Power MOSFET Driver*	8-SOIC	2580.00/1,000		
EL7252CSZ-ND	Dual Input, HS, Dual Ch. Pwr. MOSFET Dvr.*	8-SOIC	5.62	3.74	2.60
EL7457CLZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QFN	5.14	3.28	2.25
EL7457CSZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	5.32	3.45	2.37
EL7457CSZ-T7CT-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	5.36	3.57	3.02
EL7457CSZ-T7TR-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	2472.00/1,000		
EL7457CUZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	5.14	3.28	2.25
EL7457CUZ-T7CT-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	5.29	3.43	2.90
EL7457CUZ-T7TR-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	2352.00/1,000		
EL9110IU-ND	Differential Receiver/Equalizer	16-QSOP	17.25	12.55	8.28
EL9110IUZ-ND	Differential Receiver/Equalizer*	16-QSOP	14.38	10.45	6.90
EL9111ILZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	35.38	25.73	16.98
EL9112ILZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	35.38	25.73	16.98
HIN202CBN-ND	5V, RS-232 Transmitter/Receiver	16-SOIC	1.87	1.10	.66
HIN202CBNZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.66	.92	.56
HIN202CBZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.66	.92	.56
HIN202CP-ND	5V, RS-232 Transmitter/Receiver	16-Dip	1.87	1.10	.66
HIN202ECBNZ-TCT-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1.52	.82	.66
HIN202ECBNZ-TTR-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1230.00/2,500		
HIN202ECBZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1.66	.92	.56
HIN202EIBN-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	1.76	.98	.59
HIN206CB-ND	5V, RS-232 Transmitter/Receiver	24-SOIC	4.82	3.01	2.07
HIN208EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	24-SSOP	5.43	3.62	2.51
HIN211EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.64	1.62	1.02
HIN211EIAZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2.31	1.39	.86
HIN232ACBN-ND	5V RS-232 Transmitter/Receiver, HS	16-SOIC	1.76	.98	.59
HIN232ACBNZ-TCT-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1.59	.86	.69
HIN232ACBNZ-TTR-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1290.00/2,500		

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HIN232ACP-ND	5V RS-232 Transmitter/Receiver, HS	16-Dip	1.97	1.16	.70
HIN232CBZ-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1.33	.74	.42
HIN232CPZ-ND	5V RS-232 Transmitter/Receiver, HS*	16-PDip	1.52	.82	.50
HIN232ECBNZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Prot.*	16-SOIC	1.52	.82	.50
HIN232ECPZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Prot.*	16-PDip	2.31	1.39	.86
HIP2100EIBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-EPSOIC	4.68	2.93	2.01
HIP2100IB-ND	100V, 2A Peak, High Freq., Half Bridge Driver	8-SOIC	5.18	3.36	2.31
HIP2100IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	2.95	1.81	1.14
HIP2100IBZTCT-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	2.95	1.81	1.48
HIP2100IBZTTR-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	2850.00/2,500		
HIP2101EIBZ-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	4.73	2.96	2.03
HIP2101EIBZTCT-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	4.73	2.96	2.50
HIP2101EIBZTTR-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	5070.00/2,500		
HIP2101IB-ND	100V, 2A Peak, High Freq., Half Bridge Driver	8-SOIC	5.18	3.36	2.31
HIP2101IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	4.73	2.96	2.03
HIP2101IBZTCT-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	4.73	2.96	2.50
HIP2101IBZTTR-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	5070.00/2,500		
HIP4020IBZ-ND	3/5/12V, 0.5A Full Bridge Motor Driver*	20-SOIC	5.77	3.85	2.67
HIP4080AIBZTCT-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	6.70	4.64	3.93
HIP4080AIBZTTR-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	3216.00/1,000		
HIP4080AIBZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	6.60	4.57	3.17
HIP4080AIP-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-Dip	7.98	5.43	3.83
HIP4080AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	6.65	4.61	3.20
HIP4081AIB-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-SOIC	7.93	5.39	3.81
HIP4081AIBZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	6.60	4.57	3.17
HIP4081AIBZTCT-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	6.70	4.64	3.93
HIP4081AIBZTTR-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	3216.00/1,000		
HIP4081AIP-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-Dip	8.30	5.89	4.16
HIP4081AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	7.20	4.90	3.46
HIP4082IB-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-SOIC	6.19	4.12	2.86
HIP4082IBZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	4.79	3.00	2.06
HIP4082IBZTCT-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	4.79	3.00	2.53
HIP4082IP-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-Dip	6.37	4.24	2.94
HIP4082IPZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-Dip	4.79	3.00	2.06
HIP4083APZ-ND	80V, 300mA Three Phase High Side Driver*	16-Dip	5.12	3.26	2.24
HIP4086AB-ND	80V, 0.5A Three Phase Driver	24-SOIC	10.29	7.20	5.19
HIP4086ABZ-ND	80V, 0.5A Three Phase Driver*	24-SOIC	8.64	5.94	4.32
HIP4086ABZTCT-ND	80V, 0.5A Three Phase Driver*	24-SOIC	8.78	6.04	5.22
HIP4086ABZTTR-ND	80V, 0.5A Three Phase Driver*	24-SOIC	4392.00/1,000		
HIP4086APZ-ND	80V, 0.5A Three Phase Driver*	24-Dip	9.22	6.34	4.61
HIP6601BCBZA-ND	Sync. Rectified Buck Dual MOSFET Driver*	8-SOIC	3.54	2.19	1.42
ICL3221CAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SSOP	2.24	1.33	.82
ICL3221CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	2.24	1.33	.82
ICL3221ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	16-SSOP	2.62	1.56	.99
ICL3221ECAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	2.24	1.33	.82
ICL3221EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	16-SSOP	3.09	1.91	1.24
ICL3221EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	2.67	1.64	1.04
ICL3221EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	2.76	1.70	1.07
ICL3221IAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	2.24	1.33	.82
ICL3222CAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	2.98	1.83	1.16
ICL3222CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-TSSOP	2.66	1.58	1.00
ICL3222CBZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	18-SOIC	2.98	1.83	1.16
ICL3222ECAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	3.48	2.15	1.40
ICL3222EIB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	18-SOIC	4.03	2.51	1.67
ICL3222EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	3.97	2.47	1.65
ICL3222IAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	2.76	1.70	1.38
ICL3222IAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	1068.00/1,000		
ICL3223ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	2.34	1.41	1.14
ICL3223ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	864.00/1,000		
ICL3224EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	20-SSOP	5.95	3.97	2.75
ICL3225ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	20-SSOP	3.45	2.13	1.38
ICL3225ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	2.98	1.83	1.49
ICL3225ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	1152.00/1,000		
ICL3225EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	20-SSOP	5.98	3.98	2.76
ICL3225EIAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	5.18	3.36	2.84
ICL3225EIAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	20-SSOP	2304.00/1,000		
ICL3227ECAZA-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	3.42	2.11	1.74
ICL3227ECAZA-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	1368.00/1,000		
ICL3227EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	16-SSOP	4.68	2.93	2.01
ICL3227EIAZA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SSOP	4.03	2.51	1.67
ICL3232CBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	2.34	1.41	.87
ICL3232CBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	2.04	1.17	.72
ICL3232CP-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-Dip	2.34	1.41	.87
ICL3232CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.66	.92	.56
ICL3232ECBN-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	16-SOIC	3.54	2.20	1.47
ICL3232ECBZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-SOIC	3.06	1.89	1.23
ICL3232ECV-16Z-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	16-TSSOP	3.97	2.47	1.65
ICL3232IBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	1.97	1.16	.70
ICL3232IBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	1.73	.96	.58
ICL3232IVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.63	.88	.53
ICL3238EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	4.95	3.15	2.16
ICL3241ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	4.20	2.70	2.25
ICL3241ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	1800.00/1,000		
ICL3241EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-TSSOP	5.12	3.26	2.24
ICL3243ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	2.15	1.27	1.03
ICL3243ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	780.00/1,000		
ICL3243EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	3.36	2.08	1.35
ICL3244ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	4.76	2.98	2.51
ICL3244ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	2040.00/1,000		
ICL3244EIAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	5.32	3.45	2.91
ICL3244EIAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.*	28-SSOP	2364.00/1,000		
ICL7667CBAZA-TCT-ND	Dual Power MOSFET Driver*	8-SOIC	3.15	1.95	1.61
ICL7667CBAZA-TTR-ND	Dual Power MOSFET Driver*	8-SOIC	3150.00/2,500		
ICL7667CPAZ-ND	Dual Power MOSFET Driver*	8-Dip	3.15	1.95	1.26
ICM7228AIBIZ-ND	8-Digit, Microprocessor-Compatible, LED Display Decoder Driver*	28-SOIC	9.02	6.21	4.52
ICM7244AIM44Z-ND	8-Character, Microprocessor Compatible, LED Display Decoder Driver*	44-MQFP	14.81	10.77	8.08
ISL2111ABZ-ND	100V, High Frequency Half-Bridge N-Channel MOSFET Driver*	8-SOIC	4.82	3.01	2.07
ISL2111AR4Z-ND	100V, High Frequency Half-Bridge N-Channel MOSFET Driver*	12-DFN	4.82	3.01	2.07
ISL3150EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3150EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3150EIUZ-TCT-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	2.27
ISL3152EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3152EIPZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-PDIP	4.23	2.72	1.82
ISL3152EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3153EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3153EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3155EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3155EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3156EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3156EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3158EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3158EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3159EFBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3159EFRZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-DFN	4.23	2.72	1.82
ISL3159EFUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3159EIBZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	3.45	2.13	1.38
ISL3159EIRZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-DFN	3.45	2.13	1.38
ISL3159EIUZ-ND	5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	3.45	2.13	1.38
ISL3170EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3170EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3171EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3171EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3172EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3172EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3173EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3173EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3174EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3174EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3175EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3175EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3176EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	14-SOIC	4.23	2.72	1.82
ISL3176EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-MSOP	4.23	2.72	1.82
ISL3177EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3177EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3178EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	4.23	2.72	1.82
ISL3178EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	4.23	2.72	1.82
ISL3179EFBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	3.65	2.27	1.52
ISL3179EFRZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-DFN	3.65	2.27	1.52
ISL3179EFUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	3.65	2.27	1.52
ISL3179EIBZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-SOIC	2.98	1.83	1.16
ISL3179EIRZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	10-DFN	2.98	1.83	1.16
ISL3179EIUZ-ND	3.3V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-MSOP	2.98	1.83	1.16
ISL3180EIBZ-ND	3.3V, RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	3.65	2.27	1.52
ISL3280EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-5	3.24	2.00	1.65
ISL3280EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-5	3888.00/3,000		
ISL3280EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-5	2.54	1.53	1.23
ISL3280EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-5	2808.00/3,000		
ISL3281EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3281EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3281EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3281EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3282EFRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	3.24	2.00	1.65
ISL3282EFRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	7776.00/6,000		

** RoHS Compliant*

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(Continued)

intersil Digi-Reel® (Cont.) DRIVERS/RECEIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL3282EIRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	2.54	1.53	1.23
ISL3282EIRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	5616.00/6,000		
ISL3283EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3283EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3283EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3283EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3284EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3284EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3284EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3284EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3285EFRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	3.24	2.00	1.65
ISL3285EFRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	7776.00/6,000		
ISL3285EIRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	2.54	1.53	1.23
ISL3285EIRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	5616.00/6,000		
ISL3293EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3293EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3293EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3293EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3294EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3294EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3294EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3294EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3295EFHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3.24	2.00	1.65
ISL3295EFHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	3888.00/3,000		
ISL3295EIHZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2.54	1.53	1.23
ISL3295EIHZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	SOT-23-6	2808.00/3,000		
ISL3296EFRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	3.24	2.00	1.65
ISL3296EFRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	7776.00/6,000		
ISL3296EIRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	2.54	1.53	1.23
ISL3296EIRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	5616.00/6,000		
ISL3297EFRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	3.24	2.00	1.65
ISL3297EFRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	7776.006,000		
ISL3297EIRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	2.54	1.53	1.23
ISL3297EIRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	5616.00/6,000		
ISL3298EFRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	3.24	2.00	1.65
ISL3298EFRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	7776.00/6,000		
ISL3298EIRTZ-TCT-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	2.54	1.53	1.23
ISL3298EIRTZ-TTR-ND	3V-5.5V, RS-485/RS-422 Transmitter/Receiver, ESD Protected*	8-TDFN	5616.00/6,000		
ISL4223EIR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Prot.	20-QFN	5.23	3.48	2.42
ISL4241EIRZ-TCT-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	6.32	4.21	3.56
ISL4243EIR-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected	32-QFN	6.19	4.12	2.86
ISL4244EIRZ-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	6.68	4.85	3.21
ISL4270EIRZ-TCT-ND	RS-232 Transmitter/Receiver*	32-QFN	5.98	3.98	3.37
ISL4270EIRZ-TTR-ND	RS-232 Transmitter/Receiver*	32-QFN	16560.00/6,000		
ISL4485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.45	2.13	1.38
ISL4485EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.56	1.52	.96
ISL4489EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	2.69	1.60	1.01
ISL4491EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	3.03	1.87	1.22
ISL6207CBZ-ND	High Voltage Sync. Rectified Buck MOSFET Driver*	8-SOIC	2.62	1.56	.99
ISL6594BCRZ-TCT-ND	Adv. Synchronous Rectified Buck MOSFET Driver*	10-DFN	3.68	2.29	1.91
ISL6594BCRZ-TTR-ND	Adv. Synchronous Rectified Buck MOSFET Driver*	10-DFN	9144.00/6,000		
ISL6605CBZ-ND	Synchronous Rectified MOSFET Driver*	8-SOIC	3.03	1.87	1.22
ISL6605CRZ-ND	Synchronous Rectified MOSFET Driver*	8-QFN	3.27	2.02	1.31
ISL6605IBZ-ND	Synchronous Rectified MOSFET Driver*	8-SOIC	2.67	1.64	1.04
ISL6612ACBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.54	2.20	1.47
ISL6612BCBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	4.12	2.56	1.71
ISL6612CBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.54	2.20	1.47
ISL6613AEIBZ-TCT-ND	Adv. Sync. Rectified Buck MOSFET Driver*	8-EPSOIC	3.97	2.47	2.06
ISL6613AEIBZ-TTR-ND	Adv. Sync. Rectified Buck MOSFET Driver*	8-EPSOIC	4110.00/2,500		
ISL6614CBZ-ND	Dual Adv. Sync. Rectified Buck MOSFET Driver*	14-SOIC	6.03	4.02	2.79
ISL6614CRZ-ND	Dual Adv. Sync. Rectified Buck MOSFET Driver*	16-QFN	6.16	4.10	2.85
ISL6614IB-ND	Dual Adv. Sync. Rectified Buck MOSFET Driver	14-SOIC	6.29	4.19	2.91
ISL6622CBZ-TCT-ND	High Frequency Sync. Rectified Buck MOSFET Dvr.*	8-SOIC	4.51	2.82	2.38
ISL6622CBZ-TTR-ND	High Frequency Sync. Rectified Buck MOSFET Dvr.*	8-SOIC	4830.00/2,500		
ISL6622CRZ-TCT-ND	High Frequency Sync. Rectified Buck MOSFET Dvr.*	10-DFN	4.06	2.52	2.10
ISL6622CRZ-TTR-ND	High Frequency Sync. Rectified Buck MOSFET Dvr.*	10-DFN	10080.00/6,000		
ISL6700IBZ-ND	80V Peak, Medium Freq., Low Cost Half Bridge Dvr.*	8-SOIC	3.24	2.00	1.30
ISL6700IBZ-TCT-ND	80V Peak, Medium Freq., Low Cost Half Bridge Dvr.*	8-SOIC	3.24	2.00	1.65
ISL6700IBZ-TTR-ND	80V Peak, Medium Freq., Low Cost Half Bridge Dvr.*	8-SOIC	3240.00/2,500		

intersil Digi-Reel® (Cont.) DRIVERS/RECEIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL8483ECPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-Dip	3.06	1.89	1.23
ISL8483EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.54	2.20	1.47
ISL8483EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.06	1.89	1.23
ISL8483EIPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-PDip	3.06	1.89	1.23
ISL8485ECBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.95	1.81	1.14
ISL8485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.45	2.13	1.38
ISL8485EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.95	1.81	1.14
ISL8485EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	3.45	2.13	1.38
ISL8485IBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.18	1.29	.80
ISL8487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.97	2.47	1.65
ISL8487EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.95	1.81	1.14
ISL8488EIBZA-ND	5V, RS-485/RS-422 Transceiver*	8-SOIC	3.06	1.89	1.23
ISL8488IB-ND	5V, RS-485/RS-422 Transceiver	8-SOIC	2.91	1.79	1.13
ISL8489EIBZ-ND	5V, RS-485/RS-422 Transceiver*	14-SOIC	3.06	1.89	1.23
ISL8490IBZ-ND	5V, LP RS-485/RS-422 Transceiver*	8-SOIC	2.54	1.53	.94
ISL8491EIBZ-ND	5V, LP RS-485/RS-422 Transceiver, ESD Prot.*	14-SOIC	3.06	1.89	1.23
ISL41334IRZ-TCT-ND	Dual Protocol Transceiver*	40-QFN	8.10	5.51	4.70
ISL41334IRZ-TTR-ND	Dual Protocol Transceiver*	40-QFN	15552.00/4,000		
ISL43485IBZ-ND	3.3V, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.98	1.83	1.16
ISL54103IHZ-T7CT-ND	DDC Accelerator*	SOT23-5	5.37	3.49	2.94
ISL54103IHZ-T7TR-ND	DDC Accelerator*	SOT23-5	7164.00/3,000		
ISL55110IRZ-ND	Dual, High Speed MOSFET Driver*	16-QFN	2.34	1.41	.87
ISL55110IVZ-ND	Dual, High Speed MOSFET Driver*	8-TSSOP	2.34	1.41	.87
ISL55111IRZ-ND	Dual, High Speed MOSFET Driver*	16-QFN	2.34	1.41	.87
ISL59910IRZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	24.40	17.75	11.72
ISL59913IRZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	24.40	17.75	11.72
ISL59830IAZ-ND	Single Supply Video Driver*	16-QSOP	3.89	2.42	1.61
ISL81334IAZ-TCT-ND	ESD Prot., Two Port, Dual Protocol Transceiver*	28-SSOP	8.10	5.51	4.70
ISL81334IAZ-TTR-ND	ESD Prot., Two Port, Dual Protocol Transceiver*	28-SSOP	3888.00/1,000		
ISL81387IAZ-TCT-ND	ESD Protected, Dual Port Transceiver*	20-SSOP	6.60	4.57	3.87
ISL81387IAZ-TTR-ND	ESD Protected, Dual Port Transceiver*	20-SSOP	3168.00/1,000		
ISL81387IBZ-TCT-ND	ESD Protected, Dual Port Transceiver*	20-SOIC	6.60	4.57	3.87
ISL81387IBZ-TTR-ND	ESD Protected, Dual Port Transceiver*	20-SOIC	3168.00/1,000		
ISL81483IBZ-TCT-ND	5V, RS-485/RS-422 Xcvr, ESD Protected*	8-SOIC	2.69	1.60	1.31
ISL81483IBZ-TTR-ND	5V, RS-485/RS-422 Xcvr, ESD Protected*	8-SOIC	2520.00/2,500		
ISL81485IBZ-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	2.21	1.31	.81
ISL81487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.76	1.70	1.19
ISL81487EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	3.71	2.31	1.54
ISL81487LIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.03	1.87	1.22
ISL81487LIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	3.03	1.87	1.22
ISL81487EIBZ-TCT-ND	ESD Prot., LP, RS-485/RS-422 Transceiver*	8-SOIC	3.21	1.98	1.64
ISL81487EIBZ-TTR-ND	ESD Prot., LP, RS-485/RS-422 Transceiver*	8-SOIC	3210.00/2,500		
ISL81487LIBZ-ND	ESD Prot., LP, RS-485/RS-422 Transceiver*	8-SOIC	2.69	1.60	1.01
ISL83070EIBZA-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4.23	2.72	1.82
ISL83070EIBZA-TCT-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4.23	2.72	2.27
ISL83070EIBZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4530.00/2,500		
ISL83072EIBZA-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	1.82
ISL83072EIBZA-TCT-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	2.27
ISL83072EIBZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4530.00/2,500		
ISL83072EIUZA-TCT-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	4.23	2.72	2.27
ISL83072EIUZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	4530.00/2,500		
ISL83073EIBZA-TCT-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4.23	2.72	2.27
ISL83073EIBZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4530.00/2,500		
ISL83075EIBZA-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	1.82
ISL83076EIBZA-TCT-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	2.57	1.55	1.25
ISL83076EIBZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	2370.00/2,500		
ISL83078EIBZA-TCT-ND	ESD Prot. 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	2.27
ISL83078EIBZA-TTR-ND	ESD Prot., 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4530.00/2,500		
ISL83080EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	14-SOIC	4.98	3.17	2.18
ISL83082EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	8-SOIC	3.65	2.27	1.68
ISL83082EIBZ-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	1.82
ISL83083EIBZ-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	4.23	2.72	1.82
ISL83085EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	4.23	2.72	2.27
ISL83085EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	4530.00/2,500		
ISL83085EIUZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	4.23	2.72	2.27
ISL83086EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	14-SOIC	4.98	3.17	2.18
ISL83086EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	4.23	2.72	2.27
ISL83086EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	4530.00/2,500		
ISL83086EIUZ-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	10-MSOP	4.23	2.72	1.82
ISL83204AIPZ-ND	High Frequency Full Bridge FET Driver*	20-PDip	6.45	4.47	3.10
ISL83220ECVZ-ND	ESD Protected, 3V-5.5V, RS-232 Transmitter/Rcvr.*	16-TSSOP	3.89	2.42	1.61
ISL83220ECVZ-TCT-ND	ESD Protected, 3V-5.5V, RS-232 Transmitter/Rcvr.*	16-TSSOP	3.89	2.42	2.01
ISL83220ECVZ-TTR-ND	ESD Protected, 3V-5.5V, RS-232 Transmitter/Rcvr.*	16-TSSOP	4020.00/2,500		
ISL83386EIVZ-ND	ESD Protected, 3V-5.5V, RS-232 Transmitter/Rcvr.*	20-TSSOP	3.04	1.87	1.18
ISL83387EIV-ND	ESD Protected, 3V-5.5V, RS-232 Transceiver	24-TSSOP	6.29	4.19	2.91
ISL83387EIVZ-ND	ESD Protected, 3V-5.5V, RS-232 Transceiver*	24-TSSOP	5.25	3.50	2.43
ISL83483IBZ-TCT-ND	3.3V, LP, Slew Rate Limited, RS-485/RS-422 Xcvr*	8-SOIC	3.30	2.04	1.68
ISL83483IBZ-TTR-ND	3.3V, LP, Slew Rate Limited, RS-485/RS-422 Xcvr*	8-SOIC	3300.00/2,500		
ISL83485IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	8-SOIC	3.51	2.18	1.46
ISL83485IBZ-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver*	8-SOIC	3.03	1.87	1.22
ISL83488IBZ-ND	3.3V, LP, Slew Rate Limited, RS-485/RS-422 Xcvr.*	8-SOIC	3.03	1.87	1.22
ISL83490IBZ-ND	3.3V, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	3.03	1.87	1.22
ISL83491IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	14-SOIC	3.24	2.00	1.30
ISL83491IBZ-ND	3.3V, LP, HS, RS-485/RS-422 Transceiver*	14-SOIC	2.79	1.71	1.08
ISL88694IH5ZCT-ND	SMBus Accelerator*	SOT-23-5	3.83	2.38	1.98
ISL88694IH5ZTR-ND	SMBus Accelerator*	SOT-23-5	1584.00/1,000		
ISL97632IRT26Z-TKCT-ND	White PWM Boost LED Driver*	8-TDFN	4.00	2.49	2.07
ISL97632IRT26Z-TKTR-ND	White PWM Boost LED Driver*	8-TDFN	1656.00/1,000		
ISL97635AIRZ-TKCT-ND	SMBus 6-Channel LED Driver*	24-QFN	5.82	3.88	3.29
ISL97635AIRZ-TKTR-ND	SMBus 6-Channel LED Driver*	24-QFN	2688.00/1,000		
ISL97636AIRZ-ND	6-Channel LED Driver*	24-QFN	5.36	3.57	2.48
ISL97636IRZ-ND	8-Channel LED Driver*	24-QFN	5.82	3.88	2.69
ISL97801ARZ-TKCT-ND	High Power LED Driver*	20-QFN	6.60	4.57	3.87
ISL97801ARZ-TKTR-ND	High Power LED Driver*	20-QFN	3168.00/1,000		

intersil Digi-Reel® INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CS82C50A-5Z-ND	CMOS Async. Communication Element*	44-PLCC	25.72	19.29	15.44
CS82C55AZ96CT-ND	CMOS Programmable Peripheral Interface*	44-PLCC	7.80	5.31	4.53
CS82C55AZ96TR-ND	CMOS Programmable Peripheral Interface*	44-PLCC	1872.00/500		
CS82C59AZ96CT-ND	CMOS Priority Interrupt Controller*	28-PLCC	7.33	4.99	4.25
DG406DJZ-ND	Single 16-Channel, CMOS Analog Mux*	28-Dip	5.30	3.53	2.45
DG406DY-ND	Single 16-Channel, CMOS Analog Mux	28-SOIC	7.93	5.39	3.81

* RoHS Compliant

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(Continued)

intersil Digi-Reel® *(Cont.)* INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DG407DY-ND	Diff. 8-Channel, CMOS Analog Mux	28-SOIC	9.17	6.31	4.59
DG408DJZ-ND	Single 8-Channel, CMOS Analog Mux*	16-Dip	2.64	1.62	1.02
DG408DY-ND	Single 8-Channel, CMOS Analog Mux	16-SOIC	2.95	1.81	1.14
DG409DJZ-ND	Diff. 4-Channel, CMOS Analog Mux*	16-Dip	2.64	1.62	1.02
DG409DYIS-ND	Diff. 4-Channel, CMOS Analog Mux	16-SOIC	2.76	1.70	1.07
DG409DYZ-ND	Diff. 4-Channel, CMOS Analog Mux*	16-SOIC	2.56	1.52	.96
EL7515IYZ-ND	High Freq. PWM Step-Up Regulator*	10-MSOP	5.43	3.62	2.51
EL7530IYZ-ND	Mono 600mA Step-Down Regulator*	10-MSOP	3.21	1.98	1.29
EL7531IYZ-ND	Mono 1A Step-Down Regulator*	10-MSOP	4.28	2.76	1.84
EL7532IYZ-ND	Mono 2A Step-Down Regulator*	10-MSOP	5.09	3.24	2.22
EL7534IYZ-ND	Mono 600mA Step-Down Regulator*	10-MSOP	2.76	1.70	1.07
EL7535IYZ-T7CT-ND	Mono 350mA Step-Down Regulator*	10-MSOP	4.95	3.15	2.66
EL7535IYZ-T7TR-ND	Mono 350mA Step-Down Regulator*	10-MSOP	3240.00/1,500		
EL7536IYZ-ND	Mono 1A Step-Down Regulator*	10-MSOP	4.00	2.49	1.66
EL7554IREZ-ND	Mono 4A DC/DC Step-Down Regulator*	28-HTSSOP	6.78	4.93	3.26
EL7562CUZ-ND	2A DC/DC Sync. Step-Down Regulator*	16-QSOP	9.41	6.47	4.71
EL7564CMZ-ND	Mono 4A DC/DC Step-Down Regulator*	20-SOIC	10.95	7.67	5.52
EL7566AIREZ-ND	Mono 6A DC/DC Step-Down Regulator*	28-HTSSOP	16.10	11.27	8.12
EL7566DREZ-ND	Mono 6A DC/DC Step-Down Regulator*	28-HTSSOP	8.60	6.25	4.13
EL7630ICZ-T7ACT-ND	White LED Boost Regulator*	SC70-6	4.26	2.65	2.21
EL7630ICZ-T7ATR-ND	White LED Boost Regulator*	SC70-6	441.00/250		
HA9P2556-9Z-ND	57MHz Mono, HS Four Quadrant Analog Mux*	16-SOIC	32.52	22.77	16.40
HA9P5002-5Z-ND	110MHz, High Slew Rate, High Out Current Buffer*	8-SOIC	5.46	3.64	2.52
HI3-0507-5-ND	8-Channel Diff. CMOS Analog Mux	28-Dip	20.05	14.03	10.11
HI3-0508-5-ND	Single 8-Channel CMOS Analog Mux	16-Dip	4.81	3.07	2.10
HI3-0508A-5Z-ND	Single 8-Channel CMOS Analog Mux*	16-PDip	5.18	3.36	2.31
HI3-0516-5Z-ND	16-Ch./Diff. 8-Ch., CMOS High Speed Analog Mux*	28-Dip	54.83	38.38	27.64
HIP6004BCBZA-ND	Buck/Sync. Rectifier (PWM) Controller and Output Voltage Monitor*	20-SOIC	4.23	2.63	1.76
HIP6004ECBZ-ND	Buck/Sync. Rectifier (PWM) Controller and Output Voltage Monitor*	20-SOIC	5.24	3.40	2.33
HIP6006CB-CT-ND	PWM Buck/Sync.-Rectifier Controller	14-SOIC	3.04	2.26	1.67
HIP6006CBZ-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3.24	2.00	1.30
HIP6012CBZ-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3.12	1.93	1.25
HIP6012CBZ-TCT-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3.45	2.13	1.76
HIP6012CBZ-TTR-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3450.00/2,500		
HIP6302CB-CT-ND	Microprocessor CORE Voltage Regulator, Multi-Phase Buck PWM Controller	16-SOIC	4.20	3.20	2.44
HIP6311ACBZA-ND	Microprocessor CORE Voltage Regulator, Multi-Phase Buck PWM Controller*	20-SOIC	6.24	4.16	2.88
HIP6521CBZA-TCT-ND	PWM and Triple Linear Power Controller*	16-SOIC	6.01	4.00	3.59
HIP6521CBZA-TTR-ND	PWM and Triple Linear Power Controller*	16-SOIC	6930.00/2,500		
IS82C52Z-ND	CMOS Serial Controller Interface*	28-PLCC	61.09	48.37	40.73
IS82C55AZ-ND	CMOS Programmable Peripheral Interface*	44-PLCC	13.48	9.77	7.19
IS82C55AZ96CT-ND	CMOS Programmable Peripheral Interface*	44-PLCC	13.33	9.70	8.49
IS82C55AZ96TR-ND	CMOS Programmable Peripheral Interface*	44-PLCC	3636.00/500		
ISL6124IRZA-ND	Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6130IRZA-ND	Power Sequencing Controller*	24-QFN	6.83	4.96	3.28
ISL6144IRZA-ND	High Voltage O-Ring MOSFET Controller*	20-QFN	6.88	5.00	3.30
ISL6144IVZA-ND	High Voltage O-Ring MOSFET Controller*	16-TSSOP	6.88	5.00	3.30
ISL6224CAZ-ND	Single Output Mobile-Friendly PWM Controller*	16-SSOP	5.37	3.49	2.39
ISL6227CAZ-ND	Dual Mobile-Friendly PWM Cont. with DDR Option*	28-QSOP	5.62	3.74	2.60
ISL6271ACRZ-ND	Integrated XScale Regulator*	20-QFN	4.95	3.15	2.16
ISL6236IRZA-TKR5281CT-ND	Quad Output Power Supply Controller*	32-QFN	6.43	4.45	3.77
ISL6236IRZA-TKR5281TR-ND	Quad Output Power Supply Controller*	32-QFN	3084.00/1,000		
ISL62383HRTZ-ND	Triple Output Power Supply Controller*	28-TQFN	6.40	4.26	2.96
ISL6401CB-ND	Adj. Freq., LP, PWM Current Mode Controller	14-SOIC	7.97	5.65	3.99
ISL6401CBZ-ND	Adj. Freq., LP, PWM Current Mode Controller*	14-SOIC	6.93	4.80	3.33
ISL6402IR-ND	300kHz Dual Step-Down PWM/Single Linear Cont.	28-QFN	5.70	4.34	3.31
ISL6410AIU-ND	5V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6410IR-ND	3.3V Single Sync. Buck Reg. with Integrated FET	16-QFN	2.98	2.21	1.64
ISL6410IU-ND	3.3V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6420AIAZ-ND	Single Sync. Buck PWM Controller*	20-QSOP	3.83	2.38	1.59
ISL6420AIRZ-ND	Single Sync. Buck PWM Controller*	20-QFN	3.83	2.38	1.59
ISL6420AIRZ-TKCT-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	3.89	2.42	2.01
ISL6420AIRZ-TKTR-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	1608.00/1,000		
ISL6420IRZ-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	3.83	2.38	1.59
ISL6421AERZ-ND	Single Output LNB Supply and Control Voltage Reg. with I^{2}C Interface*	32-QFN	4.26	2.74	1.83
ISL6431CB-ND	High Eff., Fixed Freq., Sync. Buck PWM Controller	8-SOIC	2.88	1.77	1.12
ISL6439CB-ND	Single Sync. Buck PWM Controller	14-SOIC	3.33	2.06	1.34
ISL6440IAZ-TCT-ND	300kHz Dual, Step-Down PWM Controller*	24-QSOP	6.03	4.02	3.40
ISL6441IRZ-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/ Single Linear Controller*	28-QFN	6.27	4.17	2.90
ISL6441IRZ-TKCT-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/ Single Linear Controller*	28-QFN	6.27	4.17	3.54
ISL6443AIRZ-ND	300kHz Dual, 180° Out-of-Phase, Step-Down PWM/ Single Linear Controller*	28-QFN	5.25	3.50	2.43
ISL6443IRZ-ND	300kHz Dual, 180° Out-of-Phase, Step-Down PWM/ Single Linear Controller*	28-QFN	6.27	4.17	2.90
ISL6506BCBZ-ND	Multiple Linear Power Controller with ACPI Control Interface*	8-SOIC	2.67	1.64	1.04
ISL6520ACBZ-ND	Single Synchronous Buck PWM Controller*	8-SOIC	2.79	1.71	1.08
ISL6520BCBZ-ND	Single Synchronous Buck PWM Controller*	8-SOIC	3.45	2.13	1.38
ISL6520CB-CT-ND	Single Synchronous Buck PWM Controller	8-SOIC	2.54	1.89	1.40
ISL6521CB-ND	PWM Buck DC/DC and Triple Linear Power Cont.	16-SOIC	7.05	5.13	3.39
ISL6521CBZ-ND	PWM Buck DC/DC and Triple Linear Power Cont.*	16-SOIC	7.05	5.13	3.39
ISL6522BCBZ-ND	Buck/Sync. Rectifier PWM Controller*	14-SOIC	4.59	2.87	1.97
ISL6526ACBZ-ND	Single Synchronous PWM Controller*	14-SOIC	3.39	2.10	1.36
ISL6526CB-CT-ND	Single Synchronous PWM Controller	14-SOIC	2.83	2.15	1.64
ISL6528CBZ-TCT-ND	Dual Reg. Standard Buck PWM/ Linear Pwr. Cont.*	8-SOIC	6.24	4.16	3.52
ISL6528CBZ-TTR-ND	Dual Reg. Standard Buck PWM/ Linear Pwr. Cont.*	8-SOIC	7200.00/2,500		
ISL6529CBZ-ND	Dual Reg. Sync. Rectified Buck PWM/ Linear Power Controller*	14-SOIC	6.24	4.16	2.88
ISL6530CB-CT-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	4.46	3.12	2.61
ISL6532CRZ-ND	ACPI Regulator/Controller for Dual Channel DDR Memory Systems*	20-QFN	6.30	4.36	3.03
ISL6534CRZR5229-ND	Dual PWM with Linear Controller*	32-QFN	3.54	2.20	1.47
ISL6534CVZR5299-ND	Dual PWM with Linear Controller*	24-TSSOP	6.50	4.50	3.12
ISL6535CBZ-TCT-ND	Synchronous Buck PWM Controller*	14-SOIC	3.77	2.34	1.95
ISL6537ACRZ-TCT-ND	ACPI Regulator/Controller*	28-QFN	7.48	5.09	4.34
ISL6537ACRZ-TTR-ND	ACPI Regulator/Controller*	28-QFN	14352.00/4,000		
ISL6537CRZ-ND	ACPI Regulator/Controller*	28-QFN	6.83	4.96	3.28
ISL6539CAZ-ND	Wide Input, Dual PWM Controller*	28-QSOP	5.27	3.42	2.34
ISL6539IAZ-ND	Wide Input, Dual PWM Controller*	28-QSOP	6.43	4.67	3.09
ISL6540ACRZ-ND	Single-Phase Buck PWM Controller*	28-QFN	4.06	2.52	1.68
ISL6540ACRZ-TCT-ND	Single-Phase Buck PWM Controller*	28-QFN	4.06	2.52	2.10
ISL6540ACRZ-TTR-ND	Single-Phase Buck PWM Controller*	28-QFN	10080.00/6,000		
ISL6540AIRZA-TCT-ND	Single-Phase Buck PWM Controller*	28-QFN	5.93	3.95	3.35
ISL6540AIRZA-TTR-ND	Single-Phase Buck PWM Controller*	28-QFN	16416.00/6,000		
ISL6545ACBZ-TCT-ND	Single Sync. Buck PWM Controller*	8-SOIC	2.79	1.71	1.40
ISL6545ACBZ-TTR-ND	Single Sync. Buck PWM Controller*	8-SOIC	2700.00/2,500		
ISL6545CBZ-TCT-ND	Single Sync. Buck PWM Controller*	8-SOIC	2.79	1.71	1.40
ISL6545CBZ-TTR-ND	Single Sync. Buck PWM Controller*	8-SOIC	2700.00/2,500		
ISL6545CBZ-TS2694CT-ND	Single Sync. Buck PWM Controller*	8-SOIC	3.06	1.89	1.56
ISL6545CBZ-TS2694TR-ND	Single Sync. Buck PWM Controller*	8-SOIC	3060.00/2,500		
ISL6545IBZ-ND	Single Sync. Buck PWM Controller*	8-SOIC	3.51	2.18	1.46
ISL6545IBZ-TCT-ND	Single Sync. Buck PWM Controller*	8-SOIC	3.51	2.18	1.82
ISL6545IBZ-TTR-ND	Single Sync. Buck PWM Controller*	8-SOIC	3630.00/2,500		
ISL6548ACRZA-ND	ACPI Regulator/Controller*	28-QFN	7.53	5.47	3.62
ISL6548ACRZA-TCT-ND	ACPI Regulator/Controller*	28-QFN	7.53	5.47	4.55
ISL6548ACRZA-TTR-ND	ACPI Regulator/Controller*	28-QFN	14448.00/4,000		
ISL6556BCBZ-TCT-ND	Multi-Phase PWM Controller*	28-SOIC	5.46	3.64	3.08
ISL6556BCBZ-TTR-ND	Multi-Phase PWM Controller*	28-SOIC	2520.00/1,000		
ISL6558CBZA-ND	Multi-Purpose Prec. Multi-Phase PWM Controller*	16-SOIC	4.92	3.14	2.15
ISL6558IRZ-ND	Multi-Purpose Prec. Multi-Phase PWM Controller*	20-QFN	5.17	3.29	2.26
ISL6559CBZ-ND	Multi-Phase PWM Controller*	28-SOIC	5.09	3.24	2.22
ISL6559CBZ-TCT-ND	Multi-Phase PWM Controller*	28-SOIC	5.09	3.24	2.73
ISL6559CBZ-TTR-ND	Multi-Phase PWM Controller*	28-SOIC	2220.00/1,000		
ISL6561CRZ-TCT-ND	Multi-Phase PWM Controller*	40-QFN	5.90	3.93	3.33
ISL6561CRZ-TTR-ND	Multi-Phase PWM Controller*	40-QFN	10896.00/4,000		
ISL6563IR-ND	2-Phase Buck PWM Controller	24-QFN	6.19	4.12	2.86
ISL6566CRZ-TR5184CT-ND	3-Phase Buck PWM Controller* ***NEW!***	40-QFN	5.35	3.47	2.93
ISL6566CRZ-TR5184TR-ND	3-Phase Buck PWM Controller* ***NEW!***	40-QFN	9504.00/4,000		
ISL6567CRZ-ND	Multipurpose 2-Phase Buck PWM Controller*	24-QFN	7.05	4.80	3.39
ISL6568CRZ-TR5184CT-ND	2-Phase Buck PWM Controller* ***NEW!***	32-QFN	4.70	2.94	2.48
ISL6568CRZ-TR5184TR-ND	2-Phase Buck PWM Controller* ***NEW!***	32-QFN	12096.00/6,000		
ISL6721ABZ-ND	Flexible Single Ended Current Mode PWM Cont.*	16-SOIC	7.18	4.88	3.45
ISL6721AVZ-ND	Flexible Single Ended Current Mode PWM Cont.*	16-TSSOP	7.18	4.88	3.45
ISL6729IBZ-ND	Low Cost Single Ended Current Mode PWM*	8-SOIC	2.67	1.64	1.04
ISL6741IVZ-ND	Flexible Double Ended Voltage and Current Mode PWM Controller*	16-TSSOP	4.20	2.70	1.80
ISL6742AAZA-ND	Advanced Double Ended PWM Controller*	16-QSOP	8.95	6.16	4.48
ISL6744AUZ-ND	Intermediate Bus PWM Controller*	8-MSOP	4.37	2.81	1.88
ISL6752AAZA-ND	ZVS Full-Bridge Current Mode PWM Controller*	16-QSOP	7.18	4.88	3.45
ISL6753AAZA-ND	ZVS Full-Bridge PWM Controller*	16-QSOP	7.18	4.88	3.45
ISL6840IUZ-TCT-ND	Single-Ended PWM Controller*	8-MSOP	3.63	2.25	1.88
ISL6840IUZ-TTR-ND	Single-Ended PWM Controller*	8-MSOP	3750.00/2,500		
ISL6843IUZ-ND	Adj. Freq., LP, PWM Current Mode Controller*	8-MSOP	3.42	2.11	1.37
ISL8103IRZ-TCT-ND	Three-Phase Buck PWM Controller*	40-QFN	6.46	4.52	3.77
ISL8105AIBZ-ND	Single-Phase Sync. Buck Converter PWM Cont.*	8-SOIC	3.33	2.06	1.34
ISL8112IRZ-ND	Dual Output, Main Power Supply Controller*	32-QFN	5.69	3.79	2.63
ISL8118CRZ-ND	Single Phase PWM Controller*	28-QFN	4.21	2.61	1.74
ISL8118IRZ-ND	Single Phase PWM Controller*	28-QFN	4.81	3.07	2.10
ISL8120CRZ-ND	Dual Phase Sync Buck PWM Controller*	32-QFN	9.31	6.41	4.66
ISL8120IRZ-ND	Dual Phase Sync Buck PWM Controller*	32-QFN	9.31	6.41	4.66
ISL8500IRZ-ND	2A Standard Buck PWM Regulator*	12-DFN	5.27	3.42	2.34
ISL8501IRZ-ND	Triple Output Controller with Buck PWM*	24-QFN	5.36	3.57	2.48
ISL8510IRZ-ND	Dual Output Controller with Buck PWM*	24-QFN	5.24	3.40	2.33
ISL8723IRZ-ND	Power Sequencing Controller*	24-QFN	5.80	3.86	2.68
ISL8841AABZ-TCT-ND	Single-Ended PWM Controller*	8-SOIC	3.39	2.10	1.73
ISL8841AABZ-TTR-ND	Single-Ended PWM Controller*	8-SOIC	3390.00/2,500		
ISL8843ABZ-ND	Single-Ended PWM Controller*	8-SOIC	3.06	1.89	1.23
ISL9105IRZ-TCT-ND	600mA, 1.6MHz High Efficiency Sync. Buck Reg.*	8-DFN	4.56	2.86	2.41
ISL9105IRZ-TTR-ND	600mA, 1.6MHz High Efficiency Sync. Buck Reg.*	8-DFN	11736.00/6,000		
ISL9106IRZ-TCT-ND	1.2A, 1.6MHz High Efficiency Sync. Buck Reg.*	10-DFN	4.82	3.01	2.54
ISL9106IRZ-TTR-ND	1.2A, 1.6MHz High Efficiency Sync. Buck Reg.*	10-DFN	12384.00/6,000		
ISL9440AIRZ-ND	Step-Down PWM/Single Linear Controller*	32-QFN	9.48	6.89	4.55
ISL9440IRZ-ND	Step-Down PWM/Single Linear Controller*	32-QFN	10.00	7.00	5.04
ISL9441IRZ-ND	Step-Down PWM/Single Linear Controller*	32-QFN	10.00	7.00	5.04
ISL9500CVZ-TCT-ND	Precision Multi-Phase Buck PWM Cont.*	38-TSSOP	4.87	3.05	2.57
ISL9500CVZ-TTR-ND	Precision Multi-Phase Buck PWM Cont.*	38-TSSOP	5220.00/2,500		
ISL9501CVZ-TCT-ND	Precision Single-Phase Buck PWM Cont.*	38-TSSOP	4.21	2.61	2.28
ISL9501CVZ-TTR-ND	Precision Single-Phase Buck PWM Cont.*	38-TSSOP	4350.00/2,500		
ISL9502CRZ-TCT-ND	2-Phase PWM Controller*	48-QFN	5.35	3.47	2.93
ISL9502CRZ-TTR-ND	2-Phase PWM Controller*	48-QFN	9504.00/4,000		
ISL54100CQZ-ND	4:1 TMDS Regenerator with Multiplexer*	128-MQFP	47.50	34.55	22.80
ISL54101ACQZ-ND	1:1 TMDS Regenerator with Multiplexer*	128-MQFP	23.75	17.27	11.40
ISL54102ACQZ-ND	2:1 TMDS Regenerator with Multiplexer*	128-MQFP	35.63	25.91	17.10
ISL54102CQZ-ND	TMDS Regenerator with Multiplexers*	128-MQFP	35.63	25.91	17.10
ISL88550AIRZ-ND	Synchronous Step-Down Controller*	28-QFN	6.43	4.45	3.09
ISL97516IUZ-TKCT-ND	600kHz/1.2MHz PWM Step-Up Regulator*	8-MSOP	5.49	3.66	3.10
ISL97516IUZ-TKTR-ND	600kHz/1.2MHz PWM Step-Up Regulator*	8-MSOP	2532.00/1,000		
ISL97519AIUZ-ND	600kHz/1.2MHz PWM Step-Up Regulator*	8-MSOP	5.36	3.57	2.48
ISL97631IHTZ-T7CT-ND	White LED Boost Regulator*	6-TSOT	3.89	2.42	2.01
ISL97631IHTZ-T7TR-ND	White LED Boost Regulator*	6-TSOT	4824.00/3,000		

intersil PARALLEL EEPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X28HC64D-90-ND	64K (8Kx8) CMOS EEPROM 90nS	28-CDip	26.88	14.68	13.89

intersil Digi-Reel® POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HIP1011ACBZA-ND	PCI Hot Plug Controller*	16-SOIC	6.45	4.30	2.98
ICL7660AIBAZA-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.54	1.53	.94
ICL7665SACPA-ND	CMOS MPU Over/Under Voltage Detector	8-Dip	4.20	2.70	1.80
ICL7665SACPAZ-ND	CMOS MPU Over/Under Voltage Detector*	8-Dip	3.63	2.25	1.50
ICL7665SAIBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	4.00	2.49	1.66
ICL7665SAIBAZA-TCT-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	4.12	2.56	2.13

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

intersil DigiReel® *(Cont.)* POWER MANAGEMENT

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
ICL7665SCBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	2.79	1.71	1.08
ICL7665SCPA-ND	CMOS MPU Over/Under Voltage Detector	8-Dip	3.77	2.34	1.56
ICL7665SCPAZ-ND	CMOS MPU Over/Under Voltage Detector*	8-Dip	3.24	2.00	1.30
ICL7665SIBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.83	2.38	1.59
ISL6123IRZA-ND	4-Channel Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6131IRZA-ND	4-Supply Multiple Voltage Supervisor*	24-QFN	5.67	3.78	2.62
ISL6132IRZA-ND	2V Supervisor Monitoring UV/OV Conditions*	24-QFN	5.67	3.78	2.62
ISL6140CBZ-ND	Negative Voltage Hot Plug Controller*	8-SOIC	4.48	2.80	1.92
ISL6141CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.20	3.46	2.40
ISL6151CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.20	3.46	2.40
ISL6161CBZA-ND	Hot Swap Dual Power Distribution Controller*	14-SOIC	5.67	3.78	2.62
ISL6161CBZA-TCT-ND	Hot Swap Dual Power Distribution Controller*	14-SOIC	5.67	3.78	3.20
ISL6161CBZA-TTR-ND	Hot Swap Dual Power Distribution Controller*	14-SOIC	6540.00/2,500		
ISL6173DRZA-ND	Dual Low Voltage Hot Swap Controller*	28-QFN	8.45	6.15	4.06
ISL6251HRZ-ND	Multi-Chemistry Battery Charger Controller*	28-QFN	7.13	5.18	3.42
ISL6253HAZ-ND	Highly Integrated Battery Charger for Notebook Computers*	28-QSOP	5.59	3.72	2.58
ISL6255HRZ-ND	Highly Integrated Battery Charger with Auto Power Source Selector for Notebook Computers*	28-QFN	6.20	4.90	3.93
ISL6291-1CRZ-ND	Li-Ion/Li-Pol Linear Battery Charger*	16-QFN	3.83	2.38	1.59
ISL6292-2CR3Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	10-DFN	2.69	1.60	1.01
ISL6292-2CR5Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.69	1.60	1.01
ISL6292-2CR5Z-TCT-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.69	1.60	1.31
ISL6292BCRZ-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.69	1.60	1.01
ISL6292DCRZ-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	3.30	2.04	1.32
ISL6293-2CRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.48	2.16	1.44
ISL6294IRZ-CT-ND	High Input Voltage Charger*	8-DFN	3.24	2.00	1.65
ISL6294IRZ-TR-ND	High Input Voltage Charger*	8-DFN	7776.00/6,000		
ISL6297CRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.69	1.60	1.31
ISL6297CRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	6048.00/6,000		
ISL6298-2CR3Z-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	3.24	2.00	1.30
ISL6298-2CR4Z-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	3.24	2.00	1.30
ISL6299AIRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.48	2.16	1.44
ISL6299IRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	2.50	1.90	1.45
ISL6524CBZ-ND	VRM8.5 PWM and Triple Linear Power System Controller*	28-SOIC	6.40	4.43	3.08
ISL6524CBZ-TCT-ND	VRM8.5 PWM and Triple Linear Power System Controller*	28-SOIC	6.40	4.43	3.76
ISL6524CBZ-TTR-ND	VRM8.5 PWM and Triple Linear Power System Controller*	28-SOIC	3072.00/1,000		
ISL6524CBZA-TCT-ND	VRM8.5 PWM and Triple Linear Power System Controller*	28-SOIC	6.40	4.43	3.76
ISL6524CBZA-TTR-ND	VRM8.5 PWM and Triple Linear Power System Controller*	28-SOIC	3072.00/1,000		
ISL8700AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8701AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8702AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL24010IVZ-TCT-ND	Octal Voltage Level Shifter*	20-TSSOP	7.92	5.61	4.79
ISL24016IRTZ-T13CT-ND	7-Ch. High Performance Level Translator*	32-TQFN	7.20	4.90	4.18
ISL24016IRTZ-T13TR-ND	7-Ch. High Performance Level Translator*	32-TQFN	8640.00/2,500		
ISL88001IE16Z-TKCT-ND	1.58V, Ultra Low Power Voltage Supervisor*	SC-70	1.82	1.04	.84
ISL88001IE16Z-TKTR-ND	1.58V, Ultra Low Power Voltage Supervisor*	SC-70	624.00/1,000		
ISL88001IE29Z-TKCT-ND	2.92V, Ultra Low Power Voltage Supervisor*	SC-70	1.82	1.04	.84
ISL88001IE29Z-TKTR-ND	2.92V, Ultra Low Power Voltage Supervisor*	SC-70	624.00/1,000		
ISL88001IE31Z-TKCT-ND	3.09V, Ultra Low Power Voltage Supervisor*	SC-70	1.82	1.04	.84
ISL88001IE31Z-TKTR-ND	3.09V, Ultra Low Power Voltage Supervisor*	SC-70	624.00/1,000		
ISL88001IH26Z-TKCT-ND	2.63V, Ultra Low Power Voltage Supervisor*	SOT-23	1.82	1.04	.84
ISL88001IH26Z-TKTR-ND	2.63V, Ultra Low Power Voltage Supervisor*	SOT-23	624.00/1,000		
ISL88001IH29Z-TKCT-ND	2.92V, Ultra Low Power Voltage Supervisor*	SOT-23	1.82	1.04	.84
ISL88001IH29Z-TKTR-ND	2.92V, Ultra Low Power Voltage Supervisor*	SOT-23	624.00/1,000		
ISL88001IH46Z-TKCT-ND	4.64V, Ultra Low Power Voltage Supervisor*	SOT-23	1.82	1.04	.84
ISL88001IH46Z-TKTR-ND	4.64V, Ultra Low Power Voltage Supervisor*	SOT-23	624.00/1,000		
ISL88002IE29Z-TKCT-ND	2.92V, Ultra Low Power Voltage Supervisor*	SC-70	1.82	1.04	.84
ISL88002IE29Z-TKTR-ND	2.92V, Ultra Low Power Voltage Supervisor*	SC-70	624.00/1,000		
ISL88002IH22Z-TKCT-ND	2.19V, Ultra Low Power Voltage Supervisor*	SOT-23	1.82	1.04	.84
ISL88002IH22Z-TKTR-ND	2.19V, Ultra Low Power Voltage Supervisor*	SOT-23	624.00/1,000		
ISL88002IH23Z-TKCT-ND	2.32V, Ultra Low Power Volt. Supervisor*	SOT-23	1.82	1.04	.84
ISL88002IH23Z-TKTR-ND	2.32V, Ultra Low Power Volt. Supervisor*	SOT-23	624.00/1,000		
ISL88002IH26Z-TKCT-ND	2.63V, Ultra Low Power Volt. Supervisor*	SOT-23	1.82	1.04	.84
ISL88002IH26Z-TKTR-ND	2.63V, Ultra Low Power Volt. Supervisor*	SOT-23	624.00/1,000		
ISL88002IH29Z-TKCT-ND	2.92V, Ultra Low Power Volt. Supervisor*	SOT-23	1.82	1.04	.84
ISL88002IH29Z-TKTR-ND	2.92V, Ultra Low Power Volt. Supervisor*	SOT-23	624.00/1,000		
ISL88003IE17Z-TKCT-ND	1.67V, Ultra Low Power Volt. Supervisor*	SC-70	1.82	1.04	.84
ISL88003IE17Z-TKTR-ND	1.67V, Ultra Low Power Volt. Supervisor*	SC-70	624.00/1,000		
ISL88003IE31Z-TKCT-ND	3.09V, Ultra Low Power Volt. Supervisor*	SC-70	1.82	1.04	.84
ISL88003IE31Z-TKTR-ND	3.09V, Ultra Low Power Volt. Supervisor*	SC-70	624.00/1,000		
ISL88003IH17Z-TKCT-ND	1.67V, Ultra Low Power Volt. Supervisor*	SOT-23	1.82	1.04	.84
ISL88003IH17Z-TKTR-ND	1.67V, Ultra Low Power Volt. Supervisor*	SOT-23	624.00/1,000		
ISL88003IH31Z-TKCT-ND	3.09V, Ultra Low Power Volt. Supervisor*	SOT-23	1.82	1.04	.84
ISL88003IH31Z-TKTR-ND	3.09V, Ultra Low Power Volt. Supervisor*	SOT-23	624.00/1,000		
ISL88011IH523Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.57	1.55	1.25
ISL88011IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.57	1.55	1.25
ISL88011IH531Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	948.00/1,000		
ISL88011IH546Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.57	1.55	1.25
ISL88011IH546Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	948.00/1,000		
ISL88012IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.76	1.70	1.38
ISL88012IH531Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	1068.00/1,000		
ISL88012IH546Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.76	1.70	1.38
ISL88013IH529Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.64	1.62	1.32
ISL88013IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.64	1.62	1.32
ISL88014IH5Z-TKCT-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	2.57	1.55	1.25
ISL88014IH5Z-TKTR-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	948.00/1,000		
ISL88017IHTZ-TKCT-ND	2.15V-4.65V Pin Selectable Voltage Supervisor*	TSOT23-6	2.76	1.70	1.38
ISL88017IHTZ-TKTR-ND	2.15V-4.65V Pin Selectable Voltage Supervisor*	TSOT23-6	1068.00/1,000		
ISL88031IU8EAZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.89	2.42	2.01
ISL88031IU8EAZ-TKTR-ND	Quintuple Voltage Monitor*	8-MSOP	1608.00/1,000		
ISL88031IU8ECZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.89	2.42	2.01
ISL88031IU8ECZ-TKTR-ND	Quintuple Voltage Monitor*	8-MSOP	1608.00/1,000		
ISL88031IUHFZS2711-ND	Quintuple Voltage Monitor*	8-MSOP	3.89	2.42	1.61

intersil DigiReel® *(Cont.)* POWER MANAGEMENT

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
ISL88731AHRZ-ND	Li-Ion Battery Charger*	28-TQFN	8.78	6.04	4.40
ISL9200IRZ-TCT-ND	Li-Ion Charging System Safety Circuit*	12-DFN	3.48	2.16	1.80
ISL9200IRZ-TTR-ND	Li-Ion Charging System Safety Circuit*	12-DFN	8640.00/6,000		
ISL9203CRZR5220-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.54	1.53	.94
ISL9204IRZ-TCT-ND	High Input Voltage Charger*	8-DFN	3.24	2.00	1.65
ISL9205DIRZ-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.34	1.41	.87
ISL9208IRZ-ND	Multi-Cell Li-Ion Battery Pack OCP/Analog Front End*	32-QFN	2.56	1.52	.96
ISL9209BIRZ-TCT-ND	Li-Ion Charging System Safety Circuit*	12-TDFN	1.76	.98	.79
ISL9209BIRZ-TTR-ND	Li-Ion Charging System Safety Circuit*	12-TDFN	3528.00/6,000		
ISL9211IRU58XZ-TCT-ND	Li-Ion Battery Charge Monitor*	8-µTDFN	2.18	1.29	1.04
ISL9211IRU58XZ-TTR-ND	Li-Ion Battery Charge Monitor*	8-µTDFN	2376.00/3,000		
ISL9211IRU68XZ-TCT-ND	Li-Ion Battery Charge Monitor*	8-µTDFN	2.18	1.29	1.04
ISL9211IRU68XZ-TTR-ND	Li-Ion Battery Charge Monitor*	8-µTDFN	2376.00/3,000		
ISL9212IRZ-TCT-ND	Li-Ion Charging System Safety Circuit*	12-TDFN	1.87	1.10	.88
ISL9212IRZ-TTR-ND	Li-Ion Charging System Safety Circuit*	12-TDFN	3960.00/6,000		
ISL9214AIRZ-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	3.54	2.19	1.42
ISL9216IRZ-ND	Multi-Cell Li-Ion Battery Over-Current Protection/Analog Front End Chip Set*	32-QFN	7.90	5.38	3.80
ISL9222AIRTZ-TCT-ND	Li-Ion High Input Volt. Battery Charger*	8-TDFN	3.80	2.36	1.97
ISL9222AIRTZ-TTR-ND	Li-Ion High Input Volt. Battery Charger*	8-TDFN	9432.00/6,000		
ISL94200IRZ-ND	Multi-Cell Li-Ion Battery Pack Over-Current Protection/Analog Front End*	24-QFN	7.25	5.27	3.48
ISL94201IRZ-ND	Multi-Cell Li-Ion Batt. Pack Analog Front End*	24-QFN	7.00	5.09	3.36

intersil DigiReel® REALTIME CLOCKS

RealTime Clock/Calendars with dual alarms (programmable frequency output X1227 and X1228 only), and on chip oscillator compensation. The X1227 and X1228 are also CPU Supervisor circuits with two polled alarms. The clock and alarm registers allow the clock to operate without loss of accuracy, even during read and write operations. The clock/calendar provides functionality that is controllable and readable through a set of registers. The clock, using a low-cost 32.768kHz crystal input, accurately tracks the time in seconds, minutes, hours, date, day, month and years. 2-wire interface interoperable with 512 x 8 bits of I^{2}C EEprom. The Supervisor circuits come in 4 reset voltages.

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
ISL1208IB8Z-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	2.67	1.64	1.04
ISL1208IB8Z-TKCT-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	2.67	1.64	1.34
ISL1208IB8Z-TKTR-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	1032.00/1,000		
ISL1208IU8Z-ND	Low Power RTC with Battery Backed SRAM*	8-MSOP	3.35	2.06	1.30
ISL1209IU10Z-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.57	2.22	1.48
ISL1209IU10Z-TKCT-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.57	2.22	1.85
ISL1209IU10Z-TKTR-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	1476.00/1,000		
ISL1219IUZ-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.63	2.25	1.50
ISL1220IUZ-TCT-ND	LP RTC with Battery Backed SRAM*	10-MSOP	3.24	2.00	1.65
ISL1220IUZ-TTR-ND	LP RTC with Battery Backed SRAM*	10-MSOP	3240.00/2,500		
ISL1221IUZ-TCT-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.86	2.40	2.00
ISL1221IUZ-TTR-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3990.00/2,500		
ISL12020MIRZ-ND	Low Power RTC with Battery Backed SRAM*	20-DFN	6.63	4.82	3.18
ISL12022IBZ-ND	Real Time Clock/Calendar with Battery Backed SRAM/Temp Sensor*	8-SOIC	4.76	2.98	2.04
ISL12024IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.59	2.87	2.42
ISL12024IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4920.00/2,500		
ISL12025IBZ-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.98	3.17	2.18
ISL12026IBZ-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	3.86	2.40	1.60
ISL12026IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	3.86	2.40	2.00
ISL12026IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	3990.00/2,500		
ISL12026IVZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4.00	2.49	2.07
ISL12026IVZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4140.00/2,500		
ISL12027IB27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.40	2.83	2.36
ISL12027IB27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4710.00/2,500		
ISL12028IV27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	4.84	3.08	2.60
ISL12028IV27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	5280.00/2,500		
ISL12030IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.84	3.03	2.56
ISL12030IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	5190.00/2,500		
ISL12032IVZ-TCT-ND	RTC LP with Battery Backed SRAM*	14-TSSOP	5.29	3.43	2.90
ISL12032IVZ-TTR-ND	RTC LP with Battery Backed SRAM*	14-TSSOP	5880.00/2,500		
X1227S8IZ-ND	RTC, 4.25-4.51V CPU Supervisor with WDT EE, Reset Low*	8-SOIC	7.97	5.65	3.99
X1228S14IZ-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low*	14-SOIC	8.33	5.90	4.17
X1228S14-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.97	5.65	3.99

intersil DigiReel® SPECIALIZED INTEGRATED CIRCUITS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
EL7900ILCZ-T7CT-ND	Ambient Light Photo Detect IC*	5-ODFN	2.18	1.25	1.01
EL7900ILCZ-T7TR-ND	Ambient Light Photo Detect IC*	5-ODFN	2304.00/3,000		
ISL29001IROZ-T7CT-ND	Light-to-Digital Sensor*	6-ODFN	3.60	2.24	1.86
ISL29001IROZ-T7TR-ND	Light-to-Digital Sensor*	6-ODFN	4464.00/3,000		
ISL29002IROZ-T7CT-ND	Light-to-Digital I^{2}C Sensor*	8-ODFN	3.60	2.24	1.86
ISL29002IROZ-T7TR-ND	Light-to-Digital I^{2}C Sensor*	8-ODFN	1488.00/1,000		
ISL29003IROZ-T7CT-ND	Light-to-Digital Output Sensor*	6-ODFN	3.18	1.97	1.62
ISL29003IROZ-T7TR-ND	Light-to-Digital Output Sensor*	6-ODFN	3816.00/3,000		
ISL29004IROZ-T7CT-ND	Light-to-Digital Output Sensor*	8-ODFN	3.33	2.06	1.70
ISL29006IROZ-T7CT-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1.89	1.08	.87
ISL29006IROZ-T7TR-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1944.00/3,000		
ISL29007IROZ-T7CT-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1.89	1.08	.87
ISL29007IROZ-T7TR-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1944.00/3,000		
ISL29008IROZ-T7CT-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1.89	1.08	.87
ISL29008IROZ-T7TR-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	1944.00/3,000		
ISL29009IROZ-T7CT-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	2.24	1.33	1.08
ISL29009IROZ-T7TR-ND	Light-to-Current Silicon Optical Sensor*	6-ODFN	2448.00/3,000		
ISL29010IROZ-T7CT-ND	Light-to-Digital Output Sensor*	6-ODFN	3.83	2.38	1.98
ISL29010IROZ-T7TR-ND	Light-to-Digital Output Sensor*	6-ODFN	4752.00/3,000		
ISL29013IROZ-T7CT-ND	Light-to-Digital Output Sensor*	6-ODFN	3.83	2.38	1.98
ISL29013IROZ-T7TR-ND	Light-to-Digital Output Sensor*	6-ODFN	4752.00/3,000		
ISL29101IROZ-T7CT-ND	Light-to-Voltage Silicon Optical Sensor*	6-ODFN	2.66	1.58	1.29

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(Continued)

SPECIALIZED INTEGRATED CIRCUITS (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL29101IROZ-T7TR-ND	Light-to-Voltage Silicon Optical Sensor*	6-ODFN	2988.00/3,000		
ISL29102IROZ-T7CT-ND	Light-to-Voltage Optical Sensor*	6-ODFN	2.28	1.37	1.11
ISL29102IROZ-T7TR-ND	Light-to-Voltage Optical Sensor*	6-ODFN	2520.00/3,000		
ISL45041IRZ-ND	I^{2}C LCD Module Calibrator*	8-DFN	3.65	2.27	1.52
ISL45042IRZ-ND	LCD Module Calibrator*	8-DFN	3.42	2.11	1.37
ISL55100AIRZ-ND	Quad 18V Pin Electronics Driver/ Window Comparator*	72-QFN	25.50	21.25	15.30
ISL55100AIRZ-TCT-ND	Quad 18V Pin Electronics Driver/ Window Comparator*	72-QFN	25.58	21.32	18.33
X80200V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	5.93	3.95	3.54
X80201V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80202V20I-ND	1.7V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80203V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80204V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X96010V14IZ-ND	Sensor Conditioner with Dual Look Up Table Memory and DAC*	14-TSSOP	6.55	4.54	3.15
X96012V14IZ-ND	Sensor Conditioner with DAC*	14-TSSOP	6.88	4.76	3.30

SWITCHES, ARRAYS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD22M3494MQZ-ND	16x8x1 BiMOS-E Crosspoint Switch*	44-PLCC	10.98	7.68	5.54
DG401DYZ-TCT-ND	Mono CMOS Analog Switch*	16-SOIC	2.79	1.71	1.40
DG401DYZ-TTR-ND	Mono CMOS Analog Switch*	16-SOIC	2700.00/2,500		
DG403DYZ-ND	Mono CMOS Analog Switch*	16-SOIC	1.89	1.08	.65
DG406DYZ-ND	Single 16-Channel CMOS Analog Mux*	28-SOIC	6.60	4.57	3.17
DG411DJZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-PDip	2.34	1.41	.87
DG411DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	2.18	1.29	.80
DG412DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	2.24	1.33	.82
DG413DJZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-Dip	2.37	1.43	.88
DG441DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	2.37	1.43	.88
DG442DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	2.82	1.73	1.10
DG444DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	2.41	1.45	.89
DG445DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	2.37	1.43	.88
EL4544IGZ-ND	Triple 16x5 Diff. to Single-Ended Crosspoint Switch*	356-BGA	71.25	51.82	34.20
HFA3096BZ-ND	Ultra High Freq. Transistor Array*	16-SOIC	5.01	3.19	2.19
HFA3101B-ND	Gilbert Cell Multiplier, Ultra High Freq.	8-SOIC	6.40	4.26	2.96
HFA3101BZ-ND	Gilbert Cell Multiplier Ultra High Freq.*	8-SOIC	6.40	4.26	2.96
HFA3102BZ96CT-ND	Dual Long-Tailed Pair Transistor Array*	14-SOIC	4.23	2.72	2.27
HFA3102BZ96TR-ND	Dual Long-Tailed Pair Transistor Array*	14-SOIC	4530.00/2,500		
HFA3127B-ND	NPN Ultra High Freq. Transistor Array	16-SOIC	6.40	4.26	2.96
HFA3134IHZ96CT-ND	NPN Ultra High Freq. Matched Pair Transistor*	SOT23-6	4.76	2.98	2.51
HFA3134IHZ96TR-ND	NPN Ultra High Freq. Matched Pair Transistor*	SOT23-6	6120.00/3,000		
HI3-0201HS-5IS-ND	Quad SPST, High Speed CMOS Analog Switch	16-Dip	9.12	6.27	4.56
HI3-5043-5Z-ND	Dual SPDT CMOS Analog Switch*	16-PDip	6.88	4.76	3.30
HI3-5051-5-ND	Dual SPDT CMOS Analog Switch	16-Dip	19.57	13.70	9.87
HI9P0201-5Z96CT-ND	Dual/Quad SPST CMOS Analog Switch*	16-SOIC	6.29	4.19	3.55
HI9P0201-5Z96TR-ND	Dual/Quad SPST CMOS Analog Switch*	16-SOIC	7260.00/2,500		
ICL7673CPAZ-ND	Auto Battery Back-Up Switch*	8-PDip	2.21	1.31	.81
ICL7673CBAZA-TCT-ND	Auto Battery Back-Up Switch*	8-SOIC	2.79	1.71	1.40
ICL7673CBAZA-TTR-ND	Auto Battery Back-Up Switch*	8-SOIC	2700.00/2,500		
ISL43L111IHZ-TCT-ND	Ultra Low On-Resistance, SPST Analog Switch*	SC70-5	1.82	1.04	.84
ISL43L120IU-ND	Single Supply, Dual SPST Analog Switch, N/O	8-MSOP	3.77	2.34	1.56
ISL43L210IHZ-TCT-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1.82	1.04	.84
ISL43L210IHZ-TTR-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1872.00/3,000		
ISL8484IRZ-ND	Dual SPDT Analog Switch*	10-DFN	2.98	1.83	1.16
ISL8391IBZ-ND	Low Volt., Single and Dual Supply, Quad SPST, Analog Switch*	16-SOIC	5.20	3.46	2.40
ISL8392IBZ-ND	Low-Voltage, Single and Dual Supply, Quad SPST Analog Switch*	16-SOIC	5.20	3.46	2.40
ISL8499IRZ-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-QFN	4.32	2.69	1.79
ISL43111IH-CT-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.84	1.35	.98
ISL43112IB-ND	Low Voltage Dual Supply, SPST, High Perf. Analog Switch	8-SOIC	2.69	1.60	1.01
ISL43120IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-8	1.69	.94	.79
ISL43120IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.90	1.12	.90
ISL43120IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	2016.00/3,000		
ISL43121IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.90	1.12	.90
ISL43121IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	2016.00/3,000		
ISL43141IRZ-ND	Low Voltage Single Supply, Quad SPST High Perf. Analog Switch*	16-QFN	2.24	1.33	.82
ISL43141IVZ-ND	Low Voltage Single Supply, Quad SPST High Perf. Analog Switch*	16-TSSOP	2.18	1.29	.80
ISL43144IR-ND	Low Voltage Quad SPST High Perf. Analog Switch	16-QFN	2.54	1.53	.94
ISL43210IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	1.90	1.12	.90
ISL43210IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	2016.00/3,000		
ISL43240IAZ-ND	Low Voltage, Single and Dual Supply, Quad SPDT High Perf., Analog Switch*	20-SSOP	4.51	2.82	1.94
ISL43240IR-ND	Low Voltage Single and Dual Supply, Quad SPDT, High Perf. Analog Switch	20-QFN	4.70	2.94	2.02
ISL43640IR-ND	Low Voltage, Single Supply, 4-to-1 Mux, High Perf. Analog Switch	16-QFN	2.76	1.70	1.07
ISL43840IRZ-ND	Low Voltage, Dual Supply, 4-to-1 Mux Analog Switch*	20-QFN	3.71	2.31	1.54
ISL5123IHZ-TCT-ND	Low Voltage, Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	2.34	1.41	1.14
ISL5123IHZ-TTR-ND	Low Voltage, Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	2592.00/3,000		
ISL54050IRUZ-TCT-ND	Ultra Low On-Resistance, Single Supply, Dual SPDT Analog Switch*	10-µTQFN	3.65	2.27	1.89
ISL54050IRUZ-TTR-ND	Ultra Low On-Resistance, Single Supply, Dual SPDT Analog Switch*	10-µTQFN	4536.00/3,000		
ISL54200IRUZ-TCT-ND	2.0 High/Full Speed Multiplexer*	10-TQFN	2.95	1.81	1.48
ISL54200IRUZ-TTR-ND	2.0 High/Full Speed Multiplexer*	10-TQFN	3420.00/3,000		
ISL54200IRZ-ND	2.0 High/Full Speed Multiplexer*	10-TDFN	2.79	1.71	1.08

SWITCHES, ARRAYS (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL54205BIRTZ-ND	MP3/USB 2.0 High Speed Switch*	10-TDFN	2.98	1.83	1.16
ISL54208IRZ-ND	Dual SPDT, USB/CVBS Audio Switch*	10-TDFN	3.30	2.04	1.32
ISL54210IRTZ-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TDFN	2.98	1.83	1.16
ISL54210IRUZ-TCT-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TQFN	3.00	1.85	1.53
ISL54210IRUZ-TTR-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TQFN	3600.00/3,000		
ISL54211IRTZ-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TDFN	2.98	1.83	1.16
ISL54211IRUZ-TCT-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TQFN	3.00	1.85	1.53
ISL54211IRUZ-TTR-ND	Dual SPDT, MP3/USB 2.0 HS Switch*	10-TQFN	3600.00/3,000		
ISL54400IRUZ-TCT-ND	Low Voltage, Dual SPDT, USB/Audio Switch*	10-TQFN	3.03	1.87	1.55
ISL54400IRUZ-TTR-ND	Low Voltage, Dual SPDT, USB/Audio Switch*	10-TQFN	3636.00/3,000		
ISL54401IRZ-ND	Dual SPDT, USB Audio Switch*	10-TDFN	2.91	1.79	1.13
ISL54402IRZ-ND	Dual SPDT, USB Audio Switch*	10-TDFN	2.44	1.47	.90
ISL54405IRTZ-ND	Dual SPDT, MP3/USB 2.0 2:1 Multiplexer*	16-TQFN	2.41	1.45	.89
ISL54405IRUZ-TCT-ND	Dual SPDT, MP3/USB 2.0 2:1 Multiplexer*	16-µTQFN	2.34	1.41	1.14
ISL54405IRUZ-TTR-ND	Dual SPDT, MP3/USB 2.0 2:1 Multiplexer*	16-µTQFN	2592.00/3,000		
ISL54405IVZ-ND	Dual SPDT, MP3/USB 2.0 2:1 Multiplexer*	16-TSSOP	2.66	1.58	1.00
ISL54406IRTZ-ND	Dual SPST Switch with Mute*	10-TDFN	1.87	1.10	.66
ISL54406IRTZ-TCT-ND	Dual SPST Switch with Mute*	10-TDFN	2.01	1.18	.95
ISL54406IRTZ-TTR-ND	Dual SPST Switch with Mute*	10-TDFN	4248.00/6,000		
ISL54406IRUZ-TCT-ND	Dual SPST Switch with Mute*	10-µTQFN	1.66	.92	.74
ISL54406IRUZ-TTR-ND	Dual SPST Switch with Mute*	10-µTQFN	1656.00/3,000		
ISL76120ARTZ-ND	Automotive Grade Dual 2:1 Multiplexer*	10-TDFN	2.79	1.71	1.08
ISL83699IRZ-TCT-ND	Ultra Low On-Resistance, Low Voltage Single Supply, Quad SPDT Analog Switch*	16-QFN	4.26	2.74	2.28
ISL84052IAZ-ND	Low Voltage, Single and Dual Supply, Triple SPDT Analog Switch*	16-QSOP	2.37	1.43	.88
ISL84052IBZ-ND	Low Voltage, Single and Dual Supply, Triple SPDT Analog Switch*	16-SOIC	2.21	1.31	.81
ISL84053IBZ-ND	Low Voltage, Single and Dual Supply, Triple SPDT, Analog Switch*	16-SOIC	2.21	1.31	.81
ISL84467IRTZ-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TQFN	1.73	.96	.58
ISL84467IRTZ-TCT-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TQFN	1.75	1.00	.80
ISL84467IRTZ-TTR-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TQFN	3600.00/6,000		
ISL84514IHZ-TCT-ND	Low Voltage, Single Supply, SPST Analog Switch*	SOT-23-5	2.24	1.33	1.08
ISL84514IHZ-TTR-ND	Low Voltage, Single Supply, SPST Analog Switch*	SOT-23-5	2448.00/3,000		
ISL84515IH-CT-ND	Low Voltage Single Supply, SPST Analog Switch	SOT-23-5	1.94	1.14	.96
ISL84516IH-CT-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84517IHZ-TCT-ND	Low Voltage, Dual Supply, SPST Analog Switch*	SOT-23-5	2.24	1.33	1.08
ISL84517IHZ-TTR-ND	Low Voltage, Dual Supply, SPST Analog Switch*	SOT-23-5	2448.00/3,000		
ISL84522IVZ-ND	Low Voltage, Single and Dual Supply, Quad SPST, Analog Switch*	16-TSSOP	2.64	1.62	1.02
ISL84544CPZ-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	8-Dip	1.90	1.12	.68
ISL84581IAZ-ND	Low Voltage, Single and Dual Supply, 8:1 Mux*	16-QSOP	2.44	1.47	.90
ISL84684IR-ND	Ultra Low ON-Resistance, Single Supply, Dual SPDT Analog Switch	10-DFN	2.56	1.52	1.07
ISL84684IRZ-ND	Dual SPDT Analog Switch*	10-DFN	2.98	1.83	1.16
ISL84714IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch	SC70-6	1.61	1.19	.86
ISL84714IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1.82	1.04	.84
ISL84714IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1872.00/3,000		
ISL84715IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
ISL84715IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.82	1.04	.84
ISL84716IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.59	.86	.72
ISL84716IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.82	1.04	.84
ISL84716IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1872.00/3,000		
ISL84762IUZ-ND	Low Voltage, Dual SPDT Analog Switch*	10-MSOP	2.79	1.71	1.08
ISL84780IRZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-QFN	4.32	2.69	1.79
ISL84780IRZ-TCT-ND	Low Voltage, Quad 2:1 Multiplexer*	16-QFN	4.26	2.74	2.28
ISL84780IVZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-TSSOP	4.15	2.58	1.72
ISL84781IRZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, 8:1 Analog Mux*	16-QFN	4.32	2.69	1.79

VIDEO COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EL1881CS-ND	Low Power Video Sync. Separator	8-SOIC	3.54	2.20	1.47
EL1881CSZ-ND	Low Power Video Sync. Separator*	8-SOIC	3.06	1.89	1.23
EL1883IS-ND	Video Sync. Separator	8-SOIC	4.03	2.51	1.67
EL1883ISZ-ND	Video Sync. Separator*	8-SOIC	3.48	2.15	1.40
EL4511CUZ-ND	Super Sync. Separator*	24-QSOP	8.93	6.49	4.41
EL4581CN-ND	Sync. Separator, 50% Slice, S-H, Filter	8-Dip	7.35	5.35	3.53
EL4581CS-ND	Sync. Separator, 50% Slice, S-H, Filter	8-SOIC	7.35	5.35	3.53
EL4581CSZ-T7CT-ND	Sync. Separator, 50% Slice, S-H, Filter*	8-SOIC	6.38	4.64	3.86
EL4581CSZ-T7TR-ND	Sync. Separator, 50% Slice, S-H, Filter*	8-SOIC	3060.00/1,000		
EL4583AISZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	10.50	7.64	5.04
EL4583CN-ND	Sync. Separator, 50% Slice, S-H, Filter	16-Dip	11.85	8.62	5.69
EL4583CS-ND	Sync. Separator, 50% Slice, S-H, Filter	16-SOIC	12.60	9.16	6.05
EL4583CSZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	10.50	7.64	5.16
EL4584CN-ND	36MHz General Purpose PLL	16-Dip	14.85	10.80	7.13
EL4584CSZ-ND	36MHz General Purpose PLL*	16-SOIC	13.00	9.45	6.24
EL4585CS-ND	36MHz General Purpose PLL	16-SOIC	15.60	11.35	7.49
EL4585CSZ-ND	36MHz General Purpose PLL*	16-SOIC	13.00	9.45	6.24
EL9115ILZ-ND	Triple Analog Video Delay Line*	20-QFN	55.15	40.11	26.48
HA4314BCB-ND	400MHz, 4x1 Video Crosspoint Switch	14-SOIC	6.65	4.61	3.20
ISL34340INZ-T13CT-ND	24-Bit Long-Reach Video SERDES*	64-EPTQFP	12.98	9.44	7.84
ISL34340INZ-T13TR-ND	24-Bit Long-Reach Video SERDES*	64-EPTQFP	6228.00/1,000		
ISL51002CQZ-110-ND	10-Bit Video Analog Front End*	128-MQFP	19.58	14.24	9.40
ISL51002CQZ-165-ND	10-Bit Video Analog Front End*	128-MQFP	58.70	42.69	28.18
ISL59530IKZ-ND	16x16 Video Crosspoint Switch*	356-PBGA	106.88	77.73	51.30
ISL59532IKEZ-ND	32x32 Video Crosspoint Switch*	356-BGA	285.00	207.28	136.80
ISL59534IKEZ-ND	32x16 Video Crosspoint Switch*	356-BGA	154.38	112.27	74.10
ISL59830AIAZ-ND	True Single Supply Video Driver*	16-QSOP	3.89	2.42	1.61

* RoHS Compliant

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intersil DigiReel® *(Cont.)*

VIDEO COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL59831IRTZ-ND	Single Supply Video Driver*	12-TDFN	5.43	3.62	2.51
ISL59832IRZ-ND	Dual Channel, Single Supply Video Driver*	16-TQFN	5.72	3.81	2.64
ISL59833IAZ-ND	200MHz Single Supply Video Driver*	16-QSOP	4.76	2.98	2.04
ISL59834IRZ-ND	Quad Channel, Single Supply Video Driver*	44-QFN	6.40	4.65	3.08
ISL59837IAZ-ND	200MHz Single Supply Video Driver*	16-QSOP	4.76	2.98	2.04
ISL59885ISZ-ND	Auto-Adj. Sync. Separator*	8-SOIC	4.70	2.94	2.02
ISL59885ISZ-T7CT-ND	Auto-Adj. Sync. Separator*	8-SOIC	4.90	3.12	2.63
ISL59886ISZ-ND	Auto-Adj. Video Sync Separator*	8-SOIC	3.86	2.40	1.60
ISL98001CQZ-140-ND	Triple Video Digitizer*	128-MQFP	23.90	17.38	11.48
ISL98001CQZ-170-ND	Triple Video Digitizer*	128-MQFP	37.18	27.04	17.85
ISL98001IQZ-140-ND	Triple Video Digitizer with Digital PLL*	128-MQFP	20.08	14.82	11.48
X98014L128-3.3-Z-ND	Triple Video Digitizer with Digital PLL*	128-MQFP	23.90	17.38	11.48
X98017L128-3.3-Z-ND	Triple Video Digitizer with Digital PLL*	128-MQFP	37.18	27.04	17.85

intersil DigiReel®

VOLTAGE REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL6263CHRZ-ND	Single-Phase Synchronous Buck Regulator	32-QFN	9.38	6.82	4.50
ISL6271ACRZ-TCT-ND	Integrated XScale Regulator	20-QFN	4.95	3.15	2.66
ISL6271ACRZ-TTR-ND	Integrated XScale Regulator	20-QFN	12960.00/6,000		
ISL6322GCRZ-ND	2-Phase Buck PWM Controller	48-QFN	6.25	4.33	3.00
ISL6322GIRZ-ND	2-Phase Buck PWM Controller	48-QFN	7.50	5.10	3.60
ISL6334BCRZ-ND	4-Phase Synchronous Buck PWM Controller	40-QFN	9.00	6.19	4.50
ISL6334BIRZ-ND	4-Phase Synchronous Buck PWM Controller	40-QFN	9.60	6.52	4.80
ISL6334CCRZ-ND	4-Phase Synchronous Buck PWM Controller	40-QFN	8.64	5.94	4.32
ISL6334CIRZ-ND	4-Phase Synchronous Buck PWM Controller	40-QFN	9.36	6.44	4.68
ISL6336BCRZ-ND	6-Phase Synchronous Buck PWM Controller	48-QFN	10.12	7.18	5.28
ISL6336BIRZ-ND	6-Phase Synchronous Buck PWM Controller	48-QFN	10.58	7.50	5.52
ISL6405ERZ-TCT-ND	Dual Output LNB Supply and Control Voltage Reg.	32-QFN	4.20	2.70	2.25
ISL6405ERZ-TTR-ND	Dual Output LNB Supply and Control Voltage Reg.	32-QFN	10800.00/6,000		
ISL6410AIUZ-TKCT-ND	Single Synchronous Buck Regulator	10-MSOP	3.27	2.02	1.67
ISL6410AIUZ-TKTR-ND	Single Synchronous Buck Regulator	10-MSOP	1308.00/1,000		
ISL6412IRZ-TKCT-ND	Triple Output, Low Noise LDO Regulator	16-QFN	3.48	2.15	1.77
ISL6412IRZ-TKTR-ND	Triple Output, Low Noise LDO Regulator	16-QFN	1392.00/1,000		
ISL6522CRZ-TKCT-ND	Buck and Sync. Rectifier PWM Controller	16-QFN	3.48	2.15	1.77
ISL6522CRZ-TKTR-ND	Buck and Sync. Rectifier PWM Controller	16-QFN	1392.00/1,000		
ISL6609AIRZ-TKCT-ND	Synchronous Rectified Mosfet Driver	8-QFN	4.00	2.49	2.07
ISL6609AIRZ-TKTR-ND	Synchronous Rectified Mosfet Driver	8-QFN	1656.00/1,000		
ISL6620ACBZ-ND	Synchronous Rectified Buck Mosfet Driver	8-SOIC	2.98	1.83	1.16
ISL6620ACRZ-ND	Synchronous Rectified Buck Mosfet Driver	10-DFN	3.06	1.89	1.23
ISL6620AIBZ-ND	Synchronous Rectified Buck Mosfet Driver	8-SOIC	3.24	2.00	1.30
ISL6620AIRZ-ND	Synchronous Rectified Buck Mosfet Driver	10-DFN	3.42	2.11	1.37
ISL6620CBZ-ND	Synchronous Rectified Buck Mosfet Driver	8-SOIC	2.98	1.83	1.16
ISL6620CRZ-ND	Synchronous Rectified Buck Mosfet Driver	10-DFN	3.06	1.89	1.23
ISL6620IBZ-ND	Synchronous Rectified Buck Mosfet Driver	8-SOIC	3.24	2.00	1.30
ISL6620IRZ-ND	Synchronous Rectified Buck Mosfet Driver	10-DFN	3.42	2.11	1.37
ISL8009AIRZ-TCT-ND	1.5A, 1.6MHz Synchronous Buck Regulator	8-DFN	4.18	2.60	2.16
ISL8009AIRZ-TTR-ND	1.5A, 1.6MHz Synchronous Buck Regulator	8-DFN	10368.00/6,000		
ISL8012IRZ-TCT-ND	2A, 1MHz Synchronous Buck Regulator	10-DFN	4.84	3.08	2.60
ISL8012IRZ-TTR-ND	2A, 1MHz Synchronous Buck Regulator	10-DFN	12672.00/6,000		
ISL8013IRZ-ND	3A, 1MHz Synchronous Buck Regulator	16-QFN	6.43	4.67	3.09
ISL8013IRZ-TCT-ND	3A, 1MHz Synchronous Buck Regulator	16-QFN	6.43	4.67	3.88
ISL8013IRZ-TTR-ND	3A, 1MHz Synchronous Buck Regulator	16-QFN	18504.00/6,000		
ISL8014IRZ-TCT-ND	4A, 1MHz Synchronous Buck Regulator	16-QFN	8.45	5.99	5.11
ISL8014IRZ-TTR-ND	4A, 1MHz Synchronous Buck Regulator	16-QFN	25344.00/6,000		
ISL8200MIRZ-ND	10A, Adj., Synchronous Buck Regulator ***NEW!***	23-QFN	28.54	21.41	17.13
ISL8201MIRZ-TCT-ND	10A, High Efficiency DC/DC Module ***NEW!***	15-QFN	23.74	18.17	16.21
ISL8201MIRZ-TTR-ND	10A, High Efficiency DC/DC Module ***NEW!***	15-QFN	7122.00/500		
ISL8201MEVAL1Z-ND	Evaluation Board for ISL8201 ***NEW!***	—	86.50	—	—
ISL8204MIRZ-ND	4A, Adj., Synchronous Buck Regulator ***NEW!***	15-QFN	16.08	11.70	8.78
ISL8206MIRZ-ND	6A, Adj., Synchronous Buck Regulator ***NEW!***	15-QFN	20.42	15.63	12.26
ISL8502IRZ-TCT-ND	2.5A, Synchronous Buck Regulator	24-QFN	5.37	3.49	2.94
ISL8502IRZ-TTR-ND	2.5A, Synchronous Buck Regulator	24-QFN	14328.00/6,000		
ISL8540IVEZ-ND	DC/DC Power Switching Regulator	20-HTSSOP	6.63	4.82	3.18
ISL8560IRZ-ND	DC/DC Power Switching Regulator	20-QFN	7.05	5.13	3.39
ISL9003AIEBZ-TCT-ND	Single LDO with Low Noise	SC70-5	1.75	1.00	.80
ISL9003AIEBZ-TTR-ND	Single LDO with Low Noise	SC70-5	1800.00/3,000		
ISL9003AIEJZ-TCT-ND	Single LDO with Low Noise	SC70-5	1.75	1.00	.80
ISL9003AIEJZ-TTR-ND	Single LDO with Low Noise	SC70-5	1800.00/3,000		
ISL9008AIECZ-TCT-ND	Single LDO with Low Noise	SC70-5	1.55	.84	.68
ISL9008AIECZ-TTR-ND	Single LDO with Low Noise	SC70-5	1512.00/3,000		
ISL9008AIEMZ-TCT-ND	Single LDO with Low Noise	SC70-5	1.55	.84	.68
ISL9008AIEMZ-TTR-ND	Single LDO with Low Noise	SC70-5	1512.00/3,000		
ISL65426HRZ-ND	6A Dual Synchronous Buck Regulator	50-QFN	9.90	7.20	4.76
ISL97656IRTZ-TKCT-ND	High Frequency, High Eff. Step-Up Regulator	10-TDFN	8.21	5.82	4.96
ISL97656IRTZ-TKTR-ND	High Frequency, High Eff. Step-Up Regulator	10-TDFN	4104.00/1,000		

intersil DigiReel®

VOLTAGE REFERENCE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EL5225IRZ-ND	10-Channel TFT-LCD Reference Voltage Generator	24-TSSOP	7.80	5.53	3.90
EL5226IRZ-ND	10-Channel TFT-LCD Reference Voltage Generator	28-TSSOP	9.74	7.12	5.13
EL5325IRZ-ND	12-Channel TFT-LCD Reference Voltage Generator	28-TSSOP	8.93	6.14	4.47
ISL21007BFB812Z-TKCT-ND	Precision 1.25V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21007BFB812Z-TKTR-ND	Precision 1.25V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21007BFB820Z-TKCT-ND	Precision 2.048V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21007BFB820Z-TKTR-ND	Precision 2.048V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21007BFB825Z-TKCT-ND	Precision 2.5V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21007BFB825Z-TKTR-ND	Precision 2.5V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21007BFB830Z-TKCT-ND	Precision 3.0V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21007BFB830Z-TKTR-ND	Precision 3.0V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21007CFB812Z-TKCT-ND	Precision 1.25V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21007CFB812Z-TKTR-ND	Precision 1.25V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21007CFB820Z-TKCT-ND	Precision 2.048V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21007CFB820Z-TKTR-ND	Precision 2.048V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21007CFB825Z-TKCT-ND	Precision 2.5V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21007CFB825Z-TKTR-ND	Precision 2.5V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21007CFB830Z-TKCT-ND	Precision 3.0V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21007CFB830Z-TKTR-ND	Precision 3.0V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		

intersil DigiReel® *(Cont.)*

VOLTAGE REFERENCE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL21007DFB812Z-TKCT-ND	Precision 1.25V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21007DFB812Z-TKTR-ND	Precision 1.25V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21007DFB820Z-TKCT-ND	Precision 2.048V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21007DFB820Z-TKTR-ND	Precision 2.048V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21007DFB825Z-TKCT-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21007DFB825Z-TKTR-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21007DFB830Z-TKCT-ND	Precision 3.0V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21007DFB830Z-TKTR-ND	Precision 3.0V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21009BFB812Z-TKCT-ND	Precision 1.25V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21009BFB812Z-TKTR-ND	Precision 1.25V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21009BFB825Z-TKCT-ND	Precision 2.5V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21009BFB825Z-TKTR-ND	Precision 2.5V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21009BFB841Z-TKCT-ND	Precision 4.096V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21009BFB841Z-TKTR-ND	Precision 4.096V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21009BFB850Z-TKCT-ND	Precision 5.0V, 3ppm FGA™ Voltage Reference	8-SOIC	9.63	7.00	5.81
ISL21009BFB850Z-TKTR-ND	Precision 5.0V, 3ppm FGA™ Voltage Reference	8-SOIC	4620.00/1,000		
ISL21009CFB812Z-TKCT-ND	Precision 1.25V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21009CFB812Z-TKTR-ND	Precision 1.25V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21009CFB825Z-TKCT-ND	Precision 2.5V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21009CFB825Z-TKTR-ND	Precision 2.5V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21009CFB841Z-TKCT-ND	Precision 4.096V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21009CFB841Z-TKTR-ND	Precision 4.096V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21009CFB850Z-TKCT-ND	Precision 5.0V, 5ppm FGA™ Voltage Reference	8-SOIC	8.90	6.47	5.38
ISL21009CFB850Z-TKTR-ND	Precision 5.0V, 5ppm FGA™ Voltage Reference	8-SOIC	4272.00/1,000		
ISL21009DFB812Z-TKCT-ND	Precision 1.25V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21009DFB812Z-TKTR-ND	Precision 1.25V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21009DFB825Z-TKCT-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21009DFB825Z-TKTR-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21009DFB825Z-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.03
ISL21009DFB850Z-TKCT-ND	Precision 5.0V, 10ppm FGA™ Voltage Reference	8-SOIC	6.30	4.58	3.81
ISL21009DFB850Z-TKTR-ND	Precision 5.0V, 10ppm FGA™ Voltage Reference	8-SOIC	3024.00/1,000		
ISL21009DFB862Z-TKCT-ND	Precision 6.23V, 10ppm FGA™ Voltage Reference	8-SOIC	30.73	22.35	18.55
ISL21009DFB862Z-TKTR-ND	Precision 6.23V, 10ppm FGA™ Voltage Reference	8-SOIC	14748.00/1,000		
ISL21060BFH625Z-TKCT-ND	Precision 2.5V, 10ppm FGA™ Voltage Reference	SOT23-6	7.53	5.12	4.37
ISL21060BFH625Z-TKTR-ND	Precison 2.5V, 10ppm FGA™ Voltage Reference	SOT23-6	3612.00/1,000		
ISL21060BFH630Z-TKCT-ND	Precison 3.0V, 10ppm FGA™ Voltage Reference	SOT23-6	7.53	5.12	4.37
ISL21060BFH630Z-TKTR-ND	Precison 3.0V, 10ppm FGA™ Voltage Reference	SOT23-6	3612.00/1,000		
ISL21060CFH625Z-TKCT-ND	Precison 2.5V, 25ppm FGA™ Voltage Reference	SOT23-6	5.33	3.55	3.01
ISL21060CFH625Z-TKTR-ND	Precison 2.5V, 25ppm FGA™ Voltage Reference	SOT23-6	2460.00/1,000		
ISL21060CFH630Z-TKCT-ND	Precision 3.0V, 25ppm FGA™ Voltage Reference	SOT23-6	5.33	3.55	3.01
ISL21060CFH630Z-TKTR-ND	Precision 3.0V, 25ppm FGA™ Voltage Reference	SOT23-6	2460.00/1,000		
ISL21080CIH315Z-TKCT-ND	1.5V Voltage Reference ***NEW!***	SOT-23-3	1.86	1.06	.85
ISL21080CIH315Z-TKTR-ND	1.5V Voltage Reference ***NEW!***	SOT-23-3	636.00/1,000		
ISL24002IRTZ-ND	14-Channel TFT-LCD Voltage Generator	32-TQFN	5.93	3.95	2.74
ISL24005IRTZ-T13CT-ND	14-Channel TFT-LCD Voltage Generator	32-TQFN	9.24	6.36	5.49
ISL24005IRTZ-T13TR-ND	14-Channel TFT-LCD Voltage Generator	32-TQFN	11550.00/2,500		
ISL97648IRTZ-ND	High Voltage LCD Driver	56-TQFN	12.83	9.30	6.84
ISL97702IRZ-ND	Boost with Dual Reference Output	10-DFN	3.86	2.40	1.60
ISL60002BAH333Z-TKCT-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BAH333Z-TKTR-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH310Z-TKCT-ND	Precision 1.024V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH310Z-TKTR-ND	Precision 1.024V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH311Z-TKCT-ND	Precision 1.20V , 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH311Z-TKTR-ND	Precision 1.20V , 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH312Z-TKCT-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH320Z-TKCT-ND	Prec. 2.048V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH320Z-TKTR-ND	Prec. 2.048V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH325Z-TKCT-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH325Z-TKTR-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH326Z-TKCT-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	5.35	3.47	2.93
ISL60002BIH326Z-TKTR-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	2376.00/1,000		
ISL60002CAH333Z-TKCT-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
ISL60002CAH333Z-TKTR-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	1656.00/1,000		
ISL60002CIH312Z-TKCT-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
ISL60002CIH312Z-TKTR-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	1656.00/1,000		
ISL60002CIH320Z-TKCT-ND	Precision 2.048V, 20ppm FGA™ Voltage Ref.	SOT-23	4.00	2.49	2.07
ISL60002CIH320Z-TKTR-ND	Precision 2.048V, 20ppm FGA™ Voltage Ref.	SOT-23	1656.00/1,000		
ISL60002CIH325Z-TKCT-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
ISL60002CIH325Z-TKTR-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	1656.00/1,000		
ISL60002CIH326Z-TKCT-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	3.71	2.31	1.92
ISL60002CIH326Z-TKTR-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	1536.00/1,000		
ISL60002CIH330Z-TKCT-ND	Precision 3.0V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
ISL60002CIH330Z-TKTR-ND	Precision 3.0V, 20ppm FGA™ Voltage Reference	SOT-23	1656.00/1,000		
ISL60002DAH333Z-TKCT-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DAH333Z-TKTR-ND	Precision 3.3V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH310Z-TKCT-ND	Precision 1.024V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH310Z-TKTR-ND	Precision 1.024V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH311Z-TKCT-ND	Precision 1.2V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH311Z-TKTR-ND	Precision 1.2V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH312Z-TKCT-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH312Z-TKTR-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH320Z-TKCT-ND	Precision 2.048V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH320Z-TKTR-ND	Precision 2.048V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH325Z-TKCT-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH325Z-TKTR-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL60002DIH326Z-TKCT-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	2.69	1.60	1.31
ISL60002DIH326Z-TKTR-ND	Precision 2.6V, 20ppm FGA™ Voltage Reference	SOT-23	1008.00/1,000		
ISL60002DIH330Z-TKCT-ND	Precision 3.0V, 20ppm FGA™ Voltage Reference	SOT-23	2.79	1.71	1.40
ISL60002DIH330Z-TKTR-ND	Precision 3.0V, 20ppm FGA™ Voltage Reference	SOT-23	1080.00/1,000		
ISL97650ARTZ-TKCT-ND	4-Channel Integrated LCD Supply	36-TQFN	6.34	4.23	3.58
ISL97650ARTZ-TKTR-ND	4-Channel Integrated LCD Supply	36-TQFN	2928.00/1,000		
X60003CIG3Z-41T1CT-ND	Precision 4.096V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
X60003CIG3Z-41T1TR-ND	Precision 4.096V, 20ppm FGA™ Voltage Reference	SOT-23	4968.00/3,000		
X60003CIG3Z-50T1CT-ND	Precision 5V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
X60003CIG3Z-50T1TR-ND	Precision 5V, 20ppm FGA™ Voltage Reference	SOT-23	4968.00/3,000		

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* *RoHS Compliant*

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

IDT COMMUNICATION

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CA91C142D-33CE	800-1911-ND	VME to PCI Bridge* ***NEW!***	313-PBGA	384.75	363.38	356.25
CA91C142D-33CEV	800-1910-ND	VME to PCI Bridge* ***NEW!***	313-PBGA	384.75	363.38	356.25
CA91C142D-33IE	800-1909-ND	VME to PCI Bridge* ***NEW!***	313-PBGA	493.76	466.34	457.19
ICS9DB202CGLF	800-1243-5-ND	PCI Express™ Jitter Attenuator*	20-TSSOP	12.28	10.07	9.09
ICS9DB202CK-01LF	800-1244-ND	PCI Express™ Jitter Attenuator*	32-VFQFN	12.28	10.07	9.09
ICS9DB206CFLF	800-1245-5-ND	PCI Express™ Jitter Attenuator*	28-SSOP	11.79	9.92	9.12
ICS841S01BGLF	800-1128-5-ND	Single, PLL Clock Generator*	16-TSSOP	10.33	8.47	7.65
ICS841S02BGILF	800-1129-5-ND	Dual, PLL Clock Generator*	20-TSSOP	11.65	9.56	8.63
ICS841S04BGILF	800-1130-5-ND	Quad, PLL Clock Generator*	24-TSSOP	11.37	9.57	8.79
ICS853S12AKILF	800-1177-ND	1:12 Diff.-to-LVPECL Fanout Buffer*	32-VFQFN	28.72	24.42	22.62
ICS8302AMLF	800-1104-5-ND	1:2 LVCMOS/LVTTL Fanout Buffer*	8-SOIC	7.00	5.74	5.18
ICS8304AMLF	800-1105-5-ND	1:4 LVCMOS/LVTTL Fanout Buffer*	8-SOIC	9.73	7.98	7.20
ICS8305AGLF	800-1110-5-ND	2:4 Differential/LVCMOS-to-LVCMOS/ LVTTL Fanout Buffer*	16-TSSOP	7.08	5.81	5.24
ICS8312AYLF	800-1111-ND	1:12 LVCMOS/LVTTL Fanout Buffer*	32-LQFP	12.50	10.51	9.66
ICS8343AYI-01LF	800-1112-ND	1:16 LVCMOS/LVTTL Fanout Buffer*	32-LQFP	16.63	13.99	12.86
ICS8344BYLF	800-1113-ND	1:24 Diff.-to-LVCMOS Fanout Buffer*	48-LQFP	16.37	13.77	12.65
ICS8402AYLF	800-1127-ND	Crystal-to-LVCMOS/LVTTL High Frequency Synthesizer*	32-LQFP	19.29	16.23	14.91
ICS8430AY-61LF	800-1137-ND	Dual Output Crystal-to-Differential LVPECL High Freq. Synthesizer*	32-LQFP	19.29	16.23	14.91
ICS8431AM-21LF	800-1139-5-ND	Crystal-to-LVPECL Clock Frequency Synthesizer*	28-SOIC	20.38	17.33	16.05
ICS8432BY-51LF	800-1142-ND	Dual Output Crystal-to-Differential LVPECL High Freq. Synthesizer*	32-LQFP	19.29	16.23	14.91
ICS8442AYLF	800-1149-ND	Dual Output Crystal-to-Differential LVDS High Frequency Synthesizer*	32-LQFP	26.46	22.50	20.84
ICS8516FYLF	800-1154-ND	1:16 Differential-to-LVDS Clock Distribution Chip*	48-LQFP	14.23	11.97	11.00
ICS8534AY-01LF	800-1173-ND	1:22 Diff.-to-LVPECL Fanout Buffer*	64-TQFP	23.96	20.37	18.87
ICS8535AG-01LF	800-1176-5-ND	1:4 LVCMOS/LVTTL-to-LVPECL Fanout Buffer*	20-TSSOP	9.08	7.45	6.72
ICS8543BGLF	800-1186-5-ND	1:4 Diff.-to-LVDS Fanout Buffer*	20-TSSOP	15.31	12.88	11.84
ICS8547AY	800-1187-ND	Hex, 1:2 Diff.-to-LVDS Clock Buffer	48-LQFP	28.98	24.64	22.83
ICS8634BY-01LF	800-1189-ND	1:5 Differential-to-LVPECL Zero Delay Buffer*	32-LQFP	22.54	19.16	17.76
ICS8701CYLF	800-1195-ND	÷1/÷2 LVCMOS/LVTTL Clock Generator*	48-LQFP	18.00	15.14	13.91
ICS8702BYLF	800-1197-ND	÷1/÷2 Differential-to-LVCMOS/LVTTL Clock Generator*	48-LQFP	18.79	15.80	14.52
ICS8732AY-01LF	800-1203-ND	LV, 3.3V LVPECL Clock Generator*	52-LQFP	30.96	26.32	24.39
ICS8735AM-21LF	800-1207-5-ND	1:1 Differential-to-LVPECL Zero Delay Clock Generator*	20-SOIC	21.98	18.69	17.31
ICS8735AY-31LF	800-1208-ND	1:5 Differential-to-LVPECL Zero Delay Clock Generator*	32-LQFP	27.50	23.38	21.66
ICS8735AYI-01LF	800-1209-ND	1:5 Differential-to-LVPECL Zero Delay Clock Generator*	32-LQFP	34.14	29.02	26.89
ICS8737AG-11LF	800-1210-5-ND	÷1/÷2 Diff.-to-LVPECL Fanout Buffer*	20-TSSOP	11.43	9.37	8.46
ICS8745BM-21LF	800-1218-5-ND	1:1 Differential-to-LVDS Zero Delay Clock Generator*	20-SOIC	19.89	16.73	15.37
ICS8752CYLF	800-1219-ND	1:8 LVCMOS Clock Multiplier/Zero Delay Buffer*	32-LQFP	10.23	8.39	7.57
ICS8761CYLF	800-1222-ND	PCI/PCI-X Clock Generator*	64-LQFP	20.46	17.21	15.81
ICS81006AKLF	800-1099-5-ND	VCXO-TO-6 LVCMOS Outputs*	20-VFQFN	7.00	5.74	5.18
ICS83021AMILF	800-1100-5-ND	1:1 Differential-to-LVCMOS/LVTTL Fanout Buffer*	8-SOIC	4.09	3.29	3.00
ICS83023AMILF	800-1102-5-ND	Dual, 1:1 Differential-to-LVCMOS Translator/Fanout Buffer*	8-SOIC	4.09	3.29	3.00
ICS83026AMILF	800-1103-5-ND	1:2 Differential-to-LVCMOS/LVTTL Fanout Buffer*	8-SOIC	6.38	5.13	4.68
ICS83052AGILF	800-1106-5-ND	2:1 Single-Ended Multiplexer*	8-TSSOP	5.43	4.37	3.98
ICS83054AGILF	800-1107-5-ND	4:1 Single-Ended Multiplexer*	16-TSSOP	6.66	5.36	4.88
ICS83056AGILF	800-1108-5-ND	6:1 Single-Ended Multiplexer*	16-TSSOP	6.66	5.36	4.88
ICS83058AGILF	800-1109-5-ND	8:1 Single-Ended Multiplexer*	16-TSSOP	6.66	5.36	4.88
ICS83904AG-02LF	800-1114-5-ND	1:4 Crystal-to-LVCMOS/LVTTL Fanout Buffer*	16-TSSOP	7.43	6.09	5.50
ICS83905AGLF	800-1115-5-ND	1:6 Crystal-to-LVCMOS/LVTTL Fanout Buffer*	16-TSSOP	2.76	2.23	2.01
ICS83908AGI-02LF	800-1116-5-ND	1:8 Crystal-to-LVCMOS Fanout Buffer*	24-TSSOP	7.45	6.11	5.52
ICS83940DYLF	800-1117-ND	1:18 LVPECL-to-LVCMOS/LVTTL Fanout Buffer*	32-LQFP	11.50	9.43	8.51
ICS83947AYILN	800-1119-ND	1:9 LVCMOS/LVTTL Fanout Buffer*	32-LQFP	8.42	7.49	5.93
ICS83948AYILF	800-1120-ND	1:12 Diff.-to-LVCMOS/LVTTL Fanout Buffer*	32-LQFP	7.80	6.40	5.78
ICS84320AY-01LN	800-1140-ND	Dual Output Crystal-to-Differential LVPECL High Freq. Synthesizer*	32-LQFP	21.74	18.48	17.13
ICS84329BYLF	800-1141-ND	Crystal-to-LVPECL High Frequency Synthesizer*	32-LQFP	7.85	6.44	5.81
ICS84330CYLN	800-1143-ND	Crystal-to-Differential LVPECL High Frequency Synthesizer	32-LQFP	7.83	6.42	5.80
ICS85102AGILF	800-1150-5-ND	1:2 Differential/LVCMOS-to-HCSL Fanout Buffer*	16-TSSOP	13.79	11.60	10.66
ICS85104AGILF	800-1151-5-ND	1:4 Differential/LVCMOS-to-HCSL Fanout Buffer*	20-TSSOP	16.24	13.66	12.55
ICS85105AGILF	800-1152-5-ND	1:5 Differential/LVCMOS-to-HCSL Fanout Buffer*	20-TSSOP	17.91	15.06	13.84
ICS85108AGILF	800-1153-5-ND	1:8 Differential-to-HCSL Clock Distribution Chip*	24-TSSOP	22.16	18.84	17.46
ICS85311AMLF	800-1166-5-ND	1:2 Differential-to-LVPECL/ECL Fanout Buffer*	8-SOIC	7.68	6.30	5.68
ICS85314BGI-01LF	800-1167-5-ND	1:5 Diff.-to-LVPECL Fanout Buffer*	20-TSSOP	9.70	7.96	7.18
ICS85320AMILF	800-1168-5-ND	LVCMOS/LVTTL-to-Differential LVPECL Translator*	8-SOIC	11.55	9.48	8.55
ICS85322AMLF	800-1170-5-ND	Dual LVCMOS/LVTTL-to-Differential LVPECL Translator*	8-SOIC	5.80	4.66	4.25
ICS85352AYILF	800-1174-ND	12-bit, 2:1 LVPECL Clock Mux*	48-TQFP	21.52	18.30	16.95
ICS85356AGILF	800-1175-5-ND	2:1 Differential-to-Dual LVPECL/ECL Clock Multiplexer*	20-TSSOP	9.20	7.55	6.81
ICS85408BGLF	800-1182-5-ND	1:8 Differential-to-LVDS Clock Distribution Chip*	24-TSSOP	11.73	9.62	8.68
ICS85411AMLF	800-1184-5-ND	1:2 Diff.-to-LVDS Fanout Buffer*	8-SOIC	8.95	7.34	6.63
ICS86004BG-01LF	800-1188-5-ND	1:4 LVCMOS/LVTTL Zero Delay Clock Buffer*	16-TSSOP	7.30	5.99	5.41
ICS86962CYI-01	800-1190-ND	1:18 LVCMOS/LVTTL Zero Delay Buffer	32-LQFP	11.86	9.98	9.17
ICS87002AG-02LF	800-1191-5-ND	1:2 Differential-to-LVCMOS/LVTTL Zero Delay Clock Generator*	20-TSSOP	14.37	12.09	11.11

IDT (Cont.) COMMUNICATION

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICS87004AGLF	800-1192-5-ND	1:4 Differential-to-LVCMOS/LVTTL Zero Delay Clock Generator*	24-TSSOP	15.31	12.88	11.84
ICS87008AGILF	800-1193-5-ND	1:8 Differential-to-LVCMOS/LVTTL Clock Generator*	24-TSSOP	16.10	13.55	12.45
ICS87016AYLF	800-1194-ND	Low Skew 1:16 LVCMOS/LVTTL Clock Generator*	48-LQFP	19.60	16.49	15.15
ICS87021AMILF	800-1196-5-ND	÷1/÷2 Differential-to-LVCMOS/LVTTL Clock Generator*	8-SOIC	8.55	7.02	6.33
ICS87321AMI	800-1201-5-ND	÷1/÷2 Differential-to-LVPECL Clock Generator*	8-SOIC	8.55	7.02	6.33
ICS87322BYILF	800-1202-ND	÷1/÷2 Differential-to-LVPECL/ECL Clock Generator*	52-LQFP	9.78	8.02	7.24
ICS87332AMI-01LF	800-1204-5-ND	÷2 Differential-to-ECL/LVPECL Clock Generator*	8-SOIC	6.63	5.44	4.91
ICS87339AM-01LF	800-1205-5-ND	÷2/4, ÷4/6 Differential-to-LVPECL/ECL Clock Generator*	20-SOIC	11.43	9.37	8.46
ICS87421AMILF	800-1217-5-ND	÷1/÷2 Diff.-to-LVDS Clock Generator*	8-SOIC	8.55	7.02	6.33
ICS87604AGILF	800-1220-5-ND	1:4 PCI/PCI-X Zero Delay Clock Generator*	28-TSSOP	12.25	10.31	9.47
ICS87608AYILF	800-1221-ND	1:8 PCI/PCI-X Zero Delay Clock Generator*	32-LQFP	15.31	12.88	11.84
ICS87931BYILF	800-1223-ND	1:6 LVCMOS/LVTTL Clock Multiplier/ Zero Delay Buffer*	32-LQFP	9.23	7.57	6.83
ICS87946AYILF	800-1224-ND	÷1/÷2 LVCMOS Clock Generator*	32-LQFP	6.86	5.52	5.03
ICS87949AYILF	800-1226-ND	÷1/÷2 LVCMOS Clock Generator*	52-LQFP	9.28	7.61	6.87
ICS87950BYILF	800-1228-ND	1:9 LVCMOS/LVTTL Clock Multiplier*	32-LQFP	9.28	7.61	6.87
ICS87972DYILF	800-1229-ND	1:12 LVCMOS/LVTTL Clock Multiplier/ Zero Delay Buffer*	52-LQFP	10.00	8.20	7.40
ICS87973DYILF	800-1230-ND	1:12 LVCMOS/LVTTL Clock Multiplier/ Zero Delay Buffer*	52-LQFP	10.20	8.37	7.55
ICS87974CYILF	800-1231-ND	1:15 LVCMOS/LVTTL Clock Generator*	52-LQFP	11.50	9.43	8.51
ICS840001BGLF	800-1122-5-ND	Crystal-to-LVCMOS/LVTTL Fibre Channel Clock Generator*	8-TSSOP	9.30	7.63	6.89
ICS840011AGLN	800-1123-5-ND	Crystal-to-LVCMOS/LVTTL Fibre Channel Clock Generator*	8-TSSOP	5.21	4.19	3.82
ICS840021AGILF	800-1124-5-ND	Crystal-to-LVCMOS/LVTTL Gigabit Ethernet Clock Generator*	8-TSSOP	6.97	5.61	5.11
ICS840022AGLF	800-1125-5-ND	Crystal-to-LVCMOS/LVTTL Gigabit Ethernet Clock Generator*	8-TSSOP	9.30	7.63	6.89
ICS840051AGILF	800-1126-5-ND	Crystal-to-LVCMOS/LVTTL Gigabit Ethernet Clock Generator*	8-TSSOP	7.43	6.09	5.50
ICS843001AGLF	800-1131-5-ND	Crystal-to-LVPECL Fibre Channel Clock Generator*	8-TSSOP	11.46	9.64	8.86
ICS843021AGI-01LF	800-1132-5-ND	Crystal-to-LVPECL Gigabit Ethernet Clock Generator*	8-TSSOP	11.35	9.55	8.78
ICS843021AGLF	800-1133-5-ND	Crystal-to-LVPECL Gigabit Ethernet Clock Generator*	8-TSSOP	10.40	8.53	7.70
ICS843023AGILF	800-1134-5-ND	Crystal-to-LVPECL Gigabit Ethernet Clock Generator*	8-TSSOP	19.87	16.71	15.36
ICS843031AGLF	800-1135-5-ND	Crystal-to-LVPECL Gigabit Ethernet Clock Generator*	8-TSSOP	18.96	15.95	14.66
ICS843051AGLF	800-1136-5-ND	Crystal-to-LVPECL Gigabit Ethernet Clock Generator*	8-TSSOP	16.04	13.49	12.40
ICS844001AGLF	800-1144-5-ND	Crystal-to-LVDS Fibre Channel Clock Generator*	8-TSSOP	11.88	9.99	9.18
ICS844021BG-01LF	800-1146-5-ND	Crystal-to-LVDS Ethernet Clock Generator*	8-TSSOP	11.35	9.55	8.78
ICS844051CGILF	800-1147-5-ND	Crystal-to-LVDS Gigabit Ethernet Clock Generator*	8-TSSOP	19.87	16.71	15.36
ICS844071AGLF	800-1148-5-ND	Serial ATA/SAS Crystal-to-LVDS Clock Generator*	8-TSSOP	11.88	9.99	9.18
ICS853016AGLF	800-1160-5-ND	1:2 Differential-to-LVPECL/ECL Fanout Buffer*	8-TSSOP	7.78	6.92	5.48
ICS853017AM	800-1161-5-ND	Quad, 1:1 Differential-to-LVPECL/ ECL Receiver	20-SOIC	6.57	5.48	4.60
ICS854057AGLF	800-1181-5-ND	4:1 or 2:1 LVDS Clock Mux*	20-TSSOP	14.93	13.44	10.45
ICS854104AGLF	800-1183-5-ND	1:4 Diff.-to-LVDS Fanout Buffer*	16-TSSOP	6.16	4.95	4.51
ICS873033AGLF	800-1198-5-ND	÷4 Differential-to-LVPECL/ECL Clock Generator*	8-TSSOP	7.16	6.36	5.04
ICS873039AM	800-1200-5-ND	÷2/4, ÷4/6 LVPECL-to-LVPECL/ECL Clock Generator*	20-SOIC	10.10	8.98	7.11
ICS873990AYLF	800-1211-ND	LVCMOS/Crystal-to-LVPECL/ECL Clock Generator*	52-LQFP	19.80	16.65	15.30
ICS873991AYLF	800-1212-ND	LVCMOS/LVPECL-to-LVPECL/ECL Clock Generator*	52-LQFP	19.80	16.65	15.30
ICS874002AGLF	800-1213-5-ND	PCI Express™ Jitter Attenuator*	20-TSSOP	12.28	10.07	9.09
ICS874003AG-02LF	800-1214-5-ND	PCI Express™ Jitter Attenuator*	20-TSSOP	13.09	11.01	10.12
ICS874003AGLF	800-1215-5-ND	PCI Express™ Jitter Attenuator*	20-TSSOP	12.38	10.15	9.16
ICS874005AGLF	800-1216-5-ND	PCI Express™ Jitter Attenuator*	24-TSSOP	13.05	10.98	10.09
MPC9817EN	800-1792-5-ND	PLL Clock Generator*	20-SSOP	6.43	5.27	4.76
TSI107D-100JE	800-1908-ND	Host Bridge for PowerPC®* ***NEW!***	503-BGA	74.46	66.57	63.19
TSI107D-100JEY	800-1907-ND	Host Bridge for PowerPC®* ***NEW!***	503-BGA	74.46	66.57	63.19
TSI148-133CL	800-1906-ND	PCI/PCI-X-to-VMEbus Bridge* ***NEW!***	456-PBGA	493.76	466.34	457.19
TSI148-133IL	800-1905-ND	PCI/PCI-X-to-VMEbus Bridge* ***NEW!***	456-PBGA	654.08	617.74	605.63
TSI310A-133CE	800-1904-ND	PCI-X Bus Bridge* ***NEW!***	304-BGA	97.33	86.69	82.13
TSI310A-133CEY	800-1903-ND	PCI-X Bus Bridge* ***NEW!***	304-BGA	97.33	86.69	82.13
TSI340-66CQY	800-1902-ND	PCI-to-PCI Bridge* ***NEW!***	128-TQFP	17.60	14.80	13.60
TSI350-66CQY	800-1901-ND	PCI-to-PCI Bridge* ***NEW!***	208-PQFP	17.60	14.80	13.60
TSI381-66ILV	800-1900-ND	PCI-to-x1 PCI Express Bridge* ***NEW!***	144-BGA	19.80	16.65	15.30
TSI382-66ILV	800-1899-ND	PCI-to-x1 PCI Express Bridge* ***NEW!***	144-BGA	19.80	16.65	15.30
TSI384-133ILV	800-1897-ND	PCIe® to PCI/PCI-X Bridge* ***NEW!***	256-BGA	39.70	34.34	32.19
TSI384-133IL	800-1898-ND	PCIe® to PCI/PCI-X Bridge* ***NEW!***	256-BGA	39.70	34.34	32.19
TSI578-10GCLY	800-1896-ND	Serial RapidIO Switch* ***NEW!***	675-BGA	263.54	241.73	236.28
TSI578-10GIL	800-1895-ND	Serial RapidIO Switch* ***NEW!***	675-BGA	343.55	324.47	318.10

IDT Digi-Reel® CLOCKS AND TIMERS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICS9DB102BFLFT	800-1822-1-ND	1:2 Zero Delay/Fanout Buffer*	20-SSOP	3.75	3.07	2.75
ICS9DB102BFLFT	800-1822-2-ND	1:2 Zero Delay/Fanout Buffer*	20-SSOP	4157.50/2,500		
ICS9DB102BGLFT	800-1823-1-ND	1:2 Zero Delay/Fanout Buffer*	20-TSSOP	4.05	3.31	2.97
ICS9DB102BGLFT	800-1823-2-ND	1:2 Zero Delay/Fanout Buffer*	20-TSSOP	4490.00/2,500		
ICS9DB106BFILFT	800-1239-1-ND	6 Output Zero Delay Buffer*	28-SSOP	6.23	4.81	4.28

***** *RoHS Compliant*

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICS9DB106BFILFT	800-1239-2-ND	6 Output Zero Delay Buffer*	28-SSOP	2492.00/1,000		
ICS9DB106BFLFT	800-1240-1-ND	6 Output Zero Delay Buffer*	28-SSOP	5.43	4.19	3.72
ICS9DB106BFLFT	800-1240-2-ND	6 Output Zero Delay Buffer*	28-SSOP	2170.00/1,000		
ICS9DB106BGILFT	800-1241-1-ND	6 Output Zero Delay Buffer*	28-TSSOP	5.34	4.37	3.92
ICS9DB106BGILFT	800-1241-2-ND	6 Output Zero Delay Buffer*	28-TSSOP	2492.00/1,000		
ICS9DB106BGLFT	800-1242-1-ND	6 Output Zero Delay Buffer*	28-TSSOP	4.95	4.05	3.63
ICS9DB106BGLFT	800-1242-2-ND	6 Output Zero Delay Buffer*	28-TSSOP	4390.00/2,000		
ICS9DB403DFILFT	800-1246-1-ND	4 Output Diff. Buffer, Ind. Temp.*	28-SSOP	7.18	5.54	4.92
ICS9DB403DFILFT	800-1246-2-ND	4 Output Diff. Buffer, Ind. Temp.*	28-SSOP	2870.00/1,000		
ICS9DB403DFLFT	800-1247-1-ND	4 Output Differential Buffer*	28-SSOP	5.25	4.29	3.85
ICS9DB403DFLFT	800-1247-2-ND	4 Output Differential Buffer*	28-SSOP	2450.00/1,000		
ICS9DB403DGILFT	800-1248-1-ND	4 Output Diff. Buffer, Ind. Temp.*	28-TSSOP	6.75	5.52	4.95
ICS9DB403DGILFT	800-1248-2-ND	4 Output Diff. Buffer, Ind. Temp.*	28-TSSOP	3150.00/1,000		
ICS9DB403DGLFT	800-1249-1-ND	4 Output Differential Buffer*	28-TSSOP	5.85	4.78	4.29
ICS9DB403DGLFT	800-1249-2-ND	4 Output Differential Buffer*	28-TSSOP	2730.00/1,000		
ICS9DB803DFLFT	800-1250-1-ND	8 Output Differential Buffer*	48-SSOP	5.85	4.78	4.29
ICS9DB803DFLFT	800-1250-2-ND	8 Output Differential Buffer*	48-SSOP	2730.00/1,000		
ICS9DB803DGILFT	800-1251-1-ND	8 Output Diff. Buffer, Ind. Temp.*	48-TSSOP	7.05	5.76	5.17
ICS9DB803DGILFT	800-1251-2-ND	8 Output Diff. Buffer, Ind. Temp.*	48-TSSOP	3290.00/1,000		
ICS9DB803DGLFT	800-1252-1-ND	8 Output Differential Buffer*	48-TSSOP	6.15	5.03	4.51
ICS9DB803DGLFT	800-1252-2-ND	8 Output Differential Buffer*	48-TSSOP	2870.00/1,000		
ICS9DB1200CGLFT	800-1825-1-ND	12 Output Differential Buffer*	64-TSSOP	6.75	5.52	4.95
ICS9DB1200CGLFT	800-1825-2-ND	12 Output Differential Buffer*	64-TSSOP	3150.00/1,000		
ICS9DBL411AKLFT	800-1824-1-ND	4 Output Differential Fanout Buffer*	20-MLF	3.75	3.07	2.75
ICS9DBL411AKLFT	800-1824-2-ND	4 Output Differential Fanout Buffer*	20-MLF	4157.50/2,500		
ICS9FG104DFILFT	800-1253-1-ND	4 Output Frequency Timing Generator, Industrial Temp.*	28-SSOP	5.19	4.24	3.81
ICS9FG104DFILFT	800-1253-2-ND	4 Output Frequency Timing Generator, Industrial Temp.*	28-SSOP	2422.00/1,000		
ICS9FG104DFLFT	800-1254-1-ND	4 Output Freq. Timing Generator*	28-SSOP	4.50	3.68	3.30
ICS9FG104DFLFT	800-1254-2-ND	4 Output Freq. Timing Generator*	28-SSOP	2100.00/1,000		
ICS9FG104DGILFT	800-1255-1-ND	4 Output Frequency Timing Generator, Industrial Temp.*	28-TSSOP	5.52	4.51	4.05
ICS9FG104DGILFT	800-1255-2-ND	4 Output Frequency Timing Generator, Industrial Temp.*	28-TSSOP	2576.00/1,000		
ICS9FG104DGLFT	800-1256-1-ND	4 Output Freq. Timing Generator*	28-TSSOP	4.80	3.92	3.52
ICS9FG104DGLFT	800-1256-2-ND	4 Output Freq. Timing Generator*	28-TSSOP	2240.00/1,000		
ICS9FG108DFILFT	800-1257-1-ND	8 Output Frequency Timing Generator, Industrial Temp.*	48-SSOP	6.65	5.13	4.56
ICS9FG108DFILFT	800-1257-2-ND	8 Output Frequency Timing Generator, Industrial Temp.*	48-SSOP	2660.00/1,000		
ICS9FG108DFLFT	800-1258-1-ND	8 Output Freq. Timing Generator*	48-SSOP	4.95	4.05	3.63
ICS9FG108DGILFT	800-1259-1-ND	8 Output Frequency Timing Generator, Industrial Temp.*	48-TSSOP	6.00	4.90	4.40
ICS9FG108DGILFT	800-1259-2-ND	8 Output Frequency Timing Generator, Industrial Temp.*	48-TSSOP	2800.00/1,000		
ICS9FG108DGLFT	800-1260-1-ND	8 Output Freq. Timing Generator*	48-TSSOP	5.25	4.29	3.85
ICS9FG108DGLFT	800-1260-2-ND	8 Output Freq. Timing Generator*	48-TSSOP	2450.00/1,000		
ICS9FG1200DG-1LFT	800-1261-1-ND	12 Output Freq. Timing Generator*	56-TSSOP	6.00	4.90	4.40
ICS9FG1200DG-1LFT	800-1261-2-ND	12 Output Freq. Timing Generator*	56-TSSOP	2800.00/1,000		
ICS9FG1201HGLFT	800-1262-1-ND	12 Output Freq. Timing Generator*	56-TSSOP	5.70	4.66	4.18
ICS9FG1201HGLFT	800-1262-2-ND	12 Output Freq. Timing Generator*	56-TSSOP	2660.00/1,000		
ICS9FG1900BK-1LFT	800-1263-1-ND	19 Output Freq. Timing Generator*	72-VFQFPN	6.63	5.50	5.00
ICS9FG1900BK-1LFT	800-1263-2-ND	19 Output Freq. Timing Generator*	72-VFQFPN	3375.00/1,000		
ICS9FG1901HKLFT	800-1264-1-ND	19 Output Freq. Timing Generator*	72-MLF	6.63	5.50	5.00
ICS9FG1901HKLFT	800-1264-2-ND	19 Output Freq. Timing Generator*	72-MLF	3375.00/1,000		
ICS9LPRS501SGLFT	800-1826-1-ND	CK505 Volt. Regulator/Resistor*	64-TSSOP	6.63	5.50	5.00
ICS9LPRS501SGLFT	800-1826-2-ND	CK505 Volt. Regulator/Resistor*	64-TSSOP	3375.00/1,000		
ICS9UMS9610CKLFT	800-1827-1-ND	Low Power PC Main Clock*	48-MLF	8.56	7.11	6.46
ICS9UMS9610CKLFT	800-1827-2-ND	Low Power PC Main Clock*	48-MLF	4361.00/1,000		
ICS9UMS9633BFILFT	800-1828-1-ND	Ultra-Mobile PC Clock*	48-SSOP	10.10	8.39	7.62
ICS9UMS9633BFILFT	800-1828-2-ND	Ultra-Mobile PC Clock*	48-SSOP	5144.00/1,000		
ICS9UMS9633BKILFT	800-1829-1-ND	Ultra-Mobile PC Clock*	48-VFQFPN	10.10	8.39	7.62
ICS9UMS9633BKILFT	800-1829-2-ND	Ultra-Mobile PC Clock*	48-VFQFPN	5144.00/1,000		
ICS180M-01LF	800-1001-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS180M-01LFT	800-1002-1-ND	Low EMI Clock Generator*	8-SOIC	2.25	1.92	1.68
ICS180M-01LFT	800-1002-2-ND	Low EMI Clock Generator*	8-SOIC	2025.00/2,500		
ICS180M-03LF	800-1003-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS180M-51LF	800-1004-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS180M-51LFT	800-1005-1-ND	Low EMI Clock Generator*	8-SOIC	2.25	1.92	1.68
ICS180M-51LFT	800-1005-2-ND	Low EMI Clock Generator*	8-SOIC	2025.00/2,500		
ICS180M-52LF	800-1006-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS180M-53LF	800-1007-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-01LF	800-1008-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-02LF	800-1009-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-02LFT	800-1010-1-ND	Low EMI Clock Generator*	8-SOIC	2.25	1.92	1.68
ICS181M-02LFT	800-1010-2-ND	Low EMI Clock Generator*	8-SOIC	2025.00/2,500		
ICS181M-03LF	800-1011-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-51LF	800-1012-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-51LFT	800-1013-1-ND	Low EMI Clock Generator*	8-SOIC	2.10	1.62	1.47
ICS181M-51LFT	800-1013-2-ND	Low EMI Clock Generator*	8-SOIC	2025.00/2,500		
ICS181M-52LF	800-1014-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181M-53LF	800-1015-5-ND	Low EMI Clock Generator*	8-SOIC	1.86	1.50	1.35
ICS181MI-02LF	800-1016-5-ND	Low EMI Clock Gen., Ind. Temp.*	8-SOIC	2.33	1.88	1.69
ICS307G-03LF	800-1028-5-ND	Serial Programmable Clock Source*	16-TSSOP	6.22	5.00	4.56
ICS307G-03LFT	800-1796-1-ND	Serial Programmable Clock Source*	16-TSSOP	6.66	5.44	4.89
ICS307G-03LFT	800-1796-2-ND	Serial Programmable Clock Source*	16-TSSOP	7382.50/2,500		
ICS307GI-03LF	800-1029-5-ND	Serial Programmable Clock Source*	16-TSSOP	6.45	5.29	4.78
ICS307M-02ILF	800-1030-5-ND	Serial Programmable Clock Source*	16-SOIC	6.69	5.38	4.90
ICS307M-02ILFT	800-1797-1-ND	Serial Programmable Clock Source*	16-SOIC	7.17	5.86	5.26
ICS307M-02ILFT	800-1797-2-ND	Serial Programmable Clock Source*	16-SOIC	7947.50/2,500		
ICS307M-02LF	800-1031-5-ND	Serial Programmable Clock Source*	16-SOIC	5.80	4.66	4.25
ICS307M-02LFT	800-1798-1-ND	Serial Programmable Clock Source*	16-SOIC	6.21	5.08	4.56
ICS307M-02LFT	800-1798-2-ND	Serial Programmable Clock Source*	16-SOIC	6882.50/2,500		
ICS501MILF	800-1033-5-ND	PLL Clock Multiplier*	8-SOIC	2.79	2.25	2.03
ICS501MILFT	800-1034-1-ND	PLL Clock Multiplier*	8-SOIC	3.15	2.43	2.21
ICS501MILFT	800-1034-2-ND	PLL Clock Multiplier*	8-SOIC	3037.50/2,500		
ICS501MLF	800-1035-5-ND	PLL Clock Multiplier*	8-SOIC	2.02	1.63	1.47
ICS501MLFT	800-1036-1-ND	PLL Clock Multiplier*	8-SOIC	2.28	1.76	1.60
ICS501MLFT	800-1036-2-ND	PLL Clock Multiplier*	8-SOIC	2195.00/2,500		
ICS502MLF	800-1037-5-ND	PLL Clock Multiplier*	8-SOIC	2.33	1.88	1.69
ICS502MLFT	800-1038-1-ND	PLL Clock Multiplier*	8-SOIC	2.63	2.03	1.84
ICS502MLFT	800-1038-2-ND	PLL Clock Multiplier*	8-SOIC	2532.50/2,500		
ICS511MILF	800-1039-5-ND	PLL Clock Multiplier*	8-SOIC	3.08	2.48	2.26
ICS511MLF	800-1040-5-ND	PLL Clock Multiplier*	8-SOIC	2.70	2.18	1.96
ICS511MLFT	800-1041-1-ND	PLL Clock Multiplier*	8-SOIC	3.05	2.35	2.14
ICS512MILF	800-1042-5-ND	PLL Clock Multiplier*	8-SOIC	3.47	2.79	2.55

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICS512MILFT	800-1799-1-ND	PLL Clock Multiplier*	8-SOIC	3.72	3.04	2.73
ICS512MILFT	800-1799-2-ND	PLL Clock Multiplier*	8-SOIC	4122.50/2,500		
ICS512MLF	800-1043-5-ND	PLL Clock Multiplier*	8-SOIC	2.88	2.33	2.10
ICS512MLFT	800-1044-1-ND	PLL Clock Multiplier*	8-SOIC	3.26	2.52	2.28
ICS512MLFT	800-1044-2-ND	PLL Clock Multiplier*	8-SOIC	3140.00/2,500		
ICS514MLFT	800-1045-1-ND	PLL Clock Generator*	8-SOIC	2.73	2.11	1.92
ICS514MLFT	800-1045-2-ND	PLL Clock Generator*	8-SOIC	2632.50/2,500		
ICS525-01RILF	800-1046-5-ND	User Configurable Clock*	28-SSOP	4.40	3.54	3.22
ICS525-01RLF	800-1047-5-ND	User Configurable Clock*	28-SSOP	3.33	2.68	2.44
ICS525-01RLFT	800-1800-1-ND	User Configurable Clock	28-SSOP	3.57	2.98	2.50
ICS525R-02ILF	800-1048-5-ND	User Configurable Clock*	28-SSOP	5.80	4.66	4.25
ICS525R-02ILFT	800-1801-1-ND	User Configurable Clock*	28-SSOP	5.80	4.66	4.25
ICS525R-02ILFT	800-1801-2-ND	User Configurable Clock*	28-SSOP	6882.50/2,500		
ICS525R-03ILFT	800-1802-1-ND	PECL Input User Configurable Clock*	28-SSOP	8.72	7.76	6.14
ICS527R-01ILF	800-1049-5-ND	Clock Slicer User Configurable Zero Delay Buffer*	28-SSOP	10.25	8.41	7.59
ICS527R-01LF	800-1050-5-ND	Clock Slicer User Configurable Zero Delay Buffer*	28-SSOP	8.28	6.79	6.13
ICS527R-02LF	800-1051-5-ND	Clock Slicer User Configurable PECL Input Zero Delay Buffer*	28-SSOP	10.33	8.47	7.65
ICS542MILF	800-1052-5-ND	156MHz Clock Divider*	8-SOIC	3.70	2.97	2.71
ICS542MLF	800-1053-5-ND	156MHz Clock Divider*	8-SOIC	3.33	2.68	2.44
ICS542MLFT	800-1803-1-ND	156MHz Clock Divider*	8-SOIC	3.57	2.92	2.62
ICS542MLFT	800-1803-2-ND	156MHz Clock Divider*	8-SOIC	3957.50/2,500		
ICS551MILF	800-1054-5-ND	1:4 High Speed Clock Buffer*	8-SOIC	2.82	2.28	2.05
ICS551MILFT	800-1055-1-ND	1:4 High Speed Clock Buffer*	8-SOIC	3.19	2.46	2.23
ICS551MILFT	800-1055-2-ND	1:4 High Speed Clock Buffer*	8-SOIC	3072.50/2,500		
ICS551MLF	800-1056-5-ND	1:4 High Speed Clock Buffer*	8-SOIC	1.98	1.60	1.44
ICS551MLFT	800-1057-1-ND	1:4 High Speed Clock Buffer*	8-SOIC	2.24	1.73	1.57
ICS551MLFT	800-1057-2-ND	1:4 High Speed Clock Buffer*	8-SOIC	2160.00/2,500		
ICS552AR-01LF	800-1058-5-ND	Octal Oscillator/Multiplier/Buffer*	20-SSOP	4.26	3.42	3.12
ICS552ARI-01LF	800-1059-5-ND	Octal Oscillator/Multiplier/Buffer*	20-SSOP	5.12	4.12	3.76
ICS553MILF	800-1060-5-ND	1:4 Low Skew Clock Buffer*	8-SOIC	4.00	3.22	2.94
ICS553MILFT	800-1804-1-ND	1:4 Low Skew Clock Buffer*	8-SOIC	4.29	3.51	3.15
ICS553MILFT	800-1804-2-ND	1:4 Low Skew Clock Buffer*	8-SOIC	4755.00/2,500		
ICS553MIT	800-1805-1-ND	1:4 Low Skew Clock Buffer	8-SOIC	4.29	3.51	3.15
ICS553MIT	800-1805-2-ND	1:4 Low Skew Clock Buffer	8-SOIC	4755.00/2,500		
ICS553MLF	800-1061-5-ND	1:4 Low Skew Clock Buffer	8-SOIC	3.61	2.91	2.65
ICS557G-03LF	800-1062-5-ND	PCI Express™ Clock Source*	16-TSSOP	4.90	3.94	3.59
ICS557G-03LFT	800-1806-1-ND	PCI Express™ Clock Source*	16-TSSOP	5.25	4.29	3.85
ICS557G-03LFT	800-1806-2-ND	PCI Express™ Clock Source*	16-TSSOP	5820.00/2,500		
ICS557G-05ALF	800-1063-5-ND	Quad Differential PCI Express Clock Source*	20-TSSOP	7.43	6.09	5.50
ICS557G-06LF	800-1064-5-ND	1:4 HCSL Clock Buffer*	20-TSSOP	6.33	5.09	4.64
ICS557G-08LF	800-1065-5-ND	2:1 PCI Express™ Mux Chip*	16-TSSOP	6.45	5.29	4.78
ICS557GI-03LF	800-1066-5-ND	PCI Express™ Clock Source*	16-TSSOP	5.74	4.62	4.21
ICS557GI-05ALF	800-1067-5-ND	Quad Differential PCI Express Clock Source*	20-TSSOP	8.53	7.00	6.31
ICS557GI-06LF	800-1068-5-ND	1:4 HCSL Clock Buffer*	20-TSSOP	6.30	5.17	4.67
ICS557GI-08LF	800-1069-5-ND	2:1 PCI Express™ Mux Chip*	16-TSSOP	7.43	6.09	5.50
ICS557M-01LF	800-1070-5-ND	PCI Express™ Clock Source*	8-SOIC	4.54	3.65	3.33
ICS557MI-01LF	800-1071-5-ND	PCI Express™ Clock Source*	8-SOIC	5.21	4.19	3.82
ICS570BILF	800-1072-5-ND	Multiplier and Zero Delay Buffer*	8-SOIC	4.14	3.33	3.04
ICS570BILFT	800-1807-1-ND	Multiplier and Zero Delay Buffer*	8-SOIC	4.44	3.63	3.26
ICS570BILFT	800-1807-2-ND	Multiplier and Zero Delay Buffer*	8-SOIC	4920.00/2,500		
ICS570BLF	800-1073-5-ND	Multiplier and Zero Delay Buffer*	8-SOIC	3.25	2.61	2.38
ICS570BLFT	800-1808-1-ND	Multiplier and Zero Delay Buffer*	8-SOIC	3.48	2.85	2.56
ICS570BLFT	800-1808-2-ND	Multiplier and Zero Delay Buffer*	8-SOIC	3857.50/2,500		
ICS571MLF	800-1074-5-ND	Low Phase Noise Zero Delay Buffer*	8-SOIC	5.43	4.37	3.98
ICS571MLFT	800-1809-1-ND	Low Phase Noise Zero Delay Buffer*	8-SOIC	5.82	4.85	4.08
ICS574MILF	800-1075-5-ND	Low Skew Zero Delay Buffer*	8-SOIC	6.52	5.25	4.78
ICS574MLF	800-1076-5-ND	Low Skew Zero Delay Buffer*	8-SOIC	5.43	4.37	3.98
ICS574MLFT	800-1810-1-ND	Low Skew Zero Delay Buffer*	8-SOIC	5.43	4.37	3.98
ICS574MLFT	800-1810-2-ND	Low Skew Zero Delay Buffer*	8-SOIC	6450.00/2,500		
ICS580M-01ILF	800-1077-5-ND	Glitch-Free Clock Multiplexer*	16-SOIC	6.52	5.25	4.78
ICS581G-01ILF	800-1079-5-ND	Zero Delay Glitch-Free Clock Mux*	16-TSSOP	6.45	5.29	4.78
ICS581G-01LF	800-1080-5-ND	Zero Delay Glitch-Free Clock Mux*	16-TSSOP	5.80	4.66	4.25
ICS601G-01ILF	800-1081-5-ND	Low Phase Noise Clock Multiplier*	16-TSSOP	6.58	5.40	4.87
ICS601G-01LF	800-1082-5-ND	Low Phase Noise Clock Multiplier*	16-TSSOP	5.94	4.77	4.35
ICS601M-01ILF	800-1083-5-ND	Low Phase Noise Clock Multiplier*	16-SOIC	6.69	5.38	4.90
ICS601M-01ILFT	800-1811-1-ND	Low Phase Noise Clock Multiplier*	16-SOIC	6.69	5.38	4.90
ICS601M-01ILFT	800-1811-2-ND	Low Phase Noise Clock Multiplier*	16-SOIC	7947.50/2,500		
ICS601M-01LF	800-1084-5-ND	Low Phase Noise Clock Multiplier*	16-SOIC	5.63	4.53	4.13
ICS650R-01LF	800-1085-5-ND	System Peripheral Clock Synthesizer*	20-SSOP	5.43	4.37	3.98
ICS650R-21LFT	800-1812-1-ND	System Peripheral Clock Synthesizer*	20-SSOP	4.05	3.38	2.84
ICS650R-27ILFT	800-1813-1-ND	Networking Clock Synthesizer*	20-SSOP	5.31	4.43	3.72
ICS651MILF	800-1086-5-ND	Low Skew 1:4 Clock Buffer*	8-SOIC	4.14	3.33	3.04
ICS651MLF	800-1087-5-ND	Low Skew 1:4 Clock Buffer*	8-SOIC	3.61	2.91	2.65
ICS660GILF	800-1088-5-ND	Digital Video Clock Source*	16-TSSOP	5.43	4.37	3.98
ICS661GILF	800-1089-5-ND	Precision Audio Clock Source*	16-TSSOP	4.54	3.65	3.33
ICS661GILFT	800-1821-1-ND	Precision Audio Clock Source*	16-TSSOP	4.54	3.65	3.33
ICS661GILFT	800-1821-2-ND	Precision Audio Clock Source*	16-TSSOP	5387.50/2,500		
ICS663MILF	800-1090-5-ND	PLL Building Block*	8-SOIC	4.90	3.94	3.59
ICS663MLF	800-1091-5-ND	PLL Building Block*	8-SOIC	4.14	3.33	3.04
ICS664G-01LF	800-1092-5-ND	Digital Video Clock Source*	16-TSSOP	5.43	4.37	3.98
ICS670M-03ILF	800-1093-5-ND	Zero Delay Buffer/Multiplier*	16-SOIC	7.28	5.97	5.39
ICS673M-01LF	800-1094-5-ND	PLL Building Block*	16-SOIC	5.29	4.26	3.88
ICS728MLFT	800-1098-1-ND	27MHz, 3.3V VCXO*	8-SOIC	3.49	2.98	2.61
ICS728MLFT	800-1098-2-ND	27MHz, 3.3V VCXO*	8-SOIC	3140.00/2,500		
ICS932S421BGLFT	800-1232-1-ND	PCIe Gen 2 Main Clock for Intel-Based Servers*	56-TSSOP	6.75	5.52	4.95
ICS932S421BGLFT	800-1232-2-ND	PCIe Gen 2 Main Clock for Intel-Based Servers*	56-TSSOP	3150.00/1,000		
ICS932S422CGLFT	800-1233-1-ND	PCIe Gen 2 Main Clock for Intel-Based Servers*	56-TSSOP	6.75	5.52	4.95
ICS932S422CGLFT	800-1233-2-ND	PCIe Gen 2 Main Clock for Intel-Based Servers*	56-TSSOP	3150.00/1,000		
ICS1523MLF	800-1000-5-ND	Prog. I²C Video Clock Synthesizer*	24-SOIC	12.13	9.95	8.98
ICS1893BFLFT	800-1017-1-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	3.24	2.65	2.38
ICS1893BFLFT	800-1017-2-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver	48-SSOP	1512.00/1,000		
ICS1893BFT	800-1018-1-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver	48-SSOP	3.24	2.65	2.38

** RoHS Compliant*

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(Continued)

IDT DigiReel® (Cont.) CLOCKS AND TIMERS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICS1893BFT	800-1018-2-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	1512.00/1,000		
ICS1893BKILFT	800-1795-1-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	56-MLF2	7.55	6.20	5.59
ICS1893BKILFT	800-1795-2-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	56-MLF2	4077.00/1,000		
ICS1893BKLF	800-1019-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	56-MLF2	4.84	3.90	3.55
ICS1893CFILF	800-1020-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	3.50	2.82	2.57
ICS1893CFLF	800-1021-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	3.02	2.43	2.22
ICS1893CFLFT	800-1022-1-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	3.24	2.65	2.38
ICS1893CFLFT	800-1022-2-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	48-SSOP	1512.00/1,000		
ICS1893CKILF	800-1023-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	56-MLF2	7.55	6.20	5.59
ICS1893CKLF	800-1024-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	56-MLF2	4.84	3.90	3.55
ICS1893CY-10LF	800-1025-ND	3.3V 10Base-T/100Base-TX Integrated PHYceiver*	64-TQFP	4.51	3.63	3.31
ICS2008BY-10LF	800-1026-ND	Time Code Receiver/Generator*	44-TQFP	31.00	26.35	24.42
ICS2402MLF	800-1027-5-ND	Multiplier and Zero Delay Buffer*	8-SOIC	2.64	2.13	1.92
ICS3726M-02LF	800-1032-5-ND	24-36MHz, 12mA TTL Output VCXO*	8-SOIC	3.61	2.91	2.65
ICS7152AMI-11LFT	800-1095-1-ND	Spread Spectrum Clock Generator*	8-SOIC	2.45	1.89	1.72
ICS7152AMI-11LFT	800-1095-2-ND	Spread Spectrum Clock Generator*	8-SOIC	2362.50/2,500		
ICS7152MI-01LF	800-1096-5-ND	Spread Spectrum Clock Generator*	8-SOIC	2.17	1.75	1.58
ICS7152MI-11LF	800-1097-5-ND	Spread Spectrum Clock Generator*	8-SOIC	2.17	1.75	1.58
ICS9112AM-16LFT	800-1814-1-ND	Low Skew Output Buffer*	8-SOIC	3.45	2.82	2.53
ICS9112AM-16LFT	800-1814-2-ND	Low Skew Output Buffer*	8-SOIC	3825.00/2,500		
ICS9212AF-13LFT	800-1816-1-ND	Direct Rambus™ Clock Generator*	24-SSOP	5.94	4.86	4.36
ICS9212AF-13LFT	800-1816-2-ND	Direct Rambus™ Clock Generator*	24-SSOP	6582.50/2,500		
ICS9250CF-10LFT	800-1817-1-ND	Frequency Timing Generator*	56-SSOP	9.48	8.43	6.67
ICS950811AGLFT	800-1818-1-ND	Frequency Generator, 200MHz Differential CPU Clocks*	56-TSSOP	9.43	7.84	7.12
ICS950811AGLFT	800-1818-2-ND	Frequency Generator, 200MHz Differential CPU Clocks*	56-TSSOP	4806.00/1,000		
ICS952601EGLFT	800-1819-1-ND	Prog. Timing Control Hub™*	56-TSSOP	8.19	6.80	6.18
ICS952601EGLFT	800-1819-2-ND	Prog. Timing Control Hub™*	56-TSSOP	4172.00/1,000		
ICS954101DFLFT	800-1234-1-ND	Prog. Timing Control Hub™*	56-SSOP	6.90	5.64	5.06
ICS954101DFLFT	800-1234-2-ND	Prog. Timing Control Hub™*	56-SSOP	3220.00/1,000		
ICS954201BGLFT	800-1820-1-ND	Prog. Timing Control Hub™*	56-TSSOP	8.29	7.37	5.84
IDT5V551DCGI8	800-1839-1-ND	1:4 CMOS Clock Buffer*	8-SOIC	2.98	2.30	2.09
IDT5V551DCGI8	800-1839-2-ND	1:4 CMOS Clock Buffer*	8-SOIC	3444.00/3,000		
IDT5V2305PGGI8	800-1837-1-ND	2.5V to 3.3V Clock Buffer	16-TSSOP	3.63	2.97	2.67
IDT5V2305PGGI8	800-1837-2-ND	2.5V to 3.3V Clock Buffer	16-TSSOP	6436.00/4,000		
IDT5V2310PGGI8	800-1838-1-ND	2.5V to 3.3V Clock Buffer	24-TSSOP	4.50	3.68	3.30
IDT5V2310PGGI8	800-1838-2-ND	2.5V to 3.3V Clock Buffer	24-TSSOP	5985.00/3,000		
IDT23S05-1HDCGI8	800-1835-1-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	3.75	3.13	2.63
IDT23S05E-1DCG	800-1307-5-ND	3.3V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	3.39	2.73	2.49
IDT23S05E-1DCGI	800-1308-5-ND	3.3V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	5.12	4.12	3.76
IDT23S05E-1HDCG	800-1309-5-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	3.39	2.73	2.49
IDT23S05E-1HDCGI	800-1310-5-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	5.12	4.12	3.76
IDT23S05T-1DCG	800-1311-5-ND	2.5V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	3.39	2.73	2.49
IDT23S05T-1DCGI	800-1312-5-ND	2.5V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	8-SOIC	4.06	3.27	2.98
IDT23S08E-1DCG	800-1313-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-1DCGI	800-1314-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-1HDCG	800-1315-5-ND	3.3V ZD, High Drive PLL Clock Mulitplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-1HDCGI	800-1316-5-ND	3.3V ZD, High Drive PLL Clock Mulitplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-1HPGG	800-1317-5-ND	3.3V ZD, High Drive PLL Clock Mulitplier Spread Spectrum Compatible*	16-TSSOP	6.19	4.98	4.54
IDT23S08E-1HPGGI	800-1318-5-ND	3.3V ZD, High Drive PLL Clock Mulitplier Spread Spectrum Compatible*	16-TSSOP	7.78	6.38	5.76
IDT23S08E-2DCG	800-1319-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-2DCGI	800-1320-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-2HDCG	800-1321-5-ND	3.3V ZD, High Drive PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-2HDCGI	800-1322-5-ND	3.3V ZD, High Drive PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-3DCG	800-1323-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-3DCGI	800-1324-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-4DCG	800-1325-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-4DCGI	800-1326-5-ND	3.3V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08E-5HDCG	800-1327-5-ND	3.3V ZD, High Drive PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54
IDT23S08E-5HDCGI	800-1328-5-ND	3.3V ZD, High Drive PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	7.78	6.38	5.76
IDT23S08T-1DCG	800-1329-5-ND	2.5V Zero Delay, PLL Clock Multiplier Spread Spectrum Compatible*	16-SOIC	6.19	4.98	4.54

IDT DigiReel® (Cont.) CLOCKS AND TIMERS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IDT23S09E-1DCGI	800-1331-5-ND	3.3V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	16-SOIC	6.35	5.21	4.70
IDT23S09E-1HDCGI	800-1332-5-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	16-SOIC	6.35	5.21	4.70
IDT23S09E-1HPGG	800-1333-5-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	16-TSSOP	4.45	3.58	3.26
IDT23S09E-1HPGGI	800-1334-5-ND	3.3V ZD, High Drive PLL Clock Buffer Spread Spectrum Compatible*	16-TSSOP	6.35	5.21	4.70
IDT23S09T-1DCG	800-1335-5-ND	2.5V Zero Delay, PLL Clock Buffer Spread Spectrum Compatible*	16-SOIC	4.45	3.58	3.26
IDT49FCT805APYG	800-1353-5-ND	Fast CMOS Buffer/Clock Driver*	20-SSOP	5.08	4.09	3.73
IDT49FCT3805APYG	800-1336-5-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.35	1.08	.95
IDT49FCT3805APYG8	800-1337-1-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.46	1.16	1.04
IDT49FCT3805APYG8	800-1337-2-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	867.00/1,500		
IDT49FCT3805APYGI	800-1338-5-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.73	1.39	1.22
IDT49FCT3805APYGI8	800-1339-1-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.88	1.49	1.34
IDT49FCT3805APYGI8	800-1339-2-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1114.50/1,500		
IDT49FCT3805AQG	800-1340-5-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1.35	1.08	.95
IDT49FCT3805AQG8	800-1341-1-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1.46	1.16	1.04
IDT49FCT3805AQG8	800-1341-2-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1617.00/3,000		
IDT49FCT3805AQGI	800-1342-5-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1.73	1.39	1.22
IDT49FCT3805ASOG	800-1343-5-ND	3.3V CMOS Buffer/Clock Driver*	20-SOIC	1.88	1.52	1.37
IDT49FCT3805ASOG8	800-1344-1-ND	3.3V CMOS Buffer/Clock Driver*	20-SOIC	2.12	1.64	1.49
IDT49FCT3805ASOG8	800-1344-2-ND	3.3V CMOS Buffer/Clock Driver*	20-SOIC	877.00/1,000		
IDT49FCT3805DPYGI	800-1345-5-ND	3.3V CMOS Dual 1:5 Clock Driver*	20-SSOP	2.80	2.25	2.05
IDT49FCT3805DQGI	800-1346-5-ND	3.3V CMOS Dual 1:5 Clock Driver*	20-QSOP	2.80	2.25	2.05
IDT49FCT3805DQGI8	800-1836-1-ND	3.3V CMOS Dual 1:5 Clock Driver*	20-QSOP	3.00	2.50	2.10
IDT49FCT3805EPYGI	800-1347-5-ND	3.3V CMOS Dual 1:5 Clock Driver*	20-SSOP	5.60	4.50	4.10
IDT49FCT3805EQGI	800-1348-5-ND	3.3V CMOS Dual 1:5 Clock Driver*	20-QSOP	5.60	4.50	4.10
IDT49FCT3805PYG	800-1349-5-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.54	1.24	1.08
IDT49FCT3805PYG8	800-1350-1-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	1.67	1.32	1.19
IDT49FCT3805PYG8	800-1350-2-ND	3.3V CMOS Buffer/Clock Driver*	20-SSOP	990.00/1,500		
IDT49FCT3805QG	800-1351-5-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1.54	1.24	1.08
IDT49FCT3805QG8	800-1352-1-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1.67	1.32	1.19
IDT49FCT3805QG8	800-1352-2-ND	3.3V CMOS Buffer/Clock Driver*	20-QSOP	1848.00/3,000		
IDT74FCT807BTSOG	800-1650-5-ND	Fast CMOS 1:10 Clock Driver*	20-SOIC	3.85	3.10	2.82
IDT74FCT810BTPYG8	800-1861-1-ND	Fast CMOS Buffer/Clock Driver*	20-SSOP	6.86	6.10	4.83
IDT74FCT3807APYG	800-1628-5-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1.35	1.08	.95
IDT74FCT3807APYG8	800-1629-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1.46	1.16	1.04
IDT74FCT3807APYG8	800-1629-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	867.00/1,500		
IDT74FCT3807APYGI8	800-1630-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1.88	1.49	1.34
IDT74FCT3807APYGI8	800-1630-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1114.50/1,500		
IDT74FCT3807AQG	800-1631-5-ND	3.3V CMOS 1:10 Clock Driver*	20-QSOP	1.35	1.08	.95
IDT74FCT3807AQG8	800-1632-1-ND	3.3V CMOS 1:10 Clock Driver*	20-QSOP	1.46	1.16	1.04
IDT74FCT3807AQG8	800-1632-2-ND	3.3V CMOS 1:10 Clock Driver*	20-QSOP	1617.00/3,000		
IDT74FCT3807ASOG8	800-1633-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SOIC	2.12	1.64	1.49
IDT74FCT3807ASOG8	800-1633-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SOIC	877.00/1,000		
IDT74FCT3807DPYGI8	800-1634-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	3.00	2.45	2.20
IDT74FCT3807DPYGI8	800-1634-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	2100.00/1,500		
IDT74FCT3807EPYGI	800-1635-5-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	5.60	4.50	4.10
IDT74FCT3807EPYGI8	800-1860-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	6.00	5.00	4.20
IDT74FCT3807EQGI	800-1636-5-ND	3.3V CMOS 1:10 Clock Driver*	20-QSOP	5.60	4.50	4.10
IDT74FCT3807PYG8	800-1637-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1.46	1.16	1.04
IDT74FCT3807PYG8	800-1637-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	867.00/1,500		
IDT74FCT3807PYGI8	800-1638-1-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1.88	1.49	1.34
IDT74FCT3807PYGI8	800-1638-2-ND	3.3V CMOS 1:10 Clock Driver*	20-SSOP	1114.50/1,500		
IDT74FCT3807QG	800-1639-5-ND	3.3V CMOS 1:10 Clock Driver*	20-QSOP	1.35	1.08	.95
IDT74FCT38075DCGI	800-1627-5-ND	3.3V CMOS 1:5 Clock Driver*	8-SOIC	4.45	3.58	3.26
IDT2305-1DCG	800-1265-5-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.35	1.08	.95
IDT2305-1DCG8	800-1266-1-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.46	1.16	1.04
IDT2305-1DCG8	800-1266-2-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1617.00/3,000		
IDT2305-1DCGI	800-1267-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.81	1.45	1.27
IDT2305-1DCGI8	800-1268-1-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.81	1.40	1.27
IDT2305-1DCGI8	800-1268-2-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	2172.00/3,000		
IDT2305-1HDCG	800-1269-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.58	1.27	1.11
IDT2305-1HDCGI	800-1270-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.88	1.52	1.37
IDT2305-1HDCGI8	800-1271-1-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	2.27	1.94	1.70
IDT2305-1HDCGI8	800-1271-2-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	2451.00/3,000		
IDT2305A-1DCG	800-1272-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.35	1.08	.95
IDT2305A-1DCG8	800-1273-1-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.46	1.16	1.04
IDT2305A-1DCG8	800-1273-2-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1617.00/3,000		
IDT2305A-1DCGI	800-1274-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.81	1.45	1.27
IDT2305A-1DCGI8	800-1275-1-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.94	1.66	1.45
IDT2305A-1HDCG	800-1276-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.58	1.27	1.11
IDT2305A-1HDCG8	800-1277-1-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.71	1.36	1.22
IDT2305A-1HDCG8	800-1277-2-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1893.00/3,000		
IDT2305B-1DCG	800-1278-5-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.35	1.08	.95
IDT2305B-1DCGI	800-1279-5-ND	3.3V Zero Delay PLL Clock Buffer*	8-SOIC	1.81	1.45	1.27
IDT2305B-1HDCG	800-1280-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.58	1.27	1.11
IDT2305B-1HDCGI	800-1281-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	8-SOIC	1.88	1.52	1.37
IDT2308-1HDCG	800-1284-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-SOIC	1.71	1.38	1.24
IDT2308-1HDCG8	800-1830-1-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-SOIC	2.06	1.76	1.54
IDT2308-1HPG	800-1285-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-TSSOP	2.76	2.23	2.01
IDT2308-2DCG8	800-1831-1-ND	3.3V Zero Delay PLL Clock Multiplier*	16-SOIC	1.71	1.38	1.24
IDT2308-2DCG8	800-1831-2-ND	3.3V Zero Delay PLL Clock Multiplier*	16-SOIC	1857.50/2,500		
IDT2308-4DCG8	800-1832-1-ND	3.3V Zero Delay PLL Clock Multiplier	16-SOIC	3.34	2.86	2.50
IDT2308B-1DCG	800-1286-5-ND	3.3V Zero Delay PLL Clock Multiplier*	16-SOIC	1.71	1.38	1.24
IDT2308B-1DCGI	800-1287-5-ND	3.3V Zero Delay PLL Clock Multiplier	16-SOIC	3.14	2.53	2.28
IDT2308B-1HDCG	800-1288-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-SOIC	1.71	1.38	1.24

* RoHS Compliant

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(Continued)

IDT Digi-Reel® (Cont.) CLOCKS AND TIMERS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT2308B-1HDCGI	800-1289-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-SOIC	3.14	2.53	2.28
IDT2308B-1HPGG	800-1290-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-TSSOP	2.76	2.23	2.01
IDT2308B-1HPGGI	800-1291-5-ND	3.3V Zero Delay, High Drive PLL Clock Multiplier*	16-TSSOP	3.54	2.85	2.60
IDT2308B-2DCG	800-1292-5-ND	3.3V Zero Delay PLL Clock Multiplier*	16-SOIC	1.71	1.38	1.24
IDT2308B-4DCG	800-1295-5-ND	3.3V Zero Delay PLL Clock Multiplier*	16-SOIC	2.76	2.23	2.01
IDT2309-1HPGG	800-1296-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-TSSOP	3.14	2.53	2.28
IDT2309-1HPGI	800-1297-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16TSSOP	3.82	3.07	2.80
IDT2309A-1HDCG8	800-1298-1-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-SOIC	2.89	2.47	2.16
IDT2309A-1HDCG8	800-1298-2-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-SOIC	2600.00/2,500		
IDT2309B-1DCG	800-1299-5-ND	3.3V Zero Delay PLL Clock Buffer*	16-SOIC	2.39	1.93	1.74
IDT2309B-1HDCG	800-1300-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-SOIC	2.39	1.93	1.74
IDT2309B-1HDCGI	800-1301-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-SOIC	3.14	2.53	2.28
IDT2309B-1HPG	800-1302-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer	16-TSSOP	3.14	2.53	2.28
IDT2309B-1HPGG	800-1303-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-TSSOP	3.14	2.53	2.28
IDT2309B-1HPGGI	800-1304-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-TSSOP	3.82	3.07	2.80
IDT2309B-1HPGI	800-1305-5-ND	3.3V Zero Delay, High Drive PLL Clock Buffer*	16-TSSOP	3.82	3.07	2.80
IDT2309NZ-1HDCG8	800-1834-1-ND	9 Output, 3.3V Clock Buffer*	16-SOIC	6.15	5.13	4.31
IDT2309NZ-1HPGGI	800-1306-5-ND	9 Output, 3.3V Clock Buffer*	16-TSSOP	10.45	8.57	7.74
MK74CB218RLFTR	800-1880-1-ND	Dual 1-8 CMOS Clock Driver*	28-SSOP	7.35	6.13	5.15
MK1491-06RLF	800-1781-5-ND	AMD Geode™ Clock Source*	28-SSOP	6.08	4.89	4.45
MK1493-05GLFTR	800-1873-1-ND	Diff. Spread Spectrum Clock Driver*	16-TSSOP	6.97	6.20	4.91
MK1575-01GLFTR	800-1874-1-ND	Clock Recovery PLL*	16-TSSOP	7.53	6.18	5.57
MK1575-01GLFTR	800-1874-2-ND	Clock Recovery PLL*	16-TSSOP	9782.50/2,500		
MK1705ALFTR	800-1875-1-ND	ATI Low EMI Clock Generator*	8-SOIC	3.30	2.75	2.31
MK2058-01SILFTR	800-1876-1-ND	VCXO-Based Clock Jitter Attenuator*	20-SOIC	23.27	19.65	16.55
MK2069-01GILF	800-1782-5-ND	VCXO-Based Line Card Clock Synchronizer*	56-TSSOP	20.94	17.80	16.50
MK2069-04GILF	800-1783-5-ND	VCXO-Based Univ. Clock Translator*	56-TSSOP	31.00	26.35	24.42
MK2302S-01LFTR	800-1784-1-ND	Multiplier/Zero Delay Buffer*	8-SOIC	3.33	2.57	2.33
MK2302S-01LFTR	800-1784-2-ND	Multiplier/Zero Delay Buffer*	8-SOIC	3207.50/2,500		
MK2308G-1HLF	800-1785-5-ND	3.3V PLL Zero Delay Buffer*	16-TSSOP	3.33	2.68	2.44
MK2703BSLF	800-1786-5-ND	PLL Audio Clock Synthesizer*	8-SOIC	5.01	4.03	3.67
MK2703BSLFTR	800-1877-1-ND	PLL Audio Clock Synthesizer*	8-SOIC	5.37	4.39	3.94
MK2703BSLFTR	800-1877-2-ND	PLL Audio Clock Synthesizer*	8-SOIC	5952.50/2,500		
MK3721DLFTR	800-1878-1-ND	3.3V, 16.2-28MHz VCXO*	8-SOIC	3.12	2.60	2.19
MK3722GLF	800-1787-5-ND	VCXO/PLL Clock Synthesizer*	16-TSSOP	4.90	3.94	3.59
MK3722GLFTR	800-1879-1-ND	VCXO/STB Clock Synthesizer*	16-TSSOP	5.25	4.29	3.85
MK3722GLFTR	800-1879-2-ND	VCXO/STB Clock Synthesizer*	16-TSSOP	5820.00/2,500		
MK3727DLFTR	800-1788-1-ND	3.3V, 24-36MHz VCXO*	8-SOIC	3.38	2.88	2.52
MK3771-17RLF	800-1789-5-ND	VCXO/HDTV Clock Source*	28-SSOP	7.10	5.83	5.26
MK5811CMLF	800-1790-5-ND	Low EMI Clock Generator*	8-SOIC	4.00	3.22	2.94
MK5814CMLF	800-1791-5-ND	3.3V Clock Generator*	8-SOIC	4.00	3.22	2.94

IDT RDIMM

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ICS95V857AGLF	800-1235-5-ND	2.5V Wide Range Freq. Clock Driver	48-TSSOP	2.91	2.35	2.12
ICS97U877AHLF	800-1236-ND	1.8V Wide Range Freq. Clock Driver	52-BGA	4.48	3.60	3.28
ICS97ULP877BHLF	800-1237-ND	1.8V Low Power Wide Range Frequency Clock Driver	52-BGA	4.90	3.94	3.59
ICS98ULPA877AHLF	800-1238-ND	1.8V Low Power Wide Range Frequency Clock Driver	52-BGA	4.76	3.83	3.49
IDT74SSTU32864CBFG	800-1693-ND	Configurable Registered Buffer	96-LFBGA	3.42	2.75	2.51
IDT74SSTUBF32865ABKG	800-1694-ND	28-Bit 1:2 Registered Buffer	160-BGA	8.75	7.18	6.48
IDT74SSTUBF32866BBFG	800-1695-ND	25-Bit Configurable Registered Buffer for DDR2	96-BGA	4.48	3.60	3.28
IDT74SSTUBF32868ABKG	800-1696-ND	28-Bit Configurable Registered Buffer for DDR2	176-BGA	8.00	6.56	5.92
IDT74SSTUBF32869ABKG	800-1697-ND	14-Bit Configurable Registered Buffer for DDR2	150-BGA	8.75	7.18	6.48
IDT74SSTV16857PAG	800-1698-5-ND	14-Bit Registered Buffer with SSTL I/O	48-TSSOP	2.95	2.38	2.14
IDTCSP2510CPGG	800-1706-5-ND	3.3V PLL Clock Driver/Zero Delay Buffer	24-TSSOP	3.36	2.70	2.46
IDTCSPT857CNLG	800-1707-ND	2.5V-2.6V 1:10 PLL Differential SDRAM Clock Driver	40-VFQFPN	3.22	2.59	2.36
IDTCSPT857CPAG	800-1708-5-ND	2.5V-2.6V 1:10 PLL Differential SDRAM Clock Driver	48-TSSOP	2.80	2.25	2.05
IDTCSPU877ABVG	800-1709-ND	1.8V 1:10 PLL Differential SDRAM Clock Driver	52-VFBGA	4.76	3.83	3.49
IDTCSPUA877ABVG	800-1710-ND	1.8V 1:10 PLL Differential SDRAM Clock Driver	52-VFBGA	4.65	3.74	3.41
IDTSSTUB32866BHLF	800-1779-ND	25-Bit Configurable Registered Buffer for DDR2	96-LFBGA	4.20	3.38	3.08
IDTSSTVF16857AGLF	800-1780-5-ND	DDR Register	48-TSSOP	2.60	2.10	1.89

IDT Digi-Reel® SMP DUAL-PORTS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT70P257L55BYGI	800-1374-ND	128Kb (8Kx16) 1.8V Very Low Pwr*	100-BGA	39.24	33.36	30.91
IDT70P258L55BYGI	800-1375-ND	128Kb (8Kx16) 1.8V Very Low Pwr*	100-BGA	39.24	33.36	30.91
IDT70P9268L50BYGI	800-1376-ND	16Kx16, Synchronous 1.8V Very Low Power, M2I SRAM*	100-FBGA	33.24	28.26	26.18
IDT70T651S8BFG	800-1383-ND	9Mb (256Kx36) 2.5V Synchronous, High Speed SRAM*	208-FBGA	159.76	146.54	143.24
IDT70T651S10BFGI	800-1382-ND	9Mb (256Kx36) 2.5V Synchronous, High Speed SRAM*	208-FBGA	167.37	153.53	150.06
IDT70T3339S133BFI	800-1378-ND	9Mb (512Kx18) 2.5V Synchronous, High Speed SRAM*	208-FBGA	146.65	134.52	131.49

IDT Digi-Reel® (Cont.) SMP DUAL-PORTS

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT70T3509MS133BPG	800-1379-ND	36Mb (1024Kx36) 2.5V Synchronous, High Speed SRAM*	256-BGA	299.06	274.32	268.13
IDT70T3519S133BFGI	800-1380-ND	9Mb (256Kx36) 2.5V Synchronous, High Speed SRAM*	208-FBGA	159.38	146.20	142.90
IDT70T3539MS133BC	800-1381-ND	18Mb (512Kx36) 2.5V Synchronous, High Speed SRAM	256-BGA	199.38	182.88	178.75
IDT70V05S25PF	800-1384-ND	64Kb (8Kx8) 3.3V High Speed SRAM	64-TQFP	24.20	20.57	19.06
IDT70V06L15PFG	800-1385-ND	128Kb (16Kx8) 3.3V HS SRAM*	64-TQFP	36.34	30.89	28.62
IDT70V24L15PFG	800-1386-ND	64Kb (4Kx16) 3.3V LP SRAM*	100-TQFP	27.96	23.77	22.02
IDT70V25L15PFG	800-1388-ND	128Kb (8Kx16) 3.3V LP SRAM*	100-TQFP	36.34	30.89	28.62
IDT70V25L25PFGI	800-1389-ND	128Kb (8Kx16) 3.3V LP SRAM*	100-TQFP	36.34	30.89	28.62
IDT70V27L15PFG	800-1391-ND	512Kb (32Kx16) 3.3V LP SRAM*	100-TQFP	52.19	46.05	43.75
IDT70V27L35PFI	800-1392-ND	512Kb (32Kx16) 3.3V LP SRAM	100-TQFP	52.19	46.05	43.75
IDT70V28L15PFG	800-1393-ND	1024Kb (64Kx16) 3.3V LP SRAM*	100-TQFP	66.36	59.33	56.31
IDT70V261L25PFG	800-1390-ND	256Kb (16Kx16) 3.3V LP SRAM*	100-TQFP	39.72	34.36	32.21
IDT70V639S12BFGI	800-1397-ND	2304Kb (128Kx18) 3.3V Asynchronous SRAM*	208-FPBGA	104.06	92.69	87.81
IDT70V3569S6BFG	800-1394-ND	576Kb (16Kx36) 3.3V Sync. SRAM*	208-FBGA	53.96	47.61	45.23
IDT70V3599S166BFG	800-1396-ND	4Mb (128Kx36) 3.3V Sync. SRAM*	208-FPBGA	123.08	110.98	107.35
IDT70V9269S12PRFI	800-1399-ND	256Kb (16Kx16) 3.3V Sync. SRAM	128-TQFP	39.20	33.91	31.79
IDT70V9279S12PRF	800-1400-ND	512Kb (32Kx16) 3.3V Sync. SRAM	128-TQFP	46.32	40.07	37.56
IDT70V9289L9PFI	800-1401-ND	1024Kb (64Kx16) 3.3V Sync. SRAM	100-TQFP	59.21	52.25	49.64
IDT71V30L35TFI	800-1470-ND	8Kb (1Kx8) 35ns MASTER SRAM	64-STQFP	16.46	13.84	12.72
IDT71V321L25TFGI	800-1471-ND	16Kb (2Kx8) 25ns MASTER SRAM*	64-STQFP	21.60	18.36	17.01
IDT7005S35PFG	800-1357-5-ND	8Kx8, 35ns, High Speed SRAM*	64-TQFP	24.20	20.57	19.06
IDT7006L15PFG	800-1358-5-ND	16Kx8, 15ns, High Speed SRAM*	64-TQFP	36.34	30.89	28.62
IDT7006L20J	800-1359-5-ND	16Kx8, 20ns, High Speed SRAM	68-PLCC	33.04	28.09	26.02
IDT7008L20PFGI	800-1360-ND	64Kx8, 20ns, High Speed SRAM*	100-TQFP	52.19	46.05	43.75
IDT7009L15PFG	800-1361-ND	128Kx8, 15ns, High Speed SRAM*	100-TQFP	66.36	59.33	56.31
IDT7024L15PFG	800-1362-ND	4Kx16, 15ns, High Speed SRAM*	100-TQFP	27.96	23.77	22.02
IDT7025L15PFG	800-1364-ND	8Kx16, 15ns, High Speed SRAM*	100-TQFP	36.34	30.89	28.62
IDT7026L15JG	800-1366-5-ND	16Kx16, 15ns, High Speed SRAM*	84-PLCC	43.70	37.80	35.43
IDT7027S25PFI	800-1367-ND	32Kx16, 25ns, High Speed SRAM*	100-TQFP	54.09	46.79	43.86
IDT7028L15PF	800-1368-ND	64Kx16, 15ns, High Speed SRAM	100-TQFP	66.36	59.33	56.31
IDT7028L15PFG	800-1369-ND	64Kx16, 15ns, High Speed SRAM*	100-TQFP	66.36	59.33	56.31
IDT7130LA20JG	800-1436-5-ND	8Kb (1Kx8) 20ns MASTER SRAM*	52-PLCC	13.53	11.38	10.46
IDT7130LA25PFGI	800-1437-ND	8Kb (1Kx8) 25ns MASTER SRAM*	64-TQFP	15.86	13.34	12.26
IDT7130LA25TFGI	800-1438-ND	8Kb (1Kx8) 25ns MASTER SRAM*	64-STQFP	16.21	13.64	12.53
IDT7130LA35J	800-1439-5-ND	8Kb (1Kx8) 35ns MASTER SRAM	52-PLCC	11.80	9.68	8.74
IDT7130LA35TFG	800-1440-ND	8Kb (1Kx8) 35ns MASTER SRAM*	64-STQFP	13.64	11.47	10.54
IDT7132LA20JG	800-1442-5-ND	16Kb (2Kx8) 20ns MASTER SRAM*	52-PLCC	17.60	14.80	13.60
IDT7132SA55JI	800-1443-5-ND	16Kb (2Kx8) 55ns MASTER SRAM	52-PLCC	11.15	9.15	8.26
IDT7133SA35PFG	800-1444-ND	32Kb (2Kx16) 35ns MASTER SRAM*	100-TQFP	20.60	17.51	16.23
IDT7134SA55JG	800-1446-5-ND	32Kb (4Kx8) 55ns SRAM*	52-PLCC	12.43	10.46	9.61
IDT7140LA25JGI	800-1447-5-ND	8Kb (1Kx8) 25ns SLAVE SRAM*	52-PLCC	13.20	11.10	10.20
IDT7143LA20JG	800-1448-5-ND	32Kb (2Kx16) 20ns SLAVE SRAM*	68-PLCC	22.80	19.38	17.96
IDT70261L15PFG	800-1365-ND	16Kx16, 15ns, High Speed SRAM*	100-TQFP	43.70	37.80	35.43
IDT70914S20PF	800-1370-ND	36Kb (4Kx9) Sync., High Speed SRAM	80-TQFP	33.36	28.36	26.28
IDT71321SA25JG	800-1441-5-ND	16Kb (2Kx8) 25ns MASTER SRAM*	52-PLCC	14.30	12.03	11.05
IDT709269S12PF	800-1371-ND	256Kb (16Kx16) Sync., HS SRAM	100-TQFP	32.44	27.58	25.55
IDT709279S12PF	800-1372-ND	512Kb (32Kx16) Sync., HS SRAM	100-TQFP	39.02	33.75	31.64
IDT709349L9PF	800-1373-ND	72Kb (4Kx18) Sync., HS SRAM	100-TQFP	22.18	18.86	17.47

IDT FIFO

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT72V02L15JG	800-1506-5-ND	1Kx9-Bit, 3.3V CMOS Async., 15ns*	32-PLCC	11.73	9.62	8.68
IDT72V03L25J	800-1507-5-ND	2Kx9-Bit, 3.3V CMOS Async., 25ns	32-PLCC	11.55	9.72	8.93
IDT72V04L25J	800-1508-5-ND	4Kx9-Bit, 3.3V CMOS Async., 25ns	32-PLCC	14.01	11.79	10.83
IDT72V82L15PAG	800-1538-5-ND	Dual 1Kx9-Bit Async. 3.3V CMOS*	56-TSSOP	16.52	13.90	12.77
IDT72V85L20PA	800-1540-5-ND	Dual 8Kx9-Bit Async. 3.3V CMOS	56-TSSOP	29.06	24.71	22.89
IDT72V201L10PFG	800-1509-ND	256x9-Bit, 3.3V CMOS SyncFIFO™*	32-TQFP	15.29	12.86	11.82
IDT72V205L15TF	800-1510-ND	256x18-Bit, 3.3V CMOS SyncFIFO™	64-QFP	15.18	12.77	11.73
IDT72V211L15PFGI	800-1514-ND	512x9-Bit, 3.3V CMOS SyncFIFO™*	32-TQFP	17.60	14.80	13.60
IDT72V211L15PFI	800-1515-ND	512x9-Bit, 3.3V CMOS SyncFIFO™	32-TQFP	17.60	14.80	13.60
IDT72V221L15PFG	800-1516-ND	1Kx9-Bit, 3.3V CMOS SyncFIFO™*	32-QFP	17.49	14.71	13.52
IDT72V225L10TFG	800-1517-ND	1Kx18-Bit, 3.3V CMOS SyncFIFO™*	64-QFP	21.20	18.02	16.70
IDT72V241L10PF	800-1518-ND	4Kx9-Bit, 3.3V CMOS SyncFIFO™	32-QFP	24.40	20.74	19.22
IDT72V241L15J	800-1519-5-ND	4Kx9-Bit, 3.3V CMOS SyncFIFO™	32-PLCC	21.00	17.85	16.54
IDT72V245L10TFG	800-1520-ND	4Kx18-Bit, 3.3V CMOS SyncFIFO™*	64-QFP	28.00	23.80	22.05
IDT72V255LA10TFG	800-1522-ND	8Kx18-Bit, 3.3V CMOS SuperSync FIFO*	64-QFP	43.57	37.68	35.33
IDT72V271LA10PFG	800-1523-ND	32Kx9-Bit, 3.3V CMOS SuperSync FIFO*	64-TQFP	54.74	47.35	44.39
IDT72V273L10PFG	800-1524-ND	16Kx18-Bit / 32Kx9-Bit, 3.3V High Density SuperSync II FIFO*	80-TQFP	51.48	45.42	43.15
IDT72V293L7-5PF	800-1527-ND	65Kx18-Bit / 131Kx9-Bit, 3.3V High Density SuperSync II FIFO	80-TQFP	76.08	68.02	64.56
IDT72V295L10PFG	800-1528-ND	131Kx18-Bit, 3.3V High Density CMOS SuperSync FIFO*	64-TQFP	80.07	71.59	67.95
IDT72V841L15PFG	800-1539-ND	Dual 4Kx9-Bit 3.3V CMOS SyncFIFO*	64-TQFP	37.91	32.79	30.74
IDT72V2105L10PFG	800-1511-ND	262Kx18-Bit, 3.3V High Density CMOS SuperSync FIFO*	64-TQFP	108.69	96.81	91.71
IDT72V2111L15PFGI	800-1512-ND	524Kx9-Bit, 3.3V High Density CMOS SuperSync FIFO*	64-TQFP	108.69	96.81	91.71
IDT72V2113L7-5BCI	800-1513-ND	262Kx18-Bit / 524Kx9-Bit, 3.3V High Density SuperSync II FIFO	100-LBGA	119.86	106.75	101.13
IDT72V3640L7-5PFGI	800-1533-ND	1Kx36-Bit, 3.3V High Density SuperSync II FIFO*	128-TQFP	41.83	36.18	33.92
IDT72V3642L10PF	800-1534-ND	Dual Independent 1Kx36-Bit, 3.3V CMOS SyncBiFIFO	120-TQFP	43.62	37.73	35.37
IDT72V3660L6PFG	800-1535-ND	4Kx36-Bit, 3.3V High Density SuperSync II FIFO*	128-TQFP	50.62	43.78	41.04
IDT72V3670L10PF	800-1536-ND	8Kx36-Bit, 3.3V High Density SuperSync II FIFO	128-TQFP	56.70	50.03	47.53
IDT72V3680L6PFG	800-1537-ND	16Kx36-Bit, 3.3V High Density SuperSync II FIFO*	128-QFP	69.80	62.40	59.22
IDT72V36100L15PFI	800-1529-ND	65Kx36-Bit, 3.3V High Density SuperSync II FIFO	128-TQFP	80.07	71.59	67.95
IDT72V36110L6BB	800-1531-ND	131Kx36-Bit, 3.3V High Density SuperSync II FIFO	144-BGA	119.86	106.75	101.13

* *RoHS Compliant*

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(Continued)

IDT *(Cont.)* FIFO

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT72V36110L6PFG	800-1532-ND	131Kx36-Bit, 3.3V High Density SuperSync II FIFO*	128-QFP	119.86	106.75	101.13
IDT72V36110L10PF	800-1530-ND	131Kx36-Bit, 3.3V High Density SuperSync II FIFO	128-QFP	108.69	96.81	91.71
IDT7201LA15JG	800-1488-5-ND	512x9-Bit Dual-Port, Async., 15ns*	32-PLCC	8.05	6.61	5.96
IDT7202LA12JG	800-1489-5-ND	1Kx9-Bit Dual-Port, Async., 12ns*	32-PLCC	10.63	8.72	7.87
IDT7202LA15J	800-1490-5-ND	1Kx9-Bit Dual-Port, Async., 15ns	32-PLCC	7.15	5.87	5.30
IDT7202LA25JGI	800-1491-5-ND	1Kx9-Bit Dual-Port, Async., 25ns*	32-PLCC	8.63	7.08	6.39
IDT7204L12JG	800-1492-5-ND	4Kx9-Bit Dual-Port, Async., 12ns*	32-PLCC	15.07	12.68	11.65
IDT7204L12TPG	800-1493-5-ND	4Kx9-Bit Dual-Port, Async., 12ns*	28-DIP	15.07	12.68	11.65
IDT7283L15PAI	800-1503-5-ND	Dual 2Kx9-Bit CMOS Async., 15ns	56-TSSOP	21.14	17.97	16.65
IDT72211L10JG	800-1494-5-ND	512x9-Bit CMOS SyncFIFO™, 10ns*	32-PLCC	17.60	14.80	13.60
IDT72225LB10PFG	800-1495-ND	1Kx18-Bit CMOS SyncFIFO™, 10ns*	64-TQFP	21.20	18.02	16.70
IDT72231L10J	800-1496-5-ND	2Kx9-Bit CMOS SyncFIFO™, 10ns	32-PLCC	21.18	17.81	16.37
IDT72245LB10PFG	800-1497-ND	4Kx18-Bit CMOS SyncFIFO™, 10ns*	64-QFP	28.00	23.80	22.05
IDT72251L15PF	800-1498-ND	8Kx9-Bit CMOS SyncFIFO™, 15ns	32-QFP	24.20	20.57	19.06
IDT72255LA10PF	800-1499-ND	8Kx18-Bit CMOS SuperSync™ FIFO	64-QFP	43.57	37.68	35.33
IDT72255LA15PFG	800-1500-ND	8Kx18-Bit CMOS SuperSync™ FIFO*	64-QFP	41.50	35.89	33.65
IDT72265LA10PFG	800-1501-ND	16Kx18-Bit CMOS SuperSync™ FIFO*	64-QFP	51.48	45.42	43.15
IDT72285L10TF	800-1502-ND	65Kx18-Bit CMOS SuperSync™ FIFO	64-QFP	72.77	65.05	61.74
IDT72841L15PFG	800-1504-ND	Dual 4Kx9-Bit CMOS Async., 15ns*	64-QFP	33.18	28.21	26.13

IDT Digi-Reel® RAM

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT71V016SA10PHG8	800-1449-1-ND	1Mb (64Kx16) 10ns CMOS SRAM*	44-TSOP	3.39	2.62	2.38
IDT71V016SA10PHG8	800-1449-2-ND	1Mb (64Kx16) 10ns CMOS SRAM*	44-TSOP	2106.00/1,500		
IDT71V016SA12PHG	800-1450-5-ND	1Mb (64Kx16) 10ns CMOS SRAM*	44-TSOP	3.17	2.56	2.31
IDT71V016SA15PHG8	800-1452-1-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	3.39	2.62	2.38
IDT71V016SA15PHG8	800-1452-2-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	2106.00/1,500		
IDT71V016SA15PHGI8	800-1842-1-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	5.94	4.86	4.36
IDT71V016SA15PHGI8	800-1842-2-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	4158.00/1,500		
IDT71V016SA15YG8	800-1453-1-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-SOJ	3.58	2.77	2.46
IDT71V016SA15YG8	800-1453-2-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-SOJ	895.00/500		
IDT71V016SA20PHG8	800-1454-1-ND	1Mb (64Kx16) 20ns CMOS SRAM*	44-TSOP	3.58	2.77	2.46
IDT71V016SA20PHG8	800-1454-2-ND	1Mb (64Kx16) 20ns CMOS SRAM*	44-TSOP	2224.50/1,500		
IDT71V124SA10PHG8	800-1455-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-TSOP	3.40	2.78	2.50
IDT71V124SA10PHG8	800-1455-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-TSOP	2464.50/1,500		
IDT71V124SA10YG8	800-1456-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	3.58	2.77	2.46
IDT71V124SA10YG8	800-1456-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	1483.00/1,000		
IDT71V124SA10YGI8	800-1457-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	7.46	6.37	5.58
IDT71V124SA10YGI8	800-1457-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	2736.25/1,000		
IDT71V124SA12PHG8	800-1458-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-TSOP	3.40	2.78	2.50
IDT71V124SA12PHG8	800-1458-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-TSOP	2464.50/1,500		
IDT71V124SA12YG	800-1459-5-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	3.17	2.56	2.31
IDT71V124SA12YGI	800-1460-5-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	5.57	4.48	4.08
IDT71V124SA15TYG8	800-1461-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	3.07	2.51	2.26
IDT71V124SA15TYG8	800-1461-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	1483.00/1,000		
IDT71V124SA15YG8	800-1462-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	3.58	2.77	2.46
IDT71V124SA15YG8	800-1462-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	1483.00/1,000		
IDT71V124SA15YGI8	800-1463-1-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	6.97	5.38	4.78
IDT71V124SA15YGI8	800-1463-2-ND	1Mb (128x8) 3.3V CMOS SRAM*	32-SOJ	2786.00/1,000		
IDT71V256SA10YG	800-1464-5-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-SOJ	3.44	2.77	2.53
IDT71V256SA12PZG	800-1465-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-TSOP	4.06	3.27	2.98
IDT71V256SA12YG	800-1466-5-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-SOJ	2.22	1.79	1.61
IDT71V256SA15PZGI	800-1468-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-TSOP	4.45	3.58	3.26
IDT71V256SA15YG8	800-1469-1-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-SOJ	2.50	1.94	1.76
IDT71V256SA15YG8	800-1469-2-ND	256Kb (32Kx8) 3.3V CMOS SRAM*	28-SOJ	1037.00/1,000		
IDT71V416L10PHG	800-1476-5-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	7.08	5.70	5.19
IDT71V416L15BEG8	800-1846-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	48-BGA	8.78	7.80	6.18
IDT71V416L15PHG8	800-1847-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	7.36	6.01	5.40
IDT71V416L15PHG8	800-1847-2-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	5151.00/1,500		
IDT71V416S10PHG8	800-1848-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	7.36	6.01	5.40
IDT71V416S10PHG8	800-1848-2-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	5151.00/1,500		
IDT71V416S12PHG8	800-1849-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	6.70	5.57	5.06
IDT71V416S12PHG8	800-1849-2-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	5313.00/1,500		
IDT71V416S15PHG	800-1477-5-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	6.87	5.52	5.03
IDT71V416S15PHGI8	800-1850-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	6.70	5.57	5.06
IDT71V416S15PHGI8	800-1850-2-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-TSOP	5313.00/1,500		
IDT71V416S15YG8	800-1478-1-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-SOJ	7.36	6.01	5.40
IDT71V416S15YG8	800-1478-2-ND	4Mb (256Kx16) 3.3V CMOS SRAM*	44-SOJ	2036.00/500		
IDT71V424L15PHG	800-1479-5-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	8.25	6.77	6.11
IDT71V424L15PHGI8	800-1851-1-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	9.32	8.28	6.56
IDT71V424L15YGI8	800-1480-1-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	36-SOJ	9.46	7.86	7.14
IDT71V424L15YGI8	800-1480-2-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	36-SOJ	2767.00/500		
IDT71V424S10PHG	800-1481-5-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	7.08	5.70	5.19
IDT71V424S10YG8	800-1482-1-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	36-SOJ	6.70	5.57	5.06
IDT71V424S10YG8	800-1482-2-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	36-SOJ	2100.00/500		
IDT71V424S15PHG8	800-1852-1-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	8.62	6.66	5.92
IDT71V424S15PHGI8	800-1853-1-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	7.39	6.04	5.43
IDT71V424S15PHGI8	800-1853-2-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	44-TSOP	5175.00/1,500		
IDT71V424S15YGI	800-1483-5-ND	4Mb (512Kx8) 3.3V CMOS SRAM*	36-SOJ	8.13	6.67	6.02
IDT71V632S5PFG	800-1484-ND	64Kx32 3.3V, 5ns Sync. SRAM*	100-TQFP	7.36	5.92	5.39
IDT71V632S8PFG	800-1486-ND	64Kx32 3.3V, 8ns Sync. SRAM*	100-TQFP	7.36	5.92	5.39
IDT71V3556S166PFG8	800-1843-1-ND	128Kx36 Sync. ZBT™ 3.3V I/O*	100-TQFP	8.48	7.04	6.40
IDT71V3558S100PFG8	800-1844-1-ND	256Kx18 Sync. ZBT™ 3.3V I/O*	100-TQFP	8.16	6.78	6.16
IDT71V3576S133PFGI	800-1473-ND	128Kx36 Sync. 3.3V I/O 133MHZ*	100-TQFP	8.13	6.67	6.02
IDT71V3577S75PFG8	800-1845-1-ND	128Kx36 Sync. 3.3V I/O Sync.*	100-TQFP	7.58	6.30	5.72
IDT71V3577S75PFG8	800-1845-2-ND	128Kx36 Sync. 3.3V I/O Sync.*	100-TQFP	3861.00/1,000		
IDT71V3578S133PFG	800-1474-ND	256Kx36 Sync. 3.3V I/O 133MHZ*	100-TQFP	7.70	6.32	5.70
IDT71V3579S75PFG	800-1475-ND	256Kx18 Sync. 3.3V I/O Sync.*	100-TQFP	8.00	6.56	5.92
IDT71V35761S200PFG	800-1472-ND	128Kx36 Sync. 3.3V I/O 200MHz*	100-TQFP	7.15	5.87	5.30
IDT71V65603S133PFG8	800-1855-1-ND	256Kx36 Sync. ZBT™ 3.3V I/O	100-TQFP	17.31	14.68	13.55
IDT71V65603S133PFG8	800-1855-2-ND	256Kx36 Sync. ZBT™ 3.3V I/O	100-TQFP	10007.00/1,000		
IDT71V65703S75PFG	800-1487-ND	256Kx36 Sync. ZBT™ 3.3V I/O*	100-TQFP	16.55	13.92	12.80
IDT71V67703S75PFG8	800-1856-1-ND	256Kx36 3.3V, 7.5ns Sync. SRAM*	100-TQFP	21.82	17.31	16.56
IDT6116LA25SOG8	800-1354-1-ND	16Kb (2Kx8) 25ns CMOS SRAM*	24-SOIC	6.30	5.15	4.62
IDT6116LA25SOG8	800-1354-2-ND	16Kb (2Kx8) 25ns CMOS SRAM*	24-SOIC	2940.00/1,000		
IDT6116LA45SOG8	800-1355-1-ND	16Kb (2Kx8) 45ns CMOS SRAM*	24-SOIC	6.30	5.15	4.62
IDT7164S20YG8	800-1841-1-ND	64Kb (8Kx8) 20ns CMOS SRAM*	28-SOJ	6.90	5.64	5.06
IDT7164S20YG8	800-1841-2-ND	64Kb (8Kx8) 20ns CMOS SRAM*	28-SOJ	3219.00/1,000		
IDT71016S12PHG8	800-1402-1-ND	1Mb (64Kx16) 12ns CMOS SRAM*	44-TSOP	3.80	3.10	2.79
IDT71016S12PHG8	800-1402-2-ND	1Mb (64Kx16) 12ns CMOS SRAM*	44-TSOP	2656.50/1,500		
IDT71016S12YG8	800-1404-1-ND	1Mb (64Kx16) 12ns CMOS SRAM*	44-SOJ	3.80	3.10	2.79

IDT Digi-Reel® *(Cont.)* RAM

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT71016S12YG8	800-1404-2-ND	1Mb (64Kx16) 12ns CMOS SRAM*	44-SOJ	1050.00/500		
IDT71016S15PHGI8	800-1405-1-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	3.80	3.10	2.79
IDT71016S15PHGI8	800-1405-2-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-TSOP	2656.50/1,500		
IDT71016S15YG	800-1406-5-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-SOJ	3.54	2.85	2.60
IDT71016S15YGI8	800-1407-1-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-SOJ	4.50	3.68	3.30
IDT71016S15YGI8	800-1407-2-ND	1Mb (64Kx16) 15ns CMOS SRAM*	44-SOJ	1245.00/500		
IDT71016S20PHG8	800-1408-1-ND	1Mb (64Kx16) 20ns CMOS SRAM*	44-TSOP	3.80	3.10	2.79
IDT71016S20PHG8	800-1408-2-ND	1Mb (64Kx16) 20ns CMOS SRAM*	44-TSOP	2656.50/1,500		
IDT71016S20YG	800-1409-5-ND	1Mb (64Kx16) 20ns CMOS SRAM*	44-SOJ	3.54	2.85	2.60
IDT71024S12TYGI8	800-1410-1-ND	1Mb (128Kx8) 12ns CMOS SRAM*	32-SOJ	3.80	3.10	2.79
IDT71024S12TYGI8	800-1410-2-ND	1Mb (128Kx8) 12ns CMOS SRAM*	32-SOJ	1771.00/1,000		
IDT71024S12YG	800-1411-5-ND	1Mb (128Kx8) 12ns CMOS SRAM*	32-SOJ	3.54	2.85	2.60
IDT71024S15TYG8	800-1412-1-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	3.80	3.10	2.79
IDT71024S15TYG8	800-1412-2-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	1771.00/1,000		
IDT71024S15TYGI8	800-1413-1-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	4.13	3.37	3.03
IDT71024S15TYGI8	800-1413-2-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	1925.00/1,000		
IDT71024S15YG8	800-1414-1-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	3.80	3.10	2.79
IDT71024S15YG8	800-1414-2-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	1771.00/1,000		
IDT71024S15YGI8	800-1415-1-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	4.35	3.56	3.19
IDT71024S15YGI8	800-1415-2-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	2030.00/1,000		
IDT71024S20TYG8	800-1416-1-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	3.80	3.10	2.79
IDT71024S20TYG8	800-1416-2-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	1771.00/1,000		
IDT71024S20TYGI8	800-1417-1-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	4.81	3.72	3.30
IDT71024S20TYGI8	800-1417-2-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	1925.00/1,000		
IDT71024S20YG8	800-1418-1-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	4.05	3.31	2.97
IDT71024S20YG8	800-1418-2-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	1890.00/1,000		
IDT71024S20YGI	800-1419-5-ND	1Mb (128Kx8) 20ns CMOS SRAM*	32-SOJ	4.06	3.27	2.98
IDT71124S12YG	800-1420-5-ND	1Mb (128Kx8) 12ns CMOS SRAM*	32-SOJ	3.54	2.85	2.60
IDT71124S15YG	800-1422-5-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	3.54	2.85	2.60
IDT71124S15YGI	800-1423-5-ND	1Mb (128Kx8) 15ns CMOS SRAM*	32-SOJ	5.18	4.17	3.80
IDT71256L25YG8	800-1840-1-ND	256Kb (32Kx8) 25ns CMOS SRAM*	28-SOJ	8.05	6.21	5.52
IDT71256L25YGI	800-1424-5-ND	256Kb (32Kx8) 25ns CMOS SRAM*	28-SOJ	8.10	6.65	6.00
IDT71256L35YGI	800-1425-5-ND	256Kb (32Kx8) 35ns CMOS SRAM*	28-SOJ	8.10	6.65	6.00
IDT71256SA12YG8	800-1426-1-ND	256Kb (32Kx8) 12ns CMOS SRAM*	28-SOJ	2.50	1.94	1.76
IDT71256SA12YG8	800-1426-2-ND	256Kb (32Kx8) 12ns CMOS SRAM*	28-SOJ	1037.00/1,000		
IDT71256SA15YG	800-1427-5-ND	256Kb (32Kx8) 15ns CMOS SRAM*	28-SOJ	2.22	1.79	1.61
IDT71256SA15YGI8	800-1428-1-ND	256Kb (32Kx8) 15ns CMOS SRAM*	28-SOJ	2.50	1.94	1.76
IDT71256SA15YGI8	800-1428-2-ND	256Kb (32Kx8) 15ns CMOS SRAM*	28-SOJ	1037.00/1,000		
IDT71256SA20PZG8	800-1429-1-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-TSOP	6.30	5.25	4.41
IDT71256SA20TPG	800-1430-5-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-DIP	3.78	3.04	2.77
IDT71256SA20YG8	800-1431-1-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-SOJ	2.50	1.94	1.76
IDT71256SA20YG8	800-1431-2-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-SOJ	1037.00/1,000		
IDT71256SA20YGI8	800-1432-1-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-SOJ	2.50	1.94	1.76
IDT71256SA20YGI8	800-1432-2-ND	256Kb (32Kx8) 20ns CMOS SRAM*	28-SOJ	1037.00/1,000		
IDT71256SA25TPG	800-1433-5-ND	256Kb (32Kx8) 25ns CMOS SRAM*	28-DIP	3.78	3.04	2.77
IDT71256SA25TPGI	800-1434-5-ND	256Kb (32Kx8) 25ns CMOS SRAM*	28-DIP	5.07	4.08	3.72
IDT71256SA25YG	800-1435-5-ND	256Kb (32Kx8) 25ns CMOS SRAM*	28-SOJ	2.22	1.79	1.61

IDT Digi-Reel® LOGIC

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT72V8980JG	800-1541-5-ND	3.3V ST-BUS® Digital Switch*	44-PLCC	7.38	6.05	5.46
IDT72V8985JG	800-1542-5-ND	3.3V ST-BUS®/GCI Digital Switch*	44-PLCC	7.38	6.05	5.46
IDT72V90823PFG	800-1543-ND	3.3V ST-BUS®/GCI Non-Blocking Digital Switch*	100-TQFP	28.36	24.11	22.34
IDT74ALVC16244APAG8	800-1546-1-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Outputs*	48-TSSOP	1.88	1.49	1.34
IDT74ALVC16244APAG8	800-1546-2-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Outputs*	48-TSSOP	1386.00/2,000		
IDT74ALVC16245PAG8	800-1547-1-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Outputs*	48-TSSOP	2.63	2.03	1.84
IDT74ALVC16245PAG8	800-1547-2-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Outputs*	48-TSSOP	2026.00/2,000		
IDT74ALVC162244PAG	800-1544-5-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Outputs*	48-TSSOP	1.73	1.39	1.22
IDT74ALVC162245PAG8	800-1545-1-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Outputs*	48-TSSOP	1.88	1.49	1.34
IDT74ALVC162245PAG8	800-1545-2-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Outputs*	48-TSSOP	1386.00/2,000		
IDT74ALVC164245PAG8	800-1548-1-ND	16-Bit 3.3V-5V Level Shifting Transceiver, Tri-State Outputs*	48-TSSOP	1.88	1.49	1.34
IDT74ALVC164245PAG8	800-1548-2-ND	16-Bit 3.3V-5V Level Shifting Transceiver, Tri-State Outputs*	48-TSSOP	1386.00/2,000		
IDT74ALVC164245PVG8	800-1549-1-ND	16-Bit 3.3V-5V Level Shifting Transceiver, Tri-State Outputs*	48-SSOP	1.88	1.49	1.34
IDT74ALVC164245PVG8	800-1549-2-ND	16-Bit 3.3V-5V Level Shifting Transceiver, Tri-State Outputs*	48-SSOP	743.00/1,000		
IDT74ALVCH16244PAG	800-1553-5-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Output, Bus-Hold*	48-TSSOP	1.73	1.39	1.22
IDT74ALVCH16245PAG	800-1554-5-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Output, Bus-Hold*	48-TSSOP	1.73	1.39	1.22
IDT74ALVCH16260PAG8	800-1555-1-ND	3.3V CMOS 12-24-Bit Mux D-Type Latch, Tri-State Output, Bus-Hold*	56-TSSOP	1.88	1.49	1.34
IDT74ALVCH16260PAG8	800-1555-2-ND	3.3V CMOS 12-24-Bit Mux D-Type Latch, Tri-State Output, Bus-Hold*	56-TSSOP	1386.00/2,000		
IDT74ALVCH32244BFG	800-1557-ND	3.3V CMOS 32-Bit Buffer/Driver, Tri-State Output, Bus-Hold*	96-LFBGA	6.30	5.07	4.62
IDT74ALVCH32245BFG	800-1558-ND	3.3V CMOS 32-Bit Bus Transceiver, Tri-State Output, Bus-Hold*	96-LFBGA	6.30	5.07	4.62
IDT74ALVCH162244PAG8	800-1550-1-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Output, Bus-Hold*	48-TSSOP	1.88	1.49	1.34
IDT74ALVCH162244PAG8	800-1550-2-ND	3.3V CMOS 16-Bit Buffer/Driver, Tri-State Output, Bus-Hold*	48-TSSOP	1386.00/2,000		
IDT74ALVCH162245PAG	800-1551-5-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Output, Bus-Hold*	48-TSSOP	1.73	1.39	1.22
IDT74ALVCH162373PAG	800-1552-5-ND	16-Bit Transparent D-Type Latch, Tri-State Output, Bus-Hold*	48-TSSOP	1.73	1.39	1.22
IDT74ALVCHR162245PAG8	800-1559-1-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Output, Bus-Hold*	48-TSSOP	1.88	1.49	1.34
IDT74ALVCHR162245PAG8	800-1559-2-ND	3.3V CMOS 16-Bit Bus Transceiver, Tri-State Output, Bus-Hold*	48-TSSOP	1386.00/2,000		
IDT74CBTLV3125PGG	800-1563-5-ND	Low Voltage Quad Bus Switch*	14-TSSOP	1.23	.99	.87
IDT74CBTLV3125QG	800-1564-5-ND	Low Voltage Quad Bus Switch*	16-QSOP	.97	.76	.66
IDT74CBTLV3126PGG	800-1565-5-ND	Low Voltage Quad Bus Switch*	14-TSSOP	1.23	.99	.87
IDT74CBTLV3244PGG8	800-1566-1-ND	Low Voltage Octal Bus Switch*	20-TSSOP	1.46	1.16	1.04

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* *RoHS Compliant*

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IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT74CBTLV3244PGG8	800-1566-2-ND	Low Voltage Octal Bus Switch*	20-TSSOP	1617.00/3,000		
IDT74CBTLV3251QG	800-1567-5-ND	Low Voltage 8:1 Mux/Demux*	16-QSOP	.97	.76	.66
IDT74CBTLV3253PGG	800-1568-5-ND	Low Voltage, Dual 1:4 Mux/Demux*	16-TSSOP	1.16	.93	.81
IDT74CBTLV3253QG	800-1569-5-ND	Low Voltage, Dual 1:4 Mux/Demux*	16-QSOP	.97	.76	.66
IDT74CBTLV3257PGG	800-1570-5-ND	Quad 2:1 Mux/Demux Bus Switch*	16-TSSOP	1.16	.93	.81
IDT74CBTLV3257QG8	800-1571-1-ND	Quad 2:1 Mux/Demux Bus Switch*	16-QSOP	1.06	.83	.73
IDT74CBTLV3257QG8	800-1571-2-ND	Quad 2:1 Mux/Demux Bus Switch*	16-QSOP	1053.00/3,000		
IDT74CBTLV3384PGG	800-1572-5-ND	Low Voltage 10-Bit Bus Switch*	24-TSSOP	1.16	.93	.81
IDT74CBTLV3384QG8	800-1573-1-ND	Low Voltage 10-Bit Bus Switch*	24-QSOP	1.05	.83	.75
IDT74CBTLV3384QG8	800-1573-2-ND	Low Voltage 10-Bit Bus Switch*	24-QSOP	1155.00/3,000		
IDT74CBTLV3861PGG8	800-1574-1-ND	Low Voltage 10-Bit Bus Switch*	24-TSSOP	1.25	.99	.90
IDT74CBTLV3861PGG8	800-1574-2-ND	Low Voltage 10-Bit Bus Switch*	24-TSSOP	1386.00/3,000		
IDT74CBTLV3862PGG	800-1575-5-ND	Low Voltage 10-Bit Bus Switch*	24-TSSOP	2.54	2.05	1.85
IDT74CBTLV16211PAG8	800-1561-1-ND	Low Voltage 24-Bit Bus Switch*	56-TSSOP	3.08	2.38	2.16
IDT74CBTLV16211PAG8	800-1561-2-ND	Low Voltage 24-Bit Bus Switch*	56-TSSOP	2376.00/2,000		
IDT74CBTLV16245PAG8	800-1857-1-ND	Low Voltage 16-Bit Bus Switch*	48-TSSOP	6.12	5.10	4.29
IDT74CBTLV16800PAG	800-1562-5-ND	Low Voltage 20-Bit Bus Switch*	48-TSSOP	2.73	2.20	1.98
IDT74FCT157CTQG8	800-1577-1-ND	Fast CMOS Quad 2-Input Mux*	16-QSOP	1.09	.86	.78
IDT74FCT157CTQG8	800-1577-2-ND	Fast CMOS Quad 2-Input Mux*	16-QSOP	1200.00/3,000		
IDT74FCT162H245CTPAG8	800-1595-1-ND	Fast CMOS 16-Bit Bidirectional Transceiver, Bus-Hold*	48-TSSOP	1.67	1.32	1.19
IDT74FCT162H245CTPAG8	800-1595-2-ND	Fast CMOS 16-Bit Bidirectional Transceiver, Bus-Hold*	48-TSSOP	1232.00/2,000		
IDT74FCT244ATQG8	800-1613-1-ND	Fast CMOS Octal Buffer/Line Driver*	20-QSOP	1.09	.83	.73
IDT74FCT244ATSOG8	800-1614-1-ND	Fast CMOS Octal Buffer/Line Driver*	20-SOIC	.96	.76	.69
IDT74FCT244ATSOG8	800-1614-2-ND	Fast CMOS Octal Buffer/Line Driver*	20-SOIC	405.00/1,000		
IDT74FCT245ATPGG8	800-1615-1-ND	Fast CMOS Octal Bidirectional Xcvr*	20-TSSOP	1.34	1.06	.96
IDT74FCT245ATPGG8	800-1615-2-ND	Fast CMOS Octal Bidirectional Xcvr*	20-TSSOP	1479.00/3,000		
IDT74FCT245ATPYG8	800-1616-1-ND	Fast CMOS Octal Bidirectional Xcvr*	20-SSOP	1.01	.84	.74
IDT74FCT245ATPYG8	800-1616-2-ND	Fast CMOS Octal Bidirectional Xcvr*	20-SSOP	607.50/1,500		
IDT74FCT245ATSOG	800-1617-5-ND	Fast CMOS Octal Bidirectional Xcvr*	20-SOIC	1.01	.79	.69
IDT74FCT245CTQG8	800-1618-1-ND	Fast CMOS Octal Bidirectional Xcvr*	20-QSOP	.96	.76	.69
IDT74FCT245CTQG8	800-1618-2-ND	Fast CMOS Octal Bidirectional Xcvr*	20-QSOP	1101.00/3,000		
IDT74FCT521ATQG8	800-1640-1-ND	8-Bit Identity Comparator*	20-QSOP	2.81	2.40	2.10
IDT74FCT521ATQG8	800-1640-2-ND	8-Bit Identity Comparator*	20-QSOP	3039.00/3,000		
IDT74FCT521ATSOG8	800-1641-1-ND	8-Bit Identity Comparator*	20-SOIC	2.81	2.40	2.10
IDT74FCT521ATSOG8	800-1641-2-ND	8-Bit Identity Comparator*	20-SOIC	1088.00/1,000		
IDT74FCT540ATQG8	800-1642-1-ND	Fast CMOS Octal Buffer/Line Driver*	20-QSOP	1.23	1.02	.90
IDT74FCT540ATQG8	800-1642-2-ND	Fast CMOS Octal Buffer/Line Driver*	20-QSOP	1293.00/3,000		
IDT74FCT543CTQG8	800-1643-1-ND	Fast CMOS Octal Latched Xcvr.*	24-QSOP	1.06	.83	.73
IDT74FCT543CTQG8	800-1643-2-ND	Fast CMOS Octal Latched Xcvr.*	24-QSOP	1053.00/3,000		
IDT74FCT543CTSOG8	800-1644-1-ND	Fast CMOS Octal Latched Xcvr.*	24-SOIC	1.54	1.28	1.12
IDT74FCT543CTSOG8	800-1644-2-ND	Fast CMOS Octal Latched Xcvr.*	24-SOIC	578.00/1,000		
IDT74FCT573CTQG8	800-1645-1-ND	Fast CMOS Octal Transparent Latch*	20-QSOP	1.01	.84	.74
IDT74FCT573CTSOG8	800-1646-1-ND	Fast CMOS Octal Transparent Latch*	20-SOIC	.96	.76	.69
IDT74FCT573CTSOG8	800-1646-2-ND	Fast CMOS Octal Transparent Latch*	20-SOIC	405.00/1,000		
IDT74FCT574ATQG8	800-1647-1-ND	Fast CMOS Tri-St. Octal D Register*	20-QSOP	1.01	.84	.74
IDT74FCT574ATQG8	800-1647-2-ND	Fast CMOS Tri-St. Octal D Register*	20-QSOP	1101.00/3,000		
IDT74FCT574CTSOG	800-1648-5-ND	Fast CMOS Tri-St. Octal D Register*	20-SOIC	1.08	.87	.76
IDT74FCT621ATSOG8	800-1649-1-ND	Fast CMOS Octal Bus Transceiver*	20-SOIC	2.42	1.87	1.70
IDT74FCT621ATSOG8	800-1649-2-ND	Fast CMOS Octal Bus Transceiver*	20-SOIC	1001.00/1,000		
IDT74FCT823ATSOG8	800-1651-1-ND	CMOS Bus Interface Register*	24-SOIC	1.67	1.32	1.19
IDT74FCT823ATSOG8	800-1651-2-ND	CMOS Bus Interface Register*	24-SOIC	660.00/1,000		
IDT74FCT2244ATQG	800-1610-5-ND	Fast CMOS Octal Buffer/Line Driver*	20-QSOP	1.01	.79	.69
IDT74FCT2245ATSOG8	800-1611-1-ND	Fast CMOS Octal Bidirectional Xcvr*	20-SOIC	1.09	.86	.78
IDT74FCT2245ATSOG8	800-1611-2-ND	Fast CMOS Octal Bidirectional Xcvr*	20-SOIC	429.00/1,000		
IDT74FCT2245CTQG8	800-1612-1-ND	Fast CMOS Octal Bidirectional Xcvr*	20-QSOP	.96	.76	.69
IDT74FCT2245CTQG8	800-1612-2-ND	Fast CMOS Octal Bidirectional Xcvr*	20-QSOP	1101.00/3,000		
IDT74FCT3244APGG8	800-1619-1-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-TSSOP	1.75	1.35	1.23
IDT74FCT3244APGG8	800-1619-2-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-TSSOP	2025.00/3,000		
IDT74FCT3244APYG8	800-1620-1-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-SSOP	1.75	1.35	1.23
IDT74FCT3244APYG8	800-1620-2-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-SSOP	1087.50/1,500		
IDT74FCT3244AQG8	800-1621-1-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-QSOP	1.75	1.35	1.23
IDT74FCT3244AQG8	800-1621-2-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-QSOP	2025.00/3,000		
IDT74FCT3244ASOG	800-1622-5-ND	3.3V CMOS Octal Buffer/Line Dvr.*	20-SOIC	1.55	1.25	1.13
IDT74FCT3245APGG8	800-1623-1-ND	3.3V CMOS Octal Bidirectional Transceiver*	20-TSSOP	1.75	1.35	1.23
IDT74FCT3245APGG8	800-1623-2-ND	3.3V CMOS Octal Bidirectional Transceiver*	20-TSSOP	2025.00/3,000		
IDT74FCT3245AQG8	800-1624-1-ND	3.3V CMOS Octal Bidirectional Transceiver*	20-QSOP	1.75	1.35	1.23
IDT74FCT3245AQG8	800-1624-2-ND	3.3V CMOS Octal Bidirectional Transceiver*	20-QSOP	2025.00/3,000		
IDT74FCT16244CTPAG8	800-1588-1-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-TSSOP	1.42	1.13	1.01
IDT74FCT16244CTPAG8	800-1588-2-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-TSSOP	1048.00/2,000		
IDT74FCT16244CTPVG8	800-1589-1-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	1.76	1.46	1.28
IDT74FCT16244CTPVG8	800-1589-2-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	660.00/1,000		
IDT74FCT16245CTPAG	800-1590-5-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-TSSOP	1.31	1.05	.92
IDT74FCT16245CTPVG8	800-1591-1-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-SSOP	1.67	1.32	1.19
IDT74FCT16245CTPVG8	800-1591-2-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-SSOP	660.00/1,000		
IDT74FCT16245ETPVG	800-1592-5-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-SSOP	4.20	3.38	3.08
IDT74FCT16373CTPAG8	800-1602-1-ND	Fast CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	1.88	1.49	1.34
IDT74FCT16373CTPAG8	800-1602-2-ND	Fast CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	1386.00/2,000		
IDT74FCT16373CTPVG	800-1603-5-ND	Fast CMOS 16-Bit Transparent D-Type Latch*	48-SSOP	1.73	1.39	1.22
IDT74FCT16374CTPVG	800-1605-5-ND	Fast CMOS 16-Bit D-Type Tri-State Register*	48-SSOP	1.73	1.39	1.22
IDT74FCT16501CTPAG	800-1607-5-ND	Fast CMOS 18-Bit Registered Transceiver	56-TSSOP	3.24	2.62	2.36
IDT74FCT16543ATPVG	800-1608-5-ND	Fast CMOS 16-Bit Latched Transcvr.	56-SSOP	2.22	1.79	1.61
IDT74FCT16952CTPVG	800-1609-5-ND	Fast CMOS 16-Bit Registered Transceiver*	56-SSOP	2.22	1.79	1.61
IDT74FCT162244ATPAG	800-1578-5-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-TSSOP	1.31	1.05	.92
IDT74FCT162244ATPVG8	800-1579-1-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	1.67	1.32	1.19
IDT74FCT162244ATPVG8	800-1579-2-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	660.00/1,000		

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IDT74FCT162244CTPAG	800-1580-5-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-TSSOP	1.31	1.05	.92
IDT74FCT162244CTPVG8	800-1581-1-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	1.76	1.46	1.28
IDT74FCT162244CTPVG8	800-1581-2-ND	Fast CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	660.00/1,000		
IDT74FCT162245ATPAG	800-1582-5-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-TSSOP	1.31	1.05	.92
IDT74FCT162245ATPVG	800-1583-5-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-SSOP	1.54	1.24	1.08
IDT74FCT162245CTPAG8	800-1584-1-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-TSSOP	1.42	1.13	1.01
IDT74FCT162245CTPAG8	800-1584-2-ND	Fast CMOS 16-Bit Bidirectional Transceiver*	48-TSSOP	1048.00/2,000		
IDT74FCT162373CTPVG	800-1585-5-ND	Fast CMOS 16-Bit Transparent Latch*	48-SSOP	1.54	1.24	1.08
IDT74FCT162374ATPAG	800-1586-5-ND	Fast CMOS 16-Bit D-Type Tri-State Register*	48-TSSOP	1.31	1.05	.92
IDT74FCT162374ATPVG8	800-1587-1-ND	Fast CMOS 16-Bit D-Type Tri-State Register*	48-SSOP	1.67	1.32	1.19
IDT74FCT162374ATPVG8	800-1587-2-ND	Fast CMOS 16-Bit D-Type Tri-State Register*	48-SSOP	660.00/1,000		
IDT74FCT162511CTPAG8	800-1858-1-ND	Fast CMOS 16-Bit Registered/ Latched Transceiver with Parity*	56-TSSOP	4.56	3.73	3.35
IDT74FCT162511CTPAG8	800-1858-2-ND	Fast CMOS 16-Bit Registered/ Latched Transceiver with Parity*	56-TSSOP	4044.00/2,000		
IDT74FCT162511CTPVG8	800-1593-1-ND	Fast CMOS 16-Bit Registered/ Latched Transceiver with Parity*	56-SSOP	5.32	4.11	3.65
IDT74FCT162511CTPVG8	800-1593-2-ND	Fast CMOS 16-Bit Registered/ Latched Transceiver with Parity*	56-SSOP	2128.00/1,000		
IDT74FCT162823CTPVG	800-1594-5-ND	Fast CMOS 18-Bit Register*	56-SSOP	1.71	1.38	1.24
IDT74FCT163244CPAG	800-1596-5-ND	3.3V CMOS 16-Bit Buffer/Line Dvr.*	48-TSSOP	2.64	2.13	1.92
IDT74FCT163244CPVG	800-1597-5-ND	3.3V CMOS 16-Bit Buffer/Line Dvr.*	48-SSOP	2.64	2.13	1.92
IDT74FCT163245CPAG	800-1598-5-ND	3.3V CMOS 16-Bit Bidirectional Transceiver*	48-TSSOP	2.64	2.13	1.92
IDT74FCT163245CPVG	800-1599-5-ND	3.3V CMOS 16-Bit Bidirectional Transceiver*	48-SSOP	2.64	2.13	1.92
IDT74FCT163373CPAG	800-1600-5-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	2.64	2.13	1.92
IDT74FCT163374CPAG8	800-1601-1-ND	3.3V CMOS 16-Bit D-Type Tri-State Register*	48-TSSOP	3.19	2.72	2.38
IDT74FCT163374CPAG8	800-1601-2-ND	3.3V CMOS 16-Bit D-Type Tri-State Register*	48-TSSOP	2296.00/2,000		
IDT74FCT164245TPAG8	800-1859-1-ND	Fast CMOS 16-Bit 3.3V-5V Bidirectional Translator*	48-TSSOP	3.78	3.09	2.78
IDT74FCT164245TPAG8	800-1859-2-ND	Fast CMOS 16-Bit 3.3V-5V Bidirectional Translator*	48-TSSOP	3352.00/2,000		
IDT74FCT164245TPVG8	800-1606-1-ND	Fast CMOS 16-Bit 3.3V-5V Bidirectional Translator*	48-SSOP	3.78	3.09	2.78
IDT74FCT164245TPVG8	800-1606-2-ND	Fast CMOS 16-Bit 3.3V-5V Bidirectional Translator*	48-SSOP	1764.00/1,000		
IDT74FST6800PGG	800-1653-5-ND	10-Bit Bus Switch with Precharged Outputs*	24-TSSOP	1.54	1.24	1.08
IDT74FST163245PAG8	800-1652-1-ND	16-Bit Bus Switch*	48-TSSOP	3.00	2.56	2.24
IDT74LVC244APGG8	800-1666-1-ND	3.3V CMOS Octal Buffer/Driver*	20-TSSOP	1.52	1.20	1.08
IDT74LVC244APGG8	800-1666-2-ND	3.3V CMOS Octal Buffer/Driver*	20-TSSOP	1680.00/3,000		
IDT74LVC244APYG	800-1667-5-ND	3.3V CMOS Octal Buffer/Driver*	20-SSOP	1.40	1.12	.98
IDT74LVC245APGG8	800-1670-1-ND	3.3V CMOS Octal Bus Transceiver*	20-TSSOP	1.52	1.20	1.08
IDT74LVC245AQG8	800-1671-1-ND	3.3V CMOS Octal Bus Transceiver*	20-QSOP	1.33	1.05	.95
IDT74LVC245ASOG	800-1672-5-ND	3.3V CMOS Octal Bus Transceiver	20-SOIC	1.40	1.12	.98
IDT74LVC273APGG8	800-1673-1-ND	3.3V CMOS Octal D-type Flip-Flop*	20-TSSOP	1.52	1.20	1.08
IDT74LVC273APGG8	800-1673-2-ND	3.3V CMOS Octal D-type Flip-Flop*	20-TSSOP	1680.00/3,000		
IDT74LVC541AQG8	800-1674-1-ND	3.3V CMOS Octal Buffer/Driver*	20-QSOP	1.33	1.05	.95
IDT74LVC541AQG8	800-1674-2-ND	3.3V CMOS Octal Buffer/Driver*	20-QSOP	1470.00/3,000		
IDT74LVC16244APAG8	800-1658-1-ND	3.3V CMOS 16-Bit Buffer/Driver*	48-TSSOP	1.67	1.32	1.19
IDT74LVC16244APAG8	800-1658-2-ND	3.3V CMOS 16-Bit Buffer/Driver*	48-TSSOP	1232.00/2,000		
IDT74LVC16245APAG8	800-1659-1-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.67	1.32	1.19
IDT74LVC16245APAG8	800-1659-2-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1232.00/2,000		
IDT74LVC16245APVG	800-1660-5-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-SSOP	1.54	1.24	1.08
IDT74LVC16373APAG	800-1661-5-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	1.54	1.24	1.08
IDT74LVC16374APAG	800-1662-5-ND	3.3V CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.54	1.24	1.08
IDT74LVC16827APAG8	800-1665-1-ND	3.3V CMOS 20-Bit Buffer*	56-TSSOP	3.15	2.43	2.21
IDT74LVC16827APAG8	800-1665-2-ND	3.3V CMOS 20-Bit Buffer*	56-TSSOP	2430.00/2,000		
IDT74LVC162244APAG	800-1654-5-ND	3.3V CMOS 16-Bit Buffer/Driver*	48-TSSOP	1.54	1.24	1.08
IDT74LVC162245APAG8	800-1655-1-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.67	1.32	1.19
IDT74LVC162245APAG8	800-1655-2-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1232.00/2,000		
IDT74LVC162245APFG	800-1656-5-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TVSOP	2.94	2.37	2.16
IDT74LVC162245APVG	800-1657-5-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-SSOP	1.54	1.24	1.08
IDT74LVCC3245APGG	800-1675-5-ND	Adj. CMOS Octal Bus Transceiver*	24-TSSOP	1.71	1.38	1.24
IDT74LVCH16244APAG	800-1683-5-ND	3.3V CMOS 16-Bit Buffer/Driver*	48-TSSOP	1.54	1.24	1.08
IDT74LVCH16245APAG	800-1685-5-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.54	1.24	1.08
IDT74LVCH16245APVG8	800-1686-1-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-SSOP	1.67	1.32	1.19
IDT74LVCH16245APVG8	800-1686-2-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-SSOP	660.00/1,000		
IDT74LVCH16374APAG	800-1687-5-ND	3.3V CMOS 16-Bit D-Type F/F*	48-TSSOP	1.54	1.24	1.08
IDT74LVCH16374APVG	800-1688-5-ND	3.3V CMOS 16-Bit D-Type F/F*	48-SSOP	1.54	1.24	1.08
IDT74LVCH16543APAG	800-1689-5-ND	3.3V CMOS 16-Bit Registered Xcvr.*	56-TSSOP	2.64	2.13	1.92
IDT74LVCH32245ABF8	800-1862-1-ND	3.3V CMOS 32-Bit Bus Transceiver*	96-LFBGA	5.25	4.38	3.68
IDT74LVCH32245ABFG	800-1690-ND	3.3V CMOS 32-Bit Bus Transceiver*	96-LFBGA	4.90	3.94	3.59
IDT74LVCH162244APAG	800-1676-5-ND	3.3V CMOS 16-Bit Buffer/Driver*	48-TSSOP	1.54	1.24	1.08
IDT74LVCH162373APAG8	800-1678-1-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	1.67	1.32	1.19
IDT74LVCH162373APAG8	800-1678-2-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-TSSOP	1232.00/2,000		
IDT74LVCH162373APVG8	800-1679-1-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-SSOP	1.67	1.32	1.19
IDT74LVCH162373APVG8	800-1679-2-ND	3.3V CMOS 16-Bit Transparent D-Type Latch*	48-SSOP	660.00/1,000		
IDT74LVCH162374APA8	800-1680-1-ND	3.3V CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	3.19	2.72	2.38
IDT74LVCH162374APAG	800-1682-5-ND	3.3V CMOS 16-Bit D-Type F/F*	48-TSSOP	1.54	1.24	1.08
IDT74LVCR162245APAG8	800-1692-1-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	2.19	1.87	1.64
IDT74LVCR162245APAG8	800-1692-2-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	1574.00/2,000		
IDT74LVCHR162245APAG8	800-1691-1-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	2.63	2.03	1.84
IDT74LVCHR162245APAG8	800-1691-2-ND	3.3V CMOS 16-Bit Bus Transceiver*	48-TSSOP	2026.00/2,000		
IDTQS3L384QG8	800-1749-1-ND	High Speed, Low Power 10-Bit Bus Exchange Switch*	24-QSOP	.87	.68	.60

* RoHS Compliant

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(Continued)

IDT DigiReel® (Cont.) LOGIC

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IDTQS3L384QG8	800-1749-2-ND	High Speed, Low Power 10-Bit Bus Exchange Switch*	24-QSOP	861.00/3,000		
IDTQS3VH125QG8	800-1750-1-ND	2.5V/3.3V Quad Active Low, High Bandwidth Bus Switch*	16-QSOP	1.05	.83	.75
IDTQS3VH125QG8	800-1750-2-ND	2.5V/3.3V Quad Active Low, High Bandwidth Bus Switch*	16-QSOP	1155.00/3,000		
IDTQS3VH125S1G	800-1751-5-ND	2.5V/3.3V Quad Active Low, High Bandwidth Bus Switch*	14-SOIC	1.16	.93	.81
IDTQS3VH126QG8	800-1752-1-ND	2.5V/3.3V Quad Active High, High Bandwidth Bus Switch*	16-QSOP	1.05	.83	.75
IDTQS3VH126QG8	800-1752-2-ND	2.5V/3.3V Quad Active High, High Bandwidth Bus Switch*	16-QSOP	1155.00/3,000		
IDTQS3VH126S1G	800-1753-5-ND	2.5V/3.3V Quad Active High, High Bandwidth Bus Switch*	14-SOIC	1.55	1.25	1.13
IDTQS3VH244PAG8	800-1759-1-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-TSSOP	1.75	1.35	1.23
IDTQS3VH244PAG8	800-1759-2-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-TSSOP	2025.00/3,000		
IDTQS3VH245PAG8	800-1760-1-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-TSSOP	1.25	.99	.90
IDTQS3VH245PAG8	800-1760-2-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-TSSOP	1386.00/3,000		
IDTQS3VH245QG8	800-1761-1-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-QSOP	1.05	.83	.75
IDTQS3VH245QG8	800-1761-2-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-QSOP	1155.00/3,000		
IDTQS3VH251PAG	800-1762-5-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-TSSOP	1.55	1.25	1.13
IDTQS3VH251QG	800-1763-5-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-QSOP	1.58	1.26	1.11
IDTQS3VH253PAG8	800-1764-1-ND	2.5V/3.3V Dual 4:1 Mux/Demux High Bandwidth Bus Switch*	16-TSSOP	1.75	1.35	1.23
IDTQS3VH253PAG8	800-1764-2-ND	2.5V/3.3V Dual 4:1 Mux/Demux High Bandwidth Bus Switch*	16-TSSOP	2700.00/4,000		
IDTQS3VH253QG8	800-1765-1-ND	2.5V/3.3V Dual 4:1 Mux/Demux High Bandwidth Bus Switch*	16-QSOP	1.71	1.35	1.22
IDTQS3VH253QG8	800-1765-2-ND	2.5V/3.3V Dual 4:1 Mux/Demux High Bandwidth Bus Switch*	16-QSOP	1890.00/3,000		
IDTQS3VH257PAG8	800-1766-1-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-TSSOP	1.05	.83	.75
IDTQS3VH257PAG8	800-1766-2-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-TSSOP	1540.00/4,000		
IDTQS3VH257QG8	800-1767-1-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-QSOP	.97	.75	.66
IDTQS3VH257QG8	800-1767-2-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-QSOP	957.00/3,000		
IDTQS3VH257S1G8	800-1768-1-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-SOIC	1.06	.83	.73
IDTQS3VH257S1G8	800-1768-2-ND	2.5V/3.3V Quad 2:1 Mux/Demux High Bandwidth Bus Switch*	16-SOIC	877.50/2,500		
IDTQS3VH384PAG8	800-1769-1-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-TSSOP	1.75	1.35	1.23
IDTQS3VH384PAG8	800-1769-2-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-TSSOP	2025.00/3,000		
IDTQS3VH384QG	800-1770-5-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-QSOP	1.55	1.25	1.13
IDTQS3VH800PAG8	800-1771-1-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-TSSOP	1.32	1.09	.96
IDTQS3VH800PAG8	800-1771-2-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-TSSOP	1386.00/3,000		
IDTQS3VH800QG	800-1772-5-ND	2.5V/3.3V 10-Bit High Bandwidth Bus Switch*	24-QSOP	.96	.77	.68
IDTQS3VH861QG	800-1773-5-ND	2.5V/3.3V 10-Bit Flow-Through Pin Out, High Bandwidth Bus Switch*	24-QSOP	.96	.77	.68
IDTQS3VH862QG	800-1774-5-ND	2.5V/3.3V 10-Bit High/Low Enable, High Bandwidth Bus Switch*	24-QSOP	2.73	2.20	1.98
IDTQS3VH2245PAG	800-1757-5-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-TSSOP	1.71	1.38	1.24
IDTQS3VH2245QG	800-1758-5-ND	2.5V/3.3V 8-Bit High Bandwidth Bus Switch*	20-QSOP	1.71	1.38	1.24
IDTQS3VH16210PAG	800-1754-5-ND	2.5V/3.3V 20-Bit 2-Port, High Bandwidth Bus Switch*	48-TSSOP	3.50	2.82	2.57
IDTQS3VH16211PAG8	800-1867-1-ND	2.5V/3.3V 24-Bit High Bandwidth Bus Switch*	56-TSSOP	3.75	3.07	2.75
IDTQS3VH16211PAG8	800-1867-2-ND	2.5V/3.3V 24-Bit High Bandwidth Bus Switch*	56-TSSOP	3326.00/2,000		
IDTQS3VH16212PAG	800-1755-5-ND	2.5V/3.3V 24-Bit Bus Exchange High Bandwidth Bus Switch*	56-TSSOP	3.50	2.82	2.57
IDTQS3VH16233PAG8	800-1868-1-ND	2.5V/3.3V 32:16 Mux/Demux High Bandwidth Bus Switch*	56-TSSOP	4.50	3.68	3.30
IDTQS3VH16233PAG8	800-1868-2-ND	2.5V/3.3V 32:16 Mux/Demux High Bandwidth Bus Switch*	56-TSSOP	3990.00/2,000		
IDTQS3VH16244PAG8	800-1869-1-ND	2.5V/3.3V 16-Bit High Bandwidth Bus Switch*	48-TSSOP	4.20	3.38	3.08
IDTQS3VH16244PAG8	800-1869-2-ND	2.5V/3.3V 16-Bit High Bandwidth Bus Switch*	48-TSSOP	3990.00/2,000		
IDTQS3VH16245PAG8	800-1870-1-ND	2.5V/3.3V 16-Bit High Bandwidth Bus Switch*	48-TSSOP	4.50	3.75	3.15
IDTQS3VH16245PAG8	800-1870-2-ND	2.5V/3.3V 16-Bit High Bandwidth Bus Switch*	48-TSSOP	3990.00/2,000		
IDTQS3VH16861PAG	800-1756-5-ND	2.5V/3.3V 20-Bit Flow-Through Pin Out, High Bandwidth Bus Switch*	48-TSSOP	3.50	2.82	2.57
IDTQS4A101QG	800-1775-5-ND	High Performance CMOS Analog 4-Channel SPST Switch*	16-QSOP	3.08	2.48	2.26
IDTQS4A105QG8	800-1871-1-ND	High Performance CMOS 2-Channel 4PST Switch*	20-QSOP	3.53	2.84	2.59
IDTQS4A105QG8	800-1871-2-ND	High Performance CMOS 2-Channel 4PST Switch*	20-QSOP	5028.00/3,000		
IDTQS4A110QG	800-1776-5-ND	High Performance CMOS 2-Channel 5PST Switch*	24-QSOP	4.45	3.58	3.26
IDTQS4A205QG	800-1777-5-ND	High Performance CMOS Analog 4-Channel SPST Mux/Demux*	16-QSOP	4.06	3.27	2.98
IDTQS4A210QG	800-1778-5-ND	High Performance CMOS 2-Channel SP4T Mux/Demux*	16-QSOP	3.39	2.73	2.49
IDTQS32X245Q2G	800-1731-5-ND	High Speed CMOS Double-Width Bus Switch*	40-QVSOP	1.81	1.46	1.32
IDTQS32X384Q1G8	800-1732-1-ND	HS CMOS 20-Bit Bus Switch*	48-QVSOP	2.48	2.12	1.85
IDTQS32X861Q1G8	800-1733-1-ND	HS CMOS 20-Bit Bus Switch*	48-QVSOP	2.63	2.03	1.84

IDT DigiReel® (Cont.) LOGIC

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IDTQS32X861Q1G8	800-1733-2-ND	HS CMOS 20-Bit Bus Switch*	48-QVSOP	2026.00/2,000		
IDTQS32X2245Q2G8	800-1729-1-ND	High Speed CMOS Double-Width Bus Switch*	40-QVSOP	1.93	1.49	1.35
IDTQS32X2245Q2G8	800-1729-2-ND	High Speed CMOS Double-Width Bus Switch*	40-QVSOP	1486.00/2,000		
IDTQS32X2384Q1G8	800-1730-1-ND	HS CMOS 20-Bit Bus Switch*	48-QVSOP	2.63	2.03	1.84
IDTQS32X2384Q1G8	800-1730-2-ND	HS CMOS 20-Bit Bus Switch*	48-QVSOP	2026.00/2,000		
IDTQS32XVH245Q2G8	800-1735-1-ND	2.5V/3.3V 16-Bit Bus Switch*	40-QVSOP	2.31	1.79	1.62
IDTQS32XVH245Q2G8	800-1735-2-ND	2.5V/3.3V 16-Bit Bus Switch*	40-QVSOP	1782.00/2,000		
IDTQS32XVH2245Q2G	800-1734-5-ND	2.5V/3.3V 16-Bit Bus Switch*	40-QVSOP	2.80	2.25	2.05
IDTQS33X257Q1G8	800-1865-1-ND	HS CMOS 24:12 Mux/Demux*	48-QVSOP	3.75	3.07	2.75
IDTQS33X257Q1G8	800-1865-2-ND	HS CMOS 24:12 Mux/Demux*	48-QVSOP	3326.00/2,000		
IDTQS34X245Q3G	800-1743-5-ND	High Speed CMOS 32-Bit MultiWidth Bus Switch*	80-QVSOP	1.88	1.52	1.37
IDTQS34X2245Q3G	800-1742-5-ND	High Speed CMOS 32-Bit MultiWidth Bus Switch*	80-QVSOP	2.56	2.07	1.86
IDTQS34XVH245Q3G8	800-1866-1-ND	2.5V/3.3V 32-Bit Bus Switch*	80-QVSOP	3.30	2.70	2.42
IDTQS34XVH245Q3G8	800-1866-2-ND	2.5V/3.3V 32-Bit Bus Switch*	80-QVSOP	2926.00/2,000		
IDTQS34XVH2245Q3G	800-1745-5-ND	2.5V/3.3V 32-Bit Bus Switch*	80-QVSOP	6.35	5.21	4.70
IDTQS3125QG8	800-1711-1-ND	HS CMOS Quad Bus Switch*	16-QSOP	.77	.60	.53
IDTQS3125QG8	800-1711-2-ND	HS CMOS Quad Bus Switch*	16-QSOP	765.00/3,000		
IDTQS3125S1G	800-1712-5-ND	HS CMOS Quad Bus Switch*	14-SOIC	.70	.55	.48
IDTQS3126QG	800-1713-5-ND	HS CMOS Quad Bus Switch*	16-QSOP	.70	.55	.48
IDTQS3126QG8	800-1714-1-ND	HS CMOS Quad Bus Switch*	16-QSOP	.77	.60	.53
IDTQS3126QG8	800-1714-2-ND	HS CMOS Quad Bus Switch*	16-QSOP	765.00/3,000		
IDTQS3126S1G	800-1715-5-ND	HS CMOS Quad Bus Switch*	14-SOIC	.70	.55	.48
IDTQS3244PAG8	800-1718-1-ND	HS CMOS 8-Bit Bus Switch*	20-TSSOP	1.33	1.05	.95
IDTQS3244PAG8	800-1718-2-ND	HS CMOS 8-Bit Bus Switch*	20-TSSOP	1470.00/3,000		
IDTQS3244QG8	800-1719-1-ND	HS CMOS 8-Bit Bus Switch*	20-QSOP	.97	.75	.66
IDTQS3244QG8	800-1719-2-ND	HS CMOS 8-Bit Bus Switch*	20-QSOP	957.00/3,000		
IDTQS3244SOG8	800-1720-1-ND	HS CMOS 8-Bit Bus Switch*	20-SOIC	1.06	.82	.72
IDTQS3244SOG8	800-1720-2-ND	HS CMOS 8-Bit Bus Switch*	20-SOIC	422.00/1,000		
IDTQS3245QG8	800-1721-1-ND	HS CMOS 8-Bit Bus Switch*	20-QSOP	.97	.75	.66
IDTQS3245QG8	800-1721-2-ND	HS CMOS 8-Bit Bus Switch*	20-QSOP	957.00/3,000		
IDTQS3245SOG8	800-1722-1-ND	HS CMOS 8-Bit Bus Switch*	20-SOIC	1.16	.90	.80
IDTQS3245SOG8	800-1722-2-ND	HS CMOS 8-Bit Bus Switch*	20-SOIC	422.00/1,000		
IDTQS3251QG8	800-1723-1-ND	High Speed CMOS 8:1 Mux/Demux*	16-QSOP	.77	.60	.53
IDTQS3251QG8	800-1723-2-ND	High Speed CMOS 8:1 Mux/Demux*	16-QSOP	765.00/3,000		
IDTQS3253S1G8	800-1726-1-ND	HS CMOS Dual 4:1 Mux/Demux*	16-SOIC	.87	.68	.60
IDTQS3253S1G8	800-1726-2-ND	HS CMOS Dual 4:1 Mux/Demux*	16-SOIC	717.50/2,500		
IDTQS3257QG8	800-1727-1-ND	HS CMOS Quad 2:1 Mux/Demux*	16-QSOP	.77	.60	.53
IDTQS3257QG8	800-1727-2-ND	HS CMOS Quad 2:1 Mux/Demux*	16-QSOP	765.00/3,000		
IDTQS3257S1G8	800-1728-1-ND	HS CMOS Quad 2:1 Mux/Demux*	16-SOIC	.87	.68	.60
IDTQS3257S1G8	800-1728-2-ND	HS CMOS Quad 2:1 Mux/Demux*	16-SOIC	717.50/2,500		
IDTQS3306AS1G8	800-1736-1-ND	HS CMOS Dual Bus Switch*	8-SOIC	.87	.68	.60
IDTQS3306AS1G8	800-1736-2-ND	HS CMOS Dual Bus Switch*	8-SOIC	861.00/3,000		
IDTQS3383QG8	800-1737-1-ND	High Speed CMOS 10-Bit Bus Exchange Switch*	24-QSOP	.97	.75	.66
IDTQS3383QG8	800-1737-2-ND	High Speed CMOS 10-Bit Bus Exchange Switch*	24-QSOP	957.00/3,000		
IDTQS3384PAG8	800-1738-1-ND	HS CMOS 10-Bit Bus Switch*	24-TSSOP	1.33	1.05	.95
IDTQS3384PAG8	800-1738-2-ND	HS CMOS 10-Bit Bus Switch*	24-TSSOP	1470.00/3,000		
IDTQS3384QG8	800-1739-1-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	.97	.75	.66
IDTQS3384QG8	800-1739-2-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	957.00/3,000		
IDTQS3390QG8	800-1740-1-ND	HS CMOS 16:8 Multiplexer*	28-QSOP	1.67	1.32	1.19
IDTQS3390QG8	800-1740-2-ND	HS CMOS 16:8 Multiplexer*	28-QSOP	1232.00/2,000		
IDTQS3800QG8	800-1746-1-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	.79	.60	.53
IDTQS3800QG8	800-1746-2-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	765.00/3,000		
IDTQS3861PAG8	800-1747-1-ND	HS CMOS 10-Bit Bus Switch*	24-TSSOP	1.05	.83	.75
IDTQS3861PAG8	800-1747-2-ND	HS CMOS 10-Bit Bus Switch*	24-TSSOP	1155.00/3,000		
IDTQS3861QG8	800-1748-1-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	1.05	.83	.75
IDTQS3861QG8	800-1748-2-ND	HS CMOS 10-Bit Bus Switch*	24-QSOP	1155.00/3,000		
IDTQS32245QG	800-1716-5-ND	HS CMOS 8-Bit Bus Switch*	20-QSOP	.88	.69	.60
IDTQS32390QG	800-1717-5-ND	HS CMOS 16:8 Multiplexer*	28-QSOP	1.73	1.39	1.22

IDT DigiReel® TELECOM

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IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IDT82P2281PFG8	800-1700-1-ND	Single T1/E1/J1 Long Haul/Short Haul Xcvr.	80-TQFP	27.59	23.30	19.62
IDT82P2288BBG	800-1701-ND	Octal T1/E1/J1 Long Haul/Short Haul Xcvr.	256-PBGA	71.89	64.27	61.00
IDT82P2816BBG	800-1702-ND	16(+1) Channel High-Density T1/E1/J1 Line Interface Unit	416-PBGA	73.54	65.75	62.40
IDT82P2821BHG	800-1703-ND	21(+1) Channel High-Density T1/E1/J1 Line Interface Unit	640-PBGA	87.89	78.28	74.16
IDT82V2044EPFG8	800-1863-1-ND	Quad T1/E1/J1 Short Haul Line Interface Unit	128-TQFP	39.26	33.16	27.92
IDT82V2048EBBG	800-1704-ND	Octal T1/E1/J1 Short Haul Line Interface Unit	208-PBGA	53.39	46.18	43.29
IDT82V2084PFG8	800-1864-1-ND	Quad T1/E1/J1 Long Haul/Short Haul Line Interface Unit	128-TQFP	44.72	40.25	31.31
IDT82V2088BBG	800-1705-ND	Octal T1/E1/J1 Long Haul/Short Haul Line Interface Unit	208-PBGA	63.16	55.73	52.94
IDT728981JG	800-1505-5-ND	128x128-Channel Time Slot Interchange Digital Switch	44-PLCC	6.38	5.13	4.68
IDT821024JG8	800-1699-1-ND	Quad PCM CODEC, On-Chip Filter	32-PLCC	9.83	8.74	6.92
IDT821024JG8	800-1699-2-ND	Quad PCM CODEC, On-Chip Filter	32-PLCC	3890.25/750		

IDT *NEW!* TOUCH SENSORS

RoHS Compliant

IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LDS6000NQGI	800-1891-ND	PureTouch™ Sensor	28-VFQFPN	1.86	1.50	1.35
LDS6000PYGI	800-1886-ND	PureTouch™ Sensor	28-SSOP	2.02	1.63	1.47
LDS6003NQGI	800-1892-ND	PureTouch™ Sensor	28-VFQFPN	1.64	1.33	1.20
LDS6003PYGI	800-1885-ND	PureTouch™ Sensor	28-SSOP	1.77	1.43	1.29
LDS6005NQGI	800-1893-ND	PureTouch™ Sensor	28-VFQFPN	1.74	1.40	1.26
LDS6020NQGI	800-1894-ND	PureTouch™ Sensor	28-VFQFPN	2.02	1.63	1.47
LDS6020PYGI	800-1888-ND	PureTouch™ Sensor	28-SSOP	2.17	1.75	1.58
LDS6023NQGI	800-1882-ND	PureTouch™ Sensor	28-VFQFPN	1.86	1.50	1.35

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(Continued)

IDT (Cont.) NEW! TOUCH SENSORS

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IDT Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LDS6023PYGI	800-1890-ND	PureTouch™ Sensor	28-SSOP	2.02	1.63	1.47
LDS6025NQGI	800-1884-ND	PureTouch™ Sensor	28-VFQFPN	1.92	1.55	1.40
LDS6025PYGI	800-1889-ND	PureTouch™ Sensor	28-SSOP	2.08	1.68	1.51
LDS6028NQGI	800-1883-ND	PureTouch™ Sensor	40-VFQFPN	2.17	1.75	1.58

SMSC CONTROLLERS (ETHERNET /I/O /USB / CircLink™ etc.)

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SMSC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
COM20019I-DZD	638-1000-5-ND	Low Cost ARCNET Controller	28-PLCC	12.28	10.61	9.27
COM20020I-DZD	638-1001-5-ND	Universal LAN Controller	28-PLCC	24.76	21.05	19.19
COM20020I3V-DZD	638-1002-5-ND	Universal LAN Controller	28-PLCC	24.76	21.05	19.19
COM20022I3V-HT	638-1004-ND	10Mbps ARCNET Controller	48-TQFP	28.36	24.11	21.98
EMC1002-2-ACZL-TR	638-1045-1-ND	Dual SMBus Temp. Sensor	8-MSOP	1.87	1.45	1.31
EMC1043-2-ACZL-TR	638-1069-1-ND	Triple SMBus Temp. Sensor	8-MSOP	1.66	1.28	1.17
EMC1043-5-ACZL-TR	638-1070-1-ND	Triple SMBus Temp. Sensor	8-MSOP	1.66	1.28	1.17
EMC1043-5-ACZL-TR	638-1070-2-ND	Triple SMBus Temp. Sensor	8-MSOP	2596.00/4,000		
EMC1402-1-ACZL-TR	638-1067-1-ND	3.3V Dual SMBus Temp. Sensor	8-MSOP	2.21	1.71	1.55
EMC1402-1-ACZL-TR	638-1067-2-ND	3.3V Dual SMBus Temp. Sensor	8-MSOP	3404.00/4,000		
EMC1403-1-AIZL-TR	638-1068-1-ND	3.3V Triple SMBus Temp. Sensor	10-MSOP	1.98	1.76	1.54
EMC1403-1-AIZL-TR	638-1068-2-ND	3.3V Triple SMBus Temp. Sensor	10-MSOP	2860.00/4,000		
FDC37B787-NS	638-1006-ND	Super I/O Cont. with ACPI Support	128-QFP	18.83	16.27	14.21
FDC37C665GT-MS	638-1007-ND	Multi-Mode Parallel Port Super I/O Floppy Disk Controller	100-QFP	21.54	18.61	16.26
FDC37C669-MT	638-1008-ND	PC 98/99 Compliant Super I/O Floppy Disk Controller with Infrared Support	100-TQFP	15.05	13.00	11.36
LAN83C185-JT	638-1009-ND	High Perf. Single Chip LP 10/100 Ethernet Physical Layer Transceiver	64-TQFP	6.02	5.16	4.52
LAN91C111I-NU	638-1015-ND	10/100 Non-PCI Ethernet Single Chip	128-TQFP	32.22	27.39	24.98
LAN91C111-NS	638-1016-ND	10/100 Non-PCI Ethernet Single Chip	128-QFP	31.88	27.10	24.71
LAN91C111-NU	638-1017-ND	10/100 Non-PCI Ethernet Single Chip	128-TQFP	29.46	25.05	22.84
LAN91C96-MU	638-1018-ND	Non-PCI Single Chip Full Duplex Ethernet Cont. with Magic Packet	100-TQFP	21.21	18.32	16.01
LAN8700C-AEZG	638-1046-ND	ESD Protected 10/100 Ethernet Xcvr.	36-QFN	2.40	2.08	1.84
LAN8700iC-AEZG	638-1047-ND	ESD Protected 10/100 Ethernet Transceiver, Ind. Temp	36-QFN	2.80	2.40	2.10
LAN8710AI-EZK	638-1083-ND	MII/RMII 10/100 Ethernet Transceiver ***NEW!***	32-QFN	2.64	2.29	2.03
LAN8720A-CP	638-1080-ND	RMII 10/100 Ethernet Transceiver ***NEW!***	24-QFN	1.95	1.69	1.50
LAN8720AI-CP	638-1084-ND	RMII 10/100 Ethernet Transceiver ***NEW!***	24-QFN	2.43	2.11	1.87
LAN9115-MT	638-1010-ND	Highly Efficient Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	12.10	10.45	9.13
LAN9116-MT	638-1011-ND	Highly Efficient Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	16.17	13.97	12.21
LAN9117-MT	638-1012-ND	High Performance Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	16.50	14.25	12.45
LAN9118-MT	638-1013-ND	Highly Performance Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	24.00	20.40	18.60
LAN9210-ABZJ	638-1048-ND	Single-Chip Ethernet Controller	56-QFN	11.58	10.19	8.80
LAN9211-ABZJ	638-1049-ND	Single-Chip Ethernet Controller	56-QFN	10.62	8.93	8.21
LAN9221-ABZJ	638-1073-ND	High Perf. 16-Bit Non-PCI 10/100 Ethernet Controller	56-QFN	10.40	9.16	7.91
LAN9303-ABZJ	638-1082-ND	3-Port 10/100 Managed Ethernet Switch ***NEW!***	56-QFN	8.83	7.77	6.71
LAN9311-NU	638-1075-ND	2-Port 10/100 Managed Ethernet Switch	128-VTQFP	14.41	12.45	10.88
LAN9420I-NU	638-1085-ND	Single-Chip Ethernet Controller ***NEW!***	128-VTQFP	8.40	7.40	6.39
LAN9500-ABZJ	638-1071-ND	Hi-Speed USB 2.0 to 10/100 Ethernet Controller	56-QFN	6.92	5.56	5.07
LAN9512-JZX	638-1086-ND	Hi-Speed USB 2.0 to 10/100 Ethernet Controller ***NEW!***	64-QFN	7.60	6.69	5.78
LAN9514-JZX	638-1087-ND	Hi-Speed USB 2.0 to 10/100 Ethernet Controller ***NEW!***	64-QFN	8.93	7.86	6.79
LPC47B272-MS	638-1019-ND	100-Pin Enhanced Super I/O Controller with LPC Interface	100-QFP	16.94	14.63	12.79
SCH3112-NU	638-1020-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	12.38	10.89	9.41
SCH3114-NU	638-1021-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	16.17	13.97	12.21
SCH3116-NU	638-1022-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	21.56	18.62	16.27
TMC2074-NU	638-1024-ND	Dual Mode CircLink™ Controller	128-VTQFP	19.10	16.24	15.04
TMC2084-HT	638-1025-ND	Stand-Alone Mode CircLink Controller	48-TQFP	11.44	9.62	8.84
USB2241-AEZG-05	638-1077-ND	Ultra Fast USB 2.0 Multi-Format Flash Media Controller	36-QFN	3.56	3.05	2.67
USB2250-NU-05	638-1088-ND	USB 2.0 Multi-Slot Flash Media Controller ***NEW!***	128-VTQFP	4.26	3.65	3.20
USB2502-AEZG	638-1029-ND	2-Port USB 2.0 Hub Controller	36-QFN	3.68	2.96	2.70
USB2503A-HZH	638-1030-ND	Integrated USB 2.0 Compatible 3-Port Hub	48-QFN	4.93	3.97	3.62
USB2504A-JT	638-1031-ND	Integrated USB 2.0 Compatible 4-Port Hub	64-TQFP	6.27	5.38	4.71
USB2507-ADT	638-1032-ND	Integrated USB 2.0 Compatible 7-Port Hub	80-TQFP	8.10	7.13	6.16
USB2512-AEZG	638-1050-ND	USB 2.0 Hub Controller, 2-Port	36-QFN	3.86	3.32	2.90
USB2512AI-AEZG	638-1089-ND	USB 2.0 Hub Controller, 2-Port ***NEW!***	36-QFN	4.42	3.80	3.32
USB2512I-AEZG	638-1051-ND	USB 2.0 Hub Controller, 2-Port	36-QFN	5.24	4.49	3.93
USB2513-AEZG	638-1052-ND	USB 2.0 Hub Controller, 3-Port	36-QFN	4.26	3.65	3.20
USB2513I-AEZG	638-1053-ND	USB 2.0 Hub Controller, 3-Port	36-QFN	4.96	3.99	3.63
USB2517I-JZX	638-1090-ND	USB 2.0 Hub Controller, 7-Port ***NEW!***	64-QFN	9.53	8.39	7.24
USB2517-JZX	638-1081-ND	USB 2.0 Hub Controller, 7-Port ***NEW!***	64-QFN	7.05	6.21	5.36
USB2524-ABZJ	628-1056-ND	USB 2.0 MultiSwitch Hub Controller	56-QFN	5.82	4.77	4.31
USB3300-EZK	638-1034-ND	Hi-Speed USB Host, Device or OTG PHY with ULPI Low Pin Interface	32-QFN	2.40	2.08	1.84
USB3311-GJ-TR	638-1058-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock	25-VFBGA	2.87	2.22	2.01
USB3311C-CP-TR	638-1091-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	2.88	2.56	2.24
USB3311C-CP-TR	638-1091-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		

SMSC CONTROLLERS (ETHERNET /I/O /USB / CircLink™ etc.)

SUCCESS BY DESIGN · Digi-Reel® *(Cont.)*

RoHS Compliant

SMSC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
USB3316B-CP-TR	638-1060-1-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock	24-QFN	2.88	2.56	2.24
USB3316B-CP-TR	638-1060-2-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock	24-QFN	4160.00/4,000		
USB3316B-GJ-TR	638-1061-1-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock	25-VFBGA	2.87	2.22	2.01
USB3316B-GJ-TR	638-1061-2-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock	25-VFBGA	4484.00/4,000		
USB3317-CP-TR	638-1062-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock	24-QFN	2.88	2.56	2.24
USB3317-CP-TR	638-1062-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock	24-QFN	4160.00/4,000		
USB3317-GJ-TR	638-1063-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock	25-VFBGA	2.87	2.22	2.01
USB3317C-CP-TR	638-1092-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	2.88	2.56	2.24
USB3317C-CP-TR	638-1092-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3318-CP-TR	638-1064-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock	24-QFN	2.88	2.56	2.24
USB3318-CP-TR	638-1064-2-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock	24-QFN	4160.00/4,000		
USB3319-CP-TR	638-1065-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock	24-QFN	2.88	2.56	2.24
USB3319-GJ-TR	638-1066-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock	25-VFBGA	2.87	2.22	2.01
USB3319-GJ-TR	638-1066-2-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock	25-VFBGA	4484.00/4,000		
EVB8710	638-1098-ND	Evaluation Board for LAN8710 ***NEW!***	—	137.80	—	—
EVB9221-MINI	638-1074-ND	Evaluaiton Board for LAN9221-ABZJ	—	156.00	—	—
EVB9303	638-1095-ND	Evaluation Board for LAN9303 ***NEW!***	—	531.70	—	—
EVB9311	638-1076-ND	Evaluation Board for LAN9311-NU	—	455.00	—	—
EVB9512	638-1093-ND	Evaluation Board for LAN9512 ***NEW!***	—	306.80	—	—
EVB9514	638-1094-ND	Evaluation Board for LAN9514 ***NEW!***	—	331.50	—	—
EVB-USB2240-IND	638-1078-ND	Evaluation Board for USB2241-AEZG	—	107.90	—	—
EVB-USB2512Q36-BAS	638-1041-ND	Evaluation Board for USB2512/USB2512i	—	58.50	—	—
EVB-USB2514Q36-BAS	638-1043-ND	Evaluation Board for USB2514/USB2514i	—	58.50	—	—
EVB-USB2524	638-1044-ND	Evaluation Board for USB2524	—	110.50	—	—
EVB-USB3311-CP	638-1096-ND	Evaluation Board for USB3311C ***NEW!***	—	110.50	—	—
EVB-USB3317-CP	638-1097-ND	Evaluation Board for USB3317C ***NEW!***	—	110.50	—	—

FUJITSU ANALOG PRODUCTS

RoHS Compliant

Fujitsu Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
DAC - High Performance Data Converters						
DK86060-3	865-1009-ND	16-bit DAC Dev. Kit for MB86060	—	600.00	—	—
MB86060PMCR-G-BNDE1	865-1006-ND	16-bit 400MSa/s DAC	80-LQFP	57.12	53.76	46.20
DK86064-1-SMA	865-1012-ND	SMA Adaptors for MB86064 Dev. Kit	—	900.00	—	—
DK86064-2	865-1010-ND	14-bit DAC Dev. Kit for MB86064	—	1170.00	—	—
MB86064PB-GE1	865-1007-ND	Dual 14-bit 1GSa/s DAC	120-EFBGA	217.50	206.25	195.00
DK86065-2	865-1011-ND	14-bit DAC Dev. Kit for MB86065	—	1000.00	—	—
MB86065PB-GE1	865-1008-ND	14-bit 1.3GSa/s DAC	120-EFBGA	144.00	135.00	121.50
Phase Locked Loops (PLLs)						
MB15E03SLPFV1-G-BND-6E1	865-1000-ND	1.2GHz PLL Frequency Synthesizer	16-SSOP	2.10	1.96	1.61
MB15E07SLPFV1-G-BND-6E1	865-1001-ND	2.5GHz PLL Frequency Synthesizer	16-SSOP	2.01	1.88	1.55
MB15F07SLPFV1-BND-6E1	865-1003-ND	Dual 1.1GHz PLL Freq. Synthesizer	16-SSOP	2.19	2.05	1.68
MB15U36PFV-G-BNDE1	865-1005-ND	Dual PLL Frequency Synthesizer	20-SSOP	2.19	2.05	1.68
Power Management ICs (PMICs)						
MB39A118AQN-G-ERE1	865-1018-1-ND	1-Channel DC/DC Converter	28-QFN	4.20	3.72	2.88
MB39A118AQN-G-ERE1	865-1018-2-ND	1-Channel DC/DC Converter	28-QFN	2430.00/1,500		
MB39A126PFV-G-BND-ERE1	865-1019-1-ND	DC/DC Conv. Li-ion Battery Charger	24-SSOP	3.53	3.24	2.75
MB39A126PFV-G-BND-ERE1	865-1019-2-ND	DC/DC Conv. Li-ion Battery Charger	24-SSOP	2021.25/1,500		
MB39A132QN-G-ERE1	865-1020-ND	DC/DC Conv. Li-ion Battery Charger	32-QFN	3.36	3.12	2.52
MB39C011APFT-G-BNDE1	865-1016-ND	2-Ch. DC/DC Converter, Sync., PWM	16-TSSOP	2.13	1.99	1.64
MB3759PF-G-BND-JNE1	865-1013-ND	200mA Switching Reg. Controller	16-SOP	1.24	1.14	.95
MB3771PF-G-BND-JNE1	865-1021-ND	Power Supply Monitor	8-SOP	1.14	1.05	.88
MB3773PF-G-BND-JNE1	865-1022-ND	Power Supply Monitor, WD Timer	8-SOP	1.27	1.17	.98
MB3775PFV-G-BNDE1	865-1014-ND	75mA Switching Regulator Controller	16-SSOP	2.01	1.88	1.55
MB3800PNF-G-BND-JNE1	865-1015-ND	Low Volt. Switching Reg. Controller	48-LQFP	.94	.87	.73
MB3793-27APNF-G-JN-ER6E1	865-1023-1-ND	2.7V Power Volt. Monitor, WD Timer	8-SOP	1.54	1.40	1.19
MB3793-27APNF-G-JN-ER6E1	865-1023-2-ND	2.7V Power Volt. Monitor, WD Timer	8-SOP	922.50/1,500		
MB3793-27APFV-6E1#	865-1024-ND	2.7V Power Volt. Monitor, WD Timer	8-SSOP	1.53	1.43	1.18
MB3793-30APNF-G-JN-6E1	865-1025-ND	3V Power Volt. Monitor, WD Timer	8-SOL	1.33	1.23	1.03
MB3793-37APNF-G-JN-6E1	865-1026-ND	3.7V Power Volt. Monitor, WD Timer	8-SOP	1.33	1.23	1.03
MB3793-42PF-G-BND-JN-6E1	865-1027-ND	Power Voltage Monitor, WD Timer	8-SOP	1.27	1.17	.98
MB3793-42PNF-G-JN-6E1	865-1028-ND	Power Voltage Monitor, WD Timer	8-SOP	1.33	1.23	1.03
MB3793-42PNF-ER-6E1#	865-1029-1-ND	Power Voltage Monitor, WD Timer	8-SOP	1.54	1.40	1.19
MB3793-42PNF-ER-6E1#	865-1029-2-ND	Power Voltage Monitor, WD Timer	8-SOP	922.50/1,500		
MB3793-45PF-G-BND-JN-6E1	865-1030-ND	Power Voltage Monitor, WD Timer	8-SOP	1.27	1.17	.98
MB3793-45PNF-G-JN-6E1	865-1031-ND	Power Voltage Monitor, WD Timer	8-SOL	1.33	1.23	1.03
Spread Spectrum Clock Generator (SSCG)						
MB88151AEB01-100	865-1032-ND	Evaluation Board for MB88151	—	58.67	—	—
MB88151APNF-G-100-JNE1	865-1039-ND	EMI Clock Generator, Multiply-by-1	8-SOIC	2.55	2.38	1.96
MB88152AEB01-100	865-1033-ND	Evaluation Board for MB88152	—	58.67	—	—
MB88152APNF-G-100-JNE1	865-1040-ND	EMI Clock Generator	8-SOP	2.55	2.38	1.96
MB88154AEB01-101	865-1034-ND	Evaluation Board for MB88154	—	58.67	—	—
MB88154APNF-G-102-JNE1	865-1041-ND	EMI Clock Generator	8-SOP	2.37	2.22	1.82
MB88155EB01-100	865-1035-ND	Evaluation Board for MB88155	—	58.67	—	—
MB88155PFT-G-100-JNE1	865-1042-ND	EMI Clock Generator, Multiply-by-1	8-TSSOP	2.55	2.38	1.96
MB88161EB01	865-1037-ND	Evaluation Board for MB88161	—	58.67	—	—
MB88162EB01	865-1038-ND	Evaluation Board for MB88162	—	58.67	—	—

* *RoHS Compliant*

(Continued)

National Semiconductor DigiReel®

ANALOG TO DIGITAL CONVERTERS (ADC)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
8 Bit Resolution					
ADC08B200CIVS-ND	Parallel, 200MSPS, Capture Buffer*	48-TQFP	31.20	26.52	24.57
ADC081C021CIMKCT-ND	Serial/I2C, 188kSPS*	6-TSOT	2.14	1.66	1.50
ADC081C021CIMKTR-ND	Serial/I2C, 188kSPS*	6-TSOT	887.00/1,000		
ADC081C021CIMMCT-ND	Serial/I2C, 188kSPS* ***NEW!***	8-MSOP	2.43	1.88	1.71
ADC081C021CIMMTR-ND	Serial/I2C, 188kSPS* ***NEW!***	8-MSOP	1006.00/1,000		
ADC081C027CIMKCT-ND	Serial/I2C, 188kSPS*	6-TSOT	2.23	1.72	1.57
ADC081C027CIMKTR-ND	Serial/I2C, 188kSPS*	6-TSOT	924.00/1,000		
ADC0801LCN-ND	Parallel, 9.1kSPS, µP Compatible, 1/4 LSB*	20-Dip	12.08	10.16	9.34
ADC0802LCN-ND	Parallel, 9.1kSPS, µP Compatible, 1/2 LSB*	20-Dip	6.88	5.64	5.09
ADC0803LCN-ND	Parallel, 9.1kSPS, µP Compatible, 1/2 LSB*	20-Dip	5.71	4.59	4.19
ADC0804LCN-ND	Parallel, 9.1kSPS, µP Compatible, 1 LSB*	20-Dip	3.92	3.15	2.87
ADC0808CCN-ND	Parallel, 8.6kSPS, µP Compatible, 8-Channel Mux*	28-Dip	6.94	5.58	5.09
ADC0808CCV-ND	Parallel, 8.6kSPS, µP Compatible, 8-Channel Mux*	28-PLCC	6.92	5.56	5.07
ADC0809CCN-ND	Parallel, 8.6kSPS, µP Compatible, 8-Channel Mux*	28-Dip	4.59	3.69	3.37
ADC0809CCV-ND	Parallel, 8.6kSPS, µP Compatible, 8-Channel Mux*	28-PLCC	6.38	5.23	4.72
ADC0816CCN-ND	Parallel, 10kSPS, µP Compatible, 16-Channel Mux*	40-Dip	16.35	13.75	12.64
ADC0817CCN-ND	Parallel, 10kSPS, µP Compatible, 16-Channel Mux*	40-Dip	11.90	9.76	8.81
ADC0820CCN-ND	Parallel, 667kSPS, µP Compatible,Track/Hold*	20-Dip	4.70	3.78	3.45
ADC0820CCWM-ND	Parallel, 667kSPS, µP Compatible,Track/Hold*	20-SOIC	4.34	3.49	3.18
ADC0831CCN-ND	Serial I/O, 31kSPS, 1-Channel Multiplexer Options*	8-Dip	3.28	2.64	2.40
ADC0831CCWM-ND	Serial I/O, 31kSPS, 1-Channel Multiplexer Options*	14-SOIC	3.25	2.61	2.38
ADC0832CCWM-ND	Serial I/O, 31kSPS, 2-Channel Multiplexer Options*	14-SOIC	3.50	2.82	2.57
ADC0834CCWM-ND	Serial I/O, 31kSPS, 4-Channel Multiplexer Options*	14-SOIC	3.33	2.68	2.44
ADC0838CCN-ND	Serial I/O, 31kSPS, 8-Channel Multiplexer Options*	20-Dip	3.28	2.64	2.40
ADC0838CCWM-ND	Serial I/O, 31kSPS, 8-Channel Multiplexer Options*	20-SOIC	3.39	2.73	2.49
ADC0844CCN-ND	Parallel, 25kSPS, 4-Channel Multiplexer Options*	20-Dip	5.85	4.71	4.29
ADC0848CCN-ND	Parallel, 25kSPS, 8-Channel Multiplexer Options*	24-Dip	5.99	4.82	4.39
ADC0848CCV-ND	Parallel, 25kSPS, 8-Channel Multiplexer Options*	28-PLCC	6.43	5.27	4.76
ADC08060CIMT-ND	Parallel, 60MSPS, 1.3mW/MSPS*	24-TSSOP	4.20	3.38	3.08
ADC08060CIMTXCT-ND	Parallel, 60MSPS, 1.3mW/MSPS*	24-TSSOP	4.50	3.68	3.30
ADC08060CIMTXTR-ND	Parallel, 60MSPS, 1.3mW/MSPS*	24-TSSOP	4987.50/2,500		
ADC08831IM-ND	Serial I/O, 250kSPS, 1-Channel Multiplexer Options*	8-SOIC	2.51	2.03	1.83
ADC08831IMMCT-ND	Serial I/O, 250kSPS, 1-Channel Multiplexer Options	8-MSOP	2.84	2.19	1.99
ADC08832IM-ND	Serial I/O, 250kSPS, 2-Channel Multiplexer Options*	8-SOIC	2.51	2.03	1.83
ADC08832IWM-ND	Serial I/O, 250kSPS, 2-Channel Multiplexer Options	14-SOIC	2.51	2.03	1.83
ADC1173CIMTC-ND	Parallel, 15MSPS*	24-TSSOP	3.44	2.77	2.53
8 Bit Resolution — PowerWise®					
ADC08D1020CIYB-ND	Serial, Dual 1.0GSPS or Single 2.0GSPS*	128-LQFP	444.15	419.48	411.25
ADC08D500CIYB-ND	Serial, Dual 500MSPS or Single 1.0GSPS* ***NEW!***	128-LQFP	198.65	182.21	178.10
ADC08L060CIMT-ND	Parallel, 60MSPS*	24-TSSOP	6.90	5.66	5.11
ADC081S021CIMFCT-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	2.13	1.65	1.49
ADC081S021CIMFTR-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	882.00/1,000		
ADC081S021CISDCT-ND	Serial, 200kSPS, 1-Channel*	6-LLP	2.13	1.65	1.49
ADC081S021CISDTR-ND	Serial, 200kSPS, 1-Channel*	6-LLP	882.00/1,000		
ADC081S051CIMFCT-ND	Serial, 500kSPS, 1-Channel	SOT-23-6	2.39	1.85	1.68
ADC081S051CIMFTR-ND	Serial, 500kSPS, 1-Channel	SOT-23-6	992.00/1,000		
ADC081S051CISDCT-ND	Serial, 500kSPS, 1-Channel*	6-LLP	2.39	1.85	1.68
ADC081S101CIMFCT-ND	Serial, 1MSPS	SOT-23-6	2.76	2.14	1.94
ADC081S101CIMFTR-ND	Serial, 1MSPS	SOT-23-6	1144.00/1,000		
ADC081S101CISDCT-ND	Serial, 1MSPS	6-LLP	2.76	2.14	1.94
ADC081S101CISDTR-ND	Serial, 1MSPS	6-LLP	1144.00/1,000		
ADC081000CIYB-ND	Serial, 1GSPS* ***NEW!***	128-LQFP	187.05	171.57	167.70
ADC082S021CIMMCT-ND	Serial, 200kSPS, 2-Channel*	8-MSOP	2.89	2.24	2.03
ADC082S021CIMMTR-ND	Serial, 200kSPS, 2-Channel*	8-MSOP	1198.00/1,000		
ADC082S051CIMMCT-ND	Serial, 500kSPS, 2-Channel*	8-MSOP	3.13	2.42	2.19
ADC082S051CIMMTR-ND	Serial, 500kSPS, 2-Channel*	8-MSOP	1295.00/1,000		
ADC082S101CIMMCT-ND	Serial, 1MSPS, 2-Channel*	8-MSOP	3.00	2.45	2.20
ADC082S101CIMMTR-ND	Serial, 1MSPS, 2-Channel*	8-MSOP	1400.00/1,000		
ADC084S021CIMMCT-ND	Serial, 200kSPS, 4-Channel*	10-MSOP	3.33	2.57	2.33
ADC084S021CIMMTR-ND	Serial, 200kSPS, 4-Channel*	10-MSOP	1378.00/1,000		
ADC084S051CIMMCT-ND	Serial, 500kSPS, 4-Channel*	10-MSOP	3.27	2.68	2.40
ADC084S051CIMMTR-ND	Serial, 500kSPS, 4-Channel*	10-MSOP	1526.00/1,000		
ADC084S101CIMMCT-ND	Serial, 1MSPS, 4-Channel*	10-MSOP	3.57	2.92	2.62
ADC084S101CIMMTR-ND	Serial, 1MSPS, 4-Channel*	10-MSOP	1666.00/1,000		
ADC088S022CIMT-ND	Serial, 200kSPS, 8-Channel*	16-TSSOP	3.19	2.57	2.34
ADC088S052CIMT-ND	Serial, 500kSPS, 8-Channel*	16-TSSOP	3.47	2.79	2.55
ADC088S102CIMT-ND	Serial, 1MSPS, 8-Channel*	16-TSSOP	4.00	3.22	2.94
ADC08100CIMTC-ND	Parallel, 100MSPS, 1.3mW*	24-TSSOP	10.28	8.43	7.61
ADC08200CIMT-ND	Parallel, 667kSPS, 1.05mW/MSPS*	24-TSSOP	16.04	13.49	12.40
ADC083000CIYB-ND	Serial, 3GSPS*	128-LQFP	847.60	—	—
10 Bit Resolution — RoHS Compliant					
ADC10D020CIVS-ND	Parallel, 20MSPS, 150mW	48-TQFP	10.70	8.78	7.92
ADC10D040CIVS-ND	Parallel, 40MSPS, 267mW	48-TQFP	12.54	10.55	9.69
ADC10DL065CIVS-ND	Parallel, 65MSPS, 370mW ***NEW!***	64-TQFP	15.47	13.01	11.96
ADC101C021CIMKCT-ND	Serial, 188kSPS, I2C Compatible	6-TSOT	3.33	2.57	2.33
ADC101C021CIMKTR-ND	Serial, 188kSPS, I2C Compatible	6-TSOT	1378.00/1,000		
ADC101C021CIMMCT-ND	Serial, 188kSPS, I2C Compatible ***NEW!***	8-MSOP	3.33	2.57	2.33
ADC101C021CIMMTR-ND	Serial, 188kSPS, I2C Compatible ***NEW!***	8-MSOP	1378.00/1,000		
ADC101C027CIMKCT-ND	Serial, 188kSPS, I2C Compatible	6-TSOT	3.33	2.57	2.33
ADC101C027CIMKTR-ND	Serial, 188kSPS, I2C Compatible	6-TSOT	1378.00/1,000		
ADC102S021CIMMCT-ND	Serial, 50 ~ 200kSPS, 2-Channel	8-MSOP	3.42	2.80	2.51
ADC102S021CIMMTR-ND	Serial, 50 ~ 200kSPS, 2-Channel	8-MSOP	1596.00/1,000		
ADC102S051CIMMCT-ND	Serial, 200 ~ 500kSPS, 2-Channel	8-MSOP	4.29	3.51	3.15
ADC102S051CIMMTR-ND	Serial, 200 ~ 500kSPS, 2-Channel	8-MSOP	2002.00/1,000		
ADC102S101CIMMCT-ND	Serial, 500kSPS ~ 1MSPS, 2-Channel	8-MSOP	4.86	3.97	3.57
ADC102S101CIMMTR-ND	Serial, 500kSPS ~ 1MSPS, 2-Channel	8-MSOP	2268.00/1,000		
ADCS7477AIMFCT-ND	Serial, 1MSPS	SOT-23-6	3.99	3.26	2.93
ADCS7477AIMFTR-ND	Serial, 1MSPS	SOT-23-6	1862.00/1,000		
ADC10154CIWM-ND	Parallel, 166kSPS, 4 or 8-Channel Multiplexer ***NEW!***	24-SOIC	6.60	5.42	4.89
ADC10158CIWM-ND	Parallel, 166kSPS, 4 or 8-Channel Multiplexer	28-SOIC	6.58	5.40	4.87
ADC10321CIVT-ND	Parallel, 20MSPS	32-LQFP	9.38	7.69	6.94
ADC10464CIWM-ND	Parallel, 800kSPS, 600nS, Input Multiplexer	28-SOIC	8.03	6.59	5.94
ADC10738CIWM-ND	Serial, 200kSPS	24-SOIC	5.96	4.80	4.37
10 Bit Resolution — PowerWise®					
ADC10DV200CISQECT-ND	Parallel, 200MSPS, 450mW*	60-LLP	66.50	58.90	55.10
ADC10DV200CISQETR-ND	Parallel, 200MSPS, 450mW*	60-LLP	12825.00/250		
ADC101S021CIMFCT-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	3.33	2.57	2.33
ADC101S021CIMFTR-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	1378.00/1,000		
ADC101S021CISDCT-ND	Serial, 200kSPS, 1-Channel*	6-LLP	3.33	2.57	2.33
ADC101S021CISDTR-ND	Serial, 200kSPS, 1-Channel*	6-LLP	1378.00/1,000		
ADC101S051CIMFCT-ND	Serial, 500kSPS, 1-Channel*	SOT-23-6	3.36	2.75	2.47
ADC101S051CIMFTR-ND	Serial, 500kSPS, 1-Channel*	SOT-23-6	1568.00/1,000		

National Semiconductor DigiReel® (Cont.)

ANALOG TO DIGITAL CONVERTERS (ADC)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC101S051CISDCT-ND	Serial, 500kSPS, 1-Channel*	6-LLP	3.36	2.75	2.47
ADC101S101CIMFCT-ND	Serial, 1MSPS	SOT-23-6	4.08	3.34	3.00
ADC101S101CIMFTR-ND	Serial, 1MSPS	SOT-23-6	1904.00/1,000		
ADC104S021CIMMCT-ND	Serial, 200kSPS, 4-Channel*	10-MSOP	4.14	3.39	3.04
ADC104S021CIMMTR-ND	Serial, 200kSPS, 4-Channel*	10-MSOP	1932.00/1,000		
ADC104S051CIMMCT-ND	Serial, 500kSPS, 4-Channel	10-MSOP	5.13	4.19	3.77
ADC104S051CIMMTR-ND	Serial, 500kSPS, 4-Channel	10-MSOP	2394.00/1,000		
ADC104S101CIMMCT-ND	Serial, 1MSPS, 4-Channel	10-MSOP	5.55	4.54	4.07
ADC104S101CIMMTR-ND	Serial, 1MSPS, 4-Channel	10-MSOP	2590.00/1,000		
ADC108S022CIMT-ND	Serial, 200kSPS, 8-Channel*	16-TSSOP	4.79	3.85	3.51
ADC108S052CIMT-ND	Serial, 500kSPS, 8-Channel*	16-TSSOP	6.13	4.93	4.49
ADC108S102CIMT-ND	Serial, 1MSPS, 8-Channel*	16-TSSOP	6.40	5.25	4.74
ADC10040CIMT-ND	Parallel, 40MSPS	28-TSSOP	8.90	7.30	6.59
ADC10065CIMT-ND	Parallel, 65MSPS*	28-TSSOP	8.00	6.56	5.92
ADC10080CIMT-ND	Parallel, 80MSPS*	28-TSSOP	10.58	8.68	7.83
11 Bit Resolution — RoHS Compliant					
ADC11DS105CISQECT-ND	Serial, 105MSPS, Dual	60-LLP	67.83	59.85	56.86
ADC11DS105CISQETR-ND	Serial, 105MSPS, Dual	60-LLP	13466.25/250		
NEW! 11 Bit Resolution – PowerWise® — RoHS Compliant NEW!					
ADC11DV200CISQECT-ND	Parallel, 200MSPS, Dual	60-LLP	45.22	39.51	36.89
ADC11DV200CISQETR-ND	Parallel, 200MSPS, Dual	60-LLP	8330.00/250		
12 Bit Resolution					
ADC12D040CIVS-ND	Parallel, 40MSPS*	64-TQFP	24.80	21.08	19.53
ADC12L080CIVY-ND	Parallel, 80MSPS, 450MHz Bandwidth	32-LQFP	30.40	25.84	23.94
ADC121C021CIMKCT-ND	Serial, 188kSPS, I2C Compatible, with Alert Function	6-TSOT	3.36	2.75	2.47
ADC121C021CIMKTR-ND	Serial, 188kSPS, I2C Compatible, with Alert Function	6-TSOT	1568.00/1,000		
ADC121C021CIMMCT-ND	Serial, 188kSPS, I2C Compatible with Alert Function* ***NEW!***	8-MSOP	3.30	2.70	2.42
ADC121C021CIMMTR-ND	Serial, 188kSPS, I2C Compatible with Alert Function* ***NEW!***	8-MSOP	1540.00/1,000		
ADC121C027CIMKCT-ND	Serial, 188kSPS, I2C Compatible, with Alert Function	6-TSOT	3.36	2.75	2.47
ADC121C027CIMKTR-ND	Serial, 188kSPS, I2C Compatible, with Alert Function	6-TSOT	1568.00/1,000		
ADC121S625CIMMCT-ND	Serial, 200kSPS, Differential Input*	8-MSOP	4.11	3.36	3.02
ADC121S625CIMMTR-ND	Serial, 200kSPS, Differential Input*	8-MSOP	1918.00/1,000		
ADC121S655CIMMCT-ND	Serial, 500kSPS, Differential Input*	8-MSOP	4.86	3.97	3.57
ADC121S655CIMMTR-ND	Serial, 500kSPS, Differential Input*	8-MSOP	2268.00/1,000		
ADC122S625CIMMCT-ND	Serial, 200kSPS, Simultaneous Sampling*	10-MSOP	6.81	5.66	5.14
ADC122S625CIMMTR-ND	Serial, 200kSPS, Simultaneous Sampling*	10-MSOP	3470.00/1,000		
ADC122S655CIMMCT-ND	Serial, 500kSPS, Simultaneous Sampling*	10-MSOP	7.39	6.14	5.58
ADC122S655CIMMTR-ND	Serial, 500kSPS, Simultaneous Sampling*	10-MSOP	3767.00/1,000		
ADC122S706CIMT-ND	Serial, 1MSPS, Simultaneous Sampling*	14-TSSOP	8.18	6.71	6.05
ADC12010CIVY-ND	Parallel, 10MSPS*	32-LQFP	11.28	9.25	8.35
ADC12030CIWM-ND	Serial, Self-Calibrating Plus Sign*	16-SOIC	7.45	6.11	5.52
ADC12038CIWM-ND	Serial, 114kSPS*	28-SOIC	7.75	6.36	5.74
ADC12040CIVY-ND	Parallel, 40MSPS*	32-LQFP	18.81	15.82	14.54
ADC12048CIV-ND	Parallel, 216kSPS Self-Calibrating Plus Sign* ***NEW!***	44-PLCC	13.38	11.25	10.34
ADC12130CIN-ND	Serial, 114kSPS Self-Calibrating Plus Sign	16-Dip	8.58	7.04	6.35
ADC12138CIWM-ND	Serial, 114kSPS Self-Calibrating Plus Sign*	28-SOIC	8.35	6.85	6.18
ADCS7476AIMFCT-ND	Serial, 1MSPS*	SOT-23-6	4.38	3.58	3.22
ADCS7476AIMFTR-ND	Serial, 1MSPS*	SOT-23-6	2044.00/1,000		
12 Bit Resolution — PowerWise®					
ADC12C080CISQECT-ND	Parallel, 80MSPS*	32-LLP	30.00	27.00	24.75
ADC12C080CISQETR-ND	Parallel, 80MSPS*	32-LLP	5437.50/250		
ADC12C105CISQECT-ND	Parallel, 105MSPS*	32-LLP	38.00	33.20	31.00
ADC12C105CISQETR-ND	Parallel, 105MSPS*	32-LLP	7000.00/250		
ADC12C170CISQCT-ND	Serial, 170MSPS, 1.1GHz Bandwidth*	48-LLP	54.15	47.31	44.18
ADC12C170CISQTR-ND	Serial, 170MSPS, 1.1GHz Bandwidth*	48-LLP	9975.00/250		
ADC12DC105CISQECT-ND	Parallel, 105MSPS*	60-LLP	45.60	39.84	37.20
ADC12DC105CISQETR-ND	Parallel, 105MSPS*	60-LLP	8400.00/250		
ADC12DL040CIVS-ND	Parallel, 40MSPS, 3V*	64-TQFP	20.90	17.58	16.15
ADC12DL080CIVS-ND	Parallel, 80MSPS*	64-TQFP	30.40	25.84	23.94
ADC12DS080CISQCT-ND	Serial, 80MSPS*	60-LLP	39.90	34.86	32.55
ADC12DS080CISQTR-ND	Serial, 80MSPS*	60-LLP	7350.00/250		
ADC12DS105CISQCT-ND	Serial, 105MSPS*	60-LLP	55.86	48.81	45.57
ADC12DS105CISQTR-ND	Serial, 105MSPS*	60-LLP	10290.00/250		
ADC12EU050CIPLQ-ND	Serial, 50MSPS Sigma Delta ADC*	68-LLP	97.28	86.64	82.08
ADC12QS065CISQCT-ND	Serial, 65MSPS* ***NEW!***	60-LLP	51.30	44.82	41.85
ADC12QS065CISQTR-ND	Serial, 65MSPS* ***NEW!***	60-LLP	9450.00/250		
ADC12V170CISQCT-ND	Parallel, 170MSPS, LVDS Outputs*	48-LLP	54.15	47.31	44.18
ADC12V170CISQTR-ND	Parallel, 170MSPS, LVDS Outputs*	48-LLP	9975.00/250		
ADC78H89CIMT-ND	Serial, 500kSPS, 7-Channel*	16-TSSOP	6.66	5.36	4.88
ADC78H90CIMT-ND	Serial, 500kSPS, 8-Channel*	16-TSSOP	6.78	5.45	4.97
ADC121S021CIMFCT-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	3.30	2.70	2.42
ADC121S021CIMFTR-ND	Serial, 200kSPS, 1-Channel*	SOT-23-6	1540.00/1,000		
ADC121S021CISDCT-ND	Serial, 200kSPS, 1-Channel*	6-LLP	3.30	2.70	2.42
ADC121S021CISDTR-ND	Serial, 200kSPS, 1-Channel*	6-LLP	1540.00/1,000		
ADC121S051CIMFCT-ND	Serial, 500kSPS, 1-Channel*	SOT-23-6	4.14	3.39	3.04
ADC121S051CIMFTR-ND	Serial, 500kSPS, 1-Channel*	SOT-23-6	1932.00/1,000		
ADC121S051CISDCT-ND	Serial, 500kSPS, 1-Channel*	6-LLP	4.14	3.39	3.04
ADC121S051CISDTR-ND	Serial, 500kSPS, 1-Channel*	6-LLP	1932.00/1,000		
ADC121S101CIMFCT-ND	Serial, 1MSPS, 1-Channel*	SOT-23-6	4.56	3.73	3.35
ADC121S101CIMFTR-ND	Serial, 1MSPS, 1-Channel*	SOT-23-6	2128.00/1,000		
ADC121S101CISDCT-ND	Serial, 1MSPS, 1-Channel*	6-LLP	4.56	3.73	3.35
ADC122S021CIMMCT-ND	Serial, 200kSPS, 2-Channel	8-MSOP	4.14	3.39	3.04
ADC122S021CIMMTR-ND	Serial, 200kSPS, 2-Channel	8-MSOP	1932.00/1,000		
ADC122S051CIMMCT-ND	Serial, 500kSPS, 2-Channel* ***NEW!***	8-MSOP	4.71	3.85	3.46
ADC122S051CIMMTR-ND	Serial, 500kSPS, 2-Channel* ***NEW!***	8-MSOP	2198.00/1,000		
ADC122S101CIMMCT-ND	Serial, 1MSPS, 2-Channel	8-MSOP	5.55	4.54	4.07
ADC122S101CIMMTR-ND	Serial, 1MSPS, 2-Channel	8-MSOP	2590.00/1,000		
ADC124S021CIMMCT-ND	Serial, 200kSPS, 4-Channel	10-MSOP	5.13	4.19	3.77
ADC124S021CIMMTR-ND	Serial, 200kSPS, 4-Channel	10-MSOP	2394.00/1,000		
ADC124S051CIMMCT-ND	Serial, 500kSPS, 4-Channel	10-MSOP	5.55	4.54	4.07
ADC124S051CIMMTR-ND	Serial, 500kSPS, 4-Channel	10-MSOP	2590.00/1,000		
ADC124S101CIMMCT-ND	Serial, 1MSPS, 4-Channel	10-MSOP	6.27	5.13	4.60
ADC124S101CIMMTR-ND	Serial, 1MSPS, 4-Channel	10-MSOP	2926.00/1,000		
ADC128S022CIMT-ND	Serial, 200kSPS, 8-Channel*	16-TSSOP	5.99	4.82	4.39
ADC128S052CIMT-ND	Serial, 500kSPS, 8-Channel*	16-TSSOP	6.78	5.45	4.97
ADC128S102CIMT-ND	Serial, 1MSPS, 8-Channel*	16-TSSOP	6.53	5.36	4.83
14 Bit Resolution – PowerWise® — RoHS Compliant					
ADC14C080CISQECT-ND	Parallel, 80MSPS	32-LLP	42.37	37.02	34.57
ADC14C080CISQETR-ND	Parallel, 80MSPS	32-LLP	7805.00/250		
ADC14C105CISQECT-ND	Parallel, 105MSPS	32-LLP	28.00	25.20	23.10
ADC14C105CISQETR-ND	Parallel, 105MSPS	32-LLP	5075.00/250		
ADC14DC105CISQECT-ND	Parallel, 105MSPS, Dual	60-LLP	99.00	87.00	82.50
ADC14DC105CISQETR-ND	Parallel, 105MSPS, Dual	60-LLP	19500.00/250		
ADC14DS080CISQECT-ND	Serial, 80MSPS, Dual ***NEW!***	60-LLP	59.85	53.01	49.59
ADC14DS080CISQETR-ND	Serial, 80MSPS, Dual ***NEW!***	60-LLP	11542.50/250		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor Digi-Reel® (Cont.)

ANALOG TO DIGITAL CONVERTERS (ADC)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADC14DS105AISQCT-ND	Serial, 105MSPS, Dual ***NEW!***	60-LLP	104.94	92.22	87.45
ADC14DS105CISQECT-ND	Serial, 105MSPS, Dual ***NEW!***	60-LLP	100.32	88.16	83.60
ADC14DS105CISQETR-ND	Serial, 105MSPS, Dual ***NEW!***	60-LLP	19760.00/250		
ADC14L020CIVY-ND	Parallel, 20MSPS, 150mW A/D Converter	32-LQFP	21.96	18.47	16.97
ADC14L040CIVY-ND	Parallel, 40MSPS, 235mW	32-LQFP	22.80	19.38	17.96
ADC14V155CISQCT-ND	Parallel, 155MSPS, 1.1GHz Bandwidth	48-LLP	86.30	75.84	71.92
ADC14V155CISQTR-ND	Parallel, 155MSPS, 1.1GHz Bandwidth	48-LLP	16997.50/250		
ADC141S626CIMMCT-ND	Serial, 250kSPS	10-MSOP	9.57	7.95	7.22
ADC141S626CIMMTR-ND	Serial, 250kSPS	10-MSOP	4874.00/1,000		
ADC14155CISQCT-ND	Parallel, 155MSPS, 1.1GHz Bandwidth	48-LLP	105.27	92.51	87.73
ADC14155CISQTR-ND	Parallel, 155MSPS, 1.1GHz Bandwidth	48-LLP	20735.00/250		
16 Bit Resolution – PowerWise® — RoHS Compliant					
ADC16V130CISQECT-ND	Serial, 130MSPS	64-LLP	108.24	95.12	90.20
ADC16V130CISQETR-ND	Serial, 130MSPS	64-LLP	21320.00/250		
ADC161S626CIMMCT-ND	Serial, 250kSPS, Differential Input	10-MSOP	12.59	10.45	9.50
ADC161S626CIMMTR-ND	Serial, 250kSPS, Differential Input	10-MSOP	6413.00/1,000		

National Semiconductor Digi-Reel®

DIGITAL TO ANALOG CONVERTERS (DAC)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
8 Bit Resolution					
DAC081C081CIMKCT-ND	Serial, I2C Compatible*	6-TSOT	2.36	1.90	1.71
DAC081C081CIMKTR-ND	Serial, I2C Compatible*	6-TSOT	1102.00/1,000		
DAC081C081CISDCT-ND	Serial, I2C Compatible*	6-LLP	2.36	1.90	1.71
DAC081C081CISDTR-ND	Serial, I2C Compatible*	6-LLP	1102.00/1,000		
DAC081C085CIMMCT-ND	Serial, I2C Compatible w/ Ext. Ref.*	8-MSOP	2.66	2.06	1.87
DAC081C085CIMMTR-ND	Serial, I2C Compatible w/ Ext. Ref.*	8-MSOP	1102.00/1,000		
DAC088S085CIMT-ND	Serial, Octal, Rail-to-Rail Output*	16-TSSOP	5.60	4.50	4.10
DAC088S085CISQCT-ND	Serial, Octal, Rail-to-Rail Output	16-LLP	5.60	4.50	4.10
DAC088S085CISQTR-ND	Serial, Octal, Rail-to-Rail Output	16-LLP	2800.00/1,000		
DAC0800LCM-ND	Parallel*	16-SOIC	1.61	1.29	1.13
DAC0800LCN-ND	Parallel, 0.19% Linearity*	16-Dip	1.71	1.38	1.24
DAC0808LCM-ND	Parallel*	16-SOIC	1.74	1.40	1.26
DAC0808LCN-ND	Parallel, 0.19% Linearity*	16-Dip	2.06	1.67	1.50
DAC0830LCN-ND	Parallel, µP Compatible, Double Buffered*	20-Dip	7.03	5.77	5.20
DAC0832LCN-ND	Parallel, µP Compatible, 0.20% Linearity*	20-Dip	3.84	3.09	2.81
DAC0832LCWM-ND	Parallel, µP Compatible*	20-SOIC	3.84	3.09	2.81
8 Bit Resolution – PowerWise® — RoHS Compliant					
DAC081S101CIMKCT-ND	Serial, Rail-to-Rail Output	TSOT-23-6	1.83	1.42	1.29
DAC081S101CIMKTR-ND	Serial, Rail-to-Rail Output	TSOT-23-6	758.00/1,000		
DAC081S101CIMMCT-ND	Serial, Rail-to-Rail Output	8-MSOP	1.83	1.42	1.29
DAC081S101CIMMTR-ND	Serial, Rail-to-Rail Output	8-MSOP	758.00/1,000		
DAC082S085CIMMCT-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	3.19	2.47	2.24
DAC082S085CISDCT-ND	Serial, Dual, Rail-to-Rail Output ***NEW!***	10-LLP	3.19	2.47	2.24
DAC082S085CISDTR-ND	Serial, Dual, Rail-to-Rail Output ***NEW!***	10-LLP	1322.00/1,000		
DAC082S085CIMMTR-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	1322.00/1,000		
DAC084S085CIMMCT-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	3.42	2.80	2.51
DAC084S085CIMMTR-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	1596.00/1,000		
DAC084S085CISDCT-ND	Serial, Quad, Rail-to-Rail Output ***NEW!***	10-LLP	3.42	2.80	2.51
DAC084S085CISDTR-ND	Serial, Quad, Rail-to-Rail Output ***NEW!***	10-LLP	1596.00/1,000		
10 Bit Resolution — RoHS Compliant					
DAC101C081CIMKCT-ND	Serial, I2C Compatible	6-TSOT	3.00	2.43	2.19
DAC101C081CIMKTR-ND	Serial, I2C Compatible	6-TSOT	1405.00/1,000		
DAC101C081CISDCT-ND	Serial, I2C Compatible	6-LLP	3.00	2.43	2.19
DAC101C081CISDTR-ND	Serial, I2C Compatible	6-LLP	1405.00/1,000		
DAC101C085CIMMCT-ND	Serial, I2C Compatible	8-MSOP	3.00	2.43	2.19
DAC101C085CIMMTR-ND	Serial, I2C Compatible	8-MSOP	1405.00/1,000		
10 Bit Resolution – PowerWise® — RoHS Compliant					
DAC101S101CIMKCT-ND	Serial, Rail-to-Rail Output	TSOT-23-6	2.16	1.67	1.52
DAC101S101CIMKTR-ND	Serial, Rail-to-Rail Output	TSOT-23-6	895.00/1,000		
DAC101S101CIMMCT-ND	Serial, Rail-to-Rail Output	8-MSOP	2.16	1.67	1.52
DAC101S101CIMMTR-ND	Serial, Rail-to-Rail Output	8-MSOP	895.00/1,000		
DAC101S101QCMKCT-ND	Serial, Rail-to-Rail Output	6-TSOT	2.28	1.87	1.68
DAC101S101QCMKTR-ND	Serial, Rail-to-Rail Output	6-TSOT	1064.00/1,000		
DAC102S085CIMMCT-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	4.11	3.36	3.02
DAC102S085CIMMTR-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	1918.00/1,000		
DAC104S085CIMMCT-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	6.21	5.08	4.56
DAC104S085CIMMTR-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	2898.00/1,000		
DAC108S085CIMT-ND	Serial, Octal, R/R Output	16-TSSOP	8.20	6.73	6.07
DAC104S085CISDCT-ND	Serial, Quad, Rail-to-Rail Output ***NEW!***	10-LLP	6.21	5.08	4.56
DAC104S085CISDTR-ND	Serial, Quad, Rail-to-Rail Output ***NEW!***	10-LLP	2898.00/1,000		
DAC108S085CISQCT-ND	Serial, Octal, Rail-to-Rail Outputs	16-LLP	8.20	6.73	6.07
DAC108S085CISQTR-ND	Serial, Octal, Rail-to-Rail Outputs	16-LLP	4428.00/1,000		
12 Bit Resolution — RoHS Compliant					
DAC121C081CIMKCT-ND	Serial, I2C Compatible	6-TSOT	3.27	2.68	2.40
DAC121C081CIMKTR-ND	Serial, I2C Compatible	6-TSOT	1526.00/1,000		
DAC121C081CISDCT-ND	Serial, I2C Compatible	6-LLP	3.05	2.46	2.24
DAC121C081CISDTR-ND	Serial, I2C Compatible	6-LLP	1526.00/1,000		
DAC121C085CIMMCT-ND	Serial, I2C Compatible	8-MSOP	3.27	2.68	2.40
DAC121C085CIMMTR-ND	Serial, I2C Compatible	8-MSOP	1526.00/1,000		
12 Bit Resolution – PowerWise® — RoHS Compliant					
DAC121S101CIMKCT-ND	Serial, Rail-to-Rail Output	6-TSOT	3.27	2.68	2.40
DAC121S101CIMKTR-ND	Serial, Rail-to-Rail Output	6-TSOT	1526.00/1,000		
DAC121S101CIMMCT-ND	Serial, Rail-to-Rail Output	8-MSOP	3.27	2.68	2.40
DAC121S101CIMMTR-ND	Serial, Rail-to-Rail Output	8-MSOP	1526.00/1,000		
DAC122S085CIMMCT-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	5.28	4.32	3.88
DAC122S085CIMMTR-ND	Serial, Dual, Rail-to-Rail Output	10-MSOP	2464.00/1,000		
DAC124S085CIMMCT-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	7.82	6.49	5.90
DAC124S085CIMMTR-ND	Serial, Quad, Rail-to-Rail Output	10-MSOP	3983.00/1,000		
DAC128S085CIMT-ND	Serial, 8-Channel, Rail-to-Rail Output	16-TSSOP	12.12	10.20	9.37
DAC128S085CISQCT-ND	Serial, 8-Channel, Rail-to-Rail Output	16-LLP	12.67	10.75	9.92
DAC128S085CISQTR-ND	Serial, 8-Channel, Rail-to-Rail Output	16-LLP	7328.00/1,000		

National Semiconductor Digi-Reel®

AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CLC730136-ND	Single SOT-23 High Speed Buffer Evaluation Board*	—	3.99	—	—
CLC730145-ND	Quad SOIC High Speed Buffer Evaluation Board*	—	3.99	—	—
CLC730231-ND	Quad SOIC High Speed Op Amp Evaluation Board*	—	3.99	—	—
LF156H-ND	Mono JFET In Op Amp*	TO-99-8	8.55	7.02	6.33
LF256H-ND	Wideband JFET Op Amp*	TO-99-8	8.55	7.02	6.33
LF347BN-ND	Quad Bi-FET Op Amp*	14-Dip	2.52	2.03	1.83
LF347M-ND	Quad Bi-FET Op Amp*	14-SOIC	2.64	2.13	1.92

National Semiconductor Digi-Reel® (Cont.)

AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LF347MXTR-ND	Quad Bi-FET Op Amp*	14-SOIC	2872.50/2,500		
LF347NNS-ND	Quad Bi-FET Op Amp*	14-Dip	2.27	1.83	1.65
LF353M-ND	Wideband Dual JFET Op Amp*	8-SOIC	1.21	.97	.85
LF353MXCT-ND	Wideband Dual JFET Op Amp*	8-SOIC	1.31	1.04	.94
LF353MXTR-ND	Wideband Dual JFET Op Amp*	8-SOIC	1207.50/2,500		
LF353NNS-ND	Wideband Dual JFET Input Op Amp*	8-Dip	1.28	1.03	.90
LF356H-ND	Monolithic JFET Input Op Amp*	TO-99-8	8.55	7.02	6.33
LF356M-ND	Monolithic JFET Input Op Amp*	8-SOIC	1.05	.84	.74
LF356N-ND	Monolithic JFET Input Op Amp*	8-Dip	1.09	.87	.76
LF411ACN-ND	Low Offset Low Drift JFET Input Op Amp*	8-Dip	6.78	5.45	4.97
LF411CN-ND	Low Offset Low Drift JFET Input Op Amp*	8-Dip	1.54	1.24	1.08
LF412ACN-ND	Low Offset Low Drift JFET Dual Op Amp*	8-Dip	5.57	4.48	4.08
LF412CN-ND	Low Offset Low Drift JFET Dual Op Amp*	8-Dip	1.64	1.33	1.20
LF412MH-ND	Low Offset Low Drift JFET Dual Op Amp*	TO-5	10.80	8.86	8.00
LF442ACN-ND	Dual Low Power JFET Op Amp*	8-Dip	6.41	5.16	4.70
LF442AMH-ND	Dual Low Power JFET Op Amp*	TO-99-8	23.20	19.72	18.27
LF442CN-ND	Dual Low Power JFET Op Amp*	8-Dip	1.68	1.35	1.18
LF444ACN-ND	Quad Low Power JFET Op Amp*	14-Dip	3.16	2.55	2.32
LF444CM-ND	Quad Low Power JFET Op Amp*	14-SOIC	1.99	1.61	1.45
LF444CN-ND	Quad Low Power JFET Op Amp*	14-Dip	2.03	1.64	1.48
LM10CH-ND	Op Amp and Voltage Reference*	TO-5	9.38	7.69	6.94
LM10CLN-ND	Op Amp and Voltage Reference*	8-Dip	3.39	2.73	2.49
LM10CN-ND	Op Amp and Voltage Reference*	8-Dip	3.16	2.55	2.32
LM10CWM-ND	Op Amp and Voltage Reference*	14-SOIC	3.00	2.41	2.20
LM111H-ND	Voltage Comparator*	TO-99-8	8.45	6.93	6.26
LM111J-8-ND	Voltage Comparator	8-CDip	12.76	10.73	9.86
LM124AJ-ND	Low Power Quad Op Amp	14-CDip	8.25	6.77	6.11
LM124J-ND	Low Power Quad Op Amp	14-CDip	8.25	6.77	6.11
LM139J-ND	Low Power Low Offset Quad Comp	14-CDip	10.00	8.20	7.40
LM148J-ND	Quad 741 Op Amp	14-CDip	9.50	7.79	7.03
LM158AH-ND	Low Power Dual Op Amp*	TO-99-8	9.50	7.79	7.03
LM158H-ND	Low Power Dual Op Amp*	TO-99-8	7.88	6.46	5.83
LM193H-ND	Low Power Offset Voltage Dual Comparator*	TO-99-8	7.93	6.50	5.87
LM224J-ND	Low Power Quad Op Amp	14-CDip	8.25	6.77	6.11
LM239J-ND	High Performance Quad Comparator	14-CDip	10.00	8.20	7.40
LM301AH-ND	General Purpose Op Amp*	TO-99-8	8.35	6.85	6.18
LM301ANNS-ND	General Purpose Op Amp*	8-Dip	.98	.79	.69
LM311H-ND	Voltage Comparator* ***NEW!***	TO-99-8	7.31	6.00	5.41
LM311MNS-ND	Voltage Comparator*	8-SOIC	.96	.75	.65
LM311MXCT-ND	Voltage Comparator*	8-SOIC	1.06	.82	.72
LM311MXTR-ND	Voltage Comparator*	8-SOIC	870.00/2,500		
LM311NNS-ND	High Performance Voltage Comparator*	8-Dip	.98	.79	.69
LM318M-ND	High Slew Rate Op Amp*	8-SOIC	1.28	1.03	.90
LM318N-ND	High Slew Rate Op Amp*	8-Dip	1.31	1.05	.92
LM319AM-ND	High Speed Dual Comparator*	14-SOIC	1.57	1.27	1.15
LM319M-ND	High Speed Dual Comparator*	14-SOIC	1.28	1.03	.90
LM319MXCT-ND	High Speed Dual Comparator* ***NEW!***	14-SOIC	1.39	1.10	.99
LM319MXTR-ND	High Speed Dual Comparator*	14-SOIC	1277.50/2,500		
LM319NNS-ND	High Speed Dual Comparator*	14-Dip	2.35	1.90	1.71
LM321MFCT-ND	Low Power Single Op Amp*	SOT-23-5	.84	.65	.57
LM321MFTR-ND	Low Power Single Op Amp*	SOT-23-5	304.00/1,000		
LM324AMNS-ND	Low Power Quad Op Amp*	14-SOIC	1.19	.96	.84
LM324AMXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.29	1.02	.92
LM324AMXTR-ND	Low Power Quad Op Amp*	14-SOIC	1190.00/2,500		
LM324ANNS-ND	Low Power Quad Op Amp*	14-Dip	1.37	1.10	.96
LM324MNS-ND	Low Power Quad Op Amp*	14-SOIC	1.16	.93	.82
LM324MT-ND	Low Power Quad Op Amp*	14-TSSOP	1.70	1.37	1.20
LM324MXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.26	1.00	.90
LM324MXTR-ND	Low Power Quad Op Amp*	14-SOIC	1162.50/2,500		
LM324NNS-ND	Low Power Quad Op Amp*	14-Dip	1.28	1.03	.90
LM339AMXCT-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.25	.99	.90
LM339AMXTR-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1155.00/2,500		
LM339ANNS-ND	Low Power Low Offset Voltage Quad Comparator*	14-Dip	1.30	1.04	.91
LM339AM-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.16	.93	.81
LM339MNS-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.02	.82	.72
LM339MXCT-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.10	.87	.79
LM339MXTR-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1015.00/2,500		
LM339NNS-ND	High Performance Quad Comparator*	14-Dip	1.16	.93	.81
LM348M-ND	Quad 741 Operational Amp*	14-SOIC	1.30	1.04	.91
LM348NNS-ND	Quad 741 Operational Amp*	14-Dip	1.30	1.04	.91
LM358AMNS-ND	Low Power Dual Op Amp*	8-SOIC	.92	.74	.65
LM358AMXCT-ND	Low Power Dual Op Amp*	8-SOIC	1.00	.80	.72
LM358AMXTR-ND	Low Power Dual Op Amp*	8-SOIC	925.00/2,500		
LM358ANNS-ND	Low Power Dual Op Amp (Elect. Improv.)*	8-Dip	1.03	.83	.73
LM358MNS-ND	Low Power Dual Op Amp*	8-SOIC	.88	.70	.62
LM358MXCT-ND	Low Power Dual Op Amp*	8-SOIC	1.10	.85	.75
LM358MXTR-ND	Low Power Dual Op Amp*	8-SOIC	875.00/2,500		
LM358NNS-ND	Low Power Dual Op Amp*	8-Dip	.99	.79	.70
LM359M-ND	Dual, High Speed Prog. Current Mode (Norton) Amp*	14-SOIC	3.22	2.59	2.36
LM360M-ND	High Speed Differential Comparator*	8-SOIC	5.32	4.28	3.90
LM361M/NOPB-ND	High Speed Differential Comparator*	14-SOIC	2.98	2.40	2.16
LM361N-ND	High Speed Differential Comparator*	14-Dip	3.39	2.73	2.49
LM392M-ND	Single Op Amp and Comparator*	8-SOIC	1.37	1.10	.96
LM392N-ND	Op Amp and Comparator*	8-Dip	1.55	1.25	1.13
LM393MNS-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	.96	.75	.65
LM393MXCT-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	1.06	.82	.72
LM393MXTR-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	870.00/2,500		
LM393NNS-ND	Dual Comparator*	8-Dip	.98	.79	.69
LM611CM-ND	Op Amp and Adjustable Reference*	14-SOIC	2.23	1.80	1.62
LM611IM-ND	Op Amp and Adjustable Reference*	14-SOIC	2.51	2.03	1.83
LM613IWM-ND	Dual Op Amp, Dual Comparator and Adj. Reference	16-SOIC	3.89	3.13	2.85
LM614CWM-ND	Quad Op Amp with Adjustable Reference	16-SOIC	3.72	3.00	2.73
LM675T-ND	Power Operational Amplifier*	TO-220-5	6.55	5.27	4.80
LM741CH-ND	18V, High Performance Op Amp*	TO-99-8	8.33	6.83	6.17
LM741CNNS-ND	18V, High Performance Op Amp*	8-Dip	.88	.69	.60
LM741H-ND	High Performance Op Amp High Temp*	TO-99-8	8.33	6.83	6.17
LM833M-ND	Dual Audio Op Amp*	8-SOIC	1.02	.82	.72
LM833MXTR-ND	Dual Audio Op Amp*	8-SOIC	1015.00/2,500		
LM833MMCT-ND	Dual Audio Op Amp*	8-MSOP	1.12	.89	.80
LM833MMTR-ND	Dual Audio Op Amp*	8-MSOP	444.00/1,000		
LM833NNS-ND	Dual Audio Op Amp*	8-Dip	1.08	.87	.76
LM837M-ND	Low Noise Quad Op Amp*	14-SOIC	1.72	1.38	1.21

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(Continued)

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM837MXCT-ND	Low Noise Quad Op Amp*	14-SOIC	1.86	1.47	1.33
LM837MXTR-ND	Low Noise Quad Op Amp*	14-SOIC	1715.00/2,500		
LM1269NA-ND	110MHz, I²C Compatible RGB Video Amp System*	24-Dip	2.60	2.10	1.89
LM1458M-ND	Dual Op Amp*	8-SOIC	1.04	.84	.74
LM1458MXCT-ND	Dual Op Amp*	8-SOIC	1.13	.90	.81
LM1458MXTR-ND	Dual Op Amp*	8-SOIC	1042.50/2,500		
LM1458NNS-ND	Dual Op Amp*	8-Dip	1.18	.95	.83
LM1815N-ND	Adaptive Sensor Amp*	14-Dip	4.06	3.27	2.98
LM2876TF-ND	High Performance 40W Audio Power Amp with Mute*	TO-220-11	7.14	5.74	5.23
LM2901M-ND	Quad Voltage Comparator*	14-SOIC	1.02	.82	.72
LM2901MXCT-ND	Quad Voltage Comparator*	14-SOIC	1.10	.87	.79
LM2901MXTR-ND	Quad Voltage Comparator*	14-SOIC	1015.00/2,500		
LM2901NNS-ND	Quad Voltage Comparator*	14-Dip	1.16	.93	.81
LM2902M-ND	Low Power Quad Op Amp*	14-SOIC	1.16	.93	.81
LM2902MXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.25	.99	.90
LM2902MXTR-ND	Low Power Quad Op Amp*	14-SOIC	1155.00/2,500		
LM2902NNS-ND	Low Power Quad Op Amp*	14-Dip	1.33	1.07	.94
LM2903MNS-ND	Dual Comparator*	8-SOIC	.98	.76	.66
LM2903MXCT-ND	Dual Comparator*	8-SOIC	1.07	.83	.74
LM2903MXTR-ND	Dual Comparator*	8-SOIC	885.00/2,500		
LM2903NNS-ND	Dual Comparator*	8-Dip	1.12	.90	.79
LM2904MNS-ND	Low Power Dual Op Amp*	8-SOIC	.91	.73	.64
LM2904NNS-ND	Dual Op Amp*	8-Dip	1.02	.82	.72
LM3875TF-ND	High Performance 56W Audio Power Amp*	TO-220-11	7.90	6.48	5.85
LM3876T-ND	High Performance 56W Audio Power Amp with Mute*	TO-220-11	7.78	6.38	5.76
LM3876TF-ND	High Performance 56W Audio Power Amp with Mute*	TO-220-11	7.78	6.38	5.76
LM3886T-ND	High Performance 68W Audio Power Amp with Mute*	TO-220-11	7.30	5.99	5.41
LM3886TF-ND	High Performance 68W Audio Power Amp with Mute*	TO-220-11	7.30	5.99	5.41
LM4250CM-ND	Programmable Op Amp*	8-SOIC	1.33	1.07	.94
LM4250CMXTR-ND	Programmable Op Amp*	8-SOIC	1330.00/2,500		
LM4250CN-ND	Programmable Op Amp	8-Dip	1.40	1.12	.98
LM6132AIM-ND	Dual High Speed/Low Power 7MHz, R-R Op Amp*	8-SOIC	3.72	3.00	2.73
LM6132BIM-ND	Dual High Speed/Low Power 7MHz, R-R Op Amp*	8-SOIC	3.33	2.68	2.44
LM6132BIN-ND	Dual High Speed/Low Power 7MHz, R-R Op Amp*	8-Dip	3.33	2.68	2.44
LM6134AIM/NOPB-ND	Quad High Speed/LP 7MHz, Rail-to-Rail Op Amp*	14-SOIC	4.87	3.92	3.57
LM6134BIM-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp*	14-SOIC	4.23	3.40	3.10
LM6134BIMX/NOPBCT-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp* ***NEW!***	14-SOIC	4.53	3.70	3.32
LM6134BIMX/NOPBTR-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp	14-SOIC	5020.00/2,500		
LM6134BIN-ND	Quad High Speed/Low Power, 7MHz, R-R Op Amp*	14-Dip	4.56	3.67	3.35
LM6142AIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp*	8-SOIC	6.58	5.29	4.82
LM6142BIM/NOPB-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp*	8-SOIC	5.88	4.73	4.31
LM6144AIM-ND	Quad HS/LP 17MHz Rail-to-Rail Op Amp* ***NEW!***	14-SOIC	9.10	7.47	6.74
LM6144BIM-ND	Quad High Speed/Low Power 17MHz R-R Op Amp*	14-SOIC	7.00	5.74	5.18
LM6152ACM-ND	Dual High Speed 75MHz, Rail-to-Rail, I/O, Op Amp*	8-SOIC	4.93	3.96	3.61
LM6152BCM-ND	Dual High Speed 75MHz, Rail-to-Rail, I/O, Op Amp*	8-SOIC	3.98	3.20	2.92
LM6154BCM-ND	Quad High Speed 75MHz, Rail-to-Rail, I/O, Op Amp*	14-SOIC	6.43	5.27	4.76
LM6171AIM-ND	Voltage Feedback Low Distortion, LP Op Amp*	8-SOIC	3.44	2.77	2.53
LM6171BIM-ND	Voltage Feedback Low Distortion, LP Op Amp*	8-SOIC	2.83	2.28	2.08
LM6171BIN-ND	Voltage Feedback Low Distortion, LP Op Amp*	8-Dip	2.83	2.28	2.08
LM6172IM-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp*	8-SOIC	4.26	3.42	3.12
LM6172IMXCT-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp*	8-SOIC	4.56	3.73	3.35
LM6172IMXTR-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp*	8-SOIC	5055.00/2,500		
LM6172IN-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp*	8-Dip	4.26	3.42	3.12
LM6181IM-8-ND	100mA, 100MHz Current Feedback Amp*	8-SOIC	2.97	2.39	2.18
LM6181IN-ND	Current Feedback Amp, 100MHz*	8-Dip	2.97	2.39	2.18
LM7332MA-ND	Dual 30V, R-R, I/O Op Amp*	8-SOIC	3.47	2.79	2.55
LM7332MMECT-ND	Dual 30V, R-R, I/O Op Amp*	8-MSOP	3.72	3.04	2.73
LM7332MMETR-ND	Dual 30V, R-R, I/O Op Amp*	8-MSOP	1029.00/500		
LM12458CIV-ND	12-Bit Data Aquisition System* ***NEW!***	44-PLCC	24.40	20.74	19.22
LM48410SQCT-ND	2.3W Stereo Class D Audio Power Amplifier*	24-LLP	3.90	3.19	2.86
LM48410SQTR-ND	2.3W Stereo Class D Audio Power Amplifier*	24-LLP	1820.00/1,000		
LM48411TLCT-ND	Ultra-Low EMI, 2.5W, Class D Audio Power Amp*	16-µSMD	2.17	1.68	1.52
LM48411TLTR-ND	Ultra-Low EMI, 2.5W, Class D Audio Power Amp*	16-µSMD	310.00/250		
LM48510SDCT-ND	Boosted 1.9W Class D Audio Power Amplifier*	16-LLP	3.42	2.80	2.51
LM48510SDTR-ND	Boosted 1.9W Class D Audio Power Amplifier*	16-LLP	1596.00/1,000		
LM48511SQCT-ND	Boosted 6.7W Class D Audio Power Amplifier*	24-LLP	4.35	3.56	3.19
LM48511SQTR-ND	Boosted 6.7W Class D Audio Power Amplifier*	24-LLP	2030.00/1,000		
LM48555TLCT-ND	Ceramic Speaker Driver*	12-µSMD	3.00	2.45	2.20
LM48555TLTR-ND	Ceramic Speaker Driver*	12-µSMD	462.50/250		
LM48556TLCT-ND	Full Diff., Mono Ceramic Speaker Driver*	12-µSMD	3.15	2.58	2.31
LM48556TLTR-ND	Full Diff., Mono Ceramic Speaker Driver*	12-µSMD	485.75/250		
LM48820TMCT-ND	.95W Ground Referenced Stereo Headphone Amp*	14-µSMD	2.07	1.60	1.45
LM48820TMTR-ND	.95W Ground Referenced Stereo Headphone Amp*	14-µSMD	295.00/250		
LM48821TLCT-ND	.93W Direct Coupled Stereo Headphone Amp*	16-µSMD	2.38	1.84	1.67
LM48821TLTR-ND	.93W Direct Coupled Stereo Headphone Amp*	16-µSMD	340.00/250		
LM49100GRCT-ND	Mono Class-AB Subsystem Headphone Amp*	25-µArray	7.95	6.60	6.00
LM49101TMCT-ND	Mono Class-AB Audio Subsystem* ***NEW!***	25-µSMD	3.49	2.70	2.45
LM49101TMTR-ND	Mono Class-AB Audio Subsystem* ***NEW!***	25-µSMD	499.00/250		
LM49370RLCT-ND	Audio Sub-System*	49-µSMDxt	9.20	7.64	6.94
LM49370RLTR-ND	Audio Sub-System*	49-µSMDxt	1474.75/250		
LMC660AIM-ND	Quad CMOS Op Amp, Industrial Temperature*	14-SOIC	2.26	1.83	1.65
LMC660AIMXCT-ND	Quad CMOS Op Amp, Industrial Temperature* ***NEW!***	14-SOIC	2.56	1.98	1.79
LMC660AIMXTR-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2465.00/2,500		
LMC660AIN-ND	Quad CMOS Op Amp, Industrial Temperature*	14-Dip	2.36	1.90	1.71
LMC660CM-ND	Quad CMOS Op Amp*	14-SOIC	1.98	1.60	1.44
LMC660CMXCT-ND	Quad CMOS Op Amp*	14-SOIC	2.24	1.73	1.57
LMC660CMXTR-ND	Quad CMOS Op Amp*	14-SOIC	2160.00/2,500		
LMC660CN-ND	Quad CMOS Op Amp*	14-Dip	1.98	1.60	1.44
LMC662AIM-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	2.11	1.70	1.53
LMC662AIMX/NOPBCT-ND	Dual CMOS Op Amp, Industrial Temperature* ***NEW!***	8-SOIC	2.38	1.84	1.67
LMC662AIMX/NOPBTR-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	2295.00/2,500		
LMC662AIN-ND	Dual CMOS Op Amp*	8-Dip	2.33	1.88	1.69
LMC662CM-ND	Dual CMOS Op Amp*	8-SOIC	1.95	1.58	1.42
LMC662CMXTR-ND	Dual CMOS Op Amp*	8-SOIC	2127.50/2,500		
LMC662CN-ND	Dual CMOS Op Amp*	8-Dip	2.08	1.68	1.51
LMC6001BIN-ND	Ultra Ultra-Low Input Current Amp*	8-Dip	12.25	10.05	9.07
LMC6024IM-ND	Micropower Quad CMOS Op Amp*	14-SOIC	1.80	1.45	1.31
LMC6032IM-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	1.12	.90	.79
LMC6032IN-ND	Dual CMOS Op Amp, Industrial Temperature*	8-Dip	1.12	.90	.79
LMC6034IM-ND	Quad CMOS Op Amp*	14-SOIC	1.56	1.26	1.14
LMC6035IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-SOIC	1.62	1.31	1.18
LMC6035IMMCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.16	1.67	1.52
LMC6035IMMTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	896.00/1,000		
LMC6035ITLCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-µSMD	2.01	1.56	1.41
LMC6035ITLTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-µSMD	287.50/250		

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMC6036IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	14-SOIC	2.77	2.24	2.01
LMC6041AIM-ND	Single CMOS Micropower Op Amp*	8-SOIC	2.82	2.28	2.05
LMC6041IM-ND	Single CMOS Micropower Op Amp*	8-SOIC	2.02	1.63	1.47
LMC6041IN-ND	Single CMOS Micropower Op Amp*	8-Dip	2.02	1.63	1.47
LMC6042AIM-ND	Dual CMOS Micropower Op Amp*	8-SOIC	2.94	2.37	2.16
LMC6042AIN-ND	Dual CMOS Micropower Op Amp*	8-Dip	2.94	2.37	2.16
LMC6042IM-ND	Dual CMOS Micropower Op Amp*	8-SOIC	2.76	2.23	2.01
LMC6042IN-ND	Dual CMOS Micropower Op Amp*	8-Dip	2.76	2.23	2.01
LMC6044AIM-ND	Quad CMOS Micropower Op Amp*	14-SOIC	3.78	3.04	2.77
LMC6044IM-ND	Quad CMOS Micropower Op Amp*	14-SOIC	2.85	2.30	2.07
LMC6044IN-ND	Quad CMOS Micropower Op Amp*	14-Dip	2.85	2.30	2.07
LMC6061AIM-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	1.90	1.53	1.38
LMC6061IM/NOPB-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	1.65	1.32	1.16
LMC6062AIM-ND	Precision Dual CMOS Micropower Op Amp*	8-SOIC	3.84	3.09	2.81
LMC6062IM-ND	Precision Dual CMOS Micropower Op Amp*	8-SOIC	3.01	2.43	2.19
LMC6062IN-ND	Precision Dual CMOS Micropower Op Amp*	8-Dip	2.88	2.32	2.12
LMC6064AIM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	6.08	4.89	4.45
LMC6064IM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	4.48	3.60	3.28
LMC6064IN-ND	Precision Quad CMOS Micropower Op Amp*	14-Dip	4.68	3.76	3.43
LMC6081AIM-ND	Precision Single CMOS Op Amp*	8-SOIC	4.40	3.54	3.22
LMC6081IM-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	3.05	2.46	2.24
LMC6081IN-ND	Precision Single CMOS Op Amp*	8-Dip	3.05	2.46	2.24
LMC6082AIM-ND	Precision Dual CMOS Op Amp*	8-SOIC	5.82	4.68	4.27
LMC6082AIN-ND	Precision Dual CMOS Op Amp*	8-Dip	5.82	4.68	4.27
LMC6082IM-ND	Precision Dual CMOS Op Amp*	8-SOIC	3.28	2.64	2.40
LMC6082IN-ND	Precision Dual CMOS Op Amp*	8-Dip	3.28	2.64	2.40
LMC6084AIM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	6.90	5.66	5.11
LMC6442AIM-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-SOIC	2.70	2.18	1.96
LMC6442IM-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-SOIC	2.70	2.18	1.96
LMC6442IN-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-Dip	2.70	2.18	1.96
LMC6462AIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-SOIC	3.02	2.43	2.22
LMC6462AIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-Dip	3.11	2.50	2.28
LMC6462BIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-SOIC	2.66	2.15	1.94
LMC6462BIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-Dip	2.85	2.30	2.07
LMC6464AIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-SOIC	4.82	3.87	3.53
LMC6464BIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-SOIC	4.37	3.51	3.20
LMC6464BIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-Dip	4.56	3.67	3.35
LMC6482AIM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.33	1.88	1.69
LMC6482AIN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-Dip	2.21	1.79	1.61
LMC6482IM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	1.95	1.58	1.42
LMC6482IMMCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-MSOP	2.21	1.71	1.55
LMC6482IMMTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-MSOP	914.00/1,000		
LMC6482IN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-Dip	1.95	1.58	1.42
LMC6484AIM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3.67	2.95	2.69
LMC6484AIMXCT-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.93	3.21	2.89
LMC6484AIMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	4355.00/2,500		
LMC6484AIN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-Dip	4.34	3.49	3.18
LMC6484IM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3.02	2.43	2.22
LMC6484IMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3590.00/2,500		
LMC6484IN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-Dip	3.61	2.91	2.65
LMC6492AEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.97	2.39	2.18
LMC6492BEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.64	2.13	1.92
LMC6492BEMXCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.98	2.30	2.09
LMC6492BEMXTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2870.00/2,500		
LMC6494AEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	6.83	5.49	5.01
LMC6494BEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	4.45	3.58	3.26
LMC6762AIM-ND	CMOS Micropower Rail-to-Rail Comparator*	8-SOIC	2.86	2.30	2.10
LMC6762BIM-ND	CMOS Micropower Rail-to-Rail Comparator*	8-SOIC	2.61	2.11	1.90
LMC6772AIM-ND	Dual Micropower R/R CMOS Comp. w/Open Drain*	8-SOIC	3.00	2.41	2.20
LMC6772AIMMCT-ND	Dual Micropower R/R CMOS Comp. w/Open Drain*	8-MSOP	3.21	2.63	2.36
LMC6772AIMMTR-ND	Dual Micropower R/R CMOS Comp. w/Open Drain*	8-MSOP	1498.00/1,000		
LMC6772BIM-ND	Dual Micropower R/R CMOS Comp. w/Open Drain*	8-SOIC	2.75	2.22	2.00
LMC6772BIN-ND	Dual Micropower R/R CMOS Comp. w/Open Drain*	8-Dip	2.74	2.21	1.99
LMC6772QMMCT-ND	Dual Micropower R/R CMOS Comp. w/Open Drain* ***NEW!***	8-MSOP	3.42	2.80	2.51
LMC6772QMMTR-ND	Dual Micropower R/R CMOS Comp. w/Open Drain* ***NEW!***	8-MSOP	1596.00/1,000		
LMC7101AIM5XCT-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	1.79	1.41	1.27
LMC7101AIM5XTR-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	1974.00/3,000		
LMC7101BIM5NSCT-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	1.06	.84	.76
LMC7101BIM5NSTR-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	420.00/1,000		
LMC7111BIM5XCT-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output*	SOT-23-5	1.44	1.14	1.03
LMC7111BIM5XTR-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output*	SOT-23-5	1596.00/3,000		
LMC7211AIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	8-SOIC	1.71	1.38	1.24
LMC7211AIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	1.93	1.49	1.35
LMC7211AIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	798.00/1,000		
LMC7211BIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	8-SOIC	1.47	1.18	1.03
LMC7211BIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	1.60	1.26	1.14
LMC7211BIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	630.00/1,000		
LMC7215IM-ND	Micropwr R/R CMOS Comparator, OD/Push-Pull*	8-SOIC	1.68	1.36	1.23
LMC7215IM5CT-ND	Micropwr R/R CMOS Comp., OD/Push-Pull Output*	SOT-23-5	1.90	1.47	1.34
LMC7215IM5TR-ND	Micropwr R/R CMOS Comp., OD/Push-Pull Output*	SOT-23-5	787.00/1,000		
LMC7221AIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	8-SOIC	1.98	1.60	1.44
LMC7221AIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	2.24	1.73	1.57
LMC7221AIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	928.00/1,000		
LMC7221BIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	8-SOIC	1.55	1.25	1.13
LMC7221BIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	1.75	1.35	1.23
LMC7221BIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	725.00/1,000		
LMC7225IM5CT-ND	Micropwr CMOS Comp., R/R OD/Push-Pull Output*	SOT-23-5	1.86	1.47	1.33
LMC7225IM5TR-ND	Micropwr CMOS Comp., R/R OD/Push-Pull Output*	SOT-23-5	735.00/1,000		
LMC7660IM-ND	Switched Capacitor Voltage Converter*	8-SOIC	1.26	1.01	.88
LMC7660IMXCT-ND	Switched Capacitor Voltage Converter*	8-SOIC	1.36	1.08	.97
LMC7660IMXTR-ND	Switched Capacitor Voltage Converter*	8-SOIC	1257.50/2,500		
LMC7660IN-ND	Switched Capacitor Voltage Converter*	8-Dip	1.26	1.01	.88
LMC8101MMCT-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp*	8-µSMD	1.48	1.17	1.06
LMC8101MMTR-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp*	8-µSMD	585.00/1,000		
LMC8101TPCT-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-µSMD	1.48	1.17	1.06
LMC8101TPTR-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-µSMD	209.75/250		
LME49600TS-ND	High Perf., High Fidelity, High Current Audio Buffer*	TO-263-5	10.50	8.61	7.77
LME49722MA-ND	High Perf., high Fidelity Dual Audio Op Amp*	8-SOIC	3.64	2.93	2.67
LME49723MA-ND	Dual High Fidelity Audio Op Amp*	8-SOIC	1.55	1.25	1.13
LME49726MYCT-ND	High Current, Low Distortion, R/R Audio Op Amp* ***NEW!***	8-MSOP	2.31	1.79	1.62
LME49726MYTR-ND	High Current, Low Distortion, R/R Audio Op Amp* ***NEW!***	8-MSOP	957.00/1,000		
LME49810TB-ND	300W Audio Power Amplifier Driver*	TO-247-15	6.50	5.33	4.81
LME49811TB-ND	500W High Fidelity Driver*	TO-247-15	7.38	6.05	5.46

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LME49830TB-5-ND	Mono High Fidelity Audio Op Amp* ***NEW!***	TO-247-15	10.93	8.96	8.09
LME49860MA-ND	44V Dual High Performance High Fidelity Audio*	8-SOIC	4.34	3.49	3.18
LME49860NA-ND	44V Dual High Performance High Fidelity Audio*	8-Dip	4.34	3.49	3.18
LME49870MA-ND	44V High Performance Hi-Fi Audio Op Amp*	8-SOIC	2.80	2.25	2.05
LMH2180SDECT-ND	75MHz Dual Clock Buffer*	8-LLP	2.97	2.39	2.18
LMH2180SDETR-ND	75MHz Dual Clock Buffer*	8-LLP	490.25/250		
LMH2180TMCT-ND	75MHz High Speed Dual Clock Buffer*	8-µSMD	2.80	2.25	2.05
LMH2180TMTR-ND	75MHz High Speed Dual Clock Buffer*	8-µSMD	830.00/500		
LMH2180YDCT-ND	75MHz Dual Clock Buffer*	8-LLP	2.97	2.39	2.18
LMH2180YDTR-ND	75MHz Dual Clock Buffer*	8-LLP	1484.00/1,000		
LMH6321MR-ND	300mA High Speed Buffer*	8-PSOP	5.85	4.71	4.29
LMH6321TS-ND	300mA High Speed Buffer*	TO-263-7	5.85	4.71	4.29
LMH6502MA-ND	Wideband, LP, Linear-in-dB Variable Gain Amp*	14-SOIC	8.28	6.79	6.13
LMH6502MT-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-TSSOP	8.28	6.79	6.13
LMH6503MA-ND	Wideband, Low Power, Linear Variable Gain Amp*	14-SOIC	8.28	6.79	6.13
LMH6503MT-ND	Wideband, Low Power, Linear Variable Gain Amp*	14-TSSOP	8.28	6.79	6.13
LMH6504MA-ND	Wideband, Low Power, Variable Gain Amp	8-SOIC	5.99	4.82	4.39
LMH6504MMCT-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	6.42	5.25	4.71
LMH6504MMTR-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	2996.00/1,000		
LMH6505MA-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-SOIC	6.69	5.38	4.90
LMH6505MMCT-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-MSOP	7.17	5.86	5.26
LMH6505MMTR-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-MSOP	3346.00/1,000		
LMH6515SQCT-ND	600MHz, Digital Controlled, Variable Gain Amp*	16-LLP	10.18	8.45	7.68
LMH6552SDCT-ND	1.5GHz, Fully Differential Amp*	8-LLP	9.81	8.14	7.40
LMH6552SDTR-ND	1.5GHz, Fully Differential Amp*	8-LLP	4995.00/1,000		
LMH6559MA-ND	High Speed, Closed Loop Buffer*	8-SOIC	2.78	2.25	2.03
LMH6559MFCT-ND	High Speed, Closed Loop Buffer*	SOT-23-5	3.14	2.43	2.21
LMH6559MFTR-ND	High Speed, Closed Loop Buffer*	SOT-23-5	1302.00/1,000		
LMH6570MA-ND	2:1 High Speed Video Mux*	8-SOIC	6.22	5.00	4.56
LMH6572MQ-ND	Triple 2:1 High Speed Video Mux*	16-SSOP	8.30	6.81	6.15
LMH6574MA-ND	4:1 High Speed Video Mux*	14-SOIC	6.66	5.36	4.88
LMH6583YA-ND	16x8, 550MHz Analog Crosspoint Switch, Gain of 2*	64-TQFP	62.39	55.05	52.30
LMH6586VS-ND	32X16, 66MHz Video Crosspoint Switch*	80-TQFP	70.62	63.13	59.92
LMH6601MGCT-ND	250MHz, 2.4V CMOS Op Amp with Shutdown*	SC70-6	2.16	1.67	1.52
LMH6601MGTR-ND	250MHz, 2.4V CMOS Op Amp with Shutdown*	SC70-6	896.00/1,000		
LMH6601QMGCT-ND	250MHz, 2.4V CMOS Op Amp with Shutdown* ***NEW!***	SC70-6	2.83	2.19	1.98
LMH6601QMGTR-ND	250MHz, 2.4V CMOS Op Amp with Shutdown* ***NEW!***	SC70-6	1172.00/1,000		
LMH6609MA-ND	900MHz Voltage Feedback Op Amp*	8-SOIC	2.77	2.24	2.01
LMH6609MFCT-ND	900MHz Voltage Feedback Op Amp*	SOT-23-5	3.13	2.42	2.19
LMH6609MFTR-ND	900MHz Voltage Feedback Op Amp*	SOT-23-5	1295.00/1,000		
LMH6611MKECT-ND	345MHz Rail-to-Rail Output Op Amp*	TSOT-23-6	3.84	3.14	2.82
LMH6611MKETR-ND	345MHz Rail-to-Rail Output Op Amp*	TSOT-23-6	592.00/250		
LMH6640MFCT-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	3.24	2.65	2.38
LMH6640MFTR-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	1512.00/1,000		
LMH6657MFCT-ND	270MHz, Single Supply Amp*	SOT-23-5	2.24	1.73	1.57
LMH6657MFTR-ND	270MHz, Single Supply Amp*	SOT-23-5	928.00/1,000		
LMH6657MGCT-ND	270MHz, Single Supply Amp	SC70-5	2.24	1.73	1.57
LMH6657MGTR-ND	270MHz, Single Supply Amp	SC70-5	928.00/1,000		
LMH6672MA-ND	Dual, High Output Current, High Speed Op Amp*	8-SOIC	2.97	2.39	2.18
LMH6672MR-ND	Dual, High Output Current, High Speed Op Amp*	8-PSOP	2.97	2.39	2.18
LMH6683MA-ND	Triple, 190MHz Single Supply Op Amp*	14-SOIC	3.30	2.66	2.42
LMH6683MT-ND	Triple, 190MHz Single Supply Op Amp	14-TSSOP	3.30	2.66	2.42
LMH6704MA-ND	650MHz Programmable Gain Buffer with Disable*	8-SOIC	3.30	2.66	2.42
LMH6704MFCT-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	3.54	2.90	2.60
LMH6704MFTR-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	1652.00/1,000		
LMH6714MA-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	8-SOIC	2.26	1.83	1.65
LMH6714MFCT-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	SOT-23-5	2.56	1.98	1.79
LMH6714MFTR-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	SOT-23-5	1059.00/1,000		
LMH6715MA-ND	Dual, Wideband Video Op Amp*	8-SOIC	3.06	2.47	2.23
LMH6739MQ-ND	Very Wideband, Low Distortion Triple Video Buffer*	16-SSOP	6.13	4.93	4.49
LMP2011MA-ND	Single High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	2.93	2.37	2.13
LMP2011MFCT-ND	Single High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	3.31	2.56	2.32
LMP2011MFTR-ND	Single High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	1370.00/1,000		
LMP2012MA-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	3.58	2.88	2.63
LMP2012MMCT-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-MSOP	3.84	3.14	2.82
LMP2012MMTR-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-MSOP	1792.00/1,000		
LMP2014MT-ND	Quad, High Precision, Rail-to-Rail Output Op Amp*	14-TSSOP	5.29	4.26	3.88
LMP2015MA-ND	Single, High Precision, R/R Output Op Amp*	8-SOIC	3.07	2.48	2.23
LMP2015MFCT-ND	Single, High Precision, R/R Output Op Amp*	SOT-23-5	3.47	2.68	2.43
LMP2015MFTR-ND	Single, High Precision, R/R Output Op Amp*	SOT-23-5	1436.00/1,000		
LMP2016MA-ND	Dual, High Precision, R/R Output Op Amp*	8-SOIC	3.78	3.04	2.77
LMP2016MMCT-ND	Dual, High Precision, R/R Output Op Amp*	8-MSOP	4.05	3.31	2.97
LMP2016MMTR-ND	Dual, High Precision, R/R Output Op Amp*	8-MSOP	1890.00/1,000		
LMP2021MA-ND	Single Precision, Low Noise Op Amp*	8-SOIC	3.33	2.68	2.44
LMP2021MFECT-ND	Single Precision, Low Noise Op Amp*	SOT-23-5	3.57	2.92	2.62
LMP2021MFETR-ND	Single Precision, Low Noise Op Amp*	SOT-23-5	550.50/250		
LMP2022MA-ND	Dual Precision, Low Noise Op Amp*	8-SOIC	4.40	3.54	3.22
LMP2022MMECT-ND	Dual Precision, Low Noise Op Amp*	8-MSOP	4.71	3.85	3.46
LMP2022MMETR-ND	Dual Precision, Low Noise Op Amp*	8-MSOP	726.25/250		
LMP2231AMA-ND	Single Micropower, Prec. Op Amp, CMOS Input*	8-SOIC	3.72	3.00	2.73
LMP2231AMFCT-ND	Single Micropower, Prec. Op Amp, CMOS Input*	SOT-23-5	3.99	3.26	2.93
LMP2231AMFTR-ND	Single Micropower, Prec. Op Amp, CMOS Input*	SOT-23-5	1862.00/1,000		
LMP2231BMA-ND	Single Micropower, Prec. Op Amp, CMOS Input*	8-SOIC	2.80	2.26	2.04
LMP2231BMFCT-ND	Single Micropower, Prec. Op Amp, CMOS Input*	SOT-23-5	3.16	2.44	2.22
LMP2231BMFTR-ND	Single Micropower, Prec. Op Amp, CMOS Input*	SOT-23-5	1309.00/1,000		
LMP2231BMFECT-ND	Single Micropwr, Prec. Op Amp, CMOS Input* ***NEW!***	SOT-23-5	3.16	2.44	2.22
LMP2231BMFETR-ND	Single Micropwr, Prec. Op Amp, CMOS Input* ***NEW!***	SOT-23-5	451.50/250		
LMP2232AMA-ND	Dual Micropower, Precision Op Amp, CMOS Input*	8-SOIC	5.07	4.08	3.72
LMP2232AMMCT-ND	Dual Micropower, Prec. Op Amp, CMOS Input*	8-MSOP	5.43	4.44	3.99
LMP2232AMMTR-ND	Dual Micropower, Prec. Op Amp, CMOS Input*	8-MSOP	2534.00/1,000		
LMP2232BMA-ND	Dual Micropower, Precision Op Amp, CMOS Input*	8-SOIC	3.72	3.00	2.73
LMP2232BMMCT-ND	Dual Micropower, Prec. Op Amp, CMOS Input*	8-MSOP	3.99	3.26	2.93
LMP2232BMMTR-ND	Dual Micropower, Prec. Op Amp, CMOS Input*	8-MSOP	1862.00/1,000		
LMP2234AMA-ND	Quad MPU, Prec. Op Amp, R/R Output, CMOS Input*	14-SOIC	6.38	5.13	4.68
LMP2234AMT-ND	Quad MPU, Prec. Op Amp, R/R Output, CMOS Input*	14-TSSOP	6.38	5.13	4.68
LMP2234BMA-ND	Quad MPU, Prec. Op Amp, R/R Output, CMOS Input*	14-SOIC	5.12	4.12	3.76
LMP2234BMT-ND	Quad MPU, Prec. Op Amp, R/R Output, CMOS Input*	14-TSSOP	5.12	4.12	3.76
LMP7701MA-ND	Single, CMOS In., R/R I/O Wide Supply Range Amp*	8-SOIC	3.09	2.50	2.25
LMP7701MFCT-ND	Single, CMOS Input, R/R I/O Wide Supply Range Amp*	SOT-23-5	3.49	2.70	2.45
LMP7701MFTR-ND	Single, CMOS Input, R/R I/O Wide Supply Range Amp*	SOT-23-5	1447.00/1,000		
LMP7702MA-ND	Dual, CMOS Input, R/R I/O Wide Supply Range Amp*	8-SOIC	3.72	3.00	2.73
LMP7702MMCT-ND	Dual, CMOS Input, R/R I/O Wide Supply Range Amp*	8-MSOP	3.99	3.26	2.93
LMP7702MMTR-ND	Dual, CMOS Input, R/R I/O Wide Supply Range Amp*	8-MSOP	1862.00/1,000		
LMP7704MA-ND	Quad, CMOS In., R/R I/O Wide Supply Range Amp*	14-SOIC	5.04	4.05	3.69
LMP7704MT-ND	Quad, CMOS Input, R/R I/O Wide Supply Range Amp*	14-TSSOP	5.04	4.05	3.69
LMP7707MA-ND	Single, CMOS Input, R/R I/O Decomp. Amp*	8-SOIC	3.05	2.46	2.24
LMP7707MFCT-ND	Single, CMOS Input, R/R I/O Decompensated Amp*	SOT-23-5	3.27	2.68	2.40

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMP7707MFTR-ND	Single, CMOS Input, R/R I/O Decompensated Amp*	SOT-23-5	1526.00/1,000		
LMP7708MA-ND	Dual, CMOS Input, R/R I/O Decomp. Amp*	8-SOIC	4.12	3.31	3.02
LMP7708MMCT-ND	Dual, CMOS Input, R/R I/O Decompensated Amp*	8-MSOP	4.41	3.61	3.24
LMP7708MMTR-ND	Dual, CMOS Input, R/R I/O Decompensated Amp*	8-MSOP	2058.00/1,000		
LMP7709MA-ND	Quad, CMOS Input, R/R I/O Decomp. Amp*	14-SOIC	6.52	5.25	4.78
LMP7709MT-ND	Quad, CMOS Input, R/R I/O Decompensated Amp*	14-TSSOP	6.52	5.25	4.78
LMP8100AMA-ND	1 to 16V/V Prog. Gain, 33MHz, CMOS In, R/R I/O Amp*	14-SOIC	8.10	6.65	6.00
LMP8100MA-ND	1 to 16V/V Prog. Gain, 33MHz, CMOS In, R/R I/O Amp*	14-SOIC	6.83	5.60	5.06
LMP8601MA-ND	60V, Common Mode Bidirectional Sensing Amp*	8-SOIC	4.12	3.31	3.02
LMP8601QMA-ND	60V, Common Mode Bidirectional Sensing Amp*	8-SOIC	5.21	4.19	3.82
LMP8602MA-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-SOIC	4.12	3.31	3.02
LMP8602MMECT-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-MSOP	4.41	3.61	3.24
LMP8602MMETR-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-MSOP	680.00/250		
LMP8603MA-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-SOIC	4.12	3.31	3.02
LMP8603MMECT-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-MSOP	4.41	3.61	3.24
LMP8603MMETR-ND	60V, Common Mode Bidirectional Sensing Amp* ***NEW!***	8-MSOP	680.00/250		
LMP8645HVMKECT-ND	Precision High Voltage Current Sense Amp* ***NEW!***	6-TSOT	3.29	2.54	2.31
LMP8645HVMKETR-ND	Precision High Voltage Current Sense Amp* ***NEW!***	6-TSOT	470.00/250		
LMP8645MKECT-ND	Precision High Voltage Current Sense Amp* ***NEW!***	6-TSOT	2.96	2.29	2.08
LMP8645MKETR-ND	Precision High Voltage Current Sense Amp* ***NEW!***	6-TSOT	423.00/250		
LMV112SDCT-ND	40MHz Dual Clock Buffer*	8-LLP	1.44	1.14	1.03
LMV112SDTR-ND	40MHz Dual Clock Buffer*	8-LLP	570.00/1,000		
LMV116MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp*	SOT-23-5	1.79	1.41	1.27
LMV116MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp*	SOT-23-5	705.00/1,000		
LMV118MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown*	SOT-23-6	1.93	1.49	1.35
LMV118MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown*	SOT-23-6	798.00/1,000		
LMV301MGCT-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output*	SC70-5	1.03	.81	.73
LMV301MGTR-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output*	SC70-5	405.00/1,000		
LMV321M5CT-ND	Op Amp Low Voltage*	SOT-23-5	.92	.72	.63
LMV321M5TR-ND	Op Amp Low Voltage*	SOT-23-5	336.00/1,000		
LMV321M7CT-ND	Op Amp Low Voltage (2/3 the size of SOT-23)*	SC70-5	.97	.75	.66
LMV321M7TR-ND	Op Amp Low Voltage (2/3 the size of SOT-23)*	SC70-5	352.00/1,000		
LMV324M-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	1.05	.84	.74
LMV324MXCT-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	1.14	.90	.81
LMV324MXTR-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	1050.00/2,500		
LMV324MT-ND	Low Power Quad Op Amp Low Voltage*	14-TSSOP	1.30	1.04	.91
LMV331M5CT-ND	Single General Purpose, Low Volt., TinyPack Comp.*	SOT-23-5	.84	.65	.57
LMV331M5TR-ND	Single General Purpose, Low Volt., TinyPack Comp.*	SOT-23-5	304.00/1,000		
LMV331M5XCT-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5	.84	.65	.57
LMV331M5XTR-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5	828.00/3,000		
LMV331M7TR-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	320.00/1,000		
LMV331M7XCT-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	.88	.68	.60
LMV331M7XTR-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	870.00/3,000		
LMV339M-ND	Quad General Purpose, Low Voltage, TinyPack Comp.	14-SOIC	510.00/1,000		
LMV339MT-ND	Quad General Purpose, Low Voltage, TinyPack Comp.*	14-TSSOP	1.33	1.07	.94
LMV341MGCT-ND	Single, 2.7V, Rail-to-Rail Op Amp*	SC70-6	1.10	.87	.79
LMV341MGTR-ND	Single, 2.7V, Rail-to-Rail Op Amp*	SC70-6	435.00/1,000		
LMV342MA-ND	Dual, 2.7V, Rail-to-Rail, Op Amp*	8-SOIC	1.12	.90	.79
LMV342MMCT-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP	1.25	.99	.90
LMV342MMTR-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP	495.00/1,000		
LMV344MA-ND	Quad, 2.7V, Rail-to-Rail, Op Amp*	14-SOIC	1.26	1.01	.89
LMV344MT/NOPB-ND	Quad, 2.7V, Rail-to-Rail, Op Amp*	14-TSSOP	1.37	1.10	.96
LMV358M-ND	Low Power Dual Op Amp, Low Voltage*	8-SOIC	.91	.73	.64
LMV358MXCT-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	.99	.78	.71
LMV358MXTR-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	910.00/2,500		
LMV358MMCT-ND	Low Power Dual Op Amp, Low Voltage*	8-MSOP	.99	.78	.71
LMV358MMTR-ND	Low Power Dual Op Amp, Low Voltage*	8-MSOP	390.00/1,000		
LMV393M-ND	Dual General Purpose Low Voltage, TinyPack Comp.*.	8-SOIC	.96	.75	.65
LMV393MMCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.*	8-MSOP	1.06	.82	.72
LMV393MMTR-ND	Dual General Purpose Low Voltage, TinyPack Comp.*	8-MSOP	384.00/1,000		
LMV393MMXCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-MSOP	1.06	.82	.72
LMV393MMXTR-ND	General Purpose Low Voltage, TinyPack Comparator	8-MSOP	1218.00/3,500		
LMV551MFCT-ND	Single 3MHz, Micropower RRO Amp* ***NEW!***	SOT-23-5	1.63	1.29	1.16
LMV551MFTR-ND	Single 3MHz, Micropower RRO Amp* ***NEW!***	SOT-23-5	642.00/1,000		
LMV551MGCT-ND	Single 3MHz, Micropower RRO Amp*	SC70-5	1.63	1.29	1.16
LMV551MGTR-ND	Single 3MHz, Micropower RRO Amp*	SC70-5	642.00/1,000		
LMV552MMCT-ND	Dual 3MHz, Micropower RRO Amp*	8-MSOP	1.98	1.53	1.39
LMV552MMTR-ND	Dual 3MHz, Micropower RRO Amp*	8-MSOP	819.00/1,000		
LMV554MT-ND	Quad 3MHz, Micropower RRO Amp*	14-TSSOP	2.34	1.89	1.70
LMV710M5CT-ND	Low Power, R/R, I/O Op Amp with Shutdown Option*	SOT-23-5	1.52	1.20	1.08
LMV710M5TR-ND	Low Power, R/R, I/O Op Amp with Shutdown Option*	SOT-23-5	600.00/1,000		
LMV712LDCT-ND	Low Power, High Output, R/R, I/O Dual Op Amp	10-LLP	2.33	1.80	1.63
LMV712LDTR-ND	Low Power, High Output, R/R, I/O Dual Op Amp	10-LLP	964.00/1,000		
LMV712MMCT-ND	Low Power, High Output, R/R, I/O Dual Op Amp*	10-MSOP	1.88	1.49	1.34
LMV712MMTR-ND	Low Power, High Output, R/R, I/O Dual Op Amp*	10-MSOP	741.00/1,000		
LMV712TLCT-ND	Low Power, High Output, R/R, I/O Dual Op Amp*	10-µSMD	2.03	1.57	1.43
LMV712TLTR-ND	Low Power, High Output, R/R, I/O Dual Op Amp*	10-µSMD	290.00/250		
LMV716MMCT-ND	5MHz, Low Noise, R/R Dual Op Amp*	8-MSOP	1.63	1.29	1.16
LMV716MMTR-ND	5MHz, Low Noise, R/R Dual Op Amp*	8-MSOP	642.00/1,000		
LMV761MA-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-SOIC	1.56	1.26	1.14
LMV761MFCT-ND	Low Voltage Prec. Comparator with Push-Pull Output*	SOT-23-6	1.76	1.37	1.24
LMV761MFTR-ND	Low Voltage Prec. Comparator with Push-Pull Output*	SOT-23-6	731.00/1,000		
LMV762MA-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-SOIC	2.15	1.74	1.57
LMV762MMCT-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-MSOP	2.43	1.88	1.71
LMV762MMTR-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-MSOP	1006.00/1,000		
LMV771MGCT-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp*	SC70-5	1.84	1.46	1.31
LMV771MGTR-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp*	SC70-5	726.00/1,000		
LMV772MA-ND	Dual Low Offset, Low Noise Op Amp*	8-SOIC	1.88	1.52	1.37
LMV772MMCT-ND	Dual Low Offset, Low Noise Op Amp*	8-MSOP	2.13	1.65	1.49
LMV772MMTR-ND	Dual Low Offset, Low Noise Op Amp*	8-MSOP	882.00/1,000		
LMV774MT-ND	Quad Low Offset, Low Noise Op Amp*	14-TSSOP	2.67	2.15	1.94
LMV821M5CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	SOT-23-5	1.48	1.17	1.06
LMV821M5TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	SOT-23-5	585.00/1,000		
LMV821M7CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5	1.52	1.20	1.08
LMV821M7TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5	600.00/1,000		
LMV822M-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1.66	1.33	1.17
LMV822MMCT-ND	Dual Low Volt, 5MHz, Low Pwr., R/R, Output Op Amp*	8-MSOP	1.81	1.43	1.29
LMV822MMTR-ND	Dual Low Volt, 5MHz, Low Pwr., R/R, Output Op Amp*	8-MSOP	713.00/1,000		
LMV822MXCT-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1.81	1.43	1.29
LMV822MXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1662.50/2,500		

* *RoHS Compliant*

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(Continued)

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMV822MMXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-MSOP	2327.50/3,500		
LMV824M-ND	Quad Low Volt, 5MHz, Low Pwr., R/R, Output Op Amp*	14-SOIC	1.55	1.25	1.13
LMV824MT-ND	Quad Low Volt, 5MHz, LP, R/R, Output Op Amp*	14-TSSOP	1.58	1.28	1.15
LMV841MGCT-ND	Single CMOS Input, RRIO Op Amp* ***NEW!***	SC70-5	2.33	1.80	1.63
LMV841MGTR-ND	Single CMOS Input, RRIO Op Amp* ***NEW!***	SC70-5	964.00/1,000		
LMV841QMGCT-ND	Single CMOS Input, RRIO Op Amp* ***NEW!***	SC70-5	2.79	2.16	1.96
LMV841QMGTR-ND	Single CMOS Input, RRIO Op Amp* ***NEW!***	SC70-5	1157.00/1,000		
LMV842MA-ND	Dual CMOS Input, RRIO, Wide Supply Range Op Amp*	8-SOIC	3.05	2.46	2.24
LMV842MMCT-ND	Dual CMOS Input, RRIO, Wide Supply Range Op Amp*	8-MSOP	3.27	2.68	2.40
LMV842MMTR-ND	Dual CMOS Input, RRIO, Wide Supply Range Op Amp*	8-MSOP	1526.00/1,000		
LMV842QMMCT-ND	Dual CMOS Input, RRIO, Wide Supply Range Op Amp* ***NEW!***	8-MSOP	3.93	3.21	2.89
LMV842QMMTR-ND	Dual CMOS Input, RRIO, Wide Supply Range Op Amp* ***NEW!***	8-MSOP	1834.00/1,000		
LMV844MA-ND	Quad CMOS Input, RRIO, Wide Supply Range Op Amp*	14-SOIC	5.07	4.08	3.72
LMV844MT-ND	Quad CMOS Input, RRIO, Wide Supply Range Op Amp*	14-TSSOP	5.07	4.08	3.72
LMV844QMA-ND	Quad CMOS Input, RRIO, Wide Supply Range Op Amp* ***NEW!***	14-SOIC	6.08	4.89	4.45
LMV931MFCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SOT-23-5	1.52	1.20	1.08
LMV931MFTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SOT-23-5	600.00/1,000		
LMV931MGCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SC70-5	1.52	1.20	1.08
LMV931MGTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SC70-5	600.00/1,000		
LMV932MA-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-SOIC	1.55	1.25	1.13
LMV932MMCT-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-MSOP	1.75	1.35	1.23
LMV932MMTR-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-MSOP	725.00/1,000		
LMV934MA-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp*	14-SOIC	1.86	1.50	1.35
LMV934MT-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp*	14-TSSOP	1.86	1.50	1.35
LMV951MKCT-ND	1V Rail-to-Rail, In/Out, Op Amp with Shutdown*	TSOT-23-6	1.88	1.49	1.34
LMV951MKTR-ND	1V Rail-to-Rail, In/Out, Op Amp with Shutdown*	TSOT-23-6	741.00/1,000		
LMV981MFCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SOT-23-6	1.37	1.09	.98
LMV981MFTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SOT-23-6	542.00/1,000		
LMV981MGCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SC70-6	1.37	1.09	.98
LMV981MGTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SC70-6	542.00/1,000		
LMV981TLCT-ND	Single 1.8V R/R, In/Out, Op Amp with Shutdown*	6-µSMD	1.66	1.29	1.17
LMV981TLTR-ND	Single 1.8V R/R, In/Out, Op Amp with Shutdown*	6-µSMD	237.50/250		
LMV982MMCT-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP	1.75	1.35	1.23
LMV982MMTR-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP	725.00/1,000		
LMV2011MA-ND	High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	2.80	2.26	2.04
LMV2011MFCT-ND	High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	3.16	2.44	2.22
LMV2011MFTR-ND	High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	1309.00/1,000		
LP324M-ND	Micropower Quad Op Amp*	14-SOIC	1.16	.93	.81
LP324MT-ND	Micropower Quad Op Amp*	14-TSSOP	1.47	1.18	1.03
LP324MXCT-ND	Micropower Quad Op Amp*	14-SOIC	1.25	.99	.90
LP324MXTR-ND	Micropower Quad Op Amp*	14-SOIC	1155.00/2,500		
LP339M-ND	Ultra-Low Power Quad Comparator*	14-SOIC	1.12	.90	.79
LP339MXCT-ND	Ultra-Low Power Quad Comparator	14-SOIC	1.22	.96	.87
LP339MXTR-ND	Ultra-Low Power Quad Comparator	14-SOIC	1120.00/2,500		
LP339NNS-ND	Ultra-Low Power Quad Comparator*	14-Dip	1.19	.96	.84
LP395Z-ND	Ultra Reliable Power Transistor*	TO-92-3	1.76	1.42	1.28
LP2902M-ND	Micropower Quad Operational Amplifier*	14-SOIC	1.61	1.29	1.13
LPC660AIM-ND	Low Power Quad CMOS Op Amp, A Grade*	14-SOIC	3.42	2.75	2.51
LPC660IM-ND	Low Power Quad CMOS Op Amp	14-SOIC	2.98	2.40	2.16
LPC661IM-ND	Low Power CMOS Op Amp*	8-SOIC	2.08	1.68	1.51
LPC662AIM-ND	Low Power Dual CMOS Op Amp, A Grade*	8-SOIC	2.86	2.30	2.10
LPC662IM-ND	Low Power Quad CMOS Op Amp	8-SOIC	2.48	2.00	1.80
LPV321M5CT-ND	Single General Purpose Low Volt, LP, R/R Out*	SOT-23-5	1.10	.87	.79
LPV321M5TR-ND	Single General Purpose Low Volt, LP, R/R Out*	SOT-23-5	435.00/1,000		
LPV321M7CT-ND	Single General Purpose Low Volt, LP, R/R Out*	SC70-5	1.10	.87	.79
LPV321M7TR-ND	Single General Purpose Low Volt, LP, R/R Out*	SC70-5	435.00/1,000		
LPV324M-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp*	14-SOIC	1.47	1.18	1.03
LPV324MT-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp*	14-TSSOP	1.47	1.18	1.03
LPV358M/NOPB-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp*	8-SOIC	1.16	.93	.81
LPV358MMCT-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	1.25	.99	.90
LPV358MMTR-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	495.00/1,000		
PowerWise®					
LM6211MFCT-ND	Low Noise, Rail-to-Rail Out Op Amp*	SOT-23-5	3.09	2.53	2.27
LM6211MFTR-ND	Low Noise, Rail-to-Rail Out Op Amp*	SOT-23-5	1442.00/1,000		
LM6511IM-ND	180nS, 3V, Comparator*	8-SOIC	2.62	2.11	1.92
LM6588MA-ND	TFT-LCD Quad, 16V RRIO High Output Current*	14-SOIC	3.05	2.46	2.24
LM6588MT-ND	TFT-LCD Quad, 16V RRIO High Output Current*	14-TSSOP	3.05	2.46	2.24
LM7121IM-ND	235MHz Tiny Low Power Voltage Feedback Amp*	8-SOIC	3.01	2.43	2.19
LM7121IM5CT-ND	235MHz Tiny Low Power Voltage Feedback Amp*	SOT-23-5	3.40	2.62	2.38
LM7121IM5TR-ND	235MHz Tiny Low Power Voltage Feedback Amp*	SOT-23-5	1407.00/1,000		
LM7171AIM-ND	Very HS High Out Volt. Feedback Amp, A Grade*	8-SOIC	3.58	2.88	2.63
LM7171BIM-ND	Very High Speed High Out Voltage Feedback Amp*	8-SOIC	2.83	2.28	2.08
LM7171BIMXTR-ND	Very High Speed High Out Voltage Feedback Amp*	8-SOIC	3357.50/2,500		
LM7171BIN-ND	Very High Speed High Out Voltage Feedback Amp*	8-Dip	2.83	2.28	2.08
LM7301IM-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	8-SOIC	2.47	2.00	1.80
LM7301IM5CT-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	SOT-23-5	2.79	2.16	1.96
LM7301IM5TR-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	SOT-23-5	1157.00/1,000		
LM7321MA-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	8-SOIC	2.51	2.03	1.83
LM7321MFCT-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	SOT-23-5	2.84	2.19	1.99
LM7321MFTR-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	SOT-23-5	1175.00/1,000		
LM7322MA-ND	RRIO, High Output, Unlimited Cap Load*	8-SOIC	3.05	2.46	2.24
LM7322MMCT-ND	RRIO, High Output, Unlimited Cap Load*	8-MSOP	3.27	2.68	2.40
LM7322MMTR-ND	RRIO, High Output, Unlimited Cap Load*	8-MSOP	1526.00/1,000		
LM7341MFCT-ND	4.6MHz Rail-to-Rail I/O Op Amp*	SOT-23-5	2.99	2.31	2.10
LM7341MFTR-ND	4.6MHz Rail-to-Rail I/O Op Amp*	SOT-23-5	1240.00/1,000		
LM7372IMA-ND	Dual High Speed, High Output Current Op Amp*	16-SOIC	5.26	4.23	3.86
LM7372MR-ND	Dual High Speed, High Output Current Op Amp*	8-PSOP	5.26	4.23	3.86
LM8261M5CT-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	SOT-23-5	3.19	2.46	2.23
LM8261M5TR-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	SOT-23-5	1320.00/1,000		
LM8262MMCT-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	8-MSOP	3.46	2.67	2.43
LM8262MMTR-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	8-MSOP	1433.00/1,000		
LM8272MMCT-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	8-MSOP	3.72	3.04	2.73
LM8272MMTR-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	8-MSOP	1736.00/1,000		
LM13700N-ND	Dual Operational Transconductance Amp*	16-Dip	2.52	2.04	1.83
LME49710HA-ND	High Performance, High Fidelity Audio Op Amp*	TO-99-8	11.00	9.25	8.50
LME49710MA-ND	High Performance, High Fidelity Audio Op Amp*	8-SOIC	2.45	1.98	1.78
LME49710NA-ND	High Performance, High Fidelity Audio Op Amp*	8-Dip	2.45	1.98	1.78
LME49713MA-ND	High Performance, High Fidelity Audio Op Amp*	8-SOIC	5.74	4.62	4.21
LME49720HA-ND	Dual High Performance High Fidelity Audio Op Amp*	TO-99-8	20.90	17.58	16.15
LME49720MA-ND	Dual High Performance High Fidelity Audio Op Amp*	8-SOIC	3.08	2.48	2.26
LME49720NA-ND	Dual High Performance High Fidelity Audio Op Amp*	8-DIP	3.08	2.48	2.26
LME49721MA-ND	High Perf., High Fidelity R/R In/Out Audio Op Amp*	8-SOIC	4.75	3.90	3.52
LME49725MA-ND	Dual High Performance Audio Op Amp*	8-SOIC	3.00	2.41	2.20
LME49740MA-ND	Quad High Performance High Fidelity Op Amp*	14-SOIC	4.75	3.90	3.52

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LME49740NA-ND	Quad High Performance High Fidelity Op Amp*	14-Dip	4.75	3.90	3.52
LM48310SDCT-ND	2.6W, Mono Class D Audio Power Amp*	10-LLP	2.84	2.19	1.99
LM48310SDTR-ND	Ultra-Low EMI, 2.6W, Mono, Class D Audio Pwr. Amp*	10-LLP	1175.00/1,000		
LM48311TLCT-ND	Ultra-Low EMI, 2.6W, Mono, Class D Audio Pwr. Amp* ***NEW!***	9-µSMD	1.83	1.41	1.28
LM48311TLTR-ND	Ultra-Low EMI, 2.6W, Mono, Class D Audio Pwr. Amp* ***NEW!***	9-µSMD	261.00/250		
LMH6514SQECT-ND	600MHz, Digital, Variable Gain Amp*	16-LLP	10.70	8.78	7.92
LMH6514SQETR-ND	600MHz, Digital, Variable Gain Amp*	16-LLP	1819.00/250		
LMH6518SQECT-ND	900MHz, Digital, Variable Gain Amp*	16-LLP	15.30	12.97	11.97
LMH6518SQETR-ND	900MHz, Digital, Variable Gain Amp*	16-LLP	2577.00/250		
LMH6550MA-ND	Differential, High Speed Op Amp	8-SOIC	5.99	4.82	4.39
LMH6550MMCT-ND	Differential, High Speed Op Amp*	8-MSOP	6.42	5.25	4.71
LMH6550MMTR-ND	Differential, High Speed Op Amp*	8-MSOP	2996.00/1,000		
LMH6551MA-ND	Differential, High Speed Op Amp*	8-SOIC	3.98	3.20	2.92
LMH6551MMCT-ND	Differential, High Speed Op Amp	8-MSOP	4.26	3.48	3.13
LMH6551MMTR-ND	Differential, High Speed Op Amp	8-MSOP	1988.00/1,000		
LMH6552MA-ND	1GHz Fully Differential Amplifier*	8-SOIC	9.25	7.59	6.85
LMH6553MR-ND	900MHz Fully Diff. Amp w/Output Limiting Clamp*	8-PSOP	7.85	6.44	5.81
LMH6553SDECT-ND	900MHz Fully Diff. Amp w/Output Limiting Clamp*	8-LLP	8.32	6.91	6.28
LMH6553SDETR-ND	900MHz Fully Diff. Amp w/Output Limiting Clamp*	8-LLP	1334.50/250		
LMH6555SQCT-ND	Differential Driver, 1.2GHz High Speed*	16-LLP	12.44	10.55	9.74
LMH6555SQTR-ND	Differential Driver, 1.2GHz High Speed*	16-LLP	7195.00/1,000		
LMH6612MA-ND	345MHz Rail-to-Rail Output Op Amp*	8-SOIC	5.26	4.23	3.86
LMH6618MKCT-ND	Single 130MHz, 1.25mA RRIO Op Amp*	TSOT-23-6	3.39	2.77	2.49
LMH6618MKTR-ND	Single 130MHz, 1.25mA RRIO Op Amp*	TSOT-23-6	1582.00/1,000		
LMH6619MA-ND	Dual 130MHz Rail-to-Rail In/Out Op Amp*	8-SOIC	4.76	3.83	3.49
LMH6622MA-ND	Dual Wideband, Low Noise, 160MHz Op Amp*	8-SOIC	3.98	3.20	2.92
LMH6622MMCT-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	4.26	3.48	3.13
LMH6622MMTR-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	1988.00/1,000		
LMH6624MA-ND	Single Wideband, Ultra Low Noise Op Amp*	8-SOIC	4.96	3.99	3.63
LMH6624MFCT-ND	Single Wideband, Ultra Low Noise Op Amp*	SOT-23-5	5.31	4.34	3.90
LMH6624MFTR-ND	Single Wideband, Ultra Low Noise Op Amp*	SOT-23-5	2478.00/1,000		
LMH6626MA-ND	Dual Wideband, Ultra Low Noise Op Amp*	8-SOIC	5.46	4.39	4.00
LMH6626MMCT-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	5.85	4.78	4.29
LMH6626MMTR-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	2730.00/1,000		
LMH6628MA-ND	Dual Wideband, Low Noise, Voltage Feedback Op Amp*	8-SOIC	3.98	3.20	2.92
LMH6639MA-ND	190MHz Rail-to-Rail Output Amp with Disable*	8-SOIC	1.86	1.50	1.35
LMH6639MFCT-ND	190MHz Rail-to-Rail Output Amp with Disable*	SOT-23-6	2.10	1.62	1.47
LMH6639MFTR-ND	190MHz Rail-to-Rail Output Amp with Disable*	SOT-23-6	870.00/1,000		
LMH6642MA-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	8-SOIC	1.86	1.50	1.35
LMH6642MFCT-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	SOT-23-5	2.10	1.62	1.47
LMH6642MFTR-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	SOT-23-5	870.00/1,000		
LMH6643MA-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-SOIC	2.33	1.88	1.69
LMH6643MMCT-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-MSOP	2.63	2.03	1.84
LMH6643MMTR-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-MSOP	1088.00/1,000		
LMH6644MA-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp*	14-SOIC	3.47	2.79	2.55
LMH6644MT-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp*	14-TSSOP	3.47	2.79	2.55
LMH6645MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.08	1.68	1.51
LMH6645MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-5	2.35	1.81	1.65
LMH6645MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-5	972.00/1,000		
LMH6646MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-SOIC	3.08	2.49	2.24
LMH6646MMCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-MSOP	3.48	2.69	2.44
LMH6646MMTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-MSOP	1440.00/1,000		
LMH6647MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-SOIC	1.89	1.53	1.38
LMH6647MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-6	1.94	1.50	1.36
LMH6647MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-6	802.00/1,000		
LMH6654MA-ND	Single, Low Power, 250MHz, Low Noise Amp*	8-SOIC	2.51	2.03	1.83
LMH6654MFCT-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	2.84	2.19	1.99
LMH6654MFTR-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	1175.00/1,000		
LMH6655MA-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-SOIC	3.42	2.75	2.51
LMH6655MMCT-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-MSOP	3.66	2.99	2.69
LMH6655MMTR-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-MSOP	1708.00/1,000		
LMH6658MA-ND	270MHz, Dual, High Speed, Low Noise Op Amp*	8-SOIC	2.77	2.24	2.01
LMH6702MA-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	8-SOIC	3.86	3.11	2.83
LMH6702MFCT-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	SOT-23-5	4.14	3.39	3.04
LMH6702MFTR-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	SOT-23-5	1932.00/1,000		
LMH6703MA-ND	1.2GHz, Low Distortion Op Amp*	8-SOIC	3.61	2.91	2.65
LMH6703MFCT-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	3.87	3.17	2.84
LMH6703MFTR-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	1806.00/1,000		
LMH6720MA-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	8-SOIC	2.47	2.00	1.80
LMH6720MFCT-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	SOT-23-6	2.79	2.16	1.96
LMH6720MFTR-ND	Single, 400MHz, Wideband Video Op Amp, Shutdown*	SOT-23-6	1157.00/1,000		
LMH6722MA-ND	Quad, Wideband Video Op Amp*	14-SOIC	3.95	3.18	2.90
LMH6722MT-ND	Quad, Wideband Video Op Amp*	14-TSSOP	3.95	3.18	2.90
LMH6722QSDCT-ND	Quad, Wideband Video Op Amp* ***NEW!***	14-LLP	6.54	5.35	4.80
LMH6722QSDTR-ND	Quad, Wideband Video Op Amp* ***NEW!***	14-LLP	3052.00/1,000		
LMH6722SDCT-ND	Quad, Wideband Video Op Amp* ***NEW!***	14-LLP	6.54	5.35	4.80
LMH6722SDTR-ND	Quad, Wideband Video Op Amp* ***NEW!***	14-LLP	3052.00/1,000		
LMH6723MA-ND	370MHz, 1mA Current Feedback Op Amp*	8-SOIC	2.33	1.88	1.69
LMH6723MFCT-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	2.63	2.03	1.84
LMH6723MFTR-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	1088.00/1,000		
LMH6724MA-ND	Dual, 370MHz, 1mA Current Feedback Op Amp*	8-SOIC	3.09	2.50	2.25
LMH6732MA-ND	High Speed Op Amp with Adj. Bandwidth*	8-SOIC	6.78	5.56	5.02
LMH6732MFCT-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	7.18	5.97	5.42
LMH6732MFTR-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	3659.00/1,000		
LMH6733MQ-ND	Single Supply, 1.0GHz, Triple Op Amp*	16-TSSOP	6.92	5.56	5.07
LMH6738MQ-ND	Very Wideband, Low Distortion Triple Op Amp*	16-SSOP	6.44	5.18	4.72
LMH7220MGCT-ND	High Speed Comparator with LVDS Output*	SC70-6	6.09	4.98	4.47
LMH7220MGTR-ND	High Speed Comparator with LVDS Output*	SC70-6	2842.00/1,000		
LMH7220MKCT-ND	High Speed Comparator with LVDS Output*	TSOT-23-6	6.09	4.98	4.47
LMH7220MKTR-ND	High Speed Comparator with LVDS Output*	TSOT-23-6	2842.00/1,000		
LMH7322SQCT-ND	Dual 700 ps High Speed Comparator*	24-LLP	8.56	7.11	6.46
LMH7322SQTR-ND	Dual 700 ps High Speed Comparator*	24-LLP	4361.00/1,000		
LMH7324SQCT-ND	Quad 700 ps High Speed Comparator*	32-LLP	13.09	10.87	9.88
LMH7324SQTR-ND	Quad 700 ps High Speed Comparator*	32-LLP	6669.00/1,000		
LMP7300MA-ND	Precision Comparator with Reference*	8-SOIC	2.93	2.37	2.13
LMP7300MMECT-ND	Precision Comparator with Reference* ***NEW!***	8-MSOP	3.29	2.54	2.31
LMP7300MMETR-ND	Precision Comparator with Reference* ***NEW!***	8-MSOP	470.00/250		
LMP7711MKCT-ND	Single Precision, 17MHz, LN CMOS Input Amp*	TSOT-23-6	2.66	2.06	1.87
LMP7711MKTR-ND	Single Precision, 17MHz, LN CMOS Input Amp*	TSOT-23-6	1102.00/1,000		
LMP7712MMCT-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp*	10-MSOP	3.72	3.04	2.73
LMP7712MMTR-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp*	10-MSOP	1736.00/1,000		
LMP7715MFCT-ND	Single Precision, 17MHz, Low Noise, CMOS Input*	SOT23-5	2.66	2.06	1.87
LMP7715MFTR-ND	Single Precision, 17MHz, Low Noise, CMOS Input*	SOT23-5	1102.00/1,000		
LMP7716MMCT-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp*	8-MSOP	3.27	2.68	2.40
LMP7716MMTR-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp*	8-MSOP	1526.00/1,000		

* *RoHS Compliant*

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(Continued)

National Semiconductor DigiReel® (Cont.) AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMP7716QMMECT-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp* ***NEW!***	8-MSOP	4.14	3.39	3.04
LMP7716QMMETR-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp* ***NEW!***	8-MSOP	638.25/250		
LMP7717MA-ND	88MHz, 1.8V CMOS Input Decompensated Op Amp*	8-SOIC	2.50	2.02	1.82
LMP7717MFCT-ND	88MHz, 1.8V CMOS Input Decompensated Op Amp*	SOT-23-5	2.82	2.18	1.98
LMP7717MFTR-ND	88MHz, 1.8V CMOS Input Decompensated Op Amp*	SOT-23-5	1170.00/1,000		
LMP7718MMCT-ND	88MHz, 1.8V CMOS In Decomp. Op Amp*	8-MSOP	3.57	2.92	2.62
LMP7718MMTR-ND	88MHz, 1.8V CMOS In Decomp. Op Amp*	8-MSOP	1666.00/1,000		
LMP7721MA-ND	3A Input Bias Current Precision Amplifier*	8-SOIC	11.75	9.64	8.70
LMP7731MA-ND	Single, 22MHz, Low Noise, CMOS Input Amp *	8-SOIC	3.05	2.46	2.24
LMP7731MFCT-ND	Low Noise, Precision, RRIO Op Amp*	SOT-23-5	3.27	2.68	2.40
LMP7731MFTR-ND	Low Noise, Precision, RRIO Op Amp*	SOT-23-5	1526.00/1,000		
LMP7732MA-ND	Dual Low Noise, Precision, RRIO Op Amp*	8-SOIC	4.79	3.85	3.51
LMP7732MMECT-ND	Dual Low Noise, Precision, RRIO Op Amp*	8-MSOP	5.13	4.19	3.77
LMP7732MMETR-ND	Dual Low Noise, Precision, RRIO Op Amp*	8-MSOP	791.00/250		
LMV641MA-ND	10MHz, 12V, Low Power Amp*	8-SOIC	1.83	1.48	1.33
LMV641MGECT-ND	10MHz, 12V, Low Power Amp*	SC70-5	2.06	1.60	1.45
LMV641MGETR-ND	10MHz, 12V, Low Power Amp*	SC70-5	294.50/250		
LMV651MFCT-ND	12MHz, Low Voltage, Low Power Amp* ***NEW!***	SOT-23-5	1.63	1.29	1.16
LMV651MFTR-ND	12MHz, Low Voltage, Low Power Amp* ***NEW!***	SOT-23-5	642.00/1,000		
LMV651MGCT-ND	12MHz, Low Voltage, Low Power Op Amp*	SC70-5	1.63	1.29	1.16
LMV651MGTR-ND	12MHz, Low Voltage, Low Power Op Amp*	SC70-5	642.00/1,000		
LMV652MMCT-ND	12MHz, Low Voltage, Low Power Amplifier*	8-MSOP	1.98	1.53	1.39
LMV652MMTR-ND	12MHz, Low Voltage, Low Power Amplifier*	8-MSOP	819.00/1,000		
LMV654MT-ND	12MHz, Low Voltage, Low Power Amplifier*	14-TSSOP	2.82	2.28	2.05
LMV721M5CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SOT-23-5	1.75	1.38	1.25
LMV721M5TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SOT-23-5	690.00/1,000		
LMV721M7CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SC70-5	1.75	1.38	1.25
LMV721M7TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SC70-5	690.00/1,000		
LMV722M-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-SOIC	1.80	1.45	1.31
LMV722MMCT-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-MSOP	2.03	1.57	1.43
LMV722MMTR-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-MSOP	841.00/1,000		
LMV751M5CT-ND	Low Noise, Low Voltage, Single Op Amp*	SOT-23-5	2.36	1.82	1.66
LMV751M5TR-ND	Low Noise, Low Voltage, Single Op Amp*	SOT-23-5	977.00/1,000		
LMV791MKCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6	1.81	1.43	1.29
LMV791MKTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6	713.00/1,000		
LMV792MMCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	10-MSOP	2.23	1.72	1.57
LMV792MMTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	10-MSOP	924.00/1,000		
LMV793MA-ND	88MHz, 1.8V CMOS Input, Decompensated Op Amp*	8-SOIC	1.92	1.55	1.40
LMV793MFCT-ND	88MHz, 1.8V CMOS Input, Decompensated Op Amp*	SOT-23-5	2.16	1.67	1.52
LMV793MFTR-ND	88MHz, 1.8V CMOS Input, Decompensated Op Amp*	SOT-23-5	896.00/1,000		
LMV794MA-ND	Dual 88MHz, 1.8V CMOS Input, Decompensated*	8-SOIC	2.65	2.14	1.93
LMV794MMCT-ND	Dual 88MHz, 1.8V CMOS In, Decompensated Op Amp*	8-MSOP	2.99	2.31	2.10
LMV794MMTR-ND	Dual 88MHz, 1.8V CMOS In, Decompensated Op Amp*	8-MSOP	1240.00/1,000		
LMV796MFCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	SOT-23-5	1.63	1.29	1.16
LMV796MFTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	SOT-23-5	642.00/1,000		
LMV797MMCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	8-MSOP	2.10	1.62	1.47
LMV797MMTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	8-MSOP	869.00/1,000		
LMV831MGECT-ND	Single Low Power CMOS Input Op Amp*	SC70-5	1.83	1.41	1.28
LMV831MGETR-ND	Single Low Power CMOS Input Op Amp*	SC70-5	261.00/250		
LMV832MMECT-ND	Dual Low Power CMOS Input Op Amp*	8-MSOP	2.63	2.03	1.84
LMV832MMETR-ND	Dual Low Power CMOS Input Op Amp*	8-MSOP	375.00/250		
LMV834MT-ND	Quad Low Power CMOS Input Op Amp*	14-TSSOP	2.91	2.34	2.14
LMV842QMA-ND	Dual Low Power CMOS Input Op Amp* ***NEW!***	8-SOIC	3.67	2.95	2.69
LMV851MGCT-ND	8MHz Low Power CMOS, EMI Hardened Op Amp*	SC70-5	2.10	1.62	1.47
LMV851MGTR-ND	8MHz Low Power CMOS, EMI Hardened Op Amp*	SC70-5	869.00/1,000		
LMV852MMCT-ND	Dual 8MHz Low Power CMOS, EMI Hardened Op Amp*	8-MSOP	2.99	2.31	2.10
LMV852MMTR-ND	Dual 8MHz Low Power CMOS, EMI Hardened Op Amp*	8-MSOP	1240.00/1,000		
LMV854MT-ND	Quad 8MHz LP CMOS, EMI Hardened Op Amp*	14-TSSOP	3.19	2.57	2.34
LMV861MGCT-ND	30MHz Single LP CMOS, EMI Hardened Op Amp*	SC70-5	2.23	1.72	1.57
LMV861MGTR-ND	30MHz Single LP CMOS, EMI Hardened Op Amp*	SC70-5	924.00/1,000		
LMV862MMCT-ND	30MHz Dual LP CMOS, EMI Hardened Op Amp*	8-MSOP	3.16	2.44	2.22
LMV862MMTR-ND	30MHz Dual LP CMOS, EMI Hardened Op Amp*	8-MSOP	1309.00/1,000		
LMV1089RLCT-ND	Dual Microphone Amp* ***NEW!***	36-µSMD	13.80	11.70	10.80
LMV1089RLTR-ND	Dual Microphone Amp* ***NEW!***	36-µSMD	2325.00/250		
LMV1089VY-ND	Dual Microphone Amp* ***NEW!***	32-LQFP	13.20	11.10	10.20
LMV1090TLCT-ND	Dual Input Microphone Amp* ***NEW!***	16-µSMD	10.04	8.34	7.58
LMV1090TLTR-ND	Dual Input Microphone Amp* ***NEW!***	16-µSMD	1610.75/250		
LMV1090TLEVAL-ND	Evaluation Board for LMV1090T* ***NEW!***	—	160.00	—	—
LMV7219M5CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SOT-23-5	3.13	2.42	2.19
LMV7219M5TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SOT-23-5	1295.00/1,000		
LMV7219M7CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SC70-5	3.13	2.42	2.19
LMV7219M7TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SC70-5	1295.00/1,000		
LMV7235M5CT-ND	Ultra LP Comp., R/R In, Open Drain/Push-Pull Outut*	SOT-23-5	2.06	1.60	1.45
LMV7235M5TR-ND	Ultra LP Comp., R/R In, Open Drain/Push-Pull Ouput*	SOT-23-5	854.00/1,000		
LMV7235M7CT-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SC70-5	2.06	1.60	1.45
LMV7235M7TR-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SC70-5	854.00/1,000		
LMV7239M5CT-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SOT-23-5	2.39	1.85	1.68
LMV7239M5TR-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SOT-23-5	992.00/1,000		
LMV7239M7CT-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SC70-5	2.39	1.85	1.68
LMV7239M7TR-ND	Ultra LP Comp., R/R Input, Open Drain/Push-Pull Out*	SC70-5	992.00/1,000		
LMV7271MFCT-ND	Single, 1.8V Low Power Comparator with R/R Input*	SOT-23-5	1.52	1.20	1.08
LMV7271MFTR-ND	Single, 1.8V Low Power Comparator with R/R Input*	SOT-23-5	600.00/1,000		
LMV7271MGCT-ND	Single, 1.8V Low Power Comparator with R/R Input*	SC70-5	1.52	1.20	1.08
LMV7271MGTR-ND	Single, 1.8V Low Power Comparator with R/R Input*	SC70-5	600.00/1,000		
LMV7272TLCT-ND	Dual, 1.8V Low Power Comparator with R/R Input*	8-µSMD	2.00	1.54	1.40
LMV7272TLTR-ND	Dual, 1.8V Low Power Comparator with R/R Input*	8-µSMD	285.00/250		
LMV7275MFCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SOT-23-5	1.56	1.23	1.11
LMV7275MFTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SOT-23-5	615.00/1,000		
LMV7275MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	1.56	1.23	1.11
LMV7275MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	615.00/1,000		
LMV7291MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	1.52	1.20	1.08
LMV7291MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	600.00/1,000		
LPV511MGCT-ND	880nA, R/R Input and Output Op Amp*	SC70-5	1.63	1.29	1.16
LPV511MGTR-ND	880nA, R/R Input and Output Op Amp*	SC70-5	642.00/1,000		
LPV521MGECT-ND	400nA, 1.8V Nanopower, RRIO Op Amp* ***NEW!***	SC70-5	2.16	1.67	1.52
LPV521MGETR-ND	400nA, 1.8V Nanopower, RRIO Op Amp* ***NEW!***	SC70-5	309.00/250		
LPV531MKCT-ND	Prog. Micropower CMOS Input, R/R Output Op Amp*	TSOT-23-6	1.63	1.29	1.16
LPV531MKTR-ND	Prog. Micropower CMOS Input, R/R Output Op Amp*	TSOT-23-6	642.00/1,000		
LPV7215MFCT-ND	1.8V Micropwr Comp., CMOS In, R/R Push-Pull Out*	SOT-23-5	1.77	1.40	1.26
LPV7215MFTR-ND	1.8V Micropwr Comp., CMOS In, R/R Push-Pull Out*	SOT-23-5	699.00/1,000		
LPV7215MGCT-ND	MPU, CMOS Input, R/R Push-Pull Output Comparator*	SC70-5	1.77	1.40	1.26
LPV7215MGTR-ND	MPU, CMOS Input, R/R Push-Pull Output Comparator*	SC70-5	699.00/1,000		
TL082CM/NOPB-ND	Wide Bandwidth Dual JFET Input Op Amp*	8-SOIC	1.39	1.12	.98
TL082CMXTR-ND	Wide Bandwidth Dual JFET Input Op Amp*	8-SOIC	1392.50/2,500		
TL082CPNS-ND	Bi-FET Dual Op Amp*	8-Dip	1.82	1.46	1.28

National Semiconductor DigiReel® AUDIO

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM380N-ND	2.5W Audio Power Amplifier*	14-Dip	1.79	1.43	1.25
LM380N-8-ND	2.5W Audio Amplifier*	8-Dip	1.60	1.28	1.12
LM384N-ND	5.5W Audio Amplifier*	14-Dip	1.74	1.40	1.26
LM386M-1-ND	.325W Low Voltage Audio Power Amp*	8-SOIC	1.02	.82	.72
LM386N-1-ND	.325W Low Voltage Audio Power Amp, Vs=6V*	8-Dip	1.04	.83	.73
LM386N-3-ND	0.7W Low Voltage Audio Power Amp, Vs=9V*	8-Dip	.95	.76	.67
LM386N-4-ND	1W Low Voltage Audio Power Amp, Vs=16V*	8-Dip	.95	.76	.67
LM1036M-ND	Tone/Volume/Balance Circuit*	20-SOIC	3.01	2.43	2.19
LM1036N-ND	Dual DC Operational Tone/Volume/Balance Circuit*	20-Dip	3.01	2.43	2.19
LM1877M-9-ND	2W Dual Audio Power Amp*	14-SOIC	1.76	1.42	1.28
LM1949N-ND	476Kbytes, Injector Drive Controller*	8-Dip	4.87	3.92	3.57
LM1971M-ND	1-Channel 62dB Audio Attenuator with Mute* ***NEW!***	8-SOIC	3.04	2.45	2.21
LM1972M-ND	2-Channel 78dB Audio Attenuator with Mute*	20-SOIC	4.76	3.83	3.49
LM1973M-ND	MicroPot™ 3-Ch. 76dB Audio Attenuator with Mute*	20-SOIC	2506.00/1,000		
LM4562HA-ND	Dual High Performance, High Fidelity Audio Op Amp*	TO-99-8	19.36	16.28	14.96
LM4562NA-ND	Dual High Performance, High Fidelity Audio Op Amp*	8-Dip	3.05	2.46	2.24
LM4562MA-ND	Dual High Performance, High Fidelity Audio Op Amp*	8-SOIC	3.05	2.46	2.24
LM4665ITLCT-ND	Filterless High Efficiency 1.4W Switching Audio Amp*	9-µSMD	3.40	2.62	2.38
LM4665ITLTR-ND	Filterless High Efficiency 1.4W Switching Audio Amp*	9-µSMD	485.00/250		
LM4666SDCT-ND	1.2W Switching Audio Amp	14-LLP	2.45	1.89	1.72
LM4666SDTR-ND	1.2W Switching Audio Amp	14-LLP	1015.00/1,000		
LM4667ITLCT-ND	1.3W Switching Audio Amp*	9-µSMD	1.86	1.47	1.33
LM4667ITLTR-ND	1.3W Switching Audio Amp*	9-µSMD	263.50/250		
LM4667MMCT-ND	1.3W Switching Audio Amp*	10-MSOP	1.79	1.41	1.27
LM4673SDCT-ND	2.65W Class D Audio Power Amp*	8-LLP	1.82	1.41	1.28
LM4673SDTR-ND	2.65W Class D Audio Power Amp*	8-LLP	754.00/1,000		
LM4673TMCT-ND	2.65W Class D Audio Power Amp*	9-µSMD	1.82	1.41	1.28
LM4673TMTR-ND	2.65W Class D Audio Power Amp*	9-µSMD	260.00/250		
LM4674ATLCT-ND	Filterless 2.5W Stereo Class D Audio Power Amp*	16-µSMD	2.43	1.88	1.70
LM4674ATLTR-ND	Filterless 2.5W Stereo Class D Audio Power Amp*	16-µSMD	346.50/250		
LM4674SQCT-ND	2.5W Stereo Class D Audio Power Amp*	16-LLP	3.08	2.38	2.16
LM4674SQTR-ND	2.5W Stereo Class D Audio Power Amp*	16-LLP	1276.00/1,000		
LM4674TLCT-ND	2.5W Stereo Class D Audio Power Amp*	16-µSMD	2.21	1.71	1.55
LM4674TLTR-ND	2.5W Stereo Class D Audio Power Amp*	16-µSMD	315.00/250		
LM4675SDCT-ND	2.65W Class D Audio Power Amp*	8-LLP	2.84	2.19	1.99
LM4675SDTR-ND	2.65W Class D Audio Power Amp*	8-LLP	1175.00/1,000		
LM4675TLCT-ND	2.65W Class D Audio Power Amp*	9-µSMD	2.50	1.94	1.76
LM4675TLTR-ND	2.65W Class D Audio Power Amp*	9-µSMD	357.50/250		
LM4702BTA-ND	Hi-Fi Audio Power Amplifier Driver*	TO-220-15	15.18	12.77	11.73
LM4702CTA-ND	*Overture*® Audio Power Amp*	TO-220-15	8.63	7.08	6.39
LM4730TA-ND	Stereo 14W Audio Power Amp*	TO-220-15	8.25	6.77	6.11
LM4731TA-ND	Stereo 25W Audio Power Amp with Mute/Standby*	TO-220-15	7.80	6.40	5.78
LM4752TS-ND	11W Stereo Audio Amp*	TO-263-7	2.86	2.30	2.10
LM4755T-ND	11W Stereo Audio Amp with Mute*	TO-220-9	3.06	2.47	2.22
LM4755TS-ND	11W Stereo Audio Amp with Mute*	TO-263-9	3.06	2.47	2.22
LM4765T-ND	30W Audio Power Amp with Mute/Standby Modes*	TO-220-15	7.45	6.11	5.52
LM4766T-ND	Dual 40W Audio Power Amp with Mute	TO-220-15	6.50	5.22	4.76
LM4766TF-ND	Dual 40W Audio Power Amp with Mute*	TO-220-15	6.70	5.50	4.96
LM4780TA-ND	Stereo 60W Audio Power Amp with Mute*	TO-220-27	11.53	9.70	8.91
LM4781TA-ND	3-Channel 35W Audio Power Amp with Mute*	TO-220-27	11.95	9.80	8.85
LM4782TA-ND	3-Channel 25W Audio Power Amp with Mute*	TO-220-27	12.85	10.81	9.93
LM4802BLQCT-ND	Audio Power Amp with Boost Converter*	28-LLP	5.13	4.19	3.77
LM4802BLQTR-ND	Audio Power Amp with Boost Converter*	28-LLP	2394.00/1,000		
LM4804LQCT-ND	Low Voltage High Power Audio Amp*	28-LLP	5.70	4.66	4.18
LM4804LQTR-ND	Low Voltage High Power Audio Amp*	28-LLP	2660.00/1,000		
LM4844TLCT-ND	Stereo 1.2W Audio Sub-System, 3-D Enhancement*	30-µSMD	4.86	3.97	3.57
LM4844TLTR-ND	Stereo 1.2W Audio Sub-System, 3-D Enhancement*	30-µSMD	749.25/250		
LM4846TLCT-ND	Output Capacitorless Audio Subsystem*	25-µSMD	5.70	4.66	4.18
LM4846TLTR-ND	Output Capacitorless Audio Subsystem*	25-µSMD	878.75/250		
LM4853LDCT-ND	Mono 1.9W/Stereo 300mW Power Amp*	14-LLP	2.63	2.03	1.84
LM4853LDTR-ND	Mono 1.9W/Stereo 300mW Power Amp*	14-LLP	1088.00/1,000		
LM4853MMCT-ND	Mono 1.9W/Stereo 300mW Power Amp*	10-MSOP	2.28	1.76	1.60
LM4853MMTR-ND	Mono 1.9W/Stereo 300mW Power Amp*	10-MSOP	943.00/1,000		
LM4857ITLCT-ND	1.2W Stereo Audio Subsystem*	30-µSMD	5.28	4.32	3.88
LM4857ITLTR-ND	1.2W Stereo Audio Subsystem*	30-µSMD	814.00/250		
LM4857SPCT-ND	1.2W Stereo Audio Subsystem*	28-LLP	5.43	4.44	3.99
LM4857SPTR-ND	1.2W Stereo Audio Subsystem*	28-LLP	2534.00/1,000		
LM4859SPCT-ND	Stereo 1.2W Audio Subsystem, 3-D Enhancement* ***NEW!***	28-LLP	4.56	3.73	3.35
LM4859SPTR-ND	Stereo 1.2W Audio Subsystem, 3-D Enhancement* ***NEW!***	28-LLP	2128.00/1,000		
LM4859TLCT-ND	Stereo 1.2W Audio Sub-System, 3-D Enhancement*	30-µSMD	4.56	3.73	3.35
LM4859TLTR-ND	Stereo 1.2W Audio Sub-System, 3-D Enhancement*	30-µSMD	703.00/250		
LM4960SQCT-ND	Piezoelectric Speaker Driver*	28-LLP	7.14	5.84	5.24
LM4960SQTR-ND	Piezoelectric Speaker Driver*	28-LLP	3332.00/1,000		
LM4961LQCT-ND	Ceramic Speaker Driver*	28-LLP	5.55	4.54	4.07
LM4961LQTR-ND	Ceramic Speaker Driver*	28-LLP	2590.00/1,000		
LM4970SDCT-ND	Audio Sync. Color LED Driver	14-LLP	2.66	2.06	1.87
LM4970SDTR-ND	Audio Sync. Color LED Driver	14-LLP	1102.00/1,000		
LM4982TLCT-ND	.051W Stereo Headphone Amp*	16-µSMD	2.45	1.89	1.72
LM4982TLTR-ND	.051W Stereo Headphone Amp*	16-µSMD	350.00/250		
LM4985TMCT-ND	.135W Low Noise Stereo Headphone Amp, OCL Out.*	12-µSMD	3.45	2.82	2.53
LM4985TMTR-ND	.135W Low Noise Stereo Headphone Amp, OCL Out.*	12-µSMD	532.00/250		
LM4990ITLCT-ND	2W Audio Power Amp*	9-µSMD	1.27	1.00	.90
LM4990ITLTR-ND	2W Audio Power Amp*	9-µSMD	179.00/250		
LM4990MMCT-ND	2W Audio Power Amp*	8-MSOP	1.27	1.00	.90
LM4990MMTR-ND	2W Audio Power Amp*	8-MSOP	500.00/1,000		
LM4992SDCT-ND	1.07W Stereo Cell Phone Audio Amp*	14-LLP	2.10	1.62	1.47
LM4992SDTR-ND	1.07W Stereo Cell Phone Audio Amp*	14-LLP	870.00/1,000		
LM4995SDCT-ND	1.25W Audio Power Amp*	8-LLP	1.82	1.44	1.30
LM4995SDTR-ND	1.25W Audio Power Amp*	8-LLP	720.00/1,000		
LMV1012TP-15CT-ND	Analog Pre-Amp for High Gain Microphone	4-µSMD	1.60	1.26	1.14
LMV1012TP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.29	1.02	.92
LMV1012TP-25TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	182.75/250		
LMV1012UP-07CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.29	1.02	.92
LMV1012UP-07TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	182.75/250		
LMV1012UP-15CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.29	1.02	.92
LMV1012UP-15TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	182.75/250		
LMV1012UP-20CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.29	1.02	.92
LMV1012UP-20TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	182.75/250		
LMV1012UP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.29	1.02	.92
LMV1012UP-25TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	182.75/250		
LMV1012UPX-07CT-ND	7.8dB, High Gain 2-Wire Microphone Pre-Amp*	4-µSMD	1.52	1.20	1.08
LMV1012UPX-07TR-ND	7.8dB, High Gain 2-Wire Microphone Pre-Amp*	4-µSMD	1428.00/3,000		
LMV1012XP-15CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.37	1.06	.96
LMV1012XP-15TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	195.00/250		
LMV1012XP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	1.51	1.17	1.06

* *RoHS Compliant*

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(Continued)

National Semiconductor Digi Reel® *(Cont.)*

AUDIO

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMV1012XP-25TR-ND	Analog Pre-Amp for High Gain Microphone*	4-µSMD	215.00/250		
LMV1015UR-25CT-ND	Built-in Gain IC for 2-Wire Microphone*	4-µSMD	1.56	1.23	1.11
LMV1015UR-25TR-ND	Built-in Gain IC for 2-Wire Microphone*	4-µSMD	220.50/250		
LMV1015XR-15CT-ND	Built-In Gain IC for 2-Wire Microphone*	4-µSMD	1.41	1.11	1.00
LMV1015XR-15TR-ND	Built-In Gain IC for 2-Wire Microphone*	4-µSMD	199.00/250		
LMV1031UR-20CT-ND	Amplifier for Internal 3-Wire Analog Microphone*	4-µSMD	1.82	1.44	1.30
LMV1031UR-20TR-ND	Amplifier for Internal 3-Wire Analog Microphone*	4-µSMD	258.00/250		
LMV1032UP-06CT-ND	Amp for 3-Wire Analog Electret Microphone	4-µSMD	1.75	1.35	1.23
LMV1032UP-15CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	1.75	1.35	1.23
LMV1032UP-15TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	250.00/250		
LMV1032UP-25CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	1.75	1.35	1.23
LMV1032UP-25TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	250.00/250		
LMV1032UPX-06CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	1.75	1.35	1.23
LMV1032UPX-06TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	2025.00/3,000		
LMV1032UR-15CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	1.79	1.41	1.27
LMV1032UR-15TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	252.75/250		
LMV1032UR-25CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	1.86	1.47	1.33
LMV1032UR-25TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-µSMD	263.50/250		
LMV1088RLCT-ND	Dual Input, Noise Suppression Microphone Amp*	36-µSMD	13.80	11.70	10.80
LMV1088RLTR-ND	Dual Input, Noise Suppression Microphone Amp*	36-µSMD	2325.00/250		
Boomer®					
LM4805LQCT-ND	3V, 1.2W, Boosted Boomer®*	28-LLP	5.40	4.41	3.96
LM4808M-ND	Dual .15W Headphone Amp*	8-SOIC	.88	.69	.60
LM4809LQCT-ND	Dual .105W Headphone Amp*	8-LLP	1.14	.90	.81
LM4809LQTR-ND	Dual .105W Headphone Amp*	8-LLP	450.00/1,000		
LM4809MMCT-ND	Dual .105W Headphone Amp*	8-MSOP	.92	.72	.63
LM4809MMTR-ND	Dual .105W Headphone Amp*	8-MSOP	336.00/1,000		
LM4810MMCT-ND	Dual .105W Headphone Amp with Shutdown*	8-MSOP	.92	.72	.63
LM4810MMTR-ND	Dual .105W Headphone Amp with Shutdown*	8-MSOP	336.00/1,000		
LM4811LDCT-ND	Dual .105W Headphone Amp, Volume, Shutdown*	10-LLP	1.86	1.47	1.33
LM4811LDTR-ND	Dual .105W Headphone Amp, Volume, Shutdown*	10-LLP	735.00/1,000		
LM4811MMCT-ND	Dual .105W Headphone Amp, Vol. Control, Shutdown*	10-MSOP	1.86	1.47	1.33
LM4811MMTR-ND	Dual .105W Headphone Amp, Vol. Control, Shutdown*	10-MSOP	735.00/1,000		
LM4840LQCT-ND	Stereo 2.2W Audio Pwr Amp with Digital Volume*	28-LLP	4.86	3.97	3.57
LM4841LQCT-ND	Stereo 2.2W Amp with DC Volume Control*	28-LLP	3.72	3.04	2.73
LM4841MH-ND	Stereo 2.2W Amp with DC Volume Control*	28-TSSOP	4.54	3.65	3.33
LM4860M-ND	Series 1.15W Audio Power Amp with Shutdown Mode*	16-SOIC	1.71	1.38	1.24
LM4861M-ND	1.5W Audio Power Amp with Shutdown Mode*	8-SOIC	1.71	1.38	1.24
LM4861MXCT-ND	1.5W Audio Power Amp with Shutdown Mode	8-SOIC	1.93	1.49	1.35
LM4861MXTR-ND	1.5W Audio Power Amp with Shutdown Mode	8-SOIC	1857.50/2,500		
LM4862M-ND	.825W Audio Power Amp with Shutdown Mode*	8-SOIC	1.61	1.30	1.17
LM4864M-ND	.675W Audio Power Amp with Shutdown Mode*	8-SOIC	1.30	1.04	.91
LM4864MMCT-ND	.300W Audio Power Amp with Shutdown Mode*	8-MSOP	1.48	1.17	1.06
LM4864MMTR-ND	.300W Audio Power Amp with Shutdown Mode*	8-MSOP	585.00/1,000		
LM4865M-ND	1W Audio Power Amp with DC Volume Control*	8-SOIC	2.02	1.63	1.47
LM4865MMCT-ND	1W Audio Power Amp with DC Volume Control*	8-MSOP	2.47	1.95	1.76
LM4865MMTR-ND	1W Audio Power Amp with DC Volume Control*	8-MSOP	943.00/1,000		
LM4871LDCT-ND	3W Audio Power Amp with Shutdown Mode*	8-LLP	1.71	1.35	1.22
LM4871LDTR-ND	3W Audio Power Amp with Shutdown Mode*	8-LLP	675.00/1,000		
LM4871M-ND	3W Audio Power Amp with Shutdown Mode*	8-SOIC	1.44	1.15	1.01
LM4871MMCT-ND	3W Audio Power Amp with Shutdown Mode*	8-MSOP	1.56	1.23	1.11
LM4871MMTR-ND	3W Audio Power Amp with Shutdown Mode*	8-MSOP	615.00/1,000		
LM4876M-ND	1.5W Audio Power Amp with Logic Low Shutdown*	8-SOIC	1.40	1.12	.98
LM4876MMCT-ND	1.5W Audio Power Amp with Logic Low Shutdown*	10-MSOP	1.75	1.38	1.25
LM4876MMTR-ND	1.5W Audio Power Amp with Logic Low Shutdown*	10-MSOP	690.00/1,000		
LM4879SDCT-ND	1.1W Audio Power Amp with Shutdown Mode*	8-LLP	1.96	1.52	1.38
LM4879SDTR-ND	1.1W Audio Power Amp with Shutdown Mode*	8-LLP	812.00/1,000		
LM4880M-ND	Dual .325W Audio Power Amp with Shutdown Mode*	8-SOIC	1.55	1.25	1.13
LM4881M-ND	Dual .3W Headphone Amp with Shutdown Mode*	8-SOIC	1.71	1.38	1.24
LM4881MMCT-ND	Dual .3W Headphone Amp with Shutdown Mode*	8-MSOP	1.93	1.49	1.35
LM4881MMTR-ND	Dual .3W Headphone Amp with Shutdown Mode*	8-MSOP	798.00/1,000		
LM4889MA-ND	1W Audio Power Amp*	8-SOIC	1.30	1.04	.91
LM4889MMCT-ND	1W Audio Power Amp*	8-MSOP	1.22	.96	.87
LM4889MMTR-ND	1W Audio Power Amp*	8-MSOP	480.00/1,000		
LM4890M-ND	1W Audio Power Amp with Shutdown Mode*	8-SOIC	1.58	1.28	1.15
LM4890MXTR-ND	1W Audio Power Amp with Shutdown Mode*	8-SOIC	1722.50/2,500		
LM4898LDCT-ND	1.4W Fully Differential Audio Power Amp*	10-LLP	1.75	1.38	1.25
LM4898LDTR-ND	1.4W Fully Differential Audio Power Amp*	10-LLP	690.00/1,000		
LM4898MMCT-ND	1.4W Fully Differential Audio Power Amp*	10-MSOP	1.75	1.38	1.25
LM4898MMTR-ND	1.4W Fully Differential Audio Power Amp*	10-MSOP	690.00/1,000		
LM4906MMCT-ND	1W Audio Amp with Selectable Gain*	8-MSOP	1.79	1.38	1.25
LM4906MMTR-ND	1W Audio Amp with Selectable Gain*	8-MSOP	740.00/1,000		
LM4910MMCT-ND	Output Capacitor-less Stereo 0.035W Headphone Amp*	8-MSOP	1.56	1.23	1.11
LM4910MMTR-ND	Output Capacitor-less Stereo 0.035W Headphone Amp*	8-MSOP	615.00/1,000		
LM4911MMCT-ND	Stereo .145W Low Noise Headphone Amp*	10-MSOP	1.79	1.38	1.25
LM4916LDCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Amp*	10-LLP	1.79	1.38	1.25
LM4916LDTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Amp*	10-LLP	740.00/1,000		
LM4916MMCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Amp*	10-MSOP	1.79	1.38	1.25
LM4916MMTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Amp*	10-MSOP	740.00/1,000		
LM4917MT-ND	Ground Ref., 95mW Stereo Headphone Amp* ***NEW!***	14-TSSOP	2.67	2.15	1.94
LM4917SDCT-ND	Ground Ref., 95mW Stereo Headphone Amp* ***NEW!***	14-LLP	2.84	2.19	1.99
LM4917SDTR-ND	Ground Ref., 95mW Stereo Headphone Amp* ***NEW!***	14-LLP	1175.00/1,000		
LM4920TLCT-ND	Fixed Gain, .80W Stereo Headphone Amp*	14-µSMD	2.93	2.26	2.05
LM4920TLTR-ND	Fixed Gain, .80W Stereo Headphone Amp*	14-µSMD	418.00/250		
LM4921ITLCT-ND	Low Voltage I2S 16-Bit Stereo DAC*	20-µSMD	3.43	2.65	2.41
LM4921ITLTR-ND	Low Voltage I2S 16-Bit Stereo DAC*	20-µSMD	490.00/250		
LM4923LQCT-ND	1.1W Fully Differential Audio Power Amp*	8-LLP	1.25	.99	.90
LM4923LQTR-ND	1.1W Fully Differential Audio Power Amp*	8-LLP	495.00/1,000		
LM4923MMCT-ND	1.1W Fully Differential Audio Power Amp*	8-MSOP	1.56	1.23	1.11
LM4923MMTR-ND	1.1W Fully Differential Audio Power Amp*	8-MSOP	615.00/1,000		
LM4924MMCT-ND	.04W Output Capacitor-Less Stereo Headphone Amp*	10-MSOP	3.00	2.45	2.20
LM4924MMTR-ND	.04W Output Capacitor-Less Stereo Headphone Amp*	10-MSOP	1400.00/1,000		
LM4927SDCT-ND	2.5W Fully Differential Audio Power Amp*	8-LLP	1.84	1.42	1.29
LM4928TLCT-ND	2.2W Fully Differential Audio Power Amp*	16-µSMD	3.00	2.45	2.20
LM4928TLTR-ND	2.2W Fully Differential Audio Power Amp*	16-µSMD	1400.00/1,000		
LM4929MMCT-ND	Stereo .08W Low Noise Headphone Amp*	10-MSOP	2.49	1.92	1.74
LM4929MMTR-ND	Stereo .08W Low Noise Headphone Amp*	10-MSOP	1030.00/1,000		
LM4930ITLCT-ND	Audio Subsystem, Headphone/Speaker Amp*	36-µSMD	9.94	8.25	7.50
LM4930ITLTR-ND	Audio Subsystem, Headphone/Speaker Amp*	36-µSMD	1593.75/250		
LM4931ITLCT-ND	Audio Subsystem, Loudspeaker/Headphone Amp*	42-µSMD	9.96	8.28	7.52
LM4931ITLTR-ND	Audio Subsystem, Loudspeaker/Headphone Amp*	42-µSMD	1598.00/250		
LM4934RLCT-ND	Audio Subsystem, Headphone/Speaker Amp*	42-µSMDxt	7.05	5.86	5.32
LM4935RLCT-ND	Audio Subsystem, Headphone/Speaker Amp*	49-µSMDxt	9.57	7.95	7.22
LM4935RLTR-ND	Audio Subsystem, Headphone/Speaker Amp*	49-µSMDxt	1534.25/250		
LM4936MH-ND	Stereo 2.2W Audio Power Amp with Volume Control*	28-TSSOP	4.68	3.76	3.43
LM4937RLCT-ND	Audio Sub-System, OCL Stereo Headphone Output* ***NEW!***	36-µSMDxt	7.05	5.86	5.32
LM4937RLTR-ND	Audio Sub-System, OCL Stereo Headphone Output* ***NEW!***	36-µSMDxt	1130.50/250		
LM4937TLCT-ND	Audio Subsystem, OCL Stereo Headphone Output*	36-µSMD	7.05	5.86	5.32
LM4937TLTR-ND	Audio Subsystem, OCL Stereo Headphone Output*	36-µSMD	1130.50/250		
LM4938MH-ND	Stereo 2.2W Audio Power Amp*	28-TSSOP	2.70	2.18	1.96
LM4940TS-ND	Stereo 6W Audio Power Amp*	TO-263-9	3.00	2.41	2.20
LM4941SDCT-ND	1.54W Audio Power, RF Suppression/Shutdown*	8-LLP	1.93	1.49	1.35
LM4941TMCT-ND	1.54W Power Amp, with RF Suppression/Shutdown*	9-µSMD	1.75	1.35	1.23
LM4941TMTR-ND	1.54W Power Amp, with RF Suppression/Shutdown*	9-µSMD	250.00/250		
LM4946SQCT-ND	1.3W Output Capacitor Less Audio Subsystem*	24-LLP	6.60	5.39	4.84
LM4946SQTR-ND	1.3W Output Capacitor Less Audio Subsystem*	24-LLP	3080.00/1,000		
LM4946TMCT-ND	1.3W Output Capacitor Less Audio Subsystem*	25-µSMD	6.60	5.39	4.84
LM4947TLCT-ND	1.19W Mono Class D/Stereo Audio Subsystem*	25-µSMD	6.00	4.90	4.40
LM4947TLTR-ND	1.19W Mono Class D/Stereo Audio Subsystem*	25-µSMD	925.00/250		
LM4949TLCT-ND	2.5W Stereo Class D Audio Subsystem*	25-µSMD	5.70	4.66	4.18
LM4949TLTR-ND	2.5W Stereo Class D Audio Subsystem*	25-µSMD	878.75/250		
LM4950TA-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp*	TO-220-5	3.16	2.55	2.32
LM4950TS-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp*	TO-263-5	3.16	2.55	2.32
LM4951ASDCT-ND	Wide Voltage Range 1.8W Audio Amp* ***NEW!***	10-LLP	3.27	2.68	2.40
LM4951ASDTR-ND	Wide Voltage Range 1.8W Audio Amp* ***NEW!***	10-LLP	1526.00/1,000		
LM4951SDCT-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP	3.27	2.68	2.40
LM4951SDTR-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP	1526.00/1,000		
LM4954TLCT-ND	High Voltage 1W Audio Power Amp*	9-µSMD	3.15	2.58	2.31
LM4954TLTR-ND	High Voltage 1W Audio Power Amp*	9-µSMD	485.75/250		
LM4980SDCT-ND	1mA, .042W High Fidelity Stereo Headphone Amp*	10-LLP	7.35	6.01	5.39
LM4995TMCT-ND	1.3W Audio Power Amplifier*	9-µSMD	1.79	1.41	1.27
LM4995TMTR-ND	1.3W Audio Power Amplifier*	9-µSMD	252.75/250		
LM48100QMHECT-ND	1.3W Mono Audio Power Amplifier*	14-ETSSOP	3.00	2.45	2.20
LM48100QMHETR-ND	1.3W Mono Audio Power Amplifier*	14-ETSSOP	462.50/250		
LM48413TLCT-ND	1.2W Class D Audio Power Amplifier*	18-µSMD	3.15	2.58	2.31
LM48413TLTR-ND	1.2W Class D Audio Power Amplifier*	18-µSMD	485.75/250		
LM48520TLCT-ND	1.1W Class D Audio Power Amplifier*	25-µSMD	3.50	2.82	2.57
LM48520TLTR-ND	1.1W Class D Audio Power Amplifier*	25-µSMD	578.25/250		
LM48557TLCT-ND	Class AB Mono Audio Power Amplifier* ***NEW!***	16-µSMD	2.80	2.16	1.96
LM48557TLTR-ND	Class AB Mono Audio Power Amplifier* ***NEW!***	16-µSMD	400.00/250		
LM48822TLCT-ND	35mW Stereo Headphone Amplifier*	16-µSMD	3.19	2.57	2.34
LM48822TLTR-ND	35mW Stereo Headphone Amplifier*	16-µSMD	527.25/250		
LM48823TLCT-ND	Audio Power Amp with Shutdown Mode*	16-µSMD	3.75	3.07	2.75
LM48823TLTR-ND	Audio Power Amp with Shutdown Mode*	16-µSMD	578.25/250		
LM48824TMCT-ND	37mW Class G Audio Power Amplifier* ***NEW!***	16-µSMD	1.83	1.41	1.28
LM48824TMTR-ND	37mW Class G Audio Power Amplifier* ***NEW!***	16-µSMD	261.00/250		
LM48860TLCT-ND	40mW Stereo Headphone Amplifier*	12-µSMD	1.92	1.55	1.40
LM48860TLTR-ND	40mW Stereo Headphone Amplifier*	12-µSMD	310.00/250		
LM48861TMCT-ND	Audio Power Amp with Shutdown Mode*	12-µSMD	2.42	1.87	1.70
LM48861TMTR-ND	Audio Power Amp with Shutdown Mode*	12-µSMD	345.00/250		
LM49120TLCT-ND	Audio Sub-System Loudspeaker/Headphone*	16-µSMD	2.53	2.05	1.84
LM49120TLTR-ND	Audio Sub-System Loudspeaker/Headphone*	16-µSMD	715.00/500		
LM49150TLCT-ND	Audio Subsystem, Stereo Headphone Amp*	20-µSMD	3.00	2.41	2.20
LM49150TLTR-ND	Audio Subsystem, Stereo Headphone Amp*	20-µSMD	4269.00/3,000		
LM49151TLCT-ND	1.25W Class D Audio Power Amplifier* ***NEW!***	20-µSMD	3.84	3.14	2.82
LM49151TLTR-ND	1.25W Class D Audio Power Amplifier* ***NEW!***	20-µSMD	592.00/250		
LM49200TLCT-ND	1.25W Audio Sub-System* ***NEW!***	20-µSMD	3.84	3.14	2.82
LM49200TLTR-ND	1.25W Audio Sub-System* ***NEW!***	20-µSMD	592.00/250		
LM49250RLCT-ND	2.43W Audio Sub-System*	36-µSMD	4.40	3.54	3.22
LM49250RLTR-ND	2.43W Audio Sub-System*	36-µSMD	726.25/250		
LM49321RLCT-ND	Audio Subsystem, Stereo Headphone/Speaker*	36-µSMDxt	6.65	5.46	4.93
LM49321RLTR-ND	Audio Subsystem, Stereo Headphone/Speaker*	36-µSMDxt	1130.50/250		
LM49350RLCT-ND	Audio Subsystem, Stereo Headphone/Speaker*	36-µSMDxt	7.37	6.20	5.70
LM49350RLTR-ND	Audio Subsystem, Stereo Headphone/Speaker*	36-µSMDxt	1298.25/250		
LM49352RLCT-ND	1.4W, Mono Class D Audio Power Amplifier* ***NEW!***	36-µSMD	8.88	7.37	6.70
LM49352RLTR-ND	1.4W, Mono Class D Audio Power Amplifier* ***NEW!***	36-µSMD	1423.75/250		
LM49450SQCT-ND	2.5W Audio Sub-System*	32-LLP	7.95	6.60	6.00
LM49450SQTR-ND	2.5W Audio Sub-System*	32-LLP	4050.00/1,000		
LM4962TLCT-ND	Audio Power Mono Amp* ***NEW!***	20-µSMD	5.55	4.54	4.07
LM4962TLTR-ND	Audio Power Mono Amp* ***NEW!***	20-µSMD	855.75/250		
LME49610TS-ND	High Performance, High Fidelity, High Current Audio*	TO-263-5	12.48	10.23	9.24
LME49713HA-ND	High Performance, High Fidelity Audio Op Amp*	TO-99-8	22.80	19.38	17.96
LME49743MT-ND	Quad High Performance, High Fidelity Audio Op Amp*	14-TSSOP	3.42	2.75	2.51

National Semiconductor Digi Reel®

BATTERY MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3918TL-ACT-ND	Battery Charge Management/Regulator Unit	25-µSMD	2.52	1.95	1.77
LP3918TL-ATR-ND	Battery Charge Management/Regulator Unit	25-µSMD	630.00/500		
PowerWise®					
LP3947ISD-09CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	3.21	2.63	2.36
LP3947ISD-09TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	1498.00/1,000		
LP3947ISD-51CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	3.21	2.63	2.36
LP3947ISD-51TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	1498.00/1,000		

National Semiconductor Digi Reel®

CLOCK / TIMING

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS10BR150TSDCT-ND	1.0Gbps LVDS Buffer/Repeater	8-LLP	3.42	2.80	2.51
DS10BR150TSDTR-ND	1.0Gbps LVDS Buffer/Repeater	8-LLP	1596.00/1,000		
DS10BR254TSQCT-ND	1.5Gbps 1:4 LVDS Repeater	40-LLP	9.94	8.25	7.50
DS10BR254TSQTR-ND	1.5Gbps 1:4 LVDS Repeater	40-LLP	1593.75/250		
DS90LV110ATMT-ND	1-to-10 LVDS Data/Clock Distributor with Failsafe	28-TSSOP	8.33	6.83	6.17
DS90LV110TMTC-ND	1-to-10 LVDS Data/Clock Distributor	28-TSSOP	7.73	6.34	5.72
DS91M040TSQCT-ND	125MHz Quad M-LVDS Transceiver	32-LLP	9.54	7.92	7.20
DS91M040TSQTR-ND	125MHz Quad M-LVDS Transceiver	32-LLP	4860.00/1,000		
DS91M047TMA-ND	125MHz Quad M-LVDS Line Driver	16-SOIC	6.68	5.48	4.94
DS91M124TMA-ND	125MHz 1:4 M-LVDS Repeater	16-SOIC	6.33	5.19	4.69
DS91M125TMA-ND	125MHz 1:4 M-LVDS Repeater	16-SOIC	6.33	5.19	4.69
LM555CM-ND	Timer	8-SOIC	1.27	1.02	.90
LM555CMXCT-ND	Timer	8-SOIC	1.38	1.10	.99
LM555CMXTR-ND	Timer	8-SOIC	1275.00/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor Digi-Reel® (Cont.) CLOCK / TIMING

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM555CMMCT-ND	Timer	8-MSOP	1.33	1.05	.95
LM555CMMTR-ND	Timer	8-MSOP	524.00/1,000		
LM555CNNS-ND	Timer	8-Dip	1.42	1.14	1.00
LM556CM-ND	Dual Timer	14-SOIC	1.72	1.38	1.21
LM556CMXCT-ND	Dual Timer	14-SOIC	1.86	1.47	1.33
LM556CMXTR-ND	Dual Timer	14-SOIC	1715.00/2,500		
LM556CN-ND	Timer	14-Dip	1.55	1.25	1.13
LMC555CM-ND	CMOS Timer	8-SOIC	1.32	1.06	.93
LMC555CMXCT-ND	CMOS Timer	8-SOIC	1.43	1.14	1.02
LMC555CMXTR-ND	CMOS Timer	8-SOIC	1320.00/2,500		
LMC555CMMCT-ND	CMOS Timer, In Small Package	8-MSOP	1.67	1.32	1.19
LMC555CMMTR-ND	CMOS Timer, In Small Package	8-MSOP	659.00/1,000		
LMC555CN-ND	CMOS Timer	8-Dip	1.65	1.32	1.16
LMH2190TM-38CT-ND	27MHz Quad Channel Clock Tree Driver ***NEW!***	16-µSMD	3.99	3.26	2.93
LMH2190TM-38TR-ND	27MHz Quad Channel Clock Tree Driver ***NEW!***	16-µSMD	615.25/250		
LMK01000ISQECT-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	15.16	12.75	11.72
LMK01000ISQETR-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	2670.00/250		
LMK01010ISQECT-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	15.85	13.44	12.41
LMK01010ISQETR-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	2670.00/250		
LMK01020ISQECT-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	15.85	13.44	12.41
LMK01020ISQETR-ND	1.6GHz High Perf. Clock Buffer/Divider/Dist.	48-LLP	2670.00/250		
LMK03200ISQECT-ND	Precision Clock Conditioner with Integrated VCO ***NEW!***	48-LLP	18.58	15.76	14.55
LMK03200ISQETR-ND	Precision Clock Conditioner with Integrated VCO ***NEW!***	48-LLP	3131.00/250		
Powerwise®					
LMK02000ISQCT-ND	Precision Clock Conditioner with Integrated PLL	48-LLP	17.94	15.21	14.04
LMK02000ISQTR-ND	Precision Clock Conditioner with Integrated PLL	48-LLP	3022.50/250		
LMK02002ISQCT-ND	Precision Clock Conditioner with Integrated PLL	48-LLP	15.30	12.97	11.97
LMK02002ISQTR-ND	Precision Clock Conditioner with Integrated PLL	48-LLP	2577.00/250		
LMK03000CISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	21.80	19.62	17.99
LMK03000CISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3951.25/250		
LMK03000DISQECT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	16.40	13.91	12.84
LMK03000DISQETR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	2763.00/250		
LMK03000ISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	20.00	18.00	16.50
LMK03000ISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3625.00/250		
LMK03001CISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	21.80	19.62	17.99
LMK03001CISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3951.25/250		
LMK03001DISQECT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	16.40	13.91	12.84
LMK03001DISQETR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	2763.00/250		
LMK03001ISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	20.00	18.00	16.50
LMK03001ISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3625.00/250		
LMK03002CISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	17.83	15.12	13.95
LMK03002CISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3003.25/250		
LMK03002ISQCT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	17.48	14.82	13.68
LMK03002ISQTR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	2945.00/250		
LMK03033CISQECT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	21.80	18.53	17.17
LMK03033CISQETR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3951.25/250		
LMK03033ISQECT-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	20.00	17.00	15.75
LMK03033ISQETR-ND	Precision Clock Conditioner with Integrated VCO	48-LLP	3625.00/250		
LMK04000BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	22.80	20.52	18.81
LMK04000BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	4132.50/250		
LMK04000BEVAL-ND	Evaluation Board for LMK04000B ***NEW!***	—	340.00	—	—
LMK04001BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	22.80	20.52	18.81
LMK04001BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	4132.50/250		
LMK04002BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	22.80	20.52	18.81
LMK04002BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	4132.50/250		
LMK04002BEVAL-ND	Evaluation Board for LMK04002B ***NEW!***	—	340.00	—	—
LMK04010BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	22.80	20.52	18.81
LMK04010BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs ***NEW!***	48-LLP	4132.50/250		
LMK04011BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	22.80	20.52	18.81
LMK04011BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	4132.50/250		
LMK04031BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	22.80	20.52	18.81
LMK04031BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	4132.50/250		
LMK04033BISQECT-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	22.80	20.52	18.81
LMK04033BISQETR-ND	Precision Clock Conditioner with Cascaded PLLs	48-LLP	4132.50/250		

National Semiconductor Digi-Reel® COMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC567CMX/NOPBTR-ND	CMOS Tone Decoder Phase-Lock-Loop*	8-SOIC	2112.50/2,500		
LMC567CN-ND	CMOS Tone Decoder Phase-Lock-Loop*	8-Dip	2.23	1.80	1.62
LMH2100TMCT-ND	50MHz to 4GHz, 40dB Logarithmic Power Detector*	6-µSMD	3.36	2.60	2.36
LMH2100TMTR-ND	50MHz to 4GHz, 40dB Logarithmic Power Detector*	6-µSMD	480.00/250		
LMV226TLCT-ND	RF Power Detector for CDMA and WCDMA	4-µSMD	1.75	1.35	1.23
LMV226TLTR-ND	RF Power Detector for CDMA and WCDMA	4-µSMD	250.00/250		
LMV226URCT-ND	RF Power Detector for CDMA and WCDMA* ***NEW!***	4-µSMD	1.75	1.35	1.23
LMV226URTR-ND	RF Power Detector for CDMA and WCDMA* ***NEW!***	4-µSMD	250.00/250		
PC16550DN-ND	UART*	40-Dip	9.20	7.55	6.81
PC16550DV-ND	UART*	44-PLCC	8.23	6.75	6.09
PC16552DV-ND	Dual UART*	44-PLCC	9.98	8.18	7.39
TP3054WM-ND	Enhanced Serial Interface CODEC Filter*	16-SOIC	5.24	4.21	3.84
TP3071N-G-ND	COMBO®II Programmable PCM CODEC Filter* ***NEW!***	20-Dip	8.50	6.97	6.29
PowerWise®					
LM5070MTC-50-ND	Power Over Ethernet PD Interface/PWM Cont., Slope*	16-TSSOP	3.86	3.11	2.83
LM5070MTC-80-ND	Power Over Ethernet PD Interface/PWM Cont., Slope*	16-TSSOP	3.86	3.11	2.83
LM5070SD-50CT-ND	Power Over Ethernet PD Interface/PWM Cont., No Slope	16-LLP	4.14	3.39	3.04
LM5070SD-50TR-ND	Power Over Ethernet PD Interface/PWM Cont., No Slope	16-LLP	1932.00/1,000		
LM5071MT-50-ND	Power Over Ethernet PD Controller*	16-TSSOP	3.86	3.11	2.83
LM5071MT-80-ND	Power Over Ethernet PD Controller*	16-TSSOP	3.86	3.11	2.83
LM5072MH-50-ND	Power Over Ethernet PD Controller*	16-TSSOP	4.93	3.96	3.61
LM5072MH-80-ND	Power Over Ethernet PD Controller*	16-TSSOP	4.93	3.96	3.61
LM5073MH-ND	100V Power Over Ethernet PD Interface, Aux Support*	14-TSSOP	3.19	2.57	2.34
LMV221SDCT-ND	RF Logarithmic Power Detector for CDMA/WCDMA*	6-LLP	3.26	2.52	2.28
LMV221SDTR-ND	RF Logarithmic Power Detector for CDMA/WCDMA*	6-LLP	1349.00/1,000		
LMV225SDCT-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	1.92	1.55	1.40
LMV225SDTR-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	899.00/1,000		
LMV225TLCT-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	1.21	.96	.86
LMV225TLTR-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	171.00/250		
LMV225URCT-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	1.21	.96	.86
LMV225URTR-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	171.00/250		
LMV227SDCT-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	2.35	1.81	1.65
LMV227SDTR-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	972.00/1,000		
LMV228SDCT-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	1.86	1.44	1.30
LMV228SDTR-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	769.00/1,000		
LMV228TLCT-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	1.52	1.20	1.08

National Semiconductor Digi-Reel® (Cont.) COMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV228TLTR-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	215.00/250		
LMV228URCT-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	1.52	1.20	1.08
LMV228URTR-ND	RF Power Detector for CDMA and WCDMA*	4-µSMD	215.00/250		
LMV232TLCT-ND	CDMA/WCDMA Dual Mean Square RF Pwr Detector*	8-µSMD	3.05	2.35	2.14
LMV232TLTR-ND	CDMA/WCDMA Dual Mean Square RF Pwr Detector*	8-µSMD	435.00/250		
LMV242LDCT-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	2.07	1.60	1.45
LMV242LDTR-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	856.00/1,000		

National Semiconductor Digi-Reel® ETHERNET

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP83640TVV-ND	Prec. PHYTER-IEEE® 1588 Time Protocol TxRx	48-LQFP	12.45	10.21	9.22
DP83815DVNG-ND	10/100 Mb/s Integrated PCI Ethernet Media Access Controller and Physical Layer	144-LQFP	13.93	11.72	10.77
DP83816AVNG-ND	10/100 Mb/s PCI Ethernet Media Access Controller (MacPHYTER-II)	144-LQFP	11.65	9.56	8.63
DP83816AVNG-EX-ND	10/100 Mb/s PCI Ethernet Media Access Controller (MacPHYTER-II)	144-LQFP	11.65	9.56	8.63
DP83843BVJE-ND	PHYTER® with Integrated PMD Sublayers	80-PQFP	21.80	18.53	17.17
DP83846AVHG-ND	DsPHYTER® Single 10/100 Ethernet Transceiver	80-LQFP	11.35	9.55	8.78
DP83847ALQA56A-ND	DsPHYTER II® Single 10/100 Ethernet Transceiver	56-LLP	6.66	5.36	4.88
DP83848CVV-ND	PHYTER® Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	48-LQFP	6.80	5.58	5.04
DP83848IVV-ND	PHYTER® Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	48-LQFP	7.83	6.42	5.80
DP83848JSQCT-ND	PHYTER® Commercial Temperature Single Port 10/100 Ethernet Transceiver	40-LLP	3.84	3.14	2.82
DP83848JSQTR-ND	PHYTER® Commercial Temperature Single Port 10/100 Ethernet Transceiver	40-LLP	592.00/250		
DP83848KSQCT-ND	PHYTER® Industrial Temperature Single Port 10/100 Ethernet Transceiver	40-LLP	5.13	4.19	3.77
DP83848KSQTR-ND	PHYTER® Industrial Temperature Single Port 10/100 Ethernet Transceiver	40-LLP	791.00/250		
DP83848MSQCT-ND	PHYTER® Commercial Temperature 10/100 Ethernet Transceiver ***NEW!***	40-LLP	3.84	3.14	2.82
DP83848MSQTR-ND	PHYTER® Commercial Temperature 10/100 Ethernet Transceiver ***NEW!***	40-LLP	592.00/250		
DP83848TSQCT-ND	PHYTER® Industrial Temperature 10/100 Ethernet Transceiver ***NEW!***	40-LLP	5.13	4.19	3.77
DP83848TSQTR-ND	PHYTER® Industrial Temperature 10/100 Ethernet Transceiver ***NEW!***	40-LLP	791.00/250		
DP83848VYB-ND	PHYTER® Extended Temp. Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	48-LQFP	28.40	24.14	22.37
DP83848YB-ND	PHYTER® Extreme Temp. Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver ***NEW!***	48-LQFP	33.20	28.22	26.15
DP83849CVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	80-TQFP	8.30	6.81	6.15
DP83849IDVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	80-TQFP	9.98	8.18	7.39
DP83849IFVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	80-TQFP	11.88	9.74	8.79
DP83849IVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	80-TQFP	11.28	9.25	8.35
DP83865DVH-ND	10/100/1000 Ethernet Physical Layer (Gig PHYTER®V)	128-PQFP	24.80	21.08	19.53

National Semiconductor Digi-Reel® INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC001AJE-ND	Serial Digital Cable Driver*	8-SOIC	5.32	4.28	3.90
CLC005AJE-ND	ITU-T G.703 Cable Driver*	8-SOIC	13.33	11.22	10.31
CLC006BM-ND	Serial Digital Cable Driver w/ Adjustable Outputs*	8-SOIC	11.75	9.64	8.70
CLC007BM-ND	Serial Digital Cable Driver with Dual Complementary Out*	8-SOIC	8.90	7.30	6.59
CLC020BCQ-ND	SMPTE 259M Digital Video Serializer*	28-PLCC	38.00	32.30	29.93
CLC021AVGZ-3.3-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion*	44-PQFP	45.70	39.52	37.05
CLC021AVGZ-5.0-ND	SMPTE 259M Digital Video Serializer*	44-PQFP	45.70	39.52	37.05
DS10CP152QMACT-ND	Auto 1.5Gbps 2x2 LVDS Crosspoint Switch*	16-SOIC	10.81	8.98	8.16
DS10CP152QMATR-ND	Auto 1.5Gbps 2x2 LVDS Crosspoint Switch*	16-SOIC	1734.00/250		
DS10CP152TMA-ND	1.5Gbps 2x2 LVDS Crosspoint Switch*	16-SOIC	8.50	6.97	6.29
DS10CP154ATSQCT-ND	1.5Gbps 4x4 LVDS Crosspoint Switch*	40-LLP	11.95	9.93	9.02
DS10CP154ATSQTR-ND	1.5Gbps 4x4 LVDS Crosspoint Switch*	40-LLP	1916.75/250		
DS14C88M-ND	Quad CMOS Line Driver*	14-SOIC	1.74	1.40	1.26
DS14C88MXCT-ND	Quad CMOS Line Driver* ***NEW!***	14-SOIC	1.96	1.52	1.38
DS14C88MXTR-ND	Quad CMOS Line Driver*	14-SOIC	1890.00/2,500		
DS14C88N-ND	Quad CMOS Line Driver*	14-Dip	2.85	2.30	2.07
DS14C89AM-ND	Quad CMOS Line Receiver*	14-SOIC	1.89	1.53	1.38
DS14C89AN-ND	Quad CMOS Line Receiver*	14-Dip	3.10	2.50	2.25
DS14C232CM-ND	LP +5V, Power TIA/EIA-232 Dual Driver/Receiver*	16-SOIC	3.08	2.48	2.26
DS14C232CN-ND	EIA232 Dual Driver/Receiver Low Power*	16-Dip	3.50	2.82	2.57
DS14C232TM-ND	EIA232 Dual Driver/Receiver Low Power*	16-SOIC	3.70	2.97	2.71
DS14C335MSA-ND	3.3V, Supply TIA/EIA-232 3x5 Driver/Receiver*	28-SSOP	9.83	8.06	7.28
DS14C535MSA-ND	5V, Supply EIA/TIA-232 3x5 Driver/Receiver*	28-SSOP	8.15	6.69	6.04
DS25CP102QSQCT-ND	Auto 3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	13.00	11.02	10.17
DS25CP102QSQTR-ND	Auto 3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	7515.00/1,000		
DS25CP102TSQCT-ND	3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	12.46	10.34	9.40
DS25CP102TSQTR-ND	3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	6345.00/1,000		
DS25CP152QSQCT-ND	Auto 3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	12.46	10.34	9.40
DS25CP152QSQTR-ND	Auto 3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	6345.00/1,000		
DS25CP152TSQCT-ND	3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	10.60	8.80	8.00
DS25CP152TSQTR-ND	3.125Gbps 2x2 LVDS Crosspoint Switch*	16-LLP	5400.00/1,000		
DS25MB100TSQCT-ND	2.5Gbps 2:1 Mux/1:2 Buffer* ***NEW!***	36-LLP	11.95	9.93	9.02
DS25MB100TSQTR-ND	2.5Gbps 2:1 Mux/1:2 Buffer* ***NEW!***	36-LLP	1916.75/250		
DS25MB200TSQCT-ND	Dual 2.5Gbps 1:2 Mux/Buffer*	48-LLP	14.74	12.50	11.54
DS25MB200TSQTR-ND	Dual 2.5Gbps 1:2 Mux/Buffer*	48-LLP	2484.00/250		
DS26C31TM-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1.81	1.46	1.32
DS26C31TMXTR-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1970.00/2,500		
DS26C31TN-ND	CMOS Quad RS-422 Line Driver*	16-Dip	2.33	1.88	1.70
DS26C32ATM-ND	CMOS Quad RS-422 Receiver*	16-SOIC	1.89	1.53	1.38
DS26LS31CM-ND	Quad High Speed Differential Line Driver*	16-SOIC	1.65	1.32	1.16
DS26LS31CN-ND	Quad High Speed Differential*	16-Dip	1.92	1.55	1.40
DS26LS32ACM-ND	Quad Differential Line Receiver*	16-SOIC	1.61	1.30	1.17
DS26LS32ACN-ND	Quad Differential Line Receiver*	16-Dip	2.17	1.75	1.58
DS26LS32CM-ND	Quad Differential Line Receiver*	16-SOIC	1.65	1.32	1.16

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(Continued)

National Semiconductor Digi-Reel® (Cont.) INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS26LS32CN-ND	Quad Differential Line Receiver*	16-Dip	1.98	1.60	1.44
DS26LV31TM-ND	3V, Enhanced Quad CMOS Differential Line Driver*	16-SOIC	1.92	1.55	1.40
DS26LV32ATM-ND	3V, Enhanced Quad CMOS Differential Line Receiver*	16-SOIC	1.92	1.55	1.40
DS32EL0124SQECT-ND	125MHz~312.5MHz Deserializer with DDR LVDS Parallel*	48-LLP	21.85	18.53	17.10
DS32EL0124SQETR-ND	125MHz~312.5MHz Deserializer with DDR LVDS Parallel*	48-LLP	3681.25/250		
DS32EL0421SQECT-ND	125MHz~312.5MHz Serializer DDR LVDS Parallel* **NEW!**	48-LLP	21.85	18.53	17.10
DS32EL0421SQETR-ND	125MHz~312.5MHz Serializer DDR LVDS Parallel* **NEW!**	48-LLP	3918.75/250		
DS32ELX0124SQECT-ND	125MHz~312.5MHz Deserializer DDR LVDS Parallel*	48-LLP	24.80	22.32	20.46
DS32ELX0124SQETR-ND	125MHz~312.5MHz Deserializer DDR LVDS Parallel*	48-LLP	4495.00/250		
DS32ELX0421SQECT-ND	125MHz~312.5MHz Serializer DDR LVDS Parallel* **NEW!**	48-LLP	24.80	22.32	20.46
DS32ELX0421SQETR-ND	125MHz~312.5MHz Serializer DDR LVDS Parallel* **NEW!**	48-LLP	4495.00/250		
DS32EV100SDCT-ND	Programmable Single Equalizer*	14-LLP	7.35	6.03	5.44
DS32EV100SDTR-ND	Programmable Single Equalizer*	14-LLP	3969.00/1,000		
DS32EV400SQCT-ND	Programmable Quad Equalizer*	48-LLP	13.66	11.59	10.70
DS32EV400SQTR-ND	Programmable Quad Equalizer*	48-LLP	1747.75/250		
DS34C86TM-ND	Quad CMOS Differential Line Receiver*	16-SOIC	1.82	1.47	1.33
DS34C86TMXTR-ND	Quad CMOS Differential Line Receiver	16-SOIC	1985.00/2,500		
DS34C87TM-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1.55	1.25	1.13
DS34C87TMXTR-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1687.50/2,500		
DS34LV86TM-ND	3V, Enhanced Quad CMOS Differential Line Receiver*	16-SOIC	2.57	2.08	1.87
DS34LV87TM-ND	Enhanced Quad CMOS Differential Line Driver*	16-SOIC	2.37	1.92	1.73
DS36C200M-ND	Dual High Speed Bi-Directional Differential Transceiver	14-SOIC	4.03	3.24	2.96
DS36C278M-ND	Low Power Multipoint EIA-RS-485 Transceiver*	8-SOIC	2.95	2.38	2.14
DS36C278TM-ND	Multipoint EIA Low Power Transceiver*	8-SOIC	2.51	2.03	1.83
DS36C279M-ND	Low Power EIA-RS-485 Transceiver with Sleep Mode*	8-SOIC	2.88	2.32	2.12
DS36C280M-ND	Slew Rate Controlled CMOS EIA-RS-485 Transceiver*	8-SOIC	2.88	2.32	2.12
DS64BR401SQECT-ND	6.4Gbps Quad Transceiver* **NEW!**	54-LLP	21.40	19.26	17.66
DS64BR401SQETR-ND	6.4Gbps Quad Transceiver* **NEW!**	54-LLP	3878.75/250		
DS64EV100SDCT-ND	Programmable Single Equalizer*	14-LLP	13.49	11.35	10.43
DS64EV100SDTR-ND	Programmable Single Equalizer*	14-LLP	8153.00/1,000		
DS89C21TM-ND	Differential CMOS Line Driver/Receiver Pair*	8-SOIC	1.77	1.43	1.29
DS89C386TMEA-ND	12-Channel CMOS Differential Line Receiver*	48-SSOP	10.43	8.55	7.72
DS89C387TMEA-ND	12-Channel CMOS Differential Line Driver*	48-SSOP	10.43	8.55	7.72
DS90LV049HMTXCT-ND	High Temp. 3V LVDS Dual Line Driver/Receiver Pair*	16-TSSOP	3.01	2.33	2.11
DS90LV049QMT-ND	LVDS Dual Diff. Line Driver/Receiver Pair*	16-TSSOP	3.00	2.43	2.19
DS90LV049TMT-ND	3V LVDS Dual Line Driver with Dual Line Receiver*	16-TSSOP	2.51	2.03	1.83
DS485M-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-SOIC	2.39	1.93	1.74
DS485N-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-Dip	2.82	2.28	2.05
DS485TM-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-SOIC	2.42	1.95	1.76
DS485TN-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-Dip	2.83	2.28	2.08
DS2003CM-ND	High Current High Voltage Darlington Driver*	16-SOIC	1.38	1.11	.97
DS2003CMXCT-ND	High Current High Voltage Darlington Driver*	16-SOIC	1.49	1.18	1.07
DS2003CMXTR-ND	High Current High Voltage Darlington Driver*	16-SOIC	1375.00/2,500		
DS3486M-ND	RS422/423 Quad Line Receiver*	16-SOIC	1.47	1.18	1.03
DS3487M-ND	Quad Differential Line Driver*	16-SOIC	1.72	1.38	1.21
DS3658N-ND	Quad High Low Current Peripheral Driver*	16-Dip	4.14	3.33	3.03
DS3668N/NOPB-ND	Quad Fault Protect Peripheral Driver*	16-Dip	4.06	3.26	2.97
DS3691M-ND	RS422/423 Line Driver*	16-SOIC	1.95	1.58	1.42
DS3695AM-ND	Multipoint RS485/RS422 Transceiver*	8-SOIC	1.79	1.44	1.30
DS3695AMXCT-ND	Multipoint RS485/RS422 Transceiver* **NEW!**	8-SOIC	2.02	1.56	1.42
DS3695AMXTR-ND	Multipoint RS485/RS422 Transceiver*	8-SOIC	1945.00/2,500		
DS3695ATM-ND	Multipoint RS485/422 Transceiver*	8-SOIC	3.06	2.47	2.22
DS3695N-ND	Multipoint RS485/422 Transceiver*	8-Dip	2.10	1.69	1.53
DS3695TN-ND	Multipoint RS485/422 Transceiver*	8-Dip	1.92	1.55	1.40
DS8921AM-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.72	1.38	1.21
DS8921ATM-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.72	1.38	1.21
DS8921M-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.61	1.29	1.13
DS8921N-ND	Differential Line Driver/Receiver Pair*	8-Dip	1.64	1.33	1.20
DS8922AM-ND	RS422 Dual Differential Line Driver/Receiver Pair*	16-SOIC	1.95	1.58	1.42
DS8923AM-ND	RS422 Dual Differential Line Driver/Receiver Pair* **NEW!**	16-SOIC	1.68	1.36	1.23
DS8923AMXCT-ND	RS422 Dual Differential Line Driver/Receiver Pair* **NEW!**	16-SOIC	2.21	1.71	1.55
DS8923AMXTR-ND	RS422 Dual Differential Line Driver/Receiver Pair	16-SOIC	2127.50/2,500		
DS8923AN-ND	RS422 Dual Differential Line Driver/Receiver Pair* **NEW!**	16-Dip	2.16	1.75	1.58
DS9637ACM-ND	RS423 Dual Receiver*	8-SOIC	1.72	1.38	1.21
DS9638CM-ND	RS422 Dual High Speed Differential Line Driver*	8-SOIC	1.61	1.29	1.13
DS14185WM-ND	EIA/TIA-232 3 Driver x 5 Receiver*	20-SOIC	2.03	1.64	1.48
DS36276M-ND	Failsafe Multipoint Transceiver*	8-SOIC	2.79	2.25	2.03
DS36277TMXTR-ND	Dominant Mode Multipoint Transceiver*	8-SOIC	3072.50/2,500		
DS36954M-ND	Quad Differential Bus Transceiver*	20-SOIC	13.60	11.44	10.51
DS75176BM-ND	Multipoint RS485/422 Transceiver*	8-SOIC	1.69	1.35	1.19
DS75176BMXCT-ND	Multipoint RS485/422 Transceiver	8-SOIC	1.83	1.45	1.31
DS75176BMXTR-ND	Multipoint RS485/422 Transceiver	8-SOIC	1687.50/2,500		
DS75176BN-ND	Multipoint RS485/422 Transceiver*	8-Dip	1.86	1.49	1.31
DS75176BTM-ND	Multipoint RS485/422 Transceiver*	8-SOIC	1.62	1.30	1.14
DS75176BTN-ND	Multipoint RS485/422 Transceiver*	8-Dip	1.62	1.31	1.18
DS92001TLDCT-ND	3.3V B/LVDS-BLVDS Buffer*	8-LLP	3.24	2.50	2.27
DS92001TLDTR-ND	3.3V B/LVDS-BLVDS Buffer*	8-LLP	1341.00/1,000		
DS92001TMA-ND	3.3V B/LVDS-BLVDS Buffer*	8-SOIC	2.87	2.32	2.09
DS96174CN-ND	RS485/422 Quad Differential Driver*	16-Dip	4.62	3.72	3.39
DS96175CN-ND	RS485/422 Quad Differential Receiver*	16-Dip	5.85	4.71	4.29
DS96176CN-ND	RS485 Transceiver*	8-Dip	2.91	2.35	2.12
LF298M-ND	Monolithic Sample and Hold Circuit*	14-SOIC	3.47	2.79	2.55
LF398AN-ND	Monolithic Sample and Hold Circuit*	8-Dip	3.39	2.73	2.49
LF398H-ND	Monolithic Sample and Hold Circuit*	TO-99-8	8.95	7.34	6.63
LF398M-ND	Monolithic Sample and Hold Circuit*	14-SOIC	1.77	1.43	1.29
LF398N-ND	Monolithic Sample and Hold Circuit*	8-Dip	1.67	1.35	1.22
LM12H458CIV-ND	12-Bit + Sign DAS with Self-Calibration*	44-PLCC	27.40	23.29	21.58
LM231AN-ND	Precision Voltage-to-Frequency Converter*	8-Dip	11.15	9.15	8.26
LM231N-ND	Precision Voltage-to-Frequency Converter*	8-Dip	6.55	5.38	4.85
LM331AN-ND	Precision Voltage-to-Frequency Converter*	8-Dip	8.93	7.32	6.61
LM331N-ND	Precision Voltage-to-Frequency Converter*	8-Dip	2.80	2.25	2.05
LM395T-ND	Ultra Reliable High Gain Power Transistor*	TO-220-3	4.48	3.60	3.28
LM567CM/NOPB-ND	Tone Decoder Phase Lock Loop*	8-SOIC	1.67	1.35	1.22
LM567CN-ND	Tone Decoder Phase Lock Loop*	8-Dip	1.67	1.35	1.22
LM2480NA-ND	80V Triple Bias Clamp*	8-Dip	1.51	1.21	1.06
LM2907M-8-ND	Frequency-to-Voltage Converter*	8-SOIC	1.86	1.50	1.35
LM2907N-ND	Frequency-to-Voltage Converter*	14-Dip	2.02	1.63	1.47
LM2907N-8-ND	Frequency-to-Voltage Converter*	8-Dip	1.86	1.50	1.35
LM2917M-ND	Frequency-to-Voltage Converter*	14-SOIC	2.02	1.63	1.47
LM2917N-ND	Frequency-to-Voltage Converter*	14-Dip	2.11	1.70	1.53
LM2917N-8-ND	Frequency-to-Voltage Converter*	8-Dip	2.11	1.70	1.53

National Semiconductor Digi-Reel® (Cont.) INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4550BVH-ND	AC '97 Rev 2.1 Multi-Ch. Audio Codec w/Stereo Headphone Amp, Sample Rate Conv./National 3D Sound*	48-LQFP	7.85	6.44	5.81
LM9044V-ND	Lambda Sensor Interface Amplifier*	20-PLCC	4.28	3.45	3.14
LM9061M-ND	MOSFET Driver with Loss Protection	8-SOIC	2.08	1.68	1.51
LM9833CCVJD-ND	48-Bit, Color 1200dpi USB Image Scanner	100-TQFP	14.04	11.81	10.85
LM97593VH-ND	Dual ADC/Digital Tuner/AGC*	128-PQFP	59.84	52.80	50.16
LM98555CCMH-ND	CCD Driver*	64-TSSOP	11.65	9.56	8.63
LM98714BCMT-ND	3-Channel, 16-Bit, 45MSPS Digital Copier AFE*	48-TSSOP	32.40	27.54	25.52
LM98722CCMT-ND	3-Channel, 16-Bit, 45MSPS Analog Front End* **NEW!**	56-TSSOP	20.80	17.68	16.38
LM98725CCMT-ND	3-Channel, 16-Bit, 81MSPS Timing Generator* **NEW!**	56-TSSOP	28.60	24.31	22.53
LMH0040SQECT-ND	HD/SD/DVB-ASI/SDI Serializer/Cable Driver*	48-LLP	37.60	33.84	31.02
LMH0040SQETR-ND	HD/SD/DVB-ASI/SDI Serializer/Cable Driver*	48-LLP	6815.00/250		
LMH0070SQECT-ND	HD/SD/DVB-ASI/SDI Serializer/Cable Driver*	48-LLP	26.80	22.78	21.11
LMH0070SQETR-ND	HD/SD/DVB-ASI/SDI Serializer/Cable Driver*	48-LLP	4857.50/250		
LMH0302SQECT-ND	HD/SD SDI Cable Driver* **NEW!**	16-LLP	12.48	10.37	9.42
LMH0302SQETR-ND	HD/SD SDI Cable Driver* **NEW!**	16-LLP	2001.75/250		
LMH0303SQECT-ND	HD/SD SDI Cable Driver*	16-LLP	12.28	10.42	9.62
LMH0303SQETR-ND	HD/SD SDI Cable Driver*	16-LLP	2069.25/250		
LMH0307SQECT-ND	HD/SD SDI Dual Output Cable Driver*	16-LLP	14.44	12.25	11.31
LMH0307SQETR-ND	HD/SD SDI Dual Output Cable Driver*	16-LLP	2433.50/250		
LMH6525SPCT-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	5.37	4.39	3.94
LMH6525SPTR-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	2506.00/1,000		
LMH6526SPCT-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	5.37	4.39	3.94
LMH730227-ND	Op Amp Evaluation Board for SOIC* **NEW!**	—	18.70	—	—
LMH730275-ND	Triple High Speed SSOP Op Amp Evaluation Board*	—	18.70	—	—
LMH730276-ND	4:1 Multiplexer Evaluation Board	—	18.70	—	—
LMH730277-ND	2:1 Multiplexer Evaluation Board	—	11.31	—	—
MF10CCN-ND	General Purpose Dual Active Filter*	20-Dip	5.40	4.35	3.96
SCANSTA101SM-ND	Low Voltage IEEE 1149.1 STA Master*	49-FBGA	17.78	14.95	13.74
SCANSTA111MT-ND	SCAN Bridge, Multidrop Addressable JTAG Port*	48-TSSOP	10.13	8.31	7.50
SCANSTA111SM-ND	SCAN Bridge, Multidrop Addressable JTAG Port*	49-FBGA	10.80	8.86	8.00
SCANSTA112SM-ND	7-Port Multidrop JTAG Mux*	100-FBGA	11.92	10.03	9.22
SCANSTA112VS-ND	7-Port Multidrop JTAG Mux*	100-TQFP	11.92	10.03	9.22
SCANSTA476TSDCT-ND	8-Input IEEE 1149.1 Analog Voltage Monitor*	16-LLP	6.42	5.25	4.71
SCANSTA476TSDTR-ND	8-Input IEEE 1149.1 Analog Voltage Monitor*	16-LLP	2996.00/1,000		
SPUSI2-ND	Data Capture Board*	—	90.44	—	—
TP3070V-G-ND	COMBO®II Programmable PCM CODEC/Filter* **NEW!**	28-PLCC	10.20	8.37	7.55
TP3094V-ND	COMBO® Quad PCM CODEC/Filter* **NEW!**	44-PLCC	11.50	9.43	8.51

National Semiconductor Digi-Reel® INTERFACE — DISPLAY

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM1881M-ND	Video Synchronous Separator	8-SOIC	3.11	2.50	2.28
LM1881MXCT-ND	Video Synchronous Separator **NEW!**	8-SOIC	3.33	2.72	2.45
LM1881MXTR-ND	Video Synchronous Separator	8-SOIC	3690.00/2,500		
LM1881N-ND	Video Synchronous Separator	8-Dip	3.11	2.50	2.28
LM2422TE-ND	Mono 220V, 3-Channel, 30MHz CRT DTV Driver	TO-220-11	9.58	7.86	7.09
LM2506GRCT-ND	18-Bit RGB Display Interface Serializer/Deserializer **NEW!**	49-µArray	3.21	2.63	2.36
LM2506GRTR-ND	18-Bit RGB Display Interface Serializer/Deserializer **NEW!**	49-µArray	1499.00/1,000		
LM2512ASMCT-ND	MPL-1, 24-Bit RGB Display Interface Serializer	49-UFBGA	6.68	5.55	5.04
LM2512ASMTR-ND	MPL-1, 24-Bit RGB Display Interface Serializer	49-UFBGA	3402.00/1,000		
LM2512ASNCT-ND	MPL-1, 24-Bit RGB Display Interface Serializer	49-LLP	6.68	5.55	5.04
LM2512ASNTR-ND	MPL-1, 24-Bit RGB Display Interface Serializer	49-LLP	1071.00/250		
LM2622MM-ADJCT-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter	8-MSOP	3.03	2.34	2.12
LM2622MM-ADJTR-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter	8-MSOP	1254.00/1,000		
LM2700LD-ADJCT-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Conv.	14-LLP	4.89	4.00	3.59
LM2700LD-ADJTR-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Conv.	14-LLP	2282.00/1,000		
LM2700MT-ADJ-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Conv.	14-TSSOP	4.56	3.67	3.35
LM3914N-1-ND	Dot/Bar Display Driver	18-Dip	2.62	2.11	1.90
LM3914V-ND	Dot/Bar Graph Display Driver	20-PLCC	4.31	3.47	3.16
LM3914VXCT-ND	Dot/Bar Graph Display Driver	20-PLCC	4.62	3.78	3.39
LM3914VXTR-ND	Dot/Bar Graph Display Driver	20-PLCC	2156.00/1,000		
LM3915N-1-ND	Dot/Bar Display Driver	18-Dip	2.85	2.30	2.07
LM3916N-1-ND	Dot/Bar Display Driver	18-Dip	2.64	2.13	1.92
LM4308GRCT-ND	MPL-2 18-Bit CPU Display Interface	49-µArray	4.65	3.74	3.41
LM4308GRTR-ND	MPL-2 18-Bit CPU Display Interface	49-µArray	2324.00/1,000		
LM4308SQCT-ND	MPL-2 18-Bit CPU Display Interface	40-LLP	4.65	3.74	3.41
LM4308SQTR-ND	MPL-2 18-Bit CPU Display Interface	40-LLP	2324.00/1,000		
LMF100CIWM-ND	High Performance Dual Switched Capacitor Filter	20-SOIC	6.78	5.45	4.97
LMH0002MA-ND	SMPTE 292M/259M Serial Digital Cable Driver	8-SOIC	9.55	7.84	7.07
LMH0002SQCT-ND	SMPTE 292M/259M Serial Digital Cable Driver	16-LLP	10.12	8.41	7.64
LMH0002SQTR-ND	SMPTE 292M/259M Serial Digital Cable Driver	16-LLP	1623.50/250		
LMH0002TMA-ND	SMPTE 292M/259M Serial Digital Cable Driver	8-SOIC	9.55	7.84	7.07
LMH0024MA-ND	3.3V SMPTE 259M/344M Adaptive Cable Equalizer	16-SOIC	17.47	14.69	13.50
LMH0030VS-ND	SMPTE 292M/259M Digital Video Serializer	64-TQFP	42.00	36.32	34.05
LMH0031VS-ND	SMPTE 292M/259M Digital Video Deserializer/Descrambler	64-TQFP	41.81	36.16	33.90
LMH0034MA-ND	SMPTE 292M/259M Adaptive Cable Equalizer	16-SOIC	27.60	23.46	21.74
LMH0036SQE/NOPBCT-ND	SD SDI Reclocker with 4:1 Input Mux	48-LLP	24.60	22.14	20.30
LMH0036SQE/NOPBTR-ND	SD SDI Reclocker with 4:1 Input Mux	48-LLP	4458.75/250		
LMH0044SQCT-ND	SMPTE 292M/259M Adaptive Cable Equalizer	16-LLP	26.80	24.12	22.11
LMH0044SQTR-ND	SMPTE 292M/259M Adaptive Cable Equalizer	16-LLP	17420.00/1,000		
LMH0046MH-ND	HD/SD SDI Reclocker, Dual Diff. Outputs	20-TSSOP	36.00	30.60	28.35
LMH0056SQCT-ND	HD/SD SDI Reclocker with 4:1 Input Multiplexer	48-LLP	39.00	35.10	32.18
LMH0056SQTR-ND	HD/SD SDI Reclocker with 4:1 Input Multiplexer	48-LLP	7068.75/250		
LMH0051SQECT-ND	SDI Deserializer with LVDS	48-LLP	33.20	29.88	27.39
LMH0051SQETR-ND	SDI Deserializer with LVDS	48-LLP	6017.50/250		
LMH0026MH-ND	HD/SD SDI Reclocker, Dual Diff. Outputs **NEW!**	20-TSSOP	23.00	19.55	18.12
LMH0041SQCT-ND	SDI Deserializer with LVDS **NEW!**	48-LLP	39.00	35.10	32.18
LMH0041SQTR-ND	SDI Deserializer with LVDS **NEW!**	48-LLP	25350.00/1,000		
LMH0050SQECT-ND	SDI Serializer and Cable Driver with LVDS **NEW!**	48-LLP	33.20	29.88	27.39
LMH0050SQETR-ND	SDI Serializer and Cable Driver with LVDS **NEW!**	48-LLP	6017.50/250		
LMH0071SQECT-ND	SDI Deserializer with LVDS	48-LLP	28.20	25.38	23.27
LMH0071SQETR-ND	SDI Deserializer with LVDS	48-LLP	5111.25/250		
LMH0074SQECT-ND	SMPTE 259M/344M Adaptive Cable Equalizer **NEW!**	16-LLP	18.26	15.49	14.30
LMH0074SQETR-ND	SMPTE 259M/344M Adaptive Cable Equalizer **NEW!**	16-LLP	3076.75/250		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

INTERFACE — DISPLAY

(Cont.)

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMH0202MT-ND	Dual SMPTE 292M/259M Serial Digital Cable Driver	16-TSSOP	14.30	12.03	11.05
LMH0307GRECT-ND	3Gbps HD, SD Cable Driver ***NEW!***	25-µArray	14.44	12.25	11.31
LMH0307GRETR-ND	3Gbps HD, SD Cable Driver ***NEW!***	25-µArray	2433.50/250		
LMH0340SQECT-ND	3Gbps HD, SD, DVB-ASI SDI Serializer/Cable Driver	48-LLP	42.56	37.19	34.72
LMH0340SQETR-ND	3Gbps HD, SD, DVB-ASI SDI Serializer/Cable Driver	48-LLP	7840.00/250		
LMH0341SQECT-ND	3Gbps HD, SD, DVB-ASI SDI Deserializer with Loopthrough and LVDS Interface	48-LLP	44.08	38.52	35.96
LMH0341SQETR-ND	3Gbps HD, SD, DVB-ASI SDI Deserializer with Loopthrough and LVDS Interface	48-LLP	8120.00/250		
LMH0344GRECT-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	25-µArray	28.60	25.74	23.60
LMH0344GRETR-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	25-µArray	5183.75/250		
LMH0344SQECT-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	16-LLP	28.60	25.74	23.60
LMH0344SQETR-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	16-LLP	5183.75/250		
LMH0346SQE/NOPBCT-ND	3Gbps HD/SD SDI Reclocker with Dual Diff. Out	24-LLP	41.04	35.86	33.48
LMH0346SQE/NOPBTR-ND	3Gbps HD/SD SDI Reclocker with Dual Diff. Out	24-LLP	7560.00/250		
LMH0356SQECT-ND	3Gbps HD/SD SDI Reclocker ***NEW!***	48-LLP	42.56	37.19	34.72
LMH0356SQETR-ND	3Gbps HD/SD SDI Reclocker ***NEW!***	48-LLP	7840.00/250		
LMH0356SQE-40CT-ND	3Gbps HD/SD SDI Reclocker ***NEW!***	40-LLP	41.44	35.84	33.60
LMH0356SQE-40TR-ND	3Gbps HD/SD SDI Reclocker ***NEW!***	40-LLP	7840.00/250		
LMH0384SQECT-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	16-LLP	38.00	33.20	31.00
LMH0384SQETR-ND	3Gbps HD/SD SDI Adaptive Cable Equalizer ***NEW!***	16-LLP	7000.00/250		
LMH1251MT-ND	YPBPR to RGBHV Converter/2:1 Video Switch	24-TSSOP	11.75	9.64	8.70
LMH1980MMCT-ND	Auto-Detect SD/HD/PC Video Sync Separator	10-MSOP	5.52	4.51	4.05
LMH1980MMTR-ND	Auto-Detect SD/HD/PC Video Sync Separator	10-MSOP	2576.00/1,000		
LMH1981MT-ND	Multi-Format Video Sync Separator	14-TSSOP	12.23	10.03	9.05
LMH1982SQECT-ND	Multi-Rate Video Clock Generator w/ Genlock	32-LLP	31.40	28.26	25.91
LMH1982SQETR-ND	Multi-Rate Video Clock Generator w/ Genlock	32-LLP	5691.25/250		
MF10CCWM-ND	Univ. Monolithic Dual Switched Cap. Filter ***NEW!***	20-SOIC	3.51	2.82	2.57
MM5452N-ND	Liquid Crystal Display Driver, 32 Segments ***NEW!***	40-Dip	6.58	5.29	4.82
MM5452V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	6.66	5.36	4.88
MM5453V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	5.88	4.73	4.31
MM5483N-ND	Liquid Crystal Display Driver, 31 Segments	40-Dip	6.78	5.45	4.97
MM145453V-ND	Liquid Crystal Display Driver, 33 Segments	44-PLCC	6.27	5.04	4.60
SCAN15MB200TSQCT-ND	Dual, 1.5Gbps 2:1/1:2 LVDS Mux/Buffer	48-LLP	12.46	10.34	9.40
SCAN15MB200TSQTR-ND	Dual, 1.5Gbps 2:1/1:2 LVDS Mux/Buffer	48-LLP	1997.50/250		
SCAN90CP02VY-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	32-LQFP	6.98	5.72	5.17
SCAN90CP02SPCT-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	28-LLP	7.39	6.14	5.58
SCAN90CP02SPTR-ND	1.5Gbps 2x2 LVDS Crosspoint Switch	28-LLP	3767.00/1,000		
SCAN92LV090VEH-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-LQFP	10.20	8.37	7.55
SCAN12100TYA-ND	1228.8 and 614.4Mbps CPRI SerDes	100-TQFP	18.81	15.82	14.54
SD303EVK-ND	Evaluation Board for LMH0303 Cable Driver ***NEW!***	—	212.50	—	—
SD307EVK-ND	Evaluation Board for LMH0307 Cable Driver ***NEW!***	—	212.50	—	—
SD384EVK-ND	Eval. Board for LMH0384 Cable Equalizer ***NEW!***	—	212.50	—	—

INTERFACE — LVDS AND CML

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS08MB200TSQCT-ND	Dual 800mbps 1:2/2:1 LVDS Mux/Buffer	48-LLP	9.06	7.53	6.84
DS08MB200TSQTR-ND	Dual 800mbps 1:2/2:1 LVDS Mux/Buffer	48-LLP	1453.50/250		
DS15BA101SDCT-ND	1.5Gbps Diff. Buffer w/ Adj. Output Voltage	8-LLP	5.70	4.66	4.18
DS15BA101SDTR-ND	1.5Gbps Diff. Buffer w/ Adj. Output Voltage	8-LLP	2660.00/1,000		
DS15BR400TSQCT-ND	4-Ch. LVDS Buffer/Repeater with Pre-Emphasis	32-LLP	9.25	7.59	6.85
DS15BR400TSQTR-ND	4-Ch. LVDS Buffer/Repeater with Pre-Emphasis	32-LLP	4995.00/1,000		
DS15BR400TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis	48-TQFP	9.25	7.59	6.85
DS15BR401TSQCT-ND	4-Ch. LVDS Buffer/Repeater with Pre-Emphasis	32-LLP	9.81	8.14	7.40
DS15BR401TSQTR-ND	4-Ch. LVDS Buffer/Repeater with Pre-Emphasis	32-LLP	4995.00/1,000		
DS15BR401TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis	48-TQFP	9.25	7.59	6.85
DS15EA101SQCT-ND	0.15 to 1.5Gbps Adaptive Cable Equalizer	16-LLP	12.01	10.18	9.40
DS15EA101SQTR-ND	0.15 to 1.5Gbps Adaptive Cable Equalizer	16-LLP	6943.00/1,000		
DS15MB200TSQCT-ND	Dual 1.5Gbps 2:1/1:2 LVDS Mux/Buffer	48-LLP	12.46	10.34	9.40
DS15MB200TSQTR-ND	Dual 1.5Gbps 2:1/1:2 LVDS Mux/Buffer	48-LLP	1997.50/250		
DS16EV5110ASQECT-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables	48-LLP	12.08	10.04	9.12
DS16EV5110ASQETR-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables	48-LLP	1938.00/250		
DS16EV5110SQCT-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables	48-LLP	12.08	10.04	9.12
DS16EV5110SQTR-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables	48-LLP	1938.00/250		
DS22EV5110SQECT-ND	DVI/HDMI Ext. Reach Equalizer with Retimer ***NEW!***	48-LLP	14.21	12.06	11.13
DS22EV5110SQETR-ND	DVI/HDMI Ext. Reach Equalizer with Retimer ***NEW!***	48-LLP	2394.75/250		
DS25BR110TSDCT-ND	3.125Gbps LVDS Buffer ***NEW!***	8-LLP	6.99	5.71	5.13
DS25BR110TSDTR-ND	3.125Gbps LVDS Buffer ***NEW!***	8-LLP	3262.00/1,000		
DS25BR204TSQCT-ND	3.125Gbps 1:4 LVDS Repeater	40-LLP	15.85	13.44	12.41
DS25BR204TSQTR-ND	3.125Gbps 1:4 LVDS Repeater	40-LLP	2670.00/250		
DS25BR400TSQCT-ND	Quad 2.5Gbps Transceiver	60-LLP	14.54	12.33	11.38
DS25BR400TSQTR-ND	Quad 2.5Gbps Transceiver	60-LLP	2449.00/250		
DS25BR440TSQCT-ND	3.125Gbps Quad LVDS Buffer	40-LLP	11.91	10.11	9.33
DS25BR440TSQTR-ND	3.125Gbps Quad LVDS Buffer	40-LLP	2007.25/250		
DS34RT5110SQECT-ND	10.2Gbps DVI/HDMI Retimer with Input Equalization ***NEW!***	48-LLP	19.57	16.60	15.32
DS34RT5110SQETR-ND	10.2Gbps DVI/HDMI Retimer with Input Equalization ***NEW!***	48-LLP	3297.75/250		
DS38EP100SDCT-ND	1 to 5Gbps, Power Saver Equalizer for Backplanes	6-LLP	3.57	2.92	2.62
DS38EP100SDTR-ND	1 to 5Gbps, Power Saver Equalizer for Backplanes	6-LLP	1666.00/1,000		
DS40MB200SQCT-ND	Dual 4Gb/s 1:2 Mux/Buffer	48-LLP	16.38	13.89	12.82
DS40MB200SQTR-ND	Dual 4Gb/s 1:2 Mux/Buffer	48-LLP	2759.00/250		
DS42MB100TSQCT-ND	4.25Gb/s 1:2 Mux/Buffer	36-LLP	13.00	11.02	10.17
DS42MB100TSQTR-ND	4.25Gb/s 1:2 Mux/Buffer	36-LLP	2189.50/250		
DS42MB200TSQCT-ND	Dual 4.25Gb/s 2:1/1:2 Mux/Buffer ***NEW!***	48-LLP	17.37	14.73	13.59
DS42MB200TSQTR-ND	Dual 4.25Gb/s 2:1/1:2 Mux/Buffer ***NEW!***	48-LLP	2925.75/250		
DS50PCI401SQECT-ND	2.5Gb/s 4-Lane PCI Express Transceiver ***NEW!***	54-LLP	19.55	16.58	15.30
DS50PCI401SQETR-ND	2.5Gb/s 4-Lane PCI Express Transceiver ***NEW!***	54-LLP	3293.75/250		
DS90C031BTM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	2.91	2.34	2.14
DS90C031TM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	2.91	2.34	2.14
DS90C032BTM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	2.67	2.15	1.94
DS90C032TM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	2.67	2.15	1.94
DS90C032TMXCT-ND	LVDS Quad CMOS Differential Line Receiver ***NEW!***	16-SOIC	3.01	2.33	2.11
DS90C032TMXTR-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	2902.50/2,500		
DS90C365AMT-ND	LVDS Programmable Transmitter ***NEW!***	48-TSSOP	6.53	5.36	4.83
DS90C401M-ND	LVDS Dual Low Volt. Differential Signaling Driver	8-SOIC	2.67	2.15	1.96
DS90C402M-ND	LVDS Dual Low Volt. Differential Signaling Receiver	8-SOIC	2.80	2.25	2.05
DS90C3201VS-ND	LVDS Dual FPD-Link Transmitter ***NEW!***	128-TQFP	10.70	8.78	7.92
DS90C3202VS-ND	LVDS Dual FPD-Link Receiver ***NEW!***	128-TQFP	10.70	8.78	7.92
DS90CP02SPCT-ND	2x2 LP 1.5Gbps LVDS Crosspoint Switch	28-LLP	7.00	5.81	5.28
DS90CP02SPTR-ND	2x2 LP 1.5Gbps LVDS Crosspoint Switch	28-LLP	3564.00/1,000		
DS90CP04TLQCT-ND	4x4 LP 2.5Gbps LVDS Digital Crosspoint Switch	32-LLP	13.09	10.87	9.88
DS90CP04TLQTR-ND	4x4 LP 2.5Gbps LVDS Digital Crosspoint Switch	32-LLP	2099.50/250		
DS90CP22M-8-ND	2x2 800mbps LVDS Crosspoint Switch	16-SOIC	6.78	5.45	4.97

INTERFACE — LVDS AND CML

(Cont.)

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS90CP22MT-ND	2x2 800mbps LVDS Crosspoint Switch	16-TSSOP	6.78	5.45	4.97
DS90CR286AQMT-ND	LVDS Receiver 28-Bit Channel Link ***NEW!***	56-TSSOP	11.30	9.27	8.37
DS90LT012AHMFCT-ND	3V LVDS Differential Line Receiver	SOT-23-5	1.82	1.41	1.28
DS90LT012AHMFTR-ND	3V LVDS Differential Line Receiver	SOT-23-5	754.00/1,000		
DS90LT012AQMFECT-ND	3V, Auto, LVDS Single Diff. Line Receiver ***NEW!***	SOT-23-5	2.06	1.60	1.45
DS90LT012AQMFETR-ND	3V, Auto, LVDS Single Diff. Line Receiver ***NEW!***	SOT-23-5	294.50/250		
DS90LT012ATMFCT-ND	3V LVDS Single Differential Line Receiver	SOT-23-5	1.82	1.41	1.28
DS90LT012ATMFTR-ND	3V LVDS Single Differential Line Receiver	SOT-23-5	754.00/1,000		
DS90LV001TLDCT-ND	3.3V LVDS-LVDS Buffer	8-LLP	2.66	2.06	1.87
DS90LV001TLDTR-ND	3.3V LVDS-LVDS Buffer	8-LLP	1102.00/1,000		
DS90LV001TM-ND	3.3V LVDS-LVDS Buffer	8-SOIC	2.36	1.90	1.71
DS90LV004TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis	48-TQFP	7.85	6.44	5.81
DS90LV011AHMFCT-ND	High Temp. 3V LVDS Differential Line Driver	SOT-23-5	1.75	1.38	1.25
DS90LV011AHMFTR-ND	High Temp. 3V LVDS Differential Line Driver	SOT-23-5	690.00/1,000		
DS90LV011AQMFECT-ND	3.3V, Automotive LVDS Differential Driver ***NEW!***	SOT23-5	1.80	1.39	1.26
DS90LV011AQMFETR-ND	3.3V, Automotive LVDS Differential Driver ***NEW!***	SOT23-5	256.50/250		
DS90LV011ATMFCT-ND	LVDS 3V Single High Speed Differential Driver	SOT-23-5	1.52	1.20	1.08
DS90LV011ATMFTR-ND	LVDS 3V Single High Speed Differential Driver	SOT-23-5	599.00/1,000		
DS90LV017ATM-ND	LVDS Single High Speed Differential Driver	8-SOIC	1.77	1.43	1.29
DS90LV018ATM-ND	LVDS 3V, Single CMOS Differential Line Receiver	8-SOIC	1.83	1.48	1.33
DS90LV019TM-ND	LVDS 3.3V or 5V Driver/Receiver	14-SOIC	2.97	2.39	2.18
DS90LV019TMTC-ND	LVDS 3.3V or 5V Driver/Receiver	14-TSSOP	2.97	2.39	2.18
DS90LV027AQMA-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.91	2.34	2.14
DS90LV027ATM-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.36	1.90	1.71
DS90LV027M-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.77	2.24	2.01
DS90LV028AHM-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-SOIC	2.88	2.32	2.12
DS90LV028AQMA-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-SOIC	3.58	2.88	2.63
DS90LV028ATLDCT-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	3.29	2.54	2.31
DS90LV028ATLDTR-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	1363.00/1,000		
DS90LV028ATM-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-SOIC	2.91	2.35	2.12
DS90LV031ATM-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	2.97	2.39	2.18
DS90LV031ATMTC-ND	LVDS 3V Quad CMOS Differential Line Driver	16-TSSOP	2.97	2.39	2.18
DS90LV032ATM-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-SOIC	3.05	2.46	2.24
DS90LV032ATMTC-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-TSSOP	3.05	2.46	2.24
DS90LV047ATM-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	3.25	2.61	2.38
DS90LV047ATMTC-ND	LVDS 3V Quad CMOS Differential Line Driver	16-TSSOP	3.25	2.61	2.38
DS90LV048ATM-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-SOIC	3.25	2.61	2.38
DS90LV048ATMTC/NOPB-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-TSSOP	3.25	2.61	2.38
DS90LV049HMT-ND	LVDS 3V Dual Line Driver w/ Dual Line Rcvr. ***NEW!***	16-TSSOP	2.67	2.15	1.94
DS90LV804TSQCT-ND	4-Channel, 800mbps LVDS Buffer/Repeater	32-LLP	6.84	5.68	5.16
DS90LV804TSQTR-ND	4-Channel, 800mbps LVDS Buffer/Repeater	32-LLP	3483.00/1,000		
DS92CK16TMTC-ND	BLVDS 3V, 1-to-6 Clock Buffer/Bus Transceiver	24-TSSOP	6.30	5.17	4.67
DS92LV010ATM-ND	Bus LVDS 3.3/5.0V Single Transceiver	8-SOIC	3.50	2.82	2.57
DS92LV040ATLQACT-ND	LVDS 4-Channel Bus Transceiver	44-LLP	8.80	7.31	6.64
DS92LV040ATLQATR-ND	LVDS 4-Channel Bus Transceiver	44-LLP	1411.00/250		
DS92LV090ATVEH-ND	LVDS 9-Channel Transceiver	64-LQFP	11.28	9.25	8.35
PowerWise®					
DS25CP104ATSQCT-ND	3.125Gbps LVDS Crosspoint Switch	40-LLP	16.40	13.91	12.84
DS25CP104ATSQTR-ND	3.125Gbps LVDS Crosspoint Switch	40-LLP	2763.00/250		
DS25BR100TSDCT-ND	3.125Gbps LVDS Buffer with Pre-Emphasis ***NEW!***	8-LLP	6.99	5.71	5.13
DS25BR100TSDTR-ND	3.125Gbps LVDS Buffer with Pre-Emphasis ***NEW!***	8-LLP	3262.00/1,000		
DS25BR120TSDCT-ND	3.125Gbps LVDS Buffer with Pre-Emphasis ***NEW!***	8-LLP	6.99	5.71	5.13
DS25BR120TSDTR-ND	3.125Gbps LVDS Buffer with Pre-Emphasis ***NEW!***	8-LLP	3262.00/1,000		
DS25BR150TSDCT-ND	3.125Gbps LVDS Repeater with Pre-Emphasis	8-LLP	6.12	5.00	4.49
DS25BR150TSDTR-ND	3.125Gbps LVDS Repeater with Pre-Emphasis	8-LLP	2856.00/1,000		
DS64EV400SQCT-ND	Programmable Quad Equalizer	48-LLP	22.80	20.52	18.81
DS64EV400SQTR-ND	Programmable Quad Equalizer	48-LLP	4132.50/250		
DS80EP100SDCT-ND	5 to 12.5Gbps, Power Saver Equalizer for Backplanes	6-LLP	3.72	3.04	2.73
DS80EP100SDTR-ND	5 to 12.5Gbps, Power Saver Equalizer for Backplanes	6-LLP	1736.00/1,000		

INTERFACE — SERIALIZER/DESERIALIZER

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS90C124IVS-ND	5-35MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	12.54	10.55	9.69
DS90C124QVS-ND	5-35MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	12.35	10.13	9.14
DS90C241IVS-ND	5-35MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	12.54	10.55	9.69
DS90C241QVS-ND	5-35MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	12.35	10.13	9.14
DS90C363BMT-ND	LVDS 3.3V, FPD Link 18-Bit, Transmitter* ***NEW!***	48-TSSOP	5.46	4.39	4.00
DS90C383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Transmitter*	56-TSSOP	7.90	6.48	5.85
DS90C385AMT-ND	+3.3V Prog. LVDS Transmitter 24-Bit FPD Link, 85MHz*	56-TSSOP	5.32	4.28	3.90
DS90C387AVJD-ND	Dual Pixel LVDS Display Interface*	100-TQFP	8.93	7.32	6.61
DS90C387VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA-OXGA*	100-TQFP	11.15	9.15	8.26
DS90CF363BMT-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Transmitter* ***NEW!***	48-TSSOP	6.66	5.36	4.88
DS90CF364MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Receiver	48-TSSOP	5.01	4.03	3.67
DS90CF364AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Receiver	48-TSSOP	6.53	5.36	4.83
DS90CF366MTD-ND	LVDS 3.3V, FPD Link-85MHz, 18-Bit, Receiver	48-TSSOP	8.08	6.63	5.98
DS90CF384AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver*	56-TSSOP	7.13	5.85	5.28
DS90CF384MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver*	56-TSSOP	5.71	4.59	4.19
DS90CF386MTD-ND	LVDS 3.3V, FPD Link-85MHz, 24-Bit, Receiver*	56-TSSOP	8.08	6.63	5.98
DS90CF388AVJD-ND	LVDS Dual Pixel Display Interface/FPD-Link*	100-TQFP	11.51	9.68	8.90
DS90CF388VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA/QXGA*	100-TQFP	11.70	9.60	8.66
DS90CF564MTD-ND	LVDS 5V, FPD Link 18-Bit, Receiver*	48-TSSOP	9.25	7.59	6.85
DS90CR215MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Transmitter*	48-TSSOP	8.80	7.22	6.52
DS90CR216AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver*	48-TSSOP	8.33	6.83	6.17
DS90CR216MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver*	48-TSSOP	7.13	5.85	5.28
DS90CR217MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz*	48-TSSOP	9.00	7.38	6.66
DS90CR218AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz*	48-TSSOP	7.13	5.85	5.28
DS90CR285MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter*	56-TSSOP	9.75	8.00	7.22
DS90CR286AMTD-ND	3.3V, Data Strobe LVDS Receiver 28-Bit Channel Link-66MHz*	56-TSSOP	9.75	8.00	7.22
DS90CR286MTD-ND	LVDS 3.3V, Data Strobe 28-Bit, Channel Link-66MHz*	56-TSSOP	7.45	6.11	5.52
DS90CR287MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz*	56-TSSOP	12.54	10.55	9.69
DS90CR287SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz*	64-FBGA	14.10	11.86	10.90
DS90CR288AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz*	56-TSSOP	12.54	10.55	9.69
DS90CR481VJD-ND	48-Bit LVDS Channel Link Serializer, 65-112MHz	100-TQFP	20.40	17.34	16.07
DS90CR483AVJD-ND	48-Bit LVDS Ch. Link SER/DES, 33-112MHz*	100-TQFP	20.79	17.49	16.07

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(Continued)

National Semiconductor Digi-Reel (Cont.) INTERFACE — SERIALIZER/DESERIALIZER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS90CR483VJD-ND	48-Bit LVDS Channel Link SER/DES, 33-112MHz*	100-TQFP	21.96	18.47	16.97
DS90CR484AVJD-ND	48-Bit LVDS Ch. Link Deserializer, 33-112MHz*	100-TQFP	20.79	17.49	16.07
DS90CR485VS-ND	133MHz, 48-Bit Channel Link Serializer (6.384Gbps)	100-TQFP	23.20	19.72	18.27
DS90CR486VS-ND	133MHz, 48-Bit Channel Link Deserializer (6.384Gbps)*	100-TQFP	23.20	19.72	18.27
DS90UR124IVS-ND	5~43MHz, 24-Bit LVDS Serializer/Deserializer* ***NEW!***	64-TQFP	11.09	9.33	8.57
DS90UR124QVS-ND	5~43MHz, 24-Bit LVDS Serializer/Deserializer*	64-TQFP	11.09	9.33	8.57
DS90UR241IVS-ND	5~43MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	11.09	9.33	8.57
DS90UR241QVS-ND	5~43MHz, 24-Bit LVDS Serializer/Deserializer*	48-TQFP	11.09	9.33	8.57
DS91C176TMA-ND	Multipoint-LVDS Transceiver*	8-SOIC	4.12	3.31	3.02
DS91C180TMA-ND	Multipoint-LVDS Line Driver/Receiver*	14-SOIC	4.26	3.42	3.12
DS91D176TMA-ND	Multipoint-LVDS Transceiver*	8-SOIC	4.12	3.31	3.02
DS91D180TMA-ND	Multipoint-LVDS Line Driver/Receiver*	14-SOIC	4.26	3.42	3.12
DS92LV16TVHG-ND	16-Bit Bus LVDS Serializer/Deserializer*	80-LQFP	16.70	14.05	12.91
DS92LV18TVV-ND	18-Bit Bus LVDS Serializer/Deserializer*	80-LQFP	16.94	14.25	13.09
DS92LV1021AMSA-ND	16MHz~40MHz 10-Bit Bus LVDS Serializer*	28-SSOP	7.60	6.24	5.63
DS92LV1021TMSA-ND	16MHz~40MHz 10-Bit Bus LVDS Serializer*	28-SSOP	13.75	11.57	10.63
DS92LV1023EMQ-ND	30MHz~66MHz 10-Bit Bus LVDS Serializer* ***NEW!***	28-SSOP	9.85	8.08	7.29
DS92LV1023TMSA-ND	40MHz~66MHz 10-Bit Serializer*	28-SSOP	9.45	7.75	7.00
DS92LV1212AMSA-ND	16MHz~40MHz Bus 10-Bit LVDS Random Lock Deserializer*	28-SSOP	7.60	6.24	5.63
DS92LV1224TMSA-ND	40MHz~66MHz 10-Bit Deserializer*	28-SSOP	10.70	8.78	7.92
DS92LV1260TUJB-ND	6-Channel 10-Bit BLVDS Deserializer*	196-LBGA	32.40	27.54	25.52
DS92LV3221TVS-ND	20~50MHz, 32-Bit Channel Link II Serializer/ Deserializer* ***NEW!***	64-TQFP	11.51	9.68	8.90
DS92LV3241TVS-ND	20~85MHz, 32-Bit Channel Link II Serializer/ Deserializer* ***NEW!***	64-TQFP	14.52	12.21	11.22
DS92LV3242TVS-ND	20~85MHz, 32-Bit Channel Link II Serializer/ Deserializer* ***NEW!***	64-TQFP	14.52	12.21	11.22
DS99R101VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-TQFP	11.28	9.25	8.35
DS99R102VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-TQFP	11.28	9.25	8.35
DS99R103TSQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-LLP	12.08	10.04	9.12
DS99R103TSQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-LLP	6156.00/1,000		
DS99R103TVS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-TQFP	11.88	9.74	8.79
DS99R104TSQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-LLP	12.08	10.04	9.12
DS99R104TSQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-LLP	1938.00/250		
DS99R104TVS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-TQFP	11.88	9.74	8.79
DS99R105SQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-LLP	13.22	10.98	9.98
DS99R105VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer*	48-TQFP	12.48	10.23	9.24
DS99R106SQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-LLP	10.34	8.58	7.80
DS99R106SQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-LLP	1657.50/250		
DS99R106VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Deserializer*	48-TQFP	12.48	10.23	9.24
DS99R421QSQCT-ND	5MHz-43MHz FPD-Link LVDS Converter*	36-LLP	13.43	11.39	10.52
DS99R421QSQTR-ND	5MHz-43MHz FPD-Link LVDS Converter*	36-LLP	2263.00/250		
SCAN25100TYA-ND	2457.6, 1228.8, and 614.4 Mbps CPRI Serializer/ Deserializer*	100-TQFP	22.80	19.38	17.96
SCAN90004TVS-ND	4-Channel LVDS Buffer/Repeater*	48-TQFP	8.10	6.65	6.00
SCAN921025HSM-ND	High Temperature 20-80MHz 10-Bit Bus LV Ser/Des*	49-BGA	10.70	8.78	7.92
SCAN921224SLC-ND	20-66MHz, 10-Bit Deserializer with JTAG and BIST*	49-FBGA	10.20	8.37	7.55
SCAN921226HSM-ND	High Temp. 20-80MHz 10-Bit Bus LVDS SerDes*	49-BGA	10.70	8.78	7.92
SCAN921226SLC-ND	30-80MHz 10-Bit Deserializer with JTAG and BIST	49-FBGA	11.40	9.35	8.44
SCAN926260TUF-ND	X6 1:10 Bus LVDS Deserializer with JTAG and BIST	196-LBGA	37.00	31.45	29.14
SCAN928028TUF-ND	8-Channel, 10:1 Serializer*	196-LBGA	38.67	33.44	31.35

National Semiconductor MICROCONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
COP8AME9EMW8-ND	8-Bit Microcontroller w/8K Flash, Temp. Sensor 10-Bit A/D	28-SOIC	14.96	12.58	11.56
COP8SAA716M8-ND	8-Bit Microcontroller with 1K Memory ***NEW!***	16-SOIC	6.48	5.31	4.80
COP8SBR9HVA8-ND	8-Bit Microcontroller with 32K Memory ***NEW!***	44-PLCC	19.49	16.40	15.07
COP8SBR9LVA8-ND	8-Bit Microcontroller with 32K Memory ***NEW!***	68-PLCC	16.48	13.86	12.74
COP8SCR9HVA8-ND	8-Bit Microcontroller with 32K Memory ***NEW!***	44-PLCC	16.48	13.86	12.74
COP8SGE728M8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comp. USART	28-SOIC	10.36	8.50	7.67
COP8SGE728N8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comp. USART	28-Dip	11.37	9.57	8.79
COP8SGR728M8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comp. USART	28-SOIC	10.53	8.64	7.79
COP8SGR744V8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comp. USART	44-PLCC	12.67	10.66	9.80

National Semiconductor Digi-Reel MOTOR CONTROL

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM628N-6-ND	Precision Motion Controller, 6MHz	28-Dip	41.81	36.16	33.90
LM628N-8-ND	Precision Motion Controller, 8MHz	28-Dip	59.84	52.80	50.16
LM629M-6-ND	Precision Motion Controller, 6MHz	24-SOIC	41.81	36.16	33.90
LM629M-8-ND	Precision Motion Controller, 8MHz	24-SOIC	59.84	52.80	50.16
LM629N-6-ND	Precision Motion Controller, 6MHz	28-Dip	41.81	36.16	33.90
LM629N-8-ND	8-Bit PWM Motion Controller	28-Dip	59.84	52.80	50.16
LM4570LQCT-ND	Single-Ended Input Motor Driver	8-LLP	2.35	1.81	1.65
LM4570LQTR-ND	Single-Ended Input Motor Driver	8-LLP	972.00/1,000		
LMD18200T-ND	55V, 3A H Bridge	TO-220-11	17.78	14.95	13.74
LMD18201T-ND	55V, 3A H Bridge	TO-220-11	16.94	14.25	13.09
LMD18245T-ND	55V, 3A DMOS H Bridge Motor Driver	TO-220	20.09	16.90	15.53
LMD18400N-ND	60V, 3A DMOS Quad High Side Driver	20-Dip	12.25	10.31	9.47

National Semiconductor Digi-Reel POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3280TL-275CT-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	6.57	5.37	4.82
LM3280TL-275TR-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	1013.00/250		
LM3280TL-280CT-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	6.57	5.37	4.82
LM3280TL-280TR-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	1013.00/250		
LM3280TL-290CT-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	6.57	5.37	4.82
LM3280TL-290TR-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	1013.00/250		
LM3280TLCT-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	6.57	5.37	4.82
LM3280TLTR-ND	Adj., Step-Down DC-DC Converter and 3 LDOs for RF*	16-µSMD	1013.00/250		
LM3420AM5-8.4CT-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.77	2.14	1.94
LM3420AM5-8.4TR-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1146.00/1,000		
LM3524DM-ND	Regulating Pulse Width Modulator*	16-SOIC	1.67	1.35	1.22
LM3524DN-ND	Regulating Pulse Width Modulator*	16-Dip	2.10	1.69	1.53
LM3525M-H-ND	Single Port USB Power Switch/Over-Current Protection*	8-SOIC	1.98	1.60	1.44
LM3525M-L-ND	Single Port USB Power Switch/Over-Current Protection*	8-SOIC	1.98	1.60	1.44
LM3526M-H-ND	Dual Port USB Power Switch/Over-Current Protection*	8-SOIC	2.08	1.68	1.52
LM3526M-L-ND	Dual Port USB Power Switch/Over-Current Protection*	8-SOIC	2.08	1.68	1.52
LM3658SD-ACT-ND	Dual Source USB/AC Li Chemistry Charger*	10-LLP	1.71	1.35	1.22

National Semiconductor Digi-Reel (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3658SD-ATR-ND	Dual Source USB/AC Li Chemistry Charger*	10-LLP	675.00/1,000		
LM3658SD-BCT-ND	Dual Source USB/AC Li Chemistry Charger w/LDO Mode*	10-LLP	1.71	1.35	1.22
LM3658SD-BTR-ND	Dual Source USB/AC Li Chemistry Charger w/LDO Mode*	10-LLP	675.00/1,000		
LM3658SDCT-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	1.71	1.35	1.22
LM3658SDTR-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	675.00/1,000		
LM3813M-7.0-ND	Precision Current Gauge/Ultra Low Loss Sense/PWM	8-SOIC	4.06	3.27	2.98
LM3814M-7.0-ND	Fast Current Gauge/Ultra Low Loss Sense/PWM	8-SOIC	3.58	2.88	2.63
LM5067MM-1CT-ND	Negative Hot Swap/Inrush Current Controller*	10-MSOP	3.99	3.26	2.93
LM5067MM-1TR-ND	Negative Hot Swap/Inrush Current Controller*	10-MSOP	1862.00/1,000		
LM5067MM-2CT-ND	Negative Hot Swap/Inrush Current Controller*	10-MSOP	3.99	3.26	2.93
LM5067MM-2TR-ND	Negative Hot Swap/Inrush Current Controller*	10-MSOP	1862.00/1,000		
LM5067MW-1-ND	Negative Hot Swap/Inrush Current Controller* ***NEW!***	14-SOIC	3.72	3.00	2.73
LM5068MM-2CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.57	2.92	2.62
LM5068MM-2TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1666.00/1,000		
LM5068MM-3CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.57	2.92	2.62
LM5068MM-3TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1666.00/1,000		
LM5069MM-1CT-ND	Positive Voltage Hot Swap Controller*	10-MSOP	4.02	3.29	2.95
LM5069MM-1TR-ND	Positive Voltage Hot Swap Controller*	10-MSOP	1876.00/1,000		
LM5069MM-2CT-ND	Positive Voltage Hot Swap Controller*	10-MSOP	4.02	3.29	2.95
LM5069MM-2TR-ND	Positive Voltage Hot Swap Controller*	10-MSOP	1876.00/1,000		
LM5080MMCT-ND	Modular Current Sharing Controller*	8-MSOP	2.00	1.54	1.40
LM5080MMTR-ND	Modular Current Sharing Controller*	8-MSOP	827.00/1,000		
LM5100AM-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.58	2.88	2.63
LM5100AMR-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-PSOP	3.58	2.88	2.63
LM5100ASDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	3.84	3.14	2.82
LM5100ASDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	1792.00/1,000		
LM5100BMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.25	2.61	2.38
LM5100BSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	3.48	2.85	2.56
LM5100BSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1624.00/1,000		
LM5100CMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.98	2.40	2.16
LM5100CMYCT-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-eMSOP	3.36	2.60	2.36
LM5100CMYTR-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-eMSOP	1392.00/1,000		
LM5100CSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	3.36	2.60	2.36
LM5100CSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1392.00/1,000		
LM5101AM-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.47	2.79	2.55
LM5101AMR-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-PSOP	3.47	2.79	2.55
LM5101ASDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	3.72	3.04	2.73
LM5101ASDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1736.00/1,000		
LM5101BMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.25	2.61	2.38
LM5101CMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.98	2.40	2.16
LM5101CMYECT-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-eMSOP	3.36	2.60	2.36
LM5101CMYETR-ND	High Voltage, High Side and Low Side Gate Driver* ***NEW!***	8-eMSOP	480.00/250		
LM5101CSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	3.36	2.60	2.36
LM5101CSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1392.00/1,000		
LM5101M-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.86	2.30	2.10
LM5102MMCT-ND	High Voltage Half-Bridge Gate Driver	10-MSOP	3.15	2.58	2.31
LM5102MMTR-ND	High Voltage Half-Bridge Gate Driver	10-MSOP	1470.00/1,000		
LM5102SDCT-ND	High Voltage Half-Bridge Gate Driver	10-LLP	3.15	2.58	2.31
LM5102SDTR-ND	High Voltage Half-Bridge Gate Driver	10-LLP	1470.00/1,000		
LM5104M-ND	High Voltage Half-Bridge Gate Driver*	8-SOIC	3.19	2.57	2.34
LM5104SDCT-ND	High Voltage Half-Bridge Gate Driver*	10-LLP	3.42	2.80	2.51
LM5104SDTR-ND	High Voltage Half-Bridge Gate Driver*	10-LLP	1596.00/1,000		
LM5105SDCT-ND	100V Half-Bridge Gate Driver*	10-LLP	3.19	2.47	2.24
LM5105SDTR-ND	100V Half-Bridge Gate Driver*	10-LLP	1322.00/1,000		
LM5106MMCT-ND	100V Half-Bridge Gate Driver*	10-MSOP	2.26	1.75	1.59
LM5106MMTR-ND	100V Half-Bridge Gate Driver*	10-MSOP	937.00/1,000		
LM5106SDCT-ND	100V Half Bridge Gate Driver*	10-LLP	2.26	1.75	1.59
LM5106SDTR-ND	100V Half Bridge Gate Driver*	10-LLP	937.00/1,000		
LM5107MA-ND	100V, 1.4A Peak Half-Bridge Gate Driver*	8-SOIC	2.47	2.00	1.80
LM5107SDCT-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP	2.79	2.16	1.96
LM5107SDTR-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP	1157.00/1,000		
LM5109AMA-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-SOIC	1.62	1.31	1.18
LM5109ASDCT-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-LLP	1.83	1.41	1.28
LM5109ASDTR-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-LLP	757.00/1,000		
LM5109BMA-ND	High Voltage, 1A Peak Half-Bridge Gate Driver* ***NEW!***	8-SOIC	1.70	1.36	1.19
LM5109BSDCT-ND	High Voltage, 1A Peak Half-Bridge Gate Driver*	8-LLP	1.84	1.46	1.31
LM5109BSDTR-ND	High Voltage, 1A Peak Half-Bridge Gate Driver*	8-LLP	728.00/1,000		
LM5109SDCT-ND	100V, 1A Peak Half-Bridge Gate Driver	8-LLP	1.75	1.35	1.23
LM5110-1M-ND	Dual 5A Compound Gate Driver with Neg. Output Volt.*	8-SOIC	1.81	1.47	1.32
LM5110-1SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	2.05	1.58	1.44
LM5110-1SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	848.00/1,000		
LM5110-2M-ND	Dual 5A Compound Gate Driver with Neg. Output Volt.*	8-SOIC	1.81	1.47	1.32
LM5110-2SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	2.05	1.58	1.44
LM5110-2SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	848.00/1,000		
LM5110-3M-ND	Dual 5A Compound Gate Driver with Neg. Output Volt.*	8-SOIC	1.81	1.47	1.32
LM5110-3SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	2.05	1.58	1.44
LM5110-3SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	848.00/1,000		
LM5111-1M-ND	Dual 5A Compound Gate Driver	8-SOIC	1.80	1.45	1.31
LM5111-1MYCT-ND	Dual 5A Compound Gate Driver*	8-eMSOP	2.03	1.57	1.43
LM5111-1MYTR-ND	Dual 5A Compound Gate Driver*	8-eMSOP	841.00/1,000		
LM5111-2M-ND	Dual 5A Compound Gate Driver*	8-SOIC	1.80	1.45	1.31
LM5111-2MYCT-ND	Dual 5A Compound Gate Driver*	8-eMSOP	2.03	1.57	1.43
LM5111-2MYTR-ND	Dual 5A Compound Gate Driver*	8-eMSOP	841.00/1,000		
LM5111-3M-ND	Dual 5A Compound Gate Driver*	8-SOIC	1.80	1.45	1.31
LM5111-3MYCT-ND	Dual 5A Compound Gate Driver*	8-eMSOP	2.03	1.57	1.43
LM5111-3MYTR-ND	Dual 5A Compound Gate Driver*	8-eMSOP	841.00/1,000		
LM5111-4M-ND	Dual 5A Compound Gate Driver*	8-SOIC	1.80	1.45	1.31
LM5111-4MYCT-ND	Dual 5A Compound Gate Driver*	8-eMSOP	2.03	1.57	1.43
LM5111-4MYTR-ND	Dual 5A Compound Gate Driver*	8-eMSOP	841.00/1,000		
LM5112MYCT-ND	Tiny 7A MOSFET Gate Driver*	8-eMSOP	1.77	1.40	1.26
LM5112MYTR-ND	Tiny 7A MOSFET Gate Driver*	8-eMSOP	699.00/1,000		
LM5112SDCT-ND	Tiny 7A MOSFET Gate Driver*	6-LLP	1.77	1.40	1.26
LM5112SDTR-ND	Tiny 7A MOSFET Gate Driver*	6-LLP	699.00/1,000		
LM8322JGR8CT-ND	Mobile I/O Companion*	36-µArray	3.33	2.57	2.33
LM8322JGR8TR-ND	Mobile I/O Companion*	36-µArray	1378.00/1,000		
LM8333FLQ8YCT-ND	Mobile I/O Companion*	32-LLP	3.00	2.45	2.20
LM8333FLQ8YTR-ND	Mobile I/O Companion*	32-LLP	462.50/250		
LM8333GGR8CT-ND	Keypad Controller with I/O Expansion*	49-µArray	3.00	2.45	2.20
LM8333GGR8TR-ND	Keypad Controller with I/O Expansion*	49-µArray	1400.00/1,000		
LM25061PMME-1CT-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	3.60	2.94	2.64
LM25061PMME-1TR-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	555.00/250		
LM25061PMME-2CT-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	3.60	2.94	2.64
LM25061PMME-2TR-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	555.00/250		
LM25069PMME-1CT-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	3.57	2.92	2.62
LM25069PMME-1TR-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	550.50/250		
LM25069PMME-2CT-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	3.57	2.92	2.62
LM25069PMME-2TR-ND	Positive Low Voltage Hot Swap Controller* ***NEW!***	10-MSOP	550.50/250		

***** RoHS Compliant**

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP2995LQCT-ND	DDR Termination Regulator	16-LLP	1.86	1.44	1.31
LP2995LQTR-ND	DDR Termination Regulator	16-LLP	771.00/1,000		
LP2995M-ND	DDR Termination Regulator	8-SOIC	1.65	1.33	1.20
LP2995MR-ND	DDR Termination Regulator	8-PSOP	1.65	1.33	1.20
LP2996LQCT-ND	DDR Termination Regulator	16-LLP	2.06	1.60	1.45
LP2996LQTR-ND	DDR Termination Regulator	16-LLP	854.00/1,000		
LP2996M-ND	DDR Termination Regulator	8-SOIC	1.83	1.48	1.33
LP2996MR-ND	DDR Termination Regulator	8-PSOP	1.83	1.48	1.33
LP2997M-ND	DDR-II Termination Regulator	8-SOIC	1.83	1.48	1.33
LP2997MR-ND	DDR-II Termination Regulator	8-PSOP	1.83	1.48	1.33
LP2998MA-ND	DDR-I/DDR-II Termination Regulator*	8-SOIC	2.15	1.74	1.57
LP2998MR-ND	DDR-I/DDR-II Termination Regulator*	8-PSOP	2.15	1.74	1.57
LP3917RL-MCT-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	3.84	3.14	2.82
LP3917RL-MTR-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	592.00/250		
LP3917RL-NCT-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	3.84	3.14	2.82
LP3917RL-NTR-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	592.00/250		
LP3917RL-QCT-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	3.84	3.14	2.82
LP3917RL-QTR-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	592.00/250		
LP3917RL-SCT-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	3.84	3.14	2.82
LP3917RL-STR-ND	CDMA Cellular Phone Power Management Unit*	49-µSMDxt	592.00/250		
LP3919RL-ACT-ND	CDMA Power Management Unit*	49-µSMDxt	4.41	3.61	3.24
LP3919RL-ATR-ND	CDMA Power Management Unit*	49-µSMDxt	680.00/250		
LP3919RL-BCT-ND	Power Management Unit CDMA ***NEW!***	49-µSMDxt	4.41	3.61	3.24
LP3919RL-BTR-ND	Power Management Unit CDMA ***NEW!***	49-µSMDxt	680.00/250		
LP3919RL-CCT-ND	CDMA Power Management Unit*	49-µSMDxt	4.41	3.61	3.24
LP3919RL-CTR-ND	CDMA Power Management Unit*	49-µSMDxt	680.00/250		
LP3923TLCT-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	3.60	2.94	2.64
LP3923TLTR-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	555.00/250		
LP3923TL-VBCT-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	3.60	2.94	2.64
LP3923TL-VBTR-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	555.00/250		
LP3923TL-VICT-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	3.60	2.94	2.64
LP3923TL-VITR-ND	CDMA Cellular Phone Power Management Unit* ***NEW!***	30-µSMD	555.00/250		
LP8720TLECT-ND	Programmable Power Management Unit* ***NEW!***	20-µSMD	3.15	2.58	2.31
LP8720TLETR-ND	Programmable Power Management Unit* ***NEW!***	20-µSMD	485.75/250		
PowerWise® — RoHS Compliant					
LP3910SQ-AACT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	9.94	8.25	7.50
LP3910SQ-AATR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1593.75/250		
LP3910SQ-AKCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	9.94	8.25	7.50
LP3910SQ-AKTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1593.75/250		
LP3910SQ-AMCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	9.94	8.25	7.50
LP3910SQ-AMTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1593.75/250		
LP3913SQ-AACT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-AATR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3913SQ-ACCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-ACTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3913SQ-ADCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-ADTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3913SQ-ADJCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-ADJTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3913SQ-AECT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-AETR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3913SQ-ARCT-ND	Power Mgmt. Unit for Portable Media Players	48-LLP	7.13	5.85	5.28
LP3913SQ-ARTR-ND	Power Mgmt. Unit for Portable Media Players	48-LLP	1211.25/250		
LP3913SQ-AUCT-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	7.55	6.27	5.70
LP3913SQ-AUTR-ND	Power Mgmt. Unit for Portable Media Players ***NEW!***	48-LLP	1211.25/250		
LP3970SQ-31CT-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	9.91	8.23	7.48
LP3970SQ-31TR-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	5049.00/1,000		
LP3970SQ-35CT-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	9.91	8.23	7.48
LP3970SQ-35TR-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	1589.50/250		
LP3970SQ-44CT-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	9.91	8.23	7.48
LP3970SQ-44TR-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	1589.50/250		
LP3970SQ-45CT-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	9.91	8.23	7.48
LP3970SQ-45TR-ND	Power Mgmt. Unit for Adv. Application Processor	48-LLP	1589.50/250		
LP3971SQ-2G16CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-2G16TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-8858CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-8858TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-B410CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-B410TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-B510CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.82	6.49	5.90
LP3971SQ-B510TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3971SQ-D510CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-D510TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-G824CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.82	6.49	5.90
LP3971SQ-G824TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3971SQ-N510CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.82	6.49	5.90
LP3971SQ-N510TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3971SQ-O509CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-O509TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-P55ACT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.82	6.49	5.90
LP3971SQ-P55ATR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3971SQ-Q418CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.82	6.49	5.90
LP3971SQ-Q418TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3971SQ-U511CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-U511TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQ-W416CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQ-W416TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3971SQE-7848CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3971SQE-7848TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	1253.75/250		
LP3971SQE-B510CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.38	6.05	5.46
LP3971SQE-B510TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	1253.75/250		
LP3971SQE-N510CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.38	6.05	5.46
LP3971SQE-N510TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	1253.75/250		
LP3971SQE-P55ACT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.38	6.05	5.46
LP3971SQE-P55ATR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	1253.75/250		
LP3972SQ-0514CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3972SQ-0514TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3972SQ-A413CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3972SQ-A413TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3972SQ-A514CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3972SQ-A514TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3972SQ-I414CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.38	6.05	5.46
LP3972SQ-I414TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	3983.00/1,000		
LP3972SQ-I514CT-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	7.82	6.49	5.90
LP3972SQ-I514TR-ND	Power Mgmt. Unit for Adv. Application Processor ***NEW!***	40-LLP	3983.00/1,000		
LP3972SQE-I514CT-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	7.38	6.05	5.46
LP3972SQE-I514TR-ND	Power Mgmt. Unit for Adv. Application Processor	40-LLP	1253.75/250		

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP39542TLCT-ND	Advanced Lighting Management Unit	36-µSMD	6.00	4.90	4.40
LP39542TLTR-ND	Advanced Lighting Management Unit	36-µSMD	925.00/250		
MAX660M-ND	Switch Capacitor Volt Converter	8-SOIC	1.75	1.41	1.27

National Semiconductor Digi-Reel® POWER MANAGEMENT LIGHTING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2703MF-ADJCT-ND	Adj. Step-Up DC-DC Converter*	SOT-23-5	2.63	2.03	1.84
LM2703MF-ADJTR-ND	Adj. Step-Up DC-DC Converter*	SOT-23-5	1088.00/1,000		
LM2703EV-ND	Evaluation Board for LM2703	—	44.16	—	—
LM2704MF-ADJCT-ND	Adj. Step-Up DC-DC Converter*	SOT-23-5	2.52	1.95	1.77
LM2704MF-ADJTR-ND	Adj. Step-Up DC-DC Converter*	SOT-23-5	1044.00/1,000		
LM2704EV-ND	Evaluation Board for LM2704	—	44.16	—	—
LM2705MF-ADJCT-ND	Step-Up DC-DC Converter with 150mA Peak Current*	SOT-23-5	2.35	1.81	1.65
LM2705MF-ADJTR-ND	Step-Up DC-DC Converter with 150mA Peak Current*	SOT-23-5	972.00/1,000		
LM2751SD-ACT-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	2.45	1.89	1.72
LM2751SD-ATR-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	1015.00/1,000		
LM2751SD-BCT-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	2.45	1.89	1.72
LM2751SD-BTR-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	1015.00/1,000		
LM2753SDCT-ND	Switched Capacitor Voltage Converter/Flash LED Driver*	10-LLP	3.13	2.42	2.19
LM2753SDTR-ND	Switched Capacitor Voltage Converter/Flash LED Driver*	10-LLP	1295.00/1,000		
LM2754SQCT-ND	800mA Switched Capacitor Flash LED Driver*	24-LLP	3.00	2.45	2.20
LM2754SQTR-ND	800mA Switched Capacitor Flash LED Driver*	24-LLP	1400.00/1,000		
LM2754SQEV-ND	Evaluation Board for LM2754SQ*	—	109.33	—	—
LM3500TL-16CT-ND	Sync. Step-Up DC-DC Converter* ***NEW!***	8-µSMD	3.99	3.26	2.93
LM3500TL-16TR-ND	Sync. Step-Up DC-DC Converter* ***NEW!***	8-µSMD	615.25/250		
LM3500TL-21CT-ND	Sync. Step-Up DC-DC Converter	8-µSMD	3.99	3.26	2.93
LM3500TL-21TR-ND	Sync. Step-Up DC-DC Converter	8-µSMD	615.25/250		
LM3501TL-16CT-ND	Sync. Step-Up DC-DC Converter for White LED	8-SMD	3.00	2.45	2.20
LM3501TL-21CT-ND	Sync. Step-Up DC-DC Converter for White LED*	8-µSMD	3.00	2.45	2.20
LM3501TL-21TR-ND	Sync. Step-Up DC-DC Converter for White LED*	8-µSMD	462.50/250		
LM3501TL-16EV-ND	Evaluation Board for LM3501TL-16*	—	89.38	—	—
LP5524TM-5CT-ND	4-Channel Dual Zone Parallel LED Driver*	9-µSMD	2.17	1.68	1.52
LP5524TM-5TR-ND	4-Channel Dual Zone Parallel LED Driver*	9-µSMD	310.00/250		
PowerWise®					
LM2755TMCT-ND	Charge Pump LED Cont., I^2C Compatible Interface*	18-µSMD	1.75	1.35	1.23
LM2755TMTR-ND	Charge Pump LED Cont., I^2C Compatible Interface*	18-µSMD	250.00/250		
LM2756TMCT-ND	180mA Switched Capacitor Multi-Display LED Driver*	20-µSMD	5.13	4.19	3.77
LM2756TMTR-ND	180mA Switched Capacitor Multi-Display LED Driver*	20-µSMD	791.00/250		
LM2757TMCT-ND	Switched Capacitor Boost Regulator*	12-µSMD	4.08	3.34	3.00
LM2757TMTR-ND	Switched Capacitor Boost Regulator*	12-µSMD	629.00/250		
LM2758TLCT-ND	Switched Capacitor Flash LED Driver*	12-µSMD	2.00	1.54	1.40
LM2758TLTR-ND	Switched Capacitor Flash LED Driver*	12-µSMD	285.00/250		
LM2759SDCT-ND	Photo Flash LED Driver* ***NEW!***	12-LLP	2.52	1.95	1.77
LM2759SDTR-ND	Photo Flash LED Driver* ***NEW!***	12-LLP	1044.00/1,000		
LM2793LDEV-ND	Evaluation Board for LM2793LD*	—	96.16	—	—
LM2796TLEV-ND	Evaluation Board for LM2796TL*	—	89.38	—	—
LM3401MMCT-ND	Hysteretic PFET Controller for High Power LED Drive*	8-MSOP	2.45	1.89	1.72
LM3401MMTR-ND	Hysteretic PFET Controller for High Power LED Drive*	8-MSOP	1015.00/1,000		
LM3402EVAL-ND	Evaluation Board for LM3402*	—	42.43	—	—
LM3402HVEVAL-ND	Evaluation Board for LM3402HV*	—	42.43	—	—
LM3402HVMMCT-ND	0.5A Constant Current Buck Reg. for High Power LEDs*	8-MSOP	3.66	2.99	2.69
LM3402HVMMTR-ND	0.5A Constant Current Buck Reg. for High Power LEDs*	8-MSOP	1708.00/1,000		
LM3402HVMR-ND	0.5A Constant Current Buck Reg. for High Power LEDs*	8-PSOP	3.42	2.75	2.51
LM3402MR-ND	0.5A Constant Current Buck Reg. for High Power LEDs*	8-PSOP	2.95	2.38	2.14
LM3402MMCT-ND	0.5A Constant Current Buck Regulator*	8-MSOP	3.33	2.57	2.33
LM3402MMTR-ND	0.5A Constant Current Buck Regulator*	8-MSOP	1378.00/1,000		
LM3404EVAL-ND	Evaluation Board for LM3404	—	42.43	—	—
LM3404HVEVAL-ND	Evaluation Board for LM3404HV	—	42.43	—	—
LM3404HVMA-ND	1.0A Constant Current Buck Regulator*	8-SOIC	4.12	3.31	3.02
LM3404HVMR-ND	1.0A Constant Current Buck Regulator*	8-PSOP	4.12	3.31	3.02
LM3404MA-ND	1.0A Constant Current Buck Regulator*	8-SOIC	3.42	2.75	2.51
LM3404MR-ND	1.0A, Constant Current Buck Regulator*	8-PSOP	3.42	2.75	2.51
LM3404MREVAL-ND	Evaluation Board for LM3404MR*	—	42.43	—	—
LM3405AXMKCT-ND	1.6MHz, 1A Constant Current Buck LED Driver*	TSOT-23-6	3.46	2.67	2.43
LM3405AXMKTR-ND	1.6MHz, 1A Constant Current Buck LED Driver*	TSOT-23-6	1433.00/1,000		
LM3405AXMYCT-ND	1.6MHz, 1A Constant Current Buck LED Driver*	8-MSOP	3.24	2.65	2.38
LM3405AXMYTR-ND	1.6MHz, 1A Constant Current Buck LED Driver*	8-MSOP	1512.00/1,000		
LM3405XMKCT-ND	1.6MHz, 1A Constant Current Buck Regulator*	TSOT-23-6	3.23	2.49	2.26
LM3405XMKTR-ND	1.6MHz, 1A Constant Current Buck Regulator*	TSOT-23-6	1337.00/1,000		
LM3405XEVAL-ND	Evaluation Board for LM3405X	—	45.75	—	—
LM3406HVMH-ND	1.5A Constant Current Buck Regulator*	14-eTSSOP	4.20	3.38	3.08
LM3406MH-ND	1.5A Constant Current Buck Regulator*	14-eTSSOP	3.95	3.18	2.90
LM3406MHEVAL-ND	Evaluation Board for LM3406MH*	—	56.53	—	—
LM3407EVAL-ND	Evaluation Board for LM3407 ***NEW!***	—	42.43	—	—
LM3407MYCT-ND	350mA Constant Current Buck Sw. Converter*	8-eMSOP	2.56	1.98	1.80
LM3407MYTR-ND	350mA Constant Current Buck Sw. Converter*	8-eMSOP	1061.00/1,000		
LM3409HVMYCT-ND	High Brightness LED Driver* ***NEW!***	10-eMSOP	4.14	3.39	3.04
LM3409HVMYTR-ND	High Brightness LED Driver* ***NEW!***	10-eMSOP	1932.00/1,000		
LM3409MYCT-ND	High Brightness LED Driver* ***NEW!***	10-eMSOP	3.60	2.94	2.64
LM3409MYTR-ND	High Brightness LED Driver* ***NEW!***	10-eMSOP	1680.00/1,000		
LM3410XMYECT-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	8-eMSOP	3.11	2.50	2.28
LM3410XMYETR-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	8-eMSOP	1554.00/1,000		
LM3410XMFCT-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	SOT-23-5	3.33	2.72	2.45
LM3410XMFTR-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	SOT-23-5	1554.00/1,000		
LM3410XQMFCT-ND	1.6MHz, Constant Curr. Boost/SEPIC LED Driver* ***NEW!***	SOT-23-5	3.75	3.07	2.75
LM3410XQMFTR-ND	1.6MHz, Constant Curr. Boost/SEPIC LED Driver* ***NEW!***	SOT-23-5	1750.00/1,000		
LM3410XSDCT-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	6-LLP	3.33	2.72	2.45
LM3410XSDTR-ND	1.6MHz, Constant Current Boost/SEPIC LED Driver*	6-LLP	1554.00/1,000		
LM3410YMFCT-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	SOT-23-5	3.33	2.72	2.45
LM3410YMFTR-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	SOT-23-5	1554.00/1,000		
LM3410YQMFCT-ND	525kHz, Constant Curr. Boost/SEPIC LED Driver* ***NEW!***	SOT-23-5	3.75	3.07	2.75
LM3410YQMFTR-ND	525kHz, Constant Curr. Boost/SEPIC LED Driver* ***NEW!***	SOT-23-5	1750.00/1,000		
LM3410YMYECT-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	8-eMSOP	3.33	2.72	2.45
LM3410YMYETR-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	8-eMSOP	513.50/250		
LM3410YSDCT-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	6-LLP	3.33	2.72	2.45
LM3410YSDTR-ND	525kHz, Constant Current Boost/SEPIC LED Driver*	6-LLP	1554.00/1,000		
LM3421MH-ND	N-Ch. Controller for Constant Current LED Driver*	16-eTSSOP	3.98	3.20	2.92
LM3421Q0MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	16-TSSOP	4.76	3.83	3.49
LM3421Q1MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	16-TSSOP	4.34	3.49	3.18
LM3423MH-ND	N-Ch. Controller for Constant Current LED Driver*	20-eTSSOP	4.26	3.42	3.12
LM3423Q0MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	20-TSSOP	5.24	4.21	3.84
LM3423Q1MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	20-TSSOP	4.84	3.90	3.55

** RoHS Compliant*

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(Continued)

National Semiconductor Digi-Reel® (Cont.)

POWER MANAGEMENT LIGHTING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3424MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	20-eTSSOP	4.40	3.54	3.22
LM3424QMH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	20-eTSSOP	5.07	4.08	3.72
LM3429BKBSTEVAL-ND	Evaluation Board for LM3429 ***NEW!***	—	101.75	—	—
LM3429BSTEVAL-ND	Evalutaion Board for LM3429 ***NEW!***	—	101.75	—	—
LM3429MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	14-eTSSOP	3.64	2.93	2.67
LM3429Q1MH-ND	N-Ch. Controller for Constant Current LED Dvr.* ***NEW!***	14-TSSOP	3.92	3.15	2.87
LM3430SDCT-ND	White LED Backlight Driver* ***NEW!***	12-LLP	3.09	2.39	2.17
LM3430SDTR-ND	White LED Backlight Driver* ***NEW!***	12-LLP	1282.00/1,000		
LM3430EVAL-ND	Evaluation Board for LM3430	—	106.80	—	—
LM3431AMH-ND	3-Channel Constant Current LED Driver*	28-TSSOP	4.96	3.99	3.63
LM3431AQMH-ND	3-Channel Constant Current LED Driver* ***NEW!***	28-eTSSOP	5.71	4.59	4.19
LM3431MH-ND	3-Channel Constant Current LED Driver*	28-TSSOP	4.68	3.76	3.43
LM3431QMH-ND	3-Channel Constant Current LED Driver* ***NEW!***	28-eTSSOP	5.46	4.39	4.00
LM3432BSQECT-ND	6-Channel LED Current Regulator*	24-LLP	4.29	3.51	3.15
LM3432BSQETR-ND	6-Channel LED Current Regulator*	24-LLP	661.50/250		
LM3432MH-ND	6-Channel LED Current Regulator*	28-TSSOP	4.00	3.22	2.94
LM3432SQCT-ND	6-Channel LED Current Regulator*	24-LLP	4.29	3.51	3.15
LM3432SQTR-ND	6-Channel LED Current Regulator*	24-LLP	2002.00/1,000		
LM3433SQCT-ND	DC-DC Buck Constant Current LED Driver*	24-LLP	6.54	5.35	4.80
LM3433SQTR-ND	DC-DC Buck Constant Current LED Driver*	24-LLP	3052.00/1,000		
LM3445M-ND	Triac Dimmable Offline LED Driver* ***NEW!***	14-SOIC	4.37	3.51	3.20
LM3445MMCT-ND	Triac Dimmable Offline LED Driver*	10-MSOP	4.68	3.83	3.44
LM3445MMTR-ND	Triac Dimmable Offline LED Driver*	10-MSOP	2184.00/1,000		
LM3445-120VSMEV-ND	Evaluation Board for LM3445 110V* ***NEW!***	—	90.44	—	—
LM3445-208277EV-ND	Evaluation Board for LM3445* ***NEW!***	—	90.44	—	—
LM3502ITL-16CT-ND	16V Step-Up Converter for White LED	10-µSMD	6.00	4.90	4.40
LM3502ITL-16TR-ND	16V Step-Up Converter for White LED*	10-µSMD	925.00/250		
LM3502ITL-44EV-ND	Evaluation Board for LM3502ITL-44*	—	107.46	—	—
LM3502SQ-16CT-ND	16V Step-Up Converter for White LED*	16-LLP	6.00	4.90	4.40
LM3502SQ-25CT-ND	25V Step-Up Converter for White LED	16-LLP	6.00	4.90	4.40
LM3502SQ-25TR-ND	25V Step-Up Converter for White LED	16-LLP	2800.00/1,000		
LM3502SQ-35CT-ND	35V Step-Up Converter for White LED*	16-LLP	6.00	4.90	4.40
LM3502SQ-35TR-ND	35V Step-Up Converter for White LED*	16-LLP	2800.00/1,000		
LM3502SQ-44CT-ND	44V Step-Up Converter for White LED*	16-LLP	6.00	4.90	4.40
LM3503ITL-16CT-ND	16V Dual Display Constant Current LED Driver*	10-µSMD	6.00	4.90	4.40
LM3503ITL-25EV-ND	Evaluation Board for LM3503ITL-25*	—	107.46	—	—
LM3503ITL-35CT-ND	35V Dual Display Constant Current LED Driver	10-µSMD	5.00	3.80	2.90
LM3503SQ-16CT-ND	16V Dual Display Constant Current LED Driver	16-LLP	6.00	4.90	4.40
LM3503SQ-16TR-ND	16V Dual Display Constant Current LED Driver	16-LLP	2800.00/1,000		
LM3503SQ-35CT-ND	35V Dual Display Constant Current LED Driver	16-LLP	6.00	4.90	4.40
LM3503SQ-44CT-ND	44V Dual Display Constant Current LED Driver*	16-LLP	6.99	5.71	5.13
LM3508TLCT-ND	Sync. Magnetic Constant Current White LED Driver*	8-µSMD	3.15	2.58	2.31
LM3508TLTR-ND	Sync. Magnetic Constant Current White LED Driver*	8-µSMD	485.75/250		
LM3509SDCT-ND	High Efficiency Boost White LED/OLED*	10-LLP	3.75	3.07	2.75
LM3509SDTR-ND	High Efficiency Boost White LED/OLED*	10-LLP	1750.00/1,000		
LM3519MK-20CT-ND	20V High Frequency Boost White LED Driver*	TSOT-23-6	3.42	2.80	2.51
LM3528TMECT-ND	High Efficiency Multi Display LED Driver*	12-µSMD	3.45	2.82	2.53
LM3528TMETR-ND	High Efficiency Multi Display LED Driver*	12-µSMD	532.00/250		
LM3551SDCT-ND	1A White LED Driver*	14-LLP	3.39	2.77	2.49
LM3551SDTR-ND	1A White LED Driver*	14-LLP	1582.00/1,000		
LM3552SDCT-ND	1A White LED Driver*	14-LLP	3.39	2.77	2.49
LM3552SDTR-ND	1A White LED Driver*	14-LLP	1582.00/1,000		
LM3552SDEV-ND	Evaluation Board for LM3552SD*	—	127.81	—	—
LM3553SDCT-ND	1.2A Dual Flash LED Driver System*	12-LLP	2.66	2.14	1.95
LM3553SDTR-ND	1.2A Dual Flash LED Driver System*	12-LLP	1330.00/1,000		
LM3554TMECT-ND	1.2A Dual Flash LED Driver System* ***NEW!***	16-µSMD	5.22	4.34	3.94
LM3554TMETR-ND	1.2A Dual Flash LED Driver System* ***NEW!***	16-µSMD	837.25/250		
LM3557SD-2CT-ND	Step-Up Converter for White LED Applications*	8-LLP	3.47	2.68	2.43
LM3570SDCT-ND	Low Noise White LED Driver System	14-LLP	3.33	2.53	1.93
LM27951SDCT-ND	White LED Driver*	14-LLP	2.39	1.85	1.68
LM27951SDTR-ND	White LED Driver*	14-LLP	992.00/1,000		
LM27952SDCT-ND	White LED Driver*	14-LLP	2.87	2.22	2.01
LM27952SDTR-ND	White LED Driver*	14-LLP	1189.00/1,000		
LM27964SQ-ACT-ND	White LED Driver System with I^{2}C Compatible*	24-LLP	3.99	3.26	2.93
LM27964SQ-C-CT-ND	White LED Driver System with I^{2}C Compatible* ***NEW!***	24-LLP	3.99	3.26	2.93
LM27964SQ-C-TR-ND	White LED Driver System with I^{2}C Compatible* ***NEW!***	24-LLP	1862.00/1,000		
LM27964SQ-ICT-ND	White LED Driver System with I^{2}C Compatible	24-LLP	3.99	3.26	2.93
LM27964SQ-ITR-ND	White LED Driver System with I^{2}C Compatible	24-LLP	1862.00/1,000		
LM27966SQCT-ND	White LED Driver with I^{2}C Compatible Interface*	24-LLP	3.27	2.68	2.40
LP3936SLCT-ND	Complete Lighting Management System*	32-TCSP	5.43	4.44	3.99
LP3943ISQCT-ND	16-LED Fun Light Driver*	24-LLP	2.93	2.26	2.05
LP3943ISQTR-ND	16-LED Fun Light Driver*	24-LLP	1212.00/1,000		
LP3944ISQCT-ND	8-LED Fun Light Driver*	24-LLP	3.72	3.04	2.73
LP3944ISQTR-ND	8-LED Fun Light Driver*	24-LLP	1736.00/1,000		
LP3950SLCT-ND	Color LED Driver with Audio Synchronizer*	32-TCSP	5.19	4.24	3.81
LP3950SLTR-ND	Color LED Driver with Audio Synchronizer*	32-TCSP	2422.00/1,000		
LP3952RLCT-ND	6-Ch. Color LED Driver, Audio Synchronizer*	36-µSMDxt	3.15	2.58	2.31
LP3952RLTR-ND	6-Ch. Color LED Driver, Audio Synchronizer*	36-µSMDxt	485.75/250		
LP5520TLCT-ND	RGB Backlight LED Driver*	25-µSMD	4.98	4.07	3.66
LP5520TLTR-ND	RGB Backlight LED Driver*	25-µSMD	767.75/250		
LP5521TMCT-ND	3-Channel Programmable LED Driver*	20-µSMD	2.84	2.19	1.99
LP5521TMTR-ND	3-Channel Programmable LED Driver*	20-µSMD	405.00/250		
LP5521YQCT-ND	3-Channel Programmable LED Driver*	24-LLP	2.84	2.19	1.99
LP5521YQTR-ND	3-Channel Programmable LED Driver*	24-LLP	1175.00/1,000		
LP5522TMCT-ND	Single Channel Programmable LED Driver*	6-µSMD	1.63	1.29	1.16
LP5522TMTR-ND	Single Channel Programmable LED Driver*	6-µSMD	230.00/250		
LP5526TLCT-ND	Lighting Mgmt. Unit, High Volt. Boost Converter*	25-µSMD	5.70	4.66	4.18
LP5526TLTR-ND	Lighting Mgmt. Unit, High Volt. Boost Converter*	25-µSMD	878.75/250		
LP5527TLCT-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^{2}C Programmability*	30-µSMD	5.43	4.44	3.99
LP5527TLTR-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^{2}C Programmability*	30-µSMD	837.25/250		
LP55271TLCT-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^{2}C Programmability*	30-µSMD	2.50	1.93	1.75
LP55271TLTR-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^{2}C Programmability*	30-µSMD	356.50/250		
LP55281RLCT-ND	Quad RGB LED Driver, Audio Synchronizer* ***NEW!***	36-µSMDxt	3.16	2.44	2.22
LP55281RLTR-ND	Quad RGB LED Driver, Audio Synchronizer* ***NEW!***	36-µSMDxt	451.50/250		
LP55281TLCT-ND	Quad RGB LED Driver, Audio Synchronizer*	36-µSMD	3.16	2.44	2.22
LP55281TLTR-ND	Quad RGB LED Driver, Audio Synchronizer*	36-µSMD	451.50/250		
LP8501TMECT-ND	Multi-Purpose Linear 9-LED Driver* ***NEW!***	25-µSMD	3.60	2.94	2.64
LP8501TMETR-ND	Multi-Purpose Linear 9-LED Driver* ***NEW!***	25-µSMD	555.00/250		

National Semiconductor Digi-Reel®

POWER MANAGEMENT LINEAR / LDO

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM78L05ACM-ND	5V, 100mA Positive Regulator*	8-SOIC	.80	.62	.54
LM78L05ACMXCT-ND	5V, 100mA Positive Regulator*	8-SOIC	.88	.68	.60
LM78L05ACMXTR-ND	5V, 100mA Positive Regulator*	8-SOIC	725.00/2,500		
LM78L05ACZNS-ND	5V, 100mA Positive Regulator*	TO-92-3	.80	.62	.54
LM78L05ITPCT-ND	3-Terminal Positive Regulator*	8-µSMD	1.20	.88	.64
LM78L12ACM-ND	12V, 100mA Positive Regulator*	8-SOIC	.80	.62	.54
LM78L12ACMXTR-ND	12V, 100mA Positive Regulator*	8-SOIC	725.00/2,500		
LM78L12ACZ/NOPB-ND	12V, 100mA Voltage Regulator*	TO-92-3	.80	.62	.54
LM78L15ACM/NOPB-ND	15V, 100mA Positive Regulator*	8-SOIC	.86	.67	.58
LM78L15ACMXCT-ND	15V, 100mA Positive Regulator*	8-SOIC	.94	.73	.65
LM78L15ACMXTR-ND	15V, 100mA Positive Regulator*	8-SOIC	775.00/2,500		
LM78L15ACZ-ND	15V, 100mA Positive Regulator*	TO-92-3	.86	.67	.58
LM78L62ACZ-ND	6.2V, 100mA Positive Regulator*	TO-92-3	1.16	.93	.81
LM78M05CDT-ND	5V, 500mA Positive Regulator*	TO-252	1.66	1.33	1.16
LM78S40CN-ND	Universal Switching Regulator Subsystem*	16-Dip	1.87	1.51	1.36
LM78S40N-ND	Universal Switching Regulator Subsystem, Ind. Temp.*	16-Dip	2.33	1.88	1.69
LM79L05ACM-ND	5V, 100mA Negative Regulator*	8-SOIC	.96	.75	.65
LM79L05ACMXTR-ND	5V, 100mA Negative Regulator*	8-SOIC	870.00/2,500		
LM79L12ACM-ND	12V, 100mA Negative Regulator*	8-SOIC	.96	.75	.65
LM79L12ACMXCT-ND	12V, 100mA Negative Regulator* ***NEW!***	8-SOIC	1.01	.79	.69
LM79L15ACM-ND	15V, 100mA 3-Terminal Negative Regulator* ***NEW!***	8-SOIC	.96	.75	.65
LM79M12CT-ND	12V, 500mA Negative Voltage Regulator*	TO-220-3	1.72	1.38	1.21
LM117H-ND	500mA Positive Adjustable Voltage Regulator*	TO-39	11.33	9.29	8.39
LM117K STEEL-ND	Positive Adjustable Voltage Regulator*	TO-3	37.40	31.79	29.46
LM120H-5.0-ND	0.5A, 3-Terminal Negative Voltage Regulator*	TO-39	12.54	10.55	9.69
LM137H-ND	0.5A, 3-Terminal Negative Voltage Regulator*	TO-39	11.88	9.99	9.18
LM140K-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-3	37.20	31.62	29.30
LM140K-12-ND	12V, 1.5A Positive Voltage Regulator*	TO-3	37.20	31.62	29.30
LM140LAH-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-39	11.08	9.09	8.20
LM140LAH-12-ND	12V, 100mA Positive Voltage Regulator*	TO-39	11.08	9.09	8.20
LM150K STEEL-ND	3A, Positive Adjustable Voltage Regulator*	TO-3	37.40	31.79	29.46
LM309H-ND	5V Voltage Regulator*	TO-39	11.30	9.27	8.37
LM309K STEEL-ND	+5V, 1.5A Voltage Regulator*	TO-3	37.20	31.62	29.30
LM317AEMPCT-ND	3-Terminal Adjustable Regulator*	SOT-223	2.13	1.65	1.50
LM317AEMPTR-ND	3-Terminal Adjustable Regulator*	SOT-223	883.00/1,000		
LM317AEMPXCT-ND	3-Terminal Adjustable Regulator*	SOT-223	2.13	1.65	1.50
LM317AEMPXTR-ND	3-Terminal Adjustable Regulator*	SOT-223	1644.00/2,000		
LM317AH-ND	500mA Positive Adjustable Voltage Regulator*	TO-39	11.33	9.29	8.39
LM317AMDT-ND	500mA Positive Adjustable Voltage Regulator*	TO-252	1.71	1.38	1.24
LM317AT-ND	1.5A Positive Adjustable Voltage Regulator*	TO-220-3	1.86	1.50	1.35
LM317EMPCT-ND	1A Positive Adjustable Voltage Regulator*	SOT-223	1.60	1.26	1.14
LM317EMPTR-ND	1A Positive Adjustable Voltage Regulator*	SOT-223	630.00/1,000		
LM317H-ND	500mA Positive Adjustable Voltage Regulator*	TO-39	11.33	9.29	8.39
LM317HVH-ND	High Voltage 500mA, Adjustable Voltage Regulator*	TO-39	11.60	9.52	8.59
LM317HVK STEEL-ND	High Voltage 1.5A, Adjustable Voltage Regulator*	TO-3	37.40	31.79	29.46
LM317HVT-ND	High Voltage 1.5A, Adjustable Voltage Regulator*	TO-220-3	2.95	2.38	2.14
LM317K STEEL-ND	1.5A Positive Adjustable Voltage Regulator*	TO-3	37.40	31.79	29.46
LM317LICT-ND	3-Terminal Adjustable Regulator*	6-µSMD	1.06	.84	.76
LM317LITR-ND	3-Terminal Adjustable Regulator*	6-µSMD	150.50/250		
LM317LM-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	.96	.75	.65
LM317LMXCT-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	1.06	.82	.72
LM317LMXTR-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	870.00/2,500		
LM317LZNS-ND	100mA Positive Adjustable Voltage Regulator*	TO-92-3	.84	.66	.57
LM317MDTNS-ND	3-Terminal Adjustable Regulator*	TO-252	1.61	1.29	1.13
LM317S-ND	3-Terminal Adjustable Regulator*	TO-263	2.02	1.63	1.47
LM317SXCT-ND	3-Terminal Adjustable Regulator*	TO-263	2.28	1.76	1.60
LM317SXTR-ND	3-Terminal Adjustable Regulator*	TO-263	569.00/500		
LM317TNS-ND	1.5A Positive Adjustable Voltage Regulator*	TO-220-3	1.86	1.50	1.35
LM320LZ-5.0-ND	5V, 0.1A Negative Voltage Regulator*	TO-92-3	.96	.75	.65
LM320LZ-12-ND	12V, 0.1A Negative Voltage Regulator*	TO-92-3	.96	.75	.65
LM320LZ-15-ND	15V, 0.1A Negative Voltage Regulator*	TO-92-3	.96	.75	.65
LM320T-15-ND	15V, 1.5A 3-Terminal Negative Voltage Regulator*	TO-220-3	1.67	1.35	1.22
LM323K STEELNS-ND	5V, 3A Positive Voltage Regulator*	TO-3	37.40	31.79	29.46
LM330T-5.0-ND	3-Terminal Positive Regulator*	TO-220-3	1.51	1.21	1.06
LM337IMPCT-ND	1A Negative Adjustable Voltage Regulator*	SOT-223	2.10	1.62	1.47
LM337IMPTR-ND	1A Negative Adjustable Voltage Regulator*	SOT-223	870.00/1,000		
LM337LM-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	.91	.73	.64
LM337LMXCT-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	.99	.78	.71
LM337LMXTR-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	910.00/2,500		
LM337LZ-ND	100mA Negative Adjustable Voltage Regulator*	TO-92-3	.91	.73	.64
LM337TNS-ND	1.5A Negative Adjustable Voltage Regulator*	TO-220-3	2.05	1.65	1.49
LM338K STEEL-ND	5A Adjustable Positive Regulator*	TO-3	50.69	43.84	41.10
LM338T-ND	5A Adjustable Positive Regulator*	TO-220-3	2.45	1.98	1.78
LM340AT-5.0-ND	5V, 1.0A Positive Voltage Regulator*	TO-220-3	1.94	1.57	1.41
LM340K-5.0-ND	5V, 1.0A Positive Voltage Regulator*	TO-3	37.20	31.62	29.30
LM340LAZ-5.0-ND	5V, 100mA Positive Voltage Regulator*	TO-92-3	1.06	.85	.75
LM340MP-5.0CT-ND	5V, 1A Voltage Regulator*	SOT-223	1.76	1.40	1.26
LM340MP-5.0TR-ND	5V, 1A Voltage Regulator*	SOT-223	696.00/1,000		
LM340S-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-263	1.87	1.51	1.36
LM340SX-5.0TR-ND	5V, Series 3-Terminal Positive Regulator*	TO-263	528.50/500		
LM340S-12-ND	12V, Series 3-Terminal Positive Regulator*	TO-263	1.87	1.51	1.36
LM340T-5.0-ND	5V, 1.0A Positive Voltage Regulator (7805)*	TO-220-3	1.87	1.51	1.36
LM340T-12-ND	12V, 1.0A Positive Voltage Regulator (7812)*	TO-220-3	1.87	1.51	1.36
LM340T-15-ND	15V, 1.0A Positive Voltage Regulator (7815)*	TO-220-3	1.87	1.51	1.36
LM341T-5.0-ND	5V, 500mA Voltage Regulator*	TO-220-3	1.72	1.38	1.21
LM341T-15-ND	15V, 500mA Voltage Regulator*	TO-220-3	1.72	1.38	1.21
LM350AT-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-220-3	3.89	3.13	2.85
LM350K STEELNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-3	37.40	31.79	29.46
LM350TNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-220-3	2.11	1.70	1.53
LM723CH-ND	150mA Positive Adjustable Voltage Regulator*	TO-100-10	8.45	6.93	6.26
LM723CNNS-ND	Precision Voltage Regulator*	14-Dip	1.09	.87	.76
LM723H-ND	2V-37V, Adjustable Voltage Regulator*	TO-100-10	8.45	6.93	6.26
LM1084IS-ADJ-ND	Adjustable Voltage 5A Low Dropout Positive Regulator*	TO-263	3.58	2.88	2.63
LM1084IS-3.3-ND	3.3V, 5A LDO Positive Regulator*	TO-263	3.58	2.88	2.63
LM1084IS-5.0-ND	5V, 5A LDO Positive Regulator*	TO-263	3.58	2.88	2.63
LM1084IT-ADJ-ND	Adjustable Voltage 5A LDO Positive Regulator*	TO-220-3	3.61	2.91	2.65
LM1084IT-3.3-ND	3.3V, 5A LDO Positive Regulator*	TO-220-3	3.61	2.91	2.65
LM1084IT-5.0-ND	5V, 5A LDO Positive Regulator*	TO-220-3	3.61	2.91	2.65
LM1085IS-ADJ-ND	Adjustable Voltage 3A Low Dropout Positive Regulator*	TO-263	3.10	2.50	2.25
LM1085IS-3.3-ND	3.3V, 3A LDO Positive Regulator*	TO-263	3.10	2.50	2.25
LM1085IS-5.0-ND	5V, 3A LDO Positive Regulator*	TO-263	3.10	2.50	2.25
LM1085IS-12-ND	12V, 3A LDO Positive Regulator* ***NEW!***	TO-263-3	2.67	2.16	1.94
LM1085IT-ADJ-ND	Adjustable Voltage 3A LDO Positive Regulator*	TO-220-3	2.93	2.36	2.13
LM1085IT-3.3-ND	3.3V, 3A LDO Positive Regulator*	TO-220-3	2.93	2.36	2.13
LM1085IT-5.0-ND	5V, 3A LDO Positive Regulator*	TO-220-3	2.93	2.36	2.13
LM1085IT-12-ND	12V, 3A LDO Positive Regulator*	TO-220-3	2.93	2.36	2.13
LM1086CS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-263	2.45	1.98	1.78

*** *RoHS Compliant***

National Semiconductor DigiReel® (Cont.)

POWER MANAGEMENT LINEAR / LDO

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM1086CS-2.5-ND	2.5V, 1.5A LDO Positive Regulator*	TO-263	2.45	1.98	1.78
LM1086CS-2.85-ND	2.85V, 1.5A LDO Positive Regulator*	TO-263	2.45	1.98	1.78
LM1086CS-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-263	2.45	1.98	1.78
LM1086CS-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-263	2.45	1.98	1.78
LM1086CT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1086CT-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1086CT-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1086IS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-263	2.39	1.93	1.74
LM1086IS-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-263	2.39	1.93	1.74
LM1086IS-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-263	2.39	1.93	1.74
LM1086IT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1086IT-2.85-ND	2.85V, 1.5A LDO Positive Regulator*	TO-220-3	2.42	1.95	1.76
LM1086IT-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1086IT-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-220-3	2.39	1.93	1.74
LM1117DT-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117DT-2.5-ND	2.5V, 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117DT-2.85-ND	2.85V, 800mA LDO Linear Regulator*	TO-252	1.65	1.32	1.16
LM1117DT-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117DT-5.0-ND	5V, 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117DTX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1757.50/2,500		
LM1117IDT-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117IDT-5.0-ND	5.0V, 800mA LDO Linear Regulator*	TO-252	1.76	1.41	1.23
LM1117IMP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117IMP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	584.00/1,000		
LM1117IMP-3.3CT-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117IMP-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	584.00/1,000		
LM1117IMP-5.0CT-ND	5.0V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	584.00/1,000		
LM1117MP-1.8CT-ND	1.8V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MP-1.8TR-ND	1.8V, 800mA LDO Linear Regulator*	SOT-223	584.00/1,000		
LM1117MP-3.3CT-ND	3.3V, 800mA LDO Regulator*	SOT-223	1.48	1.17	1.06
LM1117MP-3.3TR-ND	3.3V, 800mA LDO Regulator*	SOT-223	584.00/1,000		
LM1117MP-5.0CT-ND	5V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MP-5.0TR-ND	5V, 800mA LDO Linear Regulator*	SOT-223	584.00/1,000		
LM1117MPX-2.5CT-ND	2.5V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MPX-2.5TR-ND	2.5V, 800mA LDO Linear Regulator*	SOT-223	1090.00/2,000		
LM1117MPX-3.3CT-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MPX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	1090.00/2,000		
LM1117MPX-5.0CT-ND	5V, 800mA LDO Linear Regulator*	SOT-223	1.48	1.17	1.06
LM1117MPX-5.0TR-ND	5V, 800mA LDO Linear Regulator*	SOT-223	1090.00/2,000		
LM1117S-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-263	1.87	1.51	1.36
LM1117T-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-220-3	1.69	1.37	1.23
LM1117T-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-220-3	1.69	1.37	1.23
LM1117T-5.0-ND	5V, 800mA LDO Linear Regulator*	TO-220-3	1.69	1.37	1.23
LM2930T-5.0-ND	5V, 150mA Positive Regulator*	TO-220-3	1.61	1.29	1.13
LM2931AM-5.0-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	.91	.73	.64
LM2931AMX-5.0CT-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	.99	.78	.71
LM2931AMX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	910.00/2,500		
LM2931AS-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-263	2.54	2.05	1.85
LM2931AT-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-220-3	1.54	1.24	1.08
LM2931AZ-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-92-3	.88	.70	.62
LM2931CM-ND	Adjustable, Low Dropout (0.6V) Regulator*	8-SOIC	.91	.73	.64
LM2931CMXTR-ND	Adjustable, Low Dropout (0.6V) Regulator*	8-SOIC	910.00/2,500		
LM2931CS-ND	Adjustable, Low Dropout (0.6V) Regulator*	TO-263-5	2.42	1.95	1.76
LM2931M-5.0-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	.91	.73	.64
LM2931S-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-263	2.42	1.95	1.76
LM2931T-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-220-3	1.58	1.26	1.11
LM2931Z-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-92-3	.91	.73	.64
LM2936BM-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.14	1.73	1.56
LM2936DT-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	TO-252	2.39	1.93	1.74
LM2936DT-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	TO-252	2.39	1.93	1.74
LM2936DT-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	TO-252	2.39	1.93	1.74
LM2936HVBMA-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.39	1.93	1.74
LM2936HVBMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.39	1.93	1.74
LM2936M-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.11	1.70	1.53
LM2936M-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.11	1.70	1.53
LM2936M-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.11	1.70	1.53
LM2936MM-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.38	1.84	1.67
LM2936MM-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator*	8-MSOP	986.00/1,000		
LM2936MM-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.38	1.84	1.67
LM2936MM-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-MSOP	986.00/1,000		
LM2936MM-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.38	1.84	1.67
LM2936MM-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	8-MSOP	986.00/1,000		
LM2936MP-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	2.70	2.08	1.89
LM2936MP-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	1117.00/1,000		
LM2936MP-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	2.70	2.08	1.89
LM2936MP-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	1117.00/1,000		
LM2936MP-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	SOT-223	2.70	2.08	1.89
LM2936MP-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	SOT-223	1117.00/1,000		
LM2936MX-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.38	1.84	1.67
LM2936MX-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2295.00/2,500		
LM2936Z-3.0-ND	3V, Ultra-Low Quiescent Current Regulator* ***NEW!***	TO-92-3	2.06	1.66	1.50
LM2936Z-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	TO-92-3	2.39	1.93	1.74
LM2936Z-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	TO-92-3	2.39	1.93	1.74
LM2937ES-2.5-ND	2.5V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-3.3-ND	3.3V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-5.0-ND	5V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-8.0-ND	8V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-10-ND	10V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-12-ND	12V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ES-15-ND	15V, 500mA Low Dropout Regulator*	TO-263	2.33	1.88	1.69
LM2937ESX-5.0CT-ND	5V, 500mA Low Dropout Regulator* ***NEW!***	TO-263	2.63	2.03	1.84
LM2937ESX-5.0TR-ND	5V, 500mA Low Dropout Regulator*	TO-263	656.50/500		
LM2937ET-3.3-ND	3.3V, 500mA Low Dropout Regulator*	TO-220-3	1.98	1.60	1.44
LM2937ET-5.0-ND	5V, 500mA High Temp Voltage Regulator*	TO-220-3	1.98	1.60	1.44
LM2937ET-8.0-ND	8V, 500mA High Temp Voltage Regulator*	TO-220-3	1.98	1.60	1.44
LM2937ET-10-ND	10V, 500mA High Temp Voltage Regulator*	TO-220-3	1.98	1.60	1.44
LM2937ET-12-ND	12V, 500mA High Temp Voltage Regulator*	TO-220-3	1.98	1.60	1.44
LM2937IMP-2.5CT-ND	2.5V, 500mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-2.5TR-ND	2.5V, 500mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2937IMP-3.3CT-ND	3.3V, 500mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-3.3TR-ND	3.3V, 500mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2937IMP-5.0CT-ND	5V, 400mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-5.0TR-ND	5V, 400mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2937IMP-8.0CT-ND	8V, 500mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-8.0TR-ND	8V, 500mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2937IMP-10CT-ND	10V, 500mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-10TR-ND	10V, 500mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2937IMP-12CT-ND	12V, 500mA Low Dropout Regulator*	SOT-223	2.06	1.60	1.45
LM2937IMP-12TR-ND	12V, 500mA Low Dropout Regulator*	SOT-223	854.00/1,000		
LM2940CS-5.0-ND	5V, 1A Low Dropout Regulator*	TO-263	2.06	1.67	1.50
LM2940CS-9.0-ND	9V, 1A Low Dropout Regulator*	TO-263	2.06	1.67	1.50
LM2940CS-12-ND	12V, 1A Low Dropout Regulator*	TO-263	2.06	1.67	1.50
LM2940CS-15-ND	15V, 1A Low Dropout Regulator*	TO-263	2.06	1.67	1.50
LM2940CSX-5.0TR-ND	5V, 1A Low Dropout Regulator*	TO-263	583.00/500		
LM2940CT-5.0-ND	5V, 1A Low Dropout Regulator*	TO-220-3	1.77	1.43	1.29
LM2940CT-9.0-ND	9V, 1A Low Dropout Regulator*	TO-220-3	1.77	1.43	1.29
LM2940CT-12-ND	12V, 1A Low Dropout Regulator*	TO-220-3	1.77	1.43	1.29
LM2940CT-15-ND	15V, 1A Low Dropout Regulator*	TO-220-3	1.77	1.43	1.29
LM2940IMP-5.0CT-ND	5V, 1A Low Dropout Regulator*	SOT-223	2.42	1.87	1.70
LM2940IMP-5.0TR-ND	5V, 1A Low Dropout Regulator*	SOT-223	1003.00/1,000		
LM2940IMP-9.0CT-ND	9V, 1A Low Dropout Regulator*	SOT-223	2.42	1.87	1.70
LM2940IMP-9.0TR-ND	9V, 1A Low Dropout Regulator*	SOT-223	1003.00/1,000		
LM2940IMP-10CT-ND	10V, 1A Low Dropout Regulator*	SOT-223	2.42	1.87	1.70
LM2940IMP-10TR-ND	10V, 1A Low Dropout Regulator*	SOT-223	1003.00/1,000		
LM2940IMP-12CT-ND	12V, 1A Low Dropout Regulator*	SOT-223	2.42	1.87	1.70
LM2940IMP-12TR-ND	12V, 1A Low Dropout Regulator*	SOT-223	1003.00/1,000		
LM2940IMP-15CT-ND	15V, 1A Low Dropout Regulator*	SOT-223	2.42	1.87	1.70
LM2940IMP-15TR-ND	15V, 1A Low Dropout Regulator*	SOT-223	1003.00/1,000		
LM2940S-5.0-ND	5V, 1A Low Dropout Regulator*	TO-263	2.31	1.87	1.68
LM2940S-8.0-ND	8V, 1A Low Dropout Regulator*	TO-263	2.43	1.97	1.77
LM2940S-9.0-ND	9V, 1A Low Dropout Regulator*	TO-263	2.43	1.97	1.77
LM2940S-10-ND	10V, 1A Low Dropout Regulator*	TO-263	2.31	1.87	1.68
LM2940S-12-ND	12V, 1A Low Dropout Regulator*	TO-263	2.31	1.87	1.68
LM2940SX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator*	TO-263	653.00/500		
LM2940T-5.0-ND	5V, 1A Low Dropout Voltage Regulator*	TO-220-3	1.89	1.53	1.38
LM2940T-9.0-ND	9V, 1A Low Dropout Voltage Regulator*	TO-220-3	1.89	1.53	1.38
LM2940T-10.0-ND	10V, 1A Low Dropout Voltage Regulator*	TO-220-3	1.89	1.53	1.38
LM2940T-12.0-ND	12V, 1A Low Dropout Voltage Regulator*	TO-220-3	1.89	1.53	1.38
LM2941CS-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.74	2.21	1.99
LM2941CSXTR-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	773.50/500		
LM2941CT-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-220-5	1.94	1.57	1.41
LM2941S-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.22	1.80	1.62
LM2941SXCT-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.51	1.94	1.76
LM2941SXTR-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	627.50/500		
LM2990S-5.0-ND	5V, Negative Low Dropout Regulator*	TO-263	3.58	2.88	2.63
LM2990S-12-ND	12V, Negative Low Dropout Regulator*	TO-263	3.58	2.88	2.63
LM2990S-15-ND	15V, Negative Low Dropout Regulator*	TO-263	3.58	2.88	2.63
LM2990T-5.0-ND	5V, Negative Low Dropout Voltage Regulator*	TO-220-3	3.58	2.88	2.63
LM2990T-5.2-ND	5.2V, Negative Low Dropout Voltage Regulator*	TO-220-3	3.58	2.88	2.63
LM2990T-12-ND	12V, Negative Low Dropout Voltage Regulator*	TO-220-3	3.58	2.88	2.63
LM2990T-15-ND	15V, Negative Low Dropout Voltage Regulator* ***NEW!***	TO-220-23	3.58	2.88	2.63
LM2991S-ND	Neg. Adjustable Low Dropout Voltage Regulator*	TO-263-5	3.58	2.88	2.63
LM2991SXCT-ND	Neg. Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-263-5	3.84	3.14	2.82
LM2991SXTR-ND	Neg. Adjustable Low Dropout Voltage Regulator* ***NEW!***	TO-263-5	1062.50/500		
LM2991T-ND	Neg. Adjustable Low Dropout Voltage Regulator*	TO-220	3.58	2.88	2.63
LM3411M5-5.0CT-ND	5V, Precision Secondary Regulator/Driver*	SOT-23-5	1.82	1.44	1.30
LM3411M5-5.0TR-ND	5V, Precision Secondary Regulator/Driver*	SOT-23-5	720.00/1,000		
LM3480IM3X-12CT-ND	12V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	1.10	.87	.79
LM3480IM3X-12TR-ND	12V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	1218.00/3,000		
LM3480IM3-3.3CT-ND	3.3V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	1.10	.87	.79
LM3480IM3-3.3TR-ND	3.3V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	435.00/1,000		
LM3480IM3-5.0CT-ND	5.0V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	1.10	.87	.79
LM3480IM3-5.0TR-ND	5.0V, 100mA Low Dropout Voltage Regulator*	SOT-23-3	435.00/1,000		
LM3490IM5-3.3CT-ND	3.3V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	1.29	1.02	.92
LM3490IM5-3.3TR-ND	3.3V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	510.00/1,000		
LM3490IM5-5.0/NOPBCT-ND	5V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	1.29	1.02	.92
LM3490IM5-5.0/NOPBTR-ND	5V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	510.00/1,000		
LM3490IM5-12CT-ND	12V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	1.29	1.02	.92
LM3490IM5-12TR-ND	12V, 100mA Quasi LDO Reg., Logic-Controlled ON/OFF*	SOT-23-5	510.00/1,000		
LM3686TLE-AADWCT-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	2.28	1.76	1.60
LM3686TLE-AADWTR-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	325.00/250		
LM3686TLE-AAEDCT-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	2.28	1.76	1.60
LM3686TLE-AAEDTR-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	325.00/250		
LM3686TLE-AAEFCT-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	2.28	1.76	1.60
LM3686TLE-AAEFTR-ND	2.7V ~ 5V, Step-Down DC-DC Converter* ***NEW!***	12-µSMD	325.00/250		
LM3687TL-1815CT-ND	1.8V, Step-Down DC-DC Converter*	9-µSMD	2.50	1.93	1.75
LM3687TL-1815TR-ND	1.8V, Step-Down DC-DC Converter*	9-µSMD	356.50/250		
LM3940IMP-3.3CT-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	SOT-223	1.89	1.46	1.33
LM3940IMP-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	SOT-223	783.00/1,000		
LM3940IS-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-263	2.20	1.78	1.60
LM3940ISX-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-263	621.50/500		
LM3940IT-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-220-3	2.14	1.73	1.56
LM7905CTNS-ND	5V, 1.5A Negative Voltage Regulator*	TO-220-3	1.78	1.44	1.29
LM7912CT-ND	12V, 1.5A Negative Voltage Regulator*	TO-220-3	1.64	1.33	1.20
LM7915CT-ND	15V, 1.5A Negative Voltage Regulator*	TO-220-3	1.64	1.33	1.20
LM9036M-3.3-ND	3.3V, 50mA Ultra Low Quiescent Current Voltage Reg.*	8-SOIC	1.40	1.12	.98
LM9076BMA-3.3-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	8-SOIC	2.77	2.24	2.01
LM9076BMA-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	8-SOIC	2.77	2.24	2.01
LM9076S-3.3-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	2.77	2.24	2.01
LM9076S-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263	2.77	2.24	2.01
LM9076SX-3.3CT-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	3.13	2.42	2.19
LM9076SX-3.3TR-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	781.50/500		
LM26480SQ-AACT-ND	Prog. Dual High Current DC/DC and Dual Linear Reg.*	24-LLP	4.44	3.63	3.26
LM26480SQ-AATR-ND	Prog. Dual High Current DC/DC and Dual Linear Reg.*	24-LLP	2072.00/1,000		
LM26484SQECT-ND	PMU Dual DC/DC and Single Linear Reg.*	24-LLP	5.43	4.44	3.99
LM26484SQETR-ND	PMU Dual DC/DC and Single Linear Reg.*	24-LLP	837.25/250		
LMS1585ACS-3.3-ND	3.3V, 5A LDO Fast Response Regulator*	TO-263	3.22	2.60	2.34
LMS1585ACT-3.3-ND	3.3V, 5A LDO Fast Response Regulator*	TO-220-3	3.16	2.55	2.30
LMS1585AIS-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.*	TO-263	3.22	2.60	2.34
LMS1587CS-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-263	3.01	2.43	2.19
LMS1587CS-1.5-ND	1.5V, 3A LDO Fast Response Regulator*	TO-263	3.01	2.43	2.19
LMS1587CT-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-220-3	2.82	2.28	2.05
LMS1587CT-3.3-ND	3.3V, 3A LDO Fast Response Regulator	TO-220-3	2.82	2.28	2.05
LMS1587IS-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	3.01	2.43	2.19
LMS1587IS-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.*	TO-263	3.01	2.43	2.19
LP2950ACZ-3.0-ND	3V, Series Adjustable Voltage Regulator*	TO-92-3	1.12	.90	.79

* *RoHS Compliant*

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(Continued)

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT LINEAR / LDO

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2950ACZ-3.3-ND	3.3V, Series Adjustable Voltage Regulator*	TO-92-3	1.12	.90	.79
LP2950ACZ-5.0NS-ND	5V, Voltage Regulator*	TO-92-3	1.12	.90	.79
LP2950CDT-3.3-ND	3.3V, Voltage Regulator*	TO-252	1.40	1.12	.98
LP2950CDT-5.0NS-ND	5V, Voltage Regulator*	D-Pak	1.24	.92	.68
LP2950CZ-3.0-ND	3V, Series Adjustable Voltage Regulator*	TO-92-3	1.02	.80	.69
LP2950CZ-3.3-ND	3.3V, Adjustable Voltage Regulator*	TO-92-3	1.02	.80	.69
LP2950CZ-5.0NS-ND	5V, Voltage Regulator*	TO-92-3	1.02	.80	.69
LP2951ACM-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	.99	.80	.70
LP2951ACMXCT-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	1.08	.86	.77
LP2951ACMXTR-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	995.00/2,500		
LP2951ACM-3.0-ND	3V, Series Adjustable Voltage Regulator*	8-SOIC	.99	.80	.70
LP2951ACM-3.3-ND	3.3V, Series Adjustable Voltage Regulator*	8-SOIC	.99	.80	.70
LP2951ACMM-3.0CT-ND	3V, Series Adjustable Voltage Regulator*	8-MSOP	1.16	.92	.83
LP2951ACMM-3.0TR-ND	3V, Series Adjustable Voltage Regulator*	8-MSOP	456.00/1,000		
LP2951ACMM-3.3CT-ND	3.3V, Series Adjustable Voltage Regulator*	8-MSOP	1.16	.92	.83
LP2951ACMM-3.3TR-ND	3.3V, Series Adjustable Voltage Regulator*	8-MSOP	456.00/1,000		
LP2951ACMMCT-ND	Series Adjustable Voltage Regulator*	8-MSOP	1.16	.92	.83
LP2951ACMMTR-ND	Series Adjustable Voltage Regulator*	8-MSOP	456.00/1,000		
LP2951ACN-ND	1.24-29V, Adjustable Voltage Regulator*	8-Dip	1.48	1.19	1.04
LP2951CM-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	.96	.75	.65
LP2951CMXCT-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	1.06	.82	.72
LP2951CMXTR-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	870.00/2,500		
LP2951CM-3.0-ND	3V, Series Adjustable Voltage Regulator*	8-SOIC	.96	.75	.65
LP2951CM-3.3-ND	3.3V, Series Adjustable Voltage Regulator*	8-SOIC	.96	.75	.65
LP2951CMM-3.0CT-ND	3V, Series Adjustable Voltage Regulator	8-MSOP	.98	.72	.52
LP2951CMM-3.3CT-ND	3.3V, Series Adjustable Voltage Regulator*	8-MSOP	1.03	.81	.73
LP2951CMM-3.3TR-ND	3.3V, Series Adjustable Voltage Regulator*	8-MSOP	405.00/1,000		
LP2951CMMCT-ND	Series Adjustable Voltage Regulator*	8-MSOP	1.03	.81	.73
LP2951CMMTR-ND	Series Adjustable Voltage Regulator*	8-MSOP	405.00/1,000		
LP2951CN-ND	Adjustable Voltage Regulator*	8-Dip	1.48	1.19	1.04
LP2952AIM-3.3-ND	3.3V, Adjustable LDO Voltage Regulator*	16-SOIC	4.26	3.42	3.12
LP2952AIM-ND	Adjustable LDO Voltage Regulator*	16-SOIC	4.26	3.42	3.12
LP2952IM-ND	250mA Low Power Adjustable Voltage Regulator*	16-SOIC	2.48	2.00	1.80
LP2953AIM-ND	250mA Low Power Adj. Voltage Reg. (Elect. Improved)*	16-SOIC	5.12	4.12	3.76
LP2953IM-ND	250mA Low Power Adjustable Voltage Regulator*	16-SOIC	2.83	2.28	2.08
LP2954AIS-ND	Adj. Low Dropout Voltage Regulator*	TO-263	5.12	4.12	3.76
LP2954AIT-ND	5.0V, Low Dropout Voltage Regulator*	TO-220-3	5.12	4.12	3.76
LP2954IS-ND	5.0V, Low Dropout Voltage Regulator*	TO-263	3.00	2.41	2.20
LP2954IT-ND	5.0V, Low Dropout Voltage Regulator*	TO-220-3	3.00	2.41	2.20
LP2957AIT-ND	5.0V, LDO Regulator*	TO-220-5	4.76	3.83	3.49
LP2957IS-ND	5.0V, LDO Regulator*	TO-263-5	3.67	2.95	2.69
LP2960IM-3.3-ND	3.3V, .5A LDO Regulator*	16-SOIC	2.80	2.25	2.05
LP2960IM-5.0-ND	5.0V, .5A LDO Regulator, 160ppm*	16-SOIC	2.80	2.25	2.05
LP2966IMM-1833CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V*	8-MSOP	2.63	2.03	1.84
LP2966IMM-1833TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V*	8-MSOP	1089.00/1,000		
LP2966IMM-2525CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V*	8-MSOP	2.63	2.03	1.84
LP2966IMM-2525TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V*	8-MSOP	1089.00/1,000		
LP2966IMM-2828CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V*	8-MSOP	2.63	2.03	1.84
LP2966IMM-2828TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V*	8-MSOP	1089.00/1,000		
LP2966IMM-3030CT-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3325CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V*	8-MSOP	2.63	2.03	1.84
LP2966IMM-3325TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V*	8-MSOP	1089.00/1,000		
LP2966IMM-5050CT-ND	Dual 150mA Ultra LDO Regulator, 5V/5V*	8-MSOP	2.63	2.03	1.84
LP2966IMM-5050TR-ND	Dual 150mA Ultra LDO Regulator, 5V/5V*	8-MSOP	1089.00/1,000		
LP2967ITP-1833CT-ND	Dual 150mA LDO Regulator*	8-µSMD	3.54	2.90	2.60
LP2967ITP-2833CT-ND	Dual 150mA LDO Regulator*	8-µSMD	3.54	2.90	2.60
LP2975AIMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller*	8-MSOP	2.49	1.92	1.74
LP2975AIMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	2.49	1.92	1.74
LP2975AIMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	1030.00/1,000		
LP2975IMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	2.24	1.73	1.57
LP2975IMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	928.00/1,000		
LP2980AIM5-2.5CT-ND	2.5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.92	.72	.63
LP2980AIM5-2.5TR-ND	2.5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	336.00/1,000		
LP2980AIM5-3.0CT-ND	3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.92	.72	.63
LP2980AIM5-3.0TR-ND	3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	336.00/1,000		
LP2980AIM5-3.3CT-ND	3.3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.92	.72	.63
LP2980AIM5-3.3TR-ND	3.3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	336.00/1,000		
LP2980AIM5-5.0CT-ND	5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.92	.72	.63
LP2980AIM5-5.0TR-ND	5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	336.00/1,000		
LP2980IM5-ADJCT-ND	Adj., 50mA Ultra LDO Regulator*	SOT-23-5	.92	.72	.63
LP2980IM5-ADJTR-ND	Adj., 50mA Ultra LDO Regulator*	SOT-23-5	336.00/1,000		
LP2980IM5-2.5CT-ND	2.5V, 50mA Ultra LDO Regulator*	SOT-23-5	.92	.72	.63
LP2980IM5-2.5TR-ND	2.5V, 50mA Ultra LDO Regulator*	SOT-23-5	336.00/1,000		
LP2980IM5-3.0/NOPBCT-ND	3V, 50mA Ultra LDO Regulator*	SOT-23-5	.92	.72	.63
LP2980IM5-3.0/NOPBTR-ND	3V, 50mA Ultra LDO Regulator*	SOT-23-5	336.00/1,000		
LP2980IM5-3.3CT-ND	3.3V, 50mA Ultra LDO Regulator*	SOT-23-5	.92	.72	.63
LP2980IM5-3.3TR-ND	3.3V, 50mA Ultra LDO Regulator*	SOT-23-5	336.00/1,000		
LP2980IM5-5.0CT-ND	5V, 50mA Ultra LDO Regulator*	SOT-23-5	.92	.72	.63
LP2980IM5-5.0TR-ND	5V, 50mA Ultra LDO Regulator*	SOT-23-5	336.00/1,000		
LP2981AIM5-2.5CT-ND	2.5V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.15	.91	.82
LP2981AIM5-2.5TR-ND	2.5V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	453.00/1,000		
LP2981AIM5-3.0CT-ND	3V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.15	.91	.82
LP2981AIM5-3.0TR-ND	3V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	453.00/1,000		
LP2981AIM5-3.3CT-ND	3.3V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.15	.91	.82
LP2981AIM5-3.3TR-ND	3.3V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	453.00/1,000		
LP2981AIM5-3.6CT-ND	3.6V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.15	.91	.82
LP2981AIM5-3.6TR-ND	3.6V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	453.00/1,000		
LP2981AIM5-5.0CT-ND	5V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.15	.91	.82
LP2981AIM5-5.0TR-ND	5V, 100mA Ultra LDO Regulator, A Grade*	SOT-23-5	453.00/1,000		
LP2981IM5-2.5CT-ND	2.5V, 100mA Ultra LDO Regulator*	SOT-23-5	1.11	.88	.80
LP2981IM5-2.5TR-ND	2.5V, 100mA Ultra LDO Regulator*	SOT-23-5	440.00/1,000		
LP2981IM5-3.0CT-ND	3V, 100mA Ultra LDO Regulator*	SOT-23-5	1.11	.88	.80
LP2981IM5-3.0TR-ND	3V, 100mA Ultra LDO Regulator*	SOT-23-5	440.00/1,000		
LP2981IM5-3.6/NOPBCT-ND	3.6V, 100mA Ultra LDO Regulator*	SOT-23-5	1.11	.88	.80
LP2981IM5-3.6/NOPBTR-ND	3.6V, 100mA Ultra LDO Regulator*	SOT-23-5	440.00/1,000		
LP2981IM5-5.0CT-ND	5V, 100mA Ultra LDO Regulator*	SOT-23-5	1.11	.88	.80
LP2981IM5-5.0TR-ND	5V, 100mA Ultra LDO Regulator*	SOT-23-5	440.00/1,000		
LP2982AIM5-3.0CT-ND	3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.22	.96	.87
LP2982AIM5-3.0TR-ND	3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	480.00/1,000		
LP2982AIM5-3.3CT-ND	3.3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.22	.96	.87
LP2982AIM5-3.3TR-ND	3.3V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	480.00/1,000		
LP2982AIM5-5.0CT-ND	5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.22	.96	.87
LP2982AIM5-5.0TR-ND	5V, 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	480.00/1,000		
LP2982IM5-3.0CT-ND	3V, 50mA Ultra LDO Regulator*	SOT-23-5	1.06	.84	.76
LP2982IM5-3.0TR-ND	3V, 50mA Ultra LDO Regulator*	SOT-23-5	420.00/1,000		
LP2982IM5-3.3CT-ND	3.3V, 50mA Ultra LDO Regulator*	SOT-23-5	1.06	.84	.76
LP2982IM5-3.3TR-ND	3.3V, 50mA Ultra LDO Regulator*	SOT-23-5	420.00/1,000		
LP2983AIM5-1.0CT-ND	1.0V, 150mA Voltage Regulator*	SOT-23-5	1.75	1.38	1.25
LP2983AIM5-1.0TR-ND	1.0V, 150mA Voltage Regulator*	SOT-23-5	690.00/1,000		
LP2983AIM5-1.2CT-ND	1.2V, 150mA Voltage Regulator*	SOT-23-5	1.75	1.38	1.25
LP2983AIM5-1.2TR-ND	1.2V, 150mA Voltage Regulator*	SOT-23-5	690.00/1,000		
LP2983IM5-1.2CT-ND	1.2V, 150mA Voltage Regulator*	SOT-23-5	1.71	1.35	1.22
LP2983IM5-1.2TR-ND	1.2V, 150mA Voltage Regulator*	SOT-23-5	675.00/1,000		
LP2985AIM5-1.5CT-ND	1.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-1.5TR-ND	1.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-2.5/NOPBCT-ND	2.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-2.5/NOPBTR-ND	2.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-2.7CT-ND	2.7V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-2.7TR-ND	2.7V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-2.8CT-ND	2.8V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-2.8TR-ND	2.8V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-2.9CT-ND	2.9V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-2.9TR-ND	2.9V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.0CT-ND	3V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-3.0TR-ND	3V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.1CT-ND	3.1V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-3.1TR-ND	3.1V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.2CT-ND	3.2V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-3.2TR-ND	3.2V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.3CT-ND	3.3V, 150mA LN Ultra LDO Regulator, A Grade*.	SOT-23-5	1.06	.82	.72
LP2985AIM5-3.3TR-ND	3.3V, 150mA LN Ultra LDO Regulator, A Grade.*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.6CT-ND	3.6V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	.91	.72	.65
LP2985AIM5-3.6TR-ND	3.6V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-3.8CT-ND	3.8V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-3.8TR-ND	3.8V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-4.0CT-ND	4.0V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.01	.79	.69
LP2985AIM5-4.0TR-ND	4.0V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-4.5CT-ND	4.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-4.5TR-ND	4.5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-5.0CT-ND	5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-5.0TR-ND	5V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AIM5-6.1CT-ND	6.1V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	1.06	.82	.72
LP2985AIM5-6.1TR-ND	6.1V, 150mA LN Ultra LDO Regulator, A Grade*	SOT-23-5	384.00/1,000		
LP2985AITP-3.0CT-ND	3V, 150mA LN Ultra LDO Regulator, A Grade*	5-µSMD	1.06	.82	.72
LP2985AITP-3.0TR-ND	3V, 150mA LN Ultra LDO Regulator, A Grade*	5-µSMD	141.00/250		
LP2985IM5-1.8CT-ND	1.8V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-1.8TR-ND	1.8V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-2.0CT-ND	2.0V, 150mA LN Ultra LDO Regulator	SOT-23-5	.87	.69	.63
LP2985IM5-2.0TR-ND	2.0V, 150mA LN Ultra LDO Regulator	SOT-23-5	368.00/1,000		
LP2985IM5-2.5CT-ND	2.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-2.5TR-ND	2.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-2.6CT-ND	2.6V, 150mA LN Ultra LDO Regulator	SOT-23-5	.97	.75	.66
LP2985IM5-2.7CT-ND	2.7V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-2.7TR-ND	2.7V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-2.8CT-ND	2.8V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-2.8TR-ND	2.8V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-3.0CT-ND	3V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-3.0TR-ND	3V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-3.3CT-ND	3.3V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-3.3TR-ND	3.3V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-3.5CT-ND	3.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-3.5TR-ND	3.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-3.6CT-ND	3.6V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-3.6TR-ND	3.6V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-4.0CT-ND	4V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-4.0TR-ND	4V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-4.5CT-ND	4.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-4.5TR-ND	4.5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2985IM5-5.0CT-ND	5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	1.01	.79	.69
LP2985IM5-5.0TR-ND	5V, 150mA LN Ultra LDO Regulator*	SOT-23-5	368.00/1,000		
LP2986AIM-3.0-ND	3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-SOIC	2.11	1.70	1.53
LP2986AIM-3.3-ND	3.3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-SOIC	2.11	1.70	1.53
LP2986AIM-5.0-ND	5V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-SOIC	2.11	1.70	1.53
LP2986AIMM-3.0CT-ND	3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	3.15	2.43	2.21
LP2986AIMM-3.0TR-ND	3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	1305.00/1,000		
LP2986AIMM-3.3CT-ND	3.3V, 200mA Ultra LDO Fix or Adj. Volt. Regulator*	8-MSOP	3.15	2.43	2.21
LP2986AIMM-3.3TR-ND	3.3V, 200mA Ultra LDO Fix or Adj. Volt. Regulator*	8-MSOP	1305.00/1,000		
LP2986AIMM-5.0CT-ND	5V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	3.15	2.43	2.21
LP2986AIMM-5.0TR-ND	5V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	1305.00/1,000		
LP2986IM-3.0-ND	3V, 200mA Ultra LDO Regulator*	8-SOIC	1.98	1.60	1.44
LP2986IM-3.3-ND	3.3V, 200mA Ultra LDO Regulator*	8-SOIC	1.98	1.60	1.44
LP2986IM-5.0-ND	5V, 200mA Ultra LDO Regulator*	8-SOIC	1.98	1.60	1.44
LP2986IMM-3.0CT-ND	3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	2.49	1.92	1.74
LP2986IMM-3.0TR-ND	3V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	1030.00/1,000		
LP2986IMM-3.3CT-ND	3.3V, 200mA Ultra LDO Fix or Adj. Volt. Regulator*	8-MSOP	2.49	1.92	1.74
LP2986IMM-3.3TR-ND	3.3V, 200mA Ultra LDO Fix or Adj. Volt. Regulator*	8-MSOP	1030.00/1,000		
LP2986IMM-5.0CT-ND	5V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	2.49	1.92	1.74
LP2986IMM-5.0TR-ND	5V, 200mA Ultra LDO Fixed or Adj. Volt. Regulator*	8-MSOP	1030.00/1,000		
LP2987IM-3.3-ND	3.3V, 200mA Ultra LDO Regulator, 1% Accuracy*	8-SOIC	1.98	1.60	1.44
LP2987IM-5.0-ND	5.0V, 200mA Ultra LDO Regulator, 1% Accuracy*	8-SOIC	1.98	1.60	1.44
LP2988AIM-5.0-ND	5V, 200mA Ultra LDO Regulator, .5% Accuracy*	8-SOIC	2.20	1.78	1.60
LP2988IM-5.0-ND	5.0V, 200mA Ultra LDO Regulator, 1% Accuracy*	8-SOIC	2.14	1.73	1.56
LP2989AILD-3.0CT-ND	3V, 500mA Low Noise Ultra LDO Regulator* ***NEW!***	8-LLP	3.12	2.55	2.29
LP2989AILD-3.0TR-ND	3V, 500mA Low Noise Ultra LDO Regulator* ***NEW!***	8-LLP	1456.00/1,000		
LP2989AILD-3.3CT-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	3.12	2.55	2.29
LP2989AILD-3.3TR-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	1456.00/1,000		
LP2989AILD-5.0CT-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	3.12	2.55	2.29
LP2989AILD-5.0TR-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	1456.00/1,000		
LP2989AIM-1.8-ND	1.8V, 500mA Low Noise Ultra LDO Regulator*	8-SOIC	2.83	2.28	2.06
LP2989AIM-2.5-ND	2.5V, 500mA Low Noise Ultra LDO Regulator*	8-SOIC	2.83	2.28	2.06
LP2989AIM-3.0-ND	3V, 500mA Low Noise Ultra LDO Regulator*	8-SOIC	2.83	2.28	2.06
LP2989AIM-3.3-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-SOIC	2.83	2.28	2.06
LP2989AIM-5.0-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-SOIC	2.83	2.28	2.06
LP2989AIMM-3.0CT-ND	3V, 500mA Low Noise Ultra LDO Regulator	8-MSOP	3.49	2.70	2.45
LP2989AIMM-3.0TR-ND	3V, 500mA Low Noise Ultra LDO Regulator	8-MSOP	1447.00/1,000		
LP2989AIMM-3.3CT-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-MSOP	3.49	2.70	2.45
LP2989AIMM-3.3TR-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-MSOP	1447.00/1,000		
LP2989AIMM-5.0CT-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-MSOP	3.49	2.70	2.45
LP2989AIMM-5.0TR-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-MSOP	1447.00/1,000		
LP2989ILD-2.5CT-ND	2.5V, 500mA Low Noise Ultra LDO Regulator	8-LLP	3.06	2.50	2.25
LP2989ILD-2.5TR-ND	2.5V, 500mA Low Noise Ultra LDO Regulator	8-LLP	1428.00/1,000		
LP2989ILD-3.0CT-ND	3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	3.06	2.50	2.25
LP2989ILD-3.0TR-ND	3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	1428.00/1,000		
LP2989ILD-3.3CT-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	3.06	2.50	2.25

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2989ILD-3.3TR-ND	3.3V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	1428.00/1,000		
LP2989ILD-5.0CT-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	3.06	2.50	2.25
LP2989ILD-5.0TR-ND	5V, 500mA Low Noise Ultra LDO Regulator*	8-LLP	1428.00/1,000		
LP2989IM-1.8-ND	1.8V, 500mA LN Ultra LDO Regulator*	8-SOIC	2.77	2.24	2.01
LP2989IM-2.5-ND	2.5V, 500mA LN Ultra LDO Regulator*	8-SOIC	2.77	2.24	2.01
LP2989IM-3.0-ND	3V, 500mA LN Ultra LDO Regulator*	8-SOIC	2.77	2.24	2.01
LP2989IM-3.3-ND	3.3V, 500mA LN Ultra LDO Regulator*	8-SOIC	2.77	2.24	2.01
LP2989IM-5.0-ND	5V, 500mA LN Ultra LDO Regulator*	8-SOIC	2.77	2.24	2.01
LP2989IMM-2.8CT-ND	2.8V, 500mA LN Ultra LDO Regulator	8-MSOP	3.39	2.62	2.38
LP2989IMM-2.8TR-ND	2.8V, 500mA LN Ultra LDO Regulator	8-MSOP	1405.00/1,000		
LP2989IMM-3.0CT-ND	3V, 500mA LN Ultra LDO Regulator*	8-MSOP	3.39	2.62	2.38
LP2989IMM-3.0TR-ND	3V, 500mA LN Ultra LDO Regulator*	8-MSOP	1405.00/1,000		
LP2989IMM-3.3CT-ND	3.3V, 500mA LN Ultra LDO Regulator*	8-MSOP	3.39	2.62	2.38
LP2989IMM-3.3TR-ND	3.3V, 500mA LN Ultra LDO Regulator*	8-MSOP	1405.00/1,000		
LP2989IMM-5.0CT-ND	5V, 500mA LN Ultra LDO Regulator*	8-MSOP	3.39	2.62	2.38
LP2989IMM-5.0TR-ND	5V, 500mA LN Ultra LDO Regulator*	8-MSOP	1405.00/1,000		
LP2992AILD-1.5CT-ND	1.5V, 250mA LN Ultra LDO Regulator*	6-LLP	1.72	1.36	1.23
LP2992AILD-1.5TR-ND	1.5V, 250mA LN Ultra LDO Regulator*	6-LLP	680.00/1,000		
LP2992AILD-1.8CT-ND	1.8V, 250mA LN Ultra LDO Regulator*	6-LLP	1.72	1.36	1.23
LP2992AILD-1.8TR-ND	1.8V, 250mA LN Ultra LDO Regulator*	6-LLP	680.00/1,000		
LP2992AILD-3.3CT-ND	3.3V, 250mA LN Ultra LDO Regulator*	6-LLP	1.72	1.36	1.23
LP2992AILD-3.3TR-ND	3.3V, 250mA LN Ultra LDO Regulator*	6-LLP	680.00/1,000		
LP2992AILD-5.0CT-ND	5V, 250mA LN Ultra LDO Regulator*	6-LLP	1.72	1.36	1.23
LP2992AILD-5.0TR-ND	5V, 250mA LN Ultra LDO Regulator*	6-LLP	680.00/1,000		
LP2992AIM5-1.5CT-ND	1.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.53	1.21	1.09
LP2992AIM5-1.5TR-ND	1.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	605.00/1,000		
LP2992AIM5-1.8CT-ND	1.8V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.53	1.21	1.09
LP2992AIM5-1.8TR-ND	1.8V, 250mA LN Ultra LDO Regulator*	SOT-23-5	605.00/1,000		
LP2992AIM5-2.5CT-ND	2.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.53	1.21	1.09
LP2992AIM5-2.5TR-ND	2.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	605.00/1,000		
LP2992AIM5-3.3CT-ND	3.3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.53	1.21	1.09
LP2992AIM5-3.3TR-ND	3.3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	605.00/1,000		
LP2992AIM5-5.0CT-ND	5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.53	1.21	1.09
LP2992AIM5-5.0TR-ND	5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	605.00/1,000		
LP2992ILD-1.8CT-ND	1.8V, 250mA LN Ultra LDO Regulator* ***NEW!***	6-LLP	1.68	1.33	1.20
LP2992ILD-1.8TR-ND	1.8V, 250mA LN Ultra LDO Regulator* ***NEW!***	6-LLP	665.00/1,000		
LP2992ILD-2.5CT-ND	2.5V, 250mA LN Ultra LDO Regulator* ***NEW!***	6-LLP	1.68	1.33	1.20
LP2992ILD-2.5TR-ND	2.5V, 250mA LN Ultra LDO Regulator* ***NEW!***	6-LLP	665.00/1,000		
LP2992ILD-3.3CT-ND	3.3V, 250mA LN Ultra LDO Regulator*	6-LLP	1.68	1.33	1.20
LP2992ILD-3.3TR-ND	3.3V, 250mA LN Ultra LDO Regulator*	6-LLP	665.00/1,000		
LP2992ILD-5.0CT-ND	5V, 250mA LN Ultra LDO Regulator*	6-LLP	1.68	1.33	1.20
LP2992ILD-5.0TR-ND	5V, 250mA LN Ultra LDO Regulator*	6-LLP	665.00/1,000		
LP2992IM5-1.5CT-ND	1.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-1.5TR-ND	1.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP2992IM5-1.8CT-ND	1.8V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-1.8TR-ND	1.8V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP2992IM5-2.5CT-ND	2.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-2.5TR-ND	2.5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP2992IM5-3.0CT-ND	3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-3.0TR-ND	3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP2992IM5-3.3CT-ND	3.3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-3.3TR-ND	3.3V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP2992IM5-5.0CT-ND	5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	1.49	1.18	1.06
LP2992IM5-5.0TR-ND	5V, 250mA LN Ultra LDO Regulator*	SOT-23-5	588.00/1,000		
LP3852EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.86	3.97	3.57
LP3852EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2268.00/1,000		
LP3852EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.86	3.97	3.57
LP3852EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2268.00/1,000		
LP3852EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.86	3.97	3.57
LP3852EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2268.00/1,000		
LP3852EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.86	3.97	3.57
LP3852EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2268.00/1,000		
LP3852ES-1.8-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3852ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3852ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3852ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3852ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3852ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3852ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3852ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3853ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.80	5.47	4.99
LP3853ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.80	5.47	4.99
LP3853ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.80	5.47	4.99
LP3853ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.80	5.47	4.99
LP3853ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.80	5.47	4.99
LP3853ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.80	5.47	4.99
LP3853ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.80	5.47	4.99
LP3853ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.80	5.47	4.99
LP3855EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.98	4.07	3.66
LP3855EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2324.00/1,000		
LP3855EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.98	4.07	3.66
LP3855EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2324.00/1,000		
LP3855EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.98	4.07	3.66
LP3855EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2324.00/1,000		
LP3855EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.98	4.07	3.66
LP3855EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2324.00/1,000		
LP3855EMP-ADJCT-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	5.28	4.32	3.88
LP3855EMP-ADJTR-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2464.00/1,000		
LP3855ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3855ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3855ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3855ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.68	3.76	3.43
LP3855ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.93	3.96	3.61
LP3855ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3855ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.68	3.76	3.43
LP3855ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.93	3.96	3.61
LP3856ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.69	5.38	4.90
LP3856ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.69	5.38	4.90
LP3856ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.69	5.38	4.90
LP3856ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.69	5.38	4.90
LP3856ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.69	5.38	4.90
LP3856ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.69	5.38	4.90
LP3856ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	6.69	5.38	4.90
LP3856ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator* ***NEW!***	TO-220-5	6.69	5.38	4.90
LP3871EMP-1.8CT-ND	1.8V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3871EMP-1.8TR-ND	1.8V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3871EMP-2.5CT-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3871EMP-2.5TR-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3871EMP-3.3CT-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3871EMP-3.3TR-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3871EMP-5.0CT-ND	5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3871ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3871ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3871ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3872EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3872EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3872EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3872EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3872EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3872EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3872EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3872EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3872ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3872ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3872ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3872ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3873ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3873ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3873ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator* ***NEW!***	TO-263-5	4.23	3.40	3.10
LP3873ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3874EMP-1.8CT-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3874EMP-1.8TR-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3874EMP-2.5CT-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3874EMP-2.5TR-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3874EMP-3.3CT-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3874EMP-3.3TR-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3874EMP-5.0CT-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3874EMP-5.0TR-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3874EMP-ADJCT-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.36	2.60	2.36
LP3874EMP-ADJTR-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1392.00/1,000		
LP3874ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3874ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3874ES-ADJ-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3875EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3875EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3875EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3875EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3875EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3875EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3875EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.72	3.04	2.73
LP3875EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1736.00/1,000		
LP3875EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.45	2.82	2.53
LP3875EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1610.00/1,000		
LP3875ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3875ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3875ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3875ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3875ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.86	3.11	2.83
LP3876ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3876ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3876ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3876ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3876ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.90	3.94	3.59
LP3876ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.90	3.94	3.59
LP3878MR-ADJ-ND	Adj., 800mA, LN, Ceramic Stable Voltage Regulator*	8-PSOP	2.50	2.02	1.82
LP3878SD-ADJCT-ND	Adj., 800mA, LN, Ceramic Stable Voltage Regulator*	8-LLP	2.84	2.19	1.99
LP3878SD-ADJTR-ND	Adj., 800mA, LN, Ceramic Stable Voltage Regulator*	8-LLP	1175.00/1,000		
LP3879MR-1.0-ND	1V, 800mA Low Noise Voltage Regulator*	8-PSOP	2.50	2.02	1.82
LP3879MR-1.2-ND	1.2V, 800mA Low Noise Voltage Regulator*	8-PSOP	2.50	2.02	1.82
LP3879SD-1.0CT-ND	1V, 800mA Low Noise Voltage Regulator*	8-LLP	2.83	2.19	1.98
LP3879SD-1.0TR-ND	1V, 800mA Low Noise Voltage Regulator*	8-LLP	1172.00/1,000		
LP3879SD-1.2CT-ND	1.2V, 800mA Low Noise Voltage Regulator*	8-LLP	2.83	2.19	1.98
LP3879SD-1.2TR-ND	1.2V, 800mA Low Noise Voltage Regulator*	8-LLP	1172.00/1,000		
LP3881ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	5.26	4.23	3.86
LP3881ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	5.26	4.23	3.86
LP3882EMR-1.2-ND	1.2V, 1.5A Fast Response LDO Linear Regulator*	8-PSOP	5.21	4.19	3.82
LP3882EMR-1.5-ND	1.5V, 1.5A Fast Response LDO Linear Regulator*	8-PSOP	5.21	4.19	3.82
LP3882ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	5.21	4.19	3.82
LP3882ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	5.21	4.19	3.82
LP3883ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.41	5.16	4.70
LP3883ES-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	6.41	5.16	4.70
LP3891EMR-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	3.39	2.73	2.49
LP3891EMR-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	3.39	2.73	2.49
LP3891ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.39	2.73	2.49
LP3891ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	3.39	2.73	2.49
LP3892EMR-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.72	3.00	2.73
LP3892EMR-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.72	3.00	2.73
LP3892EMR-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.95	3.18	2.90
LP3892ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.95	3.18	2.90
LP3892ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.95	3.18	2.90
LP3893ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.96	3.99	3.63
LP3906SQ-DJXICT-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	5.25	4.29	3.85
LP3906SQ-DJXITR-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	2450.00/1,000		
LP3906SQ-JXXICT-ND	Dual High Current Buck DC-DC and Dual Linear Reg.*	24-LLP	5.25	4.29	3.85
LP3906SQ-JXXITR-ND	Dual High Current Buck DC-DC and Dual Linear Reg.*	24-LLP	2450.00/1,000		
LP3906SQ-PPXPCT-ND	Dual High Current Buck DC-DC and Dual Linear Reg.* ***NEW!***	24-LLP	5.25	4.29	3.85
LP3906SQ-PPXPTR-ND	Dual High Current Buck DC-DC and Dual Linear Reg.* ***NEW!***	24-LLP	2450.00/1,000		
LP3907SQ-JXQXCT-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	24-LLP	5.43	4.44	3.99
LP3907SQ-JXQXTR-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	24-LLP	2534.00/1,000		
LP3907SQ-PXPPCT-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	24-LLP	5.07	4.08	3.72
LP3907SQ-PXPPTR-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	24-LLP	2534.00/1,000		
LP3907TL-JJ11CT-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	5.07	4.08	3.72
LP3907TL-JJ11TR-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	837.25/250		
LP3907TL-JJCPCT-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	5.07	4.08	3.72
LP3907TL-JJCPTR-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	837.25/250		
LP3907TL-JSXSCT-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	5.07	4.08	3.72
LP3907TL-JSXSTR-ND	Dual High Current Buck DC-DC/Dual Linear Regulator*	25-µSMD	837.25/250		

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3961EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3961EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1428.00/1,000		
LP3961EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3964EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator* ***NEW!***	SOT-223-5	3.06	2.50	2.25
LP3964EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator* ***NEW!***	SOT-223-5	1233.00/1,000		
LP3965EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1610.00/1,000		
LP3965ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3965ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3965ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3965ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.86	3.11	2.83
LP3965ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.86	3.11	2.83
LP3965ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.86	3.11	2.83
LP3965ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.86	3.11	2.83
LP3966ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.62	3.72	3.39
LP3966ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.62	3.72	3.39
LP3966ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.62	3.72	3.39
LP3966ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.62	3.72	3.39
LP3966ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.62	3.72	3.39
LP3981ILD-2.5CT-ND	2.5V, 300mA Ultra LDO CMOS Voltage Regulator*	6-LLP	1.18	.93	.84
LP3981ILD-2.5TR-ND	2.5V, 300mA Ultra LDO CMOS Voltage Regulator*	6-LLP	465.00/1,000		
LP3981ILD-3.3CT-ND	3.3V, 300mA Ultra LDO CMOS Voltage Regulator*	6-LLP	1.18	.93	.84
LP3981ILD-3.3TR-ND	3.3V, 300mA Ultra LDO CMOS Voltage Regulator*	6-LLP	465.00/1,000		
LP3981IMM-2.5CT-ND	2.5V, 300mA Ultra LDO CMOS Volt. Regulator*	8-MSOP	1.03	.81	.73
LP3981IMM-2.5TR-ND	2.5V, 300mA Ultra LDO CMOS Volt. Regulator*	8-MSOP	405.00/1,000		
LP3981IMM-3.0CT-ND	3V, 300mA Ultra LDO CMOS Voltage Regulator*	8-MSOP	1.03	.81	.73
LP3981IMM-3.0TR-ND	3V, 300mA Ultra LDO CMOS Voltage Regulator*	8-MSOP	405.00/1,000		
LP3981IMM-3.3CT-ND	3.3V, 300mA Ultra LDO CMOS Volt. Regulator*	8-MSOP	1.03	.81	.73
LP3981IMM-3.3TR-ND	3.3V, 300mA Ultra LDO CMOS Volt. Regulator*	8-MSOP	405.00/1,000		
LP3982ILD-ADJCT-ND	Adj., 300mA Ultra LDO Low Noise CMOS*	8-LLP	1.14	.90	.81
LP3982ILD-ADJTR-ND	Adj., 300mA Ultra LDO Low Noise CMOS*	8-LLP	450.00/1,000		
LP3982ILD-1.8CT-ND	1.8V, 300mA Ultra LDO Low Noise CMOS	8-LLP	1.14	.90	.81
LP3982ILD-1.8TR-ND	1.8V, 300mA Ultra LDO Low Noise CMOS	8-LLP	450.00/1,000		
LP3982ILD-3.3CT-ND	3.3V, 300mA Ultra LDO Low Noise CMOS*	8-LLP	1.14	.90	.81
LP3982ILD-3.3TR-ND	3.3V, 300mA Ultra LDO Low Noise CMOS*	8-LLP	450.00/1,000		
LP3982IMM-ADJ/NOPBCT-ND	Adj., 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	1.10	.87	.79
LP3982IMM-ADJ/NOPBTR-ND	Adj., 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	435.00/1,000		
LP3982IMM-1.8CT-ND	1.8V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	1.10	.87	.79
LP3982IMM-1.8TR-ND	1.8V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	435.00/1,000		
LP3982IMM-2.5CT-ND	2.5V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	1.10	.87	.79
LP3982IMM-2.5TR-ND	2.5V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	435.00/1,000		
LP3982IMM-3.0CT-ND	3V, 300mA Ultra LDO Low Noise CMOS*	8-MSOP	1.10	.87	.79
LP3982IMM-3.0TR-ND	3V, 300mA Ultra LDO Low Noise CMOS*	8-MSOP	435.00/1,000		
LP3982IMM-3.3CT-ND	3.3V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	1.10	.87	.79
LP3982IMM-3.3TR-ND	3.3V, 300mA ULDO Low Noise CMOS Regulator*	8-MSOP	435.00/1,000		
LP3983ITL-2.5CT-ND	2.5V, 5mA CMOS Voltage Regulator*	5-μSMD	1.25	.99	.90
LP3983ITL-2.5TR-ND	2.5V, 5mA CMOS Voltage Regulator*	5-μSMD	177.50/250		
LP3984IMF-1.5CT-ND	1.5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.14	.90	.81
LP3984IMF-1.5TR-ND	1.5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	450.00/1,000		
LP3984IMF-1.8CT-ND	1.8V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.14	.90	.81
LP3984IMF-1.8TR-ND	1.8V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	450.00/1,000		
LP3984IMF-2.0CT-ND	2V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.13	.83	.60
LP3984IMF-3.1CT-ND	3.1V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.14	.90	.81
LP3984IMF-3.1TR-ND	3.1V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	450.00/1,000		
LP3984ITP-2.9CT-ND	2.9V, 150mA Ultra LDO CMOS Voltage Regulator*	4-μSMD	1.22	.96	.87
LP3984ITP-2.9TR-ND	2.9V, 150mA Ultra LDO CMOS Voltage Regulator*	4-μSMD	172.00/250		
LP3985IM5-2.5CT-ND	2.5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP5951MG-2.0CT-ND	2.0V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-2.0TR-ND	2.0V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP38501TJ-ADJCT-ND	3A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	3.26	2.52	2.28
LP38501TJ-ADJTR-ND	3A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	1349.00/1,000		
LP38502TJ-ADJCT-ND	1.5A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	2.91	2.25	2.04
LP38502TJ-ADJTR-ND	1.5A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	1204.00/1,000		
LP38503TJ-ADJCT-ND	3A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	2.96	2.29	2.08
LP38503TJ-ADJTR-ND	3A FlexCap LDO Regulator* ***NEW!***	TO-263T-5	1227.00/1,000		
LP3985IM5-2.5TR-ND	2.5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-2.7CT-ND	2.7V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-2.7TR-ND	2.7V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-2.8CT-ND	2.8V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-2.8TR-ND	2.8V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-2.9CT-ND	2.9V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-2.9TR-ND	2.9V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-3.0CT-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-3.0TR-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-3.2CT-ND	3.2V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.01	.79	.69
LP3985IM5-3.2TR-ND	3.2V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	368.00/1,000		
LP3985IM5-3.3CT-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.01	.79	.69
LP3985IM5-3.3TR-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	368.00/1,000		
LP3985IM5-4.7CT-ND	4.7V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-4.7TR-ND	4.7V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985IM5-5.0CT-ND	5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.01	.79	.69
LP3985IM5-5.0TR-ND	5V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	368.00/1,000		
LP3985ITL-2.5/NOPBCT-ND	2.5V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	.95	.75	.68
LP3985ITL-2.5/NOPBTR-ND	2.5V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	134.50/250		
LP3985ITL-2.8CT-ND	2.8V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	.95	.75	.68
LP3985ITL-2.8TR-ND	2.8V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	134.50/250		
LP3985ITL-3.0CT-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator*	5-μSMD	.95	.75	.68
LP3985ITL-3.0TR-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator*	5-μSMD	134.50/250		
LP3985ITL-3.3CT-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	.95	.75	.68
LP3985ITL-3.3TR-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	134.50/250		
LP3986TL-2518CT-ND	1.8V/2.5V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	1.86	1.47	1.33
LP3986TL-2518TR-ND	1.8V/2.5V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	263.50/250		
LP3986TL-2525CT-ND	2.5V, Dual 150mA Ultra LDO CMOS Voltage Regulator	8-μSMD	1.86	1.47	1.33
LP3986TL-2525TR-ND	2.5V, Dual 150mA Ultra LDO CMOS Voltage Regulator	8-μSMD	263.50/250		
LP3986TL-2818CT-ND	1.8V/2.8V, Dual 150mA Ultra LDO CMOS Voltage Reg.*	8-μSMD	1.86	1.47	1.33
LP3986TL-2818TR-ND	1.8V/2.8V, Dual 150mA Ultra LDO CMOS Voltage Reg.*	8-μSMD	263.50/250		
LP3986TL-2828CT-ND	2.8V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	1.86	1.47	1.33
LP3986TL-2828TR-ND	2.8V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	263.50/250		
LP3986TL-285285CT-ND	2.85V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	1.86	1.47	1.33
LP3986TL-285285TR-ND	2.85V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	263.50/250		
LP3986TL-3030CT-ND	3V, Dual 150mA Ultra LDO CMOS Voltage Regulator*	8-μSMD	1.86	1.47	1.33
LP3986TL-3030TR-ND	3V, Dual 150mA Ultra LDO CMOS Voltage Regulator*	8-μSMD	263.50/250		
LP3986TL-3333CT-ND	3.3V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	1.86	1.47	1.33
LP3986TL-3333TR-ND	3.3V, Dual 150mA Ultra LDO CMOS Voltage Reg.* ***NEW!***	8-μSMD	263.50/250		
LP3987ITL-2.6CT-ND	2.6V, 150mA Ultra LDO Voltage Regulator w/ Sleep	5-μSMD	1.10	.87	.79
LP3987ITL-2.6TR-ND	2.6V, 150mA Ultra LDO Voltage Regulator w/ Sleep	5-μSMD	156.00/250		
LP3987ITL-2.8CT-ND	2.8V, 150mA Ultra LDO Voltage Regulator w/ Sleep	5-μSMD	1.10	.87	.79
LP3987ITL-2.8TR-ND	2.8V, 150mA Ultra LDO Voltage Regulator w/ Sleep	5-μSMD	156.00/250		
LP3987ITL-2.85CT-ND	2.85V, 150mA Ultra LDO Voltage Reg. w/ Sleep* ***NEW!***	5-μSMD	1.10	.87	.79
LP3987ITL-2.85TR-ND	2.85V, 150mA Ultra LDO Voltage Reg. w/ Sleep* ***NEW!***	5-μSMD	156.00/250		
LP3987ITL-3.0CT-ND	3V, 150mA Ultra LDO Voltage Reg. w/ Sleep* ***NEW!***	5-μSMD	1.10	.87	.79
LP3987ITL-3.0TR-ND	3V, 150mA Ultra LDO Voltage Reg. w/ Sleep* ***NEW!***	5-μSMD	156.00/250		
LP3988IMF-2.5CT-ND	2.5V, 150mA Ultra LDO CMOS Volt. Regulator	SOT-23-5	1.03	.81	.73
LP3988IMF-2.5TR-ND	2.5V, 150mA Ultra LDO CMOS Volt. Regulator	SOT-23-5	405.00/1,000		
LP3988IMF-3.0CT-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.03	.81	.73
LP3988IMF-3.0TR-ND	3V, 150mA Ultra LDO CMOS Voltage Regulator	SOT-23-5	405.00/1,000		
LP3988IMF-3.3CT-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.03	.81	.73
LP3988IMF-3.3TR-ND	3.3V, 150mA Ultra LDO CMOS Voltage Regulator*	SOT-23-5	405.00/1,000		
LP3988ITL-1.85CT-ND	1.85V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	1.10	.87	.79
LP3988ITL-1.85TR-ND	1.85V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	156.00/250		
LP3988ITL-2.85CT-ND	2.85V, 150mA Ultra LDO CMOS Voltage Regulator	5-μSMD	1.14	.90	.81
LP3990MF-1.2CT-ND	1.2V, 150mA Linear Volt. Regulator*	SOT-23-5	1.10	.87	.79
LP3990MF-1.2TR-ND	1.2V, 150mA Linear Volt. Regulator*	SOT-23-5	435.00/1,000		
LP3990MF-1.8CT-ND	1.8V, 150mA Linear Volt. Regulator*	SOT-23-5	1.10	.87	.79
LP3990MF-1.8TR-ND	1.8V, 150mA Linear Volt. Regulator*	SOT-23-5	435.00/1,000		
LP3990MF-2.5CT-ND	2.5V, 150mA Linear Volt. Regulator*	SOT-23-5	1.10	.87	.79
LP3990MF-2.5TR-ND	2.5V, 150mA Linear Volt. Regulator*	SOT-23-5	435.00/1,000		
LP3990MF-2.8CT-ND	2.8V, 150mA Linear Volt. Regulator*	SOT-23-5	1.10	.87	.79
LP3990MF-2.8TR-ND	2.8V, 150mA Linear Volt. Regulator*	SOT-23-5	435.00/1,000		
LP3990MF-3.3CT-ND	3.3V, 150mA Linear Volt. Regulator*	SOT-23-5	1.10	.87	.79
LP3990MF-3.3TR-ND	3.3V, 150mA Linear Volt. Regulator*	SOT-23-5	435.00/1,000		
LP3990SD-1.2CT-ND	1.2V, 150mA Linear Volt. Regulator*	6-LLP	1.14	.90	.81
LP3990SD-1.2TR-ND	1.2V, 150mA Linear Volt. Regulator*	6-LLP	450.00/1,000		
LP3990SD-1.5CT-ND	1.5V, 150mA Linear Volt. Regulator	6-LLP	1.14	.90	.81
LP3990SD-1.5TR-ND	1.5V, 150mA Linear Volt. Regulator	6-LLP	450.00/1,000		
LP3990SD-1.8CT-ND	1.8V, 150mA Linear Volt. Regulator	6-LLP	1.14	.90	.81
LP3990SD-1.8TR-ND	1.8V, 150mA Linear Volt. Regulator	6-LLP	450.00/1,000		
LP3990TL-0.8CT-ND	0.8V, 150mA Linear Volt. Regulator	4-μSMD	1.18	.93	.84
LP3990TL-1.2CT-ND	1.2V, 150mA Linear Volt. Regulator	4-μSMD	1.10	.87	.79
LP3990TL-1.2TR-ND	1.2V, 150mA Linear Volt. Regulator	4-μSMD	156.00/250		
LP3990TL-1.35CT-ND	1.35V, 150mA Linear Volt. Regulator	4-μSMD	1.18	.93	.84
LP3990TL-1.5CT-ND	1.5V, 150mA Linear Volt. Regulator	4-μSMD	1.10	.87	.79
LP3990TL-1.5TR-ND	1.5V, 150mA Linear Volt. Regulator	4-μSMD	156.00/250		
LP3990TL-1.8CT-ND	1.8V, 150mA Linear Volt. Regulator*	4-μSMD	1.10	.87	.79
LP3990TL-1.8TR-ND	1.8V, 150mA Linear Volt. Regulator*	4-μSMD	156.00/250		
LP3990TL-2.5CT-ND	2.5V, 150mA Linear Volt. Regulator*	4-μSMD	1.10	.87	.79
LP3990TL-2.5TR-ND	2.5V, 150mA Linear Volt. Regulator*	4-μSMD	156.00/250		
LP3990TL-2.8CT-ND	2.8V, 150mA Linear Volt. Regulator	4-μSMD	1.10	.87	.79
LP3990TL-2.8TR-ND	2.8V, 150mA Linear Volt. Regulator	4-μSMD	156.00/250		
LP3991TL-1.2CT-ND	1.2V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	1.60	1.26	1.14
LP3991TL-1.2TR-ND	1.2V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	225.75/250		
LP3991TL-1.5CT-ND	1.5V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	1.60	1.26	1.14
LP3991TL-1.5TR-ND	1.5V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	225.75/250		
LP3991TL-1.8CT-ND	1.8V, 300mA Linear Volt. Regulator*	4-μSMD	1.60	1.26	1.14
LP3991TL-1.8TR-ND	1.8V, 300mA Linear Volt. Regulator*	4-μSMD	225.75/250		
LP3991TL-2.8CT-ND	2.8V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	1.60	1.26	1.14
LP3991TL-2.8TR-ND	2.8V, 300mA Linear Volt. Regulator* ***NEW!***	4-μSMD	225.75/250		
LP3991TL-3.0CT-ND	3.0V, 300mA Linear Volt. Regulator*	4-μSMD	1.60	1.26	1.14
LP3991TL-3.0TR-ND	3.0V, 300mA Linear Volt. Regulator*	4-μSMD	225.75/250		
LP3995ILD-1.8CT-ND	1.8V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	1.29	1.02	.92
LP3995ILD-1.8TR-ND	1.8V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	510.00/1,000		
LP3995ILD-2.8CT-ND	2.8V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	1.29	1.02	.92
LP3995ILD-2.8TR-ND	2.8V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	510.00/1,000		
LP3995ILD-3.0CT-ND	3V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	1.29	1.02	.92
LP3995ILD-3.0TR-ND	3V, 150mA CMOS Volt. Regulator with Shutdown	6-LLP	510.00/1,000		
LP3995ITL-1.5CT-ND	1.5V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	1.14	.90	.81
LP3995ITL-1.5TR-ND	1.5V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	161.25/250		
LP3995ITL-1.8CT-ND	1.8V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	1.14	.90	.81
LP3995ITL-1.8TR-ND	1.8V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	161.25/250		
LP3995ITL-1.9CT-ND	1.9V, 150mA CMOS Volt. Reg. with Shutdown* ***NEW!***	5-μSMD	1.14	.90	.81
LP3995ITL-1.9TR-ND	1.9V, 150mA CMOS Volt. Reg. with Shutdown* ***NEW!***	5-μSMD	161.25/250		
LP3995ITL-2.5CT-ND	2.5V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	1.14	.90	.81
LP3995ITL-2.5TR-ND	2.5V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	161.25/250		
LP3995ITL-2.8CT-ND	2.8V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	1.14	.90	.81
LP3995ITL-2.8TR-ND	2.8V, 150mA CMOS Volt. Regulator with Shutdown	microSMD	161.25/250		
LP3995ITL-2.85CT-ND	2.85V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	1.14	.90	.81
LP3995ITL-2.85TR-ND	2.85V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	161.25/250		
LP3995ITL-3.0CT-ND	3V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	1.14	.90	.81
LP3995ITL-3.0TR-ND	3V, 150mA CMOS Volt. Regulator with Shutdown	5-μSMD	161.25/250		
LP3996SD-1833CT-ND	1.8V/3.3V 300mA/150mA Dual LDO Regulator* ***NEW!***	10-LLP	1.80	1.39	1.26
LP3996SD-1833TR-ND	1.8V/3.3V 300mA/150mA Dual LDO Regulator* ***NEW!***	10-LLP	744.00/1,000		
LP3996SD-3333CT-ND	3.3V/3.3V, 300mA/150mA Dual LDO Regulator* ***NEW!***	10-LLP	1.80	1.39	1.26
LP3996SD-3333TR-ND	3.3V/3.3V, 300mA/150mA Dual LDO Regulator* ***NEW!***	10-LLP	744.00/1,000		
LP3997MM-3.3CT-ND	3.3V, 250mA CMOS LDO Regulator*	8-MSOP	1.48	1.17	1.06
LP3997MM-3.3TR-ND	3.3V, 250mA CMOS LDO Regulator*	8-MSOP	585.00/1,000		
LP3999ITL-1.8CT-ND	1.8V, 150mA Volt. Regulator with Shutdown	5-μSMD	1.06	.84	.76
LP3999ITL-1.8TR-ND	1.8V, 150mA Volt. Regulator with Shutdown	5-μSMD	150.50/250		
LP3999ITL-1875CT-ND	1.875V, 150mA Volt. Regulator with Shutdown	5-μSMD	1.06	.84	.76
LP3999ITL-1875TR-ND	1.875V, 150mA Volt. Regulator with Shutdown	5-μSMD	150.50/250		
LP3961EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3961EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1428.00/1,000		
LP3961EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3961EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1428.00/1,000		
LP3961ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	2.91	2.34	2.14
LP3961ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	3.22	2.40	1.77
LP3961ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	2.91	2.34	2.14
LP3962EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.09	2.53	2.27
LP3962EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1442.00/1,000		
LP3962EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.09	2.53	2.27
LP3962EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1442.00/1,000		
LP3962EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.09	2.53	2.27
LP3962EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1442.00/1,000		
LP3962ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.47	2.79	2.55
LP3962ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.47	2.79	2.55
LP3962ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38

*** RoHS Compliant**

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3962ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.61	2.38
LP3963ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.14	3.33	3.04
LP3963ES-3.3/NOPB-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.14	3.33	3.04
LP3964EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	3.06	2.50	2.25
LP3964EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1428.00/1,000		
LP3964EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3964EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1428.00/1,000		
LP3964EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3964EMP-ADJCT-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	3.06	2.50	2.25
LP3964EMP-ADJTR-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1428.00/1,000		
LP3964ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3964ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3964ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3964ES-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.61	2.38
LP3964ET-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.61	2.38
LP3965EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.45	2.82	2.53
LP3965EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1610.00/1,000		
LP3965EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.45	2.82	2.53
LP3965EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1610.00/1,000		
LP3965EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.45	2.82	2.53
LP3965EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1610.00/1,000		
LP3965EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	3.45	2.82	2.53
LP3999ITL-2.4CT-ND	2.4V, 150mA Volt. Regulator with Shutdown	5-µSMD	1.06	.84	.76
LP3999ITL-2.4TR-ND	2.4V, 150mA Volt. Regulator with Shutdown	5-µSMD	150.50/250		
LP3999ITL-2.5CT-ND	2.5V, 150mA Volt. Regulator with Shutdown	5-µSMD	1.06	.84	.76
LP3999ITL-2.5TR-ND	2.5V, 150mA Volt. Regulator with Shutdown	5-µSMD	150.50/250		
LP3999ITL-2.8CT-ND	2.8V, 150mA Volt. Regulator with Shutdown	5-µSMD	1.06	.84	.76
LP3999ITL-2.8TR-ND	2.8V, 150mA Volt. Regulator with Shutdown	5-µSMD	150.50/250		
LP3999ITL-3.3CT-ND	3.3V, 150mA Volt. Regulator with Shutdown	5-µSMD	1.06	.84	.76
LP3999ITL-3.3TR-ND	3.3V, 150mA Volt. Regulator with Shutdown	5-µSMD	150.50/250		
LP5900SD-1.8CT-ND	1.8V,150mA Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-1.8TR-ND	1.8V,150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900SD-2.0CT-ND	2V,150mA LDO Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-2.0TR-ND	2V,150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900SD-2.5CT-ND	2.5V,150mA LDO Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-2.5TR-ND	2.5V,150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900SD-2.8CT-ND	2.8V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-2.8TR-ND	2.8V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900SD-3.0CT-ND	3V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-3.0TR-ND	3V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900SD-3.3CT-ND	3.3V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	1.37	1.08	.98
LP5900SD-3.3TR-ND	3.3V, 150mA LDO Linear Regulator* ***NEW!***	6-LLP	540.00/1,000		
LP5900TL-1.5CT-ND	1.5V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-1.5TR-ND	1.5V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-1.8CT-ND	1.8V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-1.8TR-ND	1.8V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-1.9CT-ND	1.9V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-1.9TR-ND	1.9V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-2.0CT-ND	2.0V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-2.0TR-ND	2.0V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-2.2CT-ND	2.2V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-2.2TR-ND	2.2V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-2.3CT-ND	2.3V, 150mA LDO Linear Regulator* ***NEW!***	4-µSMD	1.60	1.26	1.14
LP5900TL-2.3TR-ND	2.3V, 150mA LDO Linear Regulator* ***NEW!***	4-µSMD	225.75/250		
LP5900TL-2.5CT-ND	2.5V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-2.5TR-ND	2.5V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-2.7CT-ND	2.7V, 150mA LDO Linear Regulator* ***NEW!***	4-µSMD	1.60	1.26	1.14
LP5900TL-2.7TR-ND	2.7V, 150mA LDO Linear Regulator* ***NEW!***	4-µSMD	225.75/250		
LP5900TL-2.75CT-ND	2.75V, 150mA LDO Linear Regulator*	4-µSMD	1.30	1.05	.95
LP5900TL-2.75TR-ND	2.75V, 150mA LDO Linear Regulator*	4-µSMD	522.75/750		
LP5900TL-2.8CT-ND	2.8V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-2.8TR-ND	2.8V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-3.0CT-ND	3V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-3.0TR-ND	3V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5900TL-3.3CT-ND	3.3V, 150mA LDO Linear Regulator*	4-µSMD	1.60	1.26	1.14
LP5900TL-3.3TR-ND	3.3V, 150mA LDO Linear Regulator*	4-µSMD	225.75/250		
LP5951MF-1.3CT-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SOT-23-5	.97	.75	.66
LP5951MF-1.3TR-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SOT-23-5	352.00/1,000		
LP5951MF-1.5CT-ND	1.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-1.5TR-ND	1.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-1.8CT-ND	1.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-1.8TR-ND	1.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-2.0CT-ND	2V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-2.0TR-ND	2V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-2.5CT-ND	2.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-2.5TR-ND	2.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-2.8CT-ND	2.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-2.8TR-ND	2.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-3.0CT-ND	3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-3.0TR-ND	3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MF-3.3CT-ND	3.3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	.97	.75	.66
LP5951MF-3.3TR-ND	3.3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SOT-23-5	352.00/1,000		
LP5951MG-1.3CT-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SC70-5	.92	.72	.63
LP5951MG-1.5CT-ND	1.5V, 150mA LDO CMOS Voltage Regulator*	SC70-5	.92	.72	.63
LP5951MG-1.5TR-ND	1.5V, 150mA LDO CMOS Voltage Regulator*	SC70-5	336.00/1,000		
LP5951MG-1.8CT-ND	1.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-1.8TR-ND	1.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP5951MG-2.5CT-ND	2.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-2.5TR-ND	2.5V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP5951MG-2.8CT-ND	2.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-2.8TR-ND	2.8V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP5951MG-3.0CT-ND	3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-3.0TR-ND	3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP5951MG-3.3CT-ND	3.3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	.92	.72	.63
LP5951MG-3.3TR-ND	3.3V, 150mA LDO CMOS Voltage Regulator* ***NEW!***	SC70-5	336.00/1,000		
LP5952LC-1.2CT-ND	1.2V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	1.52	1.20	1.08
LP5952LC-1.2TR-ND	1.2V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	600.00/1000		
LP5952LC-1.3CT-ND	1.3V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	1.52	1.20	1.08
LP5952LC-1.3TR-ND	1.3V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	600.00/1000		
LP5952LC-1.5CT-ND	1.5V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	1.52	1.20	1.08
LP5952LC-1.5TR-ND	1.5V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	600.00/1000		
LP5952LC-1.8CT-ND	1.8V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	1.52	1.20	1.08
LP5952LC-1.8TR-ND	1.8V, 350mA Dual Linear Regulator* ***NEW!***	6-LLP	600.00/1000		
LP5952TL-1.2CT-ND	1.2V, 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	1.52	1.20	1.08
LP5952TL-1.2TR-ND	1.2V, 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	600.00/1,000		
LP5952TL-1.3CT-ND	1.3V 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	1.52	1.20	1.08
LP5952TL-1.3TR-ND	1.3V 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	215.00/250		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP5952TL-1.8CT-ND	1.8V, 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	1.52	1.20	1.08
LP5952TL-1.8TR-ND	1.8V, 350mA Dual Linear Regulator* ***NEW!***	5-µSMD	215.00/250		
LP5996SD-1018CT-ND	1V/1.8V, Dual Linear Regulator*	10-LLP	1.72	1.38	1.21
LP5996SD-1018TR-ND	1V/1.8V, Dual Linear Regulator*	10-LLP	735.00/1,000		
LP5996SD-1833CT-ND	1.8V/3.3V, Dual Linear Regulator*	10-LLP	1.72	1.38	1.21
LP5996SD-1833TR-ND	1.8V/3.3V, Dual Linear Regulator*	10-LLP	735.00/1,000		
LP5996SD-2533CT-ND	2.5V/3.3V, Dual Linear Regulator*	10-LLP	1.72	1.38	1.21
LP5996SD-2533TR-ND	2.5V/3.3V, Dual Linear Regulator*	10-LLP	735.00/1,000		
LP5996SD-3333CT-ND	3.3V, Dual Linear Regulator* ***NEW!***	10-LLP	1.86	1.47	1.33
LP5996SD-3333TR-ND	3.3V, Dual Linear Regulator* ***NEW!***	10-LLP	735.00/1,000		
LP8345CDTX-2.5CT-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Reg.* ***NEW!***	3-DPAK	1.75	1.35	1.23
LP38500ASD-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	2.63	2.03	1.84
LP38500ASD-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	1088.00/1,000		
LP38500ATJ-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	2.63	2.03	1.84
LP38500ATJ-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	1088.00/1,000		
LP38500SD-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	2.63	2.03	1.84
LP38500SD-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	1088.00/1,000		
LP38500TJ-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	2.63	2.03	1.84
LP38500TJ-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	1088.00/1,000		
LP38500TS-ADJ-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	2.33	1.88	1.69
LP38501ATJ-ADJCT-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	3.26	2.52	2.28
LP38501ATJ-ADJTR-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	1349.00/1,000		
LP38501TS-ADJ-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	2.88	2.33	2.10
LP38502ASD-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	2.91	2.25	2.04
LP38502ASD-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	1204.00/1,000		
LP38502ATJ-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	2.91	2.25	2.04
LP38502ATJ-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	1204.00/1,000		
LP38502SD-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	2.91	2.25	2.04
LP38502SD-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	8-LLP	1204.00/1,000		
LP38502TSX-ADJCT-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	2.91	2.25	2.04
LP38502TSX-ADJTR-ND	Adjustable, 1.5A FlexCap LDO Linear Regulator*	TO-263-5	726.50/500		
LP38503ATJ-ADJCT-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	2.96	2.29	2.08
LP38503ATJ-ADJTR-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	1227.00/1,000		
LP38503TS-ADJ-ND	Adjustable, 3A FlexCap LDO Linear Regulator*	TO-263-5	2.62	2.12	1.91
LP38511MR-ADJ-ND	Adjustable, 800mA LDO Linear Regulator* ***NEW!***	8-PSOP	2.86	2.31	2.08
LP38511TJ-ADJCT-ND	Adjustable, 800mA LDO Linear Regulator* ***NEW!***	TO-263-5	3.23	2.49	2.26
LP38511TJ-ADJTR-ND	Adjustable, 800mA LDO Linear Regulator* ***NEW!***	TO-263-5	1337.00/1,000		
LP38511TJ-1.8CT-ND	1.8V, 800mA LDO Linear Reg. with Error Flag* ***NEW!***	TO-263-5	3.23	2.49	2.26
LP38511TJ-1.8TR-ND	1.8V, 800mA LDO Linear Reg. with Error Flag* ***NEW!***	TO-263-5	1337.00/1,000		
LP38511TS-1.8-ND	1.8V, 800mA LDO Linear Reg. with Error Flag*	TO-263-5	2.86	2.31	2.08
LP38512MR-ADJ-ND	Adj., 1.5A LDO Linear Reg. with Error Flag* ***NEW!***	8-PSOP	3.78	3.04	2.77
LP38512TJ-1.8CT-ND	1.8V, 1.5A LDO Linear Reg. with Error Flag* ***NEW!***	TO-263-5	4.05	3.31	2.97
LP38512TJ-1.8TR-ND	1.8V, 1.5A LDO Linear Reg. with Error Flag* ***NEW!***	TO-263-5	1890.00/1,000		
LP38512TJ-ADJCT-ND	Adj., 1.5A LDO Linear Regulator with Error Flag* ***NEW!***	TO-263-5	4.05	3.31	2.97
LP38512TJ-ADJTR-ND	Adj., 1.5A LDO Linear Regulator with Error Flag* ***NEW!***	TO-263-5	1890.00/1,000		
LP38512TS-1.8-ND	1.8V, 3A LDO Linear Regulator with Error Flag* ***NEW!***	TO-263-5	3.78	3.04	2.77
LP38513S-1.8-ND	1.8V, 3A LDO Linear Regulator with Error Flag*	TO-263-5	5.60	4.50	4.10
LP38513T-1.8-ND	1.8V, 3A LDO Linear Regulator with Error Flag*	TO-220-5	5.60	4.50	4.10
LP38513TJ-ADJCT-ND	Adj., 3A LDO Linear Regulator with Error Flag* ***NEW!***	TO-263-5	6.00	4.90	4.40
LP38513TJ-ADJTR-ND	Adj., 3A LDO Linear Regulator with Error Flag* ***NEW!***	TO-263-5	2800.00/1,000		
LP38690DT-1.8-ND	1.8V, 1A LDO CMOS Linear Regulator*	TO-252	1.64	1.33	1.20
LP38690DT-2.5-ND	2.5V, 1A LDO CMOS Linear Regulator*	TO-252	1.64	1.33	1.20
LP38690DT-3.3-ND	3.3V, 1A LDO CMOS Linear Regulator*	TO-252	1.64	1.33	1.20
LP38690DT-5.0-ND	5V, 1A LDO CMOS Linear Regulator*	TO-252	1.64	1.33	1.20
LP38690SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	1.86	1.44	1.30
LP38690SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	769.00/1,000		
LP38690SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	1.86	1.44	1.30
LP38690SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	769.00/1,000		
LP38690SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	1.86	1.44	1.30
LP38690SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	769.00/1,000		
LP38690SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	1.86	1.44	1.30
LP38690SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	769.00/1,000		
LP38690SD-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	1.83	1.41	1.28
LP38690SD-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	757.00/1,000		
LP38691DT-1.8-ND	1.8V, 500mA LDO CMOS Linear Regulator*	TO-252	1.58	1.28	1.15
LP38691DT-2.5-ND	2.5V, 500mA LDO CMOS Linear Regulator	TO-252	1.58	1.28	1.15
LP38691DT-3.3-ND	3.3V, 500mA LDO CMOS Linear Regulator*	TO-252	1.58	1.28	1.15
LP38691DT-5.0-ND	5.0V, 500mA LDO CMOS Linear Regulator*	TO-252	1.58	1.28	1.15
LP38691SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	1.79	1.38	1.25
LP38691SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	740.00/1,000		
LP38691SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.79	1.38	1.25
LP38691SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator*	6-LLP	740.00/1,000		
LP38691SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.79	1.38	1.25
LP38691SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	740.00/1,000		
LP38691SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.79	1.38	1.25
LP38691SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator*	6-LLP	740.00/1,000		
LP38691SD-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	1.79	1.38	1.25
LP38691SD-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	740.00/1,000		
LP38692MP-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.86	1.44	1.30
LP38692MP-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5	769.00/1,000		
LP38692MP-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.86	1.44	1.30
LP38692MP-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5	769.00/1,000		
LP38692MP-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.86	1.44	1.30
LP38692MP-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator*	SOT-223-5	769.00/1,000		
LP38692MP-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.71	1.35	1.22
LP38692MP-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	SOT-223-5	769.00/1,000		
LP38692MP-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.86	1.44	1.30
LP38692MP-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	SOT-223-5	769.00/1,000		
LP38692SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator* ***NEW!***	6-LLP	1.86	1.44	1.30
LP38692SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator* ***NEW!***	6-LLP	769.00/1,000		
LP38692SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator* ***NEW!***	6-LLP	1.86	1.44	1.30
LP38692SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator* ***NEW!***	6-LLP	769.00/1,000		
LP38692SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator*	6-LLP	1.86	1.44	1.30
LP38692SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator*	6-LLP	769.00/1,000		
LP38692SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	1.86	1.44	1.30
LP38692SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	769.00/1,000		
LP38692SD-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	1.86	1.44	1.30
LP38692SD-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	769.00/1,000		
LP38693MP-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator*	SOT-223-4	1.79	1.38	1.25
LP38693MP-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator*	SOT-223-4	740.00/1,000		
LP38693MP-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223-4	1.79	1.38	1.25
LP38693MP-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223-4	740.00/1,000		
LP38693MP-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	SOT-223-4	1.79	1.38	1.25
LP38693MP-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	SOT-223-4	740.00/1,000		
LP38693MP-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223-4	1.79	1.38	1.25
LP38693MP-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223-4	740.00/1,000		
LP38693MP-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator*	SOT-223-4	1.79	1.38	1.25

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

POWER MANAGEMENT LINEAR / LDO

National Semiconductor Digi-Reel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP38693MP-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator*	SOT-223-4	740.00/1,000		
LP38693SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator* ***NEW!***	6-LLP	1.79	1.38	1.25
LP38693SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator* ***NEW!***	6-LLP	740.00/1,000		
LP38693SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	1.79	1.38	1.25
LP38693SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	740.00/1,000		
LP38693SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.79	1.38	1.25
LP38693SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	740.00/1,000		
LP38693SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	1.79	1.38	1.25
LP38693SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	740.00/1,000		
LP38693SD-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	1.79	1.38	1.25
LP38693SD-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	740.00/1,000		
LP38841MR-ADJ-ND	Adjustable, 0.8A, LDO Linear Regulator*	8-PSOP	4.76	3.83	3.49
LP38841S-1.2-ND	1.2V, 0.8A, LDO Linear Regulator*	TO-263-5	4.76	3.83	3.49
LP38841T-1.2-ND	1.2V, 0.8A, LDO Linear Regulator	TO-220-5	4.76	3.83	3.49
LP38842MR-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	8-PSOP	5.04	4.05	3.69
LP38842S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator*	TO-263-5	5.04	4.05	3.69
LP38842S-1.5-ND	1.5V, 1.5A, LDO Linear Regulator*	TO-263-5	5.04	4.05	3.69
LP38842T-0.8-ND	0.8V, 1.5A, LDO Linear Regulator	TO-220-5	5.04	4.05	3.69
LP38842T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator	TO-220-5	5.04	4.05	3.69
LP38842T-1.5-ND	1.5V, 1.5A, LDO Linear Regulator	TO-220-5	5.04	4.05	3.69
LP38843S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	5.46	4.39	4.00
LP38843S-1.5-ND	1.5V, 3A, LDO Linear Regulator*	TO-263-5	5.46	4.39	4.00
LP38843T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	5.46	4.39	4.00
LP38843T-1.5-ND	1.5V, 3A, LDO Linear Regulator	TO-220-5	5.46	4.39	4.00
LP38851MR-ADJ-ND	Adjustable, 800mA, LDO Linear Regulator*	8-PSOP	3.05	2.46	2.24
LP38851S-ADJ-ND	Adjustable, 800mA, LDO Linear Regulator*	TO-263-7	3.05	2.46	2.24
LP38851T-ADJ-ND	Adjustable, 800mA, LDO Linear Regulator*	TO-220-7	3.05	2.46	2.24
LP38852MR-ADJ-ND	Adustable, 1.5A, LDO Linear Regulator* ***NEW!***	8-PSOP	3.44	2.77	2.53
LP38852S-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	TO-263-7	3.44	2.77	2.53
LP38852T-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	TO-220-7	3.44	2.77	2.53
LP38853MR-ADJ-ND	Adjustable, 3A, LDO Linear Regulator* ***NEW!***	8-PSOP	4.65	3.74	3.41
LP38853S-ADJ-ND	Adjustable, 3A, LDO Linear Regulator*	TO-263-7	4.65	3.74	3.41
LP38853T-ADJ-ND	Adjustable, 3A, LDO Linear Regulator*	TO-220-7	4.65	3.74	3.41
LP38855S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator* ***NEW!***	TO-263-5	3.47	2.79	2.55
LP38855T-0.8-ND	0.8V,1.5A, LDO Linear Regulator*	TO-220-5	3.47	2.79	2.55
LP38855T-1.2-ND	1.2V,1.5A, LDO Linear Regulator*	TO-220-5	3.47	2.79	2.55
LP38856S-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-263-5	4.65	3.74	3.41
LP38856S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	4.65	3.74	3.41
LP38856T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	4.65	3.74	3.41
LP38858S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator* ***NEW!***	TO-263-5	3.47	2.79	2.55
LP38858T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator*	TO-220-5	3.47	2.79	2.55
LP38859S-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-263-5	4.65	3.74	3.41
LP38859S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	4.65	3.74	3.41
LP38859T-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-220-5	4.65	3.74	3.41
LP38859T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	4.65	3.74	3.41
LP5990TM-1.2CT-ND	1.2V, 200mA CMOS LDO Voltage Regulator* ***NEW!***	4-µSMD	1.27	1.00	.90
LP5990TM-1.2TR-ND	1.2V, 200mA CMOS LDO Voltage Regulator* ***NEW!***	4-µSMD	179.00/250		
LP5990TM-1.8CT-ND	1.8V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	1.27	1.00	.90
LP5990TM-1.8TR-ND	1.8V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	179.00/250		
LP5990TM-2.8CT-ND	2.8V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	1.27	1.00	.90
LP5990TM-2.8TR-ND	2.8V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	179.00/250		
LP5990TM-3.0CT-ND	3V, 200mA CMOS LDO Voltage Regulator* ***NEW!***	4-µSMD	1.27	1.00	.90
LP5990TM-3.0TR-ND	3V, 200mA CMOS LDO Voltage Regulator* ***NEW!***	4-µSMD	179.00/250		
LP5990TM-3.3CT-ND	3.3V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	1.27	1.00	.90
LP5990TM-3.3TR-ND	3.3V, 200mA CMOS LDO Voltage Regulator*	4-µSMD	179.00/250		

POWER MANAGEMENT PWM

National Semiconductor Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2524DN-ND	Regulator Pulse Width Module*	16-Dip	2.05	1.65	1.49
LM5021MM-1CT-ND	AC/DC Current Mode PWM Controller*	8-MSOP	2.19	1.70	1.54
LM5021MM-1TR-ND	AC/DC Current Mode PWM Controller*	8-MSOP	909.00/1,000		
LM5021MM-2CT-ND	AC/DC Current Mode PWM Controller*	8-MSOP	2.03	1.57	1.43
LM5021MM-2TR-ND	AC/DC Current Mode PWM Controller*	8-MSOP	841.00/1,000		
LM5021NA-1-ND	AC/DC Current Mode PWM Controller* ***NEW!***	8-MDIP	1.68	1.36	1.22
LM5025AMTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.05	2.46	2.24
LM5025BMTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.05	2.46	2.24
LM5025BSDCT-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	3.27	2.68	2.40
LM5025BSDTR-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	1526.00/1,000		
LM5025EVAL-ND	Evaluation Board for LM5025	—	165.30	—	—
LM5025MTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.05	2.46	2.24
LM5025SDCT-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	3.27	2.68	2.40
LM5025SDTR-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	1526.00/1,000		
LM5026MT-ND	Active Clamp Current Mode PWM Controller*	16-TSSOP	3.33	2.68	2.44
LM5026SDCT-ND	Active Clamp Current Mode PWM Controller*	16-LLP	3.57	2.92	2.62
LM5026SDTR-ND	Active Clamp Current Mode PWM Controller*	16-LLP	1666.00/1,000		
LM5030EVAL-ND	Evaluation Board for LM5030	—	118.77	—	—
LM5030MMCT-ND	100V Push-Pull PWM Controller*	10-MSOP	3.49	2.70	2.45
LM5030MMTR-ND	100V Push-Pull PWM Controller*	10-MSOP	1447.00/1,000		
LM5030SDCT-ND	100V Push-Pull PWM Controller	10-LLP	3.49	2.70	2.45
LM5030SDTR-ND	100V Push-Pull PWM Controller	10-LLP	1447.00/1,000		
LM5032MTC-ND	High Voltage Dual Interleaved Current Mode Controller	16-TSSOP	3.95	3.18	2.90
LM5033MMCT-ND	100V Push-Pull Voltage Mode PWM Controller*	10-MSOP	2.99	2.31	2.10
LM5033MMTR-ND	100V Push-Pull Voltage Mode PWM Controller*	10-MSOP	1240.00/1,000		
LM5033SDCT-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP	2.99	2.31	2.10
LM5033SDTR-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP	1240.00/1,000		
LM5034MTC-ND	High Volt. Dual Interleaved Current Mode Controller*	20-TSSOP	4.79	3.85	3.51
LM5035ASQCT-ND	PWM Ctrlr. w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	5.43	4.44	3.99
LM5035ASQTR-ND	PWM Ctrlr. w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	2534.00/1,000		
LM5035MH-ND	PWM Ctrlr. w/Integrated Half-Bridge/SyncFET Driver*	20-TSSOP	5.07	4.08	3.72
LM5035BMH-ND	PWM Ctrlr. w/Integrated Half-Bridge/SyncFET Drvr.* ***NEW!***	20-TSSOP	5.04	4.05	3.69
LM5035SQCT-ND	PWM Controller w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	5.43	4.44	3.99
LM5035SQTR-ND	PWM Controller w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	2534.00/1,000		
LM5041AMTC-ND	Cascaded PWM Controller*	16-TSSOP	5.71	4.59	4.19
LM5041MTC-ND	Cascaded PWM Controller	16-TSSOP	5.71	4.59	4.19
LM5041SDCT-ND	Cascaded PWM Controller*	16-LLP	6.12	5.00	4.49
LM5041SDTR-ND	Cascaded PWM Controller*	16-LLP	2856.00/1,000		
PowerWise®					
LM5020EVAL-ND	Evaluation Board for LM5020	—	67.83	—	—
LM5020MM-1CT-ND	100V Current Mode PWM Controller*	10-MSOP	3.29	2.54	2.31
LM5020MM-1TR-ND	100V Current Mode PWM Controller*	10-MSOP	1363.00/1,000		
LM5020MM-2CT-ND	100V Current Mode PWM Controller*	10-MSOP	3.29	2.54	2.31
LM5020MM-2TR-ND	100V Current Mode PWM Controller*	10-MSOP	1363.00/1,000		
LM5020SD-1CT-ND	100V Current Mode PWM Controller	10-LLP	3.29	2.54	2.31

POWER MANAGEMENT PWM

National Semiconductor Digi-Reel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM5020SD-1TR-ND	100V Current Mode PWM Controller	10-LLP	1363.00/1,000		
LM5025ASDCT-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	3.05	2.46	2.24
LM5025ASDTR-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	1526.00/1,000		
LM5025CMTCECT-ND	Active Clamp Voltage Mode PWM Controller* ***NEW!***	16-TSSOP	3.27	2.68	2.40
LM5025CMTCETR-ND	Active Clamp Voltage Mode PWM Controller* ***NEW!***	16-TSSOP	504.25/250		
LM5027MH-ND	Active Clamp Voltage Mode PWM Controller* ***NEW!***	20-TSSOP	4.56	3.67	3.35
LM5035AMH-ND	PWM Cont. w/ Integ. Half-Bridge/SyncFET Driver*	20-TSSOP	5.07	4.08	3.72
LM5035CMH-ND	PWM Cont. w/ Integ. Half-Bridge/SyncFET Driver* ***NEW!***	24-LLP	5.04	4.05	3.69
LM5035CSQCT-ND	PWM Cont. w/ Integ. Half-Bridge/SyncFET Driver* ***NEW!***	24-LLP	5.40	4.41	3.96
LM5035CSQTR-ND	PWM Cont. w/ Integ. Half-Bridge/SyncFET Driver* ***NEW!***	24-LLP	2520.00/1,000		
LM5037MT-ND	Dual-Mode PWM Controller, Alternating Outputs* ***NEW!***	16-TSSOP	3.98	3.20	2.92
LM5041BMTC-ND	Cascaded PWM Controller* ***NEW!***	16-TSSOP	5.71	4.59	4.19
LM25037MT-ND	Dual-Mode PWM Controller, Alternating Outputs*	16-TSSOP	3.47	2.79	2.55
LM25037QMT-ND	Dual-Mode PWM Controller, Alternating Outputs* ***NEW!***	16-TSSOP	4.14	3.33	3.04

POWER MANAGEMENT SEQUENCERS — *RoHS Compliant*

National Semiconductor Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3880MF-1AACT-ND	2.7V to 5.5V, 10ms Power Sequencer	SOT-23-6	1.81	1.43	1.29
LM3880MF-1AATR-ND	2.7V to 5.5V, 10ms Power Sequencer	SOT-23-6	713.00/1,000		
LM3880MF-1ABCT-ND	2.7V to 5.5V, 30ms Power Sequencer	SOT-23-6	1.81	1.43	1.29
LM3880MF-1ABTR-ND	2.7V to 5.5V, 30ms Power Sequencer	SOT-23-6	713.00/1,000		
LM3880MF-1ACCT-ND	2.7V to 5.5V, 60ms Power Sequencer	SOT-23-6	1.81	1.43	1.29
LM3880MF-1ACTR-ND	2.7V to 5.5V, 60ms Power Sequencer	SOT-23-6	713.00/1,000		
LM3880MF-1ADCT-ND	2.7V to 5.5V, 120ms Power Sequencer	SOT-23-6	1.81	1.43	1.29
LM3880MF-1ADTR-ND	2.7V to 5.5V, 120ms Power Sequencer	SOT-23-6	713.00/1,000		
LM3880MF-1AECT-ND	2.7V to 5.5V, 2ms Power Sequencer	SOT-23-6	1.81	1.43	1.29
LM3880MF-1AETR-ND	2.7V to 5.5V, 2ms Power Sequencer	SOT-23-6	713.00/1,000		
LM3880QMF-1AACT-ND	2.7V to 5.5V, 10ms Power Sequencer	SOT-23-6	2.56	1.98	1.80
LM3880QMF-1AATR-ND	2.7V to 5.5V, 10ms Power Sequencer	SOT-23-6	1061.00/1,000		
LM3880QMF-1ABCT-ND	2.7V to 5.5V, 30ms Power Sequencer	SOT-23-6	2.56	1.98	1.80
LM3880QMF-1ABTR-ND	2.7V to 5.5V, 30ms Power Sequencer	SOT-23-6	1061.00/1,000		
LM3880QMF-1ACCT-ND	2.7V to 5.5V, 60ms Power Sequencer	SOT-23-6	2.56	1.98	1.80
LM3880QMF-1ACTR-ND	2.7V to 5.5V, 60ms Power Sequencer	SOT-23-6	1061.00/1,000		
LM3880QMF-1ADCT-ND	2.7V to 5.5V, 120ms Power Sequencer	SOT-23-6	2.56	1.98	1.80
LM3880QMF-1ADTR-ND	2.7V to 5.5V, 120ms Power Sequencer	SOT-23-6	1061.00/1,000		
LM3880QMFE-1AECT-ND	2.7V to 5.5V, 120ms Power Sequencer ***NEW!***	SOT-23-6	2.56	1.98	1.80
LM3880QMFE-1AETR-ND	2.7V to 5.5V, 120ms Power Sequencer ***NEW!***	SOT-23-6	366.00/250		
LM3881MMCT-ND	2.7V to 5.5V Power Sequencer	8-MSOP	1.90	1.50	1.35
LM3881MMTR-ND	2.7V to 5.5V Power Sequencer	8-MSOP	750.00/1,000		

POWER MANAGEMENT SUPERVISORS

National Semiconductor Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM809M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23-3	.98	.76	.67
LM809M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23-3	355.00/1,000		
LM809M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V*	SOT-23-3	.98	.76	.67
LM809M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V*	SOT-23-3	355.00/1,000		
LM809M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23-3	.98	.76	.67
LM809M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23-3	355.00/1,000		
LM809M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23-3	.98	.76	.67
LM809M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23-3	355.00/1,000		
LM810M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23-3	.97	.75	.66
LM3702YDTP-220CT-ND	2.2V, MPU Supervisory Circuit, Low Line Output* ***NEW!***	9-µSMD	1.69	1.24	.90
LM3704XCMM-308CT-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	2.56	1.98	1.79
LM3704XCMM-308TR-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	1059.00/1,000		
LM3704YCMM-308CT-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	2.56	1.98	1.79
LM3704YCMM-308TR-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	1059.00/1,000		
LM3710XKMM-463CT-ND	4.63V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XQMM-308CT-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	3.15	2.58	2.31
LM3710XQMM-308TR-ND	3.08V, MPU Supervisory Circuit with Power Fail Input	10-MSOP	1470.00/1,000		
LM3724EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	3.16	2.44	2.22
LM3724EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1309.00/1,000		
LM3724EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	3.16	2.44	2.22
LM3724EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1309.00/1,000		
LM3724IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit*	SOT-23-5	2.66	2.06	1.87
LM3724IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit*	SOT-23-5	1102.00/1,000		
LM3724IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.66	2.06	1.87
LM3724IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1102.00/1,000		
LM3724IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	2.66	2.06	1.87
LM3724IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	1102.00/1,000		
LM8364BALMF20CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.82	.72
LM8364BALMF20TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	384.00/1,000		
LM8365BALMF27CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	1.06	.83	.73
LM8365BALMF27TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	387.00/1,000		
LP3470IM5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.77	1.37	1.24
LP3470IM5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	734.00/1,000		
LP3470IM5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.77	1.37	1.24
LP3470IM5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	734.00/1,000		
LP3470IM5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.77	1.37	1.24
LP3470IM5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	734.00/1,000		
LP3470IM5-4.00CT-ND	4V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.86	1.44	1.30
LP3470IM5-4.38/NOPBCT-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.77	1.37	1.24
LP3470IM5-4.38/NOPBTR-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	734.00/1,000		
LP3470IM5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.77	1.37	1.24
LP3470IM5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	734.00/1,000		
LP3470M5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	1.82	1.44	1.30
LP3470M5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	720.00/1,000		
LP3470M5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit*	SOT-23-5	1.82	1.44	1.30
LP3470M5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit*	SOT-23-5	720.00/1,000		
LP3470M5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	1.82	1.44	1.30
LP3470M5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	720.00/1,000		
LP3470M5-4.00CT-ND	5V, Voltage Monitor with Reset	SOT-23-5	1.82	1.44	1.30
LP3470M5-4.00TR-ND	5V, Voltage Monitor with Reset	SOT-23-5	720.00/1,000		
LP3470M5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	1.82	1.44	1.30
LP3470M5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	720.00/1,000		
LP3470M5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit*	SOT-23-5	1.82	1.44	1.30
LP3470M5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit*	SOT-23-5	720.00/1,000		

* *RoHS Compliant*

National Semiconductor Digi-Reel®

POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Standard					
LM1770SMFCT-ND	Low Voltage Synchronous Buck Controller	SOT-23-5	2.56	1.98	1.79
LM1770SMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	1059.00/1,000		
LM1770TMFCT-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	2.56	1.98	1.79
LM1770TMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	1059.00/1,000		
LM1770UMFCT-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	2.56	1.98	1.79
LM1770UMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	1059.00/1,000		
LM1771SMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.70	2.08	1.89
LM1771SMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1117.00/1,000		
LM1771TMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.70	2.08	1.89
LM1771TMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1117.00/1,000		
LM1771TSDCT-ND	Low Voltage Synchronous Buck Controller* ***NEW!***	6-LLP	2.70	2.08	1.89
LM1771TSDTR-ND	Low Voltage Synchronous Buck Controller* ***NEW!***	6-LLP	1117.00/1,000		
LM1771UMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.70	2.08	1.89
LM1771UMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1117.00/1,000		
LM1771USDCT-ND	Low Voltage Synchronous Buck Controller* ***NEW!***	6-LLP	2.70	2.08	1.89
LM1771USDTR-ND	Low Voltage Synchronous Buck Controller* ***NEW!***	6-LLP	1117.00/1,000		
LM2611AMFCT-ND	1.4MHz Cuk Converter*	SOT-23-5	3.15	2.58	2.31
LM2611AMFTR-ND	1.4MHz Cuk Converter*	SOT-23-5	1470.00/1,000		
LM2611BMFCT-ND	1.4MHz Cuk Converter*	SOT-23-5	3.47	2.68	2.43
LM2611BMFTR-ND	1.4MHz Cuk Converter*	SOT-23-5	1436.00/1,000		
LM2619ATLCT-ND	500mA Buck DC-DC Converter	10-µSMD	3.40	2.62	2.38
LM2619ATLTR-ND	500mA Buck DC-DC Converter*	10-µSMD	485.00/250		
LM2621MMCT-ND	Low Input Step-Up DC-DC Converter*	8-MSOP	2.17	1.68	1.52
LM2621MMTR-ND	Low Input Step-Up DC-DC Converter*	8-MSOP	899.00/1,000		
LM2623ALDCT-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	3.12	2.55	2.29
LM2623ALDTR-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	1456.00/1,000		
LM2623AMMCT-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	3.12	2.55	2.29
LM2623AMMTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	1456.00/1,000		
LM2623LDCT-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	14-LLP	2.91	2.25	2.04
LM2623LDTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	14-LLP	1204.00/1,000		
LM2623MMCT-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	2.91	2.25	2.04
LM2623MMTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	1204.00/1,000		
LM2633MTD-ND	2-Phase Sync. Triple Regulator Controller	48-TSSOP	6.92	5.56	5.07
LM2641MTC-ADJ-ND	Dual Adj. Buck Switching Power Supply Controller	28-TSSOP	8.50	6.97	6.29
LM2642MTC-ND	2-Phase Sync. Buck Switching Controller*	28-TSSOP	4.14	3.33	3.04
LM2647LQCT-ND	Dual Sync. Buck Regulator	28-LLP	5.40	4.41	3.96
LM2647LQTR-ND	Dual Sync. Buck Regulator*	28-LLP	2520.00/1,000		
LM2647MTC-ND	Dual Sync. Buck Regulator*	28-TSSOP	5.04	4.05	3.69
LM2650M-ADJ-ND	Synchronous Buck DC-DC Converter*	24-SOIC	8.65	7.10	6.41
LM2651MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.79	3.85	3.51
LM2651MTC-3.3-ND	3.3V, 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.79	3.85	3.51
LM2653MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.65	3.74	3.41
LM2655MTC-3.3-ND	3.3V, 2.5A, High Efficiency Sync. Switching Reg.* ***NEW!***	16-TSSOP	4.01	3.23	2.94
LM2657MTC-ND	Dual Synchronous Buck Regulator Controller* ***NEW!***	28-TSSOP	4.65	3.74	3.41
LM2660M-ND	100mA, Switched Capacitor Converter*	8-SOIC	1.98	1.60	1.44
LM2661M-ND	Switched Capacitor Voltage Converter* ***NEW!***	8-SOIC	2.05	1.65	1.49
LM2662M-ND	Switched Capacitor Voltage Converter*	8-SOIC	2.64	2.13	1.92
LM2663M-ND	Switched Capacitor Voltage Converter*	8-SOIC	2.57	2.08	1.87
LM2664M6CT-ND	Switched Capacitor Voltage Converter, 91% Eff.*	SOT-23-6	1.18	.93	.84
LM2664M6TR-ND	Switched Capacitor Voltage Converter, 91% Eff.*	SOT-23-6	465.00/1,000		
LM2665M6CT-ND	Switched Capacitor Voltage Converter, 90% Eff.*	SOT-23-6	1.37	1.08	.98
LM2665M6TR-ND	Switched Capacitor Voltage Converter, 90% Eff.*	SOT-23-6	540.00/1,000		
LM2682MMCT-ND	Switched Capacitor Voltage Doubling Inverter*	8-MSOP	2.03	1.57	1.43
LM2682MMTR-ND	Switched Capacitor Voltage Doubling Inverter*	8-MSOP	841.00/1,000		
LM2687LDCT-ND	Low Noise Regulated Switched Capacitor Voltage Inverter	8-LLP	1.83	1.36	1.01
LM2687MMCT-ND	Low Noise Regulated Switched Capacitor Voltage Inverter*	8-MSOP	1.93	1.49	1.35
LM2687MMTR-ND	Low Noise Regulated Switched Capacitor Voltage Inverter*	8-MSOP	798.00/1,000		
LM2694MT-ND	30V, 600mA Buck Switching Regulator*	14-TSSOP	2.91	2.35	2.12
LM2694SDCT-ND	30V, 600mA Buck Switching Regulator*	10-LLP	3.29	2.54	2.31
LM2694SDTR-ND	30V, 600mA Buck Switching Regulator*	10-LLP	1363.00/1,000		
LM2695MH-ND	30V, 1.25A Buck Switching Regulator*	14-TSSOP	3.33	2.68	2.44
LM2695SDCT-ND	30V, 1.25A Buck Switching Regulator*	10-LLP	3.57	2.92	2.62
LM2695SDTR-ND	30V, 1.25A Buck Switching Regulator*	10-LLP	1666.00/1,000		
LM2696MXA-ND	3A Constant On Time Buck Regulator*	16-TSSOP	4.48	3.60	3.28
LM2717MT-ND	Dual Buck DC-DC Converter*	24-TSSOP	6.18	5.07	4.57
LM2717MT-ADJ-ND	Dual Buck DC-DC Converter* ***NEW!***	24-TSSOP	6.18	5.07	4.57
LM2727MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	3.09	2.50	2.25
LM2731XMFCT-ND	0.6/1.6MHz Boost Conv. w/22V Internal FET Switch*	SOT-23-5	3.13	2.42	2.19
LM2731XMFTR-ND	0.6/1.6MHz Boost Conv. w/22V Internal FET Switch*	SOT-23-5	1295.00/1,000		
LM2731YMFCT-ND	0.6/1.6MHz Boost Conv. w/22V Internal FET Switch*	SOT-23-5	3.13	2.42	2.19
LM2731YMFTR-ND	0.6/1.6MHz Boost Conv. w/22V Internal FET Switch*	SOT-23-5	1295.00/1,000		
LM2733XMFCT-ND	0.6/1.6MHz Boost Conv. w/40V Internal FET Switch*	SOT-23-5	3.06	2.36	2.15
LM2733XMFTR-ND	0.6/1.6MHz Boost Conv. w/40V Internal FET Switch*	SOT-23-5	1267.00/1,000		
LM2733YMFCT-ND	0.6/1.6MHz Boost Conv. w/40V Internal FET Switch*	SOT-23-5	3.06	2.36	2.15
LM2733YMFTR-ND	0.6/1.6MHz Boost Conv. w/40V Internal FET Switch*	SOT-23-5	1267.00/1,000		
LM2734XMKCT-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	3.57	2.92	2.62
LM2734XMKTR-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	1666.00/1,000		
LM2734XQMKECT-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	4.41	3.61	3.24
LM2734XQMKETR-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	680.00/250		
LM2734YMKCT-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	2.85	2.33	2.09
LM2734YMKTR-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	1330.00/1,000		
LM2734YQMKECT-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	3.72	3.04	2.73
LM2734YQMKETR-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	573.50/250		
LM2734ZMKCT-ND	1A Load Buck DC-DC Regulator	TSOT-23-6	4.41	3.61	3.24
LM2734ZMKTR-ND	1A Load Buck DC-DC Regulator	TSOT-23-6	2058.00/1,000		
LM2734ZQMKECT-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	5.13	4.19	3.77
LM2734ZQMKETR-ND	1A Load Buck DC-DC Regulator*	SOT-23-6	791.00/250		
LM2734ZQSDECT-ND	1A Load Step-Down DC-DC Regulator*	6-LLP	5.13	4.19	3.77
LM2734ZQSDETR-ND	1A Load Step-Down DC-DC Regulator*	6-LLP	791.00/250		
LM2734ZSDCT-ND	1A Load Buck DC-DC Regulator*	6-LLP	4.41	3.61	3.24
LM2734ZSDTR-ND	1A Load Buck DC-DC Regulator*	6-LLP	2058.00/1,000		
LM2735XMFCT-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	3.57	2.92	2.62
LM2735XMFTR-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	1666.00/1,000		
LM2735XMYCT-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	8-eMSOP	3.57	2.92	2.62
LM2735XMYTR-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	8-eMSOP	1666.00/1,000		
LM2735XQMFCT-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	4.41	3.61	3.24
LM2735XQMFTR-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	2058.00/1,000		
LM2735XSDCT-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	6-LLP	3.57	2.92	2.62
LM2735XSDTR-ND	1.6MHz Boost and SEPIC DC-DC Regulator*	6-LLP	1666.00/1,000		
LM2735YMFCT-ND	520kHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	3.57	2.92	2.62
LM2735YMFTR-ND	520kHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	1666.00/1,000		
LM2735YMYCT-ND	520kHz Boost and SEPIC DC-DC Regulator*	8-eMSOP	3.57	2.92	2.62
LM2735YMYTR-ND	520kHz Boost and SEPIC DC-DC Regulator*	8-eMSOP	1666.00/1,000		
LM2735YQMFCT-ND	520kHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	4.41	3.61	3.24
LM2735YQMFTR-ND	520kHz Boost and SEPIC DC-DC Regulator*	SOT-23-5	2058.00/1,000		
LM2735YSDCT-ND	520kHz Boost and SEPIC DC-DC Regulator*	6-LLP	3.57	2.92	2.62
LM2735YSDTR-ND	520kHz Boost and SEPIC DC-DC Regulator*	6-LLP	1666.00/1,000		
LM2736XMKCT-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	3.15	2.58	2.31
LM2736XMKTR-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	1470.00/1,000		
LM2736YMKCT-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	3.12	2.55	2.29
LM2736YMKTR-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	1295.00/1,000		
LM2737MTC-ND	N-Channel FET Sync. Buck Regulator Controller	14-TSSOP	3.09	2.50	2.25
LM2738XMYCT-ND	1.6MHz, 1.5A Buck DC-DC Switching Regulator*	8-eMSOP	4.14	3.39	3.04
LM2738XMYTR-ND	1.6MHz, 1.5A Buck DC-DC Switching Regulator*	8-eMSOP	1932.00/1,000		
LM2738XSDCT-ND	1.6MHz, 1.5A Buck DC-DC Switching Regulator*	8-LLP	4.14	3.39	3.04
LM2738XSDTR-ND	1.6MHz, 1.5A Buck DC-DC Switching Regulator*	8-LLP	1932.00/1,000		
LM2738YMYCT-ND	550kHz, 1.5A Buck DC-DC Switching Regulator*	8-eMSOP	3.66	2.99	2.69
LM2738YMYTR-ND	550kHz, 1.5A Buck DC-DC Switching Regulator*	8-eMSOP	1708.00/1,000		
LM2738YSDCT-ND	550kHz, 1.5A Buck DC-DC Switching Regulator*	8-LLP	3.66	2.99	2.69
LM2738YSDTR-ND	550kHz, 1.5A Buck DC-DC Switching Regulator*	8-LLP	1708.00/1,000		
LM2742MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	2.91	2.34	2.14
LM2743MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	3.05	2.46	2.24
LM2744MTC-ND	Low Volt. N-Ch. MOSFET Sync. Buck Reg. Controller	14-TSSOP	2.91	2.34	2.14
LM2745MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.47	2.79	2.55
LM2747MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.47	2.79	2.55
LM2747MTCXCT-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.72	3.04	2.73
LM2747MTCXTR-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	4122.50/2,500		
LM2748MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.47	2.79	2.55
LM2750LD-5.0CT-ND	LN, 5.0V Regulator Switched Capacitor Volt. Converter	10-LLP	3.39	2.77	2.49
LM2750LD-5.0TR-ND	LN, 5.0V Regulator Switched Capacitor Volt. Converter	10-LLP	1582.00/1,000		
LM2750LD-ADJCT-ND	LN, Adj. Regulator Switched Capacitor Volt. Converter	10-LLP	3.39	2.77	2.49
LM2750LD-ADJTR-ND	LN, Adj. Regulator Switched Capacitor Volt. Converter	10-LLP	1582.00/1,000		
LM2750LD-ADJEV-ND	Evaluation Board for LM2750LD-ADJ*	—	82.59	—	—
LM2750SD-5.0CT-ND	5V Low Noise Switched Capacitor Boost Regulator*	10-LLP	3.39	2.77	2.49
LM2750SD-5.0TR-ND	5V Low Noise Switched Capacitor Boost Regulator*	10-LLP	1582.00/1,000		
LM2750SD-ADJCT-ND	Adj. Low Noise Switched Cap. Boost Regulator* ***NEW!***	10-LLP	3.39	2.77	2.49
LM2750SD-ADJTR-ND	Adj. Low Noise Switched Cap. Boost Regulator* ***NEW!***	10-LLP	1582.00/1,000		
LM2766M6CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.10	.87	.79
LM2766M6TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	435.00/1,000		
LM2767M5CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.03	.81	.73
LM2767M5TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	405.00/1,000		
LM2771SDCT-ND	250mA Switched Cap. Step-Down DC/DC Converter* ***NEW!***	10-LLP	2.84	2.19	1.99
LM2771SDTR-ND	250mA Switched Cap. Step-Down DC/DC Converter* ***NEW!***	10-LLP	1175.00/1,000		
LM2772SDCT-ND	Low Ripple Switched Capacitor Step-Down Regulator*	10-LLP	2.63	2.03	1.84
LM2772SDTR-ND	Low Ripple Switched Capacitor Step-Down Regulator*	10-LLP	1088.00/1,000		
LM2773TLCT-ND	Low Ripple Switched Cap. Step-Down Reg.*	9-µSMD	2.65	2.14	1.93
LM2773TLTR-ND	Low Ripple Switched Cap. Step-Down Reg.*	9-µSMD	427.50/250		
LM2825HN-ADJ-ND	Adjustable Integrated Power Supply 1A DC-DC Conv.*	24-Dip	37.80	32.13	29.77
LM2825N-ADJ-ND	Adjustable DC-DC Converter*	24-Dip	37.80	32.13	29.77
LM2825N-5.0-ND	5V, Integrated Power Supply 1A DC-DC Converter*	24-Dip	37.80	32.13	29.77
LM2825N-12-ND	12V, Integrated Power Supply 1A DC-DC Converter*	24-Dip	37.80	32.13	29.77
LM2830XMFCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	2.73	2.23	2.01
LM2830XMFTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	1274.00/1,000		
LM2830XQMFECT-ND	High Freq. 1A Load, Buck DC/DC Reg.*	SOT-23-5	3.06	2.50	2.25
LM2830XQMFETR-ND	High Freq. 1A Load, Buck DC/DC Reg.*	SOT-23-5	471.75/250		
LM2830ZMFCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	2.73	2.23	2.01
LM2830ZMFTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	1274.00/1,000		
LM2830ZSDCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	6-LLP	2.73	2.23	2.01
LM2830ZSDTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	6-LLP	1274.00/1,000		
LM2831XMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	2.94	2.41	2.16
LM2831XMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	1372.00/1,000		
LM2831XSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	2.94	2.41	2.16
LM2831XSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	1372.00/1,000		
LM2831YMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	2.94	2.41	2.16
LM2831YMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	1372.00/1,000		
LM2831YSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	2.94	2.41	2.16
LM2831YSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	1372.00/1,000		
LM2831ZMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	2.94	2.41	2.16
LM2831ZMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	1372.00/1,000		
LM2831ZSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	2.94	2.41	2.16
LM2831ZSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	1372.00/1,000		
LM2832XMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	3.45	2.82	2.53
LM2832XMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	1610.00/1,000		
LM2832XSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	3.45	2.82	2.53
LM2832XSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	1610.00/1,000		
LM2832YMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	3.45	2.82	2.53
LM2832YMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	1610.00/1,000		
LM2832YSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	3.45	2.82	2.53
LM2832YSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	1610.00/1,000		
LM2832ZMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	3.45	2.82	2.53
LM2832ZMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	1610.00/1,000		
LM2832ZSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	3.45	2.82	2.53
LM2832ZSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	1610.00/1,000		
LM2833XMYCT-ND	3A, 1.5MHz/3MHz Step-Down Switching Reg.* ***NEW!***	10-eMSOP	3.84	3.14	2.82
LM2833XMYTR-ND	3A, 1.5MHz/3MHz Step-Down Switching Reg.* ***NEW!***	10-eMSOP	1792.00/1,000		
LM2833XSDCT-ND	3A, 1.5MHz Step-Down Switching Regulator*	10-LLP	3.84	3.14	2.82
LM2833XSDTR-ND	3A, 1.5MHz Step-Down Switching Regulator*	10-LLP	1792.00/1,000		
LM2833ZMYCT-ND	3A, 3MHz Step-Down Switching Regulator*	10-eMSOP	4.17	3.41	3.06
LM2833ZMYTR-ND	3A, 3MHz Step-Down Switching Regulator*	10-eMSOP	1946.00/1,000		
LM2833ZSDCT-ND	3A, 3MHz Step-Down Switching Regulator*	10-LLP	4.17	3.41	3.06
LM2833ZSDTR-ND	3A, 3MHz Step-Down Switching Regulator*	10-LLP	1946.00/1,000		
LM2841XMK-ADJLCT-ND	Adj., 300mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	3.90	3.19	2.86
LM2841XMK-ADJLTR-ND	Adj., 300mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	1820.00/1,000		
LM2841YMK-ADJLCT-ND	Adj., 300mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	4.02	3.29	2.95
LM2841YMK-ADJLTR-ND	Adj., 300mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	1876.00/1,000		
LM2842XMK-ADJLCT-ND	Adj., 600mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	4.35	3.56	3.19
LM2842XMK-ADJLTR-ND	Adj., 600mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	2030.00/1,000		
LM2842YMK-ADJLCT-ND	Adj., 600mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	4.56	3.73	3.35
LM2842YMK-ADJLTR-ND	Adj., 600mA Step-Down DC-DC Regulator* ***NEW!***	TSOT-6	2128.00/1,000		
LM3218SEECT-ND	Adj., 2.0MHz, Step Down DC-DC Converter*	8-LTCC	3.42	2.80	2.51
LM3218SEETR-ND	Adj., 2.0MHz, Step Down DC-DC Converter*	8-LTCC	527.25/250		
LM3224MM-ADJCT-ND	Adj., 615kHz/1.25MHz Step Up PWM DC-DC Converter*	8-MSOP	3.15	2.58	2.31
LM3224MM-ADJTR-ND	Adj., 615kHz/1.25MHz Step Up PWM DC-DC Converter*	8-MSOP	1470.00/1,000		
LM3475MFTR-ND	Hysteretic PFET Buck Controller*	SOT-23-5	713.00/1,000		
LM3477AMMCT-ND	High Eff. High Side N-Ch. Controller for Switching Reg.	8-MSOP	2.99	2.31	2.10
LM3477AMMTR-ND	High Eff. High Side N-Ch. Controller for Switching Reg.	8-MSOP	1240.00/1,000		
LM3477MMCT-ND	High Eff. High Side N-Ch. Controller for Switching Reg.	8-MSOP	2.99	2.31	2.10
LM3477MMTR-ND	High Eff. High Side N-Ch. Controller for Switching Reg.	8-MSOP	1240.00/1,000		

* ***RoHS Compliant***

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(Continued)

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3478MMCT-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.*	8-MSOP	2.96	2.29	2.08
LM3478MMTR-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.*	8-MSOP	1225.00/1,000		
LM3478QMMCT-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.* ***NEW!***	8-MSOP	3.09	2.53	2.27
LM3478QMMTR-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.* ***NEW!***	8-MSOP	1442.00/1,000		
LM3481MMCT-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	10-MSOP	3.54	2.90	2.60
LM3481MMTR-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	10-MSOP	1652.00/1,000		
LM3485MMCT-ND	Hysteric PFET Buck Controller*	8-MSOP	1.83	1.42	1.29
LM3485MMTR-ND	Hysteric PFET Buck Controller*	8-MSOP	758.00/1,000		
LM3485EVAL-ND	Evaluation Board for LM3485*	—	33.92	—	—
LM3488MMCT-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	8-MSOP	3.39	2.62	2.38
LM3488MMTR-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	8-MSOP	1405.00/1,000		
LM3488QMMCT-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.* ***NEW!***	8-MSOP	3.66	2.99	2.69
LM3488QMMTR-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.* ***NEW!***	8-MSOP	1708.00/1,000		
LM3489MMCT-ND	Hysteretic PFET Buck Controller with Enable Pin*	8-MSOP	2.00	1.54	1.40
LM3489MMTR-ND	Hysteretic PFET Buck Controller with Enable Pin*	8-MSOP	827.00/1,000		
LM3489QMMCT-ND	Hysteretic PFET Buck Controller with Enable Pin* ***NEW!***	8-MSOP	2.21	1.71	1.55
LM3489QMMTR-ND	Hysteretic PFET Buck Controller with Enable Pin* ***NEW!***	8-MSOP	914.00/1,000		
LM3495MTC-ND	Emulated Peak Current Mode Buck Controller*	16-TSSOP	6.41	5.16	4.70
LM3495MTCXCT-ND	Emulated Peak Current Mode Buck Controller*	16-TSSOP	6.87	5.62	5.04
LM3495MTCXTR-ND	Emulated Peak Current Mode Buck Controller*	16-TSSOP	7615.00/2,500		
LM3578AM-ND	Switching Regulator*	8-SOIC	2.06	1.66	1.50
LM3578AN-ND	Switching Regulator*	8-Dip	2.06	1.66	1.50
LM3676SD-1.5CT-ND	1.5V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	3.33	2.57	2.33
LM3676SD-1.5TR-ND	1.5V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1378.00/1,000		
LM3676SD-1.8CT-ND	1.8V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	3.33	2.57	2.33
LM3676SD-1.8TR-ND	1.8V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1378.00/1,000		
LM3676SD-3.3CT-ND	3.3V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	3.33	2.57	2.33
LM3676SD-3.3TR-ND	3.3V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1378.00/1,000		
LM3676SD-ADJCT-ND	Adj., 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	3.33	2.57	2.33
LM3676SD-ADJTR-ND	Adj., 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1378.00/1,000		
LM5000-3MTC-ND	High Voltage Switch Mode Regulator*	16-TSSOP	5.32	4.28	3.90
LM5000SD-3CT-ND	High Voltage Switch Mode Regulator	16-LLP	5.70	4.66	4.18
LM5000SD-3TR-ND	High Voltage Switch Mode Regulator	16-LLP	2660.00/1,000		
LM5000SD-6CT-ND	High Voltage Switch Mode Regulator	16-LLP	5.70	4.66	4.18
LM5000SD-6TR-ND	High Voltage Switch Mode Regulator	16-LLP	2660.00/1,000		
LM5001MA-ND	High Voltage Switch Mode Regulator*	8-SOIC	4.79	3.85	3.51
LM5001SDCT-ND	High Voltage Switch Mode Regulator*	8-LLP	5.13	4.19	3.77
LM5001SDTR-ND	High Voltage Switch Mode Regulator*	8-LLP	2394.00/1,000		
LM5002MA-ND	High Voltage Switch Mode Regulator*	8-SOIC	4.54	3.65	3.33
LM5002SDCT-ND	High Voltage Switch Mode Regulator*	8-LLP	4.86	3.97	3.57
LM5002SDTR-ND	High Voltage Switch Mode Regulator*	8-LLP	2268.00/1,000		
LM5005MH-ND	High Voltage 2.5A Buck Regulator*	20-TSSOP	6.30	5.17	4.67
LM5007EVAL-ND	Evaluation Board for LM5007	—	33.92	—	—
LM5007MMCT-ND	80V Buck Switching Regulator*	8-MSOP	4.41	3.61	3.24
LM5007MMTR-ND	80V Buck Switching Regulator*	8-MSOP	2058.00/1,000		
LM5007SDCT-ND	80V Buck Switching Regulator*	8-LLP	4.41	3.61	3.24
LM5007SDTR-ND	80V Buck Switching Regulator*	8-LLP	2058.00/1,000		
LM5008AMMCT-ND	100V, 350mA Buck Switching Regulator* ***NEW!***	8-MSOP	4.86	3.97	3.57
LM5008AMMTR-ND	100V, 350mA Buck Switching Regulator* ***NEW!***	8-MSOP	2268.00/1,000		
LM5008ASDCT-ND	100V, 350mA Buck Switching Regulator* ***NEW!***	8-LLP	4.86	3.97	3.57
LM5008ASDTR-ND	100V, 350mA Buck Switching Regulator* ***NEW!***	8-LLP	2268.00/1,000		
LM5008EVAL-ND	Evaluation Board for LM5008	—	33.92	—	—
LM5008MMCT-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	4.26	3.48	3.13
LM5008MMTR-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	1988.00/1,000		
LM5008SDCCT-ND	100V, 150mA Buck Switching Regulator*	8-LLP	4.26	3.48	3.13
LM5008SDCTR-ND	100V, 150mA Buck Switching Regulator*	8-LLP	1988.00/1,000		
LM5009AMMCT-ND	100V, 150mA Buck Switching Regulator* ***NEW!***	8-MSOP	2.85	2.33	2.09
LM5009AMMTR-ND	100V, 150mA Buck Switching Regulator* ***NEW!***	8-MSOP	1330.00/1,000		
LM5009ASDCT-ND	100V, 150mA Buck Switching Regulator* ***NEW!***	8-LLP	2.85	2.33	2.09
LM5009ASDTR-ND	100V, 150mA Buck Switching Regulator* ***NEW!***	8-LLP	1330.00/1,000		
LM5009MMCT-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	2.77	2.26	2.03
LM5009MMTR-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	1291.00/1,000		
LM5009SDCCT-ND	100V, 150mA Buck Switching Regulator*	8-LLP	2.77	2.26	2.03
LM5009SDCTR-ND	100V, 150mA Buck Switching Regulator*	8-LLP	1291.00/1,000		
LM5010AMH-ND	75V, 1A Buck Switching Regulator*	14-TSSOP	5.04	4.05	3.69
LM5010AQ0MH-ND	1A Step-Down Switching Regulator*	14-TSSOP	6.75	5.54	5.00
LM5010AQ1MH-ND	1A Step-Down Switching Regulator*	14-TSSOP	6.05	4.86	4.43
LM5010ASDCT-ND	75V, 1A Buck Switching Regulator*	10-LLP	5.40	4.41	3.96
LM5010ASDTR-ND	75V, 1A Buck Switching Regulator*	10-LLP	2520.00/1,000		
LM5010MH-ND	75V, 1A Buck Switching Regulator*	14-TSSOP	4.70	3.78	3.45
LM5010SDCT-ND	75V, 1A Buck Switching Regulator*	10-LLP	5.04	4.12	3.70
LM5010SDTR-ND	75V, 1A Buck Switching Regulator*	10-LLP	2352.00/1,000		
LM5015MH-ND	High Voltage Two-Switch DC-DC Regulator*	14-eTSSOP	5.18	4.17	3.80
LM5115MTC-ND	Secondary Side Post Regulator Controller*	16-TSSOP	4.26	3.42	3.12
LM5115SDCT-ND	Secondary Side Post Regulator Controller*	16-LLP	4.56	3.73	3.35
LM5115SDTR-ND	Secondary Side Post Regulator Controller*	16-LLP	2128.00/1,000		
LM7705MMECT-ND	Low Noise Regulated Switched Cap. Volt. Inverter*	8-MSOP	1.48	1.17	1.06
LM7705MMETR-ND	Low Noise Regulated Switched Cap. Volt. Inverter*	8-MSOP	209.75/250		
LM20123MH-ND	3A, 1.5MHz Synchronous Buck Regulator*	16-eTSSOP	5.29	4.26	3.88
LM22670MR-ADJ-ND	3A, Adjustable Buck Switching Regulator* ***NEW!***	8-PSOP	5.26	4.23	3.86
LM25005MH-ND	High Voltage, 2.5A Buck Switching Regulator*	20-TSSOP	6.13	4.93	4.49
LM25007MMCT-ND	High Voltage, 0.5A Buck Switching Regulator*	8-MSOP	3.42	2.80	2.51
LM25007MMTR-ND	High Voltage, 0.5A Buck Switching Regulator*	8-MSOP	1596.00/1,000		
LM25007SDCT-ND	High Voltage, 0.5A Buck Switching Regulator*	8-LLP	3.42	2.80	2.51
LM25007SDTR-ND	High Voltage, 0.5A Buck Switching Regulator*	8-LLP	1596.00/1,000		
LM25010MH-ND	42V, 1.0A Buck Switching Regulator*	14-TSSOP	3.25	2.61	2.38
LM25010Q0MH-ND	42V, 1.0A Buck Switching Regulator ***NEW!***	14-TSSOP	4.84	3.90	3.55
LM25010Q1MH-ND	42V, 1.0A Buck Switching Regulator ***NEW!***	14-TSSOP	3.89	3.13	2.85
LM25010SDCT-ND	42V, 1.0A Buck Switching Regulator*	10-LLP	3.48	2.85	2.56
LM25010SDTR-ND	42V, 1.0A Buck Switching Regulator*	10-LLP	1624.00/1,000		
LM25011MYCT-ND	42V, 2.0A Buck Switching Regulator* ***NEW!***	10-eMSOP	4.86	3.97	3.57
LM25011MYTR-ND	42V, 2.0A Buck Switching Regulator* ***NEW!***	10-eMSOP	2268.00/1,000		
LM25085AMMECT-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-MSOP	2.83	2.19	1.98
LM25085AMMETR-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-MSOP	404.00/250		
LM25085AMYECT-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-eMSOP	2.83	2.19	1.98
LM25085AMYETR-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-eMSOP	404.00/250		
LM25085ASDECT-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-LLP	2.89	2.24	2.03
LM25085ASDETR-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-LLP	413.00/250		
LM25085SDECT-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-LLP	2.66	2.06	1.87
LM25085SDETR-ND	42V, PFET Buck Switching Controller* ***NEW!***	8-LLP	380.00/250		
LM25115AMT-ND	Secondary Side Post Regulator Controller*	16-TSSOP	3.47	2.79	2.55
LM25115MT-ND	Secondary Side Post Regulator Controller*	16-TSSOP	3.33	2.68	2.44

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM25115SDCT-ND	Secondary Side Post Regulator Controller*	16-LLP	3.57	2.92	2.62
LM25115SDTR-ND	Secondary Side Post Regulator Controller*	16-LLP	1666.00/1,000		
LM25116MH-ND	Wide Range Synchronous Buck Controller*	20-TSSOP	6.38	5.13	4.68
LM26400YMH-ND	Dual 2A, 500kHz Wide Input Range Buck Regulator*	16-eTSSOP	5.88	4.73	4.31
LM26400YSDCT-ND	Dual 2A, 500kHz Buck Regulator*	16-LLP	6.30	5.15	4.62
LM26400YSDTR-ND	Dual 2A, 500kHz Buck Regulator*	16-LLP	2940.00/1,000		
LM27313XMFCT-ND	1.6MHz Boost Converter, 30V Internal FET Switch*	SOT-23-5	2.00	1.54	1.40
LM27313XMFTR-ND	1.6MHz Boost Converter, 30V Internal FET Switch*	SOT-23-5	827.00/1,000		
LM27341MYCT-ND	2MHz, 1.5A Step-Down DC-DC Regulator*	10-eMSOP	4.38	3.58	3.22
LM27341MYTR-ND	2MHz, 1.5A Step-Down DC-DC Regulator*	10-eMSOP	2044.00/1,000		
LM27341QMYCT-ND	2MHz, 1.5A Step-Down DC-DC Regulator* ***NEW!***	10-eMSOP	5.10	4.17	3.74
LM27341QMYTR-ND	2MHz, 1.5A Step-Down DC-DC Regulator* ***NEW!***	10-eMSOP	2380.00/1,000		
LM27341SDCT-ND	2MHz, 1.5A Step-Down DC-DC Regulator*	10-LLP	4.38	3.58	3.22
LM27341SDTR-ND	2MHz, 1.5A Step-Down DC-DC Regulator*	10-LLP	2044.00/1,000		
LM27342MYCT-ND	2MHz, 2A Step-Down DC-DC Regulator*	10-eMSOP	4.53	3.70	3.33
LM27342MYTR-ND	2MHz, 2A Step-Down DC-DC Regulator*	10-eMSOP	2114.00/1,000		
LM27342QMYCT-ND	2MHz, 2A Step-Down DC-DC Regulator* ***NEW!***	10-eMSOP	5.25	4.29	3.85
LM27342QMYTR-ND	2MHz, 2A Step-Down DC-DC Regulator* ***NEW!***	10-eMSOP	2450.00/1,000		
LM27342SDCT-ND	2MHz, 2A Step-Down DC-DC Regulator*	10-LLP	4.53	3.70	3.33
LM27342SDTR-ND	2MHz, 2A Step-Down DC-DC Regulator*	10-LLP	2114.00/1,000		
LM34910CSDCT-ND	55V, 1.25A, High Voltage Buck Switching Regulator*	10-LLP	4.14	3.39	3.04
LM34910CSDTR-ND	55V, 1.25A, High Voltage Buck Switching Regulator*	10-LLP	1932.00/1,000		
LM34910SDCT-ND	40V, 1.25A, High Voltage Buck Switching Regulator	10-LLP	4.17	3.41	3.06
LM34910SDTR-ND	40V, 1.25A, High Voltage Buck Switching Regulator	10-LLP	1946.00/1,000		
LM34914SDCT-ND	40V, 1.25A, Ultra Small Buck Switching Regulator*	10-LLP	3.93	3.21	2.89
LM34914SDTR-ND	40V, 1.25A, Ultra Small Buck Switching Regulator*	10-LLP	1834.00/1,000		
	PowerWise®				
LM25085MMECT-ND	Adj. 42V, High Efficiency PFET Buck Switching Controller*	8-MSOP	2.56	1.98	1.80
LM25085MMETR-ND	Adj. 42V, High Efficiency PFET Buck Switching Controller*	8-MSOP	366.00/250		
LM25085MYECT-ND	Adj. 42V, High Efficiency PFET Buck Switching Controller*	8-MSOP	2.56	1.98	1.80
LM25085MYETR-ND	Adj. 42V, High Efficiency PFET Buck Switching Controller*	8-MSOP	366.00/250		
LM3000ASQCT-ND	Dual Synchronous, Current-Mode Controller* ***NEW!***	32-LLP	7.39	6.14	5.58
LM3000ASQTR-ND	Dual Synchronous, Current-Mode Controller* ***NEW!***	32-LLP	3767.00/1,000		
LM3000SQCT-ND	Dual Synchronous, Current-Mode Controller* ***NEW!***	32-LLP	7.39	6.14	5.58
LM3000SQTR-ND	Dual Synchronous, Current-Mode Controller* ***NEW!***	32-LLP	3767.00/1,000		
LM3205TLCT-ND	650mA, Adjustable, Step-Down DC-DC Converter*	8-µSMD	4.56	3.73	3.35
LM3205TLTR-ND	650mA, Adjustable, Step-Down DC-DC Converter*	8-µSMD	703.00/250		
LM3207TL-2.53CT-ND	650mA, Adj., Step-Down DC-DC Converter/LDO*	9-µSMD	2.61	2.14	1.92
LM3207TL-2.53TR-ND	650mA, Adj., Step-Down DC-DC Converter/LDO*	9-µSMD	402.50/250		
LM3207TLCT-ND	650mA, Adj., Step-Down DC-DC Converter/LDO*	9-µSMD	2.61	2.14	1.92
LM3207TLTR-ND	650mA, Adj., Step-Down DC-DC Converter/LDO*	9-µSMD	402.50/250		
LM3208TLCT-ND	650mA, Adj., Step-Down DC-DC Converter*	8-µSMD	6.57	5.37	4.82
LM3208TLTR-ND	650mA, Adj., Step-Down DC-DC Converter*	8-µSMD	1013.00/250		
LM3370SD-3013CT-ND	600mA Dual Sync. Step-Down DC/DC Converter* ***NEW!***	16-LLP	3.72	3.04	2.73
LM3370SD-3013TR-ND	600mA Dual Sync. Step-Down DC/DC Converter* ***NEW!***	16-LLP	1736.00/1,000		
LM3370SD-3021CT-ND	600mA Dual Sync. Step-Down DC/DC Converter* ***NEW!***	16-LLP	3.72	3.04	2.73
LM3370SD-3021TR-ND	600mA Dual Sync. Step-Down DC/DC Converter* ***NEW!***	16-LLP	1736.00/1,000		
LM3370SD-3621CT-ND	600mA Dual Sync. Step-Down DC-DC Converter*	16-LLP	3.47	2.79	2.55
LM3370SD-3621TR-ND	600mA Dual Sync. Step-Down DC-DC Converter*	16-LLP	1736.00/1,000		
LM3370SD-4221CT-ND	Dual Sync. Step-Down DC-DC Converter* ***NEW!***	16-LLP	3.72	3.04	2.73
LM3370SD-4221TR-ND	Dual Sync. Step-Down DC-DC Converter* ***NEW!***	16-LLP	1736.00/1,000		
LM3370TL-3006CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3008CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3008TR-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	573.50/250		
LM3370TL-3022CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3022TR-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	573.50/250		
LM3370TL-3206CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3206TR-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	573.50/250		
LM3370TL-3607CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3607TR-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	573.50/250		
LM3370TL-3806CT-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	3.72	3.04	2.73
LM3370TL-3806TR-ND	Dual Sync. Step-Down DC-DC Converter*	20-µSMD	573.50/250		
LM34917ATLCT-ND	33V, 1.25A On-Time Buck Switching Regulator*	12-µSMD	3.14	2.52	2.30
LM34917ATLTR-ND	33V, 1.25A On-Time Buck Switching Regulator*	12-µSMD	518.00/250		
LM34919TLCT-ND	40V, 600mA On-Time Buck Switching Regulator*	10-µSMD	3.49	2.70	2.45
LM34919TLTR-ND	40V, 600mA On-Time Buck Switching Regulator*	10-µSMD	499.00/250		
LM34930TLCT-ND	Ultra Small High Voltage 1A Buck Switching Regulator*	12-µSMD	3.06	2.50	2.25
LM34930TLTR-ND	Ultra Small High Voltage 1A Buck Switching Regulator*	12-µSMD	471.75/250		
LM3668SD-2833CT-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	6.45	5.27	4.73
LM3668SD-2833TR-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	3010.00/1,000		
LM3668SD-3034CT-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	6.45	5.27	4.73
LM3668SD-3034TR-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	3010.00/1,000		
LM3668SD-4550CT-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	6.45	5.27	4.73
LM3668SD-4550TR-ND	1A, High Efficiency Buck-Boost DC-DC Converter*	12-LLP	3010.00/1,000		
LM3670MF-ADJCT-ND	Adj., Mini Buck DC-DC Converter	SOT-23-5	2.35	1.81	1.65
LM3670MF-ADJTR-ND	Adj., Mini Buck DC-DC Converter	SOT-23-5	972.00/1,000		
LM3670MF-1.2CT-ND	1.2V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-1.2TR-ND	1.2V, Mini Buck DC-DC Converter*	SOT-23-5	972.00/1,000		
LM3670MF-1.5CT-ND	1.5V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-1.6CT-ND	1.6V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	SOT-23-5	972.00/1,000		
LM3670MF-1.875CT-ND	1.875V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-1.875TR-ND	1.875V, Mini Buck DC-DC Converter*	SOT-23-5	972.00/1,000		
LM3670MF-3.3CT-ND	3.3V, Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MF-3.3TR-ND	3.3V, Mini Buck DC-DC Converter*	SOT-23-5	972.00/1,000		
LM3670MFX-ADJCT-ND	Adj., Mini Buck DC-DC Converter*	SOT-23-5	2.35	1.81	1.65
LM3670MFX-ADJTR-ND	Adj., Mini Buck DC-DC Converter*	SOT-23-5	2715.00/3,000		
LM3671LC-1.2CT-ND	1.2V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.43	2.65	2.41
LM3671LC-1.2TR-ND	1.2V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	1421.00/1,000		
LM3671LC-1.3CT-ND	1.3V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.43	2.65	2.41
LM3671LC-1.3TR-ND	1.3V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	1421.00/1,000		
LM3671LC-1.6CT-ND	1.6V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.43	2.65	2.41
LM3671LC-1.6TR-ND	1.6V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	1421.00/1,000		
LM3671LC-1.8CT-ND	1.8V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.43	2.65	2.41
LM3671LC-1.8TR-ND	1.8V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	1421.00/1,000		
LM3671MF-ADJCT-ND	Adj., 600mA Mini Buck DC-DC Converter*	SOT-23-5	3.33	2.57	2.33
LM3671MF-ADJTR-ND	Adj., 600mA Mini Buck DC-DC Converter*	SOT-23-5	1378.00/1,000		
LM3671MF-1.2CT-ND	1.2V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	3.33	2.57	2.33
LM3671MF-1.2TR-ND	1.2V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	1378.00/1,000		
LM3671MF-1.25CT-ND	1.25V, 600mA Mini Buck DC-DC Converter	SOT-23-5	3.33	2.57	2.33
LM3671MF-1.25TR-ND	1.25V, 600mA Mini Buck DC-DC Converter	SOT-23-5	1378.00/1,000		
LM3671MF-1.5CT-ND	1.5V, 600mA Mini Buck DC-DC Converter	SOT-23-5	3.33	2.57	2.33
LM3671MF-1.5TR-ND	1.5V, 600mA Mini Buck DC-DC Converter	SOT-23-5	1378.00/1,000		
LM3671MF-1.6CT-ND	1.6V, 600mA Mini Buck DC-DC Converter	SOT-23-5	3.33	2.57	2.33
LM3671MF-1.6TR-ND	1.6V, 600mA Mini Buck DC-DC Converter	SOT-23-5	1378.00/1,000		
LM3671MF-1.8CT-ND	1.8V, 600mA Mini Buck DC-DC Converter	SOT-23-5	3.33	2.57	2.33

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor DigiReel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3671MF-1.8TR-ND	1.8V, 600mA Mini Buck DC-DC Converter	SOT-23-5	1378.00/1,000		
LM3671MF-1.875CT-ND	1.875V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	3.33	2.57	2.33
LM3671MF-1.875TR-ND	1.875V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	1378.00/1,000		
LM3671MF-2.5CT-ND	2.5V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	3.33	2.57	2.33
LM3671MF-2.5TR-ND	2.5V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	1378.00/1,000		
LM3671MF-3.3CT-ND	3.3V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	3.33	2.57	2.33
LM3671MF-3.3TR-ND	3.3V, 600mA Mini Buck DC-DC Converter*	SOT-23-5	1378.00/1,000		
LM3671TL-1.2CT-ND	1.2V, 600mA Mini Buck DC-DC Converter*	5-µSMD	2.84	2.19	1.99
LM3671TL-1.2TR-ND	1.2V, 600mA Mini Buck DC-DC Converter*	5-µSMD	405.00/250		
LM3671TL-1.5CT-ND	1.5V, 600mA Mini Buck DC-DC Converter*	5-µSMD	2.84	2.19	1.99
LM3671TL-1.5TR-ND	1.5V, 600mA Mini Buck DC-DC Converter*	5-µSMD	405.00/250		
LM3671TL-1.8CT-ND	1.8V, 600mA Mini Buck DC-DC Converter*	5-µSMD	2.84	2.19	1.99
LM3671TL-1.8TR-ND	1.8V, 600mA Mini Buck DC-DC Converter*	5-µSMD	405.00/250		
LM3671TL-1.875CT-ND	1.875V, 600mA Mini Buck DC-DC Converter*	5-µSMD	2.84	2.19	1.99
LM3671TL-1.875TR-ND	1.875V, 600mA Mini Buck DC-DC Converter*	5-µSMD	405.00/250		
LM3673TL-1.8CT-ND	1.8V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	2.84	2.19	1.99
LM3673TL-1.8TR-ND	1.8V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	405.00/250		
LM3673TL-ADJCT-ND	Adj., 2MHz, 350mA Mini Buck DC-DC Converter* ***NEW!***	5-µSMD	2.84	2.19	1.99
LM3673TL-ADJTR-ND	Adj., 2MHz, 350mA Mini Buck DC-DC Converter* ***NEW!***	5-µSMD	405.00/250		
LM3674MF-1.2CT-ND	1.2V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	2.80	2.16	1.96
LM3674MF-1.2TR-ND	1.2V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	1160.00/1,000		
LM3674MF-1.8CT-ND	1.8V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	2.80	2.16	1.96
LM3674MF-1.8TR-ND	1.8V, 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	1160.00/1,000		
LM3674MF-ADJCT-ND	Adj., 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	2.80	2.16	1.96
LM3674MF-ADJTR-ND	Adj., 2MHz, 600mA Mini Buck DC-DC Converter* ***NEW!***	SOT-23-5	1160.00/1,000		
LM3677LEE-1.2CT-ND	1.2V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.15	2.58	2.31
LM3677LEE-1.2TR-ND	1.2V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	485.75/250		
LM3677LEE-1.5CT-ND	1.5V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.15	2.58	2.31
LM3677LEE-1.5TR-ND	1.5V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	485.75/250		
LM3677LEE-1.8CT-ND	1.8V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.15	2.58	2.31
LM3677LEE-1.8TR-ND	1.8V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	485.75/250		
LM3677LEE-1.82CT-ND	1.82V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	3.15	2.58	2.31
LM3677LEE-1.82TR-ND	1.82V, 600mA Mini Buck DC-DC Converter* ***NEW!***	6-LLP	485.75/250		
LM3677TL-1.2CT-ND	1.2V, 600mA Mini Buck DC-DC Converter*	5-µSMD	2.94	2.37	2.16
LM3677TL-1.2TR-ND	1.2V, 600mA Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-1.3CT-ND	1.3V, Mini Buck DC-DC Converter*	5-µSMD	3.15	2.58	2.31
LM3677TL-1.3TR-ND	1.3V, Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-1.5CT-ND	1.5V, Mini Buck DC-DC Converter*	5-µSMD	3.15	2.58	2.31
LM3677TL-1.5TR-ND	1.5V, Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	3.15	2.58	2.31
LM3677TL-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-1.82CT-ND	1.82V, Mini Buck DC-DC Converter* ***NEW!***	5-µSMD	3.15	2.58	2.31
LM3677TL-1.82TR-ND	1.82V, Mini Buck DC-DC Converter* ***NEW!***	5-µSMD	485.75/250		
LM3677TL-1.875CT-ND	Adj., 600mA Mini Buck DC-DC Converter*	5-µSMD	3.15	2.58	2.31
LM3677TL-1.875TR-ND	Adj., 600mA Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-2.5CT-ND	2.5V, Mini Buck DC-DC Converter*	5-µSMD	3.15	2.58	2.31
LM3677TL-2.5TR-ND	2.5V, Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3677TL-ADJCT-ND	Adj., 600mA Mini Buck DC-DC Converter*	5-µSMD	2.94	2.37	2.16
LM3677TL-ADJTR-ND	Adj., 600mA Mini Buck DC-DC Converter*	5-µSMD	485.75/250		
LM3678SD-1.2CT-ND	1.2V, 1.5A High Perf. Mini Buck DC-DC Converter*	10-LLP	4.86	3.97	3.57
LM3678SD-1.2TR-ND	1.2V, 1.5A High Perf. Mini Buck DC-DC Converter*	10-LLP	2268.00/1,000		
LM3678SDE-1.2CT-ND	1.2V, 1.5A High Perf. Mini Buck DC-DC Converter*	10-LLP	4.86	3.97	3.57
LM3678SDE-1.2TR-ND	1.2V, 1.5A High Perf. Mini Buck DC-DC Converter*	10-LLP	749.25/250		
LM3679TL-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	2.99	2.31	2.10
LM3679TL-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	748.00/500		
LM3679UR-1.2CT-ND	1.2V, 3MHz, 350mA Mini Buck DC-DC Converter*	5-µSMD	2.99	2.31	2.10
LM3679UR-1.2TR-ND	1.2V, 3MHz, 350mA Mini Buck DC-DC Converter*	5-µSMD	748.00/500		
LM3679UR-1.5CT-ND	1.5V, 3MHz, 350mA Mini Buck DC-DC Converter*	5-µSMD	2.99	2.31	2.10
LM3679UR-1.5TR-ND	1.5V, 3MHz, 350mA Mini Buck DC-DC Converter*	5-µSMD	748.00/500		
LM3679UR-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	2.99	2.31	2.10
LM3679UR-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	5-µSMD	748.00/500		
LM3687TL-1812CT-ND	750mA, Mini Buck DC-DC Converter* ***NEW!***	9-µSMD	2.50	1.93	1.75
LM3687TL-1812TR-ND	750mA, Mini Buck DC-DC Converter* ***NEW!***	9-µSMD	356.50/250		
LM3691TL-0.75CT-ND	0.75V, 1A Mini Buck DC-DC Converter*	6-µSMD	4.56	3.73	3.35
LM3691TL-0.75TR-ND	0.75V, 1A Mini Buck DC-DC Converter*	6-µSMD	703.00/250		
LM3691TL-1.2CT-ND	1.2V, 1A Mini Buck DC-DC Converter*	6-µSMD	4.56	3.73	3.35
LM3691TL-1.2TR-ND	1.2V, 1A Mini Buck DC-DC Converter*	6-µSMD	703.00/250		
LM3691TL-1.5CT-ND	1.5V, 1A Mini Buck DC-DC Converter*	6-µSMD	4.56	3.73	3.35
LM3691TL-1.5TR-ND	1.5V, 1A Mini Buck DC-DC Converter*	6-µSMD	703.00/250		
LM3691TL-1.8CT-ND	1.8V, 1A Mini Buck DC-DC Converter*	6-µSMD	4.56	3.73	3.35
LM3691TL-1.8TR-ND	1.8V, 1A Mini Buck DC-DC Converter*	6-µSMD	703.00/250		
LM3691TL-2.5CT-ND	2.5V, 1A Mini Buck DC-DC Converter* ***NEW!***	6-µSMD	4.56	3.73	3.35
LM3691TL-2.5TR-ND	2.5V, 1A Mini Buck DC-DC Converter* ***NEW!***	6-µSMD	703.00/250		
LM3743MM-1000CT-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	3.49	2.70	2.45
LM3743MM-1000TR-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	1447.00/1,000		
LM3743MM-300CT-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	3.49	2.70	2.45
LM3743MM-300TR-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	1447.00/1,000		
LM3753SQCT-ND	300A, Adjustable Synchronous Buck Controller* ***NEW!***	32-LLP	7.39	6.14	5.58
LM3753SQTR-ND	300A, Adjustable Synchronous Buck Controller* ***NEW!***	32-LLP	3767.00/1,000		
LM3754SQCT-ND	300A, Adjustable Synchronous Buck Controller* ***NEW!***	32-LLP	7.39	6.14	5.58
LM3754SQTR-ND	300A, Adjustable Synchronous Buck Controller* ***NEW!***	32-LLP	3767.00/1,000		
LM4510SDCT-ND	Sync. Step-Up DC/DC Conv. True Shutdown Isolation*	10-LLP	5.13	4.19	3.77
LM4510SDTR-ND	Sync. Step-Up DC/DC Conv. True Shutdown Isolation*	10-LLP	2394.00/1,000		
LM5022MMCT-ND	Low Side Controller for Boost and SEPIC*	10-MSOP	3.27	2.68	2.40
LM5022MMTR-ND	Low Side Controller for Boost and SEPIC*	10-MSOP	1526.00/1,000		
LM5085MMECT-ND	75V, PFET Buck Switching Controller*	8-MSOP	3.09	2.39	2.17
LM5085MMETR-ND	75V, PFET Buck Switching Controller*	8-MSOP	442.00/250		
LM5085MYECT-ND	75V, PFET Buck Switching Controller*	8-MSOP-EP	3.09	2.39	2.17
LM5085MYETR-ND	75V, PFET Buck Switching Controller*	8-MSOP-EP	442.00/250		
LM5085QMYECT-ND	75V, PFET Buck Switching Controller* ***NEW!***	8-MSOP-EP	3.30	2.70	2.42
LM5085QMYETR-ND	75V, PFET Buck Switching Controller* ***NEW!***	8-MSOP-EP	508.75/250		
LM5085SDECT-ND	75V, PFET Buck Switching Controller*	8-LLP	3.16	2.44	2.21
LM5085SDETR-ND	75V, PFET Buck Switching Controller*	8-LLP	451.00/250		
LM5088MH-1-ND	75V Non-Sync. Buck Controller*	16-TSSOP	4.26	3.42	3.12
LM5088MH-2-ND	75V Non-Sync. Buck Controller*	16-TSSOP	4.26	3.42	3.12
LM5116MH-ND	Wide Range Synchronous Buck Controller*	20-TSSOP	6.78	5.45	4.97
LM5118MH-ND	Wide Range Synchronous Buck Controller*	20-TSSOP-EP	6.65	5.46	4.93
LM5118Q1MH-ND	Wide Voltage Range Buck-Boost Controller* ***NEW!***	20-TSSOP-EP	7.95	6.52	5.89
LM5118EVAL-ND	Evaluation Board for LM5118 ***NEW!***	—	79.14	—	—
LM5642MH-ND	High Voltage, Dual Sync. Buck Converter*	20-eTSSOP	4.93	3.96	3.61
LM5642MTC-ND	High Voltage, Dual Sync. Buck Converter*	28-TSSOP	4.93	3.96	3.61
LM5642XMH-ND	High Voltage, Dual Sync. Buck Converter*	28-eTSSOP	5.07	4.08	3.72
LM5642XMT-ND	High Voltage, Dual Sync. Buck Converter*	28-TSSOP	5.07	4.08	3.72
LM20124MH-ND	4A, 1MHz Synchronous Buck Regulator*	16-eTSSOP	5.77	4.64	4.23
LM20125MH-ND	5A, 500kHz Synchronous Buck Regulator*	16-eTSSOP	6.27	5.04	4.60
LM20125EVAL-ND	Evaluation Board for LM20125	—	45.22	—	—
LM20133MH-ND	3A, Synchronous Buck Regulator with Input Sync.*	16-eTSSOP	5.29	4.26	3.88

National Semiconductor DigiReel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM20133EVAL-ND	Evaluation Board for LM20133	—	45.22	—	—
LM20134MH-ND	4A, Synchronous Buck Regulator with Input Sync.*	16-eTSSOP	5.77	4.64	4.23
LM20134EVAL-ND	Evaluation Board for LM20134	—	45.22	—	—
LM20136MH-ND	6A Synchronous Buck Regulator*	16-eTSSOP	6.78	5.45	4.97
LM20143MH-ND	3A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	5.29	4.26	3.88
LM20143EVAL-ND	Evaluation Board for LM20143	—	45.22	—	—
LM20144MH-ND	4A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	5.77	4.64	4.23
LM20144EVAL-ND	Evaluation Board for LM20144	—	45.22	—	—
LM20145MH-ND	5A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	6.27	5.04	4.60
LM20145EVAL-ND	Evaluation Board for LM20145	—	45.22	—	—
LM20146MH-ND	6A Synchronous Buck Regulator*	16-eTSSOP	6.78	5.45	4.97
LM20154MH-ND	4A, 1MHz Sync. Buck Regulator with Sync. Output*	16-eTSSOP	5.77	4.64	4.23
LM20154EVAL-ND	Evaluation Board for LM20154	—	45.22	—	—
LM20242MH-ND	36V, 2A, Synchronous Buck Regulator*	20-eTSSOP	5.85	4.71	4.29
LM20242EVAL-ND	Evaluation Board for LM20242	—	45.22	—	—
LM20323MH-ND	36V, 3A 500kHz Sync. Buck Reg.*	20-TSSOP	6.13	4.93	4.49
LM20333MH-ND	36V, 3A Sync. Buck Regulator*	20-TSSOP	6.13	4.93	4.49
LM20343MH-ND	36V, 3A Adj. Freq. Sync. Buck Regulator*	20-TSSOP	6.13	4.93	4.49
LM25085MMCT-ND	42V PFET Switching Regulator*	8-MSOP	2.56	1.98	1.80
LM25085MMTR-ND	42V PFET Switching Regulator*	8-MSOP	1061.00/1,000		
LM25088MH-1-ND	Wide Input Range Non-Sync. Buck Controller*	16-TSSOP	3.72	3.00	2.73
LM25088MH-2-ND	Wide Input Range Non-Sync. Buck Controller*	16-TSSOP	3.72	3.00	2.73
LM26001BMH-ND	1.5A Switching Regulator with Sleep Mode*	16-eTSSOP	6.02	4.84	4.41
LM26001MXA-ND	1.5A Switching Regulator*	16-TSSOP	6.43	5.27	4.76
LM26001QMXA-ND	1.5A Switching Regulator with Sleep Mode* ***NEW!***	16-TSSOP	6.78	5.56	5.02
LM26003MH/NOPB-ND	3A Switching Regulator with Sleep Mode*	20-TSSOP	7.95	6.52	5.89
LM26003QMH-ND	3A Switching Regulator with Sleep Mode* ***NEW!***	20-eTSSOP	7.95	6.52	5.89
LM26420XMH-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	20-eTSSOP	6.02	4.84	4.41
LM26420XSQCT-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	16-LLP	6.45	5.27	4.73
LM26420XSQTR-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	16-LLP	3010.00/1,000		
LM26420YMH-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	20-eTSSOP	5.71	4.59	4.19
LM26420YSQCT-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	16-LLP	6.12	5.00	4.49
LM26420YSQTR-ND	2A Dual Sync. Buck DC/DC Regulator* ***NEW!***	16-LLP	2856.00/1,000		
SIMPLE SWITCHER®					
LM2574HVM-ADJ-ND	0.5A Buck Voltage Regulator*	14-SOIC	4.06	3.27	2.98
LM2574HVM-3.3-ND	3.3V, 0.5A Buck Voltage Regulator*	14-SOIC	4.06	3.27	2.98
LM2574HVM-5.0-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	4.06	3.27	2.98
LM2574HVM-12-ND	12V, 0.5A Buck Volt. Regulator*	14-SOIC	4.06	3.27	2.98
LM2574HVN-ADJ-ND	Adjustable Voltage 500mA Buck Switch Regulator*	8-Dip	5.43	4.37	3.98
LM2574HVN-5.0-ND	5V, 500mA Buck Switch Regulator*	8-Dip	5.43	4.37	3.98
LM2574HVN-12-ND	12V, 500mA Buck Switch Regulator*	8-Dip	5.43	4.37	3.98
LM2574M-3.3-ND	3.3V, 500mA Buck Switch Regulator*	14-SOIC	2.54	2.05	1.85
LM2574M-5.0-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	2.54	2.05	1.85
LM2574MX-5.0TR-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	1189.00/1,000		
LM2574M-12-ND	12V, 500mA Buck Switch Regulator*	14-SOIC	2.54	2.05	1.85
LM2574MX-ADJTR-ND	Adjustable 500mA Buck Switch Regulator	14-SOIC	1189.00/1,000		
LM2574N-ADJ-ND	Adjustable 500mA Buck Switch Regulator*	8-Dip	2.60	2.10	1.89
LM2574N-5.0-ND	5V, 500mA Buck Switch Regulator*	8-Dip	2.60	2.10	1.89
LM2574N-12-ND	12V, 500mA Buck Switch Regulator*	8-Dip	2.60	2.10	1.89
LM2575HVN-5.0-ND	5V, 1A Buck Switch Regulator*	16-Dip	5.01	4.03	3.67
LM2575HVS-ADJ-ND	Adj., 1A Buck Voltage Regulator*	TO-263-5	5.01	4.03	3.67
LM2575HVS-3.3-ND	3.3V, 1A Buck Voltage Regulator*	TO-263-5	5.01	4.03	3.67
LM2575HVS-5.0-ND	5V, 1A Buck Voltage Regulator*	TO-263-5	5.01	4.03	3.67
LM2575HVS-12-ND	12V, 1A Buck Voltage Regulator*	TO-263-5	5.01	4.03	3.67
LM2575HVS-15-ND	15V, 1A Buck Voltage Regulator*	TO-263-5	5.01	4.03	3.67
LM2575HVT-ADJ-ND	Adjustable 1A Buck Switch Regulator*	TO-220	5.82	4.68	4.27
LM2575HVT-5.0-ND	5V, 1A Buck Switch Regulator, High Voltage*	TO-220	5.82	4.68	4.27
LM2575HVT-12-ND	12V, 1A Buck Switch Regulator*	TO-220	5.82	4.68	4.27
LM2575HVT-15-ND	15V, 1A Buck Switch Regulator*	TO-220	5.82	4.68	4.27
LM2575M-5.0-ND	5V, 1A Buck Switch Regulator*	24-SOIC	2.86	2.30	2.10
LM2575N-ADJ-ND	Adjustable 1A Buck Switch Regulator*	16-Dip	3.56	2.86	2.61
LM2575N-5.0-ND	5V, 1A Buck Switch Regulator*	16-Dip	3.56	2.86	2.61
LM2575S-ADJ-ND	Adj., 1A Buck Voltage Regulator*	TO-263-5	2.97	2.39	2.18
LM2575S-3.3-ND	3.3V, 1A Buck Voltage Reg.*	TO-263-5	2.97	2.39	2.18
LM2575S-5.0-ND	5V, 1A Buck Voltage Regulator*	TO-263-5	2.97	2.39	2.18
LM2575S-12-ND	12V, 1A Buck Voltage Regulator*	TO-263-5	2.97	2.39	2.18
LM2575T-ADJNS-ND	Adjustable 1A Buck Switch Regulator*	TO-220	3.01	2.43	2.19
LM2575T-3.3-ND	3.3V, 1A Buck Switch Regulator*	TO-220	3.01	2.43	2.19
LM2575T-5.0-ND	5V, 1A Buck Switch Regulator*	TO-220	3.01	2.43	2.19
LM2575T-12-ND	12V, 1A Buck Switch Regulator*	TO-220	3.01	2.43	2.19
LM2575T-15-ND	15V, 1A Buck Switch Regulator*	TO-220	3.01	2.43	2.19
LM2576HVS-ADJ-ND	Adjustable 3A Buck Switch Regulator*	TO-263	6.55	5.27	4.80
LM2576HVS-3.3-ND	3.3V, 3A Buck Voltage Reg.*	TO-263-5	6.55	5.27	4.80
LM2576HVS-5.0-ND	5V, 3A Buck Voltage Regulator*	TO-263-5	6.55	5.27	4.80
LM2576HVT-ADJ-ND	Adjustable 3A Buck Switch Regulator*	TO-220-5	6.55	5.27	4.80
LM2576HVT-5.0-ND	5V, 3A Buck Regulator High Voltage*	TO-220	6.55	5.27	4.80
LM2576HVT-12-ND	12V, 3A Buck Regulator High Voltage*	TO-220	6.55	5.27	4.80
LM2576HVT-15-ND	15V, 3A Buck Regulator High Voltage*	TO-220	6.55	5.27	4.80
LM2576S-ADJ-ND	Adj., 3A Buck Voltage Regulator*	TO-263-5	3.44	2.77	2.53
LM2576S-3.3-ND	3.3V, 3A Buck Voltage Reg.*	TO-263-5	3.44	2.77	2.53
LM2576S-5.0-ND	5V, 3A Buck Voltage Regulator*	TO-263-5	3.44	2.77	2.53
LM2576S-12-ND	12V, 3A Buck Voltage Regulator*	TO-263-5	3.44	2.77	2.53
LM2576T-ADJNS-ND	Adjustable 3A Buck Voltage Regulator*	TO-220-5	3.44	2.77	2.53
LM2576T-3.3NS-ND	3.3V, 3A Buck Voltage Reg.*	TO-220-5	3.44	2.77	2.53
LM2576T-5.0-ND	5V, 3A Buck Switch Regulator*	TO-220	3.44	2.77	2.53
LM2576T-12-ND	12V, 3A Buck Simple Switch Regulator*	TO-220	3.44	2.77	2.53
LM2576T-15-ND	15V, 3A Buck Voltage Regulator*	TO-220-5	3.44	2.77	2.53
LM2577M-ADJ-ND	Adjustable 3A Step-Up Switch Regulator*	24-SOIC	6.63	5.44	4.91
LM2577N-ADJ-ND	Adjustable 3A Step-Up Switch Regulator*	16-Dip	6.63	5.44	4.91
LM2577S-ADJ-ND	Adj. Step-Up Voltage Regulator*	TO-263-5	6.63	5.44	4.91
LM2577S-12-ND	12V, Step-Up Voltage Regulator*	TO-263-5	6.63	5.44	4.91
LM2577S-15-ND	15V, Step-Up Voltage Regulator*	TO-263-5	6.63	5.44	4.91
LM2577T-ADJ-ND	Adjustable 3A Step Up Switch Voltage Regulator*	TO-220-5	6.63	5.44	4.91
LM2577T-12-ND	12V, 3A Step-Up Switch Regulator*	TO-220	6.63	5.44	4.91
LM2577T-15-ND	15V, 3A Step-Up Switch Regulator*	TO-220	6.63	5.44	4.91
LM2578AM-ND	750mA Switching Regulator*	8-SOIC	3.39	2.73	2.49
LM2578AN-ND	750mA Switching Regulator*	8-Dip	3.39	2.73	2.49
LM2585S-ADJ-ND	Adj. 3A Flyback Regulator*	TO-263-5	7.53	6.18	5.57
LM2585S-3.3-ND	3.3V, 3A Flyback Regulator	TO-263-5	7.53	6.18	5.57
LM2585S-5.0-ND	5V, 3A Flyback Regulator*	TO-263-5	7.53	6.18	5.57
LM2585S-12-ND	12V, 3A Flyback Regulator*	TO-263-5	7.53	6.18	5.57
LM2585T-ADJ-ND	Adj. 3A Flyback Voltage Reg.*	TO-220-5	7.53	6.18	5.57
LM2585T-3.3-ND	3.3V, 3A Flyback Regulator	TO-220-5	7.53	6.18	5.57
LM2585T-5.0-ND	5V, 3A Flyback Regulator*	TO-220-5	7.53	6.18	5.57
LM2585T-12-ND	12V, 3A Flyback Regulator*	TO-220-5	7.53	6.18	5.57
LM2586S-ADJ-ND	Adj. 3A Flyback Reg. with Shutdown*	TO-263-7	7.78	6.38	5.76

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2586S-3.3-ND	3.3V 3A Flyback Reg. with Shutdown	TO-263-7	7.78	6.38	5.76
LM2586S-5.0-ND	5V, 3A Flyback Reg. with Shutdown*	TO-263-7	7.78	6.38	5.76
LM2586S-12-ND	12V, 3A Flyback Reg. with Shutdown*	TO-263-7	7.78	6.38	5.76
LM2586T-ADJ-ND	Adj. 3A Flyback Reg. with Shutdown*	TO-220-7	7.78	6.38	5.76
LM2586T-3.3-ND	3.3V, 3A Flyback Reg. with Shutdown	TO-220-7	7.78	6.38	5.76
LM2586T-5.0-ND	5V, 3A Flyback Reg. with Shutdown	TO-220-7	7.78	6.38	5.76
LM2587EVAL-ND	Evaluation Board for LM2587	—	38.84	—	—
LM2587S-ADJ-ND	Adj. 5A Flyback Regulator*	TO-263-5	9.90	8.12	7.33
LM2587S-3.3-ND	3.3V, 5A Flyback Regulator	TO-263-5	9.90	8.12	7.33
LM2587S-5.0-ND	5V, 5A Flyback Regulator*	TO-263-5	9.90	8.12	7.33
LM2587T-ADJ-ND	Adj. 5A Flyback Regulator*	TO-220-5	9.90	8.12	7.33
LM2587T-3.3-ND	3.3V, 5A Flyback Regulator	TO-220-5	9.90	8.12	7.33
LM2587T-5.0-ND	5V, 5A Flyback Regulator*	TO-220-5	9.90	8.12	7.33
LM2587T-12-ND	12V, 5A Flyback Regulator*	TO-220-5	9.90	8.12	7.33
LM2588S-ADJ-ND	Adj. Volt. 5A, Flyback Regulator*	TO-263	10.70	8.78	7.92
LM2588S-3.3-ND	3.3V, 5A Flyback Regulator*	TO-263-7	10.70	8.78	7.92
LM2588S-5.0-ND	5V, 5A Flyback Regulator*	TO-263-7	10.70	8.78	7.92
LM2588S-12-ND	12V, 5A Flyback Regulator*	TO-263	10.70	8.78	7.92
LM2588T-ADJ-ND	Adj. 5A Flyback Regulator*	TO-220-7	10.70	8.78	7.92
LM2588T-5.0-ND	5V, 5A Flyback Regulator*	TO-220-7	10.70	8.78	7.92
LM2590HVS-ADJ-ND	Adj., Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-7	6.02	4.84	4.41
LM2590HVS-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-7	6.02	4.84	4.41
LM2590HVS-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-7	6.02	4.84	4.41
LM2590HVT-ADJ-ND	Adj., Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-7	6.02	4.84	4.41
LM2591HVS-ADJ-ND	Adj., Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	5.71	4.59	4.19
LM2591HVS-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	5.71	4.59	4.19
LM2591HVS-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	5.71	4.59	4.19
LM2591HVT-ADJ-ND	Adj., Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	5.71	4.59	4.19
LM2591HVT-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	5.71	4.59	4.19
LM2591HVT-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	5.71	4.59	4.19
LM2592HVS-ADJ-ND	Adj. Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-263-5	6.83	5.49	5.01
LM2592HVS-3.3-ND	3.3V, Power Converter, 150kHz, 2A, Buck Voltage Reg.	TO-263-5	6.83	5.49	5.01
LM2592HVS-5.0-ND	5V, Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-263-5	6.83	5.49	5.01
LM2592HVT-ADJ-ND	Adj. Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-220-5	6.83	5.49	5.01
LM2592HVT-3.3-ND	3.3V, Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-220-5	6.83	5.49	5.01
LM2592HVT-5.0-ND	5V, Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-220-5	6.83	5.49	5.01
LM2593HVS-ADJ-ND	Adj. Power Converter, 150kHz 2A, Buck Voltage Reg.*	TO-263-7	6.40	5.25	4.74
LM2593HVS-3.3-ND	3.3V, Power Converter, 150kHz, 2A, Buck Voltage Reg.	TO-263-7	6.40	5.25	4.74
LM2593HVS-5.0-ND	5V, Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-263-7	6.40	5.25	4.74
LM2593HVT-ADJ-ND	Adj. Power Converter, 150kHz, 2A, Buck Voltage Reg.*	TO-220-7	6.40	5.25	4.74
LM2593HVT-3.3-ND	3.3V, Power Converter, 150kHz, 2A, Buck Voltage Reg.	TO-220-7	6.40	5.25	4.74
LM2593HVT-5.0-ND	5V, Power Converter, 150kHz, 2A, Buck Voltage Reg.	TO-220-7	6.40	5.25	4.74
LM2594HVM-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Volt. Reg.*	8-SOIC	5.18	4.17	3.80
LM2594HVM-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Volt. Reg.*	8-SOIC	5.18	4.17	3.80
LM2594HVM-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	5.18	4.17	3.80
LM2594HVM-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	5.18	4.17	3.80
LM2594HVN-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	5.18	4.17	3.80
LM2594HVN-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	5.18	4.17	3.80
LM2594HVN-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	5.18	4.17	3.80
LM2594HVN-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	5.18	4.17	3.80
LM2594M-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	3.42	2.75	2.51
LM2594M-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	3.42	2.75	2.51
LM2594M-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	3.42	2.75	2.51
LM2594M-12-ND	12V, Power Converter, 150kHz, Buck Voltage Regulator*	8-SOIC	3.42	2.75	2.51
LM2594MX-5.0TR-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-SOIC	4057.50/2,500		
LM2594N-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	3.42	2.75	2.51
LM2594N-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	3.42	2.75	2.51
LM2594N-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	3.42	2.75	2.51
LM2594N-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	3.42	2.75	2.51
LM2595S-ADJ-ND	Adj., Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	TO-263-5	4.54	3.65	3.33
LM2595S-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	4.54	3.65	3.33
LM2595S-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	4.54	3.65	3.33
LM2595S-12-ND	12V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-5	4.54	3.65	3.33
LM2595T-ADJ-ND	Adj., Power Converter, 150kHz, 1A, Buck Voltage Reg.*.	TO-220	4.54	3.65	3.33
LM2595T-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	4.54	3.65	3.33
LM2595T-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	4.54	3.65	3.33
LM2595T-12-ND	12V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-220-5	4.54	3.65	3.33
LM2596S-ADJ-ND	Adj. Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-5	5.18	4.17	3.80
LM2596S-3.3-ND	3.3V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-5	5.18	4.17	3.80
LM2596S-5.0-ND	5V, Power Converter, 150kHz 3A, Buck Voltage Reg.*	TO-263	5.18	4.17	3.80
LM2596S-12-ND	12V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-5	5.18	4.17	3.80
LM2596SX-5.0TR-ND	5V, Power Converter 150kHz 3A Buck Voltage Regulator*	TO-263	1535.50/500		
LM2596T-ADJ-ND	Adj. Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-5	5.18	4.17	3.80
LM2596T-3.3-ND	3.3V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-5	5.18	4.17	3.80
LM2596T-5.0-ND	5V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-5	5.18	4.17	3.80
LM2596T-12-ND	12V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-5	5.18	4.17	3.80
LM2597HVM-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	5.32	4.28	3.90
LM2597HVM-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	5.32	4.28	3.90
LM2597HVM-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	5.32	4.28	3.90
LM2597HVM-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-SOIC	5.32	4.28	3.90
LM2597HVN-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	5.32	4.28	3.90
LM2597HVN-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	5.32	4.28	3.90
LM2597HVN-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	5.32	4.28	3.90
LM2597M-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	4.23	3.40	3.10
LM2597M-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	4.23	3.40	3.10
LM2597M-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	4.23	3.40	3.10
LM2597M-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-SOIC	4.23	3.40	3.10
LM2597N-ADJ-ND	Adj. Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	4.23	3.40	3.10
LM2597N-3.3-ND	3.3V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.*	8-Dip	4.23	3.40	3.10
LM2597N-5.0-ND	5V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	4.23	3.40	3.10
LM2597N-12-ND	12V, Power Converter, 150kHz, 0.5A, Buck Voltage Reg.	8-Dip	4.23	3.40	3.10
LM2598S-ADJ-ND	Adj. Power Converter, 150kHz 1A, Buck Voltage Reg.*	TO-263-7	4.98	4.01	3.65
LM2598S-3.3-ND	3.3V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263-7	4.98	4.01	3.65
LM2598S-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.*	TO-263	4.98	4.01	3.65
LM2598S-12-ND	12V, Power Converter, 150kHz, 1A, Buck Voltage Reg.	TO-263-7	4.98	4.01	3.65
LM2598T-ADJ-ND	Adj. Power Converter, 150kHz, 1A,Buck Voltage Reg.	TO-220-7	4.98	4.01	3.65
LM2598T-3.3-ND	3.3V, Power Converter, 150kHz, 1A,Buck Voltage Reg.	TO-220-7	4.98	4.01	3.65
LM2598T-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Reg.	TO-220-7	4.98	4.01	3.65
LM2598T-12-ND	12V, Power Converter, 150kHz, 1A, Buck Voltage Reg.	TO-220-7	4.98	4.01	3.65
LM2599S-ADJ-ND	Adj. Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-7	5.74	4.62	4.21
LM2599S-3.3-ND	3.3V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-7	5.74	4.62	4.21
LM2599S-5.0-ND	5V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-7	5.74	4.62	4.21
LM2599S-12-ND	12V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-263-7	5.74	4.62	4.21
LM2599T-ADJ-ND	Adj. Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-7	5.74	4.62	4.21
LM2599T-3.3-ND	3.3V, Power Converter, 150kHz 3A, Buck Voltage Reg.*	TO-220-7	5.74	4.62	4.21
LM2599T-5.0-ND	5V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-7	5.74	4.62	4.21
LM2599T-12-ND	12V, Power Converter, 150kHz, 3A, Buck Voltage Reg.*	TO-220-7	5.74	4.62	4.21
LM2670S-ADJ-ND	Adj. High Efficiency 3A Buck Regulator with Sync.*	TO-263-7	5.26	4.23	3.86
LM2670S-3.3-ND	3.3V, High Efficiency 3A Buck Voltage Reg. with Sync.*	TO-263-7	5.26	4.23	3.86
LM2670S-5.0-ND	5V, High Efficiency 3A Buck Voltage Regulator with Sync.*	TO-263-7	5.26	4.23	3.86
LM2670S-12-ND	12V, High Efficiency 3A Buck Voltage Reg. with Sync.*	TO-263-7	5.26	4.23	3.86
LM2670SD-3.3CT-ND	3.3V, High Efficiency 3A Buck Voltage Reg. with Sync.	14-LLP	5.64	4.61	4.14
LM2670SD-3.3TR-ND	3.3V, High Efficiency 3A Buck Voltage Reg. with Sync.	14-LLP	869.50/250		
LM2670SD-5.0CT-ND	5V, High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	5.64	4.61	4.14
LM2670SD-5.0TR-ND	5V, High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	869.50/250		
LM2670SD-12CT-ND	12V, High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	5.64	4.61	4.14
LM2670SD-12TR-ND	12V, High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	869.50/250		
LM2670SD-ADJCT-ND	Adj., High Efficiency 3A Buck Voltage Reg. with Sync.*	14-LLP	5.64	4.61	4.14
LM2670SD-ADJTR-ND	Adj., High Efficiency 3A Buck Voltage Reg. with Sync.*	14-LLP	869.50/250		
LM2670T-ADJ-ND	Adj. High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	5.26	4.23	3.86
LM2670T-3.3-ND	3.3V, High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	5.26	4.23	3.86
LM2670T-5.0-ND	5V, High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	5.26	4.23	3.86
LM2670T-12-ND	12V, High Efficiency 3A Buck Regulator with Sync.	TO-220-7	5.26	4.23	3.86
LM2671LD-ADJCT-ND	Adj. High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.93	3.21	2.89
LM2671LD-ADJTR-ND	Adj. High Efficiency 500mA Buck Voltage Regulator	16-LLP	1834.00/1,000		
LM2671LD-5.0CT-ND	5V, High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.93	3.21	2.89
LM2671LD-5.0TR-ND	5V, High Efficiency 500mA Buck Voltage Regulator	16-LLP	1834.00/1,000		
LM2671LD-12CT-ND	12V, High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.93	3.21	2.89
LM2671LD-12TR-ND	12V, High Efficiency 500mA Buck Voltage Regulator	16-LLP	1834.00/1,000		
LM2671M-ADJ-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	8-SOIC	3.67	2.95	2.69
LM2671M-3.3-ND	3.3V, Power Converter High Eff. 500mA Buck Voltage Reg.	8-SOIC	3.67	2.95	2.69
LM2671M-5.0-ND	5V, Power Converter High Eff. 500mA Buck Voltage Reg.*	8-SOIC	3.67	2.95	2.69
LM2671M-12-ND	12V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-SOIC	3.67	2.95	2.69
LM2671N-ADJ-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	8-Dip	3.67	2.95	2.69
LM2671N-3.3-ND	3.3V, Power Converter High Eff. 500mA Buck Volt. Reg.	8-Dip	3.67	2.95	2.69
LM2671N-5.0-ND	5V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-Dip	3.67	2.95	2.69
LM2671N-12-ND	12V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-Dip	3.67	2.95	2.69
LM2672LD-ADJCT-ND	Adj. Power Converter High Efficiency 1A Buck Volt. Reg.*	16-LLP	5.01	4.10	3.68
LM2672LD-ADJTR-ND	Adj. Power Converter High Efficiency 1A Buck Volt. Reg.*	16-LLP	2338.00/1,000		
LM2672LD-5.0CT-ND	5V, Power Converter High Efficiency 1A Buck Voltage Reg.	16-LLP	5.01	4.10	3.68
LM2672M-ADJ-ND	Adj. Power Converter High Efficiency 1A Buck Volt. Reg.*	8-SOIC	4.68	3.76	3.43
LM2672M-3.3-ND	3.3V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-SOIC	4.68	3.76	3.43
LM2672M-5.0-ND	5V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-SOIC	4.68	3.76	3.43
LM2672M-12-ND	12V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-SOIC	4.68	3.76	3.43
LM2672N-ADJ-ND	Adj. Power Converter High Efficiency 1A Buck Voltage Reg.	8-Dip	4.68	3.76	3.43
LM2672N-3.3-ND	3.3V, Power Converter High Efficiency 1A Buck Volt. Reg.	8-Dip	4.68	3.76	3.43
LM2672N-5.0-ND	5V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-Dip	4.68	3.76	3.43
LM2672N-12-ND	12V, Power Converter High Efficiency 1A Buck Volt. Reg.	8-Dip	4.68	3.76	3.43
LM2673S-ADJ-ND	Adj. 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	5.26	4.23	3.86
LM2673S-3.3-ND	3.3V, 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	5.26	4.23	3.86
LM2673S-5.0-ND	5V, 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	5.26	4.23	3.86
LM2673S-12-ND	12V, 3A Buck Voltage Regulator with Adj. Current Limit	TO-263-7	5.26	4.23	3.86
LM2673SD-3.3CT-ND	3.3V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	5.64	4.61	4.14
LM2673SD-3.3TR-ND	3.3V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	869.50/250		
LM2673SD-5.0CT-ND	5V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	5.64	4.61	4.14
LM2673SD-5.0TR-ND	5V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	869.50/250		
LM2673SD-12CT-ND	12V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	5.64	4.61	4.14
LM2673SD-12TR-ND	12V, 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	869.50/250		
LM2673SD-ADJCT-ND	Adj., 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	5.64	4.61	4.14
LM2673SD-ADJTR-ND	Adj., 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	869.50/250		
LM2673T-ADJ-ND	Adj. 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	5.26	4.23	3.86
LM2673T-3.3-ND	3.3V, 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	5.26	4.23	3.86
LM2673T-5.0-ND	5V, 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	5.26	4.23	3.86
LM2673T-12-ND	12V, 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	5.26	4.23	3.86
LM2674LD-ADJCT-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	16-LLP	3.72	3.04	2.73
LM2674LD-ADJTR-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	16-LLP	1736.00/1,000		
LM2674LD-3.3CT-ND	3.3V, Power Converter High Eff. 500mA Buck Voltage Reg.	16-LLP	3.72	3.04	2.73
LM2674LD-3.3TR-ND	3.3V, Power Converter High Eff. 500mA Buck Voltage Reg.	16-LLP	1736.00/1,000		
LM2674M-ADJ-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	8-SOIC	3.47	2.79	2.55
LM2674M-3.3-ND	3.3V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-SOIC	3.47	2.79	2.55
LM2674M-5.0-ND	5V, Power Converter High Eff. 500mA Buck Voltage Reg.*	8-SOIC	3.47	2.79	2.55
LM2674M-12-ND	12V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-SOIC	3.47	2.79	2.55
LM2674N-ADJ-ND	Adj. Power Converter High Eff. 500mA Buck Voltage Reg.*	8-Dip	3.47	2.79	2.55
LM2674N-3.3-ND	3.3V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-Dip	3.47	2.79	2.55
LM2674N-5.0-ND	5V, Power Converter High Eff. 500mA Buck Voltage Reg.*	8-Dip	3.47	2.79	2.55
LM2674N-12-ND	12V, Power Converter High Eff. 500mA Buck Volt. Reg.*	8-Dip	3.47	2.79	2.55
LM2675LD-ADJCT-ND	Adj. Power Converter High Efficiency 1A Buck Voltage Reg.	16-LLP	4.80	3.92	3.52
LM2675LD-ADJTR-ND	Adj. Power Converter High Efficiency 1A Buck Voltage Reg.	16-LLP	2240.00/1,000		
LM2675LD-5.0CT-ND	5V, Power Converter High Efficiency 1A Buck Voltage Reg.	16-LLP	4.80	3.92	3.52
LM2675LD-5.0TR-ND	5V, Power Converter High Efficiency 1A Buck Voltage Reg.	16-LLP	2240.00/1,000		
LM2675M-ADJ-ND	Adj. Power Converter High Efficiency 1A Buck Voltage Reg.	8-SOIC	4.48	3.60	3.28
LM2675M-3.3-ND	3.3V, Power Converter High Efficiency 1A Buck Volt. Reg.	8-SOIC	4.48	3.60	3.28
LM2675M-5.0-ND	5V, High-Efficiency Switcher, 1A, Buck Voltage Regulator	8-SOIC	4.48	3.60	3.28
LM2675M-12-ND	12V, Power Converter High Efficiency 1A Buck Volt. Reg.	8-SOIC	4.48	3.60	3.28
LM2675N-ADJ-ND	Adj. Power Converter High Efficiency 1A Buck Volt. Reg.*	8-Dip	4.48	3.60	3.28
LM2675N-3.3-ND	3.3V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-Dip	4.48	3.60	3.28
LM2675N-5.0-ND	5V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-Dip	4.48	3.60	3.28
LM2675N-12-ND	12V, Power Converter High Efficiency 1A Buck Volt. Reg.*	8-Dip	4.48	3.60	3.28
LM2676S-ADJ-ND	Adj. High Efficiency 3A Buck Voltage Regulator*	TO-263-7	5.01	4.03	3.67
LM2676S-3.3-ND	3.3V, High Efficiency 3A Buck Voltage Regulator*	TO-263-7	5.01	4.03	3.67
LM2676S-5.0-ND	5V, High Efficiency 3A Buck Voltage Regulator*	TO-263-7	5.01	4.03	3.67
LM2676S-12-ND	12V, High Efficiency 3A Buck Voltage Regulator*	TO-263-7	5.01	4.03	3.67
LM2676SD-3.3CT-ND	3.3V, High Efficiency 3A Buck Voltage Regulator	14-LLP	5.37	4.39	3.94
LM2676SD-3.3TR-ND	3.3V, High Efficiency 3A Buck Voltage Regulator	14-LLP	828.00/250		
LM2676SD-5.0CT-ND	5V, High Efficiency 3A Buck Voltage Regulator*	14-LLP	5.37	4.39	3.94
LM2676SD-5.0TR-ND	5V, High Efficiency 3A Buck Voltage Regulator*	14-LLP	828.00/250		
LM2676SD-12CT-ND	12V, High Efficiency 3A Buck Voltage Regulator	14-LLP	5.37	4.39	3.94
LM2676SD-12TR-ND	12V, High Efficiency 3A Buck Voltage Regulator	14-LLP	828.00/250		
LM2676SD-ADJCT-ND	Adj., High Efficiency 3A Buck Voltage Regulator*	14-LLP	5.37	4.39	3.94
LM2676SD-ADJTR-ND	Adj., High Efficiency 3A Buck Voltage Regulator*	14-LLP	828.00/250		
LM2676T-ADJ-ND	Adj. High Efficiency 3A Buck Regulator*	TO-220-7	5.01	4.03	3.67
LM2676T-3.3-ND	3.3V, High Efficiency 3A Buck Voltage Regulator	TO-220-7	5.01	4.03	3.67
LM2676T-5.0-ND	5V, High Efficiency 3A Buck Voltage Regulator*	TO-220-7	5.01	4.03	3.67

* RoHS Compliant

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National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2676T-12-ND	12V, High Efficiency 3A Buck Voltage Regulator*	TO-220-7	5.01	4.03	3.67
LM2677S-ADJ-ND	Adj. High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-263-7	7.80	6.40	5.78
LM2677S-3.3-ND	3.3V, High Efficiency 5A Buck Voltage Reg. w/Sync.*	TO-263-7	7.80	6.40	5.78
LM2677S-5.0-ND	5V, High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-263-7	7.80	6.40	5.78
LM2677S-12-ND	12V, High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-263-7	7.80	6.40	5.78
LM2677SD-5.0CT-ND	5V, High Efficiency 5A Buck Voltage Regulator w/Sync.	14-LLP	8.27	6.87	6.24
LM2677SD-5.0TR-ND	5V, High Efficiency 5A Buck Voltage Regulator w/Sync.	14-LLP	1326.00/250		
LM2677SD-12CT-ND	12V, High Efficiency 5A Buck Volt. Regulator w/Sync.	14-LLP	8.27	6.87	6.24
LM2677SD-12TR-ND	12V, High Efficiency 5A Buck Volt. Regulator w/Sync.	14-LLP	1326.00/250		
LM2677SD-ADJCT-ND	Adj., High Efficiency 5A Buck Voltage Reg. with Sync.*	14-LLP	8.27	6.87	6.24
LM2677SD-ADJTR-ND	Adj., High Efficiency 5A Buck Voltage Reg. with Sync.*	14-LLP	1326.00/250		
LM2677T-ADJ-ND	Adj., High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-220-7	7.80	6.40	5.78
LM2677T-3.3-ND	3.3V, High Efficiency 5A Buck Voltage Reg. with Sync.	TO-220-7	7.80	6.40	5.78
LM2677T-5.0-ND	5V, High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-220-7	7.80	6.40	5.78
LM2677T-12-ND	12V, High Efficiency 5A Buck Voltage Reg. with Sync.*	TO-220-7	7.80	6.40	5.78
LM2678S-ADJ-ND	Adj. High Efficiency 5A Buck Voltage Regulator*	TO-263-7	7.43	6.09	5.50
LM2678S-3.3-ND	3.3V, High Efficiency 5A Buck Voltage Regulator*	TO-263-7	7.43	6.09	5.50
LM2678S-5.0-ND	5V, High Efficiency 5A Buck Voltage Regulator*	TO-263-7	7.43	6.09	5.50
LM2678S-12-ND	12V, High Efficiency 5A Buck Voltage Regulator*	TO-263-7	7.43	6.09	5.50
LM2678SD-3.3CT-ND	3.3V, High Efficiency 5A Buck Voltage Regulator	14-LLP	7.87	6.54	5.94
LM2678SD-3.3TR-ND	3.3V, High Efficiency 5A Buck Voltage Regulator	14-LLP	1262.25/250		
LM2678SD-5.0CT-ND	5V, High Efficiency 5A Buck Voltage Regulator*	14-LLP	7.87	6.54	5.94
LM2678SD-5.0TR-ND	5V, High Efficiency 5A Buck Voltage Regulator*	14-LLP	1262.25/250		
LM2678SD-12CT-ND	12V, High Efficiency 5A Buck Voltage Regulator	14-LLP	7.87	6.54	5.94
LM2678SD-12TR-ND	12V, High Efficiency 5A Buck Voltage Regulator	14-LLP	1262.25/250		
LM2678SD-ADJCT-ND	Adj., High Efficiency 5A Buck Voltage Regulator*	14-LLP	7.87	6.54	5.94
LM2678SD-ADJTR-ND	Adj., High Efficiency 5A Buck Voltage Regulator*	14-LLP	1262.25/250		
LM2678T-ADJ-ND	Adj., High Efficiency 5A Buck Voltage Regulator*	TO-220-7	7.43	6.09	5.50
LM2678T-3.3-ND	3.3V, High Efficiency 5A Buck Voltage Regulator*	TO-220-7	7.43	6.09	5.50
LM2678T-5.0-ND	5V, High Efficiency 5A Buck Voltage Regulator*	TO-220-7	7.43	6.09	5.50
LM2678T-12-ND	12V, High Efficiency 5A Buck Voltage Regulator	TO-220-7	7.43	6.09	5.50
LM2679S-ADJ-ND	Adj., High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-263-7	7.80	6.40	5.78
LM2679S-3.3-ND	3.3V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-263-7	7.80	6.40	5.78
LM2679S-5.0-ND	5V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-263-7	7.80	6.40	5.78
LM2679S-12-ND	12V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-263-7	7.80	6.40	5.78
LM2679SD-3.3CT-ND	3.3V, High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	8.27	6.87	6.24
LM2679SD-3.3TR-ND	3.3V, High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	1326.00/250		
LM2679SD-5.0CT-ND	5V, High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	8.27	6.87	6.24
LM2679SD-5.0TR-ND	5V, High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	1326.00/250		
LM2679SD-ADJCT-ND	Adj., High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	8.27	6.87	6.24
LM2679SD-ADJTR-ND	Adj., High Eff. 5A Buck Reg. with Adj. Current Limit	14-LLP	1326.00/250		
LM2679T-ADJ-ND	Adj., High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-220-7	7.80	6.40	5.78
LM2679T-3.3-ND	3.3V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-220-7	7.80	6.40	5.78
LM2679T-5.0-ND	5V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-220-7	7.80	6.40	5.78
LM2679T-12-ND	12V, High Eff. 5A Buck Reg. with Adj. Current Limit*	TO-220-7	7.80	6.40	5.78
LM2698MM-ADJCT-ND	Adj., 1.35A Boost Regulator*	8-MSOP	5.22	4.27	3.83
LM2698MM-ADJTR-ND	Adj., 1.35A Boost Regulator*	8-MSOP	2436.00/1,000		
LM2852XMXA-0.8-ND	.8V, 2A, 500/1500kHz Synchronous Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-1.0-ND	1V, 2A, 500/1500kHz Synchronous Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-1.2-ND	1.2V, 2A, 500/1500kHz Synchronous Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-1.5-ND	1.5V, 2A, 500/1500kHz Synchronous Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-1.8-ND	1.8V, 2A, 500/1500kHz Synchronous Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-2.5-ND	2.5V, 2A, 500/1500kHz Synchronous Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-3.0-ND	3V, 2A, 500/1500kHz Synchronous Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852XMXA-3.3-ND	3.3V, 2A, 500/1500kHz Synchronous Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-0.8-ND	.8V, 2A Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-1.0-ND	1.0V, 2A Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-1.2-ND	1.2V, 2A Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-1.3-ND	1.3V, 2A Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-1.5-ND	1.5V, 2A Buck Regulator	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-1.8-ND	1.8V, 2A Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-2.5-ND	2.5V, 2A Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2852YMXA-3.3-ND	3.3V, 2A Buck Regulator*	14-TSSOP	4.76	3.83	3.49
LM2853MH-0.8-ND	.8V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-1.0-ND	1.0V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-1.2-ND	1.2V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-1.5-ND	1.5V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-1.8-ND	1.8V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-2.5-ND	2.5V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-3.0-ND	3.0V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2853MH-3.3-ND	3.3V, 3A Synchronous Buck Reg.*	14-TSSOP	5.04	4.05	3.69
LM2854MH-500-ND	4A, 500kHz Synchronous Buck Regulator*	16-eTSSOP	5.99	4.82	4.39
LM2854MH-1000-ND	4A, 1MHz Synchronous Regulator*	16-eTSSOP	5.99	4.82	4.39
LM3100MH-ND	Synchronous 1MHz, 1.5A Buck Voltage Regulator*	20-TSSOP	5.88	4.73	4.31
LM3102MH-ND	Sync. 1MHz, 2.5A Step-Down Voltage Regulator*	20-TSSOP	6.52	5.25	4.78
LM3103MH-ND	Sync. 1MHz, 0.75A Step-Down Voltage Regulator*	16-TSSOP	4.40	3.54	3.22
LM3150MHECT-ND	Sync. 6V-42V Step-Down Voltage Regulator*	14-eTSSOP	6.54	5.35	4.80
LM3150MHETR-ND	Sync. 6V-42V Step-Down Voltage Regulator*	14-eTSSOP	1008.25/250		
LM3151MHE-3.3CT-ND	Sync. 6V-42V Step-Down Voltage Regulator*	14-eTSSOP	6.54	5.35	4.80
LM3151MHE-3.3TR-ND	Sync. 6V-42V Step-Down Voltage Regulator*	14-eTSSOP	1008.25/250		
LM3152MHE-3.3CT-ND	Sync. 6V-33V Step-Down Voltage Regulator*	14-eTSSOP	6.54	5.35	4.80
LM3152MHE-3.3TR-ND	Sync. 6V-33V Step-Down Voltage Regulator*	14-eTSSOP	1008.25/250		
LM3153MHE-3.3CT-ND	Sync. 8V-18V Step-Down Voltage Regulator*	14-eTSSOP	6.54	5.35	4.80
LM3153MHE-3.3TR-ND	Sync. 8V-18V Step-Down Voltage Regulator*	14-eTSSOP	1008.25/250		
LM5574EVAL-ND	Evaluation Board for LM5574	—	42.43	—	—
LM5574MT-ND	75V, 0.5A Buck Switching Regulator*	16-TSSOP	4.40	3.54	3.22
LM5574QMT-ND	75V, 0.5A Buck Switching Regulator* ***NEW!***	16-eTSSOP	5.10	4.10	3.74
LM5575EVAL-ND	Evaluation Board for LM5575	—	42.43	—	—
LM5575MH-ND	75V, 1.5A Buck Switching Regulator*	16-TSSOP	5.71	4.59	4.19
LM5575QMH-ND	75V, 1.5A Buck Switching Regulator* ***NEW!***	20-eTSSOP	6.52	5.25	4.78
LM5576EVAL-ND	Evaluation Board for LM5576	—	42.43	—	—
LM5576MH-ND	75V, 3A Buck Switching Regulator*	20-TSSOP	6.90	5.66	5.11
LM5576QMH-ND	75V, 3A Buck Switching Regulator* ***NEW!***	20-eTSSOP	7.93	6.50	5.87
LM8801TME-1.82CT-ND	1.82V, 0.6A Buck Switching Regulator* ***NEW!***	6-µSMD	3.30	2.70	2.42
LM8801TME-1.82TR-ND	1.82V, 0.6A Buck Switching Regulator* ***NEW!***	6-µSMD	508.75/250		
LM22670MRE-5.0CT-ND	5V, 3A, Step-Down Voltage Regulator*	8-PSOP	5.64	4.61	4.14
LM22670MRE-5.0TR-ND	5V, 3A, Step-Down Voltage Regulator*	8-PSOP	869.50/250		
LM22670MRE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	5.64	4.61	4.14
LM22670MRE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	869.50/250		
LM22670TJE-5.0CT-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	5.64	4.61	4.14
LM22670TJE-5.0TR-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	869.50/250		
LM22670TJE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	5.64	4.61	4.14
LM22670TJE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	869.50/250		
LM22670EVAL-ND	Evaluation Board for LM22670	—	27.13	—	—
LM22670INVEVAL-ND	Evaluation Board for LM22670INV	—	32.85	—	—
LM22671MRE-5.0CT-ND	5.0V, 500mA, Step-Down Voltage Regulator*	8-PSOP	3.93	3.21	2.89
LM22671MRE-5.0TR-ND	5.0V, 500mA, Step-Down Voltage Regulator*	8-PSOP	606.00/250		

National Semiconductor Digi-Reel® (Cont.) POWER MANAGEMENT SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM22671MRE-ADJCT-ND	Adj., 500mA, Step-Down Voltage Regulator*	8-PSOP	3.93	3.21	2.89
LM22671MRE-ADJTR-ND	Adj., 500mA, Step-Down Voltage Regulator*	8-PSOP	606.00/250		
LM22671EVAL-ND	Evaluation Board for LM22671	—	27.13	—	—
LM22672MRE-5.0CT-ND	5.0V, 1A, Step-Down Voltage Regulator*	8-PSOP	5.01	4.10	3.68
LM22672MRE-5.0TR-ND	5.0V, 1A, Step-Down Voltage Regulator*	8-PSOP	772.50/250		
LM22672MRE-ADJCT-ND	Adj., 1A, Step-Down Voltage Regulator*	8-PSOP	5.01	4.10	3.68
LM22672MRE-ADJTR-ND	Adj., 1A, Step-Down Voltage Regulator*	8-PSOP	772.50/250		
LM22672EVAL-ND	Evaluation Board for LM22672	—	27.13	—	—
LM22673MRE-5.0CT-ND	5.0V, 3A, Step-Down Voltage Regulator*	8-PSOP	5.64	4.61	4.14
LM22673MRE-5.0TR-ND	5.0V, 3A, Step-Down Voltage Regulator*	8-PSOP	869.50/250		
LM22673MRE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	5.64	4.61	4.14
LM22673MRE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	869.50/250		
LM22673TJE-5.0CT-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	5.64	4.61	4.14
LM22673TJE-5.0TR-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	869.50/250		
LM22673TJE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	5.64	4.61	4.14
LM22673TJE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	869.50/250		
LM22673EVAL-ND	Evaluation Board for LM22673	—	27.13	—	—
LM22674MRE-5.0CT-ND	5.0V, 500mA, Step-Down Voltage Regulator*	8-PSOP	3.72	3.04	2.73
LM22674MRE-5.0TR-ND	5.0V, 500mA, Step-Down Voltage Regulator*	8-PSOP	573.50/250		
LM22674MRE-ADJCT-ND	Adj., 500mA, Step-Down Voltage Regulator*	8-PSOP	3.72	3.04	2.73
LM22674MRE-ADJTR-ND	Adj., 500mA, Step-Down Voltage Regulator*	8-PSOP	573.50/250		
LM22675MRE-5.0CT-ND	5.0V, 1A, Step-Down Voltage Regulator*	8-PSOP	4.80	3.92	3.52
LM22675MRE-5.0TR-ND	5.0V, 1A, Step-Down Voltage Regulator*	8-PSOP	740.00/250		
LM22675MRE-ADJCT-ND	Adj., 1A, Step-Down Voltage Regulator*	8-PSOP	4.80	3.92	3.52
LM22675MRE-ADJTR-ND	Adj., 1A, Step-Down Voltage Regulator*	8-PSOP	740.00/250		
LM22676MRE-5.0CT-ND	5.0V, 3A, Step-Down Voltage Regulator*	8-PSOP	5.37	4.39	3.94
LM22676MRE-5.0TR-ND	5.0V, 3A, Step-Down Voltage Regulator*	8-PSOP	828.00/250		
LM22676MRE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	5.37	4.39	3.94
LM22676MRE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	8-PSOP	828.00/250		
LM22676TJE-5.0CT-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	5.37	4.39	3.94
LM22676TJE-5.0TR-ND	5.0V, 3A, Step-Down Voltage Regulator*	TO-263-7	828.00/250		
LM22676TJE-ADJCT-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	5.37	4.39	3.94
LM22676TJE-ADJTR-ND	Adj., 3A, Step-Down Voltage Regulator*	TO-263-7	828.00/250		
LM22677TJE-5.0CT-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	8.37	6.96	6.32
LM22677TJE-5.0TR-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	1343.00/250		
LM22677TJE-ADJCT-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	8.37	6.96	6.32
LM22677TJE-ADJTR-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	1343.00/250		
LM22677EVAL-ND	Evaluation Board for LM22677	—	27.13	—	—
LM22678TJE-5.0CT-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	7.92	6.58	5.98
LM22678TJE-5.0TR-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	1270.75/250		
LM22678TJE-ADJCT-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	7.92	6.58	5.98
LM22678TJE-ADJTR-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	1270.75/250		
LM22679TJE-5.0CT-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	8.37	6.96	6.32
LM22679TJE-5.0TR-ND	5.0V, 5A, Step-Down Voltage Regulator*	TO-263-7	1343.00/250		
LM22679TJE-ADJCT-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	8.37	6.96	6.32
LM22679TJE-ADJTR-ND	Adj., 5A, Step-Down Voltage Regulator*	TO-263-7	1343.00/250		
LM22679EVAL-ND	Evaluation Board for LM22679*	—	27.13	—	—
LM22680MRE-ADJCT-ND	Adj., 2A Step-Down Voltage Regulator*	8-PSOP	5.10	4.17	3.74
LM22680MRE-ADJTR-ND	Adj., 2A Step-Down Voltage Regulator*	8-PSOP	786.25/250		
LM22680EVAL-ND	Evaluation Board for LM22680*	—	27.13	—	—
LM25574EVAL-ND	Evaluation Board for LM25574	—	42.43	—	—
LM25574MT-ND	42V, 0.5A Buck Switching Regulator*	16-TSSOP	3.78	3.04	2.77
LM25574QMT-ND	42V, 0.5A Buck Switching Regulator* ***NEW!***	16-TSSOP	4.40	3.54	3.22
LM25575EVAL-ND	Evaluation Board for LM25575	—	42.43	—	—
LM25575MH-ND	42V, 1.5A Buck Switching Regulator*	16-TSSOP	4.54	3.65	3.33
LM25575QMH-ND	42V, 1.5A Buck Switching Regulator* ***NEW!***	16-TSSOP	5.88	4.73	4.31
LM25576EVAL-ND	Evaluation Board for LM25576	—	42.43	—	—
LM25576MH-ND	42V, 3A Buck Switching Regulator*	20-TSSOP	6.13	4.93	4.49
LM25576QMH-ND	42V, 3A Buck Switching Regulator* ***NEW!***	20-TSSOP	6.52	5.25	4.78
LMZ10503TZ-ADJCT-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	14.84	12.58	11.61
LMZ10503TZ-ADJTR-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2499.50/250		
LMZ10504EVAL-ND	Evaluation Board for LMZ10504* ***NEW!***	—	27.13	—	—
LMZ10504TZ-ADJCT-ND	Adj., 4A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	15.99	13.56	12.51
LMZ10504TZ-ADJTR-ND	Adj., 4A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2693.25/250		
LMZ10505TZ-ADJCT-ND	Adj., 5A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	17.14	14.53	13.41
LMZ10505TZ-ADJTR-ND	Adj., 5A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2887.00/250		
LMZ12001TZ-ADJCT-ND	Adj., 1A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	11.73	9.95	9.18
LMZ12001TZ-ADJTR-ND	Adj., 1A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	1976.25/250		
LMZ12002TZ-ADJCT-ND	Adj., 2A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	13.46	11.41	10.53
LMZ12002TZ-ADJTR-ND	Adj., 2A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2267.00/250		
LMZ12003EVAL-ND	Evaluation Board for LMZ12003* ***NEW!***	—	27.13	—	—
LMZ12003TZ-ADJCT-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	16.33	13.85	12.78
LMZ12003TZ-ADJTR-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2751.25/250		
LMZ14201TZ-ADJCT-ND	Adj., 1A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	14.49	12.29	11.34
LMZ14201TZ-ADJTR-ND	Adj., 1A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2441.25/250		
LMZ14202TZ-ADJCT-ND	Adj., 2A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	16.79	14.24	13.14
LMZ14202TZ-ADJTR-ND	Adj., 2A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	2828.75/250		
LMZ14203EVAL-ND	Evaluation Board for LMZ14203* ***NEW!***	—	27.13	—	—
LMZ14203TZ-ADJCT-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	21.51	18.24	16.83
LMZ14203TZ-ADJTR-ND	Adj., 3A Buck Switching Regulator* ***NEW!***	TO-PMOD-7	3623.25/250		

National Semiconductor Digi-Reel® REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM113H-ND	Reference Diode*	TO-46	11.88	9.99	9.18
LM136AH-2.5-ND	2.5V, Reference Diode*	TO-46-3	12.72	10.70	9.83
LM136H-2.5-ND	2.5V, Reference Diode*	TO-46-3	11.75	9.64	8.70
LM136H-5.0-ND	5V, Reference Diode*	TO-46-3	11.75	9.64	8.70
LM185BH-ND	Adjustable Micropower Voltage Reference*	TO-46-3	15.18	12.77	11.73
LM185H-2.5-ND	Micropower Voltage Reference Diode	TO-46	11.50	9.43	8.51
LM236AH-5.0-ND	5V, Reference Diode*	TO-46-3	8.75	7.18	6.48
LM236H-2.5-ND	2.5V, Reference Diode*	TO-46-3	7.50	6.15	5.55
LM285BYM-ND	Adjustable Micropower Voltage Reference	8-SOIC	3.03	2.45	2.21
LM285BYZ-2.5-ND	2.5V, Reference Diode*	TO-92-3	2.64	2.13	1.92
LM285M-ND	Micropower Adjustable Voltage Reference*	8-SOIC	1.30	1.05	.92
LM285MXTR-ND	Micropower Adjustable Voltage Reference*	8-SOIC	1302.50/2,500		
LM285M-1.2-ND	1.2V, Reference Diode*	8-SOIC	.98	.79	.69
LM285M-2.5-ND	Micropower Voltage Reference Diode*	8-SOIC	1.04	.83	.73
LM285MX-2.5CT-ND	Micropower Voltage Reference Diode*	8-SOIC	1.12	.89	.80
LM285MX-2.5TR-ND	Micropower Voltage Reference Diode*	8-SOIC	1035.00/2,500		
LM285Z-1.2NS-ND	Micropower Voltage Reference Diode*	TO-92-3	.98	.79	.69
LM285Z-2.5-ND	2.5V, Reference Diode*	TO-92-3	1.04	.83	.73
LM329DZ-ND	6.9V Precision Zener 100ppm/°C*	TO-92-3	1.23	.98	.86
LM334M-ND	3-Terminal Adjustable Current Source*	8-SOIC	.95	.76	.67
LM334MXTR-ND	3-Terminal Adjustable Current Source*	8-SOIC	945.00/2,500		

*** RoHS Compliant**

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor Digi-Reel® (Cont.)

REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM334SM-ND	3-Terminal Adjustable Current Source*	8-SOIC	2.91	2.35	2.12
LM334ZNS-ND	3-Terminal Adjustable Current Source*	TO-92-3	.95	.76	.67
LM336BM-2.5-ND	2.5V Reference Diode*	8-SOIC	1.44	1.15	1.01
LM336BM-5.0-ND	5V Reference Diode*	8-SOIC	1.44	1.15	1.01
LM336BZ-2.5-ND	2.5V Reference Diode*	TO-92-3	1.47	1.18	1.03
LM336BZ-5.0-ND	5V Reference Diode*	TO-92-3	1.47	1.18	1.03
LM336M-2.5-ND	2.5V Reference Diode*	8-SOIC	.92	.72	.63
LM336MX-2.5TR-ND	2.5V Reference Diode	8-SOIC	835.00/2,500		
LM336M-5.0-ND	5.0V Reference Diode*	8-SOIC	.92	.72	.63
LM336Z-2.5NS-ND	2.5V Reference Diode*	TO-92-3	.96	.75	.65
LM336Z-5.0-ND	5.0V Reference Diode*	TO-92-3	.96	.75	.65
LM385BM-ND	Adj. Micropower Voltage Reference*	8-SOIC	1.23	.98	.86
LM385BM-1.2-ND	1.2V Reference Diode 150ppm/°C*	8-SOIC	1.19	.96	.84
LM385BM-2.5-ND	2.5V Reference Diode 150ppm/°C*	8-SOIC	1.19	.96	.84
LM385BXM-2.5-ND	2.5V Micropower Voltage Reference Diode*	8-SOIC	3.25	2.61	2.38
LM385BYZ-1.2-ND	1.2V Precision Voltage Reference 50ppm/°C	TO-92-3	2.39	1.93	1.74
LM385BZ-1.2NS-ND	Micropower Voltage Reference Diode*	TO-92-3	1.26	1.01	.89
LM385BZ-2.5NS-ND	2.5V, Voltage Reference Diode*	TO-92-3	1.26	1.01	.89
LM385M-ND	Adjustable Voltage Reference Diode*	8-SOIC	.95	.76	.67
LM385MX/NOPBCT-ND	Adjustable Voltage Reference Diode* ***NEW!***	8-SOIC	1.03	.81	.73
LM385MX/NOPBTR-ND	Adjustable Voltage Reference Diode*	8-SOIC	945.00/2,500		
LM385M-1.2-ND	1.2V, Voltage Reference Diode*	8-SOIC	.92	.72	.63
LM385MX-1.2CT-ND	1.2V, Voltage Reference Diode*	8-SOIC	1.01	.79	.69
LM385MX-1.2TR-ND	1.2V, Voltage Reference Diode*	8-SOIC	835.00/2,500		
LM385M-2.5-ND	2.5V, Voltage Reference Diode 150ppm/°C*	8-SOIC	.92	.72	.63
LM385MX-2.5CT-ND	2.5V, Voltage Reference Diode 150ppm/°C* ***NEW!***	8-SOIC	1.01	.79	.69
LM385MX-2.5TR-ND	2.5V, Voltage Reference Diode 150ppm/°C*	8-SOIC	835.00/2,500		
LM385M3-2.5CT-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	1.44	1.14	1.03
LM385M3-2.5TR-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	570.00/1,000		
LM385M3X-1.2CT-ND	1.2V, Micropower Voltage Reference Diode*	SOT-23-3	1.44	1.14	1.03
LM385M3X-1.2TR-ND	1.2V, Micropower Voltage Reference Diode*	SOT-23-3	1596.00/3,000		
LM385M3X-2.5CT-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23-3	1.44	1.14	1.03
LM385M3X-2.5TR-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23-3	1596.00/3,000		
LM385Z-ND	Adjustable Voltage Reference Diode*	TO-92-3	.95	.76	.67
LM385Z-1.2NS-ND	1.2V, Voltage Reference Diode*	TO-92-3	.88	.69	.60
LM385Z-2.5NS-ND	2.5V, Voltage Reference Diode*	TO-92-3	.88	.69	.60
LM431ACM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	.80	.62	.54
LM431ACMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	725.00/2,500		
LM431ACM3XCT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	.84	.65	.57
LM431ACM3XTR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	828.00/3,000		
LM431AIM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	.79	.62	.54
LM431AIM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	288.00/1,000		
LM431AIZ-ND	Adjustable Precision Zener Shunt Reg., Ind. Temp.*	TO-92-3	.72	.56	.49
LM431BCM-ND	Adjustable Precision Zener Shunt Regulator	SOT-8	.84	.66	.57
LM431BCM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	.88	.68	.60
LM431BCM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	320.00/1,000		
LM431BCZ-ND	Adjustable Precision Zener Shunt Regulator*	TO-92-3	.80	.62	.54
LM431BIM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	.76	.59	.52
LM431BIM3/NOPBCT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	.84	.65	.57
LM431BIM3/NOPBTR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	304.00/1,000		
LM431CCM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	.99	.78	.71
LM431CCM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	390.00/1,000		
LM431CIM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	1.05	.84	.74
LM431CIM3/NOPBCT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	1.22	.96	.87
LM431CIM3/NOPBTR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23-3	480.00/1,000		
LM4030AMF-2.5CT-ND	2.5V, Prec. Shunt Voltage Reference ±.05%*	SOT-23-5	5.70	4.66	4.18
LM4030AMF-2.5TR-ND	2.5V, Prec. Shunt Voltage Reference ±.05%*	SOT-23-5	2660.00/1,000		
LM4030AMF-4.096CT-ND	4.096V, Prec. Shunt Volt. Reference ±.05%*	SOT-23-5	5.70	4.66	4.18
LM4030AMF-4.096TR-ND	4.096V, Prec. Shunt Volt. Reference ±.05%*	SOT-23-5	2660.00/1,000		
LM4030BMF-2.5CT-ND	2.5V, Prec. Shunt Voltage Reference ±.1%*	SOT-23-5	3.27	2.68	2.40
LM4030BMF-2.5TR-ND	2.5V, Prec. Shunt Voltage Reference ±.1%*	SOT-23-5	1526.00/1,000		
LM4030BMF-4.096CT-ND	4.096V, Prec. Shunt Voltage Reference ±.1%*	SOT-23-5	3.27	2.68	2.40
LM4030BMF-4.096TR-ND	4.096V, Prec. Shunt Voltage Reference ±.1%*	SOT-23-5	1526.00/1,000		
LM4030CMF-2.5CT-ND	2.5V, Prec. Shunt Voltage Reference ±.15%*	SOT-23-5	3.09	2.50	2.25
LM4030CMF-2.5TR-ND	2.5V, Prec. Shunt Voltage Reference ±.15%*	SOT-23-5	1447.00/1,000		
LM4030CMF-4.096CT-ND	4.096V, Prec. Shunt Volt. Reference ±.15%*	SOT-23-5	3.09	2.50	2.25
LM4030CMF-4.096TR-ND	4.096V, Prec. Shunt Volt. Reference ±.15%*	SOT-23-5	1447.00/1,000		
LM4040AIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	2.35	1.82	1.65
LM4040AIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	973.00/1,000		
LM4040AIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	2.35	1.82	1.65
LM4040AIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	973.00/1,000		
LM4040AIM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23-3	2.35	1.82	1.65
LM4040AIM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23-3	973.00/1,000		
LM4040AIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	2.35	1.82	1.65
LM4040AIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	973.00/1,000		
LM4040AIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%*	TO-92-3	2.08	1.68	1.51
LM4040AIZ-4.1-ND	4.096V, Prec. Micropower Shunt Volt. Ref. ±.1%* ***NEW!***	TO-92-3	1.79	1.45	1.31
LM4040AIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92-3	2.08	1.68	1.51
LM4040BIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	1.57	1.25	1.12
LM4040BIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	621.00/1,000		
LM4040BIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	1.57	1.25	1.12
LM4040BIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	621.00/1,000		
LM4040BIM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23-3	1.57	1.25	1.12
LM4040BIM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23-3	621.00/1,000		
LM4040BIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23-3	1.57	1.25	1.12
LM4040BIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23-3	621.00/1,000		
LM4040BIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	1.57	1.25	1.12
LM4040BIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	621.00/1,000		
LM4040BIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%*	SC70-5	1.45	1.12	1.02
LM4040BIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%*	SC70-5	621.00/1,000		
LM4040BIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%*	TO-92-3	1.45	1.16	1.02
LM4040CIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.05	.83	.75
LM4040CIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	414.00/1,000		
LM4040CIM3-4.1NSCT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.05	.83	.75
LM4040CIM3-4.1NSTR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	414.00/1,000		
LM4040CIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.05	.83	.75
LM4040CIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	414.00/1,000		
LM4040CIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.05	.83	.75
LM4040CIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	414.00/1,000		
LM4040CIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.05	.83	.75
LM4040CIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	414.00/1,000		
LM4040CIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%*	TO-92-3	.97	.78	.68
LM4040CIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92-3	.97	.78	.68
LM4040CIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%*	TO-92-3	.97	.78	.68
LM4040DEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	1.16	.92	.83
LM4040DEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	456.00/1,000		

National Semiconductor Digi-Reel® (Cont.)

REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4040DEM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23-3	1.16	.92	.83
LM4040DEM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23-3	456.00/1,000		
LM4040DIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	1.05	.81	.72
LM4040DIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	381.00/1,000		
LM4040DIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	1.05	.81	.72
LM4040DIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%*	SOT-23-3	381.00/1,000		
LM4040DIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23-3	1.05	.81	.72
LM4040DIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23-3	381.00/1,000		
LM4040DIM3-10/NOPBCT-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23-3	1.01	.79	.69
LM4040DIM3-10/NOPBTR-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23-3	381.00/1,000		
LM4040DIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%*	TO-92-3	.99	.77	.67
LM4040DIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%*	TO-92-3	5.43	2.47	1.73
LM4040DIZ-5.0/NOPB-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92-3	.99	.77	.67
LM4040DIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92-3	.95	.74	.65
LM4040EEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23-3	.95	.75	.68
LM4040EEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23-3	375.00/1,000		
LM4040EIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	.92	.72	.63
LM4040EIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	336.00/1,000		
LM4041AIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	2.45	1.89	1.72
LM4041AIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%*	SOT-23-3	1015.00/1,000		
LM4041BIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	1.56	1.23	1.11
LM4041BIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%*	SOT-23-3	615.00/1,000		
LM4041CEM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23-3	1.25	.99	.90
LM4041CEM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23-3	495.00/1,000		
LM4041CEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	1.49	1.08	.78
LM4041CEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	495.00/1,000		
LM4041CIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	.95	.75	.68
LM4041CIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SOT-23-3	375.00/1,000		
LM4041CIM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23-3	.95	.75	.68
LM4041CIM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23-3	375.00/1,000		
LM4041CIM7-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%*	SC70-5	1.03	.81	.73
LM4041CIM7-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%*	SC70-5	405.00/1,000		
LM4041CIM7-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SC70-5	1.03	.81	.73
LM4041CIM7-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	SC70-5	405.00/1,000		
LM4041CIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%*	TO-92-3	.95	.76	.67
LM4041DEM3-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23-3	1.14	.90	.81
LM4041DEM3-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%	SOT-23-3	450.00/1,000		
LM4041DEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	1.14	.90	.81
LM4041DEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	450.00/1,000		
LM4041DIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	1.01	.79	.69
LM4041DIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	368.00/1,000		
LM4041DIM3-ADJNSCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	1.01	.79	.69
LM4041DIM3-ADJNSTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%*	SOT-23-3	368.00/1,000		
LM4041DIZ-ADJ-ND	Adj., Prec. Micropower Shunt Volt. Reference ±1.0%*	TO-92-3	.96	.75	.65
LM4041EEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	1.01	.79	.69
LM4041EEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	368.00/1,000		
LM4041EIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	1.01	.79	.69
LM4041EIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±2%*	SOT-23-3	368.00/1,000		
LM4050AEM3-2.0CT-ND	2V, Precision Micropower Shunt Voltage Ref.* ***NEW!***	SOT-23-3	3.90	3.19	2.86
LM4050AEM3-2.0TR-ND	2V, Precision Micropower Shunt Voltage Ref.* ***NEW!***	SOT-23-3	1820.00/1,000		
LM4050AEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.90	3.19	2.86
LM4050AEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1820.00/1,000		
LM4050AEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.90	3.19	2.86
LM4050AEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1820.00/1,000		
LM4050AEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.90	3.19	2.86
LM4050AEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1820.00/1,000		
LM4050AEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.90	3.19	2.86
LM4050AEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1820.00/1,000		
LM4050AIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.57	2.92	2.62
LM4050AIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1666.00/1,000		
LM4050AIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.57	2.92	2.62
LM4050AIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1666.00/1,000		
LM4050AIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.57	2.92	2.62
LM4050AIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1666.00/1,000		
LM4050AIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.57	2.92	2.62
LM4050AIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1666.00/1,000		
LM4050BEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.29	2.54	2.31
LM4050BEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1363.00/1,000		
LM4050BEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.29	2.54	2.31
LM4050BEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1363.00/1,000		
LM4050BEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.29	2.54	2.31
LM4050BEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1363.00/1,000		
LM4050BEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.29	2.54	2.31
LM4050BEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1363.00/1,000		
LM4050BIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.16	2.44	2.21
LM4050BIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1308.00/1,000		
LM4050BIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.16	2.44	2.21
LM4050BIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1308.00/1,000		
LM4050BIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.16	2.44	2.21
LM4050BIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1308.00/1,000		
LM4050CEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	2.94	2.27	2.06
LM4050CEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1218.00/1,000		
LM4050CEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	2.94	2.27	2.06
LM4050CEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1218.00/1,000		
LM4050CIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	2.59	2.01	1.82
LM4050CIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1074.00/1,000		
LM4050CIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	2.59	2.01	1.82
LM4050CIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1074.00/1,000		
LM4050CIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	2.59	2.01	1.82
LM4050CIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1074.00/1,000		
LM4051AIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.57	2.92	2.62
LM4051AIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	1666.00/1,000		
LM4051AIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23-3	3.57	2.92	2.62
LM4051AIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23-3	1666.00/1,000		
LM4051BEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.23	2.49	2.26
LM4051BEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1363.00/1,000		
LM4051BIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.16	2.44	2.21
LM4051BIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	1308.00/1,000		
LM4051BIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	3.16	2.44	2.21
LM4051BIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1308.00/1,000		
LM4051CIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	2.59	2.01	1.82
LM4051CIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23-3	1074.00/1,000		
LM4051CIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	2.59	2.01	1.82
LM4051CIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23-3	1074.00/1,000		
LM4431M3-2.5CT-ND	Precision Volt. Micropower Shunt Voltage Reference*	SOT-23-3	1.22	.96	.87
LM4431M3-2.5TR-ND	Precision Volt. Micropower Shunt Voltage Reference*	SOT-23-3	480.00/1,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor DigiReel® (Cont.) REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	PowerWise®				
LM4120AIM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-2.0CT-ND	2V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-2.0TR-ND	2V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-3.0CT-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-3.0TR-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	1378.00/1,000		
LM4120AIM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	3.33	2.57	2.33
LM4120AIM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1378.00/1,000		
LM4120IM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.83	2.19	1.98
LM4120IM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1172.00/1,000		
LM4120IM5-2.0CT-ND	2V, Precision Micropower LDO Reference	SOT-23-5	2.83	2.19	1.98
LM4120IM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1172.00/1,000		
LM4120IM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	2.83	2.19	1.98
LM4120IM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	1172.00/1,000		
LM4120IM5-3.0CT-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	2.83	2.19	1.98
LM4120IM5-3.0TR-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	1172.00/1,000		
LM4120IM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.83	2.19	1.98
LM4120IM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1172.00/1,000		
LM4120IM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	2.83	2.19	1.98
LM4120IM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	1172.00/1,000		
LM4120IM5-5.0CT-ND	5V, Precision Micropower LDO Reference*	SOT-23-5	2.83	2.19	1.98
LM4120IM5-5.0TR-ND	5V, Precision Micropower LDO Reference*	SOT-23-5	1172.00/1,000		
LM4121AIM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference*	SOT-23-5	3.33	2.57	2.33
LM4121AIM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference*	SOT-23-5	1378.00/1,000		
LM4121AIM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.33	2.57	2.33
LM4121AIM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1378.00/1,000		
LM4121IM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	2.83	2.19	1.98
LM4121IM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	1172.00/1,000		
LM4121IM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.83	2.19	1.98
LM4121IM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1172.00/1,000		
LM4125AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.28	1.76	1.60
LM4125IM5-2.0CT-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.10	1.62	1.47
LM4125IM5-2.0TR-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	870.00/1,000		
LM4125IM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.10	1.62	1.47
LM4125IM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	870.00/1,000		
LM4128AMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.16	2.44	2.21
LM4128AMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1308.00/1,000		
LM4128AQ1MF1.8CT-ND	1.8V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF1.8TR-ND	1.8V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.001,000		
LM4128AQ1MF2.0CT-ND	2.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF2.0TR-ND	2.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.00/1,000		
LM4128AQ1MF2.5CT-ND	2.5V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF2.5TR-ND	2.5V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.00/1,000		
LM4128AQ1MF3.0CT-ND	3.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF3.0TR-ND	3.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.00/1,000		
LM4128AQ1MF3.3CT-ND	3.3V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF3.3TR-ND	3.3V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.001,000		
LM4128AQ1MF4.1CT-ND	4.1V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.24	2.65	2.38
LM4128AQ1MF4.1TR-ND	4.1V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1512.00/1,000		
LM4128BMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.66	2.06	1.87
LM4128BMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1102.00/1,000		
LM4128BQ1MF1.8CT-ND	1.8V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF1.8TR-ND	1.8V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128BQ1MF2.0CT-ND	2.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF2.0TR-ND	2.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128BQ1MF2.5CT-ND	2.5V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF2.5TR-ND	2.5V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128BQ1MF3.0CT-ND	3.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF3.0TR-ND	3.0V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128BQ1MF3.3CT-ND	3.3V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF3.3TR-ND	3.3V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128BQ1MF4.1CT-ND	4.1V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	3.19	2.47	2.24
LM4128BQ1MF4.1TR-ND	4.1V, Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT-23-5	1322.00/1,000		
LM4128CMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.16	1.67	1.52
LM4128CMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	896.00/1,000		
LM4128CMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.16	1.67	1.52
LM4128CMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	896.00/1,000		
LM4128CMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.16	1.67	1.52
LM4128CMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	896.00/1,000		
LM4128CMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.16	1.67	1.52
LM4128CMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	896.00/1,000		
LM4128CMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.16	1.67	1.52
LM4128CMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	896.00/1,000		
LM4128CQ1MF1.8CT-ND	1.8V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82
LM4128CQ1MF1.8TR-ND	1.8V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128CQ1MF2.0CT-ND	2V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82
LM4128CQ1MF2.0TR-ND	2V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128CQ1MF2.5CT-ND	2.5V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82
LM4128CQ1MF2.5TR-ND	2.5V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128CQ1MF3.0CT-ND	3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82

National Semiconductor DigiReel® (Cont.) REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4128CQ1MF3.0TR-ND	3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128CQ1MF3.3CT-ND	3.3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82
LM4128CQ1MF3.3TR-ND	3.3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128CQ1MF4.1CT-ND	4.1V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.59	2.01	1.82
LM4128CQ1MF4.1TR-ND	4.1V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	1074.00/1,000		
LM4128DMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.83	1.41	1.28
LM4128DMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	757.00/1,000		
LM4128DQ1MF1.8CT-ND	1.8V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF1.8TR-ND	1.8V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4128DQ1MF2.0CT-ND	2V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF2.0TR-ND	2V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4128DQ1MF2.5CT-ND	2.5V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF2.5TR-ND	2.5V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4128DQ1MF3.0CT-ND	3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF3.0TR-ND	3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4128DQ1MF3.3CT-ND	3.3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF3.3TR-ND	3.3V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4128DQ1MF4.1CT-ND	4.1V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	2.19	1.70	1.54
LM4128DQ1MF4.1TR-ND	4.1V, Precision Micropower Volt. Reference* ***NEW!***	SOT-23-5	909.00/1,000		
LM4132AMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	6.60	5.39	4.84
LM4132AMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3080.00/1,000		
LM4132AMF-2.0CT-ND	2V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	6.60	5.39	4.84
LM4132AMF-2.0TR-ND	2V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3080.00/1,000		
LM4132AMF-2.5CT-ND	2.5V, Precision LDO Voltage Reference*	SOT-23-5	6.60	5.39	4.84
LM4132AMF-2.5TR-ND	2.5V, Precision LDO Voltage Reference*	SOT-23-5	3080.00/1,000		
LM4132AMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	6.60	5.39	4.84
LM4132AMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3080.00/1,000		
LM4132AMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	6.60	5.39	4.84
LM4132AMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3080.00/1,000		
LM4132AMF-4.1CT-ND	4.1V, Precision LDO Voltage Reference*	SOT-23-5	6.60	5.39	4.84
LM4132AMF-4.1TR-ND	4.1V, Precision LDO Voltage Reference*	SOT-23-5	3080.00/1,000		
LM4132BMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.42	2.80	2.51
LM4132BMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1596.00/1,000		
LM4132BMF-2.5CT-ND	2.5V, Precision LDO Voltage Reference*	SOT-23-5	3.42	2.80	2.51
LM4132BMF-2.5TR-ND	2.5V, Precision LDO Voltage Reference*	SOT-23-5	1596.00/1,000		
LM4132BMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.42	2.80	2.51
LM4132BMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1596.00/1,000		
LM4132BMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.42	2.80	2.51
LM4132BMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1596.00/1,000		
LM4132BMF-4.1CT-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.42	2.80	2.51
LM4132BMF-4.1TR-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1596.00/1,000		
LM4132CMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.49	2.70	2.45
LM4132CMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1447.00/1,000		
LM4132CMF-2.5CT-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.49	2.70	2.45
LM4132CMF-2.5TR-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1447.00/1,000		
LM4132CMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.49	2.70	2.45
LM4132CMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1447.00/1,000		
LM4132CMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.49	2.70	2.45
LM4132CMF-4.1CT-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.49	2.70	2.45
LM4132CMF-4.1TR-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1447.00/1,000		
LM4132DMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.39	2.62	2.38
LM4132DMF-2.5CT-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.39	2.62	2.38
LM4132DMF-2.5TR-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1405.00/1,000		
LM4132DMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.39	2.62	2.38
LM4132DMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1405.00/1,000		
LM4132DMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.39	2.62	2.38
LM4132DMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1405.00/1,000		
LM4132DMF-4.1CT-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.39	2.62	2.38
LM4132DMF-4.1TR-ND	4.1V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1405.00/1,000		
LM4132EMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.33	2.57	2.33
LM4132EMF-2.5CT-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.09	2.39	2.17
LM4132EMF-2.5TR-ND	2.5V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1282.00/1,000		
LM4132EMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.33	2.57	2.33
LM4132EMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.09	2.39	2.17
LM4132EMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1282.00/1,000		
LM4132EMF-4.1CT-ND	4.1V Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	3.09	2.39	2.17
LM4132EMF-4.1TR-ND	4.1V Precision LDO Voltage Reference* ***NEW!***	SOT-23-5	1282.00/1,000		
LM4140ACM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	6.38	5.13	4.68
LM4140ACM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	6.38	5.13	4.68
LM4140ACM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	6.38	5.13	4.68
LM4140ACM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	6.38	5.13	4.68
LM4140ACM-4.1-ND	4.096V, Precision LDO Voltage Reference*	8-SOIC	6.38	5.13	4.68
LM4140BCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.46	4.39	4.00
LM4140BCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.46	4.39	4.00
LM4140BCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.46	4.39	4.00
LM4140BCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.46	4.39	4.00
LM4140BCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.46	4.39	4.00
LM4140CCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.04	4.05	3.69
LM4140CCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.04	4.05	3.69
LM4140CCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.04	4.05	3.69
LM4140CCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.04	4.05	3.69
LM4140CCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.04	4.05	3.69
LMV431ACM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.88	.69	.61
LMV431ACM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	322.00/1,000		
LMV431ACZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.90	.65	.47
LMV431AIM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.88	.69	.61
LMV431AIM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	322.00/1,000		
LMV431AIZ/NOPB-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	TO-92-3	.83	.65	.57
LMV431BIMFCT-ND	Low-Voltage (1.24V) Adj. Prec. Shunt Reg.* ***NEW!***	SOT-23-3	1.44	1.14	1.03
LMV431BIMFTR-ND	Low-Voltage (1.24V) Adj. Prec. Shunt Reg.* ***NEW!***	SOT-23-3	569.00/1,000		
LMV431CM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.70	.55	.48
LMV431CM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	256.00/1,000		
LMV431IM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.70	.55	.48
LMV431IM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	256.00/1,000		

*** RoHS Compliant**

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

National Semiconductor DigiReel® THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM19CIZ-ND	2.4V, 10µA Temperature Sensor, -55° to 130°C*	TO-92-3	.92	.72	.63
LM20BIM7/NOPBCT-ND	Micro SMD Temperature Sensor, ±2.5°C	SC70-5	1.25	.99	.90
LM20BIM7/NOPBTR-ND	Micro SMD Temperature Sensor, ±2.5°C	SC70-5	495.00/1,000		
LM20CIM7CT-ND	Micro SMD Temperature Sensor, ±5°C*	SC70-5	1.06	.84	.76
LM20CIM7TR-ND	Micro SMD Temperature Sensor, ±5°C*	SC70-5	420.00/1,000		
LM34AH-ND	Precision Fahrenheit Temp. Sensor, -50°F ~ 300°F*	TO-46-3	17.42	14.66	13.47
LM34CAH-ND	Precision Fahrenheit Temp. Sensor, -40°F ~ 230°F*	TO-46-3	14.52	12.21	11.22
LM34CAZ-ND	Precision Fahrenheit Temp. Sensor, -40°F ~ 230°F*	TO-92-3	8.50	6.97	6.29
LM34CZ-ND	Precision Fahrenheit Temp. Sensor, -40°F ~ 230°F*	TO-92-3	6.60	5.42	4.89
LM34DM-ND	Precision Fahrenheit Temp. Sensor, +32°F ~ 212°F*	8-SOIC	2.45	1.98	1.78
LM34DZ-ND	Precision Fahrenheit Temp. Sensor, +32°F ~ 212°F*	TO-92-3	2.51	2.03	1.83
LM35AH-ND	Precision Celsius Temp. Sensor, -55°C ~ 150°C*	TO-46-3	22.40	19.04	17.64
LM35CAH-ND	Precision Celsius Temp. Sensor, -40°C ~ 110°C*	TO-46-3	14.52	12.21	11.22
LM35CAZ-ND	Precision Celsius Temp. Sensor, -40°C ~ 110°C*	TO-92-3	6.55	5.38	4.85
LM35CH-ND	Precision Celsius Temp. Sensor, -40°C ~ 110°C*	TO-46-3	11.35	9.55	8.78
LM35CZ-ND	Precision Celsius Temp. Sensor, -40°C ~ 110°C*	TO-92-3	6.24	5.02	4.58
LM35DH-ND	Precision Celsius Temperature Sensor, 0°C ~ 100°C*	TO-46-3	10.73	8.80	7.94
LM35DM-ND	Precision Celsius Temperature Sensor, 0°C ~ 100°C*	8-SOIC	1.83	1.48	1.33
LM35DMXCT-ND	Precision Celsius Temp. Sensor, 0°C ~ 100°C*	8-SOIC	2.07	1.60	1.45
LM35DMXTR-ND	Precision Celsius Temp. Sensor, 0°C ~ 100°C*	8-SOIC	1992.50/2,500		
LM35DT-ND	Precision Celsius Temperature Sensor*	TO-220-3	3.04	2.45	2.21
LM35DZ-ND	Precision Celsius Temperature Sensor, 0°C ~ 100°C*	TO-92-3	1.71	1.38	1.24
LM45BIM3CT-ND	Precision Celsius Temperature Sensor*	SOT-23-3	1.93	1.49	1.35
LM45BIM3TR-ND	Precision Celsius Temperature Sensor*	SOT-23-3	798.00/1,000		
LM45CIM3CT-ND	Precision Celsius Temperature Sensor*	SOT-23-3	1.10	.87	.79
LM45CIM3TR-ND	Precision Celsius Temperature Sensor*	SOT-23-3	435.00/1,000		
LM50BIM3/NOPBCT-ND	Single Supply Centigrade Temperature Sensor*	SOT-23-3	1.79	1.38	1.25
LM50BIM3/NOPBTR-ND	Single Supply Centigrade Temperature Sensor*	SOT-23-3	740.00/1,000		
LM50CIM3CT-ND	Single Supply Centigrade Temperature Sensor*	SOT-23-3	1.06	.84	.76
LM50CIM3TR-ND	Single Supply Centigrade Temperature Sensor*	SOT-23-3	420.00/1,000		
LM60BIM3CT-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	SOT-23-3	1.33	1.05	.95
LM60BIM3TR-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	SOT-23-3	524.00/1,000		
LM60BIZ-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	TO-92	1.19	.96	.84
LM60CIM3CT-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	SOT-23-3	1.03	.81	.73
LM60CIM3TR-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	SOT-23-3	405.00/1,000		
LM60CIZ-ND	2.7V, Temperature Sensor, -40°C ~ 125°C*	TO-92-3	.92	.72	.63
LM61BIZ-ND	2.7V, Temperature Sensor, -30°C ~ 100°C* ***NEW!***	TO-92-3	1.19	.96	.84
LM61CIM3CT-ND	2.7V, Temperature Sensor, -30°C ~ 100°C*	SOT-23-3	.99	.78	.71
LM61CIM3TR-ND	2.7V, Temperature Sensor, -30°C ~ 100°C*	SOT-23-3	390.00/1,000		
LM61CIZ-ND	2.7V, Temperature Sensor, -30°C ~ 100°C*	TO-92-3	.84	.66	.57
LM62BIM3CT-ND	2.7V, Temperature Sensor, 0°C ~ 100°C*	SOT-23-3	1.29	1.02	.92
LM62BIM3TR-ND	2.7V, Temperature Sensor, 0°C ~ 100°C*	SOT-23-3	510.00/1,000		
LM62CIM3/NOPBCT-ND	2.7V, Temperature Sensor, 0°C ~ 100°C*	SOT-23-3	1.03	.81	.73
LM62CIM3/NOPBTR-ND	2.7V, Temperature Sensor, 0°C ~ 100°C*	SOT-23-3	405.00/1,000		
LM74CIM-3/NOPB-ND	3V, 12-Bit Digital Temperature Sensor*	8-SOIC	1.86	1.50	1.35
LM74CIM-5-ND	5V, 12-Bit Digital Temperature Sensor*	8-SOIC	1.86	1.50	1.35
LM75AIM-ND	2.7V~5.5V Digital Temp. Sensor/Thermal Watchdog*	8-SOP	1.56	1.26	1.14
LM75BIM-3-ND	3V~5.5V Digital Temperature Sensor* ***NEW!***	8-SOIC	1.86	1.50	1.35
LM75CIMM-5CT-ND	5V, Digital Temperature Sensor/Thermal Watchdog*	8-MSOP	2.45	1.89	1.72
LM76CHM-5-ND	5V, Digital Temperature Sensor/Thermal Window*	8-SOIC	2.80	2.25	2.05
LM77CIM-3-ND	3V, Digital Temperature Sensor/Thermal Window*	8-SOIC	2.26	1.83	1.65
LM77CIM-5-ND	5V, Digital Temperature Sensor/Thermal Window*	8-SOIC	2.26	1.83	1.65
LM77CIMM-3CT-ND	3V, Digital Temperature Sensor/Thermal Window	8-MSOP	2.56	1.98	1.79
LM77CIMM-3TR-ND	3V, Digital Temperature Sensor/Thermal Window	8-MSOP	1059.00/1,000		
LM77CIMM-5CT-ND	5V, Digital Temperature Sensor/Thermal Window	8-MSOP	2.56	1.98	1.79
LM77CIMM-5TR-ND	5V, Digital Temperature Sensor/Thermal Window	8-MSOP	1059.00/1,000		
LM81BIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V*	24-TSSOP	4.06	3.27	2.98
LM81CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V*	24-TSSOP	4.06	3.27	2.98
LM82CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor*	16-SSOP	4.62	3.72	3.39
LM83CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor*	16-SSOP	6.66	5.36	4.88
LM90CIMMCT-ND	Remote Diode/Digital Temp. Sensor	8-MSOP	2.38	1.84	1.67
LM90CIMMTR-ND	Remote Diode/Digital Temp. Sensor	8-MSOP	986.00/1,000		
LM93CIMT-ND	Hardware Monitor with Integrated Fan Control*	56-TSSOP	11.88	9.74	8.79
LM135AH-ND	Precision Temperature Sensor	TO-46-3	20.86	17.54	16.12
LM135H-ND	Precision Temperature Sensor*	TO-46-3	12.00	9.84	8.88
LM234Z-3-ND	Adjustable Current Source/Temperature Sensor*	TO-92-3	3.05	2.46	2.24
LM234Z-6-ND	Adjustable Current Source/Temperature Sensor*	TO-92-3	1.62	1.30	1.14
LM235AH-ND	Precision Temperature Sensor*	TO-46-3	13.20	11.10	10.20
LM235H-ND	Precision Temperature Sensor*	TO-46-3	9.75	8.00	7.22
LM335AH-ND	Precision Temperature Sensor*	TO-46-3	8.75	7.18	6.48
LM335AM-ND	Precision Temperature Sensor*	8-SOIC	1.68	1.35	1.18
LM335AZNS-ND	Precision Temperature Sensor*	TO-92-3	1.64	1.33	1.20
LM335M-ND	Precision Temperature Sensor*	8-SOIC	1.16	.93	.81
LM335ZNS-ND	Voltage Mode Temperature Sensor*	TO-92-3	1.19	.96	.84
LM95221CIMMCT-ND	Dual Remote Diode Digital Temp. Sensor*	8-MSOP	3.15	2.43	2.21
LM95221CIMMTR-ND	Dual Remote Diode Digital Temp. Sensor*	8-MSOP	1305.00/1,000		
LM95231BIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.33	2.72	2.45
LM95231BIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1554.00/1,000		
LM95231BIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.33	2.72	2.45
LM95231BIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1554.00/1,000		
LM95231BIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.33	2.72	2.45
LM95231BIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1554.00/1,000		
LM95231CIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor	8-MSOP	3.33	2.57	2.33
LM95231CIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor	8-MSOP	1378.00/1,000		
LM95231CIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.33	2.57	2.33
LM95231CIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1378.00/1,000		
LM95231CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.33	2.57	2.33
LM95231CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1378.00/1,000		
LM95245CIM-ND	Precision Dual Remote Diode Temp. Sensor*	8-SOIC	2.36	1.90	1.71
LM95245CIMMCT-ND	Precision Dual Remote Diode Temp. Sensor*	8-MSOP	2.87	2.22	2.01
LM95245CIMMTR-ND	Precision Dual Remote Diode Temp. Sensor*	8-MSOP	1189.00/1,000		
USBN9603-28M-ND	Universal Serial Bus Node Controller, Enhanced DMA*	28-SOIC	6.89	5.54	5.05
USBN9604-28M-ND	Universal Serial Bus Node Controller, Enhanced DMA* ***NEW!***	28-SOIC	6.33	5.19	4.69
USBN9604SLBXCT-ND	Universal Serial Bus Node Controller, Enhanced DMA	28-CSP	5.80	4.59	3.68
USBN9604SLBXTR-ND	Universal Serial Bus Node Controller, Enhanced DMA	28-CSP	8547.50/2,500		

National Semiconductor DigiReel® (Cont.) THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	PowerWise®				
LM26CIM5-DPB/NOPBCT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-DPB/NOPBTR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-HHDCT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-HHDTR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-NPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-NPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-PHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-PHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-RPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-RPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-SHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.66	1.32	1.18
LM26CIM5-SHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	656.00/1,000		
LM26CIM5-SPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-SPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-TPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-TPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-VHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-VHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-VPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-VPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-XHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-XHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-XPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-XPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26CIM5-YHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.66	1.32	1.18
LM26CIM5-YHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	656.00/1,000		
LM26CIM5-YPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.66	1.32	1.18
LM26CIM5-YPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	656.00/1,000		
LM26CIM5-YPECT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.60	1.26	1.14
LM26CIM5-YPETR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	630.00/1,000		
LM26CIM5-ZHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.66	1.32	1.18
LM26CIM5-ZHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	656.00/1,000		
LM26LVCISD-050CT-ND	1.6V, 50°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-050TR-ND	1.6V, 50°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-060CT-ND	1.6V, 60°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-060TR-ND	1.6V, 60°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-065CT-ND	1.6V, 65°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-065TR-ND	1.6V, 65°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-070CT-ND	1.6V, 70°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-070TR-ND	1.6V, 70°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-075CT-ND	1.6V, 75°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-075TR-ND	1.6V, 75°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-080CT-ND	1.6V, 80°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-080TR-ND	1.6V, 80°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-085CT-ND	1.6V, 85°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-085TR-ND	1.6V, 85°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-090CT-ND	1.6V, 90°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-090TR-ND	1.6V, 90°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-095CT-ND	1.6V, 95°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-095TR-ND	1.6V, 95°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-100CT-ND	1.6V, 100°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-100TR-ND	1.6V, 100°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-105CT-ND	1.6V, 105°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-105TR-ND	1.6V, 105°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-110CT-ND	1.6V, 110°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-110TR-ND	1.6V, 110°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-115CT-ND	1.6V, 115°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-115TR-ND	1.6V, 115°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-120CT-ND	1.6V, 120°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-120TR-ND	1.6V, 120°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-125CT-ND	1.6V, 125°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-125TR-ND	1.6V, 125°C Preset. Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-130CT-ND	1.6V, 130°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-130TR-ND	1.6V, 130°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-135CT-ND	1.6V, 135°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-135TR-ND	1.6V, 135°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-140CT-ND	1.6V, 140°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-140TR-ND	1.6V, 140°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-145CT-ND	1.6V, 145°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-145TR-ND	1.6V, 145°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-150CT-ND	1.6V, 150°C Preset Switch/Temp. Sensor*	6-LLP	1.73	1.37	1.24
LM26LVCISD-150TR-ND	1.6V, 150°C Preset Switch/Temp. Sensor*	6-LLP	684.00/1,000		
LM26LVCISD-XPECT-ND	1.6V, 150°C Preset Switch/Temp. Sensor*	6-LLP	1.93	1.49	1.35
LM27CIM5-1HJCT-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.10	1.62	1.47
LM27CIM5-1HJTR-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat	SOT-23-5	870.00/1,000		
LM27CIM5-2HJCT-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.10	1.62	1.47
LM27CIM5-2HJTR-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat	SOT-23-5	870.00/1,000		
LM27CIM5-ZHJCT-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat*	SOT-23-5	2.63	2.03	1.84
LM27CIM5-ZHJTR-ND	±3°C Acc., 120°C-150°C Factory Preset Thermostat*	SOT-23-5	870.00/1,000		
LM56BIM-ND	Dual Output Low Power Thermostat*	8-SOIC	2.50	2.02	1.82
LM56BIMMCT-ND	Dual Output Low Power Thermostat*	8-MSOP	3.33	2.57	2.33
LM56BIMMTR-ND	Dual Output Low Power Thermostat*	8-MSOP	1378.00/1,000		
LM56CIM-ND	Dual Output Low Power Thermostat*	8-SOIC	2.03	1.64	1.48
LM56CIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.53	1.95	1.77
LM56CIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP	1047.00/1,000		
LM57BISD-5CT-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	3.57	2.92	2.62
LM57BISD-5TR-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	1666.00/1,000		
LM57BISD-10CT-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	3.57	2.92	2.62
LM57BISD-10TR-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	1666.00/1,000		
LM57CISD-5CT-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	2.96	2.29	2.08
LM57CISD-5TR-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	1227.00/1,000		
LM57CISD-10CT-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	2.96	2.29	2.08
LM57CISD-10TR-ND	Programmable Temp. Switch with Analog Sensor* ***NEW!***	8-LLP	1227.00/1,000		
LM63CIMA-ND	Digital Temp. Sensor with Integrated Fan Control*	8-SOIC	3.09	2.50	2.25
LM63DIMA-ND	Digital Temp. Sensor with Integrated Fan Control*	8-SOIC	2.95	2.38	2.14
LM70CILD-3CT-ND	10-Bit plus Sign Digital Temperature Sensor	8-LLP	2.49	1.93	1.75
LM70CILD-3TR-ND	10-Bit plus Sign Digital Temperature Sensor	8-LLP	1032.00/1,000		

** RoHS Compliant*

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(Continued)

National Semiconductor DigiReel® *(Cont.)* THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM70CIMM-3CT-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP	2.49	1.93	1.75
LM70CIMM-3TR-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP	1032.00/1,000		
LM70CIMM-5CT-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor*	8-MSOP	2.49	1.93	1.75
LM70CIMM-5TR-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor*	8-MSOP	1032.00/1,000		
LM70CIMMX-3CT-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP	2.49	1.93	1.75
LM70CIMMX-3TR-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP	3363.50/3,500		
LM71CIMFCT-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	SOT-23-5	2.49	1.92	1.74
LM71CIMFTR-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	SOT-23-5	1030.00/1,000		
LM71CISDCT-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	6-LLP	2.49	1.92	1.74
LM71CISDTR-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	6-LLP	1030.00/1,000		
LM73CIMK-0CT-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	6-TSOT	1.76	1.37	1.24
LM73CIMK-0TR-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	6-TSOT	731.00/1,000		
LM73CIMK-1CT-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	TSOT-23-6	1.76	1.37	1.24
LM73CIMK-1TR-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	TSOT-23-6	731.00/1,000		
LM87CIMT-ND	Serial Interface System Hardware Monitor*	24-TSSOP	6.64	5.34	4.86
LM92CIM-ND	Temp. Sensor and Thermal Window Comparator*	8-SOIC	4.51	3.63	3.31
LM94CIMT-ND	Hardware Monitor with PI Loop Fan Control*	56-TSSOP	12.96	10.90	10.02
LM94021BIMGCT-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	1.56	1.23	1.11
LM94021BIMGTR-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	615.00/1,000		
LM94022BIMGCT-ND	1.5V, Multi-Gain Analog Temp. Sensor, Class-AB*	SC70-5	1.27	1.00	.90
LM94022BIMGTR-ND	1.5V, Multi-Gain Analog Temp. Sensor, Class-AB*	SC70-5	500.00/1,000		
LM94022QBIMGCT-ND	1.5V, Multi-Gain Analog Temp. Sensor, Class-AB*	SC70-5	1.81	1.43	1.29
LM94022QBIMGTR-ND	1.5V, Multi-Gain Analog Temp. Sensor, Class-AB*	SC70-5	713.00/1,000		
LM94023BITMECT-ND	1.5V, Dual-Gain Analog Temp. Sensor*	4-µSMD	1.27	1.00	.90
LM94023BITMETR-ND	1.5V, Dual-Gain Analog Temp. Sensor*	4-µSMD	179.00/250		
LM95071CIMFCT-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor*	SOT-23-5	2.33	1.80	1.63
LM95071CIMFTR-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor*	SOT-23-5	964.00/1,000		
LM95213CISDCT-ND	2-Diode Input and Local Digital Temp. Sensor*	14-LLP	3.03	2.34	2.12
LM95213CISDTR-ND	2-Diode Input and Local Digital Temp. Sensor*	14-LLP	1254.00/1,000		
LM95214CISDCT-ND	Quad Remote Diode and Local Temp. Sensor*	14-LLP	2.99	2.31	2.10
LM95214CISDTR-ND	Quad Remote Diode and Local Temp. Sensor*	14-LLP	1240.00/1,000		
LM95233CISDCT-ND	Dual Remote Diode Temperature Sensor*	14-LLP	3.33	2.57	2.33
LM95233CISDTR-ND	Dual Remote Diode Temperature Sensor*	14-LLP	1378.00/1,000		
LM95234CISDCT-ND	Quad Remote Diode Temperature Sensor*	14-LLP	3.09	2.53	2.27
LM95234CISDTR-ND	Quad Remote Diode Temperature Sensor*	14-LLP	1442.00/1,000		
LM95235CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.59	2.01	1.82
LM95235CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1074.00/1,000		
LM95235DIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.84	3.14	2.82
LM95235DIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1792.00/1,000		
LM95235EIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.57	2.92	2.62
LM95235EIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1666.00/1,000		
LM95235QEIMMCT-ND	Precision Dual Remote Diode Temp. Sensor*	8-MSOP	4.29	3.51	3.15
LM95235QEIMMTR-ND	Precision Dual Remote Diode Temp. Sensor*	8-MSOP	2002.00/1,000		
LM95241CIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.59	2.01	1.82
LM95241CIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1074.00/1,000		
LM95241CIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.59	2.01	1.82
LM95241CIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1074.00/1,000		
LM95241CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.59	2.01	1.82
LM95241CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1074.00/1,000		
LM96000CIMT-ND	Hardware Monitor with Integrated Fan Control*	24-TSSOP	5.18	4.17	3.80
LM96080CIM-ND	Hardware Monitor with 2-Wire Serial Interface* ***NEW!***	24-TSSOP	6.90	5.66	5.11
LM96163CISDCT-ND	Remote/Local Digital Temperature Sensor*	10-LLP	3.99	3.26	2.93
LM96163CISDTR-ND	Remote/Local Digital Temperature Sensor*	10-LLP	1862.00/1,000		
LM96194CISQCT-ND	TruTherm™ Hardware Monitor w/PI Fan Control*	48-LLP	10.07	8.36	7.60
LM96194CISQTR-ND	TruTherm™ Hardware Monitor w/PI Fan Control*	48-LLP	1615.00/250		

Microsemi INTEGRATED PRODUCTS APPLICATION SPECIFIC INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LX1554CM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM*	8-Dip	3.60	3.24	2.70
LX1562IM-ND	13.1V, Second Generation Power Factor Controller	8-Dip	3.60	3.24	2.70
LX1563IDM-ND	9.8V, Second Generation Power Factor Controller*	8-SOIC	2.19	2.00	1.86
LX1671CLQ-ND	Multiple Output LoadSHARE™ PWM*	38-MLPQ	9.88	8.90	7.41
LX1672-03CPW-ND	Multiple Output LoadSHARE™ PWM*	28-TSSOP	7.80	7.02	5.85
LX1672-05CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	7.80	7.02	5.85
LX1676CPW-ND	Mobile AMD Athlon™ VRM Controller*	38-TSSOP	9.10	7.80	6.18
LX1688CPW-ND	Multiple Lamp CCFL Controller*	24-TSSOP	7.92	7.13	5.94
LX1688IPW-ND	Multiple Lamp CCFL Controller*	24-TSSOP	10.50	9.00	7.13
LX1741CDU-ND	High Efficiency High Voltage Boost Controller*	8-MSOP	3.20	2.88	2.40
LX1742CDU-ND	High Efficiency High Voltage Boost Controller*	8-MSOP	3.92	3.53	2.94
LX2201CLQ-ND	USB Li-Ion Battery Charger*	20-MLP	7.40	6.66	5.55
LX2206CT-ND	Dual Level Li-Ion Battery Charger*	10-MLPD	2.68	2.42	2.01
LX2206TR-ND	Dual Level Li-Ion Battery Charger*	10-MLPD	4020.00/3,000		
LX5250CPW-ND	9-Line Multimode SCSI Terminator	28-TSSOP	8.00	7.20	6.00
LX5251CPW-ND	9-Line Multimode SCSI Terminator*	24-TSSOP	8.00	7.20	6.00
LX5255CPW-ND	9-Line LVD SCSI Terminator	24-TSSOP	5.60	4.80	3.80
LX5261CDP-ND	27-Line LVD SCSI Source/Sink Regulator	16-SOIC	8.00	7.20	6.00
LX6431ACDM-ND	Precision Programmable Reference*	8-SOIC	1.56	1.41	1.17
LX9501G-ND	Input-Connector Cable Assembly*	—	14.70	12.60	9.98
SG2842DM-ND	Current Mode PWM Controller*	8-SOIC	6.60	5.94	4.95
SG3524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	8.00	7.20	6.00
SG3543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	6.86	5.88	4.66
SG3842DM-ND	Current Mode PWM Controller*	8-SOIC	2.80	2.52	2.10
UC2842AD-ND	Current Mode PWM Controller*	14-SOIC	7.00	6.30	5.25

Microsemi INTEGRATED PRODUCTS DigiReel® LIGHT APPLICATIONS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LX1970IDU-ND	Visible Light Sensor	8-MSOP	4.80	4.32	3.60
LX1970MINI EVAL-ND	Mini Control Board	—	59.85	—	—
LX1971IDU-ND	Wide Range Visible Light Sensor	8-MSOP	8.60	7.74	6.45
LX1972IBCCT-ND	Ambient Light Detector	1206	2.96	2.67	2.22
LX1972IBCTR-ND	Ambient Light Detector	1206	4440.00/3,000		
LX1973AIDU-ND	Automotive Light Sensor	8-MSOP	8.76	7.89	6.57
LX1990ILM-ND	Dual Programmable LED Current Sink	6-MLP	2.40	2.16	1.80
LX1991ILQ-ND	Six Output Programmable LED Current Sink	16-MLPQ	5.00	4.50	3.75
LX1992CLM-ND	High Efficiency LED Driver	8-MLP	2.84	2.56	2.13
LX1993CDU-ND	High Efficiency LED Driver	8-MSOP	3.92	3.53	2.94
LX1995-1-CSG-ND	Miniature LED Driver	5-TSOT	3.32	2.99	2.49
LXMG1960-28-01-ND	6-String LED Backlight Boost Driver Module ***NEW!***	—	22.89	—	—
LXMG1960-28-03-ND	6-String LED Backlight Boost Driver Module ***NEW!***	—	22.89	—	—

Microsemi INTEGRATED PRODUCTS PROTECTION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LX7001CLP-ND	Transient Immune Undervoltage Sensing Circuit*	TO-92	1.80	1.62	1.35
LX7001ILP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	2.00	1.80	1.50
LX7201-15ISF-ND	EMI Filter/ESD Protection for Down Stream USB Ports	SOT-23-6	1.88	1.70	1.41
LX7202-15ISF-ND	EMI Filter/ESD Protection for Up Stream USB Ports	SOT-23-6	1.88	1.70	1.41
LX7203-15ISM-ND	EMI Filter/ESD Protection for Up Stream USB Ports*	SC70-6L	2.44	2.20	1.83
LX7203-22ISM-ND	EMI Filter/ESD Protection for Up Stream USB Ports*	SC70-6L	2.44	2.20	1.83
MC33164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	2.20	1.98	1.65
MC34064DM-ND	Undervoltage Sensing Circuit*	8-SOIC	2.00	1.80	1.50
MC34164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	1.80	1.62	1.35

Microsemi INTEGRATED PRODUCTS DigiReel® VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LX432CSC-ND	Low Voltage Adj. Precision Shunt Regulator*	SOT-23	1.04	.94	.78
LX432ISC-ND	Low Voltage Adj. Precision Shunt Regulator*	SOT-23	2.40	2.16	1.80
LX6431ACLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	1.48	1.34	1.11
LX6431AIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.92	1.73	1.44
LX6431AILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	TO-92	1.84	1.66	1.38
LX6431BCDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.80	1.62	1.35
LX6431BIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	2.20	1.98	1.65
LX6431BILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	2.12	1.91	1.59
LX6431CDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.28	1.16	.96
LX6431CLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	TO-92	1.20	1.08	.90
LX6431IDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.56	1.41	1.17
LX6431ILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	1.48	1.34	1.11
LX8117-00CST-ND	Adj., 0.8A LDO Positive Regulator	SOT-223	3.40	3.06	2.55
LX8117-25CST-ND	2.5V, 0.8A LDO Positive Regulator	SOT-223	3.40	3.06	2.55
LX8117-28CST-ND	2.85V, 0.8A LDO Positive Regulator*	SOT-223	3.40	3.06	2.55
LX8117-33CDD-ND	3.3V, 0.8A LDO Positive Regulator*	TO-263	5.00	4.50	3.75
LX8117-33CDT-ND	3.3V, 0.8A LDO Positive Regulator*	D-PAK	3.40	3.06	2.55
LX8117-33CST-ND	3.3V, 0.8A LDO Positive Regulator*	SOT-223	3.40	3.06	2.55
LX8117A-00CDD-ND	Adj., 1A LDO Positive Regulator*	TO-263	5.00	4.50	3.75
LX8117A-00CST-ND	Adj., 1A LDO Positive Regulator*	SOT-223	3.40	3.06	2.55
LX8117A-25CST-ND	2.5V, 1A LDO Positive Regulator	SOT-223	3.40	3.06	2.55
LX8117A-28CDT-ND	2.85V, 1A LDO Positive Regulator*	D-Pak	3.40	3.06	2.55
LX8117A-28CST-ND	2.85V, 1A LDO Positive Regulator	SOT-223	3.40	3.06	2.55
LX8117A-33CST-ND	3.3V, 1A LDO Positive Regulator*	SOT-223	3.40	3.06	2.55
LX8117B-00CDD-ND	Adj., 1.2A LDO Positive Regulator*	TO-263	5.40	4.86	4.05
LX8117B-00CST-ND	Adj., 1.2A LDO Positive Regulator	SOT-223	3.80	3.42	2.85
LX8211-00ISECT-ND	Adj., 150mA CMOS LDO Regulator*	SOT-23-5	1.12	1.01	.84
LX8211-00ISETR-ND	Adj., 150mA CMOS LDO Regulator*	SOT-23-5	1680.00/3,000		
LX8211-25ISE-ND	2.5V, 150mA CMOS LDO Regulator*	SOT-23-5	1.12	1.01	.84
LX8211-30ISE-ND	3V, 150mA CMOS LDO Regulator*	SOT-23-5	1.12	1.01	.84
LX8213-00ISECT-ND	Adj., 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	.56	.51	.42
LX8213-00ISETR-ND	Adj., 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	840.00/3,000		
LX8213-12ISECT-ND	1.2V, 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	.56	.51	.42
LX8213-12ISETR-ND	1.2V, 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	840.00/3,000		
LX8213-33ISECT-ND	3.3V, 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	.56	.51	.42
LX8213-33ISETR-ND	3.3V, 300mA CMOS LDO Regulator* ***NEW!***	SOT-23-5	840.00/3,000		
LX8221-DIDU-ND	2.7V/Adj., Dual 150mA CMOS LDO Regulator*	10-MSOP	5.20	4.68	3.90
LX8221-GIDU-ND	3V/Adj., Dual 150mA CMOS LDO Regulator*	10-MSOP	5.20	4.68	3.90
LX8384-00CDD-ND	Adj., 5A LDO Positive Regulator*	TO-263	9.00	8.10	6.75
LX8580A-00CDD-ND	Adj., 7.5A LDO Positive Regulator	TO-263-5	2.60	2.34	1.95
LX8585-15CDD-ND	1.5V, 4.6A LDO Positive Regulator*	TO-263	7.00	6.00	4.75
SG117AK-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-3	20.72	17.76	14.06
SG117AT-ND	0.1A, Three Terminal Adj. Voltage Regulator	TO-39	18.62	15.96	12.64
SG117K-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-3	16.80	14.40	11.40
SG117T-ND	0.1A, Three Terminal Adj. Voltage Regulator	TO-39	14.00	12.00	9.50
SG137AT-ND	1.5A Negative Adjustable Regulator	TO-39	25.90	22.20	17.58
SG137T-ND	1.5A Negative Adjustable Regulator	TO-39	12.74	10.92	8.65
SG1524BJ-ND	Regulating Pulse Width Modulator	16-Dip	12.60	10.80	8.55
SG1524J-ND	Regulating Pulse Width Modulator	16-Dip	12.60	10.80	8.55
SG1525AJ-ND	Regulating Pulse Width Modulator	16-Dip	14.00	12.00	9.50
SG1526BJ-ND	Regulating Pulse Width Modulator	18-Dip	20.44	17.52	13.87
SG1526J-ND	Regulating Pulse Width Modulator	18-Dip	17.08	14.64	11.59
SG1825CJ-ND	High Speed Current Mode PWM	16-Dip	23.00	19.00	16.00
SG1842Y-ND	Current Mode PWM Controller	8-Dip	11.20	9.60	7.60
SG1843Y-ND	Current Mode PWM Controller	8-Dip	11.20	9.60	7.60
SG1844Y-ND	Current Mode PWM Controller	8-Dip	11.20	9.60	7.60
SG1845Y-ND	Current Mode PWM Controller	8-Dip	11.20	9.60	7.60
SG1846J-ND	Current Mode PWM Controller	16-Dip	15.40	13.20	10.45
SG2524BN-ND	Regulating Pulse Width Modulator*	16-Dip	7.20	6.48	5.40
SG2524D-ND	Regulating Pulse Width Modulator*	16-SOIC	6.40	5.76	4.80
SG2524N-ND	Regulating Pulse Width Modulator*	16-Dip	6.80	6.12	5.10
SG2525ADW-ND	Regulating Pulse Width Modulator*	16-SOIC	8.40	7.20	5.70
SG2525AN-ND	Regulating Pulse Width Modulator*	16-Dip	9.10	7.80	6.18
SG2526BDW-ND	Regulating Pulse Width Modulator*	18-SOIC	12.32	10.56	8.36
SG2526BN-ND	Regulating Pulse Width Modulator	18-Dip	11.90	10.20	8.08
SG2526DW-ND	Regulating Pulse Width Modulator	18-SOIC	17.50	15.00	11.88
SG2543N-ND	Power Supply Output Supervisory Circuit	16-Dip	9.80	8.40	6.65
SG2842M-ND	Current Mode PWM Controller	8-Dip	6.60	5.94	4.95
SG2843DM-ND	Current Mode PWM Controller	8-SOIC	6.60	5.94	4.95
SG2843M-ND	Current Mode PWM Controller	8-Dip	6.60	5.94	4.95
SG2844DM-ND	Current Mode PWM Controller	8-SOIC	6.60	5.94	4.95
SG2844M-ND	Current Mode PWM Controller	8-Dip	6.60	5.94	4.95
SG2845DM-ND	Current Mode PWM Controller	8-SOIC	6.60	5.94	4.95
SG2846DW-ND	Current Mode PWM Controller	16-SOIC	8.96	7.68	6.08
SG2846N-ND	Current Mode PWM Controller	16-Dip	8.68	7.44	5.89
SG3524D-ND	Regulating Pulse Width Modulator	16-SOIC	3.20	2.88	2.40
SG3524N-ND	Regulating Pulse Width Modulator	16-Dip	2.00	1.80	1.50
SG3525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	3.60	3.24	2.70
SG3525AN-ND	Regulating Pulse Width Modulator	16-Dip	3.20	2.88	2.40
SG3526DW-ND	Regulating Pulse Width Modulator	18-SOIC	7.20	6.48	5.40
SG3526N-ND	Regulating Pulse Width Modulator	18-Dip	6.80	6.12	5.10
SG3543N-ND	Power Supply Output Supervisory Circuit	16-Dip	9.00	8.10	6.75
SG3842M-ND	Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
SG3843DM-ND	Current Mode PWM Controller	8-SOIC	2.80	2.52	2.10
SG3843M-ND	Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
SG3844DM-ND	Current Mode PWM Controller	8-SOIC	2.80	2.52	2.10
SG3844M-ND	Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
SG3845DM-ND	Current Mode PWM Controller	8-SOIC	2.80	2.52	2.10
SG3845M-ND	Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
SG3846DW-ND	Current Mode PWM Controller	16-SOIC	7.20	6.48	5.40

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Microsemi INTEGRATED PRODUCTS Digi-Reel® (Cont.) VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SG7805AK-ND	5V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7805AT-ND	5V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7805K-ND	5V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7805T-ND	5V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7812AK-ND	12V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7812AT-ND	12V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7812K-ND	12V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7812T-ND	12V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7815AK-ND	15V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7815AT-ND	15V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7815K-ND	15V Positive Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7815T-ND	15V Positive Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7905AK-ND	5V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7905AT-ND	5V Negative Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7905K-ND	5V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7905T-ND	5V Negative Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7912AK-ND	12V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7912AT-ND	12V Negative Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7912K-ND	12V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7912T-ND	12V Negative Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7915AK-ND	15V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
SG7915AT-ND	15V Negative Fixed Voltage Regulator	TO-39	14.00	12.00	9.50
SG7915K-ND	15V Negative Fixed Voltage Regulator	TO-3	16.80	14.40	11.40
TL431ACDM-ND	Precision Programmable Reference	8-SOIC	1.20	1.08	.90
TL431AIDM-ND	Precision Programmable Reference	8-SOIC	1.48	1.34	1.11
TL431AILP-ND	Precision Programmable Reference	TO-92	1.32	1.19	.99
TL431BCDM-ND	Precision Programmable Reference	8-SOIC	2.52	2.27	1.89
TL431BIDM-ND	Precision Programmable Reference	8-SOIC	1.77	1.62	1.51
TL431IDM-ND	Precision Programmable Reference	8-SOIC	1.24	1.12	.93
UC2842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	7.00	6.30	5.25
UC2842AM-ND	16V, Current Mode PWM Controller	8-Dip	6.80	6.12	5.10
UC2843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	7.00	6.30	5.25
UC2844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	7.00	6.30	5.25
UC2845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	7.00	6.30	5.25
UC2845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	7.00	6.30	5.25
UC3842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	3.00	2.70	2.25
UC3842AM-ND	16V, Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
UC3843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	3.00	2.70	2.25
UC3843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
UC3844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	3.00	2.70	2.25
UC3844AM-ND	16V, Current Mode PWM Controller	8-Dip	2.40	2.16	1.80
UC3845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	2.80	2.52	2.10
UC3845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	3.00	2.70	2.25
UC3845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	2.40	2.16	1.80

LINEAR TECHNOLOGY Digi-Reel® AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Op Amps				
LF398S8#PBF-ND	Precision Sample and Hold Amp*	8-SOIC	3.25	2.35	1.74
LT1001ACN8#PBF-ND	Single Precision Op Amp*	8-Dip	6.50	4.32	3.40
LT1001CN8#PBF-ND	Single Precision Op Amp*	8-Dip	3.30	2.20	1.90
LT1001CS8#PBF-ND	Single Precision Op Amp*	8-SOIC	4.10	2.73	2.15
LT1002CN#PBF-ND	Dual Matched Precision Op Amp*	14-Dip	5.70	3.79	2.95
LT1006CN8#PBF-ND	5V Single Precision Op Amp*	8-Dip	3.10	2.06	1.60
LT1006S8#PBF-ND	5V Single Precision Op Amp*	8-SOIC	3.80	2.53	1.95
LT1007ACN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-Dip	8.75	5.83	5.00
LT1007CN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-Dip	3.63	2.42	1.95
LT1007CS8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-SOIC	4.13	2.75	2.15
LT1007IS8#PBF-ND	Single Low Noise, HS, Prec. Op Amp, Ind. Temp.*	8-SOIC	5.63	3.75	3.10
LT1008CN8#PBF-ND	Precision Low Noise Op Amp*	8-Dip	5.50	3.67	3.10
LT1010CN8#PBF-ND	High-Speed 150mA Power Buffer*	8-Dip	4.80	3.19	2.50
LT1010CT#PBF-ND	High-Speed 150mA Power Buffer*	TO-220-5	5.50	3.66	2.85
LT1012ACN8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-Dip	7.70	5.12	3.95
LT1012ACS8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-SOIC	7.70	5.12	4.19
LT1012S8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-SOIC	6.60	4.39	3.45
LT1013ACN8#PBF-ND	Dual Precision Op Amp*	8-Dip	7.60	5.05	3.95
LT1013CN8#PBF-ND	Dual Precision Op Amp, Vos=300µV*	8-Dip	4.60	3.06	2.40
LT1013DN8#PBF-ND	Dual Precision Op Amp, Vos=800µV*	8-Dip	3.80	2.53	1.95
LT1013DS8#PBF-ND	Dual Precision Op Amp, Vos=800µV*	8-SOIC	4.00	2.67	2.30
LT1014CN#PBF-ND	Quad Precision Op Amp*	14-Dip	10.30	6.84	5.35
LT1014DN#PBF-ND	Quad Precision Op Amp*	14-Dip	6.90	4.59	3.60
LT1014DSW#PBF-ND	Quad Precision Op Amp*	16-SOIC	8.00	5.32	4.15
LT1014ISW#PBF-ND	Quad Precision Op Amp*	16-SOIC	10.40	6.91	5.40
LT1022CN8-ND	High-Speed Precision JFET Op Amp	8-Dip	5.00	3.33	2.95
LT1022CN8#PBF-ND	High-Speed Precision JFET Op Amp*	8-Dip	5.00	3.33	2.95
LT1028ACN8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-Dip	14.40	9.57	7.55
LT1028CN8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-Dip	9.50	6.31	4.95
LT1028CS8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-SOIC	9.50	6.31	4.95
LT1037CN8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp*	8-Dip	3.63	2.42	1.95
LT1037CS8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1037CS8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp*	8-SOIC	4.13	2.75	2.15
LT1055CN8#PBF-ND	Precision High-Speed JFET Op Amp*	8-Dip	3.80	2.53	1.95
LT1056CN8#PBF-ND	Precision High-Speed JFET Op Amp*	8-Dip	3.80	2.53	1.95
LT1056S8#PBF-ND	Precision High-Speed JFET Op Amp*	8-SOIC	4.70	3.13	2.50
LT1057ACN8#PBF-ND	Dual Precision JFET Op Amp, 450µV*	8-Dip	9.50	6.31	4.95
LT1057CN8#PBF-ND	Dual Precision JFET Op Amp, 600µV*	8-Dip	4.90	3.26	2.55
LT1058ACN#PBF-ND	Quad Precision JFET Op Amp*	14-Dip	18.30	12.16	9.55
LT1058CN#PBF-ND	Quad Precision JFET Op Amp*	14-Dip	8.40	5.58	4.35
LT1058ISW#PBF-ND	Quad Precision JFET Op Amp*	16-SOIC	19.90	13.22	10.30
LT1058SW#PBF-ND	Quad Precision JFET Op Amp*	16-SOIC	9.60	6.38	5.00
LT1077ACN8#PBF-ND	Micropower Precision Single Op Amp*	8-Dip	6.20	4.12	3.20
LT1077CN8#PBF-ND	Micropower Precision Single Op Amp*	8-Dip	3.20	2.13	1.65
LT1077IS8#PBF-ND	Micropower Precision Single Op Amp*	8-SOIC	4.70	3.13	2.40
LT1077S8#PBF-ND	Micropower Precision Single Op Amp*	8-SOIC	3.90	2.59	2.05
LT1078ACN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	9.90	6.58	5.15
LT1078CN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	5.40	3.59	2.80
LT1078IN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	7.20	4.79	3.75
LT1078IS8#PBF-ND	Micropower Precision Dual Op Amp*	8-SOIC	9.30	6.18	4.85
LT1078S8#PBF-ND	Micropower Precision Dual Op Amp*	8-SOIC	7.00	4.65	3.65

LINEAR TECHNOLOGY Digi-Reel® (Cont.) AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1079ACN#PBF-ND	Micropower Precision Quad Op Amp*	14-Dip	12.50	8.30	6.50
LT1079CN#PBF-ND	Micropower Precision Quad Op Amp*	14-Dip	6.80	4.52	3.50
LT1079IN#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.*	14-Dip	8.50	5.65	4.45
LT1079ISW#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.*	16-SOIC	10.90	7.24	5.70
LT1079SW#PBF-ND	Micropower Precision Quad Op Amp*	16-SOIC	8.80	5.85	4.55
LT1097CN8#PBF-ND	Low Cost, Low Power Precision Op Amp*	8-Dip	3.50	2.33	1.80
LT1097S8#PBF-ND	Low Cost, Low Power Precision Op Amp*	8-SOIC	3.80	2.53	1.95
LT1112ACN8#PBF-ND	Dual Low Power Precision Op Amp*	8-Dip	6.80	4.52	3.50
LT1112CN8#PBF-ND	Dual Low Power Precision Op Amp*	8-Dip	4.70	3.13	2.45
LT1112IS8#PBF-ND	Dual Low Power Precision Op Amp*	8-SOIC	5.50	3.66	3.00
LT1112S8#PBF-ND	Dual Low Power Precision Op Amp*	8-SOIC	5.10	3.39	2.65
LT1113CN8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp*	8-Dip	6.00	4.00	3.25
LT1113CS8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp*	8-SOIC	6.50	4.33	3.55
LT1114CN#PBF-ND	Quad Low Power Precision Op Amp*	14-Dip	8.50	5.67	4.50
LT1114S#PBF-ND	Quad Low Power Precision Op Amp*	16-SOIC	8.88	5.92	4.75
LT1115CN8#PBF-ND	Ultra Low Noise Audio Op Amp*	8-Dip	5.63	3.74	2.95
LT1122CS8#PBF-ND	Fast Settling JFET Input Op Amp*	8-SOIC	6.20	4.12	3.25
LT1122DCN8#PBF-ND	Fast Settling JFET Input Op Amp*	8-Dip	4.90	3.26	2.50
LT1122DS8#PBF-ND	Fast Settling JFET Input Op Amp*	8-SOIC	5.30	3.52	2.70
LT1124CN8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp*	8-Dip	7.00	4.65	3.65
LT1124CS8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp*	8-SOIC	7.40	4.92	3.85
LT1125CN#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp*	14-Dip	11.40	7.57	5.95
LT1125CSW#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp*	16-SOIC	12.40	8.24	6.50
LT1126CN8#PBF-ND	Dual, Decompensated, Low Noise, HS Op Amp*	8-Dip	6.38	4.25	3.65
LT1126CS8#PBF-ND	Dual, Decompensated, Low Noise, HS Op Amp*	8-SOIC	6.75	4.50	3.85
LT1127CSW-ND	Quad, Decompensated, Low Noise, HS Op Amp	16-SOIC	11.50	7.67	6.50
LT1127CSW#PBF-ND	Quad, Decompensated, Low Noise, HS Op Amp*	16-SOIC	11.50	7.67	6.50
LT1128CN8#PBF-ND	Single, Low Noise, High-Speed Op Amp*	8-Dip	9.50	6.31	4.95
LT1128CS8#PBF-ND	Single, Low Noise, High-Speed Op Amp*	8-SOIC	9.50	6.31	4.95
LT1169CN8#PBF-ND	Dual Low Noise JFET Op Amp*	8-Dip	7.25	4.83	3.95
LT1169CS8#PBF-ND	Dual Low Noise JFET Op Amp*	8-SOIC	7.75	5.15	4.25
LT1178CN8-ND	Dual Micropower Precision Op Amp	8-Dip	5.50	3.67	3.00
LT1178CN8#PBF-ND	Dual Micropower Precision Op Amp*	8-Dip	5.50	3.67	3.00
LT1178IN8#PBF-ND	Dual Micropower Precision Op Amp, Ind. Temp.*	8-Dip	6.88	4.58	3.95
LT1178S8#PBF-ND	Dual Micropower Precision Op Amp*	8-SOIC	7.00	4.65	3.85
LT1179ACN-ND	Quad Micropower Precision Op Amp	14-Dip	12.38	8.25	6.90
LT1179CN#PBF-ND	Quad Micropower Precision Op Amp*	14-Dip	6.88	4.58	3.90
LT1179SW#PBF-ND	Quad Micropower Precision Op Amp*	16-SOIC	8.75	5.83	5.00
LT1191CS8-ND	Single, Ultra High-Speed Video Op Amp	8-SOIC	3.75	2.50	1.95
LT1191CS8#PBF-ND	Single, Ultra High-Speed Video Op Amp*	8-SOIC	3.75	2.50	1.95
LT1206CN8#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	8-Dip	6.25	4.17	3.45
LT1206CR#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	7-DD	8.38	5.57	4.45
LT1206CS8#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	8-SOIC	7.25	4.83	3.95
LT1206CT7#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	TO-220-7	8.38	5.57	4.45
LT1207CS#PBF-ND	Dual 250mA Out, 60MHz Current Feedback Amp*	16-SOIC	12.88	8.60	7.15
LT1208CS8#PBF-ND	Dual, High-Speed Op Amp*	8-SOIC	9.60	6.38	5.00
LT1210CT7#PBF-ND	1.1A, 35MHz Current Feedback Amp*	TO-220-7	13.13	8.72	7.10
LT1211CN8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1211CS8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1211IS8#PBF-ND	14MHz, Single, Dual Prec. Op Amp, Ind. Temp.*	8-SOIC	7.50	4.98	3.75
LT1212CN#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp*	14-Dip	11.00	7.31	5.50
LT1212CS#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1212IS#PBF-ND	14MHz, Single, Quad Prec. Op Amp, Ind. Temp.*	16-SOIC	13.25	8.80	6.63
LT1213CN8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1213CS8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1214CN#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp*	14-Dip	11.00	7.31	5.50
LT1214CS#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1215CN8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1215CS8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1216CS#PBF-ND	23MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1218CS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	10.00	6.64	5.15
LT1218LCS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	6.13	4.07	3.30
LT1220CN8#PBF-ND	45MHz, High-Speed Op Amp*	8-Dip	6.80	4.52	3.50
LT1220CS8#PBF-ND	45MHz, High-Speed Op Amp*	8-SOIC	7.30	4.85	3.75
LT1221CN8-ND	150MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.35
LT1221CN8#PBF-ND	150MHz, High-Speed Op Amp*	8-Dip	6.25	4.17	3.35
LT1221CS8-ND	150MHz, High-Speed Op Amp	8-SOIC	6.88	4.57	3.50
LT1221CS8#PBF-ND	150MHz, High-Speed Op Amp*	8-SOIC	6.88	4.57	3.50
LT1222CN8-ND	500MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1222CN8#PBF-ND	500MHz, High-Speed Op Amp*	8-Dip	6.25	4.17	3.50
LT1222CS8#PBF-ND	500MHz, High-Speed Op Amp*	8-SOIC	6.88	4.58	3.75
LT1223CN8#PBF-ND	100MHz, Current Feedback Op Amp*	8-Dip	5.70	3.79	2.85
LT1223CS8#PBF-ND	100MHz, Current Feedback Op Amp*	8-SOIC	6.60	4.39	3.40
LT1224CS8-ND	45MHz, High-Speed Op Amp	8-SOIC	6.13	4.07	3.30
LT1224CS8#PBF-ND	45MHz, High-Speed Op Amp*	8-SOIC	6.13	4.07	3.30
LT1226CS8#PBF-ND	High-Speed, Low Noise Op Amp*	8-SOIC	6.13	4.08	3.40
LT1227CN8-ND	140MHz, Video Current Feedback Amp	8-Dip	4.63	3.08	2.45
LT1227CN8#PBF-ND	140MHz, Video Current Feedback Amp*	8-Dip	4.63	3.08	2.45
LT1227CS8#PBF-ND	140MHz, Video Current Feedback Amp*	8-SOIC	5.38	3.58	3.25
LT1228CS8#PBF-ND	100MHz, Current Feedback Amp with DC Gain*	8-SOIC	8.40	5.58	4.30
LT1229CN8#PBF-ND	100MHz, Dual Current Feedback Op Amp*	8-Dip	6.88	4.58	3.95
LT1229CS8#PBF-ND	100MHz, Dual Current Feedback Op Amp*	8-SOIC	7.75	5.17	4.30
LT1230CS-ND	100MHz, Quad Current Feedback Op Amp	14-SOIC	13.75	9.13	7.50
LT1230CS#PBF-ND	100MHz, Quad Current Feedback Op Amp*	14-SOIC	13.75	9.13	7.50
LT1252CN8#PBF-ND	Low Cost Single Video Amplifier*	8-Dip	3.25	2.17	1.75
LT1252CS8-ND	Low Cost Single Video Amplifier	8-SOIC	3.50	2.33	1.85
LT1252CS8#PBF-ND	Low Cost Single Video Amplifier*	8-SOIC	3.50	2.33	1.85
LT1253CS8#PBF-ND	Low Cost Dual Video Amplifier*	8-SOIC	4.88	3.25	2.60
LT1254CN#PBF-ND	Low Cost Quad Video Amplifier*	14-Dip	8.13	5.42	4.49
LT1254CS#PBF-ND	Low Cost Quad Video Amplifier*	14-SOIC	8.63	5.75	4.80
LT1256CS#PBF-ND	40MHz Video Fader/DC Gain Controlled Amp*	14-SOIC	11.63	7.75	6.30
LT1259CN-ND	Dual Current Feedback Amp with Shutdown	14-Dip	4.63	3.08	2.55
LT1259CS#PBF-ND	Dual Current Feedback Amp with Shutdown*	14-SOIC	4.75	3.16	2.65
LT1260CN-ND	Triple Current Feedback Amp with Shutdown	16-Dip	4.88	3.24	2.70
LT1260CN#PBF-ND	Triple Current Feedback Amp with Shutdown*	16-Dip	4.88	3.24	2.70
LT1260CS#PBF-ND	Triple Current Feedback Amp with Shutdown*	16-SOIC	5.13	3.41	2.85
LT1351CMS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp*	8-MSOP	5.13	3.41	2.80
LT1351CS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp*	8-SOIC	4.75	3.16	2.60

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1352CS8#PBF-ND	Dual, Very Low Power, HS, 3MHz Op Amp*	8-SOIC	8.20	5.45	4.25
LT1352IS8-ND	Dual, Very Low Power, HS, 3MHz Op Amp	8-SOIC	9.80	6.52	5.37
LT1352IS8#PBF-ND	Dual, Very Low Power, HS, 3MHz Op Amp*	8-SOIC	9.80	6.52	5.37
LT1353CS#PBF-ND	Quad, Very Low Power, HS, 3MHz Op Amp*	14-SOIC	12.63	8.40	6.95
LT1354CN8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp*	8-Dip	4.25	2.83	2.35
LT1354CS8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp*	8-SOIC	4.75	3.17	2.60
LT1355CN8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp*	8-Dip	7.60	5.05	3.95
LT1355CS8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp*	8-SOIC	8.20	5.45	4.25
LT1356CN#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp*	14-Dip	11.75	7.83	6.70
LT1356CS#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp*	16-SOIC	12.63	8.40	6.95
LT1357CN8#PBF-ND	Single, High-Speed, 25MHz Op Amp*	8-Dip	4.63	3.08	2.55
LT1357CS8#PBF-ND	Single, High-Speed, 25MHz Op Amp*	8-SOIC	5.13	3.42	2.80
LT1358CN8#PBF-ND	Dual, High-Speed, 25MHz Op Amp*	8-Dip	7.25	4.83	4.10
LT1358CS8#PBF-ND	Dual, High-Speed, 25MHz Op Amp*	8-SOIC	8.25	5.50	4.40
LT1359CN#PBF-ND	Quad, High-Speed, 25MHz Op Amp*	14-Dip	13.00	8.64	6.80
LT1359CS#PBF-ND	Quad, High Speed, 25MHz Op Amp*	16-SOIC	13.90	9.23	7.05
LT1360CN8#PBF-ND	Single, High-Speed, 50MHz Op Amp*	8-Dip	4.13	2.75	2.25
LT1360CS8#PBF-ND	Single, High-Speed, 50MHz Op Amp*	8-SOIC	4.63	3.08	2.50
LT1361CN8#PBF-ND	Dual, High-Speed, 50MHz Op Amp*	8-Dip	6.38	4.25	3.50
LT1361CS8#PBF-ND	Dual, High-Speed, 50MHz Op Amp*	8-SOIC	6.75	4.50	3.65
LT1362CN#PBF-ND	Quad, High-Speed, 50MHz Op Amp*	14-Dip	11.25	7.50	6.15
LT1362CS#PBF-ND	Quad, High-Speed, 50MHz Op Amp*	16-SOIC	11.75	7.83	6.45
LT1363CN8#PBF-ND	Single, High-Speed, 70MHz Op Amp*	8-Dip	4.50	3.00	2.45
LT1363CS8#PBF-ND	Single, High-Speed, 70MHz Op Amp*	8-SOIC	5.00	3.33	2.70
LT1364CN8#PBF-ND	Dual, High-Speed, 70MHz Op Amp*	8-Dip	6.88	4.58	3.80
LT1364CS8#PBF-ND	Dual, High-Speed, 70MHz Op Amp*	8-SOIC	7.25	4.82	3.95
LT1365CN#PBF-ND	Quad, High-Speed, 70MHz Op Amp*	14-Dip	12.13	8.08	6.65
LT1365CS#PBF-ND	Quad, High-Speed, 70MHz Op Amp*	16-SOIC	12.63	8.42	6.95
LT1366CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-Dip	7.00	4.65	3.60
LT1366CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	7.30	4.85	3.75
LT1367CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	11.50	7.65	6.35
LT1368CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.32	3.60
LT1368CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-Dip	6.50	4.32	3.60
LT1368CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	6.75	4.50	3.75
LT1369CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	11.50	7.65	6.35
LT1395CS5#TRMPBFCT-ND	Single 400MHz Current Feedback Amp*	SOT-23-5	2.49	2.23	2.01
LT1395CS5#TRMPBFTR-ND	Single 400MHz Current Feedback Amp*	SOT-23-5	560.00/500		
LT1395CS6#TRMCT-ND	Single 400MHz Current Feedback Amp	SOT-23-6	2.60	2.33	2.10
LT1395CS8#PBF-ND	Single 400MHz Current Feedback Amp*	8-SOIC	2.43	1.62	1.23
LT1399CS#PBF-ND	300MHz, Triple Current Feedback Amp*	16-SOIC	5.00	3.32	2.50
LT1399HVCS#PBF-ND	300MHz, Triple Current Feedback Amp*	16-SOIC	6.25	4.15	3.25
LT1413CN8#PBF-ND	5V Single Supply, Dual Precision Op Amp*	8-Dip	4.00	2.66	2.05
LT1413S8#PBF-ND	5V Single Supply, Dual Precision Op Amp*	8-SOIC	4.40	2.93	2.30
LT1457S8#PBF-ND	Dual Precision JFET Input Op Amp*	8-SOIC	4.75	3.17	2.55
LT1462ACS8#PBF-ND	Dual Micropower JFET Input Op Amp*	8-SOIC	9.00	5.98	4.95
LT1464ACS8#PBF-ND	Dual Micropower JFET Input Op Amp*	8-SOIC	9.00	5.98	4.95
LT1464CS8#PBF-ND	Dual Micropower JFET Input Op Amp*	8-SOIC	5.00	3.32	2.75
LT1465CS#PBF-ND	Quad Micropower JFET Input Op Amp*	14-SOIC	8.50	5.65	4.75
LT1466LCS8#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	8.25	5.50	4.40
LT1468CN8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-Dip	6.25	4.15	3.13
LT1468CS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-SOIC	6.25	4.15	3.13
LT1468IS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-SOIC	7.50	4.98	3.75
LT1469CS8#PBF-ND	90MHz, Dual HS, 16-Bit Accurate Op Amp*	8-SOIC	10.50	6.98	5.25
LT1469IDF-2#PBF-ND	200MHz, 16-Bit Dual Op Amp*	12-DFN	12.65	8.40	6.35
LT1490ACDD#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-DFN	4.75	3.39	2.79
LT1490ACMS8#PBF-ND	Dual Micropwr Rail-to-Rail In/Out Op Amp* ***NEW!***	8-MSOP	4.50	2.99	2.25
LT1490ACS8#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-SOIC	3.88	2.58	1.95
LT1490CN8#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-Dip	3.90	2.59	2.05
LT1491ACS#PBF-ND	Quad Micropower Rail-to-Rail In/Out Op Amp*	14-SOIC	6.38	4.24	3.25
LT1491AIS#PBF-ND	Quad Micropower Rail-to-Rail In/Out Op Amp*	14-SOIC	7.75	5.15	3.95
LT1492CN8-ND	Dual Low Power Single Supply Precision Op Amp	8-Dip	7.38	4.90	3.69
LT1492CN8#PBF-ND	Dual Low Power Single Supply Precision Op Amp*	8-Dip	7.38	4.90	3.69
LT1492CS8#PBF-ND	Dual Low Power Single Supply Precision Op Amp*	8-SOIC	7.50	4.98	3.75
LT1493CS#PBF-ND	Quad LP Single Supply Precision Op Amp*	16-SOIC	13.50	8.97	6.75
LT1494CMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-MSOP	3.63	2.41	1.90
LT1494CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-SOIC	3.38	2.25	1.80
LT1494IMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-MSOP	4.13	2.74	2.20
LT1494IN8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-Dip	3.88	2.58	2.10
LT1494IS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-SOIC	3.88	2.58	2.10
LT1495CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	5.38	3.57	3.10
LT1495IS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	6.25	4.15	3.55
LT1496CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	7.00	4.65	4.10
LT1496HS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	8.75	5.81	4.90
LT1496IN#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-Dip	8.00	5.32	4.60
LT1496IS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	8.25	5.48	4.70
LT1497CS8#PBF-ND	Dual Current Feedback Amp*	8-SOIC	6.25	4.15	3.45
LT1498CN8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-Dip	6.50	4.32	3.25
LT1498CS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	6.75	4.49	3.38
LT1498IS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	7.00	4.65	3.65
LT1499CS#PBF-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp*	14-SOIC	12.25	8.14	6.13
LT1620CS8#PBF-ND	Rail-to-Rail Current Sense Amp*	8-SOIC	3.38	2.57	2.12
LT1620IS8#PBF-ND	Rail-to-Rail Current Sense Amp, Ind. Temp*	8-SOIC	3.88	2.58	2.05
LT1630CN8#PBF-ND	30MHz, Dual R/R In/Out Precision Op Amp*	8-Dip	6.50	4.32	3.25
LT1630CS8#PBF-ND	30MHz, Dual R/R In/Out Precision Op Amp*	8-SOIC	6.75	4.49	3.38
LT1631CS-ND	30MHz, Quad R/R In/Out Precision Op Amp	14-SOIC	12.25	8.14	6.13
LT1631CS#PBF-ND	30MHz, Quad R/R In/Out Precision Op Amp*	14-SOIC	12.25	8.14	6.13
LT1632CN8#PBF-ND	45MHz, Dual R/R In/Out Precision Op Amp*	8-Dip	6.63	4.40	3.32
LT1632CS8#PBF-ND	45MHz, Dual R/R In/Out Precision Op Amp*	8-SOIC	6.88	4.57	3.44
LT1633CS#PBF-ND	45MHz, Quad R/R In/Out Precision Op Amp*	14-SOIC	12.38	8.22	6.19
LT1635CN8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference*	8-Dip	3.50	2.33	1.85
LT1635CS8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference*	8-SOIC	3.88	2.58	2.05
LT1636CMS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-MSOP	3.50	2.33	1.90
LT1636CN8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-Dip	2.88	1.91	1.50
LT1636CS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.00	2.00	1.55
LT1636IS8#PBF-ND	220kHz, Single MPU R/R I/O Op Amp, Ind. Temp.*	8-SOIC	3.50	2.33	1.80
LT1637CS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.00	2.00	1.55
LT1637HS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.50	2.33	1.85
LT1638CMS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-MSOP	4.60	3.06	2.40
LT1638CS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-SOIC	4.10	2.73	2.15
LT1638HS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-SOIC	5.30	3.52	2.70
LT1638IS8#PBF-ND	1.2MHz, Dual MPU R/R I/O Op Amp, Ind. Temp.*	8-SOIC	5.10	3.39	2.60
LT1639HS#PBF-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp*	8-SOIC	8.00	5.32	4.35
LT1639IS#PBF-ND	1.2MHz, Quad MPU R/R I/O Op Amp, Ind. Temp.*	8-SOIC	7.75	5.15	4.25
LT1672CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1672CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1672CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-SOIC	3.38	2.25	1.80
LT1672IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1673CS8-ND	Dual Rail-to-Rail In/Out Op Amp	8-SOIC	5.38	3.57	3.10
LT1673CS8#PBF-ND	Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	5.38	3.57	3.10
LT1674CN-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	6.75	4.49	3.95
LT1674CS-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65	4.10
LT1674IN-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-Dip	8.00	5.32	4.60
LT1674IS-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-SOIC	8.25	5.48	4.70
LT1677CS8#PBF-ND	Single, Low Noise Rail-to-Rail Precision Op Amp*	8-SOIC	4.50	2.99	2.30
LT1678CS8#PBF-ND	Dual Rail-to-Rail Precision Op Amp*	8-SOIC	5.00	3.57	2.94
LT1678IS8#PBF-ND	Dual Rail-to-Rail Precision Op Amp*	8-SOIC	5.38	3.84	3.16
LT1679CS#PBF-ND	Quad, Low Noise, R/R I/O Precision Op Amp*	14-SOIC	7.70	5.50	4.53
LT1722CS5#TRMCT-ND	Single 200MHz Low Noise Precision Op Amp	TSOT-23-5	2.18	1.95	1.76
LT1722CS5#TRMPBFCT-ND	Single 200MHz Low Noise Precision Op Amp*	TSOT-23-5	2.18	1.95	1.76
LT1722CS5#TRMPBFTR-ND	Single 200MHz Low Noise Precision Op Amp*	TSOT-23-5	545.00/500		
LT1722CS8-ND	Single 200MHz Low Noise Precision Op Amp	8-SOIC	1.80	1.28	1.06
LT1722CS8#PBF-ND	Single 200MHz Low Noise Prec. Op Amp*	8-SOIC	1.80	1.28	1.06
LT1722IS5#TRMPBFCT-ND	Single 200MHz LN Prec. Op Amp*	SOT-23-5	2.58	2.30	2.07
LT1722IS5#TRMPBFTR-ND	Single 200MHz LN Prec. Op Amp*	SOT-23-5	650.00/500		
LT1723CS8-ND	Dual 200MHz Low Noise Precision Op Amp	8-SOIC	2.38	1.70	1.40
LT1723IS8#PBF-ND	Dual 200MHz LN Precision Op Amp, Ind. Temp.*	8-SOIC	2.88	2.05	1.68
LT1739CUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	7.38	5.31	4.39
LT1782HS5#TRMCT-ND	Micropower Rail-to-Rail In/Out Op Amp	TSOT-23-5	3.75	3.35	3.02
LT1782HS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	3.75	3.35	3.02
LT1782HS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	860.00/500		
LT1782IS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	3.42	3.05	2.75
LT1782IS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	780.00/500		
LT1782IS6#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-6	3.86	3.45	3.11
LT1782IS6#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-6	862.50/500		
LT1783HS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	3.75	3.35	3.02
LT1783HS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	TSOT-23-5	860.00/500		
LT1783IS5#TRMPBFCT-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	TSOT-23-5	3.42	3.05	2.75
LT1783IS5#TRMPBFTR-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	TSOT-23-5	762.50/500		
LT1784CS6#TRMCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp	TSOT-23-6	2.77	2.48	2.23
LT1784CS6#TRMPBFCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp*	TSOT-23-6	2.77	2.48	2.23
LT1787HS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	5.63	3.74	2.90
LT1787HVCS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	6.13	4.07	3.07
LT1787HVIS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	7.25	4.82	3.63
LT1792CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-SOIC	4.75	3.16	2.45
LT1793CN8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-Dip	4.75	3.16	2.45
LT1793CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-SOIC	4.75	3.16	2.45
LT1800CS5#TRMPBFCT-ND	80MHz Low Power, R/R I/O Prec. Op Amp*	TSOT-23-5	3.33	2.98	2.68
LT1800CS5#TRMPBFTR-ND	80MHz Low Power, R/R I/O Prec. Op Amp*	TSOT-23-5	760.00/500		
LT1800CS8#PBF-ND	80MHz Low Power, R/R I/O Precision Op Amp*	8-SOIC	2.75	1.83	1.45
LT1801CMS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, I/O Prec. Op Amp*	8-MSOP	4.13	2.74	2.25
LT1801CS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, I/O Prec. Op Amp*	8-SOIC	3.88	2.58	2.15
LT1801IMS8#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R I/O Prec. Op Amp*	8-MSOP	4.88	3.24	2.70
LT1802CS#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R I/O Prec. Op Amp*	14-SOIC	7.00	4.65	3.85
LT1803CS5#TRMPBFCT-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp*	TSOT-23-5	3.19	2.85	2.57
LT1803CS5#TRMPBFTR-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp*	TSOT-23-5	760.00/500		
LT1804CDD#PBF-ND	Dual 85MHz, 100V/µs, R/R In/Out Op Amp*	8-DFN	4.38	2.91	2.35
LT1804CS8#PBF-ND	Dual 85MHz, 100V/µs, R/R In/Out Op Amp*	8-SOIC	3.88	2.58	2.15
LT1805CS#PBF-ND	Quad 85MHz, 100V/µs, R/R I/O Op Amp*	14-SOIC	7.00	4.65	3.85
LT1806CS6#TRMPBFCT-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	5.15	4.60	4.14
LT1806CS6#TRMPBFTR-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	1150.00/500		
LT1806CS8#PBF-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	8-SOIC	4.38	2.91	2.20
LT1806IS6#TRMPBFCT-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	5.57	4.98	4.48
LT1806IS6#TRMPBFTR-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	1243.75/500		
LT1806IS8#PBF-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp*	8-SOIC	4.75	3.16	2.40
LT1807CS8#PBF-ND	325MHz Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	6.88	4.57	3.60
LT1807IS8#PBF-ND	325MHz Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	7.25	4.82	3.75
LT1809CS6#TRMPBFCT-ND	180MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	4.45	3.98	3.58
LT1809CS6#TRMPBFTR-ND	180MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	993.75/500		
LT1809IS6#TRMPBFCT-ND	180MHz Single R/R In/Out Op Amp, Ind. Temp.*	SOT-23-6	4.87	4.35	3.92
LT1809IS6#TRMPBFTR-ND	180MHz Single R/R In/Out Op Amp, Ind. Temp.*	SOT-23-6	1087.50/500		
LT1809IS8#PBF-ND	180MHz Single R/R In/Out Op Amp Ind. Temp.*	8-SOIC	4.13	2.74	2.10
LT1810IS8#PBF-ND	180MHz Dual R/R In/Out Op Amp*	8-SOIC	6.00	3.99	3.05
LT1812CS5#TRMCT-ND	100MHz Low Power Op Amp with Shutdown	TSOT-23-5	2.21	1.98	1.78
LT1812CS6#TRMCT-ND	100MHz Low Power Op Amp with Shutdown	TSOT-23-6	2.32	2.08	1.87
LT1813CDD-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8#PBF-ND	Dual, High-Speed, Low Power Op Amp*	8-SOIC	2.30	1.64	1.35
LT1813HVCS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.75	1.96	1.61
LT1814CGN-ND	Quad, High-Speed, Low Power Op Amp	16-SSOP	3.90	2.78	2.29
LT1814CS#PBF-ND	Quad, High-Speed, Low Power Op Amp*	14-SOIC	3.90	2.78	2.29
LT1815IS5#TRMCT-ND	Single, High-Speed Op Amp, Ind. Temperature	TSOT-23-5	2.60	2.33	2.10
LT1816ACMS-ND	Dual, High-Speed Op Amp	10-MSOP	3.60	2.57	2.11
LT1817CGN-ND	Quad, High-Speed Op Amp	16-SSOP	4.10	2.92	2.41
LT1817CGN#PBF-ND	Quad, High-Speed Op Amp*	16-SSOP	4.10	2.92	2.41
LT1818CS5#TRMPBFCT-ND	400MHz, 9mA, Single Op Amp*	SOT-23-5	2.38	2.13	1.92
LT1818CS5#TRMPBFTR-ND	400MHz, 9mA, Single Op Amp*	SOT-23-5	590.00/500		
LT1818CS8#PBF-ND	400MHz, 9mA, Single Op Amp*	8-SOIC	1.90	1.35	1.11
LT1819CS8#PBF-ND	400MHz, 9mA, Dual Op Amp*	8-SOIC	3.20	2.28	1.88
LT1880CS5#TRMPBFCT-ND	Picoamp-In, Rail-to-Rail Output Op Amp*	TSOT-23-5	4.31	3.85	3.47
LT1880CS5#TRMPBFTR-ND	Picoamp-In, Rail-to-Rail Output Op Amp*	TSOT-23-5	1085.00/500		
LT1880IS5#TRMCT-ND	Picoamp-In, R/R Output Op Amp, Ind. Temp.	TSOT-23-5	5.15	4.60	4.14
LT1880IS5#TRMPBFCT-ND	Picoamp-In, R/R Output Op Amp, Ind. Temp.*	TSOT-23-5	5.15	4.60	4.14
LT1880IS5#TRMPBFTR-ND	Picoamp-In, R/R Output Op Amp, Ind. Temp.*	TSOT-23-5	1260.00/500		
LT1881AIS8#PBF-ND	Dual, Picoamp-In, Rail-to-Rail Output Op Amp*	8-SOIC	9.13	6.06	4.57
LT1882CS#PBF-ND	Quad, Picoamp-In, R/R Output Op Amp*	14-SOIC	10.38	6.89	5.20
LT1882MPS#PBF-ND	Quad, Picoamp-In, R/R Output Op Amp* ***NEW!***	14-SOIC	35.63	23.66	17.85
LT1884ACS8#PBF-ND	Dual, Picoamp-In, R/R Output Op Amp*	8-SOIC	7.88	5.23	3.95
LT1884CS8#PBF-ND	Dual, Picoamp-In, R/R Output Op Amp*	8-SOIC	5.75	3.82	2.90
LT1885IS#PBF-ND	Quad, Picoamp-In, R/R Output Op Amp*	14-SOIC	11.88	7.89	5.95
LT1970CFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit*	20-TSSOP	9.88	6.56	5.65
LT1970IFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit*	20-TSSOP	11.38	7.56	6.50
LT2078AIS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	12.30	8.17	6.40
LT2078CS8#PBF-ND	Dual Micropower Op Amp*	8-SOIC	7.00	4.65	3.65
LT2078IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	9.30	6.18	4.85
LT2079AIS#PBF-ND	Quad Micropower Op Amp, Ind. Temperature*	14-SOIC	19.75	13.12	10.95
LT2079CS#PBF-ND	Quad Micropower Op Amp*	14-SOIC	11.13	7.39	6.15
LT2079IS#PBF-ND	Quad Micropower Op Amp, Ind. Temperature*	14-SOIC	14.25	9.47	7.90
LT2178CS8#PBF-ND	Dual Micropower Op Amp*	8-SOIC	7.00	4.65	3.85
LT2178IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	7.75	5.15	4.05
LT2179ACS#PBF-ND	Quad Micropower Op Amp*	14-SOIC	18.00	11.96	9.95
LT6000CDCB#TRMPBFCT-ND	Single Precision R/R In/Out Op Amp*	6-DFN	1.90	1.70	1.53
LT6000IDCB#TRMPBFCT-ND	Single Precision R/R In/Out Op Amp*	6-DFN	2.18	1.95	1.76
LT6000IDCB#TRMPBFTR-ND	Single Precision R/R In/Out Op Amp*	6-DFN	540.00/500		

*** RoHS Compliant**

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT6001CDD#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	10-DFN	2.50	1.79	1.47
LT6003CDC#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	4-DFN	1.76	1.58	1.42
LT6003CS5#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	1.76	1.58	1.42
LT6003CS5#TRMPBFTR-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	450.00/500		
LT6003HDC#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	4-DFN	2.13	1.90	1.71
LT6003HS5#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	2.13	1.90	1.71
LT6003HS5#TRMPBFTR-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	540.00/500		
LT6003IDC#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	4-DFN	1.85	1.65	1.49
LT6003IDC#TRMPBFTR-ND	Precision Rail-to-Rail In/Out Op Amp*	4-DFN	470.00/500		
LT6003IS5#TRMPBFCT-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	1.85	1.65	1.49
LT6003IS5#TRMPBFTR-ND	Precision Rail-to-Rail In/Out Op Amp*	TSOT-23-5	470.00/500		
LT6004CDD#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	8-DFN	2.20	1.57	1.30
LT6004IDD#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	8-DFN	2.38	1.69	1.40
LT6004IMS8#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	8-MSOP	2.38	1.69	1.40
LT6005CDHC#PBF-ND	Quad Precision R/R In/Out Op Amp*	16-DFN	2.38	1.69	1.40
LT6010CDD#PBF-ND	Prec. R/R Output Op Amp with Shutdown*	8-DFN	2.60	1.73	1.45
LT6010CS8#PBF-ND	Prec. R/R Output Op Amp with Shutdown*	8-SOIC	2.20	1.47	1.25
LT6011CS8#PBF-ND	Dual Precision Rail-to-Rail Output Op Amp*	8-SOIC	3.30	2.36	1.94
LT6012ACS#PBF-ND	Quad Precision Rail-to-Rail Output Op Amp*	14-SOIC	6.63	4.73	3.90
LT6012CS-ND	Quad Precision Rail-to-Rail Output Op Amp	14-SOIC	5.88	4.20	3.46
LT6012CS#PBF-ND	Quad Precision Rail-to-Rail Output Op Amp*	14-SOIC	5.88	4.20	3.46
LT6013ACS8#PBF-ND	Single Precision R/R Output Op Amp*	8-SOIC	3.25	2.16	1.80
LT6013CS8#PBF-ND	Single Precision R/R Output Op Amp*	8-SOIC	2.20	1.47	1.25
LT6014ACS8#PBF-ND	Dual Precision Rail-to-Rail Output Op Amp*	8-SOIC	4.38	3.13	2.57
LT6100CDD#PBF-ND	Precision High Side Current Sense Amp*	8-DFN	2.35	1.69	1.39
LT6100CMS8#PBF-ND	Precision High Side Current Sense Amp*	8-MSOP	2.35	1.69	1.39
LT6105CMS8#PBF-ND	Precision Current Sense Amp*	8-MSOP	2.10	1.40	1.15
LT6106CS5#TRMPBFCT-ND	36V High Side Current Sense Amp*	TSOT-23-5	1.96	1.75	1.58
LT6106CS5#TRMPBFTR-ND	36V High Side Current Sense Amp*	TSOT-23-5	485.00/500		
LT6106HS5#TRMPBFCT-ND	36V High Side Current Sense Amp*	TSOT-23-5	2.24	2.00	1.80
LT6106HS5#TRMPBFTR-ND	36V High Side Current Sense Amp*	TSOT-23-5	555.00/500		
LT6107MPS5#TRMPBFCT-ND	High Side Current Sense Amp*	TSOT-23-5	5.68	5.08	4.57
LT6107MPS5#TRMPBFTR-ND	High Side Current Sense Amp*	TSOT-23-5	1365.00/500		
LT6200CS6#TRMPBFCT-ND	165MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6	5.15	4.60	4.14
LT6200CS6#TRMPBFTR-ND	165MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6	1235.00/500		
LT6200CS6-5#TRMCT-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	3.70	3.30	2.97
LT6200CS6-5#TRMPBFCT-ND	800MHz, Rail-to-Rail, I/O Low Noise Op Amp*	SOT-23-6	3.70	3.30	2.97
LT6200CS6-5#TRMPBFTR-ND	800MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6	860.00/500		
LT6200CS8#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	4.38	2.91	2.40
LT6200CS8-5-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	3.08	2.05	1.65
LT6200IS6#TRMCT-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	6.13	5.48	4.93
LT6200IS8#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	5.25	3.49	2.90
LT6201CDD-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp	8-DFN	7.63	5.07	4.10
LT6201CS8#PBF-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	7.38	4.90	4.00
LT6202CS8#PBF-ND	Single, R/R I/O Ultralow Noise, LP Op Amp*	8-SOIC	2.88	1.91	1.70
LT6203CDD#PBF-ND	Dual, R/R, In/Out Ultralow Noise, LP Op Amp*	8-DFN	5.50	3.76	3.17
LT6203CMS8-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp	8-MSOP	5.13	3.50	2.95
LT6203CMS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp*	8-MSOP	5.13	3.50	2.95
LT6203CS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp*	8-SOIC	4.88	3.40	2.85
LT6204CS#PBF-ND	Quad R/R, In/Out, Ultralow Noise, LP Op Amp*	14-SOIC	9.00	6.35	5.90
LT6206CMS8#PBF-ND	Dual Single Supply 3V, 100MHz Video Op Amp*	8-MSOP	2.10	1.50	1.25
LT6207CGN#PBF-ND	Quad Single Supply 3V, 100MHz Video Op Amp*	16-SSOP	3.13	2.08	1.65
LT6211CMS#PBF-ND	Dual, Programmable R/R Output Amp*	10-MSOP	3.20	2.29	1.88
LT6220CS5#TRMPBFCT-ND	Single 60MHz, R/R In/Out Precision Op Amp*	TSOT-23-5	2.91	2.60	2.34
LT6220CS5#TRMPBFTR-ND	Single 60MHz, R/R In/Out Precision Op Amp*	TSOT-23-5	765.00/500		
LT6220CS8#PBF-ND	Single 60MHz, R/R In/Out Precision Op Amp*	8-SOIC	2.38	1.75	1.45
LT6221CDD#PBF-ND	Dual 60MHz, R/R In/Out Precision Op Amp*	8-DFN	4.13	2.74	2.36
LT6221CS8#PBF-ND	Dual 60MHz, R/R In/Out Precision Op Amp*	8-SOIC	3.70	2.46	2.13
LT6222CGN#PBF-ND	Quad 60MHz, R/R I/O Precision Op Amp*	16-SSOP	5.88	3.91	3.40
LT6230CS6#TRMPBFCT-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	3.05	2.73	2.46
LT6230CS6#TRMPBFTR-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	735.00/500		
LT6230CS6-10#TRMPBFCT-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	3.61	3.23	2.91
LT6230CS6-10#TRMPBFTR-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	860.00/500		
LT6231CDD#PBF-ND	Dual 215MHz, R/R Output, 3.5mA Op Amp* ***NEW!***	8-DFN	4.13	2.95	2.43
LT6231CS8#PBF-ND	Dual 215MHz, R/R Output, 3.4mA Op Amp*	8-SOIC	3.88	2.77	2.28
LT6232CGN-ND	Quad 215MHz, R/R Output, 3.4mA Op Amp	16-SSOP	6.63	4.73	3.90
LT6232CGN#PBF-ND	Quad 215MHz, R/R Output, 3.4mA Op Amp*	16-SSOP	6.63	4.73	3.90
LT6233CS6#TRMPBFCT-ND	Single 60MHz, R/R Output, 1.2mA Op Amp*	SOT-23-6	3.47	3.10	2.79
LT6233CS6#TRMPBFTR-ND	Single 60MHz, R/R Output, 1.2mA Op Amp*	SOT-23-6	880.00/500		
LT6233CS6-10#TRMCT-ND	Single 375MHz, R/R Output, 1.2mA Op Amp	SOT-23-6	4.45	3.98	3.58
LT6233CS6-10#TRMPBFCT-ND	Single 375MHz, R/R Output, 1.2mA Op Amp*	SOT-23-6	4.45	3.98	3.58
LT6233CS6-10#TRMPBFTR-ND	Single 375MHz, R/R Output, 1.2mA Op Amp*	SOT-23-6	1140.00/500		
LT6234CS8#PBF-ND	Dual 60MHz, R/R Output, 1.2mA Op Amp*	8-SOIC	4.88	3.48	2.87
LT6235CGN#PBF-ND	Quad 60MHz, R/R Output, 1.2mA Op Amp*	16-SSOP	8.25	5.89	4.85
LT6300CGN-ND	500mA, 200MHz xDSL Line Driver	16-SSOP	5.88	3.91	3.35
LT6301CFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	12.38	8.25	7.05
LT6301IFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	15.63	10.38	8.90
LT6550CMS#PBF-ND	3.3V, Triple Video Amplifier*	10-MSOP	3.58	2.50	2.10
LT6551CMS#PBF-ND	3.3V, Quad Video Amplifier*	10-MSOP	3.98	2.80	2.35
LT6552CDD-ND	3.3V Single Supply Video Difference Amp	8-DFN	2.63	1.85	1.55
LT6553CGN#PBF-ND	650MHz Gain of 2 Triple Video Amp*	16-SSOP	5.00	3.32	2.65
LT6554CGN#PBF-ND	650MHz Gain of 1 Triple Video Buffer*	16-SSOP	5.00	3.32	2.65
LT6555CGN#PBF-ND	650MHz Gain of 2 Triple Video 2:1 Mux*	24-SSOP	5.50	3.90	3.25
LT6555CUF#PBF-ND	650MHz Gain of 2 Triple Video 2:1 Mux*	24-QFN	5.50	3.90	3.25
LT6556CGN#PBF-ND	750MHz Gain of 1 Triple Video 2:1 Mux*	24-SSOP	5.50	3.90	3.25
LT6557CGN#PBF-ND	High Speed Triple Video Amp, Fixed Gain*	16-SSOP	5.00	3.57	2.94
LT6558CGN#PBF-ND	High Speed Triple Video Amp, Fixed Gain*	16-SSOP	5.00	3.57	2.94
LT6559CUD#PBF-ND	5V Single Supply Triple Video Amp*	16-QFN	1.90	1.36	1.12
LTC1047CSW#PBF-ND	Dual Chopper-Stabilized Op Amp*	16-SOIC	10.25	6.85	5.45
LTC1049CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	4.30	2.86	2.25
LTC1049CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.40	3.59	2.80
LTC1049CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	5.40	3.59	2.80
LTC1050CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	4.30	2.86	2.25
LTC1050CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	5.40	3.59	2.80
LTC1051CN8#PBF-ND	Dual Chopper-Stabilized Op Amp*	8-Dip	8.10	5.38	4.25
LTC1051CSW#PBF-ND	Dual Chopper-Stabilized Op Amp*	16-SOIC	9.60	6.38	4.95
LTC1052CN#PBF-ND	Low Noise Chopper-Stabilized Op Amp*	14-Dip	8.90	5.91	4.65
LTC1052CN8#PBF-ND	Low Noise Chopper-Stabilized Op Amp*	8-Dip	8.20	5.45	4.30
LTC1053CN#PBF-ND	Quad Chopper-Stabilized Op Amp*	14-Dip	13.50	9.00	7.80
LTC1053CSW-ND	Quad Chopper-Stabilized Op Amp	18-SOIC	16.13	10.75	8.85
LTC1053CSW#PBF-ND	Quad Chopper-Stabilized Op Amp*	18-SOIC	16.13	10.75	8.85
LTC1150CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	7.40	4.92	3.85
LTC1150CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	8.80	5.85	4.55
LTC1151CN8#PBF-ND	Dual, Zero-Drift Op Amp*	8-Dip	11.60	7.71	5.95

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1151CSW#PBF-ND	Dual, Zero-Drift Op Amp*	16-SOIC	13.50	8.97	6.95
LTC1152CN8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp*	8-Dip	6.00	4.00	3.25
LTC1152CS8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp*	8-SOIC	6.50	4.35	3.50
LTC1152IS8#PBF-ND	Rail-to-Rail, I/O, Zero-Drift Op Amp, Ind. Temp.*	8-SOIC	7.25	4.82	3.95
LTC1250CN8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp*	8-Dip	5.50	3.70	2.90
LTC1250CS8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp*	8-SOIC	6.25	4.20	3.30
LTC2050CS5#TRMPBFCT-ND	6V, Zero-Drift Op Amp*	TSOT-23-5	2.88	2.58	2.32
LTC2050CS5#TRMPBFTR-ND	6V, Zero-Drift Op Amp*	TSOT-23-5	650.00/500		
LTC2050HS5#TRMPBFCT-ND	6V, Zero-Drift Op Amp*	TSOT-23-5	3.19	2.85	2.57
LTC2050HS5#TRMPBFTR-ND	6V, Zero-Drift Op Amp*	TSOT-23-5	712.50/500		
LTC2050HS6#TRMCT-ND	6V, Zero-Drift Op Amp	SOT-23-6	3.47	3.10	2.79
LTC2050HVCS5#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	TSOT-23-5	3.58	3.20	2.88
LTC2050HVCS5#TRMPBFCT-ND	12V, High Voltage, Zero-Drift Op Amp*	TSOT-23-5	3.58	3.20	2.88
LTC2050HVCS5#TRMPBFTR-ND	12V, High Voltage, Zero-Drift Op Amp*	TSOT-23-5	800.00/500		
LTC2050HVCS6#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	3.86	3.45	3.11
LTC2050HVCS6#TRMPBFCT-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-6	3.86	3.45	3.11
LTC2050HVCS6#TRMPBFTR-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-6	862.50/500		
LTC2050HVCS8-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp*	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8TR-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	4197.93/2,500		
LTC2050HVHS6#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	4.28	3.83	3.45
LTC2050HVIS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp*	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8TR-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	4576.92/2,500		
LTC2050IS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp*	8-SOIC	2.63	1.75	1.35
LTC2051HMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	4.75	3.16	2.45
LTC2051HVCDD#PBF-ND	Dual Zero-Drift Op Amp*	8-DFN	5.75	4.11	3.38
LTC2051HVHMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	6.00	3.99	3.10
LTC2051HVHS8#PBF-ND	Dual Zero-Drift Op Amp*	8-SOIC	5.75	3.82	2.95
LTC2051HVIMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	6.00	3.99	3.10
LTC2052CGN#PBF-ND	Quad Zero-Drift Op Amp*	16-SSOP	8.38	5.57	4.20
LTC2052CGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	10813.42/2,500		
LTC2052CS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	7.75	5.15	3.90
LTC2052CSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	10064.48/2,500		
LTC2052HS-ND	Quad Zero-Drift Op Amp	14-SOIC	8.38	5.57	4.45
LTC2052HS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	8.38	5.57	4.45
LTC2052IS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	8.38	5.57	4.20
LTC2052HVCGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	13437.50/2,500		
LTC2052HVCS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	9.63	6.40	4.82
LTC2052HVCSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	12343.75/2,500		
LTC2052HVHS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	10.50	6.98	5.75
LTC2052HVIGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temperature	16-SSOP	14218.75/2,500		
LTC2052HVISTR-ND	Quad Zero-Drift Op Amp, Ind. Temperature	14-SOIC	13437.50/2,500		
LTC2052IGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temperature	16-SSOP	11562.50/2,500		
LTC2054CS5#TRMPBFCT-ND	Single Zero-Drift Op Amp*	TSOT-23-5	2.49	2.23	2.01
LTC2054CS5#TRMPBFTR-ND	Single Zero-Drift Op Amp*	TSOT-23-5	585.00/500		
LTC2054HS5#TRMPBFCT-ND	Single Zero-Drift Op Amp*	TSOT-23-5	2.94	2.63	2.37
LTC2054HS5#TRMPBFTR-ND	Single Zero-Drift Op Amp*	TSOT-23-5	685.00/500		
LTC2055CMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.20	2.29	1.88
LTC2055HMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.83	2.73	2.25
LTC2055HVCMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	4.00	2.86	2.35
LTC4151CDD#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-DFN	5.53	4.64	3.82
LTC4151CDD-1#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-DFN	5.53	4.64	3.82
LTC4151CMS#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-MSOP	5.53	4.64	3.82
LTC4151CMS-1#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-MSOP	5.53	4.64	3.82
LTC4151CS-2#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor* ***NEW!***	16-SOIC	5.53	3.71	3.16
LTC4151IDD#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-DFN	6.63	5.57	4.59
LTC4151IDD-1#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-DFN	6.63	5.57	4.59
LTC4151IMS#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-MSOP	6.63	5.57	4.59
LTC4151IMS-1#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor*	10-MSOP	6.63	5.57	4.59
LTC4151IS-2#PBF-ND	High Voltage I^{2}C Current/Voltage Monitor* ***NEW!***	16-SOIC	6.63	4.46	3.79
LTC6078ACMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.50	3.21	2.64
LTC6078AIMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	5.18	3.69	3.04
LTC6078CDD#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	10-DFN	2.98	2.12	1.75
LTC6078CMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	2.98	2.12	1.75
LTC6078IDD#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	10-DFN	3.40	2.42	2.00
LTC6078IMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	3.40	2.42	2.00
LTC6079CDHC#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-DFN	5.05	3.60	2.97
LTC6079CGN#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	5.05	3.60	2.97
LTC6079IDHC#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-DFN	5.80	4.14	3.42
LTC6079IGN#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	5.80	4.14	3.42
LTC6081CDD#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	10-DFN	3.48	2.63	2.18
LTC6081CMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	3.48	2.63	2.18
LTC6081HMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.20	3.18	2.63
LTC6081IDD#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	10-DFN	4.20	3.18	2.63
LTC6081IMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.20	3.18	2.63
LTC6082HGN#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	7.20	5.45	4.50
LTC6084CDD#PBF-ND	Dual 1.5MHz, Rail-to-Rail, CMOS Op Amp*	10-DFN	1.93	1.34	1.10
LTC6084CMS8#PBF-ND	Dual 1.5MHz, R/R, CMOS Op Amp*	8-MSOP	1.93	1.34	1.10
LTC6084HDD#PBF-ND	Dual 1.5MHz, Rail-to-Rail, CMOS Op Amp*	10-DFN	2.35	1.62	1.34
LTC6084HMS8#PBF-ND	Dual 1.5MHz, R/R, CMOS Op Amp*	8-MSOP	2.35	1.62	1.34
LTC6085CDHC#PBF-ND	Quad 1.5MHz, R/R, CMOS Op Amp*	16-DFN	2.80	2.04	1.69
LTC6085CGN#PBF-ND	Quad 1.5MHz, R/R, CMOS Op Amp*	16-SSOP	2.80	2.04	1.69
LTC6085HDHC#PBF-ND	Quad 1.5MHz, R/R, CMOS Op Amp*	16-DFN	3.38	2.46	2.04
LTC6087CDD#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	10-DFN	1.83	1.38	1.14
LTC6087CMS8#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	8-MSOP	1.83	1.38	1.14
LTC6087HDD#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	10-DFN	2.23	1.68	1.39
LTC6087HMS8#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	8-MSOP	2.23	1.68	1.39
LTC6088CGN#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-SSOP	2.80	2.11	1.74
LTC6088HDHC#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-DFN	3.40	2.56	2.12
LTC6101HVACS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	4.03	3.60	3.24
LTC6101HVACS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1030.00/500		
LTC6101HVAHS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	5.40	4.83	4.35
LTC6101HVAHS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1395.00/500		
LTC6101HVAIS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	4.82	4.30	3.87
LTC6101HVAIS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1240.00/500		
LTC6102CDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	3.45	2.44	2.02
LTC6102CDD-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-DFN	3.88	2.58	2.12
LTC6102CMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	3.45	2.44	2.02
LTC6102CMS8-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-MSOP	3.88	2.58	2.12
LTC6102HDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	4.55	3.24	2.68
LTC6102HDD-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-DFN	5.03	3.34	2.76
LTC6102HMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.55	3.24	2.68
LTC6102HMS8-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-MSOP	5.03	3.34	2.76
LTC6102HVCDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	4.15	2.93	2.42
LTC6102HVCMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.15	2.93	2.42
LTC6102HVHDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	5.45	3.89	3.21

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC6102HVHMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	5.45	3.89	3.21
LTC6102HVIMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.78	3.41	2.81
LTC6102IDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	3.98	2.83	2.34
LTC6102IDD-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-DFN	4.43	2.94	2.42
LTC6102IMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	3.98	2.83	2.34
LTC6102IMS8-1#PBF-ND	Precision Zero Drift Current Sense Amp* ***NEW!***	8-MSOP	4.43	2.94	2.42
LTC6103CMS8#PBF-ND	Dual High Voltage, High Side Current Sense Amp*	8-MSOP	3.33	2.38	1.96
LTC6103HMS8#PBF-ND	Dual High Voltage, High Side Current Sense Amp*	8-MSOP	4.33	3.09	2.54
LTC6103IMS8#PBF-ND	Dual High Voltage, High Side Current Sense Amp*	8-MSOP	3.83	2.73	2.25
LTC6104CMS8#PBF-ND	High Voltage, High Side, Bi-Directional Amp*	8-MSOP	2.75	1.97	1.62
LTC6104HMS8#PBF-ND	High Voltage, High Side, Bi-Directional Amp*	8-MSOP	3.60	2.56	2.11
LTC6104IMS8#PBF-ND	High Voltage, High Side, Bi-Directional Amp*	8-MSOP	3.18	2.27	1.87
LTC6240CS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	1.65	1.21	1.00
LTC6240HS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	1.85	1.35	1.12
LTC6240HVCS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	3.08	2.19	1.81
LTC6240HVHS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	3.38	2.41	1.99
LTC6240HVIS8#PBF-ND	Single 18MHz, LN, R/R Out Op Amp, Ind. Temp.*	8-SOIC	3.38	2.41	1.99
LTC6240IS8#PBF-ND	Single 18MHz, LN, R/R Out Op Amp, Ind. Temp.*	8-SOIC	1.90	1.35	1.12
LTC6244CDD#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-DFN	3.30	2.35	1.94
LTC6244CMS8#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-MSOP	3.30	2.35	1.94
LTC6244HDD#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp* ***NEW!***	8-DFN	3.80	2.71	2.23
LTC6244HMS8#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-MSOP	3.80	2.71	2.23
LTC6244HVIDD#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-DFN	6.65	4.73	3.90
LTC6244HVIMS8#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-MSOP	6.65	4.73	3.90
LTC6244IDD#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-DFN	3.80	2.71	2.23
LTC6244IMS8#PBF-ND	Dual 50MHz, LN R/R CMOS Op Amp*	8-MSOP	3.80	2.71	2.23
LTC6247CMS8#PBF-ND	Dual, 180MHz, 1mA R/R I/O Op Amp* ***NEW!***	8-MSOP	4.03	2.68	2.21
LTC6247IMS#PBF-ND	Dual, 180MHz, 1mA R/R I/O Op Amp* ***NEW!***	10-MSOP	4.88	3.24	2.69
LTC6247IMS8#PBF-ND	Dual, 180MHz, 1mA R/R I/O Op Amp* ***NEW!***	8-MSOP	4.65	3.09	2.55
LTC6400CUD-14#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	6.40	4.57	3.76
LTC6400CUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	6.40	4.57	3.76
LTC6400IUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	7.35	5.26	4.33
LTC6401CUD-14#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	5.90	4.21	3.47
LTC6401CUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	5.90	4.21	3.47
LTC6401IUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals*	16-QFN	6.78	4.85	3.99
LTC6910-1CTS8#TRMPBFCT-ND	Digitally Controlled PGA*	TSOT-23-8	2.77	2.48	2.23
LTC6910-1CTS8#TRMPBFTR-ND	Digitally Controlled PGA*	TSOT-23-8	765.00/500		
LTC6910-2CTS8#TRMPBFCT-ND	Digitally Controlled PGA*	TSOT-23-8	2.77	2.48	2.23
LTC6910-2CTS8#TRMPBFTR-ND	Digitally Controlled PGA*	TSOT-23-8	765.00/500		
Differential Amplifier					
LT1187CS8-ND	Adjustable Low Power Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1193CN8#PBF-ND	Adjustable Gain Video Difference Amp*	8-Dip	5.50	3.67	2.95
LT1193CS8#PBF-ND	Adjustable Gain Video Difference Amp*	8-SOIC	6.13	4.08	3.45
LT1193IS8-ND	Adjustable Gain Video Difference Amp	8-SOIC	6.75	4.49	3.90
LT1568CGN#PBF-ND	Low Noise High Frequency Filter Building Block*	16-SSOP	8.50	5.65	4.70
LT1990ACS8#PBF-ND	±250V MPU Precision Difference Amp*	8-SOIC	3.90	2.59	2.15
LT1990CS8#PBF-ND	±250V MPU Precision Difference Amp*	8-SOIC	2.70	1.80	1.50
LT1991ACMS#PBF-ND	Precision, 100µA Gain Selectable Amp*	10-MSOP	3.78	2.51	2.08
LT1991CMS#PBF-ND	Precision, 100µA Gain Selectable Amp*	10-MSOP	2.78	1.85	1.65
LT1993CUD-2#PBF-ND	800MHz Differential Amp/ADC Driver*	16-QFN	5.88	4.20	3.45
LT1993CUD-10#PBF-ND	700MHz Differential Amp/ADC Driver*	16-QFN	5.88	4.20	3.45
LT1993IUD-2#PBF-ND	800MHz Differential Amp/ADC Driver*	16-QFN	6.75	4.65	3.97
LT1993IUD-4#PBF-ND	900MHz Differential Amp/ADC Driver*	16-QFN	6.75	4.65	3.97
LT1994CDD#PBF-ND	Low Noise, Fully Diff. In/Out Amp/Driver*	8-DFN	3.30	2.35	1.95
LT1994IDD#PBF-ND	Low Noise, Fully Diff. In/Out Amp/Driver*	8-DFN	3.80	2.70	2.25
LT1995CDD#PBF-ND	32MHz Gain Selectable Amp*	10-DFN	4.18	2.78	2.29
LT1995CMS#PBF-ND	32MHz Gain Selectable Amp*	10-MSOP	3.78	2.51	2.07
LT1996CMS#PBF-ND	Precision, 100µA Gain Selectable Amp*	10-MSOP	2.78	1.85	1.65
LT5554IUH#PBF-ND	Broadband 7-Bit Digitally Controlled VGA*	32-QFN	9.35	6.29	5.34
LT6402CUD-20#PBF-ND	300MHz Low Noise Diff. Amp/ADC Driver*	16-QFN	4.75	3.39	2.79
LT6402IUD-6#PBF-ND	300MHz Low Noise Diff. Amp/ADC Driver*	16-QFN	5.48	3.90	3.21
LT6402IUD-12#PBF-ND	300MHz Low Noise Diff. Amp/ADC Driver*	16-QFN	5.48	3.90	3.21
LT6411CUD#PBF-ND	650MHz Diff. ADC Driver/Dual Selectable Gain Amp*	16-QFN	4.75	3.39	2.79
LT6552CDD#PBF-ND	3.3V Single Supply Video Difference Amp*	8-DFN	2.63	1.85	1.55
LT6552CS8#PBF-ND	3.3V Single Supply Video Difference Amp*	8-SOIC	2.20	1.55	1.30
LT6552IDD#PBF-ND	3.3V Single Supply Video Difference Amp*	8-DFN	3.13	2.20	1.85
LT6552IS8#PBF-ND	3.3V Single Supply Video Difference Amp*	8-SOIC	2.70	1.90	1.60
LT6600CS8-20#PBF-ND	Diff. Amp and 20MHz Lowpass Filter*	8-SOIC	5.88	3.91	3.40
LT6600IS8-20#PBF-ND	Diff. Amp and 20MHz Lowpass Filter*	8-SOIC	6.75	4.49	3.90
LT6604IUFF-2.5#PBF-ND	Dual Diff. Amp and 2.5MHz Lowpass Filter*	34-QFN	15.83	10.65	9.01
LT6604IUFF-5#PBF-ND	Dual Diff. Amp and 5MHz Lowpass Filter*	34-QFN	15.83	10.65	9.01
LT6604IUFF-10#PBF-ND	Dual Diff. Amp and 10MHz Lowpass Filter*	34-QFN	15.83	10.65	9.01
LT6604IUFF-15#PBF-ND	Dual Diff. Amp and 15MHz Lowpass Filter*	34-QFN	15.83	10.65	9.01
LTC1992-1CMS8#PBF-ND	Gain of 1 Fully Differential In/Out Amp/Driver*	8-MSOP	7.88	5.23	4.35
LTC1992-2CMS8#PBF-ND	Gain of 2 Fully Differential In/Out Amp/Driver*	8-MSOP	7.88	5.23	4.35
LTC1992CMS8#PBF-ND	Fully Differential In/Out Amp/Driver*	8-MSOP	3.30	2.80	2.15
LTC6400CUD-26#PBF-ND	1.8GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	6.40	4.57	3.76
LTC6400IUD-26#PBF-ND	1.8GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	7.35	5.26	4.33
LTC6401CUD-26#PBF-ND	1.3GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	5.90	4.21	3.47
LTC6401IUD-26#PBF-ND	1.3GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	6.78	4.85	3.99
LTC6403CUD-1#PBF-ND	200MHz Low Noise, Fully Diff. I/O Amp/Driver*	16-QFN	3.80	2.53	2.10
LTC6403IUD-1#PBF-ND	200MHz Low Noise, Fully Diff. I/O Amp/Driver*	16-QFN	4.43	2.94	2.44
LTC6404CUD-1#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	6.88	4.91	4.05
LTC6404CUD-2#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	6.88	4.91	4.05
LTC6404CUD-4#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	6.88	4.91	4.05
LTC6404HUD-1#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	8.68	6.23	5.13
LTC6404IUD-1#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	7.58	5.41	4.47
LTC6404IUD-2#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	7.58	5.41	4.47
LTC6404IUD-4#PBF-ND	600MHz, Low Noise Fully Diff. I/O Amp/Driver*	16-QFN	7.65	5.41	4.47
LTC6405CMS8E#PBF-ND	2.7GHz, 5V Low Noise Diff. Amp/Driver*	8-MSOP	7.30	4.98	4.14
LTC6405CUD#PBF-ND	2.7GHz, 5V LN R/R Diff. Amp/Driver*	16-QFN	6.88	4.98	4.14
LTC6405IMS8E#PBF-ND	2.7GHz, 5V Low Noise Diff. Amp/Driver*	8-MSOP	8.05	5.48	4.56
LTC6405IUD#PBF-ND	2.7GHz, 5V LN R/R Diff. Amp/Driver*	16-QFN	7.58	5.48	4.56
LTC6406CUD#PBF-ND	3GHz, Low Noise, R/R In Diff. Amp/Driver*	16-QFN	6.88	4.91	4.05
LTC6406IUD#PBF-ND	3GHz, Low Noise, R/R In Diff. Amp/Driver*	16-QFN	7.58	5.41	4.47
LTC6410IUD-6#PBF-ND	Low Distoration/Noise Differential IF Amp*	16-QFN	6.65	4.43	3.66
LTC6412CUF#PBF-ND	800MHz Analog-Controlled VGA* ***NEW!***	24-QFN	9.98	6.75	5.63
LTC6412IUF#PBF-ND	800MHz Analog-Controlled VGA* ***NEW!***	24-QFN	10.98	7.43	6.19
LTC6416IDDB#TRMPBFCT-ND	2GHz, 16-Bit ADC Low Noise Diff. Buffer*	10-DFN	9.27	8.28	7.45
LTC6416IDDB#TRMPBFTR-ND	2GHz, 16-Bit ADC Low Noise Diff. Buffer*	10-DFN	2340.00/500		
LTC6420CUDC-20#PBF-ND	Dual Matched 1.8GHz, Diff. Amp/ADC Driver*	20-QFN	10.98	7.46	6.20
LTC6420IUDC-20#PBF-ND	Dual Matched 1.8GHz, Diff. Amp/ADC Driver*	20-QFN	12.60	8.55	7.12
LTC6421CUDC-20#PBF-ND	Dual Matched 1.3GHz, Diff. Amp/ADC Driver*	20-QFN	10.13	6.88	5.72
LTC6421IUDC-20#PBF-ND	Dual Matched 1.3GHz, Diff. Amp/ADC Driver*	20-QFN	11.68	7.92	6.59
LTC6601CUF-2#PBF-ND	Low Noise Filter/ADC Driver* ***NEW!***	20-QFN	8.40	5.58	4.78
LTC6601IUF-2#PBF-ND	Low Noise Filter/ADC Driver* ***NEW!***	20-QFN	9.68	6.43	5.51
LTC6603CUF#PBF-ND	Dual Adj. Lowpass Filter*	24-QFN	15.93	10.58	9.10
LTC6603IUF#PBF-ND	Dual Adj. Lowpass Filter*	24-QFN	18.28	12.29	10.44
LTC6605CDJC-7#PBF-ND	Dual Matched 7MHz Filter Diff. Amp*	22-DFN	14.78	9.82	8.41
LTC6605CDJC-10#PBF-ND	Dual Matched 10MHz Filter Diff. Amp*	22-DFN	14.78	9.82	8.41
LTC6605CDJC-14#PBF-ND	Dual Matched 14MHz Filter Diff. Amp*	22-DFN	14.78	9.82	8.41
Instrumentation Amplifier					
LT1101ACN8#PBF-ND	Precision Micropower Single Instr. Amp*	8-Dip	13.20	8.77	6.95
LT1101AIN8#PBF-ND	Prec. MPU Single Instrument Amp, Ind. Temp.*	8-Dip	16.70	11.09	8.70
LT1101CN8#PBF-ND	Precision Micropower Single Instr. Amp*	8-Dip	9.50	6.31	4.95
LT1101IN8#PBF-ND	Prec. MPU Single Instr. Amp, Ind. Temp.*	8-Dip	11.90	7.91	6.25
LT1101SW#PBF-ND	Precision MPU Single Instrumentation Amp*	16-SOIC	11.40	7.57	5.95
LT1102CN8-ND	Precision MPU Instrumentation Amp, JFET Input	8-Dip	8.75	5.83	4.95
LT1102CN8#PBF-ND	Precision MPU Instrumentation Amp, JFET Input*	8-Dip	8.75	5.83	4.95
LT1167ACS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	11.13	7.39	5.75
LT1167AIS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	12.75	8.47	6.65
LT1167CN8#PBF-ND	Programmable Precision Instrumentation Amp*	8-Dip	6.38	4.24	3.30
LT1167CS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	6.38	4.24	3.30
LT1167IS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	7.38	4.90	3.85
LT1168ACS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	12.38	8.22	6.35
LT1168CS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	7.63	5.07	3.95
LT1789CS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	6.38	4.24	3.30
LT1789CS8-10#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	6.38	4.55	3.75
LT1789IS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	7.38	4.90	3.85
LT1920CN8#PBF-ND	Precision Instrumentation Amplifier*	8-Dip	6.25	4.15	3.25
LT1920CS8#PBF-ND	Precision Instrumentation Amplifier*	8-SOIC	6.25	4.15	3.25
LTC1100CN8#PBF-ND	Precision, Chopper-Stabilized Instrument Amp*	8-Dip	12.30	8.17	6.45
LTC1100CSW#PBF-ND	Precision, Chopper-Stabilized Instrument Amp*	16-SOIC	14.20	9.43	7.40
LTC2053CMS8#PBF-ND	Prec. R-R I/O Zero-Drift Instrumentation Amp*	8-MSOP	6.38	4.24	3.30
LTC2053IMS8#PBF-ND	Prec. R-R I/O Zero-Drift Instrumentation Amp*	8-MSOP	7.38	4.90	3.85
LTC6800HMS8#PBF-ND	Rail-to-Rail In/Out Instrumentation Amp*	8-MSOP	3.10	2.25	1.85
Comparator					
LT319AN#PBF-ND	Dual Comparator*	14-Dip	3.38	2.25	1.95
LT1011ACN8#PBF-ND	5V Precision Voltage Comparator*	8-Dip	5.50	3.66	2.85
LT1011AIS8#PBF-ND	5V Precision Voltage Comparator*	8-SOIC	5.90	3.92	3.15
LT1011CN8#PBF-ND	5V Precision Voltage Comparator*	8-Dip	2.60	1.73	1.40
LT1011CS8#PBF-ND	5V Precision Voltage Comparator*	8-SOIC	3.20	2.13	1.70
LT1016CN8#PBF-ND	High-Speed, 10nS Comparator*	8-Dip	5.50	3.67	2.95
LT1016CS8#PBF-ND	High-Speed, 10nS Comparator*	8-Dip	6.13	4.08	3.20
LT1017CN8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-Dip	4.00	2.66	2.10
LT1017CS8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-SOIC	4.40	2.93	2.30
LT1017IS8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-SOIC	5.30	3.52	2.75
LT1018CN8#PBF-ND	MPU Dual Comparator, 110µA Supply Current*	8-Dip	3.80	2.53	1.95
LT1018CS8#PBF-ND	MPU Dual Comparator, 110µA Supply Current*	8-SOIC	4.20	2.79	2.20
LT1116CN8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator*	8-Dip	6.70	4.45	3.50
LT1116CS8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator*	8-SOIC	7.20	4.79	3.75
LT1394CS8#PBF-ND	7nS, Low Power Comparator*	8-SOIC	5.13	3.41	2.65
LT1394IS8#PBF-ND	7nS, Low Power Comparator, Ind. Temp.*	8-SOIC	5.75	3.82	2.90
LT1671CS8#PBF-ND	60nS Low Power Ground-Sensing Comparator*	8-SOIC	3.50	2.33	1.80
LT1711CMS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator*	8-MSOP	4.38	2.91	2.50
LT1711IMS8#PBF-ND	Single R/R, In/Out Comparator, Ind. Temp.*	8-MSOP	4.75	3.16	2.65
LT1712CGN#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	16-SSOP	6.88	4.57	3.55
LT1713IMS8#PBF-ND	Single Low Power, R/R In/Out Comparator*	8-MSOP	4.38	2.91	2.35
LT1714CGN#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	16-SSOP	6.63	4.40	3.32
LT1714IGN#PBF-ND	Dual R/R, In/Out Comparator, Ind. Temp.*	16-SSOP	7.13	4.74	3.57
LT1715CMS#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	10-MSOP	6.88	4.57	3.65
LT1715HMS#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	10-MSOP	8.65	5.75	4.74
LT1716CS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	TSOT-23-5	2.49	2.23	2.01
LT1716CS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	TSOT-23-5	640.00/500		
LT1716HS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	TSOT-23-5	2.91	2.60	2.34
LT1716HS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	TSOT-23-5	765.00/500		
LT1716IS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	2.91	2.60	2.34
LT1716IS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	765.00/500		
LT1719CS6#TRMPBFCT-ND	Single Rail-to-Rail, In/Out Comparator*	SOT-23-6	3.47	3.10	2.79
LT1719CS6#TRMPBFTR-ND	Single Rail-to-Rail, In/Out Comparator*	SOT-23-6	810.00/500		
LT1719CS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator*	8-SOIC	4.00	2.66	2.10
LT1719IS6#TRMPBFCT-ND	Single R/R, In/Out Comparator, Ind. Temp.*	SOT-23-6	3.89	3.48	3.13
LT1719IS6#TRMPBFTR-ND	Single R/R, In/Out Comparator, Ind. Temp.*	SOT-23-6	885.00/500		
LT1720CMS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	8-MSOP	6.50	4.32	3.45
LT1720CS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	8-SOIC	6.00	3.99	3.00
LT1720IS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.*	8-SOIC	7.00	4.65	3.50
LT1721CGN#PBF-ND	Quad Rail-to-Rail, In/Out Comparator*	16-SSOP	9.38	6.23	5.00
LT1721CS#PBF-ND	Quad Rail-to-Rail, In/Out Comparator*	16-SOIC	9.00	5.98	4.80
LT6700CS6-1#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-1#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	840.00/500		
LT6700CS6-2#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-2#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	840.00/500		
LT6700CS6-3#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-3#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	840.00/500		
LT6703CDC-2#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.79	1.60	1.44
LT6703CDC-2#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	440.00/500		
LT6703CDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.79	1.60	1.44
LT6703CDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	440.00/500		
LT6703HDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	2.16	1.93	1.74
LT6703HDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	540.00/500		
LT6703IDC-2#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.99	1.78	1.60
LT6703IDC-2#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	495.00/500		
LT6703IDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.99	1.78	1.60
LT6703IDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	495.00/500		
LTC1040CN#PBF-ND	Dual Micropower Comparator*	18-Dip	3.88	2.58	2.20
LTC1042CN8#PBF-ND	CMOS Window Comparator*	8-Dip	3.38	2.25	1.90
LTC1440CMS8#PBF-ND	Ultra Low Power Single Comparator*	8-MSOP	3.13	2.15	1.70
LTC1440CN8#PBF-ND	Ultra Low Power Single Comparator*	8-Dip	2.75	1.85	1.50
LTC1440CS8#PBF-ND	Ultra Low Power Single Comparator*	8-SOIC	2.75	1.85	1.50
LTC1440IS8#PBF-ND	Ultra Low Power Single Comparator, Ind. Temp.*	8-SOIC	3.25	2.20	1.75
LTC1441CS8-ND	Ultra Low Power Dual Comparator.	8-SOIC	3.38	2.25	1.85
LTC1441CS8#PBF-ND	Ultra Low Power Dual Comparator*	8-SOIC	3.38	2.25	1.85
LTC1442CS8#PBF-ND	Ultra Low Power Dual Comparator*	8-SOIC	4.13	2.74	2.25
LTC1442IS8#PBF-ND	Ultra Low Power Dual Comparator, Ind. Temp.*	8-SOIC	4.88	3.24	2.70
LTC1443CS-ND	Ultra Low Power Quad Comparator	16-SOIC	4.75	3.16	2.50
LTC1443CN#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp.*	16-Dip	4.75	3.16	2.50
LTC1443IN-ND	Ultra Low Power Quad Comparator, Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1443IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp.*	16-SOIC	5.50	3.66	3.05
LTC1444CS#PBF-ND	Ultra Low Power Quad Comparator*	16-SOIC	4.75	3.16	2.50
LTC1444IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp.*	16-SOIC	5.50	3.66	3.05
LTC1445IN-ND	Ultra Low Power Quad Comparator, Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1445IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp.*	16-SOIC	5.50	3.66	3.05
LTC1540CMS8#PBF-ND	Nanopower Comparator with Reference*	8-MSOP	3.38	2.25	1.85
LTC1540CS8#PBF-ND	Nanopower Comparator with Reference*	8-SOIC	3.00	2.00	1.65

* ***RoHS Compliant***

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

AMPLIFIERS

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1540IDD#PBF-ND	Nanopower Comparator with Reference* ***NEW!***	8-DFN	4.65	3.32	2.74
LTC1540IS8#PBF-ND	Nanopower Comparator with Reference*	8-SOIC	3.50	2.33	1.90
LTC1542CS8-ND	Micropower Op Amp, Comparator and Reference	8-SOIC	2.40	1.70	1.50
LTC1542CS8#PBF-ND	Micropower Op Amp, Comparator and Reference*	8-SOIC	2.40	1.70	1.50
LTC1842CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	2.88	1.91	1.50
LTC1843CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1843CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	2.88	1.91	1.50
LTC1843IS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	3.38	2.25	1.75
LTC1998CS6#TRMPBFCT-ND	Programmable Low Battery Voltage Detector*	SOT-23-6	2.49	2.23	2.01
LTC1998CS6#TRMPBFTR-ND	Programmable Low Battery Voltage Detector*	SOT-23-6	585.00/500		
LTC6702CDC#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	8-DFN	2.27	2.03	1.83
LTC6702CTS8#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	2.27	2.03	1.83
LTC6702CTS8#TRMPBFTR-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	565.00/500		
LTC6702HDC#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	8-DFN	2.97	2.65	2.39
LTC6702HTS8#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	2.97	2.65	2.39
LTC6702HTS8#TRMPBFTR-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	745.00/500		
LTC6702IDC#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	8-DFN	2.58	2.30	2.07
LTC6702IDC#TRMPBFTR-ND	µPower Low Voltage Dual Comparator*	8-DFN	650.00/500		
LTC6702ITS8#TRMPBFCT-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	2.58	2.30	2.07
LTC6702ITS8#TRMPBFTR-ND	µPower Low Voltage Dual Comparator*	TSOT-23-8	650.00/500		

FILTERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT6600CS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter*	8-SOIC	5.88	3.91	3.40
LT6600IS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter*	8-SOIC	6.75	4.49	3.90
LTC1059CN-ND	Switched-Capacitor Universal Filter Building Block	14-Dip	5.63	3.75	3.25
LTC1059CN#PBF-ND	Switched-Capacitor Universal Filter Building Block*	14-Dip	5.63	3.75	3.25
LTC1059CS#PBF-ND	Switched-Capacitor Universal Filter Building Block*	14-SOIC	6.25	4.20	3.40
LTC1060ACN#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-Dip	15.30	10.16	8.00
LTC1060CN#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-Dip	7.40	4.92	3.90
LTC1060CSW#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-SOIC	8.10	5.38	4.25
LTC1062CN8#PBF-ND	5th Order Lowpass Filter*	8-Dip	6.13	4.10	3.30
LTC1062CSW#PBF-ND	5th Order Lowpass Filter*	16-SOIC	6.25	4.20	3.55
LTC1063CN8#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter*	8-Dip	11.00	7.31	5.75
LTC1063CSW#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter*	16-SOIC	11.80	7.84	6.15
LTC1064-1CN-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1064-1CN#PBF-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter*	14-Dip	22.50	15.00	12.90
LTC1064-2CN#PBF-ND	8th Order, High Freq. Butterworth Lowpass Filter*	14-Dip	20.00	13.35	11.25
LTC1064-2CSW#PBF-ND	8th Order, High Freq. Butterworth Lowpass Filter*	16-SOIC	27.50	18.35	15.50
LTC1064-3CSW#PBF-ND	8th Order, High Freq. Linear Phase Lowpass Filter*	16-SOIC	20.00	13.35	11.30
LTC1064-4CSW#PBF-ND	8th Order, Clock Sweepable Cauer Lowpass Filter*	16-SOIC	31.25	20.85	17.65
LTC1064CN#PBF-ND	Quad, Universal Filter Building Block*	24-Dip	15.00	10.00	8.40
LTC1064CSW#PBF-ND	Quad, Universal Filter Building Block*	24-SOIC	18.00	12.00	9.55
LTC1065CN8#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter*	8-Dip	10.00	6.70	5.75
LTC1065CSW#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter*	16-SOIC	10.75	7.15	6.15
LTC1066-1CSW#PBF-ND	8th Order, Clock-Tunable Lowpass Filter*	18-SOIC	32.50	21.65	17.50
LTC1068-50IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp.*	28-SSOP	13.50	8.97	7.15
LTC1068-200CG#PBF-ND	Quad Universal Filter Building Block*	28-SSOP	12.38	8.22	6.60
LTC1068-200IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp.*	28-SSOP	13.50	8.97	7.15
LTC1068CG#PBF-ND	Quad Universal Filter Building Block*	28-SSOP	12.38	8.22	6.60
LTC1068CN#PBF-ND	Quad Universal Filter Building Block*	24-Dip	12.00	7.97	6.40
LTC1068IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp*	28-SSOP	13.50	8.97	7.15
LTC1069-1IS8#PBF-ND	8th Order Progressive Elliptic, Lowpass Filter*	8-SOIC	10.25	6.81	5.45
LTC1069-6CS8#PBF-ND	8th Order Single Supply, Elliptic Lowpass Filter*	8-SOIC	9.38	6.25	5.00
LTC1069-7CS8#PBF-ND	8th Order Linear Phase Lowpass Filter*	8-SOIC	9.38	6.23	5.00
LTC1164-5CN-ND	8th Order, Low Power, Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1164-7CSW#PBF-ND	8th Order, Low Power, Lowpass Filter, Linear Phase*	16-SOIC	27.50	18.35	15.50
LTC1164CN#PBF-ND	Quad Universal Filter Building Block*	24-Dip	15.00	10.00	8.40
LTC1560-1CS8#PBF-ND	5th Order, Cont. Time, Low Pass Elliptic Filter*	8-SOIC	9.13	6.06	4.85
LTC1562CG#PBF-ND	Low Distortion Active RC Quad Universal Filter*	20-SSOP	19.13	12.70	9.57
LTC1562CG-2#PBF-ND	2V, Low Distortion Active RC Quad Universal Filter*	20-SSOP	19.13	12.70	9.57
LTC1563-2CGN#PBF-ND	Active RC, 4th Order Lowpass Filter Family*	16-SSOP	4.13	2.74	2.10
LTC1564CG#PBF-ND	10-150kHz Digitally Controlled Antialiasing Filter*	16-SSOP	19.00	12.62	9.50
LTC1564IG#PBF-ND	10-150kHz Digitally Controlled Antialiasing Filter*	16-SSOP	21.88	14.53	10.94
LTC1565-31CS8#PBF-ND	650kHz, 7th Order, Cont. Time Low Pass Filter*	8-SOIC	8.00	5.32	4.00
LTC1565-31IS8-ND	650kHz, 7th Order, Cont. Time Low Pass Filter	8-SOIC	9.25	6.15	4.63
LTC1565-31IS8#PBF-ND	650kHz, 7th Order, Cont. Time Low Pass Filter*	8-SOIC	9.25	6.15	4.63
LTC1569CS8-6#PBF-ND	10th Order Linear Phase Low Pass Filter*	8-SOIC	11.50	7.64	5.90
LTC1569CS8-7#PBF-ND	10th Order Linear Phase Low Pass Filter*	8-SOIC	12.25	8.14	6.30
LTC6602CUF#PBF-ND	Dual Matched, High Freq. Bandpass/LowPass Filter*	24-QFN	14.75	9.90	8.40
LTC6602IUF#PBF-ND	Dual Matched, High Freq. Bandpass/LowPass Filter*	24-QFN	16.98	11.41	9.70

POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Regulators				
LT317AT#PBF-ND	Adjustable Positive Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1020CN#PBF-ND	Micropower Voltage Regulator/Comparator*	14-Dip	6.88	4.58	3.90
LT1020CSW#PBF-ND	Micropower Voltage Regulator/Comparator*	16-SOIC	7.50	5.00	4.25
LT1070CT#PBF-ND	5A High Power Switching Regulator*	TO-220-5	10.88	7.23	5.65
LT1070HVCT#PBF-ND	5A High Power Switching Regulator*	TO-220-5	14.00	9.30	7.35
LT1071CT#PBF-ND	2.5A High Power Switching Regulator*	TO-220-5	8.88	5.90	4.75
LT1071HVCT#PBF-ND	2.5A High Power Switching Regulator*	TO-220-5	11.50	7.64	6.20
LT1072CN8#PBF-ND	1.25A High Efficiency Switching Regulator*	8-Dip	4.70	3.13	2.45
LT1072CS8#PBF-ND	1.25A High Efficiency Switching Regulator*	8-SOIC	5.80	3.86	3.00
LT1072CT#PBF-ND	1.25A High Efficiency Switching Regulator*	TO-220-5	5.88	3.91	2.95
LT1072HVCT#PBF-ND	1.25A High Efficiency Switching Regulator*	TO-220-5	7.63	5.07	3.85
LT1072IN8-ND	1.25A High Efficiency Switching Regulator	8-Dip	6.60	4.39	3.45
LT1073CN8#PBF-ND	Adjustable DC/DC Converter*	8-Dip	5.50	3.67	3.15
LT1073CS8-5#PBF-ND	5V Fixed DC/DC Converter*	8-SOIC	6.38	4.25	3.60
LT1074CT#PBF-ND	5A Step-Down Switching Regulator*	TO-220-5	10.10	6.71	5.25
LT1074CT7#PBF-ND	5A Step-Down Switching Regulator*	TO-220-7	11.80	7.84	6.10
LT1074HVCT#PBF-ND	5A Step-Down Switching Regulator*	TO-220-5	15.20	10.10	7.90
LT1074HVCT7#PBF-ND	5A Step-Down Switching Regulator*	TO-220-7	16.80	11.16	8.75
LT1074HVIT-ND	5A Step-Down Switching Regulator, Ind. Temp.	TO-220-5	20.50	13.62	10.65
LT1074HVIT#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-5	20.50	13.62	10.65
LT1074HVIT7#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-7	21.60	14.35	11.20
LT1074IT#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-5	13.70	9.10	7.10
LT1074IT7#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-7	14.70	9.77	7.65
LT1076CQ#PBF-ND	2A Step-Down Switching Regulator*	5-DD	7.75	5.15	4.00
LT1076CQ-5#PBF-ND	2A Step-Down Switching Regulator*	5-DD	7.75	5.15	4.00

POWER MANAGEMENT

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1076CR-ND	2A Step-Down Switching Regulator	7-DD	8.38	5.57	4.35
LT1076CR#PBF-ND	2A Step-Down Switching Regulator*	7-DD	8.38	5.57	4.35
LT1076CR-5#PBF-ND	2A Step-Down Switching Regulator*	7-DD	8.38	5.57	4.35
LT1076CT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	6.75	4.49	3.50
LT1076CT-5#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	6.75	4.49	3.50
LT1076CT7#PBF-ND	2A Step-Down Switching Regulator*	TO-220-7	7.75	5.15	4.00
LT1076HVCR#PBF-ND	2A Step-Down Switching Regulator*	7-DD	14.38	9.55	7.65
LT1076HVCT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	11.63	7.72	6.05
LT1076HVCT-5#PBF-ND	2A Step-Down 5V Switching Regulator*	TO-220-5	11.63	7.72	6.05
LT1076HVIT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	13.63	9.05	7.65
LT1076IT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	9.13	6.06	5.05
LT1082CN8-ND	1A High Voltage, High Efficiency Switching Reg.	8-Dip	8.13	5.42	4.60
LT1082CN8#PBF-ND	1A High Voltage, High Efficiency Switching Reg.*	8-Dip	8.13	5.42	4.60
LT1082CT#PBF-ND	1A High Volt., High Efficiency Switching Reg.*	TO-220-5	9.63	6.40	5.35
LT1082IQ#PBF-ND	1A High Volage, High Efficiency Switching Reg.*	5-DD	11.88	7.89	6.65
LT1082IT#PBF-ND	1A High Volt., High Efficiency Switching Reg.*	TO-220-5	11.13	7.39	6.20
LT1083CP#PBF-ND	Adjustable 7.5A LDO Voltage Regulator*	TO-3P	14.70	9.77	7.70
LT1083CP-5#PBF-ND	Fixed 5V, 7.5A LDO Voltage Regulator*	TO-3P	14.70	9.77	7.70
LT1084CP#PBF-ND	Adjustable 5A LDO Voltage Regulator*	TO-3P	9.13	6.06	5.00
LT1084CP-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator*	TO-3P	9.13	6.06	5.00
LT1084CT#PBF-ND	Adjustable 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-3.3#PBF-ND	Fixed 3.3V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-12#PBF-ND	Fixed 12V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084IT#PBF-ND	Adjustable 5A LDO Voltage Reg., Ind. Temp.*	TO-220	10.25	6.81	5.70
LT1085CM#PBF-ND	Adjustable 3A LDO Voltage Regulator*	3-DDPAK	7.38	4.90	4.00
LT1085CM-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator*	3-DDPAK	7.38	4.90	4.00
LT1085CT#PBF-ND	Adjustable 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-5#PBF-ND	Fixed 5V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-12#PBF-ND	Fixed 12V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1086CM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	3-DD	4.25	2.83	2.30
LT1086CM-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	3-DD	4.25	2.83	2.30
LT1086CT#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-5#PBF-ND	Fixed 5V, 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-12#PBF-ND	Fixed 12V, 1.5A LD O Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086IM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	3-DD	4.88	3.24	2.55
LT1086IM-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	3-DD	4.88	3.24	2.55
LT1105CN8-ND	Offline Switching Regulator	8-Dip	7.13	4.75	3.75
LT1105CN8#PBF-ND	Offline Switching Regulator*	8-Dip	7.13	4.75	3.75
LT1107CS8-ND	Adjustable Output DC/DC Converter	8-SOIC	4.38	2.91	2.40
LT1107CS8#PBF-ND	Adjustable Output DC/DC Converter*	8-SOIC	4.38	2.91	2.40
LT1107CS8-5#PBF-ND	Fixed 5V Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1107CS8-12#PBF-ND	Fixed 12V Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1107IS8#PBF-ND	Adjustable Output DC/DC Converter, Ind. Temp.*	8-SOIC	5.38	3.60	3.10
LT1108CS8-ND	Micropower Adjustable Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8#PBF-ND	Micropower Adjustable Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1109ACS8-12#PBF-ND	Fixed 12V Output MPU DC/DC Converter*	8-SOIC	4.70	3.13	2.45
LT1109CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.70	3.13	2.45
LT1109CS8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter*	8-SOIC	4.70	3.13	2.45
LT1110CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1110CN8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter*	8-Dip	5.50	3.67	3.15
LT1111CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-Dip	4.60	3.06	2.40
LT1111CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-Dip	4.60	3.06	2.40
LT1111CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.60	3.06	2.40
LT1111CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	5.30	3.52	2.80
LT1111CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-SOIC	5.30	3.52	2.80
LT1111IS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	6.90	4.59	3.60
LT1117CM-5#PBF-ND	Fixed 5V, 800mA LDO Regulator*	3-DDPAK	4.13	2.74	2.20
LT1117CST#PBF-ND	Adjustable, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator	SOT-223	3.88	2.58	1.95
LT1117CST-3.3#PBF-ND	Fixed 3.3V, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117CST-5#PBF-ND	Fixed 5V, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117IST-5#PBF-ND	Fixed 5V, 800mA LDO Regulator*	SOT-223	4.50	2.99	2.25
LT1118CS8#PBF-ND	Adjustable, 800mA LDO Reg. with 400mA Isink*	8-SOIC	5.50	3.66	2.95
LT1118CS8-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink*	8-SOIC	5.50	3.66	2.95
LT1118CS8-2.85-ND	Fixed 2.85V, 800mA LDO Reg. with 400mA Isink	8-SOIC	5.10	3.39	2.75
LT1118CST-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink*	SOT-223	5.00	3.32	2.65
LT1118CST-5#PBF-ND	Fixed 5V, 800mA LDO Reg. with 400mA Isink*	SOT-223	5.00	3.32	2.65
LT1120ACN8-ND	µPwr Reg. with Comparator and Shutdown	8-Dip	5.10	3.39	2.60
LT1120ACN8#PBF-ND	µPwr Reg. with Comparator and Shutdown*	8-Dip	5.10	3.39	2.60
LT1120ACS8#PBF-ND	µPwr Reg. with Comparator and Shutdown*	8-SOIC	5.90	3.92	3.15
LT1120CN8#PBF-ND	µPwr Reg. with Comparator and Shutdown*	8-Dip	4.70	3.13	2.40
LT1120CS8#PBF-ND	µPwr Reg. with Comparator and Shutdown*	8-SOIC	5.50	3.66	2.80
LT1121ACS8#PBF-ND	Adj. µPwr LDO Regulator with Shutdown*	8-SOIC	3.90	2.59	2.00
LT1121ACS8-5-ND	5V µPwr LDO Regulator with Shutdown	8-SOIC	3.90	2.59	2.00
LT1121ACS8-5#PBF-ND	5V µPwr LDO Regulator with Shutdown*	8-SOIC	3.90	2.59	2.00
LT1121AHVCS8#PBF-ND	Adj. µPwr LDO Regulator with Shutdown*	8-SOIC	4.70	3.13	2.40
LT1121AHVIS8#PBF-ND	Adj. µPwr LDO Regulator with Shutdown*	8-SOIC	5.50	3.66	2.81
LT1121AIS8#PBF-ND	Adj. µPwr LDO Regulator with Shutdown*	8-SOIC	4.60	3.06	2.35
LT1121AIS8-5#PBF-ND	5V µPwr LDO Regulator with Shutdown*	8-SOIC	4.60	3.06	2.35
LT1121CN8#PBF-ND	Adj. µPwr LDO Regulator with Shutdown*	8-Dip	3.00	2.00	1.55
LT1121CN8-3.3#PBF-ND	3.3V, 150mA LDO Regulator with Shutdown*	8-Dip	3.00	2.00	1.55
LT1121CN8-5#PBF-ND	5V, 150mA LDO Regulator with Shutdown*	8-Dip	3.00	2.00	1.55
LT1121CS8#PBF-ND	Adjustable LDO Regulator with Shutdown*	8-SOIC	3.20	2.13	1.70
LT1121CS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	8-SOIC	3.20	2.13	1.70
LT1121CS8-5#PBF-ND	5V LDO Regulator with Shutdown*	8-SOIC	3.20	2.13	1.70
LT1121CST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	SOT-223	3.50	2.33	1.75
LT1121CST-5#PBF-ND	5V LDO Regulator with Shutdown*	SOT-223	3.50	2.33	1.75
LT1121CZ-5#PBF-ND	5V LDO Regulator with Shutdown*	TO92-3	2.60	1.73	1.35
LT1121IS8#PBF-ND	Adjustable LDO Regulator with Shutdown*	8-SOIC	3.90	2.59	2.05
LT1121IS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	8-SOIC	3.90	2.59	2.05
LT1121IS8-5#PBF-ND	5V LDO Regulator with Shutdown*	8-SOIC	3.90	2.59	2.05
LT1121IST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	SOT-223	4.13	2.74	2.10
LT1121IST-5#PBF-ND	5V LDO Regulator with Shutdown*	SOT-223	4.13	2.74	2.10
LT1121IZ-5#PBF-ND	5V LDO Regulator with Shutdown*	TO-92	3.10	2.06	1.60
LT1129CQ#PBF-ND	Adjustable, 700mA LDO Reg. with Shutdown*	5-DDPAK	4.88	3.24	2.55
LT1129CQ-3.3#PBF-ND	3.3V, 700mA LDO Reg. with Shutdown*	5-DDPAK	4.88	3.24	2.55
LT1129CQ-5#PBF-ND	5V, 700mA LDO Reg. with Shutdown*	5-DDPAK	4.88	3.24	2.55
LT1129CS8#PBF-ND	Adjustable, 700mA LDO Reg. with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	SOT-223	4.50	2.99	2.35
LT1129CST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	SOT-223	4.50	2.99	2.35
LT1129CT#PBF-ND	Adj., 700mA LDO Regulator with Shutdown*	TO-220-5	4.25	2.83	2.25
LT1129CT-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	TO-220-5	4.25	2.83	2.25

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1129IQ#PBF-ND	Adjustable, 700mA LDO Reg. with Shutdown*	5-DDPAK	5.75	3.82	3.05
LT1129IQ-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	5-DDPAK	5.75	3.82	3.05
LT1129IS8#PBF-ND	Adjustable, 700mA LDO Reg. with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	SOT-223	5.00	3.32	2.70
LT1129IST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	SOT-223	5.00	3.32	2.70
LT1170CQ#PBF-ND	5A, 100kHz High Efficiency Switching Regulator*	5-DD	11.63	7.72	6.05
LT1170CT#PBF-ND	5A, 100kHz High Efficiency Switching Reg.*	TO-220-5	10.88	7.23	5.65
LT1170HVCQ#PBF-ND	5A, 100kHz, High Volt., High Eff., Switching Reg.*	5-DD	14.63	9.72	8.25
LT1170HVCQTR-ND	5A, 100kHz, High Volt., High Eff., Switching Reg.	5-DD	6346.17/750		
LT1170HVCT#PBF-ND	5A, 100kHz, High Volt., High Eff., Switching Reg.*	TO-220-5	14.00	9.30	7.35
LT1170IQ#PBF-ND	5A, 100kHz High Efficiency Switching Regulator*	5-DD	14.50	9.63	8.50
LT1171CQ#PBF-ND	3A, 100kHz High Efficiency Switching Regulator*	5-DD	9.63	6.40	5.20
LT1171CT#PBF-ND	3A, 100kHz High Efficiency Switching Reg.*	TO-220-5	8.88	5.90	4.75
LT1171HVCQ#PBF-ND	2.5A, 100kHz, High Eff. Switching Regulator*	5-DD	12.00	7.97	6.70
LT1171HVCT#PBF-ND	2.5A, 100kHz, High Eff. Switching Regulator*	TO-220-5	11.50	7.64	6.20
LT1171IQ#PBF-ND	2.5A, 100kHz High Efficiency Switching Reg.*	5-DD	10.50	6.98	5.45
LT1172CN8#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	8-Dip	4.70	3.13	2.45
LT1172CQ#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	5-DD	6.90	4.59	3.55
LT1172CS8#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	8-SOIC	5.80	3.86	3.00
LT1172CT#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	TO-220-5	5.88	3.91	2.95
LT1172HVCQ-ND	1.25A, 100kHz, High Eff. Switching Regulator	5-DD	9.38	6.52	5.37
LT1172HVCQ#PBF-ND	1.25A, 100kHz, High Eff. Switching Regulator*	5-DD	9.38	6.52	5.37
LT1172HVCT#PBF-ND	1.25A, 100kHz, High Efficiency Switching Reg.*	TO-220-5	7.63	5.07	3.85
LT1172IN8#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	8-Dip	6.60	4.39	3.45
LT1173CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-Dip	4.60	3.06	2.40
LT1173CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-Dip	4.60	3.06	2.40
LT1173CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.60	3.06	2.40
LT1173CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	5.30	3.52	2.80
LT1173CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-SOIC	5.30	3.52	2.80
LT1175CN8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-Dip	5.00	3.32	2.55
LT1175CN8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-Dip	5.00	3.32	2.55
LT1175CQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	5-DDPAK	6.40	4.25	3.25
LT1175CQ-5#PBF-ND	5V, 500mA Negative LDO Regulator*	5-DDPAK	6.40	4.25	3.25
LT1175CS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-SOIC	5.80	3.86	3.00
LT1175CS8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-SOIC	5.80	3.86	3.00
LT1175CST-5#PBF-ND	5V, 500mA Negative LDO Regulator*	SOT-223	5.20	3.46	2.80
LT1175CT#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	TO-220-5	6.10	4.06	3.15
LT1175CT-5#PBF-ND	5V, 500mA Negative LDO Regulator*	TO-220-5	6.10	4.06	3.15
LT1175IQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	5-DDPAK	8.20	5.45	4.30
LT1175IST-5#PBF-ND	5V, 500mA Negative Low Dropout Regulator*	SOT-223	5.70	3.79	3.10
LT1175IS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-SOIC	7.60	5.05	3.90
LT1175IS8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-SOIC	7.60	5.05	3.90
LT1176CN8#PBF-ND	Adjustable, 1A Step-Down Switching Regulator*	8-Dip	5.63	3.75	3.20
LT1176CN8-5#PBF-ND	5V, 1A Step-Down Switching Regulator*	8-Dip	5.63	3.75	3.20
LT1176CSW#PBF-ND	Adjustable, 1A Step-Down Switching Regulator*	20-SOIC	8.13	5.42	4.35
LT1176CSW-5#PBF-ND	5V, 1A Step-Down Switching Regulator*	20-SOIC	8.13	5.42	4.35
LT1185CT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator*	TO-220-5	6.75	4.49	3.70
LT1185IT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator*	TO-220-5	9.00	5.98	4.90
LT1268CT#PBF-ND	7.5A, 150kHz Switching Regulator*	TO-220-5	11.63	7.72	6.50
LT1269CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	9.13	6.06	4.90
LT1269CT#PBF-ND	4A, High Efficiency, Power Switching Regulator*	TO-220-5	9.13	6.06	4.90
LT1270ACT#PBF-ND	10A, High Efficiency, Power Switching Reg.*	TO-220-5	16.00	10.63	8.90
LT1270CT#PBF-ND	8A, High Efficiency, Power Switching Reg.*	TO-220-5	10.88	7.23	5.65
LT1271CQ-ND	4A, High Efficiency, Power Switching Regulator	5-DD	9.63	6.40	5.20
LT1271CQ#PBF-ND	4A, High Efficiency, Power Switching Regulator*	5-DD	9.63	6.40	5.20
LT1271CT#PBF-ND	4A, High Efficiency, Power Switching Reg.*	TO-220-5	8.88	5.90	4.75
LT1300CN8#PBF-ND	3.3V/5V, High Eff., Step-Up DC/DC Converter*	8-Dip	5.00	3.33	2.60
LT1301CS8#PBF-ND	5V/12V, High Eff., Step-Up DC/DC Converter*	8-SOIC	4.75	3.17	2.50
LT1302CS8#PBF-ND	Adj., High Efficiency, Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.50
LT1302CS8-5#PBF-ND	5V, High Efficiency, Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.50
LT1303CN8#PBF-ND	Adjustable, Step-Up DC/DC Converter*	8-Dip	4.75	3.16	2.50
LT1303CN8-5-ND	5V, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-Dip	4.75	3.16	2.50
LT1303CS8#PBF-ND	Adjustable, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1303CS8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1304CS8-5-ND	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1305CS8#PBF-ND	µPwr High Power Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.65
LT1307BCS8#PBF-ND	Single µPwr 600kHz PWM DC/DC Converter*	8-SOIC	4.13	2.75	2.20
LT1307CS8#PBF-ND	Single µPwr 600kHz PWM DC/DC Converter*	8-SOIC	4.13	2.75	2.20
LT1308ACS8#PBF-ND	Single High Current, µPwr 600kHz DC/DC Conv.*	8-SOIC	6.50	4.32	3.50
LT1308BCS8#PBF-ND	Single High Current, µPwr 600kHz DC/DC Conv.*	8-SOIC	6.50	4.32	3.50
LT1308CS8-ND	High Current, LP Single Cell 600kHz DC/DC Conv.	8-SOIC	6.88	4.57	3.65
LT1308CS8#PBF-ND	High Curr., LP Single Cell 600kHz DC/DC Conv.*	8-SOIC	6.88	4.57	3.65
LT1310EMSE#PBF-ND	1.5A Boost DC/DC Converter with PLL*	10-MSOP	5.70	3.79	2.91
LT1316CMS8#PBF-ND	Micropower Step-Up DC/DC Converter*	8-MSOP	5.38	3.57	2.95
LT1316CS8#PBF-ND	Micropower Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1317BCMS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter*	8-MSOP	4.88	3.24	2.55
LT1317BCS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317BIS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter*	8-SOIC	5.63	3.74	3.00
LT1317CMS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter*	8-MSOP	4.88	3.24	2.55
LT1317CS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter*	8-SOIC	4.38	2.91	2.30
LT1339CN#PBF-ND	High Power Synchronous DC/DC Controller*	20-Dip	9.13	6.10	5.20
LT1339CSW#PBF-ND	High Power Synchronous DC/DC Controller*	20-SOIC	9.38	6.25	5.35
LT1339ISW#PBF-ND	High Power Synchronous DC/DC Controller*	20-SOIC	11.25	7.50	6.45
LT1370CR#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.*	7-DD	12.13	8.06	6.40
LT1370CT7#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.*	TO-220-7	11.88	7.89	6.25
LT1370HVCR#PBF-ND	500kHz, High Efficiency, 6A Switching Regulator*	7-DD	13.75	9.13	7.25
LT1370HVCT7#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.*	TO-220-7	13.50	8.97	7.10
LT1370HVIR#PBF-ND	500kHz, High Efficiency, 6A Switching Regulator*	7-DD	16.38	10.88	8.65
LT1370IR#PBF-ND	500kHz, High Eff. 6A Switching Reg., Ind. Temp.*	7-DD	14.50	9.63	7.65
LT1371CR#PBF-ND	500kHz, High Efficiency, 3A Switching Regulator*	7-DD	9.88	6.56	5.50
LT1371HVCR#PBF-ND	500kHz, High Efficiency, 3A Switching Regulator*	7-DD	10.50	6.98	5.85
LT1371IR#PBF-ND	500kHz, High Eff. 3A Switching Reg., Ind. Temp.*	7-DD	11.75	7.81	6.55
LT1372CN8-ND	500kHz, High Efficiency, 1.5A Switching Reg.	8-Dip	7.00	4.65	3.70
LT1372CN8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.*	8-Dip	7.00	4.65	3.70
LT1372CS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.*	8-SOIC	7.30	4.85	3.85
LT1372HVCS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.*	8-SOIC	7.90	5.25	4.20
LT1372IS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.*	8-SOIC	8.70	5.78	4.65
LT1373CN8-ND	250kHz, High Efficiency, 1.5A Switching Reg.	8-Dip	7.00	4.65	3.70
LT1373CN8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Reg.*	8-Dip	7.00	4.65	3.70
LT1373CS8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Reg.*	8-SOIC	7.30	4.85	3.85
LT1373IS8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Reg.*	8-SOIC	8.70	5.78	4.65
LT1374CFE#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switch. Reg.*	16-TSSOP	9.10	6.05	4.64
LT1374CR#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	7-DD	10.25	6.81	5.13

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1374CR-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.*	7-DD	10.25	6.81	5.13
LT1374CS8#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	8-SOIC	9.38	6.23	4.70
LT1374CS8-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.*	8-SOIC	9.38	6.23	4.70
LT1374CS8-5SYNC-ND	5V, 500kHz, 4.5A, Sync. Step-Dn Switching Reg.	8-SOIC	9.38	6.23	4.70
LT1374CT7#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	TO-220-7	10.00	6.64	5.00
LT1374CT7-5-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.	TO-220-7	10.00	6.64	5.00
LT1374CT7-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.*	TO-220-7	10.00	6.64	5.00
LT1374HVCFE-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.	16-TSSOP	10.00	6.64	5.10
LT1374HVCFE#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	16-TSSOP	10.00	6.64	5.10
LT1374HVCS8#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	8-SOIC	10.38	6.89	5.20
LT1374IR#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.*	7-DD	11.75	7.81	5.88
LT1374IR-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.*	7-DD	11.75	7.81	5.88
LT1375CS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	6.50	4.32	3.40
LT1375CS8-5#PBF-ND	5V, 500kHz, 1.5A Step-Down Switching Reg.*	8-SOIC	7.30	4.85	3.85
LT1375IS8#PBF-ND	Adj., 500kHz, 1.5A Step-Down, Switching Reg.*	8-SOIC	7.75	5.15	4.10
LT1376CN8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Reg.*	8-Dip	6.50	4.35	3.70
LT1376CS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	6.50	4.32	3.40
LT1376CS8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	6.75	4.49	3.85
LT1376HVCS8-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.	8-SOIC	7.13	4.74	3.75
LT1376HVCS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	7.13	4.74	3.75
LT1376HVIS-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.	16-SOIC	9.50	6.31	5.00
LT1376HVIS8#PBF-ND	Adj., 500kHz, 1.5A Step-Down Swithcing Reg.*	8-SOIC	8.63	5.73	4.55
LT1376IS#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.*	16-SOIC	8.63	5.73	4.55
LT1376IS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	7.75	5.15	4.10
LT1376IS8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Reg.*	8-SOIC	8.13	5.40	4.65
LT1377CS8#PBF-ND	1MHz, 1.5A, High Efficiency Switching Regulator*	8-SOIC	7.88	5.25	4.50
LT1377IS8#PBF-ND	1MHz, 1.5A High Eff. Switching Reg., Ind. Temp.*	8-SOIC	9.50	6.35	5.40
LT1424CN8-9-ND	Isolated Flyback Switch Regulator	8-Dip	5.88	3.91	3.10
LT1424IN8-9-ND	Isolated Flyback Switch Regulator, Ind. Temp.	8-Dip	7.38	4.90	4.30
LT1424IS8-5-ND	Isolated Flyback Switch Regulator, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1424IS8-5#PBF-ND	Isolated Flyback Switch Regulator, Ind. Temp.*	8-SOIC	7.63	5.07	4.45
LT1425CS-ND	Isolated Flyback Switch Regulator	16-SOIC	5.88	3.91	3.10
LT1425CS#PBF-ND	Isolated Flyback Switch Regulator*	16-SOIC	5.88	3.91	3.10
LT1425IS#PBF-ND	Isolated Flyback Switch Regulator, Ind. Temp.*	16-SOIC	7.38	4.90	4.20
LT1506CR-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.*	7-DD	10.25	6.81	5.13
LT1506CS8-ND	500kHz, 4.5A, Step-Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator*	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.*	8-SOIC	9.38	6.23	4.70
LT1506IR#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator*	7-DD	11.75	7.81	5.88
LT1506IS8-ND	500kHz, 4.5A, Step-Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator*	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.*	8-SOIC	10.75	7.14	5.40
LT1507CS8#PBF-ND	500kHz, Monolithic Buck Mode Switching Reg.*	8-SOIC	7.30	4.85	3.85
LT1507CS8-3.3#PBF-ND	500kHz, 3.3V Mono Buck Mode Switching Reg.*	8-SOIC	7.40	4.92	3.85
LT1521CMS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator*	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator*	8-MSOP	4.63	3.08	2.35
LT1521CS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator*	8-SOIC	4.13	2.75	2.50
LT1521CS8-3#PBF-ND	3V, 300mA, LDO Voltage Regulator*	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator*	8-SOIC	4.13	2.75	2.50
LT1521CS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator*	8-SOIC	4.13	2.75	2.50
LT1521CST-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator*	SOT-223	4.13	2.74	2.07
LT1521CST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator*	SOT-223	4.13	2.74	2.07
LT1521IS8-3.3#PBF-ND	3.3V, 300mA LDO Voltage Regulator*	8-SOIC	5.00	3.35	2.85
LT1521IS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator*	8-SOIC	5.00	3.35	2.85
LT1521IST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator*	SOT-223	5.00	3.32	2.70
LT1528CQ#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	5-DDPAK	7.38	4.90	4.10
LT1528CT#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	TO-220-5	6.75	4.49	3.75
LT1529CQ#PBF-ND	Adj., 3A, LDO Voltage Reg. with Shutdown*	5-DDPAK	7.38	4.90	3.69
LT1529CQ-3.3#PBF-ND	3.3V, 3A, LDO Voltage Reg. with Shutdown*	5-DDPAK	7.38	4.90	3.69
LT1529CQ-5#PBF-ND	5V, 3A, LDO Voltage Reg. with Shutdown*	5-DDPAK	7.38	4.90	3.69
LT1529CT#PBF-ND	Adj., 3A, LDO Voltage Reg. with Shutdown*	TO-220-5	6.75	4.49	3.38
LT1529CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.75	4.49	3.38
LT1529CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Reg. with Shutdown*	TO-220-5	6.75	4.49	3.38
LT1529CT-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.75	4.49	3.38
LT1529CT-5#PBF-ND	5V, 3A, LDO Voltage Regulator with Shutdown*	TO-220-5	6.75	4.49	3.38
LT1533CS#PBF-ND	1A, Ultra Low Noise Switching Regulator*	16-SOIC	9.25	6.15	4.85
LT1533IS#PBF-ND	1A, Ultra Low Noise Switching Regulator*	16-SOIC	11.50	7.65	6.55
LT1573CS8-ND	Adjustable LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8#PBF-ND	Adjustable LDO Regulator Driver*	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5-ND	2.5V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5#PBF-ND	2.5V, LDO Regulator Driver*	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.8-ND	2.8V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-3.3-ND	3.3V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1575CN8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CS8-ND	Ultrafast Transient Response Low Dropout Reg.	8-SOIC	4.75	3.16	2.70
LT1575CS8#PBF-ND	Ultrafast Transient Response Low Dropout Reg.*	8-SOIC	4.75	3.16	2.70
LT1575CS8-2.8-ND	2.8V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1576CS8#PBF-ND	1.5A, 200kHz, Step-Down Switching Regulator*	8-SOIC	5.75	3.82	2.95
LT1579CGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CS-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS8-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1580CQ-ND	Adj., 7A, High-Speed LDO Voltage Regulator	5-DDPAK	11.75	7.81	5.88
LT1580CQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator*	5-DDPAK	11.75	7.81	5.88
LT1580CR-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator*	7-DDPAK	12.13	8.06	6.07
LT1580CT#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator*	TO-220-5	11.50	7.64	5.75
LT1580CT7-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Regulator	TO-220-7	11.88	7.89	5.94
LT1580IQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator*	5-DDPAK	14.00	9.30	7.00
LT1580IR-2.5-ND	2.5V, 7A, High-Speed LDO Volt. Reg. Ind. Temp.	7-DDPAK	14.25	9.47	7.13
LT1580IR-2.5#PBF-ND	2.5V, 7A, HS LDO Voltage Regulator Ind. Temp.*	7-DDPAK	14.25	9.47	7.13
LT1581CT7#PBF-ND	Adj., 10A, LDO Voltage Regulator*	TO-220-7	13.38	8.89	7.50
LT1584CT#PBF-ND	Adj., 7A, LDO Voltage Regulator*	TO-220	10.88	7.23	6.05
LT1584CT-3.3#PBF-ND	3.3V, 7A, LDO Voltage Regulator*	TO-220	10.88	7.23	6.05
LT1584CT-3.38-ND	3.38V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1585ACT-1.5#PBF-ND	1.5V, 5A, LDO Voltage Regulator*	TO-220-3	7.75	5.15	4.25
LT1585CM#PBF-ND	Adj., 4.6A, LDO Voltage Regulator*	3-DDPAK	8.00	5.32	4.30
LT1585CM-3.3#PBF-ND	3.3V, 4.6A, LDO Voltage Regulator*	3-DDPAK	8.00	5.32	4.30
LT1585CT-3.3#PBF-ND	3.3V, 4A, LDO Voltage Regulator*	TO-220	7.38	4.90	4.00
LT1585CT-3.38-ND	3.38V, 4A, LDO Voltage Regulator	TO-220	7.38	4.90	4.00
LT1587CM#PBF-ND	Adj., 3A, LDO Voltage Regulator*	3-DDPAK	6.75	4.49	3.70
LT1587CM-1.5#PBF-ND	1.5V, 3A, LDO Voltage Regulator*	3-DDPAK	6.75	4.49	3.70
LT1587CM-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	3-DDPAK	6.75	4.49	3.70
LT1587CT#PBF-ND	Adj. 3A, LDO Voltage Regulator*	TO-220	6.13	4.07	3.35

* RoHS Compliant

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1587CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	TO-220	6.13	4.07	3.35
LT1610CMS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-MSOP	4.13	2.74	2.10
LT1610CS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-SOIC	3.50	2.33	1.75
LT1610IS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-SOIC	4.25	2.83	2.25
LT1611CS5#TRMPBFCT-ND	1.4MHz, Inverting Switching Regulator*	SOT-23-5	4.70	4.20	3.78
LT1611CS5#TRMPBFTR-ND	1.4MHz, Inverting Switching Regulator*	SOT-23-5	1100.00/500		
LT1613CS5#TRMPBFCT-ND	1.4MHz, Single Cell DC/DC Controller*	TSOT-23-5	4.14	3.70	3.33
LT1613CS5#TRMPBFTR-ND	1.4MHz, Single Cell DC/DC Controller*	TSOT-23-5	925.00/500		
LT1614CMS8-ND	600kHz, Inverting Switching Regulator	8-MSOP	5.50	3.66	2.80
LT1614CMS8#PBF-ND	600kHz, Inverting Switching Regulator*	8-MSOP	5.50	3.66	2.80
LT1614CS8#PBF-ND	600kHz, Inverting Switching Regulator*	8-SOIC	5.00	3.32	2.55
LT1615ES5#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	4.14	3.70	3.33
LT1615ES5#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	925.00/500		
LT1615ES5-1#TR-ND	Micropower Step-Up DC/DC Converter	TSOT-23-5	4500.00/2,500		
LT1615ES5-1#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	4.14	3.70	3.33
LT1615ES5-1#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	925.00/500		
LT1615IS5#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	4.70	4.20	3.78
LT1615IS5#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	TSOT-23-5	1050.00/500		
LT1616ES6#TRMPBFCT-ND	1.4MHz, Step-Down Switching Regulator*	SOT-23-6	4.70	4.20	3.78
LT1616ES6#TRMPBFTR-ND	1.4MHz, Step-Down Switching Regulator*	SOT-23-6	1050.00/500		
LT1617ES5#TRMPBFCT-ND	Micropower Inverting DC/DC Converter*	TSOT-23-5	4.14	3.70	3.33
LT1617ES5#TRMPBFTR-ND	Micropower Inverting DC/DC Converter*	TSOT-23-5	925.00/500		
LT1618EMS#PBF-ND	1.4MHz, Step-Up DC/DC Converter*	10-MSOP	3.50	2.33	1.86
LT1619EMS8#PBF-ND	300kHz, 2-Cell Current Mode PWM Controller*	8-MSOP	4.50	2.99	2.25
LT1619EMS8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP	5937.50/2,500		
LT1619ES8#PBF-ND	300kHz, 2-Cell Current Mode PWM Controller*	8-SOIC	4.25	2.83	2.13
LT1619ES8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	5638.23/2,500		
LT1676CS8#PBF-ND	High Efficiency, Step-Down Switching Regulator*	8-SOIC	5.38	3.57	2.85
LT1676IS8#PBF-ND	High Eff., Step-Down Switching Reg., Ind. Temp.*	8-SOIC	6.25	4.15	3.35
LT1680CN#PBF-ND	High Power DC/DC Step-Up Controller*	16-Dip	8.00	5.32	4.25
LT1680CSW#PBF-ND	High Power DC/DC Step-Up Controller*	16-SOIC	8.38	5.57	4.45
LT1680ISW#PBF-ND	High Power DC/DC Step-Up Controller*	16-SOIC	10.00	6.64	5.35
LT1681ESW#PBF-ND	Dual Transistor Sync. Forward Controller*	20-SOIC	10.63	7.06	5.32
LT1683EG#PBF-ND	Ultra Low Noise Push-Pull DC/DC Controller*	20-SSOP	9.63	6.40	4.85
LT1725IS#PBF-ND	General Purpose Isolated Flyback Controller*	16-SOIC	7.00	4.65	3.50
LT1737IGN#PBF-ND	High Power Isolated Flyback Controller*	16-SSOP	7.25	4.82	3.63
LT1738EG#PBF-ND	Ultra Low Noise DC/DC Controller*	20-SSOP	8.63	5.73	4.32
LT1761ES5-BYP#TRMPBFCT-ND	Adj., 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-BYP#TRMPBFTR-ND	Adj., 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-1.5#TRMPBFCT-ND	1.5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-1.5#TRMPBFTR-ND	1.5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-1.8#TRMPBFCT-ND	1.8V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-1.8#TRMPBFTR-ND	1.8V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-2.5#TRMPBFCT-ND	2.5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-2.5#TRMPBFTR-ND	2.5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-2.8#TRMPBFCT-ND	2.8V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-2.8#TRMPBFTR-ND	2.8V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-3#TRMPBFCT-ND	3V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-3#TRMPBFTR-ND	3V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-3.3#TRMPBFCT-ND	3.3V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-3.3#TRMPBFTR-ND	3.3V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-5#TRMPBFCT-ND	5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-5#TRMPBFTR-ND	5V, 100mA, Low Noise LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761ES5-SD#TRMPBFCT-ND	Adj.,100mA, Low Noise, LDO MPU Regulator*	TSOT-23-5	2.38	2.13	1.92
LT1761ES5-SD#TRMPBFTR-ND	Adj.,100mA, Low Noise, LDO MPU Regulator*	TSOT-23-5	531.25/500		
LT1761IS5-1.2#TRMPBFCT-ND	1.2V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-1.2#TRMPBFTR-ND	1.2V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-1.5#TRMPBFCT-ND	1.5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-1.5#TRMPBFTR-ND	1.5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-1.8#TRMPBFCT-ND	1.8V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-1.8#TRMPBFTR-ND	1.8V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-2.0#TRMPBFCT-ND	2V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-2.5#TRMPBFCT-ND	2.5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-2.5#TRMPBFTR-ND	2.5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-2.8#TRMPBFCT-ND	2.8V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-2.8#TRMPBFTR-ND	2.8V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-3#TRMPBFCT-ND	3V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-3#TRMPBFTR-ND	3V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-3.3#TRMPBFCT-ND	3.3V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-3.3#TRMPBFTR-ND	3.3V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-5#TRMPBFCT-ND	5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-5#TRMPBFTR-ND	5V,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-BYP#TRMPBFCT-ND	Adj.,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-BYP#TRMPBFTR-ND	Adj.,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1761IS5-SD#TRMPBFCT-ND	Adj.,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	2.60	2.33	2.10
LT1761IS5-SD#TRMPBFTR-ND	Adj.,100mA, Low Noise LDO MPU Reg.* ***NEW!***	TSOT-23-5	640.00/500		
LT1762EMS8#PBF-ND	Adj., 150mA, Low Noise LDO MPU Regulator*	8-MSOP	2.38	1.58	1.19
LT1762EMS8-5#PBF-ND	5V, 150mA, Low Noise LDO MPU Regulator*	8-MSOP	2.38	1.58	1.19
LT1763CS8#PBF-ND	Adj., 500mA, Low Noise LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-2.5#PBF-ND	2.5V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-3.3#PBF-ND	3.3V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-5#PBF-ND	5V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763IDE#PBF-ND	Adj., 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IDE-1.8#PBF-ND	1.8V, 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IDE-2.5#PBF-ND	2.5V, 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IDE-3#PBF-ND	3V, 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IDE-3.3#PBF-ND	3.3V, 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IDE-5#PBF-ND	5V, 500mA, Low Noise, LDO MPU Reg.* ***NEW!***	12-DFN	4.58	3.07	2.61
LT1763IS8-1.8#PBF-ND	1.8V, 500mA, Low Noise, LDO MPU Reg.*	8-SOIC	4.58	3.07	2.61
LT1764AEQ#PBF-ND	Adj., 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764AEQ-1.5-ND	1.5V, 3A, Fast Transient Response, LDO Reg.	5-DDPAK	7.38	5.09	4.19
LT1764AEQ-1.5#PBF-ND	1.5V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764AEQ-1.8#PBF-ND	1.8V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764AEQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764AEQ-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764AET#PBF-ND	Adj., 3A, Fast Transient Response, LDO Reg.*	TO-220-5	7.38	5.09	4.19
LT1764AET-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, LDO Reg.*	TO-220-5	7.38	5.09	4.19
LT1764EQ#PBF-ND	Adj., 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764EQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1764EQ-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, LDO Reg.*	5-DDPAK	7.38	5.09	4.19
LT1765EFE#PBF-ND	3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8-ND	1.8V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8#PBF-ND	1.8V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-2.5-ND	2.5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-2.5#PBF-ND	2.5V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-3.3#PBF-ND	3.3V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-5-ND	5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1765EFE-5#PBF-ND	5V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765ES8#PBF-ND	3A-Step-Down Switching Regulator*	8-SOIC	9.58	6.36	4.79
LT1766EFE#PBF-ND	1.5A, 200kHz Step-Down Switching Regulator*	16-TSSOP	7.50	5.36	4.41
LT1766EGN#PBF-ND	1.5A, 200kHz Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1766EGN-5#PBF-ND	1.5A, 200kHz Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1766IGN#PBF-ND	1.5A, 200kHz Step-Down Switching Regulator*	16-SSOP	9.00	5.98	4.50
LT1767EMS8#PBF-ND	Adj., Mono 1.5A Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5-ND	2.5V, Mono 1.5A MHz Step-Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5#PBF-ND	2.5V, Mono 1.5A Step-Down Switching Reg.*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-3.3#PBF-ND	3.3V, Mono 1.5A Step-Down Switching Reg.*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5#PBF-ND	5V, Mono 1.5A Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8E#PBF-ND	Mono 1.5A Step-Down Switching Reg.*	8-MSOP	6.00	4.29	3.54
LT1767EMS8E-1.8#PBF-ND	1.8V, Mono 1.5A Step-Down Switching Reg.*	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-3.3#PBF-ND	3.3V, Mono 1.5A Step-Down Switching Reg*	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-5#PBF-ND	5V, Mono 1.5A Step-Down Switching Regulator*	8-MSOP	6.10	4.36	3.59
LT1776CN8#PBF-ND	High Eff., Step-Down Switching Regulator*	8-Dip	5.00	3.32	2.65
LT1776CS8#PBF-ND	High Eff., Step-Down Switching Regulator*	8-SOIC	5.25	3.49	2.75
LT1776IS8#PBF-ND	High Eff., Step-Down Switching Regulator*	8-SOIC	6.00	3.99	3.15
LT1777IS#PBF-ND	Low Noise Step-Down Switching Regulator*	16-SOIC	6.25	4.15	3.35
LT1912EDD#PBF-ND	2A, 500kHz, Step-Down Switching Regulator*	10-DFN	5.90	4.21	3.47
LT1912EMSE#PBF-ND	2A, 500kHz, Step-Down Switching Regulator*	10-MSOP	6.10	4.36	3.59
LT1913EDD#PBF-ND	3.5A, 2.4MHz, Step-Down Switching Regulator*	10-DFN	7.75	5.22	4.43
LT1930AES5#TRMPBFCT-ND	2.2MHz, Step-Up DC/DC Converter*	TSOT-23-5	4.70	4.20	3.78
LT1930AES5#TRMPBFTR-ND	2.2MHz, Step-Up DC/DC Converter*	TSOT-23-5	1050.00/500		
LT1930ES5#TRMPBFCT-ND	1.2MHz, Step-Up DC/DC Converter*	TSOT-23-5	4.70	4.20	3.78
LT1930ES5#TRMPBFTR-ND	1.2MHz, Step-Up DC/DC Converter*	TSOT-23-5	1050.00/500		
LT1931AES5#TRMPBFCT-ND	2.2MHz, Inverting DC/DC Converter*	TSOT-23-5	4.98	4.45	4.01
LT1931AES5#TRMPBFTR-ND	2.2MHz, Inverting DC/DC Converter*	TSOT-23-5	1112.50/500		
LT1931ES5#TRMPBFCT-ND	1.2MHz, Inverting DC/DC Converter*	TSOT-23-5	4.98	4.45	4.01
LT1931ES5#TRMPBFTR-ND	1.2MHz, Inverting DC/DC Converter*	TSOT-23-5	1112.50/500		
LT1932ES6#TRMPBFCT-ND	Constant-Current DC/DC LED Driver*	SOT-23-6	4.17	3.73	3.36
LT1932ES6#TRMPBFTR-ND	Constant-Current DC/DC LED Driver*	SOT-23-6	931.25/500		
LT1933ES6#TRMPBFCT-ND	600mA, 500kHz Step-Down Switching Reg.*	TSOT-23-6	4.48	4.00	3.60
LT1933ES6#TRMPBFTR-ND	600mA, 500kHz Step-Down Switching Reg.*	TSOT-23-6	1145.00/500		
LT1934ES6#TRMPBFCT-ND	Micropower Step-Down Switching Reg.*	TSOT-23-6	5.12	4.58	4.12
LT1934ES6#TRMPBFTR-ND	Micropower Step-Down Switching Reg.*	TSOT-23-6	1195.00/500		
LT1935ES5#TRMPBFCT-ND	1.2MHz Boost DC/DC Converter*	TSOT-23-5	5.68	5.08	4.57
LT1935ES5#TRMPBFTR-ND	1.2MHz Boost DC/DC Converter*	TSOT-23-5	1325.00/500		
LT1936EMS8E#PBF-ND	1.4A, 500kHz, Step-Down Switching Regulator*	8-MSOP	5.70	3.93	3.24
LT1937ES5#TRMPBFCT-ND	White LED Step-Up Converter*	TSOT-23-5	3.02	2.70	2.43
LT1937ES5#TRMPBFTR-ND	White LED Step-Up Converter*	TSOT-23-5	765.00/500		
LT1938EDD#PBF-ND	2.2A, 2.8MHz, Step-Down Switching Regulator*	10-DFN	5.50	3.93	3.24
LT1939EDD#PBF-ND	2A, Monolithic Step-Down Regulator*	12-DFN	6.48	4.36	3.70
LT1940EFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Regulator*	16-TSSOP	7.40	5.29	4.35
LT1944-1EMS#PBF-ND	Dual Micropower Step-Up DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1944EMS-ND	Dual Micropower Step-Up DC/ DC Converter	10-MSOP	4.25	2.83	2.13
LT1944EMS#PBF-ND	Dual Micropower Step-Up DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1945EMS#PBF-ND	Dual Micropower DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1946AEMS8E#PBF-ND	2.7MHz Boost DC/DC Converter, 1.5A Switch*	8-MSOP	3.50	2.33	1.86
LT1946EMS8#PBF-ND	1.2MHz Boost DC/DC Converter, 1.5A Switch*	8-MSOP	3.50	2.33	1.86
LT1947EMS#PBF-ND	Adj. Output TFT-LCD Triple Switching Reg.*	10-MSOP	5.13	3.41	2.65
LT1949-1EMS8-ND	1.1MHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.66	2.30
LT1949EMS8#PBF-ND	600kHz, 1A Switch PWM DC/DC Converter*	8-MSOP	4.50	2.99	2.30
LT1950IGN#PBF-ND	Single Switch PWM Controller*	16-SSOP	6.63	4.73	3.90
LT1952EGN-1#PBF-ND	Single Switch PWM Controller*	16-SSOP	6.63	4.40	3.52
LT1956EGN#PBF-ND	1.5A, High Voltage Step-Down Switching Reg.*	16-SSOP	7.38	4.90	3.72
LT1956EGN-5#PBF-ND	1.5A, 5V Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1959CR#PBF-ND	4.5A, Step-Down Switching Regulator*	7-DD	10.00	6.64	5.00
LT1959CS8#PBF-ND	4.5A, Step-Down Switching Regulator*	8-SOIC	9.38	6.23	4.69
LT1961EMS8E#PBF-ND	1.5A, Step-Up Switching Regulator*	8-MSOP	3.38	2.25	1.80
LT1962EMS8#PBF-ND	Adj., 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-1.5#PBF-ND	1.5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-2.5#PBF-ND	2.5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3#PBF-ND	3V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3.3#PBF-ND	3.3V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-5#PBF-ND	5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1963AEQ#PBF-ND	Adj., 1.5A, Fast Transient Response LDO Reg.*	5-DD	5.50	3.66	2.94
LT1963AEQ-1.5#PBF-ND	1.5V, 1.5A, Fast Transient Response LDO Reg.*	5-DD	5.50	3.66	2.94
LT1963AEQ-1.8#PBF-ND	1.8V, 1.5A, Fast Transient Response LDO Reg.*	5-DD	5.50	3.66	2.94
LT1963AEQ-2.5#PBF-ND	2.5V, 1.5A, Fast Transient Response LDO Reg.*	5-DD	5.50	3.66	2.94
LT1963AEQ-3.3#PBF-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	5-DD	5.50	3.66	2.94
LT1963AES8#PBF-ND	Adj., 1.5A, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.5#PBF-ND	1.5V, 1.5A, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.8#PBF-ND	1.8V, 1.5A, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AES8-2.5#PBF-ND	2.5V, 1.5A, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AES8-3.3#PBF-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AEST-1.5#PBF-ND	1.5V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963AEST-1.8#PBF-ND	1.8V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963AEST-2.5#PBF-ND	2.5V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963AEST-3.3#PBF-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963AEST-3.3#TRPBFCT-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	5.46	4.88	4.39
LT1963AEST-3.3#TRPBFTR-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4875.00/2,000		
LT1963AET#PBF-ND	Adj., 1.5A, Fast Transient Response LDO Reg.*	TO-220-5	5.50	3.66	2.94
LT1963AET-2.5#PBF-ND	2.5V, 1.5A, Fast Transient Response LDO Reg.*	TO-220-5	5.50	3.66	2.94
LT1963AET-3.3#PBF-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	TO-220-5	5.50	3.66	2.94
LT1963AMPQ#PBF-ND	Adj., 1.5A, Fast Transient Response LDO Reg.* ***NEW!***	5-DDPAK	14.35	9.64	8.20
LT1963EQ#PBF-ND	Adj., 1.5A, Fast Transient Response LDO Reg.*	5-DDPAK	5.50	3.66	2.94
LT1963EST-1.8#PBF-ND	1.8V, 1.5A Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963EST-2.5#PBF-ND	2.5V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1963EST-3.3#PBF-ND	3.3V, 1.5A, Fast Transient Response LDO Reg.*	SOT-223	4.75	3.16	2.38
LT1964ES5-BYP#TRMPBFCT-ND	200mA, Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	3.25	2.90	2.61
LT1964ES5-BYP#TRMPBFTR-ND	200mA, Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	855.00/500		
LT1964ES5-SD#TRMPBFCT-ND	200mA, Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	3.25	2.90	2.61
LT1964ES5-SD#TRMPBFTR-ND	200mA, Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	855.00/500		
LT1964ES5-5#TRMPBFCT-ND	200mA, 5V Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	3.25	2.90	2.61
LT1964ES5-5#TRMPBFTR-ND	200mA, 5V Low Noise LDO Neg. MPU Regulator*	TSOT-23-5	855.00/500		
LT1965EDD#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-DFN	3.75	2.69	2.21
LT1965EDD-1.5#PBF-ND	1.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-DFN	3.75	2.69	2.28
LT1965EDD-1.8#PBF-ND	1.8V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-DFN	3.75	2.69	2.28
LT1965EDD-2.5#PBF-ND	2.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-DFN	3.75	2.69	2.28
LT1965EDD-3.3#PBF-ND	3.3V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-DFN	3.75	2.69	2.28
LT1965EMS8E#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-MSOP	3.88	2.77	2.28
LT1965EMS8E-1.5#PBF-ND	1.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-MSOP	3.88	2.77	2.36
LT1965EMS8E-1.8#PBF-ND	1.8V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-MSOP	3.88	2.77	2.36
LT1965EMS8E-2.5#PBF-ND	2.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-MSOP	3.88	2.77	2.36

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1965EMS8E-3.3#PBF-ND	3.3V, 1.1A Low Noise LDO Regulator* ***NEW!***	8-MSOP	3.88	2.77	2.36
LT1965EQ-1.5#PBF-ND	1.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	5-DDPAK	4.38	3.14	2.67
LT1965EQ-1.8#PBF-ND	1.8V, 1.1A Low Noise LDO Regulator* ***NEW!***	5-DDPAK	4.38	3.14	2.67
LT1965EQ-2.5#PBF-ND	2.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	5-DDPAK	4.38	3.14	2.67
LT1965EQ-3.3#PBF-ND	3.3V, 1.1A Low Noise LDO Regulator* ***NEW!***	5-DDPAK	4.38	3.14	2.67
LT1965ET-1.5#PBF-ND	1.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	TO-220-5	4.38	3.14	2.67
LT1965ET-1.8#PBF-ND	1.8V, 1.1A Low Noise LDO Regulator* ***NEW!***	TO-220-5	4.38	3.14	2.67
LT1965ET-2.5#PBF-ND	2.5V, 1.1A Low Noise LDO Regulator* ***NEW!***	TO-220-5	4.38	3.14	2.67
LT1965ET-3.3#PBF-ND	3.3V, 1.1A Low Noise LDO Regulator* ***NEW!***	TO-220-5	4.38	3.14	2.67
LT1965IDD#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-DFN	4.33	3.09	2.54
LT1965IMS8E#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-MSOP	4.45	3.19	2.62
LT1976IFE#PBF-ND	1.5A Step-Down Switching Regulator*	16-TSSOP	9.20	6.57	5.41
LT1977EFE#PBF-ND	1.5A Step-Down Switching Regulator*	16-TSSOP	8.20	5.45	4.26
LT3008EDC#TRMPBFCT-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	2.97	2.65	2.39
LT3008EDC#TRMPBFTR-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	730.00/500		
LT3008EDC-1.2#TRMPBFCT-ND	1.2V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-1.5#TRMPBFCT-ND	1.5V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-1.8#TRMPBFCT-ND	1.8V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-1.8#TRMPBFTR-ND	1.8V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	730.00/500		
LT3008EDC-2.5#TRMPBFCT-ND	2.5V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-3.3#TRMPBFCT-ND	3.3V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-3.3#TRMPBFTR-ND	3.3V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	730.00/500		
LT3008EDC-5#TRMPBFCT-ND	5V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	2.97	2.65	2.39
LT3008EDC-5#TRMPBFTR-ND	5V, 20mA LDO Linear Regulator* ***NEW!***	6-DFN	730.00/500		
LT3008ETS8#TRMPBFCT-ND	3µA IQ, 20mA LDO Linear Regulator*	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8#TRMPBFTR-ND	3µA IQ, 20mA LDO Linear Regulator*	TSOT-23-8	730.00/500		
LT3008ETS8-1.2#TRMPBFCT-ND	1.2V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-1.5#TRMPBFCT-ND	1.5V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-1.8#TRMPBFCT-ND	1.8V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-2.5#TRMPBFCT-ND	2.5V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-2.5#TRMPBFTR-ND	2.5V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	730.00/500		
LT3008ETS8-3.3#TRMPBFCT-ND	3.3V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-3.3#TRMPBFTR-ND	3.3V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	730.00/500		
LT3008ETS8-5#TRMPBFCT-ND	5V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	2.97	2.65	2.39
LT3008ETS8-5#TRMPBFTR-ND	5V, 20mA LDO Linear Regulator* ***NEW!***	TSOT-23-8	730.00/500		
LT3009EDC#TRMPBFCT-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	2.24	2.00	1.80
LT3009EDC#TRMPBFTR-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	575.00/500		
LT3009ESC8-1.2#TRMPBFCT-ND	1.2V, 20mA LDO Linear Regulator* ***NEW!***	SC70-8	2.38	2.13	1.92
LT3009ESC8-1.2#TRMPBFTR-ND	1.2V, 20mA LDO Linear Regulator* ***NEW!***	SC70-8	575.00/500		
LT3009ESC8-1.5#TRMPBFCT-ND	1.5V, 20mA LDO Linear Regulator* ***NEW!***	SC70-8	2.38	2.13	1.92
LT3009ESC8-1.5#TRMPBFTR-ND	1.5V, 20mA LDO Linear Regulator* ***NEW!***	SC70-8	575.00/500		
LT3010EMS8E#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	8-MSOP	3.13	2.23	1.84
LT3010EMS8E-5#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	8-MSOP	3.13	2.23	1.84
LT3010HMS8E-5#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	8-MSOP	4.10	2.93	2.41
LT3011EDD#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	10-DFN	3.73	2.50	2.13
LT3011EMSE#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	12-MSOP	3.73	2.50	2.13
LT3011IDD#PBF-ND	50mA, 3V to 80V LDO µPwr Linear Regulator*	10-DFN	4.10	2.76	2.34
LT3012BEFE#PBF-ND	250mA, 4V to 80V LDO µPwr Linear Regulator*	16-TSSOP	4.40	3.14	2.59
LT3013EDE#PBF-ND	250mA, 4V to 80V LDO µPwr Linear Regulator*	12-DFN	4.50	3.21	2.65
LT3013EFE#PBF-ND	250mA, 4V to 80V LDO µPwr Linear Regulator*	16-TSSOP	4.80	3.43	2.82
LT3014EDD#PBF-ND	20mA, 3V to 80V LDO µPwr Linear Regulator*	8-DFN	2.98	2.14	1.77
LT3014HVEDD#PBF-ND	20mA, 3V to 80V LDO µPwr Linear Regulator*	8-DFN	3.40	2.43	2.00
LT3020EDD#PBF-ND	100mA, Adj. Low Volt. VLDO Linear Regulator*	8-DFN	3.00	2.00	1.60
LT3021EDH#PBF-ND	500mA, Adj. Low Volt. VLDO Linear Regulator*	16-DFN	4.50	3.21	2.65
LT3021ES8#PBF-ND	500mA, Adj. Low Volt. VLDO Linear Regulator*	8-SOIC	4.50	3.21	2.65
LT3021IS8-1.8#PBF-ND	500mA, 1.8V, LV VLDO Linear Regulator*	8-SOIC	5.28	3.54	3.01
LT3023EDD-ND	Dual 100mA, LDO Low Noise µPwr Regulator	10-DFN	3.40	2.43	2.00
LT3023EDD#PBF-ND	Dual 100mA, LDO Low Noise µPwr Regulator*	10-DFN	3.40	2.43	2.00
LT3023EMSE#PBF-ND	Dual 100mA, LDO Low Noise µPwr Regulator*	10-MSOP	3.20	2.29	1.88
LT3024EDE#PBF-ND	Dual 100mA/500mA, LDO Low Noise µPwr Reg.*	12-DFN	4.90	3.50	2.88
LT3024EFE#PBF-ND	Dual 100mA/500mA, LDO Low Noise µPwr Reg.*	16-TSSOP	4.90	3.50	2.88
LT3027EDD#PBF-ND	Dual 100mA, LDO Low Noise MPU Regulator*	10-DFN	3.50	2.33	1.86
LT3027EMSE#PBF-ND	Dual 100mA, LDO Low Noise MPU Regulator*	10-MSOP	3.30	2.20	1.76
LT3028EDHC#PBF-ND	Dual 100mA/500mA, LDO Low Noise µPwr Reg.*	16-DFN	5.30	3.52	2.82
LT3028EFE#PBF-ND	Dual 100mA/500mA, LDO Low Noise µPwr Reg.*	16-TSSOP	5.10	3.39	2.72
LT3029EDE#PBF-ND	Dual 0.5A, LDO Linear Regulator* ***NEW!***	16-DFN	6.10	4.10	3.49
LT3029EMSE#PBF-ND	Dual 0.5A, LDO Linear Regulator* ***NEW!***	16-MSOP	6.10	4.10	3.49
LT3029MPMSE#PBF-ND	Dual 0.5A, LDO Linear Regulator* ***NEW!***	16-MSOP	16.45	11.06	9.40
LT3032EDE#PBF-ND	Dual 150mA Low Noise LDO Linear Reg.* ***NEW!***	14-DFN	4.68	3.14	2.67
LT3032IDE#PBF-ND	Dual 150mA Low Noise LDO Linear Reg.* ***NEW!***	14-DFN	5.40	3.64	3.10
LT3050EDDB#TRMPBFCT-ND	100mA, Adjustable LDO Linear Regulator* ***NEW!***	12-DFN	3.84	3.43	3.09
LT3050EDDB#TRMPBFTR-ND	100mA, Adjustable LDO Linear Regulator* ***NEW!***	12-DFN	940.00/500		
LT3050EMSE#PBF-ND	100mA, Adjustable LDO Linear Regulator* ***NEW!***	12-MSOP	3.30	2.22	1.88
LT3060EDC#TRMPBFCT-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-DFN	3.00	2.68	2.41
LT3060EDC#TRMPBFTR-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-DFN	735.00/500		
LT3060ETS8#TRMPBFCT-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	3.00	2.68	2.41
LT3060ETS8#TRMPBFTR-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	735.00/500		
LT3060HTS8#TRMPBFCT-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	4.09	3.65	3.29
LT3060HTS8#TRMPBFTR-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	1015.00/500		
LT3060MPTS8#TRMPBFCT-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	10.44	9.33	8.40
LT3060MPTS8#TRMPBFTR-ND	100mA Low Noise LDO Linear Regulator* ***NEW!***	8-TSOT	2635.00/500		
LT3070EUFD#PBF-ND	5A Low Noise LDO Linear Regulator* ***NEW!***	28-QFN	8.93	6.00	5.10
LT3080EDD#PBF-ND	Single 1.1A LDO Regulator*	8-DFN	3.75	2.69	2.21
LT3080EDD#TRPBFCT-ND	Single 1.1A LDO Regulator*	8-DFN	4.34	3.88	3.49
LT3080EDD#TRPBFTR-ND	Single 1.1A LDO Regulator*	8-DFN	5709.15/2,500		
LT3080EMS8E#PBF-ND	Single 1.1A LDO Regulator*	8-MSOP	3.88	2.77	2.28
LT3080EMS8E#TRPBFCT-ND	Single 1.1A LDO Regulator*	8-MSOP	4.48	4.00	3.60
LT3080EMS8E#TRPBFTR-ND	Single 1.1A LDO Regulator*	8-MSOP	5883.88/2,500		
LT3080EQ#PBF-ND	Single 1.1A LDO Regulator* ***NEW!***	5-DDPAK	4.38	3.14	2.67
LT3080EST#PBF-ND	Single 1.1A LDO Regulator*	SOT-223	3.63	2.59	2.13
LT3080EST#TRPBFCT-ND	Single 1.1A LDO Regulator*	SOT-223	4.20	3.75	3.38
LT3080EST#TRPBFTR-ND	Single 1.1A LDO Regulator*	SOT-223	4406.91/2,000		
LT3080ET#PBF-ND	Single 1.1A LDO Regulator*	TO220-5	4.38	3.14	2.59
LT3082EDD#PBF-ND	200mA, Adj. LDO Linear Regulator* ***NEW!***	8-DFN	2.98	2.00	1.70
LT3082EST#PBF-ND	200mA, Adj. LDO Linear Regulator* ***NEW!***	SOT-223	3.20	2.14	1.82
LT3082ETS8#TRMPBFCT-ND	200mA, Adj. LDO Linear Regulator* ***NEW!***	SOT-23-8	3.44	3.08	2.77
LT3082ETS8#TRMPBFTR-ND	200mA, Adj. LDO Linear Regulator* ***NEW!***	SOT-23-8	850.00/500		
LT3085EDCB#TRMPBFCT-ND	Adj., 500mA LDO Regulator*	6-DFN	4.23	3.78	3.40
LT3085EDCB#TRMPBFTR-ND	Adj., 500mA LDO Regulator*	6-DFN	1050.00/500		
LT3085EMS8E#PBF-ND	Adj., 500mA LDO Regulator*	8-MSOP	3.90	2.62	2.22
LT3430EFE#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	9.90	7.07	5.82
LT3430EFE-1#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	9.90	7.07	5.82
LT3430IFE#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	11.38	8.13	6.69
LT3430IFE-1#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	11.38	8.13	6.69
LT3431EFE#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	9.90	7.07	5.82
LT3433EFE#PBF-ND	High Voltage, Step-Up/Step-Down DC/DC Conv.*	16-TSSOP	6.50	4.64	3.82
LT3434EFE#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	10.50	7.50	6.18
LT3435EFE#PBF-ND	High Voltage, 3A Step-Down Switching Reg.*	16-TSSOP	10.50	7.50	6.18
LT3437HFE#PBF-ND	High Voltage, 500mA Step-Down Switching Reg.*	16-TSSOP	6.00	4.29	3.53
LT3439EFE#PBF-ND	1A Isolated DC/DC Transformer Driver*	16-TSSOP	7.00	5.00	4.12
LT3460ES5#TRMPBFCT-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-5	3.70	3.30	2.97
LT3460ES5#TRMPBFTR-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-5	940.00/500		
LT3461AES6#TRMPBFCT-ND	3MHz Step-Up DC/DC Converter*	TSOT-23-6	3.92	3.50	3.15
LT3461AES6#TRMPBFTR-ND	3MHz Step-Up DC/DC Converter*	TSOT-23-6	1000.00/500		
LT3461ES6#TRMPBFCT-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-6	3.92	3.50	3.15
LT3461ES6#TRMPBFTR-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-6	1000.00/500		
LT3463AEDD#PBF-ND	Dual Micropower DC/DC Converter*	10-DFN	3.90	2.79	2.29
LT3463EDD#PBF-ND	Dual Micropower DC/DC Converter*	10-DFN	3.90	2.79	2.29
LT3464ETS8#TRMCT-ND	Micropower Boost Converter	TSOT-23-8	3.70	3.30	2.97
LT3464ETS8#TRMPBFCT-ND	Micropower Boost Converter*	TSOT-23-8	3.70	3.30	2.97
LT3464ETS8#TRMPBFTR-ND	Micropower Boost Converter*	TSOT-23-8	940.00/500		
LT3466EDD-1#PBF-ND	White LED Driver and Dual Step-Up Boost Conv.*	10-DFN	3.90	2.79	2.29
LT3467AES6#TRMPBFCT-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LT3467AES6#TRMPBFTR-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	1060.00/500		
LT3467ES6#TRMPBFCT-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LT3467ES6#TRMPBFTR-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	1060.00/500		
LT3470ETS8#TRMPBFCT-ND	Micropower Buck Regulator*	TSOT-23-8	5.38	4.80	4.32
LT3470ETS8#TRMPBFTR-ND	Micropower Buck Regulator*	TSOT-23-8	1250.00/500		
LT3470ITS8#TRMPBFCT-ND	Micropower Buck Regulator*	TSOT-23-8	6.41	5.73	5.16
LT3470ITS8#TRMPBFTR-ND	Micropower Buck Regulator*	TSOT-23-8	1495.00/500		
LT3471EDD#PBF-ND	Dual 1.3A, Switching Regulator Boost/Inverter*	10-DFN	5.60	3.72	2.98
LT3472EDD#PBF-ND	Dual Boost/Inverting DC/DC Conv. for CCD*	10-DFN	3.90	2.59	2.15
LT3473AEDE#PBF-ND	Micropower 1A Boost DC/DC Converter*	12-DFN	4.10	2.93	2.41
LT3473EDD#PBF-ND	Micropower 1A Boost DC/DC Converter*	8-DFN	3.90	2.79	2.29
LT3479EDE#PBF-ND	3A Full Featured Step-Up DC/DC Converter*	14-DFN	6.00	3.99	3.18
LT3479EFE#PBF-ND	3A Full Featured Step-Up DC/DC Converter*	16-TSSOP	6.00	3.99	3.18
LT3480EDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-DFN	6.90	4.93	4.06
LT3480EMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	7.10	5.07	4.18
LT3481EDD#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-DFN	6.50	4.64	3.82
LT3481EMSE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-MSOP	6.50	4.64	3.82
LT3482EUD#PBF-ND	90V Boost DC/DC Conv. with APD Monitor*	16-QFN	6.90	4.93	4.06
LT3483EDC#TRMPBFCT-ND	Inverting Micropower DC/DC Converter*	8-DFN	4.82	4.30	3.87
LT3483EDC#TRMPBFTR-ND	Inverting Micropower DC/DC Converter*	8-DFN	1115.00/500		
LT3487EDD#PBF-ND	Boost/Inverting Switching Reg. for CCD*	10-DFN	4.60	3.29	2.71
LT3489EMS8E#PBF-ND	2MHz Boost DC/DC Conv., 2.5A Switch*	8-MSOP	3.90	2.79	2.29
LT3493EDCB#TRMPBFCT-ND	1.2A, 750kHz Step-Down Switching Regulator*	6-DFN	6.19	5.53	4.98
LT3493EDCB#TRMPBFTR-ND	1.2A, 750kHz Step-Down Switching Regulator*	6-DFN	1595.00/500		
LT3494EDDB#TRMPBFCT-ND	MPU Low Noise Boost Converter*	8-DFN	3.36	3.00	2.70
LT3494EDDB#TRMPBFTR-ND	MPU Low Noise Boost Converter*	8-DFN	855.00/500		
LT3495BEDDB#TRMPBFCT-ND	650mA MPU Low Noise Boost Converter*	10-DFN	4.28	3.83	3.45
LT3495BEDDB#TRMPBFTR-ND	650mA MPU Low Noise Boost Converter*	10-DFN	1030.00/500		
LT3495BEDDB-1#TRMPBFCT-ND	350mA MPU Low Noise Boost Converter*	10-DFN	4.28	3.83	3.45
LT3495BEDDB-1#TRMPBFTR-ND	350mA MPU Low Noise Boost Converter*	10-DFN	1030.00/500		
LT3495EDDB#TRMPBFCT-ND	650mA MPU Low Noise Boost Converter*	10-DFN	4.28	3.83	3.45
LT3495EDDB#TRMPBFTR-ND	650mA MPU Low Noise Boost Converter*	10-DFN	1030.00/500		
LT3495EDDB-1#TRMPBFCT-ND	350mA MPU Low Noise Boost Converter*	10-DFN	4.28	3.83	3.45
LT3495EDDB-1#TRMPBFTR-ND	350mA MPU Low Noise Boost Converter*	10-DFN	1030.00/500		
LT3500EDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	6.50	4.64	3.82
LT3500EMSE#PBF-ND	2A Step-Down Regulator/Controller*	16-MSOP	7.13	4.79	4.07
LT3500HDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	8.30	5.93	4.88
LT3500IDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	7.80	5.57	4.59
LT3501EFE#PBF-ND	Dual Mono 3A Step-Down Switching Regulator*	20-TSSOP	7.00	5.41	4.27
LT3502AIDC#TRMPBFCT-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	5.35	4.78	4.30
LT3502AIDC#TRMPBFTR-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	1375.00/500		
LT3502IDC#TRMPBFCT-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	5.35	4.78	4.30
LT3502IDC#TRMPBFTR-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	1375.00/500		
LT3503EDCB#TRMPBFCT-ND	2.2MHz, 1A Step-Down Switching Regulator*	6-DFN	5.15	4.60	4.14
LT3503EDCB#TRMPBFTR-ND	2.2MHz, 1A Step-Down Switching Regulator*	6-DFN	1350.00/500		
LT3505EDD#PBF-ND	1.2A Step-Down Switching Regulator*	8-DFN	4.80	3.43	2.82
LT3505EMS8E#PBF-ND	1.2A Step-Down Switching Regulator*	8-MSOP	5.20	3.71	3.06
LT3506AIDHD#PBF-ND	Dual Mono 1.6A Step-Down Switching Regulator*	16-DFN	7.08	5.06	4.17
LT3506IDHD#PBF-ND	Dual Mono 1.6A Step-Down Switching Regulator*	16-DFN	7.08	5.06	4.17
LT3507EUHF#PBF-ND	Triple Mono Step-Down Regulator with LDO*	38-QFN	9.03	6.07	5.16
LT3507HUHF#PBF-ND	Triple Mono Step-Down Regulator with LDO*	38-QFN	11.38	7.64	6.50
LT3507IUHF#PBF-ND	Triple Mono Step-Down Regulator with LDO*	38-QFN	10.85	7.29	6.19
LT3508EFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	16-TSSOP	7.00	5.00	4.12
LT3508EUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	6.70	4.79	3.94
LT3508HFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	16-TSSOP	8.90	6.36	5.24
LT3508HUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	8.55	6.10	5.02
LT3508IFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	16-TSSOP	8.40	6.00	4.94
LT3508IUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	8.05	5.74	4.73
LT3509EDE#PBF-ND	Dual 700mA Step Down Regulator*	14-DFN	6.28	4.22	3.58
LT3509EMSE#PBF-ND	Dual 700mA Step Down Regulator*	16-MSOP	6.48	4.36	3.70
LT3510EFE#PBF-ND	Dual Mono 2A Step-Down Switching Regulator*	20-TSSOP	6.50	5.01	3.96
LT3513EUHF#PBF-ND	2MHz High Current 5-Output Regulator*	38-QFN	9.03	6.07	5.16
LT3513IUHF#PBF-ND	2MHz High Current 5-Output Regulator*	38-QFN	10.63	7.14	6.07
LT3570EFE#PBF-ND	1.5A Buck/Boost Converter and LDO Controller*	20-TSSOP	6.48	4.36	3.70
LT3571EUD#PBF-ND	75V DC/DC Converter for APD Bias*	16-QFN	5.20	3.50	2.98
LT3572EUF#PBF-ND	Dual Full-Bridge Piezo Drvr, 900mA Boost Conv.*	20-QFN	5.50	3.93	3.24
LT3573EMSE#PBF-ND	Isolated Flyback Converter*	16-MSOP	5.88	3.94	3.35
LT3573IMSE#PBF-ND	Isolated Flyback Converter*	16-MSOP	6.63	4.46	3.79
LT3574EMS#PBF-ND	Isolated Flyback Converter* ***NEW!***	16-MSOP	5.88	3.94	3.35
LT3574IMS#PBF-ND	Isolated Flyback Converter* ***NEW!***	16-MSOP	6.63	4.46	3.79
LT3580EDD#PBF-ND	Boost/Inverting DC/DC Converter*	8-DFN	4.00	2.86	2.35
LT3580EMS8E#PBF-ND	Boost/Inverting DC/DC Converter*	8-MSOP	4.20	3.00	2.47
LT3580IDD#PBF-ND	Boost/Inverting DC/DC Converter*	8-DFN	4.80	3.43	2.82
LT3580IMS8E#PBF-ND	Boost/Inverting DC/DC Converter*	8-MSOP	5.05	3.60	2.97
LT3582EUD#PBF-ND	Adj. Boost/Inverting DC/DC Converter* ***NEW!***	16-QFN	4.78	3.22	2.73
LT3582EUD-5#PBF-ND	+/-5V Boost/Inverting DC/DC Converter* ***NEW!***	16-QFN	4.78	3.22	2.73
LT3582EUD-12#PBF-ND	+/-12V Boost/Inverting DC/DC Converter* ***NEW!***	16-QFN	4.78	3.22	2.73
LT3587EUD#PBF-ND	High Voltage Mono Inverter/Dual Boost*	20-QFN	6.28	4.22	3.58
LT3653EDCB#TRMPBFCT-ND	1.2A HV Input Reg. with Output Current Limit*	8-DFN	6.08	5.43	4.89
LT3653IDCB#TRMPBFCT-ND	1.2A HV Input Reg. with Output Current Limit*	8-DFN	6.94	6.20	5.58
LT3663EDCB#TRMPBFCT-ND	1.2A, Adj. Step-Down Switching Reg.* ***NEW!***	8-DFN	6.08	5.43	4.89
LT3663EDCB#TRMPBFTR-ND	1.2A, Adj. Step-Down Switching Reg.* ***NEW!***	8-DFN	1520.00/500		
LT3663EMS8E#PBF-ND	1.2A, Adj. Step-Down Switching Reg.* ***NEW!***	8-MSOP	5.53	3.71	3.16
LT3663EMS8E-3.3#PBF-ND	1.2A, 3.3V Step-Down Switching Reg.* ***NEW!***	8-MSOP	5.53	3.71	3.16
LT3663EMS8E-5#PBF-ND	1.2A, 5V Step-Down Switching Reg.* ***NEW!***	8-MSOP	5.53	3.71	3.16

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT3663HMS8E#PBF-ND	1.2A, Adj. Step-Down Switching Reg.* ***NEW!***	8-MSOP	7.03	4.73	4.02
LT3663HMS8E-3.3#PBF-ND	1.2A, 3.3V Step-Down Switching Reg.* ***NEW!***	8-MSOP	7.03	4.73	4.02
LT3663IMS8E#PBF-ND	1.2A, Adj. Step-Down Switching Reg.* ***NEW!***	8-MSOP	6.50	4.37	3.72
LT3663IMS8E-3.3#PBF-ND	1.2A, 3.3V Step-Down Switching Reg.* ***NEW!***	8-MSOP	6.50	4.37	3.72
LT3663IMS8E-5#PBF-ND	1.2A, 5V Step-Down Switching Reg.* ***NEW!***	8-MSOP	6.50	4.37	3.72
LT3680EDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	8.30	5.93	4.88
LT3680EMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	8.50	6.07	5.00
LT3680IDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	9.95	7.11	5.86
LT3680IMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	10.20	7.29	6.00
LT3681EDE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	14-DFN	7.30	5.21	4.29
LT3682EDD#PBF-ND	1A, Micropower Step-Down Switching Regulator*	12-DFN	6.28	4.22	3.58
LT3684EMSE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-MSOP	6.15	4.36	3.59
LT3684IDD#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-DFN	7.08	5.06	4.17
LT3684IMSE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-MSOP	7.33	5.20	4.28
LT3685EDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-DFN	6.10	4.36	3.59
LT3685EMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	6.30	4.50	3.71
LT3685IDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-DFN	7.33	5.23	4.31
LT3685IMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	7.55	5.40	4.45
LT3686EDD#PBF-ND	Adj., 1.2A Step-Down Regulator* ***NEW!***	10-DFN	5.33	3.57	3.04
LT3686IDD#PBF-ND	Adj., 1.2A Step-Down Regulator* ***NEW!***	10-DFN	5.90	3.97	3.38
LT3689EUD#PBF-ND	Adj., 700mA Step-Down Regulator* ***NEW!***	16-QFN	6.80	4.57	3.89
LT3689HMSE#PBF-ND	Adj., 700mA Step-Down Regulator* ***NEW!***	16-MSOP	8.20	5.51	4.69
LT3693EDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	7.70	5.50	4.53
LT3693EMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	7.90	5.64	4.65
LT3693IDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	9.25	6.60	5.44
LT3693IMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	9.48	6.77	5.58
LT3695EMSE#PBF-ND	1A, Adj. Micropower Step-Down Reg.* ***NEW!***	16-MSOP	6.90	4.64	3.95
LT3695EMSE-3.3#PBF-ND	1A, 3.3V Micropower Step-Down Reg.* ***NEW!***	16-MSOP	6.90	4.64	3.95
LT3695EMSE-5#PBF-ND	1A, 5V Micropower Step-Down Reg.* ***NEW!***	16-MSOP	6.90	4.64	3.95
LT3695HMSE#PBF-ND	1A, Adj. Micropower Step-Down Reg.* ***NEW!***	16-MSOP	8.20	5.51	4.69
LT3710EFE-ND	High Efficiency Step-Down Switching Regulator	16-TSSOP	7.88	5.63	4.63
LT3710EFE#PBF-ND	High Efficiency Step-Down Switching Regulator*	16-TSSOP	7.88	5.63	4.63
LT3724EFE#PBF-ND	High Voltage Switching Reg./Controller*	16-TSSOP	6.38	4.24	3.30
LT3740EDHC#PBF-ND	Sync. Step-Down Switching Controller*	16-DFN	3.88	2.96	2.44
LT3741EFE#PBF-ND	20A, Sync. Step-Down DC/DC Controller* ***NEW!***	20-TSSOP	8.73	5.86	4.98
LT3741EUF#PBF-ND	20A, Sync. Step-Down DC/DC Controller* ***NEW!***	20-QFN	8.40	5.64	4.80
LT3742EUF#PBF-ND	Dual Step-Down Switching Controller*	24-DFN	4.88	3.29	2.79
LT3757EDD#PBF-ND	Adjustable DC/DC Controller* ***NEW!***	10-DFN	4.38	2.94	2.50
LT3757EMSE#PBF-ND	Adjustable DC/DC Controller* ***NEW!***	10-MSOP	4.38	2.94	2.50
LT3781EG#PBF-ND	Dual Transistor Sync. Forward Controller*	20-SSOP	10.00	7.14	5.88
LT3781IG-ND	Dual Transistor Synchronous Forward Controller	20-SSOP	11.00	7.86	6.47
LT3782AEFE#PBF-ND	2-Phase Step Up DC/DC Controller*	28-TSSOP	9.63	6.47	5.50
LT3782AEUFD#PBF-ND	2-Phase Step Up DC/DC Controller*	28-QFN	9.38	6.30	5.36
LT3782EFE#PBF-ND	2-Phase Step-Up DC/DC Controller*	28-TSSOP	9.38	6.23	5.01
LT3782EUFD#PBF-ND	2-Phase Step-Up DC/DC Controller*	28-QFN	9.38	6.23	5.01
LT3825EFE#PBF-ND	Isolated Sync. Flyback Controller*	16-TSSOP	6.35	4.43	3.65
LT3837EFE#PBF-ND	Isolated Sync. Flyback Controller*	16-TSSOP	6.35	4.43	3.65
LT3800IFE#PBF-ND	High Voltage Sync. Step-Down Controller*	16-TSSOP	8.08	5.64	4.65
LT3844EFE#PBF-ND	High Voltage Switching Reg./Controller*	16-TSSOP	6.38	4.43	3.65
LT3845EFE#PBF-ND	High Voltage Sync. Step-Down Controller*	16-TSSOP	7.13	5.09	4.19
LT3845EN#PBF-ND	High Voltage Sync. Step-Down Controller* ***NEW!***	16-PDIP	7.13	5.09	4.32
LT3845MPFE#PBF-ND	High Voltage Sync. Step-Down Controller* ***NEW!***	16-TSSOP	22.63	15.22	12.93
LT3970EMS#PBF-ND	40V, 350mA, Adj. Step-Down Regulator* ***NEW!***	10-MSOP	5.10	3.43	2.91
LT3970EMS-3.3#PBF-ND	40V, 350mA, Adj. Step-Down Regulator* ***NEW!***	10-MSOP	5.10	3.43	2.91
LT3971EDD#PBF-ND	38V, 1.2A, Adj. Step-Down Regulator* ***NEW!***	10-DFN	5.85	3.93	3.34
LT3971EMSE#PBF-ND	38V, 1.2A, Adj. Step-Down Regulator* ***NEW!***	10-MSOP	5.85	3.93	3.34
LT3972EDD#PBF-ND	33V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	9.03	6.07	5.16
LT3972EMSE#PBF-ND	33V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	9.25	6.36	5.40
LT3980EDE#PBF-ND	58V, 2A, Adj. Step-Down Switching Reg.* ***NEW!***	14-DFN	7.55	5.07	4.31
LT3980EMSE#PBF-ND	58V, 2A, Adj. Step-Down Switching Reg.* ***NEW!***	16-MSOP	7.55	5.07	4.31
LT3980HMSE#PBF-ND	58V, 2A, Adj. Step-Down Switching Reg.* ***NEW!***	16-MSOP	9.40	6.33	5.38
LT3991EDD#PBF-ND	55V, 1.2A Adj. Step-Down Switching Reg.* ***NEW!***	10-DFN	6.28	4.22	3.58
LT3991EMSE#PBF-ND	55V, 1.2A Adj. Step-Down Switching Reg.* ***NEW!***	10-MSOP	6.28	4.22	3.58
LT8410EDC#TRMPBFCT-ND	25mA Ultralow Power Boost Converter*	8-DFN	4.28	3.83	3.45
LT8410EDC#TRMPBFTR-ND	25mA Ultralow Power Boost Converter*	8-DFN	1065.00/500		
LT8410EDC-1#TRMPBFCT-ND	8mA Ultralow Power Boost Converter*	8-DFN	4.28	3.83	3.45
LT8410EDC-1#TRMPBFTR-ND	8mA Ultralow Power Boost Converter*	8-DFN	1065.00/500		
LT8415EDDB#TRMPBFCT-ND	25mA Ultralow Power Boost Converter* ***NEW!***	12-DFN	5.82	5.20	4.68
LTC1142CG-ND	Dual Step-Down Switching Regulator	28-SSOP	11.25	7.50	6.00
LTC1143LCS-ND	Dual Step-Down Switching Regulator	16-SOIC	8.25	5.48	4.60
LTC1143LCS#PBF-ND	Dual Step-Down Switching Regulator*	16-SOIC	8.25	5.48	4.60
LTC1147CS8-3.3-ND	3.3V, High Efficiency Step-Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147CS8-3.3#PBF-ND	3.3V, High Efficiency Step-Down Regulator*	8-SOIC	5.38	3.57	2.80
LTC1147CS8-5#PBF-ND	5V, High Efficiency Step-Down Regulator*	8-SOIC	5.38	3.57	2.80
LTC1147LCS8-ND	High Efficiency Step-Down Regulator	8-SOIC	6.00	3.99	3.15
LTC1147LCS8#PBF-ND	High Efficiency Step-Down Regulator*	8-SOIC	6.00	3.99	3.15
LTC1148CN-ND	High Efficiency Sync. Step-Down Regulator	14-Dip	8.60	5.72	4.50
LTC1148CN#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-Dip	8.60	5.72	4.50
LTC1148CS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-SOIC	8.80	5.85	4.60
LTC1148CS-3.3-ND	3.3V, High Efficiency Sync. Step-Down Regulator	14-SOIC	8.80	5.85	4.60
LTC1148CS-5#PBF-ND	5V, High Efficiency Sync. Step-Down Regulator*	14-SOIC	8.80	5.85	4.60
LTC1148HVCS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-SOIC	9.20	6.11	4.80
LTC1148LCS-3.3#PBF-ND	3.3V, High Efficiency Sync. Step-Down Reg.*	14-SOIC	9.50	6.31	4.90
LTC1149CN#PBF-ND	High Efficiency Sync. Step-Down Regulator*	16-Dip	9.63	6.40	5.50
LTC1149CS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	16-SOIC	10.00	6.64	5.00
LTC1159CS#PBF-ND	High Efficiency Sync. Step-Down Switching Reg*	16-SOIC	9.00	6.00	4.90
LTC1174CN8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-Dip	7.00	4.65	3.60
LTC1174CS8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-SOIC	7.40	4.92	3.80
LTC1174CS8-3.3#PBF-ND	3.3V, Step-Down and Inverting DC/DC Converter*	8-SOIC	7.40	4.92	3.80
LTC1174CS8-5#PBF-ND	5V, Step-Down and Inverting DC/DC Converter*	8-SOIC	7.40	4.92	3.80
LTC1174HVCS8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-SOIC	8.30	5.52	4.25
LTC1174HVCS8-3.3#PBF-ND	3.3V, Step-Down and Inverting DC/DC Converter*	8-SOIC	8.30	5.52	4.25
LTC1174HVCS8-5#PBF-ND	5V, Step-Down and Inverting DC/DC Converter*	8-SOIC	8.30	5.52	4.25
LTC1263CS8#PBF-ND	12V, 60mA Flash Memory DC/DC Converter*	8-SOIC	7.00	4.65	3.50
LTC1265CS#PBF-ND	Adj., 1.2A High Eff. Step-Down DC/DC Converter*	14-SOIC	6.88	4.60	3.95
LTC1430ACGN#PBF-ND	Step-Down Switching Regulator Controller*	16-SSOP	7.75	5.15	3.98
LTC1430ACS-ND	Step-Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.59
LTC1430ACS8-ND	Step-Down Switching Regulator Controller	8-SOIC	6.25	4.15	3.13
LTC1430IS-ND	Step-Down Switching Regulator Controller	16-SOIC	8.88	6.79	5.59
LTC1430IS#PBF-ND	Step-Down Switching Regulator Controller*	16-SOIC	8.88	6.79	5.59
LTC1435AIG#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SSOP	11.25	7.47	6.45
LTC1435AIS#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SOIC	10.50	6.98	6.00
LTC1435CG-ND	Low Noise Sync. Step-Down Switching Regulator	16-SSOP	9.00	5.98	5.15
LTC1435CG#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SSOP	9.00	5.98	5.15
LTC1436ACGN-PLL-ND	Low Noise Sync. Step-Down Switching Regulator	24-SSOP	10.00	6.64	5.70
LTC1436ACGN-PLL#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	24-SSOP	10.00	6.64	5.70

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1436AIGN-PLL#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	24-SSOP	12.50	8.30	6.65
LTC1439CG-ND	Dual, Sync. Step-Down Switching Regulator	36-SSOP	15.38	10.21	8.75
LTC1474CMS8#PBF-ND	Adj. High Eff., Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3#PBF-ND	3.3V, High Eff., Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5#PBF-ND	5V, High Eff., Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CS8#PBF-ND	Adj. High Efficiency, Step-Down DC/DC Conv.*	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3#PBF-ND	3.3V, High Eff., Step-Down DC/DC Converter*	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5#PBF-ND	5V, High Efficiency, Step-Down DC/DC Conv.*	8-SOIC	6.88	4.57	3.65
LTC1474IS8-ND	Adj. High Efficiency, Step-Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3#PBF-ND	3.3V, High Eff., Step-Down DC/DC Converter*	8-SOIC	8.25	5.48	4.40
LTC1475CS8-5-ND	5V, High Efficiency, Step-Down DC/DC Converter	8-SOIC	7.13	4.74	3.80
LTC1475CS8-5#PBF-ND	5V, High Efficiency, Step-Down DC/DC Conv.*	8-SOIC	7.13	4.74	3.80
LTC1504CS8#PBF-ND	Adj. Step-Down Sync. Switching Regulator*	8-SOIC	5.13	3.41	2.57
LTC1530CS8#PBF-ND	Adj. Synchronous Switching Regulator Cont.*	8-SOIC	6.25	4.15	3.15
LTC1574CS#PBF-ND	Adjustable CMOS Step-Down, DC/DC Converter*	16-SOIC	8.50	5.65	4.85
LTC1622CMS8-ND	Low Voltage, Step-Down DC/DC Controller	8-MSOP	4.38	2.91	2.19
LTC1622CMS8#PBF-ND	Low Voltage, Step-Down DC/DC Controller*	8-MSOP	4.38	2.91	2.19
LTC1622CS8#PBF-ND	Low Voltage, Step-Down DC/DC Controller*	8-SOIC	3.88	2.58	1.94
LTC1624CS8#PBF-ND	High Eff. N-Channel Switching Reg. Controller*	8-SOIC	7.13	4.74	3.75
LTC1624IS8#PBF-ND	High Eff. N-Channel Switching Reg. Controller*	8-SOIC	8.88	5.90	4.80
LTC1625CS#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SOIC	9.13	6.06	4.85
LTC1625IGN#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SSOP	11.75	7.81	6.28
LTC1625IS#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SOIC	11.00	7.31	5.85
LTC1627CS8#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	8-SOIC	4.38	2.91	2.19
LTC1627IS8#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	8-SOIC	6.50	4.32	3.25
LTC1628CG#PBF-ND	Mono Step-Down Switching Regulator*	28-SSOP	9.13	6.06	4.75
LTC1628CG-SYNC#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	28-SSOP	9.50	6.31	4.90
LTC1628CUH#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	32-QFN	9.38	6.70	5.51
LTC1629CG#PBF-ND	Poly-Phase Sync. Step-Down Switching Reg.*	28-SSOP	12.13	8.06	6.40
LTC1629IG-ND	Poly-Phase Sync. Step-Down Switching Reg.	28-SSOP	14.25	9.47	7.30
LTC1629IG#PBF-ND	Poly-Phase Sync. Step-Down Switching Reg.*	28-SSOP	14.25	9.47	7.30
LTC1649CS-ND	3.3V, Step-Down Switching Regulator Controller	16-SOIC	8.38	5.57	4.20
LTC1649CS#PBF-ND	3.3V, Step-Down Switching Reg. Controller*	16-SOIC	8.38	5.57	4.20
LTC1698EGN-ND	Secondary Synchronous Rectifier Controller	16-SSOP	11.25	7.47	5.63
LTC1698ES-ND	Secondary Synchronous Rectifier Controller	16-SOIC	11.38	7.56	5.69
LTC1700EMS#PBF-ND	No RSENSE Sync. Step-Up DC/DC Cont.*	10-MSOP	5.50	3.66	2.75
LTC1701BES5#TRMCT-ND	1MHz Step-Down DC/DC Converter	TSOT-23-5	4.42	3.95	3.56
LTC1701BES5#TRMPBFCT-ND	1MHz Step-Down DC/DC Converter*	TSOT-23-5	4.42	3.95	3.56
LTC1702CGN#PBF-ND	Dual, 550kHz, Sync. Switch Reg. Controller*	24-SSOP	9.88	6.56	4.95
LTC1704EGN-ND	Dual, 550kHz, Sync. Switch Linear Regulator	16-SSOP	8.25	5.89	4.85
LTC1704EGN#PBF-ND	Dual, 550kHz, Sync. Switch Linear Regulator*	16-SSOP	8.25	5.89	4.85
LTC1735CF-ND	High Eff. Sync. Step-Down Switching Regulator	20-TSSOP	7.00	4.65	3.50
LTC1735CF#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	20-TSSOP	7.00	4.65	3.50
LTC1735CGN#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	6.88	4.57	3.44
LTC1735CS#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SOIC	6.63	4.40	3.32
LTC1735IGN#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	9.00	5.98	4.50
LTC1735IS#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SOIC	8.63	5.73	4.35
LTC1771EMS8#PBF-ND	High Eff. Step-Down Switching DC/DC Controller*	8-MSOP	5.63	3.74	2.82
LTC1771ES8#PBF-ND	High Eff. Step-Down Switching DC/DC Controller*	8-SOIC	5.38	3.57	2.70
LTC1772BES6#TRMPBFCT-ND	Current Mode Step-Down DC/DC Controller*	SOT-23-6	4.56	4.08	3.67
LTC1772BES6#TRMPBFTR-ND	Current Mode Step-Down DC/DC Controller*	SOT-23-6	1018.75/500		
LTC1772ES6#TRMCT-ND	Current Mode Step-Down DC/DC Controller	SOT-23-6	4.56	4.08	3.67
LTC1772ES6#TRMPBFCT-ND	Current Mode Step-Down DC/DC Controller*	SOT-23-6	4.56	4.08	3.67
LTC1772ES6#TRMPBFTR-ND	Current Mode Step-Down DC/DC Controller*	SOT-23-6	1018.75/500		
LTC1773EMS#PBF-ND	Sync. Step-Down DC/DC Controller*	10-MSOP	5.38	3.57	2.69
LTC1778EGN#PBF-ND	Sync. Step-Down Switching Reg. Controller*	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1#PBF-ND	Sync. Step-Down Switching Reg. Controller*	16-SSOP	5.75	3.82	2.88
LTC1779ES6#TRMPBFCT-ND	250mA Step-Down DC/DC Converter*	SOT-23-6	4.45	3.98	3.58
LTC1779ES6#TRMPBFTR-ND	250mA Step-Down DC/DC Converter*	SOT-23-6	1000.00/500		
LTC1844ES5-1.5#TRMCT-ND	150mA, Low Noise, VLDO™ Linear Regulator	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.5#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.5#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1844ES5-1.8#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.8#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1844ES5-2.5#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-2.5#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1844ES5-3.3#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-3.3#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1844ES5-BYP#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-BYP#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1844ES5-SD#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	2.88	2.58	2.32
LTC1844ES5-SD#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	TSOT-23-5	725.00/500		
LTC1871EMS#PBF-ND	Current Mode Boost, Flyback, SEPIC Controller*	10-MSOP	5.38	3.57	2.70
LTC1872BES6#TRMCT-ND	Current Mode Step-Up DC/DC Controller	SOT-23-6	4.42	3.95	3.56
LTC1872BES6#TRMPBFCT-ND	Current Mode Step-Up DC/DC Controller*	SOT-23-6	4.42	3.95	3.56
LTC1872BES6#TRMPBFTR-ND	Current Mode Step-Up DC/DC Controller*	SOT-23-6	1000.00/500		
LTC1872ES6#TRMPBFCT-ND	Current Mode Step-Up DC/DC Controller*	SOT-23-6	4.42	3.95	3.56
LTC1872ES6#TRMPBFTR-ND	Current Mode Step-Up DC/DC Controller*	SOT-23-6	1000.00/500		
LTC1872ES6TR-ND	Current Mode Step-Up DC/DC Controller	SOT-23-6	5000.00/2,500		
LTC1875EGN#PBF-ND	1.5A Monolithic Sync. Step-Down Regulator*	16-SSOP	7.00	4.65	3.57
LTC1876EG#PBF-ND	Dual Sync. Step-Dn Switch Reg./Step-Up Ctrlr.*	36-SSOP	12.63	8.39	6.32
LTC1877EMS8#PBF-ND	High Eff. Mono. Sync. Step-Down Regulator*	8-MSOP	6.13	4.07	3.07
LTC1878EMS8#PBF-ND	High Eff. Mono. Sync. Step-Down Regulator*	8-MSOP	5.50	3.66	2.80
LTC1879EGN#PBF-ND	1.2A Synchronous Step-Down Regulator*	16-SSOP	7.20	4.79	3.67
LTC1922EG-1#PBF-ND	Sync. Phase Shift PWM Controller*	20-SSOP	11.25	7.47	5.63
LTC3026EDD#PBF-ND	1.5A VLDO™ Linear Regulator*	10-DFN	4.38	3.14	2.59
LTC3026EMSE#PBF-ND	1.5A VLDO™ Linear Regulator*	10-MSOP	4.38	3.14	2.59
LTC3100EUD#PBF-ND	1.5MHz Sync Dual Channel DC/DC Converter*	16-QFN	6.60	4.43	3.76
LTC3101EUF#PBF-ND	Multi-Output DC/DC Converter/Controller*	24-QFN	8.38	5.64	4.80
LTC3108EDE#PBF-ND	4.5mA Step-Up DC/DC Converter* ***NEW!***	12-DFN	6.25	4.22	3.58
LTC3108EGN#PBF-ND	4.5mA Step-Up DC/DC Converter* ***NEW!***	16-SSOP	6.25	4.22	3.58
LTC3108IDE#PBF-ND	4.5mA Step-Up DC/DC Converter* ***NEW!***	12-DFN	7.38	4.93	4.19
LTC3108IGN#PBF-ND	4.5mA Step-Up DC/DC Converter* ***NEW!***	16-SSOP	7.38	4.93	4.19
LTC3125EDCB#TRMPBFCT-ND	1.2A Sync. Step-Up DC/DC Converter*	8-DFN	5.46	4.88	4.39
LTC3125EDCB#TRMPBFTR-ND	1.2A Sync. Step-Up DC/DC Converter*	8-DFN	1365.00/500		
LTC3127EDD#PBF-ND	1A Buck-Boost DC/DC Converter* ***NEW!***	10-DFN	6.28	4.22	3.58
LTC3127EMSE#PBF-ND	1A Buck-Boost DC/DC Converter* ***NEW!***	12-MSOP	6.38	4.29	3.64
LTC3400BES6#TRMPBFCT-ND	600mA, 1.2MHz µPwr Sync. Boost Converter*	SOT-23-6	4.56	4.08	3.67
LTC3400BES6#TRMPBFTR-ND	600mA, 1.2MHz µPwr Sync. Boost Converter*	SOT-23-6	1170.00/500		
LTC3400ES6#TRMPBFCT-ND	600mA, 1.2MHz µPwr Sync. Boost Converter*	SOT-23-6	4.56	4.08	3.67
LTC3400ES6#TRMPBFTR-ND	600mA, 1.2MHz µPwr Sync. Boost Converter*	SOT-23-6	1020.00/500		
LTC3401EMS#PBF-ND	1A, 3MHz, Sync. Boost DC/DC Converter*	10-MSOP	5.50	3.66	2.75
LTC3402EMS#PBF-ND	2A, 3MHz, Sync. Boost DC/DC Converter*	10-MSOP	7.13	4.74	3.57
LTC3404EMS8#PBF-ND	1.4MHz, Monolithic Sync. Step-Down Regulator*	8-MSOP	5.75	3.82	2.88
LTC3405AES6#TRMPBFCT-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6#TRMPBFTR-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	980.00/500		

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC3405AES6-1.5#TRMCT-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.5#TRMPBFCT-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.5#TRMPBFTR-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	980.00/500		
LTC3405AES6-1.8#TRMCT-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.8#TRMPBFCT-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.8#TRMPBFTR-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	980.00/500		
LTC3405ES6#TRMCT-ND	1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	3.84	3.43	3.09
LTC3405ES6#TRMPBFCT-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	3.84	3.43	3.09
LTC3405ES6#TRMPBFTR-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	856.25/500		
LTC3406ABES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.20	3.75	3.38
LTC3406ABES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1075.00/500		
LTC3406AES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.20	3.75	3.38
LTC3406AES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1075.00/500		
LTC3406BES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1175.00/500		
LTC3406BES5-1.5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5-1.5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1175.00/500		
LTC3406BES5-1.8#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5-1.8#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1175.00/500		
LTC3406ES5#TRMPBFCT-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5#TRMPBFTR-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1175.00/500		
LTC3406ES5-1.5#TRMPBFCT-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.5#TRMPBFTR-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1175.00/500		
LTC3406ES5-1.8#TRMPBFCT-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.8#TRMPBFTR-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1175.00/500		
LTC3407AEDD#PBF-ND	Dual 600mA, Sync. Step-Down DC/DC Regulator*	10-DFN	5.20	3.71	3.06
LTC3407AEMSE#PBF-ND	Dual 600mA, Sync. Step-Down DC/DC Regulator*	10-MSOP	5.20	3.71	3.06
LTC3407IDD-2#PBF-ND	Dual 800mA, Sync. Step-Down DC/DC Regulator*	10-DFN	6.78	4.84	3.99
LTC3407IMSE-2#PBF-ND	Dual 800mA, Sync. Step-Down DC/DC Regulator*	10-MSOP	6.78	4.84	3.99
LTC3409EDD#PBF-ND	Mono 600mA, Sync. Step-Down Regulator*	8-DFN	4.30	3.07	2.53
LTC3411EDD#PBF-ND	1.25A Sync. Step-Down DC/DC Converter*	10-DFN	6.40	4.25	3.26
LTC3411EMS#PBF-ND	1.25A Sync. Step-Down DC/DC Converter*	10-MSOP	6.40	4.25	3.26
LTC3412AEUF#PBF-ND	3A, Mono. Sync. Step-Down Regulator*	16-QFN	6.88	4.93	4.06
LTC3412EFE#PBF-ND	3A, Mono. Sync. Step-Down Regulator*	16-TSSOP	7.90	5.64	4.65
LTC3413EFE#PBF-ND	3A, Mono. Sync. Step-Down Regulator*	16-TSSOP	7.90	5.72	4.67
LTC3414EFE#PBF-ND	4A, Mono. Sync. Step-Down Regulator*	20-TSSOP	9.00	6.07	5.00
LTC3415EUHF#PBF-ND	7A, PolyPhase® Sync. Step-Down Regulator*	38-QFN	13.83	9.29	7.65
LTC3416EFE#PBF-ND	4A, 4MHz, Mono. Sync. Step-Down Regulator*	20-TSSOP	9.83	6.60	5.44
LTC3417AEDHC#PBF-ND	Dual Sync. 1.5A/1A, Step-Down DC/DC Reg.*	16-DFN	6.90	4.93	4.06
LTC3417AEDHC-2#PBF-ND	Dual Sync. 1.5A/1A, Step-Down DC/DC Reg.*	16-DFN	6.23	4.19	3.56
LTC3417AEFE#PBF-ND	Dual Sync. 1.5A/1A, Step-Down DC/DC Reg.*	20-TSSOP	7.30	5.21	4.29
LTC3417AEFE-2#PBF-ND	Dual Sync. 1.5A/1A, Step-Down DC/DC Reg.*	20-TSSOP	6.65	4.47	3.80
LTC3417AIFE-2#PBF-ND	Dual Sync. 1.5A/1A, Step-Down DC/DC Reg.*	20-TSSOP	7.58	5.10	4.34
LTC3418EUHF#PBF-ND	8A, Mono. Sync. Step-Down Regulator*	38-QFN	12.18	8.19	6.74
LTC3419EDD#PBF-ND	Dual Mono 600mA Sync. Step-Down Regulator*	8-DFN	3.90	2.79	2.29
LTC3419EMS#PBF-ND	Dual Mono 600mA Sync. Step-Down Regulator*	10-MSOP	3.90	2.79	2.29
LTC3419IDD#PBF-ND	Dual, 600mA, Sync. Step-Down DC/DC Reg.* ***NEW!***	8-DFN	4.55	3.07	2.61
LTC3419IMS#PBF-ND	Dual, 600mA, Sync. Step-Down DC/DC Reg.* ***NEW!***	10-MSOP	4.55	3.07	2.61
LTC3421EUF#PBF-ND	3A µPwr Sync. Boost Conv., Output Disconnect*	24-QFN	7.00	5.00	4.12
LTC3422EDD#PBF-ND	1.5A µPwr Sync. Boost Conv.,Output Disconnect*	10-DFN	5.90	4.21	3.47
LTC3423EMS-ND	1A µPwr Sync. Boost DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3426ES6#TRMPBFCT-ND	1.2MHz Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LTC3426ES6#TRMPBFTR-ND	1.2MHz Step-Up DC/DC Converter*	TSOT-23-6	955.00/500		
LTC3428EDD#PBF-ND	4A, 2MHz, Dual Phase Boost DC/DC Converter*	10-DFN	7.00	4.65	3.73
LTC3429ES6#TRMPBFCT-ND	600mA µPwr Sync. Boost Converter*	TSOT-23-6	4.56	4.08	3.67
LTC3429ES6#TRMPBFTR-ND	600mA µPwr Sync. Boost Converter*	TSOT-23-6	1065.00/500		
LTC3441EDE#PBF-ND	µPwr Sync. Buck-Boost DC/DC Converter*	12-DFN	7.10	5.07	4.18
LTC3440EMS#PBF-ND	µPwr Sync. Buck-Boost DC/DC Converter*	10-MSOP	5.83	3.87	2.92
LTC3442EDE#PBF-ND	µPwr Sync. Buck-Boost DC/DC Converter*	12-DFN	8.00	5.32	4.21
LTC3443EDE#PBF-ND	µPwr Sync. Buck-Boost DC/DC Converter*	12-DFN	7.10	4.72	3.78
LTC3445EUF#PBF-ND	I^2C Controllable Buck Regulator*	24-QFN	4.90	3.50	2.88
LTC3446EDE#PBF-ND	Mono. Sync Buck Regulator w/Dual VLDO Reg.*	14-DFN	5.50	3.93	3.24
LTC3447EDD#PBF-ND	I^2C Controllable Buck Regulator*	10-DFN	3.90	2.79	2.29
LTC3448EDD-ND	600mA Sync. Step-Down Reg.	8-DFN	4.10	2.93	2.41
LTC3450EUD#PBF-ND	Triple Output Pwr. Supply for TFT-LCD Displays*	16-QFN	5.00	3.57	2.94
LTC3499EDD#PBF-ND	750mA Sync. Step-Up DC/DC Converter*	8-DFN	4.30	3.07	2.53
LTC3499EMS8#PBF-ND	750mA Sync. Step-Up DC/DC Converter*	8-MSOP	4.30	3.07	2.53
LTC3520EUF#PBF-ND	Sync.1A Buck Boost and 600mA Buck Converter*	24-QFN	7.00	5.00	4.12
LTC3522EUD#PBF-ND	Sync. 400mA Buck Boost and 200mA Buck*	16-QFN	5.00	3.57	2.94
LTC3523EUD#PBF-ND	Sync. 600mA Step-Up and 400mA Step-Down*	16-DFN	6.28	4.22	3.58
LTC3525ESC6-3#TRMPBFCT-ND	400mA Sync. Step-Up DC/DC Converter* ***NEW!***	SC70-6	4.14	3.70	3.33
LTC3525ESC6-3#TRMPBFTR-ND	400mA Sync. Step-Up DC/DC Converter* ***NEW!***	SC70-6	1060.00/500		
LTC3525ESC6-3.3#TRMPBFCT-ND	400mA µPwr Sync. Step-Up DC/DC Converter*	SC70-6	4.14	3.70	3.33
LTC3525ESC6-3.3#TRMPBFTR-ND	400mA µPwr Sync. Step-Up DC/DC Converter*	SC70-6	1060.00/500		
LTC3525ESC6-5#TRMPBFCT-ND	400mA µPwr Sync. Step-Up DC/DC Converter*	SC70-6	4.14	3.70	3.33
LTC3525ESC6-5#TRMPBFTR-ND	400mA µPwr Sync. Step-Up DC/DC Converter*	SC70-6	1060.00/500		
LTC3528BEDDB-2#TRMPBFCT-ND	1A, 1MHz Sync. Step-Up DC/DC Converter*	8-DFN	4.76	4.25	3.83
LTC3528BEDDB-2#TRMPBFTR-ND	1A, 1MHz Sync. Step-Up DC/DC Converter*	8-DFN	1185.00/500		
LTC3529EDCB#TRMPBFCT-ND	1.5A, 1.5MHz Step-Up DC/DC Converter*	8-DFN	4.98	4.45	4.01
LTC3529EDCB#TRMPBFTR-ND	1.5A, 1.5MHz Step-Up DC/DC Converter*	8-DFN	1245.00/500		
LTC3530EDD#PBF-ND	Sync. Buck Boost DC/DC Converter*	10-DFN	5.50	4.24	3.35
LTC3530EMS#PBF-ND	Sync. Buck Boost DC/DC Converter*	10-MSOP	5.83	4.50	3.55
LTC3531EDD#PBF-ND	200mA Sync. Buck Boost DC/DC Converter*	8-DFN	3.90	2.79	2.29
LTC3532EDD#PBF-ND	500mA Sync. Buck Boost DC/DC Converter*	10-DFN	4.70	3.36	2.77
LTC3532EMS#PBF-ND	500mA Sync. Buck Boost DC/DC Converter*	10-MSOP	4.70	3.36	2.77
LTC3533EDE#PBF-ND	2A Sync. Buck Boost DC/DC Converter*	14-DFN	7.13	5.07	4.18
LTC3534EGN#PBF-ND	500mA Sync. Buck-Boost DC/DC Converter*	16-SSOP	6.70	4.50	3.83
LTC3535EDD#PBF-ND	550mA Sync. Dual Ch. Step-Up DC/DC Conv.*	12-DFN	6.28	4.22	3.58
LTC3537EUD#PBF-ND	600mA Sync. Step-Up Converter w/100mA LDO*	16-QFN	5.10	3.43	2.91
LTC3538EDCB#TRMPBFCT-ND	800mA Sync. Buck Boost DC/DC Converter*	8-DFN	5.82	5.20	4.68
LTC3538EDCB#TRMPBFTR-ND	800mA Sync. Buck Boost DC/DC Converter*	8-DFN	1500.00/500		
LTC3541EDD#PBF-ND	High Efficiency Buck/VLDO Regulator*	10-QFN	3.78	2.70	2.22
LTC3542EDC#TRMPBFCT-ND	500mA Sync. Step-Down DC/DC Converter*	6-DFN	3.70	3.30	2.97
LTC3542EDC#TRMPBFTR-ND	500mA Sync. Step-Down DC/DC Converter*	6-DFN	965.00/500		
LTC3542ES6#TRMPBFCT-ND	500mA Sync. Step-Down DC/DC Converter*	TSOT-23-6	3.70	3.30	2.97
LTC3542ES6#TRMPBFTR-ND	500mA Sync. Step-Down DC/DC Converter*	TSOT-23-6	965.00/500		
LTC3544BEUD#PBF-ND	Quad Sync. Step-Down Regulator*	16-QFN	5.90	4.21	3.47
LTC3544EUD#PBF-ND	Quad Sync. Step-Down Regulator*	16-QFN	5.90	4.21	3.47
LTC3545EUD#PBF-ND	Triple 800mA Sync. Step-Down Regulator*	16-QFN	6.20	4.43	3.65
LTC3546EFE#PBF-ND	Dual Sync. 2A/1A Step-Down DC/DC Reg.* ***NEW!***	28-TSSOP	8.30	5.57	4.74
LTC3546EUFD#PBF-ND	Dual Sync. 2A/1A Step-Down DC/DC Regulator*	28-QFN	7.98	5.36	4.55
LTC3547EDDB#TRMPBFCT-ND	300mA, Dual Mono Sync. Step-Down Regulator*	8-DFN	4.48	4.00	3.60
LTC3547EDDB#TRMPBFTR-ND	300mA, Dual Mono Sync. Step-Down Regulator*	8-DFN	1145.00/500		
LTC3548AEDD#PBF-ND	Dual 400mA/800mA Sync. Step-Down Reg.* ***NEW!***	10-DFN	5.20	3.71	3.16
LTC3548AEMSE#PBF-ND	Dual 400mA/800mA Sync. Step-Down Reg.* ***NEW!***	10-MSOP	3.16	3.71	3.16
LTC3548EDD#PBF-ND	Dual 400mA/800mA Sync. Step-Down Reg.*	10-DFN	5.20	3.71	3.06
LTC3549EDCB#TRMPBFCT-ND	250mA Low Voltage In Buck Regulator*	6-DFN	3.33	2.98	2.68
LTC3549EDCB#TRMPBFTR-ND	250mA Low Voltage In Buck Regulator*	6-DFN	845.00/500		
LTC3560ES6#TRMPBFCT-ND	800mA, 2.25MHz Sync Step-Down Regulator*	TSOT-23-6	4.37	3.90	3.51
LTC3560ES6#TRMPBFTR-ND	800mA, 2.25MHz Sync Step-Down Regulator*	TSOT-23-6	1120.00/500		
LTC3561AEDD#PBF-ND	1A, 4MHz Sync. Step-Down DC/DC Converter*	8-DFN	3.73	2.50	2.13
LTC3561AIDD#PBF-ND	1A, 4MHz Sync. Step-Down DC/DC Converter*	8-DFN	4.28	2.87	2.44
LTC3561EDD#PBF-ND	1A, 4MHz, Sync. Step-Down DC/DC Converter*	8-DFN	5.00	3.57	2.94
LTC3562EUD#PBF-ND	Quad Sync. Step-Down DC/DC Regulator*	20-QFN	6.50	4.64	3.82
LTC3564EDCB#TRMPBFCT-ND	1.25A, 2.25MHz Sync. Step-Down Regulator*	6-DFN	4.76	4.25	3.83
LTC3564EDCB#TRMPBFTR-ND	1.25A, 2.25MHz Sync. Step-Down Regulator*	6-DFN	1185.00/500		
LTC3564ES5#TRMPBFCT-ND	1.25A, 2.25MHz Sync. Step-Down Regulator*	TSOT-23-5	4.76	4.25	3.83
LTC3564ES5#TRMPBFTR-ND	1.25A, 2.25MHz Sync. Step-Down Regulator*	TSOT-23-5	1185.00/500		
LTC3565EDD#PBF-ND	1.25A, 4MHz Sync. Step-Down DC/DC Converter*	10-DFN	4.25	2.86	2.43
LTC3565EMSE#PBF-ND	1.25A, 4MHz Sync. Step-Down DC/DC Converter*	10-MSOP	4.25	2.86	2.43
LTC3568EDD#PBF-ND	1.8A, 4MHz, Sync. Step-Down DC/DC Converter*	10-DFN	5.90	4.21	3.47
LTC3569EFE#PBF-ND	Triple 1.2A/600mA/600mA Buck Regulator*	16-TSSOP	6.80	4.57	3.89
LTC3569EUD#PBF-ND	Triple 1.2A/600mA/600mA Buck Regulator*	20-QFN	6.60	4.43	3.76
LTC3588EDD-1#PBF-ND	Piezoelectric Energy Harvesting Supply* ***NEW!***	10-DFN	6.28	4.22	3.58
LTC3588EMSE-1#PBF-ND	Piezoelectric Energy Harvesting Supply* ***NEW!***	10-MSOP	6.28	4.22	3.58
LTC3588IMSE-1#PBF-ND	Piezoelectric Energy Harvesting Supply* ***NEW!***	10-MSOP	7.38	4.96	4.21
LTC3601EMSE#PBF-ND	1.5A, 15V Mono. Sync. Step-Down Reg.* ***NEW!***	16-MSOP	4.90	3.29	2.79
LTC3601EUD#PBF-ND	1.5A, 15V Mono. Sync. Step-Down Reg.* ***NEW!***	16-QFN	4.90	3.29	2.79
LTC3602EFE#PBF-ND	2.5A, 10V Mono Sync. Step-Down Regulator*	16-TSSOP	8.73	5.86	4.98
LTC3602EUF#PBF-ND	2.5A, 10V Mono Sync. Step-Down Regulator*	20-QFN	8.50	5.71	4.86
LTC3603EMSE#PBF-ND	2.5A, 15V Mono Sync. Step-Down Regulator*	16-MSOP	6.90	4.64	3.95
LTC3604EMSE#PBF-ND	2.5A, 15V Mono Sync. Step-Down Reg.* ***NEW!***	16-MSOP	6.90	4.64	3.95
LTC3604EUD#PBF-ND	2.5A, 15V Mono Sync. Step-Down Reg.* ***NEW!***	16-QFN	6.90	4.64	3.95
LTC3605EUF#PBF-ND	5A, 15V Sync. Step-Down Regulator*	24-QFN	9.03	6.07	5.16
LTC3606BEDD#PBF-ND	800mA, Adj. Sync. Step-Down Regulator* ***NEW!***	8-DFN	4.48	3.00	2.55
LTC3608EWKG#PBF-ND	8A, 18V Mono Sync. Step-Down Reg.* ***NEW!***	52-QFN	15.95	10.70	9.11
LTC3608IWKG#PBF-ND	8A, 18V Mono Sync. Step-Down Regulator*	52-QFN	18.33	12.33	10.48
LTC3609EWKG#PBF-ND	6A, 32V Mono Sync. Step-Down Regulator*	52-QFN	16.48	11.07	9.41
LTC3610EWP#PBF-ND	12A, 24V, Mono Sync. Step-Down Regulator*	64-QFN	17.00	12.14	10.00
LTC3612EFE#PBF-ND	3A, Adj. Mono Sync. Step-Down Reg.* ***NEW!***	20-TSSOP	6.90	4.64	3.95
LTC3612EUDC#PBF-ND	3A, Adj. Mono Sync. Step-Down Reg.* ***NEW!***	20-QFN	6.60	4.43	3.76
LTC3616EUDD#PBF-ND	6A, Adj. Sync. Step-Down Regulator* ***NEW!***	24-QFN	8.08	5.43	4.61
LTC3619BEDD#PBF-ND	.4A/.8A, Dual Adj. Sync. Step-Down Reg.* ***NEW!***	10-DFN	4.78	3.22	2.73
LTC3619EDD#PBF-ND	.4A/.8A, Dual Adj. Sync. Step-Down Reg.* ***NEW!***	10-DFN	4.78	3.22	2.73
LTC3619EMSE#PBF-ND	.4A/.8A, Dual Adj. Sync. Step-Down Reg.* ***NEW!***	10-MSOP	4.78	3.22	2.73
LTC3620EDC#TRMPBFCT-ND	15mA, Adj. Sync. Step-Down Regulator* ***NEW!***	8-DFN	4.76	4.25	3.83
LTC3620EDC#TRMPBFTR-ND	15mA, Adj. Sync. Step-Down Regulator* ***NEW!***	8-DFN	1185.00/500		
LTC3620EDC-1#TRMPBFCT-ND	15mA, 1.1V Sync. Step-Down Regulator* ***NEW!***	8-DFN	4.76	4.25	3.83
LTC3620EDC-1#TRMPBFTR-ND	15mA, 1.1V Sync. Step-Down Regulator* ***NEW!***	8-DFN	1185.00/500		
LTC3631EDD#PBF-ND	Adj., 100mA Sync. Step-Down Converter* ***NEW!***	8-DFN	6.28	4.22	3.58
LTC3631EDD-3.3#PBF-ND	3.3V, 100mA Sync. Step-Down Converter* ***NEW!***	8-DFN	6.28	4.22	3.58
LTC3631EDD-5#PBF-ND	5V, 100mA Sync. Step-Down Converter* ***NEW!***	8-DFN	6.28	4.22	3.58
LTC3631EMS8E#PBF-ND	Adj., 100mA Sync. Step-Down Converter* ***NEW!***	8-MSOP	6.28	4.22	3.58
LTC3631EMS8E-3.3#PBF-ND	3.3V, 100mA Sync. Step-Down Converter* ***NEW!***	8-MSOP	6.28	4.22	3.58
LTC3631EMS8E-5#PBF-ND	5V, 100mA Sync. Step-Down Converter* ***NEW!***	8-MSOP	6.28	4.22	3.58
LTC3632EMS8E#PBF-ND	Adj., 20mA Sync. Step-Down Converter* ***NEW!***	8-MSOP	5.20	3.50	2.98
LTC3633EFE#PBF-ND	3A, Dual Adj. Sync. Step-Down Reg.* ***NEW!***	28-TSSOP	9.35	6.29	5.34
LTC3633EUFD#PBF-ND	3A, Dual Adj. Sync. Step-Down Reg.* ***NEW!***	28-QFN	9.03	6.07	5.16
LTC3642EDD#PBF-ND	50mA, Adj. Sync. Step-Down DC/DC Converter*	8-DFN	5.63	3.79	3.22
LTC3642EDD-3.3#PBF-ND	50mA, 3.3V Sync. Step-Down DC/DC Converter*	8-DFN	5.63	3.79	3.22
LTC3642EDD-5#PBF-ND	50mA, 5V Sync. Step-Down DC/DC Converter*	8-DFN	5.63	3.79	3.22
LTC3642EMS8E#PBF-ND	50mA, Adj. Sync. Step-Down DC/DC Converter*	8-MSOP	5.63	3.79	3.22
LTC3642EMS8E-3.3#PBF-ND	50mA, 3.3V Sync. Step-Down DC/DC Converter*	8-MSOP	5.63	3.79	3.22
LTC3642EMS8E-5#PBF-ND	50mA, 5V Sync. Step-Down DC/DC Converter*	8-MSOP	5.63	3.79	3.22
LTC3700EMS-ND	Constant Freq. Step-Down Controller w/LDO Reg.	10-MSOP	4.63	3.30	2.72
LTC3700EMS#PBF-ND	Constant Freq. Step-Down Ctrlr. w/LDO Reg.*	10-MSOP	4.63	3.30	2.72
LTC3701EGN#PBF-ND	2-Phase Dual Step-Down DC/DC Controller*	16-SSOP	7.00	4.65	3.50
LTC3704EMS#PBF-ND	Positive to Negative DC/DC Controller*	10-MSOP	3.75	2.68	2.21
LTC3707EGN#PBF-ND	2-Phase Sync. Step-Down Switching Regulator*	28-SSOP	9.13	6.06	4.64
LTC3708EUH#PBF-ND	Fast 2-Phase, No RSENSE™ Buck Controller*	32-QFN	9.63	6.40	5.11
LTC3713EG#PBF-ND	Low Input Voltage, HP, Sync. DC/DC Ctrlr.*	24-SSOP	8.38	5.57	4.19
LTC3717EGN#PBF-ND	Synchronous Step-Down Controller for DDR*	16-SSOP	6.13	4.07	3.07
LTC3717EUH-1-ND	Synchronous Step-Down Controller for DDR	32-QFN	6.63	4.73	3.90
LTC3717EUH-1#PBF-ND	Synchronous Step-Down Controller for DDR*	32-QFN	6.63	4.73	3.90
LTC3721EGN-1#PBF-ND	Push-Pull PWM Controller*	16-SSOP	9.13	6.52	5.37
LTC3722EGN-1#PBF-ND	Sync. Dual Modulated Full Bridge Controller*	24-SSOP	11.00	7.31	5.61
LTC3723EGN-1#PBF-ND	Sync. Push-Pull PWM Controller*	16-SSOP	9.38	6.70	5.51
LTC3727EG#PBF-ND	2-Phase Sync. Step-Down Switching Regulator*	28-SSOP	10.25	6.93	5.71
LTC3727EUH-1#PBF-ND	2-Phase Sync. Step-Down Switching Regulator*	32-QFN	10.88	7.23	5.94
LTC3728EG#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Reg.*	28-SSOP	10.25	6.81	5.13
LTC3728EUH#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Reg.*	32-QFN	10.50	7.50	6.18
LTC3729EG#PBF-ND	PolyPhase Sync. Step-Down Switching Reg.*	28-SSOP	11.88	7.89	5.94
LTC3729EUH#PBF-ND	PolyPhase Sync. Step-Down Switching Reg.*	32-QFN	12.13	8.66	7.13
LTC3732CG-ND	3-Phase 5-Bit VID Sync. Buck Switch Reg. Ctrlr.	36-SSOP	8.75	5.81	4.63
LTC3732CG#PBF-ND	3-Phase 5-Bit VID Sync. Buck Switch Reg. Ctrlr.*	36-SSOP	8.75	5.81	4.63
LTC3736EGN#PBF-ND	Dual 2-Phase, No RSENSE™, Sync. Controller*	24-SSOP	7.63	5.45	4.49
LTC3736EUF#PBF-ND	Dual 2-Phase, No RSENSE™, Sync. Controller*	24-QFN	7.88	5.63	4.63
LTC3737EUF#PBF-ND	Dual 2-Phase, No RSENSE™, DC/DC Controller*	24-QFN	7.38	5.27	4.34
LTC3776EGN#PBF-ND	Dual 2-Phase, No RSENSE™, Sync. Controller*	24-SSOP	7.50	5.36	4.41
LTC3778EF#PBF-ND	Wide Operating Range, Sync. Step-Down Ctrlr.*	20-TSSOP	7.13	4.74	3.57
LTC3780EG#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	24-SSOP	9.50	6.64	5.47
LTC3780EUH#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	32-QFN	9.50	6.64	5.47
LTC3780IG#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	24-SSOP	11.00	7.64	6.29
LTC3780IUH#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	32-QFN	11.00	7.64	6.29
LTC3785EUF#PBF-ND	High Eff., Sync., No RSENSE™ Buck Boost Ctrlr.*	24-QFN	7.13	5.09	4.19
LTC3788EGN-1#PBF-ND	Dual 2-Phase Sync. Boost Controller* ***NEW!***	28-SSOP	8.75	5.89	5.00
LTC3803HS6#TRMPBFCT-ND	Current Mode Flyback DC/DC Controller*	TSOT23-6	3.75	3.35	3.02
LTC3803HS6#TRMPBFTR-ND	Current Mode Flyback DC/DC Controller*	TSOT23-6	990.00/500		
LTC3805EDD#PBF-ND	Current Mode Flyback DC/DC Controller*	10-DFN	2.75	2.01	1.64
LTC3805HMSE#PBF-ND	Current Mode Flyback DC/DC Controller*	10-MSOP	3.75	2.51	2.14
LTC3805HMSE-5#PBF-ND	Current Mode Flyback/Boost/ SEPIC DC/DC Ctrlr.*	10-MSOP	3.75	2.51	2.14
LTC3809EDD#PBF-ND	No RSENSE™, Low EMI, Sync. DC/DC Controller*	10-DFN	5.00	3.57	2.94
LTC3809EDD-1#PBF-ND	No RSENSE™ Sync. DC/DC Controller*	10-DFN	5.00	3.57	2.94
LTC3809EMSE#PBF-ND	No RSENSE™ Low EMI, Sync. DC/DC Controller*	10-MSOP	5.00	3.57	2.94
LTC3809EMSE-1#PBF-ND	No RSENSE™ Sync. DC/DC Controller*	10-MSOP	5.00	3.57	2.94
LTC3810EG#PBF-ND	100V Current Mode Sync. Switching Reg. Ctrlr.*	28-SSOP	7.00	5.00	4.12
LTC3810EUH-5#PBF-ND	60V Current Mode Sync. Switching Reg. Ctrlr.*	32-QFN	6.75	4.83	3.98
LTC3811EG#PBF-ND	Dual Sync. Step-Down DC/DC Controller*	36-SSOP	7.50	5.36	4.41
LTC3811EUHF#PBF-ND	Dual Sync. Step-Down DC/DC Controller*	38-QFN	7.50	5.36	4.41
LTC3812EFE-5#PBF-ND	60V Current Mode Sync. Switching Reg. Ctrlr.*	16-TSSOP	6.50	4.64	3.82

** RoHS Compliant*

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(Continued)

LINEAR TECHNOLOGY DigiReel® *(Cont.)* **POWER MANAGEMENT**

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC3813EG#PBF-ND	100V Current Mode Sync. Step-Up Controller*	28-SSOP	7.50	5.36	4.41
LTC3814EFE-5#PBF-ND	60V Current Mode Sync. Step-Up Controller*	16-TSSOP	7.00	5.00	4.12
LTC3822EDD#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.*	10-DFN	3.13	2.35	1.94
LTC3822EGN-1#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.*	16-SSOP	3.50	2.66	2.19
LTC3822EMSE#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.*	10-MSOP	3.13	2.35	1.94
LTC3823EGN#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.*	28-SSOP	5.50	3.93	3.24
LTC3823IGN#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.* ***NEW!***	28-SSOP	6.25	4.20	3.57
LTC3823IUH#PBF-ND	No RSENSE™ Sync. Step-Down DC/DC Ctrlr.* ***NEW!***	32-QFN	6.25	4.20	3.57
LTC3824EMSE#PBF-ND	High Voltage Step-Down Controller*	10-MSOP	4.00	2.78	2.30
LTC3826EG-1#PBF-ND	30µA IQ, Dual, 2-Phase Sync. Step-Down Ctrlr.*	28-SSOP	10.75	7.69	6.33
LTC3826EUH#PBF-ND	30µA IQ, Dual, 2-Phase Sync. Step-Down Ctrlr.*	32-QFN	11.00	7.86	6.47
LTC3827IG-1#PBF-ND	Low IQ, Dual, 2-Phase Sync. Step-Down Ctrlr.*	28-SSOP	11.75	8.64	7.12
LTC3830-1ES8-ND	HP Sync. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3830EGN-ND	HP Sync. Step-Down DC/DC Controller	16-SSOP	7.75	5.15	3.88
LTC3830ES-ND	HP Sync. Step-Down DC/DC Controller	16-SOIC	7.13	4.74	3.57
LTC3830ES#PBF-ND	HP Sync. Step-Down DC/DC Controller*	16-SOIC	7.13	4.74	3.57
LTC3830ES8-ND	HP Sync. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3831EGN-ND	Adj., 100mA Sync. Step-Down Converter	16-SSOP	6.00	3.99	3.00
LTC3831EGN#PBF-ND	Adj., 100mA Sync. Step-Down Converter*	16-SSOP	6.00	3.99	3.00
LTC3832-1ES8-ND	HP Step-Down Sync. DC/DC Controller	8-SOIC	5.88	4.20	3.46
LTC3832-1ES8#PBF-ND	HP Step-Down Sync. DC/DC Controller*	8-SOIC	5.88	4.20	3.46
LTC3832EGN#PBF-ND	HP Step-Down Sync. DC/DC Controller*	16-SSOP	6.25	4.46	3.68
LTC3834EFE#PBF-ND	30µA IQ Sync. Step-Down Controller*	20-TSSOP	7.75	5.54	4.57
LTC3835IFE#PBF-ND	Low IQ Sync. Step-Down Controller*	20-TSSOP	8.50	6.14	5.22
LTC3835IGN-1#PBF-ND	Low IQ Sync. Step-Down Controller*	16-SSOP	8.25	6.00	4.94
LTC3835IUFD#PBF-ND	Low IQ Sync. Step-Down Controller*	20-QFN	8.50	6.14	5.22
LTC3850EGN#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Ctrlr.*	28-SSOP	4.88	3.43	2.82
LTC3850EUF#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Ctrlr.*	28-QFN	4.88	3.43	2.82
LTC3851EGN#PBF-ND	Sync. Step-Down Switching Regulator Controller*	16-SSOP	3.63	2.44	2.08
LTC3851EMSE#PBF-ND	Sync. Step-Down Switching Regulator Controller*	16-MSOP	3.63	2.44	2.08
LTC3851EMSE-1#PBF-ND	Sync. Step-Down Switching Regulator Controller*	16-MSOP	3.63	2.44	2.08
LTC3851EUD#PBF-ND	Sync. Step-Down Switching Regulator Controller*	16-QFN	3.63	2.44	2.08
LTC3851IGN#PBF-ND	Sync. Step-Down Switching Regulator Controller*	16-SSOP	4.13	2.77	2.36
LTC3853EUJ#PBF-ND	Triple Output Sync. Step-Down Controller*	40-QFN	7.50	5.04	4.29
LTC3853IUJ#PBF-ND	Triple Output Sync. Step-Down Controller*	40-QFN	8.38	5.63	4.78
LTC3854EMSE#PBF-ND	Sync. Step-Down Switching Reg. Ctrlr.* ***NEW!***	12-MSOP	3.50	2.36	2.00
LTC3857EGN-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-SSOP	9.50	6.39	5.43
LTC3857EUH#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	32-QFN	9.75	6.59	5.57
LTC3858EGN-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-SSOP	9.50	6.39	5.43
LTC3858EUFD-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-QFN	9.75	6.56	5.57
LTC3858EUH#PBF-ND	Dual Synchronous Step-Down Controller* ***NEW!***	32-QFN	9.75	6.56	5.57
LTC3860EUH#PBF-ND	Dual Synchronous Step-Down Controller* ***NEW!***	32-QFN	5.50	3.70	3.15
LTC3862EFE#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-TSSOP	7.25	4.87	4.14
LTC3862EFE-1#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-TSSOP	7.25	4.87	4.14
LTC3862EGN#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-SSOP	7.00	4.70	4.00
LTC3862HUH#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-QFN	8.50	5.71	4.86
LTC3862IGN#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-SSOP	7.88	5.30	4.51
LTC3862IUH#PBF-ND	Multi-Phase Current Mode Step-Up DC/DC Ctrlr.*	24-QFN	7.88	5.30	4.51
LTC3865EFE#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	38-TSSOP	6.13	4.08	3.47
LTC3865EUH#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	32-QFN	5.63	3.79	3.22
LTC3865EUH-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	32-QFN	5.63	3.79	3.22
LTC3868EGN-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-SSOP	5.50	3.70	3.14
LTC3868EUFD-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-QFN	5.75	3.87	3.29
LTC3868EUH#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	32-QFN	5.75	3.87	3.29
LTC3872ETS8#TRMPBFCT-ND	No RSENSE™ Current Mode Boost DC/DC Ctrlr.*	TSOT-23-8	4.31	3.85	3.47
LTC3872ETS8#TRMPBFTR-ND	No RSENSE™ Current Mode Boost DC/DC Ctrlr.*	TSOT-23-8	1060.00/500		
LTC3873EDDB#TRMPBFCT-ND	No RSENSE™ Constant Freq. Controller*	8-DFN	2.91	2.60	2.34
LTC3873EDDB#TRMPBFTR-ND	No RSENSE™ Constant Freq. Controller*	8-DFN	735.00/500		
LTC3878EGN#PBF-ND	No RSENSE™ Sync. Step-Down Ctrlr.* ***NEW!***	16-SSOP	4.68	3.14	2.67
LTC3879EMSE#PBF-ND	No RSENSE™ Sync. Step-Down Ctrlr.* ***NEW!***	16-MSOP	5.00	3.36	2.85
LTC3879EUD#PBF-ND	No RSENSE™ Sync. Step-Down Ctrlr.* ***NEW!***	16-QFN	5.00	3.36	2.85
LTC3890EGN-1#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	28-SSOP	10.13	6.80	5.78
LTC3890EUH#PBF-ND	Dual 2-Phase Sync. Step-Down Ctrlr.* ***NEW!***	32-QFN	10.38	6.97	5.93
LT3970EDDB-3.3#TRMPBFCT-ND	40V, 350mA Step-Down Regulator* ***NEW!***	10-DFN	5.71	5.10	4.59
LT3970EDDB-3.3#TRMPBFTR-ND	40V, 350mA Step-Down Regulator* ***NEW!***	10-DFN	1425.00/500		
Supervisors					
LT2940CDD#PBF-ND	4-Quadrant Power and Current Monitor* ***NEW!***	12-DFN	4.35	2.93	2.49
LT2940CMS#PBF-ND	4-Quadrant Power and Current Monitor* ***NEW!***	12-MSOP	4.35	2.93	2.49
LT2940IDD#PBF-ND	4-Quadrant Power and Current Monitor* ***NEW!***	12-DFN	5.23	3.51	2.99
LT2940IMS#PBF-ND	4-Quadrant Power and Current Monitor* ***NEW!***	12-MSOP	5.23	3.51	2.99
LTC690CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	6.25	4.17	3.50
LTC690CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	6.88	4.58	3.75
LTC691CN#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-Dip	7.40	4.92	3.80
LTC691CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-SOIC	8.10	5.38	4.15
LTC692CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC692CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	6.88	4.58	3.75
LTC693CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC694CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	6.80	4.52	3.50
LTC694CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	7.30	4.85	3.75
LTC694CS8-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT*	8-SOIC	8.10	5.38	4.20
LTC695CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-SOIC	7.50	5.00	4.15
LTC695CSW-3.3-ND	3.3V MPU Supervisor Reset Circuit and WDT	16-SOIC	8.13	5.42	4.55
LTC695CSW-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT*	16-SOIC	8.13	5.42	4.55
LTC699CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	4.90	3.26	2.47
LTC699CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	5.30	3.52	2.67
LTC1232CS8#PBF-ND	MPU Supervisory Circuit with WDT*	8-SOIC	3.80	2.53	1.95
LTC1235CN#PBF-ND	MPU Supervisor Circuit with Battery Backup*	16-Dip	6.88	4.60	3.80
LTC1235CSW#PBF-ND	MPU Supervisor Circuit with Battery Backup*	16-SOIC	7.50	5.00	4.15
LTC1326CMS8-2.5#PBF-ND	2.5V, MPU Precision Triple Supply Monitor*	8-MSOP	4.63	3.08	2.45
LTC1326CS8#PBF-ND	Micropower Precision Triple Supply Monitor*	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5#PBF-ND	2.5V, MPU Precision Triple Supply Monitor*	8-SOIC	4.38	2.91	2.35
LTC1536CMS8-ND	Triple Supply Monitor for PCI Applications	8-MSOP	6.20	4.12	3.35
LTC1536CS8#PBF-ND	Triple Supply Monitor for PCI Applications*	8-SOIC	5.30	3.52	2.85
LTC1726EMS8-2.5#PBF-ND	2.5V Triple Supply Monitor*	8-MSOP	3.88	2.58	2.00
LTC1727EMS8-2.5#PBF-ND	2.5V Precision Triple Supply Monitor*	8-MSOP	3.88	2.58	2.00
LTC1728ES5-3.3#TRMPBFCT-ND	3.3V Precision Triple Supply Monitor*	TSOT-23-5	3.44	3.08	2.77
LTC1728ES5-3.3#TRMPBFTR-ND	3.3V Precision Triple Supply Monitor*	TSOT-23-5	768.75/500		
LTC2900-1CDD-ND	Programmable Quad Supply Monitor	10-DFN	4.13	2.74	2.20
LTC2900-1CDD#PBF-ND	Programmable Quad Supply Monitor*	10-DFN	4.13	2.74	2.20
LTC2900-1CMS#PBF-ND	Programmable Quad Supply Monitor*	10-MSOP	3.63	2.41	2.00
LTC2900-2CMS#PBF-ND	Programmable Quad Supply Monitor*	10-MSOP	3.63	2.41	2.00
LTC2901-1CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.08	2.55
LTC2901-3CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.08	2.55
LTC2901-4CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.08	2.55
LTC2902-1CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.30	2.72

LINEAR TECHNOLOGY DigiReel® *(Cont.)* **POWER MANAGEMENT**

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2902-2CGN-ND	Programmable Quad Supply Monitor	16-SSOP	4.63	3.30	2.72
LTC2902-2CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.30	2.72
LTC2903CS6-A1#TRMPBFCT-ND	Adjustable Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-A1#TRMPBFTR-ND	Adjustable Precision Quad Supply Monitor*	SOT-23-6	1025.00/500		
LTC2903CS6-B1#TRMCT-ND	Positive Precision Quad Supply Monitor	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-B1#TRMPBFCT-ND	Positive Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-D1#TRMPBFCT-ND	Adj. Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-D1#TRMPBFTR-ND	Adj. Precision Quad Supply Monitor*	SOT-23-6	1025.00/500		
LTC2915CDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.46	2.20	1.98
LTC2915CTS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.46	2.20	1.98
LTC2915CTS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	815.00/500		
LTC2915HDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.83	2.53	2.28
LTC2915HTS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.83	2.53	2.28
LTC2915HTS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	935.00/500		
LTC2915IDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.72	2.43	2.19
LTC2915IDDB-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	8-DFN	895.00/500		
LTC2915ITS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.72	2.43	2.19
LTC2915ITS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	895.00/500		
LTC2916CDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.46	2.20	1.98
LTC2916CDDB-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	8-DFN	815.00/500		
LTC2916CTS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.46	2.20	1.98
LTC2916CTS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	815.00/500		
LTC2916HDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.83	2.53	2.28
LTC2916HTS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.83	2.53	2.28
LTC2916HTS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	935.00/500		
LTC2916IDDB-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	8-DFN	2.72	2.43	2.19
LTC2916IDDB-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	8-DFN	895.00/500		
LTC2916ITS8-1#TRMPBFCT-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	2.72	2.43	2.19
LTC2916ITS8-1#TRMPBFTR-ND	Supervisor with Selectable Thresholds*	TSOT-23-8	895.00/500		
LTC2917CMS-A1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.60	2.32	1.91
LTC2917CMS-B1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.60	2.32	1.91
LTC2917HMS-A1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.93	2.61	2.15
LTC2917HMS-B1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.93	2.61	2.15
LTC2917IMS-A1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.80	2.50	2.06
LTC2917IMS-B1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.80	2.50	2.06
LTC2918CMS-A1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.60	2.32	1.91
LTC2918IMS-B1#PBF-ND	Supervisor with Selectable Thresholds and WDT*	10-MSOP	2.80	2.50	2.06
LTC2919HMS-2.5#PBF-ND	Triple/Dual Input UV, OV and Voltage Monitor*	10-MSOP	4.70	3.95	3.25
LTC2919CMS-5#PBF-ND	Triple/Dual Input UV, OV and Voltage Monitor*	10-MSOP	3.73	3.13	2.57
LTC2919HMS-5#PBF-ND	Triple/Dual Input UV, OV and Voltage Monitor*	10-MSOP	4.70	3.95	3.25
LTC2930CDD#PBF-ND	Configurable Six Supply Monitor, Manual Reset*	12-DFN	5.45	4.57	3.76
LTC2930HDD#PBF-ND	Configurable Six Supply Monitor, Manual Reset*	12-DFN	6.80	5.71	4.71
LTC2931CF#PBF-ND	Configurable Six Supply Monitor*	20-TSSOP	5.95	5.00	4.12
LTC2932CF#PBF-ND	Configurable Six Supply Monitor*	20-TSSOP	5.95	5.00	4.12
LTC2932HF#PBF-ND	Configurable Six Supply Monitor*	20-TSSOP	7.53	6.32	5.21
LTC2934CDC-1#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	2.86	2.55	2.30
LTC2934CDC-2#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	2.86	2.55	2.30
LTC2934CTS8-1#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	TSOT-23-8	2.86	2.55	2.30
LTC2934CTS8-2#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	TSOT-23-8	2.86	2.55	2.30
LTC2934IDC-1#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	3.25	2.90	2.61
LTC2934IDC-1#TRMPBFTR-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	830.00/500		
LTC2934IDC-2#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	3.25	2.90	2.61
LTC2934IDC-2#TRMPBFTR-ND	Adjustable Supervisor with Power Fail Output*	8-DFN	830.00/500		
LTC2934ITS8-1#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	TSOT-23-8	3.25	2.90	2.61
LTC2934ITS8-1#TRMPBFTR-ND	Adjustable Supervisor with Power Fail Output*	TSOT-23-8	830.00/500		
LTC2934ITS8-2#TRMPBFCT-ND	Adjustable Supervisor with Power Fail Output*	TSOT-23-8	3.25	2.90	2.61
LTC2935CDC-1#TRMPBFCT-ND	Supervisor with Power Fail Output*	8-DFN	3.02	2.70	2.43
LTC2935CDC-2#TRMPBFCT-ND	Supervisor with Power Fail Output*	8-DFN	3.02	2.70	2.43
LTC2935CDC-3#TRMPBFCT-ND	Supervisor with Power Fail Output*	8-QFN	3.02	2.70	2.43
LTC2935CDC-4#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	8-DFN	3.02	2.70	2.43
LTC2935CTS8-1#TRMPBFCT-ND	Supervisor with Power Fail Output*	TSOT-23-8	3.02	2.70	2.43
LTC2935CTS8-2#TRMPBFCT-ND	Supervisor with Power Fail Output*	TSOT-23-8	3.02	2.70	2.43
LTC2935CTS8-2#TRMPBFTR-ND	Supervisor with Power Fail Output*	TSOT-23-8	765.00/500		
LTC2935CTS8-3#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	TSOT-23-8	3.02	2.70	2.43
LTC2935CTS8-4#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	TSOT-23-8	3.05	2.73	2.46
LTC2935IDC-1#TRMPBFCT-ND	Supervisor with Power Fail Output*	8-DFN	3.44	3.08	2.77
LTC2935IDC-1#TRMPBFTR-ND	Supervisor with Power Fail Output*	8-DFN	875.00/500		
LTC2935IDC-2#TRMPBFCT-ND	Supervisor with Power Fail Output*	8-DFN	3.44	3.08	2.77
LTC2935IDC-2#TRMPBFTR-ND	Supervisor with Power Fail Output*	8-DFN	875.00/500		
LTC2935IDC-3#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	8-DFN	3.44	3.08	2.77
LTC2935IDC-4#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	8-DFN	3.44	3.08	2.77
LTC2935ITS8-1#TRMPBFCT-ND	Supervisor with Power Fail Output*	TSOT-23-8	3.44	3.08	2.77
LTC2935ITS8-2#TRMPBFCT-ND	Supervisor with Power Fail Output*	TSOT-23-8	3.44	3.08	2.77
LTC2935ITS8-2#TRMPBFTR-ND	Supervisor with Power Fail Output*	TSOT-23-8	875.00/500		
LTC2935ITS8-3#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	TSOT-23-8	3.44	3.08	2.77
LTC2935ITS8-4#TRMPBFCT-ND	Supervisor with Power Fail Output* ***NEW!***	TSOT-23-8	3.44	3.08	2.77
LTC2938CDE#PBF-ND	Configurable 4-Supply Monitor* ***NEW!***	12-DFN	4.58	3.07	2.61
LTC2938CMS#PBF-ND	Configurable 4-Supply Monitor* ***NEW!***	12-MSOP	4.58	3.07	2.61
LTC2938IDE#PBF-ND	Configurable 4-Supply Monitor* ***NEW!***	12-DFN	5.25	3.53	3.00
LTC2938IMS#PBF-ND	Configurable 4-Supply Monitor* ***NEW!***	12-MSOP	5.25	3.53	3.00
LTC2939CMS#PBF-ND	Configurable 6-Supply Monitor* ***NEW!***	16-MSOP	5.75	3.86	3.28
LTC2939HMS#PBF-ND	Configurable 6-Supply Monitor* ***NEW!***	16-MSOP	7.25	4.88	4.15
LTC2939IMS#PBF-ND	Configurable 6-Supply Monitor* ***NEW!***	16-MSOP	6.35	4.44	3.77
Power Controllers					
LT1248CN#PBF-ND	Power Factor Correction Controller*	16-Dip	6.88	4.58	3.65
LT1248CS#PBF-ND	Power Factor Correction Controller*	16-SOIC	7.38	4.92	3.90
LT1248IS#PBF-ND	Power Factor Correction Controller, Ind. Temp.*	16-SOIC	8.63	5.75	4.65
LT1249CN8#PBF-ND	Power Factor Correction Controller*	8-Dip	6.25	4.17	3.30
LT1249CS8#PBF-ND	Power Factor Correction Controller*	8-SOIC	6.75	4.50	3.55
LT1249IN8#PBF-ND	Power Factor Correction Controller*	8-Dip	7.13	4.75	3.75
LT1249IS8#PBF-ND	Power Factor Correction Controller, Ind. Temp.*	8-SOIC	7.75	5.56	4.76
LT1508CSW-ND	Power Factor and PWM Controller	20-SOIC	7.88	5.25	4.50
LT1508ISW-ND	Power Factor and PWM Controller, Ind. Temp.	20-SOIC	8.75	5.85	5.00
LT3420EMS#PBF-ND	Photoflash Capacitor Charger w/Auto Refresh*	10-MSOP	5.00	3.57	2.94
LT3468ES5#TRMPBFCT-ND	Photoflash Capacitance Charger*	SOT-23-5	4.59	4.10	3.69
LT3468ES5#TRMPBFTR-ND	Photoflash Capacitance Charger*	SOT-23-5	1175.00/500		
LT3484EDCB-0#TRMPBFCT-ND	Photoflash Capacitor Charger*	6-DFN	5.04	4.50	4.05
LT3484EDCB-2#TRMPBFCT-ND	Photoflash Capacitor Charger*	6-DFN	5.04	4.50	4.05
LT3750EMS#PBF-ND	Capacitor Charger Controller*	10-MSOP	7.00	5.00	4.12
LT3751EFE#PBF-ND	Capacitor Charger Controller* ***NEW!***	20-QFN	8.13	5.46	4.64
LT3751EUFD#PBF-ND	Capacitor Charger Controller*	20-QFN	7.75	5.54	4.56
LT4351CMS#PBF-ND	MOSFET Diode-OR Controller*	10-MSOP	5.00	3.32	2.70
LT4351IMS#PBF-ND	MOSFET Diode-OR Controller*	10-MSOP	5.75	3.82	3.10
LTC1473CGN#PBF-ND	Dual PowerPath™ Switch Driver*	16-SSOP	7.13	4.74	3.80
LTC1473LCGN#PBF-ND	Dual PowerPath™ Switch Driver*	16-SSOP	7.13	4.74	3.80

* *RoHS Compliant*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
LTC1479CG#PBF-ND	PowerPath Controller for Dual Battery Systems*	36-SSOP	15.00	9.96	7.75
LTC1479IG-ND	PowerPath™ Controller for Dual Battery Systems	36-SSOP	17.25	11.46	8.63
LTC1479IG#PBF-ND	PowerPath Controller for Dual Battery Systems*	36-SSOP	17.25	11.46	8.63
LTC1696ES6#TRMPBFCT-ND	Overvoltage Protection Controller*	SOT-23-6	4.00	3.58	3.22
LTC1696ES6#TRMPBFTR-ND	Overvoltage Protection Controller*	SOT-23-6	893.75/500		
LTC1921CMS8-ND	Dual -48V Supply and Fuse Monitor	8-MSOP	5.00	3.40	2.90
LTC1921CMS8#PBF-ND	Dual -48V Supply and Fuse Monitor*	8-MSOP	5.00	3.40	2.90
LTC1921IS8#PBF-ND	Dual -48V Supply and Fuse Monitor*	8-SOIC	6.63	4.40	3.80
LTC1966CMS8#PBF-ND	Precision Micropower RMS/DC Converter*	8-MSOP	5.88	3.91	3.60
LTC1968CMS8#PBF-ND	Precision Wide Bandwidth, RMS/DC Converter*	8-MSOP	7.90	5.25	4.80
LTC2920-1CS5#TRMCT-ND	Power Supply Margining Controller	SOT-23-5	3.02	2.70	2.43
LTC2920-1CS5#TRMPBFCT-ND	Power Supply Margining Controller*	SOT-23-5	3.02	2.70	2.43
LTC2920-2CMS8#PBF-ND	Dual, Power Supply Margining Controller*	8-MSOP	3.50	2.33	1.90
LTC2927CDDB#TRMPBFCT-ND	Single Power Supply Tracking Controller*	8-DFN	3.72	3.33	3.00
LTC2927IDDB#TRMPBFCT-ND	Single Power Supply Tracking Controller*	8-DFN	4.40	3.93	3.54
LTC2927ITS8#TRMPBFCT-ND	Single Power Supply Tracking Controller*	TSOT-23-8	4.40	3.93	3.54
LTC2970CUFD#PBF-ND	Dual I^{2}C Power Supply Monitor/Margining Ctrlr.*	24-QFN	7.98	5.70	4.69
LTC2970CUFD-1#PBF-ND	Dual I^{2}C Power Supply Monitor/Margining Ctrlr.*	24-QFN	7.98	5.70	4.69
LTC2978CUP#PBF-ND	Power Supply Monitor/Controller* ***NEW!***	64-QFN	23.28	15.64	13.30
LTC3731CUH#PBF-ND	3-Phase, Sync. Buck Switching Reg. Controller*	32-QFN	9.13	6.52	5.37
LTC4257CS8-ND	IEEE 802.3af PD PoE Interface Controller	8-SOIC	3.25	2.32	1.91
LTC4257CS8#PBF-ND	IEEE 802.3af PD PoE Interface Controller*	8-SOIC	3.25	2.32	1.91
LTC4257IS8#PBF-ND	Power Over Ethernet Interface Controller*	8-SOIC	3.75	2.68	2.21
LTC4259ACGW#PBF-ND	Quad IEEE 802.3af PoE Controller*	36-SSOP	14.25	9.50	8.15
LTC4263CDE#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-DFN	5.90	4.21	3.47
LTC4263IDE#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-DFN	7.08	5.05	4.16
LTC4263CS#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-SOIC	5.90	4.21	3.47
LTC4263IS#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-SOIC	7.08	5.05	4.16
LTC4264CDE#PBF-ND	HP PD Interface Ctrlr. with 750mA Current Limit*	12-DFN	3.60	2.57	2.12
LTC4265CDE#PBF-ND	High Power PD Interface Controller*	12-DFN	3.83	2.57	2.19
LTC4265IDE#PBF-ND	High Power PD Interface Controller*	12-DFN	4.58	3.07	2.61
LTC4266CGW#PBF-ND	Quad IEEE 802.3at PoE Controller* ***NEW!***	36-SSOP	14.78	9.93	8.44
LTC4266IGW#PBF-ND	Quad IEEE 802.3at PoE Controller* ***NEW!***	36-SSOP	17.73	11.91	10.13
LTC4266IUHF#PBF-ND	Quad IEEE 802.3at PoE Controller* ***NEW!***	38-QFN	17.73	11.91	10.13
LTC4267CDHC-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-DFN	4.38	2.92	2.50
LTC4267CGN-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	4.13	2.75	2.36
LTC4267IGN-1#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4267IGN-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4267IGN#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4268CDKD-1#PBF-ND	High Power PD Controller/Switching Regulator*	32-DFN	4.80	3.43	2.82
LTC4268IDKD-1#PBF-ND	High Power PD Controller/Switching Regulator*	32-DFN	5.75	4.11	3.39
LTC4269CDKD-1#PBF-ND	IEEE 802.3at PD w/Flyback Controller* ***NEW!***	32-DFN	5.10	3.43	2.91
LTC4269CDKD-2#PBF-ND	IEEE 802.3at PD/Sync. Forward Ctrlr.* ***NEW!***	32-DFN	5.53	3.71	3.16
LTC4269IDKD-1#PBF-ND	IEEE 802.3at PD w/Flyback Ctrlr.* ***NEW!***	32-DFN	6.13	4.11	3.50
LTC4274IUHF#PBF-ND	IEEE 802.3at PoE Controller* ***NEW!***	38-QFN	12.63	8.49	7.21
LTC4278CDKD#PBF-ND	IEEE 802.3at PD w/Flyback Controller* ***NEW!***	32-DFN	5.53	3.71	3.16
LTC4278IDKD#PBF-ND	IEEE 802.3at PD w/Flyback Controller* ***NEW!***	32-DFN	6.63	4.46	3.79
LTC4350CGN#PBF-ND	Hot Swappable Load Share Controller*	16-SSOP	8.75	5.83	4.65
LTC4350IGN#PBF-ND	Hot Swappable Load Share Controller*	16-SSOP	10.13	6.73	5.40
LTC4352CDD#PBF-ND	LV Ideal Diode Controller w/Monitoring*	12-DFN	5.33	3.57	3.04
LTC4352CMS#PBF-ND	LV Ideal Diode Controller w/Monitoring*	12-MSOP	5.33	3.57	3.04
LTC4352IDD#PBF-ND	LV Ideal Diode Controller w/Monitoring*	12-DFN	6.18	4.14	3.52
LTC4352IMS#PBF-ND	LV Ideal Diode Controller w/Monitoring*	12-MSOP	6.18	4.14	3.52
LTC4354CS8#PBF-ND	Negative Volt. Diode-OR Controller/Monitor*	8-SOIC	3.88	2.60	2.20
LTC4354IS8#PBF-ND	Negative Volt. Diode-OR Controller/Monitor*	8-SOIC	4.63	3.10	2.65
LTC4355CMS#PBF-ND	Positive High Volt. Ideal Diode-OR Ctrlr.* ***NEW!***	16-MSOP	5.30	3.55	2.95
LTC4355IMS#PBF-ND	Positive High Volt. Ideal Diode-OR Ctrlr.* ***NEW!***	16-MSOP	6.38	4.30	3.50
LTC4355IDE#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	14-DFN	6.00	4.30	3.50
LTC4355IS#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	16-SOIC	6.00	4.30	3.50
LTC4357CDCB#TRMPBFCT-ND	Positive High Voltage Ideal Diode-OR Controller*	6-DFN	3.92	3.50	3.15
LTC4357CDCB#TRMPBFTR-ND	Positive High Voltage Ideal Diode-OR Controller*	6-DFN	1000.00/500		
LTC4357CMS8#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	8-MSOP	3.40	2.43	2.00
LTC4357HDCB#TRMPBFCT-ND	Positive High Voltage Ideal Diode Ctrlr.* ***NEW!***	6-DFN	5.71	5.10	4.59
LTC4357HDCB#TRMPBFTR-ND	Positive High Voltage Ideal Diode Ctrlr.* ***NEW!***	6-DFN	1425.00/500		
LTC4357HMS8#PBF-ND	Positive High Voltage Ideal Diode Ctrlr.* ***NEW!***	8-MSOP	5.00	3.36	2.85
LTC4357IDCB#TRMPBFCT-ND	Positive High Voltage Ideal Diode-OR Controller*	6-DFN	4.68	4.18	3.76
LTC4357IMS8#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	8-MSOP	4.08	2.91	2.40
LTC4358CDE#PBF-ND	5A Ideal Diode*	14-DFN	4.48	3.00	2.55
LTC4358CFE#PBF-ND	5A Ideal Diode*	16-TSSOP	4.48	3.00	2.55
LTC4358IDE#PBF-ND	5A Ideal Diode*	14-DFN	5.35	3.60	3.06
LTC4358IFE#PBF-ND	5A Ideal Diode*	16-TSSOP	5.35	3.60	3.06
LTC4411ES5#TRMPBFCT-ND	2.6A Low Loss Ideal Diode*	TSOT-23-5	3.86	3.45	3.11
LTC4411ES5#TRMPBFTR-ND	2.6A Low Loss Ideal Diode*	TSOT-23-5	970.00/500		
LTC4412ES6#TRMPBFCT-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	3.16	2.83	2.55
LTC4412ES6#TRMPBFTR-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	795.00/500		
LTC4412IS6#TRMPBFCT-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	3.42	3.05	2.75
LTC4412IS6#TRMPBFTR-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	860.00/500		
LTC4413EDD#PBF-ND	2.6A Low Loss Dual Ideal Diode*	10-DFN	4.25	3.07	2.53
LTC4414EMS8#PBF-ND	Low Loss PowerPath™ Controller*	8-MSOP	3.70	2.64	2.18
LTC4416EMS#PBF-ND	Low Loss Dual PowerPath™ Controller*	10-MSOP	4.75	3.78	2.99
Charge Pump					
LT1026CN8#PBF-ND	Switched Capacitor Voltage Converter*	8-Dip	4.10	2.73	2.10
LT1026CS8#PBF-ND	Switched Capacitor Voltage Converter*	8-SOIC	4.50	2.99	2.30
LT1054CN8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-Dip	5.30	3.52	2.80
LT1054CSW#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	16-SOIC	6.30	4.19	3.25
LT1054CS8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-SOIC	6.00	3.99	3.00
LT1054IN8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-Dip	7.70	5.12	3.95
LT1054ISW#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	16-SOIC	9.30	6.18	4.85
LT1054IS8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-SOIC	9.00	5.98	4.65
LT1054LCS8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-SOIC	4.25	2.83	2.15
LT3465AES6#TRMCT-ND	2.4MHz White LED Step-Up Converter	SOT-23-6	3.36	3.00	2.70
LT3465AES6#TRMPBFCT-ND	2.4MHz White LED Step-Up Converter*	SOT-23-6	3.36	3.00	2.70
LT3465AES6#TRMPBFTR-ND	2.4MHz White LED Step-Up Converter*	SOT-23-6	850.00/500		
LT3465ES6#TRMPBFCT-ND	White LED Step-Up Converter*	SOT-23-6	3.36	3.00	2.70
LT3465ES6#TRMPBFTR-ND	White LED Step-Up Converter*	SOT-23-6	850.00/500		
LTC660CS8#PBF-ND	100mA, CMOS Switched Capacitor Converter*	8-SOIC	5.50	3.67	3.14
LTC1044CN8#PBF-ND	CMOS Switched-Capacitor Voltage Converter*	8-Dip	3.30	2.20	1.75
LTC1044CS8#PBF-ND	CMOS Switched-Capacitor Voltage Converter*	8-SOIC	4.50	2.99	2.35
LTC1046CN8#PBF-ND	50mA, CMOS Switched-Cap. Voltage Converter*	8-Dip	4.30	2.86	2.25
LTC1046CS8#PBF-ND	50mA, CMOS Switched-Cap. Voltage Converter*	8-SOIC	5.80	3.86	3.00
LTC1046IS8#PBF-ND	50mA, CMOS Switched-Cap. Voltage Converter*	8-SOIC	7.10	4.72	3.70
LTC1144CN8#PBF-ND	Switched-Cap. Volt. Converter with Shutdown*	8-Dip	4.90	3.26	2.50
LTC1144CS8#PBF-ND	Switched-Cap. Volt. Converter with Shutdown*	8-SOIC	4.90	3.26	2.55
LTC1144IS8#PBF-ND	Switched-Cap. Volt. Converter with Shutdown*	8-SOIC	5.70	3.79	2.95
LTC1261CS-ND	Adj., Switched-Capacitor Voltage Inverter	14-SOIC	4.50	3.00	2.60
LTC1261CS#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	14-SOIC	4.50	3.00	2.60
LTC1261CS8-4#PBF-ND	4V, Switched-Capacitor Voltage Inverter*	8-SOIC	3.75	2.49	1.90

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
LTC1261LCMS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	8-MSOP	4.00	2.66	2.00
LTC1261LCS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	8-SOIC	3.63	2.41	1.82
LTC1262CN8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-Dip	4.50	3.00	2.45
LTC1262CS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-SOIC	4.63	3.08	2.32
LTC1262IS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-SOIC	5.75	3.82	2.88
LTC1503CS8-1.8-ND	1.8V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1503CS8-1.8#PBF-ND	1.8V Inductorless Step-Down DC/DC Converter*	8-SOIC	3.63	2.41	1.82
LTC1503CS8-2-ND	2V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1514CS8-3.3-ND	3.3V, Step-Up/Down Switch DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5#PBF-ND	5V, Step-Up/Down Switch DC/DC Converter*	8-SOIC	6.50	4.35	3.70
LTC1515IS8#PBF-ND	Step-Up/Down Switch DC/DC Converter*	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3/5-ND	3V/5V, Step-Up/Down Switch DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1516CS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	6.25	4.15	3.55
LTC1516CS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter*	8-SOIC	6.25	4.15	3.55
LTC1517CS5-5#TRMCT-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.42	3.95	3.56
LTC1517CS5-5#TRMPBFCT-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	4.42	3.95	3.56
LTC1517CS5-5#TRMPBFTR-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	1105.00/500		
LTC1517ES5-3.3#TRMCT-ND	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-3.3#TRMPBFCT-ND	Regulated 3.3V Charge Pump DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMCT-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMPBFCT-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMPBFTR-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	1075.00/500		
LTC1522CMS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter*	8-MSOP	3.75	2.50	2.15
LTC1550CGN-ND	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	5.25	3.49	2.80
LTC1550LCS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1682CS8-5-ND	5V, Doubler Charge Pump with Linear Regulator	8-SOIC	3.50	2.33	1.80
LTC1682CS8-5#PBF-ND	5V, Doubler Charge Pump with Linear Regulator*	8-SOIC	3.50	2.33	1.80
LTC1682IS8-5#PBF-ND	5V, Doubler Charge Pump with Linear Regulator*	8-SOIC	4.13	2.74	2.15
LTC1751EMS8#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3-ND	MPU Regulated Charge Pump DC/DC Converter	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-5#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1754ES6-5#TRMPBFCT-ND	MPU Regulated Charge Pump with Shutdown*	SOT-23-6	3.44	3.08	2.77
LTC1754ES6-5#TRMPBFTR-ND	MPU Regulated Charge Pump with Shutdown*	SOT-23-6	775.00/500		
LTC1911EMS8-1.5-ND	1.5V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8-ND	1.8V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8#PBF-ND	1.8V Low Noise Step-Down DC/DC Converter*	8-MSOP	4.80	3.19	2.40
LTC1983ES6-3#TRMPBFCT-ND	3V, 100mA Regulated Charge Pump Inverter*	SOT-23-6	4.26	3.80	3.42
LTC1983ES6-3#TRMPBFTR-ND	3V, 100mA Regulated Charge Pump Inverter*	SOT-23-6	950.00/500		
LTC1983ES6-5#TRMPBFCT-ND	5V, 100mA, Regulated Charge Pump Inverter*	SOT-23-6	4.26	3.80	3.42
LTC1983ES6-5#TRMPBFTR-ND	5V, 100mA, Regulated Charge Pump Inverter*	SOT-23-6	950.00/500		
LTC3200ES6-5#TRMPBFCT-ND	Regulated Charge Pump DC/DC Converter*	TSOT-23-6	3.75	3.35	3.02
LTC3200ES6-5#TRMPBFTR-ND	Regulated Charge Pump DC/DC Converter*	TSOT-23-6	910.00/500		
LTC3202EDD-ND	Low Noise, High Efficiency Charge Pump	10-DFN	4.10	2.93	2.41
LTC3202EDD#PBF-ND	Low Noise, High Efficiency Charge Pump*	10-DFN	4.10	2.93	2.41
LTC3204BEDC-3.3#TRMPBFCT-ND	3.3V, Low Noise Regulated Charge Pump*	6-DFN	3.70	3.30	2.97
LTC3204BEDC-3.3#TRMPBFTR-ND	3.3V, Low Noise Regulated Charge Pump*	6-DFN	855.00/500		
LTC3204BEDC-5#TRMPBFCT-ND	5V, Low Noise Regulated Charge Pump*	6-DFN	3.70	3.30	2.97
LTC3204BEDC-5#TRMPBFTR-ND	5V, Low Noise Regulated Charge Pump*	6-DFN	855.00/500		
LTC3214EDD#PBF-ND	500mA Camera LED Charge Pump*	10-DFN	3.30	2.36	1.94
LTC3215EDD#PBF-ND	700mA Low Noise High Curr. LED Charge Pump*	10-DFN	3.50	2.50	2.06
LTC3240EDC-2.5#TRMPBFCT-ND	2.5V Step-Up/Step-Down DC/DC Converter*	6-DFN	3.70	3.30	2.97
LTC3240EDC-2.5#TRMPBFTR-ND	2.5V Step-Up/Step-Down DC/DC Converter*	6-DFN	970.00/500		
LTC3240EDC-3.3#TRMPBFCT-ND	3.3V Step-Up/Step-Down DC/DC Converter*	6-DFN	3.70	3.30	2.97
LTC3240EDC-3.3#TRMPBFTR-ND	3.3V Step-Up/Step-Down DC/DC Converter*	6-DFN	970.00/500		
LTC3250ES6-1.5#TRMCT-ND	1.5V, Inductorless Step-Down DC/DC Converter	SOT-23-6	3.44	3.08	2.77
LTC3250ES6-1.5#TRMPBFCT-ND	1.5V, Inductorless Step-Down DC/DC Converter*	SOT-23-6	3.44	3.08	2.77
LTC3251EMSE#PBF-ND	Inductorless Step-Down DC/DC Converter*	10-MSOP	3.90	2.79	2.29
CPU Core Power					
LTC1705EGN-ND	Dual 5-Bit, Sync. Switching Regulator Controller	28-SSOP	11.25	7.47	5.63
LTC1706EMS-85-ND	VID Voltage Programmer for Intel VRM 8.5	10-MSOP	4.25	2.83	2.15
LTC1709EG-7-ND	5-Bit, 2-Phase Sync. Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.00
LTC1709EG-7#PBF-ND	5-Bit, 2-Phase Sync. Step-Down Switching Reg.*	36-SSOP	9.75	6.48	5.00
LTC1709EG-8#PBF-ND	5-Bit, 2-Phase Sync. Step-Down Switching Reg.*	36-SSOP	9.75	6.48	5.00
LTC1709EG-85-ND	5-Bit, 2-Phase Sync. Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.00
LTC1753CG#PBF-ND	5-Bit, Programmable Sync. Ctrlr. for Pentium II*	20-SSOP	6.50	4.32	3.25
LTC3703EG#PBF-ND	Step-Down DC/DC Regulator Controller*	28-SSOP	7.00	4.65	3.62
LTC3703EGN#PBF-ND	100V Sync. Switching Regulator Controller*	16-SSOP	6.38	4.24	3.30
LTC3714EG#PBF-ND	Intel Compatible Step-Down Controller*	28-SSOP	6.50	4.32	3.25
LTC3720EGN#PBF-ND	1-Phase VRM8.5 Current Mode Step-Down Ctrlr.*	28-SSOP	6.50	4.64	3.82
LTC3733CG-ND	3-Phase, Buck Controller for AMD CPUs	36-SSOP	8.75	6.25	5.15
LTC3733CG#PBF-ND	3-Phase, Buck Controller for AMD CPUs*	36-SSOP	8.75	6.25	5.15
LED Drivers					
LT3474EFE#PBF-ND	1A Step-Down LED Driver*	16-TSSOP	5.90	4.21	3.47
LT3475EFE#PBF-ND	1.5A Dual Step-Down LED Driver*	20-TSSOP	7.00	5.00	4.12
LT3476EUHF#PBF-ND	High Current Quad LED Driver*	38-QFN	9.50	6.63	5.46
LT3477EFE#PBF-ND	3A DC/DC Converter w/Dual R/R Current Sense*	20-TSSOP	6.60	4.71	3.88
LT3477EUF#PBF-ND	3A DC/DC Converter w/Dual R/R Current Sense*	20-QFN	6.30	4.50	3.71
LT3478IFE#PBF-ND	4.5A Mono LED Driver with True Color PWM*	16-TSSOP	8.65	6.17	5.08
LT3478IFE-1#PBF-ND	4.5A Mono LED Driver with True Color PWM*	16-TSSOP	8.65	6.17	5.08
LT3486EFE#PBF-ND	1.3A Dual White LED Step-Up Converter*	16-TSSOP	5.20	3.71	3.06
LTC3490EDD#PBF-ND	350mA Single Cell LED Driver*	8-DFN	4.20	3.00	2.47
LTC3490ES8#PBF-ND	350mA Single Cell LED Driver*	8-SOIC	4.20	3.00	2.47
LT3491EDC#TRMPBFCT-ND	White LED Driver*	6-DFN	3.02	2.70	2.43
LT3491EDC#TRMPBFTR-ND	White LED Driver*	6-DFN	735.00/500		
LT3492EFE#PBF-ND	Triple Output LED Driver* ***NEW!***	28-TSSOP	8.18	5.50	4.68
LT3492EUFD#PBF-ND	Triple Output LED Driver* ***NEW!***	28-QFN	7.88	5.29	4.49
LT3496EFE#PBF-ND	Triple Output LED Driver*	28-TSSOP	7.38	5.22	4.43
LT3496IFE#PBF-ND	Triple Output LED Driver*	28-TSSOP	8.70	6.22	5.28
LT3496IUFD#PBF-ND	Triple Output LED Driver*	28-QFN	8.40	6.00	4.94
LT3497EDDB#TRMPBFCT-ND	Dual White LED Driver*	10-DFN	3.92	3.50	3.15
LT3497EDDB#TRMPBFTR-ND	Dual White LED Driver*	10-DFN	1000.00/500		
LT3498EDDB#TRMPBFCT-ND	20mA LED Driver and OLED Driver*	12-DFN	4.48	4.00	3.60
LT3498EDDB#TRMPBFTR-ND	20mA LED Driver and OLED Driver*	12-DFN	1145.00/500		
LT3517IFE#PBF-ND	1.5A Switch Current LED Driver*	16-TSSOP	7.28	4.89	4.15
LT3518EUF#PBF-ND	2.3A Switch Current LED Driver*	16-QFN	5.90	4.21	3.47
LT3518IUF#PBF-ND	2.3A Switch Current LED Driver*	16-QFN	7.08	5.06	4.17
DC1160A-ND	Evaluation Board for LT3518* ***NEW!***	—	100.00	—	—
LT3519EMS#PBF-ND	LED Driver w/Integrated Schottky Diode* ***NEW!***	16-MSOP	5.33	3.57	3.04
LT3519EMS-1#PBF-ND	LED Driver w/Integrated Schottky Diode* ***NEW!***	16-MSOP	5.33	3.57	3.04
LT3519EMS-2#PBF-ND	LED Driver w/Integrated Schottky Diode* ***NEW!***	16-MSOP	5.33	3.57	3.04
LT3590ESC8#TRMPBFCT-ND	48V Buck Mode LED Driver*	SC70-8	3.25	2.90	2.61
LT3590ESC8#TRMPBFTR-ND	48V Buck Mode LED Driver*	SC70-8	825.00/500		
LT3591EDDB#TRMPBFCT-ND	White LED Driver with Integrated Schottky*	8-DFN	3.25	2.90	2.61
LT3591EDDB#TRMPBFTR-ND	White LED Driver with Integrated Schottky*	8-DFN	825.00/500		
LT3592EDDB#TRMPBFCT-ND	500mA Step Down LED Driver*	10-DFN	4.03	3.60	3.24
LT3592EDDB#TRMPBFTR-ND	500mA Step Down LED Driver*	10-DFN	1000.00/500		

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT3592EMSE#PBF-ND	500mA Step Down LED Driver*	10-MSOP	3.73	2.50	2.13
DC1205A-ND	Evaluation Board for LT3592* ***NEW!***	—	75.00	—	—
LT3593ES6#TRMPBFCT-ND	1MHz White LED Driver*	TSOT-23-6	3.44	3.08	2.77
LT3593ES6#TRMPBFTR-ND	1MHz White LED Driver*	TSOT-23-6	850.00/500		
LT3595EUHH#PBF-ND	16-Channel Buck Mode LED Driver*	56-QFN	14.25	9.93	8.17
LT3598EUF#PBF-ND	6-String 30mA LED Driver*	24-QFN	6.28	4.22	3.58
LT3598IUF#PBF-ND	6-String 30mA LED Driver*	24-QFN	7.20	4.84	4.12
LT3599EFE#PBF-ND	4-Channel, 120mA LED Driver*	28-TSSOP	7.13	4.79	4.07
LT3743EFE#PBF-ND	High Current Step Down LED Driver* ***NEW!***	28-TSSOP	10.53	7.07	6.01
LT3743EUFD#PBF-ND	High Current Step Down LED Driver* ***NEW!***	28-QFN	10.20	6.86	5.83
LT3743IFE#PBF-ND	High Pwr. Constant Current LED Driver* ***NEW!***	28-TSSOP	12.38	8.31	7.07
LT3743IUFD#PBF-ND	High Pwr. Constant Current LED Driver* ***NEW!***	28-QFN	12.00	8.07	6.86
LT3755EMSE#PBF-ND	100kHz ~ 1MHz LED Controller*	16-MSOP	6.05	4.07	3.46
LT3755EMSE-2#PBF-ND	100kHz ~ 1MHz LED Controller* ***NEW!***	16-MSOP	6.05	4.07	3.46
LT3755EUD#PBF-ND	100kHz ~ 1MHz LED Controller*	16-QFN	5.85	3.93	3.34
LT3755EUD-2#PBF-ND	100kHz ~ 1MHz LED Controller* ***NEW!***	16-QFN	5.85	3.93	3.34
LT3756EMSE#PBF-ND	100kHz ~ 1MHz LED Controller*	16-MSOP	6.38	4.29	3.64
LT3756EMSE-2#PBF-ND	100kHz ~ 1MHz LED Controller* ***NEW!***	16-MSOP	6.38	4.29	3.64
LT3756EMSE-1#PBF-ND	100kHz ~ 1MHz LED Controller*	16-MSOP	6.38	4.29	3.64
DC1319A-B-ND	Evaluation Board for LT3756-1* ***NEW!***	—	212.50	—	—
DC1319B-A-ND	Evaluation Board for LT3756* ***NEW!***	—	212.50	—	—
LT3756EUD#PBF-ND	100kHz ~ 1MHz LED Controller*	16-QFN	6.18	4.14	3.52
LT3756EUD-1#PBF-ND	100kHz ~ 1MHz LED Controller*	16-QFN	6.18	4.14	3.52
LT3758EDD#PBF-ND	100kHz ~ 1MHz LED Controller* ***NEW!***	10-DFN	5.00	3.36	2.85
LT3760EFE#PBF-ND	White/Color Backlight LED Driver* ***NEW!***	28-TSSOP	9.03	6.07	5.16
LTC3219EUD#PBF-ND	250mA Universal LED Driver*	20-QFN	3.60	2.57	2.12
LTC3220EPF#PBF-ND	360mA Universal 18-Ch. LED Driver*	28-UTQFN	5.00	3.36	2.85
LTC3230EUD#PBF-ND	5-LED Display Driver with Dual LDO*	20-QFN	3.10	2.21	1.82
LTC3783EFE#PBF-ND	PWM LED Drvr/Boost Flyback/SEPIC Controller*	16-TSSOP	5.85	4.07	3.35
Battery Chargers					
LT1505CG-1#PBF-ND	Constant-Current/Volt age Battery Charger*	28-SSOP	9.38	6.23	4.90
LT1510-5CGN#PBF-ND	500kHz, 1.5A Constant Volt./Curr. Batt. Charger*	16-SSOP	8.13	5.40	4.35
LT1510CGN#PBF-ND	200kHz, 1.5A Constant Volt./Curr. Batt. Charger*	16-SSOP	8.13	5.40	4.35
LT1510CS#PBF-ND	200kHz, 1.5A Constant Volt./Curr. Batt. Charger*	16-SOIC	7.88	5.23	4.20
LT1510CS8#PBF-ND	200kHz, 1.5A Constant Volt./Curr. Batt. Charger*	8-SOIC	6.00	3.99	3.20
LT1510IS#PBF-ND	200kHz, 1.5A Constant Volt./Curr. Batt. Charger*	16-SOIC	9.00	5.98	4.80
LT1511CSW#PBF-ND	3A Constant Current/Voltage Battery Charger*	24-SOIC	13.00	8.64	6.95
LT1511ISW-ND	3A Constant Current/Voltage Battery Charger	24-SOIC	15.00	10.00	8.60
LT1512CGN-ND	1.5A, SEPIC Constant Current/Volt. Batt. Charger	16-SSOP	8.00	5.32	4.60
LT1512CN8#PBF-ND	1.5A, SEPIC Constant Current/Volt. Batt. Charger*	8-Dip	6.75	4.50	3.85
LT1512CS8#PBF-ND	1.5A, SEPIC Constant Current/Volt. Batt. Charger*	8-SOIC	7.00	4.65	4.00
LT1513-2CR#PBF-ND	SEPIC Constant or Programmable Batt. Charger*	7-DD	9.38	6.23	4.70
LT1513-2CT7#PBF-ND	SEPIC Constant or Programmable Batt. Charger*	TO-220-7	9.00	5.98	4.55
LT1513CR#PBF-ND	SEPIC Constant or Programmable Batt. Charger*	7-DD	9.38	6.23	4.70
LT1513IR#PBF-ND	SEPIC Constant or Programmable Batt. Charger*	7-DD	10.25	6.81	5.20
LT1571EGN-5#PBF-ND	Constant-Current/Voltage Battery Charger*	16-SSOP	8.00	5.32	4.20
LT1769CGN-ND	Constant-Current/Voltage 2A Battery Charger	28-SSOP	10.13	6.73	5.10
LT1769CGN#PBF-ND	Constant-Current/Voltage 2A Battery Charger*	28-SSOP	10.13	6.73	5.10
LT1769IFE-ND	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	11.50	7.64	5.75
LT3650EDD-4.1#PBF-ND	2A Mono Single-Cell Li-Ion Batt. Charger* ***NEW!***	12-DFN	5.95	4.00	3.40
LT3650EDD-4.2#PBF-ND	2A Mono Single-Cell Li-Ion Batt. Charger* ***NEW!***	12-DFN	5.95	4.00	3.40
LT3650EDD-8.2#PBF-ND	2A Mono 2-Cell Li-Ion Battery Charger*	12-DFN	5.95	4.00	3.40
LT3650EDD-8.4#PBF-ND	2A Mono 2-Cell Li-Ion Battery Charger* ***NEW!***	12-DFN	5.95	4.00	3.40
LT3650EMSE-4.1#PBF-ND	2A Mono Single-Cell Li-Ion Batt. Charger* ***NEW!***	12-MSOP	5.95	4.00	3.40
LT3650EMSE-4.2#PBF-ND	2A Mono Single-Cell Li-Ion Batt. Charger* ***NEW!***	12-MSOP	5.95	4.00	3.40
LT3650EMSE-8.2#PBF-ND	2A Mono 2-Cell Li-Ion Battery Charger* ***NEW!***	12-MSOP	5.95	4.00	3.40
LT3650EMSE-8.4#PBF-ND	2A Mono 2-Cell Li-Ion Battery Charger* ***NEW!***	12-MSOP	5.95	4.00	3.40
LT3650IDD-4.1#PBF-ND	2A Mono Single-Cell Li-Ion Batt. Charger* ***NEW!***	12-DFN	6.85	4.60	3.91
LT3652EDD#PBF-ND	2A Battery Charger for Solar Power* ***NEW!***	12-DFN	6.50	4.36	3.70
LT3652EMSE#PBF-ND	2A Battery Charger for Solar Power* ***NEW!***	12-MSOP	6.50	4.36	3.70
LTC1325CSW-ND	Battery Management System	18-SOIC	13.75	9.15	7.35
LTC1325CSW#PBF-ND	Battery Management System*	18-SOIC	13.75	9.15	7.35
LTC1558CGN-3.3-ND	3.3V, Backup Batt. Controller with Progr. Output	16-SSOP	5.25	3.49	2.80
LTC1558CGN-5-ND	5V, Backup Batt. Controller with Progr. Output	16-SSOP	5.25	3.49	2.80
LTC1558CS-5-ND	5V, Backup Batt. Controller with Progr. Output	16-SOIC	5.00	3.32	2.65
LTC1558CS8-3.3-ND	3.3V, Backup Batt. Controller with Progr. Output	8-SOIC	4.75	3.16	2.55
LTC1559CGN-3.3-ND	3.3V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CGN-5-ND	5V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CS8-5-ND	5V, Backup Battery Controller with Fixed Output	8-SOIC	4.75	3.16	2.55
LTC1730ES8-4.2#PBF-ND	4.2V Li-Ion Battery Pulse Charger*	8-SOIC	3.88	2.58	1.94
LTC1731EMS8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.2#PBF-ND	8.2V Li-Ion Linear Battery Charger Controller*	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4-ND	8.4V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller*	8-MSOP	3.63	2.41	1.90
LTC1731ES8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller*	8-SOIC	3.25	2.16	1.65
LTC1732EMS-8.4-ND	Li-Ion Linear Battery Charger Controller	10-MSOP	4.63	3.08	2.32
LTC1732EMS-8.4#PBF-ND	Li-Ion Linear Battery Charger Controller*	10-MSOP	4.63	3.08	2.32
LTC1733EMSE#PBF-ND	Mono Linear Lithium-Ion Battery Charger*	10-MSOP	3.63	2.41	1.89
LTC1734ES6-4.2#TRMPBFCT-ND	4.2V Li-Ion Linear Battery Charger Controller*	SOT-23-6	3.33	2.98	2.68
LTC1734ES6-4.2#TRMPBFTR-ND	4.2V Li-Ion Linear Battery Charger Controller*	SOT-23-6	743.75/500		
LTC1734LES6-4.2#TRMCT-ND	4.2V Li-Ion Linear Battery Charger Controller	SOT-23	3.30	2.95	2.66
LTC1734LES6-4.2#TRMPBFCT-ND	4.2V Li-Ion Linear Battery Charger Controller*	SOT-23	3.30	2.95	2.66
LTC1734LES6-4.2#TRMPBFTR-ND	4.2V Li-Ion Linear Battery Charger Controller*	SOT-23	840.00/500		
LTC1759CG#PBF-ND	Smart Battery Charger*	36-SSOP	11.50	7.64	5.75
LTC1760CFW#PBF-ND	Dual Smart Battery System Manager*	48-TSSOP	15.90	11.36	9.35
LTC1960CG#PBF-ND	Dual Battery Charger/Selector with SPI Interface*	36-SSOP	14.75	9.80	7.38
LTC2941CDCB#TRMPBFCT-ND	Battery Gas Gauge with I^2C Interface* ***NEW!***	6-DFN	3.22	2.88	2.59
LTC2941CDCB#TRMPBFTR-ND	Battery Gas Gauge with I^2C Interface* ***NEW!***	6-DFN	815.00/500		
LTC2942CDCB#TRMPBFCT-ND	Li-Ion Battery Gas Gauge* ***NEW!***	6-DFN	3.70	3.30	2.97
LTC2942CDCB#TRMPBFTR-ND	Li-Ion Battery Gas Gauge* ***NEW!***	6-DFN	935.00/500		
LTC3225EDDB#TRMPBFCT-ND	150mA Supercapacitor Charger*	10-DFN	4.87	4.35	3.92
LTC3225EDDB#TRMPBFTR-ND	150mA Supercapacitor Charger*	10-DFN	1175.00/500		
LTC3225EDDB-1#TRMPBFCT-ND	150mA Supercapacitor Charger* ***NEW!***	10-DFN	4.87	4.35	3.92
LTC3225EDDB-1#TRMPBFTR-ND	150mA Supercapacitor Charger* ***NEW!***	10-DFN	1215.00/500		
LTC3553EPD#PBF-ND	Micropower USB Power Manager* ***NEW!***	20-UTQFN	4.75	3.22	2.73
LTC3554EPD#PBF-ND	Micropower USB Power Manager* ***NEW!***	20-UTQFN	5.00	3.36	2.85
LTC3555EUFD#PBF-ND	Highly Integrated Power Management*	28-QFN	9.25	6.64	5.47
LTC3556EUFD#PBF-ND	USB Power Manager*	28-QFN	10.20	6.86	5.65
LTC3557EUF#PBF-ND	USB Power Manager with Li-Ion Charger*	28-QFN	7.90	5.64	4.65
LTC3559EUD#PBF-ND	Linear USB Battery Charger*	16-QFN	4.30	3.07	2.53
LTC3566EUF#PBF-ND	USB Power Manager / 1A Buck-Boost Converter*	24-QFN	8.18	5.50	4.53
LTC3576EUFE#PBF-ND	Pwr Manager USB On-the-Go Step-Down DC/DC*	38-QFN	10.20	6.86	5.83
LTC3576EUFE-1#PBF-ND	Pwr Manager USB On-the-Go Step-Down DC/DC*	38-QFN	10.20	6.86	5.83
LTC3577EUFF#PBF-ND	Power Management and Battery Charger* ***NEW!***	44-QFN	10.50	7.07	6.01
LTC3577EUFF-1#PBF-ND	Power Management and Battery Charger* ***NEW!***	44-QFN	10.50	7.07	6.01
LTC3577EUFF-3#PBF-ND	Power Management and Battery Charger* ***NEW!***	44-QFN	10.50	7.07	6.01
LTC4001EUF#PBF-ND	2A Synchronous Buck Li-Ion Charger*	16-QFN	4.40	3.14	2.59
LTC4002EDD-4.2#PBF-ND	Standalone Li-Ion Switch Mode Charger*	10-DFN	3.75	2.49	2.02
LTC4006EGN-2#PBF-ND	4A, High Efficiency, Standalone Li-Ion Charger*	16-SSOP	7.13	5.09	4.19
LTC4007EGN#PBF-ND	4A, High Efficiency, Standalone Li-Ion Charger*	24-SSOP	7.63	5.45	4.49
LTC4008EGN#PBF-ND	4A, High Eff., Multi-Chemistry Battery Charger*	20-SSOP	7.38	5.27	4.34
LTC4008EGN-1#PBF-ND	4A, High Eff., Multi-Chemistry Battery Charger*	20-SSOP	7.38	5.27	4.34
LTC4009CUF#PBF-ND	High Efficiency Multi-Chemistry Batt. Charger*	20-QFN	6.28	4.22	3.58
LTC4009CUF-1#PBF-ND	High Efficiency Multi-Chemistry Batt. Charger*	20-QFN	6.48	4.36	3.70
LTC4009CUF-2#PBF-ND	High Efficiency Multi-Chemistry Batt. Charger*	20-QFN	6.48	4.36	3.70
LTC4011CFE#PBF-ND	High Eff. Standalone Nickel Battery Charger*	20-TSSOP	10.00	6.64	5.41
LTC4012CUF#PBF-ND	High Eff. Multi-Chemistry Battery Charger* ***NEW!***	20-QFN	6.70	4.50	3.83
LTC4052EMS8E-4.2-ND	Lithium-Ion Batt. Pulse Charger w/ Over-Current	8-MSOP	3.75	2.68	2.21
LTC4052EMS8E-4.2#PBF-ND	Lithium-Ion Batt. Pulse Charger w/ Over-Current*	8-MSOP	3.75	2.68	2.21
LTC4053EMSE-4.2#PBF-ND	USB Lithium-Ion Battery Charger*	10-MSOP	3.75	2.68	2.21
LTC4054LES5-4.2#TRMPBFCT-ND	Standalone Linear Li-Ion Battery Charger*	TSOT23-5	3.58	3.20	2.88
LTC4054LES5-4.2#TRMPBFTR-ND	Standalone Linear Li-Ion Battery Charger*	TSOT23-5	910.00/500		
LTC4054LES5-4.2#TRPBFCT-ND	Standalone Linear Li-Ion Battery Charger*	TSOT23-5	3.47	3.10	2.79
LTC4054LES5-4.2#TRPBFTR-ND	Standalone Linear Li-Ion Battery Charger*	TSOT23-5	4549.99/2,500		
LTC4055EUF#PBF-ND	USB Pwr. Manager/Li-Ion Battery Charger* ***NEW!***	16-QFN	4.38	3.13	2.57
LTC4060EFE#PBF-ND	Standalone Linear NiMH/NiCd Battery Charger*	16-TSSOP	7.38	4.90	3.94
LTC4062EDD#PBF-ND	Standalone Linear Li-Ion Battery Charger*	10-DFN	3.88	2.58	2.08
LTC4065AEDC#TRMPBFCT-ND	Standalone 750mA Li-Ion Battery Charger*	6-DFN	2.77	2.48	2.23
LTC4065AEDC#TRMPBFTR-ND	Standalone 750mA Li-Ion Battery Charger*	6-DFN	655.00/500		
LTC4065EDC#TRMPBFCT-ND	Standalone 750mA Li-Ion Battery Charger*	6-DFN	2.77	2.48	2.23
LTC4065EDC#TRMPBFTR-ND	Standalone 750mA Li-Ion Battery Charger*	6-DFN	655.00/500		
LTC4068EDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger*	8-DFN	3.38	2.41	1.99
LTC4068XEDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger*	8-DFN	3.38	2.41	1.99
LTC4070EDDB#TRMPBFCT-ND	Li-Ion/Polymer Shunt Battery Charger* ***NEW!***	8-DFN	5.01	4.48	4.03
LTC4070EDDB#TRMPBFTR-ND	Li-Ion/Polymer Shunt Battery Charger* ***NEW!***	8-DFN	1250.00/500		
LTC4070EMS8E#PBF-ND	Li-Ion/Polymer Shunt Battery Charger* ***NEW!***	8-MSOP	4.25	2.86	2.43
LTC4075EDD#PBF-ND	Dual In USB/AC Adapter Li-Ion Battery Charger*	10-DFN	3.75	2.67	2.21
LTC4076EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger*	10-DFN	3.75	2.67	2.21
LTC4077EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger*	10-DFN	3.75	2.67	2.21
LTC4080EMSE#PBF-ND	500mA Standalone Li-Ion Battery Charger*	10-MSOP	3.80	2.71	2.24
LTC4081EDD#PBF-ND	500mA Li-Ion Charger*	10-DFN	3.80	2.71	2.24
LTC4085EDE#PBF-ND	USB Power Manager with Ideal Diode Controller*	14-DFN	3.30	2.36	1.94
LTC4088EDE#PBF-ND	High Eff. Battery Charger/USB Power Manager*	14-DFN	4.40	3.14	2.59
LTC4089EDJC#PBF-ND	USB Power Manager*	22-DFN	5.90	4.21	3.47
LTC4090EDJC#PBF-ND	USB Power Manager*	22-DFN	6.50	4.64	3.82
LTC4095EDC#TRMPBFCT-ND	Standalone USB Li-Ion/Polymer Battery Charger*	8-DFN	2.91	2.60	2.34
LTC4095EDC#TRMPBFTR-ND	Standalone USB Li-Ion/Polymer Battery Charger*	8-DFN	670.00/500		
LTC4097EDDB#TRMPBFCT-ND	USB/Wall Adapter Battery Charger*	12-DFN	3.61	3.23	2.91
LTC4098EPDC#PBF-ND	USB Power Manager/Battery Charger*	20-UTQFN	5.33	3.57	3.04
LTC4099EUDC#PBF-ND	I^2C Controlled USB Pwr Manager/Charger* ***NEW!***	20-QFN	6.00	4.99	3.40
LTC4100EG#PBF-ND	Smart Battery Charger Controller*	24-SSOP	10.63	7.06	5.32
LTC4110EUHF#PBF-ND	Battery Backup System Manager*	38-QFN	19.65	13.22	11.23
LTC4150CMS#PBF-ND	Coulomb Counter/Battery Gas Gauge*	10-MSOP	3.00	2.00	1.70
LTC4160EPDC#PBF-ND	Switching Power Manager* ***NEW!***	20-UTQFN	6.05	4.07	3.46
NEW! Current Sources — RoHS Compliant NEW!					
LT3092EDD#PBF-ND	200mA Programmable Current Source	8-DFN	3.50	2.36	2.00
LT3092EST#PBF-ND	200mA Programmable Current Source	SOT-223	3.73	2.50	2.13
LT3092ETS8#TRMPBFCT-ND	200mA Programmable Current Source	TSOT-23-8	4.03	3.60	3.24
LT3092ETS8#TRMPBFTR-ND	200mA Programmable Current Source	TSOT-23-8	1000.00/500		
Hot Swap					
LT1640AHCN8-ND	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640ALCS8#PBF-ND	Negative Voltage Hot Swap Controller*	8-SOIC	4.00	2.66	2.10
LT1640LCS8#PBF-ND	Negative Voltage Hot Swap Controller*	8-SOIC	4.00	2.66	2.10
LT1640LIS8-ND	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1640LIS8#PBF-ND	Negative Volt. Hot Swap Controller, Ind. Temp.*	8-SOIC	4.50	2.99	2.35
LT1641-1CS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	5.00	3.32	2.50
LT1641-1IS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	5.50	3.66	2.75
LT1641-2CS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	5.00	3.32	2.50
LT4220CGN#PBF-ND	Dual Supply Hot Swap Controller*	16-SSOP	7.00	5.00	4.12
LT4250HCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250HCS8-ND	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250HCS8#PBF-ND	Negative 48V Hot Swap Controller*	8-SOIC	4.88	3.24	2.55
LT4250LCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250LCN8#PBF-ND	Negative 48V Hot Swap Controller*	8-Dip	4.75	3.16	2.50
LT4250LCS8#PBF-ND	Negative 48V Hot Swap Controller*	8-SOIC	4.88	3.24	2.55
LT4254CGN-ND	Positive High Voltage Hot Swap Controller	16-SSOP	3.88	2.58	2.10
LT4254CGN#PBF-ND	Positive High Voltage Hot Swap Controller*	16-SSOP	3.88	2.58	2.10
LT4256-1CS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	3.50	2.50	2.06
LT4256-1IS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	4.00	2.86	2.35
LT4256-2CS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	3.50	2.50	2.06
LT4256-2IS8#PBF-ND	Positive High Voltage Hot Swap Controller*	8-SOIC	4.00	2.86	2.35
LT4256-3IGN#PBF-ND	Positive High Voltage Hot Swap Controller*	16-SSOP	4.88	3.48	2.87
LTC1421CSW-2.5-ND	2.5V Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1422CN8-ND	8-Pin Hot Swap Controller	8-Dip	5.13	3.41	2.65
LTC1422CS8#PBF-ND	8-Pin Hot Swap Controller*	8-SOIC	5.25	3.50	2.95
LTC1422IS8#PBF-ND	8-Pin Hot Swap Controller*	8-SOIC	6.00	4.00	3.40
LTC1642CGN#PBF-ND	Adjustable Hot Swap Controller*	16-SSOP	7.25	4.82	3.70
LTC1643ALCGN#PBF-ND	PCI-Bus Hot Swap Controller*	16-SSOP	8.75	5.81	4.55
LTC1644CGN#PBF-ND	CompactPCI-Bus Hot Swap Controller*	20-SSOP	7.38	4.90	3.95
LTC1645CS#PBF-ND	2-Ch. Hot Swap Cont./Power Sequencer*	14-SOIC	6.88	4.57	3.55
LTC1645CS8#PBF-ND	2-Ch. Hot Swap Cont./Power Sequencer*	8-SOIC	6.13	4.07	3.20
LTC1645IS#PBF-ND	2-Ch. Hot Swap Cont./Power Sequencer*	14-SOIC	7.88	5.23	4.10
LTC1645IS8#PBF-ND	2-Ch. Hot Swap Cont./Power Sequencer*	8-SOIC	7.00	4.65	3.65
LTC1646CGN-ND	CompactPCI Dual Hot Swap Controller	16-SSOP	7.00	4.65	3.75
LTC1646CGN#PBF-ND	CompactPCI Dual Hot Swap Controller*	16-SSOP	7.00	4.65	3.75
LTC1647-1CS8#PBF-ND	2-Channel Hot Swap Controller*	8-SOIC	6.13	4.07	3.20
LTC1647-2CS8#PBF-ND	2-Channel Hot Swap Controller*	8-SOIC	6.13	4.07	3.20
LTC1647-3CGN#PBF-ND	2-Channel Hot Swap Controller*	16-SSOP	6.63	4.40	3.45
LTC4210-1CS6#TRMPBFCT-ND	Hot Swap Controller*	TSOT-23-6	3.86	3.45	3.11
LTC4210-1CS6#TRMPBFTR-ND	Hot Swap Controller*	TSOT-23-6	900.00/500		
LTC4210-1IS6#TRMPBFCT-ND	Hot Swap Controller*	TSOT-23-6	4.42	3.95	3.56
LTC4210-1IS6#TRMPBFTR-ND	Hot Swap Controller*	TSOT-23-6	1135.00/500		
LTC4210-2CS6#TRMCT-ND	Hot Swap Controller	TSOT-23-6	3.86	3.45	3.11
LTC4210-2CS6#TRMPBFCT-ND	Hot Swap Controller*	TSOT-23-6	3.86	3.45	3.11
LTC4210-2CS6#TRMPBFTR-ND	Hot Swap Controller*	TSOT-23-6	985.00/500		
LTC4210-2IS6#TRMPBFCT-ND	Hot Swap Controller*	TSOT-23-6	4.42	3.95	3.56
LTC4210-2IS6#TRMPBFTR-ND	Hot Swap Controller*	TSOT-23-6	1135.00/500		
LTC4211CMS8#PBF-ND	Hot Swap Controller*	8-MSOP	4.25	2.83	2.25
LTC4211IMS#PBF-ND	Hot Swap Controller*	10-MSOP	6.00	3.99	3.15
LTC4215CGN#PBF-ND	Hot Swap Controller, I^2C Compatible Monitoring*	16-SSOP	7.70	5.49	4.52
LTC4215CUFD#PBF-ND	Hot Swap Controller, I^2C Compatible Monitoring*	24-QFN	8.10	5.78	4.76
LTC4215CUFD-2#PBF-ND	I^2C Compatible Hot Swap Controller* ***NEW!***	24-QFN	8.40	5.78	4.76
LTC4215IUFD-2#PBF-ND	I^2C Compatible Hot Swap Controller* ***NEW!***	24-QFN	10.08	6.94	5.72

* *RoHS Compliant*

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(Continued)

LINEAR TECHNOLOGY DigiReel® *(Cont.)* POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC4217CDHC#PBF-ND	2A Hot Swap Controller*	16-DFN	7.13	4.79	4.07
LTC4217CDHC-12#PBF-ND	2A Hot Swap Controller*	16-DFN	7.13	4.79	4.07
LTC4217IDHC#PBF-ND	2A Hot Swap Controller*	16-DFN	8.18	5.50	4.68
LTC4217IDHC-12#PBF-ND	2A Hot Swap Controller*	16-DFN	8.18	5.50	4.68
LTC4217IFE#PBF-ND	2A Hot Swap Controller*	20-TSSOP	8.18	5.50	4.68
LTC4218CDHC-12#PBF-ND	Hot Swap Controller*	16-DFN	5.63	3.79	3.22
LTC4218CGN#PBF-ND	Hot Swap Controller*	16-SSOP	5.63	3.79	3.22
LTC4218IDHC-12#PBF-ND	Hot Swap Controller*	16-DFN	6.48	4.35	3.70
LTC4218IGN#PBF-ND	Hot Swap Controller*	16-SSOP	6.48	4.35	3.70
LTC4221CGN#PBF-ND	Dual Hot Swap Controller/Power Sequencer*	16-SSOP	6.13	4.07	3.50
LTC4222CUH#PBF-ND	Dual Hot Swap Controller*	32-QFN	12.43	8.36	7.10
LTC4222IG#PBF-ND	Dual Hot Swap Controller*	36-SSOP	14.93	10.03	8.52
LTC4222IUH#PBF-ND	Dual Hot Swap Controller*	32-QFN	14.93	10.03	8.52
LTC4224CDDB-1#TRMPBFCT-ND	Compact Dual Low Voltage Hot Swap Controller*	10-DFN	5.82	5.20	4.68
LTC4224CDDB-2#TRMPBFCT-ND	Dual Low Voltage Hot Swap Controller*	10-DFN	5.77	5.15	4.64
LTC4224CDDB-2#TRMPBFTR-ND	Dual Low Voltage Hot Swap Controller*	10-DFN	1480.00/500		
LTC4224IDDB-1#TRMPBFCT-ND	Dual Low Voltage Hot Swap Controller*	10-DFN	6.69	5.98	5.38
LTC4224IDDB-2#TRMPBFCT-ND	Dual Low Voltage Hot Swap Controller*	10-DFN	6.69	5.98	5.38
LTC4224IMS-2#PBF-ND	Dual Low Voltage Hot Swap Controller*	10-MSOP	5.88	3.99	3.40
LTC4244CGN#PBF-ND	CompactPCI Hot Swap Controller*	20-SSOP	7.75	5.54	4.56
LTC4244IGN-1#PBF-ND	CompactPCI Hot Swap Controller*	20-SSOP	8.75	6.25	5.15
LTC4252-2CMS8-ND	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4253CGN#PBF-ND	Neg. 48V Hot Swap Controller with Sequencer*	16-SSOP	5.88	3.91	3.15
LTC4260CGN#PBF-ND	Positive High Voltage Hot Swap Controller*	24-SSOP	11.90	8.50	7.00
LTC4260CSW#PBF-ND	Positive High Voltage Hot Swap Controller*	24-SOIC	11.90	8.50	7.00
LTC4260CUH#PBF-ND	Positive High Voltage Hot Swap Controller*	32-QFN	11.90	8.50	7.00
LTC4260IGN#PBF-ND	Positive High Voltage Hot Swap Controller*	24-SSOP	14.30	10.21	8.41
LTC4261CGN#PBF-ND	Negative Voltage Hot Swap Controller*	28-SSOP	11.90	8.50	7.00
LTC4261CUFD#PBF-ND	Negative Voltage Hot Swap Controller*	24-QFN	11.90	8.50	7.00
LTC4261IGN#PBF-ND	Negative Voltage Hot Swap Controller*	28-SSOP	14.30	10.21	8.41
PCMCIA Switches					
LTC1315CG-ND	PCMCIA Switching Matrix	24-SSOP	6.25	4.15	3.35
LT1312CS8-ND	Single PCMCIA VPP Driver/Regulator	8-SOIC	3.75	2.50	2.15
LTC1470CS8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch*	8-SOIC	4.90	3.26	2.60
LTC1470ES8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch*	8-SOIC	5.38	3.84	3.16
LTC1471CS-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch	16-SOIC	7.50	5.00	4.29
LTC1471CS#PBF-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch*	16-SOIC	7.50	5.00	4.29
LTC1472CS#PBF-ND	Protected PCMCIA Vcc/VPP Switching Matrix*	16-SOIC	6.25	4.15	3.55
PWM Controllers					
LT1242CS8#PBF-ND	High Speed Current Mode PWM*	8-SOIC	3.88	2.58	2.30
LT1243CN8#PBF-ND	High Speed Current Mode PWM*	8-Dip	3.90	2.59	2.10
LT1243CS8#PBF-ND	High Speed Current Mode PWM*	8-SOIC	4.40	2.93	2.30
LT1243IN8#PBF-ND	High Speed Current Mode PWM, Ind. Temp.*	8-Dip	4.40	2.93	2.30
LT1244CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1244CN8#PBF-ND	High Speed Current Mode PWM*	8-Dip	3.50	2.33	2.10
LT1244CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1244CS8#PBF-ND	High Speed Current Mode PWM*	8-SOIC	3.88	2.58	2.30
LT1245CS8-ND	High Speed Current Mode PWM	8-SOIC	4.40	2.93	2.30
LT1245CS8#PBF-ND	High Speed Current Mode PWM*	8-SOIC	4.40	2.93	2.30
CCFL/LCD					
LT1182CS#PBF-ND	CCFL/LCD Contrast Switching Regulator*	16-SOIC	9.38	6.25	5.35
LT1183CS-ND	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1184CS#PBF-ND	CCFL/LCD Contrast Switching Regulator*	16-SOIC	7.30	4.85	3.80
LT1184FCS#PBF-ND	CCFL/LCD Contrast Switching Reg., Floating*	16-SOIC	8.60	5.72	4.50
MOSFET Drivers					
LT1158CN#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-Dip	6.60	4.39	3.50
LT1158CSW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-SOIC	7.00	4.65	3.75
LT1158ISW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-SOIC	8.20	5.45	4.30
LT1160CS#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	14-SOIC	5.63	3.75	3.20
LT1161CN#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-Dip	6.40	4.25	3.30
LT1161CSW#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-SOIC	7.00	4.65	3.60
LT1161IN#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-Dip	7.20	4.79	3.70
LT1161ISW#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-SOIC	7.80	5.18	4.05
LT1336CS#PBF-ND	Half Bridge N-Channel MOSFET Driver*	16-SOIC	6.00	4.00	3.40
LT1910ES8#PBF-ND	High Side MOSFET Driver*	8-SOIC	4.13	2.95	2.43
LT1910IS8#PBF-ND	High Side MOSFET Driver* ***NEW!***	8-SOIC	4.50	3.03	2.57
LTC1153CS8#PBF-ND	Auto-Reset Electronic Circuit Breaker*	8-SOIC	4.30	2.86	2.25
LTC1153IS8#PBF-ND	Auto-Reset Electronic Circuit Breaker*	8-SOIC	5.10	3.39	2.75
LTC1154CS8#PBF-ND	Single High Side MOSFET Driver*	8-SOIC	3.80	2.53	2.00
LTC1155CN8#PBF-ND	Dual High Side MOSFET Driver*	8-Dip	5.80	3.86	3.00
LTC1155CS8#PBF-ND	Dual High Side MOSFET Driver*	8-SOIC	6.20	4.12	3.20
LTC1157CS8#PBF-ND	Dual, 3.3V, High Side MOSFET Driver*	8-SOIC	4.75	3.16	2.65
LTC1163CS8#PBF-ND	Triple High Side MOSFET Driver*	8-SOIC	5.25	3.50	2.90
LTC1165CS8-ND	Triple High Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1165CS8#PBF-ND	Triple High Side MOSFET Driver*	8-SOIC	5.25	3.50	2.90
LTC1255CS8#PBF-ND	Dual 24V High Side MOSFET Driver*	8-SOIC	6.10	4.06	3.20
LTC1266CS#PBF-ND	Sync. Reg. Controller for N/P Ch. MOSFETS*	16-SOIC	7.50	4.98	4.05
LTC1266CS-3.3-ND	3.3V Sync. Reg. Controller for N/P Ch. MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266IS-ND	Sync. Reg. Controller for N/P Ch. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS#PBF-ND	Sync. Reg. Controller for N/P Ch. MOSFETS*	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3-ND	3.3V Sync. Reg. Controller for N/P Ch. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3#PBF-ND	3.3V Sync. Reg. Cont. for N/P Ch. MOSFETS*	16-SOIC	8.50	5.65	4.45
LTC1266IS-5-ND	5V Sync. Reg. Controller for N/P Ch. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1477CS8#PBF-ND	Single Protected High Side Switch*	8-SOIC	6.25	4.15	3.50
LTC1478CS#PBF-ND	Dual Protected High Side Switch*	16-SOIC	10.00	6.65	5.55
LTC1693-1CS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver*	8-SOIC	3.50	2.33	1.75
LTC1693-1IS8#PBF-ND	HS Dual N-Channel MOSFET Driver, Ind. Temp.*	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8#PBF-ND	HS Dual N-Channel MOSFET Driver, Ind. Temp.*	8-SOIC	4.00	2.66	2.00
LTC1693-5CMS8#PBF-ND	High-Speed Single P-Channel MOSFET Driver*	8-MSOP	3.63	2.41	1.82
LTC1710CMS8-ND	Dual SMBus High Side Switch	8-MSOP	6.38	4.24	3.20
LTC1710CS8-ND	Dual SMBus High Side Switch	8-SOIC	5.88	3.91	2.95
LTC1710IS8-ND	Dual SMBus High Side Switch, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LTC1981ES5#TRMCT-ND	Single MPU High Side Switcher Controller	TSOT-23-5	3.02	2.70	2.43
LTC1981ES5#TRMPBFCT-ND	Single MPU High Side Switcher Controller*	TSOT-23-5	3.02	2.70	2.43
LTC1981ES5#TRMPBFTR-ND	Single MPU High Side Switcher Controller*	TSOT-23-5	675.00/500		
LTC1982ES6#TRMPBFCT-ND	Dual N-Channel MOSFET Driver*	SOT-23-6	3.47	3.10	2.79
LTC1982ES6#TRMPBFTR-ND	Dual N-Channel MOSFET Driver*	SOT-23-6	885.00/500		
LTC4440EMS8E#PBF-ND	HS, High Voltage, High Side Gate Driver*	8-MSOP	3.50	2.50	2.06
LTC4440ES6#TRMPBFCT-ND	High-Speed, High Volt., High Side Gate Driver*	SOT-23-6	4.14	3.70	3.33
LTC4440ES6#TRMPBFTR-ND	High-Speed, High Volt., High Side Gate Driver*	SOT-23-6	1060.00/500		
LTC4442EMS8E#PBF-ND	High-Speed Sync. N-Ch. MOSFET Driver*	8-MSOP	2.50	1.79	1.47
LTC4444EMS8E#PBF-ND	High Voltage, Sync. N-Ch. MOSFET Driver*	8-MSOP	3.38	2.61	2.06
LTC4446EMS8E#PBF-ND	High Volt. High/Low Side N-Ch. MOSFET Driver*	8-MSOP	3.38	2.42	2.05
LTC4449EDCB#TRMPBFCT-ND	High Speed Sync. N-Ch. MOSFET Driver* ***NEW!***	8-DFN	2.91	2.60	2.34
LTC4449EDCB#TRMPBFTR-ND	High Speed Sync. N-Ch. MOSFET Driver* ***NEW!***	8-DFN	760.00/500		

LINEAR TECHNOLOGY DigiReel® *(Cont.)* POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Supply Tracker					
LTC2908CTS8-C1#TRMPBFCT-ND	Precision Six Input Supply Monitor*	TSOT-23-8	5.85	5.23	4.71
LTC2908ITS8-C1#TRMPBFCT-ND	Precision Six Input Supply Monitor*	TSOT-23-8	6.55	5.85	5.27
LTC2908ITS8-C1#TRMPBFTR-ND	Precision Six Input Supply Monitor*	TSOT-23-8	1635.00/500		
LTC2910CDHC#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-DFN	6.40	4.57	3.76
LTC2910CGN#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-SSOP	6.40	4.57	3.76
LTC2910IDHC#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-DFN	7.70	5.50	4.53
LTC2910IGN#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-SSOP	7.70	5.50	4.53
LTC2912CTS8-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	3.36	3.00	2.70
LTC2912CTS8-1#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	855.00/500		
LTC2912CTS8-2#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	3.36	3.00	2.70
LTC2912CTS8-2#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	855.00/500		
LTC2912ITS8-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2912ITS8-1#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	1020.00/500		
LTC2912ITS8-2#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2912ITS8-2#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	1020.00/500		
LTC2912ITS8-3#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2913CDD-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	4.60	3.29	2.71
LTC2913CDD-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	4.60	3.29	2.71
LTC2913CMS-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	4.60	3.29	2.71
LTC2913CMS-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	4.60	3.29	2.71
LTC2913IDD-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	5.50	3.93	3.24
LTC2913IDD-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	5.50	3.93	3.24
LTC2913IMS-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	5.50	3.93	3.24
LTC2914CDHC-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	7.50	5.36	4.41
LTC2914CDHC-2#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	7.50	5.36	4.41
LTC2914IDHC-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	9.00	6.43	5.29
LTC2914IDHC-2#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	9.00	6.43	5.29
LTC2914IGN-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-SSOP	9.00	6.43	5.29
LTC2921CGN-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2922CF-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2923CDE#PBF-ND	Power Supply Tracking Controller*	12-DFN	6.25	4.15	3.35
LTC2924CGN#PBF-ND	Quad Power Supply Sequencer*	16-SSOP	5.25	3.50	3.00
LTC2925CGN#PBF-ND	Multiple Power Supply Tracking Controller*	24-SSOP	7.50	5.36	4.41
LTC2928IG#PBF-ND	Power Supply Tracker with Monitor*	36-SSOP	9.73	6.94	5.72
LTC2928IUHF#PBF-ND	Power Supply Tracker with Monitor*	38-QFN	9.73	6.94	5.72
LTC2950CDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2950CDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1065.00/500		
LTC2950CDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2950CDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1065.00/500		
LTC2950CTS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2950CTS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2950CTS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2950CTS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2950IDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2950IDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1250.00/500		
LTC2950IDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2950IDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1250.00/500		
LTC2950ITS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2950ITS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		
LTC2950ITS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2950ITS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		
LTC2951CDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2951CDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1065.00/500		
LTC2951CDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2951CTS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2951CTS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2951CTS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2951CTS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2951IDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2951IDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2951ITS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2951ITS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		
LTC2951ITS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2951ITS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		
LTC2952CF#PBF-ND	Pushbutton PowerPath™ Controller*	20-TSSOP	5.90	4.21	3.47
LTC2952CUF#PBF-ND	Pushbutton PowerPath™ Controller*	20-QFN	5.90	4.21	3.47
LTC2952IF#PBF-ND	Pushbutton PowerPath™ Controller*	20-TSSOP	7.08	5.05	4.16
LTC2952IUF#PBF-ND	Pushbutton PowerPath™ Controller*	20-QFN	7.08	5.05	4.16
LTC2953CDD-1#PBF-ND	Pushbutton On/Off Controller*	12-DFN	4.60	3.29	2.71
LTC2953CDD-2#PBF-ND	Pushbutton On/Off Controller*	12-DFN	4.60	3.29	2.71
LTC2953IDD-1#PBF-ND	Pushbutton On/Off Controller*	12-DFN	5.53	3.94	3.25
LTC2953IDD-2#PBF-ND	Pushbutton On/Off Controller*	12-DFN	5.53	3.94	3.25
LTC2954CDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2954CDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1065.00/500		
LTC2954CDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2954CDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1065.00/500		
LTC2954CTS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2954CTS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2954CTS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2954CTS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1065.00/500		
LTC2954IDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2954IDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1250.00/500		
LTC2954ITS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2954ITS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		
LTC2954ITS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2954ITS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1250.00/500		

LINEAR TECHNOLOGY DigiReel® REFERENCES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM399AH-ND	Precision Voltage Reference 6.95V	TO-46	13.13	9.37	7.72
LM399HLT-ND	Precision Voltage Reference 6.95V	TO-46	9.88	6.64	5.47
LT1004CS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	8-SOIC	3.20	2.13	1.65
LT1004CS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	8-SOIC	3.20	2.13	1.65
LT1004CZ-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	TO-92	2.60	1.73	1.35
LT1004CZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	TO-92	2.60	1.73	1.35
LT1004IS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	8-SOIC	6.20	4.12	3.20
LT1004IS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	8-SOIC	6.20	4.12	3.20
LT1004IZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	TO-92	5.50	3.66	2.85

***** RoHS Compliant*

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(Continued)

LINEAR TECHNOLOGY DigiReel® (Cont.) REFERENCES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1009CMS8#PBF-ND	2.5V Reference Shunt Regulator*	8-MSOP	3.75	2.49	2.00
LT1009CZ#PBF-ND	2.5V Reference Shunt Regulator*	TO-92	2.60	1.73	1.35
LT1009IS8#PBF-ND	2.5V Reference Shunt Regulator*	8-SOIC	4.90	3.26	2.55
LT1009IZ#PBF-ND	2.5V Reference Shunt Regulator*	TO-92	4.50	2.99	2.35
LT1009S8#PBF-ND	2.5V Reference Shunt Regulator*	8-SOIC	3.50	2.33	1.85
LT1019ACN8-2.5#PBF-ND	Prec. 2.5V Bandgap Ref. (Elect. Improved) .05%*	8-Dip	12.50	8.30	6.50
LT1019ACN8-4.5#PBF-ND	Prec. 4.5V Bandgap Ref. (Elect. Improved) .05%*	8-Dip	12.50	8.30	6.50
LT1019ACN8-5#PBF-ND	Prec. 5V Bandgap Ref. (Elect. Improved) .05%*	8-Dip	12.50	8.30	6.50
LT1019ACS8-2.5#PBF-ND	Prec. 2.5V Reference (Elect. Improved) .05%*	8-SOIC	10.88	7.50	6.50
LT1019ACS8-5#PBF-ND	Precision 5V Reference (Elect. Improved) .05%*	8-SOIC	10.88	7.50	6.50
LT1019CN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .2%*	8-Dip	7.40	4.92	3.90
LT1019CN8-5#PBF-ND	Precision 5V Bandgap Reference .2%*	8-Dip	7.40	4.92	3.90
LT1019CS8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .2%*	8-SOIC	9.30	6.18	4.85
LT1019CS8-4.5#PBF-ND	Precision 4.5V Bandgap Reference .2%*	8-SOIC	9.30	6.18	4.85
LT1019CS8-5#PBF-ND	Precision 5V Bandgap Reference .2%*	8-SOIC	9.30	6.18	4.85
LT1019CS8-10#PBF-ND	Precision 10V Bandgap Reference .2%*	8-SOIC	9.30	6.18	4.85
LT1019IN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .2%*	8-Dip	9.50	6.31	4.95
LT1021BCN8-7#PBF-ND	Precision 7V Reference, TC 5ppm/°C*	8-Dip	10.50	6.98	5.50
LT1021BCN8-10#PBF-ND	Precision 10V Reference, TC 5ppm/°C*	8-Dip	10.50	6.98	5.50
LT1021CCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	7.00	4.65	3.65
LT1021CCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-Dip	7.00	4.65	3.65
LT1021CIN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	9.30	6.18	4.85
LT1021CIN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	9.30	6.18	4.85
LT1021DCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	5.30	3.52	2.75
LT1021DCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-Dip	5.30	3.52	2.75
LT1021DCS8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-SOIC	6.40	4.25	3.35
LT1021DCS8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-SOIC	6.40	4.25	3.35
LT1027BCN8-5#PBF-ND	5V Precision Reference, 2ppm/°C*	8-Dip	9.25	6.17	4.95
LT1027CCN8-5#PBF-ND	5V Precision Reference, 3ppm/°C*	8-Dip	8.38	5.58	4.50
LT1027CCS8-5#PBF-ND	5V Precision Reference, 3ppm/°C*	8-SOIC	9.50	6.31	4.75
LT1027DCN8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-Dip	7.38	4.92	3.95
LT1027ECN8-5-ND	5V Precision Reference, 7.5ppm/°C	8-Dip	6.88	4.58	3.65
LT1027ECN8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C*	8-Dip	6.88	4.58	3.65
LT1027ECS8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C*	8-SOIC	4.63	3.10	2.40
LT1029ACZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C*	TO-92	5.00	3.32	2.60
LT1029CZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C*	TO-92	3.10	2.06	1.60
LT1034BCZ-2.5#PBF-ND	Dual 2.5V Reference, Max TC = 20 ppm/°C*	TO-92	5.50	3.66	2.85
LT1034CS8-1.2#PBF-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C*	8-SOIC	4.70	3.13	2.40
LT1034CZ-2.5-ND	Dual 2.5V Reference, Max TC = 40 ppm/°C	TO-92	4.10	2.73	2.15
LT1034IZ-2.5-ND	Dual 2.5V Reference, 20ppm/°C	TO-92	5.90	3.92	3.05
LT1236ACN8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-Dip	7.75	5.15	4.00
LT1236ACS8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-SOIC	7.75	5.15	4.00
LT1236ACS8-10#PBF-ND	10V Precision Reference, 5ppm/°C*	8-SOIC	6.38	4.24	3.30
LT1236AIS8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-SOIC	10.25	6.81	5.32
LT1236AIS8-10#PBF-ND	10V Precision Reference, 5ppm/°C*	8-SOIC	7.63	5.07	3.95
LT1236BCS8-5#PBF-ND	5V Precision Reference, 10ppm/°C*	8-SOIC	4.50	2.99	2.30
LT1236BCS8-10#PBF-ND	10V Precision Reference, 10ppm/°C*	8-SOIC	4.88	3.24	2.55
LT1236BIS8-5#PBF-ND	5V Precision Reference 10ppm/°C*	8-SOIC	5.13	3.41	2.65
LT1236CCN8-5#PBF-ND	5V Precision Reference, 15ppm/°C*	8-Dip	4.00	2.66	2.05
LT1236CCN8-10#PBF-ND	10V Precision Reference, 15ppm/°C*	8-Dip	4.50	2.99	2.35
LT1236CCS8-5#PBF-ND	5V Precision Reference, 15ppm/°C*	8-SOIC	4.00	2.66	2.05
LT1389ACS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	11.13	7.39	5.57
LT1389BCS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5#PBF-ND	2.5V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	6.50	4.32	3.25
LT1431CS8#PBF-ND	Programmable Reference, .4% Tolerance*	8-SOIC	3.50	2.33	1.80
LT1460ACS8-2.5#PBF-ND	2.5V Micropower Precision Series Reference*	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5#PBF-ND	5V Micropower Precision Series Reference*	8-SOIC	6.25	4.15	3.45
LT1460ACS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.*	8-SOIC	6.25	4.15	3.25
LT1460BIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	9.13	6.06	5.05
LT1460BIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	9.13	6.06	5.05
LT1460DCS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460EIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.50	2.99	2.50
LT1460EIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.38	2.91	2.40
LT1460FCMS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-MSOP	4.25	2.83	2.30
LT1460GCZ-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	TO-92	3.00	2.00	1.65
LT1460GIZ-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	TO-92	3.25	2.16	1.75
LT1460HCS3-3#TRMPBFCT-ND	3V MPU Prec. Series Bandgap Ref.*	SOT-23	6.52	5.83	5.25
LT1460HCS3-3#TRMPBFTR-ND	3V MPU Prec. Series Bandgap Ref.*	SOT-23	1550.00/500		
LT1461ACS8-2.5#PBF-ND	2.5V Micropower Precision LDO Voltage Ref.*	8-SOIC	10.75	7.68	6.32
LT1461ACS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Ref.*	8-SOIC	12.88	9.20	7.57
LT1461ACS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	10.75	7.68	6.32
LT1461ACS8-5#PBF-ND	5V Micropower Precision LDO Volt. Reference*	8-SOIC	10.75	7.68	6.32
LT1461AIS8-5#PBF-ND	5V Micropower Precision LDO Volt. Ref.*	8-SOIC	11.50	8.21	6.76
LT1461BCS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	7.38	5.27	4.34
LT1461BCS8-5#PBF-ND	5V Micropower Precision LDO Volt. Reference*	8-SOIC	7.38	5.27	4.34
LT1461CCS8-3#PBF-ND	3V Micropower Precision LDO Volt. Reference*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Ref.*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5#PBF-ND	5V Micropower Precision LDO Volt. Reference*	8-SOIC	3.00	2.00	1.75
LT1461DHS8-3#PBF-ND	3V Micropower Precision LDO Volt. Reference*	8-SOIC	3.00	2.00	1.75
LT1461DHS8-5#PBF-ND	5V Micropower Precision LDO Volt. Reference*	8-SOIC	3.00	2.00	1.75
LT1634ACS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5#PBF-ND	5V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634AIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	10.38	6.89	5.20
LT1634BCMS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-MSOP	5.20	3.46	2.70
LT1634BCS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	4.70	3.13	2.40
LT1634BCS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference*	8-SOIC	4.70	3.13	2.40
LT1634BIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	5.70	3.79	2.95
LT1634BIS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference*	8-SOIC	5.70	3.79	2.95
LT1790BCS6-1.25#TRMPBFCT-ND	1.25V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-1.25#TRMPBFTR-ND	1.25V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-2.048#TRMPBFCT-ND	2.048V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-2.048#TRMPBFTR-ND	2.048V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-2.5#TRMPBFCT-ND	2.5V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-2.5#TRMPBFTR-ND	2.5V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-3#TRMPBFCT-ND	3V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-3#TRMPBFTR-ND	3V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-3.3#TRMPBFCT-ND	3.3V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-3.3#TRMPBFTR-ND	3.3V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-4.096#TRMPBFCT-ND	4.096V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-4.096#TRMPBFTR-ND	4.096V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BCS6-5#TRMPBFCT-ND	5V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-5#TRMPBFTR-ND	5V Micropower LDO Reference*	SOT-23-6	706.25/500		
LT1790BIS6-4.096#TRMPBFCT-ND	4.096V Micropower LDO Reference*	SOT-23-6	3.72	3.33	3.00
LT1790BIS6-4.096#TRMPBFTR-ND	4.096V Micropower LDO Reference*	SOT-23-6	905.00/500		
LT6656ACS6-2.5#TRMPBFCT-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	5.96	5.33	4.80
LT6656ACS6-2.5#TRMPBFTR-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	1430.00/500		
LT6656AIS6-2.5#TRMPBFCT-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	6.66	5.95	5.36
LT6656AIS6-2.5#TRMPBFTR-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	1600.00/500		
LT6656BCS6-2.5#TRMPBFCT-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	4.28	3.83	3.45
LT6656BCS6-2.5#TRMPBFTR-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	1020.00/500		
LT6656BIS6-2.5#TRMPBFCT-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	4.87	4.35	3.92
LT6656BIS6-2.5#TRMPBFTR-ND	2.5V, Precision Series Voltage Ref.* ***NEW!***	TSOT-23-6	1165.00/500		
LT6660HCDC-10#TRMPBFCT-ND	10V, Micropower Precision Series Reference*	3-DFN	3.08	2.75	2.48
LT6660HCDC-10#TRMPBFTR-ND	10V, Micropower Precision Series Reference*	3-DFN	775.00/500		
LT6660HCDC-2.5#TRMPBFCT-ND	2.5V, Micropower Precision Series Reference*	3-DFN	3.08	2.75	2.48
LT6660HCDC-2.5#TRMPBFTR-ND	2.5V, Micropower Precision Series Reference*	3-DFN	775.00/500		
LT6660HCDC-3#TRMPBFCT-ND	3V, Micropower Precision Series Reference*	3-DFN	3.08	2.75	2.48
LT6660HCDC-3#TRMPBFTR-ND	3V, Micropower Precision Series Reference*	3-DFN	775.00/500		
LT6660HCDC-3.3#TRMPBFCT-ND	3.3V, Micropower Precision Series Reference*	3-DFN	3.08	2.75	2.48
LT6660HCDC-3.3#TRMPBFTR-ND	3.3V, Micropower Precision Series Reference*	3-DFN	775.00/500		
LT6660HCDC-5#TRMPBFCT-ND	5V, Micropower Precision Series Reference*	3-DFN	3.08	2.75	2.48
LT6660HCDC-5#TRMPBFTR-ND	5V, Micropower Precision Series Reference*	3-DFN	775.00/500		
LTC1258CMS8-ND	Adj., Micropower LDO Bandgap Reference	8-MSOP	5.13	3.41	2.65
LTC1258CMS8#PBF-ND	Adj., Micropower LDO Bandgap Reference*	8-MSOP	5.13	3.41	2.65
LTC1258CS8-5-ND	5V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC6652AHMS8-1.25#PBF-ND	1.25V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-2.048#PBF-ND	2.048V, Precision Buffered Reference*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-2.5#PBF-ND	2.5V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-3#PBF-ND	3V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-3.3#PBF-ND	3.3V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-4.096#PBF-ND	4.096V, Precision Buffered Reference*	8-MSOP	6.73	4.80	3.95
LTC6652AHMS8-5#PBF-ND	5V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	6.73	4.80	3.95
LTC6652BHMS8-1.25#PBF-ND	1.25V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	3.30	2.36	1.95
LTC6652BHMS8-2.048#PBF-ND	2.048V, Precision Buffered Reference*	8-MSOP	3.30	2.36	1.95
LTC6652BHMS8-2.5#PBF-ND	2.5V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	3.30	2.36	1.95
LTC6652BHMS8-3.3#PBF-ND	3.3V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	3.30	2.36	1.95
LTC6652BHMS8-4.096#PBF-ND	4.096V, Precision Buffered Reference*	8-MSOP	3.30	2.36	1.95
LTC6652BHMS8-5#PBF-ND	5V, Prec. Low Drift, Low Noise Buffered Ref.*	8-MSOP	3.30	2.36	1.95
LTC6655BHMS8-1.25#PBF-ND	1.25V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-2.048#PBF-ND	2.048V, Prec. Low Drift Buffered Ref.* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-2.5#PBF-ND	2.5V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-3#PBF-ND	3V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-3.3#PBF-ND	3.3V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-4.096#PBF-ND	4.096V, Prec. Low Drift Buffered Ref.* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655BHMS8-5#PBF-ND	5V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	12.23	8.12	6.70
LTC6655CHMS8-1.25#PBF-ND	1.25V, Prec. Low Drift Buffered Ref.* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-2.048#PBF-ND	2.048V, Prec. Low Drift Buffered Ref.* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-2.5#PBF-ND	2.5V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-3#PBF-ND	3V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-3.3#PBF-ND	3.3V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-4.096#PBF-ND	4.096V, Prec. Low Drift Buffered Ref.* ***NEW!***	8-MSOP	7.65	5.08	4.19
LTC6655CHMS8-5#PBF-ND	5V, Prec. Low Drift Buffered Reference* ***NEW!***	8-MSOP	7.65	5.08	4.19

LINEAR TECHNOLOGY DigiReel® DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
General Purpose ADC					
LTC1090ACN#PBF-ND	Single Chip 8-Channel, 10-Bit*	20-Dip	29.90	19.86	15.80
LTC1090CN#PBF-ND	Single Chip 8-Channel, 10-Bit*	20-Dip	18.90	12.55	9.90
LTC1091CN8#PBF-ND	Single Chip 2-Channel, 10-Bit*	8-Dip	17.50	11.70	9.90
LTC1092CN8-ND	Single Chip 1-Channel, 10-Bit	8-Dip	17.50	11.65	9.90
LTC1092CN8#PBF-ND	Single Chip 1-Channel, 10-Bit*	8-Dip	17.50	11.65	9.90
LTC1094CN#PBF-ND	Single Chip 8-Channel, 10-Bit*	20-Dip	17.50	11.65	9.90
LTC1096ACS8-ND	µPower Sampling 8-Bit Serial In/Out ADC	8-SOIC	6.75	4.50	3.60
LTC1096CS8#PBF-ND	µPower Sampling 8-Bit Serial In/Out ADC*	8-SOIC	5.50	3.70	2.90
LTC1098CN8#PBF-ND	µPower Sampling 8-Bit Serial In/Out ADC*	8-Dip	5.50	3.70	2.90
LTC1098CS8#PBF-ND	µPower Sampling 8-Bit Serial In/Out ADC*	8-SOIC	5.50	3.70	2.90
LTC1099CN-ND	8-Bit, HS ADC with Sample and Hold	20-Dip	14.88	9.90	8.25
LTC1099CN#PBF-ND	8-Bit, HS ADC with Sample and Hold*	20-Dip	14.88	9.90	8.25
LTC1099CSW#PBF-ND	8-Bit, HS ADC with Sample and Hold*	20-SOIC	19.38	12.90	10.70
LTC1196-2BCS8#PBF-ND	8-Bit, 710nS, 1MHz, Sampling ADC*	8-SOIC	4.80	3.19	2.50
LTC1197CS8#PBF-ND	10-Bit, 250kHz ADC with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1197IS8#PBF-ND	10-Bit, 250kHz ADC with Shutdown*	8-SOIC	5.25	3.49	2.80
LTC1197LCS8-ND	3V, 10-Bit, 250kHz ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197LCS8#PBF-ND	3V, 10-Bit, 250kHz ADC with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1197LIS8#PBF-ND	3V, 10-Bit, 250kHz ADC with Shutdown*	8-SOIC	5.25	3.49	2.80
LTC1198-2BCS8-ND	2-Channel, 8-Bit, 750kHz Sampling ADC	8-SOIC	5.25	3.50	3.00
LTC1198-2BCS8#PBF-ND	2-Channel, 8-Bit, 750kHz Sampling ADC*	8-SOIC	5.25	3.50	3.00
LTC1199CMS8-ND	10-Bit ADC 210kHz with Shutdown	8-MSOP	5.50	3.66	2.95
LTC1199CS8#PBF-ND	10-Bit ADC 210kHz with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1199IMS8-ND	10-Bit ADC 450kHz with Shutdown	8-MSOP	6.13	4.07	3.25
LTC1272-3ACSW-ND	12-Bit, 3µS, 250kHz Sampling ADC	24-SOIC	35.00	23.35	18.76
LTC1272-3CCSW-ND	12-Bit, 3µS, 250kHz Sampling ADC	24-SOIC	22.75	15.15	12.15
LTC1272-8CCN-ND	12-Bit, 8µS, 250kHz Sampling ADC	24-Dip	15.00	9.96	—
LTC1272-8CCN#PBF-ND	12-Bit, 8µS, 250kHz Sampling ADC*	24-Dip	15.00	10.00	8.00
LTC1273BCN#PBF-ND	12-Bit, 2.7µS, Sampling ADC*	24-Dip	23.50	15.65	12.55
LTC1273BCSW-ND	12-Bit, 2.7µS, Sampling ADC	24-SOIC	25.88	17.25	13.80
LTC1273BCSW#PBF-ND	12-Bit, 2.7µS, Sampling ADC*	24-SOIC	25.88	17.25	13.80
LTC1274CSW-ND	12-Bit, 100kSPS ADC with Shutdown	24-SOIC	14.88	9.90	8.25
LTC1274CSW#PBF-ND	12-Bit, 100kSPS ADC with Shutdown*	24-SOIC	14.88	9.90	8.25
LTC1278-4CN#PBF-ND	12-Bit, 400kSPS ADC with Shutdown*	24-Dip	24.00	16.00	12.85
LTC1278-4ISW#PBF-ND	12-Bit, 400kSPS ADC with Shutdown*	24-SOIC	27.50	18.35	14.70

** RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1278-5CSW#PBF-ND	12-Bit Sampling ADC with Shutdown*	24-SOIC	25.63	17.10	14.65
LTC1279CG-ND	12-Bit Sampling ADC with Shutdown	24-SSOP	25.88	17.19	14.20
LTC1282BCSW-ND	12-Bit 3V, Sampling ADC with Reference	24-SOIC	28.13	18.75	14.75
LTC1285CN8#PBF-ND	12-Bit 3V, Micropower Sampling ADC*	8-Dip	12.70	8.44	6.50
LTC1285CS8#PBF-ND	12-Bit 3V, Micropower Sampling ADC*	8-SOIC	13.50	8.97	6.95
LTC1286CN8#PBF-ND	12-Bit Micropower Sampling ADC*	8-Dip	9.88	6.60	5.25
LTC1286CS8#PBF-ND	12-Bit Micropower Sampling ADC*	8-SOIC	10.63	7.10	5.65
LTC1286IS8#PBF-ND	12-Bit Micropower Sampling ADC*	8-SOIC	13.25	8.85	7.05
LTC1288CN8#PBF-ND	12-Bit 3V, Serial In/Out Sampling ADC*	8-Dip	12.70	8.44	6.50
LTC1288CS8#PBF-ND	12-Bit 3V, Serial In/Out Sampling ADC*	8-SOIC	13.50	8.97	6.95
LTC1290CCN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	31.60	20.99	15.95
LTC1290CCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	37.90	25.17	19.15
LTC1290CIN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	45.20	30.02	23.35
LTC1290CISW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	45.20	30.02	23.35
LTC1290DCN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	13.20	8.77	6.70
LTC1290DCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	22.30	14.81	11.35
LTC1291CCN8-ND	12-Bit Data Acquisition System	8-Dip	28.13	18.75	15.00
LTC1291CCN8#PBF-ND	12-Bit Data Acquisition System*	8-Dip	28.13	18.75	15.00
LTC1291DCN8#PBF-ND	12-Bit Data Acquisition System*	8-Dip	18.13	12.10	9.50
LTC1292CCN8#PBF-ND	12-Bit Data Acquisition System*	8-Dip	28.13	18.75	15.00
LTC1292DCN8#PBF-ND	12-Bit Data Acquisition System*	8-Dip	18.13	12.10	9.50
LTC1293BCSW-ND	12-Bit Data Acquisition System	16-SOIC	45.00	30.00	23.96
LTC1293CCN#PBF-ND	12-Bit Data Acquisition System*	16-Dip	30.00	20.00	15.95
LTC1293DCN#PBF-ND	12-Bit Data Acquisition System*	16-Dip	18.13	12.10	9.50
LTC1293DCSW#PBF-ND	12-Bit Data Acquisition System*	16-SOIC	21.75	14.50	11.35
LTC1294BCSW-ND	12-Bit Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1294CCSW-ND	12-Bit Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1294DCN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	18.13	12.10	9.50
LTC1294DCSW-ND	12-Bit Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1294DCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	21.75	14.50	11.35
LTC1296BCN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	24.38	16.25	13.00
LTC1296BCSW-ND	12-Bit Data Acquisition System	20-SOIC	25.00	16.65	13.35
LTC1296BCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	25.00	16.65	13.35
LTC1296CCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	17.88	11.90	9.50
LTC1296DCN#PBF-ND	12-Bit Data Acquisition System*	20-Dip	15.88	10.60	8.45
LTC1296DCSW#PBF-ND	12-Bit Data Acquisition System*	20-SOIC	16.25	10.85	8.65
LTC1297DCN8-ND	12-Bit Data Acquisition System	8-Dip	21.75	14.50	11.40
LTC1297DCN8#PBF-ND	12-Bit Data Acquisition System*	8-Dip	21.75	14.50	11.40
LTC1298CN8#PBF-ND	12-Bit Sampling ADC*	8-Dip	9.88	6.60	5.25
LTC1298CS8#PBF-ND	12-Bit Sampling ADC*	8-SOIC	10.63	7.10	5.65
LTC1298IS8#PBF-ND	12-Bit Sampling ADC, Ind. Temp*	8-SOIC	13.25	8.85	7.05
LTC1392CN8#PBF-ND	10-Bit Micropwr. Data Acquisition System*	8-Dip	7.50	5.00	4.10
LTC1400CS8#PBF-ND	12-Bit 400kSPS ADC with Shutdown*	8-SOIC	10.00	6.64	5.25
LTC1400IS8-ND	12-Bit 400kSPS ADC with Shutdown	8-SOIC	11.13	7.39	5.85
LTC1400IS8#PBF-ND	12-Bit 400kSPS ADC with Shutdown*	8-SOIC	11.13	7.39	5.85
LTC1401IS8#PBF-ND	12-Bit 200kSPS ADC with Shutdown*	8-SOIC	7.75	5.15	4.05
LTC1403ACMSE#PBF-ND	14-Bit 2.8MSPS Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1403ACMSE-1#PBF-ND	14-Bit 2.8MSPS Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1403AIMSE#PBF-ND	14-Bit 2.8MSPS Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1403AIMSE-1#PBF-ND	14-Bit 2.8MSPS Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1403CMSE#PBF-ND	12-Bit 2.8MSPS Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1403CMSE-1#PBF-ND	12-Bit 2.8MSPS Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1403IMSE#PBF-ND	12-Bit 2.8MSPS Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1403IMSE-1#PBF-ND	12-Bit 2.8MSPS Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1404CS8#PBF-ND	12-Bit 600kSPS ADC with Shutdown*	8-SOIC	10.50	6.98	5.50
LTC1404IS8#PBF-ND	12-Bit 600kSPS ADC with Shutdown*	8-SOIC	11.50	7.64	6.05
LTC1407AHMSE#PBF-ND	14-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	20.53	13.80	11.73
LTC1407ACMSE#PBF-ND	14-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1407ACMSE-1#PBF-ND	14-Bit 3MSPS Simultaneous Sampling ADC	10-MSOP	14.00	10.00	8.24
LTC1407AIMSE#PBF-ND	14-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1407AIMSE-1#PBF-ND	14-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1407CMSE#PBF-ND	12-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1407CMSE-1#PBF-ND	12-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1407IMSE-1#PBF-ND	12-Bit 3MSPS Simultaneous Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1408CUH#PBF-ND	14-Bit 600kSPS ADC with Shutdown*	32-QFN	18.35	13.11	10.79
LTC1408CUH-12#PBF-ND	12-Bit 600kSPS ADC with Shutdown*	32-QFN	11.58	8.27	6.81
LTC1408IUH#PBF-ND	14-Bit 600kSPS ADC w/Shutdown*	32-QFN	22.03	15.73	12.96
LTC1408IUH-12#PBF-ND	12-Bit 600kSPS ADC w/Shutdown*	32-QFN	13.90	9.93	8.18
LTC1410CSW#PBF-ND	12-Bit 1.25MSPS Sampling ADC*	28-SOIC	21.25	14.11	10.65
LTC1412CG#PBF-ND	12-Bit 3MSPS Sampling ADC*	28-SSOP	21.38	14.20	10.69
LTC1414CGN#PBF-ND	14-Bit 2.2MSPS Sampling ADC*	28-SSOP	34.00	22.65	18.15
LTC1415CG#PBF-ND	12-Bit 1.25MSPS Sampling ADC*	28-SSOP	22.25	14.78	11.15
LTC1415CSW#PBF-ND	12-Bit 1.25MSPS Sampling ADC*	28-SOIC	21.25	14.11	10.65
LTC1415IG#PBF-ND	12-Bit 1.25MSPS Sampling ADC*	28-SSOP	24.25	16.11	12.15
LTC1416CG#PBF-ND	14-Bit 400kSPS Sampling ADC, Ind. Temp*	28-SSOP	14.75	9.80	7.40
LTC1416IG#PBF-ND	14-Bit 400kSPS Sampling ADC, Ind. Temp*	28-SSOP	15.75	10.46	7.88
LTC1417ACGN#PBF-ND	14-Bit 400kSPS Sampling ADC*	16-SSOP	20.00	13.28	10.00
LTC1417CGN#PBF-ND	14-Bit 400kSPS Sampling ADC*	16-SSOP	16.25	10.79	8.15
LTC1417IGN#PBF-ND	14-Bit 400kSPS Sampling ADC*	16-SSOP	17.88	11.87	8.95
LTC1418ACG#PBF-ND	14-Bit 200kSPS ADC, Serial/Parallel I/O*	28-SSOP	22.25	14.78	11.15
LTC1418AIG-ND	14-Bit 200kSPS ADC, S/P I/O, Ind. Temp.	28-SSOP	23.88	15.86	11.95
LTC1418CG-ND	14-Bit 200kSPS ADC, S/P I/O, Ind. Temp.	28-SSOP	17.25	11.46	8.65
LTC1418CG#PBF-ND	14-Bit 200kSPS ADC, S/P I/O, Ind. Temp*	28-SSOP	17.25	11.46	8.65
LTC1418CN-ND	14-Bit 200kSPS ADC, Serial/Parallel I/O	28-Dip	16.75	11.13	8.40
LTC1418CN#PBF-ND	14-Bit 200kSPS ADC, Serial/Parallel I/O*	28-Dip	16.75	11.13	8.40
LTC1419ACSW#PBF-ND	14-Bit 800kSPS Sampling ADC*	28-SOIC	53.50	35.53	26.75
LTC1419CG-ND	14-Bit 800kSPS Sampling ADC	28-SSOP	32.50	21.58	16.25
LTC1419CSW#PBF-ND	14-Bit 800kSPS Sampling ADC*	28-SOIC	32.25	21.42	16.13
LTC1419IG#PBF-ND	14-Bit 800kSPS Sampling ADC, Ind. Temp*	28-SSOP	36.25	24.07	18.15
LTC1594CS#PBF-ND	4-Channel, 12-Bit 5V, Sampling Serial ADC*	16-SOIC	11.25	7.47	6.00
LTC1594IS#PBF-ND	4-Channel, 12-Bit 5V, Sampling Serial ADC*	16-SOIC	13.00	8.64	6.95
LTC1598CG-ND	8-Channel, 12-Bit 5V, Sampling Serial ADC	24-SSOP	11.50	7.64	6.20
LTC1598CG#PBF-ND	8-Channel, 12-Bit 5V, Sampling Serial ADC*	24-SSOP	11.50	7.64	6.20
LTC1598LCG#PBF-ND	8-Channel, 12-Bit 5V, Sampling Serial ADC*	24-SSOP	11.63	7.75	6.45
LTC1603CG#PBF-ND	16-Bit Sampling ADC with Shutdown*	36-SSOP	20.38	13.60	11.30
LTC1604AIG#PBF-ND	16-Bit Sampling ADC with Shutdown*	36-SSOP	63.13	41.92	31.57
LTC1604CG#PBF-ND	16-Bit Sampling ADC with Shutdown*	36-SSOP	44.50	29.55	22.25
LTC1605ACG#PBF-ND	16-Bit, 100kSPS Sampling ADC*	28-SSOP	49.63	32.96	24.85
LTC1605AISW#PBF-ND	16-Bit, 100kSPS Sampling ADC, Ind. Temp*	28-SOIC	51.00	33.87	25.50
LTC1605CN#PBF-ND	16-Bit, 100kSPS Sampling ADC*	28-Dip	36.13	23.99	18.07
LTC1605CSW#PBF-ND	16-Bit, 100kSPS Sampling ADC*	28-SOIC	36.13	23.99	18.07
LTC1605IN#PBF-ND	16-Bit, 100kSPS Sampling ADC, Ind. Temp*	28-Dip	38.25	25.40	19.15
LTC1605ISW#PBF-ND	16-Bit, 100kSPS Sampling ADC, Ind. Temp*	28-SOIC	38.25	25.40	19.15
LTC1605-1CG#PBF-ND	16-Bit, 100kSPS Sampling ADC*	28-SSOP	36.88	24.49	18.71
LTC1605-2CG#PBF-ND	16-Bit, 100kSPS Sampling ADC*	28-SSOP	36.88	24.49	18.71

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1606ACG#PBF-ND	16-Bit, 250kSPS Sampling ADC*	28-SSOP	54.13	35.94	27.10
LTC1606ACSW#PBF-ND	16-Bit, 250kSPS Sampling ADC*	28-SOIC	54.13	35.94	27.10
LTC1608ACG#PBF-ND	16-Bit, 500kSPS Sampling ADC*	36-SSOP	49.13	32.62	25.20
LTC1608CG#PBF-ND	16-Bit, 500kSPS Sampling ADC*	36-SSOP	35.00	23.24	17.50
LTC1609CSW#PBF-ND	16-Bit, 200kSPS Serial Sampling ADC*	20-SOIC	31.75	21.09	15.88
LTC1609IG#PBF-ND	16-Bit, 200kSPS Sampling ADC, Ind. Temp*	28-SSOP	35.00	23.24	17.50
LTC1609ISW#PBF-ND	16-Bit, 200kSPS Serial Sampling ADC*	20-SOIC	35.00	23.24	17.50
LTC1851CFW-ND	8-Channel, 12-Bit, 1.25MSPS Sampling ADC	48-TSSOP	14.63	9.72	7.85
LTC1851CFW#PBF-ND	8-Ch., 12-Bit, 1.25MSPS Sampling ADC*	48-TSSOP	14.63	9.72	7.85
LTC1853CFW#PBF-ND	8-Ch., 12-Bit, 400kSPS, Low Power ADC*	48-TSSOP	14.63	9.72	7.85
LTC1856CG#PBF-ND	8-Ch., 16-Bit, 100kSPS, Low Power ADC*	28-SSOP	26.55	18.96	15.62
LTC1857CG#PBF-ND	8-Ch., 12-Bit, 100kSPS, LP, ADC*	28-TSSOP	17.90	11.93	10.23
LTC1858CG#PBF-ND	8-Ch., 14-Bit, 100kSPS, LP, ADC*	28-TSSOP	25.90	17.27	14.80
LTC1859CG#PBF-ND	8-Ch., 16-Bit, 100kSPS, LP, ADC*	28-TSSOP	35.00	23.33	20.00
LTC1860CMS8#PBF-ND	1-Channel, 12-Bit, 250kSPS ADC*	8-MSOP	4.88	3.24	2.65
LTC1860CS8#PBF-ND	1-Channel, 12-Bit, 250kSPS ADC*	8-SOIC	4.75	3.16	2.60
LTC1861CMS-ND	2-Channel, 12-Bit, 250kSPS ADC	10-MSOP	6.25	4.15	3.50
LTC1861CMS#PBF-ND	2-Channel, 12-Bit, 250kSPS ADC*	10-MSOP	6.25	4.15	3.50
LTC1861CS8#PBF-ND	2-Channel, 12-Bit, 250kSPS ADC*	8-SOIC	5.88	3.91	3.25
LTC1861LCMS#PBF-ND	3V, 2-Channel, 12-Bit, 150kSPS ADC*	10-MSOP	5.63	3.74	3.05
LTC1863LCGN#PBF-ND	3V, 8-Channel, 12-Bit, 175kSPS ADC*	16-SSOP	7.63	5.45	4.49
LTC1864ACMS8#PBF-ND	1-Channel, 16-Bit, 250kSPS ADC*	8-MSOP	15.00	9.96	8.05
LTC1864ACS8#PBF-ND	1-Channel, 16-Bit, 250kSPS ADC*	8-SOIC	14.38	9.55	7.70
LTC1864AIMS8#PBF-ND	1-Channel, 16-Bit, 250kSPS ADC*	8-MSOP	15.63	10.38	8.40
LTC1864CMS8#PBF-ND	1-Channel, 16-Bit, 250kSPS ADC*	8-MSOP	12.88	8.55	6.90
LTC1864CS8#PBF-ND	1-Channel, 16-Bit, 250kSPS ADC*	8-SOIC	12.38	8.22	6.65
LTC1865ACMS#PBF-ND	2-Channel, 16-Bit, 250kSPS ADC*	10-MSOP	15.38	10.21	8.55
LTC1865ACS8#PBF-ND	2-Channel, 16-Bit, 250kSPS ADC*	8-SOIC	14.75	9.80	8.20
LTC1865CMS#PBF-ND	2-Channel, 16-Bit, 250kSPS ADC*	10-MSOP	13.38	8.89	7.45
LTC1865CS8#PBF-ND	2-Channel, 16-Bit, 250kSPS ADC*	8-SOIC	12.88	8.55	7.15
LTC1865LAIMS#PBF-ND	2-Channel, 16-Bit, 150kSPS ADC* ***NEW!***	10-MSOP	16.00	10.63	8.90
LTC1865LCMS#PBF-ND	2-Channel, 16-Bit, 150kSPS ADC*	10-MSOP	13.38	8.89	7.45
LTC1867ACGN#PBF-ND	8-Channel, 16-Bit, 200kSPS ADC*	16-SSOP	18.38	12.25	10.50
LTC1867CGN#PBF-ND	8-Channel, 16-Bit, 200kSPS ADC*	16-SSOP	15.50	10.35	8.85
LTC1867LACGN#PBF-ND	3V, 8-Channel, 16-Bit, 175kSPS ADC*	16-SSOP	18.38	13.13	10.81
LTC1867LCGN#PBF-ND	3V, 8-Channel, 16-Bit, 175kSPS ADC*	16-SSOP	15.50	11.07	9.12
LTC2262CUJ-14#PBF-ND	1.8V, 150MSPS 14-Bit ADC* ***NEW!***	40-QFN	121.13	81.43	69.21
LTC2262IUJ-14#PBF-ND	1.8V, 150MSPS 14-Bit ADC* ***NEW!***	40-QFN	145.35	97.71	83.06
LTC2263CUJ-12#PBF-ND	1.8V, 25MSPS 12-Bit ADC* ***NEW!***	40-QFN	30.28	20.36	17.30
LTC2263CUJ-14#PBF-ND	1.8V, 25MSPS 14-Bit ADC* ***NEW!***	40-QFN	46.23	31.07	26.41
LTC2263IUJ-12#PBF-ND	1.8V, 25MSPS 12-Bit ADC* ***NEW!***	40-QFN	36.35	24.43	20.77
LTC2263IUJ-14#PBF-ND	1.8V, 25MSPS 14-Bit ADC* ***NEW!***	40-QFN	55.48	37.29	31.69
LTC2264CUJ-12#PBF-ND	1.8V, 40MSPS 12-Bit ADC* ***NEW!***	40-QFN	31.63	21.26	18.07
LTC2264CUJ-14#PBF-ND	1.8V, 40MSPS 14-Bit ADC* ***NEW!***	40-QFN	56.90	38.25	32.51
LTC2264IUJ-12#PBF-ND	1.8V, 40MSPS 12-Bit ADC* ***NEW!***	40-QFN	37.95	25.51	21.68
LTC2264IUJ-14#PBF-ND	1.8V, 40MSPS 14-Bit ADC* ***NEW!***	40-QFN	68.28	45.90	39.02
LTC2265CUJ-12#PBF-ND	1.8V, 65MSPS 12-Bit ADC* ***NEW!***	40-QFN	44.88	30.17	25.65
LTC2265CUJ-14#PBF-ND	1.8V, 65MSPS 14-Bit ADC* ***NEW!***	40-QFN	80.80	54.32	46.18
LTC2265IUJ-12#PBF-ND	1.8V, 65MSPS 12-Bit ADC* ***NEW!***	40-QFN	53.85	36.21	30.78
LTC2265IUJ-14#PBF-ND	1.8V, 65MSPS 14-Bit ADC* ***NEW!***	40-QFN	96.98	65.19	55.41
LTC2272CUJ#PBF-ND	16-Bit, 65MSPS Serial Output ADC*	40-QFN	110.50	74.29	63.15
LTC2272IUJ#PBF-ND	16-Bit, 65MSPS Serial Output ADC* ***NEW!***	40-QFN	132.60	89.14	75.77
LTC2273CUJ#PBF-ND	16-Bit, 80MSPS Serial Output ADC*	40-QFN	123.25	82.86	70.43
LTC2273IUJ#PBF-ND	16-Bit, 80MSPS Serial Output ADC*	40-QFN	147.90	99.44	84.52
LTC2274CUJ#PBF-ND	16-Bit, 105MSPS Serial Output ADC*	40-QFN	144.50	97.14	82.58
LTC2274IUJ#PBF-ND	16-Bit, 105MSPS Serial Output ADC*	40-QFN	173.40	116.57	99.09
LTC2301CDE#PBF-ND	1-Channel, 12-Bit ADC*	12-DFN	4.15	2.79	2.37
LTC2302IDD#PBF-ND	1-Channel, 12-Bit, 500kSPS ADC*	10-DFN	5.35	3.60	3.06
LTC2305IMS#PBF-ND	2-Channel, 12-Bit ADC*	12-MSOP	5.35	3.60	3.06
LTC2306CDD#PBF-ND	2-Channel, 12-Bit, 500kSPS ADC*	10-DFN	4.48	3.00	2.55
LTC2306IDD#PBF-ND	2-Channel, 12-Bit, 500kSPS ADC*	10-DFN	5.35	3.60	3.06
LTC2360HS6#TRMPBFCT-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-6	3.86	3.45	3.11
LTC2360HS6#TRMPBFTR-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-6	960.00/500		
LTC2360HTS8#TRMPBFCT-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-8	4.34	3.88	3.49
LTC2360HTS8#TRMPBFTR-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-8	1075.00/500		
LTC2360IS6#TRMPBFCT-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-6	3.53	3.15	2.84
LTC2360IS6#TRMPBFTR-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-6	875.00/500		
LTC2360ITS8#TRMPBFCT-ND	12-Bit, 100kSPS Serial ADC*	TSOT-23-8	3.95	3.53	3.18
LTC2361CS6#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-6	3.81	3.40	3.06
LTC2361CTS8#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-8	4.17	3.73	3.36
LTC2361HS6#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-6	4.79	4.28	3.85
LTC2361HTS8#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-8	5.24	4.68	4.21
LTC2361IS6#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-6	4.37	3.90	3.51
LTC2361IS6#TRMPBFTR-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-6	1080.00/500		
LTC2361ITS8#TRMPBFCT-ND	12-Bit, 250kSPS Serial ADC*	TSOT-23-8	4.76	4.25	3.83
LTC2362CS6#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-6	4.51	4.03	3.63
LTC2362CTS8#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-8	4.87	4.35	3.92
LTC2362HS6#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-6	5.68	5.08	4.57
LTC2362HTS8#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-8	6.13	5.48	4.93
LTC2362IS6#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-6	5.18	4.63	4.17
LTC2362ITS8#TRMPBFCT-ND	12-Bit, 500kSPS Serial ADC*	TSOT-23-8	5.60	5.00	4.50
LTC2365CS6#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-6	5.24	4.68	4.21
LTC2365CS6#TRMPBFTR-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-6	1305.00/500		
LTC2365CTS8#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-8	5.60	5.00	4.50
LTC2365CTS8#TRMPBFTR-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-8	1395.00/500		
LTC2365HS6#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-6	6.58	5.88	5.29
LTC2365HTS8#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-8	7.03	6.28	5.65
LTC2365IS6#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-6	5.99	5.35	4.82
LTC2365ITS8#TRMPBFCT-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-8	6.41	5.73	5.16
LTC2365ITS8#TRMPBFTR-ND	12-Bit, 1MSPS Serial Sampling ADC*	TSOT-23-8	1605.00/500		
LTC2366CS6#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-6	11.90	10.63	9.57
LTC2366CS6#TRMPBFTR-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-6	3005.01/500		
LTC2366CTS8#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-8	12.26	10.95	9.86
LTC2366CTS8#TRMPBFTR-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-8	3095.00/500		
LTC2366HS6#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-6	14.98	13.38	12.04
LTC2366HTS8#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-8	15.46	13.80	12.42
LTC2366IS6#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-6	13.69	12.23	11.01
LTC2366ITS8#TRMPBFCT-ND	12-Bit, 3MSPS Serial Sampling ADC*	TSOT-23-8	14.08	12.58	11.32
LTC2393CLX-16#PBF-ND	16-Bit, 1MSPS Serial/Parallel ADC* ***NEW!***	48-LQFP	43.88	29.50	25.08
LTC2393CUK-16#PBF-ND	16-Bit, 1MSPS Serial/Parallel ADC* ***NEW!***	48-QFN	43.88	29.50	25.08
LTC2393HLX-16#PBF-ND	16-Bit, 1MSPS Serial/Parallel ADC* ***NEW!***	48-LQFP	60.55	40.71	34.60
LTC2393ILX-16#PBF-ND	16-Bit, 1MSPS Serial/Parallel ADC* ***NEW!***	48-LQFP	50.48	33.93	28.84
LTC2393IUK-16#PBF-ND	16-Bit, 1MSPS Serial/Parallel ADC* ***NEW!***	48-QFN	50.48	33.93	28.84

* *RoHS Compliant*

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(Continued)

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
	Delta Sigma ADC				
LTC2400CS8#PBF-ND	24-Bit Micropower ADC*	8-SOIC	10.63	7.10	6.05
LTC2400IS8#PBF-ND	24-Bit Micropower ADC, Ind. Temp.*	8-SOIC	12.13	8.10	6.95
LTC2401CMS#PBF-ND	24-Bit, 1-Channel µPwr Delta Sigma ADC*	10-MSOP	10.25	6.81	5.65
LTC2402CMS#PBF-ND	24-Bit, 2-Channel µPwr Delta Sigma ADC*	10-MSOP	10.88	7.23	5.95
LTC2408CG#PBF-ND	24-Bit, 8-Channel µPwr ADC*	28-SSOP	12.13	8.10	6.95
LTC2410CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC*	16-SSOP	10.63	7.10	6.05
LTC2411CMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC*	10-MSOP	10.63	7.10	6.05
LTC2411CMSTR-ND	24-Bit, No Latency Delta Sigma ADC	10-MSOP	15480.89/2,500		
LTC2411IMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC*	10-MSOP	12.13	8.10	6.95
LTC2411IMSTR-ND	24-Bit, No Latency Delta Sigma ADC	10-MSOP	17733.25/2,500		
LTC2412CGN-ND	24-Bit, No Latency Delta Sigma ADC	16-SSOP	9.50	6.31	5.05
LTC2412CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC*	16-SSOP	9.50	6.31	5.05
LTC2413CGN#PBF-ND	24-Bit, Micropower ADC*	16-SSOP	10.63	7.10	6.05
LTC2413IGN#PBF-ND	24-Bit, Micropower ADC*	16-SSOP	12.13	8.10	6.95
LTC2414CGN#PBF-ND	24-Bit, 8-Ch. No Latency Delta Sigma ADC*	28-SSOP	12.13	8.10	6.95
LTC2415CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC*	16-SSOP	10.63	7.10	6.05
LTC2415-1CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC*	16-SSOP	10.63	7.10	6.05
LTC2415IGN#PBF-ND	24-Bit No Latency Delta Sigma ADC*	16-SSOP	12.13	8.10	6.95
LTC2418CGN#PBF-ND	24-Bit, 16-Ch. No Latency Delta Sigma ADC*	28-SSOP	13.50	9.00	7.70
LTC2418IGN#PBF-ND	24-Bit, 16-Ch. No Latency Delta Sigma ADC*	28-SSOP	14.88	9.90	8.50
LTC2420CS8#PBF-ND	20-Bit, µPwr No Latency Delta Sigma ADC*	8-SOIC	8.25	5.48	4.50
LTC2420IS8#PBF-ND	20-Bit, µPwr No Latency Delta Sigma ADC*	8-SOIC	9.13	6.06	5.00
LTC2421IMS#PBF-ND	20-Bit, 1-Channel µPwr Delta Sigma ADC*	10-MSOP	9.50	6.31	5.25
LTC2422CMS#PBF-ND	20-Bit, 2-Channel µPwr Delta Sigma ADC*	10-MSOP	8.75	5.81	4.80
LTC2422IMS#PBF-ND	20-Bit, 2-Channel µPwr Delta Sigma ADC*	10-MSOP	9.75	6.48	5.40
LTC2424CG#PBF-ND	20-Bit, 4-Channel µPwr Delta Sigma ADC*	28-SSOP	9.25	6.15	5.10
LTC2428CG#PBF-ND	20-Bit, 8-Channel µPwr Delta Sigma ADC*	28-MSOP	10.13	6.73	5.60
LTC2431CMS#PBF-ND	20-Bit Delta Sigma ADC*	10-MSOP	7.38	4.90	3.95
LTC2433-1CMS#PBF-ND	16-Bit No Latency Delta Sigma ADC*	10-MSOP	3.88	2.60	2.20
LTC2436-1CGN#PBF-ND	16-Bit No Latency Delta Sigma ADC*	16-SSOP	4.88	3.24	2.60
LTC2440CGN#PBF-ND	24-Bit, Differential Delta Sigma ADC*	16-SSOP	11.13	7.39	6.20
LTC2440IGN#PBF-ND	24-Bit, Differential Delta Sigma ADC*	16-SSOP	12.63	8.39	6.95
LTC2442CG#PBF-ND	24-Bit, 4-Channel Delta Sigma ADC*	36-SSOP	14.90	10.64	8.76
LTC2442IG#PBF-ND	24-Bit, 4-Channel Delta Sigma ADC*	36-SSOP	17.88	12.77	10.51
LTC2444CUHF#PBF-ND	24-Bit, 8-Ch./16-Ch. Delta Sigma ADC*	38-QFN	12.88	8.55	6.85
LTC2445CUHF#PBF-ND	24-Bit, 8-Ch./16-Ch. Delta Sigma ADC*	38-QFN	12.88	8.55	6.85
LTC2445IUHF#PBF-ND	24-Bit, 8-Ch. Delta Sigma ADC* ***NEW!***	38-QFN	14.88	9.88	7.95
LTC2446IUHF#PBF-ND	24-Bit, 8-Channel Delta Sigma ADC*	38-QFN	16.50	10.96	8.80
LTC2447IUHF#PBF-ND	24-Bit, 8-Channel Delta Sigma ADC*	38-QFN	16.50	10.96	8.80
LTC2448CUHF#PBF-ND	24-Bit, 8-Ch./16-Ch. Delta Sigma ADC*	38-QFN	14.25	9.47	7.60
LTC2449CUHF#PBF-ND	24-Bit, 8-Ch./16-Ch. Delta Sigma ADC*	38-QFN	14.25	9.47	7.60
LTC2450CDC#TRMPBFCT-ND	16-Bit Delta Sigma ADC*	6-DFN	2.74	2.45	2.21
LTC2450CDC#TRMPBFTR-ND	16-Bit Delta Sigma ADC*	6-DFN	870.00/500		
LTC2450CDC-1#TRMPBFCT-ND	16-Bit Delta Sigma ADC*	6-DFN	2.74	2.45	2.21
LTC2450CDC-1#TRMPBFTR-ND	16-Bit Delta Sigma ADC*	6-DFN	870.00/500		
LTC2450IDC#TRMPBFCT-ND	16-Bit Delta Sigma ADC*	6-DFN	3.28	2.93	2.64
LTC2450IDC#TRMPBFTR-ND	16-Bit Delta Sigma ADC*	6-DFN	1040.00/500		
LTC2450IDC-1#TRMPBFCT-ND	16-Bit Delta Sigma ADC*	6-DFN	3.28	2.93	2.64
LTC2450IDC-1#TRMPBFTR-ND	16-Bit Delta Sigma ADC*	6-DFN	1040.00/500		
LTC2451CDDB#TRMPBFCT-ND	16-Bit Delta Sigma ADC with I^2C Interface*	8-DFN	2.86	2.55	2.30
LTC2451CDDB#TRMPBFTR-ND	16-Bit Delta Sigma ADC with I^2C Interface*	8-DFN	880.00/500		
LTC2451CTS8#TRMPBFCT-ND	16-Bit Delta Sigma ADC with I^2C Interface*	TSOT-23-8	2.86	2.55	2.30
LTC2451CTS8#TRMPBFTR-ND	16-Bit Delta Sigma ADC with I^2C Interface*	TSOT-23-8	880.00/500		
LTC2451IDDB#TRMPBFCT-ND	16-Bit Delta Sigma ADC with I^2C Interface*	8-DFN	3.39	3.03	2.73
LTC2451ITS8#TRMPBFCT-ND	16-Bit Delta Sigma ADC with I^2C Interface*	TSOT-23-8	3.39	3.03	2.73
LTC2451ITS8#TRMPBFTR-ND	16-Bit Delta Sigma ADC with I^2C Interface*	TSOT-23-8	1050.00/500		
LTC2452CDDB#TRMPBFCT-ND	16-Bit Delta Sigma ADC with SPI Interface*	8-DFN	3.08	2.75	2.48
LTC2452CTS8#TRMPBFCT-ND	16-Bit Delta Sigma ADC with SPI Interface*	TSOT-23-8	3.08	2.75	2.48
LTC2452CTS8#TRMPBFTR-ND	16-Bit Delta Sigma ADC with SPI Interface*	TSOT-23-8	955.00/500		
LTC2452IDDB#TRMPBFCT-ND	16-Bit Delta Sigma ADC with SPI Interface*	8-DFN	3.70	3.30	2.97
LTC2452ITS8#TRMPBFCT-ND	16-Bit Delta Sigma ADC with SPI Interface*	TSOT-23-8	3.70	3.30	2.97
LTC2452ITS8#TRMPBFTR-ND	16-Bit Delta Sigma ADC with SPI Interface*	TSOT-23-8	1140.00/500		
LTC2453CDDB#TRMPBFCT-ND	16-Bit Differential Delta Sigma ADC*	8-DFN	3.00	2.68	2.41
LTC2453CTS8#TRMPBFCT-ND	16-Bit Differential Delta Sigma ADC*	TSOT-23-8	3.00	2.68	2.41
LTC2453CTS8#TRMPBFTR-ND	16-Bit Differential Delta Sigma ADC*	TSOT-23-8	955.00/500		
LTC2453IDDB#TRMPBFCT-ND	16-Bit Differential Delta Sigma ADC*	8-DFN	3.56	3.18	2.86
LTC2453ITS8#TRMPBFCT-ND	16-Bit Differential Delta Sigma ADC*	TSOT-23-8	3.56	3.18	2.86
LTC2453ITS8#TRMPBFTR-ND	16-Bit Differential Delta Sigma ADC*	TSOT-23-8	1140.00/500		
LTC2460CDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	3.50	2.36	2.00
LTC2460CMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	3.50	2.36	2.00
LTC2460IDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	4.05	2.71	2.31
LTC2460IMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	4.05	2.71	2.31
LTC2461CMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	3.50	2.36	2.00
LTC2461IDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	4.05	2.71	2.31
LTC2461IMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	4.05	2.71	2.31
LTC2462CDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	3.50	2.36	2.00
LTC2462CMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	3.50	2.36	2.00
LTC2462IDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	4.05	2.71	2.31
LTC2462IMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	4.05	2.71	2.31
LTC2463CMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	3.50	2.36	2.00
LTC2463IDD#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-DFN	4.05	2.71	2.31
LTC2463IMS#PBF-ND	16-Bit Delta Sigma ADC with Ref.* ***NEW!***	12-MSOP	4.05	2.71	2.31
LTC2470CDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	3.63	2.43	2.06
LTC2470CMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	3.63	2.43	2.06
LTC2470IDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	4.15	2.79	2.37
LTC2470IMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	4.15	2.79	2.37
LTC2472CDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	3.63	2.43	2.06
LTC2472CMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	3.63	2.43	2.06
LTC2472IDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	4.15	2.79	2.37
LTC2472IMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	4.15	2.79	2.37
LTC2473CDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	3.63	2.43	2.06
LTC2473CMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	3.63	2.43	2.06
LTC2473IDD#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-DFN	4.15	2.79	2.37
LTC2473IMS#PBF-ND	16-Bit Delta Sigma ADC* ***NEW!***	12-MSOP	4.15	2.79	2.37
LTC2480CDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.70	2.64	2.18
LTC2480IDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	4.45	3.18	2.62
LTC2481CDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.70	2.64	2.18
LTC2481IDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	4.45	3.18	2.62
LTC2482CDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.30	2.36	1.94
LTC2482IDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.95	2.82	2.32
LTC2483CDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.30	2.36	1.94
LTC2483IDD#PBF-ND	16-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	3.95	2.82	2.32
LTC2484CDD#PBF-ND	24-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	4.90	3.50	2.88
LTC2484IDD#PBF-ND	24-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	5.88	4.20	3.46
LTC2485CDD#PBF-ND	24-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	4.90	3.50	2.88
LTC2485IDD#PBF-ND	24-Bit, Delta Sigma ADC with Easy Drive*	10-DFN	5.88	4.20	3.46

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
LTC2486CDE#PBF-ND	16-Bit, 2/4-Ch. Delta Sigma ADC with PGA*	14-DFN	4.83	3.44	2.83
LTC2486IDE#PBF-ND	16-Bit, 2/4-Ch. Delta Sigma ADC with PGA*	14-DFN	5.78	4.13	3.40
LTC2487IDE#PBF-ND	16-Bit, 2/4-Ch. Delta Sigma ADC with PGA*	14-DFN	5.78	4.13	3.40
LTC2488IDE#PBF-ND	16-Bit, 2/4-Channel Delta Sigma ADC*	14-DFN	5.30	3.78	3.11
LTC2489IDE#PBF-ND	16-Bit, 2/4-Channel Delta Sigma ADC*	14-DFN	5.30	3.78	3.11
LTC2492CDE#PBF-ND	24-Bit, 2/4-Channel Delta Sigma ADC*	14-DFN	6.05	4.32	3.56
LTC2493IDE#PBF-ND	24-Bit, 2/4-Channel Delta Sigma ADC*	14-DFN	7.25	5.18	4.26
LTC2494IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	7.00	5.01	4.12
LTC2495IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	7.00	5.01	4.12
LTC2496CUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	5.43	3.88	3.19
LTC2496IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	6.53	4.66	3.84
LTC2497CUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	5.43	3.88	3.19
LTC2498CUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	7.08	5.05	4.16
LTC2498IUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC*	38-QFN	8.48	6.05	4.99
LTC2499CUHF#PBF-ND	24-Bit, 8/16-Ch. Delta Sigma ADC*	38-QFN	7.08	5.05	4.16
LTC2499IUHF#PBF-ND	24-Bit, 8/16-Ch. Delta Sigma ADC*	38-QFN	8.48	6.05	4.99
	High Speed ADC				
LTC1402CGN#PBF-ND	12-Bit, 2.2MSPS Sampling ADC*	16-SSOP	14.75	9.80	7.40
LTC1405IGN#PBF-ND	12-Bit, 5MSPS Sampling ADC*	28-SSOP	13.75	9.13	6.90
LTC1406IGN-ND	8-Bit, 20MSPS Sampling ADC	24-SSOP	7.00	4.65	3.70
LTC1406IGN#PBF-ND	8-Bit, 20MSPS Sampling ADC*	24-SSOP	7.00	4.65	3.70
LTC1420CGN#PBF-ND	12-Bit, 10MSPS Sampling ADC*	28-SSOP	12.50	8.30	6.25
LTC1420IGN#PBF-ND	12-Bit, 10MSPS Sampling ADC*	28-SSOP	13.75	9.13	6.90
LTC1740CG-ND	14-Bit, 6MSPS Sampling ADC	36-SSOP	34.38	22.83	18.36
LTC1741CFW-ND	12-Bit, 65MSPS Low Noise ADC	48-TSSOP	27.13	18.02	13.57
LTC1744CFW#PBF-ND	14-Bit, 50MSPS ADC*	48-TSSOP	53.13	35.28	28.36
LTC1745CFW-ND	12-Bit, 25MSPS Low Noise ADC	48-TSSOP	18.63	12.37	9.95
LTC1746CFW#PBF-ND	14-Bit, 25MSPS Low Power ADC*	48-TSSOP	25.50	16.94	13.60
LTC1746IFW#PBF-ND	14-Bit, 25MSPS Low Power ADC*	48-TSSOP	30.00	19.92	16.00
LTC1748CFW-ND	14-Bit, 80MSPS Low Noise ADC	48-TSSOP	68.63	45.57	34.32
LTC1850CFW#PBF-ND	8-Ch., 10-Bit, 1.25MSPS Sampling ADC*	48-TSSOP	12.13	8.06	6.50
LTC2170CUKG-12#PBF-ND	12-Bit, 25MSPS Quad ADC* ***NEW!***	52-QFN	45.43	30.54	25.96
LTC2170CUKG-14#PBF-ND	14-Bit, 25MSPS Quad ADC* ***NEW!***	52-QFN	69.33	46.61	39.63
LTC2170IUKG-12#PBF-ND	12-Bit, 25MSPS Quad ADC* ***NEW!***	52-QFN	54.50	36.64	31.15
LTC2170IUKG-14#PBF-ND	14-Bit, 25MSPS Quad ADC* ***NEW!***	52-QFN	83.20	55.93	47.55
LTC2171CUKG-12#PBF-ND	12-Bit, 40MSPS Quad ADC* ***NEW!***	52-QFN	47.43	31.89	27.10
LTC2171CUKG-14#PBF-ND	14-Bit, 40MSPS Quad ADC* ***NEW!***	52-QFN	85.35	57.38	48.77
LTC2171IUKG-12#PBF-ND	12-Bit, 40MSPS Quad ADC* ***NEW!***	52-QFN	56.93	38.26	32.52
LTC2171IUKG-14#PBF-ND	14-Bit, 40MSPS Quad ADC* ***NEW!***	52-QFN	102.43	68.85	58.52
LTC2172CUKG-12#PBF-ND	12-Bit, 65MSPS Quad ADC* ***NEW!***	52-QFN	67.33	45.26	38.47
LTC2172CUKG-14#PBF-ND	14-Bit, 65MSPS Quad ADC* ***NEW!***	52-QFN	121.20	81.48	69.26
LTC2172IUKG-12#PBF-ND	12-Bit, 65MSPS Quad ADC* ***NEW!***	52-QFN	80.78	54.31	46.16
LTC2172IUKG-14#PBF-ND	14-Bit, 65MSPS Quad ADC* ***NEW!***	52-QFN	145.45	97.79	83.12
LTC2173CUKG-12#PBF-ND	12-Bit, 80MSPS Quad ADC* ***NEW!***	52-QFN	94.20	63.32	53.82
LTC2173IUKG-12#PBF-ND	12-Bit, 80MSPS Quad ADC* ***NEW!***	52-QFN	113.03	75.99	64.60
LTC2174IUKG-14#PBF-ND	14-Bit, 105MSPS Quad ADC* ***NEW!***	52-QFN	252.45	169.71	144.26
LTC2175CUKG-12#PBF-ND	12-Bit, 125MSPS Quad ADC* ***NEW!***	52-QFN	145.83	98.04	83.34
LTC2175CUKG-14#PBF-ND	14-Bit, 125MSPS Quad ADC* ***NEW!***	52-QFN	248.63	167.14	142.08
LTC2175IUKG-14#PBF-ND	14-Bit, 125MSPS Quad ADC* ***NEW!***	52-QFN	298.35	200.57	170.50
LTC2202CUK#PBF-ND	16-Bit, 10MSPS ADC*	48-QFN	50.00	35.71	29.41
LTC2202IUK#PBF-ND	16-Bit, 10MSPS ADC*	48-QFN	60.00	42.86	35.30
LTC2203CUK#PBF-ND	16-Bit, 25MSPS ADC*	48-QFN	60.00	42.86	35.30
LTC2203IUK#PBF-ND	16-Bit, 25MSPS ADC*	48-QFN	72.00	51.43	42.36
LTC2204IUK#PBF-ND	16-Bit, 40MSPS ADC*	48-QFN	84.00	60.00	49.42
LTC2205CUK#PBF-ND	16-Bit, 65MSPS ADC*	48-QFN	86.65	61.89	50.97
LTC2205IUK#PBF-ND	16-Bit, 65MSPS ADC*	48-QFN	104.00	74.29	61.18
LTC2206CUK#PBF-ND	16-Bit, 80MSPS ADC*	48-QFN	96.65	69.04	56.85
LTC2206CUK-14#PBF-ND	14-Bit, 80MSPS ADC*	48-QFN	66.00	47.41	38.82
LTC2206IUK-14#PBF-ND	14-Bit, 80MSPS ADC*	48-QFN	79.20	56.57	46.59
LTC2207CUK#PBF-ND	16-Bit, 105MSPS ADC*	48-QFN	113.35	80.96	66.69
LTC2207IUK#PBF-ND	16-Bit, 105MSPS ADC*	48-QFN	136.00	97.14	80.01
LTC2208CUP#PBF-ND	16-Bit, 130MSPS ADC*	64-QFN	130.00	92.86	76.48
LTC2208CUP-14#PBF-ND	14-Bit, 130MSPS ADC*	64-QFN	110.00	78.57	64.71
LTC2208IUP#PBF-ND	16-Bit, 130MSPS ADC*	64-QFN	156.00	111.43	91.76
LTC2209CUP#PBF-ND	16-Bit, 160MSPS ADC*	64-QFN	145.00	103.57	85.30
LTC2209IUP#PBF-ND	16-Bit, 160MSPS ADC	64-QFN	174.00	124.30	102.36
LTC2216CUP#PBF-ND	16-Bit, 80MSPS ADC*	64-QFN	123.25	82.86	70.43
LTC2217CUP#PBF-ND	16-Bit, 105MSPS, Low Noise ADC*	64-QFN	144.50	97.14	82.58
LTC2220CUP#PBF-ND	12-Bit, 185MSPS ADC*	64-QFN	81.98	54.65	46.84
LTC2220CUP-1#PBF-ND	12-Bit, 185MSPS ADC*	64-QFN	101.63	67.75	58.08
LTC2220IUP-1#PBF-ND	12-Bit, 185MSPS ADC*	64-QFN	122.38	81.58	69.93
LTC2222CUK#PBF-ND	12-Bit, 105MSPS ADC*	48-QFN	62.08	41.38	35.47
LTC2222IUK#PBF-ND	12-Bit, 105MSPS ADC*	48-QFN	77.60	51.73	44.34
LTC2223CUK#PBF-ND	12-Bit, 80MSPS ADC*	48-QFN	34.25	22.83	19.57
LTC2223IUK#PBF-ND	12-Bit, 80MSPS ADC*	48-QFN	41.00	27.33	23.43
LTC2224CUK#PBF-ND	12-Bit, 135MSPS ADC*	48-QFN	70.38	46.92	40.21
LTC2225CUH#PBF-ND	12-Bit, 10MSPS Low Power 3V ADC*	32-QFN	9.25	6.17	5.29
LTC2225IUH#PBF-ND	12-Bit, 10MSPS Low Power 3V ADC*	32-QFN	11.10	7.40	6.34
LTC2226CUH#PBF-ND	12-Bit, 25MSPS Low Power 3V ADC*	32-QFN	15.20	10.13	8.69
LTC2226IUH#PBF-ND	12-Bit, 25MSPS Low Power 3V ADC*	32-QFN	18.23	12.15	10.41
LTC2227CUH#PBF-ND	12-Bit, 40MSPS Low Power 3V ADC*	32-QFN	16.05	10.70	9.17
LTC2227IUH#PBF-ND	12-Bit, 40MSPS Low Power 3V ADC*	32-QFN	19.25	12.83	11.00
LTC2228CUH#PBF-ND	12-Bit, 65MSPS Low Power 3V ADC*	32-QFN	24.78	16.52	14.16
LTC2228IUH#PBF-ND	12-Bit, 65MSPS Low Power 3V ADC*	32-QFN	29.73	19.82	16.99
LTC2229CUH#PBF-ND	12-Bit, 80MSPS Low Power 3V ADC*	32-QFN	34.25	22.83	19.57
LTC2229IUH#PBF-ND	12-Bit, 80MSPS Low Power 3V ADC*	32-QFN	41.00	27.33	23.43
LTC2231CUP#PBF-ND	10-Bit, 135MSPS Low Power 3.3V ADC*	64-QFN	41.50	27.67	23.71
LTC2232CUK#PBF-ND	10-Bit, 105MSPS Low Power 3.3V ADC*	48-QFN	17.13	11.42	9.79
LTC2232IUK#PBF-ND	10-Bit, 105MSPS Low Power 3.3V ADC*	48-QFN	20.50	13.67	11.71
LTC2234IUK#PBF-ND	10-Bit, 135MSPS Low Power 3.3V ADC*	48-QFN	49.80	33.20	28.46
LTC2236CUH#PBF-ND	10-Bit, 25MSPS Low Noise 3V ADC*	32-QFN	7.00	4.67	4.00
LTC2236IUH#PBF-ND	10-Bit, 25MSPS Low Noise 3V ADC*	32-QFN	8.40	5.60	4.80
LTC2237IUH#PBF-ND	10-Bit, 40MSPS Low Noise 3V ADC*	32-QFN	11.50	7.67	6.57
LTC2238IUH#PBF-ND	10-Bit, 65MSPS Low Noise 3V ADC*	32-QFN	12.15	8.10	6.94
LTC2239CUH#PBF-ND	10-Bit, 80MSPS Low Noise 3V ADC*	32-QFN	13.73	9.15	7.84
LTC2240CUP-10#PBF-ND	10-Bit, 170MSPS ADC*	64-QFN	51.25	36.61	30.15
LTC2240CUP-12#PBF-ND	12-Bit, 170MSPS ADC*	64-QFN	71.75	51.25	42.21
LTC2240IUP-12#PBF-ND	12-Bit, 170MSPS ADC*	64-QFN	86.10	61.50	50.65
LTC2241CUP-10#PBF-ND	10-Bit, 210MSPS ADC*	64-QFN	65.60	46.86	38.60
LTC2241IUP-10#PBF-ND	10-Bit, 210MSPS ADC*	64-QFN	78.73	56.23	43.32
LTC2241CUP-12#PBF-ND	12-Bit, 210MSPS ADC*	64-QFN	86.10	61.50	50.65
LTC2242CUP-10#PBF-ND	10-Bit, 250MSPS ADC*	64-QFN	79.95	57.11	47.04
LTC2242CUP-12#PBF-ND	12-Bit, 250MSPS ADC*	64-QFN	120.95	86.40	71.15
LTC2242IUP-12#PBF-ND	12-Bit, 250MSPS ADC*	64-QFN	145.15	103.68	85.39
LTC2245IUH#PBF-ND	14-Bit, 10MSPS Low Power 3V ADC*	32-QFN	26.65	17.77	15.23
LTC2246CUH#PBF-ND	14-Bit, 25MSPS Low Power 3V ADC*	32-QFN	24.90	16.60	14.23
LTC2246IUH#PBF-ND	14-Bit, 25MSPS Low Power 3V ADC*	32-QFN	31.13	20.75	17.80

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2247CUH#PBF-ND	14-Bit, 40MSPS Low Power 3V ADC*	32-QFN	32.90	21.93	18.80
LTC2247IUH#PBF-ND	14-Bit, 40MSPS Low Power 3V ADC*	32-QFN	39.43	26.28	22.53
LTC2248CUH#PBF-ND	14-Bit, 65MSPS Low Power 3V ADC*	32-QFN	48.45	32.30	27.69
LTC2248IUH#PBF-ND	14-Bit, 65MSPS Low Power 3V ADC*	32-QFN	58.10	38.73	33.20
LTC2249CUH#PBF-ND	14-Bit, 80MSPS Low Power 3V ADC*	32-QFN	51.88	34.58	29.64
LTC2249IUH#PBF-ND	14-Bit, 80MSPS Low Power 3V ADC*	32-QFN	62.25	41.50	35.57
LTC2250CUH#PBF-ND	10-Bit, 105MSPS Low Noise 3V ADC*	32-QFN	15.00	10.71	8.82
LTC2250IUH#PBF-ND	10-Bit, 105MSPS Low Noise 3V ADC*	32-QFN	18.00	12.86	10.59
LTC2251CUH#PBF-ND	10-Bit, 125MSPS Low Noise 3V ADC*	32-QFN	24.00	17.14	14.12
LTC2252CUH#PBF-ND	12-Bit, 105MSPS Low Power 3V ADC*	32-QFN	46.00	32.86	27.06
LTC2252IUH#PBF-ND	12-Bit, 105MSPS Low Power 3V ADC*	32-QFN	55.20	39.43	32.47
LTC2253CUH#PBF-ND	12-Bit, 125MSPS Low Power 3V ADC*	32-QFN	55.00	39.29	32.35
LTC2253IUH#PBF-ND	12-Bit, 125MSPS Low Power 3V ADC*	32-QFN	66.00	47.14	38.82
LTC2254IUH#PBF-ND	14-Bit, 105MSPS Low Power 3V ADC*	32-QFN	98.40	70.29	57.89
LTC2255CUH#PBF-ND	14-Bit, 125MSPS Low Power 3V ADC*	32-QFN	98.00	70.00	57.65
LTC2255IUH#PBF-ND	14-Bit, 125MSPS Low Power 3V ADC*	32-QFN	117.60	84.00	69.18
LTC2256CUJ-12#PBF-ND	12-Bit, 25MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	20.20	13.57	11.54
LTC2256CUJ-14#PBF-ND	14-Bit, 25MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	30.83	20.71	17.61
LTC2256IUJ-12#PBF-ND	12-Bit, 25MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	24.23	16.29	13.84
LTC2256IUJ-14#PBF-ND	14-Bit, 25MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	36.98	24.86	21.13
LTC2257CUJ-12#PBF-ND	12-Bit, 40MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	21.08	14.17	12.05
LTC2257CUJ-14#PBF-ND	14-Bit, 40MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	37.93	25.50	21.69
LTC2257IUJ-12#PBF-ND	12-Bit, 40MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	25.30	17.00	14.45
LTC2257IUJ-14#PBF-ND	14-Bit, 40MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	45.53	30.60	26.02
LTC2258CUJ-12#PBF-ND	12-Bit, 65MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	29.93	20.11	17.10
LTC2258CUJ-14#PBF-ND	14-Bit, 65MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	53.88	36.21	30.79
LTC2258IUJ-14#PBF-ND	14-Bit, 65MSPS Ultra LP 1.8V ADC* ***NEW!***	40-QFN	64.65	43.46	36.94
LTC2259CUJ-12#PBF-ND	12-Bit, 80MSPS Ultra LP 1.8V ADC*	40-QFN	39.75	26.71	22.71
LTC2259CUJ-14#PBF-ND	14-Bit, 80MSPS Ultra LP 1.8V ADC*	40-QFN	59.50	40.00	34.00
LTC2259IUJ-12#PBF-ND	12-Bit, 80MSPS Ultra LP 1.8V ADC*	40-QFN	47.68	32.06	27.26
LTC2259IUJ-14#PBF-ND	14-Bit, 80MSPS Ultra LP 1.8V ADC*	40-QFN	71.40	48.00	40.80
LTC2260CUJ-12#PBF-ND	12-Bit, 105MSPS Ultra LP 1.8V ADC*	40-QFN	53.13	35.71	30.37
LTC2260CUJ-14#PBF-ND	14-Bit, 105MSPS Ultra LP 1.8V ADC*	40-QFN	93.50	62.86	53.43
LTC2260IUJ-12#PBF-ND	12-Bit, 105MSPS Ultra LP 1.8V ADC*	40-QFN	63.75	42.86	36.44
LTC2260IUJ-14#PBF-ND	14-Bit, 105MSPS Ultra LP 1.8V ADC*	40-QFN	112.20	75.43	64.12
LTC2261CUJ-12#PBF-ND	12-Bit, 125MSPS Ultra LP 1.8V ADC*	40-QFN	62.70	42.14	35.82
LTC2261IUJ-12#PBF-ND	12-Bit, 125MSPS Ultra LP 1.8V ADC*	40-QFN	75.23	50.57	42.99
LTC2261IUJ-14#PBF-ND	14-Bit, 125MSPS Ultra LP 1.8V ADC*	40-QFN	132.60	89.14	75.77
LTC2266CUJ-14#PBF-ND	14-Bit, 80MSPS Dual 1.8V ADC* ***NEW!***	40-QFN	89.25	60.00	51.00
LTC2266IUJ-14#PBF-ND	14-Bit, 80MSPS Dual 1.8V ADC* ***NEW!***	40-QFN	107.10	72.00	61.20
LTC2267CUJ-12#PBF-ND	12-Bit, 105MSPS Dual 1.8V ADC* ***NEW!***	40-QFN	82.88	55.71	47.37
LTC2267CUJ-14#PBF-ND	14-Bit, 105MSPS Dual 1.8V ADC* ***NEW!***	40-QFN	140.25	94.29	80.14
LTC2268IUJ-14#PBF-ND	14-Bit, 125MSPS Dual 1.8V ADC* ***NEW!***	40-QFN	198.90	133.71	113.67
LTC2280CUP#PBF-ND	Dual 10-Bit, 105MSPS Low Noise 3V ADC*	64-QFN	22.50	16.07	13.24
LTC2280IUP#PBF-ND	Dual 10-Bit, 105MSPS Low Noise 3V ADC*	64-QFN	27.00	19.29	15.88
LTC2281CUP#PBF-ND	Dual 10-Bit, 125MSPS Low Power 3V ADC*	64-QFN	36.00	25.71	18.00
LTC2282CUP#PBF-ND	Dual 12-Bit, 105MSPS Low Power 3V ADC*	64-QFN	69.00	49.29	40.59
LTC2282IUP#PBF-ND	Dual 12-Bit, 105MSPS Low Power 3V ADC*	64-QFN	82.80	59.14	48.71
LTC2283CUP#PBF-ND	Dual 12-Bit, 125MSPS Low Power 3V ADC*	64-QFN	82.50	58.93	48.54
LTC2284IUP#PBF-ND	Dual 14-Bit, 105MSPS Low Power 3V ADC*	64-QFN	147.60	105.43	86.83
LTC2285CUP#PBF-ND	Dual 14-Bit, 125MSPS Low Power 3V ADC*	64-QFN	147.00	105.00	86.48
LTC2285IUP#PBF-ND	Dual 14-Bit, 125MSPS Low Power 3V ADC*	64-QFN	176.40	126.00	103.74
LTC2287IUP#PBF-ND	Dual 10-Bit, 40MSPS Low Noise 3V ADC*	64-QFN	17.25	11.50	9.86
LTC2288CUP#PBF-ND	Dual 10-Bit, 65MSPS Low Noise 3V ADC*	64-QFN	15.20	10.13	8.69
LTC2288IUP#PBF-ND	Dual 10-Bit, 65MSPS Low Noise 3V ADC*	64-QFN	18.23	12.15	10.41
LTC2289CUP#PBF-ND	Dual 10-Bit, 80MSPS Low Noise 3V ADC*	64-QFN	20.60	13.73	11.77
LTC2289IUP#PBF-ND	Dual 10-Bit, 80MSPS Low Noise 3V ADC*	64-QFN	24.60	16.40	14.06
LTC2290CUP#PBF-ND	Dual 12-Bit, 10MSPS Low Power 3V ADC*	64-QFN	20.75	13.83	11.86
LTC2291CUP#PBF-ND	Dual 12-Bit, 25MSPS Low Power 3V ADC*	64-QFN	22.78	15.18	13.01
LTC2291IUP#PBF-ND	Dual 12-Bit, 25MSPS Low Power 3V ADC*	64-QFN	27.35	18.23	15.63
LTC2292CUP#PBF-ND	Dual 12-Bit, 40MSPS Low Power 3V ADC*	64-QFN	24.05	16.03	13.74
LTC2292IUP#PBF-ND	Dual 12-Bit, 40MSPS Low Power 3V ADC*	64-QFN	28.85	19.23	16.49
LTC2293CUP#PBF-ND	Dual 12-Bit, 65MSPS Low Power 3V ADC*	64-QFN	37.18	24.78	21.24
LTC2293IUP#PBF-ND	Dual 12-Bit, 65MSPS Low Power 3V ADC*	64-QFN	44.60	29.73	25.48
LTC2294CUP#PBF-ND	Dual 12-Bit, 80MSPS Low Power 3V ADC*	64-QFN	51.38	34.25	29.36
LTC2294IUP#PBF-ND	Dual 12-Bit, 80MSPS Low Power 3V ADC*	64-QFN	61.50	41.00	35.15
LTC2295IUP#PBF-ND	Dual 14-Bit, 10MSPS Low Power 3V ADC*	64-QFN	42.33	28.22	24.19
LTC2296CUP#PBF-ND	Dual 14-Bit, 25MSPS Low Power 3V ADC*	64-QFN	38.90	25.93	22.23
LTC2296IUP#PBF-ND	Dual 14-Bit, 25MSPS Low Power 3V ADC*	64-QFN	46.70	31.13	26.69
LTC2297CUP#PBF-ND	Dual 14-Bit, 40MSPS Low Power 3V ADC*	64-QFN	49.33	32.88	28.19
LTC2298CUP#PBF-ND	Dual 14-Bit, 65MSPS Low Power 3V ADC*	64-QFN	72.68	48.45	41.53
LTC2299CUP#PBF-ND	Dual 14-Bit, 80MSPS Low Power 3V ADC*	64-QFN	77.83	51.88	44.48
LTC2299IUP#PBF-ND	Dual 14-Bit, 80MSPS Low Power 3V ADC*	64-QFN	93.38	62.25	53.37
LTC2308CUF#PBF-ND	8-Channel 12-Bit, 500kSPS ADC*	24-QFN	6.05	5.27	4.34
LTC2308IUF#PBF-ND	8-Channel 12-Bit, 500kSPS ADC*	24-QFN	7.25	6.32	5.21
LTC2309CUF#PBF-ND	8-Channel 12-Bit, SAR ADC*	24-QFN	6.28	5.27	4.34
LTC2309IUF#PBF-ND	8-Channel 12-Bit, SAR ADC*	24-QFN	7.53	6.32	5.21
LTC2351IUH-14#PBF-ND	6-Channel, 14-Bit, 1.5MSPS Sampling ADC*	32-QFN	23.25	16.61	13.68
LTC2355CMSE-12#PBF-ND	12-Bit, 3.5MSPS Sampling ADC*	10-MSOP	10.15	7.25	5.97
LTC2355CMSE-14#PBF-ND	14-Bit, 3.5MSPS Sampling ADC*	10-MSOP	16.30	11.64	9.59
LTC2355IMSE-12#PBF-ND	12-Bit, 3.5MSPS Sampling ADC, Ind. Temp*	10-MSOP	12.18	8.70	7.16
LTC2355IMSE-14#PBF-ND	14-Bit, 3.5MSPS Sampling ADC, Ind. Temp*	10-MSOP	19.55	13.97	11.50
LTC2356CMSE-12#PBF-ND	12-Bit, 3.5MSPS Sampling ADC*	10-MSOP	10.15	7.25	5.97
LTC2356IMSE-12#PBF-ND	12-Bit, 3.5MSPS Sampling ADC, Ind. Temp*	10-MSOP	12.18	8.70	7.16
LTC2356IMSE-14#PBF-ND	14-Bit, 3.5MSPS Sampling ADC, Ind. Temp*	10-MSOP	19.55	13.97	11.50
LTC2391CLX-16#PBF-ND	16-Bit, 250kSPS SAR ADC* ***NEW!***	48-LQFP	16.70	11.23	9.54
LTC2391CUK-16#PBF-ND	16-Bit, 250kSPS SAR ADC* ***NEW!***	48-QFN	16.70	11.23	9.54
LTC2392CLX-16#PBF-ND	16-Bit, 500kSPS SAR ADC* ***NEW!***	48-LQFP	34.65	23.29	19.79
LTC2392CUK-16#PBF-ND	16-Bit, 500kSPS SAR ADC* ***NEW!***	48-QFN	34.65	23.29	19.79
Current Output DAC					
LTC1589CG-ND	14-Bit SoftSpan DAC	16-SSOP	19.88	13.20	10.60
LTC1589CG#PBF-ND	14-Bit SoftSpan DAC*	16-SSOP	19.88	13.20	10.60
LTC1590CN#PBF-ND	Dual 12-Bit, Serial Input, Curr. Output DAC*	16-Dip	12.13	8.06	6.65
LTC1590CS#PBF-ND	Dual 12-Bit, Serial Input, Curr. Output DAC*	16-SOIC	12.38	8.22	6.80
LTC1590IS#PBF-ND	Dual 12-Bit, Serial Input, Curr. Output DAC*	16-SOIC	13.63	9.05	7.50
LTC1591CG#PBF-ND	Parallel 14-Bit, Multiplying Curr. Out DAC*	28-SSOP	20.00	13.28	10.00
LTC1592ACG-ND	16-Bit Softspan DAC	16-SSOP	55.63	36.94	29.65
LTC1592ACG#PBF-ND	16-Bit Softspan DAC*	16-SSOP	55.63	36.94	29.65
LTC1592BCG-ND	16-Bit Softspan DAC	16-SSOP	29.63	19.68	15.80
LTC1592BCG#PBF-ND	16-Bit Softspan DAC*	16-SSOP	29.63	19.68	15.80
LTC1595ACN8-ND	16-Bit Serial Multiplying DAC	8-Dip	48.13	31.96	24.71
LTC1595ACS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	48.75	32.37	25.65
LTC1595AIN8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-Dip	57.75	38.35	29.65
LTC1595AIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp.*	8-SOIC	58.50	38.85	30.00
LTC1595BCN8-ND	16-Bit Serial Multiplying DAC	8-Dip	28.50	18.93	15.20
LTC1595BCS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	29.13	19.34	15.55
LTC1595BIS8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-SOIC	35.00	23.24	18.65
LTC1595BIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp*	8-SOIC	35.00	23.24	18.65
LTC1595CCS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	25.00	16.60	13.35
LTC1596AISW#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp*	16-SOIC	61.25	40.67	31.40
LTC1596BCSW#PBF-ND	16-Bit Serial Multiplying DAC*	16-SOIC	30.63	20.34	16.35
LTC1597ACG#PBF-ND	16-Bit Multiplying Parallel DAC*	28-SSOP	55.63	36.94	27.82
LTC1597BCN-ND	16-Bit Multiplying Parallel DAC	28-Dip	33.88	22.50	16.95
LTC1597-1ACG#PBF-ND	16-Bit Multiplying Parallel DAC*	28-SSOP	55.63	36.94	27.82
LTC1597-1BCG#PBF-ND	16-Bit Multiplying Parallel DAC*	28-SSOP	34.50	22.91	17.25
LTC1597-1BCN-ND	16-Bit Multiplying Parallel DAC	28-Dip	33.88	22.50	16.95
LTC2657BIFE-H16#PBF-ND	16-Bit Octal I^{2}C Rail-to-Rail DAC* ***NEW!***	20-TSSOP	43.88	29.50	25.07
LTC2657BIFE-L16#PBF-ND	16-Bit Octal I^{2}C Rail-to-Rail DAC* ***NEW!***	20-TSSOP	43.88	29.50	25.07
LTC2657BIUFD-H16#PBF-ND	16-Bit Octal I^{2}C Rail-to-Rail DAC* ***NEW!***	20-QFN	43.88	29.50	25.07
LTC2657IFE-H12#PBF-ND	12-Bit Octal I^{2}C Rail-to-Rail DAC* ***NEW!***	20-TSSOP	21.38	14.37	12.21
LTC2657IFE-L12#PBF-ND	12-Bit Octal I^{2}C Rail-to-Rail DAC* ***NEW!***	20-TSSOP	21.38	14.37	12.21
LTC2751ACUHF-16#PBF-ND	16-Bit Current Output Softspan DAC*	38-QFN	20.30	14.50	11.94
LTC2754AIUKG-16#PBF-ND	16-Bit Current Output DAC* ***NEW!***	52-QFN	50.23	33.77	28.71
LTC2754BCUKG-16#PBF-ND	16-Bit Current Output DAC* ***NEW!***	52-QFN	37.93	25.50	21.69
LTC2754IUKG-12#PBF-ND	12-Bit Current Output DAC* ***NEW!***	52-QFN	23.33	15.69	13.33
LTC7541ABN-ND	12-Bit CMOS Multiplying DAC	18-Dip	11.25	7.50	6.25
LTC7541ABN#PBF-ND	12-Bit CMOS Multiplying DAC*	18-Dip	11.25	7.50	6.25
LTC7541ABSW#PBF-ND	12-Bit CMOS Multiplying DAC*	18-SOIC	11.25	7.50	6.25
LTC7541AKN#PBF-ND	12-Bit CMOS Multiplying DAC*	18-Dip	9.00	6.00	4.95
LTC7545AKSW#PBF-ND	12-Bit Parallel Multiplying DAC*	20-SOIC	7.13	4.75	4.10
LTC8043EN8-ND	12-Bit Serial Multiplying DAC	8-Dip	9.13	6.10	5.00
LTC8043EN8#PBF-ND	12-Bit Serial Multiplying DAC*	8-Dip	9.13	6.10	5.00
LTC8043ES8#PBF-ND	12-Bit Serial Multiplying DAC*	8-SOIC	9.13	6.10	5.00
LTC8043FN8#PBF-ND	12-Bit Serial Multiplying DAC*	8-Dip	8.75	5.85	4.80
LTC8043FS8#PBF-ND	12-Bit Serial Multiplying DAC*	8-SOIC	8.75	5.85	4.80
LTC8143ESW#PBF-ND	12-Bit Serial Multiplying DAC*	16-SOIC	13.13	8.75	7.25
Voltage Output DAC					
LTC1257CN8#PBF-ND	Complete Single Supply 12-Bit DAC*	8-Dip	8.38	5.60	4.45
LTC1257CS8#PBF-ND	Complete Single Supply 12-Bit DAC*	8-SOIC	8.88	5.90	4.75
LTC1257IN8#PBF-ND	Complete Single Supply 12-Bit DAC*	8-Dip	9.25	6.15	4.90
LTC1257IS8#PBF-ND	Complete Single Supply 12-Bit DAC*	8-SOIC	9.75	6.50	5.20
LTC1446CN8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-Dip	12.00	8.00	6.55
LTC1446CS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-SOIC	12.13	8.10	6.65
LTC1446IS8#PBF-ND	Dual 12-Bit R/R Micropwr DAC, Ind. Temp*	8-SOIC	13.63	9.10	7.45
LTC1446LCS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-SOIC	13.38	8.90	7.65
LTC1448CN8#PBF-ND	Dual 12-Bit R/R Micropower DAC*	8-Dip	12.00	8.00	6.55
LTC1448CS8#PBF-ND	Dual 12-Bit R/R Micropower DAC*	8-SOIC	12.13	8.10	6.65
LTC1448IN8#PBF-ND	Dual 12-Bit R/R Micropower DAC*	8-Dip	13.50	9.00	7.40
LTC1448IS8#PBF-ND	Dual 12-Bit R/R Micropwr DAC, Ind. Temp*.	8-SOIC	13.63	9.10	7.45
LTC1450CG#PBF-ND	Parallel Input 12-Bit R/R Micropower DAC*	24-SSOP	10.63	7.10	6.10
LTC1450LCG#PBF-ND	Parallel Input 12-Bit R/R Micropower DAC*	24-SSOP	11.25	7.50	6.20
LTC1451CN8#PBF-ND	12-Bit, Volt. Out, R/R Micropower DAC*	8-Dip	8.63	5.75	4.93
LTC1451CS8#PBF-ND	12-Bit, Volt. Out, R/R Micropower DAC*	8-SOIC	9.13	6.08	5.21
LTC1451IS8#PBF-ND	12-Bit, Volt. Out, R/R MPU DAC, Ind. Temp*	8-SOIC	9.88	6.58	5.64
LTC1452CN8#PBF-ND	12-Bit, Volt. Out, R/R Micropower DAC*	8-Dip	7.63	5.07	4.35
LTC1452CS8#PBF-ND	12-Bit, Volt. Out, R/R Micropower DAC*	8-SOIC	8.13	5.40	4.65
LTC1452IS8#PBF-ND	12-Bit, Volt. Out, R/R MPU DAC Ind. Temp*	8-SOIC	8.88	5.90	5.10
LTC1453CN8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-Dip	9.20	6.11	4.80
LTC1453CS8#PBF-ND	12-Bit, Volt. Out, R/R Micropower DAC*	8-SOIC	9.70	6.45	5.10
LTC1453IS8#PBF-ND	12-Bit, Volt. Out, R/R MPU DAC, Ind. Temp*	8-SOIC	10.50	6.98	5.50
LTC1454CN#PBF-ND	Dual 12-Bit, R/R Micropower DAC*	16-Dip	12.38	8.25	7.10
LTC1454CS#PBF-ND	Dual 12-Bit, R/R Micropower DAC*	16-SOIC	12.50	8.35	7.15
LTC1454LCN-ND	Dual 12-Bit, R/R Micropower DAC	16-Dip	13.63	9.10	7.80
LTC1454LCS-ND	Dual 12-Bit, R/R Micropower DAC	16-SOIC	13.75	9.15	7.85
LTC1454LCS#PBF-ND	Dual 12-Bit, R/R Micropower DAC*	16-SOIC	13.75	9.15	7.85
LTC1454IS-ND	Dual 12-Bit, R/R Micropwr DAC Ind. Temp.	16-SOIC	14.00	9.35	8.00
LTC1454IS#PBF-ND	Dual 12-Bit, R/R Micropwr DAC Ind. Temp*	16-SOIC	14.00	9.35	8.00
LTC1456CN8-ND	Single 12-Bit, R/R Micropower DAC	8-Dip	8.63	5.75	4.90
LTC1456CS8#PBF-ND	Single 12-Bit, R/R Micropower DAC*	8-SOIC	9.13	6.10	5.20
LTC1458CG#PBF-ND	Quad 12-Bit, R/R Micropower DAC*	28-SSOP	24.38	16.25	13.20
LTC1458CSW#PBF-ND	Quad 12-Bit, R/R Micropower DAC*	28-SOIC	22.88	15.25	12.35
LTC1458LCG#PBF-ND	Quad 12-Bit, R/R Micropower DAC*	28-SSOP	26.88	17.90	15.35
LTC1458LIG-ND	Quad 12-Bit, R/R Micropower DAC	28-SSOP	31.63	21.00	16.86
LTC1458LIG#PBF-ND	Quad 12-Bit, R/R Micropower DAC*	28-SSOP	31.63	21.00	16.86
LTC1650ACS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	16-SOIC	32.50	21.58	17.10
LTC1650AIS#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	16-SOIC	36.88	24.49	19.40
LTC1650CS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	16-SOIC	24.50	16.27	12.25
LTC1650IS#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	16-SOIC	27.75	18.43	13.90
LTC1654CGN#PBF-ND	Dual 14-Bit, Rail-to-Rail Voltage Out DAC*	16-SSOP	19.00	12.62	9.50
LTC1655CN8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	8-Dip	16.88	11.21	8.45
LTC1655CS8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	8-SOIC	16.88	11.21	8.45
LTC1655IS8#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	8-SOIC	18.50	12.29	9.25
LTC1657CGN#PBF-ND	16-Bit, Rail-to-Rail Micropower DAC*	28-SSOP	18.25	12.12	9.15
LTC1658CMS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-MSOP	10.88	7.23	5.45
LTC1658CN8-ND	14-Bit, Rail-to-Rail Voltage Out DAC	8-Dip	10.25	6.81	5.15
LTC1658CN8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-Dip	10.25	6.81	5.15
LTC1658CS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-SOIC	10.25	6.81	5.15
LTC1658IMS8#PBF-ND	14-Bit, Rail-to-Rail DAC, Ind. Temp.*	8-MSOP	13.00	8.64	6.50
LTC1659IMS8#PBF-ND	12-Bit, R/R Voltage Out DAC, Ind. Temp*	8-MSOP	10.25	7.32	6.03
LTC1659IS8#PBF-ND	12-Bit, R/R Voltage Out DAC, Ind. Temp*	8-SOIC	9.13	6.06	5.10
LTC1660CGN#PBF-ND	Octal 10-Bit, Voltage Output DAC*	16-SSOP	12.38	8.22	6.20
LTC1660CN#PBF-ND	Octal 10-Bit, Voltage Output DAC*	16-Dip	11.38	7.56	5.70
LTC1660IGN#PBF-ND	Octal 10-Bit, DAC, Ind. Temp*	16-SSOP	13.88	9.22	6.95
LTC1660IN-ND	Octal 10-Bit, DAC, Ind. Temp.	16-Dip	12.88	8.55	6.44
LTC1661CMS8#PBF-ND	Dual 10-Bit, Micropower DAC*	8-MSOP	3.38	2.25	1.75
LTC1661CN8#PBF-ND	Dual 10-Bit, Micropower DAC*	8-Dip	3.38	2.25	1.75
LTC1662IMS8#PBF-ND	Ultra-low Power, Buffered, Dual 10-Bit DAC*	8-MSOP	6.00	3.99	3.00
LTC1663-1CS5#TRMCT-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	TSOT-23-5	4.14	3.70	3.33
LTC1663-1CS5#TRMPBFCT-ND	10-Bit, R/R MPU DAC w/2-Wire Interface*	TSOT-23-5	4.14	3.70	3.33
LTC1663-1CS5#TRMPBFTR-ND	10-Bit, R/R MPU DAC w/2-Wire Interface*	TSOT-23-5	950.00/500		
LTC1663-8CMS8-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	8-MSOP	3.50	2.50	2.06
LTC1663-8IMS8-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	8-MSOP	4.13	2.95	2.43
LTC1663-8IMS8#PBF-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	8-MSOP	4.13	2.95	2.43
LTC1663CS5#TRMPBFCT-ND	10-Bit, R/R MPU DAC w/2-Wire Interface*	TSOT-23-5	4.14	3.70	3.33
LTC1663CS5#TRMPBFTR-ND	10-Bit, R/R MPU DAC w/2-Wire Interface*	TSOT-23-5	950.00/500		
LTC1664CGN#PBF-ND	10-Bit, Quad Micropower DAC*	16-SSOP	6.25	4.15	3.15
LTC1665CGN#PBF-ND	Octal 8-Bit, Voltage Output DAC*	16-SSOP	6.38	4.24	3.20
LTC1669CMS8#PBF-ND	10-Bit Rail-to-Rail Micropower DAC*	8-MSOP	3.50	2.50	2.06
LTC1821-1BCGW#PBF-ND	16-Bit, Ultra Precise, Voltage Out DAC*	36-SSOP	63.63	42.40	33.95
LTC1821ACGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821BIGW-ND	16-Bit, Ultra Precise, DAC, Ind. Temp.	36-SSOP	70.00	46.65	37.35
LTC2600CGN#PBF-ND	Octal 16-Bit Rail-to-Rail DAC*	16-SSOP	28.00	18.60	14.95
LTC2600CUFD#PBF-ND	Octal 16-Bit Rail-to-Rail DAC*	20-DFN	29.75	19.76	14.95

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2601CDD-1#PBF-ND	16-Bit Rail-to-Rail DAC*	10-DFN	5.38	3.60	3.05
LTC2601IDD-1#PBF-ND	16-Bit Rail-to-Rail DAC*	10-DFN	6.00	4.00	3.45
LTC2602IMS8#PBF-ND	16-Bit Dual Rail-to-Rail DAC*	8-MSOP	10.63	7.10	5.65
LTC2604CGN#PBF-ND	16-Bit Quad Rail-to-Rail DAC*	16-SSOP	19.00	12.62	10.15
LTC2604IGN#PBF-ND	16-Bit Quad Rail-to-Rail DAC*	16-SSOP	21.88	14.53	11.65
LTC2604IGN-1#PBF-ND	16-Bit Quad Rail-to-Rail DAC*	16-SSOP	21.88	14.53	11.65
LTC2605IGN-1#PBF-ND	Octal 16-Bit Rail-to-Rail DAC*	16-SSOP	35.28	25.20	20.75
LTC2606CDD#PBF-ND	16-Bit R/R DAC with I²C Interface*	10-DFN	5.65	3.76	3.23
LTC2607CDE#PBF-ND	16-Bit Dual R/R DAC with I²C Interface*	12-DFN	10.45	7.46	6.15
LTC2607IDE-1#PBF-ND	16-Bit Dual R/R DAC with I²C Interface*	12-DFN	12.55	8.96	7.38
LTC2609CGN#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	19.00	13.57	11.18
LTC2609CGN-1#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	19.00	13.57	11.18
LTC2609IGN#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	22.80	16.29	13.41
LTC2609IGN-1#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	22.80	16.29	13.41
LTC2610CGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	22.13	14.70	11.80
LTC2610CUFD#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	20-DFN	23.48	15.59	11.80
LTC2611CDD-1#PBF-ND	14-Bit Rail-to-Rail DAC*	10-DFN	4.63	3.08	2.55
LTC2614IGN-1#PBF-ND	14-Bit Quad Rail-to-Rail DAC*	16-SSOP	16.00	11.43	9.41
LTC2615CGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	23.20	16.57	13.65
LTC2615CGN-1#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	23.20	16.57	13.65
LTC2615IGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	27.85	19.89	16.38
LTC2617CDE#PBF-ND	14-Bit Dual R/R DAC with I²C Interface*	12-DFN	7.60	5.43	4.47
LTC2617CDE-1#PBF-ND	14-Bit Dual R/R DAC with I²C Interface*	12-DFN	7.60	5.43	4.47
LTC2619CGN#PBF-ND	14-Bit Quad R/R DAC with I²C Interface*	16-SSOP	14.70	10.50	8.65
LTC2619CGN-1#PBF-ND	14-Bit Quad R/R DAC with I²C Interface*	16-SSOP	14.70	10.50	8.65
LTC2620CGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	15.50	10.30	8.25
LTC2620CUFD#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	20-DFN	16.48	10.94	8.25
LTC2621CDD#PBF-ND	12-Bit Rail-to-Rail DAC* ***NEW!***	10-DFN	4.00	2.66	2.20
LTC2621CDD-1#PBF-ND	12-Bit Rail-to-Rail DAC*	10-DFN	4.00	2.66	2.20
LTC2621IDD-1#PBF-ND	12-Bit Rail-to-Rail DAC*	10-DFN	4.63	3.08	2.55
LTC2622CMS8#PBF-ND	12-Bit Dual Rail-to-Rail DAC*	8-MSOP	5.50	3.93	3.24
LTC2622IMS8#PBF-ND	12-Bit Dual Rail-to-Rail DAC*	8-MSOP	6.50	4.64	3.82
LTC2624IGN-1#PBF-ND	12-Bit Quad Rail-to-Rail DAC*	16-SSOP	12.13	8.66	7.13
LTC2625CGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	16.28	11.63	9.57
LTC2625CGN-1#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	16.28	11.63	9.57
LTC2625IGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	19.53	13.95	11.49
LTC2625IGN-1#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	19.53	13.95	11.49
LTC2626CDD#PBF-ND	12-Bit R/R DAC with I²C Interface*	10-DFN	4.20	2.80	2.40
LTC2627CDE#PBF-ND	12-Bit Dual R/R DAC with I²C Interface*	12-DFN	6.15	4.39	3.62
LTC2627CDE-1#PBF-ND	12-Bit Dual R/R DAC with I²C Interface*	12-DFN	6.15	4.39	3.62
LTC2627IDE#PBF-ND	12-Bit Dual R/R DAC with I²C Interface*	12-DFN	7.40	5.29	4.35
LTC2627IDE-1#PBF-ND	12-Bit Dual R/R DAC with I²C Interface*	12-DFN	7.40	5.29	4.35
LTC2629CGN#PBF-ND	12-Bit Quad R/R DAC w/I²C Interface*	16-SSOP	10.50	7.50	6.18
LTC2629CGN-1#PBF-ND	12-Bit Quad R/R DAC w/I²C Interface*	16-SSOP	10.50	7.50	6.18
LTC2629IGN#PBF-ND	12-Bit Quad R/R DAC w/I²C Interface*	16-SSOP	12.60	9.00	7.41
LTC2629IGN-1#PBF-ND	12-Bit Quad R/R DAC w/I²C Interface*	16-SSOP	12.60	9.00	7.41
LTC2630ACSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	1195.00/500		
LTC2630ACSC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	1195.00/500		
LTC2630AHSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	5.15	4.60	4.14
LTC2630AHSC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	1355.00/500		
LTC2630AHSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	5.15	4.60	4.14
LTC2630AISC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	1295.00/500		
LTC2630AISC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	1295.00/500		
LTC2630CSC6-HZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	2.97	2.65	2.39
LTC2630CSC6-HZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	780.00/500		
LTC2630CSC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.39	3.03	2.73
LTC2630CSC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	890.00/500		
LTC2630CSC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	2.35	2.10	1.89
LTC2630CSC6-LZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	620.00/500		
LTC2630HSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-HZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	3.39	3.03	2.73
LTC2630HSC6-HZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	890.00/500		
LTC2630HSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-HZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	2.86	2.55	2.30
LTC2630HSC6-LZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	3.39	3.03	2.73
LTC2630HSC6-LZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Reference*	SC70-6	890.00/500		
LTC2630HSC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	2.86	2.55	2.30
LTC2630ISC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-HZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	2.63	2.35	2.12
LTC2630ISC6-HZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	695.00/500		
LTC2630ISC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Reference*	SC70-6	970.00/500		
LTC2630ISC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	2.63	2.35	2.12
LTC2630ISC6-LZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Reference*	SC70-6	695.00/500		
LTC2631AITS8-HM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.82	5.20	4.68
LTC2631AITS8-HM12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1480.00/500		
LTC2631AITS8-HZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.82	5.20	4.68
LTC2631AITS8-HZ12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1465.00/500		
LTC2631AITS8-LM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.82	5.20	4.68
LTC2631AITS8-LM12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1480.00/500		
LTC2631CTS8-HM10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.42	3.05	2.75
LTC2631CTS8-HZ10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.42	3.05	2.75
LTC2631CTS8-LM10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.42	3.05	2.75
LTC2631CTS8-LZ10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.42	3.05	2.75
LTC2631CTS8-LZ10#TRMPBFTR-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	870.00/500		
LTC2631ITS8-HM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	4.26	3.80	3.42
LTC2631ITS8-HZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	4.26	3.80	3.42
LTC2631ITS8-HZ12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1080.00/500		
LTC2631ITS8-LM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	4.26	3.80	3.42
LTC2631ITS8-LM12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1080.00/500		
LTC2634IMSE-HMX12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	10-MSOP	10.05	6.76	5.74
LTC2634IMSE-LMI10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	10-MSOP	7.18	4.82	4.10
LTC2634IMSE-LMI12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	10-MSOP	10.05	6.76	5.74
LTC2634IMSE-LZ10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	10-MSOP	7.18	4.82	4.10
LTC2634IMSE-LZ12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	10-MSOP	10.05	6.76	5.74
LTC2634IUD-HMI10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	16-QFN	7.18	4.82	4.10
LTC2634IUD-HMI12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-HMX10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	16-QFN	7.18	4.82	4.10
LTC2634IUD-HMX12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-HZ10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	16-QFN	7.18	4.82	4.10
LTC2634IUD-HZ12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-LMI12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-LMX10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	16-QFN	7.18	4.82	4.10
LTC2634IUD-LMX12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-LZ10#PBF-ND	Quad 10-Bit Voltage Output DAC* ***NEW!***	16-QFN	7.18	4.82	4.10
LTC2634IUD-LZ12#PBF-ND	Quad 12-Bit Voltage Output DAC* ***NEW!***	16-QFN	10.05	6.76	5.74
LTC2634IUD-LZ8#PBF-ND	Quad 8-Bit Voltage Output DAC* ***NEW!***	16-QFN	4.75	3.19	2.71
LTC2636IDE-HMI12#PBF-ND	Octal 12-Bit Voltage Output DAC*	14-DFN	18.13	12.18	10.35
LTC2636IDE-HMX12#PBF-ND	Octal 12-Bit Voltage Output DAC*	14-DFN	18.13	12.18	10.35
LTC2636IDE-HZ12#PBF-ND	Octal 12-Bit Voltage Output DAC*	14-DFN	18.13	12.18	10.35
LTC2637IDE-HMI10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	14-DFN	11.05	7.43	6.32
LTC2637IDE-HMI8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IDE-HMX8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IDE-HZ10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	14-DFN	11.05	7.43	6.32
LTC2637IDE-HZ12#PBF-ND	Octal 12-Bit Voltage Output DAC* ***NEW!***	14-DFN	19.03	12.79	10.87
LTC2637IDE-HZ8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IDE-LMI10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	14-DFN	11.05	7.43	6.32
LTC2637IDE-LMI8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IDE-LMX10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	14-DFN	11.05	7.43	6.32
LTC2637IDE-LMX8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IDE-LZ10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	14-DFN	11.05	7.43	6.32
LTC2637IDE-LZ8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	14-DFN	7.00	4.70	3.99
LTC2637IMS-HMI10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-HMI12#PBF-ND	Octal 12-Bit Voltage Output DAC* ***NEW!***	16-MSOP	19.03	12.79	10.87
LTC2637IMS-HMI8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	16-MSOP	7.00	4.70	3.99
LTC2637IMS-HMX10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-HMX8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	16-MSOP	7.00	4.70	3.99
LTC2637IMS-HZ10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-HZ12#PBF-ND	Octal 12-Bit Voltage Output DAC* ***NEW!***	16-MSOP	19.03	12.79	10.87
LTC2637IMS-HZ8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	16-MSOP	7.00	4.70	3.99
LTC2637IMS-LMI10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-LMI12#PBF-ND	Octal 12-Bit Voltage Output DAC* ***NEW!***	16-MSOP	19.03	12.79	10.87
LTC2637IMS-LMI8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	16-MSOP	7.00	4.70	3.99
LTC2637IMS-LMX10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-LMX8#PBF-ND	Octal 8-Bit Voltage Output DAC* ***NEW!***	16-MSOP	7.00	4.70	3.99
LTC2637IMS-LZ10#PBF-ND	Octal 10-Bit Voltage Output DAC* ***NEW!***	16-MSOP	11.05	7.43	6.32
LTC2637IMS-LZ12#PBF-ND	Octal 12-Bit Voltage Output DAC* ***NEW!***	16-MSOP	19.03	12.79	10.87
LTC2640AITS8-HM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.54	4.95	4.46
LTC2640AITS8-HM12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1415.00/500		
LTC2640AITS8-HZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.54	4.95	4.46
LTC2640AITS8-LM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.54	4.95	4.46
LTC2640AITS8-LM12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1415.00/500		
LTC2640AITS8-LZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	5.54	4.95	4.46
LTC2640CTS8-HM10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.19	2.85	2.57
LTC2640CTS8-HM10#TRMPBFTR-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	810.00/500		
LTC2640CTS8-HZ10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.19	2.85	2.57
LTC2640CTS8-HZ10#TRMPBFTR-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	810.00/500		
LTC2640CTS8-LM10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.19	2.85	2.57
LTC2640CTS8-LZ10#TRMPBFCT-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	3.19	2.85	2.57
LTC2640CTS8-LZ10#TRMPBFTR-ND	Single 10-Bit Voltage Output DAC*	TSOT-23-8	810.00/500		
LTC2640HTS8-LZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	4.37	3.90	3.51
LTC2640ITS8-HM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	3.98	3.55	3.20
LTC2640ITS8-HZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	3.98	3.55	3.20
LTC2640ITS8-HZ12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1015.00/500		
LTC2640ITS8-LM12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	3.98	3.55	3.20
LTC2640ITS8-LZ12#TRMPBFCT-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	3.98	3.55	3.20
LTC2640ITS8-LZ12#TRMPBFTR-ND	Single 12-Bit Voltage Output DAC*	TSOT-23-8	1015.00/500		
LTC2641CDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	8-DFN	11.10	7.94	6.54
LTC2641CDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-DFN	12.83	9.15	7.54
LTC2641CMS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-MSOP	12.83	9.15	7.54
LTC2641CS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-SOIC	12.83	9.15	7.54
LTC2641IDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	8-DFN	13.33	9.52	7.84
LTC2641IMS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-MSOP	15.38	10.98	9.04
LTC2641IS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-SOIC	15.38	10.98	9.04
LTC2642CDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	10-DFN	6.05	4.32	3.56
LTC2642CDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	10-DFN	11.10	7.94	6.54
LTC2642CDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	10-DFN	12.83	9.15	7.54
LTC2642CMS-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	10-MSOP	12.83	9.15	7.54
LTC2642IDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	10-DFN	7.25	5.18	4.27
LTC2642IDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	10-DFN	13.33	9.52	7.84
LTC2642IMS-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	10-MSOP	15.38	10.98	9.04
LTC2656BCFE-H16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	38.15	25.64	21.80
LTC2656BCFE-L16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	38.15	25.64	21.80
LTC2656BCUFD-H16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-QFN	38.15	25.64	21.80
LTC2656BCUFD-L16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-QFN	38.15	25.64	21.80
LTC2656BIFE-H16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	43.88	29.50	25.07
LTC2656BIFE-L16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	43.88	29.50	25.07
LTC2656BIUFD-H16#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-QFN	43.88	29.50	25.07
LTC2656IFE-H12#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	21.38	14.37	12.21
LTC2656IFE-L12#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-TSSOP	21.38	14.37	12.21
LTC2656IUFD-H12#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-QFN	21.38	14.37	12.21
LTC2656IUFD-L12#PBF-ND	Octal 16-Bit Rail-to-Rail DAC* ***NEW!***	20-QFN	21.38	14.37	12.21
LTC2704IGW-12#PBF-ND	12-Bit Voltage Output Softspan DAC*	44-SSOP	49.10	35.07	28.88
LTC2704IGW-16#PBF-ND	16-Bit Voltage Output Softspan DAC*	44-SSOP	73.70	52.64	43.35
LTC2755ACUP-16#PBF-ND	Quad 16-Bit Current Output SoftSpan DAC*	64-QFN	41.88	29.90	24.63
LTC2755AIUP-16#PBF-ND	Quad 16-Bit Current Output SoftSpan DAC*	64-QFN	50.23	35.88	29.55
LTC2755BCUP-16#PBF-ND	Quad 16-Bit Current Output SoftSpan DAC*	64-QFN	37.93	27.09	22.32
LTC2755IUP-12#PBF-ND	Quad 12-Bit Current Output SoftSpan DAC*	64-QFN	23.33	15.69	13.33
LTC2755IUP-14#PBF-ND	Quad 14-Bit Current Output SoftSpan DAC*	64-QFN	32.25	23.04	18.98
High Speed DAC					
LTC1666CG#PBF-ND	12-Bit, 50MSPS DAC*	28-SSOP	16.63	11.04	8.95
LTC1667CG-ND	14-Bit, 50MSPS DAC	28-SSOP	22.38	14.86	12.05
LTC1667CG#PBF-ND	14-Bit, 50MSPS DAC*	28-SSOP	22.38	14.86	12.05
LTC1668CG#PBF-ND	16-Bit, 50MSPS DAC*	28-SSOP	29.25	19.43	14.65
Special Function DAC					
LTC1329CS8-10#PBF-ND	Micropower 8-Bit, Current Output DAC*	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50#PBF-ND	Micropower 8-Bit, Current Output DAC*	8-SOIC	4.75	3.16	2.65
LTC1427CS8-50-ND	10-Bit, DAC with SMBus Interface	8-SOIC	6.13	4.07	3.20
LTC1427CS8-50#PBF-ND	10-Bit, DAC with SMBus Interface*	8-SOIC	6.13	4.07	3.20
MUXes and Switches					
LTC201ACS#PBF-ND	Quad CMOS Analog Switch*	16-SOIC	5.30	3.52	2.80
LTC202CS#PBF-ND	Quad CMOS Analog Switch*	16-SOIC	4.50	3.00	2.50
LTC203CS#PBF-ND	Quad CMOS Analog Switch*	16-SOIC	5.00	3.35	2.85
LTC222CS#PBF-ND	Quad CMOS Analog Switch*	16-SOIC	5.25	3.50	2.95
LTC1380CS-ND	8-Ch. CMOS Mux with SMBus Interface	16-SOIC	6.13	4.07	3.07

* *RoHS Compliant*

LINEAR TECHNOLOGY Digi-Reel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1390CN#PBF-ND	CMOS 8-to-1 Analog Mux/Serial Interface*	16-Dip	4.38	2.91	2.35
LTC1390CS-ND	CMOS 8-to-1 Analog Mux/Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1390CS#PBF-ND	CMOS 8-to-1 Analog Mux/Serial Interface*	16-SOIC	4.63	3.10	2.45
LTC1391CS#PBF-ND	CMOS 8-to-1 Mux/Cascade Serial Interface*	16-SOIC	4.63	3.10	2.45

LINEAR TECHNOLOGY INTERFACE — µMODULE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NEW! RS485 / RS422 NEW!					
LTM2881CV-3#PBF-ND	Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-LGA	17.95	12.07	10.26
LTM2881CV-5#PBF-ND	Isolated Transceiver / DC/DC Converter, 5V 200mA	32-LGA	17.95	12.07	10.26
LTM2881CY-3#PBF-ND	Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-BGA	17.95	12.07	10.26
LTM2881CY-5#PBF-ND	Isolated Transceiver / DC/DC Converter, 5V 200mA	32-BGA	17.95	12.07	10.26
LTM2881IV-3#PBF-ND	Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-LGA	21.20	14.24	12.11
LTM2881IV-5#PBF-ND	Isolated Transceiver / DC/DC Converter, 5V 200mA	32-LGA	21.20	14.24	12.11
LTM2881IY-3#PBF-ND	Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-BGA	21.20	14.24	12.11
LTM2881IY-5#PBF-ND	Isolated Transceiver / DC/DC Converter, 5V 200mA	32-BGA	21.20	14.24	12.11
NEW! RS232 NEW!					
LTM2882CV-3#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-LGA	17.95	12.07	10.26
LTM2882CV-5#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 5V 200mA	32-LGA	17.95	12.07	10.26
LTM2882CY-3#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-BGA	17.95	12.07	10.26
LTM2882CY-5#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 5V 200mA	32-BGA	17.95	12.07	10.26
LTM2882IV-3#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-LGA	21.20	14.24	12.11
LTM2882IV-5#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 5V 200mA	32-LGA	21.20	14.24	12.11
LTM2882IY-3#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 3.3V 200mA	32-BGA	21.20	14.24	12.11
LTM2882IY-5#PBF-ND	Dual Isolated Transceiver / DC/DC Converter, 5V 200mA	32-BGA	21.20	14.24	12.11
Signal Chain µModule					
LTM9001CV-AA#PBF-ND	16-Bit IF/Baseband Receiver Subsystem	81-LGA	174.25	117.14	99.57
LTM9001CV-AD#PBF-ND	16-Bit IF/Baseband Receiver Subsystem ***NEW!***	81-LGA	174.25	117.14	99.57
LTM9001IV-AD#PBF-ND	16-Bit IF/Baseband Receiver Subsystem ***NEW!***	81-LGA	209.10	140.58	119.49
LTM9002CV-AA#PBF-ND	14-Bit IF/Baseband Receiver Subsystem ***NEW!***	108-LGA	210.90	141.79	120.53
LTM9002CV-LA#PBF-ND	14-Bit IF/Baseband Receiver Subsystem ***NEW!***	108-LGA	69.60	46.79	39.77
LTM9002IV-AA#PBF-ND	14-Bit IF/Baseband Receiver Subsystem ***NEW!***	108-LGA	253.10	170.14	144.63

LINEAR TECHNOLOGY Digi-Reel® INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
RS232/RS562					
LT1032CN#PBF-ND	Quad Low Power Line Driver*	14-Dip	4.50	3.00	2.55
LT1039ACN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown*	18-Dip	5.40	3.59	2.85
LT1039ACSW#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown*	18-SOIC	6.40	4.25	3.35
LT1039CN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown*	18-Dip	4.70	3.13	2.45
LT1080CN#PBF-ND	5V, Dual RS232 Driver/Receiver with Shutdown*	18-Dip	6.10	4.06	3.15
LT1081CN#PBF-ND	5V, Dual RS232 Driver/Receiver*	16-Dip	4.75	3.17	2.65
LT1081CSW#PBF-ND	5V, Dual RS232 Driver/Receiver*	16-SOIC	6.00	4.00	3.35
LT1130ACSW#PBF-ND	5V, RS232, 5 Drivers/5 Receivers*	28-SOIC	7.63	5.10	4.25
LT1130AISW-ND	5V, RS232, 5 Drivers/5 Receivers	28-SOIC	9.13	6.10	5.20
LT1130AISW#PBF-ND	5V, RS232, 5 Drivers/5 Receivers*	28-SOIC	9.13	6.10	5.20
LT1131ACNW-ND	5V, RS232, 5 Drivers/4 Receivers	28-Dip	7.25	4.83	4.00
LT1131ACNW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers*	28-Dip	7.25	4.83	4.00
LT1131ACSW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers*	28-SOIC	7.63	5.08	4.25
LT1132ACN#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	24-Dip	7.25	4.83	4.00
LT1132ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	7.63	5.08	4.25
LT1132ACSW#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	24-SOIC	7.63	5.08	4.25
LT1133ACN#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	24-Dip	7.25	4.83	4.00
LT1133ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	24-SOIC	7.63	5.08	4.25
LT1134ACN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-Dip	7.00	4.67	3.75
LT1134ACSW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-SOIC	7.00	4.67	3.75
LT1134AIN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-Dip	9.00	6.00	5.00
LT1134AISW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-SOIC	9.00	6.00	5.00
LT1135ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	20-SOIC	6.25	4.17	3.45
LT1137ACG#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	28-SSOP	7.75	5.17	4.15
LT1137ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	28-SOIC	7.00	4.67	3.75
LT1180ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	18-Dip	4.63	3.08	2.45
LT1180ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	18-SOIC	5.13	3.42	2.70
LT1181ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	16-Dip	4.63	3.08	2.45
LT1181ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	16-SOIC	5.13	3.42	2.70
LT1237CG-ND	5V, RS232 Transceiver with Advanced Power Mgmt.	28-SSOP	8.13	5.42	4.25
LT1237CG#PBF-ND	5V, RS232 Transceiver with Advanced Power Mgmt.*	28-SSOP	8.13	5.42	4.25
LT1280ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	18-Dip	5.00	3.33	2.65
LT1280ACSW-ND	Low Power 5V, RS232 Dual Driver/Receiver	18-SOIC	5.50	3.67	2.90
LT1280ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	18-SOIC	5.50	3.67	2.90
LT1281ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	16-Dip	5.00	3.33	2.65
LT1281ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	16-SOIC	5.50	3.67	2.90
LT1331CG-ND	5V/3V, RS232 Xcvr. with 1 Rcvr Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1331CG#PBF-ND	5V/3V, RS232 Xcvr. with 1 Rcvr Active in Shutdown*	28-SSOP	8.13	5.42	4.25
LT1331CNW-ND	5V/3V, RS232 Xcvr. with 1 Rcvr Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1341CSW-ND	5V, RS232, 3 Driver/5 Receiver	28-SOIC	7.38	4.92	3.95
LT1341CSW#PBF-ND	5V, RS232, 3 Driver/5 Receiver*	28-SOIC	7.38	4.92	3.95
LT1342CG-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic	28-SSOP	7.75	5.17	4.20
LT1342CG#PBF-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic*	28-SSOP	7.75	5.17	4.20
LT1381CS#PBF-ND	5V, RS232, Dual Driver/Receiver*	16-SOIC	3.80	2.53	2.00
LT1537CG-ND	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	6.00	4.00	3.40
LT1780CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	18-Dip	5.25	3.49	2.95
LT1780CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	18-SOIC	5.75	3.82	3.25
LT1781CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-Dip	5.25	3.49	2.95
LT1781CS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	5.63	3.74	3.15
LT1781CSW-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.75	3.82	3.25
LT1781CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	5.75	3.82	3.25
LT1781IS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	7.00	4.65	3.75
LTC1327CNW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-Dip	8.75	5.85	4.70
LTC1327CSW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1337CG#PBF-ND	5V, 3 Driver/5 Receiver RS232 Transceiver*	28-SSOP	9.50	6.35	5.00
LTC1338CG-ND	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SSOP	10.13	6.75	5.65
LTC1338CG#PBF-ND	5V, 5 Driver/3 Receiver RS232 Transceiver*	28-SSOP	10.13	6.75	5.65
LTC1347CG#PBF-ND	5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SSOP	9.50	6.35	5.00
LTC1348CG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SSOP	8.75	5.85	4.80
LTC1348CSW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SOIC	8.13	5.45	4.50
LTC1348IG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SSOP	10.13	6.75	5.80
LTC1348ISW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-SOIC	9.38	6.25	5.35
LTC1348ISW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SOIC	9.38	6.25	5.35
LTC1349CG#PBF-ND	5V, LP, RS232, 3 Driver/5 Receiver Transceiver*	28-SSOP	9.50	6.35	5.00
LTC1350IG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	10.38	6.90	5.50

LINEAR TECHNOLOGY Digi-Reel® (Cont.) INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1350IG#PBF-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver*	28-SSOP	10.38	6.90	5.50
LTC1382CN-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-Dip	6.50	4.35	3.40
LTC1382CN#PBF-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown*	18-Dip	6.50	4.35	3.40
LTC1382CSW#PBF-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown*	18-SOIC	6.50	4.35	3.40
LTC1383CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-Dip	5.63	3.75	3.00
LTC1383CS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-SOIC	5.63	3.75	3.00
LTC1383IS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-SOIC	6.50	4.32	3.70
LTC1384CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	18-Dip	6.50	4.35	3.40
LTC1384CSW#PBF-ND	5V, RS232, LP 2 Driver/2 Receiver Transceiver*	18-SOIC	6.50	4.35	3.40
LTC1385CG#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	20-SSOP	7.25	4.85	3.85
LTC1385CN#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	18-Dip	6.50	4.35	3.40
LTC1385CSW#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	18-SOIC	6.50	4.35	3.40
LTC1386CS#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	16-SOIC	5.63	3.75	3.00
LTC2801CDE#PBF-ND	1.8V/5.5V LP, RS232, Single Transceiver*	12-DFN	3.20	2.29	1.88
LTC2802CDE#PBF-ND	1.8V/5.5V LP, RS232, Single Transceiver*	12-DFN	3.30	2.36	1.94
LTC2803CDHC#PBF-ND	1.8V/5.5V LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-DFN	3.80	2.71	2.24
LTC2803IDHC#PBF-ND	1.8V/5.5V LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-DFN	4.50	3.21	2.65
LTC2804CGN-1#PBF-ND	1.8V/5.5V LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-SSOP	3.90	2.79	2.29
LTC2804IGN-1#PBF-ND	1.8V/5.5V LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-SSOP	4.70	3.36	2.76
RS485/RS422					
LT1785ACS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	5.00	3.32	2.55
LT1785AIN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	5.63	3.75	3.00
LT1785AIS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	5.75	3.85	3.10
LT1785CN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	4.00	2.66	2.10
LT1785CS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	4.13	2.74	2.15
LT1785IN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	4.63	3.08	2.40
LT1785IS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	4.75	3.16	2.45
LT1791AIS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-SOIC	6.38	4.25	3.40
LT1791CN#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-Dip	4.38	2.91	2.30
LT1791CS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-SOIC	4.50	2.99	2.35
LT1791IS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	5.13	3.41	2.65
LTC485CN8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface*	8-Dip	2.50	1.66	1.35
LTC485CS8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface*	8-SOIC	3.13	2.10	1.70
LTC485IS8#PBF-ND	Low Pwr. RS485 Transcvr./Receiver Interface* ***NEW!***	8-SOIC	4.50	2.99	2.30
LTC486CN#PBF-ND	Low Power Quad RS485 Driver*	16-Dip	7.10	4.72	3.70
LTC486CSW#PBF-ND	Low Power Quad RS485 Driver*	16-SOIC	8.10	5.38	4.25
LTC487CN#PBF-ND	Low Power Quad RS485 Driver*	16-Dip	7.10	4.72	3.70
LTC487CSW#PBF-ND	Low Power Quad RS485 Driver*	16-SOIC	8.10	5.38	4.25
LTC488CN#PBF-ND	Low Power Quad RS485 Receiver*	16-Dip	6.50	4.33	3.70
LTC488CSW#PBF-ND	Low Power Quad RS485 Receiver*	16-SOIC	7.50	5.00	4.25
LTC489CN#PBF-ND	Low Power Quad RS485 Receiver*	16-Dip	7.10	4.72	3.70
LTC489CSW#PBF-ND	Low Power Quad RS485 Receiver*	16-SOIC	8.10	5.38	4.25
LTC490CN8#PBF-ND	Low Power RS485 Transceiver/Receiver*	8-Dip	4.80	3.19	2.50
LTC490CS8#PBF-ND	Low Power RS485 Transceiver/Receiver*	8-SOIC	5.90	3.92	3.05
LTC490IS8#PBF-ND	Low Power RS485/RS422 Transceiver*	8-SOIC	6.70	4.45	3.45
LTC491CN#PBF-ND	Low Power RS485 Transceiver/Receiver*	14-Dip	5.30	3.52	2.80
LTC491CS#PBF-ND	Low Power RS485 Transceiver/Receiver*	14-SOIC	5.88	3.92	3.25
LTC491IS-ND	Low Power RS485/RS422 Transceiver	14-SOIC	7.80	5.18	4.05
LTC491IS#PBF-ND	Low Power RS485/RS422 Transceiver*	14-SOIC	7.80	5.18	4.05
LTC1480CN8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver*	8-Dip	4.75	3.16	2.65
LTC1480CS8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver*	8-SOIC	5.13	3.41	2.75
LTC1480IS8#PBF-ND	3.3V, Ultra LP RS485 Transceiver, Ind. Temp.*	8-SOIC	6.63	4.40	3.55
LTC1481CN8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-Dip	2.75	1.85	1.45
LTC1481CS8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-SOIC	3.38	2.25	1.80
LTC1481IS8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-SOIC	4.38	2.91	2.40
LTC1482CMS8-ND	Low Power RS485 Transceiver with Carrier Detect	8-MSOP	4.88	3.25	2.55
LTC1482CMS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect*	8-MSOP	4.88	3.25	2.55
LTC1482CS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect*	8-SOIC	4.13	2.75	2.15
LTC1483CN8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-Dip	2.75	1.85	1.55
LTC1483CS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-SOIC	3.38	2.25	1.90
LTC1483IS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-SOIC	4.38	2.91	2.40
LTC1484CMS8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-MSOP	4.25	2.85	2.20
LTC1484CN8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-Dip	3.38	2.25	1.75
LTC1484CS8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-SOIC	3.50	2.35	1.80
LTC1484IS8#PBF-ND	LP RS485 Transceiver with Rcvr Fail Safe, Ind. Temp.*	8-SOIC	4.63	3.10	2.45
LTC1485CN8#PBF-ND	Differential Bus Transceiver*	8-Dip	3.20	2.13	1.70
LTC1485CS8#PBF-ND	Differential Bus Transceiver*	8-SOIC	3.60	2.40	1.90
LTC1487CS8#PBF-ND	RS485 Transceiver with Low EMI, Shutdown*	8-SOIC	3.38	2.25	1.90
LTC1518CS#PBF-ND	High Speed Prec. Delay RS485 Quad Line Receiver*	16-SOIC	10.13	6.73	5.80
LTC1518IS#PBF-ND	High Speed Prec. Delay RS485 Quad Line Receiver*	16-SOIC	11.63	7.75	6.20
LTC1519CS#PBF-ND	HS Precision Delay RS485 Quad Line Receiver*	16-SOIC	10.13	6.75	5.80
LTC1519IS#PBF-ND	HS Precision Delay RS485 Quad Line Receiver*	16-SOIC	11.63	7.75	6.20
LTC1535ISW#PBF-ND	Isolated RS485 Transceiver*	28-SOIC	12.75	8.47	6.50
LTC1685CS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	5.63	3.74	3.15
LTC1685IS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	6.50	4.32	3.40
LTC1686CS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	8.38	5.57	4.50
LTC1686IS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	9.63	6.40	5.00
LTC1687CS#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	14-SOIC	8.38	5.57	4.50
LTC1687IS#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	14-SOIC	9.63	6.40	5.00
LTC1688CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver*	16-SOIC	10.13	6.73	5.25
LTC1688IS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.*	16-SOIC	11.63	7.75	6.20
LTC1689CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver*	16-SOIC	10.13	6.73	5.25
LTC1689IS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.*	16-SOIC	11.63	7.75	6.20
LTC1690CS8#PBF-ND	LP Driver/Receiver with Fail-Safe Receiver Output*	8-SOIC	3.50	2.35	1.80
LTC2850CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	8-DFN	2.90	2.07	1.71
LTC2850IMS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	8-MSOP	3.48	2.48	2.04
LTC2850IS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	8-SOIC	3.48	2.48	2.04
LTC2851CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	8-DFN	3.10	2.21	1.82
LTC2851IDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	8-DFN	3.70	2.64	2.18
LTC2851IMS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	8-MSOP	3.70	2.64	2.18
LTC2851IS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	8-SOIC	3.70	2.64	2.18
LTC2852CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-DFN	3.10	2.21	1.82
LTC2852CMS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2852CS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	14-SOIC	3.10	2.21	1.82
LTC2852IDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	10-DFN	3.70	2.64	2.18
LTC2852IMS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	10-MSOP	3.70	2.64	2.18
LTC2852IS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver, Ind. Temp.*	14-SOIC	3.70	2.64	2.18
LTC2854CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-DFN	3.18	2.27	1.87
LTC2854HDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-DFN	4.20	3.00	2.47
LTC2855CDE#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	12-DFN	3.48	2.48	2.04
LTC2855CGN#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	16-SSOP	3.48	2.48	2.04
LTC2855HDE#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	12-DFN	4.60	3.29	2.71
LTC2855IGN#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	16-SSOP	4.18	2.98	2.46
LTC2856CMS8-1#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	2.90	2.07	1.71
LTC2856IMS8-1#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.48	2.48	2.04
LTC2856CMS8-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	2.90	2.07	1.71

* *RoHS Compliant*

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(Continued)

INTERFACE

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2856IMS8-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.48	2.48	2.04
LTC2857CMS8-1#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.10	2.21	1.82
LTC2857IMS8-1#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.70	2.64	2.18
LTC2857CMS8-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.10	2.21	1.82
LTC2857IMS8-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	8-MSOP	3.70	2.64	2.18
LTC2858CMS-1#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2858CMS-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2858IMS-2#PBF-ND	20Mbps 15kV RS485/RS422 Transceiver*	10-MSOP	3.70	2.64	2.18
LTC2859CDD#PBF-ND	20Mbps RS485 Transceiver*	10-DFN	3.18	2.27	1.87
LTC2859IDD#PBF-ND	20Mbps RS485 Transceiver*	10-DFN	3.83	2.73	2.25
LTC2861CGN#PBF-ND	20Mbps RS485 Transceiver*	16-SSOP	3.48	2.48	2.04
LTC2861IGN#PBF-ND	20Mbps RS485 Transceiver*	16-SSOP	4.18	2.98	2.46
CAN — RoHS Compliant					
LT1796CS8#PBF-ND	Overvoltage Fault Protected CAN Transceiver	8-SOIC	3.00	2.00	1.65
Multiprotocol					
LTC1321CSW#PBF-ND	RS485/RS232/EIA562 Xcvr./Receiver, Ind. Temp.*	24-SOIC	8.75	5.85	4.65
LTC1322CSW#PBF-ND	RS485/RS232/EIA562 Transceiver/Receiver*	24-SOIC	10.00	6.65	5.35
LTC1334CG#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver*	28-SSOP	13.00	8.64	7.45
LTC1334CNW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver*	28-Dip	12.25	8.15	7.00
LTC1334CSW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver*	28-SOIC	12.25	8.15	7.00
LTC1334IG#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver*	28-SSOP	15.00	9.96	8.55
LTC1334ISW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver*	28-SOIC	14.25	9.50	8.15
LTC1343CGW#PBF-ND	Software Selectable Multiprotocol Transceiver*	44-SSOP	23.50	15.65	13.40
LTC1343IGW#PBF-ND	Software Selectable Multiprotocol Transceiver*	44-SSOP	27.00	17.93	14.40
LTC1344ACG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344ACG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	13.63	9.05	6.82
LTC1344CG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344CG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	13.63	9.05	6.82
LTC1344IG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	15.63	10.38	8.35
LTC1345CNW-ND	Single Supply V.35 Differential Transceiver	28-Dip	13.88	9.25	7.40
LTC1346ACSW#PBF-ND	10mbps DCE/DTE V.35 Transceiver*	24-SOIC	12.38	8.25	7.10
LTC1387CG#PBF-ND	5V, Single RS232/RS485 Transceiver*	20-SSOP	9.13	6.10	5.20
LTC1387CSW#PBF-ND	5V, Single RS232/RS485 Transceiver*	20-SOIC	8.50	5.65	4.85
LTC1387IG#PBF-ND	5V, Single RS232/RS485 Transceiver Ind. Temp.*	20-SSOP	10.50	7.00	6.00
LTC1387ISW#PBF-ND	5V, Single RS232/RS485 Transceiver Ind. Temp.*	20-SOIC	9.75	6.50	5.60
LTC1543CG#PBF-ND	Software-Selectable Multiprotocol Transceiver*	28-SSOP	14.88	9.88	7.45
LTC1544CG#PBF-ND	Software-Selectable Multiprotocol Transceiver*	28-SSOP	12.25	8.14	6.15
LTC1545CG-ND	Software-Selectable Multiprotocol Transceiver	36-SSOP	14.38	9.55	7.20
LTC1545CG#PBF-ND	Software-Selectable Multiprotocol Transceiver*	36-SSOP	14.38	9.55	7.20
LTC1546CG#PBF-ND	Software-Selectable Multiprotocol Transceiver*	28-SSOP	23.75	15.77	12.20
LTC2844CG#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	28-SSOP	11.88	7.89	6.15
LTC2845CG#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	36-SSOP	13.88	9.22	7.20
LTC2845CUHF#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	38-QFN	14.38	9.60	8.20
LTC2845IUHF#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	38-QFN	17.00	11.35	9.70
LTC2846CG#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	36-SSOP	23.75	16.96	13.97
LTC2847IUHF#PBF-ND	3.3V Software-Selectable Multiprotocol Transceiver*	38-QFN	25.63	17.10	14.65
I^2C and SMBus					
LTC1694CS5#TRMPBFCT-ND	Dual SMBus Accelerator*	TSOT-23-5	3.16	2.83	2.55
LTC1694CS5#TRMPBFTR-ND	Dual SMBus Accelerator*	TSOT-23-5	706.25/500		
LTC1694-1IS5#TRMPBFCT-ND	SMBus/I^2C Accelerator*	TSOT-23-5	3.72	3.33	3.00
LTC1694-1IS5#TRMPBFTR-ND	SMBus/I^2C Accelerator*	TSOT-23-5	875.00/500		
LTC4300-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer*	8-MSOP	3.50	2.35	2.00
LTC4300A-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer*	8-MSOP	3.50	2.35	2.00
LTC4301CDD#PBF-ND	Hot Swappable 2-Wire Bus Buffer*	8-DFN	4.00	2.66	2.20
LTC4301CMS8#PBF-ND	Hot Swappable 2-Wire Bus Buffer*	8-MSOP	3.88	2.58	2.10
LTC4301LCMS8#PBF-ND	Hot Swappable 2-Wire Bus Buffer*	8-MSOP	4.00	2.86	2.35
LTC4302CMS-1#PBF-ND	Addressable 2-Wire Bus Buffer*	10-MSOP	5.00	3.32	2.70
LTC4303CMS8#PBF-ND	Hot Swappable 2-Wire Bus Buffer*	8-MSOP	4.20	3.00	2.47
LTC4304CMS#PBF-ND	Hot Swappable 2-Wire Bus Buffer*	10-MSOP	4.40	3.14	2.59
LTC4305CGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-SSOP	5.60	4.00	3.29
LTC4305IGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-SSOP	6.70	4.79	3.94
LTC4306CGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-SSOP	7.00	5.00	4.12
LTC4306CUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-QFN	7.10	5.07	4.18
LTC4306IGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-SSOP	8.40	6.00	4.94
LTC4306IUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-QFN	8.50	6.07	5.00
LTC4307CDD-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-DFN	4.30	3.07	2.53
LTC4307CMS8-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-MSOP	4.30	3.07	2.53
LTC4307IDD#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-DFN	5.15	3.68	3.03
LTC4307IDD-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-DFN	5.15	3.68	3.03
LTC4307IMS8#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-MSOP	5.15	3.68	3.03
LTC4307IMS8-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-MSOP	5.15	3.68	3.03
LTC4308CMS8#PBF-ND	Low Volt., Level Shifting Hot Swap 2-Wire Bus Buffer*	8-MSOP	4.30	3.07	2.53
LTC4308IDD#PBF-ND	Low Volt., Level Shifting Hot Swap 2-Wire Bus Buffer*	8-DFN	5.15	3.68	3.03
LTC4308IMS8#PBF-ND	Low Volt., Level Shifting Hot Swap 2-Wire Bus Buffer*	8-MSOP	5.15	3.68	3.03
LTC4309CDE#PBF-ND	Level Shifting Hot Swappable 2-Wire Bus Buffer*	12-DFN	4.50	3.21	2.65
LTC4309CGN#PBF-ND	Level Shifting Hot Swappable 2-Wire Bus Buffer*	16-SSOP	4.50	3.21	2.65
LTC4311CDC#TRMPBFCT-ND	Low Voltage Dual I^2C/SMBus Accelerator*	6-DFN	3.81	3.40	3.06
LTC4311CDC#TRMPBFTR-ND	Low Voltage Dual I^2C/SMBus Accelerator*	6-DFN	940.00/500		
LTC4311CSC6#TRMPBFCT-ND	Low Voltage Dual I^2C/SMBus Accelerator*	SC70-6	3.81	3.40	3.06
LTC4311CSC6#TRMPBFTR-ND	Low Voltage Dual I^2C/SMBus Accelerator*	SC70-6	940.00/500		
LTC4311IDC#TRMPBFCT-ND	Low Voltage Dual I^2C/SMBus Accelerator*	6-DFN	4.54	4.05	3.65
LTC4311IDC#TRMPBFTR-ND	Low Voltage Dual I^2C/SMBus Accelerator*	6-DFN	1130.00/500		
LTC4311ISC6#TRMPBFCT-ND	Low Voltage Dual I^2C/SMBus Accelerator*	SC70-6	4.54	4.05	3.65
LTC4311ISC6#TRMPBFTR-ND	Low Voltage Dual I^2C/SMBus Accelerator*	SC70-6	1130.00/500		
SIM Interface					
LTC1555IGN-ND	SIM Power Supply and Level Translator	16-SSOP	6.50	4.32	3.70
LTC1555IGN#PBF-ND	SIM Power Supply and Level Translator*	16-SSOP	6.50	4.32	3.70
LTC1556CGN-ND	SIM Power Supply and Level Translator with LDO Reg.	20-SSOP	6.25	4.15	3.60
LTC1755EGN#PBF-ND	Smart Card Interface*	24-SSOP	5.38	3.57	2.70
LTC1756EGN#PBF-ND	Smart Card Interface*	16-SSOP	4.88	3.24	2.45
LTC1955EUH-ND	Dual Smart Card Interface with Serial Control	32-QFN	4.90	3.50	2.88
LTC1955EUH#PBF-ND	Dual Smart Card Interface with Serial Control*	32-QFN	4.90	3.50	2.88
LTC4555EUD#PBF-ND	SIM Power Supply and Level Translator*	16-QFN	2.40	1.71	1.41

SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1025ACN8#PBF-ND	MPU Thermocouple Cold Junction Compensator*	8-Dip	9.20	6.11	4.75
LT1025CN8#PBF-ND	MPU Thermocouple Cold Junction Compensator*	8-Dip	5.10	3.39	2.65
LT1203CN8#PBF-ND	2-Input, 150MHz Video Multiplexer*	8-Dip	3.13	2.08	1.57
LT1203CS8-ND	2-Input, 150MHz Video Multiplexer	8-SOIC	3.38	2.25	1.69
LT1203CS8#PBF-ND	2-Input, 150MHz Video Multiplexer*	8-SOIC	3.38	2.25	1.69
LT1204CSW#PBF-ND	4-Input Video Mux with 75MHz Current Feedback*	16-SOIC	9.75	6.50	5.40

SPECIALIZED ICs

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1205CS-ND	4-Input, 150MHz, Dual Video Multiplexer	16-SOIC	5.38	3.57	2.70
LT1205CS#PBF-ND	4-Input, 150MHz, Dual Video Multiplexer*	16-SOIC	5.38	3.57	2.70
LT1675CGN#PBF-ND	Triple, High Speed RGB Multiplexer*	16-SSOP	6.63	4.40	3.55
LT1675CMS8-1#PBF-ND	Single, High Speed RGB Multiplexer*	8-MSOP	4.50	2.99	2.30
LT1675CS8-1#PBF-ND	Single, High Speed RGB Multiplexer*	8-SOIC	4.13	2.74	2.07
LTC1041CN8#PBF-ND	CMOS Bang-Bang Controller*	8-Dip	3.38	2.25	1.90
LTC1043CN#PBF-ND	Dual, Precision Instr. Switched-Cap Building Block*	18-Dip	5.70	3.79	2.95
LTC1043CSW#PBF-ND	Dual, Precision Instr. Switched-Cap Building Block*	18-SOIC	6.00	3.99	3.10
LTC1045CN#PBF-ND	Prog. µPower Hex Translator/Receiver/Driver*	20-Dip	5.25	3.50	2.95
LTC1045CSW#PBF-ND	Prog. µpower Hex Translator/Receiver/Driver*	20-SOIC	8.25	5.50	4.75
LTC1923EUH#PBF-ND	High Efficiency Thermoelectric Cooler Controller*	32-QFN	39.30	28.07	23.12
LTK001ACN8#PBF-ND	Thermocouple Compensated IC/Amp Kit (.5°C Error)*	8-Dip	9.44	—	—
LTK001CN8#PBF-ND	Thermocouple Compensated IC/Amp Kit (2°C Error)*	8-Dip	4.94	—	—

CIRCUIT PROTECTION

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ESD/EMI Protection					
ECLAMP2342NCT-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	1.01	.69	.59
ECLAMP2342NTR-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	1579.50/3,000		
ECLAMP2357NCT-ND	EMI Filter/ESD Prot. for Secure Digital Card Interface	16-QFN	1.22	.83	.71
ECLAMP2357NTR-ND	EMI Filter/ESD Prot. for Secure Digital Card Interface	16-QFN	1903.50/3,000		
ECLAMP2465TCT-ND	ESD/EMI Protection for SIM Card ***NEW!***	SLP1713P8T	.65	.44	.38
ECLAMP2465TTR-ND	ESD/EMI Protection for SIM Card ***NEW!***	SLP1713P8T	1012.50/3,000		
Surge Protection					
LC01-6CT-ND	Low Cap. TVS for HS Telecommunication Systems	16-SOIC	7.15	4.82	4.13
LC01-6TR-ND	Low Cap. TVS for HS Telecommunication Systems	16-SOIC	3712.50/1,000		
LC03-3.3CT-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	2.86	1.93	1.65
LC03-3.3TR-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	742.50/500		
LC03-6CT-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	2.47	1.67	1.43
LC03-6TR-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	641.25/500		
LCDA12C-1CT-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	2.05	1.39	1.19
LCDA12C-1TR-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	3199.50/3,000		
LCDA24C-1CT-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	.94	.63	.54
LCDA24C-1TR-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	1458.00/3,000		
RCLAMP0502BCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	SC-75	.57	.39	.33
RCLAMP0502BTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	SC-75	891.00/3,000		
RCLAMP0502NCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	6-SLP	.62	.42	.36
RCLAMP0502NTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	6-SLP	972.00/3,000		
RCLAMP0504FCT-ND	Low Capacitance TVS Array	SC-70-6	.88	.60	.51
RCLAMP0504FTR-ND	Low Capacitance TVS Array	SC-70-6	1377.00/3,000		
RCLAMP0504MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.25	.84	.72
RCLAMP0504MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	324.00/500		
RCLAMP0504NCT-ND	Low Capacitance TVS Diode Array	6-SLP	1.09	.74	.63
RCLAMP0504NTR-ND	Low Capacitance TVS Diode Array	6-SLP	1701.00/3,000		
RCLAMP0504PCT-ND	Low Capacitance TVS Array ***NEW!***	SLP1616P6	.83	.56	.48
RCLAMP0504PTR-ND	Low Capacitance TVS Array ***NEW!***	SLP1616P6	1296.00/3,000		
RCLAMP0504SCT-ND	Low Capacitance TVS Array	SOT-23-6	.68	.46	.39
RCLAMP0504STR-ND	Low Capacitance TVS Array	SOT-23-6	1053.00/3,000		
RCLAMP0508MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	2.47	1.67	1.43
RCLAMP0508MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	641.25/500		
RCLAMP0514MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.14	.77	.66
RCLAMP0514MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	297.00/500		
RCLAMP0521PCT-ND	Ultra-Low Cap. TVS 1-Line ESD/CDE Protection	2-SLP	.49	.34	.29
RCLAMP0521PTR-ND	Ultra-Low Cap. TVS 1-Line ESD/CDE Protection	2-SLP	769.50/3,000		
RCLAMP0524JCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	8-SLP	.75	.51	.44
RCLAMP0524JTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	8-SLP	1174.50/3,000		
RCLAMP0524PCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	10-SLP	.86	.58	.50
RCLAMP0524PTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	10-SLP	1336.50/3,000		
RCLAMP0544MCT-ND	TVS Array for HDMI Interface Protection	10-MSOP	1.14	.77	.66
RCLAMP0544MTR-ND	TVS Array for HDMI Interface Protection	10-MSOP	297.00/500		
RCLAMP2504NCT-ND	2.5V Low Capacitance TVS Array	10-SLP	1.95	1.32	1.13
RCLAMP2504NTR-ND	2.5V Low Capacitance TVS Array	10-SLP	3037.50/3,000		
RCLAMP2504PCT-ND	2.5V Low Capacitance TVS Array	6-SLP	.70	.47	.40
RCLAMP3304NCT-ND	3.3V Low Capacitance TVS Array	10-SLP	1.51	1.02	.87
RCLAMP3304NTR-ND	3.3V Low Capacitance TVS Array	10-SLP	2349.00/3,000		
RCLAMP3304PCT-ND	3.3V Low Capacitance TVS Array	6-SLP	.70	.48	.41
RCLAMP3304PTR-ND	3.3V Low Capacitance TVS Array	6-SLP	1093.50/3,000		
RCLAMP7002MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	2.03	1.37	1.17
RCLAMP7002MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	526.50/500		
SD05CT-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	.39	.27	.23
SD05TR-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	607.50/3,000		
SD05CCT-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	.52	.35	.30
SD05CTR-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	810.00/3,000		
SD24CCT-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	.52	.35	.30
SD24CTR-ND	Single Line TVS Diode for Portable ESD Protection	SOD-323	810.00/3,000		
SDC15CT-ND	TVS Diode Array for ESD Prot. of 12V Data/Power Lines	SOT-23	.57	.39	.33
SDC15TR-ND	TVS Diode Array for ESD Prot. of 12V Data/Power Lines	SOT-23	891.00/3,000		
SL05CT-ND	Low Capacitance TVS Diode for HS Data Interfaces	SOT-23	.60	.41	.35
SL05TR-ND	Low Capacitance TVS Diode for HS Data Interfaces	SOT-23	931.50/3,000		
SLVU2.8-4CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	2.73	1.84	1.58
SLVU2.8-4TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	708.75/500		
SLVU2.8-8CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	3.90	2.63	2.25
SLVU2.8-8TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	1012.50/500		
SM05CT-ND	TVS Diode Array	SOT-23	.34	.23	.20
SM05TR-ND	TVS Diode Array	SOT-23	526.50/3,000		
SM12CT-ND	TVS Diode Array	SOT-23	.34	.23	.20
SM12TR-ND	TVS Diode Array	SOT-23	526.50/3,000		
SM15CT-ND	TVS Diode Array	SOT-23	.34	.23	.20
SM15TR-ND	TVS Diode Array	SOT-23	526.50/3,000		
SM24CT-ND	TVS Diode Array	SOT-23	.34	.23	.20
SM24TR-ND	TVS Diode Array	SOT-23	526.50/3,000		
SM36CT-ND	TVS Diode Array	SOT-23	.34	.23	.20
SM36TR-ND	TVS Diode Array	SOT-23	526.50/3,000		
SM712CT-ND	Asymmetrical TVS Diode for Common Mode RS-485	SOT-23	1.25	.84	.72
SM712TR-ND	Asymmetrical TVS Diode for Common Mode RS-485	SOT-23	1944.00/3,000		
SMF05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	.44	.30	.26
SMF05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	688.50/3,000		
SMS05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.94	.63	.54
SMS05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1458.00/3,000		
SMS05CT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.88	.60	.51
SMS05TR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1377.00/3,000		
SMS12CT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.88	.60	.51
SMS12TR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1377.00/3,000		
SMS12CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.94	.63	.54

* *RoHS Compliant*

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(Continued)

SEMTECH Digi-Reel® (Cont.) CIRCUIT PROTECTION

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SMS12CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1458.00/3,000		
SR05CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.43	.97	.83
SR05TR-ND	Low Capacitance TVS Diode Array	SOT-143	2227.50/3,000		
SR12CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.30	.88	.75
SR12TR-ND	Low Capacitance TVS Diode Array	SOT-143	2025.00/3,000		
SR3.3CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.43	.97	.83
SR3.3TR-ND	Low Capacitance TVS Diode Array	SOT-143	2227.50/3,000		
SR70CT-ND	Low Capacitance TVS Diode Array	SOT-143	.78	.53	.45
SR70TR-ND	Low Capacitance TVS Diode Array	SOT-143	1215.00/3,000		
SRDA05-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	2.03	1.37	1.17
SRDA05-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	526.50/500		
SRDA3.3-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	2.08	1.40	1.20
SRDA3.3-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	540.00/500		
SRV05-4CT-ND	Low Capacitance TVS Diode Array	SOT-23-6	.86	.58	.50
SRV05-4TR-ND	Low Capacitance TVS Diode Array	SOT-23-6	1336.50/3,000		
STF203-15CT-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	.55	.37	.32
STF203-15TR-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	850.50/3,000		
STF203-22CT-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	.55	.37	.32
STF203-22TR-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	850.50/3,000		
STF203-33CT-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	.55	.37	.32
STF203-33TR-ND	USB Upstream Port Filter and TVS for EMI Filtering	SC70-6	850.50/3,000		
STF701CT-ND	T-Filter with TVS Diode Array for EMI Filtering	SC70-5	.81	.55	.47
STF701TR-ND	T-Filter with TVS Diode Array for EMI Filtering	SC70-5	1255.50/3,000		
TCLAMP0602NCT-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	2.76	1.86	1.59
TCLAMP0602NTR-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	4293.00/3,000		
TCLAMP2502NCT-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom*	10-SLP	3.43	2.31	1.98
TCLAMP2502NTR-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom*	10-SLP	5346.00/3,000		
TCLAMP3302NCT-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	3.22	2.17	1.86
TCLAMP3302NTR-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	5022.00/3,000		
TVSETH-SK-DK09-ND	TVS Ethernet RCLAMP2504N/TCLAMP2502N Kit ***NEW!***	—	14.00	—	—
UCLAMP0501HCT-ND	1-Line ESD Protection Array	SOD-523	.39	.27	.23
UCLAMP0501HTR-ND	1-Line ESD Protection Array	SOD-523	607.50/3,000		
UCLAMP0502PCT-ND	2-Line ESD Protection Array	3-SLP	.39	.27	.23
UCLAMP0502PTR-ND	2-Line ESD Protection Array	3-SLP	607.50/3,000		
UCLAMP0504ACT-ND	4-Line ESD Protection Array	SC-89-6	.49	.34	.29
UCLAMP0504ATR-ND	4-Line ESD Protection Array	SC-89-6	769.50/3,000		
UCLAMP0505ACT-ND	5-Line ESD Protection Array	SC-89-6	.52	.35	.30
UCLAMP0505ATR-ND	5-Line ESD Protection Array	SC-89-6	810.00/3,000		
UCLAMP0506ACT-ND	5-Line ESD Protection Array	SC-89-6	.60	.41	.35
UCLAMP0506ATR-ND	5-Line ESD Protection Array	SC-89-6	931.50/3,000		
UCLAMP0511PCT-ND	1-Line ESD Protection Array	2-SLP	.52	.35	.30
UCLAMP0511PTR-ND	1-Line ESD Protection Array	2-SLP	810.00/3,000		
UCLAMP1201HCT-ND	1-Line ESD Protection Array	SOD-523	.39	.27	.23
UCLAMP1201HTR-ND	1-Line ESD Protection Array	SOD-523	607.50/3,000		
UCLAMP1201PCT-ND	1-Line ESD Protection Array	SLP1006P2	.39	.27	.23
UCLAMP1201PTR-ND	1-Line ESD Protection Array	SLP1006P2	607.50/3,000		
UCLAMP1211PCT-ND	1-Line ESD Protection Array	2-SLP	.52	.35	.30
UCLAMP1211PTR-ND	1-Line ESD Protection Array	2-SLP	810.00/3,000		
UCLAMP3301DCT-ND	Low Voltage for ESD and CDE Protection	SOD-323	.52	.35	.30
UCLAMP3301DTR-ND	Low Voltage for ESD and CDE Protection	SOD-323	810.00/3,000		
UCLAMP3301HCT-ND	Low Voltage for ESD and CDE Protection	SOD-523	.44	.30	.26
UCLAMP3301HTR-ND	Low Voltage for ESD and CDE Protection	SOD-523	688.50/3,000		
UCLAMP3304ACT-ND	4-Line ESD Protection Array	SC-89-6	.57	.39	.33
UCLAMP3304ATR-ND	4-Line ESD Protection Array	SC-89-6	891.00/3,000		
UCLAMP3311PCT-ND	1-Line ESD/CDE Protection Array	2-SLP	.49	.34	.29
UCLAMP3311PTR-ND	1-Line ESD/CDE Protection Array	2-SLP	769.50/3,000		
UCLAMP3324PCT-ND	Low Voltage TVS for ESD Protection	8-SLP	.86	.58	.50
UCLAMP3324PTR-ND	Low Voltage TVS for ESD Protection	8-SLP	1336.50/3,000		

SEMTECH Digi-Reel® POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Charge Pumps				
SC1462ISKCT-ND	High Output Current Charge Pump Doubler	SOT-23-6	1.30	.88	.75
SC1462ISKTR-ND	High Output Current Charge Pump Doubler	SOT-23-6	2025.00/3,000		
	Switching Regulators				
SC120SKCT-ND	Low Voltage Synchronous Boost Regulator ***NEW!***	SOT23-6	1.20	.81	.69
SC120SKTR-ND	Low Voltage Synchronous Boost Regulator ***NEW!***	SOT23-6	1863.00/3,000		
SC120ULCT-ND	Low Voltage Synchronous Boost Regulator ***NEW!***	6-MLPD	1.35	.91	.78
SC120ULTR-ND	Low Voltage Synchronous Boost Regulator ***NEW!***	6-MLPD	2106.00/3,000		
SC183CULCT-ND	2A, 0.8V~3.3V Synchronous Buck Regulator ***NEW!***	16-MLPQ	.94	.63	.54
SC183CULTR-ND	2A, 0.8V~3.3V Synchronous Buck Regulator ***NEW!***	16-MLPQ	1458.00/3,000		
SC189CSKCT-ND	1.5A, 1.2V Synchronous Buck Regulator ***NEW!***	SOT23-5	.81	.55	.47
SC189CSKTR-ND	1.5A, 1.2V Synchronous Buck Regulator ***NEW!***	SOT23-5	1255.50/3,000		
SC189CULCT-ND	1.5A, 1.2V Synchronous Buck Regulator ***NEW!***	6-MLPQ	.86	.58	.50
SC189CULTR-ND	1.5A, 1.2V Synchronous Buck Regulator ***NEW!***	6-MLPQ	1336.50/3,000		
SC189LSKCT-ND	1.5A, 1.8V Synchronous Buck Regulator ***NEW!***	SOT23-5	.81	.55	.47
SC189LSKTR-ND	1.5A, 1.8V Synchronous Buck Regulator ***NEW!***	SOT23-5	1255.50/3,000		
SC189LULCT-ND	1.5A, 1.8V Synchronous Buck Regulator ***NEW!***	6-MLPD	.86	.58	.50
SC189LULTR-ND	1.5A, 1.8V Synchronous Buck Regulator ***NEW!***	6-MLPD	1336.50/3,000		
SC189ZSKCT-ND	1.5A, 3.3V Synchronous Buck Regulator ***NEW!***	SOT23-5	.81	.55	.47
SC189ZSKTR-ND	1.5A, 3.3V Synchronous Buck Regulator ***NEW!***	SOT23-5	1255.50/3,000		
SC189ZULCT-ND	1.5A, 3.3V Synchronous Buck Regulator ***NEW!***	6-MLPQ	.86	.58	.50
SC189ZULTR-ND	1.5A, 3.3V Synchronous Buck Regulator ***NEW!***	6-MLPQ	1336.50/3,000		
SC190BIMLCT-ND	Synchronous Buck Converter with Programmable Output	10-MLP	2.34	1.58	1.35
SC190BIMLTR-ND	Synchronous Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC190CIMLCT-ND	Synchronous Buck Converter with Programmable Output	10-MLP	2.34	1.58	1.35
SC190CIMLTR-ND	Synchronous Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC192IMLCT-ND	2.7V~5.5V Input Synchronous Buck Converter	10-MLPD	2.60	1.75	1.50
SC192IMLTR-ND	2.7V~5.5V Input Synchronous Buck Converter	10-MLPD	4050.00/3,000		
SC194AMLCT-ND	1A Sync. Buck Converter with Integrated Power Devices	10-MLP	4.13	2.79	2.39
SC194AMLTR-ND	1A Sync. Buck Converter with Integrated Power Devices	10-MLP	6439.50/3,000		
SC194BMLCT-ND	Selectable 3.6V/3.3V/3.0V/2.5V, 1A Sync. Buck Converter	10-MLP	4.13	2.79	2.39
SC194BMLTR-ND	Selectable 3.6V/3.3V/3.0V/2.5V, 1A Sync. Buck Converter	10-MLP	6439.50/3,000		
SC195ULCT-ND	500mA, 0.8V~3.3V Synchronous Buck Regulator ***NEW!***	8-MLPQ	.96	.65	.56
SC195ULTR-ND	500mA, 0.8V~3.3V Synchronous Buck Regulator ***NEW!***	8-MLPQ	1498.50/3,000		
SC196AMLCT-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Sync. Buck Converter	10-MLP	2.55	1.70	1.43
SC196ULCT-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Sync. Buck Converter	10-MLPD	2.65	1.79	1.53
SC196ULTR-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Sync. Buck Converter	10-MLPD	4131.00/3,000		
SC198AMLCT-ND	Dual DC/DC Buck Converter	20-MLPQ	2.70	1.80	1.52
SC198MLCT-ND	Dual DC/DC Buck Converter	20-MLPQ	2.70	1.80	1.52

SEMTECH Digi-Reel® (Cont.) POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC414MLCT-ND	6A Sync. Buck Regulator w/ Integrated FET ***NEW!***	28-MLPQ	4.89	3.29	2.82
SC414MLTR-ND	6A Sync. Buck Regulator w/ Integrated FET ***NEW!***	28-MLPQ	7614.00/3,000		
SC417MLCT-ND	10A Sync. Buck Regulator w/ Programmable LDO ***NEW!***	32-MLPQ	6.40	4.31	3.69
SC417MLTR-ND	10A Sync. Buck Regulator w/ Programmable LDO ***NEW!***	32-MLPQ	9963.00/3,000		
SC458IMLCT-ND	Complete Dual-Phase Low VOUT Pwr Supply Controller	44-MLP	6.92	4.66	3.99
SC458IMLTR-ND	Complete Dual-Phase Low VOUT Pwr Supply Controller	44-MLP	10773.00/3,000		
SC470IMLCT-ND	Sync. Buck Controller for Dynamic Load-Volt. Applications	16-MLPQ	2.55	1.72	1.47
SC470IMLTR-ND	Sync. Buck Controller for Dynamic Load-Volt. Applications	16-MLPQ	3969.00/3,000		
SC470ITSCT-ND	Sync. Buck Controller for Dynamic Load-Volt. Applications	14-TSSOP	2.55	1.72	1.47
SC470ITSTR-ND	Sync. Buck Controller for Dynamic Load-Volt. Applications	14-TSSOP	3307.50/2,500		
SC1485ITSCT-ND	Dual Sync. Buck Pseudo Fixed Freq. Pwr Supply Controller	28-TSSOP	3.59	2.42	2.07
SC1485ITSTR-ND	Dual Sync. Buck Pseudo Fixed Freq. Pwr Supply Controller	28-TSSOP	4657.50/2,500		
SC2440TECT-ND	2.5MHz Dual Switching Reg. with Integrated 2A Switches	16-TSSOP	3.04	2.05	1.76
SC2440TETR-ND	2.5MHz Dual Switching Reg. with Integrated 2A Switches	16-TSSOP	3948.75/2,500		
SC2443MLCT-ND	Dual Phase Synchronous Step-Down Controller	24-MLPQ	4.40	2.93	2.47
SC2446ITECT-ND	Dual Phase Single or Two Output Sync. Step-Down Cont.	28-TSSOP	3.43	2.31	1.98
SC2446ITETR-ND	Dual Phase Single or Two Output Sync. Step-Down Cont.	28-TSSOP	4455.00/2,500		
SC2463TSCT-ND	High Performance Quad Output Switching Regulator	28-TSSOP	4.19	2.82	2.42
SC2463TSTR-ND	High Performance Quad Output Switching Regulator	28-TSSOP	5433.75/2,500		
SC2544MLCT-ND	High Perf. Wide Input Range Dual Sync. Buck Controller	24-MLPQ	3.30	2.23	1.91
SC2544MLTR-ND	High Perf. Wide Input Range Dual Sync. Buck Controller	24-MLPQ	5143.50/3,000		
SC2544TSCT-ND	High Perf. Wide Input Range Dual Sync. Buck Controller	24-TSSOP	3.09	2.09	1.79
SC2544TSTR-ND	High Perf. Wide Input Range Dual Sync. Buck Controller	24-TSSOP	4016.25/2,500		
SC4502HMLCT-ND	1.4A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	2.31	1.56	1.34
SC4502HMLTR-ND	1.4A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	3604.50/3,000		
SC4503TSKCT-ND	1.3MHz Step-Up Switching Reg. with 1.4A Switch	TSOT-23-5	1.30	.88	.75
SC4503TSKTR-ND	1.3MHz Step-Up Switching Reg. with 1.4A Switch	TSOT-23-5	2025.00/3,000		
SC4508AMLCT-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	2.29	1.54	1.32
SC4508AMLTR-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	3564.00/3,000		
SC4518HSECT-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	1.40	.95	.81
SC4518HSETR-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	1822.50/2,500		
SC4519HSECT-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	2.60	1.75	1.50
SC4519HSETR-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	3375.00/2,500		
SC4524ASECT-ND	28V, 2A Step-Down Switching Regulator	8-SOIC	1.14	.77	.66
SC4524ASETR-ND	28V, 2A Step-Down Switching Regulator	8-SOIC	1485.00/2,500		
SC4524BSECT-ND	16V, 2A Step-Down Switching Regulator	8-SOIC	1.12	.76	.65
SC4524BSETR-ND	16V, 2A Step-Down Switching Regulator	8-SOIC	1451.25/2,500		
SC4524SECT-ND	30V, 2A Step-Down Switching Regulator	8-SOIC	1.85	1.25	1.07
SC4524SETR-ND	30V, 2A Step-Down Switching Regulator	8-SOIC	2396.25/2,500		
SC4525ASECT-ND	28V, 3A Step-Down Switching Regulator	8-SOIC	1.30	.88	.75
SC4525ASETR-ND	28V, 3A Step-Down Switching Regulator	8-SOIC	1687.50/2,500		
SC4620MLCT-ND	High Efficiency, 2.5A Sync. Step-Down DC/DC Regulator	20-MLPQ	2.83	1.88	1.59
	Linear Regulators				
SC553ISKCT-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1.12	.76	.65
SC553ISKTR-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1741.50/3,000		
SC560CULCT-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	.68	.46	.39
SC560CULTR-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	1053.00/3,000		
SC560DULCT-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	.65	.44	.37
SC560EULCT-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	.65	.44	.37
SC560EULTR-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	1014.00/3,000		
SC560HULCT-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	.68	.46	.39
SC560HULTR-ND	Dual Output Low Noise Ultra LDO Regulator	8-MLPQ	1053.00/3,000		
SC900AMLCT-ND	Prog. Penta Ultra LDO with RESET and I^2C Interface	20-MLPQ	2.60	1.75	1.50
SC900AMLTR-ND	Prog. Penta Ultra LDO with RESET and I^2C Interface	20-MLPQ	4050.00/3,000		
SC1453ISK1.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1.01	.69	.59
SC1453ISK1.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1579.50/3,000		
SC1453ISK2.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1.01	.69	.59
SC1453ISK2.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1579.50/3,000		
SC1453ISK3.3CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1.01	.69	.59
SC1453ISK3.3TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1579.50/3,000		
SC1453ISK18CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1.01	.69	.59
SC1453ISK18TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1579.50/3,000		
SC1565I5M2.5CT-ND	LDO 1.5A Regulator with Enable	TO-263-5	3.25	2.19	1.88
SC1565I5M2.5TR-ND	LDO 1.5A Regulator with Enable	TO-263-5	1350.00/800		
SC1565IS-1.8CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	1.40	.95	.81
SC1565IS-1.8TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	1822.50/2,500		
SC1565IS-2.5CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	1.40	.95	.81
SC1565IS-2.5TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	1822.50/2,500		
SC1565IST18CT-ND	LDO 1.5A Regulator with Enable	SOT-223	1.40	.95	.81
SC1565IST18TR-ND	LDO 1.5A Regulator with Enable	SOT-223	1822.50/2,500		
SC1565IST25CT-ND	LDO 1.5A Regulator with Enable	SOT-223	1.40	.95	.81
SC1565IST25TR-ND	LDO 1.5A Regulator with Enable	SOT-223	1822.50/2,500		
SC1566I5M1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.51	2.37	2.03
SC1566I5M1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1458.00/800		
SC1566I5M2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.59	2.42	2.07
SC1566I5M2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1490.40/800		
SC1566IM-1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.59	2.42	2.07
SC1566IM-1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263	1490.40/800		
SC1566IM-2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.59	2.42	2.07
SC1566IM-2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263	1490.40/800		
SC1592IMCT-ND	LDO High Performance Adj. Positive Voltage Regulator	TO-263-7	3.25	2.19	1.88
SC1592IMTR-ND	LDO High Performance Adj. Positive Voltage Regulator	TO-263-7	1350.00/800		
SC1592ISCT-ND	LDO High Performance Adj. Positive Voltage Reg. ***NEW!***	8-SOIC	1.82	1.23	1.05
SC1592ISTR-ND	LDO High Performance Adj. Positive Voltage Reg. ***NEW!***	8-SOIC	2362.50/2,500		
SC2595MLCT-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	2.55	1.72	1.47
SC2595MLTR-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	3969.00/3,000		
SC2596SECT-ND	Low Voltage Integrated DDR Termination Regulator	8-SOIC	1.38	.93	.80
SC2596SETR-ND	Low Voltage Integrated DDR Termination Regulator	8-SOIC	1788.75/2,500		
SC4211SCT-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	1.61	1.09	.93
SC4211STR-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	2092.50/2,500		
SC4215ASCT-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	1.46	.98	.84
SC4215ASTR-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	1890.00/2,500		
SC4216SCT-ND	Low In/LDO 3A Regulator with Enable	8-SOIC	2.05	1.39	1.19
SC4216STR-ND	Low In/LDO 3A Regulator with Enable	8-SOIC	2666.25/2,500		
	Special Function				
SC310ASKCT-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1.14	.77	.66
SC310ASKTR-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1782.00/3,000		
SC310BSKCT-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1.14	.77	.66
SC310BSKTR-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1782.00/3,000		
SC310CSKCT-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1.14	.77	.66

***** *RoHS Compliant*

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(Continued)

SEMTECH Digi-Reel® *(Cont.)*

POWER MANAGEMENT

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC310CSKTR-ND	High Side Current Sense Amp, Low Impedance Volt. Output	SOT-23-6	1782.00/3,000		
SC338AIMSCT-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	2.05	1.39	1.19
SC338AIMSTR-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	2666.25/2,500		
References					
SC431CSK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.47	.32	.27
SC431CSK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	729.00/3,000		
SC431CSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.39	.27	.23
SC431CSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	607.50/3,000		
SC431CSK-2CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.39	.27	.23
SC431CSK-2TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	607.50/3,000		
SC431LCSK-0.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.57	.39	.33
SC431LCSK-0.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	891.00/3,000		
SC431LCSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.49	.34	.29
SC431LCSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	769.50/3,000		
SC431LCSK-25CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.73	.49	.42
SC431LCSK-25TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1134.00/3,000		
SC431LISK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.52	.35	.30
SC431LISK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	810.00/3,000		
LED Drivers					
SC440MLCT-ND	High Eff. Integrated Driver for 6-Strings of 30mA LEDs	24-MLPQ	4.60	3.06	2.58
SC600BIMLCT-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	2.60	1.75	1.50
SC600BIMLTR-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	4050.00/3,000		
SC618ULCT-ND	Charge Pump Flash LED Driver with Safety Timer	10-MLP	2.65	1.76	1.49
SC620ULCT-ND	General Purpose Octal LED Driver	16-MLPQ	1.77	1.19	1.02
SC620ULTR-ND	General Purpose Octal LED Driver	16-MLPQ	2754.00/3,000		
SC4509SKCT-ND	Highly Integrated Step-Up Converter for WLEDs	SOT-23-6	.88	.60	.51
SC4509SKTR-ND	Highly Integrated Step-Up Converter for WLEDs	SOT-23-6	1377.00/3,000		
SC4538ULCT-ND	High Efficiency Boost Converter up to 10 WLEDs	8-MLPD	1.33	.88	.75
Battery Chargers					
SC805IMLCT-ND	Minature IC High Current Lithium-Ion	10-MLP	2.73	1.84	1.58
SC805IMLTR-ND	Minature IC High Current Lithium-Ion	10-MLP	4252.50/3,000		
SC806IMLCT-ND	Minature High Current Lithium-Ion	10-MLP	2.47	1.67	1.43
SC806IMLTR-ND	Minature High Current Lithium-Ion	10-MLP	3847.50/3,000		

SEMTECH Digi-Reel®

NEW! INTERFACE

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SX1501I087CT-ND	4-Channel Low Voltage GPIO Expander	20-QFN	.91	.62	.53
SX1501I087TR-ND	4-Channel Low Voltage GPIO Expander	20-QFN	1417.50/3,000		
SX1502I087CT-ND	8-Channel Low Voltage GPIO Expander	20-QFN	1.04	.70	.60
SX1502I087TR-ND	8-Channel Low Voltage GPIO Expander	20-QFN	1620.00/3,000		
SX1503I091CT-ND	16-Channel Low Voltage GPIO Expander	28-QFN	1.43	.97	.83
SX1503I091TR-ND	16-Channel Low Voltage GPIO Expander	28-QFN	2227.50/3,000		
SX1504I087CT-ND	4-Channel Low Voltage GPIO Expander	20-QFN	.86	.58	.50
SX1504I087TR-ND	4-Channel Low Voltage GPIO Expander	20-QFN	1336.50/3,000		

ALPHA & OMEGA SEMICONDUCTOR Digi-Reel®

POWER ICs

RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AOZ1012DI	785-1148-1-ND	3A, 4.5V-16V Buck Regulator	8-DFN	2.15	1.65	1.45
AOZ1012DI	785-1148-2-ND	3A, 4.5V-16V Buck Regulator	8-DFN	2020.95/3,000		
AOZ1014AI	785-1149-1-ND	5A, 4.5V-16V Buck Regulator	8-SOIC	2.00	1.54	1.36
AOZ1012DI	785-1149-2-ND	5A, 4.5V-16V Buck Regulator	8-SOIC	1887.30/3,000		
AOZ1014DI	785-1150-1-ND	5A, 4.5V-16V Buck Regulator	8-DFN	2.12	1.63	1.43
AOZ1014DI	785-1150-2-ND	5A, 4.5V-16V Buck Regulator	8-DFN	1992.60/3,000		
AOZ1015AI	785-1151-1-ND	1.5A, 4.5V-16V Non-Sync. Buck Regulator	8-SOIC	1.62	1.25	1.10
AOZ1015AI	785-1151-2-ND	1.5A, 4.5V-16V Non-Sync. Buck Regulator	8-SOIC	1419.00/3,000		
AOZ1016AI	785-1152-1-ND	2A, 4.5V-16V Buck Regulator	8-SOIC	2.00	1.54	1.35
AOZ1016AI	785-1152-2-ND	2A, 4.5V-16V Buck Regulator	8-SOIC	1461.00/3,000		
AOZ1019AI	785-1153-1-ND	2A, 4.5V-16V Buck Regulator	8-SOIC	1.39	1.07	.94
AOZ1019AI	785-1153-2-ND	2A, 4.5V-16V Buck Regulator	8-SOIC	1419.00/3,000		
AOZ1020AI	785-1154-1-ND	2A, 4.5V-16V Synchronous Buck Regulator	8-SOIC	1.50	1.15	1.01
AOZ1020AI	785-1154-2-ND	2A, 4.5V-16V Synchronous Buck Regulator	8-SOIC	1461.00/3,000		
AOZ1021AI	785-1155-1-ND	3A, 4.5V-16V Synchronous Buck Regulator	8-SOIC	1.40	1.11	1.00
AOZ1021AI	785-1155-2-ND	3A, 4.5V-16V Synchronous Buck Regulator	8-SOIC	1545.00/3,000		
AOZ1022DI	785-1156-1-ND	3A, 4.5V-16V Synchronous Buck Regulator	8-DFN	1.55	1.23	1.11
AOZ1022DI	785-1156-2-ND	3A, 4.5V-16V Synchronous Buck Regulator	8-DFN	1713.00/3,000		
AOZ1024DI	785-1157-1-ND	4A, 4.5V-16V Synchronous Buck Regulator	8-DFN	1.63	1.29	1.16
AOZ1024DI	785-1157-2-ND	4A, 4.5V-16V Synchronous Buck Regulator	8-DFN	1797.00/3,000		
AOZ1210AI	785-1158-1-ND	2A, 4.5V-27V Buck Regulator	8-SOIC	1.76	1.40	1.26
AOZ1210AI	785-1158-2-ND	2A, 4.5V-27V Buck Regulator	8-SOIC	1950.00/3,000		
AOZ1212AI	785-1159-1-ND	3A, 4.5V-27V Buck Regulator	8-SOIC	1.77	1.41	1.27
AOZ1212AI	785-1159-2-ND	3A, 4.5V-27V Buck Regulator	8-SOIC	1962.00/3,000		
AOZ1212DI	785-1160-1-ND	3A, 4.5V-27V Buck Regulator	8-DFN	1.86	1.47	1.33
AOZ1212DI	785-1160-2-ND	3A, 4.5V-27V Buck Regulator	8-DFN	2058.00/3,000		
AOZ1300AI	785-1161-1-ND	4A, 2.7V-5.5V Prog. Distribution Switch	8-SOIC	1.74	1.34	1.18
AOZ1300AI	785-1161-2-ND	4A, 2.7V-5.5V Prog. Distribution Switch	8-SOIC	1636.20/3,000		

Panasonic Digi-Reel®

ANALOG ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN1101SSMTXLCT-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1.23	1.03	.82
AN1201SMTXLCT-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	1.36	1.09	.82
AN1281SSMTXLCT-ND	Ripple Filter	SSMINI-5	1.36	1.09	.82
AN1281SSMTXLTR-ND	Ripple Filter	SSMINI-5	2094.00/3,000		
AN30251A-VBCT-ND	White LED Driver*	16-QFN	1.88	1.51	1.13
AN30251A-VBTR-ND	White LED Driver*	16-QFN	1954.45/2,000		
AN44065A-VFCT-ND	2-Channel H-Bridge DC Motor Driver*	28-SOP	2.90	2.33	1.81
AN44065A-VFTR-ND	2-Channel H-Bridge DC Motor Driver*	28-SOP	1644.55/1,000		
AN44075A-VFCT-ND	1-Channel H-Bridge DC Motor Driver*	34-SOP	2.15	1.72	1.29
AN44075A-VFTR-ND	1-Channel H-Bridge DC Motor Driver*	34-SOP	3301.98/3,000		

Panasonic Digi-Reel® *(Cont.)*

ANALOG ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN6123MSTXLCT-ND	Speech Network with ALC*	MINI-5	1.07	.89	.71
AN8001FHKV-ND	Gradation Voltage Generation for Liquid Crystal Display*	TQFP048	3.68	2.95	2.30
AN8495SBE1VCT-ND	Stepping Motor Drive*	HSOP042	4.61	3.69	2.87
AN8955SSMTXLCT-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8956SSMTXLCT-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8956SSMTXLTR-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8957SSMTXLCT-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8957SSMTXLTR-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8958SSMTXLCT-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55

Panasonic Digi-Reel®

AUDIO/VIDEO ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN2906FJMEBVCT-ND	Audio In/Out Amplifier*	44-QFN	3.69	2.95	2.30
AN2906FJMEBVTR-ND	Audio In/Out Amplifier*	44-QFN	4178.00/2,000		
AN5272-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5273-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5275-ND	15W, Dual Audio Amp with Fin	SIL-12	2.88	2.31	1.80
AN5276-ND	5W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5277-ND	10W, 2-Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN5278-ND	4.8W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5279-ND	5W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5870K-ND	Analog Switch with Amp and 75-Ohm Driver for Display	DIL-30	5.04	4.04	3.14
AN7135-CM-ND	7.5W, 2-Channel Audio Amp with Fin*	SIL-12	2.49	1.99	1.55
AN7161N-ND	23W, Hi-Fi Audio Amp with Fin*	SIL-12	3.05	2.44	1.90
AN7510-ND	1W, 2-Channel Audio Amp with Fin	16-Dip	1.60	1.28	.96
AN7511-ND	1W, 1-Channel Audio Amp with Fin*	8-Dip	1.15	.96	.77
AN7513-ND	1W, 1-Channel Audio Amp*	8-Dip	1.28	1.03	.77
AN7522-ND	3W, 2-Channel Audio Amp with Fin*	SIL-12	2.08	1.67	1.25
AN7523N-ND	4W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN7580-ND	25W, 6-Ohm, 2-Channel BTL Audio Amp*	SIL-12	3.92	3.14	2.44
AN15851ACT-ND	4-Input AV Switch with RGB-YUV	36-USO	3.49	2.80	2.18
AN15852A-VT-ND	AV Switch with I^{2}C Interface*	QFH-80	7.48	5.99	5.06
AN15853BCT-ND	4-Input AV Switch for Color TV	36-USO	2.53	2.03	1.58
AN15861A-VT-ND	12-Input/4-Output Channel Audio Switch*	44-QFP	4.28	3.43	2.67
AN15865AAVT-ND	Video Switch IC for Color TV*	80-QFP	8.45	7.61	6.75
AN15866A-VT-ND	Video Switch with I^{2}C Bus*	80-QFH	8.62	6.90	5.83
AN17000ABFCT-ND	Audio Amplifier for Notebook*	56-SOIC	3.46	2.77	2.16
AN17000ABFTR-ND	Audio Amplifier for Notebook*	56-SOIC	5805.00/3,000		
AN17020AVBCT-ND	Audio Amplifier for Headphone	16-QFN	1.98	1.59	1.20
AN17020AVBTR-ND	Audio Amplifier for Headphone	16-QFN	2064.00/2,000		
AN17808B-ND	5W, 2-Channel BTL Audio Amp*	SIL-12	2.16	1.74	1.30
AN17820B-ND	7.5W, 2-Channel Audio Amp*	SIL-12	3.18	2.55	1.91
AN17822A-ND	5W, 2-Channel BTL Audio Amp*	SIL-12	2.11	1.69	1.27
AN17823A-ND	4W, 1-Channel Audio Amp*	SIL-9	1.23	1.03	.83
AN17827A-ND	2.5W, 1-Channel BTL Audio Amp*	16-DIP	1.32	1.10	.88
AN17831A-ND	44W, 6-Ohm, 2-Channel BTL Audio Amp*	SIL-12	4.02	3.22	2.50
AN17832A-ND	15W, 2-Channel Audio Amp*	SIL-12	3.10	2.48	1.93
AN17850A-ND	70W, 6-Ohm, 1-Channel BTL Audio Amp*	SIL-12	4.10	3.29	2.56
AN17880AE1CT-ND	Audio Amplifier for Headphone	16-SOIC	1.71	1.37	1.03
AN17880AE1TR-ND	Audio Amplifier for Headphone	16-SOIC	1774.00/2,000		

Panasonic Digi-Reel®

BI-CMOS ICs

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN26210A-PBCT-ND	W-CDMA Dual Band LNA-IC	12-FPLGA	2.29	1.84	1.38
AN26210A-PBTR-ND	W-CDMA Dual Band LNA-IC	12-FPLGA	3516.00/3,000		
AN26214A-PRCT-ND	W-CDMA Triple Band LNA-IC	11-WLCSP	2.55	2.05	1.59

Panasonic Digi-Reel®

DC/DC CONVERTER ICs

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN8011SE1VCT-ND	2-Channel DC/DC Converter	16-SOIC	1.70	1.36	1.02
AN8011SE1VTR-ND	2-Channel DC/DC Converter	16-SOIC	1764.00/2,000		
AN8013SH-E1VCT-ND	1-Channel DC/DC Converter	SSOP-10	1.82	1.46	1.10
AN8013SH-E1VTR-ND	1-Channel DC/DC Converter	SSOP-10	1896.75/2,000		
AN8013SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8013SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8014SE1CT-ND	1-Channel DC/DC Converter	16-SOIC	1.56	1.25	.94
AN8014SE1TR-ND	1-Channel DC/DC Converter	16-SOIC	1620.00/2,000		
AN8015SH-E1VCT-ND	1-Channel DC/DC Converter	SSOP-10	1.82	1.46	1.10
AN8015SH-E1VTR-ND	1-Channel DC/DC Converter	SSOP-10	1896.75/2,000		
AN8015SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8015SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8016NSHAVFCT-ND	1-Channel DC/DC Converter	SSOP-10	1.51	1.21	.91
AN8016NSHAVFTR-ND	1-Channel DC/DC Converter	SSOP-10	1572.22/2,000		
AN8016SH-E1VCT-ND	1-Channel DC/DC Converter	SSOP-10	1.54	1.24	.93
AN8016SH-E1VTR-ND	1-Channel DC/DC Converter	SSOP-10	1746.94/2,000		
AN8016SHAE1VCT-ND	1-Channel DC/DC Converter	SSOP-10	1.51	1.21	.91
AN8016SHAE1VTR-ND	1-Channel DC/DC Converter	SSOP-10	1572.22/2,000		
AN8017SA-E1VCT-ND	2-Channel DC/DC Converter	SSOP-16	1.63	1.31	.98
AN8017SA-E1VTR-ND	2-Channel DC/DC Converter	SSOP-16	1694.84/2,000		
AN8017SAE1CT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8017SAE1TR-ND	2-Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8018SAE1VCT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8018SAE1VTR-ND	2-Channel DC/DC Converter	SSONF-16D	2012.00/2,000		
AN8049FHNEBCT-ND	3-Channel DC/DC Converter	QFN-24	3.01	2.41	1.88
AN8049FHNEBTR-ND	3-Channel DC/DC Converter	QFN-24	3408.00/2,000		
AN8049FHNEBVCT-ND	3-Channel DC/DC Converter	QFN-24	2.38	1.91	1.49
AN8049SHE1CT-ND	3-Channel DC/DC Converter	SSOP-24D	2.30	1.85	1.44
AN8049SHE1TR-ND	3-Channel DC/DC Converter	SSOP-24D	1306.00/1,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Panasonic Digi-Reel® VOLTAGE REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN77L03M-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L03ME1TR-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L035M-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L035ME1TR-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L04M-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05M-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05ME1TR-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L06-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L06ME1TR-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L07-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L07M-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L07ME1TR-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L08-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L08M-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L09-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L09M-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L10M-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN78L09M-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L15ME1TR-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78M08NSPE1TR-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN79L10ME1TR-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L18M-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L18ME1TR-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L20-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L20M-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L20ME1TR-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L24M-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L24ME1TR-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN80L20RMS-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMS-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMSTXTR-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L25RMS-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L25RMSTXTR-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L28RMS-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L28RMSTXTR-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L29RMS-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L29RMSTXTR-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L30RMS-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L30RMSTXTR-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L31RMS-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L31RMSTXTR-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L33RMSTXTR-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L34RMS-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L34RMSTXTR-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L36RMS-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L36RMSTXTR-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L48RMS-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L48RMSTXTR-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L49RMS-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L49RMSTXTR-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L50RMS-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L50RMSTXTR-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L51RMS-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMS-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMSTXTR-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80M27RSP-ND	2.7V, 500mA, with On-Off, LP Loss, Positive Voltage Reg.	SP5SU	2.33	1.87	1.40
AN80M27RSPTXTR-ND	2.7V, 500mA, with On-Off, LP Loss, Positive Voltage Reg.	SP5SU	3579.00/3,000		
AN80T05-ND	Voltage Supply for Car Audio	12-SIL	3.16	2.53	1.97
AN80T05LF-ND	Voltage Supply for Car Audio	12-SIL	3.22	2.58	2.01
AN80T32-ND	Multi-Voltage Regulator	TO-2207	2.02	1.62	1.22
AN80T53-ND	Multi-Voltage Regulator	TO-2207	2.12	1.70	1.28
AN1433SSMTXLCT-ND	7V-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1.07	.90	.72
AN1433SSMTXLTR-ND	7V-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1395.00/3,000		
AN7705SP-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7705SPE1TR-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7706SPE1TR-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7707SPE1TR-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7708SP-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7708SPE1TR-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7709SP-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7709SPE1TR-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7710SPE1TR-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7712SP-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7715SP-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN8002M-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8003M-E1TR-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8004M-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8006M-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8006M-E1TR-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8007M-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8007M-E1TR-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8008M-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8008M-E1TR-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8009M-E1TR-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8010-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8025M-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8025M-E1TR-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8045M-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8045M-E1TR-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8085M-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8085M-E1TR-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN34001A-LC-ND	Nine-Output Linear Voltage Regulator	16-ZIP	3.40	2.72	2.12
AN34040A-ND	Multi-Voltage Regulator	TO-2207	2.34	1.88	1.46
AN34060A-ND	Multi-Voltage Regulator	TO-2207	2.42	1.94	1.51
AN77035SPE1TR-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		

JRC / NJR Corporation Digi-Reel® AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1101F-TE1CT-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	2.31	1.93	1.54
NJG1101F-TE1TR-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	4042.50/3,000		
NJG1103F1-TE1CT-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	.93	.78	.62
NJG1103F1-TE1TR-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	1627.50/3,000		

JRC / NJR Corporation Digi-Reel® (Cont.) AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1105F-TE1CT-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	2.73	2.28	1.82
NJG1105F-TE1TR-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	4777.50/3,000		
NJG1302V-TE1CT-ND	Medium Power Amp, GaAs MMIC	14-SSOP	6.30	5.25	4.20
NJG1302V-TE1TR-ND	Medium Power Amp, GaAs MMIC	14-SSOP	7350.00/2,000		
NJG1307R-TE1CT-ND	Driver Amp, GaAs MMIC	8-VSP	2.94	2.45	1.96
NJG1307R-TE1TR-ND	Driver Amp, GaAs MMIC	8-VSP	3430.00/2,000		
NJM064D-ND	J-Fet Input Op Amp	14-Dip	.93	.78	.62
NJM074M-ND	Quad J-Fet Input Op Amp	14-DMP	1.05	.88	.70
NJM082D-ND	Dual J-Fet Input Op Amp	8-Dip	.48	.40	.32
NJM084D-ND	Quad J-Fet Input Op Amp	14-Dip	1.17	.98	.78
NJM319M#-ND	Precision, High Speed, Dual Voltage Comparator*	14-DMP	1.43	1.19	.95
NJM2060D-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-Dip	.60	.50	.40
NJM2073M#-ND	Dual Low Voltage Power Amp*	8-DMP	1.17	.98	.78
NJM2076D-ND	Dual Low Voltage Power Amp	8-Dip	1.38	1.15	.92
NJM2076M-ND	Dual Low Voltage Power Amp	8-DMP	1.38	1.15	.92
NJM2082D#-ND	Dual J-Fet Input Op Amp*	8-Dip	.95	.80	.64
NJM2113M#-ND	Low Voltage Audio Power Amp*	8-DMP	.82	.69	.55
NJM2119M#-ND	Dual Single Supply Op Amp*	8-DMP	3.54	2.96	2.37
NJM2120M-ND	Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.66	.55	.44
NJM2121M-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.54	.45	.36
NJM2122D-ND	Ultra Low Noise Dual Op Amp	8-Dip	1.17	.98	.78
NJM2125F-TE1#CT-ND	Single Supply Op Amp*	5-MTP	.63	.53	.42
NJM2135M-TE2CT-ND	Low Voltage Audio Power Amp	8-DMP	.63	.53	.42
NJM2136M-ND	Ultra Wideband, High Slew Rate, Single Op Amp	8-DMP	1.50	1.25	1.00
NJM2137M-ND	Ultra Wideband, High Slew Rate, Dual Op Amp	8-DMP	1.26	1.05	.84
NJM2138M-ND	Ultra Wideband, High Slew Rate, Quad Op Amp	14-DMP	2.52	2.10	1.68
NJM2140R-TE1#CT-ND	Low Saturation Dual Op Amp*	8-VSP	.86	.72	.58
NJM2140R-TE1#TR-ND	Low Saturation Dual Op Amp*	8-VSP	1008.00/2,000		
NJM2143R-TE1#CT-ND	Single Supply Dual Op Amp*	8-VSP	.56	.47	.38
NJM2143R-TE1#TR-ND	Single Supply Dual Op Amp*	8-VSP	654.50/2,000		
NJM2171AR-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	.90	.75	.60
NJM2171AR-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	1050.00/2,000		
NJM2172V-TE1#CT-ND	Op Amp with Electric Variable Resistor*	14-SSOP	2.16	1.80	1.44
NJM2172V-TE1#TR-ND	Op Amp with Electric Variable Resistor*	14-SSOP	2520.00/2,000		
NJM2174V-TE2CT-ND	Audio Line Amp with Mute Function	14-SSOP	1.47	1.23	.98
NJM2174V-TE2TR-ND	Audio Line Amp with Mute Function	14-SSOP	1715.00/2,000		
NJM2267M#-ND	Dual Video 6dB Amp with 75-Ohm Driver*	8-DMP	1.04	.87	.70
NJM2268M-ND	Dual Video 6dB Amplifier	8-DMP	.57	.48	.38
NJM2403D-ND	Single Supply Dual Comparator	8-Dip	.54	.45	.36
NJM2407R-TE1#CT-ND	Single Supply Dual Comparator*	8-VSP	.57	.48	.38
NJM2407R-TE1#TR-ND	Single Supply Dual Comparator*	8-VSP	665.00/2,000		
NJM2538V-TE1CT-ND	Video Amp with 75-Ohm Driver	20-SSOP	2.94	2.45	1.96
NJM2538V-TE1TR-ND	Video Amp with 75-Ohm Driver	20-SSOP	3430.00/2,000		
NJM2574RB1-TE1#CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	1.23	1.03	.82
NJM2574RB1-TE1#TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1435.00/2,000		
NJM2575F1-TE1#CT-ND	Low Voltage Video Amp with LPF*	6-MTP	1.04	.87	.70
NJM2576RB1-TE1#CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	1.43	1.19	.95
NJM2576RB1-TE1#TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1662.50/2,000		
NJM2580D-ND	Single Supply Wideband 3-Channel Video Amp	14-Dip	2.52	2.10	1.68
NJM2580M-ND	Single Supply Wideband 3-Channel Video Amp	14-DMP	2.10	1.75	1.40
NJM2710V-TE1CT-ND	Ultra High Speed Hex Op Amp	20-SSOP	2.43	2.03	1.62
NJM2710V-TE1TR-ND	Ultra High Speed Hex Op Amp	20-SSOP	2835.00/2,000		
NJM2711F-TE1#CT-ND	Ultra High Speed Single Op Amp*	5-MTP	2.98	2.49	1.99
NJM2716F-TE1CT-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	1.26	1.05	.84
NJM2716F-TE1TR-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	2205.00/3,000		
NJM2729E-TE1#CT-ND	Precision Op Amp*	8-EMP	2.79	2.33	1.86
NJM2732RB1-TE1#CT-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2.59	2.16	1.73
NJM2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2.31	1.93	1.54
NJM2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2695.00/2,000		
NJM2737RB1-TE1#CT-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	2.37	1.98	1.58
NJM2737RB1-TE1#TR-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	2469.99/2,000		
NJM2770RB1-TE1CT-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1.20	1.00	.80
NJM2770RB1-TE1TR-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1400.00/2,000		
NJM2772V-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1.35	1.13	.90
NJM2772V-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1575.00/2,000		
NJM4558D#-ND	Dual Op Amp*	8-Dip	.52	.44	.35
NJM4562M-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-DMP	.51	.43	.34
NJM4565D#-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp*	8-Dip	.56	.47	.38
NJM4741M#-ND	General Purpose Quad Op Amp*	14-DMP	1.73	1.44	1.16
NJM5532M#-ND	High Performance Low Noise Dual Op Amp*	8-DMP	1.17	.98	.78
NJM5534M#-ND	High Performance Low Noise Op Amp*	8-DMP	.82	.69	.55
NJM12901M-ND	Single Supply Quad Comparator	14-DMP	.75	.63	.50
NJM12902M-ND	Single Supply Quad Op Amp	14-DMP	.81	.68	.54
NJM12904M-TE1#CT-ND	Single Supply Dual Amp*	8-DMP	.39	.33	.26
NJM13404D-ND	Single Supply Dual Op Amp	8-Dip	.66	.55	.44
NJM13404M-ND	Single Supply Dual Op Amp	8-DMP	.66	.55	.44
NJM14558D#-ND	Dual Op Amp*	8-Dip	.61	.51	.41
NJM14558M-ND	Dual Op Amp	8-DMP	.51	.43	.34
NJU7001M-ND	Low Voltage CMOS Op Amp	8-DMP	.69	.58	.46
NJU7004D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.01	1.68	1.34
NJU7004M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.01	1.68	1.34
NJU7006F-TE1CT-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	1.86	1.55	1.24
NJU7006F-TE1TR-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	3255.00/3,000		
NJU7007F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7007F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7008F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7008F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7011F-TE1CT-ND	Low Power Tiny Single CMOS Op Amp	5-MTP	.54	.45	.36
NJU7014D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7015D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7016D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.20	1.00	.80
NJU7021D-ND	Single Low Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7022M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	.87	.73	.58
NJU7024D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.13	1.78	1.42
NJU7024M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.25	1.88	1.50
NJU7031D-ND	Low Voltage CMOS Op Amp	8-Dip	.75	.63	.50

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

JRC / NJR Corporation DigiReel® (Cont.)

AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJU7031M-ND	Low Voltage CMOS Op Amp	8-DMP	.75	.63	.50
NJU7034D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	1.71	1.43	1.14
NJU7051D-ND	Low Input Offset Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7051M-ND	Low Input Offset Voltage CMOS Op Amp	8-DMP	1.05	.88	.70
NJU7061D-ND	Single Low Input Offset Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
NJU7072M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.68	1.40	1.12
NJU7074D-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-Dip	2.73	2.28	1.82
NJU7074M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	2.10	1.75	1.40
NJU7081R-TE1CT-ND	Single Low Voltage CMOS Power Amp	8-VSP	.63	.53	.42
NJU7081R-TE1TR-ND	Single Low Voltage CMOS Power Amp	8-VSP	735.00/2,000		
NJU7082BV-TE1CT-ND	Dual Low Voltage CMOS Power Amp	8-SSOP	.72	.60	.48
NJU7091AF-TE1CT-ND	LP/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.51	.43	.34
NJU7092AF-TE1CT-ND	LP/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.39	.33	.26
NJU7092AF-TE1TR-ND	LP/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	682.50/3,000		
NJU7093AF-TE1#CT-ND	LP/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	1.21	1.01	.81
NJU7094D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.32	1.10	.88
NJU7094R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7094RB1-TE1#CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	3.28	2.74	2.19
NJU7094V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1.47	1.23	.98
NJU7094V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1715.00/2,000		
NJU7095D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.26	1.05	.84
NJU7095M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.26	1.05	.84
NJU7095R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7095R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	3185.00/2,000		
NJU7095RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7095RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7095V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7095V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7096M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	.96	.80	.64
NJU7096R-TE1#CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	3.28	2.74	2.19
NJU7096R-TE1#TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	3829.00/2,000		
NJU7096RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7096RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7096V-TE2CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7096V-TE2TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7102AD-ND	CMOS Comparator with CMOS Output	8-Dip	3.15	2.63	2.10
NJU7102AM-ND	CMOS Comparator with CMOS Output	8-DMP	3.15	2.63	2.10
NJU8721V-TE1CT-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4.20	3.50	2.80
NJU8721V-TE1TR-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4900.00/2,000		
NJU8725V-TE1CT-ND	Class-D Amp for Digital Audio	24-SSOP	6.30	5.25	4.20
NJU8725V-TE1TR-ND	Class-D Amp for Digital Audio	24-SSOP	7350.00/2,000		
NJU8752V-TE1#CT-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	4.32	3.60	2.88
NJU8752V-TE1#TR-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	5040.00/2,000		
NJU8755V-TE1#CT-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	4.02	3.35	2.68
NJU8755V-TE1#TR-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	4686.50/2,000		
MUSES01-ND	J-FET Input, Dual Audio Op Amp* ***NEW!***	8-DIP	75.00	62.50	50.00
MUSES02-ND	Bipolar Input, Dual Audio Op Amp* ***NEW!***	8-DIP	75.00	62.50	50.00

JRC / NJR Corporation DigiReel®

DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM2577M-TE2#CT-ND	Quad Video Driver*	20-DMP	3.61	3.01	2.41
NJM2577M-TE2#TR-ND	Quad Video Driver*	20-DMP	4207.00/2,000		
NJM3517D2#-ND	Stepper Motor Controller/Driver*	16-Dip	6.70	5.58	4.47
NJM3517E2#-ND	Stepper Motor Controller/Driver*	16-EMP	6.70	5.58	4.47
NJM3717D2#-ND	Stepper Motor Driver*	16-Dip	5.40	4.50	3.60
NJM3770AD3#-ND	Stepper Motor Driver*	16-Dip (Batwing)	6.22	5.19	4.15
NJM3771D2#-ND	Dual Stepper Motor Driver*	22-Dip	7.13	5.94	4.76
NJM3771FM2#-ND	Dual Stepper Motor Driver*	28-PLCC	7.13	5.94	4.76
NJM3772D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM3773D2#-ND	Dual Stepper Motor Driver*	22-Dip	7.13	5.94	4.76
NJM3775D2#-ND	Dual Stepper Motor Driver*	22-Dip	10.11	8.43	6.74
NJM3777E3#-ND	Dual Stepper Motor Driver*	24-EMP	6.48	5.40	4.32
NJM37717E3-ND	Stepper Motor Driver	24-EMP	5.04	4.20	3.36
NJU6048F-TE1CT-ND	High Efficiency White LED Driver	SOT-23-5	1.68	1.40	1.12
NJU6048F-TE1TR-ND	High Efficiency White LED Driver	SOT-23-5	2940.00/3,000		
NJU6050F-TE2#CT-ND	High Efficiency White LED Driver*	SOT-23-5	1.50	1.25	1.00
NJU6050F-TE2#TR-ND	High Efficiency White LED Driver*	SOT-23-5	2625.00/3,000		
NJU6060V-TE1#CT-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1.82	1.52	1.21
NJU6060V-TE1#TR-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	2117.50/2,000		
NJU7325R-TE1CT-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1.05	.88	.70
NJU7325R-TE1TR-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1225.00/2,000		
NJU8711V-TE2#CT-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	2.46	2.06	1.65
NJU8711V-TE2#TR-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	2873.50/2,000		
NJU8713V-TE1#CT-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2.73	2.28	1.82
NJU8713V-TE1#TR-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2765.00/2,000		
NJW4301D-ND	2-Channel Bridge Driver	16-Dip	3.48	2.90	2.32
NJW4301M-ND	2-Channel Bridge Driver	30-SDMP	3.48	2.90	2.32

JRC / NJR Corporation

MULTIPLEXERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJU4051BM-ND	8x1 Mux/Demux	16-DMP	.93	.78	.62
NJU4053BD-ND	2x1Triple Mux/Demux	16-Dip	.96	.80	.64

JRC / NJR Corporation DigiReel®

POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM78LR05BD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05BM-ND	Series Regulator with Reset Function	8-DMP	.45	.38	.30
NJM78L05UA#-ND	5V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78L06UA#-ND	6V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78L08UA#-ND	8V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78L09UA#-ND	9V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78L12UA#-ND	12V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78L15UA#-ND	15V, 100mA, Positive Voltage Regulator*	SOT-89	.47	.40	.32
NJM78LR05BUTE1#CT-ND	Series Regulator with Reset Function*	SOT-89-5	1.15	.96	.77
NJM78LR05BUTE1#TR-ND	Series Regulator with Reset Function*	SOT-89-5	668.50/1,000		
NJM78LR05DD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48

JRC / NJR Corporation DigiReel® (Cont.)

POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM78LR05DU-TE1CT-ND	Series Regulator with Reset Function	SOT-89-5	.60	.50	.40
NJM78M05FA#-ND	5V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.67	.56	.45
NJM78M09FA#-ND	9V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.67	.56	.45
NJM78M12FA#-ND	12V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.67	.56	.45
NJM79L05UA#-ND	5V, 100mA, Negative Voltage Regulator*	SOT-89	.58	.49	.39
NJM79L08UA#-ND	8V, 100mA, Negative Voltage Regulator*	SOT-89	.58	.49	.39
NJM79L12L2A#-ND	12V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM79L12UA#-ND	12V, 100mA, Negative Voltage Regulator*	SOT-89	.58	.49	.39
NJM79L24UA-ND	24V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79M05FA#-ND	5V, 500mA, Negative Voltage Reg. with Isolated Tab*	TO-220F	.78	.65	.52
NJM79M08FA-ND	8V, 500mA, Negative Voltage Reg. with Isolated Tab	TO-220F	.69	.58	.46
NJM79M18FA-ND	18V, 500mA, Negative Voltage Reg. with Isolated Tab	TO-220F	.69	.58	.46
NJM79M24FA-ND	24V, 500mA, Negative Voltage Reg. with Isolated Tab	TO-220F	.69	.58	.46
NJM317F#-ND	Adjustable 1.5A, Voltage Regulator with Isolated Tab*	TO-220F	1.21	1.01	.81
NJM431D-ND	Adjustable Precision Shunt Regulator	8-Dip	.48	.40	.32
NJM431E-ND	Adjustable Precision Shunt Regulator	8-SOIC	.42	.35	.28
NJM431M-ND	Adjustable Precision Shunt Regulator	8-DMP	.54	.45	.36
NJM723M-ND	Precision Voltage Regulator	14-DMP	.54	.45	.36
NJM723M#-ND	Precision Voltage Regulator*	14-DMP	1.77	1.48	1.18
NJM2355D#-ND	2-Output High Voltage Switching Regulator*	18-Dip	4.80	4.00	3.20
NJM2360D#-ND	DC/DC Converter Control IC*	8-Dip	1.38	1.16	.93
NJM2370R02-TE1CT-ND	2.0V, LDO Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R02-TE1TR-ND	2.0V, LDO Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R03-TE1CT-ND	3.0V, LDO Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R03-TE1TR-ND	3.0V, LDO Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R37-TE1CT-ND	3.7V, LDO Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R37-TE1TR-ND	3.7V, LDO Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2373AF-TE1CT-ND	Adjustable High Precision Shunt Regulator	5-MTP	.66	.55	.44
NJM2373AF-TE1TR-ND	Adjustable High Precision Shunt Regulator	5-MTP	1155.00/3,000		
NJM2373AU-TE1CT-ND	Adjustable High Precision Shunt Regulator	SOT-89	.84	.70	.56
NJM2373AU-TE1TR-ND	Adjustable High Precision Shunt Regulator	SOT-89	490.00/1,000		
NJM2384D-ND	DC/DC Converter Control	14-Dip	2.10	1.75	1.40
NJM2391DL103TE1#CT-ND	3V, Low Dropout Voltage Regulator	TO-252	1.04	.87	.70
NJM2391DL103TE1#TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1816.50/3,000		
NJM2396F05-ND	Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2396F63-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2397F-ND	Adjustable Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2800F3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1.05	.88	.70
NJM2800F3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1837.50/3,000		
NJM2845DL118TE1CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL118TE1TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL123TE1CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL123TE1TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL125TE1CT-ND	2.5V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2846DL303TE1#CT-ND	3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL303TE1#TR-ND	3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL318TE1#CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	.97	.81	.65
NJM2846DL318TE1#TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	1701.00/3,000		
NJM2846DL323TE1#CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	.97	.81	.65
NJM2846DL323TE1#TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	1701.00/3,000		
NJM2855DL1-05-TE1#CT-ND	5V, Low Dropout Voltage Regulator*	TO-252	.63	.53	.42
NJM2856DL3-05-TE1#CT-ND	5V, Low Dropout Voltage Regulator*	TO-252-5	.63	.53	.42
NJM2860F3-33TE1CT-ND	3.3V, Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-33TE1TR-ND	3.3V, Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2863F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJM2863F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJM2863F28-TE1CT-ND	2.8V, Ultra Low Noise Low Dropout Voltage Reg.	SOT-23	.45	.38	.30
NJM2863F28-TE1TR-ND	2.8V, Ultra Low Noise Low Dropout Voltage Reg.	SOT-23	787.50/3,000		
NJM2863F29-TE1CT-ND	2.9V, Ultra Low Noise Low Dropout Voltage Reg.	SOT-23	.45	.38	.30
NJM2863F29-TE1TR-ND	2.9V, Ultra Low Noise Low Dropout Voltage Reg.	SOT-23	787.50/3,000		
NJM2864F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJM2864F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJM2865F333TE1#CT-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	.48	.40	.32
NJM2865F333TE1#TR-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	840.00/3,000		
NJM2870F21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	SOT-23	.42	.35	.28
NJM2870F21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	SOT-23	735.00/3,000		
NJM2870F33-TE1#CT-ND	3.3V, Low Dropout Voltage Regulator*	SOT-23	.50	.42	.34
NJM2870F33-TE1#TR-ND	3.3V, Low Dropout Voltage Regulator*	SOT-23	655.50/3,000		
NJM2870F48-TE1CT-ND	4.8V, Low Dropout Voltage Regulator	SOT-23	.42	.35	.28
NJM2870F48-TE1TR-ND	4.8V, Low Dropout Voltage Regulator	SOT-23	735.00/3,000		
NJM2871AF25TE1#CT-ND	2.5V, Low Dropout Voltage Regulator*	SOT-23	.48	.40	.32
NJM2871AF25TE1#TR-ND	2.5V, Low Dropout Voltage Regulator*	SOT-23	981.75/3,000		
NJM2880U21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	.75	.63	.50
NJM2880U21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	437.50/1,000		
NJM2881F28-TE1#CT-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	.54	.45	.36
NJM2930F85-ND	8.5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	.48
NJM2930L85-ND	8.5V, Low Dropout Voltage Regulator	TO-92	.54	.45	.36
NJM7905FA#-ND	5V, 1.5A, Negative Voltage Reg. with Isolated Tab*	TO-220F	.95	.80	.64
NJM7912FA#-ND	12V, 1.5A, Negative Voltage Reg. with Isolated Tab*	TO-220F	.95	.80	.64
NJM7915FA#-ND	15V, 1.5A, Negative Voltage Reg. with Isolated Tab*	TO-220F	.95	.80	.64
NJM7918FA#-ND	18V, 1.5A, Negative Voltage Reg. with Isolated Tab*	TO-220F	.95	.80	.64
NJM7924FA-ND	24V, 1.5A, Negative Voltage Reg. with Isolated Tab	TO-220F	.93	.78	.62
NJU7201L12-ND	1.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	.40
NJU7201L232#-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	TO-92	.60	.50	.40
NJU7201L55-ND	5.5V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.63	.53	.42
NJU7222U30-ND	3V, High Prec./Output Current CMOS 3-Terminal Voltage Reg.	SOT-89	.66	.55	.44
NJU7222U50-ND	5V, High Prec./Output Current CMOS 3-Terminal Voltage Reg.	SOT-89	.66	.55	.44
NJU7223F18-ND	1.8V, 500mA Low Dropout Voltage Regulator	TO-220F	.93	.78	.62
NJU7231F28-TE1CT-ND	2.8V, High Precision CMOS 3-Terminal Voltage Reg.	5-MTP	.60	.50	.40
NJU7231F28-TE1TR-ND	2.8V, High Precision CMOS 3-Terminal Voltage Reg.	5-MTP	1050.00/3,000		
NJU7231F52-TE1CT-ND	5.2V, High Precision CMOS 3-Terminal Voltage Reg.	5-MTP	.60	.50	.40
NJU7231L12-ND	1.2V, High Precision CMOS 3-Terminal Voltage Reg.	TO-92	.75	.63	.50
NJU7231L28-ND	2.8V, High Precision CMOS 3-Terminal Voltage Reg.	TO-92	.75	.63	.50
NJU7231L52-ND	5.2V, High Precision CMOS 3-Terminal Voltage Reg.	TO-92	.75	.63	.50
NJU7231U18-TE1CT-ND	1.8V, High Precision CMOS 3-Terminal Voltage Reg.	SOT-89	.60	.50	.40
NJU7231U30-TE1CT-ND	3V, High Precision CMOS 3-Terminal Voltage Reg.	SOT-89	.60	.50	.40
NJU7231U30-TE1TR-ND	3V, High Precision CMOS 3-Terminal Voltage Reg.	SOT-89	350.00/1,000		
NJU7231U50-TE1CT-ND	5V, High Precision CMOS 3-Terminal Voltage Reg.	SOT-89	.60	.50	.40
NJU7241F18-TE1CT-ND	1.8V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	.69	.58	.46
NJU7241F18-TE1TR-ND	1.8V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	1207.50/3,000		
NJU7241F28-TE1CT-ND	2.8V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	.69	.58	.46

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

JRC / NJR Corporation Digi-Reel® (Cont.) POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJU7241F28-TE1TR-ND	2.8V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	1207.50/3,000		
NJU7241F40-TE1CT-ND	4V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	.69	.58	.46
NJU7241F40-TE1TR-ND	4V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	1207.50/3,000		
NJU7241F50-TE1CT-ND	5V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	.69	.58	.46
NJU7241F50-TE1TR-ND	5V, High Precision LDO 60mA CMOS Voltage Reg.	5-MTP	1207.50/3,000		
NJU7250F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.69	.58	.46
NJU7250F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	1207.50/3,000		
NJU7261U30-TE1CT-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U30-TE1TR-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U33-TE1CT-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U33-TE1TR-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U50-TE1CT-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7600M-ND	PWM Control Boost/Flyback Switching Regulator	8-DMP	1.26	1.05	.84
NJU7662D#-ND	DC/DC Voltage Converter*	8-Dip	2.46	2.06	1.65
NJU7665AF-TE1CT-ND	Small Package Voltage Inverter	5-MTP	1.26	1.05	.84
NJU7670V-TE1CT-ND	Voltage Tripler	14-SSOP	3.03	2.53	2.02
NJU7670V-TE1TR-ND	Voltage Tripler	14-SSOP	3535.00/2,000		
NJU7700F25-TE1CT-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7700F25-TE1TR-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	735.00/3,000		
NJU7700F27-TE1CT-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F28-TE1CT-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F28-TE1TR-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F44-TE1CT-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F44-TE1TR-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7771F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7771F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7771F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7772F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	SOT-23	.42	.35	.28
NJU7772F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	SOT-23	735.00/3,000		
NJU7772F15-TE1#CT-ND	1.5V, Low Dropout Voltage Regulator*	SOT-23	.56	.47	.38
NJU7772F15-TE1#TR-ND	1.5V, Low Dropout Voltage Regulator*	SOT-23	981.75/3,000		
NJU7773F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7773F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7773F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7773F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7774F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7774F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7774F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7774F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7774F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7774F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7775F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7775F05-TE1TR-ND	5V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7775F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7776F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7776F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		
NJU7776F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	SOT-23	.45	.38	.30
NJU7776F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	SOT-23	787.50/3,000		

JRC / NJR Corporation Digi-Reel® SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM1496M-ND	Double Balanced Modulator/Demodulator	14-DMP	1.65	1.38	1.10
NJM2211D#-ND	FSK Demodulator/Tone Decoder*	14-Dip	3.24	2.70	2.16
NJM2211M#-ND	FSK Demodulator/Tone Decoder*	14-SOIC	3.24	2.70	2.16
NJM2232AM-ND	FM IF with Log Amp	24-DMP	3.93	3.28	2.62
NJM2240D-ND	Video Sub-Carrier Signal Quadrupler	8-Dip	1.89	1.58	1.26
NJM2240M-ND	Video Sub-Carrier Signal Quadrupler	8-DMP	1.89	1.58	1.26
NJM2248D-ND	3-Input Video Superimposer	8-Dip	1.05	.88	.70
NJM2255M-ND	Chroma Signal Hue Tint Controller	8-DMP	1.68	1.40	1.12
NJM2257D-ND	Sync. Separator with AFC	16-Dip	2.85	2.38	1.90
NJM2259M-ND	RF Modulator for UHF Band	16-DMP	1.89	1.58	1.26
NJM2292V-TE1CT-ND	Narrow Band FM IF IC	20-SSOP	1.47	1.23	.98
NJM2292V-TE1TR-ND	Narrow Band FM IF IC	20-SSOP	1715.00/2,000		
NJM2294V-TE1CT-ND	FM IF IC for Pager	16-SSOP	3.99	3.33	2.66
NJM2294V-TE1TR-ND	FM IF IC for Pager	16-SSOP	3675.00/2,000		
NJM2509V-TE1#CT-ND	Video Superimposer with Y-C Mixer*	8-SSOP	2.07	1.73	1.39
NJM2509V-TE1#TR-ND	Video Superimposer with Y-C Mixer*	8-SSOP	2418.50/2,000		
NJM2519AM-ND	RF Modulator for VHF Band	8-DMP	1.26	1.05	.84
NJM2537V-TE1#CT-ND	Low Power FM IF IC for Pager*	20-SSOP	2.81	2.34	1.88
NJM2537V-TE1#TR-ND	Low Power FM IF IC for Pager*	20-SSOP	3276.00/2,000		
NJM2594V-TE1CT-ND	Double Balanced Modulation/Demodulation	8-SSOP	2.94	2.45	1.96
NJM2594V-TE1TR-ND	Double Balanced Modulation/Demodulation	8-SSOP	3430.00/2,000		
NJM2611M-ND	Servo Motor Controller	16-DMP	2.10	1.75	1.40
NJM2624AD-ND	Brushless DC Motor Pre-Driver	16-Dip	1.77	1.48	1.18
NJM2624AM-ND	Brushless DC Motor Pre-Driver	16-DMP	1.77	1.48	1.18
NJM3524D-ND	PWM Flyback Doubler	16-Dip	1.17	.98	.78
NJM3524M-ND	PWM Flyback Doubler	16-DMP	1.17	.98	.78
NJM7805FA#-ND	5V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7806FA#-ND	6V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7808FA#-ND	8V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7809FA#-ND	9V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7812FA#-ND	12V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7815FA#-ND	15V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7820FA#-ND	20V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJM7824FA#-ND	24V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.76	.63	.51
NJU3711D-ND	8-Bit Serial to Parallel Converter	14-Dip	1.17	.98	.78
NJU3712D-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-Dip	1.80	1.50	1.20
NJU3712M#-ND	8-Bit, 25mA, Serial to Parallel Output Expander*	16-SOIC	2.16	1.80	1.44
NJU3716M#-ND	16-Bit, 25mA, Serial to Parallel Output Expander*	24-SOIC	2.81	2.34	1.88
NJU6355ED#-ND	Serial In/Out Real Time Clock*	8-Dip	2.03	1.70	1.36
NJU39610D2#-ND	Microstepping Motor Controller with Dual DAC*	22-Dip	10.28	8.57	6.86
NJU39610FM2#-ND	Microstepping Motor Controller with Dual DAC*	28-PLCC	10.28	8.57	6.86
NJW1150M-ND	6-Channel Electronic Volume	30-SDMP	5.88	4.90	3.92
NJW1151M-ND	6-Channel Electronic Volume	30-SDMP	8.40	7.00	5.60
NJW1503AV-TE1CT-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1503AV-TE1TR-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2940.00/2,000		
NJW1504V-TE1CT-ND	PLL Synthesizer with I^2C Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1508V-TE1CT-ND	PLL Synthesizer with I^2C Bus for TV Tuner	16-SSOP	1.77	1.48	1.18
NJW1508V-TE1TR-ND	PLL Synthesizer with I^2C Bus for TV Tuner	16-SSOP	2065.00/2,000		

JRC / NJR Corporation Digi-Reel® SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1506R-TE2CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.47	1.23	.98
NJG1506R-TE2TR-ND	SPDT Switch, GaAs MMIC	8-VSP	1715.00/2,000		
NJG1512V-TE1CT-ND	SPDT Switch, GaAs MMIC	14-SSOP	2.28	1.90	1.52
NJG1512V-TE1TR-ND	SPDT Switch, GaAs MMIC	14-SSOP	2660.00/2,000		
NJG1516R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	2.10	1.75	1.40
NJG1516R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	2450.00/2,000		
NJG1519KC1-TE3CT-ND	SP4T Switch, GaAs MMIC	10-FLP	2.73	2.28	1.82
NJG1522KB2-TE1CT-ND	SPDT Switch, GaAs MMIC	6-FLP	1.26	1.05	.84
NJG1524APC1-TE1CT-ND	DPDT Switch, GaAs MMIC	16-FFP	2.94	2.45	1.96
NJG1524APC1-TE1TR-ND	DPDT Switch, GaAs MMIC	16-FFP	6860.00/4,000		
NJG1528KC1-TE3CT-ND	DPDT Switch, GaAs MMIC	10-FLP	3.48	2.90	2.32
NJG1528KC1-TE3TR-ND	DPDT Switch, GaAs MMIC	10-FLP	6090.00/3,000		
NJG1532KB2-TE2#CT-ND	SPDT Switch, GaAs MMIC*	6-FLP	1.47	1.23	.98
NJG1532KB2-TE2#TR-ND	SPDT Switch, GaAs MMIC*	6-FLP	2572.50/3,000		
NJG1544HC3-TE1CT-ND	2x2 Antenna Switch GaAs MMIC	10-USB	1.47	1.23	.98
NJG1544HC3-TE1TR-ND	2x2 Antenna Switch GaAs MMIC	10-USB	2572.50/3,000		
NJG1617K11-TE1CT-ND	Wireless LAN DPDT GaAs MMIC Switch	12-QFN	1.38	1.15	.92
NJM2233BD-ND	2-Input Single Video Switch	8-Dip	.42	.35	.28
NJM2234D-ND	3-Input Video Switch	8-Dip	.51	.43	.34
NJM2234M#-ND	3-Input Video Switch*	8-DMP	.87	.73	.58
NJM2244M#-ND	3-Input Video Switch*	8-DMP	.86	.72	.58
NJM2249M-ND	3-Input Video Switch	8-DMP	1.05	.88	.70
NJM2279D#-ND	3-Input, 2-Output Video Switch for AV-Set*	14-Dip	1.77	1.48	1.18
NJM2283D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM2283M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.35	1.13	.90
NJM2284V-TE1CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.14	.95	.76
NJM2284V-TE1TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1330.00/2,000		
NJM2285M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.17	.98	.78
NJM2285V-TE2CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.17	.98	.78
NJM2285V-TE2TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1365.00/2,000		
NJM2286D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM2286V-TE1#CT-ND	2-Input, 3-Channel Video Switch*	16-SSOP	1.64	1.37	1.09
NJM2286V-TE1#TR-ND	2-Input, 3-Channel Video Switch*	16-SSOP	1907.50/2,000		
NJM2296D-ND	5-Input, 3-Output Video Switch	16-Dip	2.19	1.83	1.46
NJM2296M-ND	5-Input, 3-Output Video Switch	16-DMP	1.98	1.65	1.32
NJM2506M-ND	3-Input, 2-Input Video Switch	16-DMP	1.08	.90	.72
NJM2508M-ND	3-Input, 2-Input Video Switch	16-DMP	1.26	1.05	.84
NJM2513M-ND	3-Input, 2-Input Video Switch	16-DMP	1.35	1.13	.90
NJM2520M-ND	2-Input, 1-Output Audio Switch	8-DMP	.48	.40	.32
NJM2521D-ND	3-Input, 1-Output Audio Switch	8-Dip	.66	.55	.44
NJM2533D-ND	2-Input, 1-Output Video Switch	8-Dip	.51	.43	.34
NJM2534D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2534M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2535D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2535M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2536AM-ND	RF Modulator for VHF Band	14-DMP	1.05	.88	.70
NJM2537V-TE1CT-ND	FM IF IC for Pagers	20-SSOP	2.70	2.25	1.80
NJM2542V-TE1CT-ND	VIF/SIF Demodulator	20-SSOP	1.77	1.48	1.18
NJM2542V-TE1TR-ND	VIF/SIF Demodulator	20-SSOP	2065.00/2,000		
NJM2584D-ND	Wideband 3-Circuits Video Switch	16-Dip	1.68	1.40	1.12
NJM2595M-ND	5-Input, 3-Output Video Switch	16-DMP	1.77	1.48	1.18
NJM2596M-ND	5-Input, 3-Output Video Switch for S2	24-DMP	3.36	2.80	2.24
NJM2670E3#-ND	Dual H-Bridge Driver*	24-EMP	5.87	4.90	3.92
NJM2902M#-ND	Quad Single Supply Op Amp*	14-DMP	1.17	.98	.78
NJM3403AM-ND	Single Supply Quad Op Amp	14-DMP	.96	.80	.64
NJU201AM#-ND	CMOS Quad SPST Switch*	16-DMP	2.31	1.93	1.54
NJU211D-ND	CMOS Quad SPST Switch	16-Dip	1.38	1.15	.92
NJU211M-ND	CMOS Quad SPST Switch	16-DMP	1.17	.98	.78
NJU4066BM-ND	1x1 Quad Switch	14-DMP	.72	.60	.48
NJU7301M-ND	CMOS Quad SPST Switch	16-DMP	1.44	1.20	.96
NJU7311AM-ND	Dual SPST Switch	30-DMP	3.36	2.80	2.24
NJU7312AM-ND	Dual DPST Switch	30-DMP	2.34	1.95	1.56
NJU7313AM-ND	Dual 4PST Switch	30-DMP	3.09	2.58	2.06
NJU7600RB1-TE1CT-ND	High Speed, Low Voltage Op Switching Regulator	8-TVSP	1.26	1.05	.84

SHARP MICROELECTRONICS OF THE AMERICAS Digi-Reel® LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ05DZ51J00H	425-2252-5-ND	5.0V, 0.5A, Reg. with On/Off Control*	SC-63	1.00	.76	.60
PQ05RA11J00H	425-2253-5-ND	5.0V, 1.0A, Reg. with On/Off Control*	TO-220	1.63	1.24	.98
PQ05RD08J00H	425-2254-5-ND	5.0V, 0.8A, Reg. with On/Off Control*	TO-220	1.00	.76	.60
PQ05RD1BJ00H	425-2255-5-ND	5.0V, 1.0A, Reg. with On/Off Control*	TO-220	1.03	.78	.62
PQ05RD11J00H	425-2444-5-ND	5.0V, 1.0A, Reg. with On/Off Control*	TO-220	1.10	.84	.66
PQ05RD21J00H	425-2256-5-ND	5.0V, 2.0A, Reg. with On/Off Control*	TO-220	1.43	1.09	.86
PQ05RR12	425-1599-5-ND	5.0V, 1.0A, Reg. with Reset, 5%	TO-220	1.70	1.30	1.02
PQ05VY3H3ZPH	425-2632-1-ND	5.0V, 3.5A, Reg. with On/Off Control*	TO-263	2.88	2.31	1.92
PQ05VY3H3ZPH	425-2632-2-ND	5.0V, 3.5A, Reg. with On/Off Control*	TO-263	1248.00/1,000		
PQ05VY3H3ZZH	425-2258-5-ND	5.0V, 3.5A, Reg. with On/Off Control*	TO-263	2.40	1.83	1.44
PQ05VY053ZPH	425-2631-1-ND	5.0V, 5.0A, Reg. with On/Off Control*	TO-263	2.55	1.94	1.69
PQ05VY053ZZ	425-1601-5-ND	5.0V, 5.0A, Reg. with On/Off Control	TO-263	1.94	1.53	1.38
PQ05VY053ZZH	425-2257-5-ND	5.0V, 5.0A, Reg. with On/Off Control*	TO-263	1.94	1.53	1.38
PQ07RX11	425-1609-5-ND	Adj., 1.0A, Reg. with On/Off Control	TO-220	1.28	.97	.77
PQ07VR5MAZZ	425-1610-5-ND	Adj., 0.5A, Reg. with Reset at 4.2V	SC-63	.90	.69	.54
PQ09DZ1U	425-1616-2-ND	9V, 1.0A, Reg. with On/Off Control	SC-63	1537.50/3,000		
PQ09DZ11J00H	425-2266-5-ND	9V, 1.0A, Reg. with On/Off Control*	SC-63	1.03	.78	.62
PQ09DZ51	425-1617-2-ND	9V, 0.5A, Reg. with On/Off Control	SC-63	1425.00/3,000		
PQ09RA1	425-1618-5-ND	9V, 1.0A, Reg. with On/Off Control, 5%	TO-220	1.48	1.13	.89
PQ09RA11	425-1619-5-ND	9V, 1.0A, Reg. with On/Off Control, 2.5%	TO-220	1.63	1.24	.98
PQ09RD08	425-1620-5-ND	9V, 0.8A, Reg. with On/Off Control	TO-220	1.00	.76	.60
PQ09RD11	425-1621-5-ND	9V, 1.0A, Reg. with On/Off Control	TO-220	1.13	.86	.68
PQ09RD1B	425-1622-5-ND	9V, 1.0A, Reg. with On/Off Control	TO-220 †	1.05	.80	.63
PQ09RD21J00H	425-2281-5-ND	9V, 2.0A, Reg. with On/Off Control*	TO-220	1.43	1.09	.86
PQ010FZ5MZZ	425-1551-5-ND	1.0V, 0.5A, Reg. with On/Off Control	SC-63	.83	.63	.50
PQ010FZ01ZZ	425-1550-5-ND	1.0V, 1.0A, Reg. with On/Off Control	SC-63	.93	.71	.56
PQ010GN01ZPH	425-2543-1-ND	1.0V, 1.0A, Reg. with On/Off Control*	SC-63	.84	.68	.56
PQ012FZ5MZZH	425-2219-5-ND	1.2V, 0.5A, Reg. with On/Off Control*	SC-63	.83	.63	.50
PQ012GN01ZPH	425-2544-1-ND	1.2V, 1.0A, Reg. with On/Off Control*	SC-63	.84	.68	.56
PQ015EF01SZ	425-1554-5-ND	1.5V, 1.0A, Reg. with On/Off Control	TO-220	.80	.61	.48
PQ015EF01SZH	425-2220-5-ND	1.5V, 1.0A, Reg. with On/Off Control*	TO-220	.80	.61	.48
PQ015EH01ZPH	425-2545-1-ND	1.5V, 1.0A, Reg. with On/Off Control*	TO-263	1.47	1.16	.76
PQ015EH01ZPH	425-2545-2-ND	1.5V, 1.0A, Reg. with On/Off Control*	TO-263	546.00/1,000		
PQ015EH01ZZ	425-1555-5-ND	1.5V, 1.0A, Reg. with On/Off Control	TO-263	1.05	.80	.63
PQ015EH02ZPH	425-2547-1-ND	1.5V, 2.0A, Reg. with On/Off Control*	TO-263	1.59	1.28	1.06
PQ015EH02ZZ	425-1556-5-ND	1.5V, 2.0A, Reg. with On/Off Control	TO-263	1.33	1.01	.80
PQ015ENA1ZPH	425-2619-1-ND	1.5V, 1.0A, Reg. with On/Off Control*	SC-63	1.20	.96	.80

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

SHARP MICROELECTRONICS OF THE AMERICAS DigiReel® (Cont.) LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ015ENA1ZPH	425-2619-2-ND	1.5V, 1.0A, Reg. with On/Off Control*	SC-63	1500.00/3,000		
PQ015EZ1HZPH	425-2627-1-ND	1.5V, 1.5A, Reg. with On/Off Control*	SC-63	1.44	1.16	.96
PQ015EZ1HZZ	425-1558-5-ND	1.5V, 1.5A, Reg. with On/Off Control	SC-63	1.20	.92	.72
PQ015EZ5MZZ	425-1559-5-ND	1.5V, 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ015Y3H3ZPH	425-2548-1-ND	1.5V, 3.5A, Reg. with On/Off Control*	TO-263	3.33	2.62	1.71
PQ015Y3H3ZPH	425-2548-2-ND	1.5V, 3.5A, Reg. with On/Off Control*	TO-263	1331.38/1,000		
PQ015Y3H3ZZ	425-1561-5-ND	1.5V, 3.5A, Reg. with On/Off Control	SC-63	2.38	1.81	1.43
PQ015YZ01ZZ	425-1562-5-ND	Adj., 1.0A, Reg. with On/Off Control	SC-63	.93	.71	.56
PQ015YZ5MZPH	425-2661-1-ND	Adj., 0.5A, Regulator*	SC-63	1.16	.91	.60
PQ015YZ5MZPH	425-2661-2-ND	Adj., 0.5A, Regulator*	SC-63	1237.50/3,000		
PQ015YZ5MZZ	425-1563-5-ND	1.5V, 0.5A, Reg. with On/Off Control	SC-63	.83	.63	.50
PQ018EF01SZ	425-1564-5-ND	1.8V, 1.0A, Reg. with On/Off Control	TO-220	.80	.61	.48
PQ018EF01SZH	425-2229-5-ND	1.8V, 1.0A, Reg. with On/Off Control*	TO-220	.80	.61	.48
PQ018EH01ZPH	425-2546-1-ND	1.8V, 1.0A, Reg. with On/Off Control*	TO-263	1.26	1.01	.84
PQ018EH01ZPH	425-2546-2-ND	1.8V, 1.0A, Reg. with On/Off Control*	TO-263	546.00/1,000		
PQ018EH01ZZ	425-1565-5-ND	1.8V, 1.0A, Reg. with On/Off Control	TO-263	1.05	.80	.63
PQ018EH02ZPH	425-2549-1-ND	1.8V, 2.0A, Reg. with On/Off Control*	TO-263	1.59	1.28	1.06
PQ018EH02ZZH	425-2231-5-ND	1.8V, 2.0A, Reg. with On/Off Control*	TO-263	1.33	1.01	.80
PQ018EN01ZPH	425-2623-1-ND	1.8V, 1.0A, Reg. with On/Off Control*	SC-63	1.40	1.10	.72
PQ018EN01ZPH	425-2623-2-ND	1.8V, 1.0A, Reg. with On/Off Control*	SC-63	1500.00/3,000		
PQ018ENA1ZPH	425-2620-1-ND	1.8V, 1.0A, Reg. with On/Off Control*	SC-63	1.20	.96	.80
PQ018EZ01ZZ	425-1567-5-ND	1.8V, 1.0A, Reg. with On/Off Control	SC-63	1.05	.80	.63
PQ018EZ02ZPH	425-2550-1-ND	1.8V, 2.0A, Reg. with On/Off Control*	SC-63	1.41	1.13	.94
PQ018EZ02ZPH	425-2550-2-ND	1.8V, 2.0A, Reg. with On/Off Control*	SC-63	1762.50/3,000		
PQ018EZ1HZPH	425-2551-1-ND	1.8V, 1.5A, Reg. with On/Off Control*	SC-63	1.44	1.16	.96
PQ018EZ1HZZ	425-1568-5-ND	1.8V, 1.5A, Reg. with On/Off Control	SC-63	1.20	.92	.72
PQ018EZ5MZZ	425-1569-5-ND	1.8V, 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ025EF02SZH	425-2688-5-ND	2.5V, 2.0A, Reg. with On/Off Control*	TO-220	1.10	.84	.66
PQ025EH01ZPH	425-2552-1-ND	2.5V, 1.0A, Reg. with On/Off Control*	TO-263	1.26	1.01	.84
PQ025EH01ZZ	425-1571-5-ND	2.5V, 1.0A, Reg. with On/Off Control	TO-263	1.05	.80	.63
PQ025EH02ZPH	425-2553-1-ND	2.5V, 2.0A, Reg. with On/Off Control*	TO-263	1.59	1.28	1.06
PQ025EH02ZZH	425-2237-5-ND	2.5V, 2.0A, Reg. with On/Off Control*	TO-263	1.33	1.01	.80
PQ025ENA1ZPH	425-2621-1-ND	2.5V, 1.0A, Reg. with On/Off Control*	SC-63	1.20	.96	.80
PQ025ENA1ZPH	425-2621-2-ND	2.5V, 1.0A, Reg. with On/Off Control*	SC-63	1500.00/3,000		
PQ025EZ01ZPH	425-2625-1-ND	2.5V, 1.0A, Reg. with On/Off Control*	SC-63	1.26	1.01	.84
PQ025EZ01ZPH	425-2625-2-ND	2.5V, 1.0A, Reg. with On/Off Control*	SC-63	1575.00/3,000		
PQ025EZ01ZZH	425-2238-5-ND	2.5V, 1.0A, Reg. with On/Off Control*	SC-63	1.05	.80	.63
PQ025EZ02ZPH	425-2554-1-ND	2.5V, 2.0A, Reg. with On/Off Control*	SC-63	1.41	1.13	.94
PQ025EZ02ZPH	425-2554-2-ND	2.5V, 2.0A, Reg. with On/Off Control*	SC-63	1762.50/3,000		
PQ025EZ1HZZ	425-1574-5-ND	2.5V, 1.5A, Reg. with On/Off Control	SC-63	1.20	.92	.72
PQ025EZ5MZZ	425-1575-5-ND	2.5V, 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ025Y3H3ZZ	425-1577-5-ND	2.5V, 3.5A, Reg. with On/Off Control	SC-63	2.38	1.81	1.43
PQ030EZ01ZZ	425-1578-5-ND	3.0V, 1.0A, Reg. with On/Off Control	SC-63	1.05	.80	.63
PQ030EZ1HZZ	425-1579-5-ND	3.0V, 1.5A, Reg. with On/Off Control	SC-63	1.20	.92	.72
PQ030EZ5MZZ	425-1580-5-ND	3.0V, 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ033EF01SZH	425-2245-5-ND	3.3V, 1.0A, Reg. with On/Off Control*	TO-220	.80	.61	.48
PQ033ENA1ZPH	425-2622-1-ND	3.3V, 1.0A, Reg. with On/Off Control*	SC-63	1.20	.96	.80
PQ033EZ1HZPH	425-2557-1-ND	3.3V, 1.5A, Reg. with On/Off Control*	SC-63	1.44	1.16	.96
PQ033EZ1HZZH	425-2247-5-ND	3.3V, 1.5A, Reg. with On/Off Control*	SC-63	1.20	.92	.72
PQ033EZ5MZZ	425-1585-5-ND	3.3V, 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ033Y053ZZ	425-1586-5-ND	3.3V, 5.0A, Reg. with On/Off Control	SC-63	1.94	1.53	1.38
PQ033Y3H3ZPH	425-2558-1-ND	3.3V, 3.5A, Reg. with On/Off Control*	TO-263	3.33	2.62	1.71
PQ033Y3H3ZZ	425-1587-5-ND	3.3V, 3.5A, Reg. with On/Off Control	SC-63	2.38	1.81	1.43
PQ033Y3H3ZZH	425-2250-5-ND	3.3V, 3.5A, Reg. with On/Off Control*	SC-63	2.38	1.81	1.43
PQ035ZN01ZPH	425-2628-1-ND	3.5V, 1.0A, Reg. with On/Off Control*	SC-63	.87	.70	.58
PQ050RDA2SZH	425-2629-5-ND	5.0V, 2.0A, Reg. with On/Off Control*	TO-220	.85	.65	.51
PQ070VK01FZH	425-2560-5-ND	Adj., 1.0A, Reg. with On/Off Control*	TO-220-5	1.59	1.21	.96
PQ070XF01SZH	425-2689-5-ND	7.0V, 1.0A, Reg. with On/Off Control*	TO-220	.80	.61	.48
PQ070XH01ZPH	425-2633-1-ND	Adj., 1.0A, Reg. with On/Off Control*	TO-263	1.47	1.16	.76
PQ070XH01ZPH	425-2633-2-ND	Adj., 1.0A, Reg. with On/Off Control*	TO-263	546.00/1,000		
PQ070XH01ZZ	425-1604-5-ND	Adj., 1.0A, Reg. with On/Off Control	TO-263	1.05	.80	.63
PQ070XH02ZPH	425-2634-1-ND	Adj., 2.0A, Reg. with On/Off Control*	TO-263	1.59	1.28	1.06
PQ070XH02ZZH	425-2260-5-ND	Adj., 2.0A, Reg. with On/Off Control*	TO-263	1.33	1.01	.80
PQ070XNA1ZPH	425-2662-1-ND	7.0V, 1.0A, Regulator*	SC-63	1.20	.96	.80
PQ070XZ01ZPH	425-2635-1-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	1.26	1.01	.84
PQ070XZ01ZPH	425-2635-2-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	1575.00/3,000		
PQ070XZ01ZZH	425-2261-5-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	1.05	.80	.63
PQ070XZ02ZPH	425-2636-1-ND	Adj., 2.0A, Reg. with On/Off Control*	SC-63	1.65	1.30	.85
PQ070XZ02ZPH	425-2636-2-ND	Adj., 2.0A, Reg. with On/Off Control*	SC-63	1762.50/3,000		
PQ070XZ1HZPH	425-2637-1-ND	Adj., 1.5A, Reg. with On/Off Control*	SC-63	1.44	1.16	.96
PQ070XZ5MZZ	425-1608-5-ND	Adj., 0.5A, Reg. with On/Off Control	SC-63	1.00	.76	.60
PQ090DNA1ZPH	425-2638-1-ND	9.0V, 1.0A, Reg. with On/Off Control*	SC-63	.84	.58	.47
PQ090DNA1ZPH	425-2638-2-ND	9.0V, 1.0A, Reg. with On/Off Control*	SC-63	819.00/3,000		
PQ1K253M2ZP	425-1643-1-ND	2.5V, 0.3A, Reg. with On/Off Control	SOT-23L	.64	.44	.36
PQ1K253M2ZP	425-1643-2-ND	2.5V, 0.3A, Reg. with On/Off Control	SOT-23L	1000.00/5,000		
PQ1K303M2ZP	425-1644-1-ND	3.0V, 0.3A, Reg. with On/Off Control	SOT-23L	.64	.44	.36
PQ1K303M2ZP	425-1644-2-ND	3.0V, 0.3A, Reg. with On/Off Control	SOT-23L	1000.00/5,000		
PQ1K333M2ZP	425-1645-1-ND	3.3V, 0.3A, Reg. with On/Off Control	SOT-23L	.64	.44	.36
PQ1K503M2ZP	425-1650-1-ND	5.0V, 0.3A, Reg. with On/Off Control	SOT-23L	.64	.44	.36
PQ1L253M2SP	425-1651-1-ND	2.5V, 0.3A, Reg. with On/Off Control	SOT-89	.60	.42	.33
PQ1L303M2SP	425-1652-1-ND	3.0V, 0.3A, Reg. with On/Off Control	SOT-89	.60	.42	.33
PQ1M185M2SPQ	425-2676-1-ND	1.8V, 0.5A Reg. with On/Off Control*	SOT-89-5	.72	.50	.40
PQ1M185M2SPQ	425-2676-2-ND	1.8V, 0.5A Reg. with On/Off Control*	SOT-89-5	243.00/1,000		
PQ1R18	425-1655-1-ND	1.8V, 150mA, Reg. with On/Off Control	SOT-23L	.80	.55	.44
PQ1R23	425-1656-1-ND	2.3V, 150mA, Reg. with On/Off Control	SOT-23L	.80	.55	.44
PQ1R25	425-1657-1-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.58	.47
PQ1R25	425-1657-2-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23L	1312.50/5,000		
PQ1R27	425-1658-1-ND	2.7V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.58	.47
PQ1R27	425-1658-2-ND	2.7V, 150mA, Reg. with On/Off Control	SOT-23L	1312.50/5,000		
PQ1R28	425-1659-1-ND	2.8V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.58	.47
PQ1R28	425-1659-2-ND	2.8V, 150mA, Reg. with On/Off Control	SOT-23L	1312.50/5,000		
PQ1R28J0000H	425-2316-1-ND	2.8V, 150mA, Reg. w/On/Off Control*	SOT-23L	.84	.58	.47
PQ1R28J0000H	425-2316-2-ND	2.8V, 150mA, Reg. w/On/Off Control*	SOT-23L	1312.50/5,000		
PQ1R38	425-1662-1-ND	3.8V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.58	.47
PQ1R47	425-1664-1-ND	4.7V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.68	.56
PQ1R50	425-1665-1-ND	5.0V, 150mA, Reg. with On/Off Control	SOT-23L	.84	.58	.47
PQ1R50J0000H	425-2321-1-ND	5.0V, 150mA, Reg. w/On/Off Control*	SOT-23L	.84	.58	.47
PQ1R50J0000H	425-2321-2-ND	5.0V, 150mA, Reg. w/On/Off Control*	SOT-23L	1312.50/5,000		
PQ1T251M2ZP	425-1670-2-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23-5	975.00/3,000		
PQ1T301M2ZP	425-1674-1-ND	3.0V, 150mA, Reg. with On/Off Control	SOT-23-5	.78	.63	.52
PQ1U181M2ZPH	425-2322-1-ND	1.8V, 0.3A, Reg. with On/Off Control*	SOT-23-5	.72	.50	.40
PQ1U181M2ZPH	425-2322-2-ND	1.8V, 0.3A, Reg. with On/Off Control*	SOT-23-5	702.00/3,000		
PQ1U251M2ZP	425-1692-1-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23-5	.72	.50	.40

SHARP MICROELECTRONICS OF THE AMERICAS DigiReel® (Cont.) LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ1U251M2ZP	425-1692-2-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23-5	702.00/3,000		
PQ1U251M2ZPH	425-2323-1-ND	2.5V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.72	.50	.40
PQ1U251M2ZPH	425-2323-2-ND	2.5V, 150mA, Reg. w/On/Off Control*	SOT-23-5	702.00/3,000		
PQ1U281M2ZPH	425-2324-1-ND	2.8V,150mA, Reg. with On/Off Control	SOT-23-5	.72	.50	.40
PQ1U281M2ZPH	425-2324-2-ND	2.8V, 150mA, Reg. with On/Off Control	SOT-23-5	702.00/3,000		
PQ1U301M2ZP	425-1696-1-ND	3.0V, 150mA, Reg. with On/Off Control	SOT-23-5	.72	.50	.40
PQ1U301M2ZPH	425-2325-1-ND	3.0V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.72	.50	.40
PQ1U301M2ZPH	425-2325-2-ND	3.0V, 150mA, Reg. w/On/Off Control*	SOT-23-5	702.00/3,000		
PQ1U351M2ZP	425-1701-1-ND	3.5V, 150mA, Reg. with On/Off Control	SOT-23-5	.72	.50	.40
PQ1U501M2ZPH	425-2328-1-ND	5.0V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.72	.50	.40
PQ1LAX95MSPQ	425-2643-1-ND	Adj., 0.5A, Reg. with On/Off Control*	SOT-89	.60	.42	.33
PQ1X251M2ZP	425-1710-1-ND	2.5V, 150mA, Reg. with On/Off Control	SOT-23-5	.60	.42	.33
PQ1X251M2ZPH	425-2329-1-ND	2.5V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.60	.42	.33
PQ1X251M2ZPH	425-2329-2-ND	2.5V, 150mA, Reg. w/On/Off Control*	SOT-23-5	585.00/3,000		
PQ1X281M2ZP	425-1711-1-ND	2.8V, 150mA, Reg. with On/Off Control	SOT-23-5	.60	.42	.33
PQ1X281M2ZPH	425-2330-1-ND	2.8V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.60	.42	.33
PQ1X281M2ZPH	425-2330-2-ND	2.8V, 150mA, Reg. w/On/Off Control*	SOT-23-5	585.00/3,000		
PQ1X291M2ZP	425-1712-1-ND	2.9V, 150mA, Reg. with On/Off Control	SOT-23-5	.60	.42	.33
PQ1X291M2ZPH	425-2331-1-ND	2.9V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.60	.42	.33
PQ1X501M2ZPH	425-2335-1-ND	5.0V, 150mA, Reg. w/On/Off Control*	SOT-23-5	.60	.42	.33
PQ1X501M2ZPH	425-2335-2-ND	5.0V, 150mA, Reg. w/On/Off Control*	SOT-23-5	585.00/3,000		
PQ2L3152MSPQ	425-2644-1-ND	Adj., 0.25A, Dual Output Regulator*	SOT-89	.84	.58	.47
PQ3DZ53	425-1729-5-ND	3.3V, 0.5A, Reg. with On/Off Control	SC-63	1.03	.78	.62
PQ3DZ53J000H	425-2343-5-ND	3.3V, 0.5A, Reg. with On/Off Control*	SC-63	1.03	.78	.62
PQ3DZ53U	425-1729-2-ND	3.3V, 0.5A, Reg. with On/Off Control	SC-63	1537.50/3,000		
PQ3RD083	425-1731-5-ND	3.3V, 0.8A, Reg. with On/Off Control	TO-220	1.00	.76	.60
PQ3RD13BJ00H	425-2345-5-ND	3.3V, 1.0A, Reg. with On/Off Control*	TO-220	1.08	.82	.65
PQ3RD13J000H	425-2346-5-ND	3.3V, 1.0A, Reg. with On/Off Control*	T O-220	1.00	.76	.60
PQ3RF33J000H	425-2348-5-ND	3.3V, 3.5A, Reg. with On/Off Control*	TO-220	2.15	1.70	1.53
PQ3TR5M3BZZ	425-1738-5-ND	3.3V, 0.5A, Reg. with Reset at 4.3V	SC-63	.95	.73	.57
PQ3TR5M4AZZ	425-1741-5-ND	3.3V, 0.5A, Reg. with Reset	SC-63	.95	.73	.57
PQ5EV3	425-1742-5-ND	Adj., 3.5A, Reg. with On/Off Control	TO-220	2.38	1.81	1.43
PQ5EV3J0000H	425-2349-5-ND	Adj., 3.5A, Reg. with On/Off Control*	TO-220	2.38	1.81	1.43
PQ5EV5J0000H	425-2350-5-ND	Adj., 5A, Reg. with On/Off Control*	TO-220	1.94	1.53	1.38
PQ5RS1A	425-1745-5-ND	5V, 0.15A, Reg. with Reset at 4.7	TO-220	.93	.71	.56
PQ6RD083	425-1752-5-ND	6.3V, 0.8A, Reg. with On/Off Control	TO-220	1.00	.76	.60
PQ6RD083J00H	425-2352-5-ND	6.3V, 0.8A, Reg. with On/Off Control*	TO-220	1.00	.76	.60
PQ6RD83B	425-1753-5-ND	6.3V, 0.8A, Reg. with On/Off Control	TO-220 †	1.03	.78	.62
PQ6RD83BJ00H	425-2353-5-ND	6.3V, 0.8A, Reg. with On/Off Control*	TO-220	1.03	.78	.62
PQ12DZ11J00H	425-2282-5-ND	Regulator LDO 12V, 1A On/Off*	SC-63	1.03	.78	.62
PQ12RA11	425-1627-5-ND	12V, 1.0A, Reg. with On/Off Control, 2.5%	TO-220	1.63	1.24	.98
PQ12RD08J00H	425-2285-5-ND	12V, 0.8A, Reg. with On/Off Control*	TO-220	1.00	.76	.60
PQ12RD1B	425-1630-5-ND	12V, 1.0A, Reg. with On/Off Control	TO-220 †	1.25	.95	.75
PQ12RD8S	425-1632-5-ND	12V, 0.8A, Reg. with On/Off Control	TO-220 †	.80	.61	.48
PQ12RD21J00H	425-2287-5-ND	12V, 2.0A, Reg. with On/Off Control*	TO-220	1.43	1.09	.86
PQ15RF15	425-1633-5-ND	15.7V, 1.0A, Reg. with On/Off Control, 5%	TO-220	1.60	1.22	.96
PQ15RF1G	425-1635-5-ND	15.7V, 1.0A, Reg. with On/Off Control	TO-220 †	1.80	1.37	1.08
PQ15RW08J00H	425-2289-5-ND	Adj., 0.8A, Regulator*	TO-220	1.00	.76	.60
PQ15RW1B	425-1640-5-ND	Adj., 1.0A, Regulator	TO-220 †	1.13	.86	.68
PQ15RW1BJ00H	425-2291-5-ND	Adj., 1.0A, Regulator*	TO-220	1.13	.86	.68
PQ15RW11J00H	425-2290-5-ND	Adj., 1.0A, Regulator*	TO-220	1.00	.76	.60
PQ20WZ1UJ00H	425-2338-1-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	1.23	.99	.82
PQ20WZ11J00H	425-2338-5-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	1.03	.78	.62
PQ25VB012FZ	425-1725-5-ND	Adj., 1.0A, Reg. with On/Off Control	TO-220	1.48	1.13	.89
PQ25VB8M2FZ	425-1726-5-ND	Adj., 0.8A, Reg. with On/Off Control	SC-63	1.40	1.07	.84
PQ120DNA1ZPH	425-2639-1-ND	12V, 1.0A, Reg. with On/Off Control*	SC-63	.84	.58	.47
PQ120RDA1SZH	425-2692-5-ND	12V, 1.0A, Reg. with On/Off Control*	TO-220	.68	.52	.41
PQ120RDA2SZH	425-2640-5-ND	12V, 2.0A, Reg. with On/Off Control*	TO-220	.63	.48	.38
PQ200WNA1ZPH	425-2678-1-ND	Adj., 1.0A, Reg. with On/Off Control*	SC-63	.81	.65	.54

† Lead Form

SHARP MICROELECTRONICS OF THE AMERICAS DigiReel® CHOPPER REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ1CG21H2FZ	425-1761-5-ND	Adj., 1.5A, Chopper Reg. with On/Off	TO-220	1.70	1.30	1.02
PQ1CG21H2FZH	425-2295-5-ND	Adj., 1.5A, Chopper Reg. with On/Off*	TO-220	1.70	1.30	1.02
PQ1CG21H2RZ	425-1762-5-ND	Adj., 1.5A, Chopper Reg. with On/Off	TO-220	1.60	1.22	.96
PQ1CG21H2RZH	425-2296-5-ND	Adj., 1.5A, Chopper Reg. with On/Off*	TO-220	1.60	1.22	.96
PQ1CZ21H2ZZH	425-2302-5-ND	Adj., 1.5A, Chopper Reg. with On/Off*	SC-63	2.03	1.54	1.22
PQ1CG38M2FZ	425-1765-5-ND	Adj., 0.8A, Chopper Reg. with On/Off	TO-220	1.38	1.05	.83
PQ1CG38M2FZH	425-2299-5-ND	Adj., 0.8A, Chopper Reg. with On/Off*	TO-220	1.38	1.05	.83
PQ1CG38M2RZ	425-1766-5-ND	Adj., 0.8A, Chopper Reg. with On/Off	TO-220	1.38	1.05	.83
PQ1CG41H2RZH	425-2691-5-ND	Adj., 1.5A, Chopper Reg. with On/Off*	TO-220	1.33	1.01	.80
PQ1CG2032FZ	425-1759-5-ND	Adj., 3.5A, Chopper Reg. with On/Off	TO-220	1.90	1.45	1.14
PQ1CG2032RZ	425-1760-5-ND	Adj., 3.5A, Chopper Reg. with On/Off	TO-220	1.90	1.45	1.14
PQ1CG2032RZH	425-2294-5-ND	Adj., 3.5A, Chopper Reg. with On/Off*	TO-220	1.90	1.45	1.14
PQ1CG3032RZ	425-1764-5-ND	Adj., 3.5A, Chopper Reg. with On/Off	TO-220	1.90	1.45	1.14
PQ1CG3032RZH	425-2298-5-ND	Adj., 3.5A, Chopper Reg. with On/Off*	TO-220	1.90	1.45	1.14
PQ1CY1032ZPH	425-2641-1-ND	Adj., 3.5A, Chopper Reg. with On/Off*	TO-263	2.52	2.02	1.68
PQ1CZ38M2ZZ	425-1769-5-ND	Adj., 0.8A, Chopper Reg. with On/Off	SC-63	1.23	.94	.74
PQ1CZ41H2ZPH	425-2642-1-ND	Adj., 1.5A, Chopper Reg. with On/Off*	SC-63	1.59	1.28	1.06
PQ2CF1J0000H	425-2340-5-ND	Adj., 2.5A, Step-Up Chopper Reg.*	TO-220	2.72	2.15	1.94
PQ6CU11X1APQ	425-2646-1-ND	Adj., 2.5A CMOS Step-Up Chopper Reg.*	SOT-23-6	1.59	1.28	1.06

SHARP MICROELECTRONICS OF THE AMERICAS DigiReel® LED DRIVERS

RoHS Compliant

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IR2D07	425-2711-5-ND	16-Bit LED Panel Driver	28-SDip	2.79	2.24	1.87
IR2D20U	425-2712-ND	Constant Current LED Driver	52-HQFN	3.54	2.70	2.34
IR2E46Y6	425-2707-1-ND	Illumination/Flash RGB-LED Driver	33-WLCSP	2.68	2.04	1.77
IR2E46Y6	425-2707-2-ND	Illumination/Flash RGB-LED Driver	33-WLCSP	2782.00/2,000		
IR2E49U6	425-2708-1-ND	Current Driver IC for LED	36-VQFN	5.40	4.11	3.57
IR2E49U6	425-2708-2-ND	Current Driver IC for LED	36-VQFN	5618.34/2,000		
IR2E51Y6	425-2709-1-ND	White-LED Driver IC for LCD Backlight	35-WLCSP	4.01	3.05	2.65
IR2E51Y6	425-2709-2-ND	White-LED Driver IC for LCD Backlight	35-WLCSP	4167.02/2,000		
IR2E53Y6	425-2710-1-ND	6 Segment LED Driver IC	35-WLCSP	3.50	2.66	2.31
IR2E53Y6	425-2710-2-ND	6 Segment LED Driver IC	35-WLCSP	3640.00/2,000		
PQ6CB11X1CP	425-2645-1-ND	250mA Compact SMD CMOS Step-Up LED Driver	6-SMD	2.15	1.72	1.44
PQ6CB11X1CP	425-2645-2-ND	250mA Compact SMD CMOS Step-Up LED Driver	6-SMD	2687.25/3,000		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ROHM SEMICONDUCTOR Digi-Reel®

INTEGRATED CIRCUITS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BA00BC0WT-ND	Adj., 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA00CC0WT-ND	Adj., 1A LDO Voltage Regulator	TO-220FP-5	1.57	1.26	.95
BA03CC0T-ND	3V, 1A LDO Voltage Regulator	TO-220FP	1.82	1.52	1.22
BA03CC0WT-ND	3V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA05CC0T-ND	5V, 1A LDO Voltage Regulator	TO-220FP	1.82	1.52	1.22
BA05CC0WT-ND	5V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA07CC0T-ND	7V, 1A LDO Voltage Regulator	TO-220FP	1.82	1.52	1.22
BA07CC0WT-ND	7V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA08CC0T-ND	8V, 1A LDO Voltage Regulator	TO-220FP-5	1.82	1.52	1.22
BA08CC0WT-ND	8V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA09CC0T-ND	9V, 1A LDO Voltage Regulator	TO-220FP	1.82	1.52	1.22
BA09CC0WT-ND	9V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA15BC0T-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA15BC0WT-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.76	1.47	1.18
BA18BC0T-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.84	1.53	1.23
BA18BC0WT-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	2.20	1.84	1.47
BA25BC0T-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA25BC0WT-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.76	1.47	1.18
BA30BC0T-ND	3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA30BC0WT-ND	3V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA33BC0T-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA33BC0WT-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.76	1.47	1.18
BA50BC0WT-ND	5V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA60BC0T-ND	6V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA60BC0WT-ND	6V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA70BC0T-ND	7V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA70BC0WT-ND	7V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA80BC0T-ND	8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA80BC0WT-ND	8V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA90BC0T-ND	9V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.47	1.23	.98
BA90BC0WT-ND	9V, 1A LDO Voltage Regulator with Low Saturation/ Shutdown	TO-220FP-5	1.76	1.47	1.18
BA028LBSG2-CT-ND	2.8V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA028LBSG2-TR-ND	2.8V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA029LBSG2-CT-ND	2.9V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA029LBSG2-TR-ND	2.9V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA030LBSG2-CT-ND	3V, 150mA Low Saturation Regulator	5-SMP	.87	.66	.49
BA030LBSG2-TR-ND	3V, 150mA Low Saturation Regulator	5-SMP	846.00/3,000		
BA032LBSG2-CT-ND	3.2V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA032LBSG2-TR-ND	3.2V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA033CC0T-ND	3.3V, 1A Low Saturation Regulator	TO-220FP	1.82	1.52	1.22
BA033CC0WT-ND	3.3V, 1A Low Saturation Regulator with Shutdown	TO-220FP-5	1.88	1.57	1.26
BA033LBSG2-CT-ND	3.3V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA036LBSG2-CT-ND	3.6V, 150mA Low Saturation Regulator	5-SMP	1.14	.86	.65
BA036LBSG2-TR-ND	3.6V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA038LBSG2-CT-ND	3.8V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA038LBSG2-TR-ND	3.8V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA040LBSG2-CT-ND	4V, 150mA Low Saturation Regulator	5-SMP	.86	.72	.57
BA040LBSG2-TR-ND	4V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA050LBSG2-CT-ND	5V, 150mA Low Saturation Regulator	5-SMP	1.14	.86	.65
BA050LBSG2-TR-ND	5V, 150mA Low Saturation Regulator	5-SMP	1113.00/3,000		
BA178M05T-ND	5V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M06T-ND	6V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M07T-ND	7V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M08T-ND	8V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M09T-ND	9V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M12T-ND	12V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M15T-ND	15V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M18T-ND	18V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.36	1.02	.77
BA178M20T-ND	20V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	1.35	1.02	.77
BA178M24T-ND	24V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA823F-E2CT-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	1.40	1.12	.84
BA823F-E2TR-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	5120.00/2,500		
BA829-ND	8-Bit Serial In/Parallel Out Driver	18-Dip	5.05	4.04	3.03
BA2115F-E2CT-ND	7V, Dual Low Noise Op Amp ***NEW!***	8-SOP	.92	.69	.52
BA2115F-E2TR-ND	7V, Dual Low Noise Op Amp ***NEW!***	8-SOP	747.50/2,500		
BA2115FVM-CT-ND	7V, Dual Low Noise Op Amp ***NEW!***	8-MSOP	.92	.69	.52
BA2115FVM-TR-ND	7V, Dual Low Noise Op Amp ***NEW!***	8-MSOP	897.00/3,000		
BA2901F-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	.60	.45	.34
BA2901F-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	585.00/2,500		
BA2901KN-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	.90	.75	.60
BA2901KN-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	1030.00/2,500		
BA2901SF-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	14-SOP	.62	.47	.36
BA2901SF-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	14-SOP	507.50/2,500		
BA2901SFV-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	SSOP-B14	.62	.47	.36
BA2901SFV-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	SSOP-B14	507.50/2,500		
BA2901SKN-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	16-VQFN	.71	.54	.40
BA2901SKN-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator ***NEW!***	16-VQFN	575.00/2,500		
BA2902F-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	.84	.63	.48
BA2902F-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	680.00/2,500		
BA2902FV-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SSOP	.84	.63	.48
BA2902FV-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SSOP	680.00/2,500		
BA2902KN-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	.90	.75	.60
BA2902KN-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	1030.00/2,500		
BA2902SF-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp ***NEW!***	14-SOP	.71	.54	.41
BA2902SF-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp ***NEW!***	14-SOP	577.50/2,500		
BA2902SFV-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp ***NEW!***	SSOP-B14	.71	.54	.41
BA2902SFV-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp ***NEW!***	SSOP-B14	577.50/2,500		
BA2903FV-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SSOP	.56	.42	.32
BA2903FV-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SSOP	455.00/2,500		
BA2903FVM-CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-MSOP	.56	.42	.32

ROHM SEMICONDUCTOR Digi-Reel® *(Cont.)*

INTEGRATED CIRCUITS

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BA2903HFVM-CCT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-MSOP	1.12	.94	.75
BA2903HFVM-CTR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-MSOP	1455.00/3,000		
BA2903SF-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-SOP	.58	.47	.35
BA2903SF-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-SOP	392.50/2,500		
BA2903SFV-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	SSOP-B8	.46	.35	.27
BA2903SFV-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	SSOP-B8	377.50/3,000		
BA2903SFVM-CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-MSOP	.46	.35	.27
BA2903SFVM-TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator ***NEW!***	8-MSOP	453.00/3,000		
BA2904F-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	.68	.51	.39
BA2904F-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	550.00/2,500		
BA2904FV-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SSOP	.56	.42	.32
BA2904FV-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SSOP	550.00/2,500		
BA2904FVM-CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	.68	.51	.39
BA2904FVM-TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	660.00/3,000		
BA2904HFVM-CCT-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	1.12	.94	.75
BA2904HFVM-CTR-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	1455.00/3,000		
BA2904SF-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-SOP	.58	.47	.35
BA2904SF-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-SOP	392.50/2,500		
BA2904SFV-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	SSOP-B8	.46	.35	.27
BA2904SFV-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	SSOP-B8	377.50/2,500		
BA2904SFVM-CT-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	.46	.35	.27
BA2904SFVM-TR-ND	32V, 0.7mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	453.00/3,000		
BA3121F-E2CT-ND	Ground Isolation Amp for Car Audio System	8-SOP	2.00	1.67	1.34
BA3121F-E2TR-ND	Ground Isolation Amp for Car Audio System	8-SOP	2167.50/2,500		
BA3404F-E2CT-ND	36V, 2mA Ground Sense Dual Op Amp ***NEW!***	8-SOP	.81	.68	.54
BA3404F-E2TR-ND	36V, 2mA Ground Sense Dual Op Amp ***NEW!***	8-SOP	877.50/2,500		
BA3404FVM-CT-ND	36V, 2mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	.81	.68	.54
BA3404FVM-TR-ND	36V, 2mA Ground Sense Dual Op Amp ***NEW!***	8-MSOP	1053.00/3,000		
BA3472F-E2CT-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	8-SOP	1.84	1.54	1.23
BA3472F-E2TR-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	8-SOP	1992.50/2,500		
BA3472FV-E2CT-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	SSOP-B8	1.84	1.54	1.23
BA3472FV-E2TR-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	SSOP-B8	1992.50/2,500		
BA3472FVM-CT-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	8-MSOP	1.84	1.54	1.23
BA3472FVM-TR-ND	36V, 4mA High Speed Dual Op Amp ***NEW!***	8-MSOP	2391.00/3,000		
BA4510F-E2CT-ND	3.5V, Low Noise Dual Op Amp ***NEW!***	8-SOP	.70	.53	.40
BA4510F-E2TR-ND	3.5V, Low Noise Dual Op Amp ***NEW!***	8-SOP	570.00/2,500		
BA4510FV-E2CT-ND	3.5V, Low Noise Dual Op Amp ***NEW!***	SSOP-B8	.70	.53	.40
BA4510FV-E2TR-ND	3.5V, Low Noise Dual Op Amp ***NEW!***	SSOP-B8	570.00/2,500		
BA4558F-E2CT-ND	36V, Dual Op Amp	8-SOP	.59	.47	.36
BA4558F-E2TR-ND	36V, Dual Op Amp	8-SOP	395.00/2,500		
BA4558RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.50	.40	.30
BA4558RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	392.50/2,500		
BA4558RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SSOP	.50	.40	.30
BA4558RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SSOP	392.50/2,500		
BA4558RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4560-ND	36V, Dual High Slew Rate Op Amp	8-Dip	.91	.73	.55
BA4560F-E2CT-ND	36V, Dual High Slew Rate Op Amp	8-SOP	.53	.43	.32
BA4560F-E2TR-ND	36V, Dual High Slew Rate Op Amp	8-SOP	357.50/2,500		
BA4560RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.59	.48	.36
BA4560RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	397.50/2,500		
BA4560RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SSOP	.59	.48	.36
BA4560RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SSOP	397.50/2,500		
BA4560RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4560RFVM-TR-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	477.00/3,000		
BA4580RF-E2CT-ND	16V, 6mA Low Noise Dual Op Amp ***NEW!***	8-SOP	.52	.40	.30
BA4580RF-E2TR-ND	16V, 6mA Low Noise Dual Op Amp ***NEW!***	8-SOP	425.00/2,500		
BA4580RFVM-CT-ND	16V, 6mA Low Noise Dual Op Amp ***NEW!***	8-MSOP	.52	.40	.30
BA4580RFVM-TR-ND	16V, 6mA Low Noise Dual Op Amp ***NEW!***	8-MSOP	510.00/3,000		
BA6219BFP-YE2CT-ND	Motor Driver with DC Brush	25-HSOP	1.80	1.44	1.08
BA6219BFP-YE2TR-ND	Motor Driver with DC Brush	25-HSOP	4186.00/2,000		
BA6285AFP-YE2CT-ND	Reversible Motor Driver	25-HSOP	1.50	1.20	.90
BA6285AFP-YE2TR-ND	Reversible Motor Driver	25-HSOP	3926.00/2,000		
BA6287F-E2CT-ND	Reversible Motor Driver	8-SOP	2.74	2.28	1.83
BA6287F-E2TR-ND	Reversible Motor Driver	8-SOP	2965.00/2,500		
BA6845FS-E2CT-ND	Stepping Motor Driver	A16-SSOP	4.14	3.45	2.76
BA6845FS-E2TR-ND	Stepping Motor Driver	A16-SSOP	4485.00/2,500		
BA6920FP-YE2CT-ND	Motor Driver with DC Brush	25-HSOP	3.70	2.96	2.22
BA6920FP-YE2TR-ND	Motor Driver with DC Brush	25-HSOP	3848.00/2,000		
BA7046F-E2CT-ND	Synchronous Separator with AFC	8-SOP	2.68	2.24	1.79
BA7046F-E2TR-ND	Synchronous Separator with AFC	8-SOP	2905.00/2,500		
BA7071F-E2CT-ND	Synchronous Separator with AFC	8-SOP	1.90	1.52	1.14
BA7071F-E2TR-ND	Synchronous Separator with AFC	8-SOP	3775.00/2,500		
BA7602F-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	2.72	2.18	1.70
BA7602F-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	3812.50/2,500		
BA7603F-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	2.59	2.07	1.61
BA7603F-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	3622.50/2,500		
BA7606F-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	4.03	3.23	2.51
BA7606F-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	5637.50/2,500		
BA7606FS-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SSOP	4.03	3.23	2.51
BA7606FS-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SSOP	5637.50/2,500		
BA7609F-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	2.54	2.04	1.59
BA7609F-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	16-SOP	3560.00/2,500		
BA7626F-E2CT-ND	Dual Circuit Video Signal Switcher ***NEW!***	16-SOP	4.01	3.21	2.50
BA7626F-E2TR-ND	Dual Circuit Video Signal Switcher ***NEW!***	16-SOP	5607.50/2,500		
BA7653AF-E2CT-ND	Single Circuit Video Signal Switcher ***NEW!***	8-SOP	1.78	1.43	1.07
BA7653AF-E2TR-ND	Single Circuit Video Signal Switcher ***NEW!***	8-SOP	2277.50/2,500		
BA7653AFV-E2CT-ND	Single Circuit Video Signal Switcher ***NEW!***	SSOP-B8	1.30	1.04	.78
BA7653AFV-E2TR-ND	Single Circuit Video Signal Switcher ***NEW!***	SSOP-B8	1657.50/2,500		
BA7654F-E2CT-ND	Single Circuit Video Signal Switcher ***NEW!***	8-SOP	1.31	1.05	.79
BA7654F-E2TR-ND	Single Circuit Video Signal Switcher ***NEW!***	8-SOP	1677.50/2,500		
BA7657F-E2CT-ND	Triple Circuit Video Signal Switcher ***NEW!***	24-SOP	3.58	2.87	2.23
BA7657F-E2TR-ND	Triple Circuit Video Signal Switcher ***NEW!***	24-SOP	4054.00/2,000		
BA9743AFV-E2CT-ND	2-Channel Switching Regulator Controller	16-SSOP	2.60	2.08	1.56
BA9743AFV-E2TR-ND	2-Channel Switching Regulator Controller	16-SSOP	3327.50/2,500		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BA9744FV-E2CT-ND	2-Channel Switching Regulator Controller	16-SSOP	2.03	1.62	1.22
BA9744FV-E2TR-ND	2-Channel Switching Regulator Controller	16-SSOP	4287.50/2,500		
BA10324AFV-E2CT-ND	32V, Quad Ground Sense Op Amp ***NEW!***	SSOP-B14	.61	.46	.35
BA10324AFV-E2TR-ND	32V, Quad Ground Sense Op Amp ***NEW!***	SSOP-B14	497.50/2,500		
BA10339FV-E2CT-ND	18V, Quad Ground Sense Voltage Comparator ***NEW!***	SSOP-B14	.64	.52	.39
BA10339FV-E2TR-ND	18V, Quad Ground Sense Voltage Comparator ***NEW!***	SSOP-B14	432.502,500		
BA10358F-E2CT-ND	32V, Dual Ground Sense Op Amp	8-SOP	.53	.43	.32
BA10358F-E2TR-ND	32V, Dual Ground Sense Op Amp	8-SOP	357.50/2,500		
BA10358FV-E2CT-ND	32V, Dual Ground Sense Op Amp ***NEW!***	SSOP-B8	.55	.44	.33
BA10358FV-E2TR-ND	32V, Dual Ground Sense Op Amp ***NEW!***	SSOP-B8	372.50/2,500		
BA10393F-E2CT-ND	Dual Comparator	8-SOP	.49	.40	.30
BA10393F-E2TR-ND	Dual Comparator	8-SOP	335.00/2,500		
BA14741F-E2CT-ND	18V, Quad Low Noise Op Amp ***NEW!***	14-SOP	1.17	.98	.78
BA14741F-E2TR-ND	18V, Quad Low Noise Op Amp ***NEW!***	14-SOP	1267.50/2,500		
BA15218F-E2CT-ND	16V, Dual Low Noise Op Amp ***NEW!***	8-SOP	.72	.54	.41
BA15218F-E2TR-ND	16V, Dual Low Noise Op Amp ***NEW!***	8-SOP	582.50/2,500		
BA15532F-E2CT-ND	20V, Dual Low Noise Op Amp ***NEW!***	8-SOP	1.26	1.01	.76
BA15532F-E2TR-ND	20V, Dual Low Noise Op Amp ***NEW!***	8-SOP	1615.00/2,500		
BA17805T-ND	5V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17806T-ND	6V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17807T-ND	7V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17808T-ND	8V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17809T-ND	9V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17810T-ND	10V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17812T-ND	12V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17815T-ND	15V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17818T-ND	18V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17820T-ND	20V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BA17824T-ND	24V, 1A Positive Output Voltage Regulator	TO-220FP	1.34	1.01	.76
BAJ0BC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.47	1.23	.98
BAJ0BC0WT-ND	10V, 1A Low Dropout Voltage Reg. with Shutdown	TO-220FP-5	1.76	1.47	1.18
BAJ0CC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.82	1.52	1.22
BAJ0CC0WT-F-ND	10V, 1A Low Dropout Voltage Reg. with Shutdown	TO-220FP-5	1.44	1.20	.96
BAJ2CC0T-ND	12V, 1A Low Dropout Voltage Regulator	TO-220FP	1.82	1.52	1.22
BAJ2CC0WT-ND	12V, 1A Low Dropout Voltage Reg. with Shutdown	TO-220FP-5	1.88	1.57	1.26
BAJ5CC0T-ND	15V, 1A Low Dropout Voltage Regulator	TO-220FP	1.82	1.52	1.22
BD00KA5WF-E2CT-ND	500mA, Low Dropout Regulator with Shutdown	8-SOP	.96	.72	.54
BD00KA5WF-E2TR-ND	500mA, Low Dropout Regulator with Shutdown	8-SOP	950.00/2,500		
BD00KA5WFP-E2CT-ND	Adj., 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD00KA5WFP-E2TR-ND	Adj., 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD10KA5WF-E2CT-ND	1.0V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD10KA5WF-E2TR-ND	1.0V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD10KA5WFP-E2CT-ND	1.0V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD10KA5WFP-E2TR-ND	1.0V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD12KA5WF-E2CT-ND	1.2V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD12KA5WF-E2TR-ND	1.2V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD12KA5WFP-E2CT-ND	1.2V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD12KA5WFP-E2TR-ND	1.2V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD15KA5WF-E2CT-ND	1.5V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD15KA5WF-E2TR-ND	1.5V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD15KA5WFP-E2CT-ND	1.5V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD15KA5WFP-E2TR-ND	1.5V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD18KA5WF-E2CT-ND	1.8V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD18KA5WF-E2TR-ND	1.8V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD18KA5WFP-E2CT-ND	1.8V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD18KA5WFP-E2TR-ND	1.8V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD25KA5WF-E2CT-ND	2.5V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD25KA5WF-E2TR-ND	2.5V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD25KA5WFP-E2CT-ND	2.5V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD25KA5WFP-E2TR-ND	2.5V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD30KA5WF-E2CT-ND	3.0V, 500mA, LDO Reg. with Shutdown	8-SOP	.88	.73	.59
BD30KA5WF-E2TR-ND	3.0V, 500mA, LDO Reg. with Shutdown	8-SOP	950.00/2,500		
BD30KA5WFP-E2CT-ND	3.0V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD30KA5WFP-E2TR-ND	3.0V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD33KA5WF-E2CT-ND	3.3V, 500mA Low Dropout Regulator with Shutdown	8-SOP	1.17	.88	.66
BD33KA5WF-E2TR-ND	3.3V, 500mA Low Dropout Regulator with Shutdown	8-SOP	950.00/2,500		
BD33KA5WFP-E2CT-ND	3.3V, 500mA, LDO Reg. with Shutdown	TO-252-5	.83	.70	.56
BD33KA5WFP-E2TR-ND	3.3V, 500mA, LDO Reg. with Shutdown	TO-252-5	736.00/2,000		
BD1601MUV-E2CT-ND	4-Channel White Backlight LED Driver ***NEW!***	16-VQFN	2.07	1.66	1.25
BD1601MUV-E2TR-ND	4-Channel White Backlight LED Driver ***NEW!***	16-VQFN	3180.00/3,000		
BD1603NUV-E2CT-ND	4-Channel White Backlight LED Driver ***NEW!***	10-VSON	2.20	1.76	1.32
BD1603NUV-E2TR-ND	4-Channel White Backlight LED Driver ***NEW!***	10-VSON	3378.00/3,000		
BD1604MUV-E2CT-ND	4-Channel White Backlight LED Driver ***NEW!***	16-VQFN	1.68	1.35	1.01
BD1604MUV-E2TR-ND	4-Channel White Backlight LED Driver ***NEW!***	16-VQFN	2583.00/3,000		
BD1604MVV-E2CT-ND	4-Channel White Backlight LED Driver ***NEW!***	16-SQFN	1.63	1.30	.98
BD1604MVV-E2TR-ND	4-Channel White Backlight LED Driver ***NEW!***	16-SQFN	2080.00/2,500		
BD1606MVV-E2CT-ND	6-Channel White Backlight LED Driver ***NEW!***	16-VQFN	3.49	2.79	2.17
BD1606MVV-E2TR-ND	6-Channel White Backlight LED Driver ***NEW!***	16-VQFN	4882.50/2,500		
BD1754HFN-CT-ND	4-Channel White Backlight LED Driver ***NEW!***	8-HSON	1.15	.96	.77
BD1754HFN-TR-ND	4-Channel White Backlight LED Driver ***NEW!***	8-HSON	1497.00/3,000		
BD2041AFJ-E2CT-ND	1-Channel High Side Switch	J8-SOP	1.77	1.48	1.19
BD2041AFJ-E2TR-ND	1-Channel High Side Switch	J8-SOP	1920.00/2,500		
BD2042AFJ-E2CT-ND	2-Channel High Side Switch	J8-SOP	2.50	2.00	1.50
BD2042AFJ-E2TR-ND	2-Channel High Side Switch	J8-SOP	3200.00/2,500		
BD2045AFJ-E2CT-ND	1-Channel High Side Switch	J8-SOP	1.77	1.48	1.19
BD2045AFJ-E2TR-ND	1-Channel High Side Switch	J8-SOP	1920.00/2,500		
BD2046AFJ-E2CT-ND	2-Channel High Side Switch	J8-SOP	2.50	2.00	1.50
BD2046AFJ-E2TR-ND	2-Channel High Side Switch	J8-SOP	3200.00/2,500		
BD2051AFJ-E2CT-ND	1-Channel High Side Switch	J8-SOP	1.77	1.48	1.19
BD2051AFJ-E2TR-ND	1-Channel High Side Switch	J8-SOP	1920.00/2,500		
BD2052AFJ-E2CT-ND	2-Channel High Side Switch	J8-SOP	2.50	2.00	1.50
BD2052AFJ-E2TR-ND	2-Channel High Side Switch	J8-SOP	3200.00/2,500		
BD2055AFJ-E2CT-ND	1-Channel High Side Switch	J8-SOP	1.77	1.48	1.19
BD2055AFJ-E2TR-ND	1-Channel High Side Switch	J8-SOP	1920.00/2,500		
BD2056AFJ-E2CT-ND	2-Channel High Side Switch	J8-SOP	2.42	1.94	1.46
BD2056AFJ-E2TR-ND	2-Channel High Side Switch	J8-SOP	3097.50/2,500		
BD2061AFJ-E2CT-ND	1-Channel USB High Side Switch	J8-SOP	1.77	1.48	1.19
BD2061AFJ-E2TR-ND	1-Channel USB High Side Switch	J8-SOP	1920.00/2,500		
BD2065AFJ-E2CT-ND	1-Channel USB High Side Switch	J8-SOP	1.77	1.48	1.19
BD2065AFJ-E2TR-ND	1-Channel USB High Side Switch	J8-SOP	1920.00/2,500		
BD2802GU-E2CT-ND	RGB LED Driver ***NEW!***	24-VCSP	3.67	2.94	2.29
BD2802GU-E2TR-ND	RGB LED Driver ***NEW!***	24-VCSP	6162.00/3,000		
BD4823FVE-CT-ND	2.3V, Voltage Detector	5-VSOF	.50	.38	.29
BD4823FVE-TR-ND	2.3V, Voltage Detector	5-VSOF	492.00/3,000		
BD4832FVE-CT-ND	3.2V, Voltage Detector	5-VSOF	.50	.38	.29

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BD4842FVE-CT-ND	4.2V, Voltage Detector	5-VSOF	.50	.38	.29
BD4842FVE-TR-ND	4.2V, Voltage Detector	5-VSOF	492.00/3,000		
BD4923FVE-CT-ND	2.3V, Voltage Detector	5-VSOF	.52	.39	.30
BD4928G-CT-ND	2.8V, Voltage Detector	5-SSOP	.55	.42	.32
BD4928G-TR-ND	2.8V, Voltage Detector	5-SSOP	537.00/3,000		
BD4937FVE-CT-ND	3.7V, Voltage Detector	5-VSOF	.50	.38	.29
BD4937FVE-TR-ND	3.7V, Voltage Detector	5-VSOF	492.00/3,000		
BD4942G-CT-ND	4.2V, Voltage Detector	5-SSOP	.52	.39	.30
BD5223G-CT-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	.55	.42	.32
BD5223G-TR-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	537.00/3,000		
BD5232G-CT-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.55	.42	.32
BD5232G-TR-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	537.00/3,000		
BD5242G-CT-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5242G-TR-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5323G-CT-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5323G-TR-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	537.00/3,000		
BD5332G-CT-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5332G-TR-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	537.00/3,000		
BD5342G-CT-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.55	.42	.32
BD5342G-TR-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	537.00/3,000		
BD5413EFV-E2CT-ND	Class D Speaker Amps	24-HTSSOP	2.59	2.07	1.61
BD5413EFV-E2TR-ND	Class D Speaker Amps	24-HTSSOP	2932.00/2,000		
BD5423EFS-E2CT-ND	Class D Speaker Amps	44-HTSSOP	7.13	5.71	4.44
BD5423EFS-E2TR-ND	Class D Speaker Amps	44-HTSSOP	6063.00/1,500		
BD5423MUV-E2CT-ND	Class D Speaker Amps	44-VQFN	6.98	5.58	4.34
BD5423MUV-E2TR-ND	Class D Speaker Amps	44-VQFN	5929.50/1,500		
BD5426EFS-E2CT-ND	Class D Speaker Amps	44-HTSSOP	5.47	4.38	3.41
BD5426EFS-E2TR-ND	Class D Speaker Amps	44-HTSSOP	4647.00/1,500		
BD5426MUV-E2CT-ND	Class D Speaker Amps	48-VQFN	5.38	4.31	3.35
BD5426MUV-E2TR-ND	Class D Speaker Amps	48-VQFN	4570.50/1,500		
BD5431EFS-E2CT-ND	Class D Speaker Amps	44-HTSSOP	9.16	7.33	6.19
BD5431EFS-E2TR-ND	Class D Speaker Amps	44-HTSSOP	8587.50/1,500		
BD5460GUL-E2CT-ND	Class D Speaker Amps	9-WLCSP	1.74	1.46	1.17
BD5460GUL-E2TR-ND	Class D Speaker Amps	9-WLCSP	2265.00/3,000		
BD5461GUL-E2CT-ND	Class D Speaker Amps	9-WLCSP	1.74	1.46	1.17
BD5461GUL-E2TR-ND	Class D Speaker Amps	9-WLCSP	2265.00/3,000		
BD6040GUL-E2CT-ND	Protection Controller with Internal FET	VCSP50L1	2.11	1.76	1.41
BD6040GUL-E2TR-ND	Protection Controller with Internal FET	VCSP50L1	2745.00/3,000		
BD6041GUL-E2CT-ND	Protection Controller with Internal FET	VCSP50L1	2.11	1.76	1.41
BD6041GUL-E2TR-ND	Protection Controller with Internal FET	VCSP50L1	2745.00/3,000		
BD6066EKN-E2CT-ND	White Backlight LED Driver, 48 LED Max. ***NEW!***	28-HVQFN	5.28	4.23	3.57
BD6066EKN-E2TR-ND	White Backlight LED Driver, 48 LED Max. ***NEW!***	28-HVQFN	8185.00/2,500		
BD6066GU-E2CT-ND	White Backlight LED Driver, 48 LED Max. ***NEW!***	17-VCSP	5.38	4.31	3.35
BD6066GU-E2TR-ND	White Backlight LED Driver, 48 LED Max. ***NEW!***	17-VCSP	9033.00/3,000		
BD6067GU-E2CT-ND	White Backlight LED Driver, 8 LED Max. ***NEW!***	8-VCSP	2.25	1.80	1.35
BD6067GU-E2TR-ND	White Backlight LED Driver, 8 LED Max. ***NEW!***	8-VCSP	3447.00/3,000		
BD6069GUT-E2CT-ND	White Backlight LED Driver, 4 LED Max. ***NEW!***	8-VCSP	2.30	1.84	1.38
BD6069GUT-E2TR-ND	White Backlight LED Driver, 4 LED Max. ***NEW!***	8-VCSP	3525.00/3,000		
BD6071HFN-CT-ND	White Backlight LED Driver, 3 LED Max. ***NEW!***	8-HSON	1.55	1.25	.94
BD6071HFN-TR-ND	White Backlight LED Driver, 3 LED Max. ***NEW!***	8-HSON	2385.00/3,000		
BD6072HFN-CT-ND	White Backlight LED Driver, 4 LED Max. ***NEW!***	8-HSON	1.55	1.25	.94
BD6072HFN-TR-ND	White Backlight LED Driver, 4 LED Max. ***NEW!***	8-HSON	2385.00/3,000		
BD6210F-E2CT-ND	1-Channel, 7V, .5A H-Bridge Driver for Brush Motor	8-SOP	2.29	1.84	1.38
BD6210F-E2TR-ND	1-Channel, 7V, .5A H-Bridge Driver for Brush Motor	8-SOP	2930.00/2,500		
BD6210HFP-CT-ND	1-Channel, 7V, .5A H-Bridge Driver for Brush Motor	HRP7	1.88	1.50	1.13
BD6210HFP-TR-ND	1-Channel, 7V, .5A H-Bridge Driver for Brush Motor	HRP7	1950.00/2,000		
BD6211F-E2CT-ND	1-Channel, 7V, 1A H-Bridge Driver for Brush Motor	8-SOP	2.31	1.85	1.39
BD6211F-E2TR-ND	1-Channel, 7V, 1A H-Bridge Driver for Brush Motor	8-SOP	2960.00/2,500		
BD6211HFP-CT-ND	1-Channel, 7V, 1A H-Bridge Driver for Brush Motor	HRP7	2.90	2.32	1.74
BD6211HFP-TR-ND	1-Channel, 7V, 1A H-Bridge Driver for Brush Motor	HRP7	3016.00/2,000		
BD6212FP-E2CT-ND	1-Channel, 7V, 2A H-Bridge Driver for Brush Motor	25-HSOP	2.33	1.86	1.40
BD6212FP-E2TR-ND	1-Channel, 7V, 2A H-Bridge Driver for Brush Motor	25-HSOP	3484.00/2,000		
BD6212HFP-CT-ND	1-Channel, 7V, 2A H-Bridge Driver for Brush Motor	HRP7	3.43	2.74	2.06
BD6212HFP-TR-ND	1-Channel, 7V, 2A H-Bridge Driver for Brush Motor	HRP7	3562.00/2,000		
BD6220F-E2CT-ND	1-Channel, 18V, .5A H-Bridge Driver for Brush Motor	8-SOP	1.93	1.54	1.16
BD6220F-E2TR-ND	1-Channel, 18V, .5A H-Bridge Driver for Brush Motor	8-SOP	3615.00/2,500		
BD6220HFP-CT-ND	1-Channel, 18V, .5A H-Bridge Driver for Brush Motor	HRP7	3.93	3.14	2.36
BD6220HFP-TR-ND	1-Channel, 18V, .5A H-Bridge Driver for Brush Motor	HRP7	4082.00/2,000		
BD6221F-E2CT-ND	1-Channel, 18V, 1A H-Bridge Driver for Brush Motor	8-SOP	2.85	2.28	1.71
BD6221F-E2TR-ND	1-Channel, 18V, 1A H-Bridge Driver for Brush Motor	8-SOP	3647.50/2,500		
BD6221HFP-CT-ND	1-Channel, 18V, 1A H-Bridge Driver for Brush Motor	HRP7	3.58	2.86	2.15
BD6221HFP-TR-ND	1-Channel, 18V, 1A H-Bridge Driver for Brush Motor	HRP7	3718.00/2,000		
BD6222FP-E2CT-ND	1-Channel, 18V, 2A H-Bridge Driver for Brush Motor	25-HSOP	2.38	1.90	1.43
BD6222FP-E2TR-ND	1-Channel, 18V, 2A H-Bridge Driver for Brush Motor	25-HSOP	4576.00/2,000		
BD6222HFP-CT-ND	1-Channel, 18V, 2A H-Bridge Driver for Brush Motor	HRP7	4.12	3.30	2.57
BD6222HFP-TR-ND	1-Channel, 18V, 2A H-Bridge Driver for Brush Motor	HRP7	4666.00/2,000		
BD6225FP-E2CT-ND	2-Channel, 18V, .5A H-Bridge Driver for Brush Motor	25-HSOP	4.93	3.95	3.07
BD6225FP-E2TR-ND	2-Channel, 18V, .5A H-Bridge Driver for Brush Motor	25-HSOP	5584.00/2,000		
BD6226FP-E2CT-ND	2-Channel, 18V, 1A H-Bridge Driver for Brush Motor	25-HSOP	5.38	4.31	3.35
BD6226FP-E2TR-ND	2-Channel, 18V, 1A H-Bridge Driver for Brush Motor	25-HSOP	6094.00/2,000		
BD6230F-E2CT-ND	1-Channel, 36V, .5A H-Bridge Driver for Brush Motor	8-SOP	3.49	2.79	2.17
BD6230F-E2TR-ND	1-Channel, 36V, .5A H-Bridge Driver for Brush Motor	8-SOP	4882.50/2,500		
BD6230HFP-CT-ND	1-Channel, 36V, .5A H-Bridge Driver for Brush Motor	HRP7	2.93	2.34	1.82
BD6230HFP-TR-ND	1-Channel, 36V, .5A H-Bridge Driver for Brush Motor	HRP7	3316.00/2,000		
BD6231F-E2CT-ND	1-Channel, 36V, 1A H-Bridge Driver for Brush Motor	8-SOP	3.95	3.16	2.37
BD6231F-E2TR-ND	1-Channel, 36V, 1A H-Bridge Driver for Brush Motor	8-SOP	5055.00/2,500		
BD6231HFP-CT-ND	1-Channel, 36V, 1A H-Bridge Driver for Brush Motor	HRP7	4.52	3.62	2.82
BD6231HFP-TR-ND	1-Channel, 36V, 1A H-Bridge Driver for Brush Motor	HRP7	5126.00/2,000		
BD6232FP-E2CT-ND	1-Channel, 36V, 2A H-Bridge Driver for Brush Motor	25-HSOP	3.15	2.52	1.96
BD6232FP-E2TR-ND	1-Channel, 36V, 2A H-Bridge Driver for Brush Motor	25-HSOP	6324.00/2,000		
BD6232HFP-CT-ND	1-Channel, 36V, 2A H-Bridge Driver for Brush Motor	HRP7	5.83	4.67	3.63
BD6232HFP-TR-ND	1-Channel, 36V, 2A H-Bridge Driver for Brush Motor	HRP7	6604.00/2,000		
BD6512F-E2CT-ND	2-Channel High Side Switch	8-SOP	1.44	1.20	.96
BD6513F-E2CT-ND	2-Channel High Side Switch	8-SOP	1.45	1.16	.87
BD6516F-E2CT-ND	2-Channel High Side Switch	8-SOP	1.92	1.60	1.28
BD6516F-E2TR-ND	2-Channel High Side Switch	8-SOP	2077.50/2,500		
BD6517F-E2CT-ND	2-Channel High Side Switch	8-SOP	2.07	1.66	1.25
BD6517F-E2TR-ND	2-Channel High Side Switch	8-SOP	2650.00/2,500		
BD6519FJ-E2CT-ND	1-Channel High Side Switch	J8-SOP	2.27	1.90	1.52
BD6519FJ-E2TR-ND	1-Channel High Side Switch	J8-SOP	2460.00/2,500		
BD6583MUV-AE2CT-ND	White Backlight LED Driver, 72 LED Max. ***NEW!***	24-VQFN	4.58	3.67	3.10
BD6583MUV-AE2TR-ND	White Backlight LED Driver, 72 LED Max. ***NEW!***	24-VQFN	7100.00/2,500		
BD6586MUV-E2CT-ND	White Backlight LED Driver, 24 LED Max. ***NEW!***	24-VQFN	6.12	4.90	4.14

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(Continued)

ROHM SEMICONDUCTOR Digi-Reel® (Cont.) INTEGRATED CIRCUITS

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BD6586MUV-E2TR-ND	White Backlight LED Driver, 24 LED Max. ***NEW!***	24-VQFN	9485.00/2,500		
BD6592MUV-E2CT-ND	White Backlight LED Driver, 72 LED Max. ***NEW!***	24-VQFN	5.52	4.42	3.73
BD6592MUV-E2TR-ND	White Backlight LED Driver, 72 LED Max. ***NEW!***	24-VQFN	8555.00/2,500		
BD6775EFV-E2CT-ND	Bipolar Stepping Motor Driver	B24-HTSSOP	2.30	1.84	1.38
BD6775EFV-E2TR-ND	Bipolar Stepping Motor Driver	B24-HTSSOP	2386.00/2,000		
BD7411G-CT-ND	5.5V Omnipolar Detection Hall IC ***NEW!***	5-SSOP	1.45	1.21	.97
BD7411G-TR-ND	5.5V Omnipolar Detection Hall IC ***NEW!***	5-SSOP	1884.00/3,000		
BD7541G-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1.11	.93	.74
BD7541G-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1443.00/3,000		
BD7541SG-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1.17	.98	.78
BD7541SG-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1521.00/3,000		
BD7542F-E2CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1.17	.98	.78
BD7542F-E2TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1267.50/2,500		
BD7542FVM-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1.17	.98	.78
BD7542FVM-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1521.00/3,000		
BD7542SF-E2CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1.29	1.08	.86
BD7542SF-E2TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1397.50/2,500		
BD7542SFVM-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1.29	1.08	.86
BD7542SFVM-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1677.00/3,000		
BD7561G-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1.11	.93	.74
BD7561G-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1443.00/3,000		
BD7561SG-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1.17	.98	.78
BD7561SG-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	5-SSOP	1521.00/3,000		
BD7562F-E2CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1.17	.98	.78
BD7562F-E2TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1267.50/2,500		
BD7562FVM-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1.17	.98	.78
BD7562FVM-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1521.00/3,000		
BD7562SF-E2CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1.29	1.08	.86
BD7562SF-E2TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-SOP	1397.50/2,500		
BD7562SFVM-CT-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1.29	1.08	.86
BD7562SFVM-TR-ND	In/Out Full Swing High Voltage CMOS Op Amp	8-MSOP	1677.00/3,000		
BD7851FP-E2CT-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2.14	1.71	1.29
BD7851FP-E2TR-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2224.00/2,000		
BD8152FVM-CT-ND	High Efficiency Step-Up Switching Regulator	8-MSOP	3.23	2.58	1.94
BD8152FVM-TR-ND	High Efficiency Step-Up Switching Regulator	8-MSOP	4953.00/3,000		
BD8158FVM-CT-ND	High Efficiency Step-Up Switching Regulator	8-MSOP	2.59	2.16	1.73
BD8158FVM-TR-ND	High Efficiency Step-Up Switching Regulator	8-MSOP	3366.00/3,000		
BD8301MUV-E2CT-ND	High Eff. Buck/Boost Switching Regulator ***NEW!***	20-VQFN	3.94	3.15	2.45
BD8301MUV-E2TR-ND	High Eff. Buck/Boost Switching Regulator ***NEW!***	20-VQFN	5512.50/2,500		
BD8303MUV-E2CT-ND	High Efficiency Buck/Boost DC/DC Converter	16-VQFN	2.43	1.94	1.46
BD8303MUV-E2TR-ND	High Efficiency Buck/Boost DC/DC Converter	16-VQFN	3726.00/3,000		
BD8305MUV-E2CT-ND	High Eff. Buck/Boost Switching Regulator ***NEW!***	20-VQFN	3.94	3.15	2.45
BD8305MUV-E2TR-ND	High Eff. Buck/Boost Switching Regulator ***NEW!***	20-VQFN	5512.50/2,500		
BD8312HFN-CT-ND	High Eff. Step-Down Switching Regulator ***NEW!***	8-HSON	2.29	1.84	1.38
BD8312HFN-TR-ND	High Eff. Step-Down Switching Regulator ***NEW!***	8-HSON	3516.00/3,000		
BD8313HFN-CT-ND	High Eff. Step-Down Switching Regulator ***NEW!***	8-HSON	2.04	1.64	1.23
BD8313HFN-TR-ND	High Eff. Step-Down Switching Regulator ***NEW!***	8-HSON	3132.00/3,000		
BD8820MUV-E2CT-ND	Stereo Headphone Amp	16-VQFN	1.63	1.30	.98
BD8820MUV-E2TR-ND	Stereo Headphone Amp	16-VQFN	2496.00/3,000		
BD8960NV-E2CT-ND	Low Noise, Step-Down Switching Regulator	8-SON	4.59	3.68	2.86
BD8960NV-E2TR-ND	Low Noise, Step-Down Switching Regulator	8-SON	5202.00/2,000		
BD9001F-E2CT-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	4.15	3.32	2.49
BD9001F-E2TR-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	5312.50/2,500		
BD9006F-E2CT-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	3.42	2.74	2.13
BD9006F-E2TR-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	4787.50/2,500		
BD9006HFP-CT-ND	2A, Flexible Step-Down Switching Regulator	HRP7	3.53	2.83	2.20
BD9006HFP-TR-ND	2A, Flexible Step-Down Switching Regulator	HRP7	4004.00/2,000		
BD9007F-E2CT-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	4.97	3.98	3.10
BD9007F-E2TR-ND	2A, Flexible Step-Down Switching Regulator	8-SOP	6962.50/2,500		
BD9007HFP-CT-ND	2A, Flexible Step-Down Switching Regulator	HRP7	4.34	3.48	2.71
BD9007HFP-TR-ND	2A, Flexible Step-Down Switching Regulator	HRP7	4922.00/2,000		
BD9011EKN-E2CT-ND	Dual, High Voltage Step-Down Switching Regulator	36-HQFN	4.50	3.60	2.80
BD9011EKN-E2TR-ND	Dual, High Voltage Step-Down Switching Regulator	36-HQFN	6300.00/2,500		
BD9011KV-E2CT-ND	Dual, High Voltage Step-Down Switching Regulator	48-VQFP	4.50	3.60	2.80
BD9011KV-E2TR-ND	Dual, High Voltage Step-Down Switching Regulator	48-VQFP	3825.00/1,500		
BD9012KV-E2CT-ND	Dual, High Voltage Step-Down Switching Regulator	48-VQFP	4.34	3.48	2.71
BD9012KV-E2TR-ND	Dual, High Voltage Step-Down Switching Regulator	48-VQFP	3691.50/1,500		
BD9013KV-E2CT-ND	Dual Synchronous DC/DC Converter	48-VQFP	4.50	3.60	2.80
BD9013KV-E2TR-ND	Dual Synchronous DC/DC Converter	48-VQFP	3825.00/1,500		
BD9040FV-E2CT-ND	1-Ch. Step-Down High Efficiency Switching Reg.	20-SSOP	3.03	2.42	1.82
BD9040FV-E2TR-ND	1-Ch. Step-Down High Efficiency Switching Reg.	20-SSOP	3872.50/2,500		
BD9045FV-E2CT-ND	2-Ch. Step-Down High Efficiency Switching Reg.	28-SSOP	4.66	3.73	2.90
BD9045FV-E2TR-ND	2-Ch. Step-Down High Efficiency Switching Reg.	28-SSOP	5278.00/2,000		
BD9102FVM-CT-ND	0.8A, Adj., Step-Down Switching Regulator	8-MSOP	2.25	1.80	1.35
BD9102FVM-TR-ND	0.8A, Adj., Step-Down Switching Regulator	8-MSOP	3447.00/3,000		
BD9104FVM-CT-ND	0.9A, Adj., Step-Down Switching Regulator	8-MSOP	2.25	1.80	1.35
BD9104FVM-TR-ND	0.9A, Adj., Step-Down Switching Regulator	8-MSOP	3447.00/3,000		
BD9106FVM-CT-ND	0.8A, Adj., Step-Down Switching Regulator	8-MSOP	2.25	1.80	1.35
BD9106FVM-TR-ND	0.8A, Adj., Step-Down Switching Regulator	8-MSOP	3447.00/3,000		
BD9107FVM-CT-ND	1.2A, Adj., Step-Down Switching Regulator	8-MSOP	2.33	1.87	1.40
BD9107FVM-TR-ND	1.2A, Adj., Step-Down Switching Regulator	8-MSOP	3579.00/3,000		
BD9109FVM-CT-ND	0.8A, 3.3V, Step-Down Switching Regulator	8-MSOP	2.69	2.25	1.80
BD9109FVM-TR-ND	0.8A, 3.3V, Step-Down Switching Regulator	8-MSOP	3501.00/3,000		
BD9110NV-E2CT-ND	Step-Down High Efficiency Switching Reg.	8-SON	2.93	2.34	1.76
BD9110NV-E2TR-ND	Step-Down High Efficiency Switching Reg.	8-SON	3042.00/2,000		
BD9111NV-E2CT-ND	2A, High Efficiency Step-Down Switching Reg.	8-SON	2.90	2.32	1.74
BD9111NV-E2TR-ND	2A, High Efficiency Step-Down Switching Reg.	8-SON	3016.00/2,000		
BD9120HFN-CT-ND	0.8A, Adj., Step-Down Switching Regulator	8-HSON	2.80	2.33	1.87
BD9120HFN-TR-ND	0.8A, Adj., Step-Down Switching Regulator	8-HSON	3636.00/3,000		
BD9122GUL-E2CT-ND	0.3A, High Eff. Step-Down Switching Reg.	8-WLCSP	2.80	2.33	1.87
BD9122GUL-E2TR-ND	0.3A, High Eff. Step-Down Switching Reg.	8-WLCSP	3636.00/3,000		
BD9130EFJ-E2CT-ND	2A Step-Down Switching Regulator	8-HTSOP	2.07	1.66	1.25
BD9130EFJ-E2TR-ND	2A Step-Down Switching Regulator	8-HTSOP	2650.00/2,500		
BD9130NV-E2CT-ND	2A Step-Down Switching Regulator	8-SON	2.93	2.34	1.76
BD9130NV-E2TR-ND	2A Step-Down Switching Regulator	8-SON	3042.00/2,000		
BD9132MUV-E2CT-ND	High Efficiency Step-Down Switching Reg.	20-VQFN	3.15	2.52	1.89
BD9132MUV-E2TR-ND	High Efficiency Step-Down Switching Reg.	20-VQFN	4032.50/2,500		
BD9134MUV-E2CT-ND	3A, High Efficiency Step-Down Switching Reg.	20-VQFN	2.65	2.12	1.59
BD9134MUV-E2TR-ND	3A, High Efficiency Step-Down Switching Reg.	20-VQFN	3392.50/2,500		
BD9141MUV-E2CT-ND	2A, High Efficiency Step-Down Switching Reg.	20-VFQN	3.08	2.46	1.85
BD9141MUV-E2TR-ND	2A, High Efficiency Step-Down Switching Reg.	20-VFQN	3935.00/2,500		
BD9150MUV-E2CT-ND	1.5A, High Efficiency Step-Down Switching Reg.	20-VQFN	3.24	2.60	2.02
BD9150MUV-E2TR-ND	1.5A, High Efficiency Step-Down Switching Reg.	20-VQFN	4535.00/2,500		
BD9152MUV-E2CT-ND	1.5A, High Efficiency Step-Down Switching Reg.	20-VQFN	3.49	2.79	2.17
BD9152MUV-E2TR-ND	1.5A, High Efficiency Step-Down Switching Reg.	20-VQFN	4882.50/2,500		
BD9161FVM-CT-ND	0.6A, High Efficiency Step-Down Switching Reg.	8-MSOP	2.42	2.02	1.62
BD9161FVM-TR-ND	0.6A, High Efficiency Step-Down Switching Reg.	8-MSOP	3147.00/3,000		
BD9300F-E2CT-ND	1-Ch. Step-Up, Negative Voltage, Step-Down Switching Regulator	14-SOP	2.33	1.87	1.40
BD9300F-E2TR-ND	1-Ch. Step-Up, Negative Voltage, Step-Down Switching Regulator	14-SOP	2982.50/2,500		
BD9300FV-E2CT-ND	1-Ch. Step-Up, Negative Voltage, Step-Down Switching Regulator	14-SSOP	1.17	.98	.78
BD9300FV-E2TR-ND	1-Ch. Step-Up, Negative Voltage, Step-Down Switching Regulator	14-SSOP	2917.50/2,500		
BD9302FP-E2CT-ND	2-Channel Step-Down Switching Regulator	25-HSOP	4.05	3.24	2.52
BD9302FP-E2TR-ND	2-Channel Step-Down Switching Regulator	25-HSOP	6656.00/2,000		
BD9305AFVM-CT-ND	Single Down High Efficiency Switching Regulator	8-MSOP	2.27	1.90	1.52
BD9305AFVM-TR-ND	Single Down High Efficiency Switching Regulator	8-MSOP	2952.00/3,000		
BD9306AFVM-CT-ND	Single Out Step-Up High Efficiency Switching Reg.	8-MSOP	2.27	1.90	1.52
BD9306AFVM-TR-ND	Single Out Step-Up High Efficiency Switching Reg.	8-MSOP	2952.00/3,000		
BD9322EFJCT-ND	2A Step-Down Switching Regulator	J8-HTSOP	1.63	1.30	.98
BD9322EFJTR-ND	2A Step-Down Switching Regulator	J8-HTSOP	2080.00/2,500		
BD9323EFJ-E2CT-ND	3A Step-Down Switching Regulator	J8-HTSOP	2.42	1.94	1.46
BD9323EFJ-E2TR-ND	3A Step-Down Switching Regulator	J8-HTSOP	3097.50/2,500		
BD9533EKN-E2CT-ND	Step-Down DC/DC Converter	20-HQFN	3.45	2.76	2.07
BD9533EKN-E2TR-ND	Step-Down DC/DC Converter	20-HQFN	4415.00/2,500		
BD9535MUV-E2CT-ND	2-Channel Step-Down DC/DC Converter	32-VQFN	5.22	4.18	3.25
BD9535MUV-E2TR-ND	2-Channel Step-Down DC/DC Converter	32-VQFN	7307.50/2,500		
BD9701CP-V5E2CT-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220-5	2.95	2.36	1.77
BD9701CP-V5E2TR-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220-5	796.50/500		
BD9701FP-E2CT-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-252-5	3.13	2.50	1.88
BD9701FP-E2TR-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-252-5	3250.00/2,000		
BD9701T-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220FP-5	3.23	2.58	1.94
BD9702CP-V5E2CT-ND	3A, 1-Channel Step-Down Switching Regulator	TO-220-5	3.17	2.54	1.98
BD9702CP-V5E2TR-ND	3A, 1-Channel Step-Down Switching Regulator	TO-220-5	916.50/500		
BD9702T-ND	3A, 1-Channel Step-Down Switching Regulator	TO-220FP-5	3.65	2.92	2.27
BD9703CP-V5E2CT-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220-5	3.33	2.66	2.00
BD9703CP-V5E2TR-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220-5	898.00/500		
BD9703FP-E2CT-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-252-5	2.30	1.84	1.38
BD9703FP-E2TR-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-252-5	2386.00/2,000		
BD9763FVM-CT-ND	1-Ch. Step-Up High Efficiency Switching Regulator	8-MSOP	2.50	2.00	1.50
BD9763FVM-TR-ND	1-Ch. Step-Up High Efficiency Switching Regulator	8-MSOP	3840.00/3,000		
BD9775FV-E2CT-ND	2-Ch. High Voltage, High Efficiency Step-Down Switching Regulator	28-SSOP	7.38	5.91	4.60
BD9775FV-E2TR-ND	2-Ch. High Voltage, High Efficiency Step-Down Switching Regulator	28-SSOP	8364.00/2,000		
BD9778F-E2CT-ND	Flexible Step-Down Switching Regulator	8-SOP	3.74	2.99	2.33
BD9778F-E2TR-ND	Flexible Step-Down Switching Regulator	8-SOP	5230.00/2,500		
BD9778HFP-CT-ND	Flexible Step-Down Switching Regulator	7-HRP	2.70	2.16	1.68
BD9781HFP-CT-ND	Flexible Step-Down Switching Regulator	7-HRP	5.92	4.74	3.69
BD9781HFP-TR-ND	Flexible Step-Down Switching Regulator	7-HRP	6706.00/2,000		
BD9842FV-E2CT-ND	2-Ch. High Voltage, High Frequency Step-Down Switching Regulator	20-SSOP	2.55	2.04	1.53
BD9842FV-E2TR-ND	2-Ch. High Voltage, High Frequency Step-Down Switching Regulator	20-SSOP	3265.00/2,500		
BD9845FV-E2CT-ND	1-Ch. High Voltage, High Frequency Step-Down Switching Regulator	14-SSOP	1.30	1.04	.78
BD9845FV-E2TR-ND	1-Ch. High Voltage, High Frequency Step-Down Switching Regulator	14-SSOP	1665.00/2,500		
BD9850FVM-CT-ND	1-Ch. High Frequency Step-Down Switching Reg.	8-MSOP	2.40	1.92	1.44
BD9850FVM-TR-ND	1-Ch. High Frequency Step-Down Switching Reg.	8-MSOP	3687.00/3,000		
BD9851EFV-E2CT-ND	2-Channel Switching Regulator Controller	B20-HTSSOP	2.79	2.24	1.74
BD9851EFV-E2TR-ND	2-Channel Switching Regulator Controller	B20-HTSSOP	3905.00/2,500		
BD9853AFV-E2CT-ND	2-Ch. High Freq. Sync. Step-Down Switching Reg.	16-SSOP	3.08	2.47	1.92
BD9853AFV-E2TR-ND	2-Ch. High Freq. Sync. Step-Down Switching Reg.	16-SSOP	4315.00/2,500		
BD9870FPS-E2CT-ND	1-Channel, 900kHz, Step-Down Switching Regulator	TO-252S-5	1.50	1.20	.90
BD9870FPS-E2TR-ND	1-Channel, 900kHz, Step-Down Switching Regulator	TO-252S-5	1560.00/2,000		
BD45231G-CT-ND	2.3V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD45231G-TR-ND	2.3V, Voltage Detector IC Built in Delay Circuit	5-SSOP	783.00/3,000		
BD45421G-CT-ND	4.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD45421G-TR-ND	4.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	783.00/3,000		
BD46321G-CT-ND	3.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD46321G-TR-ND	3.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	783.00/3,000		
BD82103GWL-E2CT-ND	White Backlight LED Driver, 2-3 LED Max. ***NEW!***	11-UCSP	1.50	1.25	1.00
BD82103GWL-E2TR-ND	White Backlight LED Driver, 2-3 LED Max. ***NEW!***	11-UCSP	1947.00/3,000		
BD95500MUV-E2CT-ND	Switching DC/DC Regulator for DDR-SDRAM	40-VQFN	4.28	3.42	2.66
BD95500MUV-E2TR-ND	Switching DC/DC Regulator for DDR-SDRAM	40-VQFN	4846.00/2,000		
BD95513MUV-E2CT-ND	1-Channel Step-Down DC/DC Converter	32-VQFN	6.44	5.15	4.01
BD95513MUV-E2TR-ND	1-Channel Step-Down DC/DC Converter	32-VQFN	9010.00/2,500		
BDE0600G-CT-ND	60°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE0600G-TR-ND	60°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		
BDE0700G-CT-ND	70°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE0700G-TR-ND	70°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		
BDE0800G-CT-ND	80°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE0800G-TR-ND	80°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		
BDE0900G-CT-ND	90°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE0900G-TR-ND	90°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		
BDE1100G-CT-ND	110°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE1100G-TR-ND	110°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		

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(Continued)

ROHM SEMICONDUCTOR Digi-Reel® (Cont.) INTEGRATED CIRCUITS

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BDE1204G-CT-ND	120°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1.24	1.04	.83
BDE1204G-TR-ND	120°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1614.00/3,000		
BDE1250G-CT-ND	125°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	.84	.70	.56
BDE1250G-TR-ND	125°C Detect Temp. Changeable Thermostat Output Temp. Sensor	5-SSOP	1092.00/3,000		
BH1JLB1WHFV-CT-ND	1.85V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH1JLB1WHFV-TR-ND	1.85V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH2JNB1WHFV-CT-ND	2.85V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH2JNB1WHFV-TR-ND	2.85V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH12PB1WHFV-CT-ND	1.2V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.64	.48	.36
BH12PB1WHFV-TR-ND	1.2V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	621.00/3,000		
BH15LB1WG-CT-ND	1.5V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH15LB1WG-TR-ND	1.5V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH15LB1WHFV-CT-ND	1.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH15LB1WHFV-TR-ND	1.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH15MA3WHFV-CT-ND	1.5V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.72	.54	.41
BH15MA3WHFV-TR-ND	1.5V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH15PB1WHFV-CT-ND	1.5V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH15PB1WHFV-TR-ND	1.5V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH15RB1WGUT-E2CT-ND	1.5V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH15RB1WGUT-E2TR-ND	1.5V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH18LB1WG-CT-ND	1.8V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.72	.54	.41
BH18LB1WG-TR-ND	1.8V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH18LB1WHFV-CT-ND	1.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH18LB1WHFV-TR-ND	1.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH18MA3WHFV-CT-ND	1.8V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.72	.54	.41
BH18MA3WHFV-TR-ND	1.8V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH18PB1WHFV-CT-ND	1.8V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH18PB1WHFV-TR-ND	1.8V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH18RB1WGUT-E2CT-ND	1.8V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH18RB1WGUT-E2TR-ND	1.8V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH25FB1WG-CT-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH25FB1WG-TR-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH25FB1WHFV-CT-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25FB1WHFV-TR-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH25MA3WHFV-CT-ND	2.5V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH25MA3WHFV-TR-ND	2.5V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH25NB1WHFV-CT-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25NB1WHFV-TR-ND	2.5V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH25PB1WHFV-CT-ND	2.5V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH25PB1WHFV-TR-ND	2.5V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH25RB1WGUT-E2CT-ND	2.5V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH25RB1WGUT-E2TR-ND	2.5V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH28FB1WG-CT-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.76	.57	.43
BH28FB1WG-TR-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	741.00/3,000		
BH28FB1WHFV-CT-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28FB1WHFV-TR-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	741.00/3,000		
BH28MA3WHFV-CT-ND	2.8V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.72	.54	.41
BH28MA3WHFV-TR-ND	2.8V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH28NB1WHFV-CT-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28NB1WHFV-TR-ND	2.8V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH28PB1WHFV-CT-ND	2.8V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH28PB1WHFV-TR-ND	2.8V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH28RB1WGUT-E2CT-ND	2.8V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH28RB1WGUT-E2TR-ND	2.8V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH29FB1WG-CT-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH29FB1WG-TR-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH29FB1WHFV-CT-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29FB1WHFV-TR-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH29MA3WHFV-CT-ND	2.9V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH29MA3WHFV-TR-ND	2.9V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH29NB1WHFV-CT-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29NB1WHFV-TR-ND	2.9V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH29PB1WHFV-CT-ND	2.9V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH29PB1WHFV-TR-ND	2.9V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH29RB1WGUT-E2CT-ND	2.9V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH29RB1WGUT-E2TR-ND	2.9V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH30FB1WG-CT-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH30FB1WG-TR-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH30FB1WHFV-CT-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30FB1WHFV-TR-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH30MA3WHFV-CT-ND	3V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH30MA3WHFV-TR-ND	3V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH30NB1WHFV-CT-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30NB1WHFV-TR-ND	3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH30PB1WHFV-CT-ND	3V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	.64	.48	.36
BH30PB1WHFV-TR-ND	3V, 150mA LDO CMOS Reg. with Shutdown	5-HVSOF	621.00/3,000		
BH30RB1WGUT-E2CT-ND	3V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH30RB1WGUT-E2TR-ND	3V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH31FB1WG-CT-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH31FB1WG-TR-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH31FB1WHFV-CT-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31FB1WHFV-TR-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH31MA3WHFV-CT-ND	3.1V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH31MA3WHFV-TR-ND	3.1V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH31NB1WHFV-CT-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31PB1WHFV-CT-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.64	.48	.36
BH31PB1WHFV-TR-ND	3.1V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	621.00/3,000		
BH31RB1WGUT-E2CT-ND	3.1V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH31RB1WGUT-E2TR-ND	3.1V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH33FB1WG-CT-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	.72	.54	.41
BH33FB1WG-TR-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-SSOP	702.00/3,000		
BH33FB1WHFV-CT-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33MA3WHFV-CT-ND	3.3V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	.72	.54	.41
BH33MA3WHFV-TR-ND	3.3V, 300mA LDO CMOS Regulator with Shutdown	6-HVSOF	702.00/3,000		
BH33NB1WHFV-CT-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33NB1WHFV-TR-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	702.00/3,000		
BH33PB1WHFV-CT-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	.64	.48	.36

ROHM SEMICONDUCTOR Digi-Reel® (Cont.) INTEGRATED CIRCUITS

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BH33PB1WHFV-TR-ND	3.3V, 150mA LDO CMOS Regulator with Shutdown	5-HVSOF	621.00/3,000		
BH33RB1WGUT-E2CT-ND	3.3V, 150mA LDO CMOS Regulator	4-VCSP	1.00	.76	.57
BH33RB1WGUT-E2TR-ND	3.3V, 150mA LDO CMOS Regulator	4-VCSP	978.00/3,000		
BH1406KV-E2CT-ND	FM Radio One-Chip LSI	48-VQFP	4.39	3.51	2.73
BH1406KV-E2TR-ND	FM Radio One-Chip LSI	48-VQFP	6273.00/1,500		
BH1414K-E2CT-ND	FM Stereo Transmitter IC	44-QFP	7.14	5.72	4.82
BH1414K-E2TR-ND	FM Stereo Transmitter IC	44-QFP	4463.00/1,000		
BH1415F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	3.76	3.01	2.34
BH1417F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	10.10	8.09	6.29
BH1417F-E2TR-ND	FM Stereo Transmitter IC	22-SOP	11450.00/2,000		
BH1418FV-E2CT-ND	FM Stereo Transmitter IC	24-SSOP	3.92	3.14	2.44
BH1418FV-E2TR-ND	FM Stereo Transmitter IC	24-SSOP	11884.00/2,000		
BH1418KN-E2CT-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	3.92	3.14	2.44
BH1418KN-E2TR-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	14680.00/2,500		
BH1425GWL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	4.05	3.24	2.52
BH1425GWL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	16852.50/2,500		
BH1425KN-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	3.94	3.15	2.45
BH1425KN-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	16317.50/2,500		
BH1426GWL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	4.95	3.96	3.08
BH1426GWL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	16317.50/2,500		
BH1426KN-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	4.95	3.96	3.08
BH1426KN-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	16317.50/2,500		
BH1427GUL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	VCSP50L3	3.71	2.97	2.31
BH1427GUL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	VCSP50L3	9230.00/2,500		
BH1600FVC-CT-ND	Analog Current Output Ambient Light Sensor	6-WSOF	1.48	1.24	.99
BH1600FVC-TR-ND	Analog Current Output Ambient Light Sensor	6-WSOF	1923.00/3,000		
BH1603FVC-CT-ND	Analog Current Output Ambient Light Sensor	6-WSOF	1.32	1.10	.88
BH1603FVC-TR-ND	Analog Current Output Ambient Light Sensor	6-WSOF	1716.00/3,000		
BH1620FVC-CT-ND	Analog Current Output Ambient Light Sensor	5-WSOF	1.60	1.33	1.04
BH1620FVC-TR-ND	Analog Current Output Ambient Light Sensor	5-WSOF	1785.00/3,000		
BH1710FVC-CT-ND	16-Bit, Digital Serial Output Ambient Light Sensor	6-WSOF	2.77	2.22	1.73
BH1710FVC-TR-ND	16-Bit, Digital Serial Output Ambient Light Sensor	6-WSOF	4650.00/3,000		
BH1715FVC-CT-ND	Digital Serial Output Ambient Light Sensor	6-WSOF	3.50	2.80	2.10
BH1715FVC-TR-ND	Digital Serial Output Ambient Light Sensor	6-WSOF	5376.00/3,000		
BH1721FVC-CT-ND	Digital Serial Output Ambient Light Sensor	5-WSOF	2.39	1.91	1.49
BH1721FVC-TR-ND	Digital Serial Output Ambient Light Sensor	5-WSOF	4008.00/3,000		
BH1750FVI-CT-ND	Digital Serial Output Ambient Light Sensor	6-WSOF	2.98	2.38	1.79
BH1750FVI-TR-ND	Digital Serial Output Ambient Light Sensor	6-WSOF	4569.00/3,000		
BH2219FVM-CT-ND	8-Bit, 2-Channel D/A Converter	8-MSOP	1.45	1.16	.87
BH2219FVM-TR-ND	8-Bit, 2-Channel D/A Converter	8-MSOP	2784.00/3,000		
BH2220FVM-CT-ND	8-Bit, 3-Channel D/A Converter	8-MSOP	2.07	1.66	1.25
BH2220FVM-TR-ND	8-Bit, 3-Channel D/A Converter	8-MSOP	3183.00/3,000		
BH2221FV-E2-CT-ND	8-Bit, 12-Channel D/A Converter	20-SSOP	3.02	2.42	1.88
BH2221FV-E2-TR-ND	8-Bit, 12-Channel D/A Converter	20-SSOP	4220.00/2,500		
BH2223FV-E2-CT-ND	8-Bit, 10-Channel D/A Converter	16-SSOP	2.25	1.80	1.35
BH2223FV-E2-TR-ND	8-Bit, 10-Channel D/A Converter	16-SSOP	5312.50/2,500		
BH2226FV-FE2CT-ND	8-Bit, 8-Channel D/A Converter	16-SSOP	2.59	2.07	1.61
BH2226FV-FE2TR-ND	8-Bit, 8-Channel D/A Converter	16-SSOP	3825.00/2,500		
BH2227FV-E2CT-ND	8-Bit, 4-Channel D/A Converter	14-SSOP	2.90	2.42	1.94
BH2227FV-E2TR-ND	8-Bit, 4-Channel D/A Converter	14-SSOP	3142.50/2,500		
BH2228FV-E2CT-ND	8-Bit, 6-Channel D/A Converter	14-SSOP	1.88	1.50	1.13
BH2228FV-E2TR-ND	8-Bit, 6-Channel D/A Converter	14-SSOP	3872.50/2,500		
BH4127FV-E2CT-ND	IF Detector/900MHz Spread Spectrum Cordless Phone	16-SSOP	1.63	1.30	.98
BH4127FV-E2TR-ND	IF Detector/900MHz Spread Spectrum Cordless Phone	16-SSOP	2080.00/3,000		
BH6948GU-E2CT-ND	LED Driver, 49 LED Max. ***NEW!***	62-VCSP	7.90	6.32	5.34
BH6948GU-E2TR-ND	LED Driver, 49 LED Max. ***NEW!***	62-VCSP	12245.00/2,500		
BH7824FVM-FCT-ND	Audio Driver for Mobile Telephone	8-MSOP	1.20	1.00	.80
BH7824FVM-FTR-ND	Audio Driver for Mobile Telephone	8-MSOP	1560.00/3,000		
BH7826FVM-CT-ND	Audio Driver for Mobile Telephone	8-MSOP	1.32	1.10	.88
BH7826FVM-TR-ND	Audio Driver for Mobile Telephone	8-MSOP	2559.00/3,000		
BH76330FVM-CT-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1.94	1.56	1.17
BH76330FVM-TR-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	2979.00/3,000		
BH76331FVM-CT-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1.94	1.55	1.17
BH76331FVM-TR-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	2976.00/3,000		
BH76332FVM-CT-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1.47	1.23	.98
BH76332FVM-TR-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1911.00/3,000		
BH76333FVM-CT-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1.47	1.23	.98
BH76333FVM-TR-ND	3-Input, 1-Output Video Switch ***NEW!***	8-MSOP	1911.00/3,000		
BH76360FV-E2CT-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	2.25	1.80	1.40
BH76360FV-E2TR-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	3150.00/2,500		
BH76361FV-E2CT-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	2.66	2.13	1.66
BH76361FV-E2TR-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	3717.50/2,500		
BH76362FV-E2CT-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	2.55	2.04	1.53
BH76362FV-E2TR-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	3265.00/2,500		
BH76363FV-E2CT-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	2.55	2.04	1.53
BH76363FV-E2TR-ND	6-Input, 1-Output Video Switch ***NEW!***	16-SSOP	3265.00/2,500		
BP5029-ND	5V, 300mA DC/DC Converter	6-SIP	3.24	2.60	2.02
BP5034B20-ND	20V, 80mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5034D5-ND	5V, 100mA AC/DC Converter	10-SIP	7.00	5.60	4.73
BP5034D12-ND	12V, 100mA AC/DC Converter	10-SIP	3.32	2.66	2.07
BP5034D15-ND	15V, 80mA AC/DC Converter	10-SIP	3.83	3.06	2.38
BP5034D24-ND	24V, 50mA AC/DC Converter	10-SIP	4.46	3.57	2.78
BP5035A5-ND	-5V, 200mA AC/DC Converter	10-SIP	5.12	4.10	3.46
BP5035A12-ND	-12V, 200mA AC/DC Converter	10-SIP	4.16	3.33	2.59
BP5037B12-ND	12V, 200mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5037B15-ND	15V, 170mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5038A-ND	12V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5038A1-ND	5V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5039-15-ND	15V, 200mA AC/DC Converter	12-SIP	4.23	3.39	2.64
BP5039B12-ND	12V, 300mA AC/DC Converter	12-SIP	4.20	3.37	2.62
BP5041A-ND	12V, 100mA AC/DC Converter	10-SIP	8.14	6.52	5.50
BP5041A5-ND	5V, 100mA AC/DC Converter	10-SIP	8.14	6.52	5.50
BP5045A-ND	-12V, 200mA AC/DC Converter	10-SIP	4.50	3.60	2.80
BP5047A24-ND	24V, 150mA AC/DC Converter	12-SIP	5.36	4.29	3.34
BP5048-ND	12V, 300mA AC/DC Converter	12-SIP	7.52	6.02	4.68

* *RoHS Compliant*

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(Continued)

ROHM SEMICONDUCTOR **Digi-Reel®** *(Cont.)*

INTEGRATED CIRCUITS

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Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
BP5048-15-ND	15V, 200mA AC/DC Converter	12-SIP	7.52	6.02	4.68
BP5048-24-ND	24V, 200mA AC/DC Converter	12-SIP	6.68	5.35	4.51
BP5061-ND	-12V, 300mA AC/DC Converter	12-SIP	5.09	4.07	3.17
BP5061-5-ND	-5V, 350mA AC/DC Converter	12-SIP	4.91	3.93	3.06
BP5063-5-ND	5V, 200mA AC/DC Converter	10-SIP	6.72	5.38	4.54
BP5065C-ND	-12V, 90mA AC/DC Converter	9-SIP	4.95	3.96	3.08
BP5065C5-ND	-5V, 100mA AC/DC Converter	9-SIP	3.47	2.78	2.16
BP5067-12-ND	12V, 350mA AC/DC Converter	12-SIP	5.29	4.23	3.29
BP5067-15-ND	15V, 300mA AC/DC Converter	12-SIP	5.53	4.43	3.45
BP5068A-ND	-12V, 800mA AC/DC Converter	12-SIP	6.08	4.87	4.11
BP5068A24-ND	-24V, 600mA AC/DC Converter	12-SIP	5.70	4.56	3.85
BP5081A15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	14-SIP	6.32	5.06	4.27
BP5085-15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	16-SIP	9.12	7.30	6.16
BP5220A-ND	5V, 1A DC/DC Converter	9-SIP	10.56	8.45	7.13
BP5221A-ND	5V, 0.5A DC/DC Converter	9-SIP	10.80	8.64	6.72
BP5222A-ND	12V, 500mA DC/DC Converter	9-SIP	10.53	8.43	6.56
BP5223-ND	5V, 150mA DC/DC Converter	5-SIP	2.43	1.95	1.52
BP5232A25-ND	5V, 2A DC/DC Converter	9-SIP	6.70	5.36	4.53
BP5232A33-ND	5V, 2A DC/DC Converter	9-SIP	6.70	5.36	4.53
BP5234A33-ND	5V, 3A DC/DC Converter	10-SIP	13.00	10.40	8.78
BP5302A-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	5.54	4.43	3.45
BP5302XA-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	6.42	5.14	4.34
BP5310A-ND	12V, PCMCIA/Flash Memory Power Supply	9-SIP	5.82	4.66	3.93
BP5311XA-ND	30V, 25mA DC/DC Converter for LCDs	9LF-SIP	6.98	5.59	4.72
BP5313A-ND	40V, 60mA DC/DC Converter for LCDs	11-SIP	6.72	5.38	4.54
BP5319-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	5.56	4.45	3.46
BP5319X-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	4.55	3.64	2.83
BP5811-ND	Variable Output DC/DC Converter	9-SIP	3.04	2.43	1.89
BP5842A-ND	High Power LED Driver	11-SIP	10.58	9.53	8.45
BP5843A-ND	High Power LED Driver	11-SIP	11.80	10.62	9.42
BP5843A APP BOARD-ND	Evaluation Board for BP5843A ***NEW!***	—	48.00	—	—
BP5845W-ND	High Power LED Driver	16-SIP	22.05	20.58	19.11
BU2JTA2WNVX-CT-ND	2.85V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU2JTA2WNVX-TR-ND	2.85V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU4S01G2-CT-ND	Single 2-Input NOR Gate	5-SSOP	.48	.36	.27
BU4S11G2-CT-ND	Single 2-Input NAND Gate	5-SSOP	.69	.52	.39
BU4S11G2-TR-ND	Single 2-Input NAND Gate	5-SSOP	672.00/3,000		
BU4S66G2-CT-ND	Single Analog Switch	5-SSOP	.69	.52	.39
BU4S66G2-TR-ND	Single Analog Switch	5-SSOP	675.00/3,000		
BU4S584G2-CT-ND	Single Schmitt Inverter	5-SSOP	.67	.51	.38
BU4S584G2-TR-ND	Single Schmitt Inverter	5-SSOP	654.00/3,000		
BU4SU69G2-CT-ND	Single Inverter	5-SSOP	.72	.54	.41
BU4SU69G2-TR-ND	Single Inverter	5-SSOP	699.00/3,000		
BU15TA2WNVX-CT-ND	1.5V, 200mA, Full CMOS LDO Regulator	4-SSON	.60	.45	.34
BU15TA2WNVX-TR-ND	1.5V, 200mA, Full CMOS LDO Regulator	4-SSON	955.00/5,000		
BU18TA2WNVX-CT-ND	1.8V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU18TA2WNVX-TR-ND	1.8V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU25TA2WNVX-CT-ND	2.5V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU25TA2WNVX-TR-ND	2.5V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU26TA2WNVX-CT-ND	2.6V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU26TA2WNVX-TR-ND	2.6V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU27TA2WNVX-CT-ND	2.7V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU27TA2WNVX-TR-ND	2.7V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU28TA2WNVX-CT-ND	2.8V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU28TA2WNVX-TR-ND	2.8V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU29TA2WNVX-CT-ND	2.9V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU29TA2WNVX-TR-ND	2.9V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU30TA2WNVX-CT-ND	3V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU30TA2WNVX-TR-ND	3V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU31TA2WNVX-CT-ND	3.1V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU31TA2WNVX-TR-ND	3.1V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU32TA2WNVX-CT-ND	3.2V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU32TA2WNVX-TR-ND	3.2V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU33TA2WNVX-CT-ND	3.3V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU33TA2WNVX-TR-ND	3.3V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU34TA2WNVX-CT-ND	3.4V, 200mA, Full CMOS LDO Regulator	4-SSON	.64	.48	.36
BU34TA2WNVX-TR-ND	3.4V, 200mA, Full CMOS LDO Regulator	4-SSON	1020.00/5,000		
BU2050F-E2CT-ND	8-Bit Serial Input, Parallel Output Driver	14-SOP	1.55	1.24	.93
BU2050F-E2TR-ND	8-Bit Serial Input, Parallel Output Driver	14-SOP	1985.00/2,500		
BU2090F-E2CT-ND	12-Bit Serial Input, Parallel Output Driver	16-SOP	1.17	.98	.78
BU2090F-E2TR-ND	12-Bit Serial Input, Parallel Output Driver	16-SOP	1975.00/2,500		
BU2090FS-E2CT-ND	12-Bit Serial Input, Parallel Output Driver	A16-SSOP	2.05	1.71	1.37
BU2090FS-E2TR-ND	12-Bit Serial Input, Parallel Output Driver	A16-SSOP	2222.50/2,500		
BU2092F-E2CT-ND	12-Bit Serial Input, Parallel Output Driver	18-SOP	1.69	1.41	1.13
BU2092F-E2TR-ND	12-Bit Serial Input, Parallel Output Driver	18-SOP	1498.00/2,000		
BU2092FV-E2CT-ND	12-Bit Serial Input, Parallel Output Driver	B20-SSOP	1.45	1.16	.87
BU2092FV-E2TR-ND	12-Bit Serial Input, Parallel Output Driver	B20-SSOP	2122.50/2,500		
BU2098F-E2CT-ND	8-Bit Serial Input, Parallel Output Driver	16-SOP	1.48	1.18	.89
BU2099FV-E2CT-ND	12-Bit Serial Input, Parallel Output Driver	B20-SSOP	1.35	1.13	.90
BU2099FV-E2TR-ND	12-Bit Serial Input, Parallel Output Driver	B20-SSOP	1762.50/2,500		
BU2152FS-E2CT-ND	24-Bit Serial Input, Parallel Output Driver	A32-SSOP	2.33	1.86	1.40
BU2505FV-E2CT-ND	10-Bit, 10-Channel D/A Converter	B20-SSOP	4.50	3.60	2.80
BU2505FV-E2TR-ND	10-Bit, 10-Channel D/A Converter	B20-SSOP	6300.00/2,500		
BU2506FV-E2CT-ND	10-Bit, 8-Channel D/A Converter	20-SSOP	3.45	2.76	2.07
BU2506FV-E2TR-ND	10-Bit, 8-Channel D/A Converter	20-SSOP	4415.00/2,500		
BU2507FV-E2CT-ND	10-Bit, 6-Channel D/A Converter	B14-SSOP	2.33	1.86	1.40
BU2507FV-E2TR-ND	10-Bit, 6-Channel D/A Converter	B14-SSOP	4415.00/2,500		
BU2508FV-E2CT-ND	10-Bit, 4-Channel D/A Converter	14-SSOP	2.25	1.80	1.40
BU2508FV-E2TR-ND	10-Bit, 4-Channel D/A Converter	14-SSOP	4882.50/2,500		
BU4221G-CT-ND	2.1V CMOS Voltage Detector	5-SSOP	.56	.43	.32
BU4221G-TR-ND	2.1V CMOS Voltage Detector	5-SSOP	549.00/3,000		
BU7241G-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1.14	.95	.76
BU7241G-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1482.00/3,000		
BU7241SG-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1.17	.98	.78
BU7241SG-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1521.00/3,000		
BU7242F-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1.17	.98	.78
BU7242F-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1267.50/2,500		
BU7242FVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1.17	.98	.78
BU7242FVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1521.00/3,000		
BU7242SF-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1.29	1.08	.86
BU7242SF-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1397.50/2,500		
BU7242SFVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1.29	1.08	.86
BU7242SFVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1677.00/3,000		
BU7261G-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1.14	.95	.76
BU7261G-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1482.00/3,000		
BU7261SG-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1.17	.98	.78
BU7261SG-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	5-SSOP	1521.00/3,000		
BU7262F-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1.17	.98	.78
BU7262F-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1267.50/2,500		
BU7262FVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1.17	.98	.78
BU7262FVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1521.00/3,000		
BU7262SF-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1.29	1.08	.86
BU7262SF-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-SOP	1397.50/2,500		
BU7262SFVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1.29	1.08	.86
BU7262SFVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp	8-MSOP	1677.00/3,000		
BU7231G-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1.09	.91	.73
BU7231G-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1413.00/3,000		
BU7231SG-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1.42	1.14	.86
BU7231SG-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	2184.00/3,000		
BU7232F-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1.43	1.14	.86
BU7232F-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1825.00/2,500		
BU7232FVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	1.43	1.14	.86
BU7232FVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	2190.00/3,000		
BU7232SF-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1.60	1.28	.96
BU7232SF-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	2045.00/2,500		
BU7232SFVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	1.60	1.28	.96
BU7232SFVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	2454.00/3,000		
BU7251G-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1.09	.91	.73
BU7251G-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1413.00/3,000		
BU7251SG-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	1.42	1.14	.86
BU7251SG-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	5-SSOP	2184.00/3,000		
BU7252F-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1.43	1.14	.86
BU7252F-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1825.00/2,500		
BU7252FVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	1.43	1.14	.86
BU7252FVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	2190.00/3,000		
BU7252SF-E2CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	1.60	1.28	.96
BU7252SF-E2TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-SOP	2045.00/2,500		
BU7252SFVM-CT-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	1.60	1.28	.96
BU7252SFVM-TR-ND	1.8V~5.5V Low Voltage CMOS Op Amp ***NEW!***	8-MSOP	2454.00/3,000		
BU7441G-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	.68	.51	.39
BU7441G-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	663.00/3,000		
BU7441SG-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	.84	.63	.48
BU7441SG-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	819.00/3,000		
BU7442F-E2CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	.96	.72	.54
BU7442F-E2TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	780.00/2,500		
BU7442FVM-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	.96	.72	.54
BU7442FVM-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	936.00/3,000		
BU7442SF-E2CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	.90	.75	.60
BU7442SF-E2TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	975.00/2,500		
BU7442SFVM-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	.90	.75	.60
BU7442SFVM-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	1170.00/3,000		
BU7462F-E2CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	.96	.72	.54
BU7462F-E2TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	780.00/2,500		
BU7462FVM-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	.96	.72	.54
BU7462FVM-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	936.00/3,000		
BU7462SF-E2CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	.90	.75	.60
BU7462SF-E2TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-SOP	975.00/2,500		
BU7462SFVM-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	.90	.75	.60
BU7462SFVM-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	8-MSOP	1170.00/3,000		
BU7461G-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	.68	.51	.39
BU7461G-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	663.00/3,000		
BU7461SG-CT-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	.84	.63	.48
BU7461SG-TR-ND	1.7V~5.5V Ground Sense LV CMOS Op Amp	5-SSOP	819.00/3,000		
BU7839GVW-E2CT-ND	Digital Input D Class Headphone Amplifier	24-SBGA	5.83	4.67	3.63
BU7839GVW-E2TR-ND	Digital Input D Class Headphone Amplifier	24-SBGA	8157.50/2,500		
BU9437AKV-E2CT-ND	USB Host Digital Decoder	64-VQFP	14.11	12.75	11.31
BU9716BK-ND	96 LCD Segment Driver	44-QFP	3.08	2.47	1.92
BU9735K-E2CT-ND	18x4-Bit, 72 Segment LCD Driver	32-QFP	2.99	2.40	1.87
BU9735K-E2TR-ND	18x4-Bit, 72 Segment LCD Driver	32-QFP	2544.00/1,500		
BU52001GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52001GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	1926.00/3,000		
BU52002GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52002GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	1926.00/3,000		
BU52003GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52003GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	1926.00/3,000		
BU52004GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52004GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	1926.00/3,000		
BU52011HFV-CT-ND	Hall Effect Switch	5-HVSOF	1.47	1.11	.83
BU52011HFV-TR-ND	Hall Effect Switch	5-HVSOF	1431.00/3,000		
BU52012HFV-CT-ND	Hall Effect Switch	5-HVSOF	1.47	1.11	.83
BU52012HFV-TR-ND	Hall Effect Switch	5-HVSOF	1431.00/3,000		
BU52013HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52013HFV-TR-ND	Hall Effect Switch	5-HVSOF	1431.00/3,000		
BU52014HFV-CT-ND	Hall Effect Switch	5-HVSOF	1.58	1.19	.89
BU52014HFV-TR-ND	Hall Effect Switch	5-HVSOF	1542.00/3,000		
BU52015GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	1.20	1.00	.80
BU52015GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	2433.00/3,000		
BU52021HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52021HFV-TR-ND	Hall Effect Switch	5-HVSOF	1431.00/3,000		
BU52025G-CT-ND	S and N Pole Detection Hall Effect Switch	5-SSOP	1.50	1.13	.85
BU52025G-TR-ND	S and N Pole Detection Hall Effect Switch	5-SSOP	1464.00/3,000		
BU52040HFV-CT-ND	Bipolar Latch Type Hall Effect IC	5-HVSOF	1.29	1.08	.86
BU52040HFV-TR-ND	Bipolar Latch Type Hall Effect IC	5-HVSOF	2838.00/3,000		
BU52051NVX-CT-ND	1.65V-3.3V Bipolar Detection Hall IC	4-SSON	1.22	.92	.69
BU52051NVX-TR-ND	1.65V-3.3V Bipolar Detection Hall IC	4-SSON	1950.00/5,000		
LM2903DRCT-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM2903DRTR-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM2903DTCT-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM2903DTTR-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM2903MXRCT-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM2903MXRTR-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM2903VQDRCT-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM2903VQDRTR-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM2904DRCT-ND	26V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM2904DRTR-ND	26V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM2904DTCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM2904DTTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM2904MXCT-ND	26V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM2904MXTR-ND	26V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM2904VQDRCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM2904VQDRTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM2904WDTCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2904WDTTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM358DRCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM358DRTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM358DTCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM358DTTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM358MXRCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM358MXRTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM358WDTCT-ND	32V Dual Ground Sense Comparator	8-SOIC	.69	.52	.39
LM358WDTTR-ND	32V Dual Ground Sense Comparator	8-SOIC	562.50/2,500		
LM393DRCT-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM393DRTR-ND	0.8mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM393DTCT-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM393DTTR-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM393MXRCT-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM393MXRTR-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
LM393WDTCT-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	.58	.44	.33
LM393WDTTR-ND	0.4mA Dual Ground Sense Comparator	8-SOIC	472.50/2,500		
Memory					
BR24C01-DS6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-DS6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C01-DW6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-DW6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	705.00/3,000		
BR24C01-MN6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C01-MN6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	582.50/2,500		
BR24C01-RDS6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-RDS6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C01-RDW6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-RDW6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	705.00/3,000		
BR24C01-RMN6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C01-RMN6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	582.50/2,500		
BR24C01-WDS6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-WDS6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C01-WDW6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C01-WDW6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-TSSOP	705.00/3,000		
BR24C01-WMN6TPCT-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C01-WMN6TPTR-ND	1Kbit I^2C BUS Serial EEPROM	8-SOIC	582.50/2,500		
BR24C02-DS6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C02-DS6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C02-DW6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C02-DW6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	705.00/3,000		
BR24C02-MN6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C02-MN6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	585.00/2,500		
BR24C02-RDS6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C02-RDS6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C02-RDW6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.68	.52	.39
BR24C02-RDW6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	666.00/3,000		
BR24C02-RMN6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C02-RMN6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	585.00/2,500		
BR24C02-WDS6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C02-WDS6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	587.50/2,500		
BR24C02-WDW6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	.72	.55	.41
BR24C02-WDW6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-TSSOP	705.00/3,000		
BR24C02-WMN6TPCT-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR24C02-WMN6TPTR-ND	2Kbit I^2C BUS Serial EEPROM	8-SOIC	585.00/2,500		
BR24C04-DS6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.88	.67	.50
BR24C04-DS6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	717.50/2,500		
BR24C04-DW6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.88	.67	.50
BR24C04-DW6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	861.00/3,000		
BR24C04-MN6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	.81	.61	.46
BR24C04-MN6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	657.50/2,500		
BR24C04-RDS6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.88	.67	.50
BR24C04-RDS6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	717.50/2,500		
BR24C04-RDW6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.78	.59	.44
BR24C04-RDW6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	756.00/3,000		
BR24C04-RMN6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	.81	.61	.46
BR24C04-RMN6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	657.50/2,500		
BR24C04-WDS6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.88	.67	.50
BR24C04-WDS6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	717.50/2,500		
BR24C04-WDW6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	.88	.67	.50
BR24C04-WDW6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-TSSOP	861.00/3,000		
BR24C04-WMN6TPCT-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	.81	.61	.46
BR24C04-WMN6TPTR-ND	4Kbit I^2C BUS Serial EEPROM	8-SOIC	657.50/2,500		
BR24C08-DS6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-DS6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C08-DW6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-DW6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	897.00/3,000		
BR24C08-MN6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	.89	.67	.50
BR24C08-MN6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	722.50/2,500		
BR24C08-RDS6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-RDS6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C08-RDW6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-RDW6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	897.00/3,000		
BR24C08-RMN6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	.89	.67	.50
BR24C08-RMN6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	722.50/2,500		
BR24C08-WDS6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-WDS6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C08-WDW6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C08-WDW6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-TSSOP	897.00/3,000		
BR24C08-WMN6TPCT-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	.89	.67	.50
BR24C08-WMN6TPTR-ND	8Kbit I^2C BUS Serial EEPROM	8-SOIC	722.50/2,500		
BR24C16-DS6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C16-DS6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C16-DW6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1.06	.80	.60
BR24C16-DW6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1035.00/3,000		
BR24C16-MN6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	1.01	.76	.57
BR24C16-MN6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	822.50/2,500		
BR24C16-RDS6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C16-RDS6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C16-RDW6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1.06	.80	.60
BR24C16-RDW6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1035.00/3,000		
BR24C16-RMN6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	1.01	.76	.57
BR24C16-RMN6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	822.50/2,500		
BR24C16-WDS6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	.92	.69	.52
BR24C16-WDS6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	747.50/2,500		
BR24C16-WDW6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1.06	.80	.60
BR24C16-WDW6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-TSSOP	1035.00/3,000		

ROHM SEMICONDUCTOR Digi-Reel® *(Cont.)* INTEGRATED CIRCUITS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BR24C16-WMN6TPCT-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	1.01	.76	.57
BR24C16-WMN6TPTR-ND	16Kbit I^2C BUS Serial EEPROM	8-SOIC	822.50/2,500		
BR24C32-WMN6TPCT-ND	32Kbit I^2C BUS Serial EEPROM	8-SOIC	.87	.73	.58
BR24C32-WMN6TPTR-ND	32Kbit I^2C BUS Serial EEPROM	8-SOIC	1237.50/2,500		
BR24L01A-W-ND	1KBit I^2C BUS Serial EEPROM	8-Dip	.80	.60	.45
BR24L01AF-WE2CT-ND	1KBit I^2C BUS Serial EEPROM	8-SOP	.55	.44	.33
BR24L01AF-WE2TR-ND	1KBit I^2C BUS Serial EEPROM	8-SOP	605.00/2,500		
BR24L01AFJ-WE2CT-ND	1KBit I^2C BUS Serial EEPROM	J8-SOP	.52	.39	.30
BR24L01AFV-WE2CT-ND	1KBit I^2C BUS Serial EEPROM	8-SSOP	.72	.54	.41
BR24L01AFV-WE2TR-ND	1KBit I^2C BUS Serial EEPROM	8-SSOP	585.00/2,500		
BR24L01AFVM-WCT-ND	1KBit I^2C BUS Serial EEPROM	8-MSOP	.52	.39	.30
BR24L01AFVT-WE2CT-ND	1KBit I^2C BUS Serial EEPROM	8-TSSOP	.84	.63	.48
BR24L01AFVT-WE2TR-ND	1KBit I^2C BUS Serial EEPROM	8-TSSOP	819.00/3,000		
BR24L02-W-ND	2KBit I^2C BUS Serial EEPROM	8-Dip	.80	.60	.45
BR24L02F-WE2CT-ND	2KBit I^2C BUS Serial EEPROM	8-SOP	.72	.54	.41
BR24L02F-WE2TR-ND	2KBit I^2C BUS Serial EEPROM	8-SOP	585.00/2,500		
BR24L02FJ-WE2CT-ND	2KBit I^2C BUS Serial EEPROM	8-SOP	.72	.54	.41
BR24L02FJ-WE2TR-ND	2KBit I^2C BUS Serial EEPROM	8-SOP	585.00/2,500		
BR24L02FV-WE2CT-ND	2KBit I^2C BUS Serial EEPROM	8-SSOP	.90	.72	.54
BR24L02FV-WE2TR-ND	2KBit I^2C BUS Serial EEPROM	8-SSOP	607.50/2,500		
BR24L02FVM-WCT-ND	2KBit I^2C BUS Serial EEPROM	8-MSOP	.71	.54	.40
BR24L02FVM-WTR-ND	2KBit I^2C BUS Serial EEPROM	8-MSOP	690.00/3,000		
BR24L04-W-ND	4KBit I^2C BUS Serial EEPROM	8-Dip	.88	.66	.50
BR24L04F-WE2CT-ND	4KBit I^2C BUS Serial EEPROM	8-SOP	.81	.61	.46
BR24L04F-WE2TR-ND	4KBit I^2C BUS Serial EEPROM	8-SOP	657.50/2,500		
BR24L04FJ-WE2CT-ND	4KBit I^2C BUS Serial EEPROM	8-SOP	.72	.54	.41
BR24L04FJ-WE2TR-ND	4KBit I^2C BUS Serial EEPROM	8-SOP	657.50/2,500		
BR24L04FV-WE2CT-ND	4KBit I^2C BUS Serial EEPROM	8-SSOP	.88	.67	.50
BR24L04FV-WE2TR-ND	4KBit I^2C BUS Serial EEPROM	8-SSOP	717.50/2,500		
BR24L04FVM-WCT-ND	4KBit I^2C BUS Serial EEPROM	8-MSOP	.72	.54	.41
BR24L04FVM-WTR-ND	4KBit I^2C BUS Serial EEPROM	8-MSOP	861.00/3,000		
BR24L04FVT-WE2CT-ND	4KBit I^2C BUS Serial EEPROM	8-TSSOP	.96	.72	.54
BR24L04FVT-WE2TR-ND	4KBit I^2C BUS Serial EEPROM	8-TSSOP	936.00/3,000		
BR24L08-W-ND	8KBit I^2C BUS Serial EEPROM	8-Dip	.96	.72	.54
BR24L08F-WE2CT-ND	8KBit I^2C BUS Serial EEPROM	8-SOP	.72	.54	.41
BR24L08F-WE2TR-ND	8KBit I^2C BUS Serial EEPROM	8-SOP	722.50/2,500		
BR24L08FJ-WE2CT-ND	8KBit I^2C BUS Serial EEPROM	8-SOP	.72	.54	.41
BR24L08FJ-WE2TR-ND	8KBit I^2C BUS Serial EEPROM	8-SOP	722.50/2,500		
BR24L08FV-WE2CT-ND	8KBit I^2C BUS Serial EEPROM	8-SSOP	.72	.54	.41
BR24L08FV-WE2TR-ND	8KBit I^2C BUS Serial EEPROM	8-SSOP	747.50/2,500		
BR24L08FVM-WCT-ND	8KBit I^2C BUS Serial EEPROM	8-MSOP	.92	.69	.52
BR24L08FVM-WTR-ND	8KBit I^2C BUS Serial EEPROM	8-MSOP	897.00/3,000		
BR24L08FVT-WE2CT-ND	8KBit I^2C BUS Serial EEPROM	8-TSSOP	1.00	.75	.57
BR24L08FVT-WE2TR-ND	8KBit I^2C BUS Serial EEPROM	8-TSSOP	975.00/3,000		
BR24L16FJ-WE2CT-ND	16KBit I^2C BUS Serial EEPROM	8-SOP	.84	.63	.48
BR24L16FJ-WE2TR-ND	16KBit I^2C BUS Serial EEPROM	8-SOP	822.50/2,500		
BR24L16-W-ND	16KBit I^2C BUS Serial EEPROM	8-Dip	.78	.65	.52
BR24L16F-WE2CT-ND	16KBit I^2C BUS Serial EEPROM	8-SOP	1.01	.76	.57
BR24L16F-WE2TR-ND	16KBit I^2C BUS Serial EEPROM	8-SOP	822.50/2,500		
BR24L16FV-WE2CT-ND	16KBit I^2C BUS Serial EEPROM	8-SSOP	.84	.63	.48
BR24L16FV-WE2TR-ND	16KBit I^2C BUS Serial EEPROM	8-SSOP	862.50/2,500		
BR24L16FVM-WCT-ND	16KBit I^2C BUS Serial EEPROM	8-MSOP	.84	.63	.48
BR24L16FVT-WE2CT-ND	16KBit I^2C BUS Serial EEPROM	8-TSSOP	.90	.75	.60
BR24L16FVT-WE2TR-ND	16KBit I^2C BUS Serial EEPROM	8-TSSOP	1170.00/3,000		
BR24L32FJ-WE2CT-ND	32KBit I^2C BUS Serial EEPROM	8-SOP	1.02	.85	.68
BR24L32FJ-WE2TR-ND	32KBit I^2C BUS Serial EEPROM	8-SOP	1237.50/2,500		
BR24L32-W-ND	32KBit I^2C BUS Serial EEPROM	8-Dip	1.44	1.20	.96
BR24L32F-WE2CT-ND	32KBit I^2C BUS Serial EEPROM	8-SOP	1.02	.85	.68
BR24L32F-WE2TR-ND	32KBit I^2C BUS Serial EEPROM	8-SOP	1237.50/2,500		
BR24L32FV-WE2CT-ND	32KBit I^2C BUS Serial EEPROM	8-SSOP	1.09	.91	.73
BR24L32FV-WE2TR-ND	32KBit I^2C BUS Serial EEPROM	8-SSOP	1182.50/2,500		
BR24L32FVT-WE2CT-ND	32KBit I^2C BUS Serial EEPROM	8-TSSOP	1.35	1.13	.90
BR24L32FVT-WE2TR-ND	32KBit I^2C BUS Serial EEPROM	8-TSSOP	1755.00/3,000		
BR24L64-W-ND	64KBit I^2C BUS Serial EEPROM	8-Dip	1.47	1.23	.98
BR24L64F-WE2CT-ND	64KBit I^2C BUS Serial EEPROM	8-SOP	1.56	1.30	1.04
BR24L64F-WE2TR-ND	64KBit I^2C BUS Serial EEPROM	8-SOP	1690.00/2,500		
BR24L64FJ-WE2CT-ND	64KBit I^2C BUS Serial EEPROM	J8-SOP	1.58	1.26	.95
BR24L64FJ-WE2TR-ND	64KBit I^2C BUS Serial EEPROM	J8-SOP	2418.00/3,000		
BR24S08FJ-WE2CT-ND	8KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	.90	.68	.51
BR24S08FJ-WE2TR-ND	8KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	732.50/2,500		
BR24S08FVT-WE2CT-ND	8KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	.90	.68	.51
BR24S08FVT-WE2TR-ND	8KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	879.00/3,000		
BR24S16FJ-WE2CT-ND	16KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	.78	.59	.45
BR24S16FJ-WE2TR-ND	16KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	637.50/2,500		
BR24S16FVT-WE2CT-ND	16KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	.94	.71	.53
BR24S16FVT-WE2TR-ND	16KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	918.00/3,000		
BR24S32FJ-WE2CT-ND	32KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	.83	.69	.55
BR24S32FJ-WE2TR-ND	32KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	895.00/2,500		
BR24S32FVT-WE2CT-ND	32KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	.83	.69	.55
BR24S32FVT-WE2TR-ND	32KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	1074.00/3,000		
BR24S64FJ-WE2CT-ND	64KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	1.09	.91	.73
BR24S64FJ-WE2TR-ND	64KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	1180.00/2,500		
BR24S64FVT-WE2CT-ND	64KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	1.06	.88	.71
BR24S64FVT-WE2TR-ND	64KBit I^2C BUS Serial EEPROM ***NEW!***	8-TSSOP	1374.00/3,000		
BR24S128FJ-WE2CT-ND	128KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	1.37	1.10	.83
BR24S128FJ-WE2TR-ND	128KBit I^2C BUS Serial EEPROM ***NEW!***	J8-SOP	1757.50/2,500		
BR24S128FVT-WE2CT-ND	128KBit I^2C BUS Serial EEPROM	8-TSSOP	1.37	1.10	.83
BR24S128FVT-WE2TR-ND	128KBit I^2C BUS Serial EEPROM	8-TSSOP	2109.00/3,000		
BR24S256FJ-WE2CT-ND	256KBit I^2C BUS Serial EEPROM	J8-SOP	1.96	1.57	1.18
BR24S256FJ-WE2TR-ND	256KBit I^2C BUS Serial EEPROM	J8-SOP	2512.50/2,500		
BR25L010FJ-WE2CT-ND	1KBit SPI BUS Serial EEPROM	8-SOP	.84	.63	.48
BR25L010FJ-WE2TR-ND	1KBit SPI BUS Serial EEPROM	8-SOP	877.50/2,500		
BR25L010FVJ-WE2CT-ND	1KBit SPI BUS Serial EEPROM	8-TSSOP	.88	.66	.50
BR25L010FVJ-WE2TR-ND	1KBit SPI BUS Serial EEPROM	8-TSSOP	927.50/2,500		
BR25L010FVT-WE2CT-ND	1KBit SPI BUS Serial EEPROM	8-TSSOP	1.14	.86	.65
BR25L010FVT-WE2TR-ND	1KBit SPI BUS Serial EEPROM	8-TSSOP	1113.00/3,000		
BR25L020FJ-WE2CT-ND	2KBit SPI BUS Serial EEPROM	8-SOP	.92	.69	.52
BR25L020FJ-WE2TR-ND	2KBit SPI BUS Serial EEPROM	8-SOP	900.00/2,500		
BR25L020FVJ-WE2CT-ND	2KBit SPI BUS Serial EEPROM	8-TSSOP	.96	.72	.54
BR25L020FVJ-WE2TR-ND	2KBit SPI BUS Serial EEPROM	8-TSSOP	952.50/2,500		
BR25L020FVT-WE2CT-ND	2KBit SPI BUS Serial EEPROM	8-TSSOP	.96	.72	.54
BR25L020FVT-WE2TR-ND	2KBit SPI BUS Serial EEPROM	8-TSSOP	1143.00/3,000		
BR25L040FJ-WE2CT-ND	4KBit SPI BUS Serial EEPROM	8-SOP	.84	.63	.48
BR25L040FJ-WE2TR-ND	4KBit SPI BUS Serial EEPROM	8-SOP	930.00/2,500		
BR25L040FVJ-WE2CT-ND	4KBit SPI BUS Serial EEPROM	8-TSSOP	.84	.63	.48
BR25L040FVJ-WE2TR-ND	4KBit SPI BUS Serial EEPROM	8-TSSOP	930.00/2,500		

* ***RoHS Compliant***

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

INTEGRATED CIRCUITS

ROHM SEMICONDUCTOR Digi-Reel® (Cont.)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BR25L040FVT-WE2CT-ND	4KBit SPI BUS Serial EEPROM	8-TSSOP	.84	.63	.48
BR25L040FVT-WE2TR-ND	4KBit SPI BUS Serial EEPROM	8-TSSOP	1116.00/3,000		
BR25L080FJ-WE2CT-ND	8KBit SPI BUS Serial EEPROM	8-SOP	.81	.68	.54
BR25L080FJ-WE2TR-ND	8KBit SPI BUS Serial EEPROM	8-SOP	1085.00/2,500		
BR25L080FVT-WE2CT-ND	8KBit SPI BUS Serial EEPROM	8-TSSOP	1.06	.89	.71
BR25L080FVT-WE2TR-ND	8KBit SPI BUS Serial EEPROM	8-TSSOP	1377.00/3,000		
BR25L160FJ-WE2CT-ND	16KBit SPI BUS Serial EEPROM	8-SOP	1.08	.90	.72
BR25L160FJ-WE2TR-ND	16KBit SPI BUS Serial EEPROM	8-SOP	1167.50/2,500		
BR25L160FVT-WE2CT-ND	16KBit SPI BUS Serial EEPROM	8-TSSOP	.93	.78	.62
BR25L320FJ-WE2CT-ND	32KBit SPI BUS Serial EEPROM	8-SOP	1.11	.93	.74
BR25L320FJ-WE2TR-ND	32KBit SPI BUS Serial EEPROM	8-SOP	1455.00/2,500		
BR25L640FJ-WE2CT-ND	64KBit SPI BUS Serial EEPROM	8-SOP	1.81	1.51	1.21
BR25L640FJ-WE2TR-ND	64KBit SPI BUS Serial EEPROM	8-SOP	1957.50/2,500		
BR34L02FV-WE2CT-ND	2KBit Serial EEPROM	8-SSOP	.48	.36	.27
BR34L02FV-WE2TR-ND	2KBit Serial EEPROM	8-SSOP	617.50/2,500		
BR93C86-WMN6TPCT-ND	1Kx16-Bit Serial EEPROM	8-SOIC	.76	.57	.43
BR93C86-WMN6TPTR-ND	1Kx16-Bit Serial EEPROM	8-SOIC	955.00/2,500		
BR93L46-W-ND	64x16-Bit Serial EEPROM	8-Dip	.72	.54	.41
BR93L46F-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.73	.55	.41
BR93L46F-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	592.50/2,500		
BR93L46FJ-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L46FV-WE2CT-ND	64x16-Bit Serial EEPROM	8-SSOP	.77	.58	.44
BR93L46FV-WE2TR-ND	64x16-Bit Serial EEPROM	8-SSOP	625.00/2,500		
BR93L46FVT-WE2CT-ND	64x16-Bit Serial EEPROM	8-TSSOP	.92	.69	.52
BR93L46FVT-WE2TR-ND	64x16-Bit Serial EEPROM	8-TSSOP	897.00/3,000		
BR93L46RF-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L46RF-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	592.50/2,500		
BR93L46RFJ-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.73	.55	.41
BR93L46RFJ-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	592.50/2,500		
BR93L46RFV-WE2CT-ND	64x16-Bit Serial EEPROM	8-SSOP	.77	.58	.44
BR93L46RFV-WE2TR-ND	64x16-Bit Serial EEPROM	8-SSOP	625.00/2,500		
BR93L46RFVM-WCT-ND	64x16-Bit Serial EEPROM	8-MSOP	.71	.54	.40
BR93L46RFVM-WTR-ND	64x16-Bit Serial EEPROM	8-MSOP	690.00/3,000		
BR93L56-W-ND	128x16-Bit Serial EEPROM	8-Dip	.88	.66	.50
BR93L56F-WE2CT-ND	128x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L56F-WE2TR-ND	128x16-Bit Serial EEPROM	8-SOP	597.50/2,500		
BR93L56FV-WE2CT-ND	128x16-Bit Serial EEPROM	8-SSOP	.64	.48	.36
BR93L56FV-WE2TR-ND	128x16-Bit Serial EEPROM	8-SSOP	630.00/2,500		
BR93L56FVT-WE2CT-ND	128x16-Bit Serial EEPROM	8-TSSOP	.92	.69	.52
BR93L56FVT-WE2TR-ND	128x16-Bit Serial EEPROM	8-TSSOP	897.00/3,000		
BR93L56RF-WE2CT-ND	128x16-Bit Serial EEPROM	8-SOP	.74	.56	.42
BR93L56RF-WE2TR-ND	128x16-Bit Serial EEPROM	8-SOP	597.50/2,500		
BR93L56RFVM-WCT-ND	128x16-Bit Serial EEPROM	8-MSOP	.64	.48	.36
BR93L56RFVM-WTR-ND	128x16-Bit Serial EEPROM	8-MSOP	690.00/3,000		
BR93L66-W-ND	256x16-Bit Serial EEPROM	8-Dip	.75	.63	.50
BR93L66F-WE2CT-ND	256x16-Bit Serial EEPROM	8-SOP	.82	.62	.46
BR93L66F-WE2TR-ND	256x16-Bit Serial EEPROM	8-SOP	662.50/2,500		
BR93L66FV-WE2CT-ND	256x16-Bit Serial EEPROM	8-SSOP	.80	.60	.45
BR93L66FV-WE2TR-ND	256x16-Bit Serial EEPROM	8-SSOP	717.50/2,500		
BR93L66FVT-WE2CT-ND	256x16-Bit Serial EEPROM	8-TSSOP	1.02	.77	.58
BR93L66FVT-WE2TR-ND	256x16-Bit Serial EEPROM	8-TSSOP	996.00/3,000		
BR93L66RFVM-WCT-ND	256x16-Bit Serial EEPROM	8-MSOP	.80	.60	.45
BR93L66RFVM-WTR-ND	256x16-Bit Serial EEPROM	8-MSOP	861.00/3,000		
BR93L76-W-ND	512x16-Bit Serial EEPROM	8-Dip	.93	.78	.62
BR93L76F-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOP	.80	.60	.45
BR93L76F-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOP	760.00/2,500		
BR93L76RF-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR93L76RF-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOP	652.50/2,500		
BR93L76RFJ-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOIC	.88	.66	.50
BR93L76RFJ-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOIC	760.00/2,500		
BR93L76RFV-WE2CT-ND	512x16-Bit Serial EEPROM	8-SSOP	.88	.66	.50
BR93L76RFV-WE2TR-ND	512x16-Bit Serial EEPROM	8-SSOP	825.00/2,500		
BR93L76RFVJ-WE2CT-ND	512x16-Bit Serial EEPROM	8-TSSOP	.96	.72	.54
BR93L76RFVJ-WE2TR-ND	512x16-Bit Serial EEPROM	8-TSSOP	1047.50/2,500		
BR93L76RFVM-WCT-ND	512x16-Bit Serial EEPROM	8-MSOP	1.02	.77	.58
BR93L76RFVM-WTR-ND	512x16-Bit Serial EEPROM	8-MSOP	990.00/3,000		
BR93L76RFVT-WE2CT-ND	512x16-Bit Serial EEPROM	8-TSSOP	.96	.72	.54
BR93L76RFVT-WE2TR-ND	512x16-Bit Serial EEPROM	8-TSSOP	1257.00/3,000		
BR93L86-W-ND	1Kx16-Bit Serial EEPROM	8-Dip	1.26	1.05	.84
BR93L86F-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.88	.66	.50
BR93L86F-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	887.50/2,500		
BR93L86FJ-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.82	.69	.55
BR93L86FJ-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	887.50/2,500		
BR93L86RF-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.96	.72	.54
BR93L86RF-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	887.50/2,500		
BR93L86RFJ-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.96	.72	.54
BR93L86RFV-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SSOP	.75	.63	.50
BR93L86RFV-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SSOP	987.50/2,500		
BR93L86RFVJ-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-TSSOP	.81	.68	.54
BR93L86RFVJ-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-TSSOP	1257.50/2,500		
BR93L86RFVM-WCT-ND	1Kx16-Bit Serial EEPROM	8-MSOP	.75	.63	.50
BR93L86RFVM-WTR-ND	1Kx16-Bit Serial EEPROM	8-MSOP	1185.00/3,000		
BR93L86RFVT-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-TSSOP	.81	.68	.54
BR93L86RFVT-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-TSSOP	1185.00/3,000		
BR95010-WMN6TPCT-ND	SPI BUS Serial EEPROM	8-SOIC	.72	.54	.41
BR95010-WMN6TPTR-ND	SPI BUS Serial EEPROM	8-SOIC	877.50/2,500		
BR95080-WMN6TPCT-ND	SPI BUS Serial EEPROM	8-SOIC	.92	.69	.52
BR95080-WMN6TPTR-ND	SPI BUS Serial EEPROM	8-SOIC	1085.00/2,500		
BR95320-WMN6TPCT-ND	SPI BUS Serial EEPROM	8-SOIC	.96	.80	.64
NEW! Fingerprint Scanner ICs NEW!					
MK67Q5250V-0001YC-ND	Snap-In Biometrix Module	—	93.23	87.01	80.80
MK67Q5250V-0101YC-ND	Screw-In Biometrix Module	—	93.23	87.01	80.80
MK67Q5250SDK-2510-ND	Software Development Kit for MK67Q250	—	739.20	—	—

CONTROL / POWER INTEGRATED CIRCUITS

International IOR Rectifier Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Driver ICs					
IP2002PBF-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block*	144-BGA	17.03	14.32	13.16
IP2005ATRPBFCT-ND	40A, High Freq. Sync. Buck Multiphase Optimized LGA Power Block*	7.65x7.65x 1.66mm LGA	6.96	5.69	5.11

CONTROL / POWER INTEGRATED CIRCUITS

International IOR Rectifier Digi-Reel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IP2005ATRPBFTR-ND	40A, High Freq. Sync. Buck Multiphase Optimized LGA Power Block*	7.65x7.65x 1.66mm LGA	6172.00/2,000		
IR2010PBF-ND	High and Low Side Driver*	14-Dip	4.20	3.38	3.08
IR2101PBF-ND	High and Low Side Driver*	8-Dip	2.32	1.87	1.69
IR2103PBF-ND	High and Low MOS Driver*	8-Dip	2.28	1.84	1.66
IR2104PBF-ND	High and Low Side Driver*	8-Dip	2.32	1.87	1.69
IR2104SPBFCT-ND	High and Low Side Driver*	8-SOIC	2.62	2.25	1.84
IR2104SPBFTR-ND	High and Low Side Driver*	8-SOIC	2525.00/2,500		
IR2106PBF-ND	High and Low Side Driver*	8-Dip	3.00	2.41	2.20
IR2108PBF-ND	High and Low Side Driver*	8-Dip	3.05	2.46	2.24
IR2109SPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.66	2.05	1.86
IR2109SPBFTR-ND	Half-Bridge Driver*	8-SOIC	2562.50/2,500		
IR2110-1PBF-ND	High and Low Side Driver*	14-Dip	5.32	4.28	3.90
IR2110-2PBF-ND	High and Low Side Driver*	14-Dip	5.46	4.39	4.00
IR2110PBF-ND	High and Low Side Driver*	14-Dip	3.86	3.11	2.83
IR2111SPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.93	2.40	2.15
IR2112-1PBF-ND	High and Low Side Driver*	14-Dip	4.00	3.22	2.94
IR2113-1PBF-ND	High and Low Side Driver*	14-Dip	5.04	4.05	3.69
IR2113-2PBF-ND	High and Low Side Driver*	16-Dip	5.18	4.17	3.80
IR2113SPBFCT-ND	High and Low Side Driver*	16-SOIC	4.39	3.59	3.23
IR2113SPBFTR-ND	High and Low Side Driver*	16-SOIC	2050.00/1,000		
IR2117PBF-ND	Single-Channel Driver*	8-DIP	2.68	2.16	1.95
IR2132JTRPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	13.11	11.12	10.26
IR2132JTRPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	4132.50/500		
IR2135SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	11.50	9.75	9.00
IR2135SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	6650.00/1,000		
IR2153SPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	3.57	2.92	2.63
IR2175PBF-ND	Linear Current Sensing IC*	8-Dip	6.25	5.13	4.63
IR2181PBF-ND	High and Low Side Driver*	8-Dip	3.36	2.70	2.46
IR2181SPBFCT-ND	High and Low Side Driver*	8-SOIC	3.81	3.12	2.80
IR2181SPBFTR-ND	High and Low Side Driver*	8-SOIC	4222.50/2,500		
IR2183PBF-ND	Half-Bridge Driver*	8-Dip	3.36	2.70	2.46
IR2183SPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.81	3.12	2.80
IR2183SPBFTR-ND	Half-Bridge Driver*	8-SOIC	4222.50/2,500		
IR2184PBF-ND	High and Low Side Driver*	8-Dip	3.28	2.64	2.40
IR2233JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	18.75	16.88	15.47
IR2301PBF-ND	High and Low Side Driver*	8-Dip	2.80	2.25	2.05
IR2302PBF-ND	Half-Bridge Driver*	8-Dip	2.80	2.25	2.05
IR3080MPBFCT-ND	XPHASE™ VRD10 Controller*	32-MLPQ	4.05	3.31	2.97
IR3080MPBFTR-ND	XPHASE™ VRD10 Controller*	32-MLPQ	5388.00/3,000		
IR3081AMPBFCT-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	4.11	3.36	3.02
IR3081AMPBFTR-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	5466.00/3,000		
IR3082AMTRPBFCT-ND	9.6V AMD XPHASE™ Controller*	20-MLPQ	3.84	3.14	2.82
IR3082AMTRPBFTR-ND	9.6V AMD XPHASE™ Controller*	20-MLPQ	5106.00/3,000		
IR3094MPBFCT-ND	3-Phase PWM Controller for Point of Load*	48-MLPQ	6.06	4.96	4.45
IR3101-ND	1.6A, 500V Half-Bridge FredFET Driver	11-Sip	6.25	5.13	4.63
IR3103-ND	0.75A, 500V Gate Drvr with Half-Bridge FredFET Drvr	11-Sip	5.96	4.80	4.37
IR4427PBF-ND	Low Side Driver*	8-Dip	2.36	1.90	1.71
IR4427SPBFCT-ND	Low Side Driver*	8-SOIC	3.01	2.32	2.11
IR4427SPBFTR-ND	Low Side Driver*	8-SOIC	2900.00/2,500		
IR21084PBF-ND	High and Low Side Driver*	14-Dip	3.22	2.59	2.36
IR21084SPBFCT-ND	High and Low Side Driver*	14-SOIC	3.03	2.48	2.23
IR21091STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.00	2.41	2.20
IR21091STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3557.50/2,500		
IR21362JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	8.35	6.93	6.30
IR21362JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2441.50/500		
IR21362SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	7.16	5.94	5.40
IR21364JTRPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	7.69	6.38	5.80
IR21364JTRPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2247.50/500		
IR21364STRPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	6.75	5.54	5.00
IR21364STRPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	3645.00/1,000		
IR21531SPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.29	1.77	1.61
IR21531SPBFTR-ND	Half-Bridge Driver*	8-SOIC	2215.00/2,500		
IR21571PBF-ND	Ballast Control*	16-Dip	4.26	3.42	3.12
IR21592SPBF-ND	Dimming Ballast Control*	16-SOIC	6.24	5.02	4.58
IR21834SPBFCT-ND	600V, Half-Bridge Driver*	14-SOIC	4.11	3.36	3.02
IR21834SPBFTR-ND	600V, Half-Bridge Driver*	14-SOIC	4555.00/2,500		
IRAM109-015SD-ND	500V, H-Bridge 1A Integrated Power Hybrid Module for Appliance Motor Drive Applications*	SIP-S	15.18	12.77	11.73
IRAM136-1060B-ND	600V, 10A Integrated Power Hybrid Module w/ Internal Shunt Resistor for Appliance Motor Drive Applications*	SIP05	24.00	20.40	18.90
IRAM136-3063B-ND	600V, 30A Integrated Power Hybrid Module with Internal Shunt Resistor, for Low Voltage Motor Drive Applications*	SIP3	44.40	38.40	36.00
IRAM336-025SB-ND	500V, 2A Integrated Power Hybrid Module for Appliance Motor Drive Applications*	SIP-S	16.06	13.51	12.41
IRAMS06UP60A-2-ND	600V, 6A Plug N Drive Integrated Power Module For Appliance Motor Drive*	Module	20.30	17.26	15.99
IRAMS06UP60B-ND	600V, 6A Plug N Drive Integrated Power Module with Internal Shunt Resistor for Appliance Motor Drive	Module	21.20	18.02	16.70
IRAMS06UP60B-2-ND	600V, 6A Plug N Drive Integrated Power Module with Internal Shunt Resistor for Appliance Motor Drive*	Module	21.00	17.85	16.54
IRAMS10UP60A-2-ND	600V, 10A Plug N Drive Integrated Power Module for Appliance Motor Drive*	Module	23.00	19.55	18.12
IRAMS10UP60B-ND	600V, 10A Plug N Drive Integrated Power Module for Appliance Motor Drive	Module	23.40	19.89	18.43
IRAMS10UP60B-2-ND	600V, 10A Plug N Drive Integrated Power Module w/ Internal Shunt Resistor for Appliance Motor Drive*	Module	23.40	19.89	18.43
IRAMS10UP60B-3-ND	600V, 10A Plug N Drive Integrated Power Module w/ Internal Shunt Resistor for Appliance Motor Drive*	Module	23.00	19.55	18.12
IRAMX16UP60A-ND	600V, 16A Plug N Drive Integrated Power Module for Appliance Motor Drive	SIP2	31.70	26.95	24.97
IRAMX16UP60A-2-ND	600V, 16A Plug N Drive Integrated Power Module for Appliance Motor Drive Applications*	SIP2	31.70	26.95	24.97
IRAMX16UP60B-ND	600V, 16A Integrated Power Module with Internal Shunt Resistor for Appliance Drive Applications*	SIP2	33.70	28.65	26.54
IRAMX16UP60B-2-ND	600V, 16A Integrated Power Module with Internal Shunt Resistor for Appliance Drive Applications*	SIP2	33.00	28.05	25.99
IRAMX20UP60A-ND	600V, 20A Integrated Power Module w/Open Emitter Pins for Appliance Motor Drive Applications*	SIP2	34.00	28.90	26.78
IRAMX20UP60A-2-ND	600V, 20A Integrated Power Module w/Open Emitter Pins for Appliance Motor Drive Applications*	SIP2	34.00	28.90	26.78
IRAMY20UP60B-ND	600V, 20A Integrated Power Module w/Internal Shunt Resistor for Appliance Motor Drive Applications*	SIP3	38.54	32.76	30.36
IRMCF311CT-ND	Dual Channel Sensorless RAM-Based Motor Control*	64-QFP	11.25	9.23	8.33

* RoHS Compliant

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(Continued)

International IOR Rectifier Digi-Reel® *(Cont.)* CONTROL / POWER INTEGRATED CIRCUITS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
IRMCF311TR-ND	Dual Channel Sensorless RAM-Based Motor Control*	64-QFP	9112.50/1,500		
IRMCF312CT-ND	Dual Channel Sensorless RAM-Based Motor Control*	100-QFP	12.00	9.84	8.88
IRMCF312TR-ND	Dual Channel Sensorless RAM-Based Motor Control*	100-QFP	6480.00/1,000		
IRMCF341CT-ND	HP Sensorless RAM-Based Motor Control*	64-QFP	12.00	9.84	8.88
IRMCF343CT-ND	HP Sensorless RAM-Based Motor Control*	64-QFP	11.25	9.23	8.33
IRMCF343TR-ND	HP Sensorless RAM-Based Motor Control*	64-QFP	9112.50/1,500		
IRMCF371CT-ND	HP Sensorless RAM-Based Motor Control*	48-QFP	10.25	8.41	7.59
IRMCF371TR-ND	HP Sensorless RAM-Based Motor Control*	48-QFP	10660.00/2,000		
IRMCK311CT-ND	Dual Channel Sensorless OTP-Based Motor Control*	64-QFP	7.00	5.74	5.18
IRMCK311TR-ND	Dual Channel Sensorless OTP-Based Motor Control*	64-QFP	5670.00/1,500		
IRMCK341CT-ND	HP Sensorless OTP-Based Motor Control*	64-QFP	10.50	8.61	7.77
IRMCK341TR-ND	HP Sensorless OTP-Based Motor Control*	64-QFP	8505.00/1,500		
IRMCK343CT-ND	HP Sensorless OTP-Based Motor Control*	64-QFP	7.00	5.74	5.18
IRMCK343TR-ND	HP Sensorless OTP-Based Motor Control*	64-QFP	5670.00/1,500		
IRMCK371CT-ND	HP Sensorless OTP-Based Motor Control*	48-QFP	14.30	12.03	11.05
IRMCK371TR-ND	HP Sensorless OTP-Based Motor Control*	48-QFP	16576.00/2,000		
IRS2001PBF-ND	High and Low Side Driver*	8-Dip	1.95	1.58	1.42
IRS2003PBF-ND	Half-Bridge Driver*	8-Dip	1.95	1.58	1.42
IRS2003STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.28	1.76	1.60
IRS2003STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	2195.00/2,500		
IRS2004PBF-ND	Half-Bridge Driver*	8-Dip	1.95	1.58	1.42
IRS2004STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.28	1.76	1.60
IRS2004STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	2195.00/2,500		
IRS2101SPBF-ND	High and Low Side Driver*	8-SOIC	2.80	2.25	2.05
IRS2101STRPBFCT-ND	High and Low Side Driver*	8-SOIC	2.64	2.16	1.94
IRS2103PBF-ND	Half-Bridge Driver*	8-Dip	2.91	2.35	2.12
IRS2103SPBF-ND	Half-Bridge Driver*	8-SOIC	2.80	2.25	2.05
IRS2103STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.06	2.50	2.25
IRS2103STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3392.50/2,500		
IRS2104SPBF-ND	Half-Bridge Driver*	8-SOIC	2.80	2.25	2.05
IRS2106SPBF-ND	High and Low Side Driver*	8-SOIC	2.94	2.37	2.16
IRS2108PBF-ND	Half-Bridge Driver*	8-Dip	3.05	2.46	2.24
IRS2108STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.33	2.72	2.45
IRS2108STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3690.00/2,500		
IRS2110PBF-ND	High and Low Side Driver*	14-Dip	4.03	3.24	2.96
IRS2110SPBF-ND	High and Low Side Driver*	16-SOIC	4.20	3.38	3.08
IRS2110STRPBFCT-ND	High and Low Side Driver*	16-SOIC	4.56	3.73	3.35
IRS2110STRPBFTR-ND	High and Low Side Driver*	16-SOIC	2128.00/1,000		
IRS2111PBF-ND	Half-Bridge Driver*	8-Dip	2.97	2.39	2.18
IRS2111SPBF-ND	Half-Bridge Driver*	8-SOIC	3.11	2.50	2.28
IRS2113PBF-ND	High and Low Side Driver*	14-Dip	4.51	3.63	3.31
IRS2113SPBF-ND	High and Low Side Driver*	16-SOIC	4.65	3.74	3.41
IRS2113STRPBFCT-ND	High and Low Side Driver*	16-SOIC	5.07	4.15	3.72
IRS2113STRPBFTR-ND	High and Low Side Driver*	16-SOIC	2366.00/1,000		
IRS2117PBF-ND	Single Channel Driver*	8-Dip	2.73	2.20	1.98
IRS2117SPBF-ND	Single Channel Driver*	8-SOIC	2.73	2.20	1.98
IRS2118PBF-ND	Single Channel Driver*	8-Dip	2.73	2.20	1.98
IRS2118SPBF-ND	Single Channel Driver*	8-SOIC	2.73	2.20	1.98
IRS2123STRPBFCT-ND	Single Channel High Side Driver*	8-SOIC	2.84	2.19	1.99
IRS2123STRPBFTR-ND	Single Channel High Side Driver*	8-SOIC	2735.00/2,500		
IRS2124STRPBFCT-ND	Single Channel High Side Driver*	8-SOIC	2.84	2.19	1.99
IRS2124STRPBFTR-ND	Single Channel High Side Driver*	8-SOIC	2735.00/2,500		
IRS2127STRPBFCT-ND	Current Sensing Single-Channel Driver*	8-SOIC	3.05	2.46	2.24
IRS2127STRPBFTR-ND	Current Sensing Single-Channel Driver*	8-SOIC	3625.00/2,500		
IRS2128PBF-ND	Current Sensing Single-Channel Driver*	8-Dip	3.00	2.41	2.20
IRS2128STRPBFCT-ND	Current Sensing Single-Channel Driver*	8-SOIC	3.05	2.46	2.24
IRS2128STRPBFTR-ND	Current Sensing Single-Channel Driver*	8-SOIC	3625.00/2,500		
IRS2158DPBF-ND	Half-Bridge Driver* ***NEW!***	16-Dip	2.76	2.23	2.01
IRS2158DSPBF-ND	Half-Bridge Driver* ***NEW!***	16-SOIC	2.76	2.23	2.01
IRS2181PBF-ND	High and Low Side Driver*	8-Dip	3.36	2.70	2.46
IRS2181STRPBFCT-ND	High and Low Side Driver*	8-SOIC	3.81	3.12	2.80
IRS2181STRPBFTR-ND	High and Low Side Driver*	8-SOIC	4222.50/2,500		
IRS2183PBF-ND	Half-Bridge Driver*	8-Dip	3.36	2.70	2.46
IRS2186PBF-ND	High and Low Side Driver*	8-Dip	3.92	3.15	2.87
IRS2304PBF-ND	Half-Bridge Driver*	8-Dip	2.76	2.23	2.01
IRS2304SPBF-ND	Half-Bridge Driver*	8-SOIC	2.76	2.23	2.01
IRS2308PBF-ND	Half-Bridge Driver*	8-Dip	2.91	2.34	2.14
IRS2330DJTRPBFCT-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	7.55	6.27	5.70
IRS2330DJTRPBFTR-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	2209.00/500		
IRS2330JTRPBFCT-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	7.45	6.19	5.62
IRS2330JTRPBFTR-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	2178.00/500		
IRS2332DJTRPBFCT-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	7.55	6.27	5.70
IRS2332DJTRPBFTR-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	2209.00/500		
IRS2332JTRPBFCT-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	7.45	6.19	5.62
IRS2332JTRPBFTR-ND	High Voltage 3-Phase Bridge Driver*	44-PLCC	2178.00/500		
IRS2336DJTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	7.26	5.93	5.33
IRS2336DJTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	2008.50/500		
IRS2336DMTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	48-MLPQ	6.38	5.13	4.68
IRS2336DMTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	48-MLPQ	9096.00/3,000		
IRS2336DSTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	6.51	5.32	4.78
IRS2336DSTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	3038.00/1,000		
IRS2336JTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	7.11	5.81	5.22
IRS2336JTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	1967.00/500		
IRS2336STRPBFCT-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	5.91	4.75	4.33
IRS2336STRPBFTR-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	2954.00/1,000		
IRS2453DPBF-ND	Self-Oscillating Full-Bridge Driver*	14-Dip	3.92	3.15	2.87
IRS2453DSPBF-ND	Self-Oscillating Full-Bridge Driver*	14-SOIC	3.92	3.15	2.87
IRS2453DSTRPBFCT-ND	Self-Oscillating Full-Bridge Driver*	14-SOIC	3.68	3.01	2.70
IRS2541PBF-ND	600V, LED Buck Regulator*	8-Dip	2.76	2.23	2.01
IRS2541STRPBFCT-ND	600V, LED Buck Regulator*	8-SOIC	3.19	2.46	2.23
IRS2541STRPBFTR-ND	600V, LED Buck Regulator*	8-SOIC	3072.50/2,500		
IRS2607DSTRPBFCT-ND	High and Low Side Driver*	8-SOIC	2.98	2.30	2.09
IRS2607DSTRPBFTR-ND	High and Low Side Driver*	8-SOIC	2870.00/2,500		
IRS2608DSTRPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.98	2.30	2.09
IRS2608DSTRPBFTR-ND	Half-Bridge Driver*	8-SOIC	2870.00/2,500		
IRS2609DSPBF-ND	Half-Bridge Driver*	8-SOIC	2.57	2.08	1.87
IRS20955SPBF-ND	Protected Digital Audio Driver*	16-SOIC	5.60	4.50	4.10
IRS20957SPBF-ND	Protected Digital Audio Driver* ***NEW!***	16-SOIC	4.81	3.87	3.53
IRS21084PBF-ND	Half-Bridge Driver*	14-Dip	3.22	2.59	2.36
IRS21084SPBF-ND	Half-Bridge Driver*	14-SOIC	3.22	2.59	2.36
IRS21084STRPBFCT-ND	Half-Bridge Driver*	14-SOIC	3.51	2.87	2.58
IRS21084STRPBFTR-ND	Half-Bridge Driver*	14-SOIC	3890.00/2,500		
IRS21091STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	4.20	3.43	3.08
IRS21091STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	4655.00/2,500		
IRS21171STRPBFCT-ND	Single Channel High Side Driver*	8-SOIC	3.15	2.43	2.21
IRS21271STRPBFCT-ND	Current-Sensing Single Channel Driver*	8-SOIC	3.27	2.68	2.40

International IOR Rectifier Digi-Reel® *(Cont.)* CONTROL / POWER INTEGRATED CIRCUITS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
IRS21271STRPBFTR-ND	Current-Sensing Single Channel Driver*	8-SOIC	3625.00/2,500		
IRS21281PBF-ND	Current Sensing Single-Channel Driver*	8-Dip	3.00	2.41	2.20
IRS21281STRPBFCT-ND	Current-Sensing Single Channel Driver*	8-SOIC	3.05	2.46	2.24
IRS21281STRPBFTR-ND	Current-Sensing Single Channel Driver*	8-SOIC	3625.00/2,500		
IRS21531DPBF-ND	Self-Oscillating Half-Bridge Driver*	8-Dip	2.54	2.05	1.85
IRS21531DSTRPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	2.94	2.27	2.06
IRS21531DSTRPBFTR-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	2835.00/2,500		
IRS21814SPBF-ND	High and Low Side Driver*	14-SOIC	3.78	3.04	2.77
IRS21814STRPBFCT-ND	High and Low Side Driver*	14-SOIC	4.11	3.36	3.02
IRS21814STRPBFTR-ND	High and Low Side Driver*	14-SOIC	4555.00/2,500		
IRS21834SPBF-ND	Half-Bridge Driver*	14-SOIC	3.78	3.04	2.77
IRS21834STRPBFCT-ND	Half-Bridge Driver*	14-SOIC	4.11	3.36	3.02
IRS21834STRPBFTR-ND	Half-Bridge Driver*	14-SOIC	4555.00/2,500		
IRS21844SPBF-ND	Half-Bridge Driver*	14-SOIC	3.78	3.04	2.77
IRS21853STRPBFCT-ND	Dual High Side Driver*	16-SOIC	7.20	5.88	5.28
IRS21864PBF-ND	High and Low Side Driver*	14-Dip	4.65	3.74	3.41
IRS21864STRPBFCT-ND	High and Low Side Driver*	14-SOIC	5.04	4.12	3.70
IRS21864STRPBFTR-ND	High and Low Side Driver*	14-SOIC	5585.00/2,500		
IRS21953STRPBFCT-ND	Single High Side, Dual Low Side Driver*	16-SOIC	6.65	5.53	5.02
IRS23364DJTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	7.26	5.93	5.33
IRS23364DJTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	2008.50/500		
IRS23364DSTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	6.51	5.32	4.78
IRS23364DSTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	28-SOIC	3038.00/1,000		
IRS24531DSPBF-ND	Self-Oscillating Full-Bridge Driver* ***NEW!***	14-SOIC	3.92	3.15	2.87
IRS26302DJTRPBFCT-ND	3-Phase Bridge Plus One Gate Driver*	44-PLCC	7.42	6.16	5.60
IRS26302DJTRPBFTR-ND	3-Phase Bridge Plus One Gate Driver*	44-PLCC	2170.00/500		
IRS26310DJTRPBFCT-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	7.21	5.99	5.44
IRS26310DJTRPBFTR-ND	High Voltage 3-Phase Gate Driver*	44-PLCC	2108.00/500		
IPS1041LPBF-ND	Single Channel Intelligent Power Low Side Switch*	SOT-223	2.46	1.99	1.79
IPS1042GPBF-ND	Dual Channel Intelligent Power Low Side Switch*	8-SOIC	2.95	2.38	2.17
IPS1051LPBF-ND	Single Channel Intelligent Power Low Side Switch*	SOT-223	1.92	1.55	1.40
IPS1052GPBF-ND	Dual Channel Intelligent Power Low Side Switch*	8-SOIC	2.70	2.18	1.96
Switching ICs					
IPS1041RTRLPBFCT-ND	Intelligent Power Low Side Switch*	DPAK	2.87	2.46	2.01
IPS1041RTRLPBFTR-ND	Intelligent Power Low Side Switch*	DPAK	3321.00/3,000		
IPS2041LPBF-ND	Intelligent Power Low Side Switch*	SOT-223	2.34	1.89	1.70
IPS6011PBF-ND	Intelligent Power High Side Switch*	TO-220-5	6.69	5.38	4.90
IPS6011RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	6.18	4.97	4.53
IPS6011SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	6.59	5.30	4.83
IPS6021PBF-ND	Intelligent Power High Side Switch*	TO-220-5	4.60	3.70	3.38
IPS6021RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	3.81	3.06	2.79
IPS6021SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	4.70	3.78	3.45
IPS6031PBF-ND	Intelligent Power High Side Switch*	TO-220-5	3.90	3.14	2.86
IPS6031RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	3.29	2.65	2.41
IPS6031SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	3.96	3.19	2.91
IPS6041PBF-ND	Intelligent Power High Side Switch*	TO-220-5	3.36	2.70	2.46
IPS6041GPBF-ND	Intelligent Power High Side Switch*	8-SOIC	2.60	2.10	1.89
IPS6041RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	3.02	2.44	2.20
IPS6041STRLPBFCT-ND	Intelligent Power High Side Switch*	D2PAK	3.67	3.31	2.70
IPS6041STRLPBFTR-ND	Intelligent Power High Side Switch*	D2PAK	1468.00/800		
IPS7071GTRPBFCT-ND	Intelligent Power High Side Switch*	8-SOIC	3.45	3.11	2.53
IPS7071GTRPBFTR-ND	Intelligent Power High Side Switch*	8-SOIC	3825.00/2,500		
IPS7081PBF-ND	Intelligent Power High Side Switch*	TO-220-5	4.57	3.68	3.35
IPS7081RTRLPBFCT-ND	Intelligent Power High Side Switch*	DPAK	4.08	3.34	3.00
IPS7081RTRLPBFTR-ND	Intelligent Power High Side Switch*	DPAK	5427.00/3,000		
IPS7081STRLPBFCT-ND	Intelligent Power High Side Switch*	D2PAK	4.97	4.48	3.65
IPS7081STRLPBFTR-ND	Intelligent Power High Side Switch*	D2PAK	1987.20/800		
IPS7091PBF-ND	Intelligent Power High Side Switch*	TO-220-5	4.03	3.24	2.96
IPS7091GTRPBFCT-ND	Intelligent Power High Side Switch*	8-SOIC	3.17	2.59	2.33
IPS7091GTRPBFTR-ND	Intelligent Power High Side Switch*	8-SOIC	3507.50/2,500		
IPS7091STRLPBFCT-ND	Intelligent Power High Side Switch*	D2PAK	4.43	3.62	3.25
IPS7091STRLPBFTR-ND	Intelligent Power High Side Switch*	D2PAK	1771.20/800		
IR2156PBF-ND	600V, 0.5A Ballast Control*	14-Dip	2.95	2.38	2.14
IR2156SPBFCT-ND	600V, 0.5A Ballast Control*	14-SOIC	3.00	2.45	2.20
IR2156SPBFTR-ND	600V, 0.5A Ballast Control*	14-SOIC	3325.00/2,500		
IR2166PBF-ND	600V, 500mA PFC and Ballast Control*	16-Dip	3.25	2.61	2.38
IR3313PBF-ND	Programmable Current Sense High Side Switch*	TO-220	6.79	5.46	4.97
IR3314PBF-ND	Programmable Current Sense High Side Switch*	TO-220	5.53	4.45	4.05
IR3314SPBF-ND	Programmable Current Sense High Side Switch*	D2PAK-5	5.53	4.45	4.05
IR3315PBF-ND	Low EMI Current Sense High Side Switch*	TO-220	5.01	4.03	3.67
IR3315SPBF-ND	Low EMI Current Sense High Side Switch*	D2PAK-5	5.04	4.05	3.69
IR3316PBF-ND	Low EMI Current Sense High Side Switch* ***NEW!***	TO-220-5	5.75	4.63	4.22
IRS2166DSPBF-ND	600V, PFC/Ballast Control*	16-SOIC	3.33	2.68	2.44
IRS2530DPBF-ND	DIM8™ Dimming Ballast Control*	8-Dip	2.42	1.95	1.76
IRS2530DSTRPBFCT-ND	DIM8™ Dimming Ballast Control*	8-SOIC	2.51	2.03	1.83
IRS2530DSTRPBFTR-ND	DIM8™ Dimming Ballast Control*	8-SOIC	2735.00/2,500		
IRS2552DPBF-ND	CCFL/EEFL Ballast Control*	16-Dip	3.86	3.11	2.83
IRS2552DSTRPBFCT-ND	CCFL/EEFL Ballast Control*	16-SOIC	4.23	3.46	3.11
IRS2552DSTRPBFTR-ND	CCFL/EEFL Ballast Control*	16-SOIC	4687.50/2,500		
Audio Controllers — RoHS Compliant					
IRS2092PBF-ND	Digital Audio Amplifier	16-Dip	5.69	4.58	4.17
IRS2092STRPBFCT-ND	Digital Audio Amplifier	16-SOIC	6.10	4.98	4.48
IRS2092STRPBFTR-ND	Digital Audio Amplifier	16-SOIC	6757.50/2,500		
Reference Design Kits					
IRADK31-ND	1/4 HP DC Brushless Motor using IR31xx Design Kit	—	361.05	—	—
IRAUDAMP5-ND	2-Ch. 120W Class D Audio Power Amp for IRS2092S/IRF6645*	—	337.50	—	—
IRAUDAMP7S-ND	2-Ch. 25W~500W Class D Audio Power Amp for IRS2092S* ***NEW!***	—	217.50	—	—
IRDC3065-ND	Design Kit for LP On Board Switching Regulators	—	285.78	—	—
IRDC3621-ND	Ref. Board Designed for Dual Output Configuration	—	282.75	—	—
IRDC3637-ND	Ref. Board for 1.8V Output using 5V, 12V Supplies	—	253.75	—	—
IRDC5001-LS48V-ND	OR-ing Demo Board Demonstrates the IR5001 Functions	—	222.54	—	—
IRPLCFL8U-ND	Ref. Design Kit for IRS2530D Fluorescent Ballast	—	150.98	—	—
IRPLDIM3-ND	Ref. Design Kit for IRS2158D Dimming Fluorescent Ballast	—	217.50	—	—
IRPLDIM5E-ND	Ref. Design Kit for IRS2530D 4 Level Fluorescent Ballast	—	150.98	—	—

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* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

International Rectifier Digi-Reel® *(Cont.)*

CONTROL / POWER INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IRPP3637-12A-ND	Ref. Design Kit for IR3637SPBF Sync. Buck Applications	—	174.00	—	—

International Rectifier Digi-Reel®

LDO REGULATORS/ SWITCHING CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IR2167S-ND	PFC Ballast Control IC	20-SOIC	5.80	4.76	4.29
IR3088AMTRPBFCT-ND	XPHASE™ IC with Fault and Overtemp Detect*	20L-MLPQ	4.05	3.31	2.97
IR3088AMTRPBFTR-ND	XPHASE™ IC with Fault and Overtemp Detect*	20L-MLPQ	5388.00/3,000		
IR3500AMTRPBFCT-ND	XPHASE3™ AMD PVID Control IC*	32-MLPQ	5.60	4.50	4.10
IR3500AMTRPBFTR-ND	XPHASE3™ AMD PVID Control IC*	32-MLPQ	7980.00/3,000		
IR3500MTRPBFCT-ND	XPHASE3™ PVID Control IC*	32-MLPQ	5.46	4.39	4.00
IR3500MTRPBFTR-ND	XPHASE3™ PVID Control IC*	32-MLPQ	7782.00/3,000		
IR3502MTRPBFCT-ND	XPHASE3™ Control IC*	32-MLPQ	5.85	4.78	4.29
IR3502MTRPBFTR-ND	XPHASE3™ Control IC*	32-MLPQ	7782.00/3,000		
IR3505MTRPBFCT-ND	XPHASE3™ Phase Control IC*	16-MLPQ	4.62	3.72	3.39
IR3505MTRPBFTR-ND	XPHASE3™ Phase Control IC*	16-MLPQ	6585.00/3,000		
IR3507MTRPBFCT-ND	XPHASE3™ Phase Control IC*	20-MLPQ	5.04	4.12	3.70
IR3507MTRPBFTR-ND	XPHASE3™ Phase Control IC*	20-MLPQ	6702.00/3,000		
IR3510MTRPBFCT-ND	XPHASE™ Hot-Swap N+1 Redundant Control IC*	32-MLPQ	30.00	25.50	23.63
IR3510MTRPBFTR-ND	XPHASE™ Hot-Swap N+1 Redundant Control IC*	32-MLPQ	56700.00/3,000		
IR3514MTRPBFCT-ND	XPHASE3™ AMD Hybrid Control IC*	40-MLPQ	6.64	5.34	4.86
IR3514MTRPBFTR-ND	XPHASE3™ AMD Hybrid Control IC*	40-MLPQ	9456.00/3,000		
IR3621FCT-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	3.76	3.07	2.76
IR3621FTR-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	4822.50/2,500		
IR3621FTRPBFCT-ND	2-Phase, Dual Sync. PWM Controller*	28-TSSOP	3.50	2.82	2.57
IR3621FTRPBFTR-ND	2-Phase, Dual Sync. PWM Controller*	28-TSSOP	4157.50/2,500		
IR3621MCT-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	3.76	3.07	2.76
IR3621MTR-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	5787.00/3,000		
IR3628MTRPBFCT-ND	High Frequency Sync. PWM Buck Cont.*	12-MLPD	2.17	1.75	1.58
IR3628MTRPBFTR-ND	High Frequency Sync. PWM Buck Cont.*	12-MLPD	2835.00/3,000		
IR3629AMTRPBFCT-ND	High Frequency Sync. PWM Buck Cont.*	12-MLP	2.17	1.75	1.58
IR3629AMTRPBFTR-ND	High Frequency Sync. PWM Buck Cont.*	12-MLP	2835.00/3,000		
IR3629MTRPBFCT-ND	High Frequency Sync. PWM Buck Cont.*	12-MLP	2.45	1.89	1.72
IR3629MTRPBFTR-ND	High Frequency Sync. PWM Buck Cont.*	12-MLP	2835.00/3,000		
IR3638STRPBFCT-ND	High Frequency Sync. PWM Buck Cont.*	14-SOIC	1.75	1.35	1.23
IR3638STRPBFTR-ND	High Frequency Sync. PWM Buck Cont.*	14-SOIC	1687.50/2,500		
IR3721MTRPBFCT-ND	Power Monitor IC with Analog Output*	10-DFN	2.94	2.37	2.16
IR3721MTRPBFTR-ND	Power Monitor IC with Analog Output*	10-DFN	4191.00/3,000		
IR3800AMTRPBFCT-ND	Highly Integrated 14A Sync. Buck Regulator*	56-PQFN	4.45	3.58	3.26
IR3800AMTRPBFTR-ND	Highly Integrated 14A Sync. Buck Regulator*	56-PQFN	8460.00/4,000		
IR3800MTRPBFCT-ND	Highly Integrated 12A Sync. Buck Regulator*	56-PQFN	4.54	3.65	3.33
IR3800MTRPBFTR-ND	Highly Integrated 12A Sync. Buck Regulator*	56-PQFN	8620.00/4,000		
IR3801AMTRPBFCT-ND	Highly Integrated 9A Sync. Buck Regulator*	56-PQFN	3.19	2.57	2.34
IR3801AMTRPBFTR-ND	Highly Integrated 9A Sync. Buck Regulator*	56-PQFN	6064.00/4,000		
IR3801MTRPBFCT-ND	Highly Integrated 7A Sync. Buck Regulator*	56-PQFN	3.25	2.61	2.38
IR3801MTRPBFTR-ND	Highly Integrated 7A Sync. Buck Regulator*	56-PQFN	6172.00/4,000		
IR3802AMTRPBFCT-ND	Highly Integrated 6A Sync. Buck Regulator*	56-PQFN	3.16	2.55	2.32
IR3802AMTRPBFTR-ND	Highly Integrated 6A Sync. Buck Regulator*	56-PQFN	6012.00/4,000		
IR3802MTRPBFCT-ND	Highly Integrated 4A Sync. Buck Regulator*	56-PQFN	3.45	2.82	2.53
IR3802MTRPBFTR-ND	Highly Integrated 4A Sync. Buck Regulator*	56-PQFN	6120.00/4,000		
IR3810MTRPBFCT-ND	Highly Integrated 12A Sync. Buck Regulator*	15-QFN	4.82	3.87	3.53
IR3810MTRPBFTR-ND	Highly Integrated 12A Sync. Buck Regulator*	15-QFN	9152.00/4,000		
IR3811MTRPBFCT-ND	Highly Integrated 7A Sync. Buck Regulator*	15-QFN	3.44	2.77	2.53
IR3811MTRPBFTR-ND	Highly Integrated 7A Sync. Buck Regulator*	15-QFN	6544.00/4,000		
IR3812MTRPBFCT-ND	Highly Integrated 4A Sync. Buck Regulator*	15-QFN	3.36	2.70	2.46
IR3812MTRPBFTR-ND	Highly Integrated 4A Sync. Buck Regulator*	15-QFN	6384.00/4,000		
IR3820AMTRPBFCT-ND	Highly Integrated 14A Sync. Buck Regulator*	15-QFN	4.68	3.76	3.43
IR3820AMTRPBFTR-ND	Highly Integrated 14A Sync. Buck Regulator*	15-QFN	8884.00/4,000		
IR3820MTRPBFCT-ND	Highly Integrated 12A Sync. Buck Regulator*	15-QFN	4.82	3.87	3.53
IR3820MTRPBFTR-ND	Highly Integrated 12A Sync. Buck Regulator*	15-QFN	9152.00/4,000		
IR3821AMTRPBFCT-ND	Highly Integrated 9A Sync. Buck Regulator*	15-QFN	3.39	2.73	2.49
IR3821AMTRPBFTR-ND	Highly Integrated 9A Sync. Buck Regulator*	15-QFN	6436.00/4,000		
IR3821MTRPBFCT-ND	Highly Integrated 7A Sync. Buck Regulator*	15-QFN	3.69	3.02	2.71
IR3821MTRPBFTR-ND	Highly Integrated 7A Sync. Buck Regulator*	15-QFN	6544.00/4,000		
IR3822AMTRPBFCT-ND	Highly Integrated 6A Sync. Buck Regulator*	15-QFN	3.30	2.66	2.42
IR3822AMTRPBFTR-ND	Highly Integrated 6A Sync. Buck Regulator*	15-QFN	6276.00/4,000		
IR3822MTRPBFCT-ND	Highly Integrated 4A Sync. Buck Regulator*	15-QFN	3.36	2.70	2.46
IR3822MTRPBFTR-ND	Highly Integrated 4A Sync. Buck Regulator*	15-QFN	6384.00/4,000		
IR3831MTR1PBFCT-ND	Highly Integrated 8A Sync. Buck Regulator*	5x6PQFN	3.90	3.19	2.86
IR3831MTR1PBFTR-ND	Highly Integrated 8A Sync. Buck Regulator*	5x6PQFN	1462.50/750		
IR3840MTR1PBFCT-ND	Highly Integrated 12A Sync. Buck Reg*	5x6PQFN	5.25	4.29	3.85
IR3840MTR1PBFTR-ND	Highly Integrated 12A Sync. Buck Reg.*	5x6PQFN	1968.75/750		
IR3841MTR1PBFCT-ND	Highly Integrated 8A Sync. Buck Regulator*	5x6PQFN	3.90	3.19	2.86
IR3841MTR1PBFTR-ND	Highly Integrated 8A Sync. Buck Regulator*	5x6PQFN	1462.50/750		
IR3842MTR1PBFCT-ND	Highly Integrated 4A Sync. Buck Regulator*	5x6PQFN	3.60	2.94	2.64
IR3842MTR1PBFTR-ND	Highly Integrated 4A Sync. Buck Regulator*	5x6PQFN	1350.00/750		
IR3870MTR1PBFCT-ND	Highly Integrated 10A Sync. Buck Reg.* ***NEW!***	5x6PQFN	3.15	2.43	2.21
IR3870MTR1PBFTR-ND	Highly Integrated 10A Sync. Buck Reg.* ***NEW!***	5x6PQFN	1063.50/750		
IRU1010CP-ND	1.0A, Adjustable Low Dropout Regulator	2-Pin Power Flex	1.26	1.02	.89
IRU1015CMCT-ND	1.5A Low Dropout Positive Adjustable Regulator	TO-263	2.05	1.59	1.44
IRU1050CM-ND	5.0A, Adjustable Regulator	TO-263	1.82	1.47	1.32
IRU1050CT-ND	5.0A, Adjustable Regulator	TO-220	1.88	1.52	1.37
IRU1050-33CT-ND	3.3V, 5.0A Low Dropout Regulator	TO-220	1.88	1.52	1.37
IRU1075CMTR-ND	7.5A, Adjustable Low Dropout Regulator	TO-263	651.75/750		
IRU1117CD-ND	800mA Low Dropout Positive Adjustable Regulator	TO-252	1.34	1.09	.98
IRU1117-18CP-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	Ultra Thin-Pak	1.26	1.02	.89
IRU1117-25CD-ND	800mA Low Dropout Positive Fixed 2.5V Regulator	TO-252	1.34	1.09	.98
IRU1160CPTR-ND	6.0A, Adjustable Regulator	5-Pin Power Flex	2336.00/2,000		
IRU3033CSTR-ND	Pulse Width Modulation Switcher/Linear Controller	8-SOIC(N)	2655.00/2,500		
IRU3034CS-ND	PWM Switcher/Cont. with Short Circuit Protection	8-SOIC	2.35	1.90	1.71
IRU3034CSTR-ND	PWM Switcher/Cont. with Short Circuit Protection	8-SOIC	2655.00/2,500		
IRU3037CSPBFCT-ND	Synchronous PWM Controller*	8-SOIC	2.38	1.84	1.67
IRU3038CF-ND	Synchronous PWM Controller	14-TSSOP	1.76	1.43	1.29
IRU3038CS-ND	Synchronous PWM Controller	14-SOIC	1.50	1.22	1.10
IRU3038CSTR-ND	Synchronous PWM Controller	14-SOIC	2035.50/2,500		
IRU3046CFCT-ND	Dual Synchronous PWM Controller	24-TSSOP	3.08	2.52	2.27
IRU3047CWCT-ND	Dual Synchronous PWM Controller	20-SOIC	3.27	2.18	1.86
IRU3047CWTR-ND	Dual Synchronous PWM Controller	20-SOIC	1317.70/1,000		
IRU3048CFCT-ND	Dual Synchronous PWM Controller	16-TSSOP	2.88	2.35	2.11
IRU3048CSCT-ND	Dual Synchronous PWM Controller	16-SOIC	2.69	2.21	1.98

International Rectifier Digi-Reel® *(Cont.)*

LDO REGULATORS/ SWITCHING CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
IRU3055CQCT-ND	5-Bit Programmable 3-Phase Sync. Buck Controller	36-QSOP	4.71	3.14	2.67
IRU3055CQTR-ND	5-Bit Programmable 3-Phase Sync. Buck Controller	36-QSOP	2846.96/1,500		
IRU3146CFCT-ND	Dual Synchronous PWM Controller	28-TSSOP	4.79	3.92	3.52
IRU3146CFTR-ND	Dual Synchronous PWM Controller	28-TSSOP	5457.50/2,500		

EPSON Digi-Reel®

APPLICATION SPECIFIC/ INTEGRATED CIRCUITS

Our LCD controllers feature high-performance, low power consumption. These LCD controllers can be used on a variety of CPUs. The product line up supports a wide range of LCD panels, including those from small to large scale and those from monochrome to color.

Graphics

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
S1D13A04B00B200-ND	112K Byte Embedded Memory LCD/USB Companion	121-PFBGA	10.38	—	—
S1D13A04F00A-ND	112K Byte Embedded Memory LCD/USB Companion*	128-TQFP	16.50	14.15	12.55
S1D13A05B00B200-ND	256K Byte Embedded Memory LCD/USB Companion	121-PFBGA	15.32	14.30	13.58
S1D13506F00A200-ND	Color CRT/LCD/TV Controller, 64K Colors	128-QFP	15.63	13.40	11.88
S1D13513F01A100-ND	Graphic LCD Controller*	208-QFP	16.21	13.89	12.32
S1D13706F00A200-ND	80K Byte Embedded Memory LCD Controller	100-TQFP	17.12	14.67	13.01
S1D13700F02A100-ND	32K Byte Embedded Memory B/W STN LCDC*	64-TQFP	8.37	7.17	6.36

Graphic Evaluations

Digi-Key Part No.	Description	Pkg.	1	25	100
S5U13A03P00C000-ND	SED13A3F0A Evaluation Board	—	462.00	—	—
S5U13U00P00C100-ND	USB Board Adapter for S5U13513P00C*	—	786.00	—	—
S5U13706P00C000-ND	SED1376F0A Evaluation Board	—	512.05	—	—

The Application Specific Standard Product line-up includes ICs for high-speed serial interfaces, such as USB 2.0 and USB OTG, as well as the network controller family of products, which uses TCP/IP protocol to monitor and communicate between different hubs.

USB OTG Controller

Digi-Key Part No.	Description	Pkg.	1	25	100
S1R72005F00A100-ND	USB OTG Controller and PHY	64-QFP	5.95	—	—
S1R720G0F00A000-ND	USB 2.0 PHY	64-QFP	8.16	—	—

Network Controllers

Digi-Key Part No.	Description	Pkg.	1	25	100
S1S65000F00A100-ND	Web Camera IC	128-QFP	14.40	—	—

Power ICs

The Power Supply ICs include DC to DC Converters and Voltage Regulators, High Precision Voltage Detectors and Regulators, Power Supply ICs for passive and active LCDs, and Power Supply ICs for Logic Switching Regulators.

Digi-Key Part No.	Description	Pkg.	1	25	100
S1F75510M0A010BCT-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	4.95	3.96	3.08
S1F81150F0A2000-ND	System Power Supply - 6 Channel Regulator, Suitable for Intel Xscale	48-QFP	4.26	—	—

MAXIM INNOVATION DELIVERED™ Digi-Reel®

AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ICL7611ACPA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-Dip	13.32	8.88	6.43
ICL7611BCSA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	5.73	3.82	2.76
ICL7611DCSA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	4.77	3.18	2.30
ICL7612BCSA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	5.64	3.76	2.72
ICL7612BESA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	8.46	5.64	4.08
ICL7612DCSA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	5.01	3.34	2.42
ICL7612DESA+-ND	Single, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	7.62	5.08	3.68
ICL7621BCPA+-ND	Dual, Low Power CMOS Op Amp* ***NEW!***	8-Dip	7.53	5.02	3.63
ICL7621BCSA+-ND	Dual, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	8.25	5.50	3.98
ICL7621DCSA+-ND	Dual, Low Power CMOS Op Amp* ***NEW!***	8-SOIC	3.24	2.16	1.56
ICL7622DCPD+-ND	Dual, Low Power CMOS Op Amp* ***NEW!***	14-Dip	4.71	3.14	2.27
ICL7631ECSE+-ND	Triple, Low Power CMOS Op Amp* ***NEW!***	16-SOIC	5.64	3.76	2.72
ICL7641ECPD+-ND	Quad, Low Power CMOS Op Amp*	14-Dip	4.83	3.22	2.33
MAX407CPA+-ND	1.2µA Max, Dual, Single Supply Op Amp*	8-Dip	8.94	5.96	4.32
LMX321AUK+TCT-ND	Single Low Voltage R/R Output Op Amp* ***NEW!***	SOT-23-5	.77	.58	.51
LMX321AUK+TTR-ND	Single Low Voltage R/R Output Op Amp* ***NEW!***	SOT-23-5	906.25/2,500		
LMX321AXK+TCT-ND	Single Low Voltage R/R Output Op Amp* ***NEW!***	SC70-5	.77	.58	.51
LMX321AXK+TTR-ND	Single Low Voltage R/R Output Op Amp* ***NEW!***	SC70-5	906.25/2,500		
LMX324ASD+-ND	Quad Low Voltage R/R Output Op Amp* ***NEW!***	14-SOIC	1.26	.84	.60
LMX324AUD+-ND	Quad Low Voltage R/R Output Op Amp* ***NEW!***	14-TSSOP	1.26	.84	.60
LMX331AUK+TCT-ND	Single Low Voltage Comparator* ***NEW!***	SOT-23-5	.66	.50	.44
LMX331AUK+TTR-ND	Single Low Voltage Comparator* ***NEW!***	SOT-23-5	781.25/2,500		
LMX331AXK+TCT-ND	Single Low Voltage Comparator* ***NEW!***	SC70-5	.61	.46	.41
LMX331AXK+TTR-ND	Single Low Voltage Comparator* ***NEW!***	SC70-5	718.75/2,500		
LMX331HAUK+TCT-ND	Single Low Voltage Comparator* ***NEW!***	SOT-23-5	.69	.52	.46
LMX331HAUK+TTR-ND	Single Low Voltage Comparator* ***NEW!***	SOT-23-5	812.50/2,500		
LMX331HAXK+TCT-ND	Single Low Voltage Comparator* ***NEW!***	SC70-5	.74	.56	.49
LMX331HAXK+TTR-ND	Single Low Voltage Comparator* ***NEW!***	SC70-5	875.00/2,500		
LMX339ASD+-ND	Quad Low Voltage Comparator* ***NEW!***	14-SOIC	1.38	.92	.66
LMX339HASD+-ND	Quad Low Voltage Comparator* ***NEW!***	14-SOIC	1.47	.98	.71
LMX339HAUD+-ND	Quad Low Voltage Comparator* ***NEW!***	14-TSSOP	1.47	.98	.71
LMX358AKA+TCT-ND	Dual Low Voltage R/R Output Op Amp* ***NEW!***	SOT-23-8	1.30	.98	.86
LMX358AKA+TTR-ND	Dual Low Voltage R/R Output Op Amp* ***NEW!***	SOT-23-8	1531.25/2,500		
LMX358ASA+-ND	Dual Low Voltage R/R Output Op Amp* ***NEW!***	8-SOIC	1.02	.68	.49
LMX358AUA+-ND	Dual Low Voltage R/R Output Op Amp* ***NEW!***	8-µMAX	1.32	.88	.63
LMX393AKA+TCT-ND	Dual Low Voltage Comparator* ***NEW!***	SOT-23-8	.82	.62	.55
LMX393AKA+TTR-ND	Dual Low Voltage Comparator* ***NEW!***	SOT-23-8	968.75/2,500		
LMX393AUA+-ND	Dual Low Voltage Comparator* ***NEW!***	8-µMAX	1.02	.68	.49
LMX393HAKA+TCT-ND	Dual Low Voltage Comparator* ***NEW!***	SOT-23-8	.90	.68	.60
LMX393HAKA+TTR-ND	Dual Low Voltage Comparator* ***NEW!***	SOT-23-8	1062.50/2,500		
LMX393HAUA+-ND	Dual Low Voltage Comparator* ***NEW!***	8-µMAX	1.11	.74	.53
MAX406AEPA+-ND	Single, 1.2µA Single Supply Op Amp* ***NEW!***	8-Dip	14.01	9.34	6.77
MAX406BCSA+-ND	Single, 1.2µA Single Supply Op Amp* ***NEW!***	8-SOIC	5.07	3.38	2.45
MAX406BESA+-ND	Single, 1.2µA Single Supply Op Amp* ***NEW!***	8-SOIC	7.02	4.68	3.39
MAX407CSA+-ND	Dual, 1.2µA Single Supply Op Amp*	8-SOIC	8.94	5.96	4.32
MAX407ESA+-ND	Dual, 1.2µA Single Supply Op Amp* ***NEW!***	8-SOIC	12.18	8.12	5.88
MAX409BCPA-ND	Single, 1.2µA Single Supply Op Amp	8-Dip	4.88	3.68	2.37
MAX409BCSA+-ND	Single, 1.2µA Single Supply Op Amp*	8-SOIC	5.52	3.68	2.66
MAX409BESA+-ND	Single, 1.2µA Single Supply Op Amp* ***NEW!***	8-SOIC	7.65	5.10	3.69
MAX410CSA+-ND	Single, 28MHz Low Voltage Precision Op Amp*	8-SOIC	6.57	4.38	3.17
MAX410ESA+-ND	Single, 28MHz Low Voltage Precision Op Amp* ***NEW!***	8-SOIC	7.56	5.04	3.65
MAX412CPA+-ND	Dual, 28MHz Low Voltage Precision Op Amp* ***NEW!***	8-Dip	8.79	5.86	4.24
MAX412CSA+-ND	Dual, 28MHz Low Voltage Precision Op Amp* ***NEW!***	8-SOIC	8.79	5.86	4.24
MAX412EPA+-ND	Dual, 28MHz Low Voltage Precision Op Amp* ***NEW!***	8-Dip	10.41	6.94	5.03
MAX412ESA+-ND	Dual, 28MHz Low Voltage Precision Op Amp*	8-SOIC	10.41	6.94	5.03
MAX414BESD+-ND	Quad, 28MHz Low Voltage Precision Op Amp* ***NEW!***	14-SOIC	6.71	9.26	6.71
MAX414CPD+-ND	Quad, 28MHz Low Voltage Precision Op Amp*	14-Dip	14.04	9.36	6.78
MAX414CSD+-ND	Quad, 28MHz Low Voltage Precision Op Amp*	14-SOIC	14.04	9.36	6.78
MAX414ESD+-ND	Quad, 28MHz Low Voltage Precision Op Amp* ***NEW!***	14-SOIC	16.11	10.74	7.78
MAX417ESA+-ND	Dual, 1.2µA Single Supply Op Amp* ***NEW!***	8-SOIC	11.52	7.68	5.56
MAX418CPD+-ND	1.2µA Quad Single Supply Op Amp*	14-Dip	11.28	7.52	5.45
MAX418ESD+-ND	Quad, 1.2µA Single Supply Op Amp* ***NEW!***	14-SOIC	14.10	9.40	6.81

** RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX419ESD+-ND	Quad, 1.2µA Single Supply Op Amp* ***NEW!***	14-SOIC	14.10	9.40	6.81
MAX452CPA-ND	50MHz CMOS Video Amplifier	8-Dip	6.76	5.10	3.06
MAX452CPA+-ND	50MHz CMOS Video Amplifier*	8-Dip	7.65	5.10	3.69
MAX453CPA+-ND	2-Channel 50MHz Video Multiplexer/Amp*	8-Dip	10.68	7.12	5.16
MAX454CPD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-Dip	14.25	9.50	6.88
MAX454CSD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-SOIC	15.69	10.46	7.58
MAX455CPP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-Dip	20.96	15.82	10.56
MAX455CPP+-ND	8-Channel 50MHz Video Multiplexer/Amp*	20-Dip	23.73	15.82	11.46
MAX455CWP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-SOIC	23.06	17.40	11.60
MAX471CSA-ND	High-Side Current-Sense Precision Amp	8-SOIC	6.20	4.68	2.75
MAX479CSD+-ND	17µA Max Quad Single Supply Precision Op Amp*	14-SOIC	7.90	5.96	3.83
MAX492CPA+-ND	Single Supply Dual Op Amp*	8-Dip	6.30	4.20	3.04
MAX492CSA+-ND	Single Supply Dual Op Amp*	8-SOIC	6.30	4.20	3.04
MAX492EPA+-ND	Single Supply Dual Op Amp* ***NEW!***	8-Dip	7.89	5.26	3.81
MAX492ESA+-ND	Single Supply Dual Op Amp*	8-SOIC	7.89	5.26	3.81
MAX494CPD+-ND	Single Supply Quad Op Amp*	14-Dip	10.11	6.74	4.88
MAX494CSD+-ND	Single Supply Quad Op Amp*	14-SOIC	10.11	6.74	4.88
MAX494ESD+-ND	Single Supply Quad Op Amp*	14-SOIC	12.63	8.42	6.10
MAX495CPA-ND	Single Supply Op Amp	8-Dip	4.05	2.70	1.95
MAX495CPA+-ND	Single Supply Op Amp*	8-Dip	4.05	2.70	1.95
MAX495CSA+-ND	Single Supply Op Amp*	8-SOIC	4.05	2.70	1.95
MAX516ACWG+-ND	Quad Comparator with Prog. Threshhold* ***NEW!***	24-SOIC	10.86	7.24	5.24
MAX516AEWG+-ND	Quad Comparator with Prog. Threshhold* ***NEW!***	24-SOIC	13.53	9.02	6.53
MAX516BCWG+-ND	Quad Comparator with Prog. Threshhold* ***NEW!***	24-SOIC	8.13	5.42	3.92
MAX901ACSE+-ND	Quad High Speed, Low Power Voltage Comparator* ***NEW!***	16-SOIC	22.92	15.28	11.07
MAX901AESE+-ND	Quad High Speed, Low Power Voltage Comparator* ***NEW!***	16-SOIC	20.64	16.39	12.90
MAX901BCSE+-ND	Quad High Speed, Low Power Voltage Comparator*	16-SOIC	14.04	9.36	6.78
MAX901BESE+-ND	Quad High Speed, Low Power Voltage Comparator* ***NEW!***	16-SOIC	20.04	13.36	9.68
MAX902CSD+-ND	Dual High Speed, Low Power Voltage Comparator*	14-SOIC	11.61	7.74	5.61
MAX902ESD+-ND	Dual High Speed, Low Power Voltage Comparator*	14-SOIC	16.71	11.14	8.07
MAX903CPA+-ND	Single High Speed, Low Power Voltage Comparator* ***NEW!***	8-Dip	8.94	5.96	4.32
MAX903CSA+-ND	Single High Speed, Low Power Voltage Comparator*	8-SOIC	9.06	6.04	4.37
MAX903EPA+-ND	Single High Speed, Low Power Voltage Comparator* ***NEW!***	8-Dip	12.63	8.42	6.10
MAX903ESA+-ND	Single High Speed, Low Power Voltage Comparator*	8-SOIC	14.01	9.34	6.77
MAX907CPA+-ND	Dual High Speed, Ultra Low Power, TTL Comparator*	8-Dip	4.83	3.22	2.33
MAX907CSA+-ND	Dual High Speed Ultra Low Power, TTL Comparator*	8-SOIC	4.83	3.22	2.33
MAX907EPA+-ND	Dual High Speed Ultra Low Power, TTL Comparator* ***NEW!***	8-Dip	5.76	3.84	2.78
MAX907ESA+-ND	Dual High Speed Ultra Low Power, TTL Comparator*	8-SOIC	5.76	3.84	2.78
MAX908CPD+-ND	Quad High Speed Ultra Low Power, TTL Comparator*	14-Dip	8.40	5.60	4.06
MAX908CSD+-ND	Quad High Speed Ultra Low Power, TTL Comparator* ***NEW!***	14-SOIC	8.40	5.60	4.06
MAX908ESD+-ND	Quad High Speed Ultra Low Power, TTL Comparator* ***NEW!***	14-SOIC	9.45	6.30	4.56
MAX912CPE+-ND	Dual, Ultra-Fast, LP Precision TTL Comparator* ***NEW!***	16-Dip	11.04	7.36	5.33
MAX912CSE+-ND	Dual, Ultra-Fast, LP Precision TTL Comparator*	16-SOIC	11.04	7.36	5.33
MAX912ESE+-ND	Dual, Ultra-Fast, LP Precision TTL Comparator*	16-SOIC	14.31	9.54	6.91
MAX913CPA+-ND	Single, Ultra-Fast, LP Precision TTL Comparator*	8-Dip	7.23	4.82	3.49
MAX913CSA+-ND	Single, Ultra-Fast, LP Precision TTL Comparator*	8-SOIC	7.20	4.80	3.48
MAX913EPA+-ND	Single, Ultra-Fast, LP Precision TTL Comparator* ***NEW!***	8-Dip	9.39	6.26	4.53
MAX913ESA+-ND	Single, Ultra-Fast, LP Precision TTL Comparator*	8-SOIC	9.39	6.26	4.53
MAX913EUA+-ND	Single, Ultra-Fast, LP Precision TTL Comparator* ***NEW!***	8-µMAX	9.39	6.26	4.53
MAX917EUK+TCT-ND	Single, 1.8V Nanopower Comparator with Ref.* ***NEW!***	SOT-23-5	3.21	2.42	2.12
MAX917EUK+TTR-ND	Single, 1.8V Nanopower Comparator with Ref.* ***NEW!***	SOT-23-5	3781.25/2,500		
MAX918EUK+TCT-ND	Single, 1.8V Nanopower Comparator with Ref.* ***NEW!***	SOT-23-5	3.21	2.42	2.12
MAX918EUK+TTR-ND	Single, 1.8V Nanopower Comparator with Ref.* ***NEW!***	SOT-23-5	3781.25/2,500		
MAX918ESA+-ND	Single, 1.8V Nanopower Comparator with Ref.* ***NEW!***	8-SOIC	2.70	1.80	1.30
MAX919ESA+-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	8-SOIC	1.86	1.24	.89
MAX919EUK+TCT-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	SOT-23-5	2.20	1.66	1.46
MAX919EUK+TTR-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	SOT-23-5	2593.75/2,500		
MAX920ESA+-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	8-SOIC	1.86	1.24	.89
MAX920EUK+TCT-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	SOT-23-5	2.20	1.66	1.46
MAX920EUK+TTR-ND	Single, 1.8V Nanopower Comparator* ***NEW!***	SOT-23-5	2593.75/2,500		
MAX921CPA+-ND	Single Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	4.47	2.98	2.16
MAX921CSA+-ND	Single Ultra Low Power Comparator with Ref.*	8-SOIC	4.50	3.00	2.17
MAX921CUA+-ND	Single Ultra Low Power Comparator with Ref.* ***NEW!***	8-µMAX	4.83	3.22	2.33
MAX921EPA+-ND	Single Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	5.22	3.48	2.52
MAX922CSA+-ND	Dual Ultra Low Power Comparator*	8-SOIC	4.26	2.84	2.05
MAX922ESA+-ND	Dual Ultra Low Power Comparator* ***NEW!***	8-SOIC	5.34	3.56	2.58
MAX923CPA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	5.52	3.68	2.66
MAX923CSA+-ND	Dual Ultra Low Power Comparator with Ref.*	8-SOIC	5.52	3.68	2.66
MAX923CUA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-µMAX	5.97	3.98	2.88
MAX923EPA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	7.26	4.84	3.50
MAX923ESA+-ND	Dual Ultra Low Power Comparator with Ref.*	8-SOIC	7.26	4.84	3.50
MAX924CSE+-ND	Quad Ultra Low Power Comparator with Ref.*	16-SOIC	6.39	4.26	3.08
MAX924ESE+-ND	Quad Ultra Low Power Comparator with Ref.*	16-SOIC	8.31	5.54	4.01
MAX931CPA+-ND	Single Ultra Low Power Comparator with Ref.*	8-Dip	2.79	1.86	1.34
MAX931CSA+-ND	Single Ultra Low Power Comparator with Ref.*	8-SOIC	2.79	1.86	1.34
MAX931CUA+-ND	Single Ultra Low Power Comparator with Ref.* ***NEW!***	8-µMAX	3.27	2.18	1.58
MAX931EPA+-ND	Single Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	3.27	2.18	1.58
MAX931ESA+-ND	Single Ultra Low Power Comparator with Ref.*	8-SOIC	3.27	2.18	1.58
MAX932CPA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-Dip	3.57	2.38	1.72
MAX932CSA+-ND	Dual Ultra Low Power Comparator with Ref.*	8-SOIC	3.57	2.38	1.72
MAX932ESA+-ND	Dual Ultra Low Power Comparator with Ref.*	8-SOIC	4.23	2.82	2.04
MAX933CPA+-ND	Dual Ultra Low Power Comparator with Ref.*	8-Dip	3.57	2.38	1.72
MAX933CSA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-SOIC	3.57	2.38	1.72
MAX933CUA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-µMAX	3.84	2.56	1.85
MAX933ESA+-ND	Dual Ultra Low Power Comparator with Ref.* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX934CSE+-ND	Quad Ultra Low Power Comparator with Ref.*	16-SOIC	3.39	2.26	1.63
MAX934ESE+-ND	Quad Ultra Low Power Comparator with Ref.*	16-SOIC	4.35	2.90	2.10
MAX941CPA+-ND	Single, 3V/5V, Single Supply, R/R Input Comp.* ***NEW!***	8-Dip	3.90	2.60	1.88
MAX941CSA+-ND	Single, 3V/5V, Single Supply, R/R Input Comp.*	8-SOIC	3.90	2.60	1.88
MAX941ESA+-ND	Single, 3V/5V, Single Supply, R/R Input Comp.*	8-SOIC	4.86	3.24	2.34
MAX941EUA+-ND	Single, 3V/5V, Single Supply, R/R Input Comp.*	8-µMAX	4.86	3.24	2.34
MAX942CPA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comp.* ***NEW!***	8-Dip	4.20	2.80	2.03
MAX942CSA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comparator*	8-SOIC	4.20	2.80	2.03
MAX942CUA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comp.* ***NEW!***	8-µMAX	4.53	3.02	2.18
MAX942EPA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comp.* ***NEW!***	8-Dip	5.22	3.48	2.52
MAX942ESA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comparator*	8-SOIC	5.22	3.48	2.52
MAX942EUA+-ND	Dual, 3V/5V, Single Supply, R/R Input Comparator*	8-µMAX	5.22	3.48	2.52
MAX944CSD+-ND	Quad, 3V/5V, Single Supply, R/R Input Comparator*	14-SOIC	6.96	4.64	3.36
MAX944EPD+-ND	Quad, 3V/5V, Single Supply, R/R Input Comp.* ***NEW!***	14-Dip	8.70	5.80	4.20
MAX944ESD+-ND	Quad, 3V/5V, Single Supply, R/R Input Comparator*	14-SOIC	8.70	5.80	4.20
MAX951ESA+-ND	Single Supply, Low Power Op Amp/Comparator/ Ref.*	8-SOIC	4.80	3.20	2.32
MAX961ESA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-SOIC	7.50	5.00	3.62
MAX961EUA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-µMAX	7.50	5.00	3.62
MAX962ESA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-SOIC	12.75	8.50	6.16
MAX962EUA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-µMAX	12.75	8.50	6.16
MAX963ESD+-ND	+3V/+5V, Beyond-the-Rails Comparator*	14-SOIC	10.47	6.98	5.06
MAX964EEE+-ND	+3V/+5V, Beyond-the-Rails Comparator*	16-QSOP	17.13	11.42	8.27
MAX964ESE+-ND	+3V/+5V, Beyond-the-Rails Comparator*	16-SOIC	17.13	11.42	8.27
MAX965EUA+-ND	Single, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	8-µMAX	3.06	2.04	1.47
MAX966ESA+-ND	Dual, Micropower, R/R I/O Comparator* ***NEW!***	8-SOIC	3.06	2.04	1.47
MAX966EUA+-ND	Dual, Micropower, R/R I/O Comparator* ***NEW!***	8-µMAX	3.06	2.04	1.47
MAX967ESA+-ND	Dual, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	8-SOIC	3.84	2.56	1.85
MAX967EUA+-ND	Dual, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	8-µMAX	3.84	2.56	1.85
MAX968ESA+-ND	Dual, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	8-SOIC	3.84	2.56	1.85
MAX968EUA+-ND	Dual, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	8-µMAX	3.84	2.56	1.85
MAX969EEE+-ND	Quad, Micropower R/R I/O Comparator w/ Ref.*	16-QSOP	5.76	3.84	2.78
MAX969ESE+-ND	Quad, Micropower R/R I/O Comparator w/ Ref.* ***NEW!***	16-SOIC	5.76	3.84	2.78
MAX970EEE+-ND	Quad, Micropower R/R I/O Comparator* ***NEW!***	16-QSOP	4.71	3.14	2.27
MAX970ESD+-ND	Quad, Micropower R/R I/O Comparator* ***NEW!***	14-SOIC	4.71	3.14	2.27
MAX971CSA+-ND	Single, Ultra Low Power Comparator w/ 1% Ref.*	8-SOIC	4.47	2.98	2.16
MAX971CUA+-ND	Single, Ultra Low Pwr Comparator w/ 1% Ref.* ***NEW!***	8-µMAX	5.25	3.50	2.53
MAX971ESA+-ND	Single, Ultra Low Pwr Comparator w/ 1% Ref.* ***NEW!***	8-SOIC	5.25	3.50	2.53
MAX972CSA+-ND	Dual, Ultra Low Power Comparator* ***NEW!***	8-SOIC	2.79	1.86	1.34
MAX972CUA+-ND	Dual, Ultra Low Power Comparator* ***NEW!***	8-µMAX	3.27	2.18	1.58
MAX972ESA+-ND	Dual, Ultra Low Power Comparator* ***NEW!***	8-SOIC	3.27	2.18	1.58
MAX973CSA+-ND	Dual, Ultra Low Power Comparator w/ 1% Ref.* ***NEW!***	8-SOIC	5.52	3.68	2.66
MAX973EPA+-ND	Dual, Ultra Low Power Comparator w/ 1% Ref.* ***NEW!***	8-Dip	7.26	4.84	3.50
MAX973ESA+-ND	Dual, Ultra Low Power Comparator w/ 1% Ref.* ***NEW!***	8-SOIC	7.26	4.84	3.50
MAX974CSE+-ND	Quad, Ultra Low Pwr Comparator w/ 1% Ref.* ***NEW!***	16-SOIC	6.39	4.26	3.08
MAX974ESE+-ND	Quad, Ultra Low Pwr Comparator w/ 1% Ref.* ***NEW!***	16-SOIC	8.31	5.54	4.01
MAX975ESA+-ND	Single, +3V/+5V Comparator with Auto Standby* ***NEW!***	8-SOIC	5.85	3.90	2.82
MAX975EUA+-ND	Single, +3V/+5V Comparator with Auto Standby*	8-µMAX	5.85	3.90	2.82
MAX976ESA+-ND	Dual, Single-Supply HS Low Power Comparator*	8-SOIC	6.15	4.10	2.97
MAX976EUA+-ND	Dual, Single-Supply HS Low Power Comparator*	8-µMAX	6.15	4.10	2.97
MAX977ESD+-ND	Dual, +3V/+5V Comparator with Auto Standby* ***NEW!***	14-SOIC	10.50	7.00	5.07
MAX978EEE+-ND	Quad, High Speed, Low Power Comparator* ***NEW!***	16-QSOP	9.33	6.22	4.50
MAX978ESE+-ND	Quad, High Speed, Low Power Comparator* ***NEW!***	16-SOIC	9.33	6.22	4.50
MAX981CSA+-ND	Single, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-SOIC	2.79	1.86	1.34
MAX981CUA+-ND	Single, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-µMAX	3.27	2.18	1.58
MAX982ESA+-ND	Dual, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-SOIC	4.20	2.80	2.03
MAX983CSA+-ND	Dual, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-SOIC	3.57	2.38	1.72
MAX983EPA+-ND	Dual, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-Dip	4.20	2.80	2.03
MAX983ESA+-ND	Dual, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	8-SOIC	4.20	2.80	2.03
MAX984CSE+-ND	Quad, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	16-SOIC	3.69	2.46	1.78
MAX984ESE+-ND	Quad, Ultra Low Pwr Comparator w/ 2% Ref.* ***NEW!***	16-SOIC	4.35	2.90	2.10
MAX985ESA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-SOIC	1.98	1.32	.95
MAX985EUK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2.52	1.90	1.67
MAX985EUK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2968.75/2,500		
MAX985EXK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX985EXK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2375.00/2,500		
MAX986EUK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2.52	1.90	1.67
MAX986EUK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2968.75/2,500		
MAX986EXK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX986EXK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2375.00/2,500		
MAX987ESA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-SOIC	1.98	1.32	.95
MAX987EUK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator*	SOT-23-5	2.52	1.90	1.67
MAX987EUK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator*	SOT-23-5	2968.75/2,500		
MAX987EXK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX987EXK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SC70-5	2375.00/2,500		
MAX988EUK+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2.52	1.90	1.67
MAX988EUK+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-5	2968.75/2,500		
MAX989EKA+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-8	2.57	1.94	1.70
MAX989EKA+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-8	3031.25/2,500		
MAX989ESA+-ND	Micropower, Low Voltage R/R I/O Comparator*	8-SOIC	3.18	2.12	1.53
MAX989EUA+-ND	Micropower, Low Voltage R/R I/O Comparator*	8-µMAX	3.18	2.12	1.53
MAX990ESA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-SOIC	3.18	2.12	1.53
MAX990EUA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-µMAX	3.18	2.12	1.53
MAX991EKA+TCT-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-8	2.57	1.94	1.70
MAX991EKA+TTR-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	SOT-23-8	3031.25/2,500		
MAX991ESA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-SOIC	3.18	2.12	1.53
MAX991EUA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-µMAX	3.18	2.12	1.53
MAX992ESA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-SOIC	3.18	2.12	1.53
MAX992EUA+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	8-µMAX	3.18	2.12	1.53
MAX993ESD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-SOIC	4.74	3.16	2.29
MAX993EUD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-TSSOP	4.35	2.90	2.10
MAX994ESD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-SOIC	4.74	3.16	2.29
MAX994EUD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-TSSOP	4.35	2.90	2.10
MAX995ESD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-SOIC	4.74	3.16	2.29
MAX995EUD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-TSSOP	4.35	2.90	2.10
MAX996ESD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX996EUD+-ND	Micropower, Low Voltage R/R I/O Comparator* ***NEW!***	14-TSSOP	4.74	3.16	2.29
MAX997ESA+-ND	Single Ultra HS Beyond-the-Rails Comparator*	8-SOIC	6.48	4.32	3.13
MAX997EUA+-ND	Single Ultra HS Beyond-the-Rails Comparator* ***NEW!***	8-µMAX	6.48	4.32	3.13
MAX998ESA+-ND	Single Supply, HS, Low Power Comparator*	8-SOIC	5.10	3.40	2.46
MAX998EUT+TCT-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	6.44	4.86	4.26
MAX998EUT+TTR-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	7593.75/2,500		
MAX999EUK+TCT-ND	Single, Ultra HS, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	7.47	5.64	4.94
MAX999EUK+TTR-ND	Single, Ultra HS, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	8812.50/2,500		
MAX2472EUT+TCT-ND	500MHz~2500MHz VCO Buffer Amp* ***NEW!***	SOT-23-6	2.86	2.16	1.89
MAX2472EUT+TTR-ND	500MHz~2500MHz VCO Buffer Amp* ***NEW!***	SOT-23-6	3375.00/2,500		
MAX2620EUA+-ND	RF Oscillator with Buffered Outputs*	8-µMAX	9.57	6.38	4.62
MAX2634AXT+TCT-ND	Low Noise Amp for Automotive RKE* ***NEW!***	SC70-6	1.51	1.14	1.00
MAX2634AXT+TTR-ND	Low Noise Amp for Automotive RKE* ***NEW!***	SC70-6	1781.25/2,500		
MAX2659ELT+TCT-ND	GPS/GNSS Low Noise Amp* ***NEW!***	6-µDFN	1.43	1.08	.95
MAX2659ELT+TTR-ND	GPS/GNSS Low Noise Amp* ***NEW!***	6-µDFN	1687.50/2,500		
MAX3269CUB+-ND	3V~5.5V, 2.5Gbps Limiting Amp* ***NEW!***	10-µMAX	5.06	—	—
MAX3272AETP+-ND	Low Power Limiting Amp*	20-TQFN	12.87	8.58	6.22
MAX3645EEE+-ND	2.97V to 5.5V, 125Mbps Limiting Amp*	16-QSOP	5.10	3.40	2.46

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX3798ETJ+-ND	1.0625Gbps~10.32Gbps Limiting Amp/VCSEL Driver* ***NEW!***	32-TQFN	4.13	—	—
MAX3799ETJ+-ND	1Gbps~14Gbps Limiting Amp/VCSEL Driver* ***NEW!***	32-TQFN	4.13	—	—
MAX4016EUA+-ND	High Speed R/R Output Op Amp* ***NEW!***	8-µMAX	3.30	2.20	1.59
MAX4017EUA+-ND	Dual, High Speed Single Supply R/R Out Buffer* ***NEW!***	8-µMAX	3.75	2.50	1.81
MAX4019EEE+-ND	Triple, High Speed Single Supply R/R Out Buffer* ***NEW!***	16-QSOP	5.85	3.90	2.82
MAX4019ESD+-ND	Triple, High Speed Single Supply R/R Out Buffer* ***NEW!***	14-SOIC	5.85	3.90	2.82
MAX4020EEE+-ND	High Speed R/R Output Op Amp* ***NEW!***	16-QSOP	6.15	4.10	2.97
MAX4022EEE+-ND	Quad, High Speed Single Supply R/R Out Buffer* ***NEW!***	16-QSOP	6.78	4.52	3.27
MAX4022ESD+-ND	Quad, High Speed Single Supply R/R Out Buffer* ***NEW!***	14-SOIC	6.78	4.52	3.27
MAX4030EESA+-ND	Dual, 144MHz Op Amp w/ ESD Protection* ***NEW!***	8-SOIC	2.10	1.40	1.01
MAX4031EEUD+-ND	Triple, 144MHz Op Amp w/ ESD Protection* ***NEW!***	14-TSSOP	2.82	1.88	1.36
MAX4038ETA+TCT-ND	Low Bias Current R/R Op Amp with Buffered Ref.* ***NEW!***	8-TDFN	1.72	1.30	1.14
MAX4038ETA+TTR-ND	Low Bias Current R/R Op Amp with Buffered Ref.* ***NEW!***	8-TDFN	2031.25/2,500		
MAX4039EUB+-ND	Low Bias Current R/R Op Amp with Buffered Ref.* ***NEW!***	10-µMAX	2.37	1.58	1.14
MAX4040ESA+-ND	Single Micropower R/R I/O Op Amp* ***NEW!***	8-SOIC	1.59	1.06	.76
MAX4040EUA+-ND	Single Micropower R/R I/O Op Amp* ***NEW!***	8-µMAX	1.59	1.06	.76
MAX4040EUK+TCT-ND	Single Micropower R/R I/O Op Amp* ***NEW!***	SOT-23-5	1.83	1.38	1.21
MAX4040EUK+TTR-ND	Single Micropower R/R I/O Op Amp* ***NEW!***	SOT-23-5	2156.25/2,500		
MAX4041ESA+-ND	Single Micropower R/R I/O Op Amp w/ Shutdown* ***NEW!***	8-SOIC	1.80	1.20	.87
MAX4042ESA+-ND	Dual Micropower R/R I/O Op Amp* ***NEW!***	8-SOIC	2.25	1.50	1.08
MAX4042EUA+-ND	Dual Micropower R/R I/O Op Amp* ***NEW!***	8-µMAX	2.25	1.50	1.08
MAX4043EUB+-ND	Dual Micropower R/R I/O Op Amp w/ Shutdown* ***NEW!***	10-µMAX	2.49	1.66	1.20
MAX4044ESD+-ND	Quad Micropower R/R I/O Op Amp* ***NEW!***	14-SOIC	3.66	2.44	1.76
MAX4069AUB+-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	10-µMAX	2.70	1.80	1.30
MAX4070AUA+-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	8-µMAX	2.70	1.80	1.30
MAX4071ATA+TCT-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	8-TQFN	2.39	1.80	1.58
MAX4071ATA+TTR-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	8-TQFN	2812.50/2,500		
MAX4071AUA+-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	8-µMAX	2.70	1.80	1.30
MAX4072AUA+-ND	Bidirectional High-Side Current-Sense Amp* ***NEW!***	8-µMAX	2.40	1.60	1.16
MAX4073FAXK+TCT-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX4073FAXK+TTR-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2375.00/2,500		
MAX4073HAXK+TCT-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX4073HAXK+TTR-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2375.00/2,500		
MAX4073TAUT+TCT-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	2.01	1.52	1.33
MAX4073TAUT+TTR-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	2375.00/2,500		
MAX4073TAXK+TCT-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2.01	1.52	1.33
MAX4073TAXK+TTR-ND	Voltage Output High-Side Current-Sense Amp* ***NEW!***	SC70-5	2375.00/2,500		
MAX4080FASA+-ND	76V High-Side Current-Sense Amp*	8-SOIC	2.70	1.80	1.30
MAX4080FAUA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-µMAX	2.70	1.80	1.30
MAX4080SASA+-ND	76V High-Side Current-Sense Amp*	8-SOIC	2.70	1.80	1.30
MAX4080SAUA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-µMAX	2.70	1.80	1.30
MAX4080TASA+-ND	76V High-Side Current-Sense Amp*	8-SOIC	2.70	1.80	1.30
MAX4080TAUA+-ND	76V High-Side Current-Sense Amp*	8-µMAX	2.70	1.80	1.30
MAX4081FASA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-SOIC	3.12	2.08	1.50
MAX4081FAUA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-µMAX	3.12	2.08	1.50
MAX4081SASA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-SOIC	3.12	2.08	1.50
MAX4081SAUA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-µMAX	3.12	2.08	1.50
MAX4081TASA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-SOIC	3.12	2.08	1.50
MAX4081TAUA+-ND	76V High-Side Current-Sense Amp* ***NEW!***	8-µMAX	3.12	2.08	1.50
MAX4091AUK+TCT-ND	Single, Micropower R/R Op Amp* ***NEW!***	SOT-23-5	1.22	.92	.81
MAX4091AUK+TTR-ND	Single, Micropower R/R Op Amp* ***NEW!***	SOT-23-5	1437.50/2,500		
MAX4092ASA+-ND	Dual, Micropower R/R Op Amp* ***NEW!***	8-SOIC	1.92	1.28	.92
MAX4092AUA+-ND	Dual, Micropower R/R Op Amp* ***NEW!***	8-µMAX	1.92	1.28	.92
MAX4094ASD+-ND	Quad, Micropower R/R Op Amp* ***NEW!***	14-SOIC	2.64	1.76	1.27
MAX4094AUD+-ND	Quad, Micropower R/R Op Amp* ***NEW!***	14-TSSOP	2.64	1.76	1.27
MAX4104ESA+-ND	Low Noise, Low Distortion Op Amp* ***NEW!***	8-SOIC	3.54	2.36	1.71
MAX4105ESA+-ND	Low Noise, Low Distortion Op Amp* ***NEW!***	8-SOIC	3.54	2.36	1.71
MAX4123ESA+-ND	Single, 5MHz, Single Supply Op Amp with Shutdown* ***NEW!***	8-SOIC	2.94	1.96	1.42
MAX4125ESA+-ND	Single, 25MHz, Single Supply Op Amp with Shutdown* ***NEW!***	8-SOIC	2.94	1.96	1.42
MAX4126ESA+-ND	Dual, 5MHz, Single Supply Op Amp*	8-SOIC	4.23	2.82	2.04
MAX4126EUA+-ND	Dual, 5MHz, Single Supply Op Amp* ***NEW!***	8-µMAX	4.50	3.00	2.17
MAX4127ESD-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown	14-SOIC	4.43	3.34	2.14
MAX4127ESD+-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown*	14-SOIC	5.01	3.34	2.42
MAX4128ESA+-ND	Dual, 25MHz, Single Supply Op Amp* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX4128EUA-ND	Dual, 25MHz, Single Supply Op Amp	8-µMAX	3.98	3.00	1.77
MAX4128EUA+-ND	Dual, 25MHz, Single Supply Op Amp*	8-µMAX	4.50	3.00	2.17
MAX4131ESA+-ND	Single, 10MHz, Single Supply Op Amp with Shutdown*	8-SOIC	2.94	1.96	1.42
MAX4132ESA+-ND	Dual, 10MHz, Single Supply Op Amp*	8-SOIC	4.23	2.82	2.04
MAX4132EUA+-ND	Dual, 10MHz, Single Supply Op Amp* ***NEW!***	8-µMAX	4.50	3.00	2.17
MAX4134ESD+-ND	Quad, 10MHz, Single Supply Op Amp*	14-SOIC	7.20	4.80	3.48
MAX4162ESA+-ND	Single, 10V, Micropower, R/R In/Out Op Amp*	8-SOIC	3.00	2.00	1.45
MAX4162EUK+TCT-ND	Single, 10V, Micropower, R/R In/Out Op Amp*	SOT-23-5	3.47	2.62	2.30
MAX4162EUK+TTR-ND	Single, 10V, Micropower, R/R In/Out Op Amp*	SOT-23-5	4093.75/2,500		
MAX4163ESA+-ND	Dual, 10V, Micropower, R/R In/Out Op Amp*	8-SOIC	3.75	2.50	1.81
MAX4163EUA+-ND	Dual, 10V, Micropower, R/R In/Out Op Amp*	8-µMAX	3.75	2.50	1.81
MAX4164ESD+-ND	Quad, 10V, Micropower, R/R In/Out Op Amp* ***NEW!***	14-SOIC	6.66	4.44	3.21
MAX4166ELA+TCT-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	8-µDFN	2.52	1.90	1.67
MAX4166ELA+TTR-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	8-µDFN	2968.75/2,500		
MAX4166EUA+-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	8-µMAX	2.85	1.90	1.37
MAX4167ESA+-ND	Single Rail-to-Rail I/O Op Amp with Shutdown*	8-SOIC	3.30	2.20	1.59
MAX4168ESD+-ND	Dual Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	14-SOIC	3.75	2.50	1.81
MAX4168EUB+-ND	Dual Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	10-µMAX	3.75	2.50	1.81
MAX4169ESD+-ND	Quad Rail-to-Rail I/O Op Amp* ***NEW!***	14-SOIC	4.98	3.32	2.40
MAX4172ESA+-ND	High-Side Current Sense Amplifier*	8-SOIC	4.35	2.90	2.10
MAX4172EUA+-ND	High-Side Current Sense Amplifier*	8-µMAX	3.99	2.66	1.92
MAX4173FESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	2.13	1.42	1.02
MAX4173FEUT+TCT-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	2.68	2.02	1.77
MAX4173FEUT+TTR-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	3156.25/2,500		
MAX4173HESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	2.13	1.42	1.02
MAX4173HEUT+TCT-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	2.68	2.02	1.77
MAX4173HEUT+TTR-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	3156.25/2,500		
MAX4173TESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	2.13	1.42	1.02
MAX4173TEUT+TCT-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	2.68	2.02	1.77
MAX4173TEUT+TTR-ND	Voltage-Output, High-Side Current-Sense Amp* ***NEW!***	SOT-23-6	3156.25/2,500		
MAX4183ESD+-ND	Dual Current-Feedback Amp with Shutdown* ***NEW!***	14-SOIC	2.51	—	—
MAX4194ESA+-ND	Variable-Gain Precision Instrumentation Amp*	8-SOIC	4.56	3.04	2.20
MAX4195ESA+-ND	1V/V Gain Precision Instrumentation Amp* ***NEW!***	8-SOIC	4.56	3.04	2.20
MAX4196ESA+-ND	10V/V Gain Precision Instrumentation Amp* ***NEW!***	8-SOIC	4.56	3.04	2.20
MAX4197ESA+-ND	100V/V Gain Precision Instrumentation Amp* ***NEW!***	8-SOIC	4.56	3.04	2.20
MAX4198ESA+-ND	Micropower Precision Differential Amp* ***NEW!***	8-SOIC	3.57	2.38	1.72
MAX4198EUA+-ND	Micropower Precision Differential Amp* ***NEW!***	8-µMAX	3.57	2.38	1.72
MAX4200ESA+-ND	Single, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-SOIC	3.54	2.36	1.71
MAX4201ESA+-ND	Single, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-SOIC	1.34	1.17	.89
MAX4203ESA+-ND	Dual, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-SOIC	4.26	2.84	2.05
MAX4203EUA+-ND	Dual, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-µMAX	4.26	2.84	2.05
MAX4204ESA+-ND	Dual, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-SOIC	4.26	2.84	2.05
MAX4205EUA+-ND	Dual, Ultra-High Speed Open-Loop Buffer* ***NEW!***	8-µMAX	4.26	2.84	2.05
MAX4206ETE+-ND	Precision Transimpedance Logarithmic Amp* ***NEW!***	16-TQFN	18.60	12.40	8.99
MAX4208AUA+-ND	Adj. Gain Precision Instrumentation Amp* ***NEW!***	8-µMAX	2.41	2.11	1.60
MAX4209HAUA+-ND	Fixed Gain Precision Instrumentation Amp* ***NEW!***	8-µMAX	2.41	2.11	1.60
MAX4213ESA+-ND	300MHz, Single R/R Op Amp with Enable*	8-SOIC	4.50	3.00	2.17
MAX4213EUA+-ND	300MHz, Single R/R Op Amp with Enable* ***NEW!***	8-µMAX	4.50	3.00	2.17
MAX4215ESA+-ND	Single, Closed-Loop R/R Buffer with Enable* ***NEW!***	8-SOIC	4.47	2.98	2.16
MAX4215EUA+-ND	Single, Closed-Loop R/R Buffer with Enable* ***NEW!***	8-µMAX	4.47	2.98	2.16
MAX4216ESA+-ND	200MHz, Dual R/R Op Amp with Enable* ***NEW!***	8-SOIC	6.78	4.52	3.27
MAX4216EUA+-ND	200MHz, Dual R/R Op Amp with Enable* ***NEW!***	8-µMAX	6.78	4.52	3.27
MAX4217ESA+-ND	Dual, Closed-Loop R/R Buffer* ***NEW!***	8-SOIC	6.15	4.10	2.97
MAX4218EEE+-ND	200MHz, Triple R/R Op Amp with Enable* ***NEW!***	16-QSOP	8.94	5.96	4.32
MAX4218ESD+-ND	200MHz, Triple R/R Op Amp with Enable* ***NEW!***	14-SOIC	8.94	5.96	4.32
MAX4219EEE+-ND	Triple, Closed-Loop R/R Buffer with Enable* ***NEW!***	16-QSOP	8.40	5.60	4.06
MAX4219ESD+-ND	Triple, Closed-Loop R/R Buffer with Enable* ***NEW!***	14-SOIC	8.40	5.60	4.06
MAX4220EEE-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	16-QSOP	10.49	7.92	5.08
MAX4220EEE+-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp*	16-QSOP	11.88	7.92	5.74
MAX4222ESD+-ND	Quad, Gain of 2 Closed-Loop R/R Buffer*	14-SOIC	10.20	6.80	4.93
MAX4223ESA+-ND	Single, Current-Feedback Amp with Shutdown* ***NEW!***	8-SOIC	6.48	4.32	3.13
MAX4224ESA+-ND	Single, Current-Feedback Amp with Shutdown* ***NEW!***	8-SOIC	6.48	4.32	3.13
MAX4225ESA+-ND	Dual, Current-Feedback Amp* ***NEW!***	8-SOIC	5.67	3.78	2.74
MAX4226EUB+-ND	Dual, Current-Feedback Amp with Shutdown* ***NEW!***	10-µMAX	5.67	3.78	2.74
MAX4227ESA+-ND	Dual, Current-Feedback Amp* ***NEW!***	8-SOIC	5.94	3.96	2.87
MAX4228EUB+-ND	Dual, Current-Feedback Amp with Shutdown* ***NEW!***	10-µMAX	5.94	3.96	2.87
MAX4230AUK+TCT-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SOT-23-5	1.14	.86	.76
MAX4230AUK+TTR-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SOT-23-5	1343.75/2,500		
MAX4230AXK+TCT-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-5	1.14	.86	.76
MAX4230AXK+TTR-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-5	1343.75/2,500		
MAX4231AXT+TCT-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-6	1.22	.92	.81
MAX4231AXT+TTR-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-6	1437.50/2,500		
MAX4232AKA+TCT-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-8	1.80	1.36	1.19
MAX4232AKA+TTR-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-8	2125.00/2,500		
MAX4232AUA+-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	8-µMAX	1.62	1.08	.78
MAX4233AUB+-ND	Dual Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	10-µMAX	1.77	1.18	.85
MAX4234AUD+-ND	Quad Rail-to-Rail I/O Op Amp* ***NEW!***	14-TSSOP	2.64	1.76	1.27
MAX4236AESA+-ND	High Precision, 3V/5V Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.67	1.78	1.29
MAX4236AEUA+-ND	High Precision, 3V/5V Rail-to-Rail Op Amp* ***NEW!***	8-µMAX	2.67	1.78	1.29
MAX4236BESA+-ND	High Precision, 3V/5V Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	1.83	1.22	.88
MAX4236EUT+TCT-ND	High Precision Rail-to-Rail Op Amp* ***NEW!***	SOT-23-6	2.01	1.52	1.33
MAX4236EUT+TTR-ND	High Precision Rail-to-Rail Op Amp* ***NEW!***	SOT-23-6	2375.00/2,500		
MAX4237AESA+-ND	High Precision, 3V/5V Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.67	1.78	1.29
MAX4238ASA+-ND	Ultra-Low Offset/Drift, Low Noise Precision Amp*	8-SOIC	2.40	1.60	1.16
MAX4238ATT+TCT-ND	Ultra-Low Offset/Drift, Low Noise Precision Amp* ***NEW!***	6-TDFN	2.12	1.60	1.40
MAX4238ATT+TTR-ND	Ultra-Low Offset/Drift, Low Noise Precision Amp* ***NEW!***	6-TDFN	2500.00/2,500		
MAX4239ASA+-ND	Ultra-Low Offset/Drift, Low Noise Precision Amp* ***NEW!***	8-SOIC	2.40	1.60	1.16
MAX4241ESA+-ND	Single 1.8V Beyond-the-Rails Op Amp w/ Shutdown* ***NEW!***	8-SOIC	2.85	1.90	1.37
MAX4241EUA+-ND	Single 1.8V Beyond-the-Rails Op Amp w/ Shutdown* ***NEW!***	8-µMAX	2.85	1.90	1.37
MAX4242ESA+-ND	Dual 1.8V Beyond-the-Rails Op Amp*	8-SOIC	3.90	2.60	1.88
MAX4242EUA+-ND	Dual 1.8V Beyond-the-Rails Op Amp* ***NEW!***	8-µMAX	3.90	2.60	1.88
MAX4243EUB+-ND	Dual 1.8V Beyond-the-Rails Op Amp w/ Shutdown* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4244ESD+-ND	Quad 1.8V Beyond-the-Rails Op Amp* ***NEW!***	14-SOIC	6.60	4.40	3.19
MAX4245AXT+TCT-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-6	1.43	1.08	.95
MAX4245AXT+TTR-ND	Single Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	SC70-6	1687.50/2,500		
MAX4246AKA+TCT-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-8	1.75	1.32	1.16
MAX4246AKA+TTR-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-8	2062.50/2,500		
MAX4246ASA+-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	8-SOIC	1.74	1.16	.84
MAX4246AUA+-ND	Dual Rail-to-Rail I/O Op Amp* ***NEW!***	8-µMAX	1.74	1.16	.84
MAX4247AUB+-ND	Dual Rail-to-Rail I/O Op Amp with Shutdown* ***NEW!***	10-µMAX	1.83	1.22	.88
MAX4249EUB+-ND	Dual, Low Noise R/R Op Amp with Shutdown* ***NEW!***	10-µMAX	2.28	1.52	1.10
MAX4250AAUK+TCT-ND	Single, Low Noise R/R Op Amp* ***NEW!***	SOT-23-5	2.89	2.18	1.91
MAX4250AAUK+TTR-ND	Single, Low Noise R/R Op Amp* ***NEW!***	SOT-23-5	3406.25/2,500		
MAX4250EUK+TCT-ND	Single, Low Noise R/R Op Amp* ***NEW!***	SOT-23-5	2.89	2.18	1.91
MAX4250EUK+TTR-ND	Single, Low Noise R/R Op Amp* ***NEW!***	SOT-23-5	3406.25/2,500		
MAX4251EUA+-ND	Single, Low Noise R/R Op Amp with Shutdown* ***NEW!***	8-µMAX	2.85	1.90	1.37
MAX4252EBL+TCT-ND	Dual, Low Noise R/R Op Amp* ***NEW!***	8-UCSP	1.83	1.38	1.21
MAX4252EBL+TTR-ND	Dual, Low Noise R/R Op Amp* ***NEW!***	8-UCSP	2156.25/2,500		
MAX4252ESA+-ND	Dual, Low Noise R/R Op Amp*	8-SOIC	3.60	2.40	1.74
MAX4252EUA+-ND	Dual, Low Noise R/R Op Amp*	8-µMAX	3.60	2.40	1.74
MAX4253EUB+-ND	Dual, Low Noise R/R Op Amp with Shutdown*	10-µMAX	3.99	2.66	1.92
MAX4254ESD+-ND	Quad, Low Noise R/R Op Amp* ***NEW!***	14-SOIC	6.60	4.40	3.19
MAX4256ESA+-ND	Single, Low Noise R/R Op Amp with Shutdown* ***NEW!***	8-SOIC	2.85	1.90	1.37
MAX4257ESA+-ND	Dual, Low Noise R/R Op Amp* ***NEW!***	8-SOIC	2.07	1.38	1.00
MAX4281EUK+TCT-ND	Single Open-Loop Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	2.15	1.62	1.42
MAX4281EUK+TTR-ND	Single Open-Loop Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	2531.25/2,500		
MAX4282ESA+-ND	Dual Open-Loop Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	3.06	2.04	1.47
MAX4285EUT+TCT-ND	Single ADC Buffer Amp w/ High Speed Disable* ***NEW!***	SOT-23-6	2.78	2.10	1.84
MAX4285EUT+TTR-ND	Single ADC Buffer Amp w/ High Speed Disable* ***NEW!***	SOT-23-6	3281.25/2,500		
MAX4289ESA+-ND	Ultra-Low Voltage Micropower Op Amp* ***NEW!***	8-SOIC	1.65	1.10	.79
MAX4291EUK+TCT-ND	Single Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	1.46	1.10	.97

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX4291EUK+TTR-ND	Single Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	1718.75/2,500		
MAX4291EXK+TCT-ND	Single Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	SC70-5	1.46	1.10	.97
MAX4291EXK+TTR-ND	Single Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	SC70-5	1718.75/2,500		
MAX4292EUA+-ND	Dual Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	8-µMAX	2.04	1.36	.98
MAX4294ESD+-ND	Quad Micropower Rail-to-Rail I/O Op Amp* ***NEW!***	14-SOIC	2.85	1.90	1.37
MAX4304ESA+-ND	Ultra High Speed, Low Noise, 2V/V Op Amp* ***NEW!***	8-SOIC	4.80	3.20	2.32
MAX4305ESA+-ND	Ultra High Speed, Low Noise, 10V/V Op Amp* ***NEW!***	8-SOIC	4.80	3.20	2.32
MAX4310ESA+-ND	High Speed, Low Power, Dual Video Mux Amp*	8-SOIC	6.24	4.16	3.01
MAX4310EUA+-ND	High Speed, Low Power, Dual Video Mux Amp* ***NEW!***	8-µMAX	6.24	4.16	3.01
MAX4311ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	8.37	5.58	4.04
MAX4312EEE+-ND	High Speed, Low Power, Octal Video Mux Amp* ***NEW!***	16-QSOP	12.63	8.42	6.10
MAX4313EUA+-ND	High Speed, Low Power, Dual Video Mux Amp* ***NEW!***	8-µMAX	6.24	4.16	3.01
MAX4314EEE+-ND	High Speed, Low Power, Quad Video Mux Amp* ***NEW!***	16-QSOP	8.37	5.58	4.04
MAX4314ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	8.37	5.58	4.04
MAX4315EEE+-ND	High Speed, Low Power, Octal Video Mux Amp* ***NEW!***	16-QSOP	12.63	8.42	6.10
MAX4315ESE+-ND	High Speed, Low Power, Octal Video Mux Amp* ***NEW!***	16-SOIC	12.63	8.42	6.10
MAX4321EUK+TCT-ND	Low Voltage Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	1.48	1.12	.98
MAX4321EUK+TTR-ND	Low Voltage Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	1750.00/2,500		
MAX4322EUK+TCT-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	1.27	.96	.84
MAX4322EUK+TTR-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	1500.00/2,500		
MAX4326ESA+-ND	Low Power, Dual R/R I/O Op Amp* ***NEW!***	8-SOIC	2.25	1.50	1.08
MAX4326EUA+-ND	Low Power, Dual R/R I/O Op Amp* ***NEW!***	8-µMAX	2.28	1.52	1.10
MAX4329ESD+-ND	Low Power, Quad R/R I/O Op Amp* ***NEW!***	14-SOIC	3.66	2.44	1.76
MAX4330EUK+TCT-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	3.07	2.32	2.03
MAX4330EUK+TTR-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-5	3625.00/2,500		
MAX4331ESA+-ND	Low Power, Single R/R I/O Op Amp w/ Shutdown* ***NEW!***	8-SOIC	2.82	1.88	1.36
MAX4331EUA+-ND	Low Power, Single R/R I/O Op Amp w/ Shutdown* ***NEW!***	8-µMAX	2.82	1.88	1.36
MAX4332ESA+-ND	Low Power, Single Rail-to-Rail I/O Op Amp*	8-SOIC	3.90	2.60	1.88
MAX4333EUB+-ND	Low Power, Dual R/R I/O Op Amp w/ Shutdown* ***NEW!***	10-µMAX	4.23	2.82	2.04
MAX4334ESD+-ND	Low Power, Quad R/R I/O Op Amp w/ Shutdown* ***NEW!***	14-SOIC	6.30	4.20	3.04
MAX4351ESA+-ND	Dual Supply R/R Output Op Amp * ***NEW!***	8-SOIC	2.55	1.70	1.23
MAX4352EXK+TCT-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SC70-5	2.54	1.92	1.68
MAX4352EXK+TTR-ND	Low Power, Single Rail-to-Rail I/O Op Amp* ***NEW!***	SC70-5	3000.00/2,500		
MAX4354EUD+-ND	Low Power, Quad Rail-to-Rail Output Op Amp* ***NEW!***	14-TSSOP	4.26	2.84	2.05
MAX4357ECD+D-ND	32x16 Nonblocking Video Crosspoint Switch with In/Out Buffers*	128-TQFP	89.26	78.11	—
MAX4372FESA+-ND	50V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.13	1.42	1.02
MAX4372FEUK+TCT-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372FEUK+TTR-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2218.75/2,500		
MAX4372HESA+-ND	100V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.13	1.42	1.02
MAX4372HEUK+TCT-ND	100V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	1.88	1.42	1.25
MAX4372HEUK+TTR-ND	100V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2218.75/2,500		
MAX4372TEBT+TCT-ND	20V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	3x2 UCSP	1.88	1.42	1.25
MAX4372TEBT+TTR-ND	20V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	3x2 UCSP	2218.75/2,500		
MAX4372TESA+-ND	20V/V, Micropower, High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.13	1.42	1.02
MAX4372TEUK+TCT-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372TEUK+TTR-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2218.75/2,500		
MAX4373FESA+-ND	50V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	8-SOIC	3.33	2.22	1.60
MAX4373FEUA+-ND	50V/V, High-Side Current-Sense Amp/Comp./Ref.*	8-µMAX	3.33	2.22	1.60
MAX4373HESA+-ND	100V/V High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	8-SOIC	3.33	2.22	1.60
MAX4373HEUA+-ND	100V/V High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	8-µMAX	3.33	2.22	1.60
MAX4373TESA+-ND	20V/V, High-Side Current-Sense Amp/Comp./Ref.*	8-SOIC	3.33	2.22	1.60
MAX4373TEUA+-ND	20V/V, High-Side Current-Sense Amp/Comp./Ref.*	8-µMAX	3.33	2.22	1.60
MAX4374FESD+-ND	50V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX4374FEUB+-ND	50V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4374HEUB+-ND	100V/V High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4374TEUB+-ND	20V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4375FEUB+-ND	50V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4375HESD+-ND	100V/V High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX4375HEUB+-ND	100V/V High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4375TESD+-ND	20V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX4375TEUB+-ND	20V/V, High-Side Current-Sense Amp/Comp./Ref.* ***NEW!***	10-µMAX	4.35	2.90	2.10
MAX4376FASA+-ND	50V/V, Single High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.16	1.44	1.04
MAX4376FAUK+TCT-ND	50V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2.39	1.80	1.58
MAX4376FAUK+TTR-ND	50V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2812.50/2,500		
MAX4376HASA+-ND	100V/V, Single High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.16	1.44	1.04
MAX4376HAUK+TCT-ND	100V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2.39	1.80	1.58
MAX4376HAUK+TTR-ND	100V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2812.50/2,500		
MAX4376TASA+-ND	20V/V, Single High-Side Current-Sense Amp* ***NEW!***	8-SOIC	2.16	1.44	1.04
MAX4376TAUK+TCT-ND	20V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2.39	1.80	1.58
MAX4376TAUK+TTR-ND	20V/V, Single High-Side Current-Sense Amp* ***NEW!***	SOT-23-5	2812.50/2,500		
MAX4377FASA+-ND	50V/V, Dual High-Side Current-Sense Amp* ***NEW!***	8-SOIC	3.12	2.08	1.50
MAX4377FAUA+-ND	50V/V, Dual High-Side Current-Sense Amp* ***NEW!***	8-µMAX	3.12	2.08	1.50
MAX4377TASA+-ND	20V/V, Dual High-Side Current-Sense Amp* ***NEW!***	8-SOIC	3.12	2.08	1.50
MAX4378FASD+-ND	50V/V, Quad High-Side Current-Sense Amp* ***NEW!***	14-SOIC	4.65	3.10	2.24
MAX4378FAUD+-ND	50V/V, Quad High-Side Current-Sense Amp* ***NEW!***	14-TSSOP	4.65	3.10	2.24
MAX4378HASD+-ND	100V/V, Quad High-Side Current-Sense Amp* ***NEW!***	14-SOIC	4.65	3.10	2.24
MAX4378TAUD+-ND	20V/V, Quad High-Side Current-Sense Amp* ***NEW!***	14-TSSOP	4.65	3.10	2.24
MAX4380EUT+TCT-ND	210MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-6	1.64	1.24	1.09
MAX4380EUT+TTR-ND	210MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-6	1937.50/2,500		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX4381EUB+-ND	210MHz Dual Op Amp with Rail-to-Rail Output* ***NEW!***	10-µMAX	2.97	1.98	1.43
MAX4382EEE+-ND	210MHz Triple Op Amp with Rail-to-Rail Output* ***NEW!***	16-QSOP	3.99	2.66	1.92
MAX4382ESD+-ND	210MHz Triple Op Amp with Rail-to-Rail Output* ***NEW!***	14-SOIC	3.99	2.66	1.92
MAX4382EUD+-ND	210MHz Triple Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	3.99	2.66	1.92
MAX4383ESD+-ND	210MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-SOIC	4.38	2.92	2.11
MAX4383EUD+-ND	210MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	4.38	2.92	2.11
MAX4384EUP+-ND	210MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	20-TSSOP	4.38	2.92	2.11
MAX4386EESD+-ND	230MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-SOIC	5.43	3.62	2.62
MAX4386EEUD+-ND	230MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	5.43	3.62	2.62
MAX4389EUT+TCT-ND	85MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-6	1.35	1.02	.90
MAX4389EUT+TTR-ND	85MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-6	1593.75/2,500		
MAX4389EXT+TCT-ND	85MHz Single Op Amp with Rail-to-Rail Output*	SC70-6	1.35	1.02	.90
MAX4389EXT+TTR-ND	85MHz Single Op Amp with Rail-to-Rail Output*	SC70-6	1593.75/2,500		
MAX4390EUK+TCT-ND	85MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-5	1.27	.96	.84
MAX4390EUK+TTR-ND	85MHz Single Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-5	1500.00/2,500		
MAX4390EXT+TCT-ND	85MHz Single Op Amp with Rail-to-Rail Output*	SC70-6	1.27	.96	.84
MAX4390EXT+TTR-ND	85MHz Single Op Amp with Rail-to-Rail Output*	SC70-6	1500.00/2,500		
MAX4392ESA+-ND	85MHz Dual Op Amp with Rail-to-Rail Output* ***NEW!***	8-SOIC	1.95	1.30	.94
MAX4392EUA+TCT-ND	85MHz Dual Op Amp with Rail-to-Rail Output*	8-µMAX	1.91	1.44	1.26
MAX4392EUA+TTR-ND	85MHz Dual Op Amp with Rail-to-Rail Output*	8-µMAX	2250.00/2,500		
MAX4393EUB+TCT-ND	85MHz Dual Op Amp with Rail-to-Rail Output*	10-µMAX	2.04	1.54	1.35
MAX4393EUB+TTR-ND	85MHz Dual Op Amp with Rail-to-Rail Output*	10-µMAX	2406.25/2,500		
MAX4394ESD+-ND	85MHz Triple Op Amp with Rail-to-Rail Output* ***NEW!***	14-SOIC	2.55	1.70	1.23
MAX4394ESD+TCT-ND	85MHz Triple Op Amp with Rail-to-Rail Output*	14-SOIC	2.44	1.84	1.61
MAX4394EUD+-ND	85MHz Triple Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	2.55	1.70	1.23
MAX4395ESD+-ND	85MHz Quad Op Amp with Rail-to-Rail Output*	14-SOIC	2.97	1.98	1.43
MAX4395ESD+TCT-ND	85MHz Quad Op Amp with Rail-to-Rail Output*	14-SOIC	2.81	2.12	1.86
MAX4395ESD+TTR-ND	85MHz Quad Op Amp with Rail-to-Rail Output*	14-SOIC	3312.50/2,500		
MAX4395EUD+-ND	85MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	2.97	1.98	1.43
MAX4396EUP+-ND	85MHz Quad Op Amp with Rail-to-Rail Output* ***NEW!***	20-TSSOP	3.24	2.16	1.56
MAX4400AXK+TCT-ND	Single Op Amp with Rail-to-Rail Output* ***NEW!***	SC70-5	1.03	.78	.69
MAX4400AXK+TTR-ND	Single Op Amp with Rail-to-Rail Output* ***NEW!***	SC70-5	1218.75/2,500		
MAX4402AKA+TCT-ND	Dual Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-8	1.72	1.30	1.14
MAX4402AKA+TTR-ND	Dual Op Amp with Rail-to-Rail Output* ***NEW!***	SOT-23-8	2031.25/2,500		
MAX4402ASA+-ND	Dual Op Amp with Rail-to-Rail Output* ***NEW!***	8-SOIC	1.59	1.06	.76
MAX4402AUA+-ND	Dual Op Amp with Rail-to-Rail Output* ***NEW!***	8-µMAX	1.59	1.06	.76
MAX4403ASD+-ND	Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-SOIC	2.10	1.40	1.01
MAX4403AUD+-ND	Quad Op Amp with Rail-to-Rail Output* ***NEW!***	14-TSSOP	2.10	1.40	1.01
MAX4409ETP+-ND	DirectDrive® Audio Amp, Class AB 2-Channel* ***NEW!***	20-TQFN	1.47	.98	.71
MAX4410EUD+-ND	DirectDrive® Audio Amp, Class AB 2-Channel* ***NEW!***	14-TSSOP	1.47	.98	.71
MAX4411ETP+-ND	DirectDrive® Audio Amp, Class AB 2-Channel* ***NEW!***	20-TQFN	1.47	.98	.71
MAX4412EUK+TCT-ND	3V/5V, 500MHz Single Op Amp with R/R Output*	SOT-23-5	2.76	2.08	1.82
MAX4412EUK+TTR-ND	3V/5V, 500MHz Single Op Amp with R/R Output*	SOT-23-5	3250.00/2,500		
MAX4412EXK+TCT-ND	3V/5V, 500MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	2.76	2.08	1.82
MAX4412EXK+TTR-ND	3V/5V, 500MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	3250.00/2,500		
MAX4414ESA+-ND	3V/5V, 400MHz Single Op Amp with R/R Output* ***NEW!***	8-SOIC	3.06	2.04	1.47
MAX4416ESA+-ND	3V/5V, 400MHz Dual Op Amp with R/R Output* ***NEW!***	8-SOIC	4.11	2.74	1.98
MAX4416EUA+-ND	3V/5V, 400MHz Dual Op Amp with R/R Output* ***NEW!***	8-µMAX	4.11	2.74	1.98
MAX4417ESA+-ND	3V/5V, 400MHz Dual Op Amp with R/R Output* ***NEW!***	8-SOIC	4.11	2.74	1.98
MAX4418EUD+-ND	3V/5V, 400MHz Quad Op Amp with R/R Output* ***NEW!***	14-TSSOP	5.73	3.82	2.76
MAX4450EUK+TCT-ND	210MHz Single Op Amp with R/R Output* ***NEW!***	SOT-23-5	2.28	1.72	1.51
MAX4450EUK+TTR-ND	210MHz Single Op Amp with R/R Output* ***NEW!***	SOT-23-5	2687.50/2,500		
MAX4450EXK+TCT-ND	210MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	2.28	1.72	1.51
MAX4450EXK+TTR-ND	210MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	2687.50/2,500		
MAX4451EKA+TCT-ND	210MHz Dual Op Amp with R/R Output* ***NEW!***	SOT-23-8	3.26	2.46	2.16
MAX4451EKA+TTR-ND	210MHz Dual Op Amp with R/R Output* ***NEW!***	SOT-23-8	3843.75/2,500		
MAX4451ESA+-ND	210MHz Dual Op Amp with R/R Output* ***NEW!***	8-SOIC	2.79	1.86	1.34
MAX4452EUK+TCT-ND	3V/5V, 200MHz Single Op Amp with R/R Output* ***NEW!***	SOT-23-5	2.54	1.92	1.68
MAX4452EUK+TTR-ND	3V/5V, 200MHz Single Op Amp with R/R Output* ***NEW!***	SOT-23-5	3000.00/2,500		
MAX4452EXK+TCT-ND	3V/5V, 200MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	2.54	1.92	1.68
MAX4452EXK+TTR-ND	3V/5V, 200MHz Single Op Amp with R/R Output* ***NEW!***	SC70-5	3000.00/2,500		
MAX4453ESA+-ND	3V/5V, 200MHz Dual Op Amp with R/R Output* ***NEW!***	8-SOIC	3.18	2.12	1.53
MAX4454EUD+-ND	3V/5V, 200MHz Quad Op Amp with R/R Output* ***NEW!***	14-TSSOP	4.26	2.84	2.05
MAX4460ESA+-ND	3V/5V, R/R Output Instrumentation Amp* ***NEW!***	8-SOIC	3.00	2.00	1.45
MAX4461TESA+-ND	3V/5V, R/R Output Instrumentation Amp* ***NEW!***	8-SOIC	3.00	2.00	1.45
MAX4462HESA+-ND	3V/5V, R/R Output Instrumentation Amp* ***NEW!***	8-SOIC	3.00	2.00	1.45
MAX4470EXK+TCT-ND	1.8V, 9kHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1.35	1.02	.90
MAX4470EXK+TTR-ND	1.8V, 9kHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1593.75/2,500		
MAX4472ESD+-ND	1.8V, 9kHz Quad Rail-to-Rail Op Amp* ***NEW!***	14-SOIC	2.76	1.84	1.33
MAX4472EUD+-ND	1.8V, 9kHz Quad Rail-to-Rail Op Amp* ***NEW!***	14-TSSOP	2.76	1.84	1.33
MAX4474EKA+TCT-ND	1.8V, 40kHz Dual Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	2.01	1.52	1.33
MAX4474EKA+TTR-ND	1.8V, 40kHz Dual Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	2375.00/2,500		
MAX4474ESA+-ND	1.8V, 40kHz Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	1.17	1.01	.77
MAX4475ASA+-ND	10MHz Single Low Noise Wide Band R/R Op Amp* ***NEW!***	8-SOIC	1.83	1.22	.88
MAX4475AUA+-ND	10MHz Single Low Noise Wide Band R/R Op Amp* ***NEW!***	8-µMAX	1.83	1.22	.88
MAX4477ASA+-ND	10MHz Dual Low Noise, Wide Band R/R Op Amp*	8-SOIC	2.79	1.86	1.34
MAX4477AUA+-ND	10MHz Dual Low Noise, Wide Band R/R Op Amp*	8-µMAX	2.79	1.86	1.34
MAX4478ASD+-ND	10MHz Quad Low Noise, Wide Band R/R Op Amp* ***NEW!***	14-SOIC	4.11	2.74	1.98
MAX4478AUD+-ND	10MHz Quad Low Noise, Wide Band R/R Op Amp* ***NEW!***	14-TSSOP	4.11	2.74	1.98

*** *RoHS Compliant***

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX4481AUT+TCT-ND	Single Rail-to-Rail Op Amp with Shutdown* ***NEW!***	SOT-23-6	1.01	.76	.67
MAX4481AUT+TTR-ND	Single Rail-to-Rail Op Amp with Shutdown* ***NEW!***	SOT-23-6	1187.50/2,500		
MAX4484AUK+TCT-ND	7MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	1.06	.80	.70
MAX4484AUK+TTR-ND	7MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	1250.00/2,500		
MAX4486ASA+-ND	7MHz, Dual Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	1.68	1.12	.81
MAX4487ASD+-ND	7MHz, Quad Rail-to-Rail Op Amp* ***NEW!***	14-SOIC	2.16	1.44	1.04
MAX4487AUD+-ND	7MHz, Quad Rail-to-Rail Op Amp* ***NEW!***	14-TSSOP	2.16	1.44	1.04
MAX4488AUA+-ND	42MHz Single Low Noise Wide Band R/R Op Amp* ***NEW!***	8-µMAX	1.83	1.22	.88
MAX4489ASA+-ND	42MHz Dual Low Noise Wide Band R/R Op Amp* ***NEW!***	8-SOIC	2.79	1.86	1.34
MAX4489AUA+-ND	42MHz Dual Low Noise, Wide Band R/R Op Amp*	8-µMAX	2.79	1.86	1.34
MAX4490AUK+TCT-ND	10MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	1.38	1.04	.91
MAX4490AUK+TTR-ND	10MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	1625.00/2,500		
MAX4490AXK+TCT-ND	10MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1.38	1.04	.91
MAX4490AXK+TTR-ND	10MHz, Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1625.00/2,500		
MAX4491AUA+-ND	10MHz, Dual Rail-to-Rail Op Amp* ***NEW!***	8-µMAX	2.70	1.80	1.30
MAX4492AUD+-ND	10MHz, Quad Rail-to-Rail Op Amp* ***NEW!***	14-TSSOP	4.68	3.12	2.26
MAX4493AXK+TCT-ND	5MHz, Single Low Power Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1.83	1.38	1.21
MAX4493AXK+TTR-ND	5MHz, Single Low Power Rail-to-Rail Op Amp* ***NEW!***	SC70-5	2156.25/2,500		
MAX4494AKA+TCT-ND	5MHz, Dual Low Power Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	2.25	1.70	1.49
MAX4494AKA+TTR-ND	5MHz, Dual Low Power Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	2656.25/2,500		
MAX4494ASA+-ND	5MHz, Dual Low Power Rail-to-Rail Op Amp* ***NEW!***	8-SOIC	2.04	1.36	.98
MAX4494AUA+-ND	5MHz, Dual Low Power Rail-to-Rail Op Amp* ***NEW!***	8-µMAX	2.04	1.36	.98
MAX9000ESA+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	8-SOIC	5.40	3.60	2.61
MAX9000EUA+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	8-µMAX	5.40	3.60	2.61
MAX9001ESD+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	14-SOIC	5.67	3.78	2.74
MAX9001EUB+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	10-µMAX	5.67	3.78	2.74
MAX9002EUA+-ND	Low Power Op Amp + Comparator* ***NEW!***	8-µMAX	3.60	2.40	1.74
MAX9003ESA+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	8-SOIC	5.40	3.60	2.61
MAX9003EUA+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	8-µMAX	5.40	3.60	2.61
MAX9004ESD+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	14-SOIC	5.67	3.78	2.74
MAX9004EUB+-ND	Low Power Op Amp + Comparator w/ Reference* ***NEW!***	10-µMAX	5.67	3.78	2.74
MAX9005ESA+-ND	Low Power Op Amp + Comparator* ***NEW!***	8-SOIC	3.60	2.40	1.74
MAX9005EUA+-ND	Low Power Op Amp + Comparator* ***NEW!***	8-µMAX	3.60	2.40	1.74
MAX9010EXT+TCT-ND	Single Supply, Precison TTL Comparator* ***NEW!***	SC70-6	2.36	1.78	1.56
MAX9010EXT+TTR-ND	Single Supply, Precison TTL Comparator* ***NEW!***	SC70-6	2781.25/2,500		
MAX9011EUT+TCT-ND	Single Supply, Precison TTL Comparator* ***NEW!***	SOT-23-6	2.31	1.74	1.53
MAX9011EUT+TTR-ND	Single Supply, Precison TTL Comparator* ***NEW!***	SOT-23-6	2718.75/2,500		
MAX9012ESA+-ND	Single Supply, Precison TTL Comparator* ***NEW!***	8-SOIC	4.05	2.70	1.95
MAX9012EUA+-ND	Single Supply, Precison TTL Comparator* ***NEW!***	8-µMAX	4.05	2.70	1.95
MAX9013ESA+-ND	Single Supply, Precison TTL Comparator* ***NEW!***	8-SOIC	3.78	2.52	1.82
MAX9013EUA+-ND	Single Supply, Precison TTL Comparator* ***NEW!***	8-µMAX	3.78	2.52	1.82
MAX9015AEKA+TCT-ND	Single, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1.88	1.42	1.25
MAX9015AEKA+TTR-ND	Single, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2218.75/2,500		
MAX9016AEKA+TCT-ND	Single, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1.88	1.42	1.25
MAX9016AEKA+TTR-ND	Single, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2218.75/2,500		
MAX9017AEKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2.49	1.88	1.65
MAX9017AEKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2937.50/2,500		
MAX9017BEKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2.01	1.52	1.33
MAX9017BEKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2375.00/2,500		
MAX9018AEKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2.49	1.88	1.65
MAX9018AEKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2937.50/2,500		
MAX9018BEKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2.01	1.52	1.33
MAX9018BEKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	2375.00/2,500		
MAX9019EKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1.46	1.10	.97
MAX9019EKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1718.75/2,500		
MAX9020EKA+TCT-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1.46	1.10	.97
MAX9020EKA+TTR-ND	Dual, 1.8V, Precison Nanopower Comparator* ***NEW!***	SOT-23-8	1718.75/2,500		
MAX9021AXK+TCT-ND	Single, 2.5V, Micropower Comparator* ***NEW!***	SC70-5	.95	.72	.63
MAX9021AXK+TTR-ND	Single, 2.5V, Micropower Comparator* ***NEW!***	SC70-5	1125.00/2,500		
MAX9022AKA+TCT-ND	Dual, 2.5V, Micropower Comparator* ***NEW!***	SOT-23-8	1.38	1.04	.91
MAX9022AKA+TTR-ND	Dual, 2.5V, Micropower Comparator* ***NEW!***	SOT-23-8	1625.00/2,500		
MAX9022ASA+-ND	Dual, 2.5V, Micropower Comparator* ***NEW!***	8-SOIC	1.23	.82	.59
MAX9022AUA+-ND	Dual, 2.5V, Micropower Comparator* ***NEW!***	8-µMAX	1.23	.82	.59
MAX9024ASD+-ND	Quad, 2.5V, Micropower Comparator* ***NEW!***	14-SOIC	1.77	1.18	.85
MAX9025EBT+TCT-ND	1.8V Nanopower Comparator with Reference* ***NEW!***	6-UCSP	1.51	1.14	1.00
MAX9025EBT+TTR-ND	1.8V Nanopower Comparator with Reference* ***NEW!***	6-UCSP	1781.25/2,500		
MAX9026EBT+TCT-ND	1.8V Nanopower Comparator with Reference* ***NEW!***	6-UCSP	1.51	1.14	1.00
MAX9026EBT+TTR-ND	1.8V Nanopower Comparator with Reference* ***NEW!***	6-UCSP	1781.25/2,500		
MAX9027EBT+TCT-ND	1.8V Nanopower Comparator* ***NEW!***	6-UCSP	1.01	.76	.67
MAX9027EBT+TTR-ND	1.8V Nanopower Comparator* ***NEW!***	6-UCSP	1187.50/2,500		
MAX9030AUT+TCT-ND	Single, 2.5V Comparator with Shutdown* ***NEW!***	SOT-23-6	.98	.74	.65
MAX9030AUT+TTR-ND	Single, 2.5V Comparator with Shutdown* ***NEW!***	SOT-23-6	1156.25/2,500		
MAX9030AXT+TCT-ND	Single, 2.5V Comparator with Shutdown* ***NEW!***	SC70-6	.98	.74	.65
MAX9030AXT+TTR-ND	Single, 2.5V Comparator with Shutdown* ***NEW!***	SC70-6	1156.25/2,500		
MAX9031AUK+TCT-ND	Single, 2.5V Comparator*	SOT-23-5	.87	.66	.58
MAX9031AUK+TTR-ND	Single, 2.5V Comparator*	SOT-23-5	1031.25/2,500		
MAX9031AXK+TCT-ND	Single, 2.5V Comparator* ***NEW!***	SC70-5	.87	.66	.58
MAX9031AXK+TTR-ND	Single, 2.5V Comparator* ***NEW!***	SC70-5	1031.25/2,500		
MAX9032AKA+TCT-ND	Dual, 2.5V Comparator* ***NEW!***	SOT-23-8	1.03	.78	.69
MAX9032AKA+TTR-ND	Dual, 2.5V Comparator* ***NEW!***	SOT-23-8	1218.75/2,500		
MAX9032ASA+-ND	Dual, 2.5V Comparator* ***NEW!***	8-SOIC	1.17	.78	.56
MAX9032AUA+-ND	Dual, 2.5V Comparator* ***NEW!***	8-µMAX	1.17	.78	.56
MAX9034AUD+-ND	Quad, 2.5V Comparator* ***NEW!***	14-TSSOP	1.68	1.12	.81
MAX9041AESA+-ND	Single, 2.5V Micropower Comparator with Ref.* ***NEW!***	8-SOIC	3.36	2.24	1.62
MAX9042BEUA+-ND	Dual, 2.5V Micropower Comparator with Ref.* ***NEW!***	8-µMAX	3.51	2.34	1.69
MAX9043AEUB+-ND	Dual, 2.5V Micropower Comparator with Ref.* ***NEW!***	10-µMAX	4.41	2.94	2.13
MAX9043BEUB+-ND	Dual, 2.5V Micropower Comparator with Ref.* ***NEW!***	10-µMAX	3.66	2.44	1.76
MAX9050AEUK+TCT-ND	Single, 2.7V Micropower Comparator with Ref.* ***NEW!***	SOT-23-5	2.33	1.76	1.54
MAX9050AEUK+TTR-ND	Single, 2.7V Micropower Comparator with Ref.* ***NEW!***	SOT-23-5	2750.00/2,500		
MAX9050BEUK+TCT-ND	Single, 2.7V Micropower Comparator with Ref.* ***NEW!***	SOT-23-5	3.26	2.46	2.16
MAX9050BEUK+TTR-ND	Single, 2.7V Micropower Comparator with Ref.* ***NEW!***	SOT-23-5	3843.75/2,500		
MAX9052AESA+-ND	Dual, 2.7V Micropower Comparator with Ref.* ***NEW!***	8-SOIC	4.26	2.84	2.05
MAX9053AEUB+-ND	Dual, 2.7V Micropower Comparator with Ref.* ***NEW!***	10-µMAX	4.41	2.94	2.13
MAX9062EUK+TCT-ND	Single, 1V Low Power Comparator w/ Reference* ***NEW!***	SOT-23-5	.87	.66	.58
MAX9062EUK+TTR-ND	Single, 1V Low Power Comparator w/ Reference* ***NEW!***	SOT-23-5	1031.25/2,500		
MAX9064EUK+TCT-ND	Single, 1V Low Power Comparator w/ Reference* ***NEW!***	SOT-23-5	.87	.66	.58
MAX9064EUK+TTR-ND	Single, 1V Low Power Comparator w/ Reference* ***NEW!***	SOT-23-5	1031.25/2,500		
MAX9075EUK+TCT-ND	Single, 2.1V Comparator* ***NEW!***	SOT-23-5	2.20	1.66	1.46
MAX9075EUK+TTR-ND	Single, 2.1V Comparator* ***NEW!***	SOT-23-5	2593.75/2,500		
MAX9075EXK+TCT-ND	Single, 2.1V Comparator* ***NEW!***	SC70-5	2.20	1.66	1.46
MAX9075EXK+TTR-ND	Single, 2.1V Comparator* ***NEW!***	SC70-5	2593.75/2,500		
MAX9077EKA+TCT-ND	Dual, 2.1V Comparator* ***NEW!***	SOT-23-8	2.16	2.46	2.16
MAX9077EKA+TTR-ND	Dual, 2.1V Comparator* ***NEW!***	SOT-23-8	3843.75/2,500		
MAX9077ESA+-ND	Dual, 2.1V Comparator* ***NEW!***	8-SOIC	2.70	1.80	1.30
MAX9100EUK+TCT-ND	1V Micropower Comparator* ***NEW!***	SOT-23-5	1.91	1.44	1.26
MAX9100EUK+TTR-ND	1V Micropower Comparator* ***NEW!***	SOT-23-5	2250.00/2,500		
MAX9107EKA+TCT-ND	Dual, 4.5V High Speed Comparator* ***NEW!***	SOT-23-8	2.81	2.12	1.86
MAX9107EKA+TTR-ND	Dual, 4.5V High Speed Comparator* ***NEW!***	SOT-23-8	3312.50/2,500		
MAX9107ESA+-ND	Dual, 4.5V High Speed Comparator* ***NEW!***	8-SOIC	2.79	1.86	1.34
MAX9108ESD+-ND	Quad, 4.5V High Speed Comparator* ***NEW!***	14-SOIC	4.14	2.76	2.00
MAX9108EUD+-ND	Quad, 4.5V High Speed Comparator* ***NEW!***	14-TSSOP	4.14	2.76	2.00
MAX9109ESA+-ND	Single, 4.5V High Speed Comparator* ***NEW!***	8-SOIC	1.83	1.22	.88
MAX9109EUT+TCT-ND	Single, 4.5V High Speed Comparator* ***NEW!***	SOT-23-6	1.86	1.40	1.23
MAX9109EUT+TTR-ND	Single, 4.5V High Speed Comparator* ***NEW!***	SOT-23-6	2187.50/2,500		
MAX9109EXT+TCT-ND	Single, 4.5V High Speed Comparator* ***NEW!***	SC70-6	2.81	2.12	1.86
MAX9109EXT+TTR-ND	Single, 4.5V High Speed Comparator* ***NEW!***	SC70-6	3312.50/2,500		
MAX9117EXK+TCT-ND	Single, 1.6V Nanopower Comparator with Ref.* ***NEW!***	SC70-5	2.99	2.26	1.98
MAX9117EXK+TTR-ND	Single, 1.6V Nanopower Comparator with Ref.* ***NEW!***	SC70-5	3531.25/2,500		
MAX9118EXK+TCT-ND	Single, 1.6V Nanopower Comparator with Ref.* ***NEW!***	SC70-5	2.99	2.26	1.98
MAX9118EXK+TTR-ND	Single, 1.6V Nanopower Comparator with Ref.* ***NEW!***	SC70-5	3531.25/2,500		
MAX9119EXK+TCT-ND	Single, 1.6V Nanopower Comparator* ***NEW!***	SC70-5	2.07	1.56	1.37
MAX9119EXK+TTR-ND	Single, 1.6V Nanopower Comparator* ***NEW!***	SC70-5	2437.50/2,500		
MAX9120EXK+TCT-ND	Single, 1.6V Nanopower Comparator* ***NEW!***	SC70-5	2.07	1.56	1.37
MAX9120EXK+TTR-ND	Single, 1.6V Nanopower Comparator* ***NEW!***	SC70-5	2437.50/2,500		
MAX9140AAUK+TCT-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-5	2.07	1.56	1.37
MAX9140AAUK+TTR-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-5	2437.50/2,500		
MAX9140EUK+TCT-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-5	1.72	1.30	1.14
MAX9140EUK+TTR-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-5	2031.25/2,500		
MAX9140EXK+TCT-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SC70-5	1.72	1.30	1.14
MAX9140EXK+TTR-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SC70-5	2031.25/2,500		
MAX9141ESA+-ND	Single, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	8-SOIC	1.68	1.12	.81
MAX9142EKA+TCT-ND	Dual, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-8	2.60	1.96	1.72
MAX9142EKA+TTR-ND	Dual, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	SOT-23-8	3062.50/2,500		
MAX9144ESD+-ND	Quad, 40nS, Low Power, 3V/5V R/R Comparator*	14-SOIC	3.63	2.42	1.75
MAX9144EUD+-ND	Quad, 40nS, Low Power, 3V/5V R/R Comparator* ***NEW!***	14-TSSOP	3.63	2.42	1.75
MAX9201ESE+-ND	Quad, 7nS, Low Power Voltage Comparator* ***NEW!***	16-SOIC	6.39	4.26	3.08
MAX9201EUE+-ND	Quad, 7nS, Low Power Voltage Comparator*	16-TSSOP	6.39	4.26	3.08
MAX9202ESD+-ND	Dual, 7nS, Low Power Voltage Comparator*	14-SOIC	4.68	3.12	2.26
MAX9202EUD+-ND	Dual, 7nS, Low Power Voltage Comparator*	14-TSSOP	4.68	3.12	2.26
MAX9203EKA+TCT-ND	Single, 7nS, Low Power Voltage Comparator* ***NEW!***	SOT-23-8	3.15	2.38	2.09
MAX9203EKA+TTR-ND	Single, 7nS, Low Power Voltage Comparator* ***NEW!***	SOT-23-8	3718.75/2,500		
MAX9203ESA+-ND	Single, 7nS, Low Power Voltage Comparator*	8-SOIC	2.82	1.88	1.36
MAX9502GAALT+TCT-ND	2.5V Video Amp with Reconstruction Filter* ***NEW!***	6-µDFN	1.22	.92	.81
MAX9502GAALT+TTR-ND	2.5V Video Amp with Reconstruction Filter* ***NEW!***	6-µDFN	1437.50/2,500		
MAX9502GEXK+TCT-ND	2.5V Video Amp with Reconstruction Filter*	SC70-5	1.17	.88	.77
MAX9502GEXK+TTR-ND	2.5V Video Amp with Reconstruction Filter*	SC70-5	1375.00/2,500		
MAX9502GELT+TCT-ND	2.5V Video Amp with Reconstruction Filter*	6-µDFN	1.22	.92	.81
MAX9502GELT+TTR-ND	2.5V Video Amp with Reconstruction Filter*	6-µDFN	1437.50/2,500		
MAX9503GETE+TCT-ND	DirectDrive® Video Amp with Reconstruction Filter*	16-TQFN	1.70	1.28	1.12
MAX9503GEEE+TCT-ND	DirectDrive® Video Amp with Reconstruction Filter*	16-QSOP	1.56	1.18	1.04
MAX9503GEEE+TTR-ND	DirectDrive® Video Amp with Reconstruction Filter*	16-QSOP	1843.75/2,500		
MAX9504BEUT+TCT-ND	2.7V Video Amp with High Output Current* ***NEW!***	SOT-23-6	1.06	.80	.70
MAX9504BEUT+TTR-ND	2.7V Video Amp with High Output Current* ***NEW!***	SOT-23-6	1250.00/2,500		
MAX9505ETE+TCT-ND	DirectDrive® Video Amp with Reconstruction Filter*	16-TQFN	2.04	1.54	1.35
MAX9505ETE+TTR-ND	DirectDrive® Video Amp with Reconstruction Filter*	16-TQFN	2406.25/2,500		
MAX9516ALB+TCT-ND	DirectDrive® Video Amp with Load Detect* ***NEW!***	10-µDFN	1.35	1.02	.90
MAX9516ALB+TTR-ND	DirectDrive® Video Amp with Load Detect* ***NEW!***	10-µDFN	1593.75/2,500		
MAX9550EZK+TCT-ND	High-Current VCOM Drive Buffer for TFT LCD* ***NEW!***	SOT-23-5	1.19	.90	.79
MAX9550EZK+TTR-ND	High-Current VCOM Drive Buffer for TFT LCD* ***NEW!***	SOT-23-5	1406.25/2,500		
MAX9586AZK+TCT-ND	Single Video Filter Amp with AC Coupled Input Buffer* ***NEW!***	SOT-23-5	.90	.68	.60
MAX9586AZK+TTR-ND	Single Video Filter Amp with AC Coupled Input Buffer* ***NEW!***	SOT-23-5	1062.50/2,500		
MAX9587AZT+TCT-ND	Dual Video Filter Amp w/ AC Coupled Input Buffer* ***NEW!***	SOT-23-6	1.22	.92	.81
MAX9587AZT+TTR-ND	Dual Video Filter Amp w/ AC Coupled Input Buffer* ***NEW!***	SOT-23-6	1437.50/2,500		
MAX9600EUP+-ND	Dual ECL/Dual PECL Output, 500ps Comparator* ***NEW!***	20-TSSOP	12.75	8.50	6.16
MAX9601EUP+-ND	Dual ECL/Dual PECL Output, 500ps Comparator*	20-TSSOP	12.75	8.50	6.16
MAX9602EUG+-ND	Quad PECL Output, 500ps Comparator* ***NEW!***	24-TSSOP	19.14	12.76	9.25
MAX9610FELT+TCT-ND	50V/V Precision Current Sense Amp* ***NEW!***	6-µDFN	1.59	1.20	1.05
MAX9610FELT+TTR-ND	50V/V Precision Current Sense Amp* ***NEW!***	6-µDFN	1875.00/2,500		
MAX9691EPA+-ND	Single Ultra-Fast ECL-Output Comparator* ***NEW!***	8-Dip	7.05	4.70	3.40
MAX9691ESA+-ND	Single Ultra-Fast ECL-Output Comparator* ***NEW!***	8-SOIC	7.05	4.70	3.40
MAX9691EUA+-ND	Single Ultra-Fast ECL-Output Comparator* ***NEW!***	8-µMAX	7.05	4.70	3.40
MAX9692EUB+-ND	Single Ultra-Fast ECL-Output Comparator* ***NEW!***	10-µMAX	7.41	4.94	3.58
MAX9693ESE+-ND	Dual Ultra-Fast ECL-Output Comparator* ***NEW!***	16-SOIC	9.21	6.14	4.45
MAX9703ETJ+-ND	10W Stereo/15W Mono Class D Amplifier*	32-TQFN-EP	3.54	2.36	1.71
MAX9705BETB+TCT-ND	2.3W Mono/Stereo Class D Amplifier* ***NEW!***	10-TDFN	1.06	.80	.70
MAX9705BETB+TTR-ND	2.3W Mono/Stereo Class D Amplifier* ***NEW!***	10-TDFN	1250.00/2,500		
MAX9708ETN+D-ND	42W Mono/Stereo Class D Amplifier* ***NEW!***	56-TQFN	8.43	5.62	4.07
MAX9709ETN+D-ND	25W/50W, Filterless, Spread-Spectrum, Stereo/Mono Class D Amp*	56-TQFN	8.94	5.96	4.32
MAX9713ETJ+-ND	6W Filterless Mono/Stereo Class D Amplifier*	32-TQFN-EP	3.54	2.36	1.71
MAX9715ETE+-ND	2.8W Stereo Class D Amplifier* ***NEW!***	16-TQFN	2.79	1.86	1.34
MAX9716ETA+TCT-ND	1.4W Mono Class AB Amplifier* ***NEW!***	8-TDFN	.90	.68	.60
MAX9716ETA+TTR-ND	1.4W Mono Class AB Amplifier* ***NEW!***	8-TDFN	1062.50/2,500		
MAX9718AETB+TCT-ND	1.4W Mono Class AB Amplifier* ***NEW!***	10-TDFN	.90	.68	.60
MAX9718AETB+TTR-ND	1.4W Mono Class AB Amplifier* ***NEW!***	10-TDFN	1062.50/2,500		
MAX9722AETE+TCT-ND	DirectDrive® .13W Stereo Class AB Amplifier* ***NEW!***	16-TQFN	1.40	1.06	.93
MAX9722AETE+TTR-ND	DirectDrive® .13W Stereo Class AB Amplifier* ***NEW!***	16-TQFN	1656.25/2,500		
MAX9723DETE+-ND	DirectDrive® .06W Stereo Class AB Amplifier* ***NEW!***	16-TQFN	1.71	1.14	.82
MAX9724AETC+-ND	DirectDrive® .06W Stereo Class AB Amplifier* ***NEW!***	12-TQFN	1.29	.86	.62
MAX9725CETC+TCT-ND	DirectDrive® .025W Stereo Class AB Amplifier* ***NEW!***	12-TQFN	1.40	1.06	.93
MAX9725CETC+TTR-ND	DirectDrive® .025W Stereo Class AB Amplifier* ***NEW!***	12-TQFN	1656.25/2,500		
MAX9728AETC+-ND	DirectDrive® .06W Stereo Class AB Amplifier* ***NEW!***	12-TQFN	1.29	.86	.62
MAX9729ETI+-ND	DirectDrive® .052W Stereo Class AB Amplifier* ***NEW!***	28-TQFN	2.40	1.60	1.16
MAX9736AETJ+-ND	.035W Mono/Stereo Class D Amplifier* ***NEW!***	32-TQFN	3.84	2.56	1.85
MAX9736BETJ+-ND	.015W Mono/Stereo Class D Amplifier* ***NEW!***	32-TQFN	3.54	2.36	1.71
MAX9744ETH+-ND	22.5W Stereo Class D Amplifier* ***NEW!***	44-TQFN	4.83	3.22	2.33
MAX9759ETE+-ND	3.2W Mono Class D Amplifier* ***NEW!***	16-TQFN	2.13	1.42	1.02
MAX9768BETG+-ND	10W Mono Class D Amplifier* ***NEW!***	24-TQFN	2.55	1.70	1.23
MAX9776ETJ+-ND	DirectDrive® 1.5W Mono/Stereo Class D Amplifier* ***NEW!***	32-TQFN	3.12	2.08	1.50
MAX9788ETI+-ND	2.4W Mono Class G Amplifier* ***NEW!***	28-TQFN	1.83	1.22	.88
MAX9789AETJ+-ND	DirectDrive® 2W Stereo Class AB Amplifier* ***NEW!***	32-TQFN	2.55	1.70	1.23
MAX9812HEXT+TCT-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SC70-6	.74	.56	.49
MAX9812HEXT+TTR-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SC70-6	875.00/2,500		
MAX9812LEXT+TCT-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SC70-6	.74	.56	.49
MAX9812LEXT+TTR-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SC70-6	875.00/2,500		
MAX9813HEKA+TCT-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SOT23-8	1.19	.90	.79
MAX9813HEKA+TTR-ND	Mono Class AB Microphone Amplifier* ***NEW!***	SOT23-8	1406.25/2,500		
MAX9814ETD+TCT-ND	Mono Class AB Microphone Amplifier* ***NEW!***	14-TDFN	1.22	.92	.81
MAX9814ETD+TTR-ND	Mono Class AB Microphone Amplifier* ***NEW!***	14-TDFN	1437.50/2,500		
MAX9820ETB+TCT-ND	DirectDrive® Headphone Amp w/ External Gain* ***NEW!***	10-TDFN-EP	1.11	.84	.74
MAX9820ETB+TTR-ND	DirectDrive® Headphone Amp w/ External Gain* ***NEW!***	10-TDFN-EP	1312.50/2,500		
MAX9850ETI+-ND	DirectDrive® .095W Stereo Class AB Amplifier* ***NEW!***	28-TQFN	2.82	1.88	1.36

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

AMPLIFIERS AND COMPARATORS

Digi-Reel® *(Cont.)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX9851ETM+-ND	DirectDrive® Stereo Audio Codec* ***NEW!***	48-TQFN-EP	6.09	4.06	2.94
MAX9856ETL+-ND	DirectDrive® Stereo Audio Low Power Codec* ***NEW!***	40-TQFN-EP	4.95	3.30	2.39
MAX9867EWV+TCT-ND	Ultra-Low Power Stereo Audio Codec* ***NEW!***	30-WLP	2.39	1.80	1.58
MAX9867EWV+TTR-ND	Ultra-Low Power Stereo Audio Codec* ***NEW!***	30-WLP	2812.50/2,500		
MAX9890BETA+TCT-ND	Audio Click-Pop Suppressor* ***NEW!***	8-TDFN-EP	.95	.72	.63
MAX9890BETA+TTR-ND	Audio Click-Pop Suppressor* ***NEW!***	8-TDFN-EP	1125.00/2,500		
MAX9910EXK+TCT-ND	200kHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	.95	.72	.63
MAX9910EXK+TTR-ND	200kHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1125.00/2,500		
MAX9911EXT+TCT-ND	200kHz Single Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	SC70-6	.95	.72	.63
MAX9911EXT+TTR-ND	200kHz Single Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	SC70-6	1125.00/2,500		
MAX9913EUB+-ND	200kHz Dual Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	10-µMAX	1.62	1.08	.78
MAX9914EXK+TCT-ND	1MHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	.95	.72	.63
MAX9914EXK+TTR-ND	1MHz Single Rail-to-Rail Op Amp* ***NEW!***	SC70-5	1125.00/2,500		
MAX9915EXT+TCT-ND	1MHz Single Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	SC70-6	.95	.72	.63
MAX9915EXT+TTR-ND	1MHz Single Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	SC70-6	1125.00/2,500		
MAX9916EKA+TCT-ND	1MHz Dual Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	1.43	1.08	.95
MAX9916EKA+TTR-ND	1MHz Dual Rail-to-Rail Op Amp* ***NEW!***	SOT-23-8	1687.50/2,500		
MAX9917EUB+-ND	1MHz Dual Rail-to-Rail Op Amp w/ Shutdown* ***NEW!***	10-µMAX	1.62	1.08	.78
MAX9928FAUA+-ND	5µA/mV, Micropower Current-Sense Amp* ***NEW!***	8-µMAX	2.40	1.60	1.16
MAX9929FAUA+-ND	50V/V, Micropower Current-Sense Amp* ***NEW!***	8-µMAX	2.40	1.60	1.16
MAX9937AXK+TCT-ND	Automotive Current-Sense Amp* ***NEW!***	SC70-5	1.46	1.10	.97
MAX9937AXK+TTR-ND	Automotive Current-Sense Amp* ***NEW!***	SC70-5	1718.75/2,500		
MAX9938FEUK+TCT-ND	50V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1.59	1.20	1.05
MAX9938FEUK+TTR-ND	50V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1875.00/2,500		
MAX9938HEUK+TCT-ND	100V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1.59	1.20	1.05
MAX9938HEUK+TTR-ND	100V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1875.00/2,500		
MAX9938TEUK+TCT-ND	25V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1.59	1.20	1.05
MAX9938TEUK+TTR-ND	25V/V, Precision Current-Sense Amp* ***NEW!***	SOT-23-5	1875.00/2,500		
MAX9939AUB+-ND	SPI Programmable Gain Amplifier* ***NEW!***	10-µMAX	1.70	1.48	1.13
MAX9943AUA+-ND	High Voltage, Single Precision Op Amp* ***NEW!***	8-µMAX	1.34	1.17	.89
MAX9944ASA+-ND	High Voltage, Dual Precision Op Amp* ***NEW!***	8-SOIC	2.23	1.95	1.48
MAX9945ATT+TCT-ND	38V, Low Noise MOS-Input Op Amp* ***NEW!***	6-TDFN-EP	1.88	1.42	1.25
MAX9945ATT+TTR-ND	38V, Low Noise MOS-Input Op Amp* ***NEW!***	6-TDFN-EP	2218.75/2,500		
MXL1016CS8+-ND	Ultra-Fast Precision TTL Comparator* ***NEW!***	8-SOIC	6.33	4.22	3.05

DATA CONVERSION

Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS4432U+-ND	2-Channel I^{2}C Sink / Source Current DAC* ***NEW!***	8-µSOP	1.35	.90	.65
ICL7106CPL+-ND	3.5 Digit Monolithic ADC* ***NEW!***	40-Dip	8.10	6.48	5.74
ICL7106CQH+D-ND	3.5 Digit Monolithic ADC* ***NEW!***	44-PLCC	11.34	8.56	7.49
ICL7107CMH+D-ND	3.5 Digit Monolithic ADC* ***NEW!***	44-MQFD	7.55	6.04	5.35
ICL7107CQH+D-ND	3.5 Digit Monolithic ADC* ***NEW!***	44-PLCC	11.34	8.56	7.49
ICL7109CMH+D-ND	12-Bit ADC with Tri-State Binary Outputs* ***NEW!***	44-MQFD	14.78	11.82	10.47
ICL7109CQH+D-ND	12-Bit ADC with Tri-State Binary Outputs* ***NEW!***	44-PLCC	22.18	16.74	14.65
ICL7116CPL+-ND	3.5 Digit ADC with Display Hold* ***NEW!***	40-Dip	8.10	6.48	5.74
ICL7126CPL+-ND	3.5 Digit Low Power ADC* ***NEW!***	40-Dip	8.10	6.48	5.74
ICL7136CQH+D-ND	3.5 Digit Low Power ADC* ***NEW!***	44-PLCC	11.24	8.48	7.42
MAX110BCPE+-ND	2-Channel, ±14-Bit Serial ADC*	16-Dip	10.55	8.37	6.59
MAX110BCWE+-ND	2-Channel, ±14-Bit Serial ADC*	16-SOIC	10.55	8.37	6.59
MAX111BEPE+-ND	2-Channel, 14-Bit Serial ADC*	16-Dip	13.19	10.47	8.25
MAX111BEWE+-ND	2-Channel, 14-Bit Serial ADC*	16-SOIC	13.19	10.47	8.25
MAX114CAG+-ND	5V, 4-Channel, 8-Bit ADC with 1µA Power-Down*	24-SSOP	7.70	6.12	4.83
MAX117CPI-ND	3V, 8-Channel, 8-Bit Parallel Output ADC	28-Dip	10.97	8.28	5.32
MAX118CAI+-ND	5V, 8-Channel, 8-Bit ADC with 1µA Power-Down*	28-SSOP	7.95	6.31	4.98
MAX120CNG+-ND	500kSPS, 12-Bit ADC with Track/Hold and Reference*	24-Dip	33.22	26.37	20.78
MAX121CPE+-ND	308kSPS ADC with DSP 78dB Interface/Serial ADC*	16-Dip	26.37	20.95	16.49
MAX121CWE+-ND	308kSPS ADC with DSP 78dB Interface/Serial ADC*	16-SOIC	26.37	20.95	16.49
MAX125CCAX+D-ND	2x4 Ch., Simultaneous-Sampling 14-Bit DAS*	36-SSOP	30.56	24.27	19.12
MAX125CEAX+D-ND	2x4 Ch., Simultaneous-Sampling 14-Bit DAS*	36-SSOP	31.78	25.24	19.87
MAX127BCAI+-ND	Multirange, +5V, 12-Bit DAS*	28-SSOP	21.08	16.74	13.18
MAX127BEAI+-ND	Multirange, +5V, 12-Bit DAS with Serial Interface*	28-SSOP	24.23	19.24	15.15
MAX128BEAI+-ND	Multirange, +5V, 12-Bit DAS with Serial Interface*	28-SSOP	24.23	19.24	15.15
MAX132CNG+-ND	18-Bit ADC with Serial Interface*	24-Dip	16.60	13.19	10.38
MAX132CWG+-ND	18-Bit ADC with Serial Interface*	24-SOIC	16.60	13.19	10.38
MAX132ENG+-ND	18-Bit ADC with Serial Interface*	24-Dip	23.26	18.47	14.54
MAX132EWG+-ND	18-Bit ADC with Serial Interface*	24-SOIC	23.26	18.47	14.54
MAX133CPL-ND	3-3/4 Digit DMM Circuit	40-Dip	24.62	18.58	11.91
MAX135CPI+-ND	15-Bit Low Power ADC with Parallel Interface*	28-Dip	16.60	13.19	10.38
MAX135CWI+-ND	15-Bit Low Power ADC with Parallel Interface*	28-SOIC	16.60	13.19	10.38
MAX138CPL+-ND	3-1/2 Digit ADC with Bandgap Ref. and Charge Pump Volt Converter and LCD Driver*	40-Dip	16.07	12.76	10.04
MAX146ACAP-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC	20-SSOP	25.12	18.96	11.16
MAX146ACAP+-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	18.97	15.07	11.85
MAX146BEAP+-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	18.97	15.07	11.85
MAX147BCAP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-SSOP	12.64	10.04	7.44
MAX147BCPP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-Dip	12.64	10.04	7.44
MAX147BEAP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-SSOP	16.44	13.05	9.67
MAX148BEAP+-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC*	20-SSOP	7.54	5.99	4.44
MAX148BCAP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-SSOP	8.82	6.66	4.27
MAX148BCAP+-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC*	20-SSOP	7.25	5.76	4.26
MAX149BEAP+-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC*	20-SSOP	7.77	6.18	4.85
MAX153CPP+-ND	1MSPS, µP-Compatible, 8-Bit ADC with Power Down*	20-Dip	13.77	10.93	8.62
MAX154ACNG-ND	4-Channel ADC with Track and Hold	24-Dip	35.75	26.98	17.30
MAX154BCNG+-ND	4-Channel ADC with Track and Hold*	24-Dip	19.53	15.51	12.20
MAX158ACWI-ND	8-Channel ADC with Track and Hold	28-SOIC	37.02	27.94	17.92
MAX165BCPN-ND	CMOS µP Compatible 5µS 8-Bit ADC with Track Hold and Reference	18-Dip	11.24	8.48	5.44
MAX165BCPN+-ND	CMOS µP Compatible 5µS 8-Bit ADC with Track Hold and Reference*	18-Dip	8.48	6.74	5.30
MAX166BCPP-ND	Diff. Input, 5µS, 8-Bit ADC with Track Hold and Ref.	20-Dip	11.98	9.04	5.80
MAX172BCNG+-ND	Complete 10µS CMOS 12-Bit ADC*	24-Dip	22.42	17.80	14.02
MAX174CCPI+-ND	12-Bit ADC with Reference*	28-Dip	65.68	52.16	41.07
MAX176BCPA+-ND	Serial Output, 12-Bit 250kSPS ADC*	8-Dip	27.41	21.77	17.13
MAX180BCPL+-ND	8-Channel 12-Bit Data Acquisition System*	40-Dip	40.58	32.23	25.37
MAX186BCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC*	20-Dip	27.00	21.44	16.87
MAX186BEAP+-ND	Low Power 8-Channel Serial 12-Bit ADC*	20-SSOP	36.84	29.25	23.03
MAX186BCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC*	20-SOIC	27.00	21.44	16.87
MAX186CCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC* ***NEW!***	20-Dip	19.27	15.31	12.05
MAX186CCWP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Ref.*	20-SOIC	19.27	15.31	12.05
MAX186CEAP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Ref.*	20-SSOP	26.32	20.90	16.45
MAX186DCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	17.79	14.12	11.13
MAX186DCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SOIC	17.79	14.12	11.13
MAX186DEAP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Ref.*	20-SSOP	24.29	19.29	15.18
MAX187ACPA+-ND	LP 12-Bit Serial ADC with Track and Hold*	8-Dip	20.89	16.59	13.05

DATA CONVERSION

Digi-Reel® *(Cont.)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX187BCPA+-ND	Low Power 12-Bit Serial ADC with Track and Hold*	8-Dip	16.41	13.02	10.27
MAX187BCWE+-ND	Low Power 12-Bit Serial ADC with Track and Hold*	16-SOIC	16.41	13.02	10.27
MAX187BEWE+-ND	LP 12-Bit Serial ADC with Track and Hold*	16-SOIC	21.32	16.92	13.33
MAX187CEWE+-ND	LP 12-Bit Serial ADC with Track and Hold*	16-SOIC	19.25	15.29	12.04
MAX188BCPP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-Dip	32.70	24.68	15.82
MAX188BCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	24.66	19.58	15.43
MAX188DCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	16.79	13.34	10.50
MAX188DCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SOIC	16.79	13.34	10.50
MAX189CCPA+-ND	5V Low Power 12-Bit Serial A/D Converter*	8-Dip	13.81	10.97	8.64
MAX191BCNG+-ND	Low Power, 12-Bit ADC with Reference*	24-Dip	19.93	15.84	12.47
MAX191BCWG+-ND	LP, 12-Bit Sampling ADC w/Internal Ref./Power Down*	24-SOIC	19.93	15.84	12.47
MAX192BEAP+-ND	Low Power 8-Channel 10-Bit, 133kHz ADC*	20-SSOP	18.27	14.52	11.43
MAX192BEWP+-ND	Low Power 8-Channel 10-Bit, 133kHz ADC*	20-SOIC	16.63	13.21	10.39
MAX192BCWP+-ND	Low Power 8-Channel 10-Bit, 133kHz ADC*	20-SOIC	12.78	10.15	8.00
MAX194BCWE+-ND	14-Bit, 85kSPS ADC with 10µA Shutdown*	16-SOIC	30.41	24.15	19.02
MAX194BEWE+-ND	14-Bit, 85kSPS ADC with 10µA Shutdown*	16-SOIC	39.54	31.40	24.73
MAX195BCPE+-ND	16-Bit, 85kSPS ADC with 10µA Shutdown*	16-Dip	56.04	44.51	35.04
MAX195BCWE-ND	16-Bit, 85kSPS ADC with 10µA Shutdown	16-SOIC	74.28	56.06	33.64
MAX195BCWE+-ND	16-Bit, 85kSPS ADC with 10µA Shutdown*	16-SOIC	56.04	44.51	35.04
MAX195BEWE+-ND	16-Bit, 85kSPS ADC with 10µA Shutdown*	16-SOIC	72.86	57.86	45.55
MAX196BCAI+-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface*	28-SSOP	23.46	18.63	14.67
MAX196BCNI+-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface*	28-Dip	22.55	17.91	14.12
MAX197ACNI+-ND	8-Ch. Multi-Range 12-Bit DAS Parallel Interface*	28-Dip	29.32	23.29	18.33
MAX197ACWI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SOIC	29.32	23.29	18.33
MAX197BCAI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SSOP	23.46	18.63	14.67
MAX197BCNI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-Dip	22.55	17.91	14.12
MAX197BCWI+-ND	8-Ch. Multi-Range 12-Bit DAS Parallel Interface*	28-SOIC	22.55	17.91	14.12
MAX197BEAI+-ND	8-Ch. Multi-Range 12-Bit DAS Parallel Interface*	28-SSOP	30.49	24.22	19.07
MAX197BENI+-ND	8-Ch. Multi-Range 12-Bit DAS Parallel Interface*	28-Dip	29.32	23.29	18.33
MAX197BEWI+-ND	8-Ch. Multi-Range 12-Bit DAS Parallel Interface*	28-SOIC	29.32	23.29	18.33
MAX500ACPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	14.29	11.35	8.93
MAX500BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	11.12	8.83	6.95
MAX500BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	11.12	8.83	6.95
MAX501BCNG+-ND	Voltage Output, 12-Bit Multiplying DAC*	24-Dip	11.64	9.24	7.28
MAX502AEWG+-ND	Voltage Output, 12-Bit Multiplying DAC*	24-SOIC	20.36	16.18	12.73
MAX502BCNG+-ND	Voltage Output, 12-Bit Multiplying DAC*	24-Dip	11.64	9.24	7.28
MAX503CNG+-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC*	24-Dip	6.83	5.43	4.28
MAX503CWG+-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC*	24-SOIC	6.83	5.43	4.28
MAX504CPD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-Dip	6.49	5.16	4.07
MAX504CSD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-SOIC	6.49	5.16	4.07
MAX504ESD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-SOIC	8.44	6.69	5.28
MAX505ACWG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs*	24-SOIC	19.08	15.15	11.93
MAX505BCAG+-ND	Quad 8-Bit DAC with Rail-to-Rail Voltage Outputs*	24-SSOP	11.53	9.15	7.22
MAX505BCNG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs*	24-Dip	14.67	11.65	9.19
MAX505BCWG+-ND	Quad 8-Bit DAC with Rail-to-Rail Voltage Outputs*	24-SOIC	9.19	11.65	9.19
MAX506ACPP+-ND	Quad 8-Bit DAC with Rail-to-Rail Voltage Outputs*	20-Dip	10.47	13.30	10.47
MAX506ACWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	16.75	13.30	10.47
MAX506AEWP+-ND	Quad 8-Bit DAC with Rail-to-Rail Voltage Outputs*	20-SOIC	21.78	17.29	13.63
MAX506BCPP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-Dip	12.88	10.22	8.05
MAX506BCWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	12.88	10.22	8.05
MAX506BEWP+-ND	Quad 8-Bit DAC with Rail-to-Rail Voltage Outputs*	20-SOIC	16.75	13.30	10.47
MAX507BCNG+-ND	Parallel Voltage Output, 12-Bit DAC with Internal Ref.*	24-Dip	15.07	11.97	9.42
MAX507BCWG+-ND	Parallel Voltage Output, 12-Bit DAC with Internal Ref.*	24-SOIC	16.43	13.05	9.67
MAX508BCPP+-ND	12-Bit DAC with Internal Ref., (8+4) Voltage Output*	20-Dip	15.07	11.97	9.42
MAX508BCWP+-ND	12-Bit DAC with Internal Ref., (8+4) Voltage Output*	20-SOIC	16.43	13.05	10.27
MAX509BCPP+-ND	Quad Serial Input 8-Bit D/A Converter*	20-Dip	10.34	8.21	6.47
MAX509BCWP+-ND	Quad Serial Input 8-Bit D/A Converter*	20-SOIC	11.27	8.95	7.05
MAX510AEWE+-ND	Quad Serial 8-Bit DAC with Rail-to-Rail Output*	16-SOIC	17.05	13.54	10.67
MAX510BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	10.93	8.69	6.83
MAX510BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	10.93	8.69	6.83
MAX512CPD+-ND	Triple 8-Bit Voltage Out D/A Converter*	14-Dip	6.21	4.93	3.88
MAX512CSD+-ND	Triple 8-Bit Voltage Out D/A Converter*	14-SOIC	6.21	4.93	3.88
MAX512ESD+-ND	Triple 8-Bit Voltage Out D/A Converter*	14-SOIC	8.08	6.42	5.05
MAX514BCNG+-ND	Quad CMOS 12-Bit Serial Input Multiplying D/A Conv.*	24-Dip	29.33	23.29	18.34
MAX515CPA+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	8-Dip	5.79	4.60	3.63
MAX515CSA+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	8-SOIC	5.79	4.60	3.41
MAX515ESA+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	8-SOIC	7.53	5.97	4.43
MAX517ACPA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	6.03	4.79	3.78
MAX517ACSA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.03	4.79	3.78
MAX517AESA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	7.83	6.21	4.90
MAX517BCPA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	4.63	3.68	2.90
MAX517BCSA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	4.63	3.68	2.90
MAX518ACSA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.45	5.12	4.04
MAX518AESA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	8.39	6.66	5.25
MAX518BCPA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	4.55	3.62	2.85
MAX518BCSA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	4.96	3.95	3.12
MAX518BESA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.45	5.12	4.04
MAX519ACSE+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	16-SOIC	6.74	5.35	4.23
MAX520ACPE+-ND	Quad 8-Bit DAC with Rail-to-Rail Output*	16-Dip	7.90	6.27	4.94
MAX520ACWE+-ND	Quad 8-Bit DAC with Rail-to-Rail Output*	16-SOIC	8.61	6.83	5.39
MAX520BCPE+-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output*	16-Dip	7.00	5.56	4.38
MAX520BCWE+-ND	Quad 8-Bit DAC with Rail-to-Rail Output*	16-SOIC	7.63	6.06	4.78
MAX521ACAG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SSOP	14.58	11.59	9.12
MAX521ACPP+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	20-Dip	14.03	11.14	8.78
MAX521ACWG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SOIC	14.03	11.14	8.78
MAX521BCAG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SSOP	11.23	8.92	7.00
MAX521BCPP-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	20-Dip	10.79	8.57	6.75
MAX521BCPP+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	20-Dip	10.79	8.57	6.75
MAX521BCWG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SOIC	10.79	8.57	6.75
MAX522CPA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-Dip	4.55	3.62	2.85
MAX522CSA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-SOIC	4.96	3.95	3.12
MAX522ESA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-SOIC	6.45	5.12	4.04
MAX525ACAP+-ND	5V, Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	35.98	28.58	22.50
MAX525AEAP+-ND	5V, Quad 12-Bit Voltage Out Serial D/A Conv.*	20-SSOP	46.78	37.15	29.24
MAX525BCAP+-ND	5V, Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	27.68	21.99	17.30
MAX525BCPP-ND	5V, Quad 12-Bit Voltage Out Serial D/A Converter	20-Dip	33.66	25.40	16.29
MAX525BCPP+-ND	5V, Quad 12-Bit Voltage Out Serial D/A Converter*	20-Dip	27.68	21.99	17.30
MAX525BEAP+-ND	5V, Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	35.98	28.58	22.50
MAX526CCNG+-ND	Calibrated Quad 12-Bit Volt. Output D/A Converter*	24-Dip	48.03	38.14	30.03
MAX526CCWG+-ND	Calibrated Quad 12-Bit Volt. Output D/A Converter*	24-SOIC	48.03	38.14	30.03
MAX526DCNG+-ND	Quad 12-Bit Voltage Output D/A Converter*	24-Dip	40.02	31.78	25.03

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(Continued)

MAXIM INNOVATION DELIVERED Digi-Reel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX526DCWG+-ND	Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	40.02	31.78	25.03
MAX527DCNG+-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter*	24-Dip	34.10	27.08	21.32
MAX527DCWG+-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	34.10	27.08	21.32
MAX528CPP+-ND	Octal 8-Bit Serial D/A Converter with Output Buffer*	20-Dip	13.90	11.04	8.69
MAX528CWG+-ND	Octal 8-Bit Serial D/A Conv. with Output Buffer*	24-SOIC	13.90	11.04	8.69
MAX528EWG+-ND	Octal 8-Bit Serial D/A Conv. with Output Buffer*	24-SOIC	18.07	14.34	11.30
MAX529CPP-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer	20-Dip	15.42	11.64	7.76
MAX529CPP+-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer*	20-Dip	10.68	8.48	6.68
MAX529CWG+-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer*	24-SOIC	11.64	9.24	7.28
MAX530BCAG+-ND	5V, Low Power Voltage Output 12-Bit DAC*	24-SSOP	12.33	9.79	7.72
MAX530BCNG+-ND	5V, Low Power Voltage Output 12-Bit DAC*	24-Dip	11.75	9.33	7.33
MAX530BCWG+-ND	5V, Low Power Voltage Output 12-Bit DAC*	24-SOIC	11.75	9.33	7.33
MAX531ACPD+-ND	5V, Low Power Volt. Output 12-Bit Serial DAC*	14-Dip	17.63	14.00	11.02
MAX531ACSD+-ND	5V, Low Pwr Voltage Output 12-Bit Serial DAC*	14-SOIC	17.63	14.00	11.02
MAX531AESD+-ND	5V, Low Pwr Voltage Output 12-Bit Serial DAC*	14-SOIC	22.90	18.19	14.33
MAX531BCPD+-ND	5V, Voltage Output 12-Bit Serial DAC*	14-Dip	11.75	9.33	7.33
MAX531BCSD+-ND	5V, Voltage Output 12-Bit Serial DAC*	14-SOIC	11.75	9.33	7.33
MAX531BESD+-ND	5V, Voltage Output 12-Bit Serial DAC*	14-SOIC	15.27	12.12	9.55
MAX532AEWE+-ND	Dual, Serial In, Volt. Out, 12-Bit Multiplying DAC*	16-SOIC	31.95	25.38	19.98
MAX532BCPE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-Dip	18.20	14.45	11.38
MAX532BCWE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-SOIC	18.20	14.45	11.38
MAX533ACEE+-ND	2.7V, Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.44	6.69	5.28
MAX533AEEE+-ND	2.7V, LP Quad Serial Volt. Out 8-Bit DAC*	16-QSOP	10.97	8.71	6.84
MAX533BCEE-ND	2.7V, Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX533BCEE+-ND	2.7V, Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	6.49	5.16	4.07
MAX533BEEE+-ND	2.7V, LP Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.44	6.69	5.28
MAX534ACEE+-ND	5V, LP Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.44	6.69	5.28
MAX534AEEE+-ND	5V, LP Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	10.97	8.71	6.84
MAX534BCEE+-ND	5V, Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	6.49	5.16	4.07
MAX534BCPE+-ND	5V, Low Power Quad Serial Voltage Out 8-Bit DAC*	16-Dip	6.49	5.16	4.07
MAX534BEEE+-ND	5V, LP Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.44	6.69	5.28
MAX535BCUA+-ND	5V, 13-Bit Voltage Out Serial D/A Converter*	8-µMAX	11.47	9.10	7.17
MAX536ACPE+-ND	Calibrated, Quad, 12-Bit Voltage Out Serial DAC*	16-Dip	51.72	41.07	32.34
MAX536ACWE+-ND	Calibrated, Quad, 12-Bit Voltage Out Serial DAC*	16-SOIC	51.72	41.07	32.34
MAX536BCPE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-Dip	36.94	29.34	23.10
MAX536BCPE+-ND	Quad 12-Bit Voltage Out Serial D/A Converter*	16-Dip	36.94	29.34	23.10
MAX536BCWE+-ND	Quad 12-Bit Voltage Out Serial D/A Converter*	16-SOIC	36.94	29.34	23.10
MAX538BCPA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-Dip	10.45	8.29	6.54
MAX538BCSA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-SOIC	10.45	8.29	6.54
MAX538BESA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-SOIC	13.58	10.79	8.49
MAX539BCPA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-Dip	10.45	8.29	6.54
MAX539BCSA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-SOIC	10.45	8.29	6.54
MAX539BESA+-ND	5V, Low Power 12-Bit Serial D/A Converter*	8-SOIC	13.58	10.79	8.49
MAX541ACSA+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	8-SOIC	41.44	32.91	24.38
MAX541AESA+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	8-SOIC	53.87	42.78	31.70
MAX541BCPA+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	8-Dip	29.43	23.37	18.40
MAX541CCPA+-ND	5V, 16-Bit Serial Voltage Out D/A Converter*	8-Dip	21.14	16.79	13.22
MAX541CCSA+-ND	5V, 16-Bit Serial Voltage Out D/A Converter*	8-SOIC	21.14	16.79	12.44
MAX542ACSD+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	14-SOIC	41.44	32.91	24.38
MAX542BCPD+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	14-Dip	29.43	23.37	18.40
MAX542BCSD+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	14-SOIC	29.43	23.37	17.31
MAX542CCSD+-ND	5V, 16-Bit Serial In Voltage Out D/A Converter*	14-SOIC	21.14	16.79	12.44
MAX543ACPA+-ND	12-Bit Serial-Input CMOS MDAC*	8-Dip	18.90	15.01	11.83
MAX543ACSA+-ND	CMOS 12-Bit Serial Input Multiplying D/A Conv.*	8-SOIC	16.42	13.04	10.27
MAX543ACWE+-ND	CMOS 12-Bit Serial Input Multiplying D/A Conv.*	16-SOIC	18.90	15.01	11.83
MAX543BCPA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-Dip	15.75	12.51	9.85
MAX543BCSA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-SOIC	12.62	10.03	7.89
MAX544BCPA+-ND	5V, 14-Bit Serial Voltage Out D/A Converter*	8-Dip	16.79	13.33	10.49
MAX544BCSA+-ND	5V, 14-Bit Serial Voltage Out D/A Converter*	8-SOIC	16.79	13.33	10.49
MAX547BCQH+D-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface*	44-PLCC	39.88	—	—
MAX548ACPA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-Dip	4.01	3.18	2.52
MAX548ACUA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	4.01	3.18	2.52
MAX548AEUA+-ND	2.5V~5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	5.21	4.14	3.27
MAX549ACPA+-ND	2.5V~5.5V Dual 8-Bit Voltage Out D/A Converter*	8-Dip	4.01	3.18	2.52
MAX549ACUA+-ND	2.5V~5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	4.01	3.18	2.52
MAX549AEUA+-ND	2.5V~5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	5.21	4.14	3.27
MAX550ACPA+-ND	2.5V~5.5V Single 8-Bit Voltage Out D/A Conv.*	8-Dip	3.36	2.66	2.10
MAX550AEUA+-ND	2.5V~5.5V Single 8-Bit Voltage-Output D/A Conv.* ***NEW!***	8-µMAX	4.36	3.47	2.74
MAX550ACUA+-ND	2.5V~5.5V Dual 8-Bit Voltage-Output D/A Converter*	8-µMAX	3.36	2.66	2.10
MAX552AEUB+-ND	2.7V~3.6V Serial 12-Bit Multiplying D/A Converter*	10-µMAX	11.79	9.36	7.38
MAX1026BCEE+-ND	10-Bit 300kSPS ADC with FIFO*	16-QSOP	7.74	6.14	4.97
MAX1026BEEE+-ND	10-Bit 300kSPS ADC with FIFO*	16-QSOP	9.07	7.20	5.82
MAX1027BCEE+-ND	10-Bit 300kSPS ADC with FIFO*	16-QSOP	7.74	6.14	4.97
MAX1027BEEE+-ND	10-Bit 300kSPS ADC with FIFO*	16-QSOP	9.07	7.20	5.82
MAX1028BCEP+-ND	10-Bit 300kSPS ADC with FIFO*	20-QSOP	8.76	6.96	5.62
MAX1028BEEP+-ND	10-Bit 300kSPS ADC with FIFO*	20-QSOP	10.26	8.15	6.58
MAX1029BCEP+-ND	10-Bit 300kSPS ADC with FIFO*	20-QSOP	8.76	6.96	5.62
MAX1029BEEP+-ND	10-Bit 300kSPS ADC with FIFO*	20-QSOP	10.26	8.15	6.58
MAX1030BEEG+-ND	10-Bit 300kSPS ADC with FIFO*	24-QSOP	10.74	8.53	6.90
MAX1031BEEG+-ND	10-Bit 300kSPS ADC with FIFO*	24-QSOP	10.74	8.53	6.90
MAX1031BETI+-ND	10-Bit 300kSPS ADC with FIFO*	28-TQFN	11.43	9.08	7.34
MAX1036EKA+TCT-ND	4.5V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	3.95	2.98	2.61
MAX1036EKA+TTR-ND	4.5V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	4656.25/2,500		
MAX1037EKA+TCT-ND	2.7V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	3.95	2.98	2.61
MAX1037EKA+TTR-ND	2.7V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	4656.25/2,500		
MAX1038AEEE+-ND	2.7V Low Power 8-Bit, 12-Channel Serial ADC*	16-QSOP	4.25	3.37	2.73
MAX1039AEEE+-ND	2.7V Low Power 8-Bit, 12-Channel Serial ADC*	16-QSOP	4.25	3.37	2.73
MAX1044CPA+-ND	CMOS Switchcap Voltage Converter*	8-Dip	3.03	2.02	1.46
MAX1044CSA+-ND	CMOS Switchcap Voltage Converter*	8-SOIC	3.69	2.46	1.78
MAX1044ESA+-ND	CMOS Switchcap Voltage Converter*	8-SOIC	4.59	3.06	2.21
MAX1060BCEI+-ND	5V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	10.52	8.35	6.58
MAX1060BEEI+-ND	5V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	12.67	10.05	7.93
MAX1061BCEI+-ND	3V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	9.57	7.60	5.99
MAX1061BEEI+-ND	3V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	11.53	9.15	7.22
MAX1063BCEG+-ND	3V, 10-Bit, 2-Channel Serial ADC with Reference*	24-QSOP	9.13	7.25	5.72
MAX1065BEUI+-ND	Low Power 14-Bit ADC with Parallel Interface*	28-TSSOP	20.07	15.92	12.87
MAX1066BCUP+-ND	Low Power 14-Bit ADC with Parallel Interface*	20-TSSOP	17.12	13.59	10.98
MAX1067BCEE+-ND	Multichannel 14-Bit 200kSPS ADC*	16-QSOP	21.31	16.08	10.73
MAX1076ETC+-ND	1.8MSPS 10-Bit ADC with Reference*	12-TQFN	6.41	5.08	4.12
MAX1077ETC+-ND	1.5MSPS 10-Bit ADC with Reference*	12-TQFN	6.41	5.08	4.12
MAX1080BEUP+-ND	400kSPS 10-Bit Serial ADC with Reference*	20-TSSOP	12.89	10.23	8.05
MAX1081BEUP+-ND	300kSPS 10-Bit Serial ADC with Reference*	20-TSSOP	12.89	10.23	7.58
MAX1082BEUE+-ND	400kSPS 10-Bit Serial ADC with Reference*	16-TSSOP	12.38	9.84	7.75
MAX1083BEUE+-ND	300kSPS 10-Bit Serial ADC with Reference*	16-TSSOP	12.38	9.84	7.75
MAX1084BESA+-ND	400kSPS 10-Bit Serial ADC with Reference*	8-SOIC	11.93	9.48	7.47
MAX1085BESA+-ND	300kSPS 10-Bit Serial ADC with Reference*	8-SOIC	11.93	9.48	7.47
MAX1086ETA+TCT-ND	5V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	5.72	4.32	3.78
MAX1086ETA+TTR-ND	5V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	6750.00/2,500		
MAX1087ETA+TCT-ND	3V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	5.72	4.32	3.78
MAX1087ETA+TTR-ND	3V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	6750.00/2,500		
MAX1089ETA+TCT-ND	3V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	5.72	4.32	3.78
MAX1089ETA+TTR-ND	3V, 150kSPS 10-Bit Serial Output ADC*	8-TDFN	6750.00/2,500		
MAX1090BEEI+-ND	400kSPS 10-Bit ADC with Reference*	28-QSOP	12.67	10.05	7.93
MAX1091BEEI+-ND	250kSPS 10-Bit ADC with Reference*	28-QSOP	12.67	10.05	7.93
MAX1092BEEG+-ND	400kSPS 10-Bit ADC with Reference*	24-QSOP	12.09	9.59	7.55
MAX1093BEEG+-ND	250kSPS 10-Bit ADC with Reference*	24-QSOP	12.09	9.59	7.55
MAX1099CEAE+-ND	5-Channel, 10-Bit Serial Output ADC*	16-SSOP	6.01	4.77	3.87
MAX1106EUB+-ND	8-Bit, Low Power Serial ADC*	10-µMAX	4.45	3.53	2.79
MAX1107EUB+-ND	8-Bit, Low Power Serial ADC*	10-µMAX	4.45	3.53	2.79
MAX1108EUB+-ND	8-Bit, Low Power Serial ADC*	10-µMAX	4.45	3.53	2.79
MAX1109EUB+-ND	8-Bit, Low Power Serial ADC*	10-µMAX	4.45	3.53	2.79
MAX1110CAP+-ND	2.7V, 8-Bit, 8-Channel Serial ADC with Reference*	20-SSOP	4.46	3.55	2.79
MAX1110EAP+-ND	2.7V, 8-Bit, 8-Channel Serial ADC with Reference*	20-SSOP	5.13	4.08	3.20
MAX1111CEE+-ND	2.7V, 8-Bit, 8-Channel Serial ADC*	16-QSOP	4.05	3.22	2.53
MAX1111EEE+-ND	2.7V, 8-Bit, 8-Channel Serial ADC*	16-QSOP	4.66	3.70	2.93
MAX1112CAP+-ND	5V, 8-Bit, Low Power Serial ADC*	20-SSOP	4.46	3.55	2.79
MAX1112EAP+-ND	5V, 8-Bit, Low Power Serial ADC*	20-SSOP	5.13	4.08	3.20
MAX1113CEE+-ND	5V, Low Power 8-Bit Serial ADC*	16-QSOP	4.05	3.22	2.53
MAX1113EEE+-ND	5V, 8-Bit, Low Power Serial ADC*	16-QSOP	4.66	3.70	2.93
MAX1115EKA+TCT-ND	2.7V Low Power 8-Bit Serial ADC*	SOT-23-8	2.97	2.24	1.96
MAX1115EKA+TTR-ND	2.7V Low Power 8-Bit Serial ADC*	SOT-23-8	2906.25/2,500		
MAX1116EKA+TCT-ND	4.5V Low Power 8-Bit Serial ADC*	SOT23-8	2.97	2.24	1.96
MAX1116EKA+TTR-ND	4.5V Low Power 8-Bit Serial ADC*	SOT23-8	3500.00/2,500		
MAX1117EKA+TCT-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT23-8	2.46	1.86	1.63
MAX1117EKA+TTR-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT23-8	2906.25/2,500		
MAX1118EKA+TCT-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	2.36	1.78	1.56
MAX1118EKA+TTR-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	2750.00/2,500		
MAX1119EKA+TCT-ND	4.5V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	2.97	2.24	1.96
MAX1119EKA+TTR-ND	4.5V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	2906.25/2,500		
MAX1132BEAP+-ND	5V, 16-Bit Serial ADC with Reference*	20-SSOP	54.97	43.63	35.23
MAX1133BEAP+-ND	5V, 16-Bit Serial ADC with Reference*	20-SSOP	54.97	43.63	35.23
MAX1134BEAP+-ND	3.3V, 16-Bit Serial ADC*	20-SSOP	56.14	44.56	33.87
MAX1135BEAP+-ND	3.3V, 16-Bit Serial ADC*	20-SSOP	56.14	44.56	33.87
MAX1136EUA+-ND	4.5V Low Power 10-Bit, 4-Channel Serial ADC*	8-µMAX	6.18	4.90	3.95
MAX1137EUA+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	8-µMAX	6.18	4.90	3.95
MAX1138EEE+-ND	4.5V Low Power 10-Bit, 12-Channel Serial ADC*	16-QSOP	6.69	5.31	4.29
MAX1139EEE+-ND	2.7V Low Power 10-Bit, 12-Channel Serial ADC*	16-QSOP	6.69	5.31	4.29
MAX1142BEAP+-ND	5V Low Power 14-Bit Serial ADC with Reference*	20-SSOP	41.19	32.69	26.40
MAX1144BEAP+-ND	3.3V Low Power 14-Bit Serial ADC*	20-SSOP	42.08	33.40	25.39
MAX1145BEAP+-ND	3.3V Low Power 14-Bit Serial ADC*	20-SSOP	42.08	33.40	25.39
MAX1147BEUP+-ND	2.5V, 14-Bit 4-Channel Serial ADC*	20-TSSOP	18.57	14.74	11.90
MAX1148BEUP+-ND	4.1V, 14-Bit 4-Channel Serial ADC* ***NEW!***	20-TSSOP	20.42	16.21	13.09
MAX1149BEUP+-ND	2.5V, 14-Bit 8-Channel Serial ADC*	20-TSSOP	20.42	16.21	13.09
MAX1153BEUE+-ND	10-Bit, 10-Ch. Serial ADC with System Monitors*	16-TSSOP	7.85	6.23	5.03
MAX1154BEUE+-ND	10-Bit, 10-Ch. Serial ADC with System Monitors*	16-TSSOP	7.85	6.23	5.03
MAX1181ECM+D-ND	3V, Dual 10-Bit 80MSPS Low Power ADC* ***NEW!***	48-TQFP	27.03	21.47	17.89
MAX1182ECM+D-ND	3V, Dual 10-Bit 65MSPS Low Power ADC* ***NEW!***	48-TQFP	23.80	18.90	15.75
MAX1183ECM+D-ND	3V, Dual 10-Bit 40MSPS Low Power ADC* ***NEW!***	48-TQFP	28.83	19.22	13.93
MAX1184ECM+D-ND	3V, Dual 10-Bit 20MSPS Low Power ADC* ***NEW!***	48-TQFP	15.90	10.60	7.68
MAX1185ECM+D-ND	3V, Dual 10-Bit 20MSPS Low Power ADC* ***NEW!***	48-TQFP	15.90	10.60	7.68
MAX1191ETI+-ND	Dual 8-Bit 7.5MSPS Ultra-Low Power ADC* ***NEW!***	28-TQFN	11.22	7.48	5.42
MAX1192ETI+-ND	Dual 8-Bit 22MSPS Ultra-Low Power ADC* ***NEW!***	28-TQFN	12.75	8.50	6.16
MAX1193ETI+-ND	Dual 8-Bit 45MSPS Ultra-Low Power ADC* ***NEW!***	28-TQFN	13.86	9.24	6.69
MAX1197ECM+D-ND	Dual 8-Bit 60MSPS Low Power ADC* ***NEW!***	48-TQFP	26.61	17.74	12.86
MAX1198ECM+D-ND	Dual 8-Bit 100MSPS Low Power ADC* ***NEW!***	48-TQFP	24.34	22.82	17.12
MAX1202BCAP+-ND	5V, 12-Bit 8-Ch. Serial ADC with 3V Digital Interface*	20-SSOP	15.18	12.05	9.49
MAX1202BCPP+-ND	5V, 12-Bit 8-Ch. Serial ADC with 3V Digital Interface*	20-Dip	15.18	12.05	9.49
MAX1202BEAP+-ND	5V, 12-Bit 8-Ch. Serial ADC with 3V Digital Interface*	20-SSOP	19.74	15.67	12.34
MAX1203BEAP+-ND	5V, 12-Bit 8-Ch. Serial ADC with 3V Digital Interface*	20-SSOP	16.55	13.14	10.34
MAX1204BEAP+-ND	5V, 10-Bit 8-Ch. Serial ADC with 3V Digital Interface*	20-SSOP	12.90	10.24	8.08
MAX1226BCEE+-ND	12-Bit, 300kSPS ADC with FIFO*	16-QSOP	10.13	8.04	6.50
MAX1227BCEE+-ND	12-Bit, 300kSPS ADC with FIFO*	16-QSOP	10.13	8.04	6.50
MAX1228BCEP+-ND	12-Bit, 300kSPS ADC with FIFO*	20-QSOP	11.18	8.87	7.17
MAX1228BEEP+-ND	12-Bit, 300kSPS ADC with FIFO*	20-QSOP	13.09	10.38	8.38
MAX1229BEEP+-ND	12-Bit, 300kSPS ADC with FIFO*	20-QSOP	13.09	10.38	8.38
MAX1230BCTI+-ND	12-Bit, 300kSPS ADC with FIFO*	28-TQFN	12.15	9.65	7.79
MAX1230BEEG+-ND	12-Bit, 300kSPS ADC with FIFO*	24-QSOP	13.37	10.62	8.58
MAX1230BETI+-ND	12-Bit, 300kSPS ADC with FIFO *	28-TQFN	14.24	11.31	9.13
MAX1231BEEG+-ND	12-Bit, 300kSPS ADC with FIFO*	24-QSOP	13.37	10.62	8.58
MAX1231BETI+-ND	12-Bit, 300kSPS ADC, Exposed Paddle, with FIFO*	28-TQFN-EP	14.24	11.31	9.13
MAX1236EUA+-ND	4.5V, 12-Bit, 4-Channel Serial ADC*	8-µMAX	8.62	6.84	5.53
MAX1237EUA+-ND	2.7V, 12-Bit, 4-Channel Serial ADC*	8-µMAX	8.62	6.84	5.53
MAX1238EEE+-ND	4.5V, 12-Bit, 12-Channel Serial ADC*	16-QSOP	9.38	7.45	6.02
MAX1238LEEE+-ND	12-Channel, 12-Bit Low Power Serial ADC*	16-QSOP	5.68	—	—
MAX1239EEE+-ND	2.7V, 12-Bit, 12-Channel Serial ADC*	16-QSOP	9.38	7.45	6.02
MAX1240BESA+-ND	2.7V Low Power 12-Bit Serial ADC*	8-SOIC	12.82	10.19	8.02
MAX1241AESA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-SOIC	13.99	11.11	8.75
MAX1241BCPA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-Dip	9.71	7.71	6.09
MAX1241BCSA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-SOIC	9.71	7.71	6.09
MAX1241BESA+-ND	2.7V Low Power 12-Bit Serial ADC*	8-SOIC	11.66	9.25	7.30
MAX1242BESA+-ND	2.7V Low Power 10-Bit Serial ADC*	8-SOIC	6.92	5.49	4.33
MAX1243BCSA+-ND	2.7V Low Power 10-Bit Single Channel Serial ADC*	8-SOIC	5.87	4.66	3.67
MAX1243BESA+-ND	2.7V Low Power 10-Bit Serial ADC*	8-SOIC	5.98	4.75	3.75
MAX1246BEEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	18.67	14.84	11.68
MAX1247ACEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	17.26	13.70	10.79
MAX1247BEEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	19.48	14.70	9.43
MAX1247BEEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	16.02	12.72	9.43
MAX1247BCEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	12.33	9.79	7.25
MAX1247BCPE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-Dip	12.33	9.79	7.25
MAX1248BEEE+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	16-QSOP	10.32	8.20	6.45
MAX1249BCEE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-QSOP	11.21	8.46	5.43
MAX1249BCPE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-Dip	12.24	9.24	5.93
MAX1249BCPE+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	16-Dip	9.22	7.33	5.78
MAX1249BEEE+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	16-QSOP	11.99	9.53	7.05
MAX1253BEUE+-ND	Standalone 12-Bit 10-Channel ADC with Reference*	16-TSSOP	11.08	8.79	7.10
MAX1254BEUE+-ND	Standalone 12-Bit 10-Channel ADC with Reference*	16-TSSOP	11.08	8.79	7.10
MAX1261BCEI+-ND	3V, 250kSPS 12-Bit ADC with Reference*	28-QSOP	15.34	12.18	9.59
MAX1261BEEI+-ND	3V, 250kSPS 12-Bit ADC with Reference*	28-QSOP	18.48	14.67	11.55
MAX1262BEEI+-ND	5V, 400kSPS 12-Bit ADC with Reference*	28-QSOP	18.48	14.67	11.55
MAX1263BCEG+-ND	3V, 250kSPS 12-Bit ADC with Reference*	24-QSOP	13.36	10.61	8.35
MAX1263BEEG+-ND	3V, 250kSPS 12-Bit ADC with Reference*	24-QSOP	16.10	12.78	10.08
MAX1264BCEG+-ND	5V, 400kSPS 12-Bit ADC with Reference*	24-QSOP	14.68	11.66	9.18
MAX1264BEEG+-ND	5V, 400kSPS 12-Bit ADC with Reference*	24-QSOP	17.69	14.04	11.08

* ***RoHS Compliant***

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX1265BEEI+-ND	3V, 265kSPS 12-Bit ADC with Reference*	28-QSOP	18.10	14.37	11.32
MAX1266BEEI+-ND	5V, 420kSPS 12-Bit ADC with Reference*	28-QSOP	18.10	14.37	11.32
MAX1267BCEG+-ND	3V, 265kSPS 12-Bit ADC with Reference*	24-QSOP	14.33	11.37	8.95
MAX1267BEEG+-ND	3V, 265kSPS 12-Bit ADC with Reference*	24-QSOP	17.26	13.71	10.80
MAX1268BCEG+-ND	5V, 420kSPS 12-Bit ADC with Reference*	24-QSOP	14.33	11.37	8.95
MAX1268BEEG+-ND	5V, 420kSPS 12-Bit ADC with Reference*	24-QSOP	17.26	13.71	10.80
MAX1270ACNG+-ND	Multirange, 5V, 8-Channel Serial 12-Bit ADC*	24-Dip	25.51	20.25	15.95
MAX1270BCAI+-ND	Multirange, 5V, 8-Channel Serial 12-Bit ADC*	28-SSOP	20.40	16.20	12.77
MAX1270BEAI+-ND	Multirange, 5V, 8-Channel Serial 12-Bit ADC*	28-SSOP	23.46	18.63	14.68
MAX1271BEAI+-ND	Multirange, 5V, 8-Channel Serial 12-Bit ADC*	28-SSOP	23.46	18.63	14.68
MAX1280BEUP+-ND	400kSPS, Single Supply, Serial 12-Bit ADC w/ Reference*	20-TSSOP	16.11	12.79	10.09
MAX1281BEUP+-ND	300kSPS, Single Supply, Serial 12-Bit ADC w/ Reference*	20-TSSOP	16.11	12.79	10.13
MAX1282BEUE+-ND	400kSPS Single Supply, 4-Channel 12-Bit ADC w/ Ref.*	16-TSSOP	15.48	12.30	9.68
MAX1283BEUE+-ND	300kSPS Single Supply, 4-Channel 12-Bit ADC w/ Ref.*	16-TSSOP	15.48	12.30	9.68
MAX1284BESA+-ND	400kSPS, Single Supply, Serial 12-Bit ADC w/ Reference*	8-SOIC	14.92	11.85	9.33
MAX1285BCSA+-ND	300kSPS, Single Supply, Serial 12-Bit ADC*	8-SOIC	12.43	9.87	7.78
MAX1285BESA+-ND	300kSPS, Single Supply, Serial 12-Bit ADC w/ Reference*	8-SOIC	14.92	11.85	9.33
MAX1286ETA+TCT-ND	150kSPS, 5V, 2-Channel 12-Bit ADC*	8-TDFN	8.24	6.22	5.45
MAX1286ETA+TTR-ND	150kSPS, 5V, 2-Channel 12-Bit ADC*	8-TDFN	9718.75/2,500		
MAX1287ETA+TCT-ND	150kSPS, 3V, 2-Channel 12-Bit ADC*	8-TDFN	8.24	6.22	5.45
MAX1287ETA+TTR-ND	150kSPS, 3V, 2-Channel 12-Bit ADC*	8-TDFN	9718.75/2,500		
MAX1288ETA+TCT-ND	150kSPS, 5V, 2-Channel 12-Bit ADC*	8-TDFN	8.24	6.22	5.45
MAX1288ETA+TTR-ND	150kSPS, 5V, 2-Channel 12-Bit ADC*	8-TDFN	9718.75/2,500		
MAX1289ETA+TCT-ND	150kSPS, 3V, 2-Channel 12-Bit ADC*	8-TDFN	8.24	6.22	5.45
MAX1289ETA+TTR-ND	150kSPS, 3V, 2-Channel 12-Bit ADC*	8-TDFN	9718.75/2,500		
MAX1290BCEI+-ND	400kSPS, Low Power 12-Bit ADC*	28-QSOP	15.34	12.18	9.59
MAX1290BEEI+-ND	400kSPS, 5V, 8-Ch. 12-Bit ADC with Reference*	28-QSOP	18.48	14.67	11.55
MAX1291BEEI+-ND	250kSPS, 3V, 8-Ch. 12-Bit ADC with Reference*	28-QSOP	18.48	14.67	11.55
MAX1292BEEG+-ND	400kSPS, 5V, 4-Ch. 12-Bit ADC with Reference*	24-QSOP	17.69	14.04	11.08
MAX1293BEEG+-ND	250kSPS, 3V, 4-Ch. 12-Bit ADC with Reference*	24-QSOP	17.69	14.04	11.08
MAX1294BEEI+-ND	420kSPS, 5V, 6-Ch. 12-Bit ADC with Reference*	28-QSOP	18.10	14.37	11.32
MAX1295BEEI+-ND	265kSPS, 3V, 6-Ch. 12-Bit ADC with Reference*	28-QSOP	18.10	14.37	11.32
MAX1296BEEG+-ND	420kSPS, 5V, 2-Ch. 12-Bit ADC with Reference*	24-QSOP	17.26	13.71	10.80
MAX1297BEEG+-ND	265kSPS, 3V, 2-Ch. 12-Bit ADC with Reference*	24-QSOP	17.26	13.71	10.80
MAX1361EUB+-ND	4-Channel, 10-Bit ADC with System Monitor*	10-µMAX	5.67	4.50	3.64
MAX1377ATP+-ND	2.7V, 1.25MSPS Dual 12-Bit Serial ADC*	20-TQFN-EP	7.62	6.05	4.89
MAX1379ATP+-ND	4.75V, 1.25MSPS Dual 12-Bit Serial ADC*	20-TQFN	7.62	6.05	4.89
MAX1393ETB+TCT-ND	1.5V, 312.5kSPS 1-Channel 12-Bit ADC*	10-TDFN	5.91	4.46	3.91
MAX1393ETB+TTR-ND	1.5V, 312.5kSPS 1-Channel 12-Bit ADC*	10-TDFN	6968.75/2,500		
MAX1394ETB+TCT-ND	1.5V, 416kSPS 2-Channel 8-Bit ADC*	10-TDFN	2.76	2.08	1.82
MAX1394ETB+TTR-ND	1.5V, 416kSPS 2-Channel 8-Bit ADC*	10-TDFN	3250.00/2,500		
MAX1395ETB+TCT-ND	1.5V, 357kSPS 2-Channel 10-Bit ADC*	10-TDFN	4.61	3.48	3.05
MAX1395ETB+TTR-ND	1.5V, 357kSPS 2-Channel 10-Bit ADC*	10-TDFN	5437.50/2,500		
MAX1396ETB+TCT-ND	1.5V, 312.5kSPS 2-Channel 12-Bit ADC*	10-TDFN	5.91	4.46	3.91
MAX1396ETB+TTR-ND	1.5V, 312.5kSPS 2-Channel 12-Bit ADC*	10-TDFN	6968.75/2,500		
MAX1400EAI+-ND	5V, 18-Bit, Low Power ADC*	28-SSOP	27.48	21.82	17.63
MAX1401EAI+-ND	3V, 18-Bit, Low Power ADC*	28-SSOP	27.48	21.82	17.63
MAX1402EAI+-ND	5V, 18-Bit, Low Power ADC*	28-SSOP	27.48	21.82	17.63
MAX1403EAI+-ND	3V, 18-Bit, Low Power ADC*	28-SSOP	27.48	21.82	17.63
MAX1444EHJ+-ND	3V, 10-Bit, 40MSPS Low Power ADC* ***NEW!***	32-TQFP	17.82	11.88	8.61
MAX1446EHJ+-ND	3V, 10-Bit, 60MSPS Low Power ADC* ***NEW!***	32-TQFP	21.09	14.06	10.19
MAX1491CAI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-SSOP	8.88	7.04	5.69
MAX1491CNI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-Dip	8.88	7.04	5.69
MAX1492CAI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-SSOP	11.01	8.74	7.05
MAX1492CNI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-Dip	11.01	8.74	7.05
MAX1493CCJ+-ND	4.5-Digit, Single Chip ADC with LCD Driver*	32-TQFN	12.57	9.98	8.07
MAX1494CCJ+-ND	4.5-Digit Single Chip ADC with LCD Driver*	32-TQFN	14.71	11.68	9.44
MAX1495CCJ+-ND	4.5-Digit Single Chip ADC with LCD Driver*	32-TQFN	12.57	9.98	8.07
MAX1496EAI+-ND	3.5-Digit Single Chip ADC with LED Driver*	28-SSOP	8.88	7.04	5.69
MAX1496EPI+-ND	3.5-Digit Single Chip ADC with LED Driver*	28-Dip	8.88	7.04	5.69
MAX5100AEUP+-ND	2.7V~5.5V, LP Quad Parallel 8-Bit DAC w/ R/R Volt. Out*	20-TSSOP	7.00	5.55	4.52
MAX5100BEUP+-ND	2.7V~5.5V, LP Quad Parallel 8-Bit DAC w/ R/R Volt. Out*	20-TSSOP	5.83	4.63	3.75
MAX5101AEUE+-ND	2.7V~5.5V, LP Triple Parallel 8-Bit DAC w/ R/R Volt. Out*	16-TSSOP	5.93	4.70	3.82
MAX5102AEUE+-ND	2.7 ~ 5.5V, LP Dual Parallel 8-Bit DAC w/ R/R Volt. Out*	16-TSSOP	5.64	4.47	3.63
MAX5102BEUE+-ND	2.7~5.5V, LP Dual Parallel 8-Bit DAC w/ R/R Volt. Out*	16-TSSOP	4.70	3.73	3.03
MAX5104CEE+-ND	Low Power, Dual, 12-Bit Volt. Output Serial DAC*	16-QSOP	8.45	6.70	5.44
MAX5104EEE+-ND	Low Power, Dual, 12-Bit Volt. Output Serial DAC*	16-QSOP	9.09	7.22	5.85
MAX5105EEP+-ND	Non-Volatile, Quad 8-Bit DAC*	20-QSOP	8.34	6.41	5.32
MAX5106EEE+-ND	Non-Volatile, Quad 8-Bit DAC*	16-QSOP	8.34	6.41	5.32
MAX5123AEEE+-ND	3V, 12-Bit Serial Force/Sense DAC with Reference*	16-QSOP	11.12	8.82	7.15
MAX5134AGTG+-ND	Low Power, Quad 16-Bit Buffered Voltage Output DAC*	24-TQFN-EP	15.11	13.39	12.82
MAX5135GTG+-ND	2.7V~-5.25V, 12-Bit Quad Voltage-Output DAC* ***NEW!***	24-TQFN	7.21	6.39	6.12
MAX5136AGTG+-ND	2.7V~5.25V, 16-Bit Dual Voltage-Output DAC* ***NEW!***	24-TQFN	8.73	7.74	7.40
MAX5137GTG+-ND	2.7V~5.25V, 12-Bit Dual Voltage-Output DAC* ***NEW!***	24-TQFN	3.80	3.36	3.22
MAX5138BGTE+-ND	2.7V~5.25V, 16-Bit Single Voltage-Output DAC* ***NEW!***	16-TQFN	6.66	5.67	4.82
MAX5141EUA+-ND	5V, 14-Bit Serial Input/Voltage Output DAC*	8-µMAX	15.07	12.02	9.45
MAX5142EUB+-ND	5V, 14-Bit Serial Input/Voltage Output DAC*	10-µMAX	15.07	12.02	9.45
MAX5143EUA+-ND	3V, 14-Bit Serial Input/Voltage Output DAC*	8-µMAX	15.07	12.02	9.45
MAX5156BCEE+-ND	LP, Dual, 12-Bit Volt. Out DAC with Configurable Output*	16-QSOP	13.90	11.04	8.69
MAX5170AEEE+-ND	Low Power, 14-Bit Voltage Output Serial DAC*	16-QSOP	12.74	10.12	8.20
MAX5170BEEE+-ND	Low Power, 14-Bit Voltage Output Serial DAC*	16-QSOP	9.81	7.77	6.32
MAX5180BEEI+-ND	Dual 10-Bit Current/Volt. Simultaneous-Out DAC* ***NEW!***	28-QSOP	14.10	9.40	6.81
MAX5181BEEG+-ND	10-Bit Current/Voltage Output DAC* ***NEW!***	24-QSOP	10.17	6.78	4.91
MAX5183BEEI+-ND	Dual 10-Bit Current/Volt. Simultaneous-Out DAC* ***NEW!***	28-QSOP	14.10	9.40	6.81
MAX5184ETG+-ND	10-Bit Current/Voltage Output DAC* ***NEW!***	24-TQFN	10.17	6.78	4.91
MAX5190BEEG+-ND	8-Bit Current/Voltage Output DAC* ***NEW!***	24-QSOP	8.73	5.82	4.21
MAX5222EKA+TCT-ND	2.7V~5.5V, Dual Voltage Output Serial DAC*	SOT23-8	2.92	2.20	1.93
MAX5222EKA+TTR-ND	2.7V~5.5V, Dual Voltage Output Serial DAC*	SOT23-8	3437.50/2,500		
MAX5223EKA+TCT-ND	2.7V~5.5V, Dual Voltage Output Serial DAC*	SOT23-8	2.92	2.20	1.93
MAX5223EKA+TTR-ND	2.7V~5.5V, Dual Voltage Output Serial DAC*	SOT23-8	3437.50/2,500		
MAX5250ACAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	14.90	11.84	9.30
MAX5250AEAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	19.38	15.39	12.12
MAX5250BCAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	11.47	9.10	7.17
MAX5250BCPP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-Dip	10.52	8.35	6.58
MAX5250BEAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	14.90	11.84	9.30
MAX5251BCAP+-ND	3V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	11.47	9.10	7.17
MAX5253BCAP+-ND	3V, 12-Bit Quad Voltage Output Serial DAC*	20-SSOP	24.12	19.15	15.09
MAX5258EEE+-ND	5V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	5.65	4.83	4.07
MAX5259EEE+-ND	3V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	5.65	4.83	4.07
MAX5302CUA+-ND	5V, Low Power, 12-Bit Voltage Output Serial DAC*	8-µMAX	5.06	4.01	3.27
MAX5302EUA+-ND	5V, Low Power, 12-Bit Voltage Output Serial DAC*	8-µMAX	5.52	4.37	3.54
MAX5304EUA+-ND	5V, Low Power, 10-Bit Voltage Output Serial DAC*	8-µMAX	3.84	3.04	2.47
MAX5306EUE+-ND	2.7V, Low Power, 12-Bit Voltage Output Serial DAC*	16-TSSOP	19.99	15.49	12.39
MAX5308EUE+-ND	2.7V, Low Power, 10-Bit Voltage Output Serial DAC*	16-TSSOP	11.97	9.28	7.42
MAX5312EAE+-ND	5V~10V, 12-Bit Voltage Output Serial DAC*	16-SSOP	6.21	5.57	—
MAX5322EAI+-ND	5V~10V, Dual 12-Bit Voltage Output Serial DAC*	28-SSOP	12.79	11.77	—
MAX5352ACUA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-µMAX	12.64	10.04	7.90
MAX5352BCPA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-Dip	8.93	7.09	5.59
MAX5352BEUA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-µMAX	12.64	10.04	7.90
MAX5352BCUA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-µMAX	9.73	7.73	6.09
MAX5353AEUA+-ND	3.3V, Low Power, 12-Bit Volt. Output Serial DAC*	8-µMAX	16.44	13.06	10.28
MAX5354CPA-ND	5V, 10-Bit Voltage Output Serial DAC	8-Dip	7.61	5.74	3.69
MAX5354CUA+-ND	5V, 10-Bit Voltage Output Serial DAC*	8-µMAX	6.26	4.97	3.92
MAX5354EUA+-ND	5V, 10-Bit Voltage Output Serial DAC*	8-µMAX	7.46	5.92	4.67
MAX5355CUA+-ND	3.3V, 10-Bit Voltage Output Serial DAC*	8-µMAX	6.73	5.34	4.20
MAX5355EUA+-ND	3.3V, 10-Bit Voltage Output Serial DAC*	8-µMAX	8.74	6.94	5.47
MAX5360MEUK+TCT-ND	2.7V~3.6V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1.51	1.14	1.00
MAX5360MEUK+TTR-ND	2.7V~3.6V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1781.25/2,500		
MAX5362LEUK+TCT-ND	2.7V~5.5V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1.51	1.14	1.00
MAX5362LEUK+TTR-ND	2.7V~5.5V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1781.25/2,500		
MAX5362MEUK+TCT-ND	2.7V~5.5V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1.51	1.14	1.00
MAX5362MEUK+TTR-ND	2.7V~5.5V, 6-Bit 2-Wire Serial DAC*	SOT23-5	1781.25/2,500		
MAX5380LEUK+TCT-ND	2.7V~3.6V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2.23	1.68	1.47
MAX5380LEUK+TTR-ND	2.7V~3.6V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2625.00/2,500		
MAX5380MEUK+TCT-ND	2.7V~3.6V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2.23	1.68	1.47
MAX5380MEUK+TTR-ND	2.7V~3.6V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2625.00/2,500		
MAX5381LEUK+TCT-ND	4.5V~5.5V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2.23	1.68	1.47
MAX5381LEUK+TTR-ND	4.5V~5.5V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2625.00/2,500		
MAX5382LEUK+TCT-ND	2.7V~5.5V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2.23	1.68	1.47
MAX5382LEUK+TTR-ND	2.7V~5.5V, 8-Bit 2-Wire Serial DAC*	SOT23-5	2625.00/2,500		
MAX5383EUT+TCT-ND	2.7V~3.6V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2.23	1.68	1.47
MAX5383EUT+TTR-ND	2.7V~3.6V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2625.00/2,500		
MAX5384EUT+TCT-ND	4.5V~5.5V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2.23	1.68	1.47
MAX5384EUT+TTR-ND	4.5V~5.5V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2625.00/2,500		
MAX5385EUT+TCT-ND	2.7V~5.5V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2.23	1.68	1.47
MAX5385EUT+TTR-ND	2.7V~5.5V, 8-Bit 3-Wire Serial DAC*	SOT23-6	2625.00/2,500		
MAX5441ACUA+-ND	5V, 16-Bit Serial In Voltage Out DAC*	8-µMAX	25.11	19.95	15.72
MAX5442ACUB+-ND	5V, 16-Bit Serial In Voltage Out DAC*	10-µMAX	25.11	19.95	15.72
MAX5443AEUA+-ND	3V, 16-Bit Serial In Voltage Out DAC*	8-µMAX	29.46	23.49	18.48
MAX5480AEEE+-ND	8-Bit Parallel DAC*	16-QSOP	4.62	3.67	2.73
MAX5480BCEE+-ND	8-Bit Parallel DAC*	16-QSOP	3.20	2.55	2.00
MAX5480BEEE+-ND	8-Bit Parallel DAC*	16-QSOP	3.68	2.93	2.30
MAX5500AGAP+-ND	5V, 12-Bit Quad Voltage Output DAC* ***NEW!***	20-SSOP	9.52	8.44	8.08
MAX5510ETC+-ND	1.8V~5.5V, 8-Bit Voltage Output DAC*	12-TQFN	1.67	1.48	1.42
MAX5512EUA+-ND	Dual, Ultra Low Power 8-Bit Voltage Output DAC*	8-µMAX	2.00	1.78	1.70
MAX5513EUA+-ND	Dual, Ultra Low Power 8-Bit Voltage Output DAC*	8-µMAX	2.61	2.31	2.22
MAX5522EUA+-ND	Dual, Ultra-Low Power, 10-Bit Voltage Output DAC*	8-µMAX	2.46	2.18	2.09
MAX5523EUA+-ND	Dual, Ultra-Low Power, 10-Bit Voltage Output DAC*	8-µMAX	3.05	2.70	2.59
MAX5531ETC+-ND	Ultra-Low Power, 12-Bit Voltage Output DAC	12-TQFN	3.57	3.16	3.03
MAX5532EUA+-ND	Dual, Ultra-Low Power 12-Bit Voltage Output DAC*	8-µMAX	4.17	3.70	3.54
MAX5533EUA+-ND	Dual, Ultra-Low Power 12-Bit Voltage Output DAC*	8-µMAX	4.71	4.17	3.99
MAX5541CSA+-ND	16-Bit Serial-Input Voltage Output DAC*	8-SOIC	10.14	8.04	6.53
MAX5541ESA+-ND	16-Bit Serial-Input Voltage Output DAC*	8-SOIC	10.79	8.56	6.94
MAX5544CSA+-ND	5V Serial Input, Voltage Output 14-Bit DAC*	8-SOIC	9.45	7.50	6.08
MAX5550ETE+-ND	Dual, 10-Bit 30mA High Output Current DAC*	16-TQFN	5.58	5.02	—
MAX5556ESA+-ND	Stereo Audio DAC*	8-SOIC	1.50	1.35	—
MAX5590BEUG+-ND	Buffered, Octal, 12-Bit Voltage Output DAC*	24-TSSOP	14.66	13.79	—
MAX5661GCB+-ND	16-Bit DAC with Current and Voltage Outputs*	64-LQFP	10.81	9.19	7.82
MAX5721AUA+-ND	10-Bit, Dual Low Power Voltage Output DAC with Serial Interface* ***NEW!***	8-µMAX	7.56	5.86	4.70
MAX5721EUA+-ND	10-Bit, Dual LP Voltage Output DAC with Serial Interface*	8-µMAX	7.20	5.59	4.47
MAX5722EUA+-ND	12-Bit, LP Dual Voltage Output DAC with Serial Interface*	8-µMAX	11.85	9.19	7.35
MAX5741AUB+-ND	10-Bit, Low Power Quad Voltage Output DAC with Serial Interface*	10-µMAX	8.38	6.50	5.20
MAX5741EUB+-ND	10-Bit, Low Power Quad Voltage Ouput DAC with Serial Interface*	10-µMAX	7.98	6.19	4.95
MAX5742AUB+-ND	12-Bit, Low Power Quad Voltage Output DAC with Serial Interface*	10-µMAX	14.80	11.48	9.18
MAX5742EUB+-ND	12-Bit, Low Power Quad Voltage Output DAC with Serial Interface*	10-µMAX	14.09	10.93	8.74
MAX5774UCB+D-ND	14-Bit, 32-Ch.Voltage Out DAC with Serial Interface*	64-TQFP	72.79	65.95	—
MAX5820LEUA+-ND	8-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	1.49	1.34	—
MAX5820MEUA+-ND	8-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	1.49	1.34	—
MAX5821LEUA+-ND	10-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	4.76	4.11	4.04
MAX5821MEUA+-ND	10-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	4.76	4.11	4.04
MAX5822LEUA+-ND	12-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	7.99	7.15	—
MAX5822MEUA+-ND	12-Bit, LP Dual 2-Wire Serial Voltage Output DAC*	8-µMAX	7.99	7.15	—
MAX5841LEUB+-ND	10-Bit, LP Quad 2-Wire Serial Voltage Output DAC*	10-µMAX	6.50	5.68	5.59
MAX5841MEUB+-ND	10-Bit, LP Quad 2-Wire Serial Voltage Output DAC*	10-µMAX	6.50	5.68	5.59
MAX5842LEUB+-ND	12-Bit, LP Quad 2-Wire Serial Voltage Output DAC*	10-µMAX	10.92	9.84	—
MAX5842MEUB+-ND	12-Bit, LP Quad 2-Wire Serial Voltage Output DAC*	10-µMAX	10.92	9.84	—
MAX5853ETL+-ND	10-Bit, LP Dual Current-Output DAC* ***NEW!***	40-TQFN	26.34	17.56	12.73
MAX5854ETL+-ND	10-Bit, LP Dual Current-Output DAC* ***NEW!***	40-TQFN	29.49	19.66	14.25
MAX5865ETM+-ND	8-Bit ADC/10-Bit DAC 40MSPS Analog Front End* ***NEW!***	48-TQFN	19.32	12.88	9.33
MAX5866ETM+-ND	8-Bit ADC/10-Bit DAC 60MSPS Analog Front End* ***NEW!***	48-TQFN	20.97	13.98	10.13
MAX5873EGK+D-ND	12-Bit, 200MSPS Dual DAC with CMOS Inputs* ***NEW!***	68-QFN	17.24	14.20	13.39
MAX5874EGK+D-ND	14-Bit, 200MSPS Dual DAC with CMOS Inputs* ***NEW!***	68-QFN	22.53	18.55	17.49
MAX5885EGM+D-ND	16-Bit, 200MSPS DAC with CMOS Inputs* ***NEW!***	48-QFN	31.40	29.15	25.23
MAX5886EGK+D-ND	12-Bit, 500MSPS DAC with Diff. LVDS Inputs* ***NEW!***	68-QFN	35.60	33.06	28.60
MAX5888AEGK+D-ND	16-Bit, 500MSPS DAC with Diff. LVDS Inputs* ***NEW!***	68-QFN	144.90	134.55	116.44
MAX5891EGK+D-ND	16-Bit, 600MSPS DAC with LVDS Inputs* ***NEW!***	68-QFN	58.99	48.58	45.80
MAX5895EGK+D-ND	16-Bit, 500MSPS Dual DAC with CMOS Inputs* ***NEW!***	68-QFN	33.49	27.58	26.00
MAX11040GUU+-ND	24-Bit, Quad Ch. Simultaneous Sampling ADC* ***NEW!***	38-TSSOP	26.91	21.37	17.25
MAX11600EKA+TCT-ND	8-Bit, Quad Channel Serial ADC* ***NEW!***	SOT23-8	3.34	2.52	2.21
MAX11600EKA+TTR-ND	8-Bit, Quad Channel Serial ADC* ***NEW!***	SOT23-8	3937.50/2,500		
MAX11601EKA+TCT-ND	8-Bit, Quad Channel Serial ADC* ***NEW!***	SOT23-8	3.34	2.52	2.21
MAX11601EKA+TTR-ND	8-Bit, Quad Channel Serial ADC* ***NEW!***	SOT23-8	3937.50/2,500		
MAX11602EEE+-ND	8-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	2.95	2.34	1.89
MAX11603EEE+-ND	8-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	2.95	2.34	1.89
MAX11604EEE+-ND	8-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	3.86	3.07	2.48
MAX11605EEE+-ND	8-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	3.86	3.07	2.48
MAX11606EUA+-ND	10-Bit, Quad Channel Serial ADC* ***NEW!***	8-µMAX	3.76	2.99	2.42
MAX11607EUA+-ND	10-Bit, Quad Channel Serial ADC* ***NEW!***	8-µMAX	3.76	2.99	2.42
MAX11608EEE+-ND	10-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	4.27	3.39	2.74
MAX11609EEE+-ND	10-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	4.27	3.39	2.74
MAX11610EEE+-ND	10-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	6.08	4.82	3.90
MAX11611EEE+-ND	10-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	6.08	4.82	3.90
MAX11612EUA+-ND	12-Bit, Quad Channel Serial ADC* ***NEW!***	8-µMAX	6.51	5.16	4.18

* ***RoHS Compliant***

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

(Continued)

MAXIM INNOVATION DELIVERED™ DigiReel® (Cont.) DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX11613EUA+-ND	12-Bit, Quad Channel Serial ADC* ***NEW!***	8-µMAX	6.51	5.16	4.18
MAX11614EEE+-ND	12-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	7.12	5.65	4.57
MAX11615EEE+-ND	12-Bit, 8-Channel Serial ADC* ***NEW!***	16-QSOP	7.12	5.65	4.57
MAX11616EEE+-ND	12-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	8.52	6.76	5.47
MAX11617EEE+-ND	12-Bit, 12-Channel Serial ADC* ***NEW!***	16-QSOP	8.52	6.76	5.47
MAX19515ETM+-ND	10-Bit, Dual Channel 65MSPS ADC* ***NEW!***	48-TQFN	23.76	15.84	11.48
MAX19516ETM+-ND	10-Bit, Dual Channel 100MSPS ADC* ***NEW!***	48-TQFN	19.13	15.75	14.85
MAX19517ETM+-ND	10-Bit, Dual Channel 130MSPS ADC* ***NEW!***	48-TQFN	28.73	23.66	22.32
MAX19700ETM+-ND	10-Bit, Dual 7.5MSPS Analog Front End* ***NEW!***	48-TQFN	24.54	16.36	11.86
MAX19707ETM+-ND	10-Bit, Dual 45MSPS Analog Front End* ***NEW!***	48-TQFN	29.61	19.74	14.31
MAX19708ETM+-ND	10-Bit, Dual 11MSPS Analog Front End* ***NEW!***	48-TQFN	26.46	17.64	12.78
MAX19710ETN+-ND	10-Bit, Dual 7.5MSPS Analog Front End* ***NEW!***	56-TQFN	26.46	17.64	12.78
MAX19711ETN+-ND	10-Bit, Dual 11MSPS Analog Front End* ***NEW!***	56-TQFN	27.72	18.48	13.39
MAX19712ETN+-ND	10-Bit, Dual 22MSPS Analog Front End* ***NEW!***	56-TQFN	28.05	18.70	13.55
MAX19713ETN+-ND	10-Bit, Dual 45MSPS Analog Front End* ***NEW!***	56-TQFN	16.75	13.79	13.00
MX7224KN+-ND	8-Bit CMOS DAC with Output Amplifier*	18-Dip	5.93	4.74	3.95
MX7224LN+-ND	8-Bit CMOS DAC with Output Amplifier*	18-Dip	8.33	6.66	5.55
MX7523JCWE+-ND	8-Bit Multiplying CMOS D/A Converter*	16-SOIC	4.88	3.90	3.45
MX7523JN+-ND	8-Bit Multiplying CMOS D/A Converter*	16-Dip	4.88	3.90	3.45
MX7524JCSE+-ND	8-Bit CMOS Buffered Multiplying DAC*	16-SOIC	4.73	3.78	3.15
MX7524KCSE+-ND	8-Bit CMOS Buffered Multiplying DAC*	16-SOIC	4.73	3.78	3.15
MX7528JN+-ND	8-Bit Dual CMOS Buffered Multiplying DAC*	20-Dip	7.11	5.69	4.74
MX7528KCWP+-ND	8-Bit Dual CMOS Buffered Multiplying DAC*	20-SOIC	7.11	5.69	4.74
MX7528KEQP+-ND	8-Bit Dual CMOS Buffered Multiplying DAC*	20-PLCC	10.50	8.40	7.00
MX7537JN+-ND	12-Bit Dual CMOS Parallel Loading Multiplying DAC*	24-Dip	21.06	16.85	14.04
MX7538KEWG+-ND	14-Bit CMOS MPU Compatible DAC*	24-SOIC	29.30	23.44	20.75
MX7541AJN+-ND	12-Bit CMOS Multiplying DAC*	18-Dip	10.73	8.58	7.15
MX7542JN+-ND	12-Bit CMOS MPU Compatible DAC*	16-Dip	12.00	9.60	8.50
MX7543JN+-ND	12-Bit CMOS Serial Input DAC*	16-Dip	12.00	9.60	8.00
MX7548JN+-ND	12-Bit CMOS 8-Bit MPU Compatible DAC*	20-Dip	11.37	9.10	7.58
MX7548KN+-ND	12-Bit CMOS 8-Bit MPU Compatible DAC* ***NEW!***	20-Dip	13.82	11.05	9.21
MX7837JN+-ND	12-Bit Dual, Complete Multiplying DAC*	24-Dip	21.80	17.31	12.83
MX7847JN+-ND	12-Bit Dual, Complete Multiplying DAC*	24-Dip	21.81	17.32	13.64
MX7847JR+-ND	12-Bit Dual, Complete Multiplying DAC*	24-SOIC	21.81	17.32	12.83
REF01CSA+-ND	10V Precision Voltage Reference*	8-SOIC	2.85	2.28	1.90
REF02CESA+-ND	5V Precision Voltage Reference*	8-SOIC	3.62	2.90	2.42
REF02CP+-ND	5V Precision Voltage Reference*	8-Dip	3.15	2.52	1.98
REF02CSA+-ND	5V Precision Voltage Reference*	8-SOIC	3.15	2.52	1.98
REF02HSA+-ND	5V Precision Voltage Reference*	8-SOIC	4.20	3.36	2.80

MAXIM INNOVATION DELIVERED™ DigiReel® DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX5128ELA+TCT-ND	128-Tap Linear-Taper Digital Potentiometer*	8-µDFN	1.62	1.22	1.07
MAX5128ELA+TTR-ND	128-Tap Linear-Taper Digital Potentiometer*	8-µDFN	1906.25/2,500		
MAX5160LEUA+-ND	32-Tap Low Power Digital Potentiometer*	8-µMAX	1.57	1.24	1.02
MAX5160MEUA+-ND	32-Tap Low Power Digital Potentiometer*	8-µMAX	1.57	1.24	1.02
MAX5160NEUA+-ND	32-Tap Low Power Digital Potentiometer*	8-µMAX	1.57	1.24	1.02
MAX5161LEZT+TCT-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1.11	.84	.74
MAX5161LEZT+TTR-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1312.50/2,500		
MAX5161MEZT+TCT-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1.11	.84	.74
MAX5161MEZT+TTR-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1312.50/2,500		
MAX5161NEZT+TCT-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1.11	.84	.74
MAX5161NEZT+TTR-ND	32-Tap Low Power Digital Potentiometer*	SOT23-6	1312.50/2,500		
MAX5386MATE+-ND	Dual, 256-Tap, Linear Taper Digital Pot.* ***NEW!***	16-TQFN	1.47	1.31	1.25
MAX5386NATE+-ND	Dual, 256-Tap, Linear Taper Digital Pot.* ***NEW!***	16-TQFN	1.47	1.31	1.25
MAX5401EKA-TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8	2.68	2.02	1.77
MAX5401EKA+TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	2.09	1.58	1.39
MAX5401EKA+TTR-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	2468.75/2,500		
MAX5400EKA+TCT-ND	256-Tap SOT PoT, Low Drift Digital Potentiometer*	SOT23-8	2.09	1.58	1.39
MAX5400EKA+TTR-ND	256-Tap SOT PoT, Low Drift Digital Potentiometer*	SOT23-8	2468.75/2,500		
MAX5403EUB+-ND	Dual, 256-Tap Low Drift Digital Potentiometer*	10-µMAX	3.68	3.03	2.37
MAX5404EUB+-ND	Dual, 256-Tap Low Drift Digital Potentiometer*	10-µMAX	3.68	3.03	2.37
MAX5405EUB+-ND	Dual, 256-Tap Low Drift Digital Potentiometer*	10-µMAX	3.68	3.03	2.37
MAX5407EKA+TCT-ND	32-Tap Audio Log Taper Digital Potentiometer*	SOT23-8	1.86	1.40	1.23
MAX5407EKA+TTR-ND	32-Tap Audio Log Taper Digital Potentiometer*	SOT23-8	2187.50/2,500		
MAX5410EEE+-ND	Dual, Audio Log Taper Digital Potentiometer*	16-QSOP	4.88	3.91	2.93
MAX5413EUD+-ND	Dual, 256-Tap, Low Drift Digital Potentiometer*	14-TSSOP	3.68	3.03	2.37
MAX5414EUD+-ND	Dual, 256-Tap Low Drift Digital Potentiometer*	14-TSSOP	3.68	3.03	2.37
MAX5415EUD+-ND	Dual, 256-Tap Low Drift Digital Potentiometer*	14-TSSOP	3.68	3.03	2.37
MAX5418LETA+TCT-ND	2.7V~5.25V, 256-Tap Nonvolatile I^2C-Interface Digital Potentiometer*	8-TDFN	2.99	2.26	1.98
MAX5418LETA+TTR-ND	2.7V~5.25V, 256-Tap Nonvolatile I^2C-Interface Digital Potentiometer*	8-TDFN	3531.25/2,500		
MAX5423ETA+TCT-ND	2.7V~5.25V, 256-Tap Nonvolatile SPI-Interface Digital Potentiometer*	8-TDFN	2.99	2.26	1.98
MAX5423ETA+TTR-ND	2.7V~5.25V, 256-Tap Nonvolatile SPI-Interface Digital Potentiometer*	8-TDFN	3531.25/2,500		
MAX5427EUA+-ND	OTP, Linear-Taper Digital Potentiometer* ***NEW!***	8-µMAX	1.34	1.16	1.10
MAX5428EUA+-ND	OTP, Linear-Taper Digital Potentiometer* ***NEW!***	8-µMAX	1.34	1.16	1.10
MAX5429EUA+-ND	OTP, Linear Taper Digital Potentiometer*	8-µMAX	1.34	1.16	1.10
MAX5432LETA+TCT-ND	2.7V~5.25V, 32-Tap Nonvolatile I^2C-Interface Linear Digital Potentiometer*	8-TDFN	1.51	1.14	1.00
MAX5432LETA+TTR-ND	2.7V~5.25V, 32-Tap Nonvolatile I^2C-Interface Linear Digital Potentiometer*	8-TDFN	1781.25/2,500		
MAX5434LEZT+TCT-ND	2.7V~5.25V, 32-Tap Nonvolatile I^2C-Interface Linear Digital Potentiometer*	SOT23-6	1.46	1.10	.97
MAX5434LEZT+TTR-ND	2.7V~5.25V, 32-Tap Nonvolatile I^2C-Interface Linear Digital Potentiometer*	SOT23-6	1718.75/2,500		
MAX5434NEZT+TCT-ND	2.7V~5.25V, 32-Tap Nonvolatile I2C-Interface Linear Digital Potentiometer* ***NEW!***	TSOT23-6	1.46	1.10	.97
MAX5434NEZT+TTR-ND	2.7V~5.25V, 32-Tap Nonvolatile I2C-Interface Linear Digital Potentiometer* ***NEW!***	TSOT23-6	1718.75/2,500		
MAX5435MEZT+TCT-ND	2.7V~5.25V, 32-Tap Nonvolatile I2C-Interface Linear Digital Potentiometer* ***NEW!***	TSOT23-6	1.46	1.10	.97
MAX5435MEZT+TTR-ND	2.7V~5.25V, 32-Tap Nonvolatile I2C-Interface Linear Digital Potentiometer* ***NEW!***	TSOT23-6	1718.75/2,500		
MAX5436EUB+-ND	15V, 128-Tap, Low Drift Digital Potentiometer*	10-µMAX	4.11	3.68	—
MAX5437EUD+-ND	15V, 128-Tap, Low Drift Digital Potentiometer*	14-TSSOP	5.11	4.63	—
MAX5438EUB+-ND	15V, 128-Tap, Low Drift Digital Potentiometer*	10-µMAX	4.11	3.68	—
MAX5450EUB+-ND	Dual, 256-Tap, Up/Down Interface Digital Pot.*	10-µMAX	3.68	3.03	2.37
MAX5451EUD+-ND	Dual, 256-Tap, Up/Down Interface Digital Pot.*	14-TSSOP	3.68	3.03	2.37
MAX5452EUB+-ND	Dual, 256-Tap, Up/Down Interface Digital Pot.*	10-µMAX	3.68	3.03	2.37
MAX5455EUD+-ND	Dual, 256-Tap, Up/Down Interface Digital Pot.*	14-TSSOP	3.68	3.03	2.37
MAX5456EEE+-ND	2.7V~5.5V Stereo Audio Taper Potentiometer* ***NEW!***	16-QSOP	2.84	2.46	2.39

MAXIM INNOVATION DELIVERED™ DigiReel® (Cont.) DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX5460EXK+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-5	.98	.74	.65
MAX5460EXK+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-5	1156.25/2,500		
MAX5461EXT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	.98	.74	.65
MAX5461EXT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	1156.25/2,500		
MAX5462EXT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	.98	.74	.65
MAX5462EXT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	1156.25/2,500		
MAX5463EXK+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer* ***NEW!***	SC70-5	.98	.74	.65
MAX5463EXK+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer* ***NEW!***	SC70-5	1156.25/2,500		
MAX5464EXT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	.98	.74	.65
MAX5464EXT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	1156.25/2,500		
MAX5465EXT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	.98	.74	.65
MAX5465EXT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SC70-6	1156.25/2,500		
MAX5467EUT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SOT23-6	.98	.74	.65
MAX5467EUT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SOT23-6	1156.25/2,500		
MAX5468EUT+TCT-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SOT23-6	.98	.74	.65
MAX5468EUT+TTR-ND	32-Tap FleaPoT™ 2-Wire Digital Potentiometer*	SOT23-6	1156.25/2,500		
MAX5471EZT+TCT-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	TSOT23-6	1.25	.94	.83
MAX5471EZT+TTR-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	TSOT23-6	1468.75/2,500		
MAX5472EZT+TCT-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	TSOT23-6	1.25	.94	.83
MAX5472EZT+TTR-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	TSOT23-6	1468.75/2,500		
MAX5474EKA+TCT-ND	32-Tap Nonvolatile Linear-Taper Digital Potentiometer*	SOT23-8	1.33	1.00	.88
MAX5474EKA+TTR-ND	32-Tap Nonvolatile Linear-Taper Digital Potentiometer*	SOT23-8	1562.50/2,500		
MAX5475EKA+TCT-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	SOT23-8	1.33	1.00	.88
MAX5475EKA+TTR-ND	32-Tap Nonvolatile Linear-Taper Digital Pot.* ***NEW!***	SOT23-8	1562.50/2,500		
MAX5477EUD+-ND	Dual, 256-Tap, Nonvolatile I^2C-Interface Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5477ETE+-ND	Dual, 256-Tap, Nonvolatile, I^2C-Interface Digital Potentiometer* ***NEW!***	16-TQFN	4.72	3.88	3.03
MAX5478EUD+-ND	Dual, 256-Tap, Nonvolatile, I^2C-Interface Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5479EUD+-ND	Dual, 256-Tap, Nonvolatile, I^2C-Interface Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5479ETE+-ND	Dual, 256-Tap, Nonvolatile, I^2C-Interface Digital Potentiometer* ***NEW!***	16-TQFN	4.72	3.88	3.03
MAX5481EUD+-ND	10-Bit, Nonvolatile, Linear Taper Digital Potentiometer*	14-TSSOP	3.23	2.86	2.73
MAX5482EUD+-ND	10-Bit, Nonvolatile, Linear-Taper Digital Potentiometer*	14-TSSOP	3.23	2.86	2.73
MAX5483EUD+-ND	10-Bit, Nonvolatile, Linear-Taper Digital Potentiometer*	14-TSSOP	3.23	2.86	2.73
MAX5484EUD+-ND	10-Bit, Nonvolatile, Linear-Taper Digital Potentiometer*	14-TSSOP	3.23	2.86	2.73
MAX5487ETE+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	16-TQFN	4.72	3.88	3.03
MAX5487EUD+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5488ETE+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	16-TQFN	4.72	3.88	3.03
MAX5488EUD+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5489ETE+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	16-TQFN	4.72	3.88	3.03
MAX5489EUD+-ND	Dual, 256-Tap Nonvolatile Linear-Taper Digital Pot.*	14-TSSOP	4.72	3.88	3.03
MAX5490GC01000+TCT-ND	100kΩ 1:1 Precision-Matched Resistor-Divider*	SOT-23	1.56	1.18	1.04
MAX5490GC01000+TTR-ND	100kΩ 1:1 Precision-Matched Resistor-Divider*	SOT-23	1843.75/2,500		
MAX5490TA05000+TCT-ND	100kΩ 5:1 Precision-Matched Resistor-Divider*	SOT-23	3.42	2.58	2.26
MAX5490TA05000+TTR-ND	100kΩ 5:1 Precision-Matched Resistor-Divider*	SOT-23	4031.25/2,500		
MAX5490XC25000+TCT-ND	100kΩ 25:1 Precision-Matched Resistor-Divider*	SOT-23	1.56	1.18	1.04
MAX5490XC25000+TTR-ND	100kΩ 25:1 Precision-Matched Resistor-Divider*	SOT-23	1843.75/2,500		
MAX5491LA01000+TCT-ND	30kΩ 1:1 Precision-Matched Resistor-Divider*	SOT-23	3.42	2.58	2.26
MAX5491LA01000+TTR-ND	30kΩ 1:1 Precision-Matched Resistor-Divider*	SOT-23	4031.25/2,500		
MAX5491NA01500+TCT-ND	30kΩ 1.5:1 Precision-Matched Resistor-Divider*	SOT-23	3.42	2.58	2.26
MAX5491NA01500+TTR-ND	30kΩ 1.5:1 Precision-Matched Resistor-Divider*	SOT-23	4031.25/2,500		
MAX5492LC10000+TCT-ND	10kΩ 10:1 Precision-Matched Resistor-Divider*	SOT23-5	1.56	1.18	1.04
MAX5492LC10000+TTR-ND	10kΩ 10:1 Precision-Matched Resistor-Divider*	SOT23-5	1843.75/2,500		
MAX5494ETE+-ND	10-Bit Dual Nonvolatile, Linear-Taper Digital Pot.*	16-TQFN-EP	5.96	5.28	4.85
MAX5495ETE+-ND	10-Bit Dual Nonvolatile, Linear-Taper Digital Pot.*	16-TQFN	5.96	5.28	4.85
MAX5496ETE+-ND	10-Bit Dual Nonvolatile, Linear-Taper Digital Pot.*	16-TQFN	5.96	5.28	4.85
MAX5497ETE+-ND	10-Bit Dual Nonvolatile, Linear-Taper Digital Pot.*	16-TQFN	5.96	5.28	4.85
MAX5527GUA+-ND	64-Tap, Linear-Taper Digital Potentiometer* ***NEW!***	8-µMAX	1.16	1.04	—
MAX5529GUA+-ND	64-Tap, Linear-Taper Digital Potentiometer*	8-µMAX	1.16	1.04	—

MAXIM INNOVATION DELIVERED™ DigiReel® INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS8023-RJX+-ND	Smart Card Interface* ***NEW!***	28-TSSOP	3.54	2.36	1.71
DS8024-RJX+-ND	Smart Card Interface* ***NEW!***	28-TSSOP	3.48	2.32	1.68
DS8024-RRX+-ND	Smart Card Interface* ***NEW!***	28-SOIC	3.48	2.32	1.68
DS8113-RNG+-ND	Smart Card Interface* ***NEW!***	28-SOIC	3.15	2.10	1.52
MAX200CPP-ND	+5V, RS-232 Transceiver with .1µF External Capacitors	20-Dip	8.24	6.22	3.99
MAX200EWP+-ND	+5V, RS-232 Transceiver with .1µF External Caps.* ***NEW!***	20-SOIC	11.19	7.46	5.40
MAX201CPD+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.* ***NEW!***	14-Dip	3.75	2.50	1.81
MAX201CWE+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.*	16-SOIC	3.75	2.50	1.81
MAX201EWE+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.* ***NEW!***	16-SOIC	4.92	3.28	2.37
MAX202CPE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-Dip	3.75	2.50	1.81
MAX202CSE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.75	2.50	1.81
MAX202CUE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors* ***NEW!***	16-TSSOP	3.75	2.50	1.81
MAX202CWE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.75	2.50	1.81
MAX202ECPE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-Dip	4.74	3.16	2.29
MAX202ECSE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	4.74	3.16	2.29
MAX202ECUE+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	16-TSSOP	4.32	2.88	2.08
MAX202ECWE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	4.74	3.16	2.29
MAX202EEPE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-Dip	6.12	4.08	2.95
MAX202EESE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	6.12	4.08	2.95
MAX202EEUE+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	16-TSSOP	5.61	3.74	2.71
MAX202EEWE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	6.12	4.08	2.95
MAX202EPE+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	16-Dip	4.50	3.00	2.17
MAX202ESE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	4.50	3.00	2.17
MAX202EWE+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	16-SOIC	4.50	3.00	2.17
MAX203CPP+G36-ND	+5V RS-232 Transceiver*	20-Dip	8.43	5.62	4.07
MAX203CWP+G36-ND	+5V RS-232 Transceiver*	20-SOIC	8.43	5.62	4.07
MAX203ECPP+G36-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	20-Dip	9.21	6.14	4.45
MAX203ECWP+G36-ND	+5V RS-232 Transceiver, ESD Protected*	20-SOIC	9.21	6.14	4.45
MAX203EEPP+G36-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	20-Dip	13.14	8.76	6.35
MAX203EEWP+G36-ND	+5V RS-232 Transceiver, ESD Protected*	20-SOIC	13.14	8.76	6.35

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX203EPP+G36-ND	+5V RS-232 Transceiver* ***NEW!***	20-Dip	10.11	6.74	4.88
MAX203EWP+G36-ND	+5V RS-232 Transceiver* ***NEW!***	20-SOIC	10.11	6.74	4.88
MAX204CPE+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	16-Dip	6.66	4.44	3.21
MAX204CWE+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	16-SOIC	6.66	4.44	3.21
MAX204EWE+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	16-SOIC	8.01	5.34	3.87
MAX205CPG+G36-ND	+5V RS-232 Transceiver*	24-Dip	18.54	12.36	8.96
MAX205ECPG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	20.85	13.90	10.07
MAX205ECPG+G36-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	20.85	13.90	10.07
MAX205EEPG+G36-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	22.21	18.81	16.65
MAX205EPG+G36-ND	+5V RS-232 Transceiver* ***NEW!***	24-Dip	21.00	16.80	14.00
MAX206CAG+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	24-SSOP	9.00	6.00	4.35
MAX206CNG+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	24-Dip	8.55	5.70	4.13
MAX206CWG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-SOIC	8.55	5.70	4.13
MAX206EAG+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	24-SSOP	10.71	7.14	5.17
MAX206ECAG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SSOP	9.90	6.60	4.78
MAX206ECWG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SOIC	9.90	6.60	4.78
MAX206EEAG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SSOP	12.93	8.62	6.24
MAX206EEWG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SOIC	12.93	8.62	6.24
MAX206EWG+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	24-SOIC	10.26	6.84	4.95
MAX207CAG+-ND	+5V RS-232 Transceiver w/.1µF External Caps.* ***NEW!***	24-SSOP	9.00	6.00	4.35
MAX207CNG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-Dip	8.55	5.70	4.13
MAX207CWG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-SOIC	8.55	5.70	4.13
MAX207ECAG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SSOP	9.90	6.60	4.78
MAX207ECNG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	9.90	6.60	4.78
MAX207ECWG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SOIC	9.90	6.60	4.78
MAX207EEAG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SSOP	12.93	8.62	6.24
MAX207EEWG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SOIC	12.93	8.62	6.24
MAX208CAG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-SSOP	9.00	6.00	4.35
MAX208CNG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-Dip	8.55	5.70	4.13
MAX208CWG+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	24-SOIC	8.55	5.70	4.13
MAX208ECAG+-ND	+5V RS-232 Transceiver, ESD Protected*	24-SSOP	9.90	6.60	4.78
MAX208ECNG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	9.90	6.60	4.78
MAX208ECWG+-ND	+5V RS-232 Transceiver, ESD Protected*	24-SOIC	9.90	6.60	4.78
MAX208EEAG+-ND	+5V RS-232 Transceiver, ESD Protected*	24-SSOP	12.93	8.62	6.24
MAX208EENG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-Dip	12.93	8.62	6.24
MAX208EEWG+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	24-SOIC	12.93	8.62	6.24
MAX209CNG-ND	+5V/+9V~+13.2V RS-232 Transcvr. with .1µF External Caps.	24-Dip	7.55	5.70	3.65
MAX209CNG+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.* ***NEW!***	24-Dip	8.55	5.70	4.13
MAX209CWG+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.* ***NEW!***	24-SOIC	8.55	5.70	4.13
MAX209ENG+-ND	+5V/+9V~+13.2V RS-232 Transcvr w/ .1µF External Caps.* ***NEW!***	24-Dip	10.26	6.84	4.95
MAX211CAI+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	28-SSOP	9.00	6.00	4.35
MAX211CWI+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	28-SOIC	8.55	5.70	4.13
MAX211EAI+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	28-SSOP	10.71	7.14	5.17
MAX211ECAI+-ND	+5V RS-232 Transceiver, ESD Protected*	28-SSOP	10.38	6.92	5.01
MAX211ECWI+-ND	+5V RS-232 Transceiver, ESD Protected*	28-SOIC	9.90	6.60	4.78
MAX211EEAI+-ND	+5V RS-232 Transceiver, ESD Protected*	28-SSOP	12.96	8.64	6.26
MAX211EEWI+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	28-SOIC	12.36	8.24	5.97
MAX211EWI+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	28-SOIC	10.26	6.84	4.95
MAX212CAG+-ND	+3V Low Power True RS-232 Transceiver* ***NEW!***	24-SSOP	9.81	6.54	4.74
MAX212EAG+-ND	+3V Low Power True RS-232 Transceiver* ***NEW!***	24-SSOP	14.04	9.36	6.78
MAX213CAI+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	28-SSOP	9.00	6.00	4.35
MAX213CWI+-ND	+5V RS-232 Transceiver with .1µF External Capacitors*	28-SOIC	8.55	5.70	4.13
MAX213EAI+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	28-SSOP	10.71	7.14	5.17
MAX213ECAI+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	28-SSOP	10.38	6.92	5.01
MAX213ECWI+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	28-SOIC	9.90	6.60	4.78
MAX213EEAI+-ND	+5V RS-232 Transceiver, ESD Protected*	28-SSOP	12.96	8.64	6.26
MAX213EEWI+-ND	+5V RS-232 Transceiver, ESD Protected* ***NEW!***	28-SOIC	12.36	8.24	5.97
MAX213EWI+-ND	+5V RS-232 Transceiver with .1µF External Caps.* ***NEW!***	28-SOIC	11.19	7.46	5.40
MAX214CPI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver* ***NEW!***	28-Dip	11.19	7.46	5.40
MAX214CWI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver*	28-SOIC	10.26	6.84	4.95
MAX214EPI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver* ***NEW!***	28-Dip	14.01	9.34	6.77
MAX214EWI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver* ***NEW!***	28-SOIC	14.01	9.34	6.77
MAX216CWN+-ND	Low Power AppleTalk Interface Transceiver* ***NEW!***	18-SOIC	10.17	6.78	4.91
MAX218CAP+-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver* ***NEW!***	20-SSOP	5.37	3.58	2.59
MAX218CPP-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver	20-Dip	5.37	3.58	2.59
MAX218CPP+-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver*	20-Dip	5.37	3.58	2.59
MAX218CWP+-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver* ***NEW!***	20-SOIC	5.37	3.58	2.59
MAX218CWP-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver	20-SOIC	4.74	3.58	2.30
MAX218EAP+-ND	1.8V~4.25V Powered True RS-232 Dual Transceiver* ***NEW!***	20-SSOP	7.65	5.10	3.69
MAX220CPE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-Dip	6.24	4.16	3.01
MAX220CSE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	6.24	4.16	3.01
MAX220CWE+-ND	+5VMultichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	6.24	4.16	3.01
MAX220EPE+-ND	+5V, Multichannel RS-232 Driver/Receiver* ***NEW!***	16-Dip	7.47	4.98	3.61
MAX220ESE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	7.47	4.98	3.61
MAX220EWE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	7.47	4.98	3.61
MAX221CAE+-ND	+5V RS-232 Transceiver with Shutdown* ***NEW!***	16-SSOP	3.06	2.04	1.47
MAX221CUE+-ND	+5V RS-232 Transceiver with Shutdown*	16-TSSOP	3.06	2.04	1.47
MAX221EAE+-ND	+5V RS-232 Transceiver with Shutdown* ***NEW!***	16-SSOP	4.23	2.82	2.04
MAX221ECAE+-ND	+5V RS-232 Transcvr w/ Shutdown, ESD Protected* ***NEW!***	16-SSOP	3.30	2.20	1.59
MAX221ECUE+-ND	+5V RS-232 Transceiver with Shutdown, ESD Protected*	16-TSSOP	3.30	2.20	1.59
MAX221EEAE+-ND	+5V RS-232 Transceiver with Shutdown, ESD Protected*	16-SSOP	4.47	2.98	2.16
MAX221EEUE+-ND	+5V RS-232 Transceiver with Shutdown, ESD Protected*	16-TSSOP	4.47	2.98	2.16
MAX221EUE+-ND	+5V RS-232 Transceiver with Shutdown* ***NEW!***	16-TSSOP	4.23	2.82	2.04
MAX222CPN+-ND	+5V Multichannel RS-232 Driver/Receiver with Shutdown*	18-Dip	5.52	3.68	2.66
MAX222CWN+-ND	+5V Multichannel RS-232 Driver/Receiver with Shutdown*	18-SOIC	5.52	3.68	2.66
MAX222EPN+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	18-Dip	6.60	4.40	3.19
MAX222EWN+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	18-SOIC	6.60	4.40	3.19
MAX223CAI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SSOP	9.81	6.54	4.74
MAX223CWI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SOIC	9.33	6.22	4.50
MAX223EAI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SSOP	11.67	7.78	5.64
MAX223EWI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SOIC	11.19	7.46	5.40
MAX225CWI+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	28-SOIC	18.97	14.32	8.42
MAX225CWI+G36-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	28-SOIC	21.48	14.32	10.38
MAX230CPP-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown	20-Dip	8.24	6.22	3.99
MAX230CPP+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	20-Dip	9.33	6.22	4.50
MAX231CPD+-ND	+5V / +7.5V~13.2V Multichannel RS-232 Driver/ Receiver*	14-Dip	3.75	2.50	1.81
MAX231CWE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	3.75	2.50	1.81
MAX232ACPE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-Dip	6.24	4.16	3.01
MAX232ACSE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	6.24	4.16	3.01
MAX232ACWE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	5.52	3.68	2.66
MAX232AEPE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-Dip	7.47	4.98	3.61
MAX232AESE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	7.47	4.98	3.61
MAX232AEWE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	6.60	4.40	3.19
MAX232CPE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-Dip	3.75	2.50	1.81
MAX232CSE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	3.75	2.50	1.81
MAX232CWE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	3.75	2.50	1.81
MAX232ECPE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-Dip	4.74	3.16	2.29
MAX232ECSE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-SOIC	4.74	3.16	2.29
MAX232ECWE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-SOIC	4.74	3.16	2.29
MAX232EEWE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-SOIC	6.12	4.08	2.95
MAX232EEPE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-Dip	6.12	4.08	2.95
MAX232EESE+-ND	+5V Multichannel RS-232 Driver/Receiver, ESD Protected*	16-SOIC	6.12	4.08	2.95
MAX232EPE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-Dip	4.50	3.00	2.17
MAX232ESE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	4.50	3.00	2.17
MAX232EWE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	4.50	3.00	2.17
MAX233ACPP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-Dip	12.18	8.12	5.88
MAX233ACWP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-SOIC	12.18	8.12	5.88
MAX233AEPP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-Dip	16.56	11.04	8.00
MAX233AEWP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-SOIC	16.56	11.04	8.00
MAX233CPP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-Dip	8.43	5.62	4.07
MAX233EPP+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	20-Dip	10.11	6.74	4.88
MAX234CPE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-Dip	6.66	4.44	3.21
MAX234CWE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	6.66	4.44	3.21
MAX234EPE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-Dip	8.73	5.82	4.21
MAX234EWE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	8.01	5.34	3.87
MAX235CPG+G36-ND	+5V Multichannel RS-232 Driver/ Receiver w/ Shutdown*	24-Dip	18.54	12.36	8.96
MAX235EPG+G36-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	24-Dip	21.00	16.80	14.00
MAX236CNG+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	24-Dip	8.55	5.70	4.13
MAX236CWG+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	24-SOIC	8.55	5.70	4.13
MAX236ENG+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	24-Dip	10.26	6.84	4.95
MAX236EWG+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	24-SOIC	10.26	6.84	4.95
MAX237CNG+-ND	+5V Multichannel RS-232 Driver/Receiver*	24-Dip	8.55	5.70	4.13
MAX237CWG+-ND	+5V Multichannel RS-232 Driver/Receiver*	24-SOIC	8.55	5.70	4.13
MAX237ENG+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	24-Dip	10.26	6.84	4.95
MAX237EWG+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	24-SOIC	10.26	6.84	4.95
MAX238CNG+-ND	+5V Multichannel RS-232 Driver/Receiver*	24-Dip	8.55	5.70	4.13
MAX238CWG+-ND	+5V Multichannel RS-232 Driver/Receiver*	24-SOIC	8.55	5.70	4.13
MAX238EWG+-ND	+5V Multichannel RS-232 Driver/Receiver*	24-SOIC	10.26	6.84	4.95
MAX239CNG+-ND	+5V / +7.5V~13.2V Multichannel RS-232 Driver/ Receiver*	24-Dip	8.55	5.70	4.13
MAX239CWG+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	24-SOIC	8.55	5.70	4.13
MAX239ENG+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	24-Dip	10.26	6.84	4.95
MAX239EWG+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	24-SOIC	10.26	6.84	4.95
MAX240CMH+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	44-MQFP	12.40	9.36	6.00
MAX241CAI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SSOP	9.00	6.00	4.35
MAX241CWI+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	28-SOIC	8.55	5.70	4.13
MAX241EAI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SSOP	10.71	7.14	5.17
MAX241ECAI+-ND	+5V Multich. RS-232 Driver/Rcvr w/ Shutdown, ESD Prot.* ***NEW!***	28-SSOP	10.38	6.92	5.01
MAX241ECWI+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	28-SOIC	9.90	6.60	4.78
MAX241EEAI+-ND	+5V Multich. RS-232 Driver/Rcvr w/ Shutdown, ESD Prot.* ***NEW!***	28-SSOP	12.96	8.64	6.26
MAX241EEWI+-ND	+5V Multich. RS-232 Driver/Rcvr w/ Shutdown, ESD Prot.* ***NEW!***	28-SOIC	12.36	8.24	5.97
MAX241EWI+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	28-SOIC	10.26	6.84	4.95
MAX242CAP+-ND	+5V Multich. RS-232 Driver/Receiver w/ Shutdown* ***NEW!***	20-SSOP	6.24	4.16	3.01
MAX242CPN+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	18-Dip	5.52	3.68	2.66

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX242CWN+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	18-SOIC	5.52	3.68	2.66
MAX242EPN+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	18-Dip	6.60	4.40	3.19
MAX242EWN+-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	18-SOIC	6.60	4.40	3.19
MAX243CPE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-Dip	6.24	4.16	3.01
MAX243CSE+-ND	+5V Multichannel RS-232 Driver/Receiver*	16-SOIC	6.24	4.16	3.01
MAX243CWE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	6.24	4.16	3.01
MAX243EPE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-Dip	7.47	4.98	3.61
MAX243ESE+-ND	+5V Multichannel RS-232 Driver/Receiver* ***NEW!***	16-SOIC	7.47	4.98	3.61
MAX248EQH-D-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	44-PLCC	26.37	19.90	11.70
MAX248EQH+D-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	44-PLCC	29.85	19.90	14.42
MAX249CQH+D-ND	+5V Multichannel RS-232 Driver/Receiver w/ Shutdown*	44-PLCC	22.95	15.30	11.09
MAX250CPD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-Dip	8.67	5.78	4.19
MAX250CSD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-SOIC	9.54	6.36	4.61
MAX250EPD+-ND	+5V Isolated RS-232 Driver/Receiver* ***NEW!***	14-Dip	12.39	8.26	5.98
MAX250ESD-ND	+5V Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	7.95
MAX250ESD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-SOIC	13.62	9.08	6.58
MAX251CPD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-Dip	8.67	5.78	4.19
MAX251CSD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-SOIC	9.54	6.36	4.61
MAX251EPD+-ND	+5V Isolated RS-232 Driver/Receiver*	14-Dip	12.39	8.26	5.98
MAX251ESD+-ND	+5V Isolated RS-232 Driver/Receiver* ***NEW!***	14-SOIC	13.62	9.08	6.58
MAX253CPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	3.18	2.12	1.53
MAX253CSA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	3.18	2.12	1.53
MAX253CUA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-μMAX	3.48	2.32	1.68
MAX253EPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	4.50	3.00	2.17
MAX253ESA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	4.14	2.76	2.00
MAX256ASA+-ND	3W Primary Side Controller/Half-Bridge Driver*	8-SOIC	7.08	4.72	3.42
MAX481CPA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-Dip	3.12	2.08	1.50
MAX481CSA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-SOIC	3.12	2.08	1.50
MAX481ECPA+-ND	Low Power, RS-485/RS-422 Transceiver, ESD Prot.*	8-Dip	3.87	2.58	1.87
MAX481ECSA+-ND	Low Power, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	3.87	2.58	1.87
MAX481EEPA+-ND	Low Power, RS-485/RS-422 Transceiver, ESD Prot.* ***NEW!***	8-Dip	6.09	4.06	2.94
MAX481EESA+-ND	Low Power, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	6.09	4.06	2.94
MAX481EPA+-ND	Low Power, RS-485/RS-422 Transceiver* ***NEW!***	8-Dip	3.90	2.60	1.88
MAX481ESA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-SOIC	3.90	2.60	1.88
MAX483CPA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-Dip	3.12	2.08	1.50
MAX483CSA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.12	2.08	1.50
MAX483CUA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.12	2.08	1.50
MAX483ECPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-Dip	3.87	2.58	1.87
MAX483ECSA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	3.87	2.58	1.87
MAX483EEPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr, ESD Prot.* ***NEW!***	8-Dip	5.58	3.72	2.69
MAX483EESA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	5.58	3.72	2.69
MAX483EPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transceiver* ***NEW!***	8-Dip	3.90	2.60	1.88
MAX483ESA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transceiver*	8-SOIC	3.90	2.60	1.88
MAX485CPA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-Dip	3.12	2.08	1.50
MAX485CSA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-SOIC	3.12	2.08	1.50
MAX485CUA+-ND	Low Power, RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.12	2.08	1.50
MAX485ECPA+-ND	Low Power, RS-485/RS-422 Transcvr., ESD Protected*	8-Dip	3.87	2.58	1.87
MAX485ECSA+-ND	Low Power, RS-485/RS-422 Transcvr., ESD Protected*	8-SOIC	3.87	2.58	1.87
MAX485EEPA+-ND	Low Power, RS-485/RS-422 Transcvr., ESD Prot.* ***NEW!***	8-Dip	5.58	3.72	2.69
MAX485EESA+-ND	Low Power, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	5.58	3.72	2.69
MAX485EPA+-ND	Low Power, RS-485/RS-422 Transceiver*	8-Dip	3.90	2.60	1.88
MAX485ESA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.90	2.60	1.88
MAX487CPA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-Dip	3.18	2.12	1.53
MAX487CSA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.18	2.12	1.53
MAX487CUA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.18	2.12	1.53
MAX487ECPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-Dip	3.87	2.58	1.87
MAX487ECSA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	3.87	2.58	1.87
MAX487EEPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-Dip	5.58	3.72	2.69
MAX487EESA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	5.58	3.72	2.69
MAX487EPA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-Dip	3.99	2.66	1.92
MAX487ESA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.99	2.66	1.92
MAX488CPA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-Dip	3.18	2.12	1.53
MAX488CSA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.18	2.12	1.53
MAX488CUA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.48	2.32	1.68
MAX488ECPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-Dip	3.87	2.58	1.87
MAX488ECSA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	3.87	2.58	1.87
MAX488EEPA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.* ***NEW!***	8-Dip	5.58	3.72	2.69
MAX488EESA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transcvr., ESD Prot.*	8-SOIC	5.58	3.72	2.69
MAX488EPA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-Dip	3.99	2.66	1.92
MAX488ESA+-ND	Slew-Rate-Limited, RS-485/RS-422 Transceiver*	8-SOIC	3.99	2.66	1.92
MAX489CPD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable*	14-Dip	3.18	2.12	1.53
MAX489CSD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable*	14-SOIC	3.18	2.12	1.53
MAX489ECPD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable, ESD Protected*	14-Dip	3.87	2.58	1.87
MAX489ECSD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable, ESD Protected*	14-SOIC	3.87	2.58	1.87
MAX489EEPD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable, ESD Protected* ***NEW!***	14-Dip	5.58	3.72	2.69
MAX489EESD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable, ESD Protected*	14-SOIC	5.58	3.72	2.69
MAX489EPD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable*	14-Dip	3.99	2.66	1.92
MAX489ESD+-ND	Slew-Rate-Ltd., RS-485/RS-422 TxRx w/ Drive Enable*	14-SOIC	3.99	2.66	1.92
MAX490CPA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-Dip	3.18	2.12	1.53
MAX490CSA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-SOIC	3.18	2.12	1.53
MAX490CUA+-ND	Slew-Rate-Ltd., RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.18	2.12	1.53
MAX490ECPA+-ND	RS-485/RS-422 Transceiver w/ Full Duplex, ESD Prot.*	8-Dip	3.87	2.58	1.87
MAX490ECSA+-ND	RS-485/RS-422 Transceiver w/ Full Duplex, ESD Prot.*	8-SOIC	3.87	2.58	1.87
MAX490EEPA+-ND	RS-485/RS-422 Transceiver w/ Full Duplex, ESD Prot.* ***NEW!***	8-Dip	5.58	3.72	2.70
MAX490EESA+-ND	RS-485/RS-422 Transceiver w/ Full Duplex, ESD Prot.*	8-SOIC	5.58	3.72	2.69

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX490EPA+-ND	RS-485/RS-422 Transceiver with Full Duplex* ***NEW!***	8-Dip	3.99	2.66	1.92
MAX490ESA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-SOIC	3.99	2.66	1.92
MAX491CPD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-Dip	3.18	2.12	1.53
MAX491CSD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-SOIC	3.18	2.12	1.53
MAX491ECPD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.* ***NEW!***	14-Dip	3.87	2.58	1.87
MAX491ECSD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.*	14-SOIC	3.87	2.58	1.87
MAX491EEPD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.* ***NEW!***	14-Dip	5.58	3.72	2.69
MAX491EESD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.*	14-SOIC	5.58	3.72	2.69
MAX491EPD+-ND	RS-485/RS-422 Transceiver, Low Power* ***NEW!***	14-Dip	3.99	2.66	1.92
MAX491ESD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-SOIC	3.99	2.66	1.92
MAX560CAI+-ND	3.3V Transceiver with Receivers Active in Shutdown*	28-SSOP	9.81	6.54	4.74
MAX560CWI+-ND	3.3V Transceiver w/ Receivers Active in Shutdown* ***NEW!***	28-SOIC	9.33	6.22	4.50
MAX561CAI+-ND	3.3V Transceiver w/ Receivers Active in Shutdown* ***NEW!***	28-SSOP	9.81	6.54	4.74
MAX562CAI+-ND	2.7V~5.25V, 230Kbps Serial Interface*	28-SSOP	8.85	5.90	4.27
MAX562CWI+-ND	2.7V~5.25V, 230Kbps Serial Interface* ***NEW!***	28-SOIC	8.13	5.42	3.92
MAX562EAI+-ND	2.7V~5.25V, 230Kbps Serial Interface* ***NEW!***	28-SSOP	12.66	8.44	6.11
MAX562EWI+-ND	2.7V~5.25V, 230Kbps Serial Interface* ***NEW!***	28-SOIC	12.66	8.44	6.11
MAX563CWN+-ND	3.3V, EIA/TIA-562 Dual Transceiver*	18-SOIC	6.24	4.16	3.01
MAX1406CAE+-ND	RS-232 Transceiver, ESD-Protected* ***NEW!***	16-SSOP	3.48	2.32	1.68
MAX1406EAE+-ND	RS-232 Transceiver, ESD-Protected* ***NEW!***	16-SSOP	4.98	3.32	2.40
MAX1406EPE+-ND	RS-232 Transceiver, ESD-Protected* ***NEW!***	16-Dip	4.98	3.32	2.40
MAX1406EWE+-ND	RS-232 Transceiver, ESD-Protected* ***NEW!***	16-SOIC	4.98	3.32	2.40
MAX1480ACPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	29.64	19.76	14.32
MAX1480AEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	20.37	17.25	15.68
MAX1480BCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	28.32	18.88	13.68
MAX1480BEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	19.94	16.89	15.33
MAX1480CCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	29.64	19.76	14.32
MAX1480EACPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	28.68	19.12	13.86
MAX1480EAEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	24.80	21.01	17.50
MAX1480ECCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	28.68	19.12	13.86
MAX1480ECEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	24.80	21.01	17.50
MAX1481CUB+-ND	Full Duplex, Slew Rate Ltd, LP RS-422 Transceiver*	10-μMAX	3.12	2.08	1.50
MAX1481EUB+-ND	Full Duplex, Slew Rate Ltd, LP RS-422 Transceiver*	10-μMAX	3.87	2.58	1.87
MAX1482CPD+-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver*	14-Dip	3.18	2.12	1.53
MAX1482CSD+-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver*	14-SOIC	3.18	2.12	1.53
MAX1482EPD+-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver* ***NEW!***	14-PDip	3.99	2.66	1.92
MAX1482ESD+-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver*	14-SOIC	3.99	2.66	1.92
MAX1483CPA+-ND	Half Duplex, Slew-Rate Ltd, RS485 Transceiver*	8-Dip	3.18	2.12	1.53
MAX1483CSA+-ND	Half Duplex, Slew-Rate Ltd, RS485 Transceiver*	8-SOIC	3.18	2.12	1.53
MAX1483CUA+-ND	Half Duplex, Slew Rate Ltd, LP RS-485 Transceiver* ***NEW!***	8-μMAX	3.18	2.12	1.53
MAX1483EPA+-ND	Half Duplex, Slew Rate Ltd, LP RS-485 Transceiver* ***NEW!***	8-PDip	3.99	2.66	1.92
MAX1483ESA+-ND	Half Duplex, Slew-Rate Ltd, RS485 Transceiver*	8-SOIC	3.99	2.66	1.92
MAX1484CUB+-ND	Full Duplex, LP RS-422/RS-485 Transceiver* ***NEW!***	10-μMAX	3.12	2.08	1.50
MAX1484EUB+-ND	Full Duplex, LP RS-422/RS-485 Transceiver*	10-μMAX	3.87	2.58	1.87
MAX1485CUB+-ND	Half/Full Duplex, Slew-Rate Ltd, RS-422/RS-485 Transcvr.* ***NEW!***	10-μMAX	3.12	2.08	1.50
MAX1485EUB+-ND	Half/Full Duplex, Slew-Rate Ltd, RS-422/RS-485 Transcvr.* ***NEW!***	10-μMAX	3.87	2.58	1.87
MAX1486CUB+-ND	Half/Full Duplex, RS-422/RS-485 Transceiver* ***NEW!***	10-μMAX	3.12	2.08	1.50
MAX1486EUB+-ND	Half/Full Duplex, RS-422/RS-485 Transceiver*	10-μMAX	3.87	2.58	1.87
MAX1487CPA+-ND	2.5Mbps RS-485/RS-422 Transceiver*	8-Dip	3.18	2.12	1.53
MAX1487CSA+-ND	2.5Mbps RS-485/RS-422 Transceiver*	8-SOIC	3.18	2.12	1.53
MAX1487CUA+-ND	2.5Mbps RS-485/RS-422 Transceiver* ***NEW!***	8-μMAX	3.18	2.12	1.53
MAX1487ECPA+-ND	2.5Mbps RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	3.87	2.58	1.87
MAX1487ECSA+-ND	2.5Mbps RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.87	2.58	1.87
MAX1487EEPA+-ND	2.5Mbps RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	5.58	3.72	2.69
MAX1487EESA+-ND	2.5Mbps RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	5.58	3.72	2.69
MAX1487EPA+-ND	2.5Mbps RS-485/RS-422 Transceiver* ***NEW!***	8-Dip	3.99	2.66	1.92
MAX1487ESA+-ND	2.5Mbps RS-485/RS-422 Transceiver* ***NEW!***	8-SOIC	3.99	2.66	1.92
MAX1488ECPD+-ND	RS-232 Quad Line Driver, ESD Protected* ***NEW!***	14-Dip	2.46	1.64	1.18
MAX1488ECSD+-ND	RS-232 Quad Line Driver, ESD Protected*	14-SOIC	2.46	1.64	1.18
MAX1488EEPD+-ND	RS-232 Quad Line Driver, ESD Protected*	14-Dip	3.51	2.34	1.69
MAX1488EESD+-ND	RS-232 Quad Line Driver, ESD Protected* ***NEW!***	14-SOIC	3.51	2.34	1.69
MAX1489ECPD+-ND	Quad, LP RS-232 Line Rcvr., ESD Protected* ***NEW!***	14-Dip	2.46	1.64	1.18
MAX1489ECSD+-ND	Quad, LP RS-232 Line Rcvr., ESD Protected*	14-SOIC	2.46	1.64	1.18
MAX1489EEPD+-ND	Quad, LP RS-232 Line Rcvr., ESD Protected* ***NEW!***	14-Dip	3.51	2.34	1.69
MAX1489EESD+-ND	Quad, LP RS-232 Line Rcvr., ESD Protected*	14-SOIC	3.51	2.34	1.69
MAX1490ACPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	29.64	19.76	14.32
MAX1490AEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	20.37	17.25	15.68
MAX1490BCPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	28.32	18.88	13.68
MAX1490BEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	19.94	16.89	15.34
MAX1490EACPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	28.68	19.12	13.86
MAX1490EAEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	24.80	21.01	17.50
MAX1490EBCPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	28.68	19.12	13.86
MAX1490EBEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	24.80	21.01	17.50
MAX3030ECSE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.04	1.36	.98
MAX3030ECUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3030EESE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.55	1.70	1.23
MAX3030EEUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.55	1.70	1.23
MAX3031ECSE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.04	1.36	.98
MAX3031ECUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3031EESE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.55	1.70	1.23
MAX3031EEUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.55	1.70	1.23
MAX3032ECSE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.04	1.36	.98
MAX3032ECUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3032EESE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.55	1.70	1.23
MAX3032EEUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected*	16-TSSOP	2.55	1.70	1.23
MAX3033ECSE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.04	1.36	.98
MAX3033ECUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3033EESE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-SOIC	2.55	1.70	1.23
MAX3033EEUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected* ***NEW!***	16-TSSOP	2.55	1.70	1.23
MAX3040CSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3040CUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	2.91	1.94	1.40

*** RoHS Compliant***

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX3040ESE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3040EWE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3041CSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3041CUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	2.91	1.94	1.40
MAX3041ESE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3041EUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	4.14	2.76	2.00
MAX3042BCSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3042BCUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Protected*	16-TSSOP	2.91	1.94	1.40
MAX3042BESE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3042BEUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	4.14	2.76	2.00
MAX3043CSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3043EUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	4.14	2.76	2.00
MAX3044CSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3044ESE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3044EUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	4.14	2.76	2.00
MAX3045BCSE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	2.91	1.94	1.40
MAX3045BCUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	2.91	1.94	1.40
MAX3045BESE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-SOIC	4.14	2.76	2.00
MAX3045BEUE+-ND	5V Quad RS-485/RS-422 Transmitter, ESD Prot.* ***NEW!***	16-TSSOP	4.14	2.76	2.00
MAX3050ASA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	4.20	2.80	2.03
MAX3051ESA+-ND	1Mbps Low Supply Current CAN Transceiver* ***NEW!***	8-SOIC	2.49	1.66	1.20
MAX3053ESA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	4.20	2.80	2.03
MAX3054ASD+-ND	±80V Fault-Protected CAN Transceiver* ***NEW!***	14-SOIC	4.20	2.80	2.03
MAX3055ASD+-ND	±80V Fault-Protected CAN Transceiver* ***NEW!***	14-SOIC	4.20	2.80	2.03
MAX3056ASD+-ND	±80V Fault-Protected CAN Transceiver* ***NEW!***	14-SOIC	4.20	2.80	2.03
MAX3057ASA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	4.20	2.80	2.03
MAX3058ASA+-ND	5V, 1Mbps, Low Supply Current CAN Transceiver* ***NEW!***	8-SOIC	1.65	1.10	.79
MAX3059ASA+-ND	5V, 1Mbps, Low Supply Current CAN Transceiver*	8-SOIC	1.80	1.20	.87
MAX3070EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	6.09	4.06	2.94
MAX3070EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	6.09	4.06	2.94
MAX3070EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.86	3.24	2.34
MAX3070EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.86	3.24	2.34
MAX3071EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	6.09	4.06	2.94
MAX3071EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3071EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3071EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3072EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	6.09	4.06	2.94
MAX3072EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3072EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3072EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3073EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	6.09	4.06	2.94
MAX3073EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	6.09	4.06	2.94
MAX3073EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.86	3.24	2.34
MAX3073EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.86	3.24	2.34
MAX3074EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	6.09	4.06	2.94
MAX3074EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3074EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3074EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3075EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	6.09	4.06	2.94
MAX3075EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3075EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3075EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3076EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	6.09	4.06	2.94
MAX3076EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	6.09	4.06	2.94
MAX3076EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.86	3.24	2.34
MAX3076EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.86	3.24	2.34
MAX3077EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	6.09	4.06	2.94
MAX3077EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3077EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3077EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3078EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	6.09	4.06	2.94
MAX3078EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.86	3.24	2.34
MAX3078EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.86	3.24	2.34
MAX3079EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	6.09	4.06	2.94
MAX3079EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.86	3.24	2.34
MAX3079EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.86	3.24	2.34
MAX3080CPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	14-Dip	3.39	2.26	1.63
MAX3080CSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	3.39	2.26	1.63
MAX3080ECPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-Dip	3.48	2.32	1.68
MAX3080ECSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	14-SOIC	3.48	2.32	1.68
MAX3080EESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	14-SOIC	4.35	2.90	2.10
MAX3080EPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	14-Dip	4.23	2.82	2.04
MAX3080ESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	4.23	2.82	2.04
MAX3081CPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	3.39	2.26	1.63
MAX3081CSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	3.39	2.26	1.63
MAX3081ECPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-Dip	3.48	2.32	1.68
MAX3081ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	3.48	2.32	1.68
MAX3081EEPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-Dip	4.35	2.90	2.10
MAX3081EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	4.35	2.90	2.10
MAX3081ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX3082CPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	8-Dip	3.39	2.26	1.63
MAX3082CSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	8-SOIC	3.39	2.26	1.63
MAX3082ECPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	3.48	2.32	1.68
MAX3082ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	3.48	2.32	1.68
MAX3082EEPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	4.35	2.90	2.10
MAX3082EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	4.35	2.90	2.10
MAX3082EPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	4.23	2.82	2.04
MAX3082ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	8-SOIC	4.23	2.82	2.04
MAX3083CSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	3.39	2.26	1.63
MAX3083ECSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	14-SOIC	3.48	2.32	1.68
MAX3083EESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX3083ESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	14-SOIC	4.23	2.82	2.04
MAX3084CSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	3.39	2.26	1.63
MAX3084ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	3.48	2.32	1.68
MAX3084EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	4.35	2.90	2.10
MAX3084ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX3085CPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	3.39	2.26	1.63
MAX3085CSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	3.39	2.26	1.63
MAX3085ECPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-Dip	3.48	2.32	1.68
MAX3085ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	3.48	2.32	1.68
MAX3085EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	4.35	2.90	2.10
MAX3085EPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	4.23	2.82	2.04
MAX3085ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX3086CPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	14-Dip	3.39	2.26	1.63
MAX3086CSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	3.39	2.26	1.63
MAX3086ECSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-SOIC	3.48	2.32	1.68
MAX3086EESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-SOIC	4.35	2.90	2.10
MAX3086ESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	4.26	2.84	2.05
MAX3087CPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	3.39	2.26	1.63
MAX3087CSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	3.39	2.26	1.63
MAX3087ECPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-Dip	3.48	2.32	1.68
MAX3087ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	3.48	2.32	1.68
MAX3087EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	4.35	2.90	2.10
MAX3087ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	4.23	2.82	2.04
MAX3088CPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	8-Dip	3.39	2.26	1.63
MAX3088CSA+TCT-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	8-SOIC	3.18	2.40	2.10
MAX3088ECPA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-Dip	3.48	2.32	1.68
MAX3088ECSA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	8-SOIC	3.48	2.32	1.68
MAX3088EESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	8-SOIC	4.35	2.90	2.10
MAX3088ESA+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	8-SOIC	4.23	2.82	2.04
MAX3089CPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx* ***NEW!***	14-Dip	3.39	2.26	1.63
MAX3089CSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx*	14-SOIC	3.39	2.26	1.63
MAX3089ECPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-Dip	3.48	2.32	1.68
MAX3089ECSD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	14-SOIC	3.48	2.32	1.68
MAX3089EEPD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.* ***NEW!***	14-Dip	4.35	2.90	2.10
MAX3089EESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	14-SOIC	4.35	2.90	2.10
MAX3089ESD+-ND	10Mbps, Slew-Rate Ltd. RS-485/RS-422 TxRx, ESD Prot.*	14-SOIC	4.23	2.82	2.04
MAX3093ECSE+-ND	10Mbps, 5V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-SOIC	3.42	2.28	1.65
MAX3093ECUE+-ND	10Mbps, 5V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-TSSOP	3.42	2.28	1.65
MAX3093EESE+-ND	10Mbps, 5V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-SOIC	4.86	3.24	2.34
MAX3093EEUE+-ND	10Mbps, 5V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-TSSOP	4.86	3.24	2.34
MAX3094ECSE+-ND	10Mbps, 3V Quad RS-422/RS-485 Receiver*	16-SOIC	3.42	2.28	1.65
MAX3094ECUE+-ND	10Mbps, 3V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-TSSOP	3.42	2.28	1.65
MAX3094EESE+-ND	10Mbps, 3V Quad RS-422/RS-485 Rcvr., ESD Prot.*	16-SOIC	4.86	3.24	2.34
MAX3094EEUE+-ND	10Mbps, 3V Quad RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-TSSOP	4.86	3.24	2.34
MAX3095CEE+-ND	10Mbps, 5V Quad RS-422/RS-485 Receiver, ESD Prot.* ***NEW!***	16-QSOP	3.42	2.28	1.65
MAX3095CPE+-ND	10Mbps, 5V Quad RS-422/RS-485 Receiver, ESD Prot.*	16-Dip	3.42	2.28	1.65
MAX3095CSE+-ND	10Mbps, 5V Quad RS-422/RS-485 Receiver, ESD Prot.*	16-SOIC	3.42	2.28	1.65
MAX3095EEE+-ND	10Mbps, 5V Quad RS-422/RS-485 Receiver, ESD Prot.* ***NEW!***	16-QSOP	4.86	3.24	2.34
MAX3095EPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	4.29	3.24	1.91
MAX3095EPE+-ND	10Mbps, 5V Quad RS-422/RS-485 Receiver, ESD Prot.* ***NEW!***	16-Dip	4.86	3.24	2.34
MAX3095ESE+-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Prot.*	16-SOIC	4.86	3.24	2.34
MAX3096CEE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Prot.*	16-QSOP	3.42	2.28	1.65
MAX3096CSE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Prot.*	16-SOIC	3.42	2.28	1.65
MAX3097ECEE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.*	16-QSOP	9.90	6.60	4.78

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX3097ECSE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.*	16-SOIC	9.90	6.60	4.78
MAX3097EEEE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-QSOP	14.19	9.46	6.85
MAX3098EACEE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-QSOP	13.23	8.82	6.39
MAX3098EACSE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-SOIC	13.23	8.82	6.39
MAX3098EAESE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-SOIC	17.22	11.48	8.32
MAX3098EBCEE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.*	16-QSOP	9.90	6.60	4.78
MAX3098EBCSE+-ND	32Mbps, 3V~5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.* ***NEW!***	16-SOIC	9.90	6.60	4.78
MAX3100CEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	7.92	5.28	3.82
MAX3100CPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	7.92	5.28	3.82
MAX3100EEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	11.31	7.54	5.46
MAX3100EPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	11.31	7.54	5.46
MAX3110ECNI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-Dip	13.14	8.76	6.35
MAX3110ECWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	13.14	8.76	6.35
MAX3110EENI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver* ***NEW!***	28-Dip	18.81	12.54	9.09
MAX3110EEWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver* ***NEW!***	28-SOIC	18.81	12.54	9.09
MAX3111ECNI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver* ***NEW!***	28-Dip	13.14	8.76	6.35
MAX3111ECWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	13.14	8.76	6.35
MAX3111EEWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	18.81	12.54	9.09
MAX3120ESA+-ND	3V~5.5V Low Profile, IrDA Infrared Transceiver* ***NEW!***	8-SOIC	7.14	4.76	3.45
MAX3120EUA+-ND	3V~5.5V Low Profile, IrDA Infrared Transceiver* ***NEW!***	8-µMAX	7.14	4.76	3.45
MAX3130CAI+-ND	3V~5.5V RS-232 / IrDA Infrared Transceiver* ***NEW!***	28-SSOP	12.63	8.42	6.10
MAX3130EAI+-ND	3V~5.5V RS-232 / IrDA Infrared Transceiver* ***NEW!***	28-SSOP	18.03	12.02	8.71
MAX3140CEI+-ND	SPI/Microwire-Compatible UART with Integrated True Fail-Safe RS-485/RS-422 Transceiver*	28-QSOP	11.31	7.54	5.46
MAX3157CAI+-ND	High CMRR RS-485 Transceiver with ±50V Isolation*	28-SSOP	3.84	—	—
MAX3160CAP+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	20-SSOP	15.30	10.20	7.39
MAX3160EAP+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	20-SSOP	21.84	14.56	10.55
MAX3160ECAP+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx, ESD Protected* ***NEW!***	20-SSOP	16.53	11.02	7.98
MAX3160EEAP+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx, ESD Protected*	20-SSOP	22.89	15.26	11.06
MAX3161CAG+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	24-SSOP	15.30	10.20	7.39
MAX3161EAG+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	24-SSOP	21.84	14.56	10.55
MAX3161ECAG+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx, ESD Protected* ***NEW!***	24-SSOP	16.53	11.02	7.98
MAX3162CAI+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	28-SSOP	15.30	10.20	7.39
MAX3162EAI+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx*	28-SSOP	21.84	14.56	10.55
MAX3162ECAI+-ND	+3V ~ +5.5V, RS-232/RS-485/RS-422 Multiprotocol TxRx, ESD Protected* ***NEW!***	28-SSOP	16.53	11.02	7.98
MAX3170CAI+-ND	+3.3V, Multiprotocol Three Transceiver Three Receiver Selectable Clock/Data Transceiver*	28-SSOP	18.87	12.58	9.12
MAX3185CAP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SSOP	3.18	2.12	1.53
MAX3185CWP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SOIC	3.18	2.12	1.53
MAX3185EAP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SSOP	4.56	3.04	2.20
MAX3186CAP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SSOP	3.48	2.32	1.68
MAX3186CWP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SOIC	3.48	2.32	1.68
MAX3186EAP+-ND	230kbps RS-232 Serial Port, ESD Protected* ***NEW!***	20-SSOP	4.98	3.32	2.40
MAX3187CAX+-ND	230kbps Dual RS-232 Serial Port, ESD Protected* ***NEW!***	36-SSOP	7.05	4.70	3.40
MAX3208EAUB+-ND	4-Ch. HS Diff. 4 I/O Port ESD Prot. Diode Array*	10-µMAX	1.53	1.02	.73
MAX3209ECUU+-ND	12V, Dual RS-232 Serial Port for Motherboards/Desktops, ESD Protected*	38-TSSOP	6.48	4.32	3.13
MAX3209EEUU+-ND	12V, Dual RS-232 Serial Port for Motherboards/Desktops, ESD Protected* ***NEW!***	38-TSSOP	8.43	5.62	4.07
MAX3212CAI+-ND	2.7V~3.6V True RS-232 Transcvr w/ AutoShutdown* ***NEW!***	28-SSOP	9.30	6.20	4.49
MAX3212EAI+-ND	2.7V~3.6V True RS-232 Transcvr w/ AutoShutdown* ***NEW!***	28-SSOP	13.29	8.86	6.42
MAX3218CAP+-ND	1.8V~4.25V RS-232 Transceiver with AutoShutdown*	20-SSOP	5.37	3.58	2.59
MAX3218CPP+-ND	1.8V~4.25V RS-232 Transceiver w/ AutoShutdown* ***NEW!***	20-Dip	5.37	3.58	2.59
MAX3218EAP+-ND	1.8V~4.25V RS-232 Transceiver w/ AutoShutdown* ***NEW!***	20-SSOP	7.65	5.10	3.69
MAX3221CAE+-ND	3V~5.5V RS-232 Transceiver with AutoShutdown*	16-SSOP	3.21	2.14	1.55
MAX3221CUE+-ND	3V~5.5V RS-232 Transceiver with AutoShutdown*	16-TSSOP	3.21	2.14	1.55
MAX3221EAE+-ND	3V~5.5V RS-232 Transceiver with AutoShutdown*	16-SSOP	4.59	3.06	2.21
MAX3221ECAE+-ND	3V~5.5V RS-232 Transcvr. w/ AutoShutdown, ESD Prot.*	16-SSOP	3.69	2.46	1.78
MAX3221ECTE+-ND	3V~5.5V RS-232 Transcvr. w/ AutoShutdown, ESD Prot.* ***NEW!***	16-TQFN	3.27	2.18	1.58
MAX3221ECUE+-ND	3V~5.5V RS-232 Transcvr. w/ AutoShutdown, ESD Prot.* ***NEW!***	16-TSSOP	3.27	2.18	1.58
MAX3221EEAE+-ND	3V~5.5V RS-232 Transcvr. w/ AutoShutdown, ESD Prot.*	16-SSOP	5.28	3.52	2.55
MAX3221EETE+-ND	3V~5.5V RS-232 Transcvr. w/ AutoShutdown, ESD Prot.* ***NEW!***	16-TQFN	3.84	2.56	1.85
MAX3221EEUE+-ND	3V~5.5V RS-232 Transcvr. w/AutoShutdown, ESD Prot.* ***NEW!***	16-TSSOP	3.84	2.56	1.85
MAX3221EUE+-ND	3V~5.5V RS-232 Transceiver w/AutoShutdown*	16-TSSOP	4.59	3.06	2.21
MAX3222CPN+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	18-Dip	4.74	3.16	2.29
MAX3222CAP+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	20-SSOP	4.74	3.16	2.29
MAX3222CUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	20-TSSOP	4.71	3.14	2.27
MAX3222CWN+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	18-SOIC	4.74	3.16	2.29
MAX3222EAP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot. *	20-SSOP	6.12	4.08	2.95
MAX3222ECAP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-SSOP	5.70	3.80	2.75
MAX3222ECPN+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	18-Dip	5.70	3.80	2.75
MAX3222ECTP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	20-TQFN	3.99	2.66	1.92
MAX3222ECUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-TSSOP	5.79	3.86	2.79
MAX3222ECWN+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	18-SOIC	5.70	3.80	2.75
MAX3222EEAP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-SSOP	8.16	5.44	3.94
MAX3222EEPN+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	18-Dip	8.16	5.44	3.94
MAX3222EETP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	20-TQFN	4.56	3.04	2.20
MAX3222EEUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-TSSOP	7.53	5.02	3.63
MAX3222EEWN+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	18-SOIC	8.16	5.44	3.94
MAX3222EPN+-ND	3V~5.5V Low Power, True RS-232 Transceiver* ***NEW!***	18-Dip	6.12	4.08	2.95
MAX3222EUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	20-TSSOP	6.12	4.08	2.95
MAX3222EWN+-ND	3V~5.5V Low Power, True RS-232 Transceiver* ***NEW!***	18-SOIC	6.12	4.08	2.95
MAX3223CAP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown*	20-SSOP	4.74	3.16	2.29
MAX3223CPP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown* ***NEW!***	20-Dip	4.74	3.16	2.29
MAX3223CUP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown*	20-TSSOP	4.71	3.14	2.27
MAX3223EAP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown*	20-SSOP	6.12	4.08	2.95
MAX3223ECAP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.*	20-SSOP	5.70	3.80	2.75
MAX3223EPP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown* ***NEW!***	20-Dip	6.12	4.08	2.95
MAX3223ECTP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.* ***NEW!***	20-TQFN	3.99	2.66	1.92
MAX3223ECUP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.*	20-TSSOP	5.79	3.86	2.79
MAX3223EEAP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.*	20-SSOP	8.16	5.44	3.94
MAX3223EEPP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.*	20-Dip	8.16	5.44	3.94
MAX3223EETP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.* ***NEW!***	20-TQFN	4.56	3.04	2.20
MAX3223EEUP+-ND	3V~5.5V, RS-232 Transceiver w/ AutoShutdown, ESD Prot.*	20-TSSOP	7.53	5.02	3.63
MAX3223EUP+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown*	20-TSSOP	6.12	4.08	2.95
MAX3224CAP+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	20-SSOP	4.74	3.16	2.29
MAX3224CUP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-TSSOP	4.71	3.14	2.27
MAX3224EAP+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	20-SSOP	6.75	4.50	3.26
MAX3224ECAP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	20-SSOP	5.70	3.80	2.75
MAX3224ECPP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-Dip	5.70	3.80	2.75
MAX3224ECUP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TSSOP	5.79	3.86	2.79
MAX3224EEAP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	20-SSOP	8.16	5.44	3.94
MAX3224EETP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TQFN	4.56	3.04	2.20
MAX3224EEUP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TSSOP	7.53	5.02	3.63
MAX3224ETP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-TQFN	4.23	2.82	2.04
MAX3224EUP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-TSSOP	6.12	4.08	2.95
MAX3225CAP+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	20-SSOP	4.74	3.16	2.29
MAX3225CUP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-TSSOP	4.71	3.14	2.27
MAX3225EAP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-SSOP	6.75	4.50	3.26
MAX3225ECAP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	20-SSOP	5.70	3.80	2.75
MAX3225ECTP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TQFN	3.99	2.66	1.92
MAX3225ECUP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TSSOP	5.79	3.86	2.79
MAX3225EEAP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	20-SSOP	8.16	5.44	3.94
MAX3225EETP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	20-TQFN	4.56	3.04	2.20
MAX3225EEUP+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	20-TSSOP	7.53	5.02	3.63
MAX3225EUP+-ND	3V~5.5V, RS-232 TxRx with AutoShutdown Plus* ***NEW!***	20-TSSOP	6.12	4.08	2.95
MAX3226CAE+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	16-SSOP	3.21	2.14	1.55
MAX3226EAE+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	16-SSOP	4.59	3.06	2.21
MAX3226ECAE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	16-SSOP	3.69	2.46	1.78
MAX3226ECTE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TQFN	3.27	2.18	1.58
MAX3226ECUE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TSSOP	3.27	2.18	1.58
MAX3226EEAE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	16-SSOP	5.28	3.52	2.55
MAX3226EETE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TQFN	3.84	2.56	1.85
MAX3226EEUE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TSSOP	3.84	2.56	1.85
MAX3227CAE+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	16-SSOP	3.21	2.14	1.55
MAX3227EAE+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown Plus*	16-SSOP	4.59	3.06	2.21
MAX3227ECAE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	16-SSOP	3.69	2.46	1.78
MAX3227ECTE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TQFN	3.27	2.18	1.58
MAX3227ECUE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TSSOP	3.27	2.18	1.58
MAX3227EEAE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.*	16-SSOP	5.28	3.52	2.55
MAX3227EETE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TQFN	3.84	2.56	1.85
MAX3227EEUE+-ND	3V~5.5V, RS-232 TxRx w/ AutoShutdown Plus, ESD Prot.* ***NEW!***	16-TSSOP	3.84	2.56	1.85
MAX3232CAE+-ND	3V~5.5V Low Power, True RS-232 Transceiver* ***NEW!***	16-SSOP	4.74	3.16	2.29
MAX3232CPE+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	16-Dip	4.74	3.16	2.29
MAX3232CSE+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	16-SOIC	4.74	3.16	2.29
MAX3232CUE+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	16-TSSOP	4.71	3.14	2.27
MAX3232CWE+-ND	3V~5.5V Low Power, True RS-232 Transceiver*	16-SOIC	4.74	3.16	2.29
MAX3232ECAE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SSOP	5.70	3.80	2.75
MAX3232ECPE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-Dip	5.70	3.80	2.75
MAX3232ECTE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-TQFN	3.90	2.60	1.88
MAX3232ECUE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-TSSOP	3.90	2.60	1.97
MAX3232ECUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-TSSOP	5.79	3.86	2.79
MAX3232ECWE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SOIC	5.70	3.80	2.75
MAX3232EEPE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-Dip	8.16	5.44	3.94
MAX3232EETE+-ND	3V~5.5V LP, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-TQFN	4.47	2.98	2.16
MAX3232EEAE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SSOP	8.16	5.44	3.94
MAX3232EEUE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-TSSOP	4.47	2.98	2.16
MAX3232EEUP+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	20-TSSOP	7.53	5.02	3.63
MAX3232EEWE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SOIC	8.16	5.44	3.94
MAX3232EPE+-ND	3V~5.5V Low Power, True RS-232 Transceiver* ***NEW!***	16-Dip	6.12	4.08	2.95
MAX3232ESE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SOIC	6.12	4.08	2.95
MAX3232EUE+-ND	3V~5.5V Low Power, True RS-232 Transceiver, ESD Prot.*	16-SSOP	6.12	4.08	2.95
MAX3232EWE+-ND	3V~5.5V Low Power, True RS-232 Transceiver* ***NEW!***	16-SOIC	6.12	4.08	2.95
MAX3233ECWP+G36-ND	3V~3.6V, 250Kbps, Dual RS-232 Transceiver, ESD Prot.*	20-SOIC	9.96	6.64	4.81
MAX3233EEWP+G36-ND	3V~3.6V, 250Kbps, Dual RS-232 Transceiver, ESD Prot.*	20-SOIC	13.83	9.22	6.68
MAX3235ECPP+G36-ND	4.5V~5.5V, 250Kbps, Dual RS-232 TxRx, ESD Prot.* ***NEW!***	20-Dip	8.11	6.12	3.83
MAX3235ECWP+G36-ND	4.5V~5.5V, 250Kbps, Dual RS-232 Transcvr, ESD Prot.*	20-SOIC	9.18	6.12	4.43
MAX3235EEWP+G36-ND	4.5V~5.5V, 250Kbps, Dual RS-232 Transcvr, ESD Prot.*	20-SOIC	12.72	8.48	6.14
MAX3237CAI+-ND	3V~5.5V, True RS-232 Transceiver*	28-SSOP	8.52	5.68	4.11
MAX3237EAI+-ND	3V~5.5V, True RS-232 Transceiver*	28-SSOP	12.18	8.12	5.88
MAX3237ECAI+-ND	3V~5.5V, True RS-232 Transceiver, ESD Protected*	28-SSOP	9.90	6.60	4.78
MAX3237EEAI+-ND	3V~5.5V, True RS-232 Transceiver, ESD Protected*	28-SSOP	13.56	9.04	6.55
MAX3238CAI+-ND	3V~5.5V, 250Kbps True RS-232 Transceiver with Auto Shutdown Plus*	28-SSOP	8.52	5.68	4.11
MAX3238EAI+-ND	3V~5.5V, 250Kbps True RS-232 Transceiver with Auto Shutdown Plus*	28-SSOP	12.18	8.12	5.88
MAX3238ECAI+-ND	3V~5.5V, 250Kbps True RS-232 Transceiver, ESD Prot.*	28-SSOP	9.90	6.60	4.78
MAX3238EEAI+-ND	3V~5.5V, 250kbps RS-232 Transcvr, ESD Prot.*	28-SSOP	13.56	9.04	6.55
MAX3241CAI+-ND	3V~5.5V, Low Power True RS-232 Transceiver*	28-SSOP	8.52	5.68	4.11
MAX3241CUI+-ND	3V~5.5V, Low Power True RS-232 Transceiver*	28-TSSOP	8.67	5.78	4.19
MAX3241CWI+-ND	3V~5.5V, Low Power True RS-232 Transceiver*	28-SOIC	8.52	5.68	4.11

* ***RoHS Compliant***

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3241EAI+-ND	3V~5.5V, Low Power True RS-232 Transceiver*	28-SSOP	12.18	8.12	5.88
MAX3241ECAI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Protected*	28-SSOP	9.90	6.60	4.78
MAX3241ECTJ+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Prot.* ***NEW!***	23-TQFN	10.80	7.20	5.22
MAX3241ECUI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Prot.* ***NEW!***	28-TSSOP	9.90	6.60	4.78
MAX3241ECWI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Prot.* ***NEW!***	28-SOIC	9.90	6.60	4.78
MAX3241EEAI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Protected*	28-SSOP	13.56	9.04	6.55
MAX3241EEWI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Prot.* ***NEW!***	28-SOIC	13.56	9.04	6.55
MAX3241EEUI+-ND	3V~5.5V, LP True RS-232 Transceiver, ESD Protected*	28-TSSOP	13.56	9.04	6.55
MAX3241EUI+-ND	3V~5.5V, Low Power True RS-232 Transceiver* ***NEW!***	28-TSSOP	12.48	8.32	6.03
MAX3241EWI+-ND	3V~5.5V, Low Power True RS-232 Transceiver* ***NEW!***	28-SOIC	12.18	8.12	5.88
MAX3243CAI+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown*	28-SSOP	8.52	5.68	4.11
MAX3243CUI+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown*	28-TSSOP	7.95	5.30	3.84
MAX3243CWI+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown* ***NEW!***	28-SOIC	8.52	5.68	4.11
MAX3243EAI+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown*	28-SSOP	12.18	8.12	5.88
MAX3243ECAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Protected*	28-SSOP	9.90	6.60	4.78
MAX3243ECUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Protected*	28-TSSOP	9.90	6.60	4.78
MAX3243ECWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Prot.* ***NEW!***	28-SOIC	9.90	6.60	4.78
MAX3243EEAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Protected*	28-SSOP	13.56	9.04	6.55
MAX3243EEUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Prot.* ***NEW!***	28-TSSOP	13.56	9.04	6.55
MAX3243EEWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Prot.* ***NEW!***	28-SOIC	13.56	9.04	6.55
MAX3243EUI+-ND	3V~5.5V, RS-232 Transceiver w/AutoShutdown*	28-TSSOP	12.48	8.32	6.03
MAX3243EWI+-ND	3V~5.5V, RS-232 Transceiver with AutoShutdown* ***NEW!***	28-SOIC	12.18	8.12	5.88
MAX3244CAI+-ND	3V~5.5V, RS-232 TxRx with Auto Shutdown Plus* ***NEW!***	28-SSOP	8.52	5.68	4.11
MAX3244EAI+-ND	3V~5.5V, RS-232 TxRx with Auto Shutdown Plus* ***NEW!***	28-SSOP	12.18	8.12	5.88
MAX3244ECAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.*	28-SSOP	9.90	6.60	4.78
MAX3244ECUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-TSSOP	9.90	6.60	4.78
MAX3244ECWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-SOIC	9.90	6.60	4.78
MAX3244ECWI-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Protected	28-SOIC	8.75	6.60	4.23
MAX3244EEAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown, ESD Protected*	28-SSOP	13.56	9.04	6.55
MAX3244EEUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-TSSOP	13.56	9.04	6.55
MAX3244EEWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-SOIC	13.56	9.04	6.55
MAX3245CAI+-ND	3V~5.5V, RS-232 TxRx with Auto Shutdown Plus*	28-SSOP	9.30	6.20	4.49
MAX3245CWI+-ND	3V~5.5V, RS-232 TxRx with Auto Shutdown Plus* ***NEW!***	28-SOIC	9.30	6.20	4.49
MAX3245EAI+-ND	3V~5.5V, RS-232 TxRx with Auto Shutdown Plus*	28-SSOP	13.29	8.86	6.42
MAX3245ECAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.*	28-SSOP	10.80	7.20	5.22
MAX3245ECTX+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	36-TQFN	10.80	7.20	5.22
MAX3245ECUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-TSSOP	9.90	6.60	4.78
MAX3245ECWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-SOIC	10.80	7.20	5.22
MAX3245EEAI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.*	28-SSOP	14.79	9.86	7.14
MAX3245EETX+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	36-TQFN	14.79	9.86	7.14
MAX3245EEUI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-TSSOP	13.56	9.04	6.55
MAX3245EEWI+-ND	3V~5.5V, RS-232 TxRx w/AutoShutdown Plus, ESD Prot.* ***NEW!***	28-SOIC	14.79	9.86	7.14
MAX3250CAI+-ND	3V~5.5V, 250kbps, RS-232 Transceiver*	28-SSOP	9.75	6.50	4.71
MAX3250EAI+-ND	3V~5.5V, 250kbps, RS-232 Transceiver*	28-SSOP	12.99	8.66	6.27
MAX3291CPD+-ND	5Mbps ~ 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-Dip	7.53	5.02	3.63
MAX3291CSD+-ND	5Mbps ~ 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	7.53	5.02	3.63
MAX3291EPD-ND	5Mbps ~ 10Mbps, RS-485/RS-422 Transceiver	14-Dip	9.51	7.18	4.22
MAX3291ESD+-ND	5Mbps ~ 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	10.77	7.18	5.20
MAX3292CPD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-Dip	7.53	5.02	3.63
MAX3292CSD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	7.53	5.02	3.63
MAX3292EPD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-Dip	10.77	7.18	5.20
MAX3292ESD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver*	14-SOIC	10.77	7.18	5.20
MAX3301EETJ+-ND	USB On-The-Go Transceiver/Charge Pump* ***NEW!***	32-TQFN	4.17	2.78	2.01
MAX3311CUB+-ND	460Kbps, 1µA RS-232 Transceiver*	10-µMAX	2.94	1.96	1.42
MAX3311ECUB+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected*	10-µMAX	3.30	2.20	1.59
MAX3311EEUB+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected*	10-µMAX	4.29	2.86	2.07
MAX3311EUB+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	10-µMAX	3.84	2.56	1.85
MAX3313CUB+-ND	460Kbps, 1µA RS-232 Transceiver*	10-µMAX	2.94	1.96	1.42
MAX3313ECUB+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected*	10-µMAX	3.30	2.20	1.59
MAX3313EEUB+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	10-µMAX	4.29	2.86	2.07
MAX3313EUB+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	10-µMAX	3.84	2.56	1.85
MAX3314ECSA+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	8-SOIC	3.30	2.20	1.59
MAX3314EESA+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	8-SOIC	4.29	2.86	2.07
MAX3314EEUA+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	8-µMAX	4.29	2.86	2.07
MAX3314ESA+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	8-SOIC	3.51	2.34	1.69
MAX3314EUA+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	8-µMAX	3.84	2.56	1.85
MAX3316CAE+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	16-SSOP	5.16	3.44	2.49
MAX3316EAE+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	16-SSOP	6.66	4.44	3.21
MAX3316ECAE+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	16-SSOP	6.21	4.14	3.00
MAX3316ECUP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	6.21	4.14	3.00
MAX3316EEAE+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	16-SSOP	8.88	5.92	4.29
MAX3317ECUP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	6.21	4.14	3.00
MAX3317EEAP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-SSOP	8.88	5.92	4.29
MAX3317EEUP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	8.88	5.92	4.29
MAX3318CUP+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	20-TSSOP	5.16	3.44	2.49
MAX3318ECUP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	6.21	4.14	3.00
MAX3318EEUP+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	8.88	5.92	4.29
MAX3319CAE+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	16-SSOP	3.51	2.34	1.69
MAX3319EAE+-ND	460Kbps, 1µA RS-232 Transceiver* ***NEW!***	16-SSOP	5.01	3.34	2.42
MAX3319ECAE+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected*	16-SSOP	6.21	4.14	3.00
MAX3319EEAE+-ND	460Kbps, 1µA RS-232 Transceiver, ESD Protected* ***NEW!***	16-SSOP	8.88	5.92	4.29
MAX3320ACAP+-ND	3V~5.5V, True RS-232 Transcvr. w/AutoShutdown* ***NEW!***	20-SSOP	5.16	3.44	2.49
MAX3320AEAP+-ND	3V~5.5V, True RS-232 Transcvr. w/AutoShutdown* ***NEW!***	20-SSOP	7.35	4.90	3.55
MAX3320BCAP+-ND	3V~5.5V, True RS-232 Transcvr. w/AutoShutdown* ***NEW!***	20-SSOP	5.16	3.44	2.49
MAX3320BEAP+-ND	3V~5.5V, True RS-232 Transcvr. w/AutoShutdown* ***NEW!***	20-SSOP	7.35	4.90	3.55
MAX3320TCAP+-ND	3V~5.5V, True RS-232 Transcvr. w/AutoShutdown* ***NEW!***	20-SSOP	5.16	3.44	2.49
MAX3320TEAP-ND	3V~5.5V, True RS-232 Transceiver with AutoShutdown	20-SSOP	6.49	4.90	2.94
MAX3320TEAP+-ND	3V~5.5V, True RS-232 Transceiver with AutoShutdown*	20-SSOP	7.35	4.90	3.55
MAX3322EEUP+-ND	3V~5.5V, RS-232 Transceiver for Multidrop Applications*	20-TSSOP	8.07	5.38	3.90
MAX3323EEPE+-ND	3V~5.5V, RS-232 TxRx for Multidrop Applications* ***NEW!***	16-Dip	5.76	3.84	2.78
MAX3323EEUE+-ND	3V~5.5V, RS-232 Transceiver for Multidrop Applications*	16-TSSOP	5.76	3.84	2.78
MAX3344EEUE+-ND	USB Transceiver, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3345EEUE+-ND	USB Transceiver, ESD Protected* ***NEW!***	16-TSSOP	2.04	1.36	.98
MAX3346EEUD+-ND	USB Transceiver, ESD Protected* ***NEW!***	14-TSSOP	2.04	1.36	.98
MAX3380ECUP+-ND	1µA, 460Kbps, RS-232 Transceiver*	20-TSSOP	7.11	4.74	3.43
MAX3380EEUP+-ND	1µA, 460Kbps, RS-232 Transceiver*	20-TSSOP	10.17	6.78	4.91

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3381ECUP+-ND	1µA, 250Kbps, RS-232 Transceiver, ESD Protected*	20-TSSOP	7.11	4.74	3.43
MAX3381EEUP+-ND	1µA, 250Kbps, RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	10.17	6.78	4.91
MAX3384ECWN+-ND	1µA, 250Kbps, RS-232 Transceiver, ESD Protected* ***NEW!***	18-SOIC	6.21	4.14	3.00
MAX3386ECUP+-ND	3V, 250Kbps, RS-232 Transceiver, ESD Protected*	20-TSSOP	6.45	4.30	3.11
MAX3386EEUP+-ND	3V, 250Kbps, RS-232 Transceiver, ESD Protected* ***NEW!***	20-TSSOP	7.92	5.28	3.82
MAX3387ECUG+-ND	3V, 250Kbps, RS-232 TxRx, Auto Shutdown, ESD Prot.*	24-TSSOP	8.31	5.54	4.01
MAX3387EEUG+-ND	3V, 250Kbps, RS-232 TxRx, Auto Shutdown, ESD Prot.*	24-TSSOP	9.90	6.60	4.78
MAX3388ECUG+-ND	2.5V, 460Kbps, RS-232 TxRx, ESD Protected* ***NEW!***	24-TSSOP	7.77	5.18	3.75
MAX3388EEUG+-ND	2.5V, 460Kbps, RS-232 TxRx, ESD Protected* ***NEW!***	24-TSSOP	11.13	7.42	5.37
MAX3420EECJ+-ND	USB Peripheral Controller with SPI Interface*	32-TQFP	9.12	6.08	4.40
MAX3420EETG+-ND	USB Peripheral Controller with SPI Interface*	24-TQFN	8.94	5.96	4.32
MAX3420EEVKIT-2+-ND	Evalution Kit for MAX3420E*	—	50.00	—	—
MAX3421EEHJ+-ND	USB Peripheral/Host Controller with SPI Interface*	32-TQFP	12.57	8.38	6.07
MAX3421EETJ+-ND	USB Peripheral/Host Controller with SPI Interface*	32-TQFP-EP	12.39	8.26	5.98
MAX3421EVKIT-1+-ND	Evaluation Kit for MAX3421E*	—	62.50	—	—
MAX3430CPA+-ND	80V Fault Protected RS-485 Transceiver*	8-Dip	6.27	4.18	3.03
MAX3430CSA+-ND	80V Fault Protected RS-485 Transceiver*	8-SOIC	6.27	4.18	3.03
MAX3430EPA+-ND	80V Fault Protected RS-485 Transceiver*	8-Dip	7.80	5.20	3.77
MAX3430ESA+-ND	80V Fault Protected RS-485 Transceiver*	8-SOIC	7.80	5.20	3.77
MAX3440EEPA+-ND	60V Fault Protected RS-485 Transceiver, ESD Protected*	8-Dip	6.12	4.08	2.95
MAX3440EESA+-ND	60V Fault Protected RS-485 Transceiver, ESD Protected*	8-SOIC	6.12	4.08	2.95
MAX3441EASA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-SOIC	7.65	5.10	3.69
MAX3441EESA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-SOIC	6.12	4.08	2.95
MAX3442EASA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-SOIC	7.65	5.10	3.69
MAX3442EEPA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-PDip	6.12	4.08	2.95
MAX3442EESA+-ND	60V Fault Protected RS-485 Transceiver, ESD Protected*	8-SOIC	6.12	4.08	2.95
MAX3443EASA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-SOIC	9.57	6.38	4.62
MAX3443ECSA+-ND	60V Fault Protected RS-485 Transceiver, ESD Protected*	8-SOIC	6.12	4.08	2.95
MAX3443EEPA+-ND	60V Fault Protected RS-485 Transceiver, ESD Prot.* ***NEW!***	8-PDip	7.65	5.10	3.69
MAX3443EESA+-ND	60V Fault Protected RS-485 Transceiver, ESD Protected*	8-SOIC	7.65	5.10	3.69
MAX3444EESA+-ND	60V Fault Protected J1708 Transceiver, ESD Protected*	8-SOIC	6.12	4.08	2.95
MAX3450EEUD+-ND	±15kV ESD Protected USB Transceiver* ***NEW!***	14-TSSOP	2.04	1.36	.98
MAX3451EEUD+-ND	±15kV ESD Protected USB Transceiver* ***NEW!***	14-TSSOP	2.04	1.36	.98
MAX3453EETE+-ND	±15kV ESD Protected USB Transceiver*	16-TQFN	2.04	1.36	.98
MAX3454EETE+-ND	±15kV ESD Protected USB Transceiver*	16-TQFN	2.04	1.36	.98
MAX3454EEUD+-ND	±15kV ESD Protected USB Transceiver*	14-TSSOP	2.04	1.36	.98
MAX3456EETE+-ND	±15kV ESD Protected USB Transceiver* ***NEW!***	16-TQFN	2.04	1.36	.98
MAX3460CSD+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	14-SOIC	7.18	5.42	3.48
MAX3460ESD+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	14-SOIC	10.26	7.74	4.97
MAX3461ESD+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	4.47	2.98	2.16
MAX3462CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3462ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	10.26	7.74	4.97
MAX3463CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3463ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	4.47	2.98	2.16
MAX3464CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3464ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	11.61	7.74	5.61
MAX3465CSD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	3.96	2.64	1.91
MAX3465ESD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	4.47	2.98	2.16
MAX3466CSD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	3.96	2.64	1.91
MAX3466ESD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	4.47	2.98	2.16
MAX3467CPA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-Dip	3.96	2.64	1.91
MAX3467CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.96	2.64	1.91
MAX3467EPA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-Dip	4.47	2.98	2.16
MAX3467ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	4.47	2.98	2.16
MAX3468CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.96	2.64	1.91
MAX3468ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	4.47	2.98	2.16
MAX3469CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.96	2.64	1.91
MAX3469ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	4.47	2.98	2.16
MAX3471CUA+-ND	1.6µA, RS-485/RS-422, Half-Duplex Diff. Transcvr*	8-µMAX	4.71	3.14	2.27
MAX3471EUA+-ND	1.6µA, RS-485/RS-422, Half-Duplex Differential Transcvr*	8-µMAX	5.88	3.92	2.84
MAX3480ACPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	23.03	19.51	17.72
MAX3480AEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	32.90	27.87	25.30
MAX3480BCPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	21.84	18.50	16.80
MAX3480EACPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	24.45	20.71	17.26
MAX3480EAEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	34.93	29.59	24.64
MAX3480EBCPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	23.26	19.70	16.41
MAX3480EBEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	33.23	28.15	23.44
MAX3483CPA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx* ***NEW!***	8-Dip	4.32	2.88	2.08
MAX3483CSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	4.32	2.88	2.08
MAX3483ECPA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	4.89	3.26	2.36
MAX3483ECSA+-ND	3.3V, 250Kbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	4.89	3.26	2.36
MAX3483EEPA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-Dip	6.18	4.12	2.98
MAX3483EESA+-ND	3.3V, 250Kbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	6.18	4.12	2.98
MAX3483ESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	5.40	3.60	2.61
MAX3485CPA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx* ***NEW!***	8-Dip	4.32	2.88	2.08
MAX3485CSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	4.32	2.88	2.08
MAX3485ECSA+-ND	3.3V, 12Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	4.89	3.26	2.36
MAX3485EESA+-ND	3.3V, 12Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	6.18	4.12	2.98
MAX3485ESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	5.40	3.60	2.61
MAX3486CSA+-ND	3.3V, 2.5Mbps, Slew Rate Ltd. True RS-485/422 TxRx*	8-SOIC	4.32	2.88	2.08
MAX3486ECSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected* ***NEW!***	8-SOIC	4.89	3.26	2.36
MAX3486EESA+-ND	3.3V, 12Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	6.18	4.12	2.98
MAX3486ESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	5.40	3.60	2.61
MAX3488CSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	4.32	2.88	2.08
MAX3488ECSA+-ND	3.3V, 250Kbps, Slew Rate Ltd. True RS-485/RS-422 TxRx* ***NEW!***	8-SOIC	4.89	3.26	2.36
MAX3488EESA+-ND	3.3V, 12Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	6.18	4.12	2.98
MAX3488ESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	8-SOIC	5.40	3.60	2.61
MAX3490CPA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx* ***NEW!***	8-Dip	4.32	2.88	2.08
MAX3491CPD+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx* ***NEW!***	14-Dip	4.32	2.88	2.08
MAX3490CSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/422 TxRx*	8-SOIC	4.32	2.88	2.08
MAX3490ESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/422 TxRx* ***NEW!***	8-SOIC	5.40	3.60	2.61
MAX3490ECSA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/422 TxRx*	8-SOIC	4.89	3.26	2.36

* RoHS Compliant

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(Continued)

MAXIM INNOVATION DELIVERED™ DigiReel® (Cont.) INTERFACE

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX3490EESA+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	8-SOIC	6.18	4.12	2.98
MAX3491CSD+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	14-SOIC	4.32	2.88	2.08
MAX3491ECSD+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	14-SOIC	4.89	3.26	2.36
MAX3491EESD+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx, ESD Protected*	14-SOIC	6.18	4.12	2.98
MAX3491ESD+-ND	3.3V, 10Mbps, Slew Rate Ltd. True RS-485/RS-422 TxRx*	14-SOIC	5.40	3.60	2.61
MAX3535EEWI+-ND	3V~5V, Isolated RS-485/RS-422 Transceiver, ESD Prot.*	28-SOIC	15.87	10.58	7.67
MAX3800UHJ+-ND	3.2Gbps Adaptive Equalizer / Cable Driver* ***NEW!***	32-TQFP	19.50	13.00	9.42
MAX3802UTK+D-ND	3.2Gbps Quad Adaptive Equalizer / Cable Driver* ***NEW!***	68-QFN	24.38	—	—
MAX3804ETE#G16-ND	12.5Gbps Settable Receive Equalizer* ***NEW!***	16-TQFN	13.28	—	—
MAX3982UTE+-ND	SFP Copper-Cable Preemphasis Driver* ***NEW!***	16-TQFN	16.14	10.76	7.80
MAX3983UGK+D-ND	Quad Copper-Cable Signal Conditioner	68-QFN	33.88	—	—
MAX3984UTE+-ND	1Gbps~10Gbps Premphasis Driver w/ Equalizer* ***NEW!***	16-TQFN	18.87	12.58	9.12
MAX4444ESE+-ND	Ultra HS, Differential-to-Single Ended Line Receiver* ***NEW!***	16-SOIC	5.52	3.68	2.66
MAX4445ESE+-ND	Ultra HS, Differential-to-Single Ended Line Receiver*	16-SOIC	5.52	3.68	2.66
MAX4447ESE+-ND	High Output Single Ended-to-Differential Line Driver*	16-SOIC	5.82	3.88	2.81
MAX4448ESE+-ND	High Output Single Ended-to-Differential Line Driver* ***NEW!***	16-SOIC	5.82	3.88	2.81
MAX4449ESE+-ND	High Output Single Ended-to-Differential Line Driver* ***NEW!***	16-SOIC	5.82	3.88	2.81
MAX4950CTO+-ND	Quad PCI Express Equalizer/Redriver* ***NEW!***	42-TQFN	21.00	14.00	10.15
MAX9111ESA+-ND	Single 300ps Pulse Skew LVDS Line Receiver* ***NEW!***	8-SOIC	4.32	2.88	2.08
MAX9112ESA+-ND	Dual 250ps Pulse Skew LVDS Line Driver* ***NEW!***	8-SOIC	7.44	4.96	3.59
MAX9121EUE+-ND	Quad 300ps Pulse Skew LVDS Line Receiver* ***NEW!***	16-TSSOP	5.01	3.78	2.74
MAX9124ESE+-ND	Quad 250ps Pulse Skew LVDS Line Driver* ***NEW!***	16-SOIC	5.67	3.78	2.74
MAX9125ESE+-ND	Quad 300ps Pulse Skew LVDS Line Receiver* ***NEW!***	16-SOIC	5.67	3.78	2.74
MAX9129EUE+-ND	Quad Bus LVDS Driver* ***NEW!***	16-TSSOP	8.94	5.96	4.32
MAX9157EHJ+-ND	Quad Bus LVDS Transceiver* ***NEW!***	32-TQFP	9.57	6.38	4.62
MAX9376EUB+-ND	LVDS/Anything-to-LVPECL/LVDS Dual Translator* ***NEW!***	10-µMAX	16.95	11.30	8.19
MAX13020ASA+-ND	±60V Fault-Protected LIN Transceiver* ***NEW!***	8-SOIC	1.92	1.28	.92
MAX13021ASA+-ND	±60V Fault-Protected LIN Transceiver* ***NEW!***	8-SOIC	1.98	1.32	.95
MAX13041ASD+-ND	±80V Fault-Protected High-Speed CAN Transceiver* ***NEW!***	14-SOIC	2.67	2.14	1.56
MAX13050ASA+-ND	±80V Fault-Protected High-Speed CAN Transceiver* ***NEW!***	8-SOIC	4.47	2.98	2.16
MAX13052ASA+-ND	±80V Fault-Protected High-Speed CAN Transceiver* ***NEW!***	8-SOIC	4.20	2.80	2.03
MAX13053ASA+-ND	±80V Fault-Protected High-Speed CAN Transceiver* ***NEW!***	8-SOIC	4.20	2.80	2.03
MAX13054ASA+-ND	±80V Fault-Protected High-Speed CAN Transceiver* ***NEW!***	8-SOIC	4.71	3.14	2.27
MAX13080EASD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.71	3.14	2.27
MAX13080ECSD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.29	2.86	2.07
MAX13080EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.53	3.02	2.18
MAX13081ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.66	2.44	1.76
MAX13082ECPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.57	2.38	1.72
MAX13082ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.51	2.34	1.69
MAX13082EEPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.84	2.56	1.85
MAX13082EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.78	2.52	1.82
MAX13083ECPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	4.35	2.90	2.10
MAX13083EEPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	4.59	3.06	2.21
MAX13083EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.53	3.02	2.18
MAX13085EASA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.96	2.64	1.91
MAX13085ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.51	2.34	1.69
MAX13085EEPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.84	2.56	1.85
MAX13085EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.78	2.52	1.82
MAX13086EEPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	4.59	3.06	2.21
MAX13086EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.53	3.02	2.18
MAX13087EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.90	2.60	1.88
MAX13088EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.78	2.52	1.82
MAX13089EASD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.65	3.10	2.24
MAX13234EEUP+-ND	RS-232 Transceiver with Low Voltage Interface* ***NEW!***	20-TSSOP	8.73	5.82	4.21
MAX13235EEUP+-ND	RS-232 Transceiver with Low Voltage Interface* ***NEW!***	20-TSSOP	8.73	5.82	4.21
MAX13236EETE+-ND	RS-232 Transceiver with Low Voltage Interface* ***NEW!***	16-TQFN	6.33	4.22	3.05
MAX13237EETE+-ND	RS-232 Transceiver with Low Voltage Interface* ***NEW!***	16-TQFN	6.33	4.22	3.05
MAX13410EESA+-ND	RS-485 Transceiver with LDO Regulator* ***NEW!***	8-SOIC	4.17	2.78	2.01
MAX13411EESA+-ND	RS-485 Transceiver with LDO Regulator* ***NEW!***	8-SOIC	4.17	2.78	2.01
MAX13412EESA+-ND	RS-485 Transceiver with LDO Regulator* ***NEW!***	8-SOIC	4.17	2.78	2.01
MAX13413EESA+-ND	RS-485 Transceiver with LDO Regulator* ***NEW!***	8-SOIC	4.17	2.78	2.01
MAX13430EEUB+-ND	RS-485 Transceiver with Low Volt. Logic Interface* ***NEW!***	10-µMAX	4.17	2.78	2.01
MAX13431EEUB+-ND	RS-485 Transceiver with Low Volt. Logic Interface* ***NEW!***	10-µMAX	4.17	2.78	2.01
MAX13432EESD+-ND	RS-485 Transceiver with Low Volt. Logic Interface* ***NEW!***	14-SOIC	4.17	2.78	2.01
MAX13433EESD+-ND	RS-485 Transceiver with Low Volt. Logic Interface* ***NEW!***	14-SOIC	4.17	2.78	2.01
MAX13442EASA+-ND	±80V RS-485 Fault-Protected, Fail-Safe Transceiver*	8-SOIC	6.12	4.08	2.95
MAX13443EASA+-ND	±80V RS-485 Fault-Protected, Fail-Safe Transceiver*	8-SOIC	6.12	4.08	2.95
MAX13444EASA+-ND	±80V J1708 Fault-Protected, Fail-Safe Transceiver* ***NEW!***	8-SOIC	6.12	4.08	2.95
MAX13448EESD+-ND	±80V RS-485 Fault-Protected Transceiver* ***NEW!***	14-SOIC	6.12	4.08	2.95
MAX13485EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.48	2.32	1.68
MAX13486EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.48	2.32	1.68
MAX13487EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.48	2.32	1.68
MAX13488EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.48	2.32	1.68
MXL1344ACAG+-ND	5V, Multiprotocol, Software-Selectable Cable Terminator*	24-SSOP	16.50	11.00	7.97
MXL1535ECWI+-ND	3V to 5V, RS-485/RS-422 Transceiver*	28-SOIC	12.75	8.50	6.16
MXL1535EEWI+-ND	3V to 5V, RS-485/RS-422 Transceiver* ***NEW!***	28-SOIC	13.77	9.18	6.65
MXL1543CAI+-ND	5V Multiprotocol, Software-Selectable Clock/Data Xcvr.*	28-SSOP	18.48	12.32	8.93
MXL1544CAI+-ND	5V Multiprotocol, Software-Selectable Control Transceiver*	28-SSOP	15.00	10.00	7.25

MAXIM INNOVATION DELIVERED™ DigiReel® POWER AND BATTERY MANAGEMENT

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX603CSA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	5.40	3.60	2.61
MAX603CPA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-Dip	4.92	3.28	2.37
MAX603ESA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	6.87	4.58	3.32
MAX604CSA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	5.40	3.60	2.61
MAX604CPA+-ND	Adjustable Low Dropout Regulator*	8-Dip	4.92	3.28	2.37
MAX604ESA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	6.87	4.58	3.32
MAX608ESA+-ND	5V or Adj. Low Volt. Step Up DC/DC Controller*	8-SOIC	5.79	3.86	2.79
MAX618EEE+-ND	28V, PWM Step-UP DC/DC Converter*	16-QSOP	9.69	6.46	4.68
MAX619CSA+-ND	Regulated 5V Charge-Pump DC/DC Converter*	8-SOIC	5.04	3.36	2.43
MAX619ESA+-ND	Regulated 5V Charge-Pump DC/DC Converter*	8-SOIC	6.81	4.54	3.29
MAX626CSA+-ND	Dual Inverting Power MOSFET Driver*	8-SOIC	4.38	2.92	2.11
MAX627CPA+-ND	Dual Non-Inverting Power MOSFET Driver*	8-Dip	4.71	3.14	2.27
MAX627CSA+-ND	Dual Non-Inverting Power MOSFET Driver*	8-SOIC	4.38	2.92	2.11
MAX629ESA+-ND	High Voltage, Boost or Inverting DC/DC Converter*	8-SOIC	8.34	5.56	4.03
MAX632ACPA+-ND	+12V/Ad. Output CMOS Step-Up Switching Regulator*	8-Dip	7.77	5.18	3.75
MAX632ACSA-ND	+12V/Adj. Output CMOS Step-Up Switching Regulator	8-SOIC	8.04	5.36	3.88
MAX632ACSA+-ND	+12V/Adj. Output CMOS Step-Up Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX634CPA+-ND	CMOS Micropower Inverting Switching Regulator*	8-Dip	7.38	4.92	3.56
MAX634CSA+-ND	CMOS Micropower Inverting Switching Regulator*	8-SOIC	8.13	5.42	3.92
MAX635ACPA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	7.77	5.18	3.75

MAXIM INNOVATION DELIVERED™ DigiReel® (Cont.) POWER AND BATTERY MANAGEMENT

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX635ACSA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX636ACPA+-ND	-12V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	7.77	5.18	3.75
MAX636ACSA+-ND	-12V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX637ACPA+-ND	-15V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	7.77	5.18	3.75
MAX637ACSA+-ND	-15V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX638ACPA+-ND	5V Adj. Output CMOS Step-Down Switching Regulator*	8-Dip	7.77	5.18	3.75
MAX638ACSA+-ND	5V Adj. Output CMOS Step-Down Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX639CPA+-ND	5.0V or Adj. High Eff. Step-Down DC/DC Converter*	8-Dip	8.04	5.36	3.88
MAX639CSA+-ND	5.0V or Adj. High Eff. Step-Down DC/DC Converter*	8-SOIC	8.67	5.78	4.19
MAX639ESA+-ND	5.0V or Adj. High Eff. Step-Down DC/DC Converter*	8-SOIC	11.55	7.70	5.58
MAX640ESA+-ND	3.3V or Adj. High Eff. Step-Down DC/DC Converter*	8-SOIC	8.61	5.74	4.16
MAX641ACSA+-ND	Fixed Output 10W CMOS Step-Up Switching Regulator*	8-SOIC	8.04	5.36	3.88
MAX641AESA+-ND	Fixed Output 10W CMOS Step-Up Switching Regulator*	8-SOIC	12.51	8.34	6.04
MAX660CPA+-ND	100mA CMOS Monolithic Voltage Converter*	8-Dip	7.86	5.24	3.79
MAX660CSA+-ND	100mA CMOS Monolithic Voltage Converter*	8-SOIC	8.25	5.50	3.98
MAX660EPA+-ND	100mA CMOS Monolithic Voltage Converter*	8-Dip	10.23	6.82	4.94
MAX660ESA+-ND	100mA CMOS Monolithic Voltage Converter*	8-SOIC	10.74	7.16	5.19
MAX662ACPA+-ND	12V Supply for Flash Memory*	8-Dip	5.43	3.62	2.62
MAX662ACSA+-ND	12V Supply for Flash Memory*	8-SOIC	5.55	3.70	2.68
MAX662AESA+-ND	12V Supply for Flash Memory*	8-SOIC	7.68	5.12	3.71
MAX663CPA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-Dip	4.77	3.18	2.30
MAX663CSA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	5.25	3.50	2.53
MAX663ESA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	7.80	5.20	3.77
MAX664CSA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	6.39	4.26	3.08
MAX664ESA+-ND	Dual Mode™ 5V/Prog. Micropower Volt. Regulator*	8-SOIC	8.37	5.58	4.04
MAX665CPA+-ND	CMOS +8V/Switched-Capacitor Voltage Converter*	8-Dip	11.25	7.50	5.43
MAX666CPA+-ND	CMOS +5V/Adj. Voltage Reg. with Low Battery Detector*	8-Dip	5.52	3.68	2.66
MAX666CSA+-ND	CMOS +5V/Adj. Voltage Reg. with Low Battery Detector*	8-SOIC	6.06	4.04	2.92
MAX666ESA+-ND	CMOS +5V/Adj. Voltage Reg. with Low Battery Detector*	8-SOIC	9.42	6.28	4.55
MAX667CPA+-ND	+5V/Adj., Programmable Low Dropout Voltage Reg.*	8-Dip	6.21	4.14	3.00
MAX667CSA+-ND	+5V/Adj., Programmable Low Dropout Voltage Reg.*	8-SOIC	6.48	4.32	3.13
MAX667EPA+-ND	+5V/Adj., Programmable Low Dropout Voltage Reg.*	8-Dip	8.07	5.38	3.90
MAX667ESA+-ND	+5V/Adj., Programmable Low Dropout Voltage Reg.*	8-SOIC	8.37	5.58	4.04
MAX668EUB+-ND	1.8V to 28V Input, PWM Step-Up Controller*	10-µMAX	6.15	4.10	2.97
MAX669EUB+-ND	1.8V to 28V Input, PWM Step-Up Controller*	10-µMAX	6.15	4.10	2.97
MAX680CPA+-ND	+5V to ±10V Voltage Converter*	8-Dip	5.07	3.38	2.45
MAX680CSA+-ND	+5V to ±10V Voltage Converter*	8-SOIC	5.55	3.70	2.68
MAX680EPA+-ND	+5V to ±10V Voltage Converter*	8-Dip	6.96	4.64	3.36
MAX680ESA+-ND	+5V to ±10V Voltage Converter*	8-SOIC	7.68	5.12	3.71
MAX682ESA+-ND	2.7V to 5V Output Charge Pump*	8-SOIC	7.65	5.10	3.69
MAX685EEE+-ND	Dual Output DC/DC Converter*	16-QSOP	10.08	6.72	4.87
MAX686EEE+-ND	DAC Controlled Boost/Inverter LCD Bias Supply*	16-QSOP	8.37	5.58	4.04
MAX710ESE+-ND	3.3V or 5V Output Step Up/Down DC/DC Converter*	16-SOIC	8.61	5.74	4.16
MAX712CPE+-ND	Battery Fast Charge Controller for NIMH*	16-Dip	8.73	5.82	4.21
MAX712CSE+-ND	Battery Fast Charge Controller for NIMH*	16-SOIC	9.15	6.10	4.42
MAX712ESE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-SOIC	12.00	8.00	5.80
MAX713CPE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-Dip	8.73	5.82	4.21
MAX713CSE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-SOIC	9.15	6.10	4.42
MAX713ESE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-SOIC	12.00	8.00	5.80
MAX730ACSA+-ND	5V, Step Down, Current Mode PWM DC/DC Converter*	8-SOIC	6.30	4.20	3.04
MAX732CWE+-ND	+12V Step-Up Curr. Mode PWM Reg. for Flash Memory*	16-SOIC	7.74	5.16	3.74
MAX734CPA+-ND	+12V, 120mA Supply for Flash Memory*	8-Dip	5.67	3.78	2.74
MAX734CSA+-ND	+12V, 120mA Supply for Flash Memory*	8-SOIC	6.27	4.18	3.03
MAX735CSA+-ND	-5.0V/Adj. Neg. Output Inverting, Curr. Mode PWM Reg.*	8-SOIC	5.79	3.86	2.79
MAX738ACPA+-ND	5V, Step-Down, PWM, DC/DC Converter*	8-Dip	7.26	4.84	3.50
MAX738ACWE+-ND	5V, Step-Down, PWM, DC/DC Converter*	16-SOIC	7.59	5.06	3.66
MAX738AEWE+-ND	5V, Step-Down, PWM, DC/DC Converter*	16-SOIC	10.59	7.06	5.11
MAX743CPE+-ND	Dual Output, Switch-Mode Regulator*	16-Dip	12.72	8.48	6.14
MAX743CWE+-ND	Dual Output, Switch-Mode Regulator*	16-SOIC	13.50	9.00	6.52
MAX743EWE+-ND	Dual Output, Switch-Mode Regulator*	16-SOIC	16.77	11.18	8.10
MAX745EAP+-ND	Switch-Mode Lithium-Ion Battery Charger*	20-SSOP	13.14	8.76	6.35
MAX749CPA+-ND	Digitally Adjustable LCD Bias Supply*	8-Dip	7.35	4.90	3.55
MAX749CSA+-ND	Digitally Adjustable LCD Bias Supply*	8-SOIC	7.65	5.10	3.69
MAX749ESA+-ND	Digitally Adjustable LCD Bias Supply*	8-SOIC	10.23	6.82	4.94
MAX750ACSA+-ND	Adjustable Step-Down Current Mode PWM Regulator*	8-SOIC	6.30	4.20	3.04
MAX751CPA+-ND	+5V Step-Up Current Mode PWM DC/DC Converter*	8-Dip	6.24	4.16	3.01
MAX756CPA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-Dip	5.43	3.62	2.62
MAX756CSA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-SOIC	6.09	4.06	2.94
MAX756ESA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-SOIC	7.92	5.28	3.82
MAX757CSA+-ND	Adjustable Output, Step-Up DC/DC Converter*	8-SOIC	6.09	4.06	2.94
MAX758ACPA+-ND	Adjustable Step-Down Current Mode PWM Regulator*	8-Dip	7.26	4.84	3.50
MAX764CSA+-ND	–5V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	6.90	4.60	3.33
MAX764ESA+-ND	–5V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	9.96	6.64	4.81
MAX765CPA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-Dip	6.78	4.52	3.27
MAX765CSA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-SOIC	6.90	4.60	3.33
MAX765ESA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-SOIC	9.96	6.64	4.81
MAX766CPA+-ND	–15V DC/DC Inverter*	8-Dip	6.78	4.52	3.27
MAX766CSA+-ND	–15V DC/DC Inverter*	8-SOIC	6.90	4.60	3.33
MAX766ESA+-ND	–12V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	9.96	6.64	4.81
MAX767CAP+-ND	5V to 3.3V Sync. Step-Down Power-Supply Controller*	20-SSOP	10.05	6.70	4.85
MAX770CSA+-ND	5V or Adj., High-Eff., Low IQ, Step-Up DC/DC Converter*	8-SOIC	5.49	3.66	2.65
MAX771ESA+-ND	12V or Adj., High-Eff., Low IQ, Step-Up DC/DC Ctrlr.*	8-SOIC	7.53	5.02	3.63
MAX774CSA+-ND	–5V or Adj., High-Eff., Low IQ, Inverting DC/DC Ctrlr.*	8-SOIC	6.39	4.26	3.08
MAX774ESA+-ND	–5V or Adj., High-Eff., Low IQ, Inverting DC/DC Ctrlr.*	8-SOIC	9.36	6.24	4.52
MAX797CSE+-ND	3.3V/5V or Adj., Step-Down Controller*	16-SOIC	10.65	7.10	5.14
MAX797ESE+-ND	3.3V/5V or Adj., Step-Down Controller*	16-SOIC	14.40	9.60	6.96
MAX797HESE+-ND	3.3V/5V or Adj., Step-Down Controller*	16-SOIC	14.40	9.60	6.96
MAX845ESA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-SOIC	4.50	3.00	2.17
MAX845EUA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-µMAX	4.74	3.16	2.29
MAX846AEEE+-ND	Battery Charging System*	16-QSOP	9.06	6.04	4.37
MAX848ESE+-ND	High-Power, Low-Noise, Step-Up DC/DC Converter*	16-SOIC	7.20	4.80	3.48
MAX856CSA+-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter*	8-SOIC	4.68	3.12	2.26
MAX856ESA+-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter*	8-SOIC	6.45	4.30	3.11
MAX860ISA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-SOIC	4.23	2.82	2.04
MAX860ESA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-SOIC	5.91	3.94	2.85
MAX860IUA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-µMAX	4.68	3.12	2.26
MAX861ESA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-SOIC	5.91	3.94	2.85
MAX861ISA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-SOIC	4.23	2.82	2.04
MAX864EEE+-ND	Dual-Output Charge Pump*	16-QSOP	4.68	3.12	2.26
MAX865EUA+-ND	Compact, Dual-Output Charge Pump*	8-µMAX	4.08	2.72	1.97
MAX868EUB+-ND	Regulated, Adjustable -2x Inverting Charge Pump*	10-µMAX	5.10	3.40	2.46
MAX869LEEE+-ND	2A, Curr. Limited, High-Side P-Channel Switch* ***NEW!***	16-QSOP	6.09	4.06	2.94

** RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX881REUB+-ND	Low Noise Bias Supply*	10-µMAX	5.73	3.82	2.76
MAX882CSA+-ND	3.3V/Adj., 200mA Low Dropout Linear Regulator*	8-SOIC	4.65	3.10	2.24
MAX882ESA+-ND	3.3V/Adj., 200mA Low Dropout Linear Regulator*	8-SOIC	5.91	3.94	2.85
MAX883CSA+-ND	5V/Adj., LDO, Low IQ, 200mA Linear Regulator*	8-SOIC	4.65	3.10	2.24
MAX883ESA+-ND	5V/Adj., LDO, Low IQ, 200mA Linear Regulator*	8-SOIC	5.91	3.94	2.85
MAX884CSA+-ND	3.3V/Adj., LDO, Low IQ, 200mA Linear Reg.*	8-SOIC	4.65	3.10	2.24
MAX887HESA+-ND	Low Noise, Step-Down, PWM DC/DC Converter*	8-SOIC	7.20	4.80	3.48
MAX889RESA+-ND	0.5MHz, Regulated, 200mA, Inverting Charge Pump*	8-SOIC	6.63	4.42	3.20
MAX889SESA+-ND	1MHz, Regulated, 200mA, Inverting Charge Pump*	8-SOIC	6.63	4.42	3.20
MAX889TESA+-ND	2MHz, Regulated, 200mA, Inverting Charge Pump*	8-SOIC	6.63	4.42	3.20
MAX890LESA+-ND	1.2A, Current-Limited High-Side, P-Channel Switch with Thermal Shutdown*	8-SOIC	3.36	2.24	1.62
MAX891LEUA+-ND	Current-Limited High-Side, P-Channel Switch with Thermal Shutdown*	8-µMAX	3.87	2.58	1.87
MAX892LEUA+-ND	Curr.-Limited, High-Side P-Ch. Switch with Thermal SD*	8-µMAX	3.87	2.58	1.87
MAX893LESA+-ND	1.2A, Current-Limited High-Side, P-Channel Switch with Thermal Shutdown*	8-SOIC	2.49	1.66	1.20
MAX1586CETM+-ND	Power Management Ics for Microprocessors*	48-QFN	15.90	10.60	7.68
MAX1595EUA50+-ND	5.0V Step-Up/Step-Down Charge Pump*	8-µMAX	4.05	2.70	1.95
MAX1602EEE+-ND	Single-Channel CardBus and PCMCIA Power-Switching Network*	16-QSOP	6.54	4.36	3.16
MAX1606EUA+-ND	28V Step-Up DC-DC Converter*	8-µMAX	5.40	3.60	2.61
MAX1614EUA+-ND	High-Side, N-Channel MOSFET Switch Driver*	8-µMAX	4.83	3.22	2.33
MAX1615EUK+TCT-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	1.93	1.46	1.28
MAX1615EUK+TTR-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	2281.25/2,500		
MAX1616EUK+TCT-ND	High Voltage, Low Power Linear Regulator* ***NEW!***	SOT-23-5	1.93	1.46	1.28
MAX1616EUK+TTR-ND	High Voltage, Low Power Linear Regulator* ***NEW!***	SOT-23-5	2281.25/2,500		
MAX1620EEE+-ND	Digitally Adjustable LCD Bias Supply*	16-QSOP	5.52	3.68	2.66
MAX1623EAP+-ND	Sync. Rectification, Low Voltage, Step-Down Regulator*	20-SSOP	13.29	8.86	6.42
MAX1626ESA+-ND	3.3V/5V, High-Efficiency Step-Down DC/DC Controller*	8-SOIC	5.22	3.48	2.52
MAX1627ESA+-ND	Adj., High-Efficiency Step-Down DC/DC Controller*	8-SOIC	5.22	3.48	2.52
MAX1640EEE+-ND	Adj.-Output Switch Mode Current Source*	16-QSOP	8.04	5.36	3.88
MAX1644EAE+-ND	Sync. Rectification, Step-Down Regulator*	16-SSOP	11.34	7.56	5.48
MAX1649CSA+-ND	5V, High-Efficiency LDO Step-Down DC/DC Controller*	8-SOIC	5.61	3.74	2.71
MAX1649ESA+-ND	5V, High-Efficiency LDO Step-Down DC/DC Controller*	8-SOIC	7.05	4.70	3.40
MAX1653EEE+-ND	High-Efficiency, PWM Step-Down DC/DC Controller*	16-QSOP	10.80	7.20	5.22
MAX1653ESE+-ND	High-Efficiency, PWM Step-Down DC/DC Controller*	16-SOIC	10.80	7.20	5.22
MAX1655EEE+-ND	High-Efficiency, PWM Step-Down DC/DC Controller*	16-QSOP	10.80	7.20	5.22
MAX1655ESE+-ND	High Efficiency, PWM, Step-Down DC-DC Controller*	16-SOIC	10.80	7.20	5.22
MAX1658ESA+-ND	350mA, 16.5V Input, LDO Linear Regulator*	8-SOIC	5.73	3.82	2.76
MAX1659ESA+-ND	5V, 350mA, 16.5V Input, LDO Linear Regulator*	8-SOIC	5.73	3.82	2.76
MAX1672EEE+-ND	Step-Up/Down DC/DC Converter*	16-QSOP	7.74	5.16	3.74
MAX1673ESA+-ND	Reg. 125mA Output, Charge-Pump DC/DC Inverter*	8-SOIC	6.03	4.02	2.91
MAX1674EUA+-ND	Compact, High-Efficiency, Step-Up DC/DC Converter*	8-µMAX	5.73	3.82	2.76
MAX1675EUA+-ND	Step-Up DC/DC Converter*	8-µMAX	5.73	3.82	2.76
MAX1676EUB+-ND	Compact, High-Efficiency, Step-Up DC/DC Converter*	10-µMAX	6.15	4.10	2.97
MAX1677EEE+-ND	Compact, High-Eff. Step-UP DC/DC Conv.*	16-QSOP	10.41	6.94	5.03
MAX1678EUA+-ND	High-Efficiency Step-UP DC/DC Converter*	8-µMAX	4.80	3.20	2.32
MAX1680ESA+-ND	125mA, Switched-Capacitor Voltage Converter*	8-SOIC	6.03	4.02	2.91
MAX1681ESA+-ND	125mA, Switched-Capacitor Voltage Converter*	8-SOIC	6.03	4.02	2.91
MAX1684EEE+-ND	300kHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	9.69	6.46	4.68
MAX1685EEE+-ND	600kHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	9.69	6.46	4.68
MAX1692EUB+-ND	Step-Down Regulator*	10-µMAX	7.14	4.76	3.45
MAX1698EUB+-ND	High-Efficiency Step-UP Current Regulator*	10-MSOP	4.32	2.88	2.08
MAX1703ESE+-ND	1.5A Low-Noise Step-UP DC/DC Converter*	16-SOIC	12.09	8.06	5.84
MAX1705EEE+-ND	High Current, Low-Noise Step-Up DC/DC Conv.*	16-QSOP	9.72	6.48	4.69
MAX1706EEE+-ND	High Current, Low-Noise Step-Up DC/DC Conv.*	16-QSOP	9.12	6.08	4.40
MAX1708EEE+-ND	High-Freq., High Power, Step-Up DC/DC Conv.*	16-QSOP	10.80	7.20	5.22
MAX1709ESE+-ND	4A, Low-Noise, High-Freq. Step-Up DC/DC Converter*	16-SOIC	11.01	7.34	5.32
MAX1724EZK33+TCT-ND	3.3V, Step-Up DC/DC Converter*	TSOT-23-5	3.63	2.74	2.40
MAX1724EZK33+TTR-ND	3.3V, Step-Up DC/DC Converter*	TSOT-23-5	4281.25/2,500		
MAX1724EZK50+TCT-ND	5V, Step-Up DC/DC Converter*	TSOT-23-5	3.63	2.74	2.40
MAX1724EZK50+TTR-ND	5V, Step-Up DC/DC Converter*	TSOT-23-5	4281.25/2,500		
MAX1737EEI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger Controller*	28-QSOP	8.79	5.86	4.24
MAX1742EEE+-ND	1A, Step-Down Regulator*	16-QSOP	9.48	6.32	4.58
MAX1744EUB+-ND	High-Voltage, Step-Down DC/DC Controller*	10-µMAX	8.49	5.66	4.10
MAX1745EUB+-ND	High Voltage, Step-Down DC/DC Controller*	10-µMAX	8.49	5.66	4.10
MAX1748EUE+-ND	Triple-Output LCD DC/DC Converter*	16-TSSOP	8.52	5.68	4.11
MAX1758EAI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger with Internal 28V Switch*	28-SSOP	10.86	7.24	5.24
MAX1759EUB+-ND	Buck/Boost Regulating Charge Pump*	10-µMAX	7.17	4.78	3.46
MAX1760EUB+-ND	0.8A, Low-Noise, 1MHz, Step-Up DC/DC Converter*	10-µMAX	7.89	5.26	3.81
MAX1771CPA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Effic.*	8-Dip	5.04	3.36	2.43
MAX1771CSA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Effic.*	8-SOIC	5.52	3.68	2.66
MAX1771ESA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Effic.*	8-SOIC	7.53	5.02	3.63
MAX1772EEI+-ND	Multichemistry Battery-Charger Building Block*	28-QSOP	14.04	9.36	6.78
MAX1774EEI+-ND	Dual, High-Efficiency Step-Down Converter*	28-QSOP	12.39	8.26	5.98
MAX1775EEE+-ND	Dual Output Step-Down DC/DC Converter*	16-QSOP	9.42	6.28	4.55
MAX1776EUA+-ND	24V, Duty Cycle, Step-Down Converter*	8-µMAX	8.28	5.52	4.00
MAX1779EUE+-ND	Triple-Output LCD DC/DC Converter*	16-TSSOP	8.04	5.36	3.88
MAX1791EUB+-ND	High Efficiency, Step-Down Controller*	10-µMAX	6.42	4.28	3.10
MAX1792EUA15-ND	1.5V/Adj., 500mA LDO Linear Regulator	8-µMAX	3.60	2.40	1.74
MAX1792EUA15+-ND	1.5V/Adj., 500mA LDO Linear Regulator*	8-µMAX	3.60	2.40	1.74
MAX1792EUA18+-ND	1.8V/Adj., 500mA, LDO Linear Regulator*	8-µMAX	3.60	2.40	1.74
MAX1792EUA33+-ND	3.3V/Adj., 500mA, LDO Linear Regulator*	8-µMAX	3.60	2.40	1.74
MAX1793EUE25+-ND	2.5V/Adj., 1A, LDO Linear Regulator*	16-TSSOP-EP	4.68	3.12	2.26
MAX1793EUE33+-ND	3.3V/Adj., 1A, LDO Linear Regulator*	16-TSSOP-EP	4.68	3.12	2.26
MAX1795EUA+-ND	Low Supply Step-Up DC/DC Converter*	8-µMAX	10.08	6.72	4.87
MAX1796EUA+-ND	Low Supply Step-Up DC/DC Converter*	8-µMAX	10.56	7.04	5.10
MAX1797EUA+-ND	Low Supply Current, Step-Up DC/DC Converter*	8-µMAX	11.28	7.52	5.45
MAX1806EUA08+-ND	0.8V, 500mA, Low-Voltage Linear Regulator*	8-µMAX	3.96	2.64	1.91
MAX1806EUA33+-ND	3.3V, 500mA, Low-Voltage Linear Regulator*	8-µMAX	3.96	2.64	1.91
MAX1810ESA+-ND	Network Interface Card Smart Regulator* ***NEW!***	8-SOIC	3.96	2.64	1.91
MAX1811ESA+-ND	USB-Powered Li+ Charger*	8-SOIC	5.22	3.48	2.52
MAX1830EEE+-ND	3A, 1MHz, Low-Voltage Step-Down Regulator*	16-QSOP	12.78	8.52	6.17
MAX1831EEE-ND	3A, 1MHz, Low-Voltage Step-Down Regulator	16-QSOP	11.29	8.52	5.01
MAX1831EEE+-ND	3A, 1MHz, Low-Voltage Step-Down Regulator*	16-QSOP	12.78	8.52	6.17
MAX1840EUB+-ND	SIM/Smart Card Level Translators* ***NEW!***	10-µMAX	4.77	3.18	2.30
MAX1846EUB+-ND	High-Efficiency PWM Controller* ***NEW!***	10-µMAX	5.85	3.90	2.82
MAX1847EEE+-ND	High-Efficiency PWM Controller*	16-QSOP	6.54	4.36	3.16
MAX1857EUA47+-ND	4.75V/Adj., 500mA LDO Ripple-Rejecting Reg.*	8-µMAX	3.33	2.22	1.60
MAX1874ETE+-ND	Dual-Input, Single Cell Li+ Charger*	16-TQFN	5.85	3.90	2.82
MAX1931EUB+-ND	Current-Limited Switch for Single USB Port*	10-µMAX	2.46	1.64	1.18
MAX1932ETC+-ND	Digitally Controlled APD Bias Supply*	12-TQFN	9.57	6.38	4.62
MAX1945REUI+-ND	6A, Internal Switch Step-Down Regulator*	28-TSSOP-EP	13.20	8.80	6.38
MAX1953EUB+-ND	High-Freq., Curr.-Mode PWM Buck Controller*	10-µMAX	3.06	2.04	1.47

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX1968EUI+-ND	Power Driver for Peltier TEC Modules*	28-TSSOP-EP	23.13	15.42	11.17
MAX1978ETM+-ND	Integrated Temperature Controllers*	48-TQFN-EP	28.08	18.72	13.57
MAX1982EUT+TCT-ND	1.2V, 300mA Low Voltage LDO Linear Reg.* ***NEW!***	SOT-23-6	1.96	1.48	1.30
MAX1982EUT+TTR-ND	1.2V, 300mA Low Voltage LDO Linear Reg.* ***NEW!***	SOT-23-6	2312.50/2,500		
MAX1983EUT+TCT-ND	Adj., 300mA Low Voltage LDO Linear Regulator* ***NEW!***	SOT-23-6	1.96	1.48	1.30
MAX1983EUT+TTR-ND	Adj., 300mA Low Voltage LDO Linear Regulator* ***NEW!***	SOT-23-6	2312.50/2,500		
MAX4420CPA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting*	8-Dip	3.84	2.56	1.85
MAX4420CSA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting*	8-SOIC	4.50	3.00	2.17
MAX4420ESA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting*	8-SOIC	5.19	3.46	2.50
MAX4427CSA+-ND	Dual HS 1.5A MOSFET Driver, Non-Inverting*	8-SOIC	3.87	2.58	1.87
MAX4427ESA+-ND	Dual HS 1.5A MOSFET Driver, Non-Inverting*	8-SOIC	4.56	3.04	2.20
MAX4428ESA+-ND	Dual HS 1.5A MOSFET Driver, Inverting/Non-Inverting*	8-SOIC	4.56	3.04	2.20
MAX4429CPA+-ND	High-Speed 6A MOSFET Driver, Inverting*	8-Dip	3.84	2.56	1.85
MAX4820EUP+-ND	+3.3V/+5V, 8-Channel, Cascadable Relay Drvr with SPI*	20-TSSOP	4.17	2.78	2.01
MAX4821EUP+-ND	+3.3V/+5V, 8-Channel, Cascadable Relay Driver with Serial/Parallel Interface*	20-TSSOP	4.17	2.78	2.01
MAX5021EUT+TCT-ND	Current-Mode PWM Controller* ***NEW!***	SOT-23-6	6.63	5.00	4.38
MAX5021EUT+TTR-ND	Current-Mode PWM Controller* ***NEW!***	SOT-23-6	7812.50/2,500		
MAX5024LASA+-ND	Low Quiescent Current, High Voltage Linear Reg.*	8-SOIC-EP	3.45	2.30	1.66
MAX5025EUT+TCT-ND	36V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	6.63	5.00	4.38
MAX5025EUT+TTR-ND	36V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	7812.50/2,500		
MAX5026EUT+TCT-ND	36V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	6.63	5.00	4.38
MAX5026EUT+TTR-ND	36V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	7812.50/2,500		
MAX5027EUT+TCT-ND	30V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	6.63	5.00	4.38
MAX5027EUT+TTR-ND	30V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	7812.50/2,500		
MAX5028EUT+TCT-ND	30V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	6.63	5.00	4.38
MAX5028EUT+TTR-ND	30V PWM Step-Up DC/DC Converter* ***NEW!***	SOT-23-6	7812.50/2,500		
MAX5033BASA+-ND	76V, 500mA High Eff. Step Down DC/DC Conv.* ***NEW!***	8-SOIC	6.47	4.31	4.00
MAX5033DASA+-ND	76V, 500mA High Eff. Step Down DC/DC Conv.*	8-SOIC	6.24	4.16	3.83
MAX5035BASA+-ND	76V, 1A High Eff. Step Down DC/DC Converter*	8-SOIC	5.96	4.00	3.64
MAX5035CUSA+-ND	76V, 1A, High Efficiency Step-Down DC/DC Converter*	8-SOIC	6.42	4.28	3.97
MAX5035DASA+-ND	76V, 1A High Eff. Step Down DC/DC Converter*	8-SOIC	6.06	4.04	3.70
MAX5035DUSA+-ND	76V, 1A High Eff. Step Down DC/DC Converter*	8-SOIC	6.18	4.12	3.79
MAX5048AATT+TCT-ND	7.6A High Speed MOSFET Driver* ***NEW!***	6-TDFN	6.63	5.00	4.38
MAX5048AATT+TTR-ND	7.6A High Speed MOSFET Driver* ***NEW!***	6-TDFN	7812.50/2,500		
MAX5048BATT+TCT-ND	7.6A High Speed MOSFET Driver* ***NEW!***	6-TDFN	6.63	5.00	4.38
MAX5048BATT+TTR-ND	7.6A High Speed MOSFET Driver* ***NEW!***	6-TDFN	7812.50/2,500		
MAX5054AATA+TCT-ND	4A High Speed Dual MOSFET Driver* ***NEW!***	8-TDFN-EP	6.63	5.00	4.38
MAX5054AATA+TTR-ND	4A High Speed Dual MOSFET Driver* ***NEW!***	8-TDFN-EP	7812.50/2,500		
MAX5054BATA+TCT-ND	4A High Speed Dual MOSFET Driver* ***NEW!***	8-TDFN-EP	6.63	5.00	4.38
MAX5054BATA+TTR-ND	4A High Speed Dual MOSFET Driver* ***NEW!***	8-TDFN-EP	7812.50/2,500		
MAX5062AASA+-ND	125V, 2A, High-Speed, Half-Bridge MOSFET Driver*	8-SOIC	6.28	4.19	3.87
MAX5063AASA+-ND	125V, 2A, High-Speed, Half-Bridge MOSFET Driver*	8-SOIC	6.07	4.04	3.72
MAX5070AASA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-SOIC	5.00	4.00	3.50
MAX5070AAUA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-µMAX	10.00	8.43	—
MAX5070BASA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-SOIC	5.00	4.00	3.50
MAX5070BAUA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-µMAX	5.00	4.00	3.50
MAX5078AATT+TCT-ND	4A High Speed MOSFET Driver* ***NEW!***	6-TDFN-EP	6.63	5.00	4.38
MAX5078AATT+TTR-ND	4A High Speed MOSFET Driver* ***NEW!***	6-TDFN-EP	7812.50/2,500		
MAX5078BATT+TCT-ND	4A High Speed MOSFET Driver* ***NEW!***	6-TDFN-EP	6.63	5.00	4.38
MAX5078BATT+TTR-ND	4A High Speed MOSFET Driver* ***NEW!***	6-TDFN-EP	7812.50/2,500		
MAX5086BATE+-ND	65V, 250mA Linear Regulator with Adj. Reset Delay*	16-TQFN-EP	4.59	3.06	2.21
MAX5087BATE+-ND	65V, 400mA Linear Regulator with Adj. Reset Delay*	16-TQFN-EP	4.80	3.20	2.32
MAX5091AATA+TCT-ND	28V, 100mA LDO Linear Regulator with Reset* ***NEW!***	8-TDFN	1.99	1.50	1.32
MAX5091AATA+TTR-ND	28V, 100mA LDO Linear Regulator with Reset* ***NEW!***	8-TDFN	2343.75/2,500		
MAX5091BATA+TCT-ND	28V, 100mA LDO Linear Regulator with Reset* ***NEW!***	8-TDFN	1.99	1.50	1.32
MAX5091BATA+TTR-ND	28V, 100mA LDO Linear Regulator with Reset* ***NEW!***	8-TDFN	2343.75/2,500		
MAX5094AAUA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-µMAX	5.00	4.00	3.50
MAX5094BASA+-ND	High Perf. Single Ended, Current-Mode PWM Controller*	8-SOIC	5.00	4.00	3.50
MAX5922AEUI+-ND	48V, Single-Port Network Power Switch for Power-Over-LAN*	28-TSSOP	12.06	8.04	5.82
MAX6330TUR+TCT-ND	3.3V Precision Shunt Regulator* ***NEW!***	SOT-23-3	2.84	2.14	1.88
MAX6330TUR+TTR-ND	3.3V Precision Shunt Regulator* ***NEW!***	SOT-23-3	3343.75/2,500		
MAX6647MUA+-ND	+145°C Precision SMBus Compatible Remote/Local Sensor with Overtemperature Alarms*	8-µMAX	4.62	3.08	2.23
MAX6791TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	5062.50/2,500		
MAX6791TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6791TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	5062.50/2,500		
MAX6792TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6792TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	5062.50/2,500		
MAX6792TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6792TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	5062.50/2,500		
MAX6793TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6793TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4750.00/2,500		
MAX6793TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6793TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4750.00/2,500		
MAX6794TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6794TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4750.00/2,500		
MAX6794TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6794TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4750.00/2,500		
MAX6795TPSD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6795TPSD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	4031.25/2,500		
MAX6796TPLD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6796TPLD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	4031.25/2,500		
MAX6796TPSD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6796TPSD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	4031.25/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

POWER AND BATTERY MANAGEMENT

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX8505EEE+-ND	3A, 1MHz, Internal Switch Step-Down Reg.*	16-QSOP	6.48	4.32	3.13
MAX8515AEXK+TCT-ND	20mA, 0.6V Shunt Reg. for DC/DC Converter* **NEW!**	SC70-5	1.59	1.20	1.05
MAX8515AEXK+TTR-ND	20mA, 0.6V Shunt Reg. for DC/DC Converter* **NEW!**	SC70-5	1875.00/2,500		
MAX8515AEZK+TCT-ND	20mA, 0.6V Shunt Reg. for DC/DC Converter* **NEW!**	SOT-23-5	1.35	1.02	.90
MAX8515AEZK+TTR-ND	20mA, 0.6V Shunt Reg. for DC/DC Converter* **NEW!**	SOT-23-5	1593.75/2,500		
MAX8516EUB+-ND	1A, 0.2V Dropout LDO Regulator*	10-µMAX	3.36	2.24	1.62
MAX8521ETP+-ND	TEC Power Driver for Optical Modules*	20-TQFN	11.70	7.80	5.65
MAX8546EUB+-ND	Wide Input Range, Step Down Controller*	10-µMAX	2.85	1.90	1.37
MAX8552ETB+TCT-ND	High Speed Single Phase MOSFET Driver* **NEW!**	10-TDFN	2.04	1.54	1.35
MAX8552ETB+TTR-ND	High Speed Single Phase MOSFET Driver* **NEW!**	10-TDFN	2406.25/2,500		
MAX8556ETE+-ND	4A Ultra Low Input Voltage LDO Regulator*	16-TQFN	6.60	4.40	3.19
MAX8557ETE+-ND	4A Ultra Low Input Voltage LDO Regulator*	16-TQFN	6.60	4.40	3.19
MAX8581ETB+TCT-ND	2.5MHz Step-Down Converter*	10-TDFN-EP	3.92	2.96	2.59
MAX8581ETB+TTR-ND	2.5MHz Step-Down Converter*	10-TDFN-EP	4625.00/2,500		
MAX8582ETB+TCT-ND	1.5MHz Step-Down Converter*	10-TDFN-EP	3.92	2.96	2.59
MAX8582ETB+TTR-ND	1.5MHz Step-Down Converter*	10-TDFN-EP	4625.00/2,500		
MAX8660ETL+-ND	High-Efficiency, Low-IQ PMICs* **NEW!**	40-TQFN	12.75	8.50	6.16
MAX8860EUA33+-ND	3.3V/Adj., 300mA LDO Linear Regulator*	8-µMAX	2.70	1.80	1.30
MAX8662ETM+-ND	Power Management IC for Single-Cell, Li+ Battery Operated Devices*	48-TQFN-EP	12.03	8.02	5.81
MAX8663ETL+-ND	Power Management IC for Single-Cell, Li+ Battery Operated Devices*	40-TQFN-EP	11.19	7.46	5.40
MAX8671XETL+-ND	Power Management IC with Integrated Charger*	40-TQFN	12.75	8.50	6.16
MAX8677AETG+-ND	1.5A Dual-Input USB/AC Adapter Charger*	24-TQFN-EP	5.52	3.68	2.66
MAX8723ETE+-ND	Internal Switch, Step-Down Regulator*	16-TQFN	9.22	6.96	5.04
MAX8869EUE33+-ND	3.3V/Adj., 1A, MicroCap, LDO Linear Regulator*	16-TSSOP-EP	5.16	3.44	2.49
MAX8869EUE50+-ND	5V/Adj., 1A, MicroCap, LDO Linear Regulator*	16-TSSOP-EP	5.16	3.44	2.49
MAX8881EUT50+TCT-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	4.19	3.16	2.77
MAX8881EUT50+TTR-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	4937.50/2,500		
MAX8891EXK28+TCT-ND	2.8V, 150mA LDO Linear Regulator* **NEW!**	SC70-5	1.22	.92	.81
MAX8891EXK28+TTR-ND	2.8V, 150mA LDO Linear Regulator* **NEW!**	SC70-5	1437.50/2,500		
MAX8892EXK+TCT-ND	Adj., 150mA LDO Linear Regulator* **NEW!**	SC70-5	1.22	.92	.81
MAX8892EXK+TTR-ND	Adj., 150mA LDO Linear Regulator* **NEW!**	SC70-5	1437.50/2,500		
MAX8940EXK28+TCT-ND	2.8V, 120mA LDO Linear Regulator* **NEW!**	SC70-5	.95	.72	.63
MAX8940EXK28+TTR-ND	2.8V, 120mA LDO Linear Regulator* **NEW!**	SC70-5	1125.00/2,500		
MAX15006AASA+-ND	40V Ultra-Low Quiescent Current Linear Regulator*	8-SOIC	2.01	1.34	.97
MAX15006AATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15006AATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15006BATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15006BATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15006CATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15006CATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15007AATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15007AATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15007BATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15007BATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15007CATT+TCT-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	1.78	1.34	1.18
MAX15007CATT+TTR-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	6-TDFN-EP	2093.75/2,500		
MAX15027ATB+TCT-ND	1.425V~3.6V, 1A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	2.86	2.16	1.89
MAX15027ATB+TTR-ND	1.425V~3.6V, 1A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	3375.00/2,500		
MAX15028ATB+TCT-ND	1.425V~3.6V, 1A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	2.86	2.16	1.89
MAX15028ATB+TTR-ND	1.425V~3.6V, 1A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	3375.00/2,500		
MAX15030ATB+TCT-ND	1.425V~3.6V, .5A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	2.70	2.04	1.79
MAX15030ATB+TTR-ND	1.425V~3.6V, .5A LDO Regulator w/ BIAS Input* **NEW!**	10-TDFN-EP	3187.50/2,500		
MAX15006BASA+-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	8-SOIC	2.01	1.34	.97
MAX15007AASA+-ND	40V Ultra-Low Quiescent Current Linear Regulator*	8-SOIC	2.01	1.34	.97
MAX15007BASA+-ND	40V Ultra-Low Quiescent Current Linear Reg.* **NEW!**	8-SOIC	2.01	1.34	.97
MAX17112ETB+TCT-ND	High Performance Step-Up DC/DC Converter* **NEW!**	10-TDFN-EP	2.25	1.70	1.49
MAX17112ETB+TTR-ND	High Performance Step-Up DC/DC Converter* **NEW!**	10-TDFN-EP	2656.25/2,500		
SI7661CSA+-ND	CMOS Voltage Converter*	8-SOIC	5.58	3.72	2.69

SUPERVISORS AND VOLTAGE MONITORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX690ACPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	7.86	5.24	3.79
MAX690ACSA+-ND	Microprocessor WDT/Reset Circuit*	8-SOIC	8.25	5.50	3.98
MAX690AESA+-ND	Microprocessor WDT/Reset Circuit*	8-SOIC	11.55	7.70	5.58
MAX690CPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	8.19	5.46	3.95
MAX690EPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	11.88	7.92	5.74
MAX691ACPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	8.88	5.92	4.29
MAX691ACSE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	9.33	6.22	4.50
MAX691ACWE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	9.33	6.22	4.50
MAX691AEPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	11.13	7.42	5.37
MAX691AESE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	11.13	7.42	5.37
MAX691AEWE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	11.13	7.42	5.37
MAX691CPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	8.88	5.92	4.29
MAX691CWE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	9.78	6.52	4.72
MAX691EPE+-ND	Microprocessor Supervisory Circuit* **NEW!**	16-Dip	12.90	8.60	6.23
MAX691EWE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	14.19	9.46	6.85
MAX692ACPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	7.86	5.24	3.79
MAX692ACSA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	8.25	5.50	3.98
MAX692AESA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	11.55	7.70	5.58
MAX692CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	8.19	5.46	3.95
MAX693ACPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	8.88	5.92	4.29
MAX693ACSE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	9.33	6.22	4.50
MAX693CPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	8.88	5.92	4.29
MAX693CWE+-ND	Microprocessor Supervisory Circuit*	16-SOIC	9.78	6.52	4.72
MAX694CPA+-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140nS*	8-Dip	8.19	5.46	3.95
MAX695CPE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-Dip	8.88	5.92	4.29
MAX695CWE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-SOIC	9.78	6.52	4.72
MAX696EWE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-SOIC	14.19	9.46	6.85
MAX699CPA+-ND	Low Cost Power-On Reset and WDT Controller*	8-Dip	5.58	3.72	2.69
MAX700CSA+-ND	Adj. Threshold Power-Supply Monitor with Reset*	8-SOIC	5.88	3.92	2.84
MAX700CPA+-ND	Power-Supply Monitor with Reset*	8-Dip	5.88	3.92	2.84
MAX700ESA+-ND	Power-Supply Monitor with Reset*	8-SOIC	7.65	5.10	3.69
MAX701CPA+-ND	Power Supply Monitor with Reset*	8-Dip	5.34	3.56	2.58
MAX701CSA+-ND	Power Supply Monitor with Reset*	8-SOIC	5.34	3.56	2.58
MAX701ESA+-ND	Power Supply Monitor with Reset*	8-SOIC	6.93	4.62	3.34
MAX702CSA+-ND	Power-Supply Monitor with Reset*	8-SOIC	5.88	3.92	2.84
MAX703CPA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-Dip	6.90	4.60	3.33
MAX703CSA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-SOIC	6.90	4.60	3.33

SUPERVISORS AND VOLTAGE MONITORS

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX703ESA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-SOIC	8.97	5.98	4.33
MAX704CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-Dip	6.90	4.60	3.33
MAX704CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-SOIC	6.10	4.60	4.03
MAX704CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	6.90	4.60	3.33
MAX704ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	8.97	5.98	4.33
MAX704RCSA+-ND	3.0V/3.3V Microprocessor Supervisory Circuit*	8-SOIC	7.80	5.20	3.77
MAX704SCSA+-ND	3.0V/3.3V Microprocessor Supervisory Circuit*	8-SOIC	7.80	5.20	3.77
MAX704TCSA+-ND	3.0V/3.3V Microprocessor Supervisory Circuit*	8-SOIC	7.80	5.20	3.77
MAX704TESA+-ND	3.0V/3.3V Microprocessor Supervisory Circuit*	8-SOIC	10.14	6.76	4.90
MAX705CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-Dip	6.18	4.12	2.98
MAX705CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	6.18	4.12	2.98
MAX705ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	8.04	5.36	3.88
MAX706CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	6.18	4.12	2.98
MAX706CSA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	6.18	4.12	2.98
MAX706ESA+-ND	Low Power Microprocessor Circuit*	8-SOIC	8.04	5.36	3.88
MAX706PCSA+-ND	2.63V Microprocessor Supervisory Circuit*	8-SOIC	6.69	4.46	3.23
MAX706RCSA+-ND	2.63V Microprocessor Supervisory Circuit*	8-SOIC	6.69	4.46	3.23
MAX706RESA+-ND	2.63V Microprocessor Supervisory Circuit*	8-SOIC	8.70	5.80	4.20
MAX706SCSA+-ND	2.93V Microprocessor Supervisory Circuit*	8-SOIC	6.69	4.46	3.23
MAX706SESA+-ND	2.93V Microprocessor Supervisory Circuit*	8-SOIC	8.70	5.80	4.20
MAX706TCSA+-ND	3.08V Microprocessor Supervisory Circuit*	8-SOIC	6.69	4.46	3.23
MAX706TCUA+-ND	3.08V Microprocessor Supervisory Circuit*	8-µMAX	7.62	5.08	3.68
MAX706TESA+-ND	3.08V Microprocessor Supervisory Circuit*	8-SOIC	8.70	5.80	4.20
MAX707CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.65V Reset*	8-Dip	5.55	3.70	2.68
MAX707CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.65V Reset*	8-SOIC	5.55	3.70	2.68
MAX707ESA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.65V Reset*	8-SOIC	7.20	4.80	3.48
MAX708CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.4V Reset*	8-Dip	5.55	3.70	2.68
MAX708CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.4V Reset*	8-SOIC	5.55	3.70	2.68
MAX708ESA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.4V Reset*	8-SOIC	7.20	4.80	3.48
MAX708SCSA+-ND	MPU Supervisory Circuit Active-High/Low 2.93V Reset*	8-SOIC	6.00	4.00	2.90
MAX708SESA+-ND	Low-Cost, Microprocessor Supervisory Circuit Active-High/Low 2.93V Reset*	8-SOIC	7.80	5.20	3.77
MAX708TCSA+-ND	Low-Cost, Microprocessor Supervisory Circuit Active-High/Low 3.08V Reset*	8-SOIC	6.00	4.00	2.90
MAX708TESA+-ND	Low-Cost, Microprocessor Supervisory Circuit Active-High/Low 3.08V Reset*	8-SOIC	7.80	5.20	3.77
MAX709RCSA-ND	Power Supply Monitor, 2.63V Reset	8-SOIC	2.86	2.16	1.89
MAX709LCPA+-ND	Power Supply Monitor, 4.65V Reset*	8-Dip	3.00	2.00	1.45
MAX709LCSA+-ND	Power Supply Monitor, 4.65V Reset*	8-SOIC	3.24	2.16	1.56
MAX709MCPA+-ND	Power Supply Monitor, 4.40V Reset*	8-Dip	3.00	2.00	1.45
MAX791CPE+-ND	High Perform Microprocessor Supervisory Circuit*	16-Dip	9.60	6.40	4.64
MAX791CSE+-ND	High Perform Microprocessor Supervisory Circuit*	16-SOIC	10.08	6.72	4.87
MAX791ESE+-ND	High Perform Microprocessor Supervisory Circuit*	16-SOIC	13.11	8.74	6.33
MAX793RCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	9.69	6.46	4.68
MAX793SCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	9.69	6.46	4.68
MAX793SESE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	12.60	8.40	6.09
MAX793TCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	9.69	6.46	4.68
MAX793TESE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	12.60	8.40	6.09
MAX794CSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit* **NEW!**	16-SOIC	9.69	6.46	4.68
MAX795SCSA+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	8-SOIC	9.48	6.32	4.58
MAX800LCPE-ND	µP Supervisory Circuit with 4.65V Reset, Chip Enable, WD	16-Dip	9.28	7.00	4.50
MAX803LEXR+TCT-ND	4.63V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX803LEXR+TTR-ND	4.63V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX803MEXR+TCT-ND	4.38V, Microprocessor Reset Circuit*	SC70-3	2.25	1.70	1.49
MAX803MEXR+TTR-ND	4.38V, Microprocessor Reset Circuit*	SC70-3	2656.25/2,500		
MAX803REXR+TCT-ND	2.63V, Microprocessor Reset Circuit*	SC70-3	2.25	1.70	1.49
MAX803REXR+TTR-ND	2.63V, Microprocessor Reset Circuit*	SC70-3	2656.25/2,500		
MAX803SEXR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SC70-3	2.25	1.70	1.49
MAX803SEXR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SC70-3	2656.25/2,500		
MAX803TEXR+TCT-ND	3.08V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX803TEXR+TTR-ND	3.08V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX803ZEXR+TCT-ND	2.32V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX803ZEXR+TTR-ND	2.32V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX807LCWE+-ND	4.675V, Microprocessor Supervisory Circuit*	16-SOIC	9.69	6.46	4.68
MAX807NEWE+-ND	4.575V, Microprocessor Supervisory Circuit*	16-SOIC	12.60	8.40	6.09
MAX809JEUR+TCT-ND	4V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2.12	1.60	1.40
MAX809JEUR+TTR-ND	4V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2500.00/2,500		
MAX809LEUR+TCT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX809LEUR+TTR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX809MEUR+TCT-ND	4.38V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX809MEUR+TTR-ND	4.38V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX809REUR+TCT-ND	2.63V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX809REUR+TTR-ND	2.63V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX809REXR+TCT-ND	2.63V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX809REXR+TTR-ND	2.63V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX809SEUR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX809SEUR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX809SEXR+TCT-ND	2.93V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX809SEXR+TTR-ND	2.93V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX809TEUR+TCT-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX809TEUR+TTR-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX809TEXR+TCT-ND	3.08V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX809TEXR+TTR-ND	3.08V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX809ZEXR+TCT-ND	2.32V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX809ZEXR+TTR-ND	2.32V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		
MAX810LEUR+TCT-ND	4.63V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2.12	1.60	1.40
MAX810LEUR+TTR-ND	4.63V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2500.00/2,500		
MAX810MEUR+TCT-ND	4.38V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2.12	1.60	1.40
MAX810MEUR+TTR-ND	4.38V, Microprocessor Reset Circuit* **NEW!**	SOT-23-3	2500.00/2,500		
MAX810MEXR+TCT-ND	4.38V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2.25	1.70	1.49
MAX810MEXR+TTR-ND	4.38V, Microprocessor Reset Circuit* **NEW!**	SC70-3	2656.25/2,500		

(Continued)

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* *RoHS Compliant*

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX810REUR+TCT-ND	2.63V, Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.12	1.60	1.40
MAX810REUR+TTR-ND	2.63V, Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2500.00/2,500		
MAX810SEUR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SOT-23-3	2.12	1.60	1.40
MAX810SEUR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SOT-23-3	2500.00/2,500		
MAX810SEXR+TCT-ND	2.93V, Microprocessor Reset Circuit* ***NEW!***	SC70-3	2.25	1.70	1.49
MAX810SEXR+TTR-ND	2.93V, Microprocessor Reset Circuit* ***NEW!***	SC70-3	2656.25/2,500		
MAX810TEUR+TCT-ND	3.08V, Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.12	1.60	1.40
MAX810TEUR+TTR-ND	3.08V, Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2500.00/2,500		
MAX810TEXR+TCT-ND	3.08V, Microprocessor Reset Circuit* ***NEW!***	SC70-3	2.25	1.70	1.49
MAX810TEXR+TTR-ND	3.08V, Microprocessor Reset Circuit* ***NEW!***	SC70-3	2656.25/2,500		
MAX811LEUS+TCT-ND	4.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811LEUS+TTR-ND	4.63V, Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX811MEUS+TCT-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX811MEUS+TTR-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX811REUS+TCT-ND	2.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811REUS+TTR-ND	2.63V, Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX811SEUS+TCT-ND	2.93V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811SEUS+TTR-ND	2.93V, Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX811TEUS+TCT-ND	3.08V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811TEUS+TTR-ND	3.08V, Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX812LEUS+TCT-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX812LEUS+TTR-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX812MEUS+TCT-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX812MEUS+TTR-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX812REUS+TCT-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX812REUS+TTR-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX812SEUS+TCT-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX812SEUS+TTR-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX812TEUS+TCT-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX812TEUS+TTR-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX813LCPA+-ND	4.65V, Microprocessor Supervisor Circuit*	8-Dip	3.93	2.62	1.89
MAX813LCSA+-ND	4.65V, Microprocessor Supervisor Circuit*	8-SOIC	3.93	2.62	1.89
MAX813LEPA+-ND	4.65V, Microprocessor Supervisory Circuit*	8-Dip	5.10	3.40	2.46
MAX813LESA+-ND	4.65V, Microprocessor Supervisory Circuit*	8-SOIC	5.10	3.40	2.46
MAX815TESA+-ND	LP Microprocessor Supervisory Circuit*	8-SOIC	18.39	12.26	8.88
MAX816CSA+-ND	LP Microprocessor Supervisory Circuit*	8-SOIC	13.08	8.72	6.32
MAX818LCSA+-ND	5V Microprocessor Supervisory Circuit*	8-SOIC	7.53	5.02	3.63
MAX821LUS+TCT-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821LUS+TTR-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821MUS+TCT-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821MUS+TTR-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821PUS+TCT-ND	4V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821PUS+TTR-ND	4V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821RUS+TCT-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821RUS+TTR-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821SUS+TCT-ND	2.93V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821SUS+TTR-ND	2.93V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821TUS+TCT-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821TUS+TTR-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX821UUS+TCT-ND	2.78V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX821UUS+TTR-ND	2.78V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX822LUS+TCT-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX822LUS+TTR-ND	4.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX822MUS+TCT-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX822MUS+TTR-ND	4.38V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX822RUS+TCT-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX822RUS+TTR-ND	2.63V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX822SUS+TCT-ND	2.93V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX822SUS+TTR-ND	2.93V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX822TUS+TCT-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX822TUS+TTR-ND	3.08V, Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX823LEUK+TCT-ND	4.63V, Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX823LEUK+TTR-ND	4.63V, Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX823SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX823SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	3375.00/2,500		
MAX824LEUK+TCT-ND	4.63V, Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX824LEUK+TTR-ND	4.63V, Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX824SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX824SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	3375.00/2,500		
MAX825LEUK-TCT-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX825LEUK+TCT-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX825LEUK+TTR-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	3250.00/2,500		
MAX834EUK+TCT-ND	Micropower Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX834EUK+TTR-ND	Micropower Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX835EUK+TCT-ND	Micropower Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX835EUK+TTR-ND	Micropower Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX836EUS+TCT-ND	Micropower Voltage Monitor* ***NEW!***	SOT-143-4	2.15	1.62	1.42
MAX836EUS+TTR-ND	Micropower Voltage Monitor* ***NEW!***	SOT-143-4	2531.25/2,500		
MAX837EUS+TCT-ND	Micropower Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX837EUS+TTR-ND	Micropower Voltage Monitor*	SOT-143-4	2531.25/2,500		
MAX1232CPA+-ND	Microprocessor Monitor*	8-Dip	3.99	2.66	1.92
MAX1232CSA+-ND	Microprocessor Monitor*	8-SOIC	3.99	2.66	1.92
MAX1232EPA+-ND	Microprocessor Monitor High Temperature*	8-Dip	4.98	3.32	2.40
MAX1232ESA+-ND	Microprocessor Monitor High Temperature*	8-SOIC	5.19	3.46	2.50
MAX4004EUT+TCT-ND	High Accuracy, High-Side Current Monitor* ***NEW!***	SOT-23-6	2.76	2.08	1.82
MAX4004EUT+TTR-ND	High Accuracy, High-Side Current Monitor* ***NEW!***	SOT-23-6	3250.00/2,500		
MAX4006EUT+TCT-ND	High Accuracy, High-Side Current Monitor* ***NEW!***	SOT-23-6	2.89	2.18	1.91
MAX4006EUT+TTR-ND	High Accuracy, High-Side Current Monitor* ***NEW!***	SOT-23-6	3406.25/2,500		
MAX6301CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	4.32	2.88	2.08
MAX6301CUA+-ND	5V, LP, Micropower, Supervisory Circuit*	8-µMAX	4.32	2.88	2.08
MAX6301ESA+-ND	5V, LP, Micropower, Supervisory Circuit*	8-SOIC	4.32	2.88	2.08
MAX6303CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	4.32	2.88	2.08
MAX6303ESA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	4.32	2.88	2.08
MAX6305UK00D3+TCT-ND	Adj., Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6305UK00D3+TTR-ND	Adj., Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6306UK29D3+TCT-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6306UK29D3+TTR-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	3375.00/2,500		
MAX6306UK31D3+TCT-ND	3.08V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6306UK31D3+TTR-ND	3.08V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6306UK44D3+TCT-ND	4.38V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6306UK44D3+TTR-ND	4.38V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6306UK46D3+TCT-ND	4.63V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6306UK46D3+TTR-ND	4.63V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6308UK00D3+TCT-ND	Adj., Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6308UK00D3+TTR-ND	Adj., Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6309UK29D3+TCT-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6309UK29D3+TTR-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	3375.00/2,500		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX6309UK31D3+TCT-ND	3.08V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6309UK31D3+TTR-ND	3.08V, Multiple-Input Programmable Reset IC* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6312UK29D3+TCT-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6312UK29D3+TTR-ND	2.93V, Multiple-Input Programmable Reset IC*	SOT-23-5	3375.00/2,500		
MAX6314US26D3+TCT-ND	2.63V Reset Circuit* ***NEW!***	SOT-143	2.36	1.78	1.56
MAX6314US26D3+TTR-ND	2.63V Reset Circuit* ***NEW!***	SOT-143	2781.25/2,500		
MAX6314US31D3+TCT-ND	3.08V Reset Circuit* ***NEW!***	SOT-143	2.36	1.78	1.56
MAX6314US31D3+TTR-ND	3.08V Reset Circuit* ***NEW!***	SOT-143	2781.25/2,500		
MAX6314US46D3-TCT-ND	4.63V Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6314US46D3+TCT-ND	4.63V Reset Circuit*	SOT-143	2.36	1.78	1.56
MAX6314US46D3+TTR-ND	4.63V Reset Circuit*	SOT-143	2781.25/2,500		
MAX6315US26D3+TCT-ND	2.63V Reset Circuit* ***NEW!***	SOT-143	2.15	1.62	1.42
MAX6315US26D3+TTR-ND	2.63V Reset Circuit* ***NEW!***	SOT-143	2531.25/2,500		
MAX6315US29D3+TCT-ND	2.93V Reset Circuit* ***NEW!***	SOT-143	2.15	1.62	1.42
MAX6315US29D3+TTR-ND	2.93V Reset Circuit* ***NEW!***	SOT-143	2531.25/2,500		
MAX6315US31D3+TCT-ND	3.08V Reset Circuit* ***NEW!***	SOT-143	2.15	1.62	1.42
MAX6315US31D3+TTR-ND	3.08V Reset Circuit* ***NEW!***	SOT-143	2531.25/2,500		
MAX6315US44D3+TCT-ND	4.39V Reset Circuit* ***NEW!***	SOT-143	2.15	1.62	1.42
MAX6315US44D3+TTR-ND	4.39V Reset Circuit* ***NEW!***	SOT-143	2531.25/2,500		
MAX6315US46D3+TCT-ND	4.63V Reset Circuit* ***NEW!***	SOT-143	2.15	1.62	1.42
MAX6315US46D3+TTR-ND	4.63V Reset Circuit* ***NEW!***	SOT-143	2531.25/2,500		
MAX6316LUK29CY+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX6316LUK29CY+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX6320PUK29CY+TCT-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK29CY+TTR-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	3250.00/2,500		
MAX6320PUK46CYTCT-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CY+TCT-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CY+TTR-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	3250.00/2,500		
MAX6326UR22+TCT-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6326UR22+TTR-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6326UR23+TCT-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6326UR23+TTR-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6326UR26+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6326UR26+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6326UR29+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6326UR29+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6326UR31+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6326UR31+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6326XR31+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6326XR31+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6327UR23+TCT-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6327UR23+TTR-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6327UR26+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6327UR26+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6327UR29+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6327UR29+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6327XR29+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6327XR29+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6327XR31+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6327XR31+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6328UR22+TCT-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6328UR22+TTR-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6328UR23+TCT-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6328UR23+TTR-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6328UR26+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6328UR26+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6328UR29+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6328UR29+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6328UR31+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.36	1.78	1.56
MAX6328UR31+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2781.25/2,500		
MAX6328XR26+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6328XR26+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6328XR29+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6328XR29+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6328XR31+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6328XR31+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6332UR16D3+TCT-ND	1.6V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6332UR16D3+TTR-ND	1.6V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6333UR18D3+TCT-ND	1.8V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6333UR18D3+TTR-ND	1.8V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6334UR17D3+TCT-ND	1.7V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6334UR17D3+TTR-ND	1.7V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6334UR22D3+TCT-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6334UR22D3+TTR-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6334UR23D3+TCT-ND	2.3V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6334UR23D3+TTR-ND	2.3V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6336US23D3-TCT-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	2.52	1.90	1.67
MAX6336US23D3-TTR-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	2968.75/2,500		
MAX6337US16D3+TCT-ND	1.6V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2.52	1.90	1.67
MAX6337US16D3+TTR-ND	1.6V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2968.75/2,500		
MAX6337US22D3+TCT-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2.52	1.90	1.67
MAX6337US22D3+TTR-ND	2.2V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2968.75/2,500		
MAX6337US23D3+TCT-ND	2.3V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2.52	1.90	1.67
MAX6337US23D3+TTR-ND	2.3V Microprocessor Supervisory Circuit* ***NEW!***	SOT-143-4	2968.75/2,500		
MAX6338KUB+-ND	Quad Voltage Monitor*	10-µMAX	7.35	4.90	3.55
MAX6338LUB+-ND	Quad Voltage Monitor*	10-µMAX	7.35	4.90	3.55
MAX6338OUB+-ND	Quad Voltage Monitor*	10-µMAX	7.35	4.90	3.55
MAX6348UR46+TCT-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23	2.36	1.78	1.56
MAX6348UR46+TTR-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23	2781.25/2,500		
MAX6348XR46+TCT-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.33	1.76	1.54
MAX6348XR46+TTR-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2750.00/2,500		
MAX6351TWUT+TCT-ND	3.08V/1.67V MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6351TWUT+TTR-ND	3.08V/1.67V MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6353SYUK+TCT-ND	2.93V/2.19V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3.29	2.48	2.17
MAX6353SYUK+TTR-ND	2.93V/2.19V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3875.00/2,500		
MAX6353SZUK+TCT-ND	2.93V/2.32V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3.29	2.48	2.17
MAX6353SZUK+TTR-ND	2.93V/2.32V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3875.00/2,500		
MAX6353TZUK+TCT-ND	3.08V/2.32V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3.29	2.48	2.17
MAX6353TZUK+TTR-ND	3.08V/2.32V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3875.00/2,500		
MAX6353UWUK+TCT-ND	2.78V/1.67V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3.29	2.48	2.17
MAX6353UWUK+TTR-ND	2.78V/1.67V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3875.00/2,500		
MAX6354TYUK+TCT-ND	3.08V/2.19V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3.29	2.48	2.17
MAX6354TYUK+TTR-ND	3.08V/2.19V MPU Supervisory Circuit* ***NEW!***	SOT-23-5	3875.00/2,500		
MAX6355LSUT+TCT-ND	Microprocessor Supervisor with Multiple Reset Volt.*	SOT-23-6	3.29	2.48	2.17
MAX6355LSUT+TTR-ND	Microprocessor Supervisor with Multiple Reset Volt.*	SOT-23-6	3875.00/2,500		
MAX6356LSUT+TCT-ND	4.63V/2.93V/Adj. MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6356LSUT+TTR-ND	4.63V/2.93V/Adj. MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

MAXIM INNOVATION DELIVERED™ Digi-Reel® *(Cont.)*

SUPERVISORS AND VOLTAGE MONITORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX6357SYUT+TCT-ND	2.93V/2.19V/Adj. MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6357SYUT+TTR-ND	2.93V/2.19V/Adj. MPU Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6364LUT31+TCT-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	3.58	2.70	2.37
MAX6364LUT31+TTR-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	4218.75/2,500		
MAX6369KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6370KA+TCT-ND	Pin-Selectable Watchdog Timer* ***NEW!***	SOT-23-8	2.33	1.76	1.54
MAX6370KA+TTR-ND	Pin-Selectable Watchdog Timer* ***NEW!***	SOT-23-8	2750.00/2,500		
MAX6374KA+TCT-ND	Pin-Selectable Watchdog Timer* ***NEW!***	SOT-23-8	2.33	1.76	1.54
MAX6374KA+TTR-ND	Pin-Selectable Watchdog Timer* ***NEW!***	SOT-23-8	2750.00/2,500		
MAX6375UR23+TCT-ND	2.32V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2.15	1.62	1.42
MAX6375UR23+TTR-ND	2.32V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2531.25/2,500		
MAX6375UR31+TCT-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2.15	1.62	1.42
MAX6375UR31+TTR-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2531.25/2,500		
MAX6375XR26+TCT-ND	2.63V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6375XR26+TTR-ND	2.63V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2531.25/2,500		
MAX6375XR31+TCT-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6375XR31+TTR-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2531.25/2,500		
MAX6377UR26+TCT-ND	2.63V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2.15	1.62	1.42
MAX6377UR26+TTR-ND	2.63V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2531.25/2,500		
MAX6377XR31+TCT-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6377XR31+TTR-ND	3.08V, Ultra-Low Power Voltage Detector* ***NEW!***	SC70-3	2531.25/2,500		
MAX6378UR44+TCT-ND	4.38V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2.15	1.62	1.42
MAX6378UR44+TTR-ND	4.38V, Ultra-Low Power Voltage Detector* ***NEW!***	SOT-23-3	2531.25/2,500		
MAX6381XR22D3+TCT-ND	2.19V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6381XR22D3+TTR-ND	2.19V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6381XR26D3+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6381XR26D3+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6382XR46D3+TCT-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6382XR46D3+TTR-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6383LT29D3+TCT-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	6-µDFN	2.28	1.72	1.51
MAX6383LT29D3+TTR-ND	2.93V Microprocessor Supervisory Circuit* ***NEW!***	6-µDFN	2687.50/2,500		
MAX6383XR26D3+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6383XR26D3+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6384XS22D3+TCT-ND	2.19V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6384XS22D3+TTR-ND	2.19V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6384XS44D3+TCT-ND	4.38V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6384XS44D3+TTR-ND	4.38V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6385XS31D3+TCT-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6385XS31D3+TTR-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6387XS16D3+TCT-ND	1.58V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6387XS16D3+TTR-ND	1.58V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6387XS26D3+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6387XS26D3+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6401BS22+TCT-ND	2.2V~3.08V MPU Supervisory Circuit* ***NEW!***	4-UCSP	2.33	1.76	1.54
MAX6401BS22+TTR-ND	2.2V~3.08V MPU Supervisory Circuit* ***NEW!***	4-UCSP	2750.00/2,500		
MAX6402BS22+TCT-ND	2.2V~3.08V MPU Supervisory Circuit* ***NEW!***	4-UCSP	2.33	1.76	1.54
MAX6402BS22+TTR-ND	2.2V~3.08V MPU Supervisory Circuit* ***NEW!***	4-UCSP	2750.00/2,500		
MAX6412UK22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6412UK22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6412UK16+TCT-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6412UK16+TTR-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6412UK23+TCT-ND	2.313V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6412UK23+TTR-ND	2.313V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6412UK26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6412UK26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6412UK29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6412UK29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6412UK46+TCT-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6412UK46+TTR-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6413UK16+TCT-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6413UK16+TTR-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6413UK26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6413UK26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6413UK29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6413UK29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6413UK46+TCT-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6413UK46+TTR-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6414UK16+TCT-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6414UK16+TTR-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6414UK22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6414UK22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6414UK26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6414UK26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6414UK29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6414UK29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6414UK31+TCT-ND	3.075V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6414UK31+TTR-ND	3.075V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6414UK46+TCT-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6414UK46+TTR-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6415UK+TCT-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6415UK+TTR-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6416UK+TCT-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6416UK+TTR-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6417UK+TCT-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6417UK+TTR-ND	Adjustable MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6418UK16+TCT-ND	1.575V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6418UK16+TTR-ND	1.575V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6418UK22+TCT-ND	2.188V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6418UK22+TTR-ND	2.188V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6418UK26+TCT-ND	2.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6418UK26+TTR-ND	2.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6418UK29+TCT-ND	2.925V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6418UK29+TTR-ND	2.925V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6418UK31+TCT-ND	3.075V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6418UK31+TTR-ND	3.075V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6418UK46+TCT-ND	4.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6418UK46+TTR-ND	4.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6419UK29+TCT-ND	2.925V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6419UK29+TTR-ND	2.925V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6419UK31+TCT-ND	3.075V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6419UK31+TTR-ND	3.075V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6420UK16+TCT-ND	1.575V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6420UK16+TTR-ND	1.575V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6420UK22+TCT-ND	2.188V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6420UK22+TTR-ND	2.188V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6420UK26+TCT-ND	2.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6420UK26+TTR-ND	2.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6420UK29+TCT-ND	2.925V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6420UK29+TTR-ND	2.925V/Adj. MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6420UK46+TCT-ND	4.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6420UK46+TTR-ND	4.625V/Adj. MPU Reset Circuit w/ Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6421US26+TCT-ND	2.63V MPU Reset Circuit with Adj. Delay*	SOT-143-4	2.17	1.64	1.44
MAX6421US26+TTR-ND	2.63V MPU Reset Circuit with Adj. Delay*	SOT-143-4	2562.50/2,500		
MAX6421XS22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6421XS22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6421XS26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6421XS26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6421XS29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6421XS29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6422US22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-143-4	2.17	1.64	1.44
MAX6422US22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-143-4	2562.50/2,500		
MAX6422US26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-143-4	2.17	1.64	1.44
MAX6422US26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-143-4	2562.50/2,500		
MAX6422XS22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6422XS22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6422XS26+TCT-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6422XS26+TTR-ND	2.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6423XS16+TCT-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6423XS16+TTR-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6423XS26+TCT-ND	2.63V MPU Reset Circuit with Adj. Delay*	SC70-4	2.17	1.64	1.44
MAX6423XS26+TTR-ND	2.63V MPU Reset Circuit with Adj. Delay*	SC70-4	2562.50/2,500		
MAX6423XS29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2.17	1.64	1.44
MAX6423XS29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SC70-4	2562.50/2,500		
MAX6424UK22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6424UK22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6424UK29+TCT-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6424UK29+TTR-ND	2.925V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6424UK31+TCT-ND	3.075V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6424UK31+TTR-ND	3.075V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6425UK16+TCT-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6425UK16+TTR-ND	1.575V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6425UK22+TCT-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6425UK22+TTR-ND	2.188V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6425UK26+TCT-ND	2.63V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2.17	1.64	1.44
MAX6425UK26+TTR-ND	2.63V MPU Reset Circuit with Adj. Delay*	SOT-23-5	2562.50/2,500		
MAX6425UK46+TCT-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2.17	1.64	1.44
MAX6425UK46+TTR-ND	4.625V MPU Reset Circuit with Adj. Delay* ***NEW!***	SOT-23-5	2562.50/2,500		
MAX6427DHUR+TCT-ND	2.9V/3.4V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2.07	1.56	1.37
MAX6427DHUR+TTR-ND	2.9V/3.4V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2437.50/2,500		
MAX6427EIUR+TCT-ND	3.0V/3.5V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2.07	1.56	1.37
MAX6427EIUR+TTR-ND	3.0V/3.5V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2437.50/2,500		
MAX6427MRUR+TCT-ND	1.8V/2.4V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2.07	1.56	1.37
MAX6427MRUR+TTR-ND	1.8V/2.4V Battery Monitor with Hysteresis* ***NEW!***	SOT-23-3	2437.50/2,500		
MAX6436UT+TCT-ND	Adjustable Battery Monitor with Hysteresis* ***NEW!***	SOT-23-6	2.60	1.96	1.72
MAX6436UT+TTR-ND	Adjustable Battery Monitor with Hysteresis* ***NEW!***	SOT-23-6	3062.50/2,500		
MAX6437UT+TCT-ND	Adjustable Battery Monitor with Hysteresis* ***NEW!***	SOT-23-6	2.60	1.96	1.72
MAX6437UT+TTR-ND	Adjustable Battery Monitor with Hysteresis* ***NEW!***	SOT-23-6	3062.50/2,500		
MAX6443US26L+TCT-ND	2.63V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2.36	1.78	1.56
MAX6443US26L+TTR-ND	2.63V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2781.25/2,500		
MAX6444US23L+TCT-ND	2.32V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2.36	1.78	1.56
MAX6444US23L+TTR-ND	2.32V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2781.25/2,500		
MAX6444US26L+TCT-ND	2.63V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2.36	1.78	1.56
MAX6444US26L+TTR-ND	2.63V Microprocessor Reset Circuit* ***NEW!***	SOT143-4	2781.25/2,500		
MAX6456UT26S+TCT-ND	2.625V Microprocessor Supervisor w/ Reset* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6456UT26S+TTR-ND	2.625V Microprocessor Supervisor w/ Reset* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6457UKD0A+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6457UKD0A+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6457UKD0B+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6457UKD0B+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6457UKD0C+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6457UKD0C+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6457UKD3A+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6457UKD3A+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6457UKD3B+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6457UKD3B+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6457UKD3C+TCT-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	2.86	2.16	1.89
MAX6457UKD3C+TTR-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	3375.00/2,500		
MAX6458UKD0A+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3.23	2.44	2.14
MAX6458UKD0A+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3812.50/2,500		
MAX6458UKD3A+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3.23	2.44	2.14
MAX6458UKD3A+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3812.50/2,500		
MAX6458UKD3B+TCT-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3.23	2.44	2.14
MAX6458UKD3B+TTR-ND	High Voltage, Low Current Voltage Monitor* ***NEW!***	SOT-23-5	3812.50/2,500		
MAX6461XR16+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6461XR16+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6461XR26+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6461XR26+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6463XR16+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6463XR16+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6464XR16+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6464XR16+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6464XR29+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6464XR29+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6464XR46+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6464XR46+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6466XR16+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6466XR16+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6466XR46+TCT-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2.15	1.62	1.42
MAX6466XR46+TTR-ND	Voltage Detector/Supervisory Circuit* ***NEW!***	SC70-3	2531.25/2,500		
MAX6467US16D3+TCT-ND	1.575V MPU Supervisory Reset Circuit* ***NEW!***	SOT-143-4	2.28	1.72	1.51
MAX6467US16D3+TTR-ND	1.575V MPU Supervisory Reset Circuit* ***NEW!***	SOT-143-4	2687.50/2,500		
MAX6467US22D3+TCT-ND	2.188V MPU Supervisory Reset Circuit* ***NEW!***	SOT-143-4	2.28	1.72	1.51
MAX6467US22D3+TTR-ND	2.188V MPU Supervisory Reset Circuit* ***NEW!***	SOT-143-4	2687.50/2,500		
MAX6703RKA+TCT-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3.29	2.48	2.17
MAX6703RKA+TTR-ND	2.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3875.00/2,500		
MAX6703ZKA+TCT-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3.29	2.48	2.17
MAX6703ZKA+TTR-ND	2.32V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3875.00/2,500		
MAX6705LKA+TCT-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3.29	2.48	2.17
MAX6705LKA+TTR-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3875.00/2,500		
MAX6706LKA+TCT-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3.29	2.48	2.17
MAX6706LKA+TTR-ND	4.63V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3875.00/2,500		
MAX6708MKA+TCT-ND	4.38V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3.29	2.48	2.17
MAX6708MKA+TTR-ND	4.38V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3875.00/2,500		
MAX6711LEXS+TCT-ND	4.63V MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53

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(Continued)

SUPERVISORS AND VOLTAGE MONITORS

MAXIM INNOVATION DELIVERED™ Digi-Reel® *(Cont.)* SUPERVISORS AND VOLTAGE MONITORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX6711LEXS+TTR-ND	4.63V MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6711MEXS+TCT-ND	4.38V MPU Reset Circuit with Manual Reset Input* ***NEW!***	SC70-4	2.31	1.74	1.53
MAX6711MEXS+TTR-ND	4.38V MPU Reset Circuit with Manual Reset Input* ***NEW!***	SC70-4	2718.75/2,500		
MAX6711REXS+TCT-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711REXS+TTR-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6711SEXS+TCT-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711SEXS+TTR-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6711TEXS+TCT-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711TEXS+TTR-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6711ZEXS+TCT-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711ZEXS+TTR-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713LEXS+TCT-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713LEXS+TTR-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713MEXS+TCT-ND	4.38V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713MEXS+TTR-ND	4.38V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713REXS+TCT-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713REXS+TTR-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713SEXS+TCT-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713SEXS+TTR-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713TEXS+TCT-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713TEXS+TTR-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6713ZEXS+TCT-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713ZEXS+TTR-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2718.75/2,500		
MAX6714DUB+-ND	Low Voltage, Quad Voltage Monitor* ***NEW!***	10-µMAX	7.35	4.90	3.55
MAX6716UTVDD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6716UTVDD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6717UKSDD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX6717UKSDD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX6718UKSYD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX6718UKSYD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX6718UKVDD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX6718UKVDD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX6719UTSYD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6719UTSYD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6719UTTZD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6719UTTZD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6719UTYHD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6719UTYHD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6719UTZGD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6719UTZGD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6720UTSDD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6720UTSDD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6720UTVDD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6720UTVDD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6722UTSDD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6722UTSDD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6722UTSVD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6722UTSVD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6722UTTGD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6722UTTGD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6722UTZWD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6722UTZWD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6723UTSHD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6723UTSHD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6723UTSVD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6723UTSVD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6724UTSYD3+TCT-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3.29	2.48	2.17
MAX6724UTSYD3+TTR-ND	Triple Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-6	3875.00/2,500		
MAX6736XKSFD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3.29	2.48	2.17
MAX6736XKSFD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3875.00/2,500		
MAX6736XKZGD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3.29	2.48	2.17
MAX6736XKZGD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3875.00/2,500		
MAX6736XKZWD3+TCT-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3.29	2.48	2.17
MAX6736XKZWD3+TTR-ND	Dual Microprocessor Supervisory Circuit* ***NEW!***	SC70-5	3875.00/2,500		
MAX6746KA16+TCT-ND	1.575V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	2.86	2.16	1.89
MAX6746KA16+TTR-ND	1.575V Microprocessor Supervisory Circuit* ***NEW!***	SOT-23-8	3375.00/2,500		
MAX6746KA29+TCT-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	2.86	2.16	1.89
MAX6746KA29+TTR-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	3375.00/2,500		
MAX6746KA46+TCT-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	2.86	2.16	1.89
MAX6746KA46+TTR-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	4320.00/2,500		
MAX6747KA29+TCT-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	2.86	2.16	1.89
MAX6747KA29+TTR-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	3375.00/2,500		
MAX6747KA46+TCT-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	2.86	2.16	1.89
MAX6747KA46+TTR-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	3375.00/2,500		
MAX6749KA+TCT-ND	Adj., Microprocessor Supervisory Circuit*	SOT-23-8	2.86	2.16	1.89
MAX6749KA+TTR-ND	Adj., Microprocessor Supervisory Circuit*	SOT-23-8	3375.00/2,500		
MAX6750KA29+TCT-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	3.58	2.70	2.37
MAX6750KA29+TTR-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	4218.75/2,500		
MAX6751KA29+TCT-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	3.58	2.70	2.37
MAX6751KA29+TTR-ND	2.925V Microprocessor Supervisory Circuit*	SOT-23-8	4218.75/2,500		
MAX6752KA46+TCT-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	3.58	2.70	2.37
MAX6752KA46+TTR-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	4218.75/2,500		
MAX6753KA46+TCT-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	3.58	2.70	2.37
MAX6753KA46+TTR-ND	4.625V Microprocessor Supervisory Circuit*	SOT-23-8	4218.75/2,500		
MAX6754UKTD3+TCT-ND	3.3V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6754UKTD3+TTR-ND	3.3V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6754UKWD3+TCT-ND	1.8V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6754UKWD3+TTR-ND	1.8V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6756UKTD3+TCT-ND	3.3V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6756UKTD3+TTR-ND	3.3V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6756UKZD3+TCT-ND	2.5V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	2.86	2.16	1.89
MAX6756UKZD3+TTR-ND	2.5V Low Power Voltage Monitor* ***NEW!***	SOT-23-5	3375.00/2,500		
MAX6759UTWD3+TCT-ND	1.8V Low Power Voltage Monitor* ***NEW!***	SOT-23-6	3.23	2.44	2.14
MAX6759UTWD3+TTR-ND	1.8V Low Power Voltage Monitor* ***NEW!***	SOT-23-6	3812.50/2,500		
MAX6775LTA+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6775LTA+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2437.50/2,500		
MAX6776LTA+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6776LTA+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2437.50/2,500		
MAX6777LT+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6777LT+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2437.50/2,500		
MAX6778XK+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	SC70-5	2.07	1.56	1.37
MAX6778XK+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	SC70-5	2437.50/2,500		
MAX6779LTC+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6779LTC+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3062.50/2,500		
MAX6780LTB+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6780LTB+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3062.50/2,500		
MAX6781LTB+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6781LTB+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3062.50/2,500		
MAX6801UR31D3+TCT-ND	3.08V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6801UR31D3+TTR-ND	3.08V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6801UR44D3+TCT-ND	4.38V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6801UR44D3+TTR-ND	4.38V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6801UR46D3+TCT-ND	4.63V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.33	1.76	1.54
MAX6801UR46D3+TTR-ND	4.63V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2750.00/2,500		
MAX6803US31D3+TCT-ND	3.08V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2.33	1.76	1.54
MAX6803US31D3+TTR-ND	3.08V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2750.00/2,500		
MAX6804US26D3+TCT-ND	2.63V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2.33	1.76	1.54
MAX6804US26D3+TTR-ND	2.63V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2750.00/2,500		
MAX6804US29D3+TCT-ND	2.93V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2.33	1.76	1.54
MAX6804US29D3+TTR-ND	2.93V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2750.00/2,500		
MAX6804US44D3+TCT-ND	4.38V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2.33	1.76	1.54
MAX6804US44D3+TTR-ND	4.38V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2750.00/2,500		
MAX6805US44D3+TCT-ND	4.38V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2.33	1.76	1.54
MAX6805US44D3+TTR-ND	4.38V MPU Reset Circuit with Manual Reset* ***NEW!***	SOT-143-4	2750.00/2,500		
MAX6808UR46+TCT-ND	4.6V Precision Voltage Detector* ***NEW!***	SOT-23-3	2.17	1.64	1.44
MAX6808UR46+TTR-ND	4.6V Precision Voltage Detector* ***NEW!***	SOT-23-3	2562.50/2,500		
MAX6832HXRD0+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6832HXRD0+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6832HXRD3+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6832HXRD3+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6832VXRD0+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6832VXRD0+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6832VXRD3+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6832VXRD3+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6833FXRD0+TCT-ND	1.050V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6833FXRD0+TTR-ND	1.050V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6833HXRD0+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6833HXRD0+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6833VXRD0+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6833VXRD0+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6833VXRD3+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6833VXRD3+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6834GXRD0+TCT-ND	1.11V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6834GXRD0+TTR-ND	1.11V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6834HXRD3+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6834HXRD3+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6834IXRD3+TCT-ND	1.388V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6834IXRD3+TTR-ND	1.388V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6834VXRD3+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2.28	1.72	1.51
MAX6834VXRD3+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-3	2687.50/2,500		
MAX6835FXSD3+TCT-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6835FXSD3+TTR-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6835HXSD3+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6835HXSD3+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6835VXSD3+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6835VXSD3+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6836FXSD3+TCT-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6836FXSD3+TTR-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6836HXSD0+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6836HXSD0+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6836VXSD0+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6836VXSD0+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6836VXSD3+TCT-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6836VXSD3+TTR-ND	1.575V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6837FXSD0+TCT-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6837FXSD0+TTR-ND	1.05V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6837HXSD3+TCT-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6837HXSD3+TTR-ND	1.313V Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6840XSD0+TCT-ND	Adj. Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2.28	1.72	1.51
MAX6840XSD0+TTR-ND	Adj. Voltage Detector / MPU Reset Circuit* ***NEW!***	SC70-4	2687.50/2,500		
MAX6841DUKD0+TCT-ND	0.788V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6841DUKD0+TTR-ND	0.788V, Reset Circuit and Voltage Detector*	SOT-23-5	3250.00/2,500		
MAX6841FUKD3+TCT-ND	1.050V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6842HUKD0+TCT-ND	1.313V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6842HUKD0+TTR-ND	1.313V, Reset Circuit and Voltage Detector*	SOT-23-5	3250.00/2,500		
MAX6843UKD0+TCT-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6843UKD0+TTR-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	3250.00/2,500		
MAX6844UKD3+TCT-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6844UKD3+TTR-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	3250.00/2,500		
MAX6845UKD3+TCT-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6845UKD3+TTR-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	3250.00/2,500		
MAX6862UK26+TCT-ND	2.625V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	2.15	1.62	1.42
MAX6862UK26+TTR-ND	2.625V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	2531.25/2,500		
MAX6863UK26+TCT-ND	2.625V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	2.15	1.62	1.42
MAX6863UK26+TTR-ND	2.625V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	2531.25/2,500		
MAX6864UK23D3S+TCT-ND	2.313V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX6864UK23D3S+TTR-ND	2.313V MPU Supervisory Circuit with Reset* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX6896PALT+TCT-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	6-µDFN	1.48	1.12	.98
MAX6896PALT+TTR-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	6-µDFN	1750.00/2,500		
MAX6897PALT+TCT-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	6-µDFN	1.48	1.12	.98
MAX6897PALT+TTR-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	6-µDFN	1750.00/2,500		
MAX8213ACSE+-ND	2.7 ~ 11V Microprocessor Voltage Monitor*	16-SOIC	8.19	5.46	3.95
MAX8215ESD+-ND	Plus/Minus 5V/ Plus/Minus 12V MPU Volt. Monitor*	14-SOIC	7.29	4.86	3.52
MAX8216CSD+-ND	Plus/Minus 5V/ Plus/Minus 15V MPU Volt. Monitor*	14-SOIC	5.61	3.74	2.71
MAX8216ESD+-ND	Plus/Minus 5V/ Plus/Minus 15V MPU Volt. Monitor*	14-SOIC	7.29	4.86	3.52
MAX16052AUT+TCT-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	SOT-23-6	1.99	1.50	1.32
MAX16052AUT+TTR-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	SOT-23-6	2343.75/2,500		
MAX16053AUT+TCT-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	SOT-23-6	1.99	1.50	1.32
MAX16053AUT+TTR-ND	Adjustable Sequencing/Supervisory Circuit* ***NEW!***	SOT-23-6	2343.75/2,500		
MAX16054AZT+TCT-ND	On/Off Ctrlr. w/Debounce and ESD Protection* ***NEW!***	SOT-23-6	2.49	1.88	1.65
MAX16054AZT+TTR-ND	On/Off Ctrlr. w/Debounce and ESD Protection* ***NEW!***	SOT-23-6	2937.50/2,500		
MXD1810UR41+TCT-ND	4.12V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.12	1.60	1.40
MXD1810UR41+TTR-ND	4.12V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2500.00/2,500		
MXD1811UR44+TCT-ND	4.37V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.39	1.80	1.58
MXD1811UR44+TTR-ND	4.37V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2812.50/2,500		
MXD1813XR46+TCT-ND	4.62V Microprocessor Reset Circuit* ***NEW!***	SC70-3	2.39	1.80	1.58
MXD1813XR46+TTR-ND	4.62V Microprocessor Reset Circuit* ***NEW!***	SC70-3	2812.50/2,500		
MXD1816UR26+TCT-ND	2.55V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.12	1.60	1.40
MXD1816UR26+TTR-ND	2.55V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2500.00/2,500		
MXD1818UR26+TCT-ND	2.55V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2.39	1.80	1.58
MXD1818UR26+TTR-ND	2.55V Microprocessor Reset Circuit* ***NEW!***	SOT-23-3	2812.50/2,500		

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(Continued)

SWITCHES AND MULTIPLEXERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DG201ACJ+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-Dip	5.49	3.66	2.65
DG201ACSE+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-SOIC	5.46	3.64	2.63
DG211CJ+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-Dip	3.90	2.60	1.88
DG211CSE+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-SOIC	3.12	2.08	1.50
DG212CJ+-ND	Quad SPST CMOS Normally Open Analog Switch*	16-Dip	3.90	2.60	1.88
DG303ACWE+-ND	Dual Analog CMOS Switch*	16-SOIC	13.41	8.94	6.48
DG305ACJ-ND	SPDT Low Power Analog CMOS Switch	14-Dip	6.47	4.88	2.87
MAX306EWI+-ND	16-Channel CMOS Analog Multiplexer* ***NEW!***	28-SOIC	23.40	15.60	11.31
MAX336CWI+-ND	16-Channel CMOS Analog Multiplexer* ***NEW!***	28-SOIC	12.63	8.42	6.10
DG403CY+-ND	Dual SPDT High Speed Analog Switch*	16-SOIC	10.77	7.18	5.20
DG403DJ+-ND	Dual SPDT High Speed Analog Switch*	16-Dip	9.45	6.30	4.56
DG403DY+-ND	Dual SPDT High Speed Analog Switch*	16-SOIC	11.34	7.56	5.48
DG406CWI+-ND	16-Channel CMOS Analog Multiplexer*	28-SOIC	14.82	9.88	7.16
DG406DJ+-ND	16-Channel CMOS Analog Multiplexer*	28-Dip	13.98	9.32	6.75
DG406EWI+-ND	16-Channel CMOS Analog Multiplexer*	28-SOIC	19.26	12.84	9.30
DG408DY+-ND	8-Channel CMOS Analog Multiplexer*	16-SOIC	8.70	5.80	4.20
DG409CY+-ND	4-Channel CMOS Analog Multiplexer* ***NEW!***	16-SOIC	6.69	4.46	3.23
DG411DY+-ND	Quad SPST Analog Switches*	16-SOIC	8.40	5.60	4.06
DG412CUE+-ND	Quad SPST Analog Switches*	16-TSSOP	8.19	5.46	3.95
DG413DY+-ND	SPST, Quad Two Normally Closed and Two Normally Open Analog CMOS Switch*	16-SOIC	8.19	5.46	3.95
DG417LEUA+-ND	35-Ohm, SPST +3V Logic-Compatible, Normally Closed Analog CMOS Switch*	8-µMAX	3.90	2.60	1.88
DG418DY+-ND	Precision CMOS Analog Switch*	8-SOIC	3.69	2.46	1.78
DG419CJ+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-Dip	4.08	2.72	1.97
DG419CY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	4.89	3.26	2.36
DG419DJ-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch	8-Dip	3.79	2.86	2.04
DG419DJ+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-Dip	4.29	2.86	2.07
DG419DY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	5.16	3.44	2.49
DG506ACJ+-ND	Monolithic CMOS Analog Multiplexer*	28-Dip	15.45	10.30	7.46
DG508ACJ+-ND	Monolithic CMOS Analog 1-to-8 Multiplexer*	16-Dip	6.45	4.30	3.11
DG508ACWE+-ND	Monolithic CMOS Analog 1-to-8 Multiplexer*	16-SOIC	9.93	6.62	4.79
DG508ADY+-ND	Monolithic CMOS Analog 1-to-8 Multiplexer*	16-SOIC	7.65	5.10	3.69
DG509ACJ+-ND	Monolithic CMOS Analog 2-to-8 Multiplexer*	16-Dip	6.45	4.30	3.11
DG509ADY+-ND	Monolithic CMOS Analog 2-to-8 Multiplexer*	16-SOIC	7.65	5.10	3.69
DS3112+-ND	TEMPE T3/E3 Multiplexer* ***NEW!***	256-PBGA	93.14	82.13	79.47
HI6-0201-5-ND	Quad SPST CMOS Analog Switch	16-SOIC	7.26	4.84	3.50
IH5043CPE+-ND	Dual SPDT General Purpose CMOS Analog Switch*	16-Dip	8.04	5.36	3.88
MAX301CPE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPST)	16-Dip	4.58	3.46	2.47
MAX301CSE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPST)*	16-SOIC	6.24	4.16	3.01
MAX303CPE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-Dip	10.92	7.28	5.27
MAX303CSE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-SOIC	13.08	8.72	6.32
MAX303ESE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-SOIC	13.77	9.18	6.65
MAX305CPE+-ND	Precision Dual, Matched CMOS Switches (DPST, NO)*	16-Dip	10.92	7.28	5.27
MAX306CPI+-ND	Precision 16-Channel High Perf. CMOS Analog Mux*	28-Dip	13.05	8.70	6.30
MAX306CWI+-ND	Prec. 16-Channel High Performance CMOS Analog Mux*	28-SOIC	18.00	12.00	8.70
MAX306EUI+-ND	Precision 16-Ch. High Performance CMOS Analog Mux*	28-TSSOP	23.40	15.60	11.31
MAX307CPI-ND	Prec. Dual 8-Ch. High Performance CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX307CPI+-ND	Prec. Dual 8-Ch. High Performance CMOS Analog Mux*	28-Dip	13.05	8.70	6.30
MAX307CWI+-ND	Prec. Dual 8-Ch. High Performance CMOS Analog Mux*	28-SOIC	18.00	12.00	8.70
MAX307EWI+-ND	Prec. Dual 8-Ch. High Perf. CMOS Analog Mux*	28-SOIC	23.40	15.60	11.31
MAX308CPE+-ND	Prec. 8-Channel, High Performance CMOS Analog Mux*	16-Dip	8.46	5.64	4.08
MAX308CSE+-ND	Prec. 8-Channel, High Performance CMOS Analog Mux*	16-SOIC	10.14	6.76	4.90
MAX308ESE+-ND	Prec. 8-Channel, High Performance CMOS Analog Mux*	16-SOIC	10.56	7.04	5.10
MAX309CPE+-ND	Prec. Dual 4-Ch. High Performance CMOS Analog Mux*	16-Dip	8.46	5.64	4.08
MAX309CSE+-ND	Prec. Dual 4-Ch. High Performance CMOS Analog Mux*	16-SOIC	10.14	6.76	4.90
MAX309ESE+-ND	Prec. Dual 4-Ch. High Perf. CMOS Analog Mux*	16-SOIC	10.56	7.04	5.10
MAX310CPE+-ND	CMOS RF/Video Mux*	16-Dip	19.53	13.02	9.43
MAX312CSE+-ND	CMOS, Analog Switch, Quad, SPST*	16-SOIC	12.12	8.08	5.85
MAX312ESE+-ND	CMOS, Analog Switch, Quad, SPST*	16-SOIC	12.75	8.50	6.16
MAX313CPE+-ND	CMOS Analog Switch, Quad, SPST*	16-Dip	9.36	6.24	4.52
MAX313CSE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	12.12	8.08	5.85
MAX313CUE+-ND	CMOS Analog Switch, Quad, SPST*	16-TSSOP	9.93	6.62	4.79
MAX313ESE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	12.75	8.50	6.16
MAX314CSE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	12.12	8.08	5.85
MAX314ESE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	12.75	8.50	6.16
MAX317CSA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-SOIC	3.74	2.82	2.02
MAX317CSA+-ND	Precision SPST Normally Closed CMOS Analog Switch*	8-SOIC	4.23	2.82	2.04
MAX318CPA+-ND	Precision SPST Normally Open Analog Switch*	8-Dip	3.63	2.42	1.75
MAX318CSA+-ND	Precision SPST Normally Open Analog Switch*	8-SOIC	4.23	2.82	2.04
MAX319CPA+-ND	Precision SPDT CMOS Analog Switch*	8-Dip	4.86	3.24	2.34
MAX319CSA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	5.37	3.58	2.59
MAX319ESA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	6.24	4.16	3.01
MAX323CPA+-ND	Precision Single Supply, SPST Analog Switch*	8-Dip	3.36	2.24	1.62
MAX323CSA+-ND	Precision Single Supply, SPST Analog Switch*	8-SOIC	3.69	2.46	1.78
MAX323ESA+-ND	Precision Single Supply, SPST Analog Switch*	8-SOIC	4.77	3.18	2.30
MAX325CSA+-ND	Precision Single Supply, SPST Analog Switches*	8-SOIC	3.69	2.46	1.78
MAX325ESA+-ND	Precision Single Supply, SPST Analog Switches*	8-SOIC	4.77	3.18	2.30
MAX326CPE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-Dip	9.84	6.56	4.75
MAX326CSE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-SOIC	10.80	7.20	5.22
MAX328CPE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-Dip	12.81	8.54	6.19
MAX328CWE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-SOIC	14.07	9.38	6.80
MAX328EWE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-SOIC	16.65	11.10	8.04
MAX329CPE+-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux*	16-Dip	12.81	8.54	6.19
MAX329CWE+-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux*	16-SOIC	14.07	9.38	6.80
MAX333ACPP+-ND	Quad SPDT CMOS Analog Switch*	20-Dip	9.06	6.04	4.37
MAX333ACUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	10.71	7.14	5.17
MAX333ACWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	11.70	7.80	5.65
MAX333AEUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	11.79	7.86	5.69
MAX333AEWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	14.88	9.92	7.19
MAX333CPP+-ND	Quad SPDT CMOS Analog Switch*	20-Dip	8.16	5.44	3.94
MAX333CWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	10.53	7.02	5.08
MAX335CNG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-Dip	8.04	5.36	3.88
MAX335CWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	8.82	5.88	4.26
MAX335EWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	9.72	6.48	4.69
MAX336CAI+-ND	16-Channel, Low-Leakage, CMOS Analog Multiplexer*	28-SSOP	12.63	8.42	6.10
MAX338CSE+-ND	8-Ch., Low-Leakage, CMOS Analog Multiplexer*	16-SOIC	7.80	5.20	3.77
MAX338ESE+-ND	8-Channel, Low-Leakage, CMOS Analog Multiplexer*	16-SOIC	9.27	6.18	4.48
MAX339ESE+-ND	8-Ch., Low-Leakage, CMOS Analog Multiplexer*	16-SOIC	9.27	6.18	4.48
MAX349CAP+-ND	8-Channel, Serially Controlled, Low-Voltage Multiplexer*	20-SSOP	9.30	6.20	4.49
MAX351CPE+-ND	Precision Quad SPST Analog Switch Normally Closed*	16-Dip	7.47	4.98	3.61
MAX352CPE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-Dip	7.47	4.98	3.61
MAX352CSE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	9.69	6.46	4.68
MAX352ESE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	9.96	6.64	4.81
MAX353CPE-ND	Precision Quad SPST Analog Switch 2 N.C. and 2 N.O.	16-Dip	6.60	4.98	3.56
MAX353CPE+-ND	Precision Quad SPST Analog Switch 2 N.C. and 2 N.O.*	16-Dip	6.60	4.98	2.93
MAX353CSE+-ND	Precision Quad SPST Analog Switch 2 N.C. and 2 N.O.*	16-SOIC	9.69	6.46	4.68
MAX354CWE+-ND	Single 8-Channel Fault Protected Analog Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX354EWE+-ND	Single 8-Channel Fault Protected Analog Mux.*	16-SOIC	13.50	9.00	6.52
MAX355CPE+-ND	Dual 4-Channel Fault Protected Analog Multiplexer*	16-Dip	12.27	8.18	5.93
MAX355CWE+-ND	Dual 4-Channel Fault Protected Analog Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX358CPE+-ND	Fault Protected 8-Channel Multiplexer*	16-Dip	12.27	8.18	5.93
MAX358CWE+-ND	Fault Protected 8-Channel Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX358EWE+-ND	Fault Protected 8-Channel Multiplexer*	16-SOIC	13.50	9.00	6.52
MAX359CPE+-ND	Fault Protected Differential 4-Channel Multiplexer*	16-Dip	12.27	8.18	5.93
MAX359CWE+-ND	Fault Protected Differential 4-Channel Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX361CSE+-ND	Prec. Quad SPST Analog Switch N/C 3-Ohm Tolerance*	16-SOIC	7.92	5.28	3.82
MAX364CPE+-ND	Prec. Quad SPST Analog Switch N/C 2-Ohm Tolerance*	16-Dip	3.87	2.58	1.87
MAX364CSE+-ND	Prec. Quad SPST Analog Switch N/C 2-Ohm Tolerance*	16-SOIC	3.87	2.58	1.87
MAX365CPE-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance	16-Dip	3.42	2.58	1.85
MAX365CSE+-ND	Prec. Quad SPST Analog Switch N/O 2-Ohm Tolerance*	16-SOIC	3.87	2.58	1.87
MAX366ESA+-ND	Single-Line Circuit Protector*	8-SOIC	5.76	3.84	2.78
MAX378CPE+-ND	High Voltage, Fault Protected Analog Multiplexer*	16-Dip	18.00	12.00	8.70
MAX381CPE+-ND	Precision SPST N.O. Analog Switch* ***NEW!***	16-Dip	4.29	2.86	2.07
MAX391CSE+-ND	Precision, Quad, SPST Analog Four N.C. Switches*	16-SOIC	4.86	3.24	2.34
MAX392CSE+-ND	Precision, Quad, SPST Analog Four N.O. Switches*	16-SOIC	4.86	3.24	2.34
MAX393CSE+-ND	Prec., Quad, SPST Analog Two N.O., Two N.C. Switches*	16-SOIC	4.86	3.24	2.34
MAX394CPP+-ND	Low Voltage Quad SPDT CMOS Analog Switch*	20-Dip	10.29	6.86	4.97
MAX394CWP+-ND	Low Voltage Quad SPDT CMOS Analog Switch*	20-SOIC	13.26	8.84	6.40
MAX396CAI+-ND	Precision, 16-Channel, Low-Voltage, CMOS Analog Mux*	28-SSOP	17.94	11.96	8.67
MAX398ESE+-ND	Precision, 8-Channel CMOS Analog Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX399ESE+-ND	Precision, 4-Channel Dual CMOS Analog Multiplexer*	16-SOIC	12.27	8.18	5.93
MAX1607ESA+-ND	USB Current-Limited Switch*	8-SOIC	2.49	1.66	1.20
MAX1693EUB+-ND	USB Current-Limited Switch*	10-µMAX	2.49	1.66	1.20
MAX4051ACPE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-Dip	4.95	3.30	2.39
MAX4051ACSE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	4.59	3.06	2.21
MAX4051AEEE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	7.11	4.74	3.43
MAX4051CSE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	3.54	2.36	1.71
MAX4052ACEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	5.46	3.64	2.63
MAX4052AEEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	7.11	4.74	3.43
MAX4053ACEE+-ND	Low Voltage, CMOS Three SPDT Analog Switches*	16-QSOP	5.46	3.64	2.63
MAX4053ACSE+-ND	Low Voltage, CMOS Three SPDT Analog Switches*	16-SOIC	4.59	3.06	2.21
MAX4066CPD+-ND	Low-Voltage, Quad, SPST, CMOS Analog Switch*	14-Dip	2.58	1.72	1.24
MAX4311EEE+-ND	Low Power, Single Multichannel Video Mux/Amp*	16-QSOP	8.37	5.58	4.04
MAX4312ESE+-ND	Low Power, Single Multichannel Video Mux/Amp*	16-SOIC	12.63	8.42	6.10
MAX4313ESA+-ND	Low Power, Single Multichannel Video Mux/Amp*	8-SOIC	6.24	4.16	3.01
MAX4503EUK+TCT-ND	Dual Supply SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.38	1.04	.91
MAX4503EUK+TTR-ND	Dual Supply SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1625.00/2,500		
MAX4505EUK+TCT-ND	Fault-Protected Signal-Line Protector* ***NEW!***	SOT-23-5	2.76	2.08	1.82
MAX4505EUK+TTR-ND	Fault-Protected Signal-Line Protector* ***NEW!***	SOT-23-5	3250.00/2,500		
MAX4510EUT+TCT-ND	Rail-to-Rail, Fault Protected SPST Analog Switch* ***NEW!***	SOT-23-6	3.02	2.28	2.00
MAX4510EUT+TTR-ND	Rail-to-Rail, Fault Protected SPST Analog Switch* ***NEW!***	SOT-23-6	3562.50/2,500		
MAX4514EUK+TCT-ND	Low Volt., Low RON, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.38	1.04	.91
MAX4514EUK+TTR-ND	Low Volt., Low RON, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1625.00/2,500		
MAX4515EUK+TCT-ND	Low Volt., Low RON, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.38	1.04	.91
MAX4515EUK+TTR-ND	Low Volt., Low RON, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1625.00/2,500		
MAX4516EUK+TCT-ND	Dual Supply SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1.51	1.14	1.00
MAX4516EUK+TTR-ND	Dual Supply SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	1781.25/2,500		
MAX4520EUT+TCT-ND	Rail-to-Rail, Fault Protected SPST Analog Switch* ***NEW!***	SOT-23-6	3.02	2.28	2.00
MAX4520EUT+TTR-ND	Rail-to-Rail, Fault Protected SPST Analog Switch* ***NEW!***	SOT-23-6	3562.50/2,500		
MAX4526CSA+-ND	Phase-Reversal Analog Switch*	8-SOIC	6.45	4.30	3.11
MAX4526ESA+-ND	Phase-Reversal Analog Switch* ***NEW!***	8-SOIC	7.08	4.72	3.42
MAX4529CUT+TCT-ND	Low Voltage, Bidirectional RF/Video Switch* ***NEW!***	SOT-23-6	2.33	1.76	1.54
MAX4529CUT+TTR-ND	Low Voltage, Bidirectional RF/Video Switch* ***NEW!***	SOT-23-6	2750.00/2,500		
MAX4533CAP+-ND	Quad, Rail-to-Rail, Fault-Protected SPDT Analog Switch*	20-SSOP	9.63	6.42	4.65
MAX4537ESE-ND	Quad, Low-Voltage, SPST Analog Switch	16-SOIC	2.84	2.14	1.26
MAX4542EUA+-ND	Dual SPST NC Low-Voltage Analog Switch*	8-µMAX	1.86	1.24	.89
MAX4544CPA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-Dip	1.77	1.18	.85
MAX4544CSA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-SOIC	1.77	1.18	.85
MAX4544ESA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-SOIC	1.77	1.18	.85
MAX4544EUT+TCT-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	1.67	1.26	1.11
MAX4544EUT+TTR-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	1968.75/2,500		
MAX4545CAP+-ND	Four N.O. SPST Low Voltage RF/Video Switch*	20-SSOP	7.29	4.86	3.52
MAX4549EAX+-ND	Serially Cont., Triple 3x2 Audio/Video Crosspoint Switch*	36-SSOP	8.61	5.74	4.16
MAX4561EUT+TCT-ND	ESD Protected, SPDT CMOS Analog Switch* ***NEW!***	SOT-23-6	2.25	1.70	1.49
MAX4561EUT+TTR-ND	ESD Protected, SPDT CMOS Analog Switch* ***NEW!***	SOT-23-6	2656.25/2,500		
MAX4567CSE+-ND	Dual SPDT Low-Voltage, Bidirectional RF/Video Switch*	16-SOIC	4.98	3.32	2.40
MAX4568EUK+TCT-ND	ESD Protected, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	2.12	1.60	1.40
MAX4568EUK+TTR-ND	ESD Protected, SPST CMOS Analog Switch* ***NEW!***	SOT-23-5	2500.00/2,500		
MAX4582ESE+-ND	Low-Voltage, CMOS Analog Multiplexer/Switch*	16-SOIC	1.95	1.30	.94
MAX4594EXK+TCT-ND	Low-Voltage, Single-Supply CMOS Analog Switch* ***NEW!***	SC70-5	1.51	1.14	1.00
MAX4594EXK+TTR-ND	Low-Voltage, Single-Supply CMOS Analog Switch* ***NEW!***	SC70-5	1781.25/2,500		
MAX4599EXT+TCT-ND	Low-Voltage, Single-Supply SPDT Analog Switch*	SC70-6	1.56	1.18	1.04
MAX4599EXT+TTR-ND	Low-Voltage, Single-Supply SPDT Analog Switch*	SC70-6	1843.75/2,500		
MAX4614CSD+-ND	Quad SPST Low-Volt., High Speed CMOS Analog Switch*	14-SOIC	2.64	1.76	1.27
MAX4617CUE+-ND	8-Channel, High Speed, Low-Voltage, CMOS Analog Mux*	16-TSSOP	3.06	2.04	1.47
MAX4618CSE+-ND	Dual 4-Channel HS, Low-Voltage, CMOS Analog Mux*	16-SOIC	2.70	1.80	1.30
MAX4619CPE+-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch*	16-Dip	2.70	1.80	1.30
MAX4619CSE+-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch*	16-SOIC	2.39	1.80	1.08
MAX4622CSE+-ND	SPDT Dual 5-Ohm Analog Switch*	16-SOIC	5.94	3.96	2.87
MAX4622ESE+-ND	SPDT Dual 5-Ohm Analog Switch*	16-SOIC	6.54	4.36	3.16
MAX4624EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4624EZT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	TSOT-23-6	2.65	2.00	1.75
MAX4624EZT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	TSOT-23-6	3125.00/2,500		
MAX4625EUT-TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4625EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4625EUT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	3125.00/2,500		
MAX4626EUK+TCT-ND	0.5-Ohm, Low-Volt. Single-Supply SPST Analog Switch*	SOT-23-5	2.52	1.90	1.67
MAX4626EUK+TTR-ND	0.5-Ohm, Low-Volt. Single-Supply SPST Analog Switch*	SOT-23-5	2968.75/2,500		

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(Continued)

SWITCHES AND MULTIPLEXERS

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX4634ETB+TCT-ND	4-Ohm, Low-Volt. 4-Channel, CMOS Analog Mux* **NEW!**	10-TDFN	2.89	2.18	1.91
MAX4634ETB+TTR-ND	4-Ohm, Low-Volt. 4-Channel, CMOS Analog Mux* **NEW!**	10-TDFN	3406.25/2,500		
MAX4634EUB+-ND	4-Ohm, Low-Voltage 4-Channel, CMOS Analog Mux*	10-μMAX	3.27	2.18	1.58
MAX4636EUB+-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	10-μMAX	3.12	2.08	1.50
MAX4638EUE+-ND	Single 8:1 Low Voltage Analog Multiplexer* **NEW!**	16-TSSOP	5.19	3.46	2.50
MAX4639EUE+-ND	Dual 4:1 Low Voltage Analog Multiplexer*	16-TSSOP	5.19	3.46	2.50
MAX4641EUA+-ND	HS, Low Volt., Dual SPST CMOS Analog Switch*	8-μMAX	2.25	1.50	1.08
MAX4644EUT+TCT-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	1.83	1.38	1.21
MAX4644EUT+TTR-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	2156.25/2,500		
MAX4645EUK+TCT-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-5	1.67	1.26	1.11
MAX4645EUK+TTR-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-5	1968.75/2,500		
MAX4645EUT+TCT-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-6	1.67	1.26	1.11
MAX4645EUT+TTR-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-6	1968.75/2,500		
MAX4646EUK+TCT-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-5	1.67	1.26	1.11
MAX4646EUK+TTR-ND	2.5-Ohm, Low-Volt. SPST CMOS Analog Switch* **NEW!**	SOT-23-5	1968.75/2,500		
MAX4648EUT-TCT-ND	25-Ohm, SPST Analog Switch	SOT-23-6	3.10	2.34	2.05
MAX4648EUT+TCT-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	3.10	2.34	2.05
MAX4648EUT+TTR-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	3656.25/2,500		
MAX4649EKA+TCT-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	3.39	2.56	2.24
MAX4649EKA+TTR-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	4000.00/2,500		
MAX4659EUA+-ND	High Current, SPDT CMOS Analog Switch*	8-μMAX	4.83	3.22	2.33
MAX4660EUA+-ND	High Current, SPDT CMOS Analog Switch*	8-μMAX-EP	5.58	3.72	2.69
MAX4661CAE+-ND	2.5-Ohm, Quad SPST CMOS Analog Switch*	16-SSOP	11.22	7.48	5.42
MAX4675EUT+TCT-ND	3-Ohm, Single SPST Analog Switch* **NEW!**	SOT-23-6	1.83	1.38	1.21
MAX4675EUT+TTR-ND	3-Ohm, Single SPST Analog Switch* **NEW!**	SOT-23-6	2156.25/2,500		
MAX4678EUE+-ND	Quad SPST CMOS Analog Switch*	16-TSSOP	7.41	4.94	3.58
MAX4684EUB+-ND	0.5-Ohm Low Voltage, Dual SPDT Analog Switch*	10-μMAX	3.96	2.64	1.91
MAX4717EBC+TCT-ND	4.5-Ohm, 300MHz Dual SPDT Analog Switch*	12-UCSP	2.73	2.06	1.81
MAX4717ETB+TCT-ND	4.5-Ohm, 300MHz Dual SPDT Analog Switch* **NEW!**	10-TDFN-EP	2.73	2.06	1.81
MAX4717ETB+TTR-ND	4.5-Ohm, 300MHz Dual SPDT Analog Switch* **NEW!**	10-TDFN-EP	3218.75/2,500		
MAX4685EUB+-ND	0.8-Ohm, Low-Voltage, Dual SPDT Analog Switch*	10-μMAX	3.96	2.64	1.91
MAX4695EUB+-ND	60-Ohm, Low-Voltage, Dual SPDT Analog Switch* **NEW!**	10-μMAX	2.76	1.84	1.33
MAX4717EBC+TTR-ND	300MHz Bandwidth Dual SPDT Analog Switch*	12-UCSP	3218.75/2,500		
MAX4717EUB+-ND	300MHz Bandwidth Dual SPDT Analog Switch*	10-μMAX	3.09	2.06	1.49
MAX4729ELT+TCT-ND	3.5-Ohm Low-Voltage SPDT CMOS Analog Switch*	6-μDFN	1.99	1.50	1.32
MAX4729ELT+TTR-ND	3.5-Ohm Low-Voltage SPDT CMOS Analog Switch*	6-μDFN	2343.75/2,500		
MAX4780ETE+TCT-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	4.48	3.38	2.96
MAX4780ETE+TTR-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	5281.25/2,500		
MAX4781ETE+TCT-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	4.13	3.12	2.73
MAX4781ETE+TTR-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	4875.00/2,500		
MAX4782ETE+TCT-ND	0.7-Ohm CMOS Analog Switch/Multiplexer*	16-TQFN	4.13	3.12	2.73
MAX4782ETE+TTR-ND	0.7-Ohm CMOS Analog Switch/Multiplexer*	16-TQFN	4875.00/2,500		
MAX4785EXK+TCT-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-5	2.39	1.80	1.58
MAX4785EXK+TTR-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-5	2812.50/2,500		
MAX4787EXK+TCT-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-5	2.39	1.80	1.58
MAX4787EXK+TTR-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-5	2812.50/2,500		
MAX4788EXS+TCT-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-4	2.39	1.80	1.58
MAX4788EXS+TTR-ND	0.7-Ohm Current-Limit Switch* **NEW!**	SC70-4	2812.50/2,500		
MAX4789EUK+TCT-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2.39	1.80	1.58
MAX4789EUK+TTR-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2812.50/2,500		
MAX4790EUS+TCT-ND	0.2-Ohm Current-Limit Switch with Auto-Retry* **NEW!**	SOT-143-4	2.39	1.80	1.58
MAX4790EUS+TTR-ND	0.2-Ohm Current-Limit Switch with Auto-Retry* **NEW!**	SOT-143-4	2812.50/2,500		
MAX4791EUK+TCT-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2.39	1.80	1.58
MAX4791EUK+TTR-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2812.50/2,500		
MAX4793EUK+TCT-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2.39	1.80	1.58
MAX4793EUK+TTR-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2812.50/2,500		
MAX4794EUS+TCT-ND	0.2-Ohm Current-Limit Switch with Auto-Retry* **NEW!**	SOT-143-4	2.39	1.80	1.58
MAX4794EUS+TTR-ND	0.2-Ohm Current-Limit Switch with Auto-Retry* **NEW!**	SOT-143-4	2812.50/2,500		
MAX4798EUK+TCT-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2.44	1.84	1.61
MAX4798EUK+TTR-ND	0.2-Ohm Current-Limit Switch* **NEW!**	SOT-23-5	2875.00/2,500		
MAX4896ETP+-ND	8-Channel Relay/Load Driver* **NEW!**	20-TQFN	7.08	4.72	3.42
MAX4914BELT+TCT-ND	0.2-Ohm Current-Limit Switch* **NEW!**	6-μDFN	2.73	2.06	1.81
MAX4914BELT+TTR-ND	0.2-Ohm Current-Limit Switch* **NEW!**	6-μDFN	3218.75/2,500		
MAX4927ETN+-ND	1000 Base-T, ±15kV ESD Protected LAN Switch*	56-TQFN	6.48	4.32	3.13

SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DS3992Z-18P+-ND	2-Channel, Push-Pull CCFL Controller* **NEW!**	16-SOIC	3.30	2.20	1.61
DS4426T+-ND	4-Channel I^2C-Margining IDAC with Tracking* **NEW!**	28-TQFN	3.54	2.36	1.71
ICL7107CPL+-ND	3-1/2 Digit A/D Converter*	40-Dip	8.10	6.48	5.74
ICL7109CPL+-ND	12-Bit ADC with Tri-State Binary Outputs*	40-Dip	13.43	10.74	8.95
ICL7129ACPL+2-ND	4-1/2 Digit ADC Multiplexer Driver*	40-Dip	11.72	9.38	7.81
ICL7135CPI+-ND	4-1/2 Digit ADC with Multiplexed BCD Outputs*	28-Dip	10.55	8.44	7.03
ICL7137CPL+-ND	Low Power, 3-1/2 Digit ADC*	40-Dip	8.10	6.48	5.74
ICL7660CSA+-ND	CMOS Switch Capacitor Voltage Converter*	8-SOIC	3.24	2.16	1.56
ICL7660ESA+-ND	Switched-Capacitor Voltage Converter*	8-SOIC	4.65	3.10	2.24
ICL7662CBA+-ND	CMOS Voltage Converter*	8-SOIC	4.26	2.84	2.05
ICL7662CBD+-ND	CMOS Voltage Converter*	14-SOIC	4.26	2.84	2.05
ICL7662CPA+-ND	CMOS Voltage Converter*	8-Dip	3.87	2.58	1.87
ICL7662EBA+-ND	CMOS Voltage Converter*	8-SOIC	5.34	3.56	2.58
ICL7662EBD+-ND	CMOS Voltage Converter*	14-SOIC	5.34	3.56	2.58
ICL7662EPA+-ND	CMOS Voltage Converter*	8-Dip	5.13	3.42	2.47
ICL7665ACPA+-ND	Under/Over Voltage Detector*	8-Dip	5.58	3.72	2.69
ICL7665ACSA+-ND	Under/Over Voltage Detector*	8-SOIC	6.15	4.10	2.97
ICL7665AESA+-ND	Under/Over Voltage Detector*	8-SOIC	6.81	4.54	3.29
ICM7211AMIQH+D-ND	4-Digit Display Decoder/Driver* **NEW!**	44-PLCC	8.73	5.82	4.21
ICM7212AMIPL+-ND	4-Digit Display Decoder/Driver*	40-Dip	6.51	4.34	3.14
ICM7217AIPI+-ND	4-Digit Presettable Up/Down Counter*	28-Dip	15.69	10.46	7.58
ICM7217CIPI-ND	4-Digit Presettable Up/Down Counter	28-Dip	13.86	10.46	6.15
ICM7218AIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	13.29	8.86	6.42
ICM7218BIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	13.29	8.86	6.42
ICM7218CIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	13.29	8.86	6.42
ICM7224IPL+-ND	4-1/2 Digit Counter/Decoder/Driver*	40-Dip	20.64	13.76	9.97
ICM7240IPE+-ND	Fixed Timer/Counter* **NEW!**	16-Dip	6.12	4.08	2.95
ICM7242IPA+-ND	Fixed Timer/Counter*	8-Dip	4.29	2.86	2.07
ICM7250IPE+-ND	Programmable RC Timer*	16-Dip	6.12	4.08	2.95
ICM7555IPA+-ND	CMOS General Purpose Timer*	8-Dip	2.82	1.88	1.36
ICM7555ISA+-ND	CMOS General Purpose Timer*	8-SOIC	2.49	1.66	1.20
ICM7556IPD+-ND	Dual General Purpose RC Timer*	14-Dip	4.26	2.84	2.05
ICM7556ISD+-ND	Dual General Purpose RC Timer*	14-SOIC	3.84	2.56	1.85
MAX274BCWI+-ND	8th-Order Analog Filter*	28-SOIC	10.27	8.16	6.43
MAX274BCWI-ND	8th-Order Analog Filter	28-SOIC	13.62	10.28	6.59

SPECIALIZED INTEGRATED CIRCUITS

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX275BCPP+-ND	4th-Order Analog Filter*	20-Dip	6.41	5.09	4.02
MAX275BCWP+-ND	4th-Order Analog Filter*	20-SOIC	6.41	5.09	4.02
MAX275BEWP+-ND	4th-Order Analog Filter*	20-SOIC	8.33	6.62	5.20
MAX280CWE+-ND	5th-Order Zero-Error, Butterworth Switched Cap Lowpass Filter*	16-SOIC	8.67	6.88	5.43
MAX281ACPA+-ND	5th-Order Zero Error, Bessel Lowpass Filter*	8-Dip	10.57	8.40	6.62
MAX281ACWE-ND	5th-Order Zero Error, Bessel Lowpass Filter	16-SOIC	14.02	10.58	6.79
MAX281AEWE+-ND	5th-Order Zero Error, Bessel Lowpass Filter*	16-SOIC	13.75	10.92	8.60
MAX291CPA+-ND	8th-Order, Lowpass, Switched-Capacitor Filter*	8-Dip	6.13	4.87	3.84
MAX291EPA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-Dip	7.97	6.33	4.99
MAX291ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	7.97	6.33	4.99
MAX291CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.13	4.87	3.84
MAX291CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.43	5.11	4.03
MAX291EWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	8.37	6.65	5.23
MAX292CPA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-Dip	6.13	4.87	3.84
MAX292CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.13	4.87	3.84
MAX292CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.43	5.11	4.03
MAX292EWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	8.37	6.65	5.23
MAX293CPA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-Dip	6.51	5.16	4.05
MAX293CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.51	5.16	4.05
MAX293CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.82	5.42	4.28
MAX293EPA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-Dip	8.45	6.71	5.29
MAX293EWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	8.88	7.04	5.55
MAX295CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.13	4.87	3.84
MAX295CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.43	5.10	4.03
MAX295ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	7.96	6.33	4.99
MAX295EWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	8.37	6.65	5.23
MAX296CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.13	4.87	3.84
MAX296CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.43	5.10	4.03
MAX296ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	7.97	6.33	4.99
MAX296EWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	8.37	6.65	5.23
MAX297CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	6.51	5.16	4.05
MAX297CWE+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	16-SOIC	6.82	5.42	4.28
MAX297ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	8.45	6.71	5.29
MAX542AESD+-ND	16-Bit, 5V Serial-Input, Voltage-Output DAC*	14-SOIC	53.87	42.78	31.70
MAX674ESA+-ND	10V Precision Voltage Reference*	8-SOIC	8.09	6.47	5.39
MAX675ESA+-ND	5V Precision Voltage Reference*	8-SOIC	8.09	6.47	5.39
MAX873AESA+-ND	2.5V, Low Power, Low Drift, Prec. Voltage Reference*	8-SOIC	13.38	10.63	8.37
MAX873BESA+-ND	2.5V, Low Power, Low Drift, Prec. Voltage Reference*	8-SOIC	7.36	5.85	4.60
MAX875BESA+-ND	5V, Low Power, Precision Voltage Reference*	8-SOIC	7.36	5.85	4.60
MAX1406CPE+-ND	230kbps, 3 Transmitters/3 Receivers, ESD Protected*	16-Dip	3.48	2.32	1.68
MAX1406CWE+-ND	230kbps, 3 Transmitters/3 Receivers, ESD Protected*	16-SOIC	3.48	2.32	1.68
MAX1452AAE+-ND	Precision Sensor Signal Conditioner*	16-SSOP	9.73	—	—
MAX1470EUI+-ND	315MHz ASK Superheterodyne Receiver*	28-TSSOP	5.55	3.70	2.68
MAX1472AKA+TCT-ND	300MHz/450MHz Low Power, ASK Transmitter*	SOT-23-8	3.13	2.36	2.07
MAX1472AKA+TTR-ND	300MHz/450MHz Low Power, ASK Transmitter*	SOT-23-8	3687.50/2,500		
MAX1473EUI+-ND	315MHz/433MHz ASK Superheterodyne Receiver*	28-TSSOP	6.18	4.12	2.98
MAX1474AXT+TCT-ND	Electronically Trimmable Capacitor (FLECAP)* **NEW!**	SC70-6	2.12	1.60	1.40
MAX1474AXT+TTR-ND	Electronically Trimmable Capacitor (FLECAP)* **NEW!**	SC70-6	2500.00/2,500		
MAX1479ATE+-ND	300MHz/450MHz Low Power, ASK/FSK Transmitter*	16-TQFN-EP	3.57	2.38	1.72
MAX1585ETJ+-ND	5-Channel Slim DSC Power Supply*	32-TQFN	8.01	5.34	3.87
MAX1856EUB+-ND	Wide Input Range, Sync. PWM SLIC Power Supply*	10-μMAX	4.83	3.22	2.33
MAX1951ESA+-ND	2A PWM Step-Down DC/DC Regulator*	8-SOIC	4.77	3.18	2.30
MAX1999EEI+-ND	High Efficiency, Quad Output, Main Pwr Supply Cont.*	28-QSOP	14.25	9.50	6.88
MAX2016ETI+-ND	Dual Logarithmic Detector/Controller*	28-TQFN-EP	14.83	13.30	—
MAX2021ETX+-ND	Direct Up/Down Conversion Quad 750MHz~1200MHz Mod/Demod*	36-TQFN-EP	16.14	10.76	7.80
MAX2022ETX+-ND	Direct Up Conversion 1500MHz~2500MHz Quad Modulator*	36-TQFN-EP	16.14	10.76	7.80
MAX2027EUP+D-ND	IF Digitally Controlled Variable-Gain Amp*	28-TSSOP	15.36	10.24	7.42
MAX2059ETL+-ND	1700MHz~2200MHz High Linearity, SPI Controlled DVGA with Integrated Loopback Mixer*	40-TQFN-EP	25.80	17.20	12.47
MAX2208EBS+TCT-ND	25dB RF Power Detector* **NEW!**	2x2 UCSP	1.09	.82	.72
MAX2208EBS+TTR-ND	25dB RF Power Detector* **NEW!**	2x2 UCSP	1281.25/2,500		
MAX3001EEUP+-ND	1.2V to 5.5V, 4Mbps, 8-Channel Level Translator*	20-TSSOP	4.47	2.98	2.16
MAX3002EUP+-ND	1.2V to 5.5V, 20Mbps, 8-Channel Level Translator*	20-TSSOP	4.47	2.98	2.16
MAX3202EETT+TCT-ND	Low Capacitance 2-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	.90	.68	.60
MAX3202EETT+TTR-ND	Low Capacitance 2-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	1062.50/2,500		
MAX3203EETT+TCT-ND	Low Capacitance 3-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	1.35	1.02	.90
MAX3203EETT+TTR-ND	Low Capacitance 3-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	1593.75/2,500		
MAX3204EETT+TCT-ND	Low Capacitance 4-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	1.80	1.36	1.19
MAX3204EETT+TTR-ND	Low Capacitance 4-Ch. ESD Protection Array* **NEW!**	6-TDFN-EP	2125.00/2,500		
MAX3207EAUT+TCT-ND	2-Ch. High Speed Diff. ESD Protection Array* **NEW!**	SOT-23-6	.90	.68	.60
MAX3207EAUT+TTR-ND	2-Ch. High Speed Diff. ESD Protection Array* **NEW!**	SOT-23-6	1062.50/2,500		
MAX3371EXT+TCT-ND	1μA, 2Mbps, Low Voltage Level Translator*	SC70-6	2.20	1.66	1.46
MAX3371EXT+TTR-ND	1μA, 2Mbps, Low Voltage Level Translator*	SC70-6	2593.75/2,500		
MAX3378EEUD+-ND	1μA, 16Mbps, Low Voltage Level Tranlastor*	14-TSSOP	3.33	2.22	1.60
MAX3391EEUD+-ND	1uA, 16Mbps, Low Voltage Level Tranlastor*	14-TSSOP	3.33	2.22	1.60
MAX3535ECWI+-ND	3V to 5V, RS-485/RS-422 Transceiver*	28-SOIC	14.88	9.92	7.19
MAX3646ETG+-ND	155Mbps to 622Mbps SFF/SFP Laser Driver*	24-TQFN	6.39	4.26	3.08
MAX3656ETG+-ND	155Mbps to 2.5Gbps Burst-Mode Laser Driver*	24-TQFN	1.50	1.25	—
MAX3656ETG+TCT-ND	155Mbps to 2.5Gbps Burst-Mode Laser Driver*	24-TQFN	2.84	2.14	1.88
MAX3656ETG+TTR-ND	155Mbps to 2.5Gbps Burst-Mode Laser Driver*	24-TQFN	3343.75/2,500		
MAX3668EHJ+-ND	3.3V, 622Mbps SDH/Sonet Laser Driver*	32-TQFP	15.15	10.10	7.32
MAX3735AETG+-ND	2.7Gbps, Low Power SFP Laser Driver*	24-TQFN-EP	1.50	1.25	—
MAX3738ETG+-ND	155Mbps to 4.25Gbps SFF/SFP Laser Driver*	24-TQFN-EP	1.50	1.25	—
MAX3740AETG+-ND	3.2Gbps SFP VCSEL Driver*	24-TQFN	12.87	8.58	6.22
MAX3747AEUB+-ND	155Mbps to 3.2Gbps, Low Power Amp*	10-μMAX	1.50	1.25	—
MAX3766EEP+-ND	622Mbps LAN/WAN Laser Driver*	20-QSOP	11.70	7.80	5.65
MAX3748HETE#G16-ND	155Mbps to 4.25Gbps Limiting Amp* **NEW!**	16-TQFN-EP	1.50	—	—
MAX3814CHJ+-ND	DVI/HDMI TMDS Cable and Equalizer/Driver* **NEW!**	32-TQFP	5.28	3.52	2.55
MAX3815CCM+D-ND	TMDS Digital Video Equalizer*	48-TQFP-EP	13.44	8.96	6.49
MAX3845UCQ+D-ND	DVI/HDMI 2:4 TMDS Switch and Cable Driver* **NEW!**	100-TQFP-EP	26.85	17.90	12.97
MAX3869EHJ+-ND	+3.3V, 2.5Gbps SDH/SONET Laser Driver*	32-TQFP	26.79	17.86	12.94
MAX4000EUA+-ND	2.5GHz, 45dB RF-Detecting Controller*	8-μMAX	3.84	2.56	1.85
MAX4002EUA+-ND	2.5GHz, 45dB RF Detecting Controller*	8-MSOP	3.84	2.56	1.85
MAX4003EBL+TCT-ND	100MHz~2500MHz 45dB RF Detector* **NEW!**	8-UCSP	2.46	1.86	1.63
MAX4003EBL+TTR-ND	100MHz~2500MHz 45dB RF Detector* **NEW!**	8-UCSP	2906.25/2,500		
MAX4003EUA+-ND	100MHz~2500MHz 45dB RF Detector*	8-MSOP	2.79	1.86	1.34
MAX4016ESA+-ND	High Speed, Single Op Amp with Rail-to-Rail Output*	8-SOIC	3.30	2.20	1.59
MAX4017ESA+-ND	High Speed, Single Buffer with Rail-to-Rail Output*	8-SOIC	3.75	2.50	1.81
MAX4018EEE+-ND	High Speed, Triple Op Amp with Rail-to-Rail Output*	16-QSOP	5.40	3.60	2.61
MAX4018ESD+-ND	High Speed, Triple Op Amp with Rail-to-Rail Output*	14-SOIC	5.40	3.60	2.61
MAX4020ESD+-ND	High Speed, Quad Op Amp with Rail-to-Rail Output*	14-SOIC	6.15	4.10	2.97

* RoHS Compliant

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(Continued)

MAXIM INNOVATION DELIVERED Digi-Reel® *(Cont.)* SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX4028EUE+TCT-ND	Video Multiplexer Amp with Input Clamps*	16-TSSOP	5.19	3.92	3.43
MAX4028EUE+TTR-ND	Video Multiplexer Amp with Input Clamps*	16-TSSOP	6125.00/2,500		
MAX4029EUP+TCT-ND	Video Multiplexer Amp with Input Clamps*	20-TSSOP	6.20	4.68	4.10
MAX4032EUT+TCT-ND	5V, 6dB Video Buffer w/Low Power Shutdown* ***NEW!***	SOT-23-6	1.22	.92	.81
MAX4032EUT+TTR-ND	5V, 6dB Video Buffer w/Low Power Shutdown* ***NEW!***	SOT-23-6	1437.50/2,500		
MAX4090AAUT+TCT-ND	3V/5V, 6dB Video Buffer* ***NEW!***	SOT-23-6	1.22	.92	.81
MAX4090AAUT+TTR-ND	3V/5V, 6dB Video Buffer* ***NEW!***	SOT-23-6	1437.50/2,500		
MAX4090AAXT+TCT-ND	3V/5V, 6dB Video Buffer*	SC70-6	1.22	.92	.81
MAX4090AAXT+TTR-ND	3V/5V, 6dB Video Buffer*	SC70-6	1437.50/2,500		
MAX4090EUT+TCT-ND	3V/5V, 6dB Video Buffer* ***NEW!***	SOT-23-6	1.22	.92	.81
MAX4090EUT+TTR-ND	3V/5V, 6dB Video Buffer* ***NEW!***	SOT-23-6	1437.50/2,500		
MAX4271ESA+-ND	3V~12V Current-Limiting Hot Swap Controller*	8-SOIC	5.22	3.48	2.52
MAX4272ESA+-ND	3V~12V Current-Limiting Hot Swap Controller*	8-SOIC	5.49	3.66	2.65
MAX4840AEXT+TCT-ND	Over-Voltage Protection Controller* ***NEW!***	SC70-6	2.12	1.60	1.40
MAX4840AEXT+TTR-ND	Over-Voltage Protection Controller* ***NEW!***	SC70-6	2500.00/2,500		
MAX4840EXT+TCT-ND	Over-Voltage Protection Controller* ***NEW!***	SC70-6	2.12	1.60	1.40
MAX4840EXT+TTR-ND	Over-Voltage Protection Controller* ***NEW!***	SC70-6	2500.00/2,500		
MAX4845ELT+TCT-ND	Over-Voltage Protection Controller* ***NEW!***	6-µDFN	2.12	1.60	1.40
MAX4845ELT+TTR-ND	Over-Voltage Protection Controller* ***NEW!***	6-µDFN	2500.00/2,500		
MAX4959ELB+TCT-ND	High-Voltage OVP with Battery Switchover* ***NEW!***	10-µDFN	2.89	2.18	1.91
MAX4959ELB+TTR-ND	High-Voltage OVP with Battery Switchover* ***NEW!***	10-µDFN	3406.25/2,500		
MAX4990ETD+TCT-ND	ESD Protected EL Lamp Driver* ***NEW!***	14-TDFN	3.02	2.28	2.00
MAX4990ETD+TTR-ND	ESD Protected EL Lamp Driver* ***NEW!***	14-TDFN	3562.50/2,500		
MAX5430BEKA+TCT-ND	15V Digitally Prog. Precision Voltage Divider for PGAs* ***NEW!***	SOT23-8	4.40	3.32	2.91
MAX5430BEKA+TTR-ND	15V Digitally Prog. Precision Voltage Divider for PGAs* ***NEW!***	SOT23-8	5187.50/2,500		
MAX5431AEUB+-ND	15V Digitally Prog. Precision Voltage Divider for PGAs	10-µMAX	8.11	6.86	6.60
MAX5932ESA+-ND	Positive High-Voltage, Hot-Swap Controller*	8-SOIC	5.28	3.52	2.55
MAX5947BESA+-ND	Positive High-Voltage, Hot-Swap Controller*	8-SOIC	5.76	3.84	2.78
MAX5948AESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.59	3.06	2.21
MAX5948BESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.59	3.06	2.21
MAX5949AESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	5.04	3.36	2.43
MAX5949BESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	5.04	3.36	2.43
MAX5953AUTM+-ND	IEEE 802.3af PD Interface and PWM Controller*	48-TQFN	9.87	6.58	4.77
MAX5952AEAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	25.68	17.12	12.41
MAX5952AUAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	24.42	16.28	11.80
MAX5957AETN+-ND	Triple PCI Express, Hot-Plug Controller*	56-TQFN	17.04	11.36	8.23
MAX5958AETN+-ND	Triple PCI Express, Hot-Plug Controller*	56-TQFN	17.04	11.36	8.23
MAX5959AECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	20.43	13.62	9.87
MAX5959LECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	20.43	13.62	9.87
MAX5960AECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	20.43	13.62	9.87
MAX5960LECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	20.43	13.62	9.87
MAX6369KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2750.00/2,500		
MAX6373KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6373KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2750.00/2,500		
MAX6509HAUK+TCT-ND	Resistor Programmable Temperature Switch*	SOT-23-5	2.41	1.82	1.60
MAX6509HAUK+TTR-ND	Resistor Programmable Temperature Switch*	SOT-23-5	2843.75/2,500		
MAX6649MUA+-ND	Precision SMBus-Compatible Remote/Local Sensor*	8-µMAX	7.65	5.10	3.69
MAX6650EUB+-ND	Fan-Speed Regulator/Monitor with SMBus/I^{2}C Compatible Interface*	10-µMAX	7.95	5.30	3.84
MAX6650EUB+TCT-ND	Fan-Speed Regulator/Monitor with SMBus/I^{2}C Compatible Interface*	10-MSOP	7.21	5.44	4.76
MAX6650EUB+TTR-ND	Fan-Speed Regulator/Monitor with SMBus/I^{2}C Compatible Interface*	10-MSOP	8500.00/2,500		
MAX6651EEE+-ND	Fan-Speed Reg./Monitor w/SMBus/I^{2}C Compatible Interface*	16-QSOP	8.82	5.88	4.26
MAX6651EEE+TCT-ND	Fan-Speed Reg./Monitor w/SMBus/I^{2}C Compatible Interface*	16-QSOP	7.98	6.02	5.27
MAX6651EEE+TTR-ND	Fan-Speed Reg./Monitor w/SMBus/I^{2}C Compatible Interface*	16-QSOP	9406.25/2,500		
MAX6674ISA+-ND	Thermocouple-to-Digital Converter*	8-SOIC	15.15	10.10	7.32
MAX6675ISA+-ND	Cold-Junction-Compensated K-Thermocouple-to-Digital Converter*	8-SOIC	15.69	10.46	7.58
MAX6675ISA+TCT-ND	Cold-Junction-Compensated K-Thermocouple-to-Digital Converter*	8-SOIC	14.05	10.60	9.28
MAX6675ISA+TTR-ND	Cold-Junction-Compensated K-Thermocouple-to-Digital Converter*	8-SOIC	16562.50/2,500		
MAX6684ESA+-ND	Fan-Failure Detector with Integrated Power Switch*	8-SOIC	3.99	2.66	1.92
MAX6684ESA+TCT-ND	Fan-Failure Detector with Integrated Power Switch*	8-SOIC	3.71	2.80	2.45
MAX6684ESA+TTR-ND	Fan-Failure Detector with Integrated Power Switch*	8-SOIC	4375.00/2,500		
MAX6791TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6816EUS+TCT-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143-4	2.36	1.78	1.56
MAX6816EUS+TTR-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143-4	2781.25/2,500		
MAX6817EUT+TCT-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	3.52	2.66	2.33
MAX6817EUT+TTR-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	4156.25/2,500		
MAX6818EAP+-ND	Octal, CMOS Switch Debouncer, ESD Protected*	20-SSOP	8.43	5.62	4.07
MAX6819UT+TCT-ND	Power Supply Sequencer*	SOT-23-6	4.37	3.30	2.89
MAX6819UT+TTR-ND	Power Supply Sequencer*	SOT-23-6	5156.25/2,500		
MAX6820UT+TCT-ND	Power Supply Sequencer*	SOT-23-6	3.58	2.70	2.37
MAX6820UT+TTR-ND	Power Supply Sequencer*	SOT-23-6	4218.75/2,500		
MAX6951CEE+-ND	Serial Interface 8-Digit LED Display Driver*	16-QSOP-EP	14.37	9.58	6.94
MAX6951EEE+-ND	Serial Interface 8-Digit LED Display Driver*	16-QSOP-EP	18.21	12.14	8.80
MAX6954AAX+-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	27.21	18.14	13.15
MAX6954APL-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6955AAX+-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	27.21	18.14	13.15
MAX6956AAI+-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander*	28-SSOP	9.24	6.16	4.46
MAX6956AAX+-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander*	36-SSOP	11.43	7.62	5.52
MAX6957AAI+-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander*	28-SSOP	9.24	6.16	4.46
MAX6957AAX+-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander*	36-SSOP	11.43	7.62	5.52
MAX6974ATL+-ND	24-Output PWM LED Drivers*	48-TQFN-EP	28.83	19.22	13.93
MAX6975ATL+-ND	24-Output PWM LED Drivers*	48-TQFN-EP	28.83	19.22	13.93
MAX7032ATJ+-ND	Low Cost, Programmable, ASK/FSK Transceiver*	32-TQFN-EP	10.80	7.20	5.22
MAX7042ATJ+-ND	Low Power, FSK Superheterodyne Receiver*	32-TQFN-EP	6.48	4.32	3.13
MAX7044AKA+TCT-ND	High Efficiency, ASK Transmitter*	SOT-23-8	3.45	2.60	2.28
MAX7044AKA+TTR-ND	High Efficiency, ASK Transmitter*	SOT-23-8	4062.50/2,500		
MAX7219CNG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	12.24	8.16	5.91
MAX7219CWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	12.24	8.16	5.91
MAX7219ENG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	15.90	10.60	7.68
MAX7219EWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	15.90	10.60	7.68
MAX7221CNG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-Dip	12.24	8.16	5.91
MAX7221CWG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-SOIC	12.24	8.16	5.91
MAX7221EWG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-SOIC	19.11	12.74	9.23
MAX7301AAI+-ND	4-Wire Interfaced, 2.5V~5.5V, 20-Port I/O Expander*	28-SSOP	7.98	5.32	3.85
MAX7301AAX+-ND	4-Wire Interfaced, 2.5V~5.5V, 28-Port I/O Expander*	36-SSOP	10.05	6.70	4.85
MAX7301ATL+-ND	4-Wire Interfaced, 2.5V~5.5V, 28-Port I/O Expander*	40-TQFN	10.65	7.10	5.14
MAX7312ATG+-ND	2-Wire Interfaced, 2V~5.5V, 16-Port I/O Expander* ***NEW!***	24-TQFN	4.77	3.18	2.30
MAX7313AEG+-ND	16-Port I/O Expander* ***NEW!***	24-QSOP	4.77	3.18	2.30
MAX7375AXR425+TCT-ND	2.7V~5.5V Silicon Oscillator* ***NEW!***	SC70-3	1.25	.94	.83
MAX7375AXR425+TTR-ND	2.7V~5.5V Silicon Oscillator* ***NEW!***	SC70-3	1468.75/2,500		
MAX7400CSA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	4.51	3.57	2.82
MAX7400ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	5.18	4.11	3.23
MAX7401ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	5.18	4.11	3.23
MAX7403ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	5.18	4.11	3.23
MAX7408EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7409EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7410EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7411EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7412EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7413EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7414EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	3.55	2.81	2.22
MAX7419EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7420EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7421EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7422EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7423EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7424CUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	4.65	3.69	2.98
MAX7424EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7425CUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	4.65	3.69	2.98
MAX7425EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	5.85	4.64	3.75
MAX7426EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	2.47	1.97	1.54
MAX7427EUA+-ND	5th-Order, Lowpass, Switched-Cap. Filter*	8-µMAX	2.47	1.97	1.54
MAX7456EUI+-ND	Single-Channel Monochrome On-Screen Display*	28-TSSOP	17.69	15.04	12.79
MAX7456EVKIT+-ND	Evaluation Kit for MAX7456* ***NEW!***	—	106.25	—	—
MAX7480ESA+-ND	8th-Order, Lowpass, Switched-Cap. Filter*	8-SOIC	4.51	3.57	2.82
MAX7490EEE+-ND	Dual, Universal Switched-Capacitor Filter*	16-QSOP	6.05	4.80	3.88
MAX7491EEE+-ND	Dual, Universal Switched-Capacitor Filter*	16-QSOP	6.05	4.80	3.88
MXB7846EEE+-ND	4-Wire Touch-Screen Controller*	16-QSOP	3.78	2.52	2.25
MAX8069ESA+-ND	Low-Voltage Reference*	8-SOIC	1.14	1.03	—
MAX8211CPA+-ND	Programmable Voltage Detector, Non-Inverting*	8-Dip	3.90	2.60	1.88
MAX8211CSA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	3.96	2.64	1.91
MAX8211ESA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	5.97	3.98	2.88
MAX8212CPA+-ND	Programmable Voltage Detector, Inverting*	8-Dip	3.90	2.60	1.88
MAX8212CSA+-ND	Programmable Voltage Detector, Inverting*	8-SOIC	3.42	2.28	1.65
MAX8213AESE+-ND	Microprocessor Voltage Monitor* ***NEW!***	16-SOIC	10.59	7.06	5.11
MAX8215CSD+-ND	Microprocessor Voltage Monitor*	14-SOIC	5.61	3.74	2.71
MAX8645XETI+-ND	1x/1.5x/2x White LED Charge Pump*	28-TQFN-EP	6.86	5.18	3.75
MAX8645YETI+-ND	1x/1.5x/2x White LED Charge Pump*	28-TQFN-EP	6.86	5.18	3.75
MAX8647ETE+-ND	Ultra-Efficient Charge Pump for 6 White/RGB LEDs*	16-TQFN-EP	5.52	3.68	2.66
MAX8648ETE+-ND	Ultra-Efficient Charge Pump for 6 White/RGB LEDs*	16-TQFN-EP	4.24	3.20	2.32
MAX8678ETE+-ND	White LED Charge Pump with 1.1W Audio Amp*	16-TQFN	4.13	3.12	2.26
MAX8790ETP+-ND	Six-String White LED Driver*	20-TQFN	7.11	4.74	3.43
MAX9142ESA+-ND	Low Pwr, Rail-to-Rail, Dual High-Speed Comparator*	8-SOIC	2.34	1.56	1.13
MAX9174EUB+-ND	LVDS 1:2 Splitter* ***NEW!***	10-µMAX	7.50	5.00	3.62
MAX9205EAI+-ND	10-Bit Bus LVDS Serializer*	28-SSOP	12.00	8.00	5.80
MAX9206EAI+-ND	10-Bit Bus LVDS Deserializer*	28-SSOP	12.00	8.00	5.80
MAX9511CEG+TCT-ND	Complete VGA Interface with EMI Suppression*	24-QSOP	2.68	2.02	1.77
MAX9512ATE+TCT-ND	Video Filter Amp with SmartSleep*	16-TQFN	1.67	1.26	1.11
MAX9512ATE+TTR-ND	Video Filter Amp with SmartSleep*	16-TQFN	1968.75/2,500		
MAX9730ETI+-ND	2.4W, Single Supply, Class G Power Amp*	28-TQFN-EP	1.83	1.22	.88
MAX9940AXK+TCT-ND	Signal-Line Overvoltage Protector* ***NEW!***	SC70-5	1.22	.92	.81
MAX9940AXK+TTR-ND	Signal-Line Overvoltage Protector* ***NEW!***	SC70-5	1437.50/2,500		
MAX11800ETC+-ND	LP Touch-Screen Controller with I^{2}C/SPI Interface* ***NEW!***	12-TQFN	3.07	2.44	1.97
MAX11801ETC+-ND	LP Touch-Screen Controller with I^{2}C/SPI Interface* ***NEW!***	12-TQFN	2.97	2.36	1.90
MAX11802ETC+-ND	LP Touch-Screen Controller with I^{2}C/SPI Interface* ***NEW!***	12-TQFN	2.46	1.95	1.58
MAX11803ETC+-ND	LP Touch-Screen Controller with I^{2}C/SPI Interface* ***NEW!***	12-TQFN	2.38	1.89	1.53
MAX13046EELT+TCT-ND	Single Bidirectional Low Level Translator* ***NEW!***	6-µDFN	2.73	2.06	1.81
MAX13046EELT+TTR-ND	Single Bidirectional Low Level Translator* ***NEW!***	6-µDFN	3218.75/2,500		
MAX13202EALT+TCT-ND	2-Channel ESD Protection Diode Array* ***NEW!***	6-µDFN	.87	.66	.58
MAX13202EALT+TTR-ND	2-Channel ESD Protection Diode Array* ***NEW!***	6-µDFN	1031.25/2,500		
MAX13208EALB+TCT-ND	8-Channel ESD Protection Diode Array* ***NEW!***	10-µDFN	2.44	1.84	1.61
MAX13208EALB+TTR-ND	8-Channel ESD Protection Diode Array* ***NEW!***	10-µDFN	2875.00/2,500		
MAX14527ETA+TCT-ND	Adjustable Overvoltage Protection IC* ***NEW!***	8-TDFN	2.73	2.06	1.81
MAX14527ETA+TTR-ND	Adjustable Overvoltage Protection IC* ***NEW!***	8-TDFN	3218.75/2,500		
MAX14528ETA+TCT-ND	Adjustable Overvoltage Protection IC* ***NEW!***	8-TDFN	2.73	2.06	1.81
MAX14528ETA+TTR-ND	Adjustable Overvoltage Protection IC* ***NEW!***	8-TDFN	3218.75/2,500		
MAX14541EAXK+TCT-ND	3-Channel ESD Protection Diode Array* ***NEW!***	SC70-5	1.17	.88	.77
MAX14541EAXK+TTR-ND	3-Channel ESD Protection Diode Array* ***NEW!***	SC70-5	1375.00/2,500		
MAX15020ATP+-ND	2A, 40V Step-Down DC/DC Converter*	20-TQFN-EP	5.67	3.78	2.74
MAX15500GTJ+-ND	4.096V, Analog Current/Voltage-Output Conditioner* ***NEW!***	32-TQFN	4.49	3.98	3.82
MAX15501GTJ+-ND	2.5V, Analog Current/Voltage-Output Conditioner* ***NEW!***	32-TQFN	4.49	3.98	3.82
MAX16029TG+-ND	Quad-Volt. Capacitor-Adjustable Supervisory Circuit*	24-TQFN	7.92	5.28	3.82
MAX16800ATE+-ND	High-Voltage Linear High-Brightness LED Driver*	16-TQFN-EP	3.81	2.54	1.84
MAX16801AEUA+-ND	Offline and DC/DC PWM Cont. for High-Brightness LED Driver*	8-MSOP	2.55	1.70	1.23
MAX16801BEUA+-ND	Offline and DC/DC PWM Cont. for High-Brightness LED Driver*	8-MSOP	2.55	1.70	1.23
MAX16802AEUA+-ND	Offline and DC/DC PWM Cont. for High-Brightness LED Driver*	8-MSOP	2.55	1.70	1.23
MAX16802BEUA+-ND	Offline and DC/DC PWM Cont. for High-Brightness LED Dvr.*	8-MSOP	2.55	1.70	1.23
MAX16803ATE+-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN	3.96	2.64	1.91

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(Continued)

SPECIALIZED INTEGRATED CIRCUITS

(Cont.)

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX16803ATE+TCT-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN	3.68	2.78	2.44
MAX16803ATE+TTR-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN	4343.75/2,500		
MAX16803EVKIT+-ND	Evaluation Kit for MAX16803*	—	31.25	—	—
MAX16807AUI+-ND	Integrated 8-Channel LED Driver with Switch Mode Boost and SEPIC Controller*	28-TSSOP	7.86	5.24	3.79
MAX16812ATI+-ND	Integrated High-Voltage LED Driver with Analog and PWM Dimming Control*	28-TQFN	8.10	5.40	3.91
MAX16818ATI+-ND	1.5MHz, 30A High Efficiency, LED Driver with Rapid LED Current Pulsing*	28-TQFN	6.75	4.50	3.26
MAX16818ETI+-ND	1.5MHz, 30A High Efficiency, LED Driver with Rapid LED Current Pulsing*	28-TQFN	5.85	3.90	2.82
MAX16819ATT+TCT-ND	2MHz High Brightness LED Driver* ***NEW!***	6-TDFN	1.99	1.50	1.32
MAX16819ATT+TTR-ND	2MHz High Brightness LED Driver* ***NEW!***	6-TDFN	2343.75/2,500		
MAX16820ATT+TCT-ND	2MHz High Brightness LED Driver* ***NEW!***	6-TDFN	1.99	1.50	1.32
MAX16820ATT+TTR-ND	2MHz High Brightness LED Driver* ***NEW!***	6-TDFN	2343.75/2,500		
MAX16823ATE+-ND	High-Volt., 3-Ch. Linear High-Brightness LED Driver*	16-TQFN	4.02	2.68	1.94
MAX16823AUE+-ND	High-Volt., 3-Ch. Linear High-Brightness LED Driver*	16-TSSOP	3.93	2.62	1.89
MAX16828ATT+TCT-ND	High Voltage 35mA~200mA Adj. Linear LED Driver* ***NEW!***	6-TDFN	2.01	1.52	1.33
MAX16828ATT+TTR-ND	High Voltage 35mA~200mA Adj. Linear LED Driver* ***NEW!***	6-TDFN	2375.00/2,500		
MAX16831ATJ+-ND	High-Voltage, High-Power LED Driver*	32-TQFN	9.00	6.00	4.35
MAX532ACPE+-ND	12-Bit, Dual Serial Input Voltage Output MDAC*	16-Dip	23.66	18.79	14.80
MAX532ACWE+-ND	12-Bit, Dual Serial Input Voltage Output MDAC*	16-SOIC	23.66	18.79	14.80
MX574AJN+-ND	Industry-Standard, Complete 12-Bit ADC*	28-Dip	29.07	23.09	17.10
MAX5304CUA+-ND	10-Bit Low Voltage Output DAC*	8-µMAX	3.60	2.86	2.32
MAX5307EUE+-ND	12-Bit, Low Power Voltage Octal DAC*	16-TSSOP	19.99	15.49	12.39
MX7224KCWN+-ND	CMOS 8-Bit DAC with Output Amp*	18-SOIC	5.93	4.74	3.95
MX7226KN+-ND	CMOS Quad, 8-Bit DAC with Voltage Output Amp*	20-Dip	22.13	17.70	14.75
MX7528JCWP+-ND	CMOS Dual D/A Converter 8-Bit Buffered*	20-SOIC	7.11	5.69	4.74
MX7533JCWE-ND	CMOS 10-Bit D/A Converter	16-SOIC	6.60	4.98	3.55
MX7548BQ-ND	CMOS 12-Bit Current-Output, Multiplying D/A Conv.	20-Dip	23.74	17.92	10.54
MXD1210CSA-ND	Nonvolatile RAM Controller	8-SOIC	5.83	4.40	3.85
MXD1210CSA+-ND	Nonvolatile RAM Controller*	8-SOIC	6.60	4.40	3.19

THERMAL MANAGEMENT

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Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX1617AMEE+-ND	Remote/Local Temp Sensor w/ SMBus Serial Interface	16-QSOP	11.46	7.64	5.53
MAX1617MEE+-ND	Remote/Local Temp Sensor w/ SMBus Serial Interface	16-QSOP	11.46	7.64	5.53
MAX1668MEE+-ND	Multi Channel Remote/Local Temperature Sensor	16-QSOP	11.16	7.44	5.39
MAX6501UKP095+TCT-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	5.19	3.92	3.43
MAX6501UKP095+TTR-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	6125.00/2,500		
MAX6501UKP105+TCT-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	5.19	3.92	3.43
MAX6501UKP105+TTR-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	6125.00/2,500		
MAX6502UKP085+TCT-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	5.19	3.92	3.43
MAX6502UKP085+TTR-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	6125.00/2,500		
MAX6502UKP115+TCT-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	5.19	3.92	3.43
MAX6502UKP115+TTR-ND	2.7V ~ 5.5V, Micropower Temperature Switch	SOT-23-5	6125.00/2,500		
MAX6504UKP005+TCT-ND	2.7V ~ 5.5V, Micropower Temperature Switch ***NEW!***	SOT-23-5	2.25	1.70	1.49
MAX6504UKP005+TTR-ND	2.7V ~ 5.5V, Micropower Temperature Switch ***NEW!***	SOT-23-5	2656.25/2,500		
MAX6505UTP085+TCT-ND	Dual Trip Temperature Switch ***NEW!***	SOT-23-6	2.73	2.06	1.81
MAX6505UTP085+TTR-ND	Dual Trip Temperature Switch ***NEW!***	SOT-23-6	3218.75/2,500		
MAX6509CAUK+TCT-ND	Resistor Programmable Temperature Switch ***NEW!***	SOT-23-5	1.96	1.48	1.30
MAX6509CAUK+TTR-ND	Resistor Programmable Temperature Switch ***NEW!***	SOT-23-5	2312.50/2,500		
MAX6510CAUT+TCT-ND	Resistor Programmable Temperature Switch	SOT-23-6	2.49	1.88	1.65
MAX6510CAUT+TTR-ND	Resistor Programmable Temperature Switch	SOT-23-6	2937.50/2,500		
MAX6510HAUT+TCT-ND	Resistor Programmable Temperature Switch	SOT-23-6	2.49	1.88	1.65
MAX6510HAUT+TTR-ND	Resistor Programmable Temperature Switch	SOT-23-6	2937.50/2,500		
MAX6513TT075+TCT-ND	Remote Temperature Switch ***NEW!***	6-TDFN	2.94	2.22	1.95
MAX6513TT075+TTR-ND	Remote Temperature Switch ***NEW!***	6-TDFN	3468.75/2,500		
MAX6514UKP105+TCT-ND	2.7V~5.5V Temperature Switch	SOT-23-5	2.04	1.54	1.35
MAX6514UKP105+TTR-ND	2.7V~5.5V Temperature Switch	SOT-23-5	2406.25/2,500		
MAX6518UKP095+TCT-ND	2.7V~5.5V Analog Temperature Sensor Switch ***NEW!***	SOT-23-5	2.04	1.54	1.35
MAX6518UKP095+TTR-ND	2.7V~5.5V Analog Temperature Sensor Switch ***NEW!***	SOT-23-5	2406.25/2,500		
MAX6519UKP105+TCT-ND	2.7V~5.5V Analog Temperature Sensor Switch ***NEW!***	SOT-23-5	2.04	1.54	1.35
MAX6519UKP105+TTR-ND	2.7V~5.5V Analog Temperature Sensor Switch ***NEW!***	SOT-23-5	2406.25/2,500		
MAX6575HZUT+TCT-ND	Temp. Sensor with Single Wire Digital Interface ***NEW!***	SOT-23-6	2.84	2.14	1.88
MAX6575HZUT+TTR-ND	Temp. Sensor with Single Wire Digital Interface ***NEW!***	SOT-23-6	3343.75/2,500		
MAX6575LZUT+TCT-ND	Temp. Sensor with Single Wire Digital Interface	SOT-23-6	2.84	2.14	1.88
MAX6575LZUT+TTR-ND	Temp. Sensor with Single Wire Digital Interface	SOT-23-6	3343.75/2,500		
MAX6576ZUT+TCT-ND	Temperature Sensor with Period/Frequency Output	SOT-23-6	2.73	2.06	1.81
MAX6576ZUT+TTR-ND	Temperature Sensor with Period/Frequency Output	SOT-23-6	3218.75/2,500		
MAX6577ZUT+TCT-ND	Temperature Sensor with Period/Frequency Output	SOT-23-6	2.73	2.06	1.81
MAX6577ZUT+TTR-ND	Temperature Sensor with Period/Frequency Output	SOT-23-6	3218.75/2,500		
MAX6605MXK+TCT-ND	Low Power Analog Temperature Sensor	SC70-5	5.17	3.90	3.42
MAX6605MXK+TTR-ND	Low Power Analog Temperature Sensor	SC70-5	6093.75/2,500		
MAX6612MXK+TCT-ND	High-Slope, Low Power, Analog Temperature Sensor	SC70-5	5.75	4.34	3.80
MAX6612MXK+TTR-ND	High-Slope, Low Power, Analog Temperature Sensor	SC70-5	6781.25/2,500		
MAX6613MXK+TCT-ND	Low Voltage Analog Temperature Sensor	SC70-5	5.75	4.34	3.80
MAX6613MXK+TTR-ND	Low Voltage Analog Temperature Sensor	SC70-5	6781.25/2,500		
MAX6625PMTT+TCT-ND	9-Bit Temp. Sensor with I^2C-Compatible Serial Interface	6-TDFN	3.10	2.34	2.05
MAX6625PMTT+TTR-ND	9-Bit Temp. Sensor with I^2C-Compatible Serial Interface	6-TDFN	3656.25/2,500		
MAX6625RMTT+TCT-ND	9-Bit Temp. Sensor with I^2C-Compatible Serial Interface	6-TDFN	3.10	2.34	2.05
MAX6625RMTT+TTR-ND	9-Bit Temp. Sensor with I^2C-Compatible Serial Interface	6-TDFN	3656.25/2,500		
MAX6626PMTT+TCT-ND	12-Bit Temp. Sensor w/ I^2C-Compatible Serial Interface	6-TDFN	3.45	2.60	2.28
MAX6626PMTT+TTR-ND	12-Bit Temp. Sensor w/ I^2C-Compatible Serial Interface	6-TDFN	4062.50/2,500		
MAX6627MTA+TCT-ND	Remote ±1°C Accurate Digital Temperature Sensor	8-TDFN	6.36	4.80	4.20
MAX6627MTA+TTR-ND	Remote ±1°C Accurate Digital Temperature Sensor	8-TDFN	7500.00/2,500		
MAX6628MTA+TCT-ND	Remote ±1°C Accurate Digital Temperature Sensor	8-TDFN	6.49	4.90	4.29
MAX6628MTA+TTR-ND	Remote ±1°C Accurate Digital Temperature Sensor	8-TDFN	7656.25/2,500		
MAX6629MTT+TCT-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	4.96	3.74	3.28
MAX6629MTT+TTR-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	5843.75/2,500		
MAX6630MTT+TCT-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	4.96	3.74	3.28
MAX6630MTT+TTR-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	5843.75/2,500		
MAX6631MTT+TCT-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	5.33	4.02	3.52
MAX6631MTT+TTR-ND	12-Bit +Sign Digital Temperature Sensor	6-TDFN	6281.25/2,500		
MAX6633MSA+-ND	12-Bit +Sign Digital Temperature Sensor	8-SOIC	5.19	3.46	2.50
MAX6639AEE+TCT-ND	2-Ch. Temp. Monitor w/Dual Auto PWM Fan Speed Ctrlr	16-QSOP	5.75	4.34	3.80
MAX6639AEE+TTR-ND	2-Ch. Temp. Monitor w/Dual Auto PWM Fan Speed Ctrlr	16-QSOP	6781.25/2,500		

THERMAL MANAGEMENT

(Cont.)

RoHS Compliant

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX6642ATT90+TCT-ND	SMBus-Compatible Remote/Local Temp. Sensor	6-TDFN	3.13	2.36	2.07
MAX6642ATT90+TTR-ND	SMBus-Compatible Remote/Local Temp. Sensor	6-TDFN	3687.50/2,500		
MAX6642ATT92+TCT-ND	SMBus-Compatible Remote/Local Temp. Sensor ***NEW!***	6-TDFN	3.13	2.36	2.07
MAX6642ATT92+TTR-ND	SMBus-Compatible Remote/Local Temp. Sensor ***NEW!***	6-TDFN	3687.50/2,500		
MAX6646MUA+-ND	+145°C Prec. SMBus Compatible Remote/ Local Sensor	8-µMAX	4.62	3.08	2.23
MAX6646MUA+TCT-ND	+145°C Prec. SMBus Compatible Remote/Local Sensor	8-µMAX	4.27	3.22	2.82
MAX6646MUA+TTR-ND	+145°C Prec. SMBus Compatible Remote/Local Sensor	8-µMAX	5031.25/2,500		
MAX6652AUB+-ND	Temperature Sensor and System Monitor	10-µMAX	7.17	4.78	3.46
MAX6652AUB+TCT-ND	Temperature Sensor and System Monitor	10-µMAX	6.52	4.92	4.31
MAX6652AUB+TTR-ND	Temperature Sensor and System Monitor	10-µMAX	7687.50/2,500		
MAX6654MEE+TCT-ND	1°C Accurate Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	8.14	6.14	5.38
MAX6654MEE+TTR-ND	1°C Accurate Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	9593.75/2,500		
MAX6656MEE+TCT-ND	Dual Remote/Local Temp Sensor/4-Ch. Voltage Monitor	16-QSOP	9.96	7.52	6.58
MAX6656MEE+TTR-ND	Dual Remote/Local Temp Sensor/4-Ch. Voltage Monitor	16-QSOP	11750.00/2,500		
MAX6657MSA+TCT-ND	±1°C, SMBus-Compatible Remote/Local Temp. Sensor	8-SOIC	6.94	5.24	4.59
MAX6657MSA+TTR-ND	±1°C, SMBus-Compatible Remote/Local Temp. Sensor	8-SOIC	8187.50/2,500		
MAX6665ASA45+TCT-ND	Fan Controller/Driver with Factory-Programmed Temperature Thresholds	8-SOIC	4.29	3.24	2.84
MAX6665ASA45+TTR-ND	Fan Cont./Driver with Factory-Prog. Temp. Thresholds	8-SOIC	5062.50/2,500		
MAX6682MUA+-ND	Thermistor-to-Digital Converter	8-µMAX	7.35	4.90	3.55
MAX6690MEE+TCT-ND	2°C Accurate Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	6.52	4.92	4.31
MAX6690MEE+TTR-ND	2°C Accurate Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	7687.50/2,500		
MAX6692MUA+TCT-ND	Prec. SMBus-Compatible Remote/Local Temp. Sensor	8-µMAX	4.27	3.22	2.82
MAX6692MUA+TTR-ND	Prec. SMBus-Compatible Remote/Local Temp. Sensor	8-µMAX	5031.25/2,500		
MAX6696AEE+TCT-ND	Dual Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	6.60	4.98	4.36
MAX6696AEE+TTR-ND	Dual Remote/Local Temperature Sensor with SMBus Serial Interface	16-QSOP	7781.25/2,500		
MAX6697UP34+TCT-ND	7-Channel Precision Temperature Monitor	20-TSSOP	10.41	7.86	6.88
MAX6697UP34+TTR-ND	7-Channel Precision Temperature Monitor	20-TSSOP	12281.25/2,500		
MAX7500MSA+TCT-ND	Digital Temperature Sensor and Thermal Watchdog	8-SOIC	1.96	1.48	1.30
MAX7500MSA+TTR-ND	Digital Temperature Sensor and Thermal Watchdog	8-SOIC	2312.50/2,500		
MAX7500MUA+TCT-ND	Digital Temperature Sensor and Thermal Watchdog	8-µMAX	1.96	1.48	1.30
MAX7500MUA+TTR-ND	Digital Temperature Sensor and Thermal Watchdog	8-µMAX	2312.50/2,500		

VOLTAGE REFERENCE

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
LM4040AIM3-2.5+TCT-ND	2.5V Precision Micropower Shunt Voltage Reference*	SOT-23	1.70	1.28	1.12
LM4040AIM3-2.5+TTR-ND	2.5V Precision Micropower Shunt Voltage Reference*	SOT-23	2025.01/2,500		
LM4040AIM3-3.0+TCT-ND	3V Precision Micropower Shunt Voltage Reference*	SOT-23	1.70	1.28	1.12
LM4040AIM3-3.0+TTR-ND	3V Precision Micropower Shunt Voltage Reference*	SOT-23	2025.01/2,500		
LM4040AIM3-4.1+TCT-ND	4.096V Prec. Micropower Shunt Voltage Reference*	SOT-23	1.70	1.28	1.12
LM4040AIM3-4.1+TTR-ND	4.096V Prec. Micropower Shunt Voltage Reference*	SOT-23	2025.01/2,500		
LM4040AIM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Reference*	SOT-23	1.70	1.28	1.12
LM4040AIM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Reference*	SOT-23	2025.01/2,500		
LM4040BEM3-4.1+TCT-ND	4.096V Prec. Micropower Shunt Voltage Reference*	SOT-23	1.30	.98	.86
LM4040BEM3-4.1+TTR-ND	4.096V Prec. Micropower Shunt Voltage Reference*	SOT-23	1550.00/2,500		
LM4040BIM3-2.1+TCT-ND	2.048V Prec. Micropower Shunt Voltage Reference*	SOT-23	1.30	.98	.86
LM4040BIM3-2.1+TTR-ND	2.048V Prec. Micropower Shunt Voltage Reference*	SOT-23	1550.00/2,500		
LM4040BIM3-2.5+TCT-ND	2.5V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1.30	.98	.86
LM4040BIM3-2.5+TTR-ND	2.5V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1550.00/2,500		
LM4040BIM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1.30	.98	.86
LM4040BIM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1550.00/2,500		
LM4040BIX3-2.5+TCT-ND	2.5V Prec. Micropower Shunt Voltage Ref.*	SC70-3	1.30	.98	.86
LM4040BIX3-2.5+TTR-ND	2.5V Prec. Micropower Shunt Voltage Ref.*	SC70-3	1550.00/2,500		
LM4040BIX3-3.0+TCT-ND	3V Precision Micropower Shunt Voltage Ref.*	SC70-3	1.30	.98	.86
LM4040BIX3-3.0+TTR-ND	3V Precision Micropower Shunt Voltage Ref.*	SC70-3	1550.00/2,500		
LM4040CEM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	.74	.56	.49
LM4040CEM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	900.00/2,500		
LM4040CIM3-2.5+TCT-ND	2.5V Prec. Micropower Shunt Voltage Ref.* ***NEW!***	SOT-23	.74	.56	.49
LM4040CIM3-2.5+TTR-ND	2.5V Prec. Micropower Shunt Voltage Ref.* ***NEW!***	SOT-23	900.00/2,500		
LM4040CIX3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SC70-3	.74	.56	.49
LM4040CIX3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SC70-3	900.00/2,500		
LM4040DEM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	.64	.48	.42
LM4040DEM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	775.00/2,500		
LM4040DIM3-2.5+TCT-ND	2.5V Precision Micropower Shunt Volt. Ref.*	SOT-23	.64	.48	.42
LM4040DIM3-2.5+TTR-ND	2.5V Precision Micropower Shunt Volt. Ref.*	SOT-23	775.00/2,500		
LM4040DIM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	.64	.48	.42
LM4040DIM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	775.00/2,500		
LM4040DIX3-2.5+TCT-ND	2.5V Precision Micropower Shunt Volt. Ref.*	SC70-3	.64	.48	.42
LM4040DIX3-2.5+TTR-ND	2.5V Precision Micropower Shunt Volt. Ref.*	SC70-3	775.00/2,500		
LM4041BIM3-1.2+TCT-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1.30	.98	.86
LM4041BIM3-1.2+TTR-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1550.00/2,500		
LM4041BIX3-1.2+TCT-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SC70-3	1.30	.98	.86
LM4041BIX3-1.2+TTR-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SC70-3	1550.00/2,500		
LM4041CIX3-1.2+TCT-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SC70-3	.74	.56	.49
LM4041CIX3-1.2+TTR-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SC70-3	900.00/2,500		
LM4041DIM3-1.2+TCT-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SOT-23	.64	.48	.42
LM4041DIM3-1.2+TTR-ND	1.225V Prec. Micropower Shunt Voltage Ref.*	SOT-23	775.00/2,500		
LM4050AEM3-2.1+TCT-ND	2.048V Prec. Micropower Shunt Voltage Ref.*	SOT-23	2.73	2.06	1.81
LM4050AEM3-2.1+TTR-ND	2.048V Prec. Micropower Shunt Voltage Ref.*	SOT-23	3218.75/2,500		
LM4050AEM3-2.5+TCT-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	2.73	2.06	1.81
LM4050AEM3-2.5+TTR-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	3218.75/2,500		
LM4050AEM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	2.73	2.06	1.81
LM4050AEM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	3218.75/2,500		
LM4050BEM3-2.5+TCT-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1.78	1.34	1.18
LM4050BEM3-2.5+TTR-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	2093.75/2,500		
LM4050BEM3-4.1+TCT-ND	4.096V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1.78	1.34	1.18
LM4050BEM3-4.1+TTR-ND	4.096V Prec. Micropower Shunt Voltage Ref.*	SOT-23	2093.75/2,500		
LM4050BEM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1.78	1.34	1.18
LM4050BEM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	2093.75/2,500		
LM4050BEX3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SC70-3	1.72	1.30	1.14
LM4050BEX3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SC70-3	2050.00/2,500		
LM4050CEM3-2.1+TCT-ND	2.048V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1.59	1.20	1.05
LM4050CEM3-2.1+TTR-ND	2.048V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1875.00/2,500		
LM4050CEM3-2.5+TCT-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1.59	1.20	1.05
LM4050CEM3-2.5+TTR-ND	2.5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1875.00/2,500		

* *RoHS Compliant*

(Continued)

MAXIM INNOVATION DELIVERED™ Digi-Reel® *(Cont.)*

VOLTAGE REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4050CEM3-4.1+TCT-ND	4.096V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1.59	1.20	1.05
LM4050CEM3-4.1+TTR-ND	4.096V Prec. Micropower Shunt Voltage Ref.*	SOT-23	1875.00/2,500		
LM4050CEM3-5.0+TCT-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1.59	1.20	1.05
LM4050CEM3-5.0+TTR-ND	5V Precision Micropower Shunt Voltage Ref.*	SOT-23	1875.00/2,500		
MAX6001EUR+TCT-ND	1.25V, Low Power LDO Voltage Reference*	SOT23-3	.93	.70	.62
MAX6001EUR+TTR-ND	1.25V, Low Power LDO Voltage Reference*	SOT23-3	1093.75/2,500		
MAX6002EUR+TCT-ND	2.5V, Low Power, LDO Voltage Reference*	SOT23-3	.93	.70	.62
MAX6002EUR+TTR-ND	2.5V, Low Power, LDO Voltage Reference*	SOT23-3	1093.75/2,500		
MAX6003EUR+TCT-ND	3V, Low Power LDO Voltage Reference*	SOT23-3	.93	.70	.62
MAX6003EUR+TTR-ND	3V, Low Power LDO Voltage Reference*	SOT23-3	1093.75/2,500		
MAX6004EUR+TCT-ND	4.096V, Low Power LDO Voltage Reference*	SOT23-3	.93	.70	.62
MAX6004EUR+TTR-ND	4.096V, Low Power LDO Voltage Reference*	SOT23-3	1093.75/2,500		
MAX6005EUR+TCT-ND	5V, Low Power LDO Voltage Reference* ***NEW!***	SOT23-3	.93	.70	.62
MAX6005EUR+TTR-ND	5V, Low Power LDO Voltage Reference* ***NEW!***	SOT23-3	1093.75/2,500		
MAX6006AEUR+TCT-ND	1.25V, Precision Shunt Voltage Reference*	SOT23-3	2.01	1.52	1.33
MAX6006AEUR+TTR-ND	1.25V, Precision Shunt Voltage Reference*	SOT23-3	2375.00/2,500		
MAX6006BEUR+TCT-ND	1.25V, Precision Shunt Voltage Reference*	SOT23-3	1.27	.96	.84
MAX6006BEUR+TTR-ND	1.25V, Precision Shunt Voltage Reference*	SOT23-3	1500.00/2,500		
MAX6007AEUR+TCT-ND	2.048V, Precision Shunt Voltage Reference* ***NEW!***	SOT23-3	2.01	1.52	1.33
MAX6007AEUR+TTR-ND	2.048V, Precision Shunt Voltage Reference* ***NEW!***	SOT23-3	2375.00/2,500		
MAX6007BEUR+TCT-ND	2.048V, Precision Shunt Voltage Reference*	SOT23-3	1.27	.96	.84
MAX6007BEUR+TTR-ND	2.048V, Precision Shunt Voltage Reference*	SOT23-3	1500.00/2,500		
MAX6008AESA+-ND	2.5V Precision Shunt Voltage Reference*	8-SOIC	2.19	—	1.44
MAX6008AEUR+TCT-ND	2.5V, Precision Shunt Voltage Reference*	SOT23-3	2.01	1.52	1.33
MAX6008AEUR+TTR-ND	2.5V, Precision Shunt Voltage Reference*	SOT23-3	2375.00/2,500		
MAX6008BEUR+TCT-ND	2.5V, Precision Shunt Voltage Reference*	SOT23-3	1.27	.96	.84
MAX6008BEUR+TTR-ND	2.5V, Precision Shunt Voltage Reference*	SOT23-3	1500.00/2,500		
MAX6009AEUR+TCT-ND	3V, Precision Shunt Voltage Reference*	SOT23-3	2.01	1.52	1.33
MAX6009AEUR+TTR-ND	3V, Precision Shunt Voltage Reference*	SOT23-3	2375.00/2,500		
MAX6009BEUR+TCT-ND	3V, Precision Shunt Voltage Reference*	SOT23-3	1.27	.96	.84
MAX6009BEUR+TTR-ND	3V, Precision Shunt Voltage Reference*	SOT23-3	1500.00/2,500		
MAX6010AEUR+TCT-ND	3V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-3	1.40	1.06	.93
MAX6010AEUR+TTR-ND	3V, Precision LDO Voltage Reference* ***NEW!***	SOT-23-3	1656.25/2,500		
MAX6012AEUR+TCT-ND	1.247V, Precision, Low Power LDO Volt. Reference*	SOT-23-3	4.08	3.08	2.70
MAX6012AEUR+TTR-ND	1.247V, Precision, Low Power LDO Volt. Reference*	SOT-23-3	4812.50/2,500		
MAX6012BEUR+TCT-ND	1.247V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	3.15	2.38	2.09
MAX6012BEUR+TTR-ND	1.247V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	3718.75/2,500		
MAX6018AEUR12+TCT-ND	1.263V, Prec., Micropower LDO Voltage Reference*	SOT23-3	2.33	1.76	1.54
MAX6018AEUR12+TTR-ND	1.263V, Prec., Micropower LDO Voltage Reference*	SOT23-3	2750.00/2,500		
MAX6018BEUR18+TCT-ND	1.8V, Precision, Micropower LDO Voltage Reference*	SOT23-3	1.99	1.50	1.32
MAX6018BEUR18+TTR-ND	1.8V, Precision, Micropower LDO Voltage Reference*	SOT23-3	2343.75/2,500		
MAX6018BEUR21+TCT-ND	2.048V, Prec., Micropower LDO Voltage Ref.* ***NEW!***	SOT23-3	1.99	1.50	1.32
MAX6018BEUR21+TTR-ND	2.048V, Prec., Micropower LDO Voltage Ref.* ***NEW!***	SOT23-3	2343.75/2,500		
MAX6021AEUR+TCT-ND	2.048V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	4.08	3.08	2.70
MAX6021AEUR+TTR-ND	2.048V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	4812.50/2,500		
MAX6023EBT12+TCT-ND	1.25V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	5-UCSP	3.58	2.70	2.37
MAX6023EBT12+TTR-ND	1.25V, Prec., Low Power LDO Voltage Ref.* ***NEW!***	5-UCSP	4218.75/2,500		
MAX6023EBT25+TCT-ND	2.5V, Precision, Low Power LDO Voltage Ref.* ***NEW!***	5-UCSP	3.58	2.70	2.37
MAX6023EBT25+TTR-ND	2.5V, Precision, Low Power LDO Voltage Ref.* ***NEW!***	5-UCSP	4218.75/2,500		
MAX6025AEUR+TCT-ND	2.5V, Precision, Micropower LDO Voltage Reference*	SOT23-3	4.08	3.08	2.70
MAX6025AEUR+TTR-ND	2.5V, Precision, Micropower LDO Voltage Reference*	SOT23-3	4812.50/2,500		
MAX6029ESA25+-ND	Ultra Low-Power Precision Voltage Reference*	8-SOIC	2.89	2.50	2.33
MAX6029ESA41+-ND	4.096V Ultra-Low Power Precision Voltage Ref.*	8-SOIC	2.89	2.50	2.33
MAX6029EUK21+TCT-ND	2.048V Ultra-Low Power Precision Voltage Ref.*	SOT23-5	4.05	3.06	2.68
MAX6029EUK21+TTR-ND	2.048V Ultra-Low Power Precision Voltage Ref.*	SOT23-5	4781.25/2,500		
MAX6029EUK25+TCT-ND	2.5V Ultra-Low Power Precision Voltage Reference*	SOT23-5	5.22	3.94	3.45
MAX6029EUK25+TTR-ND	2.5V Ultra-Low Power Precision Voltage Reference*	SOT23-5	6156.25/2,500		
MAX6029EUK30+TCT-ND	3V Ultra-Low Power Precision Voltage Reference*	SOT23-5	4.05	3.06	2.68
MAX6029EUK30+TTR-ND	3V Ultra-Low Power Precision Voltage Reference*	SOT23-5	4781.25/2,500		
MAX6029EUK41+TCT-ND	4.096V Ultra-Low Power Precision Voltage Ref.*	SOT23-5	4.05	3.06	2.68
MAX6029EUK41+TTR-ND	4.096V Ultra-Low Power Precision Voltage Ref.*	SOT23-5	4781.25/2,500		
MAX6029EUK50+TCT-ND	5V Ultra-Low Power Precision Voltage Reference*	SOT23-5	4.05	3.06	2.68
MAX6029EUK50+TTR-ND	5V Ultra-Low Power Precision Voltage Reference*	SOT23-5	4781.25/2,500		
MAX6030AEUR+TCT-ND	3V, Precision, Low Power LDO Voltage Reference*	SOT23-3	4.08	3.08	2.70
MAX6030AEUR+TTR-ND	3V, Precision, Low Power LDO Voltage Reference*	SOT23-3	4812.50/2,500		
MAX6030BEUR+TCT-ND	3V, Precision, Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	3.15	2.38	2.09
MAX6030BEUR+TTR-ND	3V, Precision, Low Power LDO Voltage Ref.* ***NEW!***	SOT23-3	3718.75/2,500		
MAX6033AAUT25#TG16CT-ND	2.5V, Ultra-High Precision Voltage Reference*	SOT23-6	8.32	6.28	5.50
MAX6033AAUT25#TG16TR-ND	2.5V, Ultra-High Precision Voltage Reference*	SOT23-6	9812.50/2,500		
MAX6033AAUT50#TG16CT-ND	5V, Ultra-High Precision Voltage Reference*	SOT23-6	8.32	6.28	5.50
MAX6033AAUT50#TG16TR-ND	5V, Ultra-High Precision Voltage Reference*	SOT23-6	9812.50/2,500		
MAX6033BAUT41#TG16CT-ND	4.096V, Ultra-High Precision Voltage Reference*	SOT23-6	5.72	4.32	3.78
MAX6033BAUT41#TG16TR-ND	4.096V, Ultra-High Precision Voltage Reference*	SOT23-6	6750.00/2,500		
MAX6034AEXR21+TCT-ND	2.048V, Micropower Precision Voltage Ref.* ***NEW!***	SC70-3	3.23	2.44	2.14
MAX6034AEXR21+TTR-ND	2.048V, Micropower Precision Voltage Ref.* ***NEW!***	SC70-3	3812.50/2,500		
MAX6034AEXR25+TCT-ND	2.5V, Micropower Precision Voltage Ref.* ***NEW!***	SC70-3	3.21	2.42	2.12
MAX6034AEXR25+TTR-ND	2.5V, Micropower Precision Voltage Ref.* ***NEW!***	SC70-3	3781.25/2,500		
MAX6034AEXR30+TCT-ND	3V Micropower Precision LDO Voltage Reference*	SC70-3	3.23	2.44	2.14
MAX6034AEXR30+TTR-ND	3V Micropower Precision LDO Voltage Reference*	SC70-3	3812.50/2,500		
MAX6034AEXR33+TCT-ND	3.3V Micropower Precision LDO Voltage Reference*	SC70-3	3.23	2.44	2.14
MAX6034AEXR33+TTR-ND	3.3V Micropower Precision LDO Voltage Reference*	SC70-3	3812.50/2,500		
MAX6034BEXR25+TCT-ND	2.5V Micropower Precision LDO Voltage Reference*	SC70-3	1.33	1.00	.88
MAX6034BEXR25+TTR-ND	2.5V Micropower Precision LDO Voltage Reference*	SC70-3	1562.50/2,500		
MAX6034BEXR30+TCT-ND	3V Micropower Precision LDO Voltage Reference*	SC70-3	1.33	1.00	.88
MAX6034BEXR30+TTR-ND	3V Micropower Precision LDO Voltage Reference*	SC70-3	1562.50/2,500		
MAX6035AAUR25+TCT-ND	2.5V Precision Voltage Reference*	SOT23-3	2.44	1.84	1.61
MAX6035AAUR25+TTR-ND	2.5V Precision Voltage Reference*	SOT23-3	2875.00/2,500		
MAX6035AAUR50+TCT-ND	5V Precision Voltage Reference*	SOT23-3	2.44	1.84	1.61
MAX6035AAUR50+TTR-ND	5V Precision Voltage Reference*	SOT23-3	2875.00/2,500		
MAX6035BAUR25+TCT-ND	2.5V Precision Voltage Reference*	SOT23-3	1.51	1.14	1.00
MAX6035BAUR25+TTR-ND	2.5V Precision Voltage Reference*	SOT23-3	1781.25/2,500		
MAX6035BAUR50+TCT-ND	5V Precision Voltage Reference*	SOT23-3	1.51	1.14	1.00
MAX6035BAUR50+TTR-ND	5V Precision Voltage Reference*	SOT23-3	1781.25/2,500		
MAX6037AAUK25+TCT-ND	2.5V Low Power Voltage Ref. w/Shutdown*	SOT23-5	3.02	2.28	2.00
MAX6037AAUK25+TTR-ND	2.5V Low Power Voltage Ref. w/Shutdown*	SOT23-5	3562.50/2,500		
MAX6037AAUKADJ+TCT-ND	Adj. Voltage LP Voltage Ref. with Shutdown*	SOT23-5	3.02	2.28	2.00
MAX6037AAUKADJ+TTR-ND	Adj. Voltage LP Voltage Ref. with Shutdown*	SOT23-5	3562.50/2,500		
MAX6041AEUR+TCT-ND	4.096V Precision Low Power LDO Volt. Reference*	SOT23-3	4.08	3.08	2.70
MAX6041AEUR+TTR-ND	4.096V Precision Low Power LDO Volt. Reference*	SOT23-3	4812.50/2,500		
MAX6050AEUR+TCT-ND	5V Precision Low Power LDO Voltage Reference*	SOT23-3	4.08	3.08	2.70
MAX6050AEUR+TTR-ND	5V Precision Low Power LDO Voltage Reference*	SOT23-3	4812.50/2,500		
MAX6061AEUR+TCT-ND	1.248V Precision Micropower LDO Volt. Reference*	SOT23-3	4.08	3.08	2.70
MAX6061AEUR+TTR-ND	1.248V Precision Micropower LDO Volt. Reference*	SOT23-3	4812.50/2,500		
MAX6061BEUR+TCT-ND	1.248V Precision Micropower LDO Volt. Reference*	SOT23-3	3.15	2.38	2.09
MAX6061BEUR+TTR-ND	1.248V Precision Micropower LDO Volt. Reference*	SOT23-3	3718.75/2,500		
MAX6062AEUR+TCT-ND	2.048V Precision Micropower LDO Volt. Reference*	SOT23-3	4.08	3.08	2.70
MAX6062AEUR+TTR-ND	2.048V Precision Micropower LDO Volt. Reference*	SOT23-3	4812.50/2,500		
MAX6063AEUR+TCT-ND	3V Precision Micropower LDO Voltage Reference*	SOT23-3	4.08	3.08	2.70
MAX6063AEUR+TTR-ND	3V Precision Micropower LDO Voltage Reference*	SOT23-3	4812.50/2,500		
MAX6064AEUR+TCT-ND	4.096V Precision Micropower LDO Voltage Ref.*	SOT23-3	4.08	3.08	2.70
MAX6064AEUR+TTR-ND	4.096V Precision Micropower LDO Voltage Ref.*	SOT23-3	4812.50/2,500		
MAX6065BEUR+TCT-ND	5V Precision Micropower LDO Voltage Reference*	SOT23-3	3.15	2.38	2.09
MAX6065BEUR+TTR-ND	5V Precision Micropower LDO Voltage Reference*	SOT23-3	3718.75/2,500		
MAX6066AEUR+TCT-ND	2.5V Precision Micropower LDO Voltage Reference*	SOT23-3	4.08	3.08	2.70
MAX6066AEUR+TTR-ND	2.5V Precision Micropower LDO Voltage Reference*	SOT23-3	4812.50/2,500		
MAX6066BEUR+TCT-ND	2.5V Precision Micropower LDO Voltage Reference*	SOT23-3	3.15	2.38	2.09
MAX6066BEUR+TTR-ND	2.5V Precision Micropower LDO Voltage Reference*	SOT23-3	3718.75/2,500		
MAX6067AEUR+TCT-ND	4.5V Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT23-3	4.08	3.08	2.70
MAX6067AEUR+TTR-ND	4.5V Precision Micropower LDO Voltage Ref.* ***NEW!***	SOT23-3	4812.50/2,500		
MAX6101EUR+TCT-ND	1.25V Micropower LDO Voltage Reference*	SOT23-3	.77	.58	.51
MAX6101EUR+TTR-ND	1.25V Micropower LDO Voltage Reference*	SOT23-3	906.25/2,500		
MAX6102EUR+TCT-ND	2.5V Micropower LDO Voltage Reference*	SOT23-3	.77	.58	.51
MAX6102EUR+TTR-ND	2.5V Micropower LDO Voltage Reference*	SOT23-3	906.25/2,500		
MAX6103EUR+TCT-ND	3V Micropower LDO Voltage Reference*	SOT23-3	.77	.58	.51
MAX6103EUR+TTR-ND	3V Micropower LDO Voltage Reference*	SOT23-3	906.25/2,500		
MAX6104EUR+TCT-ND	4.096V Micropower LDO Voltage Reference*	SOT23-3	.77	.58	.51
MAX6104EUR+TTR-ND	4.096V Micropower LDO Voltage Reference*	SOT23-3	906.25/2,500		
MAX6105EUR+TCT-ND	5V Micropower LDO Voltage Reference*	SOT23-3	.77	.58	.51
MAX6105EUR+TTR-ND	5V Micropower LDO Voltage Reference*	SOT23-3	906.25/2,500		
MAX6106EUR+TCT-ND	2.048V, Micropower LDO Voltage Reference* ***NEW!***	SOT23-3	.77	.58	.51
MAX6106EUR+TTR-ND	2.048V, Micropower LDO Voltage Reference* ***NEW!***	SOT23-3	906.25/2,500		
MAX6107EUR+TCT-ND	4.5V, Micropower LDO Voltage Reference* ***NEW!***	SOT23-3	.77	.58	.51
MAX6107EUR+TTR-ND	4.5V, Micropower LDO Voltage Reference* ***NEW!***	SOT23-3	906.25/2,500		
MAX6120ESA+-ND	Micropower Prec., 3-Terminal Voltage Reference*	8-SOIC	1.81	1.57	1.19
MAX6120EUR+TCT-ND	1.2V Micropower Precision Voltage Reference*	SOT23-3	1.86	1.40	1.23
MAX6120EUR+TTR-ND	1.2V Micropower Precison Voltage Reference*	SOT23-3	2187.50/2,500		
MAX6125ESA+-ND	Low Dropout, 2.5V, 3-Terminal Voltage Reference*	8-SOIC	2.19	1.89	1.43
MAX6125EUR+TCT-ND	2.5V 3-Terminal LDO Voltage Reference*	SOT23-3	2.92	2.20	1.93
MAX6125EUR+TTR-ND	2.5V 3-Terminal LDO Voltage Reference*	SOT23-3	3437.50/2,500		
MAX6126A21+-ND	Ultra Hi Prec. 2.048V Ultra LN Voltage Reference*	8-μMAX	5.45	4.99	—
MAX6126A25+-ND	Ultra High Prec. 2.5V Ultra LN Voltage Reference*	8-μMAX	5.45	4.99	—
MAX6126A41+-ND	Ultra High Prec. 4.096V Ultra LN Voltage Ref.* ***NEW!***	8-μMAX	5.45	4.99	—
MAX6126A50+-ND	Ultra High Prec. 5V Ultra LN Voltage Ref.* ***NEW!***	8-μMAX	5.45	4.99	—
MAX6126AASA21+-ND	Ultra High Prec. 2.048V Ultra LN Volt. Reference*	8-SOIC	6.60	6.05	—
MAX6126AASA25+-ND	Ultra High Precision, Ultra LN Voltage Reference*	8-SOIC	6.60	6.05	—
MAX6126AASA30+-ND	Ultra High Prec. 3V Ultra LN Voltage Reference*	8-SOIC	6.60	6.05	—
MAX6126AASA41+-ND	Ultra High Prec. 4.096V Ultra LN Volt. Reference*	8-SOIC	6.60	6.05	—
MAX6126AASA50+-ND	Ultra High Precision 5V Ultra LN Volt. Reference*	8-SOIC	6.60	6.05	—
MAX6126B25+-ND	Ultra High Precision 2.5V Ultra LN Volt. Reference*	8-μMAX	4.76	4.37	—
MAX6126B30+-ND	Ultra High Prec. 3V Ultra LN Voltage Ref.* ***NEW!***	8-μMAX	4.76	4.37	—
MAX6126BASA21+-ND	Ultra High Precision 2.048V Ultra LN Volt. Reference*	8-SOIC	4.53	4.15	—
MAX6126BASA25+-ND	Ultra High Precision 2.5V Ultra LN Volt. Reference*	8-SOIC	4.53	4.15	—
MAX6126BASA50+-ND	Ultra High Precision 5V Ultra LN Volt. Ref.* ***NEW!***	8-SOIC	4.53	4.15	—
MAX6133A25+-ND	Low Power, 2.5V LDO Voltage Reference*	8-μMAX	5.81	5.27	—
MAX6133A30+-ND	Low Power, 3V LDO Voltage Reference*	8-μMAX	5.81	5.27	—
MAX6133A41+-ND	Low Power, 4.096V LDO Voltage Reference*	8-μMAX	5.81	5.27	—
MAX6133AASA25+-ND	Low Power, 2.5V LDO Voltage Reference*	8-SOIC	7.16	6.48	—
MAX6133AASA50+-ND	Low Power, 5V LDO Voltage Reference*	8-SOIC	7.16	6.48	—
MAX6138AEXR25+TCT-ND	2.5V Shunt Voltage Reference*	SC70-3	4.19	3.16	2.77
MAX6138AEXR25+TTR-ND	2.5V Shunt Voltage Reference*	SC70-3	4937.50/2,500		
MAX6138AEXR30+TCT-ND	3V Shunt Voltage Reference* ***NEW!***	SC70-3	4.19	3.16	2.77
MAX6138AEXR30+TTR-ND	3V Shunt Voltage Reference* ***NEW!***	SC70-3	4937.50/2,500		
MAX6138CEXR12+TCT-ND	1.2205V Shunt Voltage Reference*	SC70-3	2.73	2.06	1.81
MAX6138CEXR12+TTR-ND	1.2205V Shunt Voltage Reference*	SC70-3	3218.75/2,500		
MAX6138CEXR25+TCT-ND	2.5V Shunt Voltage Reference* ***NEW!***	SC70-3	2.73	2.06	1.81
MAX6138CEXR25+TTR-ND	2.5V Shunt Voltage Reference* ***NEW!***	SC70-3	3218.75/2,500		
MAX6141ESA+-ND	LDO Voltage Reference*	8-SOIC	2.19	1.89	1.43
MAX6141EUR+TCT-ND	4.096V 3-Terminal LDO Voltage Reference*	SOT23-3	2.23	1.68	1.47
MAX6141EUR+TTR-ND	4.096V 3-Terminal LDO Voltage Reference*	SOT23-3	2625.00/2,500		
MAX6143AASA10+-ND	10V High Prec. Voltage Reference w/ Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6143AASA33+-ND	3.3V High Prec. Voltage Reference w/ Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6143AASA50+-ND	5V High Precision Volt. Ref. w/ Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6143BASA50+-ND	5V High Prec. Voltage Ref. w/ Temp. Sensor* ***NEW!***	8-SOIC	4.35	3.89	3.79
MAX6145EUR+TCT-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	2.23	1.68	1.47
MAX6145EUR+TTR-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	2625.00/2,500		
MAX6160ESA+-ND	Adj. Voltage LDO 3-Terminal Voltage Reference*	8-SOIC	2.62	2.27	1.72
MAX6160EUS+TCT-ND	Adj. Voltage 3-Terminal LDO Voltage Reference*	SOT143-4	2.04	1.54	1.35
MAX6160EUS+TTR-ND	Adj. Voltage 3-Terminal LDO Voltage Reference*	SOT143-4	2406.25/2,500		
MAX6161AESA+-ND	1.25V Precision, Micropower LDO Volt. Reference*	8-SOIC	4.50	3.89	2.97
MAX6162AESA+-ND	2.048V Precision, Micropower LDO Volt. Ref.* ***NEW!***	8-SOIC	4.50	3.89	2.97
MAX6162BESA+-ND	2.048V Precision, Micropower LDO Volt. Ref.* ***NEW!***	8-SOIC	3.60	3.11	2.37
MAX6163AESA+-ND	3V Precision, Micropower LDO Voltage Reference*	8-SOIC	4.50	3.89	2.97
MAX6163BESA+-ND	3V Precision, Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.37
MAX6164AESA+-ND	4.096V Precision, Micropower LDO Volt. Reference*	8-SOIC	4.50	3.89	2.97
MAX6164BESA+-ND	4.096V Precision, Micropower LDO Volt. Reference*	8-SOIC	3.60	3.11	2.37
MAX6166AESA+-ND	2.5V Precision, Micropower LDO Volt. Reference*	8-SOIC	4.50	3.89	2.97
MAX6166BESA+-ND	2.5V Precision, Micropower LDO Volt. Reference*	8-SOIC	3.60	3.11	2.37
MAX6167AESA+-ND	4.5V Precision, Micropower LDO Volt. Reference*	8-SOIC	4.50	3.89	2.97
MAX6167BESA+-ND	4.5V Precision, Micropower LDO Volt.Reference*	8-SOIC	3.60	3.11	2.37
MAX6173AASA+-ND	2.5V High Prec. Volt. Reference with Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6173BASA+-ND	2.5V High Prec. Volt. Reference with Temp. Sensor*	8-SOIC	4.35	3.89	3.79
MAX6175AASA+-ND	5V High Prec. Voltage Reference with Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6175BASA+-ND	5V High Prec. Voltage Reference with Temp. Sensor*	8-SOIC	4.35	3.89	3.79
MAX6176AASA+-ND	10V High Prec. Volt. Reference with Temp. Sensor*	8-SOIC	6.64	5.93	5.78
MAX6176BASA+-ND	10V High Prec. Volt. Reference with Temp. Sensor*	8-SOIC	4.35	3.89	3.79
MAX6190AESA+-ND	Precision, Micropower LDO Voltage Reference*	8-SOIC	4.50	3.89	2.78
MAX6190CESA+-ND	1.25V, Prec. Micropower LDO Voltage Reference*	8-SOIC	2.61	2.25	1.61
MAX6191AESA+-ND	2.048V, Prec. Micropower LDO Voltage Reference*	8-SOIC	4.50	3.89	2.78
MAX6191BESA+-ND	2.048V, Prec. Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.22
MAX6192AESA+-ND	2.5V, Precision, Micropower, LDO Voltage Reference*	8-SOIC	4.50	3.89	2.78
MAX6192BESA+-ND	2.5V, Prec. Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.22
MAX6192CESA+-ND	2.5V, Prec. Micropower LDO Voltage Reference*	8-SOIC	2.61	2.25	1.61
MAX6193BESA+-ND	3V, Prec. Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.22
MAX6193CESA+-ND	3V, Prec. Micropower LDO Voltage Reference*	8-SOIC	2.61	2.25	1.61
MAX6195AESA+-ND	5V, Precision Micropower LDO Voltage Reference*	8-SOIC	4.50	3.89	2.78

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

MAXIM INNOVATION DELIVERED — Digi-Reel® (Cont.) VOLTAGE REFERENCE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX6195BESA+-ND	5V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.22
MAX6198AESA+-ND	4.096V, Prec. Micropower LDO Voltage Reference*	8-SOIC	4.50	3.89	2.78
MAX6198BESA+-ND	4.096V, Prec. Micropower LDO Voltage Reference*	8-SOIC	3.60	3.11	2.22
MAX6220ASA-2.5+-ND	2.5V, Precision Low Noise Voltage Reference*	8-SOIC	3.57	2.94	2.50
MAX6220ASA-5.0+-ND	5V, Precision Low Noise Voltage Reference*	8-SOIC	3.57	2.94	2.50
MAX6225ACSA+-ND	2.5V, Precision Low Noise Voltage Reference*	8-SOIC	8.86	7.66	5.47
MAX6225AEPA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	9.85	8.51	6.08
MAX6225AESA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-SOIC	9.85	8.51	6.08
MAX6225BCSA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-SOIC	4.29	3.71	2.65
MAX6225BEPA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	4.54	3.92	2.80
MAX6225BESA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-SOIC	4.54	3.92	2.80
MAX6241ACPA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-Dip	8.86	7.66	5.82
MAX6241ACSA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	8.86	7.66	5.47
MAX6241AESA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	9.85	8.51	6.47
MAX6241BCSA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	4.29	3.71	2.83
MAX6241BEPA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-Dip	4.54	3.92	2.98
MAX6241BESA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	4.54	3.92	2.98
MAX6250ACSA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	8.86	7.66	5.82
MAX6250AEPA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-Dip	9.85	8.51	6.47
MAX6250AESA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	9.85	8.51	6.47
MAX6250BCPA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-Dip	4.29	3.71	2.83
MAX6250BCSA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	4.29	3.71	2.83
MAX6250BESA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	4.54	3.92	2.98
MAX6325CSA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-SOIC	12.77	11.03	8.38
MAX6325ESA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-SOIC	14.19	12.26	9.30
MAX6341CSA+-ND	Low-Noise, 4.096V Voltage Reference*	8-SOIC	12.77	11.03	8.38
MAX6341ESA+-ND	Low-Noise, 4.096V Voltage Reference*	8-SOIC	14.19	12.26	9.30
MAX6350CSA+-ND	Low-Noise, 5V Voltage Reference*	8-SOIC	12.77	11.03	8.38
MAX6350CSA+-ND	Low-Noise, 5V Voltage Reference*	8-SOIC	12.77	11.03	8.38
MAX6520EUR+TCT-ND	3-Terminal, 1.2V Voltage Reference*	SOT23-3	2.23	1.68	1.47
MAX6520EUR+TTR-ND	3-Terminal, 1.2V Voltage Reference*	SOT23-3	2625.00/2,500		

MAXIM INNOVATION DELIVERED — 1-WIRE® RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS28E04S-100+-ND	4k-Bit, 1-Wire® EEPROM	16-SOIC	3.82	3.25
DS28EC20+-ND	20k-Bit, 1-Wire® EEPROM ***NEW!***	TO-92-3	4.20	2.80
DS28EC20P+-ND	20k-Bit, 1-Wire® EEPROM ***NEW!***	6-TSOC	4.20	2.80
DS2401+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	TO-92	2.10	1.40
DS2401P+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	2.28	1.52
DS2401P+CT-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	2.28	1.72
DS2401P+TR-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	4300.00/4,000	
DS2401Z+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	SOT-223	2.58	1.72
DS2406+-ND	1-Wire® Dual Channel Addressable Switch ***NEW!***	TO-92-3	7.05	4.70
DS2406P+-ND	1-Wire® Dual Channel Addressable Switch ***NEW!***	6-TSOC	7.68	5.12
DS2411P+-ND	Silicon Serial Number with Vcc Input	6-TSOC	1.80	1.20
DS2411R+CT-ND	Silicon Serial Number with Vcc Input	SOT-23	1.25	.94
DS2411R+TR-ND	Silicon Serial Number with Vcc Input	SOT-23	1762.50/3,000	
DS2413P+-ND	1-Wire® Dual Channel Addressable Switch	6-TSOC	3.12	2.08
DS2417P+-ND	1-Wire® Time Chip with Interrupt	6-TSOC	3.06	2.04
DS2430A+-ND	256-Bit, 1-Wire® EEPROM	TO-92-3	3.84	2.56
DS2430AP+-ND	256-Bit, 1-Wire® EEPROM	6-TSOC	3.99	2.66
DS2431+-ND	1024-Bit 1-Wire® EEPROM	TO-92-3	1.89	1.26
DS2431P+-ND	1024-Bit 1-Wire® EEPROM	6-TSOC	1.89	1.26
DS2431P-A1+-ND	1024-Bit 1-Wire® EEPROM ***NEW!***	6-TSOC	4.20	2.80
DS2433+-ND	4k-Bit, 1-Wire® EEPROM	TO-92-3	6.03	4.02
DS2433S+-ND	4k-Bit, 1-Wire® EEPROM	8-SOIC	6.54	4.36
DS2450S+-ND	1-Wire® Quad A/D Converter	8-SOIC	9.87	6.58
DS2480B+-ND	Serial 1-Wire® Line Driver with Load Sensor	8-SOIC	7.74	5.16
DS2482S-100+-ND	1-Channel 1-Wire® Master	8-SOIC	2.04	1.36
DS2482S-800+-ND	8-Channel 1-Wire® Master	16-SOIC	10.20	6.80
DS9490B#-ND	USB Single F5 iButton Holder with Protective Cap	—	28.04	23.37
DS9490R#-ND	USB to 1-Wire® RJ11	—	28.04	23.37
DS9502P+-ND	ESD Protection Diode	6-TSOC	1.17	.78
DS9503P+-ND	ESD Protection Diode with Resistor	6-TSOC	1.26	.84

MAXIM INNOVATION DELIVERED — COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS21Q43AT-ND	5V, Quad E1 Framer	128-TQFP	82.70	70.90
DS21Q58L+-ND	3.3V, E1 Quad Transceiver* ***NEW!***	100-LQFP	33.75	29.76
DS21Q59L+-ND	3.3V, E1 Quad Transceiver* ***NEW!***	100-LQFP	40.86	36.03
DS21Q352-ND	3.3V, T1 Transceiver	256-BGA	110.50	94.40
DS21Q352N-ND	3.3V, T1 Transceiver, Ind. Temperature	256-BGA	127.08	108.56
DS21Q354B+-ND	3.3V, Quad T1/E1 Transceiver* ***NEW!***	256-BGA	110.50	94.41
DS33R41+-ND	Ethernet Mapper with T1/E1/J1 Transceivers* ***NEW!***	400-BGA	94.50	84.00
DS33X11+-ND	Ethernet-over-PDH Mapper* ***NEW!***	144-CSBGA	26.89	23.90
DS33Z11+-ND	Ethernet Mapper* ***NEW!***	169-CSBGA	24.71	21.96
DS34S101GN+-ND	Single-Port TDM-over-Packet Chip* ***NEW!***	256-CSBGA	35.86	34.29
DS34S102GN+-ND	Dual-Port TDM-over-Packet Chip* ***NEW!***	256-CSBGA	42.07	40.23
DS34T101GN+-ND	Single-Port TDM-over-Packet Chip* ***NEW!***	484-BGA	44.14	42.22
DS34T108GN+-ND	Octal-Port TDM-over-Packet Chip* ***NEW!***	484-BGA	99.31	94.97
DS1863E+-ND	Burst-Mode PON Controller*	16-TSSOP	4.65	3.10
DS2141AQ+-ND	5V, T1 Controller* ***NEW!***	44-PLCC	20.25	18.00
DS2143Q+-ND	5V, E1 Controller* ***NEW!***	44-PLCC	20.55	18.12
DS2143QN+-ND	5V, E1 Controller, Ind. Temp.* ***NEW!***	44-PLCC	23.63	20.83
DS2143Q-ND	5V, E1 Framer Controller	44-PLCC	28.35	24.30
DS2148T+-ND	5V, E1/T1/J1 Line Interface Unit* ***NEW!***	44-TQFP	10.27	9.06
DS2148TN+-ND	5V, E1/T1/J1 Line Interface Unit, Ind. Temp.* ***NEW!***	44-TQFP	11.82	10.42
DS2149Q+-ND	5V, T1/J1 Line Interface Unit* ***NEW!***	28-PLCC	8.22	7.25
DS2151QB-ND	5V, T1 Single-Chip Transceiver	44-PLCC	77.65	58.60
DS2151QB+-ND	5V, T1 Single-Chip Transceiver* ***NEW!***	44-PLCC	26.02	22.95
DS2151QNB-ND	5V, T1 Single-Chip Transceiver, Ind. Temperature	44-PLCC	89.31	67.40
DS2152L+-ND	5V, Enhanced T1 Single-Chip Transceiver*	100-LQFP	36.70	32.30
DS2154L-ND	5V, Enhanced E1 Single-Chip Transceiver	100-LQFP	36.70	32.54
DS2154L+-ND	5V, Enhanced E1 Single-Chip Transceiver*	100-LQFP	23.29	20.53
DS2155L+-ND	T1/E1/J1 Single-Chip Transceiver* ***NEW!***	100-LQFP	16.44	14.49
DS2155LC2+-ND	T1/E1/J1 Single-Chip Transceiver* ***NEW!***	100-LQFP	24.00	22.69
DS2155LN+-ND	T1/E1/J1 Single-Chip Transceiver, Ind. Temp.* ***NEW!***	100-LQFP	18.90	16.67
DS2155LNB+-ND	T1/E1/J1 Single-Chip Transceiver, Ind. Temp.* ***NEW!***	100-LQFP	18.90	16.67
DS2156L+-ND	T1/E1/J1 Single-Chip Transceiver, TDM/UTOPIA II Interface* ***NEW!***	100-LQFP	24.66	21.74
DS2165Q-ND	5V, ADPCM Processor 16/24/32Kpbs	28-PLCC	23.10	19.80

MAXIM INNOVATION DELIVERED (Cont.) COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS2165Q+-ND	5V, ADPCM Processor 16/24/32Kpbs*	28-PLCC	23.10	19.80
DS2165QN+-ND	5V, ADPCM Processor 16/24/32Kbps* ***NEW!***	28-PLCC	26.57	22.77
DS2172T+-ND	Bit Error Rate Tester (BERT), 8-Bit*	32-TQFP	9.54	8.48
DS2175+-ND	T1/CEPT Elastic Store* ***NEW!***	16-Dip	9.79	8.70
DS2175S-ND	T1/CEPT Elastic Store	16-SOIC	14.90	12.80
DS2175S+-ND	T1/CEPT Elastic Store* ***NEW!***	16-SOIC	14.90	12.80
DS2176+-ND	T1 Receive Buffer*	24-Dip	17.00	14.60
DS2176Q-ND	T1 Receive Buffer	28-PLCC	18.70	16.00
DS2180A+-ND	T1 Transceiver*	40-Dip	17.95	15.80
DS2180AQ+-ND	T1 Transceiver* ***NEW!***	44-PLCC	20.55	18.05
DS2180AQN+-ND	T1 Transceiver, Ind. Temp.* ***NEW!***	44-PLCC	23.86	20.99
DS2181A+-ND	CEPT Primary Rate Transceiver*	40-Dip	32.65	28.00
DS2181AQ-ND	CEPT Primary Rate Transceiver	44-PLCC	35.90	30.80
DS2181AQ+-ND	CEPT Primary Rate Transceiver* ***NEW!***	44-PLCC	35.90	30.80
DS2186S+-ND	Transmit Line Interface* ***NEW!***	20-SOIC	13.95	12.40
DS2187-ND	Receive Line Interface	18-Dip	19.30	16.55
DS2187S-ND	Receive Line Interface	20-SOIC	21.20	18.20
DS3106LN+-ND	Line Card Timing IC, Ind. Temp.* ***NEW!***	64-LQFP	22.50	20.00
DS3150Q+-ND	3.3V, DS3/E3/STS-1 Line Interface Unit* ***NEW!***	28-PLCC	21.23	18.72
DS3150QN+-ND	3.3V, DS3/E3/STS-1 Line Interface Unit* ***NEW!***	28-PLCC	24.42	21.53
DS3150T+-ND	3.3V, DS3/E3/STS-1 Line Interface Unit*	48-TQFP	21.92	19.32
DS3251+-ND	Single DS3/E3/STS-1 Line Interface Unit* ***NEW!***	144-CSBGA	25.88	23.00
DS3514T+-ND	I^2C Gamma and VCOM Buffer with EEPROM* ***NEW!***	48-TQFN	7.50	5.00
DS21348G+-ND	3.3V, E1/T1/J1 Line Interface* ***NEW!***	49-CSBGA	10.27	9.06
DS21348T+-ND	3.3V, E1/T1/J1 Line Interface*	44-TQFP	10.27	9.06
DS21348TN+-ND	3.3V, E1/T1/J1 Line Interface*	44-TQFP	11.82	10.42
DS21352L+-ND	3.3V, T1 Single Chip Transceiver* ***NEW!***	100-LQFP	21.92	19.32
DS21352LB+-ND	3.3V, T1 Single Chip Transceiver* ***NEW!***	100-LQFP	21.92	19.32
DS21352LN+-ND	3.3V, T1 Single Chip Transceiver, Ind. Temp.* ***NEW!***	100-LQFP	25.20	22.22
DS21354L-ND	3.3V, E1 Single Chip Transceiver	100-LQFP	29.40	25.97
DS21354L+-ND	3.3V, E1 Single Chip Transceiver*	100-LQFP	21.92	19.32
DS21354LB+-ND	3.3V, E1 Single Chip Transceiver* ***NEW!***	100-LQFP	29.40	25.90
DS21354LC1+-ND	3.3V, E1 Single Chip Transceiver* ***NEW!***	100-LQFP	21.92	19.32
DS21354LN+-ND	3.3V, E1 Single Chip Transceiver, Ind. Temp.* ***NEW!***	100-LQFP	33.80	29.82
DS21372T+-ND	3.3V, Bit Error Rate Tester (BERT), 8-Bit* ***NEW!***	32-TQFP	9.54	8.48
DS21448L+-ND	3.3V, E1/T1/J1 Quad Line Interface*	128-LQFP	34.53	30.69
DS21455+-ND	Quad T1/E1/J1 Transceiver* ***NEW!***	256-BGA	54.78	48.30
DS21455N+-ND	Quad T1/E1/J1 Transceiver, Ind. Temp.* ***NEW!***	256-BGA	62.99	55.55
DS21458+-ND	Quad T1/E1/J1 Transceiver*	256-CSBGA	50.67	44.68
DS21552L+-ND	5V, T1 Single-Chip Transceiver* ***NEW!***	100-LQFP	21.92	19.32
DS21554L+-ND	5V, E1 Single-Chip Transceiver* ***NEW!***	100-LQFP	21.92	19.32
DS21554LB+-ND	5V, E1 Single-Chip Transceiver*	100-LQFP	21.92	19.32
DS21554LN+-ND	5V, E1 Single-Chip Transceiver, Ind. Temp.* ***NEW!***	100-LQFP	25.20	22.22
DS21600N+-ND	3.3V/5V, Clock Rate Adapter, Ind. Temp.* ***NEW!***	8-Dip	24.50	21.60
DS21600SN+-ND	3.3V/5V, Clock Rate Adapter*	16-SOIC	20.55	18.12
DS21602SN+-ND	3.3V/5V, Clock Rate Adapter* ***NEW!***	16-SOIC	24.50	21.60
DS26303L-120+-ND	3.3V, E1/T1/J1 Octal Line Interface Unit* ***NEW!***	144-LQFP	22.50	21.38
DS26303LN-120+-ND	3.3V, E1/T1/J1 Octal Line Interface Unit, Ind. Temp.* ***NEW!***	144-LQFP	25.88	24.59
DS26502L+-ND	T1/E1/J1 64KHz BITS Element* ***NEW!***	64-LQFP	20.55	18.12
DS26502LN+-ND	T1/E1/J1 64KHz BITS Element, Ind. Temp.* ***NEW!***	64-LQFP	27.85	23.92
DS26503L+-ND	T1/E1/J1 BITS Element* ***NEW!***	64-LQFP	15.75	13.92
DS26503LN+-ND	T1/E1/J1 BITS Element, Ind. Temp.* ***NEW!***	64-LQFP	19.50	16.74
DS26504L+-ND	T1/E1/J1 64KHz BITS Element* ***NEW!***	64-LQFP	21.92	19.32
DS26518GN+-ND	8-Port T1/E1/J1 Transceiver, Ind. Temp.* ***NEW!***	256-CSBGA	45.00	40.00
DS26521L+-ND	Single T1/E1/J1 Transceiver* ***NEW!***	64-LQFP	11.70	10.40
DS26521LN+-ND	Single T1/E1/J1 Transceiver, Ind. Temp.* ***NEW!***	64-LQFP	13.47	11.97
DS26524G+-ND	Quad T1/E1/J1 Transceiver* ***NEW!***	256-CSBGA	43.31	38.50
DS26524GN+-ND	Quad T1/E1/J1 Transceiver, Ind. Temp.* ***NEW!***	256-CSBGA	49.80	44.27

MAXIM INNOVATION DELIVERED — Digi-Reel® DIGITAL POTENTIOMETER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1267-010+-ND	Dual Digital Potentiometer Chip, 10K*	14-Dip	9.42	6.28
DS1267-050+-ND	Dual Digital Potentiometer Chip, 50K*	14-Dip	9.42	6.28
DS1267-100+-ND	Dual Digital Potentiometer Chip, 100K*	14-Dip	9.42	6.28
DS1267E-10+-ND	Dual Digital Potentiometer Chip, 10K*	20-TSSOP	11.70	7.80
DS1267E-50+-ND	Dual Digital Potentiometer Chip, 50K* ***NEW!***	20-TSSOP	11.70	7.80
DS1267E-100+-ND	Dual Digital Potentiometer Chip, 100K* ***NEW!***	20-TSSOP	11.70	7.80
DS1267S-010+-ND	Dual Digital Potentiometer Chip, 10K*	16-SOIC	10.83	7.22
DS1267S-050+-ND	Dual Digital Potentiometer Chip, 50K*	16-SOIC	10.83	7.22
DS1267S-100+-ND	Dual Digital Potentiometer Chip, 100K*	16-SOIC	10.83	7.22
DS1669-50+-ND	Dallastat Digital Potentiometer, 50K* ***NEW!***	8-Dip	7.71	5.14
DS1669S-50+-ND	Dallastat Digital Potentiometer, 50K* ***NEW!***	8-SOIC	8.13	5.42
DS1801+-ND	Dual Audio Taper Potentiometer* ***NEW!***	14-Dip	7.32	4.88
DS1801E-014+-ND	Dual Audio Taper Potentiometer*	14-TSSOP	8.49	5.66
DS1801S+-ND	Dual Audio Taper Potentiometer* ***NEW!***	16-SOIC	7.83	5.22
DS1802+-ND	Dual Audio Taper Potentiometer w/Pushbutton Ctrl.* ***NEW!***	20-PDip	8.10	5.40
DS1802S+-ND	Dual Audio Taper Potentiometer w/Pushbutton Ctrl.* ***NEW!***	20-SOIC	9.78	6.52
DS1803E-010+-ND	Addressable Dual Digital Potentiometer, 10K*	14-TSSOP	7.77	5.18
DS1803E-050+-ND	Addressable Dual Digital Potentiometer, 50K* ***NEW!***	14-TSSOP	7.77	5.18
DS1803E-100+-ND	Addressable Dual Digital Potentiometer, 100K* ***NEW!***	14-TSSOP	7.77	5.18
DS1803Z-010+-ND	Addressable Dual Digital Potentiometer, 10K*	16-SOIC	7.23	4.82
DS1803Z-050+-ND	Addressable Dual Digital Potentiometer, 50K*	16-SOIC	7.23	4.82
DS1803Z-100+-ND	Addressable Dual Digital Potentiometer, 100K*	16-SOIC	7.23	4.82
DS1804-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-Dip	3.51	2.34
DS1804-050+-ND	Nonvolatile Trimmer Potentiometer, 50K*	8-Dip	3.51	2.34
DS1804-100+-ND	Nonvolatile Trimmer Potentiometer, 100K*	8-Dip	3.51	2.34
DS1804U-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-µSOP	3.90	2.60
DS1804U-050+-ND	Nonvolatile Trimmer Potentiometer, 50K* ***NEW!***	8-µSOP	3.90	2.60
DS1804U-100+-ND	Nonvolatile Trimmer Potentiometer, 100K* ***NEW!***	8-µSOP	3.90	2.60
DS1804Z-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-SOIC	3.66	2.44
DS1804Z-050+-ND	Nonvolatile Trimmer Potentiometer, 50K*	8-SOIC	3.66	2.44
DS1804Z-100+-ND	Nonvolatile Trimmer Potentiometer, 100K*	8-SOIC	3.66	2.44
DS1805E-010+-ND	Addressable Digital Potentiometer* ***NEW!***	14-TSSOP	3.00	2.00
DS1805Z-010+-ND	Addressable Digital Potentiometer* ***NEW!***	16-SOIC	3.00	2.00
DS1806E-010+-ND	Digital Sextet Potentiometer, 10K*	20-TSSOP	13.68	9.12
DS1806E-050-ND	Digital Sextet Potentiometer, 50K	20-TSSOP	13.68	9.12
DS1806E-050+-ND	Digital Sextet Potentiometer, 50K*	20-TSSOP	13.68	9.12
DS1806E-100+-ND	Digital Sextet Potentiometer, 100K* ***NEW!***	20-TSSOP	13.68	9.12
DS1806S-050+-ND	Digital Sextet Potentiometer, 50K* ***NEW!***	20-SOIC	13.41	8.94
DS1807+-ND	Addressable Dual Audio Taper Potentiometer* ***NEW!***	14-Dip	7.32	4.88
DS1807E+-ND	Addressable Dual Audio Taper Potentiometer* ***NEW!***	14-TSSOP	8.49	5.66
DS1807S+-ND	Addressable Dual Audio Taper Potentiometer* ***NEW!***	16-SOIC	7.83	5.22
DS1808Z-050+-ND	Dual Log Digital Potentiometer, 50K*	16-SOIC	7.35	4.90

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* ***RoHS Compliant***

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(Continued)

INNOVATION DELIVERED Digi-Reel® *(Cont.)* DIGITAL POTENTIOMETER

Digi-Key			Price Each★	
Part No.	Description	Pkg.	1	25
DS1809-010+-ND	Dallastat,™ 10K* ***NEW!***	8-Dip	3.63	2.42
DS1809U-010+-ND	Dallastat™, 10K* ***NEW!***	8-μSOP	4.05	2.70
DS1809Z-010+-ND	Dallastat™, 10K*	8-SOIC	3.78	2.52
DS1809Z-050+-ND	Dallastat™, 50K* ***NEW!***	8-SOIC	3.78	2.52
DS1844-010+-ND	Quad Digital Potentiometer, 10K* ***NEW!***	20-PDip	6.72	4.48
DS1844-100+-ND	Quad Digital Potentiometer, 100K* ***NEW!***	20-PDip	6.72	4.48
DS1844E-010+-ND	Quad Digital Potentiometer, 10K* ***NEW!***	20-TSSOP	6.42	4.28
DS1844E-050+-ND	Quad Digital Potentiometer, 50K* ***NEW!***	20-TSSOP	6.42	4.28
DS1844E-100+-ND	Quad Digital Potentiometer, 100K* ***NEW!***	20-TSSOP	6.42	4.28
DS1844S-010+-ND	Quad Digital Potentiometer, 10K* ***NEW!***	20-SOIC	6.54	4.36
DS1844S-050+-ND	Quad Digital Potentiometer, 50K* ***NEW!***	20-SOIC	6.54	4.36
DS1844S-100+-ND	Quad Digital Potentiometer, 100K* ***NEW!***	20-SOIC	6.54	4.36
DS1845E-010+-ND	Dual Nonvolatile Potentiometer and Memory, 10K*	14-TSSOP	4.32	2.88
DS1845E-100+-ND	Dual Nonvolatile Potentiometer and Memory, 100K*	14-TSSOP	4.32	2.88
DS1846E-010+-ND	Nonvolatile Tri-Potentiometer with Memory, MicroMonitor* ***NEW!***	20-TSSOP	6.72	4.48
DS1862B+-ND	XFP Laser Control and Digital Diagnostic IC*	25-CSBGA	6.00	4.00
DS1866Z-ND	2.7V to 5.5V, Log Trimmer Potentiometer	8-Dip	3.33	2.22
DS1866Z+-ND	2.7V to 5.5V, Log Trimmer Potentiometer*	8-SOIC	3.33	2.22
DS1867-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	14-Dip	9.96	6.64
DS1867-50+-ND	Dual Digital Potentiometer with EEPROM, 50K*	14-Dip	9.96	6.64
DS1867E-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	20-TSSOP	11.31	7.54
DS1867S-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	16-SOIC	11.01	7.34
DS1867S-50+-ND	Dual Digital Potentiometer with EEPROM, 50K* ***NEW!***	16-SOIC	11.01	7.34
DS1867S-100+-ND	Dual Digital Potentiometer with EEPROM, 100K* ***NEW!***	16-SOIC	11.01	7.34
DS1868-10+-ND	Dual Digital Potentiometer Chip, 10K*	14-Dip	6.33	4.22
DS1868E-10+-ND	Dual Digital Potentiometer Chip, 10K*	20-TSSOP	7.68	5.12
DS1868S-10+-ND	Dual Digital Potentiometer Chip, 10K*	16-SOIC	6.66	4.44
DS1869-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K*	8-Dip	6.39	4.26
DS1869-100+-ND	3V, Dallastat™ Electronic Digital Rheostat, 100K* ***NEW!***	8-Dip	6.39	4.26
DS1869S-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K*	8-SOIC	6.66	4.44
DS1869S-50+-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K*	8-SOIC	6.66	4.44
DS1869S-100+-ND	3V, Dallastat™ Electronic Digital Rheostat, 100K* ***NEW!***	8-SOIC	6.66	4.44
DS1870E-010+-ND	LDMOS RF Power-Amplifier Bias Controller* ***NEW!***	16-TSSOP	10.59	7.06
DS1875T+-ND	PON Triplexer and SFP Controller* ***NEW!***	38-TQFN	8.40	5.60
DS1881Z-050+-ND	Dual NV Audio Taper Digital Potentiometer, 45K* ***NEW!***	16-SOIC	2.55	1.70
DS1882Z-050+-ND	Dual Log Audio Digital Potentiometer, 45K* ***NEW!***	16-SOIC	3.15	2.10
DS3501U+-ND	High Voltage, Nonvolatile, I^{2}C Potentiometer with Temperature Sensor/Lookup Table*	8-μSOP	1.35	.90
DS3903E-020+-ND	Triple 128-Pos. Nonvolatile Digital Potentiometer* ***NEW!***	20-TSSOP	2.79	1.86
DS3904U-020+-ND	Triple 128-Pos. Nonvolatile Digital Variable Resistor/Switch*	8-μSOP	2.04	1.36
DS3905U-020+-ND	Triple 128-Pos. Nonvolatile Digital Variable Resistor/ Switch* ***NEW!***	10-μSOP	2.19	1.46
DS3906U+-ND	Triple Nonvolatile Variable Resistor Plus Memory* ***NEW!***	10-μSOP	3.72	2.48
DS3930E+-ND	Hex Nonvolatile Potentiometer with I/O, Memory* ***NEW!***	20-TSSOP	5.25	3.50
DS18030-010+-ND	Addressable Dual Digital Potentiometer, 10K* ***NEW!***	16-Dip	6.66	4.44
DS18030-050+-ND	Addressable Dual Digital Potentiometer, 50K* ***NEW!***	16-Dip	6.66	4.44
DS18030-100+-ND	Addressable Dual Digital Potentiometer, 100K* ***NEW!***	16-Dip	6.66	4.44

INNOVATION DELIVERED iButton®

RoHS Compliant

Digi-Key			Price Each★	
Part No.	Description	Pkg.	1	25
DS1904L-F5#-ND	RTC iButton ***NEW!***	F5-MicroCAN	10.29	6.86
DS1920-F5+-ND	Temperature iButton ***NEW!***	F5-MicroCAN	11.00	8.30
DS1921G-F5#-ND	Thermochron® iButton ***NEW!***	F5-MicroCAN	25.00	21.00
DS1921H-F5#-ND	Thermochron® iButton ***NEW!***	F5-MicroCAN	25.00	21.00
DS1921K#-ND	Thermochron® iButton Starter Kit ***NEW!***	—	63.75	—
DS1921Z-F5#-ND	Thermochron® iButton ***NEW!***	F5-MicroCAN	25.00	21.00
DS1922E-F5#-ND	High Temp. Logger iButton with 8K Data-Log Memory ***NEW!***	F5-iButton	95.00	80.00
DS1922L-F5#-ND	Temperature Logger iButton ***NEW!***	F5-MicroCAN	51.00	43.75
DS1922T-F5#-ND	Temperature Logger iButton ***NEW!***	F5-MicroCAN	74.00	63.00
DS1923-F5#-ND	Temperature/Humidity Logger iButton ***NEW!***	F5-MicroCAN	95.00	80.00
DS1961S-F3+-ND	1K-Bit Protected EEPROM iButton ***NEW!***	F3-MicroCAN	7.26	4.84
DS1961S-F5+-ND	1K-Bit Protected EEPROM iButton ***NEW!***	F5-MicroCAN	7.26	4.84
DS1963S-F5+-ND	Monetary iButton with SHA-1 Function ***NEW!***	F5-MicroCAN	17.61	11.74
DS1971-F3+-ND	256-Bit EEPROM iButton ***NEW!***	F3 MicroCAN	5.79	3.86
DS1971-F5+-ND	256-Bit EEPROM	F5-MicroCAN	5.79	3.86
DS1972-F5+-ND	1024-Bit EEPROM iButton ***NEW!***	F5-iButton	5.79	3.86
DS1973-F3+-ND	4Kbit EEPROM iButton ***NEW!***	F3-MicroCAN	8.13	5.42
DS1973-F5+-ND	4Kbit EEPROM iButton ***NEW!***	F5-MicroCAN	8.13	5.42
DS1977-F5#-ND	32K-Bit EEPROM ***NEW!***	F5-iButton	23.01	15.34
DS1982-F3+-ND	1024-Bit EPROM iButton ***NEW!***	F3-MicroCAN	4.92	3.28
DS1982-F5+-ND	1024-Bit EPROM iButton ***NEW!***	F5-MicroCAN	4.92	3.28
DS1985-F5+-ND	16Kbit EPROM Add-Only iButton ***NEW!***	F5-MicroCAN	6.93	4.62
DS1990A-F3+-ND	Serial Number Data Carrier	F3-MicroCAN	4.11	2.74
DS1990A-F5+-ND	Serial Number Data Carrier	F5-MicroCAN	4.11	2.74
DS1990R-F3#-ND	Serial Number iButton ***NEW!***	F3-MicroCAN	4.11	2.74
DS1990R-F5#-ND	Serial Number iButton ***NEW!***	F5-MicroCAN	4.11	2.74
DS1992L-F5+-ND	1K-Bit Read/Write Nonvolatile Memory	F5-MicroCAN	12.45	8.30
DS1993L-F5+-ND	4K-Bit Read/Write Nonvolatile Memory	F5-MicroCAN	14.34	9.56
DS1995L-F5+-ND	16K-Bit Read/Write Nonvolatile Memory	F5-MicroCAN	17.61	11.74
DS1996L-F5+-ND	64K-Bit Read/Write Nonvolatile Memory	F5-MicroCAN	21.39	14.26
	Accessories			
DS1401-4+-ND	4 Button Front Panel iButton Holder ***NEW!***	—	17.54	13.49
DS1402-BP8+-ND	iButton Probe Cable, 8 Foot Length ***NEW!***	—	6.78	5.76
DS1402-BR8+-ND	1-Wire Network Cable, 8 Foot Length ***NEW!***	—	4.25	4.00
DS1402-RP3+-ND	iButton Probe Cable, 3 Foot Length ***NEW!***	—	5.11	4.35
DS1402-RP8+-ND	iButton Probe Cable, 8 Foot Length	—	6.16	5.24
DS1402D-41+-ND	iButton Blue Dot Reader	—	4.26	3.28
DS1402D-DB8+-ND	Blue Dot Receptor Cable, 8 Foot Length ***NEW!***	—	8.49	7.08
DS1402D-DR8+-ND	Blue Dot Receptor Cable, 8 Foot Length	—	8.49	7.08
DS1404+-ND	Touch and Hold Probe Cable Cradle, Black ***NEW!***	—	6.78	5.21
DS1411-009#-ND	Serial Port iButton Holder ***NEW!***	—	32.20	26.84
DS1411-S09#-ND	Serial Port iButton Holder ***NEW!***	—	31.50	26.25
DS1413#-ND	Passive Serial Port iButton Holder ***NEW!***	—	15.42	12.85
DS9092+-ND	Solid Face Read/Write Panel-Mount Probe	—	8.94	7.45
DS9092GT#-ND	Hand Grip Mount for iButton Probe ***NEW!***	—	32.20	26.83
DS9092K#-ND	iButton Starter Kit ***NEW!***	—	74.38	—
DS9092L+-ND	Solid Read/Write Panel-Mount Probe with Green LED	—	9.72	8.10
DS9092R+-ND	iButton Port ***NEW!***	—	1.70	1.42

INNOVATION DELIVERED *(Cont.)* iButton®

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Digi-Key			Price Each★	
Part No.	Description	Pkg.	1	25
DS9092T#-ND	iButton Probe	—	15.98	13.32
DS9093A+-ND	Snap-In Angled Key Ring Mount for F5 iButton, Black	—	.81	.68
DS9093AG+-ND	Snap-In Angled Key Ring Mount for F5 iButton, Green	—	1.03	.86
DS9093AR+-ND	iButton Key Ring Mount, Red ***NEW!***	—	.90	.75
DS9093AY+-ND	iButton Key Ring Mount, Yellow ***NEW!***	—	.81	.68
DS9093F+-ND	Snap-In Fob for F5 MicroCAN, Black	—	1.36	1.14
DS9093N+-ND	Angled Fob for F5 MicroCAN, Black ***NEW!***	—	1.16	.97
DS9093RA+-ND	Lock Ring for iButton ***NEW!***	—	.60	.50
DS9093RB+-ND	Flange for iButton Lock Ring ***NEW!***	—	1.24	1.03
DS9093S+-ND	iButton Wall Mount ***NEW!***	—	.81	.78
DS9094F+-ND	PCB Clip for F5 iButton, Through-Hole Mount	—	2.28	1.80
DS9094FS+-ND	PCB Clip for F5 iButton, Surface Mount	—	2.34	1.95
DS9094-SM5+-ND	Surface Mount iButton Clip ***NEW!***	—	1.83	1.53
DS9096P+-ND	iButton Adhesive Pads (Roll of 500) ***NEW!***	—	68.00	56.67
DS9097#-ND	COM Port Adapter, DB-9 Version ***NEW!***	—	21.59	17.99
DS9097E#-ND	COM Port Adapter, DB-25 Version ***NEW!***	—	39.28	32.74
DS9097U-009#-ND	Universal 1 Wire Com Port Adapter ***NEW!***	—	28.95	24.13
DS9097U-E25#-ND	Universal 1 Wire Com Port Adapter ***NEW!***	—	51.50	42.91
DS9097U-S09#-ND	Universal 1 Wire Com Port Adapter ***NEW!***	—	28.44	23.70
DS9098P-TRL+CT-ND	Compact Retainer for F5 iButton Mounting	—	2.52	1.90
DS9098P-TRL+TR-ND	Compact Retainer for F5 iButton Mounting	—	261.25/220	
DS9100-A+-ND	Touch and Hold Probe Stamping	—	2.94	1.96
DS9100-B+-ND	Touch and Hold Probe Stamping ***NEW!***	—	3.39	2.26
DS9100-C+-ND	Touch and Hold Probe Stamping ***NEW!***	—	2.94	1.96
DS9105-SET#-ND	iButton Complete 12-Number Set ***NEW!***	—	41.40	34.80

INNOVATION DELIVERED INTERFACE

RoHS Compliant

Digi-Key			Price Each★	
Part No.	Description	Pkg.	1	25
DS2118MB+-ND	Ultra2 LVD/SE SCSI Terminator	36-SSOP	3.75	2.50
DS2119ME+-ND	Ultra3 LVD/SE SCSI Terminator	28-TSSOP	3.54	2.36
DS8007-ENG+-ND	Multiprotocol Dual Smart Card Interface ***NEW!***	48-LQFP	6.96	4.64

INNOVATION DELIVERED MEMORY

Digi-Key			Price Each★	
Part No.	Description	Pkg.	1	25
DS1218S+-ND	Nonvolatile Controller Chip*	8-SOIC	14.94	9.96
DS1220AB-150+-ND	Nonvolatile SRAM, 16k, 5%, 150nS*	24-Dip	17.85	11.90
DS1220AB-200+-ND	Nonvolatile SRAM, 16k, 5%, 200nS*	24-Dip	15.75	10.50
DS1220AD-100IND+-ND	Nonvolatile SRAM, 16k, 10%, 100nS, Ind. Temp.*	24-Dip	19.23	12.82
DS1220AD-120+-ND	Nonvolatile SRAM, 16k, 10%, 120nS*	24-Dip	7.63	—
DS1220AD-150+-ND	Nonvolatile SRAM, 16k, 10%, 150nS*	24-Dip	7.44	—
DS1220AD-200+-ND	Nonvolatile SRAM, 16k, 10%, 200nS*	24-Dip	17.85	11.90
DS1225AB-85+-ND	Nonvolatile SRAM, 64k, 5%, 85nS*	28-Dip	22.86	15.24
DS1225AB-150+-ND	Nonvolatile SRAM, 64k, 5%, 150nS*	28-Dip	22.32	14.88
DS1225AB-200+-ND	Nonvolatile SRAM, 64k, 5%, 200nS*	28-Dip	16.65	11.10
DS1225AD-85+-ND	Nonvolatile SRAM, 64k, 10%, 85nS*	28-Dip	22.86	15.24
DS1225AD-150+-ND	Nonvolatile SRAM, 64k, 10%, 150nS*	28-Dip	22.32	14.88
DS1225AD-150IND+-ND	Nonvolatile SRAM, 64k, 10%, 150nS*	28-Dip	17.28	11.52
DS1225AD-200+-ND	Nonvolatile SRAM, 64k, 10%, 200nS*	28-Dip	22.32	14.88
DS1225Y-150+-ND	Nonvolatile SRAM, 64k, 10%, 150nS*	28-Dip	21.18	14.12
DS1225Y-200+-ND	Nonvolatile SRAM, 64k, 10%, 200nS*	28-Dip	21.18	14.12
DS1230AB-70+-ND	Nonvolatile SRAM, 256k, 5%, 70nS*	28-Dip	13.08	12.87
DS1230AB-70IND+-ND	Nonvolatile SRAM, 256k, 5%, 70nS, Ind. Temp.*	28-Dip	13.73	13.50
DS1230AB-100+-ND	Nonvolatile SRAM, 256k, 5% 100nS* ***NEW!***	28-Dip	12.76	12.57
DS1230AB-120+-ND	Nonvolatile SRAM, 256k, 5%, 120nS*	28-Dip	12.76	12.57
DS1230AB-200+-ND	Nonvolatile SRAM, 256k, 5%, 200nS*	28-Dip	12.76	12.57
DS1230Y-70+-ND	Nonvolatile SRAM, 256k, 10%, 70nS*	28-Dip	13.08	12.87
DS1230Y-70IND+-ND	Nonvolatile SRAM, 256k, 10%, 70nS, Ind. Temp.*	28-Dip	25.05	16.70
DS1230Y-85+-ND	Nonvolatile SRAM, 256k, 10%, 85nS*	28-Dip	13.08	12.87
DS1230Y-100+-ND	Nonvolatile SRAM, 256k, 10%, 100nS*	28-Dip	23.55	15.70
DS1230Y-120+-ND	Nonvolatile SRAM, 256k, 10%, 120nS*	28-Dip	23.55	15.70
DS1230Y-150+-ND	Nonvolatile SRAM, 256k, 10%, 150nS*	28-Dip	12.76	12.57
DS1230Y-200+-ND	Nonvolatile SRAM, 256k, 10%, 200nS*	28-Dip	23.55	15.70
DS1243Y-120+-ND	Nonvolatile SRAM w/ Phantom Clock, 64k, 120nS*	28-Dip	19.77	15.54
DS1244WP-120+-ND	Nonvolatile SRAM w/ Phantom Clock, 256k, 120nS* ***NEW!***	34-PCM▲	23.14	18.19
DS1244Y-70+-ND	Nonvolatile SRAM w/ Phantom Clock, 256k, 70nS*	28-Dip	23.14	18.19
DS1245AB-120+-ND	Nonvolatile SRAM, 1024k, 5%, 120nS*	32-Dip	17.95	17.67
DS1245W-150+-ND	Nonvolatile SRAM, 1024k, 150nS*	32-Dip	17.95	17.67
DS1245Y-70+-ND	Nonvolatile SRAM, 1024k, 10%, 70nS*	32-Dip	18.31	18.03
DS1245Y-70IND+-ND	Nonvolatile SRAM, 1024k, 10%, 70nS, Ind. Temp.*	32-Dip	19.23	18.93
DS1245Y-100+-ND	Nonvolatile SRAM, 1024k, 10%, 100nS*	32-Dip	17.95	17.67
DS1245Y-120+-ND	Nonvolatile SRAM, 1024k, 10%, 120nS*	32-Dip	17.95	17.67
DS1245YP-100+-ND	Nonvolatile SRAM, 1024k, 10%, 100nS*	34-PCM	14.59	14.09
DS1248Y-70+-ND	Nonvolatile SRAM, 1024k, 10% 70nS* ***NEW!***	32-EDip	30.17	23.70
DS1248YP-70+-ND	Nonvolatile SRAM w/ Phantom Clock, 1024k, 70nS* ***NEW!***	34-PCM▲	30.17	23.70
DS1250WP-150-ND	Nonvolatile SRAM, 4096k, 150nS	34-PCM	53.17	52.04
DS1250Y-70IND+-ND	Nonvolatile SRAM, 4096k, 70nS, Ind. Temp.*	32-EDip	58.23	57.29
DS1250Y-100+-ND	Nonvolatile SRAM, 4096k, 100nS*	32-Dip	56.53	55.62
DS1642-100+-ND	Nonvolatile Timekeeping RAM, 100nS*	24-EDip	27.24	18.16
DS1643-100+-ND	Nonvolatile Timekeeping RAM, 100nS, 700mil.*	28-EDip	28.35	18.90
DS1644-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	28-EDip	20.06	15.76
DS1644P-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	29.43	19.62
DS1646-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	32-Dip	28.32	22.25
DS1646P-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	25.17	19.78
DS1647-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	32-EDip	34.77	27.32
DS2502+-ND	1K-Bit Add-Only Memory*	TO-92-3	4.29	2.86
DS2502-E48+-ND	48-Bit Node Address Chip*	TO-92-3	4.44	2.96
DS2502-E64+-ND	64-Bit Node Address Chip* ***NEW!***	TO-92-3	4.44	2.96
DS2502P+-ND	1K-Bit Add-Only Memory*	6-TSOC	4.77	3.18
DS2502P-E48+-ND	1K-Bit Add-Only Memory*	6-TSOC	4.44	2.96
DS2502P-E64+-ND	64-Bit Node Address Chip* ***NEW!***	6-TSOP	4.44	2.96
DS2502S+-ND	1K-Bit Add-Only Memory*	8-SOIC	5.22	3.48
DS2505+-ND	16K-Bit Add-Only Memory*	TO-92-3	4.95	3.30
DS2505P+-ND	16K-Bit Add-Only Memory*	6-TSOC	4.95	3.30
DS9034I-PCX+-ND	PowerCap Module with Crystal* ***NEW!***	PowerCap Module	13.77	9.18
DS9034PC+-ND	PowerCap Module without Crystal*	PowerCap Module	10.95	7.30
DS9034PCX+-ND	PowerCap Module with Crystal*	PowerCap Module	11.16	7.44

▲ DS9034PCX PowerCap required; order DS9034PCX+-ND

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

RESET

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1232LPN+-ND	Low Power MicroMonitor Chip*	8-Dip	2.94	1.96
DS1233-5+-ND	5V, EconoReset, 5%*	TO-92	1.56	1.04
DS1233-10+-ND	5V, EconoReset, 10%*	TO-92	1.56	1.04
DS1233A-10+-ND	3.3V, EconoReset, 10%*	TO-92	1.47	.98
DS1233A-15+-ND	3.3V, EconoReset, 15%*	TO-92	1.56	1.04
DS1233AZ-10+-ND	3.3V, EconoReset, 10%*	SOT-223	2.55	1.70
DS1233AZ-10+CT-ND	3.3V, EconoReset, 10%*	SOT-223	2.09	1.58
DS1233AZ-10+TR-ND	3.3V, EconoReset, 10%*	SOT-223	2624.99/2,500	
DS1233AZ-15+-ND	3.3V, EconoReset, 15%*	SOT-223	2.73	1.82
DS1233D-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%*	TO-92	1.46	1.10
DS1233D-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%*	TO-92	1500.00/2,000	
DS1233D-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%*	TO-92	1.46	1.10
DS1233D-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%*	TO-92	1500.00/2,000	
DS1233D-15+-ND	5V, EconoReset, No Pushbutton Reset, 15%*	TO-92	1.56	1.04
DS1233DZ-5+-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	2.55	1.70
DS1233DZ-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	2.62	1.98
DS1233DZ-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	3350.01/2,500	
DS1233DZ-10+-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2.55	1.70
DS1233DZ-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2.09	1.58
DS1233DZ-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2624.99/2,500	
DS1233DZ-15+-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	2.55	1.70
DS1233DZ-15+CT-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	2.62	1.98
DS1233DZ-15+TR-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	3350.01/2,500	
DS1233M-5+-ND	5V, EconoReset*	TO-92	1.56	1.04
DS1233M-55+-ND	5V, EconoReset*	TO-92	1.56	1.04
DS1233MS-3+-ND	3.3V, EconoReset*	8-SOIC	3.27	2.18
DS1233MS-5+-ND	5V, EconoReset*	8-SOIC	3.27	2.18
DS1233Z-5+-ND	EconoReset, 5%*	SOT-223	2.55	1.70
DS1233Z-10+-ND	EconoReset, 10%*	SOT-223	2.73	1.82
DS1233Z-15+-ND	EconoReset, 15%*	SOT-223	2.73	1.82
DS1810-5+CT-ND	5V, EconoReset with Push-Pull Output, 5%*	TO-92	1.19	.90
DS1810-5+TR-ND	5V, EconoReset with Push-Pull Output, 5%*	TO-92	1220.00/2,000	
DS1811-5+CT-ND	5V, EconoReset with Open Drain Output, 5%*	TO-92	1.19	.90
DS1811-5+TR-ND	5V, EconoReset with Open Drain Output, 5%*	TO-92	1220.00/2,000	
DS1811-10+CT-ND	5V, EconoReset with Open Drain Output, 10%*	TO-92	.98	.74
DS1811-10+TR-ND	5V, EconoReset with Open Drain Output, 10%*	TO-92	980.00/2,000	
DS1811-15-ND	5V, EconoReset with Open Drain Output, 15%	TO-92	1.26	.84
DS1811-15+CT-ND	5V, EconoReset with Open Drain Output, 15%*	TO-92	1.19	.90
DS1811-15+TR-ND	5V, EconoReset with Open Drain Output, 15%*	TO-92	1220.00/2,000	
DS1811R-5+CT-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1.03	.78
DS1811R-5+TR-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1620.01/3,000	
DS1811R-10+CT-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	.80	.60
DS1811R-10+TR-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	1200.00/3,000	
DS1812-5+CT-ND	5V, EconoReset with Active High Push-Pull Output, 5%*	TO-92	1.19	.90
DS1812-5+TR-ND	5V, EconoReset with Active High Push-Pull Output, 5%*	TO-92	1220.00/2,000	
DS1812-10+CT-ND	5V, EconoReset with Active High Push-Pull Output, 10%*	TO-92	1.19	.90
DS1812-10+TR-ND	5V, EconoReset with Active High Push-Pull Output, 10%*	TO-92	1220.00/2,000	
DS1813-5+CT-ND	5V, EconoReset with Pushbutton, 5%*	TO-92	1.19	.90
DS1813-5+TR-ND	5V, EconoReset with Pushbutton, 5%*	TO-92	1220.00/2,000	
DS1813-10+CT-ND	5V, EconoReset with Pushbutton, 10%*	TO-92	1.19	.90
DS1813-10+TR-ND	5V, EconoReset with Pushbutton, 10%*	TO-92	1220.00/2,000	
DS1813R-5+CT-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	.80	.60
DS1813R-5+TR-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	1200.00/3,000	
DS1815-10+CT-ND	3.3V, EconoReset with Push-Pull Output, 10%*	TO-92	1.19	.90
DS1815-10+TR-ND	3.3V, EconoReset with Push-Pull Output, 10%*	TO-92	1220.00/2,000	
DS1817-5+-ND	3.3V, EconoReset with Push-Pull Output, 5%* ***NEW!***	TO-92	1.26	.84
DS1817-20+-ND	3.3V, EconoReset with Push-Pull Output, 20%*	TO-92	1.26	.84
DS1818-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%*	TO-92	1.19	.90
DS1818-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%*	TO-92	1220.00/2,000	
DS1818R-5+CT-ND	3.3V, EconoReset with Pushbutton, 5%*	SOT-23	1.03	.78
DS1818R-5+TR-ND	3.3V, EconoReset with Pushbutton, 5%*	SOT-23	1620.01/3,000	
DS1818R-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	.80	.60
DS1818R-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	1200.00/3,000	
DS1833-5+-ND	5V, Microprocessor EconoReset, 5%*	TO-92	2.04	1.36
DS1833-10+-ND	5V, Microprocessor EconoReset, 10%*	TO-92	2.04	1.36
DS1833Z-5+CT-ND	5V, Microprocessor EconoReset, 5%*	SOT-223	3.37	2.54
DS1833Z-5+TR-ND	5V, Microprocessor EconoReset, 5%*	SOT-223	3968.75/2,500	
DS1833Z-10+-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	3.57	2.38
DS1833Z-10+CT-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	3.37	2.54
DS1833Z-10+TR-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	3968.75/2,500	
DS1834+-ND	Dual Microprocessor EconoReset w/ Pushbutton* ***NEW!***	8-Dip	2.73	1.82
DS1834AS+-ND	Dual Microprocessor EconoReset with Pushbutton*	8-SOIC	2.73	1.82
DS1834AU+CT-ND	Dual Microprocessor EconoReset with Pushbutton*	8-MSOP	2.68	2.02
DS1834AU+TR-ND	Dual Microprocessor EconoReset with Pushbutton*	8-MSOP	4140.01/3,000	
DS1834S+-ND	Dual Microprocessor EconoReset with Pushbutton*	8-SOIC	2.73	1.82

REAL-TIME CLOCK

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS4M125D+33-ND	125MHz Margining Clock Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.71	15.14
DS4M133D+33-ND	133.33MHz Margining Clock Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.71	15.14
DS4M200D+33-ND	200MHz Margining Clock Oscillator, LVDS Output* ***NEW!***	10-LCCC	27.84	18.56
DS12C887+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	10.14	6.76
DS12C887A+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-EDip	11.88	7.92
DS12CR887-5+-ND	Real-Time Clock with Constant-Voltage Trickle Charger* ***NEW!***	24-EDip	8.46	5.64
DS12CR887-33+-ND	Real-Time Clock with Constant-Voltage Trickle Charger* ***NEW!***	24-EDip	8.46	5.64
DS12R885S-33+-ND	Real-Time Clock with Constant-Voltage Trickle Charger* ***NEW!***	24-SOIC	4.14	2.76
DS32B35-33#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	13.14	8.76
DS32B35-33IND#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	14.76	9.84
DS32C35-33#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	15.87	10.58
DS32C35-33IND#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	17.49	11.66
DS1283S-ND	Watchdog Timekeeper Chip	28-SOIC	11.00	8.30
DS1302+-ND	Trickle Charge Timekeeping Chip, 300mil.*	8-Dip	3.75	2.50
DS1302N+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-Dip	4.68	3.12
DS1302S+-ND	Trickle Charge Timekeeping Chip, 300mil.*	8-SOIC	3.75	2.50
DS1302SN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-SOIC	4.68	3.12
DS1302Z+-ND	Trickle Charge Timekeeping Chip, 150mil*	8-SOIC	3.75	2.50
DS1305N+-ND	Serial Alarm RTC, 96-Byte Battery-Backed NV RAM*	16-Dip	6.33	4.22
DS1306+-ND	Serial Alarm Real-Time Clock*	16-Dip	5.73	3.82
DS1338U-33+-ND	56-Byte Battery-Backed NV RAM, I^{2}C Serial Interface*	8-µSOP	3.48	2.32

REAL-TIME CLOCK

(Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1302Z+CT-ND	Trickle Charge Timekeeping Chip, 150mil.*	8-SOIC	2.99	2.26
DS1302Z+TR-ND	Trickle Charge Timekeeping Chip, 150mil.*	8-SOIC	3531.25/2,500	
DS1302ZN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-SOIC	4.11	2.74
DS1305+-ND	Serial Alarm Real-Time Clock, 300mil.*	16-Dip	5.73	3.82
DS1305E+-ND	Serial Alarm Real-Time Clock, 173mil.*	20-TSSOP	5.73	3.82
DS1305EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature*	20-TSSOP	6.30	4.20
DS1306E+-ND	Serial Alarm Real-Time Clock, 4.4mil.*	20-TSSOP	5.73	3.82
DS1306EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature*	20-TSSOP	6.33	4.22
DS1306N+-ND	Serial Alarm Real-Time Clock, 300mil.*	16-Dip	6.33	4.22
DS1307+-ND	Serial Real-Time Clock, 64x8, 300mil.*	8-Dip	4.23	2.82
DS1307N+-ND	Serial Real-Time Clock, 64x8, Ind. Temperature*	8-Dip	4.68	3.12
DS1307Z+-ND	Serial Real-Time Clock, 64x8, 150mil.*	8-SOIC	3.72	2.48
DS1307ZN+-ND	Serial Real-Time Clock, 64x8, Ind. Temperature*	8-SOIC	4.68	3.12
DS1315-5+-ND	5V, Phantom Time Chip, 300mil.*	16-Dip	17.67	11.78
DS1315-33+-ND	3.3V, Phantom Time Chip, 300mil.* ***NEW!***	16-Dip	17.67	11.78
DS1315E-5+-ND	5V, Phantom Time Chip* ***NEW!***	20-TSSOP	20.52	13.68
DS1315E-33+-ND	3.3V, Phantom Time Chip* ***NEW!***	20-TSSOP	20.52	13.68
DS1315N-5+-ND	5V, Phantom Time Chip, 300mil.* ***NEW!***	16-Dip	20.31	13.54
DS1315S-5+-ND	5V, Phantom Time Chip, 300mil.*	16-SOIC	20.52	13.68
DS1315S-33+-ND	3.3V, Phantom Time Chip, 300mil.* ***NEW!***	16-SOIC	20.52	13.68
DS1315SN-5+-ND	5V, Phantom Time Chip, Ind. Temperature*	16-SOIC	23.22	15.48
DS1318E+-ND	Parallel-Interface Elapsed Time Counter* ***NEW!***	24-TSSOP	4.29	2.86
DS1337+-ND	I^{2}C Serial Real-Time Clock*	8-Dip	2.73	1.82
DS1337C#-ND	I^{2}C Serial Real-Time Clock* ***NEW!***	16-SOIC	5.88	3.92
DS1337S+-ND	I^{2}C Serial Real-Time Clock*	8-SOIC	2.73	1.82
DS1337U+-ND	I^{2}C Serial Real-Time Clock*	8-µSOP	2.73	1.82
DS1338C-3#-ND	3V, I^{2}C Real-Time Clock with 56-Byte NV RAM* ***NEW!***	16-SOIC	6.45	4.30
DS1338C-33#-ND	3.3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	16-SOIC	6.45	4.30
DS1338U-3+-ND	3V, I^{2}C Real-Time Clock with 56-Byte NV RAM* ***NEW!***	8-µSOP	3.48	2.32
DS1338Z-3+-ND	3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	8-SOIC	3.48	2.32
DS1338Z-18+-ND	1.8V, I^{2}C Real-Time Clock with 56-Byte NV RAM* ***NEW!***	8-SOIC	3.48	2.32
DS1338Z-33+-ND	3.3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	8-SOIC	3.48	2.32
DS1339C-3#-ND	3V, I^{2}C Real-Time Clock* ***NEW!***	16-SOIC	6.45	4.30
DS1339C-33#-ND	I^{2}C Real-Time Clock*	16-SOIC	6.45	4.30
DS1339U-3+-ND	3V, I^{2}C Real-Time Clock*	8-µSOP	3.48	2.32
DS1339U-33+-ND	3.3V, I^{2}C Serial Real-Time Clock*	8-µSOP	3.48	2.32
DS1340C-33#-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger*	16-SOIC	6.45	4.30
DS1340U-33+-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger*	8-µSOP	3.48	2.32
DS1340Z-3+-ND	3V, I^{2}C Real-Time Clock with Trickle Charger* ***NEW!***	8-SOIC	3.48	2.32
DS1340Z-33+-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger*	8-SOIC	3.48	2.32
DS1371U+-ND	I^{2}C, 32-Bit Binary Counter Watchdog Clock*	8-µSOP	2.73	1.82
DS1372U+-ND	I^{2}C, 32-Bit Binary Counter Clock with 64-Bit ID*	8-µSOP	3.03	2.02
DS1374C-33#-ND	3.3V, I^{2}C 32-Bit Binary Counter Watchdog RTC*	16-SOIC	6.96	4.64
DS1374U-3+-ND	3V, I^{2}C 32-Bit Binary Counter Watchdog RTC* ***NEW!***	10-µSOP	3.87	2.58
DS1374U-18+-ND	1.8V, I^{2}C 32-Bit Binary Counter Watchdog RTC* ***NEW!***	10-µSOP	3.87	2.58
DS1374U-33+-ND	3.3V, I^{2}C 32-Bit Binary Counter Watchdog RTC*	10-µSOP	3.87	2.58
DS1375T+-ND	2-Wire Digital Input RTC with Alarm*	6-TDFN	1.50	1.00
DS1388Z-3+-ND	I^{2}C RTC/Supervisor with Trickle Charger* ***NEW!***	8-SOIC	5.16	3.44
DS1388Z-5+-ND	I^{2}C RTC/Supervisor with Trickle Charger* ***NEW!***	8-SOIC	5.16	3.44
DS1388Z-33+-ND	I^{2}C RTC/Supervisor with Trickle Charger*	8-SOIC	5.16	3.44
DS1390U-3+-ND	3.0V SPI/3-Wire RTC with Trickle Charger*	10-µSOP	3.87	2.58
DS1390U-33+-ND	3.3V, Low Voltage SPI RTC with Trickle Charger*	10-µSOP	3.87	2.58
DS1391U-3+-ND	3V, Low Volt. SPI/3-Wire RTC w/Trickle Charger* ***NEW!***	10-µSOP	3.87	2.58
DS1391U-18+-ND	1.8V, Low Volt. SPI/3-Wire RTC w/Trickle Charger* ***NEW!***	10-µSOP	3.87	2.58
DS1391U-33+-ND	3.3V, Low Voltage SPI/3-Wire RTC with Trickle Charger*	10-µSOP	3.87	2.58
DS1392U-33+-ND	3.3V, Low Voltage SPI/3-Wire RTC with Trickle Charger*	10-µSOP	3.87	2.58
DS1393U-33+-ND	3.3V, Low Volt. SPI/3-Wire RTC w/Trickle Charger* ***NEW!***	10-µSOP	3.87	2.58
DS1500WEN+-ND	3.3V, Y2KC Watchdog Real-Time Clock* ***NEW!***	32-TSOP	16.86	11.24
DS1500YEN+-ND	5V, Y2KC Watchdog Real-Time Clock* ***NEW!***	32-TSOP	16.86	11.24
DS1501WE+-ND	3.3V, Y2KC Watchdog Real-Time Clock*	28-TSOP	13.68	9.12
DS1501WEN+-ND	3.3V, Y2KC Watchdog Real-Time Clock, Ind. Temp.*	28-TSOP	15.72	10.48
DS1501YEN+-ND	5V, Y2KC Watchdog Real-Time Clock* ***NEW!***	28-TSOP	15.72	10.48
DS1511W+-ND	3.3V, Y2KC Watchdog Real-Time Clock*	28-EDip	23.61	15.74
DS1511Y+-ND	5V, Y2KC Watchdog Real-Time Clock* ***NEW!***	28-EDip	23.61	15.74
DS1553P-100+-ND	5V, 64K-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	34-PCM▲	29.16	19.44
DS1553WP-120+-ND	3.3V, 64K-Byte Y2KC Nonvolatile Timekeeping RAM*	34-PCM	21.88	17.19
DS1554-70+-ND	5V, 256K-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	32-EMOD	22.95	18.03
DS1554P-70+-ND	5V, 256K-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	34-PCM▲	20.40	16.03
DS1554WP-120+-ND	3.3V, 256K-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	34-PCM▲	20.40	16.03
DS1556-70+-ND	5V, 1M-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	32-EMOD	31.30	24.59
DS1556P-70+-ND	5V, 1M-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	34-PCM▲	27.82	21.86
DS1556W-120+-ND	3.3V, 1M-Byte Y2KC Nonvolatile Timekeeping RAM* ***NEW!***	32-EMOD	31.30	24.59
DS1558W+-ND	3.3V Watchdog Clock with NV Ram Control* ***NEW!***	48-TQFP	12.18	8.12
DS1558Y+-ND	5V Watchdog Clock with NV Ram Control* ***NEW!***	48-TQFP	12.18	8.12
DS1647P-120+-ND	Nonvolatile Timekeeping RAM* ***NEW!***	34-PCM▲	30.91	24.29
DS1670E+-ND	3.3V Portable System Controller, 4.4mm*	20-TSSOP	10.68	7.12
DS1670S+-ND	3.3V Portable System Controller* ***NEW!***	20-SOIC	10.95	7.30
DS1672U-3+-ND	3V, I^{2}C, 32-Bit Binary Counter RTC* ***NEW!***	8-µSOP	3.48	2.32
DS1673E-3+-ND	3V Portable System Controller* ***NEW!***	20-TSSOP	10.68	7.12
DS1673E-5+-ND	5V Portable System Controller* ***NEW!***	20-TSSOP	10.68	7.12
DS1673S-3+-ND	3V Portable System Controller* ***NEW!***	20-SOIC	10.95	7.30
DS1673S-5+-ND	5V Portable System Controller* ***NEW!***	20-SOIC	10.95	7.30
DS1678S+-ND	Real-Time Event Recorder* ***NEW!***	8-SOIC	8.19	5.46
DS1682S+-ND	Total-Elapsed-Time Recorder with Alarm*	8-SOIC	5.61	3.74
DS1685-3+-ND	3V Real-Time Clock* ***NEW!***	24-PDip	6.87	4.58
DS1685-5+-ND	5V Real-Time Clock* ***NEW!***	24-PDip	6.87	4.58
DS1685-5IND+-ND	5V Real-Time Clock, Industrial Temperature* ***NEW!***	24-PDip	7.89	5.26
DS1685E-3+-ND	3V Real-Time Clock*	24-TSSOP	7.29	4.86
DS1685E-5+-ND	5V Real-Time Clock* ***NEW!***	24-TSSOP	7.29	4.86
DS1685EN-3+-ND	3V Real-Time Clock, Industrial Temperature* ***NEW!***	24-TSSOP	8.40	5.60
DS1685EN-5+-ND	5V Real-Time Clock, Industrial Temperature* ***NEW!***	24-TSSOP	8.40	5.60
DS1685Q-5+-ND	5V Real-Time Clock* ***NEW!***	28-PLCC	7.74	5.16
DS1685QN-5+-ND	5V Real-Time Clock, Industrial Temperature* ***NEW!***	28-PLCC	8.94	5.96
DS1685S-3+-ND	3V Real-Time Clock* ***NEW!***	24-SOIC	7.26	4.84
DS1685S-5+-ND	5V Real-Time Clock*	24-SOIC	7.26	4.84
DS1685SN-5+-ND	5V Real-Time Clock, Industrial Temperature* ***NEW!***	24-SOIC	8.37	5.58
DS1687-3+-ND	3V Real-Time Clock*	24-EDip	10.62	7.08
DS1687-3IND+-ND	3V Real-Time Clock, Industrial Temperature*	24-EDip	10.86	7.24
DS1687-5+-ND	5V Real-Time Clock*	24-EDip	10.62	7.08
DS1687-5IND+-ND	5V Real-Time Clock, Industrial Temperature*	24-EDip	10.86	7.24
DS1742-85+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 85nS* ***NEW!***	24-EDip	27.48	18.32
DS1742-100+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS* ***NEW!***	24-EDip	27.48	18.32
DS1742W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	24-EDip	28.92	19.28

** RoHS Compliant*

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(Continued)

MAXIM INNOVATION DELIVERED™ Digi-Reel® *(Cont.)* REAL-TIME CLOCK

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1742W-150+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 150nS* ***NEW!***	24-EDip	27.48	18.32
DS1743-85+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 85nS* ***NEW!***	28-EDip	28.77	19.18
DS1743P-100+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS* ***NEW!***	34-PCM▲	25.59	17.06
DS1743W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	28-EDip	18.36	14.43
DS1743W-120IND+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	28-EDip	21.11	16.59
DS1743WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	26.94	17.96
DS1743WP-120IND+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	34-PCM▲	18.77	14.75
DS1744-70+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS*	28-EDip	20.06	15.76
DS1744-70IND+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS*	28-EDip	23.07	18.12
DS1744W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	28-EDip	20.06	15.76
DS1744WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	29.43	19.62
DS1746-70+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS* ***NEW!***	32-EDip	28.32	22.25
DS1746W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	32-EDip	28.32	22.25
DS1746WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	25.17	19.78
DS1747P-70IND+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS* ***NEW!***	34-PCM▲	35.55	27.93
DS1747WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	30.91	24.29
DS3231S#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	16-SOIC	8.40	5.60
DS3231SN#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	16-SOIC	9.66	6.44
DS3232S#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	20-SOIC	4.18	3.74
DS3232SN#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	20-SOIC	9.93	6.62
DS3234S#-ND	Extremely Accurate SPI Bus Real-Time Clock*	20-SOIC	8.64	5.76
DS3234SN#-ND	Extremely Accurate SPI Bus Real-Time Clock*	20-SOIC	9.93	6.62
DS4026S+ACN-ND	10MHz TCXO* ***NEW!***	16-SOIC	54.27	42.64
DS4026S+BCN-ND	12.8MHz TCXO* ***NEW!***	16-SOIC	54.27	42.64
DS4026S+FCN-ND	16.384MHz TCXO* ***NEW!***	16-SOIC	54.27	42.64
DS4026S+HCN-ND	19.44MHz TCXO* ***NEW!***	16-SOIC	54.27	42.64
DS4026S+JCN-ND	20MHz TCXO* ***NEW!***	16-SOIC	55.62	43.70
DS4026S+MCN-ND	38.88MHz TCXO* ***NEW!***	16-SOIC	55.62	43.70
DS4026S+PCN-ND	40MHz TCXO* ***NEW!***	16-SOIC	59.89	47.06
DS4026S+QCN-ND	51.84MHz TCXO* ***NEW!***	16-SOIC	59.89	47.06
DS4026S3+ACN-ND	10MHz Stratum 3 TCXO* ***NEW!***	16-SOIC	72.73	57.14
DS4026S3+JCN-ND	20MHz Stratum 3 TCXO* ***NEW!***	16-SOIC	72.73	57.14
DS4100H+-ND	100MHz HCSL Clock Oscillator* ***NEW!***	10-LCCC	21.75	14.50
DS4106AN+-ND	106.25MHz Clock Oscillator* ***NEW!***	10-LCCC	21.75	14.50
DS4106BN+-ND	106.25MHz Clock Oscillator* ***NEW!***	10-LCCC	13.19	10.36
DS4125D+-ND	125MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	21.75	14.50
DS4125P+-ND	125MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	21.75	14.50
DS4150D+-ND	150MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.41	14.94
DS4150P+-ND	150MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	22.41	14.94
DS4155D+-ND	155.52MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.41	14.94
DS4155P+-ND	155.52MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	22.41	14.94
DS4156D+-ND	156.25MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.41	14.94
DS4156P+-ND	156.25MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	22.41	14.94
DS4160D+-ND	160MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	22.41	14.94
DS4160P+-ND	160MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	22.41	14.94
DS4212AN+-ND	212.5MHz Clock Oscillator, LVPECL Output* ***NEW!***	10-LCCC	26.88	17.92
DS4212BN+-ND	212.5MHz Clock Oscillator, LVDS Output* ***NEW!***	10-LCCC	26.88	17.92
DS4250D+-ND	250MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	26.88	17.92
DS4266D+-ND	266MHz DDR Clock Oscillator, LVDS Output* ***NEW!***	10-LCCC	16.29	12.80
DS4300D+-ND	300MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	26.88	17.92
DS4300P+-ND	300MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	26.88	17.92
DS4311D+-ND	311.04MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	26.88	17.92
DS4311P+-ND	311.04MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	26.88	17.92
DS4312D+-ND	312.5MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	26.88	17.92
DS4425AN+-ND	425MHz Clock Oscillator, LVPECL Output* ***NEW!***	10-LCCC	27.99	18.66
DS4622D+-ND	622.08MHz Crystal Oscillator, LVDS Output* ***NEW!***	10-LCCC	20.36	16.00
DS4622P+-ND	622.08MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	20.36	16.00
DS4625P+100/150-ND	100MHz/150MHz LVPECL Cock Oscillator* ***NEW!***	10-LCCC	15.52	12.19
DS4776P+-ND	77.76MHz Crystal Oscillator, LVPECL Output* ***NEW!***	10-LCCC	24.00	16.00
DS12885+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-PDip	8.76	5.84
DS12885N+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-PDip	4.89	3.26
DS12885Q+-ND	Real-Time Clock with RAM, 128-Byte*	28-PLCC	9.09	6.06
DS12885QN+-ND	Real-Time Clock with RAM, 128-Byte*	28-PLCC	10.44	6.96
DS12885S+-ND	Real-Time Clock with RAM, 128-Byte*	24-SOIC	8.76	5.84
DS12885SN+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-SOIC	10.11	6.74
DS12885T+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	32-TQFP	10.32	6.88
DS12887+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	10.14	6.76
DS12887A+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	10.14	6.76
DS14285Q-ND	Real-Time Clock with NV RAM Control	28-PLCC	8.03	6.06
DS17285S-5+-ND	5V Real-Time Clock* ***NEW!***	24-SOIC	10.20	6.80
DS17285SN-3+-ND	3V Real-Time Clock, Ind. Temperature* ***NEW!***	24-SOIC	11.22	7.48
DS17285SN-5+-ND	5V Real-Time Clock, Ind. Temperature* ***NEW!***	24-SOIC	11.22	7.48
DS17287-5+-ND	5V Real-Time Clock with Battery and Crystal*	24-EDip	16.74	11.16
DS17485E-3+-ND	3V Real-Time Clock* ***NEW!***	28-TSOP	15.03	10.02
DS17485S-3+-ND	3V RTC with 4K-Bytes of Battery-Backed NV RAM*	24-SOIC	14.07	9.38
DS17487-5+-ND	5V Real-Time Clock*	24-EDip	19.98	13.32
DS17885S-3+-ND	3V Real-Time Clock* ***NEW!***	24-SOIC	19.98	13.32
DS17887-3+-ND	3V Real-Time Clock* ***NEW!***	24-EDip	25.29	16.86
DS17887-5+-ND	5V Real-Time Clock*	24-EDip	25.29	16.86

▲ DS9034PCX PowerCap required; order DS9034PCX+-ND

MAXIM INNOVATION DELIVERED™ THERMAL MANAGEMENT *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1731U+-ND	High-Precision Digital Thermometer/Thermostat	8-MSOP	4.38	2.92
DS18B20+-ND	Programmable Resolution 1-Wire® Digital Thermometer	TO-92	5.70	3.80
DS18B20+PAR-ND	Prog. Resolution 1-Wire® Digital Thermometer	TO-92	5.70	3.80
DS18B20U+-ND	Programmable Resolution 1-Wire® Digital Thermometer	8-µSOP	5.70	3.80
DS18B20Z+-ND	Programmable Resolution 1-Wire® Digital Thermometer	8-SOIC	5.70	3.80
DS18S20+-ND	High Precision 1-Wire® Digital Thermometer	TO-92	5.70	3.80
DS18S20+CT-ND	High Precision 1-Wire® Digital Thermometer	TO-92	5.04	3.80
DS18S20+TR-ND	High Precision 1-Wire® Digital Thermometer	TO-92	4750.00/2,000	
DS18S20Z+-ND	High Precision 1-Wire® Digital Thermometer	8-SOIC	5.70	3.80
DS28EA00U+-ND	1-Wire Digital Thermometer with Sequence Detect ***NEW!***	8-µSOP	7.02	4.68
DS75LVS+-ND	1.7V to 3.7V Digital Thermometer/Thermostat	8-SOIC	2.28	1.52
DS75LVU+-ND	1.7V to 3.7V Digital Thermometer/Thermostat	8-MSOP	2.28	1.52
DS75LXS+-ND	1.7V to 3.7V Digital Thermometer/Thermostat	8-SOIC	2.10	1.40
DS75LXU+-ND	1.7V to 3.7V Digital Thermometer/Thermostat	8-µMAX	2.10	1.40
DS75S+-ND	Digital Thermometer/Thermostat, LM75-Compatible	8-SOIC	2.28	1.52
DS75U+-ND	Digital Thermometer/Thermostat, LM75-Compatible	8-MSOP	2.28	1.52
DS600U+-ND	±5°C Accurate Analog-Output Temperature Sensor	8-µSOP	5.70	3.80
DS620U+-ND	Low Volt. ±0.5°C Digital Thermometer/Thermostat	8-MSOP	5.70	3.80
DS1620+-ND	Digital Thermometer/Thermostat, 300mil.	8-Dip	7.89	5.26
DS1620S+-ND	Digital Thermometer/Thermostat, 208mil.	8-SOIC	7.89	5.26
DS1621+-ND	Digital Thermometer/Thermostat, 300mil.	8-Dip	5.22	3.48

MAXIM INNOVATION DELIVERED™ *(Cont.)* THERMAL MANAGEMENT *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1621S+-ND	Digital Thermometer/Thermostat, 150mil.	8-SOIC	5.22	3.48
DS1624+-ND	Digital Thermometer and Memory, 300mil.	8-Dip	10.23	6.82
DS1624S+-ND	Digital Thermometer and Memory, 208mil.	8-SOIC	10.23	6.82
DS1626U+-ND	High Prec. 3-Wire Digital Thermometer/Thermostat	8-µSOP	4.53	3.02
DS1629S+-ND	2-Wire Digital Thermometer and Real-Time Clock, 150mil.	8-SOIC	8.79	5.86
DS1631AU+-ND	High Precision Digital Thermometer/Thermostat	8-µSOP	4.53	3.02
DS1631S+-ND	High Precision Digital Thermometer/Thermostat ***NEW!***	8-SOIC	4.53	3.02
DS1631U+-ND	High Precision Digital Thermometer/Thermostat	8-MSOP	4.53	3.02
DS1631Z+-ND	High Precision Digital Thermometer/Thermostat	8-SOIC	4.53	3.02
DS1721S+CT-ND	2-Wire Digital Thermometer/Thermostat	8-SOIC	3.87	2.92
DS1721S+TR-ND	2-Wire Digital Thermometer/Thermostat	8-SOIC	4562.50/2,500	
DS1721U+-ND	2-Wire Digital Thermometer/Thermostat	8-MSOP	4.38	2.92
DS1722S+-ND	3-Wire Digital Thermometer/Thermostat	8-SOIC	2.94	1.96
DS1722S+CT-ND	3-Wire Digital Thermometer/Thermostat	8-SOIC	2.60	1.96
DS1722S+TR-ND	3-Wire Digital Thermometer/Thermostat	8-SOIC	3062.50/2,500	
DS1722U+-ND	3-Wire Digital Thermometer/Thermostat	8-MSOP	3.00	2.00
DS1821+-ND	Programmable Digital Thermostat/Thermometer	3-PR35	7.14	4.76
DS1821S+-ND	Programmable Digital Thermostat/Thermometer	8-SOIC	7.14	4.76
DS1822+-ND	Econo 1-Wire® Digital Thermometer	TO-92	4.38	2.92
DS1822Z+-ND	Econo 1-Wire® Digital Thermometer	8-SOIC	4.38	2.92
DS1825U+-ND	Prog. Resolution 1-Wire® Digital Thermometer	8-µSOP	4.77	3.18
DS1856B-050+-ND	Dual, Temp. Controlled Nonvolatile Resistor	16-CSBGA	7.02	4.68
DS1859E-050+-ND	Dual, Temp. Controlled Nonvolatile Resistor	16-TSSOP	6.66	4.44

MAXIM INNOVATION DELIVERED™ TIMEKEEPING *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS32KHZS#-ND	32.768kHz Temp. Compensated Crystal Oscillator	16-SOIC	8.40	5.60
DS32KHZSN#-ND	32.768kHz Temp. Compensated Crystal Oscillator	16-SOIC	9.66	6.44
DS1004Z-2+-ND	5-Tap High Speed Silicon Delay Line, 2nS Tap-to-Tap	8-SOIC	17.25	11.50
DS1004Z-3+-ND	5-Tap High Speed Silicon Delay Line, 3nS Tap-to-Tap	8-SOIC	19.74	13.16
DS1004Z-4+-ND	5-Tap High Speed Silicon Delay Line, 4nS Tap-to-Tap	8-SOIC	19.74	13.16
DS1021S-25+-ND	Programmable 8-Bit Silicon Delay Line, .25nS	16-SOIC	22.80	15.20
DS1021S-50+-ND	Programmable 8-Bit Silicon Delay Line, .50nS	16-SOIC	22.80	15.20
DS1023S-25+-ND	8-Bit Programmable Timing Element, .25nS	16-SOIC	19.05	12.70
DS1023S-50+-ND	8-Bit Programmable Timing Element, .5nS	16-SOIC	19.05	12.70
DS1023S-500+-ND	8-Bit Programmable Timing Element, 5nS	16-SOIC	21.00	14.00
DS1050Z-010+-ND	5-Bit Programmable Pulse-Width Modulator ***NEW!***	8-SOIC	2.97	1.98
DS1077LZ-40+-ND	3V EconOscillator/Divider ***NEW!***	8-SOIC	3.30	2.20
DS1080LU+-ND	Spread-Spectrum Crystal Multiplier	8-µSOP	2.94	1.96
DS1085LZ-25+-ND	3.3V EconOscillator Frequency Synthesizer	8-SOIC	4.15	3.60
DS1086LU+-ND	3.3V Spread-Spectrum EconOscillator	8-µSOP	2.37	1.58
DS1086LU-533+-ND	3.3V Spread-Spectrum EconOscillator ***NEW!***	8-µSOP	2.37	1.58
DS1086U-266+-ND	5V Spread-Spectrum EconOscillator ***NEW!***	8-µSOP	1.58	1.21
DS1086Z+-ND	3.3V Spread-Spectrum EconOscillator	8-SOIC	2.37	1.58
DS1087LU-26A+-ND	3.3V Spread-Spectrum EconOscillator ***NEW!***	8-µSOP	2.25	1.50
DS1087LU-450+-ND	3.3V Spread-Spectrum EconOscillator ***NEW!***	8-µSOP	2.25	1.50
DS1089LU-450+-ND	3.3V Spread-Spectrum EconOscillator ***NEW!***	8-µSOP	1.50	1.25
DS1091LU-66+-ND	Auto Temp. Range Spread-Spectrum EconOscillator	8-µMAX	1.89	1.26
DS1099U-BC+-ND	Low Frequency Dual EconOscillator ***NEW!***	8-µSOP	1.20	.80
DS1099U-CC+-ND	Low Frequency Dual EconOscillator ***NEW!***	8-µSOP	1.20	.80
DS1100LU-20+-ND	5-Tap Delay Line, 20nS	8-µSOP	8.34	5.56
DS1100LU-25+-ND	5-Tap Delay Line, 25nS ***NEW!***	8-µSOP	8.34	5.56
DS1100LU-30+-ND	5-Tap Delay Line, 30nS ***NEW!***	8-µSOP	8.34	5.56
DS1100LZ-20+-ND	5-Tap Delay Line, 20nS	8-SOIC	7.89	5.26
DS1100LZ-25+-ND	5-Tap Delay Line, 25nS	8-SOIC	7.89	5.26
DS1100LZ-50+-ND	5-Tap Delay Line, 50nS ***NEW!***	8-SOIC	7.89	5.26
DS1100LZ-100+-ND	5-Tap Delay Line, 100nS	8-SOIC	7.89	5.26
DS1100LZ-300+-ND	5-Tap Delay Line, 300nS ***NEW!***	8-SOIC	7.89	5.26
DS1100U-30+-ND	5-Tap Delay Line, 30nS ***NEW!***	8-µSOP	7.56	5.04
DS1100U-300+-ND	5-Tap Delay Line, 300nS ***NEW!***	8-µSOP	7.56	5.04
DS1100Z-20+-ND	5-Tap Delay Line, 20nS	8-SOIC	7.17	4.78
DS1100Z-25+-ND	5-Tap Delay Line, 25nS	8-SOIC	7.17	4.78
DS1100Z-30+-ND	5-Tap Delay Line, 30nS ***NEW!***	8-SOIC	7.17	4.78
DS1100Z-35+-ND	5-Tap Delay Line, 35nS ***NEW!***	8-SOIC	7.17	4.78
DS1100Z-50+-ND	5-Tap Delay Line, 50nS	8-SOIC	7.17	4.78
DS1100Z-60+-ND	5-Tap Delay Line, 60nS ***NEW!***	8-SOIC	7.17	4.78
DS1100Z-100+-ND	5-Tap Delay Line, 100nS	8-SOIC	7.17	4.78
DS1100Z-125+-ND	5-Tap Delay Line, 125nS ***NEW!***	8-SOIC	7.17	4.78
DS1100Z-200+-ND	5-Tap Delay Line, 200nS	8-SOIC	7.17	4.78
DS1100Z-250+-ND	5-Tap Delay Line, 250nS	8-SOIC	7.17	4.78
DS1100Z-500+-ND	5-Tap Delay Line, 500nS ***NEW!***	8-SOIC	7.17	4.78
DS1110E-75+-ND	10-Tap Silicon Delay Line, 75nS ***NEW!***	14-TSSOP	10.80	7.20
DS1110E-150+-ND	10-Tap Silicon Delay Line, 150nS ***NEW!***	14-TSSOP	10.80	7.20
DS1110S-60+-ND	10-Tap Silicon Delay Line, 60nS ***NEW!***	16-SOIC	11.52	7.68
DS1124U-25+-ND	5V, 8-Bit Programmable Timing Element	10-µSOP	5.43	3.62
DS1135LU-15+-ND	3V, High Speed Silicon Delay Line, 15nS ***NEW!***	8-µSOP	14.28	9.52
DS1135LZ-25+-ND	3V, High Speed Silicon Delay Line, 25nS ***NEW!***	8-SOIC	12.84	8.56
DS1135U-30+-ND	5V, High Speed Silicon Delay Line, 30nS ***NEW!***	8-µSOP	8.61	5.74
DS1135Z-8+-ND	5V, High Speed Silicon Delay Line, 8nS ***NEW!***	8-SOIC	8.61	5.74
DS1135Z-10+-ND	5V, High Speed Silicon Delay Line, 10nS ***NEW!***	8-SOIC	8.61	5.74
DS1135Z-15+-ND	5V, High Speed Silicon Delay Line, 15nS ***NEW!***	8-SOIC	8.61	5.74
DS1135Z-25+-ND	5V, High Speed Silicon Delay Line, 25nS ***NEW!***	8-SOIC	8.61	5.74
DS1672-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter	8-Dip	3.48	2.32
DS1672S-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter	8-SOIC	3.48	2.32
DS1672U-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter	8-µSOP	3.48	2.32

MAXIM INNOVATION DELIVERED™ Digi-Reel® VOLTAGE MONITOR

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1231-20+-ND	Power Monitor Chip, 20nS*	8-Dip	9.39	6.26
DS1231-35+-ND	Power Monitor Chip, 35nS*	8-Dip	9.39	6.26
DS1231S-20+-ND	Power Monitor Chip, 20nS*	16-SOIC	11.40	7.60
DS1232+-ND	MicroMonitor Chip*	8-Dip	2.37	1.58
DS1232LP+-ND	Low Power MicroMonitor Chip*	8-Dip	2.55	1.70
DS1232LPS-2+-ND	Low Power MicroMonitor Chip*	8-SOIC	2.55	1.70
DS1232LPSN-2+-ND	Low Power MicroMonitor Chip, Industrial Temperature*	8-SOIC	2.94	1.96
DS1232N+-ND	MicroMonitor Chip, Industrial Temperature*	8-Dip	2.94	1.96
DS1232S+-ND	MicroMonitor Chip*	16-SOIC	3.12	2.08
DS1232SN+-ND	MicroMonitor Chip, Industrial Temperature*	16-SOIC	3.60	2.40

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(Continued)

MAXIM INNOVATION DELIVERED™ **DigiReel®** *(Cont.)*

VOLTAGE MONITOR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1233-15+-ND	5V EconoReset*	TO-92	1.41	.94
DS1233MS-55+-ND	5V EconoReset*	8-SOIC	3.27	2.18
DS1705ESA+-ND	5V, MicroMonitor, 10%*	8-SOIC	2.55	1.70
DS1706ESA+-ND	5V, MicroMonitor, 10%*	8-SOIC	2.55	1.70
DS1706LESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.55	1.70
DS1706REPA+-ND	3.3V, MicroMonitor, 20%* ***NEW!***	8-PDip	2.55	1.70
DS1706SESA+-ND	3.3V, MicroMonitor, 10%*	8-SOIC	2.55	1.70
DS1706TESA+-ND	3.3V, MicroMonitor, 5%*	8-SOIC	2.55	1.70
DS1707ESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.31	1.54
DS1708ESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.55	1.70
DS1708SESA+-ND	3.3V, MicroMonitor, 10%*	8-SOIC	2.55	1.70
DS1708TESA+-ND	3.3V, MicroMonitor, 5%*	8-SOIC	2.55	1.70
DS1780E+-ND	CPU Peripheral Monitor*	24-TSSOP	5.70	3.80
DS1810-10+-ND	5V, EconoReset with Push-Pull Output, 10%*	TO-92	1.26	.84
DS1814CR-10+CT-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	1.38	1.04
DS1814CR-10+TR-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	2160.01/3,000	
DS1831S+-ND	Multi-Supply Micromonitor*	16-SOIC	7.65	5.10
DS1832S+-ND	3.3V, MicroMonitor Chip*	8-SOIC	2.10	1.40
DS1836A-5+-ND	5V MicroManager* ***NEW!***	8-Dip	6.12	4.08
DS1836BS-5+-ND	5V MicroManager* ***NEW!***	8-SOIC	6.12	4.08
DS2436Z+-ND	Battery Identification/Monitor Chip*	8-SOIC	4.11	3.10
DS2438AZ+-ND	Smart Battery Monitor*	8-SOIC	5.97	3.98
DS2438Z+-ND	Smart Battery Monitor*	8-SOIC	5.97	3.98
DS2710G+-ND	Single-Cell NiMH Charger* ***NEW!***	10-TDFN	4.23	2.82
DS2711E+-ND	Loose Cell NiMH Charger*	16-TSSOP	4.98	3.32
DS2711Z+-ND	Loose Cell NiMH Charger*	16-SOIC	4.98	3.32
DS2712E+-ND	Loose Cell NiMH Charger*	16-TSSOP	4.98	3.32
DS2712Z+-ND	Loose Cell NiMH Charger*	16-SOIC	4.98	3.32
DS2715Z+-ND	NiMH Battery Pack Charge Controller*	16-SOIC	5.01	3.34
DS2731E+-ND	Cache-Memory Battery Backup Management IC* ***NEW!***	28-TSSOP	13.41	8.94
DS2740BU+-ND	High Precision Coulomb Counter*	8-µMAX	3.39	2.26
DS2740U+-ND	High Precision Coulomb Counter*	8-µMAX	3.75	2.50
DS2745U+-ND	I^{2}C Battery Monitor*	8-µMAX	4.14	2.76
DS2746G+-ND	2-Wire Battery Monitor with Ratiometric A/D Input*	10-TDFN	4.32	2.88
DS2756E+-ND	Battery Fuel Gauge with Programmable Suspend Mode*	8-TSSOP	5.31	3.54
DS2762AE+025-ND	High-Precision Li-Ion Battery Monitor with Alerts* ***NEW!***	16-TSSOP	7.80	5.20
DS2762BE+-ND	High-Precision Li-Ion Battery Monitor with Alerts* ***NEW!***	16-TSSOP	7.41	4.94
DS2762BE+025-ND	High-Precision Li-Ion Battery Monitor with Alerts* ***NEW!***	16-TSSOP	7.80	5.20
DS2775G+-ND	2-Cell Stand-Alone Li-Ion Fuel Gauge* ***NEW!***	14-TDFN	7.62	5.08
DS2776G+-ND	2-Cell Stand-Alone Li-Ion Fuel Gauge* ***NEW!***	14-TDFN	8.19	5.46
DS2777G+-ND	2-Cell Stand-Alone Li-Ion Fuel Gauge* ***NEW!***	14-TDFN	8.88	5.92
DS2778G+-ND	2-Cell Stand-Alone Li-Ion Fuel Gauge* ***NEW!***	14-TDFN	8.19	5.46
DS2780E+-ND	Stand-Alone Fuel Gauge*	8-TSSOP	7.53	5.02
DS2780G+-ND	Stand-Alone Fuel Gauge*	10-TDFN	7.53	5.02
DS2781E+-ND	1-Cell or 2-Cell Stand-Alone Fuel Gauge*	8-TSSOP	8.10	5.40
DS2781G+-ND	1-Cell or 2-Cell Stand-Alone Fuel Gauge*	10-TDFN	8.10	5.40
DS2782E+-ND	Stand-Alone Fuel Gauge*	8-TSSOP	6.24	4.16
DS2782G+-ND	Stand-Alone Fuel Gauge* ***NEW!***	10-TDFN	6.24	4.16
DS2784G+-ND	Stand-Alone Fuel Gauge with Li-Ion Protection* ***NEW!***	14-TDFN	8.22	5.48
DS2786BG+-ND	Stand-Alone OCV-Based Fuel Gauge* ***NEW!***	10-TDFN	3.96	2.64
DS2786G+-ND	Stand-Alone OCV-Based Fuel Gauge*	10-TDFN	3.96	2.64
DS2788E+-ND	Stand-Alone Fuel Gauge with LED Display Drivers* ***NEW!***	14-TSSOP	7.59	5.06
DS3994Z+-ND	4-Channel Cold-Cathode Fluorescent Lamp Controller*	28-SOIC	2.39	1.80

TOREX **DigiReel®**

NEW! POWER MANAGEMENT

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Torex Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
		Supervisors				
XC6108C15AMR-G	893-1000-1-ND	1.5V Supervisor, CMOS Output	SOT25-5	.60	.53	.45
XC6108C15AMR-G	893-1000-2-ND	1.5V Supervisor, CMOS Output	SOT25-5	630.00/3,000		
XC6108C18AMR-G	893-1001-1-ND	1.8V Supervisor, CMOS Output	SOT25-5	.60	.53	.45
XC6108C18AMR-G	893-1001-2-ND	1.8V Supervisor, CMOS Output	SOT25-5	630.00/3,000		
XC6108C25AMR-G	893-1002-1-ND	2.5V Supervisor, CMOS Output	SOT25-5	.60	.53	.45
XC6108C25AMR-G	893-1002-2-ND	2.5V Supervisor, CMOS Output	SOT25-5	630.00/3,000		
XC6108C30AMR-G	893-1003-1-ND	3V Supervisor, CMOS Output	SOT25-5	.60	.53	.45
XC6108C30AMR-G	893-1003-2-ND	3V Supervisor, CMOS Output	SOT25-5	630.00/3,000		
XC6108N15AMR-G	893-1004-1-ND	1.5V Supervisor, N-Channel Output	SOT25-5	.60	.53	.45
XC6108N15AMR-G	893-1004-2-ND	1.5V Supervisor, N-Channel Output	SOT25-5	630.00/3,000		
XC6108N18AMR-G	893-1005-1-ND	1.8V Supervisor, N-Channel Output	SOT25-5	.60	.53	.45
XC6108N18AMR-G	893-1005-2-ND	1.8V Supervisor, N-Channel Output	SOT25-5	630.00/3,000		
XC6108N25AMR-G	893-1006-1-ND	2.5V Supervisor, N-Channel Output	SOT25-5	.60	.53	.45
XC6108N25AMR-G	893-1006-2-ND	2.5V Supervisor, N-Channel Output	SOT25-5	630.00/3,000		
XC6108N30AMR-G	893-1007-1-ND	3V Supervisor, N-Channel Output	SOT25-5	.60	.53	.45
XC6108N30AMR-G	893-1007-2-ND	3V Supervisor, N-Channel Output	SOT25-5	630.00/3,000		
XC6109C15ANR-G	893-1008-1-ND	1.5V Supervisor, CMOS Output	SSOT24-4	.60	.53	.45
XC6109C15ANR-G	893-1008-2-ND	1.5V Supervisor, CMOS Output	SSOT24-4	630.00/3,000		
XC6109C18ANR-G	893-1009-1-ND	1.8V Supervisor, CMOS Output	SSOT24-4	.60	.53	.45
XC6109C18ANR-G	893-1009-2-ND	1.8V Supervisor, CMOS Output	SSOT24-4	630.00/3,000		
XC6109C25ANR-G	893-1010-1-ND	2.5V Supervisor, CMOS Output	SSOT24-4	.60	.53	.45
XC6109C25ANR-G	893-1010-2-ND	2.5V Supervisor, CMOS Output	SSOT24-4	630.00/3,000		
XC6109C30ANR-G	893-1011-1-ND	3V Supervisor, CMOS Output	SSOT24-4	.60	.53	.45
XC6109C30ANR-G	893-1011-2-ND	3V Supervisor, CMOS Output	SSOT24-4	630.00/3,000		
XC6109N15ANR-G	893-1012-1-ND	1.5V Supervisor, N-Channel Output	SSOT24-4	.60	.53	.45
XC6109N15ANR-G	893-1012-2-ND	1.5V Supervisor, N-Channel Output	SSOT24-4	630.00/3,000		
XC6109N18ANR-G	893-1013-1-ND	1.8V Supervisor, N-Channel Output	SSOT24-4	.60	.53	.45
XC6109N18ANR-G	893-1013-2-ND	1.8V Supervisor, N-Channel Output	SSOT24-4	630.00/3,000		
XC6109N25ANR-G	893-1014-1-ND	2.5V Supervisor, N-Channel Output	SSOT24-4	.60	.53	.45
XC6109N25ANR-G	893-1014-2-ND	2.5V Supervisor, N-Channel Output	SSOT24-4	630.00/3,000		
XC6109N30ANR-G	893-1015-1-ND	3V Supervisor, N-Channel Output	SSOT24-4	.60	.53	.45
XC6109N30ANR-G	893-1015-2-ND	3V Supervisor, N-Channel Output	SSOT24-4	630.00/3,000		
XC6120C152NR-G	893-1016-1-ND	1.5V Supervisor, CMOS Output	SSOT24-4	.55	.46	.33
XC6120C152NR-G	893-1016-2-ND	1.5V Supervisor, CMOS Output	SSOT24-4	433.50/3,000		
XC6120C182NR-G	893-1017-1-ND	1.8V Supervisor, CMOS Output	SSOT24-4	.55	.46	.33
XC6120C182NR-G	893-1017-2-ND	1.8V Supervisor, CMOS Output	SSOT24-4	433.50/3,000		
XC6120C252NR-G	893-1018-1-ND	2.5V Supervisor, CMOS Output	SSOT24-4	.55	.46	.33
XC6120C252NR-G	893-1018-2-ND	2.5V Supervisor, CMOS Output	SSOT24-4	433.50/3,000		
XC6120C302NR-G	893-1019-1-ND	3V Supervisor, CMOS Output	SSOT24-4	.55	.46	.33
XC6120C302NR-G	893-1019-2-ND	3V Supervisor, CMOS Output	SSOT24-4	433.50/3,000		
XC6120N152NR-G	893-1020-1-ND	1.5V Supervisor, N-Channel Output	SSOT24-4	.55	.46	.33
XC6120N152NR-G	893-1020-2-ND	1.5V Supervisor, N-Channel Output	SSOT24-4	433.50/3,000		
XC6120N182NR-G	893-1021-1-ND	1.8V Supervisor, N-Channel Output	SSOT24-4	.55	.46	.33
XC6120N182NR-G	893-1021-2-ND	1.8V Supervisor, N-Channel Output	SSOT24-4	433.50/3,000		
XC6120N252NR-G	893-1022-1-ND	2.5V Supervisor, N-Channel Output	SSOT24-4	.55	.46	.33

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NEW! POWER MANAGEMENT

RoHS Compliant

Torex Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
XC6120N252NR-G	893-1022-2-ND	2.5V Supervisor, N-Channel Output	SSOT24-4	433.50/3,000		
XC6120N302NR-G	893-1023-1-ND	3V Supervisor, N-Channel Output	SSOT24-4	.55	.46	.33
XC6120N302NR-G	893-1023-2-ND	3V Supervisor, N-Channel Output	SSOT24-4	433.50/3,000		
XC61CC1502MR-G	893-1024-1-ND	1.5V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC1502MR-G	893-1024-2-ND	1.5V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CC1802MR-G	893-1025-1-ND	1.8V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC1802MR-G	893-1025-2-ND	1.8V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CC2002MR-G	893-1026-1-ND	2V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC2002MR-G	893-1026-2-ND	2V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CC2502MR-G	893-1027-1-ND	2.5V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC2502MR-G	893-1027-2-ND	2.5V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CC2802MR-G	893-1028-1-ND	2.8V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC2802MR-G	893-1028-2-ND	2.8V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CC3002MR-G	893-1029-1-ND	3V Supervisor, CMOS Output	SOT23-3	.63	.53	.42
XC61CC3002MR-G	893-1029-2-ND	3V Supervisor, CMOS Output	SOT23-3	562.50/3,000		
XC61CN1502MR-G	893-1030-1-ND	1.5V Supervisor, N-Channel Output	SOT23-3	.63	.53	.42
XC61CN1502MR-G	893-1030-2-ND	1.5V Supervisor, N-Channel Output	SOT23-3	562.50/3,000		
XC61CN1802MR-G	893-1031-1-ND	1.8V Supervisor, N-Channel Output	SOT23-3	.63	.53	.42
XC61CN1802MR-G	893-1031-2-ND	1.8V Supervisor, N-Channel Output	SOT23-3	562.50/3,000		
XC61CN2202MR-G	893-1032-1-ND	2.2V Supervisor, N-Channel Output	SOT23-3	.63	.53	.42
XC61CN2202MR-G	893-1032-2-ND	2.2V Supervisor, N-Channel Output	SOT23-3	562.50/3,000		
XC61CN2502MR-G	893-1033-1-ND	2.5V Supervisor, N-Channel Output	SOT23-3	.63	.53	.42
XC61CN2502MR-G	893-1033-2-ND	2.5V Supervisor, N-Channel Output	SOT23-3	562.50/3,000		
XC61CN3002MR-G	893-1034-1-ND	3V Supervisor, N-Channel Output	SOT23-3	.63	.53	.42
XC61CN3002MR-G	893-1034-2-ND	3V Supervisor, N-Channel Output	SOT23-3	562.50/3,000		
XC61HC1612MR-G	893-1035-1-ND	1.6V Supervisor, CMOS Output	SOT23-3	.73	.61	.48
XC61HC1612MR-G	893-1035-2-ND	1.6V Supervisor, CMOS Output	SOT23-3	652.50/3,000		
XC61HC1812MR-G	893-1036-1-ND	1.8V Supervisor, CMOS Output	SOT23-3	.73	.61	.48
XC61HC1812MR-G	893-1036-2-ND	1.8V Supervisor, CMOS Output	SOT23-3	652.50/3,000		
XC61HC2512MR-G	893-1037-1-ND	2.5V Supervisor, CMOS Output	SOT23-3	.73	.61	.48
XC61HC2512MR-G	893-1037-2-ND	2.5V Supervisor, CMOS Output	SOT23-3	652.50/3,000		
XC61HC3012MR-G	893-1038-1-ND	3V Supervisor, CMOS Output	SOT23-3	.73	.61	.48
XC61HC3012MR-G	893-1038-2-ND	3V Supervisor, CMOS Output	SOT23-3	652.50/3,000		
XC61HN1612MR-G	893-1039-1-ND	1.6V Supervisor, N-Channel Output	SOT23-3	.73	.61	.48
XC61HN1612MR-G	893-1039-2-ND	1.6V Supervisor, N-Channel Output	SOT23-3	652.50/3,000		
XC61HN1812MR-G	893-1040-1-ND	1.8V Supervisor, N-Channel Output	SOT23-3	.73	.61	.48
XC61HN1812MR-G	893-1040-2-ND	1.8V Supervisor, N-Channel Output	SOT23-3	652.50/3,000		
XC61HN2512MR-G	893-1041-1-ND	2.5V Supervisor, N-Channel Output	SOT23-3	.73	.61	.48
XC61HN2512MR-G	893-1041-2-ND	2.5V Supervisor, N-Channel Output	SOT23-3	652.50/3,000		
XC61HN3012MR-G	893-1042-1-ND	3V Supervisor, N-Channel Output	SOT23-3	.73	.61	.48
XC61HN3012MR-G	893-1042-2-ND	3V Supervisor, N-Channel Output	SOT23-3	652.50/3,000		
XC61GC1502HR-G	893-1043-1-ND	1.5V Supervisor, CMOS Output	USP-3	.60	.51	.40
XC61GC1502HR-G	893-1043-2-ND	1.5V Supervisor, CMOS Output	USP-3	540.00/3,000		
XC61GC1802HR-G	893-1044-1-ND	1.8V Supervisor, CMOS Output	USP-3	.60	.51	.40
XC61GC1802HR-G	893-1044-2-ND	1.8V Supervisor, CMOS Output	USP-3	540.00/3,000		
XC61GC2502HR-G	893-1045-1-ND	2.5V Supervisor, CMOS Output	USP-3	.60	.51	.40
XC61GC2502HR-G	893-1045-2-ND	2.5V Supervisor, CMOS Output	USP-3	540.00/3,000		
XC61GC3002HR-G	893-1046-1-ND	3V Supervisor, CMOS Output	USP-3	.60	.51	.40
XC61GC3002HR-G	893-1046-2-ND	3V Supervisor, CMOS Output	USP-3	540.00/3,000		
XC61GN1002HR-G	893-1047-1-ND	1V Supervisor, N-Channel Output	USP-3	.60	.51	.40
XC61GN1002HR-G	893-1047-2-ND	1V Supervisor, N-Channel Output	USP-3	540.00/3,000		
XC61GN1802HR-G	893-1048-1-ND	1.8V Supervisor, N-Channel Output	USP-3	.60	.51	.40
XC61GN1802HR-G	893-1048-2-ND	1.8V Supervisor, N-Channel Output	USP-3	540.00/3,000		
XC61GN2002HR-G	893-1049-1-ND	2V Supervisor, N-Channel Output	USP-3	.60	.51	.40
XC61GN2002HR-G	893-1049-2-ND	2V Supervisor, N-Channel Output	USP-3	540.00/3,000		
XC61GN2502HR-G	893-1050-1-ND	2.5V Supervisor, N-Channel Output	USP-3	.60	.51	.40
XC61GN2502HR-G	893-1050-2-ND	2.5V Supervisor, N-Channel Output	USP-3	540.00/3,000		
XC61GN3002HR-G	893-1051-1-ND	3V Supervisor, N-Channel Output	USP-3	.60	.51	.40
XC61GN3002HR-G	893-1051-2-ND	3V Supervisor, N-Channel Output	USP-3	540.00/3,000		
		Voltage Regulators				
XC6201P252MR-G	893-1052-1-ND	2.5V Positive Voltage Regulator	SOT-25	.65	.55	.43
XC6201P252MR-G	893-1052-2-ND	2.5V Positive Voltage Regulator	SOT-25	585.00/3,000		
XC6201P282MR-G	893-1053-1-ND	2.8V Positive Voltage Regulator	SOT-25	.65	.55	.43
XC6201P282MR-G	893-1053-2-ND	2.8V Positive Voltage Regulator	SOT-25	585.00/3,000		
XC6201P332MR-G	893-1054-1-ND	3.3V Positive Voltage Regulator	SOT-25	.65	.55	.43
XC6201P332MR-G	893-1054-2-ND	3.3V Positive Voltage Regulator	SOT-25	585.00/3,000		
XC6201P502MR-G	893-1055-1-ND	5V Positive Voltage Regulator	SOT-25	.65	.55	.43
XC6201P502MR-G	893-1055-2-ND	5V Positive Voltage Regulator	SOT-25	585.00/3,000		
XC6201P252PR-G	893-1056-1-ND	2.5V Positive Voltage Regulator	SOT-89	.65	.55	.43
XC6201P252PR-G	893-1056-2-ND	2.5V Positive Voltage Regulator	SOT-89	208.00/1,000		
XC6201P282PR-G	893-1057-1-ND	2.8V Positive Voltage Regulator	SOT-89	.65	.55	.43
XC6201P282PR-G	893-1057-2-ND	2.8V Positive Voltage Regulator	SOT-89	208.00/1,000		
XC6201P332PR-G	893-1058-1-ND	3.3V Positive Voltage Regulator	SOT-89	.65	.55	.43
XC6201P332PR-G	893-1058-2-ND	3.3V Positive Voltage Regulator	SOT-89	208.00/1,000		
XC6201P502PR-G	893-1059-1-ND	5V Positive Voltage Regulator	SOT-89	.65	.55	.43
XC6201P502PR-G	893-1059-2-ND	5V Positive Voltage Regulator	SOT-89	208.00/1,000		
XC6204B182MR-G	893-1060-1-ND	1.8V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B182MR-G	893-1060-2-ND	1.8V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6204B252MR-G	893-1061-1-ND	2.5V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B252MR-G	893-1061-2-ND	2.5V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6204B282MR-G	893-1062-1-ND	2.8V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B282MR-G	893-1062-2-ND	2.8V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6204B302MR-G	893-1063-1-ND	3V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B302MR-G	893-1063-2-ND	3V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6204B332MR-G	893-1064-1-ND	3.3V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B332MR-G	893-1064-2-ND	3.3V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6204B502MR-G	893-1065-1-ND	5V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6204B502MR-G	893-1065-2-ND	5V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F182MR-G	893-1066-1-ND	1.8V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F182MR-G	893-1066-2-ND	1.8V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F252MR-G	893-1067-1-ND	2.5V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F252MR-G	893-1067-2-ND	2.5V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F282MR-G	893-1068-1-ND	2.8V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F282MR-G	893-1068-2-ND	2.8V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F302MR-G	893-1069-1-ND	3V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F302MR-G	893-1069-2-ND	3V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F332MR-G	893-1070-1-ND	3.3V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F332MR-G	893-1070-2-ND	3.3V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6209F502MR-G	893-1071-1-ND	5V LDO Voltage Regulator	SOT-25	.70	.59	.47
XC6209F502MR-G	893-1071-2-ND	5V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6210B182MR	893-1072-1-ND	1.8V LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6210B182MR	893-1072-2-ND	1.8V LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6210B252MR	893-1073-1-ND	2.5V LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6210B252MR	893-1073-2-ND	2.5V LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6210B302MR	893-1074-1-ND	3V LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6210B302MR	893-1074-2-ND	3V LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6210B332MR	893-1075-1-ND	3.3V LDO Voltage Regulator	SOT-25	.68	.60	.51

* *RoHS Compliant*

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(Continued)

TOREX Digi-Reel® (Cont.) NEW! POWER MANAGEMENT

RoHS Compliant

Torex Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
XC6210B332MR	893-1075-2-ND	3.3V LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6215B182MR-G	893-1076-1-ND	1.8V LDO Voltage Regulator	SOT-25	.60	.53	.45
XC6215B182MR-G	893-1076-2-ND	1.8V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6215B252MR-G	893-1077-1-ND	2.5V LDO Voltage Regulator	SOT-25	.60	.53	.45
XC6215B252MR-G	893-1077-2-ND	2.5V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6215B332MR-G	893-1078-1-ND	3.3V LDO Voltage Regulator	SOT-25	.60	.53	.45
XC6215B332MR-G	893-1078-2-ND	3.3V LDO Voltage Regulator	SOT-25	630.00/3,000		
XC6216C202MR-G	893-1079-1-ND	2V Positive Voltage Regulator	SOT-25	.96	.84	.72
XC6216C202MR-G	893-1079-2-ND	2V Positive Voltage Regulator	SOT-25	1008.00/3,000		
XC6216C202PR-G	893-1080-1-ND	2V Positive Voltage Regulator	SOT-89	.94	.85	.73
XC6216C202PR-G	893-1080-2-ND	2V Positive Voltage Regulator	SOT-89	375.00/1,000		
XC6217A182MR	893-1081-1-ND	1.8V LDO Voltage Regulator	SOT-25	.64	.56	.48
XC6217A182MR	893-1081-2-ND	1.8V LDO Voltage Regulator	SOT-25	672.00/3,000		
XC6217A252MR	893-1082-1-ND	2.5V LDO Voltage Regulator	SOT-25	.64	.56	.48
XC6217A252MR	893-1082-2-ND	2.5V LDO Voltage Regulator	SOT-25	672.00/3,000		
XC6217A302MR	893-1083-1-ND	3V LDO Voltage Regulator	SOT-25	.64	.56	.48
XC6217A302MR	893-1083-2-ND	3V LDO Voltage Regulator	SOT-25	672.00/3,000		
XC6217A332MR	893-1084-1-ND	3.3V LDO Voltage Regulator	SOT-25	.64	.56	.48
XC6217A332MR	893-1084-2-ND	3.3V LDO Voltage Regulator	SOT-25	672.00/3,000		
XC6218P182NR	893-1085-1-ND	1.8V LDO Voltage Regulator	SSOT-24	.55	.47	.37
XC6218P182NR	893-1085-2-ND	1.8V LDO Voltage Regulator	SSOT-24	495.00/3,000		
XC6218P252NR	893-1086-1-ND	2.5V LDO Voltage Regulator	SSOT-24	.55	.47	.37
XC6218P252NR	893-1086-2-ND	2.5V LDO Voltage Regulator	SSOT-24	495.00/3,000		
XC6218P332NR	893-1087-1-ND	3.3V LDO Voltage Regulator	SSOT-24	.55	.47	.37
XC6218P332NR	893-1087-2-ND	3.3V LDO Voltage Regulator	SSOT-24	495.00/3,000		
XC6220B121MR-G	893-1129-1-ND	1.2V LDO Voltage Regulator	SOT-25	.88	.77	.66
XC6220B121MR-G	893-1129-2-ND	1.2V LDO Voltage Regulator	SOT-25	924.00/3,000		
XC6220B121PR-G	893-1124-1-ND	1.2V LDO Voltage Regulator	SOT89-5	.96	.84	.72
XC6220B121PR-G	893-1124-2-ND	1.2V LDO Voltage Regulator	SOT89-5	372.00/1,000		
XC6220B181MR-G	893-1130-1-ND	1.8V LDO Voltage Regulator	SOT-25	.88	.77	.66
XC6220B181MR-G	893-1130-2-ND	1.8V LDO Voltage Regulator	SOT-25	924.00/3,000		
XC6220B181PR-G	893-1125-1-ND	1.8V LDO Voltage Regulator	SOT89-5	.96	.84	.72
XC6220B181PR-G	893-1125-2-ND	1.8V LDO Voltage Regulator	SOT89-5	372.00/1,000		
XC6220B281MR-G	893-1131-1-ND	2.8V LDO Voltage Regulator	SOT-25	.88	.77	.66
XC6220B281MR-G	893-1131-2-ND	2.8V LDO Voltage Regulator	SOT-25	924.00/3,000		
XC6220B281PR-G	893-1126-1-ND	2.8V LDO Voltage Regulator	SOT89-5	.96	.84	.72
XC6220B281PR-G	893-1126-2-ND	2.8V LDO Voltage Regulator	SOT89-5	372.00/1,000		
XC6220B281MR-G	893-1132-1-ND	2.85V LDO Voltage Regulator	SOT-25	.88	.77	.66
XC6220B281MR-G	893-1132-2-ND	2.85V LDO Voltage Regulator	SOT-25	924.00/3,000		
XC6220B28BPR-G	893-1127-1-ND	2.85V LDO Voltage Regulator	SOT89-5	.96	.84	.72
XC6220B28BPR-G	893-1127-2-ND	2.85V LDO Voltage Regulator	SOT89-5	372.00/1,000		
XC6220B331MR-G	893-1133-1-ND	3.3V LDO Voltage Regulator	SOT-25	.88	.77	.66
XC6220B331MR-G	893-1133-2-ND	3.3V LDO Voltage Regulator	SOT-25	924.00/3,000		
XC6220B331PR-G	893-1128-1-ND	3.3V LDO Voltage Regulator	SOT89-5	.96	.84	.72
XC6220B331PR-G	893-1128-2-ND	3.3V LDO Voltage Regulator	SOT89-5	372.00/1,000		
XC6221A152MR-G	893-1088-1-ND	1.5V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A152MR-G	893-1088-2-ND	1.5V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A182MR-G	893-1089-1-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A182MR-G	893-1089-2-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A252MR-G	893-1090-1-ND	2.5V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A252MR-G	893-1090-2-ND	2.5V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A282MR-G	893-1091-1-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A282MR-G	893-1091-2-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A28AMR-G	893-1092-1-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A28AMR-G	893-1092-2-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A302MR-G	893-1093-1-ND	3V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A302MR-G	893-1093-2-ND	3V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221A332MR-G	893-1094-1-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221A332MR-G	893-1094-2-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B152MR-G	893-1095-1-ND	1.5V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B152MR-G	893-1095-2-ND	1.5V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B182MR-G	893-1096-1-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B182MR-G	893-1096-2-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B252MR-G	893-1097-1-ND	2.5V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B252MR-G	893-1097-2-ND	2.5V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B282MR-G	893-1098-1-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B282MR-G	893-1098-2-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B28AMR-G	893-1099-1-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B28AMR-G	893-1099-2-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B302MR-G	893-1100-1-ND	3V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B302MR-G	893-1100-2-ND	3V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6221B332MR-G	893-1101-1-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	.50	.42	.33
XC6221B332MR-G	893-1101-2-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	450.00/3,000		
XC6222B121MR-G	893-1139-1-ND	1.2V High Speed LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6222B121MR-G	893-1139-2-ND	1.2V High Speed LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6222B121PR-G	893-1134-1-ND	1.2V High Speed LDO Voltage Regulator	SOT89-5	.76	.67	.57
XC6222B121PR-G	893-1134-2-ND	1.2V High Speed LDO Voltage Regulator	SOT89-5	294.50/1,000		
XC6222B181MR-G	893-1140-1-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6222B181MR-G	893-1140-2-ND	1.8V High Speed LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6222B181PR-G	893-1135-1-ND	1.8V High Speed LDO Voltage Regulator	SOT89-5	.76	.67	.57
XC6222B181PR-G	893-1135-2-ND	1.8V High Speed LDO Voltage Regulator	SOT89-5	294.50/1,000		
XC6222B281MR-G	893-1141-1-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6222B281MR-G	893-1141-2-ND	2.8V High Speed LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6222B281PR-G	893-1136-1-ND	2.8V High Speed LDO Voltage Regulator	SOT89-5	.76	.67	.57
XC6222B281PR-G	893-1136-2-ND	2.8V High Speed LDO Voltage Regulator	SOT89-5	294.50/1,000		
XC6222B28BMR-G	893-1142-1-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6222B28BMR-G	893-1142-2-ND	2.85V High Speed LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6222B28BPR-G	893-1137-1-ND	2.85V High Speed LDO Voltage Regulator	SOT89-5	.76	.67	.57
XC6222B28BPR-G	893-1137-2-ND	2.85V High Speed LDO Voltage Regulator	SOT89-5	294.50/1,000		
XC6222B331MR-G	893-1143-1-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	.68	.60	.51
XC6222B331MR-G	893-1143-2-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	714.00/3,000		
XC6222B331PR-G	893-1138-1-ND	3.3V High Speed LDO Voltage Regulator	SOT89-5	.76	.67	.57
XC6222B331PR-G	893-1138-2-ND	3.3V High Speed LDO Voltage Regulator	SOT89-5	294.50/1,000		
XC6223B2519R-G	893-1149-1-ND	2.5V High Speed LDO Voltage Regulator	USPQ-4B03	.66	.53	.40
XC6223B2519R-G	893-1149-2-ND	2.5V High Speed LDO Voltage Regulator	USPQ-4B03	870.00/5,000		
XC6223B3319R-G	893-1148-1-ND	3.3V High Speed LDO Voltage Regulator	USPQ-4B03	.66	.53	.40
XC6223B3319R-G	893-1148-2-ND	3.3V High Speed LDO Voltage Regulator	USPQ-4B03	870.00/5,000		
XC6223D3019R-G	893-1147-1-ND	3V High Speed LDO Voltage Regulator	USPQ-4B03	.66	.53	.40
XC6223D3019R-G	893-1147-2-ND	3V High Speed LDO Voltage Regulator	USPQ-4B03	870.00/5,000		
XC6701B332MR	893-1102-1-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	.90	.79	.68
XC6701B332MR	893-1102-2-ND	3.3V High Speed LDO Voltage Regulator	SOT-25	945.00/3,000		
XC6701B502MR	893-1103-1-ND	5V High Speed LDO Voltage Regulator	SOT-25	.90	.79	.68
XC6701B502MR	893-1103-2-ND	5V High Speed LDO Voltage Regulator	SOT-25	945.00/3,000		
Load Switches						
XC8102AA01MR-G	893-1146-1-ND	400mA Load Switch	SOT-25	.55	.47	.37
XC8102AA01MR-G	893-1146-2-ND	400mA Load Switch	SOT-25	495.00/3,000		

TOREX Digi-Reel® (Cont.) NEW! POWER MANAGEMENT

RoHS Compliant

Torex Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
Battery Chargers						
XC6802A42XMR-G	893-1145-1-ND	1-Cell Li-Ion Battery Charger	SOT-25	1.43	1.30	1.11
XC6802A42XMR-G	893-1145-2-ND	1-Cell Li-Ion Battery Charger	SOT-25	1539.00/3,000		
XC6802A42XPR-G	893-1144-1-ND	1-Cell Li-Ion Battery Charger	SOT89-5	1.43	1.30	1.11
XC6802A42XPR-G	893-1144-2-ND	1-Cell Li-Ion Battery Charger	SOT89-5	570.00/1,000		
DC/DC Controllers						
XC9221A095MR	893-1105-1-ND	500kHz DC/DC Step-Down Controller	SOT-25	1.20	1.09	.93
XC9221A095MR	893-1105-2-ND	500kHz DC/DC Step-Down Controller	SOT-25	1296.00/3,000		
XC9221A09AMR	893-1106-1-ND	1MHz DC/DC Step-Down Controller	SOT-25	1.20	1.09	.93
XC9221A09AMR	893-1106-2-ND	1MHz DC/DC Step-Down Controller	SOT-25	1296.00/3,000		
DC/DC Converters						
XC9128D45CAR	893-1104-1-ND	.45V Step-Up DC/DC Converter	10-MSOP	1.69	1.53	1.31
XC9128D45CAR	893-1104-2-ND	.45V Step-Up DC/DC Converter	10-MSOP	675.00/1,000		
XC9131F05CDR-G	893-1123-1-ND	3.3V Step-Up DC/DC Converter	USP-10B	1.87	1.72	1.46
XC9131F05CDR-G	893-1123-2-ND	3.3V Step-Up DC/DC Converter	USP-10B	2028.00/3,000		
XC9235A12CMR-G	893-1107-1-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A12CMR-G	893-1107-2-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A15CMR-G	893-1108-1-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A15CMR-G	893-1108-2-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A18CMR-G	893-1109-1-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A18CMR-G	893-1109-2-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A30CMR-G	893-1110-1-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A30CMR-G	893-1110-2-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A12DMR-G	893-1111-1-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A12DMR-G	893-1111-2-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A15DMR-G	893-1112-1-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A15DMR-G	893-1112-2-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A18DMR-G	893-1113-1-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A18DMR-G	893-1113-2-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9235A30DMR-G	893-1114-1-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9235A30DMR-G	893-1114-2-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A12CMR-G	893-1115-1-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A12CMR-G	893-1115-2-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A15CMR-G	893-1116-1-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A15CMR-G	893-1116-2-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A18CMR-G	893-1117-1-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A18CMR-G	893-1117-2-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A30CMR-G	893-1118-1-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A30CMR-G	893-1118-2-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A12DMR-G	893-1119-1-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A12DMR-G	893-1119-2-ND	1.2V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A15DMR-G	893-1120-1-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A15DMR-G	893-1120-2-ND	1.5V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A18DMR-G	893-1121-1-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A18DMR-G	893-1121-2-ND	1.8V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XC9236A30DMR-G	893-1122-1-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1.50	1.36	1.16
XC9236A30DMR-G	893-1122-2-ND	3V Sync. Step-Down DC/DC Converter	SOT-25	1620.00/3,000		
XCL206B123AR-G	893-1154-1-ND	1.2V Sync. Step-Down DC/DC Converter	USP-6EL	2.50	2.00	1.80
XCL206B123AR-G	893-1154-2-ND	1.2V Sync. Step-Down DC/DC Converter	USP-6EL	2969.99/3,000		
XCL206B153AR-G	893-1153-1-ND	1.5V Sync. Step-Down DC/DC Converter	USP-6EL	2.50	2.00	1.80
XCL206B153AR-G	893-1153-2-ND	1.5V Sync. Step-Down DC/DC Converter	USP-6EL	2969.99/3,000		
XCL206B183AR-G	893-1152-1-ND	1.8V Sync. Step-Down DC/DC Converter	USP-6EL	2.50	2.00	1.80
XCL206B183AR-G	893-1152-2-ND	1.8V Sync. Step-Down DC/DC Converter	USP-6EL	2969.99/3,000		
XCL206B283AR-G	893-1151-1-ND	2.8V Sync. Step-Down DC/DC Converter	USP-6EL	2.50	2.00	1.80
XCL206B283AR-G	893-1151-2-ND	2.8V Sync. Step-Down DC/DC Converter	USP-6EL	2969.99/3,000		
XCL206B303AR-G	893-1150-1-ND	3V Sync. Step-Down DC/DC Converter	USP-6EL	2.50	2.00	1.80
XCL206B303AR-G	893-1150-2-ND	3V Sync. Step-Down DC/DC Converter	USP-6EL	2969.99/3,000		

Micron Digi-Reel® DRAM — *Due to market fluctuations, please refer to the Digi-Key website for most current pricing.*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
SDRAM						
MT48H4M16LFB4-75 IT:H TR	557-1391-1-ND	Mobile SDRAM, 64Mb*	54-VFBGA	10.18	9.22	8.45
MT48H4M16LFB4-75 IT:H TR	557-1391-2-ND	Mobile SDRAM, 64Mb*	54-VFBGA	5184.00/1,000		
MT48H4M16LFB4-75:H TR	557-1392-1-ND	Mobile SDRAM, 64Mb*	54-VFBGA	6.89	6.24	5.72
MT48H4M16LFB4-75:H TR	557-1392-2-ND	Mobile SDRAM, 64Mb*	54-VFBGA	3510.00/1,000		
MT48H16M32LFCM-75 IT:B TR	557-1387-1-ND	Mobile SDRAM, 512Mb*	90-VFBGA	21.85	19.95	18.53
MT48H16M32LFCM-75 IT:B TR	557-1387-2-ND	Mobile SDRAM, 512Mb*	90-VFBGA	12635.00/1,000		
MT48H16M32LFCM-75:B TR	557-1388-1-ND	Mobile SDRAM, 512Mb*	90-VFBGA	17.53	16.01	14.86
MT48H16M32LFCM-75:B TR	557-1388-2-ND	Mobile SDRAM, 512Mb*	90-VFBGA	10135.00/1,000		
MT48H32M16LFBF-75 IT:B TR	557-1389-1-ND	Mobile SDRAM, 512Mb*	54-VFBGA	20.54	18.76	17.42
MT48H32M16LFBF-75 IT:B TR	557-1389-2-ND	Mobile SDRAM, 512Mb*	54-VFBGA	11877.00/1,000		
MT48H32M16LFBF-75:B TR	557-1390-1-ND	Mobile SDRAM, 512Mb*	54-VFBGA	17.53	16.01	14.86
MT48H32M16LFBF-75:B TR	557-1390-2-ND	Mobile SDRAM, 512Mb*	54-VFBGA	10135.00/1,000		
MT48LC2M32B2P-6:G TR	557-1071-1-ND	SDRAM, 64Mb	86-TSOP	6.60	5.94	5.39
MT48LC2M32B2P-6:G TR	557-1071-2-ND	SDRAM, 64Mb	86-TSOP	3080.00/1,000		
MT48LC2M32B2P-7 IT:G TR	557-1072-1-ND	SDRAM, 64Mb	86-TSOP	7.69	6.96	6.38
MT48LC2M32B2P-7 IT:G TR	557-1072-2-ND	SDRAM, 64Mb	86-TSOP	3915.00/1,000		
MT48LC2M32B2P-7:G TR	557-1073-1-ND	SDRAM, 64Mb	86-TSOP	6.60	5.94	5.39
MT48LC2M32B2P-7:G TR	557-1073-2-ND	SDRAM, 64Mb	86-TSOP	3080.00/1,000		
MT48LC2M32B2TG-6:G TR	557-1074-1-ND	SDRAM, 64Mb	86-TSOP	7.35	6.62	6.01
MT48LC2M32B2TG-6:G TR	557-1074-2-ND	SDRAM, 64Mb	86-TSOP	3430.00/1,000		
MT48LC2M32B2TG-7:G TR	557-1076-1-ND	SDRAM, 64Mb	86-TSOP	7.35	6.62	6.01
MT48LC2M32B2TG-7:G TR	557-1076-2-ND	SDRAM, 64Mb	86-TSOP	3430.00/1,000		
MT48LC4M16A2P-6:G TR	557-1224-1-ND	SDRAM, 64Mb*	54-TSOP	5.25	4.73	4.29
MT48LC4M16A2P-6:G TR	557-1224-2-ND	SDRAM, 64Mb*	54-TSOP	2450.00/1,000		
MT48LC4M16A2P-7E:G TR	557-1089-1-ND	SDRAM, 64Mb	54-TSOP	5.25	4.73	4.29
MT48LC4M16A2P-7E:G TR	557-1089-2-ND	SDRAM, 64Mb	54-TSOP	2450.00/1,000		
MT48LC4M16A2P-75 IT:G TR	557-1087-1-ND	SDRAM, 64Mb	54-TSOP	7.35	6.62	6.01
MT48LC4M16A2P-75 IT:G TR	557-1087-2-ND	SDRAM, 64Mb	54-TSOP	3430.00/1,000		
MT48LC4M16A2P-75:G TR	557-1088-1-ND	SDRAM, 64Mb	54-TSOP	5.25	4.73	4.29
MT48LC4M16A2P-75:G TR	557-1088-2-ND	SDRAM, 64Mb	54-TSOP	2450.00/1,000		
MT48LC4M16A2TG-7E:G TR	557-1092-1-ND	SDRAM, 64Mb	54-TSOP	5.85	5.27	4.78
MT48LC4M16A2TG-7E:G TR	557-1092-2-ND	SDRAM, 64Mb	54-TSOP	2730.00/1,000		
MT48LC4M16A2TG-75 IT:G TR	557-1090-1-ND	SDRAM, 64Mb	54-TSOP	7.16	6.48	5.94
MT48LC4M16A2TG-75 IT:G TR	557-1090-2-ND	SDRAM, 64Mb	54-TSOP	3645.00/1,000		
MT48LC4M16A2TG-75:G TR	557-1091-1-ND	SDRAM, 64Mb	54-TSOP	5.85	5.27	4.78
MT48LC4M16A2TG-75:G TR	557-1091-2-ND	SDRAM, 64Mb	54-TSOP	2730.00/1,000		
MT48LC4M32B2B5-7:G TR	557-1221-1-ND	SDRAM, 128Mb*	90-VFBGA	13.52	12.35	11.47
MT48LC4M32B2B5-7:G TR	557-1221-2-ND	SDRAM, 128Mb*	90-VFBGA	7820.00/1,000		
MT48LC4M32B2B5-7 IT:G TR	557-1195-1-ND	SDRAM, 128Mb	90-VFBGA	14.49	13.23	12.29
MT48LC4M32B2B5-7 IT:G TR	557-1195-2-ND	SDRAM, 128Mb	90-VFBGA	8379.00/1,000		
MT48LC4M32B2F5-7 IT:G TR	557-1093-1-ND	SDRAM, 128Mb	90-VFBGA	15.99	14.60	13.56
MT48LC4M32B2F5-7 IT:G TR	557-1093-2-ND	SDRAM, 128Mb	90-VFBGA	9244.00/1,000		
MT48LC4M32B2F5-7:G TR	557-1094-1-ND	SDRAM, 128Mb	90-VFBGA	15.23	13.91	12.91

** RoHS Compliant*

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(Continued)

Micron DigiReel® (Cont.) DRAM — *Due to market fluctuations, please refer to the Digi-Key website for most current pricing.*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MT48LC4M32B2F5-7:G TR	557-1094-2-ND	SDRAM, 128Mb	90-VFBGA	8805.00/1,000		
MT48LC4M32B2P-6:G TR	557-1196-1-ND	SDRAM, 128Mb	86-TSOP	12.53	11.36	10.41
MT48LC4M32B2P-6:G TR	557-1196-2-ND	SDRAM, 128Mb	86-TSOP	6386.00/1,000		
MT48LC4M32B2TG-6:G TR	557-1095-1-ND	SDRAM, 128Mb	86-TSOP	12.96	11.74	10.76
MT48LC4M32B2TG-6:G TR	557-1095-2-ND	SDRAM, 128Mb	86-TSOP	6602.00/1,000		
MT48LC4M32B2P-7:G TR	557-1216-1-ND	SDRAM, 128Mb*	86-TSOP	12.53	11.36	10.41
MT48LC4M32B2P-7:G TR	557-1216-2-ND	SDRAM, 128Mb*	86-TSOP	6386.00/1,000		
MT48LC4M32B2P-7 IT:G TR	557-1197-1-ND	SDRAM, 128Mb	86-TSOP	12.08	11.03	10.24
MT48LC4M32B2P-7 IT:G TR	557-1197-2-ND	SDRAM, 128Mb	86-TSOP	6983.00/1,000		
MT48LC4M32B2TG-7 IT:G TR	557-1096-1-ND	SDRAM, 128Mb	86-TSOP	12.33	11.26	10.46
MT48LC4M32B2TG-7 IT:G TR	557-1096-2-ND	SDRAM, 128Mb	86-TSOP	7129.00/1,000		
MT48LC8M8A2TG-75:G TR	557-1105-1-ND	SDRAM, 64Mb	54-TSOP	6.89	6.24	5.72
MT48LC8M8A2TG-75:G TR	557-1105-2-ND	SDRAM, 64Mb	54-TSOP	3510.00/1,000		
MT48LC8M16A2B4-75 IT:G TR	557-1222-1-ND	SDRAM, 128Mb*	54-VFBGA	11.85	10.82	10.05
MT48LC8M16A2B4-75 IT:G TR	557-1222-2-ND	SDRAM, 128Mb*	54-VFBGA	6850.00/1,000		
MT48LC8M16A2P-7E:G TR	557-1100-1-ND	SDRAM, 128Mb	54-TSOP	8.35	7.56	6.93
MT48LC8M16A2P-7E:G TR	557-1100-2-ND	SDRAM, 128Mb	54-TSOP	4253.00/1,000		
MT48LC8M16A2P-75:G TR	557-1217-1-ND	SDRAM, 128Mb*	54-TSOP	8.08	7.32	6.71
MT48LC8M16A2P-75:G TR	557-1217-2-ND	SDRAM, 128Mb*	54-TSOP	4118.00/1,000		
MT48LC8M16A2P-75 IT:G TR	557-1099-1-ND	SDRAM, 128Mb	54-TSOP	10.47	9.48	8.69
MT48LC8M16A2P-75 IT:G TR	557-1099-2-ND	SDRAM, 128Mb	54-TSOP	5333.00/1,000		
MT48LC8M16A2TG-7E:G TR	557-1102-1-ND	SDRAM, 128Mb	54-TSOP	9.41	8.52	7.81
MT48LC8M16A2TG-7E:G TR	557-1102-2-ND	SDRAM, 128Mb	54-TSOP	4793.00/1,000		
MT48LC8M16A2TG-75 IT:G TR	557-1101-1-ND	SDRAM, 128Mb	54-TSOP	10.73	9.72	8.91
MT48LC8M16A2TG-75 IT:G TR	557-1101-2-ND	SDRAM, 128Mb	54-TSOP	5468.00/1,000		
MT48LC8M16LFB4-75M:G TR	557-1394-1-ND	Mobile SDRAM, 128Mb*	54-VFBGA	12.56	11.47	10.65
MT48LC8M16LFB4-75M:G TR	557-1394-2-ND	Mobile SDRAM, 128Mb*	54-VFBGA	7262.00/1,000		
MT48LC16M8A2BB-7E:G TR	557-1393-1-ND	SDRAM, 128Mb*	60-FBGA	8.50	7.71	7.06
MT48LC16M16A2BG-7E:D TR	557-1220-1-ND	SDRAM, 256Mb*	54-VFBGA	11.59	10.59	9.83
MT48LC16M16A2BG-7E:D TR	557-1220-2-ND	SDRAM, 256Mb*	54-VFBGA	6703.00/1,000		
MT48LC16M16A2BG-75 IT:D TR	557-1189-1-ND	SDRAM, 256Mb	54-VFBGA	14.49	13.23	12.29
MT48LC16M16A2BG-75 IT:D TR	557-1189-2-ND	SDRAM, 256Mb	54-VFBGA	8379.00/1,000		
MT48LC16M16A2BG-75:D TR	557-1190-1-ND	SDRAM, 256Mb	54-VFBGA	11.59	10.59	9.83
MT48LC16M16A2BG-75:D TR	557-1190-2-ND	SDRAM, 256Mb	54-VFBGA	6703.00/1,000		
MT48LC16M16A2FG-7E:D TR	557-1226-1-ND	SDRAM, 256Mb*	54-VFBGA	14.38	13.13	12.19
MT48LC16M16A2FG-7E:D TR	557-1226-2-ND	SDRAM, 256Mb*	54-VFBGA	8313.00/1,000		
MT48LC16M16A2FG-75 IT:D TR	557-1056-1-ND	SDRAM, 256Mb	54-VFBGA	15.11	13.80	12.82
MT48LC16M16A2FG-75 IT:D TR	557-1056-2-ND	SDRAM, 256Mb	54-VFBGA	8738.00/1,000		
MT48LC16M16A2FG-75:D TR	557-1057-1-ND	SDRAM, 256Mb	54-VFBGA	14.38	13.13	12.19
MT48LC16M16A2FG-75:D TR	557-1057-2-ND	SDRAM, 256Mb	54-VFBGA	8313.00/1,000		
MT48LC16M16A2P-6A:D TR	557-1223-1-ND	SDRAM, 256Mb*	54-TSOP	10.73	9.72	8.91
MT48LC16M16A2P-6A:D TR	557-1223-2-ND	SDRAM, 256Mb*	54-TSOP	5468.00/1,000		
MT48LC16M16A2P-7E:D TR	557-1060-1-ND	SDRAM, 256Mb	54-TSOP	10.73	9.72	8.91
MT48LC16M16A2P-7E:D TR	557-1060-2-ND	SDRAM, 256Mb	54-TSOP	5468.00/1,000		
MT48LC16M16A2P-75 IT:D TR	557-1058-1-ND	SDRAM, 256Mb	54-TSOP	12.99	11.76	10.78
MT48LC16M16A2P-75 IT:D TR	557-1058-2-ND	SDRAM, 256Mb	54-TSOP	6615.00/1,000		
MT48LC16M16A2P-75:D TR	557-1059-1-ND	SDRAM, 256Mb	54-TSOP	10.73	9.72	8.91
MT48LC16M16A2P-75:D TR	557-1059-2-ND	SDRAM, 256Mb	54-TSOP	5468.00/1,000		
MT48LC16M16A2TG-75 IT:D TR	557-1061-1-ND	SDRAM, 256Mb	54-TSOP	12.70	11.60	10.77
MT48LC16M16A2TG-75 IT:D TR	557-1061-2-ND	SDRAM, 256Mb	54-TSOP	7342.00/1,000		
MT48LC16M16A2P-75 L:D TR	557-1191-1-ND	SDRAM, 256Mb	54-TSOP	12.99	11.76	10.78
MT48LC16M16A2P-75 L:D TR	557-1191-2-ND	SDRAM, 256Mb	54-TSOP	6615.00/1,000		
MT48LC16M16A2TG-75:D TR	557-1063-1-ND	SDRAM, 256Mb	54-TSOP	11.79	10.68	9.79
MT48LC16M16A2TG-75:D TR	557-1063-2-ND	SDRAM, 256Mb	54-TSOP	6008.00/1,000		
MT48LC16M16A2P-7E IT:D TR	557-1192-1-ND	SDRAM, 256Mb	54-TSOP	12.99	11.76	10.78
MT48LC16M16A2P-7E IT:D TR	557-1192-2-ND	SDRAM, 256Mb	54-TSOP	6615.00/1,000		
MT48LC16M16A2TG-7E IT:D TR	557-1064-1-ND	SDRAM, 256Mb	54-TSOP	12.70	11.60	10.77
MT48LC16M16A2TG-7E IT:D TR	557-1064-2-ND	SDRAM, 256Mb	54-TSOP	7342.00/1,000		
MT48LC16M16A2TG-7E:D TR	557-1065-1-ND	SDRAM, 256Mb	54-TSOP	11.79	10.68	9.79
MT48LC16M16A2TG-7E:D TR	557-1065-2-ND	SDRAM, 256Mb	54-TSOP	6008.00/1,000		
MT48LC32M8A2FB-7E:D TR	557-1084-1-ND	SDRAM, 256Mb	60-FBGA	10.02	9.16	8.51
MT48LC32M8A2P-7E:D TR	557-1194-1-ND	SDRAM, 256Mb	54-TSOP	11.98	10.85	9.95
MT48LC32M8A2P-7E:D TR	557-1194-2-ND	SDRAM, 256Mb	54-TSOP	6102.00/1,000		
MT48LC32M8A2P-75:D TR	557-1193-1-ND	SDRAM, 256Mb	54-TSOP	11.98	10.85	9.95
MT48LC32M8A2P-75:D TR	557-1193-2-ND	SDRAM, 256Mb	54-TSOP	6102.00/1,000		
MT48LC32M16A2P-75 IT:C TR	557-1077-1-ND	SDRAM, 512Mb	54-TSOP	46.49	44.05	40.63
MT48LC32M16A2P-75 IT:C TR	557-1077-2-ND	SDRAM, 512Mb	54-TSOP	31199.00/1,000		
MT48LC32M16A2P-75:C TR	557-1078-1-ND	SDRAM, 512Mb	54-TSOP	34.66	33.80	31.20
MT48LC32M16A2P-75:C TR	557-1078-2-ND	SDRAM, 512Mb	54-TSOP	22529.00/1,000		
MT48LC32M16A2TG-75 IT:C TR	557-1079-1-ND	SDRAM, 512Mb	54-TSOP	46.49	44.05	40.63
MT48LC32M16A2TG-75 IT:C TR	557-1079-2-ND	SDRAM, 512Mb	54-TSOP	31199.00/1,000		
MT48LC32M16A2TG-75:C TR	557-1080-1-ND	SDRAM, 512Mb	54-TSOP	34.66	33.80	31.20
MT48LC32M16A2TG-75:C TR	557-1080-2-ND	SDRAM, 512Mb	54-TSOP	22529.00/1,000		
MT48LC64M4A2P-75:D TR	557-1289-1-ND	SDRAM, 256Mb*	54-TSOP	12.67	11.48	10.52
MT48LC64M4A2P-75:D TR	557-1289-2-ND	SDRAM, 256Mb*	54-TSOP	6453.00/1,000		
MT48LC64M8A2TG-75:C TR	557-1098-1-ND	SDRAM, 512Mb	54-TSOP	31.50	30.72	28.35
MT48LC64M8A2TG-75:C TR	557-1098-2-ND	SDRAM, 512Mb	54-TSOP	20475.00/1,000		
MT48V8M32LFB5-8 IT TR	557-1107-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	18.92	18.45	17.03
DDR						
MT46H16M32LFCM-6 IT:B TR	557-1380-1-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	22.36	20.42	18.96
MT46H16M32LFCM-6 IT:B TR	557-1380-2-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	12928.00/1,000		
MT46H16M32LFCM-6:B TR	557-1381-1-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	15.94	14.56	13.52
MT46H16M32LFCM-6:B TR	557-1381-2-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	9217.00/1,000		
MT46H32M16LFBF-5:B TR	557-1382-1-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	17.53	16.01	14.86
MT46H32M16LFBF-5:B TR	557-1382-2-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	10135.00/1,000		
MT46H32M16LFBF-6 IT:B TR	557-1383-1-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	20.54	18.76	17.42
MT46H32M16LFBF-6 IT:B TR	557-1383-2-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	11877.00/1,000		
MT46H32M16LFBF-6:B TR	557-1384-1-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	17.53	16.01	14.86
MT46H32M16LFBF-6:B TR	557-1384-2-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	10135.00/1,000		
MT46H32M32LFCM-5:A TR	557-1385-1-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	30.29	29.54	27.27
MT46H32M32LFCM-6:A TR	557-1334-1-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	30.29	29.54	27.27
MT46H64M16LFCK-5:A TR	557-1386-1-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	37.80	36.86	34.02
MT46H64M16LFCK-5:A TR	557-1386-2-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	24570.00/1,000		
MT46H64M16LFCK-6 IT:A TR	557-1335-1-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	47.88	45.36	41.84
MT46H64M16LFCK-6 IT:A TR	557-1335-2-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	32130.00/1,000		
MT46H64M16LFCK-6:A TR	557-1336-1-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	32.65	31.85	29.39
MT46V16M16CY-5B:K TR	557-1445-1-ND	DDR SDRAM, 256Mb* ***NEW!***	60-FBGA	12.19	11.04	10.12
MT46V16M16CY-5B:K TR	557-1445-2-ND	DDR SDRAM, 256Mb* ***NEW!***	60-FBGA	6210.00/1,000		
MT46V16M8TG-6T IT:D TR	557-1021-1-ND	DDR SDRAM, 128Mb	66-TSOP	9.15	8.29	7.60
MT46V16M8TG-6T L:D TR	557-1022-1-ND	DDR SDRAM, 128Mb	66-TSOP	8.28	7.50	6.87
MT46V16M8TG-6T:D TR	557-1023-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.20	6.52	5.98
MT46V32M4TG-6T:D TR	557-1024-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.63	6.92	6.34
MT46V32M16BN-5B:F TR	557-1285-1-ND	DDR SDRAM, 512Mb*	60-FBGA	15.94	14.56	13.52
MT46V32M16BN-5B:F TR	557-1285-2-ND	DDR SDRAM, 512Mb*	60-FBGA	9217.00/1,000		
MT46V32M16BN-6:F TR	557-1286-1-ND	DDR SDRAM, 512Mb*	60-FBGA	15.94	14.56	13.52
MT46V32M16BN-6:F TR	557-1286-2-ND	DDR SDRAM, 512Mb*	60-FBGA	9217.00/1,000		
MT46V32M16P-5B:F TR	557-1212-1-ND	DDR SDRAM, 512Mb	66-TSOP	11.13	10.08	9.24
MT46V32M16P-5B:F TR	557-1212-2-ND	DDR SDRAM, 512Mb	66-TSOP	5670.00/1,000		
MT46V32M16P-6T:F TR	557-1283-1-ND	DDR SDRAM, 512Mb*	66-TSOP	11.13	10.08	9.24
MT46V32M16P-6T:F TR	557-1283-2-ND	DDR SDRAM, 512Mb*	66-TSOP	5670.00/1,000		
MT46V64M8BN-5B:F TR	557-1174-1-ND	DDR SDRAM, 512Mb	60-FBGA	13.89	12.69	11.78
MT46V64M8BN-5B:F TR	557-1174-2-ND	DDR SDRAM, 512Mb	60-FBGA	8033.00/1,000		
MT46V64M8FN-5B:D TR	557-1035-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.44	18.96	17.50
MT46V64M8BN-6:F TR	557-1175-1-ND	DDR SDRAM, 512Mb	60-FBGA	13.89	12.69	11.78
MT46V64M8BN-6:F TR	557-1175-2-ND	DDR SDRAM, 512Mb	60-FBGA	8033.00/1,000		
MT46V64M8TG-5B:D TR	557-1037-1-ND	DDR SDRAM, 512Mb	66-TSOP	13.25	12.11	11.24
MT46V64M8TG-5B:D TR	557-1037-2-ND	DDR SDRAM, 512Mb	66-TSOP	7847.00/1,000		
MT46V64M8P-5B:F TR	557-1284-1-ND	DDR SDRAM, 512Mb*	66-TSOP	12.53	11.36	10.41
MT46V64M8P-5B:F TR	557-1284-2-ND	DDR SDRAM, 512Mb*	66-TSOP	6386.00/1,000		
MT46V64M8P-6T:F TR	557-1176-1-ND	DDR SDRAM, 512Mb	66-TSOP	12.53	11.36	10.41
MT46V64M8P-6T:F TR	557-1176-2-ND	DDR SDRAM, 512Mb	66-TSOP	6386.00/1,000		
MT46V128M4FN-5B:D TR	557-1011-1-ND	DDR SDRAM, 512Mb	60-FBGA	20.21	19.71	18.19
MT46V128M4FN-5B:D TR	557-1011-2-ND	DDR SDRAM, 512Mb	60-FBGA	13735.00/1,000		
MT46V128M4FN-6:D TR	557-1012-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.22	18.74	17.30
MT46V128M4FN-6:D TR	557-1012-2-ND	DDR SDRAM, 512Mb	60-FBGA	13063.00/1,000		
MT46V128M4TG-5B:D TR	557-1013-1-ND	DDR SDRAM, 512Mb	66-TSOP	18.37	16.78	15.58
MT46V128M4TG-5B:D TR	557-1013-2-ND	DDR SDRAM, 512Mb	66-TSOP	10880.00/1,000		
MT46V128M4TG-6T:D TR	557-1014-1-ND	DDR SDRAM, 512Mb	66-TSOP	17.42	15.91	14.77
MT46V128M4TG-6T:D TR	557-1014-2-ND	DDR SDRAM, 512Mb	66-TSOP	10313.00/1,000		
DDR2 — RoHS Compliant						
MT47H16M16BG-3:B TR	557-1046-1-ND	DDR2 SDRAM, 256Mb	84-FBGA	14.44	13.19	12.25
MT47H16M16BG-3:B TR	557-1046-2-ND	DDR2 SDRAM, 256Mb	84-FBGA	8352.00/1,000		
MT47H32M16BT-3:A TR	557-1048-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	48.24	45.70	42.14
MT47H32M8BP-3:B TR	557-1050-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	28.64	27.93	25.78
MT47H32M8BP-37E:B TR	557-1049-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	11.36	10.38	9.64
MT47H64M4BP-37E:B TR	557-1290-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	15.09	13.78	12.80
MT47H128M4B6-3:D TR	557-1291-1-ND	DDR2 SDRAM, 512Mb	60-FBGA	15.35	—	—
MT47H128M4BT-37E:A TR	557-1044-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	27.08	26.42	24.37
MT47H256M4HQ-5E:E TR	557-1207-1-ND	DDR2 SDRAM, 1Gb	60-FBGA	31.33	30.56	28.20
DDR3 — RoHS Compliant						
MT41J64M16LA-187E:B TR	557-1378-1-ND	DDR3 SDRAM, 1Gb	96-FBGA	19.03	17.39	16.14
MT41J64M16LA-187E:B TR	557-1378-2-ND	DDR3 SDRAM, 1Gb	96-FBGA	12702.00/1,000		

Micron DigiReel® FLASH — *RoHS Compliant*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
NAND Flash						
MT29F2G08AADWP:D TR	557-1354-1-ND	2Gb, 3.3V	48-TSOP	12.54	11.45	10.63
MT29F2G08AADWP:D TR	557-1354-2-ND	2Gb, 3.3V	48-TSOP	7249.00/1,000		
MT29F2G08AADWP-ET:D TR	557-1355-1-ND	2Gb, 3.3V	48-TSOP	11.85	10.82	10.05
MT29F2G08AADWP-ET:D TR	557-1355-2-ND	2Gb, 3.3V	48-TSOP	6850.00/1,000		
MT29F2G08ABDHC:D TR	557-1356-1-ND	2Gb, 1.8V	63-VFBGA	12.54	11.45	10.63
MT29F2G08ABDHC-ET:D TR	557-1357-1-ND	2Gb, 1.8V	63-VFBGA	11.85	10.82	10.05
MT29F2G08ABDHC-ET:D TR	557-1357-2-ND	2Gb, 1.8V	63-VFBGA	6850.00/1,000		
MT29F2G16AADWP:D TR	557-1358-1-ND	2Gb, 3.3V	48-TSOP	12.30	11.14	10.21
MT29F2G16AADWP:D TR	557-1358-2-ND	2Gb, 3.3V	48-TSOP	6264.00/1,000		
MT29F2G16AADWP-ET:D TR	557-1359-1-ND	2Gb, 3.3V	48-TSOP	11.64	10.63	9.87
MT29F2G16AADWP-ET:D TR	557-1359-2-ND	2Gb, 3.3V	48-TSOP	6730.00/1,000		
MT29F2G16ABDHC:D TR	557-1360-1-ND	2Gb, 1.8V	63-VFBGA	12.30	11.14	10.21
MT29F2G16ABDHC-ET:D TR	557-1361-1-ND	2Gb, 1.8V	63-VFBGA	11.64	10.63	9.87
MT29F4G08AACWC:C TR	557-1362-1-ND	4Gb, 3.3V	48-TSOP	11.60	10.60	9.84
MT29F4G08AACWC:C TR	557-1362-2-ND	4Gb, 3.3V	48-TSOP	6868.00/1,000		
MT29F4G08AACWC-ET:C TR	557-1363-1-ND	4Gb, 3.3V	48-TSOP	12.70	11.60	10.77
MT29F4G08AACWC-ET:C TR	557-1363-2-ND	4Gb, 3.3V	48-TSOP	7517.00/1,000		
MT29F4G08ABCHC:C TR	557-1364-1-ND	4Gb, 1.8V	63-VFBGA	11.60	10.60	9.84
MT29F4G08ABCHC:C TR	557-1364-2-ND	4Gb, 1.8V	63-VFBGA	6868.00/1,000		
MT29F4G08ABCHC-ET:C TR	557-1365-1-ND	4Gb, 1.8V	63-VFBGA	12.70	11.60	10.77
MT29F4G08ABCHC-ET:C TR	557-1365-2-ND	4Gb, 1.8V	63-VFBGA	7517.00/1,000		
MT29F4G16AACWC:C TR	557-1367-1-ND	4Gb, 3.3V	48-TSOP	12.14	11.09	10.30
MT29F4G16AACWC:C TR	557-1367-2-ND	4Gb, 3.3V	48-TSOP	7186.00/1,000		
MT29F4G16AACWC-ET:C TR	557-1368-1-ND	4Gb, 3.3V	48-TSOP	13.09	11.96	11.11
MT29F4G16AACWC-ET:C TR	557-1368-2-ND	4Gb, 3.3V	48-TSOP	7753.00/1,000		
MT29F4G16ABCHC:C TR	557-1369-1-ND	4Gb, 1.8V	63-VFBGA	12.14	11.09	10.30
MT29F4G16ABCHC:C TR	557-1369-2-ND	4Gb, 1.8V	63-VFBGA	7186.00/1,000		
MT29F4G16ABCHC-ET:C TR	557-1370-1-ND	4Gb, 1.8V	63-VFBGA	13.09	11.96	11.11
MT29F4G16ABCHC-ET:C TR	557-1370-2-ND	4Gb, 1.8V	63-VFBGA	7753.00/1,000		
MT29F8G08AAAWP:A TR	557-1371-1-ND	8Gb, 3.3V	48-TSOP	16.86	15.40	14.30
MT29F8G08AAAWP:A TR	557-1371-2-ND	8Gb, 3.3V	48-TSOP	9749.00/1,000		
MT29F8G08AAAWP-ET:A TR	557-1372-1-ND	8Gb, 3.3V	48-TSOP	18.95	17.31	16.07
MT29F8G08AAAWP-ET:A TR	557-1372-2-ND	8Gb, 3.3V	48-TSOP	10959.00/1,000		
MT29F16G08DAAWP-ET:A TR	557-1413-1-ND	16Gb, 3.3V	48-TSOP	39.26	38.28	35.34
MT29F16G08DAAWP-ET:A TR	557-1413-2-ND	16Gb, 3.3V	48-TSOP	25519.00/1,000		

Micron DigiReel® PSRAM — *RoHS Compliant*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
MT45W1MW16BABB-706 WT TR	557-1006-1-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	6.22	5.60	5.08
MT45W1MW16BABB-706 WT TR	557-1006-2-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	2901.00/1,000		
MT45W1MW16BDGB-708 AT TR	557-1419-1-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	8.69	7.88	7.22
MT45W1MW16BDGB-708 AT TR	557-1419-2-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	4428.00/1,000		
MT45W2MW16BGB-701 IT TR	557-1442-1-ND	Async./Page/Burst CellularRAM, 32Mb ***NEW!***	54-VFBGA	10.20	9.24	8.47
MT45W2MW16BGB-701 IT TR	557-1442-2-ND	Async./Page/Burst CellularRAM, 32Mb ***NEW!***	54-VFBGA	5198.00/1,000		
MT45W2MW16PGA-70 IT TR	557-1317-1-ND	Async./Page CellularRAM, 32Mb	48-VFBGA	9.09	8.24	7.55
MT45W2MW16PGA-70 IT TR	557-1317-2-ND	Async./Page CellularRAM, 32Mb	48-VFBGA	4631.00/1,000		
MT45W4MW16PCGA-70 IT TR	557-1443-1-ND	Async./Page CellularRAM, 64Mb ***NEW!***	48-VFBGA	12.44	11.37	10.55
MT45W4MW16PCGA-70 IT TR	557-1443-2-ND	Async./Page CellularRAM, 64Mb ***NEW!***	48-VFBGA	7195.00/1,000		
MT45W8MW16BGX-701 IT TR	557-1444-1-ND	Async./Page/Burst CellularRAM, 128Mb ***NEW!***	54-VFBGA	13.27	12.12	11.26
MT45W8MW16BGX-701 IT TR	557-1444-2-ND	Async./Page/Burst CellularRAM, 128Mb ***NEW!***	54-VFBGA	7674.00/1,000		

** RoHS Compliant*

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(Continued)

SDRAM — *RoHS Compliant — Due to market fluctuations, please refer to the Digi-Key website for most current pricing.*

Qimonda Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HYB39S128160FE-7	675-1002-1-ND	128Mb SDRAM	54-TSOP	2.68	—	—
HYB39S128800FE-7	675-1001-1-ND	128Mb SDRAM	54-TSOP	2.68	—	—
HYB39S256800FE-7	675-1003-1-ND	256Mb SDRAM	54-TSOP	2.40	—	—
HYI39S128160FE-7	675-1019-1-ND	128Mb SDRAM	54-TSOP	2.68	—	—
HYI39S128800FE-7	675-1020-1-ND	128Mb SDRAM	54-TSOP	2.68	—	—
HYI39S128800FE-7	675-1020-2-ND	128Mb SDRAM	54-TSOP	4020.00/1,500		
DDR						
HYB25D128800CE-6	675-1005-1-ND	128Mb DDR SDRAM	66-TSOP	3.13	—	—
HYB25D128800CE-6	675-1005-2-ND	128Mb DDR SDRAM	66-TSOP	4230.00/1,500		
HYB25D512160CE-5	675-1010-1-ND	512Mb DDR SDRAM	66-TSOP	5.95	—	—
HYB25D512160CE-5	675-1010-2-ND	512Mb DDR SDRAM	66-TSOP	8925.00/1,500		
HYB25D512800CE-5	675-1009-1-ND	512Mb DDR SDRAM	66-TSOP	11.64	—	—
HYB25D512800CE-5	675-1009-2-ND	512Mb DDR SDRAM	66-TSOP	10980.00/1,500		
HYB25D512800CE-6	675-1008-1-ND	512Mb DDR SDRAM	66-TSOP	5.95	—	—
HYB25D512800CE-6	675-1008-2-ND	512Mb DDR SDRAM	66-TSOP	8925.00/1,500		
HYI25D512160CE-5	675-1022-1-ND	512Mb DDR SDRAM	66-TSOP	6.00	—	—
HYI25D512160CE-5	675-1022-2-ND	512Mb DDR SDRAM	66-TSOP	8999.97/1,500		
DDR2						
HYB18T1G160BF-5	675-1018-1-ND	1Gb DDR2 SDRAM	84-TFBGA	10.20	—	—
HYB18T1G800BF-3S	675-1017-1-ND	1Gb DDR2 SDRAM	68-TFBGA	8.28	—	—
HYB18T1G800BF-3S	675-1017-2-ND	1Gb DDR2 SDRAM	68-TFBGA	16560.00/2,000		
HYB18T512800BF-2.5	675-1013-1-ND	512Mb DDR2 SDRAM	60-TFBGA	6.41	—	—
HYB18T512800BF-2.5	675-1013-2-ND	512Mb DDR2 SDRAM	60-TFBGA	12820.00/2,000		
HYB18T512800BF-3.7	675-1011-1-ND	512Mb DDR2 SDRAM	60-TFBGA	3.00	—	—
HYB18T512800BF-3S	675-1012-1-ND	512Mb DDR2 SDRAM	60-TFBGA	6.41	—	—
HYB18T512800BF-3S	675-1012-2-ND	512Mb DDR2 SDRAM	60-TFBGA	12820.00/2,000		

MEMORY

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
SRAM					
Microchip Technology					
23A640-I/P-ND	64K (8Kx8) Serial SRAM 1.7V	8-PDip	.90	.64	.62
23A640-I/SN-ND	64K (8Kx8) Serial SRAM 1.7V	8-SOIC	.86	.62	.60
23A640-I/ST-ND	64K (8Kx8) Serial SRAM 1.7V	8-TSSOP	.92	.66	.64
23K640-I/P-ND	64K (8Kx8) Serial SRAM 2.7V	8-PDip	.90	.64	.62
23K640-I/SN-ND	64K (8Kx8) Serial SRAM 2.7V	8-SOIC	.86	.62	.60
23K640-I/ST-ND	64K (8Kx8) Serial SRAM 2.7V	8-TSSOP	.92	.66	.64
23A256-I/P-ND	256K (32Kx8) Serial SRAM 1.7V	8-PDip	1.66	1.18	1.14
23A256-I/SN-ND	256K (32Kx8) Serial SRAM 1.7V	8-SOIC	1.62	1.16	1.12
23A256-I/ST-ND	256K (32Kx8) Serial SRAM 1.7V	8-TSSOP	1.68	1.20	1.16
23K256-I/P-ND	256K (32Kx8) Serial SRAM 2.7V	8-PDip	1.66	1.18	1.14
23K256-I/SN-ND	256K (32Kx8) Serial SRAM 2.7V	8-SOIC	1.62	1.16	1.12
23K256-I/ST-ND	256K (32Kx8) Serial SRAM 2.7V	8-TSSOP	1.68	1.20	1.16
Toshiba					
TC55VEM416AXGN55-ND	16M-Bit SRAM (1M x 16)	48-BGA	16.50	—	15.40
Serial EEPROMs					
Microchip Technology					
AC812001-ND	PICSEE™ Introduction Design Kit	—	330.00	—	—
SEEPROM1-KIT-ND	Digi-Key® Low-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM2-KIT-ND	Digi-Key® Mid-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM3-KIT-ND	Digi-Key® High-Density Serial EEPROM Kit	—	19.95	—	—
SEEPROM4-KIT-ND	Digi-Key® Combo-Density Serial EEPROM Kit	—	29.95	—	—
UNI/O® Wire Interface — RoHS Compliant					
11AA010-I/MS-ND	128x8 Serial EEPROM 1.8V	8-MSOP	.48	.34	.33
11AA010-I/P-ND	128x8 Serial EEPROM 1.8V	8-PDip	.44	.32	.31
11AA010-I/SN-ND	128x8 Serial EEPROM 1.8V	8-SOIC	.42	.30	.29
11AA010T-I/MNYCT-ND	128x8 Serial EEPROM 1.8V	8-TDFN	.54	.38	.37
11AA010T-I/MNYTR-ND	128x8 Serial EEPROM 1.8V	8-TDFN	1155.00/3,300		
11AA010T-I/TTCT-ND	128x8 Serial EEPROM 1.8V	SOT-23-3	.45	.28	.27
11AA010T-I/TTTR-ND	128x8 Serial EEPROM 1.8V	SOT-23-3	780.00/3,000		
11AA02E48-I/SN-ND	256x8 Serial EEPROM 1.8V	8-SOIC	.48	.34	.33
11AA02E48T-I/TTCT-ND	256x8 Serial EEPROM 1.8V	SOT-23-3	.50	.32	.31
11AA02E48T-I/TTTR-ND	256x8 Serial EEPROM 1.8V	SOT-23-3	900.00/3,000		
11AA020-I/P-ND	256x8 Serial EEPROM 1.8V	8-Dip	.48	.34	.33
11AA020-I/SN-ND	256x8 Serial EEPROM 1.8V	8-SOIC	.44	.32	.31
11AA020T-I/MNYCT-ND	256x8 Serial EEPROM 1.8V	8-TDFN	.56	.40	.39
11AA020T-I/MNYTR-ND	256x8 Serial EEPROM 1.8V	8-TDFN	1221.00/3,300		
11AA020T-I/TTCT-ND	256x8 Serial EEPROM 1.8V	SOT-23-3	.47	.30	.29
11AA020T-I/TTTR-ND	256x8 Serial EEPROM 1.8V	SOT-23-3	840.00/3,000		
11LC010-I/MS-ND	128x8 Serial EEPROM 2.5V	8-MSOP	.48	.34	.33
11LC010-I/P-ND	128x8 Serial EEPROM 2.5V	8-PDip	.44	.32	.31
11LC010-I/SN-ND	128x8 Serial EEPROM 2.5V	8-SOIC	.42	.30	.29
11LC010T-I/MNYCT-ND	128x8 Serial EEPROM 2.5V	8-TDFN	.54	.38	.37
11LC010T-I/MNYTR-ND	128x8 Serial EEPROM 2.5V	8-TDFN	1155.00/3,300		
11LC010T-I/TTCT-ND	128x8 Serial EEPROM 2.5V	SOT-23-3	.45	.28	.27
11LC010T-I/TTTR-ND	128x8 Serial EEPROM 2.5V	SOT-23-3	780.00/3,000		
11LC020-I/MS-ND	256x8 Serial EEPROM 2.5V	8-MSOP	.50	.36	.35
11LC020-I/P-ND	256x8 Serial EEPROM 2.5V	8-Dip	.48	.34	.33
11LC020-I/SN-ND	256x8 Serial EEPROM 2.5V	8-SOIC	.44	.32	.31
11LC020T-I/MNYCT-ND	256x8 Serial EEPROM 2.5V	8-TDFN	.56	.40	.39
11LC020T-I/MNYTR-ND	256x8 Serial EEPROM 2.5V	8-TDFN	1221.00/3,300		
11LC020T-I/TTCT-ND	256x8 Serial EEPROM 2.5V	SOT-23-3	.47	.30	.29
11LC020T-I/TTTR-ND	256x8 Serial EEPROM 2.5V	SOT-23-3	840.00/3,000		
11AA040-I/P-ND	512x8 Serial EEPROM 1.8V	8-Dip	.50	.36	.35
11AA040-I/SN-ND	512x8 Serial EEPROM 1.8V	8-SOIC	.48	.34	.33
11AA040T-I/MNYCT-ND	512x8 Serial EEPROM 1.8V	8-TDFN	.65	.42	.41
11AA040T-I/TTCT-ND	512x8 Serial EEPROM 1.8V	SOT-23-3	.50	.32	.31
11AA040T-I/TTTR-ND	512x8 Serial EEPROM 1.8V	SOT-23-3	900.00/3,000		
11LC040-I/MS-ND	512x8 Serial EEPROM 2.5V	8-MSOP	.54	.38	.37
11LC040-I/P-ND	512x8 Serial EEPROM 2.5V	8-Dip	.50	.36	.35
11LC040-I/SN-ND	512x8 Serial EEPROM 2.5V	8-SOIC	.48	.34	.33
11LC040T-I/MNYCT-ND	512x8 Serial EEPROM 2.5V	8-TDFN	.65	.42	.41
11LC040T-I/TTCT-ND	512x8 Serial EEPROM 2.5V	SOT-23-3	.50	.32	.31
11LC040T-I/TTTR-ND	512x8 Serial EEPROM 2.5V	SOT-23-3	900.00/3,000		
11AA080-I/MS-ND	1Kx8 Serial EEPROM 1.8V	8-MSOP	.58	.42	.41
11AA080-I/P-ND	1Kx8 Serial EEPROM 1.8V	8-Dip	.56	.40	.39
11AA080-I/SN-ND	1Kx8 Serial EEPROM 1.8V	8-SOIC	.54	.38	.37
11AA080T-I/TTCT-ND	1Kx8 Serial EEPROM 1.8V	SOT-23-3	.56	.36	.35
11AA080T-I/TTTR-ND	1Kx8 Serial EEPROM 1.8V	SOT-23-3	990.00/3,000		
11LC080-I/MS-ND	1Kx8 Serial EEPROM 2.5V	8-MSOP	.58	.42	.41
11LC080-I/P-ND	1Kx8 Serial EEPROM 2.5V	8-Dip	.56	.40	.39
11LC080-I/SN-ND	1Kx8 Serial EEPROM 2.5V	8-SOIC	.54	.38	.37
11LC080T-I/MNYCT-ND	1Kx8 Serial EEPROM 2.5V	8-TDFN	.72	.46	.45

MEMORY

(Cont.)

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
11LC080T-I/TTCT-ND	1Kx8 Serial EEPROM 2.5V	SOT-23-3	.56	.36	.35
11LC080T-I/TTTR-ND	1Kx8 Serial EEPROM 2.5V	SOT-23-3	990.00/3,000		
11AA160-I/P-ND	2Kx8 Serial EEPROM 1.8V	8-Dip	.62	.44	.43
11AA160-I/SN-ND	2Kx8 Serial EEPROM 1.8V	8-SOIC	.58	.42	.41
11AA160T-I/TTCT-ND	2Kx8 Serial EEPROM 1.8V	SOT-23-3	.63	.40	.39
11AA160T-I/TTTR-ND	2Kx8 Serial EEPROM 1.8V	SOT-23-3	1110.00/3,000		
11LC160-I/P-ND	2Kx8 Serial EEPROM 2.5V	8-Dip	.62	.44	.43
11LC160-I/SN-ND	2Kx8 Serial EEPROM 2.5V	8-SOIC	.58	.42	.41
11LC160T-I/TTCT-ND	2Kx8 Serial EEPROM 2.5V	SOT-23	.63	.40	.39
11LC160T-I/TTTR-ND	2Kx8 Serial EEPROM 2.5V	SOT-23	1110.00/3,000		
2 Wire Interface					
24AA00-I/P-ND	16x8 I^{2}C Serial EEPROM 1.7V	8-Dip	.30	.22	.21
24AA00-I/SN-ND	16x8 I^{2}C Serial EEPROM 1.7V	8-SOIC	.28	.21	.20
24AA00-I/ST-ND	16x8 I^{2}C Serial EEPROM 1.7V	8-TSSOP	.34	.24	.23
24AA00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM 1.7V	SOT-23-5	.32	.21	.20
24AA00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM 1.7V	SOT-23-5	570.00/3,000		
24LC00/P-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-Dip	.30	.22	.21
24LC00/SN-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-SOIC	.28	.21	.20
24LC00-I/P-ND	16x8 I^{2}C Serial EEPROM, 2.5V	8-Dip	.30	.22	.21
24LC00-I/SN-ND	16x8 I^{2}C Serial EEPROM, 2.5V	8-SOIC	.28	.21	.20
24LC00-I/ST-ND	16x8 I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.34	.24	.23
24LC00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, 2.5V	8-DFN	.45	.28	.27
24LC00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.32	.21	.20
24LC00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	570.00/3,000		
24C00/P-ND	16x8 I^{2}C Serial EEPROM 5V	8-Dip	.30	.22	.21
24C00-I/P-ND	16x8 I^{2}C Serial EEPROM, 5V	8-Dip	.30	.22	.21
24C00-I/SN-ND	16x8 I^{2}C Serial EEPROM, 5V	8-SOIC	.28	.21	.20
24C00-I/ST-ND	16x8 I^{2}C Serial EEPROM, 5V	8-TSSOP	.34	.24	.23
24C00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, 5V	8-DFN	.45	.28	.27
24C00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, 5V	SOT-23-5	.32	.21	.20
24C00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, 5V	SOT-23-5	570.00/3,000		
24VL014/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-MSOP	.62	.44	.43
24VL014/P-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-Dip	.58	.42	.41
24VL014/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.56	.40	.39
24VL014/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TSSOP	.62	.44	.43
24VL014H/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-MSOP	.62	.44	.43
24VL014H/P-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-Dip	.58	.42	.41
24VL014H/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.56	.40	.39
24VL014H/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TSSOP	.62	.44	.43
24VL014T/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	.68	.48	.46
24VL014T/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	1452.00/3,300		
24VL014T/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	SOT-23-6	.56	.40	.39
24VL014T/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	SOT-23-6	1110.00/3,000		
24VL014T/SNCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.56	.40	.39
24VL014T/SNTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	1221.00/3,300		
24VL014HT/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	.77	.48	.46
24VL014HT/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	1452.00/3,300		
24VL014HT/SNCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.56	.40	.39
24VL014HT/SNTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	1221.00/3,300		
24AA01-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.34	.24	.23
24AA01-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	8-Dip	.30	.22	.21
24AA01-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.28	.21	.20
24AA01-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.34	.24	.23
24AA01H-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-MSOP	.34	.24	.23
24AA01H-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-Dip	.30	.22	.21
24AA01H-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-SOIC	.28	.21	.20
24AA01H-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TSSOP	.34	.24	.23
24AA01HT-I/LTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	.30	.22	.21
24AA01HT-I/LTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	600.00/3,000		
24AA01HT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.40	.28	.27
24AA01HT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	858.00/3,300		
24AA01T-I/LTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	.30	.22	.21
24AA01T-I/LTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	600.00/3,000		
24AA01T-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.40	.28	.27
24AA01T-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	858.00/3,300		
24AA01T-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	SOT-23-5	.32	.21	.20
24AA01T-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V	SOT-23-5	570.00/3,000		
24AA014H-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM 1.7V*	8-MSOP	.42	.30	.29
24AA014H-I/P-ND	1K (128x8) I^{2}C Serial EEPROM 1.7V*	8-Dip	.40	.28	.27
24AA014H-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM 1.7V*	8-SOIC	.36	.26	.25
24AA014H-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM 1.7V*	8-TSSOP	.42	.30	.29
24AA014HT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.48	.34	.33
24AA014HT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1023.00/3,300		
24AA014-I/MC-ND	1K (128x8) I^{2}C Serial EEPROM, 1.8V*	8-DFN	.48	.34	.33
24AA014T-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.8V*	8-TDFN	.48	.34	.33
24AA014T-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.8V*	8-TDFN	1023.00/3300		
24AA014T-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 1.8V*	SOT-23-6	.36	.26	.25
24AA014T-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 1.8V*	SOT-23-6	720.00/3,000		
24LC01B/P-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.30	.22	.21
24LC01B/SN-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.28	.21	.20
24LC01B-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.34	.24	.23
24LC01B-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.30	.22	.21
24LC01B-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.28	.21	.20
24LC01B-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.34	.24	.23
24LC01BT-I/LTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	.34	.22	.21
24LC01BT-I/LTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	600.00/3,000		
24LC01BT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.40	.28	.27
24LC01BT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	858.00/3,300		
24LC01BT-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.32	.21	.20
24LC01BT-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	SOT-23-5	570.00/3,000		
24LC01BT-I/SNCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.32	.21	.20
24LC01BT-I/SNTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	627.00/3,300		
24LC01BHT-I/LTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	.30	.22	.21
24LC01BHT-I/LTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	600.00/3,000		
24LC01BHT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.40	.28	.27
24LC01BHT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	858.00/3,300		
24LCS21A-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-SOIC	.54	.38	.37
24LC014-I/MC-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-DFN	.48	.34	.33
24LC014H-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V*	8-MSOP	.42	.30	.29
24LC014H-I/P-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V*	8-Dip	.40	.28	.27
24LC014H-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V*	8-SOIC	.36	.26	.25
24LC014H-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V*	8-TSSOP	.42	.30	.29
24LC014T-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33
24LC014T-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24LC014T-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-6	.36	.26	.25
24LC014T-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-6	720.00/3,000		
24LC014HT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33

* *RoHS Compliant*

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
24LC014HT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24C01C/P-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.40	.28	.27
24C01C/SN-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.36	.26	.25
24C01C-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, 5V	8-MSOP	.42	.30	.29
24C01C-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, 5V	8-Dip	.40	.28	.27
24C01C-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, 5V	8-SOIC	.36	.26	.25
24C01C-I/MC-ND	1K (128x8) I^{2}C Serial EEPROM, 5V*	8-DFN	.48	.34	.33
24C01C-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, 5V	8-TSSOP	.42	.30	.29
24C01CT-I/MNYCT-ND	1K (128x8) I^{2}C Serial EEPROM, 5V*	8-TDFN	.48	.34	.33
24C01CT-I/MNYTR-ND	1K (128x8) I^{2}C Serial EEPROM, 5V*	8-TDFN	1023.00/3,300		
24C01CT-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, 5V*	SOT-23-6	.36	.26	.25
24C01CT-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, 5V*	SOT-23-6	720.00/3,000		
24VL024/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-MSOP	.68	.48	.46
24VL024/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-Dip	.64	.46	.45
24VL024/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.62	.44	.43
24VL024/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TSSOP	.68	.48	.46
24VL024H/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-MSOP	.68	.48	.46
24VL024H/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-Dip	.64	.46	.45
24VL024H/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.62	.44	.43
24VL024H/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TSSOP	.68	.48	.46
24VL024HT/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	.81	.52	.50
24VL024HT/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	1584.00/3,300		
24VL024HT/SNCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.62	.44	.43
24VL024HT/SNTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	1353.00/3,300		
24VL024T/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	.81	.52	.50
24VL024T/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	1584.00/3,300		
24VL024T/SNCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.62	.44	.43
24VL024T/SNTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	1353.00/3,300		
24VL025/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-MSOP	.68	.48	.46
24VL025/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-Dip	.64	.46	.45
24VL025/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-SOIC	.62	.44	.43
24VL025/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TSSOP	.68	.48	.46
24VL025T/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	.72	.52	.50
24VL025T/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	8-TDFN	1584.00/3,300		
24VL025T/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	SOT-23-6	.62	.44	.43
24VL025T/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.5V*	SOT-23-6	1230.00/3,000		
34VL02/MS-ND	2K (256x8) I^{2}C Serial EEPROM 1.5V*	8-MSOP	.54	.38	.37
34VL02/SN-ND	2K (256x8) I^{2}C Serial EEPROM 1.5V*	8-SOIC	.48	.34	.33
34VL02/ST-ND	2K (256x8) I^{2}C Serial EEPROM 1.5V*	8-TSSOP	.54	.38	.37
24AA02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.36	.26	.25
24AA02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	8-Dip	.34	.24	.23
24AA02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.30	.22	.21
24AA02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.36	.26	.25
24AA02E48-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-SOIC	.34	.24	.23
24AA02E48T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	.38	.24	.23
24AA02E48T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	660.00/3,000		
24AA02H-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-MSOP	.36	.26	.25
24AA02H-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-Dip	.34	.24	.23
24AA02H-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-SOIC	.30	.22	.21
24AA02H-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TSSOP	.36	.26	.25
24AA02T-I/LTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	.38	.24	.23
24AA02T-I/LTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	660.00/3,000		
24AA02T-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.42	.30	.29
24AA02T-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	924.00/3,300		
24AA02T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	SOT-23-5	.34	.22	.21
24AA02T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	SOT-23-5	600.00/3,000		
24AA02HT-I/LTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	.34	.24	.23
24AA02HT-I/LTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SC70-5	660.00/3,000		
24AA02HT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.42	.30	.29
24AA02HT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	924.00/3,300		
24AA024H-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM 1.7V*	8-MSOP	.42	.30	.29
24AA024H-I/P-ND	2K (256x8) I^{2}C Serial EEPROM 1.7V*	8-Dip	.40	.28	.27
24AA024H-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM 1.7V*	8-SOIC	.36	.26	.25
24AA024H-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM 1.7V*	8-TSSOP	.42	.30	.29
24AA024HT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.48	.34	.33
24AA024HT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1023.00/3,300		
24AA025-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-MSOP	.42	.30	.29
24AA025T-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V	8-DFN	.54	.34	.33
24AA025T-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.48	.34	.33
24AA025T-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1023.00/3,300		
24AA025T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-6	.36	.26	.25
24AA025T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-6	720.00/3,000		
24AA52-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.8V* ***NEW!***	8-SOIC	.44	.32	.31
34AA02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-MSOP	.36	.26	.25
34AA02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-Dip	.34	.24	.23
34AA02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-SOIC	.30	.22	.21
34AA02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TSSOP	.36	.26	.25
34AA02T-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.42	.30	.29
34AA02T-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	924.00/3,300		
34AA02T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-6	.34	.22	.21
34AA02T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-6	600.00/3,000		
34LC02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 2.2V*	8-MSOP	.36	.26	.25
34LC02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 2.2V*	8-Dip	.34	.24	.23
34LC02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 2.2V*	8-SOIC	.30	.22	.21
34LC02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 2.2V*	8-TSSOP	.36	.26	.25
34LC02T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.2V*	SOT-23-6	.34	.22	.21
24LC02B/P-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.34	.24	.23
24LC02B/SN-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.30	.22	.21
24LC02B/ST-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.36	.26	.25
24LC02B-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.36	.26	.25
24LC02B-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.34	.24	.23
24LC02B-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.30	.22	.21
24LC02B-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.36	.26	.25
24LC02BT-I/LTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	.38	.24	.23
24LC02BT-I/LTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	660.00/3,000		
24LC02BT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-DFN	.47	.30	.29
24LC02BT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	8-DFN	924.00/3,300		
24LC02BT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.42	.30	.29
24LC02BT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	924.00/3,300		
24LC02BT-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.34	.22	.21
24LC02BT-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V	SOT-23-5	600.00/3,000		
24LC02BHT-I/LTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	.34	.24	.23
24LC02BHT-I/LTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SC70-5	660.00/3,000		
24LC02BHT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.42	.30	.29
24LC02BHT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	924.00/3,300		
24LC024H-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V*	8-MSOP	.42	.30	.29
24LC024H-I/P-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V*	8-Dip	.40	.28	.27
24LC024H-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V*	8-SOIC	.36	.26	.25
24LC024H-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V*	8-TSSOP	.42	.30	.29
24LC024HT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33
24LC024HT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24LC025-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-MSOP	.42	.30	.29
24LC025T-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33
24LC025T-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24LC025T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-6	.36	.26	.25
24LC025T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-6	720.00/3,000		
24C02C/P-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.40	.28	.27
24C02C/SN-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.36	.26	.25
24C02C-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8-MSOP	.42	.30	.29
24C02C-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8Dip	.40	.28	.27
24C02C-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8-SOIC	.36	.26	.25
24C02C-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8-TSSOP	.42	.30	.29
24C02CT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8-DFN	.54	.34	.33
24C02CT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, 5V	8-DFN	1023.00/3,300		
24C02CT-I/MNYCT-ND	2K (256x8) I^{2}C Serial EEPROM, 5V*	8-TDFN	.48	.34	.33
24C02CT-I/MNYTR-ND	2K (256x8) I^{2}C Serial EEPROM, 5V*	8-TDFN	1023.00/3,300		
24AA04-I/MC-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V*	8-DFN	.44	.32	.31
24AA04-I/MS-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V	8-MSOP	.40	.28	.27
24AA04-I/P-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V	8-Dip	.36	.26	.25
24AA04-I/SN-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V	8-SOIC	.34	.24	.23
24AA04T-I/MNYCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.44	.32	.31
24AA04T-I/MNYTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	990.00/3,300		
24AA04T-I/OTCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	.38	.24	.23
24AA04T-I/OTTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	660.00/3,000		
24AA04HT-I/MNYCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.44	.32	.31
24AA04HT-I/MNYTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	990.00/3,300		
24LC04B/P-ND	4K (256x8)x2 I^{2}C Serial EEPROM 2.5V	8-Dip	.36	.26	.25
24LC04B/SN-ND	4K (256x8)x2 I^{2}C Serial EEPROM 2.5V	8-SOIC	.34	.24	.23
24LC04B/ST-ND	4K (256x8)x2 I^{2}C Serial EEPROM 2.5V	8-TSSOP	.40	.28	.27
24LC04B-I/MC-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V*	8-DFN	.44	.32	.31
24LC04B-I/P-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-Dip	.36	.26	.25
24LC04B-I/SN-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-SOIC	.34	.24	.23
24LC04B-I/ST-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.40	.28	.27
24LC04B-I/MS-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-MSOP	.40	.28	.27
24LC04BT-I/MCCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-DFN	.50	.32	.31
24LC04BT-I/MCTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	8-DFN	990.00/3,300		
24LC04BT-I/MNYCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.44	.32	.31
24LC04BT-I/MNYTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	990.00/3,300		
24LC04BT-I/OTCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.38	.24	.23
24LC04BT-I/OTTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	660.00/3,000		
24LC04BHT-I/MNYCT-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.44	.32	.31
24LC04BHT-I/MNYTR-ND	4K (256x8)x2 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	990.00/3,300		
24AA08-I/MS-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	8-MSOP	.42	.30	.29
24AA08-I/P-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	8-Dip	.40	.28	.27
24AA08-I/SN-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	8-SOIC	.36	.26	.25
24AA08-I/ST-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.42	.30	.29
24AA08T-I/MNYCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.48	.34	.33
24AA08T-I/MNYTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1023.00/3,300		
24AA08T-I/OTCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	.41	.26	.25
24AA08T-I/OTTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	720.00/3,000		
24AA08HT-I/MNYCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.48	.34	.33
24AA08HT-I/MNYTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1023.00/3,300		
24LC08B/P-ND	8K (256x8)x4 I^{2}C Serial EEPROM 2.5V	8-Dip	.40	.28	.27
24LC08B/SN-ND	8K (256x8)x4 I^{2}C Serial EEPROM 2.5V	8-SOIC	.36	.26	.25
24LC08B/ST-ND	8K (256x8)x4 I^{2}C Serial EEPROM 2.5V	8-TSSOP	.42	.30	.29
24LC08B-I/MS-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	8-MSOP	.42	.30	.29
24LC08B-I/P-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	8-Dip	.40	.28	.27
24LC08B-I/SN-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	8-SOIC	.36	.26	.25
24LC08B-I/ST-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.42	.30	.29
24LC08BT-I/MCCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	8-DFN	.54	.34	.33
24LC08BT-I/MNYCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33
24LC08BT-I/MNYTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24LC08BT-I/OTCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.41	.26	.25
24LC08BT-I/OTTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	720.00/3,000		
24LC08BHT-I/MNYCT-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.48	.34	.33
24LC08BHT-I/MNYTR-ND	8K (256x8)x4 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1023.00/3,300		
24AA16-I/MC-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-DFN	.50	.36	.35
24AA16-I/MS-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-MSOP	.44	.32	.31
24AA16-I/P-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-Dip	.42	.30	.29
24AA16-I/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-SOIC	.40	.28	.27
24AA16-I/ST-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.44	.32	.31
24AA16H-I/MS-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-MSOP	.44	.32	.31
24AA16H-I/P-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-Dip	.42	.30	.29
24AA16H-I/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-SOIC	.40	.28	.27
24AA16H-I/ST-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-TSSOP	.44	.32	.31
24AA16T-I/MCCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-DFN	.56	.36	.35
24AA16T-I/MCTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	8-DFN	1089.00/3,300		
24AA16T-I/MNYCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.50	.36	.35
24AA16T-I/MNYTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1089.00/3,300		
24AA16T-I/OTCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	.45	.28	.27
24AA16T-I/OTTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V	SOT-23-5	780.00/3,000		
24AA16HT-I/MNYCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.56	.36	.35
24AA16HT-I/MNYTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1089.00/3,300		
24AA16HT-I/OTCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	.45	.28	.27
24AA16HT-I/OTTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	780.00/3,000		
24LC16B/P-ND	16K (256x8)x8 I^{2}C Serial EEPROM 2.5V	8-Dip	.42	.30	.29
24LC16B/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM 2.5V	8-SOIC	.40	.28	.27
24LC16B-E/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM 2.5V	8-SOIC	.48	.34	.33
24LC16B-I/MS-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-MSOP	.44	.32	.31
24LC16B-I/P-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-Dip	.42	.30	.29
24LC16B-I/ST-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.44	.32	.31
24LC16B-I/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-SOIC	.40	.28	.27
24LC16B-M/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM 2.5V* ***NEW!***	8-SOIC	9.76	7.00	6.74
24LC16BH-I/MS-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-MSOP	.44	.32	.31
24LC16BH-I/P-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-Dip	.42	.30	.29
24LC16BH-I/SN-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-SOIC	.40	.28	.27
24LC16BH-I/ST-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TSSOP	.44	.32	.31
24LC16BT-I/MCCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-DFN	.56	.36	.35
24LC16BT-I/MCTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	8-DFN	1089.00/3,300		

* *RoHS Compliant*

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(Continued)

Digi-Reel® (Cont.)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
24LC16BT-I/MNYCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.50	.36	.35
24LC16BT-I/MNYTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1089.00/3,300		
24LC16BT-I/OTCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	.45	.28	.27
24LC16BT-I/OTTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V	SOT-23-5	780.00/3,000		
24LC16BT-I/SNTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-SOIC	858.00/3,300		
24LC16BT-I/STTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TSSOP	750.00/2,500		
24LC16BHT-I/MNYCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.50	.36	.35
24LC16BHT-I/MNYTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1089.00/3,300		
24LC16BHT-I/OTCT-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	.40	.28	.27
24LC16BHT-I/OTTR-ND	16K (256x8)x8 I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	780.00/3,000		
24AA32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.54	.38	.37
24AA32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	.50	.36	.35
24AA32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.50	.36	.35
24AA32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.48	.34	.33
24AA32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.54	.38	.37
24AA32AF-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-MSOP	.54	.38	.37
24AA32AF-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-PDIP	.50	.36	.35
24AA32AF-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-SOIC	.48	.34	.33
24AA32AF-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TSSOP	.54	.38	.37
24AA32AFT-I/MNYCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TDFN	.65	.42	.41
24AA32AFT-I/MNYTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TDFN	1287.00/3,300		
24AA32AFT-I/OTCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	SOT-23-5	.54	.34	.33
24AA32AFT-I/OTTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	SOT-23-5	930.00/3,000		
24AA32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	.65	.42	.41
24AA32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	1287.00/3,300		
24AA32AT-I/MNYCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.58	.42	.41
24AA32AT-I/MNYTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1287.00/3,300		
24AA32AT-I/OTCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	.54	.34	.33
24AA32AT-I/OTTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	930.00/3,000		
24LC32A/P-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	.50	.36	.35
24LC32A/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.48	.34	.33
24LC32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.54	.38	.37
24LC32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.50	.36	.35
24LC32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.50	.36	.35
24LC32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.48	.34	.33
24LC32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.54	.38	.37
24LC32AF-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-MSOP	.54	.38	.37
24LC32AF-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-PDIP	.50	.36	.35
24LC32AF-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-SOIC	.48	.34	.33
24LC32AF-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TSSOP	.54	.38	.37
24LC32AFT-I/MNYCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TDFN	.65	.42	.41
24LC32AFT-I/MNYTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TDFN	1287.00/3,300		
24LC32AFT-I/OTCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	SOT-23-5	.54	.34	.33
24LC32AFT-I/OTTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	SOT-23-5	930.00/3,000		
24LC32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	.65	.42	.41
24LC32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	1287.00/3,300		
24LC32AT-I/MNYCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.58	.42	.41
24LC32AT-I/MNYTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1287.00/3,300		
24LC32AT-I/OTCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	.54	.34	.33
24LC32AT-I/OTTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	930.00/3,000		
24AA64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.58	.42	.41
24AA64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	.56	.40	.39
24AA64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.56	.40	.39
24AA64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.54	.38	.37
24AA64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.58	.42	.41
24AA64F-I/MS-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-MSOP	.58	.42	.41
24AA64F-I/P-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-PDIP	.56	.40	.39
24AA64F-I/SN-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-SOIC	.54	.38	.37
24AA64F-I/ST-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TSSOP	.58	.42	.41
24AA64FT-I/MNYCT-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TDFN	.72	.46	.45
24AA64FT-I/MNYTR-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	8-TDFN	1419.00/3,300		
24AA64FT-I/OTCT-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	SOT-23-5	.61	.38	.37
24AA64FT-I/OTTR-ND	64K (4Kx8) I^{2}C Serial EEPROM, 1.7V* ***NEW!***	SOT-23-5	1050.00/3,000		
24AA64T-I/MNYCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	.72	.46	.45
24AA64T-I/MNYTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V*	8-TDFN	1419.00/3,300		
24AA64T-I/OTCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	.61	.38	.37
24AA64T-I/OTTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V*	SOT-23-5	1050.00/3,000		
24FC64-I/MC-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V*	8-DFN	.82	.62	.60
24FC64-I/MF-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	1.24	.88	.85
24FC64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.82	.58	.56
24FC64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-DIP	.78	.56	.54
24FC64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.78	.56	.54
24FC64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.76	.54	.52
24FC64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.82	.58	.56
24LC64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.58	.42	.41
24LC64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.56	.40	.39
24LC64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.56	.40	.39
24LC64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.54	.38	.37
24LC64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.58	.42	.41
24LC64F-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-MSOP	.58	.42	.41
24LC64F-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-PDIP	.56	.40	.39
24LC64F-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-SOIC	.54	.38	.37
24LC64F-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TSSOP	.58	.42	.41
24LC64FT-I/MNYCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TDFN	.72	.46	.45
24LC64FT-I/MNYTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TDFN	1419.00/3,300		
24LC64FT-I/OTCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	SOT23-5	.61	.38	.37
24LC64FT-I/OTTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	SOT23-5	1050.00/3,000		
24LC64T-I/MNYCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	.72	.46	.45
24LC64T-I/MNYTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V*	8-TDFN	1419.00/3,300		
24LC64T-I/OTCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	.61	.38	.37
24LC64T-I/OTTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V*	SOT-23-5	1050.00/3,000		
24LC64T-I/SNTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, 2.5V*	8-SOIC	1155.00/3,300		
24AA65/P-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 1.7V	8-Dip	2.24	1.60	1.54
24AA65/SM-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 1.7V	8-SOIC	2.24	1.60	1.54
24LC65/P-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 2.5V	8-Dip	2.24	1.60	1.54
24LC65/SM-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 2.5V	8-SOIC	2.24	1.60	1.54
24LC65-I/P-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM, Ind. Temp 2.5V	8-Dip	2.24	1.60	1.54
24LC65-I/SM-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM, Ind. Temp 2.5V	8-SOIC	2.24	1.60	1.54
24C65/P-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 5V	8-Dip	2.24	1.60	1.54
24C65/SM-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 5V	8-SOIC	2.24	1.60	1.54
24C65-I/P-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 5V	8-Dip	2.24	1.60	1.54
24C65-I/SM-ND	64K (8Kx8) I^{2}C Smart Serial EEPROM 5V	8-SOIC	2.24	1.60	1.54
24AA128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	1.26	.90	.87
24AA128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	.84	.60	.58
24AA128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	.82	.58	.56
24AA128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.82	.58	.56
24AA128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	.78	.56	.54
24AA128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	.84	.60	.58
24LC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	1.26	.90	.87
24LC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.84	.60	.58
24LC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.82	.58	.56
24LC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.82	.58	.56
24LC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.78	.56	.54
24LC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.84	.60	.58
24FC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	1.26	.90	.87
24FC128-I/MNY-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TDFN	1.14	.82	.79
24FC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	.84	.60	.58
24FC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	.82	.58	.56
24FC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.82	.58	.56
24FC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	.78	.56	.54
24FC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	.84	.60	.58
24AA256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	1.62	1.16	1.12
24AA256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	1.20	.86	.83
24AA256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	1.18	.84	.81
24AA256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	1.18	.84	.81
24AA256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	1.14	.82	.79
24AA256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	1.20	.86	.83
24FC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-MSOP	1.20	.86	.83
24FC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	1.18	.84	.81
24FC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	1.18	.84	.81
24FC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	1.14	.82	.79
24FC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, 1.7V	8-TSSOP	1.20	.86	.83
24LC256-E/P-ND	256K (32Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	1.26	.90	.87
24LC256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	1.62	1.16	1.12
24LC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	1.20	.86	.83
24LC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	1.18	.84	.81
24LC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	1.18	.84	.81
24LC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	1.14	.82	.79
24LC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-TSSOP	1.20	.86	.83
24LC256T-I/MSCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	1.35	.86	.83
24LC256T-I/MSTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-MSOP	2000.00/2,500		
24LC256T-I/SNCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	1.28	.82	.79
24LC256T-I/SNTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	2507.99/3,300		
24AA512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	2.40	1.72	1.66
24AA512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	1.96	1.40	1.35
24AA512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIJ	1.96	1.40	1.35
24AA512-I/ST-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.8V* ***NEW!***	8-TSSOP	1.98	1.42	1.37
24AA512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	14-TSSOP	2.22	1.58	1.52
24AA512T-I/MFCT-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	2.70	1.72	1.66
24AA512T-I/MFTR-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	5247.00/3,300		
24FC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-DFN	2.40	1.72	1.66
24FC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	1.96	1.40	1.35
24FC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIJ	1.96	1.40	1.35
24FC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	4.00	2.86	2.76
24FC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	4.00	2.86	2.76
24LC256-E/SN-ND	256K (32Kx8) I2C Serial EEPROM, 2.5V* ***NEW!***	8-SOIC	1.24	.88	.85
24LC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	8-DFN	2.40	1.72	1.66
24LC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	1.96	1.40	1.35
24LC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	1.96	1.40	1.35
24LC512-I/ST-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V* ***NEW!***	8-TSSOP	1.98	1.42	1.37
24LC512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	14-TSSOP	2.22	1.58	1.52
24LC512T-I/SMTR-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V*	8-SOIJ	2730.00/2,100		
24LC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	3.94	2.82	2.72
24LC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	3.94	2.82	2.72
24AA1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 1.7V	8-Dip	4.32	3.08	2.97
24AA1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 1.7V	8-SOIC	4.32	3.08	2.97
24FC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	4.32	3.08	2.97
24FC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	4.32	3.08	2.97
24FC1025T-I/SMCT-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	4.86	3.08	2.97
24FC1025T-I/SMTR-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIC	5984.98/2,100		
24LC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-Dip	4.32	3.08	2.97
24LC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, 2.5V	8-SOIJ	4.32	3.08	2.97
24LC21/P-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-Dip	.56	.40	.39
24LC21/SN-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-SOIC	.54	.38	.37
	SPI Serial EEPROMS				
25AA010A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-MSOP	.56	.40	.39
25AA010A-I/P-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-Dip	.54	.38	.37
25AA010A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-SOIC	.50	.36	.35
25AA010A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-TSSOP	.56	.40	.39
25AA010AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-DFN	.70	.44	.43
25AA010AT-I/MCTR-ND	1K (128x8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-DFN	1353.00/3,300		
25AA010AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM 1.8V	SOT-23-6	.56	.36	.35
25AA010AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM 1.8V	SOT-23-6	990.00/3,000		
25LC010A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-MSOP	.56	.40	.39
25LC010A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-SOIC	.50	.36	.35
25LC010A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.56	.40	.39
25LC010AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.56	.36	.35
25LC010AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM 2.5V	SOT-23-6	990.00/3,000		
25AA02E48-I/SN-ND	2K (256x8) CMOS Serial EEPROM, 1.8V*	8-SOIC	.56	.40	.39
25AA02E48T-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, 1.8V*	SOT-23-6	.63	.40	.39
25AA02E48T-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, 1.8V*	SOT-23-6	1110.00/3,000		
25AA020A-I/MS-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-MSOP	.58	.42	.41
25AA020A-I/P-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-Dip	.56	.40	.39
25AA020A-I/SN-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-SOIC	.54	.38	.37
25AA020A-I/ST-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-TSSOP	.58	.42	.41
25AA020AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM 1.8V	SOT-23-6	.61	.38	.37
25AA020AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM 1.8V	SOT-23-6	1050.00/3,000		
25LC020A-I/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.54	.38	.37
25LC020A-I/ST-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.58	.42	.41
25LC020AT-E/OTCT-ND	2K (256x8) CMOS Serial EEPROM 2.5V*	SOT-23-6	.70	.44	.43
25LC020AT-E/OTTR-ND	2K (256x8) CMOS Serial EEPROM 2.5V*	SOT-23-6	1230.00/3,000		

* RoHS Compliant

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(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	25
25AA040-I/P-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-Dip	.70	.50	.48
25AA040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-SOIC	.68	.48	.46
25AA040A-I/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.58	.42	.41
25AA040A-I/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.56	.40	.39
25AA040AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.63	.40	.39
25AA040AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	1110.00/3,000		
25LC040AT-E/OTCT-ND	4K (512x8) CMOS Serial EEPROM 2.5V*	SOT-23-6	.72	.46	.45
25LC040AT-E/OTTR-ND	4K (512x8) CMOS Serial EEPROM 2.5V*	SOT-23-6	1290.00/3,000		
25LC040A-I/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.58	.42	.41
25LC040A-I/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.56	.40	.39
25LC040A-I/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.62	.44	.43
25LC040AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.63	.40	.39
25LC040AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	1110.00/3,000		
25LC040/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.70	.50	.48
25LC040/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.68	.48	.46
25LC040-I/P-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-Dip	.70	.50	.48
25LC040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-SOIC	.68	.48	.46
25LC040X/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.72	.52	.50
25C040/SN-ND	4K (512x8) CMOS Serial EEPROM 5V	8-SOIC	.68	.48	.46
25C040-I/P-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-Dip	.70	.50	.48
25C040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-SOIC	.68	.48	.46
25C040X-I/ST-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-TSSOP	.72	.52	.50
25AA080/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-Dip	1.10	.78	.75
25AA080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-SOIC	1.06	.76	.73
25AA080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	1.10	.78	.75
25AA080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	1.06	.76	.73
25AA080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-MSOP	.76	.52	.50
25AA080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	.72	.50	.48
25AA080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.70	.48	.46
25AA080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.76	.52	.50
25AA080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-MSOP	.76	.52	.50
25AA080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	.72	.50	.48
25AA080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.70	.48	.46
25AA080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	.76	.52	.50
25AA080C-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-MSOP	.76	.52	.50
25AA080C-I/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-PDIP	.72	.50	.48
25AA080C-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-SOIC	.70	.48	.46
25AA080C-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TSSOP	.76	.52	.50
25AA080CT-I/MNYCT-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	.92	.56	.54
25AA080CT-I/MNYTR-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	1716.00/3,300		
25AA080D-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-MSOP	.76	.52	.50
25AA080D-I/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-PDIP	.72	.50	.48
25AA080D-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-SOIC	.70	.48	.46
25AA080D-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TSSOP	.76	.52	.50
25AA080DT-I/MNYCT-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	.92	.56	.54
25AA080DT-I/MNYTR-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	1716.00/3,300		
25LC080/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.10	.78	.75
25LC080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.06	.76	.73
25LC080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	1.10	.78	.75
25LC080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	1.06	.76	.73
25LC080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-MSOP	.76	.52	.50
25LC080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.72	.50	.48
25LC080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.70	.48	.46
25LC080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.76	.52	.50
25LC080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-MSOP	.76	.52	.50
25LC080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.72	.50	.48
25LC080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.70	.48	.46
25LC080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.76	.52	.50
25LC080C-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-MSOP	.76	.52	.50
25LC080C-I/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-PDIP	.72	.50	.48
25LC080C-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-SOIC	.70	.48	.46
25LC080C-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TSSOP	.76	.52	.50
25LC080CT-I/MNYCT-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	.92	.56	.54
25LC080CT-I/MNYTR-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	1716.00/3,300		
25LC080D-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-MSOP	.76	.52	.50
25LC080D-I/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-PDIP	.72	.50	.48
25LC080D-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-SOIC	.70	.48	.46
25LC080D-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TSSOP	.76	.52	.50
25LC080DT-I/MNYCT-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	.92	.56	.54
25LC080DT-I/MNYTR-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	1716.00/3,300		
25C080/P-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-Dip	1.10	.78	.75
25C080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.06	.76	.73
25C080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, 5V	8-Dip	1.10	.78	.75
25C080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, 5V	8-SOIC	1.06	.76	.73
25AA160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	1.10	.78	.75
25AA160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-MSOP	.78	.54	.52
25AA160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	.76	.52	.50
25AA160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.72	.50	.48
25AA160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.78	.54	.52
25AA160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-MSOP	.78	.54	.52
25AA160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	.76	.52	.50
25AA160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.72	.50	.48
25AA160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.78	.54	.52
25AA160C-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-MSOP	.78	.54	.52
25AA160C-I/P-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-PDIP	.76	.52	.50
25AA160C-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-SOIC	.72	.50	.48
25AA160C-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TSSOP	.78	.54	.52
25AA160CT-I/MNYCT-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	.95	.58	.56
25AA160CT-I/MNYTR-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	1781.99/3,300		
25AA160D-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-MSOP	.78	.54	.52
25AA160D-I/P-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-PDIP	.76	.52	.50
25AA160D-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-SOIC	.72	.50	.48
25AA160D-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TSSOP	.78	.54	.52
25AA160DT-I/MNYCT-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	.95	.58	.56
25AA160DT-I/MNYTR-ND	16K (2Kx8) CMOS Serial EEPROM 1.8V* ***NEW!***	8-TDFN	1781.99/3,300		
25LC160/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.12	.80	.77
25LC160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.10	.78	.75
25LC160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	1.12	.80	.77
25LC160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	1.10	.78	.75
25LC160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-MSOP	.78	.54	.52
25LC160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.76	.52	.50
25LC160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.72	.50	.48
25LC160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.78	.54	.52
25LC160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.76	.52	.50
25LC160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.72	.50	.48
25LC160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.78	.54	.52
25LC160C-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-MSOP	.78	.54	.52
25LC160C-I/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-PDIP	.76	.52	.50
25LC160C-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-SOIC	.72	.50	.48
25LC160C-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TSSOP	.78	.54	.52
25LC160CT-I/MNYCT-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	.95	.58	.56
25LC160CT-I/MNYTR-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	1781.99/3,300		
25LC160D-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-MSOP	.78	.54	.52
25LC160D-I/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-PDIP	.76	.52	.50
25LC160D-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-SOIC	.72	.50	.48
25LC160D-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TSSOP	.78	.54	.52
25LC160DT-I/MNYCT-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	.95	.58	.56
25LC160DT-I/MNYTR-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V* ***NEW!***	8-TDFN	1781.99/3,300		
25C160/P-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-Dip	1.12	.80	.77
25C160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.10	.78	.75
25C160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, 5V	8-Dip	1.12	.80	.77
25C160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, 5V	8-SOIC	1.10	.78	.75
25AA320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.82	.62	.60
25AA320A-I/MS-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-MSOP	.84	.58	.56
25AA320A-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-Dip	.82	.56	.54
25AA320A-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-SOIC	.78	.54	.52
25AA320A-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	.84	.58	.56
25AA320AT-I/MNYCT-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-TDFN	.99	.62	.60
25AA320AT-I/MNYTR-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-TDFN	1880.99/3,300		
25AA320AX-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	.84	.58	.56
25AA320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM 1.8V	8-TSSOP	.86	.66	.64
25LC320/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.84	.64	.62
25LC320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.82	.62	.60
25LC320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.84	.64	.62
25LC320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.82	.62	.60
25LC320A-I/MS-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-MSOP	.84	.58	.56
25LC320A-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-Dip	.82	.56	.54
25LC320A-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	.78	.54	.52
25LC320A-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	.84	.58	.56
25LC320AT-I/MNYCT-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-TDFN	.88	.62	.60
25LC320AT-I/MNYTR-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-TDFN	1880.99/3,300		
25LC320AX-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	.84	.58	.56
25LC320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.86	.66	.64
25C320/P-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-Dip	.84	.64	.62
25C320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-SOIC	.82	.62	.60
25C320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, 5V	8-Dip	.84	.64	.62
25C320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, 5V	8-SOIC	.82	.62	.60
25AA640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	.84	.66	.64
25AA640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	.82	.64	.62
25AA640A-I/MS-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-MSOP	.84	.60	.58
25AA640A-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-Dip	.82	.58	.56
25AA640A-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-SOIC	.78	.56	.54
25AA640A-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	.84	.60	.58
25AA640AT-I/MNYCT-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-TDFN	.92	.64	.62
25AA640AT-I/MNYTR-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-TDFN	1947.00/3,300		
25AA640AT-I/MSCT-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-MSOP	.95	.60	.58
25AA640AT-I/MSTR-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-MSOP	1400.00/2,500		
25AA640AX-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	.84	.60	.58
25AA640X-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.86	.68	.66
25LC640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	.84	.66	.64
25LC640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.82	.64	.62
25LC640A-E/MS-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-MSOP	.92	.66	.64
25LC640A-I/MS-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-MSOP	.84	.60	.58
25LC640A-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-Dip	.82	.58	.56
25LC640A-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	.78	.56	.54
25LC640A-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	.84	.60	.58
25LC640A-M/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ext. Temp. 2.5V* ***NEW!***	8-SOIC	14.84	11.13	10.39
25LC640AT-I/MNYCT-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-TDFN	.88	.64	.62
25LC640AT-I/MNYTR-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-TDFN	1947.00/3,300		
25LC640AX-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	.84	.60	.58
25LC640T-I/SNCT-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	.92	.64	.62
25LC640T-I/SNTR-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	1946.99/3,300		
25LC640X-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	.86	.68	.66
25AA128-I/MF-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-DFN	1.74	1.24	1.20
25AA128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-Dip	1.28	.92	.89
25AA128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-SOIC	1.26	.90	.87
25AA128-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	1.32	.94	.91
25AA128T-I/STCT-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	1.49	.94	.91
25AA128T-I/STTR-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	2175.00/2,500		
25AA128X-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, 1.8V*	8-TSSOP	1.32	.94	.91
25LC128-I/MF-ND	128K (16Kx8) CMOS Serial EEPROM, 2.5V*	8-DFN	1.74	1.24	1.20
25LC128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, 2.5V*	8-Dip	1.28	.92	.89
25LC128-I/SM-ND	128K (16Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	1.28	.92	.89
25LC128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	1.26	.90	.87
25LC128-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, 2.5V*	8-TSSOP	1.32	.94	.91
25AA256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, 1.8V	8-DFN	2.18	1.56	1.50
25AA256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	1.74	1.24	1.20
25AA256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, 1.8V	8-SOIJ	1.74	1.24	1.20
25AA256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	1.70	1.22	1.18
25AA256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, 1.8V	8-TSSOP	1.76	1.26	1.22
25LC256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, 2.5V	8-DFN	2.18	1.56	1.50
25LC256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, 2.5V	8-Dip	1.74	1.24	1.20
25LC256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	1.74	1.24	1.20
25LC256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, 2.5V	8-SOIC	1.70	1.22	1.18
25LC256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, 2.5V	8-TSSOP	1.76	1.26	1.22
25AA512-I/MF-ND	512K (64Kx8) CMOS Serial EEPROM, 1.8V*	8-DFN	3.08	2.20	2.12
25AA512-I/P-ND	512K (64Kx8) CMOS Serial EEPROM, 1.8V*	8-Dip	2.64	1.88	1.81
25AA512-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM, 1.8V*	8-SOIC	2.64	1.88	1.81
25AA512-I/SN-ND	512K (64Kx8) CMOS Serial EEPROM, 1.8V*	8-SOIC	2.60	1.86	1.79
25LC512-I/MF-ND	512K (64Kx8) CMOS Serial EEPROM, 2.5V*	8-DFN	3.08	2.20	2.12
25LC512-I/P-ND	512K (64Kx8) CMOS Serial EEPROM, 2.5V*	8-Dip	2.64	1.88	1.81
25LC512-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	2.64	1.88	1.81
25LC512T-I/SNCT-ND	512K (64Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	2.93	1.86	1.79
25LC512T-I/SNTR-ND	512K (64Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	5676.01/3,300		
25AA1024-I/MF-ND	1M (128Kx8) CMOS Serial EEPROM, 1.8V	8-DFN	4.84	3.46	3.33
25AA1024-I/P-ND	1M (128Kx8) CMOS Serial EEPROM, 1.8V	8-Dip	4.40	3.14	3.02
25AA1024-I/SM-ND	1M (128Kx8) CMOS Serial EEPROM, 1.8V	8-SOIC	4.40	3.14	3.02
25LC1024-I/MF-ND	1M (128Kx8) CMOS Serial EEPROM, 2.5V*	8-DFN	4.84	3.46	3.33
25LC1024-I/P-ND	1M (128Kx8) CMOS Serial EEPROM, 2.5V*	8-Dip	4.40	3.14	3.02
25LC1024-I/SM-ND	1M (128Kx8) CMOS Serial EEPROM, 2.5V*	8-SOIC	4.40	3.14	3.02
3 Wire Interface					
93AA46/P-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-Dip	.64	.46	.45
93AA46/SN-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.62	.44	.43

* *RoHS Compliant*

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(Continued)

MEMORY

Digi-Reel® *(Cont.)*

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	25
93AA46-I/SN-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.62	.44	.43
93AA46AT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	.47	.30	.29
93AA46AT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	924.00/3,300		
93AA46AT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	SOT-23-6	.34	.22	.21
93AA46AT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	SOT-23-6	600.00/3,000		
93AA46AX-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.30	.22	.21
93AA46BT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	.47	.30	.29
93AA46BT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	924.00/3,300		
93AA46BT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	SOT-23-6	.34	.22	.21
93AA46BT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	SOT-23-6	600.00/3,000		
93AA46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	.50	.32	.31
93AA46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-DFN	990.00/3,300		
93AA46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-MSOP	.36	.26	.25
93AA46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-Dip	.34	.24	.23
93AA46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.30	.22	.21
93AA46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-TSSOP	.36	.26	.25
93AA46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-Dip	.34	.24	.23
93AA46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.30	.22	.21
93AA46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-TSSOP	.36	.26	.25
93AA46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-MSOP	.40	.28	.27
93AA46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.34	.24	.23
93AA46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 1.8V-5.5V	8-TSSOP	.40	.28	.27
93LC46/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.64	.46	.45
93LC46A/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.34	.24	.23
93LC46A/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.30	.22	.21
93LC46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, 2.5V-5.5V	8-MSOP	.36	.26	.25
93LC46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.62	.44	.43
93LC46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-MSOP	.36	.26	.25
93LC46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-Dip	.34	.24	.23
93LC46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.30	.22	.21
93LC46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-TSSOP	.36	.26	.25
93LC46B/P-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-Dip	.34	.24	.23
93LC46B/SN-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.30	.22	.21
93LC46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	SOT-23-6	.34	.22	.21
93LC46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	SOT-23-6	600.00/3,000		
93LC46BT-I/SNCT-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.34	.22	.21
93LC46BT-I/SNTR-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	660.00/3,300		
93LC46BT-I/STCT-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-TSSOP	.41	.26	.25
93LC46BT-I/STTR-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-TSSOP	600.00/2,500		
93LC46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-MSOP	.40	.28	.27
93LC46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-Dip	.36	.26	.25
93LC46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.34	.24	.23
93LC46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-TSSOP	.40	.28	.27
93LC46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V~5.5V	8-Dip	.34	.24	.23
93LC46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V~5.5V	8-SOIC	.30	.22	.21
93LC46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V~5.5V	8-TSSOP	.36	.26	.25
93LC46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V~5.5V	SOT-23-6	.34	.22	.21
93LC46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V~5.5V	SOT-23-6	600.00/3,000		
93C46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-MSOP	.36	.26	.25
93C46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-Dip	.34	.24	.23
93C46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-SOIC	.30	.22	.21
93C46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-TSSOP	.36	.26	.25
93C46AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-DFN	.47	.30	.29
93C46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	SOT-23-6	.34	.22	.21
93C46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	SOT-23-6	600.00/3,000		
93C46AX-I/SN-ND	1K (128x8) CMOS Serial EEPROM, 4.5V~5.5V	8-SOIC	.30	.22	.21
93C46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-MSOP	.36	.26	.25
93C46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-TSSOP	.36	.26	.25
93C46BT-I/MCCT-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-DFN	.47	.30	.29
93C46BT-I/MCTR-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-DFN	924.00/3,300		
93C46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	SOT-23-6	.34	.22	.21
93C46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	SOT-23-6	600.00/3,000		
93C46BT/SNTR-ND	1K (64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-SOIC	660.00/3,300		
93C46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-MSOP	.40	.28	.27
93C46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-Dip	.36	.26	.25
93C46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-SOIC	.34	.24	.23
93C46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-TSSOP	.40	.28	.27
93C46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-DFN	.50	.32	.31
93C46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, 4.5V~5.5V	8-DFN	990.00/3,300		
93AA56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, 1.8V	8-MSOP	.40	.28	.27
93AA56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, 1.8V	8-Dip	.36	.26	.25
93AA56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, 1.8V	8-SOIC	.34	.24	.23
93AA56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, 1.8V	8-DFN	.50	.32	.31
93AA56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, 1.8V	8-DFN	990.00/3,300		
93AA56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	8-MSOP	.40	.28	.27
93AA56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	8-SOIC	.34	.24	.23
93AA56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	8-TSSOP	.40	.28	.27
93AA56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	8-DFN	.50	.32	.31
93AA56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	8-DFN	990.00/3,300		
93AA56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	SOT-23-6	.38	.24	.23
93AA56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, 1.8V	SOT-23-6	660.00/3,000		
93AA56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-MSOP	.40	.28	.27
93AA56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-Dip	.36	.26	.25
93AA56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-SOIC	.34	.24	.23
93AA56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-TSSOP	.40	.28	.27
93AA56CT-I/MCCT-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-DFN	.50	.32	.31
93AA56CT-I/MCTR-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 1.8V	8-DFN	990.00/3,300		
93AA56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 1.8V	8-SOIC	.70	.50	.48
93LC56/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-Dip	.72	.52	.50
93LC56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.70	.50	.48
93LC56-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-Dip	.72	.52	.50
93LC56-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.70	.50	.48
93LC56A/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.36	.26	.25
93LC56A/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.34	.24	.23
93LC56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, 2.5V	8-MSOP	.40	.28	.27
93LC56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, 2.5V	8-Dip	.36	.26	.25
93LC56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	.38	.24	.23
93LC56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	660.00/3,000		
93LC56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.40	.28	.27
93LC56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-Dip	.36	.26	.25
93LC56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.34	.24	.23
93LC56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-TSSOP	.40	.28	.27
93LC56CT-I/MCCT-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 2.5V	8-DFN	.50	.32	.31
93LC56B/P-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-Dip	.36	.26	.25
93LC56B/SN-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.34	.24	.23
93LC56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.40	.28	.27

MEMORY

Digi-Reel® *(Cont.)*

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	10	25
93LC56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	8-Dip	.36	.26	.25
93LC56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.34	.24	.23
93LC56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	8-TSSOP	.40	.28	.27
93LC56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	SOT-23-6	.38	.24	.23
93LC56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, 2.5V	SOT-23-6	660.00/3,000		
93C56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, 5V	8-Dip	.36	.26	.25
93C56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, 5V	8-SOIC	.34	.24	.23
93C56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, 5V	8-TSSOP	.40	.28	.27
93C56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, 5V	8-DFN	.50	.32	.31
93C56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, 5V	8-DFN	990.00/3,300		
93C56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, 5V	SOT-23-6	.38	.24	.23
93C56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, 5V	SOT-23-6	660.00/3,000		
93C56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, 5V	8-MSOP	.40	.28	.27
93C56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, 5V	8-SOIC	.34	.24	.23
93C56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, 5V	8-TSSOP	.40	.28	.27
93C56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, 5V	8-DFN	.50	.32	.31
93C56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, 5V	8-DFN	990.00/3,300		
93C56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, 5V	SOT-23-6	.38	.24	.23
93C56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 5V	8-MSOP	.40	.28	.27
93C56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 5V	8-Dip	.36	.26	.25
93C56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 5V	8-SOIC	.34	.24	.23
93C56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, 5V	8-TSSOP	.40	.28	.27
93AA66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, 1.8V	8-DFN	.54	.34	.33
93AA66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, 1.8V	8-DFN	1023.00/3,300		
93AA66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-Dip	.72	.52	.50
93AA66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-SOIC	.70	.50	.48
93AA66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-MSOP	.42	.30	.29
93AA66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-Dip	.40	.28	.27
93AA66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-SOIC	.36	.26	.25
93AA66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.42	.30	.29
93AA66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-DFN	.54	.34	.33
93AA66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-DFN	1023.00/3,300		
93AA66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	.41	.26	.25
93AA66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	720.00/3,000		
93AA66B-I/MS-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-MSOP	.42	.30	.29
93AA66B-I/P-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-Dip	.40	.28	.27
93AA66B-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-SOIC	.36	.26	.25
93AA66B-I/ST-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	8-TSSOP	.42	.30	.29
93AA66BT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	.41	.26	.25
93AA66BT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	720.00/3,000		
93AA66C-I/MS-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-MSOP	.42	.30	.29
93AA66C-I/P-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-Dip	.40	.28	.27
93AA66C-I/SN-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-SOIC	.36	.26	.25
93AA66C-I/ST-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-TSSOP	.42	.30	.29
93AA66CT-I/MCCT-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-DFN	.54	.34	.33
93AA66CT-I/MCTR-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V	8-DFN	1023.00/3,300		
93LC66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-Dip	.72	.52	.50
93LC66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.70	.50	.48
93LC66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.42	.30	.29
93LC66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 2.5V	8-Dip	.40	.28	.27
93LC66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.36	.26	.25
93LC66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 2.5V	8-DFN	.54	.34	.33
93LC66A/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.40	.28	.27
93LC66A/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.36	.26	.25
93LC66A/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.42	.30	.29
93LC66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-MSOP	.42	.30	.29
93LC66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-Dip	.40	.28	.27
93LC66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-SOIC	.36	.26	.25
93LC66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	8-TSSOP	.42	.30	.29
93LC66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	.41	.26	.25
93LC66B/P-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-Dip	.40	.28	.27
93LC66B/SN-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.36	.26	.25
93LC66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.42	.30	.29
93LC66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	8-Dip	.40	.28	.27
93LC66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.36	.26	.25
93LC66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	8-TSSOP	.42	.30	.29
93LC66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	8-DFN	.54	.34	.33
93LC66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	SOT-23-6	.41	.26	.25
93LC66BT-I/OTTR-ND	4K (256x16) CMOS Serial EEPROM, 2.5V	SOT-23-6	720.00/3,000		
93C66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-MSOP	.42	.30	.29
93C66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-Dip	.40	.28	.27
93C66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-SOIC	.36	.26	.25
93C66C-I/ST-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-TSSOP	.42	.30	.29
93C66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-DFN	.54	.34	.33
93C66CT-I/MCTR-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, 5V	8-DFN	1023.00/3,300		
93C66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-MSOP	.42	.30	.29
93C66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-Dip	.40	.28	.27
93C66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-SOIC	.36	.26	.25
93C66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-TSSOP	.42	.30	.29
93C66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-DFN	.54	.34	.33
93C66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, 5V	8-DFN	1023.00/3,300		
93C66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, 5V	SOT-23-6	.41	.26	.25
93C66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-MSOP	.42	.30	.29
93C66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-Dip	.40	.28	.27
93C66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-SOIC	.36	.26	.25
93C66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-DFN	.54	.34	.33
93C66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, 5V	8-DFN	1023.00/3,300		
93C66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, 5V	SOT-23-6	.41	.26	.25
93AA76A-I/SN-ND	8K (1024x8) CMOS Serial EEPROM, 1.8V*	8-SOIC	.50	.36	.35
93AA76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	.56	.36	.35
93AA76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	990.00/3,000		
93AA76B-I/SN-ND	8K (512x16) CMOS Serial EEPROM, 1.8V*	8-SOIC	.50	.36	.35
93AA76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, 1.8V	SOT-23-6	.56	.36	.35
93AA76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, 1.8V	SOT-23-6	990.00/3,000		
93AA76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 1.8V	8-Dip	.54	.38	.37
93AA76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 1.8V	8-SOIC	.50	.36	.35
93AA76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 1.8V	8-DFN	.70	.44	.43
93LC76A-I/SN-ND	8K (1024x8) CMOS Serial EEPROM, 2.5V*	8-SOIC	.50	.36	.35
93LC76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	.56	.36	.35
93LC76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	990.00/3,000		
93LC76B-I/SN-ND	8K (512x16) CMOS Serial EEPROM, 2.5V*	8-SOIC	.50	.36	.35
93LC76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, 2.5V	SOT-23-6	.56	.36	.35
93LC76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.56	.40	.39
93LC76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-Dip	.54	.38	.37
93LC76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.50	.36	.35
93LC76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-TSSOP	.56	.40	.39

* *RoHS Compliant*

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

(Continued)

MEMORY

Digi-Reel® *(Cont.)*

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
93LC76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-DFN	.70	.44	.43
93LC76CT-I/MCTR-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 2.5V	8-DFN	1353.00/3,300		
93C76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, 4.5V	SOT-23-6	.56	.36	.35
93C76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, 4.5V	SOT-23-6	990.00/3,000		
93C76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 4.5V	8-MSOP	.56	.40	.39
93C76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 4.5V	8-Dip	.54	.38	.37
93C76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 4.5V	8-SOIC	.50	.36	.35
93C76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, 4.5V	8-TSSOP	.56	.40	.39
93AA86A-I/SN-ND	16K (2048x8) CMOS Serial EEPROM, 1.8V*	8-SOIC	.56	.40	.39
93AA86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, 1.8V	SOT-23-6	.63	.40	.39
93AA86B-I/SN-ND	16K (1024x16) CMOS Serial EEPROM, 1.8V*	8-SOIC	.56	.40	.39
93AA86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, 1.8V	SOT-23-6	.63	.40	.39
93AA86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 1.8V	8-MSOP	.62	.44	.43
93AA86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 1.8V	8-SOIC	.56	.40	.39
93AA86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 1.8V	8-TSSOP	.62	.44	.43
93AA86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 1.8V	8-DFN	.77	.48	.46
93LC86-I/SN-ND	16K (2Kx8 or 1Kx16) CMOS Serial EEPROM, 2.5V	8-SOIC	1.12	.80	.77
93LC86A-I/SN-ND	16K (2048x8) CMOS Serial EEPROM, 2.5V*	8-SOIC	.56	.40	.39
93LC86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	.63	.40	.39
93LC86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, 2.5V	SOT-23-6	1110.00/3,000		
93LC86B-I/SN-ND	16K (1024x16) CMOS Serial EEPROM, 2.5V*	8-SOIC	.56	.40	.39
93LC86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-MSOP	.62	.44	.43
93LC86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-Dip	.58	.42	.41
93LC86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-SOIC	.56	.40	.39
93LC86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-TSSOP	.62	.44	.43
93LC86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-DFN	.77	.48	.46
93LC86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 2.5V	8-DFN	1452.00/3,300		
93C86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, 4.5V	SOT-23-6	.63	.40	.39
93C86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, 4.5V	SOT-23-6	1110.00/3,000		
93C86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, 4.5V	SOT-23-6	.63	.40	.39
93C86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, 4.5V	SOT-23-6	1110.00/3,000		
93C86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 4.5V	8-MSOP	.62	.44	.43
93C86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 4.5V	8-Dip	.58	.42	.41
93C86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 4.5V	8-SOIC	.56	.40	.39
93C86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 4.5V	8-TSSOP	.62	.44	.43
93C86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, 4.5V	8-DFN	.77	.48	.46
NEW! Microchip/SST — RoHS Compliant NEW!					
SPI / Serial Interface					
SST25VF512-20-4C-SAE-ND	512K (64Kx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	.55	.53	.51
SST25VF512A-33-4C-SAE-ND	512K (64Kx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	.51	.50	.48
SST25VF010A-33-4C-SAE-ND	1M (128Kx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	.65	.63	.61
SST25VF010A-33-4I-SAE-ND	1M (128Kx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	.79	.76	.73
SST25VF040B-80-4I-S2AE-ND	4M (512Kx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	1.02	.98	.94
SST25WF040-40-5I-SAF-ND	4M (512Kx8) SPI Serial Flash, 1.65V~1.95V	8-SOIC	2.09	2.01	1.93
SST25VF016B-50-4C-QAF-ND	16M (2Mx8) SPI Serial Flash, 2.7V~3.6V	8-WSON	2.22	1.85	1.55
SST25VF016B-50-4C-S2AF-ND	16M (2Mx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	1.55	1.49	1.43
SST25VF016B-50-4I-QAF-ND	16M (2Mx8) SPI Serial Flash, 2.7V~3.6V	8-WSON	2.42	2.02	1.69
SST25VF016B-50-4I-S2AF-ND	16M (2Mx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	2.18	1.82	1.52
SST25VF032B-66-4I-S2AF-ND	32M (4Mx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	2.78	2.67	2.56
SST25VF032B-80-4I-S2AF-ND	32M (4Mx8) SPI Serial Flash, 2.7V~3.6V	8-SOIC	2.40	2.31	2.21
SST25VF064C-80-4I-SCE-ND	64M (8Mx8) SPI Serial Flash, 2.7V~3.6V	16-SOIC	3.41	3.28	3.15
Parallel Interface					
SST39VF512-70-4C-NHE-ND	512K (64Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.18	1.13	1.09
SST39LF010-45-4C-NHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-PLCC	1.49	1.43	1.37
SST39LF010-45-4C-WHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-TSOP	1.56	1.50	1.44
SST39SF010A-70-4C-NHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PLCC	1.30	1.25	1.20
SST39SF010A-70-4C-PHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PDIP	1.78	1.71	1.64
SST39SF010A-70-4C-WHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-TSOP	1.36	1.31	1.26
SST39SF010A-70-4I-NHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PLCC	1.56	1.50	1.44
SST39SF010A-70-4I-WHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-TSOP	1.64	1.58	1.51
SST39VF010-70-4C-NHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.14	1.10	1.05
SST39VF010-70-4C-WHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-TSOP	1.20	1.16	1.11
SST39VF010-70-4I-NHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.36	1.31	1.26
SST39VF010-70-4I-WHE-ND	1M (128Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-TSOP	1.45	1.40	1.34
SST39LF020-45-4C-NHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-PLCC	1.89	1.82	1.74
SST39LF020-45-4C-WHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-TSOP	1.95	1.88	1.80
SST39SF020A-70-4C-NHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PLCC	1.60	1.54	1.48
SST39SF020A-70-4C-PHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PDIP	1.82	1.76	1.68
SST39SF020A-70-4C-WHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-TSOP	1.66	1.60	1.53
SST39SF020A-70-4I-NHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PLCC	1.91	1.83	1.76
SST39VF020-70-4C-NHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.19	1.14	1.10
SST39VF020-70-4C-WHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-TSOP	1.25	1.20	1.15
SST39VF020-70-4I-NHE-ND	2M (256Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.41	1.36	1.30
SST39VF200A-70-4C-EKE-ND	2M (128Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	1.52	1.46	1.40
SST39VF200A-70-4I-EKE-ND	2M (128Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	1.81	1.74	1.67
SST39LF040-45-4C-B3KE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 3V~3.6V	48-TFBGA	2.59	2.49	2.39
SST39LF040-45-4C-NHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-PLCC	2.23	2.14	2.05
SST39LF040-45-4C-WHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 3V~3.6V	32-TSOP	2.29	2.20	2.11
SST39LF400A-55-4C-EKE-ND	4M (256Kx16) Multi-Purpose Flash Flash, 3V~3.6V	48-TSOP	2.58	2.48	2.37
SST39SF040-70-4C-NHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PLCC	1.81	1.74	1.67
SST39SF040-70-4C-PHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-PDIP	2.04	1.96	1.88
SST39SF040-70-4C-WHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 4.5V~5.5V	32-TSOP	1.88	1.80	1.73
SST39VF040-70-4C-NHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.52	1.46	1.40
SST39VF040-70-4C-WHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-TSOP	1.60	1.54	1.48
SST39VF040-70-4I-NHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-PLCC	1.81	1.75	1.67
SST39VF040-70-4I-WHE-ND	4M (512Kx8) Multi-Purpose Flash Flash, 2.7V~3.6V	32-TSOP	1.89	1.82	1.74
SST39VF400A-70-4C-B3KE-ND	4M (256Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	1.65	1.59	1.53
SST39VF400A-70-4C-EKE-ND	4M (256Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	1.54	1.48	1.42
SST39VF400A-70-4I-EKE-ND	4M (256Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	1.87	1.80	1.73
SST39LF800A-55-4C-B3KE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 3V~3.6V	48-TFBGA	2.91	2.80	2.68
SST39LF800A-55-4C-EKE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 3V~3.6V	48-TSOP	2.80	2.69	2.58
SST39VF800A-70-4C-B3KE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	1.85	1.79	1.71
SST39VF800A-70-4C-EKE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	1.74	1.68	1.61
SST39VF800A-70-4I-B3KE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	2.20	2.12	2.03
SST39VF800A-70-4I-EKE-ND	8M (512Kx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	2.07	1.99	1.91
SST49LF008A-33-4C-EIE-ND	8M (1Mx8) Firmware Hub Flash, 3V~3.6V	40-TSOP	4.04	3.88	3.72
SST49LF008A-33-4C-NHE-ND	8M (1Mx8) Firmware Hub Flash, 3V~3.6V	32-PLCC	3.82	3.67	3.52
SST49LF008A-33-4C-WHE-ND	8M (1Mx8) Firmware Hub Flash, 3V~3.6V	32-TSOP	3.89	3.74	3.58
SST49LF080A-33-4C-NHE-ND	8M (1Mx8) LPC Flash, 3V~3.6V	32-PLCC	3.82	3.67	3.52
SST49LF080A-33-4C-WHE-ND	8M (1Mx8) LPC Flash, 3V~3.6V	32-TSOP	3.89	3.74	3.58
SST39VF1601-70-4C-B3KE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	2.99	2.88	2.76
SST39VF1601-70-4C-EKE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	2.88	2.77	2.66
SST39VF1601-70-4I-EKE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	3.47	3.33	3.19
SST39VF1602-70-4C-EKE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	2.88	2.77	2.66
SST39VF1602-70-4I-B3KE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	3.58	3.44	3.30
SST39VF1602-70-4I-EKE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	3.47	3.33	3.19
SST39VF1681-70-4C-EKE-ND	16M (2Mx8) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	2.59	2.49	2.39

MEMORY

Digi-Reel® *(Cont.)*

RoHS Compliant Parts Available

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
SST39VF1681-70-4I-B3KE-ND	16M (2Mx8) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	3.24	3.11	2.98
SST39VF1681-70-4I-EKE-ND	16M (2Mx8) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	3.12	3.00	2.88
SST39VF1682-70-4C-EKE-ND	16M (2Mx8) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	2.59	2.49	2.39
SST39WF1601-70-4C-B3KE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 1.65V~1.95V	48-TFBGA	4.15	3.99	3.82
SST39WF1601-70-4I-B3KE-ND	16M (1Mx16) Multi-Purpose Flash Flash, 1.65V~1.95V	48-TFBGA	4.98	4.78	4.58
SST49LF016C-33-4C-EIE-ND	16M (2Mx8) LPC Flash, 3V~3.6V	40-TSOP	4.68	4.50	4.31
SST49LF016C-33-4C-NHE-ND	16M (2Mx8) LPC Flash, 3V~3.6V	32-PLCC	4.46	4.29	4.11
SST49LF016C-33-4C-WHE-ND	16M (2Mx8) LPC Flash, 3V~3.6V	32-TSOP	4.52	4.35	4.16
SST49LF160C-33-4C-NHE-ND	16M (2Mx8) LPC Flash, 3V~3.6V	32-PLCC	4.46	4.29	4.11
SST39VF3201-70-4C-B3KE-ND	32M (2Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TFBGA	4.66	4.48	4.29
SST39VF3201-70-4C-EKE-ND	32M (2Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	4.55	4.37	4.19
SST39VF3201-70-4I-EKE-ND	32M (2Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	5.44	5.22	5.01
SST39VF3201B-70-4C-EKE-ND	32M (2Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	3.06	2.94	2.82
SST39VF3202-70-4I-EKE-ND	32M (2Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	5.44	5.22	5.01
SST39VF6401B-70-4C-EKE-ND	64M (4Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	6.57	6.31	6.05
SST39VF6401B-70-4I-EKE-ND	64M (4Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	7.89	7.58	7.27
SST39VF6402B-70-4C-EKE-ND	64M (4Mx16) Multi-Purpose Flash Flash, 2.7V~3.6V	48-TSOP	6.57	6.31	6.05

NEW! SAFETY DEVICES

MICROCHIP

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	25
RE46C101S8F-ND	Piezoelectric Horn Driver/LED Driver Circuit	8-SOIC	.60	.51	.43
RE46C105E14F-ND	Piezoelectric Horn Driver with Voltage Regulator/LED Driver	14-Dip	1.16	.98	.82
RE46C105S14F-ND	Piezoelectric Horn Driver with Voltage Regulator/LED Driver	14-SOIC	1.16	.98	.82
RE46C107E16F-ND	DC-DC Converter, Voltage Regulator/Piezoelectric Horn Driver	16-Dip	1.38	1.16	.97
RE46C107S16F-ND	DC-DC Converter, Voltage Regulator/Piezoelectric Horn Driver	16-SOIC	1.38	1.16	.97
RE46C108E8F-ND	Piezoelectric Horn Driver and Voltage Regulator	8-Dip	.96	.82	.69
RE46C122E16F-ND	CMOS Ionization Smoke Detector ASIC	16-Dip	.94	.79	.66
RE46C140E16F-ND	CMOS Photoelectric Smoke Detector ASIC	16-Dip	.96	.82	.69
RE46C140S16F-ND	CMOS Photoelectric Smoke Detector ASIC	16-SOIC	.96	.82	.69
RE46C141E16F-ND	CMOS Photoelectric Smoke Detector ASIC	16-Dip	.96	.82	.69
RE46C141S16F-ND	CMOS Photoelectric Smoke Detector ASIC	16-SOIC	.96	.82	.69
RE46C152E16F-ND	CMOS Ionization Smoke Detector ASIC	16-Dip	.88	.75	.62

SRAM

CYPRESS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Asynchronous SRAM — RoHS Compliant						
CY7C009V-15AXC	428-1786-ND	1M-Bit, 128Kx8, 3.3V, 15nS ***NEW!***	100-LQFP	53.72	47.40	45.03
CY7C109D-10VXI	428-2010-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.78	3.04	2.77
CY7C109D-10ZXI	428-2011-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-TSOP	3.78	3.04	2.77
CY7C185-20PXC	428-2157-5-ND	64K-Bit, 8Kx8 Power Down, 20nS	28-DIP	3.36	2.70	2.46
CY7C199CN-15PXC	428-2158-5-ND	256K-Bit, 32Kx8 Power Down, 15nS	28-DIP	2.51	2.03	1.83
CY7C199D-10VXI	428-1954-5-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-SOJ	2.51	2.03	1.83
CY7C199D-10ZXI	428-2013-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-TSOP	2.51	2.03	1.83
CY7C199D-10ZXIT	428-2014-1-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-TSOP	2.59	2.01	1.82
CY7C1009D-10VXI	428-1959-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	4.48	3.60	3.28
CY7C1010DV33-10ZSXI	428-1960-ND	2M-Bit, 256Kx8, Power Down, 10nS	44-TSOP	5.88	4.73	4.31
CY7C1011DV33-10ZSXI	428-1962-ND	2M-Bit, 128Kx16, Power Down, 10nS	44-TSOP	5.88	4.73	4.31
CY7C1018DV33-10VXI	428-1963-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.58	2.88	2.63
CY7C1019D-10VXI	428-1964-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.92	3.15	2.87
CY7C1019D-10ZSXI	428-1965-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-TSOP	3.92	3.15	2.87
CY7C1019DV33-10BVXI	428-2004-ND	1M-Bit, 128Kx8, 3.3V, 10nS	48-VFBGA	3.58	2.88	2.63
CY7C1019DV33-10VXI	428-1966-5-ND	1M-Bit, 128Kx8, 3.3V, 10nS	32-SOJ	3.58	2.88	2.63
CY7C1019DV33-10ZSXI	428-1967-ND	1M-Bit, 128Kx8, 3.3V, 10nS	32-TSOP	3.58	2.88	2.63
CY7C1020D-10VXI	428-1968-5-ND	512K-Bit, 32Kx16, Power Down, 10nS	44-SOJ	5.29	4.26	3.88
CY7C1020D-10ZSXI	428-1969-ND	512K-Bit, 32Kx16, Power Down, 10nS	44-TSOP	5.29	4.26	3.88
CY7C1020DV33-10ZSXI	428-1970-ND	512K-Bit, 32Kx16, 3.3V, 10nS	44-TSOP	4.48	3.60	3.28
CY7C1021D-10VXI	428-1971-5-ND	1M-Bit, 64Kx16, Power Down, 10nS	44-SOJ	3.98	3.20	2.92
CY7C1021D-10ZSXI	428-1972-ND	1M-Bit, 64Kx16, Power Down, 10nS	44-TSOP	3.98	3.20	2.92
CY7C1021DV33-10BVXI	428-2006-ND	1M-Bit, 64Kx16, 3.3V, 10nS	48-VFBGA	3.36	2.70	2.46
CY7C1021DV33-10VXI	428-1973-5-ND	1M-Bit, 64Kx16, 3.3V, 10nS	44-SOJ	3.36	2.70	2.46
CY7C1021DV33-10ZSXI	428-1974-ND	1M-Bit, 64Kx16, 3.3V, 10nS	44-TSOP	3.36	2.70	2.46
CY7C1041D-10VXI	428-1975-5-ND	4M-Bit, 256Kx16, Low Power, 10nS	44-SOJ	8.00	6.56	5.92
CY7C1041D-10ZSXI	428-1923-ND	4M-Bit, 256Kx16, Adj., 10nS	44-TSOP	8.00	6.56	5.92
CY7C1041DV33-10BVXI	428-1976-ND	4M-Bit, 256Kx16, 3.3V, 10nS	44-VFBGA	6.38	5.23	4.72
CY7C1041DV33-10VXI	428-1977-5-ND	4M-Bit, 256Kx16, 3.3V, 10nS	44-SOJ	6.38	5.23	4.72
CY7C1041DV33-10ZSXI	428-1921-ND	4M-Bit, 256Kx16, 3.3V, 10nS	44-TSOP	6.38	5.23	4.72
CY7C1046DV33-10VXI	428-1979-5-ND	4M-Bit, 1Mx4, 3.3V, Pwr. Down, 10nS	32-SOJ	8.00	6.56	5.92
CY7C1049D-10VXI	428-1980-5-ND	4M-Bit, 512Kx8, Power Down, 10nS	36-SOJ	8.00	6.56	5.92
CY7C1049DV33-10VXI	428-1981-5-ND	4M-Bit, 512Kx8, 3.3V, 10nS	36-SOJ	6.38	5.23	4.72
CY7C1049DV33-10ZSXI	428-1982-ND	4M-Bit, 512Kx8, 3.3V, 10nS	44-TSOP	6.38	5.23	4.72
CY7C1061AV33-10ZXC	428-1983-ND	16M-Bit, 1Mx16, 3.3V, 10nS	54-TSOP	39.60	33.66	31.19
CY7C1061AV33-10ZXI	428-1984-ND	16M-Bit, 1Mx16, 3.3V, 10nS	54-TSOP	39.60	33.66	31.19
CY7C1061DV33-10ZSXI	428-2960-5-ND	16M-Bit, 1Mx16, 3.3V, 10nS* ***NEW!***	54-TSOP	39.60	33.66	31.19
CY7C1069AV33-10ZXC	428-1986-ND	16M-Bit, 2Mx8, 3.3V, 10nS	54-TSOP	39.60	33.66	31.19
CY7C1069DV33-10ZSXI	428-2959-5-ND	16M-Bit, 2Mx8, 3.3V, 10nS* ***NEW!***	54-TSOP	39.60	33.66	31.19
CY7C1399BN-12VXC	428-1988-5-ND	256K-Bit, 32Kx8, 3.3V, LP, 12nS	28-SOJ	2.54	2.05	1.85
CY7C1399BN-12VXI	428-1989-5-ND	256K-Bit, 32Kx8, 3.3V, LP, 12nS	28-SOJ	2.54	2.05	1.85
CY7C1399BN-12ZXC	428-1990-ND	256K-Bit, 32Kx8, 3.3V, LP, 12nS	28-TSOP	2.54	2.05	1.85
CY7C1399BN-15ZXI	428-1991-ND	256K-Bit, 32Kx8, 3.3V, LP, 15nS	28-TSOP	2.54	2.05	1.85
Synchronous SRAM						
CY7C1339G-133AXC	428-2112-ND	4M-Bit, 128Kx32, 3.3V Sync. Pipe*	100-LQFP	10.10	8.29	7.48
CY7C1345G-100AXC	428-2113-ND	4M-Bit 128Kx36, 3.3V Flow Through*	100-LQFP	10.10	8.29	7.48
CY7C1347G-133AXC	428-1741-ND	128Kx36, 3.3V Sync. Pipe SRAM*	100-LQFP	10.10	8.29	7.48
CY7C1347G-166AXC	428-2114-ND	128Kx36 3.3V Sync. Pipe SRAM*	100-LQFP	10.10	8.29	7.48
CY7C1347G-200AXC	428-2115-ND	128Kx36 3.3V Sync. Pipe SRAM*	100-LQFP	11.10	9.11	8.22
CY7C1352G-133AXC	428-1739-ND	256Kx18, 3.3V NoBL™ Sync. Pipe*	100-LQFP	10.10	8.29	7.48
CY7C1353G-100AXC	428-2118-ND	256x18, 3.3V NoBL Sync. Pipe SRAM*	100-LQFP	10.10	8.29	7.48
CY7C1354C-166AXC	428-2159-ND	9M-Bit, 256Kx36, 3.3V NoBL Pipe*	100-LQFP	15.00	12.62	11.60
CY7C1354C-166AXI	428-2119-ND	9M-Bit, 256Kx36, 3.3V NoBL Pipe*	100-LQFP	15.18	12.77	11.73
CY7C1354C-200AXC	428-2120-ND	9M-Bit, 256Kx36, 3.3V NoBL Pipe*	100-LQFP	15.38	12.94	11.89
CY7C1355B-100AC	428-1501-ND	256Kx36, 3.3V NoBL Flow Through	100-LQFP	16.34	13.74	12.63
CY7C1355C-133AXC	428-1862-ND	256Kx36, 3.3V NoBL™ Sync. SRAM*	100-LQFP	14.87	12.51	11.50
CY7C1356C-166AXC	428-2122-ND	9M-Bit, 512Kx18, 3.3V NoBL Pipe*	100-LQFP	15.05	12.66	11.63
CY7C1361C-100AXC	428-2127-ND	9M-Bit, 256KX36 3.3V Flow-Through*	100-LQFP	16.61	13.97	12.84
CY7C1362C-200AXC	428-2129-ND	9M-Bit, 512Kx18, 3.3V Sync. Pipe*	100-LQFP	15.95	13.42	12.33
CY7C1370D-167AXC	428-2135-ND	18M-Bit, 512Kx36, NoBL Sync. Pipe*	100-LQFP	36.10	30.69	28.43
CY7C1370D-167AXI	428-2136-ND	18M-Bit, 512Kx36, NoBL Sync. Pipe*	100-LQFP	36.16	30.74	28.48
CY7C1370D-200AXC	428-2137-ND	18M-Bit, 512Kx36, NoBL Sync. Pipe*	100-LQFP	36.10	30.69	28.43
CY7C1371D-100AXC	428-1631-ND	512Kx36, 3.3V NoBL Flow Through*	100-LQFP	32.08	27.27	25.27
CY7C1371D-133AXC	428-2139-ND	18M-Bit, 512Kx36, NoBL Pipe*	100-LQFP	32.08	27.27	25.27
CY7C1372D-200AXC	428-2142-ND	18M-Bit, 1Mx18, NoBL Sync. Pipe*	100-LQFP	32.08	27.27	25.27

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(Continued)

CYPRESS *(Cont.)*

SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY7C1380D-167AXC	428-1629-ND	512Kx36, 3.3V Sync. Pipe SRAM*	100-LQFP	32.08	27.27	25.27
CY7C1380D-167AXI	428-2144-ND	512Kx36, Sync. Pipe SRAM*	100-LQFP	35.28	29.99	27.79
CY7C1380D-200AXC	428-2145-ND	512Kx36, Sync. Pipe SRAM*	100-LQFP	32.08	27.27	25.27
CY7C1381D-100BZXI	428-2146-ND	512Kx36, Flow-Through Sync. SRAM*	165-LFBGA	37.66	32.02	29.66
CY7C1382D-167AXC	428-1632-ND	512Kx36, 3.3V Sync. Pipe SRAM*	100-LQFP	34.08	28.97	26.84
CY7C1383D-133AXC	428-1848-ND	18M-Bit, 512Kx36, 3.3V	100-LQFP	32.08	27.27	25.27
CY7C1383D-133AXI	428-2149-ND	18M-Bit, 512Kx36, 3.3V*	100-LQFP	35.28	29.99	27.79
CY7C1386D-167AXC	428-1740-ND	18M-Bit, 512Kx36, 3.3V Pipe DCD*	100-LQFP	32.08	27.27	25.27
CY7C1441AV33-133AXC	428-2152-ND	36M-Bit, 1Mx36, 3.3V Flow Through*	100-LQFP	57.12	50.40	47.88
CY7C1460AV25-167AXC	428-2162-ND	36M-Bit, 1Mx36, NoBL Sync. Pipe*	100-LQFP	57.12	50.40	47.88
CY7C1460AV33-200AXC	428-2163-ND	36M-Bit, 1Mx36, NoBL Sync. Pipe*	100-LQFP	57.12	50.40	47.88
CY7C1470V33-167AXC	428-2166-ND	72M-Bit, 2Mx36, NoBL Sync. Pipe*	100-LQFP	136.64	123.20	119.17
CY7C1480V33-167AXC	428-2169-ND	72M-Bit, 2Mx36, Sync. Pipe SRAM*	100-LQFP	136.64	123.20	119.17
Dual Port SRAM						
CY7C006AV-25AXC	428-2088-ND	128K-Bit, 16Kx8, Async., 25nS*	64-LQFP	28.00	23.80	22.05
CY7C024-15AXC	428-1789-ND	64K-Bit, 4Kx16, 5V, Async., 15nS*	100-LQFP	30.40	25.84	23.94
CY7C024-25AXI	428-2090-ND	64K-Bit, 4Kx16, Asynchronous, 25nS*	100-LQFP	20.46	17.21	15.81
CY7C024-55AXC	428-2091-ND	64K-Bit, 4Kx16, Asynchronous, 55nS*	100-LQFP	18.70	15.73	14.45
CY7C024AV-20AXC	428-2092-ND	64K-Bit, 4Kx16, 3.3V, Async., 20nS*	100-LQFP	19.91	16.75	15.39
CY7C024AV-25AC	428-1155-ND	64K-Bit, 4Kx16, 3.3V, Async., 25nS	100-TQFP	21.80	18.53	17.17
CY7C024AV-25AXC	428-1790-ND	64K-Bit, 4Kx16, 3.3V, Async., 25nS*	100-LQFP	19.91	16.75	15.39
CY7C025-55AXC	428-2094-ND	128K-Bit, 8Kx16, Async., 55ns*	100-LQFP	23.92	20.34	18.84
CY7C025AV-20AXC	428-1752-ND	128K-Bit, 8Kx16, 3.3V, Async., 20nS*	100-LQFP	23.92	20.34	18.84
CY7C025AV-25AXC	428-2095-ND	128K-Bit, 8Kx16, 3.3V, Async., 25nS*	100-LQFP	23.92	20.34	18.84
CY7C026AV-25AXC	428-2096-ND	256K-Bit, 16Kx16, Async., 25nS*	100-LQFP	32.40	27.54	25.52
CY7C026AV-25AXI	428-2097-ND	256K-Bit, 16Kx16, Async., 25nS*	100-LQFP	38.52	32.75	30.34
CY7C027-20AXC	428-2098-ND	512K-Bit, 32Kx16, Async., 20nS*	100-LQFP	43.66	37.76	35.40
CY7C027V-15AXC	428-1754-ND	512K-Bit, 32Kx16, 3.3V, Async. 15nS*	100-LQFP	43.66	37.76	35.40
CY7C028-15AC	428-1443-ND	SRAM 64Kx16, Asynchronous, 15nS	100-TQFP	79.53	71.10	67.48
CY7C028V-15AXC	428-1755-ND	1M-Bit, 64Kx16, 3.3V, Async., 15nS*	100-LQFP	72.63	64.93	61.63
CY7C028V-20AXC	428-2102-ND	1M-Bit, 64x16, 3.3v, Async., 20nS*	100-LQFP	51.41	45.36	43.10
CY7C131-55JXC	428-1791-ND	8K-Bit, 1Kx8, Async. Master 55nS*	52-PLCC	7.43	6.09	5.50
CY7C131-55NXC	428-2111-ND	8K-Bit, 1Kx8, Async. Master, 55nS*	52-QFP	7.68	6.30	5.68
CY7C136-25JXC	428-2038-5-ND	16K-Bit, 2Kx8, Async., 25nS Access*	52-PLCC	13.64	11.47	10.54
CY7C136-55JXC	428-2132-ND	16K-Bit, 2Kx8, Async., 55nS Access*	52-PLCC	9.38	7.69	6.94
CY7C136-55NXC	428-2133-ND	16K-Bit, 2Kx8, Async., 55nS Access*	52-PQFP	9.38	7.69	6.94
CY7C09289V-12AXC	428-2108-ND	64Kx16 3.3V, Sync. 3-Mode, 12nS*	100-LQFP	61.29	54.08	51.38
CY7C09349A-12AC	428-1446-ND	64K-Bit, 4Kx18, Synchronous, 12nS	100-LQFP	19.10	16.24	15.04
Low Power SRAM — RoHS Compliant						
CY6264-70SNXC	428-1785-ND	64K-Bit, 8Kx8, Power Down SRAM	28-SOIC	5.60	4.50	4.10
CY62126EV30LL-45BVXI	428-2062-ND	1M-Bit, 64Kx16 SRAM	48-VFBGA	3.22	2.59	2.36
CY62126EV30LL-45ZSXI	428-2063-ND	1M-Bit, 64Kx16 SRAM	44-TSOP	3.22	2.59	2.36
CY62128ELL-45SXI	428-1941-5-ND	1M-Bit, 128Kx8 SRAM	32-SOIC	4.51	3.63	3.31
CY62128ELL-45ZXI	428-2040-ND	1M-Bit, 128Kx8, 5V, Pwr. Down SRAM	32-TSOP	4.51	3.63	3.31
CY62128EV30LL-45SXI	428-2065-5-ND	1M-Bit, 128Kx8 SRAM	32-SOIC	3.22	2.59	2.36
CY62128EV30LL-45ZAXI	428-2066-ND	1M-Bit, 128Kx8 SRAM	32-STSOP	3.22	2.59	2.36
CY62128EV30LL-45ZXI	428-2067-ND	1M-Bit, 128Kx8 SRAM	32-TSOP	3.22	2.59	2.36
CY62136EV30LL-45ZSXI	428-2068-ND	2M-Bit, 128Kx16 SRAM	44-TSOP	4.98	4.01	3.65
CY62137EV30LL-45ZSXI	428-2069-ND	2M-Bit, 128Kx16 SRAM	44-TSOP	4.98	4.01	3.65
CY62146ELL-45ZSXI	428-2070-ND	4M-Bit, 256Kx16 SRAM	44-TSOP	9.00	7.38	6.66
CY62146EV30LL-45ZSXI	428-2071-ND	4M-Bit, 256Kx16 SRAM	44-TSOP	7.50	6.15	5.55
CY62147EV30LL-45BVXI	428-2072-ND	4M-Bit, 256Kx16 SRAM	48-VFBGA	7.50	6.15	5.55
CY62147EV30LL-45ZSXI	428-2073-ND	4M-Bit, 256Kx16 SRAM	44-TSOP	7.50	6.15	5.55
CY62148ELL-45ZSXI	428-1804-ND	4M-Bit, 512Kx8, Power Down SRAM	32-TSOP	9.00	7.38	6.66
CY62148EV30LL-45BVXI	428-2075-ND	4M-Bit, 512Kx8 Power Down SRAM	36-VFBGA	7.50	6.15	5.55
CY62148EV30LL-45ZSXI	428-2076-ND	4M-Bit, 512Kx8 Power Down SRAM	32-TSOP	7.50	6.15	5.55
CY62157ELL-45ZSXI	428-2077-ND	8M-Bit, 512Kx16 Power Down SRAM	44-TSOP	14.30	12.03	11.05
CY62157EV30LL-45BVXI	428-2078-ND	8M-Bit, 512Kx16 Power Down SRAM	48-VFBGA	11.50	9.43	8.51
CY62157EV30LL-45ZSXI	428-2079-ND	8M-Bit, 512Kx16 Power Down SRAM	44-TSOP	11.50	9.43	8.51
CY62157EV30LL-45ZXI	428-2080-5-ND	8M-Bit, 512Kx16 Power Down SRAM	48-TSOP	11.50	9.43	8.51
CY62158EV30LL-45ZSXI	428-2081-ND	8M-Bit, 512Kx16 Power Down SRAM	44-TSOP	11.50	9.43	8.51
CY62167DV30LL-55BVXI	428-2041-ND	16M-Bit, 1Mx16, SRAM	48-VFBGA	13.86	11.66	10.71
CY62167DV30LL-55ZXI	428-1860-ND	16M-Bit, 1Mx16, SRAM	48-TSOP	13.86	11.66	10.71
CY62256NLL-55SNXI	428-2083-5-ND	256K-Bit, 32Kx8 Power Down SRAM	28-SOIC	2.80	2.25	2.05
CY62256NLL-55ZXI	428-2084-5-ND	256K-Bit, 32Kx8 Power Down SRAM	28-TSOP	2.80	2.25	2.05
CY62256NLL-70SNXC	428-2039-5-ND	256K-Bit, 32Kx8, 5V, SRAM	28-SOIC	2.80	2.25	2.05
CY62256VNLL-70SNXI	428-2001-5-ND	256K-Bit, 32Kx8, Power Down SRAM	28-SOIC	2.80	2.25	2.05
CY62256VNLL-70ZXI	428-2085-ND	256K-Bit, 32Kx8 Power Down SRAM	28-TSOP	2.80	2.25	2.05

CYPRESS

FIFO

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Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY7C421-20JXC	428-2911-5-ND	512x9, Async. FIFO, 20nS ***NEW!***	32-PLCC	7.13	5.85	5.28
CY7C4225-15AXC	428-1758-ND	1Kx18, Sync. FIFO, 15nS	64-LQFP	22.30	18.96	17.57
CY7C4251V-15AXC	428-1762-ND	8Kx9, 3.3V Sync. FIFO, 15nS	32-TQFP	23.90	20.32	18.83
CY7C4265-15AXC	428-2171-ND	16Kx18, Deep Sync. FIFO, 15nS	64-LQFP	55.41	47.92	44.93

CYPRESS

BUFFERS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY2CC810OXI	428-2900-5-ND	Clock Fanout Buffer 1:10* ***NEW!***	20-SSOP	6.50	5.33	4.81
CY2CC1810OXI	428-2237-5-ND	Clock Fanout Buffer 1:10, Output Enable*	24-SSOP	7.50	6.15	5.55
CY7B991-7JC	428-1376-ND	Clock Buffer TTL Out	32-PLCC	12.01	10.11	9.29
CY7B994V-5AXC	428-2910-ND	Clock Buffer 3.3V Multi-Phase* ***NEW!***	100-LQFP	40.05	34.64	32.48
CY7B9911V-5JXC	428-2240-5-ND	Clock Buffer Prog. Skew High Speed*	32-PLCC	31.30	26.61	24.65
CY7B9945V-2AXI	428-2247-ND	Clock Buffer 3.3V Multi-Phase*	52-LQFP	36.10	30.69	28.43
CY7B9950AXC	428-2250-ND	Clock Buffer HS Multi-Phase*	32-TQFP	25.30	21.51	19.93
CY23EP05SXC-1H	428-2211-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	6.72	5.40	4.92
CY23EP09ZXC-1H	428-2212-5-ND	Zero Delay Buffer, 3.3V, 9 Output*	16-TSSOP	6.30	5.07	4.62
CY23EP09ZXI-1H	428-2213-5-ND	Zero Delay Buffer, 3.3V, 9 Output*	16-TSSOP	7.00	5.74	5.18
CY2302SXC-1	428-2187-5-ND	Zero Delay Buffer 3.3V Freq. Multiplier*	8-SOIC	4.12	3.31	3.02
CY2303SXC	428-2189-5-ND	Phase Aligned Clock Multiplier*	8-SOIC	6.25	5.13	4.63
CY2304NZZXC-1	428-2190-ND	Gen. Purpose Buffer 4 Output, PCI-X*	8-TSSOP	5.88	4.73	4.31
CY2304NZZXI-1	428-2191-5-ND	Gen. Purpose Buffer 4 Output, PCI-X*	8-TSSOP	6.38	5.23	4.72
CY2304SXC-1	428-2192-5-ND	Zero Delay Clock Buffer 3.3V*	8-SOIC	3.67	2.95	2.69
CY2304SXC-2	428-2894-5-ND	Zero Delay Clock Buffer 3.3V* ***NEW!***	8-SOIC	5.60	4.50	4.10
CY2305CSXC-1	428-2193-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	2.95	2.38	2.14
CY2305CSXC-1H	428-2194-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	3.33	2.68	2.44
CY2305CSXI-1	428-2195-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	3.22	2.59	2.36
CY2305CSXI-1H	428-2196-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	3.89	3.13	2.85
CY2305SXC-1	428-1766-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	2.02	1.63	1.47
CY2305SXC-1H	428-1767-5-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	2.23	1.80	1.62
CY2305SXI-1	428-1792-ND	Zero Delay Buffer, 3.3V, 5 Output*	8-SOIC	2.70	2.18	1.96

CYPRESS *(Cont.)*

BUFFERS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY2305SXI-1H	428-2895-5-ND	Zero Delay Buffer, 3.3V, 5 Output* ***NEW!***	8-SOIC	5.60	4.50	4.10
CY2308SXC-1	428-1768-5-ND	Zero Delay Buffer, 3.3V, 8 Output*	16-SOIC	4.68	3.76	3.43
CY2308SXC-2	428-1769-5-ND	Zero Delay Buffer, 3.3V, 8 Output*	16-SOIC	4.34	3.49	3.18
CY2308ZXC-1H	428-2202-5-ND	Zero Delay Buffer, 3.3V, 8 Output*	16-TSSOP	5.60	4.50	4.10
CY2309NZSXI-1H	428-2205-5-ND	Zero Delay Buffer, 3.3V, 9 Output*	16-SOIC	7.50	6.15	5.55
CY2309SXC-1H	428-2207-5-ND	Zero Delay Buffer, 3.3V, 9 Output*	16-SOIC	3.33	2.68	2.44
CY2309SXI-1	428-2897-5-ND	Zero Delay Buffer, 3.3V, 9 Output* ***NEW!***	16-SOIC	8.75	7.18	6.48
CY2309ZXC-1H	428-1793-ND	Zero Delay Buffer, 3.3V, 9 Output*	16-TSSOP	6.16	4.95	4.51
CY2309ZXI-1H	428-2898-5-ND	Zero Delay Buffer, 3.3V, 9 Output* ***NEW!***	16-TSSOP	6.16	4.95	4.51
CY2313ANZSXC-1	428-2210-5-ND	SDRAM Buffer 3.3V 13 Output*	28-SSOP	8.50	6.97	6.29
W232ZXC-10	428-2893-5-ND	Zero Delay Buffer 3.3V 10 Output* ***NEW!***	24-TSSOP	4.20	3.38	3.08
W256H	428-1399-ND	Clock Buffer 3.3V 12 Out DIMM 3SDRAM	28-SSOP	3.26	2.63	2.39

CYPRESS

CLOCK GENERATORS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY2291FX	428-2184-5-ND	Clock Generator EPROM Prog. 3PLL 3.3V*	20-SOIC	3.78	3.04	2.77
CY2292FXI	428-2185-5-ND	Clock Generator EPROM Prog. 3PLL 3.3V*	16-SOIC	4.70	3.78	3.45
CY3672-USB	428-1918-ND	Clock Generator Programming Kit	—	474.15	—	—
CY3675-CLKMAKER1	428-2976-ND	Clock Programming Kit ***NEW!***	—	267.94	—	—
CY22150FZXC	428-2176-5-ND	Clock Generator GP 1PLL 3.3V*	16-TSSOP	3.78	3.04	2.77
CY22392FXI	428-2179-5-ND	Clock Generator Flash Prog 3PLL 3.3V*	16-TSSOP	7.13	5.85	5.28
CY22393FXI	428-2180-5-ND	Clock Generator Serial/Flash Programmable*	16-TSSOP	7.13	5.85	5.28
CY22395FXC	428-2182-5-ND	Clock Generator Serial/Flash Programmable*	16-TSSOP	6.50	5.33	4.81
CY22800FXC	428-1809-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	3.00	2.41	2.20
CY22800FXC-001A	428-1810-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-002A	428-1811-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-003A	428-1812-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-004A	428-1813-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-005A	428-1814-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-006A	428-1815-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-007A	428-1816-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-008A	428-1817-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-009A	428-1818-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-010A	428-1819-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-011A	428-1820-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-012A	428-1821-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-013A	428-1822-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-014A	428-1823-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-015A	428-1824-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-016A	428-1825-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-017A	428-1826-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-018A	428-1827-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-019A	428-1828-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-020A	428-1829-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-021A	428-1830-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-022A	428-1831-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-023A	428-1832-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-024A	428-1833-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-025A	428-1834-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-026A	428-1835-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-027A	428-1836-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-028A	428-1837-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-029A	428-1838-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-030A	428-1839-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-031A	428-1840-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-032A	428-1841-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-033A	428-1842-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-034A	428-1843-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-035A	428-1844-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-036A	428-1845-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22381FC	428-1388-ND	Clock Generator Sync. Flash Programmable	8-SOIC	5.71	4.59	4.18
CY22381FXC	428-1742-ND	Clock Generator Sync. Flash Programmable*	8-SOIC	5.32	4.28	3.90
CY22393FXC	428-1744-5-ND	Clock Generator Sync. Serial/Flash 3PLL*	16-TSSOP	6.50	5.33	4.81
CY25100SXCF	428-2219-5-ND	Clock Generator 3.3V Spread Spectrum, Field/Factory Programmable*	8-SOIC	4.73	3.81	3.47
CY25811SXC	428-2225-5-ND	Clock Generator, Spread Spectrum 3.3V*	8-SOIC	2.29	1.85	1.67
CY25812SXC	428-2226-5-ND	Clock Generator, Spread Spectrum 3.3V*	8-SOIC	2.98	2.40	2.16
CY25814SXI	428-2228-5-ND	Clock Generator, Spread Spectrum 3.3V*	8-SOIC	4.12	3.31	3.02
CY2907FX8	428-2229-5-ND	Clock Generator, 1PLL 3.3V EPROM Prog.*	8-SOIC	3.56	2.86	2.61
CYIFS781BSXC	428-2269-5-ND	Clock Generator, Low EMI*	8-SOIC	2.39	1.93	1.74
W48C111-16H	428-1402-ND	Clock Generator Frequency Mod. SSCG	28-SSOP	8.33	6.83	6.17
W234X	428-1398-ND	Clock Generator Direct Rambus 3.3V Dual	28-TSSOP	12.20	10.26	9.43

ATMEL Digi-Reel®

INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ATA2516-6AQYCT-ND	ASIC IR Receiver, 4.5V ~ 5.5V*	8-TSSOP	1.12	1.08	1.04
ATA2516-6AQYTR-ND	ASIC IR Receiver, 4.5V ~ 5.5V*	8-TSSOP	5160.00/5,000		
ATA6830-PKHCT-ND	Intelligent Stepper Motor Driver	28-QFN	2.90	2.79	2.68
T6817-TKQCT-ND	Dual Triple DMOS out Driver with Serial Input Control	20-SSOP	1.79	1.73	1.66
T6819-TBQCT-ND	Dual Triple DMOS Output Driver w/Serial Input Control	16-SOIC	1.79	1.73	1.66

ATMEL Digi-Reel®

SERIAL EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
2-Wire Serial Interface EEPROMs — RoHS Compliant					
AT24C01B-PU-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.32	.28	.23
AT24C01BN-SH-B-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.31	.26	.23
AT24C01B-TH-B-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.35	.30	.25
AT24C02B-PU-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.35	.34	.30
AT24C02B-TH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.43	.37	.32
AT24C02BN-SH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.35	.34	.30
AT24HC02B-TH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.40	.39	.34
AT24HC02BN-SH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.38	.37	.32
AT24HC04B-PU-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.41	.40	.35
AT24HC04B-TH-B-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.53	.43	.37
AT24HC04BN-SH-B-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.41	.40	.35
AT24C04A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.25	.24	.23
AT24C04A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.32	.31	.30
AT24C04A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.31	.30	.29

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* *RoHS Compliant*

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(Continued)

ATMEL Digi-Reel® (Cont.) SERIAL EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT24C04B-PU-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.40	.39	.34
AT24C04B-TH-B-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.51	.42	.36
AT24C04BN-SH-B-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.40	.39	.34
AT24C08B-PU-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.46	.41	.36
AT24C08B-TH-B-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.53	.44	.38
AT24C08BN-SH-B-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.46	.39	.34
AT24C16B-PU-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.46	.45	.39
AT24C16B-TH-B-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.56	.48	.42
AT24C16BN-SH-B-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.45	.43	.38
AT24C16BY6-YH-TCT-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-DFN	.63	.62	.55
AT24C16BY6-YH-TTR-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-DFN	2080.00/5,000		
AT24C128B-PU-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.86	.85	.73
AT24C128B-TH-B-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.97	.91	.78
AT24C128BN-SH-B-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.80	.75	.66
AT24C256B-TH-B-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	1.59	1.55	1.35
AT24C512B-PU-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	1.76	1.69	1.46
AT24C512B-PU25-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-Dip	1.74	1.50	1.30
AT24C512B-TH-B-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	1.86	1.80	1.56
AT24C512B-TH25-B-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-TSSOP	1.76	1.63	1.41
AT24C512BN-SH-B-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	1.76	1.50	1.30
AT24C512BN-SH25-B-ND	512K (64Kx8) Serial EEPROM, 2.5V to 5.5V	8-SOIC	1.74	1.45	1.25
AT24C512BN-SH-TCT-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	1.76	1.50	1.30
AT24C512BN-SH-TTR-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	3993.60/4,000		
AT24C512BN-SH25-TCT-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	1.74	1.45	1.25
AT24C512BN-SH25-TTR-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	3888.00/4,000		
AT24C512BW-SH-B-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	1.81	1.75	1.51
AT24C512BW-SH25-B-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	1.78	1.69	1.46
AT24C1024B-PU-ND	1M (128Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	3.91	3.12	2.71
AT24C1024B-PU25-ND	1M (128Kx8) Serial EEPROM, 2.5V to 5.5V	8-Dip	4.30	3.44	2.98
AT24C1024B-TH-B-ND	1M (128Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	3.70	3.35	2.91
AT24C1024B-TH25-B-ND	1M (128Kx8) Serial EEPROM, 2.5V to 5.5V	8-TSSOP	3.82	3.71	3.22
AT24C1024BN-SH-B-ND	1M (128Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	3.57	3.29	2.85
AT24C1024BN-SH25-B-ND	1M (128Kx8) Serial EEPROM, 2.5V to 5.5V	8-SOIC	3.57	3.30	2.86
AT24C1024BW-SH-B-ND	1M (128Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	4.10	3.99	3.46
AT24C1024BW-SH25-B-ND	1M (128Kx8) Serial EEPROM, 2.5V to 5.5V	8-SOIC	3.96	3.85	3.33
AT34C02B-10TU-1.7-ND	2K (256x8) Serial EEPROM, 1.7V	8-TSSOP	.33	.32	.30
AT34C02C-TH-B-ND	2K (256x8) Serial EEPROM, 1.7V	8-TSSOP	.47	.38	.33
AT34C02CN-SH-B-ND	2K (256x8) Serial EEPROM, 1.7V	8-SOIC	.43	.35	.31
SPI Serial Interface EEPROMs					
AT25010A-10PU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.48	.45	.42
AT25010A-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.56	.49	.45
AT25010AN-10SU2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.43	.41	.38
AT25020A-10PU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.53	.50	.46
AT25020A-10TU-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.56	.48	.45
AT25020AY110YU1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-MAP	.34	.33	.32
AT25040A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.62	.59	.55
AT25040A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.67	.64	.59
AT25040A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.60	.57	.52
AT25080-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.60	1.54	1.48
AT25080A-10PU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.36	.35	.34
AT25080A-10PU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.35	.34	.33
AT25080A-10TU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.44	.43	.41
AT25080A-10TU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.43	.42	.40
AT25080B-PU-ND	8K (1024x8) Serial EEPROM, 1.8V to 5.5V*	8-PDIP	.62	.44	.41
AT25080B-TH-B-ND	8K (1024x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.84	.61	.56
AT25160A-10TU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.47	.45	.44
AT25160B-PU-ND	16K (2048x8) Serial EEPROM, 1.8V to 5.5V*	8-PDIP	.71	.50	.47
AT25320AN-10SU2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.48	.47	.45
AT25FS010N-SH27-B-ND	1M (128Kx8) SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	.68	.61	.56
AT25DF041A-MH-Y-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-UDFN	1.29	1.04	.90
AT25DF041A-MHF-Y-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-UDFN	1.40	1.14	.97
AT25DF041A-SH-B-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.08	.88	.75
AT25DF041A-SHF-B-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.18	.96	.83
AT25DF041A-SSH-B-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.08	.88	.75
AT25DF041A-SSHF-B-ND	4M SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.18	.96	.83
AT25DF081-SSHN-B-ND	8M SPI Serial Flash Memory, 1.65V to 1.95V*	8-SOIC	1.61	1.30	1.12
AT93C46E-PU-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.34	.30	.25
AT93C46E-TH-B-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.37	.32	.28
AT93C46EN-SH-B-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.32	.29	.24
AT93C46D-PU-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.32	.28	.23
AT93C46D-TH-B-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.32	.30	.25
AT93C46DN-SH-B-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.31	.26	.23
AT93C46DY6-YH-TCT-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	.45	.36	.31
AT93C46DY6-YH-TTR-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	1260.00/5,000		
AT93C56A-10PU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.40	.39	.34
AT93C56A-10TU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.51	.41	.36
AT93C56A-10TU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.51	.41	.36
AT93C56AW-10SU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.45	.37	.32
AT93C56AY6-10YH-1.8CT-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	.55	.54	.46
AT93C56AY6-10YH-1.8TR-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	1768.00/5,000		
AT93C66A-10PU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.46	.45	.39
AT93C66A-10PU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.46	.45	.39
AT93C66A-10TU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.58	.48	.42
AT93C66A-10TU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.56	.48	.42
AT93C66A-10SU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.45	.43	.38
AT93C66A-10SU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.45	.43	.38
AT93C86A-10PU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.58	.57	.49
AT93C86A-10TU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.67	.61	.52
AT93C86A-10TU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.65	.61	.52
AT93C86A-10SU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.56	.55	.47
AT93C86A-10SU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.56	.55	.47

ATMEL SECURE MEMORY — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Cryptomemory					
AT88SC0104CA-SU-ND	1K (128x8) Serial EEPROM, 2.7V to 3.6V	8-SOIC	.82	.52	.46
AT88SC0204CA-PU-ND	2K (256x8) Serial EEPROM, 2.7V to 3.6V	8-PDIP	.95	.60	.53

ATMEL (Cont.) SECURE MEMORY — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT88SC0204CA-SU-ND	2K (256x8) Serial EEPROM, 2.7V to 3.6V	8-SOIC	.84	.53	.47
AT88SC0404CA-PU-ND	4K (512x8) Serial EEPROM, 2.7V to 3.6V	8-PDIP	.97	.61	.54
AT88SC0404CA-SU-ND	4K (512x8) Serial EEPROM, 2.7V to 3.6V	8-SOIC	.86	.54	.48
AT88SC0808CA-PU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 3.6V	8-PDIP	.99	.63	.56
AT88SC0808CA-SU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 3.6V	8-SOIC	.88	.56	.50
AT88SC3216C-PU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.78	1.13	1.00
AT88SC3216C-SU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.63	1.03	.92
AT88SC6416C-PU-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.81	1.14	1.01
AT88SC12816C-PU-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.83	1.15	1.02
AT88SC25616C-PU-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.87	1.18	1.05
AT88SC-DK1-ND	Development Kit for AT88SC Family	—	51.95	—	—
AT88SC-SDK1-ND	Development Kit for Smart Cards ***NEW!***	—	103.95	—	—
AT88SCRF-ADK2-ND	Keen + Development Kit	—	103.95	—	—

ATMEL EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Low Power Battery Voltage EPROMS					
AT27BV256-70JU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP*	32-PLCC	4.37	3.64	3.12
AT27BV256-70TU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP*	28-TSOP	4.99	4.16	3.54
AT27BV010-90JU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP*	32-PLCC	5.23	4.37	3.74
AT27BV010-90TU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP*	32-TSOP	5.86	4.89	4.19
AT27BV020-90TU-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP*	32-TSOP	7.87	6.58	5.63
AT27BV040-12JI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	5.20	5.00	4.80
AT27BV040-12TI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-TSOP	5.59	5.38	5.16
AT27BV040-12VI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-VSOP	5.59	5.38	5.16
Low Power Low Voltage EPROMS					
AT27LV256A-70RC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	2.15	2.07	1.98
AT27LV256A-70RI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	2.28	2.19	2.10
AT27LV256A-70TI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-TSOP	2.47	2.38	2.28
AT27LV512A-90JU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	32-PLCC	3.80	3.18	2.71
AT27LV512A-90TU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	28-TSOP	4.42	3.70	3.18
AT27LV520-90XU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	20-TSSOP	2.77	2.67	2.56
AT27LV010A-90JI-ND	1M (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	2.86	2.75	2.64
AT27LV020A-90TI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-TSOP	4.10	3.94	3.78
AT27LV020A-90VI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-VSOP	4.10	3.94	3.78
AT27LV020A-12JU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP*	32-PLCC	6.18	5.16	4.41
AT27LV020A-12TU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP*	32-TSOP	7.03	5.68	4.86
AT27LV040A-90JU-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP*	32-PLCC	9.59	7.75	6.64
AT27LV040A-12VI-ND	4M (512Kx8) CMOS EPROM 3.0V 120nS OTP	32-VSOP	5.20	5.00	4.80
5V EPROMS					
AT27C256R-45JU-ND	256K (32Kx8) CMOS EPROM 45nS OTP*	32-PLCC	3.64	3.04	2.60
AT27C256R-45TC-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C256R-70JU-ND	256K (32Kx8) CMOS EPROM 70nS OTP*	32-PLCC	2.91	2.44	2.08
AT27C256R-70PU-ND	256K (32Kx8) CMOS EPROM 70nS OTP*	28-Dip	2.91	2.44	2.08
AT27C512R-45JU-ND	512K (64Kx8) CMOS EPROM 45nS OTP*	32-PLCC	4.06	3.40	2.91
AT27C512R-45PU-ND	512K (64Kx8) CMOS EPROM 45nS OTP*	28-Dip	4.06	3.40	2.91
AT27C512R-70JU-ND	512K (64Kx8) CMOS EPROM 70nS OTP*	32-PLCC	3.33	2.78	2.39
AT27C512R-70PU-ND	512K (64Kx8) CMOS EPROM 70nS OTP*	28-Dip	3.33	2.78	2.39
AT27C516-45VI-ND	512K (32Kx16) CMOS EPROM 45nS OTP	40-VSOP	3.25	3.13	3.00
AT27C010-45JU-ND	1M (128Kx8) CMOS EPROM 45nS OTP*	32-PLCC	4.51	3.77	3.23
AT27C010-45TU-ND	1M (128Kx8) CMOS EPROM 45nS OTP*	32-TSOP	5.14	4.30	3.68
AT27C010-70JU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-PLCC	3.79	3.17	2.71
AT27C010-70PU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-Dip	3.79	3.17	2.71
AT27C010-70TU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-TSOP	4.41	3.69	3.16
AT27C1024-45JU-ND	1M (64Kx16) CMOS EPROM 45nS OTP*	44-PLCC	5.68	4.75	4.06
AT27C1024-70JU-ND	1M (64Kx16) CMOS EPROM 70nS OTP*	44-PLCC	4.95	4.14	3.54
AT27C1024-70PU-ND	1M (64Kx16) CMOS EPROM 70nS OTP*	40-Dip	4.95	4.14	3.54
AT27C020-55JU-ND	2M (256Kx8) CMOS EPROM 55nS OTP*	32-PLCC	5.51	4.61	3.95
AT27C020-55PU-ND	2M (256Kx8) CMOS EPROM 55nS OTP*	32-Dip	5.51	4.61	3.95
AT27C020-90JU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-PLCC	5.10	4.26	3.64
AT27C020-90PU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-Dip	5.10	4.26	3.64
AT27C020-90TU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-TSOP	5.72	4.78	4.09
AT27C2048-55VC-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-VSOP	4.36	4.19	4.02
AT27C2048-90VI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	40-VSOP	4.10	3.94	3.78
AT27C040-70JU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-PLCC	7.97	6.66	5.70
AT27C040-70PU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-Dip	7.97	6.66	5.70
AT27C040-70TU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-TSOP	8.59	7.18	6.15
AT27C040-90JU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-PLCC	7.37	6.16	5.28
AT27C040-90PU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-Dip	7.37	6.16	5.28
AT27C040-90TU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-TSOP	8.00	6.68	5.72
AT27C4096-90JU-ND	4M (256Kx16) CMOS EPROM 90nS OTP*	44-PLCC	8.74	7.30	6.26
AT27C4096-90PU-ND	4M (256Kx16) CMOS EPROM 90nS OTP*	40-Dip	8.74	7.30	6.26
AT27C080-90JU-ND	8M (1Mx8) CMOS EPROM 90nS OTP*	32-PLCC	15.03	12.15	10.40

ATMEL PARALLEL EEPROM

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Parallel EEPROM: Battery-Voltage (2.7 to 3.6V)					
AT28BV16-25JC-ND	16K (2Kx8) 2.7V EEPROM, 250nS	32-PLCC	2.34	2.25	2.16
AT28BV64B-20JU-ND	64K (8Kx8) 2.7V EEPROM, 200nS*	32-PLCC	4.16	3.64	3.28
AT28BV64B-20PC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	13.00	12.50	12.00
AT28BV64B-20TC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	13.13	12.63	12.12
AT28BV64B-20TU-ND	64K (8Kx8) 2.7V EEPROM, 200nS*	28-TSOP	4.32	3.80	3.44
AT28BV256-20PC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	15.21	14.63	14.04
AT28BV256-20SU-ND	256K (32Kx8) 2.7V EEPROM, 200nS*	28-SOIC	7.54	6.61	5.93
AT28BV256-20TU-ND	256K (32Kx8) 2.7V EEPROM, 200nS*	28-TSOP	7.54	6.61	5.93
Parallel EEPROM: Low-Voltage (3.0 to 3.6V)					
AT28LV010-20JU-ND	1M (128Kx8) 3.0V EEPROM, 200nS*	32-PLCC	39.26	34.53	30.94
AT28LV010-20TU-ND	1M (128Kx8) 3.0V EEPROM, 200nS*	32-TSOP	39.42	34.64	31.05
Parallel EEPROM: Standard Voltage (5.0V)					
AT28C64B-15JU-ND	64K (8Kx8) 5V EEPROM, 150nS*	32-PLCC	4.16	3.64	3.28
AT28C64B-15PU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-Dip	4.16	3.64	3.28
AT28C64B-15SU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-SOIC	4.32	3.80	3.44
AT28C64B-15TU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-TSOP	4.32	3.80	3.44
AT28HC64B-70SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	13.13	12.63	12.12
AT28HC64B-70TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	13.13	12.63	12.12
AT28HC64B-70TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	5.85	5.63	5.40

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

ATMEL (Cont.) PARALLEL EEPROM

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28HC64B-90JU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	4.86	3.80	3.44
AT28HC64B-90TU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	28-TSOP	5.20	4.01	3.59
AT28HC64B-12SU-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS*	28-SOIC	4.39	3.80	3.44
AT28C256-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS*	32-PLCC	6.49	5.20	4.68
AT28C256-15PU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-Dip	6.49	5.36	4.84
AT28C256-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-TSOP	6.67	5.36	4.84
AT28C256E-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS*	32-PLCC	7.12	6.24	5.62
AT28C256E-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-TSOP	7.12	6.24	5.62
AT28C256F-15JU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	32-PLCC	7.12	6.24	5.62
AT28C256F-15TU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	28-TSOP	7.12	6.24	5.62
AT28HC256-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	9.46	7.49	6.71
AT28HC256-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-SOIC	11.18	7.02	6.82
AT28HC256-12JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	32-PLCC	6.79	5.46	4.89
AT28HC256-12SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	28-SOIC	6.99	5.62	5.05
AT28HC256-12TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	28-TSOP	6.99	5.62	5.05
AT28HC256E-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	12.69	8.84	7.96
AT28HC256E-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-SOIC	12.69	8.84	7.96
AT28HC256F-90JU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	32-PLCC	10.09	8.84	7.96
AT28HC256F-90SU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	28-SOIC	10.41	8.84	7.96
AT28HC256F-90TU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	28-TSOP	10.54	8.84	7.96
AT28HC256F-12JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	32-PLCC	17.55	16.88	16.20
AT28HC256F-12SI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	7.28	7.00	6.72
AT28C010-12JU-ND	1M (128Kx8) 5V EEPROM, 120nS*	32-PLCC	31.50	20.49	18.41
AT28C010-12TU-ND	1M (128Kx8) 5V EEPROM, 120nS*	32-TSOP	31.82	20.65	18.52

ATMEL FLASH MEMORY

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Flash Memory: Single-Voltage (1.65V to 1.95V) Read and Write — RoHS Compliant				
AT49BV642D-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS	48-TSOP	4.84	3.92	3.63
AT49BV642DT-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS	48-TSOP	4.35	3.92	3.63
	Flash Memory: Battery-Voltage Single-Voltage Read and Write				
AT29BV040A-20JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS*	32-PLCC	5.22	4.23	3.62
AT29BV040A-25TC-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	3.16	3.04	2.92
AT49BV8192A-11CI-ND	8M (1Mx8 or 512Kx16) 2.7V Large Sector Flash, 110nS	48-CBGA	11.38	10.94	10.50
	Flash Memory: Standard Voltage (4.5 to 5.5V) Single-Voltage Read and Write				
AT29C512-70JU-ND	512K (64Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	2.52	2.04	1.74
AT29C010A-70JU-ND	1M (128Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	2.80	2.26	1.94
AT29C020-70JU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	3.72	3.01	2.57
AT29C020-70TU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS*	32-TSOP	3.72	3.01	2.57
AT49F512-70VI-ND	512K (64Kx8) 5V Flash, 70nS	32-VSOP	2.86	2.75	2.64
AT49F512-90VC-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	1.24	1.19	1.14
AT49F512-90VI-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	2.41	2.32	2.22
AT49F001-55VC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	3.59	3.45	3.32
AT49F001-55VI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	3.85	3.70	3.56
AT49F002ANT-55VU-ND	2M (256Kx8) 5V Flash, 55nS*	32-VSOP	.87	.84	.81
AT49F002T-70VC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	3.80	3.65	3.51
AT49F002T-70VI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	4.00	3.85	3.70
AT49F040-70VC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	6.19	5.95	5.72
AT49F040-70VI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	7.18	6.90	6.63
AT49F008AT-12TC-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 120nS	48-TSOP	9.17	8.82	8.46

ATMEL SERIAL DATAFLASH

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT26F004-MU-ND	4M Serial Firmware DataFlash, 2.7V*	8-QFN	.85	.82	.78
AT45DB011D-SH-B-ND	1M Serial DataFlash, 2.7V*	8-SOIC	.86	.70	.60
AT45DB011D-SSH-B-ND	1M Serial DataFlash, 2.7V*	8-SOIC	.86	.70	.60
AT45DB021D-MH-Y-ND	2M Serial DataFlash, 2.7V*	8-QFN	1.40	1.14	.97
AT45DB021D-SSH-B-ND	2M Serial DataFlash, 2.7V*	8-SOIC	1.08	.88	.75
AT45DB021D-SH-B-ND	2M Serial DataFlash, 2.7V*	8-SOIC	1.08	.88	.75
AT45DB041D-MU-ND	4M Serial DataFlash, 2.7V*	8-VDFN	1.61	1.30	1.12
AT45DB041D-MU-2.5-ND	4M Serial DataFlash, 2.5V*	8-VDFN	1.83	1.48	1.27
AT45DB041D-SSU-ND	4M Serial DataFlash, 2.7V*	8-SOIC	1.29	1.04	.90
AT45DB041D-SSU-2.5-ND	4M Serial DataFlash, 2.5V*	8-SOIC	1.40	1.14	.97
AT45DB041D-SU-ND	4M Serial DataFlash, 2.7V*	8-SOIC	1.29	1.04	.90
AT45DB041D-SU-2.5-ND	4M Serial DataFlash, 2.5V*	8-SOIC	1.40	1.14	.97
AT45DB081D-MU-ND	8M Serial DataFlash, 2.7V*	8-QFN	1.94	1.56	1.35
AT45DB081D-SSU-ND	8M Serial DataFlash, 2.7V*	8-SOIC	1.61	1.30	1.12
AT45DB081D-SSU-2.5-ND	8M Serial DataFlash, 2.5V*	8-SOIC	1.72	1.40	1.19
AT45DB081D-SU-ND	8M Serial DataFlash, 2.7V*	8-SOIC	1.61	1.30	1.12
AT45DB081D-SU-2.5-ND	8M Serial DataFlash, 2.5V*	8-SOIC	1.72	1.40	1.19
AT45DB161D-MU-ND	16M Serial DataFlash, 2.7V*	8-QFN	2.47	2.00	1.72
AT45DB161D-MU-2.5-ND	16M Serial DataFlash, 2.5V*	8-QFN	2.58	2.08	1.79
AT45DB161D-SU-ND	16M Serial DataFlash, 2.7V*	8-SOIC	2.26	1.82	1.56
AT45DB161D-SU-2.5-ND	16M Serial DataFlash, 2.5V*	8-SOIC	2.37	1.92	1.64
AT45DB161D-TU-ND	16M Serial DataFlash, 2.7V*	28-TSOP	2.47	2.00	1.72
AT45DB161D-TU-2.5-ND	16M Serial DataFlash, 2.5V*	28-TSOP	2.47	2.00	1.72
AT45DB321D-SU-ND	32M Serial DataFlash, 2.7V*	8-SOIC	3.66	2.81	2.71
AT45DB642D-CNU-ND	64M Serial DataFlash, Dual, 2.7V*	8-CASON	5.81	4.70	4.02
AT45DB642D-TU-ND	64M Serial DataFlash, Dual, 2.7V*	28-TSOP	6.13	4.96	4.25

EVERSPIN MEMORY — *RoHS Compliant*

EverSpin Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MR0A08BYS35	819-1002-ND	64Kx8-Bit 3.3V Async. 1MB MRAM 35nS	44-TSOP	14.50	11.50	11.00
MR0A16ACYS35	819-1005-ND	64Kx16-Bit 3.3V Async. 1MB MRAM 35nS	44-TSOP	20.33	16.13	15.43

EVERSPIN (Cont.) MEMORY — *RoHS Compliant*

EverSpin Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MR0A16AVYS35	819-1006-ND	64Kx16-Bit 3.3V Async. 1MB MRAM 35nS	44-TSOP	23.11	18.34	17.54
MR0A16AYS35	819-1007-ND	64Kx16-Bit 3.3V Async. 1MB MRAM 35nS	44-TSOP	18.50	14.68	14.04
MR1A16AVYS35	819-1009-ND	128Kx16-Bit 3.3V Async. 2MB MRAM 35nS	44-TSOP	29.11	23.72	21.56
MR1A16AYS35	819-1010-ND	128Kx16-Bit 3.3V Async. 2MB MRAM 35nS	44-TSOP	25.03	19.85	18.99
MR2A16ACYS35	819-1011-ND	256Kx16-Bit 3.3V Async. 4MB MRAM, 35nS	44-TSOP	33.43	27.24	24.76
MR2A16AVYS35	819-1012-ND	256Kx16-Bit 3.3V Async. 4MB MRAM, 35nS	44-TSOP	37.96	30.94	28.12
MR2A16AYS35	819-1013-ND	256Kx16-Bit 3.3V Async. 4MB MRAM, 35nS	44-TSOP	30.38	24.75	22.50
MR2A08ACYS35	819-1003-ND	512Kx8-Bit 3.3V Async. 4MB MRAM, 35nS	44-TSOP	28.89	23.54	21.40
MR2A08AYS35	819-1004-ND	512Kx8-Bit 3.3V Async. 4MB MRAM, 35nS	44-TSOP	26.87	21.89	19.90

ISSI INTEGRATED SILICON SOLUTION, INC. SDRAM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS42S16100C1-7TL	706-1016-ND	143MHz, 16Mb (512Kx16) SDRAM	50-TSOP	3.15	1.95	1.72
IS42S16100E-7BLI	706-1070-ND	143MHz, 16Mb (512Kx16)SDRAM	60-BGA	6.06	4.88	4.44
IS42S16100E-7TL	706-1071-ND	143MHz, 16Mb (512Kx16) SDRAM	50-TSOP	3.15	1.95	1.72
IS42S16100E-7TLI	706-1072-ND	143MHz, 16Mb (512Kx16) SDRAM	50-TSOP	3.96	2.05	1.64
IS42S16160B-7BL	706-1017-ND	143MHz, 256Mb (16Mx16) SDRAM	54-FBGA	11.52	7.68	6.40
IS42S16160B-7TL	706-1018-ND	143MHz, 256Mb (16Mx16) SDRAM	54-TSOP	9.94	6.48	5.40
IS42S16160B-7TLITR	706-1052-1-ND	143MHz, 256Mb (16Mx16) SDRAM	54-TSOP	12.40	8.99	7.99
IS42S16160B-7TLITR	706-1052-2-ND	143MHz, 256Mb (16Mx16) SDRAM	54-TSOP	9888.75/1,500		
IS42S16160D-7BL	706-1073-ND	143MHz, 256Mb (16Mx16) SDRAM	54-BGA	11.17	9.39	8.63
IS42S16160D-7TL	706-1074-ND	143MHz, 256Mb (16Mx16) SDRAM	54-TSOP	10.69	8.77	7.91
IS42S16400D-7TL	706-1019-ND	143MHz, 64Mb (4Mx16) SDRAM	54-TSOP	4.66	2.50	2.08
IS42S16400F-6TL	706-1075-ND	166MHz, 64Mb (4Mx16) SDRAM	54-TSOP	5.05	2.76	2.21
IS42S16400F-6TLI	706-1076-ND	166MHz, 64Mb (4Mx16) SDRAM	54-TSOP	5.73	3.31	2.65
IS42S16400F-7TL	706-1077-ND	143MHz, 64Mb (4Mx16) SDRAM	54-TSOP	4.81	3.07	2.80
IS42S16400F-7TLI	706-1078-ND	143MHz, 64Mb (4Mx16) SDRAM	54-TSOP	4.81	3.87	3.53
IS42S16800D-7TL	706-1020-ND	143MHz, 128Mb (8Mx16) SDRAM	54-TSOP	7.72	6.33	5.72
IS42S16800E-7TL	706-1064-ND	143MHz, 128Mb (8Mx16) SDRAM	54-TSOP	7.63	5.19	4.58
IS42S32160A-75BL	706-1061-ND	133MHz, 512Mb (16Mx32) SDRAM	90-BGA	25.00	18.75	17.50
IS42S32160A-75BLI	706-1062-ND	133MHz, 512Mb (16Mx32) SDRAM	90-BGA	29.25	22.50	21.00
IS42S32200E-7BLI	706-1080-ND	143MHz, 64Mb (2Mx32) SDRAM	90-BGA	8.40	5.25	4.38
IS42S32200E-7TL	706-1081-ND	143MHz, 64Mb (2Mx32) SDRAM	86-TSOP	5.85	3.90	3.49
IS42S32200E-7TLI	706-1082-ND	143MHz, 64Mb (2Mx32) SDRAM	86-TSOP	6.75	4.68	4.14
IS42S32400D-7BL	706-1022-ND	143MHz, 128Mb (4Mx32) SDRAM	90-FBGA	9.17	7.52	6.79
IS42S32400D-7TL	706-1023-ND	143MHz, 128Mb (4Mx32) SDRAM	86-TSOP	9.18	7.54	6.80
IS42S32400E-6TL	706-1069-ND	166MHz, 128Mb (4Mx32) SDRAM	86-TSOP	9.70	6.06	4.86
IS42S32800B-7BL	706-1024-ND	143MHz, 256Mb (8Mx32) SDRAM	90-BGA	16.50	12.00	10.69
IS42S32800B-7TL	706-1025-ND	143MHz, 256Mb (8Mx32) SDRAM	86-TSOPII	19.50	12.03	10.60
IS42S32800D-7BL	706-1083-ND	143MHz, 256Mb (8Mx32) SDRAM	90-BGA	16.06	10.95	9.13
IS42S32800D-7TL	706-1084-ND	143MHz, 256Mb (8Mx32) SDRAM	86-TSOP	14.30	10.40	9.43
IS42S81600E-7TL	706-1067-ND	143MHz, 128Mb (16Mx8) SDRAM	54-TSOP	7.59	6.22	5.62
IS42S83200D-7TL	706-1068-ND	143MHz, 256Mb (32Mx8) SDRAM	54-TSOP	11.16	7.91	7.28
IS43R16160B-5TL	706-1085-ND	256Mb (16Mx16) DDR SDRAM	66-TSOP	7.88	5.36	4.73
IS43R16160B-6TL	706-1086-ND	256Mb (16Mx16) DDR SDRAM	66-TSOP	7.50	5.10	4.50

ISSI INTEGRATED SILICON SOLUTION, INC. SERIAL EEPROM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS93C66A-2GRLI	706-1051-5-ND	4Kb (512x8) Serial EEPROM	8-SOIC	.80	.40	.34

ISSI INTEGRATED SILICON SOLUTION, INC. SRAM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS61C256AL-12JLI	706-1030-ND	256Kb (32Kx8) HS Async. SRAM	28-SOJ	2.21	1.31	1.16
IS61C256AL-12TLI	706-1031-ND	256Kb (32Kx8) HS Async. SRAM	28-TSOP	2.21	1.31	1.16
IS61C1024AL-12JLI	706-1028-ND	1Mb (128x8) High Speed Async. SRAM	32-SOJ	3.77	2.34	2.12
IS61C1024AL-12KLI	706-1029-ND	1Mb (128x8) High Speed Async. SRAM	32-SOJ	3.77	2.34	2.12
IS61C1024AL-12TLI	706-1087-ND	1Mb (128x8) HS Async. SRAM	32-TSOP	3.77	2.34	2.12
IS61C5128AS-25TLI	706-1059-ND	4Mb (512Kx8) HS Async. SRAM	32-TSOP	6.50	4.33	3.88
IS61C5128AS-25QLI	706-1060-5-ND	4Mb (512Kx8) HS Async. SRAM	32-SOP	6.75	4.68	4.14
IS61C6416AL-12KLI	706-1088-5-ND	1Mb (64Kx16) HS Async. SRAM	44-SOJ	3.77	2.34	2.12
IS61C6416AL-12TLI	706-1089-ND	1Mb (64Kx16) HS Async. SRAM	44-TSOP	3.77	2.34	2.12
IS61C25616AS-25TLI	706-1058-ND	4Mb (256Kx16) HS Async. SRAM	44-TSOP	5.72	3.81	3.41
IS61LF6436A-8.5TQLI	706-1096-ND	2Mb (64Kx36) Sync. Flow-Through SRAM	100-TQFP	9.94	8.16	7.36
IS61LF12836A-7.5TQLI	706-1091-ND	4Mb (128Kx36) Sync. Flow-Through SRAM	100-TQFP	12.15	8.64	7.83
IS61LF25618A-7.5TQLI	706-1092-ND	4Mb (256Kx18) Sync. Flow-Through SRAM	100-TQFP	9.76	8.22	7.55
IS61LF51218A-7.5TQLI	706-1094-ND	9Mb (256Kx36) Sync. Flow-Through SRAM	100-TQFP	20.00	15.00	14.00
IS61LP6432A-133TQLI	706-1097-ND	2Mb (64Kx32) Sync. Flow-Through SRAM	100-TQFP	11.16	7.91	7.28
IS61LPS12836A-200TQLI	706-1098-ND	4Mb (128Kx36) Sync. Pipelined, Single Cycle Deselect SRAM	100-TQFP	12.15	8.64	7.83
IS61LPS25636A-200TQLI	706-1099-ND	9Mb (256Kx36) Sync. Pipelined, Single Cycle Deselect SRAM	100-TQFP	20.00	15.00	14.00
IS61LPS51236A-200TQLI	706-1100-ND	18Mb (512Kx36) Sync. Pipelined, Single Cycle Deselect SRAM	100-TQFP	29.25	22.50	21.00
IS61LV12816L-10TL	706-1033-ND	2Mb (128Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOP	6.45	4.30	3.85
IS61LV25616AL-10BLI	706-1034-ND	4Mb (256Kx16) High Speed Async. SRAM with 3.3V Supply	48-MBGA	7.76	4.94	4.52
IS61LV25616AL-10TL	706-1035-ND	4Mb (256Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOP	6.86	4.57	4.10
IS61LV256AL-10JLI	706-1036-ND	256Kb (32Kx8) Low Volt. Async. SRAM	28-SOJ	2.21	1.31	1.16
IS61LV256AL-10TLI	706-1037-ND	256Kb (32Kx8) Low Volt. Async. SRAM	28-TSOP	2.21	1.31	1.16

* *RoHS Compliant*

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(Continued)

ISSI Integrated Silicon Solution, Inc. *(Cont.)* SRAM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS61LV5128AL-10TLI	706-1038-ND	4Mb (512Kx8) HS Async. SRAM	44-TSOP	6.88	4.76	4.21
IS61LV6416L-10TL	706-1039-ND	1Mb (64Kx16) HS Async. SRAM with 3.3V Supply	44-TSOP	3.68	2.48	2.08
IS61NLP12836B-200TQLI	706-1101-ND	4Mb (128Kx36) Sync. Pipeline No Wait State Bus SRAM	100-TQFP	9.76	8.22	7.55
IS61NLP25636A-200TQLI	706-1102-ND	9Mb (256Kx36) Sync. Pipeline No Wait State Bus SRAM	100-TQFP	20.00	15.00	14.00
IS61NLP51236-200TQLI	706-1103-ND	18Mb (512Kx36) Sync. Pipeline No Wait State Bus SRAM	100-TQFP	29.25	22.50	21.00
IS61WV3216BLL-12TLI	706-1057-ND	512Kb (32Kx16) HS Async. SRAM	44-TSOP	3.45	2.13	1.88
IS61WV5128BLL-10BLI	706-1063-ND	4Mb (512Kx8) HS Async. SRAM	36-MBGA	6.25	4.33	3.83
IS61WV6416BLL-12TLI	706-1040-ND	1Mb (64Kx16) HS Async. SRAM	44-TSOP	3.45	2.13	1.88
IS61WV10248BLL-10TLI	706-1056-ND	8Mb (1Mx8) HS Async. SRAM	48-TSOP	17.22	12.71	11.69
IS61WV102416BLL-10MLI	706-1054-ND	16Mb (1Mx16) HS Async. SRAM	48-MBGA	24.70	18.53	17.29
IS61WV102416BLL-10TLI	706-1055-ND	16Mb (1Mx16) HS Async. SRAM	48-TSOP	24.00	18.00	16.80
IS61WV25616BLL-10BLI	706-1104-ND	4Mb (256Kx16) HS Async. SRAM	48-MBGA	6.25	4.33	3.83
IS61WV25616BLL-10TL	706-1105-ND	4Mb (256Kx16) HS Async. SRAM	44-TSOP	5.72	3.81	3.41
IS61WV25616BLL-10TLI	706-1106-ND	4Mb (256Kx16) HS Async. SRAM	44-TSOP	6.11	4.07	3.65
IS61WV51216BLL-10TLI	706-1107-ND	8Mb (512Kx16) HS Async. SRAM	44-TSOP	17.22	12.71	11.69
IS62C256AL-45TLI	706-1109-ND	256Kb (32Kx8) LP Async. SRAM	28-TSOP	2.21	1.31	1.16
IS62C256AL-45ULI	706-1043-ND	256Kb (32Kx8) LP Async. SRAM	28-SOP	2.21	1.31	1.16
IS62C1024AL-35QLI	706-1041-ND	1Mb (128Kx8) LP Async. SRAM	32-SOP	3.77	2.34	2.12
IS62C1024AL-35TLI	706-1042-ND	1Mb (128Kx8) LP Async. SRAM	32-TSOP	3.77	2.34	2.12
IS62LV256AL-45TLI	706-1044-ND	256Kb (32Kx8) LP Async. SRAM	28-TSOP	2.21	1.31	1.16
IS62LV256AL-45ULI	706-1110-5-ND	256Kb (32Kx8) LP Async. SRAM	28-SOP	2.21	1.31	1.16
IS62WV1288BLL-55HLI	706-1046-ND	1Mb (128Kx8) Ultra LP Async. SRAM	32-STSOP	3.00	1.85	1.63
IS62WV1288BLL-55TLI	706-1111-ND	1Mb (128Kx8) Ultra LP Async. SRAM	32-TSOP	3.30	2.04	1.80
IS62WV2568BLL-55TLI	706-1112-ND	2Mb (256Kx8) Ultra LP Async. SRAM	32-TSOP	4.31	2.78	2.47
IS62WV5128BLL-55HLI	706-1114-ND	4Mb (512Kx8) Ultra LP Async. SRAM	32-STSOP	7.88	5.36	4.73
IS62WV5128BLL-55T2LI	706-1115-ND	4Mb (512Kx8) Ultra LP Async. SRAM	32-TSOPII	7.88	5.36	4.73
IS62WV6416BLL-55TLI	706-1116-ND	1Mb (64Kx16) Ultra LP Async. SRAM	44-TSOPII	3.63	2.25	2.04
IS62WV12816BLL-55TLI	706-1045-ND	2Mb (128Kx16) Ultra LP Async. SRAM	44-TSOP	4.20	2.70	2.40
IS62WV25616BLL-55TLI	706-1047-ND	4Mb (256Kx16) Ultra LP Async. SRAM	44-TSOP	7.09	5.14	4.57
IS62WV51216BLL-55BLI	706-1113-ND	8Mb (512Kx16) Ultra LP Async. SRAM	48-MBGA	11.25	8.15	7.25
IS62WV51216BLL-55TLI	706-1048-ND	8Mb (512Kx16) Ultra LP Async. SRAM	44-TSOP	11.25	8.15	7.25
IS63LV1024L-12JL	706-1049-ND	1Mb (128Kx8) High Speed Async. SRAM 3.3V Revolutionary Pinout	32-SOJ	3.80	2.36	2.14
IS63WV1024BLL-12TLI	706-1118-ND	1Mb (128Kx8) HS Async. SRAM	32-TSOP	3.45	2.13	1.88

SanDisk DiskOnChip G4 — *RoHS Compliant*

SanDisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD8832-D1G-V18-X-P	585-1148-1-ND	MDoc, G4, 1Gb	69-FBGA	14.00
MD8832-D1G-V18-X-P	585-1148-2-ND	MDoc, G4, 1Gb	69-FBGA	11800.00/1,000

SanDisk ADAPTER

SanDisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
BGA7X10-ZIF-ADPT	585-1002-ND	Adapter for BGA 7x10	—	76.70

nuvoTon WinPot™ DIGITAL POTENTIOMETER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
WMS7130010S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-SOIC	2.71	1.61	1.35
WMS7170010P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 10KΩ	8-Dip	2.71	1.61	1.35
WMS7202050P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 50KΩ	14-Dip	5.31	3.27	2.90

nuvoTon I/O CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
87363F2-D-ND	LPC SuperI/O, with MIDI and Game Ports, Extended Wake-Up and Protection	128-PQFP	4.95	3.05	2.70
97338F1/C1-ND	ACPI 1.0 and PC98/99 Super I/O	100-PQFP	8.64	5.92	5.24

winbond MEMORY — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Serial Flash				
W25Q16BVSFIG-ND	16M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	16-SOIC	2.75	1.63	1.37
W25Q16BVSSIG-ND	16M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	8-SOIC	2.54	1.50	1.27
W25Q64BVSFIG-ND	64M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	16-SOIC	5.94	3.66	3.24
W25Q64BVZEIG-ND	64M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	8-WSON	6.00	3.70	3.27
W25Q80BVDAIG-ND	8M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	8-PSIP	2.37	1.40	1.18
W25Q80BVSSIG-ND	8M-Bit spiFlash®, 4Kb Sectors, Dual/Quad SPI* ***NEW!***	8-SOIC	2.02	1.20	1.01
W25X10BVSNIG-ND	1M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-SOIC	1.25	.74	.63
W25X20BVSNIG-ND	2M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-SOIC	1.68	.93	.76
W25X40BVDAIG-ND	4M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-PDIP	1.95	1.15	.97
W25X40BVSNIG-ND	4M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-SOIC	2.00	1.11	.91
W25X40BVSSIG-ND	4M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-SOIC	1.74	1.03	.87
W25X40BVZPIG-ND	4M-Bit spiFlash®, 4Kb Sectors, Dual SPI* ***NEW!***	8-WSON	1.95	1.15	.97
	NEW! SDRAM NEW!				
W9864G6IH-6-ND	64MB, 166MHz SDRAM	54-TSOPII	2.40	1.42	1.20
W9412G6IH-5-ND	128MB, DDR-400 SRAM	66-TSSOPII	3.24	2.00	1.77
W9812G6IH-6-ND	128MB, 166MHz SDRAM	54-TSOPII	3.21	1.98	1.75
W9425G6EH-5-ND	256MB, DDR-400 SRAM	66-TSSOPII	4.71	2.90	2.57
W9725G6IB-25-ND	256MB, DDR2-800 SDRAM	84-WBGA	5.04	3.11	2.75
W9825G6EH-6-ND	256MB, 166MHz SDRAM	54-TSOPII	5.61	3.46	3.06
W9751G6IB-25-ND	512MB, DDR2-800 SDRAM	84-WBGA	6.09	3.75	3.32
W971GG6JB-25-ND	1G, DDR2-800 SDRAM	84-WBGA	9.75	6.68	5.91

Melexis Microelectronic Integrated Systems Digi-Reel® SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EVB90308-ND	Demo Kit for MLX90308 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software, and (5) 90308 Samples	—	160.00	—	—
EVB90314-ND	Demo Kit for MLX90314 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software and (5) 90314 Samples	—	160.00	—	—
EVB90316-DC-ND	Evaluation Board for MLX90316-DC	—	29.00	—	—
EVB90316-GO-ND	Evaluation Board for MLX90316-GO	—	29.00	—	—
EVB90609L-N2-ND	Evaluation Board for MLX90609-N2* ***NEW!***	—	109.00	—	—
EVB90614-ND	Evaluation Board for MLX90614 Infrared Thermometer Module, USB Cable, Software, and (4) 96014 Samples*	—	218.00	—	—
DVK91205-ND	Evaluation Board for MLX91205KDC-LB*	—	65.00	—	—
MLX10801RLD-ND	Power Automotive LED Driver*	8-MLPD	5.29	3.70	2.57
MLX10803KDCCT-ND	High Power Constant Current LED Driver*	8-SOIC	2.95	2.07	1.43
MLX10803KDCTR-ND	High Power Constant Current LED Driver*	8-SOIC	2725.00/2,500		
MLX75303EXE-ND	Optical Switch Sensor*	10-DFN	2.08	1.49	1.19
MLX90217LUA-ND	Hall Effect Geartooth Speed Sensor	UA/TO-92 (flat)	7.43	4.23	3.01
MLX90247ESF-DSA-ND	Thermopile with On-Chip PTC Thermistor	TO-39	17.12	10.13	5.99
MLX90248ESECT-ND	CMOS Omnipolar™ High Sensitivity MPU Hall Switch*	TSOT-23	1.71	.99	.59
MLX90248ESETR-ND	CMOS Omnipolar™ High Sensitivity MPU Hall Switch*	TSOT-23	1149.00/3,000		
MLX90308LDF-ND	Programmable Sensor Interface	16-SOIC	34.10	19.71	11.66
MLX90316EDCCT-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	11.99	7.45	5.21
MLX90316EDCTR-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	7358.01/2,600		
MLX90316EGOCT-ND	Triaxis™ Rotary Position Sensor*	16-TSSOP	22.62	14.05	9.84
MLX90316EGOTR-ND	Triaxis™ Rotary Position Sensor*	16-TSSOP	24559.98/4,000		
MLX90316KDCCT-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	12.27	7.62	5.33
MLX90316KDCTR-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	7540.00/2,600		
MLX90316KDC-PPA-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	13.63	8.46	5.93
MLX90316KDC-PPD-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	13.63	8.46	5.93
MLX90316KDC-SPICT-ND	Triaxis™ Rotary Position Sensor*	8-SOIC	12.27	7.62	5.33
MLX90316KGO-ND	Triaxis™ Rotary Position Sensor*	16-TSSOP	23.44	14.55	10.19
MLX90316LDC-ND	Triaxis™ Rotary Position Sensor* ***NEW!***	8-SOIC	12.54	7.79	5.45
MLX90333KDC-ND	3D-Joystick Position Sensor	8-SOIC	12.67	7.87	5.51
MLX90609EEA-N2-ND	5V, Angular Rate Sensor* ***NEW!***	CQFN-32	84.51	56.16	33.23
MLX90614ESF-AAA-ND	5V, Single Zone Infrared Thermometer*	TO-39	23.72	14.03	8.30
MLX90614ESF-ABA-ND	5V, Dual Zone Infrared Thermometer*	TO-39	37.22	22.02	13.03
MLX90614ESF-BAA-ND	3V, Single Zone Infrared Thermometer*	TO-39	23.72	14.03	8.30
MLX90614ESF-BBA-ND	3V, Dual Zone Infrared Thermometer*	TO-39	37.22	22.02	13.03
MLX90614ESF-BCA-ND	3V, Gradient Compensated Infrared Thermometer*	TO-39	29.80	17.63	10.43
MLX90614ESF-DAA-ND	3V, Medical Accuracy, Single Zone Infrared Thermometer*	TO-39	27.12	16.05	9.50
MLX90614ESF-DCA-ND	3V, Single Zone Infrared Thermometer* ***NEW!***	TO-39	32.84	19.43	11.50
MLX90615ESG-DAA-ND	3V, Medical Accuracy Infrared Thermometer*	TO-46	22.06	13.05	7.72
MLX91205KDC-HB-ND	Triaxis™ IMC Current Sensor* ***NEW!***	8-SOIC	10.49	6.52	4.56
MLX91205KDC-LB-ND	Triaxis™ IMC Current Sensor*	8-SOIC	10.49	6.52	4.56
PTC-04-90316-ND	Programmer for Hall Effect 90316	—	1450.00	—	—
TH3122.4 KDF-ND	K-Bus Transcvr. with Integrated Voltage Reg.* ***NEW!***	16-SOIC	11.01	6.36	3.77
TH8055JDC-ND	Single Wire CAN Transceiver* ***NEW!***	8-SOIC	4.61	2.67	1.58
TH8056KDC-ACT-ND	Single Wire CAN Transceiver*	14-SOIC	4.04	2.33	1.38
TH8056KDC-A8CT-ND	Single Wire CAN Transceiver*	8-SOIC	3.80	2.20	1.31
TH8056KDC-A8TR-ND	Single Wire CAN Transceiver*	8-SOIC	2200.00/2,500		
TH8062KDC-ND	Voltage Regulator with LIN Transceiver* ***NEW!***	8-SOIC	3.17	1.83	1.08
TH8082KDC-ND	SoloLIN Transceiver*	8-SOIC	3.17	1.83	1.08
US3881ESECT-ND	Hall Effect Latch, North Pole Active*	TSOT-3L	1.56	.91	.54
US3881ESETR-ND	Hall Effect Latch, North Pole Active*	TSOT-3L	1047.00/3,000		
US3881LSECT-ND	Hall Effect Latch, North Pole Active*	TSOT-3L	1.73	1.01	.60
US3881LSETR-ND	Hall Effect Latch, North Pole Active*	TSOT-3L	1161.00/3,000		
US4881ESECT-ND	Bipolar Hall Effect Switch*	SOT-23	1.64	.95	.57
US4881ESETR-ND	Bipolar Hall Effect Switch*	SOT-23	1101.00/3,000		
US4881LSECT-ND	Bipolar Hall Effect Switch*	SOT-23	1.82	1.06	.63
US4881LSETR-ND	Bipolar Hall Effect Switch*	SOT-23	1224.00/3,000		
US5881ESECT-ND	Unipolar Hall Effect Switch, North Pole Active*	SOT-23	1.90	1.10	.65
US5881ESETR-ND	Unipolar Hall Effect Switch, North Pole Active*	SOT-23	1272.00/3,000		
US5881LSECT-ND	Unipolar Hall Effect Switch, North Pole Active*	SOT-23	2.04	1.18	.70
US5881LSETR-ND	Unipolar Hall Effect Switch, North Pole Active*	SOT-23	1413.00/3,000		

SHARP MICROELECTRONICS OF THE AMERICAS MEMORY — *RoHS Compliant*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
F800BJHEPBTLT9	425-1879-ND	8M Bottom Boot Block Flash, 3.3V, 90nS	48-TSOP	6.38	4.85	4.21
F800BJHEPTTLT6	425-1880-ND	8M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	6.38	4.85	4.21
LHF00L28	425-1885-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	2.85	2.25	2.03
LHF00L30	425-1887-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	2.85	2.25	2.03
LH28F160BJHE-TTL90	425-1824-ND	16M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	16.82	13.28	11.95
LHF00L14	425-1883-ND	32M Top Boot Block Flash, 3V, 70nS	48-TSOP	5.23	4.13	3.72
LHF00L15	425-1884-ND	32M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	5.23	4.13	3.72
F640BFHEPBTL70A	425-1874-ND	64M Bottom Boot Block Flash, 3.3V 70nS	48-TSOP	19.00	14.44	12.54
F640BFHEPTTLHFA	425-1876-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	11.40	9.00	8.10
F640BFHEPTTL70A	425-1877-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	19.00	14.44	12.54
F128BFHTPBTL75A	425-1869-ND	128M Bottom Boot Block Flash, 3.3V, 75nS	56-TSOP	31.25	23.75	20.63

SHARP MICROELECTRONICS OF THE AMERICAS Digi-Reel® SMALL TFT DISPLAY GSIC/ASIC *RoHS Compliant*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
IR3E3126	425-2492-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	6.48	5.18	4.28
IR3E3126	425-2492-2-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	7899.50/2,500		
LZ9FC23	425-2496-ND	Timing Control IC for TFT-LCD Module	72-QFP	7.20	5.76	4.76
LZ9FD534	425-2495-1-ND	Timing Control IC for TFT-LCD Module	28-QFN	7.20	5.76	4.76

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

(Continued)

Panasonic® Voltage Detectors

Highly Reliable, Easy-to-Use CMOS LSI is for Voltage Detection

The MN1380 Series is a series of devices with functions for:

- Monitoring the power supply voltage supplied to microcomputers and to LSI systems
- Generating the RESET signal for carrying out initialization when the power supply is turned ON
- Preventing runaway in systems when the power supply voltage fluctuates. Recently, there has been an increase in the number of battery-driven products such as cordless telephones, notebook-type personal computers, etc. In these products, highly accurate monitoring of the power supply voltage is an important point in terms of system operation and data backup. While maintaining the voltage detection precision of similar voltage detection devices so far, the MN1380 Series of devices consumes 1/10 the current. In addition, users can choose from one of three output formats: CMOS output, N-channel open drain and inverted CMOS output.

TO-92

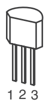

1. Out
2. VDD
3. GND

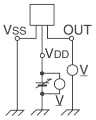

Mini-Type – TO-236/SC-59A

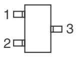

1. Out
2. VSS
3. VDD

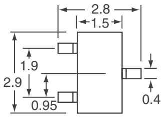

Item	Symbol	Rating	Unit
Drain Supply Voltage	VDD	7.0	V
Output Voltage	VO	-0.3 ~ VDD + 0.3	V
Operating Ambient Temperature	Ta	-20 ~ 70	°C
Storage Temperature	Tstg	-55 ~ 125	°C
Detection Voltage Hysteresis Max	ΔVD	300	mV

Output Type	Detection Voltage at Drain Supply (Trigger V)		Reset Time (µs)		Digi-Key Part No.	RoHS Compliant Digi-Key Part No.	Pricing		
	Min.	Max.	tOH	tOL			1	10	100
TO-92									
N-Channel Open Drain	3.0	3.3	4.0	35	—	MN13811SL-ND	1.02	8.48	67.87
CMOS Inverted	3.8	4.1	30	3.0	MN13812-Q-ND	—	1.02	8.48	67.87

Output Type	Detection Voltage at Drain Supply (Trigger V)		Reset Time (µs)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Box Pricing 3,000
	Minimum	Maximum	tOH	tOL		1	25	100		
TO-92 – RoHS Compliant										
CMOS	3.8	4.1	2.0	15.0	MN1381SQUCT-ND	.91	18.94	60.60	MN1381SQUTB-ND	394.00/M
	4.6	4.9	4.0	15.0	MN1381SUUCT-ND	.91	18.94	60.60	—	—
N-Channel Open Drain	2.2	2.4	2.5	160.0	MN13811SEUCT-ND	.91	18.94	60.60	MN13811SEUTB-ND	394.00/M
	3.0	3.3	2.0	15.0	MN13811SLUCT-ND	.91	18.94	60.60	MN13811SLUTB-ND	394.00/M
	3.8	4.1	4.0	35.0	MN13811SQUCT-ND	.91	18.94	60.60	—	—
CMOS Inverted	2.4	2.6	100.0	3.0	MN13812SGUCT-ND	.91	18.94	60.60	MN13812SGUTB-ND	394.00/M
	2.6	2.9	100.0	3.0	MN13812SJUCT-ND	.91	18.94	60.60	MN13812SJUTB-ND	394.00/M

Output Type	Detection Voltage at Drain Supply (Trigger V)		Reset Time (µs)		Digi-Key Part No.	RoHS Compliant Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	RoHS Compliant Digi-Key Part No.	Tape and Reel Pricing 3,000
	Minimum	Maximum	tOH	tOL			1	10	100			
Mini-Type												
CMOS	2.0	2.2	3.0	250.0	—	MN1382SCPCT-ND	1.02	8.48	67.87	—	—	—
	2.2	2.4	3.0	250.0	—	MN1382SEPCT-ND	1.02	8.48	67.87	—	—	—
	2.4	2.6	3.0	115.0	—	MN1382SGPCT-ND	1.02	8.48	67.87	—	—	—
	2.5	2.7	3.0	115.0	—	MN1382SHPCT-ND	1.02	8.48	67.87	—	—	—
	2.6	2.9	3.0	115.0	—	MN1382SJPCT-ND	1.02	8.48	67.87	—	MN1382SJPTR-ND	441.00/M
	3.0	3.3	2.0	15.0	—	MN1382SLPCT-ND	1.02	8.48	67.87	—	—	—
	3.2	3.5	2.0	15.0	MN1382MPCT-ND	MN1382SMPCT-ND	1.02	8.48	67.87	MN1382MPTR-ND	—	441.00/M
	3.4	3.7	2.0	15.0	MN1382NPCT-ND	MN1382SNPCT-ND	1.02	8.48	67.87	—	—	—
	3.6	3.9	4.0	15.0	—	MN1382SPPCT-ND	1.02	8.48	67.87	—	MN1382SPPTR-ND	441.00/M
	3.8	4.1	2.0	15.0	—	MN1382SQPCT-ND	1.02	8.48	67.87	—	—	—
	4.0	4.3	2.0	15.0	—	MN1382SRPCT-ND	1.02	8.48	67.87	—	—	—
	4.6	4.9	—	—	—	MN1382SUPCT-ND	1.02	8.48	67.87	—	—	—
N-Channel Open Drain	2.1	2.3	2.5	160.0	—	MN13821SDPCT-ND	1.02	8.48	67.87	—	MN13821SDPTR-ND	441.00/M
	2.2	2.4	2.5	160.0	—	MN13821SEPCT-ND	1.02	8.48	67.87	—	—	—
	2.4	2.6	3.0	100.0	—	MN13821SGPCT-ND	1.02	8.48	67.87	—	MN13821SGPTR-ND	441.00/M
	2.6	2.9	3.0	100.0	—	MN13821SJPCT-ND	1.02	8.48	67.87	—	—	—
	3.0	3.3	4.0	35.0	MN13821LPCT-ND	—	1.02	8.48	67.87	—	—	—
	3.2	3.5	4.0	35.0	—	MN13821SMPCT-ND	1.02	8.48	67.87	—	MN13821SMPTR-ND	441.00/M
	3.4	3.7	4.0	35.0	MN13821NPCT-ND	MN13821SNPCT-ND	1.02	8.48	67.87	MN13821NPTR-ND	—	441.00/M
	3.6	3.9	4.0	35.0	MN13821PPCT-ND	—	1.02	8.48	67.87	—	—	—
	3.8	4.1	4.0	35.0	—	MN13821SQPCT-ND	1.02	8.48	67.87	—	—	—
	4.0	4.3	4.0	35.0	—	MN13821SRPCT-ND	1.02	8.48	67.87	—	—	—
	4.2	4.5	4.0	35.0	—	MN13821SSPCT-ND	1.02	8.48	67.87	—	MN13821SSPTR-ND	441.00/M
	4.6	4.9	—	—	MN13821UPCT-ND	—	1.02	8.48	67.87	—	—	—
CMOS Inverted	2.1	2.3	230.0	3.0	MN13822DPCT-ND	—	1.02	8.48	67.87	MN13822DPTR-ND	—	441.00/M
	2.2	2.4	230.0	3.0	MN13822EPCT-ND	MN13822SEPCT-ND	1.02	8.48	67.87	—	MN13822SEPTR-ND	441.00/M
	2.3	2.5	230.0	3.0	MN13822FPCT-ND	—	1.02	8.48	67.87	MN13822FPTR-ND	—	441.00/M
	2.4	2.6	100.0	3.0	MN13822GPCT-ND	—	1.02	8.48	67.87	MN13822GPTR-ND	—	441.00/M
	2.5	2.7	100.0	3.0	MN13822HPCT-ND	—	1.02	8.48	67.87	MN13822HPTR-ND	—	441.00/M
	2.6	2.9	100.0	3.0	MN13822JPCT-ND	MN13822SJPCT-ND	1.02	8.48	67.87	—	—	—
	2.8	3.1	100.0	3.0	MN13822KPCT-ND	—	1.02	8.48	67.87	—	—	—
	3.0	3.3	30.0	3.0	MN13822LPCT-ND	MN13822SLPCT-ND	1.02	8.48	67.87	—	—	—
	3.2	3.5	30.0	3.0	MN13822MPCT-ND	—	1.02	8.48	67.87	MN13822MPTR-ND	—	441.00/M
	3.4	3.7	30.0	3.0	MN13822NPCT-ND	MN13822SNPCT-ND	1.02	8.48	67.87	MN13822NPTR-ND	—	441.00/M
	3.6	3.9	30.0	3.0	MN13822PPCT-ND	—	1.02	8.48	67.87	MN13822PPTR-ND	—	441.00/M
	3.8	4.1	30.0	3.0	MN13822QPCT-ND	—	1.02	8.48	67.87	—	—	—
	4.0	4.3	30.0	3.0	MN13822RPCT-ND	—	1.02	8.48	67.87	—	—	—
	4.2	4.5	30.0	3.0	MN13822SPCT-ND	MN13822SSPCT-ND	1.02	8.48	67.87	—	—	—
	4.6	4.9	—	—	MN13822UPCT-ND	—	1.02	8.48	67.87	—	—	—

SanDisk

iDiskOnChip

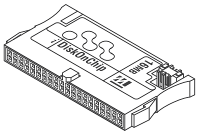

iDiskOnChip (iDOC) delivers extremely fast and easy integration, along with high performance and reliability. It offers built-in block device emulation without any software drivers. It can be used in any system with an IDE bus and with any operating system. iDiskOnChip continues the tradition with built-in error detection and correction code that corrects data errors on-the-fly.

Specifications: Operating Temperature: 0°C ~ 70°C

Capacity	IDE Connector	Alignment	Digi-Key Part No.	Price Each	SanDisk Part No.
32MB	40-Pin	Horizontal, Left Oriented	585-1056-ND	13.81	MD1160-D32
	40-Pin	Horizontal, Left Oriented	585-1168-ND◆	11.45	MD1160-D32-P
	40-Pin	Horizontal, Right Oriented	585-1179-ND◆	11.45	MD1170-D32-P
64MB	40-Pin	Horizontal, Left Oriented	585-1059-ND	15.10	MD1160-D64
	40-Pin	Horizontal, Right Oriented	585-1076-ND	15.10	MD1170-D64
	40-Pin	Horizontal, Right Oriented	585-1180-ND◆	12.86	MD1170-D64-P
128MB	40-Pin	Horizontal, Right Oriented	585-1181-ND◆	14.88	MD1170-D128-P
	40-Pin	Horizontal, Left Oriented	585-1170-ND◆	14.88	MD1160-D128-P
192MB	40-Pin	Vertical	585-1037-ND	43.39	MD1150-D192
256MB	40-Pin	Horizontal, Left Oriented	585-1055-ND	29.38	MD1160-D256
	40-Pin	Horizontal, Left Oriented	585-1171-ND◆	18.25	MD1160-D256-P
	44-Pin	Horizontal, Left Oriented	585-1176-ND◆	17.94	MD1161-D256-P
512MB	40-Pin	Horizontal, Left Oriented	585-1058-ND	49.21	MD1160-D512
	44-Pin	Horizontal, Left Oriented	585-1067-ND	48.97	MD1161-D512
768MB	40-Pin	Vertical	585-1043-ND	71.51	MD1150-D768
1.5GB	44-Pin	Horizontal, Left Oriented	585-1061-ND	131.57	MD1161-D1536

◆ ***RoHS Compliant***

IDE/SATA/SCSI Fast Flash Disks

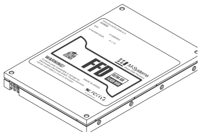

Fast Flash Disk (FFD) products provide rugged, high-performance and highly reliable data storage. They withstand extreme temperatures, shocks and vibrations, even in harsh conditions, without compromising on data integrity. FFD solid-state flash drives are a drop-in replacement for IDE, SATA and SCSI mechanical disks, eliminating seek time, latency and potential failures inherent in conventional rotating disks. FFD are available in commercial, enhanced and extended operating temperatures.

Series	Capacity	Digi-Key Part No.	Price Each	SanDisk Part No.
2.5" ULTRA ATA	1GB	585-1013-ND	867.43	FFD-25-UATA-1024-A
	8GB	585-1018-ND	1134.24	FFD-25-UATA-8192-A
	12GB	585-1014-ND	2755.30	FFD-25-UATA-12288-B
2.5" SERIAL ATA	1GB	585-1007-ND	868.21	FFD-25-SATA-1-A
	2GB	585-1010-ND	903.75	FFD-25-SATA-2-A
	4GB	585-1011-ND	963.53	FFD-25-SATA-4-A
	4GB	585-1204-ND◆	844.00	SDSCA-004G-000000
	8GB	585-1012-ND	1134.24	FFD-25-SATA-8-A
	8GB	585-1205-ND◆	965.28	SDSCA-008G-000000
	12GB	585-1008-ND	2755.30	FFD-25-SATA-12-B
	16GB	585-1009-ND	3038.50	FFD-25-SATA-16-B
	16GB	585-1203-ND◆	1440.78	SDSCA-016G-000000
IDE 4000 2.5"	3.5GB	585-1026-ND	199.68	IDE-4K-25-3584
ULTRA320 SCSI	4GB	585-1019-ND	2025.36	FFD35-U3S-4-T-P80
	4GB	585-1210-ND◆	1838.44	SD8NA-004G-000000

◆ ***RoHS Compliant***

uDiskOnChip

uDOC merges SanDisk's expertise in two worlds: The USB 2.0 high-speed interface and uDiskOnChip industry-standard flash for embedded systems. The result is industry's highest performance, uncompromising reliability and built-in security to encrypt data and code.

Capacity	Operating Temperature	Digi-Key Part No.	Price Each	SanDisk Part No.
1GB	0°C ~ 70°C	585-1085-ND	95.93	MD1665-D1024
	-40°C ~ 85°C	585-1086-ND	115.13	MD1665-D1024-X

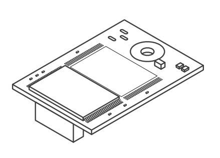

WINTEC INDUSTRIES

Memory Modules - Unbuffered

Package Size	Speed (MHz)	Memory Size Mega Bytes	Config. Mega Bits	Digi-Key Part No.	Price Each‡		Wintec Part No.
					1	10	
SDRAM							
168 DIMM	100	64	8x64	385-1002-ND	27.28	26.71	W9Q308647PA-222
	100	64	8x72	385-1003-ND	54.85	53.71	W9Q308727KD-222K
	100	64	8x72	385-1019-ND	54.85	53.71	W9Q308727KD-222
	100	128	16x64	385-1004-ND	54.82	53.68	W9Q316647LB-222
	100	128	16x72	385-1005-ND	101.15	99.05	W9Q316727KD-222K
	100	256	32x64	385-1006-ND	107.40	105.17	W9Q332647LB-222
	133	128	16x64	385-1014-ND	54.82	53.68	W9D316647LC-333
	133	256	32x64	385-1015-ND	102.82	100.68	W9D332647LA-333
144 SODIMM	133	128	16x64	385-1011-ND	53.60	52.49	W9V316647LA-333
DDR SDRAM							
184 DIMM	266	128	16x64	385-1000-ND	60.00	58.75	W4E216646LA-7.5
	266	256	32x64	385-1001-ND	110.16	107.87	W4E232646LA-7.5

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

NEW! Embedded Modems and Kits

Description	Digi-Key Part No.	Price Each‡		Wintec Part No.
		1	5	
SLM Series				
2nd Generation SLM Embedded Modem Series, 33.6Kbps	385-1042-ND	45.00	42.00	SLM2434
2nd Generation SLM Embedded Modem Series, 56Kbps download / 33.6Kbps upload	385-1043-ND	45.00	42.00	SLM2457
Evaluation Kit for SLM24xx	385-1046-ND	240.00	224.00	SLM24XXEVB
SL Series				
SL Embedded Modem Series, 33.6Kbps	385-1044-ND	48.00	44.80	SL2434SU
SL Embedded Modem Series, 56Kbps download / 33.6Kbps upload	385-1045-ND	48.00	44.80	SL2457SU
Evaluation Kit for SL24xx	385-1047-ND	240.00	224.00	SL24XXEVB

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Memory Cards

Package Size	Memory Size	Digi-Key Part No.	Price Each‡		Wintec Part No.
			1	5	
Compact Flash	1GB	385-1021-ND	24.38	22.75	W7CF001G1XA-H20PB-001.01
	2GB	385-1022-ND	37.88	35.35	W7CF002G1XA-H20PB-002.01
	4GB	385-1023-ND	64.50	60.20	W7CF004G1XA-H20PB-2Q2.01
	512MB	385-1024-ND	26.25	24.50	W7CF512M1XA-H30PB-002.02
	1GB	385-1025-ND	32.25	30.10	W7CF001G1XA-H30PB-002.02
	4GB	385-1027-ND	69.38	64.75	W7CF004G1XA-H30PB-2Q2.02
	2GB	385-1036-ND	42.38	39.55	W7CF002G1XA-H30PB-02D.03
	128MB	385-1037-ND ***NEW!***	22.50	21.00	W7CF128M1XA-H20PC-001.01
Secure Digital	512MB	385-1048-ND ***NEW!***	24.38	22.75	W7SD512M1XA-H60PB-002.02
	1GB	385-1050-ND ***NEW!***	28.13	26.25	W7SD001G1XA-H60PB-002.02
	2GB	385-1049-ND ***NEW!***	38.25	35.70	W7SD002G1XA-H60PB-02D.02
	4GB	385-1032-ND	69.38	64.75	W7SD004G1XA-H60PB-2Q2.01
Embedded USB	512MB	385-1033-ND	22.88	21.35	W7EU512M1XC-SM0PB-002.01
	1GB	385-1034-ND	27.38	25.55	W7EU001G1XC-SM0PB-002.01
	2GB	385-1035-ND	35.25	32.90	W7EU002G1XC-SM0PB-02D.01

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

NEW! Hard Drive Enclosures

Description	Digi-Key Part No.	Price Each‡		Wintec Part No.
		1	5	
FileMate 2.5" USB 2.0, Black	385-1038-ND	13.13	12.25	3FME2500GB-R
FileMate 2.5" USB 2.0, White	385-1039-ND	13.13	12.25	3FME2500GW-R
FileMate 3.5" e-SATA and USB 2.0, Black	385-1040-ND	28.88	26.95	3FME3B2TB-R
FileMate 3.5" e-SATA and USB 2.0, White	385-1041-ND	28.88	26.95	3FME3B2TW-R

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Micron

Memory Modules

Density	Package Size	Configuration Mega Bits	Speed	Data Rate MT/s	Digi-Key Part No.	Price Each‡ 1	10	25	Micron Technology Part No.
DDR SDRAM									
256MB	184-DIMM Unbuffered	32M x 64	PC3200	400	557-1342-ND◆	60.69	57.12	53.55	MT4VDDT3264AY-40BF1
	200-SODIMM	32M x 72	PC2700	333	557-1135-ND	60.32	56.67	53.93	MT9VDDT3272HG-335G2
	200-SODIMM	32M x 72	PC3200	400	557-1136-ND	55.70	52.43	49.16	MT9VDDT3272HG-40BG2
512MB	184-DIMM Unbuffered	64M x 72	PC2700	333	557-1137-ND	100.59	94.00	90.70	MT9VDDT6472AG-335D1
	184-DIMM Unbuffered	64M x 64	PC3200	400	557-1232-ND◆	86.94	81.51	77.44	MT8VDDT6464AY-40BF4
	184-DIMM Unbuffered	64M x 72	PC3200	400	557-1178-ND◆	94.08	88.20	83.79	MT9VDDT6472AY-40BF1
	200-SODIMM	64M x 64	PC2700	333	557-1294-ND◆	100.80	94.50	89.78	MT8VDDT6464HDY-335F2
1GB	184-DIMM Registered	128M x 72	PC3200	400	557-1233-ND◆	152.25	144.38	139.65	MT18VDDF12872Y-40BF1
	200-SODIMM	128M x 72	PC2700	333	557-1115-ND	244.64	231.99	227.01	MT18VDDF12872HG-335D1

◆ ***RoHS Compliant*** ‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Qimonda

DDR2 SDRAM Modules

Organization	Module Type	Module Height	Digi-Key Part No.	Price Each‡	Qimonda Part No.
1GB — Module Speed PC2-5300					
128Mx64	200-SODIMM	1.18"	675-1026-ND	59.28	HYS64T128021HDL-3S-B
128Mx72	240-DIMM	1.18"	675-1028-ND	60.00	HYS72T128000HR-3S-B
128Mx72	240-DIMM	1.18"	675-1030-ND	60.00	HYS72T128420HFA-3S-B

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Texas Instruments

NEW! Power Factor Correction (PFC) and Motor Control Development Kit

The High Voltage Motor Control and PFC Developer's Kit provides an easy, open source way to evaluate the Piccolo microcontroller and TI analog in a high voltage environment. A single Piccolo MCU controls the power factor correction (PFC) stage and the motor control stage. The PFC takes a line level AC input (approximately 110 ~ 240VAC) and outputs up to 750 watts of power, regulated by closed loop control.

The motor driver stage can be driven from either the PFC or from a separate power stage and accepts up to 400V and outputs up to 1.5 kilowatt of power. The motor driver stage can drive the three most common types of brushless motors, AC induction, brushless DC, and permanent magnet synchronous motors. The Piccolo microcontroller controls each type of motor using closed loop, sensorless control.

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
High Voltage PFC and Motor Control Developer's Kit	296-25715-ND	622.00	TMDSHVMTRPFCKIT
Accessories			
ACI Motor	296-25716-ND	310.48	HVACIMTR
Permanent Magnet Synchronous Motor	296-25717-ND	355.21	HVPMSMMTR
Brushless DC Motor	296-25718-ND	206.64	HVBLDCMTR

TOSHIBA
Leading Innovation >>>

Memory Cards

Description	Memory Size	Digi-Key Part No.	Price Each‡ 1	25	100
Secure Digital (SD)	1GB	SDM01GLF-ND	45.00	42.00	39.00

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Panasonic

PC Cards

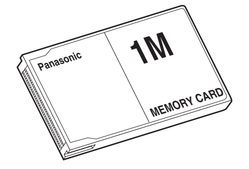

PCMCIA (Personal Computer Memory Card International Association) has jointly defined standard specifications for an IC memory card system interface. Now the IC memory card can be used as general-purpose media for exchanging data between systems.

SRAM Cards:

- 68 Pin JEIDA 4.2/PCMCIA Rel 2.1:
- Available with or without attribute memory
- Tool-less replaceable battery (CR2025)
- Contains a rechargeable sub-battery which provides data back-up for up to one hour during battery changes
- Type I Card

Flash Cards:

- 68 Pin Series 2 JEIDA 4.2/PCMCIA Rel 2.1: • Uses 8Mbit memory chips • Type I Card

Description	Digi-Key Part No.	Price Each
SRAM Card PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSR-ND	39.68
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSR-ND	45.23
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSR-ND	57.15
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSR-ND	81.18
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSR-ND	118.71
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSR-ND	193.50
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSR-ND	301.00
8Mx8/4Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSR-ND◆	666.40
SRAM Card with Attribute Memory PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSRC-ND	43.60
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSRC-ND◆	48.69
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSRC-ND◆	62.09
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSRC-ND◆	84.74
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSRC-ND	120.18
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSRC-ND	186.20
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSRC-ND◆	306.60
8Mx8/2Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSRC-ND◆	686.00
Flash Card, PCMCIA/JEIDA Standard, 68 Pins (Series 2) — RoHS Compliant		
10Mx8/5Mx16, 250ns, 150mA	BN-10MHF3CE-ND	366.80

◆ ***RoHS Compliant***

Portescap Stepper Motors

These stepper motors are very precise DC motors that move a specific degree of rotation with each pulse applied to its coils. Stepper motors can be controlled for either clockwise or counterclockwise rotation and can operate at very high speeds. Shaft speed is not affected by variations in torque. Unipolar motors have two coils wound on the same bobbin (4 coils total) where each winding is sequentially energized. Bipolar motors have only two windings and require a push-pull driver to operate. MNM is millinewton meter.

Operating Specifications:

- Operating Temperature Range: -20°C ~ 70°C • Bearing Type: Bronze sleeve • Lead Wires: 26AWG (22AWG for 23H series)

Fig. 1

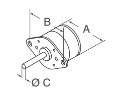

Fig. 2

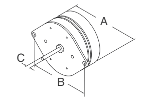

Fig. 3

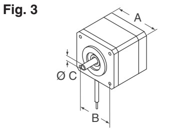

Fig.	Rated Voltage (VDC)	Type	Motor Size – mm A	B	C	Steps per Rev.	Step Angle (Degrees)	Holding Torque (1) (mNm/oz-in)	Digi-Key Part No.	Price Each	Portescap Part No.
1	5	Bipolar	15	20	1.5	20	18	3.9/.55	403-1000-ND	19.16	15M020D1B
	5	Unipolar	20	34.9	1.5	20	18	7.8/1.1	403-1001-ND	20.04	20M020D1U
	5	Unipolar	20	34.9	1.5	24	15	7.70/1.1	403-1018-ND	20.04	20M024D1U
	5	Bipolar	20	34.9	1.5	20	18	11.31/1.6	403-1002-ND	19.16	20M020D1B
	5	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1020-ND	20.04	26M024D1U
	12	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1003-ND	20.04	26M024B2U
	5	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1019-ND	20.04	26M048D1U
	12	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1004-ND	20.04	26M048B2U
	5	Bipolar	26	34.9	2	48	7.5	10.6/1.5	403-1005-ND	19.16	26M048B1B
	5	Unipolar	36	42	2	48	7.5	18.35/ 2.6	403-1021-ND	21.25	35M048B1U
	5	Unipolar	36	42	2	48	7.5	25/3.5	403-1022-ND	21.25	35L048B1U
	5	Bipolar	36	42	2	48	7.5	27.5/3.9	403-1006-ND	20.39	35L048B1B
	12	Unipolar	36	42	2	48	7.5	27.5/3.9	403-1007-ND	22.31	35L048B2U
	12	Unipolar	36	42	2	48	7.5	18.4/2.6	403-1008-ND	21.25	35M048B2U
2	5	Unipolar	42	49.5	3	48	7.5	66.2/9.4	403-1023-ND	22.01	42M048C1U
	5	Unipolar	42	49.5	3	48	7.5	49.4/7.0	403-1024-ND	22.25	42L048D1U
	5	Bipolar	42	49.5	3	48	7.5	87.5/12.4	403-1009-ND	20.89	42M048C1B
	12	Unipolar	42	49.5	3	48	7.5	73.4/10.4	403-1010-ND	22.01	42M048C2U
	12	Unipolar	42	49.5	3	48	7.5	50.8/7.2	403-1011-ND	22.01	42S048D2U
	5	Bipolar	42	49.5	3	100	3.6	49.4/7.0	403-1012-ND	20.89	42M100B1B
	12	Unipolar	42	49.5	3	100	3.6	45.2/6.4	403-1013-ND	22.01	42M100B2U
	5	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1014-ND	21.15	44M100D1B
	12	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1015-ND	22.01	44M100D2B
	5	Unipolar	55	66.7	6.35	48	7.5	102.4/14.5	403-1025-ND	23.35	55M048D1U
	5	Bipolar	55	66.7	6.35	48	6.3	122.2/17.3	403-1016-ND	22.25	55M048D1B
	12	Unipolar	55	66.7	6.35	48	6.3	102.4/14.5	403-1017-ND	23.35	55M048D2U
3	3.3	Bipolar	42.42	31	5	200	1.8	270/38	403-1036-ND‡	76.96	17H018D10B
	4.1	Bipolar	42.42	31	5	200	1.8	390/55	403-1037-ND‡	81.80	17H118D10B
	5.6	Bipolar	57.15	47.14	6.35	200	1.8	800/113	403-1038-ND‡	96.31	23H018D10B
	6.8	Bipolar	57.15	47.14	6.35	200	1.8	1300/184	403-1039-ND‡	105.84	23H118H10B

‡ High Torque **Note (1):** Holding Torque measured with rated voltage and 2 phases energized.

Geared Stepper Motors

Standard 7.5 degree Stepper Motors offered with gear reduction for extremely high torque and precision. Perfect replacement for DC geared motors where accuracy is needed.

Fig.	Rated Voltage (VDC)	Type	Output Step Angle	Gear Ratio Gearhead	Output Speed Shaft	Running Torque (Nm/oz-in)	Digi-Key Part No.	Price Each	Portescap Part No.
1	12	Unipolar	0.25	30:1	6.25RPM @ 100PPS	70.6mNm/10oz-in	403-1026-ND	38.21	26M048B2U-V31
2	5	Bipolar	0.15	50:1	6RPM @ 240PPS	.854/121	403-1027-ND	45.34	42M048C1B-Z36
3	12	Unipolar	0.75	10:1	30RPM @ 240PPS	.211/29.9	403-1029-ND	47.82	42M048C2U-R21
	12	Bipolar	0.75	10:1	30RPM @ 240PPS	.211/29.9	403-1028-ND	47.82	42M048C2B-R21

Dimensions in Inches (mm)

Fig. 1

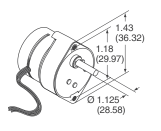

Fig. 2

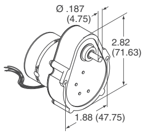

Fig. 3

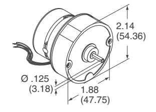

Digital Linear Actuators

Precise “In and Out” movements controlled by a stepper motor, these low-cost units provide industry-leading linear force positioning capability. An ideal linear actuator solution in medical equipment applications such as pumps, pipettes and scanners, as well as instrumentation and HVAC applications. These linear actuators are available in captive and non-captive versions, unipolar or bipolar coil construction, and industry-standard frame sizes.

Fig.	Rated Voltage (VDC)	Type	Shaft Type	Maximum Shaft Travel	Step Resolution	Digi-Key Part No.	Price Each	Portescap Part No.
1	12	Unipolar	NonCaptive	1.97”	.001”	403-1030-ND	43.50	20DAM10D2U-L
	12	Unipolar	NonCaptive	1.89”	.001”	403-1032-ND	57.13	26DBM10D2U-L
	12	Unipolar	NonCaptive	2.50”	.001”	403-1034-ND	65.36	35DBM10B2U-L
2	12	Unipolar	Captive	0.59”	.001”	403-1031-ND	47.65	20DAM10D2U-K
	12	Unipolar	Captive	0.52”	.001”	403-1033-ND	58.49	26DBM10D2U-K
	12	Unipolar	Captive	0.875”	.001”	403-1035-ND	69.06	35DBM10B2U-K

Fig. 1

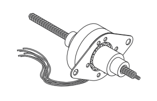

Fig. 2

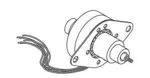

CRAMER COMPANY
Precision Timers and Motion Devices

AC/DC Geared Motors

105 Series AC Gear Motor:
Unidirectional operation assured by ball and slot “no-back” system. Motors listed are all clockwise rotation when facing the output shaft. Characteristics: Rotor Speed 600 RPM, 120VAC, 60Hz Coil, 2.7 Watts, -20°C ~ 55°C Operating Temperature. Motor develops 300oz-in. Torque starting and running at 1 RPM. To determine torque available on motors shown, divide 300oz-in by listed motor speed.

6100 Hysteresis Series Motor:
Provides smooth quiet performance and allows operation to a stall condition without damage or an increase in temperature. Perfect for HVAC controls, Automatic Teller Machines and other applications. Motors listed are all counter clockwise rotation when facing the output shaft.

800I Series DC Gear Motor:
Basic 2400 and 4800 armature speed used. Geartrain rating 30oz-in dynamic, 90oz-in static. Starting and running torque 60oz-in at 1 RPM. These ratings are conventionally stated for output geared to 1 RPM. Motor output speed will be higher if load is less than 30oz-in Voltages offered 12VDC and 24VDC. DC motors rotation are reversible by reversing polarity at terminals.

Fig. 1

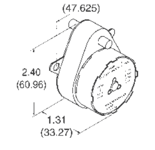

Fig. 2

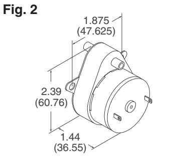

Flatted Round Shaft

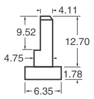

(Std. for all series except 6100 series)

Fig.	Volt.	RPM	Digi-Key Part No.	Price Each 1	10	50	Cramer Part No.
105 Series (CW Rotation)							
1	120 VAC	12	CRA101-ND	31.26	27.31	24.68	30551
		10	CRA102-ND	34.87	30.47	27.53	30543
		6	CRA103-ND	31.26	27.31	24.68	30544
		2	CRA104-ND	31.26	27.31	24.68	30545
		1	CRA105-ND	31.26	27.31	24.68	30546
		1/2	CRA106-ND	32.59	28.47	25.73	30547
6100 Hysteresis Series (CCW Rotation- Round shaft only)							
1	24 VAC	1	CRA207-ND	37.43	32.71	29.55	61068
		2	CRA210-ND	37.43	32.71	29.55	61081
		4	CRA209-ND	37.43	32.71	29.55	61140
	120 VAC	1	CRA208-ND	37.81	33.04	29.85	61069
800I Series							
2	12 VDC	1	CRA201-ND	46.55	40.67	36.75	30568
		10	CRA202-ND	46.55	40.67	36.75	30569
		30	CRA203-ND	46.55	40.67	36.75	30570
		60	CRA212-ND	46.55	40.67	36.75	30827
	24 VDC	1/3	CRA211-ND	33.84	29.57	26.72	30904
		1	CRA204-ND	46.55	40.67	36.75	30571
		10	CRA205-ND	46.55	40.67	36.75	30572
		30	CRA206-ND	46.55	40.67	36.75	30573
		60	CRA213-ND	46.55	40.67	36.75	8870

Pontiac Coil

Solenoids

Pontiac Coil's range of latching, open-frame and tubular solenoids are all designed for manufacturability and unsurpassed quality.

Open Frame

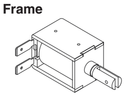

Tubular

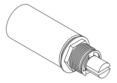

Dimensions Inch H x L x W	Max. Stroke Length Inch Cont./Inter./Pulsed	Power W Cont./Inter./Pulsed	Coil VDC	Digi-Key Part No. Cont. Version	Digi-Key Part No. Inter. Version	Digi-Key Part No. Pulsed Version	Price Each 1	25	100	Pontiac Coil Part No. Cont. Version	Pontiac Coil Part No. Inter. Version	Pontiac Coil Part No. Pulsed Version
Open Frame Pull Type												
1.63 x 2.03 x 1.44	1/1	11/44	12	527-1016-ND	—	—	28.00	23.01	13.80	F0451A	—	—
	1/1	11/44	24	527-1018-ND	—	—	28.00	23.01	13.80	F0453A	—	—
1.21 x 1.85 x 0.95	0.75/0.75	8/19	12	527-1008-ND	527-1009-ND	—	25.00	20.00	10.85	F0431A	F0432A	—
0.96 x 1.17 x 0.82	0.50/0.50	6.4/12.5	12	527-1004-ND	527-1005-ND	—	22.50	17.75	10.11	F0421A	F0422A	—
	0.50/0.50	6.4/12.5	24	527-1006-ND	—	—	22.50	17.75	10.11	F0423A	—	—
0.75 x 1.20 x 0.76	0.50/0.50	4/8.5	12	527-1000-ND	527-1001-ND	—	21.00	16.25	9.26	F0411A	F0412A	—
	0.50/0.50	4/8.5	24	527-1002-ND	527-1003-ND	—	21.00	16.25	9.26	F0413A	F0414A	—
1.24 x 2.02 x 1.00	0.75/0.75	7.5/19	12	527-1012-ND	527-1013-ND	—	26.00	19.05	11.91	F0441A	F0442A	—
	0.75/0.75	7.5/19	24	527-1014-ND	527-1015-ND	—	26.00	19.05	11.91	F0443A	F0444A	—
1.85 x 2.66 x 1.57	1.25/1.25	13/48	12	527-1020-ND	527-1021-ND	—	30.00	25.51	14.96	F0461A	F0462A	—
	1.25/1.25	13/48	24	527-1022-ND	527-1023-ND	—	30.00	25.51	14.96	F0463A	F0464A	—
Open Frame Latching Pull Type with Spring Return												
0.76 x 1.19 x 0.76	0.375/0.375/0.375	4/9/40	12	527-1036-ND	527-1037-ND	527-1038-ND	32.00	28.00	18.31	G0401A	G0402A	G0403A
	0.375/0.375/0.375	4/9/40	24	527-1039-ND	527-1040-ND	—	32.00	28.00	18.31	G0404A	G0405A	—
1.23 x 2.05 x 1.03	0.75/0.75/0.75	7/20/72	12	527-1042-ND	527-1043-ND	527-1044-ND	34.00	29.50	21.10	G0411A	G0412A	G0413A
	0.75/0.75/0.75	7/20/72	24	527-1045-ND	—	—	34.00	29.50	21.10	G0414A	—	—
Tubular Pull Type												
Dia. 1.00 x L 2.03	0.875/0.875	8/40	12	527-1028-ND	527-1029-ND	—	29.00	24.51	14.20	F0481A	F0482A	—
	0.875/0.875	8/40	24	527-1030-ND	527-1031-ND	—	29.00	24.51	14.20	F0483A	F0484A	—
Dia. 1.50 x L 2.38	1.25/1.25	14/66	12	527-1032-ND	527-1033-ND	—	35.00	31.01	22.50	F0491A	F0492A	—
	1.25/1.25	14/66	24	527-1034-ND	527-1035-ND	—	35.00	31.01	22.50	F0493A	F0494A	—
Dia. 0.75 x L 1.50	0.50/0.875	6/40	12	527-1024-ND	527-1025-ND	—	27.00	22.50	12.91	F0471A	F0472A	—
	0.50/0.875	6/40	24	527-1026-ND	527-1027-ND	—	27.00	22.50	12.91	F0473A	F0474A	—

ELECTROSWITCH
ELECTRONIC PRODUCTS

Tubular Solenoids

RoHS COMPLIANT

Dimensions in Inches

Fig. 1

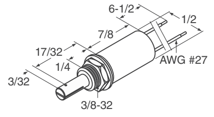

Fig. 2

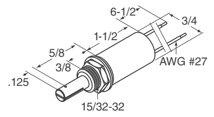

Fig. 3

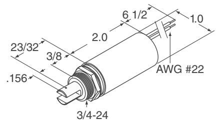

Fig.	Nominal Voltage (VDC)	Duty Cycle	Push/ Pull	O.F. (oz.)	Stroke (Inch)	Digi-Key Part No.	Price Each 1	10	50	100	Electroswitch Part No.
1	12	Intermittent	Pull	3	1/4	451-1131-ND	20.75	16.60	14.53	13.78	C8-141012DC-AY
	24	Intermittent	Pull	3	1/4	451-1132-ND	20.75	16.60	14.53	13.78	C8-141024DC-AY
	12	Continuous	Pull	30	1	451-1133-ND	20.75	16.60	14.53	13.78	C8-14C12DC-AY
	24	Continuous	Push	30	1	451-1134-ND	20.00	16.00	14.00	13.28	C8-14C24DC-AP
2	12	Intermittent	Pull	17	1	451-1136-ND	22.75	18.20	15.93	15.11	C12-241012DC-AY
	24	Intermittent	Push	17	1	451-1137-ND	23.88	19.10	16.72	15.86	C12-241024DC-AP
	12	Continuous	Pull	4	3/4	451-1139-ND	22.25	17.80	15.58	14.78	C12-24C12DC-AY
	24	Continuous	Push	4	3/4	451-1140-ND	23.75	19.00	16.63	15.77	C12-24C24DC-AP
3	12	Intermittent	Pull	74	1	451-1142-ND	28.88	23.10	20.22	19.18	C16-321012DC-AY
	24	Intermittent	Pull	74	1	451-1143-ND	28.63	22.90	20.04	19.01	C16-321024DC-AY

CUI INC

NEW! Motion Control Kit RPM Torque DC Motor with Integrated Modular Encoder

RoHS COMPLIANT

The CUI M Series Motion Control Solution includes a CUI AMT encoder and a Micromo motor assembled and ready to use in your application. This new product series combines a DC motor and an AMT-103 rotary encoder into one integrated product. These kits are offered with or without gear heads and are ready to use out of the box.

Fig. 1

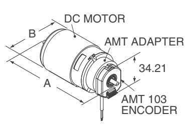

Fig. 2

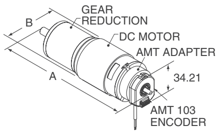

Fig.	Nominal Voltage (VDC)	RPM	Torque (mNm)	Dimensions - mm A	B	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
1	12	8,400	21.92	57.45	22.0	102-2011-ND	83.81	79.40	74.99	72.79	M223X0002
	12	7,800	66.95	65.95	31.0	102-2014-ND	93.68	91.34	89.00	84.32	M313X0001
	24	11,000	615.67	108.50	48.0	102-2017-ND	121.30	118.27	115.24	109.17	M487X0003
2	12	8,400	21.92	87.55	22.0	102-2012-ND	130.74	124.21	117.67	114.40	M223X0003
	12	8,400	21.92	91.20	22.0	102-2013-ND	136.92	133.50	130.08	123.23	M223X0004
	12	7,800	66.95	106.05	31.0	102-2015-ND	135.32	127.81	120.29	112.77	M313T0003
	12	7,800	66.95	112.45	31.0	102-2016-ND	141.21	133.37	125.52	117.68	M313T0004
	24	11,000	615.67	161.00	48.0	102-2018-ND	188.95	178.45	167.96	157.46	M487X0004
	24	11,000	615.67	167.70	48.0	102-2019-ND	194.51	183.71	172.90	162.09	M487X0005

Peltier Modules

RoHS COMPLIANT

CUI Peltier Modules provide a convenient and reliable cooling solution. Their compact size make them ideal for applications that are size or weight limited and in applications where heat sinks, compressors or fans wouldn't be feasible. They can be operated in any orientation, do not require the use of chlorofluorocarbons and have no moving parts so they are virtually maintenance free. They are great for use in many demanding industries such as medical, laboratory, aerospace, semiconductor, telecom, industrial, and consumer products.

Fig. 1

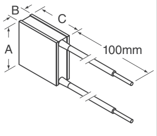

Fig. 2

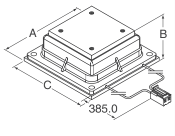

Fig.	Maximum Current (A)	Maximum Voltage (V)	Resistance (Ω ±10%)	(Th = 27°C) Qmax (W)	Delta Tmax	Dimensions – mm A	B	C	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
1	2.0	3.8	1.6	3.7	66°C	15	5.1	15	102-1663-ND	15.18	13.66	11.39	CP20151
		8.6	3.7	8.5	66°C	20	5.1	20	102-1664-ND	16.36	14.72	12.27	CP20251
		15.4	6.7	15.2	66°C	30	5.1	30	102-1665-ND	16.04	14.44	12.03	CP20351
	3.0	3.8	1.0	6.5	66°C	15	3.8	15	102-1666-ND	15.18	13.66	11.39	CP30138
		8.6	2.3	15	66°C	20	3.8	20	102-1667-ND	16.36	14.72	12.27	CP30238
		15.4	4.0	27	66°C	30	3.8	30	102-1668-ND	15.94	14.35	11.96	CP30338
	4.0	3.8	0.8	8.1	66°C	15	3.6	15	102-1669-ND	15.18	13.66	11.39	CP40136
		8.6	2.0	18.7	66°C	20	3.6	20	102-1670-ND	16.36	14.72	12.27	CP40236
		15.4	3.5	33.4	66°C	30	3.6	30	102-1671-ND	15.44	13.90	11.58	CP40336
	6.0	3.8	0.5	12.2	66°C	15	3.3	15	102-1672-ND	15.18	13.66	11.39	CP60133
		8.6	1.2	27.9	66°C	20	3.3	20	102-1673-ND	16.36	14.72	12.27	CP60233
		15.4	2.2	50.5	66°C	30	3.3	30	102-1674-ND	15.44	13.90	11.58	CP60333
		2.1	0.29	7.1	68°C	15	4.0	15	102-1675-ND	13.54	12.19	10.16	CP60140
		3.8	0.53	13	68°C	20	4.0	20	102-1676-ND	14.90	13.41	11.18	CP60240
		8.6	1.21	29	68°C	30	4.0	30	102-1677-ND	16.04	14.44	12.03	CP60340
		15.4	2.17	53	68°C	40	4.0	40	102-1678-ND	15.82	14.24	11.87	CP60440
	8.5	2.1	0.2	10	68°C	15	3.8	15	102-1679-ND	14.48	13.03	10.86	CP85138
		3.8	0.4	18	68°C	20	3.8	20	102-1680-ND	16.30	14.67	12.23	CP85238
		8.6	0.9	42	68°C	30	3.8	30	102-1681-ND	16.88	15.19	12.66	CP85338
		15.4	1.5	75	68°C	40	3.8	40	102-1682-ND	17.82	16.04	13.37	CP85438
2	6.0	12.0	—	46	—	70	27	70	102-1738-ND†	96.40	91.58	80.31	CPM-2F

† Reference data sheet for Resistance Value and Delta Tmax.

Low Saturation Transistors

Up to 25 Volts

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN — RoHS Compliant															
17.5	50	4.0	300	1200	1000	2	0.21	4000	20	T092-3	ZTX1048A-ND	1.12	9.95	78.65	481.50
20	20	3.5	300	—	200	2	0.255	3500	50	T092-3	ZTX618-ND	.82	7.21	55.62	329.60
25	20	3.0	400	—	2000	2	0.5	2000	10	T092-3	ZTX689B-ND	1.08	9.58	75.71	463.50
	60	5.0	300	—	1000	1	0.22	5000	100	T092-3	ZTX869-ND	1.24	11.01	86.98	532.50
	35	2.0	100	300	1000	2	0.5	2000	200	T092-3	ZTX649-ND	.92	8.05	62.10	368.00
PNP — RoHS Compliant															
-12	-15	-4.5	300	1000	-500	-1	-0.30	-4500	-200	T092-3	ZTX968-ND	1.09	9.61	75.95	465.00
-15	-20	-3.0	300	800	-10	-1	-0.32	-3000	-20	T092-3	ZTX788A-ND	1.12	9.95	78.65	481.50
	-25	-3.0	300	800	-10	-2	-0.45	-2000	-20	T092-3	ZTX789A-ND	1.12	9.95	78.65	481.50
-20	-40	-4.5	100	300	-1000	-1	-0.31	-4500	-300	T092-3	ZTX948-ND	1.24	11.01	86.98	532.50
	-20	-2.5	300	—	-10	-2	-0.26	-2500	-200	T092-3	ZTX718-ND	.82	7.21	55.62	329.60
-25	-30	-3.0	250	800	-500	-2	-0.3	-3000	-70	T092-3	ZTX1149A-ND	1.12	9.95	78.65	481.50
	-35	-2.0	100	300	-1000	-2	-0.5	-2000	-200	T092-3	ZTX749-ND	.92	8.15	64.44	394.50

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
NPN																
10	35	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1047ACT-ND◆	.95	.82	FZT1047ATR-ND◆	1,000	344.00
	35	4.0	300	1200	1000	2	0.35	5000	25	SOT-89	FCX1047ACT-ND◆	.84	.73	FCX1047ATR-ND◆	1,000	304.00
12	20	6.5	500	1500	10	2	0.038	1000	100	SOT-89	ZXTN25012EZCT-ND◆	.72	.58	ZXTN25012EZTR-ND◆	1,000	221.00
	20	6.0	500	1500	10	2	32	1000	100	SOT23-3	ZXTN25012EFHTACT-ND◆	.70	.61	ZXTN25012EFHTATR-ND◆	3,000	232.00/M
	20	4.5	140	—	10,000	2	0.32	4500	45	SOT23F-3	ZXTN07012EFFCT-ND◆	.79	.64	ZXTN07012EFFTR-ND◆	3,000	223.00/M
	12	4.0	400	—	3000	2	0.35	3000	20	SOT-223	FZT688BCT-ND◆	.86	.75	FZT688BTR-ND◆	1,000	312.00
	20	2.0	30	—	15,000	2	0.30	5000	100	SOT23-3	ZXTN25012EFLCT-ND◆	.52	.42	ZXTN25012EFLTR-ND◆	3,000	147.00/M
	12	3.0	400	—	3000	2	0.40	4000	50	SOT-89	FCX688BCT-ND◆	.82	.66	FCX688BTR-ND◆	1,000	253.00
15	60	6.0	200	560	500	2	0.015	100	5	SOT23-3	ZXTN23015CFHCT-ND◆	.92	.80	ZXTN23015CFHTR-ND◆	3,000	305.00/M
	40	5.0	300	900	10	2	40	1000	100	SOT23-3	ZXTN25015DFHCT-ND◆	.66	.57	ZXTN25015DFHTR-ND◆	3,000	218.00/M
	40	4.5	200	—	3000	2	0.28	4500	50	3-DFN	ZXTN617MATACT-ND◆ ***NEW!***	.66	.53	ZXTN617MATATR-ND◆ ***NEW!***	3,000	186.00/M
	70	4.5	200	—	10	2	8	100	10	3-MLP	ZXTAM322TACT-ND◆	.84	.73	ZXTAM322TATR-ND◆	3,000	277.00/M
	15	4.0	300	—	10	2	0.014	100	10	SOT-23-6	ZXT10N15DE6TACT-ND	.66	.57	—	—	—
	15	3.0	200	—	3000	2	0.20	3000	50	SOT-89	FCX617CT-ND◆	.80	.64	FCX617TR-ND◆	1,000	247.00
	40	3.0	300	900	200	2	0.15	3000	150	SOT23-3	ZXT11N15DFCT-ND◆	.79	.63	ZXT11N15DFTR-ND◆	3,000	222.00/M
	15	3.0	200	—	3000	2	0.2	3000	50	SOT23-3	FMMT617CT-ND◆	.70	.56	FMMT617TR-ND◆	3,000	197.00/M
	15	1.5	200	—	1000	2	0.18	1000	10	SC70-3	ZUMT617CT-ND◆	.50	.40	ZUMT617TR-ND◆	3,000	140.00/M
17.5	50	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1048ACT-ND◆	.95	.82	FZT1048ATR-ND◆	1,000	344.00
20	100	10	200	—	10	2	8	100	10	3-MLP	ZXTBM322TACT-ND◆	.84	.73	ZXTBM322TATR-ND◆	3,000	277.00/M
	70	9.0	300	900	100	2	0.035	1000	100	SOT-223	ZXTN19020DGCT-ND◆	.95	.83	ZXTN19020DGTR-ND◆	1,000	346.00
	70	7.5	300	900	100	2	0.032	1000	100	SOT-89	ZXTN19020DZCT-ND◆	.88	.76	ZXTN19020DZTR-ND◆	1,000	318.00
	100	7.0	300	900	10	2	0.048	1000	100	SOT-223	ZXTN25020DGCT-ND◆	.95	.82	ZXTN25020DGTR-ND◆	1,000	344.00
	65	7.0	45	—	15,000	2	0.175	7000	280	SOT23F-3	ZXTN19020CFFCT-ND◆	.81	.71	ZXTN19020CFFTR-ND◆	3,000	268.00/M
	70	6.5	50	—	15,000	2	0.190	6500	180	SOT23F-3	ZXTN19020DFFCT-ND◆	.92	.79	ZXTN19020DFFTR-ND◆	3,000	302.00/M
	100	6.0	300	900	10	2	0.048	1000	100	SOT-89	ZXTN25020DZCT-ND◆	.72	.58	ZXTN25020DZTR-ND◆	1,000	221.00
	100	4.5	300	900	10	2	0.043	1000	100	SOT23-3	ZXTN25020DFHCT-ND◆	.66	.57	ZXTN25020DFHTR-ND◆	3,000	218.00/M
	70	4.5	200	500	10	2	45	1000	100	SOT23-3	ZXTN25020CFHCT-ND◆	.78	.62	ZXTN25020CFHTR-ND◆	3,000	219.00/M
	70	4.5	200	500	10	2	45	1000	100	SOT23-3	ZXTN25020CFHTACT-ND◆	.66	.57	ZXTN25020CFHTATR-ND◆	3,000	218.00/M
	70	4.5	200	500	10	2	45	1000	100	SOT23-3	ZXTN25020BFHCT-ND◆	.66	.57	ZXTN25020BFHTR-ND◆	3,000	218.00/M
	50	4.5	300	900	1000	2	0.23	4500	45	SOT-23-6	ZXT13N20DE6CT-ND	1.08	.81	—	—	—
	40	4.5	200	—	10	2	0.27	4500	125	3-DFN	ZXTN618MATACT-ND◆ ***NEW!***	.66	.53	ZXTN618MATATR-ND◆ ***NEW!***	3,000	186.00/M
	20	3.5	200	—	10	2	0.015	100	10	SOT-23-6	ZXT10N20DE6TACT-ND◆	.66	.57	ZXT10N20DE6TATR-ND◆	3,000	218.00/M
	20	3.0	400	—	2000	2	0.45	3000	20	SOT-223	FZT689BCT-ND◆	.85	.74	FZT689BTR-ND◆	1,000	310.00
	20	2.5	200	—	2000	2	0.2	2500	50	SOT23-3	FMMT618CT-ND◆	.70	.56	FMMT618TR-ND◆	3,000	197.00/M
	100	2.0	80	—	4500	2	0.27	4500	450	SOT23-3	ZXTN25020DFLCT-ND◆	.52	.42	ZXTN25020DFLTR-ND◆	3,000	147.00/M
	20	1.25	200	—	1000	2	0.2	1000	10	SC70-3	ZUMT618CT-ND◆	.50	.40	ZUMT618TR-ND◆	3,000	140.00/M
	25	1.0	160	400	500	1	0.5	1000	100	SOT-223	BCP6825CT-ND◆	.77	.67	—	—	—
	25	1.0	160	400	500	1	0.5	1000	100	SOT-89	BCX6825CT-ND◆	.54	.43	BCX6825TR-ND◆	1,000	135.00
	40	2.5	300	900	100	2	0.13	2500	250	SOT23-3	ZXT11N20DFCT-ND◆	.71	.62	ZXT11N20DFTR-ND◆	3,000	235.00/M
25	60	7.0	300	—	1000	1	0.075	1000	10	SOT-223	ZXTN2005GCT-ND◆	.95	.85	ZXTN2005GTR-ND◆	1,000	375.00
	80	6.5	300	—	1000	1	0.215	2000	10	SOT-223	FZT869CT-ND◆	.99	.89	FZT869TR-ND◆	1,000	390.00
	60	5.5	300	—	1000	1	0.07	1000	10	SOT-89	ZXTN2005ZCT-ND◆	.97	.84	ZXTN2005ZTR-ND◆	1,000	352.00
	35	3.0	200	500	100	2	0.3	3000	300	SOT-23	ZXTN649FTACT-ND◆ ***NEW!***	1.63	1.47	ZXTN649FTATR-ND◆ ***NEW!***	3,000	602.00/M
	35	3.0	100	300	1000	2	0.3	1000	100	SOT-223	FZT649CT-ND◆	.79	.69	FZT649TR-ND◆	1,000	288.00
PNP																
-12	-20	-6.0	300	900	-1000	-2	-0.163	-6000	-60	MSOP-8	ZXT14P12DXCT-ND	2.43	2.09	—	—	—
	-15	-5.0	250	850	-500	-2	-0.4	-5000	-50	SOT-223	FZT1147ACT-ND	1.01	.88	FZT1147ATR-ND	1,000	368.00
	-20	-4.5	500	1500	-10	-2	-0.07	-1000	-100	SOT-89	ZXTP25012EZCT-ND◆	.72	.58	ZXTP25012EZTR-ND◆	1,000	221.00
	-25	-4.0	300	—	-10	-2	-10	-100	-10	3-MLP	ZXT1M322TACT-ND	.84	.73	—	—	—
	-20	-4.0	300	900	-1000	-2	-0.25	-4000	-50	SOT-23-6	ZXT13P12DE6CT-ND◆	.79	.69	ZXT13P12DE6TR-ND◆	3,000	261.00/M
	-20	-4.0	180	—	-2500	-2	-0.3	-4000	-150	3-DFN	ZXTP717MATACT-ND◆ ***NEW!***	.66	.53	ZXTP717MATATR-ND◆ ***NEW!***	3,000	186.00/M
	-12	-4.0	150	—	-6000	-2	-0.34	-4000	-80	SOT23F-3	ZXTP07012EFFCT-ND◆	.79	.64	ZXTP07012EFFTR-ND◆	3,000	223.00/M
	-12	-4.0	50	—	-4000	-2	-0.35	-2000	-40	SOT23-3	ZXTP25012EFHCT-ND◆	.67	.58	ZXTP25012EFHTR-ND◆	3,000	220.00/M
	-12	-3.0	300	—	-10	-2	-0.017	-100	-10	SOT-23-6	ZXT10P12DE6TACT-ND◆	.66	.57	ZXT10P12DE6TATR-ND◆	3,000	218.00/M
	-12	-3.0	300	—	-100	-2	-0.32	-3000	-50	SOT-89	FCX717CT-ND◆	.80	.64	FCX717TR-ND◆	1,000	247.00
	-12	-3.0	300	—	-10	-2	-0.32	-3000	-50	SOT-223	FZT717CT-ND◆	.97	.84	FZT717TR-ND◆	1,000	354.00
	-12	-2.5	180	—	-2500	-2	-0.17	-1500	-50	SOT23-3	FMMT717CT-ND◆	.55	.44	FMMT717TR-ND◆	3,000	155.00/M
	-12	-1.25	50	—	-3000	-2	-0.29	-1250	-50	SOT23-3	FMMTL717CT-ND◆	.62	.49	FMMTL717TR-ND◆	3,000	140.00/M
	-12	-1.25	180	—	-1000	-2	-0.24	-1250	-50	SC70-3	ZUMT717CT-ND	.50	.40	ZUMT717TR-ND	3,000	140.00/M
-15	-15	-6.0	200	560	-500	-2	-0.01	-100	-10	SOT23-3	ZXTP23015CFHCT-ND◆	.92	.80	ZXTP23015CFHTR-ND◆	3,000	305.00/M
	-15	-4.0	300	900	-10	-2	-55	-1000	-100	SOT23-3	ZXTP25015DFHCT-ND◆	.66	.57	ZXTP25015DFHTR-ND◆	3,000	218.00/M
	-15	-4.0	300	900	-10	-2	-55	-1000	-100	SOT23-3	ZXTP25015DFHTACT-ND◆	.66	.57	ZXTP25015DFHTATR-ND◆	3,000	218.00/M
	-15	-3.0	300	—	-2000	-2	-0.45	-2000	-10	SOT-223	FZT788BCT-ND◆	1.08	.94	FZT788BTR-ND◆	1,000	392.00
-20	-25	-8.0	300	900	-100	-2	-0.275	-8000	-800	PowerDI5	DXTP19020DP5-13CT-ND◆ ***NEW!***	.72	.58	DXTP19020DP5-13TR-ND◆ ***NEW!***	5,000	189.00/M
	-25	-8.0	300	900	-100	-2	-0.047	-1000	-100	SOT-223	ZXTP19020DGCT-ND◆	.95	.82	ZXTP19020DGTR-ND◆	1,000	344.00
	-40	-6.0	100	300	-1000	-1	-0.18	-2000	-200	SOT-223	FZT948CT-ND◆	1.14	1.02	FZT948TR-ND◆	1,000	450.00
	-25	-6.0	300	900	-100	-2	-0.047	-1000	-100	SOT-89	ZXTP19020DZCT-ND◆	.87	.76	ZXTP19020DZTR-ND◆	1,000	317.00
	-25	-6.0	300	900	-10	-2	-0.065	-1000	-100	SOT-223	ZXTP25020DGCT-ND◆	.66	.57	ZXTP25020DGTR-ND◆	1,000	240.00
	-25	-5.0	300	900	-10	-2	-0.065	-1000	-100	SOT-89	ZXTP25020DZCT-ND◆	.72	.58	ZXTP25020DZTR-ND◆	1,000	221.00
	-25	-5.0	110	—	-5000	-2	-0.135	-5000	-500	SOT23F-3	ZXTP19020CFFCT-ND◆	.81	.71	ZXTP19020CFFTR-ND◆	3,000	268.00/M
	-25	-3.5	150	—	-2000	-2	-0.3	-3500	-350	3-DFN	ZXTP718MATACT-ND◆ ***NEW!***	.66	.53	ZXTP718MATATR-ND◆ ***NEW!***	3,000	186.00/M

◆ *RoHS Compliant*

(Continued)

TO-92

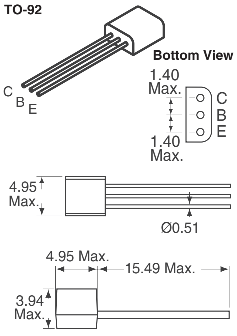

SOT-223

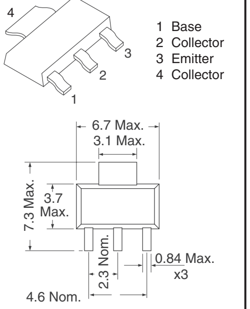

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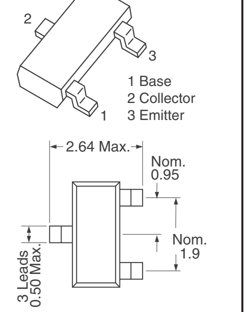

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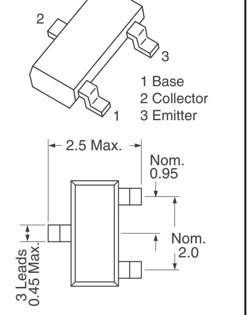

3-DFN ***NEW!***

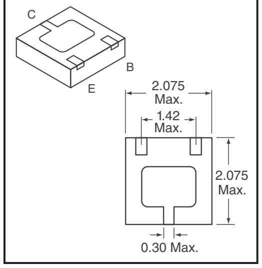

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

A Product Line of Diodes Incorporated

Low Saturation Transistors

Up to 25 Volts *(Cont.)*

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Qty.	Pricing
-20	-20	-5.0	110	—	-5000	-2	-0.135	-5000	-500	SOT23F-3	ZXTP19020DFFCT-ND◆	.92	.79	ZXTP19020DFFTR-ND◆	3,000	302.00/M
	-40	-4.5	100	300	-10	-2	-60	-1000	-100	SOT23-3	ZXTP25020BFHCT-ND◆	.66	.57	ZXTP25020BFHTR-ND◆	3,000	218.00/M
	-25	-4.5	200	500	-10	-2	-0.065	-1000	-100	SOT23F-3	ZXTP25020CFFCT-ND◆	.66	.57	ZXTP25020CFFTR-ND◆	3,000	218.00/M
	-25	-4.0	70	—	-4000	-2	-0.24	-2000	-40	SOT23-3	ZXTP25020DFHCT-ND◆	.66	.57	ZXTP25020DFHTR-ND◆	3,000	218.00/M
	-25	-4.0	200	500	-10	-2	-55	-1000	-100	SOT23-3	ZXTP25020CFHCT-ND◆	.66	.57	ZXTP25020CFHTR-ND◆	3,000	218.00/M
	-25	-3.5	300	—	-10	-2	-19	-100	-10	3-MLP	ZXT2M322TACT-ND◆	.84	.73	ZXT2M322TATR-ND◆	3,000	277.00/M
	-25	-3.5	300	900	-1000	-2	-0.25	-3500	-350	SOT-23-6	ZXT13P20DE6CT-ND	.79	.69	ZXT13P20DE6TR-ND	3,000	261.00/M
	-25	-3.5	300	900	-1000	-2	-0.015	-100	-10	SOT-23-6	ZX5T2E6CT-ND◆	.66	.58	ZX5T2E6TR-ND◆	3,000	219.00/M
	-25	-3.5	300	900	-1000	-2	-0.14	-1000	-10	SOT-23-6	ZXTP2006E6CT-ND◆	.75	.65	ZXTP2006E6TR-ND◆	3,000	247.00/M
	-20	-2.5	300	—	-10	-2	-0.030	-100	-10	SOT-23-6	ZXT10P20DE6TACT-ND	.66	.57	—	—	—
	-20	-2.5	300	—	-100	-2	-0.22	-1500	-50	SOT-89	FCX718CT-ND◆	.80	.64	FCX718TR-ND◆	1,000	247.00
	-25	-1.5	60	—	-4000	-2	-0.275	-2000	-40	SOT23-3	ZXTP25020DFLCT-ND◆	.52	.42	ZXTP25020DFLTR-ND◆	3,000	147.00/M
	-20	-1.5	150	—	-2000	-2	-0.20	-1000	-20	SOT23-3	FMMT718CT-ND◆	.51	.41	FMMT718TR-ND◆	3,000	143.00/M
	-20	-1.0	300	—	-10	-2	-0.18	-500	-20	SOT23-3	FMMTL718CT-ND◆	.62	.49	FMMTL718TR-ND◆	3,000	140.00/M
	-20	-1.0	180	—	-500	-2	-0.18	-500	-20	SC70-3	ZUMT718CT-ND◆	.50	.40	ZUMT718TR-ND◆	3,000	140.00/M
	-25	-1.0	160	400	-500	-1	-0.5	-1000	-100	SOT-89	BCX6925CT-ND◆	.54	.43	BCX6925TR-ND◆	1,000	135.00
-25	-30	-4.0	250	800	-500	-2	-0.35	-4000	-140	SOT-223	FZT1149ACT-ND◆	1.01	.88	FZT1149ATR-ND◆	1,000	368.00
	-30	-3.0	250	800	-500	-2	-0.30	-3000	-100	SOT-89	FCX1149ACT-ND◆	.87	.76	FCX1149ATR-ND◆	1,000	317.00
	-35	-3.0	200	500	-100	-2	-0.35	-3000	-300	SOT-23	ZXTP749FTACT-ND◆ ***NEW!***	1.63	1.47	ZXTP749FTATR-ND◆ ***NEW!***	3,000	602.00/M
	-35	-3.0	100	300	-1000	-2	-0.3	-1000	-100	SOT-223	FZT749CT-ND◆	.97	.84	FZT749TR-ND◆	1,000	354.00
	-25	-3.0	300	800	-10	-2	-0.19	-1000	-10	SOT-89	FCX789ACT-ND◆	.72	.58	FCX789ATR-ND◆	1,000	221.00
	-25	-2.0	250	—	-1000	-2	-0.45	-2000	-20	SOT-223	FZT789ACT-ND◆	.97	.84	FZT789ATR-ND◆	1,000	352.00

30-50 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Loose Piece Pricing			
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10	100	1,000
NPN — RoHS Compliant															
30	80	5	100	300	1000	1	0.22	5000	200	TO92-3	ZTX849-ND	1.09	9.61	75.95	465.00
	80	4	300	1200	1000	2	0.18	2000	10	TO92-3	ZTX1049A-ND	.76	6.65	51.30	304.00
	50	1	100	300	500	2	0.5	1000	100	TO92-3	ZTX449-ND	.64	5.60	43.20	256.00
40	150	4	300	1200	1000	2	0.21	4000	100	TO92-3	ZTX1051A-ND	1.12	9.95	78.65	481.50
45	45	2	400	—	1000	2	0.5	1000	5	TO92-3	ZTX690B-ND	.95	8.37	66.15	405.00
	60	1	100	300	150	10	0.25	150	15	TO92-3	ZTX450-ND	.67	5.60	42.00	238.00
PNP — RoHS Compliant															
-30	-35	-1	100	300	-500	-2	-0.5	-1000	-100	TO92-3	ZTX549-ND	.64	5.60	43.20	256.00
	-50	-4.5	100	300	-1000	-1	-0.06	-500	-20	TO92-3	ZTX949-ND	1.24	11.01	86.98	532.50
-40	-50	-2	300	800	-10	-2	-0.75	-2000	-50	TO92-3	ZTX790A-ND	1.12	9.95	78.65	481.50
-45	-60	-1	100	300	-150	-10	-0.25	-150	-15	TO92-3	ZTX550-ND	.67	5.60	42.00	238.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Qty.	Pricing
NPN — RoHS Compliant																
25	80	5.0	300	1200	1000	2	0.33	5000	50	SOT-223	FZT1049ACT-ND	.95	.82	FZT1049ATR-ND	1,000	344.00
30	80	7.0	100	300	1000	1	0.215	2000	20	SOT-223	FZT849CT-ND	1.06	.96	FZT849TR-ND	1,000	420.00
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZX5T849GCT-ND	.98	.89	ZX5T849GTR-ND	1,000	389.00
	80	7.0	100	—	10	1	0.18	2000	20	D-PAK	ZXT849KCT-ND	1.50	1.35	ZXT849KTR-ND	2,500	554.00/M
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZXTN2007GCT-ND	.95	.85	ZXTN2007GTR-ND	1,000	375.00
	80	6.0	100	300	1000	1	0.06	1000	20	SOT-89	ZXTN2007ZCT-ND	1.01	.88	ZXTN2007ZTR-ND	1,000	368.00
	50	1.0	100	300	500	2	0.5	1000	100	SOT23-3	FMMT449CT-ND	.54	.43	FMMT449TR-ND	3,000	124.00/M
	50	1.0	100	300	1000	2	0.3	1000	100	SOT23-3	FMMT489CT-ND	.54	.43	FMMT489TR-ND	3,000	124.00/M
40	150	5.0	270	1200	1000	2	0.18	3000	10	SOT-223	FZT1051ACT-ND	.95	.82	FZT1051ATR-ND	1,000	344.00
	130	4.0	30	—	4000	2	0.21	2000	40	SOT23-3	ZXTN25040DFHCT-ND	.66	.57	ZXTN25040DFHTR-ND	3,000	218.00/M
	150	3.0	270	1200	1000	2	0.34	5000	100	SOT-89	FCX1051ACT-ND	.84	.73	FCX1051ATR-ND	1,000	304.00
	130	1.5	300	900	10	2	50	500	50	SOT23-3	ZXTN25040DFLCT-ND	.52	.42	ZXTN25040DFLTR-ND	3,000	147.00/M
	50	1.0	100	300	1000	2	0.3	1000	100	SOT-223	FZT489CT-ND	.75	.65	FZT489TR-ND	1,000	272.00
	40	1.0	300	900	500	5	0.2	100	1	SOT23-3	ZXTN2040FCT-ND	.47	.38	ZXTN2040FTR-ND	3,000	107.00/M
	40	1.0	300	900	500	5	0.5	1000	100	SOT-89	FCX491ACT-ND	.58	.47	FCX491ATR-ND	1,000	179.00
	40	1.0	300	900	500	5	0.5	1000	100	SOT-223	FZT491ACT-ND	.75	.65	FZT491ATR-ND	1,000	272.00
	40	1.0	300	900	500	5	0.3	1000	50	SOT23-3	FMMT491ACT-ND	.54	.43	FMMT491ATR-ND	3,000	124.00/M
45	45	4.0	70	—	4000	2	0.34	4000	80	SOT23F-3	ZXTN07045EFFCT-ND	.79	.64	ZXTN07045EFFTR-ND	3,000	223.00/M
	60	3.0	400	—	1000	2	0.35	3000	150	D-PAK	ZXT690BKCT-ND	1.16	1.04	ZXT690BKTR-ND	2,500	428.00/M
	60	3.0	150	—	2000	2	0.35	3000	150	PowerDI5	DXT690BP5-13CT-ND ***NEW!***	.70	.61	DXT690BP5-13TR-ND ***NEW!***	5,000	216.00/M
	45	3.0	400	150	2000	2	0.30	1000	5	SOT-89	FCX690BCT-ND	.66	.53	FCX690BTR-ND	1,000	204.00
	45	2.0	400	—	1000	2	0.1	100	0.5	SOT-223	FZT690BCT-ND	.97	.84	FZT690BTR-ND	1,000	352.00
	75	0.80	250	630	100	1	0.3	100	10	SOT23-3	BCW66HCT-ND	.53	.38	BCW66HTR-ND	3,000	76.00/M
50	80	5.0	200	560	500	2	0.018	100	5	SOT23-3	ZXTN2031FCT-ND	.92	.80	ZXTN2031FTR-ND	3,000	305.00/M
	150	4.0	20	—	4000	2	0.060	1000	100	SOT23-3	ZXTN25050DFHCT-ND	.66	.57	ZXTN25050DFHTR-ND	3,000	218.00/M
	100	4.0	100	—	2000	2	0.32	4000	200	3-DFN	ZXTN619MATACT-ND ***NEW!***	.66	.53	ZXTN619MATATR-ND ***NEW!***	3,000	186.00/M
	100	4.0	200	—	10	2	0.02	100	10	3-MLP	ZXTCM322CT-ND	.84	.73	ZXTCM322TR-ND	3,000	277.00/M
	100	4.0	300	900	1000	2	0.23	4000	100	SOT-23-6	ZXT13N50DE6CT-ND	.79	.69	ZXT13N50DE6TR-ND	3,000	261.00/M
	50	3.0	200	—	10	2	0.02	100	10	SOT-23-6	ZXT10N50DE6TACT-ND	.66	.57	ZXT10N50DE6TATR-ND	3,000	218.00/M
	50	3.0	200	—	1000	2	0.35	3000	100	SOT-89	FCX619CT-ND	.80	.64	FCX619TR-ND	1,000	247.00
	50	2.0	100	—	2000	2	0.2	1000	10	SOT23-3	FMMT619CT-ND	.70	.56	FMMT619TR-ND	3,000	197.00/M
	100	1.25	30	—	2000	5	0.33	1250	125	SOT23-3	FMMTL619CT-ND	.53	.42	—	—	—
	50	1.0	200	—	500	5	0.18	500	25	SC70-3	ZUMT619CT-ND	.50	.40	ZUMT619TR-ND	3,000	140.00/M
PNP																
-30	-50	-5.5	100	300	-1000	-1	-0.27	-2000	-200	SOT-223	FZT949CT-ND◆	1.14	1.02	FZT949TR-ND◆	1,000	450.00
	-50	-5.5	100	300	-1000	-1	-0.085	-1000	-20	SOT-223	ZX5T949GCT-ND◆	1.03	.92	ZX5T949GTR-ND◆	1,000	405.00
	-50	-5.5	100	300	-1000	-1	-0.085	-1000	-20	SOT-223	ZXTP2008GCT-ND◆	.95	.85	ZXTP2008GTR-ND◆	1,000	375.00
	-50	-5.5	100	300	-1000	-1	-0.08	-1000	-20	SOT-89	ZXTP2008ZCT-ND◆	1.01	.88	ZXTP2008ZTR-ND◆	1,000	368.00
	-50	-1.0	100	300	-500	-2	-0.35	-1000	-100	SOT-89	FCX589CT-ND◆	.66	.53	FCX589TR-ND◆	1,000	204.00
	-50	-1.0	100	300	-500	-2	-0.35	-1000	-100	SOT23-3	FMMT589CT-ND◆	.54	.43	FMMT589TR-ND◆	3,000	124.00/M
	-35	-1.0	100	300	-500	-2	-0.5	-1000	-100	SOT23-3	FMMT549CT-ND◆	.54	.43	FMMT549TR-ND◆	3,000	124.00/M
	-35	-1.0	150	500	-500	-2	-0.3	-100	-1	SOT23-3	FMMT549ACT-ND◆	.54	.43	FMMT549ATR-ND◆	3,000	124.00/M
	-35	-1.0	100	300	-500	-5	-0.5	-1000	-100	SOT-223	FZT549CT-ND◆	.75	.65	FZT549TR-ND◆	1,000	272.00
-40	-50	-5.5	200	550	-500	-2	-0.165	-1000	-10	SOT-89	ZX5T3ZCT-ND◆	.76	.66	ZX5T3ZTR-ND◆	1,000	277.00
	-50	-5.5	200	550	-500	-2	-0.165	-1000	-10	SOT-89	ZXTP2009ZCT-ND◆	1.01	.88	ZXTP2009ZTR-ND◆	1,000	368.00
	-50	-4.0	300	900	-1000	-2	-0.16	-4000	-200	MSOP-8	ZXT14P40DXCT-ND	2.43	2.09	—	—	—
	-50	-3.0	300	—	-10	-2	-0.04	-100	-10	3-MLP	ZXT3M322CT-ND◆	.84	.73	ZXT3M322TR-ND◆	3,000	277.00/M
	-50	-3.0	60	—	-1500	-2	-0.37	-2500	-250	3-DFN	ZXTP720MATACT-ND◆ ***NEW!***	.66	.53	ZXTP720MATATR-ND◆ ***NEW!***	3,000	186.00/M
	-50	-3.0	300	800	-10	-2	-0.45	-3000	-300	PowerDI5	DXT790AP5-13CT-ND◆ ***NEW!***	.70	.61	DXT790AP5-13TR-ND◆ ***NEW!***	5,000	216.00/M
	-45	-3.0	250	800	-500	-2	-0.30	-3000	-250	SOT-89	FCX1151ACT-ND◆	.84	.73	FCX1151ATR-ND◆	1,000	304.00
	-45	-3.0	250	800	-500	-2	-0.3	-3000	-250	SOT-223	FZT1151ACT-ND◆	1.01	.88	FZT1151ATR-ND◆	1,000	368.00
	-50	-3.0	300	900	-1000	-2	-0.24	-3000	-300	SOT-23-6	ZXT13P40DE6CT-ND	.79	.69	ZXT13P40DE6TR-ND	3,000	261.00/M
	-45	-3.0	30	—	-3000	-2	-0.065	-1000	-100	SOT23-3	ZXTP25040DFHCT-ND◆	.66	.57	ZXTP25040DFHTR-ND◆	3,000	218.00/M
	-50	-3.0	300	800	-10	-2	-0.45	-2000	-50	D-PAK	ZXT790AKCT-ND◆	1.16	1.04	ZXT790AKTR-ND◆	2,500	428.00/M

◆ ***RoHS Compliant***

(Continued)

PowerDI5 *NEW!*

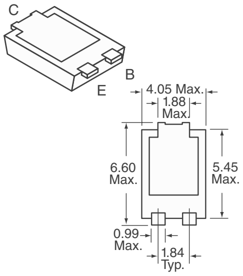

SOT-23-6

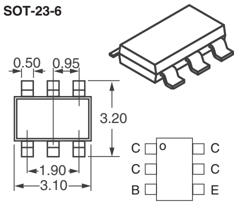

Pin out for SOT23-6

SOT-89

1 Base
2 Collector
3 Emitter
4 Collector

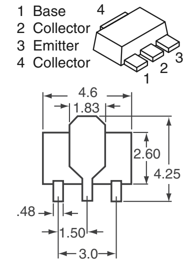

SC70-3

1 Base
2 Collector
3 Emitter

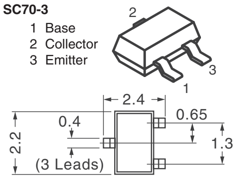

3-MLP

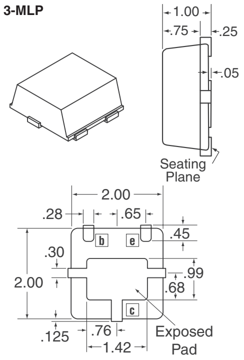

MSOP-8

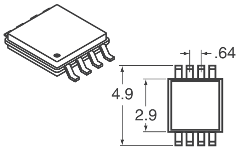

8-MSOP (Single) Pin out

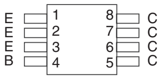

Low Saturation Transistors

30-50 Volts *(Cont.)*

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE				VCE (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@IC (mA)	@VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10		Qty.	Pricing
-40	-50	-3.0	80	—	-3000	-2	-0.39	-3000	-150	SOT23F-3	ZXTP07040DFFCT-ND◆	.79	.64	ZXTP07040DFFTR-ND◆	3,000	223.00/M
	-50	-2.0	200	—	-1000	-2	-0.350	-1000	-10	SOT-89	FCX790ACT-ND◆	.72	.58	FCX790ATR-ND◆	1,000	221.00
	-50	-3.0	250	—	-500	-2	-0.45	-1000	-10	SOT-223	FZT790ACT-ND◆	.97	.84	FZT790ATR-ND◆	1,000	352.00
	-40	-2.0	300	—	-10	-2	-0.040	-100	-10	SOT-23-6	ZXT10P40DE6TACT-ND	.66	.57	—	—	—
	-45	-1.5	15	—	-3000	-2	-0.3	-3000	-300	SOT23-3	ZXTP25040DFLCT-ND◆	.52	.42	ZXTP25040DFLTR-ND◆	3,000	147.00/M
	-40	-1.5	150	—	-1000	-2	-0.25	-1000	-50	SOT23-3	FMMT720CT-ND◆	.55	.44	FMMT720TR-ND◆	3,000	155.00/M
	-50	-1.0	100	300	-500	-2	-0.35	-1000	-100	SOT-223	FZT589CT-ND◆	.75	.65	FZT589TR-ND◆	1,000	272.00
	-45	-3.5	300	450	-900	-2	-0.90	-1000	-100	SOT-89	ZXTP25040DZCT-ND◆	.72	.58	ZXTP25040DZTR-ND◆	1,000	221.00
	-40	-1.0	300	800	-100	-5	-0.2	-100	-1	SOT23-3	ZXTP2041FCT-ND◆	.47	.38	ZXTP2041FTR-ND◆	3,000	107.00/M
	-40	-1.0	180	—	-500	-5	-0.3	-500	-25	SC70-3	ZUMT720CT-ND◆	.50	.40	ZUMT720TR-ND◆	3,000	140.00/M
	-40	-1.0	300	800	-100	-5	-0.35	-500	-20	SOT-89	FCX591ACT-ND◆	.66	.53	FCX591ATR-ND◆	1,000	204.00
	-40	-1.0	300	800	-100	-5	-0.35	-500	-20	SOT-223	FZT591ACT-ND◆	.75	.65	FZT591ATR-ND◆	1,000	272.00
	-40	-1.0	300	800	-100	-5	-0.35	-500	-20	SOT23-3	FMMT591ACT-ND◆	.54	.43	FMMT591ATR-ND◆	3,000	124.00/M
-45	-60	-0.80	250	630	-100	-1	-0.3	-100	-10	SOT23-3	BCW68HCT-ND◆	.53	.38	BCW68HTR-ND◆	3,000	76.00/M
-50	-50	-5.0	200	560	-500	-2	-20	-100	-10	SOT23-3	ZXTP2025FCT-ND◆	.92	.80	ZXTP2025FTR-ND◆	3,000	305.00/M

◆ ***RoHS Compliant***

D-PAK

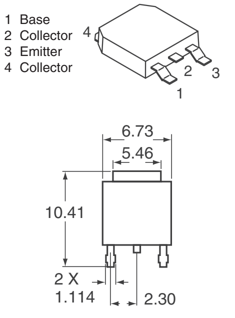

Medium Power Transistors

20-100 Volts

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE				VCE (sat)			Packaging Type	Digi-Key Part No.	Loose Piece Pricing			
			Min.	Max.	@IC (mA)	@VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10	100	1,000
NPN															
60	150	5.0	100	300	2000	1	0.25	5000	200	T092-3	ZTX851-ND◆	1.09	9.61	75.95	465.00
	150	4.5	100	300	2000	1	0.03	100	5	T092-3	ZX5T851A-ND	.87	7.68	60.72	371.74
	150	4.5	100	300	2000	1	0.065	1000	50	T092-3	ZXTN2010A-ND◆	1.01	8.93	70.60	432.00
	150	4.5	100	300	2000	1	0.065	1000	50	T092-3	ZXTN2010ASTZ-ND◆	1.01	8.93	70.60	432.00
	80	2.0	100	300	500	2	0.5	2000	200	T092-3	ZTX651-ND◆	.92	8.05	62.10	368.00
	80	1.0	50	150	150	10	0.35	150	15	T092-3	ZTX451-ND◆	.64	5.60	43.20	256.00
70	70	1.0	400	—	500	2	0.5	1000	10	T092-3	ZTX692B-ND◆	.95	8.37	66.15	405.00
75	150	3.0	300	1200	1000	2	0.25	3000	100	T092-3	ZTX1053A-ND◆	.98	8.68	68.60	420.00
100	200	4.0	100	300	2000	2	0.20	4000	400	T092-3	ZTX853-ND◆	1.09	9.61	75.95	465.00
	120	2.0	100	300	500	2	0.5	2000	200	T092-3	ZTX653-ND◆	.92	8.05	62.10	368.00
	120	1.0	40	200	150	10	0.7	150	15	T092-3	ZTX453-ND◆	.64	5.60	43.20	256.00
PNP															
-20	-40	-4.5	100	300	-1000	-1	-0.31	-300	-500	T092-3	ZTX948-ND◆ ***NEW!***	1.24	11.01	86.98	532.50
-60	-100	-4.0	100	300	-1000	-1	-0.30	-4000	-400	T092-3	ZTX951-ND◆	1.09	9.61	75.95	465.00
	-100	-3.5	100	300	-1000	-1	-0.065	-1000	-100	T092-3	ZXTP2012A-ND◆	.82	7.21	55.60	330.00
	-80	-2.0	100	300	-500	-2	-0.5	-2000	-200	T092-3	ZTX751-ND◆	.92	8.05	62.10	368.00
	-80	-1.0	50	150	-150	-10	-0.35	-150	-15	T092-3	ZTX551-ND	.55	4.81	37.11	219.90
-70	-75	-2.0	300	800	-10	-2	-0.5	-1000	-25	T092-3	ZTX792A-ND◆	1.12	9.95	78.65	481.50
-100	-140	-3.5	100	300	-1000	-1	-0.33	-4000	-400	T092-3	ZTX953-ND◆	1.24	11.01	86.98	532.50
	-120	-2.0	100	300	-500	-2	-0.5	-2000	-200	T092-3	ZTX753-ND◆	.92	8.05	62.10	368.00
	-120	-1.0	40	200	-150	-10	-0.25	-150	-15	T092-3	ZTX553-ND◆	.64	5.60	43.20	256.00

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE				VCE (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@IC (mA)	@VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10		Qty.	Pricing
NPN — RoHS Compliant																
20	60	1.25	200	—	1000	2	0.2	1000	100	SOT23-3	FMMTL618CT-ND	.62	.49	FMMTL618TR-ND	3,000	140.00/M
55	150	6.0	30	—	6000	2	0.35	2000	20	SOT-89	ZXTN19055DZCT-ND	.81	.71	ZXTN19055DZTR-ND	1,000	296.00
60	160	7.0	200	500	100	2	0.050	1000	100	SOT-223	ZXTN19060CGCT-ND	.95	.82	ZXTN19060CGTR-ND	1,000	344.00
	150	6.0	100	300	2000	1	0.17	2000	50	SOT-223	FZT851CT-ND	1.06	.96	FZT851TR-ND	1,000	420.00
	150	6.0	100	300	2000	1	0.03	100	5	SOT-223	ZX5T851GCT-ND	1.03	.92	ZX5T851GTR-ND	1,000	405.00
	150	6.0	100	300	2000	1	0.26	6000	300	PowerDI5	DXT2010P5-13CT-ND ***NEW!***	.70	.61	DXT2010P5-13TR-ND ***NEW!***	5,000	216.00/M
	160	5.5	30	—	6000	2	0.175	5500	550	SOT23F-3	ZXTN19060CFFCT-ND	.81	.71	ZXTN19060CFFTR-ND	3,000	268.00/M
	150	5.0	100	300	2000	1	0.055	1000	100	SOT-89	ZX5T851ZCT-ND	.70	.61	—	—	—
	150	5.0	100	300	2000	1	0.065	1000	50	SOT-89	ZXTN2010ZCT-ND	1.01	.88	ZXTN2010ZTR-ND	1,000	368.00
	150	5.0	45	—	2000	2	0.305	5000	500	SOT-89	ZXTN25060BZCT-ND	.72	.58	ZXTN25060BZTR-ND	1,000	221.00
	140	5.0	100	300	2000	1	30	100	5	SOT23-3	ZXTN2018FCT-ND	.92	.80	ZXTN2018FTR-ND	3,000	305.00/M
	150	3.5	25	—	0.0035	2	0.040	500	50	SOT23-3	ZXTN25060BFHCT-ND	.66	.57	ZXTN25060BFHTR-ND	3,000	218.00/M
	120	1.0	100	—	500	10	0.5	1000	100	SOT23-3	FMMT493ACT-ND	.54	.43	FMMT493ATR-ND	3,000	124.00/M
	80	3.0	100	300	500	2	0.6	1000	100	SOT-223	FZT651CT-ND	.75	.65	FZT651TR-ND	1,000	272.00
	80	1.0	100	300	500	2	0.5	1000	100	SC70-3	ZUMT491CT-ND	.58	.46	ZUMT491TR-ND	3,000	132.00/M
	80	1.0	100	300	500	5	0.5	1000	100	SOT-89	FCX491CT-ND	.58	.47	FCX491TR-ND	1,000	179.00
	80	1.0	100	300	500	5	0.3	500	50	SOT23-3	FMMT491CT-ND	.54	.43	FMMT491TR-ND	3,000	124.00/M
	80	1.0	100	300	500	5	0.25	500	50	SOT-223	FZT491CT-ND	.75	.65	FZT491TR-ND	1,000	272.00
	80	1.0	100	300	500	5	0.2	100	2	SOT23-3	ZXTN2038FCT-ND	.47	.38	ZXTN2038FTR-ND	3,000	107.00/M
	80	1.0	50	150	150	10	0.35	150	15	SOT23-3	FMMT451CT-ND	.47	.38	FMMT451TR-ND	3,000	107.00/M
70	70	2.0	400	—	500	2	0.15	100	0.5	SOT-223	FZT692BCT-ND	.97	.84	FZT692BTR-ND	1,000	352.00
75	150	5.0	260	—	10	2	0.095	1000	100	D-PAK	ZXT1053AKCT-ND	1.06	.92	ZXT1053AKTR-ND	2,500	348.00/M
	150	4.5	300	1200	500	2	0.21	2000	100	SOT-223	FZT1053ACT-ND	.95	.82	FZT1053ATR-ND	1,000	344.00
	150	3.0	270	1200	1000	2	0.25	3000	100	SOT-89	FCX1053ACT-ND	.84	.73	FCX1053ATR-ND	1,000	304.00
80	100	3.5	300	900	200	2	0.325	3500	300	3-DFN	ZXTN620MATACT-ND ***NEW!***	.66	.53	ZXTN620MATATR-ND ***NEW!***	3,000	186.00/M
	100	3.5	300	900	200	2	20	100	10	3-MLP	ZXTEM322CT-ND	.84	.73	ZXTEM322TR-ND	3,000	277.00/M
	80	1.5	300	900	200	2	0.20	1500	50	SOT23-3	FMMT620CT-ND	.70	.56	FMMT620TR-ND	3,000	197.00/M
	100	1.0	100	250	150	2	0.5	500	50	SOT-89	BCX5616CT-ND	.58	.42	BCX5616TR-ND	1,000	110.00
	90	1.0	100	300	100	5	0.25	150	15	SOT-89	BSR43CT-ND	.58	.46	BSR43TR-ND	1,000	144.00
	80	0.50	50	—	100	10	0.25	100	10	SOT23-3	FMMTA06CT-ND	.56	.40	FMMTA06TR-ND	3,000	80.00/M

◆ ***RoHS Compliant*** § Tape and Box

(Continued)

TO-92

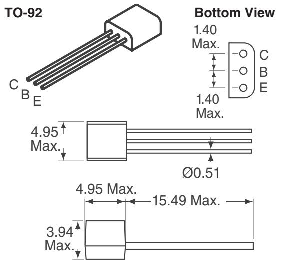

SC70-3

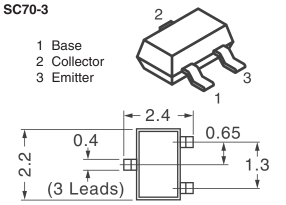

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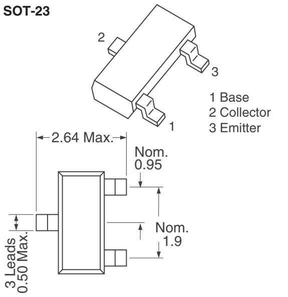

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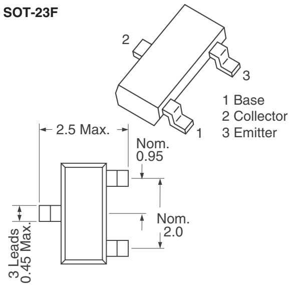

3-DFN ***NEW!***

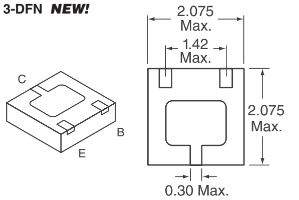

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Medium Power Transistors

20-100 Volts *(Cont.)*

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE				VCE (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@IC (mA)	@VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10		Qty.	Pricing
100	200	6.0	100	300	2000	2	0.22	5,000	500	PowerDI5	DXT2011P5-13CT-ND ***NEW!***	.70	.61	DXT2011P5-13TR-ND ***NEW!***	5,000	216.00/M
	200	6.0	100	300	2000	2	0.15	2000	100	SOT-223	FZT853CT-ND	1.06	.96	FZT853TR-ND	1,000	420.00
	200	6.0	100	300	2000	2	0.065	1000	100	SOT-223	ZX5T853GCT-ND	1.03	.92	ZX5T853GTR-ND	1,000	405.00
	200	6.0	100	300	2000	2	0.065	1000	100	SOT-223	ZXTN2011GCT-ND	.95	.85	ZXTN2011GTR-ND	1,000	375.00
	200	5.5	200	500	100	2	0.065	1000	100	SOT-223	ZXTN19100CGCT-ND	.95	.82	ZXTN19100CGTR-ND	1,000	344.00
	200	5.25	200	500	100	2	0.065	1000	100	SOT-89	ZXTN19100CZCT-ND	.87	.76	ZXTN19100CZTR-ND	1,000	317.00
	200	4.5	100	300	2000	2	0.06	1000	100	SOT-89	ZXTN2011ZCT-ND	1.01	.88	ZXTN2011ZTR-ND	1,000	368.00
	200	4.5	10	—	10,000	2	0.195	5000	500	SOT-89	ZX5T853ZCT-ND	.82	.74	—	—	—
	200	4.5	130	—	1000	2	0.235	4500	450	SOT23F-3	ZXTN19100CFFCT-ND	.81	.71	ZXTN19100CFFTR-ND	3,000	268.00/M
	160	4.0	100	300	1000	2	30	100	5	SOT23-3	ZXTN2020FCT-ND	.92	.80	ZXTN2020FTR-ND	3,000	305.00/M
	180	3.0	300	900	10	2	0.17	500	10	SOT-223	ZXTN25100DGCT-ND	.66	.57	ZXTN25100DGTR-ND	1,000	240.00
	170	3.0	—	—	3000	2	0.055	500	50	SOT23-3	ZXTN25100BFHCT-ND	.66	.57	ZXTN25100BFHTR-ND	3,000	218.00/M
	180	2.5	300	900	10	2	0.17	500	10	SOT-89	ZXTN25100DZCT-ND	.72	.58	ZXTN25100DZTR-ND	1,000	221.00
	180	2.5	300	900	10	2	170	500	10	SOT23-3	ZXTN25100DFHCT-ND	.66	.57	ZXTN25100DFHTR-ND	3,000	218.00/M
	120	2.0	100	300	500	2	0.3	1000	100	SOT-223	FZT653CT-ND	.79	.69	FZT653TR-ND	1,000	288.00
	100	1.5	1000	—	1000	5	1.5	100	0.1	SOT-223	FZT7053TACT-ND ***NEW!***	.70	.61	FZT7053TATR-ND ***NEW!***	1,000	238.00
	120	1.0	100	300	250	10	0.3	500	50	SOT-89	FCX493CT-ND	.58	.47	FCX493TR-ND	1,000	179.00
	120	1.0	100	300	250	10	0.25	500	50	SOT23-3	FMMT493CT-ND	.54	.43	FMMT493TR-ND	3,000	124.00/M
	120	1.0	100	300	250	10	0.3	500	50	SOT-223	FZT493CT-ND	.75	.65	FZT493TR-ND	1,000	272.00
PNP — RoHS Compliant																
-60	-100	-6.0	100	—	-10	-1	-0.09	-1000	-100	D-PAK	ZXT951KCT-ND	1.57	1.41	ZXT951KTR-ND	2,500	580.00/M
	-100	-5.5	100	300	-2000	-1	-0.25	-5000	-500	PowerDI5	DXT2012P5-13CT-ND ***NEW!***	.70	.61	DXT2012P5-13TR-ND ***NEW!***	5,000	216.00/M
	-100	-5.5	100	300	-2000	-1	-0.07	-1000	-100	SOT-223	ZX5T951GCT-ND	1.03	.92	ZX5T951GTR-ND	1,000	405.00
	-100	-5.5	100	300	-2000	-1	-0.07	-1000	-100	SOT-223	ZXTP2012GCT-ND	.95	.85	ZXTP2012GTR-ND	1,000	375.00
	-100	-5.0	100	300	-2000	-1	-0.21	-2000	-200	SOT-223	FZT951CT-ND	1.14	1.02	FZT951TR-ND	1,000	450.00
	-60	-5.0	200	500	-100	-2	-0.08	-1000	-100	SOT-223	ZXTP19060CGCT-ND	.95	.82	ZXTP19060CGTR-ND	1,000	344.00
	-60	-4.5	200	500	-100	-2	0.08	-1000	-100	SOT-89	ZXTP19060CZCT-ND	.87	.76	ZXTP19060CZTR-ND	1,000	317.00
	-100	-4.3	100	300	-2000	-1	-0.065	-1000	-100	SOT-89	ZXTP2013ZCT-ND	1.01	.88	ZXTP2013ZTR-ND	1,000	368.00
	-100	-4.3	100	300	-2000	-1	-0.065	-1000	-100	SOT-89	ZXTP2012ZCT-ND	1.01	.88	ZXTP2012ZTR-ND	1,000	368.00
	-100	-4.0	100	300	-2000	-2	-25	-100	-10	SOT23-3	ZXTP2027FCT-ND	.92	.80	ZXTP2027FTR-ND	3,000	305.00/M
	-60	-4.0	200	500	-100	-2	-75	-1000	-100	SOT23F-3	ZXTP19060CFFCT-ND	.81	.71	ZXTP19060CFFTR-ND	3,000	268.00/M
	-100	-3.5	100	—	-10	-1	-0.02	-100	-10	TO92-3	ZXTP2012ASCT-ND	.91	.79	ZXTP2012ASTB-ND§	2,000	298.70/M
	-100	-3.0	30	—	-3000	-2	-0.055	-500	-50	SOT23-3	ZXTP25060BFHCT-ND	.66	.57	ZXTP25060BFHTR-ND	3,000	218.00/M
	-80	-3.0	100	300	-500	-2	-0.3	-1000	-100	SOT-223	FZT751CT-ND	.97	.84	FZT751TR-ND	1,000	354.00
	-80	-1.0	100	300	-500	-5	-0.6	-1000	-100	SOT-89	FCX591CT-ND	.58	.47	FCX591TR-ND	1,000	179.00
	-80	-1.0	100	300	-500	-5	-0.3	-500	-50	SOT23-3	FMMT591CT-ND	.54	.43	FMMT591TR-ND	3,000	124.00/M
	-80	-1.0	100	300	-500	-5	-0.3	-500	-50	SOT-223	FZT591CT-ND	.75	.65	FZT591TR-ND	1,000	272.00
	-80	-1.0	50	150	-150	-10	-0.35	-150	-15	SOT23-3	FMMT551CT-ND	.54	.43	FMMT551TR-ND	3,000	124.00/M
-70	-70	-2.5	300	—	-10	-5	-50	-100	-10	3-MLP	ZXT4M322CT-ND	.84	.73	ZXT4M322TR-ND	3,000	277.00/M
	-70	-2.5	40	—	-1500	-5	-0.26	-1500	-200	3-DFN	ZXTP722MATACT-ND ***NEW!***	.66	.53	ZXTP722MATATR-ND ***NEW!***	3,000	186.00/M
	-75	-2.0	250	—	-500	-2	-0.5	-1000	-25	SC70-3	FZT792ACT-ND	.97	.84	FZT792ATR-ND	1,000	352.00
	-70	-1.5	150	—	-1000	-5	-0.30	-500	-20	SOT23-3	FMMT722CT-ND	.70	.56	FMMT722TR-ND	3,000	197.00/M
-80	-140	-5.0	100	—-	-10	-1	-0.1	-1000	-100	D-PAK	ZXT953KCT-ND	1.57	1.41	ZXT953KTR-ND	2,500	580.00/M
	-140	-5.0	100	300	-1000	-1	-0.09	-1000	-100	SOT-223	ZX5T953GCT-ND	1.03	.92	ZX5T953GTR-ND	1,000	405.00
	-140	-5.0	100	300	-1000	-1	-0.09	-1000	-100	SOT-223	ZXTP2013GCT-ND	.95	.85	ZXTP2013GTR-ND	1,000	375.00
	-140	-5.0	100	300	-1000	-1	-0.22	-2000	-200	SOT-223	FZT953CT-ND	1.14	1.02	FZT953TR-ND	1,000	450.00
	-140	-3.5	100	300	-1000	-1	-0.085	-1000	-100	SOT-89	ZXTP2013ZCT-ND	1.01	.88	ZXTP2013ZTR-ND	1,000	368.00
	-100	-1.0	100	250	-150	-2	-0.5	-500	-50	SOT-89	BCX5316CT-ND	.58	.42	BCX5316TR-ND	1,000	110.00
	-90	-1.0	100	300	-100	-5	-0.25	-150	-15	SOT-89	BSR33CT-ND	.58	.46	BSR33TR-ND	1,000	144.00
	-80	-1.0	100	300	-500	-5	-0.2	-100	-2	SOT23-3	ZXTP2039FCT-ND	.47	.38	ZXTP2039FTR-ND	3,000	107.00/M
	-80	-0.50	50	—	-100	-1	-0.25	-100	-10	SOT23-3	FMMTA56CT-ND	.56	.40	FMMTA56TR-ND	3,000	80.00/M
-100	-140	-3.5	15	—	-4000	-1	-0.30	-4000	-400	SOT-89	ZX5T953ZCT-ND	.76	.66	—	—	—
	-130	-3.0	100	300	-1000	-2	-30	-100	-10	SOT23-3	ZXTP2029FCT-ND	.92	.80	ZXTP2029FTR-ND	3,000	305.00/M
	-140	-2.0	15	—	-2000	-2	-0.090	-500	-50	SOT23-3	ZXTP25100BFHCT-ND	.66	.57	ZXTP25100BFHTR-ND	3,000	218.00/M
	-140	-5.0	100	300	-1000	-1	-0.34	-4000	-400	PowerDI5	DXT2013P5-13CT-ND ***NEW!***	.70	.61	DXT2013P5-13TR-ND ***NEW!***	5,000	216.00/M
	-120	-2.0	100	300	-500	-2	-0.3	-1000	-100	SOT-223	FZT753CT-ND	.97	.84	FZT753TR-ND	1,000	354.00
	-110	-2.0	200	500	-100	-2	-0.13	-500	-20	SOT23F-3	ZXTP19100CFFCT-ND	.81	.71	ZXTP19100CFFTR-ND	3,000	268.00/M
	-110	-2.0	200	500	-100	-2	-0.13	-500	-20	SOT-223	ZXTP19100CGCT-ND	.95	.82	ZXTP19100CGTR-ND	1,000	344.00
	-110	-2.0	200	500	-100	-2	-0.13	-500	-20	SOT-89	ZXTP19100CZCT-ND	.87	.76	ZXTP19100CZTR-ND	1,000	317.00
	-115	-1.0	200	500	-10	-2	-0.21	-100	-1	SOT23-3	ZXTP25100CFHCT-ND	.66	.57	ZXTP25100CFHTR-ND	3,000	218.00/M
	-115	-1.0	200	500	-10	-2	-0.21	-100	-1	SOT-89	ZXTP25100CZCT-ND	.72	.58	ZXTP25100CZTR-ND	1,000	221.00
	-120	-1.0	100	300	-500	-5	-0.3	-500	-50	SOT-89	FCX593CT-ND	.66	.53	FCX593TR-ND	1,000	204.00
	-120	-1.0	100	300	-500	-10	-0.3	-500	-50	SOT23-3	FMMT593CT-ND	.54	.43	FMMT593TR-ND	3,000	124.00/M
	-120	-1.0	100	300	-500	-2	-0.3	-500	-50	SOT-223	FZT593CT-ND	.75	.65	FZT593TR-ND	1,000	272.00
	-100	-1.0	250	—	-500	-10	-0.20	-500	-50	SOT23-3	FMMT723CT-ND	.70	.56	FMMT723TR-ND	3,000	197.00/M

◆ ***RoHS Compliant*** § Tape and Box

SOT-89

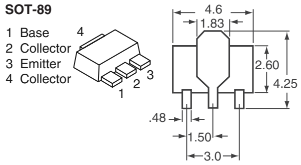

SOT-223

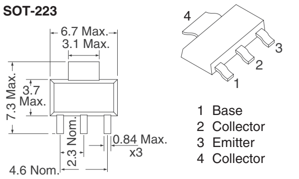

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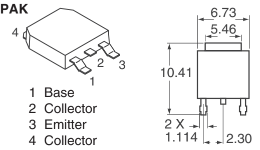

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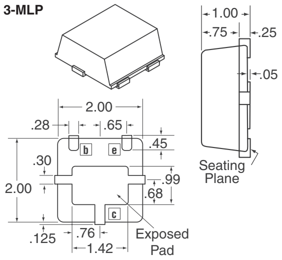

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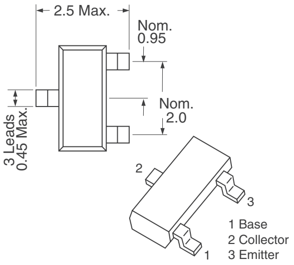

PowerDI5 ***NEW!***

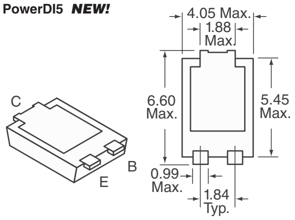

High Voltage Transistors

120-250 Volts

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE				VCE (sat)			Packaging Type	Digi-Key Part No.	Loose Piece Pricing			
			Min.	Max.	@IC (mA)	@VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10	100	1,000
NPN															
120	120	0.5	400	—	200	2	0.5	400	5	TO92-3	ZTX694B-ND◆	.95	8.37	66.15	405.00
140	160	1.0	100	300	150	10	0.7	150	15	TO92-3	ZTX455-ND◆	.67	5.60	42.00	238.00
150	250	4.0	100	300	1000	5	0.26	4000	400	TO92-3	ZTX855-ND◆	1.09	9.61	75.95	465.00
180	180	0.5	500	—	100	5	0.25	200	5	TO92-3	ZTX696B-ND	.81	7.20	56.92	348.50
PNP — RoHS Compliant															
-140	-180	-3.0	100	300	-1000	-5	-60	-100	-5	TO92-3	ZTX955-ND ***NEW!***	1.24	11.01	86.98	532.50
	-140	-0.5	300	800	-10	-2	-0.3	-200	-5	TO92-3	ZTX795A-ND	1.12	9.95	78.65	481.50
-200	-220	-2.0	100	300	-1000	-5	-0.25	-2000	-400	TO92-3	ZTX956-ND	1.24	11.01	86.98	532.50
	-200	-0.5	300	800	-10	-10	-0.3	-200	-20	TO92-3	ZTX796A-ND	1.08	9.58	75.71	463.50

◆ ***RoHS Compliant***

(Continued)

TO-92

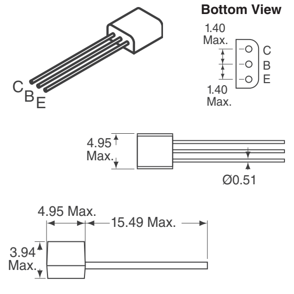

A Product Line of
Diodes Incorporated

High Voltage Transistors

120-250 Volts *(Cont.)*

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
NPN																
120	120	1.0	400	—	200	2	0.25	100	0.5	SOT-223	FZT694BCT-ND◆	.97	.84	FZT694BTR-ND◆	1,000	352.00
	140	1.0	100	300	250	10	0.2	250	25	SOT23-3	FMMT494CT-ND◆	.54	.43	FMMT494TR-ND◆	3,000	124.00/M
	120	0.5	500	—	100	2	0.25	100	0.5	SOT-223-8	ZDT694CT-ND◆	1.30	1.17	ZDT694TR-ND◆	1,000	513.00
125	125	1.0	100	—	1000	10	0.25	1000	50	SOT23-3	FMMT624CT-ND◆	.70	.56	FMMT624TR-ND◆	3,000	197.00/M
140	160	1.0	100	300	150	10	0.7	150	15	SOT23-3	FMMT455CT-ND◆	.54	.43	FMMT455TR-ND◆	3,000	124.00/M
150	200	5.0	100	300	1000	5	0.11	1000	100	SOT-223	FZT855CT-ND◆	1.06	.96	FZT855TR-ND◆	1,000	420.00
	150	1.0	50	—	500	5	0.5	500	50	SOT-223	FZT655CT-ND◆	.79	.69	FZT655TR-ND◆	1,000	288.00
	170	1.0	100	300	250	10	0.3	500	50	SOT-89	FCX495CT-ND◆	.58	.47	FCX495TR-ND◆	1,000	179.00
	150	1.0	300	—	200	10	0.3	1000	50	SOT23-3	FMMT625CT-ND◆	.70	.56	FMMT625TR-ND◆	3,000	197.00/M
	170	1.0	100	300	250	10	0.2	250	25	SOT23-3	FMMT495CT-ND◆	.47	.38	FMMT495TR-ND◆	3,000	107.00/M
160	180	0.6	80	250	10	5	0.2	50	5	PowerDI5	DXT5551P5-13CT-ND◆ ***NEW!***	.61	.49	DXT5551P5-13TR-ND◆ ***NEW!***	5,000	160.00/M
	180	0.6	80	—	1	5	150	10	1	SOT23-3	ZXTN5551FLCT-ND◆	.56	.40	ZXTN5551FLTR-ND◆	3,000	80.00/M
	180	0.6	80	—	1	5	150	10	1	SOT-223	ZXTN5551GCT-ND◆	.55	.44	ZXTN5551GTR-ND◆	1,000	170.00
	180	0.6	80	—	1	5	150	10	1	SOT-89	ZXTN5551ZCT-ND◆	.58	.46	ZXTN5551ZTR-ND◆	1,000	144.00
180	180	0.5	500	—	100	5	0.25	200	5	SOT-223	FZT696BCT-ND◆	.97	.84	FZT696BTR-ND◆	1,000	352.00
PNP																
-140	-180	-4.0	100	300	-1000	-5	-0.36	-3000	-300	PowerDI5	DXT2014P5-13CT-ND◆ ***NEW!***	.75	.65	DXT2014P5-13TR-ND◆ ***NEW!***	5,000	230.00/M
	-180	-4.0	100	300	-1000	-5	-0.15	-1000	-100	SOT-223	FZT955CT-ND	1.14	1.02	FZT955TR-ND	1,000	450.00
	-180	-4.0	100	300	-1000	-5	-0.12	-1000	-100	SOT-223	ZX5T955GCT-ND◆	1.03	.92	ZX5T955GTR-ND◆	1,000	405.00
	-180	-4.0	100	300	-1000	-5	-0.12	-1000	-100	SOT-223	ZXTP2014GCT-ND◆	.95	.85	ZXTP2014GTR-ND◆	1,000	375.00
	-180	-3.0	100	300	-1000	-5	-0.06	-100	-5	SOT-89	ZX5T955ZCT-ND◆	1.03	.90	ZX5T955ZTR-ND◆	1,000	376.00
	-180	-3.0	100	300	-1000	-5	-60	-100	-5	T092-3	ZTX955-ND◆ ***NEW!***	1.24	1.11	—	—	—
	-180	-3.0	100	300	-1000	-5	-0.115	-1000	-100	SOT-89	ZXTP2014ZCT-ND◆	1.01	.88	ZXTP2014ZTR-ND◆	1,000	368.00
	-180	-1.0	100	300	-10	-2	-50	-100	-10	SOT23-3	ZXTP25140BFHCT-ND◆	.66	.57	ZXTP25140BFHTR-ND◆	3,000	218.00/M
	-160	-2.5	100	300	-1000	-5	-55	-100	-5	SOT23-3	ZXTP23140BFHCT-ND◆	.92	.80	ZXTP23140BFHTR-ND◆	3,000	305.00/M
	-140	-0.5	250	—	-200	-2	-0.3	-200	-5	SOT-223	FZT795ACT-ND◆	.97	.84	FZT795ATR-ND◆	1,000	352.00
-150	-150	-1.0	50	—	-500	-5	-0.5	-500	-50	SOT-223	FZT755CT-ND	.97	.84	FZT755TR-ND	1,000	354.00
	-160	-0.6	50	—	-1	-5	-0.2	-10	-1	SOT23-3	ZXTP5401FLCT-ND◆	.56	.40	ZXTP5401FLTR-ND◆	3,000	80.00/M
	-160	-0.6	50	—	-1	-5	-0.2	-10	-1	SOT-223	ZXTP5401GCT-ND◆	.55	.44	ZXTP5401GTR-ND◆	1,000	170.00
	-160	-0.6	50	—	-1	-5	-0.2	-10	-1	SOT-89	ZXTP5401ZCT-ND◆	.58	.46	ZXTP5401ZTR-ND◆	1,000	144.00
-180	-180	-0.7	100	300	-100	-5	-0.4	-250	-25	SOT-89	FCX555CT-ND◆	.68	.55	FCX555TR-ND◆	1,000	209.00
-200	-220	-2.0	100	—	-10	-5	-0.05	-100	-10	T092-3	ZTX956STOACT-ND◆	1.16	1.04	—	—	—
	-220	-2.0	100	300	-1000	-5	-0.165	-1000	-100	SOT-223	FZT956CT-ND◆	1.14	1.02	FZT956TR-ND◆	1,000	450.00
	-220	-0.3	85	300	-250	-10	-0.35	-250	-25	SOT-89	FCX596CT-ND◆	.66	.53	FCX596TR-ND◆	1,000	204.00
	-220	-0.5	100	300	-250	-10	-0.35	-250	-25	SOT23-3	FMMT596CT-ND◆	.50	.40	FMMT596TR-ND◆	3,000	140.00/M
	-200	-0.5	250	—	-300	-10	-0.3	-200	-20	SOT-223	FZT796ACT-ND◆	.75	.65	FZT796ATR-ND◆	1,000	272.00

300-500 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 10	Loose Piece Pricing 100	Loose Piece Pricing 1,000
NPN — RoHS Compliant															
300	300	0.5	50	—	100	5	0.5	100	10	T092-3	ZTX657-ND	.92	8.15	64.44	394.50
	300	0.5	50	300	50	10	0.3	100	10	T092-3	ZTX457-ND	.64	5.60	43.20	256.00
	330	3.0	100	300	500	10	100	0.5	50	T092-3	ZTX857-ND	1.24	11.01	86.98	532.50
400	400	0.5	50	—	100	5	0.5	100	10	T092-3	ZTX658-ND	.92	8.15	64.44	394.50
	400	0.3	100	300	50	10	0.5	50	6	T092-3	ZTX458-ND	.67	5.60	42.00	238.00
PNP — RoHS Compliant															
-300	-300	-0.5	50	—	-100	-5	-0.5	-100	-10	T092-3	ZTX757-ND	.82	7.21	55.62	329.60
	-300	-0.5	50	300	-50	-10	-0.3	-50	-5	T092-3	ZTX557-ND	.57	4.80	36.02	204.09
-400	-400	-0.5	100	300	-500	-10	-0.40	-500	-100	T092-3	ZTX958-ND	1.24	11.01	86.98	532.50
	-400	-0.5	50	—	-100	-5	-0.5	-100	-10	T092-3	ZTX758-ND	.92	8.15	64.44	394.50
	-400	-0.2	100	300	-50	-10	-0.5	-50	-6	T092-3	ZTX558-ND	.64	5.60	43.20	256.00
-500	-500	-0.15	100	300	-1	-10	-0.2	-20	-2	T092-3	ZTX560-ND	.66	5.78	44.55	264.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
NPN																
300	350	3.5	100	300	1000	5	0.23	2000	200	SOT-223	FZT857CT-ND◆	1.06	.96	FZT857TR-ND◆	1,000	420.00
	300	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT657CT-ND◆	.79	.69	FZT657TR-ND◆	1,000	288.00
	300	0.5	40	—	30	10	0.5	20	2	SOT-89	SXTA42CT-ND◆	.58	.46	SXTA42TR-ND◆	1,000	144.00
	300	0.5	100	—	100	10	0.2	100	10	SOT23-3	FMMT497CT-ND◆	.54	.43	FMMT497TR-ND◆	3,000	124.00/M
	300	0.2	40	—	30	10	0.5	20	2.0	SOT23-3	FMMTA42CT-ND◆	.56	.40	FMMTA42TR-ND◆	3,000	80.00/M
	300	0.5	25	—	1	10	0.5	20	2.0	SOT-223	FZTA42CT-ND◆	.61	.49	FZTA42TR-ND◆	1,000	187.00
350	400	0.5	40	—	20	10	0.5	50	4	SOT-89	BST39CT-ND◆	.58	.46	BST39TR-ND◆	1,000	144.00
	350	0.5	30	200	30	10	1.0	50	5	SOT23-3	FMMT6517CT-ND◆	.47	.38	FMMT6517TR-ND◆	3,000	107.00/M
400	400	0.5	35	—	200	10	0.2	100	10	SOT-89	FCX658ACT-ND◆	.82	.66	FCX658ATR-ND◆	1,000	253.00
	400	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT658CT-ND	.79	.69	FZT658TR-ND	1,000	288.00
	450	0.5	10	—	500	10	0.175	500	100	SOT23F-3	ZXTN08400BFFCT-ND◆	.72	.58	ZXTN08400BFFTR-ND◆	3,000	202.00/M
	400	0.3	100	300	50	10	0.5	50	6	PowerDI5	DXT458P5-13CT-ND◆ ***NEW!***	.61	.49	DXT458P5-13TR-ND◆ ***NEW!***	5,000	160.00/M
	400	0.3	100	300	50	10	0.2	20	2	SOT-223	FZT458CT-ND◆	.75	.65	FZT458TR-ND◆	1,000	272.00
	400	0.225	100	300	50	10	0.5	50	6	SOT-89	FCX458CT-ND◆	.58	.47	FCX458TR-ND◆	1,000	179.00
	400	0.225	100	300	50	10	0.2	20	2	SOT23-3	FMMT458CT-ND◆	.54	.43	FMMT458TR-ND◆	3,000	124.00/M
450	500	0.15	50	—	30	10	0.075	20	2.0	SOT23-3	FMMT459TACT-ND◆	.71	.57	FMMT459TATR-ND◆	3,000	200.00/M
PNP — RoHS Compliant																
-300	-300	-1.0	100	300	-500	-10	-0.24	-1000	-300	SOT-223	FZT957CT-ND	1.14	1.02	FZT957TR-ND	1,000	450.00
	-300	-0.5	50	—	-100	-5	-0.5	-100	-10	SOT-223	FZT757CT-ND	.97	.84	FZT757TR-ND	1,000	354.00
	-300	-0.2	100	—	-100	-10	-0.25	-100	-20	SOT23-3	FMMT597CT-ND	.50	.40	FMMT597TR-ND	3,000	140.00/M
	-300	-0.2	25	—	-30	-10	-0.5	-20	-2	SOT23-3	FMMTA92CT-ND	.56	.40	FMMTA92TR-ND	3,000	80.00/M
-350	-350	-0.5	30	200	-30	-10	-0.5	-30	-3	SOT23-3	FMMT6520CT-ND	.47	.38	FMMT6520TR-ND	3,000	107.00/M
-400	-400	-0.5	100	300	-500	-10	-0.40	-500	-100	SOT-223	FZT958CT-ND	1.14	1.02	FZT958TR-ND	1,000	450.00
	-400	-0.5	50	—	-100	-5	-0.5	-100	-10	SOT-223	FZT758CT-ND	.97	.84	FZT758TR-ND	1,000	354.00
	-400	-0.2	100	300	-50	-10	-0.5	-50	-6	SOT-223	FZT558CT-ND	.75	.65	FZT558TR-ND	1,000	272.00
	-400	-0.2	100	300	-50	-10	-0.5	-50	-6	SOT-89	FCX558CT-ND	.66	.53	FCX558TR-ND	1,000	204.00
	-400	-0.2	100	—	-200	-10	-0.19	-200	-40	SOT23-3	ZXTP08400BFFCT-ND	.72	.58	ZXTP08400BFFTR-ND	3,000	202.00/M
	-400	-0.15	100	300	-50	-10	-0.2	-20	-2	SOT23-3	FMMT558CT-ND	.54	.43	FMMT558TR-ND	3,000	124.00/M
-500	-500	-0.5	80	—	-50	-10	-0.2	-20	-2	SOT23-3	FMMT560CT-ND	.61	.49	FMMT560TR-ND	3,000	171.00/M
	-500	-0.15	80	300	-50	-10	-0.2	-20	-2	SOT-223	FZT560CT-ND	.84	.73	FZT560TR-ND	1,000	304.00

◆ *RoHS Compliant*

SOT-223

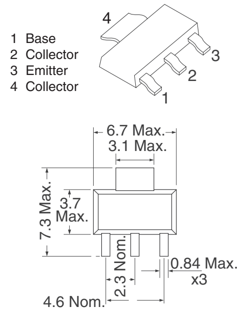

SOT-23

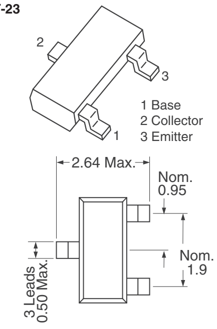

SM-8
(SOT223-8)

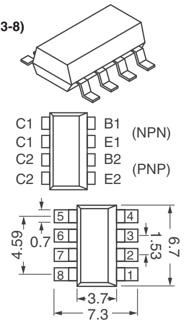

SOT-89

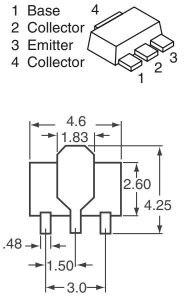

PowerDI5 ***NEW!***

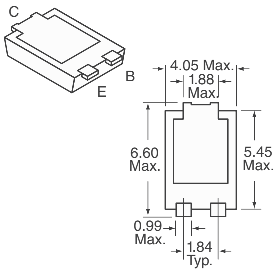

Darlington

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
										NPN — RoHS Compliant					
60	80	800	5000	—	100	5	1.25	800	8	TO92-3	BCX38C-ND	.59	5.00	37.50	212.50
80	100	1.0	2K	100K	1000	5	1.0	1000	1	TO92-3	ZTX603-ND	.92	8.15	64.44	394.50
100	120	0.8	10K	—	500	5	1.25	800	8	TO92-3	ZTX614-ND	.67	5.60	42.00	238.00
120	140	1.0	2K	100K	1000	5	1.5	1000	1	TO92-3	ZTX605-ND	.92	8.15	64.44	394.50
160	180	1.0	2K	100K	500	10	1.2	1000	10	TO92-3	ZTX601-ND	.92	8.15	64.44	394.50
160	180	1.0	10K	100K	500	10	1.2	1000	10	TO92-3	ZTX601B-ND	.92	8.15	64.44	394.50
										PNP					
-120	-140	-1.0	3K	30K	-1000	-5	-1.3	-1000	-1	TO92-3	ZTX705-ND	.79	7.02	55.45	339.47

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
											NPN — RoHS Compliant					
30	30	1.0	5K	—	1000	5	1.6	1000	1	SOT-223	FZTA14CT-ND	.61	.49	FZTA14TR-ND	1,000	187.00
	30	0.3	5K	—	10	5	1.5	100	0.1	SOT23-3	FMMTA13CT-ND	.51	.40	FMMTA13TR-ND	3,000	116.00/M
	30	0.3	10K	—	10	5	1.5	100	0.1	SOT23-3	FMMTA14CT-ND	.51	.40	FMMTA14TR-ND	3,000	116.00/M
60	80	0.5	2K	—	500	5	1.0	100	0.1	SOT23-3	BCV47CT-ND	.64	.44	BCV47TR-ND	3,000	60.00/M
	80	0.5	2K	—	100	1	1.0	100	0.1	SOT-89	BCV49CT-ND	.54	.43	BCV49TR-ND	1,000	135.00
	80	0.3	10K	—	300	5	1.25	800	8.0	SOT23-3	FMMT38CCT-ND	.51	.40	FMMT38CTR-ND	3,000	116.00/M
80	100	2.0	5K	100K	500	5	1.0	1000	1	SOT-223	FZT603CT-ND	.79	.69	FZT603TR-ND	1,000	288.00
	90	0.5	2K	—	500	10	1.3	500	0.5	SOT-89	BST52CT-ND	.58	.46	BST52TR-ND	1,000	144.00
100	120	0.9	5K	—	2000	5	0.85	500	5	SOT23-3	FMMT634CT-ND	.70	.56	FMMT634TR-ND	3,000	197.00/M
	120	0.5	5K	—	500	5	1.0	500	5	SOT23-3	FMMT614CT-ND	.50	.40	FMMT614TR-ND	3,000	140.00/M
120	140	2.0	5K	—	500	5	1.0	250	0.25	SOT-223	FZT605CT-ND	.79	.69	FZT605TR-ND	1,000	288.00
	140	1.0	1K	—	2000	5	1.5	2000	5	SOT23F-3	ZXTN04120HFFCT-ND	.72	.58	ZXTN04120HFFTR-ND	3,000	202.00/M
	140	1.0	2K	—	1000	5	1.0	250	0.25	SOT-89	FCX605CT-ND	.82	.66	FCX605TR-ND	1,000	253.00
140	160	2.0	1K	—	1000	10	1.2	1000	10	SOT-223	FZT600CT-ND	.79	.69	FZT600TR-ND	1,000	288.00
	160	2.0	1K	100K	1000	10	1.1	500	5	SOT-223	FZT600BCT-ND	.79	.69	FZT600BTR-ND	1,000	288.00
											PNP — RoHS Compliant					
-60	-80	-0.5	2K	—	-500	-5	-1.0	-100	-0.1	SOT23-3	BCV46CT-ND	.54	.43	BCV46TR-ND	3,000	124.00/M
-100	-100	-0.8	15K	—	-1000	-5	-1.05	-1000	-5	SOT23-3	FMMT734CT-ND	.70	.56	FMMT734TR-ND	3,000	197.00/M
-120	-140	-2.0	3K	30K	-1000	-5	-1.3	-1000	-1	SOT-223	FZT705CT-ND	.97	.84	FZT705TR-ND	1,000	354.00
	-140	-1.0	3K	30K	-1000	-5	-1.3	-1000	-1	SOT-89	FCX705CT-ND	.82	.66	FCX705TR-ND	1,000	253.00
	-140	-1.0	2K	—	-2000	-5	-2.0	-2000	-2	SOT23F-3	ZXTP05120HFFCT-ND	.72	.58	ZXTP05120HFFTR-ND	3,000	202.00/M

RF - NPN

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
11	20	50	56	180	5	10	0.5	25	5	SOT-23-3	BFS17NTACT-ND◆ ***NEW!***	.50	.40	BFS17NTATR-ND◆ ***NEW!***	3,000	140.00/M
	20	0.05	56	180	5	10	0.5	10	5	SOT-323	ZUMTS17NTACT-ND◆ ***NEW!***	.62	.49	ZUMTS17NTATR-ND◆ ***NEW!***	3,000	140.00/M
15	30	0.10	20	—	3	1	0.4	10	10	SC70-3	ZUMT918CT-ND	.63	.51	—	—	—

Small Signal

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10
										NPN			
15	40	0.2	40	120	10	1	0.20	10	1	SC70-3	ZUMT2369ACT-ND	.63	.55
										PNP			
-32	-32	-0.20	380	630	-2	-5	-0.25	-10	-0.25	SOT23-3	BCW61DCT-ND	.88	.66

Avalanche – NPN

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
100	260	60	25	—	10	10	0.25	250	—	TO92-3	ZTX415-ND◆	14.12	128.40	1091.40	8538.60

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
50	150	0.1	50	—	10	10	0.15	10	1	SOT23-3	FMMT413TDCT-ND◆ ***NEW!***	7.20	6.48	FMMT413TDTR-ND◆ ***NEW!***	500	1992.00
100	260	0.50	25	—	10	10	0.5	10	1	SOT23-3	FMMT415CT-ND	9.61	8.71	—	—	—
	260	0.50	25	—	10	10	0.5	10	1	SOT23-3	FMMT415TDCT-ND◆	12.88	11.76	FMMT415TDTR-ND◆	500	4060.00
	320	0.50	25	—	10	10	0.5	10	1	SOT23-3	FMMT417TDCT-ND◆	12.85	11.64	FMMT417TDTR-ND◆	500	3759.00

Dual Combinations

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	h_{FE} @I_C (mA)	h_{FE} @V_{CE} (V)	V_{CE} (sat) Max. (V)	V_{CE} (sat) @I_C (mA)	V_{CE} (sat) @I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
											Dual NPN					
17.5	50	5.0	300	—	.001	2	.300	.005	50	SM-8	ZDT1048CT-ND◆	1.78	1.60	ZDT1048TR-ND◆	1,000	702.00

◆ ***RoHS Compliant*** † See drawing

(Continued)

TO-92-3

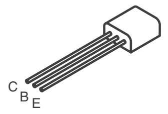

SOT23-3, SOT23F-3

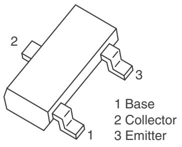

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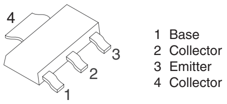

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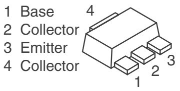

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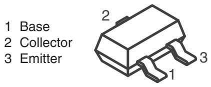

Transistors

Dual Combinations *(Cont.)*

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Qty.	Pricing
20	100	4.5	200	—	10	2	8	100	10	8-MLP	ZXTDBM832TACT-ND	.82	.74	—	—	—
	50	3.5	300	900	1000	2	0.20	3500	50	MSOP-8	ZXT12N20DXCT-ND	1.80	1.55	ZXT12N20DXTR-ND	1,000	747.00
25	35	2.0	75	—	.002	2	.500	.002	200	SM-8	ZDT649CT-ND	.84	.76	—	—	—
	80	5.0	250	—	10	2	0.045	500	10	SM-8	ZDT1049CT-ND◆	1.78	1.60	ZDT1049TR-ND◆	1,000	702.00
50	100	3.0	300	900	1000	2	0.25	3000	50	MSOP-8	ZXT12N50DXCT-ND◆	1.71	1.53	ZXT12N50DXTR-ND◆	1,000	675.00
	50	1.0	200	—	10	2	0.035	100	10	SOT-23-6	ZXTD09N50DE6CT-ND◆	1.14	1.02	ZXTD09N50DE6TR-ND◆	3,000	418.00/M
75	150	5.0	300	1200	1000	2	.100	1000	50	SM-8	ZDT1053CT-ND◆	1.78	1.60	ZDT1053TR-ND◆	1,000	702.00
Dual PNP — RoHS Compliant																
-12	-20	-3.0	300	900	-1000	-2	-0.27	-3000	-30	MSOP-8	ZXT12P12DXCT-ND	1.47	1.32	—	—	—
	-25	-3.5	300	—	-100	-2	-0.35	-2500	-150	8-MLP	ZXTD2M832CT-ND†	.96	.86	ZXTD2M832TR-ND†	3,000	353.00/M
-25	-35	-6.0	100	300	-1000	-2	-0.3	-1000	-100	SOT223-8	ZDT749CT-ND	1.30	1.17	ZDT749TR-ND	1,000	513.00
-40	-50	-2.0	300	900	-1000	-2	-0.26	-2000	-100	MSOP-8	ZXT12P40DXCT-ND	1.80	1.55	ZXT12P40DXTR-ND	1,000	747.00
-60	-80	-2.0	70	—	-50	-2	-0.3	-1000	-100	SM-8	ZDT751CT-ND	1.30	1.17	ZDT751TR-ND	1,000	513.00
-140	-140	-0.5	300	800	-10	-2	-0.3	-100	-1	SM-8	ZDT795ACT-ND	1.30	1.17	ZDT795ATR-ND	1,000	513.00
NPN/PNP Combinations																
12 -12	20 -12	5 -3.5	500 500	1500 1500	10 -10	2 -2	.040 -.070	1000 -1000	100 -100	SOT-23-6 Dual	ZXTC2061E6CT-ND◆	.88	.76	ZXTC2061E6TR-ND◆	3,000	290.00/M
15 -12	15 -12	0.0015 -0.0012	200 300	— —	10 -10	2 -2	20 -40	100 -100	10 -10	SOT-23-6 Dual	ZXTD6717E6TACT-ND	.78	.68	ZXTD6717E6TATR-ND	3,000	257.00/M
18 -25	70 -35	4.5 -4.0	200 475	— —	10 -10	2 -2	8 -10	100 -100	10 -10	8-MLP	ZXTDA1M832TACT-ND	.96	.86	ZXTDA1M832TATR-ND	3,000	353.00/M
20 -20	100 -25	4 -3.5	300 300	900 900	10 -10	2 -2	50 -65	1000 -1000	100 -100	SOT-23-6 Dual	ZXTC2062E6CT-ND◆	.88	.76	ZXTC2062E6TR-ND◆	3,000	290.00/M
20 -20	20 -20	2.0 -1.5	200 150	— —	.002 -.002	2 -2	.200 -.220	.0025 -.0015	50 -50	SM-8	ZDT6718CT-ND◆	1.30	1.17	—	—	—
40 -40	130 -45	3.5 -3.0	300 300	900 900	10 -10	2 -2	60 -90	1000 -1000	100 -100	SOT-23-6 Dual	ZXTC2063E6CT-ND◆	.88	.76	ZXTC2063E6TR-ND◆	3,000	290.00/M
45 -40	45 -50	2.0 -2.0	150 150	— —	.002 -.002	2 -2	.500 -.450	.001 -.001	5 -10	SM-8	ZDT6790CT-ND◆	1.30	1.17	ZDT6790TR-ND◆	1,000	513.00
50 -40	100 -50	4.0 -3.0	200 300	400 —	10 -10	2 -2	.020 -.040	10 -10	10 -10	8-MLP	ZXTDC3M832TACT-ND◆	.96	.86	ZXTDC3M832TATR-ND◆	3,000	353.00/M
65 -70	190 -80	4.0 -3.0	200 300	— —	10 -10	2 -2	8 -25	100 -100	10 -10	8-MLP	ZXTDCM832TACT-ND	.96	.86	—	—	—
60 -60	80 -80	1.0 -1.0	100 100	— —	.0005 -.0005	5 -5	.500 -.600	.001 -.001	100 -100	SOT-23-6 Dual	ZXTD4591E6CT-ND	.78	.68	ZXTD4591E6TR-ND	3,000	257.00/M
80 -70	100 -70	3.5 -2.5	200 300	— —	10 -10	2 -5	.02 -.05	10 -10	10 -10	8-MLP	ZXTDE4M832TACT-ND◆	.96	.86	ZXTDE4M832TATR-ND◆	3,000	353.00/M
Dual Complementary — RoHS Compliant																
27	100	4.5	200	—	10	2	8	100	10	8-MLP	ZXTDB2M832TACT-ND	.96	.86	ZXTDB2M832TATR-ND	3,000	353.00/M
40 -40	40 -40	2.0 -1.5	300 300	— 900	1 -0.5	5 -5	3 -2	50 -1	50 -100	8-MLP	ZXTD4591AM832TACT-ND	.96	.86	ZXTD4591AM832TATR-ND	3,000	353.00/M
40 -40	40 -40	1.5 -1.5	180 180	500 500	100 -100	2 -2	.375 -.375	750 -750	15 -15	SOT-23-6 Dual	ZXTC2045E6CT-ND	.96	.86	ZXTC2045E6TR-ND	3,000	225.00/M
100 -100	120 -120	2 -2	70 70	— —	50 -50	2 -2	0.3 -0.3	1000 -1000	100 -100	SM-8	ZDT6753CT-ND	1.30	1.17	ZDT6753TR-ND	1,000	513.00

SM-8 H Bridge

V_{CEO} (V)	V_{CBO} (V)	I_C - DC (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Qty.	Pricing
NPN/PNP — RoHS Compliant																
20 -20	20 -20	2.5 -2.5	200 150	— —	2 -2	2 -2	0.15 -0.2	1000 -1000	10 -20	SOT223-8	ZHB6718CT-ND	2.74	2.35	ZHB6718TR-ND	1,000	1135.00
50 -50	40 -40	2.0 -2.0	150 150	— —	2 -2	2 -2	0.5 -0.45	1000 -1000	5 -10	SOT223-8	ZHB6790CT-ND	3.35	2.88	ZHB6790TR-ND	1,000	1389.00
70 -70	70 -70	1.0 -1.0	150 200	— —	1000 -1000	2 -2	0.15 -0.45	1000 -500	0.5 -5	SOT223-8	ZHB6792CT-ND	3.35	2.88	ZHB6792TR-ND	1,000	1389.00

VDS (V)	RDS(on) (Ω)	ID (A)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
					1	10		Qty.	Pricing
Mosfet N/P Channel — RoHS Compliant									
30 -30	0.12 0.21	3.1 -2.3	SOT223-8	ZXMHC3A01T8CT-ND	1.93	1.65	ZXMHC3A01T8TR-ND	1,000	798.00
60	0.3	1.6	SOT223-8	ZXMHN6A07T8CT-ND	2.10	1.80	ZXMHN6A07T8TR-ND	1,000	870.00

Transistor and Schottky Diode Combinations

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel	
			Min.	Max.	@I_C (mA)	@V_{CE} (V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Qty.	Pricing
NPN																
27	100	4.5	200	—	8	2	15	10	10	8-MLP	ZX3CDBS1M832TACT-ND†	1.11	1.00	ZX3CDBS1M832TATR-ND†	3,000	410.00/M
PNP																
-12	-12	-1.25	125	—	-1250	-2	-0.240	-1250	-100	SOT-23-6	ZXTS1000E6CT-ND	.59	.51	—	—	—
-20	-25	-3.5	300	—	-10	-2	-0.030	-100	-10	8-MLP	ZX3CD2S1M832CT-ND†◆	1.24	1.11	ZX3CD2S1M832TR-ND†◆	3,000	456.00/M
-25	-35	-4.0	300	—	-10	-2	-10	-100	-10	8-MLP	ZX3CD1S1M832TACT-ND†	.93	.84	—	—	—
-40	-50	-3	300	—	-10	-2	-0.040	-100	-10	8-MLP	ZX3CD3S1M832CT-ND†◆	1.24	1.11	ZX3CD3S1M832TR-ND†◆	3,000	456.00/M

◆ ***RoHS Compliant*** † See drawing

SOT-323 ***NEW!***

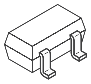

8-MLP
(MLP 3 x 2)

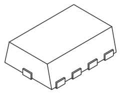

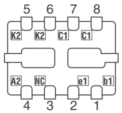

Note: † Diodes across pin 4, and 5, 6.

SM-8, SM-8 H Bridge
(SOT223-8)

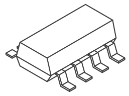

MSOP-8

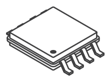

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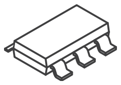

C

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Diodes

Varactor

Digi-Reel®

V_{BR} (V)	P_{TOT} (mW)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} @ f=1MHz		Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
			Min.	Max.			1	10	100		
25V Hyperabrupt — 830 Series											
25	300	8.2	4.3	5.8	SOD-323	ZMV829ACT-ND	1.08	9.63	76.44	—	—
	330	8.2	4.3	5.8	SOT23-3	ZC829ACT-ND	1.24	11.12	88.29	ZC829ATR-ND	570.00/M
	300	10	4.5	6.0	SOD-323	ZMV830ACT-ND	1.51	12.98	106.02	—	—
	330	15	4.5	6.0	SOT23-3	ZC831ACT-ND	1.24	11.12	88.29	—	—
	330	15	4.5	6.0	SOT23-3	ZC831BCT-ND◆	1.98	17.01	138.92	ZC831BTR-ND◆	765.00/M
	330	22	5.0	6.5	SOT23-3	ZC832BCT-ND◆	2.19	18.81	153.62	ZC832BTR-ND◆	846.00/M
	330	22	5.0	6.5	SOD-323	ZMV832BCT-ND◆	2.16	18.54	151.41	ZMV832BTR-ND◆	834.00/M
	330	33	5.0	6.5	SOT23-3	ZC833BCT-ND◆	2.19	18.81	153.62	ZC833BTR-ND◆	846.00/M
	330	33	5.0	6.5	SOD-323	ZMV833BCT-ND◆	2.16	18.54	151.41	ZMV833BTR-ND◆	834.00/M
	330	47	5.0	6.5	SOT23-3	ZC834BCT-ND◆	2.19	18.81	153.62	ZC834BTR-ND◆	846.00/M
	300	68	5.0	6.5	SOD-323	ZMV835ACT-ND	1.08	9.63	76.44	ZMV835ATR-ND	493.50/M
	330	68	5.0	6.5	SOT23-3	ZC835BCT-ND◆	2.19	18.81	153.62	ZC835BTR-ND◆	846.00/M
	330	100	5.0	6.5	SOT23-3	ZC836BCT-ND◆	2.19	18.81	153.62	ZC836BTR-ND◆	846.00/M

V_{BR} (V)	P_{TOT} (mW)	Cd @				Q Min.	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
		V_R=1V Min.	V_R=2.5V Min.	V_R=2.5V Max.	V_R=4V Max.				1	10	100		
12V Hyperabrupt — 930 Series													
12	300	8.7	4.3	5.5	2.9	350	SOD-323	ZMV930CT-ND	1.64	14.07	114.89	—	—
	300	14.5	6.5	7.8	4	300	SOD-323	ZMV931CT-ND	1.90	16.32	133.28	—	—
	330	14.5	6.5	7.8	4	300	SOT23-3	ZC931CT-ND	2.88	24.72	201.88	—	—
	300	17	8.5	10.5	5.5	200	SOD-323	ZMV932CT-ND◆	1.90	16.32	133.28	ZMV932TR-ND◆	734.00/M
	330	17	8.5	10.5	5.5	200	SOT23-3	ZC932CT-ND◆	2.88	24.72	201.88	ZC932TR-ND◆	1112.00/M
	300	42	18	27	12	150	SOD-323	ZMV933CT-ND	.80	6.88	54.30	—	—
	330	42	18	27	12	150	SOT23-3	ZC933CT-ND	2.88	24.72	201.88	—	—
	300	42	20.25	24.75	12	150	SOD-323	ZMV933ACT-ND◆	2.03	17.43	142.35	ZMV933ATR-ND◆	784.00/M
	300	95	40	65	25	80	SOD-323	ZMV934CT-ND	1.90	16.32	133.28	—	—
	300	95	47.25	57.75	25	80	SOD-323	ZMV934ACT-ND◆	1.75	15.02	122.70	—	—
	330	95	47.25	57.75	25	80	SOT23-3	ZC934ACT-ND	2.88	24.72	201.88	ZC934ATR-ND	1112.00/M

Capacitance pF V_R=0.5V @ f=1MHz	Capacitance pF V_R=1.5V @ f=1MHz		Capacitance Ratio $C_{0.5}/C_{2.5}$ @ f=1MHz	Minimum Q V_R=0.5V f=50MHz	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
	Min.	Max.					1	10	100		
Low Voltage Hyperabrupt — 950 Series											
9.5	6.3	7.8	2.0	500	SOD-523	ZV950V2TACT-ND	.83	7.18	56.69	—	—
45	30	37	2.0	250	SC70-3	ZMDC953TACT-ND	.82	7.34	58.32	—	—
45	30	37	2.0	250	SOT-323	FSD273CT-ND†◆	1.45	12.95	102.87	FSD273TR-ND†◆	533.00/M

V_R (V)	Norm Cd (pf)		Capacitance Ratio			P_{TOT} (mW)	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
	Min.	Max.	@	Min.	Max.				1	10	100		
Variable Capacitance Diodes													
28	26	32	C3/C25	5	6.5	330	SOT23-3	BBY40CT-ND	.67	5.78	45.61	—	—
30	20	25	C3/C25	4.5	—	330	SOT-23	FMMV3102CT-ND	.64	5.09	38.20	—	—
	10.8	13.2	C2/C30	2.6	3.3	330	SOT-23	FMMV2104CT-ND	.64	5.09	38.20	FMMV2104TR-ND	243.00/M

Schottky Diodes

Digi-Reel® RoHS COMPLIANT

V_R Max. (V)	I_F Max. (mA)	V_F @		Ir @		Pinning Configu-ration	Pack-aging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
		Max. (mV)	I_F (mA)	Max. (µA)	Vr (V)				1	10	100		Qty.	Pricing
Rectifiers														
10	570	580	1000	4	5	—	SOD-323	ZLLS410CT-ND	.55	4.40	33.00	ZLLS410TR-ND	3,000	155.00/M
28	1000	550	1000	100	40	—	SOD-323	SBR1A40S3-7CT-ND	.52	4.10	28.08	SBR1A40S3-7TR-ND	3,000	119.00/M
30	200	500	30	4	25	Single	SOT23-3	BAT54CT-ND	.55	3.74	17.60	BAT54TR-ND	3,000	51.70/M
	200	1,000	100	4	25	Dual	SOT23-3	BAT54ACT-ND ***NEW!***	.55	3.74	17.60	BAT54ATR-ND ***NEW!***	3,000	52.00/M
40	2000	500	2000	250	30	—	SOT-23-6	ZHCS2000CT-ND	.77	6.65	52.50	ZHCS2000TR-ND	3,000	254.00/M
	1000	500	1000	100	30	Single	SOT23-3	ZHCS1000CT-ND	.69	5.50	41.25	ZHCS1000TR-ND	3,000	194.00/M
	750	540	750	100	30	Single	SOT23-3	ZHCS750CT-ND	.77	6.16	46.20	ZHCS750TR-ND	3,000	217.00/M
	500	550	500	40	30	Single	SOT23-3	ZHCS500CT-ND	.58	4.62	34.65	ZHCS500TR-ND	3,000	163.00/M
	400	500	400	40	30	Single	SOD-323	ZHCS400CT-ND	.50	3.96	29.70	ZHCS400TR-ND	3,000	140.00/M
	350	325	30	12	30	Single	SOD-523	ZHCS350TACT-ND	.50	3.96	29.70	ZHCS350TATR-ND	3,000	140.00/M
60	1650	600	1000	100	45	Dual	8-MLP	ZXSDS2M832CT-ND	.97	8.69	69.01	ZXSDS2M832TR-ND	3,000	358.00/M
	900	600	1000	100	45	Single	SOT23-3	ZHCS1006CT-ND	.69	5.50	41.25	ZHCS1006TR-ND	3,000	194.00/M
	750	610	750	100	45	Single	SOT23-3	ZHCS756CT-ND	.80	6.38	47.85	ZHCS756TR-ND	3,000	225.00/M
	500	630	500	40	45	Single	SOT23-3	ZHCS506CT-ND	.63	5.06	37.95	ZHCS506TR-ND	3,000	178.00/M
Bridge Rectifier														
13.2	400	360	50	10	30	—	SM-8	ZXSBMR16PT8CT-ND	1.82	16.32	129.60	ZXSBMR16PT8TR-ND	1,000	720.00

Switching

Digi-Reel® RoHS COMPLIANT

V_R Max. (V)	I_F Max. (mA)	V_F @		Ir @		Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000
		Max. (mV)	I_F (mA)	Max. (µA)	Vr (V)				1	10	100		
Dual													
30	200	500	30	4	25	Common Cathode	SOT23-3	BAT54SCT-ND	.55	.38	.18	BAT54STR-ND	51.70/M
	200	500	30	4	25	Series	SOT23-3	BAT54CCT-ND	.55	.38	.18	BAT54CTR-ND	52.00/M

◆ *RoHS Compliant* † Banded to tighter capacitance range (Measured at VR=1.5V) ‡ Iz at 2mA

(Continued)

SOD-323

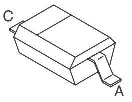

SOD-523

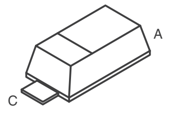

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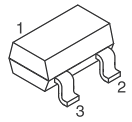

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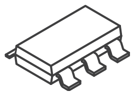

SC70-3

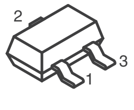

Diodes

Switching *(Cont.)*

V_R Max. (V)	I_F Max. (mA)	V_F @ Max. (mV)	I_F (mA)	Ir @ Max. (µA)	Vr (V)	Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
ZLLS Series — Low Leakage													
40	2200	370	500	40	30	Single	SOT23-6	ZLLS2000CT-ND	.91	.79	.62	ZLLS2000TR-ND	299.00/M
	1160	460	500	20	30	Single	SOT23-3	ZLLS1000CT-ND	.72	.58	.43	ZLLS1000TR-ND	202.00/M
	700	530	500	10	30	Single	SOT23-3	ZLLS500CT-ND	.61	.49	.37	ZLLS500TR-ND	171.00/M
	650	450	30	4	30	Single	SOD-523	ZLLS350TACT-ND	.52	.42	.32	ZLLS350TATR-ND	147.00/M
	520	500	400	10	30	Single	SOD-323	ZLLS400TACT-ND	.52	.42	.32	ZLLS400TATR-ND	147.00/M

Zener

Silicon voltage regulator diodes designed for voltage reference and stabilizer applications. Encapsulated in the popular SOT-23 package, these devices are designed specifically for use in thin and thick film hybrid circuits in both industrial and commercial applications. **Specifications:** • Nominal Tolerance: ±5% • Maximum Power Dissipation at Tamb = 25°C: Ptot 350mW • Operating and Storage Temperature Range: -65°C ~ 150°C • Maximum Forward Current: IF 350mA

Zener Voltage Vz @ Iz = 5mA Nom.	Min.	Max.	Diff. Resistance rz @ Iz = 5mA Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100
Zener Diodes — Silicon Voltage Regulator Diodes — SOT-23 Packaging							
20	18.8	21.2	55	BZX84C20ZXCT-ND	.57	.50	.40
47	44	50	170‡	BZX84C47ZXCT-ND	.57	.50	.40

◆ ***RoHS Compliant*** † Banded to tighter capacitance range (Measured at VR=1.5V) ‡ Iz at 2mA

8-MLP

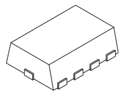

SM-8

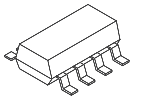

C

MOSFETs

20 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
20	8300	50	3	—	0.25	0.300	1800	10	1.1	SO-8	ZXMN2A02N8CT-ND ***NEW!***	1.38	1.24	ZXMN2A02N8TR-ND ***NEW!***	500	346.00
	6000	27	0.7	—	0.25	0.020	11000	4.5	1.1	MSOP-8	ZXMN2A02X8CT-ND	1.83	1.64	ZXMN2A02X8TR-ND	1,000	722.00
	5400	30	0.7	—	0.25	0.040	3800	4.5	1.1	MSOP-8	ZXM64N02XCT-ND	1.52	1.36	ZXM64N02XTR-ND	1,000	599.00
	4300	26	0.4	1.0	0.25	0.075	3200	1.8	1.1	SOT23-6	ZXMN2B03E6CT-ND	.80	.69	ZXMN2B03E6TR-ND	3,000	262.00/M
	4100	22.6	0.6	1.5	0.25	0.045	2500	4.5	0.96	SOT23-3	ZXMN2F30FHCT-ND	.60	.48	ZXMN2F30FHTR-ND	3,000	137.00/M
	4000	19	0.5	1.5	0.25	0.060	2500	4.5	1.35	DFN322	ZXMN2F34MACT-ND	.58	.47	ZXMN2F34MATR-ND	3,000	164.00/M
	3600	16	0.7	—	0.25	0.055	7200	4.5	1.1	SOT23-6	ZXMN2A03E6CT-ND	.92	.80	ZXMN2A03E6TR-ND	3,000	305.00/M
	3500	21	0.4	1.0	0.25	0.100	2600	1.8	1	SOT23-3	ZXMN2B14FHCT-ND	.88	.77	ZXMN2B14FHTR-ND	3,000	291.00/M
	3400	19	0.7	—	0.25	0.110	2500	2.5	1	SOT23-3	ZXMN2A14FCT-ND	.69	.55	ZXMN2A14FTR-ND	3,000	194.00/M
	3400	18.6	0.5	1.5	0.25	0.060	2500	4.5	0.95	SOT23-3	ZXMN2F34FHCT-ND	.55	.44	ZXMN2F34FHTR-ND	3,000	125.00/M
	2440	10	0.7	—	0.25	0.120	4000	4.5	1.1	SOT23-6	ZXMN2A01E6CT-ND	.80	.64	ZXMN2A01E6TR-ND	3,000	225.00/M
	2100	11.8	0.4	1.0	0.25	0.200	1700	1.8	0.625	SOT23-3	ZXMN2B01FCT-ND	.66	.53	ZXMN2B01FTR-ND	3,000	186.00/M
	1900	8	0.7	—	0.25	0.120	4000	4.5	0.625	SOT23-3	ZXMN2A01FCT-ND	.55	.44	ZXMN2A01FTR-ND	3,000	155.00/M
	1700	7.4	0.7	—	0.25	0.180	930	4.5	0.625	SOT23-3	ZXM61N02FCT-ND	.66	.53	ZXM61N02FTR-ND	3,000	186.00/M
Dual																
20	7700	38	1.0	—	0.25	0.025	5900	4.5	2.1	SO-8	ZXMN2A04DN8CT-ND	2.17	1.86	ZXMN2A04DN8TR-ND	500	542.50
	3000	13	0.7	—	0.25	0.120	4000	4.5	1.5	8-MLP	ZXMN2AM832CT-ND	1.09	.98	ZXMN2AM832TR-ND	3,000	400.00/M
	2400	19	0.7	—	0.25	0.130	1700	4.5	1.04	MSOP-8	ZXMD63N02XCT-ND	2.52	2.17	ZXMD63N02XTR-ND	1,000	1045.00
P-Channel																
-20	-900	-4.9	-0.7	—	0.25	0.6	-610	-4.5	.625	SOT23-3	ZXM61P02FCT-ND	.54	.43	ZXM61P02FTR-ND	3,000	124.00/M
	-2300	-13	-0.7	—	0.25	0.2	-1600	-4.5	1.1	SOT23-6	ZXM62P02E6CT-ND	.84	.73	ZXM62P02E6TR-ND	3,000	276.00/M
	-3500	-19	-0.7	—	0.25	0.09	-2400	-4.5	1.1	MSOP-8	ZXM64P02XCT-ND	1.52	1.37	ZXM64P02XTR-ND	1,000	602.00
	-8000	-28	-0.7	—	0.25	0.025	-3200	-4.5	2.5	SO-8	ZXM66P02N8CT-ND	3.01	2.58	ZXM66P02N8TR-ND	500	751.50
Dual																
-20	-1700	-9.6	-0.7	—	0.25	0.27	-1200	-4.5	1.040	MSOP-8	ZXMD63P02XCT-ND	2.40	1.80	ZXMD63P02XTR-ND	1,000	680.00
N and P Channel Complementary																
20 -20	2400 -1700	19 -9.6	0.7 -0.7	— —	0.25 -0.25	0.13 -0.27	1700 -1200	4.5 -4.5	1.04 1.04	MSOP-8	ZXMD63C02XCT-ND	2.40	2.06	ZXMD63C02XTR-ND	1,000	995.00

MSOP-8

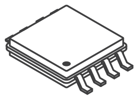

30 - 50 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
35	13000	30	1.0	—	0.250	0.060	3700	10	20	TO-220-3	ZXM64N035L3-ND	1.61	1.46	1.17	.76
P-Channel — RoHS Compliant															
-35	-12000	-19	-1.0	—	0.250	0.075	2400	10	20	TO-220	ZXM64P035L3-ND	1.80	1.63	1.31	.85
-45	-230	-3	-1.0	-3.5	1	14	200	-10	0.7	TO92-3	BS250P-ND	.88	.78	.62	.38
-50	-175	-0.52	-0.8	-2.0	1	10	100	-5	0.625	TO92-3	ZVP4105A-ND	.92	.81	.62	.37

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max.@	I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
30	18400	66	1	—	250	0.03	9800	4.5	10.1	D-PAK	ZXMN3A04KTCCT-ND	2.24	1.93	—	—	—
	7200	45	0.7	—	0.25	0.025	8900	4.5	2.0	SO-8	ZXMN3B04N8CT-ND◆	1.25	1.13	ZXMN3B04N8TR-ND◆	500	313.50
	4700	16	1	—	0.25	0.11	2200	10	2.0	SOT-223	ZXM62N03GCT-ND◆	.92	.80	ZXM62N03GTR-ND◆	1,000	336.00
	3800	21	1	3	0.25	0.047	3200	10	0.95	SOT23-3	ZXMN3F30FHCT-ND◆	.60	.48	ZXMN3F30FHTR-ND◆	3,000	137.00/M
	3700	17	1	—	0.25	0.050	7800	10	1.1	SOT-23-6	ZXMN3A03E6CT-ND◆	.92	.80	ZXMN3A03E6TR-ND◆	3,000	305.00/M
	3500	16	0.7	—	0.25	0.140	2200	2.5	1.0	SOT23-3	ZXMN3B14FCT-ND◆	.68	.59	ZXMN3B14FTR-ND◆	3,000	225.00/M
	3200	—	1	—	0.25	0.065	3200	10	1.000	SOT23-3	ZXMN3A14FCT-ND◆	.66	.57	ZXMN3A14FTR-ND◆	3,000	218.00/M
	2400	10	1	—	0.25	0.12	2000	10	1.1	SOT-23-6	ZXMN3A01E6CT-ND◆	.80	.64	ZXMN3A01E6TR-ND◆	3,000	225.00/M
	1800	8	1	—	0.25	0.12	2500	10	.625	SOT23-3	ZXMN3A01FCT-ND◆	.55	.44	ZXMN3A01FTR-ND◆	3,000	155.00/M
	1400	17	1	—	0.25	0.22	9100	10	1.1	SOT23-3	ZXM61N03FCT-ND◆	.66	.53	ZXM61N03FTR-ND◆	3,000	186.00/M
	2.0	9.4	0.7	—	0.25	0.15	1700	4.5	.625	SOT23-3	ZXMN3B01FCT-ND◆	.63	.51	ZXMN3B01FTR-ND◆	3,000	178.00/M
40	10900	35.3	1	—	0.25	0.050	.0045	10	4.2	D-PAK	ZXMN4A06KCT-ND◆	1.44	1.30	ZXMN4A06KTR-ND◆	2,500	532.00/M
	6000	37	1	3	0.25	0.027	7000	10	1.56	SO-8	DMN4027SSS-13CT-ND◆ ***NEW!***	.79	.69	DMN4027SSS-13TR-ND◆ ***NEW!***	2,500	261.00/M
	5400	33	1	3	0.25	0.034	6000	10	1.56	SO-8	DMN4034SSS-13CT-ND◆ ***NEW!***	.79	.69	DMN4034SSS-13TR-ND◆ ***NEW!***	2,500	261.00/M
	5000	22	1	—	0.25	0.05	4500	10	2.0	SOT-223	ZXMN4A06GCT-ND◆	.92	.80	ZXMN4A06GTR-ND◆	1,000	336.00
50	200	0.8	0.5	1.5	1	3.5	200	5	.360	SOT23-3	BSS138ZXCT-ND◆	.58	.42	BSS138ZXTR-ND◆	3,000	99.00/M

◆ ***RoHS Compliant*** § Tape and Box

(Continued)

DFN322

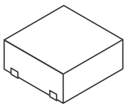

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

30 - 50 Volts *(Cont.)*

BVDSS (V)	ID (mA)	IDM (A)	VGS (th) (V) Min.	VGS (th) @ Max.	VGS (th) ID (mA)	RDS (on) (Ω) Max.@	RDS (on) ID (mA)	RDS (on) VGS (V)	PD (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
Dual — RoHS Compliant																
30	8500	39	1	—	0.25	0.020	12600	10	2.15	SO-8	ZXMN3A04DN8CT-ND	1.96	1.68	ZXMN3A04DN8TR-ND	500	490.00
	6200	30	1	—	0.25	0.035	9000	10	2.1	SO-8	ZXMN3A06DN8CT-ND	1.25	1.13	ZXMN3A06DN8TR-ND	500	313.50
	5700	33	1	3	0.25	0.024	7000	10	1.25	SO-8	ZXMN3F31DN8CT-ND	.97	.84	ZXMN3F31DN8TR-ND	500	220.00
	5500	33.6	1	3	0.25	0.028	6000	10	1.25	SO-8	ZXMN3G32DN8CT-ND	.97	.84	ZXMN3G32DN8TR-ND	500	220.00
	3000	13	1	—	0.25	0.12	2500	10	1.5	8-MLP	ZXMN3AM832CT-ND	1.01	.88	ZXMN3AM832TR-ND	3,000	334.00/M
	2300	14	1	—	0.25	0.135	1700	10	1.25	MSOP-8	ZXMD63N03XCT-ND	2.52	2.17	ZXMD63N03XTR-ND	1,000	1045.00
40	5400	28	1	3	0.25	0.027	7000	10	1.8	SO-8	DMN4027SSD-13CT-ND ***NEW!***	.97	.84	DMN4027SSD-13TR-ND ***NEW!***	2,500	319.00/M
	4800	24.8	1	3	0.25	0.034	6000	10	1.8	SO-8	DMN4034SSD-13CT-ND ***NEW!***	.97	.84	DMN4034SSD-13TR-ND ***NEW!***	2,500	319.00/M
P-Channel — RoHS Compliant																
-30	-5400	-24.9	-1	—	0.25	.045	4200	-10	2.0	SOT-223	ZXMP3A16GCT-ND	1.03	.92	ZXMP3A16GTR-ND	1,000	405.00
	-3200	-14.4	-1	—	0.25	0.07	3200	-10	1.1	SOT-23-6	ZXMP3A17E6CT-ND	.77	.67	ZXMP3A17E6TR-ND	3,000	254.00/M
	-5600	-25	-1	—	0.25	0.045	4200	-10	1.9	SO-8	ZXMP3A16N8CT-ND	.99	.89	ZXMP3A16N8TR-ND	500	247.00
	-1100	-4.3	-1	—	0.25	0.35	600	-10	.625	SOT23-3	ZXM61P03FCT-ND	.66	.53	ZXM61P03FTR-ND	3,000	186.00/M
	-2600	-13	-1	—	0.25	0.15	1600	-10	1.1	SOT-23-6	ZXM62P03E6CT-ND	.84	.73	ZXM62P03E6TR-ND	3,000	276.00/M
	-1400	-5	-1	—	0.25	0.21	1400	-10	.625	SOT23-3	ZXMP3A13FCT-ND	.66	.53	ZXMP3A13FTR-ND	3,000	186.00/M
	-3800	-19	-1	—	0.25	0.075	2400	-10	1.1	MSOP-8	ZXM64P03XCT-ND	1.67	1.50	ZXM64P03XTR-ND	1,000	660.00
	-7900	-28	-1	—	0.25	0.025	5600	-10	2.5	SO-8	ZXM66P03N8CT-ND	3.01	2.58	ZXM66P03N8TR-ND	500	751.50
-40	-9900	-35	-1	—	0.25	0.060	3800	-10	9.5	D-PAK	ZXMP4A16KTCCT-ND	1.37	1.23	ZXMP4A16KTCTR-ND	2,500	504.00/M
	-6400	-21	-1	—	0.25	.06	3800	-10	3.9	SOT-223	ZXMP4A16GCT-ND	1.31	1.18	ZXMP4A16GTR-ND	1,000	518.00
	-4400	-27	-1	-3	0.25	0.05	6000	-10	1.56	SO-8	DMP4050SSS-13CT-ND ***NEW!***	.79	.69	DMP4050SSS-13TR-ND ***NEW!***	2,500	261.00/M
-45	-90	-1.6	-1	-3.5	1	14	200	-10	.330	SOT23-3	BS250FCT-ND	.75	.65	BS250FTR-ND	3,000	247.00/M
-50	-130	-0.52	-0.8	-2.0	1	10	100	-5	.360	SOT23-3	BSS84ZXCT-ND	.58	.42	BSS84ZXTR-ND	3,000	99.00/M
Dual																
-30	-2000	-9.6	-1	—	0.25	0.185	1200	-10	1.0	MSOP-8	ZXMD63P03XCT-ND	2.65	2.28	ZXMD63P03XTR-ND	1,000	1099.00
	-4400	-16.2	-1	—	0.25	0.070	3200	-10	2.1	SO-8	ZXMP3A17DN8CT-ND	1.44	1.29	ZXMP3A17DN8TR-ND	500	359.00
	-5500	-20	-1	—	0.25	0.045	4200	-10	2.1	SO-8	ZXMP3A16DN8CT-ND	1.57	1.41	ZXMP3A16DN8TR-ND	500	391.50
-40	-4000	-20	-1	-3	0.25	0.05	6000	-10	1.8	SO-8	DMP4050SSD-13CT-ND ***NEW!***	.99	.89	DMP4050SSD-13TR-ND ***NEW!***	2,500	364.00/M
N and P Channel Complementary — RoHS Compliant																
30 -30	2170 -1640	11.7 -8.84	— —	3 -3	0.25 0.25	0.125 0.210	2700 -2100	10 -10	.87 .87	SO-8	ZXMHC3A01N8DICT-ND ***NEW!***	1.14	1.02	ZXMHC3A01N8DITR-ND ***NEW!***	2,500	420.00/M
30 -30	2300 -2000	14 -9.6	1 -1	— —	0.25 0.25	0.135 0.185	1700 -1200	10 -16	1.25	MSOP-8	ZXMD63C03XCT-ND	2.40	2.06	ZXMD63C03XTR-ND	1,000	995.00
30 -30	3700 -2700	12.4 -9.2	1 -0.8	— —	0.25 0.25	.120 .210	2500 -1400	10 -10	1.70	8-MLP	ZXMC3AM832TACT-ND	1.06	.96	ZXMC3AM832TATR-ND	3,000	392.00/M
30 -30	3980 -3360	22.9 -19.6	— —	3 -3	0.25 0.25	0.033 0.055	5000 -4100	10 -10	.87 .87	SO-8	ZXMHC3F381N8DICT-ND ***NEW!***	1.14	1.02	ZXMHC3F381N8DITR-ND ***NEW!***	2,500	420.00/M
30 -30	5400 -4400	23 -20	1 -1	— —	0.25 0.25	.050 0.070	7800 -3200	10 -10	1.25	SO-8	ZXMC3A17DN8CT-ND	1.06	.96	ZXMC3A17DN8TR-ND	500	266.00
30 -30	6400 -5400	30 -25	1 -1	— —	0.25 0.25	0.050 0.070	0.0074 -0.0034	4.5 -4.5	1.25	SO-8	ZXMC3A16DN8CT-ND	1.52	1.36	ZXMC3A16DN8TR-ND	500	380.00
30 -30	6400 -5400	30 -25	1 -1	— —	0.25 0.25	0.050 0.070	0.0074 -0.0034	4.5 -4.5	1.25	SO-8	ZXMC3A16DN8TCCT-ND	1.52	1.36	ZXMC3A16DN8TCTR-ND	2,500	560.00/M
40 -40	5200 -4700	24 -23	1 -1	— —	0.25 0.25	0.075 0.10	3200 -2900	4.5 -4.5	1.8	SO-8	ZXMC4A16DN8CT-ND	1.52	1.36	ZXMC4A16DN8TR-ND	500	380.00

60 Volts

BVDSS (V)	ID (mA)	IDM (A)	VGS (th) V Min.	VGS (th) @ Max.	VGS (th) ID (mA)	RDS (on) (Ω) Max. @	RDS (on) ID (mA)	RDS (on) VGS (V)	PD (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
60	270	3	0.8	2.4	1	5	500	10	0.625	TO92-3	ZVN3306A-ND	.78	.69	.53	.32
	450	8	0.8	2.4	1	2	1000	10	0.7	TO92-3	ZVN2106A-ND	.72	.63	.49	.29
	600	8	1.3	3.0	1	1.5	500	5	0.7	TO92-3	ZVN4206A-ND	.76	.67	.52	.31
	1100	20	1.3	3.0	1	0.45	1500	5	0.85	TO92-3	ZVN4306A-ND	1.60	1.42	1.12	.69
	270	3	0.8	3.0	1	5	200	10	0.625	TO92-3	BS170P-ND	.81	.71	.55	.33
	270	3	0.8	2.5	1	7.5	200	5	0.625	TO92-3	VN10LP-ND	.68	.60	.46	.28
P-Channel — RoHS Compliant															
-60	-160	-1.6	-1.5	-3.5	1	14	200	-10	0.625	TO92-3	ZVP3306A-ND	.64	.56	.44	.26
	-280	-4	-1.5	-3.5	1	5	500	-10	0.7	TO92-3	ZVP2106A-ND	.88	.78	.62	.38

BVDSS (V)	ID (mA)	IDM (A)	VGS (th) (V) Min.	VGS (th) @ Max.	VGS (th) ID (mA)	RDS (on) (Ω) Max. @	RDS (on) ID (mA)	RDS (on) VGS (V)	PD (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
N-Channel																
60	11200	40	1	—	.250	0.070	5,600	4.5	10.1	D-PAK	ZXMN6A09KTCCT-ND	1.69	1.45	ZXMN6A09KTCTR-ND	2,500	952.00/M
	1200	1.2	1	3.0	.250	7.5	500	10	0.33	SOT23-3	2N7002CT-ND◆	.62	.44	2N7002TR-ND◆	3,000	88.00/M
	1200	1.2	1	3.0	.250	0.3	1800	10	0.80	SOT23-3	ZXMN6A07FCT-ND◆	.66	.53	ZXMN6A07FTR-ND◆	3,000	186.00/M
	3800	5.6	1	—	0.25	0.250	3800	4.5	3.9	SOT-223	ZXMN6A11GCT-ND◆	.79	.68	ZXMN6A11GTR-ND◆	1,000	286.00
	3100	4	1	—	0.25	0.100	4800	10	1.7	SOT-23-6	ZXMN6A08E6CT-ND◆	.92	.80	ZXMN6A08E6TR-ND◆	3,000	305.00/M
	5360	24.3	1	3	0.25	0.08	4800	10	2.12	D-PAK	ZXMN6A08KTCCT-ND◆ ***NEW!***	.73	.63	ZXMN6A08KTCTR-ND◆ ***NEW!***	2,500	239.00/M
	2200	6.8	1	3	0.25	0.30	1800	10	2.6	SOT-89	ZXMN6A07ZCT-ND◆	.80	.64	ZXMN6A07ZTR-ND◆	1,000	247.00
	6900	30.6	1	—	0.25	0.045	8200	10	3.9	SOT-223	ZXMN6A09GCT-ND◆	1.31	1.18	ZXMN6A09GTR-ND◆	1,000	518.00
	3200	12.3	1	—	0.25	0.14	4400	10	2.6	SOT-89	ZXMN6A11ZCT-ND◆	.84	.73	ZXMN6A11ZTR-ND◆	1,000	306.00
	200	3	1.3	3	1	2.5	500	10	0.33	SOT23-3	ZVN4106FCT-ND◆	.75	.65	ZVN4106FTR-ND◆	3,000	247.00/M
	710	8.0	0.8	2.4	1.0	2.0	1.0	10	2.0	SOT-223	ZVN2106GCT-ND◆	.97	.84	ZVN2106GTR-ND◆	1,000	352.00
	1000	8.0	1.3	3	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GCT-ND◆	1.03	.92	ZVN4206GTR-ND◆	1,000	405.00
	2100	15	1.3	3	1.0	0.33	3000	10	3.0	SOT-223	ZVN4306GCT-ND◆	1.52	1.36	ZVN4306GTR-ND◆	1,000	600.00
	1600	3	—	—	—	0.675	700	—	2.5	SOT-223	BSP75GCT-ND◆	1.28	1.15	BSP75GTR-ND◆	1,000	507.00
	270	3	0.8	2.5	1	5	500	10	.625	TO92-3	VN10LPSTOACT-ND◆	.64	.56	—	—	—
	150	3	0.8	3	1	5	200	10	.330	SOT23-3	BS170FCT-ND◆	.75	.65	BS170FTR-ND◆	3,000	247.00/M
	150	3	0.8	2.5	1	7.5	200	5	.330	SOT23-3	VN10LFCT-ND◆	.63	.51	VN10LFTR-ND◆	3,000	178.00/M
	150	3	0.8	2.4	1	5	500	10	.330	SOT23-3	ZVN3306FCT-ND◆	.68	.59	ZVN3306FTR-ND◆	3,000	225.00/M
	4800	28.5	1	—	0.25	0.05	3600	10	2.0	SOT-223	ZXMN6A25GCT-ND◆	.98	.88	—	—	—
	4800	28.5	1	—	0.25	0.05	3600	10	2.0	SOT-223	ZXMN6A25GTACT-ND◆	1.14	1.02	ZXMN6A25GTATR-ND◆	1,000	450.00
	7000	36	1	3	0.25	0.05	3600	10	4.25	D-PAK	ZXMN6A25KCT-ND◆	1.25	1.13	ZXMN6A25KTR-ND◆	2,500	462.00/M
	7000	36	1	3	0.25	0.05	3600	10	4.25	D-PAK	ZXMN6A25KTCCT-ND◆	1.14	1.02	ZXMN6A25KTCTR-ND◆	2,500	420.00/M
	—	1.2	1	—	—	0.675	700	5	1.5	SOT-223	BSP75NCT-ND◆	1.31	1.17	BSP75NTR-ND◆	1,000	516.00
	3.1	4.0	1	—	—	0.08	4800	10	—	SOT-23-6	ZXMN6A08GCT-ND◆	.81	.71	ZXMN6A08GTR-ND◆	1,000	296.00
	1100	—	—	—	—	0.675	700	5	1.5	SOT-223	ZXMS6001N3CT-ND◆	1.14	1.02	ZXMS6001N3TR-ND◆	1,000	450.00
	1400	—	1	—	1	0.675	700	5	2.5	SOT-223	ZXMS6002GCT-ND◆	1.52	1.36	ZXMS6002GTR-ND◆	1,000	600.00

◆ ***RoHS Compliant*** § Tape and Box

(Continued)

SO-8

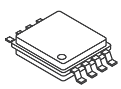

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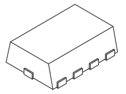

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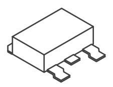

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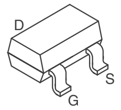

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

60 Volts *(Cont.)*

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) @ Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
60	1400	—	1	—	1	0.675	200	5	2.5	SOT-223	ZXMS6003GCT-ND◆	1.71	1.53	ZXMS6003GTR-ND◆	1,000	675.00
	1300	2.5	—	—	—	0.600	500	3	.83	SOT-23F	ZXMS6004FFCT-ND◆	.99	.89	ZXMS6004FFTR-ND◆	3,000	364.00/M
	1300	2.5	—	—	—	0.600	500	3	1.3	SOT-223	ZXMS6004DGTACT-ND◆ ***NEW!***	1.37	1.23	ZXMS6004DGTATR-ND◆ ***NEW!***	1,000	540.00
	1300	2.5	—	—	—	0.600	500	3	1.6	SOT-223	ZXMS6004SGTACT-ND◆ ***NEW!***	1.10	.99	ZXMS6004SGTATR-ND◆ ***NEW!***	3,000	406.00/M
	3700	23	1	3	0.25	0.66	4500	10	1.56	SO-8	DMN6066SSS-13CT-ND◆ ***NEW!***	.88	.76	DMN6066SSS-13TR-ND◆ ***NEW!***	2,500	290.00/M
	4100	20.8	1	3	0.25	0.068	12000	10	2	SOT-223	DMN6068SE-13CT-ND◆ ***NEW!***	.72	.58	DMN6068SE-13TR-ND◆ ***NEW!***	2,500	202.00/M
Dual — RoHS Compliant																
60	5100	25	1	—	0.25	0.045	8200	10	2.1	SO-8	ZXMN6A09DN8CT-ND	2.10	1.80	ZXMN6A09DN8TR-ND	500	525.00
	4700	22	1	—	0.25	0.055	3600	10	2.1	SO-8	ZXMN6A25DN8CT-ND	1.31	1.17	ZXMN6A25DN8TR-ND	500	327.00
	3300	17	1	3	0.25	0.066	4500	10	1.8	SO-8	DMN6066SSD-13CT-ND ***NEW!***	1.06	.92	DMN6066SSD-13TR-ND ***NEW!***	2,500	348.00/M
	2700	8.3	1	—	0.25	0.140	4400	10	2.1	SO-8	ZXMN6A11DN8CT-ND	.99	.86	ZXMN6A11DN8TR-ND	500	225.00
P-Channel — RoHS Compliant																
-60	-10400	-37.5	-1	—	-0.25	0.055	-3500	-10	10.1	D-PAK	ZXMP6A18KTCCT-ND	2.00	1.71	ZXMP6A18KTCTR-ND	2,500	770.00/M
	-5400	-27.2	-1	—	-0.25	0.085	-2900	-10	4.24	D-PAK	ZXMP6A16KCT-ND	.97	.87	ZXMP6A16KTR-ND	2,500	357.00/M
	-4100	-13.7	-1	—	-0.25	0.125	-2200	-10	2.0	SOT-223	ZXMP6A17GCT-ND	.84	.73	ZXMP6A17GTR-ND	1,000	304.00
	-3000	-13.6	-1	—	-0.25	0.125	-2300	-10	1.7	SOT-23-6	ZXMP6A17E6CT-ND	.69	.55	ZXMP6A17E6TR-ND	3,000	194.00/M
	-2700	-15.6	-1	—	-0.25	0.125	-2300	-10	1.56	SO-8	ZXMP6A17N8TCCT-ND ***NEW!***	.97	.84	ZXMP6A17N8TCTR-ND ***NEW!***	2,500	319.00/M
	-1700	-7.8	-1	—	-0.25	0.390	-900	-10	2.0	SOT-223	ZXMP6A13GCT-ND ***NEW!***	.81	.71	ZXMP6A13GTR-ND ***NEW!***	1,000	296.00
	-1100	-4	-1	—	-0.25	0.4	-900	-10	.806	SOT23-3	ZXMP6A13FCT-ND	.66	.53	ZXMP6A13FTR-ND	3,000	186.00/M
	-90	-1.6	-1.5	-3.5	-1	14	-200	-10	.330	SOT23-3	ZVP3306FCT-ND	.81	.71	ZVP3306FTR-ND	3,000	268.00/M
	-450	-4.0	-1.5	-3.5	-1	5.0	-500	-10	2.0	SOT-223	ZVP2106GCT-ND	1.14	1.02	ZVP2106GTR-ND	1,000	450.00
Dual																
-60	-4800	-23.8	-1	—	-0.25	0.055	-3500	-10	2.1	SO-8	ZXMP6A18DN8CT-ND	1.93	1.65	ZXMP6A18DN8TR-ND	500	481.50
	-3900	-10.3	-1	—	-0.25	0.085	-2900	-10	2.1	SO-8	ZXMP6A16DN8CT-ND	1.57	1.41	ZXMP6A16DN8TR-ND	500	391.50
	-3200	-14.2	-1	—	-0.25	0.125	-2300	-10	2.1	SO-8	ZXMP6A17DN8CT-ND	1.17	1.06	ZXMP6A17DN8TR-ND	500	293.50
N and P Channel Complementary — RoHS Compliant																
60 -60	1390 -1280	7.10 -6.03	— —	3 -3	0.25 -0.25	0.25 0.40	1800 -1400	10 -10	0.87	SO-8	ZXMHC6A07N8DICT-ND ***NEW!***	1.14	1.02	ZXMHC6A07N8DITR-ND ***NEW!***	2,500	420.00/M
60 -60	5100 -4800	25.0 -23.0	1 -1	— —	0.25 -0.25	0.450 0.550	8200 -3500	10 -10	2.1	SO-8	ZXMC6A09DN8TACT-ND	2.10	1.80	ZXMC6A09DN8TATR-ND	500	525.00
60 -60	4700 -3900	22.2 -18.3	1 -1	— —	0.25 -0.25	0.055 0.085	4500 -2900	10 -10	2.1	SO-8	ZXMC4559DN8CT-ND	1.75	1.50	ZXMC4559DN8TR-ND	500	437.50

70 Volts

RoHS COMPLIANT

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) @ Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max.@	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
N-Channel																
70	3.8	10	1.0	—	0.250	0.13	4400	10	3.9	SOT-223	ZXMN7A11GCT-ND	.92	.80	ZXMN7A11GTR-ND	1,000	336.00
	6.1	17	1.0	—	0.250	0.13	4400	10	8.5	D-PAK	ZXMN7A11KCT-ND	.99	.86	ZXMN7A11KTR-ND	2,500	326.00/M
P-Channel																
-70	-3.7	-9.6	-1.0	—	-0.250	0.16	-2100	-10	3.9	SOT-223	ZXMP7A17GCT-ND	.86	.75	ZXMP7A17GTR-ND	1,000	312.00
	-5.7	-17.7	-1.0	—	-0.250	0.16	-2100	-10	8.5	D-PAK	ZXMP7A17KCT-ND	1.01	.88	ZXMP7A17KTR-ND	2,500	334.00/M

100-150 Volts

RoHS COMPLIANT

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) @ Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	Loose Piece Price Each 10	Loose Piece Price Each 100	Loose Piece Price Each 1,000
N-Channel															
100	320	6	0.75	1.5	1	4.5	250	5	0.7	TO92-3	ZVNL110A-ND	.78	.69	.53	.32
	320	6	0.8	2.4	1	4	1,000	10	0.7	TO92-3	ZVN2110A-ND	.72	.63	.49	.29
	200	2	0.8	2.4	1	10	500	10	0.625	TO92-3	ZVN3310A-ND	.78	.69	.53	.32
	450	6	0.8	2.4	1	1.8	500	5	0.7	TO92-3	ZVN4210A-ND	.84	.74	.57	.34
	900	12	1.0	3.0	1	0.65	1,500	5	0.85	TO92-3	ZVN4310A-ND	1.60	1.42	1.12	.69
P-Channel															
-100	-230	-3	-1.5	-3.5	1	8	375	-10	0.7	TO92-3	ZVP2110A-ND	.88	.78	.62	.38
	-140	-1.2	-1.5	-3.5	1	20	150	-10	0.625	TO92-3	ZVP3310A-ND	.70	.62	.48	.28

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) @ Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
N-Channel																
100	7700	27	2.0	4.0	0.25	0.100	0.0042	6	10.1	D-PAK	ZXMN10A09KCT-ND	1.93	1.65	ZXMN10A09KTR-ND	2,500	743.00/M
	2000	11	2.0	—	0.25	0.25	3200	10	2	SOT-223	ZXMN10A08GCT-ND	.70	.61	ZXMN10A08GTR-ND	1,000	256.00
	2400	9.9	2.0	4.0	0.25	0.35	2600	10	4.06	D-PAK	ZXMN10A11KCT-ND	.83	.72	—	—	—
	2400	9.9	2.0	4.0	0.25	0.35	2600	10	4.06	D-PAK	ZXMN10A11KTCCT-ND	.83	.72	ZXMN10A11KTCTR-ND	2,500	272.00/M
	2900	17	2.0	4.0	0.25	0.125	2900	10	2	SOT-223	ZXMN10A25GTACT-ND	1.31	1.17	ZXMN10A25GTATR-ND	1,000	516.00
	4200	21	2.0	4.0	0.25	0.125	2900	10	4.25	D-PAK	ZXMN10A25KTCCT-ND	1.44	1.29	ZXMN10A25KTCTR-ND	2,500	529.00/M
	600	6	0.75	1.5	1	4.5	250	5	2	SOT-223	ZVNL110GCT-ND	1.03	.92	ZVNL110GTR-ND	1,000	405.00
	320	6	0.75	1.5	1	4.5	250	5	.7	TO92-3	ZVNL110ASCT-ND	.75	.65	ZVNL110ASTB-ND§	2,000	282.75/M
	1500	8.6	2	4	0.25	0.25	3200	10	1.7	SOT-23-6	ZXMN10A08E6CT-ND	.69	.56	ZXMN10A08E6TR-ND	3,000	195.00/M
	1900	9	1	3	0.25	0.30	1400	4.5	1.7	SOT-23-6	ZXMN10B08E6CT-ND	.84	.73	ZXMN10B08E6TR-ND	3,000	277.00/M
	500	6	0.8	2.4	1	4.0	1.0	10	2	SOT-223	ZVN2110GCT-ND	.95	.85	ZVN2110GTR-ND	1,000	375.00
	100	2	0.8	2.4	1	10	500	10	.330	SOT23-3	ZVN3310FCT-ND	.68	.59	ZVN3310FTR-ND	3,000	225.00/M
	800	6	0.8	2.4	1	1.8	500	5	2	SOT-223	ZVN4210GCT-ND	1.03	.92	ZVN4210GTR-ND	1,000	405.00
	1670	12	1.0	3.0	1	0.54	3.3	10	3	SOT-223	ZVN4310GCT-ND	1.74	1.56	ZVN4310GTR-ND	1,000	687.00
	170	0.68	0.8	2.8	1	6	100	10	.360	SOT23-3	BSS123CT-ND	.58	.42	BSS123TR-ND	3,000	99.00/M
	170	0.68	0.5	1.5	1	8	150	4.5	.360	SOT23-3	ZXM41N10FCT-ND	.75	.65	ZXM41N10FTR-ND	3,000	247.00/M
	800	3.5	2	4	0.25	0.7	1500	10	.62	SOT23-3	ZXMN10A07FCT-ND	.50	.40	ZXMN10A07FTR-ND	3,000	140.00/M
	1400	4.2	2	4	0.25	0.70	1500	10	2.6	SOT-89	ZXMN10A07ZCT-ND	.72	.58	ZXMN10A07ZTR-ND	1,000	221.00
	1600	9.0	2	—	0.25	0.25	3200	10	1.25	SO-8	ZXMN10A08DN8TACT-ND	1.14	1.02	ZXMN10A08DN8TATR-ND	500	285.00
	1800	5.8	2	4	0.25	0.6	2600	10	3.9	SOT-223	ZXMN10A11GCT-ND	.81	.71	ZXMN10A11GTR-ND	1,000	296.00
150	1700	17.2	2	4	0.25	0.65	2150	10	2.2	D-PAK	ZXMN15A27KTCCT-ND ***NEW!***	.84	.73	ZXMN15A27KTCTR-ND ***NEW!***	2,500	276.00/M
P-Channel																
-100	-3700	-16.5	-2	-4.0	0.25	0.150	2800	-10	3.9	SOT-223	ZXMP10A18GCT-ND	1.86	1.59	ZXMP10A18GTR-ND	1,000	769.00
	-1600	-7.7	-2	-4.0	0.25	0.35	1400	-10	1.7	SOT-23-6	ZXMP10A17E6CT-ND	.77	.67	ZXMP10A17E6TR-ND	3,000	254.00/M
	-700	-3.1	-2	-4.0	0.25	1	-600	-10	.800	SOT23-3	ZXMP10A13FCT-ND	.69	.56	ZXMP10A13FTR-ND	3,000	195.00/M

◆ ***RoHS Compliant*** § Tape and Box

(Continued)

SOT-23-6

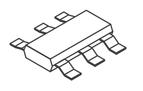

SOT-89

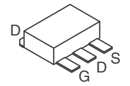

SOT-223

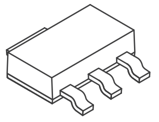

TO-92

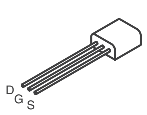

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

100-150 Volts *(Cont.)*

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
-100	-75	-1.2	-1.5	-3.5	1	20	-150	-10	.330	SOT23-3	ZVP3310FCT-ND	.81	.71	ZVP3310FTR-ND	3,000	268.00/M
	-310	-3.0	-1.5	-3.5	1	8.0	-0.375	-10	2.0	SOT-223	ZVP2110GCT-ND	1.14	1.02	ZVP2110GTR-ND	1,000	450.00
	-1400	-7.7	-2.0	-4.0	-0.25	0.45	-1200	-6	1.1	SOT-223	ZXMP10A17GCT-ND	.88	.76	ZXMP10A17GTR-ND	1,000	320.00
	-3800	-21.1	-2.0	-4.0	-0.25	0.190	-2400	-6	4.3	D-PAK	ZXMP10A18KTCCT-ND	1.52	1.36	ZXMP10A18KTCTR-ND	2,500	560.00/M
	-3900	-3.9	-2.0	-4.0	-0.25	0.450	-456	—	4.3	D-PAK	ZXMP10A17KCT-ND	1.09	.98	ZXMP10A17KTR-ND	2,500	402.00/M
	-3000	-15.4	-2.0	-4.0	-0.25	0.235	-2100	-10	4.24	D-PAK	ZXMP10A16KCT-ND	.97	.87	ZXMP10A16KTR-ND	2,500	357.00/M
NEW! N and P Channel Complementary NEW!																
100 -100	2000 -2000	9.4 -10.5	— —	3 -3	0.25 -0.25	0.230 0.235	2100 -2200	10 -10	1.8	SO-8	ZXMC10A816N8DICT-ND	1.06	.96	ZXMC10A816N8DITR-ND	2,500	392.00/M
100 -100	800 -680	4.3 -3.64	— —	4 -4	0.25 -0.25	0.70 1.00	1000 -900	10 -10	.87	SO-8	ZXMHC10A07N8DICT-ND	1.33	1.19	ZXMHC10A07N8DITR-ND	2,500	490.00/M

200 - 450 Volts

RoHS COMPLIANT

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
200	180	2	0.5	1.5	1	10	125	3	0.7	T092-3	ZVNL120A-ND	.78	.69	.53	.32
200	120	2	—	—	—	23	25	2.6	0.5	T092-3	BS107P-ND	.91	.80	.62	.37
200	100	1	1.0	3.0	1	25	100	10	0.625	T092-3	ZVN3320A-ND	.67	.59	.45	.27
240	160	2	1.0	3.0	1	16	250	10	0.7	T092-3	ZVN0124A-ND	.72	.63	.49	.29
240	260	1	0.8	1.8	1	6	100	2.5	0.75	T092-3	ZVN4424A-ND	1.12	1.00	.79	.49
450	90	0.6	1.0	3.0	1	50	100	10	0.7	T092-3	ZVN0545A-ND	1.63	1.48	1.19	.77
P-Channel															
-240	-200	-1	-0.8	-2.5	1	15	100	-3.5	0.75	T092-3	ZVP4424A-ND	1.16	1.03	.82	.50
-450	-45	-0.4	-1.5	-4.5	1	150	50	-10	0.7	T092-3	ZVP0545A-ND	1.61	1.43	1.13	.69

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
200	60	1.0	1.0	3.0	1.0	25	100	10	0.300	SOT23-3	ZVN3320FCT-ND	.52	.42	ZVN3320FTR-ND	3,000	147.00/M
	320	2.0	1.0	3.0	1.0	10	0.25	10	2.0	SOT-223	ZVN2120GCT-ND	.95	.85	ZVN2120GTR-ND	1,000	375.00
	320	2.0	0.5	1.5	1.0	10	0.125	3.0	2.0	SOT-223	ZVNL120GCT-ND	1.03	.92	ZVNL120GTR-ND	1,000	405.00
240	500	1.5	0.8	1.8	1.0	6.0	0.10	2.5	2.5	SOT-223	ZVN4424GCT-ND	1.20	1.08	ZVN4424GTR-ND	1,000	473.00
	300	1.0	0.8	1.8	1.0	6.0	100	2.5	1.0	SOT-89	ZVN4424ZCT-ND	.90	.78	ZVN4424ZTR-ND	1,000	328.00
250	230	1.44	0.8	1.8	1.0	9.50	20	2.4	1.1	SOT-23-6	ZVN4525E6CT-ND	1.01	.88	ZVN4525E6TR-ND	3,000	334.00/M
	240	1.44	0.8	1.8	1.0	9.50	20	2.4	2.1	SOT-89	ZVN4525ZCT-ND	.97	.84	ZVN4525ZTR-ND	1,000	352.00
	310	1.44	0.8	1.8	1.0	9.0	310	4.5	2.0	SOT-223	ZVN4525GCT-ND	1.01	.88	ZVN4525GTR-ND	1,000	368.00
450	140	0.6	1.0	3.0	1.0	50	100	10	2.0	SOT-223	ZXMN0545G4CT-ND	1.20	1.08	ZXMN0545G4TR-ND	1,000	473.00
	140	0.6	1.0	3.0	1.0	50	0.10	10	2.0	SOT-223	ZVN0545GCT-ND	.97	.84	ZVN0545GTR-ND	1,000	352.00
P-Channel																
-200	-200	-1.2	-1.5	-3.5	-1.0	25	-150	-10	2.0	SOT-223	ZVP2120GCT-ND	.79	.69	ZVP2120GTR-ND	1,000	288.00
	-200	-1.2	-1.5	-3.5	-1.0	25	-150	-10	2.0	SOT-223	ZXMP2120G4CT-ND	1.00	.90	ZXMP2120G4TR-ND	1,000	396.00
	-137	-0.8	-1.5	-3.5	-0.25	28	-150	-10	1.0	SOT23F-3	ZXMP2120FFCT-ND	.70	.61	ZXMP2120FFTR-ND	3,000	232.00/M
	-122	-1.2	-1.5	-3.5	-1.0	28	-150	-10	0.75	SOT-23-5	ZXMP2120E5CT-ND	.93	.81	ZXMP2120E5TR-ND	3,000	306.00/M
	-120	-1.2	-1.5	-3.5	-1.0	25	-150	-10	0.7	T092-3	ZVP2120ASCT-ND	.92	.80	ZVP2120ASTB-ND§	2,000	352.80/M
	-35	-0.4	-1.5	-3.5	-1.0	80	-50	-10	0.33	SOT23-3	ZVP1320FCT-ND	.66	.53	ZVP1320FTR-ND	3,000	186.00/M
-240	-480	-1.0	-0.7	-2.0	-1.0	11	-100	-3.5	2.5	SOT-223	ZVP4424GCT-ND	1.20	1.08	ZVP4424GTR-ND	1,000	473.00
-250	-197	-1.0	-0.8	-2.0	-0.25	18	-100	-3.5	1.1	SOT-23-6	ZVP4525E6CT-ND	1.01	.88	ZVP4525E6TR-ND	3,000	334.00/M
	-265	-1.0	-0.8	-2.0	-1.0	18	-0.10	-3.5	2.0	SOT-223	ZVP4525GCT-ND	.77	.67	ZVP4525GTR-ND	1,000	280.00
	-205	-1.0	-0.8	-2.0	-1.0	18	-100	-3.5	2.1	SOT-89	ZVP4525ZCT-ND	1.01	.88	ZVP4525ZTR-ND	1,000	368.00
-450	-75	-0.4	-1.5	-4.5	1.0	150	0.05	-10	2.0	SOT-223	ZVP0545GCT-ND	.96	.86	ZVP0545GTR-ND	1,000	378.00

Avalanche

RoHS COMPLIANT

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
60	600	8	1.3	3	1	1.5	500	5	0.7	T092-3	ZVN4206AV-ND	.76	.67	.52	.31
	1100	20	1.3	3	1	0.45	1500	5	1.1	T092-3	ZVN4306AV-ND	1.60	1.42	1.12	.69

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	@ Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
60	1000	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GVCT-ND	1.04	.94	ZVN4206GVTR-ND	1,000	411.00
	2100	20	1.3	3.0	1.0	0.33	3.0	10	3.0	SOT-223	ZVN4306GVCT-ND	1.76	1.52	ZVN4306GVTR-ND	1,000	731.00
200	60	1	1	3	1	25	100	10	.300	SOT-23	ZVN3320FCT-ND	.52	.42	ZVN3320FTR-ND	3,000	147.00/M

◆ ***RoHS Compliant*** § Tape and Box

TO-220

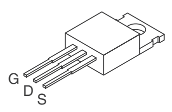

SOT-23-5

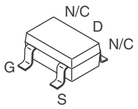

SOT-23F

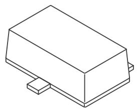

Voltage Supply Monitors

Typical Vcc (V)	Thresh-hold Voltage (V)	Typical Hysteresis (mV)	Maximum Output Sink Current (mA)	Input Voltage Range (V)	Maximum Quiescent Current (µA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
3	2.63	20	60	1 ~ 6.5	200	SO-8	ZSM300N8CT-ND	3.02	2.27	1.37	ZSM300N8TR-ND	500	529.20
	2.68	20	60	1 ~ 10	190	SOT-223	ZM331643GCT-ND	1.30	1.16	.93	—	—	—
3.3	3.1	20	50	-1 ~ 10	180	SO-8	ZSH330N8CT-ND	3.16	2.38	1.43	ZSH330N8TR-ND	500	553.35
5	4.6	20	50	-1 ~ 10	180	SO-8	ZSH560N8CT-ND	3.16	2.38	1.43	ZSH560N8TR-ND	500	553.35

◆ ***RoHS Compliant***

SO-8
Top View

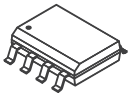

SOT-223
Top View

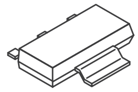

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Regulators

Low Dropout

V Out (V)	Dropout Voltage (mV)	I Maximum (mA)	Shutdown Current (µA)	Max. Load Regulation (mV)	Max. Line Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
ZLDO Series - Ultra Low — RoHS Compliant													
Adj.	1,110	1,000	4	.2	.1	SOT223-3	ZLDO1117GDICT-ND✔	.61	.49	.37	ZLDO1117GDITR-ND✔	1,000	187.00
Adj.	1,110	1,000	4	.2	.1	TO252-3	ZLDO1117KDICT-ND✔	.72	.58	.43	ZLDO1117KDITR-ND✔	2,500	202.00/M
1.2	1,110	1,000	4	.2	.1	SOT223-3	ZLDO1117G12DICT-ND✔	.61	.49	.37	ZLDO1117G12DITR-ND✔	1,000	187.00
1.2	1,110	1,000	4	.2	.1	TO252-3	ZLDO1117K12DICT-ND✔	.72	.58	.43	ZLDO1117K12DITR-ND✔	2,500	202.00/M
1.5	1,110	1,000	4	3	.1	SOT223-3	ZLDO1117G15DICT-ND✔	.61	.49	.37	ZLDO1117G15DITR-ND✔	1,000	187.00
1.5	1,110	1,000	4	3	.1	TO252-3	ZLDO1117K15DICT-ND✔	.72	.58	.43	ZLDO1117K15DITR-ND✔	2,500	202.00/M
1.8	1,110	1,000	4	4	.1	SOT223-3	ZLDO1117G18DICT-ND✔	.61	.49	.37	ZLDO1117G18DITR-ND✔	1,000	187.00
1.8	1,110	1,000	4	4	.1	TO252-3	ZLDO1117K18DICT-ND✔	.72	.58	.43	ZLDO1117K18DITR-ND✔	2,500	202.00/M
2.5	1,110	1,000	4	5	.1	SOT223-3	ZLDO1117G25DICT-ND✔	.61	.49	.37	ZLDO1117G25DITR-ND✔	1,000	187.00
2.5	1,110	1,000	4	5	.1	TO252-3	ZLDO1117K25DICT-ND✔	.72	.58	.43	ZLDO1117K25DITR-ND✔	2,500	202.00/M
3.3	35	300	11	52	78	SOT223-8	ZLDO330T8CT-ND	1.75	1.50	1.23	ZLDO330T8TR-ND	1,000	725.00
3.3	1,110	1,000	4	6.6	.1	SOT223-3	ZLDO1117G33DICT-ND✔	.61	.49	.37	ZLDO1117G33DITR-ND✔	1,000	187.00
3.3	1,110	1,000	4	6.6	.1	TO252-3	ZLDO1117K33DICT-ND✔	.72	.58	.43	ZLDO1117K33DITR-ND✔	2,500	202.00/M
4.85	35	300	11	69	119	SOT223-8	ZLDO485T8CT-ND	1.75	1.50	1.23	ZLDO485T8TR-ND	1,000	725.00
5	35	300	11	70	123	SOT223-8	ZLDO500T8CT-ND	1.75	1.50	1.23	ZLDO500T8TR-ND	1,000	725.00
5	1,110	1,000	4	10	.1	SOT223-3	ZLDO1117G50DICT-ND✔	.61	.49	.37	ZLDO1117G50DITR-ND✔	1,000	187.00
5	1,110	1,000	4	10	.1	TO252-3	ZLDO1117K50DICT-ND✔	.72	.58	.43	ZLDO1117K50DITR-ND✔	2,500	202.00/M

V Out (V)	Dropout (mV)@IL = 50mA	Maximum Load I (mA)	Shutdown I (µA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000
						1	10	100		
ZXCL Series - Very Small Micropower — RoHS Compliant										
2.50	85	100	1	SC70-5	ZXCL5213V25H5CT-ND	.64	.56	.44	—	—
	85	100	1	SOT23-5	ZXCL250E5TACT-ND	.75	.65	.51	ZXCL250E5TATR-ND	247.00/M
2.60	85	150	1	SC-70	ZXCL260H5CT-ND	.86	.75	.59	ZXCL260H5TR-ND	283.00/M
2.80	85	150	1	SC-70	ZXCL280H5CT-ND	1.02	.77	.46	ZXCL280H5TR-ND	255.00/M
	85	150	1	SOT23-5	ZXCL280E5CT-ND	.75	.65	.51	ZXCL280E5TR-ND	247.00/M
3.00	85	150	1	SC70-5	ZXCL5213V30H5CT-ND	.86	.75	.59	ZXCL5213V30H5TR-ND	283.00/M
	85	150	1	SOT23-5	ZXCL300E5TACT-ND	.77	.67	.53	ZXCL300E5TATR-ND	247.00/M
3.30	85	150	1	SC-70	ZXCL330H5CT-ND	.75	.65	.51	ZXCL330H5TR-ND	247.00/M
	85	150	1	SC70-5	ZXCL5213V33H5CT-ND	.86	.75	.59	ZXCL5213V33H5TR-ND	283.00/M
	85	150	1	SOT23-5	ZXCL330E5CT-ND	.61	.49	.37	ZXCL330E5TR-ND	171.00/M

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
NEW!* ZXRE Series - Very Low Quiescent Current Precision Micropower — RoHS Compliant *NEW!													
0.6	300	15	125	75	0.5	SC70-5	ZXRE060AH5DICT-ND	1.06	.96	.76	ZXRE060AH5DITR-ND	3,000	392.00/M
0.6	300	15	125	75	1	SC70-5	ZXRE060H5DICT-ND	.95	.85	.68	ZXRE060H5DITR-ND	3,000	350.00/M

Voltage

Output Voltage	Maximum Output Current (mA)	Maximum Quiescent Current (µA)	Max. Typical Dropout Voltage	Max. Line Reg. (mV)	Max. Load Reg. (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000
								1	10	100		
ZMR Series - Miniature — RoHS Compliant												
2.5	50	40	1.7	15	50	SOT23-3	ZMR250FCT-ND	1.08	.94	.74	ZMR250FTR-ND	355.00/M
2.5	50	40	1.7	15	50	TO92-3	ZMR250C-ND†	.94	.83	.64	—	—
3.3	50	40	1.7	15	50	SOT23-3	ZMR330FCT-ND ***NEW!***	1.47	1.11	.67	ZMR330FTR-ND ***NEW!***	355.00/M
5.0	50	70	1.7	15	50	SOT23-3	ZMR500FCT-ND	1.08	.94	.74	ZMR500FTR-ND	355.00/M

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
ZSR Series - Fixed												
3.0	200	0.2	40	25	SOT-223	ZSR300GCT-ND◆	1.31	1.17	.93	ZSR300GTR-ND◆	1,000	516.00
3.3	200	2.0	30	25	SOT-223	ZSR330GCT-ND◆	1.31	1.17	.93	ZSR330GTR-ND◆	1,000	516.00
4.85	200	2.78	40	25	SOT-223	ZSR485GTACT-ND	.98	.88	.70	—	—	—
5.0	200	2.0	40	25	SOT-223	ZSR500GCT-ND◆	1.31	1.17	.93	ZSR500GTR-ND◆	1,000	516.00
5.7	200	0.78	40	30	SO-8	ZSR570N8CT-ND	3.02	2.27	1.37	ZSR570N8TR-ND	500	529.20
6.0	200	2.0	40	30	SOT-223	ZSR600GCT-ND	1.81	1.36	.82	—	—	—
6.0	200	0.78	40	30	SO-8	ZSR600N8CT-ND	3.02	2.27	1.37	ZSR600N8TR-ND	500	529.20
8.0	200	2.0	40	30	SOT-223	ZSR800GCT-ND◆	1.74	1.56	1.24	ZSR800GTR-ND◆	1,000	687.00
7.0	200	0.78	40	25	SO-8	ZSR700N8CT-ND	1.52	1.31	1.07	—	—	—
10.0	200	2.0	40	30	SOT-223	ZSR1000GCT-ND◆	1.31	1.17	.93	ZSR1000GTR-ND◆	1,000	516.00
10.0	200	0.78	40	30	SO-8	ZSR1000N8CT-ND	3.02	2.27	1.37	—	—	—

◆ *RoHS Compliant* † Bulk ✔ ***NEW!***

(Continued)

Low Dropout Regulators

SOT223-3 ***NEW!***

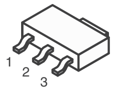

TO252-3 ***NEW!***

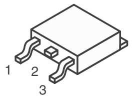

SOT223-8

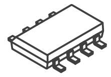

SC70, SC70-5, SOT23-5

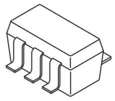

Voltage Regulators

Miniature

SOT-23-3
Top View

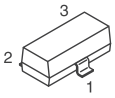

TO-92-3
Bottom View

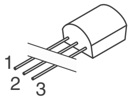

Fixed

SO-8
Top View

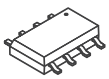

SOT-223
Top View

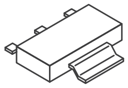

Shunt Voltage References

Reference Voltage	Minimum Operating Current (µA)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
					1	10	100		Qty.	Pricing
LM Series - Programmable — RoHS Compliant										
2.5	60	0.5	SOT23-3	LM4040C25FCT-ND	.75	.65	.51	LM4040C25FTR-ND	3,000	247.00/M
	65	1	SOT23-3	LM4040D25FCT-ND	.77	.62	.47	LM4040D25FTR-ND	3,000	217.00/M
5.0	74	0.5	SOT23-3	LM4040C50FCT-ND	.75	.65	.51	LM4040C50FTR-ND	3,000	247.00/M
	79	1	SOT23-3	LM4040D50FCT-ND	.77	.62	.47	LM4040D50FTR-ND	3,000	217.00/M
1.225	60	0.5	SOT23-3	LM4041CFCT-ND	.75	.65	.51	LM4041CFTR-ND	3,000	247.00/M
	65	1	SOT23-3	LM4041DFCT-ND	.77	.62	.47	LM4041DFTR-ND	3,000	217.00/M

Reference Voltage	Output Voltage		Minimum Operating Current (µA)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
	Min.	Max.					1	10	100		Qty.	Pricing
TLV, ZR, ZHT and ZTL Series - Programmable												
1.24	1.24	18	55	0.5	SOT23-3	TLV431BFCT-ND◆ ***NEW!***	.61	.49	.37	TLV431BFTR-ND◆ ***NEW!***	3,000	171.00/M
	1.24	10	30	1	TO92-3	ZR431LC01-ND†	.79	.70	.54	—	—	—
	1.24	10	30	1	SOT23-3	ZR431LF01CT-ND◆	.95	.85	.68	ZR431LF01TR-ND◆	3,000	350.00/M
	1.24	10	30	2.5	SOT23-3	ZR431LF02CT-ND◆	.96	.83	.66	ZR431LF02TR-ND◆	3,000	316.00/M
	1.24	10	30	1	SOT23-3	ZTLV431AFCT-ND◆	.66	.57	.45	ZTLV431AFTR-ND◆	3,000	218.00/M
2.5	2.5	20	0.1	2	SOT23-3	ZR431FCT-ND◆	.66	.57	.45	ZR431FTR-ND◆	3,000	218.00/M
	2.5	20	0.1	0.5	SOT23-3	ZR431F005TACT-ND◆	1.01	.91	.72	ZR431F005TATR-ND◆	3,000	371.00/M
	2.5	20	0.1	1	SOT23-3	ZR431F01CT-ND◆	.84	.73	.57	ZR431F01TR-ND◆	3,000	276.00/M
	2.5	20	0.1	1	SOT23-3	ZHT431F01CT-ND◆	1.37	1.23	.98	ZHT431F01TR-ND◆	3,000	504.00/M
	2.5	20	0.1	2	SOT23-3	ZHT431F02CT-ND◆	1.18	1.06	.84	ZHT431F02TR-ND◆	3,000	434.00/M
	2.5	20	0.5	1	SOT23-3	ZTL431AFCT-ND◆	.53	.38	.25	ZTL431AFTR-ND◆	3,000	90.00/M
	2.5	20	0.5	0.5	TO92-3	ZTL431BCSCT-ND◆	.57	.49	.39	—	—	—
	2.5	20	0.5	1	SOT23-5	ZTL431AE5CT-ND◆	.58	.46	.32	ZTL431AE5TR-ND◆	3,000	132.00/M
	2.5	20	0.5	0.5	SOT23-5	ZTL431BE5CT-ND◆	.66	.53	.40	ZTL431BE5TR-ND◆	3,000	186.00/M
	2.5	20	0.5	1	SOT23F-3	ZTL431AFFCT-ND◆	.58	.42	.28	ZTL431AFFTR-ND◆	3,000	99.00/M
	2.5	20	0.5	0.5	SOT23-3	ZTL431BFCT-ND◆	.58	.46	.32	ZTL431BFTR-ND◆	3,000	132.00/M
	2.5	20	0.5	1	SC70-6	ZTL431AH6CT-ND◆	.62	.49	.34	ZTL431AH6TR-ND◆	3,000	140.00/M
	2.5	20	0.5	1	SOT23-5	ZTL431ASE5CT-ND◆	.58	.46	.32	ZTL431ASE5TR-ND◆	3,000	132.00/M
	2.5	20	0.5	0.5	SOT23-3	ZTL431BFFCT-ND◆	.62	.49	.34	ZTL431BFFTR-ND◆	3,000	140.00/M
	2.5	20	0.5	0.5	SC70-6	ZTL431BH6CT-ND◆	.66	.53	.40	ZTL431BH6TR-ND◆	3,000	186.00/M
	2.5	20	0.5	0.5	SOT-23F	ZTL432BFFCT-ND◆	.62	.49	.34	ZTL432BFFTR-ND◆	3,000	140.00/M
	2.5	20	0.5	1	SOT23-3	ZTL432AFCT-ND◆	.53	.38	.25	ZTL432AFTR-ND◆	3,000	90.00/M
	2.5	20	0.5	0.5	SOT23-3	ZTL432BFCT-ND◆	.58	.46	.32	ZTL432BFTR-ND◆	3,000	132.00/M
	2.5	20	0.5	1	SOT23F-3	ZTL432AFFCT-ND◆	.58	.42	.28	ZTL432AFFTR-ND◆	3,000	99.00/M

VO (V)	DVref (mV)		Iref (mA)		Slope Resistance		Trim Range	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000
	Typ.	Max.	Min.	Max.	Typ.	Max.				1	10	100		
ZRT Trimmable														
2.5	2.7	8.8	0.15	75	0.85	2	5.0%	SOT-223	ZRT025GC1CT-ND◆	2.26	1.94	1.59	ZRT025GC1TR-ND◆	937.00
4.0	4.2	14.0	0.15	75	1.1	3	5.0%	SOT-223	ZRT040GC1CT-ND◆	2.26	1.94	1.59	ZRT040GC1TR-ND◆	937.00
5.0	5.4	17.2	0.15	60	1.25	2	5.0%	SOT-223	ZRT050GC1CT-ND◆	2.26	1.94	1.59	ZRT050GC1TR-ND◆	937.00
6.17	6.5	22.0	0.15	50	1.4	3	5.0%	SOT-223	ZRT062GC1CT-ND	2.05	1.76	1.44	—	—

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
ZR Series - Fixed, Precision Micropower													
2.5	20	5	90	1	1	SOT23-3	ZRC250F01CT-ND◆	1.39	1.25	1.00	ZRC250F01TR-ND◆	3,000	514.00/M
	20	5	90	1	2	SOT23-3	ZRC250F02CT-ND◆	1.12	1.01	.80	ZRC250F02TR-ND◆	3,000	414.00/M
	20	5	90	1	3	SOT23-3	ZRC250F03CT-ND◆	1.01	.91	.72	—	—	—
	20	20	90	1	2	SOT23-3	ZR285F02CT-ND◆	1.13	1.02	.81	ZR285F02TR-ND◆	3,000	417.00/M
	20	20	90	1	3	SOT23-3	ZR285F03CT-ND◆	1.45	1.30	1.03	—	—	—
	25	60	30	0.4	0.5	SOT23-3	ZR404005F25TACT-ND◆	1.39	1.25	.99	ZR404005F25TATR-ND◆	3,000	512.00/M
	50	20	90	2	1	SOT23-3	ZR40401F25CT-ND◆	1.09	.98	.78	ZR40401F25TR-ND◆	3,000	400.00/M
	50	20	90	2	2	SOT23-3	ZR40402F25CT-ND	.79	.69	.54	ZR40402F25TR-ND	3,000	261.00/M
3.3	20	5	50	2	1	SOT23-3	ZRC330F01CT-ND◆	1.39	1.25	1.00	ZRC330F01TR-ND◆	3,000	514.00/M
	20	5	50	2	3	SOT23-3	ZRC330F03CT-ND◆	1.17	1.06	.84	ZRC330F03TR-ND◆	3,000	433.00/M
	20	5	50	2	1	SO-8	ZRC330N801CT-ND	1.46	1.31	1.04	ZRC330N801TR-ND	500	295.93
4.096	23	5	90	2	1	SOT23-3	ZRC400F01CT-ND◆	1.33	1.19	.95	ZRC400F01TR-ND◆	3,000	490.00/M
	50	20	90	2	1	SOT23-3	ZR40401F41CT-ND◆	1.09	.98	.78	ZR40401F41TR-ND◆	3,000	400.00/M
	50	20	90	2	2	SOT23-3	ZR40402F41CT-ND◆	.91	.79	.62	ZR40402F41TR-ND◆	3,000	299.00/M
5.0	25	5	90	2	1	SOT23-3	ZRC500F01CT-ND◆	1.33	1.19	.95	ZRC500F01TR-ND◆	3,000	490.00/M
	50	15	50	1.5	1	SOT23-3	ZRB500F01CT-ND◆	1.39	1.25	1.00	ZRB500F01TR-ND◆	3,000	514.00/M
	50	15	50	1.5	2	SOT23-3	ZRB500F02CT-ND	1.12	1.01	.80	ZRB500F02TR-ND	3,000	414.00/M
	50	15	50	1.5	3	SOT23-3	ZRB500F03CT-ND◆	1.17	1.06	.84	ZRB500F03TR-ND◆	3,000	433.00/M
	50	20	90	1.5	1	SOT23-3	ZR40401F50CT-ND◆	1.09	.98	.78	ZR40401F50TR-ND◆	3,000	400.00/M
	50	20	90	1.5	2	SOT23-3	ZR40402F50CT-ND◆	.91	.79	.62	ZR40402F50TR-ND◆	3,000	299.00/M

◆ ***RoHS Compliant*** † Bulk ✓ ***NEW!***

(Continued)

Shunt Voltage References

Programmable

SO-8

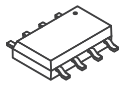

SOT-23-3, SOT-23F-3

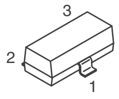

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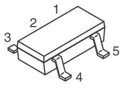

TO-92-3, TO-92

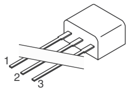

SC70-6

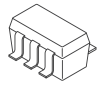

Trimmable

SOT-223

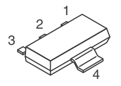

Regulators

Shunt Voltage References *(Cont.)*

Reverse Breakdown Voltage	Minimum Current (µA)	Maximum Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	250
ZXRE Series - Very Low Quiescent Current Precision Micropower											
1.225	30	12	75	0.5	1	TO92-3	ZXRE4041DR-ND	1.17	1.04	.82	.72

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
ZXRE Series - Very Low Quiescent Current Precision Micropower													
0.6	300	15	125	75	0.5	TSOT23-5	ZXRE060AET5DICT-ND◆✔	1.06	.96	.76	ZXRE060AET5DITR-ND◆✔	3,000	392.00/M
	300	15	125	75	1	TSOT23-5	ZXRE060ET5DICT-ND◆✔	.95	.85	.68	ZXRE060ET5DITR-ND◆✔	3,000	350.00/M
1.22	8	20	75	0.5	1	SOT23-3	ZXRE1004DFCT-ND◆	1.33	1.19	.95	ZXRE1004DFTR-ND◆	3,000	490.00/M
	8	20	75	0.5	1	SO-8	ZXRE1004DN8CT-ND	2.15	1.85	1.51	ZXRE1004DN8TR-ND	500	474.81
	8	20	75	0.5	2	SOT23-3	ZXRE1004EFCT-ND◆	1.29	1.16	.92	ZXRE1004EFTR-ND◆	3,000	475.00/M
	4	20	75	0.6	3	SOT23-3	ZXRE1004FFCT-ND◆	1.17	1.06	.84	ZXRE1004FFTR-ND◆	3,000	433.00/M
	30	5	90	0.5	0.5	SOT23-3	ZXRE125CFCT-ND◆	2.24	1.93	1.58	ZXRE125CFTR-ND◆	3,000	865.00/M
	30	5	90	0.5	1	SOT23-3	ZXRE125DFCT-ND◆	1.52	1.37	1.09	ZXRE125DFTR-ND◆	3,000	561.00/M
	30	5	90	0.5	1	SO-8	ZXRE125DN8CT-ND	1.46	1.31	1.04	—	—	—
	30	5	90	0.5	2	SOT23-3	ZXRE125EFCT-ND◆	1.29	1.16	.92	ZXRE125EFTR-ND◆	3,000	475.00/M
	30	5	90	0.5	3	SOT23-3	ZXRE125FFCT-ND◆	1.17	1.06	.84	ZXRE125FFTR-ND◆	3,000	433.00/M
1.225	30	12	75	0.5	0.5	SOT23-3	ZXRE4041CFCT-ND◆	1.39	1.25	.99	ZXRE4041CFTR-ND◆	3,000	512.00/M
	30	12	75	0.5	1	SOT23-3	ZXRE4041DFCT-ND◆	1.09	.98	.78	ZXRE4041DFTR-ND◆	3,000	400.00/M

◆ ***RoHS Compliant*** † Bulk ✔ ***NEW!***

Shunt Voltage References

Micropower

SO-8

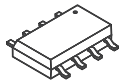

SOT-23-3

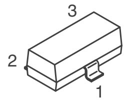

TO-92-3

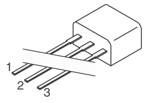

TSOT23-5

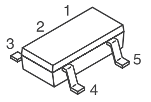

Specialized Integrated Circuits

Lighting ICs

Zetex provides high value, system level solutions based on a unique portfolio of integrated, discrete and combination analog products.

Zetex is a leading provider of driving solutions for power LED drive applications which include display screens, architectural, automotive, luminaire, safety and security. The Zetex range of dedicated LED boost and buck driver ICs are recognized for their high efficiency, cost effectiveness and incredible versatility.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Boost Converter for LCD Bias	10-MSOP	ZXLB1600X10TACT-ND◆	2.14	1.84	1.50	ZXLB1600X10TATR-ND◆	1,000	887.00
Boost Converter LED Driver with Switch	SC70-6	ZXLD1100H6CT-ND◆	1.99	1.71	1.40	ZXLD1100H6TR-ND◆	3,000	990.00/M
Boost Converter LED Driver with Switch	SOT23-5	ZXLD1101ET5CT-ND◆	1.80	1.54	1.26	ZXLD1101ET5TR-ND◆	3,000	693.00/M
Boost Converter LED Driver with Switch	TSOT-5	ZXLD1937ET5CT-ND◆	1.80	1.54	1.26	ZXLD1937ET5TR-ND◆	3,000	693.00/M
Boost Converter Adjustable DC/DC with Switch	SC70-6	ZXLD1601H6CT-ND◆	2.31	1.98	1.62	ZXLD1601H6TR-ND◆	3,000	891.00/M
Boost Converter, 1 Cell	MSOP-8	ZXSC100X8CT-ND	1.70	1.46	1.20	—	—	—
Boost Converter, 1 Cell LED	SOT23-5	ZXSC300E5CT-ND◆	1.00	.90	.72	ZXSC300E5TR-ND◆	3,000	370.00/M
Boost Converter, 1 Cell LED	SOT23-5	ZXSC310CT-ND◆	1.12	1.01	.80	ZXSC310TR-ND◆	3,000	414.00/M
Single or Multi Cell LED Driver Solution	SOT23-3	ZXSC380FHCT-ND◆	.88	.76	.60	ZXSC380FHTR-ND◆	3,000	290.00/M
Single or Multi Cell LED Driver Solution	SOT23-3	ZXLD381FHCT-ND◆	1.06	.92	.72	ZXLD381FHTR-ND◆	3,000	348.00/M
Boost Converter LED Driver with Shutdown	SOT23-6	ZXSC400E6TACT-ND◆	1.20	1.08	.86	ZXSC400E6TATR-ND◆	3,000	444.00/M
Adjustable DC/DC Boost Converter with Internal Switch	TSOT23-5	ZXLD1615ET5CT-ND◆	1.80	1.54	1.26	ZXLD1615ET5TR-ND◆	3,000	693.00/M
Adjustable DC/DC Boost Converter with Internal Switch	14-TDFN	ZXLD1321DCACT-ND◆	3.24	2.92	2.38	ZXLD1321DCATR-ND◆	3,000	1436.00/M
Adjustable DC/DC Buck Converter with Internal Switch	14-TDFN	ZXLD1320DCACT-ND◆	3.12	2.81	2.29	ZXLD1320DCATR-ND◆	3,000	1383.00/M
Adjustable DC/DC Buck/Boost Converter w/ Internal Switch	14-DFN	ZXLD1322DCCCT-ND◆	3.36	3.03	2.47	ZXLD1322DCCTR-ND◆	3,000	1490.00/M
LED Driver with Switch, 350mA	TSOT-5	ZXLD1350ET5CT-ND◆	2.24	1.92	1.57	ZXLD1350ET5TR-ND◆	3,000	693.00/M
LED Driver with Internal Switch, 1A	TSOT-5	ZXLD1360ET5CT-ND◆	3.36	3.03	2.47	ZXLD1360ET5TR-ND◆	3,000	1490.00/M
LED Driver with Internal Switch, 1A	TSOT-5	ZXLD1362ET5CT-ND◆	3.75	3.38	2.75	ZXLD1362ET5TR-ND◆	3,000	1663.00/M
LED Driver with Internal Switch, 550mA	6-DFN	ZXLD1356DACCT-ND◆	3.15	2.70	2.21	ZXLD1356DACTR-ND◆	3,000	1215.00/M
LED Driver with Internal Switch, 550mA	TSOT-5	ZXLD1356ET5CT-ND◆	2.80	2.40	1.96	ZXLD1356ET5TR-ND◆	3,000	1080.00/M
LED Driver with Internal Switch, 1A	6-DFN	ZXLD1366DACCT-ND◆	4.05	3.65	2.97	ZXLD1366DACTR-ND◆	3,000	1796.00/M
LED Driver with Internal Switch, 1A	TSOT-5	ZXLD1366ET5CT-ND◆	3.75	3.38	2.75	ZXLD1366ET5TR-ND◆	3,000	1663.00/M
LED Driver with Internal Switch, Enhanced PWM Dimming Range	TSOT-5	ZXLD1352ET5CT-ND◆	2.24	1.92	1.57	ZXLD1352ET5TR-ND◆	3,000	864.00/M
LED Driver with Enable/Rectifier Input for Solar Lamps	TSOT-5	ZXLD383ET5CT-ND◆	.99	.89	.71	ZXLD383ET5TR-ND◆	3,000	364.00/M
60V High Accuracy Buck/Boost/Buck-Boost LED Driver Controller	TSSOP-16	ZXLD1370EST16TCCT-ND◆ ***NEW!***	3.00	2.70	2.20	ZXLD1370EST16TCTR-ND◆ ***NEW!***	2,500	1330.00/M
Camera Flash Charger - Photoflash Charger	MSOP-8	ZXSC440X8CT-ND◆	2.00	1.71	1.40	ZXSC440X8TR-ND◆	1,000	827.00

◆ ***RoHS Compliant***

Current and Sense Monitors

The ZXCT range of high side current monitors and current sense amplifiers provides elegant design solutions for current measurement and power control.
ZXCT1009: This current sensing monitor takes a high side voltage developed across a current shunt resistor and translates it into a scaled ground referenced current. **ZXCT1010:** Offers reduced typical offset and improved accuracy at low sense voltages. **ZXCT1021/1022:** These current sense amplifiers are particularly suited to low sense voltage applications.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
High-Side Current Monitor	SOT23-3	ZXCT1009FCT-ND◆	1.09	.98	.78	ZXCT1009FTR-ND◆	3,000	403.00/M
High-Side Current Monitor	SOT23-3	ZXCT1008FCT-ND◆	1.22	1.09	.87	ZXCT1008FTR-ND◆	3,000	448.00/M
High-Side Current Monitor	SM8	ZXCT1009T8CT-ND◆	1.85	1.59	1.30	ZXCT1009T8TR-ND◆	1,000	766.00
High-Side Current Monitor	SOT23-5	ZXCT1011E5CT-ND◆	1.31	1.17	.93	ZXCT1011E5TR-ND◆	3,000	482.00/M
Current Monitor	SOT23-5	ZXCT1010CT-ND◆	1.31	1.17	.93	ZXCT1010TR-ND◆	3,000	482.00/M
High-Side Current Monitor	SOT23-5	ZXCT1021E5TACT-ND◆	1.44	1.30	1.03	ZXCT1021E5TATR-ND◆	3,000	532.00/M
High-Side Current Monitor	SOT23-5	ZXCT1022E5TACT-ND◆	1.44	1.30	1.03	ZXCT1022E5TATR-ND◆	3,000	532.00/M
High-Side Current Monitor with Comparator	8-SOIC	ZXCT1030N8CT-ND◆	1.71	1.53	1.22	ZXCT1030N8TR-ND◆	500	427.50
High-Side Inrush Controller and Electronic Fuse	8-SOIC	ZXCT1032N8CT-ND◆	1.75	1.50	1.23	ZXCT1032N8TR-ND◆	500	437.50
Double Current Sensor using Magnetic Sensing 10A	14DIP	ZMC10D-ND†	8.41	7.58	6.23	—	—	—
Precision Wide Input Range Current Monitor	SOT23-5	ZXCT1050E5CT-ND◆	1.52	1.36	1.08	ZXCT1050E5TR-ND◆	3,000	560.00/M
Wide Input Range Current Monitor	SOT23-5	ZXCT1051E5CT-ND◆	1.52	1.36	1.08	ZXCT1051E5TR-ND◆	3,000	560.00/M
Bidirectional Precision High-Side Current Monitor	SOT23-5	ZXCT1041E5CT-ND◆	1.85	1.59	1.30	ZXCT1041E5TR-ND◆	3,000	713.00/M
High Voltage High-Side Current Monitor	SOT23-5	ZXCT1080E5CT-ND◆	1.80	1.61	1.28	ZXCT1080E5TR-ND◆	3,000	662.00/M
High Voltage High-Side Current Monitor	SOT23-5	ZXCT1081E5CT-ND◆	1.63	1.47	1.17	ZXCT1081E5TR-ND◆	3,000	602.00/M
High Voltage High-Side Current Monitor	SOT23-5	ZXCT1082E5TACT-ND◆ ***NEW!***	1.75	1.50	1.23	ZXCT1082E5TATR-ND◆ ***NEW!***	3,000	675.00/M
Reduced Height Micro-Power Current Monitor	TDFN-5	ZXCT1012DAACT-ND◆	1.75	1.50	1.23	ZXCT1012DAATR-ND◆	3,000	675.00/M
Reduced Height Micro-Power Current Monitor	TSOT23-5	ZXCT1012ET5CT-ND◆	1.52	1.36	1.08	ZXCT1012ET5TR-ND◆	3,000	560.00/M
Low Offset Current Output Current Monitor	SOT23-5	ZXCT1020E5CT-ND◆	1.44	1.30	1.03	ZXCT1020E5TR-ND◆	3,000	532.00/M
Complementary Current Mirror	SOT223-8	ZDS1009CT-ND◆	2.57	2.21	1.81	ZDS1009TR-ND◆	1,000	1066.00

◆ ***RoHS Compliant*** † Tube

(Continued)

Specialized Integrated Circuits *(Cont.)*

Switching Audio Amplifier Solutions

Zetex brings together vast device design expertise with advanced product capability and many years of audio systems design to create innovative audio solutions which meet all of these needs: • Exceptional sound quality • A smaller space • Less power • Affordable price

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
High Performance Analog Input Class D Modulator	16-QFN	ZXCD1210JB16CT-ND	5.40	4.86	3.96	ZXCD1210JB16TR-ND	1,000	2520.00
4:2 IF Switch with Integrated Gain and Control	24-QFN	ZXHF5000JB24CT-ND	6.76	6.12	5.10	ZXHF5000JB24TR-ND	3,000	3315.00/M

Analog Video Products

The Zetex range of video solutions has been expanded by the addition of a sync separator and a DC restore amplifier. **ZXFV4583:** Separates out the embedded sync information from PAL, NTSC, SECAM and other analog video signals. **ZXFV4089:** Uses a sync pulse (typically from a sync separator) to restore the video black level to the correct DC voltage. The high speed amplifiers/buffers include quad and single amplifiers plus multi-channel unity-gain buffers. **ZXFV202:** Single video amplifier is available in SOT23 and SO8 offering superb differential gain and phase performance of 0.01%/0.01° respectively. **ZXFV301N16:** 4:1 multiplexers are for use in video and other high speed applications. With greater versatility, they have different channel selection plus an output enable.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Hi-Performance Sync Separator	16-SOIC	ZXFV4583N16CT-ND◆	6.02	5.45	4.55	—	—	—
Dual Video Amplifiers	8-SOIC	ZXFV204N8CT-ND	2.85	2.45	2.00	—	—	—
Video DC Restore Amplifier	8-SOIC	ZXFV4089N8TCCT-ND◆	3.78	3.41	2.78	ZXFV4089N8TCTR-ND◆	2,500	1676.00/M
1 Channel 300MHz CFB Amplifier	SOT23-5	ZXFV202E5CT-ND	1.31	1.17	.93	—	—	—
4 Channel 300MHz CFB Amplifier	14-SOIC	ZXFV201N14CT-ND	3.06	2.76	2.25	—	—	—
Triple Amplifier Video	14-SOIC	ZXFV203N14CT-ND	2.41	2.07	1.69	—	—	—
Variable Q Notch/Bandpass Filter	24-SOIC(W)	ZXF36L01W24-ND‡	8.11	7.30	6.01	—	—	—
Evaluation Board for ZXFV4583/ ZXFV4089	—	ZXFV4583EV-ND‡	94.39	—	—	—	—	—
Evaluation Board for ZXFV201, Quad Video Amplifier	—	ZXFV201EV-ND‡	64.78	—	—	—	—	—

◆ ***RoHS Compliant*** ‡ Bulk

DC - DC Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Boost Converter	SOT23-6	ZXSC410E6TACT-ND	1.52	1.36	1.08	ZXSC410E6TATR-ND	3,000	560.00/M
Boost Converter	SOT23-6	ZXSC420E6TACT-ND	1.52	1.36	1.08	ZXSC420E6TATR-ND	3,000	560.00/M
Switched Capacitor DC to DC Converter	SOT23-6	ZXCP330E6TACT-ND	1.70	1.46	1.20	—	—	—
MOSFET/IGBT Gate Driver, 9A (peak)	SOT23-6	ZXGD3001E6CT-ND◆	.88	.77	.61	ZXGD3001E6TR-ND◆	3,000	291.00/M
MOSFET/IGBT Gate Driver, 9A (peak)	SOT23-6	ZXGD3002E6CT-ND◆	.88	.77	.61	ZXGD3002E6TR-ND◆	3,000	291.00/M
MOSFET/IGBT Gate Driver, 5A (peak)	SOT23-6	ZXGD3003E6CT-ND◆	.69	.60	.47	ZXGD3003E6TR-ND◆	3,000	226.00/M
MOSFET/IGBT Gate Driver, 8A (peak)	SOT23-6	ZXGD3004E6CT-ND◆	.88	.77	.61	ZXGD3004E6TR-ND◆	3,000	291.00/M

◆ ***RoHS Compliant***

Special Function ICs

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Precision Single Cell Timer	8-DIP	ZSCT1555D8-ND†	1.55	1.40	1.13	—	—	—
Precision Single Cell Timer	8-SOIC	ZSCT1555N8CT-ND◆	2.03	1.74	1.43	ZSCT1555N8TR-ND◆	500	507.50
Complementary 60V Enhancement Mode Mosfet H-Bridge	SM8	ZXMHC6A07T8CT-ND◆	1.93	1.65	1.35	ZXMHC6A07T8TR-ND◆	1,000	798.00
Complementary 100V Enhancement Mode Mosfet H-Bridge	SM8	ZXMHC10A07T8CT-ND◆	1.93	1.65	1.35	ZXMHC10A07T8TR-ND◆	1,000	798.00
Synchronous Rectifier Controller for Flyback Converters	SOT223-8	ZXGD3101T8CT-ND◆	3.43	2.94	2.41	ZXGD3101T8TR-ND◆	1,000	1421.00
Angle Sensor	SOT223-8	ZMT31CT-ND◆	6.87	6.19	5.04	ZMT31TR-ND◆	1,000	3206.00
Temperature Sensor	SOT23-3	ZNI1000CT-ND◆	2.77	2.38	1.94	ZNI1000TR-ND◆	3,000	1068.00/M

◆ ***RoHS Compliant*** † Tube

Motor and Fan Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Brushless Fan Motor Controller with Speed Pulse	10-MSOP	ZXBM2003X10CT-ND◆	1.85	1.66	1.32	ZXBM2003X10TR-ND◆	4,000	680.00/M
Brushless H-Bridge Motor Controller Single-Phase with Variable Speed	20-TSSOP	ZXBM1015ST20CT-ND◆	2.83	2.43	1.98	ZXBM1015ST20TR-ND◆	2,500	1091.00/M
Variable Speed, Single-Phase DC Brushless Motor Controller	16-QSOP	ZXBM1004Q16CT-ND	1.78	1.53	1.25	ZXBM1004Q16TR-ND	500	516.50
Variable Speed, Single-Phase DC Brushless Motor Controller	16-QSOP	ZXBM1004Q16TCCT-ND◆	2.50	2.14	1.75	ZXBM1004Q16TCTR-ND◆	2,500	963.00/M
Variable Speed, 2-Phase DC Brushless Motor Controller	16-QSOP	ZXBM2004Q16TCCT-ND◆	1.32	1.19	.95	—	—	—
Variable Speed, Single-Phase DC Brushless Motor Controller	20-TSSOP	ZXBM1016ST20CT-ND◆	3.11	2.67	2.18	ZXBM1016ST20TR-ND◆	500	777.00
Variable Speed, Single-Phase DC Brushless Motor Controller	20-TSSOP	ZXBM1017ST20CT-ND◆	2.83	2.43	1.98	ZXBM1017ST20TR-ND◆	2,500	1091.00/M

◆ ***RoHS Compliant***

Magnetic Field Sensors

Extremely sensitive magnetic sensors utilizing the magneto-resistive properties of thin film permalloy. They are also incorporated into a range of low insertion loss and high isolation current sensors.

Features: • Output voltage proportional to magnetic field Hy • Measures fields parallel to the chip

Applications: • Linear position measurement • Angular position measurement • Navigation (electronic compass) • Revolution measurement

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Magnetic Field Sensor with Internal Magnet	SOT-223	ZMY20MTACT-ND	4.80	4.32	3.52	ZMY20MTATR-ND	1,000	2240.00
Magnetic Field Sensor without Internal Magnet	SOT-223	ZMY20TACT-ND	3.09	2.79	2.27	—	—	—
Magnetic Field Sensor 4 Pin	E-Line 4	ZMZ20-ND‡	4.16	3.72	3.05	—	—	—
Dual Magnetic Field Sensor, Magneto-Resistive	SM8	ZMX40MT8TACT-ND	9.12	8.26	6.88	ZMX40MT8TATR-ND	1,000	4644.00

‡ Bulk

Panasonic® Transistor Arrays - Composite Transistors (Built-in Resistor)

Dimensions in mm

Fig. 1

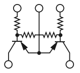

Fig. 2

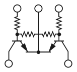

Fig. 3

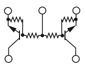

Fig. 4

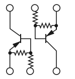

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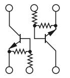

Fig. 6

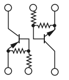

Fig . 7

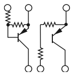

Fig. 8

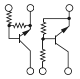

Fig. 9

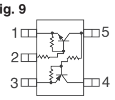

Fig. 10

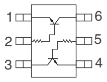

Fig. 11

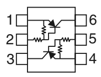

Fig. 12

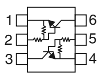

Fig. 13

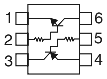

Fig. 14

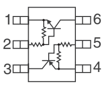

Fig. 15

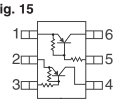

Fig. 16

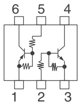

Fig. 17

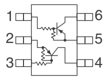

Fig. 18

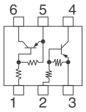

Fig. 19

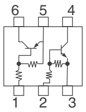

Fig. 20

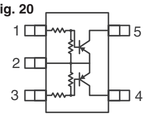

Fig. 21

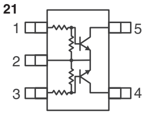

Fig. 22

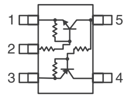

Fig. 23

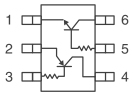

Mini Type (5-pin)/
EIAJ: SC-74A

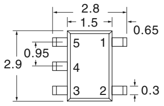

Mini Type (6-pin)/
EIAJ: SC-74

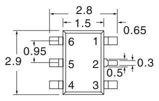

S-Mini Type (5-pin)/
EIAJ: SC-88A

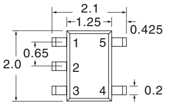

S-Mini Type (6-pin)/
EIAJ: SC-88

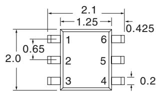

SS-Mini Type (5-pin)

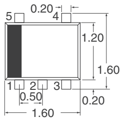

SS-Mini Type (6-pin)

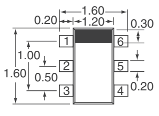

SSS-Mini Type (6-pin)

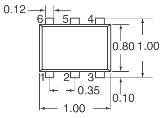

Fig.	Package	Basic Type		Resistor Value		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
		PNP	NPN	RB (KΩ)	RBE (KΩ)		1	10	100		Qty.	Pricing
1	Mini 5Pin	UN211F x2	—	4.7	10	XN0111F00LCT-ND	.42	3.47	27.74	—	—	—
	Mini 5Pin	DRA2123Y x2	—	2.2	10	DMA2610H0RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA2610H0RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	UNR211M x2	—	2.2	47	XN0111M00LCT-ND◆	.42	3.37	23.12	—	—	—
	Mini 5Pin	UN1110 x2	—	47	open	XN0111000LCT-ND	.42	3.47	27.74	XN0111000LTR-ND	3,000	111.00/M
	Mini 5Pin	DRA2144T x2	—	47	open	DMA261000RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA261000RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	UN2111 x2	—	10	10	XN0111100LCT-ND◆	.42	3.47	27.74	—	—	—
	Mini 5Pin	DRA2114E x2	—	10	10	DMA261010RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA261010RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	UN2112 x2	—	22	22	XN0111200LCT-ND	.42	3.47	27.74	XN0111200LTR-ND	3,000	111.00/M
	Mini 5Pin	UN2113 x2	—	47	47	XN0111300LCT-ND	.42	3.47	27.74	—	—	—
	Mini 5Pin	DRA2144E x2	—	47	47	DMA261030RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA261030RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	UN2114 x2	—	10	47	XN0111400LCT-ND◆	.42	3.47	27.74	XN0111400LTR-ND◆	3,000	111.00/M
	Mini 5Pin	DRA2114T x2	—	10	open	DMA261050RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA261050RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	UN2116 x2	—	4.7	open	XN0111600LCT-ND	.42	3.47	27.74	XN0111600LTR-ND	3,000	111.00/M
	Mini 5Pin	UN2119 x2	—	1	10	XN0111900LCT-ND◆	.42	3.47	27.74	XN0111900LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UNR221E x2	47	22	XN0121E00LCT-ND◆	.42	3.37	23.12	XN0121E00LTR-ND◆	3,000	109.00/M
	Mini 5Pin	—	UN2210 x2	47	open	XN0121000LCT-ND◆	.42	3.47	27.74	XN0121000LTR-ND◆	3,000	111.00/M
	Mini 5Pin	—	DRC2144T x2	47	open	DMC261000RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261000RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	—	UN2211 x2	10	10	XN0121100LCT-ND◆	.42	3.47	27.74	XN0121100LTR-ND◆	3,000	111.00/M
	Mini 5Pin	—	DRC2114E x2	10	10	DMC261010RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261010RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	—	DRC2124E x2	22	22	DMC261020RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261020RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	—	UN2213 x2	47	47	XN0121300LCT-ND◆	.42	3.47	27.74	—	—	—
	Mini 5Pin	—	UN2214 x2	10	47	XN0121400LCT-ND◆	.42	3.47	27.74	—	—	—
	Mini 5Pin	—	DRC2114Y x2	10	47	DMC261040RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261040RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	—	UN2215 x2	10	open	XN0121500LCT-ND◆	.42	3.47	27.74	XN0121500LTR-ND◆	3,000	111.00/M
	Mini 5Pin	—	DRC2114T x2	10	open	DMC261050RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261050RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 5Pin	—	DRC2143T x2	4.7	open	DMC261060RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC261060RTR-ND◆ ***NEW!***	3,000	109.16/M
22	Mini 5Pin	UNR2111	UNR2211	10	10	XN0A31100LCT-ND◆	.42	3.37	23.12	XN0A31100LTR-ND◆	3,000	109.00/M
	Mini 5Pin	UNR2112	UNR2212	22	22	XN0A31200LCT-ND◆	.42	3.37	23.12	XN0A31200LTR-ND◆	3,000	109.00/M
4	Mini 6Pin	—	UNR2226 x2	4.7	open	XN0F25600LCT-ND◆	.79	5.93	44.47	—	—	—
	Mini 6Pin	—	XNF261 x2	3.3	open	XN0F26100LCT-ND◆	.65	4.87	36.54	—	—	—
	Mini 6Pin	—	XNF263 x2	0.27	open	XN0F26300LCT-ND◆	.79	5.93	44.47	XN0F26300LTR-ND◆	3,000	257.00/M
	Mini 6Pin	UN2111 x2	—	10	10	XN0411100LCT-ND◆	.42	3.47	27.74	XN0411100LTR-ND◆	3,000	111.00/M
	Mini 6Pin	DRA2114E x2	—	10	10	DMA264010RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA264010RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	UN2112 x2	—	22	22	XN0411200LCT-ND	.42	3.47	27.74	—	—	—
	Mini 6Pin	DRA2124E x2	—	22	22	DMA264020RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA264020RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	UN2113 x2	—	47	47	XN0411300LCT-ND	.42	3.47	27.74	XN0411300LTR-ND	3,000	111.00/M
	Mini 6Pin	UN2114 x2	—	10	47	XN0411400LCT-ND◆	.42	3.47	27.74	XN0411400LTR-ND◆	3,000	111.00/M
	Mini 6Pin	DRA2114T x2	—	10	open	DMA264050RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMA264050RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	UN2116 x2	—	4.7	open	XN0411600LCT-ND	.42	3.47	27.74	XN0411600LTR-ND	3,000	111.00/M
	Mini 6Pin	UNR1130 x2	—	open	10	XN0413000LCT-ND◆	.86	6.48	48.61	XN0413000LTR-ND◆	3,000	281.00/M
5	Mini 6Pin	—	UNR221F x2	4.7	10	XN0421F00LCT-ND◆	.42	3.37	23.12	XN0421F00LTR-ND◆	3,000	109.00/M
	Mini 6Pin	—	DRC2143X x2	4.7	10	DMC2640F0RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC2640F0RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	—	UNR221L x2	4.7	4.7	XN0421L00LCT-ND◆	.42	3.37	23.12	XN0421L00LTR-ND◆	3,000	109.00/M
	Mini 6Pin	—	UN1210 x2	47	open	XN0421000LCT-ND◆	.42	3.47	27.74	XN0421000LTR-ND◆	3,000	111.00/M
	Mini 6Pin	—	DRC2144T x2	47	open	DMC264000RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC264000RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	—	DRC2114E x2	10	10	DMC264010RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC264010RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	—	DRC2124E x2	22	22	DMC264020RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC264020RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	—	UN2213 x2	47	47	XN0421300LCT-ND	.42	3.47	27.74	XN0421300LTR-ND	3,000	111.00/M
	Mini 6Pin	—	UN2214 x2	10	47	XN0421400LCT-ND◆	.42	3.47	27.74	XN0421400LTR-ND◆	3,000	111.00/M

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(Continued)

Fig.	Package	Basic Type PNP	Basic Type NPN	Resistor Value RB (KΩ)	Resistor Value RBE (KΩ)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
5	Mini 6Pin	—	DRC2114Y x2	10	47	DMC264040RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMC264040RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	—	UN2215 x2	10	open	XN0421500LCT-ND◆	.42	3.47	27.74	XN0421500LTR-ND◆	3,000	111.00/M
	Mini 6Pin	—	UN2216 x2	4.7	open	XN0421600LCT-ND◆	.42	3.47	27.74	XN0421600LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UN2111	UN2211	10	10	XN0431100LCT-ND◆	.42	3.47	27.74	—	—	—
	Mini 6Pin	DRA2114E	DRC2114E	10	10	DMG264010RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMG264010RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	UN2112	UN2212	22	22	XN0431200LCT-ND◆	.42	3.47	27.74	XN0431200LTR-ND◆	3,000	111.00/M
	Mini 6Pin	DRA2124E	DRC2124E	22	22	DMG264020RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMG264020RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	DRA2114Y	DRC2114Y	10	47	DMG264040RCT-ND◆ ***NEW!***	.42	3.37	23.12	DMG264040RTR-ND◆ ***NEW!***	3,000	109.16/M
	Mini 6Pin	UN2115	UN2115	10	open	XN0431500LCT-ND	.42	3.47	27.74	—	—	—
	Mini 6Pin	UN2116	UN2116	4.7	open	XN0431600LCT-ND	.42	3.47	27.74	XN0431600LTR-ND	3,000	111.00/M
	Mini 6Pin	UNR2122	UNR2222	4.7	4.7	XN0432200LCT-ND◆	.62	4.64	34.82	XN0432200LTR-ND◆	3,000	201.00/M
	Mini 6Pin	UN2122	UN2213	4.7	4.7	XN0438100LCT-ND◆	.42	3.47	27.74	XN0438100LTR-ND◆	3,000	111.00/M
	Mini 6Pin	UNR211S	2SD0601A	open	4.7	XN04A8800LCT-ND◆	.45	3.75	30.03	XN04A8800LTR-ND◆	3,000	120.00/M
7	Mini 6Pin	—	UN1213 x2	47	47	XN0621300LCT-ND	.42	3.47	27.74	XN0621300LTR-ND	3,000	111.00/M
	Mini 6Pin	—	UN1215 x2	10	open	XN0621500LCT-ND	.42	3.47	27.74	XN0621500LTR-ND	3,000	111.00/M
	Mini 6Pin	—	UN1216 x2	4.7	open	XN0621600LCT-ND	.42	3.47	27.74	XN0621600LTR-ND	3,000	111.00/M
8	Mini 6Pin	—	UNR2211 x2	10	10	XN0621100LCT-ND◆	.42	3.37	23.12	—	—	—
1	S Mini 5Pin	UN111F x2	—	4.7	10	XP0111F00LCT-ND	.48	3.98	31.87	—	—	—
	S Mini 5Pin	UN111H x2	—	2.2	10	XP0111H00LCT-ND	.48	3.98	31.87	XP0111H00LTR-ND	3,000	127.00/M
	S Mini 5Pin	UNR211M x2	—	2.2	47	XP0111M00LCT-ND◆	.44	3.69	29.51	XP0111M00LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	UNR2110 x2	—	47	open	XP0111000LCT-ND◆	.44	3.69	29.51	XP0111000LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	UN1111 x2	—	10	10	XP0111100LCT-ND	.48	3.98	31.87	XP0111100LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1112 x2	—	22	22	XP0111200LCT-ND	.48	3.96	31.71	XP0111200LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1113 x2	—	47	47	XP0111300LCT-ND	.48	3.98	31.87	XP0111300LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1114 x2	—	10	47	XP0111400LCT-ND	.48	3.98	31.87	XP0111400LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1115 x2	—	10	open	XP0111500LCT-N D	.48	3.98	31.87	XP0111500LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1116 x2	—	4.7	open	XP0111600LCT-ND	.48	3.98	31.87	XP0111600LTR-ND	3,000	127.00/M
	S Mini 5Pin	UN1119 x2	—	1	10	XP0111900LCT-ND	.48	3.98	31.87	XP0111900LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UNR221E x2	47	22	XP0121E00LCT-ND◆	.44	3.69	29.51	XP0121E00LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	—	UNR221L x2	4.7	4.7	XP0121L00LCT-ND◆	.44	3.69	29.51	XP0121L00LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	—	UNR221N x2	4.7	47	XP0121N00LCT-ND◆	.44	3.69	29.51	XP0121N00LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	—	UN1210 x2	47	open	XP0121000LCT-ND	.48	3.98	31.87	XP0121000LTR-ND	3,000	127.00/M
	S Mini 5Pin	—	UN1211 x2	10	10	XP0121100LCT-ND◆	.48	3.98	31.87	—	—	—
	S Mini 5Pin	—	UN1212 x2	22	22	XP0121200LCT-ND◆	.48	3.98	31.87	XP0121200LTR-ND◆	3,000	127.00/M
	S Mini 5Pin	—	UN1214 x2	10	47	XP0121400LCT-ND	.48	3.98	31.87	—	—	—
	S Mini 5Pin	—	UN1215 x2	10	open	XP0121500LCT-ND◆	.48	3.98	31.87	XP0121500LTR-ND◆	3,000	127.00/M
	S Mini 5Pin	—	UN1216 x2	4.7	open	XP0121600LCT-ND◆	.48	3.98	31.87	XP0121600LTR-ND◆	3,000	127.00/M
	S Mini 5Pin	—	UN1217 x2	22	open	XP0121700LCT-ND◆	.48	3.98	31.87	XP0121700LTR-ND◆	3,000	127.00/M
	S Mini 5Pin	—	UNR221M x2	2.2	47	XP0121M00LCT-ND◆	.37	2.98	20.46	—	—	—
22	S Mini 5Pin	UNR2111	UNR2211	10	10	XP0331100LCT-ND◆	.44	3.69	29.51	XP0331100LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	UNR2112	UNR2212	22	22	XP0331200LCT-ND◆	.44	3.69	29.51	XP0331200LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	UNR211F	UNR2213	4.7/47	10/47	XP0338300LCT-ND◆	.44	3.69	29.51	XP0338300LTR-ND◆	3,000	118.00/M
	S Mini 5Pin	UNR2114	UNR2213	10/47	47	XP0339000LCT-ND◆	.44	3.69	29.51	XP0339000LTR-ND◆	3,000	118.00/M
3	S Mini 6Pin	UN1111 x2	—	10	10	XP0411100LCT-ND	.48	3.98	31.87	XP0411100LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1112 x2	—	22	22	XP0411200LCT-ND	.48	3.98	31.87	XP0411200LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1113 x2	—	47	47	XP0411300LCT-ND	.48	3.98	31.87	XP0411300LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1114 x2	—	10	47	XP0411400LCT-ND	.48	3.98	31.87	XP0411400LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1115 x2	—	10	open	XP0411500LCT-ND	.48	3.98	31.87	XP0411500LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1116 x2	—	4.7	open	XP0411600LCT-ND	.48	3.98	31.87	—	—	—
4	S Mini 6Pin	DRA2114T x2	—	10	open	DMA564050RCT-ND◆ ***NEW!***	.44	3.69	29.51	DMA564050RTR-ND◆ ***NEW!***	3,000	118.04/M
5	S Mini 6Pin	—	UNR221M x2	2.2	47	XP0421M00LCT-ND◆	.44	3.69	29.51	—	—	—
	S Mini 6Pin	—	UN1210 x2	47	open	XP0421000LCT-ND	.48	3.98	31.87	XP0421000LTR-ND	3,000	127.00/M
	S Mini 6Pin	—	UN1211 x2	10	10	XP0421100LCT-ND◆	.48	3.98	31.87	XP0421100LTR-ND◆	3,000	127.00/M
	S Mini 6Pin	—	UN1212 x2	22	22	XP0421200LCT-ND	.48	3.98	31.87	—	—	—
	S Mini 6Pin	—	UN1213 x2	47	47	XP0421300LCT-ND	.48	3.98	31.87	XP0421300LTR-ND	3,000	127.00/M
	S Mini 6Pin	—	DRC2114Y x2	10	47	DMC564040RCT-ND◆ ***NEW!***	.44	3.69	29.51	DMC564040RTR-ND◆ ***NEW!***	3,000	118.04/M
	S Mini 6Pin	—	UN1215 x2	10	open	XP0421500LCT-ND	.48	3.98	31.87	XP0421500LTR-ND	3,000	127.00/M
	S Mini 6Pin	—	UN1216 x2	4.7	open	XP0421600LCT-ND◆	.48	3.98	31.87	XP0421600LTR-ND◆	3,000	127.00/M
	S Mini 6Pin	—	UNR221N x2	1/4.7	10/47	XP0428600LCT-ND◆	.44	3.69	29.51	XP0428600LTR-ND◆	3,000	118.00/M
6	S Mini 6Pin	UNR211N	UNR221N	4.7	47	XP0431N00LCT-ND◆	.44	3.69	29.51	XP0431N00LTR-ND◆	3,000	118.00/M
	S Mini 6Pin	UN1211	UN1111	10	10	XP0431100LCT-ND	.48	3.98	31.87	XP0431100LTR-ND	3,000	127.00/M
	S Mini 6Pin	UN1212	UN1112	22	22	XP0431200LCT-ND◆	.48	3.98	31.87	XP0431200LTR-ND◆	3,000	127.00/M
	S Mini 6Pin	UNR2113	UNR2213	47	47	XP0431300LCT-ND◆	.44	3.69	29.51	—	—	—
	S Mini 6Pin	DRA2144E	DRC2144E	47	47	DMG564030RCT-ND◆ ***NEW!***	.44	3.69	29.51	DMG564030RTR-ND◆ ***NEW!***	3,000	118.04/M
	S Mini 6Pin	DRA2114Y	DRC2114Y	10	47	DMG564040RCT-ND◆ ***NEW!***	.44	3.69	29.51	DMG564040RTR-ND◆ ***NEW!***	3,000	118.04/M
	S Mini 6Pin	UN1215	UN1115	10	open	XP0431500LCT-ND	.48	3.98	31.87	—	—	—
	S Mini 6Pin	UN1216	UN1116	4.7	open	XP0431600LCT-ND	.48	3.98	31.87	XP0431600LTR-ND	3,000	127.00/M
	S Mini 6Pin	UNR2119	UNR2213	1/47	10/47	XP0438700LCT-ND◆	.45	3.75	30.03	XP0438700LTR-ND◆	3,000	120.00/M
7	S Mini 6Pin	UNR2111 x2	—	10	10	XP0611100LCT-ND◆	.44	3.69	29.51	XP0611100LTR-ND◆	3,000	118.00/M
	S Mini 6Pin	UNR2113 x2	—	47	47	XP0611300LCT-ND◆	.44	3.69	29.51	XP0611300LTR-ND◆	3,000	118.00/M
	S Mini 6Pin	UN1115 x2	—	10	open	XP0611500LCT-ND	.48	3.98	31.87	XP0611500LTR-ND	3,000	127.00/M

◆ ***RoHS Compliant***

(Continued)

		Basic Type		Resistor Value			Cut Tape Pricing				Tape and Reel	
Fig.	Package	PNP	NPN	RB (KΩ)	RBE (KΩ)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	Qty.	Pricing
8	S Mini 6Pin	—	UNR2210 x2	47	open	XP0621000LCT-ND◆	.44	3.69	29.51	—	—	—
	S Mini 6Pin	—	UN1211 x2	10	10	XP0621100LCT-ND◆	.48	3.98	31.87	XP0621100LTR-ND◆	3,000	127.00/M
	S Mini 6Pin	—	UN1212 x2	22	22	XP0621200LCT-ND	.48	3.98	31.87	XP0621200LTR-ND	3,000	127.00/M
	S Mini 6Pin	—	UN1213 x2	47	47	XP0621300LCT-ND	.48	3.98	31.87	XP0621300LTR-ND	3,000	127.00/M
	S Mini 6Pin	—	UN1215 x2	10	open	XP0621500LCT-ND◆	.48	3.98	31.87	XP0621500LTR-ND◆	3,000	127.00/M
	S Mini 6Pin	—	UNR2216 x2	4.7	open	XP0621600LCT-ND◆	.44	3.69	29.51	XP0621600LTR-ND◆	3,000	118.00/M
11	S Mini 6Pin	DRA2114E x2	—	10	10	DMA564010RCT-ND◆ ***NEW!***	.44	3.69	29.51	DMA564010RTR-ND◆ ***NEW!***	3,000	118.04/M
20	SS Mini 5Pin	UNR2113 x2	—	47	47	UP0111300LCT-ND◆	.55	4.10	30.74	UP0111300LTR-ND◆	8,000	174.00/M
2	SS Mini 5Pin	—	UNR221M x2	2.2	47	UP0121M00LCT-ND◆	.55	4.10	30.74	UP0121M00LTR-ND◆	8,000	174.00/M
	SS Mini 5Pin	—	UNR221M x2	2.2	47	UP0121MG0LCT-ND◆	.55	4.10	30.74	UP0121MG0LTR-ND◆	8,000	174.18/M
21	SS Mini 5Pin	—	UNR2113 x2	47	47	UP0121300LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 5Pin	—	UNR1213 x2	47	47	UP01213G0LCT-ND◆	.55	4.10	30.74	UP01213G0LTR-ND◆	8,000	174.19/M
2	SS Mini 5Pin	—	UNR2214 x2	10	47	UP0121400LCT-ND◆	.55	4.10	30.74	UP0121400LTR-ND◆	8,000	174.00/M
	SS Mini 5Pin	—	UNR2214 x2	10	47	UP01214G0LCT-ND◆	.55	4.10	30.74	UP01214G0LTR-ND◆	8,000	174.18/M
9	SS Mini 5Pin	UNR2112	UNR2212	22	22	UP0331200LCT-ND◆	.59	4.43	33.20	UP0331200LTR-ND◆	8,000	188.00/M
	SS Mini 5Pin	UNR211F	UNR2213	47/4.7	47/10	UP0338300LCT-ND	.59	4.43	33.20	UP0338300LTR-ND	8,000	188.00/M
22	SS Mini 5Pin	UNR2114	UNR2213	10/47	47	UP0339000LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 5Pin	UNR1213	UNR1114	10/47	47	UP03390G0LCT-ND◆	.55	4.10	30.74	UP03390G0LTR-ND◆	8,000	174.18/M
	SS Mini 5Pin	UNR2118	UNR2213	47/.51	47/5.1	UP0339400LCT-ND◆	.55	4.10	30.74	UP0339400LTR-ND◆	8,000	174.00/M
	SS Mini 5Pin	UNR211T	UNR2211	10/22	10/47	UP0339600LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 5Pin	UNR2154	UNR2211	10	10/47	UP0339700LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 5Pin	UNR1211	UNR1154	10	10/47	UP03397G0LCT-ND◆	.55	4.10	30.74	UP03397G0LTR-ND◆	8,000	174.18/M
11	SS Mini 6Pin	UNR111M x2	—	2.2	47	UP0411M00LCT-ND◆	.59	4.43	33.20	—	—	—
	SS Mini 6Pin	UNR111M x2	—	2.2	47	UP0411MG0LCT-ND◆	.55	4.10	30.74	UP0411MG0LTR-ND◆	8,000	174.18/M
	SS Mini 6Pin	UN2111 x2	—	10	10	UP0411100LCT-ND◆	.61	4.59	34.43	UP0411100LTR-ND◆	8,000	195.00/M
	SS Mini 6Pin	UN2111 x2	—	10	10	UP04111G0LCT-ND◆	.55	4.10	30.74	UP04111G0LTR-ND◆	8,000	174.18/M
4	SS Mini 6Pin	UNR2112 x2	—	22	22	UP0411200LCT-ND◆	.55	4.10	30.74	UP0411200LTR-ND◆	8,000	174.00/M
	SS Mini 6Pin	UNR2112 x2	—	22	22	UP04112G0LCT-ND◆	.55	4.10	30.74	UP04112G0LTR-ND◆	8,000	174.18/M
11	SS Mini 6Pin	—	UNR2113 x2	47	47	UP0411300LCT-ND◆	.55	4.10	30.74	UP0411300LTR-ND◆	8,000	174.00/M
	SS Mini 6Pin	—	UNR2113 x2	47	47	UP04113G0LCT-ND◆	.55	4.10	30.74	UP04113G0LTR-ND◆	8,000	174.18/M
12	SS Mini 6Pin	—	UNR2210 x2	47	open	UP0421000LCT-ND◆	.59	4.43	33.20	—	—	—
	SS Mini 6Pin	—	UNR2210 x2	47	open	UP04210G0LCT-ND◆	.55	4.10	30.74	UP04210G0LTR-ND◆	8,000	174.18/M
	SS Mini 6Pin	—	UNR2111 x2	10	10	UP0421100LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 6Pin	—	UNR2210 x2	10	10	UP04211G0LCT-ND◆	.55	4.10	30.74	UP04211G0LTR-ND◆	8,000	174.19/M
	SS Mini 6Pin	—	UN2213 x2	47	47	UP0421300LCT-ND◆	.61	4.59	34.43	UP0421300LTR-ND◆	8,000	195.00/M
	SS Mini 6Pin	—	UNR2210 x2	47	47	UP04213G0LCT-ND◆	.55	4.10	30.74	UP04213G0LTR-ND◆	8,000	174.19/M
	SS Mini 6Pin	UNR2114	UNR2214	10	47	UP0421400LCT-ND◆	.59	4.43	33.20	UP0421400LTR-ND◆	8,000	188.00/M
	SS Mini 6Pin	—	UNR2210 x2	10	47	UP04214G0LCT-ND◆	.55	4.10	30.74	UP04214G0LTR-ND◆	8,000	174.19/M
10	SS Mini 6Pin	UNR2115	UNR2215	10	open	UP0421500LCT-ND◆	.59	4.43	33.20	UP0421500LTR-ND◆	8,000	188.00/M
	SS Mini 6Pin	UNR2115	UNR2215	10	open	UP04215G0LCT-ND◆	.55	4.10	30.74	UP04215G0LTR-ND◆	8,000	174.18/M
	SS Mini 6Pin	—	DRC2143T x2	4.7	open	DMC964060RCT-ND◆ ***NEW!***	.55	4.10	30.74	DMC964060RTR-ND◆ ***NEW!***	8,000	174.18/M
6	SS Mini 6Pin	UNR211N	UNR221N	4.7	47	UP0431N00LCT-ND◆	.55	4.10	30.74	UP0431N00LTR-ND◆	8,000	174.00/M
	SS Mini 6Pin	UNR211N	UNR221N	4.7	47	UP0431NG0LCT-ND◆	.55	4.10	30.74	UP0431NG0LTR-ND◆	8,000	174.18/M
14	SS Mini 6Pin	UNR2111	UNR2211	10	10	UP0431100LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 6Pin	UNR2111	UNR2211	10	10	UP04311G0LCT-ND◆	.55	4.10	30.74	UP04311G0LTR-ND◆	8,000	174.18/M
	SS Mini 6Pin	UNR2112	UNR2212	22	22	UP0431200LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 6Pin	UNR2112	UNR2212	22	22	UP04312G0LCT-ND◆	.55	4.10	30.74	UP04312G0LTR-ND◆	8,000	174.18/M
	SS Mini 6Pin	UNR2113	UNR2213	47	47	UP0431300LCT-ND◆	.59	4.43	33.20	UP0431300LTR-ND◆	8,000	188.00/M
	SS Mini 6Pin	UNR2114	UNR2214	10	47	UP0431400LCT-ND◆	.59	4.43	33.20	UP0431400LTR-ND◆	8,000	188.00/M
	SS Mini 6Pin	UNR2114	UNR2214	10	47	UP04314G0LCT-ND◆	.55	4.10	30.74	UP04314G0LTR-ND◆	8,000	174.18/M
13	SS Mini 6Pin	UN2116	UN2216	4.7	open	UP0431600LCT-ND◆	.61	4.59	34.43	UP0431600LTR-ND◆	8,000	195.00/M
14	SS Mini 6Pin	UNR2114	UNR2213	10/47	47	UP0439000LCT-ND◆	.55	4.10	30.74	—	—	—
	SS Mini 6Pin	UNR2114	UNR2213	10/47	47	UP04390G0LCT-ND◆	.55	4.10	30.74	UP04390G0LTR-ND◆	8,000	174.19/M
	SSS Mini 6Pin	UNR31A2	UNR32A2	22	22	NP043A200ACT-ND◆	.93	6.97	52.26	NP043A200ATR-ND◆	10,000	290.00/M
6	SSS Mini 6Pin	UNR31A3	UNR32A3	47	47	NP043A300ACT-ND◆	.93	6.97	52.26	NP043A300ATR-ND◆	10,000	290.00/M
15	SSS Mini 6Pin	UNR31A3 x2	—	47	47	NP061A300ACT-ND	.75	6.27	50.17	NP061A300ATR-ND	10,000	314.00/M
	SSS Mini 6Pin	UNR31A5 x2	—	10	10	NP061A500ACT-ND	.75	6.27	50.17	NP061A500ATR-ND	10,000	314.00/M
8	SSS Mini 6Pin	—	UNR32AN x2	4.7	47	NP062AN00ACT-ND◆	.93	6.97	52.26	NP062AN00ATR-ND◆	10,000	290.00/M
23	SSS Mini 6Pin	UNR31A0	UNR32A5	10/47	open	NP063D300ACT-ND◆	.93	6.97	52.26	NP063D300ATR-ND◆	10,000	290.00/M
16	SSS Mini 6Pin	UNR31A3	UNR32A3	47	47	NP0H3A300ACT-ND◆	.93	6.97	52.26	NP0H3A300ATR-ND◆	10,000	290.00/M
17	SSS Mini 6Pin	UNR31A3 x2	—	47	47	NP0J1A300ACT-ND◆	.93	6.97	52.26	—	—	—
18	SSS Mini 6Pin	UNR31AE x2	—	47/22	47/22	NP0G1AE00ACT-ND◆	.93	6.97	52.26	—	—	—
19	SSS Mini 6Pin	UNR31A0	UNR32A0	47	open	NP0G3A000ACT-ND◆	.93	6.97	52.26	NP0G3A000ATR-ND◆	10,000	290.00/M
	SSS Mini 6Pin	UNR31A3	UNR32A3	47	47	NP0G3A300ACT-ND◆	.93	6.97	52.26	NP0G3A300ATR-ND◆	10,000	290.00/M
	SSS Mini 6Pin	UNR31A3	UNR32AL	47/4.7	47/4.7	NP0G3D100ACT-ND◆	.93	6.97	52.26	NP0G3D100ATR-ND◆	10,000	290.00/M
	SSS Mini 6Pin	UNR31AT	UNR32AL	22/4.7	47/4.7	NP0G3D200ACT-ND◆	.93	6.97	52.26	—	—	—
	SSS Mini 6Pin	UNR31A3	UNR32AT	47/22	47	NP0G3D300ACT-ND◆	.93	6.97	52.26	NP0G3D300ATR-ND◆	10,000	290.00/M

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Transistor Arrays - Composite Transistors

Digi-Reel®

Dimensions in mm

Fig. 1

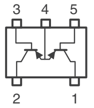

Fig. 2

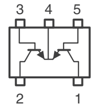

Fig. 3

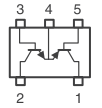

Fig. 4

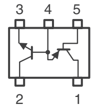

Fig. 5

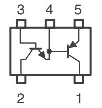

Fig. 6

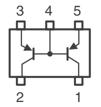

Fig. 7

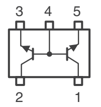

Fig. 8

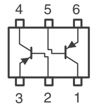

Fig. 9

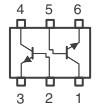

Fig. 10

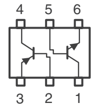

Fig. 11

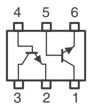

Fig. 12

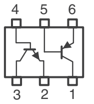

Fig. 13

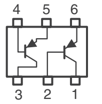

Fig. 14

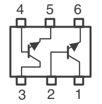

Fig. 15

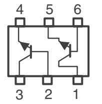

Fig. 16 ***NEW!***

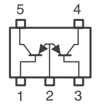

Fig. 17

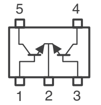

Fig. 18

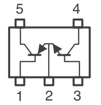

Fig. 19 ***NEW!***

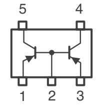

Fig. 20

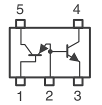

Fig. 21

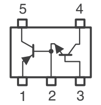

Fig. 22

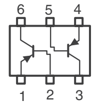

Fig. 23

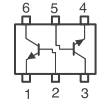

Fig. 24

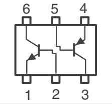

Fig. 25

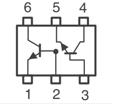

Fig. 26

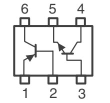

Fig. 27

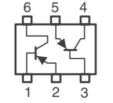

Fig. 28

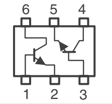

Fig. 29

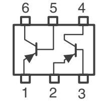

Fig. 30

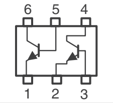

Fig. 31

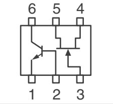

Fig. 32 ***NEW!***

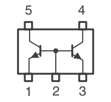

Mini Type (5-pin) EIAJ: SC-74A

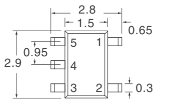

Mini Type (6-pin) EIAJ: SC-74

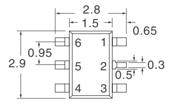

S-Mini Type (5-pin) EIAJ: SC-88A

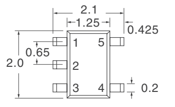

S-Mini Type (6-pin) EIAJ: SC-88

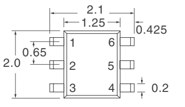

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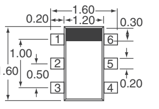

SSS-Mini Type (6-pin)

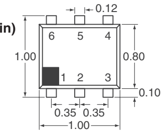

Fig.	Basic Type PNP	Basic Type NPN	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
				Mini Type 5-Pin					
1	2SB709A x2	—	XN0140100LCT-ND◆	.42	3.37	23.10	XN0140100LTR-ND◆	3,000	109.00/M
1	2SB1693 x2	—	XN0145700LCT-ND◆	.60	4.50	33.78	XN0145700LTR-ND◆	3,000	195.00/M
2	—	2SD601A x2	XN0150100LCT-ND◆	.42	3.37	23.10	XN0150100LTR-ND◆	3,000	109.00/M
2	—	2SC4561 x2	XN0150900LCT-ND	.55	4.12	30.87	XN0150900LTR-ND	3,000	178.00/M
2	—	2SC3130 x2	XN0153100LCT-ND◆	.91	6.79	50.96	XN0153100LTR-ND◆	3,000	294.00/M
3	2SB709A	2SD601A	XN0160100LCT-ND◆	.42	3.37	23.10	—	—	—
3	2SA719A	2SC1317	XN0160200LCT-ND◆	.42	3.37	25.28	—	—	—
4	2SB709A	2SD601A	XN0B30100LCT-ND◆	.42	3.47	27.74	XN0B30100LTR-ND◆	3,000	111.00/M
5	2SB709A	2SD601A	XN0C30100LCT-ND	.42	3.47	27.74	XN0C30100LTR-ND	3,000	111.00/M
6	2SB709A x2	—	XN0240100LCT-ND◆	.42	3.37	23.10	—	—	—
7	—	2SD601A x2	XN0250100LCT-ND◆	.42	3.37	23.10	XN0250100LTR-ND◆	3,000	109.00/M
16	DSA2001 x2	—	DMA201010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMA201010RTR-ND◆ ***NEW!***	3,000	101.03/M
17	—	DSC2001 x2	DMC201010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMC201010RTR-ND◆ ***NEW!***	3,000	101.03/M
18	2SB709A	2SD601A	DME201010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DME201010RTR-ND◆ ***NEW!***	3,000	101.03/M
19	DSA2001 x2	—	DMA202010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMA202010RTR-ND◆ ***NEW!***	3,000	101.03/M
32	—	DSC2001 x2	DMC202010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMC202010RTR-ND◆ ***NEW!***	3,000	101.03/M
				Mini Type 6-Pin					
8	2SB710A x2	—	XN0440200LCT-ND◆	.56	4.24	31.77	—	—	—
9	—	2SD1328 x2	XN0450400LCT-ND◆	.61	4.54	34.06	XN0450400LTR-ND◆	3,000	197.00/M
9	—	2SD0601/2SD1328	XN0450500LCT-ND◆	.48	3.61	27.05	XN0450500LTR-ND◆	3,000	156.00/M
9	—	2SD1915F x2	XN0450600LCT-ND◆	.89	6.71	50.33	XN0450600LTR-ND◆	3,000	291.00/M
10	2SB709A	2SD601A	XN0460100LCT-ND◆	.42	3.37	23.10	—	—	—
10	2SB0710A	2SD0602A	XN0460200LCT-ND◆	.66	4.96	37.23	XN0460200LTR-ND◆	3,000	215.00/M
10	2SB970	2SD1328	XN0460400LCT-ND◆	.82	6.16	46.18	—	—	—
10	2SB970	2SD601A	XN0460800LCT-ND	.50	3.71	27.85	XN0460800LTR-ND	3,000	161.00/M
10	2SB709A	2SD1328	XN0460900LCT-ND	.59	4.43	33.20	XN0460900LTR-ND	3,000	192.00/M
11	—	2SD601A x2	XN0550100LCT-ND◆	.42	3.37	23.10	XN0550100LTR-ND◆	3,000	109.00/M
11	—	2SC3130 x2	XN0553100LCT-ND	.67	5.00	37.51	—	—	—
11	—	2SD1149 x2	XN0555300LCT-ND◆	.81	6.04	45.32	XN0555300LTR-ND◆	3,000	262.00/M
12	2SB709A	2SD601A	XN0560100LCT-ND◆	.42	3.37	23.10	—	—	—
13	2SB709A x2	—	XN0640100LCT-ND◆	.42	3.37	23.10	XN0640100LTR-ND◆	3,000	109.00/M
13	2SA1022 x2	—	XN0643500LCT-ND◆	.93	6.94	52.06	XN0643500LTR-ND◆	3,000	301.00/M
14	—	2SD601A x2	XN0650100LCT-ND◆	.42	3.37	23.10	XN0650100LTR-ND◆	3,000	109.00/M
14	—	2SC2404 x2	XN0653400LCT-ND	.82	6.16	46.18	—	—	—
14	—	2SC3110 x2	XN0653700LCT-ND	.67	5.00	37.51	XN0653700LTR-ND	3,000	217.00/M
14	—	2SC3904 x2	XN0654300LCT-ND◆	.96	8.02	64.15	—	—	—
15	—	2SC3757 x2	XN0A55400LCT-ND◆	.86	6.44	48.26	XN0A55400LTR-ND◆	3,000	279.00/M
22	DSA2001 x2	—	DMA204010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMA204010RTR-ND◆ ***NEW!***	3,000	101.03/M
22	DSA2401 x2	—	DMA204A00RCT-ND◆ ***NEW!***	.60	4.52	33.93	DMA204A00RTR-ND◆ ***NEW!***	3,000	196.07/M
22	DSA2002 x2	—	DMA204020RCT-ND◆ ***NEW!***	.52	3.92	29.42	DMA204020RTR-ND◆ ***NEW!***	3,000	169.97/M
23	—	DSC2001 x2	DMC204010RCT-ND◆ ***NEW!***	.39	3.12	21.38	DMC204010RTR-ND◆ ***NEW!***	3,000	100.97/M
23	—	DSC2002 x2	DMC204020RCT-ND◆ ***NEW!***	.54	4.30	32.25	DMC204020RTR-ND◆ ***NEW!***	3,000	142.99/M
23	—	DSC2501 x2	DMC204A00RCT-ND◆ ***NEW!***	.56	4.20	31.54	DMC204A00RTR-ND◆ ***NEW!***	3,000	182.21/M
24	DSA2001	DSC2001	DMG204010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMG204010RTR-ND◆ ***NEW!***	3,000	101.03/M
26	DSA2001	DSC2001	DME205010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DME205010RTR-ND◆ ***NEW!***	3,000	101.03/M
29	DSA2001 x2	—	DMA206010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMA206010RTR-ND◆ ***NEW!***	3,000	101.03/M
30	—	DSC2G02 x2	DMC206E20RCT-ND◆ ***NEW!***	.76	5.70	42.76	DMC206E20RTR-ND◆ ***NEW!***	3,000	247.04/M
30	—	DSC2001 x2	DMC206010RCT-ND◆ ***NEW!***	.39	3.12	21.39	DMC206010RTR-ND◆ ***NEW!***	3,000	101.03/M
				S-Mini Type 5-Pin					
16	DSA2001 x2	—	DMA501010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMA501010RTR-ND◆ ***NEW!***	3,000	102.89/M
17	—	2SD1915F x2	XP0150400LCT-ND◆	.53	4.00	29.99	—	—	—
17	—	DSC2001 x2	DMC501010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMC501010RTR-ND◆ ***NEW!***	3,000	102.89/M
18	2SB709A	2SD601A	XP0160100LCT-ND◆	.40	3.22	22.06	XP0160100LTR-ND◆	3,000	104.00/M
19	DSA2001 x2	—	DMA502010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMA502010RTR-ND◆ ***NEW!***	3,000	102.89/M
20	2SB709A	2SD601A	XP0B30100LCT-ND	.42	3.53	28.21	XP0B30100LTR-ND	3,000	113.00/M
21	2SB709A	2SD601A	XP0C30100LCT-ND	.42	3.53	28.21	XP0C30100LTR-ND	3,000	113.00/M
				S-Mini Type 6-Pin					
22	2SB709A x2	—	XP0440100LCT-ND◆	.42	3.43	23.53	XP0440100LTR-ND◆	3,000	111.00/M
22	DSA2001 x2	—	DMA504010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMA504010RTR-ND◆ ***NEW!***	3,000	102.89/M
23	—	2SD601A x2	XP0450100LCT-ND◆	.40	3.22	22.06	XP0450100LTR-ND◆	3,000	104.00/M
23	—	2SD1915F x2	XP0450600LCT-ND◆	.53	4.00	29.99	XP0450600LTR-ND◆	3,000	173.00/M
24	2SB709A	2SD601A	XP0460100LCT-ND◆	.42	3.43	23.53	XP0460100LTR-ND◆	3,000	111.00/M

◆ ***RoHS Compliant***

(Continued)

Panasonic Transistor Arrays - Composite Transistors *(Cont.)*

Fig.	Basic Type		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
	PNP	NPN		1	10	100		Qty.	Pricing
24	DSA2001	DSC2001	DMG504010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMG504010RTR-ND◆ ***NEW!***	3,000	102.89/M
24	2SA1738	2SC3757	XP0465400LCT-ND◆	.72	5.39	40.40	—	—	—
25	—	2SD601A x2	XP0550100LCT-ND◆	.40	3.22	22.06	XP0550100LTR-ND◆	3,000	104.00/M
25	—	2SC3130 x2	XP0553100LCT-ND◆	.66	4.92	36.89	XP0553100LTR-ND◆	3,000	213.00/M
25	—	2SD1149 x2	XP0555300LCT-ND◆	.74	5.52	41.37	XP0555300LTR-ND◆	3,000	239.00/M
25	—	2SC3757 x2	XP0555400LCT-ND◆	.47	3.74	28.04	XP0555400LTR-ND◆	3,000	124.00/M
26	2SB709A	2SD601A	XP0560100LCT-ND	.42	3.43	23.53	XP0560100LTR-ND	3,000	111.00/M
29	2SB709A x2	—	XP0640100LCT-ND◆	.42	3.43	23.53	XP0640100LTR-ND◆	3,000	111.00/M
29	2SA1022 x2	—	XP0643500 LCT-ND◆	.93	6.94	52.06	XP0643500LTR-ND◆	3,000	301.00/M
30	—	2SD601A x2	XP0650100LCT-ND◆	.42	3.43	23.53	—	—	—
30	—	DSC2001 x2	DMC506010RCT-ND◆ ***NEW!***	.39	3.18	21.79	DMC506010RTR-ND◆ ***NEW!***	3,000	102.89/M
30	—	2SC3904 x2	XP0653400LCT-ND◆	.64	4.78	35.85	XP0653400LTR-ND◆	3,000	207.00/M
30	—	2SC3904 x2	XP0654300LCT-ND◆	1.44	11.55	86.64	XP0654300LTR-ND◆	3,000	739.00/M
SS-Mini Type 6-Pin — RoHS Compliant									
22	2SB709A x2	—	UP0440100LCT-ND	.61	4.59	34.43	UP0440100LTR-ND	8,000	195.00/M
22	DSA2001 x2	—	DMA904010RCT-ND ***NEW!***	.55	4.10	30.74	DMA904010RTR-ND ***NEW!***	8,000	174.18/M
23	—	2SD601A x2	UP0450100LCT-ND	.61	4.59	34.43	—	—	—
23	—	2SD0601A x2	UP04501G0LCT-ND	.55	4.10	30.74	UP04501G0LTR-ND	8,000	174.19/M
23	—	2SC2404 x2	UP0453400LCT-ND	.71	5.33	39.96	UP0453400LTR-ND	8,000	226.00/M
23	—	2SC2404 x2	UP04534G0LCT-ND	.71	5.33	39.96	UP04534G0LTR-ND	8,000	226.44/M
23	—	2SC1047/2SC3311A	UP0459800LCT-ND	.48	3.63	27.23	UP0459800LTR-ND	8,000	154.00/M
23	—	2SC3354/2SC3311A	UP0459900LCT-ND	.48	3.63	27.23	UP0459900LTR-ND	8,000	154.00/M
24	2SB709A	2SD601A	UP0460100LCT-ND	.61	4.59	34.43	—	—	—
31	—	2SC3931/CCD	UP05C8B00LCT-ND	.80	5.98	44.82	UP05C8B00LTR-ND	8,000	254.00/M
31	—	2SC3931/CCD	UP05C8BG0LCT-ND	.80	5.98	44.81	UP05C8BG0LTR-ND	8,000	253.95/M
31	—	2SC3932/CCD	UP05C8GG0LCT-ND	.71	5.33	39.96	UP05C8GG0LTR-ND	8,000	226.44/M
31	—	2SC3932G/CCD	UP05C8PG0LCT-ND	.71	5.33	39.96	UP05C8PG0LTR-ND	8,000	226.44/M
SSS-Mini Type 6-Pin — RoHS Compliant									
23	—	2SD0601A x2	NP0450100ACT-ND	.42	3.37	25.28	NP0450100ATR-ND	10,000	105.00/M
27	2SA2082 x2	—	NP0A45600ACT-ND	.93	6.97	52.26	—	—	—
28	—	2SC5829 x2	NP0A54700ACT-ND	.64	4.83	36.20	NP0A54700ATR-ND	10,000	201.00/M

◆ ***RoHS Compliant***

Variable Capacitance Diodes - Silicon Epitaxial Planar Type

Dimensions in mm

Package	Application	VR (V)	IR (nA)	CD @ 1MHz		CD @ 1MHz		RD @ 470MHz Ω (max.)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				@ VR	pF (max.)	@ VR	pF (max.)			1	10	100		Qty.	Pricing
SS-Mini 2P	VCO	30	28	1	29.8	4	8.3	1.0†	MA2S30400LCT-ND◆	.46	3.66	27.44	—	—	—
	CATV Tuner	34	30	2	34.3	10	8.32	.54	MA2S35700LCT-ND◆	.43	3.42	25.67	—	—	—
	UHF/VHF Tuner	32	30	2	15.47	10	6.13	.45	MA2S37200LCT-ND	.46	3.84	30.69	—	—	—
	CATV Tuner	34	30	2	50.79	10	13.08	.90	MA2S37400LCT-ND◆	.48	3.84	28.77	—	—	—
	VCO/TCXO	12	12	2	3.4	10	1.5	.60	MA2S37700LCT-ND◆	.44	3.54	26.56	—	—	—
	VCO/UHF	6	10	1	16	3	8.9	.30	MA2S37600LCT-ND◆	.40	3.22	22.06	—	—	—
	VCO	6	10	1	20.0	4	9.0	.30	MA2SV0200LCT-ND◆	.43	3.39	23.89	—	—	—
	VCO	6	10	1	11.1	3	6.4	.35	MA2SV0400LCT-ND◆	.41	3.21	22.59	—	—	—
	VCO	6	10	1	16.4	3	9.2	.35	MA2SV0900LCT-ND◆	.44	3.40	23.95	MA2SV0900LTR-ND◆	3,000	98.00/M
	VCO	6	10	1	5.80	4	2.58	.3	MA2SV0300LCT-ND◆	.40	3.15	22.18	—	—	—
	VCO	6	10	0.5	7.91	2.5	3.23	.45	MA2SV1500LCT-ND◆	.40	3.15	22.18	MA2SV1500LTR-ND◆	3,000	91.00/M
SSS-Mini 2P	VCO	6	6	1	17	3	7	1.0	MA27V0100LCT-ND◆	.50	4.01	30.10	MA27V0100LTR-ND◆	10,000	125.00/M
	VCO	6	5	1	20	4	9	.30	MA27V0200LCT-ND◆	.53	4.25	31.87	MA27V0200LTR-ND◆	10,000	133.00/M
	VCO	6	5	1	5.8	4	2.58	.30	MA27V0300LCT-ND◆	.46	3.66	27.44	MA27V0300LTR-ND◆	10,000	114.00/M
	VCO	6	5	1	11.1	3	6.4	.35	MA27V0400LCT-ND	.46	3.66	27.44	—	—	—
	VCO	10	10	1	20.5	4	4.1	.65	MA27V0500LCT-ND◆	.51	4.07	30.54	MA27V0500LTR-ND◆	10,000	127.00/M
	VCO	6	5	1	16.4	3	9.2	.35	MA27V0900LCT-ND	.54	4.31	32.31	MA27V0900LTR-ND	10,000	135.00/M
	VCO	8	5	1	3.9	4	2.14	.35	MA27V1200LCT-ND	.55	4.43	33.20	—	—	—
	VCO	60	5	0.5	7.91	2.5	3.23	.45	MA27V1500LCT-ND◆	.58	4.60	34.52	—	—	—
	VCO	6	10	1	19.5	3	9.9	.35	MA27V2000LCT-ND◆	.40	3.22	22.06	MA27V2000LTR-ND◆	10,000	92.00/M
	VCO	6	10	1	19.13	4	7.6	.30	MA27V2200LCT-ND◆	.40	3.22	22.06	MA27V2200LTR-ND◆	10,000	92.00/M
	VCO	6	10	1	2.46	4	1.1	.35	MA27V2300LCT-ND◆	.40	3.22	22.06	MA27V2300LTR-ND◆	10,000	92.00/M
	VCO/UHF	6	6	1	16	3	8.9	.30	MA2737600LCT-ND	.46	3.66	27.44	—	—	—
1006 Leadless	VCO	6	10	1	17	3	7	1.0	MA26V0100ACT-ND◆	.43	3.60	28.80	MA26V0100ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	20	4	8.6	.30	MA26V0200ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO	6	10	1	5.8	4	2.58	.30	MA26V0300ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO	6	10	1	11.1	3	6.4	.35	MA26V0400ACT-ND◆	.43	3.60	28.80	MA26V0400ATR-ND◆	10,000	101.00/M
	VCO	10	10	1	20.5	4	4.1	.65	MA26V0500ACT-ND◆	.42	3.37	25.28	—	—	—
	VCO	6	10	1	3.12	3	1.62	.35	MA26V0700ACT-ND◆	.43	3.60	28.80	MA26V0700ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	16.4	3	9.2	.35	MA26V0900ACT-ND◆	.43	3.60	28.80	MA26V0900ATR-ND◆	10,000	101.00/M
	VCO	8	10	1	3.01	4	1.34	.35	MA26V1100ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO	6	10	0.5	7.91	2.5	3.23	.45	MA26V1500ACT-ND◆	.43	3.60	28.80	MA26V1500ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	18.95	3	8.37	.30	MA26V1600ACT-ND◆	.45	3.75	30.03	MA26V1600ATR-ND◆	10,000	105.00/M
	VCO	6	10	1	19.5	3	9.9	.35	MA26V2000ACT-ND◆	.43	3.60	28.80	MA26V2000ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	19.13	4	7.6	.30	MA26V2200ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO/UHF	6	10	1	16	3	8.9	.30	MA2637600ACT-ND◆	.43	3.60	28.80	MA2637600ATR-ND◆	10,000	101.00/M

† @100MHz ◆ ***RoHS Compliant***

SS-Mini (2-pin)

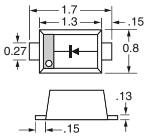

SSS-Mini (2-pin)

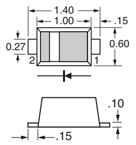

1006 Leadless

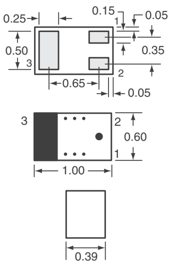

PNP Transistors with Diode Protection

Dimensions in mm

Mini Type (6-pin)

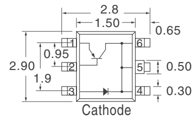

1: Emitter
2: Base
3: Anode
4: Collector
5: Collector
6: Collector

S-Mini Type (6-pin)

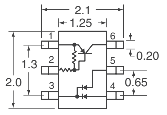

1: Emitter(Tr)
2: Base(Tr)
3: Cathode(Di)
4: Anode1(Di)
5: Anode2(Di)
6: Collector(Tr)

SS-Mini (5-pin)

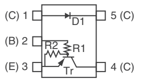

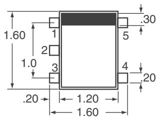

Application	Package	VCEO (V)	IC (A)	Diode		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				VF (V)	IF (A)		1	10	100		Qty.	Pricing
DC-DC Converter	Mini 6P	15	2.5	.45	1.0	XN09D5700LCT-ND	.94	7.08	53.12	—	—	—
	Mini 6P	15	2.5	.45	0.7	XN09D5800LCT-ND	.93	6.95	52.12	XN09D5800LTR-ND	3,000	301.00/M
	Mini 6P	15	1.5	.45	0.7	XN09D6100LCT-ND	.90	6.73	50.46	XN09D6100LTR-ND	3,000	292.00/M
	S-Mini 6P	50	0.1	1.2	0.1	XP0NG8A00LCT-ND◆	.51	4.04	30.34	XP0NG8A00LTR-ND◆	3,000	134.00/M
High Speed Switching	SS-Mini 5P	50	.08	.50	0.2	UP0KG8D00LCT-ND◆	.48	3.85	28.85	UP0KG8D00LTR-ND◆	8,000	123.00/M

◆ ***RoHS Compliant***

Panasonic Transistors and MOSFETs

Dimensions in mm

TO-126

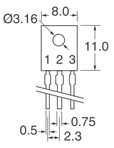

1. Emitter
2. Collector
3. Base

TO-220F
EIAJ:SC-67

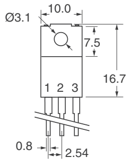

1. Base
2. Collector
3. Emitter

TO-220D

Transistors
1. Base
2. Collector
3. Emitter

Mosfets
1. Gate
2. Drain
3. Source

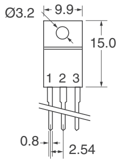

MT-4

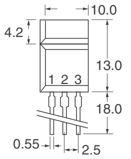

1. Base
2. Collector
3. Emitter

TO-92L

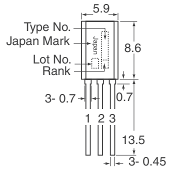

1. Emitter
2. Collector
3. Base

TO-92NL

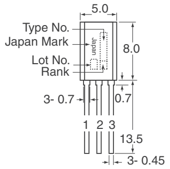

1. Emitter
2. Collector
3. Base

TO-92B1

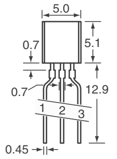

1. Emitter
2. Collector
3. Base

MT-1 Type

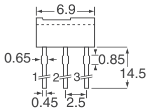

1. Emitter
2. Collector
3. Base

MT-2 Type

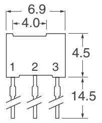

1. Emitter
2. Collector
3. Base

MT-3 Type

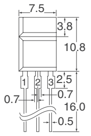

1. Emitter
2. Collector
3. Base

NEW S Type
NS-B1

Transistors
1. Emitter
2. Collector
3. Base

Mosfets
1. Source
2. Gate
3. Drain

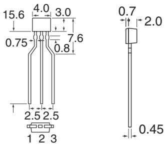

TOP-3F

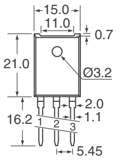

1. Base
2. Collector
3. Emitter

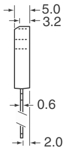

Transistors

Application	Package	V_{CEO} (V)	IC (A)	h_{FE} Minimum	h_{FE} Maximum	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Digi-Key Part No.	Tape and Box Qty.	Tape and Box Pricing
PNP Type												
AF Power Amp	TO-126	60	2	80	220	2SA1096AQ-ND	1.10	9.20	73.56	—	—	—
AF Output Driver	TO-126	100	.5	130	220	2SA07940R-ND◆	.95	7.10	53.28	—	—	—
AF Output Driver	TO-126	50	2	80	160	2SA10960Q-ND	1.10	9.20	73.56	—	—	—
AF Output Driver	TO-126	50	2	120	220	2SA10960R-ND	1.10	9.20	73.56	—	—	—
AF Amp	TO-126	400	.1	30	—	2SB1011-ND◆	.95	7.15	53.63	—	—	—
AF Driver	TO-220F	180	1	90	330	2SA1535AR-ND	1.16	9.67	77.38	—	—	—
Power Amp	TO-220F	60	4	120	250	2SB09420P-ND◆	1.42	11.34	85.04	—	—	—
Power Amp	TO-220F	80	4	120	250	2SB0942AP-ND◆	1.42	11.34	85.04	—	—	—
Power Switching	TO-220F	80	4	130	260	2SB09440P-ND◆	2.41	19.31	150.15	—	—	—
Power Switching	TO-220F	80	5	90	180	2SB09450Q-ND◆	2.22	17.77	133.30	—	—	—
Low Voltage Switch	TO-220F	40	10	130	260	2SB0947AP-ND◆	3.45	27.58	214.51	—	—	—
Low Voltage Switch	TO-220F	20	10	130	260	2SB09480P-ND◆	2.37	19.00	142.49	—	—	—
Low Voltage Switch	TO-220F	40	10	130	260	2SB0948AP-ND◆	2.37	19.00	142.49	—	—	—
Power Amp	TO-220F	60	2	2,000	5,000	2SB09490Q-ND§◆	1.07	8.91	71.28	—	—	—
Power Amp/Switching	TO-220F	80	2	1,000	10,000	2SB0949AQ-ND◆	1.16	9.62	77.00	—	—	—
Low Voltage Switch	TO-220F	40	7	90	180	2SB0953AQ-ND◆	1.99	15.93	119.51	—	—	—
Power Amp	TO-220F	100	5	5,000	15,000	2SB12520Q-ND◆	1.72	13.79	103.42	—	—	—
Power Amp	TO-220F	60	3	400	700	2SB12990P-ND◆	1.49	11.95	89.63	—	—	—
Power Amp	TO-220D	80	4	4,000	10,000	2SB1623AP-ND◆	2.41	19.31	150.15	—	—	—
Power Amp	MT-4	60	3	160	320	2SA20670PACT-ND†	1.06	8.85	70.82	2SA20670PATB-ND	1,000	471.00
Power Amp	MT-4	60	3	120	250	2SA20670QACT-ND†	1.06	8.85	70.82	2SA20670QATB-ND	1,000	471.00
Power Amp	MT-4	80	3	70	250	2SB1417APACT-ND†	1.15	9.62	76.98	2SB1417APATB-ND	1,000	512.00
Power Amp	MT-4	80	2	4,000	10,000	2SB1418APACT-ND†§◆	1.25	10.40	83.16	—	—	—
Power Amp	MT-4	80	2	1,000	10,000	2SB1418AQACT-ND†◆	1.35	11.23	89.81	2SB1418AQATB-ND◆	1,000	597.00
AF Output Amp	TO-92L	25	1	120	240	2SA06830R-ND	.53	4.27	32.03	—	—	—
AF Output Amp	TO-92L	80	.5	90	155	2SA07770Q-ND◆	.93	6.97	52.26	—	—	—
General Amp	TO-92L	200	.07	60	150	2SA08790Q-ND	.93	7.73	61.86	—	—	—
AF Amp	TO-92L	20	5	120	205	2SB08730Q-ND	.98	7.38	55.33	—	—	—
AF Amp	TO-92L	20	5	180	625	2SB08730R-ND◆	.98	7.38	55.33	—	—	—
AF Output Amp	TO-92NL	50	1	120	240	2SA1534ARACT-ND†	.59	4.74	35.58	—	—	—
AF Output Amp	TO-92NL	50	.5	120	240	2SA1619ARACT-ND†	.54	4.31	32.31	—	—	—
General Amp	TO-92NL	200	.07	60	150	2SB12210QACT-ND†	.93	7.71	61.67	—	—	—
AF Output Amp	TO-92B1	50	.5	120	240	2SA07200RACT-ND†◆	.54	4.29	32.18	—	—	—
AF Output Amp	TO-92B1	70	.5	120	240	2SA0720ARACT-ND†◆	.55	4.14	31.03	—	—	—
General Amp	TO-92B1	200	.07	100	220	2SA10180RACT-ND†◆	.73	5.47	41.02	—	—	—
AF HV Amp	TO-92B1	150	.05	130	220	2SA11230RACT-ND†◆	.64	4.78	35.85	2SA11230RATB-ND◆	3,000	207.00/M
AF Low Noise Amp	TO-92B1	55	.1	180	360	2SA11270RACT-ND†◆	.41	3.25	24.36	2SA11270RATB-ND◆	3,000	108.00/M
General Amp	TO-92B1	300	.07	60	150	2SA17670QACT-ND†◆	.58	4.32	32.41	2SA17670QATB-ND◆	3,000	187.00/M
AF Output Amp	TO-92B1	25	1	120	240	2SB06210RACT-ND†◆	.51	3.82	28.61	2SB06210RATB-ND◆	3,000	165.00/M
AF Output Amp	TO-92B1	50	1	120	240	2SB0621ARACT-ND†◆	.51	3.82	28.61	2SB0621ARATB-ND◆	3,000	165.00/M
General Amp	TO-92B1	25	.1	210	340	2SB07740RACT-ND†◆	.52	4.17	31.26	2SB07740RATB-ND◆	3,000	139.00/M
General Amp	MT-1	50	.1	160	460	2SB1320A0ACT-ND†	.41	3.19	22.45	2SB1320A0ATB-ND	2,000	97.00/M
Low Freq. Amp	MT-1	50	.5	85	340	2SB1321A0ACT-ND†	.46	3.69	27.68	2SB1321A0ATB-ND	2,000	129.00/M
Low Freq. Output Amp	MT-2	80	1	170	340	2SA16740SACT-ND†	.64	4.81	36.09	2SA16740SATB-ND	2,000	213.00/M

§ Darlington † Cut Tape ◆ ***RoHS Compliant***

(Continued)

Panasonic® Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	IC (A)	h_{FE}		Digi-Key	Pricing			Digi-Key	Tape and Box	
				Minimum	Maximum	Part No.	1	10	100	Part No.	Qty.	Pricing
Low Freq. Amp	MT-2	50	1	85	340	2SB1322A0ACT-ND†	.59	4.40	32.98	2SB1322A0ATB-ND	2,000	195.00/M
Low Freq. Amp	MT-2	25	5	90	135	2SB13980PACT-ND†	.82	6.85	54.78	2SB13980PATB-ND	2,000	364.00/M
Low Freq. Amp	MT-2	25	5	120	205	2SB13980QACT-ND†◆	.82	6.85	54.78	2SB13980QATB-ND◆	2,000	364.00/M
AF Output Amp	MT-2	100	2	120	240	2SB14380RACT-ND†◆	.96	7.97	63.74	2SB14380RATB-ND◆	2,000	424.00/M
Low Freq. Output Amp	MT-2	50	5	120	240	2SB14460RACT-ND†◆	.92	6.93	51.95	2SB14460RATB-ND◆	2,000	307.00/M
Power Switching	MT-2	400	.5	80	160	2SB14880PACT-ND†	.85	6.35	47.64	2SB14880PATB-ND	2,000	282.00/M
AF High Power Drive	MT-3	150	1	130	220	2SB14140RACT-ND†◆	.97	8.08	64.66	2SB14140RATB-ND◆	1,000	430.00
Low Freq. Power Amp	MT-3	60	3	120	250	2SB14160RACT-ND†	.83	6.90	55.18	2SB14160RATB-ND	1,000	367.00
AF Output Amp	MT-3	50	2	120	240	2SB14350RACT-ND†◆	.79	6.55	52.40	2SB14350RATB-ND◆	1,000	348.00
Power Switching	MT-3	50	8	2,000	5,000	2SB15040QACT-ND†	1.43	11.46	85.94	2SB15040QATB-ND	1,000	745.00
Power Switching	MT-3	50	8	4,000	10,000	2SB15040RACT-ND†	1.43	11.46	85.94	2SB15040RATB-ND	1,000	745.00
Low Freq. Amp	NEW S Type	50	.1	160	460	2SA1309A0ACT-ND†	.33	2.58	18.18	—	—	—
Low Freq. Amp	NEW S Type	50	.5	85	340	2SB1030ACT-ND†	.47	3.92	31.36	2SB1030ATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	50	.1	160	260	2SA1309AQACT-ND†	.41	3.10	21.49	2SA1309AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	210	340	2SA1309ARACT-ND†	.41	3.10	21.49	—	—	—
Low Freq. Amp	NEW S Type	50	.1	290	460	2SA1309ASACT-ND†	.41	3.10	21.49	2SA1309ASATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.5	120	240	2SB1030ARACT-ND†◆	.50	4.21	33.66	—	—	—
High Power Amp	TOP-3F	100	5	100	200	2SB10540P-ND◆	2.76	22.06	171.61	—	—	—
Power Switching	TOP-3F	80	10	90	180	2SB11540Q-ND◆	3.62	28.96	225.23	—	—	—
NPN Type												
Med. Power Amp	TO-126	18	1	90	280	2SC15680R-ND	.91	6.81	51.10	—	—	—
AF Power Pre-Amp	TO-126	150	.05	130	330	2SC19530S-ND	1.24	10.32	82.54	—	—	—
TV Video Out Amp	TO-126	250	.1	40	—	2SC2258-ND	.77	5.77	43.30	—	—	—
AF Power Amp	TO-126	120	.5	90	220	2SC25900Q-ND	.83	6.19	46.43	—	—	—
Video Amp	TO-126	50	.15	20	—	2SC3611-ND◆	.64	4.81	36.09	—	—	—
AF Output Driver	TO-126	100	.5	185	330	2SC15670S-ND◆	.70	5.27	39.51	—	—	—
AF Output Driver	TO-126	50	1.5	80	160	2SC24970Q-ND	1.23	10.26	82.11	—	—	—
Audio Output	TO-126	300	.1	50	250	2SC3063-ND◆	.66	4.97	37.31	—	—	—
AF Amp	TO-126	50	1	8,000	20,000	2SD0946AR-ND§◆	.82	6.83	54.65	—	—	—
AF Amp	TO-126	100	2	8,000	20,000	2SD16400R-ND§◆	.97	7.27	54.50	—	—	—
AF Amp	TO-126	60	1	—	—	2SD16450R-ND§	.89	7.42	59.33	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3743-ND◆	2.11	16.85	126.41	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3979-ND◆	2.30	18.39	137.90	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3979A-ND◆	2.37	19.00	142.49	—	—	—
Power Amp	TO-220F	300	.75	70	150	2SD1263AQ-ND◆	1.46	11.64	87.33	—	—	—
Power Amp	TO-220F	60	3	120	250	2SD12660P-ND◆	1.01	8.43	67.42	—	—	—
Power Amp	TO-220F	60	4	120	250	2SD12670P-ND◆	1.25	10.40	83.16	—	—	—
Power Switching	TO-220F	80	3	130	260	2SD12680P-ND◆	1.38	11.49	91.93	—	—	—
Power Switching	TO-220F	80	4	130	260	2SD12690P-ND◆	2.30	18.39	137.90	—	—	—
Power Switching	TO-220F	80	5	130	260	2SD12700P-ND◆	2.34	18.69	140.19	—	—	—
Power Amp	TO-220F	150	1	800	2,000	2SD12720P-ND◆	2.30	18.39	137.90	—	—	—
Power Amp	TO-220F	60	2	4,000	10,000	2SD12750P-ND§◆	1.00	8.32	66.53	—	—	—
Power Amp	TO-220F	80	2	1,000	10,000	2SD1275AP-ND§◆	1.08	8.98	71.90	—	—	—
Power Amp	TO-220F	80	4	1,000	10,000	2SD1276AP-ND§◆	1.28	10.64	85.12	—	—	—
Power Amp	TO-220F	400	7	200	—	2SD1535-ND§◆	2.41	19.31	150.15	—	—	—
Power Switching	TO-220F	100	5	5,000	15,000	2SD16330P-ND§◆	1.88	15.02	112.62	—	—	—
Power Switching	TO-220F	60	4	70	250	2SD20000P-ND◆	.89	7.42	59.33	—	—	—
High Speed Switch	TO-220D	400	3	10	—	2SC4953-ND◆	1.28	10.26	76.98	—	—	—
Power Amp	TO-220D	60	3	500	1,500	2SC59540Q-ND◆	1.03	8.62	68.95	—	—	—
General Amp	TO-220D	80	3	70	250	2SD2374AP-ND◆	.77	6.42	51.30	—	—	—
High Gain	TO-220D	60	5	500	2,000	2SD2528-ND	1.28	10.26	76.98	—	—	—
Power Amp	MT-4	60	3	160	320	2SC57880PACT-ND†◆	.97	8.12	64.92	2SC57880PATB-ND◆	1,000	432.00
Power Amp	MT-4	60	3	120	250	2SC57880QACT-ND†	.97	8.12	64.92	2SC57880QATB-ND	1,000	432.00
Power Amp	MT-4	80	3	70	2,500	2SD2137APACT-ND†	1.08	8.98	71.86	—	—	—
Power Amp	MT-4	80	2	1,000	10,000	2SD2138AQACT-ND†	1.35	11.23	89.81	2SD2138AQATB-ND	1,000	597.00
Power Amp	MT-4	80	2	2,000	5,000	2SD2138APACT-ND†§◆	1.25	10.40	83.16	2SD2138APATB-ND§◆	1,000	553.00
High DC Current Gain	MT-4	60	3	500	2,500	2SD21390PACT-ND†	1.15	9.62	76.99	2SD21390PATB-ND	1,000	512.00
Power Amp	MT-4	60	4	4,000	10,000	2SD22420PACT-ND†§◆	1.76	14.10	105.72	—	—	—
AF Amp	TO-92L	25	1	120	240	2SC13830R-ND◆	.57	4.55	34.13	—	—	—
AF Amp	TO-92L	25	1	170	340	2SC13830S-ND	.57	4.55	34.13	—	—	—
AF Amp	TO-92L	50	1	120	120	2SC13840R-ND◆	.57	4.55	34.15	—	—	—
AF Output Amp	TO-92L	80	.5	130	220	2SC15090R-ND	.71	5.34	40.07	—	—	—
AF Output Amp	TO-92L	80	.5	185	330	2SC15090S-ND	.71	5.34	40.07	—	—	—
AF Output Amp	TO-92L	20	1	130	220	2SC15180R-ND	.98	7.35	55.12	—	—	—
General Amp	TO-92L	200	.07	60	150	2SC15730Q-ND	.62	4.63	34.71	—	—	—
General Amp	TO-92L	200	.07	100	220	2SC15730R-ND	.62	4.63	34.71	—	—	—
General Amp	TO-92L	300	.07	60	150	2SC1573AQ-ND	.52	3.92	29.37	—	—	—
General Amp	TO-92L	300	.07	100	220	2SC1573AR-ND◆	.52	3.92	29.37	—	—	—
General Amp	TO-92L	400	.07	60	150	2SC1573BQ-ND	.52	3.92	29.37	—	—	—
General Amp	TO-92L	400	.07	100	220	2SC1573BR-ND	.52	3.92	29.37	—	—	—
AF HV Amp	TO-92L	150	.05	130	220	2SC26320R-ND	.66	4.96	37.18	—	—	—
Video Amp	TO-92L	50	.15	20	—	2SC3526H-ND◆	1.53	12.26	91.93	—	—	—
AF Output Amp	TO-92L	20	5	230	380	2SD09660Q-ND◆	1.00	7.53	56.47	—	—	—

§ Darlington † Cut Tape ◆ ***RoHS Compliant***

(Continued)

Panasonic Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	IC (A)	hFE Minimum	hFE Maximum	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Digi-Key Part No.	Tape and Box Qty.	Tape and Box Pricing
AF Output Amp	TO-92NL	80	.5	130	220	2SC39390RACT-ND†◆	.57	4.30	32.25	—	—	—
AF Output Amp	TO-92NL	80	.5	185	330	2SC39390SACT-ND†	.57	4.30	32.25	2SC39390SATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	25	1	120	240	2SC39400RACT-ND†	.54	4.34	32.57	—	—	—
AF Output Amp	TO-92NL	50	1	85	170	2SC3940AQACT-ND†	.59	4.69	35.18	—	—	—
AF Output Amp	TO-92NL	50	1	120	240	2SC3940ARACT-ND†	.59	4.69	35.18	2SC3940ARATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1	170	340	2SC3940ASACT-ND†	.59	4.69	35.18	—	—	—
General Amp	TO-92NL	300	.07	60	150	2SC39410QACT-ND†	.49	3.65	27.38	2SC39410QATB-ND	3,000	158.00/M
General Amp	TO-92NL	300	.07	100	220	2SC39410RACT-ND†	.49	3.65	27.38	—	—	—
AF Output Amp	TO-92NL	50	.5	120	240	2SC4208ARACT-ND†	.54	4.35	32.59	2SC4208ARATB-ND	3,000	144.00/M
General Amp	TO-92B1	200	.07	100	220	2SC14730RACT-ND†◆	.71	5.33	39.99	2SC14730RATB-ND◆	3,000	231.00/M
AF HV Amp	TO-92B1	150	.05	130	220	2SC26310RACT-ND†◆	.49	3.92	29.42	2SC26310RATB-ND◆	3,000	130.00/M
AF Amp	TO-92B1	50	.7	600	1,200	2SC29250SACT-ND†◆	.63	4.69	35.16	—	—	—
AF Output Amp	TO-92B1	25	1	120	240	2SD05920RACT-ND†◆	.50	3.77	28.27	2SD05920RATB-ND◆	3,000	163.00/M
AF Output Amp	TO-92B1	50	1	120	240	2SD0592ARACT-ND†◆	.50	3.77	28.27	—	—	—
AF Output Amp	TO-92B1	20	.5	200	350	2SD13020RACT-ND†◆	.46	3.68	27.58	2SD13020RATB-ND◆	3,000	122.00/M
General Amp	MT-1	50	.1	160	460	2SD1991A0ACT-ND†	.36	2.80	19.69	2SD1991A0ATB-ND	2,000	85.00/M
General Amp	MT-1	50	.5	210	340	2SD1991ARACT-ND†	.36	2.80	19.69	2SD1991ARATB-ND	2,000	85.00/M
Low Freq. Amp	MT-1	20	.5	200	350	2SD19960RACT-ND†	.58	4.62	34.66	2SD19960RATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	.5	300	500	2SD19960SACT-ND†	.58	4.62	34.66	2SD19960SATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	.5	400	800	2SD19960TACT-ND†	.58	4.62	34.66	2SD19960TATB-ND	2,000	162.00/M
AF Output Amp	MT-2	80	1	120	240	2SC43910RACT-ND†◆	.50	3.73	27.99	—	—	—
General Amp	MT-2	300	.07	100	220	2SC54190RACT-ND†◆	.68	5.10	38.27	2SC54190RATB-ND◆	2,000	226.00/M
Low Freq. Amp	MT-2	50	1	120	240	2SD1994ARACT-ND†◆	.56	4.49	33.64	2SD1994ARATB-ND◆	2,000	157.00/M
Low Freq. Amp	MT-2	50	1	170	340	2SD1994ASACT-ND†◆	.56	4.49	33.64	2SD1994ASATB-ND◆	2,000	157.00/M
AF Output Amp	MT-2	100	2	8,000	20,000	2SD20670RACT-ND†◆	.80	6.70	53.63	2SD20670RATB-ND◆	2,000	357.00/M
Low Freq. Amp	MT-2	50	2	120	340	2SD217700ACT-ND†	.93	7.00	52.54	—	—	—
Low Freq. Amp	MT-2	60	2	120	340	2SD2177A0ACT-ND†	.93	7.00	52.54	2SD2177A0ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	50	.1	170	340	2SD21770SACT-ND†	.89	6.70	50.28	2SD21770SATB-ND	2,000	297.00/M
AF Output Amp	MT-2	50	5	120	240	2SD21790RACT-ND†◆	.87	7.24	57.92	2SD21790RATB-ND◆	2,000	385.00/M
AF Output Amp	MT-2	150	1	120	240	2SD21840RACT-ND†◆	.81	6.74	53.93	2SD21840RATB-ND◆	2,000	359.00/M
AF Amp	MT-2	120	.5	130	220	2SD22250RACT-ND†◆	.68	5.10	38.27	—	—	—
AF Power Amp	MT-2	20	5	340	600	2SD22490RACT-ND†◆	.62	4.62	34.63	2SD22490RATB-ND◆	2,000	205.00/M
AF Amp	MT-2	50	1	8,000	20,000	2SD22580RACT-ND†◆	.56	4.23	31.72	2SD22580RATB-ND◆	2,000	187.00/M
AF Output Amp	MT-2	20	.7	1,000	2,500	2SD225900ACT-ND†◆	.51	3.82	28.61	2SD225900ATB-ND◆	2,000	169.00/M
AF Amp	MT-2	10	1	200	800	2SD235800ACT-ND†◆	.80	5.98	44.82	2SD235800ATB-ND◆	2,000	265.00/M
AF Amp	MT-2	50	.5	8,000	20,000	2SD25980RACT-ND†	.56	4.51	33.86	—	—	—
AF Output Amp	MT-3	50	1	120	240	2SD21330RACT-ND†	.72	5.39	40.40	2SD21330RATB-ND	1,000	239.00
AF Output Amp	MT-3	50	1	170	340	2SD21330SACT-ND†	.72	5.39	40.40	2SD21330SATB-ND	1,000	239.00
AF High Power Driver	MT-3	150	1	130	220	2SD21340RACT-ND†	.82	6.82	54.56	2SD21340RATB-ND	1,000	363.00
Power Amp	MT-3	60	3	70	150	2SD21360QACT-ND†	.99	7.39	55.44	2SD21360QATB-ND	1,000	328.00
Power Amp	MT-3	60	3	120	250	2SD21360RACT-ND†◆	.74	6.16	49.28	2SD21360RATB-ND◆	1,000	328.00
AF Output Amp	MT-3	50	2	120	240	2SD21780RACT-ND†	.83	6.24	46.78	—	—	—
AF Output Amp	MT-3	50	2	170	340	2SD21780SACT-ND†	.83	6.24	46.78	2SD21780SATB-ND	1,000	277.00
AF Amp	MT-3	80	1	8,000	20,000	2SD22200RACT-ND†◆	.77	6.41	51.32	2SD22200RATB-ND◆	1,000	341.00
AF Amp	MT-3	100	2	8,000	20,000	2SD24790RACT-ND†	.96	8.02	64.15	2SD24790RATB-ND	1,000	427.00
Power Amp	MT-3	60	3	800	1,500	2SD25730QACT-ND†◆	.92	7.70	61.59	2SD25730QATB-ND◆	1,000	410.00
Low Freq. Amp	NEW S Type	50	.1	160	460	2SC3311A0ACT-ND†	.33	2.58	18.18	2SC3311A0ATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.5	85	340	2SD1423ACT-ND†	.48	3.98	31.81	2SD1423ATB-ND	5,000	119.00/M
Low Freq. Amp	NEW S Type	20	.5	200	800	2SD145000ACT-ND†	.42	3.37	25.25	2SD145000ATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	50	.1	160	260	2SC3311AQACT-ND†	.41	3.10	21.49	2SC3311AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	210	340	2SC3311ARACT-ND†◆	.41	3.10	21.49	—	—	—
Low Freq. Amp	NEW S Type	50	.1	290	460	2SC3311ASACT-ND†◆	.41	3.10	21.49	2SC3311ASATB-ND◆	5,000	70.00/M
Low Freq. Amp	NEW S Type	20	.5	200	350	2SD14500RACT-ND†	.50	4.21	33.66	2SD14500RATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	.5	300	500	2SD14500SACT-ND†	.50	4.21	33.66	2SD14500SATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	.5	400	800	2SD14500TACT-ND†	.50	4.21	33.66	2SD14500TATB-ND	5,000	107.00/M
AF Amp	NS-B1	55	.1	180	360	2SC33120RACT-ND†◆	.43	3.60	28.80	2SC33120RATB-ND◆	5,000	108.00/M
HV High Speed Switch	TOP-3F	800	3	6	—	2SC4420-ND◆	2.52	20.13	156.59	—	—	—
HV High Speed Switch	TOP-3F	800	1	3	—	2SC4960-ND◆	2.41	19.31	150.15	—	—	—
High Power Amp	TOP-3F	100	5	100	200	2SD14850P-ND◆	2.59	20.68	160.88	—	—	—
Power Switching	TOP-3F	80	10	130	260	2SD17050P-ND◆	3.96	31.72	246.68	—	—	—
High Power Amp	TOP-3F	120	6	80	160	2SD20640S-ND◆	3.69	29.51	229.52	—	—	—

§ Darlington † Cut Tape ◆ ***RoHS Compliant***

Power MOSFETs

Package	V_{DSS} (V)	V_{GSS} (V)	I_D (A)	R_{DS} (on) Type (Ω)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Pricing 1,000
					N-Channel Type					
TO-220D	450	30	5	1.0	2SK3043-ND◆	1.83	14.63	109.70	493.65	950.73
	450	30	7	.56	2SK3044-ND	2.47	19.73	147.97	665.86	1282.40
	500	30	2.5	3.2	2SK3045-ND	1.54	12.32	92.38	415.71	800.62
	500	30	7	0.7	2SK3046-ND	2.41	19.25	144.34	649.53	1250.95
	600	30	3	1.7	2SK3048-ND◆	1.80	14.37	107.78	484.99	934.05
	200	30	22	.048	2SK3892-ND◆	4.48	35.85	278.86	1294.70	2539.60
					P-Channel Type — RoHS Compliant					
NS-B1	65‡	—	.02	300	2SJ01640RACT-ND†	.45	3.62	27.12	75.03	126.56
	65‡	—	.02	300	2SJ01640RATB-ND§			575.00/5,000		

‡ VGDS † Cut Tape § Tape and Box ◆ ***RoHS Compliant***

Surface Mount MOSFETs

Dimensions in mm

Mini Type Package (3-pin)

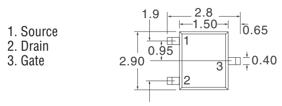

Mini Type Package (5-pin)

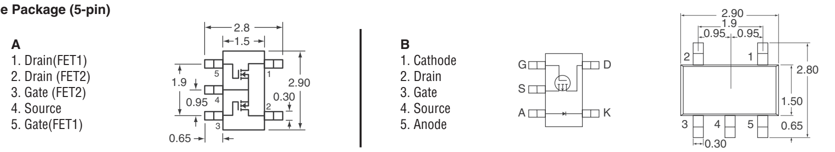

S-Mini Type Package (3-pin)

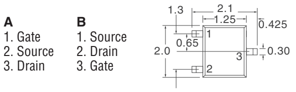

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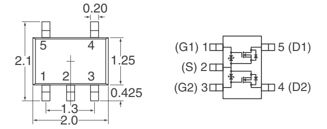

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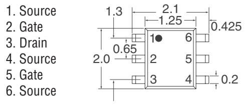

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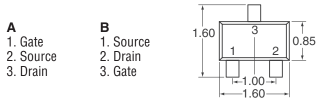

SS-Mini Type Package (5-pin)

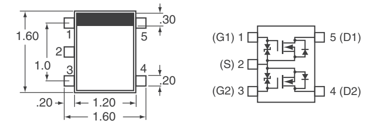

SS-Mini Type Package (6-Pin)

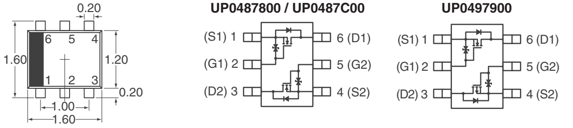

SSS-Mini Type Package (3-Pin)

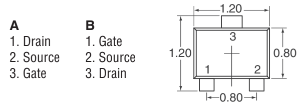

WSMini6

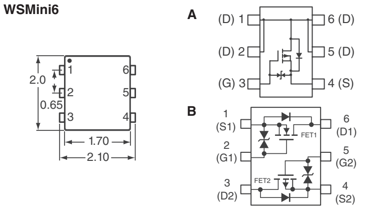

WSSMini6

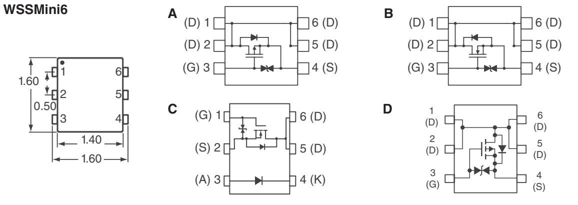

WSMini8

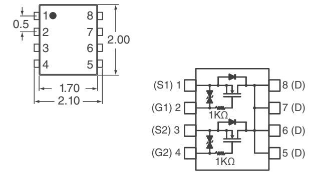

WMini8

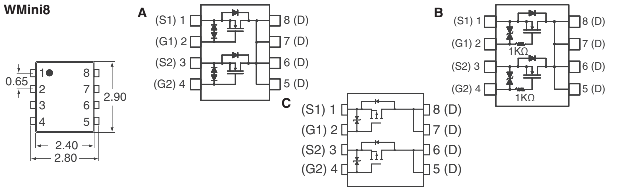

SO8

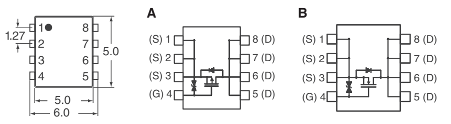

U-G2 Type

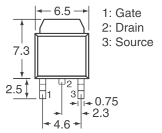

Package	Pin Layout	VDS (V)	ID (mA)	RDS (on) (Ω)	PD Max. (mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Small Signal/Switching MOSFET — N-Channel Type												
Mini 3P	—	30	20	—	150	2SK01980RLCT-ND	.81	6.07	45.51	2SK01980RLTR-ND	3,000	263.00/M
Mini 3P	—	65	20	300	150	2SK11030QLCT-ND	.49	3.92	29.42	2SK11030QLTR-ND	3,000	130.00/M
Mini 3P	—	40	10	—	200	2SK275100LCT-ND	.45	3.75	30.03	2SK275100LTR-ND	3,000	120.00/M
Mini 5P	A	50	100	50 Max.	300	XN0187200LCT-ND	.97	7.31	54.81	—	—	—
S-Mini 3P	A	50†	100	50 Max.	150	2SK066400LCT-ND	.63	4.73	35.51	2SK066400LTR-ND	3,000	205.00/M
S-Mini 3P	A	50†	100	50 Max.	150	2SK0664G0LCT-ND	.63	4.73	35.51	2SK0664G0LTR-ND	3,000	205.17/M
S-Mini 3P	A	50	50	27	150	2SK137400LCT-ND	.73	5.47	41.02	2SK137400LTR-ND	3,000	237.00/M
S-Mini 3P	A	50	50	27	150	2SK1374G0LCT-ND	.73	5.47	41.02	2SK1374G0LTR-ND	3,000	237.02/M
S-Mini 3P	A	30†	1,000	30	150	2SK306400LCT-ND	.46	3.84	30.69	2SK306400LTR-ND	3,000	123.00/M
S-Mini 3P	A	30†	100	30	150	2SK3064G0LCT-ND	.43	3.55	28.42	—	—	—
S-Mini 3P	A	20†	4,500	.02	500	MTM232230LCT-ND	.81	6.07	45.51	—	—	—
S-Mini 3P	B	55	30	—	150	2SK06630RLCT-ND	.49	3.92	29.42	—	—	—
S-Mini 3P	B	55	30	—	150	2SK0663GRLCT-ND	.49	3.92	29.42	—	—	—
S-Mini 5P	—	50†	100	8/6	150	XP0187800LCT-ND	.63	4.71	35.35	—	—	—
S-Mini 6P	—	50†	1,000	8/6	150	XP0487800LCT-ND	.68	5.09	38.18	XP0487800LTR-ND	3,000	221.00/M
SS-Mini 3P	A	50	100	8/6	125	2SK3546J0LCT-ND	.43	3.44	25.82	2SK3546J0LTR-ND	3,000	114.00/M
SS-Mini 3P	B	55	30	—	125	2SK2593JQLCT-ND	.54	4.29	32.18	2SK2593JQLTR-ND	3,000	143.00/M
SS-Mini 3P	B	55	30	—	125	2SK2593GQLCT-ND	.54	4.29	32.17	2SK2593GQLTR-ND	3,000	142.63/M
SS-Mini 5P	—	30	100	7/5	125	UP0187B00LCT-ND	.62	4.68	35.08	UP0187B00LTR-ND	8,000	199.00/M
SS-Mini 6P	—	50†	100	8	—	UP04878G0LCT-ND	.71	5.33	39.96	UP04878G0LTR-ND	8,000	226.44/M
SS-Mini 6P	—	50†	100	8/6	125	UP0497900LCT-ND	.71	5.33	39.96	—	—	—
SS-Mini 6P	—	20†	100	6	125	UP0487C00LCT-ND	.57	4.27	32.06	UP0487C00LTR-ND	8,000	182.00/M
SSS-Mini 3P	A	20*	.1	—	100	2SK33720RLCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.135	—	100	2SK33720SLCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.180	—	100	2SK33720TLCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.290	—	100	2SK33720ULCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.145	—	100	2SK3372GRLCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.220	—	100	2SK3372GSLCT-ND	.53	4.26	31.97	2SK3372GSLTR-ND	10,000	133.20/M
SSS-Mini 3P	A	20*	.310	—	100	2SK3372GTLCT-ND	.53	4.26	31.97	—	—	—
SSS-Mini 3P	A	20*	.470	—	100	2SK3372GULCT-ND	.53	4.26	31.97	2SK3372GULTR-ND	10,000	133.20/M
SSS-Mini 3P	A	20*	2	—	100	2SK34260TLCT-ND	.52	3.91	29.30	2SK34260TLTR-ND	10,000	163.00/M
SSS-Mini 3P	A	50	100	8/6	100	2SK354700LCT-ND	.48	3.83	28.69	2SK354700LTR-ND	10,000	120.00/M
SSS-Mini 3P	A	50	100	8/6	100	2SK3547G0LCT-ND	.48	3.83	28.69	2SK3547G0LTR-ND	10,000	119.54/M
SSS-Mini 3P	B	60†	100	8/6	100	FK3306010LCT-ND ***NEW!***	.48	3.83	28.69	FK3306010LTR-ND ***NEW!***	10,000	119.54/M
WSSMini6	B	20†	2,200	.08	540	MTM862270LBFCT-ND	.82	6.15	46.11	MTM862270LBFTR-ND	10,000	256.15/M
WSSMini6	C	20†	2,200	.08	540	MTM867270LBFCT-ND	.87	6.56	49.18	MTM867270LBFTR-ND	10,000	273.23/M
WSMini8	—	20†	4,000	.0215	700	MTM78E2B0LBFCT-ND	1.19	9.90	79.23	MTM78E2B0LBFTR-ND	3,000	515.02/M
WMini8	A	20†	7,000	.015	1,000	MTMC8E280LBFCT-ND	1.02	8.54	68.31	MTMC8E280LBFTR-ND	3,000	443.99/M
WMini8	B	20†	7,000	.015	1,000	MTMC8E2A0LBFCT-ND	1.02	8.54	68.31	MTMC8E2A0LBFTR-ND	3,000	443.99/M
SO8	B	40†	7,000	.016	2000	MTM982400BBFCT-ND	2.42	19.40	145.49	MTM982400BBFTR-ND	3,000	1241.54/M
SO8	B	30†	18,000	.0065	1000	MTMF82310BBFCT-ND	2.56	20.49	153.69	MTMF82310BBFTR-ND	3,000	1311.48/M
U-G2	—	60†	30,000	.025	25,000	2SK302500LCT-ND	2.76	22.06	171.61	2SK302500LTR-ND	3,000	1544.00/M
U-G2	—	100†	8,000	.15	15,000	2SK303000LCT-ND	1.46	11.64	87.33	2SK303000LTR-ND	3,000	745.00/M
U-G2	—	100†	15,000	.09	20,000	2SK303100LCT-ND	1.76	14.10	105.72	2SK303100LTR-ND	3,000	902.00/M

† VDSS * VDSO

(Continued)

C

Package	Pin Layout	VDS (V)	ID (mA)	RDS (on) (Ω)	PD Max. (mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
U-G2	—	100†	15,000	.07	20,000	2SK326800LCT-ND	2.31	18.48	143.72	—	—	—
U-G2	—	200†	2,500	1.2	10,000	2SK327700LCT-ND	1.26	10.11	75.84	2SK327700LTR-ND	3,000	647.00/M
Small Signal/Switching MOSFET — P-Channel Type												
Mini 3P	—	65	10	300	150	2SJ01630RLCT-ND	.66	4.96	37.23	2SJ01630RLTR-ND	3,000	215.00/M
Mini 5P	B	12†	1,200	.35	600	XN0NE9200LCT-ND	.77	5.78	43.32	XN0NE9200LTR-ND	3,000	250.00/M
S-Mini 3P	A	65	20	—	150	2SJ03640QLCT-ND	.70	5.27	39.53	2SJ03640QLTR-ND	3,000	228.00/M
S-Mini 3P	A	30	100	50	150	2SJ053600LCT-ND	.48	3.98	31.87	2SJ053600LTR-ND	3,000	127.00/M
S-Mini 3P	A	30	100	50	150	2SJ0536G0LCT-ND	.44	3.69	29.51	2SJ0536G0LTR-ND	3,000	118.04/M
S-Mini 3P	A	12†	4,000	.03	500	MTM231100LCT-ND	1.15	9.58	76.61	—	—	—
S-Mini 3P	A	20†	3,000	.04	500	MTM231230LCT-ND	.78	5.88	44.13	—	—	—
SSS-Mini 3P	B	30†	100	13	100	2SJ067400LCT-ND	.43	3.60	28.80	—	—	—
SSS-Mini 3P	B	30†	100	13	100	2SJ0674G0LCT-ND	.43	3.60	28.80	2SJ0674G0LTR-ND	10,000	100.82/M
WSMini6	A	12†	4,000	.03	700	MTM761100LBFCT-ND	.82	6.15	46.11	MTM761100LBFTR-ND	3,000	266.40/M
WSMini6	A	20†	3,000	.036	700	MTM761230LBFCT-ND	.82	6.15	46.11	MTM761230LBFTR-ND	3,000	266.40/M
WSSMini6	A	20†	2,000	.08	540	MTM861270LBFCT-ND	.82	6.15	46.11	MTM861270LBFTR-ND	10,000	256.15/M
WSSMini6	A	20†	1,000	.3	540	MTM861280LBFCT-ND	.77	5.74	43.03	MTM861280LBFTR-ND	10,000	239.08/M
WSSMini6	D	20†	2,000	.1	540	MTM861240LBFCT-ND	.93	6.97	52.25	MTM861240LBFTR-ND	10,000	290.30/M
WMini8	C	12†	4,800	.032	1,000	MTM684100LBFCT-ND	1.02	8.54	68.31	MTM684100LBFTR-ND	3,000	443.99/M
WMini8	C	12†	4,800	.023	1,000	MTM684110LBFCT-ND	1.35	11.27	90.16	MTM684110LBFTR-ND	3,000	586.07/M
SO8	A	40†	7,000	.019	2000	MTM981400BBFCT-ND	2.05	16.39	122.95	MTM981400BBFTR-ND	3,000	1049.18/M
U-G2	—	200†	2,000	1.5	10,000	2SJ058200LCT-ND	1.49	11.95	89.63	2SJ058200LTR-ND	3,000	765.00/M
Small Signal/Switching MOSFET — N/P-Channel Type												
WSMini6	B	±20†	1,900/-1200	.08/.1	700	MTM763200LBFCT-ND	.94	7.86	62.84	MTM763200LBFTR-ND	3,000	408.48/M

† VDSS * VDSO

PNP/NPN Transistors

NS-B1 Type

Through-hole with built-in resistors for preset gains

VCEO = 50V/-50V

PT = 300mW

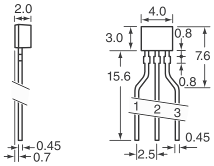

Dim. in mm

1. Emitter
2. Collector
3. Base

Res. Value RB KΩ	RBE KΩ	Minimum hFE Vce= 10V	IC (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 5,000
PNP									
10	10	35	100	UNR411100ACT-ND	.42	3.50	28.04	UNR411100ATB-ND	105.00/M
10	47	80	100	UNR411400ACT-ND	.42	3.50	28.04	UNR411400ATB-ND	105.00/M
4.7	—	210	100	UNR41160RACT-ND	.42	3.50	28.04	UNR41160RATB-ND	105.00/M
0.51	5.1	20	100	UNR411800ACT-ND	.42	3.50	28.04	UNR411800ATB-ND	105.00/M
1	10	30	100	UNR411900ACT-ND	.42	3.50	28.04	UNR411900ATB-ND	105.00/M
47	22	60	100	UNR411E00ACT-ND	.42	3.50	28.04	UNR411E00ATB-ND	105.00/M
2.2	10	30	100	UNR411H00ACT-ND	.42	3.50	28.04	—	—
2.2	2.2	40	500	UNR412100ACT-ND	.52	4.14	31.03	UNR412100ATB-ND	132.00/M
4.7	4.7	50	500	UNR412200ACT-ND	.52	4.14	31.03	UNR412200ATB-ND	132.00/M
10	10	60	500	UNR412300ACT-ND	.52	4.14	31.03	UNR412300ATB-ND	132.00/M
NPN									
47	—	210	100	UNR42100RACT-ND	.42	3.50	28.04	UNR42100RATB-ND	105.00/M
10	10	35	100	UNR421100ACT-ND	.42	3.50	28.04	UNR421100ATB-ND	105.00/M
22	22	60	100	UNR421200ACT-ND	.42	3.50	28.04	UNR421200ATB-ND	105.00/M
10	47	80	100	UNR421400ACT-ND	.42	3.50	28.04	UNR421400ATB-ND	105.00/M
4.7	—	210	100	UNR42160RACT-ND	.42	3.50	28.04	UNR42160RATB-ND	105.00/M
22	—	210	100	UNR42170RACT-ND	.42	3.50	28.04	—	—
1	10	30	100	UNR421900ACT-ND	.42	3.50	28.04	UNR421900ATB-ND	105.00/M
47	10	30	100	UNR421D00ACT-ND	.42	3.50	28.04	UNR421D00ATB-ND	105.00/M
4.7	10	30	100	UNR421F00ACT-ND	.42	3.50	28.04	UNR421F00ATB-ND	105.00/M
10	4.7	20	100	UNR421K00ACT-ND	.42	3.50	28.04	UNR421K00ATB-ND	105.00/M
4.7	4.7	20	100	UNR421L00ACT-ND	.42	3.50	28.04	UNR421L00ATB-ND	105.00/M
2.2	2.2	40	500	UNR422100ACT-ND	.52	4.14	31.03	UNR422100ATB-ND	132.00/M
4.7	4.7	50	500	UNR422200ACT-ND	.52	4.14	31.03	UNR422200ATB-ND	132.00/M

NEW S Type

Dim. in mm

VCEO = 50V/-50V

PT = 300mW

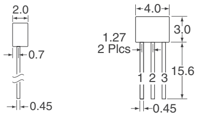

1. Emitter
2. Collector
3. Base

Res. Value RB KΩ	RBE KΩ	hFE Min. VCE= 10V Ic= 5mA	IC (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 5,000
PNP									
22	22	60	100	UNR411200ACT-ND	.45	3.79	30.28	UNR411200ATB-ND	114.00/M
47	47	80	100	UNR411300ACT-ND	.45	3.79	30.28	UNR411300ATB-ND	114.00/M
4.7	10	30	100	UNR411F00ACT-ND	.45	3.79	30.28	UNR411F00ATB-ND	114.00/M
4.7	4.7	20	100	UNR411L00ACT-ND	.45	3.79	30.28	UNR411L00ATB-ND	114.00/M
2.2	10	60‡	500	UNR412400ACT-ND◆	.56	4.47	33.51	UNR412400ATB-ND◆	142.00/M
NPN									
47	47	80	100	UNR421300ACT-ND	.45	3.79	30.28	UNR421300ATB-ND	114.00/M
0.51	5.1	20	100	UNR421800ACT-ND	.45	3.79	30.28	UNR421800ATB-ND	114.00/M
10	10	60‡	500	UNR422300ACT-ND	.56	4.47	33.51	UNR422300ATB-ND	142.00/M
2.2	10	60‡	500	UNR422400ACT-ND◆	.56	4.47	33.51	UNR422400ATB-ND◆	142.00/M

‡ IC = 100mA ◆ ***RoHS Compliant***

Mini Type

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 200mW**
IC = 100mA/-100mA **JEDEC: TO-236**
EIAJ: SC-59A

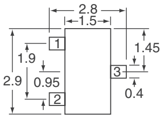

Dim. in mm

1. Base
2. Emitter
3. Collector

Res. Value RB KΩ	RBE KΩ	hFE Min. Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP								
10	10	35	UNR211100LCT-ND◆	.37	2.79	19.36	UNR211100LTR-ND◆	74.00/M
10	10	35	DRA2114E0LCT-ND◆✔	.33	2.49	17.29	DRA2114E0LTR-ND◆✔	66.50/M
22	22	60	UNR211200LCT-ND◆	.37	2.79	19.36	—	—
47	47	80	UNR211300LCT-ND	.37	2.79	19.36	UNR211300LTR-ND	74.00/M
10	47	80	UNR211400LCT-ND◆	.37	2.79	19.36	UNR211400LTR-ND◆	74.00/M
10	—	160	UNR211500LCT-ND◆	.37	2.79	19.36	UNR211500LTR-ND◆	74.00/M
4.7	—	160	UNR211600LCT-ND◆	.37	2.79	19.36	UNR211600LTR-ND◆	74.00/M
4.7	—	160	DRA2143T0LCT-ND◆✔	.33	2.49	17.29	DRA2143T0LTR-ND◆✔	66.50/M
0.51	5.1	20	UNR211800LCT-ND	.37	2.79	19.36	UNR211800LTR-ND	74.00/M
1	10	30	UNR211900LCT-ND	.37	2.79	19.36	—	—
1	10	30	DRA2113Z0LCT-ND◆✔	.33	2.49	17.29	DRA2113Z0LTR-ND◆✔	66.50/M
47	—	160	UNR211000LCT-ND	.37	2.79	19.36	UNR211000LTR-ND	74.00/M
47	10	30	UNR211D00LCT-ND	.37	2.79	19.36	UNR211D00LTR-ND	74.00/M
47	22	60	UNR211E00LCT-ND	.37	2.79	19.36	UNR211E00LTR-ND	74.00/M
4.7	10	30	UNR211F00LCT-ND◆	.37	2.79	19.36	UNR211F00LTR-ND◆	74.00/M
2.2	10	30	UNR211H00LCT-ND	.37	2.79	19.36	UNR211H00LTR-ND	74.00/M
4.7	4.7	20	UNR211L00LCT-ND◆	.37	2.79	19.36	UNR211L00LTR-ND◆	74.00/M
2.2	47	80	UNR211M00LCT-ND	.37	2.79	19.36	UNR211M00LTR-ND	74.00/M
4.7	47	80	UNR211N00LCT-ND	.37	2.79	19.36	UNR211N00LTR-ND	74.00/M
2.2	2.2	6	UNR211V00LCT-ND	.37	2.79	19.36	UNR211V00LTR-ND	74.00/M
0.27	5	20‡	UNR212X00LCT-ND	.56	4.51	33.86	UNR212X00LTR-ND	150.00/M
2.2	2.2	40	UNR212100LCT-ND	.59	4.68	35.12	—	—
4.7	4.7	50	UNR212200LCT-ND◆	.59	4.68	35.12	UNR212200LTR-ND◆	156.00/M
10	10	60	UNR212300LCT-ND	.59	4.68	35.12	UNR212300LTR-ND	156.00/M
2.2	10	60	UNR212400LCT-ND	.59	4.68	35.12	UNR212400LTR-ND	156.00/M
NPN								
10	10	35	UNR221100LCT-ND◆	.37	2.79	19.36	UNR221100LTR-ND◆	74.00/M
10	10	35	DRC2114E0LCT-ND◆✔	.33	2.49	17.29	DRC2114E0LTR-ND◆✔	66.50/M
22	22	60	UNR221200LCT-ND◆	.37	2.79	19.36	—	—
22	22	60	DRC2124E0LCT-ND◆✔	.33	2.49	17.29	DRC2124E0LTR-ND◆✔	66.50/M
47	47	80	UNR221300LCT-ND	.37	2.79	19.36	UNR221300LTR-ND	74.00/M
47	47	80	DRC2144E0LCT-ND◆✔	.33	2.49	17.29	DRC2144E0LTR-ND◆✔	66.50/M
10	47	80	UNR221400LCT-ND◆	.37	2.79	19.36	UNR221400LTR-ND◆	74.00/M
10	47	80	DRC2114Y0LCT-ND◆✔	.33	2.49	17.29	DRC2114Y0LTR-ND◆✔	66.50/M
10	—	160	UNR221500LCT-ND◆	.37	2.79	19.36	UNR221500LTR-ND◆	74.00/M
10	—	160	DRC2114T0LCT-ND◆✔	.33	2.49	17.29	DRC2114T0LTR-ND◆✔	66.50/M
4.7	—	160	UNR221600LCT-ND◆	.37	2.79	19.36	UNR221600LTR-ND◆	74.00/M
4.7	—	160	DRC2143T0LCT-ND◆✔	.33	2.49	17.29	DRC2143T0LTR-ND◆✔	66.50/M
22	—	160	UNR221700LCT-ND	.37	2.79	19.36	UNR221700LTR-ND	74.00/M
0.51	5.1	20	UNR221800LCT-ND	.37	2.79	19.36	UNR221800LTR-ND	74.00/M
1	10	30	UNR221900LCT-ND◆	.37	2.79	19.36	—	—
1	10	30	DRC2113Z0LCT-ND◆✔	.33	2.49	17.29	DRC2113Z0LTR-ND◆✔	66.50/M
47	—	160	UNR221000LCT-ND◆	.37	2.79	19.36	UNR221000LTR-ND◆	74.00/M
47	—	160	DRC2144T0LCT-ND◆✔	.33	2.49	17.29	DRC2144T0LTR-ND◆✔	66.50/M
47	10	30	UNR221D00LCT-ND	.37	2.79	19.36	UNR221D00LTR-ND	74.00/M
47	22	60	UNR221E00LCT-ND◆	.37	2.79	19.36	UNR221E00LTR-ND◆	74.00/M
4.7	10	30	UNR221F00LCT-ND	.37	2.79	19.36	—	—
4.7	10	30	DRC2143X0LCT-ND◆✔	.33	2.49	17.29	DRC2143X0LTR-ND◆✔	66.50/M
10	4.7	20	UNR221K00LCT-ND◆	.37	2.79	19.36	—	—
10	4.7	20	DRC2114W0LCT-ND◆✔	.33	2.49	17.29	DRC2114W0LTR-ND◆✔	66.50/M
4.7	4.7	20	UNR221L00LCT-ND	.37	2.79	19.36	UNR221L00LTR-ND	74.00/M
2.2	47	80	UNR221M00LCT-ND◆	.37	2.79	19.36	UNR221M00LTR-ND◆	74.00/M
2.2	47	80	DRC2123J0LCT-ND◆✔	.33	2.49	17.29	DRC2123J0LTR-ND◆✔	66.50/M
4.7	47	80	UNR221N00LCT-ND	.37	2.79	19.36	UNR221N00LTR-ND	74.00/M
4.7	47	80	DRC2143Z0LCT-ND◆✔	.33	2.49	17.29	DRC2143Z0LTR-ND◆✔	66.50/M
22	47	80	UNR221T00LCT-ND	.36	2.69	18.65	—	—
22	47	80	DRC2124X0LCT-ND◆✔	.33	2.49	17.26	DRC2124X0LTR-ND◆✔	66.40/M
2.2	2.2	6	UNR221V00LCT-ND	.37	2.79	19.36	UNR221V00LTR-ND	74.00/M
2.2	2.2	40	UNR222100LCT-ND	.54	4.33	32.45	UNR222100LTR-ND	144.00/M
4.7	4.7	50	UNR222200LCT-ND	.54	4.33	32.45	—	—
10	10	60	UNR222300LCT-ND◆	.44	3.49	26.15	UNR222300LTR-ND◆	116.00/M
2.2	10	60	UNR222400LCT-ND◆	.54	4.33	32.45	UNR222400LTR-ND◆	144.00/M
4.7	—	100	UNR222600LCT-ND	.44	3.49	26.15	—	—
1	47	800	UNR723100LCT-ND†	.66	4.94	37.05	—	—

† Mini Power Type: VCE0 = 20V IC = 700mA PT = 1000mW
‡ IC = 500mA ◆ ***RoHS Compliant*** ✔ ***NEW!***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

S-Mini Type

Digi-Reel®

Dim. in mm

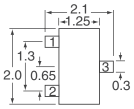

1. Base
2. Emitter
3. Collector

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 150mW**
IC = 100mA/-100mA **EIAJ: SC-70**

Res. Value RB KΩ	Res. Value RBE KΩ	hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP								
10	10	35	UNR511100LCT-ND◆	.40	2.97	20.60	—	—
10	10	35	DRA5114E0LCT-ND◆ ***NEW!***	.35	2.65	18.39	DRA5114E0LTR-ND◆ ***NEW!***	70.74/M
22	22	60	UNR511200LCT-ND	.40	2.97	20.60	—	—
47	47	80	UNR511300LCT-ND	.40	2.97	20.60	—	—
47	47	80	UNR5113G0LCT-ND◆	.35	2.65	18.39	UNR5113G0LTR-ND◆	70.74/M
10	47	80	UNR511400LCT-ND	.40	2.97	20.60	UNR511400LTR-ND	79.00/M
10	47	80	UNR5114G0LCT-ND◆	.35	2.65	18.39	UNR5114G0LTR-ND◆	70.74/M
10	—	160	UNR511500LCT-ND◆	.40	2.97	20.60	—	—
4.7	—	160	UNR511600LCT-ND	.40	2.97	20.60	UNR511600LTR-ND	79.00/M
4.7	—	160	UNR5116G0LCT-ND◆	.35	2.65	18.39	UNR5116G0LTR-ND◆	70.74/M
22	—	160	UNR511700LCT-ND◆	.40	2.97	20.60	UNR511700LTR-ND◆	79.00/M
22	—	160	UNR5117G0LCT-ND◆	.35	2.65	18.39	UNR5117G0LTR-ND◆	70.74/M
.51	5.1	20	UNR511800LCT-ND	.40	2.97	20.60	UNR511800LTR-ND	79.00/M
.51	5.1	20	UNR5118G0LCT-ND◆	.35	2.65	18.39	UNR5118G0LTR-ND◆	70.74/M
1	10	30	UNR511900LCT-ND	.40	2.97	20.60	UNR511900LTR-ND	79.00/M
1	10	30	UNR5119G0LCT-ND◆	.35	2.65	18.39	UNR5119G0LTR-ND◆	70.74/M
47	—	160	UNR511000LCT-ND	.40	2.97	20.60	UNR511000LTR-ND	79.00/M
47	10	30	UNR511D00LCT-ND	.40	2.97	20.60	UNR511D00LTR-ND	79.00/M
47	10	30	UNR511DG0LCT-ND◆	.35	2.65	18.39	UNR511DG0LTR-ND◆	70.74/M
47	22	60	UNR511E00LCT-ND	.40	2.97	20.60	UNR511E00LTR-ND	79.00/M
47	22	60	UNR511EG0LCT-ND◆	.35	2.65	18.39	UNR511EG0LTR-ND◆	70.74/M
4.7	10	30	UNR511F00LCT-ND	.40	2.97	20.60	UNR511F00LTR-ND	79.00/M
4.7	10	30	UNR511FG0LCT-ND◆	.35	2.65	18.39	—	—
2.2	10	30	UNR511H00LCT-ND	.40	2.97	20.60	—	—
2.2	10	30	UNR511HG0LCT-ND◆	.35	2.65	18.39	UNR511HG0LTR-ND◆	70.74/M
4.7	4.7	20	UNR511L00LCT-ND	.40	2.97	20.60	UNR511L00LTR-ND	79.00/M
4.7	4.7	20	UNR511LG0LCT-ND◆	.35	2.65	18.39	UNR511LG0LTR-ND◆	70.74/M
2.2	47	80	UNR511M00LCT-ND	.40	2.97	20.60	UNR511M00LTR-ND	79.00/M
4.7	47	80	UNR511N00LCT-ND	.40	2.97	20.60	UNR511N00LTR-ND	79.00/M
4.7	4.7	80	UNR511NG0LCT-ND◆	.35	2.65	18.39	UNR511NG0LTR-ND◆	70.74/M
22	47	80	UNR511T00LCT-ND◆	.35	2.65	18.39	—	—
22	47	80	UNR511TG0LCT-ND◆	.35	2.65	18.39	UNR511TG0LTR-ND◆	70.74/M
2.2	2.2	6	UNR511V00LCT-ND	.40	2.97	20.60	—	—
2.2	2.2	6	UNR511VG0LCT-ND◆	.35	2.65	18.39	UNR511VG0LTR-ND◆	70.74/M
10	47	80	UNR515400LCT-NDΔ◆	.35	2.65	18.39	UNR515400LTR-NDΔ◆	71.00/M
NPN								
10	—	160	UNR5115G0LCT-ND◆	.35	2.65	18.39	UNR5115G0LTR-ND◆	70.74/M
47	—	160	UNR5210G0LCT-ND◆	.35	2.65	18.39	UNR5210G0LTR-ND◆	70.74/M
10	10	35	UNR521100LCT-ND◆	.40	2.97	20.60	—	—
22	22	60	UNR5212G0LCT-ND◆	.35	2.65	18.39	—	—
47	47	80	UNR521300LCT-ND◆	.40	2.97	20.60	—	—
47	47	80	UNR5213G0LCT-ND◆	.35	2.65	18.39	UNR5213G0LTR-ND◆	70.74/M
10	47	80	UNR521400LCT-ND◆	.40	2.97	20.60	—	—
10	47	80	UNR5214G0LCT-ND◆	.35	2.65	18.39	UNR5214G0LTR-ND◆	70.74/M
10	—	160	UNR521500LCT-ND◆	.40	2.97	20.60	UNR521500LTR-ND◆	79.00/M
10	—	160	UNR5215G0LCT-ND◆	.35	2.65	18.39	UNR5215G0LTR-ND◆	70.74/M
4.7	—	160	UNR521600LCT-ND	.40	2.97	20.60	UNR521600LTR-ND	79.00/M
22	—	160	UNR521700LCT-ND	.40	2.97	20.60	UNR521700LTR-ND	79.00/M
22	—	160	UNR5217G0LCT-ND◆	.35	2.65	18.39	UNR5217G0LTR-ND◆	70.74/M
.51	5.1	20	UNR521800LCT-ND	.40	2.97	20.60	UNR521800LTR-ND	79.00/M
.51	5.1	20	UNR5218G0LCT-ND◆	.35	2.65	18.39	UNR5218G0LTR-ND◆	70.74/M
47	—	160	UNR521000LCT-ND	.40	2.97	20.60	—	—
47	10	30	UNR521D00LCT-ND◆	.40	2.97	20.60	UNR521D00LTR-ND◆	79.00/M
47	10	30	UNR521DG0LCT-ND◆	.35	2.65	18.39	UNR521DG0LTR-ND◆	70.74/M
47	22	60	UNR521E00LCT-ND	.40	2.97	20.60	UNR521E00LTR-ND	79.00/M
4.7	10	30	UNR521F00LCT-ND◆	.40	2.97	20.60	UNR521F00LTR-ND◆	79.00/M
10	4.7	20	UNR521K00LCT-ND	.40	2.97	20.60	UNR521K00LTR-ND	79.00/M
4.7	10	30	UNR521FG0LCT-ND◆	.35	2.65	18.39	UNR521FG0LTR-ND◆	70.74/M
4.7	4.7	20	UNR521L00LCT-ND◆	.40	2.97	20.60	UNR521L00LTR-ND◆	79.00/M
4.7	4.7	20	UNR521LG0LCT-ND◆	.35	2.65	18.39	UNR521LG0LTR-ND◆	70.74/M
2.2	47	80	UNR521M00LCT-ND	.40	2.97	20.60	—	—
2.2	47	80	UNR521MG0LCT-ND◆	.35	2.65	18.39	UNR521MG0LTR-ND◆	70.74/M
4.7	47	80	UNR521N00LCT-ND	.40	2.97	20.60	UNR521N00LTR-ND	79.00/M
4.7	47	80	UNR521NG0LCT-ND◆	.35	2.65	18.39	UNR521NG0LTR-ND◆	70.74/M
22	47	80	UNR521T00LCT-ND◆	.35	2.65	18.39	UNR521T00LTR-ND◆	71.00/M
22	47	80	UNR521TG0LCT-ND◆	.35	2.65	18.39	UNR521TG0LTR-ND◆	70.74/M
2.2	2.2	6	UNR521V00LCT-ND	.40	2.97	20.60	UNR521V00LTR-ND	79.00/M
—	100	80	UNR521W00LCT-ND◆	.35	2.65	18.39	UNR521W00LTR-ND◆	71.00/M
—	100	80	UNR521WG0LCT-ND◆	.35	2.65	18.39	UNR521WG0LTR-ND◆	70.74/M
4.7	—	100‡	UNR522600LCT-ND§◆	.48	3.86	28.98	UNR522600LTR-ND§◆	128.00/M

§ VCEO = 20V; IC = 600mA ‡ VCE = 5V; IC = 50mA Δ VCEO = 30V ◆ ***RoHS Compliant***

S-Mini Type

Dim. in mm

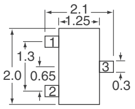

1. Base
2. Emitter
3. Collector

RoHS COMPLIANT

Digi-Reel®

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 150mW**
IC = 80mA/-80mA **EIAJ: SC-70**

Res. Value RB KΩ	Res. Value RBE KΩ	hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP								
47	—	160	UNR51A0G0LCT-ND	.35	2.65	18.39	UNR51A0G0LTR-ND	70.74/M
10	10	35	UNR51A1G0LCT-ND	.35	2.65	18.39	UNR51A1G0LTR-ND	70.74/M
22	22	60	UNR51A2G0LCT-ND	.35	2.65	18.39	UNR51A2G0LTR-ND	70.74/M
47	47	80	UNR51A3G0LCT-ND	.35	2.65	18.39	UNR51A3G0LTR-ND	70.74/M
10	47	80	UNR51A4G0LCT-ND	.35	2.65	18.39	UNR51A4G0LTR-ND	70.74/M
10	—	160	UNR51A5G0LCT-ND	.35	2.65	18.39	UNR51A5G0LTR-ND	70.74/M
4.7	—	160	UNR51A6G0LCT-ND	.35	2.65	18.39	UNR51A6G0LTR-ND	70.74/M
47	22	60	UNR51AEG0LCT-ND	.35	2.65	18.39	UNR51AEG0LTR-ND	70.74/M
4.7	4.7	20	UNR51ALG0LCT-ND	.35	2.65	18.39	UNR51ALG0LTR-ND	70.74/M
2.2	47	80	UNR51AMG0LCT-ND	.35	2.65	18.39	UNR51AMG0LTR-ND	70.74/M
4.7	47	80	UNR51ANG0LCT-ND	.35	2.65	18.39	UNR51ANG0LTR-ND	70.74/M
22	47	80	UNR51ATG0LCT-ND	.35	2.65	18.39	UNR51ATG0LTR-ND	70.74/M
2.2	2.2	6	UNR51AVG0LCT-ND	.35	2.65	18.39	UNR51AVG0LTR-ND	70.74/M
NPN								
47	—	160	UNR52A0G0LCT-ND	.35	2.65	18.39	UNR52A0G0LTR-ND	70.74/M
10	10	35	UNR52A1G0LCT-ND	.35	2.65	18.39	UNR52A1G0LTR-ND	70.74/M
22	22	60	UNR52A2G0LCT-ND	.35	2.65	18.39	UNR52A2G0LTR-ND	70.74/M
47	47	80	UNR52A3G0LCT-ND	.35	2.65	18.39	UNR52A3G0LTR-ND	70.74/M
10	47	80	UNR52A4G0LCT-ND	.35	2.65	18.39	UNR52A4G0LTR-ND	70.74/M
10	—	160	UNR52A5G0LCT-ND	.35	2.65	18.39	UNR52A5G0LTR-ND	70.74/M
4.7	—	160	UNR52A6G0LCT-ND	.35	2.65	18.39	UNR52A6G0LTR-ND	70.74/M
0.51	5.1	20	UNR52A8G0LCT-ND	.35	2.65	18.39	UNR52A8G0LTR-ND	70.74/M
47	22	60	UNR52AEG0LCT-ND	.35	2.65	18.39	UNR52AEG0LTR-ND	70.74/M
4.7	10	30	UNR52AFG0LCT-ND	.35	2.65	18.39	UNR52AFG0LTR-ND	70.74/M
4.7	4.7	20	UNR52ALG0LCT-ND	.35	2.65	18.39	UNR52ALG0LTR-ND	70.74/M
2.2	47	80	UNR52AMG0LCT-ND	.35	2.65	18.39	UNR52AMG0LTR-ND	70.74/M
4.7	47	80	UNR52ANG0LCT-ND	.35	2.65	18.39	UNR52ANG0LTR-ND	70.74/M
2.2	2.2	6	UNR52AVG0LCT-ND	.35	2.65	18.39	UNR52AVG0LTR-ND	70.74/M

SSS-Mini Type

Digi-Reel®

Dim. in mm

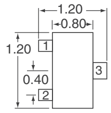

1. Base
2. Emitter
3. Collector

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **IC = 80mA/-80mA**
PT = 100mW

Res. Value RB KΩ	Res. Value RBE KΩ	hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 10,000
PNP								
47	—	160	UNR31A000LCT-ND◆	.41	3.24	22.82	—	—
47	—	160	UNR31A0G0LCT-ND◆	.37	2.89	20.38	UNR31A0G0LTR-ND◆	71.79/M
10	10	35	UNR31A100LCT-ND◆	.41	3.24	22.82	—	—
10	10	35	UNR31A1G0LCT-ND◆	.37	2.89	20.38	UNR31A1G0LTR-ND◆	71.79/M
47	47	80	UNR31A300LCT-ND◆	.41	3.24	22.82	—	—
47	47	80	UNR31A3G0LCT-ND◆	.37	2.89	20.38	UNR31A3G0LTR-ND◆	71.79/M
10	47	80	UNR31A400LCT-ND◆	.41	3.24	22.82	—	—
10	47	80	UNR31A4G0LCT-ND◆	.37	2.89	20.38	UNR31A4G0LTR-ND◆	71.79/M
10	—	160	UNR31A500LCT-ND◆	.41	3.24	22.82	—	—
10	—	160	UNR31A5G0LCT-ND◆	.37	2.89	20.38	UNR31A5G0LTR-ND◆	71.79/M
4.7	—	160	UNR31A600LCT-ND	.41	3.24	22.82	—	—
4.7	—	160	UNR31A6G0LCT-ND◆	.37	2.89	20.38	UNR31A6G0LTR-ND◆	71.79/M
1	10	30	UNR31A900LCT-ND◆	.34	2.64	18.58	UNR31A900LTR-ND◆	65.00/M
1	10	30	UNR31A9G0LCT-ND◆	.34	2.64	18.57	UNR31A9G0LTR-ND◆	65.43/M
47	22	60	UNR31AE00LCT-ND	.41	3.24	22.82	UNR31AE00LTR-ND	80.00/M
47	22	60	UNR31AEG0LCT-ND◆	.37	2.89	20.38	UNR31AEG0LTR-ND◆	71.79/M
10	10	35‡	UNR311100LCT-ND	.40	3.30	26.43	UNR311100LTR-ND	93.00/M
22	22	60‡	UNR311200LCT-ND◆	.41	3.33	22.85	UNR311200LTR-ND◆	95.00/M
47	47	80‡	UNR311300LCT-ND	.39	3.28	26.21	UNR311300LTR-ND	92.00/M
2.2	47	80	UNR31AM00LCT-ND◆	.37	2.89	20.38	—	—
2.2	47	80	UNR31AMG0LCT-ND◆	.37	2.89	20.38	UNR31AMG0LTR-ND◆	71.79/M
4.7	47	80	UNR31AN00LCT-ND◆	.37	2.89	20.38	—	—
4.7	47	80	UNR31ANG0LCT-ND◆	.37	2.89	20.38	UNR31ANG0LTR-ND◆	71.79/M
NPN								
47	—	160	UNR32A0G0LCT-ND◆	.37	2.89	20.38	—	—
10	10	35	UNR32A100LCT-ND	.41	3.24	22.82	—	—
10	10	35	UNR32A1G0LCT-ND◆	.37	2.89	20.38	UNR32A1G0LTR-ND◆	71.79/M
47	47	80	UNR32A300LCT-ND	.41	3.24	22.82	—	—
47	47	80	UNR32A3G0LCT-ND◆	.37	2.89	20.38	UNR32A3G0LTR-ND◆	71.79/M
10	47	80	UNR32A400LCT-ND◆	.41	3.24	22.82	—	—
10	47	80	UNR32A4G0LCT-ND◆	.37	2.89	20.38	UNR32A4G0LTR-ND◆	71.79/M

‡ IC = 100mA ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

PNP/NPN Transistors

SSS-Mini Type *(Cont.)*

Res. Value		hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000
RB KΩ	RBE KΩ			1	10	100		
10	—	160	UNR32A500LCT-ND	.41	3.24	22.82	—	—
10	—	160	UNR32A5G0LCT-ND◆	.37	2.89	20.38	UNR32A5G0LTR-ND◆	71.79/M
4.7	—	160	UNR32A600LCT-ND◆	.41	3.24	22.82	—	—
4.7	—	160	UNR32A6G0LCT-ND◆	.37	2.89	20.38	UNR32A6G0LTR-ND◆	71.79/M
22	—	160	UNR32A700LCT-ND◆	.34	2.64	18.58	UNR32A700LTR-ND◆	65.00/M
47	—	160‡	UNR321000LCT-ND	.40	3.30	26.43	UNR321000LTR-ND	93.00/M
47	47	80‡	UNR321300LCT-ND	.39	3.28	26.21	UNR321300LTR-ND	92.00/M
4.7	—	160‡	UNR321600LCT-ND	.39	3.28	26.21	—	—
4.7	47	80‡	UNR321N00LCT-ND	.39	3.28	26.21	UNR321N00LTR-ND	92.00/M
100	100	80	UNR32AA00LCT-ND	.41	3.24	22.82	—	—
100	100	80	UNR32AAG0LCT-ND◆	.37	2.89	20.38	UNR32AAG0LTR-ND◆	71.79/M
100	—	160	UNR32AB00LCT-ND◆	.37	2.89	20.38	—	—
47	22	60	UNR32AE00LCT-ND◆	.37	2.89	20.38	UNR32AE00LTR-ND◆	72.00/M
47	22	60	UNR32AEG0LCT-ND◆	.37	2.89	20.38	UNR32AEG0LTR-ND◆	71.79/M
2.2	47	80	UNR32AM00LCT-ND◆	.37	2.89	20.38	UNR32AM00LTR-ND◆	72.00/M
2.2	47	80	UNR32AMG0LCT-ND◆	.37	2.89	20.38	UNR32AMG0LTR-ND◆	71.79/M
4.7	47	80	UNR32AN00LCT-ND◆	.37	2.89	20.38	—	—
4.7	47	80	UNR32ANG0LCT-ND◆	.37	2.89	20.38	UNR32ANG0LTR-ND◆	71.79/M
22	47	80	UNR32AT00LCT-ND◆	.37	2.89	20.38	UNR32AT00LTR-ND◆	72.00/M
22	47	80	UNR32ATG0LCT-ND◆	.37	2.89	20.38	UNR32ATG0LTR-ND◆	71.79/M

‡ IC = 100mA ◆ ***RoHS Compliant***

SS-Mini Flat (J-Type)

Digi-Reel®

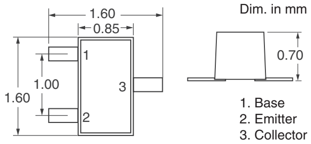

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 125mW**
IC = 100mA/-100mA **EIAJ: SC-81**

Resistance Value		hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
RB KΩ	RBE KΩ			1	10	100		
PNP								
47	—	160	UNR9110G0LCT-ND◆	.37	2.77	19.18	UNR9110G0LTR-ND◆	73.78/M
10	10	35	UNR9111G0LCT-ND◆	.37	2.77	19.18	UNR9111G0LTR-ND◆	73.78/M
10	10	35	UNR9111J0LCT-ND	.40	2.99	20.72	—	—
22	22	60	UNR9112G0LCT-ND◆	.37	2.77	19.18	UNR9112G0LTR-ND◆	73.78/M
22	22	60	UNR9112J0LCT-ND	.40	2.99	20.72	UNR9112J0LTR-ND	80.00/M
47	47	80	UNR9113G0LCT-ND◆	.37	2.77	19.18	UNR9113G0LTR-ND◆	73.78/M
47	47	80	UNR9113J0LCT-ND	.40	2.99	20.72	—	—
10	47	80	UNR9114G0LCT-ND◆	.37	2.77	19.18	UNR9114G0LTR-ND◆	73.78/M
10	47	80	DRA9114Y0LCT-ND◆ ***NEW!***	.37	2.77	19.18	DRA9114Y0LTR-ND◆ ***NEW!***	73.78/M
10	47	80	UNR9114J0LCT-ND	.40	2.99	20.72	—	—
10	—	160	UNR9115G0LCT-ND◆	.37	2.77	19.18	UNR9115G0LTR-ND◆	73.78/M
10	—	160	UNR9115J0LCT-ND	.40	2.99	20.72	—	—
4.7	—	160	UNR9116G0LCT-ND◆	.37	2.77	19.18	UNR9116G0LTR-ND◆	73.78/M
4.7	—	160	UNR9116J0LCT-ND	.40	2.99	20.72	UNR9116J0LTR-ND	80.00/M
22	—	160	UNR9117G0LCT-ND◆	.37	2.77	19.18	UNR9117G0LTR-ND◆	73.78/M
22	—	160	UNR9117J0LCT-ND	.40	2.99	20.72	UNR9117J0LTR-ND	80.00/M
.51	5.1	20	UNR9118G0LCT-ND◆	.37	2.77	19.18	UNR9118G0LTR-ND◆	73.78/M
.51	5.1	20	UNR9118J0LCT-ND	.40	2.99	20.72	UNR9118J0LTR-ND	80.00/M
1	10	30	UNR9119G0LCT-ND◆	.37	2.77	19.18	UNR9119G0LTR-ND◆	73.78/M
1	10	30	UNR9119J0LCT-ND	.40	2.99	20.72	—	—
47	—	160	UNR9110J0LCT-ND	.40	2.99	20.72	UNR9110J0LTR-ND	80.00/M
100	100	80	UNR911AG0LCT-ND◆	.37	2.77	19.18	—	—
100	100	80	UNR911AJ0LCT-ND	.37	2.77	19.18	—	—
100	—	160	UNR911BG0LCT-ND◆	.37	2.77	19.18	UNR911BG0LTR-ND◆	73.78/M
100	—	160	UNR911BJ0LCT-ND	.37	2.77	19.18	UNR911BJ0LTR-ND	74.00/M
47	10	30	UNR911DG0LCT-ND◆	.37	2.77	19.18	UNR911DG0LTR-ND◆	73.78/M
47	10	30	UNR911DJ0LCT-ND◆	.37	2.77	19.18	UNR911DJ0LTR-ND◆	74.00/M
47	22	60	UNR911EG0LCT-ND◆	.37	2.77	19.18	UNR911EG0LTR-ND◆	73.78/M
47	22	60	UNR911EJ0LCT-ND	.37	2.77	19.18	UNR911EJ0LTR-ND	74.00/M
4.7	10	30	UNR911FG0LCT-ND◆	.37	2.77	19.18	UNR911FG0LTR-ND◆	73.78/M
4.7	10	30	UNR911FJ0LCT-ND	.37	2.77	19.18	UNR911FJ0LTR-ND	74.00/M
2.2	10	30	UNR911HG0LCT-ND◆	.37	2.77	19.18	UNR911HG0LTR-ND◆	73.78/M
2.2	10	30	UNR911HJ0LCT-ND	.37	2.77	19.18	UNR911HJ0LTR-ND	74.00/M
4.7	4.7	20	UNR911LG0LCT-ND◆	.37	2.77	19.18	UNR911LG0LTR-ND◆	73.78/M
4.7	4.7	20	UNR911LJ0LCT-ND	.37	2.77	19.18	UNR911LJ0LTR-ND	74.00/M
2.2	47	80	UNR911MJ0LCT-ND	.37	2.77	19.18	UNR911MJ0LTR-ND	74.00/M
4.7	47	80	UNR911NG0LCT-ND◆	.37	2.77	19.18	UNR911NG0LTR-ND◆	73.78/M
4.7	47	80	UNR911NJ0LCT-ND	.37	2.77	19.18	—	—
22	47	80	UNR911TG0LCT-ND◆	.37	2.77	19.18	UNR911TG0LTR-ND◆	73.78/M
22	47	80	UNR911TJ0LCT-ND	.40	2.99	20.72	UNR911TJ0LTR-ND	80.00/M
NPN								
47	—	160	UNR9210G0LCT-ND◆	.37	2.77	19.18	UNR9210G0LTR-ND◆	73.78/M
10	10	35	UNR9211G0LCT-ND◆	.37	2.77	19.18	UNR9211G0LTR-ND◆	73.78/M
10	10	35	UNR9211J0LCT-ND◆	.40	2.99	20.72	UNR9211J0LTR-ND◆	80.00/M
22	22	60	UNR9212G0LCT-ND◆	.37	2.77	19.18	UNR9212G0LTR-ND◆	73.78/M
22	22	60	UNR9212J0LCT-ND	.40	2.99	20.72	—	—
47	47	80	UNR9213J0LCT-ND	.40	2.99	20.72	—	—
10	47	80	UNR9214G0LCT-ND◆	.37	2.77	19.18	—	—
10	47	80	DRC9114Y0LCT-ND◆ ***NEW!***	.37	2.77	19.18	DRC9114Y0LTR-ND◆ ***NEW!***	73.78/M
10	47	80	UNR9214J0LCT-ND	.40	2.99	20.72	—	—
10	—	160	UNR9215G0LCT-ND◆	.37	2.77	19.18	UNR9215G0LTR-ND◆	73.78/M
10	—	160	UNR9215J0LCT-ND	.40	2.99	20.72	—	—
4.7	—	160	UNR9216G0LCT-ND◆	.37	2.77	19.18	UNR9216G0LTR-ND◆	73.78/M
4.7	—	160	UNR9216J0LCT-ND	.40	2.99	20.72	UNR9216J0LTR-ND	80.00/M
22	—	160	UNR9217G0LCT-ND◆	.37	2.77	19.18	UNR9217G0LTR-ND◆	73.78/M
22	—	160	UNR9217J0LCT-ND	.40	2.99	20.72	UNR9217J0LTR-ND	80.00/M
.51	5.1	20	UNR9218G0LCT-ND◆	.37	2.77	19.18	UNR9218G0LTR-ND◆	73.78/M
.51	5.1	20	UNR9218J0LCT-ND	.40	2.99	20.72	UNR9218J0LTR-ND	80.00/M
1	10	30	UNR9219G0LCT-ND◆	.37	2.77	19.18	UNR9219G0LTR-ND◆	73.78/M
1	10	30	UNR9219J0LCT-ND	.40	2.99	20.72	UNR9219J0LTR-ND	80.00/M
47	—	160	UNR9210J0LCT-ND	.40	2.99	20.72	UNR9210J0LTR-ND	80.00/M
100	100	80	UNR921AG0LCT-ND◆	.37	2.77	19.18	UNR921AG0LTR-ND◆	73.78/M
100	100	80	UNR921AJ0LCT-ND	.37	2.77	19.18	UNR921AJ0LTR-ND	74.00/M
100	—	160	UNR921BG0LCT-ND◆	.37	2.77	19.18	UNR921BG0LTR-ND◆	73.78/M
100	100	160	UNR921BJ0LCT-ND	.37	2.77	19.18	UNR921BJ0LTR-ND	74.00/M
—	47	80	UNR921CG0LCT-ND◆	.37	2.77	19.18	UNR921CG0LTR-ND◆	73.78/M
—	47	80	UNR921CJ0LCT-ND◆	.37	2.77	19.18	UNR921CJ0LTR-ND◆	74.00/M
47	10	30	UNR921DG0LCT-ND◆	.37	2.77	19.18	UNR921DG0LTR-ND◆	73.78/M
47	10	30	UNR921DJ0LCT-ND	.37	2.77	19.18	UNR921DJ0LTR-ND	74.00/M
47	22	60	UNR921EJ0LCT-ND	.37	2.77	19.18	UNR921EJ0LTR-ND	74.00/M
4.7	10	30	UNR921FG0LCT-ND◆	.37	2.77	19.18	UNR921FG0LTR-ND◆	73.78/M
4.7	10	30	UNR921FJ0LCT-ND	.37	2.77	19.18	UNR921FJ0LTR-ND	74.00/M
10	4.7	20	UNR921KG0LCT-ND◆	.37	2.77	19.18	UNR921KG0LTR-ND◆	73.78/M
10	4.7	20	UNR921KJ0LCT-ND◆	.37	2.77	19.18	UNR921KJ0LTR-ND◆	74.00/M
4.7	4.7	20	UNR921LJ0LCT-ND	.37	2.77	19.18	UNR921LJ0LTR-ND	74.00/M
2.2	47	80	UNR921MG0LCT-ND◆	.37	2.77	19.18	UNR921MG0LTR-ND◆	73.78/M
2.2	47	80	UNR921MJ0LCT-ND	.40	2.99	20.72	UNR921MJ0LTR-ND	80.00/M
4.7	47	80	UNR921NG0LCT-ND◆	.37	2.77	19.18	UNR921NG0LTR-ND◆	73.78/M
4.7	47	6	UNR921NJ0LCT-ND	.37	2.77	19.18	UNR921NJ0LTR-ND	74.00/M
22	47	80	UNR921TG0LCT-ND◆	.37	2.77	19.18	UNR921TG0LTR-ND◆	73.78/M
22	47	80	UNR921TJ0LCT-ND	.40	2.99	20.72	UNR921TJ0LTR-ND	80.00/M
2.2	2.2	6	UNR921VJ0LCT-ND	.37	2.77	19.18	UNR921VJ0LTR-ND	74.00/M

◆ ***RoHS Compliant***

SS-Mini Type

Digi-Reel®

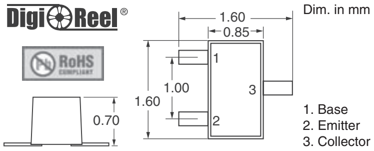

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 125mW**
IC = 80mA/-80mA **EIAJ: SC-81**

Resistance Value		hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
RB KΩ	RBE KΩ			1	10	100		
PNP								
47	—	160	UNR91A0G0LCT-ND	.37	2.77	19.18	UNR91A0G0LTR-ND	73.78/M
10	10	35	UNR91A1G0LCT-ND	.37	2.77	19.18	UNR91A1G0LTR-ND	73.78/M
22	22	60	UNR91A2G0LCT-ND	.37	2.77	19.18	UNR91A2G0LTR-ND	73.78/M
47	47	80	UNR91A3G0LCT-ND	.37	2.77	19.18	UNR91A3G0LTR-ND	73.78/M
10	47	80	UNR91A4G0LCT-ND	.37	2.77	19.18	UNR91A4G0LTR-ND	73.78/M
10	—	160	UNR91A5G0LCT-ND	.37	2.77	19.18	UNR91A5G0LTR-ND	73.78/M
4.7	—	160	UNR91A6G0LCT-ND	.37	2.77	19.18	UNR91A6G0LTR-ND	73.78/M
47	22	60	UNR91AEG0LCT-ND	.37	2.77	19.18	UNR91AEG0LTR-ND	73.78/M
4.7	4.7	20	UNR91ALG0LCT-ND	.37	2.77	19.18	UNR91ALG0LTR-ND	73.78/M
2.2	47	80	UNR91AMG0LCT-ND	.37	2.77	19.18	UNR91AMG0LTR-ND	73.78/M
4.7	47	80	UNR91ANG0LCT-ND	.37	2.77	19.18	UNR91ANG0LTR-ND	73.78/M
NPN								
47	—	160	UNR92A0G0LCT-ND	.37	2.77	19.18	UNR92A0G0LTR-ND	73.78/M
10	10	35	UNR92A1G0LCT-ND	.37	2.77	19.18	UNR92A1G0LTR-ND	73.78/M
22	22	60	UNR92A2G0LCT-ND	.37	2.77	19.18	UNR92A2G0LTR-ND	73.78/M
47	47	80	UNR92A3G0LCT-ND	.37	2.77	19.18	UNR92A3G0LTR-ND	73.78/M
10	47	80	UNR92A4G0LCT-ND	.37	2.77	19.18	UNR92A4G0LTR-ND	73.78/M
10	—	160	UNR92A5G0LCT-ND	.37	2.77	19.18	UNR92A5G0LTR-ND	73.78/M
4.7	—	160	UNR92A6G0LCT-ND	.37	2.77	19.18	UNR92A6G0LTR-ND	73.78/M
0.51	5.1	20	UNR92A8G0LCT-ND	.37	2.77	19.18	UNR92A8G0LTR-ND	73.78/M
1	10	30	UNR92A9G0LCT-ND	.37	2.77	19.18	UNR92A9G0LTR-ND	73.78/M
47	22	60	UNR92AEG0LCT-ND	.37	2.77	19.18	UNR92AEG0LTR-ND	73.78/M
4.7	10	30	UNR92AFG0LCT-ND	.37	2.77	19.18	UNR92AFG0LTR-ND	73.78/M
4.7	4.7	20	UNR92ALG0LCT-ND	.37	2.77	19.18	UNR92ALG0LTR-ND	73.78/M
2.2	47	80	UNR92AMG0LCT-ND	.37	2.77	19.18	UNR92AMG0LTR-ND	73.78/M
4.7	47	80	UNR92ANG0LCT-ND	.37	2.77	19.18	UNR92ANG0LTR-ND	73.78/M
2.2	2.2	6	UNR92AVG0LCT-ND	.37	2.77	19.18	UNR92AVG0LTR-ND	73.78/M

(Continued)

Panasonic PNP/NPN Transistors *(Cont.)*

1006 Leadless Type

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V

IC = 80mA/-80mA

PT = 100mW

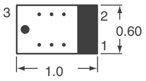

Dimensions in mm

1. Base
2. Emitter
3. Collector

Resistance Value RB KΩ	 RBE KΩ	hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	 10	 100	Digi-Key Part No.	Tape & Reel Pricing 10,000
				PNP				
47	47	80	UNRF1A300ACT-ND	.46	3.80	30.38	—	—
10	47	80	UNRF1A400ACT-ND	.46	3.80	30.38	UNRF1A400ATR-ND	106.00/M
				NPN				
4.7	47	80	UNRF2AN00ACT-ND	.46	3.80	30.38	—	—
47	47	80	UNRF2A300ACT-ND	.46	3.80	30.38	—	—

1008 Mold Leadless Type

Surface Mount with built-in-resistors for preset gains

VCEO = 50V/-50V

IC = 100mA/-100mA

PT = 150mW

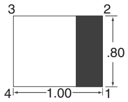

Dimensions in mm

1. Base
2. Emitter
3. Collector
4. Collector

Resistance Value RB KΩ	 RBE KΩ	hFE min Vce= 10V IC= 5mA	Digi-Key Part No.	Cut Tape Pricing 1	 10	 100	Digi-Key Part No.	Tape & Reel Pricing 10,000
				PNP				
10	10	35	UNRL11100ACT-ND	.69	5.21	39.06	UNRL11100ATR-ND	217.00/M
47	47	80	UNRL11300ACT-ND	.69	5.21	39.06	UNRL11300ATR-ND	217.00/M
10	—	160	UNRL11500ACT-ND	.69	5.21	39.06	UNRL11500ATR-ND	217.00/M
				NPN				
10	10	35	UNRL21100ACT-ND	.69	5.21	39.06	UNRL21100ATR-ND	217.00/M
47	47	80	UNRL21300ACT-ND	.69	5.21	39.06	UNRL21300ATR-ND	217.00/M
10	—	160	UNRL21500ACT-ND	.69	5.21	39.06	UNRL21500ATR-ND	217.00/M

Transistors

Dimensions in mm

Mini Type (3-Pin)

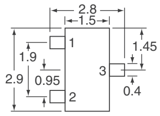

1. Base
2. Emitter
3. Collector

S-Mini Type (3-Pin)

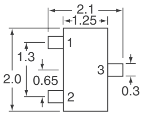

1. Base
2. Emitter
3. Collector

SS-Mini Flat (3-Pin)

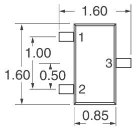

1. Base
2. Emitter
3. Collector

SSS Mini (3-Pin)

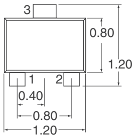

1. Base
2. Emitter
3. Collector

1006 Leadless Type

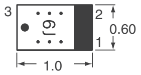

1. Base
2. Emitter
3. Collector

Mini Power Type

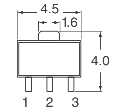

A
1. Base
2. Collector
3. Emitter

B
1. Emitter
2. Collector
3. Base

U-G2 Type

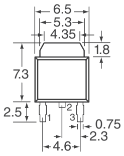

1. Base
2. Collector
3. Emitter

Application	Package	VCEO (V)	IC (mA)	hFE Min.	 Max.	Digi-Key Part No.	Cut Tape Pricing 1	 10	 100	Digi-Key Part No.	Tape and Reel Qty.	 Pricing
						PNP Type						
RF Amp	Mini 3P	20	30	70	140	2SA10220BLCT-ND	.38	3.09	21.20	—	—	—
High Freq. Amp	Mini 3P	20	30	110	220	2SA10220CLCT-ND	.41	3.34	22.89	—	—	—
AF Low Noise Amp	Mini 3P	35	50	260	520	2SA10340SLCT-ND◆	.59	4.72	35.39	2SA10340SLTR-ND◆	3,000	157.00/M
AF Low Noise Amp	Mini 3P	55	50	260	520	2SA10350SLCT-ND◆	.59	4.72	35.39	—	—	—
High Speed Switching	Mini 3P	15	50	90	150	2SA17380RLCT-ND◆	.62	4.67	35.04	—	—	—
DC-DC Converter	Mini 3P	15	2,500	200	560	2SA201000LCT-ND	.50	3.76	28.22	—	—	—
DC-DC Converter	Mini 3P	20	1,500	160	560	2SA204600LCT-ND◆	.48	3.63	27.22	2SA204600LTR-ND◆	3,000	157.00/M
General Amp	Mini 3P	45	100	160	260	2SB0709AQLCT-ND◆	.30	2.25	16.25	—	—	—
General Amp	Mini 3P	45	100	210	340	2SB0709ARLCT-ND◆	.30	2.25	16.25	2SB0709ARLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	50	100	210	340	DSA2001R0LCT-ND◆ ***NEW!***	.27	2.01	14.51	DSA2001R0LTR-ND◆ ***NEW!***	3,000	52.46/M
General Amp	Mini 3P	45	100	290	460	2SB0709ASLCT-ND◆	.30	2.25	16.25	2SB0709ASLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	25	500	85	340	2SB071000LCT-ND	.41	3.26	24.46	2SB071000LTR-ND	3,000	108.00/M
General Amp	Mini 3P	25	500	85	170	2SB07100QLCT-ND	.47	3.90	31.22	2SB07100QLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	120	240	2SB07100RLCT-ND	.47	3.90	31.22	2SB07100RLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	170	340	2SB07100SLCT-ND	.47	3.90	31.22	2SB07100SLTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	120	340	DSA200200LCT-ND◆ ***NEW!***	.42	3.48	27.87	DSA200200LTR-ND◆ ***NEW!***	3,000	111.48/M
General Amp	Mini 3P	50	500	85	170	2SB0710AQLCT-ND◆	.47	3.90	31.22	2SB0710AQLTR-ND◆	3,000	125.00/M
General Amp	Mini 3P	50	500	120	240	2SB0710ARLCT-ND◆	.47	3.90	31.22	2SB0710ARLTR-ND◆	3,000	125.00/M
General Amp	Mini 3P	50	500	120	240	DSA2002R0LCT-ND◆ ***NEW!***	.42	3.48	27.87	DSA2002R0LTR-ND◆ ***NEW!***	3,000	111.48/M
General Amp	Mini 3P	50	500	170	340	2SB0710ASLCT-ND	.47	3.90	31.22	2SB0710ASLTR-ND	3,000	125.00/M
AF Output Amp	Mini 3P	20	500	130	220	2SB07790RLCT-ND◆	.72	5.42	40.68	—	—	—
Low Noise Amp	Mini 3P	185	50	130	220	2SB0792ARLCT-ND◆	.41	3.04	21.08	2SB0792ARLTR-ND◆	3,000	73.00/M
Low Noise Amp	Mini 3P	185	50	185	330	2SB0792ASLCT-ND◆	.41	3.04	21.08	—	—	—
Low Noise Amp	Mini 3P	150	50	185	330	2SB07920SLCT-ND◆	.39	2.93	20.33	2SB07920SLTR-ND◆	3,000	78.00/M
Low-Volt. Amp	Mini 3P	10	500	130	220	2SB09700RLCT-ND	.54	4.07	30.51	2SB09700RLTR-ND	3,000	176.00/M
Low-Volt. Amp	Mini 3P	10	500	180	350	2SB09700SLCT-ND	.54	4.07	30.51	2SB09700SLTR-ND	3,000	176.00/M
General Amp	Mini 3P	20	500	160	560	2SB169300LCT-ND◆	.58	4.37	32.75	2SB169300LTR-ND◆	3,000	189.00/M
General Amp	Mini 3P	50	100	210	460	DSA200100LCT-ND◆ ***NEW!***	.27	2.01	14.51	DSA200100LTR-ND◆ ***NEW!***	3,000	52.46/M
RF Amp	S-Mini 3P	20	30	110	220	2SA15320CLCT-ND	.49	3.68	27.60	—	—	—
High Speed Switch	S-Mini 3P	15	50	90	150	2SA17390RLCT-ND◆	.50	3.77	28.27	—	—	—
RF Amp	S-Mini 3P	50	50	250	500	2SA17480RLCT-ND◆	.54	4.35	32.64	2SA17480RLTR-ND◆	3,000	145.00/M
RF Amp	S-Mini 3P	50	50	200	500	2SA1748GRLCT-ND◆	.54	4.35	32.63	2SA1748GRLTR-ND◆	3,000	144.68/M
AF High Volt Amp	S-Mini 3P	120	20	260	520	2SA20090SLCT-ND◆	.41	3.31	24.82	2SA20090SLTR-ND◆	3,000	110.00/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218A0LCT-ND	.36	2.72	18.82	—	—	—
General Amp	S-Mini 3P	45	100	160	260	2SB1218AQLCT-ND◆	.36	2.72	18.82	2SB1218AQLTR-ND◆	3,000	72.00/M
General Amp	S-Mini 3P	45	100	210	340	2SB1218ARLCT-ND	.36	2.72	18.82	2SB1218ARLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	290	460	2SB1218ASLCT-ND	.36	2.72	18.82	—	—	—
General Amp	S-Mini 3P	45	100	160	460	2SB1218G0LCT-ND◆	.32	2.42	16.81	2SB1218G0LTR-ND◆	3,000	64.64/M
General Amp	S-Mini 3P	45	100	210	340	2SB1218GRLCT-ND◆	.32	2.42	16.81	2SB1218GRLTR-ND◆	3,000	64.64/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218GQLCT-ND◆	.32	2.42	16.81	2SB1218GQLTR-ND◆	3,000	64.64/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218GSLCT-ND◆	.32	2.42	16.81	2SB1218GSLTR-ND◆	3,000	64.64/M
General Amp	S-Mini 3P	50	2,000	120	240	2SB12190RLCT-ND	.43	3.45	25.86	—	—	—
General Amp	S-Mini 3P	50	500	85	340	2SB1219ASLCT-ND◆	.43	3.45	25.86	—	—	—
General Amp	S-Mini 3P	25	500	85	340	2SB1219GSLCT-ND◆	.46	3.85	30.79	2SB1219GSLTR-ND◆	3,000	123.16/M
General Amp	S-Mini 3P	50	500	170	340	DSA5002S0LCT-ND◆ ***NEW!***	.46	3.85	30.79	DSA5002S0LTR-ND◆ ***NEW!***	3,000	123.16/M
AF High Volt Amp	S-Mini 3P	150	50	130	220	2SB12200RLCT-ND◆	.58	4.66	34.94	2SB12200RLTR-ND◆	3,000	155.00/M
AF High Volt Amp	S-Mini 3P	150	50	130	450	2SB1220GRLCT-ND◆	.58	4.66	34.93	2SB1220GRLTR-ND◆	3,000	154.86/M
AF Amp	S-Mini 3P	10	1,000	130	350	2SB167900LCT-ND◆	.59	4.72	35.41	—	—	—
AF Amp	S-Mini 3P	10	500	130	350	2SB1679G0LCT-ND◆	.55	4.37	32.79	—	—	—
DC-DC Converter	S-Mini 3P	20	1,000	160	560	2SA202800LCT-ND◆	.62	4.62	34.63	2SA202800LTR-ND◆	3,000	200.00/M
DC/DC Converter	S-Mini 3P	20	1,000	160	560	2SA2028G0LCT-ND◆	.57	4.27	32.06	2SA2028G0LTR-ND◆	3,000	185.24/M
RF Amp	SS-Mini 3P	20	30	110	220	2SA1790JCLCT-ND◆	.46	3.68	27.58	2SA1790JCLTR-ND◆	3,000	122.00/M
RF Amp	SS-Mini 3P	20	30	70	220	2SA1790GCLCT-ND◆	.46	3.68	27.58	2SA1790GCLTR-ND◆	3,000	122.27/M
RF Amp	SS-Mini 3P	50	50	250	500	2SA1791JRLCT-ND◆	.55	4.41	33.10	2SA1791JRLTR-ND◆	3,000	147.00/M

† VCBO ◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Application	Package	VCEO (V)	IC (mA)	hFE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				Min.	Max.		1	10	100		Qty.	Pricing
RF Amp	SS-Mini 3P	50	50	250	500	2SA1791GRLCT-ND◆	.55	4.41	33.10	2SA1791GRLTR-ND◆	3,000	146.73/M
High Speed Switch	SS-Mini 3P	15	50	90	150	2SA1806JRLCT-ND◆	.49	3.68	27.58	2SA1806JRLTR-ND◆	3,000	159.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SA2161J0LCT-ND◆	.46	3.65	27.34	2SA2161J0LTR-ND◆	3,000	121.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SA2161G0LCT-ND◆	.46	3.65	27.34	2SA2161G0LTR-ND◆	3,000	121.21/M
General Amp	SS-Mini 3P	50	100	160	460	2SA2174G0LCT-ND◆	.39	2.94	20.39	2SA2174G0LTR-ND◆	3,000	78.42/M
General Amp	SS-Mini 3P	150	50	130	450	2SB1463GRLCT-ND◆	.66	4.96	37.23	2SB1463GRLTR-ND◆	3,000	215.10/M
AF High Volt Amp	SS-Mini 3P	100	20	200	700	2SB1722J0LCT-ND◆	.58	4.66	34.94	2SB1722J0LTR-ND◆	3,000	155.00/M
General Amp	SSS Mini 3P	50	100	180	390	2SA207800LCT-ND◆	.37	2.92	20.53	—	—	—
General Amp	SSS-Mini 3P	50	100	180	390	2SA2078G0LCT-ND◆	.33	2.60	18.33	—	—	—
General Amp	SSS Mini 3P	12	500	270	680	2SA216200LCT-ND◆	.41	3.25	24.36	2SA216200LTR-ND◆	10,000	102.00/M
General Amp	SSS-Mini 3P	12	500	270	680	2SA2162G0LCT-ND◆	.41	3.25	24.36	2SA2162G0LTR-ND◆	10,000	101.50/M
RF Amp	SSS Mini 3P	20	30	70	220	2SA216400LCT-ND◆	.52	3.90	29.26	—	—	—
RF Amp	1006 Leadless	20	30	70	220	2SA216300ACT-ND◆	.62	4.67	35.04	—	—	—
General Amp	1006 Leadless	45	100	180	390	2SA207900ACT-ND◆	.37	2.98	20.41	—	—	—
AF Output Amp	Mini Pwr. (A)	80	1,000	120	340	2SA1890GRLCT-ND◆	.53	4.00	30.01	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	50	1,000	120	240	2SB0766ARLCT-ND◆	.52	3.87	29.02	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	50	1,000	120	240	2SB0766GRLCT-ND◆	.60	4.78	35.83	—	—	—
AF Output Amp	Mini Pwr. (B)	25	1,000	120	240	2SB07660RLCT-ND◆	.60	4.78	35.83	2SB07660RLTR-ND◆	1,000	167.00
AF Output Amp	Mini Pwr. (A)	80	500	90	155	2SB07670QLCT-ND◆	.53	3.94	29.55	2SB07670QLTR-ND◆	1,000	175.00
Low Frequency Amp	Mini Pwr. (A)	80	500	90	220	DSA710100LCT-ND◆ ***NEW!***	.49	3.65	27.36	DSA710100LTR-ND◆ ***NEW!***	1,000	161.70
Low Frequency Amp	Mini Pwr. (A)	80	500	90	155	DSA7101Q0LCT-ND◆ ***NEW!***	.49	3.65	27.36	DSA7101Q0LTR-ND◆ ***NEW!***	1,000	161.70
AF Output Amp	Mini Pwr. (A)	80	500	130	220	2SB07670RLCT-ND◆	.53	3.94	29.55	2SB07670RLTR-ND◆	1,000	175.00
Low Frequency Amp	Mini Pwr. (A)	80	500	130	220	DSA7101R0LCT-ND◆ ***NEW!***	.49	3.65	27.36	DSA7101R0LTR-ND◆ ***NEW!***	1,000	161.70
AF High Power Driver	Mini Pwr. (B)	100	500	130	220	2SB07890RLCT-ND◆	.71	5.34	40.08	—	—	—
Low Frequency Amp	Mini Pwr. (A)	120	500	90	155	2SB0789AQLCT-ND	.80	5.99	44.89	—	—	—
Low Frequency Amp	Mini Pwr. (A)	120	500	130	220	2SB0789ARLCT-ND◆	.80	5.99	44.89	—	—	—
Low Frequency Amp	Mini Pwr. (A)	100	500	90	220	2SB0789GRLCT-ND◆	.71	5.34	40.08	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	20	1,000	130	280	2SB09560RLCT-ND◆	.51	3.85	28.88	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	20	1,000	130	280	2SB0956GRLCT-ND◆	.59	4.75	35.66	2SB0956GRLTR-ND◆	1,000	166.39
AF Amp	Mini Pwr. (B)	20	4,000	180	315	2SB10730RLCT-ND◆	.54	4.07	30.51	2SB10730RLTR-ND◆	1,000	180.00
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	120	340	2SB14400RLCT-ND	.72	5.42	40.63	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	120	340	2SB1440GRLCT-ND◆	.67	5.02	37.62	—	—	—
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	120	240	DSA7004R0LCT-ND◆ ***NEW!***	.67	5.02	37.62	DSA7004R0LTR-ND◆ ***NEW!***	1,000	222.35
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	170	340	DSA7004S0LCT-ND◆ ***NEW!***	.67	5.02	37.62	DSA7004S0LTR-ND◆ ***NEW!***	1,000	222.35
Low Frequency Output Amp	Mini Pwr. (A)	10	1,500	200	700	2SB158900LCT-ND	.52	3.87	29.02	2SB158900LTR-ND	1,000	172.00
Power Amp	Mini Pwr. (A)	40	1,500	80	160	2SB15990QLCT-ND	.71	5.33	39.94	2SB15990QLTR-ND	1,000	236.00
Power Amp	Mini Pwr. (A)	40	1,500	100	220	2SB15990RLCT-ND	.71	5.33	39.94	2SB15990RLTR-ND	1,000	236.00
AF Power Amp	U-G2	40	1,500	120	220	2SB09680RLCT-ND◆	1.47	12.26	98.06	2SB09680RLTR-ND◆	3,000	637.00/M
NPN Type												
RF Amp	Mini 3P	20	30	70	140	2SC22950BLCT-ND◆	.42	3.37	25.28	—	—	—
RF Amp	Mini 3P	20	15	65	160	2SC24040CLCT-ND	.55	4.37	32.79	2SC24040CLTR-ND	3,000	145.00/M
RF Amp	Mini 3P	20	15	100	260	2SC24040DLCT-ND◆	.55	4.37	32.79	2SC24040DLTR-ND◆	3,000	145.00/M
Low Noise Amp	Mini 3P	35	50	180	360	2SC24050RLCT-ND	.61	4.54	34.06	—	—	—
Low Noise Amp	Mini 3P	55	50	260	520	2SC24060SLCT-ND	.55	4.12	30.87	—	—	—
High Frequency Amp	Mini 3P	20	50	25	250	2SC248000LCT-ND◆	.40	3.19	21.89	2SC248000LTR-ND◆	3,000	103.00/M
RF Amp	Mini 3P	20	30	110	250	2SC27780CLCT-ND◆	.49	3.92	29.42	2SC27780CLTR-ND◆	3,000	130.00/M
RF Amp/Oscillator Mixer	Mini 3P	10	50	110	220	2SC31300QLCT-ND◆	.48	3.63	27.23	2SC31300QLTR-ND◆	3,000	157.00/M
UHF Low-Noise Amp	Mini 3P	10	80	50	300	2SC370400LCT-ND◆	.59	4.42	33.12	2SC370400LTR-ND◆	3,000	191.00/M
UHF Amp	Mini 3P	7	10	50	150	2SC370700LCT-ND◆	.93	7.00	52.49	2SC370700LTR-ND◆	3,000	303.00/M
UHF Low-Noise Amp	Mini 3P	10	80	50	300	2SC382900LCT-ND◆	.56	4.20	31.48	2SC382900LTR-ND◆	3,000	182.00/M
UHF Low Noise Amp	Mini 3P	10	80	110	250	2SC555600LCT-ND◆	.68	5.10	38.27	2SC555600LTR-ND◆	3,000	221.00/M
DC-DC Converter	Mini 3P	15	2,500	400	1,000	2SC559200LCT-ND	.48	3.63	27.22	—	—	—
DC-DC Converter	Mini 3P	15	2,000	200	800	2SC57250SLCT-ND	.58	4.66	34.97	2SC57250SLTR-ND	3,000	155.00/M
DC-DC Converter	Mini 3P	80	1,500	200	—	2SC581300LCT-ND◆	.51	3.80	28.46	—	—	—
General Amp	Mini 3P	50	100	210	460	DSC200100LCT-ND◆ ***NEW!***	.27	2.01	14.51	DSC200100LTR-ND◆ ***NEW!***	3,000	52.46/M
General Amp	Mini 3P	300	70	60	150	2SC58630QLCT-ND◆	.59	4.46	33.44	—	—	—
General Amp	Mini 3P	50	100	210	340	DSC2001R0LCT-ND◆ ***NEW!***	.27	2.01	14.51	DSC2001R0LTR-ND◆ ***NEW!***	3,000	52.46/M
General Amp	Mini 3P	50	100	290	460	DSC2001S0LCT-ND◆ ***NEW!***	.27	2.01	14.51	DSC2001S0LTR-ND◆ ***NEW!***	3,000	52.46/M
General Amp	Mini 3P	50	500	85	170	2SD0602AQLCT-ND	.43	3.61	28.85	—	—	—
General Amp	Mini 3P	50	500	120	240	2SD0602ARLCT-ND◆	.43	3.61	28.85	—	—	—
Low Frequency/Noise Amp	Mini 3P	185	50	130	220	2SD0814ARLCT-ND	.39	2.93	20.33	2SD0814ARLTR-ND	3,000	78.00/M
Low Frequency/Noise Amp	Mini 3P	185	50	185	330	2SD0814ASLCT-ND◆	.39	2.93	20.33	2SD0814ASLTR-ND◆	3,000	78.00/M
AF Amp	Mini 3P	40	50	400	800	2SD10300RLCT-ND◆	.53	4.23	31.72	2SD10300RLTR-ND◆	3,000	141.00/M
Low Frequency Amp/High Gain	Mini 3P	100	20	400	800	2SD11490RLCT-ND◆	.36	2.71	18.78	2SD11490RLTR-ND◆	3,000	72.00/M
Low Frequency Amp/High Gain	Mini 3P	100	20	600	1,200	2SD11490SLCT-ND◆	.36	2.71	18.78	2SD11490SLTR-ND◆	3,000	72.00/M
Low Frequency Amp/High Gain	Mini 3P	100	20	600	1,200	DSC2C01S0LCT-ND◆ ***NEW!***	.32	2.42	16.76	DSC2C01S0LTR-ND◆ ***NEW!***	3,000	64.48/M
Low Volt Amp	Mini 3P	20	500	200	350	2SD13280RLCT-ND	.46	3.83	30.64	2SD13280RLTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	200	800	DSC250100LCT-ND◆ ***NEW!***	.41	3.42	27.36	DSC250100LTR-ND◆ ***NEW!***	3,000	109.43/M
Low Volt Amp	Mini 3P	20	500	300	500	2SD13280SLCT-ND	.46	3.83	30.64	—	—	—
Low Volt Amp	Mini 3P	20	500	400	800	2SD13280TLCT-ND	.46	3.83	30.64	—	—	—
Low VCE (sat)	Mini 3P	20	300	500	1,500	2SD1938FSLCT-ND	.38	2.98	21.01	2SD1938FSLTR-ND	3,000	86.00/M
Low VCE (sat)	Mini 3P	20	300	800	2,500	2SD1938FTLCT-ND◆	.38	2.98	21.01	—	—	—
AF Low Noise Amp	S-Mini 3P	35	50	180	360	2SC39290RLCT-ND◆	.56	4.47	33.56	—	—	—
AF Low Noise Amp	S-Mini 3P	55	50	260	520	2SC3929ASLCT-ND◆	.56	4.47	33.56	2SC3929ASLTR-ND◆	3,000	149.00/M
RF Amp	S-Mini 3P	20	30	110	220	2SC39300CLCT-ND	.53	3.97	29.81	—	—	—
RF Amp	S-Mini 3P	20	15	65	160	2SC39310CLCT-ND	.52	3.93	29.45	—	—	—
RF Amp	S-Mini 3P	20	15	65	260	2SC3931GCLCT-ND◆	.48	3.64	27.27	—	—	—
RF Amp/Oscillator/Mixer	S-Mini 3P	20	50	25	250	2SC39320SLCT-ND◆	.42	3.50	28.04	—	—	—
High Frequency Amp	S-Mini 3P	20	50	25	250	2SC39320TLCT-ND	.39	3.14	23.55	—	—	—
High Frequency Amp	S-Mini 3P	20	50	25	250	2SC3932GSLCT-ND◆	.42	3.50	28.03	—	—	—
High Frequency Amp	S-Mini 3P	20	50	25	250	2SC3932GTLCT-ND◆	.42	3.50	28.03	2SC3932GTLTR-ND◆	3,000	112.13/M
Wide Area LN Amp	S-Mini 3P	12	30	40	—	2SC393400LCT-ND◆	.58	4.32	32.41	—	—	—
Wide Area LN Amp	S-Mini 3P	12	30	40	—	2SC3934G0LCT-ND◆	.58	4.32	32.40	2SC3934G0LTR-ND◆	3,000	187.23/M
RF Amp	S-Mini 3P	10	50	75	130	2SC39350PLCT-ND	.74	5.56	41.67	2SC39350PLTR-ND	3,000	241.00/M
RF Amp, Oscillator, Mixer	S-Mini 3P	10	50	110	220	2SC39350QLCT-ND	.69	5.14	38.58	—	—	—
RF Amp, Oscillator, Mixer	S-Mini 3P	10	50	75	220	2SC3935GQLCT-ND◆	.69	5.14	38.58	2SC3935GQLTR-ND◆	3,000	222.90/M
RF Amp	S-Mini 3P	20	30	110	250	2SC39360CLCT-ND◆	.39	3.06	21.57	2SC39360CLTR-ND◆	3,000	88.00/M
UHF Low Noise Amp	S-Mini 3P	10	80	50	300	2SC393700LCT-ND◆	.85	7.12	57.00	2SC393700LTR-ND◆	3,000	370.00/M
UHF Low Noise Amp	S-Mini 3P	10	80	50	300	2SC3937G0LCT-ND◆	.85	7.12	56.99	2SC3937G0LTR-ND◆	3,000	370.46/M
High Speed Switching	S-Mini 3P	40†	100	60	120	2SC39380QLCT-ND	.49	3.69	27.67	—	—	—
High Speed Switching	S-Mini 3P	40†	100	90	200	2SC39380RLCT-ND	.49	3.69	27.67	—	—	—
High Speed Switching	S-Mini 3P	40	100	60	200	2SC3938GQLCT-ND◆	.49	3.69	27.66	—	—	—
UHF Amp	S-Mini 3P	7	10	50	200	2SC441000LCT-ND◆	.77	6.40	51.18	2SC441000LTR-ND◆	3,000	333.00/M
RF Amp	S-Mini 3P	50	50	250	500	2SC45620RLCT-ND◆	.66	4.92	36.89	2SC45620RLTR-ND◆	3,000	213.00/M
RF Amp	S-Mini 3P	50	50	200	500	2SC4562GRLCT-ND◆	.66	4.92	36.88	2SC4562GRLTR-ND◆	3,000	213.11/M
UHF Low Noise Amp	S-Mini 3P	10	80	80	130	2SC48350RLCT-ND◆	.62	4.64	34.82	2SC48350RLTR-ND◆	3,000	201.00/M

† VCBO ◆ ***RoHS Compliant***

(Continued)

Application	Package	VCEO (V)	IC (mA)	hFE Min.	hFE Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
High Frequency Amp	S-Mini 3P	8	50	100	350	2SC563200LCT-ND	.42	3.33	25.01	2SC563200LTR-ND	3,000	111.00/M
High Frequency Amp	S-Mini 3P	8	50	100	350	2SC5632G0LCT-ND◆	.46	3.86	30.88	2SC5632G0LTR-ND◆	3,000	123.51/M
DC-DC Converter	S-Mini 3P	20	1,000	160	560	2SC565400LCT-ND◆	.51	4.04	30.34	2SC565400LTR-ND◆	3,000	134.00/M
DC/DC Converter	S-Mini 3P	20	1,000	160	560	2SC5654G0LCT-ND◆	.51	4.04	30.34	2SC5654G0LTR-ND◆	3,000	134.49/M
General Amp	S-Mini 3P	50	100	160	260	2SD1819AQLCT-ND	.45	3.53	24.84	2SD1819AQLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	210	340	2SD1819ARLCT-ND	.45	3.53	24.84	—	—	—
General Amp	S-Mini 3P	50	100	290	460	2SD1819ASLCT-ND◆	.45	3.53	24.84	2SD1819ASLTR-ND◆	3,000	96.00/M
General Amp	S-Mini 3P	50	100	160	460	2SD1819G0LCT-ND◆	.40	3.15	22.18	2SD1819G0LTR-ND◆	3,000	90.74/M
General Amp	S-Mini 3P	50	100	210	460	DSC500100LCT-ND◆ ***NEW!***	.40	3.15	22.18	DSC500100LTR-ND◆ ***NEW!***	3,000	90.72/M
General Amp	S-Mini 3P	50	100	210	340	2SD1819GRLCT-ND◆	.40	3.15	22.18	2SD1819GRLTR-ND◆	3,000	90.74/M
General Amp	S-Mini 3P	50	100	210	340	DSC5001R0LCT-ND◆ ***NEW!***	.40	3.15	22.18	DSC5001R0LTR-ND◆ ***NEW!***	3,000	90.74/M
General Amp	S-Mini 3P	50	100	290	460	2SD1819GSLCT-ND◆	.40	3.15	22.18	2SD1819GSLTR-ND◆	3,000	90.74/M
General Amp	S-Mini 3P	25	500	85	340	2SD1820CT-ND◆	.45	3.56	26.73	2SD1820TR-ND◆	3,000	113.43/M
General Amp	S-Mini 3P	25	500	85	340	2SD1820G0LCT-ND◆	.46	3.81	30.45	2SD1820G0LTR-ND◆	3,000	121.81/M
General Amp	S-Mini 3P	50	500	120	240	DSC5002R0LCT-ND◆ ***NEW!***	.46	3.81	30.45	DSC5002R0LTR-ND◆ ***NEW!***	3,000	121.81/M
General Amp	S-Mini 3P	50	500	170	340	DSC5002S0LCT-ND◆ ***NEW!***	.46	3.81	30.45	DSC5002S0LTR-ND◆ ***NEW!***	3,000	121.81/M
HV Low Noise Amp	S-Mini 3P	150	50	130	220	2SD18210RLCT-ND◆	.48	3.80	28.50	—	—	—
AF Amp	S-Mini 3P	40	50	400	800	2SD18230RLCT-ND◆	.41	3.30	22.62	2SD18230RLTR-ND◆	3,000	107.00/M
Low Frequency Amp/High Gain	S-Mini 3P	100	20	400	800	2SD18240RLCT-ND	.37	2.78	19.26	—	—	—
Low Frequency Amp/High Gain	S-Mini 3P	100	20	600	1,200	2SD18240SLCT-ND	.37	2.78	19.26	—	—	—
Low Frequency Amp/High Gain	S-Mini 3P	100	20	400	1,200	2SD1824GRLCT-ND◆	.33	2.48	17.19	—	—	—
Low Frequency Amp/High Gain	S-Mini 3P	100	20	400	1,200	2SD1824GSLCT-ND◆	.33	2.48	17.19	—	—	—
AF Output Amp	S-Mini 3P	20	300	500	1,500	2SD19790SLCT-ND◆	.55	4.10	30.74	—	—	—
AF Output Amp	S-Mini 3P	20	300	500	2,500	2SD1979GSLCT-ND◆	.55	4.10	30.74	2SD1979GSLTR-ND◆	3,000	177.60/M
General Amp	SS-Mini 3P	50	100	160	460	2SA2174J0LCT-ND◆	.39	2.94	20.39	2SA2174J0LTR-ND◆	3,000	78.00/M
RF Amp	SS-Mini 3P	20	30	110	220	2SC4626JCLCT-ND◆	.51	4.11	30.80	2SC4626JCLTR-ND◆	3,000	137.00/M
RF Amp	SS-Mini 3P	20	30	110	250	2SC4655JCLCT-ND◆	.40	3.22	22.06	—	—	—
High Speed Switch	SS-Mini 3P	40†	100	60	200	2SC4691J0LCT-ND◆	.59	4.72	35.39	2SC4691J0LTR-ND◆	3,000	157.00/M
UHF Low Noise Amp	SS-Mini 3P	10	80	50	300	2SC4808J0LCT-ND◆	.62	4.64	34.82	2SC4808J0LTR-ND◆	3,000	201.00/M
UHF Low Noise Amp	SS-Mini 3P	10	80	50	300	2SC4808G0LCT-ND◆	.62	4.64	34.82	2SC4808G0LTR-ND◆	3,000	201.17/M
RF Amp/Oscillator/Mixer	SS-Mini 3P	10	50	75	400	2SC4809J0LCT-ND◆	.51	4.05	30.37	2SC4809J0LTR-ND◆	3,000	135.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SC6037J0LCT-ND◆	.46	3.65	27.34	2SC6037J0LTR-ND◆	3,000	121.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SC6054J0LCT-ND◆	.61	4.60	34.47	2SC6054J0LTR-ND◆	3,000	199.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SC6054G0LCT-ND◆	.61	4.60	34.47	2SC6054G0LTR-ND◆	3,000	199.18/M
General Amp	SS-Mini 3P	50	100	210	460	DSC900100LCT-ND◆ ***NEW!***	.38	2.85	19.77	DSC900100LTR-ND◆ ***NEW!***	3,000	76.04/M
General Amp	SS-Mini 3P	50	100	210	340	DSC9001R0LCT-ND◆ ***NEW!***	.38	2.85	19.77	DSC9001R0LTR-ND◆ ***NEW!***	3,000	76.04/M
General Amp	SS-Mini 3P	50	100	290	460	DSC9001S0LCT-ND◆ ***NEW!***	.38	2.85	19.77	DSC9001S0LTR-ND◆ ***NEW!***	3,000	76.04/M
AF Amp	SS-Mini 3P	40	50	600	1,200	2SD2345JSLCT-ND◆	.49	3.68	27.58	—	—	—
AF Amp	SS-Mini 3P	40	50	400	2,000	2SD2345GSLCT-ND◆	.49	3.68	27.58	2SD2345GSLTR-ND◆	3,000	159.34/M
AF Amp	SS-Mini 3P	100	20	400	1,200	2SD2620G0LCT-ND◆	.39	3.14	21.51	2SD2620G0LTR-ND◆	3,000	101.60/M
General Amp	SSS-Mini 3P	50	100	210	460	DSC300100LCT-ND◆ ***NEW!***	.33	2.60	18.33	DSC300100LTR-ND◆ ***NEW!***	10,000	64.58/M
RF Amp/Oscillator/Mixer	SSS-Mini 3P	10	50	75	400	2SC593900LCT-ND◆	.48	3.80	28.50	—	—	—
RF Amp/Oscillator/Mixer	SSS-Mini 3P	10	50	75	400	2SC5939G0LCT-ND◆	.48	3.80	28.50	2SC5939G0LTR-ND◆	10,000	118.75/M
RF Amp/Oscillator/Mixer	SSS-Mini 3P	20	50	25	250	2SC594600LCT-ND◆	.46	3.68	27.58	2SC594600LTR-ND◆	10,000	115.00/M
RF Amp/Oscillator/Mixer	SSS-Mini 3P	20	50	25	250	2SC5946G0LCT-ND◆	.46	3.68	27.58	2SC5946G0LTR-ND◆	10,000	114.92/M
General Amp	SSS-Mini 3P	12	500	270	680	2SC603600LCT-ND◆	.41	3.25	24.36	—	—	—
General Amp	SSS-Mini 3P	12	500	270	680	2SC6036G0LCT-ND◆	.41	3.25	24.36	2SC6036G0LTR-ND◆	10,000	101.52/M
AF Amp	SSS-Mini 3P	100	20	400	1,200	2SD262100LCT-ND◆	.43	3.55	28.36	2SD262100LTR-ND◆	10,000	99.00/M
AF Amp	SSS-Mini 3P	100	20	400	1,200	2SD2621G0LCT-ND◆	.43	3.55	28.36	2SD2621G0LTR-ND◆	10,000	99.26/M
AF Output Amp	Mini Pwr. (B)	25	1,000	120	240	2SD08740RLCT-ND◆	.55	4.37	32.79	—	—	—
AF Output Amp	Mini Pwr. (A)	80	500	130	220	2SD08750RLCT-ND◆	.52	3.92	29.39	—	—	—
AF Output Amp	Mini Pwr. (A)	80	500	185	330	2SD08750SLCT-ND	.52	3.92	29.39	2SD08750SLTR-ND	1,000	174.00
AF Output Amp	Mini Pwr. (A)	80	500	130	330	2SD0875GSLCT-ND◆	.48	3.63	27.22	—	—	—
Low Frequency Amp	Mini Pwr. (A)	120	500	130	220	2SD0968ARLCT-ND◆	.91	6.81	51.05	2SD0968ARLTR-ND◆	1,000	301.78
AF Output Amp	Mini Pwr. (B)	25	3,000	340	600	2SD11190RLCT-ND◆	.80	6.02	45.16	—	—	—
AF Output Amp	Mini Pwr. (A)	25	3,000	230	600	2SD1119GRLCT-ND◆	.80	6.02	45.16	—	—	—
AF Amp	Mini Pwr. (A)	20	1,000	130	210	2SD12800RLCT-ND◆	.77	5.77	43.29	—	—	—
AF Amp	Mini Pwr. (A)	20	1,000	180	280	2SD12800SLCT-ND◆	.77	5.77	43.29	2SD12800SLTR-ND◆	1,000	256.00
AF Amp	Mini Pwr. (B)	80	1,000	8,000	20,000	2SD15110RLCT-ND◆	.88	6.62	49.64	2SD15110RLTR-ND◆	1,000	293.00
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	120	240	DSC7004R0LCT-ND◆ ***NEW!***	.62	4.63	34.73	DSC7004R0LTR-ND◆ ***NEW!***	1,000	205.31
Low Frequency Output Amp	Mini Pwr. (A)	50	2,000	170	340	DSC7004S0LCT-ND◆ ***NEW!***	.62	4.63	34.73	DSC7004S0LTR-ND◆ ***NEW!***	1,000	205.31
Low Frequency Output Amp	Mini Pwr. (A)	20	500	200	800	2SD22100RLCT-ND	.56	4.51	33.86	2SD22100RLTR-ND	1,000	158.00
AF Amp	Mini Pwr. (A)	400	100	30	—	2SD241300LCT-ND◆	.72	5.37	40.25	2SD241300LTR-ND◆	1,000	238.00
AF Amp	Mini Pwr. (A)	400	100	30	—	2SD2413G0LCT-ND◆	.66	4.97	37.26	2SD2413G0LTR-ND◆	1,000	220.26
AF Output Amp	Mini Pwr. (A)	150	1,000	120	240	2SD24590RLCT-ND◆	.92	6.93	51.97	—	—	—
AF Output Amp	Mini Pwr. (A)	150	1,000	170	340	2SD24590SLCT-ND	.92	6.93	51.97	2SD24590SLTR-ND	1,000	307.00
AF Power Amp	U-G2	40	1,500	120	220	2SD12950RLCT-ND◆	1.38	11.49	91.93	2SD12950RLTR-ND◆	3,000	598.00/M

† VCBO ◆ ***RoHS Compliant***

Fast Recovery Diodes

Dim. in mm

Fig. 1

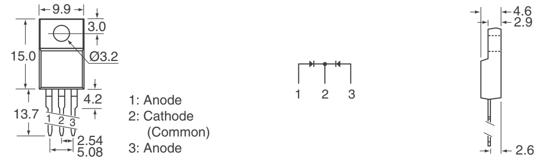

Fig. 2

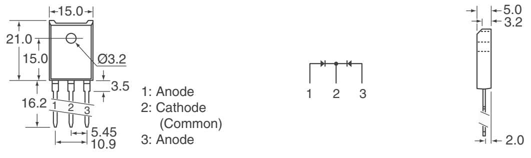

Fig.	Package	IF (AV) (A)	VRRM (V)	IFSM (A)	IRRM (μA)	VF (V)	trr (ns)	Digi-Key Part No.	Pricing 1	10	100
1	TO-220D-A1	5	200	30	20	0.98	30	MA3D649-ND	1.24	10.34	82.74
2	TOP-3F	20	300	150	20	1	50	MA3G655-ND	5.09	40.69	343.36

Schottky Barrier Diodes – Silicon Epitaxial Planar Type

Dimensions in mm

Mini Type (2-pin)

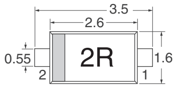

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

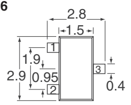

Mini Type (4-pin)

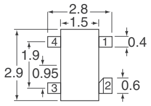

S-Mini Type (2-pin)

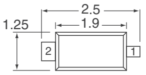

S-Mini Type (3-pin)
EIAJ: SC-70

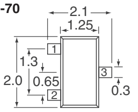

S-Mini Type (4-pin) Mold

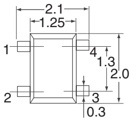

S-Mini Type (6-pin) Mold

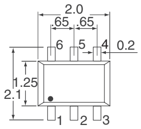

Mini-Power Type (2-pin)

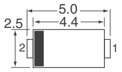

SS-Mini Type (2-pin)

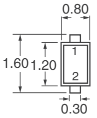

SS-Mini Type (3-pin)

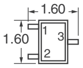

SS-Mini Type (4-pin)

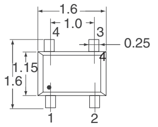

SSS-Mini Type (2-pin)

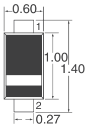

SSS-Mini Type (3-pin)

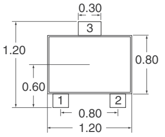

TO-220D

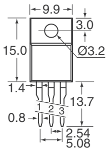

U-G2

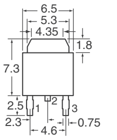

Fig. 1

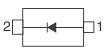

Fig. 2

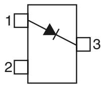

Fig. 3

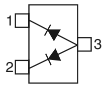

Fig. 4

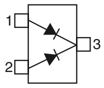

Fig. 5

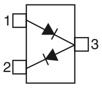

Fig. 6

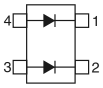

Fig. 7

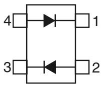

Fig. 8

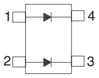

Fig. 9

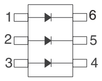

Fig. 10

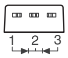

Fig. 11

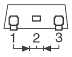

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				(V)	@mA		1	10	100		Qty.	Pricing
Mini Type 2-Pin — RoHS Compliant												
1	Single	15	1,000	0.40	1,000	MA2YD2100LCT-ND	.50	3.76	28.22	MA2YD2100LTR-ND	3,000	163.00/M
	Single	25	1,000	0.42	500	MA2YD2300LCT-ND	.53	3.98	29.88	MA2YD2300LTR-ND	3,000	173.00/M
	Single	30	1,500	0.39	500	MA2YD2800LCT-ND	.60	4.78	35.85	—	—	—
	Single	30	500	0.40	10	MA2YD3300LCT-ND	.51	3.81	28.59	MA2YD3300LTR-ND	3,000	165.00/M
Mini Type 3-Pin												
2	Single	30	700	0.55	700	MA3X70100LCT-ND◆	.46	3.70	27.72	—	—	—
	Single	30	1000	0.48	700	DB3X317K0LCT-ND◆ ***NEW!***	.41	3.30	24.75	DB3X317K0LTR-ND◆ ***NEW!***	3,000	109.72/M
	Single	20	500	0.50	500	MA3X70300LCT-ND◆	.58	4.66	34.97	MA3X70300LTR-ND◆	3,000	155.00/M
	Single	15	30	0.40	1	MA3X70400LCT-ND◆	.43	3.46	25.94	MA3X70400LTR-ND◆	3,000	115.00/M
	Single	30	30	0.40	1	MA3X704A0LCT-ND◆	.43	3.46	25.94	MA3X704A0LTR-ND◆	3,000	115.00/M
	Single	30	30	0.40	1	DB3X314K0LCT-ND◆ ***NEW!***	.46	3.86	30.88	DB3X314K0LTR-ND◆ ***NEW!***	3,000	123.52/M
	Single	40	500	0.55	500	MA3X72000LCT-ND◆	.57	4.60	34.47	MA3X72000LTR-ND◆	3,000	153.00/M
	Single	40	500	0.55	500	DB3X407K0LCT-ND◆ ***NEW!***	.51	4.10	30.77	DB3X407K0LTR-ND◆ ***NEW!***	3,000	136.43/M
	Single	30	200	0.55	200	DB3X313K0LCT-ND◆ ***NEW!***	.41	3.25	24.39	DB3X313K0LTR-ND◆ ***NEW!***	3,000	108.15/M
	Single	50	200	0.55	200	DB3X501K0LCT-ND◆ ***NEW!***	.51	3.83	28.74	DB3X501K0LTR-ND◆ ***NEW!***	3,000	166.04/M
	Single	20	500	0.50	500	MA3X74800LCT-ND◆	.59	4.70	35.22	MA3X74800LTR-ND◆	3,000	156.00/M
	Single	20	500	0.50	500	DB3X209K0LCT-ND◆ ***NEW!***	.52	4.19	31.44	DB3X209K0LTR-ND◆ ***NEW!***	3,000	139.40/M
	Single	30	100	0.55	100	DB3X316K0LCT-ND◆ ***NEW!***	.44	3.50	26.26	DB3X316K0LTR-ND◆ ***NEW!***	3,000	116.43/M
	Single	50	100	0.55	100	MA3X78700LCT-ND	.44	3.54	26.56	MA3X78700LTR-ND	3,000	118.00/M
	Single	60	200	0.65	200	MA3X78800LCT-ND◆	.50	3.78	28.33	—	—	—
	Single	60	500	0.65	500	MA3X78900LCT-ND◆	.59	4.41	33.10	—	—	—
	Single	20	1,000	0.45	1	MA3XD1100LCT-ND◆	.59	4.72	35.41	—	—	—
	Single	20	1,000	0.45	1	MA3XD1500LCT-ND◆	.52	3.90	29.22	MA3XD1500LTR-ND◆	3,000	169.00/M
	Single	15	1,000	0.40	500	MA3XD2100LCT-ND◆	.50	3.76	28.22	MA3XD2100LTR-ND◆	3,000	163.00/M
3	Dual Com Anode	30	30	0.40	1	MA3X704D0LCT-ND◆	.69	5.20	39.00	—	—	—
	Dual Com Anode	30	30	0.40	1	DB3X314J0LCT-ND◆ ***NEW!***	.62	4.64	34.82	DB3X314J0LTR-ND◆ ***NEW!***	3,000	201.18/M
	Dual Com Anode	30	110/150	0.30	1	MA3X717D0LCT-ND◆	.89	6.70	50.28	MA3X717D0LTR-ND◆	3,000	291.00/M
	Dual Com Anode	30	200	0.55	130/200	MA3X721D0LCT-ND	.83	6.24	46.82	MA3X721D0LTR-ND	3,000	270.00/M
	Dual Com Anode	30	100	0.55	200/300	MA3X786D0LCT-ND◆	.64	4.80	36.04	—	—	—
	Dual Com Anode	30	100	0.55	100	DB3X316J0LCT-ND◆ ***NEW!***	.57	4.29	32.17	DB3X316J0LTR-ND◆ ***NEW!***	3,000	185.89/M
4	Dual Com Cathode	30	30	0.40	1	MA3X704E0LCT-ND◆	.69	5.20	39.00	MA3X704E0LTR-ND◆	3,000	225.00/M
	Dual Com Cathode	30	30	0.40	1	DB3X315E0LCT-ND◆ ***NEW!***	.62	4.64	34.82	DB3X315E0LTR-ND◆ ***NEW!***	3,000	201.18/M
	Dual	30	200	0.55	130/200	MA3X721E0LCT-ND	.83	6.24	46.82	MA3X721E0LTR-ND	3,000	270.00/M
	Dual	30	200	0.55	200	DB3X313N0LCT-ND◆ ***NEW!***	.74	5.57	41.80	DB3X313N0LTR-ND◆ ***NEW!***	3,000	241.50/M
	Dual	30	100	0.55	100	DB3X316N0LCT-ND◆ ***NEW!***	.57	4.29	32.17	DB3X316N0LTR-ND◆ ***NEW!***	3,000	185.89/M

§ VRRM ◆ ***RoHS Compliant***

(Continued)

Panasonic Schottky Barrier Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				(V)	@mA		1	10	100		Qty.	Pricing
5	Dual Series	30	100	0.55	200/300	MA3X786E0LCT-ND◆	.64	4.80	36.04	MA3X786E0LTR-ND◆	3,000	208.00/M
	Dual Series	30	30	0.40	1	MA3X71600LCT-ND◆	.60	4.51	33.85	—	—	—
	Dual Series	30	30	0.40	1	DB3X314F0LCT-ND◆ ***NEW!***	.54	4.03	30.22	DB3X314F0LTR-ND◆ ***NEW!***	3,000	174.59/M
	Dual Series	30	200	0.55	220/300	MA3X74000LCT-ND◆	.93	6.94	52.09	MA3X74000LTR-ND◆	3,000	301.00/M
	Dual Series	30	200	0.55	200	DB3X313F0LCT-ND◆ ***NEW!***	.83	6.20	46.50	DB3X313F0LTR-ND◆ ***NEW!***	3,000	268.69/M
Mini Type 4-Pin — RoHS Compliant												
1	Dual	30	200	0.55	150/200	MA4X72600LCT-ND	.92	6.91	51.85	MA4X72600LTR-ND	3,000	300.00/M
6	Dual	50	200	0.55	150/200	MA4X74600LCT-ND	.46	3.41	25.61	MA4X74600LTR-ND	3,000	151.00/M
	Dual	30	200	0.55	150	MA4X72400LCT-ND	.68	5.11	38.32	MA4X72400LTR-ND	3,000	221.00/M
	Dual	50	100	0.55	70/100	MA4X79600LCT-ND	.63	4.72	35.42	MA4X79600LTR-ND	3,000	205.00/M
	Dual	35	100	1.00	100	MA4X86200LCT-ND	.52	3.93	29.51	MA4X86200LTR-ND	3,000	170.00/M
7	Dual	30	30	0.40	1	MA4X71400LCT-ND	.74	5.52	41.43	MA4X71400LTR-ND	3,000	239.00/M
8	Dual	50	200	0.36	30	DB4X501K0RCT-ND ***NEW!***	.51	4.06	30.48	DB4X501K0RTR-ND ***NEW!***	3,000	135.14/M
S-Mini Type 2-Pin — RoHS Compliant												
1	Single	20	200	0.55	200	MA2J70400LCT-ND	.49	3.68	27.58	—	—	—
	Single	20	500	0.42	500	DB2J20800LCT-ND ***NEW!***	.45	3.76	30.06	DB2J20800LTR-ND ***NEW!***	3,000	120.23/M
	Single	30	200	0.27	5	DB2J31000LCT-ND ***NEW!***	.41	3.42	27.32	DB2J31000LTR-ND ***NEW!***	3,000	109.30/M
	Single	40	500	0.55	500	DB2J40700LCT-ND ***NEW!***	.44	3.55	26.64	DB2J40700LTR-ND ***NEW!***	3,000	118.11/M
	Single	50	200	0.36	30	MA2J7270GLCT-ND	.82	6.15	46.11	—	—	—
	Single	50	200	0.55	200	DB2J50100LCT-ND ***NEW!***	.82	6.15	46.11	DB2J50100LTR-ND ***NEW!***	3,000	266.40/M
	Single	30	30	0.40	1	MA2J7280GLCT-ND	.42	3.52	28.16	MA2J7280GLTR-ND	3,000	112.63/M
	Single	30	30	0.40	1	DB2J31400LCT-ND ***NEW!***	.42	3.52	28.15	DB2J31400LTR-ND ***NEW!***	3,000	112.61/M
	Single	30	30	0.30	1	MA2J7320GLCT-ND	.47	3.90	31.21	MA2J7320GLTR-ND	3,000	124.84/M
	Single	20	300	0.40	300	MA2Z7480GLCT-ND	.45	3.76	30.06	—	—	—
	Single	20	500	0.50	500	DB2J20900LCT-ND ***NEW!***	.45	3.76	30.06	DB2J20900LTR-ND ***NEW!***	3,000	120.23/M
	Single	30	100	0.55	100	DB2J31600LCT-ND ***NEW!***	.41	3.45	27.59	DB2J31600LTR-ND ***NEW!***	3,000	110.37/M
S-Mini Type 3-Pin												
1	Single	30	200	0.55	200	MA3J7440GLCT-ND◆	.50	3.75	28.13	MA3J7440GLTR-ND◆	3,000	162.54/M
	Single	30	100	0.55	100	MA3Z7920GLCT-ND◆	.41	3.28	24.59	MA3Z7920GLTR-ND◆	3,000	109.02/M
	Single	30	30	0.40	1	MA3J7410GLCT-ND◆	.42	3.39	25.45	MA3J7410GLTR-ND◆	3,000	112.84/M
2	Single	40	500	0.55	500	DB3J407K0LCT-ND◆ ***NEW!***	.49	3.89	29.15	DB3J407K0LTR-ND◆ ***NEW!***	3,000	129.24/M
	Single	20	500	0.55	500	MA3J70200LCT-ND	.54	4.33	32.50	MA3J70200LTR-ND	3,000	144.00/M
	Single	30	30	0.40	1	MA3J74100LCT-ND	.48	3.80	28.51	—	—	—
	Single	30	200	0.55	200	MA3J74400LCT-ND	.56	4.20	31.51	—	—	—
	Single	30	30	0.30	1	MA3J74500LCT-ND	.65	4.90	36.78	—	—	—
	Single	30	100	0.55	100	MA3Z79200LCT-ND◆	.41	3.28	24.59	MA3Z79200LTR-ND◆	3,000	109.00/M
3	Dual Com Anode	30	30	0.40	1	MA3J741D0LCT-ND	.60	4.53	33.96	—	—	—
	Dual Com Anode	30	20	0.40	1	MA3J741DGLCT-ND◆	.54	4.04	30.32	MA3J741DGLTR-ND◆	3,000	175.20/M
4	Dual Com Cathode	30	30	0.40	1	MA3J741E0LCT-ND◆	.60	4.53	33.96	MA3J741E0LTR-ND◆	3,000	196.00/M
	Dual Com Cathode	30	30	0.30	1	MA3J745E0LCT-ND◆	.62	4.62	34.65	MA3J745E0LTR-ND◆	3,000	200.00/M
	Dual Com Cathode	30	100	0.55	70/100	MA3Z792E0LCT-ND◆	.50	4.02	30.16	MA3Z792E0LTR-ND◆	3,000	134.00/M
5	Dual Series	30	30	0.40	1	MA3J7420GLCT-ND◆	.56	4.22	31.62	MA3J7420GLTR-ND◆	3,000	182.71/M
S-Mini Type 4-Pin												
8	Dual	30	20/30	0.40	1	MA4Z71300LCT-ND	.58	4.60	34.52	MA4Z71300LTR-ND	3,000	153.00/M
	Dual	20	100	0.27	5	MA4ZD1400LCT-ND◆	.52	4.13	30.98	—	—	—
	Dual	30	200	0.27	5	DB4J310K0RCT-ND◆ ***NEW!***	.48	3.83	28.69	DB4J310K0RTR-ND◆ ***NEW!***	3,000	127.19/M
	Dual	45	100	0.60	75/100	MA4ZD0300LCT-ND◆	.50	3.76	28.22	—	—	—
S-Mini Type 6-Pin — RoHS Compliant												
9	Triple	30	30	0.40	1	MA6Z71800LCT-ND	.68	5.09	38.18	—	—	—
Mini-Power Type 2-Pin — RoHS Compliant												
1	Single	90	700	0.80	700	MA2Q73900LCT-ND	.87	6.52	48.92	MA2Q73900LTR-ND	1,500	289.00/M
SS-Mini Type 2-Pin — RoHS Compliant												
1	Single	30	100	0.55	100	DB2S31600LCT-ND ***NEW!***	.48	3.80	28.52	DB2S31600LTR-ND ***NEW!***	3,000	126.46/M
	Single	20	200	0.27	5	MA2SD100GLCT-ND	.48	3.80	28.52	MA2SD100GLTR-ND	3,000	126.46/M
	Single	30	200	0.47	200	DB2S31000LCT-ND ***NEW!***	.44	3.55	26.64	DB2S31000LTR-ND ***NEW!***	3,000	118.11/M
	Single	20	200	0.47	200	MA2SD190GLCT-ND	.44	3.55	26.64	—	—	—
	Single	30	200	0.56	200	DB2S31100LCT-ND ***NEW!***	.44	3.55	26.64	DB2S31100LTR-ND ***NEW!***	3,000	118.11/M
	Single	15	200	0.39	200	MA2SD250GLCT-ND	.44	3.55	26.64	MA2SD250GLTR-ND	3,000	118.11/M
	Single	20	200	0.39	200	DB2S20500LCT-ND ***NEW!***	.44	3.55	26.64	DB2S20500LTR-ND ***NEW!***	3,000	118.11/M
	Single	30	100	0.29	10	DB2S30800LCT-ND ***NEW!***	.48	3.83	28.69	DB2S30800LTR-ND ***NEW!***	3,000	127.19/M
	Single	30	100	0.38	10	MA2SD3000LCT-ND	.48	3.83	28.69	—	—	—
	Single	30	100	0.38	10	MA2SD300GLCT-ND	.48	3.83	28.69	—	—	—
	Single	30	200	0.47	200	MA2SD310GLCT-ND	.51	4.10	30.74	—	—	—
	Single	30	200	0.49	200	MA2SD3200LCT-ND	.51	4.10	30.74	—	—	—
	Single	30	200	0.56	200	MA2SD320GLCT-ND	.51	4.10	30.74	MA2SD320GLTR-ND	3,000	136.29/M

§ VRRM ◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Schottky Barrier Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				(V)	@mA		1	10	100		Qty.	Pricing
SS-Mini Type 3-Pin												
1	Single	30	30	0.40	1	MA3S7810GLCT-ND◆	.48	3.80	28.52	MA3S7810GLTR-ND◆	3,000	126.46/M
2	Single	30	30	0.30	1	MA3S79500LCT-ND	.51	4.11	30.81	—	—	—
	Single	30	30	0.40	1	MA3S78100LCT-ND	.51	4.11	30.81	—	—	—
3	Dual Com Anode	30	30	0.30	1	MA3S795D0LCT-ND◆	.62	4.62	34.63	MA3S795D0LTR-ND◆	3,000	200.00/M
	Dual Com Anode	30	30	0.40	1	MA3S781D0LCT-ND	.62	4.62	34.63	—	—	—
	Dual Com Anode	30	30	0.40	1	MA3S781DGLCT-ND◆	.57	4.27	32.06	MA3S781DGLTR-ND◆	3,000	185.24/M
4	Dual Com Cathode	30	30	0.30	1	MA3S795E0LCT-ND◆	.62	4.62	34.63	MA3S795E0LTR-ND◆	3,000	200.00/M
	Dual Com Cathode	30	30	0.40	1	MA3S781EGLCT-ND◆	.57	4.27	32.06	—	—	—
5	Dual Series	30	30/20	0.40	1	MA3S781F0LCT-ND◆	.57	4.27	32.06	MA3S781F0LTR-ND◆	3,000	185.00/M
	Dual Series	30	20	0.40	1	MA3S781FGLCT-ND◆	.57	4.27	32.06	MA3S781FGLTR-ND◆	3,000	185.24/M
	Dual Series	20	35/25	0.41	1	MA3SE0100LCT-ND◆	.55	4.14	31.03	MA3SE0100LTR-ND◆	3,000	179.00/M
	Dual Series	30	100/75	0.29	10	MA3SD29F0LCT-ND◆	.65	4.87	36.54	—	—	—
SS-Mini Type 4-Pin — RoHS Compliant												
8	Dual	45	100	0.35	1	MA4SD05X0LCT-ND	.55	4.37	32.75	—	—	—
	Dual	30	30	0.35	1	MA4SD0100LCT-ND	.53	4.25	31.87	—	—	—
	Dual	20	200	0.27	5	MA4SD1000LCT-ND	.87	6.52	48.88	MA4SD1000LTR-ND	3,000	282.00/M
SSS-Mini Type 2-Pin — RoHS Compliant												
1	Single	30	100	0.55	100	DB2731600LCT-ND ***NEW!***	.49	3.93	29.51	DB2731600LTR-ND ***NEW!***	10,000	122.95/M
	Single	30	100	0.44	10	DB2730900LCT-ND ***NEW!***	.55	4.37	32.79	DB2730900LTR-ND ***NEW!***	10,000	136.62/M
	Single	30	30	0.4	1	DB2731400LCT-ND ***NEW!***	.42	3.33	25.00	DB2731400LTR-ND ***NEW!***	10,000	104.17/M
	Single	30	100	0.25	10	MA27D2900LCT-ND	.55	4.37	32.79	—	—	—
	Single	30	100	0.25	10	MA27D290GLCT-ND	.55	4.37	32.79	—	—	—
	Single	30	100	0.38	10	MA27D3000LCT-ND	.55	4.37	32.79	—	—	—
	Single	30	100	0.44	10	MA27D300GLCT-ND	.55	4.37	32.79	—	—	—
	Single	20	35	0.40	1	MA27E0200LCT-ND	.55	4.37	32.79	MA27E0200LTR-ND	10,000	137.00/M
SSS-Mini Type 3-Pin — RoHS Compliant												
4	Dual Com Cathode	30	30	0.30	1	MAS3795E0LCT-ND	.65	4.87	36.52	—	—	—
	Dual Com Cathode	30	20	0.30	1	MAS3795EGLCT-ND	.60	4.51	33.81	—	—	—
TO-220D — RoHS Compliant												
10	Dual Com Cathode	40§	5,000	0.55	2,500	MA3D749-ND	1.15	9.58	76.61	—	—	—
	Dual Com Cathode	45§	5,000	0.55	2,500	MA3D749A-ND	1.24	10.34	82.74	—	—	—
	Dual Com Cathode	40§	10,000	0.55	5,000	MA3D750-ND	1.29	10.73	85.80	—	—	—
	Dual Com Cathode	45§	10,000	0.55	5,000	MA3D750A-ND	1.38	11.49	91.93	—	—	—
	Dual Com Cathode	40§	20,000	0.55	10,000	MA3D752-ND	1.69	13.48	101.12	—	—	—
	Dual Com Cathode	45§	20,000	0.55	10,000	MA3D752A-ND	1.95	15.63	117.21	—	—	—
	Dual Com Cathode	60§	10,000	0.58	5,000	MA3D756-ND	1.42	11.34	85.04	—	—	—
	Dual Com Cathode	90§	10,000	0.85	5,000	MA3D761-ND	1.99	15.93	119.51	—	—	—
	Dual Com Cathode	30§	10,000	0.47	5,000	MA3D799-ND	1.38	11.49	91.93	—	—	—
U-G2 — RoHS Compliant												
11	Dual Com Cathode	40§	5,000	0.55	2,500	MA3U74900LCT-ND	1.34	10.73	80.44	MA3U74900LTR-ND	3,000	686.00/M

§ VRRM ◆ ***RoHS Compliant***

Pin Diodes – Silicon Epitaxial Planar Type

Fig.	Description	VR (V)	IF (mA)	VF		Ct (pF)	rf (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				(V)	@mA				1	10	100		Qty.	Pricing
S-Mini Type 2-Pin														
1	Single	60	100	1.0	10	0.5	2.0	MA2JP0200LCT-ND	.58	4.60	34.52	MA2JP0200LTR-ND	3,000	153.00/M
SS-Mini Type 2-Pin														
2	Single	60	100	1.0	10	0.8	1.0	MA2SP0100LCT-ND	.59	4.72	35.41	MA2SP0100LTR-ND	3,000	157.00/M
	Single	60	100	1.0	10	0.8	1.0	MA2SP010GLCT-ND	.55	4.37	32.79	—	—	—
	Single	60	100	1.0	10	0.5	2.0	MA2SP0200LCT-ND	.59	4.72	35.41	MA2SP0200LTR-ND	3,000	157.00/M
	Single	60	50	1.0	10	2.4	5.5	MA2SP0500LCT-ND	.55	4.37	32.79	MA2SP0500LTR-ND	3,000	145.00/M
	Single	60	50	1.0	10	2.4	5.5	MA2SP050GLCT-ND	.55	4.37	32.79	MA2SP050GLTR-ND	3,000	145.36/M
	Single	60	100	1.0	10	0.6	1.2	MA2SP060GLCT-ND	.55	4.37	32.79	—	—	—
SSS-Mini Type 2-Pin														
3	Single	60	100	1.0	10	.035	1.5	MA27P0700LCT-ND	.55	4.43	33.20	—	—	—

Dimensions in mm

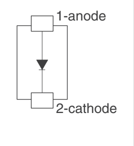

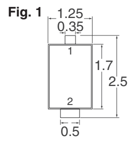

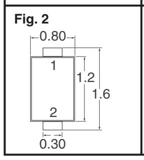

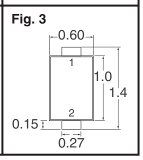

GaAs MMIC SP3T Switches

CDMA 1 (MHz)	PCS 2 (MHz)	GPS 3 (MHz)	PD (mW)	Vctrl(H)-Vctrl(L) (V)	Pin (CDMA, PCS) (dBm)	Pin (GPS) (dBm)	Topr (°C)	Tstg (°C)	Digi-Key Part No.	Cut Tape Price Each		
										1	10	100
824 ~ 894	1850 ~ 1990	1574 ~ 1577	150	+5	35	20	-30 ~ 90	-40 ~ 120	GN04042N0LCT-ND	3.10	2.48	1.93

Pin Connection		
1 Gnd.	5. GPS-Rx	9. Vctrl2
2 Ant	6. Gnd.	10. Gnd.
3. Gnd.	7. Gnd.	11. PCS-Tx/Rx
4. Vctrl3	8. CDMA-Tx/Rx	12. Vctrl1

Dimensions in mm

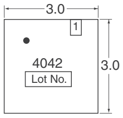

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

Switching Diodes – Silicon Epitaxial Planar Type

Dimensions in mm Digi-Reel®

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

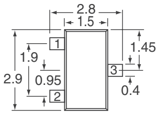

Mini Type (4-pin)

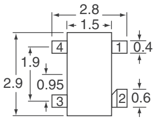

Mini Type (6-pin)

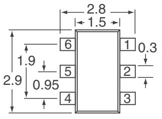

S-Mini Type (2-pin)

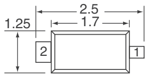

S-Mini Type (3-pin)
EIAJ: SC-70

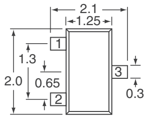

S-Mini Type (4-pin)

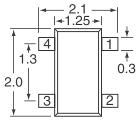

S-Mini Type (5-pin)

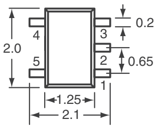

S-Mini Type (6-pin)

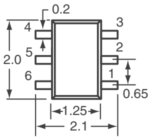

SS-Mini Type (2-pin)

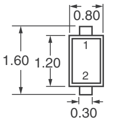

SS-Mini Type (3-pin)

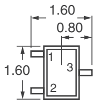

NEW! **SS-Mini Type (5-pin)**

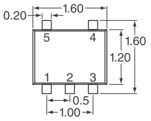

SSS-Mini Type (2-pin)

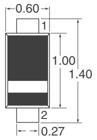

SSS-Mini Type (3-pin)

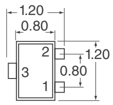

USS-Mini Type (2-pin)

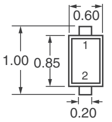

DO-34

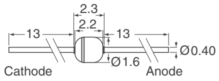

Fig. 1

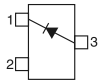

Fig. 2

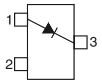

Fig. 3

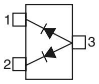

Fig. 4

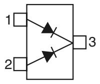

Fig. 5

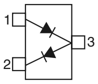

Fig. 6

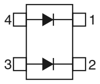

Fig. 7

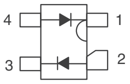

Fig. 8

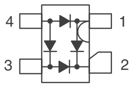

Fig. 9

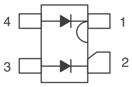

Fig. 10

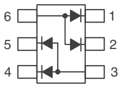

Fig. 11

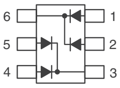

Fig. 12

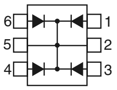

Fig. 13

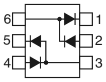

Fig. 14

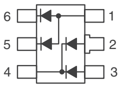

Fig. 15

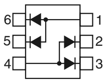

Fig. 16

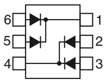

Fig. 17

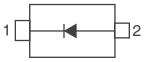

Fig. 18

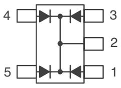

Fig. 19

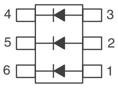

Fig. 20

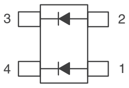

Fig. 21 ***NEW!***

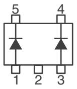

Fig.	Package	Description	VR (V)	IF (mA)	IR (µA)	trr Max. (ns)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	Mini 3P	Single	80	100	0.1	3	DA3X101A0LCT-ND◆ ***NEW!***	.35	2.64	18.27	DA3X101A0LTR-ND◆ ***NEW!***	3,000	70.28/M
2	Mini 3P	Single	80	100	0.1	3	DA3X101K0LCT-ND◆ ***NEW!***	.35	2.64	18.27	DA3X101K0LTR-ND◆ ***NEW!***	3,000	70.28/M
3	Mini 3P	Dual Com Anode	80	100	0.1	10	DA3X102D0LCT-ND◆ ***NEW!***	.33	2.57	18.09	DA3X102D0LTR-ND◆ ***NEW!***	3,000	74.02/M
4	Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3X152E0LCT-ND◆	.37	2.88	20.26	MA3X152E0LTR-ND◆	3,000	83.00/M
4	Mini 3P	Dual Com Cathode	80	100	0.1	10	DA3X103E0LCT-ND◆ ***NEW!***	.33	2.57	18.09	DA3X103E0LTR-ND◆ ***NEW!***	3,000	74.02/M
5	Mini 3P	Dual Series	80	100	0.1	3	DA3X101F0LCT-ND◆ ***NEW!***	.40	3.10	21.82	DA3X101F0LTR-ND◆ ***NEW!***	3,000	89.27/M
2	Mini 3P	Single	200	100	1	—	MA3X15800LCT-ND	.52	4.19	31.43	MA3X15800LTR-ND	3,000	139.00/M
2	Mini 3P	Single	200	100	1	60	MA3X19900LCT-ND◆	.49	3.65	27.36	—	—	—
7	Mini 4P	Dual	40	100	0.1	3	MA4X16000LCT-ND◆	.60	4.78	35.85	—	—	—
7	Mini 4P	Dual	80	100	0.1	3	DA4X101F0RCT-ND◆ ***NEW!***	.60	4.78	35.85	DA4X101F0RTR-ND◆ ***NEW!***	3,000	158.95/M
6	Mini 4P	Dual	200	100	1	—	MA4X17400LCT-ND◆	.66	4.99	37.40	MA4X17400LTR-ND◆	3,000	216.00/M
8	Mini 4P	Quad	80	70	0.1	10	MA4X19300LCT-ND◆	.70	5.24	39.30	MA4X19300LTR-ND◆	3,000	227.00/M
9	Mini 4P	Dual	40	100	0.01	100	MA4X19400LCT-ND◆	.74	5.52	41.37	MA4X19400LTR-ND◆	3,000	239.00/M
20	Mini 4P	Dual	80	100	0.1	3	DA4X101K0RCT-ND◆ ***NEW!***	.42	3.36	25.17	DA4X101K0RTR-ND◆ ***NEW!***	3,000	111.58/M
19	Mini 6P	Triple	80	100	0.1	3	DA6X101K0RCT-ND◆ ***NEW!***	.45	3.57	26.79	DA6X101K0RTR-ND◆ ***NEW!***	3,000	118.77/M
10	Mini 6P	Quad	80	100	0.1	10	MA6X12200LCT-ND◆	.59	4.41	33.10	—	—	—
11	Mini 6P	Quad	80	100	0.1	3	MA6X12300LCT-ND◆	.59	4.41	33.10	—	—	—
12	Mini 6P	Quad	80	100	0.1	3	MA6X12400LCT-ND◆	.69	5.21	39.06	—	—	—
13	Mini 6P	Quad	40	100	0.1	150/9§	MA6X12500LCT-ND◆	.72	5.43	40.69	MA6X12500LTR-ND◆	3,000	235.00/M
14	Mini 6P	Quad	80	100	0.1	10	MA6X12600LCT-ND◆	.59	4.41	33.10	MA6X12600LTR-ND◆	3,000	191.00/M
15	Mini 6P	Quad	80	100	0.1	10	MA6X12700LCT-ND◆	.45	3.63	27.20	MA6X12700LTR-ND◆	3,000	121.00/M
15	Mini 6P	Quad	80	100	0.1	10	DA6X102S0RCT-ND◆ ***NEW!***	.40	3.24	24.29	DA6X102S0RTR-ND◆ ***NEW!***	3,000	107.68/M
16	Mini 6P	Quad	80	100	0.1	10	DA6X103T0RCT-ND◆ ***NEW!***	.47	3.95	31.63	DA6X103T0RTR-ND◆ ***NEW!***	3,000	126.53/M
17	S-Mini 2P	Single	30	1000	100	7.8§	DB2J31700LCT-ND◆ ***NEW!***	.37	2.96	20.32	DB2J31700LTR-ND◆ ***NEW!***	3,000	95.97/M

§ Typical ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic® Switching Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Package	Description	VR (V)	IF (mA)	IR (µA)	trr Max. (ns)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
17	S-Mini 2P	Single	80	100	0.1	3	DA2J10100LCT-ND◆ ***NEW!***	.31	2.30	15.95	DA2J10100LTR-ND◆ ***NEW!***	3,000	61.34/M
17	S-Mini 2P	Single	40	200	0.5	10	MA2J1120GLCT-ND◆	.46	3.86	30.88	—	—	—
17	S-Mini 2P	Single	80	200	0.5	10	DA2J10400LCT-ND◆ ***NEW!***	.36	2.94	20.18	DA2J10400LTR-ND◆ ***NEW!***	3,000	95.29/M
17	S-Mini 2P	Single	300	600	0.2	—	DA2J10800LCT-ND◆ ***NEW!***	.55	4.09	30.67	DA2J10800LTR-ND◆ ***NEW!***	3,000	177.19/M
17	S-Mini 2P	Single	200	100	1.0	60	MA2Z0010GLCT-ND◆	.49	3.69	27.67	—	—	—
1	S-Mini 3P	Single	80	100	0.1	3	MA3J142A0LCT-ND◆	.33	2.61	18.36	MA3J142A0LTR-ND◆	3,000	75.00/M
1	S-Mini-3P	Single	80	100	0.1	3	MA3J142AGLCT-ND◆	.37	2.79	19.37	MA3J142AGLTR-ND◆	3,000	74.50/M
3	S-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3J142D0LCT-ND◆	.36	2.88	19.76	—	—	—
3	S-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3J142DGLCT-ND◆	.39	3.06	21.56	MA3J142DGLTR-ND◆	3,000	88.22/M
4	S-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3J142E0LCT-ND◆	.36	2.88	19.76	MA3J142E0LTR-ND◆	3,000	99.00/M
4	S-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3J142EGLCT-ND◆	.39	3.06	21.56	—	—	—
4	S-Mini 3P	Dual Com Cathode	80	100	0.1	10	DA3J103E0LCT-ND◆ ***NEW!***	.39	3.06	21.56	DA3J103E0LTR-ND◆ ***NEW!***	3,000	88.20/M
2	S-Mini 3P	Single	80	100	0.1	3	MA3J142K0LCT-ND◆	.33	2.61	18.36	—	—	—
2	S-Mini-3P	Single	80	100	0.1	3	MA3J142KGLCT-ND◆	.37	2.79	19.37	MA3J142KGLTR-ND◆	3,000	74.50/M
5	S-Mini-3P	Dual Series	40	65	0.1	150/9	MA3J1430GLCT-ND◆	.42	3.30	23.26	—	—	—
5	S-Mini 3P	Dual Series	80	100	0.1	150/9§	MA3J143AGLCT-ND◆	.42	3.30	23.26	—	—	—
5	S-Mini 3P	Dual Series	80	100	0.1	3	DA3J101F0LCT-ND◆ ***NEW!***	.42	3.30	23.26	DA3J101F0LTR-ND◆ ***NEW!***	3,000	95.17/M
2	S-Mini 3P	Single	200	100	1.0	60	MA3X10000LCT-ND◆	.58	4.66	34.94	MA3X10000LTR-ND◆	3,000	155.00/M
2	S-Mini-3P	Single	200	100	1.0	60	MA3X1000GLCT-ND◆	.58	4.66	34.93	MA3X1000GLTR-ND◆	3,000	154.86/M
6	S-Mini 4P	Dual	80	100	0.1	3	MA4Z15900LCT-ND◆	.44	3.54	26.54	MA4Z15900LTR-ND◆	3,000	118.00/M
20	S-Mini 4P	Dual	80	100	0.1	3	DA4J101K0RCT-ND◆ ***NEW!***	.47	3.95	31.58	DA4J101K0RTR-ND◆ ***NEW!***	3,000	126.34/M
18	S-Mini 5P	Quad	80	100	0.1	3	MA5J002E0LCT-ND◆	.54	4.29	32.18	MA5J002E0LTR-ND◆	3,000	143.00/M
19	S-Mini 6P	Triple	80	100	0.1	3	MA6Z12100LCT-ND◆	.51	3.86	28.96	MA6Z12100LTR-ND◆	3,000	167.00/M
17	SS-Mini 2P	Single	35	100	0.1	—	MA2S07700LCT-ND◆	.40	3.32	26.56	MA2S07700LTR-ND◆	3,000	106.00/M
17	SS-Mini2P	Single	35	100	0.1	—	MA2S077G0LCT-ND◆	.40	3.23	22.13	MA2S077G0LTR-ND◆	3,000	104.52/M
17	SS-Mini 2P	Single	250	100	1.0	60	MA2S10100LCT-ND◆	.51	4.04	30.34	MA2S10100LTR-ND◆	3,000	134.00/M
17	SS-Mini 2P	Single	250	100	1.0	60	MA2S1010GLCT-ND◆	.51	4.04	30.34	MA2S1010GLTR-ND◆	3,000	134.49/M
17	SS-Mini 2P	Single	80	100	0.1	3	MA2S1110GLCT-ND◆	.33	2.61	18.39	—	—	—
17	SS-Mini 2P	Single	80	100	0.1	3	DA2S10100LCT-ND◆ ***NEW!***	.33	2.61	18.39	DA2S10100LTR-ND◆ ***NEW!***	3,000	75.24/M
1	SS-Mini 3P	Single	80	100	0.1	3	MA3S132A0LCT-ND	.36	2.80	19.73	MA3S132A0LTR-ND	3,000	81.00/M
1	SS-Mini-3P	Single	80	100	0.1	3	MA3S132AGLCT-ND◆	.33	2.60	18.27	—	—	—
3	SS-Mini-3P	Dual Com Anode	80	100	0.1	10	MA3S132DGLCT-ND◆	.43	3.34	23.50	MA3S132DGLTR-ND◆	3,000	96.16/M
4	SS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3S132E0LCT-ND◆	.37	3.03	20.77	—	—	—
2	SS-Mini-3P	Dual Com Anode	80	100	0.1	3	DA3S101K0LCT-ND◆ ***NEW!***	.33	2.60	18.27	DA3S101K0LTR-ND◆ ***NEW!***	3,000	74.76/M
5	SS-Mini-3P	Dual Series	80	65	0.1	150	MA3S1330GLCT-ND◆	.46	3.86	30.88	—	—	—
5	SS-Mini-3P	Dual Series	80	100	0.1	3	DA3S101F0LCT-ND◆ ***NEW!***	.46	3.86	30.88	DA3S101F0LTR-ND◆ ***NEW!***	3,000	123.51/M
21	SS-Mini 5P	Dual	80	100	0.1	3	DA5S101K0RCT-ND◆ ***NEW!***	.51	4.04	30.34	DA5S101K0RTR-ND◆ ***NEW!***	8,000	128.93/M
17	SSS-Mini 2P	Single	35	100	0.1	—	MA2707700LCT-ND◆	.38	2.87	19.92	MA2707700LTR-ND◆	10,000	61.00/M
17	SSS-Mini-2P	Single	35	100	0.1	—	MA27077G0LCT-ND◆	.38	2.87	19.92	MA27077G0LTR-ND◆	10,000	61.30/M
17	SSS-Mini 2P	Single	80	100	0.1	3	MA2711100LCT-ND◆	.44	3.69	29.51	—	—	—
17	SSS-Mini 2P	Single	80	100	0.1	3	MA271110GLCT-ND◆	.41	3.42	27.32	—	—	—
17	SSS-Mini 2P	Single	80	100	0.1	3	DA2710100LCT-ND◆ ***NEW!***	.41	3.42	27.32	DA2710100LTR-ND◆ ***NEW!***	10,000	95.64/M
3	SSS-Mini-3P	Dual Com Anode	80	100	0.1	10	MAS3132DGLCT-ND◆	.51	4.10	30.74	MAS3132DGLTR-ND◆	10,000	128.08/M
4	SSS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MAS3132E0LCT-ND◆	.51	4.10	30.74	—	—	—
4	SSS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MAS3132EGLCT-ND◆	.51	4.10	30.74	MAS3132EGLTR-ND◆	10,000	128.09/M
17	USS-Mini 2P	Single	80	100	0.1	3	MAU211100BCT-ND◆	.49	3.68	27.63	MAU211100BTR-ND◆	10,000	154.00/M
17	USS-Mini 2P	Single	30	100	0.3	1§	MAU2D3000BCT-ND◆	.49	3.68	27.63	MAU2D3000BTR-ND◆	10,000	154.00/M
17	DO-34	Single	35	100	0.1	10	MA2C16500ECT-ND◆	.27	2.03	14.07	—	—	—
17	DO-34	Single	40	200	.500	20	MA2C17800ECT-ND◆	.47	3.53	24.46	—	—	—
17	DO-34	Single	80	200	.500	20	MA2C17900ECT-ND◆	.64	4.77	33.09	—	—	—
17	DO-34	Single	35	100	.005	0.20ms	MA2C19500ECT-ND◆	.25	1.87	12.95	—	—	—
17	DO-34	Single	50	100	.005	0.20ms	MA2C19600ECT-ND◆	.25	1.87	12.95	—	—	—

§ Typical ◆ ***RoHS Compliant***

Panasonic Silicon Planar Type Trigger Device

RoHS COMPLIANT

Features:

- Satisfactory symmetry of break over voltage V_{B0}
- Large output voltage V_0 and small break over current I_{B0}

Dimensions in mm

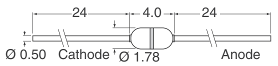

Package	VB0 (V) min.	V0 (V) typical	IB0 (μA) max.	T.C. (VB0) %/°C	VB0 (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100
DO-35	28	7.0	50	0.1	3.5	MA2B00100FCT-ND	.69	5.16	38.73

Zener Diodes Silicon Planar Type

Digi-Reel®

Zener Voltage VZ Min.	Nom.	Max.	IZ (mA)	RZ (max.) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Mini Type Package 3 Pin — MA3000 Series - 200mW											
2.28	2.4	2.6	5	100	MAZ302400LCT-ND◆	.37	2.99	20.47	MAZ302400LTR-ND◆	3,000	97.00/M
2.5	2.7	2.9	5	110	MAZ30270HLCT-ND	.37	2.99	20.47	MAZ30270HLTR-ND	3,000	97.00/M
2.8	3.0	3.2	5	120	MAZ30300HLCT-ND	.37	2.99	20.47	MAZ30300HLTR-ND	3,000	97.00/M
3.4	3.6	3.8	5	130	MAZ30360HLCT-ND	.37	2.99	20.47	—	—	—
4.0	4.3	4.6	5	130	MAZ30430MLCT-ND	.37	2.99	20.47	MAZ30430MLTR-ND	3,000	97.00/M
4.4	4.7	5.0	5	80	MAZ30470MLCT-ND	.37	2.99	20.47	MAZ30470MLTR-ND	3,000	97.00/M
5.3	5.6	6.0	5	40	MAZ30560MLCT-ND◆	.37	2.99	20.47	—	—	—
7.0	7.5	7.9	5	15	MAZ30750MLCT-ND◆	.37	2.99	20.47	MAZ30750MLTR-ND◆	3,000	97.00/M
7.7	8.2	8.7	5	15	MAZ30820MLCT-ND	.37	2.99	20.47	—	—	—
8.5	9.1	9.6	5	15	MAZ30910MLCT-ND	.37	2.99	20.47	—	—	—
10.4	11	11.6	5	20	MAZ31100MLCT-ND◆	.37	2.99	20.47	MAZ31100MLTR-ND◆	3,000	97.00/M
12.4	13	14.1	5	30	MAZ31300MLCT-ND	.37	2.99	20.47	MAZ31300MLTR-ND	3,000	97.00/M
13.65	14	14.35	5	30	MAZ31400MLCT-ND◆	.37	2.99	20.47	MAZ31400MLTR-ND◆	3,000	97.00/M
13.9	14.3	14.76	5	30	MAZ31500LLCT-ND◆	.37	2.96	20.29	MAZ31500LLTR-ND◆	3,000	96.00/M
13.9	15	15.6	5	30	MAZ31500MLCT-ND◆	.37	2.99	20.47	—	—	—
15.3	16	17.1	5	40	MAZ31600MLCT-ND	.37	2.99	20.47	MAZ31600MLTR-ND	3,000	97.00/M
16.9	18	19.1	5	45	MAZ31800MLCT-ND	.37	2.99	20.47	—	—	—
18.8	20	21.2	5	55	MAZ32000MLCT-ND◆	.37	2.99	20.47	—	—	—
20.8	22	23.3	5	55	MAZ32200MLCT-ND	.37	2.99	20.47	MAZ32200MLTR-ND	3,000	97.00/M
22.8	24	25.6	5	70	MAZ32400MLCT-ND	.37	2.99	20.47	MAZ32400MLTR-ND	3,000	97.00/M
25.1	27	28.9	5	80	MAZ32700MLCT-ND◆	.37	2.99	20.47	MAZ32700MLTR-ND◆	3,000	97.00/M
28	30	32	5	80	MAZ33000MLCT-ND	.37	2.99	20.47	—	—	—
31	33	35	5	80	MAZ33300MLCT-ND	.37	2.99	20.47	—	—	—
34	36	38	5	90	MAZ33600MLCT-ND	.37	2.99	20.47	MAZ33600MLTR-ND	3,000	97.00/M
Mini Type Package 3 Pin — Dual Element - 200mW											
5.9	6.2	6.5	5	30	MAZC062D0LCT-ND	.50	4.21	33.66	—	—	—
5.8	6.2	6.6	5	50	MAZ9062H0LCT-ND◆	.51	4.10	30.74	MAZ9062H0LTR-ND◆	3,000	136.00/M
6.4	6.8	7.2	5	30	MAZ9068H0LCT-ND◆	.51	4.10	30.74	MAZ9068H0LTR-ND◆	3,000	136.00/M
11.4	12	12.7	5	30	MAZ9120H0LCT-ND◆	.51	4.10	30.74	MAZ9120H0LTR-ND◆	3,000	136.00/M
Mini Type 5-Pin Package — 200mW											
6.4	6.8	7.2	5	30	MAZL068H0LCT-ND	.61	4.90	36.73	MAZL068H0LTR-ND	3,000	159.00/M
11.4	12	12.7	5	30	MAZL120H0LCT-ND	.61	4.90	36.73	MAZL120H0LTR-ND	3,000	159.00/M
S-Mini Type Package 2 Pin											
2.28	2.4	2.6	5	100	MAZ802400LCT-ND◆	.43	3.32	23.40	—	—	—
2.28	2.4	2.6	5	100	MAZ8024G0LCT-ND◆	.38	2.97	20.89	—	—	—
2.28	2.4	2.52	5	100	DZ2J02400LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J02400LTR-ND◆ ***NEW!***	3,000	85.45/M
2.65	2.7	2.9	5	110	MAZ8027GHLCT-ND◆	.38	2.97	20.89	—	—	—
2.85	3.0	3.15	5	120	DZ2J03000LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J03000LTR-ND◆ ***NEW!***	3,000	85.45/M
2.93	3.0	3.08	5	120	DZ2J030M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J030M0LTR-ND◆ ***NEW!***	3,000	85.45/M
3.14	3.3	3.47	5	130	DZ2J03300LCT-ND◆ ***NEW!***	.34	2.63	18.54	DZ2J03300LTR-ND◆ ***NEW!***	3,000	75.86/M
3.55	3.6	3.8	5	130	MAZ8036GHLCT-ND◆	.38	2.97	20.89	—	—	—
3.71	3.9	4.10	5	130	DZ2J03900LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J03900LTR-ND◆ ***NEW!***	3,000	85.45/M
3.87	3.9	4.1	5	130	MAZ8039GHLCT-ND◆	.38	2.97	20.89	—	—	—
3.8	3.9	4.0	5	130	DZ2J039M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J039M0LTR-ND◆ ***NEW!***	3,000	85.45/M
4.31	4.3	4.54	5	130	MAZ8043GMLCT-ND◆	.38	2.97	20.89	—	—	—
4.47	4.7	4.94	5	80	DZ2J04700LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J04700LTR-ND◆ ***NEW!***	3,000	85.45/M
4.47	4.7	4.94	5	80	DZ2J047M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J047M0LTR-ND◆ ***NEW!***	3,000	85.45/M
4.85	5.1	5.36	5	60	DZ2J05100LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J05100LTR-ND◆ ***NEW!***	3,000	85.45/M
4.85	5.1	5.36	5	60	DZ2J051M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J051M0LTR-ND◆ ***NEW!***	3,000	85.45/M
5.48	5.6	5.76	5	40	DZ2J056M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J056M0LTR-ND◆ ***NEW!***	3,000	85.45/M
5.8	6.2	6.6	5	30	MAZ80620MLCT-ND◆	.43	3.32	23.40	—	—	—
5.89	6.2	6.51	5	30	DZ2J06200LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J06200LTR-ND◆ ***NEW!***	3,000	85.45/M
6.05	6.2	6.36	5	30	MAZ8062GMLCT-ND◆	.38	2.97	20.89	—	—	—
5.89	6.2	6.51	5	30	DZ2J062M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J062M0LTR-ND◆ ***NEW!***	3,000	85.45/M
6.4	6.8	7.2	5	20	MAZ80680MLCT-ND◆	.43	3.32	23.40	—	—	—
6.46	6.8	7.14	5	20	DZ2J06800LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J06800LTR-ND◆ ***NEW!***	3,000	85.45/M
6.64	6.8	6.98	5	20	MAZ8068GMLCT-ND◆	.38	2.97	20.89	—	—	—
6.64	6.8	6.98	5	20	DZ2J068M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J068M0LTR-ND◆ ***NEW!***	3,000	85.45/M
7.0	7.5	7.9	5	20	MAZ80750MLCT-ND◆	.43	3.32	23.40	—	—	—
7.29	7.50	7.67	5	20	MAZ8075GMLCT-ND◆	.38	2.97	20.89	—	—	—
8.03	8.2	8.43	5	20	DZ2J082M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J082M0LTR-ND◆ ***NEW!***	3,000	85.45/M
7.79	8.2	8.61	5	20	DZ2J08200LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J08200LTR-ND◆ ***NEW!***	3,000	85.45/M

◆ *RoHS Compliant*

Dimensions in mm

Mini Type Package (3-pin)

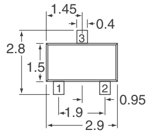

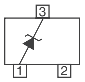

Mini Type Package (3-pin) Dual Element

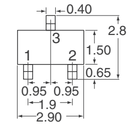

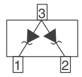

Mini Type (5-pin) Package - 200mW

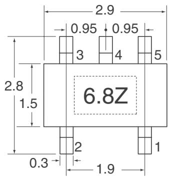

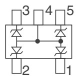

(Continued)

Zener Voltage VZ			IZ (mA)	RZ (max.) (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
Min.	Nom.	Max.				1	10	100		Qty.	Pricing
8.50	9.1	9.6	5	20	MAZ80910MLCT-ND◆	.43	3.32	23.40	—	—	—
8.87	9.10	9.33	5	20	MAZ8091GMLCT-ND◆	.38	2.97	20.89	—	—	—
8.65	9.10	9.56	5	20	DZ2J09100LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J09100LTR-ND◆ ***NEW!***	3,000	85.45/M
8.87	9.10	9.33	5	20	DZ2J091M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J091M0LTR-ND◆ ***NEW!***	3,000	85.45/M
9.50	10	10.50	5	30	DZ2J10000LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J10000LTR-ND◆ ***NEW!***	3,000	85.45/M
9.75	10	10.25	5	30	DZ2J100M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J100M0LTR-ND◆ ***NEW!***	3,000	85.45/M
10.4	11	11.6	5	30	MAZ81100MLCT-ND◆	.43	3.32	23.40	—	—	—
10.73	11	11.28	5	30	MAZ8110GMLCT-ND◆	.38	2.97	20.89	—	—	—
10.73	11	11.28	5	30	DZ2J110M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J110M0LTR-ND◆ ***NEW!***	3,000	85.45/M
11.4	12	12.7	5	30	MAZ81200MLCT-ND◆	.43	3.32	23.40	—	—	—
11.73	12	12.33	5	30	MAZ8120GMLCT-ND◆	.38	2.97	20.89	—	—	—
12.4	13	14.1	5	35	MAZ81300MLCT-ND◆	.43	3.32	23.40	—	—	—
12.73	13	13.4	5	35	MAZ8130GMLCT-ND◆	.38	2.97	20.89	MAZ8130GMLTR-ND◆	3,000	85.47/M
12.74	13	13.4	5	35	DZ2J130M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J130M0LTR-ND◆ ***NEW!***	3,000	85.45/M
13.30	14	14.70	5	40	DZ2J14000LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J14000LTR-ND◆ ***NEW!***	3,000	85.45/M
13.65	14	14.35	5	40	MAZ8140GMLCT-ND◆	.38	2.97	20.89	MAZ8140GMLTR-ND◆	3,000	85.47/M
13.65	14	14.35	5	40	DZ2J140M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J140M0LTR-ND◆ ***NEW!***	3,000	85.45/M
13.9	15	15.6	5	40	MAZ81500MLCT-ND◆	.43	3.32	23.40	MAZ81500MLTR-ND◆	3,000	96.00/M
14.61	15	15.35	5	40	DZ2J150M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J150M0LTR-ND◆ ***NEW!***	3,000	85.45/M
15.30	16	16.80	5	50	DZ2J16000LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J16000LTR-ND◆ ***NEW!***	3,000	85.45/M
15.7	16	16.5	5	50	DZ2J160M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J160M0LTR-ND◆ ***NEW!***	3,000	85.45/M
16.9	18	19.1	5	60	MAZ81800MLCT-ND◆	.43	3.32	23.40	—	—	—
17.55	18	18.45	5	60	MAZ8180GMLCT-ND◆	.38	2.97	20.89	—	—	—
17.55	18	18.45	5	60	DZ2J180M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J180M0LTR-ND◆ ***NEW!***	3,000	85.45/M
19.5	20	20.5	5	80	DZ2J200M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J200M0LTR-ND◆ ***NEW!***	3,000	85.45/M
20.8	22	23.3	5	80	MAZ82200MLCT-ND	.43	3.32	23.40	MAZ82200MLTR-ND	3,000	96.00/M
21.45	22	22.55	5	80	MAZ8220GMLCT-ND◆	.38	2.97	20.89	MAZ8220GMLTR-ND◆	3,000	85.47/M
22.8	24	25.6	5	100	MAZ82400MLCT-ND	.43	3.32	23.40	—	—	—
22.80	24	25.20	5	100	DZ2J24000LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J24000LTR-ND◆ ***NEW!***	3,000	85.45/M
23.5	24	24.7	5	100	DZ2J240M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J240M0LTR-ND◆ ***NEW!***	3,000	85.45/M
25.3	26	26.7	2	120	MAZ82700LLCT-ND◆	.38	2.97	20.89	MAZ82700LLTR-ND◆	3,000	85.00/M
25.3	26	26.7	2	120	MAZ8270GLLCT-ND◆	.38	2.97	20.89	MAZ8270GLLTR-ND◆	3,000	85.45/M
26.3	27	27.7	2	120	MAZ8270GMLCT-ND◆	.38	2.97	20.89	MAZ8270GMLTR-ND◆	3,000	85.47/M
28	30	32	2	160	MAZ83000MLCT-ND	.38	2.95	20.77	MAZ83000MLTR-ND	3,000	85.00/M
29.3	30	30.8	2	160	MAZ8300GMLCT-ND◆	.34	2.63	18.55	MAZ8300GMLTR-ND◆	3,000	75.87/M
32.2	33	33.8	2	200	MAZ8330GMLCT-ND◆	.38	2.97	20.89	—	—	—
32.2	33	33.8	2	200	DZ2J330M0LCT-ND◆ ***NEW!***	.38	2.97	20.89	DZ2J330M0LTR-ND◆ ***NEW!***	3,000	85.45/M
34	36	38	2	250	MAZ83600MLCT-ND	.43	3.32	23.40	—	—	—
35.1	36	36.9	2	250	MAZ8360GMLCT-ND◆	.38	2.97	20.89	—	—	—
38	39	40	2	300	MAZ83900MLCT-ND◆	.34	2.63	18.55	MAZ83900MLTR-ND◆	3,000	76.00/M
38	39	40	2	300	MAZ8390GMLCT-ND◆	.34	2.63	18.55	MAZ8390GMLTR-ND◆	3,000	75.87/M
S-Mini Type Package 3 Pin — 150mW — RoHS Compliant											
5.9	6.2	6.5	5	30	MAZE062D0LCT-ND	.60	4.78	35.86	MAZE062D0LTR-ND	3,000	159.00/M
S-Mini Type Package 5-Pin — MAZZ000H Series — 200mW — RoHS Compliant											
6.4	6.8	7.2	5	30	MAZZ068H0LCT-ND	.49	3.67	27.54	MAZZ068H0LTR-ND	3,000	159.00/M
11.4	12.0	12.7	5	30	MAZZ120H0LCT-ND	.59	4.43	33.20	MAZZ120H0LTR-ND	3,000	192.00/M
SS-Mini Type Package 2-Pin											
2.28	2.4	2.6	5	100	MAZS02400LCT-ND◆	.39	3.13	21.49	—	—	—
2.28	2.4	2.6	5	100	MAZS024G0LCT-ND◆	.39	3.13	21.49	—	—	—
2.28	2.4	2.52	5	100	DZ2S02400LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S02400LTR-ND◆ ***NEW!***	3,000	101.49/M
2.5	2.6	2.75	5	110	MAZS0270LLCT-ND◆	.40	3.34	26.74	—	—	—
2.57	2.7	2.84	5	110	DZ2S02700LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S02700LTR-ND◆ ***NEW!***	3,000	101.49/M
2.8	2.9	3.05	5	120	MAZS0300LLCT-ND◆	.39	3.13	21.49	MAZS0300LLTR-ND◆	3,000	101.00/M
2.95	3.1	3.2	5	120	MAZS0300HLCT-ND◆	.40	3.34	26.74	MAZS0300HLTR-ND◆	3,000	107.00/M
3.1	3.3	3.5	5	130	MAZS033G0LCT-ND◆	.39	3.13	21.49	MAZS033G0LTR-ND◆	3,000	101.49/M
3.22	3.3	3.38	5	130	DZ2S033M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S033M0LTR-ND◆ ***NEW!***	3,000	101.49/M
3.14	3.3	3.47	5	130	DZ2S03300LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S03300LTR-ND◆ ***NEW!***	3,000	101.49/M
3.25	3.4	3.5	5	130	MAZS033GHLCT-ND◆	.39	3.13	21.49	—	—	—
3.55	3.7	3.8	5	130	MAZS0360HLCT-ND◆	.40	3.34	26.74	MAZS0360HLTR-ND◆	3,000	107.00/M
3.42	3.6	3.78	5	130	DZ2S03600LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S03600LTR-ND◆ ***NEW!***	3,000	101.49/M
3.51	3.6	3.69	5	130	DZ2S036M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S036M0LTR-ND◆ ***NEW!***	3,000	101.49/M
3.71	3.9	4.1	5	130	DZ2S03900LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S03900LTR-ND◆ ***NEW!***	3,000	101.49/M
4.17	4.3	4.4	5	130	MAZS043GMLCT-ND◆	.39	3.13	21.49	—	—	—
4.4	4.7	5.0	5	80	MAZS0470MLCT-ND◆	.40	3.34	26.74	—	—	—
4.59	4.7	4.83	5	80	MAZS047GMLCT-ND◆	.39	3.13	21.49	MAZS047GMLTR-ND◆	3,000	101.49/M
4.85	5.1	5.36	5	60	DZ2S05100LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S05100LTR-ND◆ ***NEW!***	3,000	101.49/M
5.0	5.1	5.26	5	60	DZ2S051M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S051M0LTR-ND◆ ***NEW!***	3,000	101.49/M
5.3	5.6	6.0	5	40	MAZS0560MLCT-ND◆	.40	3.34	26.74	—	—	—
5.32	5.6	5.88	5	40	DZ2S05600LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S05600LTR-ND◆ ***NEW!***	3,000	101.49/M
5.48	5.6	5.76	5	40	DZ2S056M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S056M0LTR-ND◆ ***NEW!***	3,000	101.49/M
5.8	6.2	6.6	5	30	MAZS0620MLCT-ND◆	.40	3.34	26.74	—	—	—
6.05	6.2	6.36	5	30	MAZS062GMLCT-ND◆	.39	3.13	21.49	MAZS062GMLTR-ND◆	3,000	101.49/M
5.89	6.2	6.51	5	30	DZ2S06200LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S06200LTR-ND◆ ***NEW!***	3,000	101.49/M

◆ ***RoHS Compliant***

S-Mini Type Package (2-pin)

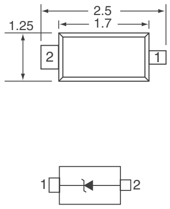

S-Mini Type Package (3-pin)

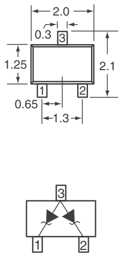

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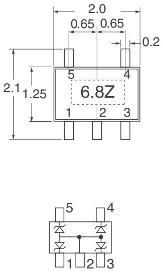

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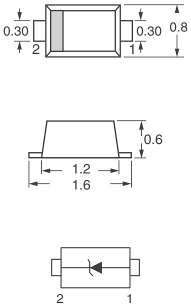

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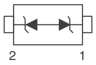

(Continued)

Panasonic® Zener Diodes Silicon Planar Type *(Cont.)*

Zener Voltage VZ			IZ (mA)	RZ (max.) (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
Min.	Nom.	Max.				1	10	100		Qty.	Pricing
6.05	6.2	6.36	5	30	DZ2S062M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S062M0LTR-ND◆ ***NEW!***	3,000	101.49/M
6.64	6.8	6.98	5	20	MAZS068GMLCT-ND◆	.39	3.13	21.49	MAZS068GMLTR-ND◆	3,000	101.49/M
6.46	6.8	7.14	5	20	DZ2S06800LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S06800LTR-ND◆ ***NEW!***	3,000	101.49/M
6.64	6.8	6.98	5	20	DZ2S068M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S068M0LTR-ND◆ ***NEW!***	3,000	101.49/M
7.0	7.5	7.9	5	20	MAZS0750MLCT-ND◆	.40	3.34	26.74	MAZS0750MLTR-ND◆	3,000	107.00/M
7.29	7.5	7.67	5	20	MAZS075GMLCT-ND◆	.39	3.13	21.49	MAZS075GMLTR-ND◆	3,000	101.49/M
7.7	8.2	8.7	5	20	MAZS0820MLCT-ND◆	.40	3.34	26.74	—	—	—
7.79	8.2	8.61	5	20	DZ2S08200LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S08200LTR-ND◆ ***NEW!***	3,000	101.49/M
8.87	9.1	9.33	5	20	MAZS091GMLCT-ND◆	.39	3.13	21.49	—	—	—
9.4	10	10.6	5	30	MAZS1000MLCT-ND◆	.40	3.34	26.74	MAZS1000MLTR-ND◆	3,000	107.00/M
9.75	10	10.25	5	30	MAZS100GMLCT-ND◆	.39	3.13	21.49	MAZS100GMLTR-ND◆	3,000	101.49/M
10.73	11	11.28	5	30	MAZS1100MLCT-ND	.40	3.34	26.74	—	—	—
10.73	11	11.28	5	30	MAZS110GMLCT-ND◆	.39	3.13	21.49	MAZS110GMLTR-ND◆	3,000	101.49/M
11.73	12	12.33	5	30	DZ2S120M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S120M0LTR-ND◆ ***NEW!***	3,000	101.49/M
12.73	13	13.4	5	35	MAZS1300MLCT-ND◆	.40	3.34	26.74	MAZS1300MLTR-ND◆	3,000	107.00/M
12.73	13	13.4	5	35	MAZS130GMLCT-ND◆	.39	3.13	21.49	MAZS130GMLTR-ND◆	3,000	101.49/M
14.6	15	15.35	5	40	MAZS1500MLCT-ND◆	.40	3.34	26.74	—	—	—
14.60	15	15.35	5	40	MAZS150GMLCT-ND◆	.39	3.13	21.49	MAZS150GMLTR-ND◆	3,000	101.49/M
15.7	16	16.5	5	50	MAZS160GMLCT-ND◆	.39	3.13	21.49	MAZS160GMLTR-ND◆	3,000	101.49/M
17.55	18	18.45	5	60	MAZS1800MLCT-ND◆	.40	3.34	26.74	MAZS1800MLTR-ND◆	3,000	107.00/M
17.55	18	18.45	5	60	MAZS180GMLCT-ND◆	.39	3.13	21.49	—	—	—
17.55	18	18.45	5	60	DZ2S180M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S180M0LTR-ND◆ ***NEW!***	3,000	101.49/M
19.5	20	20.5	5	80	MAZS2000MLCT-ND	.40	3.34	26.74	—	—	—
19.5	20	20.5	5	80	DZ2S200M0LCT-ND◆ ***NEW!***	.39	3.13	21.49	DZ2S200M0LTR-ND◆ ***NEW!***	3,000	101.49/M
20.8	22	23.3	5	80	MAZS2200MLCT-ND◆	.40	3.34	26.74	—	—	—
21.45	22	22.55	5	80	MAZS220GMLCT-ND◆	.39	3.13	21.49	MAZS220GMLTR-ND◆	3,000	101.49/M
23.5	24	24.7	5	100	MAZS2400MLCT-ND◆	.39	3.13	21.49	—	—	—
23.5	24	24.7	5	100	MAZS240GMLCT-ND◆	.39	3.13	21.49	MAZS240GMLTR-ND◆	3,000	101.49/M
26.3	27	27.7	2	120	MAZS2700MLCT-ND	.40	3.34	26.74	MAZS2700MLTR-ND	3,000	107.00/M
26.3	27	27.7	2	120	MAZS270GMLCT-ND◆	.39	3.13	21.49	MAZS270GMLTR-ND◆	3,000	101.49/M
30.2	31	31.8	2	160	MAZS3000HLCT-ND◆	.39	3.13	21.49	—	—	—
32.2	33	33.8	2	200	MAZS3300MLCT-ND◆	.40	3.34	26.74	—	—	—
32.2	33	33.8	2	200	MAZS330GMLCT-ND◆	.39	3.13	21.49	MAZS330GMLTR-ND◆	3,000	101.49/M
34	36	38	2	250	MAZS3600MLCT-ND◆	.40	3.34	26.74	MAZS3600MLTR-ND◆	3,000	107.00/M
35.1	36	36.9	2	250	MAZS360GMLCT-ND◆	.39	3.13	21.49	MAZS360GMLTR-ND◆	3,000	101.49/M
37.1	38	39	2	300	MAZS39000LCT-ND◆	.39	3.13	21.49	—	—	—
37.1	39	41	2	300	MAZS390G0LCT-ND◆	.39	3.13	21.49	MAZS390G0LTR-ND◆	3,000	101.49/M
SS-Mini Type Package 3-Pin — MAZT000H Series — 150mW											
5.8	6.2	6.6	5	50	MAZT062H0LCT-ND◆	.45	3.76	30.06	MAZT062H0LTR-ND◆	3,000	120.00/M
5.8	6.2	6.6	5	50	MAZT062HGLCT-ND◆	.45	3.76	30.06	MAZT062HGLTR-ND◆	3,000	120.23/M
7.7	8.2	8.7	5	30	MAZT082H0LCT-ND	.42	3.37	25.25	MAZT082H0LTR-ND	3,000	112.00/M
SS-Mini Type Package 5-Pin — 150mW — RoHS Compliant											
5.8	6.2	6.6	5	50	MAZM062H0LCT-ND	.69	5.16	38.73	MAZM062H0LTR-ND	3,000	224.00/M
5.8	6.2	6.6	5	50	MAZM062HGLCT-ND	.69	5.16	38.73	MAZM062HGLTR-ND	3,000	223.77/M
6.4	6.8	7.2	5	30	MAZM068H0LCT-ND	.69	5.16	38.73	MAZM068H0LTR-ND	3,000	224.00/M
6.4	6.8	7.2	5	30	MAZM068HGLCT-ND	.69	5.16	38.73	MAZM068HGLTR-ND	3,000	223.79/M
11.4	12	12.7	5	30	MAZM120H0LCT-ND	.69	5.16	38.73	MAZM120H0LTR-ND	3,000	224.00/M
11.4	12	12.7	5	30	MAZM120HGLCT-ND	.69	5.16	38.73	MAZM120HGLTR-ND	3,000	223.77/M
SSS-Mini Type Package 2-Pin — 120mW — RoHS Compliant											
4.8	5.1	5.4	5	60	MAZD05100LCT-ND	.42	3.50	27.98	MAZD05100LTR-ND	10,000	98.00/M
5.3	5.6	6.0	5	40	MAZD056G0LCT-ND	.42	3.50	27.98	MAZD056G0LTR-ND	10,000	97.93/M
5.8	6.2	6.6	5	30	MAZD06200LCT-ND	.49	3.93	29.51	MAZD06200LTR-ND	10,000	123.00/M
5.8	6.2	6.6	5	30	MAZD062G0LCT-ND	.49	3.93	29.51	MAZD062G0LTR-ND	10,000	122.95/M
6.4	6.8	7.2	5	20	MAZD06800LCT-ND	.49	3.93	29.51	MAZD06800LTR-ND	10,000	123.00/M
6.4	6.8	7.2	5	20	MAZD068G0LCT-ND	.49	3.93	29.51	MAZD068G0LTR-ND	10,000	122.95/M
8.5	9.1	9.6	5	20	MAZD09100LCT-ND	.42	3.50	27.98	—	—	—
8.5	9.1	9.6	5	20	MAZD091G0LCT-ND	.42	3.50	27.98	MAZD091G0LTR-ND	10,000	97.93/M
9.4	10	10.6	5	30	MAZD10000LCT-ND	.49	3.93	29.51	MAZD10000LTR-ND	10,000	123.00/M
9.4	10	10.6	5	30	MAZD100G0LCT-ND	.49	3.93	29.51	MAZD100G0LTR-ND	10,000	122.95/M
11.4	12	12.7	5	30	MAZD12000LCT-ND	.49	3.93	29.51	MAZD12000LTR-ND	10,000	123.00/M
11.4	12	12.7	5	30	MAZD120G0LCT-ND	.49	3.93	29.51	MAZD120G0LTR-ND	10,000	122.95/M
15.3	16	17.1	5	50	MAZD16000LCT-ND	.42	3.50	27.98	MAZD16000LTR-ND	10,000	98.00/M
18.8	20	21.2	5	80	MAZD20000LCT-ND	.42	3.50	27.98	MAZD20000LTR-ND	10,000	98.00/M
28	30	32	2	160	MAZD30000LCT-ND	.42	3.50	27.98	MAZD30000LTR-ND	10,000	98.00/M
28	30	32	2	160	MAZD300G0LCT-ND	.42	3.50	27.98	MAZD300G0LTR-ND	10,000	97.93/M
SSS-Mini Type Package 3-Pin — 150mW — RoHS Compliant											
6.4	6.8	7.2	5	30	MAZW068H0LCT-ND	.59	4.43	33.20	MAZW068H0LTR-ND	10,000	184.00/M
6.4	6.8	7.2	5	30	MAZW068HGLCT-ND	.59	4.43	33.20	MAZW068HGLTR-ND	10,000	184.44/M
7.7	8.2	8.7	5	30	MAZW082H0LCT-ND	.54	4.28	32.13	—	—	—
7.7	8.2	8.7	5	30	MAZW082HGLCT-ND	.48	3.83	28.69	MAZW082HGLTR-ND	10,000	119.54/M
1008 Leadless Package 4-Pin — 100mW											
7.7	8.2	8.7	5	20	MAZR08200ACT-ND	.43	3.43	25.74	MAZR08200ATR-ND	10,000	107.00/M
7.7	8.2	8.7	5	20	MAZR082H0ACT-ND	.69	5.15	38.61	MAZR082H0ATR-ND	10,000	214.00/M

◆ ***RoHS Compliant***

SS-Mini Type Package (3-pin)

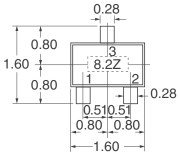

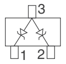

SS-Mini Type Package (5-pin)

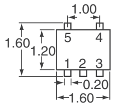

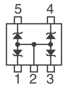

SSS-Mini Type Package (2-pin)

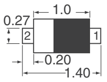

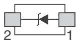

SSS-Mini Type Package (3-pin)

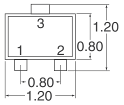

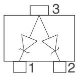

(Continued)

Panasonic Zener Diodes Silicon Planar Type *(Cont.)*

DigiReel®

Zener Voltage VZ			IZ (mA)	RZ (max.) (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
Min.	Nom.	Max.				1	10	100		Qty.	Pricing
DO-41 Package 1W — RoHS Compliant											
4.8	5.1	5.4	40	10	MAZ20510AGCT-ND	.55	4.15	31.12	—	—	—
5.2	5.6	6.0	40	8	MAZ20560A0GCT-ND	.55	4.15	31.12	—	—	—
5.8	6.2	6.6	40	6	MAZ20620AGCT-ND	.55	4.15	31.12	—	—	—
7.0	7.45	7.9	40	5	MAZ20750AGCT-ND	.55	4.15	31.12	—	—	—
7.7	8.2	8.7	40	5	MAZ20820AGCT-ND	.55	4.15	31.12	—	—	—
8.5	9.05	9.6	40	6	MAZ20910AGCT-ND	.55	4.15	31.12	—	—	—
9.4	10	10.6	20	6	MAZ210000GCT-ND	.55	4.15	31.12	—	—	—
10.4	11	11.6	20	8	MAZ21100BGCT-ND	.55	4.15	31.12	—	—	—
11.4	12.05	12.7	20	8	MAZ21200AGCT-ND	.55	4.15	31.12	—	—	—
12.4	13.25	14.1	20	10	MAZ21300AGCT-ND	.55	4.15	31.12	—	—	—
13.8	14.7	15.6	20	12	MAZ215000GCT-ND	.55	4.15	31.12	—	—	—
15.3	16.2	17.1	20	12	MAZ21600AGCT-ND	.55	4.15	31.12	—	—	—
16.8	17.95	19.1	20	15	MAZ21800AGCT-ND	.55	4.15	31.12	—	—	—
18.8	20	21.2	20	15	MAZ220000GCT-ND	.55	4.15	31.12	—	—	—
20.8	22.05	23.3	10	20	MAZ222000GCT-ND	.55	4.15	31.12	—	—	—
22.8	24.2	25.6	10	20	MAZ224000GCT-ND	.55	4.15	31.12	—	—	—
25.1	27	28.9	10	25	MAZ22700AGCT-ND	.55	4.15	31.12	—	—	—
31	33	35	10	30	MAZ23300AGCT-ND	.55	4.15	31.12	—	—	—
34	36	38	10	30	MAZ23600AGCT-ND	.55	4.15	31.12	—	—	—
37	39	41	10	50	MAZ239000GCT-ND	.55	4.15	31.12	—	—	—
40	43	46	10	50	MAZ243000GCT-ND	.55	4.15	31.12	—	—	—
44	47	50	10	50	MAZ247000GCT-ND	.55	4.15	31.12	—	—	—
48	51	54	10	50	MAZ251000GCT-ND	.55	4.15	31.12	—	—	—
52	56	60	10	50	MAZ256000GCT-ND	.55	4.15	31.12	—	—	—
DO-34 Package 370mW — RoHS Compliant											
2.28	2.49	2.7	5	2000	MAZ40240LFCT-ND	.33	2.49	17.26	—	—	—
2.5	2.7	2.9	5	1000	MAZ402700FCT-ND	.33	2.49	17.26	—	—	—
3.4	3.6	3.8	5	1000	MAZ40360MFCT-ND	.33	2.49	17.26	—	—	—
3.7	3.9	4.1	5	1000	MAZ40390MFCT-ND	.33	2.49	17.26	—	—	—
4	4.3	4.6	5	1000	MAZ40430MFCT-ND	.33	2.49	17.26	—	—	—
4.8	5.1	5.4	5	800	MAZ40510MFCT-ND	.33	2.49	17.26	—	—	—
7.0	7.45	7.9	5	120	MAZ40750MFCT-ND	.33	2.49	17.26	—	—	—
8.5	9.05	9.6	5	130	MAZ409100FCT-ND	.33	2.49	17.26	—	—	—
9.4	10	10.6	5	130	MAZ410000FCT-ND	.33	2.49	17.26	—	—	—
10.4	11	11.6	5	170	MAZ41100MFCT-ND	.33	2.49	17.26	—	—	—
11.4	12.05	12.7	5	170	MAZ41200MFCT-ND	.33	2.49	17.26	—	—	—
12.4	13.25	14.1	5	170	MAZ41300MFCT-ND	.33	2.49	17.26	—	—	—
15.3	16.2	17.1	5	170	MAZ41600MFCT-ND	.33	2.49	17.26	—	—	—
20.8	22.05	23.3	5	180	MAZ42200MFCT-ND	.33	2.49	17.26	—	—	—
25.1	27	28.9	2	200	MAZ42700MFCT-ND	.33	2.49	17.26	—	—	—
28	30	32	2	200	MAZ43000MFCT-ND	.33	2.49	17.26	—	—	—
31	33	35	2	200	MAZ43300MFCT-ND	.33	2.49	17.26	—	—	—
37	39	41	2	250	MAZ43900MFCT-ND	.33	2.49	17.26	—	—	—

◆ *RoHS Compliant*

Zener Voltage VZ			IR (µA) Max.	Ct (pF)	ESD (kV)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
Min.	Nom.	Max.					1	10	100		Qty.	Pricing
SS-Mini Type Package 2-Pin — ESD Protection — RoHS Compliant												
6.4	6.8	7.2	0.5	50	30	MALS06800LCT-ND	.51	4.04	30.34	MALS06800LTR-ND	3,000	134.00/M
6.5	7.0	7.5	0.05	15	15	DZ2S068C0LCT-ND ***NEW!***	.50	3.75	28.12	DZ2S068C0LTR-ND ***NEW!***	3,000	162.46/M
6.0	7.5	—	2.0	1.5	12	MAYS0750ZLCT-ND	.67	5.06	37.92	—	—	—
6.0	7.5	—	2.0	1.5	12	MAYS075GZLCT-ND	.67	5.06	37.92	—	—	—
SS-Mini Type Package 3-Pin — ESD Protection — RoHS Compliant												
5.8	6.2	6.6	1.0	55	30	MALT062H0LCT-ND	.63	4.69	35.16	MALT062H0LTR-ND	3,000	203.00/M
SS-Mini Type Package 5-Pin — ESD Protection — RoHS Compliant												
5.8	6.2	6.6	1.0	55	30	MALM062H0LCT-ND	.51	3.86	28.96	MALM062H0LTR-ND	3,000	167.00/M

1008 Leadless Package (4-pin)

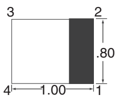

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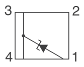

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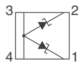

DO-41 Package

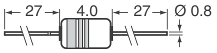

DO-34 Package

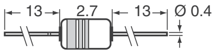

Varistor Diodes

DigiReel®

RoHS COMPLIANT

S-Mini Type (2-pin)

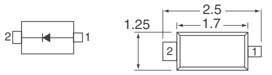

Mini Type (3-pin)

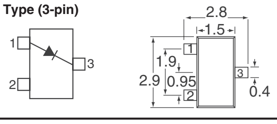

DO-34 Dim. in mm

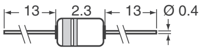

Package	VR (V)	IFM (mA)	VF		IR @ 6V (µA)	-ΔVF/ΔT Tj = 25°C ~ 125°C		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			(V)	(mA)		(mV/°C)	(mA)		1	10	100		Qty.	Pricing
S-Mini (2)	6	150	0.56 ~ 0.61	1.5	1	2.0	1.5	MA2Z0300ALCT-ND	.55	4.41	33.10	—	—	—
	6	150	0.56 ~ 0.61	1.5	1	2.0	3.0	MA3X0280BLCT-ND	.45	3.62	27.15	—	—	—
Mini (3)	6	70	1.76 ~ 1.92	3.0	1	6.5	3.0	MA3X028TALCT-ND	.45	3.62	27.15	MA3X028TALTR-ND	3,000	120.00/M
	6	100	1.18 ~ 1.28	3.0	1	4.6	3.0	MA3X028WALCT-ND	.45	3.62	27.15	MA3X028WALTR-ND	3,000	120.00/M
DO-34	6	50	0.59 ~ 0.64	1.5	10	2.0	1.5	MA2C0290BFCT-ND	.58	4.36	30.21	—	—	—
	6	50	1.60	10	1	8.8	3.0	MA2C029QAFCT-ND	1.33	9.96	69.06	—	—	—
	6	70	1.15	10	1	6.5	3.0	MA2C029TAFCT-ND	1.25	9.34	64.74	—	—	—
	6	100	0.77	10	1	4.6	3.0	MA2C029WAFCT-ND	.91	6.85	47.48	—	—	—

Transistors

Fig.	Package	VCEO (V)	VCBO (V)	IC (mA)	hFE		FT Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
					Min.	Max.			1	25	100	Qty.	Pricing	
								NPN						
1	SOT-23	15	40	200	40	120	500	568-1739-1-ND	.35	3.75	10.00	3,000	32.00/M	PMBT2369,215
	SOT-23	20	30	1000	300	—	100	568-4342-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS4120T,215
	SOT-23	20	20	2000	200	—	100	568-4157-1-ND▲	.66	11.55	39.60	3,000	186.00/M	PBSS4320T,215
	SOT-23	20	20	4300	300	500	165	568-5075-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4021NT,215
	SOT-23	30	40	1000	300	450	100	568-3230-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS4130T,215
	SOT-23	30	30	100	200	450	100	568-4868-1-ND ***NEW!***	.26	2.81	7.50	3,000	24.00/M	BC848B,215
	SOT-23	30	40	2000	150	250	100	568-4155-1-ND	.50	8.66	29.70	3,000	140.00/M	PBSS4230T,215
	SOT-23	30	30	2600	300	500	180	568-5072-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4032NT,215
	SOT-23	40	60	600	100	300	250	568-1743-1-ND	.27	2.93	7.80	3,000	25.00/M	PMBT4401,215
	SOT-23	40	40	1000	200	—	150	568-4154-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS4140T,215
	SOT-23	40	40	2000	150	250	100	568-4156-1-ND	.66	11.55	39.60	3,000	186.00/M	PBSS4240T,215
	SOT-23	40	60	200	100	300	300	568-1741-1-ND	.26	2.81	7.50	3,000	24.00/M	PMBT3904,215
	SOT-23	40	60	200	100	300	300	568-4510-1-ND	.26	2.81	7.50	3,000	24.00/M	MMBT3904,215
	SOT-23	40	75	600	100	300	300	568-4509-1-ND	.27	2.93	7.80	3,000	25.00/M	MMBT2222A,215
	SOT-23	40	75	600	100	300	300	568-1738-1-ND	.25	2.70	7.20	3,000	23.00/M	PMBT2222A,215
	SOT-23	45	75	500	160	400	80	568-1630-1-ND	.28	3.00	8.00	3,000	25.00/M	BC817-25,215
	SOT-23	45	50	500	160	400	80	568-1631-1-ND	.28	3.00	8.00	3,000	25.00/M	BC817-40,215
	SOT-23	45	50	100	200	450	100	568-1633-1-ND	.26	2.81	7.50	3,000	24.00/M	BC847B,215
	SOT-23	45	50	100	420	800	100	568-1636-1-ND	.26	2.81	7.50	3,000	24.00/M	BC847C,215
	SOT-23	45	50	100	110	220	100	568-4867-1-ND ***NEW!***	.26	2.81	7.50	3,000	24.00/M	BC847A,215
	SOT-23	45	50	500	100	250	100	568-4865-1-ND ***NEW!***	.28	3.00	8.00	3,000	25.00/M	BC817-16,215
	SOT-23	50	60	100	210	340	100	568-4661-1-ND	.53	6.04	16.80	3,000	49.00/M	2PD601ARL,215
	SOT-23	50	60	100	290	460	100	568-4662-1-ND	.53	6.04	16.80	3,000	49.00/M	2PD601ASL,215
	SOT-23	50	60	500	85	170	140	568-4663-1-ND	.43	6.02	18.30	3,000	61.00/M	2PD602AQL,215
	SOT-23	50	60	500	120	240	160	568-4664-1-ND	.43	6.02	18.30	3,000	61.00/M	2PD602ARL,215
	SOT-23	50	60	500	170	340	180	568-4665-1-ND	.43	6.02	18.30	3,000	61.00/M	2PD602ASL,215
	SOT-23	60	80	1000	200	—	150	568-4343-1-ND▲	.53	9.19	31.52	3,000	148.00/M	PBSS4160T,215
	SOT-23	60	80	500	2000	—	220	568-5010-1-ND ***NEW!***	.47	6.58	19.98	3,000	78.00/M	BCV47,215
	SOT-23	60	60	3800	120	—	175	568-5069-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4041NT,215
	SOT-23	65	80	100	110	450	100	568-4866-1-ND ***NEW!***	.26	2.81	7.50	3,000	24.00/M	BC846A,215
	SOT-23	65	80	100	200	450	100	568-1632-1-ND	.26	2.81	7.50	3,000	24.00/M	BC846B,215
	SOT-23	80	80	500	100	—	100	568-1745-1-ND	.35	3.75	10.00	3,000	32.00/M	PMBTA06,215
	SOT-23	100	120	1000	150	500	100	568-4344-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS8110T,215
	SOT-23	160	180	300	80	250	300	568-5034-1-ND ***NEW!***	.50	5.40	14.40	3,000	40.00/M	PMBT5551,215
	SOT-23	300	300	100	40	—	50	568-1746-1-ND	.39	4.49	12.48	3,000	43.00/M	PMBTA42,215
2A	SOT-363	45	50	100	200	450	100	568-1635-1-ND	.50	5.75	16.00	3,000	55.00/M	BC847BS,115
3A	SOT-223	20	20	5800	200	350	140	568-4179-1-ND	.95	18.75	67.50	4,000	350.00/M	PBSS302NZ,135
	SOT-223	40	40	5000	100	300	70	568-4162-1-ND	.77	14.88	52.50	1,000	280.00	PBSS4540Z,115
	SOT-223	40	60	600	100	300	150	568-2456-1-ND	.64	10.56	34.67	1,000	178.00	PZT4401,115
	SOT-223	50	60	3000	100	—	100	568-4160-1-ND	.50	8.66	29.70	4,000	140.00/M	PBSS4350Z,135
	SOT-223	80	80	5100	50	80	110	568-4181-1-ND	.99	19.50	70.20	4,000	319.00/M	PBSS305NZ,135
	SOT-223	80	100	1000	40	250	130	568-1639-1-ND	.50	7.24	23.35	1,000	110.00	BCP56,115
	SOT-223	40	75	600	100	300	300	568-4879-1-ND ***NEW!***	.58	9.50	31.20	1,000	160.00	PZT2222A,115
	SOT-223	45	45	1A	100	250	180	568-5008-1-ND ***NEW!***	.59	8.62	27.80	1,000	118.00	BCP54-16,115
	SOT-223	80	100	1A	100	250	180	568-5009-1-ND ***NEW!***	.50	7.24	23.35	1,000	110.00	BCP56-16,115
4	SC-75	15	15	500	90	—	250	568-4148-1-ND	.44	7.24	23.79	3,000	101.00/M	PBSS2515E,115
5	SOT-89	20	20	5300	200	380	140	568-4173-1-ND	.99	19.13	67.50	1,000	473.00	PBSS302NX,115
	SOT-89	40	60	100	100	300	300	568-1181-1-ND	.55	9.63	33.00	1,000	200.00	PXT2222A,115
	SOT-89	50	50	3000	100	—	100	568-4159-1-ND	.62	10.09	33.15	1,000	115.00	PBSS4350X,115
	SOT-89	60	60	1A	100	250	180	568-5011-1-ND ***NEW!***	.53	7.75	25.00	1,000	118.00	BCX55-16,115
	SOT-89	80	80	4600	70	110	110	568-4177-1-ND	.99	19.50	70.20	1,000	236.00	PBSS305NX,115
	SOT-89	80	100	1000	100	250	130	568-1642-1-ND	.53	7.75	25.00	1,000	118.00	BCX56-16,115
	SOT-89	80	100	1A	63	160	180	568-5012-1-ND ***NEW!***	.53	7.75	25.00	1,000	118.00	BCX56-10-115
6A	SC-74	20	20	4000	100	230	100	568-4149-1-ND	.73	14.03	49.50	3,000	239.00/M	PBSS301ND,115
	SC-74	30	30	359	250	—	135	568-5073-1-ND ***NEW!***	.61	10.59	36.30	3,000	171.00/M	PBSS4032ND,115
	SC-74	40	60	4000	50	—	150	568-4151-1-ND	.73	14.03	49.50	3,000	182.00/M	PBSS302ND,115
	SC-74	50	60	3000	100	—	100	568-4158-1-ND	.50	8.66	29.70	3,000	140.00/M	PBSS4350D,115
	SC-74	80	80	3000	25	40	140	568-4175-1-ND	.59	11.39	40.19	—	—	PBSS304ND,115
7	SC70-3	40	75	600	100	300	300	568-4522-1-ND	.38	4.31	12.00	3,000	41.00/M	PMST2222A,115
	SOT-323	40	60	200	100	300	300	568-4878-1-ND ***NEW!***	.47	4.99	13.30	3,000	37.00/M	PMST3904,115
	SOT-323	45	50	100	420	800	100	568-5006-1-ND ***NEW!***	.33	3.53	9.40	3,000	35.00/M	BC847CW,115
								PNP						
1	SOT-23	20	20	1000	250	—	100	568-4345-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS5120T,215
	SOT-23	20	20	2000	100	—	100	568-4166-1-ND▲	.39	6.40	21.02	3,000	93.00/M	PBSS5320T,215
	SOT-23	20	20	3500	140	—	155	568-5074-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4021PT,215
	SOT-23	30	30	1000	260	—	100	568-4346-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS5130T,215
	SOT-23	30	30	2400	150	—	160	568-5070-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4032PT,215
	SOT-23	40	40	1000	160	—	150	568-4163-1-ND▲	.53	9.19	31.52	3,000	145.00/M	PBSS5140T,215
	SOT-23	40	40	2000	100	180	100	568-4165-1-ND	.66	11.55	39.60	3,000	186.00/M	PBSS5240T,215
	SOT-23	40	40	200	100	300	250	568-1742-1-ND	.26	2.81	7.50	3,000	24.00/M	PMBT3906,215
	SOT-23	40	40	200	100	300	250	568-4511-1-ND	.26	2.81	7.50	3,000	24.00/M	MMBT3906,215
	SOT-23	40	40	600	100	300	200	568-1744-1-ND	.27	2.93	7.80	3,000	25.00/M	PMBT4403,215
	SOT-23	40	40	100	220	475	100	568-1638-1-ND	.28	3.00	8.00	3,000	25.00/M	BC857B,215
	SOT-23	45	45	100	210	340	70	568-4657-1-ND	.53	6.04	16.80	3,000	49.00/M	2PB709ARL,215
	SOT-23	45	45	100	290	460	80	568-4658-1-ND	.53	6.04	16.80	3,000	49.00/M	2PB709ASL,215
	SOT-23	45	50	500	100	600	80	568-1640-1-ND	.39	4.49	12.48	3,000	43.00/M	BCX17,215
	SOT-23	45	50	500	250	600	80	568-1629-1-ND	.28	3.00	8.00	3,000	25.00/M	BC807-40,215

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Fig. 1

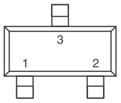

1. Base
2. Emitter
3. Collector

Fig. 2

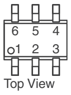

A	B
1,4 Emitter	1,4 Base
2,5 Base	2,5 Emitter
3,6 Collector	3,6 Collector

Fig. 3

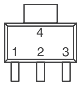

A
1. Base
2. Collector
3. Emitter
4. Collector

B
1. Emitter
2. Base
3. Emitter
4. Collector

C
1. Base
2. Collector
3. Collector
4. Emitter

Fig. 4

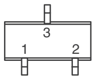

1. Base
2. Emitter
3. Collector

Fig. 5

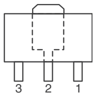

1. Emitter
2. Collector
3. Base

Transistors *(Cont.)*

Fig.	Package	VCEO (V)	VCBO (V)	IC (mA)	hFE		FT Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
					Min.	Max.			1	25	100	Qty.	Pricing	
1	SOT-23	45	50	500	100	600	80	568-4864-1-ND ***NEW!***	.28	3.00	8.00	3,000	25.00/M	BC807-25,215
	SOT-23	45	50	100	420	800	100	568-4871-1-ND ***NEW!***	.43	4.58	12.20	3,000	39.00/M	BC860C,215
	SOT-23	45	50	100	420	800	100	568-4870-1-ND ***NEW!***	.28	3.00	8.00	3,000	25.00/M	BC857C,215
	SOT-23	50	60	500	120	240	120	568-4659-1-ND	.43	6.02	18.30	3,000	61.00/M	2PB710ARL,215
	SOT-23	50	60	500	170	340	140	568-4660-1-ND	.43	6.02	18.30	3,000	61.00/M	2PB710ASL,215
	SOT-23	50	50	2000	80	—	100	568-4169-1-ND	.50	8.66	29.70	3,000	140.00/M	PBSS5350T,215
	SOT-23	60	60	600	100	300	200	568-1740-1-ND	.25	2.70	7.20	3,000	23.00/M	PMBT2907A,215
	SOT-23	60	80	1000	150	—	150	568-4347-1-ND▲	.53	9.19	31.52	3,000	148.00/M	PBSS5160T,215
	SOT-23	60	60	2700	150	—	150	568-5068-1-ND ***NEW!***	.52	9.14	31.35	3,000	147.00/M	PBSS4041PT,215
	SOT-23	65	80	100	220	475	100	568-1637-1-ND	.28	3.00	8.00	3,000	25.00/M	BC856B,215
	SOT-23	65	80	100	125	250	100	568-4869-1-ND ***NEW!***	.25	2.70	7.20	3,000	23.00/M	BC856A,215
	SOT-23	80	80	500	100	—	50	568-1747-1-ND	.39	4.16	11.10	3,000	35.00/M	PMBTA56,215
	SOT-23	100	120	1000	150	450	100	568-4348-1-ND▲	.50	8.66	29.70	3,000	140.00/M	PBSS9110T,215
	SOT-23	300	300	100	40	—	50	568-1748-1-ND	.39	4.49	12.48	3,000	43.00/M	PMBTA92,215
3A	SOT-223	20	20	5500	100	—	130	568-4180-1-ND	.95	18.75	67.50	4,000	215.00/M	PBSS302PZ,135
	SOT-223	40	40	600	100	300	200	568-2457-1-ND	.64	10.56	34.67	1,000	178.00	PZT4403,115
	SOT-223	40	40	5000	50	—	60	568-4172-1-ND	.79	15.30	54.00	1,000	259.00	PBSS5540Z,115
	SOT-223	50	60	3000	100	—	100	568-4171-1-ND	.60	9.86	32.37	4,000	134.00/M	PBSS5350Z,135
	SOT-223	60	60	1A	120	—	145	568-5007-1-ND ***NEW!***	.50	7.24	23.35	1,000	110.00	BCP52-16,115
	SOT-223	80	80	4500	30	—	100	568-4182-1-ND	.80	15.87	57.14	—	—	PBSS305PZ,135
	SOT-223	80	100	1000	63	250	145	568-4872-1-ND ***NEW!***	.50	7.24	23.35	1,000	110.00	BCP53,115
4	SC-75	65	80	100	220	475	100	568-4767-1-ND	.53	6.04	16.80	3,000	32.00/M	BC856BT,115
5	SOT-89	20	20	3000	100	—	100	568-4167-1-ND	.74	12.99	44.55	4,000	209.00/M	PBSS5320X,135
	SOT-89	20	20	5100	100	—	130	568-4174-1-ND	.80	15.53	54.81	—	—	PBSS302PX,115
	SOT-89	50	50	3000	80	—	100	568-4170-1-ND	.66	12.75	45.00	1,000	240.00	PBSS5350X,115
	SOT-89	50	60	3000	100	—	100	568-4168-1-ND	.50	8.66	29.70	3,000	140.00/M	PBSS5350D,115
	SOT-89	60	70	1A	10	—	100	568-5014-1-ND ***NEW!***	.76	13.37	45.84	1,000	261.00	BSR30,115
	SOT-89	60	60	600	50	—	200	568-5042-1-ND ***NEW!***	.64	10.56	34.67	1,000	178.00	PXT2907A,115
	SOT-89	80	80	4000	45	—	100	568-4178-1-ND	.99	19.50	70.20	1,000	473.00	PBSS305PX,115
	SOT-89	80	100	1000	100	250	50	568-1641-1-ND	.53	7.75	25.00	1,000	118.00	BCX53-16,115
6A	SC-74	20	20	4000	80	130	80	568-4150-1-ND	.73	14.03	49.50	3,000	239.00/M	PBSS301PD,115
	SOT-457	30	30	2700	200	—	104	568-5071-1-ND ***NEW!***	.61	10.59	36.30	3,000	171.00/M	PBSS4032PD,115
	SC-74	40	40	4000	30	—	110	568-4152-1-ND	.73	14.03	49.50	3,000	227.00/M	PBSS302PD,115
	SC-74	80	80	3000	20	—	110	568-4176-1-ND	.59	11.39	40.19	—	—	PBSS304PD,115
7	SOT-323	40	40	600	100	—	200	568-5036-1-ND ***NEW!***	.38	4.31	12.00	3,000	41.00/M	PMST4403,115
								NPN/PNP						
2A	SOT-363	45	50	100	200	450	100	568-1634-1-ND	.50	5.75	16.00	3,000	55.00/M	BC847BPN,115
6A	SC-74	40	40	1000	300	900	150	568-4153-1-ND▲	.84	16.15	57.00	3,000	276.00/M	PBSS4140DPN,115
6B	SC-74	40	40	2000	300	—	150	568-4349-1-ND▲	.92	17.85	63.00	3,000	305.00/M	PBSS4240DPN,115
	SC-74	60	80	1000	200	—	150	568-4352-1-ND▲	.68	13.09	46.20	3,000	223.00/M	PBSS4160DPN,115
								NPN/NPN						
6B	SC-74	60	80	1000	200	—	150	568-4350-1-ND▲	.68	13.09	46.20	3,000	223.00/M	PBSS4160DS,115
								PNP/PNP						
6B	SC-74	60	80	1000	150	—	150	568-4351-1-ND▲	.68	13.09	46.20	3,000	223.00/M	PBSS5160DS,115

‡ For Tape and Reel part number, change 1-ND to 2-ND.

▲ **NXPBISS1-KIT-ND** (3806620) 25 each of 17 values **$39.98**

Fig.6

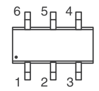

A	B
1. Collector	1. Emitter
2. Collector	2. Base
3. Base	3. Collector
4. Emitter	4. Emitter
5. Collector	5. Base
6. Collector	6. Collector

Fig. 7

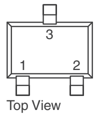

1. Base
2. Emitter
3. Collector

Fig. 8

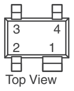

A	B
1. Emitter	1. Collector
2. Base	2. Emitter
3. Emitter	3. Base
4. Collector	4. Emitter

Wideband Transistors

Fig.	Package	Transition Frequency (GHz)	VCEO (V)	IC (mA)	Ptot (W)	hFE (Typical)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
								1	25	100	Qty.	Pricing	
							NPN						
1	SOT-23	1	15	25	0.3	90	568-1652-1-ND	.62	8.71	26.46	3,000	88.00/M	BFS17,215
	SOT-23	2.8	15	25	0.3	90	568-1653-1-ND	.52	7.60	24.50	3,000	88.00/M	BFS17A,215
	SOT-23	2.8	5	6.5	0.032	80	568-1992-1-ND	.72	13.92	49.14	3,000	238.00/M	BFT25A,215
	SOT-23	5	15	25	0.3	90	568-1650-1-ND	.54	8.91	29.25	3,000	124.00/M	BFR92A,215
	SOT-23	5	15	100	0.5	80	568-1987-1-ND	.61	10.59	36.30	3,000	171.00/M	BFR106,215
	SOT-23	6	12	35	0.3	90	568-1651-1-ND	.54	8.91	29.25	3,000	124.00/M	BFR93A,215
	SOT-23	6	10	50	0.3	100	568-1647-1-ND	.64	10.45	34.32	3,000	145.00/M	BFQ67,215
	SOT-23	8	10	50	0.36	100	568-1174-1-ND	.60	9.75	32.02	3,000	135.00/M	PBR941,215
	SOT-23	8	10	100	0.365	100	568-1175-1-ND	.60	9.75	32.02	3,000	135.00/M	PBR951,215
	SOT-23	8	15	18	0.15	120	568-1988-1-ND	.64	11.12	38.12	3,000	179.00/M	BFR505,215
	SOT-23	9	15	70	0.3	120	568-1648-1-ND	.80	14.08	48.28	3,000	227.00/M	BFR520,215
	SOT-23	9	15	120	0.5	120	568-1649-1-ND	.90	17.36	61.26	3,000	296.00/M	BFR540,215
2B	SOT-363	9	8	70	1	120	568-1646-1-ND	.98	18.88	66.63	3,000	322.00/M	BFM520,115
3B	SOT-223	5.5	15	100	1	80	568-1986-1-ND	1.36	26.78	96.39	3,000	536.00/M	BFG97,115
	SOT-223	7	15	150	1	130	568-1643-1-ND	1.35	26.70	96.12	1,000	534.00	BFG135,115
	SOT-223	7	15	200	2	90	568-1985-1-ND	1.20	23.63	85.05	1,000	473.00	BFG591,115
	SOT-223	9	15	120	0.65	120	568-1984-1-ND	1.06	20.85	75.06	1,000	417.00	BFG541,115
8A	SOT-343R	17	4.5	3.6	0.016	80	568-1979-1-ND	.87	16.78	59.22	3,000	116.00/M	BFG403W,115
	SOT-343R	18	15	500	0.60	100	568-1974-1-ND	1.11	21.95	79.00	3,000	405.00/M	BFG21W,115

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 9

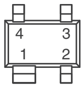

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 10

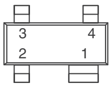

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 11

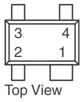

1. Emitter
2. Base
3. Emitter
4. Collector

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Wideband Transistors *(Cont.)*

Fig.	Package	Transition Frequency (GHz)	VCEO (V)	IC (mA)	Ptot (W)	hFE (Typical)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
								1	25	100	Qty.	Pricing	
8A	SOT-343R	21	4.5	250	0.36	60	568-1982-1-ND	.96	18.50	65.28	3,000	405.00/M	BFG480W,115
	SOT-343R	22	4.5	12	0.054	80	568-1980-1-ND	.77	14.94	52.74	3,000	116.00/M	BFG410W,115
	SOT-343R	25	4.5	30	0.135	80	568-1644-1-ND	.73	14.20	50.10	3,000	242.00/M	BFG425W,115
7	SOT-323	8.5	10	100	0.28	100	568-1177-1-ND	.47	7.62	25.04	3,000	106.00/M	PRF957,115
	SOT-323	9	15	18	0.15	120	568-1991-1-ND	.81	14.19	48.64	3,000	228.00/M	BFS505,115
	SOT-323	9	15	70	0.3	120	568-1654-1-ND	.76	14.59	51.48	3,000	249.00/M	BFS520,115
8B	SOT-343R	14	6	10	0.06	100	568-1976-1-ND	.64	12.28	43.34	—	—	BFG310W/XR,115
	SOT-343R	14	6	35	0.21	100	568-1978-1-ND	.64	12.28	43.34	—	—	BFG325W/XR,115
9	SOT-343N	9	15	70	0.5	120	568-1645-1-ND	.82	15.93	56.22	3,000	272.00/M	BFG520W/X,115
	SOT-343N	1.6	15	50	0.3	90	568-1990-1-ND	.56	8.15	26.30	3,000	93.00/M	BFS17W,115
	SOT-343N	5	15	25	0.3	90	568-1989-1-ND	.54	8.91	29.25	3,000	124.00/M	BFR92AW,115
10	SOT-143R	14	6	10	0.60	100	568-1975-1-ND	.78	15.12	53.37	3,000	132.00/M	BFG310/XR,215
	SOT-143R	14	6	35	0.21	100	568-1977-1-ND	.64	12.28	43.34	—	—	BFG325/XR,215
11	SOT-343F	25	4.5	30	0.135	80	568-1981-1-ND	.87	16.82	59.37	3,000	287.00/M	BFG424F,115
12	SOT-143B	9	15	120	0.4	120	568-1983-1-ND	.97	18.74	66.15	3,000	320.00/M	BFG540/X,215
13	SOT-416	9	10	50	0.15	150	568-2085-1-ND	.46	7.60	24.96	3,000	106.00/M	PRF949,115
PNP													
1	SOT-23	5	12	35	0.3	50	568-1993-1-ND	.81	14.15	48.51	3,000	228.00/M	BFT93,215
	SOT-23	5	15	25	0.3	50	568-1655-1-ND	.77	13.48	46.20	3,000	217.00/M	BFT92,215
7	SOT-323	5	15	35	0.3	50	568-1656-1-ND	.92	17.81	62.85	3,000	304.00/M	BFT92W,115

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 12

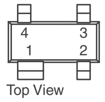

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 13

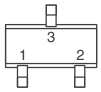

1. Base
2. Emitter
3. Collector

Transistor Arrays

Package	VCEO (V)	IC (mA)	R1	R2	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
						1	25	100		Qty.	Pricing	
NPN												
SOT-23	50	100	100K	—	568-2148-1-ND	.35	3.75	10.00	568-2148-2-ND	3,000	32.00/M	PDTC115TT,215
SOT-23	50	100	2.2K	47K	568-2154-1-ND	.60	6.90	19.20	568-2154-2-ND	10,000	41.00/M	PDTC123JT,235
SOT-23	50	100	4.7K	47K	568-2168-1-ND	.60	6.90	19.20	568-2168-2-ND	10,000	41.00/M	PDTC143ZT,235
SOT-416	50	100	4.7K	47K	568-2165-1-ND	.42	5.93	18.00	568-2165-2-ND	3,000	35.00/M	PDTC143ZE,115
SOT-416	50	100	47K	—	568-2169-1-ND	.42	5.93	18.00	568-2169-2-ND	3,000	60.00/M	PDTC144TE,115
SOT-416	50	100	4.7K	—	568-2161-1-ND	.42	5.93	18.00	568-2161-2-ND	3,000	60.00/M	PDTC143TE,115
SOT-416	50	100	22K	—	568-2156-1-ND	.34	4.76	14.47	—	—	—	PDTC124TE,115
SOT-416	50	100	2.2K	2.2K	568-2150-1-ND	.60	6.90	19.20	568-2150-2-ND	3,000	56.00/M	PDTC123EE,115
SOT-416	50	100	100K	—	568-2145-1-ND	.48	5.53	15.40	—	—	—	PDTC115TE,115
SOT-416	50	100	47K	22K	568-2171-1-ND	.42	5.93	18.00	568-2171-2-ND	3,000	60.00/M	PDTC144WE,115
SOT-346	50	100	100K	—	568-2146-1-ND	.31	3.30	8.80	—	—	—	PDTC115TK,115
SOT-323	50	100	100K	—	568-2149-1-ND	.48	5.53	15.40	—	—	—	PDTC115TU,115
PNP												
SOT-23	50	20	100K	100K	568-2109-1-ND	.28	3.00	8.00	568-2109-2-ND	3,000	25.00/M	PDTA115ET,215
SOT-23	50	100	22K	—	568-2122-1-ND	.28	3.00	8.00	—	—	—	PDTA124TT,215
SOT-23	50	100	47K	—	568-2136-1-ND	.28	3.00	8.00	—	—	—	PDTA144TT,215
SOT-23	50	100	100K	—	568-2114-1-ND	.28	3.00	8.00	—	—	—	PDTA115TT,215
SOT-416	50	100	10K	47K	568-2104-1-ND	.42	5.93	18.00	568-2104-2-ND	3,000	60.00/M	PDTA114YE,115
SOT-416	50	20	100K	100K	568-2106-1-ND	.48	5.53	15.40	—	—	—	PDTA115EE,115
SOT-416	50	100	22K	—	568-2119-1-ND	.34	4.76	14.47	—	—	—	PDTA124TE,115
SOT-416	50	100	2.2K	2.2K	568-2116-1-ND	.60	6.90	19.20	568-2116-2-ND	3,000	56.00/M	PDTA123EE,115
SOT-416	50	100	4.7K	—	568-2127-1-ND	.34	4.76	14.47	568-2127-2-ND	3,000	48.00/M	PDTA143TE,115
SOT-416	50	100	4.7K	47K	568-2130-1-ND	.42	5.93	18.00	568-2130-2-ND	3,000	60.00/M	PDTA143ZE,115
SOT-416	50	100	47K	22K	568-2138-1-ND	.34	4.76	14.47	—	—	—	PDTA144WE,115
SOT-416	50	100	47K	—	568-2133-1-ND	.34	4.76	14.47	—	—	—	PDTA144TE,115
SOT-416	50	100	100K	—	568-2111-1-ND	.48	5.53	15.40	—	—	—	PDTA115TE,115
SOT-323	50	20	100K	100K	568-2110-1-ND	.48	5.53	15.40	—	—	—	PDTA115EU,115
SOT-323	50	100	100K	—	568-2115-1-ND	.48	5.53	15.40	—	—	—	PDTA115TU,115
SOT-323	50	100	47K	—	568-2137-1-ND	.34	4.76	14.47	—	—	—	PDTA144TU,115
SOT-323	50	100	22K	—	568-2123-1-ND	.34	4.76	14.47	—	—	—	PDTA124TU,115
NEW! NPN/PNP NEW!												
SOT-363	50	100	4.7K	47K	568-5038-1-ND	.53	6.10	16.96	568-5038-2-ND	3,000	59.00/M	PUMD13,115
SOT-363	50	100	10K	10K	568-5039-1-ND	.53	6.10	16.96	568-5039-2-ND	3,000	59.00/M	PUMD3,115
SOT-363	50	100	4.7K	—	568-5040-1-ND	.53	6.10	16.96	568-5040-2-ND	3,000	59.00/M	PUMD6,115
NEW! NPN/NPN NEW!												
SOT-363	50	100	10K	10K	568-5041-1-ND	.53	6.10	16.96	568-5041-2-ND	3,000	59.00/M	PUMH11,115

SOT-23

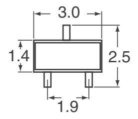

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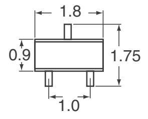

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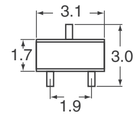

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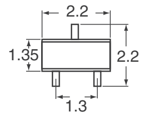

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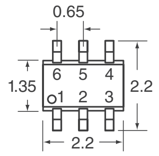

PNP Loadswitch

Package	IC (mA)	VCEO (V)	VCESAT (mV)	R1	R2	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 4,000	NXP Part No.
							1	25	100			
SOT-666	500	12	250	10K	10K	568-2173-1-ND	.66	11.55	39.60	568-2173-2-ND	102.00/M	PEMF21,115

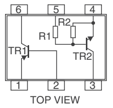

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

Fig.	Package	V_{DSS}	I_D	$R_{DS(on)}$	Digi-Key	Cut Tape Pricing			Tape and Reel‡		NXP
		(V)	(A)	(Ω)	Part No.	1	25	100	Qty.	Pricing	Part No.
N-Channel											
1A	SOT-23	20	5.9	0.037	568-2354-1-ND	.63	11.07	37.95	3,000	178.00/M	PMV31XN,215
	SOT-23	30	4.9	0.047	568-2355-1-ND	.69	12.03	41.25	3,000	162.00/M	PMV40UN215
	SOT-23	30	5.4	0.042	568-2356-1-ND	.63	11.07	37.95	3,000	178.00/M	PMV45EN,215
	SOT-23	30	4.7	0.055	568-2357-1-ND	.63	11.07	37.95	3,000	178.00/M	PMV60EN,215
	SOT-23	30	0.85	0.4	568-5013-1-ND ***NEW!***	.50	7.24	23.35	3,000	99.00/M	BSH103,215
	SOT-23	40	5mA	100	568-5032-1-ND ***NEW!***	.48	6.98	22.50	3,000	81.00/M	PMBF4393,215
	SOT-23	50	0.173	15	568-1658-1-ND	.48	6.98	22.50	3,000	95.00/M	BSN20,215
	SOT-23	55	0.335	5	568-1657-1-ND	.52	7.31	22.20	3,000	78.00/M	BSH111,215
	SOT-23	60	0.30	5	568-1369-1-ND	.35	3.75	10.00	3,000	32.00/M	2N7002,215
	SOT-23	60	0.30	5	568-1768-1-ND	.53	9.34	32.01	10,000	81.00/M	BSH112,235
	SOT-23	60	0.385	3	568-4858-1-ND ***NEW!***	.42	4.80	13.36	3,000	46.00/M	2N7002E,215
	SOT-23	60	340mA	3.9	568-4984-1-ND ***NEW!***	.42	4.80	13.36	3,000	46.00/M	2N7002K,215
1D	SOT-23	20	5.7	0.036	568-2353-1-ND	.50	8.66	29.70	3,000	140.00/M	PMV30UN,215
2	SOT-223	240	0.375	5	568-1769-1-ND	.70	13.60	48.00	1,000	256.00	BSP89,115
3A	SOT-143B	10	0.05	45	568-1659-1-ND	.85	16.49	58.20	3,000	281.00/M	BSS83,215
3B	SOT-143B	6	.03	—	568-1962-1-ND	.66	11.55	39.60	3,000	186.00/M	BF1212,215
	SOT-143B	6	.03	—	568-1959-1-ND	.66	11.55	39.60	3,000	186.00/M	BF1211,215
	SOT-143B	12	.03	—	568-1973-1-ND	.51	9.00	30.86	3,000	145.00/M	BF998,215
	SOT-143B	20	.02	—	568-1970-1-ND	.75	13.14	45.05	3,000	212.00/M	BF991,215
	SOT-143B	20	.03	—	568-1972-1-ND	.81	14.15	48.51	3,000	228.00/M	BF994S,215
	SOT-143B	20	.04	—	568-1971-1-ND	.75	13.14	45.05	3,000	212.00/M	BF992,215
4	SOT-143R	6	.03	—	568-1963-1-ND	.66	11.55	39.60	3,000	186.00/M	BF1212R,215
5	SOT-343R	6	.03	—	568-1961-1-ND	.53	9.36	32.08	—	—	BF1211WR,115
	SOT-343R	12	.04	—	568-1969-1-ND	.52	9.10	31.19	3,000	146.00/M	BF908WR,115
6	LFPAK	55	40	21	568-2174-1-ND	2.21	42.63	154.74	1,500	916.00/M	PH1955L,115
	LFPAK	25	100	4.1	568-2177-1-ND	2.98	57.55	208.89	1,500	1109.00/M	PH2625L,115
	LFPAK	25	78.7	9.5	568-2181-1-ND	2.39	46.18	167.63	1,500	943.00/M	PH6325L,115
	LFPAK	20	100	2.7	568-2176-1-ND	3.21	61.97	224.91	1,500	1262.00/M	PH2520U,115
	LFPAK	20	100	3.7	568-2178-1-ND	2.55	51.96	186.64	—	—	PH3120L,115
	LFPAK	25	100	0.003	568-2344-1-ND	3.21	61.97	224.91	—	—	PH2925U,115
	LFPAK	30	100	0.0032	568-2345-1-ND	2.95	56.84	206.31	1,500	1109.00/M	PH3230S,115
	LFPAK	30	98	0.0038	568-2346-1-ND	2.69	51.87	188.26	1,500	1059.00/M	PH3830L,115
	LFPAK	30	80	0.072	568-2179-1-ND	2.13	41.17	149.42	—	—	PH4530L,115
	LFPAK	30	80	0.0057	568-2348-1-ND	2.51	48.32	175.37	—	—	PH5330E,115
	LFPAK	30	68	0.0079	568-2349-1-ND	2.10	40.50	147.00	1,500	870.00/M	PH7030L,115
	LFPAK	30	67	0.0082	568-2350-1-ND	2.21	42.63	154.74	1,500	632.00/M	PH8230E,115
	LFPAK	40	94.5	0.041	568-2180-1-ND	2.76	53.29	193.43	1,500	1145.00/M	PH4840S,115
	LFPAK	60	76	.008	568-4969-1-ND ***NEW!***	1.77	34.88	125.55	1,500	698.00/M	PSMN8R5-60YS,115
	LFPAK	60	100	.0052	568-4973-1-ND ***NEW!***	2.22	42.73	155.09	1,500	918.00/M	PSMN5R5-60YS,115
	LFPAK	100	43	.0205	568-4975-1-ND ***NEW!***	1.75	34.50	124.20	1,500	690.00/M	PSMN020-100YS,115
	LFPAK	60	59	.0111	568-4977-1-ND ***NEW!***	1.44	28.35	102.06	1,500	567.00/M	PSMN012-60YS,115
	LFPAK	100	60	.012	568-4978-1-ND ***NEW!***	2.22	42.73	155.09	1,500	918.00/M	PSMN012-100YS,115
7	D2PAK	40	75	0.08	568-2182-1-ND	2.98	57.38	208.25	—	—	PHB101NQ04T,118
	D2PAK	55	75	0.093	568-2183-1-ND	3.19	61.43	222.95	800	1146.40	PHB110NQ06LT,118
	D2PAK	55	75	0.064	568-2185-1-ND	3.03	61.88	222.25	—	—	PHB146NQ06LT /T3
	D2PAK	55	75	0.044	568-2188-1-ND	4.26	86.98	312.40	800	1704.00	PHB191NQ06LT,118
	D2PAK	75	27	0.5	568-2190-1-ND	2.13	41.04	148.96	800	630.40	PHB29N08T,118
9	TO-220AB-3	60	92	.0078	568-4970-5-ND ***NEW!***	1.65	33.31	119.93	—	—	PSMN7R6-60PS,127
	TO-220AB-3	100	100	.0068	568-4971-5-ND ***NEW!***	2.94	61.69	215.25	—	—	PSMN7R0-100PS,127
	TO-220AB-3	100	100	.0050	568-4972-5-ND ***NEW!***	3.88	77.91	283.93	—	—	PSMN5R6-100PS,127
	TO-220AB-3	60	100	.003	568-4974-5-ND ***NEW!***	3.88	77.91	283.93	—	—	PSMN3R0-60PS,127
	TO-220AB-3	100	68	.0139	568-4976-5-ND ***NEW!***	1.90	38.25	137.70	—	—	PSMN013-100PS,127
Dual N-Channel											
8	8-TSSOP	20	10.4	0.024	568-2362-1-ND	.75	14.49	51.16	—	—	PMWD20XN,118
	8-TSSOP	20	7.8	0.03	568-2363-1-ND	.86	16.56	58.46	—	—	PMWD26UN,518
10	SOT-363	20	0.87	0.34	568-2365-1-ND	.52	8.55	28.08	3,000	119.00/M	PMGD280UN,115
	SOT-363	20	0.86	0.35	568-2366-1-ND	.52	8.55	28.08	3,000	119.00/M	PMGD290XN,115
	SOT-363	30	0.74	0.44	568-2367-1-ND	.52	8.55	28.08	3,000	119.00/M	PMGD370XN,115
	SOT-363	30	0.71	0.48	568-2368-1-ND	.52	8.55	28.08	3,000	119.00/M	PMGD400UN,115
	SOT-363	60	0.49	0.92	568-2369-1-ND	.52	8.55	28.08	3,000	119.00/M	PMGD780SN,115
	SOT-363	30	0.125	8	568-2370-1-ND	.55	9.63	33.00	3,000	124.00/M	PMGD8000LN,115
P-Channel											
1A	SOT-23	50	0.13	10	568-1660-1-ND	.58	6.70	18.64	3,000	64.00/M	BSS84,215
	SOT-23	20	3.9	0.076	568-2358-1-ND	.55	9.63	33.00	3,000	113.00/M	PMV65XP,215
JFET N-Channel											
1B	SOT-23	20	.025	—	568-1968-1-ND	.76	13.38	45.87	3,000	218.00/M	BF862,215
	SOT-23	25	.015	—	568-1967-1-ND	.75	13.14	45.05	3,000	212.00/M	BF861B,215
	SOT-23	25	.06	50	568-2083-1-ND	.48	6.98	22.50	3,000	186.00/M	PMBFJ310,215
	SOT-23	30	.025	—	568-1966-1-ND	.72	12.61	43.23	3,000	203.00/M	BF545C,215
1C	SOT-23	25	.08	8	568-2078-1-ND	.49	7.96	26.13	3,000	218.00/M	PMBFJ108,215
	SOT-23	25	.04	12	568-2079-1-ND	.49	7.96	26.13	3,000	218.00/M	PMBFJ109,215
	SOT-23	25	.01	18	568-2080-1-ND	.66	12.75	45.00	3,000	218.00/M	PMBFJ110,215
1D	SOT-23	20	.007	—	568-1965-1-ND	.76	14.73	51.99	3,000	251.00/M	BF511,215
10	SOT-363	25	60	50	568-2084-1-ND	.95	18.75	67.50	3,000	350.00/M	PMBFJ620,115
JFET P-Channel											
1C	SOT-23	30	.0015	300	568-5033-1-ND ***NEW!***	.49	7.96	26.13	3,000	111.00/M	PMBFJ177,215
	SOT-23	30	.002	250	568-2082-1-ND	.49	7.96	26.13	3,000	111.00/M	PMBFJ176,215
	SOT-23	30	.02	85	568-2081-1-ND	.49	7.96	26.13	3,000	111.00/M	PMBFJ174,215
Trench N-Channel											
1A	SOT-23	100	.15	6	568-4873-1-ND ***NEW!***	.53	6.07	16.88	3,000	58.00/M	BSS123,215
6	LFPAK	25	100	0.0012	568-4909-1-ND ***NEW!***	3.02	60.58	220.79	1,500	1508.00/M	PSMN1R2-25YL,115
	LFPAK	25	100	0.0015	568-4907-1-ND ***NEW!***	2.62	52.88	190.35	1,500	1227.00/M	PSMN1R5-25YL,115
	LFPAK	30	100	0.0013	568-4908-1-ND ***NEW!***	3.23	65.97	236.94	1,500	1508.00/M	PSMN1R3-30YL,115
	LFPAK	30	100	0.0017	568-4678-1-ND	3.40	65.48	237.65	1,500	1407.00/M	PSMN1R7-30YL,115
	LFPAK	30	100	0.002	568-4679-1-ND	2.56	49.28	178.85	1,500	1059.00/M	PSMN2R0-30YL,115
	LFPAK	30	100	0.0024	568-4680-1-ND	2.14	41.18	149.45	1,500	885.00/M	PSMN2R5-30YL,115
	LFPAK	30	100	0.003	568-4681-1-ND	1.93	37.13	134.75	1,500	798.00/M	PSMN3R0-30YL,115
	LFPAK	30	100	0.0035	568-4682-1-ND	1.82	36.00	129.60	1,500	720.00/M	PSMN3R5-30YL,115
	LFPAK	30	100	0.004	568-4683-1-ND	1.52	30.00	108.00	1,500	600.00/M	PSMN4R0-30YL,115
	LFPAK	30	84	0.005	568-4684-1-ND	1.33	26.25	94.50	1,500	525.00/M	PSMN5R0-30YL,115
	LFPAK	30	79	0.006	568-4685-1-ND	1.18	23.25	83.70	1,500	465.00/M	PSMN6R0-30YL,115
	LFPAK	30	65	0.007	568-4686-1-ND	1.03	20.25	72.90	1,500	405.00/M	PSMN7R0-30YL,115
	LFPAK	30	55	0.008	568-4687-1-ND	1.06	20.40	72.00	1,500	384.00/M	PSMN9R0-30YL,115
	LFPAK	40	100	0.0028	568-4906-1-ND ***NEW!***	2.62	52.88	190.35	1,500	1227.00/M	PSMN2R6-40YS,115

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

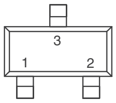

A	B
1. Gate	1. Source
2. Source	2. Drain
3. Drain	3. Gate

C	D
1. Drain	1. Gate
2. Source	2. Drain
3. Gate	3. Source

Fig. 2

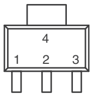

Top View

1. Gate
2. Drain
3. Source
4. Drain

Fig. 3

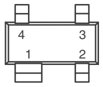

Top View

A	B
1. Substrate (b)	1. Source
2. Source	2. Drain
3. Drain	3. Gate 2
4. Gate	4. Gate 1

Fig. 4

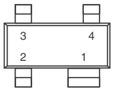

Top View

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 5

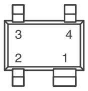

Top View

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 6

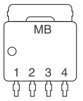

1,2,3: Source (S)
4: Gate (G)
MB: Mounting Base,
Connected to Drain (D)

Fig. 7

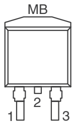

1. Gate (G)
2. Drain (D)
3. Source (S)
MB: Mounting Base,
Connected to Drain (D)

Fig. 8

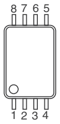

1,8: Drain (D)
2,3: Source 1 (S_1)
4: Gate 1 (G_1)
5: Gate 2 (G_2)
6,7: Source 2 (S_2)

Fig. 9 ***NEW!***

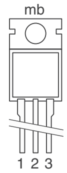

1. Gate
2. Drain
3. Source

Fig. 10

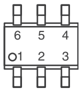

1. Source (1)
2. Source (2)
3. Gate (2)
4. Drain (2)
5. Drain (1)
6. Gate (1)

(Continued)

MOSFETs *(Cont.)*

Fig.	Package	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
						1	25	100	Qty.	Pricing	
6	LFPAK	40	100	0.0042	568-4905-1-ND ***NEW!***	1.91	38.44	138.38	1,500	892.00/M	PSMN4R0-40YS,115
	LFPAK	40	70	0.0086	568-4903-1-ND ***NEW!***	1.35	26.95	94.33	1,500	578.00/M	PSMN8R3-40YS,115
	LFPAK	80	60	0.0129	568-4911-1-ND ***NEW!***	1.91	38.44	138.38	1,500	892.00/M	PSMN013-80YS,115
	LFPAK	80	34	0.0275	568-4910-1-ND ***NEW!***	1.35	26.95	94.33	1,500	578.00/M	PSMN026-80YS,115
	LFPAK	80	82	0.0085	568-4904-1-ND ***NEW!***	2.62	52.88	190.35	1,500	1227.00/M	PSMN8R2-80YS,115
	LFPAK	150	43	0.059	568-4734-1-ND	3.75	76.56	275.00	1,500	1160.00/M	PSMN059-150Y,115
9	TO-220AB3	30	100	0.0017	568-4900-5-ND ***NEW!***	3.88	77.91	283.93	—	—	PSMN1R6-30PL,127
	TO-220AB3	30	100	0.0028	568-4899-5-ND ***NEW!***	2.62	52.88	190.35	—	—	PSMN2R0-30PL,127
	TO-220AB3	30	100	0.0043	568-4897-5-ND ***NEW!***	1.62	32.34	113.19	—	—	PSMN4R3-30PL,127
	TO-220AB3	40	77	0.0076	568-4893-5-ND ***NEW!***	1.62	32.34	113.19	—	—	PSMN8R0-40PS,127
	TO-220AB3	40	100	0.0021	568-4898-5-ND ***NEW!***	3.88	77.91	283.93	—	—	PSMN2R2-40PS,127
	TO-220AB3	40	100	0.0046	568-4895-5-ND ***NEW!***	1.91	38.44	138.38	—	—	PSMN4R5-40PS,127
	TO-220AB3	80	22	0.05	568-4901-5-ND ***NEW!***	1.08	21.56	75.46	—	—	PSMN050-80PS,127
	TO-220AB3	80	74	0.011	568-4902-5-ND ***NEW!***	1.91	38.44	138.38	—	—	PSMN012-80PS,127
	TO-220AB3	80	100	0.0041	568-4896-5-ND ***NEW!***	4.09	82.24	299.71	—	—	PSMN4R4-80PS,127
	TO-220AB3	80	100	0.0047	568-4894-5-ND ***NEW!***	3.67	73.69	268.55	—	—	PSMN5R0-80PS,127
11	SOT-323	30	0.83	480	568-3244-1-ND	.54	8.79	28.86	3,000	122.00/M	PMF400UN,115
12	D-PAK	55	11	120	568-4281-1-ND	.83	15.98	56.40	2,500	273.00/M	BUK92150-55A,118
	D-PAK	55	13	56	568-4284-1-ND	.99	19.04	67.20	2,500	325.00/M	BUK9277-55A,118

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 11

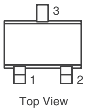

1. Gate (G)
2. Source (S)
3. Drain (D)

Top View

Fig. 12

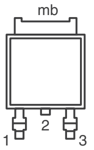

1. Gate (G)
2. Source (S)
3. Drain (D)
MB: Mounting Base,
Connected to Drain (D)

Diodes

Fig. 1

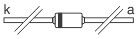

Fig. 2

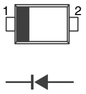

Fig. 3

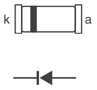

Fig. 4

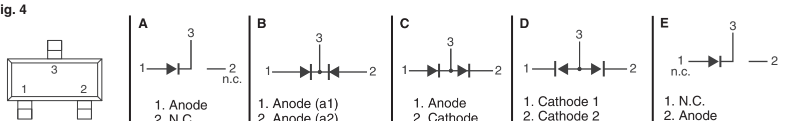

A
1. Anode
2. N.C.
3. Cathode

B
1. Anode (a1)
2. Anode (a2)
3. Common Cathode

C
1. Anode
2. Cathode
3. Common

D
1. Cathode 1
2. Cathode 2
3. Common Anode

E
1. N.C.
2. Anode
3. Cathode

Fig. 5

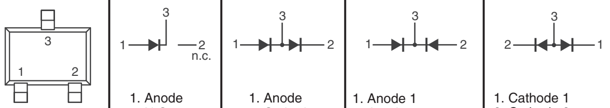

A
1. Anode
2. N.C.
3. Cathode

B
1. Anode
2. Cathode
3. Common

C
1. Anode 1
2. Anode 2
3. Common Cathode

D
1. Cathode 1
2. Cathode 2
3. Common Anode

Fig. 6

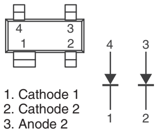

1. Cathode 1
2. Cathode 2
3. Anode 2
4. Anode 1

Fig. 7

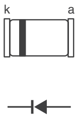

Fig. 8

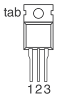

1. Anode 1
2. Cathode
3. Anode 2
Tab - Cathode

Fig. 9

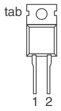

1. Cathode
2. Anode
Tab - Cathode

Fig. 10

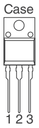

1. Anode 1
2. Cathode
3. Anode 2
Case-Isolated

Fig. 11

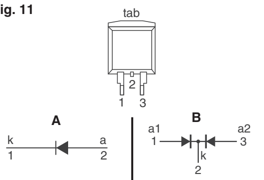

A
1. No Connection
2. Cathode
3. Anode
Tab - Cathode

B
1. Anode 1
2. Cathode
3. Anode 2
Tab - Cathode

Fig. 12

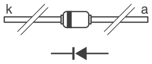

Fig. 13 — SOD-323, SOD-323F

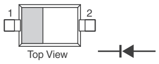

1. Cathode
2. Anode

Fig. 14

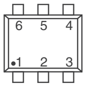

1. Anode 1
2. Anode 2
3. Common Cathode (3,4)
4. Anode 3
5. Anode 4
6. Common Cathode (1,2)

Fig. 15

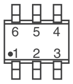

A
1. Anode 1
2. Cathode 2
3. Anode 3/ Cathode 4
4. Anode 4
5. Cathode 3
6. Cathode 1/ Anode 2

B
1. Anode 1
2. Cathode 2
3. Cathode 3/ Anode 4
4. Anode 3
5. Cathode 4
6. Cathode 1/ Anode 2

Fig. 16

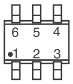

1. Cathode
2. Cathode
3. Anode
4. Anode
5. Cathode
6. Cathode

Fig. 17

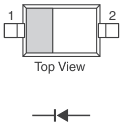

1. Cathode
2. Anode

Fig. 18

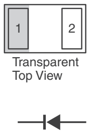

1. Cathode
2. Anode

High Speed Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continuous Forward Current (mA)	Maximum Forward Voltage @		Maximum Reverse Recorvery Time Trr (ns)	Power Dissipation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
				V_F (V)	I_F (mA)				1	25	100		Qty.	Pricing	
1	DO-35	100	200	1	10	4	500	568-1360-1-ND	.15	1.65	4.40	568-1360-2-ND	10,000	10.00/M	1N4148,113
	DO-35	100	200	0.72	5	4	500	568-1361-1-ND	.18	1.88	5.00	568-1361-2-ND	10,000	12.00/M	1N4448,113
2	SOD-523	85	250	1	50	4	500	568-1603-1-ND	.42	4.80	13.36	568-1603-2-ND	3,000	46.00/M	BAS516,115
3	SOD-80C	75	200	1	100	4	500	568-1601-1-ND	.28	3.00	8.00	568-1601-2-ND	2,500	25.00/M	BAS32L,115
	SOD-80C	100	200	1	10	4	500	568-1749-1-ND	.25	2.63	7.00	568-1749-2-ND	2,500	22.00/M	PMLL4148L,115
	SOD-80C	100	200	0.72	5	4	500	568-1750-1-ND	.21	2.29	6.10	568-1750-2-ND	2,500	19.00/M	PMLL4448,115
4A	SOT-23	85	215	1	50	4	250	568-1596-1-ND	.24	2.59	6.90	568-1596-2-ND	3,000	22.00/M	BAS16,215
	SOT-23	85	215	1	50	4	250	568-1737-1-ND	.25	2.63	7.00	568-1737-2-ND	3,000	22.00/M	PMBD914,215
	SOT-23	85	215	1.25	150	4	250	568-4877-1-ND ***NEW!***	.39	4.16	11.10	568-4877-2-ND ***NEW!***	3,000	28.00/M	PMBD6050,215
4B	SOT-23	60	125	1	100	4	250	568-1623-1-ND	.27	2.93	7.80	568-1623-2-ND	3,000	25.00/M	BAV74,215
	SOT-23	75	215	1	50	4	250	568-1622-1-ND	.25	2.63	7.00	568-1622-2-ND	3,000	22.00/M	BAV70,215
4C	SOT-23	100	125	1	50	4	250	568-1624-1-ND	.25	2.70	7.20	568-1624-2-ND	3,000	23.00/M	BAV99,215
	SOT-23	100	125	1	50	4	250	568-5005-1-ND ***NEW!***	.25	2.70	7.20	568-5005-2-ND ***NEW!***	10,000	17.00/M	BAV99,235
	SOT-23	85	140	1	10	3	250	568-1619-1-ND	.43	4.58	12.20	568-1619-2-ND	3,000	39.00/M	BAV199,215
	SOT-23	100	125	1	50	4	250	568-1736-1-ND	.27	2.93	7.80	568-1736-2-ND	3,000	25.00/M	PMBD7000,215
	SOT-23	100	125	1	50	4	250	568-5031-1-ND ***NEW!***	.27	2.93	7.80	568-5031-2-ND ***NEW!***	10,000	18.00/M	PMBD7000,235
4D	SOT-23	90	215	1	50	4	250	568-1626-1-ND	.25	2.70	7.20	568-1626-2-ND	3,000	23.00/M	BAW56,215
4E	SOT-23	50	215	1.25	150	4	250	568-3424-1-ND	.68	7.76	21.60	568-3424-2-ND	3,000	54.00/M	BAL74,215
5A	SOT-323	85	175	1	50	4	200	568-1597-1-ND	.35	3.75	10.00	568-1597-2-ND	3,000	32.00/M	BAS16W,115
5B	SOT-323	85	130	1	50	4	200	568-1625-1-ND	.43	4.58	12.20	568-1625-2-ND	3,000	39.00/M	BAV99W,115
	SOT-323	85	135	1.1	50	3000	150	568-4863-1-ND ***NEW!***	.68	7.82	21.76	568-4863-2-ND ***NEW!***	3,000	64.00/M	BAV199W,115
6	SOT-143B	85	215	1	50	4	250	568-1600-1-ND	.61	7.02	19.52	568-1600-2-ND	3,000	67.00/M	BAS28,215
	SOT-143B	60	150	1	200	6	250	568-1604-1-ND	.58	6.70	18.64	568-1604-2-ND	3,000	64.00/M	BAS56,215
13	SOD-323	100	250	1	50	4	400	568-5003-1-ND ***NEW!***	.43	4.58	12.20	568-5003-2-ND ***NEW!***	3,000	39.00/M	BAS316,115
14	SOT-363	100	250	1	50	4	350	568-5004-1-ND ***NEW!***	.47	6.58	19.98	568-5004-2-ND ***NEW!***	3,000	70.00/M	BAV70S,115
15B	SC-88	90	215	1	50	4	250	568-4507-1-ND	.49	6.91	21.00	568-4507-2-ND	3,000	82.00/M	BAV99S,115
18	SOD-882	100	215	1	50	4	250	568-4859-1-ND ***NEW!***	.50	7.11	21.60	568-4859-2-ND ***NEW!***	10,000	56.00/M	BAS16L,315

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

General Purpose Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continuous Forward Current I_F (mA)	Power Dissi-pation (mW)	Peak Repetitive Surge I_{FRM} (mA)	Diode Cap. (pF)	Recovery Time (ns)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
									1	25	100		Qty.	Pricing	
3	SOD-80C	250	250	400	625	5	50	568-1618-1-ND	.50	5.75	16.00	568-1618-2-ND	2,500	55.00/M	BAV103,115
4A	SOT-23	120	200	250	625	5	50	568-4860-1-ND ***NEW!***	.27	2.93	7.80	568-4860-2-ND ***NEW!***	3,000	25.00/M	BAS19,215
	SOT-23	250	200	250	625	5	50	568-1598-1-ND	.27	2.93	7.80	568-1598-2-ND	3,000	25.00/M	BAS21,215
4C	SOT-23	250	125	250	625	5	50	568-1621-1-ND	.39	4.49	12.48	568-1621-2-ND	3,000	43.00/M	BAV23S,215
6	SOT-143B	250	225	250	625	5	50	568-1620-1-ND	.64	7.36	20.48	568-1620-2-ND	3,000	60.00/M	BAV23,215

Ultra Fast Recovery Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Average Forward Current I_F (A)	Maximum Forward Voltage @		Maximum Reverse Recovery Time (ns)	Digi-Key Part No.	Pricing			NXP Part No.
				V_F (V)	I_F (A)			1	25	100	
8	TO-220AB	600	10	2	5	30	568-1781-ND*	1.28	25.67	89.84	BYC10-600CT,127
	TO-220AB	200	8	0.895	5	25	568-3430-5-ND	.80	15.50	54.00	BYQ28E-200,127
	TO-220AB	100	20	0.95	8	25	568-3435-5-ND	1.10	22.05	77.18	BYV32E-100,127
	TO-220AB	200	20	0.85	8	25	568-1667-5-ND	.95	18.90	66.15	BYV32E-200,127
	TO-220AB	200	30	0.85	15	28	568-3439-5-ND	1.55	31.25	112.50	BYV42E-200,127
9	TO-220AC	150	8	0.895	8	25	568-3441-5-ND	.89	17.22	59.99	BYW29E-150,127
	TO-220AC	200	8	1.05	8	25	568-1669-5-ND	.69	13.42	46.74	BYW29E,127
	TO-220AC	600	5	1.75	5	19	568-3429-5-ND	.93	18.55	64.93	BYC5-600,127
	TO-220AC	400	9	1.03	8	60	568-3432-5-ND	1.24	24.78	86.73	BYV29-400,127
	TO-220AC	500	9	1.03	8	60	568-3433-5-ND	1.09	21.78	76.22	BYV29-500,127
	TO-220AC	200	14	0.9	14	30	568-3440-ND*	.91	18.20	63.70	BYV79E-200,127
10	TO-220F	200	10	0.895	5	25	568-3431-ND*	.94	18.83	65.91	BYQ28X-200,127
11A	D2PAK	500	9	1.03	8	60	568-3434-1-ND◊	1.19	23.48	84.51	BYV29B-500,118
	D2PAK	500	9	1.03	8	60	568-3434-2-ND†		416.00/800		BYV29B-500,118
11B	D2PAK	200	20	0.85	8	25	568-3436-1-ND◊	1.71	33.83	121.77	BYV32EB-200,118
	D2PAK	200	20	0.85	8	25	568-3436-2-ND†		599.20/800		BYV32EB-200,118

* Bulk ◊ Cut Tape † Tape and Reel

Schottky Barrier Diodes

Fig.	Package	Reverse Voltage V_R (V)	Continuous Forward Current I_F (mA)	Maximum Forward Voltage @		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part-No	Tape and Reel		NXP Part No.
				V_F (V)	I_F (mA)						Qty.	Pricing	
3	SOD-80C	30	200	320	1	568-1609-1-ND	.42	5.93	18.00	568-1609-2-ND	2,500	71.00/M	BAS85,115
	SOD-80C	50	200	380	1	568-3411-1-ND	.58	8.12	24.66	568-3411-2-ND	2,500	52.00/M	BAS86,115
4A	SOT-23	20	500	390	500	568-4111-1-ND	.48	6.98	22.50	568-4111-2-ND	3,000	95.00/M	PMEG2005ET,215
	SOT-23	30	200	320	1	568-1610-1-ND	.42	4.50	12.00	568-1610-2-ND	3,000	38.00/M	BAT54,215
	SOT-23	30	500	430	500	568-4123-1-ND★	.48	6.98	22.50	568-4123-2-ND	3,000	95.00/M	PMEG3005ET,215
	SOT-23	30	1000	560	1000	568-4101-1-ND★	.44	7.26	23.83	568-4101-2-ND	3,000	104.00/M	PMEG3010ET,215
	SOT-23	40	500	470	500	568-4134-1-ND★	.48	6.98	22.50	568-4134-2-ND	3,000	95.00/M	PMEG4005ET,215
	SOT-23	40	1000	640	1000	568-4103-1-ND★	.59	8.62	27.80	568-4103-2-ND	3,000	108.00/M	PMEG4010ET,215
	SOT-23	70	70	410	1	568-1608-1-ND	.39	4.16	11.10	568-1608-2-ND	3,000	35.00/M	BAS70,215
	SOT-23	40	120	380	1	568-4861-1-ND ***NEW!***	.45	5.12	14.24	568-4861-2-ND ***NEW!***	3,000	49.00/M	BAS40,215
4B	SOT-23	30	200	320	1	568-1612-1-ND	.38	4.31	12.00	568-1612-2-ND	3,000	41.00/M	BAT54C,215
	SOT-23	30	200	260	1	568-3421-1-ND	.60	8.84	28.50	568-3421-2-ND	3,000	95.00/M	BAT754C,215
	SOT-23	40	200	420	100	568-3419-1-ND	.51	8.95	30.69	568-3419-2-ND	3,000	83.00/M	BAT721C,215
	SOT-23	70	70	410	1	568-1606-1-ND	.45	5.12	14.24	568-1606-2-ND	3,000	49.00/M	BAS70-05,215
	SOT-23	40	120	380	1	568-4862-1-ND ***NEW!***	.45	5.12	14.24	568-4862-2-ND ***NEW!***	3,000	49.00/M	BAS40-05,215
4C	SOT-23	30	200	320	1	568-1614-1-ND	.38	4.31	12.00	568-1614-2-ND	3,000	41.00/M	BAT54S,215
	SOT-23	30	200	260	1	568-3422-1-ND	.60	8.84	28.50	568-3422-2-ND	3,000	103.00/M	BAT754S,215
	SOT-23	40	120	380	1	568-1602-1-ND	.45	5.12	14.24	568-1602-2-ND	3,000	49.00/M	BAS40-04,215
	SOT-23	40	200	420	100	568-3420-1-ND	.51	8.36	27.46	568-3420-2-ND	3,000	83.00/M	BAT721S,215
	SOT-23	70	70	410	1	568-1605-1-ND	.45	5.12	14.24	568-1605-2-ND	3,000	49.00/M	BAS70-04,215
4D	SOT-23	30	200	320	1	568-1611-1-ND	.38	4.31	12.00	568-1611-2-ND	3,000	41.00/M	BAT54A,215
	SOT-23	40	200	420	100	568-3418-1-ND	.44	7.13	23.40	568-3418-2-ND	3,000	83.00/M	BAT721A,215
	SOT-23	70	70	410	1	568-1607-1-ND	.45	5.12	14.24	568-1607-2-ND	3,000	49.00/M	BAS70-06,215
5A	SOT-323	30	200	320	1	568-3416-1-ND	.45	5.18	14.40	568-3416-2-ND	3,000	50.00/M	BAT54W,115
5B	SOT-323	70	70	410	1	568-3408-1-ND	.51	7.23	21.96	568-3408-2-ND	3,000	63.00/M	BAS70-04W,115
	SOT-323	30	200	320	1	568-1615-1-ND	.45	5.18	14.40	568-1615-2-ND	3,000	50.00/M	BAT54SW,115
5C	SOT-323	30	200	320	1	568-1613-1-ND	.45	5.18	14.40	568-1613-2-ND	3,000	50.00/M	BAT54CW,115
5D	SOT-323	30	200	320	1	568-3413-1-ND	.45	5.18	14.40	568-3413-2-ND	3,000	50.00/M	BAT54AW,115
6	SOT-143B	70	70	410	1	568-3409-1-ND	.62	8.77	26.64	568-3409-2-ND	3,000	83.00/M	BAS70-07,215
	SOT-143B	30	200	320	1	568-1616-1-ND	.50	7.03	21.36	568-1616-2-ND	3,000	84.00/M	BAT74,215
7	SOD-87	20	1000	450	1	568-1179-1-ND	.64	10.56	34.67	568-1179-2-ND	2,000	162.00/M	PRLL5817,115
	SOD-87	30	1000	550	1	568-3423-1-ND	.64	10.56	34.67	568-3423-2-ND	2,000	162.00/M	PRLL5818,115
	SOD-87	40	1000	600	1	568-1180-1-ND	.64	10.56	34.67	568-1180-2-ND	2,000	162.00/M	PRLL5819,115
12	DO-34	30	200	320	1	568-1617-1-ND	.44	6.14	18.66	568-1617-2-ND	10,000	59.00/M	BAT85,113
13	SOD-323	20	1A	270	10	568-5035-1-ND ***NEW!***	.44	7.26	23.83	568-5035-2-ND ***NEW!***	3,000	105.00/M	PMEG2010EA,115
	SOD-323	30	200	320	1	568-3406-1-ND	.70	7.99	22.24	568-3406-2-ND	3,000	65.00/M	1PS76SB10,115
	SOD-323F	10	2000	460	2000	568-4106-1-ND	.58	8.53	27.50	568-4106-2-ND	3,000	107.00/M	PMEG1020EJ,115
	SOD-323F	10	3000	530	3000	568-4108-1-ND★	.59	9.62	31.59	568-4108-2-ND	3,000	134.00/M	PMEG1030EJ,115
	SOD-323F	20	500	390	500	568-4110-1-ND	.48	6.98	22.50	568-4110-2-ND	3,000	95.00/M	PMEG2005EJ,115
	SOD-323F	20	1000	500	1000	568-4115-1-ND★	.44	7.26	23.83	568-4115-2-ND	3,000	105.00/M	PMEG2010EJ,115
	SOD-323F	20	1000	550	1000	568-4113-1-ND	.44	7.26	23.83	568-4113-2-ND	3,000	105.00/M	PMEG2010AEJ,115
	SOD-323F	20	1500	660	1500	568-4117-1-ND	.44	7.26	23.83	568-4117-2-ND	3,000	105.00/M	PMEG2015EJ,115
	SOD-323F	20	2000	525	2000	568-4119-1-ND★	.44	7.26	23.83	568-4119-2-ND	3,000	105.00/M	PMEG2020EJ,115
	SOD-323F	30	500	430	500	568-4122-1-ND	.48	6.98	22.50	568-4122-2-ND	3,000	95.00/M	PMEG3005EJ,115
	SOD-323F	30	1000	520	1000	568-4124-1-ND	.44	7.26	23.83	568-4124-2-ND	3,000	104.00/M	PMEG3010CEJ,115
	SOD-323F	30	1000	560	1000	568-4126-1-ND★	.44	7.26	23.83	568-4126-2-ND	3,000	104.00/M	PMEG3010EJ,115
	SOD-323F	30	1500	550	1500	568-4128-1-ND	.59	8.62	27.80	568-4128-2-ND	3,000	108.00/M	PMEG3015EJ,115
	SOD-323F	30	2000	620	2000	568-4130-1-ND	.44	7.26	23.83	568-4130-2-ND	3,000	104.00/M	PMEG3020EJ,115

(Continued)

Diodes

Schottky Barrier Diodes *(Cont.)*

Fig.	Package	Reverse Voltage V_R (V)	Continuous Forward Current I_F (mA)	Maximum Forward Voltage @ V_F (V)	I_F (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part-No	Tape and Reel Qty.	Pricing	NXP Part No.
13	SOD-323F	40	500	470	500	568-4133-1-ND	.48	6.98	22.50	568-4133-2-ND	3,000	95.00/M	PMEG4005EJ,115
	SOD-323F	40	1000	640	1000	568-4137-1-ND★	.44	7.26	23.83	568-4137-2-ND	3,000	104.00/M	PMEG4010EJ,115
	SOD-323F	40	1000	570	1000	568-4135-1-ND	.44	7.26	23.83	568-4135-2-ND	3,000	104.00/M	PMEG4010CEJ,115
	SOD-323F	60	1000	660	1000	568-4138-1-ND★	.44	7.26	23.83	568-4138-2-ND	3,000	105.00/M	PMEG6010CEJ,115
14	SOT-666	30	200	320	1	568-3414-1-ND	.58	10.11	34.65	568-3414-2-ND	4,000	163.00/M	BAT54CV,115
15A	SC-88	30	200	320	1	568-3417-1-ND	.61	9.98	32.76	568-3417-2-ND	3,000	139.00/M	BAT54XY,115
16	SC-74	60	1000	650	1000	568-4341-1-ND★	.44	7.26	23.83	568-4341-2-ND	3,000	105.00/M	PMEG6010AED,115
17	SOD-123F	10	2000	460	2000	568-4105-1-ND	.58	8.53	27.50	568-4105-2-ND	3,000	107.00/M	PMEG1020EH,115
	SOD-123F	10	3000	530	3000	568-4107-1-ND★	.59	9.62	31.59	568-4107-2-ND	3,000	134.00/M	PMEG1030EH,115
	SOD-123F	20	500	390	500	568-4109-1-ND	.48	6.98	22.50	568-4109-2-ND	3,000	95.00/M	PMEG2005EH,115
	SOD-123F	20	1000	430	1000	568-4112-1-ND	.44	7.26	23.83	568-4112-2-ND	3,000	105.00/M	PMEG2010AEH,115
	SOD-123F	20	1000	500	1000	568-4114-1-ND★	.44	7.26	23.83	568-4114-2-ND	3,000	105.00/M	PMEG2010EH,115
	SOD-123F	20	1500	660	1500	568-4116-1-ND	.36	5.86	19.25	—	—	—	PMEG2015EH,115
	SOD-123F	20	2000	525	2000	568-4118-1-ND★	.44	7.26	23.83	568-4118-2-ND	3,000	105.00/M	PMEG2020EH,115
	SOD-123F	30	500	430	500	568-4121-1-ND	.48	6.98	22.50	568-4121-2-ND	3,000	95.00/M	PMEG3005EH,115
	SOD-123F	30	1000	560	1000	568-4125-1-ND★	.44	7.26	23.83	568-4125-2-ND	3,000	104.00/M	PMEG3010EH,115
	SOD-123F	30	1500	550	1500	568-4127-1-ND	.59	8.62	27.80	568-4127-2-ND	3,000	108.00/M	PMEG3015EH,115
	SOD-123F	30	2000	620	2000	568-4129-1-ND	.44	7.26	23.83	568-4129-2-ND	3,000	104.00/M	PMEG3020EH,115
	SOD-123F	40	120	380	1	568-3407-1-ND	.46	6.52	19.80	568-3407-2-ND	3,000	66.00/M	BAS40H.115
	SOD-123F	40	500	470	500	568-4132-1-ND	.48	6.98	22.50	568-4132-2-ND	3,000	95.00/M	PMEG4005EH,115
	SOD-123F	40	1000	570	1000	568-4102-1-ND	.44	7.26	23.83	568-4102-2-ND	3,000	104.00/M	PMEG4010CEH,115
	SOD-123F	40	1000	640	1000	568-4136-1-ND★	.44	7.26	23.83	568-4136-2-ND	3,000	104.00/M	PMEG4010EH,115
	SOD-123F	60	1000	660	1000	568-4104-1-ND★	.44	7.26	23.83	568-4104-2-ND	3,000	105.00/M	PMEG6010CEH,115
	SOD-123F	70	70	410	1	568-3410-1-ND	.46	6.52	19.80	568-3410-2-ND	3,000	66.00/M	BAS70H,115
	SOD-123F	30	200	400	10	568-3415-1-ND	.64	7.36	20.48	568-3415-2-ND	3,000	60.00/M	BAT54H,115
18	SOD-882	30	200	500	100	568-4120-1-ND	.59	8.30	25.20	568-4120-2-ND	10,000	67.00/M	PMEG3002AEL,315
	SOD-882	40	200	400	100	568-4131-1-ND	.59	8.30	25.20	568-4131-2-ND	10,000	67.00/M	PMEG4002EL,315

★ **NXPMEGA1-KIT-ND** (3806684) 25 each of 17 values **$39.98**

Variable Capacitance Diodes

Fig.	Package	Reverse Voltage V_R (V)	CD @ 1MHz @V_R	(pF) Maximum	@ V_R	(pF) Maximum	Diode Series Resistance (Ω) Maximum	@ MHz	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
2	SOD-523	6	2.3	11.2	0.2	33.5	0.6	100	568-1953-1-ND	.80	13.96	47.85	568-1953-2-ND	225.00/M	BB202,115
	SOD-523	30	28	1.055	0.5	17	3	470	568-1948-1-ND	.54	8.91	29.25	568-1948-2-ND	124.00/M	BB181,115
	SOD-523	30	28	2.225	1	21.26	0.75	470	568-1946-1-ND	.54	8.91	29.25	568-1946-2-ND	124.00/M	BB179,115
	SOD-523	6	1	4.5	4	2.55	0.4	470	568-3425-1-ND	.40	6.62	21.74	—	—	BB141,115
	SOD-523	6	1	7.2	4	2.95	0.6	470	568-3428-1-ND	.54	8.91	29.25	568-3428-2-ND	124.00/M	BB145B,115
	SOD-523	32	25	2.92	2	34.2	0.75	470	568-1950-1-ND	.43	7.00	23.00	—	—	BB187,115
	SOD-523	32	28	2.25	1	20	0.75	470	568-1947-1-ND	.54	8.91	29.25	568-1947-2-ND	124.00/M	BB179B,115
	SOD-523	32	28	2.754	1	42.35	0.8	100	568-1945-1-ND	.40	7.02	24.06	568-1945-2-ND	140.00/M	BB178,115
	SOD-523	32	28	2.89	1	62	1.2	100	568-1949-1-ND	.48	7.84	25.74	568-1949-2-ND	109.00/M	BB182,115
4A	SOT-23	30	25	6	3	32	0.7	200	568-1957-1-ND	.46	7.48	24.57	568-1957-2-ND	104.00/M	BBY40,215
4B	SOT-23	15	7.5	29.7	1	86	0.4	100	568-1954-1-ND	.66	12.75	45.00	568-1954-2-ND	218.00/M	BB207,215
	SOT-23	15	7.5	29.7	1	102	0.5	100	568-1952-1-ND	.63	10.97	37.62	568-1952-2-ND	177.00/M	BB201,215
13	SOD-323	10	7.5	5.4	1	23.2	0.5	100	568-1955-1-ND	.66	12.75	45.00	568-1955-2-ND	218.00/M	BB208-03,115
	SOD-323	30	28	1.055	0.5	17	3	470	568-1944-1-ND	.54	8.91	29.25	568-1944-2-ND	124.00/M	BB131,115

PIN Diodes

Fig.	Package	Continuous Reverse Voltage Maximum (V)	Continuous Forward Current I_F (mA)	RD Maximum Ω @ 10mA	CD Maximum (pF) @ 1V	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
2	SOD-523	30	100	0.9	0.9	568-1937-1-ND	.44	7.13	23.40	568-1937-2-ND	3,000	99.00/M	BAP65-02,115
	SOD-523	35	100	0.5	1.05	568-1912-1-ND	.53	8.61	28.28	568-1912-2-ND	3,000	120.00/M	BA891,115
	SOD-523	50	100	1.8	0.32	568-1926-1-ND	.44	7.13	23.40	568-1926-2-ND	3,000	99.00/M	BAP63-02,115
	SOD-523	50	50	5	0.55	568-1915-1-ND	.44	7.13	23.40	568-1915-2-ND	3,000	99.00/M	BAP50-02,115
	SOD-523	50	100	7	0.4	568-1940-1-ND	.44	7.13	23.40	568-1940-2-ND	3,000	99.00/M	BAP70-02,115
	SOD-523	60	50	10	0.55	568-1921-1-ND	.35	5.76	18.91	—	—	—	BAP51-02,115
	SOD-523	60	100	1.8	0.45	568-1913-1-ND	.44	7.13	23.40	568-1913-2-ND	3,000	99.00/M	BAP1321-02,115
	SOD-523	175	100	3.8	0.35	568-1929-1-ND	.44	7.13	23.40	568-1929-2-ND	3,000	99.00/M	BAP64-02,115
4A	SOT-23	35	100	0.7 @ 5mA	1pF @ 20V	568-1943-1-ND	.63	9.28	29.95	568-1943-2-ND	3,000	108.00/M	BAT18,215
4B	SOT-23	50	50	5	0.6	568-1919-1-ND	.54	8.91	29.25	568-1919-2-ND	3,000	124.00/M	BAP50-05,215
	SOT-23	175	100	3.8	0.37	568-1933-1-ND	.54	8.91	29.25	568-1933-2-ND	3,000	124.00/M	BAP64-05,215
4C	SOT-23	50	50	5	0.6	568-1917-1-ND	.44	7.20	23.63	—	—	—	BAP50-04,215
	SOT-23	175	100	3.8	0.37	568-1931-1-ND	.54	8.91	29.25	568-1931-2-ND	3,000	124.00/M	BAP64-04,215
4D	SOT-23	175	100	3.8	0.37	568-1935-1-ND	.44	7.20	23.63	-—	—	—	BAP64-06,215
5B	SOT-323	50	50	5	0.6	568-1918-1-ND	.54	8.91	29.25	568-1918-2-ND	3,000	124.00/M	BAP50-04W,115
	SOT-323	100	100	3.8	0.37	568-1932-1-ND	.54	8.91	29.25	568-1932-2-ND	3,000	124.00/M	BAP64-04W,115
5C	SOT-323	50	50	2.5	0.55	568-1923-1-ND	.44	7.20	23.63	—	—	—	BAP51-05W,115
	SOT-323	50	100	1.8	0.35pF @ 20V	568-1928-1-ND	.54	8.91	29.25	568-1928-2-ND	3,000	124.00/M	BAP63-05W,115
	SOT-323	100	100	3.8	0.37	568-1934-1-ND	.54	8.91	29.25	568-1934-2-ND	3,000	124.00/M	BAP64-05W,115
5D	SOT-323	100	100	3.8	0.37	568-1936-1-ND	.54	8.91	29.25	568-1936-2-ND	3,000	124.00/M	BAP64-06W,115
13	SOD-323	30	100	0.9	0.9	568-1938-1-ND	.35	5.76	18.91	—	—	—	BAP65-03,115
	SOD-323	50	50	2.5	0.55	568-1922-1-ND	.44	7.13	23.40	568-1922-2-ND	3,000	99.00/M	BAP51-03,115
	SOD-323	50	50	5	0.55	568-1916-1-ND	.44	7.13	23.40	568-1916-2-ND	3,000	99.00/M	BAP50-03,115
	SOD-323	50	100	1.8	0.35	568-1927-1-ND	.44	7.13	23.40	568-1927-2-ND	3,000	99.00/M	BAP63-03,115
	SOD-323	50	100	7	0.4	568-1941-1-ND	.44	7.13	23.40	568-1941-2-ND	3,000	99.00/M	BAP70-03,115
	SOD-323	175	100	3.8	0.35	568-1930-1-ND	.44	7.13	23.40	568-1930-2-ND	3,000	99.00/M	BAP64-03,115
18	SOD-882	50	100	1.2	0.23	568-1925-1-ND	.44	7.13	23.40	568-1925-2-ND	10,000	87.00/M	BAP55L,315
	SOD-882	60	100	2.5	0.4	568-1924-1-ND	.41	6.79	22.31	—	—	—	BAP51L,315

(Continued)

ESD Protection Diodes

Fig.	Package	No. of Protected Lines		IRM @ VRWM		Cline Typ. (pF)	ESD (kV)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		NXP Part No.
		Uni-directional	Bi-directional	Max. (µA)	(V)				1	25	100	Qty.	Pricing	
1	SOD-323	—	1	2	3.3	101	30	568-4040-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD3V3L1BA,115
	SOD-323	1	—	0.1	3.3	2.6	9	568-4667-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD3V3U1UA,115
	SOD-323	—	1	1	5	75	30	568-4049-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD5V0L1BA,115
	SOD-323	—	1	0.1	5	2.9	10	568-4294-1-ND	.53	9.24	31.68	3,000	149.00/M	PESD5V0U1BA,115
	SOD-323	—	1	0.5	5	45	30	568-4053-1-ND	.59	8.62	27.80	3,000	94.00/M	PESD5V0S1BA,115
	SOD-323	1	—	0.1	5	2	9	568-4670-1-ND	.59	8.62	27.80	3,000	104.00/M	PESD5V0U1UA,115
	SOD-323	—	1	0.05	12	19	30	568-4022-1-ND	.59	8.62	27.80	3,000	104.00/M	PESD12VL1BA,115
	SOD-323	—	1	0.05	15	16	30	568-4027-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD15VL1BA,115
	SOD-323	—	1	0.05	24	11	23	568-4034-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD24VL1BA,115
	SOD-523	1	—	2	3.3	207	30	568-4044-1-ND	.60	8.39	25.50	3,000	85.00/M	PESD3V3S1UB,115
	SOD-523	1	—	0.1	3.3	2.6	9	568-4668-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD3V3U1UB,115
	SOD-523	—	1	0.1	5	45	30	568-4054-1-ND	.53	7.75	25.00	3,000	106.00/M	PESD5V0S1BB,115
	SOD-523	—	1	0.1	5	2.9	10	568-4295-1-ND	.53	9.24	31.68	3,000	149.00/M	PESD5V0U1BB T/R
	SOD-523	1	—	1	5	152	30	568-4055-1-ND	.60	8.39	25.50	3,000	85.00/M	PESD5V0S1UB,115
	SOD-523	1	—	0.1	5	2	9	568-4671-1-ND	.59	8.62	27.80	3,000	104.00/M	PESD5V0U1UB,115
	SOD-523	1	—	0.05	24	23	23	568-4036-1-ND	.60	8.39	25.50	3,000	85.00/M	PESD24VS1UB,115
	SOD-523	1	—	0.05	15/24	17	23	568-4033-1-ND‡	.59	8.62	27.80	3,000	94.00/M	PESD1LIN,115
	SOD-523	1	—	0.1	5	25	26	568-4806-1-ND	.47	6.74	21.56	3,000	88.00/M	PESD5V0L1UB,115
2	SOD-882	1	—	0.1	3.3	2.6	9	568-4669-1-ND	.52	7.60	24.50	10,000	76.00/M	PESD3V3U1UL,315
	SOD-882	1	—	0.1	5	2	9	568-4672-1-ND	.59	8.62	27.80	10,000	86.00/M	PESD5V0U1UL,315
	SOD-882	—	1	0.1	5	0.9	9	568-4674-1-ND	.55	9.63	33.00	10,000	159.00/M	PESD5V0X1BL,315
	SOD-882	1	—	0.05	12	38	30	568-4797-1-ND	.60	8.39	25.50	10,000	68.00/M	PESD12VS1UL,315
	SOD-882	—	1	0.1	5	35	30	568-4801-1-ND	.62	10.09	33.15	10,000	97.00/M	PESD5V0S1BL,315
	SOD-882	1	—	1	5	152	30	568-4802-1-ND	.53	7.75	25.00	10,000	78.00/M	PESD5V0S1UL,315
	SOD-882	—	1	0.1	5	2.9	10	568-4803-1-ND	.48	7.92	26.01	10,000	97.00/M	PESD5V0U1BL,315
	SOD-882	—	1	0.1	3.3	1.3	9	568-4805-1-ND	.88	17.00	60.00	10,000	260.00/M	PESD3V3X1BL,315
	SOD-882	1	—	0.1	5	25	26	568-4807-1-ND	.51	7.41	23.90	10,000	74.00/M	PESD5V0L1UL,315
3	SOT-23	—	2	2	3.3	101	30	568-4041-1-ND▲	.55	9.63	33.00	3,000	162.00/M	PESD3V3L2BT,215
	SOT-23	—	2	1	5	75	30	568-4050-1-ND▲	.52	9.09	31.15	3,000	152.00/M	PESD5V0L2BT,215
	SOT-23	—	2	0.1	5	35	30	568-4056-1-ND	.50	8.66	29.70	3,000	140.00/M	PESD5V0S2BT,215
	SOT-23	—	2	0.05	12	19	30	568-4023-1-ND▲	.50	8.66	29.70	3,000	164.00/M	PESD12VL2BT,215
	SOT-23	—	2	0.05	15	16	30	568-4028-1-ND▲	.50	8.66	29.70	3,000	164.00/M	PESD15VL2BT,215
	SOT-23	—	2	0.05	24	11	23	568-4035-1-ND▲	.55	9.63	33.00	3,000	162.00/M	PESD24VL2BT,215
	SOT-23	—	2	0.05	24	11	23	568-4032-1-ND‡	.59	8.62	27.80	3,000	83.00/M	PESD1CAN,215
	SOT-23	2	1	2	3.3	207	30	568-4046-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD3V3S2UT,215
	SOT-23	1	—	2	3.3	1.5	30	568-4047-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD3V3U1UT,215
	SOT-23	2	1	1	5	152	30	568-4060-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD5V2S2UT,215
	SOT-23	1	—	0.05	5	1.5	30	568-4058-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD5V0U1UT,215
	SOT-23	2	1	0.1	5	0.9	9	568-4676-1-ND	.73	14.17	50.01	3,000	284.00/M	PESD5V0X1BT,215
	SOT-23	2	1	1	12	38	30	568-4025-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD12VS2UT,215
	SOT-23	1	—	0.05	12	1.5	30	568-4026-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD12VU1UT,215
	SOT-23	2	1	1	15	32	30	568-4030-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD15VS2UT,215
	SOT-23	1	—	0.05	15	1.5	30	568-4031-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD15VU1UT,215
	SOT-23	2	1	1	24	23	23	568-4038-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD24VS2UT,215
	SOT-23	1	—	0.05	24	1.5	23	568-4039-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD24VU1UT,215
	SOT-23	2	—	2	3.3	207	30	568-4045-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD3V3S2UAT,215
	SOT-23	2	—	1	5	152	30	568-4057-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD5V0S2UAT,215
	SOT-23	2	—	0.05	12	38	30	568-4024-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD12VS2UAT,215
	SOT-23	2	—	0.05	15	32	30	568-4029-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD15VS2UAT,215
	SOT-23	2	—	0.05	24	23	23	568-4037-1-ND▲	.53	7.75	25.00	3,000	106.00/M	PESD24VS2UAT,215
	SOT-23	5	4	0.01	24	30	30	568-4147-1-ND‡	.53	7.75	25.00	3,000	106.00/M	PESD2CAN,215
	SOT-23	—	2	0.1	5	2.9	10	568-4296-1-ND	.54	8.91	29.25	3,000	115.00/M	PESD5V0U2BT,215
	SOT-663	2	1	0.1	3.3	200	30	568-4519-1-ND	.53	7.75	25.00	4,000	106.00/M	PESD3V3S2UQ,115
	SOT-663	2	1	0.3	5	150	30	568-4521-1-ND	.53	7.75	25.00	4,000	106.00/M	PESD5V0S2UQ,115
	SOT-663	2	1	0.1	5	0.9	9	568-4675-1-ND	.73	14.17	50.01	4,000	284.00/M	PESD5V0X1BQ,115
4	SOT-323	2	—	0.43	5	38	30	568-4808-1-ND	.52	7.60	24.50	3,000	88.00/M	PESD5V0L2UU,115
5	SOT-883	2	1	0.025	5	8	15	568-4798-1-ND	.45	8.26	28.32	10,000	127.00/M	PESD5V0L2UM,315
	SOT-883	2	—	0.1	5	2.9	10	568-4809-1-ND	.55	9.07	29.54	10,000	122.00/M	PESD5V0U2BM,315
6	SOT-143B	2	—	0.1	5.5	1.8	12	568-4139-1-ND▲	1.33	26.25	94.50	3,000	490.00/M	PRTR5V0U2AX,215
	SOT-143B	—	2	0.1	5.5	1	8	568-4140-1-ND▲	.61	10.69	36.66	3,000	179.00/M	PRTR5V0U2X,215
7	SOT-353	4	3	0.3	3.3	12	20	568-4042-1-ND	.52	9.09	31.15	3,000	152.00/M	PESD3V3L4UG,115
	SOT-353	4	—	0.3	3.3	15	12	568-4048-1-ND	.66	11.55	39.60	3,000	179.00/M	PESD3V3V4UG,115
	SOT-353	4	3	0.025	5	8	20	568-4051-1-ND	.61	10.69	36.66	3,000	179.00/M	PESD5V0L4UG,115
	SOT-353	4	—	0.025	5	12	12	568-4059-1-ND	.66	11.55	39.60	3,000	162.00/M	PESD5V0V4UG,115
8	SOT-363	5	4	0.3	3.3	22	20	568-4043-1-ND	.61	10.59	36.30	3,000	201.00/M	PESD3V3L5UY,115
	SOT-363	5	4	0.025	5	22	20	568-4052-1-ND	.61	10.69	36.66	3,000	203.00/M	PESD5V0L5UY,115
	SOT-363	5	4	0.8	3.3	215	30	568-4141-1-ND‡	.61	10.69	36.66	3,000	203.00/M	PESD3V3S5UD,115
	SOT-363	5	4	0.2	5	165	30	568-4142-1-ND‡	.61	10.69	36.66	3,000	203.00/M	PESD5V0S5UD,115
	SOT-363	5	4	0.015	12	73	30	568-4143-1-ND‡	.61	10.69	36.66	3,000	203.00/M	PESD12VS5UD,115
	SOT-363	5	4	0.015	15	60	30	568-4144-1-ND‡	.61	10.69	36.66	3,000	203.00/M	PESD15VS5UD,115
	SOT-363	5	4	0.015	24	45	23	568-4145-1-ND‡	.61	10.69	36.66	3,000	203.00/M	PESD24VS5UD,115
	SOT-457	4	3	0.8	3.3	215	30	568-4266-1-ND‡	.51	8.86	30.36	3,000	143.00/M	PESD3V3S4UD,115
	SOT-457	4	3	0.2	5	165	30	568-4267-1-ND‡	.51	8.86	30.36	3,000	143.00/M	PESD5V0S4UD,115
	SOT-457	4	3	0.015	12	73	30	568-4263-1-ND‡	.51	8.86	30.36	3,000	143.00/M	PESD12VS4UD,115
	SOT-457	4	3	0.015	15	60	30	568-4264-1-ND‡	.51	8.86	30.36	3,000	143.00/M	PESD15VS4UD,115
	SOT-457	4	3	0.015	24	45	23	568-4265-1-ND‡	.51	8.86	30.36	3,000	143.00/M	PESD24VS4UD,115
	SC-74	2	1	0.1	3	40	15	568-4146-1-ND▲	.64	10.45	34.32	3,000	145.00/M	PRTR5V0U4D,125
	SOT-666	5	—	0.025	5	16	20	568-4800-1-ND	.62	11.44	39.21	4,000	203.00/M	PESD5V0L5UV,115
9	6-XSON	2	2	0.1	3	1	8	568-4677-1-ND	.61	10.69	36.66	5,000	161.00/M	PRTR5V0U2F,115
	6-XSON	5	—	0.025	5	16	20	568-4799-1-ND	.45	8.26	28.32	5,000	137.00/M	PESD5V0L5UF,115
	6-XSON	4	—	0.025	5	12	12	568-4804-1-ND	.51	8.86	30.36	5,000	133.00/M	PESD5V0V4UF,115
	6-XSON	—	4	0.1	5	2.9	10	568-4810-1-ND	.61	10.02	32.92	10,000	134.00/M	PESD5V0U4BF,115
—	8-SOIC	6	5	0.025	5	16	20	568-4520-1-ND	.66	12.75	45.00	2,500	179.00/M	PESD5V0L6US,118
10	10-XSON	—	2	6V (BR)		0.7	8	568-4666-1-ND	.83	15.97	56.37	5,000	254.00/M	IP4281CZ10,115
11	WLCSP8	3	—	5.5		17	15	568-5065-1-ND ***NEW!***	.51	8.89	30.49	4,500	143.00/M	IP4364CX8/LF/P,135
	WLCSP8	3	—	5.5		17	15	568-5066-1-ND ***NEW!***	.63	10.96	37.59	4,500	177.00/M	IP4064CX8/LF/P,135
12	WLCSP25	10	—	6		50	20	568-5067-1-ND ***NEW!***	.81	15.61	55.11	4,500	266.00/M	IP4041CX25/LF/P,13

† For Tape and Reel part number, change 1-ND to 2-ND.

▲ **NXPESD1-KIT-ND** (Q3348629) 25 each of 18 values **$47.50**
‡ **NXPESD2-KIT-ND** (Q3455478) 25 each of 18 values **$47.50**

Fig. 1

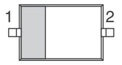

Fig. 2

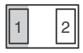

Fig. 3

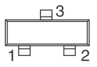

Fig. 4

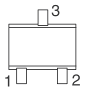

Fig. 5

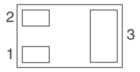

Fig. 6

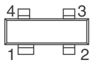

Fig. 7

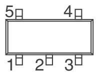

Fig. 8

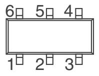

Fig. 9

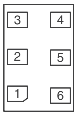

Fig. 10

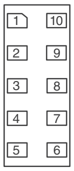

Fig. 11 ***NEW!***

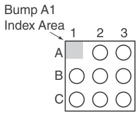

Transparent top view
Solder balls facing down

Fig. 12 ***NEW!***

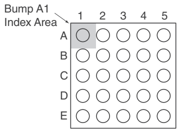

Transparent top view
Solder balls facing down

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Voltage Regulators

Fig. 1

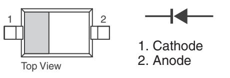

Fig. 2

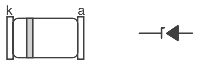

Fig. 3

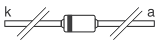

Fig. 4

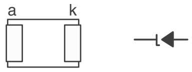

Fig. 5

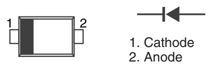

Fig. 6

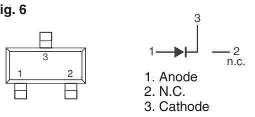

Fig. 7

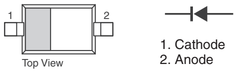

Fig. 8

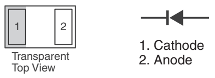

Fig. 9

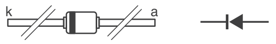

		Zener Voltage		Resistance Ω		Rev. Current IR (µA)			Cut Tape Pricing				Tape and Reel		
Fig.	Package	Min.	Max.	Max.	@ IZ (mA)	Max.	VR (V)	Digi-Key Part No.	1	25	100	Digi-Key Part No.	Qty.	Pricing	NXP Part No.
1	SOD-123F	2.2	2.6	85	5	50	1	568-3763-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C2V4,115
	SOD-123F	2.5	2.9	83	5	20	1	568-3764-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C2V7,115
	SOD-123F	2.8	3.2	95	5	10	1	568-3769-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C3V0,115
	SOD-123F	3.1	3.5	95	5	5	1	568-3770-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C3V3,115
	SOD-123F	4	4.6	95	5	3	1	568-3775-1-ND	.40	4.61	12.83	568-3775-2-ND	3,000	38.00/M	BZT52H-C4V3,115
	SOD-123F	4.4	5	78	5	3	2	568-3776-1-ND	.50	5.75	16.00	568-3776-2-ND	3,000	55.00/M	BZT52H-C4V7,115
	SOD-123F	4.8	5.4	60	5	2	2	568-3779-1-ND	.50	5.75	16.00	568-3779-2-ND	3,000	55.00/M	BZT52H-C5V1,115
	SOD-123F	5.2	6	40	5	1	2	568-3780-1-ND	.50	5.75	16.00	568-3780-2-ND	3,000	55.00/M	BZT52H-C5V6,115
	SOD-123F	5.8	6.6	10	5	3	4	568-3783-1-ND	.50	5.75	16.00	568-3783-2-ND	3,000	55.00/M	BZT52H-C6V2,115
	SOD-123F	6.4	7.2	8	5	2	4	568-3784-1-ND	.50	5.75	16.00	568-3784-2-ND	3,000	55.00/M	BZT52H-C6V8,115
	SOD-123F	7.7	8.7	10	5	0.7	5	568-3787-1-ND	.50	5.75	16.00	568-3787-2-ND	3,000	55.00/M	BZT52H-C8V2,115
	SOD-123F	8.5	9.6	10	5	0.5	6	568-3788-1-ND	.50	5.75	16.00	568-3788-2-ND	3,000	55.00/M	BZT52H-C9V1,115
	SOD-123F	9.4	10.6	10	8	0.2	7	568-3752-1-ND	.40	4.61	12.83	568-3752-2-ND	3,000	38.00/M	BZT52H-C10,115
	SOD-123F	16.8	19.1	20	5	0.05	12.6	568-3758-1-ND	.50	5.75	16.00	568-3758-2-ND	3,000	55.00/M	BZT52H-C18,115
	SOD-123F	18.8	21.2	20	5	0.05	14	568-3759-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C20,115
	SOD-123F	20.8	23.3	25	5	0.05	15.4	568-3760-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C22,115
	SOD-123F	22.8	25.6	30	5	0.05	16.8	568-3761-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C24,115
	SOD-123F	25.1	28.9	40	5	0.05	18.9	568-3762-1-ND	.40	4.61	12.83	568-3762-2-ND	3,000	38.00/M	BZT52H-C27,115
	SOD-123F	28	32	40	5	0.05	21	568-3765-1-ND	.50	5.75	16.00	568-3765-2-ND	3,000	55.00/M	BZT52H-C30,115
	SOD-123F	31	35	40	5	0.05	23.1	568-3766-1-ND	.50	5.75	16.00	568-3766-2-ND	3,000	55.00/M	BZT52H-C33,115
	SOD-123F	34	38	60	5	0.05	25.2	568-3767-1-ND	.50	5.75	16.00	568-3767-2-ND	3,000	55.00/M	BZT52H-C36,115
	SOD-123F	37	41	75	5	0.05	27.3	568-3768-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C39,115
	SOD-123F	40	46	80	5	0.05	30.1	568-3773-1-ND	.22	4.05	11.70	568-3773-2-ND	3,000	38.00/M	BZT52H-C43,115
	SOD-123F	48	54	100	5	0.05	35.7	568-3777-1-ND	.50	5.75	16.00	568-3777-2-ND	3,000	55.00/M	BZT52H-C51,115
	SOD-123F	52	60	120	2	0.05	39.2	568-3778-1-ND	.40	4.61	12.83	—	—	—	BZT52H-C56,115
	SOD-123F	58	66	140	2	0.05	43.4	568-3781-1-ND	.40	4.61	12.83	568-3781-2-ND	3,000	47.00/M	BZT52H-C62,115
	SOD-123F	64	72	160	2	0.05	47.6	568-3782-1-ND	.50	5.75	16.00	568-3782-2-ND	3,000	55.00/M	BZT52H-C68,115
2	SOD-80C	3.4	3.8	90	5	5	1	568-3794-1-ND	.35	3.75	10.00	568-3794-2-ND	2,500	32.00/M	BZV55-C3V6,115
	SOD-80C	3.7	4.1	90	5	3	1	568-3795-1-ND	.35	3.75	10.00	568-3795-2-ND	2,500	32.00/M	BZV55-C3V9,115
	SOD-80C	4.8	5.4	60	5	2	2	568-4874-1-ND ***NEW!***	.35	3.75	10.00	568-4874-2-ND ***NEW!***	2,500	32.00/M	BZV55-C5V1,115
	SOD-80C	5.2	6	40	5	1	2	568-3797-1-ND	.35	3.75	10.00	568-3797-2-ND	2,500	32.00/M	BZV55-C5V6,115
	SOD-80C	9.8	10.2	20	5	0.2	7	568-3790-1-ND	.63	7.19	20.00	568-3790-2-ND	2,500	69.00/M	BZV55-B10,115
	SOD-80C	11.4	12.7	25	5	0.1	8	568-5017-1-ND ***NEW!***	.35	3.75	10.00	568-5017-2-ND ***NEW!***	2,500	32.00/M	BZV55-C12,115
	SOD-80C	14.7	15.3	30	5	0.05	0.7	568-3791-1-ND	.63	7.19	20.00	568-3791-2-ND	2,500	69.00/M	BZV55-B15,115
	SOD-80C	34	38	90	2	0.8	25.2	568-3792-1-ND	.35	3.75	10.00	568-3792-2-ND	2,500	32.00/M	BZV55-C36,115
	SOD-80C	37	41	130	2	0.7	27.3	568-3793-1-ND	.35	3.75	10.00	568-3793-2-ND	2,500	32.00/M	BZV55-C39,115
	SOD-80C	44	50	170	2	0.05	32.9	568-3796-1-ND	.35	3.75	10.00	568-3796-2-ND	2,500	32.00/M	BZV55-C47,115
3	DO-35	4.4	5	80	5	3	2	568-1670-1-ND	.24	2.59	6.90	568-1670-2-ND	10,000	16.00/M	BZX79-C4V7,113
	DO-35	4.8	5.4	60	5	2	2	568-1671-1-ND	.24	2.59	6.90	568-1671-2-ND	10,000	16.00/M	BZX79-C5V1,113
	DO-35	5.2	6	40	5	1	2	568-3846-1-ND	.24	2.59	6.90	568-3846-4-ND◊	10,000	16.20/M	BZX79-C5V6,133
	DO-35	7.7	8.7	15	5	0.7	5	568-1672-1-ND	.24	2.59	6.90	568-1672-2-ND	10,000	16.00/M	BZX79-C8V2,113
	DO-35	11.4	12.7	25	5	0.1	8	568-3845-1-ND	.24	2.59	6.90	568-3845-4-ND◊	10,000	16.20/M	BZX79-C12,133
	DO-35	13.8	15.6	30	5	0.05	10.5	568-5018-1-ND ***NEW!***	.24	2.59	6.90	568-5018-2-ND ***NEW!***	10,000	16.00/M	BZX79-C15,113
4	SOD-110	7.7	8.7	10	5	0.7	5	568-3807-1-ND	.35	5.76	18.91	—	—	—	BZX284-C8V2,115
5	SOD-523	15.2	16.8	40	5	0.05	11.2	568-1784-1-ND	.70	7.99	22.24	568-1784-2-ND	3,000	65.00/M	BZX585-C16,115
	SOD-523	17.1	18.9	45	5	0.05	12.6	568-1785-1-ND	.70	7.99	22.24	568-1785-2-ND	3,000	65.00/M	BZX585-C18,115
	SOD-523	19	21	55	5	0.05	14	568-1786-1-ND	.56	6.41	17.84	—	—	—	BZX585-C20,115
	SOD-523	20.9	23.1	55	5	0.05	15.4	568-1787-1-ND	.70	7.99	22.24	568-1787-2-ND	3,000	65.00/M	BZX585-C22,115
	SOD-523	25.65	28.35	80	2	0.05	18.9	568-1789-1-ND	.56	6.41	17.84	—	—	—	BZX585-C27,115
	SOD-523	28.5	31.5	80	2	0.05	21	568-1790-1-ND	.70	7.99	22.24	568-1790-2-ND	3,000	65.00/M	BZX585-C30,115
	SOD-523	31.35	34.65	80	2	0.05	23.1	568-1791-1-ND	.56	6.41	17.84	—	—	—	BZX585-C33,115
	SOD-523	44.65	49.35	170	2	0.05	32.9	568-1795-1-ND	.56	6.41	17.84	568-1795-2-ND	3,000	52.00/M	BZX585-C47,115
	SOD-523	53.2	58.8	200	2	0.05	39.2	568-1797-1-ND	.56	6.41	17.84	568-1797-2-ND	3,000	52.00/M	BZX585-C56,115
	SOD-523	58.9	65.1	215	2	0.05	43.4	568-1798-1-ND	.56	6.41	17.84	—	—	—	BZX585-C62,115
	SOD-523	64.6	71.4	240	2	0.05	47.6	568-1799-1-ND	.56	6.41	17.84	—	—	—	BZX585-C68,115
	SOD-523	71.25	78.75	255	2	0.05	52.5	568-1800-1-ND	.70	7.99	22.24	568-1800-2-ND	3,000	65.00/M	BZX585-C75,115
6	SOT-23	2.2	2.6	100	5	50	1	568-4876-1-ND ***NEW!***	.31	3.34	8.90	568-4876-2-ND ***NEW!***	3,000	28.00/M	BZX84-C2V4,215
	SOT-23	3.1	3.5	95	5	5	1	568-1675-1-ND	.31	3.34	8.90	568-1675-2-ND	3,000	28.00/M	BZX84-C3V3,215
	SOT-23	4.4	5	80	5	3	2	568-1676-1-ND	.31	3.34	8.90	568-1676-2-ND	3,000	28.00/M	BZX84-C4V7,215
	SOT-23	4.8	5.4	60	5	2	2	568-1677-1-ND	.31	3.34	8.90	568-1677-2-ND	3,000	28.00/M	BZX84-C5V1,215
	SOT-23	5.2	6	40	5	1	2	568-1678-1-ND	.31	3.34	8.90	568-1678-2-ND	3,000	28.00/M	BZX84-C5V6,215
	SOT-23	5.8	6.6	10	5	3	4	568-1679-1-ND	.31	3.34	8.90	568-1679-2-ND	3,000	28.00/M	BZX84-C6V2,215
	SOT-23	6.4	7.2	15	5	2	4	568-1680-1-ND	.31	3.34	8.90	568-1680-2-ND	3,000	28.00/M	BZX84-C6V8,215
	SOT-23	9.4	10.6	20	5	0.2	7	568-1673-1-ND	.31	3.34	8.90	568-1673-2-ND	3,000	28.00/M	BZX84-C10,215
	SOT-23	11.4	12.7	25	5	0.1	8	568-1674-1-ND	.31	3.34	8.90	568-1674-2-ND	3,000	28.00/M	BZX84-C12,215
	SOT-23	13.8	15.6	30	5	0.05	10.5	568-4875-1-ND ***NEW!***	.31	3.34	8.90	568-4875-2-ND ***NEW!***	3,000	28.00/M	BZX84-C15,215
	SOT-23	16.8	19.1	45	5	0.05	12.6	568-4283-1-ND	.31	3.34	8.90	568-4283-2-ND	3,000	28.00/M	BZX84-C18,215
	SOT-23	40	46	150	2	0.05	30.1	568-3847-1-ND	.31	3.34	8.90	568-3847-2-ND	3,000	28.00/M	BZX84-C43,215
7	SOD-323	2.35	2.45	100	5	50	1	568-3819-1-ND	.49	6.91	21.00	568-3819-2-ND	3,000	44.00/M	BZX384-B2V4,115
	SOD-323	2.65	2.75	100	5	20	1	568-3820-1-ND	.49	6.91	21.00	568-3820-2-ND	3,000	44.00/M	BZX384-B2V7,115
	SOD-323	2.94	3.06	95	5	10	1	568-3825-1-ND	.49	6.91	21.00	568-3825-2-ND	3,000	44.00/M	BZX384-B3V0,115
	SOD-323	3.23	3.37	95	5	5	1	568-3826-1-ND	.49	6.91	21.00	568-3826-2-ND	3,000	44.00/M	BZX384-B3V3,115
	SOD-323	3.53	3.67	90	5	5	1	568-3827-1-ND	.49	6.91	21.00	568-3827-2-ND	3,000	44.00/M	BZX384-B3V6,115

◊ Ammo Pack

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Voltage Regulators *(Cont.)*

Fig.	Package	Zener Voltage Min.	Zener Voltage Max.	Resistance Ω Max.	Resistance Ω @ IZ (mA)	Rev. Current IR (µA) Max.	Rev. Current IR (µA) VR (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
7	SOD-323	3.82	3.98	90	5	3	1	568-3828-1-ND	.49	6.91	21.00	568-3828-2-ND	3,000	44.00/M	BZX384-B3V9,115
	SOD-323	4.21	4.39	90	5	3	1	568-3831-1-ND	.49	6.91	21.00	568-3831-2-ND	3,000	44.00/M	BZX384-B4V3,115
	SOD-323	4.61	4.79	80	5	3	2	568-3832-1-ND	.49	6.91	21.00	568-3832-2-ND	3,000	44.00/M	BZX384-B4V7,115
	SOD-323	5	5.2	60	2	2	2	568-3835-1-ND	.49	6.91	21.00	568-3835-2-ND	3,000	44.00/M	BZX384-B5V1,115
	SOD-323	5.49	5.71	40	5	1	2	568-3836-1-ND	.49	6.91	21.00	568-3836-2-ND	3,000	44.00/M	BZX384-B5V6,115
	SOD-323	6.08	6.32	10	5	3	4	568-3839-1-ND	.49	6.91	21.00	568-3839-2-ND	3,000	44.00/M	BZX384-B6V2,115
	SOD-323	6.66	6.94	15	5	2	4	568-3840-1-ND	.49	6.91	21.00	568-3840-2-ND	3,000	44.00/M	BZX384-B6V8,115
	SOD-323	7.35	7.65	15	5	1	5	568-3842-1-ND	.49	6.91	21.00	568-3842-2-ND	3,000	44.00/M	BZX384-B7V5,115
	SOD-323	8.04	8.36	15	5	0.7	5	568-3843-1-ND	.49	6.91	21.00	568-3843-2-ND	3,000	44.00/M	BZX384-B8V2,115
	SOD-323	8.92	9.28	15	5	0.5	6	568-3844-1-ND	.49	6.91	21.00	568-3844-2-ND	3,000	44.00/M	BZX384-B9V1,115
	SOD-323	9.8	10.2	20	5	0.2	7	568-3808-1-ND	.48	5.52	15.36	568-3808-2-ND	3,000	53.00/M	BZX384-B10,115
	SOD-323	10.8	11.2	20	5	0.1	8	568-3809-1-ND	.49	6.91	21.00	568-3809-2-ND	3,000	53.00/M	BZX384-B11,115
	SOD-323	10.4	11.6	20	5	0.1	8	568-1783-1-ND	.44	6.22	18.90	568-1783-2-ND	3,000	37.00/M	BZX384-C11,115
	SOD-323	11.8	12.2	25	5	0.1	8	568-3810-1-ND	.49	6.91	21.00	568-3810-2-ND	3,000	53.00/M	BZX384-B12,115
	SOD-323	12.7	13.3	30	5	0.1	8	568-3811-1-ND	.49	6.91	21.00	568-3811-2-ND	3,000	44.00/M	BZX384-B13,115
	SOD-323	14.7	15.3	30	5	0.05	10.5	568-3812-1-ND	.49	6.91	21.00	568-3812-2-ND	3,000	44.00/M	BZX384-B10,115
	SOD-323	15.7	16.3	40	5	0.05	11.2	568-3813-1-ND	.49	6.91	21.00	568-3813-2-ND	3,000	44.00/M	BZX384-B16,115
	SOD-323	17.6	18.4	45	5	0.05	12.6	568-3814-1-ND	.49	6.91	21.00	568-3814-2-ND	3,000	53.00/M	BZX384-B18,115
	SOD-323	19.6	20.4	55	5	0.05	14	568-3815-1-ND	.49	6.91	21.00	568-3815-2-ND	3,000	70.00/M	BZX384-B20,115
	SOD-323	21.6	22.4	55	5	0.05	15.4	568-3816-1-ND	.49	6.91	21.00	568-3816-2-ND	3,000	53.00/M	BZX384-B22,115
	SOD-323	23.5	24.5	70	5	0.05	16.8	568-3817-1-ND	.49	6.91	21.00	568-3817-2-ND	3,000	53.00/M	BZX384-B24,115
	SOD-323	26.5	27.5	80	2	0.05	18.9	568-3818-1-ND	.49	6.91	21.00	568-3818-2-ND	3,000	53.00/M	BZX384-B27,115
	SOD-323	29.4	30.6	80	2	0.05	21	568-3821-1-ND	.49	6.91	21.00	568-3821-2-ND	3,000	44.00/M	BZX384-B30,115
	SOD-323	32.3	33.7	80	2	0.05	23.1	568-3822-1-ND	.49	6.91	21.00	568-3822-2-ND	3,000	44.00/M	BZX384-B33,115
	SOD-323	35.3	36.7	90	2	0.05	25.2	568-3823-1-ND	.49	6.91	21.00	568-3823-2-ND	3,000	44.00/M	BZX384-B36,115
	SOD-323	38.2	39.8	130	2	0.05	27.3	568-3824-1-ND	.49	6.91	21.00	568-3824-2-ND	3,000	44.00/M	BZX384-B39,115
	SOD-323	42.1	43.9	150	2	0.05	30.1	568-3829-1-ND	.49	6.91	21.00	568-3829-2-ND	3,000	44.00/M	BZX384-B43,115
	SOD-323	46.1	47.9	170	2	0.05	32.9	568-3830-1-ND	.49	6.91	21.00	568-3830-2-ND	3,000	44.00/M	BZX384-B47,115
	SOD-323	50	52	180	2	0.05	35.7	568-3833-1-ND	.49	6.91	21.00	568-3833-2-ND	3,000	44.00/M	BZX384-B51,115
	SOD-323	54.9	57.1	200	2	0.05	39.2	568-3834-1-ND	.49	6.91	21.00	568-3834-2-ND	3,000	44.00/M	BZX384-B56,115
	SOD-323	60.8	63.2	215	2	0.05	43.4	568-3837-1-ND	.49	6.91	21.00	568-3837-2-ND	3,000	44.00/M	BZX384-B62,115
	SOD-323	66.6	69.4	240	2	0.05	47.6	568-3838-1-ND	.49	6.91	21.00	568-3838-2-ND	3,000	44.00/M	BZX384-B68,115
	SOD-323	73.5	76.5	255	2	0.05	52.5	568-3841-1-ND	.49	6.91	21.00	568-3841-2-ND	3,000	44.00/M	BZX384-B75,115
	SOD-323	5.48	5.73	50	5	1	2.5	568-3848-1-ND	.42	5.93	18.00	568-3848-2-ND	3,000	41.00/M	PDZ5.6B,115
	SOD-323F	2.3	2.6	100	5	50	1	568-3878-1-ND	.44	6.19	18.81	—	—	—	PZU2.4B,115
	SOD-323F	2.8	3.05	95	5	10	1	568-3896-1-ND	.48	6.98	22.50	568-3896-2-ND	3,000	81.00/M	PZU3.0B1,115
	SOD-323F	3.1	3.5	95	5	5	1	568-3898-1-ND	.55	7.70	23.40	568-3898-2-ND	3,000	78.00/M	PZU3.3B,115
	SOD-323F	3.25	3.5	95	5	5	1	568-3900-1-ND	.38	5.62	18.14	—	—	—	PZU3.3B2,115
	SOD-323F	3.4	3.8	90	5	5	1	568-3901-1-ND	.44	6.19	18.81	—	—	—	PZU3.6B,115
	SOD-323F	3.7	4.1	90	5	3	1	568-3904-1-ND	.44	6.19	18.81	—	—	—	PZU3.9B,115
	SOD-323F	3.87	4.1	90	5	3	1	568-3906-1-ND	.38	5.62	18.14	—	—	—	PZU3.9B2,115
	SOD-323F	4.15	4.34	90	5	3	1	568-3912-1-ND	.48	6.98	22.50	568-3912-2-ND	3,000	81.00/M	PZU4.3B2,115
	SOD-323F	4.42	4.61	80	5	2	1	568-3915-1-ND	.38	5.62	18.14	—	—	—	PZU4.7B1,115
	SOD-323F	4.55	4.75	80	5	2	1	568-3916-1-ND	.38	5.62	18.14	—	—	—	PZU4.7B2,115
	SOD-323F	4.84	5.04	60	5	2	1.5	568-3919-1-ND	.38	5.62	18.14	—	—	—	PZU5.1B1,115
	SOD-323F	4.98	5.2	60	5	2	1.5	568-3920-1-ND	.38	5.62	18.14	—	—	—	PZU5.1B2,115
	SOD-323F	5.14	5.37	60	5	2	1.5	568-3921-1-ND	.48	6.98	22.50	568-3921-2-ND	3,000	81.00/M	PZU5.1B3,115
	SOD-323F	5.49	5.73	40	5	1	2.5	568-3924-1-ND	.38	5.62	18.14	—	—	—	PZU5.6B2,115
	SOD-323F	6.06	6.33	30	5	0.5	3	568-3928-1-ND	.38	5.62	18.14	—	—	—	PZU6.2B2,115
	SOD-323F	6.47	7.14	20	5	0.5	3.5	568-3930-1-ND	.55	7.70	23.40	568-3930-2-ND	3,000	78.00/M	PZU6.8B,115
	SOD-323F	7.52	7.84	10	5	0.5	4	568-3937-1-ND	.38	5.62	18.14	—	—	—	PZU7.5B3,115
	SOD-323F	8.02	8.36	10	5	0.5	5	568-3940-1-ND	.38	5.62	18.14	—	—	—	PZU8.2B2,115
	SOD-323F	8.28	8.64	10	5	0.5	5	568-3941-1-ND	.38	5.62	18.14	—	—	—	PZU8.2B3,115
	SOD-323F	8.56	9.55	10	5	0.5	6	568-3942-1-ND	.55	7.70	23.40	568-3942-2-ND	3,000	78.00/M	PZU9.1B,115
	SOD-323F	8.56	8.93	10	5	0.5	6	568-3943-1-ND	.38	5.62	18.14	—	—	—	PZU9.1B1,115
	SOD-323F	8.85	9.23	10	5	0.5	6	568-3944-1-ND	.38	5.62	18.14	—	—	—	PZU9.1B2,115
	SOD-323F	9.15	9.55	10	5	0.5	6	568-3945-1-ND	.38	5.62	18.14	—	—	—	PZU9.1B3,115
	SOD-323F	9.45	10.55	10	5	0.1	7	568-3849-1-ND	.44	6.19	18.81	—	—	—	PZU10B,115
	SOD-323F	9.45	9.87	10	5	0.1	7	568-3850-1-ND	.38	5.62	18.14	—	—	—	PZU10B1,115
	SOD-323F	9.77	10.21	10	5	0.1	7	568-3851-1-ND	.38	5.62	18.14	—	—	—	PZU10B2,115
	SOD-323F	10.11	10.55	10	5	0.1	7	568-3852-1-ND	.38	5.62	18.14	—	—	—	PZU10B3,115
	SOD-323F	10.76	11.22	10	5	0.1	8	568-3855-1-ND	.38	5.62	18.14	—	—	—	PZU11B2,115
	SOD-323F	11.42	12.6	10	5	0.1	9	568-3857-1-ND	.44	6.19	18.81	—	—	—	PZU12B,115
	SOD-323F	12.08	12.6	10	5	0.1	9	568-3860-1-ND	.38	5.62	18.14	—	—	—	PZU12B3,115
	SOD-323F	12.47	13.96	10	5	0.1	10	568-3861-1-ND	.44	6.19	18.81	—	—	—	PZU13B,115
	SOD-323F	12.91	13.49	10	5	0.1	10	568-3863-1-ND	.38	5.62	18.14	—	—	—	PZU13B2,115
	SOD-323F	13.84	15.52	15	5	0.05	11	568-3866-1-ND	.44	6.19	18.81	—	—	—	PZU15B,115
	SOD-323F	14.34	14.98	15	5	0.05	11	568-3868-1-ND	.38	5.62	18.14	—	—	—	PZU15B2,115
	SOD-323F	15.37	17.09	20	5	0.05	12	568-3870-1-ND	.55	7.70	23.40	568-3870-2-ND	3,000	78.00/M	PZU16B,115
	SOD-323F	16.35	17.09	20	5	0.05	12	568-3873-1-ND	.38	5.62	18.14	—	—	—	PZU16B3,115
	SOD-323F	17.56	18.35	20	5	0.05	13	568-3876-1-ND	.38	5.62	18.14	—	—	—	PZU18B2,115
	SOD-323F	18.86	19.7	20	5	0.05	15	568-3883-1-ND	.38	5.62	18.14	—	—	—	PZU20B1,115
	SOD-323F	19.52	20.39	20	5	0.05	15	568-3884-1-ND	.38	5.62	18.14	—	—	—	PZU20B2,115
	SOD-323F	20.21	21.08	20	5	0.05	15	568-3885-1-ND	.38	5.62	18.14	—	—	—	PZU20B3,115
	SOD-323F	20.88	21.77	25	5	0.05	17	568-3887-1-ND	.38	5.62	18.14	—	—	—	PZU22B1,115
	SOD-323F	28	32	40	5	0.05	23	568-3907-1-ND	.44	6.19	18.81	—	—	—	PZU30B,115
8	SOD-882	17.1	18.9	45	5	0.05	12.6	568-1802-1-ND	.44	6.37	20.55	—	—	—	BZX884-C18,315
	SOD-882	28.5	31.5	80	2	0.05	21	568-1807-1-ND	.44	6.37	20.55	—	—	—	BZX884-C30,315
	SOD-882	40.85	.45.15	150	2	0.05	30.1	568-1811-1-ND	.44	6.37	20.55	—	—	—	BZX884-C43,315
9	DO-41	11.4	12.7	10	20	0.2	8.4	568-3798-1-ND	.50	7.11	21.60	568-3798-2-ND	5,000	42.00/M	BZV85-C12,113
	DO-41	4.8	5.4	550	1	10	1	568-1362-1-ND	.47	4.99	13.30	568-1362-2-ND	5,000	31.00/M	1N4733A,113
	DO-41	5.32	5.88	600	1	10	2	568-4851-1-ND ***NEW!***	.47	4.99	13.30	568-4851-2-ND ***NEW!***	5,000	31.00/M	1N4734A,113
	DO-41	5.89	6.51	700	1	10	2	568-4852-1-ND ***NEW!***	.47	4.99	13.30	568-4852-2-ND ***NEW!***	5,000	31.00/M	1N4735A,113
	DO-41	8.64	9.55	700	0.5	10	7	568-4853-1-ND ***NEW!***	.47	4.99	13.30	568-4853-2-ND ***NEW!***	5,000	31.00/M	1N4739A,113
	DO-41	11.4	12.6	700	0.25	5	9.1	568-1363-1-ND	.47	4.99	13.30	568-1363-2-ND	5,000	31.00/M	1N4742A,113
	DO-41	12.35	13.65	700	0.25	5	9.9	568-4854-1-ND ***NEW!***	.47	4.99	13.30	568-4854-2-ND ***NEW!***	5,000	31.00/M	1N4743A,113
	DO-41	14.25	15.75	700	0.25	5	11.4	568-1364-1-ND	.47	4.99	13.30	568-1634-2-ND	3,000	55.00/M	1N4744A,113
	DO-41	15.2	16.8	750	0.25	5	13.7	568-4855-1-ND ***NEW!***	.47	4.99	13.30	568-4855-2-ND ***NEW!***	5,000	31.00/M	1N4746A,113
	DO-41	19	21	750	0.25	5	15.2	568-4856-1-ND ***NEW!***	.47	4.99	13.30	568-4856-2-ND ***NEW!***	5,000	31.00/M	1N4747A,113
	DO-41	22.8	25.2	750	0.25	5	18.2	568-4857-1-ND ***NEW!***	.47	4.99	13.30	568-4857-2-ND ***NEW!***	5,000	31.00/M	1N4749A,113

◊ Ammo Pack

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Triacs

Fig. 1

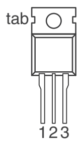

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig. 2

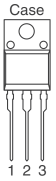

1: Main Terminal 1
2: Main Terminal 2
3: Gate
Case: Isolated

Fig. 3

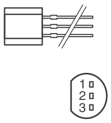

1. Main Terminal 2
2. Gate
3. Main Terminal 1

Fig. 4 ***NEW!***

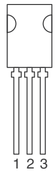

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig. 5

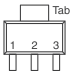

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig. 6

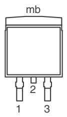

1. Main Terminal 1
2. Main Terminal 2
3. Gate
MB- Main Terminal 2

Fig. 7

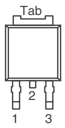

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig.	Package	V_{DRM} (V)	I_T (RMS) (A)	I_{GT} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1	TO-220AB	600	4	70	568-3650-5-ND†	.70	13.56	47.25	—	—	—	BT136-600,127
	TO-220AB	600	4	10	568-3651-5-ND†	.70	12.86	44.10	—	—	—	BT136-600D,127
	TO-220AB	600	8	70	568-3656-5-ND†	.95	18.90	66.15	—	—	—	BT137-600,127
	TO-220AB	600	8	10	568-3657-5-ND†	.95	18.90	66.15	—	—	—	BT137-600D,127
	TO-220AB	600	8	25	568-3658-5-ND†	.95	18.90	66.15	—	—	—	BT137-600E,127
	TO-220AB	600	8	50	568-5016-ND† ***NEW!***	.95	18.90	66.15	—	—	—	BT137-600G,127
	TO-220AB	800	8	70	568-3659-5-ND†	.88	17.05	59.40	—	—	—	BT137-800,127
	TO-220AB	600	12	70	568-3663-5-ND†	1.18	23.52	82.32	—	—	—	BT138-600,127
	TO-220AB	600	16	70	568-3665-5-ND†	.93	18.67	65.34	—	—	—	BT139-600,127
	TO-220AB	600	16	25	568-3666-5-ND†	1.21	24.15	84.53	—	—	—	BT139-600E,127
	TO-220AB	800	16	70	568-3667-5-ND†	1.18	23.52	82.32	—	—	—	BT139-800,127
	TO-220AB	600	25	70	568-3685-5-ND†	1.72	34.69	124.88	—	—	—	BTA140-600,127
	TO-220AB	800	25	70	568-3686-5-ND†	1.33	26.60	93.10	—	—	—	BTA140-800,127
	TO-220AB	600	8	50	568-3708-5-ND†	1.01	20.16	70.56	—	—	—	BTA208-600B,127
	TO-220AB	600	8	25	568-3711-5-ND†	1.01	20.16	70.56	—	—	—	BTA208-600F,127
	TO-220AB	600	16	5	568-1779-ND†	1.51	30.10	105.35	—	—	—	BTA216-600D,127
	TO-220AB	800	25	50	568-4980-5-ND† ***NEW!***	1.80	36.25	130.50	—	—	—	BTA225-800B,127
	TO-220AB	600	25	50	568-4981-5-ND† ***NEW!***	1.86	37.50	135.00	—	—	—	BTA225-600B-127
2	TO-220F	600	8	70	568-3662-ND†	.79	15.73	55.04	—	—	—	BT137X-600,127
	TO-220F	600	12	70	568-3664-ND†	.99	19.85	69.46	—	—	—	BT138X-600,127
	TO-220F	800	16	35	568-3669-ND†	1.27	25.36	88.76	—	—	—	BT139X-800,127
	TO-220F	600	8	5	568-3717-ND†	1.05	21.00	73.50	—	—	—	BTA208X-600D,127
	TO-220F	1000	8	35	568-2371-5-ND†	1.12	22.40	78.40	—	—	—	BTA208X-1000B,127
	TO-220F	600	12	5	568-3729-ND†	1.40	28.00	98.00	—	—	—	BTA212X-600D,127
	TO-220F	800	12	50	568-3731-ND†	1.40	28.00	98.00	—	—	—	BTA212X-800B,127
	TO-220F	600	16	10	568-3742-5-ND†	1.72	34.30	120.05	—	—	—	BTA216X-600E,127
	TO-220F	600	16	25	568-3743-5-ND†	1.72	34.30	120.05	—	—	—	BTA216X-600F,127
3	TO-92	600	1	50	568-3687-ND†	.78	15.19	52.92	—	—	—	BTA201-600B,112
	TO-92	400	0.6	7	568-3744-ND†	.56	8.11	25.96	—	—	—	MAC97A6,412
	TO-92	600	0.6	7	568-3745-ND†	.56	8.11	25.96	—	—	—	MAC97A8,412
	TO-92	800	1	3	568-3747-ND†	.43	7.88	27.00	—	—	—	Z0103NA,412
	TO-92	600	1	5	568-3748-ND†	.58	9.56	31.12	—	—	—	Z0107MA,412
	TO-92	600	1	10	568-3750-ND†	.37	6.73	23.09	—	—	—	Z0109MA,412
	TO-92	800	1	10	568-3751-ND†	.45	8.31	28.50	—	—	—	Z0109NA,412
4	SOT82	600	4	10	568-5015-ND† ***NEW!***	.58	10.75	36.87	—	—	—	BT134-600E,127
5	SOT-223	600	1	35	568-1774-1-ND	.61	10.59	36.30	568-1774-2-ND	4,000	171.00/M	BT134W-600,135
	SOT-223	600	1	10	568-3649-1-ND	.58	10.11	34.65	568-3649-2-ND	1,000	179.00	BT134W-600D,115
	SOT-223	600	1	25	568-3701-1-ND	.71	13.73	48.45	—	—	—	BTA204W-600F /T3
	SOT-223	800	1	10	568-3702-1-ND	.71	13.76	48.57	—	—	—	BTA204W-800E /T3
	SOT-223	600	1	3	568-2193-1-ND	.52	9.14	31.35	568-2193-2-ND	4,000	140.00/M	Z0103MN,135
	SOT-223	800	1	3	568-2194-1-ND	.50	8.66	29.70	568-2194-2-ND	4,000	140.00/M	Z0103NN,135

† Bulk

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Triacs *(Cont.)*

Fig.	Package	V_{DRM} (V)	I_T (RMS) (A)	I_{GT} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
5	SOT-223	600	1	5	568-2195-1-ND	.52	9.14	31.35	568-2195-2-ND	4,000	147.00/M	Z0107MN,135
	SOT-223	600	1	10	568-2197-1-ND	.52	9.14	31.35	568-2197-2-ND	4,000	147.00/M	Z0109MN,135
	SOT-223	800	1	10	568-2198-1-ND	.52	9.14	31.35	568-2198-2-ND	4,000	147.00/M	Z0109NN,135
6	D2PAK	600	12	5	568-3726-1-ND	1.54	29.73	107.90	—	—	—	BTA212B-600D /T3
	D2PAK	600	12	10	568-3727-1-ND	1.56	30.05	109.08	—	—	—	BTA212B-600E /T3
	D2PAK	600	16	50	568-3736-1-ND	1.65	31.84	115.57	—	—	—	BTA216B-600B /T3
	D2PAK	600	16	5	568-3737-1-ND	1.81	34.90	126.69	—	—	—	BTA216B-600D /T3
	D2PAK	600	16	10	568-3738-1-ND	1.81	34.90	126.69	—	—	—	BTA216B-600E /T3
	D2PAK	800	16	50	568-3740-1-ND	1.65	31.84	115.57	—	—	—	BTA216B-800B /T3
	D2PAK	800	25	50	568-1780-1-ND	2.75	53.01	192.42	568-1780-2-ND	800	806.40	BTA225B-800B,118
7	DPAK	600	4	70	568-3652-1-ND	1.14	22.50	81.00	568-3652-2-ND	2,500	420.00/M	BT136S-600,118
	DPAK	600	4	10	568-3653-1-ND	.79	15.30	54.00	568-3653-2-ND	2,500	261.00/M	BT136S-600D,118
	DPAK	800	4	10	568-4979-1-ND ***NEW!***	.99	19.06	67.26	568-4979-2-ND ***NEW!***	2,500	305.00/M	BTA204S-800E,118
	DPAK	800	4	25	568-3655-1-ND	1.03	20.33	73.19	—	—	—	BT136S-800E /T3
	DPAK	600	8	10	568-3660-1-ND	.92	17.85	63.00	568-3660-2-ND	2,500	305.00/M	BT137S-600D,118
	DPAK	600	4	50	568-3696-1-ND	.93	17.99	63.48	568-3696-2-ND	2,500	305.00/M	BTA204S-600B,118
	DPAK	600	4	25	568-3698-1-ND	.80	15.47	54.62	—	—	—	BTA204S-600F /T3
	DPAK	600	8	5	568-3713-1-ND	1.22	24.17	86.99	568-3713-2-ND	2,500	378.00/M	BTA208S-600D,118
	DPAK	600	8	10	568-3714-1-ND	1.20	23.78	85.62	568-3714-2-ND	2,500	378.00/M	BTA208S-600E,118
	DPAK	600	8	25	568-3715-1-ND	1.20	23.78	85.62	568-3715-2-ND	2,500	378.00/M	BTA208S-600F,118

† Bulk

Thyristors

Fig. 1

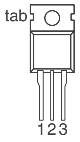

1. Cathode
2. Anode
3. Gate
Tab - Anode

Fig. 2

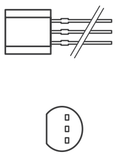

Fig. 3

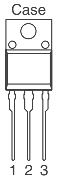

1. Cathode
2. Anode
3. Gate
Case - Isolated

Fig. 4

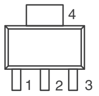

1. Cathode
2. Anode
3. Gate
4. Anode

Fig. 5

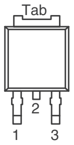

1. Cathode
2. Anode
3. Gate
Tab - Anode

Fig.	Package	V_{DRM} (V)	On State RMS Current I_T (RMS)(A)	Peak Surge Current I_{TSM} (A)	Peak Gate Power P_{GM} (W)	Digi-Key Part No.	Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1	TO-220AB	800	25	300	20	568-3670-5-ND	1.58	31.50	110.25	—	—	—	BT145-800R,127
	TO-220AB	500	12	120	5	568-3673-5-ND	.78	15.11	52.65	—	—	—	BT151-500R,127
	TO-220AB	650	12	120	5	568-3674-5-ND	.82	15.87	55.30	—	—	—	BT151-650R,127
	TO-220AB	800	12	120	5	568-3675-5-ND	.83	16.55	57.92	—	—	—	BT151-800R,127
	TO-220AB	450	20	200	20	568-3676-5-ND	1.08	21.65	75.78	—	—	—	BT152-400R,127
	TO-220AB	800	20	200	20	568-3678-5-ND	1.18	23.52	82.32	—	—	—	BT152-800R,127
2	TO-92	600	0.8	8	2	568-3672-ND	.48	6.88	22.00	—	—	—	BT149G,412
	TO-92	200	0.51	10	0.1	568-4443-ND	.45	7.42	24.15	—	—	—	2N5064,112
	TO-92	500	0.8	8	2	568-3680-ND	.48	6.88	22.00	—	—	—	BT168E,112
	TO-92	600	0.8	8	2	568-3681-ND	.48	6.88	22.00	—	—	—	BT168G,112
	TO-92	600	0.8	8	2	568-3683-ND	.48	6.88	22.00	—	—	—	BT169G,112
3	TO-220F	450	20	200	20	568-3679-ND	1.51	30.10	105.35	—	—	—	BT152X-400R,127
4	SOT-223	600	1	10	1.2	568-3671-1-ND‡	.70	13.60	48.00	568-3671-2-ND	1,000	473.00	BT148W-600R,115
	SOT-223	600	1	8	2	568-3682-1-ND‡	.58	9.50	31.20	568-3682-2-ND	1,000	144.00	BT168GW,115
5	DPAK	600	8	65	5	568-3684-1-ND‡	1.31	25.95	93.42	568-3684-2-ND	2,500	274.00/M	BT300S-600R,118
						NEW! AC Thyristors NEW!							
2	TO-92	650	0.8	8	0.1	568-4982-1-ND‡	.88	17.00	60.00	568-4982-2-ND	2,000	254.00/M	ACT108-600E,126
4	SOT-223	650	0.8	8	0.1	568-4912-1-ND‡	.92	17.85	63.00	568-4912-2-ND	4,000	305.00/M	ACT108W-600E,135

‡ Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IGBT Transistors

Fig. 1

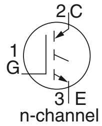

Fig. 2

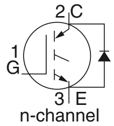

TO-220AB

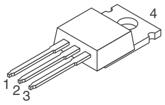

TO-220AB FULLPAK ***NEW!***

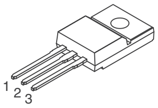

TO-247AC

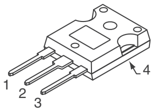

TO-247AD

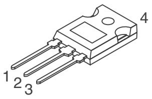

SUPER-247

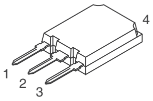

D^{2}PAK

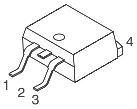

D-PAK

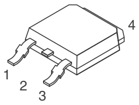

TO-220 FULLPAK

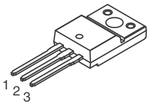

TO-262

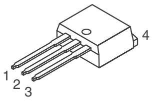

Fig.	Package	VCE	VCE (Sat) Maximum	IC @ TC +25°C	Pulse Current ICM	Maximum Power Dissipation 25°C	Delay Time (ns) Td (on)	Delay Time (ns) Td (off)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	TO-220AB	430	1.2	20	—	125	0.9◊	6◊	IRGB14C40LPBF-ND◆	3.39	3.03	2.48
	TO-220AB	600	2.39	9.0	18	38	11	51	IRG4BC10KPBF-ND◆	1.81	1.64	1.32
	TO-220AB	600	1.1	14	18	38	25	630	IRG4BC10SPBF-ND◆	1.82	1.65	1.32
	TO-220AB	600	2.15	8.5	34	38	40	87	IRG4BC10UPBF-ND◆	1.82	1.65	1.33
	TO-220AB	600	2.8	16	32	60	28	190	IRG4BC20KPBF-ND◆	2.18	1.98	1.59
	TO-220AB	600	1.6	19	38	60	27	540	IRG4BC20SPBF-ND◆	2.27	2.05	1.65
	TO-220AB	600	2.27	13	52	60	20	190	IRG4BC20UPBF-ND◆	2.20	1.99	1.60
	TO-220AB	600	1.99	31	120	100	20	290	IRG4BC30FPBF-ND◆	2.73	2.47	1.98
	TO-220AB	600	1.4	34	68	100	22	540	IRG4BC30SPBF-ND◆	2.68	2.42	1.95
	TO-220AB	600	2.70	23	92	100	24	150	IRG4BC30WPBF-ND◆	2.73	2.47	1.98
	TO-220AB	600	1.5	49	200	160	26	240	IRG4BC40FPBF-ND◆	3.21	2.87	2.36
	TO-220AB	600	2.15	40	160	160	30	220	IRG4BC40UPBF-ND◆	3.26	2.92	2.40
	TO-220AB	600	2.05	40	160	160	27	100	IRG4BC40WPBF-ND◆	3.47	3.10	2.55
	TO-220AB	600	2.2	13	26	90	25	215	IRGB6B60KPBF-ND◆	2.42	2.19	1.76
	TO-220AB	600	1.95	78	120	370	46	185	IRGB30B60KPBF-ND◆	4.10	3.66	3.01
2	TO-220AB	430	—	10	—	—	—	—	IRGI4059DPBF-ND◆	3.33	2.97	2.44
	TO-220AB	600	1.58	22	44	48	41	100	IRGI4062DPBF-ND◆	6.48	5.79	4.75
	TO-220AB	600	1.1	14	18	38	76	815	IRG4BC10SDPBF-ND◆	2.42	2.19	1.76
	TO-220AB	600	2.15	8.5	34	38	40	87	IRG4BC10UDPBF-ND◆	2.34	2.12	1.70
	TO-220AB	600	2.02	14	42	49	17	160	IRG4BC15UDPBF-ND◆	2.50	2.26	1.82
	TO-220AB	600	2.27	16	32	60	54	180	IRG4BC20KDPBF-ND◆	2.94	2.66	2.14
	TO-220AB	600	2.1	18	36	60	21	463	IRG4BC20MDPBF-ND◆	2.93	2.62	2.15
	TO-220AB	600	1.4	19	38	60	62	690	IRG4BC20SDPBF-ND◆	2.92	2.61	2.14
	TO-220AB	600	2.27	13	52	60	38	100	IRG4BC20UDPBF-ND◆	2.98	2.69	2.16
	TO-220AB	600	1.59	31	120	100	22	250	IRG4BC30FD1PBF-ND◆	3.06	2.74	2.25
	TO-220AB	600	2.21	28	58	100	60	160	IRG4BC30KDPBF-ND◆	3.50	3.13	2.57
	TO-220AB	600	2.52	23	92	100	40	120	IRG4BC30UDPBF-ND◆	3.55	3.17	2.60
	TO-220AB	600	2.5	11	22	63	22	100	IRGB4B60KD1PBF-ND◆	3.09	2.80	2.25
	TO-220AB	600	2.2	13	26	90	25	215	IRGB6B60KDPBF-ND◆	2.92	2.61	2.14
	TO-220AB	600	2.2	22	44	156	30	230	IRGB10B60KDPBF-ND◆	3.79	3.39	2.78
	TO-220AB	600	2.2	31	62	208	34	184	IRGB15B60KDPBF-ND◆	4.55	4.06	3.33
	TO-220AB	1200	3.0	12	24	89	22	100	IRGB5B120KDPBF-ND◆	6.17	5.51	4.52
1	TO-220AB FULLPAK	300	1.94	21	—	34	20	99	IRGI4090PBF-ND◆ ***NEW!***	2.93	2.62	2.15
	TO-220AB FULLPAK	330	1.65	24	—	39	24	89	IRG6I320UPBF-ND◆ ***NEW!***	2.72	2.46	1.98
	TO-220AB FULLPAK	330	1.55	28	—	43	39	120	IRG6I330UPBF-ND◆ ***NEW!***	3.91	3.49	2.87
2	TO-220AB FULLPAK	600	2.0	11	18	33	26	73	IRGI4045DPBF-ND◆ ***NEW!***	3.59	3.21	2.64
	TO-220AB FULLPAK	600	1.72	14	23	37	29	101	IRGI4060DPBF-ND◆ ***NEW!***	3.79	3.38	2.78
1	TO-247AC	250	1.32	98	196	200	40	270	IRG4P254SPBF-ND◆	7.75	6.98	5.74
	TO-247AC	300	1.46	70	—	160	36	112	IRGP4086PBF-ND◆	3.67	3.28	2.69
	TO-247AC	600	2.1	13	52	60	20	190	IRG4PC20UPBF-ND◆	3.49	3.12	2.56
	TO-247AC	600	1.59	31	120	100	21	200	IRG4PC30FPBF-ND◆	3.96	3.54	2.91
	TO-247AC	600	2.70	23	92	100	25	99	IRG4PC30WPBF-ND◆	4.03	3.60	2.96
	TO-247AC	600	1.5	49	200	160	26	240	IRG4PC40FPBF-ND◆	4.72	4.21	3.46
	TO-247AC	600	2.1	42	84	160	30	140	IRG4PC40KPBF-ND◆	4.73	4.23	3.47
	TO-247AC	600	2.15	40	160	160	30	220	IRG4PC40UPBF-ND◆	4.77	4.26	3.49
	TO-247AC	600	2.05	40	160	160	27	100	IRG4PC40WPBF-ND◆	4.83	4.32	3.54
	TO-247AC	600	1.36	70	140	200	33	650	IRG4PC50SPBF-ND◆	5.97	5.33	4.37
	TO-247AC	600	2.30	55	220	200	46	120	IRG4PC50WPBF-ND◆	6.87	6.14	5.04
	TO-247AC	600	1.8	90	120	520	42	310	IRG4PC60FPBF-ND◆	7.52	6.77	5.57
	TO-247AC	900	2.25	51	204	200	29	110	IRG4PF50WPBF-ND◆	6.44	5.75	4.72
	TO-247AC	1200	2.74	30	60	160	30	200	IRG4PH40KPBF-ND◆	5.33	4.76	3.91
	TO-247AC	1200	2.43	30	82	160	24	220	IRG4PH40UPBF-ND◆	4.70	4.20	3.45
	TO-247AC	1200	1.47	57	114	200	32	845	IRG4PH50SPBF-ND◆	6.73	6.02	4.94
	TO-247AC	1200	2.0	90	90	385	25	229	IRG7PH42UPBF-ND◆ ***NEW!***	8.79	7.92	6.51
2	TO-247AC	300	1.70	70	120	180	18	144	IRGP4072DPBF-ND◆ ***NEW!***	6.85	6.17	5.07
	TO-247AC	600	1.99	31	120	100	42	310	IRG4PC30FDPBF-ND◆	4.94	4.41	3.62

◊ μs ◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

IGBT Transistors *(Cont.)*

Fig.	Package	VCE	VCE (Sat) Maximum	IC @ TC +25°C	Pulse Current ICM	Maximum Power Dissipation 25°C	Delay Time (ns) Td (on)	Delay Time (ns) Td (off)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
2	TO-247AC	600	2.7	28	58	100	60	160	IRG4PC30KDPBF-ND◆	4.75	4.24	3.48
	TO-247AC	600	1.95	23	92	100	40	91	IRG4PC30UDPBF-ND◆	4.75	4.25	3.48
	TO-247AC	600	1.85	49	200	160	63	350	IRG4PC40FDPBF-ND◆	5.73	5.12	4.20
	TO-247AC	600	2.14	96	192	330	55	165	IRGP4063DPBF-ND◆	9.18	8.26	6.79
	TO-247AC	600	2.15	40	160	160	40	200	IRG4PC40UDPBF-ND◆	6.34	5.67	4.65
	TO-247AC	600	2.00	55	220	200	44	240	IRG4PC50UDPBF-ND◆	7.48	6.73	5.54
	TO-247AC	600	2.0	55	220	200	46	140	IRG4PC50UD-EPBF-ND◆	8.03	7.23	5.95
	TO-247AC	600	2.35	40	80	220	20	115	IRGP20B60PDPBF-ND◆	6.17	5.51	4.52
	TO-247AC	600	2.15	60	120	308	26	110	IRGP35B60PDPBF-ND◆	7.16	6.44	5.30
	TO-247AC	600	2.2	75	150	370	34	130	IRGP50B60PDPBF-ND◆	8.91	8.02	6.60
	TO-247AC	600	2.35	75	150	390	30	130	IRGP50B60PD1PBF-ND◆	8.28	7.46	6.13
	TO-247AC	900	2.25	51	204	200	71	150	IRG4PF50WDPBF-ND◆	8.05	7.25	5.96
	TO-247AC	900	2.7	51	204	200	71	150	IRG4PF50WD-201P-ND◆	8.88	7.99	6.57
	TO-247AC	1200	2.43	30	82	160	46	150	IRG4PH40UDPBF-ND◆	6.59	5.89	4.83
	TO-247AC	1200	3.17	11	22	60	50	100	IRG4PH20KDPBF-ND◆	4.42	3.95	3.24
	TO-247AC	1200	2.0	85	90	320	25	229	IRG7PH42UDPBF-ND◆ ***NEW!***	11.43	10.29	8.46
1	TO-247AD	1200	3.05	40	120	300	50	204	IRGP20B120U-E-ND	7.78	5.70	4.72
	TO-247AD	1200	3.05	40	120	300	50	204	IRGP20B120U-EP-ND◆	6.98	6.28	5.17
	TO-247AD	1200	1.75	57	114	200	32	845	IRG4PH50S-EPBF-ND◆ ***NEW!***	7.63	6.87	5.65
	TO-247AD	1200	2.0	90	90	385	25	229	IRG7PH42U-EP-ND◆ ***NEW!***	8.99	8.10	6.66
2	TO-247AD	600	2.1	40	160	160	54	110	IRG4PC40UD-EPBF-ND◆	6.57	5.87	4.81
	TO-247AD	600	1.6	70	280	200	55	240	IRG4PC50FD-EPBF-ND◆ ***NEW!***	7.80	7.02	5.77
	TO-247AD	600	2.35	60	120	304	46	185	IRGP30B60KD-EP-ND◆	6.88	6.20	5.10
	TO-247AD	1200	2.43	41	82	160	22	100	IRG4PH40UD2-E-ND	9.69	7.09	5.88
	TO-247AD	1200	2.43	41	82	160	22	100	IRG4PH40UD2-EP-ND◆	6.47	5.83	4.79
	TO-247AD	1200	2.0	85	90	320	25	229	IRG7PH42UD-EP-ND◆ ***NEW!***	11.63	10.47	8.61
1	SUPER-247	600	1.83	85	200	350	34	251	IRG4PSC71KPBF-ND◆	10.72	9.65	7.94
	SUPER-247	1200	2.7	99	200	350	51	280	IRG4PSH71UPBF-ND◆	14.83	13.48	11.46
	SUPER-247	1200	2.97	78	156	350	45	220	IRG4PSH71KPBF-ND◆	12.84	11.68	9.93
	SUPER-247	1200	3.40	80	160	595	76	332	IRGPS40B120UPBF-ND◆	10.59	9.54	7.84
2	SUPER-247	600	1.83	85	200	350	82	282	IRG4PSC71KDPBF-ND◆	13.66	12.42	10.56
	SUPER-247	600	2.00	85	200	350	90	245	IRG4PSC71UDPBF-ND◆	13.88	12.62	10.73
	SUPER-247	1200	2.7	99	200	350	46	250	IRG4PSH71UDPBF-ND◆	20.90	19.33	16.46
	SUPER-247	1200	2.97	78	156	350	67	230	IRG4PSH71KDPBF-ND◆	20.09	18.27	15.53
	SUPER-247	1200	2.50	105	240	595	72	366	IRGPS60B120KDP-ND◆	17.17	15.62	13.28
1	D2PAK	300	1.4	70	—	178	30	170	IRGS4065PBF-ND◆	6.51	4.46	3.55
	D2PAK	430	1.2	20	—	125	0.9	6	IRGS14C40LPBF-ND◆	3.19	2.85	2.34
	D2PAK	600	1.4	34	68	100	22	540	IRG4BC30S-SPBF-ND◆	3.04	2.75	2.21
	D2PAK	600	2.7	28	58	100	26	130	IRG4BC30K-SPBF-ND◆	2.79	2.52	2.03
	D2PAK	600	2.05	40	160	160	27	100	IRG4BC40W-SPBF-ND◆	3.52	3.14	2.58
	D2PAK	1200	3.17	11	22	60	23	93	IRG4BH20K-SPBF-ND◆	2.36	2.13	1.71
2	D2PAK	600	1.10	14	18	38	76	815	IRG4BC10SD-SPBF-ND◆	2.47	2.23	1.80
	D2PAK	600	2.02	14	42	49	17	160	IRG4BC15UD-SPBF-ND◆	2.55	2.31	1.86
	D2PAK	600	2.8	16	32	60	54	180	IRG4BC20KD-SPBF-ND◆	2.99	2.70	2.17
	D2PAK	600	1.85	18	36	60	21	463	IRG4BC20MD-S-ND	4.13	2.83	2.25
	D2PAK	600	1.4	19	38	60	62	690	IRG4BC20SD-SPBF-ND◆	2.96	2.65	2.17
	D2PAK	600	1.85	13	52	60	39	93	IRG4BC20UD-SPBF-ND◆	3.03	2.74	2.20
	D2PAK	600	1.99	31	120	100	42	310	IRG4BC30FD-SPBF-ND◆	3.48	3.11	2.56
	D2PAK	600	1.85	24	48	140	40	94	IRGS4056DPBF-ND◆	4.48	4.00	3.28
	D2PAK	600	1.95	48	96	250	53	115	IRGS4062DPBF-ND◆	6.22	5.55	4.56
1	D-PAK	600	2.39	9.0	18	38	11	51	IRG4RC10KPBF-ND◆	1.71	1.52	1.20
	D-PAK	600	1.7	8	18	38	25	630	IRG4RC10S-ND	1.84	1.20	.92
	D-PAK	600	2.05	14	18	38	25	630	IRG4RC10STRRPBFCT-ND◆†	1.76	1.52	1.24
	D-PAK	600	2.05	14	18	38	25	630	IRG4RC10STRRPBFTR-ND◆‡	2040.00/3,000		
2	D-PAK	600	2.4	7.8	15.6	52	18	110	IRGR3B60KD2TRPCT-ND◆†	1.81	1.56	1.27
	D-PAK	600	2.4	7.8	15.6	52	18	110	IRGR3B60KD2TRPTR-ND◆‡	1398.00/2,000		
1	TO-220 FULLPAK	330	—	28	—	38	45	234	IRGI4085-111PBF-ND◆	6.43	5.75	4.72
2	TO-220 FULLPAK	600	1.65	18	27	34	34	84	IRGI4056DPBF-ND◆ ***NEW!***	4.75	4.24	3.48
	TO-220 FULLPAK	600	1.59	20	40	43	35	134	IRGI4061DPBF-ND◆	5.20	4.64	3.81
	TO-220 FULLPAK	600	1.80	15	24	38	29	84	IRGI4064DPBF-ND◆ ***NEW!***	4.48	4.00	3.28
	TO-220 FULLPAK	600	2.0	14.3	64	34	43	240	IRG4IBC20FDPBF-ND◆	2.93	2.62	2.15
	TO-220 FULLPAK	600	2.21	17	34	45	60	160	IRG4IBC30KDPBF-ND◆	3.81	3.41	2.80
	TO-220 FULLPAK	600	1.95	17	92	45	40	91	IRG4IBC30UDPBF-ND◆	3.86	3.45	2.83
	TO-220 FULLPAK	600	2.20	11	22	38	25	215	IRGIB6B60KD116P-ND◆	2.97	2.66	2.18
	TO-220 FULLPAK	600	2.2	12	24	39	23	140	IRGIB7B60KDPBF-ND◆	3.84	3.43	2.81
	TO-220 FULLPAK	600	2.1	16	32	44	25	180	IRGIB10B60KD1P-ND◆	3.84	3.44	2.82
2	TO-262	600	1.10	14	18	38	76	815	IRG4BC10SD-LPBF-ND◆	2.52	2.28	1.83
	TO-262	600	2.02	14	42	49	17	160	IRG4BC15UD-LPBF-ND◆	2.60	2.35	1.89
	TO-262	600	2.5	11	22	63	22	100	IRGSL4B60KD1PBF-ND◆	3.00	2.71	2.18
	TO-262	600	2.2	13	26	90	25	215	IRGSL6B60KDPBF-ND◆	3.01	2.69	2.21
	TO-262	600	2.20	22	44	156	30	250	IRGSL10B60KDPBF-ND◆	3.88	3.47	2.85
	TO-262	600	1.95	48	96	250	53	115	IRGSL4062DPBF-ND◆	6.26	5.59	4.59

◊ µs ◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

International IOR Rectifier

N and P Channel HEXFETs

Fig. 1 — TO-220AB

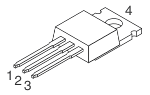

1. Gate 3. Source
2. Drain 4. Drain

Fig. 2 — TO-220 FULLPAK

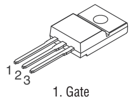

1. Gate
2. Drain
3. Source

Fig. 3 — TO-247AC

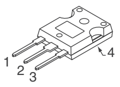

1. Gate 3. Source
2. Drain 4. Drain

Fig. 4 — TO-262

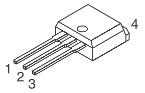

1. Gate 3. Source
2. Drain 4. Drain

Fig. 5 — I-Pak

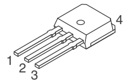

1. Gate 3. Source
2. Drain 4. Drain

Fig. 6 — Super-220™

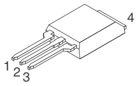

1. Gate 3. Source
2. Drain 4. Drain

Fig. 7 — Super-247™

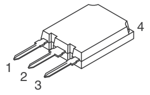

1. Gate 3. Source
2. Drain 4. Drain

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES — RoHS Compliant									
TO-220AB									
1	-55	-12	0.175	-48	45	IRF9Z24NPBF-ND	1.23	1.09	.86
	-55	-19	0.1	-68	56	IRF9Z34NPBF-ND	1.39	1.24	.98
	-55	-31	0.06	-110	110	IRF5305PBF-ND	1.61	1.43	1.13
	-55	-74	0.02	-260	150	IRF4905PBF-ND	2.81	2.54	2.05
	-100	-14	0.2	-56	75	IRF9530NPBF-ND	1.55	1.38	1.09
	-100	-23	0.117	-76	94	IRF9540NPBF-ND	1.77	1.60	1.29
	-100	-40	0.06	-140	150	IRF5210PBF-ND	2.66	2.41	1.94
	-150	-13	0.29	-44	83	IRF6215PBF-ND	1.56	1.42	1.14
TO-220 FULLPAK									
2	-55	-14	0.015	-60	33	IRLIB9343PBF-ND	1.17	1.04	.82
TO-247AC									
3	-100	-23	0.117	-76	140	IRFP9140NPBF-ND	1.96	1.78	1.43
TO-262									
4	-55	-19	0.1	-68	3.8	IRF9Z34NLPBF-ND	1.69	1.50	1.19
I-Pak									
5	-55	-11	0.175	-44	38	IRFU9024NPBF-ND	.84	.74	.57
	-55	-18	0.11	-64	57	IRFU5505PBF-ND	.89	.79	.62
	-55	-28	0.065	-110	110	IRFU5305PBF-ND	1.27	1.13	.89
	-100	-13	0.205	-52	66	IRFU5410PBF-ND	1.24	1.10	.87
	-150	-13	0.295	-44	110	IRFU6215PBF-ND	1.36	1.21	.96
N-CHANNEL TYPES									
TO-220AB — RoHS Compliant									
1	20	36	0.016	140	35	IRL3714ZPBF-ND	1.41	1.25	.99
	20	50	0.011	200	45	IRL3715ZPBF-ND	1.57	1.42	1.14
	20	54	0.014	210	71	IRL3715PBF-ND	1.68	1.49	1.18
	20	67	0.0079	260	57	IRF3704ZPBF-ND	1.92	1.73	1.40
	20	77	0.09	308	87	IRF3704PBF-ND	1.93	1.75	1.40
	20	180	0.004	700	230	IRF1302PBF-ND	2.82	2.55	2.05
	24	195	0.0015	1412	300	IRF1324PBF-ND ***NEW!***	3.50	3.13	2.57
	30	59	0.0095	230	57	IRF3707ZPBF-ND	1.70	1.54	1.24
	30	62	0.0087	250	65	IRLB8721PBF-ND ***NEW!***	.98	.86	.66
	30	75	0.0024	1020	290	IRF2903ZPBF-ND	4.34	3.88	3.18
	30	87	0.0063	350	79	IRF3709ZPBF-ND	2.23	2.01	1.62
	30	78	0.0048	370	75	IRLB8748PBF-ND ***NEW!***	.95	.84	.67
	30	105	0.006	420	110	IRL8113PBF-ND	2.14	1.94	1.56
	30	140	0.006	470	200	IRL3803PBF-ND	3.00	2.71	2.18
	30	78	0.0032	620	140	IRLB8743PBF-ND ***NEW!***	1.20	1.07	.85
	30	210	0.0028	1000	230	IRF3703PBF-ND	4.27	3.82	3.13
	30	260	0.00195	1050	230	IRLB3813PBF-ND ***NEW!***	2.11	1.91	1.54
	40	75	0.0055	470	140	IRF4104PBF-ND	2.71	2.45	1.97
	40	75	0.0037	750	220	IRF1404ZPBF-ND	2.95	2.66	2.14
	40	75	0.0023	1080	330	IRF2804PBF-ND	5.00	4.47	3.67
	40	100	0.009	400	170	IRF1104PBF-ND	2.17	1.97	1.58
	40	75	0.0037	750	220	IRF1404ZGPBF-ND ***NEW!***	3.09	2.80	2.25
	40	202	0.004	808	333	IRF1404PBF-ND	2.98	2.66	2.19
	40	210	0.0036	850	330	IRF2204PBF-ND	3.46	3.09	2.54
	40	195	0.00175	1310	380	IRFB3004PBF-ND ***NEW!***	3.76	3.36	2.76
	40	195	0.00175	1310	380	IRFB3004GPBF-ND ***NEW!***	3.20	2.86	2.35
	55	17	0.07	68	45	IRFZ24NPBF-ND	1.21	1.07	.85
	55	18	0.074	72	45	IRLZ24NPBF-ND	1.21	1.08	.85
	55	29	0.04	100	56	IRFZ34NPBF-ND	1.38	1.23	.97
	55	30	0.035	110	68	IRLZ34NPBF-ND	1.35	1.20	.95
	55	47	0.022	160	83	IRLZ44NPBF-ND	1.67	1.48	1.17
	55	49	0.024	160	83	IRFZ44NPBF-ND	1.68	1.50	1.18
	55	51	0.0139	200	80	IRFZ44ZPBF-ND	1.65	1.46	1.16
	55	51	0.0135	204	80	IRLZ44ZPBF-ND	1.79	1.62	1.30
	55	53	0.0165	180	107	IRFZ46NPBF-ND	1.65	1.46	1.16
	55	61	0.011	240	91	IRFZ48ZPBF-ND	1.62	1.46	1.18
	55	64	0.016	210	94	IRFZ48NPBF-ND	1.66	1.50	1.21
	55	75	0.008	340	130	IRL3705ZPBF-ND	2.49	2.25	1.81
	55	75	0.007	440	170	IRF3205ZPBF-ND	2.26	2.04	1.64
	55	75	0.005	600	230	IRF1405ZPBF-ND	2.92	2.64	2.12
	55	75	0.0047	700	330	IRF2805PBF-ND	3.15	2.81	2.31
	55	85	0.012	290	130	IRF1010NPBF-ND	1.97	1.79	1.44
	55	110	0.008	390	150	IRF3205PBF-ND	2.31	2.09	1.68
	55	169	0.0053	680	330	IRF1405PBF-ND	3.02	2.70	2.22
	60	28	0.042	112	68	IRFZ34EPBF-ND	1.65	1.46	1.16
	60	43	0.0126	170	71	IRFB3806PBF-ND	1.44	1.28	1.01
	60	48	0.023	192	110	IRFZ44EPBF-ND	1.64	1.49	1.20
	60	55	0.0165	220	115	IRFZ44VPBF-ND	1.72	1.52	1.21
	60	57	0.012	230	92	IRFZ44VZPBF-ND	1.60	1.45	1.16
	60	75	0.0085	340	140	IRF1010EZPBF-ND	2.09	1.89	1.52
	60	79	0.0071	315	110	IRF1018EPBF-ND	1.86	1.68	1.35
	60	160	0.0042	620	230	IRFB3306PBF-ND	2.86	2.59	2.08
	60	160	0.0042	620	230	IRFB3306GPBF-ND ***NEW!***	3.00	2.72	2.19
1	60	195	0.0025	1080	375	IRFB3006PBF-ND	3.86	3.45	2.83
	60	120	0.0030	840	300	IRFB3206GPBF-ND ***NEW!***	3.82	3.42	2.80
	60	210	0.0030	840	300	IRFB3206PBF-ND	3.64	3.25	2.67
	60	195	0.0025	1080	375	IRFB3006GPBF-ND ***NEW!***	4.05	3.62	2.97
	75	75	0.00734	310	140	IRFB3607PBF-ND	1.83	1.66	1.33
	75	75	0.009	350	170	IRF2807ZPBF-ND	2.39	2.17	1.74
	75	75	.0045	680	300	IRF2907ZPBF-ND	4.03	3.60	2.95
	75	120	0.0058	480	230	IRFB3307ZPBF-ND	3.07	2.78	2.23
	75	120	0.0058	480	230	IRFB3307ZGPBF-ND ***NEW!***	2.91	2.60	2.14
	75	120	0.0041	670	300	IRFB3207ZPBF-ND	3.64	3.25	2.67
	75	120	.0028	850	370	IRFB3077PBF-ND	4.48	4.00	3.28
	75	130	0.0063	510	250	IRFB3307PBF-ND	4.37	3.91	3.21
	75	130	0.0078	520	330	IRF1407PBF-ND	3.01	2.69	2.21
	75	140	0.007	550	330	IRF3808PBF-ND	3.16	2.83	2.32
	75	180	0.0045	720	330	IRFB3207PBF-ND	5.26	4.70	3.86
	100	9.7	0.2	38	48	IRF520NPBF-ND	1.23	1.09	.86
	100	17	0.11	60	63	IRF530NPBF-ND	1.44	1.28	1.01
	100	18	0.0725	57	60	IRFB4212PBF-ND	1.66	1.50	1.21
	100	33	0.052	110	94	IRF540NPBF-ND	1.58	1.43	1.15
	100	36	0.0265	140	92	IRF540ZPBF-ND	1.70	1.54	1.24
	100	42	0.036	140	120	IRF1310NPBF-ND	2.00	1.81	1.45
	100	57	0.028	180	150	IRF3710PBF-ND	2.30	2.08	1.68
	100	59	0.025	236	200	IRFB59N10DPBF-ND	2.99	2.70	2.17
	100	59	0.018	240	160	IRF3710ZPBF-ND	2.23	2.01	1.62
	100	73	0.014	290	190	IRFB4610PBF-ND	3.00	2.69	2.20
	100	75	0.014	300	200	IRFB4710PBF-ND	3.06	2.74	2.25
	100	80	0.015	320	260	IRF8010PBF-ND	2.68	2.42	1.95
	100	96	0.010	380	250	IRFB4410PBF-ND	3.79	3.39	2.78
	100	97	0.0090	390	230	IRFB4410ZPBF-ND	3.54	3.17	2.60
	100	97	0.0090	390	230	IRFB4410ZGPBF-ND ***NEW!***	2.69	2.43	1.96
	100	120	0.0048	560	250	IRFB4310ZPBF-ND	3.54	3.17	2.60
	100	130	0.007	550	330	IRFB4310PBF-ND	5.11	4.57	3.75
	100	180	0.0045	670	370	IRFB4110PBF-ND	4.83	4.32	3.54
	100	120	0.0045	670	370	IRFB4110GPBF-ND ***NEW!***	5.07	4.53	3.72
	100	180	0.0045	670	370	IRFB4110QPBF-ND	5.25	3.60	2.86
	150	21	0.082	84	94	IRF3315PBF-ND	1.86	1.69	1.36
	150	23	0.09	92	136	IRFB23N15DPBF-ND	2.37	2.14	1.72
	150	33	0.056	130	170	IRFB33N15DPBF-ND	2.98	2.70	2.17
	150	35	0.039	140	144	IRFB4615PBF-ND	3.27	2.92	2.40
	150	35	0.039	140	144	IRFB5615PBF-ND ***NEW!***	2.11	1.91	1.53
	150	41	0.045	164	200	IRFB41N15DPBF-ND	2.90	2.62	2.11
	150	43	0.042	150	150	IRF3415PBF-ND	2.85	2.58	2.07
	150	51	0.032	240	230	IRFB52N15DPBF-ND	3.54	3.17	2.60
	150	83	0.015	330	330	IRFB4321PBF-ND	3.54	3.17	2.60
	150	83	0.015	330	330	IRFB4321GPBF-ND ***NEW!***	3.72	3.32	2.73
	150	104	0.011	420	380	IRFB4115PBF-ND ***NEW!***	3.64	3.25	2.67
	150	104	0.011	420	380	IRFB4115GPBF-ND ***NEW!***	3.82	3.41	2.80
	200	9.3	0.3	37	82	IRF630NPBF-ND	1.49	1.33	1.05
	200	18	0.15	72	150	IRF640NPBF-ND	1.88	1.70	1.37
	200	24	0.1	96	170	IRFB23N20DPBF-ND	3.31	2.96	2.43
	200	25	0.0725	100	144	IRFB4620PBF-ND	2.43	2.97	2.43
	200	25	0.0725	100	144	IRFB5620PBF-ND ***NEW!***	2.56	2.32	1.86
	200	31	0.082	124	200	IRFB31N20DPBF-ND	3.44	3.08	2.52
	200	43	0.054	180	230	IRFB38N20DPBF-ND	4.12	3.68	3.02
	200	44	0.055	180	330	IRFB42N20DPBF-ND	4.42	3.95	3.24
	200	56	0.04	220	380	IRFB260NPBF-ND	3.95	3.53	2.90
	200	76	0.020	300	375	IRFB4127PBF-ND	3.91	3.50	2.87
	250	60	0.029	230	390	IRFB4332PBF-ND	3.54	3.17	2.60
TO-220AB Logic Level — RoHS Compliant									
1	20	61	0.013	240	89	IRL3102PBF-ND	2.11	1.91	1.54
	20	85	0.01	340	110	IRL3402PBF-ND	2.15	1.95	1.57
	20	110	0.007	420	140	IRL3502PBF-ND	2.84	2.54	2.09
	20	180	0.004	720	210	IRL3716PBF-ND	2.57	2.33	1.87
	30	24	0.04	96	45	IRL2703PBF-ND	1.25	1.11	.88
	30	38	0.026	140	68	IRL3303PBF-ND	1.68	1.49	1.18
	30	62	0.012	248	87	IRF3708PBF-ND	1.74	1.58	1.27
	30	62	0.0125	248	87	IRF3707PBF-ND	1.89	1.71	1.38
	30	64	0.014	220	110	IRL3103PBF-ND	1.70	1.51	1.19
	30	116	0.007	400	130	IRL2203NPBF-ND	2.07	1.87	1.51
	30	140	0.0055	470	200	IRL3803VPBF-ND	2.33	2.11	1.70
	30	150	0.0038	600	140	IRL7833PBF-ND	2.21	2.00	1.61
	30	260	0.003	1040	330	IRL3713PBF-ND	3.68	3.29	2.70
	40	130	0.0065	520	200	IRL1004PBF-ND	2.97	2.68	2.16
	40	160	0.004	640	200	IRL1404PBF-ND	3.35	2.99	2.46
	40	195	0.0017	1372	375	IRLB3034PBF-ND ***NEW!***	3.54	3.16	2.60

◆ ***RoHS Compliant***

(Continued)

International IOR Rectifier

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	55	89	0.01	310	130	IRL3705NPBF-ND	2.34	2.12	1.70
	55	104	0.008	360	200	IRL2505PBF-ND	2.82	2.55	2.05
	60	195	0.0024	1100	380	IRLB3036PBF-ND	3.60	3.22	2.64
	100	10	0.18	35	47	IRL520NPBF-ND	1.24	1.10	.87
	100	17	0.1	60	63	IRL530NPBF-ND	1.42	1.26	1.00
	100	36	0.044	120	94	IRL540NPBF-ND	1.74	1.58	1.27
	100	55	0.026	190	200	IRL2910PBF-ND	2.65	2.40	1.93
	100	180	0.0043	730	370	IRLB4030PBF-ND ***NEW!***	3.74	3.34	2.74
TO-220 FULLPAK — RoHS Compliant									
2	30	61	0.007	400	47	IRLI2203NPBF-ND	1.70	1.54	1.24
	30	76	0.006	470	63	IRLI3803PBF-ND	2.26	2.05	1.65
	55	14	0.07	68	26	IRFIZ24NPBF-ND	1.19	1.06	.84
	55	21	0.04	100	21	IRFIZ34NPBF-ND	1.27	1.13	.89
	55	22	0.035	110	37	IRLIZ34NPBF-ND	1.47	1.31	1.03
	55	30	0.022	160	45	IRLIZ44NPBF-ND	1.28	1.14	.90
	55	31	0.024	160	45	IRFIZ44NPBF-ND	1.40	1.25	.99
	55	52	0.01	310	58	IRLI3705NPBF-ND	1.85	1.68	1.35
	60	14	0.071	68	29	IRFIZ24EPBF-ND	1.46	1.29	1.02
	60	20	0.028	120	30	IRFIZ34VPBF-ND	1.98	1.29	.99
	60	21	0.042	100	37	IRFIZ34EPBF-ND	1.03	.92	.73
	60	39	0.012	290	43	IRFIZ48VPBF-ND	1.63	1.47	1.19
	100	8.1	0.18	35	27	IRLI520NPBF-ND	1.10	.98	.77
	100	12	0.1	60	33	IRLI530NPBF-ND	1.42	1.26	1.00
	100	12	0.11	60	33	IRFI530NPBF-ND	1.09	.97	.76
	100	20	0.044	120	42	IRLI540NPBF-ND	1.61	1.43	1.13
	100	24	0.036	140	45	IRFI1310NPBF-ND	1.72	1.56	1.26
	150	34	0.0122	130	46	IRFI4228PBF-ND	2.68	2.43	1.95
	150	34	0.0122	140	46	IRFI4321PBF-ND	2.95	2.67	2.15
TO-220 FULLPAK Logic Level — RoHS Compliant									
2	100	31	0.026	190	63	IRLI2910PBF-ND	1.90	1.72	1.39
TO-247AC — RoHS Compliant									
3	30	210	0.0028	1000	230	IRFP3703PBF-ND	3.91	3.49	2.86
	40	350	0.00170	1390	380	IRFP4004PBF-ND	6.26	5.59	4.59
	55	53	0.024	180	100	IRFP044NPBF-ND	1.80	1.63	1.31
	55	64	0.016	210	140	IRFP048NPBF-ND	1.95	1.76	1.42
	55	81	0.012	290	130	IRFP054NPBF-ND	2.58	2.34	1.88
	55	95	0.0053	640	310	IRFP1405PBF-ND	3.17	2.84	2.33
	55	110	0.008	390	150	IRFP064NPBF-ND	2.82	2.56	2.05
	60	120	0.0033	620	220	IRFP3306PBF-ND	2.70	2.44	1.96
	60	120	0.0024	840	280	IRFP3206PBF-ND	2.86	2.55	2.10
	75	90	0.0045	680	310	IRFP2907ZPBF-ND	3.22	2.88	2.36
	75	120	0.0028	850	340	IRFP3077PBF-ND	4.08	3.65	2.99
	75	195	0.00185	1280	520	IRFP4368PBF-ND	7.70	6.93	5.70
	100	33	0.052	110	94	IRFP140NPBF-ND	1.88	1.71	1.37
	100	42	0.036	140	140	IRFP150NPBF-ND	2.32	2.10	1.69
	100	57	0.025	180	200	IRFP3710PBF-ND	2.47	2.23	1.80
	100	72	0.014	300	190	IRFP4710PBF-ND	3.26	2.92	2.39
	100	97	0.0072	390	230	IRFP4410ZPBF-ND	2.80	2.51	2.06
	100	120	0.0048	560	280	IRFP4310ZPBF-ND	2.86	2.55	2.10
	100	120	0.0037	670	370	IRFP4110PBF-ND	3.96	3.54	2.91
	100	290	0.0026	1120	520	IRFP4468PBF-ND	7.70	6.93	5.70
	150	43	0.042	150	200	IRFP3415PBF-ND	2.82	2.56	2.05
	150	78	0.012	330	310	IRFP4228PBF-ND	3.45	3.09	2.53
	150	78	0.012	330	310	IRFP4321PBF-ND	3.17	2.84	2.33
	150	171	0.0059	684	517	IRFP4568PBF-ND	7.84	7.06	5.81
	200	30	0.075	120	214	IRFP250NPBF-ND	2.50	2.26	1.82
	200	50	0.04	200	300	IRFP260NPBF-ND	3.68	3.29	2.70
	200	94	0.023	380	580	IRFP90N20DPBF-ND	5.59	5.00	4.10
	200	130	0.0097	520	520	IRFP4668PBF-ND	7.99	7.19	5.92
	250	57	0.029	230	360	IRFP4332PBF-ND	4.00	3.58	2.93
	250	93	0.0175	370	520	IRFP4768PBF-ND ***NEW!***	8.95	8.06	6.63
TO-262									
4	20	36	0.02	140	47	IRL3714LPBF-ND◆	1.39	1.24	.98
	20	50	0.011	200	45	IRL3715ZLPBF-ND◆	1.44	1.28	1.01
	20	54	0.014	210	71	IRL3715LPBF-ND◆	1.56	1.39	1.10
	20	67	0.0079	260	57	IRF3704ZLPBF-ND◆	1.64	1.48	1.19
	20	92	0.006	380	79	IRF3711ZLPBF-ND◆	2.02	1.82	1.47
	24	195	0.00165	1420	300	IRF1324LPBF-ND◆ ***NEW!***	3.85	3.44	2.82
	30	59	0.0095	230	57	IRF3707ZCLPBF-ND◆	1.58	1.43	1.15
	30	59	0.0095	230	57	IRF3707ZLPBF-ND◆	1.72	1.52	1.21
	30	62	0.0125	248	87	IRF3707LPBF-ND◆	2.02	1.82	1.47
	30	75	0.0024	1020	231	IRF2903ZLPBF-ND◆	3.64	3.25	2.67
	30	87	0.0063	350	79	IRF3709ZLPBF-ND◆	2.02	1.82	1.47
	30	90	0.009	360	120	IRF3709LPBF-ND◆	1.73	1.54	1.22
	30	105	0.006	420	110	IRL8113LPBF-ND◆	2.19	1.99	1.60
	30	140	0.006	470	200	IRL3803LPBF-ND◆	3.07	2.75	2.25
	40	75	0.0037	710	200	IRF1404ZLPBF-ND◆	3.38	3.02	2.48
	40	104	0.008	416	167	IRL1104LPBF-ND◆	2.46	2.22	1.79
	40	130	0.0065	520	200	IRL1004LPBF-ND◆	2.98	2.67	2.19
4	40	160	0.004	640	3.8	IRL1404LPBF-ND◆	3.72	3.32	2.73
	40	162	0.004	650	200	IRF1404LPBF-ND◆	3.54	3.17	2.60
	40	170	0.0036	850	200	IRF2204LPBF-ND◆	3.02	2.70	2.22
	40	195	0.00175	1310	380	IRFSL3004PBF-ND◆ ***NEW!***	3.96	3.54	2.91
	55	29	0.04	100	68	IRFZ34NLPBF-ND◆	1.55	1.40	1.13
	55	47	0.022	160	110	IRLZ44NLPBF-ND◆	1.91	1.73	1.39
	55	49	0.022	160	110	IRFZ44NLPBF-ND◆	1.75	1.55	1.23
	55	61	0.011	240	91	IRFZ48ZLPBF-ND◆	1.73	1.57	1.26
	55	75	0.008	340	130	IRL3705ZLPBF-ND◆	2.47	2.24	1.80
	55	75	0.075	360	140	IRF1010ZLPBF-ND◆	2.17	1.96	1.58
	55	75	0.005	600	230	IRF1405ZLPBF-ND◆	3.12	2.79	2.29
	55	104	0.008	360	200	IRL2505LPBF-ND◆	2.84	2.57	2.07
	55	110	0.008	390	200	IRF3205LPBF-ND◆	2.29	2.08	1.67
	55	131	0.0053	680	200	IRF1405LPBF-ND◆	2.80	2.50	2.05
	55	135	0.0047	700	200	IRF2805LPBF-ND◆	3.08	2.75	2.26
	60	17	0.06	68	44	IRFZ24VLPBF-ND◆	1.44	1.28	1.01
	60	30	0.028	120	70	IRFZ34VLPBF-ND◆	1.60	1.42	1.12
	60	43	0.0126	170	71	IRFSL3806PBF-ND◆	1.29	1.15	.91
	60	48	0.023	192	110	IRFZ44ELPBF-ND◆	1.77	1.60	1.29
	60	75	0.0085	340	140	IRF1010EZLPBF-ND◆	2.17	1.96	1.58
	60	79	0.0071	315	110	IRF1018ESLPBF-ND◆	1.86	1.68	1.35
	60	84	0.012	330	170	IRF1010EL-ND	3.87	3.46	2.84
	60	84	0.012	330	170	IRF1010ELPBF-ND◆	2.44	1.59	1.22
	60	120	0.003	840	300	IRFSL3206PBF-ND◆	3.49	3.12	2.56
	60	195	0.0025	1080	375	IRFSL3006PBF-ND◆ ***NEW!***	4.77	4.27	3.50
	75	62	0.0126	320	120	IRF3007LPBF-ND◆	2.14	1.94	1.56
	75	75	0.009	350	170	IRF2807ZLPBF-ND◆	2.41	2.18	1.75
	75	80	0.00734	310	140	IRFSL3607PBF-ND◆	1.62	1.46	1.18
	75	97	0.0088	390	190	IRFSL3507PBF-ND◆	2.97	2.69	2.16
	75	100	0.0078	520	200	IRF1407LPBF-ND◆	3.20	2.86	2.35
	75	120	0.0033	670	300	IRFSL3207ZPBF-ND◆	4.79	4.28	3.51
	75	195	0.0030	900	370	IRFSL3107PBF-ND◆ ***NEW!***	4.68	4.18	3.43
	100	9.6	0.165	37	44	IRF520VLPBF-ND◆	1.60	1.42	1.12
	100	10	0.18	35	48	IRL520NLPBF-ND◆	1.41	1.25	.99
	100	36	0.044	120	140	IRL540NLPBF-ND◆	2.18	1.97	1.59
	100	36	0.0265	140	92	IRF540ZLPBF-ND◆	1.86	1.68	1.35
	100	55	0.026	190	200	IRL2910LPBF-ND◆	2.73	2.47	1.98
	100	57	0.025	180	200	IRF3710LPBF-ND◆	2.17	1.96	1.58
	100	59	0.025	236	200	IRFSL59N10DPBF-ND◆	3.00	2.72	2.19
	100	59	0.018	240	160	IRF3710ZLPBF-ND◆	2.82	2.55	2.05
	100	73	0.014	290	190	IRFSL4610PBF-ND◆	3.48	3.11	2.55
	100	75	0.014	300	200	IRFSL4710PBF-ND◆	3.46	2.31	1.85
	100	88	0.008	380	200	IRFSL4410PBF-ND◆	3.22	2.88	2.36
	100	97	0.0072	390	230	IRFSL4410ZPBF-ND◆	3.83	3.43	2.81
	100	120	0.0048	560	250	IRFSL4310ZPBF-ND◆	4.86	4.34	3.56
	100	180	0.0047	720	375	IRFSL4010PBF-ND◆ ***NEW!***	4.97	4.44	3.64
	150	33	0.042	140	144	IRFSL4615PBF-ND◆ ***NEW!***	1.76	1.59	1.28
	150	33	0.042	140	144	IRFSL5615PBF-ND◆ ***NEW!***	1.76	1.59	1.28
	150	43	0.042	150	200	IRF3415LPBF-ND◆	2.67	2.41	1.94
	150	83	0.012	330	330	IRFSL4228PBF-ND◆	5.26	4.70	3.86
	150	83	0.015	330	330	IRFSL4321PBF-ND◆	4.08	3.64	2.99
	150	195	0.0121	396	375	IRFSL4115PBF-ND◆ ***NEW!***	4.40	3.93	3.22
	200	9.3	0.30	37	82	IRF630NLPBF-ND◆	1.64	1.49	1.20
	200	18	0.105	52	100	IRFSL4020PBF-ND◆ ***NEW!***	1.86	1.68	1.35
	200	18	0.15	72	150	IRF640NLPBF-ND◆	1.96	1.77	1.42
	200	24	0.1	96	170	IRFSL23N20DPBF-ND◆	2.53	2.29	1.84
	200	24	0.0775	100	144	IRFSL4620PBF-ND◆	1.73	1.56	1.26
	200	24	0.0775	100	144	IRFSL5620PBF-ND◆	1.73	1.56	1.26
	200	31	0.082	124	200	IRFSL31N20DPBF-ND◆	3.08	2.79	2.24
	200	62	0.22	260	330	IRFSL4227PBF-ND◆	4.57	4.09	3.35
	200	72	0.022	300	375	IRFSL4127PBF-ND◆ ***NEW!***	4.59	4.11	3.37
TO-262 Logic Level — RoHS Compliant									
4	20	180	.004	720	210	IRL3716LPBF-ND	2.80	2.54	2.04
	30	38	0.026	140	68	IRL3303LPBF-ND	1.74	1.55	1.22
	30	64	0.014	220	110	IRL3103LPBF-ND	1.60	1.45	1.17
	30	150	.0038	600	140	IRL7833LPBF-ND	2.63	2.38	1.92
	40	195	0.0017	1372	375	IRLSL3034PBF-ND ***NEW!***	4.77	4.26	3.50
	60	195	0.0024	1100	380	IRLSL3036PBF-ND	4.52	4.04	3.32
	100	180	0.0043	730	370	IRLSL4030PBF-ND ***NEW!***	5.03	4.50	3.69
I-Pak									
5	20	54	0.014	210	71	IRLU3715PBF-ND◆	.89	.80	.63
	20	60	0.0084	240	48	IRFU3704ZPBF-ND◆	1.33	1.18	.94
	20	75	0.0095	300	90	IRFU3704PBF-ND◆	1.17	1.04	.83
	20	93	0.0057	370	79	IRFU3711ZPBF-ND◆	1.59	1.41	1.11
	20	100	0.0065	440	2.5	IRFU3711PBF-ND◆	1.47	1.30	1.03
	30	33	0.031	120	57	IRFU3303PBF-ND◆	1.04	.92	.73
	30	61	0.013	244	87	IRFU3707PBF-ND◆	1.09	.97	.77
	30	65	0.0084	260	65	IRLU8721PBF-ND◆	1.00	.88	.68
	30	160	0.0031	640	135	IRLU8743PBF-ND◆	1.36	1.21	.96
	40	30	0.0092	350	140	IRFU3504PBF-ND◆	1.64	1.46	1.15
	40	42	0.009	310	90	IRFU3504ZPBF-ND◆	1.71	1.52	1.20

◆ ***RoHS Compliant***

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
5	40	42	0.0055	480	140	IRFU4104PBF-ND◆	2.38	2.15	1.73
	40	42	0.0049	500	140	IRLU3114ZPBF-ND◆	1.72	1.56	1.25
	55	27	0.045	100	68	IRFU4105PBF-ND◆	1.03	.92	.73
	55	30	0.025	120	48	IRFU4105ZPBF-ND◆	1.29	1.15	.91
	55	42	0.0135	240	110	IRLU2905ZPBF-ND◆	1.62	1.44	1.14
	55	56	0.016	220	110	IRFU2405PBF-ND◆	1.38	1.22	.97
	60	43	0.0126	170	71	IRFU3806PBF-ND◆	1.09	.97	.76
	60	56	0.0071	315	110	IRFU1018EPBF-ND◆	1.44	1.28	1.01
	75	42	0.026	170	110	IRFU2407PBF-ND◆	1.40	1.24	.98
	75	42	0.022	180	110	IRFU2607ZPBF-ND◆	1.73	1.53	1.21
	75	42	0.016	210	110	IRFU2307ZPBF-ND◆	1.62	1.46	1.18
	75	56	0.00734	310	140	IRFU3607PBF-ND◆	1.45	1.29	1.02
	80	38	0.029	150	110	IRFU3518PBF-ND◆	1.25	1.11	.88
	100	8.7	0.190	35	35	IRFU120ZPBF-ND◆	.98	.87	.69
	100	9.4	0.2	38	48	IRFU120N-ND	1.91	1.25	.96
	100	9.4	0.2	38	48	IRFU120NPBF-ND◆	.92	.81	.63
	100	16	0.115	60	79	IRFU3910PBF-ND◆	.95	.84	.67
	100	31	0.039	125	110	IRFU3410PBF-ND◆	1.92	1.74	1.40
	100	32	0.044	110	130	IRFU3411PBF-ND◆	1.28	1.14	.90
	100	42	0.018	220	140	IRFU3710ZPBF-ND◆	2.46	2.23	1.79
	150	33	0.042	140	144	IRFU4615PBF-ND◆	1.72	1.53	1.21
	200	5	0.6	20	43	IRFU220NPBF-ND◆	.85	.75	.58
	200	9.4	0.38	38	86	IRFU9N20DPBF-ND◆	1.08	.96	.76
5	200	13	0.235	52	110	IRFU13N20DPBF-ND◆	1.48	1.31	1.04
	200	24	0.078	100	144	IRFU4620PBF-ND◆	1.72	1.53	1.21
I-Pak Logic level — RoHS Compliant									
5	20	37	0.015	144	35	IRLU3714ZPBF-ND	1.12	1.00	.79
	20	120	0.004	460	89	IRLU3717PBF-ND	1.71	1.54	1.24
	30	23	0.045	96	45	IRLU2703PBF-ND	1.35	1.20	.95
	30	35	0.031	140	68	IRLU3303PBF-ND	1.03	.91	.72
	30	43	0.0138	170	40	IRLU7807ZPBF-ND	1.16	1.03	.82
	30	94	0.0066	380	89	IRLU8113PBF-ND	1.25	1.11	.88
	30	110	0.0068	120	140	IRLU8203PBF-ND	1.47	1.31	1.04
	55	17	0.065	72	45	IRLU024NPBF-ND	.82	.72	.56
	55	28	0.04	110	68	IRLU2705PBF-ND	1.22	1.09	.86
	60	50	0.0068	396	143	IRLU3636PBF-ND ***NEW!***	1.73	1.54	1.22
	80	30	0.028	150	120	IRLU2908PBF-ND	1.32	1.17	.93
	100	10	0.185	35	48	IRLU120NPBF-ND	.91	.80	.62
	100	17	0.105	60	79	IRLU3410PBF-ND	.90	.80	.63
Super-220 — RoHS Compliant									
6	55	174	0.005	680	330	IRFBA1405PPBF-ND	5.31	4.75	3.90
	200	98	0.023	390	650	IRFBA90N20DPBF-ND	8.97	8.08	6.64
Super-247 — RoHS Compliant									
7	100	170	0.009	670	580	IRFPS3810PBF-ND	9.81	8.83	7.26

◆ ***RoHS Compliant***

N and P Channel Surface Mount HEXFETs

DigiReel®

Multiple pin out configurations available see Digi-Key web site for data sheets.

Fig. 1 — D²Pak

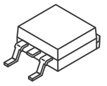

Fig. 2 — DPak

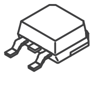

Fig. 3 — Micro-3™ SOT-23

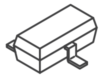

Fig. 4 — Micro-6™ TSOP-6

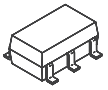

Fig. 5 — Micro-8™

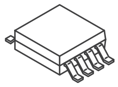

Fig. 6 — SO-8 / SOIC-8

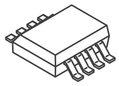

Fig. 7 — TSSOP-8

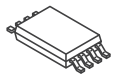

Fig. 8 — PQFN

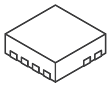

Fig. 9 — D²Pak-7

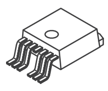

Fig. 10 — SOT-223

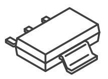

Fig. 11 — DirectFET™

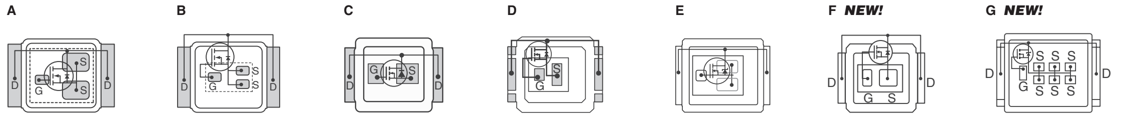

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
P-CHANNEL TYPES									
D²Pak									
1	-55	-19	0.10	-68	3.8	IRF9Z34NSTRL-ND‡		875.16/800	
	-55	-19	0.10	-68	3.8	IRF9Z34NSTRLPBFCT-ND†◆	1.81	1.63	1.29
	-55	-19	0.10	-68	3.8	IRF9Z34NSTRLPBFTR-ND‡◆		633.60/800	
	-55	-31	0.06	-110	3.8	IRF5305STRLPBFCT-ND†◆	2.00	1.72	1.40
	-55	-31	0.06	-110	3.8	IRF5305STRLPBFTR-ND‡◆		719.20/800	
	-150	-27	0.150	-110	250	IRF6218STRLPBFCT-ND†◆	2.89	2.48	2.03
	-150	-27	0.150	-110	250	IRF6218STRLPBFTR-ND‡◆		1039.20/800	
DPak (TO-252AA) — RoHS Compliant									
2	-55	-11	0.175	-44	38	IRFR9024NPBFCT-ND†	.98	.85	.67
	-55	-11	0.175	-44	38	IRFR9024NPBFTR-ND‡		646.00/2,000	
	-55	-18	0.11	-64	57	IRFR5505GTRPBFCT-ND† ***NEW!***	1.02	.89	.70
	-55	-18	0.11	-64	57	IRFR5505GTRPBFTR-ND‡ ***NEW!***		672.00/2,000	
	-55	-18	0.11	-64	57	IRFR5505PBFCT-ND†	.97	.84	.67
	-55	-18	0.11	-64	57	IRFR5505PBFTR-ND‡		640.00/2,000	
	-55	-31	0.065	-110	110	IRFR5305PBFCT-ND†	1.30	1.16	.93
	-55	-31	0.065	-110	110	IRFR5305PBFTR-ND‡		954.00/2,000	
	-100	-6.6	0.48	-26	40	IRFR9120NPBFCT-ND†	1.03	.89	.70
	-100	-6.6	0.48	-26	40	IRFR9120NPBFTR-ND‡		676.00/2,000	
	-100	-13	0.205	-52	66	IRFR5410PBFCT-ND†	1.28	1.15	.91
	-100	-13	0.205	-52	66	IRFR5410PBFTR-ND‡		944.00/2,000	
Micro-3™ (SOT-23) Logic Level — RoHS Compliant									
3	-12	-4.3	0.05	-34	1.3	IRLML6401PBFCT-ND†	.55	.44	.30
	-12	-4.3	0.05	-34	1.3	IRLML6401PBFTR-ND‡		375.00/3,000	
	-20	-0.78	0.6	-4.9	0.54	IRLML6302PBFCT-ND†	.63	.45	.30
3	-20	-0.78	0.6	-4.9	0.54	IRLML6302PBFTR-ND‡		318.00/3,000	
	-20	-3.7	0.065	-22	1.3	IRLML6402PBFCT-ND†	.61	.48	.33
	-20	-3.7	0.065	-22	1.3	IRLML6402PBFTR-ND‡		417.00/3,000	
	-30	-0.76	0.6	-4.8	0.54	IRLML5103PBFCT-ND†	.63	.45	.30
	-30	-0.76	0.6	-4.8	0.54	IRLML5103PBFTR-ND‡		318.00/3,000	
Micro-6™ (TSOP-6) Logic Level — RoHS Compliant									
4	-20	-2.4	0.2	-13	1.7	IRLMS6702PBFCT-ND†	.59	.48	.36
	-20	-2.4	0.2	-13	1.7	IRLMS6702PBFTR-ND‡		498.00/3,000	
	-20	-5.6	0.05	-45	2	IRLMS6802PBFCT-ND†	.68	.55	.41
	-20	-5.6	0.05	-45	2	IRLMS6802PBFTR-ND‡		573.00/3,000	
	-30	-2.4	0.2	-13	1.7	IRLMS5703PBFCT-ND†	.58	.47	.35
	-30	-2.4	0.2	-13	1.7	IRLMS5703PBFTR-ND‡		492.00/3,000	
Micro-8™ (SOIC-8) — RoHS Compliant									
5	-30	-7.0	0.040	-28	1.79	IRF7726TRPBFCT-ND†	.83	.72	.57
	-30	-7.0	0.040	-28	1.79	IRF7726TRPBFTR-ND‡		1096.00/4,000	
Micro-8™ Logic Level									
5	-20	-8.2	0.040	-66	1.8	IRF7663TRPBFCT-ND†◆	.85	.74	.59
	-20	-8.2	0.040	-66	1.8	IRF7663TRPBFTR-ND‡◆		1124.00/4,000	
	-30	-3.6	0.15	-29	1.8	IRF7606CT-ND†	1.25	1.13	.89
	-30	-3.6	0.15	-29	1.8	IRF7606TR-ND‡		1845.60/4,000	
	-30	-3.6	0.15	-29	1.8	IRF7606TRPBFCT-ND†◆	.78	.62	.47
	-30	-3.6	0.15	-29	1.8	IRF7606TRPBFTR-ND‡◆		876.00/4,000	

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5	-20	-4.3	0.105	-34	1.25	IRF7555TRPBFCT-ND†◆	.77	.67	.53
	-20	-4.3	0.105	-34	1.25	IRF7555TRPBFTR-ND‡◆		1016.00/4,000	
	-30	-1.7	0.27	-9.6	1.25	IRF7506CT-ND†	2.38	2.04	1.67
	-30	-1.7	0.27	-9.6	1.25	IRF7506TR-ND‡		19343.28/4,000	
SO-8 / SOIC-8 — RoHS Compliant									
6	-12	±9.5	0.020	±76	2.5	IRF7233PBFCT-ND†	.94	.81	.64
	-20	-5.4	0.06	-43	2.5	IRF7207PBFCT-ND†	.88	.76	.60
	-30	-20	0.0046	-160	2.5	IRF9310TRPBFCT-ND† ***NEW!***	1.64	1.47	1.17
	-30	-20	0.0046	-160	2.5	IRF9310TRPBFTR-ND‡ ***NEW!***		2420.00/4,000	
	-40	-6.2	0.041	-25	2.5	IRF7241PBFCT-ND†	1.12	1.01	.80
	-40	-6.2	0.041	-25	2.5	IRF7241PBFTR-ND‡		1656.00/4,000	
SO-8 / SOIC-8 Logic Level — RoHS Compliant									
6	-20	-6.7	0.04	-27	2.5	IRF7404PBFCT-ND†	.91	.79	.63
	-20	-6.7	0.04	-27	2.5	IRF7404PBFTR-ND‡		1200.00/4,000	
	-20	-6.7	0.040	-27	2.5	IRF7404QTRPBFCT-ND†	1.50	.93	.68
	-30	-4.6	0.07	-15	2.5	IRF7205PBFCT-ND†	.71	.62	.49
	-30	-4.6	0.07	-15	2.5	IRF7205PBFTR-ND‡		940.00/4,000	
	-30	-5.8	0.045	-23	2.5	IRF7406PBFCT-ND†	1.02	.92	.73
	-30	-5.8	0.045	-23	2.5	IRF7406PBFTR-ND‡		1500.00/4,000	
	-30	-8	0.02	-50	2.5	SI4435DYPBFCT-ND†	1.10	.95	.75
	-30	-8	0.02	-50	2.5	SI4435DYPBFTR-ND‡		1444.00/4,000	
	-30	-10	0.035	-45	2.5	IRF7416TRPBFCT-ND†	1.24	1.11	.88
	-30	-10	0.035	-45	2.5	IRF7416TRPBFTR-ND‡		1820.00/4,000	
	-30	-10	0.035	-45	2.5	IRF7416PBF-ND	1.14	1.01	.80
SO-8 / SOIC-8 Dual Logic Level									
6	-12	-7.8	0.024	-39	2.0	IRF7325PBFCT-ND†◆	1.86	1.67	1.33
	-12	-7.8	0.024	-39	2.0	IRF7325PBFTR-ND‡◆		2744.00/4,000	
	-12	-9.2	0.017	-37	2.0	IRF7329PBFCT-ND†◆	1.32	1.18	.94
	-12	-9.2	0.017	-37	2.0	IRF7329PBFTR-ND‡◆		1944.00/4,000	
	-20	-2.3	0.25	-10	2.0	IRF7104PBFCT-ND†◆	.88	.76	.60
	-20	-2.3	0.25	-10	2.0	IRF7104PBFTR-ND‡◆		1156.00/4,000	
	-20	-4.3	0.09	-17	2.0	IRF7304-ND	1.84	1.20	.92
	-20	-4.3	0.09	-17	2.0	IRF7304PBFCT-ND†◆	.99	.89	.71
	-20	-4.3	0.09	-17	2.0	IRF7304PBFTR-ND‡◆		1456.00/4,000	
	-20	-4.7	0.090	-17	2.0	IRF7304QTRPBFCT-ND†◆	1.42	.88	.64
	-20	-4.7	0.090	-17	2.0	IRF7304QTRPBFTR-ND‡◆		1844.64/4,000	
	-20	-5.2	0.058	-43	2.4	IRF7314QTRPBFCT-ND†◆	1.71	1.06	.78
	-20	-5.3	0.058	-21	2.0	IRF7314-ND	2.36	1.53	1.18
	-20	-5.3	0.058	-21	2.0	IRF7314PBFCT-ND†◆	.97	.87	.70
	-20	-5.3	0.058	-21	2.0	IRF7314PBFTR-ND‡◆		1432.00/4,000	
	-20	-9	0.018	-71	2.0	IRF7324PBFCT-ND†◆	1.83	1.64	1.30
	-20	-9	0.018	-71	2.0	IRF7324PBFTR-ND‡◆		2692.00/4,000	
	-30	-2.3	0.25	-10	2.0	IRF9953PBFCT-ND†◆	.88	.77	.61
	-30	-2.3	0.25	-10	2.0	IRF9953PBFTR-ND‡◆		1164.00/4,000	
	-30	-3.6	0.1	-14	2.0	IRF7306PBFCT-ND†◆	1.01	.91	.73
	-30	-3.6	0.1	-14	2.0	IRF7306TR-ND‡		3275.50/4,000	
	-30	-3.6	0.1	-14	2.0	IRF7306PBFTR-ND‡◆		1496.00/4,000	
	-30	-4.0	0.10	-14	2.0	IRF7306QTRPBFCT-ND†◆	1.47	.91	.67
	-30	-4.0	0.10	-14	2.0	IRF7306QTRPBFTR-ND‡◆		1914.91/4,000	
	-30	-4.9	0.058	-30	2.0	IRF7316PBFCT-ND†◆	1.17	1.05	.84
	-30	-4.9	0.058	-30	2.0	IRF7316PBFTR-ND‡◆		1724.00/4,000	
	-30	-4.9	0.058	-30	2.0	IRF7316QTRPBFCT-ND†◆	1.71	1.06	.78
	-30	-8.0	0.021	-32	2.0	IRF7328PBFCT-ND†◆	2.46	2.12	1.73
	-30	-8.0	0.021	-32	2.0	IRF7328PBFTR-ND‡		3800.00/4,000	
	-55	-3.4	0.105	-27	2.0	IRF7342PBFCT-ND†◆	1.25	1.12	.89
	-55	-3.4	0.105	-27	2.0	IRF7342PBFTR-ND‡◆		1836.00/4,000	
	-55	-3.4	0.105	-27	2.0	IRF7342QTRPBFCT-ND†◆	1.64	1.02	.75
SO-8 / SOIC-8 "Fetky™" Mosfet and Schottky Diode — RoHS Compliant									
6	-20	-2.2	0.18	-23	2.0	IRF7324D1PBFCT-ND†	.82	.72	.57
	-20	-2.2	0.18	-23	2.0	IRF7324D1PBFTR-ND‡		1084.00/4,000	
	-20	-5.3	0.058	-43	2.0	IRF7322D1PBFCT-ND†	.97	.84	.67
	-20	-5.3	0.058	-43	2.0	IRF7322D1PBFTR-ND‡		1424.00/4,000	
SO-8 / SOIC-8 "Fetky™" Mosfet and Schottky Diode Logic Level									
6	-20	-4.3	0.09	-18	2.0	IRF7422D2-ND	1.55	.96	.71
	-20	-4.3	0.09	-18	2.0	IRF7422D2PBFCT-ND†◆	1.21	1.09	.86
	-20	-4.3	0.09	-18	2.0	IRF7422D2PBFTR-ND‡◆		1780.00/4,000	
	-30	-3.6	0.16	-29	2.0	IRF7326D2TRPBFCT-ND†◆	.97	.84	.66
	-30	-3.6	0.16	-29	2.0	IRF7326D2TRPBFTR-ND‡◆		1416.00/4,000	
TSSOP-8 — RoHS Compliant									
7	-12	±8.0	0.014	±70	1.5	IRF7702TRPBFCT-ND†	1.68	1.51	1.20
	-12	±8.0	0.014	±70	1.5	IRF7702TRPBFTR-ND‡		2480.00/4,000	
	-12	-10	0.011	-80	1.5	IRF7701GTRPBFCT-ND†	1.93	1.66	1.35
	-12	-10	0.011	-80	1.5	IRF7701GTRPBFTR-ND‡		2976.00/4,000	
	-20	-8.6	0.015	-68	1.5	IRF7700GTRPBFCT-ND†	1.96	1.68	1.37
	-20	-8.6	0.015	-68	1.5	IRF7700GTRPBFTR-ND‡		3020.00/4,000	
	-40	-6.0	0.028	-24	1.5	IRF7703TRPBFCT-ND†	2.26	1.94	1.59
	-40	-6.0	0.028	-24	1.5	IRF7703TRPBFTR-ND‡		3484.00/4,000	
TSSOP-8 Dual — RoHS Compliant									
7	-12	±4.3	0.040	-17	1.0	IRF7756TRPBFCT-ND†	1.38	1.24	.98
	-12	±4.3	0.040	-17	1.0	IRF7756TRPBFTR-ND‡		2028.00/4,000	
	-12	±5.5	0.025	±22	1.0	IRF7754GTRPBFCT-ND†	2.02	1.74	1.42
	-12	±5.5	0.025	±22	1.0	IRF7754GTRPBFTR-ND‡		3120.00/4,000	
	-20	±3.9	0.051	±15	1.0	IRF7755GTRPBFCT-ND†	1.43	1.28	1.02
	-20	±3.9	0.051	±15	1.0	IRF7755GTRPBFTR-ND‡		2100.00/4,000	
	-20	±4.7	0.030	±38	1.0	IRF7750TRPBFCT-ND†	1.65	1.48	1.18
	-20	±4.7	0.030	±38	1.0	IRF7750TRPBFTR-ND‡		2436.00/4,000	
	-30	-4.5	0.035	-18	1.0	IRF7751TRPBFCT-ND†	1.57	1.41	1.12
	-30	-4.5	0.035	-18	1.0	IRF7751TRPBFTR-ND‡		2312.00/4,000	
N-CHANNEL TYPES									
D2Pak									
1	20	77	0.0135	308	87	IRF3704S-ND	2.94	1.91	1.46
	20	110	0.0085	440	3.1	IRF3711STRLPBFCT-ND†◆	2.36	2.02	1.65
	24	195	0.00165	1420	300	IRF1324STRLPBFCT-ND†◆ ***NEW!***	4.13	3.72	3.03
	24	195	0.00165	1420	300	IRF1324STRLPBFTR-ND‡◆ ***NEW!***		1650.40/800	
	30	116	0.010	400	3.8	IRL2203NSTRLPBFCT-ND†◆	2.63	2.26	1.85
	30	116	0.010	400	3.8	IRL2203NSTRLPBFTR-ND‡◆		947.20/800	
	40	75	0.0055	470	140	IRF4104SPBF-ND◆	2.75	2.49	2.00
	40	75	0.0031	790	200	IRL1404ZSTRLPBFCT-ND†◆	3.65	3.29	2.68
	40	75	0.0031	790	200	IRL1404ZSTRLPBFTR-ND‡◆		5174.40/3,200	
	40	162	0.004	650	3.8	IRF1404STRLPBFCT-ND†◆	3.62	3.26	2.66
	40	162	0.004	650	3.8	IRF1404STRLPBFTR-ND‡◆		1447.20/800	
	40	170	0.0036	850	200	IRF2204SPBF-ND◆	3.02	2.70	2.22
	40	195	0.00175	1310	380	IRFS3004TRLPBFCT-ND†◆ ***NEW!***	4.25	3.83	3.12
	40	195	0.00175	1310	380	IRFS3004TRLPBFTR-ND‡◆ ***NEW!***		1698.40/800	
	55	29	0.04	100	68	IRFZ34NSTRL-ND‡		962.06/800	
	55	49	0.0175	160	3.8	IRFZ44NSTRLPBFCT-ND†◆	1.92	1.65	1.35
	55	49	0.0175	160	3.8	IRFZ44NSTRLPBFTR-ND‡◆		690.40/800	
	55	51	0.0139	200	80	IRFZ44ZSPBF-ND◆	1.68	1.52	1.22
	55	53	0.0165	180	3.8	IRFZ46NSTRLPBFCT-ND†◆	1.99	1.71	1.40
	55	53	0.0165	180	3.8	IRFZ46NSTRLPBFTR-ND‡◆		716.00/800	
	55	61	0.011	240	91	IRFZ48ZSPBF-ND◆	2.10	1.90	1.53
	55	64	0.014	210	3.8	IRFZ48NSTRLPBFCT-ND†◆	2.17	1.86	1.52
	55	64	0.014	210	3.8	IRFZ48NSTRLPBFTR-ND‡◆		781.60/800	
	55	75	0.0033	890	330	IRF3805STRLPBFCT-ND†◆	3.60	3.24	2.64
	55	75	0.0033	890	330	IRF3805STRLPBFTR-ND‡◆		1440.00/800	
	55	85	0.011	290	180	IRF1010NSTRLPBFCT-ND†◆	2.45	2.10	1.72
	55	85	0.011	290	180	IRF1010NSTRLPBFTR-ND‡◆		882.40/800	
	55	110	0.008	390	200	IRF3205STRLPBFCT-ND†◆	2.91	2.50	2.04
	55	110	0.008	390	200	IRF3205STRLPBFTR-ND‡◆		1047.20/800	
	55	131	0.0053	680	200	IRF1405STRLPBFCT-ND†◆	3.48	3.14	2.56
	55	131	0.0053	680	200	IRF1405STRLPBFTR-ND‡◆		1393.60/800	
	60	30	0.028	120	70	IRFZ34VSPBF-ND◆	1.60	1.42	1.12
	60	43	0.0158	170	71	IRFS3806TRLPBFCT-ND†◆	1.40	1.26	1.00
	60	43	0.0158	170	71	IRFS3806TRLPBFTR-ND‡◆		488.80/800	
	60	75	0.0085	340	140	IRF1010EZSPBF-ND◆	2.17	1.96	1.58
	60	75	0.0085	340	140	IRF1010EZSTRLPCT-ND†◆	2.45	2.10	1.72
	60	75	0.0085	340	140	IRF1010EZSTRLPTR-ND‡◆		882.40/800	
	60	79	0.0084	315	110	IRF1018ESTRLPBFCT-ND†◆	2.45	2.10	1.72
	60	79	0.0084	315	110	IRF1018ESTRLPBFTR-ND‡◆		756.00/800	
	60	84	0.012	330	200	IRF1010ESTRLPBFCT-ND†◆	2.47	2.12	1.73
	60	84	0.012	330	200	IRF1010ESTRLPBFTR-ND‡◆		889.60/800	
	60	120	0.0030	840	300	IRFS3206PBF-ND◆	3.70	3.31	2.72
	60	120	0.0030	840	300	IRFS3206TRRPBFCT-ND†◆	3.97	3.58	2.92
	60	120	0.0030	840	300	IRFS3206TRRPBFTR-ND‡◆		1588.00/800	
	60	120	0.0042	620	230	IRFS3306PBF-ND◆	3.70	3.31	2.72
	60	120	0.0042	620	230	IRFS3306TRLPBFCT-ND†◆	3.97	3.58	2.92
	60	120	0.0042	620	230	IRFS3306TRLPBFTR-ND‡◆		1588.00/800	
	60	195	0.0025	1080	375	IRFS3006PBF-ND◆	4.77	4.27	3.50
	60	195	0.0025	1080	375	IRFS3006TRLPBFCT-ND†◆ ***NEW!***	5.12	4.61	3.76
	60	195	0.0025	1080	375	IRFS3006TRLPBFTR-ND‡◆ ***NEW!***		2046.40/800	
	75	62	0.0126	320	120	IRF3007SPBF-ND◆	2.14	1.94	1.56
	75	80	0.0090	310	140	IRFS3607TRLPBFCT-ND†◆	1.82	1.57	1.28
	75	80	0.0090	310	140	IRFS3607TRLPBFTR-ND‡◆		656.80/800	
	75	82	0.013	280	230	IRF2807STRLPBFCT-ND†◆	3.07	2.64	2.16
	75	82	0.013	280	230	IRF2807STRLPBFTR-ND‡◆		1106.40/800	
	75	120	0.0058	480	230	IRFS3307ZPBF-ND◆	2.88	2.58	2.11
	75	120	0.0041	670	300	IRFS3207ZPBF-ND◆	3.70	3.31	2.72
	75	170	0.0045	720	300	IRFS3207TRLPBFCT-ND†◆	4.76	4.28	3.49
	75	170	0.0045	720	300	IRFS3207TRLPBFTR-ND‡◆		1902.40/800	
	75	180	0.0045	720	330	IRFS3207-ND	6.71	4.91	4.07
	75	195	0.0030	900	370	IRFS3107PBF-ND◆	4.68	4.18	3.43

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

International
IOR Rectifier

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
1	75	195	0.0030	900	370	IRFS3107TRLPBFCT-ND†◆ ***NEW!***	5.02	4.52	3.68
	75	195	0.0030	900	370	IRFS3107TRLPBFTR-ND‡◆ ***NEW!***		2006.40/800	
	100	17	0.090	60	3.8	IRF530NSTRLPBFCT-ND†◆	1.88	1.69	1.34
	100	17	0.090	60	3.8	IRF530NSTRLPBFTR-ND‡◆		658.40/800	
	100	33	0.044	110	130	IRF540NSTRLPBFCT-ND†◆	2.09	1.80	1.47
	100	33	0.044	110	130	IRF540NSTRLPBFTR-ND‡◆		752.00/800	
	100	42	0.036	140	3.8	IRF1310NSTRLPBFCT-ND†◆	2.57	2.21	1.80
	100	42	0.036	140	3.8	IRF1310NSTRLPBFTR-ND‡◆		924.80/800	
	100	57	0.023	180	200	IRF3710STRLPBFCT-ND†◆	2.96	2.54	2.08
	100	57	0.023	180	200	IRF3710STRLPBFTR-ND‡◆		1064.80/800	
	100	80	0.015	320	260	IRF8010SPBF-ND◆	2.76	2.49	2.01
	100	97	.0072	390	230	IRFS4410ZPBF-ND◆	3.45	3.08	2.53
	100	120	0.0060	560	250	IRFS4310ZTRLPBFCT-ND†◆	4.20	3.78	3.08
	100	120	0.0060	560	250	IRFS4310ZTRLPBFTR-ND‡◆		1680.00/800	
	100	180	0.0047	720	375	IRFS4010PBF-ND◆	5.41	4.83	3.96
	100	180	0.0047	720	375	IRFS4010TRLPBFCT-ND†◆ ***NEW!***	5.79	5.22	4.25
	100	180	0.0047	720	375	IRFS4010TRLPBFTR-ND‡◆ ***NEW!***		2317.60/800	
	150	33	0.042	140	144	IRFS4615TRLPBFCT-ND†◆ ***NEW!***	1.99	1.71	1.40
	150	33	0.042	140	144	IRFS4615TRLPBFTR-ND‡◆ ***NEW!***		716.80/800	
	150	33	0.042	140	144	IRFS5615TRLPBFCT-ND†◆ ***NEW!***	1.99	1.71	1.40
	150	33	0.042	140	144	IRFS5615TRLPBFTR-ND‡◆ ***NEW!***		716.80/800	
	150	41	0.045	164	200	IRF3515STRLPBFCT-ND†◆	3.30	2.97	2.42
	150	43	0.042	150	3.8	IRF3415STRLPBFCT-ND†◆	3.06	2.76	2.25
	150	43	0.042	150	3.8	IRF3415STRLPBFTR-ND‡◆		1224.00/800	
	150	51	0.032	240	3.8	IRFS52N15DPBF-ND◆	4.09	3.65	3.00
	150	83	0.012	330	330	IRFS4228PBF-ND◆	5.07	4.53	3.71
	150	83	0.015	330	330	IRFS4321PBF-ND◆	4.42	3.95	3.24
	150	83	0.015	330	330	IRFS4321TRLPBFCT-ND†◆	4.73	4.26	3.47
	150	83	0.015	330	330	IRFS4321TRLPBFTR-ND‡◆		1892.80/800	
	150	195	0.0121	396	375	IRFS4115TRLPBFCT-ND†◆ ***NEW!***	4.11	3.71	3.02
	150	195	0.0121	396	375	IRFS4115TRLPBFTR-ND‡◆ ***NEW!***		1645.60/800	
	200	9.3	0.30	37	82	IRF630NSTRL-ND‡		1053.86/800	
	200	9.3	0.30	37	82	IRF630NSTRLPBFCT-ND†◆	1.78	1.53	1.25
	200	9.3	0.30	37	82	IRF630NSTRLPBFTR-ND‡◆		640.00/800	
	200	18	0.105	52	100	IRFS4020TRLPBFCT-ND†◆ ***NEW!***	2.10	1.80	1.47
	200	18	0.105	52	100	IRFS4020TRLPBFTR-ND‡◆ ***NEW!***		756.00/800	
	200	18	0.15	72	150	IRF640NSTRLPBFCT-ND†◆	2.39	2.06	1.68
	200	18	0.15	72	150	IRF640NSTRLPBFTR-ND‡◆		861.60/800	
	200	18	0.15	72	150	IRF640NSTRR-ND‡		1404.27/800	
	200	24	0.0775	100	144	IRFS4620TRLPBFCT-ND†◆	1.95	1.68	1.37
	200	24	0.0775	100	144	IRFS4620TRLPBFTR-ND‡◆		701.60/800	
	200	24	0.0775	100	144	IRFS5620TRLPBFCT-ND†◆	1.95	1.68	1.37
	200	24	0.0775	100	144	IRFS5620TRLPBFTR-ND‡◆		701.60/800	
	200	72	0.022	300	375	IRFS4127TRLPBFCT-ND†◆ ***NEW!***	4.92	4.44	3.62
	200	72	0.022	300	375	IRFS4127TRLPBFTR-ND‡◆ ***NEW!***		1969.60/800	
						D^2Pak Logic Level			
1	20	36	0.016	140	35	IRL3714ZSCTL-ND†	2.69	2.31	1.89
	30	140	0.009	470	3.8	IRL3803STRLPBFCT-ND†◆	3.06	2.76	2.25
	30	140	0.009	470	3.8	IRL3803STRLPBFTR-ND‡◆		1224.00/800	
	40	195	0.0017	1372	375	IRLS3034TRLPBFCT-ND†◆ ***NEW!***	5.11	4.61	3.75
	40	195	0.0017	1372	375	IRLS3034TRLPBFTR-ND‡◆ ***NEW!***		2044.80/800	
	55	18	0.105	72	3.8	IRLZ24NSTRLPBFCT-ND†◆	1.73	1.55	1.24
	55	18	0.105	72	3.8	IRLZ24NSTRLPBFTR-ND‡◆		605.60/800	
	60	14	0.10	56	2.5	IRLR024-ND	3.87	3.23	2.71
	60	195	0.0024	1100	380	IRLS3036TRLPBFCT-ND†◆ ***NEW!***	4.85	4.37	3.56
	60	195	0.0024	1100	380	IRLS3036TRLPBFTR-ND‡◆ ***NEW!***		1938.40/800	
	100	10	0.18	35	3.8	IRL520NSPBF-ND◆	1.45	1.29	1.02
	100	17	0.150	60	3.8	IRL530NSTRLPBFCT-ND†◆	1.88	1.69	1.34
	100	17	0.150	60	3.8	IRL530NSTRLPBFTR-ND‡◆		658.40/800	
	100	36	0.063	120	3.8	IRL540NSTRLCT-ND†	3.19	2.19	1.74
	100	36	0.063	120	3.8	IRL540NSTRLTR-ND‡		1330.48/800	
	100	36	0.063	120	3.8	IRL540NSTRLPBFCT-ND†◆	2.28	1.96	1.60
	100	36	0.063	120	3.8	IRL540NSTRLPBFTR-ND‡◆		821.60/800	
	100	180	0.0043	730	370	IRLS4030TRLPBFCT-ND†◆ ***NEW!***	5.39	4.86	3.96
	100	180	0.0043	730	370	IRLS4030TRLPBFTR-ND‡◆ ***NEW!***		2156.80/800	
						DPak			
2	20	60	0.0084	240	48	IRFR3704ZTR-ND‡		2008.61/2,000	
	20	75	0.009	300	90	IRFR3704PBFCT-ND†◆	1.12	1.01	.80
	20	75	0.009	280	88	IRFR3706PBFCT-ND†◆	1.28	1.15	.91
	20	93	0.0057	370	79	IRFR3711ZCTRPBFCT-ND†◆	1.23	1.11	.88
	20	100	0.006	440	2.5	IRFR3711PBFCT-ND†◆	1.25	1.13	.89
	30	33	0.031	120	57	IRFR3303PBFCT-ND†◆	1.17	1.06	.84
	30	33	0.031	120	57	IRFR3303PBFTR-ND‡◆		866.00/2,000	
	30	56	0.0095	220	50	IRFR3707ZPBFCT-ND†◆	.88	.77	.61
	30	61	0.013	244	87	IRFR3707PBFCT-ND†◆	1.25	1.12	.89
	30	86	0.0065	340	79	IRFR3709ZPBFCT-ND†◆	2.01	1.72	1.41
	30	86	0.0065	340	79	IRFR3709ZPBFTR-ND‡◆		1548.00/2,000	
	40	42	0.009	310	90	IRFR3504Z-ND	2.66	1.73	1.33
	40	42	0.009	310	90	IRFR3504ZPBFCT-ND†◆	1.82	1.56	1.28
	40	42	0.009	310	90	IRFR3504ZPBFTR-ND‡◆		4056.00/6,000	
	55	17	0.075	68	38	IRFR024NPBFCT-ND†◆	.91	.79	.63
2	55	17	0.075	68	38	IRFR024NPBFTR-ND‡◆		600.00/2,000	
	55	27	0.045	100	68	IRFR4105PBFCT-ND†◆	1.10	.99	.79
	55	27	0.045	100	68	IRFR4105PBFTR-ND‡◆		810.00/2,000	
	55	42	0.0135	240	110	IRLR2905ZPBF-ND◆	1.33	1.18	.94
	55	42	0.0145	240	110	IRFR2905ZPBFCT-ND†◆	1.52	1.37	1.09
	55	42	0.0145	240	110	IRFR2905ZPBFTR-ND‡◆		1122.00/2,000	
	55	44	0.027	160	107	IRFR1205PBFCT-ND†◆	1.32	1.19	.94
	55	44	0.027	160	107	IRFR1205PBFTR-ND‡◆		974.00/2,000	
	55	56	0.016	220	110	IRFR2405PBFCT-ND†◆	1.53	1.37	1.09
	55	56	0.016	220	110	IRFR2405PBFTR-ND‡◆		1128.00/2,000	
	60	43	0.0158	170	71	IRFR3806TRPBFCT-ND†◆	1.18	1.06	.84
	60	43	0.0158	170	71	IRFR3806TRPBFTR-ND‡◆		868.00/2,000	
	60	56	0.0084	315	110	IRFR1018ETRPBFCT-ND†◆	1.48	1.33	1.06
	60	56	0.0084	315	110	IRFR1018ETRPBFTR-ND‡◆		1092.00/2,000	
	75	56	0.0090	310	140	IRFR3607TRPBFCT-ND†◆	1.62	1.45	1.15
	75	56	0.0090	310	140	IRFR3607TRPBFTR-ND‡◆		1190.00/2,000	
	100	9.4	0.21	38	48	IRFR120NPBFCT-ND†◆	.98	.85	.67
	100	9.4	0.21	38	48	IRFR120NPBFTR-ND‡◆		646.00/2,000	
	100	16	0.115	60	79	IRFR3910TRL-ND‡		2249.79/3,000	
	100	31	0.039	125	110	IRFR3410TRLPBFCT-ND†◆	1.37	1.23	.98
	100	31	0.039	125	110	IRFR3410TRLPBFTR-ND‡◆		1515.00/3,000	
	150	33	0.042	140	144	IRFR4615TRLPBFCT-ND†◆	1.63	1.46	1.16
	150	33	0.042	140	144	IRFR4615TRLPBFTR-ND‡◆		1803.00/3,000	
	200	24	0.078	100	144	IRFR4620TRLPBFCT-ND†	1.66	1.49	1.18
	200	24	0.078	100	144	IRFR4620TRLPBFTR-ND‡		1836.00/3,000	
						DPak Logic Level			
2	20	49	0.011	200	40	IRLR3715ZCTRLPCT-ND†◆	.62	.54	.43
	25	51	0.0094	200	44	IRLR8715CPBF-ND◆	.74	.65	.50
	25	57	0.0087	230	48	IRLR8259TRPBFCT-ND◆ ***NEW!***	.97	.87	.70
	25	57	0.0087	230	48	IRLR8259TRPBFTR-ND◆ ***NEW!***		716.00/2,000	
	25	81	0.0057	325	63	IRLR8256TRPBFCT-ND◆ ***NEW!***	1.10	.95	.75
	25	81	0.0057	325	63	IRLR8256TRPBFTR-ND◆ ***NEW!***		722.00/2,000	
	30	35	0.031	140	68	IRLR3303-ND	2.24	2.03	1.63
	30	35	0.031	140	68	IRLR3303PBFCT-ND†◆	1.84	1.58	1.29
	30	35	0.031	140	68	IRLR3303PBFTR-ND‡◆		1420.00/2,000	
	30	43	0.0138	170	40	IRLR7807Z-ND	1.74	1.13	.87
	30	43	0.0138	170	40	IRLR7807ZPBFCT-ND†◆	.97	.84	.66
	30	43	0.0138	170	40	IRLR7807ZPBFTR-ND‡◆		638.00/2,000	
	30	65	0.01	260	75	IRLR7821-ND	2.13	1.39	1.06
	30	65	0.0084	260	65	IRLR8721TRPBFCT-ND†◆	1.09	.98	.78
	30	65	0.0084	260	65	IRLR8721TRPBFTR-ND‡◆		800.00/2,000	
	30	94	0.006	380	89	IRLR8113PBFCT-ND†◆	1.38	1.24	.99
	30	94	0.006	380	89	IRLR8113PBFTR-ND‡		1016.00/2,000	
	30	140	0.0045	560	140	IRLR7833-ND	3.78	2.59	2.06
	30	160	0.0031	640	135	IRLR8743TRPBFCT-ND†◆	1.47	1.32	1.05
	30	160	0.0031	640	135	IRLR8743TRPBFTR-ND‡◆		1086.00/2,000	
	30	161	0.0033	620	140	IRLR7843PBFCT-ND†◆	1.65	1.48	1.17
	30	161	0.0038	620	140	IRLR7843PBFTR-ND‡◆		1212.00/2,000	
	40	42	0.0049	500	140	IRLR3114ZTRPBFCT-ND†◆	1.73	1.55	1.24
	40	42	0.0049	500	140	IRLR3114ZTRPBFTR-ND‡◆		1276.00/2,000	
	55	17	0.065	72	45	IRLR024NPBFCT-ND†◆	.92	.80	.63
	55	17	0.065	72	45	IRLR024NPBFTR-ND‡◆		606.00/2,000	
	55	42	0.012	360	130	IRLR3705ZPBF-ND◆	1.85	1.68	1.35
	55	42	0.027	160	110	IRLR2905PBFCT-ND†◆	1.60	1.44	1.14
	55	42	0.027	160	110	IRLR2905PBFTR-ND‡◆		1182.00/2,000	
	60	50	0.0068	396	143	IRLR3636TRPBFCT-ND†◆ ***NEW!***	1.64	1.47	1.17
	60	99	0.0068	396	143	IRLR3636TRPBFTR-ND‡◆ ***NEW!***		1210.00/2,000	
	80	30	0.028	150	120	IRLR2908TRLPBFCT-ND†◆	1.68	1.51	1.20
	80	30	0.028	150	120	IRLR2908TRLPBFTR-ND‡◆		1860.00/3,000	
	100	10	0.185	35	48	IRLR120NPBFCT-ND†◆	1.05	.95	.75
	100	10	0.185	35	48	IRLR120NPBFTR-ND‡◆		776.00/2,000	
	100	17	0.105	60	79	IRLR3410PBFCT-ND†◆	1.07	.96	.76
	100	17	0.105	60	79	IRLR3410PBFTR-ND‡◆		786.00/2,000	
						Micro-3™ (SOT-23) Logic Level — RoHS Compliant			
3	20	1.2	0.25	7.4	540	IRLML2402PBFCT-ND†	.63	.45	.30
	20	1.2	0.25	7.4	540	IRLML2402PBFTR-ND‡		318.00/3,000	
	20	4.2	0.045	33	1.25	IRLML2502PBFCT-ND†	.51	.41	.31
	20	4.2	0.045	33	1.25	IRLML2502PBFTR-ND‡		429.00/3,000	
	30	1.2	0.25	7.3	540	IRLML2803PBFCT-ND†	.61	.44	.29
	30	1.2	0.25	7.3	540	IRLML2803PBFTR-ND‡		312.00/3,000	
	30	2.7	0.100	11	1.3	IRLML2030TRPBFCT-ND† ***NEW!***	.46	.37	.25
	30	2.7	0.100	11	1.3	IRLML2030TRPBFTR-ND‡ ***NEW!***		318.00/3,000	
	30	5.3	0.027	21	1.3	IRLML0030TRPBFCT-ND† ***NEW!***	.59	.47	.32
	30	5.3	0.027	21	1.3	IRLML0030TRPBFTR-ND‡ ***NEW!***		405.00/3,000	

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

C

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
3	60	2.7	0.092	11	1.25	IRLML0060TRPBFCT-ND† ***NEW!***	.61	.48	.33
	60	2.7	0.092	11	1.25	IRLML0060TRPBFTR-ND‡ ***NEW!***		417.00/3,000	
	60	1.2	0.480	4.8	1.25	IRLML2060TRPBFCT-ND† ***NEW!***	.56	.40	.27
	60	1.2	0.480	4.8	1.25	IRLML2060TRPBFTR-ND‡ ***NEW!***		285.00/3,000	
	100	1.6	0.220	7.0	1.3	IRLML0100TRPBFCT-ND† ***NEW!***	.59	.48	.36
	100	1.6	0.220	7.0	1.3	IRLML0100TRPBFTR-ND‡ ***NEW!***		498.00/3,000	

Micro-6™ (TSOP-6) Logic Level — RoHS Compliant

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	20	3.2	0.1	18	1.7	IRLMS1902PBFCT-ND†	.55	.44	.33
	20	3.2	0.1	18	1.7	IRLMS1902PBFTR-ND‡		465.00/3,000	
	20	6.5	0.03	20	2.0	IRLMS2002PBFCT-ND†	.79	.63	.48
	20	6.5	0.03	20	2.0	IRLMS2002PBFTR-ND‡		666.00/3,000	
	30	3.2	0.1	18	1.7	IRLMS1503PBFCT-ND†	.55	.44	.33
	30	3.2	0.1	18	1.7	IRLMS1503PBFTR-ND‡		465.00/3,000	

Micro-8™ Logic Level

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5	30	5.6	0.060	30	1.8	IRF7603CT-ND†	1.07	.96	.77
	30	5.6	0.060	30	1.8	IRF7603TR-ND‡		20843.16/4,000	
	30	5.6	0.060	30	1.8	IRF7603TRPBFCT-ND†◆	.72	.62	.49
	30	5.6	0.060	30	1.8	IRF7603TRPBFTR-ND‡◆		944.00/4,000	

Micro-8™ Dual Logic Level

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5	20	2.4	0.135	19	1.25	IRF7501CT-ND†	2.38	2.04	1.67
	20	2.4	0.135	19	1.25	IRF7501TRPBFCT-ND†◆	.76	.66	.52
	20	2.4	0.135	19	1.25	IRF7501TRPBFTR-ND‡◆		996.00/4,000	
	20	5.4	0.045	40	1.3	IRF7530TRPBFCT-ND†◆	.88	.76	.60
	20	5.4	0.045	40	1.3	IRF7530TRPBFTR-ND‡◆		1156.00/4,000	
	30	2.4	0.222	14	1.25	IRF7503TRPBFCT-ND†◆	.76	.66	.52
	30	2.4	0.222	14	1.25	IRF7503TRPBFTR-ND‡◆		996.00/4,000	

SO-8 / SOIC-8

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	20	6.8	0.035	54	2.5	IRF7402PBFCT-ND†◆	1.09	.95	.75
	20	6.8	0.035	54	2.5	IRF7402PBFTR-ND‡◆		1440.00/4,000	
	20	7.0	0.03	28	2.0	IRF7331PBFCT-ND†◆	.97	.87	.69
	20	7.0	0.03	28	2.0	IRF7331PBFTR-ND‡◆		1424.00/4,000	
	20	10	0.0134	82	2.0	IRF8910PBFCT-ND†◆	1.09	.98	.78
	20	10	0.0134	82	2.0	IRF8910PBFTR-ND‡◆		1600.00/4,000	
	20	10	0.0134	83	2.0	IRF9910PBFCT-ND†◆	1.37	1.23	.98
	20	10	0.0134	83	2.0	IRF9910PBFTR-ND‡◆		2016.00/4,000	
	20	20	.0044	160	2.5	IRF3717-ND	3.20	2.08	1.59
	20	20	.0044	160	2.5	IRF3717PBFCT-ND†◆	1.33	1.20	.95
	20	20	.0044	160	2.5	IRF3717PBFTR-ND‡◆		1964.00/4,000	
	25	25	0.0027	200	2.5	IRF8252TRPBFCT-ND†◆	1.79	1.61	1.28
	25	25	0.0027	200	2.5	IRF8252TRPBFTR-ND‡◆		2644.00/4,000	
	30	7.6	0.0145	61	1.4	IRF7904PBF-ND◆	1.09	.97	.77
	30	7.8	0.0234	62	2.0	IRF7905PBF-ND◆	.97	.87	.69
	30	8.3	0.017	66	2.5	IRF7807V-ND	2.05	1.33	1.02
	30	8.3	0.017	66	2.5	IRF7807VPBFCT-ND†◆	1.09	.95	.75
	30	8.3	0.017	66	2.5	IRF7807VPBFTR-ND‡◆		1440.00/4,000	
	30	9.1	0.0171	76	2.0	IRF7907PBF-ND◆	1.15	1.02	.81
	30	10.8	0.011	100	2.5	IRF7811AV-ND	2.44	1.59	1.22
	30	10.8	0.011	100	2.5	IRF7811AVPBFCT-ND†◆	1.12	1.01	.80
	30	10.8	0.011	100	2.5	IRF7811AVPBFTR-ND‡◆		1652.00/4,000	
	30	11	0.0119	88	2.5	IRF8707TRPBFCT-ND†◆	.80	.65	.49
	30	11	0.0119	88	2.5	IRF8707TRPBFTR-ND‡◆		904.00/4,000	
	30	11	0.014	88	2.5	IRF7807ZPBFCT-ND†◆	.90	.78	.62
	30	11	0.014	88	2.5	IRF7807ZPBFTR-ND‡◆		1184.00/4,000	
	30	11	0.0119	88	2.5	IRF8707GTRPBFCT-ND†◆ ***NEW!***	.67	.59	.46
	30	11	0.0119	88	2.5	IRF8707GTRPBFTR-ND‡◆ ***NEW!***		888.00/4,000	
	30	13	0.01	100	2.5	IRF7413ZPBFCT-ND†◆	1.00	.90	.72
	30	13	0.01	100	2.5	IRF7413ZPBFTR-ND‡◆		1480.00/4,000	
	30	13	0.011	100	2.5	IRF7805PBFCT-ND†◆	1.52	1.37	1.09
	30	13	0.011	100	2.5	IRF7805TR-ND‡		4676.87/4,000	
	30	13	0.011	100	2.5	IRF7805PBFTR-ND‡◆		2244.00/4,000	
	30	13	0.011	100	2.5	IRF7805APBFCT-ND†◆	1.35	1.21	.96
	30	13	0.011	100	2.5	IRF7805QTRPBFCT-ND†◆	2.06	1.28	.94
	30	13	0.011	100	2.5	IRF7805QTRPBFTR-ND‡◆		2682.05/4,000	
	30	13.6	0.0091	100	2.5	IRF7821-ND	2.34	1.53	1.17
	30	13.6	0.0091	100	2.5	IRF7821PBFCT-ND†◆	1.14	1.03	.82
	30	13.6	0.0091	100	2.5	IRF7821PBFTR-ND‡◆		1684.00/4,000	
	30	14	0.008	110	2.5	IRF7458-ND	2.84	1.85	1.41
	30	14	0.008	110	2.5	IRF7458PBFCT-ND†◆	1.53	1.37	1.09
	30	14	0.008	110	2.5	IRF7458PBFTR-ND‡◆		2256.00/4,000	
	30	14	0.008	110	2.5	IRF7477PBFCT-ND†◆	1.31	1.18	.94
	30	14	0.0085	110	2.5	IRF8721TRPBFCT-ND†◆	.73	.64	.51
	30	14	0.0085	110	2.5	IRF8721TRPBFTR-ND‡◆		968.00/4,000	
	30	14	0.0085	110	2.5	IRF8721GTRPBFCT-ND†◆ ***NEW!***	.77	.67	.53
	30	14	0.0085	110	2.5	IRF8721GTRPBFTR-ND‡◆ ***NEW!***		1016.00/4,000	
	30	14	0.0087	110	2.5	IRF8714TRPBFCT-ND†◆	.70	.61	.48
	30	14	0.0087	110	2.5	IRF8714TRPBFTR-ND‡◆		928.00/4,000	
	30	14	0.0087	110	2.5	IRF8714GTRPBFCT-ND†◆ ***NEW!***	.74	.64	.51
	30	14	0.0087	110	2.5	IRF8714GTRPBFTR-ND‡◆ ***NEW!***		976.00/4,000	
	30	16	0.0068	120	2.5	IRF7805ZGTRPBFCT-ND†◆	1.73	1.49	1.22
	30	16	0.007	120	2.5	IRF7805ZPBFCT-ND†◆	.98	.89	.70
	30	16	0.007	120	2.5	IRF7805ZPBFTR-ND‡◆		1452.00/4,000	

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	30	18	0.0048	144	2.5	IRF8736TRPBFCT-ND†◆	1.00	.87	.69
	30	18	0.0048	144	2.5	IRF8736TRPBFTR-ND‡◆		1316.00/4,000	
	30	20	0.004	160	2.5	IRF7832CT-ND†	3.24	2.92	2.38
	30	20	0.004	160	2.5	IRF7832PBFCT-ND†◆	1.77	1.59	1.27
	30	20	0.004	160	2.5	IRF7832PBFTR-ND‡◆		2616.00/4,000	
	30	21	0.0037	170	2.5	IRF7862TRPBFCT-ND†◆	1.39	1.25	.99
	30	21	0.0037	170	2.5	IRF7862TRPBFTR-ND‡◆		2044.00/4,000	
	30	21	0.0035	168	2.5	IRF8734TRPBFCT-ND†◆ ***NEW!***	1.04	.93	.74
	30	21	0.0035	168	2.5	IRF8734TRPBFTR-ND‡◆ ***NEW!***		1528.00/4,000	
	30	24	0.0028	190	2.5	IRF8788TRPBFCT-ND†◆	1.79	1.61	1.28
	30	24	0.0028	190	2.5	IRF8788TRPBFTR-ND‡◆		2644.00/4,000	
	40	9.0	0.017	73	2.5	IRF7469PBFCT-ND†◆	1.12	1.01	.80
	40	9.0	0.017	73	2.5	IRF7469PBFTR-ND‡◆		1652.00/4,000	
	40	10	0.013	85	1.6	IRF7470PBFCT-ND†◆	1.42	1.28	1.01
	40	10	0.013	85	1.6	IRF7470PBFTR-ND‡◆		2096.00/4,000	
	40	18	0.005	140	2.5	IRF7842PBFCT-ND†◆	1.87	1.68	1.33
	40	18	0.005	140	2.5	IRF7842PBFTR-ND‡◆		2756.00/4,000	
	60	7.0	0.026	56	2.5	IRF7478PBFCT-ND†◆	1.11	1.00	.80
	60	7.0	0.026	56	2.5	IRF7478PBFTR-ND‡◆		1640.00/4,000	
	100	4.5	0.06	36	2.5	IRF7452PBFCT-ND†◆	1.54	1.38	1.10
	100	4.5	0.06	36	2.5	IRF7452PBFTR-ND‡◆		2264.00/4,000	
	100	4.5	0.06	36	2.5	IRF7452QTRPBFCT-ND†◆	2.07	1.28	.94
	100	4.5	0.06	36	2.5	IRF7452QTRPBFTR-ND‡◆		2699.62/4,000	
	100	6.9	0.026	55	2.5	IRF7473-ND	3.36	2.19	1.68
	100	6.9	0.026	55	2.5	IRF7473PBFCT-ND†◆	1.71	1.54	1.22
	100	6.9	0.026	55	2.5	IRF7473PBFTR-ND‡◆		2524.00/4,000	
	100	7.3	0.022	58	2.5	IRF7495PBF-ND◆	1.75	1.55	1.23
	150	1.9	0.28	15	2.5	IRF7465PBFCT-ND†◆	.97	.87	.70
	150	1.9	0.28	15	2.5	IRF7465PBFTR-ND‡◆		1432.00/4,000	
	150	3.6	0.09	29	2.5	IRF7451PBFCT-ND†◆	1.51	1.35	1.08
	150	3.6	0.09	29	2.5	IRF7451PBFTR-ND‡◆		2224.00/4,000	
	150	5.1	0.043	41	2.5	IRF7815TRPBFCT-ND†◆ ***NEW!***	1.63	1.46	1.16
	150	5.1	0.043	41	2.5	IRF7815TRPBFTR-ND‡◆ ***NEW!***		2396.00/4,000	
	200	1.2	0.73	10	2.5	IRF7464-ND	2.42	2.16	1.78
	200	1.2	0.73	10	2.5	IRF7464PBFCT-ND†◆	.79	.69	.55

NEW! SO-8 / SOIC-8 Dual — RoHS Compliant NEW!

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	30	9.7	0.0155	81	2.0	IRF8313TRPBFCT-ND†	.88	.76	.60
	30	9.7	0.0155	81	2.0	IRF8313TRPBFTR-ND‡		1156.00/4,000	
	30	11	0.0127	88	2.4	IRF8513TRPBFCT-ND†	.99	.89	.71
	30	11	0.0127	88	2.4	IRF8513TRPBFTR-ND‡		1460.00/4,000	
	60	8.0	0.0178	64	2.0	IRF7351TRPBFCT-ND†	1.49	1.34	1.06
	60	8.0	0.0178	64	2.0	IRF7351TRPBFTR-ND‡		2196.00/4,000	

SO-8 / SOIC-8 Logic Level

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	20	5.2	0.05	21	2.0	IRF7301PBFCT-ND†◆	1.10	.99	.79
	20	5.2	0.05	21	2.0	IRF7301PBFTR-ND‡◆		1620.00/4,000	
	20	6.6	0.029	26	2.0	IRF7311PBFCT-ND†◆	1.17	1.05	.84
	20	6.6	0.029	26	2.0	IRF7311PBFTR-ND‡◆		1724.00/4,000	
	20	8.7	0.022	35	2.5	IRF7401PBFCT-ND†◆	1.08	.97	.77
	20	8.7	0.022	35	2.5	IRF7401PBFTR-ND‡◆		1592.00/4,000	
	20	15	0.007	120	2.5	IRF7457PBFCT-ND†◆	1.37	1.23	.98
	20	16	0.0065	130	2.5	IRF7456PBFCT-ND†◆	1.56	1.40	1.11
	20	16	0.0065	130	2.5	IRF7456PBFTR-ND‡◆		2300.00/4,000	
	30	4.9	0.05	20	2.0	IRF7303PBFCT-ND†◆	1.01	.91	.72
	30	4.9	0.05	20	2.0	IRF7303PBFTR-ND‡◆		1488.00/4,000	
	30	6.5	0.029	30	2.5	IRF7313-ND	2.37	1.55	1.18
	30	6.5	0.029	30	2.5	IRF7313PBFCT-ND†◆	1.16	1.04	.83
	30	6.5	0.029	30	2.5	IRF7313PBFTR-ND‡◆		1708.00/4,000	
	30	7.3	0.03	58	2.5	IRF7201PBFCT-ND†◆	.88	.76	.60
	30	7.3	0.03	58	2.5	IRF7201PBFTR-ND‡◆		1160.00/4,000	
	30	8.5	0.022	34	2.5	IRF7403-ND	2.04	1.33	1.02
	30	8.5	0.022	34	2.5	IRF7403PBFCT-ND†◆	1.02	.92	.73
	30	8.5	0.022	34	2.5	IRF7403PBFTR-ND‡◆		1508.00/4,000	
	30	10	0.0135	50	2.5	SI4410DYPBFCT-ND†◆	1.38	1.24	.99
	30	10	0.0135	50	2.5	SI4410DYPBFTR-ND‡◆		2040.00/4,000	
	30	11	0.0125	90	2.5	IRF7466PBFCT-ND†◆	1.03	.92	.73
	30	±12.5	0.009	±50	2.5	SI4420DYPBFCT-ND†◆	1.77	1.53	1.25
	30	±12.5	0.009	±50	2.5	SI4420DYPBFTR-ND‡◆		2736.00/4,000	
	30	13	0.011	58	2.5	IRF7413PBFCT-ND†◆	1.04	.93	.74
	30	13	0.011	58	2.5	IRF7413PBFTR-ND‡◆		1528.00/4,000	
	30	14	0.009	109	3.1	IRF7811W-ND	2.53	1.65	1.26
	30	15	0.0075	120	2.5	IRF7455-ND	3.26	2.12	1.63
	30	15	0.0075	120	2.5	IRF7455PBFCT-ND†◆	1.50	1.35	1.07
	30	15	0.0075	120	2.5	IRF7455PBFTR-ND‡◆		2216.00/4,000	
	50	3.0	0.13	10	2.0	IRF7103PBFCT-ND†◆	.81	.71	.56
	50	3.0	0.13	10	2.0	IRF7103PBFTR-ND‡◆		1072.00/4,000	
	55	4.7	0.05	38	2.0	IRF7341PBFCT-ND†◆	1.05	.94	.75
	55	4.7	0.05	38	2.0	IRF7341PBFTR-ND‡◆		1544.00/4,000	

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

International IOR Rectifier

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
SO-8 / SOIC-8 "Fetky™" Mosfet and Schottky Diode — RoHS Compliant									
6	30	5.8	0.035	33	2.5	IRF7421D1PBFCT-ND†	.84	.73	.57
	30	5.8	0.035	33	2.5	IRF7421D1PBFTR-ND‡		1272.00/4,000	
	30	6.5	0.029	52	2.0	IRF7353D1PBFCT-ND†	.90	.78	.62
	30	6.5	0.029	52	2.0	IRF7353D2PBFCT-ND†	1.14	1.02	.81
	30	6.5	0.029	52	2.0	IRF7353D2PBFTR-ND‡		1680.00/4,000	
	30	8.3	0.017	66	2.5	IRF7807VD1PBFCT-ND†	1.03	.90	.71
	30	8.3	0.017	66	2.5	IRF7807VD1PBFTR-ND‡		1364.00/4,000	
	30	8.3	0.025	66	2.5	IRF7807D1PBFCT-ND†	1.01	.88	.69
	30	8.3	0.025	66	2.5	IRF7807D1PBFTR-ND‡		1336.00/4,000	
	30	8.3	0.025	66	2.5	IRF7807D2PBFCT-ND†	1.01	.91	.73
	30	8.3	0.025	66	2.5	IRF7807D2PBFTR-ND‡		1496.00/4,000	
NEW! PQFN33 — RoHS Compliant NEW!									
8	30	12	0.0124	96	2.8	IRFH3707TR2PBFCT-ND†	.86	.75	.59
	30	12	0.0124	96	2.8	IRFH3707TR2PBFTR-ND‡		184.40/400	
	30	16	0.0071	120	2.8	IRFH3702TR2PBFCT-ND†	1.04	.90	.71
	30	16	0.0071	120	2.8	IRFH3702TR2PBFTR-ND‡		222.00/400	
PQFN56 — RoHS Compliant									
8	25	45	0.00115	400	3.6	IRFH5250TR2PBFCT-ND† ***NEW!***	1.95	1.68	1.37
	25	45	0.00115	400	3.6	IRFH5250TR2PBFTR-ND‡ ***NEW!***		445.60/400	
	25	40	0.0014	400	3.6	IRFH5250DTR2PBFCT-ND† ***NEW!***	2.22	1.91	1.56
	25	40	0.0014	400	3.6	IRFH5250DTR2PBFTR-ND‡ ***NEW!***		507.20/400	
	25	15	0.006	60	3.6	IRFH5255TR2PBFCT-ND† ***NEW!***	1.23	1.10	.88
	25	15	0.006	60	3.6	IRFH5255TR2PBFTR-ND‡ ***NEW!***		277.60/400	
	30	33	0.0087	120	3.1	IRFH7923TRPBFCT-ND†	1.06	.92	.72
	30	34	0.0085	120	3.1	IRFH7921TRPBFCT-ND†	1.03	.90	.71
	30	34	0.0085	120	3.1	IRFH7921TRPBFTR-ND‡		1364.004,000	
	30	15	0.0085	120	3.1	IRFH7921TR2PBFCT-ND† ***NEW!***	1.03	.90	.71
	30	15	0.0085	120	3.1	IRFH7921TR2PBFTR-ND‡ ***NEW!***		220.80/400	
	30	15	0.0087	110	3.1	IRFH7914TR2PBFCT-ND† ***NEW!***	.95	.83	.65
	30	15	0.0087	110	3.1	IRFH7914TR2PBFTR-ND‡ ***NEW!***		203.20/400	
	30	40	0.0014	400	3.6	IRFH5300TR2PBFCT-ND† ***NEW!***	1.95	1.68	1.37
	30	40	0.0014	400	3.6	IRFH5300TR2PBFTR-ND‡ ***NEW!***		445.60/400	
	30	15	0.0081	60	3.6	IRFH5306TR2PBFCT-ND† ***NEW!***	1.04	.94	1.04
	30	15	0.0081	60	3.6	IRFH5306TR2PBFTR-ND‡ ***NEW!***		235.60/400	
	30	20	0.0048	160	3.1	IRFH7936TR2PBFCT-ND† ***NEW!***	1.18	1.06	.84
	30	20	0.0048	160	3.1	IRFH7936TR2PBFTR-ND‡ ***NEW!***		267.60/400	
	30	35	0.00185	400	3.6	IRFH5301TR2PBFCT-ND† ***NEW!***	1.67	1.50	1.19
	30	35	0.00185	400	3.6	IRFH5301TR2PBFTR-ND‡ ***NEW!***		378.40/400	
	30	32	0.0021	400	3.6	IRFH5302TR2PBFCT-ND† ***NEW!***	1.46	1.31	1.46
	30	32	0.0021	400	3.6	IRFH5302TR2PBFTR-ND‡ ***NEW!***		331.20/400	
	30	104	0.0033	192	3.1	IRFH7932TRPBFCT-ND†	1.49	1.33	1.06
	30	104	0.0033	192	3.1	IRFH7932TRPBFTR-ND‡		2188.00/4,000	
	30	24	0.0033	192	3.1	IRFH7932TR2PBFCT-ND† ***NEW!***	1.49	1.33	1.06
	30	24	0.0033	192	3.1	IRFH7932TR2PBFTR-ND‡ ***NEW!***		336.40/400	
	30	29	0.0025	400	3.6	IRFH5302TR2PBFCT-ND† ***NEW!***	1.46	1.31	1.04
	30	29	0.0025	400	3.6	IRFH5302TR2PBFTR-ND‡ ***NEW!***		331.20/400	
	30	22	0.0045	320	3.6	IRFH5304TR2PBFCT-ND† ***NEW!***	1.12	1.00	.80
	30	22	0.0045	320	3.6	IRFH5304TR2PBFTR-ND‡ ***NEW!***		252.80/400	
	40	28	0.0026	400	3.6	IRFH5004TR2PBFCT-ND† ***NEW!***	2.31	1.99	1.62
	40	28	0.0026	400	3.6	IRFH5004TR2PBFTR-ND‡ ***NEW!***		528.80/400	
	100	46	0.018	75	3.1	IRFH5053TRPBFCT-ND†	1.84	1.58	1.29
	100	46	0.018	75	3.1	IRFH5053TRPBFTR-ND‡		2836.00/4,000	
	100	9.3	0.018	75	3.1	IRFH5053TR2PBFCT-ND† ***NEW!***	1.84	1.58	1.29
	100	9.3	0.018	75	3.1	IRFH5053TR2PBFTR-ND‡ ***NEW!***		420.00/400	
	100	13	0.0099	400	3.6	IRLH5030TR2PBFCT-ND† ***NEW!***	2.31	1.99	1.62
	100	13	0.0099	400	3.6	IRLH5030TR2PBFTR-ND‡ ***NEW!***		528.80/400	
	150	10	0.031	220	3.6	IRFH5015TR2PBFCT-ND† ***NEW!***	2.54	2.19	1.79
	150	10	0.031	220	3.6	IRFH5015TR2PBFTR-ND‡ ***NEW!***		581.60/400	
	200	5.1	0.055	63	3.6	IRFH5020TR2PBFCT-ND† ***NEW!***	2.54	2.19	1.79
	200	5.1	0.055	63	3.6	IRFH5020TR2PBFTR-ND‡ ***NEW!***		581.60/400	
D^2Pak-7 — RoHS Compliant									
9	24	429	0.001	1640	300	IRF1324S-7PPBF-ND	5.50	4.91	4.03
	24	429	0.001	1640	300	IRF1324STRL-7PPCT-ND†	5.89	5.31	4.33
	24	429	0.001	1640	300	IRF1324STRL-7PPTR-ND‡		2356.80/800	
	40	240	0.00125	1610	380	IRFS3004TRL7PPCT-ND† ***NEW!***	4.82	4.34	3.54
	40	240	0.00125	1610	380	IRFS3004TRL7PPTR-ND‡ ***NEW!***		1927.20/800	
	60	293	0.0021	1172	375	IRFS3006-7PPBF-ND	5.42	4.84	3.97
	60	240	0.0021	1172	375	IRFS3006TRL7PPCT-ND† ***NEW!***	5.81	5.23	4.26
	60	240	0.0021	1172	375	IRFS3006TRL7PPTR-ND‡ ***NEW!***		2322.40/800	
	75	180	0.0038	700	300	IRF2907ZS-7PPBF-ND	5.10	4.55	3.74
	75	180	0.0038	700	300	IRF2907ZSTRL7PPTR-ND‡		2184.00/800	
	75	260	0.0026	1060	370	IRFS3107-7PPBF-ND	5.54	4.95	4.06
	75	240	0.0026	1060	370	IRFS3107TRL7PPCT-ND† ***NEW!***	5.93	5.34	4.35
	75	240	0.0026	1060	370	IRFS3107TRL7PPTR-ND‡ ***NEW!***		2372.80/800	
	100	190	0.0040	740	380	IRFS4010-7PPBF-ND	6.16	5.50	4.51
	100	190	0.0040	740	380	IRFS4010TRL7PPCT-ND† ***NEW!***	6.60	5.94	4.84
	100	190	0.0040	740	380	IRFS4010TRL7PPTR-ND‡ ***NEW!***		2639.20/800	
	150	105	0.0118	420	380	IRFS4115TRL7PPCT-ND† ***NEW!***	6.20	5.58	4.55
	150	105	0.0118	420	380	IRFS4115TRL7PPTR-ND‡ ***NEW!***		2479.20/800	

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
D^2Pak-7 Logic Level — RoHS Compliant									
9	40	240	0.0014	1540	380	IRLS3034TRL7PPCT-ND† ***NEW!***	6.45	5.81	4.73
	40	240	0.0014	1540	380	IRLS3034TRL7PPTR-ND‡ ***NEW!***		2580.00/800	
	60	300	0.0024	1000	380	IRLS3036TRL7PPCT-ND†	6.13	5.52	4.50
	60	300	0.0024	1000	380	IRLS3036TRL7PPTR-ND‡		2452.80/800	
	100	190	0.0039	750	370	IRLS4030TRL7PPCT-ND† ***NEW!***	6.73	6.06	4.94
	100	190	0.0039	750	370	IRLS4030TRL7PPTR-ND‡ ***NEW!***		2692.00/800	
SOT-223									
10	55	1.9	0.16	15	2.1	IRFL014N-ND	8.56	6.27	5.19
	55	1.9	0.16	15	2.1	IRFL014NPBFCT-ND†◆	.81	.65	.49
	55	1.9	0.16	15	2.1	IRFL014NPBFTR-ND‡◆		570.00/2,500	
	100	1.6	0.20	13	1.0	IRFL4310TRPBFCT-ND†◆	.66	.58	.46
	100	1.6	0.20	13	1.0	IRFL4310TRPBFTR-ND‡◆		547.50/2,500	
SOT-223 Logic Level — RoHS Compliant									
10	30	4.6	0.031	37	1.0	IRLL3303PBFCT-ND†	.90	.78	.62
	30	4.6	0.031	37	1.0	IRLL3303PBFTR-ND‡		742.50/2,500	
	55	2	0.14	16	2.1	IRLL014NPBFCT-ND†	.79	.63	.48
	55	2	0.14	16	2.1	IRLL014NPBFTR-ND‡		555.00/2,500	
	55	3.1	0.065	12	2.1	IRLL024NPBFCT-ND†	.91	.79	.63
	55	3.1	0.065	12	2.1	IRLL024NPBFTR-ND‡		750.00/2,500	
	55	3.8	0.04	30	1.0	IRLL2705PBFCT-ND†	.99	.86	.68
	55	3.8	0.04	30	1.0	IRLL2705PBFTR-ND‡		820.00/2,500	
DirectFET™									
11A	20	15	0.0082	120	2.2	IRF6610TR1PBFCT-ND†◆	2.57	2.21	1.81
	20	15	0.0082	120	2.2	IRF6610TR1PBFTR-ND‡◆		1066.00/1,000	
	20	15	0.0082	120	2.2	IRF6610TRPBFCT-ND†◆	2.11	1.81	1.48
	20	16	0.0057	120	2.1	IRF6623CT-ND†	2.35	2.02	1.65
	20	16	0.0057	120	2.1	IRF6623TR-ND‡		4070.40/4,800	
	20	16	0.0097	120	1.4	IRF6623TR1PBFCT-ND†◆	2.87	2.46	2.01
	20	16	0.0097	120	1.4	IRF6623TR1PBFTR-ND‡◆		1188.00/1,000	
	20	16	0.0097	120	1.4	IRF6623TRPBFCT-ND†◆	2.35	2.02	1.65
	20	16	0.007	132	2.3	IRF6633TR1PBFCT-ND†◆	3.01	2.58	2.11
	20	16	0.007	132	2.3	IRF6633TR1PBFTR-ND‡◆		1247.00/1,000	
	20	18	0.0064	140	2.2	IRF6636CT-ND†	2.65	2.28	1.86
	20	18	0.0046	140	2.2	IRF6636TR1CT-ND†	3.22	2.07	1.61
	20	18	0.0046	140	2.2	IRF6636TR1TR-ND‡		1334.00/1,000	
	20	18	0.0046	140	2.2	IRF6636TR1PBFCT-ND†◆	3.22	2.76	2.26
	20	18	0.0046	140	2.2	IRF6636TR1PBFTR-ND‡◆		1334.00/1,000	
	20	27	0.0027	220	2.8	IRF6620CT-ND†	3.19	2.07	1.59
	20	27	0.0027	220	2.8	IRF6620TR-ND‡		6115.20/4,800	
	20	27	0.0036	220	2.8	IRF6620TR1PBFCT-ND†◆	3.09	2.78	2.27
	20	27	0.0036	220	2.8	IRF6620TR1PBFTR-ND‡◆		1441.00/1,000	
	20	27	0.0036	220	2.8	IRF6620TRPBFCT-ND†◆	2.96	2.54	2.07
	20	30	0.003	240	2.8	IRF6619CT-ND†	2.72	2.45	2.00
	20	30	0.003	240	2.8	IRF6619TR-ND‡		6427.20/4,800	
	20	30	0.0022	240	2.8	IRF6619TR1PBFCT-ND†◆	3.30	2.97	2.42
	20	30	0.0022	240	2.8	IRF6619TR1PBFTR-ND‡◆		1540.00/1,000	
	20	31	0.0026	250	1.8	IRF6609TR1PBFCT-ND†◆	3.93	3.54	2.89
	20	31	0.0026	250	1.8	IRF6609TR1PBFTR-ND‡◆		1834.00/1,000	
	20	32	0.0018	260	2.8	IRF6691TR1PBFCT-ND†◆	4.66	4.20	3.42
	20	32	0.0018	260	2.8	IRF6691TR1PBFTR-ND‡◆		2176.00/1,000	
	20	150	0.002	250	2.0	IRF6609CT-ND†	3.24	2.92	2.38
	20	150	0.002	250	2.0	IRF6609TR-ND‡		7651.20/4,800	
	25	27	0.0025	220	2.8	IRF6628TR1PBFCT-ND†◆	2.67	2.30	1.88
	25	27	0.0025	220	2.8	IRF6628TRPBFCT-ND†◆	3.39	2.21	1.69
	25	27	0.0025	220	2.8	IRF6628TRPBFTR-ND‡◆ ***NEW!***		5529.60/4,800	
	25	32	0.0018	250	2.8	IRF6795MTR1PBFCT-ND†◆	2.98	2.55	2.09
	25	32	0.0018	250	2.8	IRF6795MTR1PBFTR-ND‡◆		1233.00/1,000	
	25	36	0.0014	300	2.8	IRF6797MTR1PBFCT-ND†◆	4.05	3.65	2.97
	25	36	0.0014	300	2.8	IRF6797MTR1PBFTR-ND‡◆		1890.00/1,000	
	25	38	0.00125	300	2.8	IRF6717MTR1PBFCT-ND†◆ ***NEW!***	3.26	2.79	2.28
	25	38	0.00125	300	2.8	IRF6717MTR1PBFTR-ND‡◆ ***NEW!***		1349.00/1,000	
	30	13	0.0073	110	2.2	IRF6722STR1PBFCT-ND†◆	2.00	1.71	1.40
	30	13	0.0073	110	2.2	IRF6722STR1PBFTR-ND‡◆		827.00/1,000	
	30	14	0.0062	120	2.1	IRF6617CT-ND†	2.62	2.25	1.84
	30	14	0.0062	120	2.1	IRF6617TR-ND‡		4176.00/4,800	
	30	16	0.0071	130	2.2	IRF6626CT-ND†	2.87	2.46	2.01
	30	16	0.0071	130	2.2	IRF6626TR-ND‡		4641.60/4,800	
	30	16	0.0052	130	2.2	IRF6626TR1CT-ND†	3.00	2.00	1.60
	30	16	0.0052	130	2.2	IRF6626TR1TR-ND‡		1400.00/1,000	
	30	16	0.0052	130	2.2	IRF6626TR1PBFCT-ND†◆	2.59	2.34	1.90
	30	16	0.0052	130	2.2	IRF6626TRPBFCT-ND†◆	2.87	2.46	2.01
	30	24	0.0034	190	2.8	IRF6612TR1PBFCT-ND†◆	3.24	2.92	2.38
	30	27	0.0033	220	3.6	IRF6607CT-ND†	3.16	2.85	2.32
	30	30	0.002	210	2.8	IRF6618CT-ND†	3.34	3.01	2.46
	30	30	0.0023	240	2.8	IRF6678TR1PBFCT-ND†◆	3.39	3.06	2.49
	30	30	0.003	240	2.8	IRF6678CT-ND†	3.24	2.92	2.38
	30	30	0.003	240	2.8	IRF6678TR-ND‡		7651.20/4,800	
	30	32	0.0034	220	2.8	IRF6611CT-ND†	2.82	2.55	2.08
	30	32	0.0034	220	2.8	IRF6611TR-ND‡		6672.00/4,800	

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

International
IOR Rectifier

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) Max. (Ω)	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
11A	30	32	0.0026	220	3.9	IRF6611TR1PBFCT-ND†◆	3.42	3.08	2.51
	30	32	0.0018	250	2.8	IRF6635TR1PBFCT-ND†◆	4.26	3.84	3.13
	30	32	0.0018	250	2.8	IRF6635TR1PBFTR-ND‡◆	1988.00/1,000		
	30	32	0.0017	250	2.8	IRF6726MTR1PBFCT-ND†◆	3.21	2.89	2.36
	30	32	0.0017	250	2.8	IRF6726MTR1PBFTR-ND‡◆	1498.00/1,000		
	30	31	0.0018	250	2.8	IRF6729MTR1PBFCT-ND†◆ ***NEW!***	3.45	3.11	2.53
	30	31	0.0018	250	2.8	IRF6729MTR1PBFTR-ND‡◆ ***NEW!***	1610.00/1,000		
11B	20	16	0.0056	130	2.3	IRF6633ATR1PBFCT-ND†◆	2.60	2.24	1.83
	20	16	0.0056	130	2.3	IRF6633ATR1PBFTR-ND‡◆	1079.00/1,000		
	20	30	0.0022	240	2.8	IRF6619TR1CT-ND†	2.85	2.57	2.09
	20	30	0.0022	240	2.8	IRF6619TR1TR-ND‡	1540.00/1,000		
	25	29	0.0021	234	2.8	IRF6714MTR1PBFCT-ND†◆	3.05	2.61	2.14
	25	29	0.0021	234	2.8	IRF6714MTR1PBFTR-ND‡◆	1262.00/1,000		
	25	39	0.0016	320	3.6	IRF6716MTR1PBFCT-ND†◆	3.12	2.67	2.19
	25	39	0.0016	320	3.6	IRF6716MTR1PBFTR-ND‡◆	1291.00/1,000		
	30	12	0.0093	96	2.2	IRF6621TR1PBFCT-ND†◆	2.80	2.40	1.96
	30	12	0.0093	96	2.2	IRF6621TR1PBFTR-ND‡◆	1160.00/1,000		
	30	12	0.0093	96	2.2	IRF6621TRPBFCT-ND†◆	2.29	1.97	1.61
	30	13	0.009	100	2.1	IRF6608CT-ND†	2.47	2.13	1.74
	30	13	0.009	100	2.1	IRF6608TR-ND‡	5116.80/4,800		
	30	13	0.0083	100	2.2	IRF6631TR1PBFCT-ND†◆	1.61	1.39	1.13
	30	13	0.0083	100	2.2	IRF6631TRPBFCT-ND†◆	1.61	1.39	1.13
	30	13	0.0077	110	2.3	IRF6722MTR1PBFCT-ND†◆	2.17	1.86	1.52
	30	13	0.0077	110	2.3	IRF6722MTR1PBFTR-ND‡◆	899.00/1,000		
	30	14	0.0082	110	2.3	IRF6637TR1CT-ND†	2.90	2.49	2.03
	30	14	0.0082	110	2.3	IRF6637TR1PBFCT-ND†◆	3.36	2.88	2.36
	30	27	0.0026	220	3.9	IRF6611TR1TR-ND‡	1596.00/1,000		
	30	30	0.0023	240	2.8	IRF6678TR1CT-ND†	3.39	3.06	2.49
	30	32	0.0017	260	2.8	IRF6727MTR1PBFCT-ND†◆	3.15	2.84	2.31
	30	32	0.0017	260	2.8	IRF6727MTR1PBFTR-ND‡◆	1470.00/1,000		
	40	23	0.0041	180	2.8	IRF6613TR1PBFCT-ND†◆	3.90	3.51	2.86
	60	13.4	0.011	134	3.6	IRF6674TR1PBFCT-ND†◆	2.98	2.55	2.09
	60	13.4	0.011	134	3.6	IRF6674TR1PBFTR-ND‡◆	1233.00/1,000		
	60	86	0.0055	260	89	IRF6648TR-ND‡◆	1806.00/1,000		
	60	86	0.0055	260	2.8	IRF6648TR1PBFCT-ND†◆	3.87	3.49	2.84
	60	86	0.0055	260	2.8	IRF6648TR1PBFTR-ND‡◆	1806.00/1,000		
	60	86	0.0055	260	2.8	IRF6648TRPBFCT-ND†◆	3.87	3.49	2.84
	60	86	0.0055	260	2.8	IRF6648TRPBFTR-ND‡◆	7896.00/4,800		
	80	12	0.0076	96	2.8	IRF6646TR1TR-ND‡	2016.00/1,000		
	80	12	0.0076	96	2.8	IRF6646TR1PBFCT-ND†◆	4.32	3.89	3.17
	80	12	0.0076	96	2.8	IRF6646TR1PBFTR-ND‡◆	2016.00/1,000		
	80	55	0.012	170	2.8	IRF6668TRPBFCT-ND†◆	3.05	2.61	2.14
	80	55	0.012	170	2.8	IRF6668TRPBFTR-ND‡◆	5428.80/4,800		
	100	4.2	0.053	34	2.2	IRF6655TRPBFCT-ND†◆	2.73	2.34	1.92
	100	4.2	0.053	34	2.2	IRF6655TRPBFTR-ND‡◆	4867.20/4,800		
	100	8.3	0.0175	66	2.8	IRF6662TRPBFCT-ND†◆	2.87	2.46	2.01
	100	10.3	0.0103	82	2.8	IRF6644TR1PBFCT-ND†◆	4.14	3.73	3.04
	100	10.3	0.0103	82	2.8	IRF6644TR1PBFTR-ND‡◆	1932.00/1,000		
	100	10.3	0.0103	82	2.8	IRF6644TRPBFCT-ND†◆	3.96	3.57	2.91
	100	10.3	0.0103	82	2.8	IRF6644TRPBFTR-ND‡◆	8078.40/4,800		
	200	4.6	0.0599	37	2.8	IRF6641TRPBFCT-ND†◆	3.93	3.54	2.89
	200	4.6	0.0599	37	2.8	IRF6641TRPBFTR-ND‡◆	8016.00/4,800		
	200	4.6	0.0599	37	2.8	IRF6641TR1PBFCT-ND†◆	3.39	3.06	2.49
11C	20	15	0.0046	120	2.2	IRF6610TR1CT-ND†	2.22	1.91	1.56
	20	15	0.0046	120	2.2	IRF6610TR1TR-ND‡	1066.00/1,000		
	25	15	0.0089	120	2.2	IRF6622TR1PBFCT-ND†◆	1.86	1.59	1.30
	25	15	0.0089	120	2.2	IRF6622TR1PBFTR-ND‡◆	769.00/1,000		
	25	15	0.0089	120	2.2	IRF6622TRPBFCT-ND†◆	1.86	1.59	1.30
	25	15	0.0089	120	2.2	IRF6622TRPBFTR-ND‡◆	3307.20/4,800		
	25	17	0.0049	130	2.2	IRF6712STR1PBFCT-ND†◆	1.44	1.28	1.01
	25	17	0.0049	130	2.2	IRF6712STR1PBFTR-ND‡◆	615.00/1,000		
	25	22	0.0030	170	2.2	IRF6713STR1PBFCT-ND†◆	2.98	2.55	2.09
	25	22	0.0030	170	2.2	IRF6713STR1PBFTR-ND‡◆	1233.001,000		
	25	34	0.0016	270	2.8	IRF6715MTR1PBFCT-ND†◆	2.98	2.55	2.09
	25	34	0.0016	270	2.8	IRF6715MTR1PBFTR-ND‡◆	1233.00/1,000		
	30	12	0.0115	92	2.3	IRF6604CT-ND†	2.47	2.13	1.74
	30	12	0.0115	92	2.3	IRF6604TR-ND‡	5116.80/4,800		
	30	12	0.0093	96	2.2	IRF6621TR1CT-ND†	2.41	2.07	1.69
	30	12	0.0093	96	2.2	IRF6621TR1TR-ND‡	1160.00/1,000		
	30	14	0.0073	110	2.2	IRF6721STR1PBFCT-ND†◆	1.93	1.65	1.35
	30	14	0.0073	110	2.2	IRF6721STR1PBFTR-ND‡◆	798.00/1,000		
	30	14	0.0082	110	2.3	IRF6637TRPBFCT-ND†◆	2.75	2.36	1.93
	30	27	0.0025	212	2.8	IRF6724MTR1PBFCT-ND†◆	3.27	2.95	2.40
	30	27	0.0025	212	2.8	IRF6724MTR1PBFTR-ND‡◆	1526.00/1,000		
	30	28	0.0022	220	2.8	IRF6725MTR1PBFCT-ND†◆	3.01	2.58	2.11
	30	28	0.0022	220	2.8	IRF6725MTR1PBFTR-ND‡◆	1247.00/1,000		
11D	25	12	0.0119	100	1.8	IRF6710S2TR1PBFCT-ND†◆	2.31	1.98	1.62
	25	12	0.0119	100	1.8	IRF6710S2TR1PBFTR-ND‡◆	957.00/1,000		
	30	11	0.0080	92	1.7	IRF6720S2TR1PBFCT-ND†◆	2.31	1.98	1.62
	30	11	0.0080	92	1.7	IRF6720S2TR1PBFTR-ND‡◆	957.00/1,000		
11E	150	4.9	0.056	39	89	IRF6775MTR1PBFCT-ND†◆	3.08	2.64	2.16
	150	4.9	0.056	39	89	IRF6775MTR1PBFTR-ND‡◆	1276.00/1,000		
	200	3.4	0.100	27	57	IRF6785MTR1PBFCT-ND†◆	3.08	2.64	2.16
	200	3.4	0.100	27	57	IRF6785MTR1PBFTR-ND‡◆	1276.00/1,000		
11F	100	4.1	0.062	58	30	IRF7665S2TR1PBFCT-ND†◆ ***NEW!***	3.26	2.79	2.28
	100	4.1	0.062	58	30	IRF7665S2TR1PBFTR-ND‡◆ ***NEW!***	1349.00/1,000		
11G	25	61	0.0070	490	83	IRF6718L2TR1PBFCT-ND†◆ ***NEW!***	5.45	3.73	2.97
	25	61	0.0070	490	83	IRF6718L2TR1PBFTR-ND‡◆ ***NEW!***	2321.55/1,000		
	40	375	0.001	1070	3.8	IRF7739L2TR1PBFCT-ND†◆ ***NEW!***	5.59	5.03	4.10
	40	375	0.001	1070	3.8	IRF7739L2TR1PBFTR-ND‡◆ ***NEW!***	2608.00/1,000		
	60	375	0.0015	800	3.3	IRF7749L2TR1PBFCT-ND†◆ ***NEW!***	5.39	4.85	3.95
	60	375	0.0015	800	3.3	IRF7749L2TR1PBFTR-ND‡◆ ***NEW!***	2513.00/1,000		
	75	375	0.0023	640	3.3	IRF7759L2TR1PBFCT-ND†◆ ***NEW!***	5.49	4.94	4.03
	75	375	0.0023	640	3.3	IRF7759L2TR1PBFTR-ND‡◆ ***NEW!***	2561.00/1,000		
	100	375	0.0035	500	3.3	IRF7769L2TR1PBFCT-ND†◆ ***NEW!***	5.44	4.90	3.99
	100	375	0.0035	500	3.3	IRF7769L2TR1PBFTR-ND‡◆ ***NEW!***	2538.00/1,000		
	150	375	0.011	270	3.3	IRF7779L2TR1PBFCT-ND†◆ ***NEW!***	5.55	5.00	4.07
	150	375	0.011	270	3.3	IRF7779L2TR1PBFTR-ND‡◆ ***NEW!***	2589.00/1,000		
	250	375	0.038	140	4.3	IRF7799L2TR1PBFCT-ND†◆ ***NEW!***	5.73	5.16	4.21
	250	375	0.038	140	4.3	IRF7799L2TR1PBFTR-ND‡◆ ***NEW!***	2675.00/1,000		

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) (Ω)	IDM (A)	Max. (W)	Digi-Key Part No.	Price Each 1	10	100
				Dual N- and P- Channel					
				Micro-8™ Logic Level — RoHS Compliant					
5	30/-30	2.7/-2.0	0.11/-0.2	21/-16	1.25	IRF7509TRPBFCT-ND†	.81	.66	.49
	30/-30	2.7/-2.0	0.11/-0.2	21/-16	1.25	IRF7509TRPBFTR-ND‡	916.00/4,000		
				SO-8 / SOIC-8 — RoHS Compliant					
6	25/-25	3.5/-2.3	0.10/ 0.25	14/-10	2	IRF7105PBF-ND	.82	.72	.56
	25/-25	3.5/-2.3	0.10/ 0.25	14/-10	2.0	IRF7105QTRPBFCT-ND†	1.18	.73	.54
	25/-25	3.5/-2.3	0.10/ 0.25	14/-10	2.0	IRF7105QTRPBFTR-ND‡	1540.13/4,000		
				SO-8 / SOIC-8 Logic Level					
6	20/-20	5.2/-4.3	0.05/-0.090	21/-17	2	IRF7307-ND	2.02	1.32	1.01
	20/-20	5.2/-4.3	0.05/-0.090	21/-17	2	IRF7307PBFCT-ND†◆	1.12	1.00	.80
	20/-20	5.2/-4.3	0.05/-0.090	21/-17	2	IRF7307PBFTR-ND‡◆	1648.00/4,000		
	20/-20	5.7/-4.7	0.050/0.090	21/-17	2.0	IRF7307QTRPBFCT-ND†◆	1.59	.98	.72
	20/-20	5.7/-4.7	0.050/0.090	21/-17	2.0	IRF7307QTRPBFTR-ND‡◆	2067.17/4,000		
	25/-25	3.5/-2.3	.10/.25	14/-10	2.0	IRF7105PBFCT-ND†◆	.90	.78	.62
	25/-25	3.5/-2.3	.10/.25	14/-10	2.0	IRF7105PBFTR-ND‡◆	1188.00/4,000		
	30/-30	4.0/-3.0	0.05/-0.10	16/-12	1.4	IRF7309PBFCT-ND†◆	1.01	.91	.72
	30/-30	4.0/-3.0	0.05/-0.10	16/-12	1.4	IRF7309PBFTR-ND‡◆	1488.00/4,000		
	30/-30	7.3/-5.3	0.029/-0.058	30/-30	2.5	IRF7389PBFCT-ND†◆	1.19	1.07	.85
	30/-30	7.3/-5.3	0.029/-0.058	30/-30	2.5	IRF7389PBFTR-ND‡◆	1748.00/4,000		
	30/-30	5.8/-4.3	0.045/-0.090	46/-34	2.5	IRF7379PBFTR-ND‡◆	1740.00/4,000		
	30/-30	5.8/-4.3	0.045/-0.090	46/-34	2.5	IRF7379QTRPBFCT-ND†◆	1.25	.78	.57
	55/-55	4.7/-3.4	0.043/-0.056	38/-27	2	IRF7343PBFCT-ND†◆	1.08	.94	.74
	55/-55	4.7/-3.4	0.043/-0.056	38/-27	2	IRF7343PBFTR-ND‡◆	1428.00/4,000		

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Photovoltaic Isolators

The Photovoltaic Isolator (PVI) generates an electrically isolated DC voltage upon receipt of a DC input signal. The PVI is capable of directly driving gates of power MOSFETs or IGBTs. **Features:** • Isolated voltage source • Monolithic construction • Up to 8μA output • Single or Dual output • Solid-state reliability • Operating Temperature Range: -40 ~ 85°C **Applications:** • Load distribution • Industrial controls • Current-to-Voltage conversion • Custom solid-state relay

Input Circuit			Output Circuit					Price Each		
Vf (led)	Imin. (mA)	Imax. (mA)	Vout (DC)	Imin. (μA)	Ton/Toff Max.	Package	Digi-Key Part No.	1	25	100
1.4	2.0	50	8.0	10	300/220μs	8-Pin Gullwing	PVI1050NS-TPBFCT-ND†	7.47	6.11	5.48
1.4	2.0	50	8.0	10	300/220μs	8-Pin Gullwing	PVI1050NS-TPBFTR-ND‡	2801.25/750		

† Cut Tape ‡ Tape and Reel

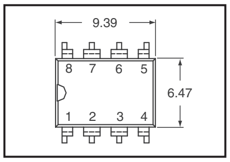

Diodes

Fig.	Package	Forward Current I_F (mA)	Peak Inverse Voltage P_{INV} (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
				HBAT Series						
1	SOT-23	220	30	516-1872-ND†	.62	4.62	35.75	—	—	HBAT-5402-BLKG
2	SOT-323	430	30	516-1785-1-ND	.67	5.04	39.60	516-1785-2-ND	180.00/M	HBAT-540C-TR1G
				HSMP Series						
1	SOT-23	1.0	100	516-1902-ND†	.90	7.00	54.00	—	—	HSMP-3810-BLKG
	SOT-23	1.0	100	516-1798-1-ND	.90	7.00	60.00	516-1798-2-ND	280.00/M	HSMP-3810-TR1G
	SOT-23	1.0	100	516-1799-1-ND	1.28	10.88	92.80	516-1799-2-ND	432.00/M	HSMP-3812-TR1G
	SOT-23	1.0	100	516-1903-ND†	1.20	10.40	80.00	—	—	HSMP-3814-BLKG
	SOT-23	1.0	100	516-1800-1-ND	1.28	10.88	92.80	516-1800-2-ND	432.00/M	HSMP-3814-TR1G
	SOT-23	1.0	50	516-1904-ND†	.73	5.46	42.25	—	—	HSMP-3820-BLKG
	SOT-23	1.0	50	516-1801-1-ND	.73	5.46	42.90	516-1801-2-ND	195.00/M	HSMP-3820-TR1G
	SOT-23	1.0	50	516-1905-ND†	.86	6.65	51.30	—	—	HSMP-3822-BLKG
	SOT-23	1.0	50	516-1802-1-ND	.86	6.65	57.00	516-1802-2-ND	266.00/M	HSMP-3822-TR1G
	SOT-23	1.0	50	516-1906-ND†	.86	6.65	51.30	—	—	HSMP-3824-BLKG
	SOT-23	1.0	100	516-1803-1-ND	.72	5.60	48.00	—	—	HSMP-3890-TR1G
	SOT-23	1.0	100	516-1908-ND†	1.08	8.40	64.80	—	—	HSMP-3892-BLKG
	SOT-23	1.0	100	516-1804-1-ND	1.08	8.40	72.00	516-1804-2-ND	336.00/M	HSMP-3892-TR1G
	SOT-23	1.0	50	516-1909-ND†	1.08	8.40	64.80	—	—	HSMP-4820-BLKG
	SOT-23	1.0	50	516-1806-1-ND	1.08	8.40	72.00	516-1806-2-ND	336.00/M	HSMP-4820-TR1G
2	SOT-323	1.0	100	516-1805-1-ND	1.04	8.84	75.40	516-1805-2-ND	351.00/M	HSMP-389C-TR1G
	SOT-323	1.0	50	516-1910-ND†	.98	8.45	65.00	—	—	HSMP-482B-BLKG
3	SOT-25	1.0	50	516-1907-ND†	1.69	14.63	112.50	—	—	HSMP-3866-BLKG
				HSMS Series						
1	SOT-23	350	15	516-1911-ND†	.67	5.04	39.00	—	—	HSMS-2702-BLKG
	SOT-23	1.0	70	516-1912-ND†	.68	5.25	40.50	—	—	HSMS-2800-BLKG
	SOT-23	1.0	70	516-1809-1-ND	.68	5.25	45.00	516-1809-2-ND	210.00/M	HSMS-2800-TR1G
	SOT-23	1.0	70	516-1913-ND†	.99	7.70	59.40	—	—	HSMS-2802-BLKG
	SOT-23	1.0	70	516-1810-1-ND	.99	7.70	66.00	516-1810-2-ND	308.00/M	HSMS-2802-TR1G
	SOT-23	1.0	70	516-1914-ND†	.99	7.70	59.40	—	—	HSMS-2804-BLKG
	SOT-23	1.0	70	516-1811-1-ND	.99	7.70	66.00	516-1811-2-ND	308.00/M	HSMS-2804-TR1G
	SOT-23	1.0	20	516-1916-ND†	.99	7.70	59.40	—	—	HSMS-2810-BLKG
	SOT-23	1.0	20	516-1813-1-ND	.99	7.70	66.00	516-1813-2-ND	308.00/M	HSMS-2810-TR1G
	SOT-23	1.0	20	516-1917-ND†	1.28	11.05	85.00	—	—	HSMS-2812-BLKG
	SOT-23	1.0	20	516-1814-1-ND	1.36	11.56	98.60	516-1814-2-ND	459.00/M	HSMS-2812-TR1G
	SOT-23	1.0	20	516-1918-ND†	1.28	11.05	85.00	—	—	HSMS-2814-BLKG
	SOT-23	1.0	20	516-1815-1-ND	1.36	11.56	98.60	516-1815-2-ND	459.00/M	HSMS-2814-TR1G
	SOT-23	1.0	15	516-1922-ND†	.72	5.60	43.20	—	—	HSMS-2820-BLKG
	SOT-23	1.0	15	516-1817-1-ND	.72	5.60	48.00	516-1817-2-ND	224.00/M	HSMS-2820-TR1G
	SOT-23	1.0	15	516-1923-ND†	1.08	8.40	64.80	—	—	HSMS-2822-BLKG
	SOT-23	1.0	15	516-1818-1-ND	1.08	8.40	72.00	516-1818-2-ND	336.00/M	HSMS-2822-TR1G
	SOT-23	1.0	15	516-1924-ND†	1.08	8.40	64.80	—	—	HSMS-2823-BLKG
	SOT-23	1.0	15	516-1925-ND†	1.08	8.40	64.80	—	—	HSMS-2824-BLKG
	SOT-23	1.0	15	516-1819-1-ND	1.08	8.40	72.00	516-1819-2-ND	336.00/M	HSMS-2825-TR1G
	SOT-23	1.0	2.0	516-1932-ND†	1.65	14.30	110.00	—	—	HSMS-2852-BLKG
	SOT-23	1.0	4.0	516-1934-ND†	.98	8.45	65.00	—	—	HSMS-2860-BLKG
	SOT-23	1.0	4.0	516-1935-ND†	1.31	11.38	87.50	—	—	HSMS-2862-BLKG
	SOT-23	1.0	4.0	516-1941-ND†	1.69	14.63	112.50	—	—	HSMS-8101-BLKG
	SOT-23	1.0	4.0	516-1823-1-ND	1.80	15.30	130.50	516-1823-2-ND	607.50/M	HSMS-8101-TR1G
	SOT-23	1.0	4.0	516-1942-ND†	1.66	15.60	124.80	—	—	HSMS-8202-BLKG
2	SOT-323	1.0	20	516-1921-ND†	1.35	11.70	90.00	—	—	HSMS-281C-BLKG
	SOT-323	1.0	15	516-1927-ND†	.81	6.30	48.60	—	—	HSMS-282B-BLKG
	SOT-323	1.0	15	516-1928-ND†	.98	8.45	65.00	—	—	HSMS-282C-BLKG
	SOT-323	1.0	15	516-1820-1-ND	1.04	8.84	75.40	516-1820-2-ND	351.00/M	HSMS-282C-TR1G
	SOT-323	1.0	4.0	516-1936-ND†	1.05	9.10	70.00	—	—	HSMS-286B-BLKG
	SOT-323	1.0	4.0	516-1937-ND†	1.43	12.35	95.00	—	—	HSMS-286C-BLKG
	SOT-323	1.0	4.0	516-1822-1-ND	1.52	12.92	110.20	516-1822-2-ND	513.00/M	HSMS-286C-TR1G
	SOT-323	1.0	4.0	516-1938-ND†	1.43	12.35	95.00	—	—	HSMS-286K-BLKG
4	SOD-523	1.0	4.0	516-1940-ND†	.68	5.25	40.50	—	—	HSMS-286Y-BLKG
5	SOT-143	1.0	70	516-1915-ND†	.99	7.70	59.40	—	—	HSMS-2805-BLKG
	SOT-143	1.0	70	516-1812-1-ND	.99	7.70	66.00	516-1812-2-ND	308.00/M	HSMS-2805-TR1G
	SOT-143	1.0	20	516-1919-ND†	1.28	11.05	85.00	—	—	HSMS-2815-BLKG
	SOT-143	1.0	20	516-1816-1-ND	1.36	11.56	98.60	516-1816-2-ND	459.00/M	HSMS-2815-TR1G
	SOT-143	1.0	20	516-1920-ND†	1.98	18.60	148.80	—	—	HSMS-2818-BLKG
	SOT-143	1.0	15	516-1926-ND†	1.08	8.40	64.80	—	—	HSMS-2825-BLKG
	SOT-143	1.0	2.0	516-1931-ND†	.94	8.13	62.50	—	—	HSMS-2850-BLKG
	SOT-143	1.0	2.0	516-1821-1-ND	1.00	8.50	72.50	516-1821-2-ND	337.50/M	HSMS-2850-TR1G
	SOT-143	1.0	2.0	516-1933-ND†	1.65	14.30	110.00	—	—	HSMS-2855-BLKG
6	SOT-363	1.0	15	516-1929-ND†	.98	8.45	65.00	—	—	HSMS-282K-BLKG
	SOT-363	1.0	15	516-1930-ND†	1.60	15.00	120.00	—	—	HSMS-282P-BLKG
	SOT-363	1.0	4.0	516-1939-ND†	2.50	23.40	187.20	—	—	HSMS-286P-BLKG

† Bulk

Fig. 1

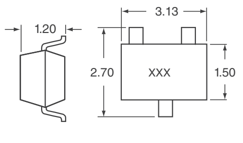

Fig. 2

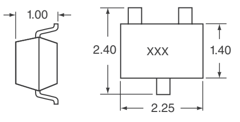

Fig. 3

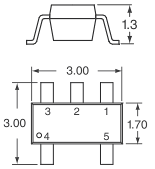

Fig. 4

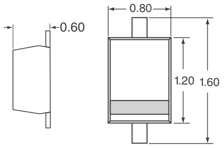

Fig. 5

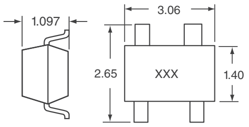

Fig. 6

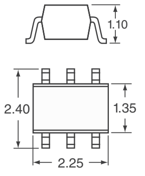

PIN Diodes

Fig.	Breakdown Voltage V_{BR} (V)	Capacitance C_T (pF)	Forward Voltage V_F (V) Max.	Digi-Key Part No.	Price Each 10	100	250	Avago Part No.
1	100	0.017	1.0	516-2112-ND	26.22	20.98	19.01	HPND-4005
2	4	0.10	0.375	516-2118-ND	16.95	12.62	10.82	HSCH-5330

Fig. 1

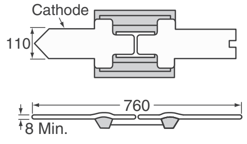

Fig. 2

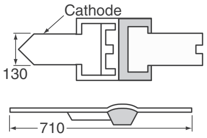

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Siliconix

N and P Channel Surface Mount HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions in mm

Fig. 1 — D²Pak

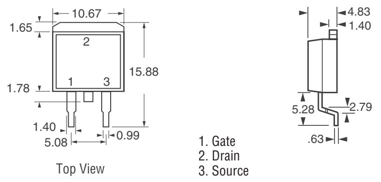

Fig. 2 — DPak

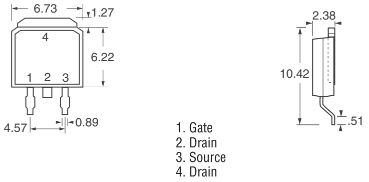

Fig. 3 — SOT-223

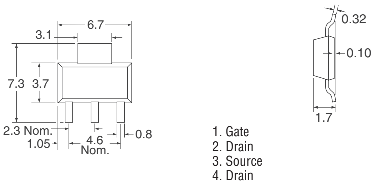

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
P-CHANNEL TYPES									
D2Pak									
1	-200	0.5	-11	-44	125	IRF9640S-ND	7.94	7.06	5.59
DPak (TO-252AA)									
2	-50	0.28	-9.9	—	—	IRFR9020-ND	4.41	3.68	3.09
	-50	0.28	-9.9	—	—	IRFR9020PBFCT-ND◆	2.17	1.68	1.53
	-50	0.28	-9.9	—	—	IRFR9020PBFTR-ND◆	1676.00/2,000		
	-50	0.5	-5.3	—	—	IRFR9010PBFCT-ND◆	1.89	1.37	1.28
	-50	0.5	-5.3	—	—	IRFR9010PBFTR-ND◆	1232.00/2,000		
	-60	0.28	-8.8	-35	42	IRFR9024-ND	4.47	3.73	3.13
	-60	0.28	-8.8	-35	42	IRFR9024PBFCT-ND◆	2.19	1.70	1.54
	-60	0.28	-8.8	-35	42	IRFR9024PBFTR-ND◆	1690.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014-ND	3.15	2.63	2.21
	-60	0.5	-5.1	-20	25	IRFR9014PBFCT-ND◆	1.67	1.32	1.19
	-60	0.5	-5.1	-20	25	IRFR9014PBFTR-ND◆	1232.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014TRL-ND	4032.00/3,000		
	-100	0.6	-5.6	-22	42	IRFR9120PBFCT-ND◆	2.00	1.54	1.40
	-100	0.6	-5.6	-22	42	IRFR9120PBFTR-ND◆	1540.00/2,000		
	-100	1.2	-3.1	-12	25	IRFR9110-ND	3.27	2.73	2.29
	-100	1.2	-3.1	-12	25	IRFR9110PBFCT-ND◆	1.75	1.38	1.25
	-100	1.2	-3.1	-12	25	IRFR9110PBFTR-ND◆	1288.00/2,000		
	-200	1.5	-3.6	-14	42	IRFR9220PBFCT-ND◆	2.59	2.00	1.82
	-200	1.5	-3.6	-14	42	IRFR9220PBFTR-ND◆	1998.00/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210PBFCT-ND◆	1.89	1.46	1.33
	-200	3	-1.9	-7.6	25	IRFR9210TR-ND	3276.80/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210PBFTR-ND◆	1458.00/2,000		
SOT-223									
3	-60	0.5	-1.8	-14	3.1	IRFL9014-ND	4.98	4.15	3.49
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFCT-ND◆	2.45	1.89	1.72
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFTR-ND◆	2362.50/2,500		
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFCT-ND◆	2.28	1.76	1.60
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFTR-ND◆	2195.00/2,500		
N-CHANNEL TYPES									
D2Pak — RoHS Compliant									
1	60	0.018	50	290	190	IRFZ48RSPBF-ND	3.64	2.93	2.67
	250	0.002	2.7	8	36	IRF614SPBF-ND	1.79	1.57	1.35
	250	1.1	4.4	—	50	IRF624SPBF-ND	2.18	1.91	1.64
	500	1.4	5	20	74	IRF830ASPBF-ND	2.38	1.93	1.74
	500	3	2.5	10	50	IRF820ASPBF-ND	1.70	1.37	1.20
	600	2.2	3.6	14	74	IRFBC30SPBF-ND	3.08	2.48	2.26
	800	3.0	4.1	16	125	IRFBE30SPBF-ND	3.22	2.59	2.36
D2Pak Logic Level									
1	100	0.54	5.6	18	43	IRL510S-ND	3.21	2.68	2.25
	200	0.4	9	36	74	IRL630SPBF-ND◆	2.64	2.13	1.92
	200	0.4	9	36	74	IRL630STRL-ND	2262.40/800		
DPak									
2	50	0.1	15	—	—	IRFR020-ND	3.87	3.23	2.71
	50	0.1	15	—	—	IRFR020PBFCT-ND◆	1.90	1.47	1.33
	50	0.1	15	—	—	IRFR020PBFTR-ND◆	1464.00/2,000		
	60	0.075	14	68	45	IRFR024PBFCT-ND◆	1.90	1.47	1.33
	60	0.075	14	68	45	IRFR024PBFTR-ND◆	1464.00/2,000		
	100	0.27	7.7	31	42	IRFR120TR-ND	2790.40/2,000		
2	100	0.54	4.3	17	25	IRFR110PBFCT-ND◆	1.52	1.20	1.08
	100	0.54	4.3	17	25	IRFR110PBFTR-ND◆	1120.00/2,000		
	200	0.8	4.8	19	42	IRFR220PBFCT-ND◆	1.73	1.37	1.23
	200	0.8	4.8	19	42	IRFR220PBFTR-ND◆	1272.00/2,000		
	200	1.5	2.6	10	25	IRFR210-ND	3.04	2.66	2.28
	200	1.5	2.6	10	25	IRFR210PBFCT-ND◆	1.52	1.20	1.08
	200	1.5	2.6	10	25	IRFR210PBFTR-ND◆	1120.00/2,000		
	250	1.1	3.8	15	42	IRFR224-ND	3.57	2.98	2.50
	250	1.1	3.8	15	42	IRFR224PBFCT-ND◆	1.75	1.35	1.23
	250	1.1	3.8	15	42	IRFR224PBFTR-ND◆	1350.00/2,000		
	400	1.8	3.1	12	42	IRFR320-ND	4.08	3.40	2.86
	400	1.8	3.1	12	42	IRFR320PBFCT-ND◆	2.01	1.55	1.41
	400	1.8	3.1	12	42	IRFR320PBFTR-ND◆	1548.00/2,000		
	400	3.6	1.7	6	25	IRFR310-ND	3.15	2.63	2.21
	400	3.6	1.7	6	25	IRFR310PBFCT-ND◆	1.68	1.33	1.20
	400	3.6	1.7	6	25	IRFR310PBFTR-ND◆	1238.00/2,000		
	500	3	2.4	8	42	IRFR420PBFCT-ND◆	1.86	1.44	1.30
	500	3	2.4	8	42	IRFR420PBFTR-ND◆	1432.00/2,000		
	600	4.4	2	8	42	IRFRC20-ND	4.14	3.45	2.90
	600	4.4	2	8	42	IRFRC20PBFCT-ND◆	2.03	1.57	1.43
	600	4.4	2	8	42	IRFRC20PBFTR-ND◆	1568.00/2,000		
	600	7	1.4	5.6	36	IRFR1N60APBFCT-ND◆	1.75	1.35	1.23
	600	7	1.4	5.6	36	IRFR1N60APBFTR-ND◆	1350.00/2,000		
DPak Logic Level									
2	60	0.2	7.7	31	25	IRLR014-ND	3.03	2.53	2.13
	60	0.2	7.7	31	25	IRLR014PBFCT-ND◆	1.61	1.27	1.15
	60	0.2	7.7	31	25	IRLR014PBFTR-ND◆	1184.00/2,000		
	60	0.1	14	56	42	IRLR024-ND	3.87	3.23	2.71
	60	0.1	14	56	42	IRLR024PBFCT-ND◆	1.90	1.47	1.33
	60	0.1	14	56	42	IRLR024PBFTR-ND◆	1464.00/2,000		
	100	0.27	7.7	31	42	IRLR120-ND	3.39	2.83	2.38
	100	0.27	7.7	31	42	IRLR120PBFCT-ND◆	2.05	1.48	1.39
	100	0.54	4.3	17	25	IRLR110-ND	3.06	2.55	2.15
	100	0.54	4.3	17	25	IRLR110PBFCT-ND◆	1.85	1.34	1.25
	100	0.54	4.3	17	25	IRLR110TRL-ND	3916.80/3,000		
SOT-223									
3	60	0.2	2.7	22	3.1	IRFL014-ND	3.72	3.10	2.61
	60	0.2	2.7	22	3.1	IRFL014PBFCT-ND◆	1.82	1.41	1.28
	60	0.2	2.7	22	3.1	IRFL014PBFTR-ND◆	1755.00/2,500		
	100	0.54	1.5	12	3.1	IRFL110PBFCT-ND◆	1.82	1.44	1.30
	100	0.54	1.5	12	3.1	IRFL110PBFTR-ND◆	1680.00/2,500		
	200	1.5	0.96	7.7	3.1	IRFL210-ND	3.72	3.10	2.61
	250	2	0.79	6.3	3.1	IRFL214-ND	3.99	3.33	2.80
	250	2	0.79	6.3	3.1	IRFL214PBFCT-ND◆	1.96	1.52	1.38
	250	2	0.79	6.3	3.1	IRFL214PBFTR-ND◆	1890.00/2,500		
SOT-223 Logic Level									
3	60	0.2	2.7	22	3.1	IRLL014-ND	3.93	3.28	2.76
	60	0.2	2.7	22	3.1	IRLL014PBFCT-ND◆	1.93	1.49	1.35
	60	0.2	2.7	22	3.1	IRLL014PBFTR-ND◆	1857.50/2,500		
	100	0.54	1.5	12	3.1	IRLL110-ND	3.72	3.10	2.61
	100	0.54	1.5	12	3.1	IRLL110PBFCT-ND◆	1.82	1.41	1.28
	100	0.54	1.5	12	3.1	IRLL110PBFTR-ND◆	1755.00/2,500		

◆ *RoHS Compliant*

N and P Channel HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions in mm

Fig. 1 — TO-220AB

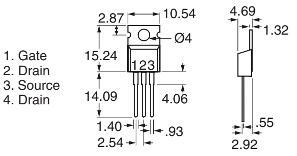

Fig. 2 — TO-220 FULLPAK

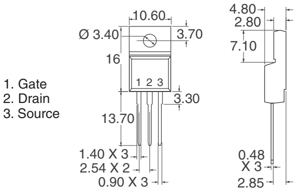

Fig. 3 — TO-247AC

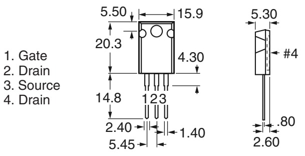

Fig. 4 — TO-262

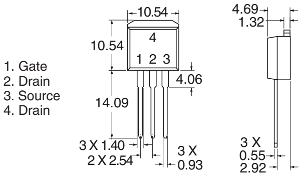

Fig. 5 — I-Pak

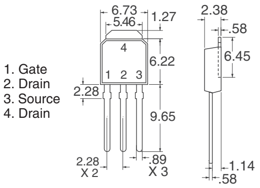

Fig. 6 — 4-Pin Dip (HEXDIP®)

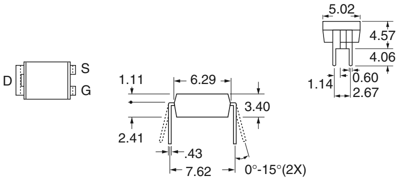

Fig. 7 — TO-220-5

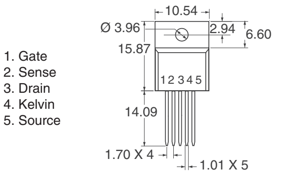

Fig. 8 — Super-247

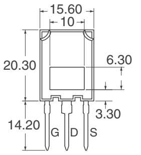

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
P-CHANNEL TYPES									
TO-220AB — RoHS Compliant									
1	-50	0.28	-9.7	—	—	IRF9Z20PBF-ND	1.91	1.55	1.39
	-50	0.14	-18	—	—	IRF9Z30PBF-ND	2.82	2.28	2.05
	-60	0.14	-18	-72	88	IRF9Z34PBF-ND	2.82	2.28	2.05
	-60	0.28	-11	-44	60	IRF9Z24PBF-ND	1.95	1.58	1.42
	-60	0.5	-6.7	-27	43	IRF9Z14PBF-ND	1.64	1.32	1.15
	-60	0.5	-6.7	-27	43	IRF9Z10PBF-ND	1.64	1.32	1.15
	-100	0.2	-19	-72	150	IRF9540PBF-ND	3.03	2.45	2.21
	-100	0.3	-12	-48	88	IRF9530PBF-ND	1.81	1.46	1.32
	-100	0.60	-6.8	-27	60	IRF9520PBF-ND	1.92	1.55	1.40
	-100	1.2	-4	-12	20	IRF9510PBF-ND	1.73	1.40	1.26
	-200	0.5	-11	-44	125	IRF9640PBF-ND	2.32	1.87	1.69
	-200	0.8	-6.5	-26	75	IRF9630PBF-ND	2.67	2.16	1.94
	-200	1.5	-3.5	-14	40	IRF9620PBF-ND	2.35	1.90	1.71
	-200	3	-1.8	-7	20	IRF9610PBF-ND	1.67	1.35	1.22
TO-220 FULLPAK — RoHS Compliant									
2	-60	0.14	-12	-48	42	IRFI9Z34GPBF-ND	3.10	2.50	2.25
	-60	0.28	-8.5	-34	37	IRFI9Z24GPBF-ND	2.66	2.15	1.94
	-60	0.5	-5.3	-21	27	IRFI9Z14GPBF-ND	2.17	1.75	1.58
	-100	0.117	-13	-44	48	IRFI9540GPBF-ND	3.64	2.93	2.67
	-100	0.6	-5.2	-21	37	IRFI9520GPBF-ND	2.48	2.00	1.80
	-200	0.5	-6.1	-24	40	IRFI9640GPBF-ND	3.33	2.68	2.44
	-200	1.5	-3	-12	30	IRFI9620GPBF-ND	2.48	2.00	1.80
	-200	3	-1.9	—	—	IRFI9610GPBF-ND	2.08	1.68	1.52
TO-247AC — RoHS Compliant									
3	-100	0.2	-21	—	180	IRFP9140PBF-ND	4.20	3.38	3.08
	-200	0.5	-12	—	150	IRFP9240PBF-ND	4.76	3.83	3.49
TO-262 — RoHS Compliant									
4	-60	0.5	-6.7	-27	3.7	IRF9Z14LPBF-ND	1.76	1.43	1.29
I-Pak — RoHS Compliant									
5	-50	0.28	-9.9	—	—	IRFU9020PBF-ND	1.89	1.53	1.38
	-50	0.5	-5.3	-21	25	IRFU9010PBF-ND	1.65	1.32	1.10
	-60	0.5	-5.1	-20	25	IRFU9014PBF-ND	1.54	1.24	1.08
	-200	1.5	-3.6	-14	42	IRFU9220PBF-ND	2.29	1.85	1.67
	-200	3	-1.9	-7.6	25	IRFU9210PBF-ND	1.73	1.52	1.30
	-250	3	-2.7	-11	50	IRFU9214PBF-ND	1.55	1.25	1.13
	-400	7	-1.8	-7.2	50	IRFU9310PBF-ND	1.56	1.26	1.10
4-Pin Dip (HEXDIP®)									
6	-50	0.28	-1.6	—	—	IRFD9020-ND	3.84	3.20	2.69
	-50	0.5	-1.1	—	—	IRFD9010PBF-ND◆	1.40	1.12	.98
	-60	0.28	-1.6	-13	1.3	IRFD9024PBF-ND◆	1.67	1.35	1.22
	-60	0.5	-1.1	-8.8	1.3	IRFD9014PBF-ND◆	1.40	1.12	.98
	-100	0.6	-1.0	-8	1.0	IRFD9120PBF-ND◆	1.55	1.25	1.13
	-100	1.2	-0.7	-3	1.0	IRFD9110PBF-ND◆	1.65	1.32	1.16
	-200	1.5	-0.6	-4.8	1.0	IRFD9220PBF-ND◆	2.76	2.23	2.01
N-CHANNEL TYPES									
TO-220AB									
1	50	0.2	10	29	20	IRFZ10PBF-ND◆	1.57	1.26	1.11
	50	0.1	15	60	40	IRFZ20PBF-ND◆	1.90	1.54	1.39
	50	0.028	35	—	—	IRFZ40PBF-ND◆	2.79	2.25	2.03
	50	0.05	30	—	—	IRFZ30PBF-ND◆	2.20	1.78	1.60
	60	0.018	50	290	190	IRFZ48RPBF-ND◆	3.10	2.50	2.25
	60	0.018	50	290	190	IRFZ48PBF-ND◆	3.20	2.80	2.40
	60	0.028	50	200	150	IRFZ44RPBF-ND◆	2.79	2.25	2.03
	60	0.028	50	200	150	IRFZ44PBF-ND◆	2.79	2.25	2.03
	60	0.1	17	68	60	IRFZ24PBF-ND◆	1.73	1.40	1.26
	60	0.2	10	40	36	IRFZ14PBF-ND◆	1.57	1.26	1.11
	100	0.077	28	110	150	IRF540PBF-ND◆	2.79	2.25	2.03
	100	0.16	14	56	88	IRF530PBF-ND◆	1.71	1.38	1.24
	100	0.27	9.2	37	60	IRF520PBF-ND◆	1.64	1.33	1.20
1	100	0.6	5.6	16	20	IRF510PBF-ND◆	1.51	1.21	1.06
	200	0.18	18	72	125	IRF640PBF-ND◆	2.79	2.25	2.03
	200	0.4	9.0	36	74	IRF630PBF-ND◆	1.55	1.25	1.13
	200	0.8	5.2	20	40	IRF620PBF-ND◆	1.30	1.04	.91
	200	1.5	3.3	10	20	IRF610PBF-ND◆	1.61	1.29	1.13
	250	1.1	4.4	14	50	IRF624PBF-ND◆	1.80	1.45	1.31
	250	2	2.7	8	36	IRF614PBF-ND◆	1.61	1.29	1.13
	250	0.28	14	56	125	IRF644PBF-ND◆	3.50	2.82	2.57
	400	0.55	10	40	125	IRF740PBF-ND◆	2.79	2.25	2.03
	400	0.55	10	40	125	IRF740APBF-ND◆	2.79	2.25	2.03
	400	0.55	10	40	125	IRF740LCPBF-ND◆	3.05	2.46	2.24
	400	1	5.5	22	74	IRF730PBF-ND◆	1.75	1.41	1.27
	400	1	5.5	22	74	IRF730APBF-ND◆	1.92	1.55	1.40
	400	1.8	3.3	12	40	IRF720PBF-ND◆	1.83	1.48	1.33
	400	3.6	2	6	20	IRF710PBF-ND◆	1.40	1.13	.99
	450	1.2	4.9	20	74	IRF734PBF-ND◆	2.05	1.80	1.54
	500	0.21	20	80	280	IRFB20N50KPBF-ND◆	5.26	4.23	3.86
	500	0.26	17	68	220	IRFB18N50KPBF-ND◆	7.00	5.63	5.13
	500	0.28	16	64	220	IRFB17N50LPBF-ND◆	6.05	4.86	4.43
	500	0.45	14	56	250	IRFB13N50APBF-ND◆	3.52	2.83	2.58
	500	0.52	11	44	170	IRFB11N50APBF-ND◆	3.03	2.45	2.20
	500	0.85	8	28	125	IRF840LCPBF-ND◆	3.14	2.52	2.30
	500	0.85	8	32	125	IRF840PBF-ND◆	2.79	2.25	2.03
	500	0.85	8	32	125	IRF840APBF-ND◆	3.00	2.43	2.19
	500	1.4	5	20	74	IRF830APBF-ND◆	2.17	1.75	1.58
	500	1.5	4.5	18	75	IRF830IR-ND	4.05	3.38	2.84
	500	1.5	4.5	18	75	IRF830PBF-ND◆	1.77	1.43	1.29
	500	3	2.5	10	40	IRF820PBF-ND◆	1.51	1.21	1.06
	500	3	2.5	10	50	IRF820APBF-ND◆	1.74	1.40	1.26
	600	0.75	9.2	37	170	IRFB9N60APBF-ND◆	3.08	2.49	2.24
	600	1.2	6.2	25	125	IRFBC40PBF-ND◆	2.49	2.01	1.81
	600	2.2	3.6	14	74	IRFBC30PBF-ND◆	3.10	2.50	2.25
	600	2.2	3.6	14	74	IRFBC30A-ND	7.05	5.88	4.94
	600	2.2	3.6	14	74	IRFBC30APBF-ND◆	3.07	2.48	2.23
	650	0.93	8.5	21	167	IRFB9N65APBF-ND◆	2.86	2.31	2.10
	800	3	4.1	—	125	IRFBE30PBF-ND◆	3.08	2.48	2.26
	800	6.5	1.8	—	54	IRFBE20PBF-ND◆	2.48	2.00	1.80
	900	8	1.7	—	54	IRFBF20PBF-ND◆	2.45	1.98	1.78
	1000	5	3.1	—	125	IRFBG30PBF-ND◆	2.91	2.35	2.12
	1000	11	1.4	—	54	IRFBG20PBF-ND◆	2.91	2.35	2.12
TO-220AB Logic Level — RoHS Compliant									
1	60	0.028	50	200	150	IRLZ44PBF-ND	3.08	2.49	2.24
	60	0.1	17	68	60	IRLZ24PBF-ND	1.65	1.33	1.20
	60	0.2	10	40	43	IRLZ14PBF-ND	1.64	1.32	1.15
	100	0.077	28	110	150	IRL540PBF-ND	2.73	2.20	1.98
	100	0.16	15	60	88	IRL530PBF-ND	1.70	1.37	1.20
	100	0.27	9.2	36	60	IRL520PBF-ND	1.57	1.26	1.11
	100	0.54	5.6	16	43	IRL510PBF-ND	1.36	1.09	.96
	200	0.18	17	68	125	IRL640PBF-ND	2.48	2.00	1.80
	200	0.4	9	36	74	IRL630PBF-ND	2.35	1.90	1.71
TO-220 FULLPAK — RoHS Compliant									
2	60	0.018	37	150	50	IRFIZ48GPBF-ND	3.32	2.68	2.44
	60	0.05	20	80	42	IRFIZ34GPBF-ND	3.10	2.50	2.25
	60	0.082	30	120	48	IRFIZ44GPBF-ND	3.01	2.64	2.26
	60	0.1	14	56	37	IRFIZ24GPBF-ND	1.79	1.45	1.30
	60	0.2	8	32	27	IRFIZ14GPBF-ND	1.66	1.33	1.16
	100	0.077	17	68	48	IRFI540GPBF-ND	3.64	2.93	2.67
	100	0.16	9.7	39	42	IRLI530GPBF-ND	1.93	1.56	1.41
	100	0.27	7.2	29	37	IRLI520GPBF-ND	2.01	1.63	1.47

◆ ***RoHS Compliant***

(Continued)

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
2	100	0.27	7.2	29	37	IRFI520GPBF-ND	1.60	1.30	1.17
	100	0.54	4.5	18	27	IRFI510GPBF-ND	2.17	1.75	1.58
	200	0.18	9.8	39	40	IRFI640GPBF-ND	3.64	2.93	2.67
	200	0.4	5.9	24	35	IRFI630GPBF-ND	3.10	2.50	2.25
	200	0.8	4.1	16	30	IRFI620GPBF-ND	1.92	1.55	1.40
	200	0.8	4.1	16	30	IRLI620GPBF-ND	2.01	1.63	1.47
	250	0.28	7.9	32	40	IRFI644GPBF-ND	3.64	2.93	2.67
	250	0.45	5.6	22	35	IRFI634GPBF-ND	2.33	1.89	1.70
	250	2	2.1	8.4	23	IRFI614GPBF-ND	1.60	1.40	1.20
	400	0.55	5.4	22	40	IRFI740GPBF-ND	2.95	2.37	2.16
	400	0.55	5.7	23	40	IRFI740GLCPBF-ND	3.92	3.15	2.87
	400	1	3.7	15	35	IRFI730GPBF-ND	2.16	1.75	1.57
	400	1.8	2.6	10	30	IRFI720GPBF-ND	2.48	2.00	1.80
	500	0. 52	6.6	44	60	IRFIB7N50APBF-ND	4.20	3.38	3.08
	500	0.85	4.6	18	40	IRFI840GPBF-ND	3.92	3.15	2.87
	500	0.85	4.5	18	40	IRFI840GLCPBF-ND	3.28	2.64	2.40
	500	1.5	3.1	12	35	IRFI830GPBF-ND	1.80	1.45	1.31
	600	1.2	3.5	14	40	IRFIBC40GPBF-ND	3.92	3.15	2.87
	600	2.2	2.5	10	35	IRFIBC30GPBF-ND	3.12	2.60	2.19
	650	0.93	5.1	21	60	IRFIB5N65APBF-ND	4.40	3.54	3.22
	800	3.0	2.1	8.4	35	IRFIBE30GPBF-ND	3.92	3.15	2.87
	800	6.5	1.4	5.6	30	IRFIBE20GPBF-ND	3.04	2.67	2.29
	900	3.7	1.9	7.6	35	IRFIBF30GPBF-ND	3.64	2.93	2.67
	900	8	1.2	4.8	30	IRFIBF20GPBF-ND	3.10	2.50	2.25

TO-220 FULLPAK Logic Level — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
2	60	0.2	8.0	32	27	IRLIZ14GPBF-ND	1.92	1.55	1.40
	60	0.028	30	120	48	IRLIZ44GPBF-ND	2.88	2.32	2.11
	60	0.05	20	80	42	IRLIZ34GPBF-ND	2.66	2.15	1.94
	200	0.18	9.9	40	40	IRLI640GPBF-ND	3.36	2.70	2.46
	200	0.4	6.2	25	35	IRLI630GPBF-ND	2.79	2.25	2.03

TO-220-5 Current Sense — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
7	250	0.45	8.1	32	74	IRC634PBF-ND	2.11	1.85	1.59

TO-247AC

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
3	60	0.009	70	520	300	IRFP064PBF-ND◆	6.75	5.54	5.00
	60	0.018	70	290	190	IRFP048PBF-ND◆	5.09	4.10	3.73
	60	0.018	70	290	190	IRFP048RPBF-ND◆	5.09	4.10	3.73
	100	0.077	31	120	180	IRFP140PBF-ND◆	4.17	3.36	3.06
	100	0.055	41	160	230	IRFP150PBF-ND◆	4.44	3.58	3.26
	200	0.055	46	180	280	IRFP260PBF-ND◆	6.70	5.39	4.91
	200	0.085	30	120	190	IRFP250PBF-ND◆	5.60	4.50	4.10
	200	0.18	20	—	150	IRFP240PBF-ND◆	4.54	3.65	3.33
	250	0.14	23	92	190	IRFP254PBF-ND◆	4.88	3.93	3.58
	250	0.28	15	—	150	IRFP244PBF-ND◆	5.35	4.30	3.92
	400	0.2	23	92	280	IRFP360PBF-ND◆	6.80	5.47	4.99
	400	0.2	23	92	280	IRFP360LCPBF-ND◆	12.27	10.07	9.09
	400	0.3	16	64	190	IRFP350PBF-ND◆	6.16	4.95	4.51
	400	0.3	16	64	190	IRFP350LCPBF-ND◆	6.50	5.33	4.81
	400	0.55	11	—	150	IRFP340PBF-ND◆	5.21	4.19	3.82
	500	0.135	32	130	460	IRFP32N50KPBF-ND◆	10.05	8.25	7.44
	500	0.15	31	124	460	IRFP31N50LPBF-ND◆	10.17	8.34	7.53
	500	0.19	23	92	370	IRFP23N50LPBF-ND◆	7.51	6.16	5.56
	500	0.23	22	88	277	IRFP22N50APBF-ND◆	7.25	5.95	5.37
	500	0.27	20	80	280	IRFP460APBF-ND◆	6.28	5.16	4.65
	500	0.27	20	80	280	IRFP460PBF-ND◆	7.03	5.77	5.20
	500	0.27	20	80	280	IRFP460LCPBF-ND◆	10.62	8.72	7.87
	500	0.27	20	80	280	IRFP460P-ND	6.75	6.00	4.75
	500	0.28	16	64	220	IRFP17N50LPBF-ND◆	7.25	5.95	5.37
	500	0.4	14	—	190	IRFP450IR-ND	11.31	10.06	7.97
	500	0.4	14	—	190	IRFP450PBF-ND◆	4.94	3.97	3.62
	500	0.4	14	56	190	IRFP450APBF-ND◆	4.84	3.89	3.55
	500	0.4	14	56	190	IRFP450LCPBF-ND◆	7.09	5.82	5.25
	500	0.6	11	44	180	IRFP448PBF-ND◆	5.60	4.50	4.10
	500	0.85	8.8	—	150	IRFP440PBF-ND◆	4.48	3.60	3.28
	600	0.18	27	110	500	IRFP27N60KPBF-ND◆	9.81	8.05	7.26
	600	0.21	26	100	470	IRFP26N60LPBF-ND◆	10.00	8.20	7.40
	600	0.24	22	88	370	IRFP22N60KPBF-ND◆	8.13	6.67	6.02
	600	0.27	21	84	330	IRFP21N60LPBF-ND◆	7.40	6.07	5.48
3	600	0.4	16	64	280	IRFPC60LCPBF-ND◆	8.57	7.03	6.34
	600	0.58	11	44	180	IRFPC50APBF-ND◆	6.44	5.18	4.72
	600	0.6	11	44	180	IRFPC50PBF-ND◆	6.44	5.18	4.72
	600	0.6	11	44	190	IRFPC50LCPBF-ND◆	6.75	6.00	4.75
	600	0.82	8.9	36	170	IRFPC48-ND	12.73	11.46	8.91
	600	1.2	6.8	27	150	IRFPC40PBF-ND◆	4.48	3.60	3.28
	800	1.2	7.8	—	190	IRFPE50PBF-ND◆	6.75	5.54	5.00
	800	3	4.1	16	125	IRFPF30PBF-ND◆	5.28	4.40	3.70
	900	1.6	6.7	27	190	IRFPF50PBF-ND◆	6.75	5.54	5.00
	900	2.5	4.7	19	150	IRFPF40PBF-ND◆	4.48	3.60	3.28
	1000	2	6.1	—	190	IRFPG50PBF-ND◆	8.25	6.77	6.11
	1000	3.5	4.3	17	150	IRFPG40PBF-ND◆	5.74	4.62	4.21

TO-262 — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
4	200	0.18	18	72	130	IRF640LPBF-ND	3.10	2.72	2.33
	200	1.5	3.3	10	36	IRF610LPBF-ND	1.73	1.40	1.26
	400	0.55	10	40	125	IRF740ALPBF-ND	3.10	2.50	2.25
	400	1.8	3.3	13	50	IRF720LPBF-ND	1.95	1.58	1.42
	500	0.55	11	44	190	IRFSL11N50APBF-ND	3.64	2.93	2.67
	500	1.4	4.5	20	3.1	IRF830LPBF-ND	2.38	1.93	1.74
	500	0.85	8.0	28	125	IRF840LCLPBF-ND	2.97	2.39	2.18
	500	3	2.5	8.0	50	IRF820LPBF-ND	1.89	1.66	1.42
	600	1.2	6.2	25	130	IRFBC40LPBF-ND	4.80	4.00	3.36
	600	2.2	3.6	14	74	IRFBC30ALPBF-ND	1.82	1.60	1.37
	600	4.4	2.2	8.0	50	IRFBC20LPBF-ND	2.91	2.35	2.12
	600	2.2	3.6	14	74	IRFBC30LPBF-ND	3.08	2.48	2.26
	800	3	4.1	16	125	IRFBE30LPBF-ND	2.94	2.58	2.21
	900	8	1.7	6.8	54	IRFBF20LPBF-ND	2.48	2.00	1.80

TO-262 Logic Level — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
4	600	0.75	9.2	37	170	IRFSL9N60APBF-ND	2.88	2.32	2.11

I-Pak

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
5	50	0.1	15	—	—	IRFU020PBF-ND◆	1.55	1.25	1.13
	60	0.1	14	—	—	IRFU024PBF-ND◆	1.75	1.42	1.28
	60	0.2	7.7	—	—	IRFU014PBF-ND◆	1.40	1.12	.98
	100	0.27	7.7	31	42	IRFU120PBF-ND◆	1.54	1.24	1.08
	100	0.54	4.3	17	25	IRFU110PBF-ND◆	1.40	1.12	.98
	200	0.8	4.8	19	42	IRFU220PBF-ND◆	1.54	1.24	1.08
	200	1.5	2.6	10	25	IRFU210PBF-ND◆	1.40	1.12	.98
	400	1.8	3.1	12	42	IRFU320PBF-ND◆	1.67	1.35	1.22
	250	2.0	2.2	8.8	25	IRFU214PBF-ND◆	1.50	1.20	1.00
	400	3.6	1.7	6	25	IRFU310PBF-ND◆	1.61	1.29	1.08
	500	1.7	5.0	20	110	IRFU430APBF-ND◆	2.01	1.76	1.51
	500	3	2.4	8	42	IRFU420-ND	3.78	3.15	2.65
	250	1.1	3.8	15	42	IRFU224PBF-ND◆	1.58	1.26	1.11
	500	3	3.3	10	83	IRFU420APBF-ND◆	1.58	1.28	1.15
	600	0.007	1.4	5.6	36	IRFU1N60APBF-ND◆	1.58	1.26	1.11

I-Pak Logic Level — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
5	60	0.2	7.7	—	—	IRLU014PBF-ND◆	1.40	1.12	.98

Super-247 — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
8	500	0.087	46	180	540	IRFPS40N50LPBF-ND	13.20	11.10	10.20
	500	0.078	47	190	540	IRFPS43N50KPBF-ND	15.29	12.86	11.82
	500	0.13	36	144	446	IRFPS37N50APBF-ND	10.45	8.57	7.74
	600	0.11	40	160	570	IRFPS40N60KPBF-ND	19.80	16.65	15.30

4-Pin Dip (HEXDIP®) — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
6	50	0.2	1.7	—	—	IRFD010PBF-ND	1.40	1.12	.98
	50	—	2.4	—	—	IRFD020PBF-ND	1.71	1.38	1.24
	60	0.1	2.5	20	1.3	IRFD024PBF-ND	1.71	1.38	1.24
	60	0.2	1.7	14	1.3	IRFD014PBF-ND	1.40	1.12	.98
	100	0.27	1.3	10	1.3	IRFD123PBF-ND	1.50	1.20	1.00
	100	0.3	1.3	5.2	1.0	IRFD120PBF-ND	1.40	1.12	.98
	100	0.6	1.0	8.0	1.0	IRFD110PBF-ND	1.40	1.12	.98
	200	0.8	0.8	6.4	1.0	IRFD220PBF-ND	1.51	1.21	1.06
	200	1.5	0.6	2.5	1.0	IRFD210PBF-ND	1.40	1.12	.98
	250	1.1	0.63	5	1	IRFD224PBF-ND	1.61	1.29	1.08
	250	2	0.45	3.6	1	IRFD214PBF-ND	1.50	1.20	1.00
	400	1.8	0.49	3.9	1	IRFD320PBF-ND	1.86	1.50	1.35
	400	3.6	0.35	2.8	1	IRFD310PBF-ND	1.76	1.41	1.18
	500	3	0.46	3	1	IRFD420PBF-ND	1.92	1.68	1.44
	600	4.4	0.32	2.6	1	IRFDC20PBF-ND	2.26	1.83	1.65

4-Pin Dip (HEXDIP®) Logic Level — RoHS Compliant

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	25	100
6	60	0.1	2.5	20	1.3	IRLD024PBF-ND	1.95	1.58	1.42
	60	0.2	1.7	14	1.3	IRLD014PBF-ND	1.58	1.26	1.11
	100	0.27	1.3	10	1.3	IRLD120PBF-ND	1.75	1.42	1.28
	100	0.54	1	8	1.3	IRLD110PBF-ND	1.72	1.39	1.26

◆ *RoHS Compliant*

IGBT Transistors

Package	VCE	VCE (Sat) Max.	IC @ TC +25°C	Pulse Current ICM	Max. Power Dissipation	Delay Time (ns)		Digi-Key Part No.	Price Each		
						Td (on)	Td (off)		1	10	100
IMS-2	600	1.93	5.7	11	23	23	125	CPV362M4K-ND	42.55	39.68	34.50

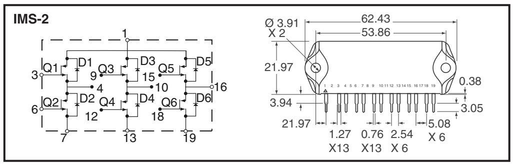

Schottky Rectifiers

SMB

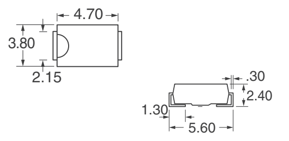

SMA

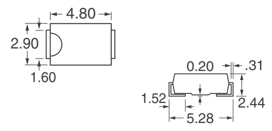

SMC

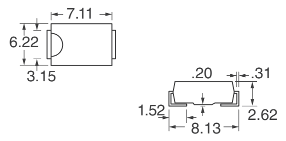

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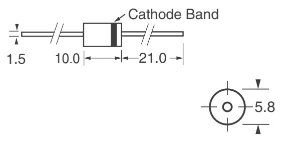

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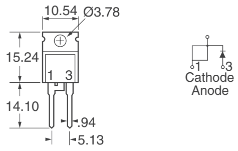

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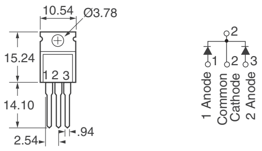

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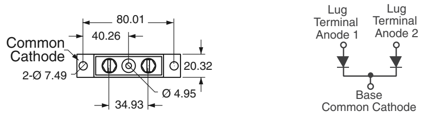

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
SMB								
1	15	0.34	140	-55 ~ 150	10BQ015PBFCT-ND◆	1.02	.89	.70
1	15	0.34	140	-55 ~ 150	10BQ015PBFTR-ND◆		1008.00/3,000	
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFCT-ND◆	.85	.74	.58
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFTR-ND◆		840.00/3,000	
1	30	0.30	430	-55 ~ 150	10BQ030PBFCT-ND◆	.82	.72	.57
1	30	0.30	430	-55 ~ 150	10BQ030PBFTR-ND◆		813.00/3,000	
1	40	0.53	430	-55 ~ 150	10BQ040PBFCT-ND◆	.77	.62	.47
1	40	0.53	430	-55 ~ 150	10BQ040PBFTR-ND◆		651.00/3,000	
1	60	0.57	700	-55 ~ 150	10BQ060PBFCT-ND◆	.66	.57	.45
1	60	0.57	700	-55 ~ 150	10BQ060PBFTR-ND◆		654.00/3,000	
1	100	0.78	780	-55 ~ 175	10BQ100PBFCT-ND◆	.96	.86	.69
1	100	0.78	780	-55 ~ 175	10BQ100PBFTR-ND◆		1062.00/3,000	
2	30	0.370	350	-55 ~ 150	20BQ030PBFCT-ND◆	.72	.63	.50
2	30	0.370	350	-55 ~ 150	20BQ030PBFTR-ND◆		714.00/3,000	
SMA — RoHS Compliant								
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFCT-ND	.71	.62	.49
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFTR-ND		1627.50/7,500	
3	40	0.42	330	-40 ~ 150	15MQ040NPBFCT-ND	.97	.84	.66
3	40	0.42	330	-40 ~ 150	15MQ040NPBFTR-ND		2227.50/7,500	
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFCT-ND	.71	.62	.49
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFTR-ND		1627.50/7,500	
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFCT-ND	.71	.62	.49
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFTR-ND		1627.50/7,500	
SMC								
3	15	0.35	650	-55 ~ 100	30BQ015PBFCT-ND◆	2.16	1.85	1.51
3	15	0.35	650	-55 ~ 100	30BQ015PBFTR-ND◆		2496.00/3,000	
3	40	0.51	2000	-55 ~ 150	30BQ040PBFCT-ND◆	1.79	1.61	1.28
3	40	0.51	2000	-55 ~ 150	30BQ040PBFTR-ND◆		1983.00/3,000	
3	60	0.58	1200	-55 ~ 150	30BQ060PBFCT-ND◆	1.33	1.19	.95
3	60	0.58	1200	-55 ~ 150	30BQ060PBFTR-ND◆		1470.00/3,000	
3	100	0.79	2100	-55 ~ 175	30BQ100PBFCT-ND◆	1.11	.99	.79
3	100	0.79	2100	-55 ~ 175	30BQ100PBFTR-ND◆		1221.00/3,000	
C-16 — RoHS Compliant								
3.3	40	0.55	470	-40 ~ 150	31DQ04-ND	.95	.85	.67
3	40	0.6	430	-40 ~ 150	MBR340IR-ND	.65	.57	.44
3	50	0.73	460	-40 ~ 150	MBR350-ND	.63	.56	.43
3.3	50	0.58	340	-40 ~ 150	31DQ05-ND	.92	.81	.63
3	60	0.73	460	-40 ~ 150	MBR360-ND	.62	.55	.43
3.3	60	0.58	340	-40 ~ 150	31DQ06-ND	1.03	.91	.72
3.3	90	0.85	210	-40 ~ 150	31DQ09TR-ND		468.00/1,200	
3.3	100	0.85	210	-40 ~ 150	31DQ10-ND	1.03	.91	.72
TO-220AC								
19	15	0.32	700	-55 ~ 100	19TQ015-ND	4.27	3.82	3.13
20	15	0.25	700	-55 ~ 125	20L15TPBF-ND◆	2.07	1.88	1.51
20	15	0.25	700	-55 ~ 125	STPS20L15DPBF-ND◆	1.88	1.70	1.37
6	35	0.53	690	-55 ~ 175	6TQ035PBF-ND◆	2.48	2.24	1.80
7.5	35	0.84	690	-65 ~ 150	MBR735PBF-ND◆	1.25	1.11	.88
10	35	0.49	1050	-55 ~ 175	10TQ035PBF-ND◆	2.39	2.16	1.74
15	35	0.50	990	-55 ~ 150	12TQ035PBF-ND◆	2.39	2.16	1.74
16	35	0.63	1060	-65 ~ 150	MBR1635PBF-ND◆	1.89	1.71	1.38
18	35	0.6	1800	-55 ~ 175	18TQ035-ND	2.80	2.50	2.05
18	35	0.6	1800	-55 ~ 175	18TQ035PBF-ND◆	2.48	2.24	1.80
20	35	0.51	1800	-55 ~ 150	20TQ035PBF-ND◆	2.60	2.36	1.89
6	40	0.53	690	-55 ~ 175	6TQ040PBF-ND◆	2.57	2.33	1.87
10	40	0.49	1050	-55 ~ 175	10TQ040PBF-ND◆	2.51	2.27	1.83
15	40	0.50	990	-55 ~ 150	12TQ040PBF-ND◆	2.54	2.30	1.85
18	40	0.53	1800	-55 ~ 175	18TQ040PBF-ND◆	2.64	2.38	1.92
20	40	0.51	1800	-55 ~ 150	20TQ040PBF-ND◆	2.76	2.50	2.01
7.5	45	0.57	690	-65 ~ 150	MBR745IR-ND	1.57	1.40	1.11
7.5	45	0.57	690	-65 ~ 150	MBR745PBF-ND◆	1.26	1.12	.88
10	45	0.57	1050	-65 ~ 150	MBR1045PBF-ND◆	1.48	1.32	1.04
15	45	0.50	990	-55 ~ 150	12TQ045PBF-ND◆	2.67	2.41	1.94
16	45	0.57	1800	-65 ~ 150	MBR1645PBF-ND◆	1.89	1.71	1.38
6	45	0.53	690	-55 ~ 175	6TQ045PBF-ND◆	2.76	2.50	2.01
10	45	0.57	1050	-55 ~ 175	10TQ045PBF-ND◆	2.64	2.38	1.92
18	45	0.6	1800	-55 ~ 175	18TQ045PBF-ND◆	2.64	2.38	1.92
20	45	0.57	1800	-65 ~ 150	20TQ045PBF-ND◆	2.88	2.61	2.10
8	60	0.72	850	-55 ~ 175	8TQ060PBF-ND◆	2.91	2.64	2.12
15	60	0.56	1000	-55 ~ 150	15TQ060PBF-ND◆	2.95	2.66	2.14
8	80	0.72	850	-55 ~ 175	8TQ080PBF-ND◆	3.04	2.71	2.23
8	100	0.58	850	-55 ~ 175	8TQ100PBF-ND◆	1.63	1.48	1.19
TO-220AB								
20	15	0.41	700	-55 ~ 125	40L15CTPBF-ND◆	3.93	3.51	2.88
20	15	0.25	700	-55 ~ 125	STPS40L15CTPBF-ND◆	2.90	2.62	2.11
20	20	0.34	1000	-55 ~ 150	47CTQ020PBF-ND◆	2.97	2.65	2.18
15	30	0.37	—	-55 ~ 150	STPS30L30CTPBF-ND◆	2.59	2.35	1.89
15	30	0.40	900	-55 ~ 150	32CTQ030-ND	3.82	3.41	2.80
15	30	0.40	900	-55 ~ 150	32CTQ030PBF-ND◆	3.05	2.73	2.24
15	30	0.37	1450	-55 ~ 150	30L30CTPBF-ND◆	2.59	2.35	1.89
30	30	0.44	1500	-65 ~ 150	62CTQ030PBF-ND◆	3.50	3.13	2.57
7.5	35	0.72	690	-65 ~ 150	MBR1535CTPBF-ND◆	1.57	1.43	1.15
10	35	0.57	1060	-65 ~ 150	MBR2035CTPBF-ND◆	1.88	1.71	1.37
6	35	0.53	690	-55 ~ 175	12CTQ035PBF-ND◆	2.26	2.05	1.65
7.5	35	0.51	810	-55 ~ 150	15CTQ035-ND	2.83	2.56	2.06
7.5	35	0.51	810	-55 ~ 150	15CTQ035PBF-ND◆	2.26	2.05	1.65
10	35	0.57	1060	-55 ~ 175	20CTQ035-ND	3.15	2.82	2.31
15	35	0.73	1060	-65 ~ 150	MBR2535CTPBF-ND◆	2.10	1.90	1.53
7.5	40	0.51	810	-55 ~ 150	15CTQ040PBF-ND◆	2.33	2.10	1.69
6	40	0.53	690	-55 ~ 175	12CTQ040PBF-ND◆	2.33	2.10	1.69
10	40	0.57	1060	-55 ~ 175	20CTQ040PBF-ND◆	2.95	2.64	2.16
15	40	0.56	1060	-55 ~ 175	30CTQ040PBF-ND◆	2.91	2.64	2.12
15	40	0.50	990	-55 ~ 150	25CTQ040PBF-ND◆	3.16	2.83	2.32
6	45	0.53	690	-55 ~ 175	12CTQ045PBF-ND◆	2.42	2.19	1.76
20	45	0.6	900	-65 ~ 150	MBR4045CTPBF-ND◆	2.25	2.04	1.64
7.5	45	0.57	690	-65 ~ 150	MBR1545CTPBF-ND◆	1.57	1.43	1.15
10	45	0.57	1060	-65 ~ 150	MBR2045CTIR-ND	2.37	2.14	1.72
10	45	0.57	1060	-65 ~ 150	MBR2045CTPBF-ND◆	1.89	1.71	1.38
15	45	0.73	1060	-65 ~ 150	MBR2545CTIR-ND	2.77	2.51	2.02
15	45	0.73	1060	-65 ~ 150	MBR2545CTPBF-ND◆	2.22	2.01	1.62
10	45	0.64	1060	-55 ~ 175	20CTQ045PBF-ND◆	2.79	2.52	2.03
15	45	0.50	990	-55 ~ 150	25CTQ045PBF-ND◆	3.50	3.13	2.57
15	45	0.62	1060	-55 ~ 175	30CTQ045PBF-ND◆	3.12	2.79	2.29
30	45	0.53	1500	-65 ~ 150	60CTQ045PBF-ND◆	4.87	4.35	3.57
30	45	0.57	2600	-65 ~ 175	61CTQ045PBF-ND◆	4.51	4.03	3.31
15	50	0.56	1000	-55 ~ 150	30CTQ050PBF-ND◆	3.19	2.85	2.34
8	60	0.58	850	-55 ~ 175	16CTQ060PBF-ND◆	2.30	2.08	1.67
15	60	0.62	1060	-55 ~ 150	30CTQ060PBF-ND◆	3.81	3.40	2.79
20	60	0.75	1000	-55 ~ 150	48CTQ060PBF-ND◆	3.30	2.95	2.42
8	80	0.72	850	-55 ~ 175	16CTQ080PBF-ND◆	3.95	3.53	2.90
15	80	0.67	850	-55 ~ 175	30CTQ080PBF-ND◆	2.32	2.10	1.69
20	100	0.81	850	-55 ~ 175	43CTQ100PBF-ND◆	3.08	2.78	2.24
8	100	0.72	850	-55 ~ 175	16CTQ100PBF-ND◆	2.46	2.23	1.79
15	100	0.67	850	-55 ~ 175	30CTQ100PBF-ND◆	2.32	2.10	1.69
30	100	0.69	1500	-65 ~ 175	63CTQ100PBF-ND◆	6.12	5.47	4.48
5	150	0.73	620	-55 ~ 175	10CTQ150PBF-ND◆	2.13	1.93	1.55
10	150	0.66	1030	-55 ~ 175	20CTQ150PBF-ND◆	2.54	2.30	1.85

◆ ***RoHS Compliant***

(Continued)

Schottky Rectifiers *(Cont.)*

TO-247AC

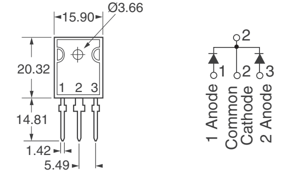

TO-249AA

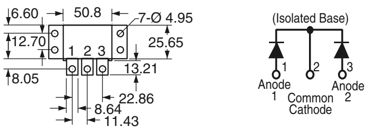

TO-262

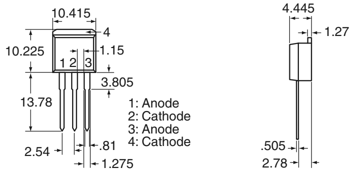

DO-41/DO-204AL

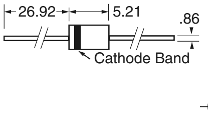

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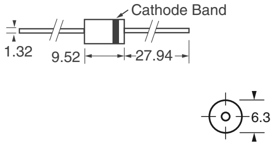

D-60

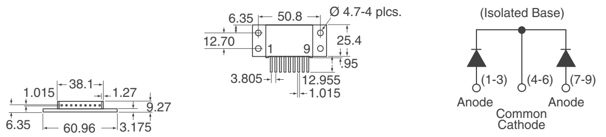

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
						1	10	100
20	150	0.71	150	-55 ~ 175	40CTQ150PBF-ND◆	3.08	2.78	2.24
30	150	0.69	710	-55 ~ 175	60CTQ150PBF-ND◆	3.92	3.50	2.87
					TO-244AB — RoHS Compliant			
400	15	0.47	4000	-55 ~ 175	445CNQ015-ND	41.26	38.48	33.46
200	35	0.58	16000	-55 ~ 175	201CNQ035-ND	38.52	35.92	31.24
300	35	0.59	16000	-55 ~ 175	301CNQ035-ND	38.20	35.63	30.98
100	40	0.49	26000	-55 ~ 150	200CNQ040-ND	38.20	35.63	30.98
200	40	0.58	16000	-55 ~ 175	201CNQ040-ND	38.52	35.92	31.24
300	40	0.59	16000	-55 ~ 175	301CNQ040-ND	38.20	35.63	30.98
100	80	0.70	16000	-55 ~ 175	203CNQ080-ND	38.20	35.63	30.98
					TO-247AC			
20	15	0.25	700	-55 ~ 125	40L15CWPBF-ND◆	3.92	3.50	2.87
20	15	0.26	700	-55 ~ 125	MBR40L15CW-ND	3.51	3.14	2.58
20	15	0.26	700	-55 ~ 125	MBR40L15CWPBF-ND◆	2.81	2.51	2.06
20	15	0.25	700	-55 ~ 125	STPS40L15CWPBF-ND◆	2.80	2.51	2.06
65	15	0.46	1500	-55 ~ 125	65PQ015PBF-ND◆	4.20	3.75	3.08
40	20	0.32	2200	-55 ~ 150	80CPQ020PBF-ND◆	4.76	4.25	3.49
25	30	0.38	2180	-55 ~ 150	52CPQ030PBF-ND◆	11.25	10.13	8.33
35	30	0.51	2180	-55 ~ 150	72CPQ030PBF-ND◆	6.33	5.70	4.69
15	35	0.50	1020	-55 ~ 150	30CPQ035-ND	5.04	4.50	3.69
15	35	0.50	1020	-55 ~ 150	30CPQ035PBF-ND◆	4.03	3.60	2.96
15	35	0.60	1020	-65 ~ 150	MBR3035WTPBF-ND◆	2.36	2.13	1.71
20	35	0.43	3500	-55 ~ 150	40CPQ035PBF-ND◆	5.60	5.00	4.10
15	40	0.50	1020	-55 ~ 150	30CPQ040PBF-ND◆	4.72	4.22	3.46
20	40	0.43	3500	-55 ~ 150	40CPQ040PBF-ND◆	6.46	5.82	4.79
20	40	0.43	3500	-55 ~ 150	STPS40L40CWPBF-ND◆	3.48	3.11	2.56
20	45	0.42	1240	-55 ~ 150	STPS40L45CWPBF-ND◆	2.84	2.54	2.08
15	45	0.60	1020	-65 ~ 150	MBR3045WTPBF-ND◆	2.36	2.14	1.72
20	45	0.42	1240	-55 ~ 150	40L45CWPBF-ND◆	4.20	3.75	3.08
20	45	0.59	1020	-55 ~ 150	MBR4045WTPBF-ND◆	2.55	2.31	1.86
30	45	0.69	2900	-55 ~ 150	MBR6045WTPBF-ND◆	3.56	3.18	2.61
15	45	0.50	1020	-55 ~ 150	30CPQ045-ND	6.58	5.92	4.87
15	50	0.50	1020	-55 ~ 150	30CPQ050PBF-ND◆	4.34	3.88	3.18
20	50	0.49	3200	-55 ~ 150	40CPQ050PBF-ND◆	7.08	6.37	5.24
20	60	0.77	3200	-55 ~ 150	MBR4060WTPBF-ND◆	3.14	2.80	2.30
15	60	0.50	1020	-55 ~ 150	30CPQ060PBF-ND◆	6.41	5.73	4.70
20	60	0.49	3200	-55 ~ 150	40CPQ060PBF-ND◆	7.95	7.16	5.89
15	60	0.56	1020	-55 ~ 150	STPS30L60CWPBF-ND◆	2.64	2.38	1.92
15	80	0.67	920	-55 ~ 175	30CPQ080PBF-ND◆	6.97	6.28	5.16
20	80	0.61	2950	-55 ~ 175	40CPQ080PBF-ND◆	8.83	7.95	6.54
15	90	0.67	920	-55 ~ 175	30CPQ090PBF-ND◆	3.92	3.50	2.87
15	100	0.67	920	-55 ~ 175	30CPQ100PBF-ND◆	3.22	2.88	2.36
20	100	0.77	2950	-55 ~ 175	40CPQ100PBF-ND◆	9.40	8.46	6.96
30	100	0.64	2200	-55 ~ 175	63CPQ100PBF-ND◆	6.25	5.63	4.63
15	140	0.67	920	-55 ~ 175	30CPQ140PBF-ND◆	6.43	5.79	4.77
15	150	1	1000	-55 ~ 175	30CPQ150PBF-ND◆	7.38	6.64	5.46
30	150	0.67	2300	-55 ~ 175	60CPQ150PBF-ND◆	5.39	4.81	3.95
40	150	0.71	1930	-55 ~ 175	80CPQ150PBF-ND◆	7.35	6.62	5.44
					TO-249AA — RoHS Compliant			
80	30	0.46	7900	-55 ~ 150	162CNQ030-ND	38.20	35.63	30.98
150	30	0.56	10000	-55 ~ 150	322CNQ030-ND	38.20	35.63	30.98
160	35	0.63	11500	-55 ~ 175	161CMQ035-ND	38.20	35.63	30.98
160	40	0.60	6400	-55 ~ 150	160CMQ040-ND	62.50	50.00	37.50
80	45	0.63	11500	-55 ~ 175	161CNQ045-ND	38.20	35.63	30.98
80	100	0.80	9000	-55 ~ 175	163CNQ100-ND	38.20	35.63	30.98

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
						1	10	100
					TO-262			
20	15	0.25	700	-55 ~ 125	40L15CT-1PBF-ND◆	4.52	4.04	3.32
15	45	0.56	1060	-55 ~ 175	30CTQ045-1PBF-ND◆	2.69	2.43	1.96
20	45	0.48	1240	-55 ~ 150	40CTQ045-1PBF-ND◆	3.11	2.78	2.28
7.5	45	0.84	690	-65 ~ 150	MBR1545CT-1-ND	2.28	2.07	1.66
10	45	0.57	1060	-65 ~ 150	MBR2045CT-1PBF-ND◆	2.87	2.56	2.10
15	45	0.73	1060	-65 ~ 150	MBR2545CT-1PBF-ND◆	2.43	2.20	1.77
20	45	0.6	900	-65 ~ 150	MBR4045CT-1PBF-ND◆	2.63	2.38	1.92
15	60	0.56	1000	-55 ~ 150	30CTQ060-1PBF-ND◆	2.58	2.33	1.87
20	60	0.58	1000	-55 ~ 150	48CTQ060-1PBF-ND◆	4.61	4.12	3.38
15	80	0.67	850	-55 ~ 175	30CTQ080-1PBF-ND◆	3.56	3.18	2.61
8	100	0.58	850	-55 ~ 175	16CTQ100-1PBF-ND◆	2.46	2.23	1.79
20	100	0.67	850	-55 ~ 175	43CTQ100-1PBF-ND◆	3.25	2.90	2.38
					DO-41/DO-204AL — RoHS Compliant			
1	30	0.55	225	-40 ~ 150	1N5818IR-ND	.45	.38	.29
1.1	30	0.55	225	-40 ~ 150	11DQ03-ND	.48	.40	.30
3.3	30	0.55	470	-40 ~ 150	31DQ03-ND	.84	.74	.57
1	40	0.55	225	-40 ~ 150	1N5819IR-ND	.45	.38	.29
1.1	40	0.55	225	-40 ~ 150	11DQ04-ND	.48	.40	.30
1.1	40	0.55	225	-40 ~ 150	11DQ04TR-ND	725.00/5,000		
1	50	0.65	150	-40 ~ 150	MBR150-ND	.45	.38	.29
1.1	50	0.58	150	-40 ~ 150	11DQ05-ND	.52	.44	.33
1	60	0.65	150	-40 ~ 150	MBR160-ND	.46	.36	.25
1.1	60	0.58	150	-40 ~ 150	11DQ06-ND	.52	.44	.33
1.1	60	0.58	150	-40 ~ 150	11DQ06TR-ND	800.00/5,000		
1.1	90	0.85	85	-40 ~ 150	11DQ09-ND	.57	.48	.36
1.1	90	0.85	85	-40 ~ 150	11DQ09TR-ND	870.00/5,000		
1	100	0.68	200	-40 ~ 150	MBR1100-ND	.42	.34	.23
1.1	100	0.85	85	-40 ~ 150	11DQ10-ND	.57	.48	.36
					DO-204AR — RoHS Compliant			
9	15	0.31	2900	-55 ~ 100	95SQ015-ND	3.36	3.00	2.46
8	30	0.44	2400	-55 ~ 175	80SQ030-ND	1.83	1.66	1.33
9	30	0.42	2150	-55 ~ 150	90SQ030-ND	1.92	1.74	1.40
8	35	0.53	2400	-55 ~ 175	80SQ035-ND	1.86	1.68	1.35
8	35	0.53	2400	-55 ~ 175	80SQ035TR-ND	1305.00/1,500		
9	35	0.42	2150	-55 ~ 150	90SQ035-ND	1.95	1.77	1.42
8	40	0.53	2400	-55 ~ 175	80SQ040-ND	2.28	2.06	1.66
9	40	0.48	2150	-55 ~ 150	90SQ040-ND	2.18	1.97	1.59
8	45	0.53	2400	-55 ~ 175	80SQ045-ND	2.26	2.05	1.65
8	45	0.53	2400	-55 ~ 175	80SQ045TR-ND	1588.50/1,500		
9	45	0.48	2150	-55 ~ 150	90SQ045-ND	2.11	1.91	1.53
5	60	0.65	225	-65 ~ 150	50SQ060-ND	2.36	2.13	1.71
5	80	0.66	1900	-55 ~ 175	50SQ080-ND	2.48	2.24	1.80
5	100	0.52	1900	-55 ~ 175	50SQ100CT-ND	2.94	2.53	2.07
					D-60			
75	15	0.80	—	-55 ~ 175	155CMQ015-ND◆	38.20	35.63	30.98
150	30	0.65	9200	-55 ~ 175	152CMQ030-ND	23.67	21.90	18.65
150	35	0.60	6600	-55 ~ 150	150CMQ035-ND◆	38.20	35.63	30.98
150	35	0.65	9200	-55 ~ 175	151CMQ035-ND◆	38.20	35.63	30.98
150	40	0.60	6600	-55 ~ 150	150CMQ040-ND◆	38.20	35.63	30.98
150	40	0.65	9200	-55 ~ 175	151CMQ040-ND◆	38.20	35.63	30.98
150	45	0.60	6600	-55 ~ 150	150CMQ045-ND◆	38.20	35.63	30.98
150	45	0.65	9200	-55 ~ 175	151CMQ045-ND◆	38.20	35.63	30.98
150	45	0.60	6600	-55 ~ 150	150CNQ045-ND	21.49	19.88	16.93
150	80	0.80	7000	-55 ~ 175	153CMQ080-ND◆	43.60	40.66	35.35

◆ **RoHS Compliant**

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D61-8

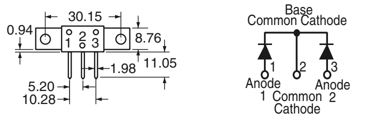

D61-8-SL

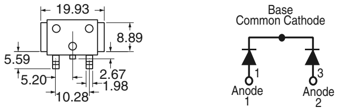

D61-8-SM

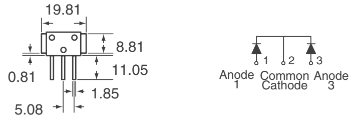

D-PAK

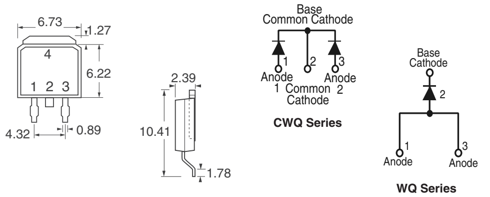

D-2PAK

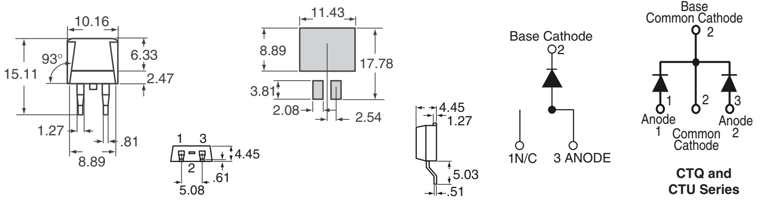

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
D61-8								
55	15	0.33	5050	-55 ~ 125	115CNQ015APBF-ND◆	14.70	13.37	11.36
40	20	0.32	6000	-55 ~ 150	87CNQ020APBF-ND◆	16.29	14.81	12.59
40	30	0.37	5100	-55 ~ 150	82CNQ030APBF-ND◆	16.55	15.05	12.79
55	30	0.39	5100	-55 ~ 150	112CNQ030APBF-ND◆	17.47	15.89	13.51
40	35	0.47	5800	-55 ~ 150	80CNQ035APBF-ND◆	15.94	14.49	12.32
40	40	0.54	4600	-55 ~ 175	81CNQ040A-ND	16.10	14.64	12.44
40	45	0.47	5800	-55 ~ 150	80CNQ045APBF-ND◆	16.48	14.98	12.74
40	45	0.54	4600	-55 ~ 175	81CNQ045APBF-ND◆	16.10	14.64	12.44
55	45	0.55	4000	-55 ~ 175	111CNQ045APBF-ND◆	18.02	16.38	13.93
55	45	0.5	5400	-55 ~ 150	110CNQ045APBF-ND◆	17.78	16.17	13.74
40	80	0.67	7000	-55 ~ 175	83CNQ080APBF-ND◆	16.45	14.96	12.71
40	100	0.67	7000	-55 ~ 175	83CNQ100APBF-ND◆	16.45	14.96	12.71
D61-8-SL								
55	15	0.33	5050	-55 ~ 125	115CNQ015ASL-ND	14.70	13.37	11.36
55	45	0.5	5400	-55 ~ 150	110CNQ045ASL-ND	17.47	15.89	13.51
80	80	0.67	7000	-55 ~ 175	83CNQ080ASL-ND	16.14	14.68	12.48
55	100	0.67	7000	-55 ~ 175	113CNQ100ASL-ND	18.02	16.38	13.93

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
D-61-8-SM								
40	30	0.37	5100	-55 ~ 150	82CNQ030ASM-ND	16.24	14.77	12.56
40	35	0.54	4600	-55 ~ 175	81CNQ035ASM-ND	16.10	14.64	12.44
40	40	0.54	4600	-55 ~ 175	81CNQ040ASM-ND	16.10	14.64	12.44
40	45	0.47	5800	-55 ~ 150	80CNQ045ASM-ND	15.94	14.49	12.32
80	80	0.67	7000	-55 ~ 175	83CNQ080ASM-ND	16.45	14.96	12.71
D-PAK								
6	30	0.47	320	-55 ~ 150	12CWQ03FN-ND	1.48	1.34	1.08
3.5	40	0.49	500	-40 ~ 150	6CWQ04FNTRCT-ND	1.61	1.38	1.13
D-2PAK								
15	30	0.49	1000	-55 ~ 150	32CTQ030STRL-ND	1693.60/800		
16	35	0.57	1800	-65 ~ 150	MBRB1635PBF-ND◆	2.12	1.92	1.54
7.5	45	0.57	690	-65 ~ 150	MBRB745PBF-ND◆	1.79	1.62	1.30
16	45	0.57	1800	-65 ~ 150	MBRB1645PBF-ND◆	2.89	2.58	2.12
15	60	0.62	1060	-55 ~ 150	30CTQ060STRLPBFCT-ND◆	4.83	4.35	3.55
30	60	0.62	1060	-55 ~ 150	30CTQ060STRLPBFTR-ND◆	1932.00/800		

◆ *RoHS Compliant*

Bridge Rectifiers

Operating Temperature Range: -40°C ~ 150°C **Storage Temperature Range:** -40°C ~ 150°C

RoHS COMPLIANT

D-34A

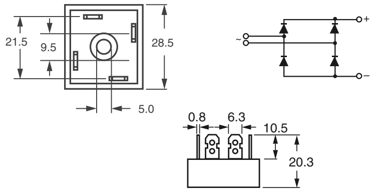

GBPC-A

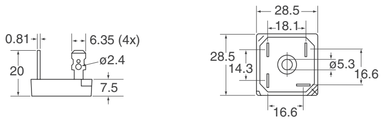

D-63

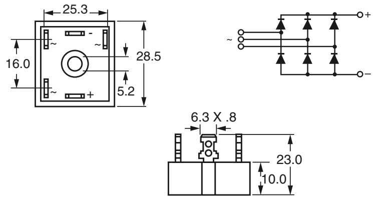

Pkg.	Max. Peak Reverse Volt. (V)	Max. Surge Current 10ms (A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
D-34A	50	350	1.1	25	26MB05A-ND	8.35	7.52	6.18
	100	350	1.1	25	26MB10A-ND	8.87	7.99	6.57
	200	350	1.1	25	26MB20A-ND	8.87	7.99	6.57
	600	350	1.1	25	26MB60A-ND	9.21	8.30	6.82
	200	420	1.2	35	36MB20A-ND	8.39	7.55	6.21
	400	420	1.2	35	36MB40A-ND	8.48	7.63	6.28
	600	420	1.2	35	36MB60A-ND	8.64	7.78	6.40
	800	420	1.2	35	36MB80A-ND	8.70	7.84	6.44
	1000	420	1.2	35	36MB100A-ND	9.65	8.69	7.14
	1200	420	1.2	35	36MB120A-ND	9.76	8.79	7.23
	1600	420	1.2	35	36MB160A-ND	14.68	13.35	11.35
GBPC-A	200	350	1.1	25	GBPC2502A-ND	4.82	4.30	3.53
	200	350	1.1	35	GBPC3502A-ND	5.28	4.72	3.87
	400	350	1.1	25	GBPC2504A-ND	4.82	4.30	3.53
	600	350	1.1	25	GBPC2506A-ND	4.89	4.37	3.58

Pkg.	Max. Peak Reverse Volt. (V)	Max. Surge Current 10ms (A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
GBPC-A	800	350	1.1	25	GBPC2508A-ND	4.96	4.43	3.64
	400	420	1.1	35	GBPC3504A-ND	5.03	4.49	3.69
	600	420	1.1	35	GBPC3506A-ND	5.21	4.65	3.82
	800	420	1.1	35	GBPC3508A-ND	5.28	4.72	3.87
	1000	420	1.1	35	GBPC3510A-ND	5.92	5.29	4.34
	1200	420	1.1	35	GBPC3512A-ND	5.52	4.94	4.05
D-63	600	360	1.26	25	26MT60-ND	16.67	15.16	12.89
	1000	360	1.26	25	26MT100-ND	18.73	17.03	14.48
	1600	360	1.26	25	26MT160-ND	20.71	19.16	16.32
	100	475	1.26	35	36MT10-ND	15.43	14.03	11.93
	400	300	1.19	35	36MT40-ND	15.73	14.31	12.16
	600	475	1.19	35	36MT60-ND	15.97	14.52	12.35
	800	475	1.19	35	36MT80-ND	16.21	14.74	12.53
	1200	475	1.19	35	36MT120-ND	19.31	17.56	14.93
	1600	420	1	35	36MT160-ND	21.54	19.93	16.97

HexFred Diodes

HEXFRED technology sets a new standard for high performance ultrafast diodes. This performance advantage can be utilized by the designer resulting in higher efficiency circuits and lower overall system cost. HEXFREDS will: • Allow IGBTS and MOSFETS to run cooler by 10°C, 20°C • Improve overall system efficiency by 1%, 2% • Reduce noise and the need for snubber circuitry • Allow for higher frequency operation • Allow many marginal circuits to work more reliably

Fig. 1

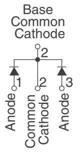

Fig. 2

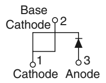

Fig. 3

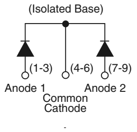

Fig. 4

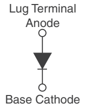

Fig. 5

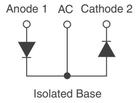

TO-220AB

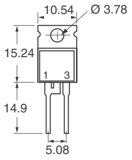

TO-220AC

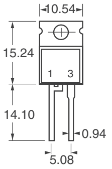

TO-247AC

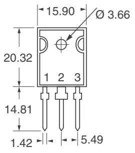

TO-247AC/MOD

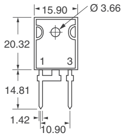

D-60

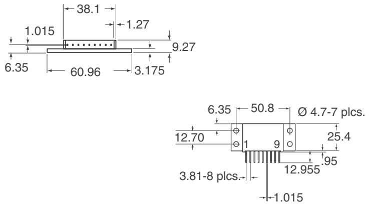

D61-8SM

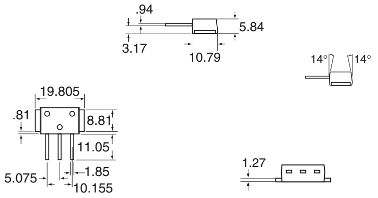

HALF-PAK

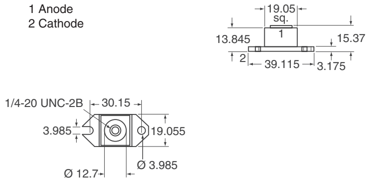

TO-244AB (ISO)

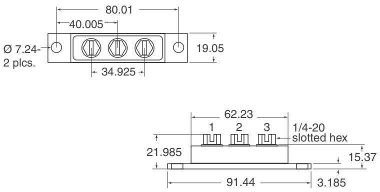

TO-244AB

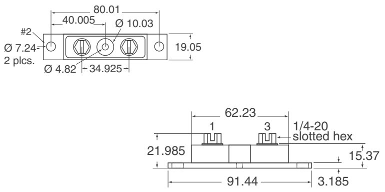

TO-249AA

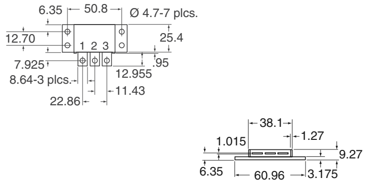

Fig.	Package	VR	VF	IF(AV) (A)	IRRM (A)	Digi-Key Part No.	Price Each 1	10	100
1	TO-220AB	600	1.7	8	5	HFA16TA60CPBF-ND◆	6.18	5.52	4.53
	TO-220AB	600	1.8	4	5.2	HFA08TA60CPBF-ND◆	2.98	2.66	2.19
2	TO-220AC	600	1.5	4	2.9	HFA04TB60PBF-ND◆	2.33	2.11	1.69
	TO-220AC	600	1.7	8	5	HFA08TB60PBF-ND◆	3.11	2.78	2.28
	TO-220AC	600	1.7	15	6	HFA15TB60PBF-ND◆	3.99	3.57	2.93
	TO-220AC	600	1.7	25	10	HFA25TB60PBF-ND◆	6.23	5.57	4.57
	TO-220AC	1,200	2.4	6	4.4	HFA06TB120PBF-ND◆	5.00	4.47	3.67
	TO-220AC	1,200	2.3	16	5.8	HFA16TB120PBF-ND◆	11.57	10.42	8.56
1	TO-247AC	600	1.7	15	6	HFA30PA60CPBF-ND◆	7.86	7.08	5.82
	TO-247AC	600	1.7	8	5	HFA16PA60CPBF-ND◆	5.32	4.75	3.90
	TO-247AC	600	1.3	25	4.5	HFA50PA60CPBF-ND◆	12.23	11.12	9.45
	TO-247AC	1,200	2.3	16	5.8	HFA32PA120CPBF-ND◆	16.09	14.63	12.44
2	TO-247AC/ MOD	1,200	2.4	30	8.1	HFA30PB120PBF-ND◆	14.82	13.48	11.46
		1,200	3	8	4.5	HFA08PB120PBF-ND◆	6.84	6.16	5.07
		600	1.7	15	6	HFA15PB60PBF-ND◆	5.16	4.61	3.78
		600	1.7	25	10	HFA25PB60PBF-ND◆	7.89	7.10	5.84
		600	1.7	8	5	HFA08PB60PBF-ND◆	3.81	3.40	2.79

Fig.	Package	VR	VF	IF(AV) (A)	IRRM (A)	Digi-Key Part No.	Price Each 1	10	100
3	D-60	600	1.1	50	6	HFA60MB60C-ND◆	44.31	41.33	35.93
1	D61-8SM	600	1.2	56	6	HFA70NC60CSM-ND	19.08	17.65	15.03
	D61-8SM	400	1	85	6	HFA80NC40CSM-ND	17.52	16.21	13.80
4	HALF-PAK	600	1.3	140	9.3	HFA140NH60-ND◆	32.04	29.64	25.23
	HALF-PAK	600	1.2	70	8.5	HFA70NH60-ND◆	22.25	20.58	17.53
1	TO-244AB (ISO)	600	1.5	180	17	HFA180MD60D-ND◆	66.83	62.79	57.58
		600	1.5	180	17	HFA180MD60C-ND◆	65.97	61.98	56.85
5	TO-244AB (ISO)	400	0.9	172	8.1	HFA200MD40D-ND◆	67.98	63.87	58.58
1	TO-244AB	400	1	170	9.3	HFA160NJ40C-ND◆	42.79	39.90	34.69
	TO-244AB	400	1	240	7.5	HFA240NJ40C-ND◆	63.97	51.87	46.69
5	TO-244AB	600	1.2	126	8.5	HFA140NJ60D-ND	44.29	41.30	35.91
	TO-244AB	400	1	170	9.3	HFA160NJ40D-ND	47.09	43.91	38.18
	TO-244AB	600	1.2	171	10	HFA210NJ60D-ND	56.84	53.50	47.65
	TO-244AB	400	1	244	7.5	HFA240NJ40D-ND◆	48.66	45.80	40.79
	TO-244AB	600	1.3	222	93	HFA280NJ60D-ND	64.89	61.07	—
1	TO-249AA	600	1.1	50	6	HFA60MC60C-ND◆	28.25	26.14	22.26

◆ ***RoHS Compliant***

Input Rectifier Diodes

Dimensions in mm

DO-4

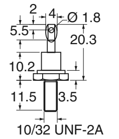

Cathode to Stud

DO-5

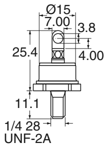

Cathode to Stud

41HF (R)

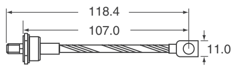

DO-8

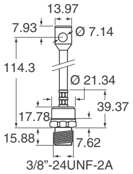

PowIRtab

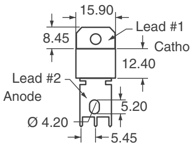

TO-220AC

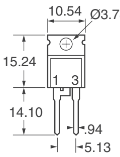

TO-220AC FULLPAK

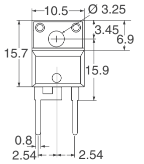

TO-247AC/MOD

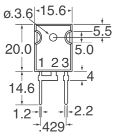

TO-247AC

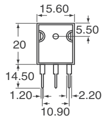

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
Standard Recovery Diodes (Discrete Circuit)									
DO-4	12	50	1.35	230	-65 ~ 200	1N1199A-ND◆	4.83	4.32	3.54
	12	100	1.26	265	-65 ~ 175	12F10-ND◆	4.00	3.58	2.94
	12	100	1.26	265	-65 ~ 175	12FR10-ND◊◆	4.40	3.93	3.23
	12	100	1.35	230	-65 ~ 200	1N1200A-ND◆	4.86	4.34	3.56
	12	200	1.26	265	-65 ~ 175	12F20-ND◆	4.87	4.36	3.57
	12	200	1.26	265	-65 ~ 175	12FR20-ND◊◆	4.87	4.36	3.57
	12	300	1.35	230	-65 ~ 200	1N1203RA-ND◊◆	5.13	4.59	3.76
	12	400	1.26	265	-65 ~ 175	12F40-ND◆	4.80	4.29	3.52
	12	400	1.26	265	-65 ~ 175	12FR40-ND◊◆	5.28	4.72	3.87
	12	400	1.35	230	-65 ~ 200	1N1204A-ND◆	5.54	4.95	4.06
	12	600	1.35	230	-65 ~ 200	1N1206A-ND◆	5.98	5.34	4.38
	12	600	1.26	265	-65 ~ 175	12F60-ND◆	5.64	5.04	4.13
	12	600	1.35	230	-65 ~ 200	1N1206RA-ND◊◆	5.98	5.34	4.38
	12	1000	1.26	265	-65 ~ 175	12F100-ND◆	7.59	6.84	5.62
	12	1000	1.35	230	-65 ~ 200	1N3673A-ND◆	6.67	6.00	4.94
	12	1200	1.26	265	-65 ~ 175	12F120-ND◆	8.72	7.85	6.46
	16	400	0.9	350	-65 ~ 175	16F40-ND◆	5.36	4.79	3.93
	16	600	1.23	350	-65 ~ 175	16F60-ND◆	6.22	5.56	4.56
	16	600	1.23	350	-65 ~ 175	16FR60-ND◆	6.22	5.56	4.56
	16	1200	1.23	370	-65 ~ 175	16F120-ND◆	9.30	8.37	6.88
	25	100	1.3	356	-65 ~ 175	25F10-ND◆	5.57	4.98	4.09
	25	200	1.3	356	-65 ~ 175	25F20-ND◆	5.82	5.20	4.27
	25	400	1.3	356	-65 ~ 175	25F40-ND◆	5.98	5.34	4.38
	25	600	1.3	356	-65 ~ 175	25FR60-ND◊◆	6.34	5.67	4.65
	25	1200	1.3	356	-65 ~ 175	25F120-ND◆	9.79	8.82	7.25
DO-5	35	100	1.7	480	-65 ~ 190	1N1184-ND◆	6.69	5.97	4.90
	40	50	1.3	765	-65 ~ 200	1N1183A-ND◆	6.56	5.91	4.86
	40	100	1.3	765	-65 ~ 190	1N1184RA-ND◊◆	6.57	5.91	4.86
	40	200	1.3	765	-65 ~ 190	1N1186RA-ND◊◆	6.56	5.91	4.86
	40	400	1.3	570	-65 ~ 190	40HFR40-ND◊◆	7.07	6.37	5.23
	40	600	1.3	765	-65 ~ 190	1N1190RA-ND◊◆	8.82	7.94	6.53
	40	1000	1.3	570	-65 ~ 160	40HFR100-ND◆	10.09	9.09	7.47
	60	100	1.3	860	-65 ~ 190	1N2129A-ND◆	8.70	7.83	6.44
	60	200	1.3	860	-65 ~ 190	1N2131RA-ND◊◆	9.66	8.70	7.15
	70	100	1.00	1250	-65 ~ 150	70HF10-ND◆	7.98	7.18	5.91
	70	100	1.35	1200	-65 ~ 180	70HFR10-ND◊◆	7.98	7.18	5.91
	70	200	0.79	1200	-65 ~ 150	70HF20-ND◆	8.44	7.60	6.25
	70	200	1.35	1200	-65 ~ 180	70HFR20-ND◊◆	8.44	7.60	6.25
	70	800	0.79	1200	-65 ~ 150	70HF80-ND◆	12.10	10.89	8.96
	70	800	1.35	1200	-65 ~ 180	70HFR80-ND◊◆	12.10	10.89	8.96
	70	1200	1.35	1250	-65 ~ 180	70HF120-ND§◆	14.28	12.98	11.04
	70	1200	1.35	1250	-65 ~ 180	70HFR120-ND◊§◆	14.28	12.98	11.04
	70	1600	0.79	1200	-65 ~ 150	70HF160-ND◆	16.14	14.68	12.48
	85	200	1.2	1700	-65 ~ 180	85HF20-ND◆	12.02	10.82	8.90
	85	1600	1.2	1700	-65 ~ 180	85HF160-ND◆	18.56	16.88	14.35
	85	800	1.2	1700	-65 ~ 180	85HF80-ND◆	14.21	12.92	10.98
	85	1200	1.2	1700	-65 ~ 180	85HF120-ND◆	16.41	14.92	12.68
41HF	40	200	0.70	570	-65 ~ 190	41HF20-ND◆	7.77	7.00	5.75
	40	1000	0.70	570	-65 ~ 190	41HF100-ND◆	11.43	10.40	8.84
DO-8	150	400	1.33	3570	-40 ~ 200	150KR40A-ND◊◆	35.45	32.80	27.92
	150	600	1.33	3570	-40 ~ 200	150K60A-ND◆	36.52	33.78	28.76
TO-220AC	10	800	1.1	175	-40 ~ 150	10ETS08-ND	2.21	2.00	1.61
	20	800	1.1	260	-40 ~ 150	20ETS08-ND	2.84	2.54	2.09
	20	1200	1.1	260	-40 ~ 150	20ETS12-ND	2.86	2.55	2.10
TO-220AC FULLPAK	10	1200	1.1	170	-40 ~ 150	10ETS12-ND	2.19	1.99	1.60
	20	400	1.3	250	-40 ~ 150	20ETF04FP-ND	4.02	3.59	2.94
	20	800	1.3	250	-40 ~ 150	20ETS08FP-ND	3.07	2.74	2.25
	20	1200	1.3	250	-40 ~ 150	20ETS12FP-ND	3.06	2.73	2.24
TO-247AC/MOD	40	800	1.1	380	-40 ~ 150	40EPS08-ND	4.43	3.96	3.25
	40	1200	1.1	380	-40 ~ 150	40EPS12-ND	4.79	4.28	3.51
	60	800	1.1	735	-40 ~ 150	60EPS08-ND	6.54	5.84	4.79
	60	1200	1.1	735	-40 ~ 150	60EPS12-ND	6.50	5.85	4.81

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
TO-247AC	80	800	1.17	1450	-40 ~ 150	80EPS08-ND	8.58	7.73	6.35
	80	1200	1.17	1450	-40 ~ 150	80EPS12-ND	9.74	8.77	7.21
B-42	150	100	1.33	3000	-40 ~ 200	150KS10-ND◆	35.00	32.38	27.57
B-47	50	400	1.45	714	-65 ~ 195	8AF4NPP-ND◆	6.81	6.08	4.99
D^2Pak	10	1200	1.1	170	-40 ~ 150	10ETS12SPBF-ND	2.52	2.28	1.84
Fast Recovery Diodes									
DO-4	6	200	1.4	72	-65 ~ 150	1N3881-ND◆	6.81	6.14	5.05
	12	100	1.4	145	-65 ~ 150	1N3890-ND◆	6.92	6.23	5.13
	12	600	1.4	145	-65 ~ 150	12FL60S02-ND◆	8.47	7.63	6.27
	16	200	1.4	180	-65 ~ 150	16FL20S02-ND◆	7.16	6.45	5.31
	16	1000	1.4	180	-65 ~ 150	16FLR100S05-ND◊◆	11.19	10.08	8.29
DO-5	30	200	1.45	400	-40 ~ 150	30HFU-200-ND◆	11.61	10.45	8.59
	40	800	1.95	400	-40 ~ 125	40HFLR80S05-ND◊◆	13.77	12.52	10.65
	60	100	1.5	700	-40 ~ 125	60HFU-100-ND◆	11.16	10.15	8.63
	70	1000	1.2	730	-40 ~ 150	70HFL100S05-ND◆	16.94	15.40	13.09
	70	600	1.85	700	-40 ~ 125	70HFLR60S02-ND◊◆	15.58	14.17	12.05
	85	600	1.76	1100	-40 ~ 125	85HFL60S05-ND◆	18.63	16.94	14.40
	85	600	1.76	1100	-40 ~ 125	85HFLR60S05-ND◊◆	18.63	16.94	14.40
TO-220AC	10	600	1.2	160	-40 ~ 150	10ETF06-ND	3.14	2.81	2.31
	10	1000	1.2	150	-40 ~ 150	10ETF10-ND	2.92	2.61	2.14
	10	1200	1.2	150	-40 ~ 150	10ETF12-ND	3.55	3.17	2.60
	20	600	1.2	150	-40 ~ 150	20ETF06-ND	4.64	4.14	3.40
	20	800	1.2	150	-40 ~ 150	20ETF08-ND	4.64	4.14	3.40
	20	1000	1.2	150	-40 ~ 150	20ETF10-ND	4.21	3.77	3.09
	20	1200	1.2	150	-40 ~ 150	20ETF12-ND	5.11	4.56	3.74
TO-220AC FULLPAK	20	600	1.2	300	-40 ~ 150	20ETF06FP-ND	4.99	4.46	3.66
TO-247AC/MOD	30	600	1.2	350	-40 ~ 150	30EPF06-ND	5.54	4.95	4.06
	30	1000	1.2	350	-40 ~ 150	30EPF10-ND	6.62	5.91	4.85
	40	400	1.25	400	-40 ~ 150	40EPF04-ND	6.10	5.45	4.47
	40	600	1.25	400	-40 ~ 150	40EPF06-ND	6.65	5.94	4.88
	60	200	1.3	700	-40 ~ 150	60EPF02-ND	9.74	8.77	7.21
	60	600	1.3	700	-40 ~ 150	60EPF06-ND	10.00	9.00	7.40
	60	1200	1.3	700	-40 ~ 150	60EPF12-ND	10.64	9.58	7.88
	80	600	1.2	800	-40 ~ 150	80EPF06-ND	13.65	12.41	10.55
	80	1200	1.2	800	-40 ~ 150	80EPF12-ND	14.20	12.91	10.98
TO-247AC	30	400	1.2	350	-40 ~ 150	30CPF04-ND	5.36	4.79	3.93
	30	1000	1.41	350	-40 ~ 150	30CPF10-ND	5.71	5.10	4.18
	60	200	1.3	700	-40 ~ 150	60CPF02-ND	9.74	8.77	7.21
	60	1200	1.3	700	-40 ~ 150	60CPF12-ND	10.64	9.58	7.88
Half-Pak (A)	70	600	1.5	400	-55 ~ 150	HFA70NH60R-ND◊	20.83	19.27	16.41
	105	600	1.5	600	-55 ~ 150	HFA105NH60R-ND◊◆	25.26	23.37	19.90
	135	400	1.3	900	-55 ~ 150	HFA135NH40R-ND◊◆	26.10	24.15	20.56
	140	600	1.6	800	-55 ~ 150	HFA140NH60R-ND◊◆	32.04	29.64	25.23
FlipKY	0.5	40	0.42	190	-55 ~ 150	FCSP05H40CT-ND‡◆	.70	.56	.42
	0.5	40	0.42	190	-55 ~ 150	FCSP05H40TR-ND‡◆	1104.00/6,000		
Ultrafast Diodes									
PowIRtab	150	200	1.13	1600	-55 ~ 175	150EBU02-ND	8.00	7.20	5.92
	150	400	1.3	1500	-55 ~ 175	150EBU04-ND	8.25	7.43	6.11
TO-220AC	15	200	1.05	200	-65 ~ 175	MUR1520PBF-ND◆	1.61	1.46	1.17
	8	200	0.975	100	-65 ~ 175	MUR820PBF-ND◆	1.30	1.15	.91
	8	300	1.25	100	-65 ~ 175	8ETH03PBF-ND◆	1.68	1.49	1.18
	8	400	1.3	100	-65 ~ 175	8ETU04-ND	1.87	1.70	1.36
	8	600	2.4	90	-65 ~ 175	8ETH06PBF-ND◆	1.68	1.49	1.18
	8	600	2.3	110	-65 ~ 175	8ETX06PBF-ND◆	1.64	1.49	1.20
	15	300	1.25	140	-65 ~ 175	15ETH03PBF-ND◆	1.57	1.42	1.15
TO-220AC	15	600	2.2	120	-65 ~ 175	15ETH06PBF-ND◆	1.59	1.44	1.16
	15	600	0.99	250	-65 ~ 175	15ETL06PBF-ND◆	1.76	1.59	1.28
	15	600	2.3	170	-65 ~ 175	15ETX06PBF-ND◆	1.98	1.80	1.44
	30	600	2.6	200	-65 ~ 175	30ETH06PBF-ND◆	2.97	2.65	2.18

◊ Anode to stud   § tp = 8.3ms   ‡ IFSM(A) @ tp= 5μs Sine   ◆ ***RoHS Compliant***   *(Continued)*

Input Rectifier Diodes *(Cont.)*

Dimensions in mm

B-42

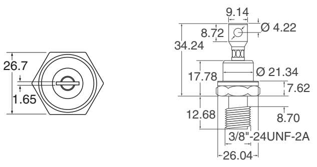

B-47

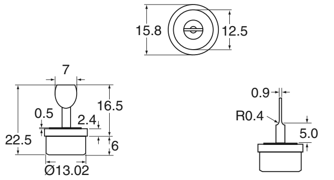

D²Pak

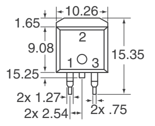

Half-Pak

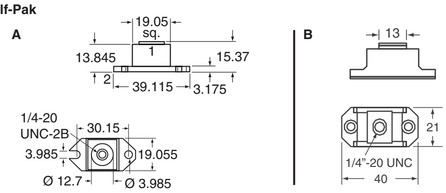

FlipKY™

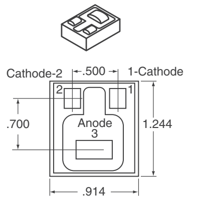

TO-262

1. Gate
2. Drain
3. Source
4. Drain

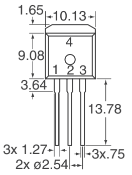

TO-220AB

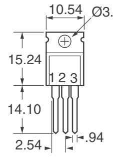

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
TO-220AC FULLPAK	8	600	2.4	100	-65 ~ 175	8ETH06FPPBF-ND◆	1.78	1.61	1.30
	8	600	0.96	175	-65 ~ 175	8ETL06FPPBF-ND◆	1.88	1.70	1.37
	8	600	2.3	110	-65 ~ 175	8ETX06FPPBF-ND◆	1.77	1.61	1.29
	15	600	2.2	180	-65 ~ 175	15ETH06FPPBF-ND◆	2.06	1.87	1.50
	15	600	0.99	250	-65 ~ 175	15ETL06FPPBF-ND◆	2.24	2.03	1.63
	15	600	2.3	170	-65 ~ 175	15ETX06FPPBF-ND◆	2.16	1.96	1.58
	10	300	1.05	120	-65 ~ 175	20CTH03FP-ND	2.83	2.56	2.06
	15	200	0.92	200	-65 ~ 175	30CTH02FP-ND	6.38	5.70	4.68
TO-247AC/MOD	30	300	1.25	300	-65 ~ 175	30EPH03PBF-ND◆	2.95	2.66	2.14
	60	200	1.08	800	-55 ~ 175	60EPU02PBF-ND◆	6.31	5.64	4.63
	60	400	1.25	400	-55 ~ 175	60EPU04PBF-ND◆	6.93	6.19	5.08
	30	600	2.6	600	-65 ~ 175	30EPH06PBF-ND◆	3.08	2.75	2.26
TO-247AC	15	300	1.25	300	-65 ~ 175	30CPH03PBF-ND◆	2.85	2.55	2.09
	15	400	1.25	400	-65 ~ 175	30CPU04PBF-ND◆	2.91	2.63	2.12
	15	200	1.05	200	-65 ~ 175	MUR3020WTPBF-ND◆	3.33	2.98	2.44
	60	600	1.35	600	-55 ~ 175	60APU06-ND	10.19	9.17	7.54

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
TO-247AC	60	200	1.08	800	-55 ~ 175	60APU02PBF-ND◆	6.13	5.48	4.49
	60	400	1.25	400	-55 ~ 175	60APU04-ND	6.25	5.63	4.63
	60	600	1.35	600	-55 ~ 175	60EPU06-ND	10.19	9.17	7.54
Half-Pak (B)	275	400	1.65	900	-55 ~ 150	HFA135NH40PBF-ND◆	31.68	29.31	24.95
TO-262	8	400	1.3	100	-65 ~ 175	8ETU04-1-ND	1.62	1.47	1.18
	8	600	2.3	110	-65 ~ 175	8ETX06-1PBF-ND◆	1.66	1.08	.83
	5	200	1.25	50	-65 ~ 175	MURB1020CT-1PBF-ND◆	1.71	1.54	1.24
	8	200	0.975	100	-65 ~ 175	MURB1620CT-1PBF-ND◆	1.96	1.78	1.43
	15	600	0.99	250	-65 ~ 175	15ETL06-1-ND	2.40	2.17	1.75
	15	600	0.99	250	-65 ~ 175	15ETL06-1PBF-ND◆	1.65	1.08	.83
	30	600	2.6	200	-65 ~ 175	30ETH06-1PBF-ND◆	3.39	2.18	1.70
TO-220AB	5	200	1.25	50	-65 ~ 175	MUR1020CTPBF-ND◆	1.61	1.46	1.17
	8	200	0.975	100	-65 ~ 175	MUR1620CTPBF-ND◆	1.58	1.43	1.15
	10	200	0.85	100	-65 ~ 175	MUR2020CTPBF-ND◆	1.61	1.46	1.17
	16	400	1.3	100	-65 ~ 175	16CTU04PBF-ND◆	1.92	1.74	1.40
	15	300	1.0	150	-65 ~ 175	30CTH03PBF-ND◆	2.41	2.19	1.76

◊ Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5μs Sine ◆ ***RoHS Compliant***

SCRs

Dimensions in mm

TO-208AA (TO-48)

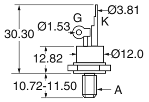

TO-208AC (TO-65)

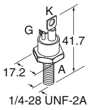

TO-247AC

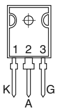

TO-220 FULL-PAK

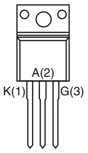

TO-220AC

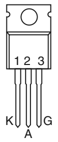

TO-200AB (A-PUK)

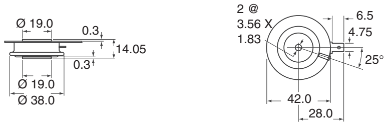

SUPER-247

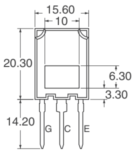

TO-209AE (TO-118)

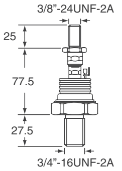

V_{DRM} (V) Max.	$I_{T(AV)}$ (A) Max.	Package	V_{GT} (V) Max.	I_{GT} (mA) Max.	V_{TM} (V) Max.	DV/DT (V/μs) Max.	Digi-Key Part No.	Price Each 1	10	100
100	16 @ 65°C	TO-208AA (TO-48)	2.0	40	2.0	100†	2N683-ND◆	11.84	10.66	8.76
600	50 @ 94°C	TO-208AC (TO-65)	2.5	100	1.6	500	50RIA60-ND◆	19.60	17.82	15.15
1200	50 @ 94°C	TO-208AC (TO-65)	2.5	100	1.6	500	50RIA120-ND◆	25.19	23.31	19.84
800	20 @ 95°C	TO-247AC	2.0	45	1.3	500	30TPS08-ND	3.01	2.69	2.21
1200	20 @ 95°C	TO-247AC	2.0	45	1.3	500	30TPS12-ND	3.39	3.03	2.48
800	35 @ 79°C	TO-247AC	2.5	150	1.85	500	40TPS08-ND	4.93	4.40	3.61
800	35 @ 79°C	TO-247AC	2.5	150	1.85	500	40TPS08A-ND	4.93	4.40	3.61
1200	35 @ 79°C	TO-247AC	2.5	150	1.85	1000	40TPS12-ND	6.16	5.50	4.51
1200	35 @ 79°C	TO-247AC	2.5	150	1.85	1000	40TPS12A-ND	6.16	5.50	4.51
800	10 @ 95°C	TO-220 FULL-PAK	2.0	60	1.4	500	16TTS08FP-ND	3.20	2.86	2.35

V_{DRM} (V) Max.	$I_{T(AV)}$ (A) Max.	Package	V_{GT} (V) Max.	I_{GT} (mA) Max.	V_{TM} (V) Max.	DV/DT (V/μs) Max.	Digi-Key Part No.	Price Each 1	10	100
800	16 @ 85°C	TO-220 FULL-PAK	2.0	45	1.25	500	25TTS08FP-ND	3.85	3.44	2.82
800	10 @ 98°C	TO-220AC	2.0	60	1.4	500	16TTS08-ND	3.03	2.75	2.21
1200	10 @ 98°C	TO-220AC	2.0	60	1.4	500	16TTS12-ND	3.39	3.03	2.49
800	16 @ 93°C	TO-220AC	2.0	45	1.25	500	25TTS08-ND	3.39	3.03	2.49
1200	16 @ 93°C	TO-220AC	2.0	45	1.25	500	25TTS12-ND	3.97	3.55	2.91
800	350 @ 55°C	TO-200AB (A-PUK)	3.0	150	1.96	500	ST180C08C0-ND◆	61.79	58.16	51.80
1200	70 @ 82°C	SUPER-247	1.5	100	1.4	500	70TPS12PBF-ND◆	8.25	7.43	6.11
1600	70 @ 82°C	SUPER-247	1.5	100	1.4	500	70TPS16-ND	8.75	7.88	6.48
2000	300 @ 75°C	TO-209AE (TO-118)	3.0	200	1.66	500	ST300S20P0PBF-ND◆	175.77	166.68	157.59

◆ ***RoHS Compliant*** † Typical

NEW! SANYO SEMI Mosfets

Dimensions in mm

Fig. 1

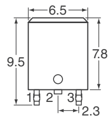

Fig. 2

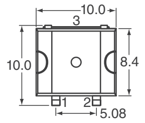

Fig. 3

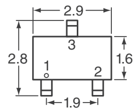

Fig. 4

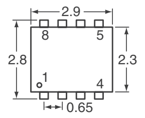

Fig. 5

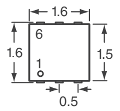

Fig. 6

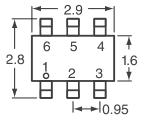

Fig. 7

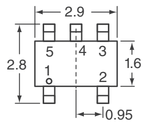

Fig. 8

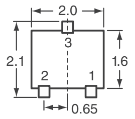

Fig. 9

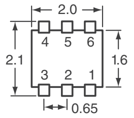

Fig. 10

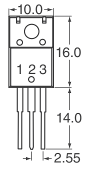

Fig. 11

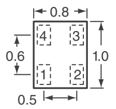

Fig. 12

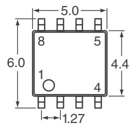

Fig. 13

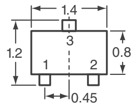

Fig. 14

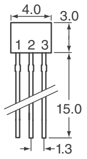

Fig. 15

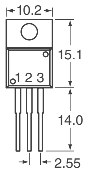

Fig. 16

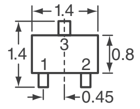

Fig. 17

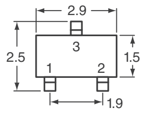

Fig. 18

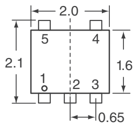

Fig. 19

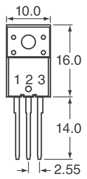

Fig. 20

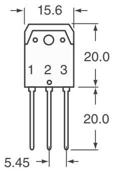

Fig. 21

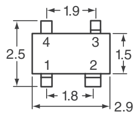

Fig. 22

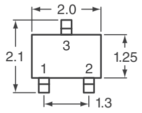

Fig.	V_{DSS} (V)	I_D (A)	R_{DS} (on) mΩ	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
						1	25	100		Qty.	Pricing	
P-Channel												
1	30	40	18.5	ATPAK	869-1073-1-ND	1.25	.99	.90	869-1073-2-ND	3,000	462.00/M	ATP102-TL-H
	30	75	8.4	ATPAK	869-1074-1-ND	2.66	2.06	1.87	869-1074-2-ND	3,000	1178.00/M	ATP104-TL-H
	40	30	2.5	ATPAK	869-1075-1-ND	1.93	1.49	1.35	869-1075-2-ND	3,000	743.00/M	ATP106-TL-H
	40	70	10.4	ATPAK	869-1076-1-ND	2.66	2.06	1.87	869-1076-2-ND	3,000	1026.00/M	ATP108-TL-H
2	60	65	10.5	ZP	869-1090-1-ND	7.11	5.81	5.22	869-1090-2-ND	1,500	3318.00/M	2SJ683-TL-E
3	12	3	70	CPH3	869-1130-1-ND	.66	.51	.45	869-1130-2-ND	3,000	218.00/M	CPH3348-TL-E
	20	5	45	CPH3	869-1128-1-ND	1.06	.82	.72	869-1128-2-ND	3,000	348.00/M	CPH3340-TL-E
	30	5	45	CPH3	869-1129-1-ND	1.06	.82	.72	869-1129-2-ND	3,000	348.00/M	CPH3341-TL-E
	60	1.2	530	CPH3	869-1126-1-ND	.84	.65	.57	869-1126-2-ND	3,000	276.00/M	CPH3324-TL-E
	100	0.6	1.45	CPH3	869-1127-1-ND	.92	.72	.63	869-1127-2-ND	3,000	305.00/M	CPH3327-TL-E
4	12	9.5	16	ECH8	869-1151-1-ND	.99	.78	.71	869-1151-2-ND	3,000	364.00/M	ECH8304-TL-E
	30	7	25	ECH8	869-1150-1-ND	.97	.75	.66	869-1150-2-ND	3,000	319.00/M	ECH8302-TL-E
	60	4	85	ECH8	869-1152-1-ND	1.14	.90	.81	869-1152-2-ND	3,000	420.00/M	ECH8305-TL-E
	100	2	225	ECH8	869-1153-1-ND	1.44	1.14	1.03	869-1153-2-ND	3,000	532.00/M	ECH8306-TL-E
5	12	2.4	120	SCH6	869-1193-1-ND	.97	.75	.66	869-1193-2-ND	5,000	297.00/M	SCH1301-TL-E
	20	2	165	SCH6	869-1194-1-ND	.66	.51	.45	869-1194-2-ND	5,000	203.00/M	SCH1302-TL-E
	20	1	500	SCH6	869-1198-1-ND	.75	.58	.51	869-1198-2-ND	5,000	230.00/M	SCH2830-TL-E
6	20	5	42	CPH6	869-1140-1-ND	.97	.75	.66	869-1140-2-ND	3,000	319.00/M	CPH6311-TL-E
	30	5	59	CPH6	869-1141-1-ND	.75	.58	.51	869-1141-2-ND	3,000	247.00/M	CPH6341-TL-E
7	30	2	145	CPH5	869-1134-1-ND	.66	.51	.45	869-1134-2-ND	3,000	218.00/M	CPH5852-TL-E
8	20	3	83	MCPH3	869-1169-1-ND	.72	.51	.43	869-1169-2-ND	3,000	202.00/M	MCH3377-TL-E
9	20	4.5	49	MCPH6	869-1177-1-ND	.75	.58	.51	869-1177-2-ND	3,000	247.00/M	MCH6337-TL-E
10	60	12	135	TO-220ML	869-1054-ND†	1.64	1.33	1.20	—	—	—	2SJ650
	60	20	60	TO-220ML	869-1055-ND†	1.58	1.26	1.11	—	—	—	2SJ651
	100	12	136	TO-220ML	869-1052-ND†	1.58	1.26	1.11	—	—	—	2SJ655
	100	18	75.5	TO-220ML	869-1053-ND†	2.20	1.78	1.60	—	—	—	2SJ656
N-Channel												
1	30	50	12	ATPAK	869-1078-1-ND	1.67	1.32	1.19	869-1078-2-ND	3,000	616.00/M	ATP202-TL-H
	30	75	8.2	ATPAK	869-1079-1-ND	1.93	1.49	1.35	869-1079-2-ND	3,000	743.00/M	ATP203-TL-H
	30	100	5.6	ATPAK	869-1080-1-ND	2.66	2.06	1.87	869-1080-2-ND	3,000	1026.00/M	ATP204-TL-H
	40	40	16	ATPAK	869-1081-1-ND	1.67	1.32	1.19	869-1081-2-ND	3,000	616.00/M	ATP206-TL-H
	40	65	9.1	ATPAK	869-1082-1-ND	1.93	1.49	1.35	869-1082-2-ND	3,000	743.00/M	ATP207-TL-H
	40	90	6.0	ATPAK	869-1083-1-ND	2.28	1.76	1.60	869-1083-2-ND	3,000	878.00/M	ATP208-TL-H
	60	35	23	ATPAK	869-1084-1-ND	1.75	1.35	1.23	869-1084-2-ND	3,000	675.00/M	ATP212-TL-H
	60	50	16	ATPAK	869-1085-1-ND	2.14	1.65	1.50	869-1085-2-ND	3,000	824.00/M	ATP213-TL-H
	60	95	7.2	ATPAK	869-1087-1-ND	3.05	2.35	2.14	869-1087-2-ND	3,000	1175.00/M	ATP404-TL-H
	100	40	33	ATPAK	869-1088-1-ND	3.05	2.35	2.14	869-1088-2-ND	3,000	1175.00/M	ATP405-TL-H
2	525	7.5	.92	ZP	869-1091-1-ND	2.84	2.19	1.99	869-1091-2-ND	1,500	1175.00/M	2SK4181-TL-E
3	30	6.5	24	CPH3	869-1133-1-ND	.99	.78	.71	869-1133-2-ND	3,000	364.00/M	CPH3442-TL-E
	60	2	220	CPH3	869-1132-1-ND	1.06	.82	.72	869-1132-2-ND	3,000	348.00/M	CPH3430-TL-E
	100	1	630	CPH3	869-1131-1-ND	.84	.65	.57	869-1131-2-ND	3,000	276.00/M	CPH3427-TL-E
4	20	9	16	ECH8	869-1155-1-ND	.99	.78	.71	869-1155-2-ND	3,000	364.00/M	ECH8411-TL-E
	30	10	15	ECH8	869-1154-1-ND	.97	.75	.66	869-1154-2-ND	3,000	319.00/M	ECH8402-TL-E
5	30	1.6	180	SCH6	869-1197-1-ND	.61	.43	.37	869-1197-2-ND	5,000	160.00/M	SCH2825-TL-E
6	20	6	26	CPH6	869-1142-1-ND	1.06	.82	.72	869-1142-2-ND	3,000	348.00/M	CPH6411-TL-E

† Bulk ‡ Box § Tray

(Continued)

Fig.	V_{DSS} (V)	I_D (A)	R_{DS} (on) mΩ	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
						1	25	100		Qty.	Pricing	
6	30	6	41	CPH6	869-1144-1-ND	1.06	.84	.76	869-1144-2-ND	3,000	392.00/M	CPH6434-TL-E
	60	2	220	CPH6	869-1143-1-ND	.92	.72	.63	869-1143-2-ND	3,000	305.00/M	CPH6429-TL-E
8	20	4	52	MCPH3	869-1171-1-ND	.84	.65	.57	869-1171-2-ND	3,000	276.00/M	MCH3427-TL-E
	30	1.8	180	MCPH3	869-1172-1-ND	.72	.51	.43	869-1172-2-ND	3,000	202.00/M	MCH3475-TL-E
	100	0.8	890	MCPH3	869-1170-1-ND	.75	.58	.51	869-1170-2-ND	3,000	247.00/M	MCH3421-TL-E
9	20	6	28	MCPH6	869-1179-1-ND	.84	.65	.57	869-1179-2-ND	3,000	276.00/M	MCH6429-TL-E
	30	5	41	MCPH6	869-1178-1-ND	.84	.65	.57	869-1178-2-ND	3,000	276.00/M	MCH6412-TL-E
10	60	18	55	TO-220ML	869-1049-ND†	1.74	1.40	1.26	—	—	—	2SK3702
	100	20	60	TO-220ML	869-1038-ND†	2.05	1.65	1.49	—	—	—	2SK3707
	100	30	33	TO-220ML	869-1039-ND†	2.83	2.28	2.08	—	—	—	2SK3708
	100	37	25	TO-220ML	869-1040-ND†	3.67	2.95	2.69	—	—	—	2SK3709
11	60	0.2	2900	0403 (4 lead)	869-1148-1-ND	.61	.43	.37	869-1148-2-ND	10,000	149.00/M	EC4406C-TL-H
12	30	14	10	SOP8	869-1164-1-ND	1.44	1.14	1.03	869-1164-2-ND	1,000	570.00	FSS804-TL-E
	45	8	22	SOP8	869-1162-1-ND	1.79	1.41	1.27	869-1162-2-ND	1,000	705.00	FSS273-TL-E
	60	6	43	SOP8	869-1163-1-ND	1.29	1.02	.92	869-1163-2-ND	1,000	510.00	FSS275-TL-E
	100	4	85	SOP8	869-1161-1-ND	1.56	1.23	1.11	869-1161-2-ND	1,000	615.00	FSS264-TL-E
13	20	0.001	—	VTFP3	869-1205-1-ND	.53	.31	.25	869-1205-2-ND	8,000	85.00/M	TF252TH-5-TL-H
14	40	0.02	—	SPA	869-1018-ND‡	.52	.39	.33	—	—	—	2SK772E-AC
	50	0.1	20000	SPA	869-1019-ND‡	.62	.46	.39	—	—	—	2SK669-AC
15	60	100	5	TO-220	869-1047-ND†	4.12	3.31	3.02	—	—	—	2SK4094
	60	100	7.2	TO-220	869-1048-ND†	3.67	2.95	2.69	—	—	—	2SK4171
16	60	0.2	2900	SSFP	869-1119-1-ND	.58	.38	.32	869-1119-2-ND	8,000	124.00/M	6LN04SS-TL-H
17	40	0.02	—	CP3	869-1111-1-ND	.75	.58	.51	869-1111-2-ND	3,000	247.00/M	2SK771-5-TB-E
	50	0.1	20000	CP3	869-1110-1-ND	.88	.68	.60	869-1110-2-ND	3,000	290.00/M	2SK536-TB-E
18	20	2	145	MCPH5	869-1174-1-ND	.50	.35	.30	869-1174-2-ND	3,000	140.00/M	MCH5837-TL-E
19	60	90	5	TO-220FI	869-1050-ND†	4.48	3.60	3.28	—	—	—	2SK4073LS
	500	14	520	TO-220FI	869-1041-ND†	2.14	1.73	1.56	—	—	—	2SK4084LS
	500	16	430	TO-220FI	869-1042-ND†	2.64	2.13	1.92	—	—	—	2SK4085LS
	500	8	850	TO-220FI	869-1043-ND†	1.51	1.21	1.06	—	—	—	2SK4096LS
	500	9.5	650	TO-220FI	869-1044-ND†	1.74	1.40	1.26	—	—	—	2SK4097LS
20	500	20	430	TO-3PB	869-1070-ND§	3.95	3.18	2.90	—	—	—	2SK4124
	600	17	610	TO-3PB	869-1071-ND§	4.20	3.38	3.08	—	—	—	2SK4125
N/P-Channel												
4	60	3/2	93	ECH8	869-1156-1-ND	1.29	1.02	.92	869-1156-2-ND	3,000	476.00/M	ECH8619-TL-E
	100	2/1.5	260	ECH8	869-1157-1-ND	1.29	1.02	.92	869-1157-2-ND	3,000	476.00/M	ECH8620-TL-E
6	30	2.5/1.8	105	CPH6	869-1145-1-ND	.84	.65	.57	869-1145-2-ND	3,000	276.00/M	CPH6615-TL-E
9	20	1.6/1	230	MCPH6	869-1180-1-ND	.77	.54	.47	869-1180-2-ND	3,000	217.00/M	MCH6626-TL-E
12	30	6/5	33	SOP8	869-1167-1-ND	1.22	.96	.87	869-1167-2-ND	1,000	480.00	FW342-TL-E
	45	5/4.5	37	SOP8	869-1168-1-ND	1.79	1.41	1.27	869-1168-2-ND	1,000	705.00	FW349-TL-E
Dual N-Channel												
4	24	10	14	ECH8	869-1158-1-ND	.97	.75	.66	869-1158-2-ND	3,000	319.00/M	ECH8651R-TL-H
	24	9	17	ECH8	869-1160-1-ND	.92	.72	.63	869-1160-2-ND	3,000	305.00/M	ECH8655R-TL-H
6	30	2.5	105	CPH6	869-1146-1-ND	.75	.58	.51	869-1146-2-ND	3,000	247.00/M	CPH6616-TL-E
12	20	8	23	SOP8	869-1165-1-ND	1.96	1.52	1.38	869-1165-2-ND	1,000	812.00	FW231A-TL-E
	45	6	34	SOP8	869-1166-1-ND	1.86	1.47	1.33	869-1166-2-ND	1,000	735.00	FW248-TL-E
Dual P-Channel												
4	20	5	38	ECH8	869-1159-1-ND	.99	.78	.71	869-1159-2-ND	3,000	364.00/M	ECH8654-TL-H

Fig.	V_{DSX} (V)	I_D (A)	PD (mW)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
						1	25	100		Qty.	Pricing	
RF FETS												
17	15	30	200	CP3	869-1108-1-ND	.58	.38	.32	869-1108-2-ND	3,000	132.00/M	2SK3720-5-TB-E
	15	50	200	CP3	869-1106-1-ND	.77	.54	.47	869-1106-2-ND	3,000	217.00/M	2SK3557-7-TB-E
	30	10	200	CP3	869-1107-1-ND	.53	.31	.25	869-1107-2-ND	3,000	90.00/M	2SK3666-3-TB-E
21	15	30	200	CP4	869-1115-1-ND	.72	.51	.43	869-1115-2-ND	3,000	202.00/M	3SK263-5-TG-E
22	15	30	150	MCP	869-1109-1-ND	.44	.29	.24	869-1109-2-ND	3,000	99.00/M	2SK3737-5-TL-E

† Bulk ‡ Box § Tray

Transistors

Dimensions in mm

Fig. 1

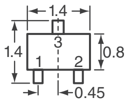

Fig. 2

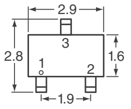

Fig. 3

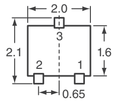

Fig. 4

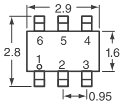

Fig. 5

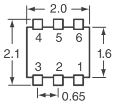

Fig. 6

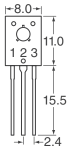

Fig. 7

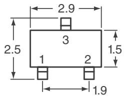

Fig. 8

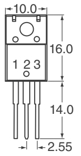

Fig. 9

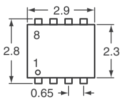

Fig. 10

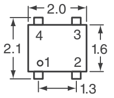

Fig. 11

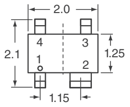

Fig. 12

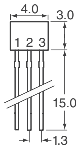

Fig. 13

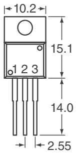

Fig. 14

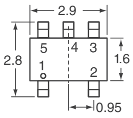

Fig. 15

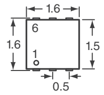

Fig.	V_{CB} (V)	I_C (mA)	h_{FE} Min	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
						1	25	100		Qty.	Pricing	
PNP												
1	30	300	200	SSFP	869-1112-1-ND	.51	.34	.28	869-1112-2-ND	8,000	109.00/M	30A01SS-TL-E
2	50	2000	200	CPH3	869-1120-1-ND	.66	.51	.45	869-1120-2-ND	3,000	218.00/M	CPH3145-TL-E
	100	2000	200	CPH3	869-1121-1-ND	.66	.51	.45	869-1121-2-ND	3,000	218.00/M	CPH3148-TL-E

† Bulk ‡ Box

(Continued)

Fig.	VCB (V)	IC (mA)	hFE Min	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Sanyo Part No.
3	50	500	200	MCPH3	869-1118-1-ND	.58	.38	.32	869-1118-2-ND	3,000	132.00/M	50A02MH-TL-E
4	30	300	15	CPH6	869-1136-1-ND	2.77	2.14	1.94	869-1136-2-ND	3,000	1067.00/M	CPH6005-TL-E
	50	3000	200	CPH6	869-1139-1-ND	.66	.51	.45	869-1139-2-ND	3,000	218.00/M	CPH6123-TL-E
5	30	1500	200	MCPH6	869-1175-1-ND	.75	.58	.51	869-1175-2-ND	3,000	247.00/M	MCH6102-TL-E
	30	700	200	MCPH6	869-1181-1-ND	.75	.58	.51	869-1181-2-ND	3,000	247.00/M	MCH6935-TL-E
6	30	300	15	TO-126	869-1062-ND†	4.42	3.56	3.24	—	—	—	2SA1723
	200	150	100	TO-126	869-1061-ND†	2.11	1.70	1.53	—	—	—	2SA1407E
7	15	50	60	CP3	869-1101-1-ND	1.06	.82	.72	869-1101-2-ND	3,000	348.00/M	2SA1778-3-TB-E
	15	50	90	CP3	869-1102-1-ND	.72	.51	.43	869-1102-2-ND	3,000	202.00/M	2SA1815-4-TB-E
	20	50	15	CP3	869-1100-1-ND	1.37	1.08	.98	869-1100-2-ND	3,000	504.00/M	2SA1669-TB-E
8	50	5000	200	TO-200ML	869-1063-ND†	.98	.79	.69	—	—	—	2SA2180
	60	3000	100	TO-200ML	869-1064-ND†	.88	.69	.60	—	—	—	2SB1274R
	60	3000	140	TO-200ML	869-1065-ND†	.88	.69	.60	—	—	—	2SB1274S
NPN												
1	9	35	80	SSFP	869-1105-1-ND	.66	.51	.45	—	—	—	2SC6024-TL-E
	40	400	300	SSFP	869-1113-1-ND	.51	.34	.28	869-1113-2-ND	8,000	109.00/M	30C01SS-TL-E
	30	30	60	SSFP	869-1114-1-ND	.58	.38	.32	869-1114-2-ND	8,000	124.00/M	3MN03SF-TL-E
2	15	6000	250	CPH3	869-1122-1-ND	1.14	.90	.81	869-1122-2-ND	3,000	420.00/M	CPH3237-TL-E
	40	5000	250	CPH3	869-1123-1-ND	1.14	.90	.81	869-1123-2-ND	3,000	420.00/M	CPH3238-TL-E
	100	5000	250	CPH3	869-1124-1-ND	1.14	.90	.81	869-1124-2-ND	3,000	420.00/M	CPH3239-TL-E
	200	100	60	CPH3	869-1116-1-ND	.66	.51	.45	—	—	—	4MN10CH-TL-E
	700	1000	100	CPH3	869-1125-1-ND	.50	.35	.30	869-1125-2-ND	3,000	140.00/M	CPH3249-TL-E
4	30	300	100	CPH6	869-1137-1-ND	1.22	.96	.87	869-1137-2-ND	3,000	448.00/M	CPH6006-TL-E
5	40	1500	200	MCPH6	869-1176-1-ND	.66	.51	.45	869-1176-2-ND	3,000	218.00/M	MCH6202-TL-E
6	200	150	100	TO-126	869-1056-ND†	2.11	1.70	1.53	—	—	—	2SC3601E
7	30	30	90	CP3	869-1103-1-ND	.44	.29	.24	869-1103-2-ND	3,000	99.00/M	2SC2814-4-TB-E
8	60	15000	200	TO-200ML	869-1058-ND†	1.51	1.21	1.06	—	—	—	2SC6082
	60	5000	200	TO-200ML	869-1059-ND†	.98	.79	.69	—	—	—	2SC6081
	60	3000	140	TO-200ML	869-1066-ND†	.96	.75	.65	—	—	—	2SD1913S
9	100	5000	250	VEC8	869-1216-1-ND	.97	.75	.66	—	—	—	VEC2901-TL-E
10	10	40	50	MCPH4	869-1173-1-ND	.51	.34	.28	869-1173-2-ND	3,000	116.00/M	MCH4009-TL-E
11	9	35	80	MCP4	869-1104-1-ND	.66	.51	.45	—	—	—	2SC6023-TR-E
12	30	30	100	SPA	869-1020-ND‡	.39	.26	.21	—	—	—	2SC2839E-SPA-AC
13	1500	5000	10	TO-220	869-1060-ND†	1.44	1.15	1.01	—	—	—	2SC6084
14	55	150	135	CPH5	869-1135-1-ND	.66	.51	.45	869-1135-2-ND	3,000	218.00/M	CPH5905G-TL-E
NPN/PNP												
4	30	300	100	CPH6	869-1138-1-ND	3.36	2.60	2.36	869-1138-2-ND	3,000	1296.00/M	CPH6071-TL-E
2 PNP												
9	30	3000	200	VEC8	869-1215-1-ND	1.03	.81	.73	869-1215-2-ND	3,000	378.00/M	VEC2102-TL-E
15	15	500	300	SCH6	869-1195-1-ND	.72	.51	.43	869-1195-2-ND	5,000	189.00/M	SCH2102-TL-E
2 NPN												
15	20	800	300	SCH6	869-1196-1-ND	.66	.51	.45	869-1196-2-ND	5,000	203.00/M	SCH2201-TL-E

† Bulk ‡ Box

Diodes

Digi-Reel® RoHS

Dimensions in mm

Fig. 1

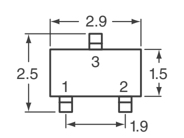

Fig. 2

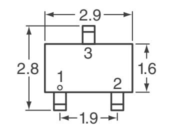

Fig. 3

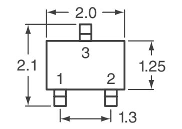

Fig. 4

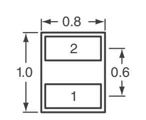

Fig. 5

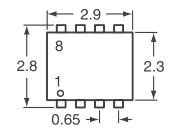

Fig. 6

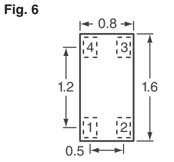

Fig. 7

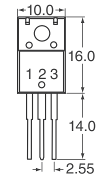

Fig. 8

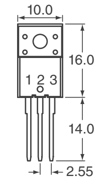

Fig. 9

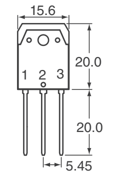

Fig. 10

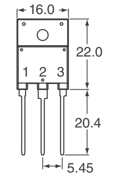

Fig. 11

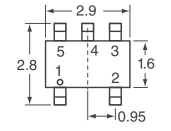

Fig. 12

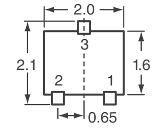

Fig.	VRRM (V)	IF (A)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Sanyo Part No.
Schottky											
1	2	.05	CP3	869-1192-1-ND	1.79	1.41	1.27	869-1192-2-ND	3,000	658.00/M	SBX201C-TB-E
	5	.03	CP3	869-1095-1-ND	.72	.51	.43	869-1095-2-ND	3,000	202.00/M	1SS351-TB-E
	10	.035	CP3	869-1096-1-ND	1.06	.82	.72	869-1096-2-ND	3,000	348.00/M	1SS366-TB-E
2	30	.2	CPH3	869-1182-1-ND	.75	.58	.51	869-1182-2-ND	3,000	247.00/M	SB02W03CH-TL-E
3	10	.035	MCP	869-1097-1-ND	.84	.65	.57	869-1097-2-ND	3,000	276.00/M	1SS375-TL-E

† Bulk § Tray

(Continued)

Fig.	V_{RRM} (V)	I_F (A)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
					1	25	100		Qty.	Pricing	
4	30	.5	0403 (2 lead)	869-1183-1-ND	.50	.35	.30	869-1183-2-ND	10,000	131.00/M	SB0503EC-TR
	30	.5	0403 (2 lead)	869-1199-1-ND	.50	.35	.30	869-1199-2-ND	10,000	131.00/M	SS0503EC-TR-H
5	30	2	VEC8	869-1190-1-ND	.92	.72	.63	869-1190-2-ND	3,000	305.00/M	SBS811-TL-E
	30	3	VEC8	869-1191-1-ND	1.06	.84	.76	869-1191-2-ND	3,000	392.00/M	SBS813-TL-E
	90	.5	VEC8	869-1184-1-ND	1.06	.84	.76	869-1184-2-ND	3,000	392.00/M	SB0509V-TL-E
6	30	1	0603 (4 lead)	869-1185-1-ND	.72	.51	.43	869-1185-2-ND	8,000	189.00/M	SB1003EJ-TR
	30	1	0603 (4 lead)	869-1200-1-ND	.50	.35	.30	869-1200-2-ND	8,000	131.00/M	SS1003EJ-TR
7	40	10	TO-220ML	869-1030-ND†	1.74	1.40	1.26	—	—	—	SBJ100-04J
	40	15	TO-220ML	869-1031-ND†	1.51	1.21	1.06	—	—	—	SBT150-04J
	40	25	TO-220ML	869-1032-ND†	1.65	1.32	1.16	—	—	—	SBT250-04J
	40	8	TO-220ML	869-1033-ND†	1.05	.84	.74	—	—	—	SBT80-04J
	60	15	TO-220ML	869-1034-ND†	1.33	1.07	.94	—	—	—	SBT150-06J
	60	25	TO-220ML	869-1035-ND†	1.37	1.10	.96	—	—	—	SBT250-06J
	60	35	TO-220ML	869-1036-ND†	2.91	2.35	2.12	—	—	—	SBT350-06J
	100	10	TO-220ML	869-1024-ND†	.98	.79	.69	—	—	—	SBR100-10J
	100	16	TO-220ML	869-1026-ND†	1.74	1.40	1.26	—	—	—	SBR160-10J
	100	25	TO-220ML	869-1027-ND†	2.39	1.93	1.74	—	—	—	SBR250-10J
	100	25	TO-220ML	869-1028-ND†	1.98	1.60	1.44	—	—	—	SBT250-10J
	160	10	TO-220ML	869-1021-ND†	.98	.79	.69	—	—	—	SBR100-16JS
	160	10	TO-220ML	869-1022-ND†	1.37	1.10	.96	—	—	—	SBT100-16JS
	160	20	T0-220ML	869-1023-ND†	1.74	1.40	1.26	—	—	—	SBR200-16JS
8	60	8	TO-220FI	869-1037-ND†	.76	.59	.52	—	—	—	SBT80-06LS
	100	8	TO-220FI	869-1029-ND†	.98	.79	.69	—	—	—	SBT80-10LS
9	40	35	TO-3PB	869-1068-ND§	3.53	2.84	2.59	—	—	—	SBT350-04L
	100	35	TO-3PB	869-1067-ND§	3.89	3.13	2.85	—	—	—	SBT350-10L
10	40	35	TO-3PML	869-1069-ND§	3.25	2.61	2.38	—	—	—	SBT350-04R
11	15	1	CPH5	869-1189-1-ND	.75	.58	.51	869-1189-2-ND	3,000	247.00/M	SBS804-TL-E
	30	.5	CPH5	869-1186-1-ND	.84	.65	.57	869-1186-2-ND	3,000	276.00/M	SBE805-TL-E
	30	1	CPH5	869-1188-1-ND	.66	.51	.45	869-1188-2-ND	3,000	218.00/M	SBE807-TL-E
	50	.1	CPH5	869-1187-1-ND	.75	.58	.51	869-1187-2-ND	3,000	247.00/M	SBE806-TL-E
Pin											
1	50	.05	CP3	869-1098-1-ND	.72	.51	.43	869-1098-2-ND	3,000	202.00/M	1SV250-TB-E
	50	.05	CP3	869-1099-1-ND	.72	.51	.43	869-1099-2-ND	3,000	202.00/M	1SV251-TB-E

Fig.	@VR (V) CD @ 1MHz	PF (Max)	@VR (V) CD @ 1MHz	PF (Max)	VR (V)	IR (nA) Max	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
									1	25	100		Qty.	Pricing	
Varactors															
2	1	540	6.5	27	33	100	CPH3	869-1202-1-ND	1.22	.96	.87	869-1202-2-ND	3,000	448.00/M	SVC383T-TL-E
	1	525	8	24	16	100	CPH3	869-1203-1-ND	.79	.62	.54	869-1203-2-ND	3,000	261.00/M	SVC389-TL-E
4	1	21.5	4	4.5	15	20	0403 (2 lead)	869-1147-1-ND	.66	.47	.40	—	—	—	EC2C01C-TR
12	1	21.5	4	4.8	15	20	MCPH3	869-1204-1-ND	.44	.29	.24	869-1204-2-ND	3,000	99.00/M	SVC710-TL-E
	2	79.77	8	23.78	16	50	MCPH3	869-1201-1-ND	.51	.37	.31	869-1201-2-ND	3,000	145.00/M	SVC276-TL-E

† Bulk § Tray

IC Driver

Dimensions in mm

Fig. 1

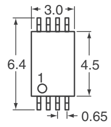

Fig. 2

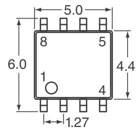

Fig. 3

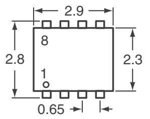

Fig. 4

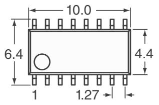

Fig.	V_{DD} (V)	P_D (W) Max	I out (A)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
						1	25	100		Qty.	Pricing	
1	4.5-25	0.25	1	TSSOP8	869-1094-1-ND	1.14	.90	.81	869-1094-2-ND	3,000	420.00/M	TND307TD-TL-E
2	40	1.7	1.5	SOP8	869-1206-1-ND	1.63	1.29	1.17	869-1206-2-ND	1,000	645.00	TND027SW-TL-E
	4.5-25	0.3	2	SOP8	869-1209-1-ND	1.44	1.14	1.03	869-1209-2-ND	1,000	570.00	TND311S-TL-E
	4.5-25	0.3	2	SOP8	869-1210-1-ND	1.44	1.14	1.03	869-1210-2-ND	1,000	570.00	TND312S-TL-E
3	4.5-25	0.2	0.8	VEC8	869-1211-1-ND	1.06	.84	.76	869-1211-2-ND	3,000	392.00/M	TND321VD-TL-E
4	0.3-25	0.9	.25	MFP16	869-1212-1-ND	3.54	2.90	2.60	869-1212-2-ND	1,000	1652.00	TND505MD-TL-E
	0.3-25	0.9	.25	MFP16	869-1213-1-ND	3.39	2.77	2.49	869-1213-2-ND	1,000	1582.00	TND506MD-TL-E
	10-20	0.9	.20	MFP16	869-1214-1-ND	5.07	4.15	3.72	869-1214-2-ND	1,000	2366.00	TND512MD-TL-E

IGBT

Dims in mm

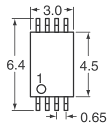

V_{CES} (V)	I_C (A)	Input Capacitance	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sanyo Part No.
					1	25	100		Qty.	Pricing	
400	150	2610pF	TSSOP8	869-1092-1-ND	1.22	.96	.87	869-1092-2-ND	3,000	448.00/M	TIG030TS-TL-E
400	150	5100pF	TSSOP8	869-1093-1-ND	1.44	1.14	1.03	869-1093-2-ND	3,000	532.00/M	TIG032TS-TL-E

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

Fig. 1 — TO-220

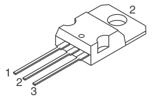

Fig. 2 — TO-247

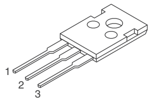

Fig. 3 — D2PAK

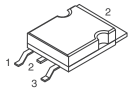

Fig. 4 — DPAK

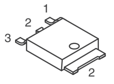

Fig. 5 — ISOTOP

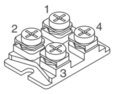

Fig. 6 — TO-220FP, TO-3PF

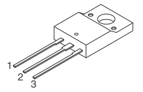

Fig. 7 — 8-SOIC, TSSOP-8

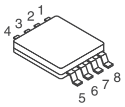

Fig. 8 — Max247™

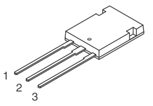

Fig. 9 — SOT23-3L

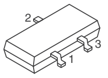

Fig. 10 — TO-92

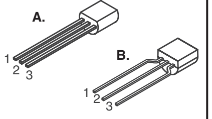

Fig. 11 — IPAK, TO-251

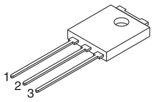

Fig. 12 — PowerSO-10

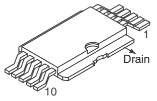

Fig. 13 — SOT-223

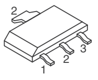

Fig. 14 — I2PAK

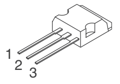

Fig. 15 — PowerFLAT™ (5 x 5 or 6 x 5)

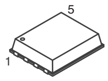

Fig. 16 — PowerFLAT™ (3.3 x 3.3)

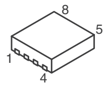

Fig. 17 — ClipPak™

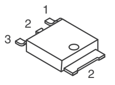

Fig. 18 — PolarPAK®

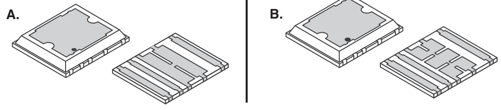

Fig. 19 — SEMITOP®2

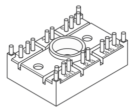

Fig. 20 — PowerSO-10RF

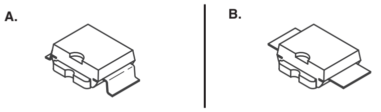

Fig. 21 — TO247-4

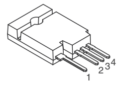

Fig. 22 — M113, M174

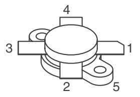

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro. Part No.
					1	10	100		
N-Channel									
TO-220									
1	24	120	.0022	497-7519-5-ND◆	4.10	36.61	300.17	—	STP300NH02L
	25	80	.0049	497-9093-5-ND ***NEW!***	1.66	15.01	120.60	—	STP95N2LH5
	30	22	.05	497-7516-5-ND◆	1.10	9.77	77.18	—	STP22NF03L
	30	27	.020	497-9095-5-ND◆ ***NEW!***	.96	8.46	66.89	—	STP27N3LH5
	30	40	.022	497-3187-5-ND◆	1.44	12.71	100.45	—	STP40NF03L
	30	80	.0054	497-8451-5-ND◆	1.79	16.18	130.05	—	STP85N3LH5
	30	80	.0028	497-9097-5-ND◆ ***NEW!***	2.89	25.78	211.36	—	STP150N3LLH6
	30	80	.0042	497-10307-5-ND◆ ***NEW!***	1.69	15.29	122.85	—	STP95N3LLH6
	30	90	.0065	497-7535-5-ND◆	2.90	26.18	210.38	—	STP90NF03L
	30	120	.0037	497-6738-5-ND◆	2.88	25.68	210.54	—	STP200NF03
	40	80	.0065	497-7534-5-ND◆	1.82	16.41	131.85	—	STP90N4F3
	40	80	.0065	497-7536-5-ND◆	2.34	21.17	170.10	—	STP95N4F3
	40	80	.0070	497-10075-5-ND◆ ***NEW!***	3.18	28.40	232.88	—	STP150NF04
	40	120	.0037	497-3524-5-ND◆	3.53	31.50	258.30	—	STP200NF04
	40	120	.0038	497-4819-5-ND◆	2.91	26.00	213.20	—	STP200NF04L
	40	120	.0044	497-8789-5-ND◆	4.41	39.38	322.88	—	STP200N4F3
	40	120	.0046	497-7497-5-ND◆	3.23	28.88	236.78	—	STP100NF04
	55	80	.005	497-5898-5-ND◆	2.88	25.68	210.54	—	STP80NF55L-06
	55	80	.0065	497-2774-5-ND◆	2.62	23.69	190.35	—	STP80NF55-06
	55	80	.008	497-3202-5-ND	2.44	22.06	177.30	—	STP80NF55-08
	55	80	.008	497-4370-5-ND◆	2.55	23.02	184.95	—	STP140NF55
	55	80	.008	497-6744-5-ND◆	2.44	22.06	177.30	—	STP85NF55
	55	80	.008	497-7023-5-ND◆	3.23	28.88	236.78	—	STP141NF55
	55	80	.008	497-7532-5-ND◆	2.94	26.25	215.25	—	STP85NF55L
	55	80	8.5	497-7528-5-ND◆	2.60	23.52	189.00	—	STP60N55F3
	55	120	.0037	497-8810-5-ND◆	6.76	60.38	495.08	—	STP190N55LF3
	55	120	.0038	497-7512-5-ND◆	5.00	44.63	365.93	—	STP180N55F3
	55	120	.0038	497-7513-5-ND◆	6.47	57.75	473.55	—	STP185N55F3
	55	120	.005	497-6117-5-ND◆	3.97	35.45	290.69	—	STP150NF55
	60	16	.1	497-2766-5-ND◆	.84	7.35	56.70	—	STP16NF06
	60	16	.09	497-2765-5-ND◆	.92	8.15	64.44	—	STP16NF06L
	60	20	.07	497-4374-5-ND◆	1.16	10.29	81.34	—	STP20NF06
	60	20	.07	497-4375-5-ND◆	1.16	10.29	81.34	—	STP20NF06L
	60	30	.04	497-3186-5-ND◆	1.10	9.77	77.18	—	STP36NF06
	60	30	.04	497-7522-5-ND◆	1.47	13.02	102.90	—	STP36NF06L
	60	38	.028	497-3189-5-ND◆	1.19	10.51	83.06	—	STP45NF06
	60	50	.018	497-2777-5-ND◆	1.27	11.25	88.94	—	STP55NF06
	60	55	.018	497-6742-5-ND◆	1.48	13.14	103.88	—	STP55NF06L
	60	60	.016	497-2779-5-ND◆	1.61	14.56	117.00	—	STP60NF06
	60	60	.014	497-5895-5-ND◆	1.62	14.59	117.23	—	STP60NF06L
	60	60	.014	497-7529-5-ND◆	1.57	13.89	109.76	—	STP65NF06
	60	80	.010	497-3201-5-ND	2.81	25.40	204.08	—	STP80NF06
	60	120	.0039	497-9096-5-ND◆ ***NEW!***	4.79	42.78	350.76	—	STP200N6F3
	75	80	.011	497-2788-5-ND◆	2.28	20.58	165.38	—	STP75NF75
	75	120	.004	497-7508-5-ND◆	4.56	40.70	333.74	—	STP160N75F3
	75	120	.0065	497-5894-5-ND◆	2.93	26.46	212.63	—	STP140NF75
1	100	15	.13	497-7506-5-ND◆	.88	7.81	61.74	—	STP14NF10
	100	26	.060	497-3185-5-ND◆	1.35	12.00	94.82	—	STP24NF10
	100	35	.045	497-7520-5-ND◆	1.35	12.00	94.82	—	STP30NF10
	100	40	.033	497-6741-5-ND◆	2.28	20.58	165.38	—	STP40NF10L
	100	40	.035	497-2645-5-ND◆	1.51	13.36	105.60	—	STP35NF10
	100	50	.028	497-3188-5-ND◆	2.05	18.54	148.95	—	STP40NF10
	100	65	.0195	497-8812-5-ND◆	1.69	15.29	122.85	—	STP70N10F4
	100	80	.023	497-4384-5-ND◆	2.79	25.17	202.28	—	STP60NF10
	100	80	.015	497-2642-5-ND◆	2.90	26.18	210.38	—	STP80NF10
	100	110	.0105	497-4118-5-ND◆	2.82	25.20	206.64	—	STP120NF10
	120	40	.032	497-4381-5-ND◆	1.87	16.91	135.90	—	STP40NF12
	120	80	.018	497-6743-5-ND◆	2.96	26.74	214.88	—	STP80NF12
	200	9	.40	497-2757-5-ND◆	1.10	9.77	77.18	—	IRF630
	200	15	.16	497-7514-5-ND◆	1.79	16.18	130.05	—	STP19NF20
	200	18	.125	497-5812-5-ND◆	1.99	17.95	144.23	—	STP20NF20
	200	30	.075	497-5825-5-ND◆	2.64	23.83	191.48	—	STP30NF20
	200	40	.045	497-5806-5-ND◆	3.25	29.00	237.80	—	STP40NF20
	200	75	.034	497-5958-5-ND◆	3.72	33.23	272.45	—	STP75NF20
	250	13	.235	497-7509-5-ND◆	1.66	15.01	120.60	—	STP16NF25
	250	17	.165	497-7511-5-ND◆	2.12	19.12	153.68	—	STP17NF25
	250	22	.15	497-6740-5-ND◆	2.44	22.06	177.30	—	STP22NS25Z
	250	45	.069	497-7526-5-ND◆	3.97	35.45	290.69	—	STP50NF25
	300	9	.4	497-7502-5-ND◆	1.95	17.64	141.75	—	STP12NK30Z
	300	30	.090	497-7521-5-ND◆	6.30	56.70	466.20	—	STP30NM30N
	400	5.4	1	497-3200-5-ND◆	1.56	14.11	113.40	—	STP7NK40Z
	400	10	.55	497-7500-5-ND◆	1.95	17.64	141.75	—	STP11NK40Z
	500	3	2.7	497-3190-5-ND◆	.98	8.65	68.36	—	STP4NK50Z
	500	3	2.7	497-5131-5-ND◆	1.66	14.66	115.89	—	STP4NK50ZD
	500	4.4	1.5	497-3195-5-ND◆	1.19	10.51	83.06	—	STP5NK50Z
	500	5.6	1.2	497-4385-5-ND◆	1.18	10.42	82.32	—	STP6NK50Z
	500	7.2	.85	497-3203-5-ND◆	2.28	20.58	165.38	—	STP9NK50Z
	500	11	.48	497-7504-5-ND◆	2.52	22.50	184.46	—	STP13NK50Z
	500	12	.35	497-2666-5-ND◆	4.12	36.75	301.35	—	STP12NM50
	500	14	.38	497-4526-5-ND◆	3.53	31.50	258.30	—	STP14NK50Z
	500	17	.27	497-7515-5-ND◆	4.70	42.00	344.40	—	STP20NK50Z
	500	20	.25	497-2663-5-ND◆	5.44	48.58	398.32	—	STP20NM50
	500	20	.25	497-6739-5-ND◆	6.47	57.75	473.55	—	STP20NM50FD
	500	22	.14	497-4672-5-ND◆	6.96	62.62	514.86	—	STP25NM50N
	520	4.4	1.22	497-5953-5-ND◆	1.36	12.06	95.31	—	STP5NK52ZD
	525	6.2	.98	497-9094-5-ND◆ ***NEW!***	2.34	21.17	170.10	—	STP7N52K3
	550	5	.78	497-7531-5-ND◆	2.31	20.89	167.85	—	STP7NM50N
	550	7.5	.56	497-7537-5-ND◆	2.00	18.05	145.04	—	STP9NM50N
	550	12	.32	497-7505-5-ND◆	2.84	25.36	207.94	—	STP13NM50N
	550	15	.26	497-7510-5-ND◆	3.44	30.68	251.54	—	STP16NM50N
	550	27	.115	497-8790-5-ND◆	10.24	92.14	757.58	—	STP30NM50N

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape *(Continued)*

MOSFETs *(Cont.)*

Fig.	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro. Part No.
					1	10	100		
1	600	1.4	8	497-4377-5-ND◆	.76	6.62	51.03	—	STP2NK60Z
	600	2.4	3.6	497-7525-5-ND◆	1.47	13.02	102.90	—	STP3NK60Z
	600	4	2	497-3191-5-ND◆	1.27	11.25	88.94	—	STP4NK60Z
	600	5	1.6	497-3196-5-ND◆	1.79	16.18	130.05	—	STP5NK60Z
	600	6	1.2	497-3198-5-ND◆	1.69	14.97	118.34	—	STP6NK60Z
	600	7	.95	497-4387-5-ND◆	2.33	21.02	168.91	—	STP9NK60ZD
	600	8	.55	497-9098-5-ND◆ ***NEW!***	2.86	25.87	207.90	—	STP10NM60N
	600	10	.64	497-4817-5-ND◆	1.99	17.95	144.23	—	STP12NK60Z
	600	10	.75	497-4117-5-ND◆	2.86	25.87	207.90	—	STP10NK60Z
	600	11	.45	497-4368-5-ND◆	3.64	32.50	266.50	—	STP11NM60A
	600	11	.45	497-3180-5-ND◆	4.41	39.38	322.88	—	STP11NM60FD
	600	13	.285	497-10305-5-ND◆ ***NEW!***	4.85	43.33	355.27	—	STP18NM60N
	600	13	.55	497-3182-5-ND◆	2.62	23.69	190.35	—	STP13NK60Z
	600	14	.42	497-4372-5-ND◆	2.66	24.02	193.05	—	STP16NK60Z
	600	16	.22	497-10306-5-ND◆ ***NEW!***	6.03	53.83	441.37	—	STP22NM60N
	600	17	.24	497-5019-5-ND◆	6.62	59.08	484.42	—	STP21NM60N
	600	20	.165	497-9064-5-ND◆ ***NEW!***	6.64	59.33	486.47	—	STP26NM60N
	600	20	.29	497-3184-5-ND◆	5.88	52.50	430.50	—	STP20NM60
	620	2.7	2.5	497-8449-5-ND◆	1.63	14.70	118.13	—	STP3N62K3
	620	5.5	1.28	497-8450-5-ND◆	2.64	23.83	191.48	—	STP6N62K3
	620	8.4	.75	497-9099-5-ND◆ ***NEW!***	3.04	27.18	222.84	—	STP10N62K3
	650	4.6	.92	497-7530-5-ND◆	1.64	14.85	119.34	—	STP6NM60N
	650	7	.65	497-8793-5-ND◆	2.70	24.42	196.20	—	STP8NM60ND
	650	8.5	.43	497-10304-5-ND◆ ***NEW!***	3.68	32.83	269.17	—	STP12N65M5
	650	10	.41	497-7503-5-ND◆	3.42	30.50	250.10	—	STP12NM60N
	650	10	.45	497-8442-5-ND◆	3.53	31.50	258.30	—	STP11NM60ND
	650	11	.36	497-8787-5-ND◆	3.88	34.65	284.13	—	STP13NM60N
	650	11	.45	497-2773-5-ND	3.53	31.50	258.30	—	STP11NM60
	650	13	.5	497-4119-5-ND◆	3.66	32.72	268.30	—	STP16NK65Z
	650	14	.299	497-8443-5-ND◆	6.03	53.83	441.37	—	STP15NM60ND
	650	14	.299	497-7507-5-ND◆	3.89	34.77	285.07	—	STP15NM60N
	650	17	.190	497-10077-5-ND◆ ***NEW!***	5.88	52.50	430.50	—	STP21N65M5
	650	17	.22	497-8444-5-ND◆	6.32	56.45	462.89	—	STP21NM60ND
	650	19	.180	497-7517-5-ND◆	6.43	57.89	476.01	—	STP23NM60N
	650	19.5	.180	497-8445-5-ND◆	6.51	58.59	481.74	—	STP23NM60ND
	650	21	.16	497-8446-5-ND◆	7.22	64.98	534.28	—	STP25NM60ND
	650	22	.139	497-10078-5-ND◆ ***NEW!***	6.43	57.89	476.01	—	STP30N65M5
	650	24	.119	497-10079-5-ND◆ ***NEW!***	7.59	68.29	561.48	—	STP32N65M5
	650	25	.13	497-8447-5-ND◆	12.34	111.04	912.98	—	STP30NM60N
	650	25	.13	497-8448-5-ND◆	8.66	77.96	641.03	—	STP30NM60ND
	650	27	.098	497-10080-5-ND◆ ***NEW!***	8.14	73.24	602.18	—	STP35N65M5
	710	9	.48	497-7499-5-ND◆	3.47	30.98	254.00	—	STP10NM65N
	710	12	.299	497-8788-5-ND◆	4.56	40.70	333.74	—	STP16N65M5
	710	12	.38	497-7024-5-ND◆	5.29	47.25	387.45	—	STP14NM65Nw
	710	15.5	.27	497-7025-5-ND◆	6.17	55.13	452.03	—	STP19NM65N
	710	19	.19	497-7026-5-ND◆	6.96	62.62	514.86	—	STP24NM65N
	710	33	.079	497-8791-5-ND◆	11.16	100.42	825.66	—	STP42N65M5
	800	2.5	4.5	497-4379-5-ND◆	1.14	10.14	80.12	—	STP3NK80Z
	800	3	3.5	497-3192-5-ND◆	1.48	13.14	103.88	—	STP4NK80Z
	800	4.3	2.4	497-7527-5-ND◆	1.69	14.97	118.34	—	STP5NK80Z
	800	6.5	1.05	497-8813-5-ND◆	5.59	49.88	408.98	—	STP7NM80
	800	7.5	1.2	497-5133-5-ND◆	2.28	20.56	165.24	—	STP9NK80Z
	800	9	.90	497-7498-5-ND◆	2.88	25.68	210.54	—	STP10NK80Z
	800	10.5	.75	497-6737-5-ND◆	4.12	36.75	301.35	—	STP12NK80Z
	800	11	.4	497-4369-5-ND◆	5.88	52.50	430.50	—	STP11NM80
	800	17	.295	497-10076-5-ND◆ ***NEW!***	6.62	59.08	484.42	—	STP18NM80
	850	6.7	1.4	497-5205-5-ND◆	2.48	22.40	180.00	—	STP8NK85Z
	900	2.1	6.5	497-4378-5-ND◆	1.19	10.51	83.06	—	STP2NK90Z
	900	8	1.3	497-2785-5-ND◆	2.96	26.74	214.88	—	STP9NK90Z
	950	7.2	1.35	497-8792-5-ND◆	4.56	40.70	333.74	—	STP7N95K3
	1000	1.85	8.5	497-7518-5-ND◆	2.99	27.05	217.35	—	STP2NK100Z
	1000	2.5	6	497-7524-5-ND◆	2.77	25.00	200.93	—	STP3NK100Z
	1000	3.5	3.7	497-4382-5-ND◆	2.96	26.74	214.88	—	STP5NK100Z
	1000	6.5	1.85	497-5021-5-ND◆	3.04	27.18	222.84	—	STP8NK100Z
	1500	2.5	6	497-6327-5-ND◆	6.91	61.70	505.94	—	STP3N150
	1500	4	7	497-5091-5-ND◆	6.47	57.75	473.55	—	STP4N150
	—	62	.125	497-5896-5-ND◆	1.44	12.71	100.45	—	STP62NS04Z
	—	80	.007	497-5981-5-ND◆	1.60	14.42	115.88	—	STP75NS04Z
				TO-247					
2	75	120	.004	497-7619-5-ND◆	6.91	61.70	505.94	—	STW160N75F3
	100	110	.0105	497-5166-5-ND◆	3.89	34.75	284.95	—	STW120NF10
	200	30	.075	497-5168-5-ND◆	1.98	17.92	144.00	—	STW30N20
	200	34	.075	497-2659-5-ND◆	4.12	36.75	301.35	—	STW34NB20
	200	40	.045	497-5807-5-ND◆	3.79	33.83	277.37	—	STW40NF20
	200	75	.034	497-5959-5-ND◆	4.03	35.95	294.79	—	STW75NF20
	200	83	.023	497-8464-5-ND◆	6.76	60.38	495.08	—	STW90NF20
	250	52	.045	497-4428-5-ND◆	5.07	45.30	371.46	—	STW52NK25Z
	300	60	.045	497-8463-5-ND◆	6.80	61.16	502.83	—	STW75NF30
	500	11	.48	497-7616-5-ND◆	3.23	28.88	236.78	—	STW13NK50Z
	500	14	.34	497-3260-5-ND◆	4.41	39.38	322.88	—	STW15NK50Z
	500	14	.38	497-3258-5-ND◆	3.38	30.20	247.64	—	STW14NK50Z
	500	17	.27	497-3261-5-ND◆	3.11	27.78	227.76	—	STW20NK50Z
	500	20	.25	497-2717-5-ND◆	6.56	59.06	485.63	—	STW20NM50FD
	500	22	.14	497-4675-5-ND◆	7.61	68.51	563.33	—	STW25NM50N
	500	29	.13	497-5768-ND◆	9.50	85.50	703.00	—	STW29NK50ZD
	500	30	.120	497-3264-5-ND◆	10.50	94.50	777.00	—	STW26NM50
	500	31	.13	497-4425-5-ND◆	8.98	80.80	664.34	—	STW29NK50Z
	500	45	.1	497-2718-5-ND◆	12.71	115.50	981.75	—	STW45NM50FD
2	550	12	.32	497-7617-5-ND◆	3.21	28.63	234.77	—	STW13NM50N
	550	15	.26	497-7620-5-ND◆	4.53	40.49	332.03	—	STW16NM50N
	550	20	.25	497-3262-5-ND◆	5.88	52.50	430.50	—	STW20NM50
	550	23	.22	497-7034-5-ND◆	6.80	61.20	503.20	—	STW24NK55Z
	550	27	.115	497-8795-5-ND◆	9.06	81.52	670.26	—	STW30NM50N
	550	37	.085	497-8459-5-ND◆	12.47	112.23	922.78	—	STW43NM50N
	550	54	.054	497-8462-5-ND◆	15.59	141.76	1204.96	—	STW55NM50N
	600	10	.75	497-3253-5-ND	3.18	28.35	232.47	—	STW10NK60Z
	600	14	.42	497-3558-5-ND◆	3.04	27.18	222.84	—	STW16NK60Z
	600	20	.165	497-9066-5-ND◆ ***NEW!***	6.94	61.95	507.99	—	STW26NM60N
	600	20	.29	497-5415-5-ND◆	6.47	57.75	473.55	—	STW20NM60FD
	600	21	.16	497-10086-5-ND◆ ***NEW!***	9.06	81.52	670.26	—	STW27NM60ND
	600	27	.185	497-4424-5-ND◆	8.75	78.75	647.50	—	STW28NK60Z
	600	30	.145	497-4426-5-ND◆	11.00	100.00	850.00	—	STW30NM60D
	600	45	.11	497-2768-5-ND◆	11.55	105.00	892.50	—	STW45NM60
	600	20	.29	497-3263-5-ND◆	5.88	52.50	430.50	—	STW20NM60
	650	10	.41	497-7615-5-ND◆	3.44	30.68	251.54	—	STW12NM60N
	650	14	.299	497-8452-5-ND◆	6.28	56.48	464.35	—	STW15NM60ND
	650	14	.299	497-7618-5-ND◆	6.69	59.75	489.95	—	STW15NM60N
	650	17	.22	497-8453-5-ND◆	6.30	56.70	466.20	—	STW21NM60ND
	650	19	.180	497-7621-5-ND◆	6.96	62.62	514.86	—	STW23NM60N
	650	19.5	.180	497-8454-5-ND◆	7.09	63.79	524.48	—	STW23NM60ND
	650	21	.16	497-8455-5-ND◆	8.66	77.96	641.03	—	STW25NM60ND
	650	25	.13	497-8457-5-ND◆	9.98	89.78	738.15	—	STW30NM60N
	650	25	.13	497-8458-5-ND◆	11.03	99.23	815.85	—	STW30NM60ND
	650	35	.088	497-8460-5-ND◆	11.32	102.90	874.65	—	STW43NM60N
	650	35	.088	497-8461-5-ND◆	11.55	105.00	892.50	—	STW43NM60ND
	650	51	.060	497-7036-5-ND◆	18.13	164.86	1401.31	—	STW55NM60ND
	650	51	.060	497-7622-5-ND◆	16.17	147.00	1249.50	—	STW55NM60N
	710	12	.38	497-7032-5-ND◆	5.88	52.50	430.50	—	STW14NM65N
	710	15.5	.27	497-7033-5-ND◆	6.97	62.25	510.45	—	STW19NM65N
	710	19	.19	497-7035-5-ND◆	7.88	70.88	582.75	—	STW24NM65N
	710	33	.079	497-8796-5-ND◆	11.44	103.96	883.66	—	STW42N65M5
	800	9	.90	497-3254-5-ND◆	3.25	29.00	237.80	—	STW10NK80Z
	800	10.5	.75	497-3256-5-ND◆	4.70	42.00	344.40	—	STW12NK80Z
	800	11	.4	497-4420-5-ND◆	6.30	56.70	466.20	—	STW11NM80
	800	17	.295	497-10085-5-ND◆ ***NEW!***	6.35	57.17	470.09	—	STW18NM80
	900	5.8	2	497-7624-5-ND◆	3.53	31.50	258.30	—	STW7NK90Z
	900	8	1.3	497-2784-5-ND◆	3.01	26.90	220.58	—	STW9NK90Z
	900	9.2	.82	497-6198-5-ND◆	5.04	45.00	369.00	—	STW11NK90Z
	900	11	.88	497-4421-5-ND◆	4.73	42.28	346.66	—	STW12NK90Z
	900	15	.55	497-3557-5-ND◆	6.60	58.90	482.98	—	STW15NK90Z
	950	7.2	1.35	497-8798-5-ND◆	5.59	49.88	408.98	—	STW7N95K3
	950	10	.9	497-5167-5-ND◆	4.73	42.28	346.66	—	STW12NK95Z
	1000	3.5	3.7	497-7623-5-ND◆	2.81	25.40	204.08	—	STW5NK100Z
	1000	8.3	1.38	497-3255-5-ND◆	6.17	55.13	452.03	—	STW11NK100Z
	1500	2.5	6	497-6332-5-ND◆	7.85	70.65	580.90	—	STW3N150
	1500	4	7	497-5092-5-ND◆	6.96	62.62	514.86	—	STW4N150
	1500	8	2.5	497-8465-5-ND◆	11.55	105.00	892.50	—	STW9N150
				D2PAK					
3	24	60	.008	497-3515-1-ND‡	2.28	19.50	159.25	943.00/1,000	STB75NH02LT4
	24	120	.0018	497-7945-1-ND◆‡	5.83	52.46	427.46	2720.00/1,000	STB300NH02L
	30	70	.0095	497-6556-1-ND◆‡	2.83	24.27	198.21	1173.00/1,000	STB70NF03LT4
	30	80	.003	497-7942-1-ND◆‡	3.65	32.89	267.96	1705.00/1,000	STB230NH03L
	30	80	.004	497-7952-1-ND◆‡	3.78	34.02	277.20	1764.00/1,000	STB80NF03L-04T4
	30	80	.0042	497-10022-1-ND◆‡ ***NEW!***	2.25	19.29	157.54	932.00/1,000	STB95N3LLH6
	30	85	.008	497-7953-1-ND◆‡	2.76	23.64	193.06	1143.00/1,000	STB85NF3LLT4
	30	100	.0032	497-7929-1-ND◆‡	4.25	38.29	311.96	1985.00/1,000	STB100NF03L-03T4
	30	120	.0037	497-6548-1-ND◆‡	3.94	35.45	288.86	1838.00/1,000	STB200NF03T4
	40	80	.007	497-8805-1-ND◆‡	4.10	36.86	300.30	1911.00/1,000	STB150NF04
	40	120	.0035	497-6549-1-ND◆‡	3.94	35.45	288.86	1838.00/1,000	STB200NF04L
	40	120	.0037	497-3513-1-ND◆‡	3.94	35.45	288.86	1838.00/1,000	STB200NF04T4
	40	120	.0043	497-5951-1-ND◆‡	3.27	28.05	229.08	1356.00/1,000	STB100NF04T4
	40	160	.0025	497-7944-1-ND◆‡	5.20	46.79	381.26	2426.00/1,000	STB270N4F3
	55	80	.0065	497-6558-1-ND◆‡	3.47	31.19	254.10	1617.00/1,000	STB80NF55-06T4
	55	80	.0065	497-5954-1-ND◆‡	2.61	22.41	183.02	1083.00/1,000	STB60N55F3
	55	80	.008	497-3737-1-ND◆‡	2.91	24.90	203.35	1204.00/1,000	STB80NF55-08T4
	55	80	.008	497-4321-1-ND◆‡	3.12	28.08	228.80	1456.00/1,000	STB140NF55T4
	55	80	.008	497-5732-1-ND◆‡	4.10	36.86	300.30	1911.00/1,000	STB85NF55LT4
	55	120	.006	497-7934-1-ND◆‡	4.10	36.86	300.30	1911.00/1,000	STB150NF55T4
	55	120	.0035	497-7939-1-ND◆‡	7.09	63.80	519.86	3308.00/1,000	STB180N55F3
	55	120	.0035	497-7940-1-ND◆‡	7.09	63.80	519.86	3308.00/1,000	STB185N55F3
	60	16	.09	497-4322-1-ND◆‡	1.10	9.86	78.30	435.00/1,000	STB16NF06LT4
	60	30	.04	497-6551-1-ND◆‡	1.68	14.99	119.07	662.00/1,000	STB36NF06LT4
	60	38	.028	497-10314-1-ND◆‡ ***NEW!***	1.88	16.80	133.38	741.00/1,000	STB45NF06T4
	60	50	.018	497-6553-1-ND◆‡	2.32	19.86	162.19	960.00/1,000	STB55NF06T4
	60	55	.018	497-7462-1-ND◆‡	2.39	20.49	167.34	990.00/1,000	STB55NF06LT4
	60	60	.014	497-6554-1-ND◆‡	2.02	17.34	141.61	838.00/1,000	STB60NF06LT4
	60	60	.016	497-7950-1-ND◆‡	1.95	16.71	136.47	808.00/1,000	STB60NF06T4
	60	120	.0036	497-10025-1-ND◆‡ ***NEW!***	4.68	42.09	342.98	2183.00/1,000	STB200N6F3
	75	75	.011	497-3514-1-ND◆‡	3.31	29.78	242.66	1544.00/1,000	STB75NF75LT4
	75	120	.0075	497-6547-1-ND◆‡	3.28	29.48	240.24	1529.00/1,000	STB140NF75T4
	75	120	.0037	497-7937-1-ND◆‡	5.83	52.46	427.46	2720.00/1,000	STB160N75F3
	100	35	.045	497-6550-1-ND◆‡	2.10	17.97	146.76	869.00/1,000	STB30NF10T4
	100	40	.033	497-3736-1-ND◆‡	2.54	21.75	177.63	1051.00/1,000	STB40NF10LT4
	100	40	.035	497-7947-1-ND◆‡	2.21	18.90	154.35	914.00/1,000	STB35NF10T4
	100	50	.028	497-6552-1-ND◆‡	2.68	23.01	187.92	1112.00/1,000	STB40NF10T4
	100	80	.015	497-2489-1-ND◆‡	3.26	29.35	239.14	1522.00/1,000	STB80NF10T4
	100	80	.023	497-7951-1-ND◆‡	2.28	19.50	159.25	943.00/1,000	STB60NF10T4
	100	110	.0105	497-2452-1-ND◆‡	3.28	29.48	240.24	1529.00/1,000	STB120NF10T4
	150	40	.052	497-7948-1-ND◆‡	3.12	28.08	228.80	1456.00/1,000	STB40NS15T4

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape *(Continued)*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs *(Cont.)*

Fig.	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro. Part No.
					1	10	100		
3	200	15	.16	497-7941-1-ND◆‡	2.21	18.90	154.35	914.00/1,000	STB19NF20
	200	30	.075	497-7946-1-ND◆‡	3.02	27.22	221.76	1411.00/1,000	STB30NF20
	200	40	.045	497-5804-1-ND◆‡	3.26	29.35	239.14	1522.00/1,000	STB40NF20
	200	75	.034	497-5957-1-ND◆‡	4.57	41.12	335.06	2198.00/1,000	STB75NF20
	250	17	.165	497-10296-1-ND◆‡ ***NEW!***	2.83	24.27	198.21	1173.00/1,000	STB18NF25
	250	28	.065	497-10024-1-ND◆‡ ***NEW!***	5.67	51.03	415.80	2646.00/1,000	STB50N25M5
	250	45	.069	497-7949-1-ND◆‡	4.57	41.12	335.06	2132.00/1,000	STB50NF25
	400	10	.55	497-7930-1-ND◆‡	2.35	20.16	164.64	974.00/1,000	STB11NK40ZT4
	500	4.4	1.5	497-4324-1-ND◆‡	1.33	11.93	94.77	527.00/1,000	STB5NK50ZT4
	500	10	.52	497-2451-1-ND◆‡	3.35	28.68	234.22	1386.00/1,000	STB11NK50ZT4
	500	11	.038	497-5781-1-ND◆‡	3.94	35.45	288.86	1838.00/1,000	STB12NM50N
	500	11	.38	497-10026-1-ND◆‡ ***NEW!***	4.13	37.15	302.72	1926.00/1,000	STB12NM50ND
	500	17	.27	497-4323-1-ND◆‡	4.88	43.96	358.16	2279.00/1,000	STB20NK50ZT4
	500	17	.27	497-8767-1-ND◆‡	5.51	49.63	404.36	2573.00/1,000	STB21NK50Z
	500	18	.19	497-5783-1-ND◆‡	6.77	60.97	496.76	3161.00/1,000	STB21NM50N
	500	20	.25	497-6191-1-ND◆‡	5.99	53.87	438.90	2793.00/1,000	STB20NM50FDT4
	525	6.2	.98	497-10023-1-ND◆‡ ***NEW!***	2.75	23.55	192.33	1138.00/1,000	STB7N52K3
	550	12	.35	497-5381-1-ND◆‡	4.10	36.86	300.30	1911.00/1,000	STB12NM50T4
	550	15	.26	497-7938-1-ND◆‡	5.43	48.05	372.00	2170.00/1,000	STB16NM50N
	550	20	.25	497-5312-1-ND◆‡	5.04	45.36	369.60	2352.00/1,000	STB20NM50T4
	550	22	.14	497-5385-1-ND◆‡	7.51	68.04	567.00	3827.00/1,000	STB25NM50N
	550	27	.115	497-8768-1-ND◆‡	9.16	82.92	691.00	4664.00/1,000	STB30NM50N
	600	4	2	497-2486-1-ND◆‡	1.91	16.38	133.77	792.00/1,000	STB4NK60ZT4
	600	7	.95	497-4325-1-ND◆‡	2.75	23.58	192.57	1140.00/1,000	STB9NK60ZDT4
	600	8	1	497-5244-1-ND◆‡	2.94	25.20	205.80	1218.00/1,000	STB8NM60D
	600	10	.75	497-6544-1-ND◆‡	3.49	29.94	244.51	1447.00/1,000	STB10NK60ZT4
	600	11	.45	497-3511-1-ND◆‡	5.36	48.20	392.70	2499.00/1,000	STB11NM60FDT4
	600	13	.285	497-10297-1-ND◆‡ ***NEW!***	5.83	52.46	427.46	2720.00/1,000	STB18NM60N
	600	13	.55	497-6546-1-ND◆‡	4.41	39.69	323.40	2058.00/1,000	STB13NK60ZT4
	600	13.5	.5	497-7933-1-ND◆‡	4.10	36.86	300.30	1911.00/1,000	STB14NK60ZT4
	600	16	.22	497-10298-1-ND◆‡ ***NEW!***	6.77	60.97	496.76	3161.00/1,000	STB22NM60N
	600	17	.24	497-5002-1-ND◆‡	5.40	48.59	395.91	2596.00/1,000	STB21NM60N
	600	20	.29	497-5384-1-ND◆‡	6.62	59.54	485.10	—	STB20NM60T4
	620	2.7	2.5	497-8476-1-ND◆‡	2.13	18.27	149.21	883.00/1,000	STB3N62K3
	650	4.6	.92	497-8770-1-ND◆‡	2.66	22.80	186.20	—	STB6NM60N
	650	10	.41	497-7931-1-ND◆‡	3.07	27.61	224.95	—	STB12NM60N
	650	11	.45	497-6545-1-ND◆‡	3.94	35.45	288.86	1838.00/1,000	STB11NM60T4
	650	14	.299	497-8470-1-ND◆‡	5.83	52.46	427.46	2720.00/1,000	STB15NM60ND
	650	17	.22	497-8471-1-ND◆‡	7.09	63.80	519.86	3308.00/1,000	STB21NM60ND
	650	19	.180	497-7943-1-ND◆‡	7.10	64.27	535.60	3615.00/1,000	STB23NM60N
	650	19.5	.180	497-8472-1-ND◆‡	7.23	65.52	546.00	3686.00/1,000	STB23NM60ND
	650	21	.16	497-8473-1-ND◆‡	7.79	70.56	588.00	3969.00/1,000	STB25NM60ND
	650	21	.17	497-5003-1-ND◆‡	7.42	67.20	560.00	3780.00/1,000	STB25NM60N
	650	25	.13	497-8474-1-ND◆‡	9.04	81.91	682.60	4608.00/1,000	STB30NM60N
	650	25	.13	497-8475-1-ND◆‡	9.18	83.16	693.00	4678.00/1,000	STB30NM60ND
	710	12	.38	497-7000-1-ND◆‡	5.51	49.63	404.36	2573.00/1,000	STB14NM65N
	710	15.5	.27	497-7001-1-ND◆‡	4.79	43.07	350.92	—	STB19NM65N
	710	15.5	.27	497-7936-1-ND◆‡	6.13	54.25	420.00	2450.00/1,000	STB15NM65N
	710	19	.19	497-7002-1-ND◆‡	7.93	71.83	598.60	4041.00/1,000	STB24NM65N
	710	33	.079	497-8769-1-ND◆‡	12.66	114.67	955.60	6450.00/1,000	STB42N65M5
	800	5.2	1.8	497-6557-1-ND◆‡	3.27	28.05	229.08	1356.00/1,000	STB7NK80ZT4
	800	10.5	.75	497-4320-1-ND◆‡	4.57	41.12	335.06	2132.00/1,000	STB12NK80ZT4
	800	11	.4	497-4319-1-ND◆‡	6.96	63.00	525.00	3544.00/1,000	STB11NM80T4
	800	17	.295	497-10117-1-ND◆‡ ***NEW!***	7.25	65.21	531.30	3381.00/1,000	STB18NM80
	900	5.8	2	497-6555-1-ND◆‡	3.02	27.22	221.76	1411.00/1,000	STB6NK90ZT4
	900	8	1.3	497-7955-1-ND◆‡	4.41	39.69	323.40	2058.00/1,000	STB9NK90Z
DPAK									
4	24	30	.0145	497-7966-1-ND◆‡	.99	8.84	70.20	—	STD36NH02L
	24	38	.0135	497-3160-1-ND‡	1.44	12.92	102.60	—	STD38NH02LT4
	24	60	.008	497-3165-1-ND‡	1.41	12.58	99.90	1295.00/2,500	STD70NH02LT4
	24	60	.0048	497-4100-1-ND‡	2.52	21.60	176.40	—	STD100NH02LT4
	24	80	.005	497-4105-1-ND‡	2.28	19.50	159.25	2195.00/2,500	STD95NH02LT4
	25	40	.012	497-10018-1-ND◆‡ ***NEW!***	1.01	8.74	69.00	835.00/2,500	STD40N2LH5
	25	48	.0071	497-10094-1-ND◆‡ ***NEW!***	1.16	10.37	82.35	1067.50/2,500	STD70N2LH5
	25	60	.006	497-7978-1-ND◆‡	1.37	12.24	97.20	1260.00/2,500	STD90N02L
	25	80	.0045	497-7005-1-ND◆‡	1.73	15.44	122.58	1590.00/2,500	STD95N2LH5
	30	17	.05	497-3155-1-ND◆‡	.96	8.57	68.04	882.50/2,500	STD17NF03LT4
	30	17	.05	497-7961-1-ND◆‡	.97	8.40	66.30	800.00/2,500	STD18NF03L
	30	27	.019	497-10019-1-ND◆‡ ***NEW!***	.88	7.60	60.00	725.00/2,500	STD27N3LH5
	30	30	.025	497-3157-1-ND‡	1.80	16.08	127.71	1655.00/2,500	STD30NF03LT4
	30	35	.0195	497-2475-1-ND‡	1.60	14.28	113.40	1470.00/2,500	STD35NF3LLT4
	30	40	.0105	497-7970-1-ND◆‡	1.52	13.57	107.73	1397.50/2,500	STD50N03L
	30	48	.008	497-7971-1-ND◆‡	1.56	13.94	110.70	1435.00/2,500	STD60N3LH5
	30	60	.0095	497-2476-1-ND◆‡	1.33	11.93	94.77	1227.50/2,500	STD60NF3LLT4
	30	70	.0059	497-6188-1-ND◆‡	1.08	9.69	76.92	—	STD70N03L
	30	75	.0055	497-10119-1-ND◆‡ ***NEW!***	1.74	15.61	123.93	1607.50/2,500	STD75N3LLH6
	30	80	.0028	497-8889-1-ND◆‡ ***NEW!***	2.39	20.49	167.34	2305.00/2,500	STD150N3LLH6
	30	80	.0042	497-8891-1-ND◆‡ ***NEW!***	2.06	17.64	144.06	1985.00/2,500	STD95N3LLH6
	30	80	.005	497-7976-1-ND◆‡	1.40	12.51	99.36	1287.50/2,500	STD85N3LH5
	30	80	.005	497-8890-1-ND◆‡ ***NEW!***	1.72	15.37	122.04	1582.50/2,500	STD86N3LH5
	30	80	.0057	497-7979-1-ND◆‡	1.98	17.01	138.92	1912.50/2,500	STD90N03L
	33	70	.0105	497-10411-1-ND◆‡ ***NEW!***	2.21	18.90	154.35	2127.50/2,500	STD70NS04ZL
	40	12	.035	497-10037-5-ND ***NEW!***	2.54	22.96	184.50	—	VND14NV04
	40	80	.0054	497-6024-1-ND◆‡	2.28	19.53	159.50	2197.50/2,500	STD95N4F3
	40	80	.0065	497-5106-1-ND◆‡	2.57	22.03	179.93	—	STD95N04
	40	80	.0065	497-8481-1-ND◆‡	2.28	19.53	159.50	2197.50/2,500	STD90N4F3
	40	80	.0060	497-8776-1-ND◆‡	2.32	19.86	162.19	2235.00/2,500	STD95N4LF3
	55	80	.0085	497-7972-1-ND◆‡	2.32	19.86	162.19	2235.00/2,500	STD60N55F3
	55	80	.0085	497-7973-1-ND◆‡	2.76	23.64	193.06	2660.00/2,500	STD65N55F3
	60	12	.1	497-2487-1-ND◆‡	1.01	8.74	69.00	835.00/2,500	STD12NF06LT4
	60	12	.1	497-3154-1-ND◆‡	.91	7.83	61.80	747.50/2,500	STD12NF06T4
	60	24	.07	497-4329-1-ND◆‡	1.10	9.86	78.30	1015.00/2,500	STD16NF06LT4
	60	24	.032	497-5888-1-ND◆‡	1.08	9.66	76.68	995.00/2,500	STD20NF06LT4
	60	24	.040	497-6561-1-ND◆‡	1.08	9.66	76.68	995.00/2,500	STD20NF06T4
	60	28	.028	497-6562-1-ND◆‡	1.84	15.75	128.63	1772.50/2,500	STD30NF06T4
	60	35	.017	497-7965-1-ND◆‡	1.80	16.08	127.71	1655.00/2,500	STD35NF06LT4
	60	35	.028	497-4101-1-ND◆‡	1.40	12.51	99.36	1287.50/2,500	STD30NF06LT4
	60	35	.024	497-3159-1-ND‡	1.52	13.57	107.73	1397.50/2,500	STD35NF06T4
	60	60	.014	497-6195-1-ND◆‡	1.80	16.08	127.71	1655.00/2,500	STD60NF06T4
	75	40	.024	497-4334-1-ND◆‡ ***NEW!***	1.79	15.98	126.90	1645.00/2,500	STD45NF75T4
	75	70	.011	497-10410-1-ND◆‡ ***NEW!***	2.28	19.53	159.50	2197.50/2,500	STD78N75F4
	100	6	.250	497-7974-1-ND◆‡	1.06	9.49	75.33	977.50/2,500	STD6NF10T4
	100	13	.13	497-3153-1-ND◆‡	1.06	9.20	72.60	877.50/2,500	STD10NF10T4
	100	23	.065	497-7958-1-ND◆‡	1.28	11.42	90.72	1175.00/2,500	STD15NF10T4
	100	25	.035	497-3156-1-ND◆‡	1.52	13.60	108.00	1400.00/2,500	STD25NF10LT4
	100	25	.038	497-7962-1-ND◆‡	1.76	15.78	125.28	1625.00/2,500	STD25NF10T4
	100	25	.038	497-7963-1-ND◆‡	1.80	15.45	126.18	1737.50/2,500	STD26NF10
	100	50	.028	497-7969-1-ND◆‡	1.80	15.45	126.18	1737.50/2,500	STD40NF10
	100	60	.0195	497-8806-1-ND◆‡	1.76	15.12	123.48	1700.00/2,500	STD70N10F4
	200	5	.7	497-4335-1-ND◆‡	1.12	10.00	79.38	1030.00/2,500	STD5N20LT4
	200	5	.8	497-6563-1-ND◆‡	.96	8.28	65.40	790.00/2,500	STD5N20T4
	200	7	.40	497-6566-1-ND◆‡	1.40	12.51	99.36	1287.50/2,500	STD7NS20T4
	200	18	.125	497-5810-1-ND◆‡	1.95	16.74	136.71	1882.50/2,500	STD20NF20
	250	4	1.1	497-8479-1-ND◆‡	1.16	10.37	82.35	1067.50/2,500	STD4NS25T4
	250	13	.235	497-7959-1-ND◆‡	1.80	15.45	126.18	1737.50/2,500	STD16NF25
	250	17	.165	497-7960-1-ND◆‡	1.95	16.74	136.71	1882.50/2,500	STD17NF25
	250	17	.165	497-10299-1-ND◆‡ ***NEW!***	2.28	19.53	159.50	2197.50/2,500	STD18NF25
	400	3	1.8	497-2477-1-ND◆‡	1.15	10.30	81.81	1060.00/2,500	STD5NK40ZT4
	400	5.4	1	497-6565-1-ND◆‡	1.80	16.08	127.71	1655.00/2,500	STD7NK40ZT4
	500	2.3	3.3	497-4333-1-ND‡	1.74	15.61	123.93	1607.50/2,500	STD3NK50ZT4
	500	3	2.7	497-4103-1-ND◆‡	1.09	9.79	77.76	1007.50/2,500	STD4NK50ZT4
	500	3	2.7	497-5105-1-ND◆‡	1.15	10.30	81.81	1060.00/2,500	STD4NK50ZD
	500	4.4	1.5	497-3520-1-ND◆‡	1.60	14.28	113.40	1470.00/2,500	STD5NK50ZT4
	500	5.6	1.2	497-6564-1-ND◆‡	1.18	10.57	83.97	1087.50/2,500	STD6NK50ZT4
	500	7.5	.8	497-3162-1-ND◆‡	2.43	20.79	169.79	2340.00/2,500	STD5NM50T4
	500	11	.38	497-5784-1-ND◆‡	3.78	34.02	277.20	4190.00/2,500	STD12NM50N
	500	11	.38	497-10020-1-ND◆‡ ***NEW!***	3.97	35.72	291.06	4400.00/2,500	STD12NM50ND
	520	4.4	1.5	497-5735-1-ND◆‡	1.16	9.86	84.10	—	STD5NK52ZD
	525	4.4	1.5	497-10017-1-ND◆‡ ***NEW!***	1.60	14.28	113.40	1470.00/2,500	STD5N52U
	525	5	1.2	497-10118-1-ND◆‡ ***NEW!***	1.92	16.47	134.51	1852.50/2,500	STD6N52K3
	525	6.2	.98	497-10016-1-ND◆‡ ***NEW!***	2.61	22.41	183.02	2520.00/2,500	STD7N52K3
	550	5	.78	497-7975-1-ND◆‡	2.32	19.86	162.19	2235.00/2,500	STD7NM50N
	600	1	8.5	497-2483-1-ND◆‡	1.00	8.94	71.01	920.00/2,500	STD1NK60T4
	600	2	4.4	497-6192-1-ND◆‡	.98	8.77	69.66	—	STD2HNK60Z
	600	2.4	3.6	497-4102-1-ND‡	1.05	9.38	74.52	965.00/2,500	STD3NK60ZT4
	600	2.4	3.6	497-10093-1-ND‡ ***NEW!***	1.24	11.12	88.29	1145.00/2,500	STD3NK60ZD
	600	3	1.5	497-3161-1-ND◆‡	1.91	16.38	133.77	1842.50/2,500	STD3NM60T4
	600	4	1.76	497-5889-1-ND◆‡	1.33	11.93	94.77	1227.50/2,500	STD4NK60ZT4
	600	5	1	497-3163-1-ND◆‡	2.39	20.49	167.34	2305.00/2,500	STD5NM60T4
	600	8	.55	497-10021-1-ND◆‡ ***NEW!***	2.94	25.20	205.80	2835.00/2,500	STD10NM60N
	620	2.7	2.5	497-8478-1-ND◆‡	1.76	15.71	124.74	1617.50/2,500	STD3N62K3
	620	5.5	1.28	497-8480-1-ND◆‡	3.23	27.72	226.38	3117.50/2,500	STD6N62K3
	650	5	1.2	497-5890-1-ND◆‡	1.61	14.42	114.48	1485.00/2,500	STD5NK60ZT4
	650	7	.70	497-8775-1-ND◆‡	2.87	24.57	200.66	2765.00/2,500	STD8NM60ND
	650	10	.45	497-8477-1-ND◆‡	3.31	29.78	242.66	3667.50/2,500	STD11NM60ND
	650	11	.36	497-8773-1-ND◆‡	3.78	34.02	277.20	4190.00/2,500	STD13NM60N
	710	9	.48	497-7957-1-ND◆‡	3.62	32.62	265.76	4017.50/2,500	STD10NM65N
	710	12	.299	497-8774-1-ND◆‡	4.57	41.12	335.06	5065.00/2,500	STD16N65M5
	800	1	16	497-4751-1-ND◆‡	1.02	8.78	69.30	877.50/2,500	STD1NK80ZT4
	800	2.5	4.5	497-7968-1-ND◆‡	1.76	15.12	123.48	1700.00/2,500	STD3NK80ZT4
	800	3	3.5	497-8910-1-ND◆‡ ***NEW!***	1.84	15.75	128.63	1772.50/2,500	STD4NK80ZT4
	800	6.5	1.05	497-8807-1-ND◆‡	5.04	45.36	369.60	5585.00/2,500	STD7NM80
	900	2.1	6.5	497-4332-1-ND◆‡	1.74	15.61	123.93	1607.50/2,500	STD2NK90ZT4
	950	4	3.5	497-10412-1-ND◆‡ ***NEW!***	3.01	25.83	210.95	2905.00/2,500	STD5N95K3
	1000	1.85	8.5	497-7964-1-ND◆‡	3.01	25.83	210.95	2905.00/2,500	STD2NK100Z
	1000	2.5	6	497-7967-1-ND◆‡	3.38	28.98	236.67	3260.00/2,500	STD3NK100Z
ISOTOP — RoHS Compliant									
5	100	180	.006	497-3166-5-ND	49.95	465.75	4050.00	—	STE180NE10
	100	220	.0055	497-3167-5-ND	38.85	362.25	3150.00	—	STE250NS10
	500	53	.08	497-2776-5-ND	36.75	339.94	2894.06	—	STE53NC50
	500	70	.05	497-3172-5-ND	46.62	434.70	3780.00	—	STE70NM50
	550	48	.1	497-3170-5-ND	31.50	291.38	2480.63	—	STE48NM50
	600	40	.13	497-3169-5-ND	36.75	339.94	2894.06	—	STE40NC60
	600	70	.055	497-3173-5-ND	46.62	434.70	3780.00	—	STE70NM60
	800	45	.13	497-5387-5-ND	42.23	397.44	3540.00	—	STE45NK80ZD
	900	28	.26	497-4336-5-ND	33.60	310.80	2646.00	—	STE30NK90Z
	900	40	.18	497-4337-5-ND	53.55	504.00	4488.75	—	STE40NK90ZD
TO-220FP									
6	60	23	.028	497-4343-5-ND◆	1.54	13.67	108.05	—	STF40NF06
	60	30	.016	497-3197-5-ND◆	2.21	19.99	160.65	—	STP60NF06FP
	60	50	.018	497-3193-5-ND	1.82	16.46	132.30	—	STP55NF06FP
	100	38	.012	497-5897-5-ND◆	2.99	26.70	218.94	—	STP80NF10FP
	200	15	.16	497-7472-5-ND◆	1.89	17.05	137.03	—	STF19NF20
	200	40	.045	497-5805-5-ND◆	3.04	27.18	222.84	—	STF40NF20
	250	17	.165	497-7471-5-ND◆	2.28	20.58	165.38	—	STF17NF25
	500	9	.7	497-4654-5-ND◆	1.87	16.91	135.90	—	STF10NK50Z
	500	10	.48	497-5973-5-ND◆	1.84	16.60	133.43	—	STP11NK50ZFP
	500	11	.38	497-4804-5-ND◆	3.23	28.88	236.78	—	STF12NM50N
	500	11	.48	497-7467-5-ND◆	3.38	30.20	247.64	—	STF13NK50Z
	500	12	.35	497-2665-5-ND◆	3.82	34.13	279.83	—	STP12NM50FP
	500	17	.27	497-8894-5-ND◆ ***NEW!***	6.03	53.83	441.37	—	STF20NK50Z
	500	22	.14	497-4655-5-ND◆	6.96	62.62	514.86	—	STF25NM50N

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape *(Continued)*

Fig.	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro. Part No.
					1	10	100		
6	550	5	.78	497-7474-5-ND◆	2.47	22.34	179.55	—	STF7NM50N
	550	7.5	.56	497-7476-5-ND◆	2.05	18.51	148.72	—	STF9NM50N
	550	8	.8	497-5396-5-ND◆	2.28	20.58	165.38	—	STP8NM50FP
	550	12	.32	497-7468-5-ND◆	3.68	32.83	269.17	—	STF13NM50N
	550	18	.19	497-4803-5-ND◆ ***NEW!***	6.17	55.13	452.03	—	STF21NM50N
	550	20	.25	497-5394-5-ND◆	6.17	55.13	452.03	—	STP20NM50FP
	600	4	1.76	497-5980-5-ND◆	1.40	12.40	98.00	—	STP4NK60ZFP
	600	6	1	497-5956-5-ND◆	1.51	13.36	105.60	—	STP6NK60ZFP
	600	7	.95	497-4346-5-ND◆	2.32	20.97	168.53	—	STF9NK60ZD
	600	10	.64	497-4808-5-ND◆	2.00	18.03	144.90	—	STF12NK60Z
	600	10	.37	497-5886-5-ND◆	3.88	34.65	284.13	—	STF11NM60N
	600	10	.65	497-5892-5-ND◆	2.73	24.70	198.45	—	STP10NK60ZFP
	600	11	.36	497-8892-5-ND◆ ***NEW!***	3.53	31.50	258.30	—	STF13NM60N
	600	11	.45	497-5392-5-ND◆	4.70	42.00	344.40	—	STP11NM60FDFP
	600	13	.285	497-10300-5-ND◆ ***NEW!***	5.44	48.58	398.32	—	STF18NM60N
	600	16	.22	497-10301-5-ND◆ ***NEW!***	6.32	56.45	462.89	—	STF22NM60N
	600	20	.29	497-2771-5-ND◆	5.88	52.50	430.50	—	STP20NM60FP
	650	10	.41	497-7466-5-ND◆	3.44	30.75	252.15	—	STF12NM60N
	650	11	.45	497-3181-5-ND◆	3.82	34.13	279.83	—	STP11NM60FP
	650	12	.299	497-8893-5-ND◆ ***NEW!***	4.70	42.00	344.40	—	STF16N65M5
	650	12	.38	497-10316-5-ND◆ ***NEW!***	6.03	53.83	441.37	—	STF14NM65N
	650	14	.299	497-7469-5-ND◆	5.46	48.75	399.75	—	STF15NM60N
	710	33	.079	497-8895-5-ND◆ ***NEW!***	11.42	102.78	845.08	—	STF42N65M5
	800	2.5	4.5	497-4342-5-ND◆	1.27	11.25	88.94	—	STF3NK80Z
	800	6.2	1.3	497-5982-5-ND◆	2.99	27.05	217.35	—	STP8NK80ZFP
	800	9	.78	497-5972-5-ND◆	3.21	28.70	235.34	—	STP10NK80ZFP
	800	11	.40	497-4338-5-ND◆	5.88	52.50	430.50	—	STF11NM80
	900	3	4.1	497-5979-5-ND◆	1.36	12.06	95.31	—	STP3NK90ZFP
	1000	2.5	6	497-7473-5-ND◆	3.23	28.88	236.78	—	STF3NK100Z
	1000	3.5	3.7	497-4344-5-ND◆	3.31	29.55	242.31	—	STF5NK100Z
	1000	6.5	1.85	497-5007-5-ND◆	3.21	28.63	234.73	—	STF8NK100Z
8-SOIC — RoHS Compliant									
7	30	4	.055	497-3227-1-ND‡	1.33	11.93	94.77	1227.50/2,500	STS4DNFS30L
	30	4.5	.044	497-6187-1-ND‡	1.75	15.00	122.50	1687.50/2,500	STS4DNFS30
	30	9	.018	497-6189-1-ND‡	1.32	11.80	93.69	1215.00/2,500	STS9NH3LL
	30	9	.019	497-8196-1-ND‡	1.74	15.61	123.93	1607.50/2,500	STS9NF3LL
	30	9	.020	497-3234-1-ND‡	1.76	15.71	124.74	1617.50/2,500	STS9NF30L
	30	10	.021	497-10010-1-ND‡ ***NEW!***	1.20	10.71	85.05	1102.50/2,500	STS10N3LH5
	30	11	.0105	497-4121-1-ND‡	1.01	9.04	71.82	930.00/2,500	STS11NF30L
	30	11	.014	497-10310-1-ND‡ ***NEW!***	.83	7.18	56.70	685.00/2,500	STS11N3LLH5
	30	12	.0105	497-4122-1-ND‡	1.52	13.60	108.00	1400.00/2,500	STS12NH3LL
	30	12	.009	497-3223-1-ND‡	1.15	10.30	81.81	1060.00/2,500	STS12NF30L
	30	14	.006	497-7027-1-ND‡	1.84	15.75	128.63	1772.50/2,500	STS14N3LLH5
	30	15	.0075	497-5252-1-ND‡	1.97	16.89	137.94	2035.00/2,500	STSJ60NH3LL
	30	17	.0057	497-5760-1-ND‡	1.63	14.62	116.10	1505.00/2,500	STS17NH3LL
	30	25	.0035	497-2474-1-ND‡	1.93	16.50	134.75	1857.50/2,500	STS25NH3LL
	30	30	.0024	497-10008-1-ND‡ ***NEW!***	3.05	26.10	213.15	2937.50/2,500	STS30N3LLH6
	40	15	.005	497-8488-1-ND‡	3.27	28.05	229.08	3155.00/2,500	STS15N4LLF3
	55	24	.035	497-3317-1-ND‡	2.16	18.48	150.92	2080.00/2,500	VNS14NV04TR
	60	5	.055	497-8044-1-ND‡	1.24	11.08	88.02	1140.00/2,500	STS5NF60L
	60	7.5	.0195	497-4757-1-ND‡	1.61	14.42	114.48	1485.00/2,500	STS7NF60L
	100	4	.070	497-8043-1-ND‡	1.60	14.28	113.40	1470.00/2,500	STS4NF100
	150	5	.057	497-8903-1-ND‡ ***NEW!***	3.13	26.79	218.79	3015.00/2,500	STS5N15F3
	150	5	.063	497-10106-1-ND‡ ***NEW!***	1.47	13.19	104.76	1357.50/2,500	STS5N15F4
	600	0.3	8.5	497-3530-1-ND‡	.80	7.20	57.14	—	STS1HNK60
Max247 — RoHS Compliant									
8	100	140	.011	497-3267-5-ND	15.02	136.50	1160.25	—	STY140NS10
	500	60	.05	497-2775-5-ND	21.95	199.50	1695.75	—	STY60NM50
	600	60	.055	497-3268-5-ND	20.79	189.00	1606.50	—	STY60NM60
	650	74	.035	497-8466-5-ND	32.55	301.09	2563.31	—	STY80NM60N
	900	28	.26	497-4431-5-ND	15.94	144.90	1231.65	—	STY30NK90Z
SOT23-3L — RoHS Compliant									
9	60	0.20	5	497-3111-1-ND‡	.45	3.20	19.20	192.00/3,000	2N7002
TO-92 — RoHS Compliant									
10A	60	0.35	5	497-3110-ND	.40	2.88	16.96	—	2N7000
10B	800	0.3	13	497-6197-1-ND‡	.83	7.18	56.70	—	STQ1NK80ZR-AP
IPAK, TO-251 — RoHS Compliant									
11	24	50	.0105	497-3519-5-ND	1.14	10.09	79.77	—	STD50NH02L-1
	30	60	.009	497-3164-5-ND	1.03	9.08	71.79	—	STD60NH03L-1
	60	12	.1	497-6730-5-ND	1.40	12.37	97.76	—	STD12NF06L-1
PowerSO-10									
12	24	280	.001	497-7614-1-ND◆‡	6.14	55.30	450.56	2040.00/600	STV300NH02L
	30	160	.0028	497-3252-1-ND‡	5.43	49.20	410.00	2100.00/600	STV160NF03L
	40	270	.0015	497-7031-1-ND◆‡	5.99	53.87	438.90	1987.20/600	STV270N4F3
	55	200	.0025	497-7028-1-ND◆‡	5.89	53.01	431.90	1955.40/600	STV200N55F3
	55	250	.0022	497-7030-1-ND◆‡	6.77	60.97	496.76	2248.80/600	STV250N55F3
	75	240	.0026	497-7029-1-ND◆‡	6.14	55.30	450.56	2040.00/600	STV240N75F3
SOT-223 — RoHS Compliant									
13	30	6.5	.05	497-4525-1-ND‡	1.24	11.08	88.02	1824.00/4,000	STN4NF03L
	60	4	.1	497-3177-1-ND‡	.88	7.60	60.00	1160.00/4,000	STN3NF06L
	60	4	.1	497-4764-1-ND‡	.77	6.61	52.20	1008.00/4,000	STN3NF06
	60	4	.1	497-10315-1-ND‡ ***NEW!***	1.40	12.51	99.36	2060.00/4,000	STN4NF06L
	100	2.4	.26	497-8023-1-ND‡	.88	7.64	60.30	1164.00/4,000	STN2NF10
	200	1	1.5	497-3176-1-ND‡	1.20	10.71	85.05	—	STN1N20
	600	0.3	15	497-3523-1-ND‡	.81	6.47	48.51	912.00/4,000	STN1NK60Z
	600	0.4	8.5	497-4668-1-ND‡	1.06	9.20	72.60	1404.00/4,000	STN1HNK60
	800	0.25	16	497-4669-1-ND‡	1.08	9.66	76.68	1592.00/4,000	STN1NK80Z
I2PAK									
14	40	120	.0037	497-3512-5-ND	2.02	18.28	146.88	—	STB200NF04-1
	100	80	.019	497-6185-5-ND◆	2.29	20.45	167.69	—	STB60NF10-1
	500	18	.19	497-5727-ND◆	4.92	43.97	360.53	—	STB21NM50N-1
	520	4.4	1.22	497-5952-5-ND◆	1.17	10.35	81.77	—	STB5NK52ZD-1
	550	20	.25	497-5382-5-ND◆	4.48	40.00	328.00	—	STB20NM50-1
	550	22	.14	497-5729-ND◆	5.49	49.45	406.56	—	STB25NM50N-1
	650	11	.45	497-5379-5-ND◆	3.09	27.58	226.12	—	STB11NM60-1
	710	33	.079	497-8899-5-ND◆ ***NEW!***	11.55	103.95	854.70	—	STI42N65M5
PowerFLAT™ (6 x 5) — RoHS Compliant									
15	30	15	.0088	497-7018-1-ND‡	1.63	14.62	116.10	1806.00/3,000	STL55NH3LL
	30	16	.0105	497-5246-1-ND‡	2.21	18.90	154.35	2553.00/3,000	STL60NH3LL
	30	19	.0058	497-8484-1-ND‡	3.27	28.05	229.08	3786.00/3,000	STL65N3LLH5
	30	20	.0057	497-8485-1-ND‡	3.75	33.75	275.00	—	STL75NH3LL
	30	25	.0035	497-5813-1-ND‡	2.31	19.80	161.70	—	STL100NH3LL
	30	27	.013	497-4114-1-ND‡	1.82	16.32	129.60	2016.00/3,000	STL50NH3LL
	30	33	.0024	497-10419-1-ND‡ ***NEW!***	3.09	27.94	224.55	4041.00/3,000	STL150N3LLH6
	30	35	.00175	497-8483-1-ND‡	3.62	32.62	265.76	4821.00/3,000	STL150N3LLH5
	40	20	.005	497-8486-1-ND‡	3.49	29.94	244.51	4041.00/3,000	STL80N4LLF3
	150	6	.057	497-8785-1-ND‡	3.62	32.62	265.76	4821.00/3,000	STL25N15F3
	150	6	.063	497-10105-1-ND‡ ***NEW!***	2.13	18.27	149.21	2466.00/3,000	STL25N15F4
PowerFLAT™ (5 x 5) — RoHS Compliant									
15	40	5	—	497-6473-1-ND‡	15.50	141.54	1213.20	25782.00/3,000	PD5508L-E
	25	4	—	497-6470-1-ND‡	9.70	87.84	732.00	14274.00/3,000	PD54003L-E
	25	5	—	497-6471-1-ND‡	10.63	96.24	802.00	15639.00/3,000	PD54008L-E
	40	25	—	497-6472-1-ND‡	9.70	87.84	732.00	14274.00/3,000	PD55003L-E
PowerFLAT™ (3.3 x 3.3) — RoHS Compliant									
16	30	8	.015	497-4115-1-ND‡	1.68	14.99	119.07	1851.00/3,000	STL8NH3LL
ClipPak™ — RoHS Compliant									
17	24	150	.0035	497-4750-1-ND‡	2.12	18.15	148.23	2042.50/2,500	STD150NH02LT4
PolarPAK® — RoHS Compliant									
18A	25	21	.005	497-6324-1-ND‡	3.31	28.35	231.53	3828.00/3,000	STK820
	30	20	.0098	497-5123-1-ND‡	3.13	26.79	218.79	3618.00/3,000	STK800
	30	28	.0045	497-8901-1-ND‡ ***NEW!***	3.31	29.78	242.66	4401.00/3,000	STK28N3LLH5
	75	20	.007	497-8900-1-ND‡ ***NEW!***	3.44	30.92	251.94	—	STK20N75F3
18B	25	38	.0015	497-6325-1-ND‡	3.94	35.45	288.86	5238.00/3,000	STK822
	30	30	.0035	497-5124-1-ND‡	4.25	38.29	311.96	5658.00/3,000	STK850
	30	38	.0018	497-8784-1-ND‡	3.78	34.02	277.20	5028.00/3,000	STK38N3LLH5
	60	22	.006	497-10009-1-ND‡ ***NEW!***	4.77	42.93	349.80	—	STK22N6F3
PowerSO-10RF — RoHS Compliant									
20A	40	4	—	497-6474-1-ND‡	17.20	157.08	1346.40	6507.60/600	PD55008TR-E
	65	1	—	497-6475-1-ND‡	17.73	161.91	1387.80	6708.00/600	PD57006TR-E
	65	2.5	—	497-6477-1-ND‡	33.58	327.41	2770.35	13851.60/600	PD57018TR-E
	40	5	—	497-6715-5-ND	21.16	195.73	1666.35	—	PD55015-E
	40	7	—	497-6717-5-ND	34.28	317.09	2699.55	—	PD55035-E
	65	1	—	497-6719-5-ND	16.96	154.20	1310.70	—	PD57006-E
	65	7	—	497-6721-5-ND	64.62	608.16	5416.43	—	PD57070-E
	40	7	—	497-5301-5-ND	29.68	274.54	2337.30	—	PD55025-E
20B	65	2.5	—	497-6476-1-ND‡	33.58	327.41	2770.35	13851.60/600	PD57018STR-E
	25	5	—	497-6714-5-ND	16.46	149.60	1271.60	—	PD54008S-E
	40	5	—	497-6716-5-ND	21.16	195.73	1666.35	—	PD55015S-E
	65	.25	—	497-6718-5-ND	11.11	101.00	858.50	—	PD57002S-E
	65	1	—	497-6720-5-ND	16.96	154.20	1310.70	—	PD57006S-E
Dual N-Channel									
TSSOP-8									
7	20	5	.045	497-3151-1-ND◆‡	1.01	8.74	69.00	1336.00/4,000	STC5NF20V
	30	4.5	.035/ .040	497-7956-1-ND◆‡	1.52	13.60	108.00	2240.00/4,000	STC5DNF30V
	30	6	.030	497-3152-1-ND‡	1.60	14.28	113.40	2352.00/4,000	STC6NF30V
8-SOIC									
7	20	5	.045	497-3229-1-ND‡	1.16	10.37	82.35	1067.50/2,500	STS5DNF20V
	30	4	.06	497-5251-1-ND◆‡	1.01	8.74	69.00	835.00/2,500	STS4DNF30L
	30	8	.022	497-4399-1-ND◆‡	1.22	10.88	86.40	1120.00/2,500	STS8DNH3LL
	30	8	.020	497-2470-1-ND◆‡	1.40	12.51	99.36	1287.50/2,500	STS8DNF3LL
	30	9	.012	497-6030-1-ND◆‡	1.69	15.13	120.15	1557.50/2,500	STS9D8NH3LL
	30	10	.021	497-10011-1-ND◆‡ ***NEW!***	1.33	11.93	94.77	1227.50/2,500	STS10DN3LH5
	60	4	.055	497-3226-1-ND◆‡	1.78	15.24	124.46	1715.00/2,500	STS4DNF60L
P-Channel									
TO-220 — RoHS Compliant									
1	60	12	.20	497-2721-5-ND	.87	7.63	58.86	—	STP12PF06
	55	80	.018	497-2729-5-ND	2.92	26.38	211.95	—	STP80PF55
D2PAK — RoHS Compliant									
3	55	80	.018	497-6559-1-ND‡	4.35	39.12	318.78	2029.00/1,000	STB80PF55T4
DPAK — RoHS Compliant									
4	30	24	.028	497-3158-1-ND‡	1.65	14.79	117.45	1522.50/2,500	STD30PF03LT4
	60	10	.20	497-2456-1-ND‡	.96	8.32	65.70	795.00/2,500	STD10PF06T4
8-SOIC — RoHS Compliant									
7	20	5	.055	497-4758-1-ND‡	1.57	13.59	104.50	1622.50/2,500	STS5DPF20L
	30	5	.08	497-3231-1-ND‡	1.20	10.71	85.05	1102.50/2,500	STS5PF30L
	30	7	.021	497-3233-1-ND‡	1.88	16.80	133.38	1730.00/2,500	STS7PF30L

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs *(Cont.)*

Fig.	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro. Part No.
					1	10	100		
SOT-223 — RoHS Compliant									
13	60	2.5	.20	497-4116-1-ND‡	1.00	8.94	71.01	1472.00/4,000	STN3PF06
P-Channel with Schottky									
8-SOIC									
7	30	5	.055	497-4397-1-ND‡	1.36	12.18	96.70	—	STS4DPFS30L
Dual P-Channel — RoHS Compliant									
8-SOIC									
7	20	4	.08	497-8042-1-ND‡	1.90	16.32	133.28	1835.00/2,500	STS4DPF20L
	30	4	.08	497-3228-1-ND‡	1.60	14.28	113.40	1470.00/2,500	STS4DPF30L
	80	2	.25	497-8040-1-ND‡	1.39	12.45	98.90	—	STS2DPF80
N/P-Channel — RoHS Compliant									
8-SOIC									
7	30	8/5	.022/.055	497-4398-1-ND‡	1.74	15.61	123.93	1607.50/2,500	STS8C5H30L
Hybrid Emitter — RoHS Compliant									
TO-247-4									
21	1.2	20	0.06	497-8772-5-ND	10.11	90.97	747.96	—	STC20DE90HP
ISOTOP									
5	0.5	7	0.07	497-8777-5-ND	23.10	213.68	1819.13	—	STE07DE220
RF Transistors									
22	130	20	—	497-6725-ND	83.73	784.95	7064.55	—	SD2941-10R
	125	6	—	497-5466-ND	47.73	445.05	3870.00	—	SD2918

Fig.	V_{ces} (V)	V_{ce} (V) (sat)	I_c (A)	Digi-Key Part No.	Pricing			Tape and Reel† Pricing	STMicro Part No.
					1	10	100		
IGBT – RoHS Compliant									
TO-220									
1	330	2.5	90	497-8782-5-ND	6.44	57.50	471.50	—	STGP100N30
	600	1.65	21	497-10002-5-ND ***NEW!***	2.73	24.70	198.45	—	STGP10NC60S
	600	2.5	40	497-6027-5-ND	2.23	20.16	162.00	—	STGP19NC60WD
	600	2.5	40	497-8808-5-ND	5.73	51.20	419.84	—	STGP19NC60H
	600	2.5	40	497-8809-5-ND	2.20	19.88	159.75	—	STGP19NC60HD
	600	2.7	26	497-7014-5-ND	5.29	47.25	387.45	—	STGP30NC60K
	600	2.9	14	497-10072-5-ND ***NEW!***	1.76	15.88	127.58	—	STGPL6NC60DI
TO-247									
2	600	2.5	60	497-10073-5-ND ***NEW!***	4.12	36.75	301.35	—	STGW35HF60WD
	600	2.5	60	497-10074-5-ND ***NEW!***	3.97	35.45	290.69	—	STGW35HF60WDI
	600	2.5	70	497-5742-ND	4.65	41.48	340.10	—	STGW40NC60WD
	600	2.5	70	497-8783-5-ND	6.47	57.75	473.55	—	STGW40NC60W
	600	2.5	80	497-5969-5-ND	5.04	44.99	368.92	—	STGW30NC60VD
	1200	2.8	80	497-10000-5-ND ***NEW!***	4.76	42.50	348.50	—	STGW40N120KD
	1200	3.85	30	497-7015-5-ND	4.32	38.60	316.52	—	STGW30N120KD
	1300	2.8	63	497-10001-5-ND ***NEW!***	5.44	48.58	398.32	—	STGW38IH130D
D2PAK									
3	400	1.7	30	497-7006-1-ND‡	2.24	20.06	159.30	885.00/1,000	STGB18N40LZT4
	600	2.5	20	497-5736-1-ND‡	1.48	13.26	105.30	585.00/1,000	STGB10NC60KDT4
	600	2.5	20	497-5737-1-ND‡	2.76	23.64	193.06	1143.00/1,000	STGB10NC60KT4
	600	2.5	20	497-8780-1-ND‡	1.24	11.08	88.02	1140.00/2,500	STGD10NC60HDT4
	600	2.5	25	497-5738-1-ND‡	1.08	9.69	76.92	—	STGB14NC60KT4
	600	2.5	30	497-7008-1-ND‡	3.13	26.79	218.79	1294.85/1,000	STGB20NC60V
	600	2.5	35	497-6026-1-ND‡	2.66	22.80	186.20	1102.00/1,000	STGB19NC60HDT4
	600	2.5	40	497-8778-1-ND‡	5.04	45.36	369.60	2352.00/1,000	STGB19NC60WT4
	600	2.5	60	497-8779-1-ND‡	5.99	53.87	438.90	2793.00/1,000	STGB30NC60WT4
	600	2.7	26	497-7009-1-ND‡	5.99	53.87	438.90	2793.00/1,000	STGB30NC60KT4
	600	2.75	20	497-7007-1-ND‡	5.51	49.63	404.36	2573.00/1,000	STGB19NC60KDT4
DPAK									
4	400	1.7	25	497-7010-1-ND‡	1.86	16.66	132.30	1715.00/2,500	STGD18N40LZT4
	600	2.5	25	497-5739-1-ND‡	2.96	25.38	207.27	2855.00/2,500	STGD14NC60KT4
	600	6	13	497-8896-1-ND‡ ***NEW!***	1.98	17.01	138.92	1912.50/2,500	STGDL6NC60DIT4
TO-220FP									
6	600	1.65	10	497-10003-5-ND ***NEW!***	1.36	12.06	95.31	—	STGF10NC60SD
PowerMESH™ IGBT									
TO-220 — RoHS Compliant									
1	410	1.3	20	497-6732-5-ND	4.12	36.75	301.35	—	STGP10NB37LZ
	600	1.35	20	497-7012-5-ND	4.41	39.38	322.88	—	STGP19NC60S
	600	1.35	20	497-7013-5-ND	2.42	21.84	175.50	—	STGP19NC60SD
	600	1.7	10	497-5008-5-ND	3.82	34.13	279.83	—	STGP10NB60SD
	600	1.7	10	497-6733-5-ND	3.70	33.08	271.22	—	STGP10NB60S
	600	1.9	14	497-7482-5-ND	1.73	15.60	125.33	—	STGPL6NC60D
	600	1.9	60	497-9060-5-ND ***NEW!***	6.47	57.75	473.55	—	STGP30NC60S
	600	2.0	35	497-8439-5-ND	2.23	20.16	162.00	—	STGP19NC60KD
	600	2.1	40	497-10091-5-ND ***NEW!***	4.56	40.70	333.74	—	STGP19NC60W
	600	2.1	60	497-6734-5-ND	3.09	27.58	226.12	—	STGP30NC60W
	600	2.2	8	497-7480-5-ND	1.79	16.18	130.05	—	STGP8NC60K
	600	2.2	15	497-7481-5-ND	1.23	10.85	85.75	—	STGP8NC60KD
	600	2.5	7	497-5122-5-ND	2.34	21.17	170.10	—	STGP6NC60HD
	600	2.5	10	497-5117-5-ND	1.59	14.39	115.67	—	STGP10NC60H
	600	2.5	10	497-5118-5-ND	1.22	10.82	85.51	—	STGP10NC60HD
	600	2.5	10	497-5119-5-ND	1.59	14.39	115.67	—	STGP10NC60K
	600	2.5	10	497-5120-5-ND	1.23	10.85	85.75	—	STGP10NC60KD
1	600	2.5	14	497-5121-5-ND	1.82	16.12	127.40	—	STGP14NC60KD
	600	2.5	14	497-4113-5-ND	1.79	16.18	130.05	—	STGP7NC60H
	600	2.5	30	497-4355-5-ND	3.38	30.20	247.64	—	STGP20NC60V
	600	2.5	14	497-6735-5-ND	1.82	16.12	127.40	—	STGP7NC60HD
TO-247 — RoHS Compliant									
2	600	1.7	35	497-7486-5-ND	2.02	18.28	146.88	—	STGW35NB60S
	600	2.1	60	497-7485-5-ND	6.47	57.75	473.55	—	STGW30NC60KD
	600	2.1	70	497-8441-5-ND	4.47	39.90	327.18	—	STGW40NC60KD
	600	2.1	90	497-10092-5-ND ***NEW!***	5.10	45.50	373.10	—	STGW45NC60WD
	600	2.2	70	497-7488-5-ND	4.79	42.80	350.96	—	STGW35NC60WD
	600	2.5	30	497-4356-5-ND	4.57	40.78	334.36	—	STGW20NC60V
	600	2.5	30	497-4357-5-ND	6.47	57.75	473.55	—	STGW20NC60VD
	600	2.5	30	497-5009-5-ND	4.90	43.73	358.55	—	STGW30NC60W
	600	2.5	20	497-5204-5-ND	4.47	39.90	327.18	—	STGW30NC60WD
	600	2.5	50	497-4358-5-ND	8.27	74.43	611.98	—	STGW40NC60V
	600	2.5	21	497-9061-5-ND ***NEW!***	2.79	25.17	202.28	—	STGW19NC60HD
	600	2.5	42	497-9062-5-ND ***NEW!***	3.82	34.13	279.83	—	STGW19NC60W
	600	2.5	23	497-7483-5-ND	2.76	24.92	200.25	—	STGW19NC60WD
	600	2.4	90	497-9063-5-ND ***NEW!***	5.12	45.75	375.15	—	STGW45NC60VD
	600	2.6	55	497-7016-5-ND	7.22	64.98	534.28	—	STGW50NC60W
	900	2.75	30	497-7484-5-ND	8.14	73.24	602.18	—	STGW30N90D
	1200	2.2	58	497-7487-5-ND	10.37	93.33	767.38	—	STGW35NC120HD
	1200	2.75	30	497-5314-5-ND	8.53	76.79	631.41	—	STGW30NC120HD
D2PAK									
3	20	2.0	20	497-4351-1-ND◆‡	5.99	53.87	438.90	2793.00/1,000	STGB20NB41LZT4
	380	1.7	15	497-10120-1-ND◆‡ ***NEW!***	3.13	26.79	218.79	1295.00/1,000	STGB35N35LZT4
	425	1.8	20	497-4106-1-ND‡	4.41	39.69	323.40	2058.00/1,000	STGB10NB37LZT4
	600	1.9	14	497-7987-1-ND◆‡	2.02	17.34	141.61	838.00/1,000	STGBL6NC60DT4
	425	2.0	20	497-6567-1-ND◆	3.48	29.79	243.29	1440.00/1,000	STGB20NB37LZT4
	600	2.0	35	497-8482-1-ND◆‡ ***NEW!***	2.92	25.02	204.33	1209.00/1,000	STGB19NC60KT4
	600	2.2	8	497-7986-1-ND◆‡	2.02	17.34	141.61	838.00/1,000	STGB8NC60KT4
	600	2.2	15	497-7985-1-ND◆‡	1.52	13.60	108.00	600.00/1,000	STGB8NC60KDT4
	600	2.4	3	497-2449-1-ND‡	1.33	11.90	94.51	—	STGB3NB60FDT4
	600	2.5	7	497-5111-1-ND◆‡	1.66	14.20	115.95	686.00/1,000	STGB6NC60HT4
	600	2.5	10	497-6184-1-ND◆‡	1.52	13.60	108.00	600.00/1,000	STGB10NC60HDT4
	600	2.5	14	497-5109-1-ND◆‡	2.17	19.38	153.90	855.00/1,000	STGB14NC60KDT4
	600	2.5	14	497-4108-1-ND◆‡	2.17	19.38	153.90	855.00/1,000	STGB7NC60HDT4
	600	2.8	7	497-4107-1-ND‡	1.71	14.69	119.95	—	STGB7NB60HDT4
DPAK									
4	600	1.5	3	497-4109-1-ND◆‡	1.44	12.85	102.06	1322.50/2,500	STGD3NB60SDT4
	600	1.65	18	497-10013-1-ND◆‡ ***NEW!***	2.76	23.64	193.06	2660.00/2,500	STGD10NC60ST4
	600	1.65	18	497-10014-1-ND◆‡ ***NEW!***	2.91	24.90	203.35	2802.50/2,500	STGD10NC60SDT4
	600	1.9	13	497-7990-1-ND◆‡	1.88	16.08	131.32	1810.00/2,500	STGDL6NC60DT4
	600	2.2	8	497-7989-1-ND◆‡	1.88	16.08	131.32	1810.00/2,500	STGD8NC60KT4
	600	2.2	15	497-7988-1-ND◆‡	1.44	12.85	102.06	1322.50/2,500	STGD8NC60KDT4
	600	2.4	3	497-2450-1-ND‡	1.14	10.24	81.32	—	STGD3NB60FT4
	600	2.5	7	497-5112-1-ND◆‡	2.57	22.05	180.08	2480.00/2,500	STGD6NC60HDT4
	600	2.5	10	497-6183-1-ND◆‡	1.24	11.08	88.02	—	STGD10NC60KDT4
	600	2.5	10	497-6186-1-ND◆‡	2.50	21.42	174.93	2410.00/2,500	STGD10NC60HT4
	600	2.5	14	497-4111-1-ND‡	1.98	17.01	138.92	1912.50/2,500	STGD7NC60HT4
	600	2.8	7	497-4110-1-ND‡	1.42	12.73	101.10	—	STGD7NB60KT4
	1200	2.0	10	497-4352-1-ND◆‡	2.17	18.60	151.90	2092.50/2,500	STGD5NB120SZT4
ISOTOP — RoHS Compliant									
5	600	1.2	150	497-6731-5-ND	35.28	326.34	2778.30	—	STGE200NB60S
	600	2.5	50	497-7011-5-ND	19.40	176.40	1499.40	—	STGE50NC60VD
	600	2.6	100	497-8781-5-ND	20.14	183.12	1556.52	—	STGE50NC60WD
TO-220FP — RoHS Compliant									
6	600	1.9	7	497-7479-5-ND	1.73	15.60	125.33	—	STGFL6NC60D
	600	2.2	7	497-7478-5-ND	1.32	11.72	92.61	—	STGF8NC60KD
	600	2.5	3	497-5116-5-ND	1.31	11.63	91.88	—	STGF6NC60HD
	600	2.5	6	497-5114-5-ND	1.31	11.63	91.88	—	STGF10NC60KD
	600	2.5	6	497-4354-5-ND	1.86	16.43	129.85	—	STGF7NC60HD
	600	2.5	14	497-5115-5-ND	1.89	16.74	132.30	—	STGF14NC60KD
	600	2.5	7	497-7477-5-ND	2.26	20.44	164.25	—	STGF19NC60WD
	1200	2.8	3	497-4353-5-ND	1.78	16.07	129.15	—	STGF3NC120HD
NEW! TO-3PF — RoHS Compliant NEW!									
6	1500	4	7	497-10004-5-ND	8.27	74.43	611.98	—	STFW4N150
	1500	4	7	497-10005-5-ND	7.88	70.88	582.75	—	STFW3N150
Max247™ — RoHS Compliant									
8	600	2.1	110	497-7489-5-ND	13.86	126.00	1071.00	—	STGY50NC60WD
	600	2.5	50	497-6736-5-ND	11.55	103.95	854.70	—	STGY40NC60VD
I2PAK — RoHS Compliant									
14	350	2.0	20	497-3522-5-ND	3.77	35.10	273.00	—	STGB20NB32LZ
	600	2.5	7	497-6196-5-ND	1.82	16.45	132.19	—	STGB6NC60HD-1
SEMITOP®2 — RoHS Compliant									
19	600	2.5	10	497-5216-ND	38.85	362.25	3150.00	—	STG3P2M10N60B

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

Transistors

Fig. 1 — TO-39, TO-18

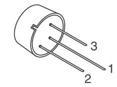

Fig. 2 — TO-3

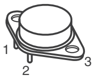

Fig. 3 — TO-3P

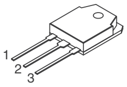

Fig. 4 — TO-92, TO-92L

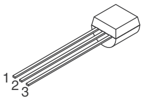

Fig. 5 — SOT-32

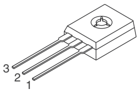

Fig. 6 — TO-220

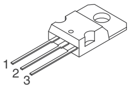

Fig. 7 — ISOWATT218FX, TO-3PF

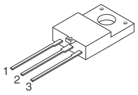

Fig. 8 — TO-247

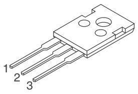

Fig. 9 — TO-264

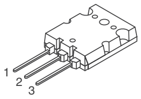

Fig. 10 — ISOTOP

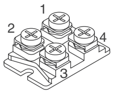

Fig. 11 — TO-220FP

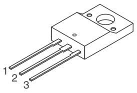

Fig. 12 — M113, M174, M177

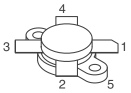

Fig. 13 — M135

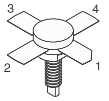

Fig. 14 — M111

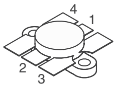

Fig. 15 — SOT-23

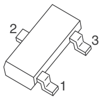

Fig. 16 — SOT-223

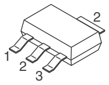

Fig. 17 — SOT-89

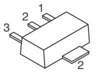

Fig. 18 — DPAK

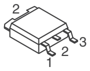

Fig. 19 — D2PAK

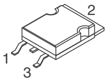

Fig. 20 — SOT-343

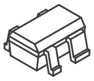

Fig. 21 — TO-92AP

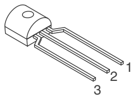

Fig. 22 — SOT23-6

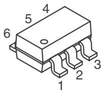

Fig. 23 — 8-SOIC

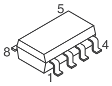

Fig. 24 — M246

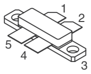

Fig. 25 — M243

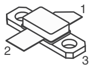

Fig. 26 — M250

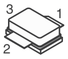

Fig. 27 — PowerSO-10RF

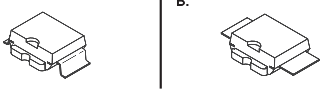

A.

B.

Fig. 28 — PowerFLAT™

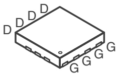

Fig. 29 — M229

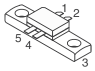

Fig. 30 — M244

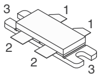

Fig. 31 — STAC244B

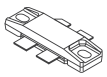

Fig.	VCB (V)	IC (A)	HFE Min.	Package	Digi-Key Part No.	Pricing			STMicro. Part No.
						1	10	100	
NPN									
1	30	0.8	100	TO-18	497-3106-5-ND◆	1.07	9.46	74.73	2N2222
	45	0.1	110	TO-18	497-3116-5-ND	1.47	13.02	102.90	BC107
	45	0.2	180	TO-18	497-6655-ND◆	.92	8.09	62.37	BCY59VIII
	75	0.5	100	TO-39	497-2594-5-ND◆	1.02	8.99	71.05	2N1711
	75	0.6	100	TO-18	497-2598-ND◆	.96	8.46	66.89	2N2222A
	75	0.6	100	TO-39	497-2595-5-ND◆	.88	7.81	61.74	2N2219A
	80	1	100	TO-18	497-3108-5-ND◆	1.07	9.46	74.73	2N3700
	100	1	100	TO-39	497-7164-ND◆	1.66	14.66	115.89	BC141-16
	120	0.5	40	TO-39	497-2637-5-ND◆	1.02	8.99	71.05	2N1893
	120	1	40	TO-39	497-2636-5-ND◆	1.29	11.41	90.16	2N2102
	120	5	40	TO-39	497-2635-5-ND◆	2.20	19.88	159.75	BFX34
	140	1	100	TO-39	497-2634-5-ND◆	1.10	9.77	77.18	2N3019
	300	1	40	TO-39	497-2626-5-ND◆	1.10	9.77	77.18	2N3440
	450	1	40	TO-39	497-2576-5-ND◆	1.21	10.76	85.02	2N3439
2	40	30	15	TO-3	497-2584-5-ND◆	2.99	27.05	217.35	2N3771
	60	20	15	TO-3	497-2597-5-ND◆	2.94	26.25	215.25	2N3772
	100	15	20	TO-3	497-2612-5-ND◆	1.82	16.46	132.30	2N3055
	100	20	750	TO-3	497-2563-5-ND◆	4.26	38.08	312.22	2N6284
	100	30	25	TO-3	497-6713-ND◆	3.97	35.45	290.69	MJ802
	140	16	15	TO-3	497-6204-ND◆	3.04	27.18	222.84	2N3773
	160	50	20	TO-3	497-7214-5-ND◆	14.90	135.46	1151.41	BUV20
	160	25	20	TO-3	497-7218-ND◆	4.85	43.33	355.27	BUX10
	250	17	80	TO-3	497-6953-ND◆	3.79	33.88	277.78	2ST5949
	400	15	300	TO-3	497-3129-5-ND◆	3.82	34.13	279.83	BU941
	450	30	—	TO-3	497-4086-5-ND◆	12.84	116.76	992.46	BUF420M
	450	30	—	TO-3	497-8936-5-ND◆ ***NEW!***	13.98	127.06	1080.01	BUX98A
	700	8	—	TO-3	497-2412-ND◆	3.08	27.50	225.50	BU208A
	850	15	12	TO-3	497-2592-5-ND◆	5.56	49.63	406.93	2N6547
	850	15	—	TO-3	497-7219-ND◆	5.53	49.35	404.67	BUX48
	1000	15	—	TO-3	497-6684-ND◆	5.59	49.88	408.98	BUX48A
3	100	25	40	TO-3P	497-6956-5-ND◆	2.77	25.00	200.93	2STC2510
	120	8	70	TO-3P	497-6957-5-ND◆	2.77	25.00	200.93	2STC4467
	200	10	70	TO-3P	497-7057-5-ND◆	2.93	26.46	212.63	2STC4468
	230	15	80	TO-3P	497-7059-5-ND◆	2.93	26.46	212.63	2STC5242
	250	17	80	TO-3P	497-6958-5-ND◆	4.09	36.50	299.30	2STC5948
4	40	3	100	TO-92	497-8801-ND◆	.55	4.64	34.80	STX690A
	60	5	200	TO-92	497-3531-ND◆	1.10	9.77	77.18	STSA1805
	80	3	160	TO-92	497-5213-ND◆	.55	4.64	34.80	2STX1360
	80	3	160	TO-92L	497-7062-ND◆	.45	3.52	24.15	2STL1360
	150	5	150	TO-92	497-3235-ND◆	.78	6.79	52.38	STSA851
	300	0.5	25	TO-92	497-2407-ND	.42	2.89	13.47	STPSA42
	400	1	10	TO-92	497-8888-ND◆ ***NEW!***	.60	5.04	37.80	STBV42G
	400	1.5	4	TO-92	497-10303-1-ND◆‡ ***NEW!***	.74	6.38	50.40	STL73D-AP
	400	1.5	4	TO-92	497-10303-3-ND◆§ ***NEW!***	487.20/2000			STL73D-AP
	400	1.5	8	TO-92	497-8887-ND◆ ***NEW!***	.70	5.88	44.10	STBV32G
	400	3	8	TO-92	497-4429-ND◆	.70	5.88	44.10	STX13005
	700	1	5	TO-92	497-8799-ND◆	.55	4.64	34.80	STX13003G
4	700	2	6	TO-92	497-8904-5-ND◆ ***NEW!***	.60	5.04	37.80	STX13004G
	700	3	8	TO-92	497-8800-ND◆	.63	5.53	42.66	STX13005G
5	40	4	40	SOT-32	497-2583-5-ND◆	.66	5.74	44.28	MJE521
	60	2	25	SOT-32	497-7166-5-ND◆	.96	8.46	66.89	BD235
	60	3	100	SOT-32	497-4821-5-ND◆	.73	6.37	49.14	2SD882
	60	4	25	SOT-32	497-2601-5-ND◆	.97	8.47	65.34	2N5191
	60	4	750	SOT-32	497-2600-5-ND◆	1.10	9.77	77.18	BD677A
	80	4	100	SOT-32	497-2549-5-ND◆	.73	6.37	49.14	MJE802
	80	4	20	SOT-32	497-2591-5-ND◆	.98	8.61	66.42	2N5192
	80	4	750	SOT-32	497-2560-5-ND◆	.82	7.21	55.62	2N6039
	100	2	25	SOT-32	497-7167-5-ND◆	.99	8.80	69.58	BD237
	100	3	50	SOT-32	497-2590-5-ND◆	.69	5.80	43.50	MJE182
	300	0.5	30	SOT-32	497-2624-5-ND◆	.60	5.29	40.77	MJE340
	400	1	5	SOT-32	497-10071-ND◆ ***NEW!***	3.09	27.58	226.12	ST13003N
	400	1.5	5	SOT-32	497-10295-ND◆ ***NEW!***	.72	6.27	48.33	ST13003-K
	400	2	10	SOT-32	497-6966-5-ND◆	.88	7.75	61.25	BULT106D
	700	2	10	SOT-32	497-7573-5-ND◆	.55	4.64	34.80	STT13005
6	45	8	20	TO-220	497-5203-5-ND◆	1.28	11.36	89.74	BD533
	60	1	15	TO-220	497-2580-5-ND◆	.80	7.00	54.00	TIP29A
	60	2	500	TO-220	497-2545-5-ND◆	.80	7.00	54.00	TIP110
	60	3	10	TO-220	497-5202-5-ND◆	1.14	10.14	80.12	BD241A
	60	3	10	TO-220	497-2602-5-ND◆	.65	5.67	43.74	TIP31A
	60	5	1,000	TO-220	497-2539-5-ND◆	.70	6.09	46.98	TIP120
	60	6	3	TO-220	497-5170-5-ND◆	.89	7.91	62.48	TIP41A
	60	10	40	TO-220	497-2574-5-ND◆	1.13	10.04	79.38	D44H8
	70	10	20	TO-220	497-2573-5-ND◆	.92	8.09	62.37	MJE3055T
	80	5	1,000	TO-220	497-2537-5-ND◆	.88	7.70	59.40	TIP121
	80	10	1,000	TO-220	497-2562-5-ND◆	1.14	10.11	79.87	2N6388
	80	10	40	TO-220	497-2616-5-ND◆	1.01	8.96	70.81	D44H11
	100	1	15	TO-220	497-2611-5-ND◆	.63	5.53	42.66	TIP29C
	100	2	500	TO-220	497-2533-5-ND◆	.72	6.27	48.33	TIP112
	100	3	25	TO-220	497-2615-5-ND◆	.65	5.67	43.74	TIP31C
	100	5	1,000	TO-220	497-2543-5-ND◆	.72	6.27	48.33	TIP122
	100	6	15	TO-220	497-2632-5-ND◆	1.10	9.77	77.18	BD243C
	100	6	15	TO-220	497-2622-5-ND◆	.88	7.74	59.67	TIP41C
	100	8	1,000	TO-220	497-2546-5-ND◆	.82	7.21	55.62	TIP102
	100	12	15	TO-220	497-6963-5-ND◆	1.07	9.46	74.73	BD711
	100	10	750	TO-220	497-6964-5-ND◆	1.44	12.71	100.45	BDX33C
	180	14	—	TO-220	497-7215-5-ND◆	2.90	26.18	210.38	BUV26
	240	12	—	TO-220	497-7216-5-ND◆	3.09	27.94	224.55	BUV27
	350	1	30	TO-220	497-2631-5-ND◆	.92	8.05	62.10	TIP47
	350	15	300	TO-220	497-2740-5-ND◆	3.43	30.63	251.13	BU941ZT
	400	4	16	TO-220	497-3130-5-ND◆	.85	7.57	59.83	BUL742A
	400	4	8	TO-220	497-3149-5-ND	1.06	9.39	74.24	ST13005
	400	7	—	TO-220	497-7195-5-ND◆	1.40	12.40	98.00	BU406

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel § Tape and Box ∆ Darlington ▲ Flared Lead *(Continued)*

Transistors *(Cont.)*

Fig.	VCB (V)	IC (A)	HFE Min.	Package	Digi-Key Part No.	Pricing 1	10	100	STMicro. Part No.
6	400	10	300	TO-220	497-2797-5-ND◆	3.04	27.50	220.95	BU931T
	450	10	10	TO-220	497-2581-5-ND◆	1.10	9.73	76.93	BUL38D
	500	1	30	TO-220	497-2605-5-ND◆	.78	6.79	52.38	TIP50
	600	7	—	TO-220	497-7198-5-ND◆∆	2.57	23.24	186.75	BU810
	700	8	10	TO-220	497-3510-ND	1.47	13.02	102.90	ST13009
	800	4	12	TO-220	497-2638-5-ND◆	1.83	16.52	132.75	BUL216
	2000	100	350	TO-220	497-7022-5-ND◆	6.47	57.75	473.55	STP03D200
	850	12	10	TO-220	497-6682-5-ND◆	3.09	27.58	226.12	BUL89
	900	5	8	TO-220	497-6683-5-ND◆	2.05	18.54	148.95	BUL903ED
	1000	5	6	TO-220	497-7201-5-ND◆	2.41	21.76	174.83	BUL310
	800	5	8	TO-220	497-7202-5-ND◆	1.89	17.05	137.03	BUL381D
	850	4	4	TO-220	497-7203-5-ND◆	1.10	9.77	77.18	BUL39D
	1000	10	15	TO-220	497-7204-5-ND◆	2.34	21.17	170.10	BUL510
	700	4	14	TO-220	497-7205-5-ND◆	.89	7.91	62.48	BUL704
	700	5	16	TO-220	497-7206-5-ND◆	.99	8.80	69.58	BUL705
	1050	2.5	25	TO-220	497-7207-5-ND◆	1.03	9.11	72.03	BUL741
	1050	4	25	TO-220	497-7208-5-ND◆	1.54	13.67	108.05	BUL742C
	450	12	15	TO-220	497-7210-5-ND◆	3.09	27.58	226.12	BUL98
	700	8	5	TO-220	497-7458-5-ND◆	1.31	11.63	91.88	ST13007
	500	4	500	TO-220	497-7461-5-ND◆	1.69	15.23	122.40	ST901T
7	350	15	300	TO-3PF	497-2542-5-ND◆	4.37	39.00	319.80	BU941ZPFI
	800	24	6.5	ISOWATT218FX	497-4646-5-ND◆	3.82	34.13	279.83	HD1750FX
	1500	10	5.5	ISOWATT218FX	497-8755-5-ND◆	1.60	14.42	115.88	MD1802FX
	1500	12	4.5	ISOWATT218FX	497-8756-5-ND◆	1.60	14.42	115.88	MD2001FX
	1500	12	6.5	ISOWATT218FX	497-7459-5-ND◆	2.60	23.52	189.00	ST1510FX
	1000	15	28	ISOWATT218FX	497-7460-5-ND◆	1.47	13.02	102.90	ST4460FX
	700	8	10	ISOWATT218FX	497-8748-5-ND◆	1.92	17.36	139.50	BU508AF
8	100	6	50	TO-247	497-7065-5-ND◆	1.48	13.14	103.88	2STW4466
	100	10	500	TO-247	497-2541-5-ND◆	1.82	16.46	132.30	TIP142
	100	15	750	TO-247	497-2607-5-ND	2.94	26.25	215.25	BDW83C
	100	15	20	TO-247	497-2586-5-ND◆	1.73	15.31	121.03	TIP3055
	100	25	10	TO-247	497-2609-5-ND◆	1.89	17.05	137.03	TIP35C
	140	10	20	TO-247	497-2614-5-ND◆	1.95	17.64	141.75	TIP33C
	200	10	70	TO-247	497-7066-5-ND◆	2.57	23.24	186.75	2STW4468
	400	15	300	TO-247	497-3128-5-ND◆	3.09	27.94	224.55	BU931P
	450	15	—	TO-247	497-2544-5-ND◆	3.72	33.23	272.45	BUV48A
	100	25	10	TO-247	497-4633-5-ND◆	2.34	21.17	170.10	TIP35CW10
	450	30	—	TO-247	497-4085-5-ND◆	9.45	85.05	699.30	BUF420AW
	700	12	10	TO-247	497-3555-ND	2.12	19.12	153.68	STW13009
	350	15	300	TO-247	497-6680-5-ND◆∆	4.12	36.75	301.35	BU941ZP
	700	8	10	TO-247	497-7196-5-ND◆	2.82	25.20	206.64	BU508AW
	500	15	300	TO-247	497-7199-5-ND◆∆	3.38	30.20	247.64	BU941P
	1000	15	10	TO-247	497-7209-5-ND◆	4.41	39.38	322.88	BUL810
	200	40	—	TO-247	497-7213-5-ND◆	11.55	105.00	892.50	BUT70W
	700	30	15	TO-247	497-8456-5-ND◆	2.88	25.73	210.95	STW3040
	500	20	11	TO-247	497-8794-5-ND◆	2.79	25.17	202.28	STW2040
	700	12	80	TO-247	497-8815-5-ND◆	1.66	14.66	115.89	STWH13009
	1500	8	7.5	TO-247-4LHV	497-10006-5-ND◆ ***NEW!***	9.19	82.69	679.88	STC08DE150HV
9	250	17	80	TO-264	497-6959-5-ND◆	4.09	36.50	299.30	2STC5949
	230	15	150	TO-264	497-7058-5-ND◆	3.09	27.94	224.55	2STC5200
10	450	60	120	ISOTOP	497-5334-5-ND◆	33.60	310.80	2646.00	ESM5045DV
	450	84	—	ISOTOP	497-2648-5-ND◆	58.91	554.40	4937.63	ESM6045DV
	1000	50	—	ISOTOP	497-3567-5-ND◆	23.07	213.42	1816.92	STE50DE100
	200	100	27	ISOTOP	497-7212-5-ND◆	21.25	193.20	1642.20	BUT30V
	1000	30	9	ISOTOP	497-7217-5-ND◆	25.20	233.10	1984.50	BUV98AV
11	60	3	100	TO-220FP	497-5900-5-ND◆	.73	6.37	49.14	2SD2012
	100	5	1,000	TO-220FP	497-6761-5-ND◆	1.21	10.76	85.02	TIP122FP
	350	15	300	TO-220FP	497-4641-5-ND◆	3.97	35.45	290.69	BU941ZTFP
12	36	8	20	M113	497-5454-ND◆	47.88	446.43	3882.00	SD1274-01
	36	8	20	M113	497-5456-ND◆	47.88	446.43	3882.00	SD1275-01
	36	20	20	M174	497-5457-ND◆	51.82	487.68	4343.40	SD1405
	110	20	20	M174	497-6724-ND◆	99.73	934.95	8414.55	SD1726
	110	40	20	M177	497-5460-ND◆	126.45	1181.61	11028.36	SD1728
13	36	8	20	M135	497-5453-ND◆	63.18	596.70	4826.25	SD1274
	36	8	20	M135	497-5455-ND◆	59.67	561.60	5001.75	SD1275
14	36	20	20	M111	497-6723-ND◆	51.43	484.00	4310.63	SD1477
15	15	1.5	200	SOT-23	497-6205-1-ND◆‡	.51	3.60	24.00	STR1215
	15	1.5	200	SOT-23	497-6205-2-ND◆†		258.00/3,000		STR1215
	30	0.1	180	SOT-23	497-5685-1-ND◆‡	.56	3.98	26.50	2STR1230
	30	0.1	180	SOT-23	497-5685-2-ND◆†		285.00/3,000		2STR1230
	60	1	180	SOT-23	497-6960-1-ND◆‡	.52	3.68	24.50	2STR1160
	60	1	180	SOT-23	497-6960-2-ND◆†		264.00/3,000		2STR1160
	300	0.5	25	SOT-23	497-2480-1-ND◆‡	.42	3.00	18.00	MMBTA42
	300	0.5	25	SOT-23	497-2480-2-ND◆†		180.00/3,000		MMBTA42
16	40	3	100	SOT-223	497-7493-1-ND◆‡	.58	4.62	34.65	STN690A
	40	3	100	SOT-223	497-7493-2-ND◆†		179.00/1,000		STN690A
	45	5	100	SOT-223	497-7021-1-ND◆‡	.67	5.32	39.93	STN878
	45	5	100	SOT-223	497-7021-2-ND◆†		206.00/1,000		STN878
	60	3	100	SOT-223	497-7494-1-ND◆‡	1.15	10.30	81.81	STN724
	60	3	100	SOT-223	497-7494-2-ND◆†		455.00/1,000		STN724
16	80	1.5	40	SOT-223	497-3178-1-ND◆‡	.74	6.38	50.40	STN715
	80	1.5	40	SOT-223	497-3178-2-ND◆† ***NEW!***		269.00/1,000		STN715
	80	3	160	SOT-223	497-5212-1-ND◆‡	.58	4.62	34.65	2STN1360
	80	3	160	SOT-223	497-5212-2-ND◆†		179.00/1,000		2STN1360
	100	1	100	SOT-223	497-6962-1-ND◆‡	.58	4.62	34.65	BCP56-16
	100	1	100	SOT-223	497-6962-2-ND◆†		179.00/1,000		BCP56-16
	150	5	150	SOT-223	497-3179-1-ND◆‡	.77	6.69	52.80	STN851
	150	5	150	SOT-223	497-3179-2-ND◆†		282.00/1,000		STN851
17	40	3	200	SOT-89	497-7060-1-ND◆‡	.61	4.79	32.76	2STF1340
	40	3	200	SOT-89	497-7060-2-ND◆†		347.50/2,500		2STF1340
	80	3	160	SOT-89	497-5211-1-ND◆‡	.61	4.79	32.76	2STF1360
	80	3	160	SOT-89	497-5211-2-ND◆†		347.50/2,500		2STF1360
	140	1.5	40	SOT-89	497-4656-1-ND◆‡	1.40	12.51	99.36	STF715
	140	1.5	40	SOT-89	497-4656-2-ND◆†		1287.50/2,500		STF715
18	30	5	100	DPAK	497-10034-1-ND◆‡ ***NEW!***	.70	6.00	47.40	STD878T4
	30	5	100	DPAK	497-10034-2-ND◆† ***NEW!***		572.50/2,500		STD878T4
	60	3	80	DPAK	497-10284-1-ND◆‡ ***NEW!***	.83	7.18	56.70	2STD1360T4
	60	3	80	DPAK	497-10284-2-ND◆† ***NEW!***		685.00/2,500		2STD1360T4
	80	8	40	DPAK	497-2504-1-ND◆‡	.80	6.92	54.60	MJD44H11T4
	80	8	40	DPAK	497-2504-2-ND◆†		660.00/2,500		MJD44H11T4
	100	2	1,000	DPAK	497-2462-1-ND◆‡	.84	7.26	57.30	MJD112T4
	100	2	1,000	DPAK	497-2462-2-ND◆†		692.50/2,500		MJD112T4
	100	3	10	DPAK	497-2484-1-ND◆‡	.73	6.31	49.80	MJD31CT4
	100	3	10	DPAK	497-2484-2-ND◆†		602.50/2,500		MJD31CT4
	100	3	10	DPAK	497-10312-1-ND◆‡ ***NEW!***	1.00	8.94	71.01	MJD31CT4-A
	100	3	10	DPAK	497-10312-2-ND◆† ***NEW!***		920.00/2,500		MJD31CT4-A
	100	5	1,000	DPAK	497-2469-1-ND◆‡	.91	7.87	62.10	MJD122T4
	100	5	1,000	DPAK	497-2469-2-ND◆†		750.00/2,500		MJD122T4
	150	5	200	DPAK	497-5104-1-ND◆‡	1.20	10.71	85.05	STD1805T4
	150	5	200	DPAK	497-5104-2-ND◆†		1102.50/2,500		STD1805T4
	150	6	150	DPAK	497-5236-1-ND◆‡	1.00	8.94	71.01	2STD1665T4
	150	6	150	DPAK	497-5236-2-ND◆†		920.00/2,500		2STD1665T4
	350	1	30	DPAK	497-2482-1-ND◆‡	.95	8.25	65.10	MJD47T4
	350	1	30	DPAK	497-2482-2-ND◆†		787.50/2,500		MJD47T4
	1050	2.5	25	DPAK	497-7735-1-ND◆‡	1.00	8.94	71.01	BULD741T4
	1050	2.5	25	DPAK	497-7735-2-ND◆†		920.00/2,500		BULD741T4
	1050	4	25	DPAK	497-7736-1-ND◆‡	1.00	8.94	71.01	BULD742CT4
	1050	4	25	DPAK	497-7736-2-ND◆†		920.00/2,500		BULD742CT4
	400	3	8	DPAK	497-8786-1-ND◆‡	.97	8.40	66.30	STLD128DNT4
	400	3	8	DPAK	497-8786-2-ND◆†		800.00/2,500		STLD128DNT4
19	100	12	750	D2PAK	497-10113-1-ND◆‡ ***NEW!***	1.12	10.00	79.38	2STBN15D100
	100	12	750	D2PAK	497-10113-2-ND◆† ***NEW!***		441.00/1,000		2STBN15D100
	350	15	300	D2PAK	497-6203-5-ND◆∆	3.47	30.98	254.00	BUB941ZT
	400	8	8	D2PAK	497-5726-1-ND◆‡	1.08	9.66	76.68	STB13007DT4
	400	8	8	D2PAK	497-5726-2-ND◆†		426.00/1,000		STB13007DT4
	350	15	300	D2PAK	497-7734-1-ND◆‡∆	3.47	31.19	254.10	BUB941ZTT4
	350	15	300	D2PAK	497-7734-2-ND◆†∆		1617.00/1,000		BUB941ZTT4
20	15	0.6	—	SOT-343	497-8293-1-ND◆‡	1.71	15.30	121.50	START499ETR
	15	0.6	—	SOT-343	497-8293-2-ND◆†		1890.00/3,000		START499ETR
					PNP				
1	60	0.6	100	TO-39	497-2572-5-ND◆	1.07	9.46	74.73	2N2905A
	60	0.6	100	TO-18	497-2577-ND◆	.92	8.15	64.44	2N2907A
	60	0.6	100	TO-18	497-2910-5-ND◆	.92	8.15	64.44	2N2907
	200	1	30	TO-39	497-2593-5-ND◆	1.23	10.88	86.00	2N5415
	350	1	30	TO-39	497-2596-5-ND◆	1.32	11.72	92.61	2N5416
2	100	20	750	TO-3	497-2548-5-ND◆	4.06	36.23	297.05	2N6287
	250	17	80	TO-3	497-8739-ND◆	3.79	33.88	277.78	2ST2121
3	100	25	40	TO-3P	497-6955-5-ND◆	2.77	25.00	200.93	2STA2510
	120	8	70	TO-3P	497-6954-5-ND◆	2.77	25.00	200.93	2STA1694
	140	10	70	TO-3P	497-7054-5-ND◆	2.93	26.46	212.63	2STA1695
	230	15	80	TO-3P	497-7056-5-ND◆	2.93	26.46	212.63	2STA1962
	250	17	80	TO-3P	497-8740-5-ND◆	3.53	31.50	258.30	2STA2120
4	20	1.5	200	TO-92	497-7067-ND◆	.47	3.72	25.55	2STX2220
	60	3	100	TO-92	497-4430-1-ND◆‡▲	.69	5.54	41.58	STX790A-AP
	60	3	100	TO-92	497-4430-3-ND◆§▲		390.60/2,000		STX790A-AP
	300	.5	25	TO-92	497-7572-ND◆	.57	3.90	18.20	STPSA92
	300	0.5	50	TO-92	497-5718-1-ND◆‡▲	.34	2.41	14.47	BF421-AP
5	60	4	750	SOT-32	497-5715-ND◆∆	.92	8.05	62.10	BD678
	80	4	20	SOT-32	497-2585-5-ND◆	.97	8.47	65.34	2N5195
	80	4	750	SOT-32	497-5716-ND◆∆	.92	8.05	62.10	BD680
	80	4	750	SOT-32	497-2540-5-ND	.92	8.05	62.10	2N6036
	100	3	50	SOT-32	497-2553-5-ND◆	.63	5.53	42.66	MJE172
	300	0.5	30	SOT-32	497-2630-5-ND◆	.64	5.36	40.20	MJE350
	500	1.5	16	SOT-32	497-6999-ND◆	.88	7.74	59.67	ST93003
6	40	7	30	TO-220	497-2613-5-ND◆	1.03	9.11	72.03	2N6111
	45	10	40	TO-220	497-2587-5-ND◆	1.42	12.56	99.23	D45H5
	60	2	500	TO-220	497-2619-5-ND◆	.79	6.90	53.19	TIP115
	60	3	10	TO-220	497-2538-5-ND◆	.78	6.79	52.38	TIP32A
	60	5	1,000	TO-220	497-2618-5-ND◆	.76	6.62	51.03	TIP125
	60	6	15	TO-220	497-2552-5-ND◆	.89	7.91	62.48	TIP42A
	60	8	2,000	TO-220	497-2536-5-ND◆	.87	7.63	58.86	TIP105
	60	10	40	TO-220	497-2579-5-ND◆	1.06	9.39	74.24	D45H8
	70	10	20	TO-220	497-2621-5-ND◆	.97	8.51	65.61	MJE2955T
	80	5	1,000	TO-220	497-2570-5-ND◆	.73	6.37	49.14	TIP126
	80	8	750	TO-220	497-5214-5-ND◆	1.18	10.42	82.32	BDX54B
	80	10	40	TO-220	497-2578-5-ND◆	.93	8.25	65.17	D45H11
	100	2	500	TO-220	497-2559-5-ND◆	.72	6.27	48.33	TIP117
	100	3	10	TO-220	497-2628-5-ND◆	.67	5.88	45.36	TIP32C
	100	5	1,000	TO-220	497-2571-5-ND◆	.72	6.27	48.33	TIP127
	100	6	15	TO-220	497-2629-5-ND◆	.80	7.00	54.00	TIP42C
	100	8	1,000	TO-220	497-2606-5-ND◆	.87	7.63	58.86	TIP107
8	60	10	500	TO-247	497-2620-5-ND◆	2.05	18.48	148.50	TIP145
	100	6	50	TO-247	497-7063-5-ND◆	1.48	13.14	103.88	2STW1693
	100	10	500	TO-247	497-2569-5-ND◆	2.08	18.76	150.75	TIP147
	100	15	20	TO-247	497-2608-5-ND◆	1.85	16.69	134.10	TIP2955
	100	25	10	TO-247	497-2604-5-ND◆	1.89	17.05	137.03	TIP36C
	100	25	10	TO-247	497-4634-5-ND◆	2.34	21.17	170.10	TIP36CN
	140	10	20	TO-247	497-2603-5-ND◆	1.69	14.97	118.34	TIP34C
	140	10	70	TO-247	497-7064-5-ND◆	2.57	23.24	186.75	2STW1695
9	230	15	80	TO-264	497-7055-5-ND◆	3.09	27.94	224.55	2STA1943
	250	17	80	TO-264	497-8741-5-ND◆	4.70	42.00	344.40	2STA2121
11	100	5	1,000	TO-220FP	497-3271-5-ND◆	.92	8.15	64.44	TIP127FP

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel § Tape and Box ∆ Darlington ▲ Flared Lead *(Continued)*

Transistors *(Cont.)*

Fig.	VCB (V)	IC (A)	HFE Min.	Package	Digi-Key Part No.	Pricing 1	10	100	STMicro. Part No.
15	15	1.5	200	SOT-23	497-6206-1-ND◆‡	.51	3.60	24.00	2STR2215
	15	1.5	200	SOT-23	497-6206-2-ND◆†		258.00/3,000		2STR2215
	30	1.5	170	SOT-23	497-5686-1-ND◆‡	.56	3.98	26.50	2STR2230
	30	1.5	170	SOT-23	497-5686-2-ND◆†		285.00/3,000		2STR2230
	300	.5	25	SOT-23	497-7415-1-ND◆‡	.63	4.25	20.00	MMBTA92
	300	.5	25	SOT-23	497-7415-2-ND◆†		177.00/3,000		MMBTA92
16	40	5	50	SOT-223	497-5901-1-ND◆‡	.56	4.20	33.00	2STN2540
	40	5	50	SOT-223	497-5901-2-ND◆†		179.00/1,000		2STN2540
	45	5	100	SOT-223	497-6202-1-ND◆‡	.58	4.62	34.65	STN888
	45	5	100	SOT-223	497-6202-2-ND◆†		179.00/3,000		STN888
	50	5	95	SOT-223	497-9058-1-ND◆‡ ***NEW!***	.61	4.79	32.76	2STN1550
	50	5	95	SOT-223	497-9058-2-ND◆† ***NEW!***		151.00/1,000		2STN1550
	50	5	110	SOT-223	497-10027-1-ND◆‡ ***NEW!***	.52	4.18	31.35	2STN2550
	50	5	110	SOT-223	497-10027-2-ND◆† ***NEW!***		162.00/1,000		2STN2550
	60	3	160	SOT-223	497-6005-1-ND◆‡	.58	4.62	34.65	2STN2360
	60	3	160	SOT-223	497-6005-2-ND◆†		179.00/1,000		2STN2360
	60	3	100	SOT-223	497-4366-1-ND◆‡	.52	4.14	31.02	STN790A
	60	3	100	SOT-223	497-4366-2-ND◆†		159.80/1,000		STN790A
	60	5	150	SOT-223	497-7496-1-ND◆‡	.83	7.18	56.70	STN951
	60	5	150	SOT-223	497-7496-2-ND◆†		302.00/1,000		STN951
	80	1.5	30	SOT-223	497-7495-1-ND◆‡	1.12	10.00	79.38	STN817A
	80	1.5	30	SOT-223	497-7495-2-ND◆†		441.00/1,000		STN817A
17	20	1.5	200	SOT-89	497-6207-1-ND◆‡	.61	4.79	32.76	STF2220
	20	1.5	200	SOT-89	497-6207-2-ND◆†		347.50/2,500		STF2220
	30	3	30	SOT-89	497-4345-1-ND◆‡	1.20	10.71	85.05	STF817A
	30	3	30	SOT-89	497-4345-2-ND◆†		1102.50/2,500		STF817A
	40	3	200	SOT-89	497-7061-1-ND◆‡	.52	4.18	31.35	2STF2340
	40	3	200	SOT-89	497-7061-2-ND◆†		367.50/2,500		2STF2340
	50	5	95	SOT-89	497-9057-1-ND◆‡ ***NEW!***	.61	4.79	32.76	2STF1550
	50	5	95	SOT-89	497-9057-2-ND◆† ***NEW!***		347.50/2,500		2STF1550
	50	5	110	SOT-89	497-10028-1-ND◆‡ ***NEW!***	.52	4.18	31.35	2STF2550
	50	5	110	SOT-89	497-10028-2-ND◆† ***NEW!***		162.00/1,000		2STF2550
	60	3	160	SOT-89	497-6004-1-ND◆‡	.58	4.62	34.65	2STF2360
	60	3	160	SOT-89	497-6004-2-ND◆†		407.50/2,500		2STF2360
18	30	5	200	DPAK	497-9092-1-ND◆‡ ***NEW!***	.97	8.40	66.30	STD888T4
	30	5	200	DPAK	497-9092-2-ND◆† ***NEW!***		800.00/2,500		STD888T4
	60	3	80	DPAK	497-10285-1-ND◆‡ ***NEW!***	.88	7.60	60.00	2STD2360T4
	60	3	80	DPAK	497-10285-2-ND◆‡ ***NEW!***		725.00/2,500		2STD2360T4
	60	5	200	DPAK	497-7465-1-ND◆‡	.79	6.34	47.52	STD2805T4
	60	5	200	DPAK	497-7465-2-ND◆†		557.50/2,500		STD2805T4
	60	10	20	DPAK	497-3136-1-ND◆‡	.97	8.67	68.85	MJD2955T4
	60	10	20	DPAK	497-3136-2-ND◆†		892.50/2,500		MJD2955T4
	80	8	40	DPAK	497-6466-1-ND◆‡	.97	8.40	66.30	MJD45H11T4
	80	8	40	DPAK	497-6466-2-ND◆†		800.00/2,500		MJD45H11T4
	100	2	1,000	DPAK	497-6464-1-ND◆‡	.84	7.26	57.30	MJD117T4
	100	2	1,000	DPAK	497-6464-2-ND◆†		692.50/2,500		MJD117T4
	100	3	10	DPAK	497-2491-1-ND◆‡	.73	6.31	49.80	MJD32CT4
	100	3	10	DPAK	497-2491-2-ND◆†		602.50/2,500		MJD32CT4
	100	3	10	DPAK	497-10313-1-ND◆‡ ***NEW!***	1.00	8.94	71.01	MJD32CT4-A
	100	3	10	DPAK	497-10313-2-ND◆† ***NEW!***		920.00/2,500		MJD32CT4-A
	100	8	1,000	DPAK	497-2471-1-ND◆‡	.95	8.25	65.10	MJD127T4
	300	0.5	30	DPAK	497-3137-1-ND◆‡	.73	6.31	49.80	MJD350T4
	300	0.5	30	DPAK	497-3137-2-ND◆†		602.50/2,500		MJD350T4
21	40	3	100	TO-92AP	497-10111-1-ND◆‡ ***NEW!***	.69	5.54	41.58	STX790AG-AP
	40	3	100	TO-92AP	497-10111-3-ND◆§ ***NEW!***		390.60/2,000		STX790AG-AP
22	30	3	100	SOT23-6	497-6589-1-ND◆‡	.74	6.38	50.40	STT818B
	30	3	100	SOT23-6	497-6589-2-ND◆†		732.00/3,000		STT818B
NPN/PNP — RoHS Compliant									
2	100	15	20	TO-3	497-6712-ND	1.89	17.05	137.03	MJ2955
5	32	4	40	SOT-32	497-7169-5-ND	.80	7.00	54.00	BD435
	32	4	40	SOT-32	497-7170-5-ND	.80	7.00	54.00	BD436
	45	4	30	SOT-32	497-7171-5-ND	.80	7.00	54.00	BD437
	60	4	750	SOT-32	497-6658-5-ND	1.47	13.02	102.90	BD678A
	80	1.5	40	SOT-32	497-6656-5-ND	.84	7.35	56.70	BD139
	80	1.5	40	SOT-32	497-6657-5-ND	.69	5.80	43.50	BD140
	80	4	750	SOT-32	497-7175-5-ND	1.54	13.67	108.05	BD679A
	80	4	750	SOT-32	497-7176-5-NDΔ	1.54	13.67	108.05	BD680A
	100	4	750	SOT-32	497-7177-5-NDΔ	1.58	14.01	110.74	BD681
	100	4	750	SOT-32	497-7178-5-NDΔ	1.58	14.01	110.74	BD682
6	45	8	20	TO-220	497-7172-5-ND	1.32	11.72	92.61	BD534
	60	8	20	TO-220	497-7173-5-ND	1.36	12.06	95.31	BD536
	60	8	20	TO-220	497-8437-5-ND	1.36	12.06	95.31	BD535
	60	8	1,000	TO-220	497-7651-5-NDΔ	1.21	10.76	85.02	TIP135
	80	8	15	TO-220	497-7174-5-ND	1.44	12.71	100.45	BD537
	80	8	750	TO-220	497-7182-5-NDΔ	1.44	12.71	100.45	BDX53B
	100	6	15	TO-220	497-7168-5-ND	1.21	10.76	85.02	BD244C
	100	8	1,000	TO-220	497-7650-5-NDΔ	1.18	10.42	82.32	TIP132
	100	8	1,000	TO-220	497-7652-5-NDΔ	1.29	11.41	90.16	TIP137
	100	12	750	TO-220	497-7180-5-NDΔ	1.36	12.06	95.31	BDW93C
	100	12	750	TO-220	497-7181-5-NDΔ	1.36	12.06	95.31	BDW94C
	100	15	15	TO-220	497-6659-5-ND	1.40	12.37	97.76	BD911
	100	15	15	TO-220	497-7179-5-NDΔ	1.47	13.02	102.90	BD912
	100	15	500	TO-220	497-6762-5-ND	1.66	14.66	115.89	TIP147T
	100	15	500	TO-220	497-7653-5-NDΔ	1.60	14.42	115.88	TIP142T
18	70	10	20	DPAK	497-7854-1-ND‡	.97	8.67	68.85	MJD3055T4
	70	10	20	DPAK	497-7854-2-ND†		892.50/2,500		MJD3055T4
	300	.5	30	DPAK	497-6465-1-ND‡	.68	5.89	46.50	MJD340T4
	300	.5	30	DPAK	497-6465-2-ND†		562.50/2,500		MJD340T4
21	980	1.5	4	TO-92AP	497-7625-1-ND‡▲	.58	4.62	34.65	STX616-AP
	980	1.5	4	TO-92AP	497-7625-3-ND§▲		325.50/2,000		STX616-AP
23	45	5	80	8-SOIC	497-10033-1-ND‡ ***NEW!***	1.52	13.57	107.73	STS05DTP03
	45	5	80	8-SOIC	497-10033-2-ND† ***NEW!***		1397.50/2,500		STS05DTP03
	60	3	30	8-SOIC	497-4518-1-ND‡	1.16	10.37	82.35	STS01DTP06
	60	3	30	8-SOIC	497-4518-2-ND†		1067.50/2,500		STS01DTP06

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel § Tape and Box Δ Darlington ▲ Flared Lead

RF Power Transistors

Fig.	VDSS (V)	VGS (V)	ID (A)	Package	Digi-Key Part No.	Price Each 1	10	100	STMicro. Part No.
N-Channel									
LDMOST									
17	18	-0.5 ~ 15	1.5	SOT-89	497-8294-1-ND‡	3.19	4.35	3.55	PD84001
	18	-0.5 ~ 15	1.5	SOT-89	497-8294-2-ND†		3072.50/2,500		PD84001
	25	-0.5 ~ 15	2	SOT-89	497-8287-1-ND‡	4.83	4.35	3.55	PD84002
	25	-0.5 ~ 15	2	SOT-89	497-8287-2-ND†		5352.50/2,500		PD84002
	40	-0.5 ~ 15	2	SOT-89	497-8291-ND	3.42	3.05	2.51	PD85004
	4.5	—	1	SOT-89	497-8804-1-ND‡	2.00	1.71	1.40	START499D
	4.5	—	1	SOT-89	497-8804-2-ND†		1925.00/2,500		START499D
24	65	±20	14	M246	497-5474-ND	160.08	151.80	143.52	SD56120
25	65	±20	4	M243	497-5475-ND	58.65	55.20	49.17	SD57030
	65	±20	5	M243	497-5477-ND	77.80	73.09	66.01	SD57045
	65	±20	7	M243	497-5479-ND	82.80	77.63	69.87	SD57060
26	65	±20	4	M250	497-5476-ND	58.65	55.20	49.17	SD57030-01
	65	±20	7	M250	497-5480-ND	82.80	77.63	69.87	SD57060-01
27A	25	-0.5 ~ 15	5	PowerSO-10RF	497-10292-5-ND ***NEW!***	15.82	14.38	12.23	PD84006-E
	25	-0.5 ~ 15	7	PowerSO-10RF	497-8289-5-ND	16.46	14.96	12.72	PD84008-E
	25	±20	4	PowerSO-10RF	497-5295-5-ND	11.11	10.10	8.59	PD54003-E
	25	±20	5	PowerSO-10RF	497-5296-5-ND	16.46	14.96	12.72	PD54008-E
	40	-0.5 ~ 15	2	PowerSO-10RF	497-10293-5-ND ***NEW!***	15.82	14.38	12.23	PD85006-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-8296-5-ND	21.16	19.58	16.67	PD85015-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-10345-1-ND‡ ***NEW!***	21.16	20.64	17.46	PD85015TR-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-10345-2-ND† ***NEW!***		8728.80/600		PD85015TR-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-10096-1-ND‡ ***NEW!***	19.90	18.17	15.57	PD20010TR-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-10096-2-ND† ***NEW!***		7525.80/600		PD20010TR-E
	40	-0.5 ~ 15	7	PowerSO-10RF	497-8297-5-ND	29.68	27.46	23.38	PD85025-E
	40	-0.5 ~ 15	8	PowerSO-10RF	497-8290-5-ND	17.27	15.70	13.35	PD84010-E
	40	-0.5 ~ 15	8	PowerSO-10RF	497-8299-5-ND	34.28	31.71	27.00	PD85035-E
	40	±20	2.5	PowerSO-10RF	497-5297-5-ND	13.16	11.96	10.17	PD55003-E
	40	±20	4	PowerSO-10RF	497-5299-5-ND	16.46	14.96	12.72	PD55008-E
	40	±20	5	PowerSO-10RF	497-10097-1-ND‡ ***NEW!***	21.16	20.64	17.46	PD55015TR-E
	40	±20	5	PowerSO-10RF	497-10097-2-ND† ***NEW!***		8728.80/600		PD55015TR-E
	65	±20	2.5	PowerSO-10RF	497-5305-5-ND	33.58	31.07	26.45	PD57018-E
	65	±20	4	PowerSO-10RF	497-5307-5-ND	45.10	42.06	36.57	PD57030-E
	40	-0.5 ~ 15	7	PowerSO-10RF	497-8802-5-ND	24.28	22.46	19.13	PD20015-E
27B	40	-0.5 ~ 15	5	PowerSO-10RF	497-10095-1-ND‡ ***NEW!***	19.90	18.17	15.57	PD20010STR-E
	40	-0.5 ~ 15	5	PowerSO-10RF	497-10095-2-ND† ***NEW!***		7525.80/600		PD20010STR-E
	40	-0.5 ~ 15	7	PowerSO-10RF	497-8298-5-ND	29.68	27.46	23.38	PD85025S-E
	40	-0.5 ~ 15	8	PowerSO-10RF	497-8300-5-ND	34.28	31.71	27.00	PD85035S-E
	40	±20	2.5	PowerSO-10RF	497-5298-5-ND	13.16	11.96	10.17	PD55003S-E
	40	±20	4	PowerSO-10RF	497-5300-5-ND	16.46	14.96	12.72	PD55008S-E
	40	±20	7	PowerSO-10RF	497-5302-5-ND	29.68	27.46	23.38	PD55025S-E
	40	±20	7	PowerSO-10RF	497-5303-5-ND	34.28	31.71	27.00	PD55035S-E
	65	±20	1	PowerSO-10RF	497-10098-1-ND‡ ***NEW!***	17.73	16.20	13.88	PD57006STR-E
	65	±20	1	PowerSO-10RF	497-10098-2-ND† ***NEW!***		6708.00/600		PD57006STR-E
	65	±20	2.5	PowerSO-10RF	497-5306-5-ND	33.58	31.07	26.45	PD57018S-E
	65	±20	4	PowerSO-10RF	497-5308-5-ND	45.10	42.06	36.57	PD57030S-E
	65	±20	7	PowerSO-10RF	497-5310-5-ND	55.73	52.45	46.72	PD57060S-E
28	25	-0.5 ~ 15	5	PowerFLAT	497-8288-ND	9.53	8.58	7.05	PD84006L-E
	25	-0.5 ~ 15	7	PowerFLAT	497-8295-1-ND‡	10.63	9.63	8.02	PD84008L-E
	25	-0.5 ~ 15	7	PowerFLAT	497-8295-2-ND†		15639.00/3,000		PD84008L-E
HF/VHF/UHF									
12	65	±20	0.9	M113	497-5462-ND	44.94	41.90	36.44	SD2900
	65	±20	2.5	M113	497-5463-ND	44.94	41.90	36.44	SD2902
	65	±20	5	M113	497-5465-ND	47.73	44.51	38.70	SD2904
	125	±20	20	M174	497-5467-ND	73.06	68.64	62.00	SD2931-10
	125	±20	40	M177	497-5469-ND	123.92	115.80	108.08	SD2933
	130	±20	20	M174	497-5470-ND	81.59	76.65	69.23	SD2941-10
	130	±20	40	M177	497-5472-ND	136.44	127.50	119.00	SD2943
	250	±20	10	M174	497-8301-ND	80.05	75.05	67.55	SD3931-10
	250	±20	20	M177	497-8303-ND	140.30	131.10	122.36	SD3933
29	65	±20	5	M229	497-5464-ND	78.92	74.14	66.97	SD2903
30	125	±20	40	M244	497-5468-ND	151.87	141.92	132.46	SD2932
	130	±20	10	M244	497-5471-ND	152.58	144.70	136.80	SD2942
	250	±20	20	M244	497-8302-ND	162.26	153.87	145.47	SD3932
STAC244B									
31	125	20	40	STAC244B	497-8764-ND	119.60	112.13	100.92	STAC2932B
	130	20	40	STAC244B	497-8765-ND	119.60	112.13	100.92	STAC2942B
	250	20	20	STAC244B	497-8766-ND	119.60	112.13	100.92	STAC3932B

‡ Cut Tape † Tape and Reel

Specialized Transistors

Fig. 1 — TO-247-4L HP

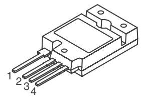

Fig. 2 — TO-247-4L HV

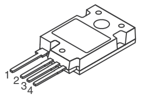

Fig.	VCS (V)	IC (A)	HFE Min.	Package	Digi-Key Part No.	Pricing 1	10	100	STMicro. Part No.
1	1500	8	4.5	TO-247-4L HP	497-7003-5-ND	9.19	82.69	679.88	STC08DE150HP
	1700	3	5	TO-247-4L HP	497-6272-5-ND	8.53	76.79	631.41	STC03DE170HP
	1700	4	—	TO-247-4L HP	497-7463-5-ND	6.17	55.13	452.03	STC04IE170HP
	2200	3	—	TO-247-4L HP	497-8438-5-ND	10.50	94.50	777.00	STC03DE220HP
2	1700	4	4	TO-247-4L HV	497-6201-5-ND	5.56	49.63	406.93	STC04IE170HV
	1700	3	5	TO-247-4L HV	497-6273-5-ND	8.53	76.79	631.41	STC03DE170HV
	2200	3	5	TO-247-4L HV	497-6314-5-ND	10.50	94.50	777.00	STC03DE220HV

Schottky Diodes

Fig. 1 — DO-35

Fig. 2 — DO-41, DO-201AD, DO-15

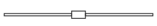

Fig. 3 — TO-220AC, TO-220AB (2 Pin)

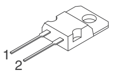

Fig. 4 — TO-220AB

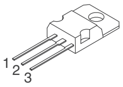

Fig. 5 — ISOTOP

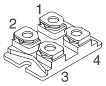

Fig. 6 — TO-247

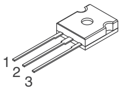

Fig. 7 — SOT-23, SOT-323-3

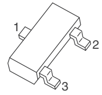

Fig. 8 — SOT-323-6

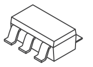

Fig. 9 — DPAK

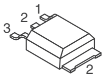

Fig. 10 — D2PAK

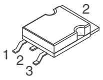

Fig. 11 — SMA, SMB, SMC

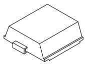

Fig. 12 — SOD-123, SOD-323

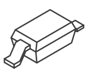

Fig. 13 — DO-216AA

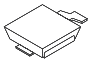

Fig. 14 — MINIMELF

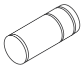

Fig. 15 — SOT-93

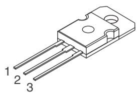

Fig. 16 — TOP-3I

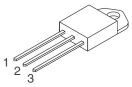

Fig. 17 — MELF

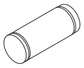

Fig. 18 — TO-220FPAB

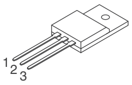

Fig. 19 — TO-220FPAC *NEW!*

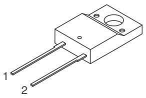

Fig. 20 — I2PAK

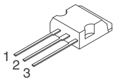

Fig. 21 — SOT-666

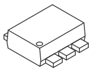

Fig. 22 — SOD-523, DO222-AA

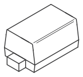

Fig. 23 — 16-DIP *NEW!*

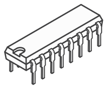

Fig. 24 — Power QFN *NEW!*

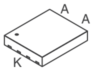

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
1	20	350mA	DO-35	497-3773-1-ND◆	.54	3.83	25.50	497-3773-2-ND◆	4,000	92.00/M	BAT47
	30	200mA	DO-35	497-2492-1-ND◆	.54	3.83	25.50	497-2492-2-ND◆	4,000	92.00/M	BAT43
	30	200mA	DO-35	497-2495-1-ND◆	.54	3.83	25.50	497-2495-2-ND◆	4,000	92.00/M	BAT42
	40	350mA	DO-35	497-2512-1-ND◆	.54	3.83	25.50	497-2512-2-ND◆	4,000	92.00/M	BAT48
	60	15mA	DO-35	497-2508-1-ND◆	.54	3.83	25.50	497-2508-2-ND◆	4,000	92.00/M	1N6263
	70	15mA	DO-35	497-2499-1-ND◆	.54	3.83	25.50	497-2499-2-ND◆	4,000	92.00/M	1N5711
	100	100mA	DO-35	497-2493-1-ND◆	.54	3.83	25.50	497-2493-2-ND◆	4,000	92.00/M	BAT41
	100	150mA	DO-35	497-3768-1-ND◆	.60	4.30	25.80	497-3768-2-ND◆	4,000	86.00/M	BAT46
2	20	1A	DO-41	497-4547-1-ND◆	.62	4.40	26.40	497-4547-3-ND◆§	2,000	88.00/M	1N5817
	30	1A	DO-41	497-4548-1-ND◆	.62	4.40	26.40	497-4548-3-ND◆§	2,000	88.00/M	1N5818
	30	3A	DO-201AD	497-5572-1-ND◆	.54	4.22	28.86	497-5572-2-ND◆	1,900	133.00/M	1N5821RL
	40	1A	DO-41	497-6610-1-ND◆	.62	4.40	26.40	497-6610-3-ND◆§	2,000	88.00/M	1N5819
	40	1A	DO-41	497-7053-1-ND◆	.62	4.40	26.40	497-7053-2-ND◆	5,000	79.00/M	1N5819RL
	20	3A	DO-201AD	497-6642-1-ND◆	.61	4.79	32.76	497-6642-3-ND◆§	600	120.96	1N5820
	40	5A	DO-201AD	497-6588-1-ND◆	.78	6.73	53.10	497-6588-2-ND◆	1,900	283.00/M	STPS5L40RL
	60	2A	DO-41	497-3214-1-ND◆	.57	4.53	33.99	497-3214-3-ND◆§	2,000	159.65/M	STPS2L60
	60	2A	DO-41	497-8032-1-ND◆	.57	4.53	33.99	497-8032-2-ND◆	5,000	149.00/M	STPS2L60RL
	60	3A	DO-201AD	497-7564-1-ND◆	.79	6.34	47.52	497-7564-2-ND◆	1,900	245.00/M	STPS3L60RL
	150	1A	DO-41	497-2447-1-ND◆	.52	4.10	28.08	497-2447-3-ND◆§	2,000	118.80/M	STPS1150
	150	2A	DO-15	497-3213-1-ND◆	.52	4.18	31.35	497-3213-3-ND◆§	1,000	161.50	STPS2150
	150	3A	DO-201AD	497-3216-1-ND◆	.58	4.62	34.65	497-3216-2-ND◆	1,900	179.00/M	STPS3150RL
3	15	20A	TO-220AC	497-7551-5-ND◆‡	2.57	23.24	186.75	—	—	—	STPS20L15D
	25	10A	TO-220AC	497-2738-5-ND◆‡	1.61	14.26	112.70	—	—	—	STPS10L25D
	45	7.5A	TO-220AC	497-2749-5-ND◆‡	.94	8.31	65.66	—	—	—	STPS745D
	45	10A	TO-220AC	497-2754-5-ND◆‡	.92	8.15	64.44	—	—	—	STPS1045D
	45	15A	TO-220AC	497-2753-5-ND◆‡	.99	8.80	69.58	—	—	—	STPS1545D
	60	10A	TO-220AC	497-7544-5-ND◆‡	1.75	15.47	122.26	—	—	—	STPS10L60D
	100	8A	TO-220AC	497-2737-5-ND◆‡	1.33	11.81	93.35	—	—	—	STPS8H100D
	120	20A	TO-220AB (2 Pin)	497-4627-5-ND◆‡	1.32	11.72	92.61	—	—	—	STPS20120D
	600	4A	TO-220AC	497-10082-5-ND◆‡ ***NEW!***	5.53	49.35	404.67	—	—	—	STPSC406D
	600	6A	TO-220AC	497-10309-5-ND◆‡ ***NEW!***	7.48	67.34	553.71	—	—	—	STPSC606D
	600	8A	TO-220AC	497-6822-5-ND◆‡	10.76	96.86	796.43	—	—	—	STPSC806D
	600	10A	TO-220AC	497-6821-5-ND◆‡	14.94	135.80	1154.30	—	—	—	STPSC1006D
	600	12A	TO-220AC	497-10308-5-ND◆‡ ***NEW!***	12.59	114.46	972.91	—	—	—	STPSC1206D
4	15	2 x 20A	TO-220AB	497-7565-5-ND◆‡	2.91	26.00	213.20	—	—	—	STPS40L15CT
	25	2 x 10A	TO-220AB	497-7552-5-ND◆‡	2.66	24.02	193.05	—	—	—	STPS20L25CT
	30	2 x 10A	TO-220AB	497-2750-5-ND◆‡	1.38	12.21	96.53	—	—	—	STPS2030CT
	30	2 x 15A	TO-220AB	497-2756-5-ND◆‡	1.87	16.91	135.90	—	—	—	STPS30L30CT
	30	2 x 15A	TO-220AB	497-7557-5-ND◆‡	1.66	14.66	115.89	—	—	—	STPS3030CT
	40	2 x 5A	TO-220AB	497-7543-5-ND◆‡	1.25	11.07	87.47	—	—	—	STPS10L40CT
	40	2 x 15A	TO-220AB	497-7561-5-ND◆‡	2.05	18.54	148.95	—	—	—	STPS30L40CT
	40	2 x 20A	TO-220AB	497-7566-5-ND◆‡	3.09	27.94	224.55	—	—	—	STPS40L40CT
	45	2 x 7.5A	TO-220AB	497-2747-5-ND◆‡	1.01	8.96	70.81	—	—	—	STPS1545CT
	45	2 x 10A	TO-220AB	497-7550-5-ND◆‡	1.47	13.02	102.90	—	—	—	STPS2045CT
	45	2 x 15A	TO-220AB	497-2751-5-ND◆‡	1.47	13.02	102.90	—	—	—	STPS3045CT
	45	2 x 20A	TO-220AB	497-7567-5-ND◆‡	2.60	23.52	189.00	—	—	—	STPS40L45CT
	45	2 x 30A	TO-220AB	497-7569-5-ND◆‡	3.09	27.58	226.12	—	—	—	STPS61L45CT
	45	2 x 12.5A	TO-220AB	497-7555-5-ND◆‡	1.71	15.46	124.20	—	—	—	STPS2445CT
	60	2 x 10A	TO-220AB	497-7553-5-ND◆‡	1.61	14.23	112.46	—	—	—	STPS20L60CT
	60	2 x 15A	TO-220AB	497-5137-5-ND◆‡	1.69	15.29	122.85	—	—	—	STPS30H60CT
	60	2 x 20A	TO-220AB	497-5206-5-ND◆‡	2.36	21.34	171.45	—	—	—	STPS41L60CT
	60	2 x 30A	TO-220AB	497-10081-5-ND◆‡ ***NEW!***	3.53	31.50	258.30	—	—	—	STPS61L60CT
	100	2 x 5A	TO-220AB	497-7542-5-ND◆‡	1.06	9.39	74.24	—	—	—	STPS10H100CT
	100	2 x 10A	TO-220AB	497-2726-5-ND◆‡	1.76	15.88	127.58	—	—	—	STPS20H100CT
	100	30A	TO-220AB	497-7556-5-ND◆‡	1.95	17.64	141.75	—	—	—	STPS30100ST
	100	2 x 15A	TO-220AB	497-7559-5-ND◆‡	2.28	20.58	165.38	—	—	—	STPS30H100CT
	100	2 x 20A	TO-220AB	497-8902-5-ND◆‡ ***NEW!***	3.97	35.45	290.69	—	—	—	STPS40M100CT
	100	2 x 20A	TO-220AB	497-6746-5-ND◆‡	2.25	20.30	163.13	—	—	—	STPS41H100CT
	100	2 x 30A	TO-220AB	497-3812-5-ND◆‡	4.06	36.23	297.05	—	—	—	STPS60H100CT
	120	2 x 10A	TO-220AB	497-4626-5-ND◆‡	1.29	11.41	90.16	—	—	—	STPS20120CT
	120	2 x 20A	TO-220AB	497-4629-5-ND◆‡	2.05	18.54	148.95	—	—	—	STPS40120CT
	150	2 x 8A	TO-220AB	497-2739-5-ND◆‡	2.17	19.57	157.28	—	—	—	STPS16150CT
	150	2 x 10A	TO-220AB	497-2730-5-ND◆‡	2.47	22.34	179.55	—	—	—	STPS20150CT
	150	2 x 15A	TO-220AB	497-5400-5-ND◆‡	2.93	26.46	212.63	—	—	—	STPS30150CT
	150	2 x 20A	TO-220AB	497-3217-5-ND◆‡	2.57	23.24	186.75	—	—	—	STPS40150CT
	150	2 x 30A	TO-220AB	497-5207-5-ND◆‡	3.59	32.03	262.61	—	—	—	STPS60150CT
	170	2 x 5A	TO-220AB	497-6076-5-ND◆‡	.90	7.95	62.82	—	—	—	STPS10170CT
	170	2 x 10A	TO-220AB	497-3525-5-ND◆‡	2.64	23.83	191.48	—	—	—	STPS20170CT
	170	2 x 15A	TO-220AB	497-4825-5-ND◆‡	1.89	17.08	137.25	—	—	—	STPS30170CT
	170	2 x 30A	TO-220AB	497-4828-5-ND◆‡	2.88	25.73	210.95	—	—	—	STPS60170CT
5	45	2 x 60A	ISOTOP	497-3207-5-ND◆‡	27.30	252.53	2149.88	—	—	—	STPS12045TV
	45	2 x 80A	ISOTOP	497-2741-5-ND◆‡	25.28	233.88	1991.12	—	—	—	STPS16045TV
	45	2 x 120A	ISOTOP	497-5399-5-ND◆‡	36.46	337.22	2870.91	—	—	—	STPS24045TV

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Schottky Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
5	100	2 x 40A	ISOTOP	497-5402-5-ND◆‡	25.54	236.21	2010.96	—	—	—	STPS80H100TV
	100	2 x 80A	ISOTOP	497-2723-5-ND◆‡	32.34	299.15	2546.78	—	—	—	STPS160H100TV
	170	2 x 100A	ISOTOP	497-5022-5-ND◆‡	25.20	233.10	1984.50	—	—	—	STPS200170TV1
	600	2 x 60A	ISOTOP	497-3811-5-ND◆‡	29.40	271.95	2315.25	—	—	—	STTH120L06TV1
6	30	2 x 30A	TO-247	497-2755-5-ND◆‡	4.70	42.00	344.40	—	—	—	STPS60L40CW
	40	2 x 15A	TO-247	497-7562-5-ND◆‡	3.38	30.20	247.64	—	—	—	STPS30L40CW
	40	2 x 30A	TO-247	497-7568-5-ND◆‡	5.17	46.20	378.84	—	—	—	STPS60L40CW
	45	2 x 15A	TO-247	497-7558-5-ND◆‡	1.63	14.70	118.13	—	—	—	STPS3045CW
	45	2 x 30A	TO-247	497-3803-5-ND◆‡	4.23	37.80	309.96	—	—	—	STPS6045CW
	45	2 x 30A	TO-247	497-3745-5-ND◆‡	4.79	42.80	350.96	—	—	—	STPS60L45CW
	45	2 x 30A	TO-247	497-7570-5-ND◆‡	3.38	30.20	247.64	—	—	—	STPS61L45CW
	60	2 x 15A	TO-247	497-5138-5-ND◆‡	1.79	16.18	130.05	—	—	—	STPS30H60CW
	100	2 x 15A	TO-247	497-7560-5-ND◆‡	2.44	22.01	176.85	—	—	—	STPS30H100CW
	100	2 x 20A	TO-247	497-2725-5-ND◆‡	3.00	26.78	219.56	—	—	—	STPS40H100CW
	100	2 x 30A	TO-247	497-3220-5-ND◆‡	3.72	33.23	272.45	—	—	—	STPS61H100CW
	150	2 x 15A	TO-247	497-5401-5-ND◆‡	4.21	37.55	307.91	—	—	—	STPS30150CW
	150	2 x 20A	TO-247	497-3218-5-ND◆‡	3.97	35.45	290.69	—	—	—	STPS40150CW
	150	2 x 40A	TO-247	497-3221-5-ND◆‡	5.88	52.50	430.50	—	—	—	STPS80150CW
	170	2 x 15A	TO-247	497-4826-5-ND◆‡	2.10	18.96	152.33	—	—	—	STPS30170CW
	170	2 x 30A	TO-247	497-4823-5-ND◆‡	4.06	36.23	297.05	—	—	—	STPS61170CW
	170	2 x 40A	TO-247	497-4815-5-ND◆‡	4.57	40.78	334.36	—	—	—	STPS80170CW
7	15	10mA	SOT-323-3	497-5691-1-ND◆	.41	2.89	17.37	497-5691-2-ND◆	3,000	72.00/M	BAS69WFILM
	15	10mA	SOT-323-3	497-5689-1-ND◆	.45	3.22	19.30	—	—	—	BAS69-06WFILM
	15	10mA	SOT-323-3	497-5688-1-ND◆	.45	3.22	19.30	497-5688-2-ND◆	3,000	64.00/M	BAS69-05WFILM
	15	10mA	SOT-323-3	497-5687-1-ND◆	.45	3.22	19.30	497-5687-2-ND◆	3,000	64.00/M	BAS69-04WFILM
	30	100mA	SOT-23	497-2518-1-ND◆	.53	3.80	22.80	497-2518-2-ND◆	3,000	76.00/M	BAR42FILM
	30	100mA	SOT-23	497-2521-1-ND◆	.53	3.80	22.80	497-2521-2-ND◆	3,000	76.00/M	BAR43FILM
	30	100mA	SOT-23	497-2514-1-ND◆	.53	3.80	22.80	497-2514-2-ND◆	3,000	76.00/M	BAR43AFILM
	30	100mA	SOT-23	497-2520-1-ND◆	.53	3.80	22.80	497-2520-2-ND◆	3,000	76.00/M	BAR43CFILM
	30	100mA	SOT-23	497-2515-1-ND◆	.53	3.80	22.80	497-2515-2-ND◆	3,000	76.00/M	BAR43SFILM
	30	300mA	SOT-323-3	497-2530-1-ND	.53	3.80	22.80	497-2530-2-ND	3,000	76.00/M	BAT54WFILM
	30	300mA	SOT-323-3	497-5549-1-ND◆	.43	3.06	18.33	497-5549-2-ND◆	3,000	61.00/M	BAT30AWFILM
	30	300mA	SOT-323-3	497-5550-1-ND◆	.43	3.06	18.33	—	—	—	BAT30CWFILM
	30	300mA	SOT-323-3	497-5553-1-ND◆	.56	4.00	24.00	497-5553-2-ND◆	3,000	80.00/M	BAT30SWFILM
	30	300mA	SOT-23	497-5699-1-ND◆	.38	2.73	16.40	497-5699-2-ND◆	3,000	55.00/M	BAT30FILM
	40	300mA	SOT-23	497-3786-1-ND◆	.53	3.80	22.80	497-3786-2-ND◆	3,000	76.00/M	BAT54CFILM
	40	300mA	SOT-23	497-2522-1-ND◆	.53	3.80	22.80	497-2522-2-ND◆	3,000	76.00/M	BAT54SFILM
	40	300mA	SOT-23	497-7161-1-ND◆	.59	4.20	25.20	497-7161-2-ND◆	3,000	84.00/M	BAT54AFILM
	40	300mA	SOT-23	497-7162-1-ND◆	.59	4.20	25.20	497-7162-2-ND◆	3,000	84.00/M	BAT54FILM
	40	300mA	SOT-323-3	497-2528-1-ND◆	.53	3.80	22.80	497-2528-2-ND◆	3,000	76.00/M	BAT54AWFILM
	70	70mA	SOT-23	497-2516-1-ND◆	.53	3.80	22.80	497-2516-2-ND◆	3,000	76.00/M	BAS70-04FILM
	70	70mA	SOT-23	497-5694-1-ND◆	.43	3.02	20.15	—	—	—	BAS70FILM
	70	70mA	SOT-23	497-2529-1-ND◆	.54	3.83	25.50	497-2529-2-ND◆	3,000	92.00/M	BAR18FILM
	70	70mA	SOT-323-3	497-6622-1-ND◆	.59	4.20	25.20	497-6622-2-ND◆	3,000	84.00/M	BAS70-06WFILM
	70	70mA	SOT-323-3	497-7158-1-ND◆	.59	4.20	25.20	497-7158-2-ND◆	3,000	84.00/M	BAS70-04WFILM
	70	70mA	SOT-23	497-7159-1-ND◆	.59	4.20	25.20	497-7159-2-ND◆	3,000	84.00/M	BAS70-05FILM
	100	150mA	SOT-23	497-5706-1-ND◆	.43	3.02	20.15	—	—	—	BAT46AFILM
	100	150mA	SOT-323-3	497-5707-1-ND◆	.56	3.98	26.50	497-5707-2-ND◆	3,000	95.00/M	BAT46AWFILM
	100	150mA	SOT-323-3	497-7160-1-ND◆	.51	3.60	24.00	497-7160-2-ND◆	3,000	86.00/M	BAT46WFILM
	100	200mA	SOT-323-3	497-5705-1-ND◆	.45	3.22	19.30	—	—	—	BAT41WFILM
	100	200mA	SOT-323-3	497-5555-1-ND◆	.50	3.54	21.23	497-5555-2-ND◆	3,000	71.00/M	BAT41AWFILM
	100	200mA	SOT-323-3	497-5703-1-ND◆	.50	3.54	21.23	—	—	—	BAT41CWFILM
8	70	70mA	SOT-323-6	497-8491-1-ND◆	.42	2.70	22.80	497-8491-2-ND◆	3,000	102.00/M	BAS70-08SFILM
9	25	5A	DPAK	497-8038-1-ND◆	1.62	14.48	115.02	497-8038-2-ND◆	2,500	596.00/M	STPS5L25B-TR
	30	8A	DPAK	497-3222-1-ND	1.26	11.25	89.37	497-3222-2-ND	2,500	463.00/M	STPS8L30B-TR
	30	2 x 7.5A	DPAK	497-6574-1-ND◆	1.24	11.12	88.29	497-6574-2-ND◆	2,500	458.00/M	STPS15L30CB-TR
	40	3A	DPAK	497-2466-1-ND◆	.88	7.60	60.00	497-2466-2-ND◆	2,500	290.00/M	STPS340B-TR
	40	2 x 3A	DPAK	497-8039-1-ND◆	1.12	10.00	79.38	497-8039-2-ND◆	2,500	412.00/M	STPS640CB-TR
	45	2 x 7.5A	DPAK	497-2748-5-ND◆‡	1.14	10.14	80.12	—	—	—	STPS15L45CB
	45	2 x 7.5A	DPAK	497-6575-1-ND◆	1.22	10.91	86.67	497-6575-2-ND◆	2,500	449.00/M	STPS15L45CB-TR
	45	10A	DPAK	497-6572-1-ND◆	1.06	9.49	75.33	497-6572-2-ND◆	2,500	391.00/M	STPS1045B-TR
	60	2 x 7.5A	DPAK	497-6576-1-ND◆	1.20	10.71	85.05	497-6576-2-ND◆	2,500	441.00/M	STPS15L60CB-TR
	100	5A	DPAK	497-2640-5-ND‡	1.58	14.01	110.74	—	—	—	STPS5H100B
	100	5A	DPAK	497-6587-1-ND◆	1.40	12.51	99.36	497-6587-2-ND◆	2,500	515.00/M	STPS5H100B-TR
	100	2 x 7.5A	DPAK	497-3208-1-ND	1.24	11.12	88.29	497-3208-2-ND	2,500	458.00/M	STPS15H100CB-TR
	170	2 X 5A	DPAK	497-6075-1-ND◆	1.26	11.25	89.37	497-6075-2-ND◆	2,500	463.00/M	STPS10170CB-TR
	170	2 X 8A	DPAK	497-6078-1-ND◆	1.56	13.97	110.97	497-6078-2-ND◆	2,500	575.00/M	STPS16170CB-TR
	600	4A	DPAK	497-10103-1-ND◆ ***NEW!***	6.21	55.86	455.18	497-10103-2-ND◆ ***NEW!***	2,500	2752.00/M	STPSC406B-TR
	600	6A	DPAK	497-10121-1-ND◆ ***NEW!***	8.21	74.35	619.60	497-10121-2-ND◆ ***NEW!***	1,000	4182.00	STPSC606G-TR
10	15	20A	D2PAK	497-6578-1-ND◆	3.49	29.94	244.51	497-6578-2-ND◆	1,000	1447.00	STPS20L15G-TR
	25	10A	D2PAK	497-5134-1-ND◆	1.99	17.07	139.41	497-5134-2-ND◆	1,000	825.00	STPS10L25G-TR
	30	2 x 15A	D2PAK	497-6581-1-ND◆	2.45	21.03	171.75	497-6581-2-ND◆	1,000	1016.00	STPS30L30CG-TR
	30	2 x 15A	D2PAK	497-8033-1-ND◆	2.21	18.90	154.35	497-8033-2-ND◆	1,000	914.00	STPS3030CG-TR
	30	2 x 20A	D2PAK	497-8037-1-ND◆	2.70	23.16	189.14	497-8037-2-ND◆	1,000	1119.00	STPS41L30CG-TR
	45	2 x 10A	D2PAK	497-6579-1-ND◆	1.74	15.61	123.93	497-6579-2-ND◆	1,000	689.00	STPS20L45CG-TR
	45	2 x 10A	D2PAK	497-2752-5-ND◆‡	1.61	14.23	112.46	—	—	—	STPS20L45CG
	45	2 x 12.5A	D2PAK	497-8027-1-ND◆	1.93	16.56	135.24	497-8027-2-ND◆	1,000	800.00	STPS2545CG-TR
	45	2 x 20A	D2PAK	497-3528-1-ND◆	2.22	18.99	155.09	497-3528-2-ND◆	1,000	918.00	STPS40L45CG-TR
	45	2 x 20A	D2PAK	497-4759-1-ND◆	2.98	25.53	208.50	497-4759-2-ND◆	1,000	1234.00	STPS41L45CG-TR
	60	2 x 15A	D2PAK	497-5136-1-ND◆	2.14	18.30	149.45	497-5136-2-ND◆	1,000	885.00	STPS30H60CG-TR
	60	2 x 15A	D2PAK	497-6582-1-ND◆	2.57	22.05	180.08	497-6582-2-ND◆	1,000	1066.00	STPS30L60CG-TR
	60	2 x 20A	D2PAK	497-6586-1-ND◆	3.34	28.65	233.98	497-6586-2-ND◆	1,000	1385.00	STPS41L60CG-TR
	100	8A	D2PAK	497-7571-1-ND◆	1.90	16.97	134.73	497-7571-2-ND◆	1,000	749.00	STPS8H100G-TR
	100	2 x 5A	D2PAK	497-4816-5-ND◆‡	1.21	10.70	84.53	—	—	—	STPS10H100CG
	100	2 x 5A	D2PAK	497-7541-1-ND◆	1.31	11.73	93.15	497-7541-2-ND◆	1,000	518.00	STPS10H100CG-TR
	100	2 x 10A	D2PAK	497-2457-1-ND◆	1.98	17.01	138.92	497-2457-2-ND◆	1,000	822.00	STPS20H100CG-TR
	100	2 x 20A	D2PAK	497-6585-1-ND◆	2.96	25.38	207.27	497-6585-2-ND◆	1,000	1227.00	STPS41H100CG-TR
	150	2 x 5A	D2PAK	497-6571-1-ND◆	2.28	19.53	159.50	497-6571-2-ND◆	1,000	944.00	STPS10150CG-TR
	150	2 x 20A	D2PAK	497-3527-5-ND◆‡	3.09	27.94	224.55	—	—	—	STPS40150CG
	150	2 x 20A	D2PAK	497-3754-1-ND◆	3.31	28.35	231.53	497-3754-2-ND◆	1,000	1370.00	STPS40150CG-TR
	170	2 x 5A	D2PAK	497-6074-1-ND◆	1.32	11.80	93.69	497-6074-2-ND◆	1,000	521.00	STPS10170CG-TR
	170	2 x 8A	D2PAK	497-6077-1-ND◆	1.84	16.42	130.41	497-6077-2-ND◆	1,000	725.00	STPS16170CG-TR
	170	2 x 10A	D2PAK	497-4761-1-ND◆	1.70	15.23	120.96	497-4761-2-ND◆	1,000	672.00	STPS20170CG-TR
	170	2 x 15A	D2PAK	497-5135-1-ND◆	2.14	18.30	149.45	497-5135-2-ND◆	1,000	885.00	STPS30170CG-TR
	170	2 x 20A	D2PAK	497-4760-1-ND◆	2.70	23.16	189.14	497-4760-2-ND◆	1,000	1119.00	STPS40170CG-TR
	600	12A	D2PAK	497-3814-5-ND◆‡	1.79	16.18	130.05	—	—	—	STTH12R06G

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk

(Continued)

Schottky Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
11	25	2A	SMB	497-5573-1-ND◆	.79	6.80	53.70	497-5573-2-ND◆	2,500	260.00/M	STPS2L25U
	25	2A	SMB Flat	497-8029-1-ND◆	.97	8.40	66.30	497-8029-2-ND◆	5,000	298.00/M	STPS2L25UF
	25	3A	SMC	497-3760-1-ND◆	.97	8.40	66.30	497-3760-2-ND◆	2,500	320.00/M	STPS3L25S
	30	1A	SMA	497-3755-1-ND◆	.58	4.62	34.65	497-3755-2-ND◆	5,000	152.00/M	STPS130A
	30	1A	SMA	497-6577-1-ND◆	.50	3.96	29.70	497-6577-2-ND◆	5,000	131.00/M	STPS1L30A
	30	1A	SMB	497-2468-1-ND◆	.59	4.67	31.98	497-2468-2-ND◆	2,500	135.00/M	STPS1L30U
	30	2A	SMA	497-3759-1-ND◆	.88	7.60	60.00	497-3759-2-ND◆	5,000	270.00/M	STPS2L30A
	30	2A	SMB Flat	497-8030-1-ND◆	.97	8.40	66.30	497-8030-2-ND◆	5,000	298.00/M	STPS2L30UF
	40	1A	SMA	497-2453-1-ND◆	.52	4.10	28.08	497-2453-2-ND◆	5,000	112.00/M	STPS140A
	40	1A	SMA	497-3753-1-ND	.52	4.18	31.35	—	—	—	STPS1L40A
	40	1A	SMB	497-2490-1-ND◆	.61	4.79	32.76	497-2490-2-ND◆	2,500	139.00/M	STPS140U
	40	2A	SMB	497-5574-1-ND◆	.67	5.37	40.26	497-5574-2-ND◆	2,500	189.00/M	STPS2L40U
	40	2A	SMB Flat	497-8031-1-ND◆	.88	7.56	59.70	497-8031-2-ND◆	5,000	269.00/M	STPS2L40UF
	40	3A	SMB	497-2465-1-ND◆	.74	6.38	50.40	497-2465-2-ND◆	2,500	244.00/M	STPS340U
	40	3A	SMB Flat	497-8036-1-ND◆	.74	6.38	50.40	497-8036-2-ND◆	5,000	227.00/M	STPS3L40UF
	40	3A	SMC	497-2464-1-ND◆	.70	6.00	47.40	497-2464-2-ND◆	2,500	229.00/M	STPS340S
	40	3A	SMC	497-4673-1-ND◆	.79	6.80	53.70	497-4673-2-ND◆	2,500	260.00/M	STPS3L40S
	60	5A	SMC	497-8487-1-ND◆	.97	8.40	66.30	497-8487-2-ND◆	2,500	320.00/M	STPS5L60S
	60	1A	SMA	497-2463-1-ND◆	.50	3.96	29.70	497-2463-2-ND◆	5,000	131.00/M	STPS1L60A
	60	1A	SMA	497-3756-1-ND◆	.74	6.38	50.40	497-3756-2-ND◆	5,000	227.00/M	STPS160A
	60	1A	SMB	497-7547-1-ND◆	.67	5.32	39.93	497-7547-2-ND◆	2,500	188.00/M	STPS160U
	60	3A	SMB	497-6584-1-ND◆	.70	6.00	47.40	497-6584-2-ND◆	2,500	229.00/M	STPS3L60U
	60	2A	SMA	497-2461-1-ND◆	.61	4.84	36.30	497-2461-2-ND◆	5,000	160.00/M	STPS2L60A
	60	3A	SMC	497-2454-1-ND◆	.75	6.50	51.30	497-2454-2-ND◆	2,500	248.00/M	STPS3L60S
	100	1A	SMA	497-3209-1-ND◆	.50	3.96	29.70	497-3209-2-ND◆	5,000	131.00/M	STPS1H100A
	100	1A	SMB	497-3210-1-ND◆	.52	4.18	31.35	497-3210-2-ND◆	2,500	147.00/M	STPS1H100U
	100	2A	SMA	497-3758-1-ND◆	.92	7.98	63.00	497-3758-2-ND◆	5,000	284.00/M	STPS2H100A
	100	2A	SMB	497-6580-1-ND◆	.96	8.57	68.04	497-6580-2-ND◆	2,500	353.00/M	STPS2H100U
	100	2A	SMB Flat	497-8028-1-ND◆	.97	8.40	66.30	497-8028-2-ND◆	5,000	298.00/M	STPS2H100UF
	150	1A	SMA	497-7545-1-ND◆	.61	4.79	32.76	497-7545-2-ND◆	5,000	130.00/M	STPS1150A
	150	2A	SMA	497-2467-1-ND◆	.52	4.18	31.35	497-2467-2-ND◆	5,000	138.00/M	STPS2150A
	150	3A	SMB	497-6583-1-ND◆	.81	6.47	48.51	497-6583-2-ND◆	2,500	228.00/M	STPS3150U
	150	3A	SMB Flat	497-8034-1-ND◆	.75	6.46	51.00	497-8034-2-ND◆	5,000	230.00/M	STPS3150UF
12	10	3A	SOD-323	497-3707-1-ND◆	.56	3.98	26.50	497-3707-2-ND◆	3,000	95.00/M	BAT60JFILM
	20	0.5A	SOD-123	497-3205-1-ND◆	.49	3.82	26.13	497-3205-2-ND◆	3,000	111.00/M	STPS0520Z
	23	1A	SOD-323	497-3381-1-ND◆	.60	4.28	28.50	497-3381-2-ND◆	3,000	103.00/M	BAT20JFILM
	40	300mA	SOT-323	497-7163-1-ND◆	.59	4.20	25.20	497-7163-2-ND◆	3,000	84.00/M	BAT54JFILM
	40	350mA	SOD-123	497-5712-1-ND◆	.54	3.83	25.50	497-5712-2-ND◆	3,000	92.00/M	BAT48ZFILM
	40	350mA	SOD-323	497-5711-1-ND◆	.54	3.83	25.50	497-5711-2-ND◆	3,000	92.00/M	BAT48JFILM
	40	0.5A	SOD-123	497-7538-1-ND◆	.44	3.48	23.79	497-7538-2-ND◆	3,000	101.00/M	STPS0540Z
	40	1A	SOD-123	497-7546-1-ND◆	.58	4.62	34.65	497-7546-2-ND◆	3,000	163.00/M	STPS140Z
	60	0.5A	SOD-123	497-3787-1-ND◆	.53	4.16	28.47	497-3787-2-ND◆	3,000	120.00/M	STPS0560Z
	70	70mA	SOD-123	497-5696-1-ND◆	.56	4.00	24.00	497-5696-2-ND◆	3,000	80.00/M	BAS70ZFILM
	70	70mA	SOD-323	497-6652-1-ND◆	.59	4.20	25.20	497-6652-2-ND◆	3,000	84.00/M	BAS70JFILM
	100	150mA	SOD-123	497-5559-1-ND◆	.54	3.83	25.50	497-5559-2-ND◆	3,000	92.00/M	BAT46ZFILM
	100	150mA	SOD-323	497-6653-1-ND◆	.59	4.20	25.20	497-6653-2-ND◆	3,000	84.00/M	BAT46JFILM
	100	200mA	SOD-123	497-5558-1-ND◆	.52	3.68	24.50	497-5558-2-ND◆	3,000	88.00/M	BAT41ZFILM
13	20	0.5A	DO-216AA	497-4390-1-ND◆	.50	3.91	26.79	—	—	—	STPS0520M
	20	1A	DO-216AA	497-3211-1-ND◆	.57	4.53	33.99	497-3211-2-ND◆	12,000	139.00/M	STPS1L20M
	20	1A	DO-216AA	497-6573-1-ND◆	.50	3.96	29.70	497-6573-2-ND◆	12,000	122.00/M	STPS120M
	30	1A	DO-216AA	497-8025-1-ND◆	.52	4.18	31.35	497-8025-2-ND◆	12,000	128.00/M	STPS1L30M
	40	1A	DO-216AA	497-3212-1-ND◆	.52	4.18	31.35	497-3212-2-ND◆	12,000	128.00/M	STPS1L40M
14	30	200mA	MINIMELF	497-3272-1-ND◆	.46	3.59	24.57	497-3272-2-ND◆	2,500	104.00/M	TMMBAT42FILM
	40	350mA	MINIMELF	497-3274-1-ND◆	.54	4.22	28.86	497-3274-2-ND◆	2,500	122.00/M	TMMBAT48FILM
	100	100mA	MINIMELF	497-7669-1-ND◆	.50	3.93	26.91	497-7669-2-ND◆	2,500	114.00/M	TMMBAT41FILM
	100	150mA	MINIMELF	497-3273-1-ND◆	.53	4.27	32.01	497-3273-2-ND◆	2,500	150.00/M	TMMBAT46FILM
15	45	2 x 15A	SOT-93	497-3215-5-ND‡	2.83	25.25	207.05	—	—	—	STPS3045CP
16	45	2 x 15A	TOP-3I	497-3526-ND◊	2.94	26.25	215.25	—	—	—	STPS3045CPIRG
17	40	1A	MELF	497-7668-1-ND◆	.55	4.40	33.00	497-7668-2-ND◆	1,500	170.00/M	TMBYV10-40FILM
	60	1A	MELF	497-6601-1-ND◆	.55	4.40	33.00	497-6601-2-ND◆	1,500	170.00/M	TMBYV10-60FILM
	80	500mA	MELF	497-3788-1-ND◆	.51	3.99	27.30	497-3788-2-ND◆	1,500	126.00/M	TMBAT49FILM
18	45	2 x 10A	TO-220FPAB	497-6080-5-ND◆‡	1.66	14.66	115.89	—	—	—	STPS2045CFP
	45	2 x 15A	TO-220FPAB	497-4393-5-ND◆‡	1.71	15.46	124.20	—	—	—	STPS30L45CFP
	60	2 x 15A	TO-220FPAB	497-7563-5-ND◆‡	2.18	19.65	157.90	—	—	—	STPS30L60CFP
	100	2 x 5A	TO-220FPAB	497-7540-5-ND◆‡	1.30	11.47	90.65	—	—	—	STPS10H100CFP
	100	2 x 10A	TO-220FPAB	497-6745-5-ND◆‡	2.78	25.14	202.05	—	—	—	STPS20H100CFP
	100	2 x 10A	TO-220FPAB	497-7554-5-ND◆‡	1.65	14.63	115.64	—	—	—	STPS20S100CFP
	120	2 x 10A	TO-220FPAB	497-7548-5-ND◆‡	1.54	13.94	112.00	—	—	—	STPS20120CFP
	150	2 x 5A	TO-220FPAB	497-7539-5-ND◆‡	1.10	9.77	77.18	—	—	—	STPS10150CFP
	150	2 x 10A	TO-220FPAB	497-4391-5-ND◆‡	1.69	15.23	122.40	—	—	—	STPS20150CFP
	170	2 x 10A	TO-220FPAB	497-7549-5-ND◆‡	2.78	25.14	202.05	—	—	—	STPS20170CFP
	170	2 x 15A	TO-220FPAB	497-4824-5-ND◆‡	2.39	21.37	175.24	—	—	—	STPS30170CFP
19	45	15A	TO-220FPAC	497-10041-5-ND◆‡ ***NEW!***	1.40	12.37	97.76	—	—	—	STPS1545FP
20	45	2 x 15A	I2PAK	497-4394-5-ND◆‡	1.63	14.70	118.13	—	—	—	STPS30L45CR
	120	2 x 10A	I2PAK	497-4625-5-ND◆‡	1.95	17.64	141.75	—	—	—	STPS20120CR
21	15	10mA	SOT-666	497-5690-1-ND◆	.41	3.22	22.06	497-5690-2-ND◆	3,000	93.00/M	BAS69-09P6FILM
	15	10mA	SOT-666	497-5545-1-ND◆	.41	3.22	22.06	497-5545-2-ND◆	3,000	109.00/M	BAS69-07P6FILM
	30	300mA	SOT-666	497-5548-1-ND◆	.54	4.22	28.86	497-5548-2-ND◆	3,000	122.00/M	BAT30-09P6FILM
	30	300mA	SOT-666	497-5547-1-ND◆	.52	4.10	28.08	497-5547-2-ND◆	3,000	119.00/M	BAT30-07P6FILM
	40	300mA	SOT-666	497-5560-1-ND◆	.40	3.13	21.43	—	—	—	BAT54-07P6FILM
	40	300mA	SOT-666	497-5713-1-ND◆	.40	3.13	21.43	497-5713-2-ND◆	3,000	91.00/M	BAT54-09P6FILM
	70	70mA	SOT-666	497-5693-1-ND◆	.40	3.13	21.43	—	—	—	BAS70-09P6FILM
	70	70mA	SOT-666	497-5692-1-ND◆	.40	3.13	21.43	497-5692-2-ND◆	3,000	112.00/M	BAS70-07P6FILM
	100	200mA	SOT-666	497-5554-1-ND◆	.43	3.41	23.32	497-5554-2-ND◆	3,000	122.00/M	BAT41-07P6FILM
	100	200mA	SOT-666	497-5702-1-ND◆	.57	4.45	30.42	497-5702-2-ND◆	3,000	129.00/M	BAT41-09P6FILM
22	30	300mA	SOD-523	497-5552-1-ND◆	.56	3.98	26.50	—	—	—	BAT30KFILM
	40	300mA	SOD-523	497-5561-1-ND◆	.56	3.98	26.50	497-5561-2-ND◆	3,000	95.00/M	BAT54KFILM
	70	70mA	SOD-523	497-5695-1-ND◆	.56	3.98	26.50	497-5695-2-ND◆	3,000	95.00/M	BAS70KFILM
	100	200mA	SOD-523	497-5556-1-ND◆	.63	4.43	29.50	497-5556-2-ND◆	3,000	106.00/M	BAT41KFILM
	20	1A	DO222-AA	497-8024-1-ND◆	.81	6.47	48.51	497-8024-2-ND◆	12,000	198.00/M	STPS1L20MF
	30	1A	DO222-AA	497-8026-1-ND◆	.81	6.47	48.51	497-8026-2-ND◆	12,000	198.00/M	STPS1L30MF
	60	1A	DO222-AA	497-10012-1-ND◆ ***NEW!***	.75	6.03	45.21	497-10012-2-ND◆ ***NEW!***	12,000	185.00/M	STPS1L60MF
23	50	2A	16-DIP	497-8816-5-ND◆‡ ***NEW!***	3.05	27.23	223.25	—	—	—	E-L6210
24	30	2 x 7.5A	Power QFN (5 x 6)	497-10102-1-ND◆ ***NEW!***	2.76	23.64	193.06	497-10102-2-ND◆ ***NEW!***	5,000	1024.00/M	STPS15L30CDJF-TR
	45	30A	Power QFN (5 x 6)	497-10343-1-ND◆ ***NEW!***	2.87	24.57	200.66	497-10343-2-ND◆ ***NEW!***	5,000	1065.00/M	STPS3045DJF-TR
	100	30A	Power QFN (5 x 6)	497-10342-1-ND◆ ***NEW!***	2.94	25.20	205.80	497-10342-2-ND◆ ***NEW!***	5,000	1092.00/M	STPS30M100DJF-TR
	120	30A	Power QFN (5 x 6)	497-10101-1-ND◆ ***NEW!***	2.76	23.64	193.06	497-10101-2-ND◆ ***NEW!***	5,000	1024.00/M	STPS30120DJF-TR
	170	30A	Power QFN (5 x 6)	497-10344-1-ND◆ ***NEW!***	3.42	29.31	239.37	497-10344-2-ND◆ ***NEW!***	5,000	1270.00/M	STPS30170DJF-TR

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fast Diodes

Fig. 1 — DO-15, DO-41, DO-201AB, DO-201AD

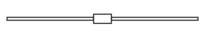

Fig. 2 — TO-220AC

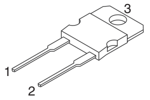

Fig. 3 — TO-220AB

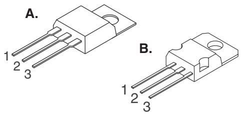

Fig. 4 — TO-247

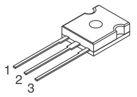

Fig. 5 — DOP3I Isolated

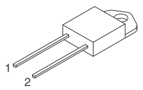

Fig. 6 — ISOTOP, MAX247

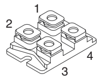

Fig. 7 — SMA, SMB, SMC

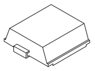

Fig. 8 — TO-220FPAC

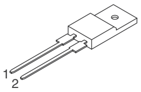

Fig. 9 — TO-220AB Isolated

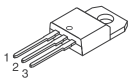

Fig. 10 — TO-220, TO-220AC Isolated

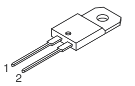

Fig. 11 — DPAK

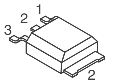

Fig. 12 — D²PAK

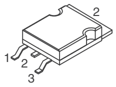

Fig. 13 — I²PAK

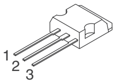

Fig. 14 — TO-220FPAB

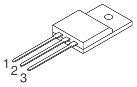

Fig. 15 — TOP3 Isolated

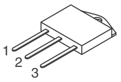

Fig. 16 — DO-247

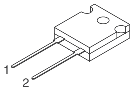

Fig. 17 — TO-220FPAB F5

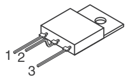

Fig. 18 — TO-220FPAB FD6

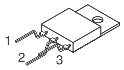

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
1	200	1.5A	DO-15	497-7586-1-ND◆‡	.57	4.50	30.81	497-7586-2-ND◆	6,000	122.00/M	STTH1R02QRL
	200	2A	DO-15	497-5763-1-ND◆‡	.50	3.91	26.79	—	—	—	STTH2R02QRL
	200	3A	DO-15	497-5765-1-ND◆‡	.52	4.18	31.35	497-5765-2-ND◆	6,000	138.00/M	STTH3R02QRL
	400	1A	DO-15	497-2446-1-ND◆‡	.44	3.48	23.79	497-2446-3-ND◆§	1,000	109.80	BYT01-400
	800	2A	DO-15	497-2443-1-ND◆‡	.70	6.00	47.40	497-2443-3-ND◆§	1,000	252.80	STTH208
	200	1A	DO-41	497-3666-1-ND◆‡	.54	4.22	28.86	497-3666-3-ND◆§	2,000	122.10/M	STTH102
	200	1A	DO-41	497-6590-1-ND◆‡	.54	4.22	28.86	497-6590-2-ND◆	5,000	115.00/M	STTH102RL
	200	1.5A	DO-41	497-5571-1-ND◆‡	.54	4.22	28.86	497-5571-3-ND◆§	2,000	122.10/M	STTH1R02
	200	1.5A	DO-41	497-6098-1-ND◆‡	.50	3.93	26.91	497-6098-2-ND◆	5,000	107.00/M	STTH1R02RL
	600	1A	DO-41	497-3242-1-ND‡	.50	3.96	29.70	497-3242-2-ND	5,000	131.00/M	STTH1L06RL
	600	1A	DO-41	497-3243-1-ND◆‡	.61	4.79	32.76	497-3243-2-ND◆	5,000	130.00/M	STTH1R06RL
	600	2A	DO-41	497-3548-ND◆	.55	4.60	34.50	—	—	—	STTH2L06
	600	2A	DO-41	497-3752-1-ND◆‡	.64	5.10	38.28	497-3752-3-ND◆§	2,000	180.00/M	STTH2R06
	600	2A	DO-41	497-4409-1-ND◆‡	.64	5.10	38.28	497-4409-2-ND◆	5,000	168.00/M	STTH2R06L
	200	4A	DO-201AB	497-6088-1-ND◆‡	.66	5.71	45.07	497-6088-3-ND◆§	600	180.26	STTH4R02
	200	4A	DO-201AB	497-5259-1-ND◆‡	.86	7.41	58.50	497-5259-2-ND◆	1,900	312.00/M	STTH4R02RL
	200	3A	DO-201AD	497-6084-1-ND◆‡	.50	3.96	29.70	497-6084-3-ND◆§	600	118.80	STTH3R02
	200	3A	DO-201AD	497-2445-1-ND◆‡	.58	4.62	34.65	497-2445-3-ND§	600	138.60	STTH302
	200	3A	DO-201AD	497-5257-1-ND◆‡	.52	4.18	31.35	497-5257-2-ND◆	1,900	162.00/M	STTH3R02RL
	600	3A	DO-201AD	497-3246-1-ND‡	.70	6.00	47.40	497-3246-3-ND◆§	600	189.60	STTH3L06
	600	3A	DO-201AD	497-4414-1-ND◆‡	.83	7.18	56.70	497-4414-3-ND◆§	600	226.80	STTH3R06
	600	3A	DO-201AD	497-4415-1-ND◆‡	.83	7.18	56.70	—	—	—	STTH3R06RL
	600	5A	DO-201AD	497-5231-1-ND◆‡	1.06	9.20	72.60	497-5231-2-ND◆	1,900	387.00/M	STTH5L06RL
	1,000	3A	DO-201AD	497-2442-1-ND◆‡	.70	6.00	47.40	497-2442-3-ND◆§	600	189.60	STTH310
	1,000	3A	DO-201AD	497-7597-1-ND◆‡	.70	6.00	47.40	497-7597-2-ND◆	1,900	253.00/M	STTH310RL
2	200	8A	TO-220AC	497-5284-5-ND◆	.88	7.81	61.74	—	—	—	STTH802D
	200	12A	TO-220AC	497-7577-5-ND◆	2.02	18.23	146.48	—	—	—	STTH1202D
	200	15A	TO-220AC	497-5274-5-ND◆	1.47	13.02	102.90	—	—	—	STTH1502D
	200	15A	TO-220AC	497-3204-5-ND◆	1.64	14.85	119.34	—	—	—	STPR1520D
	200	20A	TO-220AC	497-5276-5-ND◆	2.06	18.62	149.63	—	—	—	STTH2002D
	300	8A	TO-220AC	497-7607-5-ND◆	1.29	11.41	90.16	—	—	—	STTH803D
	400	8A	TO-220AC	497-6685-5-ND◆	2.05	18.54	148.95	—	—	—	BYT08P-400
	400	8A	TO-220AC	497-7611-5-ND◆	1.73	15.31	121.03	—	—	—	STTH8R04D
	400	10A	TO-220AC	497-7574-5-ND◆	1.66	14.66	115.89	—	—	—	STTH10R04D
	400	20A	TO-220AC	497-7588-5-ND◆	1.60	14.42	115.88	—	—	—	STTH20R04D
	400	30A	TO-220AC	497-7594-5-ND◆	3.29	29.40	241.08	—	—	—	STTH30R04D
	600	5A	TO-220AC	497-2746-5-ND◆	1.75	15.47	122.26	—	—	—	STTH5R06D
	600	8A	TO-220AC	497-9065-5-ND◆ ***NEW!***	1.58	14.01	110.74	—	—	—	STTH8S06D
	600	8A	TO-220AC	497-2745-5-ND◆	2.02	18.23	146.48	—	—	—	STTH8R06D
	600	12A	TO-220AC	497-5406-5-ND◆	1.86	16.77	134.78	—	—	—	STTH12R06D
	600	15A	TO-220AC	497-5408-5-ND◆	2.28	20.58	165.38	—	—	—	STTH15R06D
	1,000	8A	TO-220AC	497-5162-5-ND◆	1.82	16.46	132.30	—	—	—	STTH810D
	1,000	12A	TO-220AC	497-5148-5-ND◆	2.12	19.12	153.68	—	—	—	STTH1210D
	1,000	30A	TO-220AC	497-5153-5-ND◆	2.91	25.98	213.00	—	—	—	STTH3010D
	1,200	8A	TO-220AC	497-5164-5-ND◆	1.69	15.23	122.40	—	—	—	STTH812D
	1,200	12A	TO-220AC	497-5150-5-ND◆	2.44	22.06	177.30	—	—	—	STTH1212D
	1,200	30A	TO-220AC	497-5155-5-ND◆	3.04	27.18	222.84	—	—	—	STTH3012D
	1,200	30A	TO-220AC	497-5158-5-ND◆	1.32	11.72	92.61	—	—	—	STTH512D
3A	200	2 x 3A	TO-220AB	497-7601-5-ND◆	.63	5.53	42.66	—	—	—	STTH602CT
	400	2 x 8A	TO-220AB	497-7585-5-ND◆	2.02	18.23	146.48	—	—	—	STTH16R04CT

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
3B	200	8A	TO-220AB	497-3540-5-ND◆	.92	8.15	64.44	—	—	—	STTH1002CT
	200	10A	TO-220AB	497-3544-5-ND◆	1.03	9.11	72.03	—	—	—	STTH1602CT
	200	15A	TO-220AB	497-3547-5-ND◆	1.47	13.02	102.90	—	—	—	STTH2002CT
	200	15A	TO-220AB	497-3551-5-ND◆	4.15	37.03	303.61	—	—	—	STTH3002CT
	300	2 x 10A	TO-220AB	497-2743-5-ND◆	2.14	19.29	155.03	—	—	—	STTH2003CT
	600	2 x 5A	TO-220AB	497-10083-5-ND◆ ***NEW!***	2.31	20.89	167.85	—	—	—	STTH10LCD06CT
	600	2 x 10A	TO-220AB	497-3818-5-ND◆	1.76	15.88	127.58	—	—	—	STTH16L06CT
	600	2 x 10A	TO-220AB	497-10084-5-ND◆ ***NEW!***	3.06	27.64	222.08	—	—	—	STTH20LCD06CT
4	200	15A	TO-247	497-3552-5-ND◆	4.53	40.43	331.49	—	—	—	STTH3002CW
	200	30A	TO-247	497-3553-5-ND◆	5.26	47.00	385.40	—	—	—	STTH6002CW
	300	2 x 15A	TO-247	497-2742-5-ND◆	4.53	40.43	331.49	—	—	—	STTH3003CW
	300	2 x 15A	TO-247	497-7593-5-ND◆	3.04	27.18	222.84	—	—	—	STTH30R03CW
	300	2 x 30A	TO-247	497-2720-5-ND◆	5.44	48.58	398.32	—	—	—	STTH6003CW
	300	60A	TO-247	497-4416-5-ND◆	3.07	27.45	225.09	—	—	—	STTH60P03SW
	600	2 x 20A	TO-247	497-3797-5-ND◆	3.06	27.30	223.86	—	—	—	STTH30L06CW
	600	2 x 40A	TO-247	497-3790-5-ND◆	6.15	54.88	449.98	—	—	—	STTH60L06CW
	600	2 x 15A	TO-247	497-5411-5-ND◆	4.70	42.00	344.40	—	—	—	STTH30R06CW
5	200	30A	Isolated DOP3I	497-6087-5-ND◆	3.41	30.45	249.69	—	—	—	STTH3002PI
	400	30A	Isolated DOP3I	497-3806-5-ND◆	3.21	28.63	234.73	—	—	—	BYT30PI-400RG
	400	30A	Isolated DOP3I	497-7595-5-ND◆	4.56	40.70	333.74	—	—	—	STTH30R04PI
	600	15A	Isolated DOP3I	497-3240-5-ND◆	5.59	49.88	408.98	—	—	—	STTH1506DPI
	600	30A	Isolated DOP3I	497-3245-5-ND◆	10.50	94.50	777.00	—	—	—	STTH3006DPI
	600	30A	Isolated DOP3I	497-5279-5-ND◆	3.32	29.60	242.72	—	—	—	STTH3006PI
	1,000	30A	Isolated DOP3I	497-6748-5-ND◆	3.85	34.40	282.08	—	—	—	STTH3010PI
	1,200	15A	Isolated DOP3I	497-6096-5-ND◆	3.09	27.94	224.55	—	—	—	STTH1512PI
6	200	2 x 30A	ISOTOP	497-3554-5-ND◆	16.73	154.73	1317.27	—	—	—	STTH6102TV1
	200	2 x 50A	ISOTOP	497-5273-5-ND◆	19.64	178.50	1517.25	—	—	—	STTH10002TV2
	200	2 x 50A	ISOTOP	497-5272-5-ND◆	19.64	178.50	1517.25	—	—	—	STTH10002TV1
	200	120A	ISOTOP	497-3819-5-ND◆	38.75	361.35	3142.20	—	—	—	STTH20002TV1
	300	2 x 80A	ISOTOP	497-5410-5-ND◆	27.30	252.53	2149.88	—	—	—	STTH16003TV1
	400	2 x 30A	ISOTOP	497-7220-5-ND◆	19.64	178.50	1517.25	—	—	—	BYT230PIV-400
	400	60A	ISOTOP	497-2681-5-ND◆	21.61	199.89	1701.79	—	—	—	BYT261PIV-400
	400	2 x 60A	ISOTOP	497-5023-5-ND◆	23.10	213.68	1819.13	—	—	—	STTH12004TV1
	400	2 x 60A	ISOTOP	497-7580-5-ND◆	21.92	202.75	1726.07	—	—	—	STTH120L04TV1
	400	2 x 120A	ISOTOP	497-7587-5-ND◆	33.60	310.80	2646.00	—	—	—	STTH20004TV1
	400	2 x 120A	ISOTOP	497-6089-5-ND◆	27.30	252.53	2149.88	—	—	—	STTH200L04TV1
	600	2 x 120A	ISOTOP	497-4408-5-ND◆	31.50	291.38	2480.63	—	—	—	STTH200L06TV1
	600	2 x 40A	ISOTOP	497-6092-5-ND◆	20.35	188.24	1602.56	—	—	—	STTH60L06TV2
	1,000	2 x 30A	ISOTOP	497-6749-5-ND◆	21.48	195.30	1660.05	—	—	—	STTH6110TV2
	1,200	2 x 30A	ISOTOP	497-8814-5-ND◆	21.95	199.50	1695.75	—	—	—	STTH6112TV2
	1,200	2 x 45A	ISOTOP	497-6750-5-ND◆	22.05	203.96	1736.44	—	—	—	STTH9012TV2
	1,200	2 x 60A	ISOTOP	497-7576-5-ND◆	28.98	268.07	2282.18	—	—	—	STTH12012TV1
	300	2 x 40A	MAX247	497-7604-5-ND◆	14.28	129.78	1103.13	—	—	—	STTH8003CY
7	200	1A	SMA	497-2500-1-ND◆‡	.50	3.93	26.91	497-2500-2-ND◆	5,000	107.00/M	STTH102A
	200	1.5A	SMA	497-5254-1-ND◆‡	.53	4.16	28.47	497-5254-2-ND◆	5,000	113.00/M	STTH1R02A
	200	2A	SMA	497-5255-1-ND◆‡	.58	4.62	34.65	497-5255-2-ND◆	5,000	152.00/M	STTH2R02A
	600	1A	SMA	497-3241-1-ND◆‡	.50	3.96	29.70	497-3241-2-ND◆	5,000	131.00/M	STTH1L06A
	600	1A	SMA	497-3765-1-ND◆‡	.52	4.18	31.35	497-3765-2-ND◆	5,000	138.00/M	STTH1R06A
	600	2A	SMA	497-3549-1-ND◆‡	.63	5.06	37.95	497-3549-2-ND◆	5,000	167.00/M	STTH2L06A
	600	2A	SMA	497-3777-1-ND◆‡	.83	7.18	56.70	497-3777-2-ND◆	5,000	255.00/M	STTH2R06A
	800	1A	SMA	497-2459-1-ND◆‡	.64	5.10	38.28	497-2459-2-ND◆	5,000	168.00/M	STTH108A
	1,200	1A	SMA	497-8048-1-ND◆‡	.74	5.90	44.22	497-8048-2-ND◆	5,000	194.00/M	STTH112A
	200	1.5A	SMB	497-6097-1-ND◆‡	.57	4.50	30.81	497-6097-2-ND◆	2,500	130.00/M	STTH1R02U
	200	2A	SMB	497-5256-1-ND◆‡	.73	5.81	43.56	497-5256-2-ND◆	2,500	205.00/M	STTH2R02U
	200	4A	SMB	497-5260-1-ND◆‡	.96	8.28	65.40	497-5260-2-ND◆	2,500	316.00/M	STTH4R02U
	400	1A	SMB	497-3147-1-ND◆‡	.61	4.79	32.76	497-3147-2-ND	2,500	139.00/M	SMBYT01-400
	600	1A	SMB	497-3766-1-ND◆‡	.58	4.62	34.65	497-3766-2-ND◆	2,500	163.00/M	STTH1L06U
	600	1A	SMB	497-4406-1-ND◆‡	.55	4.40	33.00	497-4406-2-ND◆	2,500	155.00/M	STTH1R06U
	600	2A	SMB	497-3757-1-ND◆‡	.75	6.03	45.21	497-3757-2-ND◆	2,500	212.00/M	STTH2L06U
	600	2A	SMB	497-3776-1-ND◆‡	.75	6.03	45.21	—	—	—	STTH2R06U
	600	3A	SMB	497-3771-1-ND◆‡	.83	7.18	56.70	497-3771-2-ND◆	2,500	274.00/M	STTH3L06U
	600	3A	SMB	497-3767-1-ND◆‡	.88	7.60	60.00	497-3767-2-ND◆	2,500	290.00/M	STTH3R06U
	1,200	1A	SMB	497-2460-1-ND◆‡	.67	5.81	45.90	497-2460-2-ND◆	2,500	222.00/M	STTH112U
	1,200	2A	SMB	497-5762-1-ND◆‡	1.20	10.71	85.05	497-5762-2-ND◆	2,500	441.00/M	STTH212U
	200	3A	SMC	497-6085-1-ND◆‡	.64	5.10	38.28	497-6085-2-ND◆	2,500	180.00/M	STTH3R02S
	200	3A	SMC	497-5230-1-ND◆‡	.70	6.00	47.40	497-5230-2-ND◆	2,500	229.00/M	STTH302S
	200	4A	SMC	497-5766-1-ND◆‡	.91	7.83	61.80	497-5766-2-ND◆	2,500	299.00/M	STTH4R02S
	400	3A	SMC	497-3762-1-ND◆‡	.75	6.03	45.21	497-3762-2-ND◆	2,500	212.00/M	SMBYT03-400
	600	2A	SMC	497-4674-1-ND◆‡	.91	7.83	61.80	497-4674-2-ND◆	2,500	299.00/M	STTH2R06S
	600	3A	SMC	497-3764-1-ND◆‡	.97	8.40	66.30	497-3764-2-ND◆	2,500	320.00/M	STTH3L06S
	600	3A	SMC	497-3779-1-ND◆‡	.88	7.60	60.00	497-3779-2-ND◆	2,500	290.00/M	STTH3R06S
	1,000	3A	SMC	497-8053-1-ND◆‡	.83	7.18	56.70	497-8053-2-ND◆	2,500	274.00/M	STTH310S
	1,200	2A	SMC	497-4754-1-ND◆‡	1.33	11.93	94.77	497-4754-2-ND◆	2,500	491.00/M	STTH212S
8	200	8A	TO-220FPAC	497-5285-5-ND◆	.88	7.74	59.67	—	—	—	STTH802FP
	200	12A	TO-220FPAC	497-7579-5-ND◆	2.10	18.96	152.39	—	—	—	STTH1202FP
	200	15A	TO-220FPAC	497-5275-5-ND◆	1.47	13.02	102.90	—	—	—	STTH1502FP
	600	5A	TO-220FPAC	497-3747-5-ND◆	1.03	9.11	72.03	—	—	—	STTH5L06FP
	600	5A	TO-220FPAC	497-3249-5-ND◆	1.75	15.47	122.26	—	—	—	STTH5R06FP
	600	8A	TO-220FPAC	497-5414-5-ND◆	2.18	19.71	158.40	—	—	—	STTH8R06FP
	600	12A	TO-220FPAC	497-5407-5-ND◆	2.18	19.71	158.40	—	—	—	STTH12R06FP
	600	15A	TO-220FPAC	497-4404-5-ND◆	1.82	16.46	132.30	—	—	—	STTH15L06FP
	1,000	8A	TO-220FPAC	497-7609-5-ND◆	1.69	15.29	122.85	—	—	—	STTH810FP
	1,200	5A	TO-220FPAC	497-7598-5-ND◆	1.62	14.32	113.19	—	—	—	STTH512FP
	1,200	8A	TO-220FPAC	497-7610-5-ND◆	1.69	15.29	122.85	—	—	—	STTH812FP
	1,500	6A	TO-220FPAC	497-4201-5-ND◆	1.17	10.35	81.77	—	—	—	DTV1500SDFP
9	600	8A	Isolated TO-220AB	497-5413-5-ND◆	3.82	34.13	279.83	—	—	—	STTH806TTI

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fast Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
10	1,000	8A	Isolated TO-220	497-5163-5-ND◆	1.87	16.91	135.90	—	—	—	STTH810DI
	1,000	12A	Isolated TO-220	497-5149-5-ND◆	2.44	22.01	176.85	—	—	—	STTH1210DI
	1,200	8A	Isolated TO-220	497-5165-5-ND◆	1.96	17.70	142.20	—	—	—	STTH812DI
	200	12A	Isolated TO-220AC	497-7578-5-ND◆	2.70	24.42	196.20	—	—	—	STTH1202DI
	200	15A	Isolated TO-220AC	497-6086-5-ND◆	2.64	23.83	191.48	—	—	—	STTH1502DI
	200	20A	Isolated TO-220AC	497-5277-5-ND◆	2.41	21.76	174.83	—	—	—	STTH2002DI
	400	8A	Isolated TO-220AC	497-7612-5-ND◆	1.92	17.36	139.50	—	—	—	STTH8R04DI
	600	5A	Isolated TO-220AC	497-3247-5-ND◆	2.94	26.25	215.25	—	—	—	STTH506DTI
	600	8A	Isolated TO-220AC	497-3250-5-ND◆	3.23	28.88	236.78	—	—	—	STTH806DTI
	600	8A	Isolated TO-220AC	497-4419-5-ND◆	1.39	12.31	97.27	—	—	—	STTH8R06DIRG
	600	8A	Isolated TO-220AC	497-7608-5-ND◆	2.60	23.52	189.00	—	—	—	STTH806DIRG
	600	12A	Isolated TO-220AC	497-4403-5-ND◆	2.34	21.17	170.10	—	—	—	STTH12R06DIRG
11	200	4A	DPAK	497-5258-1-ND◆‡	.88	7.60	60.00	497-5258-2-ND◆	2,500	290.00/M	STTH4R02B-TR
	200	2 x 4A	DPAK	497-4753-1-ND◆‡	1.01	9.01	71.55	497-4753-2-ND◆	2,500	371.00/M	STTH802CB-TR
	200	8A	DPAK	497-3536-5-ND◆	.95	8.37	66.15	—	—	—	STTH1002CB
	200	8A	DPAK	497-5262-1-ND◆‡	.96	8.57	68.04	497-5262-2-ND◆	2,500	353.00/M	STTH802B-TR
	400	10A	DPAK	497-8047-1-ND◆‡	1.24	11.07	87.91	—	—	—	STTH10R04B-TR
	600	5A	DPAK	497-5261-1-ND◆‡	1.60	14.28	113.40	497-5261-2-ND◆	2,500	588.00/M	STTH506B-TR
	600	5A	DPAK	497-3248-1-ND‡	1.19	10.68	84.78	497-3248-2-ND	2,500	440.00/M	STTH5L06B-TR
	600	5A	DPAK	497-5412-1-ND◆‡	1.90	16.97	134.73	497-5412-2-ND◆	2,500	699.00/M	STTH5R06B-TR
	600	10A	DPAK	497-10108-1-ND◆‡ ***NEW!***	2.21	18.90	154.35	497-10108-2-ND◆ ***NEW!***	2,500	851.00/M	STTH10LCD06SB-TR
	1,200	5A	DPAK	497-5767-1-ND◆‡	1.52	13.57	107.73	497-5767-2-ND◆	2,500	559.00/M	STTH512B-TR
12	200	2 x 10A	D2PAK	497-7583-1-ND◆‡	1.14	10.20	81.00	497-7583-2-ND◆	1,000	450.00	STTH1602CG-TR
	200	8A	D2PAK	497-7606-1-ND◆‡	1.80	16.08	127.71	497-7606-2-ND◆	1,000	710.00	STTH802G-TR
	200	15A	D2PAK	497-3546-5-ND◆	1.29	11.41	90.16	—	—	—	STTH2002CG
	200	15A	D2PAK	497-3550-5-ND◆	3.97	35.45	290.69	—	—	—	STTH3002CG
	200	16A	D2PAK	497-8911-1-ND◆‡ ***NEW!***	1.14	10.20	81.00	497-8911-2-ND◆ ***NEW!***	1,000	450.00	STTH1002CG-TR
	200	20A	D2PAK	497-5761-1-ND◆‡	2.72	23.31	190.37	—	—	—	STTH2002G-TR
	200	2 x 15A	D2PAK	497-3761-1-ND◆‡	1.90	16.32	133.28	497-3761-2-ND◆	1,000	789.00	STTH2002CG-TR
	200	2 x 15A	D2PAK	497-3775-1-ND‡	2.24	19.23	157.05	—	—	—	STTH3002CG-TR
	200	30A	D2PAK	497-5319-1-ND◆‡	3.12	28.08	228.80	497-5319-2-ND◆	1,000	1456.00	STTH3002G-TR
	300	8A	D2PAK	497-4417-1-ND◆‡	1.37	12.24	97.20	497-4417-2-ND◆	1,000	540.00	STTH803G-TR
	300	2 x 10A	D2PAK	497-6591-1-ND◆‡	2.57	22.05	180.08	497-6591-2-ND	1,000	1066.00	STTH2003CG-TR
	300	2 x 15A	D2PAK	497-8051-1-ND◆‡	3.78	34.02	277.20	497-8051-2-ND◆	1,000	1764.00	STTH30R03CG-TR
	400	8A	D2PAK	497-7613-1-ND◆‡	1.88	16.80	133.38	497-7613-2-ND◆	1,000	741.00	STTH8R04G-TR
	400	10A	D2PAK	497-7575-1-ND◆‡	1.80	15.45	126.18	497-7575-2-ND◆	1,000	747.00	STTH10R04G-TR
	400	2 x 8A	D2PAK	497-8049-1-ND◆‡	2.28	19.53	159.50	497-8049-2-ND◆	1,000	944.00	STTH16R04CG-TR
	400	20A	D2PAK	497-7589-1-ND◆‡	1.80	15.45	126.18	497-7589-2-ND◆	1,000	747.00	STTH20R04G-TR
	400	30A	D2PAK	497-8052-1-ND◆‡	3.53	31.75	258.72	497-8052-2-ND◆	1,000	1646.00	STTH30R04G-TR
	600	2 x 5A	D2PAK	497-10107-1-ND◆‡ ***NEW!***	2.94	25.20	205.80	497-10107-2-ND◆ ***NEW!***	1,000	1218.00	STTH10LCD06CG-TR
	600	8A	D2PAK	497-3763-1-ND◆‡	1.44	12.85	102.06	497-3763-2-ND◆	1,000	567.00	STTH8L06G-TR
	600	8A	D2PAK	497-5263-1-ND◆‡	2.06	17.64	144.06	497-5263-2-ND◆	1,000	860.00	STTH806G-TR
	600	8A	D2PAK	497-5232-1-ND◆‡	1.29	11.53	91.53	497-5232-2-ND◆	1,000	509.00	STTH8R06G-TR
	600	10A	D2PAK	497-3817-5-ND	1.42	12.79	102.82	—	—	—	STTH16L06CG
	600	10A	D2PAK	497-10109-1-ND◆‡ ***NEW!***	2.68	23.01	187.92	497-10109-2-ND◆ ***NEW!***	1,000	1112.00	STTH10LCD06SG-TR
	600	2 x 10A	D2PAK	497-10110-1-ND◆‡ ***NEW!***	3.09	27.78	226.38	497-10110-2-ND◆ ***NEW!***	1,000	1441.00	STTH20LCD06CG-TR
	600	12A	D2PAK	497-5253-1-ND◆‡	2.32	19.86	162.19	497-5253-2-ND◆	1,000	960.00	STTH12R06G-TR
	600	2 x 20A	D2PAK	497-10317-1-ND◆‡ ***NEW!***	3.48	3.14	2.56	497-10317-2-ND◆ ***NEW!***	1,000	1624.00	STTH30L06CG-TR
	600	30A	D2PAK	497-6090-1-ND◆‡	3.47	31.19	254.10	497-6090-2-ND◆	1,000	1617.00	STTH30L06G-TR
	1,000	8A	D2PAK	497-8054-1-ND◆‡	1.92	16.47	134.51	497-8054-2-ND◆	1,000	796.00	STTH810G-TR
	1,000	12A	D2PAK	497-6093-1-ND◆‡	1.77	15.18	123.95	—	—	—	STTH1210G-TR
	1,200	8A	D2PAK	497-5264-1-ND◆‡	2.02	17.34	141.61	497-5264-2-ND◆	1,000	838.00	STTH812G-TR
	1,200	15A	D2PAK	497-6095-5-ND◆	2.85	25.48	208.90	—	—	—	STTH1512G
13	200	8A	I2PAK	497-3539-5-ND	.92	8.15	64.44	—	—	—	STTH1002CR
	200	10A	I2PAK	497-3801-5-ND◆	1.07	9.46	74.73	—	—	—	STTH1602CR
	200	15A	I2PAK	497-3774-5-ND	1.64	14.85	119.34	—	—	—	STTH3002CR
14	200	10A	TO-220FPAB	497-3542-5-ND◆	1.13	9.98	78.89	—	—	—	STTH1602CFP
	200	15A	TO-220FPAB	497-3545-5-ND◆	1.69	14.97	118.34	—	—	—	STTH2002CFP
	200	8A	TO-220FPAB	497-3537-5-ND◆	1.05	9.30	73.50	—	—	—	STTH1002CFP
	300	2 x 10A	TO-220FPAB	497-4407-5-ND◆	2.99	27.05	217.35	—	—	—	STTH2003CFP
	600	8A	TO-220FPAB	497-4405-5-ND◆	1.82	16.46	132.30	—	—	—	STTH16L06CFP
	600	3A	TO-220FPAB	497-4190-5-ND◆	1.95	17.64	141.75	—	—	—	DMV1500HFD
	600	3A	TO-220FPAB	497-4196-5-ND◆	1.51	13.33	105.35	—	—	—	DMV1500MFD
	600	6A	TO-220FPAB	497-4198-5-ND◆	1.54	13.64	107.80	—	—	—	DMV1500SDFD
	400	2 x 8A	TO-220FPAB	497-7584-5-ND◆	2.02	18.23	146.48	—	—	—	STTH16R04CFP
15	200	2 x 15A	Isolated TOP3	497-5278-5-ND◆	2.89	25.77	211.29	—	—	—	STTH3002CPI
	200	2 x 30A	Isolated TOP3	497-5283-5-ND◆	6.49	58.37	479.89	—	—	—	STTH6002CPI
	600	15A	Isolated TOP3	497-7582-5-ND◆	5.59	49.88	408.98	—	—	—	STH1506TPI
	600	30A	Isolated TOP3	497-4410-5-ND◆	6.97	62.73	515.78	—	—	—	STTH3006TPI
16	400	60A	DO-247	497-5159-5-ND◆	4.12	36.75	301.35	—	—	—	STTH6004W
	600	20A	DO-247	497-6082-5-ND◆	2.39	21.37	175.24	—	—	—	STTH2006W
	600	30A	DO-247	497-5280-5-ND◆	3.72	33.23	272.45	—	—	—	STTH3006W
	600	30A	DO-247	497-4411-5-ND◆	2.73	24.70	198.45	—	—	—	STTH30L06W
	600	30A	DO-247	497-4413-5-ND◆	1.87	16.91	135.90	—	—	—	STTH30R06W
	600	60A	DO-247	497-3799-5-ND◆	5.59	49.88	408.98	—	—	—	STTH60L06W
	1,000	30A	DO-247	497-5154-5-ND◆	3.01	26.90	220.58	—	—	—	STTH3010W
	1,000	60A	DO-247	497-5160-5-ND◆	5.29	47.25	387.45	—	—	—	STTH6010W
	1,200	15A	DO-247	497-5152-5-ND◆	2.77	25.00	200.93	—	—	—	STTH1512W
	1,200	30A	DO-247	497-5156-5-ND◆	3.36	30.03	246.21	—	—	—	STTH3012W
	1,200	60A	DO-247	497-5161-5-ND◆	5.44	48.58	398.32	—	—	—	STTH6012W
	200	30A	DO-247	497-7592-5-ND◆	3.56	31.78	260.56	—	—	—	STTH3002W

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
16	400	20A	DO-247	497-7590-5-ND◆	2.25	20.30	163.13	—	—	—	STTH20R04W
	400	30A	DO-247	497-7596-5-ND◆	3.29	29.40	241.08	—	—	—	STTH30R04W
	400	60A	DO-247	497-7602-5-ND◆	6.15	54.88	449.98	—	—	—	STTH60L04W
	400	60A	DO-247	497-7603-5-ND◆	5.59	49.88	408.98	—	—	—	STTH60R04W
	600	60A	DO-247	497-7599-5-ND◆	4.56	40.70	333.74	—	—	—	STTH6006W
	600	80A	DO-247	497-7605-5-ND◆	14.28	129.78	1103.13	—	—	—	STTH8006W
17	600	3A	TO-220FPAB F5	497-4197-5-ND◆	1.54	13.64	107.80	—	—	—	DMV1500MFD5
18	600	6A	TO-220FPAB FD6	497-4199-5-ND◆	1.54	13.64	107.80	—	—	—	DMV1500SDFD6

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

SCRs

Fig.	VDRM (V)	IT(RMS) (A)	IGT	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
1	200	.25	200µA	SOT-23	497-2527-1-ND◆‡	.83	.72	.57	497-2527-2-ND◆	3,000	274.00/M	P0102BL 5AA4
2	400	0.8	200mA	SOT-223	497-2523-1-ND◆‡	.85	.74	.59	497-2523-2-ND◆	1,000	310.00	P0102DN 5AA4
	600	0.8	200mA	SOT-223	497-4649-1-ND◆‡	.88	.76	.60	497-4649-2-ND◆	1,000	320.00	P0102MN 5AA4
	600	0.8	200mA	SOT-223	497-5775-1-ND◆‡	.75	.65	.51	497-5775-2-ND◆	1,000	272.00	X00602MN5BA4
	600	1.25	200mA	SOT-223	497-2532-1-ND◆‡	.96	.83	.66	497-2532-2-ND◆	1,000	349.00	X0202MN 5BA4
	800	1.25	200µA	SOT-223	497-7697-1-ND◆‡	1.16	1.04	.83	497-7697-2-ND◆	1,000	458.00	X0202NN 5BA4
3A	50	8	25mA	TO-220AB	497-3277-5-ND◆	1.47	1.31	1.03	—	—	—	TYN058RG
	200	8	15mA	TO-220AB	497-4483-5-ND◆	1.37	1.21	.96	—	—	—	TYN208RG
	200	25	40mA	TO-220AB	497-3279-5-ND	1.51	1.34	1.06	—	—	—	TYN225RG
	400	8	25mA	TO-220AB	497-4484-5-ND◆	1.44	1.28	1.01	—	—	—	TYN408GRG
	600	6	15mA	TO-220AB	497-4485-5-ND◆	1.10	.98	.78	—	—	—	TYN606RG
	600	8	200mA	TO-220AB	497-2551-5-ND◆	1.40	1.24	.98	—	—	—	TS820-600T
	600	10	15mA	TO-220AB	497-3280-5-ND◆	1.27	1.13	.89	—	—	—	TYN610RG
	600	12	15mA	TO-220AB	497-2418-5-ND◆	1.62	1.44	1.14	—	—	—	TYN612RG
	600	16	25mA	TO-220AB	497-2420-5-ND◆	1.14	1.02	.81	—	—	—	TYN616RG
	600	40	35mA	TO-220AB	497-2422-5-ND◆	2.28	2.06	1.66	—	—	—	TYN640RG
	800	4	15mA	TO-220AB	497-4488-5-ND◆	1.44	1.28	1.01	—	—	—	TYN804RG
	800	10	15mA	TO-220AB	497-4489-5-ND◆	1.44	1.28	1.01	—	—	—	TYN810RG
	800	12	15mA	TO-220AB	497-4490-5-ND◆	1.48	1.32	1.04	—	—	—	TYN812RG
	800	40	35mA	TO-220AB	497-3792-5-ND◆	3.38	3.02	2.48	—	—	—	TYN840RG
	600	8	200µA	TO-220AB	497-7688-5-ND◆	1.10	.98	.78	—	—	—	TYN608RG
3B	600	12	5mA	TO-220AB	497-4487-5-ND◆	1.48	1.32	1.04	—	—	—	TYN612MRG
4	100	0.8	1µA	TO-92	497-7419-1-ND◆‡	.50	.40	.31	497-7419-3-ND◆	2,000	141.05/M	P0130AA 2AL3
	400	0.8	.5µA	TO-92	497-7417-ND◆	.57	.45	.31	—	—	—	P0118DA 1AA3
	400	0.8	1mA	TO-92	497-3713-1-ND◆‡	.51	.41	.31	497-3713-2-ND◆	2,000	144.00/M	P0115DA 5AL3
	400	0.8	200µA	TO-92	497-7046-ND◆	.55	.43	.30	—	—	—	XL0840
	400	0.8	5mA	TO-92	497-6200-1-ND◆‡	.69	.56	.42	497-6200-2-ND◆	2,000	195.00/M	P0118DA 5AL3
	400	0.8	—	TO-92	497-7416-ND◆	.56	.44	.31	—	—	—	P0102DA 1AA3
	600	0.8	.5µA	TO-92	497-7418-1-ND◆‡	.52	.42	.32	497-7418-3-ND◆	2,000	147.25/M	P0118MA 2AL3
	600	0.8	200µA	TO-92	497-7696-ND◆	.56	.44	.31	—	—	—	X00602MA 1AA2
	600	0.8	30µA	TO-92	497-9067-1-ND◆‡ ***NEW!***	.58	.47	.35	497-9067-2-ND◆ ***NEW!***	2,000	163.00/M	X00619MA5AL2
	600	0.8	200mA	TO-92	497-3321-1-ND‡	.52	.42	.32	497-3321-2-ND	2,000	147.00/M	X00602MA 5AL2
	600	0.8	200mA	TO-92	497-4504-1-ND◆‡	.61	.48	.33	497-4504-3-ND◆§	2,000	138.60/M	X00602MA 2AL2
	600	0.8	200mA	TO-92	497-4281-ND◆	.37	.29	.20	—	—	—	P0102MA1AA3
	600	0.8	25mA	TO-92	497-4618-ND◆	.70	.59	.45	—	—	—	P0111MA 1AA3
	600	0.8	5mA	TO-92	497-4283-1-ND◆‡	.58	.46	.32	497-4283-2-ND◆	2,000	132.00/M	P0118MA 5AL3
	600	1.25	200mA	TO-92	497-2421-ND◆	.65	.55	.42	—	—	—	X020MA 1BA2
	600	1.25	200µA	TO-92	497-6810-1-ND◆‡	.83	.72	.57	497-6810-2-ND◆	2,000	274.05/M	X0202MA 2BL2
5	200	30	50mA	TOP3	497-4185-5-ND◆	4.92	4.40	3.61	—	—	—	BTW68-200RG
	200	50	80mA	TOP3	497-4186-5-ND◆	6.00	5.36	4.40	—	—	—	BTW69-200RG
	600	30	50mA	TOP3	497-3804-5-ND◆	6.41	5.77	4.74	—	—	—	BTW68-600RG
	600	50	80mA	TOP3	497-2435-5-ND◆	5.44	4.86	3.99	—	—	—	BTW69-600RG
	800	30	80mA	TOP3	497-3805-5-ND◆	6.51	5.86	4.82	—	—	—	BTW68-800RG
	800	50	80mA	TOP3	497-7194-5-ND◆	7.88	7.09	5.83	—	—	—	BTW69-800RG
	1,200	50	80mA	TOP3	497-2434-5-ND◆	7.88	7.09	5.83	—	—	—	BTW69-1200RG
6	600	4	200mA	DPAK	497-3276-1-ND‡	1.20	1.08	.86	497-3276-2-ND	2,500	441.00/M	TS420-600B-TR
	600	8	.2mA	DPAK	497-5234-1-ND◆‡	1.19	1.07	.85	497-5234-2-ND◆	2,500	440.00/M	TS820-600B-TR
	600	8	5mA	DPAK	497-6769-1-ND◆‡	1.68	1.50	1.20	497-6769-2-ND◆	2,500	617.00/M	TN805-600B-TR
	600	8	15mA	DPAK	497-6770-1-ND◆‡	1.58	1.42	1.13	497-6770-2-ND◆	2,500	582.00/M	TN815-600B-TR
	600	8	15mA	DPAK	497-6767-1-ND◆‡	1.32	1.18	.94	497-6767-2-ND◆	2,500	486.00/M	TN1215-600B-TR
	600	12	200µA	DPAK	497-6771-1-ND◆‡	1.69	1.52	1.21	497-6771-2-ND◆	2,500	623.00/M	TS1220-600B-TR
	600	15	15mA	DPAK	497-5171-1-ND◆‡	1.24	1.12	.89	497-5171-2-ND◆	2,500	458.00/M	TN1515-600B-TR
	600	12	5mA	DPAK	497-10112-1-ND◆‡ ***NEW!***	1.52	1.36	1.08	497-10112-2-ND◆ ***NEW!***	2,500	560.00/M	TN1205T-600B-TR
	800	8	2mA	DPAK	497-6159-1-ND◆‡	1.65	1.48	1.18	497-6159-2-ND◆	2,500	609.00/M	TN815-800B-TR
7	600	8	15mA	D2PAK	497-6768-5-ND◆	1.76	1.59	1.28	—	—	—	TN1215-600G
	600	12	200µA	D2PAK	497-8068-1-ND◆‡	1.98	1.71	1.39	497-8068-2-ND◆	1,000	822.00	TN1215-600G-TR
	800	25	40mA	D2PAK	497-6158-1-ND◆‡	3.31	2.84	2.32	497-6158-2-ND◆	1,000	1370.00	TN2540-800G-TR
	1,000	16	25mA	D2PAK	497-3740-1-ND◆‡	2.39	2.05	1.68	497-3740-2-ND◆	1,000	990.00	TN1625-1000G-TR
8	600	4	200mA	TO202-3	497-3322-ND◆	1.10	.98	.78	—	—	—	X0402MF 1AA2
	600	4	200mA	TO202-3	497-3322-5-ND◆	.63	.56	.43	—	—	—	X0402MF 0AA2
	600	4	.2mA	TO202-3	497-7698-ND◆	1.14	1.02	.80	—	—	—	X0403MF 1AA2
	800	4	200µA	TO202-3	497-6811-ND◆	.92	.82	.65	—	—	—	X0402NF 1AA2
9	0.1	0.005	200µA	TO-220AB	497-10311-5-ND◆ ***NEW!***	3.48	3.14	2.56	—	—	—	TS1220-600T
	400	8	25mA	TO-220AB	497-4480-5-ND◆	1.54	1.37	1.09	—	—	—	TXN408GRG
	600	12	15mA	TO-220AB	497-3561-5-ND	1.63	1.47	1.19	—	—	—	TXN612RG
	600	25	40mA	TO-220AB	497-6783-5-ND◆	1.61	1.43	1.13	—	—	—	TYN625RG
	1,000	12	15mA	TO-220AB	497-6782-5-ND◆	1.99	1.80	1.45	—	—	—	TYN1012RG
10	600	12	5mA	TO-220FPAB	497-4486-5-ND◆	1.10	.98	.78	—	—	—	TYN612MFP
11	600	50	80mA	RD91	497-6679-ND◆	7.35	6.57	5.39	—	—	—	BTW67-600
	1,000	50	80mA	RD91	497-7193-ND◆	6.56	5.91	4.86	—	—	—	BTW67-1000

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

Fig. 1 — SOT-23

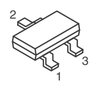

Fig. 2 — SOT-223

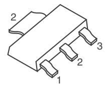

Fig. 3 — TO-220AB

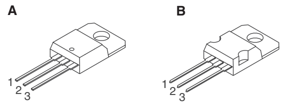

Fig. 4 — TO-92

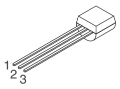

Fig. 5 — TOP3

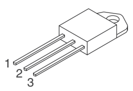

Fig. 6 — DPAK

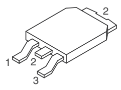

Fig. 7 — D2PAK

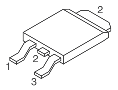

Fig. 8 — TO202-3

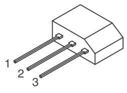

Fig. 9 — TO-220AB Insulated

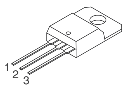

Fig. 10 — TO-220FPAB

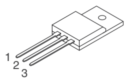

Fig. 11 — RD91

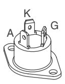

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 1 — TO-220AB

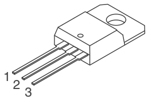

Fig. 2 — TO220AB Non-Insulated

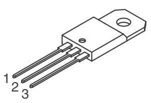

Fig. 3 — TOP3

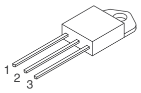

Fig. 4 — TOP3 Non-Insulated

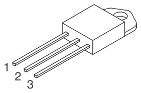

Fig. 5 — RD-91

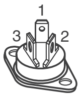

Fig. 6 — D^{2}PAK

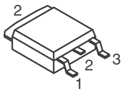

Fig. 7 — DPAK

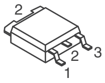

Fig. 8 — IPAK

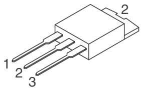

Fig. 9 — TO-92

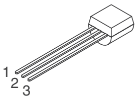

Fig. 10 — TO202-3

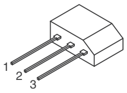

Fig. 11 — ISOWATT220AB

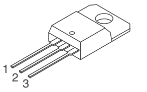

Fig. 12 — SOT-223

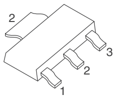

Fig.	VDRM (V)	IT(RMS) (A)	IGT (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
							1	10	100		Qty.	Pricing	
1	400	6	25	TO-220AB	Insulated	497-3383-5-ND◆†	1.32	1.18	.93	—	—	—	BTA06-400CRG
	400	6	50	TO-220AB	Insulated	497-6660-5-ND◆†	1.36	1.21	.96	—	—	—	BTA06-400TRG
	400	8	50	TO-220AB	Insulated	497-2391-5-ND◆†	1.32	1.18	.93	—	—	—	BTA08-400BRG
	400	10	50	TO-220AB	Insulated	497-2400-5-ND◆†	1.58	1.41	1.11	—	—	—	BTA10-400BRG
	400	10	25	TO-220AB	Insulated	497-6666-5-ND◆†	1.62	1.44	1.14	—	—	—	BTA10-400CRG
	400	16	50	TO-220AB	Insulated	497-2398-5-ND◆†	1.85	1.67	1.35	—	—	—	BTA16-400BRG
	600	4	5	TO-220AB	—	497-6752-5-ND◆†	.89	.80	.63	—	—	—	T405-600T
	600	6	5	TO-220AB	Insulated	497-3119-5-ND†	1.29	1.15	.91	—	—	—	BTA06-600TRG
	600	6	5	TO-220AB	Insulated	497-3386-5-ND◆†	1.29	1.15	.91	—	—	—	BTA06-600TWRG
	600	6	10	TO-220AB	Insulated	497-3118-5-ND◆†	1.29	1.15	.91	—	—	—	BTA06-600SWRG
	600	6	10	TO-220AB	Insulated	497-6662-5-ND◆†	1.36	1.21	.96	—	—	—	BTA06-600CRG
	600	6	10	TO-220AB	—	497-9014-5-ND◆† ***NEW!***	1.82	1.65	1.33	—	—	—	T610H-6T
	600	6	35	TO-220AB	Insulated	497-3385-5-ND◆†	1.29	1.15	.91	—	—	—	BTA06-600CWRG
	600	6	50	TO-220AB	Insulated	497-3117-5-ND◆†	1.32	1.18	.93	—	—	—	BTA06-600BWRG
	600	6	50	TO-220AB	Insulated	497-6661-5-ND◆†	1.32	1.18	.93	—	—	—	BTA06-600BRG
	600	8	5	TO-220AB	Insulated	497-3387-5-ND◆†	1.52	1.35	1.07	—	—	—	BTA08-600TWRG
	600	8	5	TO-220AB	Insulated	497-3748-5-ND◆†	1.41	1.26	.99	—	—	—	BTA08-600CWRG
	600	8	10	TO-220AB	Insulated	497-6665-5-ND◆†	1.41	1.26	.99	—	—	—	BTA08-600SWRG
	600	8	10	TO-220AB	—	497-9012-5-ND◆† ***NEW!***	1.92	1.74	1.40	—	—	—	T810H-6T
	600	8	10	TO-220AB	Insulated	497-10087-5-ND◆† ***NEW!***	1.73	1.56	1.26	—	—	—	T810T-6I
	600	8	20	TO-220AB	Insulated	497-10088-5-ND◆† ***NEW!***	1.73	1.56	1.26	—	—	—	T820T-6I
	600	8	25	TO-220AB	Insulated	497-10089-5-ND◆† ***NEW!***	1.73	1.56	1.26	—	—	—	T825T-6I
	600	8	35	TO-220AB	Insulated	497-6664-5-ND◆†	1.41	1.26	.99	—	—	—	BTA08-600CRG
	600	8	35	TO-220AB	Insulated	497-7644-5-ND◆†	1.69	1.53	1.23	—	—	—	T835H-6I
	600	8	35	TO-220AB	Insulated	497-10090-5-ND◆† ***NEW!***	1.73	1.56	1.26	—	—	—	T835T-6I
	600	8	50	TO-220AB	Insulated	497-2410-5-ND◆†	1.41	1.26	.99	—	—	—	BTA08-600BWRG
	600	8	50	TO-220AB	Insulated	497-6663-5-ND◆†	1.32	1.18	.93	—	—	—	BTA08-600BRG
	600	8	50	TO-220AB	Insulated	497-7647-5-ND◆†	1.69	1.53	1.23	—	—	—	T850H-6I
	600	10	10	TO-220AB	—	497-9016-5-ND◆† ***NEW!***	1.73	1.56	1.26	—	—	—	T1010H-6T
	600	10	35	TO-220AB	Insulated	497-7185-5-ND◆†	1.52	1.35	1.07	—	—	—	BTA10-600CRG
	600	10	35	TO-220AB	Insulated	497-7626-5-ND◆†	1.86	1.68	1.35	—	—	—	T1035H-6I
	600	10	50	TO-220AB	Insulated	497-2389-5-ND◆†	1.52	1.35	1.07	—	—	—	BTA10-600BRG
	600	10	50	TO-220AB	Insulated	497-3120-5-ND◆†	1.52	1.35	1.07	—	—	—	BTA10-600BWRG
	600	10	50	TO-220AB	Insulated	497-7628-5-ND◆†	1.86	1.68	1.35	—	—	—	T1050H-6I
	600	12	10	TO-220AB	Insulated	497-8905-5-ND◆† ***NEW!***	2.94	2.63	2.16	—	—	—	T1210T-6I
	600	12	20	TO-220AB	Insulated	497-8906-5-ND◆† ***NEW!***	3.09	2.76	2.27	—	—	—	T1220T-6I
	600	12	35	TO-220AB	Insulated	497-6667-5-ND◆†	1.59	1.41	1.12	—	—	—	BTA12-600CWRG
	600	12	25	TO-220AB	Insulated	497-6965-5-ND◆†	1.69	1.53	1.23	—	—	—	BTA12-600CRG
	600	12	25	TO-220AB	Insulated	497-8907-5-ND◆† ***NEW!***	2.94	2.63	2.16	—	—	—	T1225T-6I
	600	12	35	TO-220AB	Insulated	497-7630-5-ND◆†	2.05	1.86	1.49	—	—	—	T1235H-6I
	600	12	35	TO-220AB	Insulated	497-8908-5-ND◆† ***NEW!***	3.09	2.76	2.27	—	—	—	T1235T-6I
	600	12	50	TO-220AB	Insulated	497-3121-5-ND◆†	1.61	1.43	1.13	—	—	—	BTA12-600BWRG
	600	12	50	TO-220AB	Insulated	497-2388-5-ND◆†	1.61	1.43	1.13	—	—	—	BTA12-600BRG
	600	12	50	TO-220AB	Insulated	497-7632-5-ND◆†	2.05	1.86	1.49	—	—	—	T1250H-6I
	600	16	10	TO-220AB	Insulated	497-3389-5-ND◆†	1.60	1.45	1.16	—	—	—	BTA16-600SWRG
	600	16	25	TO-220AB	Insulated	497-3388-5-ND◆†	1.60	1.45	1.16	—	—	—	BTA16-600CRG
	600	16	35	TO-220AB	Insulated	497-2415-5-ND◆†	1.60	1.45	1.16	—	—	—	BTA16-600CWRG
	600	16	35	TO-220AB	Insulated	497-7634-5-ND◆†	2.54	2.30	1.85	—	—	—	T1635H-6I
	600	16	50	TO-220AB	Insulated	497-2397-5-ND◆†	1.73	1.56	1.26	—	—	—	BTA16-600BRG
	600	16	50	TO-220AB	Insulated	497-3122-5-ND◆†	1.60	1.45	1.16	—	—	—	BTA16-600BWRG
	600	16	50	TO-220AB	Insulated	497-7636-5-ND◆†	2.54	2.30	1.85	—	—	—	T1650H-6I
	600	20	35	TO-220AB	Insulated	497-3390-5-ND◆†	1.93	1.75	1.41	—	—	—	BTA20-600CWRG
	600	25	35	TO-220AB	Insulated	497-3124-5-ND◆†	2.14	1.93	1.56	—	—	—	BTA24-600CWRG
	600	25	50	TO-220AB	Insulated	497-3123-5-ND◆†	2.20	1.99	1.60	—	—	—	BTA24-600BWRG
	700	4	5	TO-220AB	Insulated	497-4153-5-ND◆†	1.09	.97	.76	—	—	—	BTA04-700TRG
	700	4	10	TO-220AB	Insulated	497-4152-5-ND◆†	1.54	1.37	1.09	—	—	—	BTA04-700SRG
	700	8	5	TO-220AB	Insulated	497-4157-5-ND◆†	1.23	1.09	.86	—	—	—	BTA08-700TWRG
	700	8	25	TO-220AB	Insulated	497-4156-5-ND◆†	1.47	1.31	1.03	—	—	—	BTA08-700CRG
	700	8	50	TO-220AB	Insulated	497-4155-5-ND◆†	1.54	1.37	1.09	—	—	—	BTA08-700BRG
	700	10	50	TO-220AB	Insulated	497-4158-5-ND◆†	1.58	1.40	1.11	—	—	—	BTA10-700BRG
	700	12	50	TO-220AB	Insulated	497-4161-5-ND◆†	1.66	1.47	1.16	—	—	—	BTA12-700BRG

◆ ***RoHS Compliant*** ‡ Cut Tape † Tube § Ammo Pack

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Triacs *(Cont.)*

Fig.	VDRM (V)	IT(RMS) (A)	IGT (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
							1	10	100		Qty.	Pricing	
1	700	16	35	TO-220AB	Insulated	497-4165-5-ND◆†	1.56	1.42	1.14	—	—	—	BTA16-700CWRG
	700	16	50	TO-220AB	Insulated	497-4163-5-ND◆†	1.56	1.42	1.14	—	—	—	BTA16-700BRG
	700	16	50	TO-220AB	Insulated	497-4164-5-ND◆†	1.56	1.42	1.14	—	—	—	BTA16-700BWRG
	700	20	35	TO-220AB	Insulated	497-4168-5-ND◆†	1.76	1.59	1.28	—	—	—	BTA20-700CWRG
	700	20	50	TO-220AB	Insulated	497-4167-5-ND◆†	1.76	1.59	1.28	—	—	—	BTA20-700BWRG
	800	6	10	TO-220AB	Insulated	497-10070-5-ND◆† ***NEW!***	1.99	1.80	1.45	—	—	—	ASCT6-8ST
	800	6	25	TO-220AB	Insulated	497-4154-5-ND◆†	1.37	1.22	.96	—	—	—	BTA06-800CRG
	800	6	50	TO-220AB	Insulated	497-7184-5-ND◆†	1.63	1.47	1.19	—	—	—	BTA06-800BWRG
	800	10	35	TO-220AB	Insulated	497-4160-5-ND◆†	1.76	1.59	1.28	—	—	—	BTA10-800CWRG
	800	10	50	TO-220AB	Insulated	497-2409-5-ND◆†	1.92	1.74	1.40	—	—	—	BTA10-800BWRG
	800	12	35	TO-220AB	Insulated	497-7186-5-ND◆†	1.54	1.37	1.09	—	—	—	BTA12-800CWRG
	800	12	50	TO-220AB	Insulated	497-4162-5-ND◆†	1.69	1.50	1.19	—	—	—	BTA12-800BWRG
	800	16	35	TO-220AB	Insulated	497-4166-5-ND◆†	1.76	1.59	1.28	—	—	—	BTA16-800CWRG
	800	16	50	TO-220AB	Insulated	497-2408-ND◆† ***NEW!***	2.38	2.15	1.73	—	—	—	BTA16-800BRG
	800	16	50	TO-220AB	Insulated	497-6668-5-ND◆†	1.85	1.67	1.35	—	—	—	BTA16-800BWRG
	800	25	35	TO-220AB	Insulated	497-4169-5-ND◆†	2.70	2.44	1.96	—	—	—	BTA24-800CWRG
	800	25	50	TO-220AB	Insulated	497-2402-5-ND◆†	2.70	2.44	1.96	—	—	—	BTA24-800BWRG
2	400	8	25	TO-220AB	Non-Insulated	497-6673-5-ND◆†	1.40	1.24	.98	—	—	—	BTB08-400CRG
	600	4	5	TO-220AB	Non-Insulated	497-4174-5-ND◆†	1.03	.92	.73	—	—	—	BTB04-600TRG
	600	4	10	TO-220AB	Non-Insulated	497-6671-ND◆	.80	.70	.54	—	—	—	BTB04-600SL
	600	4	10	TO-220AB	Non-Insulated	497-7641-5-ND◆†	1.10	.98	.78	—	—	—	T410-600T
	600	4	35	TO-220AB	—	497-7642-5-ND◆†	.96	.85	.67	—	—	—	T435-600T
	600	6	5	TO-220AB	Non-Insulated	497-3127-5-ND◆†	.99	.88	.70	—	—	—	BTB06-600TRG
	600	6	10	TO-220AB	Non-Insulated	497-4175-5-ND◆†	1.10	.98	.77	—	—	—	BTB06-600SWRG
	600	6	35	TO-220AB	Non-Insulated	497-6672-5-ND◆†	1.10	.98	.77	—	—	—	BTB06-600CRG
	600	6	50	TO-220AB	Non-Insulated	497-3391-5-ND†	1.19	1.06	.84	—	—	—	BTB06-600BWRG
	600	8	5	TO-220AB	Non-Insulated	497-7188-5-ND◆†	1.26	1.12	.89	—	—	—	BTB08-600TWRG
	600	8	50	TO-220AB	Non-Insulated	497-6674-5-ND◆†	1.27	1.13	.89	—	—	—	BTB08-600BRG
	600	8	35	TO-220AB	Non-Insulated	497-7187-5-ND◆†	1.29	1.15	.91	—	—	—	BTB08-600CWRG
	600	8	35	TO-220AB	Non-Insulated	497-7645-5-ND◆†	1.54	1.37	1.09	—	—	—	T835H-6T
	600	8	50	TO-220AB	Non-Insulated	497-2425-5-ND◆†	1.27	1.13	.89	—	—	—	BTB08-600BWRG
	600	8	50	TO-220AB	Non-Insulated	497-2440-5-ND◆†	1.58	1.41	1.11	—	—	—	BTB08-600SRG
	600	8	35	TO-220AB	Non-Insulated	497-6675-5-ND◆†	1.25	1.11	.88	—	—	—	BTB08-600CRG
	600	8	50	TO-220AB	Non-Insulated	497-7648-5-ND◆†	1.54	1.37	1.09	—	—	—	T850H-6T
	600	10	25	TO-220AB	Non-Insulated	497-3394-5-ND†	1.23	1.09	.86	—	—	—	BTB10-600CRG
	600	10	35	TO-220AB	Non-Insulated	497-7627-5-ND◆†	1.69	1.53	1.23	—	—	—	T1035H-6T
	600	10	50	TO-220AB	Non-Insulated	497-3393-5-ND†	1.03	.91	.72	—	—	—	BTB10-600BRG
	600	10	50	TO-220AB	Non-Insulated	497-6676-5-ND◆†	1.32	1.18	.93	—	—	—	BTB10-600BWRG
	600	10	50	TO-220AB	Non-Insulated	497-7629-5-ND◆†	1.69	1.53	1.23	—	—	—	T1050H-6T
	600	12	10	TO-220AB	Non-Insulated	497-3396-5-ND◆†	1.32	1.18	.93	—	—	—	BTB12-600SWRG
	600	12	25	TO-220AB	Non-Insulated	497-3395-5-ND†	1.32	1.18	.93	—	—	—	BTB12-600CRG
	600	12	35	TO-220AB	Non-Insulated	497-7631-5-ND◆†	1.89	1.71	1.38	—	—	—	T1235H-6T
	600	12	50	TO-220AB	Non-Insulated	497-2655-5-ND◆†	1.44	1.28	1.01	—	—	—	BTB12-600BWRG
	600	12	50	TO-220AB	Non-Insulated	497-7189-5-ND◆†	1.73	1.54	1.22	—	—	—	BTB12-600BRG
	600	12	50	TO-220AB	Non-Insulated	497-7633-5-ND◆†	1.89	1.71	1.38	—	—	—	T1250H-6T
	600	16	10	TO-220AB	Non-Insulated	497-6677-5-ND◆†	1.62	1.44	1.14	—	—	—	BTB16-600SWRG
	600	16	25	TO-220AB	Non-Insulated	497-3397-5-ND◆†	1.62	1.44	1.14	—	—	—	BTB16-600CRG
	600	16	35	TO-220AB	Non-Insulated	497-7190-5-ND◆†	1.79	1.62	1.31	—	—	—	BTB16-600CWRG
	600	16	35	TO-220AB	Non-Insulated	497-7635-5-ND◆†	2.38	2.15	1.73	—	—	—	T1635H-6T
	600	16	50	TO-220AB	Non-Insulated	497-2437-5-ND†	1.57	1.43	1.15	—	—	—	BTB16-600BRG
	600	16	50	TO-220AB	Non-Insulated	497-2439-5-ND◆†	1.62	1.44	1.14	—	—	—	BTB16-600BWRG
	600	16	50	TO-220AB	Non-Insulated	497-7637-5-ND◆†	2.38	2.15	1.73	—	—	—	T1650H-6T
	600	20	35	TO-220AB	Non-Insulated	497-7638-5-ND◆†	2.91	2.60	2.14	—	—	—	T2035H-6T
	600	20	50	TO-220AB	Non-Insulated	497-7639-5-ND◆†	2.91	2.60	2.14	—	—	—	T2050H-6T
	600	25	50	TO-220AB	Non-Insulated	497-2426-5-ND◆†	1.99	1.80	1.45	—	—	—	BTB24-600BWRG
	600	25	50	TO-220AB	Non-Insulated	497-2432-5-ND◆†	2.02	1.83	1.47	—	—	—	BTB24-600BRG
	700	8	50	TO-220AB	Non-Insulated	497-4176-5-ND◆†	1.29	1.15	.91	—	—	—	BTB08-700BWRG
	800	10	50	TO-220AB	Non-Insulated	497-4177-5-ND◆†	1.36	1.21	.96	—	—	—	BTB10-800BWRG
	800	10	35	TO-220AB	Non-Insulated	497-4178-5-ND◆†	1.05	.94	.74	—	—	—	BTB10-800CWRG
	800	12	35	TO-220AB	Non-Insulated	497-4180-5-ND◆†	1.54	1.37	1.09	—	—	—	BTB12-800CWRG
	800	16	10	TO-220AB	Non-Insulated	497-7191-5-ND◆†	1.47	1.31	1.03	—	—	—	BTB16-800SWRG
	800	16	35	TO-220AB	Non-Insulated	497-4182-5-ND◆†	1.58	1.41	1.11	—	—	—	BTB16-800CWRG
	800	16	50	TO-220AB	Non-Insulated	497-4181-5-ND◆†	1.69	1.50	1.19	—	—	—	BTB16-800BRG
	800	25	50	TO-220AB	Non-Insulated	497-4183-5-ND◆†	2.17	1.97	1.58	—	—	—	BTB24-800BWRG
	800	25	50	TO-220AB	Non-Insulated	497-2429-5-ND◆†	2.90	2.62	2.11	—	—	—	BTB24-800BRG
3	400	25	50	TOP3	Insulated	497-2438-5-ND◆†	4.06	3.63	2.98	—	—	—	BTA26-400BRG
	600	25	50	TOP3	Insulated	497-3126-ND	6.97	6.28	5.16	—	—	—	BTA26-600BW
	600	25	50	TOP3	Insulated	497-4170-5-ND◆†	4.41	3.94	3.23	—	—	—	BTA26-600BWRG
	600	25	50	TOP3	Insulated	497-2427-5-ND◆†	6.62	5.91	4.85	—	—	—	BTA26-600BRG
	600	40	50	TOP3	Insulated	497-2431-5-ND◆†	6.62	5.91	4.85	—	—	—	BTA41-600BRG
	700	40	50	TOP3	Insulated	497-6670-5-ND◆†	6.34	5.71	4.70	—	—	—	BTA41-700BRG
	800	25	35	TOP3	Insulated	497-4173-5-ND◆†	4.41	3.94	3.23	—	—	—	BTA26-800CWRG
	800	25	50	TOP3	Insulated	497-4171-5-ND◆†	4.41	3.94	3.23	—	—	—	BTA26-800BRG
	800	25	50	TOP3	Insulated	497-4172-5-ND◆†	4.41	3.94	3.23	—	—	—	BTA26-800BWRG
	800	40	50	TOP3	Insulated	497-2430-5-ND◆†	6.47	5.78	4.74	—	—	—	BTA41-800BRG
4	600	25	50	TOP3	Non-Insulated	497-3398-5-ND†	3.97	3.55	2.91	—	—	—	BTB26-600BRG
	600	40	50	TOP3	Non-Insulated	497-6678-5-ND◆†	7.88	7.09	5.83	—	—	—	BTB41-600BRG
	800	40	50	TOP3	Non-Insulated	497-7192-5-ND◆†	4.98	4.45	3.65	—	—	—	BTB41-800BRG
5	600	25	50	RD-91	Insulated	497-2414-5-ND◆†	6.62	5.91	4.85	—	—	—	BTA25-600B
	600	25	50	RD-91	Insulated	497-3125-5-ND◆†	6.56	5.91	4.86	—	—	—	BTA25-600BW
	600	40	50	RD-91	Insulated	497-2417-5-ND◆†	7.17	6.46	5.31	—	—	—	BTA40-600B
	700	25	50	RD-91	Non-Insulated	497-6669-ND◆	6.82	6.09	5.00	—	—	—	BTA25-700B
	800	40	50	RD-91	Insulated	497-2405-5-ND◆†	8.77	7.90	6.49	—	—	—	BTA40-800B

◆ ***RoHS Compliant*** ‡ Cut Tape † Tube § Ammo Pack *(Continued)*

Triacs *(Cont.)*

Fig.	VDRM (V)	IT(RMS) (A)	IGT (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
							1	10	100		Qty.	Pricing	
6	600	8	10	D2PAK	—	497-6597-1-ND◆‡	1.84	1.65	1.31	497-6597-2-ND◆	1,000	725.00	T810-600G-TR
	600	8	10	D2PAK	—	497-9013-1-ND◆‡ ***NEW!***	2.17	1.86	1.52	497-9013-2-ND◆ ***NEW!***	1,000	899.00	T810H-6G-TR
	600	8	35	D2PAK	—	497-8912-5-ND◆† ***NEW!***	1.63	1.47	1.19	—	—	—	T835-600G
	600	8	35	D2PAK	—	497-2507-1-ND◆‡	1.68	1.50	1.20	497-2507-2-ND◆	1,000	662.00	T835-600G-TR
	600	8	35	D2PAK	Non-Insulated	497-7643-1-ND◆‡	1.68	1.50	1.20	497-7643-2-ND◆	1,000	662.00	T835H-6G-TR
	600	8	50	D2PAK	Non-Insulated	497-7646-1-ND◆‡	1.68	1.50	1.20	497-7646-2-ND◆	1,000	662.00	T850H-6G-TR
	600	10	10	D2PAK	—	497-9017-1-ND◆‡ ***NEW!***	1.95	1.68	1.37	497-9017-2-ND◆ ***NEW!***	1,000	808.00	T1010H-6G-TR
	600	10	35	D2PAK	Non-Insulated	497-8056-1-ND◆‡	1.91	1.64	1.34	497-8056-2-ND◆	1,000	792.00	T1035H-6G-TR
	600	10	50	D2PAK	Non-Insulated	497-8057-1-ND◆‡	1.91	1.64	1.34	497-8057-2-ND◆	1,000	792.00	T1050H-6G-TR
	600	12	35	D2PAK	—	497-6592-1-ND◆‡	1.60	1.43	1.14	497-6592-2-ND◆	1,000	630.00	T1235-600G-TR
	600	12	35	D2PAK	Non-Insulated	497-8058-1-ND◆‡	1.98	1.71	1.39	497-8058-2-ND◆	1,000	822.00	T1235H-6G-TR
	600	12	50	D2PAK	Non-Insulated	497-8059-1-ND◆‡	2.13	1.83	1.50	497-8059-2-ND◆	1,000	883.00	T1250H-6G-TR
	600	16	35	D2PAK	—	497-6594-1-ND◆‡	2.73	2.35	1.92	497-6594-2-ND◆	1,000	1132.00	T1635-600G-TR
	600	16	35	D2PAK	—	497-2557-5-ND◆†	2.44	2.21	1.78	—	—	—	T1635-600G
	600	16	35	D2PAK	Non-Insulated	497-8060-1-ND◆‡	2.68	2.31	1.88	497-8060-2-ND◆	1,000	1112.00	T1635H-6G-TR
	600	16	50	D2PAK	Non-Insulated	497-8061-1-ND◆‡	2.68	2.31	1.88	497-8061-2-ND◆	1,000	1112.00	T1650H-6G-TR
	600	16	50	D2PAK	—	497-3739-1-ND‡	2.87	2.46	2.01	497-3739-2-ND	1,000	1188.00	T1650-600G-TR
	600	25	35	D2PAK	Non-Insulated	497-6595-1-ND◆‡	3.59	3.24	2.64	497-6595-2-ND◆	1,000	1676.00	T2535-600G-TR
	600	25	35	D2PAK	Non-Insulated	497-6751-5-ND◆†	3.35	3.00	2.46	—	—	—	T2535-600G
	700	16	35	D2PAK	—	497-4433-1-ND◆‡	1.76	1.58	1.25	497-4433-2-ND◆	1,000	693.00	T1635-700G-TR
	800	6	10	D2PAK	—	497-10417-1-ND◆‡ ***NEW!***	2.46	2.12	1.73	497-10417-2-ND◆ ***NEW!***	1,000	1021.00	ACST610-8GTR
	800	8	10	D2PAK	—	497-4438-1-ND◆‡	1.51	.94	.69	—	—	—	T810-800G-TR
	800	8	30	D2PAK	—	497-10416-1-ND◆‡ ***NEW!***	3.23	2.78	2.27	497-10416-2-ND◆ ***NEW!***	1,000	1340.00	ACST830-8GTR
	800	12	10	D2PAK	—	497-7037-1-ND◆‡	3.49	3.00	2.45	497-7037-2-ND◆	1,000	1447.00	T1210-800G-TR
	800	12	35	D2PAK	—	497-6593-1-ND◆‡	1.64	1.47	1.17	497-6593-2-ND◆	1,000	647.00	T1235-800G-TR
	800	16	10	D2PAK	—	497-10007-1-ND◆‡ ***NEW!***	2.76	2.37	1.94	497-10007-2-ND◆ ***NEW!***	1,000	1143.00	T1610-800G-TR
7	600	4	5	DPAK	—	497-2505-1-ND◆‡	1.36	1.22	.97	497-2505-2-ND◆	2,500	500.00/M	T405-600B-TR
	600	4	5	DPAK	—	497-2501-1-ND‡	1.04	.93	.74	497-2501-2-ND	2,500	382.00/M	T405Q-600B-TR
	600	4	10	DPAK	—	497-3269-1-ND◆‡	1.12	1.00	.80	497-3269-2-ND◆	2,500	412.00/M	T410-600B-TR
	600	4	35	DPAK	—	497-2513-1-ND◆‡	.96	.86	.69	497-2513-2-ND◆	2,500	353.00/M	T435-600B-TR
	600	4	35	DPAK	—	497-3798-5-ND◆†	.99	.88	.70	—	—	—	T435-600B
	600	8	10	DPAK	—	497-6596-1-ND◆‡	1.28	1.15	.91	497-6596-2-ND◆	2,500	470.00/M	T810-600B-TR
	600	8	35	DPAK	—	497-3270-1-ND◆‡	1.20	1.08	.86	497-3270-2-ND◆	2,500	441.00/M	T835-600B-TR
	700	4	5	DPAK	—	497-5265-1-ND◆‡	1.15	1.03	.82	497-5265-2-ND◆	2,500	424.00/M	T405-700B-TR
	800	4	5	DPAK	—	497-4434-1-ND‡	1.12	1.00	.80	497-4434-2-ND	2,500	412.00/M	T405-800B-TR
	800	4	10	DPAK	—	497-8062-1-ND◆	1.28	1.15	.91	497-8062-2-ND◆	2,500	470.00/M	T410-800B-TR
	800	4	35	DPAK	—	497-10418-1-ND◆‡ ***NEW!***	1.80	1.61	1.28	497-10418-2-ND◆ ***NEW!***	2,500	662.00/M	ACST435-8BTR
8	600	4	10	IPAK	Non-Insulated	497-6753-5-ND◆†	1.03	.92	.73	—	—	—	T410-600H
	600	4	35	IPAK	—	497-3795-5-ND◆†	1.07	.95	.75	—	—	—	T435-600H
	700	4	10	IPAK	—	497-4435-5-ND†	.85	.53	.39	—	—	—	T410-700H
9	600	0.8	5	TO-92	—	497-4681-1-ND◆‡	.69	.56	.42	497-4681-2-ND◆	2,000	195.00/M	Z00607MA 5BL2
	600	0.8	5	TO-92	—	497-7699-ND◆	.46	.39	.30	—	—	—	Z00607MA 1BA2
	600	1	3	TO-92	—	497-4682-1-ND◆‡	.69	.56	.42	497-4682-2-ND◆	2,000	195.00/M	Z0103MA 5AL2
	600	1	3	TO-92	—	497-3323-1-ND◆‡	.70	.60	.48	497-3323-3-ND◆§	2,000	229.10/M	Z0103MA 2AL2
	600	1	3	TO-92	—	497-3323-ND◆	.65	.55	.42	—	—	—	Z0103MA 1AA2
	600	1	5	TO-92	—	497-3822-ND◆	.84	.74	.57	—	—	—	Z0107MA 1AA2
	600	1	10	TO-92	—	497-2416-ND◆	.76	.67	.52	—	—	—	Z0109MA 1AA2
10	600	4	3	TO202-3	—	497-3324-ND◆	.91	.80	.62	—	—	—	Z0402MF 1AA2
	600	4	5	TO202-3	—	497-7700-ND◆	1.29	1.15	.91	—	—	—	Z0405MF 1AA2
	600	4	10	TO202-3	—	497-7701-ND◆	.91	.80	.62	—	—	—	Z0409MF 1AA2
	600	4	25	TO202-3	—	497-6815-ND◆	.97	.85	.66	—	—	—	Z0410MF 1AA2
	800	4	5	TO202-3	—	497-6814-ND◆	.92	.82	.65	—	—	—	Z0405NF 1AA2
	800	4	10	TO202-3	—	497-7702-ND◆	.76	.67	.52	—	—	—	Z0409NF 1AA2
11	800	6	30	ISOWATT 220AB	—	497-4437-5-ND◆†	1.69	1.50	1.19	—	—	—	T630-800W
	800	8	30	ISOWATT 220AB	—	497-6755-5-ND◆†	1.82	1.65	1.33	—	—	—	T830-800W
12	400	1	25	SOT-223	Non-Insulated	497-6813-1-ND◆‡	1.16	1.04	.83	497-6813-2-ND◆	1,000	458.00	Z0110DN 5AA4
	600	1	3	SOT-223	—	497-6630-1-ND◆‡	1.01	.88	.69	497-6630-2-ND◆	1,000	368.00	Z0103MN 5AA4
	600	1	5	SOT-223	—	497-6631-1-ND◆‡	.74	.64	.51	497-6631-2-ND◆	1,000	269.00	Z0107MN 5AA4
	600	1	10	SOT-223	—	497-6812-1-ND◆‡	1.06	.92	.73	497-6812-2-ND◆	1,000	387.00	Z0109MN 5AA4
	600	1	25	SOT-223	—	497-9044-1-ND◆‡ ***NEW!***	1.04	.93	.74	497-9044-2-ND◆ ***NEW!***	1,000	410.00	Z0110MN 5AA4
	800	1	5	SOT-223	—	497-4508-1-ND◆‡	.85	.74	.59	497-4508-2-ND◆	1,000	310.00	Z0107NN 5AA4
	800	1	10	SOT-223	—	497-4509-1-ND◆‡	.74	.64	.51	—	—	—	Z0109NN 5AA4

◆ ***RoHS Compliant*** ‡ Cut Tape † Tube § Ammo Pack

Alternistors

Fig.	VDRM (V)	IT(RMS) (A)	IGT (mA)	Package	Insulation	Digi-Key Part No.	Tube Price Each			STMicroelectronics Part No.
							1	10	100	
3	600	40	200	TOP3	Insulated	497-4441-5-ND	8.40	7.56	6.22	TPDV640RG
	800	40	200	TOP3	Insulated	497-4442-5-ND	9.45	8.51	7.00	TPDV840RG
	1200	25	150	TOP3	Insulated	497-3791-5-ND	8.53	7.68	6.32	TPDV1225RG
	1200	40	200	TOP3	Insulated	497-3794-5-ND	9.71	8.75	7.19	TPDV1240RG

Diacs

Fig. 1 — SOT-23

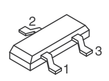

Pin 1 and 3 must be shorted together

Fig. 2 — MINIMELF

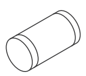

Fig. 3 — DO-35

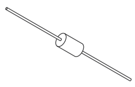

Fig.	V(BO) (V)		V(BO) Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		STMicroelectronics Part No.
	Min.	Max.				1	10	100	Qty.	Pricing	
1	28	36	±3	10	497-3148-1-ND	.66	5.28	39.60	3,000	186.00/M	SMDB3
2	28	36	±3	5	497-3275-1-ND	.64	5.10	38.28	2,500	180.00/M	TMMDB3
3	30	34	±2	9	497-3134-1-ND	.57	4.05	27.00	5,000	92.00/M	DB3TG
	28	36	3	5	497-3099-1-ND	.54	3.83	25.50	5,000	87.00/M	DB3
	35	45	3	5	497-7223-1-ND	.61	4.79	32.76	5,000	130.00/M	DB4

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

Fig. 1 — TO-92

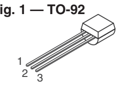

Fig. 2 — TO-220AB

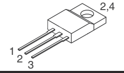

Fig. 3 — TO-247AE

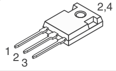

Fig. 4 — 8-SOIC

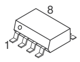

Fig. 5 — SOT-23

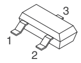

Fig. 6 — SOT-223

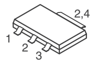

Fig. 7 — SOT-323, SOT-416

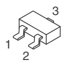

Fig. 8 — SC-89

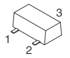

Fig. 9 — TSOP-6

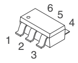

Fig. 10 — DPAK

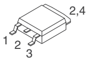

Fig. 11 — D2PAK

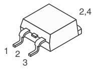

Fig. 12 — DPAK-3

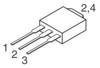

Fig. 13 — ChipFET

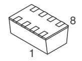

Fig. 14 — SOT-363

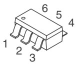

Fig. 15 — SOT-563

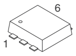

Fig. 16 — SOT-723

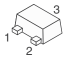

Fig.	VDS (V)	RDS (on) (Ω)	ID (A)	IDM (A)	PD (W)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
N-Channel											
TO-92 — RoHS Compliant											
1	60	5	.2	.5	.350	2N7000RLRAGOSCT-ND	.61	4.28	28.57	2,000	103.00/M
	60	5	.2	.5	.350	2N7000GOS-ND†	.54	3.83	25.14	—	—
	60	7.5	.15	1	.400	VN2222LLGOS-ND†	.57	4.80	36.00	—	—
	60	5	0.500	—	.350	BS170RLRAGOSCT-ND	.58	4.56	31.21	2,000	132.00/M
	60	5	0.500	—	.350	BS170GOS-ND†	.52	4.08	28.01	—	—
	200	6.4	.250	.5	.350	BS107ARL1GOSCT-ND	.58	4.56	31.20	2,000	132.00/M
	240	10	.200	.500	.350	VN2410LGOS-ND†	.95	8.45	66.77	—	—
TO-247AE — RoHS Compliant											
3	200	.075	32	128	180	MTW32N20EGOS-ND†	8.75	78.75	647.50	—	—
SOT-23 — RoHS Compliant											
5	20	.08	3.2	10	1.25	NTR4501NT1GOSCT-ND	.57	4.48	30.66	3,000	130.00/M
	20	1	.300	0.75	.225	MMBF0201NLT1GOSCT-ND	.52	4.07	27.84	3,000	118.00/M
	20	.090	.750	2	.400	MGSF1N02LT1GOSCT-ND	.54	4.31	32.34	3,000	152.00/M
	20	.085	2.8	5	1.25	MGSF2N02ELT1GOSCT-ND	.55	4.40	33.00	3,000	155.00/M
	30	.14	1.5	6	.73	NTR4503NT1GOSCT-ND	.57	4.48	30.66	3,000	130.00/M
	30	.100	1.6	2	.400	MGSF1N03LT1GOSCT-ND	.55	4.40	33.00	3,000	155.00/M
	30	1.0	.500	1.7	.83	NTR4003NT1GOSCT-ND	.62	4.24	19.96	3,000	59.00/M
	30	1.0	.500	1.7	.83	NTR4003NT3GOSCT-ND	.62	4.24	19.96	10,000	42.00/M
	50	3.5	.200	0.8	.225	BSS138LT1GOSCT-ND	.68	4.63	21.78	3,000	63.97/M
	60	1.6	.320	1.5	.300	2N7002KT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	60	3.0	.260	1.2	.300	2N7002ET1GOSCT-ND	.49	3.23	14.04	3,000	38.00/M
	60	5	0.5	0.8	.225	MMBF170LT1GOSCT-ND	.44	3.14	18.86	3,000	63.00/M
	60	7.5	.115	0.8	.225	2N7002LT1GOSCT-ND	.44	3.01	14.17	3,000	41.62/M
	100	6	0.17	0.68	.225	BSS123LT1GOSCT-ND	.68	4.63	21.78	3,000	63.97/M
SOT-223 — RoHS Compliant											
6	40	.090	6	—	1.1	NIF62514T1GOSCT-ND	2.10	18.00	147.00	1,000	870.00
	42	.2	2	—	1.1	NIF5002NT1GOSCT-ND	.97	8.36	66.00	1,000	352.00
	42	.053	14	—	1.25	NIF5003NT1GOSCT-ND	1.44	12.92	102.60	1,000	570.00
	60	.0175	2.0	6.0	2.1	NTF3055L175T1GOSCT-ND	.74	5.94	44.55	1,000	230.00
	60	.100	3	9	2.1	NTF3055-100T1GOSCT-ND	.72	6.24	49.28	1,000	263.00
	60	1.7	0.3	—	0.8	MMFT960T1GOSCT-ND	.89	7.65	60.36	1,000	322.00
SOT-323 — RoHS Compliant											
7	20	1	.300	.750	.150	MMBF2201NT1GOSCT-ND	.58	4.13	27.50	3,000	99.00/M
	30	1.5	.27	.20	.33	NTS4001NT1GOSCT-ND	.49	3.50	21.00	3,000	70.00/M
	60	1.6	.310	1.4	.280	2N7002WT1GOSCT-ND	.48	3.23	15.21	3,000	45.00/M
SOT-416 — RoHS Compliant											
7	20	1.5	.238	.714	.30	NTA4001NT1GOSCT-ND	.49	3.50	21.00	3,000	70.00/M
	20	.23	.915	1.3	.30	NTA4153NT1GOSCT-ND	.53	4.19	28.68	3,000	121.00/M
SC-89 — RoHS Compliant											
8	20	.23	.915	1.3	.30	NTE4153NT1GOSCT-ND	.55	3.86	25.76	3,000	93.00/M
TSOP-6 — RoHS Compliant											
9	20	.045	2.5	10	.5	NTGS3446T1GOSCT-ND	.57	4.45	30.42	3,000	129.00/M
	30	.0215	3.5	21	.5	NTGS4141NT1GOSCT-ND	.57	4.45	30.42	3,000	129.00/M
DPAK											
10	24	.005	80	200	75	NTD80N02T4OSCT-ND	.77	6.69	52.83	—	—
DPAK — RoHS Compliant											
10	24	.0037	12.5	—	92.5	NTD110N02RT4GOSCT-ND	1.25	11.22	89.10	2,500	462.00/M
	30	27	20	60	1.75	NTD20N03L27T4GOSCT-ND	1.06	9.12	72.00	2,500	348.00/M
	40	.0057	69	125	71	NTD5804NT4GOSCT-ND✔	.77	6.63	52.33	2,500	253.00/M
	40	.0076	51	85	47	NTD5805NT4GOSCT-ND✔	.74	6.37	50.32	2,500	243.00/M
	40	.0127	33	65	39	NTD5806NT4GOSCT-ND✔	.75	6.01	45.08	2,500	212.00/M
	52	.090	9	35	28.8	NID9N05CLT4GOSCT-ND	1.33	11.90	94.50	2,500	490.00/M
	60	.036	24	72	62.5	NTD24N06LT4GOSCT-ND	.99	8.85	70.25	2,500	364.00/M
	60	.039	20	60	60	NTD20N06LT4GOSCT-ND	1.19	10.69	84.86	2,500	440.00/M
	60	.094	12	45	48	NTD3055-094T4GOSCT-ND	.72	6.24	49.28	2,500	238.00/M
	60	.104	12	45	48	NTD3055L104T4GOSCT-ND	.72	6.24	49.28	2,500	238.00/M
	60	.104	12	45	48	NTD3055L104GOS-ND†	.66	5.75	44.35	—	—
	200	.460	6	18	50	MTD6N20ET4GOSCT-ND	1.71	15.30	121.50	2,500	630.00/M
D2PAK — RoHS Compliant											
11	60	.026	45	150	125	NTB45N06T4GOSCT-ND	1.90	16.28	132.99	800	684.00
	60	.028	45	150	125	NTB45N06LT4GOSCT-ND	1.71	15.30	121.50	800	597.60
	60	.100	15	45	48.4	NTB18N06LT4GOSCT-ND	1.22	10.93	86.78	800	427.20
	200	.068	30	90	214	NTB30N20T4GOSCT-ND	3.00	27.00	220.00	800	1200.00
DPAK-3 — RoHS Compliant											
12	60	.104	12	45	48	NTD3055L104-1GOS-ND†	.66	5.75	44.35	—	—
SOT-363 — RoHS Compliant											
14	25	.35	1.0	3.7	.63	NTJS4405NT1GOSCT-ND	.45	3.20	21.36	—	—
	20	.045	4.0	10	1.0	NTJS3157NT1GOSCT-ND	.47	3.67	25.10	3,000	106.00/M
SOT-723 — RoHS Compliant											
16	20	.20	.750	1.8	.45	NTK3134NT1GOSCT-ND	.58	4.13	27.50	4,000	99.00/M
Dual N-Channel — RoHS Compliant											
ChipFET											
13	20	.075	3.1	10	1.13	NTHD4508NT1GOSCT-ND	.74	5.91	44.34	3,000	208.00/M
	30	.14	2.9	10	1.13	NTHD4502NT1GOSCT-ND	.84	7.22	57.00	3,000	276.00/M
SOT-363											
14	20	.375	.63	1.2	.27	NTJD4401NT1GOSCT-ND	.47	3.71	25.35	3,000	107.00/M
	30	1.5	.25	.60	.272	NTJD4001NT1GOSCT-ND	.48	3.38	22.50	3,000	81.00/M
SOT-563											
15	20	.55	.54	1.5	.25	NTZD3154NT1GOSCT-ND	.44	3.42	23.40	4,000	99.00/M
P-Channel — RoHS Compliant											
TO-220AB											
2	30	.025	50	150	125	MTP50P03HDLGOS-ND†	4.60	41.06	336.73	—	—
	60	.196	2.4	42	2.4	NTP2955GOS-ND†	1.00	8.86	69.99	—	—
	500	6	2	6.0	75	MTP2P50EGOS-ND†	3.16	28.21	231.32	—	—
8-SOIC											
4	20	.075	5.6	30	2.5	MMSF3P02HDR2GOSCT-ND	1.44	12.92	102.60	2,500	532.00/M
SOT-23											
5	8	.052	3.7	11	.96	NTR2101PT1GOSCT-ND	.60	4.72	32.31	3,000	137.00/M
	20	.085	1.8	7.5	.73	NTR4101PT1GOSCT-ND	.57	4.48	30.66	3,000	130.00/M
	20	.28	1.0	2.67	.400	NTR1P02T1GOSCT-ND	.47	3.67	25.10	3,000	106.00/M
	20	.80	0.4	1.0	.225	NTR0202PLT1GOSCT-ND	.47	3.67	25.10	3,000	106.00/M
	30	.35	1.13	6.8	.400	NTR4502PT1GOSCT-ND	.57	4.48	30.66	3,000	130.00/M
	50	10	.130	.520	.225	BSS84LT1GOSCT-ND	.51	3.64	21.84	3,000	73.00/M
SOT-223											
6	60	.185	1.7	10.4	1.0	NTF2955T1GOSCT-ND	.97	8.41	66.42	1,000	354.00
SOT-323											
7	8	.10	1.4	3.0	.29	NTS2101PT1GOSCT-ND	.45	3.53	24.18	3,000	102.00/M
SOT-416											
7	20	.36	.760	1.0	.301	NTA4151PT1GOSCT-ND	.53	3.75	25.00	3,000	90.00/M
SC-89											
8	20	.36	.760	1.0	.301	NTE4151PT1GOSCT-ND	.48	3.38	22.50	3,000	81.00/M
TSOP-6											
9	20	.135	1.65	20	1	NTGS3441T1GOSCT-ND	.47	3.71	25.35	3,000	107.00/M
	20	.100	2.2	14	2	NTGS3443T1GOSCT-ND	.49	3.88	26.52	3,000	112.00/M
	30	.100	2.5	20	2.0	NTGS3455T1GOSCT-ND	.64	5.02	34.32	3,000	145.00/M
	30	.11	2.6	15	1.25	NTGS4111PT1GOSCT-ND	.57	4.45	30.42	3,000	129.00/M
DPAK											
10	30	.051	25	75	75	NTD25P03LGOS-ND†	1.10	9.74	77.00	—	—
	30	.051	25	75	75	NTD25P03LT4GOSCT-ND	1.19	10.69	84.86	2,500	440.00/M
	60	.130	15.5	50	65	NTD20P06LGOS-ND†	1.05	9.30	73.48	—	—
	60	.143	15.5	50	65	NTD20P06LT4GOSCT-ND	1.14	10.20	80.98	2,500	420.00/M
	60	.155	12	36	55	NTD2955GOS-ND†	.80	7.00	54.01	—	—
	60	.180	12	36	55	NTD2955T4GOSCT-ND	.84	7.22	57.02	2,500	276.00/M
	60	.450	5	18	40	MTD5P06VT4GOSCT-ND	1.07	9.23	72.83	2,500	352.00/M
D2PAK											
11	30	.025	50	150	125	MTB50P03HDLT4GOSCT-ND	3.90	35.10	286.00	800	1560.00
	60	.065	27.5	80	120	NTB25P06T4GOSCT-ND	2.00	17.14	139.97	800	720.00
	60	.080	30	105	125	MTB30P06VT4GOSCT-ND	3.45	29.57	241.45	800	1241.60
DPAK-3											
12	60	.155	12	36	55	NTD2955-1GOS-ND†	.80	7.00	54.01	—	—
ChipFET											
13	30	.075	3.3	30	1.3	NTHS4111PT1GOSCT-ND	.92	8.19	65.05	—	—
	20	.08	3.2	13	1.1	NTHD3101FT1GOSCT-ND	.65	5.19	38.95	3,000	183.00/M
SOT-363											
14	12	.06	2.7	8.0	.625	NTJS3151PT1GOSCT-ND	.44	3.42	23.40	3,000	99.00/M
	20	.047	3.3	10	1.0	NTJS4151PT1GOSCT-ND	.47	3.71	25.35	3,000	107.00/M
SOT-563											
15	20	.15	.86	4	.17	NTZS3151PT1GOSCT-ND	.44	3.42	23.40	4,000	99.00/M
SOT-723											
16	20	.38	.660	1.2	.450	NTK3139PT1GOSCT-ND	.58	4.13	27.50	4,000	99.00/M
Dual P-Channel — RoHS Compliant											
ChipFET											
13	20	.155	2.1	7.0	1.1	NTHD4401PT3GOSCT-ND	.68	5.88	46.39	—	—
SOT-363											
14	20	.26	.88	3.0	.272	NTJD4152PT1GOSCT-ND	.49	3.88	26.52	3,000	112.00/M
SOT-563											
15	20	0.9	.43	.75	.25	NTZD3152PT1GOSCT-ND	.44	3.42	23.40	4,000	99.00/M
Dual N/P Channel Complementary — RoHS Compliant											
ChipFET											
13	20	.08/.08	2.9/3.2	12/13	1.1	NTHD3100CT1GOSCT-ND	.68	5.89	46.50	3,000	225.00/M
SOT-363											
14	8	.130	1.3	—	.40	NTJD1155LT1GOSCT-ND	.54	4.28	29.25	3,000	124.00/M
	20/8	.375/.30	.63/.775	1.2	.27	NTJD4105CT1GOSCT-ND	.47	3.71	25.35	3,000	107.00/M
SOT-563											
15	20	.55/.9	.54/.43	1.5/.75	.25	NTZD3155CT1GOSCT-ND	.44	3.42	23.40	4,000	99.00/M

✔ **NEW!** § For Tape and Reel part number, change CT-ND to TR-ND † Bulk

JFET

RoHS COMPLIANT

Fig.	VDS (V)	VGS (V)	IGF (mA)	PD (mW)	V(BR) GSS	Digi-Key Part No.	Pricing		
							1	10	100
JFET Depletion Mode - TO-92									
1	25	25	10	350	-25	J310GOS-ND	.52	4.06	27.90

Fig.	IDSS Min. (A)	VGS (off) Max. (V)	VGSS (V)	PD (W)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing§
						1	10	100	3,000
N-Channel - SOT-23									
5	.050	-10	30	.225	MMBF4391LT1GOSCT-ND	.52	4.12	28.22	119.00/M
	.025	5	30	.225	MMBF4392LT1GOSCT-ND	.52	4.12	28.22	119.00/M
	.005	3	30	.225	MMBF4393LT1GOSCT-ND	.52	4.12	28.22	119.00/M
	.012	4	25	.225	MMBFJ309LT1GOSCT-ND	.52	4.12	28.22	119.00/M
	.024	6.5	25	.225	MMBFJ310LT1GOSCT-ND	.52	4.12	28.22	119.00/M
	.024	6	25	.225	MMBFU310LT1GOSCT-ND	.52	4.12	28.22	119.00/M
P-Channel - SOT-23									
5	.0015	2.5	30	.225	MMBFJ177LT1GOSCT-ND	.52	4.12	28.22	119.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND

ON Semiconductor™ Transistors

ON Semiconductor offers one of the broadest selections of small signal transistors in the industry. Supplying the devices required to complete design circuitry quickly, efficiently, and cost effectively. The company continues to introduce its small signal transistors in all the latest packages required by today's newest applications.

Fig. 1 — TO-3

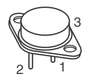

Fig. 2 — TO-92

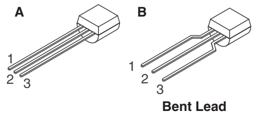

Fig. 3 — TO-218AC/ TO-218

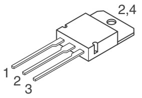

Fig. 4 — TO-220/ TO-220AB/ FullPack

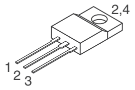

Fig. 5 — TO-225/ TO-225AA

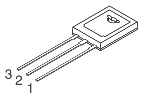

Fig. 6 — TO-247

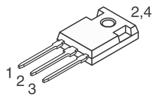

Fig. 7 — TO-264/ TO-3PBL

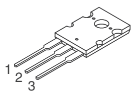

Fig. 8 — SOT-23

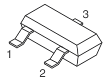

Fig. 9 — SOT-223

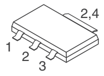

Fig. 10 — SOT-323

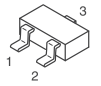

Fig. 11 — SOT-363/ SC-88/SC74-6/ TSOP-6

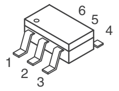

Fig. 12 — SC-59

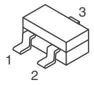

Fig. 13 — SC-75/ SOT-416

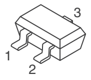

Fig. 14 — DPAK

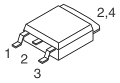

Fig. 15 — DPAK-3

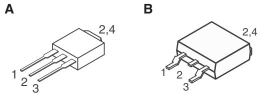

Fig. 16 — D2PAK

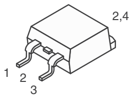

Fig. 17 — 3-WDFN

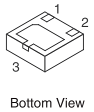

Fig. 18 — 1206A ChipFET™

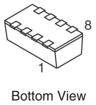

Fig. 19 — SOT-553

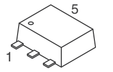

Fig. 20 — SOT-563

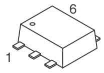

Fig. 21 — SOT-963

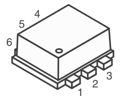

Fig. 22 — SOT-1123

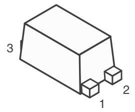

Fig. 23 — SOT-723 ***NEW!***

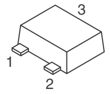

Fig. 24 — 6-WDFN ***NEW!***

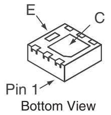

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
NPN											
TO-3 — RoHS Compliant											
1	40	50	30	5	—	2N3771GOS-ND	3.64	32.50	266.50	—	—
	60	60	25	35	200	2N5885GOS-ND	3.64	32.50	266.50	—	—
	60	60	30	40	200	2N5302GOS-ND	3.64	32.50	266.50	—	—
	60	60	30	200	—	MJ11012GOS-ND	4.38	39.12	320.81	—	—
	60	100	15	20	115	2N3055GOS-ND	2.17	19.60	157.50	—	—
	60	100	15	5	—	2N3055AGOS-ND	2.64	23.80	191.25	—	—
	80	80	50	15	300	2N5686GOS-ND	12.76	116.00	986.00	—	—
	80	80	25	35	200	2N5886GOS-ND	3.64	32.50	266.50	—	—
	80	80	60	5	—	MJ14002GOS-ND	12.76	116.00	986.00	—	—
	90	90	20	20	140	2N5038GOS-ND	9.00	81.00	666.00	—	—
	90	100	30	25	—	MJ802GOS-ND	3.64	32.50	266.50	—	—
	100	100	20	750	160	2N6284GOS-ND	4.37	39.05	320.21	—	—
	120	120	30	1K	200	MJ11016GOS-ND	4.03	36.02	295.35	—	—
	120	120	50	1K	300	MJ11032GOS-ND	8.94	80.44	661.38	—	—
	120	200	15	—	180	MJ15015GOS-ND	2.64	23.80	191.25	—	—
	140	140	15	25	—	MJ15001GOS-ND	4.03	36.00	295.20	—	—
	140	140	20	25	250	MJ15003GOS-ND	3.92	35.00	287.00	—	—
	140	160	10	7.5	—	2N3442GOS-ND	2.64	23.80	191.25	—	—
	140	160	16	15	150	2N3773GOS-ND	3.64	32.50	266.50	—	—
	200	350	16	15	250	MJ15022GOS-ND	4.56	40.75	334.15	—	—
	250	250	15	100	—	MJ11022GOS-ND	7.20	64.80	532.80	—	—
	250	400	16	15	250	MJ15024GOS-ND	4.56	40.75	334.15	—	—
	250	400	16	25	250	MJ21194GOS-ND	4.56	40.75	334.15	—	—
	250	400	16	25	250	MJ21196GOS-ND	3.92	35.00	287.00	—	—
TO-92 — 1.0mm Pitch — RoHS Compliant											
2A	25	30	0.2	120	.625	2N4124GOS-ND	.41	2.80	13.08	—	—
	25	30	—	60	350	MPSH10GOS-ND	.64	4.36	20.34	—	—
	30	30	0.5	5K	.625	MPSA13GOS-ND	.50	3.39	15.80	—	—
	30	30	0.5	10K	.625	MPSA14GOS-ND	.50	3.39	15.80	—	—
	30	60	0.6	50	.625	MPS2222GOS-ND	.42	2.87	13.38	—	—
	30	35	.05	350	.625	2N5088GOS-ND	.49	3.35	15.65	—	—
	40	50	1	50	.001	MPSW01AGOS-ND	.40	3.12	21.40	—	—
	40	60	2	75	.625	MPS650GOS-ND	.50	3.56	23.38	—	—
	40	60	0.6	20	.625	2N4401GOS-ND	.38	2.58	12.02	—	—
	40	60	0.2	40	.625	2N3904GOS-ND	.51	3.38	14.69	—	—
	40	75	0.6	35	.625	MPS2222AGOS-ND	.42	2.87	13.38	—	—
	40	75	0.6	50	.625	P2N2222AGOS-ND	.53	3.60	16.79	—	—
	40	75	0.6	35	.625	PN2222AGOS-ND	.42	2.88	13.45	—	—
	40	40	0.5	20K	.625	2N6426GOS-ND	.47	3.35	19.75	—	—
	40	40	0.5	10K	.625	2N6427GOS-ND	.47	3.35	19.75	—	—
	45	50	0.1	450	.625	BC547CGOS-ND	.41	2.80	13.08	—	—
	45	50	0.1	450	.625	BC550CGOS-ND	.41	2.80	13.08	—	—
	50	60	1	4K	1	MPSW45AGOS-ND	.40	3.12	21.40	—	—
	60	60	0.5	100	.625	MPSA05GOS-ND	.49	3.37	15.72	—	—
2A	60	60	0.5	10K	.625	MPSA27GOS-ND	.50	3.39	15.80	—	—
	60	80	2	40	.625	MPS651GOS-ND	.50	3.56	23.38	—	—
	80	80	0.5	75	.625	MPS8099GOS-ND	.47	3.35	19.75	—	—
	80	80	0.5	100	.625	MPSA06GOS-ND	.45	3.09	14.44	—	—
	100	100	0.5	10K	.625	MPSA29GOS-ND	.50	3.39	15.80	—	—
	140	160	0.6	60	.625	2N5550GOS-ND	.42	2.86	19.04	—	—
	160	180	0.6	80	.625	2N5551GOS-ND	.49	3.35	15.65	—	—
	300	300	0.5	25	.625	MPSA42GOS-ND	.53	3.60	16.79	—	—
	300	300	0.5	25	1	MPSW42GOS-ND	.57	4.01	26.33	—	—
	400	500	0.3	40	.625	MPSA44GOS-ND	.61	5.37	41.44	—	—
	45	50	0.8	100	.625	BC337GOS-ND	.53	3.60	16.79	—	—
	45	50	0.1	240	.625	BC547BGOS-ND	.41	2.80	13.08	—	—
TO-92 - 2.5mm Pitch — RoHS Compliant											
2B	25	25	0.1	100	.625	MPS5172RLRMGOSCT-ND‡	.60	4.08	19.18	2,000	56.36/M
	25	30	0.2	60	.625	MPS4124RLRAGOSCT-ND	.60	4.08	19.18	2,000	56.00/M
	30	30	0.5	10K	.625	MPSA14RLRAGOSCT-ND	.56	3.84	18.06	—	—
	40	60	0.6	40	.625	2N4401RLRAGOSCT-ND	.43	2.92	13.74	2,000	40.35/M
	40	60	0.2	70	.625	2N3904RLRAGOSCT-ND	.51	3.38	14.69	2,000	39.67/M
	40	60	0.2	100	.625	2N3904RL1GOSCT-ND	.51	3.38	14.69	2,000	40.00/M
	40	60	0.6	20	.625	2N4401RLRPGOSCT-ND‡	.43	2.92	13.74	2,000	40.35/M
	40	60	0.2	40	.625	2N3904RLRMGOSCT-ND‡	.51	3.38	14.69	2,000	39.67/M
	40	60	0.2	40	.625	2N3904RLRPGOSCT-ND‡	.51	3.38	14.69	2,000	39.67/M
	40	75	0.6	35	.625	MPS2222ARLGOSCT-ND	.43	2.89	13.61	2,000	47.00/M
	40	75	0.6	35	.625	MPS2222ARLRAGOSCT-ND	.50	3.40	15.98	2,000	47.00/M
	40	75	0.6	50	.625	PN2222ARLRAGOSCT-ND	.48	3.27	15.38	2,000	45.00/M
	45	45	0.2	500	.625	MPSA18RLRAGOSCT-ND	.56	3.84	18.06	2,000	53.00/M
	50	60	1	4K	1	MPSW45ARLRAGOSCT-ND	.44	3.48	23.84	2,000	101.00/M
	60	60	0.5	—	.625	MPSA05RLRAGOSCT-ND	.56	3.82	17.97	2,000	53.00/M
	60	80	2	75	.625	MPS651RLRAGOSCT-ND	.56	3.99	26.57	2,000	96.00/M
	60	60	0.5	10K	.625	MPSA27RLRAGOSCT-ND	.56	3.84	18.06	2,000	53.00/M
	80	80	0.5	100	.625	MPSA06RLRMGOSCT-ND	.52	3.51	16.50	2,000	48.48/M
	80	80	0.5	100	.625	MPS8099RLRAGOSCT-ND	.52	3.73	22.36	2,000	75.00/M
	80	80	0.5	100	.625	MPSA06RLRAGOSCT-ND	.52	3.51	16.50	2,000	48.00/M
	100	100	0.5	10K	.625	MPSA29RLRPGOSCT-ND‡	.56	3.84	18.06	2,000	53.04/M
	160	180	0.6	80	.625	2N5551RLRAGOSCT-ND	.56	3.80	17.89	2,000	52.55/M
	300	300	0.5	25	1	MPSW42RLRAGOSCT-ND	.63	4.49	29.92	2,000	108.00/M
	300	300	0.5	25	.625	MPSA42RLRAGOSCT-ND	.60	4.08	19.18	2,000	56.00/M
	400	500	0.3	40	.625	MPSA44RLRAGOSCT-ND	.68	5.83	46.04	2,000	223.00/M
TO-218AC — RoHS Compliant											
3	100	100	10	1K	3.5	TIP142GOS-ND	2.12	19.13	153.70	—	—
TO-218 — RoHS Compliant											
3	60	60	10	500	—	TIP140GOS-ND	2.12	19.13	153.70	—	—
	60	100	15	5	—	TIP3055GOS-ND	1.88	16.99	136.52	—	—
	100	100	10	20	—	TIP33CGOS-ND	1.93	17.39	139.73	—	—
	100	100	20	100	—	MJH6284GOS-ND	4.66	41.58	340.93	—	—
	100	100	25	15	—	TIP35CGOS-ND	2.89	26.08	209.59	—	—
	160	160	16	8	—	MJE4343GOS-ND	3.83	34.16	280.07	—	—
	200	200	15	100	—	MJH11020GOS-ND	4.37	39.02	319.95	—	—
	250	250	15	400	150	MJH11022GOS-ND	4.37	39.02	319.95	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.

‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
TO-220 — RoHS Compliant											
4	100	100	5	1K	2	MJF122GOS-ND	1.04	9.24	73.03	—	—
TO-220AB — RoHS Compliant											
4	40	40	3	25	2	TIP31GOS-ND	.65	5.65	43.59	—	—
	60	60	2	1K	2	TIP110GOS-ND	.94	8.26	63.71	—	—
	60	60	5	1K	2	TIP120GOS-ND	.79	6.93	53.48	—	—
	60	—	10	60	2	D44H8GOS-ND	1.22	10.78	85.20	—	—
	60	60	3	10	2	TIP31AGOS-ND	.62	5.44	41.93	—	—
	60	60	8	200	2	TIP100GOS-ND	1.00	8.86	69.99	—	—
	60	60	8	1K	75	2N6043GOS-ND	.99	8.69	67.07	—	—
	60	60	10	100	2	2N6387GOS-ND	1.09	9.63	76.07	—	—
	60	70	10	20	75	MJE3055TGOS-ND	1.04	9.24	73.03	—	—
	60	70	15	5	1.8	2N6487GOS-ND	1.22	10.78	85.20	—	—
	70	80	7	30	40	2N6292GOS-ND	1.09	9.63	76.07	—	—
	80	80	1	15	2	TIP29BGOS-ND	.68	5.98	46.10	—	—
	80	80	8	200	2	TIP101GOS-ND	1.00	8.86	69.99	—	—
	80	—	10	60	2	D44H11GOS-ND	1.22	10.78	85.20	—	—
	80	80	10	1K	2	2N6388GOS-ND	1.04	9.24	73.03	—	—
	80	80	5	1K	2	TIP121GOS-ND	.79	6.93	53.48	—	—
	80	80	3	25	2	TIP31BGOS-ND	.62	5.44	41.93	—	—
	80	90	15	20	1.8	2N6488GOS-ND	1.16	10.24	80.94	—	—
	80	—	15	35	83	D44VH10GOS-ND	1.22	10.78	85.20	—	—
	100	100	1	15	2	TIP29CGOS-ND	.68	5.98	46.10	—	—
	100	100	8	1K	75	2N6045GOS-ND	.99	8.69	67.07	—	—
	100	100	5	1K	2	TIP122GOS-ND	.74	6.46	49.80	—	—
	100	100	8	1K	2	TIP102GOS-ND	1.00	8.90	70.31	—	—
	100	100	3	25	2	TIP31CGOS-ND	.71	5.96	44.71	—	—
	100	100	6	30	2	TIP41CGOS-ND	.87	7.61	58.70	—	—
	100	100	8	750	—	BDX53CGOS-ND	1.13	10.01	79.12	—	—
	100	100	10	750	—	BDX33CGOS-ND	1.13	10.01	79.12	—	—
	100	100	15	250	—	BDW42GOS-ND	1.13	10.01	79.12	—	—
	150	150	8	40	—	MJE15028GOS-ND	1.39	12.32	97.37	—	—
	150	150	8	20	2	MJE15030GOS-ND	1.53	13.58	107.30	—	—
	200	400	7	—	60	BU406GOS-ND	1.61	14.25	112.59	—	—
	250	250	8	70	8	MJE15032GOS-ND	1.48	13.09	103.46	—	—
	250	350	1	10	—	TIP47GOS-ND	.97	8.48	65.40	—	—
	300	400	1	10	—	TIP48GOS-ND	.97	8.48	65.40	—	—
	350	350	4	100	2	MJE15034GOS-ND	1.47	13.02	102.90	—	—
	400	—	4	10	2	MJE13005GOS-ND	.98	8.61	66.40	—	—
	400	—	8	8	80	MJE13007GOS-ND	1.13	10.01	79.12	—	—
	400	—	12	8	2	MJE13009GOS-ND	1.43	12.71	100.42	—	—
	400	—	8	50	2	MJE5742GOS-ND	1.95	17.63	141.69	—	—
	400	—	5	10	75	BUL45GOS-ND	1.17	10.40	82.16	—	—
	400	700	5	10	—	BUL45D2GOS-ND	1.43	12.71	100.42	—	—
	400	500	1	30	2	TIP50GOS-ND	.97	8.48	65.40	—	—
	450	—	2	30	50	BUX85GOS-ND	.96	8.47	66.94	—	—
	450	—	5	6	75	MJE18004GOS-ND	1.22	10.78	85.20	—	—
	450	—	8	5	1	MJE18008GOS-ND	1.69	15.30	122.96	—	—
TO-220FP — RoHS Compliant											
4	80	—	10	40	2	MJF44H11GOS-ND	1.81	16.34	131.34	—	—
	100	100	10	100	2	MJF6388GOS-ND	1.81	16.34	131.34	—	—
	150	150	8	2	2	MJF15030GOS-ND	1.81	16.34	131.34	—	—
TO-225 — RoHS Compliant											
5	80	80	4	750	—	MJE803GOS-ND	.70	6.09	46.95	—	—
	100	100	2	500	1.5	MJE270GOS-ND	.67	5.87	45.28	—	—
	200	200	0.5	30	—	MJE344GOS-ND	.65	5.65	43.59	—	—
	350	450	0.3	15	—	MJE3439GOS-ND	.65	5.65	43.59	—	—
	400	—	1.5	5	1.4	MJE13003GOS-ND	.58	4.92	36.90	—	—
TO-225AA — RoHS Compliant											
5	25	40	5	70	1.5	MJE200GOS-ND	.71	5.96	44.71	—	—
	40	40	1	40	30	2N4921GOS-ND	.74	6.43	49.63	—	—
	40	40	4	10	—	2N5190GOS-ND	.89	7.82	60.36	—	—
	40	60	3	12	12.5	MJE180GOS-ND	.71	5.96	44.71	—	—
	45	45	1.5	25	1.25	BD135GOS-ND	.62	5.44	41.93	—	—
	60	60	1.5	25	1.25	BD137GOS-ND	.62	5.44	41.93	—	—
	60	60	1	40	30	2N4922GOS-ND	.74	6.43	49.63	—	—
	60	60	4	25	40	2N5191GOS-ND	.89	7.82	60.36	—	—
	60	60	4	750	40	MJE800GOS-ND	.70	6.09	46.95	—	—
	60	60	4	500	1.5	2N6038GOS-ND	.84	7.39	57.01	—	—
	60	80	3	12	12.5	MJE181GOS-ND	.71	5.96	44.71	—	—
	80	80	1	40	30	2N4923GOS-ND	.74	6.43	49.63	—	—
	80	80	4	20	40	2N5192GOS-ND	.79	6.96	53.65	—	—
	80	80	4	750	40	MJE802GOS-ND	.70	6.09	46.95	—	—
	80	80	4	500	1.5	2N6039GOS-ND	.84	7.39	57.01	—	—

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
5	80	100	3	12	1.5	MJE182GOS-ND	.68	5.72	42.86	—	—
	80	100	1.5	25	1.25	BD139GOS-ND	.62	5.44	41.93	—	—
	100	100	4	750	40	BD681GOS-ND	.69	6.05	46.66	—	—
	100	100	4	40	1.5	MJE243GOS-ND	.67	5.87	45.28	—	—
	300	—	0.5	30	20	MJE340GOS-ND	.71	5.96	44.71	—	—
	350	375	0.5	25	20	2N5657GOS-ND	.70	6.09	46.95	—	—
TO-247 — RoHS Compliant											
6	230	230	15	12	—	MJW3281AGOS-ND	3.65	32.60	267.34	—	—
	250	400	16	8	—	MJW21194GOS-ND	4.34	38.75	317.75	—	—
TO-264/TO-3PBL — RoHS Compliant											
7	200	200	15	25	200	MJL3281AGOS-ND	4.00	35.71	292.80	—	—
	250	400	16	25	200	MJL21196GOS-ND	4.76	42.50	348.50	—	—
	250	400	16	25	200	MJL21194GOS-ND	5.04	45.00	369.00	—	—
	350	350	15	80	230	MJL4281AGOS-ND	6.25	56.25	462.50	—	—
SOT-23 — RoHS Compliant											
8	12	12	2.0	200	.54	NSS12201LT1GOSCT-ND	.66	5.28	39.60	3,000	186.00/M
	15	30	.05	20	.225	MMBT918LT1GOSCT-ND	.62	4.19	19.70	3,000	58.00/M
	15	40	0.2	40	.225	MMBT2369LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	15	40	0.2	40	.225	MMBT2369ALT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	20	20	2.0	200	.46	NSS20201LT1GOSCT-ND	.66	5.28	39.60	3,000	186.00/M
	25	30	.05	450	.225	MMBT5089LT1GOSCT-ND	.44	2.99	14.08	3,000	41.00/M
	25	30	—	60	.225	MMBTH10LT1GOSCT-ND	.62	4.19	19.70	3,000	58.00/M
	30	60	0.6	50	.225	MMBT2222LT1GOSCT-ND	.39	2.53	11.02	3,000	30.00/M
	30	35	.05	350	.225	MMBT5088LT1GOSCT-ND	.41	2.79	13.14	3,000	39.00/M
	30	30	0.3	5K	.225	MMBTA13LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	30	30	0.3	10K	.225	MMBTA14LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	30	30	0.1	110	.225	BC848ALT1GOSCT-ND	.38	2.51	10.91	3,000	29.46/M
	30	30	0.1	200	.225	BC848BLT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	30	30	0.1	420	.225	BC848CLT1GOSCT-ND	.40	2.61	11.34	3,000	30.62/M
	40	75	0.6	50	.225	MMBT2222ALT1GOSCT-ND	.35	2.29	9.94	3,000	27.00/M
	40	75	0.6	35	.225	MMBT2222ALT3GOSCT-ND	.28	1.86	8.10	10,000	16.00/M
	40	60	0.2	70	.225	MMBT3904LT1GOSCT-ND	.34	2.24	9.72	3,000	26.00/M
	40	60	0.2	—	.225	MMBT3904LT3GOSCT-ND	.34	2.24	9.72	10,000	19.00/M
	40	60	0.6	40	.225	MMBT4401LT1GOSCT-ND	.35	2.29	9.94	3,000	27.00/M
	40	40	0.5	10K	.225	MMBT6427LT1GOSCT-ND	.53	3.62	17.02	3,000	50.00/M
	40	40	2.0	180	.46	NSS40201LT1GOSCT-ND	.66	5.28	39.60	3,000	186.00/M
	45	55	0.2	500	.225	MMBT6429LT1GOSCT-ND	.53	3.62	17.02	3,000	50.00/M
	45	50	0.5	100	.225	BC817-16LT1GOSCT-ND	.41	2.71	11.77	3,000	31.78/M
	45	50	0.5	160	.225	BC817-25LT1GOSCT-ND	.37	2.46	10.69	3,000	28.87/M
	45	50	0.5	250	.225	BC817-40LT1GOSCT-ND	.37	2.46	10.69	3,000	28.87/M
	45	50	0.5	100	.225	BCX19LT1GOSCT-ND	.48	3.25	15.30	3,000	44.94/M
	45	50	0.1	110	.225	BC847ALT1GOSCT-ND	.38	2.51	10.91	3,000	29.46/M
	45	50	0.1	200	.225	BC847BLT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	45	50	0.1	420	.225	BC847CLT1GOSCT-ND	.40	2.61	11.34	3,000	30.62/M
	45	50	0.1	420	.225	BC850CLT1GOSCT-ND	.40	2.61	11.34	3,000	30.62/M
	50	60	0.2	250	.225	MMBT6428LT1GOSCT-ND	.53	3.62	17.02	3,000	50.00/M
	60	60	0.5	100	.225	MMBTA05LT1GOSCT-ND	.41	2.79	13.14	3,000	39.00/M
	60	60	0.1	250	.225	MMBT2484LT1GOSCT-ND	.50	3.38	15.90	3,000	47.00/M
	60	140	2	100	.46	NSS60201LT1GOSCT-ND	.66	5.28	39.60	3,000	186.00/M
	65	80	0.1	110	.225	BC846ALT1GOSCT-ND	.38	2.51	10.91	3,000	29.46/M
	65	80	0.1	200	.225	BC846BLT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	80	80	0.5	100	.225	MMBTA06LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	80	80	0.5	100	.225	MMBTA06LT3GOSCT-ND	.43	2.92	13.74	10,000	29.00/M
	80	80	0.5	100	.225	MMBT8099LT1GOSCT-ND	.53	3.62	17.02	3,000	50.00/M
	140	160	0.6	60	.225	MMBT5550LT1GOSCT-ND	.41	2.79	13.14	3,000	39.00/M
	160	180	0.6	80	.225	MMBT5551LT1GOSCT-ND	.44	2.99	14.08	3,000	41.00/M
	300	300	0.5	25	.225	MMBTA42LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	350	350	0.1	15	.225	MMBT6517LT1GOSCT-ND	.59	4.67	31.97	3,000	135.00/M
SOT-223 — RoHS Compliant											
9	25	20	1	50	1.5	BCP68T1GOSCT-ND	.54	3.82	25.49	1,000	101.96
	40	40	3	100	2	NJT4031NT1GOSCT-ND	.49	3.88	26.52	1,000	122.00
	40	40	3	100	2	NSS40301MZ4T1GOSCT-ND	.77	6.16	46.20	1,000	238.00
	40	60	0.2	30	1.5	PZT3904T1GOSCT-ND	.55	3.91	26.08	1,000	104.32
	40	75	0.6	50	1.5	PZT2222AT1GOSCT-ND	.55	3.91	26.08	1,000	104.00
	60	100	6	50	0.8	NSS60601MZ4T1GOSCT-ND	.66	5.28	39.60	1,000	204.00
	60	80	2	75	0.8	PZT651T1GOSCT-ND	.45	3.54	24.22	1,000	112.00
	80	90	1	1000	1.25	BSP52T1GOSCT-ND	.50	3.90	26.66	1,000	123.05
	80	100	1	40	1.5	BCP56T1GOSCT-ND	.55	3.91	26.08	1,000	104.32
	80	100	1	100	1.5	BCP56-16T1GOSCT-ND	.55	3.91	26.08	1,000	104.32
	300	300	.05	25	1.5	PZTA42T1GOSCT-ND	.61	4.28	28.57	1,000	114.00
	300	300	0.1	50	1.5	BF720T1GOSCT-ND	.59	4.60	31.50	1,000	145.40
	350	400	0.1	40	0.8	BSP19AT1GOSCT-ND	.59	4.60	31.50	1,000	145.40
SOT-323 — RoHS Compliant											
10	40	75	0.6	50	.150	MMBT2222AWT1GOSCT-ND	.40	2.63	11.45	3,000	31.00/M
	40	60	0.2	—	.150	MMBT3904WT1GOSCT-ND	.41	2.71	11.77	3,000	32.00/M
	65	80	0.1	200	.150	BC846BWT1GOSCT-ND	.40	2.63	11.45	3,000	31.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.
‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
SOT-363/SC-88 — RoHS Compliant											
11	40	60	0.2	70	.150	MBT3904DW1T1GOSCT-ND	.50	3.38	15.90	3,000	46.70/M
	45	50	0.1	200	.38	BC847BDW1T1GOSCT-ND	.55	3.71	17.46	3,000	51.00/M
	65	80	0.1	—	.38	BC846BDW1T1GOSCT-ND	.55	3.71	17.46	3,000	51.00/M
SC-75/SOT-416 — RoHS Compliant											
13	45	50	0.1	200	.200	BC847BTT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	40	60	0.2	—	.200	MMBT3904TT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
	40	75	0.6	35	.150	MMBT2222ATT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
	50	50	0.1	35	.200	DTC114EET1GOSCT-ND	.41	2.71	11.77	3,000	32.00/M
DPAK — RoHS Compliant											
14	25	40	5	10	1.4	MJD200GOS-ND	.68	5.98	46.10	—	—
	25	40	5	70	1.4	MJD200T4GOSCT-ND	.75	6.49	51.23	2,500	248.00/M
	60	70	10	5	1.75	MJD3055GOS-ND	.98	8.61	66.40	—	—
	80	—	8	40	1.75	MJD44H11GOS-ND	.71	6.22	47.97	—	—
	80	—	8	60	1.75	MJD44H11T4GOSCT-ND	.78	6.75	53.30	2,500	258.00/M
	100	100	2	200	1.75	MJD112GOS-ND	.66	5.74	44.26	—	—
	100	100	2	500	1.75	MJD112T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	100	100	3	10	1.56	MJD31CT4GOSCT-ND	.75	6.01	45.08	2,500	212.00/M
	100	100	3	10	1.56	MJD31CGOS-ND	.65	5.46	40.99	—	—
	100	100	8	1K	1.75	MJD122T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	100	100	8	100	1.75	MJD122GOS-ND	.66	5.74	44.26	—	—
	250	350	1	10	1.56	MJD47GOS-ND	.79	6.93	53.48	—	—
	250	350	1	10	1.56	MJD47T4GOSCT-ND	.87	7.53	59.42	2,500	287.00/M
	300	300	0.5	30	1.56	MJD340GOS-ND	.66	5.74	44.26	—	—
	300	300	0.5	30	1.56	MJD340T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	400	500	1	10	1.56	MJD50GOS-ND	.79	6.93	53.48	—	—
	400	500	1	10	1.56	MJD50T4GOSCT-ND	.87	7.53	59.42	2,500	287.00/M
DPAK-3 — RoHS Compliant											
15A	80	—	8	40	1.75	MJD44H11-1GOS-ND	.87	7.65	59.02	—	—
	100	100	2	200	1.75	MJD112-1GOS-ND	.74	6.46	49.80	—	—
15B	100	100	4	15	1.4	MJD243GOS-ND	.80	7.00	54.00	—	—
	100	100	4	15	1.4	MJD243T4GOSCT-ND	.88	7.60	60.00	2,500	290.00/M
D2PAK — RoHS Compliant											
16	80	—	10	40	2	MJB44H11GOS-ND	1.39	12.32	97.37	—	—
	100	100	6.0	15	2	MJB41CGOS-ND	1.16	10.23	80.85	—	—
3-WDFN — RoHS Compliant											
17	12	12	5	200	.875	NSS12501UW3T2GOSCT-ND	.88	7.90	62.73	3,000	319.00/M
	20	20	5	180	.875	NSS20501UW3T2GOSCT-ND	1.03	9.18	72.90	3,000	378.00/M
	40	40	5	180	.875	NSS40501UW3T2GOSCT-ND	1.03	9.18	72.90	3,000	378.00/M
1206A ChipFET — RoHS Compliant											
18	12	12	6	200	.830	NSS12601CF8T1GOSCT-ND	.88	7.60	60.00	3,000	290.00/M
	20	20	6	200	.830	NSS20601CF8T1GOSCT-ND	.88	7.60	60.00	3,000	290.00/M
	40	40	6	200	.830	NSS40601CF8T1GOSCT-ND	.76	6.53	51.54	3,000	236.00/M
SOT-963 — RoHS Compliant											
21	40	60	0.2	30	.240	NST3904DP6T5GOSCT-ND	.57	4.10	24.62	8,000	74.00/M
	45	50	0.1	200	.240	NST847BDP6T5GOSCT-ND	.57	4.10	24.62	8,000	74.00/M
Dual SOT-1123 — RoHS Compliant											
22	40	60	0.2	30	.290	NST3904F3T5GOSCT-ND	.47	3.36	20.15	8,000	60.00/M
	45	50	0.1	200	.290	NST847BF3T5GOSCT-ND	.47	3.36	20.15	8,000	60.00/M
PNP											
TO-3 — RoHS Compliant											
1	60	60	25	35	200	2N5883GOS-ND	3.78	33.75	276.75	—	—
	60	70	15	5	—	MJ2955GOS-ND	2.85	25.76	207.00	—	—
	80	80	25	35	200	2N5884GOS-ND	4.03	36.02	295.35	—	—
	80	80	50	15	300	2N5684GOS-ND	8.50	76.50	629.00	—	—
	100	100	20	100	—	2N6287GOS-ND	4.06	36.25	297.25	—	—
	100	100	12	750	150	2N6052GOS-ND	4.06	36.25	297.25	—	—
	90	100	30	25	—	MJ4502GOS-ND	3.98	35.50	291.10	—	—
	120	120	30	1K	200	MJ11015GOS-ND	4.06	36.25	297.25	—	—
	120	200	15	—	180	MJ15016GOS-ND	3.04	27.44	220.50	—	—
	120	120	50	400	—	MJ11033GOS-ND	9.32	83.84	689.31	—	—
	140	140	20	25	250	MJ15004GOS-ND	3.92	35.00	287.00	—	—
	200	350	16	15	250	MJ15023GOS-ND	4.56	40.75	334.15	—	—
	250	250	15	100	—	MJ11021GOS-ND	5.90	53.14	436.90	—	—
	250	400	16	15	250	MJ15025GOS-ND	4.56	40.75	334.15	—	—
	250	400	16	25	250	MJ21193GOS-ND	4.56	40.75	334.15	—	—
	250	400	16	25	250	MJ21195GOS-ND	3.92	35.00	287.00	—	—
TO-92 — 1.0mm Pitch — RoHS Compliant											
2A	40	40	—	250	.625	MPS4250GOS-ND	.53	3.60	16.79	—	—
	40	40	0.2	60	.625	2N3906GOS-ND	.51	3.38	14.69	—	—
	40	40	0.6	30	.625	2N4403GOS-ND	.38	2.58	12.02	—	—
	40	50	1	50	1	MPSW51AGOS-ND	.40	3.12	21.40	—	—
	60	80	2	40	.625	MPS751GOS-ND	.44	3.12	20.48	—	—
	50	50	0.05	250	.625	2N5087GOS-ND	.49	3.35	15.65	—	—
	60	60	0.6	50	.625	MPS2907AGOS-ND	.47	3.19	14.90	—	—
2A	60	60	0.5	100	.625	MPSA55GOS-ND	.49	3.37	15.72	—	—
	80	80	0.5	100	.625	MPSA56GOS-ND	.49	3.37	15.72	—	—
	150	160	0.6	40	.625	2N5401GOS-ND	.49	3.35	15.65	—	—
	300	300	0.5	25	.625	MPSA92GOS-ND	.58	3.94	18.37	—	—
TO-92 — 2.5mm Pitch — RoHS Compliant											
2B	40	40	0.2	100	.625	2N3906RL1GOSCT-ND	.51	3.38	14.69	2,000	40.00/M
	40	40	0.2	80	.250	2N3906RLRAGOSCT-ND	.51	3.38	14.69	2,000	39.67/M
	40	40	0.2	60	.625	2N3906RLRPGOSCT-ND	.51	3.38	14.69	2,000	40.00/M
	40	40	0.6	60	.625	2N4403RLRAGOSCT-ND	.43	2.92	13.74	2,000	40.35/M
	60	60	0.5	100	.625	MPSA55RLRAGOSCT-ND	.56	3.82	17.97	2,000	53.00/M
	60	60	0.6	100	.625	PN2907ARLRAGOSCT-ND	.37	2.50	11.77	—	—
	60	60	0.6	100	.625	MPS2907ARLRAGOSCT-ND	.53	3.62	17.02	2,000	50.00/M
	60	80	2	40	.625	MPS751RLRAGOSCT-ND	.49	3.49	23.28	2,000	84.00/M
	80	80	0.5	100	.625	MPSA56RLRMGOSCT-ND‡	.56	3.82	17.97	2,000	52.78/M
	80	80	0.5	100	.625	MPS8599RLRAGOSCT-ND	.44	3.18	19.07	—	—
	80	80	0.5	100	.600	MPSA56RLRAGOSCT-ND	.56	3.82	17.97	2,000	53.00/M
	150	160	0.6	50	.625	2N5401RLRAGOSCT-ND	.56	3.80	17.89	2,000	52.55/M
	300	300	0.5	25	.625	MPSA92RLRAGOSCT-ND	.66	4.46	20.99	2,000	62.00/M
	300	300	0.5	25	1	MPSW92RLRAGOSCT-ND	.63	4.49	29.92	2,000	108.00/M
	350	350	0.5	20	.625	2N6520RLRAGOSCT-ND	.46	3.64	24.89	2,000	105.00/M
TO-218 — RoHS Compliant											
3	60	60	25	15	—	TIP36AGOS-ND	3.00	27.13	217.97	—	—
	60	100	15	5	—	TIP2955GOS-ND	1.93	17.39	139.73	—	—
	100	100	20	100	—	MJH6287GOS-ND	4.66	41.58	340.93	—	—
	150	150	15	100	—	MJH11017GOS-ND	4.24	37.88	310.62	—	—
	160	160	16	8	—	MJE4353GOS-ND	4.17	37.26	305.53	—	—
	250	250	15	100	—	MJH11021GOS-ND	4.59	40.99	336.09	—	—
TO-218AC — RoHS Compliant											
3	100	100	10	1K	3.5	TIP147GOS-ND	2.12	19.13	153.70	—	—
	100	100	25	25	125	TIP36CGOS-ND	3.00	27.13	217.97	—	—
TO-220AB — RoHS Compliant											
4	30	40	7	30	40	2N6111GOS-ND	1.17	10.40	82.16	—	—
	40	40	6	15	2	TIP42GOS-ND	.84	7.39	57.01	—	—
	50	60	7	30	40	2N6109GOS-ND	1.17	10.40	82.16	—	—
	60	60	3	25	2	TIP32AGOS-ND	.62	5.44	41.93	—	—
	60	60	5	1K	2	TIP125GOS-ND	.99	8.69	67.07	—	—
	60	60	8	1K	75	2N6040GOS-ND	.92	8.16	64.51	—	—
	60	60	10	1K	2	2N6667GOS-ND	1.17	10.40	82.16	—	—
	60	—	10	60	50	D45H8GOS-ND	1.22	10.78	85.20	—	—
	60	70	10	20	75	MJE2955TGOS-ND	1.04	9.24	73.03	—	—
	70	80	7	30	40	2N6107GOS-ND	1.00	8.86	69.99	—	—
	80	—	10	60	50	D45H11GOS-ND	1.22	10.78	85.20	—	—
	80	80	3	10	2	TIP32BGOS-ND	.62	5.44	41.93	—	—
	80	80	8	200	2	TIP106GOS-ND	1.00	8.86	69.99	—	—
	80	90	15	20	1.8	2N6491GOS-ND	1.15	10.16	80.33	—	—
	80	—	15	35	83	D45VH10GOS-ND	1.22	10.78	85.20	—	—
	100	100	2	500	2	TIP117GOS-ND	.94	8.26	63.71	—	—
	100	100	15	1K	85	BDW47GOS-ND	1.35	11.94	94.33	—	—
	100	100	8	750	—	BDX54CGOS-ND	1.06	9.39	74.22	—	—
	100	100	8	200	2	TIP107GOS-ND	.91	8.09	63.90	—	—
	100	100	8	1K	75	2N6042GOS-ND	.92	8.16	64.51	—	—
	100	100	1	40	2	TIP30CGOS-ND	.71	5.96	44.71	—	—
	100	100	3	25	2	TIP32CGOS-ND	.71	5.96	44.71	—	—
	100	100	6	30	2	TIP42CGOS-ND	.82	7.17	55.34	—	—
	150	150	8	20	—	MJE15029GOS-ND	1.53	13.58	107.30	—	—
	150	150	8	40	2	MJE15031GOS-ND	1.53	13.58	107.30	—	—
	250	250	8	50	2	MJE15033GOS-ND	1.48	13.09	103.46	—	—
	300	—	8	5	—	MJE5850GOS-ND	3.34	29.81	244.43	—	—
	300	300	1	10	—	MJE5730GOS-ND	1.56	13.86	109.54	—	—
	350	350	4	100	2	MJE15035GOS-ND	1.47	13.02	102.90	—	—
	375	375	1	30	2	MJE5731AGOS-ND	1.56	13.86	109.54	—	—
	400	—	8	15	80	MJE5852GOS-ND	3.34	29.81	244.43	—	—
TO-220FP — RoHS Compliant											
4	150	150	8	2	2	MJF15031GOS-ND	1.81	16.34	131.34	—	—
TO-225 — RoHS Compliant											
5	40	40	4	—	—	MJE371GOS-ND	.70	6.09	46.95	—	—
	60	60	1	10	30	2N4919GOS-ND	.74	6.43	49.63	—	—
	80	80	4	750	—	MJE702GOS-ND	.70	6.09	46.95	—	—
	80	80	4	750	—	MJE703GOS-ND	.70	6.09	46.95	—	—
TO-225AA — RoHS Compliant											
5	25	40	5	75	1.5	MJE210GOS-ND	.71	5.96	44.71	—	—
	40	40	1	40	30	2N4918GOS-ND	.74	6.43	49.63	—	—
	40	40	4	—	1.5	2N6034GOS-ND	.89	7.82	60.36	—	—
	40	60	3	12	12.5	MJE170GOS-ND	.71	5.96	44.71	—	—
	45	45	1.5	25	1.25	BD136GOS-ND	.62	5.44	41.93	—	—
	60	60	4	25	40	2N5194GOS-ND	.87	7.61	58.70	—	—
	60	60	4	750	40	MJE700GOS-ND	.70	6.09	46.95	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.

‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

ON Semiconductor™ Transistors *(Cont.)*

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
5	60	80	3	12	12.5	MJE171GOS-ND	.71	5.96	44.71	—	—
	80	80	1	10	30	2N4920GOS-ND	.74	6.43	49.63	—	—
	80	80	4	500	1.5	2N6036GOS-ND	.79	6.96	53.65	—	—
	80	100	3	12	1.5	MJE172GOS-ND	.71	5.96	44.71	—	—
	80	100	1.5	25	1.25	BD140GOS-ND	.62	5.44	41.93	—	—
	100	100	4	750	40	BD682GOS-ND	.69	6.04	46.63	—	—
	100	100	4	40	1.5	MJE253GOS-ND	.67	5.87	45.28	—	—
	300	—	0.5	30	20	MJE350GOS-ND	.71	5.96	44.71	—	—
TO-247 — RoHS Compliant											
6	250	400	16	8	—	MJW21193GOS-ND	4.34	38.75	317.75	—	—
TO-264/TO-3PBL — RoHS Compliant											
7	200	200	15	60	200	MJL1302AGOS-ND	4.00	35.71	292.80	—	—
	250	400	16	25	200	MJL21195GOS-ND	4.76	42.50	348.50	—	—
	250	400	16	25	200	MJL21193GOS-ND	5.04	45.00	369.00	—	—
	350	350	15	80	230	MJL4302AGOS-ND	6.25	56.25	462.50	—	—
SOT-23 — RoHS Compliant											
8	20	20	2	250	.540	NSS20200LT1GOSCT-ND✔	.66	5.28	39.60	3,000	186.00/M
	30	30	0.5	10K	.225	MMBTA64LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	30	30	0.1	420	.225	BC858CLT1GOSCT-ND	.40	2.61	11.34	3,000	30.62/M
	30	30	0.1	220	.225	BC858BLT1GOSCT-ND	.39	2.53	11.02	3,000	30.00/M
	30	30	0.5	5K	.225	MMBTA63LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	40	40	0.2	80	.225	MMBT3906LT1GOSCT-ND	.34	2.24	9.72	3,000	26.00/M
	40	40	0.6	60	.225	MMBT4403LT1GOSCT-ND	.35	2.29	9.94	3,000	27.00/M
	45	50	0.5	40	.225	BC807-16LT1GOSCT-ND	.41	2.71	11.77	3,000	32.00/M
	45	50	0.1	220	.225	BC857BLT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	45	50	0.5	160	.225	BC807-25LT1GOSCT-ND	.39	2.58	11.23	3,000	30.32/M
	45	50	0.5	250	.225	BC807-40LT1GOSCT-ND	.39	2.58	11.23	3,000	30.32/M
	45	50	0.1	420	.225	BC857CLT1GOSCT-ND	.39	2.53	11.02	3,000	30.00/M
	50	50	0.05	250	.225	MMBT5087LT1GOSCT-ND	.44	2.99	14.08	3,000	41.00/M
	60	60	0.6	100	.225	MMBT2907ALT1GOSCT-ND	.35	2.29	9.94	3,000	27.00/M
	60	60	0.5	100	.225	MMBTA55LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	60	80	2.0	100	.460	NSS60200LT1GOSCT-ND	.66	5.28	39.60	3,000	186.00/M
	65	80	0.1	125	.225	BC856ALT1GOSCT-ND	.38	2.51	10.91	3,000	29.46/M
	65	80	0.1	220	.225	BC856BLT1GOSCT-ND	.39	2.53	11.02	3,000	29.76/M
	80	80	0.5	100	.225	MMBTA56LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	150	160	0.5	50	.225	MMBT5401LT1GOSCT-ND	.43	2.92	13.74	3,000	40.00/M
	300	300	0.5	25	.225	MMBTA92LT1GOSCT-ND	.44	2.99	14.08	3,000	41.00/M
	350	350	0.5	15	.225	MMBT6520LT1GOSCT-ND	.54	3.82	22.94	3,000	76.00/M
SOT-223 — RoHS Compliant											
9	20	25	1	50	1.5	BCP69T1GOSCT-ND	.54	3.82	25.49	1,000	101.96
	40	40	3	100	2.0	NJT4030PT1GOSCT-ND	.54	4.25	29.06	1,000	134.00
	40	40	3	100	2.0	NJT4030PT3GOSCT-ND	.54	4.25	29.06	4,000	123.00/M
	60	60	0.6	100	1.5	PZT2907AT1GOSCT-ND	.55	3.91	26.08	1,000	104.00
	60	100	6	120	2.0	NSS60600MZ4T1GOSCT-ND✔	.66	5.28	39.60	1,000	204.00
	60	80	2	75	0.8	PZT751T1GOSCT-ND	.45	3.54	24.22	1,000	112.00
	80	100	1.5	40	1.5	BCP53T1GOSCT-ND	.55	3.91	26.08	1,000	104.32
	80	100	1.5	25	1.5	BCP53-16T1GOSCT-ND	.55	3.91	26.08	1,000	104.00
	100	140	2	50	1.5	NSS1C200MZ4T1GOSCT-ND	.57	4.53	33.96	—	—
	300	300	50	25	1.5	PZTA92T1GOSCT-ND	.61	4.28	28.57	1,000	114.00
SOT-323/SC-70 — RoHS Compliant											
10	40	40	0.2	80	.150	MMBT3906WT1GOSCT-ND	.41	2.71	11.77	3,000	32.00/M
	60	60	0.6	50	.150	MMBT2907AWT1GOSCT-ND	.41	2.71	11.77	3,000	32.00/M
SOT-363/SC-88 — RoHS Compliant											
11	12	12	2	100	.45	NSL12AWT1GOSCT-ND	.46	3.63	24.81	3,000	105.00/M
	12	12	2	100	.650	NSS12200WT1GOSCT-ND✔	.66	5.28	39.60	3,000	186.00/M
Dual SOT-363/SC-88 — RoHS Compliant											
11	40	40	0.2	80	.150	MBT3906DW1T1GOSCT-ND	.50	3.38	15.90	3,000	46.70/M
	45	50	0.1	220	.380	BC857BDW1T1GOSCT-ND	.55	3.71	17.46	3,000	51.00/M
NEW! SC74-6 — RoHS Compliant NEW!											
11	30	40	0.7	150	.665	NSS30070MR6T1GOSCT-ND	.61	4.84	36.30	3,000	171.00/M
NEW! TSOP-6 — RoHS Compliant NEW!											
11	35	55	2	100	1	NSS35200MR6T1GOSCT-ND	.66	5.70	45.00	3,000	218.00/M
SOT-316/SC-75 — RoHS Compliant											
13	40	40	0.2	30	0.2	MMBT3906TT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
DPAK — RoHS Compliant											
14	25	40	5	10	1.4	MJD210GOS-ND	.66	5.74	44.26	—	—
	25	40	5	70	1.4	MJD210T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	60	70	10	5	1.75	MJD2955GOS-ND	.90	7.89	60.86	—	—
	60	70	10	20	1.75	MJD2955T4GOSCT-ND	.99	8.57	67.62	2,500	327.00/M
	80	—	8	60	1.75	MJD45H11T4GOSCT-ND	.82	7.11	56.15	2,500	271.00/M
14	80	—	8	40	1.75	MJD45H11GOS-ND	.75	6.55	50.53	—	—
	100	100	2	200	1.75	MJD117GOS-ND	.67	5.88	45.37	—	—
	100	100	2	200	20	MJD117T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	100	100	3	10	1.56	MJD32CGOS-ND	.70	5.90	44.26	—	—
	100	100	3	25	1.56	MJD32CT4GOSCT-ND	.81	6.49	48.68	2,500	229.00/M
	100	100	6	30	1.75	MJD42CT4GOSCT-ND	.99	8.57	67.62	2,500	327.00/M
	100	100	8	100	1.75	MJD127GOS-ND	.66	5.74	44.26	—	—
	100	100	8	1K	1.75	MJD127T4GOSCT-ND	.72	6.23	49.18	2,500	238.00/M
	300	300	0.5	30	1.56	MJD350GOS-ND	.60	5.26	40.59	—	—
	300	300	0.5	30	1.56	MJD350T4GOSCT-ND	.66	5.71	45.10	2,500	218.00/M
DPAK-3 — RoHS Compliant											
15B	100	100	4	15	1.4	MJD253T4GOSCT-ND	.88	7.60	60.00	2,500	290.00/M
D2PAK — RoHS Compliant											
16	80	—	10	40	2	MJB45H11GOS-ND	1.39	12.32	97.37	—	—
NEW! 3-WDFN — RoHS Compliant NEW!											
17	12	12	5	250	1.5	NSS12500UW3T2GOSCT-ND	1.03	9.18	72.90	3,000	378.00/M
NEW! 1206A ChipFET™ — RoHS Compliant NEW!											
18	35	55	2	100	1.35	NSS35200CF8T1GOSCT-ND	.88	7.60	60.00	3,000	290.00/M
NEW! SOT-563 — RoHS Compliant NEW!											
20	12	12	1	90	.650	NSS12100XV6T1GOSCT-ND	.61	4.84	36.30	4,000	171.00/M
NEW! SOT-723 — RoHS Compliant NEW!											
23	12	12	1	80	.625	NSS12100M3T5GOSCT-ND	.55	4.40	33.00	8,000	145.00/M
NEW! 6-WDFN — RoHS Compliant NEW!											
24	40	40	2	150	1.5	NSS40200UW6T1GOSCT-ND	1.03	9.18	72.90	3,000	378.00/M
NPN/PNP — RoHS Compliant											
DUAL SOT-363/SC-88											
11	40/ -40	60/ -40	0.2/ -0.2	70/ 80	.150	MBT3946DW1T1GOSCT-ND	.50	3.38	15.90	3,000	46.70/M
	45/ -45	50/ -50	0.1/ -0.1	200/ -200	.380	BC847BPDW1T1GOSCT-ND	.55	3.71	17.46	3,000	51.00/M

Pre-Biased Transistors

Fig.	VCB (V)	VCEO (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing		Tape and Reel§	
							10	100	Qty.	Pricing
NPN										
SOT-23 — RoHS Compliant										
8	50	50	35	10	10	MMUN2211LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	60	22	22	MMUN2212LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	80	47	47	MMUN2213LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	80	10	0.21	MMUN2214LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	8	2.2	1	MMUN2231LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	80	6.1	—	MMUN2233LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
SOT-363 — RoHS Compliant										
11	50	50	35	13	—	MUN5211DW1T1GOSCT-ND	3.91	18.40	3,000	54.00/M
	50	50	80	61.1	—	MUN5213DW1T1GOSCT-ND	3.91	18.40	3,000	54.00/M
	50	50	80	7	0.17	MUN5214DW1T1GOSCT-ND	3.91	18.40	3,000	54.00/M
	50	50	160	7	—	MUN5215DW1T1GOSCT-ND	3.91	18.40	3,000	54.00/M
SC-59										
12	50	50	35	10	10	MUN2211T1GOSCT-ND◆	2.71	11.77	3,000	32.00/M
	50	50	80	47	47	MUN2213T1OSCT-ND	3.41	20.47	—	—
SC-75/SOT-416 — RoHS Compliant										
13	50	50	80	47	47	DTC144EET1GOSCT-ND	2.71	11.77	3,000	31.78/M
SOT-563 — RoHS Compliant										
20	50	50	35	10	10	NSBC114EDXV6T1GOSCT-ND	3.97	23.84	4,000	79.00/M
	50	50	60	22	22	NSBC124EDXV6T1GOSCT-ND	3.39	20.34	—	—
	50	50	160	10	—	NSBC114TDXV6T1GOSCT-ND	3.39	20.34	—	—
NPN/PNP — RoHS Compliant										
SOT-363										
11	50	50	35	10	10	MUN5311DW1T1GOSCT-ND	3.91	18.40	3,000	54.00/M
SOT-553										
19	50	50	60	22	1	EMC2DXV5T1GOSCT-ND	3.04	20.29	—	—
	50	50	20	4.7	.47	EMC5DXV5T1GOSCT-ND	3.18	21.23	—	—
SOT-563										
20	50	50	35	10	10	NSBC114EPDXV6T1GOSCT-ND	3.97	23.84	4,000	79.00/M
	50	50	60	22	22	NSBC124EPDXV6T1GOSCT-ND	3.39	20.34	4,000	64.00/M
	50	50	80	10	47	NSBC114YPDXV6T1GOSCT-ND	3.97	23.84	4,000	79.00/M
	50	50	160	4.7	—	NSBC143TPDXV6T1GOSCT-ND	3.39	20.34	—	—
	50	50	80	2.2	47	NSBC123JPDXV6T1GOSCT-ND	3.97	23.84	4,000	79.00/M
PNP Channel — RoHS Compliant										
SOT-23										
8	50	50	30	10	10	MMUN2111LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
	50	50	80	10	1	MMUN2114LT1GOSCT-ND	2.58	11.23	3,000	30.00/M
SOT-323										
10	50	50	35	7	0.8	MUN5111T1GOSCT-ND	2.71	11.77	3,000	32.00/M
SC-59										
12	50	50	35	7	.08	MUN2111T1GOSCT-ND	2.71	11.77	3,000	32.00/M
SOT-553										
19	50	50	160	47	—	EMA6DXV5T1GOSCT-ND	2.97	20.90	4,000	81.00/M
SOT-563										
20	50	50	80	2.2	47	NSBA123JDXV6T1GOSCT-ND	3.19	21.28	—	—

✔ ***NEW!*** ◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.
‡ For Tape and Box part number, change CT-ND to TB-ND.

Zener Regulators

SOD-523

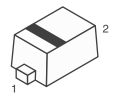

SOD-323

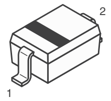

SOT-23

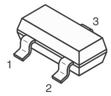

SOD-123

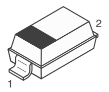

SMA

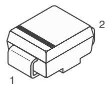

DO-41

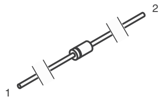

SMB

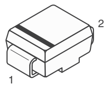

POWERMITE® Case 457

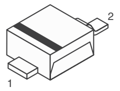

Surmetic™ 40

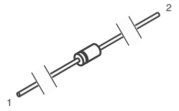

Zener Voltage	Test Current I_{ZT} (mA)	Zener Impedance Z_{ZT} @ I_{ZT}	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
				1	10	100	Qty.	Pricing
200mW SMT — SOD-523 — RoHS Compliant								
4.7	5	80	MM5Z4V7ST1GOSCT-ND	.56	3.80	17.89	3,000	52.55/M
5.1	5	60	MM5Z5V1ST1GOSCT-ND	.56	3.80	17.89	3,000	52.55/M
5.6	5	40	MM5Z5V6ST1GOSCT-ND	.56	3.80	17.89	3,000	52.55/M
200mW SMT — SOD-323 — RoHS Compliant								
4.7	5	80	MM3Z4V7T1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
4.7	5	80	MM3Z4V7ST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
5.1	5	60	MM3Z5V1T1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
5.1	5	60	MM3Z5V1ST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
5.6	5	40	MM3Z5V6ST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
5.6	5	40	MM3Z5V6T1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
6.2	5	10	MM3Z6V2T1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
6.8	5	15	MM3Z6V8T1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
10.0	5	20	MM3Z10VT1OSCT-ND	.44	2.91	12.67	—	—
10.0	5	20	MM3Z10VT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
10.0	5	15	MM3Z10VST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
12.0	5	25	MM3Z12VST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
12.0	5	25	MM3Z12VT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
15.0	5	30	MM3Z15VT1GOSCT-ND	.39	2.58	11.23	3,000	30.00/M
18.0	5	45	MM3Z18VST1GOSCT-ND	.40	2.63	11.45	3,000	30.92/M
225mW — SOT-23 — RoHS Compliant								
2.4	5	100	BZX84C2V4LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
2.7	5	100	BZX84C2V7LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
3	5	95	BZX84C3V0LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
3.3	5	95	BZX84C3V3LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
3.6	5	90	BZX84C3V6LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
3.9	5	90	BZX84C3V9LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
4.3	5	90	BZX84C4V3LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
4.7	5	80	BZX84C4V7LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
5.1	5	60	BZX84B5V1LT1GOSCT-ND	.44	3.01	14.17	3,000	41.62/M
5.1	5	60	BZX84C5V1LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
5.6	5	40	BZX84B5V6LT1GOSCT-ND	.44	3.01	14.17	3,000	41.62/M
5.6	5	40	BZX84C5V6LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
6.2	5	10	BZX84C6V2LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
6.8	5	15	BZX84C6V8LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
7.5	5	15	BZX84C7V5LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
8.2	5	15	BZX84B8V2LT1GOSCT-ND	.62	4.40	26.40	3,000	88.00/M
8.2	5	15	BZX84C8V2LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
9.1	5	15	BZX84C9V1LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
10	5	20	BZX84C10LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
11	5	20	BZX84C11LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
12	5	25	BZX84B12LT1GOSCT-ND	.44	3.01	14.17	3,000	42.00/M
12	5	25	BZX84C12LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
13	5	30	BZX84C13LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
15	5	30	BZX84B15LT1GOSCT-ND	.44	3.01	14.17	3,000	42.00/M
15	5	30	BZX84C15LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
16	5	40	BZX84C16LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
18	5	45	BZX84C18LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
20	5	55	BZX84C20LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
24	5	70	BZX84C24LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
27	2	80	BZX84C27LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
30	2	80	BZX84C30LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
33	2	80	BZX84C33LT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
36	2	90	BZX84C36LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
43	2	150	BZX84C43LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
47	2	170	BZX84C47LT1GOSCT-ND	.39	2.56	11.11	—	—
75	2	255	BZX84C75LT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
2.4	20	30	MMBZ5221BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
2.5	20	30	MMBZ5222BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
2.7	20	30	MMBZ5223BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
3	20	29	MMBZ5225BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
3.3	20	28	MMBZ5226BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
3.6	20	24	MMBZ5227BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
3.9	20	23	MMBZ5228BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
4.3	20	22	MMBZ5229BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
4.7	20	19	MMBZ5230BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
5.1	20	17	MMBZ5231BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
5.6	20	11	MMBZ5232BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
6	20	7	MMBZ5233BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
6.2	20	7	MMBZ5234BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
6.8	20	5	MMBZ5235BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
7.5	20	6	MMBZ5236BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
8.2	20	8	MMBZ5237BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
9.1	20	10	MMBZ5239BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
10	20	17	MMBZ5240BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
11	20	22	MMBZ5241BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
12	20	30	MMBZ5242BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
13	9.5	13	MMBZ5243BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
14	9	15	MMBZ5244BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
15	8.5	16	MMBZ5245BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
16	7.8	17	MMBZ5246BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.29/M
18	7	21	MMBZ5248BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
20	6.2	25	MMBZ5250BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
22	5.6	29	MMBZ5251BLT1GOSCT-ND	.41	2.71	11.77	—	—
24	5.2	33	MMBZ5252BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
27	4.6	41	MMBZ5254BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
30	4.2	49	MMBZ5256BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
33	3.8	58	MMBZ5257BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
36	3.4	70	MMBZ5258BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
39	3.2	80	MMBZ5259BLT1GOSCT-ND	.41	2.71	11.77	—	—
91	1.4	400	MMBZ5270BLT1GOSCT-ND	.46	3.01	13.07	3,000	35.00/M
500mW SMT — SOD-123 — RoHS Compliant								
1.8	.05	—	MMSZ4678T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2	.05	—	MMSZ4679T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.2	.05	—	MMSZ4680T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.4	.05	—	MMSZ4681T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.4	5	100	MMSZ2V4T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.4	20	30	MMSZ5221BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.5	20	30	MMSZ5222BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
2.7	20	30	MMSZ5223BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3	.05	—	MMSZ4683T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3	20	29	MMSZ5225BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.3	.05	—	MMSZ4684T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.3	20	28	MMSZ5226BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.3	2.3	95	MMSZ3V3T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.6	.05	—	MMSZ4685T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.6	20	24	MMSZ5227BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.9	.05	—	MMSZ4686T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
3.9	20	23	MMSZ5228BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.3	20	22	MMSZ5229BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.3	.05	—	MMSZ4687T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.3	5	90	MMSZ4V3T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.7	.05	—	MMSZ4688T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.7	20	19	MMSZ5230BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
4.7	3.7	80	MMSZ4V7T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
5.1	.05	—	MMSZ4689T1GOSCT-ND	.52	3.56	16.76	3,000	49.24/M
5.1	20	17	MMSZ5231BT1GOSCT-ND	.52	3.56	16.76	3,000	49.24/M
5.1	4.2	60	MMSZ5V1T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
5.6	5	40	MMSZ5V6T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
5.6	20	11	MMSZ5232BT1GOSCT-ND	.52	3.56	16.76	3,000	49.24/M
6	20	7	MMSZ5233BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
6.2	.05	—	MMSZ4691T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
6.2	20	7	MMSZ5234BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
6.8	20	5	MMSZ5235BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
6.8	.05	—	MMSZ4692T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
7.5	20	6	MMSZ5236BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
7.5	.05	—	MMSZ4693T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
8.2	.05	—	MMSZ4694T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
8.2	5	15	MMSZ8V2T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
8.2	20	8	MMSZ5237BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
9.1	.05	—	MMSZ4696T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
9.1	20	10	MMSZ5239BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
10	5	20	MMSZ10T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
10	.05	—	MMSZ4697T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
11	5	20	MMSZ11T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
11	.05	—	MMSZ4698T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
12	.05	—	MMSZ4699T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
12	20	30	MMSZ5242BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
12	11.2	25	MMSZ12T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
13	.05	—	MMSZ4700T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
13	9.5	13	MMSZ5243BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
14	.05	—	MMSZ4701T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
14	9.0	15	MMSZ5244BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
15	.05	—	MMSZ4702T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
15	15.5	200	MMSZ15T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
15	8.5	16	MMSZ5245BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
16	.05	—	MMSZ4703T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
16	7.8	17	MMSZ5246BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M

† Bulk only   § For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Zener Voltage	Test Current I_{ZT} (mA)	Zener Impedance Z_{ZT} @ I_{ZT}	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
				1	10	100	Qty.	Pricing
17	7.4	19	MMSZ5247BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
18	7.0	21	MMSZ5248BT1GOSCT-ND	.52	3.56	16.76	3,000	49.24/M
18	.05	—	MMSZ4705T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
18	16.7	45	MMSZ18T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
20	5	55	MMSZ20T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
20	6.2	25	MMSZ5250BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
22	5.6	29	MMSZ5251BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
24	5.2	33	MMSZ5252BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
25	5	35	MMSZ5253BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
27	2	80	MMSZ27T1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
27	4.6	41	MMSZ5254BT1GOSCT-ND	.52	3.56	16.76	3,000	49.24/M
28	4.5	44	MMSZ5255BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
30	4.2	49	MMSZ5256BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
33	3.8	58	MMSZ5257BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
36	3.4	70	MMSZ5258BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
39	3.2	80	MMSZ5259BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
43	3	93	MMSZ5260BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
43	46	375	MMSZ43T1GOSCT-ND	.41	2.77	13.02	—	—
47	2.7	105	MMSZ5261BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
51	2.5	125	MMSZ5262BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
56	2.2	150	MMSZ5263BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
60	2.1	170	MMSZ5264BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
68	1.8	230	MMSZ5266BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
75	1.7	270	MMSZ5267BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
82	1.5	330	MMSZ5268BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
91	1.4	400	MMSZ5270BT1GOSCT-ND	.52	3.56	16.76	3,000	49.00/M
1.5W SMT – SMA — RoHS Compliant								
3.3	113.6	10	1SMA5913BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
3.6	104.2	9.0	1SMA5914BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
3.9	96.1	7.5	1SMA5915BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
4.3	87.2	6.0	1SMA5916BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
4.7	79.8	5.0	1SMA5917BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
5.1	73.5	4.0	1SMA5918BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
5.6	66.9	2.0	1SMA5919BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
6.2	60.5	2.0	1SMA5920BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
6.8	55.1	2.5	1SMA5921BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
7.5	50	3.0	1SMA5922BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
8.2	45.7	3.5	1SMA5923BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
10	37.5	4.5	1SMA5925BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
12	31.2	6.5	1SMA5927BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
13	28.8	7.0	1SMA5928BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
15	25	9.0	1SMA5929BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
16	23.4	10	1SMA5930BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
18	20.8	12	1SMA5931BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
24	15.6	19	1SMA5934BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
27	13.9	23	1SMA5935BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
30	12.5	26	1SMA5936BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
33	11.4	33	1SMA5937BT3GOSCT-ND	.53	4.17	28.52	5,000	113.00/M
15	50	10	BZG03C15GOSCT-ND	.60	4.72	32.26	5,000	128.00/M
150	5	300	BZG03C150GOSCT-ND	.60	4.72	32.26	5,000	128.00/M
3W DO-41 Surmetic™ 30 — RoHS Compliant								
5.6	66.9	2	1N5919BGOS-ND†	.48	3.80	26.08	—	—
6.2	60.5	2	1N5920BGOS-ND†	.45	3.52	24.15	—	—
6.8	55.1	2.5	1N5921BGOS-ND†	.48	3.80	26.08	—	—
10	37.5	4.5	1N5925BRLGOSCT-ND	.54	4.25	29.06	6,000	116.00/M
12	31.2	6.5	1N5927BGOS-ND†	.48	3.80	26.08	—	—
15	25	9	1N5929BGOS-ND†	.48	3.80	26.08	—	—
15	25	9	1N5929BRLGOSCT-ND	.54	4.25	29.06	6,000	116.00/M
18	20.8	12	1N5931BRLGOSCT-ND	.54	4.25	29.06	6,000	116.00/M
24	15.6	19	1N5934BGOS-ND†	.48	3.80	26.08	—	—
150	2.5	600	1N5953BGOS-ND†	.48	3.80	26.08	—	—
180	2.1	900	1N5955BRLGOSCT-ND	.54	4.25	29.06	6,000	116.00/M
200	1.9	1200	1N5956BGOS-ND†	.48	3.80	26.08	—	—
200	1.9	1200	1N5956BRLGOSCT-ND	.50	3.93	26.91	6,000	107.00/M
3W SMT — SMB — RoHS Compliant								
3.3	113.6	10	1SMB5913BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
3.6	104.2	9	1SMB5914BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
3.9	96.1	7.5	1SMB5915BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
4.3	87.2	6	1SMB5916BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
4.7	79.8	5	1SMB5917BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
5.1	73.5	4	1SMB5918BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
5.6	66.9	2	1SMB5919BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
6.2	60.5	2	1SMB5920BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
6.8	55.1	2.5	1SMB5921BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
7.5	50	3	1SMB5922BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
8.2	45.7	3.5	1SMB5923BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
9.1	41.2	4	1SMB5924BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
10	37.5	4.5	1SMB5925BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
11	34.1	5.5	1SMB5926BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
12	31.2	6.5	1SMB5927BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
13	28.8	7	1SMB5928BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
15	25	9	1SMB5929BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
16	23.4	10	1SMB5930BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
22	23.1	17.5	1SMB5933BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
30	12.5	28	1SMB5936BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
33	11.4	33	1SMB5937BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
36	10.4	38	1SMB5938BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
39	9.6	45	1SMB5939BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
43	8.7	53	1SMB5940BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
47	8	67	1SMB5941BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
51	7.3	70	1SMB5942BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
56	6.7	86	1SMB5943BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
62	6	100	1SMB5944BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
82	4.6	160	1SMB5947BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
91	4.1	200	1SMB5948BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
100	3.7	250	1SMB5949BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
150	2.5	600	1SMB5953BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
180	2.1	900	1SMB5955BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
200	1.9	1200	1SMB5956BT3GOSCT-ND	.54	4.25	29.11	2,500	123.00/M
3.2W SMT — POWERMITE® Case 457								
27	13.9	23	1PMT5935BT1OSCT-ND	.43	3.48	26.10	—	—
5W Surmetic™ 40 — RoHS Compliant								
3.3	380	3	1N5333BGOS-ND†	.44	3.68	27.57	—	—
3.3	380	3	1N5333BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
3.9	320	2	1N5335BGOS-ND†	.44	3.68	27.57	—	—
3.9	320	2	1N5335BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
4.3	290	2	1N5336BGOS-ND†	.44	3.68	27.57	—	—
4.7	260	2	1N5337BGOS-ND†	.44	3.68	27.57	—	—
4.7	260	2	1N5337BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
5.1	240	1.5	1N5338BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
5.1	240	1.5	1N5338BGOS-ND†	.44	3.68	27.57	—	—
5.6	220	1	1N5339BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
5.6	220	1	1N5339BGOS-ND†	.44	3.68	27.57	—	—
6	200	1	1N5340BGOS-ND†	.44	3.68	27.57	—	—
6.2	200	1	1N5341BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
6.2	200	1	1N5341BGOS-ND†	.44	3.68	27.57	—	—
6.8	175	1	1N5342BGOS-ND†	.44	3.68	27.57	—	—
6.8	175	1	1N5342BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
7.5	175	1.5	1N5343BGOS-ND†	.44	3.68	27.57	—	—
7.5	175	1.5	1N5343BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
8.2	150	1.5	1N5344BGOS-ND†	.44	3.68	27.57	—	—
8.2	150	1.5	1N5344BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
8.7	150	2	1N5345BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
9.1	150	2	1N5346BGOS-ND†	.44	3.68	27.57	—	—
9.1	150	2	1N5346BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
10	125	2	1N5347BGOS-ND†	.44	3.68	27.57	—	—
10	125	2	1N5347BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
11	125	2.5	1N5348BGOS-ND†	.44	3.68	27.57	—	—
12	100	2.5	1N5349BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
12	100	2.5	1N5349BGOS-ND†	.44	3.68	27.57	—	—
13	100	2.5	1N5350BGOS-ND†	.44	3.68	27.57	—	—
13	100	2.5	1N5350BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
14	100	2.5	1N5351BGOS-ND†	.44	3.68	27.57	—	—
15	75	2.5	1N5352BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
15	75	2.5	1N5352BGOS-ND†	.44	3.68	27.57	—	—
16	75	2.5	1N5353BGOS-ND†	.44	3.68	27.57	—	—
16	75	2.5	1N5353BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
17	70	2.5	1N5354BGOS-ND†	.44	3.68	27.57	—	—
18	65	2.5	1N5355BGOS-ND†	.44	3.68	27.57	—	—
18	65	2.5	1N5355BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
20	65	3	1N5357BGOS-ND†	.44	3.68	27.57	—	—
20	65	3	1N5357BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
22	50	3.5	1N5358BGOS-ND†	.44	3.68	27.57	—	—
22	50	3.5	1N5358BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
24	50	3.5	1N5359BGOS-ND†	.44	3.68	27.57	—	—
24	50	3.5	1N5359BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
25	50	4	1N5360BGOS-ND†	.44	3.68	27.57	—	—
27	50	5	1N5361BGOS-ND†	.44	3.68	27.57	—	—
27	50	5	1N5361BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
28	50	6	1N5362BGOS-ND†	.44	3.68	27.57	—	—
28	50	6	1N5362BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
30	40	8	1N5363BGOS-ND†	.44	3.68	27.57	—	—
30	40	8	1N5363BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
33	40	10	1N5364BGOS-ND†	.44	3.68	27.57	—	—
33	40	10	1N5364BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
36	30	11	1N5365BGOS-ND†	.44	3.68	27.57	—	—
36	30	11	1N5365BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
39	30	14	1N5366BGOS-ND†	.44	3.68	27.57	—	—
43	30	20	1N5367BGOS-ND†	.44	3.68	27.57	—	—
47	25	25	1N5368BGOS-ND†	.44	3.68	27.57	—	—
47	25	25	1N5368BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
51	25	27	1N5369BGOS-ND†	.44	3.68	27.57	—	—
56	20	35	1N5370BGOS-ND†	.44	3.68	27.57	—	—
62	20	42	1N5372BGOS-ND†	.44	3.68	27.57	—	—
68	20	44	1N5373BGOS-ND†	.44	3.68	27.57	—	—
75	20	45	1N5374BGOS-ND†	.44	3.68	27.57	—	—
82	15	65	1N5375BGOS-ND†	.44	3.68	27.57	—	—
100	12	90	1N5378BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
100	12	90	1N5378BGOS-ND†	.44	3.68	27.57	—	—
120	10	170	1N5380BGOS-ND†	.44	3.68	27.57	—	—
150	8	330	1N5383BGOS-ND†	.44	3.68	27.57	—	—
150	8	330	1N5383BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M
160	8	350	1N5384BGOS-ND†	.44	3.68	27.57	—	—
180	5	430	1N5386BGOS-ND†	.44	3.68	27.57	—	—
200	5	480	1N5388BGOS-ND†	.44	3.68	27.57	—	—
200	5	480	1N5388BRLGOSCT-ND	.51	4.04	30.33	4,000	142.00/M

† Bulk only § For Tape and Reel part number, change CT-ND to TR-ND.

Rectifiers

Fig. 1 — SMA

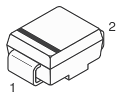

Fig. 2 — MICRODE

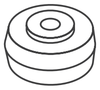

Fig. 3 — DO-41

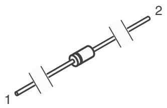

Fig. 4 — DPAK

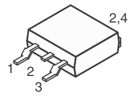

Fig. 5 — D2PAK

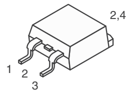

Fig. 6 — DO-201AD

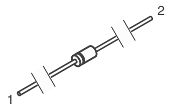

Fig. 7 — SMB

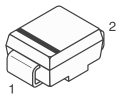

Fig. 8 — TO-220AC, TO-220B

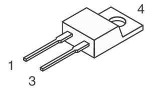

Fig. 9 — TO-220AB, TO-220, TO-220 ISO

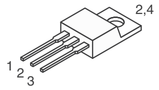

Fig. 10 — TO-247

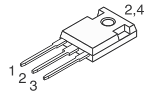

Fig. 11 — SMC

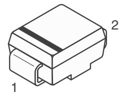

Fig. 12 — SOT-93, TO-218

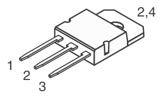

Fig. 13 — SOT-323

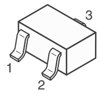

Fig. 14 — SOT-363

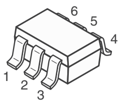

Fig. 15 — SOT-23

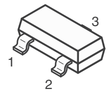

Fig. 16 — SOD-123FL, SOD-123

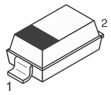

Fig. 17 — SOD-323

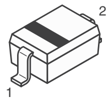

Fig. 18 — TO-92

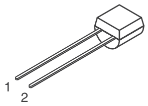

Fig. 19 — TO-220FP

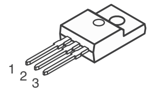

Fig. 20 — POWERMITE

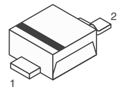

Fig. 21 — SOD-523

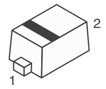

Fig. 22 — SOD-923

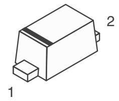

Fig. 23 — SOT-563

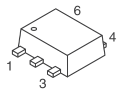

Fig. 24 — SC-88

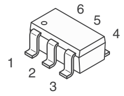

Fig. 25 — SOT-416

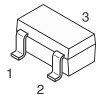

Fig. 26 — SOT-353

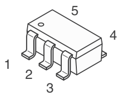

Fig.	Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Maximum Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
						Power Rectifiers					
1	SMA	50	1	50	0.875	MURA105T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	300	1	30	1.1	MRA4003T3GOSCT-ND◆	.57	4.10	24.62	5,000	74.00/M
	SMA	400	1	30	1.1	MRA4004T3GOSCT-ND◆	.57	4.10	24.62	5,000	74.00/M
	SMA	600	1	30	1.1	MRA4005T1GOSCT-ND◆	.57	4.10	24.62	1,500	94.00/M
	SMA	600	1	30	1.1	MRA4005T3GOSCT-ND◆	.57	4.10	24.62	5,000	74.00/M
	SMA	800	1	30	1.1	MRA4006T3GOSCT-ND◆	.57	4.10	24.62	5,000	74.00/M
	SMA	1000	1	30	1.1	MRA4007T3GOSCT-ND◆	.57	4.10	24.62	5,000	74.00/M
2	MICRODE	400	25	400	1.18	MR2504OS-ND†	.65	5.66	43.69	—	—
3	DO-41	50	1	30	1.1	1N4001GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	50	1	30	1.1	1N4001RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.32/M
	DO-41	50	1	30	1.2	1N4933RLGOSCT-ND◆	.43	3.05	18.28	5,000	55.00/M
	DO-41	100	1	30	1.1	1N4002GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	100	1	30	1.2	1N4934RLGOSCT-ND◆	.43	3.05	18.28	5,000	55.00/M
	DO-41	200	1	30	1.1	1N4003GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	200	1	30	1.1	1N4003RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.32/M
	DO-41	200	1	30	1.2	1N4935RLGOSCT-ND◆	.43	3.05	18.28	5,000	55.00/M
	DO-41	400	1	30	1.1	1N4004GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	400	1	30	1.1	1N4004RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.32/M
	DO-41	400	1	30	1.2	1N4936RLGOSCT-ND◆	.43	3.05	18.28	5,000	55.00/M
	DO-41	600	1	30	1.1	1N4005GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	600	1	30	1.1	1N4005RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.00/M
	DO-41	600	1	30	1.2	1N4937RLGOSCT-ND◆	.43	3.05	18.28	5,000	55.00/M
	DO-41	600	3	200	1	1N5406RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-41	800	1	30	1.1	1N4006GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	800	1	30	1.1	1N4006RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.32/M
	DO-41	800	1	35	1.75	MUR180EGOS-ND◆†	.44	3.68	27.57	—	—
	DO-41	1000	1	35	1.75	MUR1100ERLGOSCT-ND◆	.67	5.32	39.92	5,000	175.00/M
	DO-41	1000	1	30	1.1	1N4007GOS-ND◆†	.34	2.35	10.96	—	—
	DO-41	1000	1	30	1.1	1N4007RLGOSCT-ND◆	.39	2.66	12.53	5,000	31.32/M
4	DPAK	200	3	50	1	MURD620CTT4GOSCT-ND◆	.82	7.08	55.89	2,500	270.00/M
	DPAK	200	3	6	0.95	MURD320T4GOSCT-ND◆	.90	7.77	61.33	2,500	296.00/M
5	D2PAK	15	25	150	0.45	MBRB2515LT4GOSCT-ND◆	3.11	26.64	217.58	800	1119.20
6	DO-201AD	50	3	200	1	1N5400RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-201AD	50	3	200	1	1N5400GOS-ND◆†	.56	4.02	23.70	—	—
	DO-201AD	100	3	200	1	1N5401RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-201AD	200	3	100	1.25	MR852RLGOSCT-ND◆	.58	4.10	27.33	1,200	109.00/M
	DO-201AD	200	3	200	1	1N5402RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-201AD	200	3	200	1	1N5402GOS-ND◆†	.56	4.02	23.70	—	—
	DO-201AD	400	3	200	1	1N5404RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-201AD	400	3	200	1	1N5404GOS-ND◆†	.56	4.02	23.70	—	—
	DO-201AD	400	3	100	1.25	MR854GOS-ND◆†	.52	3.66	24.05	—	—
	DO-201AD	600	3	100	1.25	MR856RLGOSCT-ND◆	.58	4.10	27.33	1,200	109.00/M
	DO-201AD	600	3	200	1	1N5406GOS-ND◆†	.56	4.02	23.70	—	—
	DO-201AD	1000	3	200	1	1N5408RLGOSCT-ND◆	.63	4.47	26.83	1,200	102.84/M
	DO-201AD	1000	3	200	1.0	1N5408GOS-ND◆†	.56	4.02	23.70	—	—
7	SMB	400	1.5	50	1.1	MRS1504T3GOSCT-ND◆	.51	4.09	30.65	2,500	144.00/M
8	TO-220AC	600	8.0	100	1.4	MSR860GOS-ND◆†	1.30	11.55	91.29	—	—
	TO-220AC	600	15	100	1.5	MSR1560GOS-ND◆†	1.55	13.72	108.46	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

(Continued)

Fig.	Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Maximum Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
Fast Recovery — RoHS Compliant											
3	DO-41	50	1	30	1.2	1N4933GOS-ND†	.38	2.74	16.14	—	—
	DO-41	100	1	30	1.2	1N4934GOS-ND†	.38	2.74	16.14	—	—
	DO-41	200	1	30	1.2	1N4935GOS-ND†	.38	2.74	16.14	—	—
	DO-41	400	1	30	1.2	1N4936GOS-ND†	.38	2.74	16.14	—	—
	DO-41	600	1	30	1.2	1N4937GOS-ND†	.38	2.74	16.14	—	—
6	DO-201AD	200	3	100	1.25	MR852GOS-ND†	.52	3.66	24.05	—	—
	DO-201AD	400	3	100	1.25	MR854RLGOSCT-ND	.58	4.10	27.33	1,200	109.00/M
	DO-201AD	600	3	100	1.25	MR856GOS-ND†	.52	3.66	24.05	—	—
Ultra Fast Recovery											
1	SMA	100	2	50	0.94	MURA210T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	100	2	50	0.875	MURA110T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	200	2	40	0.95	MURA220T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	200	1	40	0.875	MURA120T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	400	1	35	1.1	MURA140T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	400	2	35	1.3	MURA240T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	600	1	30	1.25	MURA160T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
	SMA	600	2	30	1.45	MURA260T3GOSCT-ND◆	.57	4.45	30.45	5,000	121.00/M
3	DO-41	50	1	35	0.875	MUR105GOS-ND◆†	.44	3.49	23.93	—	—
	DO-41	100	1	35	0.875	MUR110GOS-ND◆†	.43	3.36	23.06	—	—
	DO-41	100	1	35	0.875	MUR110RLGOSCT-ND◆	.48	3.76	25.69	5,000	102.00/M
	DO-41	150	1	35	0.875	MUR115GOS-ND◆†	.43	3.36	23.06	—	—
	DO-41	150	1	35	0.875	MUR115RLOSCT-ND	.57	4.53	33.96	—	—
	DO-41	150	1	35	0.875	MUR115RLGOSCT-ND◆	.48	3.76	25.69	5,000	102.00/M
	DO-41	200	1	35	0.875	MUR120GOS-ND◆†	.41	3.24	22.26	—	—
	DO-41	200	1	35	0.875	MUR120RLGOSCT-ND◆	.46	3.63	24.81	5,000	99.00/M
	DO-41	400	1	35	1.25	MUR140RLGOSCT-ND◆	.48	3.76	25.69	5,000	102.00/M
	DO-41	600	1	35	1.25	MUR160GOS-ND◆†	.41	3.20	21.96	—	—
	DO-41	600	1	35	1.25	MUR160RLGOSCT-ND◆	.45	3.58	24.47	5,000	97.00/M
	DO-41	600	2	35	1.35	MUR260GOS-ND◆†	.51	3.99	27.41	—	—
	DO-41	1000	1	35	1.75	MUR1100EGOS-ND◆†	.58	4.86	36.48	—	—
	DO-41	1000	2	35	2.20	MUR2100EGOS-ND◆†	.44	3.68	27.57	—	—
4	DPAK	200	3	50	1.15	MSRD620CTT4GOSCT-ND◆	1.03	9.20	73.05	2,500	379.00/M
5	D2PAK	200	16	100	0.975	MURB1620CTGOS-ND◆†	1.57	14.16	113.75	—	—
	D2PAK	200	8	100	0.975	MURB1620CTT4GOSCT-ND◆	1.77	15.17	123.86	800	636.80
	D2PAK	600	8	100	1.5	MURB1660CTT4GOSCT-ND◆	2.06	17.63	143.94	800	740.00
	D2PAK	600	4	100	2.8	MURHB860CTT4GOSCT-ND◆	1.65	14.13	115.41	—	—
6	DO-201AD	50	4	125	0.89	MUR405GOS-ND◆†	.58	4.92	36.90	—	—
	DO-201AD	100	4	125	0.89	MUR410GOS-ND◆†	.56	4.72	35.41	—	—
	DO-201AD	100	4	125	0.89	MUR410RLGOSCT-ND◆	.65	5.19	38.95	1,500	201.00/M
	DO-201AD	150	4	125	0.89	MUR415GOS-ND◆†	.56	4.72	35.41	—	—
	DO-201AD	200	4	125	0.89	MUR420GOS-ND◆†	.52	4.35	32.63	—	—
	DO-201AD	200	4	125	0.89	MUR420RLGOSCT-ND◆	.60	4.79	35.89	1,500	185.00/M
	DO-201AD	600	4	110	1.25	MUR460RLGOSCT-ND◆	.65	5.19	38.95	1,500	201.00/M
	DO-201AD	600	4	110	1.28	MUR460GOS-ND◆†	.65	5.46	40.99	—	—
	DO-201AD	800	4	70	1.85	MUR480EGOS-ND◆†	.70	6.09	46.95	—	—
	DO-201AD	1000	4	70	1.85	MUR4100EGOS-ND◆†	.75	6.52	50.30	—	—
	DO-201AD	1000	4	70	1.75	MUR4100ERLGOSCT-ND◆	.82	7.08	55.89	1,500	298.00/M
7	SMB	100	1	40	0.875	MURS110T3GOSCT-ND◆	.58	4.57	31.29	2,500	132.00/M
	SMB	200	2	40	0.875	MURS120T3GOSCT-ND◆	.58	4.57	31.29	2,500	132.00/M
	SMB	400	1	35	1.25	MURS140T3GOSCT-ND◆	.60	4.72	32.26	2,500	137.00/M
	SMB	600	1	35	1.25	MURS160T3GOSCT-ND◆	.63	4.96	33.91	2,500	143.00/M
	SMB	200	2	40	0.95	MURS220T3GOSCT-ND◆	.54	4.30	32.25	2,500	151.00/M
	SMB	600	2	35	1.45	MURS260T3GOSCT-ND◆	.59	4.69	35.21	2,500	165.00/M
8	TO-220AC	100	15	200	—	MUR1510GOS-ND◆†	1.22	10.78	85.20	—	—
	TO-220AC	100	8	100	0.975	MUR810GOS-ND◆†	.99	8.69	67.07	—	—
	TO-220AC	150	8	100	0.975	MUR815GOS-ND◆†	.96	8.47	66.94	—	—
	TO-220AC	200	8	16	0.975	MUR820GOS-ND◆†	.93	8.24	65.09	—	—
	TO-220AC	200	15	200	1.05	MUR1520GOS-ND◆†	1.30	11.55	91.29	—	—
	TO-220AC	200	20	250	1.1	MUR2020RGOS-ND◆†	2.42	21.84	175.50	—	—
	TO-220AC	400	8	100	1.3	MUR840GOS-ND◆†	1.09	9.63	76.07	—	—
	TO-220AC	400	15	150	1.25	MUR1540GOS-ND◆†	1.55	13.72	108.46	—	—
	TO-220AC	600	15	150	1.5	MUR1560GOS-ND◆†	1.60	14.14	111.72	—	—
	TO-220AC	600	8	16	0.975	MUR860GOS-ND◆†	1.09	9.63	76.07	—	—
	TO-220AC	800	8	100	1.8	MUR880EGOS-ND◆†	1.26	11.17	88.24	—	—
	TO-220AC	1000	8	100	1.8	MUR8100EGOS-ND◆†	1.26	11.17	88.24	—	—
	TO-220AC	200	8	100	1.3	BYW29-200GOS-ND◆†	.99	8.69	67.07	—	—
9	TO-220AB	200	8	100	0.975	MUR1620CTGOS-ND◆†	1.13	9.98	78.88	—	—
	TO-220AB	200	8	100	1.2	MUR1620CTRGOS-ND◆†	1.67	15.12	121.50	—	—
	TO-220AB	200	6	75	0.975	MUR620CTGOS-ND◆†	.75	6.52	50.30	—	—
	TO-220AB	400	16	100	1.30	MUR1640CTGOS-ND◆†	1.55	14.01	112.56	—	—
	TO-220AB	400	8	100	1.45	MURH840CTGOS-ND◆†	1.74	15.40	121.72	—	—
	TO-220AB	600	8	100	1.5	MUR1660CTGOS-ND◆†	1.70	15.09	119.28	—	—
	TO-220AB	600	8	100	2.8	MURH860CTGOS-ND◆†	1.74	15.40	121.72	—	—
10	TO-247	200	30	200	1.05	MUR3020WTGOS-ND◆†	3.71	33.10	271.41	—	—
	TO-247	600	30	150	1.7	MUR3060WTGOS-ND◆†	5.10	45.51	373.19	—	—
11	SMC	50	1	40	0.875	MURS105T3GOSCT-ND◆	.58	4.57	31.29	2,500	132.00/M
	SMC	200	4	75	0.89	MURS320T3GOSCT-ND◆	.74	5.89	44.16	2,500	207.00/M
	SMC	400	3	75	1.28	MURS340T3GOSCT-ND◆	.73	6.28	49.61	2,500	240.00/M
	SMC	600	4	75	1.28	MURS360T3GOSCT-ND◆	.73	6.28	49.61	2,500	240.00/M
12	TO-218	200	15	200	1.05	MUR3020PTGOS-ND	2.96	26.42	216.62	—	—
	TO-218	400	15	200	1.05	MUR3040PTGOS-ND	4.17	37.26	305.53	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

(Continued)

Fig.	Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Maximum Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
12	TO-218	600	15	200	1.5	MUR3060PTGOS-ND◆†	4.60	41.06	336.66	—	—
19	TO-220FP	200	16	100	0.975	MURF1620CTGOS-ND◆†	1.72	15.51	124.63	—	—
	TO-220FP	600	16	100	1.50	MURF1660CTGOS-ND◆†	1.91	17.22	138.34	—	—
						Silicon Tuning Diode — RoHS Compliant					
15	SOT-23	30	0.2	—	—	MMBV105GLT1GOSCT-ND	.47	3.66	25.06	3,000	106.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Schottky Barrier Diodes

Fig.	Package	Reverse Voltage VRWM (V)	Average Forward Current IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Voltage Max. @ VF (Vdc)	@ IF (mA)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
9	TO-220	100	15	—	250	0.88	0.93	A	K/A	K	MBRF30H100CTGOS-ND	1.06	9.40	74.31	—	—
13	SOT-323	30	0.2	200	0.6	0.5	30	A	K	K/A	BAT54SWT1GOSCT-ND	.51	3.49	16.42	3,000	48.23/M
	SOT-323	30	0.2	200	0.6	0.5	30	A	—	K	BAT54WT1GOSCT-ND	.47	3.18	14.94	3,000	43.90/M
15	SOT-23	7	—	225	—	0.6	10	A	—	K	MMBD101LT1GOSCT-ND	.68	4.64	21.86	3,000	64.00/M
	SOT-23	30	—	200	—	0.45	1	A	—	K	MMBD301LT1GOSCT-ND	.65	4.41	20.74	3,000	61.00/M
	SOT-23	70	—	200	—	0.5	1	A	—	K	MMBD701LT1GOSCT-ND	.57	3.86	18.14	—	—
	SOT-23	40	0.12	225	0.2	0.5	10	A	K	A/K	BAS40-04LT1GOSCT-ND	.46	3.28	19.70	3,000	65.66/M
	SOT-23	40	0.12	225	0.2	0.5	10	K	K	A	BAS40-06LT1GOSCT-ND	.46	3.28	19.70	3,000	65.66/M
	SOT-23	40	0.12	225	0.2	0.5	10	A	—	K	BAS40LT1GOSCT-ND	.68	4.64	21.86	3,000	64.21/M
	SOT-23	70	—	225	—	0.75	10	A	—	K	BAS70LT1GOSCT-ND	.68	4.64	21.86	3,000	64.21/M
	SOT-23	30	0.2	225	0.6	0.4	10	K	K	A	BAT54ALT1GOSCT-ND	.41	2.79	13.14	3,000	38.59/M
	SOT-23	30	0.2	225	0.6	0.5	30	A	K	K/A	BAT54SLT1GOSCT-ND	.41	2.79	13.14	3,000	38.59/M
	SOT-23	30	0.2	200	0.3	0.5	30	A	—	K	BAT54LT1GOSCT-ND	.41	2.79	13.14	3,000	38.59/M

Fig.	Package	Reverse Voltage VRWM (V)	Average Forward Current IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Voltage Max. @ VF (Vdc)	@ IF	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
1	SMA	10	2	425	160	0.325	1A	MBRA210LT3GOSCT-ND◆	.69	5.55	41.63	5,000	183.00/M
	SMA	30	1	300	25	0.41	1A	MBRA130LT3GOSCT-ND◆	.46	3.59	24.60	5,000	98.00/M
	SMA	40	1	500	30	0.55	1A	MBRA140T3GOSCT-ND◆	.48	3.77	25.78	5,000	102.00/M
	SMA	40	3	—	100	0.45	3A	MBRA340T3GOSCT-ND◆	.69	5.55	41.63	5,000	183.00/M
	SMA	60	1	—	40	0.72	1A	SS16T3GOSCT-ND◆	.56	3.95	26.35	5,000	90.00/M
	SMA	60	1	—	60	0.51	1A	MBRA160T3GOSCT-ND◆	.50	4.03	30.26	5,000	133.00/M
3	DO-41	20	1	—	25	0.45	1A	1N5817RLGOSCT-ND◆	.63	4.42	29.49	5,000	100.00/M
	DO-41	20	1	—	25	0.75	3A	1N5817GOS-ND◆†	.56	3.95	25.95	—	—
	DO-41	30	1	—	25	0.55	1A	1N5818RLGOSCT-ND◆	.63	4.42	29.49	5,000	100.00/M
	DO-41	30	1	—	25	0.875	3A	1N5818GOS-ND◆†	.56	3.95	25.95	—	—
	DO-41	40	1	—	25	0.6	1A	1N5819RLGOSCT-ND◆	.61	4.34	28.95	5,000	98.00/M
	DO-41	40	1	—	25	0.9	3A	1N5819GOS-ND◆†	.56	3.95	25.95	—	—
	DO-41	50	1	—	25	1.000	3A	MBR150GOS-ND◆†	.43	3.36	23.06	—	—
	DO-41	50	1	750	25	0.75	1A	MBR150RLGOSCT-ND◆	.48	3.76	25.69	5,000	102.00/M
	DO-41	60	1	750	25	0.75	1A	MBR160RLGOSCT-ND◆	.48	3.76	25.69	5,000	102.00/M
	DO-41	60	1	—	25	1.0	3A	MBR160GOS-ND◆†	.43	3.36	23.06	—	—
	DO-41	100	1	500	50	0.79	1A	MBR1100RLGOSCT-ND◆	.62	4.89	33.44	5,000	133.00/M
	DO-41	100	1	—	50	0.51	8A	MBR1100GOS-ND◆†	.56	4.37	30.01	—	—
4	DPAK	20	3	1,000	75	0.6	3A	MBRD320T4GOSCT-ND◆	.99	8.57	67.62	2,500	327.00/M
	DPAK	20	3	4,000	75	0.7	3A	MBRD620CTT4GOSCT-ND◆	.97	8.69	68.99	2,500	358.00/M
	DPAK	30	3	1,000	75	0.6	3A	MBRD330T4GOSCT-ND◆	.99	8.57	67.62	2,500	327.00/M
	DPAK	35	8	3,750	75	0.51	8A	MBRD835LT4GOSCT-ND◆	.93	7.99	63.11	2,500	305.00/M
	DPAK	35	5	2,000	50	0.47	5A	MBRD1035CTLT4GOSCT-ND◆	1.31	11.75	93.31	2,500	484.00/M
	DPAK	35	10	—	50	0.56	10A	MBRD1035CTLGOS-ND◆	1.21	10.71	84.67	—	—
	DPAK	35	8	—	75	0.51	8A	MBRD835LGOS-ND◆†	.84	7.36	56.80	—	—
	DPAK	40	3	—	75	0.7	6A	MBRD340GOS-ND◆	.84	7.36	56.80	—	—
	DPAK	40	3	1,000	75	0.6	3A	MBRD340T4GOSCT-ND◆	.93	7.99	63.11	2,500	305.00/M
	DPAK	40	3	4,000	75	0.7	3A	MBRD640CTT4GOSCT-ND◆	.97	8.69	68.99	2,500	358.00/M
	DPAK	40	6	—	75	0.9	6A	MBRD640CTGOS-ND◆	.89	7.92	62.60	—	—
	DPAK	45	10	—	70	0.84	20A	MBRD1045T4GOSCT-ND◆	.96	8.59	68.18	2,500	354.00/M
	DPAK	60	3	—	75	0.7	6A	MBRD360GOS-ND◆	.84	7.36	56.80	—	—
	DPAK	60	3	1,000	75	0.6	3A	MBRD360T4GOSCT-ND◆	.93	7.99	63.11	2,500	305.00/M
	DPAK	60	3	4,000	75	0.7	3A	MBRD660CTT4GOSCT-ND◆	.97	8.69	68.99	2,500	358.00/M
	DPAK	60	6	—	75	0.9	6A	MBRD660CTGOS-ND◆	.89	7.92	62.60	—	—
	DPAK	60	6	—	75	0.9	6A	MBRD660CTRLGOSCT-ND◆	.97	8.69	68.99	1,800	383.00/M
5	D2PAK	10	1	—	50	0.365	1A	MBRM110LT1GOSCT-ND◆	.63	4.97	33.99	3,000	144.00/M
	D2PAK	30	40	—	300	0.46	20A	MBRB4030T4GOSCT-ND◆	3.48	31.36	255.49	800	1393.60
	D2PAK	35	12.5	7,500	150	0.55	25A	MBRB2535CTLT4GOSCT-ND◆	3.11	26.64	217.58	800	1119.20
	D2PAK	35	12.5	—	150	0.55	25A	MBRB2535CTLGOS-ND◆	2.75	24.87	199.82	—	—
	D2PAK	45	15	16,000	150	0.82	30A	MBRB2545CTT4GOSCT-ND◆	1.77	15.17	123.86	800	636.80
	D2PAK	45	30	—	150	0.82	30A	MBRB2545CTGOS-ND◆	1.57	14.16	113.75	—	—
	D2PAK	45	7.5	8,000	150	0.84	15A	MBRB1545CTT4GOSCT-ND◆	1.45	13.01	103.29	800	508.00
	D2PAK	45	15	—	150	0.84	15A	MBRB1545CTGOS-ND◆	1.34	11.86	93.72	—	—
	D2PAK	45	10	—	150	0.84	20A	MBRB1045GOS-ND◆	1.34	11.86	93.72	—	—
	D2PAK	45	10	—	150	0.84	20A	MBRB1045T4GOSCT-ND◆	1.45	13.01	103.29	800	508.00
	D2PAK	60	20	—	150	0.95	20A	MBRB2060CTGOS-ND◆	2.54	22.95	184.44	—	—
	D2PAK	100	10	13,000	150	0.85	10A	MBRB20100CTT4GOSCT-ND◆	2.20	18.90	154.32	800	793.60
	D2PAK	100	20	—	150	0.95	20A	MBRB20100CTGOS-ND◆	1.89	17.06	137.10	—	—
	D2PAK	200	10	6,000	150	0.9	10A	MBRB20200CTT4GOSCT-ND◆	2.01	17.21	140.58	800	723.20
	D2PAK	200	20	—	150	1.0	20A	MBRB20200CTGOS-ND◆	1.78	16.07	129.11	—	—
6	DO-201AD	20	3	—	80	0.475	3A	1N5820RLGOSCT-ND◆	.56	4.48	33.61	1,500	173.00/M
	DO-201AD	20	3	—	80	0.850	9.4A	1N5820GOS-ND◆†	.48	4.07	30.55	—	—
	DO-201AD	30	3	—	80	0.850	9.4A	1N5821GOS-ND◆†	.48	4.07	30.55	—	—
	DO-201AD	30	3	—	80	0.5	3A	1N5821RLGOSCT-ND◆	.56	4.48	33.61	1,500	173.00/M
	DO-201AD	40	3	—	80	0.525	3A	1N5822RLGOSCT-ND◆	.56	4.48	33.61	1,500	173.00/M
	DO-201AD	40	3	—	80	0.525	3A	1N5822GOS-ND◆†	.48	4.07	30.55	—	—
	DO-201AD	40	3	1,250	80	0.5	1A	MBR340GOS-ND◆†	.44	3.68	27.57	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk *(Continued)*

Schottky Barrier Diodes *(Cont.)*

Fig.	Package	Reverse Voltage VRWM (V)	Average Forward Current IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Voltage Max.		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
						@ VF (Vdc)	@ IF		1	10	100	Qty.	Pricing
6	DO-201AD	45	8	—	140	0.55	8A	80SQ045NGOS-ND◆†	.89	7.82	60.36	—	—
	DO-201AD	50	3	1,500	80	0.6	1A	MBR350RLGOSCT-ND◆	.51	4.04	30.33	1,500	156.00/M
	DO-201AD	60	3	—	80	1.080	9.4A	MBR360GOS-ND◆†	.44	3.68	27.57	—	—
	DO-201AD	60	3	1,500	80	0.6	1A	MBR360RLGOSCT-ND◆	.51	4.04	30.33	1,500	156.00/M
	DO-201AD	100	3	1,500	150	0.79	3A	MBR3100RLGOSCT-ND◆	.71	6.14	48.44	1,500	258.00/M
	DO-201AD	100	3	—	150	0.79	3A	MBR3100GOS-ND◆†	.65	5.65	43.59	—	—
7	SMB	20	1	525	40	0.6	1A	MBRS120T3GOSCT-ND◆	.53	4.20	28.73	2,500	122.00/M
	SMB	30	1	525	40	0.6	1A	MBRS130T3GOSCT-ND◆	.48	3.78	25.86	2,500	109.00/M
	SMB	30	2	250	40	0.395	1A	MBRS130LT3GOSCT-ND◆	.48	3.78	25.86	2,500	109.00/M
	SMB	30	2	—	40	0.6	4A	MBRS230LT3GOSCT-ND◆	.56	4.51	33.86	2,500	159.00/M
	SMB	40	1	500	40	0.6	1A	MBRS140T3GOSCT-ND◆	.55	4.31	29.48	2,500	125.00/M
	SMB	40	2	800	25	0.43	2A	MBRS240LT3GOSCT-ND◆	.52	4.16	31.22	2,500	147.00/M
	SMB	40	2	—	75	0.5	2A	SS24T3GOSCT-ND◆	.54	4.28	29.32	2,500	124.00/M
	SMB	40	2	625	70	0.43	2A	MBRS2040LT3GOSCT-ND◆	.52	4.16	31.22	2,500	147.00/M
	SMB	60	2	—	60	0.63	2A	MBRS260T3GOSCT-ND◆	.53	4.21	31.58	2,500	148.00/M
	SMB	60	2	—	40	0.51	1A	SS26T3GOSCT-ND◆	.58	4.54	31.04	2,500	131.00/M
	SMB	90	2	1,200	50	0.75	1A	MBRS190T3GOSCT-ND◆	.61	4.87	36.49	2,500	171.00/M
	SMB	100	2	—	130	0.79	2A	MBRS2H100T3GOSCT-ND◆	.79	6.29	47.15	2,500	221.00/M
	SMB	100	1	1,200	50	0.75	1A	MBRS1100T3GOSCT-ND◆	.58	4.54	31.04	2,500	131.00/M
	SMB	200	3	—	100	0.86	4A	MBRS3200T3GOSCT-ND◆	1.09	9.43	74.42	2,500	360.00/M
8	TO-220AC	15	25	—	150	0.45	25A	MBR2515LGOS-ND◆†	2.89	26.08	209.59	—	—
	TO-220AC	35	7.5	1,800	150	0.84	15A	MBR735GOS-ND◆†	.89	7.82	60.36	—	—
	TO-220AC	35	10	—	150	0.84	20A	MBR1035GOS-ND◆†	.99	8.69	67.07	—	—
	TO-220AC	35	16	9,000	150	0.63	16A	MBR1635GOS-ND◆†	1.17	10.40	82.16	—	—
	TO-220AC	45	7.5	1,800	150	0.84	15A	MBR745GOS-ND◆†	.84	7.39	57.01	—	—
	TO-220AC	45	10	5,500	150	0.84	20A	MBR1045GOS-ND◆†	.99	8.69	67.07	—	—
	TO-220AC	45	16	9,000	150	0.63	16A	MBR1645GOS-ND◆†	1.17	10.40	82.16	—	—
	TO-220AC	60	10	—	150	0.8	10A	MBR1060GOS-ND◆†	.94	8.32	65.73	—	—
	TO-220AC	90	10	5,000	150	0.8	10A	MBR1090GOS-ND◆†	1.22	10.82	85.52	—	—
	TO-220AC	100	10	5,000	150	0.8	10A	MBR10100GOS-ND◆†	1.19	10.51	83.08	—	—
	TO-220AC	250	40	—	150	0.97	40A	MBR40250GOS-ND◆	2.16	19.47	156.49	—	—
9	TO-220AB	30	10	3,750	150	0.52	10A	MBR2030CTLGOS-ND◆†	2.08	18.75	150.64	—	—
	TO-220AB	35	12.5	5,000	150	0.47	12.5A	MBR2535CTLGOS-ND◆†	1.70	15.34	123.25	—	—
	TO-220AB	35	30	—	150	0.82	30A	MBR2535CTGOS-ND◆†	1.62	14.61	117.37	—	—
	TO-220AB	45	30	—	150	0.82	30A	MBR2545CTGOS-ND◆†	1.35	11.94	94.33	—	—
	TO-220AB	45	10	—	150	0.84	20A	MBR2045CTGOS-ND◆†	.93	8.13	62.72	—	—
	TO-220AB	45	7.5	9,000	150	0.84	15A	MBR1545CTGOS-ND◆†	.87	7.61	58.70	—	—
	TO-220AB	60	10	6,000	150	0.85	10A	MBR2060CTGOS-ND◆†	1.52	13.48	106.50	—	—
	TO-220AB	80	10	—	150	0.95	20A	MBR2080CTGOS-ND◆	1.58	14.26	114.57	—	—
	TO-220AB	100	8	400	150	0.74	8A	MBR16100CTGOS-ND◆†	1.81	16.34	131.34	—	—
	TO-220AB	100	10	6,000	150	0.85	10A	MBR20100CTGOS-ND◆†	1.00	8.86	69.99	—	—
	TO-220AB	100	60	—	350	0.98	60A	MBR60H100CTGOS-ND◆	2.12	19.13	153.70	—	—
	TO-220AB	200	10	—	150	0.9	10A	MBR20200CTGOS-ND◆†	1.85	16.69	134.14	—	—
	TO-220AB	250	40	—	150	0.97	40A	MBR40250TGOS-ND◆	2.16	19.47	156.49	—	—
11	SMC	10	4	—	150	0.35	8A	MBRS410LT3GOSCT-ND◆	1.74	15.59	123.78	2,500	642.00/M
	SMC	20	4	2,500	80	0.5	3A	MBRS320T3GOSCT-ND◆	.69	5.55	41.63	2,500	196.00/M
	SMC	30	4	2,500	80	0.5	3A	MBRS330T3GOSCT-ND◆	.69	5.55	41.63	2,500	196.00/M
	SMC	40	4	2,500	80	0.525	3A	MBRS340T3GOSCT-ND◆	.56	4.50	33.72	2,500	158.00/M
	SMC	40	5	—	190	0.5	5A	MBRS540T3GOSCT-ND◆	.79	6.29	47.15	2,500	221.00/M
	SMC	60	4	2,500	80	0.74	3A	MBRS360T3GOSCT-ND◆	.65	5.22	39.17	2,500	184.00/M
	SMC	100	3	—	130	0.79	3A	MBRS3100T3GOSCT-ND◆	.83	7.20	56.83	2,500	275.00/M
	SMC	200	3	—	100	0.84	3A	MBRS3201T3GOSCT-ND◆	.97	8.40	66.29	2,500	320.00/M
	SMC	200	4	—	100	0.86	4A	MBRS4201T3GOSCT-ND◆	1.74	15.59	123.78	2,500	642.00/M
12	SOT-93	45	15	10,000	200	0.76	30A	MBR3045PTGOS-ND◆†	3.08	27.80	223.41	—	—
14	SOT-363	30	0.2	150	0.6	0.4	10mA	MBD54DWT1GOSCT-ND◆	.53	3.73	24.84	3,000	89.00/M
16	SOD-123	20	0.5	140	5.5	0.385	0.5A	MBR0520LT1GOSCT-ND◆	.44	3.15	18.92	3,000	63.08/M
	SOD-123	30	0.5	175	5.5	0.43	0.5A	MBR0530T1GOSCT-ND◆	.46	3.32	19.90	3,000	66.32/M
	SOD-123	30	1.0	—	5.5	0.47	1A	MBR130T1GOSCT-ND◆	.44	3.43	23.46	3,000	99.00/M
	SOD-123	30	0.2	400	0.6	0.4	10mA	BAT54T1GOSCT-ND◆	.72	4.88	22.98	3,000	67.52/M
	SOD-123	30	0.2	140	5.5	0.6	10mA	MMSD301T1GOSCT-ND◆	.44	3.11	18.66	3,000	62.00/M
	SOD-123	40	0.5	2,250	5.5	0.62	1A	MBR0540T1GOSCT-ND◆	.49	3.47	20.80	3,000	69.34/M
	SOD-123FL	20	1	—	40	0.53	1A	MBR120ESFT1GOSCT-ND◆	.44	3.49	23.88	3,000	101.00/M
	SOD-123FL	20	1	—	45	0.34	1A	MBR120VLSFT1GOSCT-ND◆	.50	3.92	26.83	3,000	114.00/M
	SOD-123FL	20	1	—	50	0.65	3A	MBR120LSFT1GOSCT-ND◆	.47	3.71	25.40	3,000	107.00/M
	SOD-123FL	30	1	—	40	0.38	1A	MBR130LSFT1GOSCT-ND◆	.53	4.19	28.64	3,000	121.00/M
	SOD-123FL	30	2	—	40	0.43	2A	MBR230LSFT1GOSCT-ND◆	.62	4.36	29.05	3,000	105.00/M
	SOD-123FL	40	1	—	30	0.55	1A	MBR140SFT1GOSCT-ND◆	.45	3.58	24.47	3,000	104.00/M
17	SOD-323	20	1	200	5	0.54	1000mA	NSR1020MW2T1GOSCT-ND◆	.55	3.91	23.46	3,000	78.00/M
	SOD-323	20	1	200	—	0.50	900mA	NSR0320MW2T1GOSCT-ND◆	.55	3.91	23.46	3,000	78.00/M
	SOD-323	30	—	200	0.6	0.4	10mA	BAT54HT1GOSCT-ND◆	.59	4.02	18.92	3,000	55.58/M
	SOD-323	30	—	200	—	0.6	10mA	MMDL301T1GOSCT-ND◆	.56	3.78	17.80	3,000	52.00/M
	SOD-323	40	—	200	—	0.37	1mA	RB751V40T1GOSCT-ND◆	.56	3.78	17.80	3,000	52.29/M
	SOD-323	40	0.25	—	1	0.71	200mA	NSR0240HT1GOSCT-ND◆	.47	3.18	14.94	3,000	44.00/M
	SOD-323	40	0.25	—	1	0.59	200mA	NSR0340HT1GOSCT-ND◆	.47	3.18	14.94	3,000	44.00/M
	SOD-323	70	—	200	—	1.0	10mA	MMDL770T1GOSCT-ND◆	.56	3.78	17.80	3,000	52.00/M
18	TO-92-2	30	—	280	—	0.6	10mA	MBD301GOS-ND◆†	.53	3.81	22.44	—	—
19	TO-220FP	45	12.5	—	150	0.7	12.5A	MBRF2545CTGOS-ND◆†	1.30	11.55	91.29	—	—
	TO-220FP	60	15	—	260	0.71	30A	MBRF30H60CTGOS-ND◆†	1.52	13.48	106.50	—	—
	TO-220FP	100	10	—	150	0.85	10A	MBRF20100CTGOS-ND◆†	1.20	10.59	83.69	—	—
	TO-220FP	200	10	—	150	0.9	10A	MBRF20200CTGOS-ND◆†	2.08	18.78	150.90	—	—
	TO-220FP	250	40	—	150	0.97	40A	MBRF40250TGOS-ND◆	2.96	26.78	215.18	—	—
20	POWERMITE	10	1	—	50	0.53	1A	MBRM110ET1GOSCT-ND◆	.63	4.97	33.99	3,000	144.00/M
	POWERMITE	20	1	325	50	0.45	1A	MBRM120LT1GOSCT-ND◆	.63	4.97	33.99	3,000	144.00/M
	POWERMITE	20	1	—	50	0.595	2A	MBRM120ET1GOSCT-ND◆	.63	4.97	33.99	3,000	144.00/M
	POWERMITE	20	1	375	50	0.53	1A	MBRM120ET3GOSCT-ND◆	.63	4.97	33.99	12,000	126.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

(Continued)

Schottky Barrier Diodes *(Cont.)*

C

Fig.	Package	Reverse Voltage VRWM (V)	Average Forward Current IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Voltage Max. @ VF (Vdc)	@ IF	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
20	POWERMITE	20	1	—	50	0.65	3A	MBRM120LT3GOSCT-ND◆	.63	4.97	33.99	12,000	126.00/M
	POWERMITE	30	1	325	50	0.38	1A	MBRM130LT1GOSCT-ND◆	.63	4.97	33.99	3,000	144.00/M
	POWERMITE	40	1	475	50	0.55	1A	MBRM140T1GOSCT-ND◆	.60	4.72	32.26	3,000	137.00/M
	POWERMITE	40	1	—	50	0.36	0.1A	MBRM140T3GOSCT-ND◆	.60	4.72	32.26	12,000	120.00/M
21	SOD-523	20	0.5	—	2	0.48	500mA	NSR0520V2T1GOSCT-ND◆	.50	3.54	23.60	3,000	85.00/M
	SOD-523	30	0.2	200	0.6	0.35	10mA	BAT54XV2T1GOSCT-ND◆	.68	4.63	21.78	3,000	63.97/M
	SOD-523	30	200	200	—	0.6	200mA	RB520S30T1GOSCT-ND◆	.39	2.66	12.53	3,000	36.80/M
	SOD-523	30	0.2	200	—	0.5	200mA	RB521S30T1GOSCT-ND◆	.39	2.66	12.53	3,000	36.80/M
	SOD-523	40	0.25	—	1.0	0.7	200mA	NSR0240V2T1GOSCT-ND◆	.50	3.54	23.60	3,000	85.00/M
	SOD-523	40	0.25	—	1.0	0.51	200mA	NSR0340V2T1GOSCT-ND◆	.50	3.54	23.60	3,000	85.00/M
	SOD-523	40	0.03	200	—	0.37	1mA	RB751S40T1GOSCT-ND◆	.47	3.18	14.94	3,000	43.90/M
22	SOD-923	30	0.1	200	1.0	0.525	100mA	NSR0130P2T5GOSCT-ND◆	.50	3.54	23.60	8,000	80.00/M
	SOD-923	30	0.2	200	1.0	0.5	200mA	NSR0230P2T5GOSCT-ND◆	.50	3.54	23.60	8,000	80.00/M
	SOD-923	30	0.5	—	—	0.62	500mA	NSR0530P2T5GOSCT-ND◆	.50	3.54	23.60	8,000	80.00/M
	SOD-923	40	0.07	100	0.5	0.35	1mA	NSR0140P2T5GOSCT-ND◆	.50	3.54	23.60	8,000	80.00/M
23	SOT-563	23	1	200	—	0.27	10mA	NSR0320XV6T1GOSCT-ND◆	.39	3.03	20.73	—	—
25	SOT-416	30	0.2	225	0.6	0.8	100mA	BAT54CTT1GOSCT-ND◆	.62	4.22	19.87	3,000	58.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Switching Diodes

Fig.	Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IF (mA)	Power Dissipation (mW)	Peak Surge Current IFM (mA)	Maximum Instantaneous Forward Voltage Drop (VF)	IF (mAdc)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
13	SOT-323	30	200	200	—	0.8	100	A	A	K	BAT54CWT1GOSCT-ND◆	.51	3.49	16.42	3,000	48.00/M
	SOT-323	40	100	150	500	1.2	100	A	—	K	M1MA141KT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
	SOT-323	70	200	200	500	0.8	10	A	A	K	BAV70WT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
	SOT-323	70	215	200	500	0.8	10	K	A	K/A	BAV99RWT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
	SOT-323	70	215	200	500	0.855	10	A	K	K/A	BAV99WT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
	SOT-323	70	200	200	500	0.8	10	K	—	A	BAW56WT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
	SOT-323	75	200	200	500	0.8	10	A	—	K	BAS16WT1GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
15	SOT-23	7	—	225	—	0.6	10	A	K	K/A	MMBD352LT1GOSCT-ND◆	.51	3.59	23.92	3,000	86.00/M
	SOT-23	30	200	225	—	0.8	100	A	A	K	BAT54CLT1GOSCT-ND◆	.41	2.79	13.14	3,000	39.00/M
	SOT-23	30	150	225	450	1.2	100	A	A	K	MMBD2837LT1GOSCT-ND◆	.50	3.25	14.15	3,000	38.00/M
	SOT-23	35	100	225	—	1.2	100	K	K	A	MMBD2835LT1GOSCT-ND◆	.50	3.25	14.15	3,000	38.00/M
	SOT-23	50	100	225	300	1.2	100	A	A	K	MMBD2838LT1GOSCT-ND◆	.50	3.25	14.15	3,000	38.00/M
	SOT-23	50	200	225	500	1	100	A	A	K	BAV74LT1GOSCT-ND◆	.39	2.58	11.23	3,000	30.32/M
	SOT-23	70	200	225	500	0.7	1	A	—	K	MMBD6050LT1GOSCT-ND◆	.50	3.30	14.36	3,000	39.00/M
	SOT-23	70	200	225	500	0.7	1	A	A	K	MMBD6100LT1GOSCT-ND◆	.49	3.23	14.04	3,000	38.00/M
	SOT-23	70	215	225	500	1	10	A	K	K/A	BAV199LT1GOSCT-ND◆	.68	4.64	21.86	3,000	64.21/M
	SOT-23	70	200	225	500	0.8	10	A	A	K	BAV70LT1GOSCT-ND◆	.36	2.36	10.26	3,000	27.71/M
	SOT-23	70	215	225	500	0.8	10	A	K	K/A	BAV99LT1GOSCT-ND◆	.40	2.66	11.56	3,000	31.22/M
	SOT-23	70	—	225	—	1	15	A	K	K/A	BAS70-04LT1GOSCT-ND◆	.46	3.28	19.70	3,000	66.00/M
	SOT-23	70	200	225	500	0.8	10	K	K	A	BAW56LT1GOSCT-ND◆	.36	2.36	10.26	3,000	27.71/M
	SOT-23	70	100	225	—	0.8	10	—	K	A	BAL99LT1GOSCT-ND◆	.49	3.23	14.04	3,000	37.91/M
	SOT-23	30	150	225	—	1	10	A	A	K	MMBD2837LT1OSCT-ND	.41	2.68	11.66	—	—
	SOT-23	50	100	225	—	1	10	A	A	K	MMBD2838LT1OSCT-ND	.41	2.68	11.66	—	—
	SOT-23	70	215	300	500	1.25	150	A	K	K/A	BAV99LT3GOSCT-ND◆	.40	2.66	11.56	10,000	23.00/M
	SOT-23	75	100	225	—	1.2	100	K	K	A	MMBD2836LT1GOSCT-ND◆	.47	3.11	13.50	3,000	36.00/M
	SOT-23	75	200	225	500	1	10	A	—	K	BAS116LT1GOSCT-ND◆	.62	4.19	19.70	3,000	57.86/M
	SOT-23	75	200	300	500	1.25	150	A	—	K	BAS16LT3GOSCT-ND◆	.39	2.58	11.23	10,000	22.00/M
	SOT-23	75	200	225	500	0.8	10	A	—	K	BAS16LT1GOSCT-ND◆	.39	2.58	11.23	3,000	30.32/M
	SOT-23	100	200	225	500	1	10	A	—	K	MMBD914LT1GOSCT-ND◆	.38	2.51	10.91	3,000	29.00/M
	SOT-23	100	200	225	500	0.7	1	A	K	K/A	MMBD7000LT1GOSCT-ND◆	.39	2.58	11.23	3,000	30.00/M
	SOT-23	100	200	225	500	1	10	A	—	K	MMBD914LT3GOSCT-ND◆	.38	2.51	10.91	10,000	22.00/M
	SOT-23	120	200	225	625	1	100	A	—	K	BAS19LT1GOSCT-ND◆	.39	2.58	11.23	3,000	30.32/M
	SOT-23	200	200	225	625	1	100	A	—	K	BAS20LT1GOSCT-ND◆	.39	2.58	11.23	3,000	30.32/M
	SOT-23	250	200	225	625	1	100	A	—	K	BAS21LT1GOSCT-ND◆	.36	2.36	10.26	3,000	27.71/M
	SOT-23	250	225	225	625	1	100	A	K	K/A	BAS21SLT1GOSCT-ND◆	.38	2.55	12.01	3,000	35.00/M
16	SOD-123	100	200	225	500	1	10	K	A	—	MMSD4148T1GOSCT-ND◆	.42	2.83	13.30	3,000	39.00/M
	SOD-123	100	200	225	500	1	10	K	A	—	MMSD914T1GOSCT-ND◆	.42	2.83	13.30	3,000	39.00/M
	SOD-123	100	200	425	1,000	1	10	K	A	—	MMSD4148T3GOSCT-ND◆	.42	2.83	13.30	10,000	28.00/M
	SOD-123	250	200	400	625	1.25	200	K	A	—	MMSD103T1GOSCT-ND◆	.42	2.86	13.48	3,000	40.00/M
17	SOD-323	75	200	200	500	0.8	10	K	A	—	BAS16HT1GOSCT-ND◆	.48	3.16	13.72	3,000	37.05/M
	SOD-323	100	200	200	500	1	10	K	A	—	MMDL914T1GOSCT-ND◆	.48	3.16	13.72	3,000	37.00/M
	SOD-323	200	200	200	625	1.25	200	K	A	—	BAS20HT1GOSCT-ND◆	.43	2.96	13.91	3,000	41.00/M
	SOD-323	250	200	200	625	1	100	K	A	—	BAS21HT1GOSCT-ND◆	.43	2.96	13.91	3,000	40.87/M
	SOD-323	250	200	200	625	1	200	K	A	—	BAS21AHT1GOSCT-ND◆	.42	2.85	13.39	3,000	39.00/M
21	SOD-523	75	200	120	500	0.715	1	K	A	—	BAS16XV2T1GOSCT-ND◆	.52	3.40	14.80	3,000	39.96/M
	SOD-523	100	200	200	500	1.2	100	K	A	—	1SS400T1GOSCT-ND◆	.47	3.18	14.94	3,000	43.90/M
	SOD-523	100	200	120	500	1	10	K	A	—	NSD914XV2T1GOSCT-ND◆	.75	5.07	23.85	3,000	70.06/M
23	SOT-563	75	200	357	500	0.715	1	—	—	—	BAS16DXV6T1GOSCT-ND◆	.56	3.97	23.84	4,000	79.00/M
	SOT-563	80	100	357	300	1.2	100	—	—	—	NSDEMP11XV6T1OSCT-ND	.49	3.45	22.98	—	—
24	SC-88	80	100	300	240	1.2	100	—	—	—	HN2D02FUTW1T1GOSCT-ND◆	.61	4.35	26.11	3,000	87.00/M
25	SOT-416	70	200	360	500	1.25	150	A	A	K	BAV70TT1GOSCT-ND◆	.41	2.71	11.77	3,000	32.00/M
	SOT-416	80	100	150	2,000	1.2	100	K	K	A	DAP222OSCT-ND	.42	2.77	12.03	—	—
	SOT-416	80	100	150	2,000	1.2	100	K	K	A	DAP222GOSCT-ND◆	.41	2.71	11.77	3,000	31.78/M
26	SOT-353	250	200	385	625	1	100	—	—	—	BAS21DW5T1GOSCT-ND◆	.52	3.54	16.67	3,000	48.98/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

ON Semiconductor™

Triacs

Designed primarily for power switching. The gate sensitivity of these triacs permits the use of economical transistorized or integrated circuit control circuits, and it enhances their use in low-power phase control and load-switching applications.

TO-225AA	TO-92	TO-220AB	D-PAK	SOT-223	DPAK-3
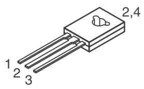	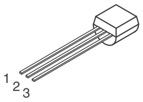	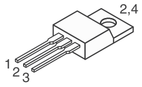	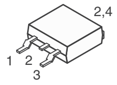	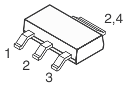	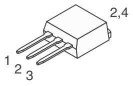

Sensitive Gate Triacs

Package	VDRM (V)	On State RMS Current IT (RMS) (A)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each				Tape and Reel†	
							1	10	100	250	Qty.	Pricing
TO-225AA	200	4	20	0.5	Consumer	C106BGOS-ND	.59	.50	.38	.33	—	—
	200	4	30	10	Full-Wave AC Control	2N6071AGOS-ND	.65	.57	.44	.38	—	—
	200	4	30	10	Full-Wave AC Control	2N6071BGOS-ND	.65	.57	.44	.38	—	—
	200	2.5	25	10	AC Power Switching	T2322BGOS-ND	.84	.74	.58	.50	—	—
	400	4	20	0.5	Consumer	C106D1GOS-ND	.59	.50	.38	.33	—	—
	400	4	25	0.5	Consumer	MCR106-6GOS-ND	.71	.60	.45	.39	—	—
	400	4	30	10	Full-Wave AC Control	2N6073AGOS-ND	.65	.57	.44	.38	—	—
	400	4	30	10	Full-Wave AC Control	2N6073BGOS-ND	.65	.57	.44	.38	—	—
	600	4	25	0.5	Consumer	MCR106-8GOS-ND	.71	.60	.45	.39	—	—
	600	4	30	10	Full-Wave AC Control	2N6075AGOS-ND	.65	.57	.44	.38	—	—
	600	4	30	10	Full-Wave AC Control	2N6075BGOS-ND	.65	.57	.44	.38	—	—
TO-92	30	0.8	10	0.1	Consumer	2N5060RLRMGOSCT-ND‡	.47	.37	.26	.21	2,000	106.56/M
	100	0.8	10	0.1	Consumer	2N5062GOS-ND	.42	.33	.23	.19	—	—
	200	0.6	8	5	MPU Interface	MAC97A4GOS-ND	.42	.33	.23	.19	—	—
	400	0.6	8	5	MPU Interface	MAC97A6GOS-ND	.42	.33	.23	.19	—	—
	600	0.6	8	5	MPU Interface	MAC97A8GOS-ND	.44	.35	.24	.20	—	—
	600	0.8	10	0.1	Consumer	MCR100-8GOS-ND	.44	.35	.24	.20	—	—
TO-220AB	400	8	100	5	Industrial/Consumer	MCR72-6GOS-ND	1.48	1.31	1.04	.91	—	—
	400	8	80	20	Consumer	MAC228A6GOS-ND	1.46	1.30	1.03	.90	—	—
	600	8	80	20	Consumer	MAC228A8GOS-ND	1.46	1.30	1.03	.90	—	—
	600	8	70	16	Full-Wave AC Control	MAC8SMGOS-ND	1.19	1.06	.84	.73	—	—
	600	12	120	20	Full-Wave AC Control	BTB12-600BW3GOS-ND	1.13	1.01	.80	.70	—	—
	600	12	120	20	Full-Wave AC Control	BTB12-600CW3GOS-ND	1.13	1.01	.80	.70	—	—
	600	15	120	20	Full-Wave AC Control	MAC15SMGOS-ND	1.51	1.34	1.06	.93	—	—
	600	8	100	5	Industrial/Consumer	MCR72-8GOS-ND	1.48	1.31	1.04	.91	—	—
	800	8	80	5	Half-Wave AC Control	MCR8SNGOS-ND	1.14	1.02	.81	.71	—	—
	800	8	80	20	Consumer	MAC228A10GOS-ND	1.51	1.34	1.06	.93	—	—
	800	12	120	20	Full-Wave AC Control	BTB12-800CW3GOS-ND	1.22	1.08	.86	.75	—	—
	800	12	120	20	Full-Wave AC Control	BTB12-800BW3GOS-ND	1.22	1.08	.86	.75	—	—
D-PAK	600	4	25	0.5	Consumer	MCR708AT4GOSCT-ND	1.02	.89	.70	.61	2,500	337.00/M
	600	4	40	0.5	Consumer	MAC4DHMT4GOSCT-ND	—	.81	.64	.56	2,500	307.00/M
SOT-223	200	0.8	8	5	MPU Interface	MAC08BT1GOSCT-ND	—	.50	.37	.32	1,000	190.00
	600	0.8	8	5	MPU Interface	MAC08MT1GOSCT-ND	—	.50	.37	.32	1,000	190.00
	600	0.8	8	0.1	Consumer	MCR08MT1GOSCT-ND	.61	.50	.37	.32	1,000	190.00
	600	1	8	5	MPU Interface	Z0103MNT1GOSCT-ND	.52	.42	.31	.28	—	—
	600	1	8	5	MPU Interface	Z0107MNT1GOSCT-ND	.52	.42	.31	.29	—	—
	600	1	8	5	MPU Interface	Z0109MNT1GOSCT-ND	.52	.42	.31	.29	—	—

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

Standard Triacs

Package	VDRM (V)	On State RMS Current IT (RMS) (A)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each				Tape and Reel†	
							1	10	100	250	Qty.	Pricing
TO-92	40	—	5	—	Unijunction	2N6028GOS-ND	.48	.38	.26	.22	—	—
TO-220AB	50	25	300	20	Overvoltage Protection	MCR69-2GOS-ND	1.69	1.50	1.19	1.04	—	—
	50	8	90	5	Full-Wave AC Control	C122F1GOS-ND	1.56	1.39	1.10	.97	—	—
	100	16	160	20	Half-Wave AC Control	2N6401GOS-ND	1.69	1.50	1.19	1.04	—	—
	400	8	80	16	Full-Wave AC Control	MAC8DGOS-ND	1.10	.97	.77	.68	—	—
	400	8	80	16	Full-Wave AC Control	MAC9DGOS-ND	1.10	.97	.77	.68	—	—
	400	12	100	16	Full-Wave AC Control	MAC12DGOS-ND	1.10	.97	.77	.68	—	—
	400	16	150	20	Full-Wave AC Control	MAC16DGOS-ND	1.37	1.22	.96	.85	—	—
	400	25	250	20	Half-Wave AC Control	2N6507TGOS-ND	1.69	1.50	1.19	1.04	—	—
	400	25	300	20	Half-Wave AC Control	MCR25DGOS-ND	1.70	1.54	1.24	1.10	—	—
	400	6	60	16	Full-Wave AC Control	T2500DGOS-ND	1.78	1.61	1.30	1.16	—	—
	400	8	100	16	Full-Wave AC Control	T2800DGOS-ND	1.78	1.61	1.30	1.16	—	—
	600	8	80	16	Full-Wave AC Control	MAC8MGOS-ND	1.10	.97	.77	.68	—	—
	600	12	100	16	Full-Wave AC Control	MAC12MGOS-ND	1.10	.97	.77	.68	—	—
	600	15	150	20	Full-Wave AC Control	MAC15A8GOS-ND	1.70	1.54	1.24	1.10	—	—
	600	16	150	20	Full-Wave AC Control	MAC16MGOS-ND	1.37	1.22	.96	.85	—	—
	600	10	100	20	Full-Wave AC Control	MAC210A8GOS-ND	1.78	1.61	1.30	1.16	—	—
	600	12	100	20	Full-Wave AC Control	2N6344AGOS-ND	1.70	1.54	1.24	1.10	—	—
	600	8	100	20	Full-Wave AC Control	2N6344GOS-ND	1.67	1.51	1.21	1.08	—	—
	800	8	80	16	Full-Wave AC Control	MAC8NGOS-ND	1.14	1.02	.81	.71	—	—
	800	8	80	16	Full-Wave AC Control	MAC9NGOS-ND	1.14	1.02	.81	.71	—	—
	800	12	100	16	Full-Wave AC Control	MAC12NGOS-ND	1.14	1.02	.81	.71	—	—
	800	12	100	20	Full-Wave AC Control	MAC212A10GOS-ND	1.52	1.38	1.11	—	—	—
	800	15	150	20	Full-Wave AC Control	MAC15A10GOS-ND	1.70	1.54	1.24	1.10	—	—
	800	16	150	20	Full-Wave AC Control	MAC16CNGOS-ND	1.55	1.38	1.09	.96	—	—
	800	12	100	5	Half-Wave AC Control	MCR12NGOS-ND	1.14	1.02	.81	.71	—	—
	800	12	100	20	Full-Wave AC Control	2N6349AGOS-ND	1.70	1.54	1.24	1.10	—	—
	800	12	100	20	Full-Wave AC Control	2N6348AGOS-ND	1.70	1.54	1.24	1.10	—	—
	800	25	250	20	Half-Wave AC Control	2N6509TGOS-ND	1.69	1.50	1.19	1.04	—	—
DPAK	600	4	40	0.5	Consumer	MAC4DSMT4GOSCT-ND	.93	.81	.64	.56	2,500	307.00/M
	600	12	100	5	Industrial/Consumer	MCR12DCMT4GOSCT-ND	1.09	.98	.78	.68	2,500	402.00/M
DPAK-3	800	4	40	0.5	Consumer	MAC4DCN-1GOS-ND	.87	.77	.60	.52	—	—

† For Tape and Reel part number, change CT-ND to TR-ND.

ON Semiconductor™

SCRs

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Pricing				Tape and Reel§	
							1	10	100	250	Qty.	Pricing
TO-220AB	50	12A	100	20	Over Voltage Protection	MCR68-2GOS-ND◆	1.70	15.02	118.67	260.35	—	—
	100	25A	300	20	Over Voltage Protection	MCR69-3GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	50	25A	250	20	Half-Wave ac Control	2N6504GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	100	25A	250	20	Half-Wave ac Control	2N6505GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	100	12A	100	20	Half-Wave ac Control	2N6395GOS-ND◆	1.48	13.09	103.46	226.98	—	—
	400	16A	160	20	Half-Wave ac Control	2N6403GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	400	25A	250	20	Half-Wave ac Control	2N6507GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	400	12A	100	5	Half-Wave ac Control	MCR12LDGOS-ND◆	1.23	10.93	86.42	189.59	—	—
	600	8A	80	5	Half-Wave ac Control	MCR8SMGOS-ND◆	1.05	9.32	73.64	161.55	—	—
	600	10A	160	20	Half-Wave ac Control	2N6404GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	600	25A	250	20	Half-Wave ac Control	2N6508GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	800	12A	100	20	Half-Wave ac Control	2N6399GOS-ND◆	1.55	13.75	108.65	238.35	—	—
	800	16A	160	20	Half-Wave ac Control	2N6405GOS-ND◆	1.69	14.98	118.38	259.71	—	—
	800	16A	160	5	Half-Wave ac Control	MCR16NGOS-ND◆	1.26	11.14	88.03	193.13	—	—
	800	25A	300	20	Half-Wave ac Control	MCR25NGOS-ND◆	1.83	16.48	132.46	294.36	—	—
	800	25A	250	20	Half-Wave ac Control	2N6509GOS-ND◆	1.69	14.98	118.38	259.71	—	—
TO-92 (A)	30	0.8A	10	0.1	High Volume Consumer	2N5060GOS-ND◆	.42	3.29	22.60	46.82	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAOSCT-ND†	.47	3.69	25.24	37.80	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAGOSCT-ND†◆	.40	3.15	21.56	32.29	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061GOS-ND◆	.42	3.29	22.60	46.82	—	—
	100	0.8A	10	0.1	High Volume Consumer	2N5062RLRAGOSCT-ND†◆	.47	3.68	25.19	52.47	2,000	107.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064RLRAGOSCT-ND†◆	.47	3.68	25.19	52.47	2,000	107.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064GOS-ND◆	.42	3.29	22.60	46.82	—	—
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6RLGOSCT-ND†◆	.61	4.28	28.57	51.42	2,000	103.00/M
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6GOS-ND◆	.54	3.83	25.14	45.70	—	—
	400	1.5A	15	0.5	Low-Power Switching	MCR22-6RLRAGOSCT-ND†◆	.52	4.11	28.10	58.53	2,000	119.00/M
	600	1.5A	15	0.5	Low-Power Switching	MCR22-8RL1GOSCT-ND†◆	.56	4.39	30.03	62.56	2,000	127.00/M
TO-92 (B)	40	—	5	0.3	High Volume Consumer	2N6027RLRAGOSCT-ND†◆	.53	4.18	28.60	59.58	2,000	121.00/M
	40	—	5	0.3	High Volume Consumer	2N6027GOS-ND◆	.48	3.74	25.67	53.16	—	—
	40	—	5	0.3	High Volume Consumer	2N6028RLRAGOSCT-ND†◆	.53	4.18	28.60	59.58	2,000	121.00/M
TO-225AA	400	4A	20	0.5	High Volume Consumer	C106DGOS-ND◆	.59	4.97	37.26	80.73	—	—
	600	4A	20	0.5	High Volume Consumer	C106MGOS-ND◆	.59	4.97	37.26	80.73	—	—
SOT-223	200	0.8A	8	0.1	Line-Powered Consumer	MCR08BT1GOSCT-ND†◆	.61	4.92	36.89	79.64	1,000	190.00
D-PAK	400	4A	25	0.5	Industrial and Consumer	MCR716T4GOSCT-ND†◆	1.02	8.83	69.69	151.00	2,500	337.00/M
	600	12A	100	5	Industrial and Consumer	MCR12DSMT4GOSCT-ND†◆	1.09	9.76	77.48	168.59	2,500	402.00/M
	800	12A	100	5	Industrial and Consumer	MCR12DCNT4GOSCT-ND†◆	1.09	9.76	77.48	168.59	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ◆ ***RoHS Compliant***

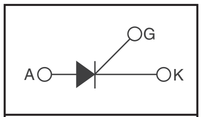

TO-220AB

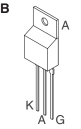

TO-92

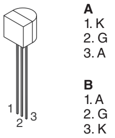

TO-225AA

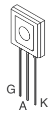

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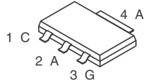

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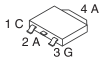

COMCHIP

SMD Diodes Specialist

Diodes

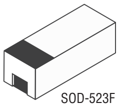

SOD-523F Shown

Comchip Technology is the leading manufacturer to standardize LEAD-FREE and LEAD-LESS diode packaging in SOD-523F and SOD-323F sizes. Comchip's diodes are ideal for personal computers, digital cameras, PDAs, pagers, wireless networking and portable devices.

Small Single Diodes

VR (V)	IO (mA)	Package	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Comchip Part No.
				1	10	100	Qty.	Pricing	
Switching Diodes									
70	215	SOT-23	641-1322-1-ND	.42	2.76	12.00	3,000	32.40/M	BAV99-G
70	215	SOT-23	641-1323-1-ND	.42	2.76	12.00	3,000	32.40/M	BAW56-G
75	150	DO-35	641-1313-1-ND	.26	1.73	7.50	10,000	15.00/M	1N4148T-G
75	150	0503 (1308)	641-1215-1-ND	.57	3.90	18.20	5,000	52.00/M	CDSER4148
75	150	SOD-323F (1005)	641-1004-1-ND	.35	2.40	11.20	4,000	37.60/M	CDSF4148
75	150	SOD-323F (1005)	641-1216-1-ND	.35	2.40	11.20	4,000	37.60/M	CDSFR4148
75	150	0402 (1005)	641-1287-1-ND	.50	3.60	21.20	5,000	72.00/M	CDSQR4148
75	150	SOD-523F (0603)	641-1001-1-ND	.42	2.85	13.30	4,000	44.65/M	CDSU4148
75	150	SOD-523F (0603)	641-1217-1-ND	.42	2.85	13.30	4,000	44.65/M	CDSUR4148
80	100	SOD-323F (1005)	641-1005-1-ND	.35	2.40	11.20	4,000	37.60/M	CDSF355B
80	100	SOD-723	641-1141-1-ND	.40	2.88	16.96	—	—	CDSP400-G
80	100	0402 (1005)	641-1286-1-ND	.50	3.60	21.20	5,000	72.00/M	CDSQR400B
80	100	SOD-523F (0603)	641-1002-1-ND	.35	2.40	11.20	4,000	37.60/M	CDSU101A
80	100	SOD-523F (0603)	641-1003-1-ND	.35	2.40	11.20	4,000	37.60/M	CDSU400B
80	100	SOD-523F (0603)	641-1423-1-ND✔	.39	2.63	12.25	4,000	41.13/M	CDSUR101A
80	125	0402 (1005)	641-1288-1-ND	.50	3.60	21.20	5,000	72.00/M	CDSQR4448
Schottky Diodes									
20	500	SOD-323F (1005)	641-1269-1-ND	.42	3.18	22.80	4,000	102.00/M	CDBF0530
20	500	SOD-323F (1005)	641-1133-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBFR0520
20	500	SOD-523F (0603)	641-1285-1-ND	.42	3.18	22.80	4,000	102.00/M	CDBU0530
20	500	SOD-523F (0603)	641-1332-1-ND	.46	3.22	21.12	4,000	86.40/M	CDBU0520
20	500	SOD-123	641-1326-1-ND	.43	3.11	18.29	3,000	69.00/M	CDBW0520-G
20	1000	DO-214AC (SMA)	641-1014-1-ND	.46	3.15	14.70	5,000	42.00/M	CDBA120-G
20	1000	DO-214AC (SMA)	641-1255-1-ND	.82	6.17	48.51	5,000	209.48/M	CDBA120SL-G
20	1000	DO-214AA (SMB)	641-1105-1-ND	.48	3.35	22.00	—	—	CDBB120-G
20	1000	SOD-123 (MiniSMA)	641-1324-1-ND	.53	3.78	22.26	2,500	84.00/M	CDBM120-G
20	2000	DO-214AA (SMB)	641-1110-1-ND	.56	4.26	30.51	—	—	CDBB220-G
20	2000	DO-214AC (SMA)	641-1095-1-ND	.46	3.50	25.08	—	—	CDBA220-G
20	3000	DO-214AC (SMA)	641-1100-1-ND	.54	4.02	31.58	—	—	CDBA320-G
20	3000	DO-214AA (SMB)	641-1115-1-ND	.67	4.99	39.20	3,000	178.20/M	CDBB320-G
20	3000	DO-214AB (SMC)	641-1120-1-ND	.56	4.20	33.00	—	—	CDBC320-G
20	5000	DO-214AB (SMC)	641-1125-1-ND	.75	5.85	50.16	—	—	CDBC520-G
30	100	0503 (1308)	641-1261-1-ND	.43	3.02	19.80	5,000	76.50/M	CDBER0130L
30	100	0503 (1308)	641-1262-1-ND	.43	3.02	19.80	5,000	76.50/M	CDBER0130R
30	100	SOD-323F (1005)	641-1011-1-ND	.39	2.63	18.20	—	—	CDBF0130
30	100	SOD-323F (1005)	641-1266-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBF0130L
30	100	SOD-323F (1005)	641-1267-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBF0130R
30	100	SOD-723	641-1135-1-ND	.45	3.15	20.68	3,000	84.60/M	CDBP0130L-G
30	100	SOD-723	641-1136-1-ND	.45	3.15	20.68	—	—	CDBP0130R-G
30	100	0402 (1005)	641-1271-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0130L
30	100	0402 (1005)	641-1272-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0130R
30	100	SOD-523F (0603)	641-1007-1-ND	.46	3.33	19.61	4,000	74.00/M	CDBU0130
30	100	SOD-523F (0603)	641-1282-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBU0130L
30	100	SOD-523F (0603)	641-1283-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBU0130R
30	200	SOT-23	641-1321-1-ND	.35	2.40	11.20	3,000	37.60/M	BAT54-G
30	200	SOT-23	641-1319-1-ND	.36	2.48	11.55	3,000	38.78/M	BAT54A-G
30	200	SOT-23	641-1320-1-ND	.36	2.48	11.55	3,000	38.78/M	BAT54C-G
30	200	0503 (1308)	641-1264-1-ND	.43	3.02	19.80	5,000	76.50/M	CDBER0230L
30	200	0503 (1308)	641-1265-1-ND	.43	3.02	19.80	5,000	76.50/M	CDBER0230R
30	200	0503 (1308)	641-1402-1-ND✔	.43	3.02	19.80	5,000	76.50/M	CDBERT0230R
30	200	SOD-323F (1005)	641-1131-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBF0230L
30	200	SOD-323F (1005)	641-1208-1-ND	.46	3.33	19.61	4,000	74.00/M	CDBFR0230L
30	200	SOD-323F (1005)	641-1132-1-ND	.49	3.71	26.60	—	—	CDBFR0230R
30	200	0402 (1005)	641-1278-1-ND	.49	3.71	26.60	5,000	112.00/M	CDBQR42
30	200	0402 (1005)	641-1279-1-ND	.49	3.71	26.60	5,000	112.00/M	CDBQR43
30	200	0402 (1005)	641-1280-1-ND	.49	3.71	26.60	5,000	112.00/M	CDBQR54
30	200	0402 (1005)	641-1275-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0230L
30	200	0402 (1005)	641-1276-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0230R
30	200	SOD-523F (0603)	641-1008-1-ND	.46	3.33	19.61	4,000	74.00/M	CDBU0230
30	200	SOD-523F (0603)	641-1139-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBUR0230L
30	200	SOD-523F (0603)	641-1140-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBUR0230R
40	30	SOD-323F (1005)	641-1010-1-ND	.40	2.88	16.96	4,000	64.00/M	CDBF00340
40	30	0402 (1005)	641-1270-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR00340
40	30	SOD-523F (0603)	641-1006-1-ND	.40	2.88	16.96	4,000	64.00/M	CDBU00340
40	100	0503 (1308)	641-1263-1-ND	.43	3.02	19.80	5,000	76.50/M	CDBER0140L
40	100	0503 (1308)	641-1207-1-ND	.45	3.15	20.68	5,000	79.90/M	CDBER0140R
40	100	SOD-323F (1005)	641-1129-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBFR0140L
40	100	SOD-323F (1005)	641-1130-1-ND	.49	3.71	26.60	—	—	CDBFR0140R
40	100	0402 (1005)	641-1273-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0140L
40	100	0402 (1005)	641-1274-1-ND	.48	3.35	22.00	5,000	85.00/M	CDBQR0140R
40	100	SOD-523F (0603)	641-1137-1-ND	.49	3.71	26.60	4,000	119.00/M	CDBUR0140L
40	100	SOD-523F (0603)	641-1138-1-ND	.49	3.71	26.60	—	—	CDBUR0140R
40	200	SOD-323F (1005)	641-1013-1-ND	.46	3.33	19.61	4,000	74.00/M	CDBF0240
40	200	0402 (1005)	641-1277-1-ND	.49	3.71	26.60	5,000	112.00/M	CDBQR40
40	200	SOD-523F (0603)	641-1009-1-ND	.46	3.33	19.61	4,000	74.00/M	CDBU0240
40	500	SOD-123	641-1327-1-ND	.43	3.06	18.02	3,000	68.00/M	CDBW0540-G
40	1000	DO-214AC (SMA)	641-1015-1-ND	.57	3.90	18.20	5,000	52.00/M	CDBA140-G
40	1000	DO-214AA (SMB)	641-1106-1-ND	.48	3.35	22.00	3,000	90.00/M	CDBB140-G

†Tube §Tray ‡ For Tape and Reel part number, change 1-ND to 2-ND ***✔NEW!***

(Continued)

COMCHIP
SMD Diodes Specialist

Diodes

Small Single Diodes *(Cont.)*

Digi-Reel® RoHS

VR	IO		Digi-Key	Cut Tape Pricing			Tape and Reel‡		Comchip
(V)	(mA)	Package	Part No.	1	10	100	Qty.	Pricing	Part No.
40	1000	SOD-123 (MiniSMA)	641-1325-1-ND	.40	2.88	16.96	2,500	64.00/M	CDBM140-G
40	1000	DO-41	641-1410-1-ND✔	.44	3.15	18.55	5,000	63.00/M	SB140E-G
40	2000	DO-214AC (SMA)	641-1096-1-ND	.49	3.67	26.33	5,000	110.88/M	CDBA240-G
40	2000	DO-214AA (SMB)	641-1111-1-ND	.56	4.26	30.51	3,000	136.51/M	CDBB240-G
40	2000	DO-15	641-1413-1-ND✔	.48	3.35	22.00	4,000	90.00/M	SB240E-G
40	3000	DO-214AC (SMA)	641-1101-1-ND	.54	4.02	31.58	5,000	136.38/M	CDBA340-G
40	3000	DO-214AC (SMA)	641-1258-1-ND	.83	6.44	55.20	5,000	244.72/M	CDBA340L-G
40	3000	DO-214AA (SMB)	641-1116-1-ND	.67	4.99	39.20	3,000	178.20/M	CDBB340-G
40	3000	DO-214AB (SMC)	641-1121-1-ND	.56	4.20	33.00	3,000	150.00/M	CDBC340-G
40	3000	DO-201AD	641-1416-1-ND✔	.49	3.71	26.60	1,200	126.00/M	SB340E-G
40	5000	DO-214AB (SMC)	641-1126-1-ND	.75	5.85	50.16	3,000	234.08/M	CDBC540-G
40	5000	DO-201AD	641-1419-1-ND✔	.50	3.78	29.70	1,200	144.00/M	SB540E-G
45	200	SOD-323F (1005)	641-1268-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBF0245
45	200	SOD-523F (0603)	641-1284-1-ND	.44	3.15	18.55	4,000	70.00/M	CDBU0245
60	1000	DO-214AC (SMA)	641-1092-1-ND	.44	3.17	18.66	5,000	63.36/M	CDBA160-G
60	1000	DO-214AA (SMB)	641-1107-1-ND	.48	3.35	22.00	3,000	90.00/M	CDBB160-G
60	1000	DO-41	641-1411-1-ND✔	.44	3.15	18.55	5,000	63.00/M	SB160E-G
60	2000	DO-214AC (SMA)	641-1097-1-ND	.52	3.91	28.01	5,000	117.92/M	CDBA260-G
60	2000	DO-214AA (SMB)	641-1112-1-ND	.54	4.07	31.94	3,000	145.20/M	CDBB260-G
60	2000	DO-15	641-1414-1-ND✔	.48	3.35	22.00	4,000	90.00/M	SB260E-G
60	3000	DO-214AA (SMB)	641-1117-1-ND	.67	4.99	39.20	3,000	178.20/M	CDBB360-G
60	3000	DO-214AB (SMC)	641-1122-1-ND	.80	6.01	47.19	3,000	214.50/M	CDBC360-G
60	3000	DO-214AC (SMA)	641-1102-1-ND	.71	5.31	41.75	—	—	CDBA360-G
60	3000	DO-201AD	641-1417-1-ND✔	.49	3.71	26.60	1,200	126.00/M	SB360E-G
60	5000	DO-214AB (SMC)	641-1127-1-ND	.81	6.27	53.70	3,000	250.60/M	CDBC560-G
60	5000	DO-201AD	641-1420-1-ND✔	.50	3.78	29.70	1,200	144.00/M	SB560E-G
70	70	SOT-23	641-1318-1-ND	.44	3.00	14.00	3,000	47.00/M	BAS70-G
70	70	0402 (1005)	641-1281-1-ND	.49	3.71	26.60	5,000	112.00/M	CDBQR70
80	1000	DO-214AC (SMA)	641-1093-1-ND	.54	3.83	25.17	—	—	CDBA180-G
80	1000	DO-214AA (SMB)	641-1108-1-ND	.42	3.18	22.80	—	—	CDBB180-G
80	2000	DO-214AC (SMA)	641-1098-1-ND	.54	4.08	29.26	5,000	123.20/M	CDBA280-G
80	2000	DO-214AA (SMB)	641-1113-1-ND	.54	4.07	31.94	3,000	145.20/M	CDBB280-G
80	3000	DO-214AC (SMA)	641-1103-1-ND	.71	5.31	41.75	—	—	CDBA380-G
80	3000	DO-214AA (SMB)	641-1118-1-ND	.77	5.78	45.38	—	—	CDBB380-G
80	3000	DO-214AB (SMC)	641-1123-1-ND	.80	6.01	47.19	—	—	CDBC380-G
80	5000	DO-214AB (SMC)	641-1128-1-ND	.81	6.27	53.70	3,000	250.60/M	CDBC580-G
100	1000	SOD-123 (MiniSMA)	641-1331-1-ND	.55	3.91	25.65	2,500	104.94/M	CDBM1100-G
100	1000	DO-214AC (SMA)	641-1091-1-ND	.55	3.91	25.65	—	—	CDBA1100-G
100	1000	DO-214AA (SMB)	641-1104-1-ND	.42	3.18	22.80	3,000	102.00/M	CDBB1100-G
100	1000	DO-41	641-1412-1-ND✔	.50	3.60	21.20	5,000	72.00/M	SB1100E-G
100	2000	DO-214AC (SMA)	641-1094-1-ND	.60	4.51	32.30	5,000	136.00/M	CDBA2100-G
100	2000	DO-214AA (SMB)	641-1109-1-ND	.62	4.62	36.30	3,000	165.00/M	CDBB2100-G
100	2000	DO-15	641-1415-1-ND✔	.42	3.18	22.80	4,000	102.00/M	SB2100E-G
100	3000	DO-214AC (SMA)	641-1099-1-ND	.75	5.64	44.29	5,000	191.24/M	CDBA3100-G
100	3000	DO-214AA (SMB)	641-1114-1-ND	.77	5.78	45.38	3,000	206.25/M	CDBB3100-G
100	3000	DO-214AB (SMC)	641-1119-1-ND	.80	6.01	47.19	—	—	CDBC3100-G
100	3000	DO-201AD	641-1418-1-ND✔	.50	3.78	29.70	1,200	162.00/M	SB3100E-G
100	5000	DO-214AB (SMC)	641-1124-1-ND	.81	6.27	53.70	3,000	250.60/M	CDBC5100-G
100	5000	DO-201AD	641-1421-1-ND✔	.62	4.62	36.30	1,200	176.00/M	SB5100E-G
General Purpose Rectifier Diodes									
50	1000	DO-41	641-1310-1-ND	.25	1.61	7.00	5,000	16.00/M	1N4001T-G
50	1000	SOD-123 (MiniSMA)	641-1328-1-ND	.41	2.97	17.49	2,500	66.00/M	CGRM4001-G
50	1000	DO-214AC (SMA)	641-1016-1-ND	.42	2.85	13.30	5,000	38.00/M	CGRA4001-G
50	2000	DO-214AA (SMB)	641-1165-1-ND	.45	3.27	19.24	3,000	72.60/M	CGRB201-G
50	3000	DO-214AB (SMC)	641-1171-1-ND	.51	3.79	29.77	—	—	CGRC301-G
50	5000	DO-214AB (SMC)	641-1174-1-ND	.55	4.16	32.67	3,000	148.50/M	CGRC501-G
100	3000	DO-201AD	641-1314-1-ND	.62	4.20	19.60	1,200	75.60/M	1N5401T-G
400	1000	DO-41	641-1311-1-ND	.25	1.61	7.00	5,000	16.00/M	1N4004T-G
400	1000	SOD-123 (MiniSMA)	641-1329-1-ND	.41	2.97	17.49	2,500	66.00/M	CGRM4004-G
400	1000	DO-214AC (SMA)	641-1017-1-ND	.42	2.85	13.30	5,000	38.00/M	CGRA4004-G
400	2000	DO-214AA (SMB)	641-1166-1-ND	.45	3.27	19.24	—	—	CGRB204-G
400	3000	DO-201AD	641-1315-1-ND	.62	4.20	19.60	1,200	75.60/M	1N5404T-G
400	3000	DO-214AA (SMB)	641-1169-1-ND	.54	4.08	29.26	3,000	130.90/M	CGRB304-G
400	3000	DO-214AB (SMC)	641-1172-1-ND	.51	3.79	29.77	—	—	CGRC304-G
400	5000	DO-214AB (SMC)	641-1175-1-ND	.55	4.16	32.67	—	—	CGRC504-G
400	6000	P600	641-1317-1-ND	.55	4.13	29.64	500	87.75	6A4-G
1000	1000	DO41	641-1312-1-ND	.25	1.61	7.00	5,000	16.00/M	1N4007T-G
1000	1000	SOD-123 (MiniSMA)	641-1330-1-ND	.41	2.97	17.49	2,500	66.00/M	CGRM4007-G
1000	1000	DO-214AC (SMA)	641-1018-1-ND	.42	2.85	13.30	5,000	38.00/M	CGRA4007-G
1000	2000	DO-214AA (SMB)	641-1167-1-ND	.45	3.27	19.24	—	—	CGRB207-G
1000	3000	DO-201AD	641-1316-1-ND	.62	4.20	19.60	1,200	75.60/M	1N5408T-G
1000	3000	DO-214AA (SMB)	641-1170-1-ND	.54	4.08	29.26	3,000	130.90/M	CGRB307-G
1000	3000	DO-214AB (SMC)	641-1173-1-ND	.51	3.79	29.77	—	—	CGRC307-G
Fast Recovery Rectifier Diodes									
100	2000	DO-214AC (SMA)	641-1145-1-ND	.51	3.83	30.13	—	—	CEFA202-G
200	1000	DO-214AC (SMA)	641-1142-1-ND	.58	4.37	31.35	—	—	CEFA103-G
200	1000	SOD-123 (MiniSMA)	641-1427-1-ND✔	.48	3.40	20.40	2,500	68.00/M	CFRM103-G
200	2000	DO-214AC (SMA)	641-1146-1-ND	.51	3.83	30.13	—	—	CEFA203-G
200	2000	DO-214AA (SMB)	641-1150-1-ND	.71	5.31	41.75	—	—	CEFB203-G
200	3000	DO-214AB (SMC)	641-1153-1-ND	.84	6.55	56.10	—	—	CEFC303-G
400	1000	DO-214AC (SMA)	641-1143-1-ND	.58	4.37	31.35	—	—	CEFA104-G
400	1000	DO-214AA (SMB)	641-1148-1-ND	.55	4.16	32.67	—	—	CEFB104-G
400	1000	DO-214AC (SMA)	641-1156-1-ND	.52	3.76	22.15	5,000	75.24/M	CFRA104-G
400	2000	DO-214AA (SMB)	641-1151-1-ND	.71	5.31	41.75	—	—	CEFB204-G
400	2000	DO-214AA (SMB)	641-1159-1-ND	.48	3.60	25.84	—	—	CFRB204-G
400	3000	DO-214AB (SMC)	641-1154-1-ND	.84	6.55	56.10	—	—	CEFC304-G
400	3000	DO-214AB (SMC)	641-1162-1-ND	.74	5.54	43.56	—	—	CFRC304-G
600	1000	DO-214AC (SMA)	641-1144-1-ND	.52	3.93	30.86	5,000	133.24/M	CEFA105-G
600	1000	DO-214AC (SMA)	641-1157-1-ND	.52	3.76	22.15	—	—	CFRA105-G
600	2000	DO-214AA (SMB)	641-1160-1-ND	.52	3.92	28.12	—	—	CFRB205-G
600	3000	DO-214AB (SMC)	641-1155-1-ND	.84	6.55	56.10	—	—	CEFC305-G
1000	1000	DO-214AC (SMA)	641-1158-1-ND	.52	3.76	22.15	5,000	75.24/M	CFRA107-G
1000	2000	DO-214AA (SMB)	641-1161-1-ND	.52	3.92	28.12	—	—	CFRB207-G
1000	3000	DO-214AB (SMC)	641-1164-1-ND	.74	5.54	43.56	—	—	CFRC307-G
Super Fast Recovery Rectifier Diodes									
200	1000	DO-214AC (SMA)	641-1177-1-ND	.52	3.96	28.42	—	—	CSFA103-G
200	2000	DO-214AA (SMB)	641-1180-1-ND	.51	3.83	30.13	3,000	136.95/M	CSFB203-G
200	3000	DO-214AB (SMC)	641-1183-1-ND	.69	5.39	46.20	—	—	CSFC303-G
400	1000	DO-214AC (SMA)	641-1178-1-ND	.52	3.96	28.42	—	—	CSFA104-G
400	2000	DO-214AA (SMB)	641-1181-1-ND	.51	3.83	30.13	—	—	CSFB204-G
400	3000	DO-214AB (SMC)	641-1184-1-ND	.69	5.39	46.20	—	—	CSFC304-G
600	1000	DO-214AC (SMA)	641-1179-1-ND	.52	3.96	28.42	5,000	119.68/M	CSFA105-G
600	2000	DO-214AA (SMB)	641-1182-1-ND	.55	4.16	32.67	—	—	CSFB205-G
600	3000	DO-214AB (SMC)	641-1185-1-ND	.69	5.39	46.20	-	—	CSFC305-G
Ultra Fast Recovery Rectifier Diodes									
200	1000	SOD-123 (MiniSMA)	641-1428-1-ND✔	.54	4.31	32.34	2,500	151.90/M	CURM103-G
200	2000	DO-214AA (SMB)	641-1189-1-ND	.53	3.99	31.35	—	—	CURB203-G
200	3000	DO-214AB (SMC)	641-1192-1-ND	.80	6.01	47.19	—	—	CURC303-G
400	1000	DO-214AC (SMA)	641-1187-1-ND	.52	3.92	28.12	—	—	CURA104-G
400	2000	DO-214AA (SMB)	641-1190-1-ND	.53	3.99	31.35	—	—	CURB204-G
400	3000	DO-214AB (SMC)	641-1193-1-ND	.80	6.01	47.19	—	—	CURC304-G
1000	1000	DO-214AC (SMA)	641-1188-1-ND	.52	3.92	28.12	5,000	118.40/M	CURA107-G
1000	3000	DO-214AB (SMC)	641-1194-1-ND	.80	6.01	47.19	3,000	214.50/M	CURC307-G
Bridge Rectifier Diodes									
40	1000	TO-269AA	641-1210-1-ND	1.65	14.01	119.48	2,500	556.20/M	CDBHD140L-G
40	2000	TO-269AA	641-1213-1-ND	1.65	14.01	119.48	2,500	556.20/M	CDBHD240-G
50	800	MBS	641-1333-1-ND✔	.55	3.89	25.52	3,000	104.40/M	BO5S-G
50	1000	DF	641-1337-5-ND†✔	.50	3.78	29.25	—	—	DF005-G
50	1000	DF-S	641-1344-5-ND†✔	.48	3.60	24.48	—	—	DF005S-G
50	2000	RS-2	641-1351-ND§✔	.78	5.88	45.50	—	—	RS201-G
50	5000	RS5	641-1354-ND§✔	1.80	15.60	120.00	—	—	RS501-G
50	10A	KBU	641-1357-ND§✔	1.80	15.60	120.00	—	—	KBU10005-G
50	10A	GBU	641-1366-5-ND†✔	1.43	12.35	95.00	—	—	GBU10005-G
50	10A	MP8	641-1375-ND§✔	1.66	15.60	124.80	—	—	MP10005G-G
50	15A	GBU	641-1369-5-ND†✔	1.69	14.63	112.50	—	—	GBU15005-G
50	25A	KBU	641-1360-ND§✔	1.92	18.00	144.00	—	—	KBU25005-G
50	25A	GBU	641-1372-5-ND†✔	1.76	16.50	132.00	—	—	GBU25005-G
50	35A	KBU	641-1363-ND§✔	2.24	21.00	168.00	—	—	KBU35005-G
60	1000	TO-269AA	641-1211-1-ND	1.65	14.01	119.48	2,500	576.80/M	CDBHD160L-G
60	2000	TO-269AA	641-1214-1-ND	1.65	14.01	119.48	2,500	556.20/M	CDBHD260-G
100	1000	TO-269AA	641-1209-1-ND	1.65	14.01	119.48	2,500	556.20/M	CDBHD1100L-G
100	2000	TO-269AA	641-1212-1-ND	1.65	14.01	119.48	2,500	556.20/M	CDBHD2100-G
400	800	MBS	641-1334-1-ND✔	.55	3.89	25.52	3,000	104.40/M	B4S-G
400	1000	DF	641-1338-5-ND†✔	.56	4.20	32.50	—	—	DF04-G
400	1000	DF-S	641-1345-5-ND†✔	.48	3.60	24.48	—	—	DF04S-G
400	2000	DF	641-1341-5-ND†✔	.76	5.67	43.88	—	—	DF204-G
400	2000	DF-S	641-1348-5-ND†✔	.68	5.25	40.50	—	—	DF204S-G
400	2000	RS-2	641-1352-ND§✔	.78	5.88	45.50	—	—	RS204-G
400	5000	RS5	641-1355-ND§✔	1.80	15.60	120.00	—	—	RS504-G
400	10A	KBU	641-1358-ND§✔	1.80	15.60	120.00	—	—	KBU1004-G
400	10A	GBU	641-1367-5-ND†✔	1.43	12.35	95.00	—	—	GBU1004-G
400	10A	MP8	641-1376-ND§✔	1.66	15.60	124.80	—	—	MP1004G-G
400	15A	GBU	641-1370-5-ND†✔	1.69	14.63	112.50	—	—	GBU1504-G
400	25A	KBU	641-1361-ND§✔	1.92	18.00	144.00	—	—	KBU2504-G
400	25A	GBU	641-1373-5-ND†✔	1.76	16.50	132.00	—	—	GBU2504-G
400	35A	KBU	641-1364-ND§✔	2.40	22.50	180.00	—	—	KBU3504-G
600	800	MBS	641-1335-1-ND✔	.55	3.89	25.52	3,000	104.40/M	B6S-G
600	1000	DF	641-1339-5-ND†✔	.56	4.20	32.50	—	—	DF06-G
600	1000	DF-S	641-1346-5-ND†✔	.49	3.71	25.20	—	—	DF06S-G
600	2000	DF	641-1342-5-ND†✔	.76	5.67	43.88	—	—	DF206-G
600	2000	DF-S	641-1349-5-ND†✔	.68	5.25	40.50	—	—	DF206S-G
600	2000	DF-S	641-1425-1-ND✔	.68	5.25	45.00	1,000	232.50	DF206ST-G
600	35A	GBPC	641-1378-ND§✔	2.62	24.60	196.80	—	—	GBPC3506-G
600	35A	GBPCW	641-1384-ND§✔	2.82	26.40	211.20	—	—	GBPC3506W-G
600	50A	GBPC	641-1381-ND§✔	3.75	34.38	262.50	—	—	GBPC5006-G
600	50A	GBPCW	641-1387-ND§✔	3.75	34.38	262.50	—	—	GBPC5006W-G
800	35A	GBPC	641-1379-ND§✔	2.62	24.60	196.80	—	—	GBPC3508-G
800	35A	GBPCW	641-1385-ND§✔	2.82	26.40	211.20	—	—	GBPC3508W-G
800	35A	SCVB	641-1390-ND§✔	12.96	120.00	912.00	—	—	SC35VB80-G
800	50A	GBPC	641-1382-ND§✔	3.75	34.38	262.50	—	—	GBPC5008-G
800	50A	GBPCW	641-1388-ND§✔	3.75	34.38	262.50	—	—	GBPC5008W-G
800	50A	SCVB	641-1392-ND§✔	13.75	123.75	962.50	—	—	SC50VB80-G
1000	800	MBS	641-1336-1-ND✔	.55	3.89	25.52	3,000	104.40/M	B10S-G
1000	1000	DF	641-1340-5-ND†✔	.56	4.20	32.50	—	—	DF10-G
1000	1000	DF-S	641-1347-5-ND†✔	.67	5.04	39.00	—	—	DF10S-G
1000	2000	DF	641-1343-5-ND†✔	.76	5.67	43.88	—	—	DF210-G
1000	2000	DF-S	641-1350-5-ND†✔	.72	5.60	43.20	—	—	DF210S-G
1000	2000	RS-2	641-1353-ND§✔	.78	5.88	45.50	—	—	RS207-G
1000	3000	GBU	641-1424-5-ND†✔	.98	8.45	65.00	—	—	GBU4M-G
1000	5000	RS5	641-1356-ND§✔	1.60	15.00	120.00	—	—	RS507-G
1000	10A	KBU	641-1359-ND§✔	1.80	15.60	120.00	—	—	KBU1010-G
1000	10A	GBU	641-1368-5-ND†✔	1.43	12.35	95.00	—	—	GBU1010-G
1000	10A	MP8	641-1377-ND§✔	1.70	15.90	127.20	—	—	MP1010G-G
1000	15A	GBU	641-1371-5-ND†✔	1.69	14.63	112.50	—	—	GBU1510-G
1000	25A	KBU	641-1362-ND§✔	1.98	18.60	148.80	—	—	KBU2510-G
1000	25A	GBU	641-1374-5-ND†✔	1.86	17.40	139.20	—	—	GBU2510-G
1000	35A	KBU	641-1365-ND§✔	2.40	22.50	180.00	—	—	KBU3510-G
1000	35A	GBPC	641-1380-ND§✔	2.62	24.60	196.80	—	—	GBPC3510-G
1000	35A	GBPCW	641-1386-ND§✔	2.82	26.40	211.20	—	—	GBPC3510W-G
1000	50A	GBPC	641-1383-ND§✔	3.75	34.38	262.50	—	—	GBPC5010-G
1000	50A	GBPCW	641-1389-ND§✔	3.75	34.38	262.50	—	—	GBPC5010W-G
1600	35A	SCVB	641-1391-ND§✔	13.75	123.75	962.50	—	—	SC35VB160-G
1600	50A	SCVB	641-1393-ND§✔	19.50	175.50	1365.00	—	—	SC50VB160-G

†Tube §Tray ‡ For Tape and Reel part number, change 1-ND to 2-ND ***✔NEW!***

NEW! Kit

641-1426-ND (ZENER-KIT) Kit contains 10 each of 30 values (300 total pieces) **$40.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Diodes Specialist

Zener Diodes

Voltage (Typical)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Comchip Part No.
		1	10	100	Qty.	Pricing	
150 mWatts — SOD-523F (0603)							
2.0	641-1019-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRU52C2
2.2	641-1020-1-ND	.53	3.78	22.26	—	—	CZRU52C2V2
2.4	641-1021-1-ND	.53	3.78	22.26	—	—	CZRU52C2V4
2.7	641-1022-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRU52C2V7
3.0	641-1023-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRU52C3
3.3	641-1024-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRU52C3V3
3.6	641-1025-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C3V6
3.9	641-1026-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C3V9
4.3	641-1027-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C4V3
4.7	641-1028-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C4V7
5.1	641-1029-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C5V1
5.6	641-1030-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C5V6
6.2	641-1031-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C6V2
6.8	641-1032-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C6V8
7.5	641-1033-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C7V5
8.2	641-1034-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C8V2
9.1	641-1035-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C9V1
10.0	641-1036-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C10
11.0	641-1037-1-ND	.46	3.33	19.61	—	—	CZRU52C11
12.0	641-1038-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C12
13.0	641-1039-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C13
15.0	641-1040-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C15
18.0	641-1042-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C18
20.0	641-1043-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C20
22.0	641-1044-1-ND	.39	2.63	18.20	—	—	CZRU52C22
24.0	641-1045-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRU52C24
27.0	641-1046-1-ND	.44	3.15	18.55	4,000	70.00/M	CZRU52C27
30.0	641-1047-1-ND	.39	2.63	18.20	—	—	CZRU52C30
36.0	641-1049-1-ND	.39	2.63	18.20	—	—	CZRU52C36
150 mWatts — 0503							
2.0	641-1306-1-ND	.43	3.02	19.80	5,000	76.50/M	CZRER52C2
2.2	641-1307-1-ND	.43	3.02	19.80	5,000	76.50/M	CZRER52C2V2
2.4	641-1308-1-ND	.43	3.02	19.80	5,000	76.50/M	CZRER52C2V4
2.7	641-1309-1-ND	.43	3.02	19.80	5,000	76.50/M	CZRER52C2V7
3.0	641-1230-1-ND	.52	3.69	24.20	5,000	93.50/M	CZRER52C3
3.3	641-1231-1-ND	.52	3.69	24.20	5,000	93.50/M	CZRER52C3V3
3.6	641-1232-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C3V6
5.1	641-1259-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C5V1
5.6	641-1260-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C5V6
11.0	641-1224-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C11
12.0	641-1225-1-ND	.45	3.15	20.68	4,000	79.90/M	CZRER52C12
13.0	641-1226-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C13
22.0	641-1227-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C22
24.0	641-1228-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C24
27.0	641-1229-1-ND	.45	3.15	20.68	5,000	79.90/M	CZRER52C27
200 mWatts — SOD-323F (1005)							
2.0	641-1051-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRF52C2
2.2	641-1052-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRF52C2V2
2.4	641-1053-1-ND	.44	3.00	20.80	—	—	CZRF52C2V4
2.7	641-1054-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRF52C2V7
3.0	641-1055-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRF52C3
3.3	641-1056-1-ND	.53	3.78	22.26	4,000	84.00/M	CZRF52C3V3
3.6	641-1057-1-ND	.39	2.63	18.20	—	—	CZRF52C3V6
3.9	641-1058-1-ND	.39	2.63	18.20	—	—	CZRF52C3V9
4.3	641-1059-1-ND	.39	2.63	18.20	—	—	CZRF52C4V3
4.7	641-1060-1-ND	.39	2.63	18.20	—	—	CZRF52C4V7
5.1	641-1061-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRF52C5V1
5.6	641-1062-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRF52C5V6
6.2	641-1063-1-ND	.39	2.63	18.20	—	—	CZRF52C6V2
6.8	641-1064-1-ND	.39	2.63	18.20	—	—	CZRF52C6V8
7.5	641-1065-1-ND	.39	2.63	18.20	—	—	CZRF52C7V5
8.2	641-1066-1-ND	.39	2.63	18.20	—	—	CZRF52C8V2
9.1	641-1067-1-ND	.46	3.33	19.61	—	—	CZRF52C9V1
10.0	641-1068-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRF52C10
11.0	641-1069-1-ND	.39	2.63	18.20	—	—	CZRF52C11
12.0	641-1070-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRF52C12
13.0	641-1071-1-ND	.39	2.63	18.20	—	—	CZRF52C13
15.0	641-1072-1-ND	.46	3.33	19.61	4,000	74.00/M	CZRF52C15
20.0	641-1075-1-ND	.39	2.63	18.20	—	—	CZRF52C20
27.0	641-1078-1-ND	.39	2.63	18.20	—	—	CZRF52C27
30.0	641-1079-1-ND	.39	2.63	18.20	—	—	CZRF52C30
33.0	641-1080-1-ND	.39	2.63	18.20	—	—	CZRF52C33
39.0	641-1082-1-ND	.39	2.63	18.20	—	—	CZRF52C39

‡ For Tape and Reel part number, change 1-ND to 2-ND.

ESD Transient Voltage Suppressors

Fig. 1

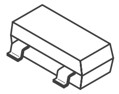

Fig. 2

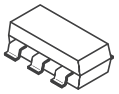

Fig. 3

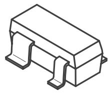

Fig. 4

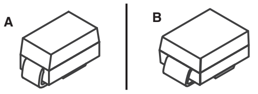

Fig. 5

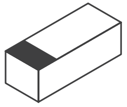

Fig. 6

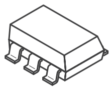

Fig.	Voltage	Package	No. of Channels	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Comchip Part No.
					1	10	100		Qty.	Pricing	
Bidirectional											
1	5	SOT23-3	2	641-1198-1-ND	.64	4.83	37.95	641-1198-2-ND	3,000	172.50/M	CEAS035V0-G
	5	SOT-523	2	641-1291-1-ND	.62	4.62	36.30	641-1291-2-ND	3,000	165.00/M	CPDH3-5V0U
	5	SOT-23-3	2	641-1297-1-ND	.56	4.20	33.00	641-1297-2-ND	3,000	150.00/M	CPDT-5V0
	5	SOT-23	4	641-1298-1-ND	.56	4.20	33.00	641-1298-2-ND	3,000	150.00/M	CPDT-5V0U
	5	SOT-323	2	641-1300-1-ND	.56	4.20	33.00	641-1300-2-ND	3,000	150.00/M	CPDV3-5V0U
	12	SOT23-3	2	641-1206-1-ND	.93	7.25	62.10	641-1206-2-ND	3,000	289.80/M	CTES0312V-G
2	24	SOT23-6	5	641-1199-1-ND	.78	6.04	51.75	—	—	—	CECS0624V-G
	5	SOT23-6	5	641-1200-1-ND	.78	6.04	51.75	—	—	—	CECS065V0-G
	5	SOT-553	4	641-1292-1-ND	.67	5.04	39.60	641-1292-2-ND	3,000	180.00/M	CPDH5-5V0U
	5	SOT-563	5	641-1293-1-ND	.67	5.04	39.60	641-1293-2-ND	3,000	180.00/M	CPDH6-5V0U
	5	SOT-23-6	5	641-1299-1-ND	.56	4.20	33.00	641-1299-2-ND	3,000	150.00/M	CPDT6-5V0U
	5	SOT-363	5	641-1302-1-ND	.62	4.62	36.30	641-1302-2-ND	3,000	165.00/M	CPDV6-5V0U
	5	SC70-6L	4	641-1305-1-ND	1.00	8.50	72.50	641-1305-2-ND	3,000	337.50/M	CSRV065V0P
	24	SOT23-6	4	641-1204-1-ND	1.29	10.95	93.38	641-1204-2-ND	3,000	434.70/M	CTDS0624V-G
	5	SOT23-6	4	641-1205-1-ND	1.29	10.95	93.38	641-1205-2-ND	3,000	434.70/M	CTDS065V0-G
3	5	SOT-143	4	641-1202-1-ND	.78	6.04	51.75	641-1202-2-ND	3,000	241.50/M	CEGS145V0-G
	5	SOT-143	1	641-1203-1-ND	2.59	22.77	193.20	641-1203-2-ND	3,000	897.00/M	CLCS145V0-G
	5	SOT-143	2	641-1304-1-ND	1.20	10.20	87.00	641-1304-2-ND	3,000	405.00/M	CSRS045V0P
4A	5	DO-214AC (SMA)	1	641-1241-1-ND	.48	3.42	22.44	641-1241-2-ND	5,000	86.70/M	TV04A5V0JB-G
	6	DO-214AC (SMA)	1	641-1242-1-ND	.48	3.42	22.44	641-1242-2-ND	5,000	86.70/M	TV04A6V0JB-G
	10	DO-214AC (SMA)	1	641-1233-1-ND	.48	3.42	22.44	641-1233-2-ND	5,000	86.70/M	TV04A100JB-G
	11	DO-214AC (SMA)	1	641-1234-1-ND	.48	3.35	22.00	641-1234-2-ND	5,000	85.00/M	TV04A110JB-G
	12	DO-214AC (SMA)	1	641-1235-1-ND	.48	3.35	22.00	641-1235-2-ND	5,000	85.00/M	TV04A120JB-G
	22	DO-214AC (SMA)	1	641-1239-1-ND	.48	3.35	22.00	641-1239-2-ND	5,000	85.00/M	TV04A220JB-G
	24	DO-214AC (SMA)	1	641-1240-1-ND	.48	3.35	22.00	641-1240-2-ND	5,000	85.00/M	TV04A240JB-G
	120	DO-214AC (SMA)	1	641-1236-1-ND	.48	3.35	22.00	641-1236-2-ND	5,000	85.00/M	TV04A121JB-G
	130	DO-214AC (SMA)	1	641-1237-1-ND	.48	3.35	22.00	641-1237-2-ND	5,000	85.00/M	TV04A131JB-G
	150	DO-214AC (SMA)	1	641-1238-1-ND	.48	3.35	22.00	641-1238-2-ND	5,000	85.00/M	TV04A151JB-G
4B	5	DO-214AA (SMB)	1	641-1252-1-ND	.52	3.92	28.12	641-1252-2-ND	3,000	125.80/M	TV06B5V0JB-G
	6	DO-214AA (SMB)	1	641-1253-1-ND	.52	3.92	28.12	641-1253-2-ND	3,000	125.80/M	TV06B6V0JB-G
	6.5	DO-214AA (SMB)	1	641-1254-1-ND	.52	3.92	28.12	641-1254-2-ND	3,000	125.80/M	TV06B6V5JB-G
	11	DO-214AA (SMB)	1	641-1243-1-ND	.52	3.92	28.12	641-1243-2-ND	3,000	125.80/M	TV06B110JB-G
	12	DO-214AA (SMB)	1	641-1245-1-ND	.52	3.92	28.12	641-1245-2-ND	3,000	125.80/M	TV06B120JB-G
	13	DO-214AA (SMB)	1	641-1247-1-ND	.52	3.92	28.12	641-1247-2-ND	3,000	125.80/M	TV06B130JB-G
	22	DO-214AA (SMB)	1	641-1249-1-ND	.52	3.92	28.12	641-1249-2-ND	3,000	125.80/M	TV06B220JB-G
	24	DO-214AA (SMB)	1	641-1250-1-ND	.52	3.92	28.12	641-1250-2-ND	3,000	125.80/M	TV06B240JB-G
	26	DO-214AA (SMB)	1	641-1251-1-ND	.52	3.92	28.12	641-1251-2-ND	3,000	125.80/M	TV06B260JB-G
	110	DO-214AA (SMB)	1	641-1244-1-ND	.52	3.92	28.12	641-1244-2-ND	3,000	125.80/M	TV06B111JB-G
	120	DO-214AA (SMB)	1	641-1246-1-ND	.52	3.92	28.12	641-1246-2-ND	3,000	125.80/M	TV06B121JB-G
	130	DO-214AA (SMB)	1	641-1248-1-ND	.52	3.92	28.12	641-1248-2-ND	3,000	125.80/M	TV06B131JB-G

(Continued)

ESD Transient Voltage Suppressors *(Cont.)*

Fig.	Voltage	Package	No. of Channels	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Comchip Part No.
5	5	0402	2	641-1294-1-ND	.53	3.99	31.35	641-1294-2-ND	5,000	135.38/M	CPDQR5V0
	12	0603	1	641-1256-1-ND	.62	4.72	33.82	641-1256-2-ND	4,000	151.30/M	CPDUR12V
	24	0603	1	641-1257-1-ND	.48	3.60	25.84	641-1257-2-ND	4,000	115.60/M	CPDUR24V
6	3.3	SOT-353	4	641-1422-1-ND ***NEW!***	.54	4.07	32.01	641-1422-2-ND ***NEW!***	3,000	145.50/M	CPDV5-3V3UP
	5	SOT-23-5	4	641-1296-1-ND	.56	4.20	33.00	641-1296-2-ND	3,000	150.00/M	CPDT5-5V0U
	5	SOT-353	4	641-1301-1-ND	.62	4.62	36.30	641-1301-2-ND	3,000	165.00/M	CPDV5-5V0U
Unidirectional											
5	5	0503	1	641-1289-1-ND	.56	4.24	30.40	641-1289-2-ND	5,000	128.00/M	CPDER5V0U
	5	1005	1	641-1290-1-ND	.42	3.18	22.80	641-1290-2-ND	4,000	102.00/M	CPDF5V0U
	5	0402	1	641-1295-1-ND	.50	3.78	29.70	641-1295-2-ND	5,000	128.25/M	CPDQR5V0U
	5	0603	1	641-1303-1-ND	.42	3.18	22.80	641-1303-2-ND	4,000	102.00/M	CPDU5V0U

ESDTVS-KIT-ND TVS Kit 20 each of 28 values, 560 total pieces **$196.25**

ESD Suppressors

Fig. 1

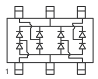

Fig. 2

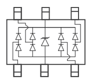

Fig. 3 ***NEW!***

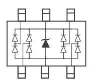

Fig. 4 ***NEW!***

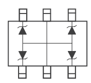

Fig. 5

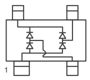

Fig. 6

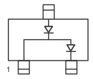

Fig. 7

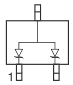

Fig. 8 ***NEW!***

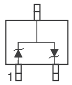

Fig. 9 ***NEW!***

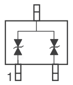

Fig. 10 ***NEW!***

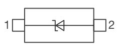

Fig. 11 ***NEW!***

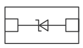

Fig. 12

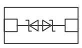

Fig. 13

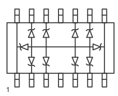

Fig. 14

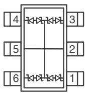

Fig. 15

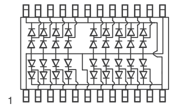

Fig. 16

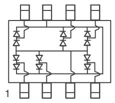

Fig. 17 ***NEW!***

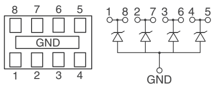

Fig.	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Comchip Part No.
1	SOT23-6	641-1083-1-ND	.71	5.53	47.40	3,000	221.20/M	CDA3S06-G
2	SOT23-6	641-1222-1-ND	1.01	8.57	73.08	3,000	340.20/M	CSRS065V0-G
3	SOT23-6	641-1394-1-ND ***NEW!***	1.01	8.57	73.08	3,000	340.20/M	CSRS065V0P
4	SOT23-6	641-1396-1-ND ***NEW!***	.67	5.04	39.60	3,000	180.00/M	CPDT6-5V4U
5	SOT-143	641-1084-1-ND	.68	5.40	40.50	—	—	CDA4S14-G
6	SOT-23	641-1085-1-ND	.77	5.75	45.21	3,000	205.50/M	CDA8S03-G
7	SOT-23	641-1223-1-ND	.85	6.62	56.70	3,000	264.60/M	CTES033V3-G
8	SOT-23	641-1397-1-ND ***NEW!***	.56	4.24	30.40	3,000	136.00/M	CPDT-5V0SR
9	SOT-23	641-1398-1-ND ***NEW!***	.56	4.24	30.40	3,000	136.00/M	CPDT-12V
9	SOT-23	641-1399-1-ND ***NEW!***	.56	4.24	30.40	3,000	136.00/M	CPDT-24V
10	SOD-523	641-1395-1-ND ***NEW!***	.67	5.04	39.60	3,000	180.00/M	CPDH3V3UP
11	0402 (1005)	641-1408-1-ND ***NEW!***	.50	3.78	29.70	5,000	128.25/M	CPDQR12V0U
11	0503 (1308)	641-1403-1-ND ***NEW!***	.62	4.72	33.82	5,000	142.40/M	CPDERT5V0U
11	0503 (1308)	641-1407-1-ND ***NEW!***	.62	4.72	33.82	5,000	142.40/M	CPDER12V0U
11	1005 (2512)	641-1405-1-ND ***NEW!***	.48	3.60	25.84	4,000	115.60/M	CPDF12V0U
11	SOD-523F (0603)	641-1406-1-ND ***NEW!***	.62	4.72	33.82	4,000	151.30/M	CPDU12V0U
12	0402 (1005)	641-1409-1-ND ***NEW!***	.53	3.99	31.35	5,000	135.38/M	CPDQR12V
12	0503 (1308)	641-1404-1-ND ***NEW!***	.62	4.72	33.82	5,000	142.40/M	CPDERT5V0
12	0503 (1308)	641-1218-1-ND	.62	4.72	33.82	5,000	142.40/M	CPDER5V0
12	1005 (2512)	641-1219-1-ND	.48	3.60	25.84	4,000	115.60/M	CPDFR5V0
12	SOD-523F (0603)	641-1220-1-ND	.48	3.60	25.84	4,000	115.60/M	CPDUR5V0
12	SOD-523F (0603)	641-1088-1-ND	.48	3.60	25.84	4,000	115.60/M	CPDU5V0
12	SOD-523F (0603)	641-1089-1-ND	.48	3.60	25.84	4,000	115.60/M	CPDU24V
13	14SOIC	641-1090-1-ND	.98	8.45	65.00	—	—	CTAN1424V-G
14	SOT23-6	641-1086-1-ND	.76	5.67	44.55	3,000	202.50/M	CEBS065V0-G
15	24-QSOP	641-1195-1-ND	3.50	31.00	240.00	2,500	1280.00/M	CDA5Q24-G
16	8-SOIC	641-1196-1-ND	2.81	24.75	210.00	2,500	975.00/M	CDA6N08-G
17	SOT-383F (VR8)	641-1400-1-ND ***NEW!***	1.12	9.52	81.20	3,000	378.00/M	CPDVR083V3U
17	SOT-383F (VR8)	641-1401-1-ND ***NEW!***	1.12	9.52	81.20	3,000	378.00/M	CPDVR085V0U

‡ For Tape and Reel part number, change 1-ND to 2-ND.

SiC Schottky Diodes

TO-220-2

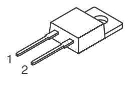

TO-252-2 (DPAK)

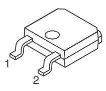

TO-263-2 (D2PAK)

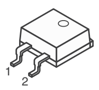

TO-247-3

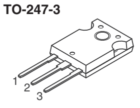

Fig. 1

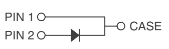

Fig. 2

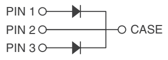

Fig.	Package	VRRM (V)	IF(AV) (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	50	100
1	TO-220-2	600	1	21.4	CSD01060A-ND	.93	.89	.85
	TO-220-2	600	2	39.5	C3D02060A-ND ***NEW!***	1.87	1.79	1.70
	TO-220-2	600	3	60	C3D03060A-ND ***NEW!***	2.80	2.68	2.55
	TO-220-2	600	4	75	C3D04060A-ND ***NEW!***	3.73	3.56	3.39
	TO-220-2	600	6	79	C3D06060A-ND ***NEW!***	5.59	5.34	5.08

Fig.	Package	VRRM (V)	IF(AV) (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	50	100
1	TO-220-2	600	8	100	C3D08060A-ND ***NEW!***	7.46	7.12	6.79
	TO-220-2	600	10	136.3	CSD10060A-ND	9.32	8.89	8.47
	TO-220-2	600	10	136.3	C3D10060A-ND ***NEW!***	9.32	8.89	8.47
	TO-220-2	1,200	5	136	C2D05120A-ND	9.32	8.89	8.47
	TO-220-2	1,200	10	312	C2D10120A-ND	18.63	17.79	16.94
	TO-252-2 (DPAK)	600	1	21.4	CSD01060E-ND	.93	.89	.85
		600	2	39.5	C3D02060E-ND ***NEW!***	1.87	1.79	1.70
		600	3	60	C3D03060E-ND ***NEW!***	2.80	2.68	2.55
		600	4	75	C3D04060E-ND ***NEW!***	3.73	3.56	3.39
	TO-263-2 (D2PAK)	600	6	79	C3D06060G-ND ***NEW!***	5.59	5.34	5.08
		600	8	100	C3D08060G-ND ***NEW!***	7.46	7.12	6.79
		600	10	136.3	C3D10060G-ND ***NEW!***	9.32	8.89	8.47
2	TO-247-3	600	20	136.3	C3D20060D-ND ***NEW!***	18.63	17.79	16.94
	TO-247-3	1,200	20	138	C2D10120D-ND	18.63	17.79	16.94
	TO-247-3	1,200	22	312	C2D20120D-ND	37.27	35.57	33.88

Transistors and MOSFETs

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 1 — SOT-323, SOT-23, SOT-523, SC-59

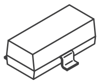

Fig. 2 — SOT-223

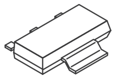

Fig. 3 — SOT-89, SOT89-3

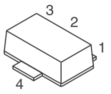

Fig. 4 — SOT-26, SOT-363

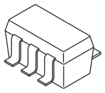

Fig. 5 — SOT-563

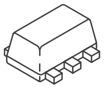

Fig. 6 — DFN1310H4-6

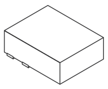

Fig. 7 — DFN1006-3, DFN1006H4-3

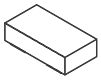

Fig. 8 — DFN1411-3

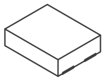

Fig. 9 — DFN2020B-6

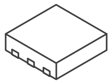

Fig. 10 — DFN3020B-8

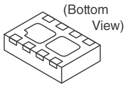

Fig. 11 — SO-8, SOP-8, 8-SOIC, SOP-8L

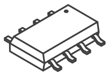

Fig. 12 — DPAK, TO-252 *NEW!*

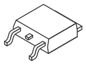

Fig. 13 — DFN-8 *NEW!*

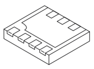

Fig. 14 — DFN-3 *NEW!*

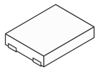

Fig. 15 — 8-TSSOP *NEW!*

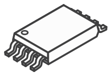

Fig. 16 — SOT-963 *NEW!*

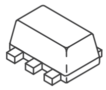

Transistors

Fig.	VCEO (V)	IC (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
NPN SOT-323								
1	12	1,500	270	2DD2652DICT-ND	.42	3.00	3,000	60.00/M
	25	200	60	MMST4124DICT-ND	.40	3.17	—	—
	25	200	60	MMST4124-FDICT-ND◆	.42	3.00	3,000	60.00/M
	30	1,000	270	2DD2656DICT-ND	.42	3.00	3,000	60.00/M
	30	300	10K	MMSTA13DICT-ND	.42	3.40	—	—
	30	300	10K	MMSTA13-FDICT-ND◆	.56	4.00	3,000	80.00/M
	30	300	20K	MMSTA14DICT-ND	.42	3.40	—	—
	30	300	20K	MMSTA14-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40	1,000	200	DSS4140UDICT-ND◆ ***NEW!***	.56	4.00	3,000	80.00/M
	40	600	35	MMST2222A-FDICT-ND◆	.50	3.40	3,000	47.00/M
	40	200	30	MMST3904-FDICT-ND◆	.50	3.40	3,000	47.00/M
	40	600	20	MMST4401-FDICT-ND◆	.50	3.40	3,000	47.00/M
	40	500	14K	MMST6427-FDICT-ND◆	.56	4.00	3,000	80.00/M
	45	500	60	BC817-16WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	500	100	BC817-25WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	500	170	BC817-40WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	100	110	BC847AW-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	45	100	200	BC847BW-FDICT-ND◆	.46	2.99	3,000	35.00/M
	45	100	420	BC847CW-FDICT-ND◆	.46	2.99	3,000	35.00/M
	60	1,000	100	DSS4160UDICT-ND◆ ***NEW!***	.56	4.00	3,000	80.00/M
	60	500	100	MMSTA05DICT-ND	.42	3.40	—	—
	60	500	100	MMSTA05-FDICT-ND◆	.56	4.00	3,000	80.00/M
	65	100	110	BC846AW-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	65	100	200	BC846BW-FDICT-ND◆	.46	2.99	3,000	35.00/M
	80	500	100	MMSTA06DICT-ND	.42	3.40	—	—
	80	500	100	MMSTA06-FDICT-ND◆	.56	4.00	3,000	80.00/M
	160	200	30	MMST5551DICT-ND	.40	3.17	—	—
	160	200	30	MMST5551-FDICT-ND◆	.42	3.00	3,000	60.00/M
	300	200	25	MMSTA42-FDICT-ND◆	.56	4.00	3,000	80.00/M
NPN SOT-23								
1	18	1,000	150	MMBT123SDICT-ND	.37	2.93	—	—
	18	1,000	150	MMBT123S-FDICT-ND◆	.63	4.25	3,000	58.75/M
	20	2,000	200	DSS20201LDICT-ND	.56	4.00	3,000	80.00/M
	20	2,000	150	DSS4320TDICT-ND	.56	4.00	3,000	80.00/M
	20	2,000	220	DNLS320ADICT-ND◆	.54	4.28	3,000	124.00/M
	25	50	30	MMBTH10DICT-ND	.50	3.90	—	—
	25	50	30	MMBTH10-FDICT-ND◆	.50	3.40	3,000	47.00/M
	25	200	60	MMBT4124-FDICT-ND◆	.42	2.76	3,000	32.40/M
	30	100	420	BC848C-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	30	100	10K	MMBTA13-FDICT-ND◆	.40	2.72	3,000	37.60/M
	30	100	20K	MMBTA14-FDICT-ND◆	.40	2.72	3,000	37.60/M
	40	50	60	MMBTH24DICT-ND	.50	3.90	—	—
	40	50	60	MMBTH24-FDICT-ND◆	.50	3.40	3,000	47.00/M
	40	2,000	150	DSS4240TDICT-ND	.56	4.00	3,000	80.00/M
	40	600	100	MMBT2222A-FDICT-ND◆	.32	2.07	3,000	24.30/M
	40	200	100	MMBT3904-FDICT-ND◆	.28	1.84	3,000	21.60/M
	40	600	100	MMBT4401-FDICT-ND◆	.32	2.07	3,000	24.30/M
	40	500	10K	MMBT6427DICT-ND	.53	3.72	—	—
	40	500	10K	MMBT6427-FDICT-ND◆	.45	3.06	3,000	42.30/M
	45	100	110	BC847A-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	45	100	200	BC847B-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	45	800	100	BC817-16-FDICT-ND◆	.38	2.55	3,000	35.25/M
	45	800	100	BC817-25-FDICT-ND◆	.38	2.55	3,000	35.25/M
	45	800	170	BC817-40-FDICT-ND◆	.38	2.55	3,000	35.25/M
	45	100	420	BC847C-FDICT-ND◆	.46	2.99	3,000	35.00/M
	60	1,000	100	DNBT8105DICT-ND◆	.63	4.25	3,000	59.00/M
	60	1,000	250	DNLS160DICT-ND◆	.57	4.05	3,000	97.00/M
	60	100	50	MMBTA05-FDICT-ND◆	.50	3.40	3,000	47.00/M
	65	100	110	BC846A-7-FDICT-ND◆ ***NEW!***	.42	2.76	3,000	32.00/M
	65	100	200	BC846B-FDICT-ND◆	.46	2.99	3,000	35.00/M
	80	100	50	MMBTA06-FDICT-ND◆	.40	2.72	3,000	37.60/M
	80	500	80	MMBTA28DICT-ND	.53	3.72	—	—
	80	500	80	MMBTA28-FDICT-ND◆	.49	3.50	3,000	70.00/M
	160	200	30	MMBT5551-FDICT-ND◆	.43	2.89	3,000	40.00/M
	300	200	25	MMBTA42-FDICT-ND◆	.40	2.72	3,000	37.60/M
	350	500	30	DN350T05DICT-ND◆	.50	3.60	3,000	72.00/M

Fig.	VCEO (V)	IC (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
NPN SOT-523								
1	40	600	35	MMBT2222ATDICT-ND	.42	2.99	—	—
	40	600	35	MMBT2222AT-FDICT-ND◆	.42	3.00	3,000	60.00/M
	40	200	30	MMBT3904T-FDICT-ND◆	.45	3.06	3,000	42.30/M
	40	600	20	MMBT4401T-FDICT-ND◆	.50	3.40	3,000	47.00/M
	45	100	200	BC847BT-FDICT-ND◆	.40	2.72	3,000	37.60/M
	45	100	420	BC847CT-7-FDICT-ND◆ ***NEW!***	.42	3.00	3,000	60.00/M
	50	100	110	BC847ATDICT-ND	.36	2.56	—	—
	50	100	110	BC847AT-FDICT-ND◆	.40	2.72	3,000	37.60/M
	50	150	120	2DC4617QDICT-ND	.41	2.88	—	—
	50	150	120	2DC4617Q-FDICT-ND◆	.50	3.60	3,000	72.00/M
	50	150	180	2DC4617RDICT-ND	.41	2.88	—	—
	50	150	180	2DC4617R-FDICT-ND◆	.50	3.60	3,000	72.00/M
	50	150	270	2DC4617SDICT-ND	.41	2.88	—	—
	50	150	270	2DC4617S-FDICT-ND◆	.50	3.60	3,000	72.00/M
NPN SOT-223 — RoHS Compliant								
2	12	4,000	500	DNLS412EDICT-ND	.66	5.70	2,500	218.00/M
	20	1,000	50	DCP68-25DICT-ND	.52	4.13	2,500	145.00/M
	20	100	85	DCP68DICT-ND	.50	3.96	2,500	140.00/M
	20	3,000	500	DNLS320EDICT-ND	.66	5.70	2,500	218.00/M
	25	5,000	50	DZT3150DICT-ND	.55	4.40	2,500	155.00/M
	40	3,000	100	DJT4031NDICT-ND ***NEW!***	.61	4.84	2,500	171.00/M
	40	100	100	DZT2222ADICT-ND	.50	3.96	2,500	140.00/M
	45	1,000	63	DCP54DICT-ND	.50	3.96	2,500	140.00/M
	45	1,000	100	DCP54-16DICT-ND	.50	3.96	2,500	140.00/M
	50	3,000	200	DNLS350EDICT-ND	.54	4.28	2,500	124.00/M
	60	3,000	70	DZT651DICT-ND	.66	5.28	2,500	186.00/M
	60	6,000	25	DZT851DICT-ND	.61	4.84	2,500	171.00/M
	60	6,000	50	DSS60601MZ4DICT-ND	.55	4.40	2,500	155.00/M
	60	500	100	DZT491DICT-ND	.50	3.96	2,500	140.00/M
	60	1,000	40	DCP55DICT-ND	.50	3.96	2,500	140.00/M
	60	1,000	100	DCP55-16DICT-ND	.50	3.96	2,500	140.00/M
	80	1,000	40	DCP56DICT-ND	.50	3.96	2,500	140.00/M
	80	1,000	100	DCP56-16DICT-ND	.50	3.96	2,500	140.00/M
	100	6,000	20	DZT853DICT-ND	.70	6.08	2,500	232.00/M
	160	600	30	DZT5551DICT-ND	.50	3.96	2,500	140.00/M
	300	500	40	DZTA42DICT-ND	.55	4.40	2,500	155.00/M
	400	500	50	DZT658DICT-ND	.66	5.28	2,500	186.00/M
NPN SOT-89 — RoHS Compliant								
3	20	3,000	180	2DD2150RDICT-ND	.58	4.56	2,500	132.00/M
	20	1,000	50	DCX68DICT-ND	.58	4.56	2,500	132.00/M
	25	5,000	50	DXT3150DICT-ND	.50	3.96	2,500	140.00/M
	32	1,000	82	2DD1664PDICT-ND	.58	4.56	2,500	132.00/M
	32	1,000	120	2DD1664QDICT-ND	.58	4.56	2,500	132.00/M
	32	1,000	180	2DD1664RDICT-ND	.58	4.56	2,500	132.00/M
	32	2,000	82	2DD1766PDICT-ND	.50	3.96	2,500	140.00/M
	32	2,000	180	2DD1766RDICT-ND	.50	3.96	2,500	140.00/M
	40	600	35	DXT2222ADICT-ND	.46	3.65	2,500	106.00/M
	80	1,000	40	DCX56DICT-ND	.50	3.96	2,500	140.00/M
	80	1,000	40	DCX56-16DICT-ND	.50	3.96	2,500	140.00/M
	160	600	30	DXT5551DICT-ND	.52	4.13	2,500	145.00/M
NPN SOT89-3 — RoHS Compliant								
3	12	2,000	270	2DD2661DICT-ND	.54	4.28	2,500	124.00/M
	12	3,000	270	2DD2678DICT-ND	.54	4.28	2,500	124.00/M
	25	2,000	200	2DD1621TDICT-ND	.50	3.96	2,500	140.00/M
	20	5,000	180	2DD2098RDICT-ND	.50	3.96	2,500	140.00/M
	20	1,000	50	DCX68-25DICT-ND	.60	4.70	2,500	136.00/M
	40	4,000	100	DSS4540XDICT-ND	.55	4.40	2,500	155.00/M
	50	3,000	300	DNLS350YDICT-ND	.54	4.28	2,500	124.00/M
	50	3,000	45	2DC4672DICT-ND	.58	4.56	2,500	132.00/M
	60	3,000	100	DXT651-13DICT-ND ***NEW!***	.66	5.28	2,500	186.00/M
NEW! NPN SOT-563 — RoHS Compliant NEW!								
5	20	2,000	120	DSS4220VDICT-ND	.56	4.00	3,000	80.00/M
	40	2,000	75	DSS4240VDICT-ND	.56	4.00	3,000	80.00/M
	40	1,000	75	DSS4140VDICT-ND	.56	4.00	3,000	80.00/M
	60	1,000	100	DSS4160VDICT-ND	.56	4.00	3,000	80.00/M
Dual NPN SOT-26								
4	120	50	180	IMX8DICT-ND	.43	3.42	—	—
	120	50	180	IMX8-FDICT-ND◆	.51	3.99	3,000	115.50/M
	160	200	30	DMMT5551-FDICT-ND▲◆	.53	3.75	3,000	90.00/M

◆ ***RoHS Compliant*** ▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair

§ For Tape and Reel part number, change CT-ND to TR-ND

(Continued)

Transistors *(Cont.)*

Fig.	VCEO (V)	IC (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
Dual NPN SOT-563 — RoHS Compliant								
5	40	600	35	MMDT2222VDICT-ND	.53	3.75	3,000	90.00/M
	40	200	100	MMDT3904VDICT-ND	.53	3.75	3,000	90.00/M
	40	200	30	MMDT3904VCDICT-ND	.53	3.75	3,000	90.00/M
	45	100	150	BC847BVC-7DICT-ND ***NEW!***	.44	3.42	3,000	99.00/M
	45	100	200	BC847BVDICT-ND	.44	3.42	3,000	99.00/M
	45	100	200	DMB53D0UVDICT-ND	.54	4.28	3,000	124.00/M
	45/45	100/100	200/220	BC847BVNDICT-ND	.51	3.99	3,000	116.00/M
	60	1,000	250	DNLS160VDICT-ND	.44	3.42	3,000	99.00/M
Dual NPN SOT-363								
4	25	200	60	MMDT4124-FDICT-ND◆	.42	3.00	3,000	60.00/M
	40	600	100	MMDT4401DICT-ND	.47	3.77	—	—
	40	600	100	MMDT4401-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40	200	100	DMMT3904W-FDICT-ND▲◆	.44	3.42	3,000	99.00/M
	40	600	35	MMDT2222A-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40	200	30	MMDT3904-FDICT-ND◆	.48	3.38	3,000	81.00/M
	45	100	200	BC847BS-7-FDICT-ND◆ ***NEW!***	.56	4.00	3,000	80.00/M
	45	100	200	DMB53D0UDWDICT-ND◆	.44	3.42	3,000	99.00/M
	65	100	110	BC846ASDICT-ND◆	.53	3.75	3,000	90.00/M
	160	200	30	MMDT5551-FDICT-ND◆	.56	4.00	3,000	80.00/M
Dual NPN DFN1310H4-6 — RoHS Compliant								
6	45	100	420	BC847CDLPDICT-ND	.44	3.42	3,000	99.00/M
NPN DFN1006-3 — RoHS Compliant								
7	50	100	120	2DC4617QLPDICT-ND	.48	3.38	3,000	81.00/M
NPN DFN1006H4-3 — RoHS Compliant								
7	45	100	200	BC847BLP4DICT-ND	.44	3.42	3,000	99.00/M
Complementary NPN/PNP SOT-26 — RoHS Compliant								
4	40/40	200/200	10/12	LBN150B01DICT-ND	.47	3.71	3,000	107.00/M
	40/60	600/600	35/50	MMDT2227MDICT-ND	.56	4.00	3,000	80.00/M
Complementary NPN/PNP SOT-363								
4	40/60	600/600	35/50	MMDT2227-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40/40	200/200	40/60	MMDT3946-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40/40	200/200	60/60	MMDT4146DICT-ND	.47	3.77	—	—
	40/40	200/200	60/60	MMDT4146-FDICT-ND◆	.42	3.00	3,000	60.00/M
	40/40	600/600	20/30	MMDT4413DICT-ND	.47	3.77	—	—
	40/40	600/600	20/30	MMDT4413-FDICT-ND◆	.53	3.75	3,000	90.00/M
	160/160	200/200	30/50	MMDT5451-FDICT-ND◆	.53	3.75	3,000	90.00/M
	45/45	100/100	200/220	BC847PN-FDICT-ND◆	.42	3.00	3,000	60.00/M
NPN/P-Channel Complex Array SOT-363								
4	60	600	100	CTA2N1PDICT-ND	.57	4.90	—	—
	60	600	100	CTA2N1P-FDICT-ND◆	.47	3.71	3,000	107.25/M
PNP SOT-323								
1	12	1,500	270	2DB1689DICT-ND	.42	3.00	3,000	60.00/M
	25	200	60	MMST4126DICT-ND	.40	3.17	—	—
	25	200	60	MMST4126-FDICT-ND◆	.63	4.25	3,000	58.75/M
	30	1,000	270	2DB1694DICT-ND	.42	3.00	3,000	60.00/M
	30	500	10K	MMSTA63DICT-ND	.42	3.40	—	—
	30	500	10K	MMSTA63-FDICT-ND◆	.56	4.00	3,000	80.00/M
	30	500	20K	MMSTA64DICT-ND	.42	3.40	—	—
	30	500	20K	MMSTA64-FDICT-ND◆	.56	4.00	3,000	80.00/M
	40	3,000	100	DJT4030PDICT-ND◆ ***NEW!***	.61	4.84	2,500	171.00/M
	40	1,000	160	DSS5140UDICT-ND◆ ***NEW!***	.56	4.00	3,000	80.00/M
	40	600	30	MMST4403DICT-ND	.40	3.17	—	—
	40	600	30	MMST4403-FDICT-ND◆	.50	3.40	3,000	47.00/M
	40	200	30	MMST3906-FDICT-ND◆	.50	3.40	3,000	47.00/M
	45	500	60	BC807-16WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	500	100	BC807-25WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	500	170	BC807-40WDICT-ND◆	.50	3.40	3,000	47.00/M
	45	100	125	BC857AW-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	45	100	220	BC857BW-FDICT-ND◆	.46	2.99	3,000	35.00/M
	45	100	420	BC857CW-FDICT-ND◆	.46	2.99	3,000	35.00/M
	60	1,000	100	DSS5160UDICT-ND◆ ***NEW!***	.56	4.00	3,000	80.00/M
	60	500	100	MMSTA55DICT-ND	.42	3.40	—	—
	60	500	100	MMSTA55-FDICT-ND◆	.56	4.00	3,000	80.00/M
	60	600	50	MMST2907ADICT-ND	.40	3.17	—	—
	60	600	50	MMST2907A-FDICT-ND◆	.50	3.40	3,000	47.00/M
	65	100	125	BC856AW-7-FDICT-ND◆ ***NEW!***	.38	2.55	3,000	35.00/M
	65	100	220	BC856BW-FDICT-ND◆	.38	2.55	3,000	35.00/M
	80	500	100	MMSTA56DICT-ND	.42	3.40	—	—
	80	500	100	MMSTA56-FDICT-ND◆	.56	4.00	3,000	80.00/M
	150	200	50	MMST5401-FDICT-ND◆	.42	3.00	3,000	60.00/M
	300	100	25	MMSTA92-FDICT-ND◆	.56	4.00	3,000	80.00/M
PNP SOT-23								
1	20	2,000	150	DSS20200LDICT-ND	.56	4.00	3,000	80.00/M
	20	2,000	220	DPLS320ADICT-ND◆	.54	4.28	3,000	124.00/M
	25	200	60	MMBT4126-FDICT-ND◆	.42	2.76	3,000	32.40/M
	30	500	10K	MMBTA63DICT-ND	.53	3.72	—	—
	30	500	10K	MMBTA63-FDICT-ND◆	.40	2.72	3,000	37.60/M
	30	500	20K	MMBTA64DICT-ND	.53	3.72	3,000	—
	30	500	20K	MMBTA64-FDICT-ND◆	.40	2.72	3,000	37.60/M
	40	2,000	100	DSS5240TDICT-ND	.56	4.00	3,000	80.00/M
	40	200	30	MMBT3906-FDICT-ND◆	.28	1.84	3,000	21.60/M
	40	600	100	MMBT4403-FDICT-ND◆	.32	2.07	3,000	24.30/M
	45	500	60	BC807-16-FDICT-ND◆	.38	2.55	3,000	35.25/M
	45	500	100	BC807-25-FDICT-ND◆	.63	4.25	3,000	58.75/M
	45	500	170	BC807-40-FCT-ND◆	.38	2.55	3,000	35.25/M
	45	100	420	BC857C-FDICT-ND◆	.46	2.99	3,000	35.00/M
	45	100	220	BC857B-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	45	100	125	BC857A-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	60	1,000	200	DPLS160DICT-ND◆	.57	4.05	3,000	97.00/M
	60	100	50	MMBTA55DICT-ND	.53	3.72	—	—
	60	100	50	MMBTA55-FDICT-ND◆	.40	2.72	3,000	37.60/M
	60	150	300	MMBT2907A-FDICT-ND◆	.32	2.07	3,000	24.30/M
	65	100	125	BC856A-FDICT-ND◆	.46	2.99	3,000	35.00/M
	65	100	220	BC856B-7-FDICT-ND◆ ***NEW!***	.46	2.99	3,000	35.00/M
	80	100	50	MMBTA56DICT-ND	.53	3.72	—	—
	80	100	50	MMBTA56-FDICT-ND◆	.40	2.72	3,000	37.60/M
	150	200	50	MMBT5401-FDICT-ND◆	.38	2.55	3,000	35.25/M
	300	500	25	MMBTA92-FDICT-ND◆	.40	2.72	—	—

Fig.	VCEO (V)	IC (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
PNP SOT-523								
1	40	200	30	MMBT3906TDICT-ND	.36	2.56	—	—
	40	200	30	MMBT3906T-FDICT-ND◆	.45	3.06	3,000	42.30/M
	40	600	20	MMBT4403T-FDICT-ND◆	.50	3.40	3,000	47.00/M
	45	100	125	BC857AT-FDICT-ND◆	.40	2.72	3,000	37.60/M
	45	100	220	BC857BT-FDICT-ND◆	.40	2.72	3,000	37.60/M
	45	100	420	BC857CT-7-FDICT-ND◆ ***NEW!***	.42	3.00	3,000	60.00/M
	50	150	120	2DA1774QDICT-ND	.41	2.88	—	—
	50	150	180	2DA1774RDICT-ND	.41	2.88	—	—
	50	150	180	2DA1774R-FDICT-ND◆	.50	3.60	3,000	72.00/M
	50	150	270	2DA1774SDICT-ND	.41	2.88	—	—
	50	150	270	2DA1774S-FDICT-ND◆	.50	3.60	3,000	72.00/M
	60	600	50	MMBT2907AT-FDICT-ND◆	.42	3.00	3,000	60.00/M
PNP SOT-223 — RoHS Compliant								
2	15	3,000	500	DPLS315EDICT-ND	.66	5.70	2,500	218.00/M
	20	1,000	50	DCP69-25DICT-ND	.52	4.13	2,500	145.00/M
	20	1,000	50	DCP69DICT-ND	.52	4.13	2,500	145.00/M
	20	1,000	50	DCP69-16DICT-ND	.52	4.13	2,500	145.00/M
	20	1,000	85	DCP69ADICT-ND	.50	3.96	2,500	140.00/M
	20	1,000	100	DCP69A-16DICT-ND	.50	3.96	2,500	140.00/M
	25	3,000	300	DPLS325EDICT-ND	.66	5.70	2,500	218.00/M
	30	3,000	90	DMJT9435DICT-ND	.55	4.40	2,500	155.00/M
	45	1,000	40	DCP51DICT-ND	.50	3.96	2,500	140.00/M
	45	1,000	100	DCP51-16DICT-ND	.50	3.96	2,500	140.00/M
	50	3,000	100	DPLS350EDICT-ND	.54	4.28	2,500	124.00/M
	60	6,000	70	DSS60600MZ4DICT-ND	.63	5.06	2,500	178.00/M
	60	3,000	70	DZT751DICT-ND	.66	5.28	2,500	186.00/M
	60	1,000	40	DCP52DICT-ND	.50	3.96	2,500	140.00/M
	60	5,000	10	DZT951DICT-ND	.70	6.08	2,500	232.00/M
	60	1,000	100	DCP52-16DICT-ND	.50	3.96	2,500	140.00/M
	60	100	100	DZT2907ADICT-ND	.44	3.42	2,500	99.00/M
	60	500	100	DZT591CDICT-ND	.47	3.71	2,500	107.00/M
	80	1,000	40	DCP53DICT-ND	.50	3.96	2,500	140.00/M
	80	1,000	100	DCP53-16DICT-ND	.50	3.96	2,500	140.00/M
	100	5,000	15	DZT953DICT-ND	.70	6.08	2,500	232.00/M
	140	4,000	100	DZT955DICT-ND	.69	5.50	2,500	194.00/M
	140	4,000	100	DPLS4140EDICT-ND	.66	5.70	2,500	218.00/M
	150	600	50	DZT5401DICT-ND	.50	3.96	2,500	140.00/M
	300	250	40	DZTA92DICT-ND	.55	4.40	2,500	155.00/M
PNP SOT-89 — RoHS Compliant								
3	20	5,000	120	2DB1386Q-13DICT-ND ***NEW!***	.74	5.94	2,500	209.00/M
	20	5,000	180	2DB1386R-13DICT-ND ***NEW!***	.74	5.94	2,500	209.00/M
	20	1,000	50	DCX69DICT-ND	.58	4.56	2,500	132.00/M
	20	1,000	50	DCX69-16DICT-ND	.58	4.56	2,500	132.00/M
	32	1,000	120	2DB1132QDICT-ND	.58	4.56	2,500	132.00/M
	32	1,000	180	2DB1132RDICT-ND	.58	4.56	2,500	132.00/M
	32	2,000	82	2DB1188PDICT-ND	.50	3.96	2,500	140.00/M
	32	2,000	120	2DB1188QDICT-ND	.50	3.96	2,500	140.00/M
	32	2,000	180	2DB1188RDICT-ND	.50	3.96	2,500	140.00/M
	50	3,000	80	DPLS350YDICT-ND	.54	4.28	2,500	124.00/M
	60	600	50	DXT2907ADICT-ND	.58	4.56	2,500	132.00/M
	80	1,000	40	DCX53DICT-ND	.50	3.96	2,500	140.00/M
	80	1,000	40	DCX53-16DICT-ND	.50	3.96	2,500	140.00/M
	150	600	50	DXT5401DICT-ND	.52	4.13	2,500	145.00/M
PNP SOT89-3 — RoHS Compliant								
3	12	2,000	270	2DB1697DICT-ND	.54	4.28	2,500	124.00/M
	12	3,000	270	2DB1713DICT-ND	.58	4.56	2,500	132.00/M
	20	3,000	180	2DB1424RDICT-ND	.50	3.96	2,500	140.00/M
	20	1,000	160	DCX69-25DICT-ND	.60	4.70	2,500	136.00/M
	30	2,000	270	2DB1714DICT-ND	.58	4.56	2,500	132.00/M
	50	3,000	82	2DA1797DICT-ND	.58	4.56	2,500	132.00/M
	50	2,000	70	2DA1213ODICT-ND	.60	4.70	2,500	136.00/M
	50	2,000	120	2DA1213YDICT-ND	.60	4.70	2,500	136.00/M
PNP SOT-563 — RoHS Compliant								
5	20	2,000	60	DSS5220VDICT-ND ***NEW!***	.56	4.00	3,000	80.00/M
	40	1,800	50	DSS5240VDICT-ND ***NEW!***	.56	4.00	3,000	80.00/M
	40	1,000	160	DSS5140VDICT-ND ***NEW!***	.56	4.00	3,000	80.00/M
	45	100	220	DMB54D0UVDICT-ND	.54	4.28	3,000	124.00/M
	60	1,000	100	DSS5160VDICT-ND ***NEW!***	.56	4.00	3,000	80.00/M
	60	1,000	200	DPLS160VDICT-ND	.44	3.42	3,000	99.00/M
PNP DFN1006-3 — RoHS Compliant								
7	40	100	120	2DA1774QLPDICT-ND	.41	2.88	—	—
	45	100	200	BC847BLPDICT-ND	.48	3.38	3,000	81.00/M
	45	100	220	BC857BLPDICT-ND	.53	3.75	3,000	90.00/M
PNP DFN1006H4-3 — RoHS Compliant								
7	45	100	220	BC857BLP4DICT-ND	.44	3.42	3,000	99.00/M
Dual PNP SOT-26 — RoHS Compliant								
4	40	200	100	DMMT3906-7-FDICT-ND† ***NEW!***	.47	3.71	3,000	107.00/M
	150	200	50	DMMT5401-FDICT-ND†	.53	3.75	3,000	90.00/M
Dual PNP SOT-563 — RoHS Compliant								
5	40	200	30	MMDT3906VCDICT-ND	.53	3.75	3,000	90.00/M
	45	100	220	BC857BV-7DICT-ND ***NEW!***	.56	4.00	3,000	80.00/M
	60	600	50	MMDT2907VDICT-ND	.56	4.00	3,000	80.00/M
Dual PNP SOT-363— RoHS Compliant								
4	25	200	60	MMDT4126-FDICT-ND	.42	3.00	3,000	60.00/M
	40	200	60	MMDT3906-FDICT-ND	.56	4.00	3,000	80.00/M
	40	600	100	MMDT4403-FDICT-ND	.56	4.00	3,000	80.00/M
	40	200	30	DMMT3906W-FDICT-ND†	.44	3.42	3,000	99.00/M
	45	100	220	BC857BS-7-FDICT-ND ***NEW!***	.63	4.25	3,000	59.00/M
	45	100	220	DMB54D0UDWDICT-ND	.44	3.42	3,000	99.00/M
	60	600	75	MMDT2907A-FDICT-ND	.56	4.00	3,000	80.00/M
	65	100	125	BC856ASDICT-ND	.54	4.28	3,000	124.00/M
	150	200	50	MMDT5401-FDICT-ND	.56	4.00	3,000	80.00/M
PNP/N-Channel Complex Array SOT-363								
4	40	600	100	CTA2P1NDICT-ND	.57	4.90	—	—
	40	600	100	CTA2P1N-FDICT-ND◆	.51	3.99	3,000	115.50/M

◆ ***RoHS Compliant*** ▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair
§ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Transistors *(Cont.)*

Fig.	VCEO (V)	IC (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
Complex Transistor/Diode Array SOT-363 — RoHS Compliant								
4	Array for Relay Driver		150	DRDN010WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		100	DRDN005WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Voltage Reg.		150	DVR1V8WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Voltage Reg.		150	DVR2V5WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Voltage Reg.		150	DVR3V3WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Voltage Reg.		150	DVR5V0WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		100	DRDP006WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		56	DRDNB16WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		47	DRDNB26WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		56	DRDPB16WDICT-ND	.44	3.42	3,000	99.00/M
	Array for Relay Driver		47	DRDPB26WDICT-ND	.44	3.42	3,000	99.00/M
Complex Transistor Array SOT 563 — RoHS Compliant								
5	Array for Voltage Reg.		270	EMF21DICT-ND	.50	3.96	3,000	140.00/M

MOSFETs

Fig.	VDS (V)	ID (A)	RDS (on) (Ω)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					1	10	Qty.	Pricing
N-Channel SOT-323 — RoHS Compliant								
1	20	0.540	0.4	DMN2004WKDICT-ND	.55	4.40	3,000	155.00/M
	20	1	0.45	DMG1012UW-7DICT-ND ***NEW!***	.42	3.00	3,000	60.00/M
	28	1.6	0.073	DMN3150LWDICT-ND	.55	4.40	3,000	155.00/M
	50	0.200	3.5	BSS138W-FDICT-ND	.49	3.50	3,000	70.00/M
	50	0.300	2.0	DMN5L06WKDICT-ND	.53	3.75	3,000	90.00/M
	60	0.115	3.2	2N7002W-FDICT-ND	.70	4.76	3,000	65.80/M
	60	0.300	2.0	DMN601WKDICT-ND	.53	3.75	3,000	90.00/M
	100	0.170	6.0	BSS123W-FDICT-ND	.56	4.00	3,000	80.00/M
N-Channel SOT-23 — RoHS Compliant								
1	20	0.34	.55	DMC2004DWKDICT-ND	.58	4.56	3,000	132.00/M
	20	0.540	0.4	DMN2004KDICT-ND	.56	4.00	3,000	80.00/M
	20	2	0.11	DMN2230U-7DICT-ND ***NEW!***	.58	4.62	3,000	163.00/M
	20	2.3	0.17	DMN2170UDICT-ND	.54	4.28	3,000	124.00/M
	20	4.2	0.025	DMG3414U-7DICT-ND ***NEW!***	.55	4.40	3,000	155.00/M
	20	4.2	0.038	DMN2075U-7DICT-ND ***NEW!***	.49	3.50	3,000	70.00/M
	20	4.2	0.090	DMG2302U-7DICT-ND ***NEW!***	.55	4.40	3,000	155.00/M
	20	4.3	0.042	DMN2104LDICT-ND	.55	4.40	3,000	155.00/M
	20	5.47	0.029	DMG3420U-7DICT-ND ***NEW!***	.48	3.40	3,000	68.00/M
	20	6.4	0.028	DMN2041L-7DICT-ND ***NEW!***	.48	3.38	3,000	81.00/M
	20	6.5	0.021	DMG6968UDICT-ND	.55	4.40	3,000	155.00/M
	20	5.9	0.024	DMN2050LDICT-ND	.50	3.96	3,000	140.00/M
	28	3.2	0.115	DMN3150LDICT-ND	.53	3.75	3,000	90.00/M
	30	4.9	0.024	DMN3404LDICT-ND	.49	3.50	3,000	70.00/M
	30	5.4	0.026	DMN3052LDICT-ND	.50	3.96	3,000	140.00/M
	30	5.8	0.033	DMN3051LDICT-ND	.50	3.96	3,000	140.00/M
	30	5.8	0.047	DMN3112SDICT-ND	.50	3.96	3,000	140.00/M
	50	0.200	1.4	BSS138-FDICT-ND	.63	4.25	3,000	58.75/M
	50	0.300	2.0	DMN5L06KDICT-ND	.56	4.00	3,000	80.00/M
	60	0.115	3.2	2N7002-FDICT-ND	.39	2.64	3,000	36.43/M
	60	0.250	3.5	BS870-FDICT-ND	.63	4.25	3,000	58.75/M
	60	0.300	2.0	DMN601KDICT-ND	.56	4.00	3,000	80.00/M
	60	0.500	5.0	MMBF170-FDICT-ND	.42	3.00	3,000	60.00/M
	100	0.170	6.0	BSS123-FDICT-ND	.63	4.25	3,000	58.75/M
N-Channel SOT-523 — RoHS Compliant								
1	20	0.23	3.0	DMN26D0UT-7DICT-ND ***NEW!***	.60	4.08	3,000	56.00/M
	20	0.63	0.4	DMG1012T-7DICT-ND ***NEW!***	.55	3.74	3,000	52.00/M
	50	0.160	3.1	DMN55D0UTDICT-ND	.54	4.28	3,000	124.00/M
	50	0.280	1.8	DMN5L06TKDICT-ND	.54	4.28	3,000	124.00/M
	60	0.300	2.0	DMN601TKDICT-ND	.44	3.42	3,000	99.00/M
	60	0.115	2.0	2N7002T-FDICT-ND	.50	3.60	3,000	72.00/M
	60	0.115	3.5	DMN66D0LTDICT-ND	.55	4.40	3,000	155.00/M
N-Channel SOT-26 — RoHS Compliant								
4	20	3.3	0.13	DMN2100UDMDICT-ND	.58	4.62	3,000	163.00/M
	30	3.2	0.13	DMN3115UDMDICT-ND	.58	4.62	3,000	163.00/M
	30	5.3	0.027	DMG6402LDM-7DICT-ND ***NEW!***	.48	3.38	3,000	107.00/M
N-Channel DFN1006H4-3 — RoHS Compliant								
7	20	0.200	3.5	DMN2005LP4KDICT-ND	.58	4.13	3,000	99.00/M
	20	0.23	3.0	DMN26D0UFB4-7DICT-ND ***NEW!***	.68	4.59	3,000	63.00/M
	30	0.300	2.2	DMN32D2LFB4DICT-ND	.50	3.96	3,000	140.00/M
N-Channel SC-59 — RoHS Compliant								
1	20	1.2	0.10	DMN2112SNDICT-ND	.59	4.20	3,000	101.00/M
	20	1.2	0.10	DMN2114SNDICT-ND	.59	4.20	3,000	101.00/M
	20	6.9	0.02	DMN2020LSN-7DICT-ND ***NEW!***	.54	4.28	3,000	124.00/M
	30	6	0.04	DMN3033LSNDICT-ND	.58	4.62	3,000	163.00/M
	30	1.1	0.24	DMN100-FDICT-ND	.74	5.94	3,000	209.25/M
N-Channel SOP-8 — RoHS Compliant								
11	30	16	0.005	DMN3007LSSDICT-ND	.95	8.50	2,500	350.00/M
	30	9	0.015	DMN3031LSSDICT-ND	.95	8.50	2,500	350.00/M
	30	6	0.043	DMN3112SSSDICT-ND	.95	8.50	2,500	350.00/M
	30	9	0.011	DMN4800LSSDICT-ND	.52	4.18	2,500	147.00/M
NEW! N-Channel SO-8 — RoHS Compliant NEW!								
11	30	6.4	0.024	DMN3024LSS-13DICT-ND	.77	6.16	2,500	217.00/M
	30	10	0.0215	DMG4496SSS-13DICT-ND	.52	4.10	2,500	119.00/M
	30	10	0.023	DMG4466SSS-13DICT-ND	.52	4.10	2,500	119.00/M
	30	11.2	0.014	DMG4712SSS-13DICT-ND	.66	5.28	2,500	186.00/M
	30	11.6	0.01	DMG8880LSS-13DICT-ND	.72	5.72	2,500	202.00/M
	30	12.7	0.0135	DMG4710SSS-13DICT-ND	.66	5.28	2,500	186.00/M
NEW! N-Channel SOP-8L — RoHS Compliant NEW!								
11	30	7.1	0.030	DMN3052LSSDICT-ND	.95	8.50	2,500	350.00/M
NEW! N-Channel DPAK — RoHS Compliant NEW!								
12	20	11.6	0.021	DMN2027LK3-13DICT-ND	.66	5.28	2,500	186.00/M
	30	11.3	0.020	DMN3020LK3-13DICT-ND	.66	5.28	2,500	186.00/M
	30	9.78	0.024	DMN3024LK3-13DICT-ND	.66	5.28	2,500	186.00/M
	40	18	0.0085	DMN4009LK3-13DICT-ND	.66	5.28	2,500	186.00/M
	40	13.5	0.015	DMN4015LK3-13DICT-ND	.70	6.08	2,500	232.00/M
	40	9.4	0.030	DMN4030LK3-13DICT-ND	.66	5.70	2,500	218.00/M
	40	8.5	0.036	DMN4036LK3-13DICT-ND	.72	5.72	2,500	202.00/M
	60	6	0.068	DMN6068LK3-13DICT-ND	.66	5.28	2,500	186.00/M
NEW! N-Channel TO-252 — RoHS Compliant NEW!								
12	30	9.7	0.016	DMG4468LK3-13DICT-ND	.69	5.50	2,500	194.00/M
	30	10	0.017	DMG4800LK3-13DICT-ND	.69	5.50	2,500	194.00/M
NEW! N-Channel 8-DFN — RoHS Compliant NEW!								
13	30	7.44	0.017	DMG4800LFG-7DICT-ND	.55	4.40	3,000	155.00/M
	30	7.62	0.015	DMG4468LFGDICT-ND	.61	4.84	3,000	171.00/M
Dual N-Channel SOT-26 — RoHS Compliant								
4	20	0.540	0.4	DMN2004DMKDICT-ND	.50	3.96	3,000	140.00/M
	20	2	0.08	DMN2215UDMDICT-ND	.66	5.28	3,000	186.00/M
	20	4.2	0.022	DMG9926UDMDICT-ND ***NEW!***	.61	4.84	3,000	171.00/M
	20	6.5	0.017	DMG6968UDMDICT-ND ***NEW!***	.63	5.06	3,000	178.00/M
	50	0.305	2.0	DMN5L06DMKDICT-ND	.50	3.96	3,000	140.00/M
	60	0.305	2.4	DMN601DMKDICT-ND	.50	3.96	3,000	139.50/M
Dual N-Channel SOT-563								
5	20	0.540	0.4	DMN2004VKDICT-ND◆	.51	3.99	3,000	116.00/M
	20	1.38	0.45	DMG1024UV-7DICT-ND◆ ***NEW!***	.47	3.71	3,000	107.00/M
	20	1.33	0.5	DMN2400UV-7DICT-ND◆ ***NEW!***	.58	4.13	3,000	99.00/M
	50	0.280	2.0	DMN5L06VAKDICT-ND◆	.58	4.13	3,000	99.00/M
	50	0.280	2.0	DMN5L06VKDICT-ND◆	.58	4.13	3,000	99.00/M
	60	0.305	2.0	DMN601VKDICT-ND◆	.50	3.96	3,000	139.50/M
	60	0.280	13.5	2N7002VDICT-ND	.66	5.70	3,000	217.50/M
	60	0.280	13.5	2N7002VADICT-ND	.57	4.90	—	—
	60	0.280	13.5	2N7002VA-FDICT-ND◆	.66	5.70	3,000	217.50/M
Dual N-Channel SOT-363 — RoHS Compliant								
4	20	0.540	0.4	DMN2004DWKDICT-ND	.58	4.56	3,000	132.00/M
	50	0.305	2.0	DMN5L06DWKDICT-ND	.58	4.56	3,000	132.00/M
	50	0.200	3.5	BSS138DW-FDICT-ND	.54	4.28	3,000	123.75/M
	60	0.305	2.0	DMN601DWKDICT-ND	.58	4.56	3,000	132.00/M
	60	0.115	6.0	DMN66D0LDWDICT-ND	.74	5.94	3,000	209.00/M
	60	0.115	3.2	2N7002DW-FDICT-ND	.53	3.75	3,000	90.00/M
Dual N-Channel DFN1310H4-6 — RoHS Compliant								
6	20	0.20	3.5	DMN2005DLP4KDICT-ND	.58	4.56	3,000	132.00/M
Dual N-Channel SO-8								
11	30	0.11	3.7	DI9956CT-ND	2.62	22.50	—	—
	30	5.7	0.024	DMN3024LSD-13DICT-ND◆ ***NEW!***	.77	6.16	2,500	217.00/M
	30	8.54	0.016	DMG4800LSD-13DICT-ND◆ ***NEW!***	.66	5.28	2,500	186.00/M
	30	9.5	0.015	DMG4932LSD-13DICT-ND◆ ***NEW!***	.72	5.72	2,500	202.00/M
	60	0.17	3.5	DI9945CT-ND	2.72	23.27	—	—
NEW! Dual N-Channel SOP-8L — RoHS Compliant NEW!								
11	20	7	0.026	DMN2040LSDDICT-ND	.72	5.72	2,500	202.00/M
	20	8	0.024	DMG9926USD-13DICT-ND	.55	4.40	2,500	155.00/M
NEW! Dual N-Channel DFN-8 — RoHS Compliant NEW!								
13	20	6.1	0.023	DMG8601UFG-7DICT-ND	.69	5.50	3,000	194.00/M
NEW! Dual N-Channel 8-TSSOP — RoHS Compliant NEW!								
15	20	8.58	0.0145	DMN2016UTS-13DICT-ND	.72	5.72	2,500	202.00/M
	20	6.7	0.026	DMN2040LTS-13DICT-ND	.55	4.40	2,500	387.50
	20	4.9	0.025	DMG8822UTS-13DICT-ND	.61	4.84	2,500	171.00/M
NEW! Dual N-Channel SOT-963 — RoHS Compliant NEW!								
16	20	0.23	3.0	DMN26D0UDJ-7DICT-ND	.44	3.42	10,000	87.00/M
NEW! Complementary NPN/PNP SOT-363 — RoHS Compliant NEW!								
4	20	1.07 0.845	0.45	DMG1016UDW-7DICT-ND	.56	4.00	3,000	80.00/M
Complementary NPN/PNP SOT-563 — RoHS Compliant								
5	20	0.54	0.9	DMC2004VKDICT-ND	.72	5.72	3,000	202.00/M
P-Channel SOT-323 — RoHS Compliant								
1	20	0.82	0.75	DMG1013UW-7DICT-ND ***NEW!***	.63	4.25	3,000	59.00/M
	20	1.5	0.075	DMP2160UWDICT-ND	.48	3.38	3,000	81.00/M
	20	1.5	0.092	DMP2240UWDICT-ND	.66	5.28	3,000	186.00/M
	50	0.130	10	BSS84W-FDICT-ND	.49	3.50	3,000	70.00/M
P-Channel SOT-23 — RoHS Compliant								
1	20	0.600	2.0	DMP2004KDICT-ND	.56	4.00	3,000	80.00/M
	20	2.5	0.13	DMG2301U-7DICT-ND ***NEW!***	.55	4.40	3,000	155.00/M
	20	2.6	0.080	DMP2225LDICT-ND	.50	3.96	3,000	140.00/M
	20	2.7	0.215	DMP2215LDICT-ND	.44	3.42	3,000	99.00/M
	20	3.0	0.051	DMP2123LDICT-ND	.58	4.56	3,000	132.00/M
	20	3.0	0.051	DMP2130LDICT-ND	.58	4.56	3,000	132.00/M
	20	3.2	0.060	DMP2160UDICT-ND	.57	4.05	3,000	97.00/M
	20	3.6	0.035	DMP2035U-7DICT-ND ***NEW!***	.53	3.75	3,000	90.00/M
	20	4	0.031	DMG3415UDICT-ND	.55	4.40	3,000	155.00/M
	20	4.2	0.045	DMP2305UDICT-ND	.62	4.40	3,000	88.00/M

◆ ***RoHS Compliant*** ▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair

§ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

MOSFETs *(Cont.)*

Fig.	VDS (V)	ID (A)	RDS (on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Tape and Reel§ Qty.	Tape and Reel§ Pricing
1	30	2.7	0.097	DMP3160LDICT-ND	.62	4.85	3,000	140.00/M
	30	3.5	0.059	DMP3130LDICT-ND	.51	3.99	3,000	116.00/M
	30	3.8	0.056	DMP3098LDICT-ND	.44	3.42	3,000	99.00/M
	50	0.130	10	BSS84-FDICT-ND	.42	3.00	3,000	60.00/M
P-Channel SOT-523 — RoHS Compliant								
1	20	0.430	0.7	DMP2004TKDICT-ND	.62	4.85	3,000	140.00/M
	20	0.430	0.7	DMP22D6UTDICT-ND	.62	4.85	3,000	140.00/M
	20	0.46	0.7	DMG1013T-7DICT-ND ***NEW!***	.55	3.74	3,000	52.00/M
P-Channel SOT-26 — RoHS Compliant								
4	20	3.4	0.13	DMP2130LDMDICT-ND	.52	4.18	3,000	147.00/M
	20	4.6	0.029	DMP2066LDMDICT-ND	.50	3.96	3,000	140.00/M
	30	4.3	0.045	DMP3056LDMDICT-ND	.58	4.62	3,000	163.00/M
P-Channel SOT-563 — RoHS Compliant								
5	20	0.860	0.092	DMP2104VDICT-ND	.66	5.28	3,000	186.00/M
	50	0.160	6	DMP58D0SVDICT-ND	.62	4.85	3,000	140.00/M
P-Channel SC-59 — RoHS Compliant								
1	20	4.6	0.029	DMP2066LSNDICT-ND	.66	5.28	3,000	186.00/M
	20	0.700	0.23	DMP2012SNDICT-ND	.59	4.20	3,000	101.00/M
	30	0.700	0.20	DMP3030SNDICT-ND	.44	3.42	3,000	99.00/M
P-Channel DFN1411-3 — RoHS Compliant								
8	20	1.5	0.240	DMP2104LPDICT-ND	.47	3.71	3,000	107.00/M
P-Channel DFN2020B-6 — RoHS Compliant								
9	20	3.5	0.060	DMS2220LFDBDICT-ND	.55	4.40	3,000	155.00/M
NEW! P-Channel DFN3020B-8 — RoHS Compliant NEW!								
10	20	2.9	0.095	DMS2120LFWB-7DICT-ND	.58	4.62	3,000	163.00/M
Single P-Channel SO-8								
11	20	0.12	4.3	DI9405CT-ND	2.35	20.17	—	—
	20	0.12	5.3	DI9430CT-ND	2.47	21.21	—	—
	30	0.064	5.3	DI9435CT-ND	2.50	21.46	—	—
	30	0.24	3.4	DI9400CT-ND	2.26	19.40	—	—
	30	7.3	0.016	DMG4435SSS-13DICT-ND◆ ***NEW!***	.72	5.72	2,500	202.00/M
P-Channel SOP-8 — RoHS Compliant								
11	20	6.5	0.040	DMP2066LSSDICT-ND	.74	5.94	2,500	209.00/M
	30	12	0.0116	DMP3020LSSDICT-ND	.84	7.22	2,500	276.00/M
	30	13	0.009	DMP3015LSSDICT-ND	.95	8.50	2,500	350.00/M
NEW! P-Channel SOP-8L — RoHS Compliant NEW!								
11	30	10.5	0.0075	DMG4413LSS-13DICT-ND	1.10	9.86	2,500	406.00/M
NEW! P-Channel DPAK — RoHS Compliant NEW!								
12	30	10.6	0.025	DMP3025LK3-13DICT-ND	.77	6.16	2,500	217.00/M
	40	7.2	0.051	DMP4051LK3-13DICT-ND	.66	5.28	2,500	186.00/M
	60	4.4	0.125	ZXMP6A17KTCDICT-ND	.99	8.55	2,500	326.00/M
P-Channel 8-DFN								
13	20	2.9	0.060	DMS2220LFWDICT-ND	.58	4.62	3,000	163.00/M
NEW! P-Channel DFN-3 — RoHS Compliant NEW!								
14	16	2.5	0.039	DMG3415UFY4-7DICT-ND	.55	4.40	3,000	155.00/M
	20	2.5	0.054	DMP2069UFY4-7DICT-ND	.55	4.40	3,000	155.00/M
Dual P-Channel SOP-8 — RoHS Compliant								
11	20	5.8	0.029	DMP2066LSDDICT-ND	.79	6.84	2,500	261.00/M
Dual P-Channel SOT-26 — RoHS Compliant								
4	20	2.0	0.240	DMP2240UDMDICT-ND	.50	3.96	3,000	140.00/M
Dual P-Channel SOT-563 — RoHS Compliant								
5	20	0.53	2.0	DMP2004VKDICT-ND	.51	3.99	3,000	116.00/M
	20	1.03	0.75	DMG1023UV-7DICT-ND ***NEW!***	.47	3.71	3,000	107.00/M
	50	160	4.6	DMP57D5UVDICT-ND	.64	5.02	3,000	145.00/M
Dual P-Channel SOT-363 — RoHS Compliant								
4	50	0.130	6	BSS84DW-FDICT-ND	.54	4.28	3,000	123.75/M
N-Channel/P-Channel Array SOT-363 — RoHS Compliant								
4	60 50	0.115 0.130	10	BSS8402DW-FDICT-ND	.55	4.40	3,000	155.00/M
NEW! N-Channel/P-Channel SOT-563 — RoHS Compliant NEW!								
5	20	0.87 0.64	0.4	DMG1016V-7DICT-ND	.58	4.13	3,000	99.00/M
NEW! N-Channel/P-Channel SO-8 — RoHS Compliant NEW!								
11	30	5.5 5.8	0.028	DMC3028LSD-13DICT-ND	.66	5.28	2,500	186.00/M
Dual N and P-Channel SO-8								
11	20	0.11 0.35	3 2.5	DI9942CT-ND	2.72	23.27	—	—
	30	0.11 0.24	3.7 2.9	DI9952CT-ND	2.81	24.05	—	—

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair
§ For Tape and Reel part number, change CT-ND to TR-ND. ◆ *RoHS Compliant*

Application Specific

Digi-Reel®

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	T & R Pricing§ 3,000
SOT-26					
PNP Transistor/N-Mosfet 200mA Load Switch	LMN200B01DICT-ND	.50	3.96	29.70	140.00/M
PNP Transistor/N-Mosfet 400mA Load Switch	LMN400B01DICT-ND	.50	3.96	29.70	140.00/M
SOT-363					
PNP Transistor/N-Mosfet 200mA Load Switch	LMN200B02DICT-ND	.54	4.28	29.25	124.00/M
PNP Transistor/N-Mosfet 400mA Load Switch	LMN400E01DICT-ND	.50	3.96	29.70	140.00/M
Synchronous Rectifier with N-Mosfet and Schottky Diode 200mA	NMSD200B01DICT-ND	.66	5.28	39.60	186.00/M
Complex Transistor Array for Half H-Bridge	HBDM60V600WDICT-ND	.44	3.42	23.40	99.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND

Pre-Biased Small Signal Transistors

Digi-Reel®

Dimensions in mm

SOT-363

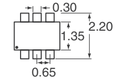

SC-74R/SOT-26

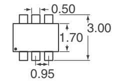

SOT-563

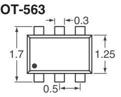

SOT-523

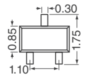

DFN1006-3

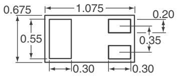

SOT-353 *NEW!*

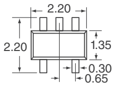

Fig. 1

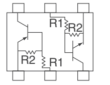

Fig. 2

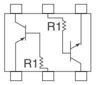

Fig. 3

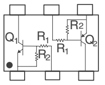

Fig. 4

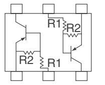

Fig. 5

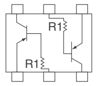

Fig. 6

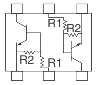

Fig. 7

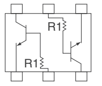

Fig. 8

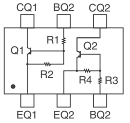

Fig. 9

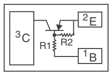

Fig. 10

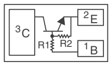

Fig. 11

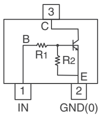

Fig. 12 *NEW!*

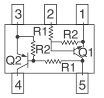

Fig.	HFE Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	T&R Pricing§ 3,000
Complementary NPN/PNP SOT-363 — RoHS Compliant								
1	100	10K	10K	DCX114EU-FDICT-ND	.50	3.60	21.60	72.00/M
	100	10K	47K	DCX114YU-FDICT-ND	.50	3.60	21.60	72.00/M
	100	2.2K	47K	DCX123JU-FDICT-ND	.50	3.60	21.60	72.00/M
	100	22K	22K	DCX124EU-FDICT-ND	.50	3.60	21.60	72.00/M
	100	4.7K	4.7K	DCX143EU-FDICT-ND	.50	3.60	21.60	72.00/M
	100	47K	47K	DCX144EU-FDICT-ND	.53	3.75	25.00	90.00/M
2	100	4.7K	—	DCX143TU-FDICT-ND	.50	3.60	21.60	72.00/M
Complementary NPN/PNP SC-74R/SOT-26 — RoHS Compliant								
1	100	22K	22K	DCX124EK-FDICT-ND	.50	3.60	21.60	72.00/M
Complementary NPN/PNP SOT-563 — RoHS Compliant								
1	12/50	10K/10K	10K/47K	DCX4710HDICT-ND	.53	3.75	25.00	90.00/M
	33	1K	10K	DCX100NSDICT-ND	.58	4.56	31.20	132.00/M
Dual NPN/PNP SOT-563 — RoHS Compliant								
3	80	47K/2.2K	47K/47K	DEMD48DICT-ND	.59	4.20	28.00	101.00/M
Dual PNP SOT-363								
4	100	10K	10K	DDA114EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	10K	47K	DDA114YUDICT-ND	.45	3.51	24.04	—
	100	10K	47K	DDA114YU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	2.2K	47K	DDA123JUDICT-ND	.45	3.51	24.04	—
	100	2.2K	47K	DDA123JU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	22K	22K	DDA124EUDICT-ND	.45	3.51	24.04	—
	100	22K	22K	DDA124EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	47K	47K	DDA144EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
5	100	10K	—	DDA114TUDICT-ND	.45	3.51	24.04	—
	100	10K	—	DDA114TU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	4.7K	—	DDA143TUDICT-ND	.45	3.51	24.04	—
	100	4.7K	—	DDA143TU-FDICT-ND◆	.50	3.60	21.60	72.00/M
Dual NPN SOT-363								
6	100	10K	10K	DDC114EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	10K	47K	DDC114YU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	2.2K	47K	DDC123JU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	22K	22K	DDC124EUDICT-ND	.45	3.51	24.04	—
	100	22K	22K	DDC124EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	47K	47K	DDC144EU-FDICT-ND◆	.50	3.60	21.60	72.00/M
7	100	10K	—	DDC114TUDICT-ND	.45	3.51	24.04	—
	100	10K	—	DDC114TU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	100	4.7K	—	DDC143TUDICT-ND	.45	3.51	24.04	—
	100	4.7K	—	DDC143TU-FDICT-ND◆	.50	3.60	21.60	72.00/M
	50	47K	—	DDC144TUDICT-ND◆	.50	3.60	21.60	72.00/M
8	100	47K	47K	DDC144NSDICT-ND◆	.44	3.42	23.40	99.00/M
PNP DFN1006-3 — RoHS Compliant								
9	90	47K	47K	DDTA144ELPDICT-ND	.51	3.99	27.30	116.00/M
NPN DFN1006-3 — RoHS Compliant								
10	10	10K	10K	DDTC114ELPDICT-ND	.51	3.99	27.30	116.00/M
	50	10K	47K	DDTC114YLPDICT-ND	.51	3.99	27.30	116.00/M
	50	2.2K	47K	DDTC123JLPDICT-ND	.51	3.99	27.30	116.00/M
NPN SOT-523 — RoHS Compliant								
11	80	4.7K	47K	DDTC143ZE-FDICT-ND	.53	3.62	17.03	—
NEW! Dual NPN/PNP SOT-353 — RoHS Compliant NEW!								
12	80	47K/47K	47K/4.7K	UMC4N-7DICT-ND	.50	3.96	29.70	140.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND. ◆ *RoHS Compliant*

Pre-Biased Transistors

Features: • Epitaxial Planar Die Construction **Mechanical Data:** • **Case Material:** UL Flammability Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

SOT-23

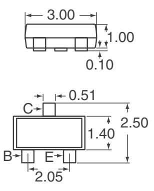

SOT-323

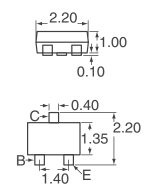

SOT-523

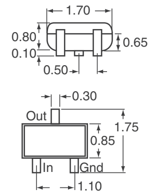

DFN1006-3

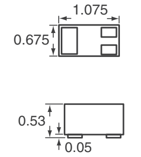

SC59-3 ***NEW!***

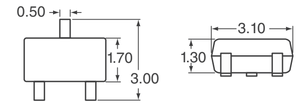

SOT-363 ***NEW!***

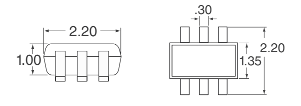

Fig. 1

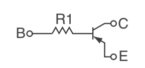

Fig. 2

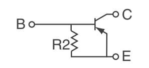

Fig. 3

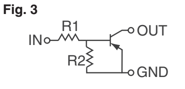

Fig. 4

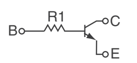

Fig. 5

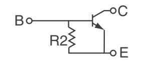

Fig. 6

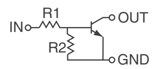

Fig. 7 ***NEW!***

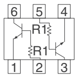

Fig.	Power Dissipation (mW)	Ic Max. (mA)	Min. HFE Gain	Nominal		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel* Pricing 3,000
				R1 (Ω)	R2 (Ω)		1	10	100	
						PNP SOT-23				
1	200	100	100	1K	—	DDTA113TCADICT-ND	.43	3.08	20.51	—
	200	100	100	1K	—	DDTA113TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	2.2K	—	DDTA123TCADICT-ND	.43	3.08	20.51	—
	200	100	100	2.2K	—	DDTA123TCA-FDICT-ND◆	.51	3.60	24.00	86.40/M
	200	100	100	4.7K	—	DDTA143TCADICT-ND	.43	3.08	20.51	—
	200	100	100	4.7K	—	DDTA143TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	10K	—	DDTA114TCADICT-ND	.43	3.08	20.51	—
	200	100	100	10K	—	DDTA114TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	22K	—	DDTA124TCADICT-ND	.43	3.08	20.51	—
	200	100	100	22K	—	DDTA124TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	47K	—	DDTA144TCADICT-ND	.43	3.08	20.51	—
	200	100	100	47K	—	DDTA144TCA-FDICT-ND◆	.50	3.40	16.00	47.00/M
	200	100	100	100K	—	DDTA115TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	200K	—	DDTA125TCADICT-ND	.43	3.08	20.51	—
	200	100	100	200K	—	DDTA125TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
2	200	100	30	—	10K	DDTA114GCADICT-ND	.43	3.08	20.51	—
	200	100	30	—	10K	DDTA114GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	—	22K	DDTA124GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	—	47K	DDTA144GCADICT-ND	.43	3.08	20.51	—
	200	100	68	—	47K	DDTA144GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	82	—	100K	DDTA115GCADICT-ND	.43	3.08	20.51	—
	200	100	82	—	100K	DDTA115GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
3	200	100	20	2.2K	2.2K	DDTA123ECADICT-ND	.43	3.08	20.51	—
	200	100	20	2.2K	2.2K	DDTA123ECA-FDICT-ND◆	.34	2.32	10.90	—
	200	100	20	4.7K	4.7K	DDTA143ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	24	10K	4.7K	DDTA114WCADICT-ND	.43	3.08	20.51	—
	200	100	24	10K	4.7K	DDTA114WCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	30	4.7K	10K	DDTA143XCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	30	10K	10K	DDTA114ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	33	1K	10K	DDTA113ZCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	33	2.2K	10K	DDTA123YCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	33	47K	10K	DDTA144VCADICT-ND	.43	3.08	20.51	—
	200	100	33	47K	10K	DDTA144VCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	22K	22K	DDTA124ECADICT-ND	.43	3.08	20.51	—
	200	100	56	22K	22K	DDTA124ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	47K	22K	DDTA144WCADICT-ND	.43	3.08	20.51	—
	200	100	56	47K	22K	DDTA144WCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	10K	47K	DDTA114YCADICT-ND	.43	3.08	20.51	—
	200	100	68	10K	47K	DDTA114YCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	22K	47K	DDTA124XCADICT-ND	.43	3.08	20.51	—
	200	100	68	22K	47K	DDTA124XCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	47K	47K	DDTA144ECADICT-ND	.43	3.08	20.51	—
	200	100	68	47K	47K	DDTA144ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	80	2.2K	47K	DDTA123JCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	80	4.7K	47K	DDTA143ZCADICT-ND	.43	3.08	20.51	—
	200	100	80	4.7K	47K	DDTA143ZCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	82	100K	100K	DDTA115ECADICT-ND	.43	3.08	20.51	—
	200	100	82	100K	100K	DDTA115ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	500	56	0.22K	10K	DDTB122LCDICT-ND	.43	3.08	20.51	—
	200	500	56	0.47K	10K	DDTB142JC-FDICT-ND◆	.51	3.60	24.00	86.40/M
3	200	500	250	0.22K	—	DDTB122TCDICT-ND	.43	3.08	20.51	—
	200	500	250	0.22K	—	DDTB122TC-FDICT-ND◆	.50	3.40	16.00	47.00/M
	200	500	250	0.47K	—	DDTB142TCDICT-ND	.43	3.08	20.51	—
	200	500	250	0.47K	—	DDTB142TC-FDICT-ND◆	.50	3.40	16.00	47.00/M
						PNP SOT-323				
1	200	100	100	1K	—	DDTA113TUADICT-ND	.43	3.08	20.51	—
	200	100	100	1K	—	DDTA113TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	2.2K	—	DDTA123TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	4.7K	—	DDTA143TUADICT-ND	.43	3.08	20.51	—
	200	100	100	4.7K	—	DDTA143TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	10K	—	DDTA114TUADICT-ND	.43	3.08	20.51	—
	200	100	100	10K	—	DDTA114TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	22K	—	DDTA124TUADICT-ND	.43	3.08	20.51	—
	200	100	100	22K	—	DDTA124TUA-FDICT-ND◆	.51	3.60	24.00	86.40/M
	200	100	100	100K	—	DDTA115TUADICT-ND	.43	3.08	20.51	—
	200	100	100	100K	—	DDTA115TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	200K	—	DDTA125TUADICT-ND	.43	3.08	20.51	—
	200	100	100	200K	—	DDTA125TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
2	200	100	30	—	10K	DDTA114GUADICT-ND	.43	3.08	20.51	—
	200	100	30	—	10K	DDTA114GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	—	22K	DDTA124GUADICT-ND	.43	3.08	20.51	—
	200	100	56	—	22K	DDTA124GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	—	47K	DDTA144GUADICT-ND	.43	3.08	20.51	—
	200	100	68	—	47K	DDTA144GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	82	—	100K	DDTA115GUADICT-ND	.43	3.08	20.51	—
	200	100	82	—	100K	DDTA115GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
3	200	100	33	1K	10K	DDTA113ZUADICT-ND	.43	3.08	20.51	—
	200	100	33	1K	10K	DDTA113ZUA-FDICT-ND◆	.38	2.61	12.26	—
	200	100	20	2.2K	2.2K	DDTA123EUADICT-ND	.43	3.08	20.51	—
	200	100	20	2.2K	2.2K	DDTA123EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	33	2.2K	10K	DDTA123YUADICT-ND	.43	3.08	20.51	—
	200	100	33	2.2K	10K	DDTA123YUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	80	2.2K	47K	DDTA123JUADICT-ND	.43	3.08	20.51	—
	200	100	80	2.2K	47K	DDTA123JUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	22K	22K	DDTA124EUA-7-FDICT-ND◆ ✔	.45	3.06	14.40	42.00/M
	200	100	20	4.7K	4.7K	DDTA143EUADICT-ND	.43	3.08	20.51	—
	200	100	20	4.7K	4.7K	DDTA143EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	30	4.7K	10K	DDTA143XUADICT-ND	.43	3.08	20.51	—
	200	100	30	4.7K	10K	DDTA143XUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	4.7K	22K	DDTA143FUADICT-ND	.43	3.08	20.51	—
	200	100	68	4.7K	22K	DDTA143FUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	80	4.7K	47K	DDTA143ZUADICT-ND	.43	3.08	20.51	—
	200	100	80	4.7K	47K	DDTA143ZUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	24	10K	4.7K	DDTA114WUADICT-ND	.43	3.08	20.51	—
	200	100	24	10K	4.7K	DDTA114WUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	30	10K	10K	DDTA114EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	10K	47K	DDTA114YUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	22K	47K	DDTA124XUADICT-ND	.43	3.08	20.51	—
	200	100	68	22K	47K	DDTA124XUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	33	47K	10K	DDTA144VUADICT-ND	.43	3.08	20.51	—
	200	100	33	47K	10K	DDTA144VUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	47K	22K	DDTA144WUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	47K	47K	DDTA144EUA-FDICT-ND◆	.38	2.61	12.26	—
	200	100	82	100K	100K	DDTA115EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	0.22K	10K	DDTA122LU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	0.47K	10K	DDTA142JUDICT-ND	.43	3.08	20.51	—
	200	100	56	0.47K	10K	DDTA142JU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	250	0.22K	—	DDTA122TU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	250	0.47K	—	DDTA142TU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	500	56	0.22K	10K	DDTB122LU-FDICT-ND◆	.63	4.25	20.00	58.75/M
	200	500	56	0.47K	10K	DDTB142JUDICT-ND	.43	3.08	20.51	—
	200	500	56	0.47K	10K	DDTB142JU-FDICT-ND◆	.63	4.25	20.00	58.75/M
	200	500	250	0.22K	—	DDTB122TUDICT-ND	.43	3.08	20.51	—
	200	500	250	0.22K	—	DDTB122TU-FDICT-ND◆	.63	4.25	20.00	58.75/M
						PNP SOT-523				
1	150	100	250	1K	—	DDTA113TEDICT-ND	.37	2.93	20.03	—
	150	100	250	1K	—	DDTA113TE-FDICT-ND◆	.44	3.42	23.40	99.00/M
	150	100	250	4.7K	—	DDTA143TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	47K	—	DDTA144TEDICT-ND	.37	2.93	20.03	—
	150	100	250	47K	—	DDTA144TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
2	150	100	68	—	47K	DDTA144GEDICT-ND	.37	2.93	20.03	—
	150	100	68	—	47K	DDTA144GE-FDICT-ND◆	.63	4.25	20.00	58.75/M
3	150	100	80	2.2K	47K	DDTA123JE-7-FDICT-ND◆ ✔	.63	4.25	20.00	59.00/M
	150	100	30	4.7K	10K	DDTA143XEDICT-ND	.37	2.93	20.03	—
	150	100	30	4.7K	10K	DDTA143XE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	4.7K	22K	DDTA143FEDICT-ND	.37	2.93	20.03	—
	150	100	68	4.7K	22K	DDTA143FE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	80	4.7K	47K	DDTA143ZEDICT-ND	.37	2.93	20.03	—
	150	100	80	4.7K	47K	DDTA143ZE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	33	47K	10K	DDTA144VEDICT-ND	.37	2.93	20.03	—
	150	100	33	47K	10K	DDTA144VE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	47K	22K	DDTA144WEDICT-ND	.37	2.93	20.03	—
	150	100	56	47K	22K	DDTA144WE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	47K	47K	DDTA144EEDICT-ND	.37	2.93	20.03	—
	150	100	68	47K	47K	DDTA144EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	0.22K	10K	DDTA122LEDICT-ND	.37	2.93	20.03	—
	150	100	56	0.22K	10K	DDTA122LE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	0.47K	10K	DDTA142JEDICT-ND	.37	2.93	20.03	—
	150	100	56	0.47K	10K	DDTA142JE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	0.22K	—	DDTA122TEDICT-ND	.37	2.93	20.03	—
	150	100	250	0.22K	—	DDTA122TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	0.47K	—	DDTA142TE-FDICT-ND◆	.63	4.25	20.00	58.75/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant*** ✔ ***NEW!*** *(Continued)*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Pre-Biased Transistors *(Cont.)*

Fig.	Power Dissipation (mW)	Ic Max. (mA)	Min. HFE Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel* Pricing 3,000
NEW! PNP SC-59-3 — RoHS Compliant NEW!										
3	200	100	30	10K	10K	DDTA114EKA-7-FDICT-ND◆	.40	2.72	12.80	38.00/M
NPN SOT-23										
4	200	100	100	1K	—	DDTC113TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	2.2K	—	DDTC123TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	4.7K	—	DDTC143TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	10K	—	DDTC114TCADICT-ND	.43	3.08	20.51	—
	200	100	100	10K	—	DDTC114TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	22	—	DDTC124TCADICT-ND	.43	3.08	20.51	—
	200	100	100	22	—	DDTC124TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	47K	—	DDTC144TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	100K	—	DDTC115TCADICT-ND	.43	3.08	20.51	—
	200	100	100	100K	—	DDTC115TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	100	200K	—	DDTC125TCADICT-ND	.43	3.08	20.51	—
	200	100	100	200K	—	DDTC125TCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
5	200	100	30	—	10K	DDTC114GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	—	22K	DDTC124GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	—	47K	DDTC144GCADICT-ND	.43	3.08	20.51	—
	200	100	68	—	47K	DDTC144GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	82	—	100K	DDTC115GCADICT-ND	.43	3.08	20.51	—
	200	100	82	—	100K	DDTC115GCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
6	200	100	20	2.2K	2.2K	DDTC123ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	20	4.7K	4.7K	DDTC143ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	24	10K	4.7K	DDTC114WCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	30	4.7K	10K	DDTC143XCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	30	10K	10K	DDTC114ECA-FDICT-ND◆	.38	2.55	12.00	35.25/M
	200	100	33	1K	10K	DDTC113ZCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	33	2.2K	10K	DDTC123YCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	33	47K	10K	DDTC144VCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	22K	22K	DDTC124ECADICT-ND	.43	3.08	20.51	—
	200	100	56	22K	22K	DDTC124ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	56	47K	22K	DDTC144WCADICT-ND	.43	3.08	20.51	—
	200	100	56	47K	22K	DDTC144WCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	4.7K	22K	DDTC143FCADICT-ND	.43	3.08	20.51	—
	200	100	68	4.7K	22K	DDTC143FCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	100	68	10K	47K	DDTC114YCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	200	68	22K	47K	DDTC124XCADICT-ND	.43	3.08	20.51	—
	200	200	68	22K	47K	DDTC124XCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	200	68	47K	47K	DDTC144ECADICT-ND	.43	3.08	20.51	—
	200	200	68	47K	47K	DDTC144ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	200	80	4.7K	47K	DDTC143ZCA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	200	82	100K	100K	DDTC115ECA-FDICT-ND◆	.40	2.72	12.80	37.60/M
	200	500	56	0.22K	10K	DDTD122LC-FDICT-ND◆	.55	3.74	17.60	51.70/M
	200	500	56	0.47K	10K	DDTD142JC-FDICT-ND◆	.50	3.40	16.00	47.00/M
	200	500	56	1K	10K	DDTD113ZC-7-FDICT-ND◆ ✔	.55	3.74	17.60	52.00/M
	200	500	100	2.2K	—	DDTD123TC-7-FDICT-ND◆ ✔	.55	3.74	17.60	52.00/M
	200	500	56	2.2K	10K	DDTD123YC-7-FDICT-ND◆ ✔	.55	3.74	17.60	52.00/M
	200	500	250	0.22K	—	DDTD122TCDICT-ND	.43	3.08	20.51	—
	200	500	250	0.22K	—	DDTD122TC-FDICT-ND◆	.55	3.74	17.60	51.70/M
	200	500	250	0.47K	—	DDTD142TCDICT-ND	.43	3.08	20.51	—
	200	500	250	0.47K	—	DDTD142TC-FDICT-ND◆	.55	3.74	17.60	51.70/M
NPN SOT-323										
4	200	100	100	1K	—	DDTC113TUADICT-ND	.43	3.08	20.51	—
	200	100	100	1K	—	DDTC113TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	2.2K	—	DDTC123TUADICT-ND	.43	3.08	20.51	—
	200	100	100	2.2K	—	DDTC123TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	4.7K	—	DDTC143TUADICT-ND	.43	3.08	20.51	—
	200	100	100	4.7K	—	DDTC143TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	10K	—	DDTC114TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	22K	—	DDTC124TUADICT-ND	.43	3.08	20.51	—
	200	100	100	22K	—	DDTC124TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	47K	—	DDTC144TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	100K	—	DDTC115TUADICT-ND	.43	3.08	20.51	—
	200	100	100	100K	—	DDTC115TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	100	200K	—	DDTC125TUADICT-ND	.43	3.08	20.51	—
	200	100	100	200K	—	DDTC125TUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
5	200	100	30	—	10K	DDTC114GUADICT-ND	.43	3.08	20.51	—
	200	100	30	—	10K	DDTC114GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	—	22K	DDTC124GUADICT-ND	.43	3.08	20.51	—
	200	100	56	—	22K	DDTC124GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	—	47K	DDTC144GUADICT-ND	.43	3.08	20.51	73.83/M
	200	100	68	—	47K	DDTC144GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	82	—	100K	DDTC115GUADICT-ND	.43	3.08	20.51	—
	200	100	82	—	100K	DDTC115GUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
6	200	100	20	2.2K	2.2K	DDTC123EUADICT-ND	.43	3.08	20.51	—
	200	100	20	2.2K	2.2K	DDTC123EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	20	4.7K	4.7K	DDTC143EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	30	10K	10K	DDTC114EUADICT-ND	.43	3.08	20.51	—
	200	100	30	10K	10K	DDTC114EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	22K	22K	DDTC124EUA-7-FDICT-ND◆ ✔	.45	3.06	14.40	42.00/M
	200	100	68	47K	47K	DDTC144EUADICT-ND	.43	3.08	20.51	—
	200	100	68	47K	47K	DDTC144EUA-FDICT-ND◆	.38	2.61	12.26	—
	200	100	82	100K	100K	DDTC115EUADICT-ND	.43	3.08	20.51	—
	200	100	82	100K	100K	DDTC115EUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	33	1K	10K	DDTC113ZUADICT-ND	.43	3.08	20.51	—
	200	100	33	1K	10K	DDTC113ZUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	33	2.2K	10K	DDTC123YUADICT-ND	.43	3.08	20.51	—
	200	100	33	2.2K	10K	DDTC123YUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	80	2.2K	47K	DDTC123JUADICT-ND	.43	3.08	20.51	—
	200	100	80	2.2K	47K	DDTC123JUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	30	4.7K	10K	DDTC143XU A-FDICT-ND◆	.45	3.06	14.40	—
6	200	100	68	4.7K	22K	DDTC143FUADICT-ND	.43	3.08	20.51	—
	200	100	68	4.7K	22K	DDTC143FUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	80	4.7K	47K	DDTC143ZUADICT-ND	.43	3.08	20.51	—
	200	100	80	4.7K	47K	DDTC143ZUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	10K	4.7K	DDTC114WUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	24	10K	47K	DDTC114YUADICT-ND	.43	3.08	20.51	—
	200	100	24	10K	47K	DDTC114YUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	68	22K	47K	DDTC124XUADICT-ND	.43	3.08	20.51	—
	200	100	68	22K	47K	DDTC124XUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	33	47K	10K	DDTC144VUADICT-ND	.43	3.08	20.51	—
	200	100	33	47K	10K	DDTC144VUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	47K	22K	DDTC144WUADICT-ND	.43	3.08	20.51	—
	200	100	56	47K	22K	DDTC144WUA-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	0.22K	10K	DDTC122LUDICT-ND	.43	3.08	20.51	—
	200	100	56	0.22K	10K	DDTC122LU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	56	0.47K	10K	DDTC142JUDICT-ND	.43	3.08	20.51	—
	200	100	56	0.47K	10K	DDTC142JU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	250	0.22K	—	DDTC122TUDICT-ND	.43	3.08	20.51	—
	200	100	250	0.22K	—	DDTC122TU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	100	250	0.47K	—	DDTC142TU-FDICT-ND◆	.45	3.06	14.40	42.30/M
	200	500	56	0.22K	10K	DDTD122LUDICT-ND	.43	3.08	20.51	—
	200	500	56	0.22K	10K	DDTD122LU-FDICT-ND◆	.60	4.08	19.20	56.40/M
	200	500	56	0.47K	10K	DDTD142JUDICT-ND	.43	3.08	20.51	—
	200	500	56	0.47K	10K	DDTD142JU-FDICT-ND◆	.60	4.08	19.20	56.40/M
	200	500	250	0.22K	—	DDTD122TUDICT-ND	.43	3.08	20.51	—
	200	500	250	0.22K	—	DDTD122TU-FDICT-ND◆	.60	4.08	19.20	56.40/M
	200	500	250	0.47K	—	DDTD142TUDICT-ND	.43	3.08	20.51	—
	200	500	250	0.47K	—	DDTD142TU-FDICT-ND◆	.51	3.47	16.35	—
NPN SOT-523										
4	150	100	250	1K	—	DDTC113TEDICT-ND	.37	2.93	20.03	—
	150	100	250	1K	—	DDTC113TE-FDICT-ND◆	.44	3.42	23.40	99.00/M
	150	100	250	2.2K	—	DDTC123TEDICT-ND	.37	2.93	20.03	—
	150	100	250	2.2K	—	DDTC123TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	4.7K	—	DDTC143TEDICT-ND	.37	2.93	20.03	—
	150	100	250	4.7K	—	DDTC143TE-FDICT-ND◆	.53	3.62	17.03	—
	150	100	250	10K	—	DDTC114TEDICT-ND	.37	2.93	20.03	—
	150	100	250	10K	—	DDTC114TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	22K	—	DDTC124TEDICT-ND	.37	2.93	20.03	—
	150	100	250	22K	—	DDTC124TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	47K	—	DDTC144TEDICT-ND	.37	2.93	20.03	—
	150	100	250	47K	—	DDTC144TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	100K	—	DDTC115TEDICT-ND	.37	2.93	20.03	—
	150	100	250	100K	—	DDTC115TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	200K	—	DDTC125TEDICT-ND	.37	2.93	20.03	—
	150	100	250	200K	—	DDTC125TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
5	150	100	30	—	10K	DDTC114GEDICT-ND	.37	2.93	20.03	—
	150	100	30	—	10K	DDTC114GE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	—	22K	DDTC124GE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	—	47K	DDTC144GEDICT-ND	.37	2.93	20.03	—
	150	100	68	—	47K	DDTC144GE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	82	—	100K	DDTC115GE-FDICT-ND◆	.63	4.25	20.00	58.75/M
6	150	100	33	1K	10K	DDTC113ZEDICT-ND	.37	2.93	20.03	—
	150	100	33	1K	10K	DDTC113ZE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	33	2.2K	10K	DDTC123YEDICT-ND	.37	2.93	20.03	—
	150	100	33	2.2K	10K	DDTC123YE-FDICT-ND◆	.53	3.62	17.03	—
	150	100	80	2.2K	47K	DDTC123JEDICT-ND	.37	2.93	20.03	—
	150	100	80	2.2K	47K	DDTC123JE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	30	4.7K	10K	DDTC143XEDICT-ND	.37	2.93	20.03	—
	150	100	30	4.7K	10K	DDTC143XE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	4.7K	22K	DDTC143FEDICT-ND	.37	2.93	20.03	—
	150	100	68	4.7K	22K	DDTC143FE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	80	4.7K	47K	DDTC143ZEDICT-ND	.37	2.93	20.03	—
	150	100	24	10K	4.7K	DDTC114WEDICT-ND	.37	2.93	20.03	—
	150	100	24	10K	4.7K	DDTC114WE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	10K	47K	DDTC114YE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	22K	47K	DDTC124XEDICT-ND	.37	2.93	20.03	—
	150	100	68	22K	47K	DDTC124XE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	33	47K	10K	DDTC144VEDICT-ND	.37	2.93	20.03	—
	150	100	33	47K	10K	DDTC144VE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	47K	22K	DDTC144WEDICT-ND	.37	2.93	20.03	—
	150	100	56	47K	22K	DDTC144WE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	20	2.2K	2.2K	DDTC123EEDICT-ND	.37	2.93	20.03	—
	150	100	20	2.2K	2.2K	DDTC123EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	20	4.7K	4.7K	DDTC143EEDICT-ND	.37	2.93	20.03	—
	150	100	20	4.7K	4.7K	DDTC143EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	30	10K	10K	DDTC114EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	68	47K	47K	DDTC144EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	82	100K	100K	DDTC115EE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	56	0.22K	10K	DDTC122LEDICT-ND	.37	2.93	20.03	—
	150	100	56	0.22K	10K	DDTC122LE-FDICT-ND◆	.42	3.00	18.00	60.00/M
	150	100	56	0.47K	10K	DDTC142JEDICT-ND	.37	2.93	20.03	—
	150	100	56	0.47K	10K	DDTC142JE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	0.22K	—	DDTC122TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
	150	100	250	0.47K	—	DDTC142TEDICT-ND	.37	2.93	20.03	—
	150	100	250	0.47K	—	DDTC142TE-FDICT-ND◆	.63	4.25	20.00	58.75/M
NPN DFN1006-3 — RoHS Compliant										
6	250	100	50	4.7K	47K	DDTC143ZLPDICT-ND	.51	3.99	27.30	116.00/M
NEW! NPN SC-59-3 — RoHS Compliant NEW!										
4	200	100	100	47K	—	DDTC144TKA-7-FDICT-ND	.40	2.72	12.80	38.00/M
6	200	100	30	10K	10K	DDTC114EKA-7-FDICT-ND	.38	2.55	12.00	35.00/M
NEW! DUAL NPN SOT-363 — RoHS Compliant NEW!										
7	200	100	100	1K	—	DDC113TU-7-FDICT-ND	.50	3.60	21.60	72.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant*** ✔ ***NEW!***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Zener Diodes

DO-35 Zener Diodes 500mW (+5%)

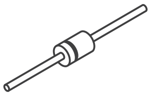

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 10,000
3.3	20	28	1N5226BDICT-ND	.53	3.57	16.80	63.00	—	—
3.6	20	24	1N5227BDICT-ND	.53	3.57	16.80	63.00	—	—
3.9	20	23	1N5228BDICT-ND	.53	3.57	16.80	63.00	1N5228BDITR-ND	35.70/M
4.3	20	22	1N5229BDICT-ND	.53	3.57	16.80	63.00	1N5229BDITR-ND	35.70/M
4.7	20	19	1N5230BDICT-ND	.53	3.57	16.80	63.00	1N5230BDITR-ND	35.70/M
5.1	20	17	1N5231BDICT-ND	.53	3.57	16.80	63.00	1N5231BDITR-ND	35.70/M
5.6	20	11	1N5232BDICT-ND	.53	3.57	16.80	63.00	1N5232BDITR-ND	35.70/M
6.0	20	7	1N5233BDICT-ND	.53	3.57	16.80	63.00	1N5233BDITR-ND	35.70/M
6.2	20	7	1N5234BDICT-ND	.53	3.57	16.80	63.00	1N5234BDITR-ND	35.70/M
6.8	20	5	1N5235BDICT-ND	.53	3.57	16.80	63.00	1N5235BDITR-ND	35.70/M
7.5	20	6	1N5236BDICT-ND	.53	3.57	16.80	63.00	1N5236BDITR-ND	35.70/M
8.2	20	8	1N5237BDICT-ND	.53	3.57	16.80	63.00	1N5237BDITR-ND	35.70/M
9.1	20	10	1N5239BDICT-ND	.53	3.57	16.80	63.00	1N5239BDITR-ND	35.70/M
10	20	17	1N5240BDICT-ND	.53	3.57	16.80	63.00	1N5240BDITR-ND	35.70/M
11	20	22	1N5241BDICT-ND	.53	3.57	16.80	63.00	1N5241BDITR-ND	35.70/M
12	20	30	1N5242BDICT-ND	.53	3.57	16.80	63.00	1N5242BDITR-ND	35.70/M
13	9.5	13	1N5243BDICT-ND	.53	3.57	16.80	63.00	1N5243BDITR-ND	35.70/M
14	9.0	15	1N5244BDICT-ND	.53	3.57	16.80	63.00	1N5244BDITR-ND	35.70/M
15	8.5	16	1N5245BDICT-ND	.53	3.57	16.80	63.00	1N5245BDITR-ND	35.70/M
16	7.8	17	1N5246BDICT-ND	.53	3.57	16.80	63.00	1N5246BDITR-ND	35.70/M
17	7.4	19	1N5247BDICT-ND	.53	3.57	16.80	63.00	1N5247BDITR-ND	35.70/M
18	7.0	21	1N5248BDICT-ND	.53	3.57	16.80	63.00	1N5248BDITR-ND	35.70/M
19	6.6	23	1N5249BDICT-ND	.45	3.04	14.31	53.64	—	—
20	6.2	25	1N5250BDICT-ND	.53	3.57	16.80	63.00	1N5250BDITR-ND	35.70/M
22	5.6	29	1N5251BDICT-ND	.45	3.04	14.31	53.64	—	—
24	5.2	33	1N5252BDICT-ND	.53	3.57	16.80	63.00	1N5252BDITR-ND	35.70/M
25	5.0	35	1N5253BDICT-ND	.45	3.04	14.31	53.64	—	—
27	4.6	41	1N5254BDICT-ND	.53	3.57	16.80	63.00	1N5254BDITR-ND	35.70/M
28	4.5	44	1N5255BDICT-ND	.53	3.57	16.80	63.00	1N5255BDITR-ND	35.70/M
30	4.2	49	1N5256BDICT-ND	.53	3.57	16.80	63.00	1N5256BDITR-ND	35.70/M
33	3.8	58	1N5257BDICT-ND	.45	3.04	14.31	53.64	—	—
36	3.4	70	1N5258BDICT-ND	.53	3.57	16.80	63.00	1N5258BDITR-ND	35.70/M
39	3.2	80	1N5259BDICT-ND	.53	3.57	16.80	63.00	1N5259BDITR-ND	35.70/M
43	3.0	93	1N5260BDICT-ND	.53	3.57	16.80	63.00	1N5260BDITR-ND	35.70/M
47	2.7	105	1N5261BDICT-ND	.45	3.04	14.31	53.64	1N5261BDITR-ND	36.00/M
51	2.5	125	1N5262BDICT-ND	.53	3.57	16.80	63.00	1N5262BDITR-ND	35.70/M

DO-41 Zener Diodes – 1W (+5%)

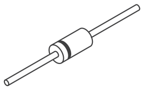

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000
3.3	76	10.0	1N4728ADICT-ND	.46	3.30	19.80	85.80	1N4728ADITR-ND	59.40/M
3.6	69	10.0	1N4729ADICT-ND	.46	3.30	19.80	85.80	1N4729ADITR-ND	59.40/M
3.9	64	9.0	1N4730ADICT-ND	.46	3.30	19.80	85.80	1N4730ADITR-ND	59.40/M
4.3	58	9.0	1N4731ADICT-ND	.46	3.30	19.80	85.80	1N4731ADITR-ND	59.40/M
4.7	53	8.0	1N4732ADICT-ND	.46	3.30	19.80	85.80	1N4732ADITR-ND	59.40/M
5.1	49	7.0	1N4733ADICT-ND	.46	3.30	19.80	85.80	1N4733ADITR-ND	59.40/M
5.6	45	5.0	1N4734ADICT-ND	.46	3.30	19.80	85.80	1N4734ADITR-ND	59.40/M
6.2	41	2.0	1N4735ADICT-ND	.46	3.30	19.80	85.80	1N4735ADITR-ND	59.40/M
6.8	37	3.5	1N4736ADICT-ND	.46	3.30	19.80	85.80	1N4736ADITR-ND	59.40/M
7.5	34	4.0	1N4737ADICT-ND	.46	3.30	19.80	85.80	1N4737ADITR-ND	59.40/M
8.2	31	4.5	1N4738ADICT-ND	.46	3.30	19.80	85.80	1N4738ADITR-ND	59.40/M
9.1	28	5.0	1N4739ADICT-ND	.46	3.30	19.80	85.80	1N4739ADITR-ND	59.40/M
10	25	7.0	1N4740ADICT-ND	.46	3.30	19.80	85.80	1N4740ADITR-ND	59.40/M
11	23	8	1N4741ADICT-ND	.46	3.30	19.80	85.80	1N4741ADITR-ND	59.40/M
12	21	9	1N4742ADICT-ND	.46	3.30	19.80	85.80	1N4742ADITR-ND	59.40/M
13	19	10	1N4743ADICT-ND	.46	3.30	19.80	85.80	1N4743ADITR-ND	59.40/M
15	17	14	1N4744ADICT-ND	.46	3.30	19.80	85.80	1N4744ADITR-ND	59.40/M
16	15	16	1N4745ADICT-ND	.46	3.30	19.80	85.80	1N4745ADITR-ND	59.40/M
18	14	20	1N4746ADICT-ND	.46	3.30	19.80	85.80	1N4746ADITR-ND	59.40/M
20	12.5	22	1N4747ADICT-ND	.46	3.30	19.80	85.80	1N4747ADITR-ND	59.40/M
22	11.5	23	1N4748ADICT-ND	.46	3.30	19.80	85.80	1N4748ADITR-ND	59.40/M
24	10.5	25	1N4749ADICT-ND	.46	3.30	19.80	85.80	1N4749ADITR-ND	59.40/M
27	9.5	35	1N4750ADICT-ND	.46	3.30	19.80	85.80	1N4750ADITR-ND	59.40/M
30	8.5	40	1N4751ADICT-ND	.46	3.30	19.80	85.80	1N4751ADITR-ND	59.40/M
33	7.5	45	1N4752ADICT-ND	.46	3.30	19.80	85.80	1N4752ADITR-ND	59.40/M
36	7	50	1N4753ADICT-ND	.46	3.30	19.80	85.80	1N4753ADITR-ND	59.40/M
39	6.5	60	1N4754ADICT-ND	.46	3.30	19.80	85.80	1N4754ADITR-ND	59.40/M
43	6	70	1N4755ADICT-ND	.46	3.30	19.80	85.80	1N4755ADITR-ND	59.40/M
47	55	80	1N4756ADICT-ND	.46	3.30	19.80	85.80	1N4756ADITR-ND	59.40/M
51	5	95	1N4757ADICT-ND	.46	3.30	19.80	85.80	1N4757ADITR-ND	59.40/M
56	4.5	110	1N4758ADICT-ND	.46	3.30	19.80	85.80	1N4758ADITR-ND	59.40/M
62	4	125	1N4759ADICT-ND	.46	3.30	19.80	85.80	1N4759ADITR-ND	59.40/M
68	3.7	150	1N4760ADICT-ND	.46	3.30	19.80	85.80	1N4760ADITR-ND	59.40/M
75	3.3	175	1N4761ADICT-ND	.46	3.30	19.80	85.80	1N4761ADITR-ND	59.40/M

PowerDI™ 123 Surface Mount Power Zener Diodes – 1W

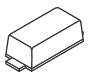

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.1	100	6	DFLZ5V1DICT-ND	.58	4.56	31.20	160.00	DFLZ5V1DITR-ND	132.00/M
5.6	100	4	DFLZ5V6DICT-ND	.58	4.56	31.20	160.00	DFLZ5V6DITR-ND	132.00/M
6.2	100	3	DFLZ6V2DICT-ND	.58	4.56	31.20	160.00	DFLZ6V2DITR-ND	132.00/M
6.8	100	3	DFLZ6V8DICT-ND	.58	4.56	31.20	160.00	DFLZ6V8DITR-ND	132.00/M
8.2	100	2	DFLZ8V2DICT-ND	.58	4.56	31.20	160.00	DFLZ8V2DITR-ND	132.00/M
9.1	50	4	DFLZ9V1DICT-ND	.58	4.56	31.20	160.00	DFLZ9V1DITR-ND	132.00/M
10	50	4	DFLZ10DICT-ND	.58	4.56	31.20	160.00	DFLZ10DITR-ND	132.00/M
12	50	7	DFLZ12DICT-ND	.58	4.56	31.20	160.00	DFLZ12DITR-ND	132.00/M
15	50	10	DFLZ15DICT-ND	.58	4.56	31.20	160.00	DFLZ15DITR-ND	132.00/M
16	25	15	DFLZ16DICT-ND	.58	4.56	31.20	160.00	DFLZ16DITR-ND	132.00/M
18	25	15	DFLZ18DICT-ND	.58	4.56	31.20	160.00	DFLZ18DITR-ND	132.00/M
20	25	15	DFLZ20DICT-ND	.58	4.56	31.20	160.00	DFLZ20DITR-ND	132.00/M
24	25	15	DFLZ24DICT-ND	.44	3.42	23.40	120.00	DFLZ24DITR-ND	99.00/M
27	25	15	DFLZ27DICT-ND	.58	4.56	31.20	160.00	DFLZ27DITR-ND	132.00/M
30	25	15	DFLZ30DICT-ND	.58	4.56	31.20	160.00	DFLZ30DITR-ND	132.00/M
33	25	15	DFLZ33DICT-ND	.58	4.56	31.20	160.00	DFLZ33DITR-ND	132.00/M
39	10	40	DFLZ39DICT-ND	.58	4.56	31.20	160.00	DFLZ39DITR-ND	132.00/M

PowerDI™ 323 Zener Diodes – 500mW

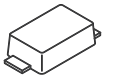

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
2.4	5.0	100	PD3Z284C2V4DICT-ND	.50	3.96	29.70	PD3Z284C2V4DITR-ND	140.00/M
2.7	5.0	100	PD3Z284C2V7DICT-ND	.50	3.96	29.70	PD3Z284C2V7DITR-ND	140.00/M
3.0	5.0	95	PD3Z284C3V0DICT-ND	.50	3.96	29.70	PD3Z284C3V0DITR-ND	140.00/M
3.3	5.0	95	PD3Z284C3V3DICT-ND	.50	3.96	29.70	PD3Z284C3V3DITR-ND	140.00/M
3.6	5.0	90	PD3Z284C3V6DICT-ND	.50	3.96	29.70	PD3Z284C3V6DITR-ND	140.00/M
3.9	5.0	90	PD3Z284C3V9DICT-ND	.50	3.96	29.70	PD3Z284C3V9DITR-ND	140.00/M
4.3	5.0	90	PD3Z284C4V3DICT-ND	.50	3.96	29.70	PD3Z284C4V3DITR-ND	140.00/M
4.7	5.0	80	PD3Z284C4V7DICT-ND	.50	3.96	29.70	PD3Z284C4V7DITR-ND	140.00/M
5.1	5.0	60	PD3Z284C5V1DICT-ND	.50	3.96	29.70	PD3Z284C5V1DITR-ND	140.00/M
5.6	5.0	40	PD3Z284C5V6DICT-ND	.50	3.96	29.70	PD3Z284C5V6DITR-ND	140.00/M
6.2	5.0	10	PD3Z284C6V2DICT-ND	.50	3.96	29.70	PD3Z284C6V2DITR-ND	140.00/M
6.8	5.0	15	PD3Z284C6V8DICT-ND	.50	3.96	29.70	PD3Z284C6V8DITR-ND	140.00/M
7.5	5.0	10	PD3Z284C7V5DICT-ND	.50	3.96	29.70	PD3Z284C7V5DITR-ND	140.00/M
8.2	5.0	10	PD3Z284C8V2DICT-ND	.50	3.96	29.70	PD3Z284C8V2DITR-ND	140.00/M
9.1	5.0	10	PD3Z284C9V1DICT-ND	.50	3.96	29.70	PD3Z284C9V1DITR-ND	140.00/M
10	5.0	10	PD3Z284C10DICT-ND	.50	3.96	29.70	PD3Z284C10DITR-ND	140.00/M
11	5.0	10	PD3Z284C11DICT-ND	.50	3.96	29.70	PD3Z284C11DITR-ND	140.00/M
12	5.0	10	PD3Z284C12DICT-ND	.50	3.96	29.70	PD3Z284C12DITR-ND	140.00/M
13	5.0	10	PD3Z284C13DICT-ND	.50	3.96	29.70	PD3Z284C13DITR-ND	140.00/M
15	5.0	15	PD3Z284C15DICT-ND	.50	3.96	29.70	PD3Z284C15DITR-ND	140.00/M
16	5.0	20	PD3Z284C16DICT-ND	.50	3.96	29.70	PD3Z284C16DITR-ND	140.00/M
18	5.0	20	PD3Z284C18DICT-ND	.50	3.96	29.70	PD3Z284C18DITR-ND	140.00/M
20	5.0	20	PD3Z284C20DICT-ND	.50	3.96	29.70	PD3Z284C20DITR-ND	140.00/M
22	5.0	25	PD3Z284C22DICT-ND	.50	3.96	29.70	PD3Z284C22DITR-ND	140.00/M
24	5.0	30	PD3Z284C24DICT-ND	.50	3.96	29.70	PD3Z284C24DITR-ND	140.00/M
27	2.0	40	PD3Z284C27DICT-ND	.50	3.96	29.70	PD3Z284C27DITR-ND	140.00/M
30	2.0	40	PD3Z284C30DICT-ND	.50	3.96	29.70	PD3Z284C30DITR-ND	140.00/M
33	2.0	40	PD3Z284C33DICT-ND	.50	3.96	29.70	PD3Z284C33DITR-ND	140.00/M
36	2.0	60	PD3Z284C36DICT-ND	.50	3.96	29.70	PD3Z284C36DITR-ND	140.00/M
39	2.0	75	PD3Z284C39DICT-ND	.50	3.96	29.70	PD3Z284C39DITR-ND	140.00/M

SOD-123 Surface Mount Zener Diodes – 500mW

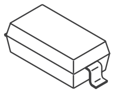

Zener Voltage VZ@IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Imp. ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
				BZT Series				
2.0	5	100	BZT52C2V0-7-FDICT-ND◆✔	.38	2.55	12.00	BZT52C2V0-7-FDITR-ND◆✔	35.00/M
2.4	5	100	BZT52C2V4-FDICT-ND◆	.38	2.55	12.00	BZT52C2V4-FDITR-ND◆	35.25/M
2.4	5	100	—	—	—	—	BZT52C2V4-13DITR-ND†	78.00/M
2.7	5	100	BZT52C2V7-FDICT-ND◆	.38	2.55	12.00	BZT52C2V7-FDITR-ND◆	35.25/M
3.0	5	95	BZT52C3V0-FDICT-ND◆	.38	2.55	12.00	BZT52C3V0-FDITR-ND◆	35.25/M
3.0	5	95	—	—	—	—	BZT52C3V0-13DITR-ND†	78.00/M
3.3	5	95	BZT52C3V3-FDICT-ND◆	.38	2.55	12.00	BZT52C3V3-FDITR-ND◆	35.25/M
3.3	5	95	—	—	—	—	BZT52C3V3-13DITR-ND†	78.00/M
3.6	5	90	BZT52C3V6-7DICT-ND	.45	3.20	21.36	—	—
3.6	5	90	BZT52C3V6-FDICT-ND◆	.38	2.55	12.00	BZT52C3V6-FDITR-ND◆	35.25/M
3.9	5	90	BZT52C3V9-FDICT-ND◆	.38	2.55	12.00	BZT52C3V9-FDITR-ND◆	35.25/M
4.3	5	90	BZT52C4V3-FDICT-ND◆	.38	2.55	12.00	BZT52C4V3-FDITR-ND◆	35.25/M
4.3	5	90	—	—	—	—	BZT52C4V3-13DITR-ND†	78.00/M
4.7	5	80	BZT52C4V7-FDICT-ND◆	.38	2.55	12.00	BZT52C4V7-FDITR-ND◆	35.25/M
4.7	5	80	BZT52C4V7-13-FDICT-ND◆	.38	2.55	12.00	BZT52C4V7-13-FDITR-ND◆†	25.50/M
4.7	5	80	—	—	—	—	BZT52C4V7-13DITR-ND†	78.00/M
5.1	5	60	BZT52C5V1-FDICT-ND◆	.38	2.55	12.00	BZT52C5V1-FDITR-ND◆	35.25/M
5.1	5	60	—	—	—	—	BZT52C5V1-13DITR-ND†	78.00/M
5.6	5	40	BZT52C5V6-FDICT-ND◆	.38	2.55	12.00	BZT52C5V6-FDITR-ND◆	35.25/M
5.6	5	40	—	—	—	—	BZT52C5V6-13DITR-ND†	78.00/M
6.2	5	10	BZT52C6V2-FDICT-ND◆	.38	2.55	12.00	BZT52C6V2-FDITR-ND◆	35.25/M
6.2	5	10	—	—	—	—	BZT52C6V2-13DITR-ND†	78.00/M

† Tape and Reel Qty. 10,000 ◆ *RoHS Compliant* ✔ ***NEW!*** *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Zener Diodes

SOD-123 Surface Mount Zener Diodes – 500mW *(Cont.)*

Digi-Reel®

Zener Voltage VZ@IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Imp. ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
6.8	5	15	BZT52C6V8-FDICT-ND◆	.38	2.55	12.00	BZT52C6V8-FDITR-ND◆	35.25/M
6.8	5	15	—	—	—	—	BZT52C6V8-13DITR-ND†	78.00/M
7.5	5	15	BZT52C7V5-7DICT-ND	.45	3.20	21.36	—	—
7.5	5	15	BZT52C7V5-FDICT-ND◆	.38	2.55	12.00	BZT52C7V5-FDITR-ND◆	35.25/M
7.5	5	15	—	—	—	—	BZT52C7V5-13DITR-ND†	78.00/M
8.2	5	15	BZT52C8V2-FDICT-ND◆	.38	2.55	12.00	BZT52C8V2-FDITR-ND◆	35.25/M
8.2	5	15	—	—	—	—	BZT52C8V2-13DITR-ND†	78.00/M
9.1	5	15	BZT52C9V1-FDICT-ND◆	.38	2.55	12.00	BZT52C9V1-FDITR-ND◆	35.25/M
9.1	5	15	—	—	—	—	BZT52C9V1-13DITR-ND†	78.00/M
10	5	20	BZT52C10-FDICT-ND◆	.38	2.55	12.00	BZT52C10-FDITR-ND◆	35.25/M
11	5	20	BZT52C11-FDICT-ND◆	.38	2.55	12.00	BZT52C11-FDITR-ND◆	35.25/M
11	5	20	—	—	—	—	BZT52C11-13DITR-ND†	78.00/M
12	5	25	BZT52C12-FDICT-ND◆	.38	2.55	12.00	BZT52C12-FDITR-ND◆	35.25/M
12	5	25	—	—	—	—	BZT52C12-13DITR-ND†	78.00/M
12	5	25	BZT52C1213-FDICT-ND◆	.38	2.55	12.00	BZT52C1213-FDITR-ND†◆	26.00/M
13	5	30	BZT52C13-FDICT-ND◆	.38	2.55	12.00	BZT52C13-FDITR-ND◆	35.25/M
15	5	30	BZT52C15-FDICT-ND◆	.38	2.55	12.00	BZT52C15-FDITR-ND◆	35.25/M
15	5	30	—	—	—	—	BZT52C15-13DITR-ND†	78.00/M
16	5	40	BZT52C16-FDICT-ND◆	.38	2.55	12.00	BZT52C16-FDITR-ND◆	35.25/M
16	5	40	—	—	—	—	BZT52C16-13DITR-ND†	78.00/M
18	5	45	BZT52C18-FDICT-ND◆	.38	2.55	12.00	BZT52C18-FDITR-ND◆	35.25/M
18	5	45	—	—	—	—	BZT52C18-13DITR-ND†	78.00/M
20	5	55	BZT52C20-FDICT-ND◆	.38	2.55	12.00	BZT52C20-FDITR-ND◆	35.25/M
20	5	55	—	—	—	—	BZT52C20-13DITR-ND†	78.00/M
22	5	55	BZT52C22-7DICT-ND	.45	3.20	21.36	—	—
22	5	55	BZT52C22-FDICT-ND◆	.38	2.55	12.00	BZT52C22-FDITR-ND◆	35.25/M
22	5	55	—	—	—	—	BZT52C22-13DITR-ND†	78.00/M
24	5	70	BZT52C24-FDICT-ND◆	.38	2.55	12.00	BZT52C24-FDITR-ND◆	35.25/M
24	5	70	—	—	—	—	BZT52C24-13DITR-ND†	78.00/M
27	2	80	BZT52C27-7DICT-ND	.45	3.20	21.36	—	—
27	2	80	BZT52C27-FDICT-ND◆	.38	2.55	12.00	BZT52C27-FDITR-ND◆	35.25/M
27	2	80	BZT52C27-13-FDICT-ND◆	.38	2.55	12.00	BZT52C27-13-FDITR-ND◆†	25.50/M
30	2	80	BZT52C30-FDICT-ND◆	.38	2.55	12.00	BZT52C30-FDITR-ND◆	35.25/M
30	2	80	—	—	—	—	BZT52C30-13DITR-ND†	78.00/M
33	2	80	BZT52C33-FDICT-ND◆	.38	2.55	12.00	BZT52C33-FDITR-ND◆	35.25/M
36	2	90	BZT52C36-FDICT-ND◆	.38	2.55	12.00	BZT52C36-FDITR-ND◆	35.25/M
36	2	90	—	—	—	—	BZT52C36-13DITR-ND†	78.00/M
39	2	130	BZT52C39-FDICT-ND◆	.38	2.55	12.00	BZT52C39-FDITR-ND◆	35.25/M
39	2	130	—	—	—	—	BZT52C39-13DITR-ND†	78.00/M
43	2	100	BZT52C43-7DICT-ND	.45	3.20	21.36	—	—
43	5	100	BZT52C43-FDICT-ND◆	.38	2.55	12.00	BZT52C43-FDITR-ND◆	35.25/M
47	5	100	BZT52C47-FDICT-ND◆	.38	2.55	12.00	BZT52C47-FDITR-ND◆	35.25/M
51	5	100	BZT52C51-FDICT-ND◆	.38	2.55	12.00	BZT52C51-FDITR-ND◆	35.25/M
MMSZ Series								
2.4	20	30	MMSZ5221B-FDICT-ND◆	.40	2.72	12.80	MMSZ5221B-FDITR-ND◆	37.60/M
2.7	20	30	MMSZ5223B-FDICT-ND◆	.40	2.72	12.80	MMSZ5223B-FDITR-ND◆	37.60/M
3.0	20	30	MMSZ5225BDICT-ND	.45	3.20	21.36	—	—
3.0	20	30	MMSZ5225B-FDICT-ND◆	.40	2.72	12.80	MMSZ5225B-FDITR-ND◆	37.60/M
3.3	20	28	MMSZ5226B-FDICT-ND◆	.40	2.72	12.80	MMSZ5226B-FDITR-ND◆	37.60/M
3.6	20	24	MMSZ5227BDICT-ND	.45	3.20	21.36	—	—
3.6	20	24	MMSZ5227B-FDICT-ND◆	.40	2.72	12.80	MMSZ5227B-FDITR-ND◆	37.60/M
3.9	20	23	MMSZ5228B-FDICT-ND◆	.40	2.72	12.80	MMSZ5228B-FDITR-ND◆	37.60/M
4.3	20	22	MMSZ5229B-FDICT-ND◆	.40	2.72	12.80	MMSZ5229B-FDITR-ND◆	37.60/M
4.7	20	19	MMSZ5230B-FDICT-ND◆	.40	2.72	12.80	MMSZ5230B-FDITR-ND◆	37.60/M
5.1	20	17	MMSZ5231B-FDICT-ND◆	.40	2.72	12.80	MMSZ5231B-FDITR-ND◆	37.60/M
5.6	20	11	MMSZ5232B-FDICT-ND◆	.40	2.72	12.80	MMSZ5232B-FDITR-ND◆	37.60/M
6.0	20	7	MMSZ5233B-FDICT-ND◆	.40	2.72	12.80	MMSZ5233B-FDITR-ND◆	37.60/M
6.2	20	7	MMSZ5234B-FDICT-ND◆	.40	2.72	12.80	MMSZ5234B-FDITR-ND◆	37.60/M
6.8	20	5	MMSZ5235B-FDICT-ND◆	.40	2.72	12.80	MMSZ5235B-FDITR-ND◆	37.60/M
7.5	20	6	MMSZ5236B-FDICT-ND◆	.40	2.72	12.80	MMSZ5236B-FDITR-ND◆	37.60/M
8.2	20	8	MMSZ5237B-FDICT-ND◆	.40	2.72	12.80	MMSZ5237B-FDITR-ND◆	37.60/M
8.7	20	8	MMSZ5238B-FDICT-ND◆	.40	2.72	12.80	MMSZ5238B-FDITR-ND◆	37.60/M
9.1	20	10	MMSZ5239B-FDICT-ND◆	.40	2.72	12.80	MMSZ5239B-FDITR-ND◆	37.60/M
10	20	17	MMSZ5240B-FDICT-ND◆	.40	2.72	12.80	MMSZ5240B-FDITR-ND◆	37.60/M
11	20	22	MMSZ5241B-FDICT-ND◆	.40	2.72	12.80	MMSZ5241B-FDITR-ND◆	37.60/M
12	20	30	MMSZ5242B-FDICT-ND◆	.40	2.72	12.80	MMSZ5242B-FDITR-ND◆	37.60/M
13	9.5	13	MMSZ5243B-FDICT-ND◆	.40	2.72	12.80	MMSZ5243B-FDITR-ND◆	37.60/M
15	8.5	16	MMSZ5245B-FDICT-ND◆	.40	2.72	12.80	MMSZ5245B-FDITR-ND◆	37.60/M
16	7.8	17	MMSZ5246B-FDICT-ND◆	.40	2.72	12.80	MMSZ5246B-FDITR-ND◆	37.60/M
18	7.0	21	MMSZ5248B-FDICT-ND◆	.40	2.72	12.80	MMSZ5248B-FDITR-ND◆	37.60/M
20	6.2	25	MMSZ5250BDICT-ND	.45	3.20	21.36	—	—
20	6.2	25	MMSZ5250B-FDICT-ND◆	.40	2.72	12.80	MMSZ5250B-FDITR-ND◆	37.60/M
22	5.6	29	MMSZ5251BDICT-ND	.45	3.20	21.36	—	—
22	5.6	29	MMSZ5251B-FDICT-ND◆	.40	2.72	12.80	MMSZ5251B-FDITR-ND◆	37.60/M
24	5.2	33	MMSZ5252B-FDICT-ND◆	.40	2.72	12.80	MMSZ5252B-FDITR-ND◆	37.60/M
27	5.0	41	MMSZ5254B-FDICT-ND◆	.40	2.72	12.80	MMSZ5254B-FDITR-ND◆	37.60/M
28	4.5	44	MMSZ5255BDICT-ND	.45	3.20	21.36	—	—
28	4.5	44	MMSZ5255B-FDICT-ND◆	.40	2.72	12.80	MMSZ5255B-FDITR-ND◆	37.60/M
30	4.2	49	MMSZ5256BDICT-ND	.45	3.20	21.36	—	—
30	4.2	49	MMSZ5256B-FDICT-ND◆	.40	2.72	12.80	MMSZ5256B-FDITR-ND◆	37.60/M
33	3.8	58	MMSZ5257B-FDICT-ND◆	.40	2.72	12.80	MMSZ5257B-FDITR-ND◆	37.60/M
36	3.4	70	MMSZ5258B-FDICT-ND◆	.40	2.72	12.80	MMSZ5258B-FDITR-ND◆	37.60/M
39	3.2	80	MMSZ5259B-FDICT-ND◆	.40	2.72	12.80	MMSZ5259B-FDITR-ND◆	37.60/M
56	2.2	150	MMSZ5263B-7-FDICT-ND ◆✔	.53	3.57	16.80	MMSZ5263B-7-FDITR-ND ◆✔	49.00/M
DDZ Series — RoHS Compliant								
1.8	.05	—	DDZ9678DICT-ND	.60	4.08	19.20	DDZ9678DITR-ND	56.00/M
5.1	.05	—	DDZ9689DICT-ND	.49	3.50	21.00	DDZ9689DITR-ND	70.00/M
5.1	20	17	DDZ5V1BDICT-ND	.45	3.06	14.40	DDZ5V1BDITR-ND	42.30/M
5.6	.05	—	DDZ9690DICT-ND	.42	3.00	18.00	DDZ9690DITR-ND	60.00/M
5.6	20	11	DDZ5V6BDICT-ND	.38	2.48	10.80	DDZ5V6BDITR-ND	29.16/M
6.2	.05	—	DDZ9691DICT-ND	.60	4.08	19.20	DDZ9691DITR-ND	56.40/M
6.2	20	7	DDZ6V2BDICT-ND	.45	3.06	14.40	DDZ6V2BDITR-ND	42.30/M
6.8	.05	—	DDZ9692DICT-ND	.42	3.00	18.00	DDZ9692DITR-ND	60.00/M
7.5	.05	—	DDZ9693DICT-ND	.42	3.00	18.00	DDZ9693DITR-ND	60.00/M
7.5	20	6	DDZ7V5CDICT-ND	.45	3.06	14.40	DDZ7V5CDITR-ND	42.30/M
8.2	.05	—	DDZ9694DICT-ND	.60	4.08	19.20	DDZ9694DITR-ND	56.40/M
8.2	20	8	DDZ8V2CDICT-ND	.45	3.06	14.40	DDZ8V2CDITR-ND	42.30/M
9.1	.05	—	DDZ9696DICT-ND	.60	4.08	19.20	DDZ9696DITR-ND	56.40/M
9.1	20	8	DDZ9V1CDICT-ND	.42	3.00	18.00	DDZ9V1CDITR-ND	60.00/M
10	.05	—	DDZ9697DICT-ND	.55	3.74	17.60	DDZ9697DITR-ND	51.70/M
12	.05	—	DDZ9699DICT-ND	.60	4.08	19.20	DDZ9699DITR-ND	56.40/M
13	10	14	DDZ13BDICT-ND	.45	3.06	14.40	DDZ13BDITR-ND	42.30/M
15	.05	—	DDZ9702DICT-ND	.42	3.00	18.00	DDZ9702DITR-ND	60.00/M
17	.05	—	DDZ9704DICT-ND	.60	4.08	19.20	DDZ9704DITR-ND	56.00/M
18	.05	—	DDZ9705DICT-ND	.60	4.08	19.20	DDZ9705DITR-ND	56.40/M
18	10	23	DDZ18CDICT-ND	.45	3.06	14.40	DDZ18CDITR-ND	42.30/M
20	.05	—	DDZ9707DICT-ND	.42	3.00	18.00	DDZ9707DITR-ND	60.00/M
20	10	28	DDZ20CDICT-ND	.45	3.06	14.40	DDZ20CDITR-ND	42.30/M
24	.05	—	DDZ9709DICT-ND	.60	4.08	19.20	DDZ9709DITR-ND	56.40/M
24	5	35	DDZ24CDICT-ND	.45	3.06	14.40	DDZ24CDITR-ND	42.30/M
27	.05	—	DDZ9711DICT-ND	.42	3.00	18.00	DDZ9711DITR-ND	60.00/M

† Tape and Reel Qty.10,000 ◆ ***RoHS Compliant*** ✔***NEW!***

SOD-323 Surface Mount Zener Diodes – 200mW

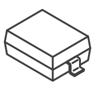

Digi-Reel®

Zener Voltage VZ@IZT Nom. (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
BZT Series								
2.0	5	100	BZT52C2V0S-7-FDICT-ND◆✔	.50	3.40	16.00	BZT52C2V0S-7-FDITR-ND◆✔	47.00/M
2.4	5	100	BZT52C2V4S-FDICT-ND◆	.50	3.40	16.00	BZT52C2V4S-FDITR-ND◆	47.00/M
2.7	5	100	BZT52C2V7S-FDICT-ND◆	.56	4.00	24.00	BZT52C2V7S-FDITR-ND◆	80.00/M
3.0	5	95	BZT52C3V0S-FDICT-ND◆	.56	4.00	24.00	BZT52C3V0S-FDITR-ND◆	80.00/M
3.3	5	95	BZT52C3V3S-FDICT-ND◆	.50	3.40	16.00	BZT52C3V3S-FDITR-ND◆	47.00/M
3.6	5	90	BZT52C3V6S-FDICT-ND◆	.50	3.40	16.00	BZT52C3V6S-FDITR-ND◆	47.00/M
3.9	5	90	BZT52C3V9S-FDICT-ND◆	.50	3.40	16.00	BZT52C3V9S-FDITR-ND◆	47.00/M
4.3	5	90	BZT52C4V3S-FDICT-ND◆	.50	3.40	16.00	BZT52C4V3S-FDITR-ND◆	47.00/M
4.7	5	80	BZT52C4V7S-FDICT-ND◆	.50	3.40	16.00	BZT52C4V7S-FDITR-ND◆	47.00/M
5.1	5	60	BZT52C5V1S-FDICT-ND◆	.50	3.40	16.00	BZT52C5V1S-FDITR-ND◆	47.00/M
5.6	5	40	BZT52C5V6S-FDICT-ND◆	.50	3.40	16.00	BZT52C5V6S-FDITR-ND◆	47.00/M
6.2	5	10	BZT52C6V2S-FDICT-ND◆	.50	3.40	16.00	BZT52C6V2S-FDITR-ND◆	47.00/M
6.8	5	15	BZT52C6V8S-FDICT-ND◆	.50	3.40	16.00	BZT52C6V8S-FDITR-ND◆	47.00/M
7.5	5	15	BZT52C7V5SDICT-ND	.50	3.52	23.50	—	—
7.5	5	15	BZT52C7V5S-FDICT-ND◆	.50	3.40	16.00	BZT52C7V5S-FDITR-ND◆	47.00/M
8.2	5	15	BZT52C8V2S-FDICT-ND◆	.50	3.40	16.00	BZT52C8V2S-FDITR-ND◆	47.00/M
9.1	5	15	BZT52C9V1S-FDICT-ND◆	.50	3.40	16.00	BZT52C9V1S-FDITR-ND◆	47.00/M
10	5	20	BZT52C10S-FDICT-ND◆	.50	3.40	16.00	BZT52C10S-FDITR-ND◆	47.00/M
11	5	20	BZT52C11SDICT-ND	.50	3.52	23.50	—	—
11	5	20	BZT52C11S-FDICT-ND◆	.50	3.40	16.00	BZT52C11S-FDITR-ND◆	47.00/M
12	5	25	BZT52C12S-FDICT-ND◆	.43	2.89	13.60	BZT52C12S-FDITR-ND◆	39.95/M
13	5	30	BZT52C13S-FDICT-ND◆	.50	3.40	16.00	BZT52C13S-FDITR-ND◆	47.00/M
15	5	30	BZT52C15S-FDICT-ND◆	.50	3.40	16.00	BZT52C15S-FDITR-ND◆	47.00/M
16	5	40	BZT52C16S-FDICT-ND◆	.58	4.13	27.50	BZT52C16S-FDITR-ND◆	99.00/M
18	5	45	BZT52C18S-FDICT-ND◆	.50	3.40	16.00	BZT52C18S-FDITR-ND◆	47.00/M
20	5	55	BZT52C20S-FDICT-ND◆	.50	3.40	16.00	BZT52C20S-FDITR-ND◆	47.00/M
22	5	55	BZT52C22S-FDICT-ND◆	.50	3.40	16.00	BZT52C22S-FDITR-ND◆	47.00/M
24	5	70	BZT52C24S-FDICT-ND◆	.50	3.40	16.00	BZT52C24S-FDITR-ND◆	47.00/M
27	2	80	BZT52C27S-FDICT-ND◆	.50	3.40	16.00	BZT52C27S-FDITR-ND◆	47.00/M
30	2	80	BZT52C30SDICT-ND	.50	3.52	23.50	—	—
30	2	80	BZT52C30S-FDICT-ND◆	.50	3.40	16.00	BZT52C30S-FDITR-ND◆	47.00/M
33	2	80	BZT52C33S-FDICT-ND◆	.50	3.40	16.00	BZT52C33S-FDITR-ND◆	47.00/M
36	2	90	BZT52C36SDICT-ND	.50	3.52	23.50	—	—
36	2	90	BZT52C36S-FDICT-ND◆	.50	3.40	16.00	BZT52C36S-FDITR-ND◆	47.00/M
39	2	130	BZT52C39SDICT-ND	.50	3.52	23.50	—	—
39	2	130	BZT52C39S-FDICT-ND◆	.50	3.40	16.00	BZT52C39S-FDITR-ND◆	47.00/M
51	5	100	BZT52C51SDICT-ND◆	.50	3.40	16.00	BZT52C51SDITR-ND◆	47.00/M
MMSZ Series								
2.4	20	30	MMSZ5221BSDICT-ND	.50	3.52	23.50	—	—
2.4	20	30	MMSZ5221BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5221BS-FDITR-ND◆	47.00/M
2.7	20	30	MMSZ5223BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5223BS-FDITR-ND◆	60.00/M
3.0	20	30	MMSZ5225BSDICT-ND	.50	3.52	23.50	—	—
3.0	20	30	MMSZ5225BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5225BS-FDITR-ND◆	60.00/M
3.3	20	28	MMSZ5226BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5226BS-FDITR-ND◆	47.00/M
3.6	20	24	MMSZ5227BSDICT-ND	.50	3.52	23.50	—	—
3.6	20	24	MMSZ5227BS-FDICT-ND◆	.58	4.13	27.50	MMSZ5227BS-FDITR-ND◆	99.00/M
3.9	20	23	MMSZ5228BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5228BS-FDITR-ND◆	47.00/M
4.3	20	22	MMSZ5229BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5229BS-FDITR-ND◆	60.00/M
4.7	20	19	MMSZ5230BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5230BS-FDITR-ND◆	47.00/M
5.1	20	17	MMSZ5231BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5231BS-FDITR-ND◆	47.00/M
5.6	20	11	MMSZ5232BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5232BS-FDITR-ND◆	60.00/M
6.0	20	7	MMSZ5233BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5233BS-FDITR-ND◆	47.00/M
6.2	20	7	MMSZ5234BSDICT-ND	.50	3.52	23.50	—	—
6.2	20	7	MMSZ5234BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5234BS-FDITR-ND◆	60.00/M
6.8	20	5	MMSZ5235BSDICT-ND	.50	3.52	23.50	—	—
6.8	20	5	MMSZ5235BS-FDICT-ND◆	.43	2.90	13.62	—	—
7.5	20	6	MMSZ5236BSDICT-ND	.50	3.52	23.50	—	—
7.5	20	6	MMSZ5236BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5236BS-FDITR-ND◆	60.00/M
8.2	20	8	MMSZ5237BS-FDICT-ND◆	.58	4.13	27.50	MMSZ5237BS-FDITR-ND◆	99.00/M
8.7	20	8	MMSZ5238BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5238BS-FDITR-ND◆	47.00/M
9.1	20	10	MMSZ5239BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5239BS-FDITR-ND◆	60.00/M
10	20	17	MMSZ5240BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5240BS-FDITR-ND◆	60.00/M
11	20	22	MMSZ5241BSDICT-ND	.50	3.52	23.50	—	—

◆ ***RoHS Compliant*** ✔***NEW!***

(Continued)

DIODES Zener Diodes

SOD-323 Surface Mount Zener Diodes – 200mW *(Cont.)*

Zener Voltage VZ@IZT Nom. (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
11	20	22	MMSZ5241BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5241BS-FDITR-ND◆	47.00/M
12	20	30	MMSZ5242BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5242BS-FDITR-ND◆	60.00/M
13	9.5	13	MMSZ5243BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5243BS-FDITR-ND◆	47.00/M
15	8.5	16	MMSZ5245BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5245BS-FDITR-ND◆	60.00/M
16	7.8	17	MMSZ5246BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5246BS-FDITR-ND◆	47.00/M
18	7.0	21	MMSZ5248BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5248BS-FDITR-ND◆	60.00/M
20	6.2	25	MMSZ5250BSDICT-ND	.50	3.52	23.50	—	—
20	6.2	25	MMSZ5250BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5250BS-FDITR-ND◆	47.00/M
22	5.6	29	MMSZ5251BSDICT-ND	.50	3.52	23.50	—	—
22	5.6	29	MMSZ5251BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5251BS-FDITR-ND◆	47.00/M
24	5.2	33	MMSZ5252BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5252BS-FDITR-ND◆	47.00/M
27	5.0	41	MMSZ5254BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5254BS-FDITR-ND◆	47.00/M
28	4.5	44	MMSZ5255BSDICT-ND	.50	3.52	23.50	—	—
28	4.5	44	MMSZ5255BS-FDICT-ND◆	.42	3.00	18.00	MMSZ5255BS-FDITR-ND◆	60.00/M
30	4.2	49	MMSZ5256BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5256BS-FDITR-ND◆	47.00/M
33	3.8	58	MMSZ5257BSDICT-ND	.50	3.52	23.50	—	—
33	3.8	58	MMSZ5257BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5257BS-FDITR-ND◆	47.00/M
36	3.4	70	MMSZ5258BSDICT-ND	.50	3.52	23.50	—	—
36	3.4	70	MMSZ5258BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5258BS-FDITR-ND◆	47.00/M
39	3.2	80	MMSZ5259BSDICT-ND	.50	3.52	23.50	—	—
39	3.2	80	MMSZ5259BS-FDICT-ND◆	.50	3.40	16.00	MMSZ5259BS-FDITR-ND◆	47.00/M
DDZ Series — RoHS Compliant								
5.1	.05	—	DDZ9689S-7DICT-ND✔	.56	4.00	24.00	DDZ9689S-7DITR-ND✔	80.00/M
5.6	20	11	DDZ5V6BSDICT-ND	.55	3.74	17.60	DDZ5V6BSDITR-ND	51.70/M
6.8	.05	—	DDZ9692SDICT-ND	.42	3.00	18.00	DDZ9692SDITR-ND	60.00/M
6.8	20	5	DDZ6V8CSDICT-ND	.47	3.18	14.99	DDZ6V8CSDITR-ND	51.70/M
7.5	.05	—	DDZ9693SDICT-ND	.42	3.00	18.00	DDZ9693SDITR-ND	60.00/M
7.5	20	6	DDZ7V5CSDICT-ND	.55	3.74	17.60	DDZ7V5CSDITR-ND	51.70/M
8.2	.05	—	DDZ9694SDICT-ND	.56	4.00	24.00	DDZ9694SDITR-ND	80.00/M
9.1	20	8	DDZ9V1CSDICT-ND	.56	4.00	24.00	DDZ9V1CSDITR-ND	80.00/M
10	.05	—	DDZ9697SDICT-ND	.48	3.41	20.47	—	—
12	.05	—	DDZ9699SDICT-ND	.58	4.13	27.50	DDZ9699SDITR-ND	99.00/M
13	10	14	DDZ13BSDICT-ND	.55	3.74	17.60	DDZ13BSDITR-ND	51.70/M
15	.05	—	DDZ9702SDICT-ND	.56	4.00	24.00	DDZ9702SDITR-ND	80.00/M
18	.05	—	DDZ9705SDICT-ND	.56	4.00	24.00	DDZ9705SDITR-ND	80.00/M
18	10	23	DDZ18CSDICT-ND	.47	3.18	14.99	DDZ18CSDITR-ND	51.70/M
20	.05	—	DDZ9707SDICT-ND	.56	4.00	24.00	DDZ9707SDITR-ND	80.00/M
20	10	28	DDZ20CSDICT-ND	.55	3.74	17.60	DDZ20CSDITR-ND	51.70/M
24	.05	—	DDZ9709SDICT-ND	.36	2.56	15.35	DDZ9709SDITR-ND	60.00/M
24	5	35	DDZ24CSDICT-ND	.55	3.74	17.60	DDZ24CSDITR-ND	51.70/M
27	.05	—	DDZ9711SDICT-ND	.42	3.00	18.00	DDZ9711SDITR-ND	60.00/M
NEW! UDZ Series — RoHS Compliant NEW!								
5.1	5	80	UDZ5V1B-7DICT-ND	.42	3.00	18.00	UDZ5V1B-7DITR-ND	60.00/M
5.6	5	60	UDZ5V6B-7DICT-ND	.63	4.25	20.00	UDZ5V6B-7DITR-ND	59.00/M
6.2	5	60	UDZ6V2B-7DICT-ND	.63	4.25	20.00	UDZ6V2B-7DITR-ND	59.00/M
6.8	5	40	UDZ6V8B-7DICT-ND	.63	4.25	20.00	UDZ6V8B-7DITR-ND	59.00/M
7.5	5	30	UDZ7V5B-7DICT-ND	.63	4.25	20.00	UDZ7V5B-7DITR-ND	59.00/M
8.2	5	30	UDZ8V2B-7DICT-ND	.63	4.25	20.00	UDZ8V2B-7DITR-ND	59.00/M
9.1	5	30	UDZ9V1B-7DICT-ND	.63	4.25	20.00	UDZ9V1B-7DITR-ND	59.00/M
10	5	30	UDZ10B-7DICT-ND	.63	4.25	20.00	UDZ10B-7DITR-ND	59.00/M
11	5	30	UDZ11B-7DICT-ND	.63	4.25	20.00	UDZ11B-7DITR-ND	59.00/M
12	5	30	UDZ12B-7DICT-ND	.63	4.25	20.00	UDZ12B-7DITR-ND	59.00/M
13	5	37	UDZ13B-7DICT-ND	.63	4.25	20.00	UDZ13B-7DITR-ND	59.00/M
15	5	42	UDZ15B-7DICT-ND	.63	4.25	20.00	UDZ15B-7DITR-ND	59.00/M

◆ *RoHS Compliant* ✔***NEW!***

SOD-523 Surface Mount Zener Diodes – 300mW

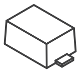

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
2.0	5	100	BZT52C2V0T-7DICT-ND✔	.63	4.25	20.00	BZT52C2V0T-7DITR-ND✔	59.00/M
2.4	5	100	BZT52C2V4T-7DICT-ND✔	.63	4.25	20.00	BZT52C2V4T-7DITR-ND✔	59.00/M
2.7	5	100	BZT52C2V7T-7DICT-ND✔	.63	4.25	20.00	BZT52C2V7T-7DITR-ND✔	59.00/M
3.0	5	95	BZT52C3V0T-7DICT-ND✔	.63	4.25	20.00	BZT52C3V0T-7DITR-ND✔	59.00/M
3.3	5	95	BZT52C3V3T-7DICT-ND✔	.63	4.25	20.00	BZT52C3V3T-7DITR-ND✔	59.00/M
3.6	5	90	BZT52C3V6T-7DICT-ND✔	.63	4.25	20.00	BZT52C3V6T-7DITR-ND✔	59.00/M
3.9	5	90	BZT52C3V9T-7DICT-ND✔	.63	4.25	20.00	BZT52C3V9T-7DITR-ND✔	59.00/M
4.3	5	90	BZT52C4V3T-7DICT-ND✔	.63	4.25	20.00	BZT52C4V3T-7DITR-ND✔	59.00/M
4.7	5	80	BZT52C4V7T-7DICT-ND✔	.63	4.25	20.00	BZT52C4V7T-7DITR-ND✔	59.00/M
5.1	5	60	BZT52C5V1T-7DICT-ND✔	.63	4.25	20.00	BZT52C5V1T-7DITR-ND✔	59.00/M
5.6	5	40	BZT52C5V6TDICT-ND	.63	4.25	20.00	BZT52C5V6TDITR-ND	58.75/M
6.2	5	10	BZT52C6V2T-7DICT-ND✔	.63	4.25	20.00	BZT52C6V2T-7DITR-ND✔	59.00/M
6.8	5	15	BZT52C6V8T-7DICT-ND✔	.51	3.60	24.00	BZT52C6V8T-7DITR-ND✔	58.75/M
7.5	5	15	BZT52C7V5T-7DICT-ND✔	.63	4.25	20.00	BZT52C7V5T-7DITR-ND✔	59.00/M
8.2	5	15	BZT52C8V2T-7DICT-ND✔	.63	4.25	20.00	BZT52C8V2T-7DITR-ND✔	59.00/M
9.1	5	15	BZT52C9V1TDICT-ND	.63	4.25	20.00	BZT52C9V1TDITR-ND	58.75/M
10	5	20	BZT52C10T-7DICT-ND✔	.63	4.25	20.00	BZT52C10T-7DITR-ND✔	59.00/M
11	5	20	BZT52C11T-7DICT-ND✔	.63	4.25	20.00	BZT52C11T-7DITR-ND✔	59.00/M
12	5	25	BZT52C12T-7DICT-ND✔	.63	4.25	20.00	BZT52C12T-7DITR-ND✔	59.00/M
13	5	30	BZT52C13TDICT-ND	.63	4.25	20.00	BZT52C13TDITR-ND	58.75/M
15	5	30	BZT52C15TDICT-ND	.53	3.62	17.03	—	—
16	5	40	BZT52C16TDICT-ND	.63	4.25	20.00	BZT52C16TDITR-ND	58.75/M
18	5	45	BZT52C18T-7DICT-ND✔	.63	4.25	20.00	BZT52C18T-7DITR-ND✔	59.00/M
20	5	55	BZT52C20T-7DICT-ND✔	.63	4.25	20.00	BZT52C20T-7DITR-ND✔	59.00/M
22	5	55	BZT52C22T-7DICT-ND✔	.63	4.25	20.00	BZT52C22T-7DITR-ND✔	59.00/M
24	5	70	BZT52C24TDICT-ND	.53	3.62	17.03	—	—

✔***NEW!***

DFN1006-2 Surface Mount Zener Diodes – 250mW

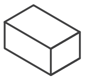

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Imp. ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
2.4	5	100	BZT52C2V4LPDICT-ND	.56	4.00	24.00	BZT52C2V4LPDITR-ND	80.00/M
2.7	5	100	BZT52C2V7LPDICT-ND	.56	4.00	24.00	BZT52C2V7LPDITR-ND	80.00/M
3.0	5	95	BZT52C3V0LPDICT-ND	.56	4.00	24.00	BZT52C3V0LPDITR-ND	80.00/M
3.3	5	95	BZT52C3V3LPDICT-ND	.56	4.00	24.00	BZT52C3V3LPDITR-ND	80.00/M
3.6	5	90	BZT52C3V6LPDICT-ND	.56	4.00	24.00	BZT52C3V6LPDITR-ND	80.00/M
3.9	5	90	BZT52C3V9LPDICT-ND	.56	4.00	24.00	BZT52C3V9LPDITR-ND	80.00/M
4.3	5	90	BZT52C4V3LPDICT-ND	.56	4.00	24.00	BZT52C4V3LPDITR-ND	80.00/M
4.7	5	80	BZT52C4V7LPDICT-ND	.56	4.00	24.00	BZT52C4V7LPDITR-ND	80.00/M
5.1	5	60	BZT52C5V1LP-7DICT-ND✔	.56	4.00	24.00	BZT52C5V1LP-7DITR-ND✔	80.00/M
5.6	5	40	BZT52C5V6LPDICT-ND	.56	4.00	24.00	BZT52C5V6LPDITR-ND	80.00/M
6.2	5	10	BZT52C6V2LPDICT-ND	.56	4.00	24.00	BZT52C6V2LPDITR-ND	80.00/M
6.8	5	15	BZT52C6V8LPDICT-ND	.56	4.00	24.00	BZT52C6V8LPDITR-ND	80.00/M
7.5	5	15	BZT52C7V5LPDICT-ND	.56	4.00	24.00	BZT52C7V5LPDITR-ND	80.00/M
8.2	5	15	BZT52C8V2LPDICT-ND	.56	4.00	24.00	BZT52C8V2LPDITR-ND	80.00/M
9.1	5	15	BZT52C9V1LPDICT-ND	.48	3.41	20.47	—	—
10	5	20	BZT52C10LPDICT-ND	.56	4.00	24.00	BZT52C10LPDITR-ND	80.00/M
11	5	20	BZT52C11LPDICT-ND	.48	3.41	20.47	—	—
13	5	30	BZT52C13LPDICT-ND	.56	4.00	24.00	BZT52C13LPDITR-ND	80.00/M
36	5	90	BZT52C36LPDICT-ND	.57	4.05	27.00	BZT52C36LPDITR-ND	97.00/M
39	5	130	BZT52C39LPDICT-ND	.56	4.00	24.00	BZT52C39LPDITR-ND	80.00/M

✔***NEW!***

MiniMELF (DL-35) Surface Mount Zener Diodes – 500mW

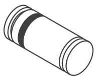

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
3.0	20	29	ZMM5225BDICT-ND	.46	3.30	19.80	ZMM5225BDITR-ND	66.00/M
3.3	20	28	ZMM5226BDICT-ND	.46	3.30	19.80	ZMM5226BDITR-ND	66.00/M
3.6	20	24	ZMM5227BDICT-ND	.46	3.30	19.80	ZMM5227BDITR-ND	66.00/M
3.9	20	23	ZMM5228BDICT-ND	.46	3.30	19.80	ZMM5228BDITR-ND	66.00/M
4.3	20	22	ZMM5229BDICT-ND	.46	3.30	19.80	ZMM5229BDITR-ND	66.00/M
4.7	20	19	ZMM5230BDICT-ND	.46	3.30	19.80	ZMM5230BDITR-ND	66.00/M
5.1	20	17	ZMM5231BDICT-ND	.46	3.30	19.80	ZMM5231BDITR-ND	66.00/M
5.6	20	11	ZMM5232BDICT-ND	.46	3.30	19.80	ZMM5232BDITR-ND	66.00/M
6.0	20	7	ZMM5233BDICT-ND	.46	3.30	19.80	ZMM5233BDITR-ND	66.00/M
6.2	20	7	ZMM5234BDICT-ND	.46	3.30	19.80	ZMM5234BDITR-ND	66.00/M
6.8	20	5	ZMM5235BDICT-ND	.46	3.30	19.80	ZMM5235BDITR-ND	66.00/M
7.5	20	6	ZMM5236BDICT-ND	.46	3.30	19.80	ZMM5236BDITR-ND	66.00/M
8.2	20	8	ZMM5237BDICT-ND	.46	3.30	19.80	ZMM5237BDITR-ND	66.00/M
8.7	20	8	ZMM5238BDICT-ND	.46	3.30	19.80	ZMM5238BDITR-ND	66.00/M
9.1	20	10	ZMM5239BDICT-ND	.46	3.30	19.80	ZMM5239BDITR-ND	66.00/M
10	20	17	ZMM5240BDICT-ND	.46	3.30	19.80	ZMM5240BDITR-ND	66.00/M
11	20	22	ZMM5241BDICT-ND	.46	3.30	19.80	ZMM5241BDITR-ND	66.00/M
12	20	30	ZMM5242BDICT-ND	.46	3.30	19.80	ZMM5242BDITR-ND	66.00/M
13	9.5	13	ZMM5243BDICT-ND	.46	3.30	19.80	ZMM5243BDITR-ND	66.00/M
14	9.0	15	ZMM5244BDICT-ND	.46	3.30	19.80	ZMM5244BDITR-ND	66.00/M
15	8.5	16	ZMM5245BDICT-ND	.46	3.30	19.80	ZMM5245BDITR-ND	66.00/M
16	7.8	17	ZMM5246BDICT-ND	.46	3.30	19.80	ZMM5246BDITR-ND	66.00/M
17	7.4	19	ZMM5247BDICT-ND	.46	3.30	19.80	ZMM5247BDITR-ND	66.00/M
18	7.0	21	ZMM5248BDICT-ND	.46	3.30	19.80	ZMM5248BDITR-ND	66.00/M
19	6.6	23	ZMM5249BDICT-ND	.39	2.81	16.89	—	—
20	6.2	25	ZMM5250BDICT-ND	.46	3.30	19.80	ZMM5250BDITR-ND	66.00/M
22	5.6	29	ZMM5251BDICT-ND	.46	3.30	19.80	ZMM5251BDITR-ND	66.00/M
24	5.2	33	ZMM5252BDICT-ND	.46	3.30	19.80	ZMM5252BDITR-ND	66.00/M
25	5.0	35	ZMM5253BDICT-ND	.39	2.81	16.89	—	—
27	4.6	41	ZMM5254BDICT-ND	.46	3.30	19.80	ZMM5254BDITR-ND	66.00/M
28	4.5	44	ZMM5255BDICT-ND	.46	3.30	19.80	ZMM5255BDITR-ND	66.00/M
30	4.2	49	ZMM5256BDICT-ND	.46	3.30	19.80	ZMM5256BDITR-ND	66.00/M
33	3.8	58	ZMM5257BDICT-ND	.46	3.30	19.80	ZMM5257BDITR-ND	66.00/M
36	3.4	70	ZMM5258BDICT-ND	.46	3.30	19.80	ZMM5258BDITR-ND	66.00/M
39	3.2	80	ZMM5259BDICT-ND	.46	3.30	19.80	ZMM5259BDITR-ND	66.00/M
43	3.0	93	ZMM5260BDICT-ND	.46	3.30	19.80	ZMM5260BDITR-ND	66.00/M
47	2.7	105	ZMM5261BDICT-ND	.46	3.30	19.80	ZMM5261BDITR-ND	66.00/M
51	2.5	125	ZMM5262BDICT-ND	.46	3.30	19.80	ZMM5262BDITR-ND	66.00/M
62	2.0	185	ZMM5265BDICT-ND	.46	3.30	19.80	ZMM5265BDITR-ND	66.00/M
68	1.8	230	ZMM5266BDICT-ND	.46	3.30	19.80	ZMM5266BDITR-ND	66.00/M

SOT-23 Surface Mount Zener Diodes – 300mW

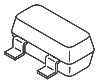

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	20	11	DDZX5V6BDICT-ND	.56	4.00	24.00	DDZX5V6BDITR-ND	80.00/M
6.2	20	7	DDZX6V2BDICT-ND	.45	3.06	14.40	DDZX6V2BDITR-ND	42.30/M
6.8	20	5	DDZX6V8CDICT-ND	.56	4.00	24.00	DDZX6V8CDITR-ND	80.00/M
7.5	20	6	DDZX7V5CDICT-ND	.50	3.40	16.00	DDZX7V5CDITR-ND	47.00/M
9.1	20	8	DDZX9V1CDICT-ND	.43	2.90	13.62	—	—
12	10	12	DDZX12CDICT-ND	.45	3.06	14.40	DDZX12CDITR-ND	42.30/M
13	10	14	DDZX13BDICT-ND	.45	3.06	14.40	DDZX13BDITR-ND	42.30/M
18	10	23	DDZX18CDICT-ND	.45	3.06	14.40	DDZX18CDITR-ND	42.30/M
20	10	28	DDZX20CDICT-ND	.45	3.06	14.40	DDZX20CDITR-ND	42.30/M
24	5	35	DDZX24CDICT-ND	.45	3.06	14.40	DDZX24CDITR-ND	42.30/M

(Continued)

SOT-23 Dual Surface Mount Zener Diodes – 300mW

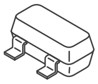

Digi-Reel®

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Common Anode								
2.7	5.0	83	AZ23C2V7-FDICT-ND◆	.50	3.60	21.60	AZ23C2V7-FDITR-ND◆	72.00/M
3.0	5.0	95	AZ23C3V0DICT-ND	.47	3.77	28.30	—	—
3.0	5.0	95	AZ23C3V0-FDICT-ND◆	.50	3.60	21.60	AZ23C3V0-FDITR-ND◆	72.00/M
3.3	5.0	95	AZ23C3V3-FDICT-ND◆	.50	3.60	21.60	AZ23C3V3-FDITR-ND◆	72.00/M
3.6	5.0	95	AZ23C3V6-FDICT-ND◆	.50	3.60	21.60	AZ23C3V6-FDITR-ND◆	72.00/M
3.9	5.0	95	AZ23C3V9DICT-ND	.47	3.77	28.30	—	—
3.9	5.0	95	AZ23C3V9-FDICT-ND◆	.50	3.60	21.60	AZ23C3V9-FDITR-ND◆	72.00/M
4.3	5.0	95	AZ23C4V3-FDICT-ND◆	.50	3.60	21.60	AZ23C4V3-FDITR-ND◆	72.00/M
4.7	5.0	78	AZ23C4V7-FDICT-ND◆	.50	3.60	21.60	AZ23C4V7-FDITR-ND◆	72.00/M
5.1	5.0	60	AZ23C5V1-FDICT-ND◆	.50	3.60	21.60	AZ23C5V1-FDITR-ND◆	72.00/M
5.6	5.0	40	AZ23C5V6-FDICT-ND◆	.56	4.00	24.00	AZ23C5V6-FDITR-ND◆	80.00/M
6.2	5.0	10	AZ23C6V2-FDICT-ND◆	.50	3.60	21.60	AZ23C6V2-FDITR-ND◆	72.00/M
6.8	5.0	8.0	AZ23C6V8-FDICT-ND◆	.56	4.00	24.00	AZ23C6V8-FDITR-ND◆	80.00/M
7.5	5.0	7.0	AZ23C7V5-FDICT-ND◆	.50	3.60	21.60	AZ23C7V5-FDITR-ND◆	72.00/M
8.2	5.0	7.0	AZ23C8V2-FDICT-ND◆	.50	3.60	21.60	AZ23C8V2-FDITR-ND◆	72.00/M
9.1	5.0	10	AZ23C9V1-FDICT-ND◆	.50	3.60	21.60	AZ23C9V1-FDITR-ND◆	72.00/M
10	5.0	15	AZ23C10-FDICT-ND◆	.50	3.60	21.60	AZ23C10-FDITR-ND◆	72.00/M
11	5.0	20	AZ23C11-FDICT-ND◆	.50	3.60	21.60	AZ23C11-FDITR-ND◆	72.00/M
12	5.0	20	AZ23C12-FDICT-ND◆	.56	4.00	24.00	AZ23C12-FDITR-ND◆	80.00/M
13	5.0	25	AZ23C13-FDICT-ND◆	.43	3.07	18.42	—	—
15	5.0	30	AZ23C15-FDICT-ND◆	.50	3.60	21.60	AZ23C15-FDITR-ND◆	72.00/M
16	5.0	40	AZ23C16-FDICT-ND◆	.50	3.60	21.60	AZ23C16-FDITR-ND◆	72.00/M
18	5.0	50	AZ23C18-FDICT-ND◆	.50	3.60	21.60	AZ23C18-FDITR-ND◆	72.00/M
20	5.0	50	AZ23C20-FDICT-ND◆	.50	3.60	21.60	AZ23C20-FDITR-ND◆	72.00/M
22	5.0	55	AZ23C22-FDICT-ND◆	.50	3.60	21.60	AZ23C22-FDITR-ND◆	72.00/M
24	5.0	80	AZ23C24-FDICT-ND◆	.50	3.60	21.60	AZ23C24-FDITR-ND◆	72.00/M
27	5.0	80	AZ23C27-FDICT-ND◆	.50	3.60	21.60	AZ23C27-FDITR-ND◆	72.00/M
30	5.0	80	AZ23C30-FDICT-ND◆	.50	3.60	21.60	AZ23C30-FDITR-ND◆	72.00/M
33	5.0	80	AZ23C33-FDICT-ND◆	.50	3.60	21.60	AZ23C33-FDITR-ND◆	72.00/M
36	5.0	90	AZ23C36-FDICT-ND◆	.50	3.60	21.60	AZ23C36-FDITR-ND◆	72.00/M
39	5.0	90	AZ23C39-FDICT-ND◆	.50	3.60	21.60	AZ23C39-FDITR-ND◆	72.00/M
43	5.0	100	AZ23C43-FDICT-ND◆	.56	4.00	24.00	AZ23C43-FDITR-ND◆	80.00/M
47	5.0	100	AZ23C47-FDICT-ND◆	.50	3.60	21.60	AZ23C47-FDITR-ND◆	72.00/M
51	5.0	100	AZ23C51DICT-ND	.47	3.77	28.30	—	—
51	5.0	100	AZ23C51-FDICT-ND◆	.50	3.60	21.60	AZ23C51-FDITR-ND◆	72.00/M
Common Cathode								
2.7	5.0	83	DZ23C2V7-FDICT-ND◆	.50	3.60	21.60	DZ23C2V7-FDITR-ND◆	72.00/M
3.0	5.0	95	DZ23C3V0DICT-ND	.42	3.40	25.47	—	—
3.0	5.0	95	DZ23C3V0-FDICT-ND◆	.50	3.60	21.60	DZ23C3V0-FDITR-ND◆	72.00/M
3.3	5.0	95	DZ23C3V3-FDICT-ND◆	.50	3.60	21.60	DZ23C3V3-FDITR-ND◆	72.00/M
3.6	5.0	95	DZ23C3V6DICT-ND	.42	3.40	25.47	—	—
3.6	5.0	95	DZ23C3V6-FDICT-ND◆	.50	3.60	21.60	DZ23C3V6-FDITR-ND◆	72.00/M
3.9	5.0	95	DZ23C3V9DICT-ND	.42	3.40	25.47	—	—
3.9	5.0	95	DZ23C3V9-FDICT-ND◆	.50	3.60	21.60	DZ23C3V9-FDITR-ND◆	72.00/M
4.3	5.0	95	DZ23C4V3-FDICT-ND◆	.50	3.60	21.60	DZ23C4V3-FDITR-ND◆	72.00/M
4.7	5.0	78	DZ23C4V7-FDICT-ND◆	.50	3.60	21.60	DZ23C4V7-FDITR-ND◆	72.00/M
5.1	5.0	60	DZ23C5V1-FDICT-ND◆	.50	3.60	21.60	DZ23C5V1-FDITR-ND◆	72.00/M
5.6	5.0	40	DZ23C5V6DICT-ND	.42	3.40	25.47	—	—
5.6	5.0	40	DZ23C5V6-FDICT-ND◆	.50	3.60	21.60	DZ23C5V6-FDITR-ND◆	72.00/M
6.2	5.0	10	DZ23C6V2DICT-ND	.42	3.40	25.47	—	—
6.2	5.0	10	DZ23C6V2-FDICT-ND◆	.50	3.96	29.70	DZ23C6V2-FDITR-ND◆	139.50/M
6.8	5.0	8.0	DZ23C6V8-FDICT-ND◆	.50	3.96	29.70	DZ23C6V8-FDITR-ND◆	139.50/M
7.5	5.0	7.0	DZ23C7V5-FDICT-ND◆	.50	3.60	21.60	DZ23C7V5-FDITR-ND◆	72.00/M
8.2	5.0	7.0	DZ23C8V2DICT-ND	.42	3.40	25.47	—	—
8.2	5.0	7.0	DZ23C8V2-FDICT-ND◆	.50	3.60	21.60	DZ23C8V2-FDITR-ND◆	72.00/M
9.1	5.0	10	DZ23C9V1-FDICT-ND◆	.50	3.60	21.60	DZ23C9V1-FDITR-ND◆	72.00/M
10	5.0	15	DZ23C10-FDICT-ND◆	.50	3.60	21.60	DZ23C10-FDITR-ND◆	72.00/M
11	5.0	20	DZ23C11DICT-ND	.42	3.40	25.47	—	—
11	5.0	20	DZ23C11-FDICT-ND◆	.50	3.60	21.60	DZ23C11-FDITR-ND◆	72.00/M
12	5.0	20	DZ23C12-FDICT-ND◆	.50	3.60	21.60	DZ23C12-FDITR-ND◆	72.00/M
13	5.0	25	DZ23C13-FDICT-ND◆	.50	3.60	21.60	DZ23C13-FDITR-ND◆	72.00/M
15	5.0	30	DZ23C15-FDICT-ND◆	.56	4.00	24.00	DZ23C15-FDITR-ND◆	80.00/M
16	5.0	40	DZ23C16-FDICT-ND◆	.50	3.60	21.60	DZ23C16-FDITR-ND◆	72.00/M
18	5.0	50	DZ23C18-FDICT-ND◆	.50	3.60	21.60	DZ23C18-FDITR-ND◆	72.00/M
20	5.0	50	DZ23C20-FDICT-ND◆	.50	3.60	21.60	DZ23C20-FDITR-ND◆	72.00/M
22	5.0	55	DZ23C22DICT-ND	.42	3.40	25.47	—	—
22	5.0	55	DZ23C22-FDICT-ND◆	.50	3.60	21.60	DZ23C22-FDITR-ND◆	72.00/M
24	5.0	80	DZ23C24-FDICT-ND◆	.50	3.60	21.60	DZ23C24-FDITR-ND◆	72.00/M
27	5.0	80	DZ23C27DICT-ND	.42	3.40	25.47	—	—
27	5.0	80	DZ23C27-FDICT-ND◆	.50	3.60	21.60	DZ23C27-FDITR-ND◆	72.00/M
30	5.0	80	DZ23C30-FDICT-ND◆	.50	3.60	21.60	DZ23C30-FDITR-ND◆	72.00/M
33	5.0	80	DZ23C33-FDICT-ND◆	.50	3.60	21.60	DZ23C33-FDITR-ND◆	72.00/M
36	5.0	90	DZ23C36DICT-ND	.42	3.40	25.47	—	—
36	5.0	90	DZ23C36-FDICT-ND◆	.50	3.60	21.60	DZ23C36-FDITR-ND◆	72.00/M
39	5.0	90	DZ23C39-FDICT-ND◆	.50	3.60	21.60	DZ23C39-FDITR-ND◆	72.00/M
43	5.0	100	DZ23C43DICT-ND	.42	3.40	25.47	—	—
43	5.0	100	DZ23C43-FDICT-ND◆	.50	3.60	21.60	DZ23C43-FDITR-ND◆	72.00/M
47	5.0	100	DZ23C47-FDICT-ND◆	.50	3.60	21.60	DZ23C47-FDITR-ND◆	72.00/M
51	5.0	100	DZ23C51-FDICT-ND◆	.50	3.60	21.60	DZ23C51-FDITR-ND◆	72.00/M

◆ *RoHS Compliant*

NEW! SOD-323F Surface Mount Zener Diodes – 500mW

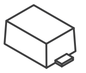

RoHS COMPLIANT

Digi-Reel®

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
14.26	10	40	DDZ15BSF-7DICT-ND	.45	3.20	19.20	DDZ15BSF-7DITR-ND	64.00/M

SOT-23 Surface Mount Zener Diodes – 350mW

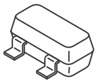

Digi-Reel®

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4-FDICT-ND◆	.49	3.22	14.00	BZX84C2V4-FDITR-ND◆	37.80/M
2.7	5.0	100	BZX84C2V7-FDICT-ND◆	.49	3.22	14.00	BZX84C2V7-FDITR-ND◆	37.80/M
3.0	5.0	95	BZX84C3V0-FDICT-ND◆	.49	3.22	14.00	BZX84C3V0-FDITR-ND◆	37.80/M
3.3	5.0	95	BZX84C3V3-FDICT-ND•◆	.49	3.22	14.00	BZX84C3V3-FDITR-ND◆	37.80/M
3.6	5.0	90	BZX84C3V6DICT-ND	.48	3.41	20.47	—	—
3.6	5.0	90	BZX84C3V6-FDICT-ND◆	.49	3.22	14.00	BZX84C3V6-FDITR-ND◆	37.80/M
3.9	5.0	90	BZX84C3V9-FDICT-ND•◆	.49	3.22	14.00	BZX84C3V9-FDITR-ND◆	37.80/M
4.3	5.0	90	BZX84C4V3DICT-ND	.48	3.41	20.47	—	—
4.3	5.0	90	BZX84C4V3-FDICT-ND◆	.49	3.22	14.00	BZX84C4V3-FDITR-ND◆	37.80/M
4.7	5.0	80	BZX84C4V7-FDICT-ND◆	.49	3.22	14.00	BZX84C4V7-FDITR-ND◆	37.80/M
5.1	5.0	60	BZX84C5V1-FDICT-ND•◆	.49	3.22	14.00	BZX84C5V1-FDITR-ND◆	37.80/M
5.6	5.0	40	BZX84C5V6-FDICT-ND•◆	.49	3.22	14.00	BZX84C5V6-FDITR-ND◆	37.80/M
6.2	5.0	10	BZX84C6V2-FDICT-ND•◆	.49	3.22	14.00	BZX84C6V2-FDITR-ND◆	37.80/M
6.8	5.0	15	BZX84C6V8-FDICT-ND•◆	.49	3.22	14.00	BZX84C6V8-FDITR-ND◆	37.80/M
7.5	5.0	15	BZX84C7V5-FDICT-ND◆	.49	3.22	14.00	BZX84C7V5-FDITR-ND◆	37.80/M
8.2	5.0	15	BZX84C8V2-FDICT-ND◆	.49	3.22	14.00	BZX84C8V2-FDITR-ND◆	37.80/M
9.1	5.0	15	BZX84C9V1-FDICT-ND•◆	.49	3.22	14.00	BZX84C9V1-FDITR-ND◆	37.80/M
10	5.0	20	BZX84C10-FDICT-ND•◆	.49	3.22	14.00	BZX84C10-FDITR-ND◆	37.80/M
11	5.0	20	BZX84C11-FDICT-ND◆	.49	3.22	14.00	BZX84C11-FDITR-ND◆	37.80/M
12	5.0	25	BZX84C12-FDICT-ND•◆	.49	3.22	14.00	BZX84C12-FDITR-ND◆	37.80/M
13	5.0	30	BZX84C13-FDICT-ND◆	.49	3.22	14.00	BZX84C13-FDITR-ND◆	37.80/M
15	5.0	30	BZX84C15-FDICT-ND•◆	.49	3.22	14.00	BZX84C15-FDITR-ND◆	38.00/M
16	5.0	40	BZX84C16-FDICT-ND◆	.49	3.22	14.00	BZX84C16-FDITR-ND◆	37.80/M
18	5.0	45	BZX84C18-FDICT-ND•◆	.49	3.22	14.00	BZX84C18-FDITR-ND◆	37.80/M
20	5.0	55	BZX84C20-FDICT-ND•◆	.49	3.22	14.00	BZX84C20-FDITR-ND◆	37.80/M
22	5.0	55	BZX84C22-FDICT-ND◆	.49	3.22	14.00	BZX84C22-FDITR-ND◆	37.80/M
24	5.0	70	BZX84C24-FDICT-ND•◆	.49	3.22	14.00	BZX84C24-FDITR-ND◆	37.80/M
27	2.0	80	BZX84C27-FDICT-ND◆	.49	3.22	14.00	BZX84C27-FDITR-ND◆	37.80/M
30	2.0	80	BZX84C30-FDICT-ND•◆	.49	3.22	14.00	BZX84C30-FDITR-ND◆	37.80/M
36	2.0	90	BZX84C36-FDICT-ND•◆	.49	3.22	14.00	BZX84C36-FDITR-ND◆	37.80/M
39	2.0	130	BZX84C39-FDICT-ND•◆	.49	3.22	14.00	BZX84C39-FDITR-ND◆	37.80/M
43	2.0	150	BZX84C43DICT-ND	.48	3.41	20.47	—	—
43	2.0	150	BZX84C43-FDICT-ND◆	.49	3.22	14.00	BZX84C43-FDITR-ND◆	37.80/M
47	2.0	170	BZX84C47DICT-ND	.48	3.41	20.47	—	—
47	2.0	170	BZX84C47-FDICT-ND•◆	.49	3.22	14.00	BZX84C47-FDITR-ND◆	37.80/M
51	2.0	180	BZX84C51-FDICT-ND◆	.49	3.22	14.00	BZX84C51-FDITR-ND◆	37.80/M
MMBZ Series								
2.4	20	30	MMBZ5221BDICT-ND	.48	3.41	20.47	—	—
2.4	20	30	MMBZ5221B-FDICT-ND◆	.49	3.22	14.00	MMBZ5221B-FDITR-ND◆	37.80/M
2.7	20	30	MMBZ5223B-FDICT-ND◆	.49	3.22	14.00	MMBZ5223B-FDITR-ND◆	37.80/M
3.0	20	30	MMBZ5225B-FDICT-ND◆	.46	2.99	13.00	MMBZ5225B-FDITR-ND◆	35.10/M
3.3	20	28	MMBZ5226B-FDICT-ND◆	.49	3.22	14.00	MMBZ5226B-FDITR-ND◆	37.80/M
3.6	20	24	MMBZ5227B-FDICT-ND◆	.49	3.22	14.00	MMBZ5227B-FDITR-ND◆	37.80/M
3.9	20	23	MMBZ5228BDICT-ND	.48	3.41	20.47	—	—
3.9	20	23	MMBZ5228B-FDICT-ND◆	.49	3.22	14.00	MMBZ5228B-FDITR-ND◆	37.80/M
4.3	20	22	MMBZ5229BDICT-ND	.48	3.41	20.47	—	—
4.3	20	22	MMBZ5229B-FDICT-ND◆	.46	2.99	13.00	MMBZ5229B-FDITR-ND◆	35.10/M
4.7	20	19	MMBZ5230B-FDICT-ND◆	.49	3.22	14.00	MMBZ5230B-FDITR-ND◆	37.80/M
5.1	20	17	MMBZ5231B-FDICT-ND◆	.49	3.22	14.00	MMBZ5231B-FDITR-ND◆	37.80/M
5.6	20	11	MMBZ5232B-FDICT-ND◆	.49	3.22	14.00	MMBZ5232B-FDITR-ND◆	37.80/M
6.0	20	7	MMBZ5233B-FDICT-ND◆	.49	3.22	14.00	MMBZ5233B-FDITR-ND◆	37.80/M
6.2	20	7	MMBZ5234B-FDICT-ND◆	.49	3.22	14.00	MMBZ5234B-FDITR-ND◆	37.80/M

◆ *RoHS Compliant*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Zener Diodes

SOT-23 Surface Mount Zener Diodes – 350mW *(Cont.)*

Digi-Reel®

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
6.8	20	5	MMBZ5235BDICT-ND	.48	3.41	20.47	—	—
6.8	20	5	MMBZ5235B-FDICT-ND◆	.49	3.22	14.00	MMBZ5235B-FDITR-ND◆	37.80/M
7.5	20	6	MMBZ5236B-FDICT-ND◆	.49	3.22	14.00	MMBZ5236B-FDITR-ND◆	37.80/M
8.2	20	8	MMBZ5237B-FDICT-ND◆	.49	3.22	14.00	MMBZ5237B-FDITR-ND◆	37.80/M
8.7	20	8	MMBZ5238B-FDICT-ND◆	.49	3.22	14.00	MMBZ5238B-FDITR-ND◆	37.80/M
9.1	20	10	MMBZ5239BDICT-ND	.48	3.41	20.47	—	—
9.1	20	10	MMBZ5239B-FDICT-ND◆	.49	3.22	14.00	MMBZ5239B-FDITR-ND◆	37.80/M
10	20	17	MMBZ5240BDICT-ND	.44	3.00	20.80	—	—
10	20	17	MMBZ5240B-FDICT-ND◆	.49	3.22	14.00	MMBZ5240B-FDITR-ND◆	37.80/M
11	20	22	MMBZ5241B-FDICT-ND◆	.49	3.22	14.00	MMBZ5241B-FDITR-ND◆	37.80/M
12	20	30	MMBZ5242B-FDICT-ND◆	.49	3.22	14.00	MMBZ5242B-FDITR-ND◆	37.80/M
13	9.5	13	MMBZ5243BDICT-ND	.48	3.41	20.47	—	—
13	9.5	13	MMBZ5243B-FDICT-ND◆	.49	3.22	14.00	MMBZ5243B-FDITR-ND◆	37.80/M
15	8.5	16	MMBZ5245B-FDICT-ND◆	.49	3.22	14.00	MMBZ5245B-FDITR-ND◆	37.80/M
16	7.8	17	MMBZ5246B-FDICT-ND◆	.49	3.22	14.00	MMBZ5246B-FDITR-ND◆	37.80/M
18	7.0	21	MMBZ5248B-FDICT-ND◆	.49	3.22	14.00	MMBZ5248B-FDITR-ND◆	37.80/M
20	6.2	25	MMBZ5250B-FDICT-ND◆	.49	3.22	14.00	MMBZ5250B-FDITR-ND◆	37.80/M
22	5.6	29	MMBZ5251B-FDICT-ND◆	.49	3.22	14.00	MMBZ5251B-FDITR-ND◆	37.80/M
24	5.2	33	MMBZ5252BDICT-ND	.48	3.41	20.47	—	—
24	5.2	33	MMBZ5252B-FDICT-ND◆	.49	3.22	14.00	MMBZ5252B-FDITR-ND◆	37.80/M
27	5.0	41	MMBZ5254BDICT-ND	.48	3.41	20.47	—	—
27	5.0	41	MMBZ5254B-FDICT-ND◆	.49	3.22	14.00	MMBZ5254B-FDITR-ND◆	37.80/M
28	4.5	44	MMBZ5255B-FDICT-ND◆	.49	3.22	14.00	MMBZ5255B-FDITR-ND◆	37.80/M
30	4.2	49	MMBZ5256BDICT-ND	.48	3.41	20.47	—	—
30	4.2	49	MMBZ5256B-FDICT-ND◆	.49	3.22	14.00	MMBZ5256B-FDITR-ND◆	37.80/M
33	3.8	58	MMBZ5257B-FDICT-ND◆	.49	3.22	14.00	MMBZ5257B-FDITR-ND◆	37.80/M
36	3.4	70	MMBZ5258BDICT-ND	.48	3.41	20.47	—	—
36	3.4	70	MMBZ5258B-FDICT-ND◆	.49	3.22	14.00	MMBZ5258B-FDITR-ND◆	37.80/M
39	3.2	80	MMBZ5259B-FDICT-ND◆	.49	3.22	14.00	MMBZ5259B-FDITR-ND◆	37.80/M

◆ *RoHS Compliant*

- **BZX2-KIT-ND** ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces) **$45.99**

SOT-323 Surface Mount Zener Diode – 200mW

Digi-Reel®

Zener Voltage VZ@IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
BZX Series								
2.4	5.0	100	BZX84C2V4WDICT-ND	.41	2.88	19.23	—	—
2.4	5.0	100	BZX84C2V4W-FDICT-ND◆	.41	2.88	19.23	—	—
2.7	5.0	100	BZX84C2V7WDICT-ND	.41	2.88	19.23	—	—
2.7	5.0	100	BZX84C2V7W-FDICT-ND◆	.36	2.56	15.35	—	—
3.0	5.0	95	BZX84C3V0WDICT-ND	.41	2.88	19.23	—	—
3.0	5.0	95	BZX84C3V0W-FDICT-ND◆	.42	3.00	18.00	BZX84C3V0W-FDITR-ND◆	60.00/M
3.3	5.0	95	BZX84C3V3W-FDICT-ND◆	.42	3.00	18.00	BZX84C3V3W-FDITR-ND◆	60.00/M
3.6	5.0	90	BZX84C3V6WDICT-ND	.41	2.88	19.23	—	—
3.6	5.0	90	BZX84C3V6W-FDICT-ND◆	.36	2.56	15.35	—	—
3.9	5.0	90	BZX84C3V9W-FDICT-ND◆	.42	3.00	18.00	BZX84C3V9W-FDITR-ND◆	60.00/M
4.3	5.0	90	BZX84C4V3W-FDICT-ND◆	.42	3.00	18.00	BZX84C4V3W-FDITR-ND◆	60.00/M
4.7	5.0	80	BZX84C4V7WDICT-ND	.41	2.88	19.23	—	—
4.7	5.0	80	BZX84C4V7W-FDICT-ND◆	.42	3.00	18.00	BZX84C4V7W-FDITR-ND◆	60.00/M
5.1	5.0	60	BZX84C5V1W-FDICT-ND◆	.42	3.00	18.00	BZX84C5V1W-FDITR-ND◆	60.00/M
5.6	5.0	40	BZX84C5V6W-FDICT-ND◆	.42	3.00	18.00	BZX84C5V6W-FDITR-ND◆	60.00/M
6.2	5.0	10	BZX84C6V2WDICT-ND	.41	2.88	19.23	—	—
6.2	5.0	10	BZX84C6V2W-FDICT-ND◆	.42	3.00	18.00	BZX84C6V2W-FDITR-ND◆	60.00/M
6.8	5.0	15	BZX84C6V8WDICT-ND	.41	2.88	19.23	—	—
6.8	5.0	15	BZX84C6V8W-FDICT-ND◆	.42	3.00	18.00	BZX84C6V8W-FDITR-ND◆	60.00/M
7.5	5.0	15	BZX84C7V5W-FDICT-ND◆	.48	3.38	22.50	BZX84C7V5W-FDITR-ND◆	81.00/M
8.2	5.0	15	BZX84C8V2WDICT-ND	.41	2.88	19.23	—	—
8.2	5.0	15	BZX84C8V2W-FDICT-ND◆	.48	3.38	22.50	BZX84C8V2W-FDITR-ND◆	81.00/M
9.1	5.0	15	BZX84C9V1W-FDICT-ND◆	.42	3.00	18.00	BZX84C9V1W-FDITR-ND◆	60.00/M
10	5.0	20	BZX84C10WDICT-ND	.41	2.88	19.23	—	—
10	5.0	20	BZX84C10W-FDICT-ND◆	.42	3.00	18.00	BZX84C10W-FDITR-ND◆	60.00/M
11	5.0	20	BZX84C11W-FDICT-ND◆	.42	3.00	18.00	BZX84C11W-FDITR-ND◆	60.00/M
12	5.0	25	BZX84C12W-FDICT-ND◆	.48	3.38	22.50	BZX84C12W-FDITR-ND◆	81.00/M
13	5.0	30	BZX84C13W-FDICT-ND◆	.36	2.56	15.35	—	—
15	5.0	30	BZX84C15W-FDICT-ND◆	.42	3.00	18.00	BZX84C15W-FDITR-ND◆	60.00/M
16	5.0	40	BZX84C16W-FDICT-ND◆	.36	2.56	15.35	—	—
18	5.0	45	BZX84C18W-FDICT-ND◆	.42	3.00	18.00	BZX84C18W-FDITR-ND◆	60.00/M
20	5.0	55	BZX84C20W-FDICT-ND◆	.42	3.00	18.00	BZX84C20W-FDITR-ND◆	60.00/M
22	5.0	55	BZX84C22W-FDICT-ND◆	.36	2.56	15.35	—	—
24	5.0	70	BZX84C24W-FDICT-ND◆	.36	2.56	15.35	—	—
27	2.0	80	BZX84C27WDICT-ND	.41	2.88	19.23	—	—
27	2.0	80	BZX84C27W-FDICT-ND◆	.36	2.56	15.35	—	—
30	2.0	80	BZX84C30W-FDICT-ND◆	.42	3.00	18.00	BZX84C30W-FDITR-ND◆	60.00/M
33	2.0	80	BZX84C33WDICT-ND	.41	2.88	19.23	—	—
33	2.0	80	BZX84C33W-FDICT-ND◆	.42	3.00	18.00	BZX84C33W-FDITR-ND◆	60.00/M
36	2.0	90	BZX84C36WDICT-ND	.41	2.88	19.23	—	—
36	2.0	90	BZX84C36W-FDICT-ND◆	.36	2.56	15.35	—	—
39	2.0	130	BZX84C39W-FDICT-ND◆	.42	3.00	18.00	BZX84C39W-FDITR-ND◆	60.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BWDICT-ND	.41	2.88	19.23	—	—
2.4	20	30	MMBZ5221BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5221BW-FDITR-ND◆	60.00/M
2.7	20	30	MMBZ5223BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5223BW-FDITR-ND◆	60.00/M
3.0	20	30	MMBZ5225BWDICT-ND	.41	2.88	19.23	—	—
3.0	20	30	MMBZ5225BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5225BW-FDITR-ND◆	60.00/M
3.3	20	28	MMBZ5226BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5226BW-FDITR-ND◆	60.00/M
3.6	20	24	MMBZ5227BWDICT-ND	.41	2.88	19.23	—	—
3.6	20	24	MMBZ5227BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5227BW-FDITR-ND◆	60.00/M
3.9	20	23	MMBZ5228BWDICT-ND	.41	2.88	19.23	—	—
3.9	20	23	MMBZ5228BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5228BW-FDITR-ND◆	60.00/M
4.3	20	22	MMBZ5229BW-FDICT-ND◆	.48	3.38	22.50	MMBZ5229BW-FDITR-ND◆	81.00/M
4.7	20	19	MMBZ5230BWDICT-ND	.41	2.88	19.23	—	—
4.7	20	19	MMBZ5230BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5230BW-FDITR-ND◆	60.00/M
5.1	20	17	MMBZ5231BWDICT-ND	.41	2.88	19.23	—	—
5.1	20	17	MMBZ5231BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5231BW-FDITR-ND◆	60.00/M
5.6	20	11	MMBZ5232BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5232BW-FDITR-ND◆	60.00/M
6.2	20	7.0	MMBZ5234BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5234BW-FDITR-ND◆	60.00/M
6.8	20	5.0	MMBZ5235BWDICT-ND	.41	2.88	19.23	—	—
6.8	20	5.0	MMBZ5235BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5235BW-FDITR-ND◆	60.00/M
7.5	20	6.0	MMBZ5236BWDICT-ND	.41	2.88	19.23	—	—
7.5	20	6.0	MMBZ5236BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5236BW-FDITR-ND◆	60.00/M
8.2	20	8.0	MMBZ5237BWDICT-ND	.41	2.88	19.23	—	—
8.2	20	8.0	MMBZ5237BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5237BW-FDITR-ND◆	60.00/M
9.1	20	10	MMBZ5239BWDICT-ND	.41	2.88	19.23	—	—
9.1	20	10	MMBZ5239BW-FDICT-ND◆	.36	2.56	15.35	—	—
10	20	17	MMBZ5240BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5240BW-FDITR-ND◆	60.00/M
11	20	22	MMBZ5241BWDICT-ND	.41	2.88	19.23	—	—
11	20	22	MMBZ5241BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5241BW-FDITR-ND◆	60.00/M
12	20	30	MMBZ5242BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5242BW-FDITR-ND◆	60.00/M
13	9.5	13	MMBZ5243BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5243BW-FDITR-ND◆	60.00/M
15	8.5	16	MMBZ5245BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5245BW-FDITR-ND◆	60.00/M
16	7.8	17	MMBZ5246BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5246BW-FDITR-ND◆	60.00/M
18	7.0	21	MMBZ5248BWDICT-ND	.41	2.88	19.23	—	—
18	7.0	21	MMBZ5248BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5248BW-FDITR-ND◆	60.00/M
20	6.2	25	MMBZ5250BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5250BW-FDITR-ND◆	60.00/M
22	5.6	29	MMBZ5251BWDICT-ND	.41	2.88	19.23	—	—
22	5.6	29	MMBZ5251BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5251BW-FDITR-ND◆	60.00/M
24	5.2	33	MMBZ5252BWDICT-ND	.41	2.88	19.23	—	—
24	5.2	33	MMBZ5252BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5252BW-FDITR-ND◆	60.00/M
27	5.0	41	MMBZ5254BWDICT-ND	.41	2.88	19.23	—	—
27	5.0	41	MMBZ5254BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5254BW-FDITR-ND◆	60.00/M
28	4.5	44	MMBZ5255BWDICT-ND	.41	2.88	19.23	—	—
28	4.5	44	MMBZ5255BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5255BW-FDITR-ND◆	60.00/M
30	4.2	49	MMBZ5256BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5256BW-FDITR-ND◆	60.00/M
33	3.8	58	MMBZ5257BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5257BW-FDITR-ND◆	60.00/M
36	3.4	70	MMBZ5258BWDICT-ND	.41	2.88	19.23	—	—
36	3.4	70	MMBZ5258BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5258BW-FDITR-ND◆	60.00/M
39	3.2	80	MMBZ5259BWDICT-ND	.41	2.88	19.23	—	—
39	3.2	80	MMBZ5259BW-FDICT-ND◆	.42	3.00	18.00	MMBZ5259BW-FDITR-ND◆	60.00/M

◆ *RoHS Compliant*

SOT-363 Dual Isolated Surface Mount Zener Diodes – 200mW

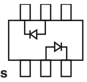
BZX Series

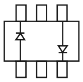
MMBZ Series

Digi-Reel®

Zener Voltage VZ@IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
BZX Series								
2.4	5.0	100	BZX84C2V4S-FDICT-ND◆	.50	3.60	21.60	BZX84C2V4S-FDITR-ND◆	72.00/M
2.7	5.0	100	BZX84C2V7SDICT-ND	.45	3.20	21.36	—	—
2.7	5.0	100	BZX84C2V7S-FDICT-ND◆	.50	3.60	21.60	BZX84C2V7S-FDITR-ND◆	72.00/M
3.0	5.0	95	BZX84C3V0S-FDICT-ND◆	.50	3.60	21.60	BZX84C3V0S-FDITR-ND◆	72.00/M
3.3	5.0	95	BZX84C3V3S-FDICT-ND◆	.50	3.60	21.60	BZX84C3V3S-FDITR-ND◆	72.00/M
3.6	5.0	90	BZX84C3V6SDICT-ND	.45	3.20	21.36	—	—
3.6	5.0	90	BZX84C3V6S-FDICT-ND◆	.50	3.60	21.60	BZX84C3V6S-FDITR-ND◆	72.00/M
3.9	5.0	90	BZX84C3V9SDICT-ND	.45	3.20	21.36	—	—
3.9	5.0	90	BZX84C3V9S-FDICT-ND	.43	3.07	18.42	—	—

◆ *RoHS Compliant*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Zener Diodes

SOT-363 Dual Isolated Surface Mount Zener Diodes – 200mW *(Cont.)*

Zener Voltage VZ@IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
4.3	5.0	90	BZX84C4V3S-FDICT-ND◆	.48	3.41	20.47	—	—
4.7	5.0	80	BZX84C4V7SDICT-ND	.45	3.20	21.36	—	—
4.7	5.0	80	BZX84C4V7S-FDICT-ND◆	.50	3.60	21.60	BZX84C4V7S-FDITR-ND◆	72.00/M
5.1	5.0	60	BZX84C5V1S-FDICT-ND◆	.50	3.60	21.60	BZX84C5V1S-FDITR-ND◆	72.00/M
5.6	5.0	40	BZX84C5V6S-FDICT-ND◆	.56	4.00	24.00	BZX84C5V6S-FDITR-ND◆	80.00/M
6.2	5.0	10	BZX84C6V2S-FDICT-ND◆	.50	3.60	21.60	BZX84C6V2S-FDITR-ND◆	72.00/M
6.8	5.0	15	BZX84C6V8SDICT-ND	.45	3.20	21.36	—	—
6.8	5.0	15	BZX84C6V8S-FDICT-ND◆	.50	3.60	21.60	BZX84C6V8S-FDITR-ND◆	72.00/M
7.5	5.0	15	BZX84C7V5SDICT-ND	.45	3.20	21.36	—	—
7.5	5.0	15	BZX84C7V5S-FDICT-ND◆	.50	3.60	21.60	BZX84C7V5S-FDITR-ND◆	72.00/M
8.2	5.0	15	BZX84C8V2SDICT-ND	.45	3.20	21.36	—	—
8.2	5.0	15	BZX84C8V2S-FDICT-ND◆	.50	3.60	21.60	BZX84C8V2S-FDITR-ND◆	72.00/M
9.1	5.0	15	BZX84C9V1SDICT-ND	.45	3.20	21.36	—	—
9.1	5.0	15	BZX84C9V1S-FDICT-ND◆	.50	3.60	21.60	BZX84C9V1S-FDITR-ND◆	72.00/M
10	5.0	20	BZX84C10S-FDICT-ND◆	.56	4.00	24.00	BZX84C10S-FDITR-ND◆	80.00/M
11	5.0	20	BZX84C11SDICT-ND	.45	3.20	21.36	—	—
11	5.0	20	BZX84C11S-FDICT-ND◆	.50	3.60	21.60	BZX84C11S-FDITR-ND◆	72.00/M
12	5.0	25	BZX84C12SDICT-ND	.45	3.20	21.36	—	—
12	5.0	25	BZX84C12S-FDICT-ND◆	.50	3.60	21.60	BZX84C12S-FDITR-ND◆	72.00/M
13	5.0	30	BZX84C13S-FDICT-ND◆	.50	3.60	21.60	BZX84C13S-FDITR-ND◆	72.00/M
15	5.0	30	BZX84C15SDICT-ND	.45	3.20	21.36	—	—
15	5.0	30	BZX84C15S-FDICT-ND◆	.50	3.60	21.60	BZX84C15S-FDITR-ND◆	72.00/M
16	5.0	40	BZX84C16S-FDICT-ND◆	.50	3.60	21.60	BZX84C16S-FDITR-ND◆	72.00/M
18	5.0	45	BZX84C18SDICT-ND	.45	3.20	21.36	—	—
18	5.0	45	BZX84C18S-FDICT-ND◆	.50	3.60	21.60	BZX84C18S-FDITR-ND◆	72.00/M
20	5.0	55	BZX84C20SDICT-ND	.45	3.20	21.36	—	—
20	5.0	55	BZX84C20S-FDICT-ND◆	.50	3.60	21.60	BZX84C20S-FDITR-ND◆	72.00/M
22	5.0	55	BZX84C22SDICT-ND	.45	3.20	21.36	—	—
22	5.0	55	BZX84C22S-FDICT-ND◆	.50	3.60	21.60	BZX84C22S-FDITR-ND◆	72.00/M
24	5.0	70	BZX84C24SDICT-ND	.45	3.20	21.36	—	—
24	5.0	70	BZX84C24S-FDICT-ND◆	.50	3.60	21.60	BZX84C24S-FDITR-ND◆	72.00/M
27	2.0	80	BZX84C27SDICT-ND	.45	3.20	21.36	—	—
27	2.0	80	BZX84C27S-FDICT-ND◆	.50	3.60	21.60	BZX84C27S-FDITR-ND◆	72.00/M
30	2.0	80	BZX84C30S-FDICT-ND◆	.50	3.60	21.60	BZX84C30S-FDITR-ND◆	72.00/M
33	2.0	80	BZX84C33SDICT-ND	.45	3.20	21.36	—	—
33	2.0	80	BZX84C33S-FDICT-ND◆	.50	3.60	21.60	BZX84C33S-FDITR-ND◆	72.00/M
36	2.0	90	BZX84C36SDICT-ND	.45	3.20	21.36	—	—
36	2.0	90	BZX84C36S-FDICT-ND◆	.50	3.60	21.60	BZX84C36S-FDITR-ND◆	72.00/M
39	2.0	130	BZX84C39SDICT-ND	.45	3.20	21.36	—	—
39	2.0	130	BZX84C39S-FDICT-ND◆	.50	3.60	21.60	BZX84C39S-FDITR-ND◆	72.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5221BS-FDITR-ND◆	72.00/M
2.7	20	30	MMBZ5223BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5223BS-FDITR-ND◆	72.00/M
3.0	20	30	MMBZ5225BSDICT-ND	.45	3.20	21.36	—	—
3.0	20	30	MMBZ5225BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5225BS-FDITR-ND◆	72.00/M
3.3	20	28	MMBZ5226BSDICT-ND	.45	3.20	21.36	—	—
3.3	20	28	MMBZ5226BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5226BS-FDITR-ND◆	72.00/M
3.6	20	24	MMBZ5227BSDICT-ND	.45	3.20	21.36	—	—
3.6	20	24	MMBZ5227BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5227BS-FDITR-ND◆	72.00/M
3.9	20	23	MMBZ5228BSDICT-ND	.45	3.20	21.36	—	—
3.9	20	23	MMBZ5228BS-FDICT-ND◆	.56	4.00	24.00	MMBZ5228BS-FDITR-ND◆	80.00/M
4.3	20	22	MMBZ5229BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5229BS-FDITR-ND◆	72.00/M
4.7	20	19	MMBZ5230BSDICT-ND	.45	3.20	21.36	—	—
4.7	20	19	MMBZ5230BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5230BS-FDITR-ND◆	72.00/M
5.1	20	17	MMBZ5231BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5231BS-FDITR-ND◆	72.00/M
5.6	20	11	MMBZ5232BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5232BS-FDITR-ND◆	72.00/M
6.0	20	7	MMBZ5233BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5233BS-FDITR-ND◆	72.00/M
6.2	20	7	MMBZ5234BSDICT-ND	.45	3.20	21.36	—	—
6.2	20	7	MMBZ5234BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5234BS-FDITR-ND◆	72.00/M
6.8	20	5	MMBZ5235BSDICT-ND	.45	3.20	21.36	—	—
6.8	20	5	MMBZ5235BS-FDICT-ND◆	.56	4.00	24.00	MMBZ5235BS-FDITR-ND◆	80.00/M
7.5	20	6	MMBZ5236BSDICT-ND	.45	3.20	21.36	—	—
7.5	20	6	MMBZ5236BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5236BS-FDITR-ND◆	72.00/M
8.2	20	8	MMBZ5237BSDICT-ND	.45	3.20	21.36	—	—
8.2	20	8	MMBZ5237BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5237BS-FDITR-ND◆	72.00/M
8.7	20	8	MMBZ5238BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5238BS-FDITR-ND◆	72.00/M
9.1	20	10	MMBZ5239BSDICT-ND	.45	3.20	21.36	—	—
9.1	20	10	MMBZ5239BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5239BS-FDITR-ND◆	72.00/M
10	20	17	MMBZ5240BSDICT-ND	.45	3.20	21.36	—	—
10	20	17	MMBZ5240BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5240BS-FDITR-ND◆	72.00/M
11	20	22	MMBZ5241BS-FDICT-ND◆	.53	3.75	25.00	MMBZ5241BS-FDITR-ND◆	90.00/M
12	20	30	MMBZ5242BSDICT-ND	.45	3.20	21.36	—	—
12	20	30	MMBZ5242BS-FDICT-ND◆	.56	4.00	24.00	MMBZ5242BS-FDITR-ND◆	80.00/M
13	9.5	13	MMBZ5243BSDICT-ND	.45	3.20	21.36	—	—
13	9.5	13	MMBZ5243BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5243BS-FDITR-ND◆	72.00/M
15	8.5	16	MMBZ5245BSDICT-ND	.45	3.20	21.36	—	—
15	8.5	16	MMBZ5245BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5245BS-FDITR-ND◆	72.00/M
16	7.8	17	MMBZ5246BSDICT-ND	.45	3.20	21.36	—	—
16	7.8	17	MMBZ5246BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5246BS-FDITR-ND◆	72.00/M
18	7.0	21	MMBZ5248BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5248BS-FDITR-ND◆	72.00/M
20	6.2	25	MMBZ5250BSDICT-ND	.45	3.20	21.36	—	—
20	6.2	25	MMBZ5250BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5250BS-FDITR-ND◆	72.00/M
22	5.6	29	MMBZ5251BSDICT-ND	.45	3.20	21.36	—	—
22	5.6	29	MMBZ5251BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5251BS-FDITR-ND◆	72.00/M
24	5.2	33	MMBZ5252BSDICT-ND	.45	3.20	21.36	—	—
24	5.2	33	MMBZ5252BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5252BS-FDITR-ND◆	72.00/M
27	5.0	41	MMBZ5254BSDICT-ND	.45	3.20	21.36	—	—
27	5.0	41	MMBZ5254BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5254BS-FDITR-ND◆	72.00/M
28	4.5	44	MMBZ5255BSDICT-ND	.45	3.20	21.36	—	—
28	4.5	44	MMBZ5255BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5255BS-FDITR-ND◆	72.00/M
30	4.2	49	MMBZ5256BSDICT-ND	.45	3.20	21.36	—	—
30	4.2	49	MMBZ5256BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5256BS-FDITR-ND◆	72.00/M
33	3.8	58	MMBZ5257BSDICT-ND	.45	3.20	21.36	—	—
33	3.8	58	MMBZ5257BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5257BS-FDITR-ND◆	72.00/M
36	3.4	70	MMBZ5258BSDICT-ND	.45	3.20	21.36	—	—
36	3.4	70	MMBZ5258BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5258BS-FDITR-ND◆	72.00/M
39	3.2	80	MMBZ5259BSDICT-ND	.45	3.20	21.36	—	—
39	3.2	80	MMBZ5259BS-FDICT-ND◆	.50	3.60	21.60	MMBZ5259BS-FDITR-ND◆	72.00/M

◆ ***RoHS Compliant***

SOT-363 Triple Isolated Surface Mount Zener Diodes – 200mW

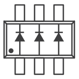

Zener Voltage VZ @ IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
5.1	5	60	BZX84C5V1TS-FDICT-ND	.54	4.28	29.25	BZX84C5V1TS-FDITR-ND	124.00/M
5.6	5	40	BZX84C5V6TS-FDICT-ND	.54	4.28	29.25	BZX84C5V6TS-FDITR-ND	124.00/M
6.2	5	10	BZX84C6V2TS-FDICT-ND	.54	4.28	29.25	BZX84C6V2TS-FDITR-ND	124.00/M
12	5	25	BZX84C12TS-FDICT-ND	.54	4.28	29.25	BZX84C12TS-FDITR-ND	124.00/M
27	2	80	BZX84C27TS-FDICT-ND	.54	4.28	29.25	BZX84C27TS-FDITR-ND	124.00/M

SOT-363 Quad Isolated Surface Mount Zener Diodes – 200mW

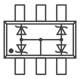

Zener Voltage VZ @ IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
20	5	55	QZX363C20-FDICT-ND	.50	3.96	29.70	QZX363C20-FDITR-ND	140.00/M

SOT-523 Surface Mount Zener Diodes – 150mW

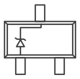

Zener Voltage VZ @ IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
10	5	20	BZX84C10T-FDICT-ND	.42	3.00	18.00	BZX84C10T-FDITR-ND	60.00/M
3.3	20	28	MMBZ5226BTDICT-ND✔	.49	3.50	21.00	MMBZ5226BTDITR-ND✔	70.00/M

✔ ***NEW!***

SOT-523 Dual Surface Mount Zener Diodes – 220mW

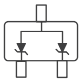

Zener Voltage VZ @ IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
6.8	5	15	DZL6V8AXV3DICT-ND	.58	4.62	34.65	DZL6V8AXV3DITR-ND	163.00/M

SMA Surface Mount Zener Diodes 1.0W, 5% Tolerance

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT@IZT(Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000
				1	10	100		
5.1	100	5.0	SMAZ5V1-FDICT-ND	.44	3.42	23.40	SMAZ5V1-FDITR-ND	93.00/M
5.6	100	2.0	SMAZ5V6-FDICT-ND	.44	3.42	23.40	SMAZ5V6-FDITR-ND	93.00/M
6.2	100	2.0	SMAZ6V2-FDICT-ND	.44	3.42	23.40	SMAZ6V2-FDITR-ND	93.00/M
6.8	100	2.0	SMAZ6V8-FDICT-ND	.44	3.42	23.40	SMAZ6V8-FDITR-ND	93.00/M
7.5	100	2.0	SMAZ7V5-FDICT-ND	.44	3.42	23.40	SMAZ7V5-FDITR-ND	93.00/M
8.2	100	2.0	SMAZ8V2-FDICT-ND	.44	3.42	23.40	SMAZ8V2-FDITR-ND	93.00/M
9.1	50	4.0	SMAZ9V1-FDICT-ND	.44	3.42	23.40	SMAZ9V1-FDITR-ND	93.00/M
10	50	4.0	SMAZ10-FDICT-ND	.44	3.42	23.40	SMAZ10-FDITR-ND	93.00/M
12	50	7.0	SMAZ12-FDICT-ND	.44	3.42	23.40	SMAZ12-FDITR-ND	93.00/M
15	50	10	SMAZ15-FDICT-ND	.44	3.42	23.40	SMAZ15-FDITR-ND	93.00/M
16	25	15	SMAZ16-FDICT-ND	.44	3.42	23.40	SMAZ16-FDITR-ND	93.00/M
18	25	15	SMAZ18-FDICT-ND	.44	3.42	23.40	SMAZ18-FDITR-ND	93.00/M
20	25	15	SMAZ20-FDICT-ND	.44	3.42	23.40	SMAZ20-FDITR-ND	93.00/M
22	25	15	SMAZ22-FDICT-ND	.44	3.42	23.40	SMAZ22-FDITR-ND	93.00/M
24	25	15	SMAZ24-FDICT-ND	.44	3.42	23.40	SMAZ24-FDITR-ND	93.00/M
27	25	15	SMAZ27-FDICT-ND	.44	3.42	23.40	SMAZ27-FDITR-ND	93.00/M
30	25	15	SMAZ30-FDICT-ND	.58	4.56	31.20	SMAZ30-FDITR-ND	124.00/M
33	25	15	SMAZ33-FDICT-ND	.58	4.56	31.20	SMAZ33-FDITR-ND	124.00/M
36	10	40	SMAZ36-FDICT-ND	.44	3.42	23.40	SMAZ36-FDITR-ND	93.00/M
39	10	40	SMAZ39-FDICT-ND	.44	3.42	23.40	SMAZ39-FDITR-ND	93.00/M

Glass Passivated Bridge Rectifiers

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Voltage Drop (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
RH Series — RoHS Compliant											
1	0.5	400	30	1.15	-55 ~ 150	RH04DICT-ND	1.06	.92	.72	RH04DITR-ND	348.00/M
	0.5	600	30	1.15	-55 ~ 150	RH06DICT-ND	.75	.65	.51	RH06DITR-ND	246.50/M
HD Series — RoHS Compliant											
1	0.8	100	30	1.0	-55 ~ 150	HD01DICT-ND	.51	.40	.28	HD01DITR-ND	115.50/M
	0.8	200	30	1.0	-55 ~ 150	HD02DICT-ND	.51	.40	.28	HD02DITR-ND	115.50/M
	0.8	400	30	1.0	-55 ~ 150	HD04DICT-ND	.51	.40	.28	HD04DITR-ND	115.50/M
	0.8	600	30	1.0	-55 ~ 150	HD06DICT-ND	.58	.46	.32	HD06DITR-ND	132.00/M

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape and Reel§ Pricing 1,500
DF-S Series — RoHS Compliant											
2	1.0	100	50	1.1	-65 ~ 150	DF01S-TDICT-ND ***NEW!***	.58	.46	.32	.22	144.00/M
	1.0	400	50	1.1	-65 ~ 150	DF04S-TDICT-ND ***NEW!***	.62	.49	.34	.23	153.00/M
	1.0	600	50	1.1	-65 ~ 150	DF06S-TDICT-ND ***NEW!***	.52	.42	.32	.24	162.00/M
	1.0	1000	50	1.1	-65 ~ 150	DF10S-TDICT-ND ***NEW!***	.61	.49	.37	.27	187.00/M
	1.5	50	50	1.1	-65 ~ 150	DF15005SDICT-ND	.55	.44	.33	.25	170.00/M
	1.5	100	50	1.1	-65 ~ 150	DF1501SDICT-ND	.58	.47	.35	.26	178.50/M
	1.5	200	50	1.1	-65 ~ 150	DF1502SDICT-ND	.61	.49	.37	.27	187.00/M
	1.5	400	50	1.1	-65 ~ 150	DF1504SDICT-ND	.66	.53	.40	.30	204.00/M
	1.5	600	50	1.1	-65 ~ 150	DF1506SDICT-ND	.69	.55	.42	.31	212.50/M
	1.5	800	50	1.1	-65 ~ 150	DF1508SDICT-ND	.74	.60	.45	.34	229.50/M
	1.5	1000	50	1.1	-65 ~ 150	DF1510SDICT-ND	.74	.60	.45	.34	229.50/M

§ For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
DF-S Series — RoHS Compliant										
2	1.0	50	50	1.1	-65 ~ 150	DF005SDI-ND	.80	.70	.54	.40
	1.0	100	50	1.1	-65 ~ 150	DF01SDI-ND	.84	.74	.57	.42
	1.0	200	50	1.1	-65 ~ 150	DF02SDI-ND	.88	.77	.60	.44
	1.0	400	50	1.1	-65 ~ 150	DF04SDI-ND	.94	.83	.64	.47
	1.0	600	50	1.1	-65 ~ 150	DF06SDI-ND	1.05	.93	.74	.57
	1.0	800	50	1.1	-65 ~ 150	DF08SDI-ND	1.09	.97	.76	.59
	1.0	1,000	50	1.1	-65 ~ 150	DF10SDI-ND	1.16	1.03	.81	.63
DF-M Series — RoHS Compliant										
3	1.0	50	45	1.1	-65 ~ 150	DF005MDI-ND	.52	.41	.28	.20
	1.0	100	45	1.1	-65 ~ 150	DF01MDI-ND	.49	.39	.27	.18
	1.0	200	45	1.1	-65 ~ 150	DF02MDI-ND	.49	.39	.27	.18
	1.0	400	45	1.1	-65 ~ 150	DF04MDI-ND	.49	.39	.27	.18
	1.0	600	45	1.1	-65 ~ 150	DF06MDI-ND	.72	.63	.49	.36
	1.0	800	45	1.1	-65 ~ 150	DF08MDI-ND	.48	.40	.30	.22
	1.0	1,000	45	1.1	-65 ~ 150	DF10MDI-ND	.50	.42	.32	.24
WxxG Series — RoHS Compliant										
4	1.5	50	50	1.0	-65 ~ 150	W005GDI-ND	.48	.40	.30	.22
	1.5	100	50	1.0	-65 ~ 150	W01GDI-ND	.45	.38	.29	.21
	1.5	200	50	1.0	-65 ~ 150	W02GDI-ND	.48	.40	.30	.22
	1.5	400	50	1.0	-65 ~ 150	W04GDI-ND	.48	.40	.30	.22
	1.5	600	50	1.0	-65 ~ 150	W06GDI-ND	.52	.44	.33	.25
	1.5	800	50	1.0	-65 ~ 150	W08GDI-ND	.67	.56	.42	.31
	1.5	1,000	50	1.0	-65 ~ 150	W10GDI-ND	.59	.50	.38	.28
NEW! 2W Series — RoHS Compliant NEW!										
4	2.0	400	60	1.1	-65 ~ 150	2W04GDI-ND	.69	.58	.44	.32
	2.0	1,000	60	1.1	-65 ~ 150	2W10GDI-ND	.80	.70	.54	.40
KBP Series — RoHS Compliant										
5	1.5	50	40	1.1	-65 ~ 150	KBP005G-ND	.52	.44	.33	.25
	1.5	100	40	1.1	-65 ~ 150	KBP01G-ND	.52	.44	.33	.25
	1.5	200	40	1.1	-65 ~ 150	KBP02G-ND	.52	.44	.33	.25
	1.5	400	40	1.1	-65 ~ 150	KBP04G-ND	.52	.44	.33	.25
	1.5	600	40	1.1	-65 ~ 150	KBP06G-ND	.57	.48	.36	.27
	1.5	800	40	1.1	-65 ~ 150	KBP08G-ND	.67	.56	.42	.31
	1.5	1,000	40	1.1	-65 ~ 150	KBP10G-ND	.64	.56	.44	.32
	2.0	50	65	1.1	-65 ~ 150	KBP2005GDI-ND	.52	.44	.33	.25
	2.0	100	65	1.1	-65 ~ 150	KBP201GDI-ND	.52	.44	.33	.25
	2.0	200	65	1.1	-65 ~ 150	KBP202GDI-ND	.52	.44	.33	.25
	2.0	400	65	1.1	-65 ~ 150	KBP204GDI-ND	.52	.44	.33	.25
	2.0	600	65	1.1	-65 ~ 150	KBP206GDI-ND	.57	.48	.36	.27
	2.0	1,000	65	1.1	-65 ~ 150	KBP210GDI-ND	.64	.56	.44	.32
GBU Series — RoHS Compliant										
6	4.0	100	150	1.0	-55 ~ 150	GBU401DI-ND	1.37	1.21	.96	.75
	4.0	400	150	1.0	-55 ~ 150	GBU404DI-ND	1.37	1.21	.96	.75
	4.0	600	150	1.0	-55 ~ 150	GBU406DI-ND ***NEW!***	1.37	1.21	.96	.75
	4.0	1,000	150	1.0	-55 ~ 150	GBU410DI-ND	1.65	1.46	1.16	.90
	6.0	100	175	1.0	-55 ~ 150	GBU601DI-ND	1.47	1.31	1.03	.80
	6.0	400	175	1.0	-55 ~ 150	GBU604DI-ND	1.47	1.31	1.03	.80
	6.0	600	175	1.0	-55 ~ 150	GBU606DI-ND ***NEW!***	1.47	1.31	1.03	.80
	6.0	1,000	175	1.0	-55 ~ 150	GBU610DI-ND	1.47	1.31	1.03	.80
	8.0	50	200	1.0	-55 ~ 150	GBU8005DI-ND	1.58	1.43	1.15	.90
	8.0	100	200	1.0	-55 ~ 150	GBU801DI-ND	1.40	1.24	.98	.76
	8.0	200	200	1.0	-55 ~ 150	GBU802DI-ND	1.64	1.49	1.20	.93
	8.0	400	200	1.0	-55 ~ 150	GBU804DI-ND	1.67	1.52	1.22	.95
	8.0	600	200	1.0	-55 ~ 150	GBU806DI-ND	1.40	1.24	.98	.76
	8.0	1,000	200	1.0	-55 ~ 150	GBU810DI-ND	1.74	1.57	1.26	.98
	10.0	100	220	1.0	-55 ~ 150	GBU1001DI-ND ***NEW!***	1.72	1.52	1.21	.94
	10.0	400	220	1.0	-55 ~ 150	GBU1004DI-ND ***NEW!***	1.72	1.52	1.21	.94
	10.0	600	220	1.0	-55 ~ 150	GBU1006DI-ND ***NEW!***	1.72	1.52	1.21	.94

◆ *RoHS Compliant*

(Continued)

Fig. 1 — RH and HD Series

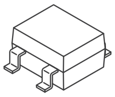

Fig. 2 — DF-S Series

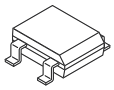

Fig. 3 — DF-M Series

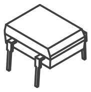

Fig. 4 — WxxG, 2W Series

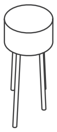

Fig. 5 — KBP Series

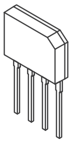

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Glass Passivated Bridge Rectifiers *(Cont.)*

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
				GBJ Series						
7	6.0	50	170	1.0	-65 ~ 150	GBJ6005-FDI-ND◆	1.40	1.24	.98	.76
	6.0	100	170	1.0	-65 ~ 150	GBJ601-FDI-ND◆	1.40	1.24	.98	.76
	6.0	200	170	1.0	-65 ~ 150	GBJ602-FDI-ND◆	1.40	1.24	.98	.76
	6.0	400	170	1.0	-65 ~ 150	GBJ604-FDI-ND◆	1.40	1.24	.98	.76
	6.0	600	170	1.0	-65 ~ 150	GBJ606-FDI-ND◆	2.17	1.96	1.58	1.23
	6.0	1,000	170	1.0	-65 ~ 150	GBJ610-FDI-ND◆	1.68	1.49	1.18	.92
	8.0	50	170	1.0	-65 ~ 150	GBJ8005DI-ND	1.82	1.65	1.32	1.03
	8.0	50	170	1.0	-65 ~ 150	GBJ8005-FDI-ND◆	1.58	1.40	1.11	.86
	8.0	100	170	1.0	-65 ~ 150	GBJ801DI-ND◆	1.87	1.69	1.36	1.06
	8.0	100	170	1.0	-65 ~ 150	GBJ801-FDI-ND◆	1.58	1.40	1.11	.86
	8.0	200	170	1.0	-65 ~ 150	GBJ802-FDI-ND◆	1.58	1.40	1.11	.86
	8.0	400	170	1.0	-65 ~ 150	GBJ804-FDI-ND◆	1.58	1.40	1.11	.86
	8.0	600	170	1.0	-65 ~ 150	GBJ806-FDI-ND◆	1.55	1.40	1.13	.88
	8.0	1,000	170	1.0	-65 ~ 150	GBJ810-FDI-ND◆	2.02	1.82	1.47	1.14
	10.0	100	170	1.05	-65 ~ 150	GBJ1001-FDI-ND◆	1.74	1.57	1.26	.98
	10.0	200	170	1.05	-65 ~ 150	GBJ1002-FDI-ND◆	1.74	1.57	1.26	.98
	10.0	400	170	1.05	-65 ~ 150	GBJ1004-FDI-ND◆	1.74	1.57	1.26	.98
	10.0	600	170	1.05	-65 ~ 150	GBJ1006-FDI-ND◆	1.74	1.57	1.26	.98
	10.0	1,000	170	1.05	-65 ~ 150	GBJ1010-FDI-ND◆	2.05	1.85	1.49	1.16
	15.0	100	240	1.05	-65 ~ 150	GBJ1501-FDI-ND◆	1.74	1.57	1.26	.98
	15.0	200	240	1.05	-65 ~ 150	GBJ1502-FDI-ND◆	1.74	1.57	1.26	.98
	15.0	400	240	1.05	-65 ~ 150	GBJ1504DI-ND	2.19	1.98	1.60	—
	15.0	400	240	1.05	-65 ~ 150	GBJ1504-FDI-ND◆	1.74	1.57	1.26	.98
	15.0	600	240	1.05	-65 ~ 150	GBJ1506-FDI-ND◆	1.74	1.57	1.26	.98
	15.0	1,000	240	1.05	-65 ~ 150	GBJ1510-FDI-ND◆	2.02	1.82	1.47	1.14
	20.0	50	240	1.05	-65 ~ 150	GBJ20005-FDI-ND◆	1.71	1.54	1.24	.97
	20.0	100	240	1.05	-65 ~ 150	GBJ2001-FDI-ND◆	1.71	1.54	1.24	.97
	20.0	200	240	1.05	-65 ~ 150	GBJ2002-FDI-ND◆	1.71	1.54	1.24	.97
	20.0	400	240	1.05	-65 ~ 150	GBJ2004-FDI-ND◆	1.71	1.54	1.24	.97
	20.0	600	240	1.05	-65 ~ 150	GBJ2006-FDI-ND◆	2.02	1.82	1.47	1.14
	20.0	1,000	240	1.05	-65 ~ 150	GBJ2010-FDI-ND◆	2.17	1.96	1.58	1.23
	25.0	50	350	1.05	-65 ~ 150	GBJ25005-FDI-ND◆	1.86	1.68	1.35	1.05
	25.0	100	350	1.05	-65 ~ 150	GBJ2501-FDI-ND◆	2.73	2.47	1.98	1.54
	25.0	200	350	1.05	-65 ~ 150	GBJ2502-FDI-ND◆	1.86	1.68	1.35	1.05
	25.0	400	350	1.05	-65 ~ 150	GBJ2504-FDI-ND◆	2.02	1.82	1.47	1.14
	25.0	600	350	1.05	-65 ~ 150	GBJ2506-FDI-ND◆	2.48	2.24	1.80	1.40
	25.0	1,000	350	1.05	-65 ~ 150	GBJ2510-FDI-ND◆	2.33	2.10	1.69	1.32
				GBPC Series — RoHS Compliant						
8	15.0	50	300	1.1	-65 ~ 150	GBPC15005DI-ND	2.60	2.36	1.89	1.47
	15.0	100	300	1.1	-65 ~ 150	GBPC1501DI-ND	2.60	2.36	1.89	1.47
	15.0	200	300	1.1	-65 ~ 150	GBPC1502DI-ND	2.60	2.36	1.89	1.47
	15.0	400	300	1.1	-65 ~ 150	GBPC1504DI-ND	2.60	2.36	1.89	1.47
	15.0	600	300	1.1	-65 ~ 150	GBPC1506DI-ND	2.79	2.52	2.03	1.58
	15.0	800	300	1.1	-65 ~ 150	GBPC1508DI-ND	2.79	2.52	2.03	1.58
	15.0	1,000	300	1.1	-65 ~ 150	GBPC1510DI-ND	2.79	2.52	2.03	1.58
	25.0	100	300	1.1	-65 ~ 150	GBPC2501DI-ND	2.79	2.52	2.03	1.58
	25.0	200	300	1.1	-65 ~ 150	GBPC2502DI-ND	2.79	2.52	2.03	1.58
	25.0	400	300	1.1	-65 ~ 150	GBPC2504DI-ND	2.79	2.52	2.03	1.58
	25.0	600	300	1.1	-65 ~ 150	GBPC2506DI-ND	2.95	2.66	2.14	1.67
	25.0	800	300	1.1	-65 ~ 150	GBPC2508DI-ND	2.95	2.66	2.14	1.67
	25.0	1,000	300	1.1	-65 ~ 150	GBPC2510DI-ND	2.95	2.66	2.14	1.67
	35.0	50	400	1.1	-65 ~ 150	GBPC35005DI-ND ***NEW!***	2.66	2.38	1.95	1.58
	35.0	100	400	1.1	-65 ~ 150	GBPC3501DI-ND	2.95	2.66	2.14	1.67
	35.0	200	400	1.1	-65 ~ 150	GBPC3502DI-ND	2.95	2.66	2.14	1.67
	35.0	400	400	1.1	-65 ~ 150	GBPC3504DI-ND	2.95	2.66	2.14	1.67
	35.0	400	400	1.1	-65 ~ 150	GBPC3504WDI-ND ***NEW!***	3.50	3.13	2.57	2.08
	35.0	600	400	1.1	-65 ~ 150	GBPC3506DI-ND	2.80	2.50	2.05	1.66
	35.0	800	400	1.1	-65 ~ 150	GBPC3508DI-ND	2.80	2.50	2.05	1.66
	35.0	1,000	400	1.1	-65 ~ 150	GBPC3510DI-ND	2.80	2.50	2.05	1.66

◆ ***RoHS Compliant***

Fig. 6 — GBU Series

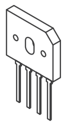

Fig. 7 — GBJ Series

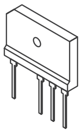

Fig. 8 — GBPC Series

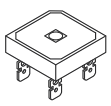

Bridge Rectifiers

RoHS COMPLIANT

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Digi-Key Part No.	Price Each 1	10	100	500
1	4.0	50	200	10.0	1.0	RS401LDI-ND	1.47	1.31	1.03	.80
	4.0	100	200	10.0	1.0	RS402LDI-ND	1.40	1.24	.98	.76
	4.0	200	200	10.0	1.0	RS403LDI-ND	1.40	1.24	.98	.76
2	6.0	50	200	10.0	1.0	PB605DI-ND	1.65	1.46	1.16	.90
	6.0	100	200	10.0	1.0	PB61DI-ND	1.72	1.52	1.21	.94
	6.0	200	200	10.0	1.0	PB62DI-ND	1.58	1.40	1.11	.86
	6.0	600	200	10.0	1.0	PB66DI-ND	1.71	1.54	1.24	.97
	6.0	50	125	10.0	1.1	PBPC601DI-ND ***NEW!***	1.58	1.40	1.11	.86
	6.0	100	125	10.0	1.1	PBPC602DI-ND ***NEW!***	1.58	1.40	1.11	.86
	6.0	200	125	10.0	1.1	PBPC603DI-ND ***NEW!***	1.58	1.40	1.11	.86
	6.0	600	125	10.0	1.1	PBPC605DI-ND ***NEW!***	1.58	1.40	1.11	.86
3	15.0	50	300	10.0	1.1	MB1505-ND	3.42	3.05	2.51	2.03
	15.0	200	300	10.0	1.1	MB152-ND	3.53	3.15	2.59	2.10
	15.0	600	300	10.0	1.1	MB156WDI-ND	3.98	3.55	2.92	2.36
	25.0	200	300	10.0	1.1	MB252DI-ND	3.89	3.48	2.85	2.31
	25.0	400	300	10.0	1.1	MB254-ND	3.95	3.53	2.90	2.35
	25.0	600	300	10.0	1.1	MB256DI-ND	3.50	3.13	2.57	2.08
	25.0	50	400	10.0	1.2	MB3505-FDI-ND	2.66	2.38	1.95	1.58
	35.0	200	400	10.0	1.2	MB352-ND	4.26	3.80	3.12	2.53
	35.0	400	400	10.0	1.2	MB354-ND	3.50	3.13	2.57	2.08

Fig. 1

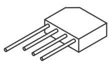

Fig. 2

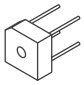

Fig. 3

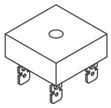

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES INCORPORATED High-Efficiency Rectifiers

- Operating and Storage Temperature: -65°C ~ 175°C
- Reverse recovery test @ 1.0A, V_R = 30V

RoHS COMPLIANT

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (μA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	10	100
1	1.0	50	50	5.0	1.0	50	HER101DICT-ND	.43	3.08	20.51
	1.0	200	50	5.0	1.0	50	HER103DICT-ND	.52	3.65	24.35
2	3.0	200	200	10.0	1.0	50	HER303DICT-ND	.66	5.28	39.62

Fig. 1 — DO-41

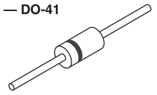

Fig. 2 — DO-201AD

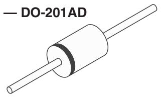

General Purpose and Schottky Diodes

Silicon and Glass Passivated Rectifiers

Digi-Reel®

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (VRRM)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing
DO-41 — RoHS Compliant												
1	1.0	50	30	1.0	1N4001DICT-ND	.32	2.12	9.20	29.90	1N4001DITR-ND	5,000	21.62/M
	1.0	100	30	1.0	1N4002DICT-ND	.32	2.12	9.20	29.90	1N4002DITR-ND	5,000	21.62/M
	1.0	200	30	1.0	1N4003DICT-ND	.32	2.12	9.20	29.90	1N4003DITR-ND	5,000	21.62/M
	1.0	400	30	1.0	1N4004DICT-ND	.30	1.96	8.50	27.63	1N4004DITR-ND	5,000	19.98/M
	1.0	600	30	1.0	1N4005DICT-ND	.32	2.12	9.20	29.90	1N4005DITR-ND	5,000	21.62/M
	1.0	800	30	1.0	1N4006DICT-ND	.32	2.12	9.20	29.90	1N4006DITR-ND	5,000	21.62/M
	1.0	1,000	30	1.0	1N4007DICT-ND	.30	1.96	8.50	27.63	1N4007DITR-ND	5,000	19.98/M
	1.0	50	30	1.0	1N4001GDICT-ND	.55	3.74	17.60	66.00	1N4001GDITR-ND	5,000	44.00/M
	1.0	100	30	1.0	1N4002GDICT-ND	.60	4.08	19.20	72.00	1N4002GDITR-ND	5,000	48.00/M
	1.0	200	30	1.0	1N4003GDICT-ND	.65	4.42	20.80	78.00	1N4003GDITR-ND	5,000	52.00/M
	1.0	400	30	1.0	1N4004GDICT-ND	.68	4.59	21.60	81.00	1N4004GDITR-ND	5,000	54.00/M
	1.0	600	30	1.0	1N4005GDICT-ND	.73	4.93	23.20	87.00	1N4005GDITR-ND	5,000	58.00/M
	1.0	800	30	1.0	1N4006GDICT-ND	.43	3.10	18.60	80.60	1N4006GDITR-ND	5,000	55.80/M
	1.0	1,000	30	1.0	1N4007GDICT-ND	.46	3.30	19.80	85.80	1N4007GDITR-ND	5,000	59.40/M
SMA												
2	1.0	50	30	1.1	S1A-FDICT-ND◆	.50	3.40	16.00	60.00	S1A-FDITR-ND◆	5,000	40.00/M
	1.0	100	30	1.1	S1B-FDICT-ND◆	.50	3.40	16.00	60.00	S1B-FDITR-ND◆	5,000	40.00/M
	1.0	200	30	1.1	S1D-FDICT-ND◆	.50	3.40	16.00	60.00	S1D-FDITR-ND◆	5,000	40.00/M
	1.0	400	30	1.1	S1G-FDICT-ND◆	.55	3.74	17.60	66.00	S1G-FDITR-ND◆	5,000	44.00/M
	1.0	600	30	1.1	S1J-FDICT-ND◆	.50	3.40	16.00	60.00	S1J-FDITR-ND◆	5,000	40.00/M
	1.0	800	30	1.1	S1K-FDICT-ND◆	.70	4.76	22.40	84.00	S1K-FDITR-ND◆	5,000	56.00/M
	1.0	1,000	30	1.1	S1M-FDICT-ND◆	.55	3.74	17.60	66.00	S1M-FDITR-ND◆	5,000	44.00/M
	1.5	50	50	1.15	S2AA-FDICT-ND◆	.44	3.42	23.40	120.00	S2AA-FDITR-ND◆	5,000	93.00/M
	1.5	100	50	1.15	S2BADICT-ND	.37	2.93	20.03	102.72	—	—	—
	1.5	100	50	1.15	S2BA-FDICT-ND◆	.53	3.75	25.00	112.50	S2BA-FDITR-ND◆	5,000	85.00/M
	1.5	200	50	1.15	S2DA-FDICT-ND◆	.53	3.75	25.00	112.50	S2DA-FDITR-ND◆	5,000	85.00/M
	1.5	400	50	1.15	S2GA-FDICT-ND◆	.53	3.75	25.00	112.50	S2GA-FDITR-ND◆	5,000	85.00/M
	1.5	600	50	1.15	S2JA-FDICT-ND◆	.56	4.00	24.00	104.00	S2JA-FDITR-ND◆	5,000	72.00/M
	1.5	800	50	1.15	S2KA-FDICT-ND◆	.56	4.00	24.00	104.00	S2KA-FDITR-ND◆	5,000	72.00/M
	1.5	1,000	50	1.15	S2MA-FDICT-ND◆	.56	4.00	24.00	104.00	S2MA-FDITR-ND◆	5,000	72.00/M
SMB												
2	1.0	50	30	1.1	S1AB-FDICT-ND◆	.42	3.00	18.00	78.00	S1AB-FDITR-ND◆	3,000	60.00/M
	1.0	100	30	1.1	S1BB-FDICT-ND◆	.42	3.00	18.00	78.00	S1BB-FDITR-ND◆	3,000	60.00/M
	1.0	200	30	1.1	S1DB-FDICT-ND◆	.42	3.00	18.00	78.00	S1DB-FDITR-ND◆	3,000	60.00/M
	1.0	400	30	1.1	S1GB-FDICT-ND◆	.53	3.75	25.00	112.50	S1GB-FDITR-ND◆	3,000	90.00/M
	1.0	600	30	1.1	S1JB-FDICT-ND◆	.42	3.00	18.00	78.00	S1JB-FDITR-ND◆	3,000	60.00/M
	1.0	800	30	1.1	S1KB-FDICT-ND◆	.56	4.00	24.00	104.00	S1KB-FDITR-ND◆	3,000	80.00/M
	1.0	1,000	30	1.1	S1MB-FDICT-ND◆	.56	4.00	24.00	104.00	S1MB-FDITR-ND◆	3,000	80.00/M
	1.5	50	30	1.15	S2A-FDICT-ND◆	.48	3.40	20.40	88.40	S2A-FDITR-ND◆	3,000	68.00/M
	1.5	100	30	1.15	S2B-FDICT-ND◆	.56	4.00	24.00	104.00	S2B-FDITR-ND◆	3,000	80.00/M
	1.5	200	30	1.15	S2D-FDICT-ND◆	.56	4.00	24.00	104.00	S2D-FDITR-ND◆	3,000	80.00/M
	1.5	400	30	1.15	S2GDICT-ND	.45	3.20	21.36	96.13	—	—	—
	1.5	400	30	1.15	S2G-FDICT-ND◆	.42	3.00	18.00	78.00	S2G-FDITR-ND◆	3,000	60.00/M
	1.5	600	30	1.15	S2J-FDICT-ND◆	.56	4.00	24.00	104.00	S2J-FDITR-ND◆	3,000	80.00/M
	1.5	800	50	1.15	S2KDICT-ND	.37	2.93	20.03	102.72	—	—	—
	1.5	800	50	1.15	S2K-FDICT-ND◆	.42	3.00	18.00	78.00	S2K-FDITR-ND◆	3,000	60.00/M
	1.5	1,000	30	1.15	S2M-FDICT-ND◆	.42	3.00	18.00	78.00	S2M-FDITR-ND◆	3,000	60.00/M
	3.0	50	100	1.15	S3AB-FDICT-ND◆	.58	4.56	31.20	160.00	S3AB-FDITR-ND◆	3,000	132.00/M
	3.0	100	100	1.15	S3BB-FDICT-ND◆	.55	4.40	33.00	190.00	S3BB-FDITR-ND◆	3,000	155.00/M
	3.0	200	100	1.15	S3DB-FDICT-ND◆	.58	4.56	31.20	160.00	S3DB-FDITR-ND◆	3,000	132.00/M
	3.0	400	100	1.15	S3GB-FDICT-ND◆	.58	4.56	31.20	160.00	S3GB-FDITR-ND◆	3,000	132.00/M
	3.0	600	100	1.15	S3JB-FDICT-ND◆	.58	4.56	31.20	160.00	S3JB-FDITR-ND◆	3,000	132.00/M
	3.0	800	100	1.15	S3KB-FDICT-ND◆	.58	4.56	31.20	160.00	S3KB-FDITR-ND◆	3,000	132.00/M
	3.0	1,000	100	1.15	S3MB-FDICT-ND◆	.58	4.56	31.20	160.00	S3MB-FDITR-ND◆	3,000	132.00/M
SMC												
2	3.0	50	100	1.15	S3A-FDICT-ND◆	.58	4.56	31.20	160.00	S3A-FDITR-ND◆	3,000	132.00/M
	3.0	100	100	1.15	S3B-FDICT-ND◆	.58	4.56	31.20	160.00	S3B-FDITR-ND◆	3,000	132.00/M
	3.0	200	100	1.15	S3D-FDICT-ND◆	.44	3.42	23.40	120.00	S3D-FDITR-ND◆	3,000	99.00/M
	3.0	400	100	1.15	S3G-FDICT-ND◆	.44	3.42	23.40	120.00	S3G-FDITR-ND◆	3,000	99.00/M
	3.0	600	100	1.15	S3J-FDICT-ND◆	.44	3.42	23.40	120.00	S3J-FDITR-ND◆	3,000	99.00/M
	3.0	800	100	1.15	S3K-FDICT-ND◆	.44	3.42	23.40	120.00	S3K-FDITR-ND◆	3,000	99.00/M
	3.0	1,000	100	1.15	S3M-FDICT-ND◆	.58	4.56	31.20	160.00	S3M-FDITR-ND◆	3,000	132.00/M
	5.0	50	100	1.15	S5AC-FDICT-ND◆	.58	4.56	31.20	160.00	S5AC-FDITR-ND◆	3,000	132.00/M
	5.0	100	100	1.15	S5BC-FDICT-ND◆	.47	3.71	25.35	130.00	S5BC-FDITR-ND◆	3,000	107.25/M
	5.0	200	100	1.15	S5DC-FDICT-ND◆	.55	4.40	33.00	190.00	S5DC-FDITR-ND◆	3,000	155.00/M
	5.0	400	100	1.15	S5GC-FDICT-ND◆	.47	3.71	25.35	130.00	S5GC-FDITR-ND◆	3,000	107.25/M
	5.0	600	100	1.15	S5JC-FDICT-ND◆	.66	5.28	39.60	228.00	S5JC-FDITR-ND◆	3,000	186.00/M
	5.0	800	100	1.15	S5KCDICT-ND	.87	7.51	59.27	—	—	—	—

◆ *RoHS Compliant*

(Continued)

Fig. 1 — DO-41

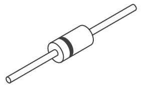

Fig. 2 — SMA, SMB, SMC

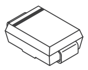

Fig. 3 — MELF (DL-41)

Fig. 4 — DO-15, DO-201AD

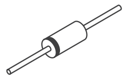

Fig. 5 — R-6

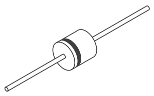

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

General Purpose and Schottky Diodes

Silicon and Glass Passivated Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (VRRM)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel	
						1	10	100	1,000		Qty.	Pricing
2	5.0	800	100	1.15	S5KC-FDICT-ND◆	.66	5.28	39.60	228.00	S5KC-FDITR-ND◆	3,000	186.00/M
	5.0	1,000	100	1.15	S5MC-FDICT-ND◆	.66	5.28	39.60	228.00	S5MC-FDITR-ND◆	3,000	186.00/M
	8.0	800	200	0.985	S8KCDICT-ND◆	.70	6.08	48.00	280.00	S8KCDITR-ND◆	3,000	232.00/M
	8.0	1,000	200	0.985	S8MCDICT-ND◆	.70	6.08	48.00	280.00	S8MCDITR-ND◆	3,000	232.00/M
MELF (DO-41) — RoHS Compliant												
3	1.0	50	30	1.1	DL4001-FDICT-ND	.55	3.90	23.40	101.40	DL4001-FDITR-ND	5,000	70.20/M
	1.0	100	30	1.1	DL4002-FDICT-ND	.70	4.76	22.40	84.00	DL4002-FDITR-ND	5,000	56.00/M
	1.0	200	30	1.1	DL4003-FDICT-ND	.42	3.00	18.00	78.00	DL4003-FDITR-ND	5,000	70.20/M
	1.0	400	30	1.1	DL4004-FDICT-ND	.55	3.90	23.40	101.40	DL4004-FDITR-ND	5,000	70.20/M
	1.0	600	30	1.1	DL4005-FDICT-ND	.59	4.20	25.20	109.20	DL4005-FDITR-ND	5,000	75.60/M
	1.0	800	30	1.1	DL4006-FDICT-ND	.42	3.00	18.00	78.00	DL4006-FDITR-ND	5,000	54.00/M
	1.0	1,000	30	1.1	DL4007-FDICT-ND	.59	4.20	25.20	109.20	DL4007-FDITR-ND	5,000	75.60/M
DO-15 — RoHS Compliant												
4	1.5	400	50	1.1	1N5395G-TDICT-ND ***NEW!***	.56	4.00	24.00	104.00	1N5395G-TDITR-ND ***NEW!***	4,000	80.00/M
	1.5	600	50	1.1	1N5397G-TDICT-ND ***NEW!***	.56	4.00	24.00	104.00	1N5397G-TDITR-ND ***NEW!***	4,000	80.00/M
	2.0	800	70	1.0	RL206DICT-ND	.42	2.99	17.91	77.62	—	—	—
	2.0	50	65	1.1	2A01GDICT-ND	.48	3.40	20.40	88.40	2A01GDITR-ND	4,000	68.00/M
	2.0	100	65	1.1	2A02GDICT-ND	.48	3.40	20.40	88.40	2A02GDITR-ND	4,000	68.00/M
	2.0	200	65	1.1	2A03GDICT-ND	.48	3.40	20.40	88.40	2A03GDITR-ND	4,000	68.00/M
	2.0	400	65	1.1	2A04GDICT-ND	.53	3.80	22.80	98.80	2A04GDITR-ND	4,000	76.00/M
	2.0	600	65	1.1	2A05GDICT-ND	.52	3.70	22.20	96.20	2A05GDITR-ND	4,000	74.00/M
	2.0	800	65	1.1	2A06GDICT-ND	.59	4.20	25.20	109.20	2A06GDITR-ND	4,000	84.00/M
	2.0	1,000	65	1.1	2A07GDICT-ND	.48	3.38	22.50	101.25	2A07GDITR-ND	4,000	81.00/M
DO-201AD — RoHS Compliant												
4	3.0	50	200	1.0	1N5400DICT-ND	.44	3.16	18.94	—	—	—	—
	3.0	100	200	1.0	1N5401DICT-ND	.52	3.70	22.20	—	1N5401DITR-ND	1,200	85.10/M
	3.0	200	200	1.0	1N5402DICT-ND	.52	3.70	22.20	—	1N5402DITR-ND	1,200	85.10/M
	3.0	400	200	1.0	1N5404DICT-ND	.52	3.70	22.20	—	1N5404DITR-ND	1,200	85.10/M
	3.0	600	200	1.0	1N5406DICT-ND	.52	3.70	22.20	—	1N5406DITR-ND	1,200	85.10/M
	3.0	800	200	1.0	1N5407DICT-ND	.52	3.70	22.20	—	1N5407DITR-ND	1,200	85.10/M
	3.0	1,000	200	1.0	1N5408DICT-ND	.52	3.70	22.20	—	1N5408DITR-ND	1,200	85.10/M
	3.0	50	125	1.1	1N5400GDICT-ND	.52	4.10	28.08	—	1N5400GDITR-ND	1,200	129.60/M
	3.0	100	125	1.1	1N5401GDICT-ND	.54	4.22	28.86	—	1N5401GDITR-ND	1,200	133.20/M
	3.0	200	125	1.1	1N5402GDICT-ND	.56	4.39	30.03	—	1N5402GDITR-ND	1,200	138.60/M
	3.0	400	125	1.1	1N5404GDICT-ND	.59	4.67	31.98	—	1N5404GDITR-ND	1,200	147.60/M
	3.0	600	125	1.1	1N5406GDICT-ND	.65	5.07	34.71	—	1N5406GDITR-ND	1,200	160.20/M
	3.0	800	125	1.1	1N5407GDICT-ND	.50	4.00	30.03	—	1N5407GDITR-ND	1,200	154.70/M
	3.0	1,000	125	1.1	1N5408GDICT-ND	.56	4.44	33.33	—	1N5408GDITR-ND	1,200	171.70/M
R-6 — RoHS Compliant												
5	6.0	50	400	0.9	6A05DICT-ND	.52	4.18	31.35	—	6A05DITR-ND	500	104.50
	6.0	100	400	0.9	6A1DICT-ND	.52	4.18	31.35	—	6A1DITR-ND	500	104.50
	6.0	200	400	0.9	6A2DICT-ND	.52	4.18	31.35	—	6A2DITR-ND	500	104.50
	6.0	400	400	0.9	6A4DICT-ND	.52	4.18	31.35	—	6A4DITR-ND	500	104.50
	6.0	600	400	0.9	6A6DICT-ND	.52	4.18	31.35	—	6A6DITR-ND	500	104.50
	6.0	800	400	0.9	6A8DICT-ND	.52	4.18	31.35	—	6A8DITR-ND	500	104.50
	6.0	1,000	400	0.9	6A10DICT-ND	.52	4.18	31.35	—	6A10DITR-ND	500	104.50
	10.0	50	600	1.0	10A01CT-ND	.73	6.27	49.50	—	10A01TR-ND	500	165.00
	10.0	100	600	1.0	10A02-TDICT-ND ***NEW!***	.75	6.46	51.00	—	10A02-TDITR-ND ***NEW!***	500	170.00
	10.0	400	600	1.0	10A04-TDICT-ND ***NEW!***	.79	6.84	54.00	—	10A04-TDITR-ND ***NEW!***	500	180.00
	10.0	600	600	1.0	10A05-TDICT-ND ***NEW!***	.81	7.03	55.50	—	10A05-TDITR-ND ***NEW!***	500	185.00
	10.0	1000	600	1.0	10A07-TDICT-ND ***NEW!***	.92	7.98	63.00	—	10A07-TDITR-ND ***NEW!***	500	210.00
PowerDI™123 — RoHS Compliant												
6	1.0	200	25	1.1	DFLR1200DICT-ND	.58	4.13	27.50	123.75	DFLR1200DITR-ND	3,000	99.00/M
	1.0	400	25	1.1	DFLR1400DICT-ND	.58	4.13	27.50	123.75	DFLR1400DITR-ND	3,000	99.00/M
	1.0	600	25	1.1	DFLR1600-7DICT-ND ***NEW!***	.58	4.13	27.50	123.75	DFLR1600-7DITR-ND ***NEW!***	3,000	99.00/M
	1.0	400	30	1.25	DFLU1400DICT-ND	.58	4.13	27.50	123.75	DFLU1400DITR-ND	3,000	99.00/M
PowerDI™5 — RoHS Compliant												
7	3.0	400	100	1.15	PDR3GDICT-ND	.66	5.70	45.00	262.50	PDR3GDITR-ND	5,000	202.50/M
	3.0	400	55	1.28	PDU340DICT-ND	1.03	9.18	72.90	445.50	PDU340DITR-ND	5,000	359.00/M
	4.0	200	125	1.25	PDU420DICT-ND	.95	8.50	67.50	412.50	PDU420DITR-ND	5,000	333.00/M
	5.0	400	100	1.15	PDR5GDICT-ND	.70	6.08	48.00	280.00	PDR5GDITR-ND	5,000	216.00/M
	5.0	400	125	1.25	PDU540DICT-ND	1.37	12.24	97.20	594.00	PDU540DITR-ND	5,000	479.00/M
	5.0	750	160	0.99	PDR5K-13DICT-ND ***NEW!***	.99	8.55	67.50	393.75	PDR5K-13DITR-ND ***NEW!***	5,000	326.00/M
	6.0	200	150	0.975	PDU620DICT-ND	1.52	13.60	108.00	660.00	PDU620DITR-ND	5,000	532.00/M

◆ ***RoHS Compliant***

Schottky Barrier Rectifiers

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
DO-41 — RoHS Compliant												
1	1.0	20	25	1.0	0.45	1N5817DICT-ND	.44	3.42	23.40	1N5817DITR-ND	5,000	93.00/M
	1.0	20	40	1.0	0.55	SR102DICT-ND	.47	3.66	25.04	—	—	—
	1.0	30	25	1.0	0.55	1N5818DICT-ND	.44	3.42	23.40	1N5818DITR-ND	5,000	93.00/M
	1.0	30	40	0.5	0.50	SB130-TDICT-ND ***NEW!***	.47	3.71	25.35	SB130-TDITR-ND ***NEW!***	5,000	101.00/M
	1.0	40	25	1.0	0.60	1N5819DICT-ND	.44	3.42	23.40	1N5819DITR-ND	5,000	93.00/M
	1.0	30	40	1.0	0.55	SR103DICT-ND	.47	3.66	25.04	—	—	—
	1.0	50	40	1.0	0.70	SR105DICT-ND	.50	3.90	26.71	—	—	—
	1.0	100	25	0.5	0.80	SB1100DICT-ND	.61	4.84	36.30	SB1100DITR-ND	5,000	159.50/M
SMA — RoHS Compliant												
2	1.0	20	30	0.5	0.50	B120-FDICT-ND	.53	3.80	22.80	B120-FDITR-ND	5,000	68.40/M
	1.0	30	30	0.5	0.50	B130-FDICT-ND	.50	3.60	21.60	B130-FDITR-ND	5,000	64.80/M
	1.0	30	25	1.0	0.41	B130L-FDICT-ND	.51	3.99	27.30	B130L-FDITR-ND	5,000	108.50/M
	1.0	40	30	0.5	0.50	B140-FDICT-ND	.50	3.60	21.60	B140-FDITR-ND	5,000	64.80/M
	1.0	50	30	0.5	0.70	B150-FDICT-ND	.47	3.71	25.35	B150-FDITR-ND	5,000	100.75/M
	1.0	60	30	0.5	0.70	B160-FDICT-ND	.56	4.00	24.00	B160-FDITR-ND	5,000	72.00/M
	1.0	70	30	0.5	0.79	B170-FDICT-ND	.86	7.41	58.50	B170-FDITR-ND	5,000	263.25/M

◆ ***RoHS Compliant*** † Tube ‡ Tested at t≤10ms

Fig. 6 — ***PowerDI™123***

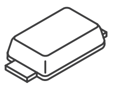

Fig. 7 — ***PowerDI™5***

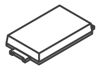

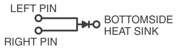

Fig. 8 — ***PowerDI®-323***

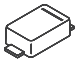

Fig. 9 — ***POWERMITE®3***

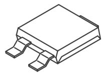

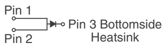

(Continued)

General Purpose and Schottky Diodes
Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
2	1.0	80	30	0.5	0.79	B180-FDICT-ND	.88	7.60	60.00	B180-FDITR-ND	5,000	270.00/M
	1.0	90	30	0.5	0.79	B190-FDICT-ND	.90	7.79	61.50	B190-FDITR-ND	5,000	276.75/M
	1.0	100	30	0.5	0.79	B1100-FDICT-ND	.44	3.42	23.40	B1100-FDITR-ND	5,000	93.00/M
	2.0	20	50	0.5	0.50	B220A-FDICT-ND	.58	4.13	27.50	B220A-FDITR-ND	5,000	93.50/M
	2.0	30	50	0.5	0.50	B230A-FDICT-ND	.58	4.13	27.50	B230A-FDITR-ND	5,000	93.50/M
	2.0	40	50	0.5	0.50	B240A-FDICT-ND	.58	4.13	27.50	B240A-FDITR-ND	5,000	93.50/M
	2.0	50	50	0.5	0.70	B250A-FDICT-ND	.52	4.18	31.35	B250A-FDITR-ND	5,000	137.75/M
	2.0	60	50	0.5	0.70	B260A-FDICT-ND	.51	3.99	27.30	B260A-FDITR-ND	5,000	108.50/M
	3.0	20	100	0.5	0.50	B320A-FDICT-ND	.66	5.70	45.00	B320A-FDITR-ND	5,000	202.50/M
	3.0	30	100	0.5	0.50	B330A-FDICT-ND	.55	4.40	33.00	B330A-FDITR-ND	5,000	145.00/M
	3.0	40	100	0.5	0.50	B340A-FDICT-ND	.50	3.96	29.70	B340A-FDITR-ND	5,000	130.50/M
	3.0	40	70	1.0	0.35	B340LA-FDICT-ND	.61	4.84	36.30	B340LA-FDITR-ND	5,000	159.50/M
	3.0	50	100	0.5	0.70	B350A-FDICT-ND	.66	5.28	39.60	B350A-FDITR-ND	5,000	174.00/M
	3.0	60	100	0.5	0.7	B360A-FDICT-ND	.55	4.40	33.00	B360A-FDITR-ND	5,000	145.00/M
SMB												
2	1.0	20	30	0.5	0.50	B120B-FDICT-ND◆	.44	3.42	23.40	B120B-FDITR-ND◆	3,000	99.00/M
	1.0	20	30	0.5	0.55	SK12DICT-ND	.59	4.72	35.37	—	—	—
	1.0	20	30	0.5	0.55	SK12-FDICT-ND◆	.66	5.70	45.00	SK12-FDITR-ND◆	3,000	217.50/M
	1.0	30	30	0.5	0.50	B130B-FDICT-ND◆	.53	3.75	25.00	B130B-FDITR-ND◆	3,000	90.00/M
	1.0	30	40	1.0	0.445	B130LB-FDICT-ND◆	.47	3.71	25.35	B130LB-FDITR-ND◆	3,000	107.00/M
	1.0	30	25	0.5	0.55	SK13-FDICT-ND◆	.68	5.89	46.50	SK13-FDITR-ND◆	3,000	224.75/M
	1.0	40	30	0.5	0.50	B140B-FDICT-ND◆	.58	4.13	27.50	B140B-FDITR-ND◆	3,000	99.00/M
	1.0	40	45	0.1	0.53	B140HB-FDICT-ND◆	.44	3.42	23.40	B140HB-FDITR-ND◆	3,000	99.00/M
	1.0	40	25	0.5	0.55	SK14-FDICT-ND◆	.70	6.08	48.00	SK14-FDITR-ND◆	3,000	232.00/M
	1.0	50	30	0.5	0.50	B150B-FDICT-ND◆	.75	6.46	51.00	B150B-FDITR-ND◆	3,000	246.50/M
	1.0	50	25	0.5	0.70	SK15-FDICT-ND◆	1.01	8.74	69.00	SK15-FDITR-ND◆	3,000	333.50/M
	1.0	60	30	0.5	0.70	B160B-FDICT-ND◆	.75	6.46	51.00	B160B-FDITR-ND◆	3,000	246.50/M
	1.0	60	25	0.5	0.70	SK16-FDICT-ND◆	.99	8.84	70.20	SK16-FDITR-ND◆	3,000	364.00/M
	1.0	70	30	0.5	0.79	B170B-FDICT-ND◆	.95	8.17	64.50	B170B-FDITR-ND◆	3,000	312.00/M
	1.0	80	30	0.5	0.79	B180BDICT-ND	.83	7.18	56.69	—	—	—
	1.0	80	30	0.5	0.79	B180B-FDICT-ND◆	.97	8.36	66.00	B180B-FDITR-ND◆	3,000	319.00/M
	1.0	90	30	0.5	0.79	B190B-FDICT-ND◆	.99	8.55	67.50	B190B-FDITR-ND◆	3,000	326.25/M
	1.0	100	30	0.5	0.79	B1100B-FDICT-ND◆	1.01	8.74	69.00	B1100B-FDITR-ND◆	3,000	333.50/M
	1.0	100	50	0.5	0.75	B1100LB-FDICT-ND◆	.54	4.28	29.25	B1100LB-FDITR-ND◆	3,000	123.75/M
	2.0	20	50	0.5	0.50	B220-FDICT-ND◆	.54	4.28	29.25	B220-FDITR-ND◆	3,000	124.00/M
	2.0	30	50	0.5	0.50	B230-FDICT-ND◆	.54	4.28	29.25	B230-FDITR-ND◆	3,000	123.75/M
	2.0	40	50	0.5	0.50	B240-FDICT-ND◆	.54	4.28	29.25	B240-FDITR-ND◆	3,000	123.75/M
	2.0	50	50	0.5	0.70	B250-FDICT-ND◆	.51	3.99	27.30	B250-FDITR-ND◆	3,000	115.50/M
	2.0	60	50	0.5	0.70	B260-FDICT-ND◆	.47	3.71	25.35	B260-FDITR-ND◆	3,000	107.25/M
	2.0	70	50	7.0	0.79	B270-FDICT-ND◆	1.06	9.52	75.60	B270-FDITR-ND◆	3,000	392.00/M
	2.0	80	50	7.0	0.79	B280-FDICT-ND◆	.58	4.56	31.20	B280-FDITR-ND◆	3,000	132.00/M
	2.0	90	50	7.0	0.79	B290-FDICT-ND◆	1.14	10.20	81.00	B290-FDITR-ND◆	3,000	420.00/M
	2.0	100	50	7.0	0.79	B2100-FDICT-ND◆	.58	4.56	31.20	B2100-FDITR-ND◆	3,000	132.00/M
	3.0	20	100	0.5	0.50	B320B-FDICT-ND◆	.58	4.62	34.65	B320B-FDITR-ND◆	3,000	162.75/M
	3.0	30	100	0.5	0.50	B330B-FDICT-ND◆	.61	4.84	36.30	B330B-FDITR-ND◆	3,000	170.50/M
	3.0	40	100	0.5	0.50	B340B-FDICT-ND◆	.58	4.56	31.20	B340B-FDITR-ND◆	3,000	132.00/M
	3.0	40	70	2.0	0.45	B340LB-FDICT-ND◆	.50	3.96	29.70	B340LB-FDITR-ND◆	3,000	139.50/M
	3.0	50	100	0.5	0.70	B350B-FDICT-ND◆	.66	5.28	39.60	B350B-FDITR-ND◆	3,000	186.00/M
	3.0	60	100	0.5	0.50	B360B-FDICT-ND◆	.61	4.84	36.30	B360B-FDITR-ND◆	3,000	170.50/M
SMC — RoHS Compliant												
2	3.0	20	100	0.5	0.50	B320-FDICT-ND	.55	4.40	33.00	B320-FDITR-ND	3,000	155.00/M
	3.0	20	100	0.5	0.50	SK32-FDICT-ND	1.37	12.24	97.20	SK32-FDITR-ND	500	342.00
	3.0	30	100	0.5	0.50	B330-FDICT-ND	.63	5.06	37.95	B330-FDITR-ND	3,000	178.25/M
	3.0	30	100	0.5	0.50	SK33-FDICT-ND	1.41	12.58	99.90	SK33-FDITR-ND	500	351.50
	3.0	40	100	0.5	0.50	B340-FDICT-ND	.50	3.96	29.70	B340-FDITR-ND	3,000	139.50/M
	3.0	40	100	0.5	0.50	SK34-FDICT-ND	1.44	12.92	102.60	SK34-FDITR-ND	500	361.00
	3.0	50	100	0.5	0.70	B350-FDICT-ND	.66	5.28	39.60	B350-FDITR-ND	3,000	186.00/M
	3.0	50	100	0.5	0.75	SK35-FDICT-ND	1.86	15.90	129.85	SK35-FDITR-ND	500	463.75
	3.0	60	100	0.5	0.70	B360-FDICT-ND	.61	4.84	36.30	B360-FDITR-ND	3,000	170.50/M
	3.0	60	100	0.5	0.75	SK36-FDICT-ND	2.10	18.00	147.00	SK36-FDITR-ND	500	525.00
	3.0	70	100	0.5	0.79	B370-FDICT-ND	.77	6.16	46.20	B370-FDITR-ND	3,000	217.00/M
	3.0	80	100	0.5	0.79	B380-FDICT-ND	1.75	15.64	124.20	B380-FDITR-ND	3,000	644.00/M
	3.0	90	100	0.5	0.79	B390-FDICT-ND	1.79	15.98	126.90	B390-FDITR-ND	3,000	658.00/M
	3.0	100	100	0.5	0.79	B3100-FDICT-ND	.66	5.70	45.00	B3100-FDITR-ND	3,000	217.50/M
	5.0	20	175	0.5	0.55	B520C-FDICT-ND	1.06	9.12	72.00	B520C-FDITR-ND	3,000	348.00/M
	5.0	30	175	0.5	0.55	B530C-FDICT-ND	1.06	9.12	72.00	B530C-FDITR-ND	3,000	348.00/M
	5.0	40	175	0.5	0.55	B540C-FDICT-ND	1.06	9.12	72.00	B540C-FDITR-ND	3,000	348.00/M
	5.0	50	175	0.5	0.70	B550C-FDICT-ND	.99	8.84	70.20	B550C-FDITR-ND	3,000	364.00/M
	5.0	60	175	0.5	0.70	B560C-FDICT-ND	.99	8.84	70.20	B560C-FDITR-ND	3,000	364.00/M
DO-201AD — RoHS Compliant												
4	3.0	20	80	2.0	0.475	1N5820DICT-ND	.74	5.94	44.55	1N5820DITR-ND	1,200	229.50/M
	3.0	30	80	2.0	0.500	1N5821DICT-ND	.74	5.94	44.55	1N5821DITR-ND	1,200	229.50/M
	3.0	40	80	2.0	0.525	1N5822DICT-ND	.74	5.94	44.55	1N5822DITR-ND	1,200	229.50/M
	3.0	50	80	0.5	0.74	SB350-TDICT-ND ***NEW!***	.69	5.50	41.25	SB350-TDITR-ND ***NEW!***	1,200	213.00/M
	3.0	100	80	0.5	0.79	SB3100DICT-ND	.66	5.70	45.00	SB3100DITR-ND	1,200	240.00/M
	5.0	30	250	1.0	0.55	SR503DICT-ND	.87	7.51	59.27	—	—	—
	5.0	100	150	0.5	0.80	SB5100DICT-ND	1.29	11.56	91.80	SB5100DITR-ND	1,200	510.00/M
PowerDI™123 — RoHS Compliant												
6	1.0	30	22	1.0	0.42	DFLS130DICT-ND	.55	4.40	33.00	DFLS130DITR-ND	3,000	155.00/M
	1.0	30	33	1.0	0.36	DFLS130LDICT-ND	.55	4.40	33.00	DFLS130LDITR-ND	3,000	155.00/M
	1.0	40	50	0.1	0.36	DFLS140LDICT-ND	.55	4.40	33.00	DFLS140LDITR-ND	3,000	155.00/M
	1.0	60	50	0.1	0.50	DFLS160DICT-ND	.55	4.40	33.00	DFLS160DITR-ND	3,000	155.00/M
	1.0	100	40	0.001	0.86	DFLS1100DICT-ND	.66	5.28	39.60	DFLS1100DITR-ND	3,000	186.00/M
	1.0	150	50	0.002	0.82	DFLS1150DICT-ND	.66	5.28	39.60	DFLS1150DITR-ND	3,000	186.00/M
	1.0	200	40	0.002	0.85	DFLS1200DICT-ND	.88	7.60	60.00	DFLS1200DITR-ND	3,000	290.00/M
	1.1	40	40	0.02	0.51	DFLS140DICT-ND	.74	5.94	44.55	DFLS140DITR-ND	3,000	209.25/M
	2.0	20	22	1.0	0.36	DFLS220LDICT-ND	.79	6.84	54.00	DFLS220LDITR-ND	3,000	261.00/M
	2.0	30	22	1.0	0.42	DFLS230DICT-ND	.75	6.46	51.00	DFLS230DITR-ND	3,000	246.50/M
	2.0	30	33	1.0	0.42	DFLS230LDICT-ND	.79	6.84	54.00	DFLS230LDITR-ND	3,000	261.00/M
	2.0	30	75	0.2	0.45	DFLS230LHDICT-ND	.84	7.22	57.00	DFLS230LHDITR-ND	3,000	275.50/M
	2.0	40	50	0.1	0.50	DFLS240LDICT-ND	.79	6.84	54.00	DFLS240LDITR-ND	3,000	261.00/M

◆ ***RoHS Compliant*** † Tube ‡ Tested at t≤10ms

Fig. 10 — D2PAK

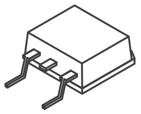

A

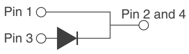

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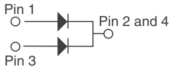

C

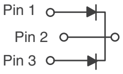

Fig. 11 — SOD-123

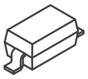

Fig. 12 — SOD-323

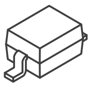

(Continued)

General Purpose and Schottky Diodes

Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
PowerDI™5 — RoHS Compliant												
7	3.0	40	90	0.5	0.49	PDS340DICT-ND	1.14	10.20	81.00	PDS340DITR-ND	5,000	399.00/M
	3.0	60	100	0.15	0.62	PDS360DICT-ND	1.37	12.24	97.20	PDS360DITR-ND	5,000	478.80/M
	3.0	100	90	0.1	0.75	PDS3100DICT-ND	1.29	11.56	91.80	PDS3100DITR-ND	5,000	452.20/M
	3.0	200	180	0.01	0.78	PDS3200DICT-ND	1.82	16.32	129.60	PDS3200DITR-ND	5,000	638.40/M
	4.0	150	180	0.01	0.76	PDS4150DICT-ND	1.82	16.32	129.60	PDS4150DITR-ND	5,000	638.40/M
	5.0	40	120	0.25	0.52	PDS540DICT-ND	1.37	12.24	97.20	PDS540DITR-ND	5,000	478.80/M
	5.0	40	110	0.2	0.50	PDS1040CTLDICT-ND	2.10	18.00	147.00	PDS1040CTLDITR-ND	5,000	780.00/M
	5.0	60	120	0.15	0.67	PDS560DICT-ND	1.52	13.60	108.00	PDS560DITR-ND	5,000	532.00/M
	5.0	100	120	0.2	0.79	PDS5100DICT-ND	1.60	14.28	113.40	PDS5100DITR-ND	5,000	558.60/M
	5.0	100	250	0.0035	0.71	PDS5100HDICT-ND	1.82	16.32	129.60	PDS5100HDITR-ND	5,000	638.40/M
	7.0	60	275	0.2	0.62	PDS760DICT-ND	1.71	15.30	121.50	PDS760DITR-ND	5,000	598.50/M
	8.0	35	120	1.4	0.51	PDS835LDICT-ND	1.52	13.60	108.00	PDS835LDITR-ND	5,000	532.00/M
	10.0	40	275	0.7	0.51	PDS1040DICT-ND	1.33	11.90	94.50	PDS1040DITR-ND	5,000	465.50/M
	10.0	40	275	0.6	0.46	PDS1040LDICT-ND	1.33	11.90	94.50	PDS1040LDITR-ND	5,000	465.50/M
	10.0	45	275	0.6	0.51	PDS1045DICT-ND	1.71	15.30	121.50	PDS1045DITR-ND	5,000	598.50/M
PowerDI®323 — RoHS Compliant												
8	1.0	20	33	0.16	0.42	PD3S120LDICT-ND	.66	5.28	39.60	PD3S120LDITR-ND	3,000	186.00/M
	1.0	30	22	0.1	0.45	PD3S130HDICT-ND	.55	4.40	33.00	PD3S130HDITR-ND	3,000	155.00/M
	1.0	30	22	1.5	0.42	PD3S130LDICT-ND	.66	5.28	39.60	PD3S130LDITR-ND	3,000	186.00/M
	1.0	40	22	0.05	0.55	PD3S140DICT-ND	.50	3.96	29.70	PD3S140DITR-ND	3,000	140.00/M
	1.0	60	22	0.05	0.64	PD3S160DICT-ND	.55	4.40	33.00	PD3S160DITR-ND	3,000	155.00/M
POWERMITE®3												
9	3.0	40	50	0.5	0.50	SBM340-FDICT-ND◆	1.47	13.17	104.55	—	—	—
	3.0	60	50	0.2	0.63	MBRM360DICT-ND	1.05	9.36	74.35	—	—	—
	3.0	100	50	0.1	0.76	MBRM3100-FDICT-ND◆	1.84	15.77	128.83	—	—	—
	5.0	60	100	0.2	0.69	MBRM560DICT-ND	1.31	11.70	92.93	—	—	—
	5.0	100	100	0.2	0.81	MBRM5100-FDICT-ND◆	1.93	16.55	135.16	—	—	—
D2PAK — RoHS Compliant												
10A	10.0	25	200	1.0	0.45	SBG1025L-T-FDICT-ND	1.79	15.30	124.95	SBG1025L-T-FDITR-ND	800	642.60
10B	10.0	30	125	1.0	0.55	SBG1030CT-T-FDICT-ND	1.06	9.12	72.00	SBG1030CT-T-FDITR-ND	800	336.00
	10.0	35	125	1.0	0.55	SBG1035CT-T-FDICT-ND	1.86	15.90	129.85	—	—	—
	10.0	40	125	1.0	0.55	SBG1040CT-T-FDICT-ND	1.52	13.60	108.00	SBG1040CT-T-FDITR-ND	800	531.20
	10.0	45	125	1.0	0.55	SBG1045CT-T-FDICT-ND	1.93	16.50	134.75	SBG1045CT-T-FDITR-ND	800	693.00
	15.0	35	150	0.1	0.7	MBRB1535CTDICT-ND	1.57	13.45	109.82	—	—	—
	15.0	40	150	0.1	0.7	MBRB1540CTDICT-ND	1.86	15.90	129.85	MBRB1540CTDITR-ND	800	667.80
	15.0	45	150	0.1	0.7	MBRB1545CTDICT-ND	1.89	16.20	132.30	MBRB1545CTDITR-ND	800	680.40
	16.0	30	175	1.0	0.55	SBG1630CT-T-FDICT-ND	1.96	16.80	137.20	SBG1630CT-T-FDITR-ND	800	705.60
	16.0	35	175	1.0	0.55	SBG1635CT-T-FDICT-ND	2.00	17.10	139.65	SBG1635CT-T-FDITR-ND	800	718.20
	16.0	40	175	1.0	0.55	SBG1640CT-FDICT-ND	2.03	17.40	142.10	SBG1640CT-FDITR-ND	800	731.20
	16.0	45	175	1.0	0.55	SBG1645CT-T-FDICT-ND	1.14	10.20	81.00	SBG1645CT-T-FDITR-ND	800	398.40
	20.0	30	225	1.0	0.55	SBG2030CT-T-FDICT-ND	1.48	13.26	105.30	SBG2030CT-T-FDITR-ND	800	517.92
	20.0	35	225	1.0	0.55	SBG2035CT-T-FDICT-ND	2.17	18.60	151.90	SBG2035CT-T-FDITR-ND	800	781.20
	20.0	40	225	1.0	0.55	SBG2040CT-FDICT-ND	1.48	13.26	105.30	SBG2040CT-FDITR-ND	800	517.92
	20.0	45	225	1.0	0.55	SBG2045CT-T-FDICT-ND	1.48	13.26	105.30	SBG2045CT-T-FDITR-ND	800	517.92
	30.0	30	250	1.0	0.55	SBG3030CT-T-FDICT-ND	2.10	18.00	147.00	SBG3030CT-T-FDITR-ND	800	756.00
	30.0	45	250	1.0	0.55	SBG3045CT-T-FDICT-ND	3.01	25.80	210.70	SBG3045CT-T-FDITR-ND	800	1083.60
	30.0	50	250	1.0	0.70	SBG3050CT-T-FDICT-ND	3.05	26.10	213.15	SBG3050CT-T-FDITR-ND	800	1096.20
	30.0	60	250	1.0	0.70	SBG3060CTDICT-ND	2.78	23.79	194.29	—	—	—
	30.0	60	250	1.0	0.70	SBG3060CT-T-FDICT-ND	3.08	26.40	215.60	SBG3060CT-T-FDITR-ND	800	1108.80
SOD-123 — RoHS Compliant												
11	0.5	20	5.5	—	0.300	B0520LW-FDICT-ND	.48	3.40	20.40	B0520LW-FDITR-ND	3,000	68.00/M
	0.5	30	5.5	0.13	0.375	B0530W-FDICT-ND	.48	3.40	20.40	B0530W-FDITR-ND	3,000	68.00/M
	0.5	40	5.5	0.02	0.510	B0540W-FDICT-ND	.48	3.40	20.40	B0540W-FDITR-ND	3,000	68.00/M
	1.0	30	12	1.0	0.42	B130LAW-FDICT-ND	.66	5.28	39.60	B130LAW-FDITR-ND	3,000	186.00/M
	1.0	40	6.6	0.04	0.55	B140HWDICT-ND	.66	5.28	39.60	B140HWDITR-ND	3,000	186.00/M
	1.0	40	25	1.0	0.320	1N5819HW-FDICT-ND	.48	3.38	22.50	1N5819HW-FDITR-ND	3,000	81.00/M
SOD-323 — RoHS Compliant												
12	0.1	45	1.0	0.001	0.45	SDM10K45-FDICT-ND	.66	5.70	45.00	SDM10K45-FDITR-ND	3,000	58.75/M
SOD-523 — RoHS Compliant												
13	0.1	45	1.0‡	0.001	0.55	SDM10U45-FDICT-ND	.63	4.25	20.00	SDM10U45-FDITR-ND	3,000	58.75/M
TO-220AC — RoHS Compliant												
14	16.0	45	150	0.2	0.63	MBR1645DI-ND† ***NEW!***	1.47	13.02	102.90	—	—	—
	16.0	45	275	1.0	0.57	SBL1645DI-ND†	1.92	17.36	139.50	—	—	—
TO-220AB — RoHS Compliant												
15	10.0	45	250	10.0	0.60	SBL1045CTDI-ND†	1.77	15.96	128.25	—	—	—
	16.0	45	250	0.5	0.55	SBL1645CTDI-ND†	2.05	18.48	148.50	—	—	—
	20.0	45	250	20.0	0.60	SBL2045CTDI-ND†	2.17	19.60	157.50	—	—	—
	30.0	45	250	1.0	0.55	SBL3045CTDI-ND†	2.42	21.84	175.50	—	—	—
NEW! ITO-220S — RoHS Compliant NEW!												
15	10.0	45	150	—	0.65	MBR2045CTPDI-ND†	1.61	14.26	112.70	—	—	—
	10.0	60	170	—	0.8	MBR2060CTPDI-ND†	1.68	14.88	117.60	—	—	—
	15.0	45	250	—	0.65	MBR3045CTPDI-ND†	1.86	16.80	135.00	—	—	—
	15.0	60	250	—	0.75	MBR3060CTPDI-ND†	2.23	20.16	162.00	—	—	—
TO-3P — RoHS Compliant												
16	60.0	45	500	1.0	0.75	MBR6045PTDI-ND†	4.14	37.00	303.40	—	—	—
SOT-23 — RoHS Compliant												
17	0.75	28	5.5	-100	0.65	BAT750CT-ND	.49	3.45	23.00	BAT750TR-ND	3,000	83.00/M
	1.0	40	5.5	-10	0.60	BAT1000-7-FDICT-ND ***NEW!***	.66	5.28	39.60	BAT1000-7-FDITR-ND ***NEW!***	3,000	186.00/M

◆ ***RoHS Compliant***   † Tube   ‡ Tested at t≤10ms

Fig. 13 — SOD-523

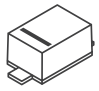

Fig. 14 — TO-220AC

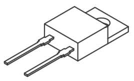

Fig. 15 — TO-220AB, ITO-220S

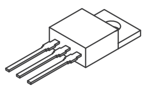

Fig. 16 — TO-3P

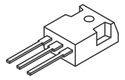

Fig. 17 — SOT-23 *NEW!*

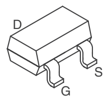

Fig. 18 — DFN1006-2, DFN1006H4-2

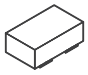

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

General Purpose and Schottky Diodes *(Cont.)*

Super Barrier Rectifiers

RoHS COMPLIANT

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
					NEW! SMA NEW!						
2	1.0	40	25	0.5	SBR1A40SA-13DICT-ND	.46	3.59	24.57	SBR1A40SA-13DITR-ND	2,500	104.00/M
	2.0	40	25	0.55	SBR2A40SA-13DICT-ND	.55	4.40	33.00	SBR2A40SA-13DITR-ND	2,500	155.00/M
					PowerDI™123						
6	2.0	30	75	0.45	SBR2A30P1-7DICT-ND ***NEW!***	.59	4.20	28.00	SBR2A30P1-7DITR-ND ***NEW!***	3,000	101.00/M
	2.0	30	75	0.46	SBR2M30P1DICT-ND	.50	3.93	26.91	SBR2M30P1DITR-ND	3,000	114.00/M
	2.0	30	75	0.12	SBR2U30P1DICT-ND	.50	3.93	26.91	SBR2U30P1DITR-ND	3,000	114.00/M
	3.0	30	75	0.50	SBR3M30P1DICT-ND	.62	4.85	33.15	SBR3M30P1DITR-ND	3,000	140.00/M
	3.0	30	75	0.20	SBR3U30P1DICT-ND	.62	4.85	33.15	SBR3U30P1DITR-ND	3,000	140.00/M
	3.0	40	75	0.34	SBR3U40P1DICT-ND	.72	5.78	43.33	SBR3U40P1DITR-ND	3,000	204.00/M
					PowerDI™5						
7	8.0	45	180	0.6	SBR8A45SP5-13DICT-ND ***NEW!***	.88	7.60	60.00	SBR8A45SP5-13DITR-ND ***NEW!***	5,000	270.00/M
	8.0	60	280	0.53	SBR8U60P5DICT-ND	1.10	9.86	78.30	SBR8U60P5DITR-ND	5,000	386.00/M
	10	32	275	0.47	SBR10U45SP5-13DICT-ND ***NEW!***	1.14	10.20	81.00	SBR10U45SP5-13DITR-ND ***NEW!***	5,000	399.00/M
	10	200	180	0.88	SBR10U200P5DICT-ND	1.82	16.32	129.60	SBR10U200P5DITR-ND	5,000	638.00/M
	10	45	180	0.53	SBR1045SP5-13DICT-ND ***NEW!***	1.06	9.12	72.00	SBR1045SP5-13DITR-ND ***NEW!***	5,000	324.00/M
					D2PAK						
10A	10	40	85	0.60	SBR1040CTBDI-ND†	.84	7.35	56.70	—	—	—
10C	15	45	220	0.65	SBR3045SCTB-ND† ***NEW!***	1.16	10.23	80.85	—	—	—
	20	200	180	0.66	SBR20A200CTB-ND†	1.40	12.40	98.00	—	—	—
	20	200	180	0.96	SBR20A200CTBDICT-ND ***NEW!***	1.52	13.60	108.00	SBR20A200CTBDITR-ND ***NEW!***	800	531.20
	30	100	180	0.85	SBR30A100CTBDICT-ND	1.73	15.47	122.85	SBR30A100CTBDITR-ND	800	604.00
	30	60	180	0.63	SBR30A60CTBDI-ND†	1.56	13.80	109.03	—	—	—
					NEW! SOD-123 NEW!						
11	0.5	60	15	0.5	SBR0560S1DICT-ND	.56	3.94	26.25	SBR0560S1DITR-ND	3,000	95.00/M
					NEW! SOD-323 NEW!						
12	1.0	30	20	0.46	SBR130S3-7DICT-ND	.49	3.45	23.00	SBR130S3-7DITR-ND	3,000	83.00/M
					NEW! SOD-523 NEW!						
13	2.0	20	5	0.47	SBR0220T5-7DICT-ND	.51	3.60	24.00	SBR0220T5-7DITR-ND	3,000	86.00/M
					TO-220AB						
15	10	40	200	0.47	SBR20U40CT-GDI-ND† ***NEW!***	1.80	16.24	130.50	—	—	—
	10	150	120	0.92	SBR10150CTFPDI-ND† ***NEW!***	.82	7.18	55.35	—	—	—
	10	200	110	0.90	SBR10200CTBDICT-ND	1.03	9.18	72.90	SBR10200CTBDITR-ND	800	358.40
	15	40	250	0.65	SBR30M40CTFPDI-ND† ***NEW!***	1.67	15.12	121.50	—	—	—
	20	40	180	0.6	SBR20A40CTFPDI-ND† ***NEW!***	1.05	9.30	73.50	—	—	—
	20	45	180	0.60	SBR20A45CTDI-ND†	1.03	9.15	72.28	—	—	—
	20	60	180	0.79	SBR20A60CTFPDI-ND† ***NEW!***	1.09	9.61	75.95	—	—	—
	20	100	180	0.85	SBR20A100CTDI-ND†	1.07	9.46	74.73	—	—	—
	20	150	180	0.91	SBR20A150CTDI-ND†	1.12	9.92	78.40	—	—	—
	20	200	180	0.96	SBR20A200CTDI-ND†	1.17	10.39	82.08	—	—	—
	20	300	180	0.92	SBR20A300CTBDI-ND†	1.86	16.80	135.00	—	—	—
	30	30	280	0.34	SBR30U30CT-ND†	2.70	24.36	195.75	—	—	—
	30	60	250	0.6	SBR30A60CTDI-ND† ***NEW!***	1.28	11.32	89.43	—	—	—
	30	100	350	0.84	SBR60A100CTDI-ND† ***NEW!***	2.68	24.22	194.63	—	—	—
	30	300	200	1.03	SBR30300CTFPDI-ND† ***NEW!***	1.72	15.54	124.88	—	—	—
	40	60	280	0.6	SBR40U60CTDI-ND† ***NEW!***	3.33	29.75	243.95	—	—	—
	40	100	235	0.72	SBR40U100CTDI-ND†	3.67	32.75	268.55	—	—	—
	40	120	300	0.86	SBR40U120CTDI-ND†	3.04	27.44	220.50	—	—	—
	40	150	300	0.80	SBR40U150CTDI-ND†	3.78	33.75	276.75	—	—	—
	40	200	240	0.89	SBR40U200CTDI-ND†	3.92	35.00	287.00	—	—	—
	40	300	235	0.89	SBR40U300CTDI-ND†	2.50	22.54	181.13	—	—	—
	60	60	280	0.46	SBR60A60CT-ND†	3.39	30.25	248.05	—	—	—
	60	150	250	0.93	SBR60A150CTDI-ND†	3.89	34.75	284.95	—	—	—
	60	200	250	0.96	SBR60A200CTDI-ND†	4.09	36.50	299.30	—	—	—
					NEW! ITO-220S NEW!						
15	10	100	150	0.82	SBR20100CTPDI-ND†	1.19	10.54	83.30	—	—	—
					DFN1006-2						
18	0.2	20	5	0.42	SBR0220LPDICT-ND	.52	4.10	28.08	SBR0220LPDITR-ND	3,000	119.00/M
	0.2	30	5	0.48	SBR02U30LP-7DICT-ND ***NEW!***	.44	3.42	23.40	SBR02U30LP-7DITR-ND ***NEW!***	3,000	99.00/M
	0.2	30	5	0.61	SBR02M30LPDICT-ND	.58	4.56	31.20	SBR02M30LPDITR-ND	3,000	132.00/M
	0.25	40	5	0.59	SBR0240LP-7DICT-ND ***NEW!***	.44	3.42	23.40	SBR0240LP-7DITR-ND ***NEW!***	3,000	99.00/M
	0.25	100	5	0.80	SBR02U100LPDICT-ND	.62	4.85	33.15	SBR02U100LPDITR-ND	3,000	140.00/M
	0.5	20	5	0.50	SBR05U20LPDICT-ND	.66	5.28	39.60	SBR05U20LPDITR-ND	3,000	186.00/M
					DFN1006H4-2						
18	0.5	20	6	0.50	SBR05U20LPSDICT-ND	.66	5.28	39.60	SBR05U20LPSDITR-ND	3,000	186.00/M
	0.7	20	7	0.55	SBR07U20LPSDICT-ND	.66	5.28	39.60	SBR07U20LPSDITR-ND	3,000	186.00/M
					DFN1411-3						
19	1.0	40	—	0.49	SBR1U40LPDICT-ND	.66	5.28	39.60	SBR1U40LPDITR-ND	3,000	186.00/M
					TO-247						
20	60	300	300	0.94	SBR60A300PT-ND†	4.76	42.50	348.50	—	—	—
					NEW! SC-59 NEW!						
21	0.5	20	3	0.56	SBR05U20SNDICT-ND	.44	3.42	23.40	SBR05U20SNDITR-ND	3,000	99.00/M
					NEW! 4-DFN NEW!						
22	0.5	60	8	0.43	SBR05M60BLPDICT-ND	.92	7.98	63.00	SBR05M60BLPDITR-ND	3,000	305.00/M
					NEW! TO-262 NEW!						
23	10	100	180	0.82	SBR20100CTEDI-ND†	.93	8.22	64.93	—	—	—
	10	100	200	0.7	SBR20U100CTEDI-ND†	1.60	14.42	115.88	—	—	—
	10	100	250	0.75	SBR20A100CTEDI-ND†	1.45	12.87	101.68	—	—	—
	15	100	250	0.8	SBR30A100CTE-ND†	1.67	15.12	121.50	—	—	—
	20	60	230	0.6	SBR40U60CTEDI-ND†	2.48	22.40	180.00	—	—	—
	20	100	240	0.78	SBR40U100CTEDI-ND†	2.62	23.66	190.13	—	—	—
	20	120	300	0.86	SBR40U120CTEDI-ND†	2.67	24.14	193.95	—	—	—

◆ ***RoHS Compliant*** † Tube ‡ Tested at t≤10ms

Fig. 19 — DFN1411-3

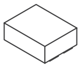

Fig. 20 — TO-247

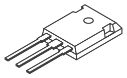

Fig. 21 — SC-59 *NEW!*

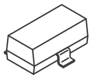

Fig. 22 — 4-DFN *NEW!*

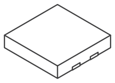

Fig. 23 — TO-262 *NEW!*

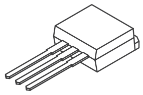

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fast Recovery Rectifiers

Fig. 1 — DO-41

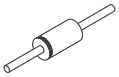

Fig. 2 — MELF (DL-41)

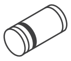

Fig. 3 — DO-201AD

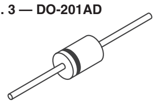

Fig. 4 — R-6

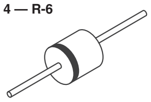

Fig. 5 — TO-220A

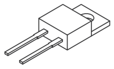

Fig. 6 — SMA, SMB, SMC

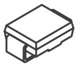

Fig.	Pkg.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
									1	10	100		Qty.	Pricing
1	DO-41	1.0	50	50	5.0	1.2	200	1N4933DICT-ND◆	.58	3.91	18.40	1N4933DITR-ND◆	5,000	46.00/M
	DO-41	1.0	100	50	5.0	1.2	200	1N4934DICT-ND◆	.58	3.91	18.40	1N4934DITR-ND◆	5,000	46.00/M
	DO-41	1.0	200	50	5.0	1.2	200	1N4935DICT-ND◆	.58	3.91	18.40	1N4935DITR-ND◆	5,000	46.00/M
	DO-41	1.0	400	50	5.0	1.2	200	1N4936DICT-ND◆	.58	3.91	18.40	1N4936DITR-ND◆	5,000	46.00/M
	DO-41	1.0	600	50	5.0	1.2	200	1N4937DICT-ND◆	.58	3.91	18.40	1N4937DITR-ND◆	5,000	46.00/M
	DO-41	1.0	1000	30	5.0	1.3	500	PR1007G-TDICT-ND◆ ***NEW!***	.48	3.38	22.50	PR1007G-TDITR-ND◆ ***NEW!***	5,000	77.00/M
2	MELF	1.0	50	30	5.0	1.2	200	DL4933-FDICT-ND◆	.58	4.56	31.20	DL4933-FDITR-ND◆	5,000	124.00/M
	MELF	1.0	100	30	5.0	1.2	200	DL4934-FDICT-ND◆	.62	4.85	33.15	DL4934-FDITR-ND◆	5,000	131.75/M
	MELF	1.0	200	30	5.0	1.2	200	DL4935-FDICT-ND◆	.50	3.96	29.70	DL4935-FDITR-ND◆	5,000	130.50/M
	MELF	1.0	400	30	5.0	1.2	200	DL4936-FDICT-ND◆	.52	4.18	31.35	DL4936-FDITR-ND◆	5,000	137.75/M
	MELF	1.0	600	30	5.0	1.2	200	DL4937-FDICT-ND◆	.55	4.40	33.00	DL4937-FDITR-ND◆	5,000	145.00/M
3	DO-201AD	3.0	50	150	5.0	1.2	150	PR3001-TDICT-ND◆ ***NEW!***	.62	4.40	26.40	PR3001-TDITR-ND◆ ***NEW!***	1,200	101.00/M
	DO-201AD	3.0	50	200	10.0	1.3	150	FR301DICT-ND◆	.39	3.07	21.03	—	—	—
	DO-201AD	3.0	200	200	10.0	1.3	150	FR303DICT-ND◆	.42	3.27	22.37	—	—	—
4	R-6	6.0	50	300	10.0	1.3	150	FR601DICT-ND◆	.60	5.22	41.23	—	—	—
	R-6	6.0	70	300	10.0	1.2	150	PR6002-TDICT-ND◆ ***NEW!***	.75	6.46	51.00	PR6002-TDITR-ND◆ ***NEW!***	500	170.00
5	TO-220A	8.0	100	300	10.0	1.3	150	FR802-ND◆	1.14	10.14	80.11	—	—	—
6	SMA	1.0	50	30	5.0	1.3	150	RS1A-FDICT-ND◆	.56	4.00	24.00	RS1A-FDITR-ND◆	5,000	72.00/M
	SMA	1.0	100	30	5.0	1.3	150	RS1B-FDICT-ND◆	.56	4.00	24.00	RS1B-FDITR-ND◆	5,000	72.00/M
	SMA	1.0	200	30	5.0	1.3	150	RS1D-FDICT-ND◆	.50	3.96	29.70	RS1D-FDITR-ND◆	5,000	130.50/M
	SMA	1.0	400	30	5.0	1.3	150	RS1G-FDICT-ND◆	.52	4.18	31.35	RS1G-FDITR-ND◆	5,000	137.75/M
	SMA	1.0	600	30	5.0	1.3	250	RS1J-FDICT-ND◆	.56	4.00	24.00	RS1J-FDITR-ND◆	5,000	72.00/M
	SMA	1.0	800	30	5.0	1.3	500	RS1K-FDICT-ND◆	.58	4.13	27.50	RS1K-FDITR-ND◆	5,000	93.50/M
	SMA	1.0	1000	30	5.0	1.3	500	RS1M-FDICT-ND◆	.44	3.42	23.40	RS1M-FDITR-ND◆	5,000	93.00/M
	SMA	1.5	50	50	5.0	1.3	150	RS2AADICT-ND	.47	3.77	28.30	—	—	—
	SMA	1.5	50	50	5.0	1.3	150	RS2AA-FDICT-ND◆	.55	4.40	33.00	RS2AA-FDITR-ND◆	5,000	145.00/M
	SMA	1.5	100	50	5.0	1.3	150	RS2BA-FDICT-ND◆	.58	4.62	34.65	RS2BA-FDITR-ND◆	5,000	152.25/M
	SMA	1.5	200	50	5.0	1.3	150	RS2DA-FDICT-ND◆	.61	4.84	36.30	RS2DA-FDITR-ND◆	5,000	159.50/M
	SMA	1.5	400	50	5.0	1.3	150	RS2GA-FDICT-ND◆	.63	5.06	37.95	RS2GA-FDITR-ND◆	5,000	166.75/M
	SMA	1.5	600	50	5.0	1.3	250	RS2JA-FDICT-ND◆	.66	5.28	39.60	RS2JA-FDITR-ND◆	5,000	174.00/M
	SMA	1.5	800	50	5.0	1.3	500	RS2KA-FDICT-ND◆	.72	5.72	42.90	RS2KA-FDITR-ND◆	5,000	188.50/M
	SMA	1.5	1000	50	5.0	1.3	500	RS2MA-FDICT-ND◆	.50	3.96	29.70	RS2MA-FDITR-ND◆	5,000	130.50/M
	SMB	1.0	50	30	5.0	1.0	150	FR1A-FDICT-ND◆	.50	3.95	27.04	—	—	—
	SMB	1.0	50	30	5.0	1.3	150	RS1AB-FDICT-ND◆	.58	4.56	31.20	RS1AB-FDITR-ND◆	3,000	132.00/M
	SMB	1.0	100	30	5.0	1.0	150	FR1B-FDICT-ND◆	.42	3.40	25.47	—	—	—
	SMB	1.0	100	30	5.0	1.3	150	RS1BB-FDICT-ND◆	.62	4.85	33.15	RS1BB-FDITR-ND◆	3,000	140.25/M
	SMB	1.0	200	30	5.0	1.0	150	FR1D-FDICT-ND◆	.45	3.58	26.88	—	—	—
	SMB	1.0	200	30	5.0	1.3	150	RS1DBDICT-ND	.42	3.40	25.47	—	—	—
	SMB	1.0	200	30	5.0	1.3	150	RS1DB-FDICT-ND◆	.52	3.68	24.50	RS1DB-FDITR-ND◆	3,000	88.20/M
	SMB	1.0	400	30	5.0	1.3	150	RS1GB-FDICT-ND◆	.55	3.90	26.00	RS1GB-FDITR-ND◆	3,000	93.60/M
	SMB	1.0	600	30	5.0	1.0	250	FR1J-FDICT-ND◆	.58	4.26	34.32	—	—	—
	SMB	1.0	600	30	5.0	1.3	250	RS1JB-FDICT-ND◆	.53	3.75	25.00	RS1JB-FDITR-ND◆	3,000	90.00/M
	SMB	1.0	800	30	5.0	1.3	500	RS1KB-FDICT-ND◆	.46	3.59	24.57	RS1KB-FDITR-ND◆	3,000	103.95/M
	SMB	1.0	1000	30	5.0	1.3	500	RS1MB-FDICT-ND◆	.51	3.99	27.30	RS1MB-FDITR-ND◆	3,000	115.50/M
	SMB	1.5	50	50	5.0	1.3	150	RS2A-FDICT-ND◆	.55	4.40	33.00	RS2A-FDITR-ND◆	3,000	155.00/M
	SMB	1.5	100	50	5.0	1.3	150	RS2B-FDICT-ND◆	.58	4.62	34.65	RS2B-FDITR-ND◆	3,000	162.75/M
	SMB	1.5	200	50	5.0	1.3	150	RS2D-FDICT-ND◆	.44	3.42	23.40	RS2D-FDITR-ND◆	3,000	99.00/M
	SMB	1.5	400	50	5.0	1.3	150	RS2G-FDICT-ND◆	.63	5.06	37.95	RS2G-FDITR-ND◆	3,000	178.25/M
	SMB	1.5	600	50	5.0	1.3	250	RS2J-FDICT-ND◆	.54	4.28	29.25	RS2J-FDITR-ND◆	3,000	123.75/M
	SMB	1.5	800	50	5.0	1.3	500	RS2K-FDICT-ND◆	.72	5.72	42.90	RS2K-FDITR-ND◆	3,000	201.50/M
	SMB	1.5	1000	50	5.0	1.3	500	RS2M-FDICT-ND◆	.77	6.16	46.20	RS2M-FDITR-ND◆	3,000	217.00/M
	SMB	3.0	50	100	5.0	1.3	150	RS3AB-FDICT-ND◆	.55	4.40	33.00	RS3AB-FDITR-ND◆	3,000	155.00/M
	SMB	3.0	100	100	5.0	1.3	150	RS3BB-FDICT-ND◆	.97	8.36	66.00	RS3BB-FDITR-ND◆	3,000	319.00/M
	SMB	3.0	200	100	5.0	1.3	150	RS3DB-FDICT-ND◆	1.01	8.74	69.00	RS3DB-FDITR-ND◆	3,000	333.50/M
	SMB	3.0	400	100	5.0	1.3	150	RS3GB-FDICT-ND◆	.55	4.40	33.00	RS3GB-FDITR-ND◆	3,000	155.00/M
	SMB	3.0	600	100	5.0	1.3	250	RS3JB-FDICT-ND◆	1.03	9.18	72.90	RS3JB-FDITR-ND◆	3,000	378.00/M
	SMB	3.0	800	100	5.0	1.3	500	RS3KB-FDICT-ND◆	1.10	9.86	78.30	RS3KB-FDITR-ND◆	3,000	406.00/M
	SMB	3.0	1000	100	5.0	1.3	500	RS3MB-FDICT-ND◆	.77	6.16	46.20	RS3MB-FDITR-ND◆	3,000	217.00/M
	SMC	3.0	50	100	5.0	1.3	150	RS3A-FDICT-ND◆	.61	4.84	36.30	RS3A-FDITR-ND◆	3,000	170.50/M
	SMC	3.0	100	100	5.0	1.3	150	RS3BDICT-ND	.83	7.18	56.69	—	—	—
	SMC	3.0	100	100	5.0	1.3	150	RS3B-FDICT-ND◆	.61	4.84	36.30	RS3B-FDITR-ND◆	3,000	170.50/M
	SMC	3.0	200	100	5.0	1.3	150	RS3D-FDICT-ND◆	1.01	8.74	69.00	RS3D-FDITR-ND◆	3,000	333.50/M
	SMC	3.0	400	100	5.0	1.3	150	RS3G-FDICT-ND◆	1.06	9.12	72.00	RS3G-FDITR-ND◆	3,000	348.00/M
	SMC	3.0	600	100	5.0	1.3	250	RS3J-FDICT-ND◆	.72	5.72	42.90	RS3J-FDITR-ND◆	3,000	201.50/M
	SMC	3.0	800	100	5.0	1.3	500	RS3K-FDICT-ND◆	.77	6.16	46.20	RS3K-FDITR-ND◆	3,000	217.00/M
	SMC	3.0	1000	100	5.0	1.3	500	RS3M-FDICT-ND◆	.66	5.70	45.00	RS3M-FDITR-ND◆	3,000	217.50/M

◆ ***RoHS Compliant***

Fast Schottky Barrier Diodes

Fig.	Peak Rev. Voltage VRRM(V)	Leakage Current	Forward Voltage @ IF		Reverse Recovery Time(nS)	Power Dissipation Ptot(mW)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			VF(V)	IF(mA)				1	10	100		Qty.	Pricing
1	30	5µA	0.37	20	10	400	SD103B-FDICT-ND◆	.45	3.58	26.88	—	—	—
	40	200nA	0.39	1	1	400	SD101CDICT-ND◆	.55	4.40	33.00	SD101CDITR-ND◆	10,000	135.00/M
	50	200nA	0.40	1	1	400	SD101BDICT-ND	.50	3.90	26.71	SD101BDITB-ND‡	10,000	118.00/M
	60	200nA	0.41	1	1	400	SD101ATDICT-ND◆	.55	4.40	33.00	—	—	—
2	20	5µA	0.37	20	10	400	LLSD103CDICT-ND◆	.61	4.84	36.30	LLSD103CDITR-ND◆	2,500	170.50/M
	30	5µA	0.37	20	10	400	LLSD103BDICT-ND◆	.61	4.84	36.30	LLSD103BDITR-ND◆	2,500	170.50/M
	40	5µA	0.37	20	10	400	LLSD103ADICT-ND◆	.61	4.84	36.30	LLSD103ADITR-ND◆	2,500	170.50/M
	40	200nA	0.39	1	1	400	LLSD101CDICT-ND◆	.55	4.40	33.00	LLSD101CDITR-ND◆	2,500	155.00/M
	50	200nA	0.40	1	1	400	LLSD101BDICT-ND◆	.55	4.40	33.00	LLSD101BDITR-ND◆	2,500	155.00/M
	60	200nA	0.41	1	1	400	LLSD101ADICT-ND◆	.55	4.40	33.00	LLSD101ADITR-ND◆	10,000	135.00/M
3	20	100µA	0.31	100	—	200	B0520WS-FDICT-ND◆	.48	3.38	22.50	B0520WS-FDITR-ND◆	3,000	81.00/M
	20	5.0µA	0.37	20	10	200	SD103CWS-FDICT-ND◆	.48	3.38	22.50	SD103CWS-FDITR-ND◆	3,000	81.00/M
	30	80µA	0.36	100	—	235	B0530WS-FDICT-ND◆	.48	3.38	22.50	B0530WS-FDITR-ND◆	3,000	81.00/M
	30	500nA	1	200	5	200	BAT42WS-FDICT-ND◆	.48	3.38	22.50	BAT42WS-FDITR-ND◆	3,000	81.00/M
	30	500nA	0.33	2	5	200	BAT43WS-FDICT-ND◆	.48	3.38	22.50	BAT43WS-FDITR-ND◆	3,000	81.00/M
	30	2.0µA	0.32	1	5	200	BAT54WS-FDICT-ND◆	.42	3.00	18.00	BAT54WS-FDITR-ND◆	3,000	60.00/M
	30	5.0µA	0.37	20	10	200	SD103BWS-FDICT-ND◆	.48	3.38	22.50	SD103BWS-FDITR-ND◆	3,000	81.00/M
	30	1.0µA	0.55	50	—	250	SD107WS-FDICT-ND◆	.48	3.38	22.50	SD107WS-FDITR-ND◆	3,000	81.00/M
	30	100µA	0.36	100	—	200	SDM100K30LDICT-ND◆	.54	4.28	29.25	SDM100K30LDITR-ND◆	3,000	123.75/M
	30	50µA	0.27	10	—	235	BAT760DICT-ND◆	.66	5.28	39.60	BAT760DITR-ND◆	3,000	186.00/M
	40	3µA	0.30	10	—	235	B0540WSDICT-ND◆	.48	3.38	22.50	B0540WSDITR-ND◆	3,000	81.00/M
	40	200nA	0.39	1	1	200	SD101CWS-FDICT-ND◆	.48	3.38	22.50	SD101CWS-FDITR-ND◆	3,000	81.00/M
	40	5.0µA	0.37	20	10	200	SD103AWS-FDICT-ND◆	.48	3.38	22.50	SD103AWS-FDITR-ND◆	3,000	81.00/M
	40	500nA	0.37	1	—	250	SDMK0340LDICT-ND	.57	4.90	38.66	—	—	—
	40	500nA	0.37	1	—	250	SDMK0340L-FDICT-ND◆	.42	3.00	18.00	SDMK0340L-FDITR-ND◆	3,000	60.00/M
	50	200nA	0.40	1	1	200	SD101BWS-FDICT-ND◆	.48	3.38	22.50	SD101BWS-FDITR-ND◆	3,000	81.00/M
	60	200nA	0.41	1	1	200	SD101AWS-FDICT-ND◆	.48	3.38	22.50	SD101AWS-FDITR-ND◆	3,000	81.00/M
	70	200nA	0.41	1	1	200	1N5711WS-FDICT-ND◆	.70	6.08	48.00	1N5711WS-FDITR-ND◆	3,000	232.00/M
4	20	5µA	0.37	20	10	400	SD103CW-FDICT-ND◆	.48	3.38	22.50	SD103CW-FDITR-ND◆	10,000	69.75/M
	20	5µA	0.6	200	10	400	SD103CW-7-FDICT-ND◆ ***NEW!***	.48	3.38	22.50	SD103CW-7-FDITR-ND◆ ***NEW!***	3,000	81.00/M
	30	500nA	1	200	5	200	BAT42W-FDICT-ND◆	.48	3.38	22.50	BAT42W-FDITR-ND◆	3,000	81.00/M
	30	500nA	1	200	5	200	BAT43W-FDICT-ND◆	.48	3.38	22.50	BAT43W-FDITR-ND◆	3,000	81.00/M
	30	5µA	0.6	200	10	400	SD103BW-FDICT-ND◆	.48	3.38	22.50	SD103BW-FDITR-ND◆	10,000	70.00/M
	40	200nA	0.90	15	1	400	SD101CW-FDICT-ND◆	.48	3.38	22.50	SD101CW-FDITR-ND◆	3,000	81.00/M
	40	5µA	0.6	200	10	—	SD103AW-FDICT-ND◆	.48	3.38	22.50	SD103AW-FDITR-ND◆	10,000	70.00/M
	40	5µA	0.37	20	10	400	SD103AW7-FDICT-ND◆	.48	3.38	22.50	SD103AW7-FDITR-ND◆	3,000	81.00/M
	60	200nA	1	15	1	400	1N6263W-FDICT-ND◆	.53	3.75	25.00	1N6263W-FDITR-ND◆	3,000	90.00/M
	60	200nA	1	15	1	400	SD101AW-7FDICT-ND◆	.48	3.38	22.50	SD101AW-7FDITR-ND◆	3,000	81.00/M
	70	200nA	0.041	1	1	333	1N5711W-FDICT-ND◆	.48	3.38	22.50	1N5711W-FDITR-ND◆	3,000	81.00/M
	100	—	0.45	10	—	200	BAT46W-7-FDICT-ND◆ ***NEW!***	.48	3.38	22.50	BAT46W-7-FDITR-ND◆ ***NEW!***	3,000	81.00/M
5	30	150µA	0.35	20	—	150	SDM20U30DICT-ND◆	.56	4.00	24.00	SDM20U30DITR-ND◆	3,000	80.00/M
	30	2.0µA	1	100	5	250	BAT54LPDICT-ND◆	.51	3.60	24.00	BAT54LPDITR-ND◆	3,000	86.40/M
	40	500nA	0.37	1	—	150	SDM03U40DICT-ND◆	.56	4.00	24.00	SDM03U40DITR-ND◆	3,000	80.00/M
6	30	2.0µA	0.65	100	5	250	BAT54LPS-7DICT-ND◆ ***NEW!***	.66	5.28	39.60	BAT54LPS-7DITR-ND◆ ***NEW!***	3,000	186.00/M
	30	150µA	0.575	200	—	250	SDM20U30LPDICT-ND◆	.50	3.96	29.70	SDM20U30LPDITR-ND◆	3,000	139.50/M
	40	200nA	1	40	5	250	BAS40LPDICT-ND◆	.55	4.40	33.00	BAS40LPDITR-ND◆	3,000	155.00/M
	45	1.0µA	0.8	100	—	250	SDM10U45LPDICT-ND◆	.54	4.28	29.25	SDM10U45LPDITR-ND◆	3,000	123.75/M
7	20	30µA	0.42	2,000	—	—	PD3S220LDICT-ND◆ ***NEW!***	.61	4.84	36.30	PD3S220LDITR-ND◆ ***NEW!***	3,000	171.00/M
	30	0.7µA	0.60	2,000	—	—	PD3S230HDICT-ND◆ ***NEW!***	.63	5.06	37.95	PD3S230HDITR-ND◆ ***NEW!***	3,000	178.00/M
	30	2.0µA	0.8	100	5	—	PD3S0230DICT-ND◆	.55	4.40	33.00	PD3S0230DITR-ND◆	3,000	155.00/M
	30	40µA	0.37	2,000	—	—	PD3S230LDICT-ND◆ ***NEW!***	.61	4.84	36.30	PD3S230LDITR-ND◆ ***NEW!***	3,000	171.00/M
	80	25nA	0.715	1	4	—	PD3SD2580DICT-ND◆	.48	3.38	22.50	PD3SD2580DITR-ND◆	3,000	81.00/M
8	20	1.0mA	0.36	1,000	—	556	DFLS120LDICT-ND◆ ***NEW!***	.55	4.40	33.00	DFLS120LDITR-ND◆ ***NEW!***	3,000	155.00/M
	40	20µA	0.7	2,000	—	—	DFLS240-7DICT-ND◆ ***NEW!***	.75	6.46	51.00	DFLS240-7DITR-ND◆ ***NEW!***	3,000	247.00/M
9	45	—	0.48	9,000	—	—	SD945-TDICT-ND◆ ***NEW!***	1.86	16.66	132.30	SD945-TDITR-ND◆ ***NEW!***	1,200	735.00/M
10	40	1µA	0.37	1	—	150	SDMP0340LAT-FDICT-ND◆ ***NEW!***	.56	4.00	24.00	SDMP0340LAT-FDITR-ND◆ ***NEW!***	3,000	80.00/M

‡ Tape and Box ◆ ***RoHS Compliant***

Fig. 1 — DO-35

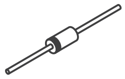

Fig. 2 — MiniMELF

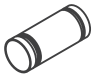

Fig. 3 — SOD-323

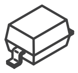

Fig. 4 — SOD-123

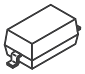

Fig. 5 — SOD-523

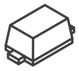

Fig. 6 — DFN1006-2

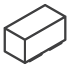

Fig. 7 — *PowerDI®323*

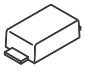

Fig. 8 — *PowerDI™123 NEW!*

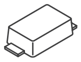

Fig. 9 — DO-201AD *NEW!*

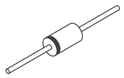

Fig. 10 — SOT-523 *NEW!*

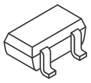

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Speed Switching Diodes

Dimensions in mm

Fig. 1 — SOT-23, SOT-323, SOT-523

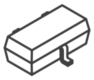

Fig. 2 — SOT-563

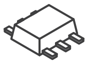

Fig. 3 — SOT-363

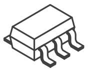

Fig. 4 — DO-35

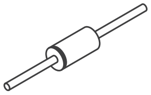

Fig. 5 — MiniMELF

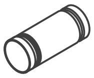

Fig. 6 — SOD-123, SOD-323

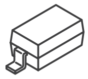

Fig. 7 — SOD-523

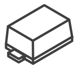

Fig. 8 — DFN1006-2

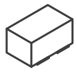

Fig.	Peak Reverse Voltage VRWM (V)	Max. Rev. Current IR (µA)	VR (V)	Max. Forward Voltage@ VF (V)	IF (mA)	Max. Rev. Recovery Time Trr (nS)	Power Dissi-pation Pd (mW)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
SOT-23																	
1	75	2.5	75	1.0	50	4.0	350	A	—	K	BAL99DICT-ND	.48	3.41	20.47	—	—	—
	75	2.5	75	1.0	50	4.0	350	A	—	K	BAL99-FDICT-ND◆	.42	2.76	12.00	BAL99-FDITR-ND◆	3,000	32.40/M
	75	1.0	75	0.855	10	4.0	350	K	A	—	BAS16-FDICT-ND◆	.30	1.98	8.60	BAS16-FDITR-ND◆	3,000	23.22/M
	100	0.1	100	1.0	100	50	250	K	A	—	BAS19-FDICT-ND◆	.49	3.22	14.00	BAS19-FDITR-ND◆	3,000	37.80/M
	150	0.1	150	1.0	100	50	250	K	A	—	BAS20-FDICT-ND◆	.46	2.99	13.00	BAS20-FDITR-ND◆	3,000	35.10/M
	200	0.1	200	1.0	100	50	250	K	A	—	BAS21-FDICT-ND◆	.42	2.76	12.00	BAS21-FDITR-ND◆	3,000	32.40/M
	85	0.005	75	1.0	10	3.0§	250	K	A	—	BAS116-FDICT-ND◆	.38	2.55	12.00	BAS116-FDITR-ND◆	3,000	35.25/M
	200	0.1	250	1.0	100	50	350	A	K	K	BAV23A-FDICT-ND◆	.68	4.59	21.60	BAV23A-FDITR-ND◆	3,000	63.45/M
	200	0.1	250	1.0	100	50	350	K/K	A	A	BAV23C-FDICT-ND◆	.68	4.59	21.60	BAV23C-FDITR-ND◆	3,000	63.45/M
	200	0.1	200	1.0	100	50	350	—	A	K	BAV23S-FDICT-ND◆	.53	3.75	25.00	BAV23S-FDITR-ND◆	3,000	90.00/M
	75	2.5	75	0.855	10	4.0	350	K	A	A	BAV70-FDICT-ND◆	.35	2.30	10.00	BAV70-FDITR-ND◆	3,000	27.00/M
	75	2.5	70	0.855	10	6.0	350	K/A	A	K	BAV99-FDICT-ND◆	.35	2.30	10.00	BAV99-FDITR-ND◆	3,000	27.00/M
	85	0.005	75	1.0	10	3.0§	250	K/K	A	A	BAV170-FDICT-ND◆	.53	3.75	25.00	BAV170-FDITR-ND◆	3,000	90.00/M
	85	0.005	75	1.0	10	3.0§	250	K/A	A	K	BAV199-FDICT-ND◆	.50	3.40	16.00	BAV199-FDITR-ND◆	3,000	47.00/M
	75	2.5	75	0.855	10	4.0	350	A	K	K	BAW56-FDICT-ND◆	.39	2.53	11.00	BAW56-FDITR-ND◆	3,000	29.70/M
	85	0.005	75	1.1	50	3.0§	250	A	K	K	BAW156-7-FDICT-ND◆ ***NEW!***	.38	2.55	12.00	BAW156-7-FDITR-ND◆ ***NEW!***	3,000	35.00/M
	75	1.0	75	1.0	50	4.0	350	K	A	—	MMBD914-FDICT-ND◆	.32	2.07	9.00	MMBD914-FDITR-ND◆	3,000	24.30/M
	240	0.1	240	1.0	100	50	350	K/A	K	A	MMBD2004S-7-FDICT-ND◆ ***NEW!***	.50	3.60	21.60	MMBD2004S-7-FDITR-ND◆ ***NEW!***	3,000	72.00/M
	300	0.1	240	1.25	200	50	350	A	K	K	MMBD3004A-7-FDICT-ND◆ ***NEW!***	.48	3.38	22.50	MMBD3004A-7-FDITR-ND◆ ***NEW!***	3,000	81.00/M
	300	0.1	240	1.25	200	50	350	K	A	C	MMBD3004C-7-FDICT-ND◆ ***NEW!***	.48	3.38	22.50	MMBD3004C-7-FDITR-ND◆ ***NEW!***	3,000	81.00/M
	300	0.1	240	1.0	100	50	350	K/A	A	K	MMBD3004S-FDICT-ND◆	.48	3.38	22.50	MMBD3004S-FDITR-ND◆	3,000	81.00/M
	75	1.0	75	1.0	50	4.0	350	K	A	—	MMBD4148-FDICT-ND◆	.42	2.76	12.00	MMBD4148-FDITR-ND◆	3,000	32.40/M
	75	2.5	75	1.0	100	4.0	350	K	A	—	MMBD4448-FDICT-ND◆	.46	2.99	13.00	MMBD4448-FDITR-ND◆	3,000	35.10/M
	80	0.1	70	1.0	100	4.0	350	K	A	—	MMBD4448HDICT-ND	.36	2.56	15.35	—	—	—
	80	0.1	70	1.0	100	4.0	350	K	A	—	MMBD4448H-FDICT-ND◆	.38	2.55	12.00	MMBD4448H-FDITR-ND◆	3,000	35.25/M
	75	3.0	100	1.25	150	4.0	350	K/A	A	K	MMBD7000-FDICT-ND◆	.46	2.99	13.00	MMBD7000-FDITR-ND◆	3,000	35.10/M
	100	1.0	50	1.25	150	4.0	350	K/A	A	K	MMBD7000HC-7-FDICT-ND◆ ***NEW!***	.40	2.72	12.80	MMBD7000HC-7-FDITR-ND◆ ***NEW!***	3,000	38.00/M
	100	1.0	50	1.25	150	4.0	350	K/A	A	K	MMBD7000HS-7-FDICT-ND◆ ***NEW!***	.40	2.72	12.80	MMBD7000HS-7-FDITR-ND◆ ***NEW!***	3,000	38.00/M
SOT-323																	
1	75	1.0	75	0.855	10	4.0	200	K	A	—	BAS16WDICT-ND	.43	3.07	18.42	—	—	—
	75	1.0	75	0.855	10	4.0	200	K	A	—	BAS16W-FDICT-ND◆	.38	2.55	12.00	BAS16W-FDITR-ND◆	3,000	35.25/M
	100	0.1	100	1.0	100	50	200	K	A	—	BAS19WDICT-ND	.49	3.46	23.07	—	—	—
	100	0.1	100	1.0	100	50	200	K	A	—	BAS19W-FDICT-ND◆	.58	3.91	18.40	BAS19W-FDITR-ND◆	3,000	52.88/M
	150	0.1	150	1.0	100	50	200	K	A	—	BAS20WDICT-ND	.49	3.46	23.07	—	—	—
	150	0.1	150	1.0	100	50	200	K	A	—	BAS20W-FDICT-ND◆	.56	3.83	18.00	BAS20W-FDITR-ND◆	3,000	52.88/M
	200	0.1	200	1.0	100	50	200	K	A	—	BAS21WDICT-ND	.49	3.46	23.07	—	—	—
	200	0.1	200	1.0	100	50	200	K	A	—	BAS21W-FDICT-ND◆	.50	3.40	16.00	BAS21W-FDITR-ND◆	3,000	47.00/M
	75	2.5	75	0.855	10	4.0	200	K	A	A	BAV70W-FDICT-ND◆	.38	2.55	12.00	BAV70W-FDITR-ND◆	3,000	35.25/M
	75	2.5	75	0.855	10	4.0	200	K/A	A	K	BAV99W-FDICT-ND◆	.49	3.22	14.00	BAV99W-FDITR-ND◆	3,000	37.80/M
	85	0.005	75	1.0	10	3.0§	200	A	K/A	K	BAV199WDICT-ND◆	.50	3.40	16.00	BAV199WDITR-ND◆	3,000	47.00/M
	300	0.1	240	1.25	200	50	200	K	A	—	BAV3004WS-7DICT-ND◆ ***NEW!***	.53	3.75	25.00	BAV3004WS-7DITR-ND◆ ***NEW!***	3,000	90.00/M
	75	2.5	75	0.855	10	4.0	200	A	K	K	BAW56W-FDICT-ND◆	.57	4.05	27.00	BAW56W-FDITR-ND◆	3,000	97.20/M
	75	1.0	75	1.0	100	4.0	200	K	A	—	MMBD4148W-FDICT-ND◆	.50	3.40	16.00	MMBD4148W-FDITR-ND◆	3,000	47.00/M
	80	0.1	70	1.0	100	4.0	200	K	A	—	MMBD4448HWDICT-ND	.53	3.75	22.52	—	—	—
	80	0.1	70	1.0	100	4.0	200	K	A	—	MMBD4448HW-FDICT-ND◆	.38	2.55	12.00	MMBD4448HW-FDITR-ND◆	3,000	35.25/M
	75	1.0	75	1.0	100	4.0	200	K	A	—	MMBD4448WDICT-ND	.53	3.75	22.52	—	—	—
	75	1.0	75	1.0	100	4.0	200	K	A	—	MMBD4448W-FDICT-ND◆	.38	2.55	12.00	MMBD4448W-FDITR-ND◆	3,000	35.25/M
SOT-523																	
1	85	2.0	75	1.0	50	4.0	150	K/A	A	A	BAV70T-FDICT-ND◆	.63	4.25	20.00	BAV70T-FDITR-ND◆	3,000	58.75/M
	85	2.0	75	1.0	50	4.0	150	A/K	A	K	BAV99T-FDICT-ND◆	.63	4.25	20.00	BAV99T-FDITR-ND◆	3,000	58.75/M
	85	0.005	75	1.0	10	3.0§	150	K	A	A	BAV170T-FDICT-ND◆	.42	3.00	18.00	BAV170T-FDITR-ND◆	3,000	60.00/M
	85	0.005	75	1.0	10	3.0§	150	A/K	A	K	BAV199T-FDICT-ND◆	.42	3.00	18.00	BAV199T-FDITR-ND◆	3,000	60.00/M
	85	2.0	75	1.0	50	4.0	150	A	K	K	BAW56T-FDICT-ND◆	.42	3.00	18.00	BAW56T-FDITR-ND◆	3,000	60.00/M
	85	0.005	75	1.0	10	3.0§	150	A	K	K	BAW156T-FDICT-ND◆	.60	4.08	19.20	BAW156T-FDITR-ND◆	3,000	56.40/M
	80	0.1	70	1.0	100	4.0	150	A	K	K	MMBD4448HTADICT-ND◆	.42	2.99	17.91	—	—	—
	80	0.1	70	1.0	100	4.0	150	A	K	K	MMBD4448HTA-FDICT-ND◆	.63	4.25	20.00	MMBD4448HTA-FDITR-ND◆	3,000	58.75/M
	200	0.1	200	1.0	100	50	150	K	A	—	BAS21T-FDICT-ND◆	.50	3.60	21.60	BAS21T-FDITR-ND◆	3,000	72.00/M
	85	2	75	1.25	150	4.0	150	K	—	A	BAS16T-7-FDICT-ND◆ ***NEW!***	.56	4.00	24.00	BAS16T-7-FDITR-ND◆ ***NEW!***	3,000	80.00/M
	85	0.005	75	1.0	10	3.0§	150	K	A	—	BAS116T-FDICT-ND◆	.60	4.08	19.20	BAS116T-FDITR-ND◆	3,000	56.40/M
	80	0.1	70	1.25	150	4.0	150	K	A	A	MMBD4448HTC-7-FDICT-ND◆ ***NEW!***	.63	4.25	20.00	MMBD4448HTC-7-FDITR-ND◆ ***NEW!***	3,000	59.00/M
	80	0.1	70	1.0	100	4.0	150	K	A	—	MMBD4448HTDICT-ND	.42	2.99	17.91	—	—	—
	80	0.1	70	1.0	100	4.0	150	K	A	—	MMBD4448HT-FDICT-ND◆	.50	3.40	16.00	MMBD4448HT-FDITR-ND◆	3,000	47.00/M
	80	0.1	70	1.25	150	4.0	150	K/A	K	A	MMBD4448HTS-7-FDICT-ND◆ ***NEW!***	.63	4.25	20.00	MMBD4448HTS-7-FDITR-ND◆ ***NEW!***	3,000	59.00/M
SOT-563 — RoHS Compliant																	
2	80	50	75	0.855	10	4.0	150	—	—	—	MMBD4448VDICT-ND	.48	3.41	20.47	—	—	—
	75	50	75	0.855	10	4.0	150	—	—	—	BAS16VDICT-ND	.50	3.60	21.60	BAS16VDITR-ND	3,000	72.00/M
SOT-363 — RoHS Compliant																	
3	150	15	—	1.25	200	50	200	—	—	—	BAS20DWDICT-ND	.48	3.38	22.50	BAS20DWDITR-ND	3,000	81.00/M
	200	15	—	1.25	200	50	200	—	—	—	BAS21DWDICT-ND	.44	3.42	23.40	BAS21DWDITR-ND	3,000	99.00/M
	75	2.5	75	1.0	50	4.0	200	—	—	—	MMBD4448DW-FDICT-ND†	.49	3.50	21.00	MMBD4448DW-FDITR-ND†	3,000	70.00/M
DO-35 — RoHS Compliant																	
4	75	5.0	75	1.0	10	4.0	500	—	—	—	1N4148DICT-ND	.26	1.73	7.50	1N4148DITR-ND	10,000	15.00/M
MiniMELF — RoHS Compliant																	
5	75	5.0	75	1.0	10	4.0	500	—	—	—	LL4148DICT-ND	.50	3.40	16.00	LL4148DITR-ND	10,000	34.00/M
	75	5.0	75	1.0	100	4.0	500	—	—	—	LL4448DICT-ND	.50	3.40	16.00	LL4448DITR-ND	2,500	47.00/M

† Dual Isolated Single   § Reverse Recovery Time @ µs   ◆ ***RoHS Compliant***

(Continued)

DIODES High Speed Switching Diodes *(Cont.)*

Fig.	Peak Reverse Voltage	Max. Rev. Current		Max. Forward Voltage@		Max. Rev. Recovery Time	Power Dissi-pation	Pinning			Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel	
	VRWM (V)	IR (µA)	VR (V)	VF (V)	IF (mA)	Trr (nS)	Pd (mW)	1	2	3	Part No.	1	10	100	Part No.	Qty.	Pricing
SOD-123 — RoHS Compliant																	
6	100	1.0	75	0.855	10	4.0	400	—	—	—	1N4148W-FDICT-ND	.46	2.99	13.00	1N4148W-FDITR-ND	3,000	35.10/M
	100	1.0	75	1.25	150	4.0	400	—	—	—	1N4148W-13-FDICT-ND ***NEW!***	.56	4.00	24.00	1N4148W-13-FDITR-ND ***NEW!***	10,000	64.00/M
	75	2.5	75	0.855	10	4.0	400	—	—	—	1N4448W-FDICT-ND	.38	2.55	12.00	1N4448W-FDITR-ND	3,000	35.25/M
	100	1.0	75	1.0	50	4.0	400	—	—	—	BAV16W-FDICT-ND	.46	2.99	13.00	BAV16W-FDITR-ND	3,000	35.10/M
	100	0.1	100	1.0	100	50	250	—	—	—	BAV19W-FDICT-ND	.50	3.40	16.00	BAV19W-FDITR-ND	3,000	47.00/M
	150	0.1	150	1.0	100	50	250	—	—	—	BAV20W-FDICT-ND	.50	3.40	16.00	BAV20W-FDITR-ND	3,000	47.00/M
	200	0.1	200	1.0	100	50	250	—	—	—	BAV21W-FDICT-ND	.50	3.40	16.00	BAV21W-FDITR-ND	3,000	47.00/M
	130	0.005	75	1.0	10	3.0§	250	—	—	—	BAV116W-FDICT-ND	.50	3.40	16.00	BAV116W-FDITR-ND	3,000	47.00/M
	300	100	240	1.0	100	50	400	—	—	—	BAV3004W-FDICT-ND	.42	3.00	18.00	BAV3004W-FDITR-ND	3,000	60.00/M
SOD-323 — RoHS Compliant																	
6	80	0.1	80	0.855	10	4.0	200	—	—	—	1N4448HWS-FDICT-ND	.42	3.00	18.00	1N4448HWS-FDITR-ND	3,000	60.00/M
	75	1.0	75	0.855	10	4.0	200	—	—	—	1N4148WS-FDICT-ND	.49	3.22	14.00	1N4148WS-FDITR-ND	3,000	37.80/M
	75	2.5	75	1.0	100	4.0	200	—	—	—	1N4448WS-FDICT-ND	.40	2.72	12.80	1N4448WS-FDITR-ND	3,000	37.60/M
	75	1.0	75	1.0	50	4.0	200	—	—	—	BAV16WS-FDICT-ND	.49	3.22	14.00	BAV16WS-FDITR-ND	3,000	37.80/M
	100	0.1	100	1.0	100	50	200	—	—	—	BAV19WS-FDICT-ND	.50	3.40	16.00	BAV19WS-FDITR-ND	3,000	47.00/M
	150	0.1	150	1.0	100	50	200	—	—	—	BAV20WS-FDICT-ND	.50	3.40	16.00	BAV20WS-FDITR-ND	3,000	47.00/M
	200	0.1	200	1.0	100	50	200	—	—	—	BAV21WS-FDICT-ND	.50	3.40	16.00	BAV21WS-FDITR-ND	3,000	47.00/M
SOD-523 — RoHS Compliant																	
7	80	0.1	80	1.0	100	4.0	150	—	—	—	1N4448HWTDICT-ND	.60	4.08	19.20	1N4448HWTDITR-ND	3,000	56.40/M
	100	1.0	75	1.0	50	4.0	150	—	—	—	1N4148WTDICT-ND	.60	4.08	19.20	1N4148WTDITR-ND	3,000	56.40/M
DFN1006-2 — RoHS Compliant																	
8	80	100	80	1.0	100	4.0	250	—	—	—	1N4448HLPDICT-ND	.44	3.42	23.40	1N4448HLPDITR-ND	3,000	99.00/M
	75	1.0	75	1.0	50	4.0	250	—	—	—	BAS16LPDICT-ND	.44	3.42	23.40	BAS16LPDITR-ND	3,000	99.00/M

† Dual Isolated Single   § Reverse Recovery Time @ µs   ◆ ***RoHS Compliant***

Ultra Fast Switching Rectifiers

Fig. 1 — DO-41

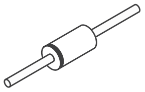

Fig. 2 — SMA, SMB, SMC

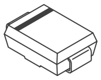

Fig. 3 — DO-15 *NEW!*

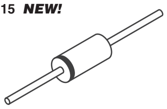

Fig. 4 — *PowerDI™123 NEW!*

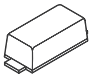

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @ 25°C (µA)	Maximum Peak Forward Voltage (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
DO-41													
1	1.0	50	30	5.0	1.0	50	UF1001DICT-ND	.57	4.10	24.60	UF1001DITR-ND	5,000	73.80/M
	1.0	100	30	5.0	1.0	50	UF1002DICT-ND	.49	3.45	23.00	UF1002DITR-ND	5,000	78.20/M
	1.0	200	30	5.0	1.0	50	UF1003DICT-ND	.54	3.83	25.50	UF1003DITR-ND	5,000	86.70/M
	1.0	200	35	2.0	0.875	25	MUR120-TDICT-ND ***NEW!***	.61	4.84	36.30	MUR120-TDITR-ND ***NEW!***	5,000	160.00/M
	1.0	400	30	5.0	1.3	50	UF1004DICT-ND	.63	4.43	29.50	UF1004DITR-ND	5,000	100.30/M
	1.0	600	30	5.0	1.7	75	UF1005DICT-ND	.49	3.88	26.52	UF1005DITR-ND	5,000	105.40/M
	1.0	600	35	5.0	1.25	75	MUR160-TDICT-ND ***NEW!***	.66	5.28	39.60	MUR160-TDITR-ND ***NEW!***	5,000	174.00/M
	1.0	800	30	5.0	1.7	75	UF1006DICT-ND	.58	4.56	31.20	UF1006DITR-ND	5,000	124.00/M
	1.0	1,000	30	5.0	1.7	75	UF1007DICT-ND	.52	4.18	31.35	UF1007DITR-ND	5,000	137.75/M
SMA													
2	1.0	50	30	5.0	0.9	25	ES1A-FDICT-ND	.58	4.13	27.50	ES1A-FDITR-ND	5,000	93.50/M
	1.0	100	30	5.0	0.9	25	ES1B-FDICT-ND	.58	4.13	27.50	ES1B-FDITR-ND	5,000	93.50/M
	1.0	150	30	5.0	0.92	20	ES1C-FDICT-ND	.80	6.38	47.85	ES1C-FDITR-ND	5,000	210.25/M
	1.0	200	30	5.0	0.9	25	ES1D-FDICT-ND	.58	4.13	27.50	ES1D-FDITR-ND	5,000	93.50/M
	1.0	400	30	5.0	1.25	35	ES1G-FDICT-ND	.54	4.28	29.25	ES1G-FDITR-ND	5,000	116.00/M
	1.0	50	30	5.0	1.0	50	US1A-FDICT-ND	.53	3.75	25.00	US1A-FDITR-ND	5,000	85.00/M
	1.0	100	30	5.0	1.0	50	US1B-FDICT-ND	.53	3.75	25.00	US1B-FDITR-ND	5,000	85.00/M
	1.0	200	30	5.0	1.0	50	US1D-FDICT-ND	.72	5.72	42.90	US1D-FDITR-ND	5,000	188.50/M
	1.0	400	30	5.0	1.3	50	US1G-FDICT-ND	.58	4.13	27.50	US1G-FDITR-ND	5,000	93.50/M
	1.0	600	30	5.0	1.7	75	US1J-FDICT-ND	.58	4.13	27.50	US1J-FDITR-ND	5,000	93.50/M
	1.0	800	30	5.0	1.7	75	US1K-FDICT-ND	.51	3.99	27.30	US1K-FDITR-ND	5,000	108.50/M
	1.0	1,000	30	5.0	1.7	75	US1M-FDICT-ND	.51	3.99	27.30	US1M-FDITR-ND	5,000	108.50/M
	2.0	50	50	5.0	0.92	25	ES2AA-FDICT-ND	.58	4.56	31.20	ES2AA-FDITR-ND	5,000	124.00/M
	2.0	100	50	5.0	0.92	25	ES2BA-FDICT-ND	.58	4.56	31.20	ES2BA-FDITR-ND	5,000	124.00/M
	2.0	150	50	5.0	0.92	25	ES2CA-FDICT-ND	.79	6.84	54.00	ES2CA-FDITR-ND	5,000	243.00/M
	2.0	200	50	5.0	0.92	25	ES2DA-FDICT-ND	.58	4.56	31.20	ES2DA-FDITR-ND	5,000	124.00/M
SMB													
2	1.0	200	40	2.0	0.875	25	MURS120-FDICT-ND	.58	4.13	27.50	MURS120-FDITR-ND	3,000	99.00/M
	1.0	400	35	5.0	1.25	50	MURS140-FDICT-ND	.64	4.50	30.00	MURS140-FDITR-ND	3,000	108.00/M
	1.0	600	35	5.0	1.25	50	MURS160-FDICT-ND	.47	3.71	25.35	MURS160-FDITR-ND	3,000	107.25/M
	2.0	50	50	5.0	0.92	25	ES2A-FDICT-ND	.70	6.08	48.00	ES2A-FDITR-ND	3,000	232.00/M
	2.0	100	50	5.0	0.9	25	ES2B-FDICT-ND	.58	4.56	31.20	ES2B-FDITR-ND	3,000	132.00/M
	2.0	150	50	5.0	0.9	25	ES2C-FDICT-ND	.79	6.84	54.00	ES2C-FDITR-ND	3,000	261.00/M
	2.0	200	50	5.0	0.9	25	ES2D-FDICT-ND	.84	7.22	57.00	ES2D-FDITR-ND	3,000	275.50/M
	2.0	400	50	5.0	1.25	35	ES2G-FDICT-ND	.88	7.60	60.00	ES2G-FDITR-ND	3,000	290.00/M
	3.0	50	100	10	0.9	25	ES3AB-FDICT-ND	.77	6.16	46.20	ES3AB-FDITR-ND	3,000	217.00/M
	3.0	100	100	10	0.9	25	ES3BB-FDICT-ND	.77	6.16	46.20	ES3BB-FDITR-ND	3,000	217.00/M
	3.0	150	100	10	0.9	25	ES3CB-FDICT-ND	.77	6.16	46.20	ES3CB-FDITR-ND	3,000	217.00/M
	3.0	200	100	10	0.9	25	ES3DB-FDICT-ND	.77	6.16	46.20	ES3DB-FDITR-ND	3,000	217.00/M
SMC													
2	3.0	50	100	10	0.9	25	ES3A-FDICT-ND	.77	6.16	46.20	ES3A-FDITR-ND	3,000	217.00/M
	3.0	100	100	10	0.9	25	ES3B-FDICT-ND	.97	8.67	68.85	ES3B-FDITR-ND	3,000	357.00/M
	3.0	150	100	10	0.9	25	ES3C-FDICT-ND	1.03	9.18	72.90	ES3C-FDITR-ND	3,000	378.00/M
	3.0	200	100	10	0.9	25	ES3D-FDICT-ND	.77	6.16	46.20	ES3D-FDITR-ND	3,000	217.00/M
NEW! DO-15 NEW!													
3	2.0	400	60	5.0	1.3	50	UF2004-TDICT-ND	.61	4.84	36.30	UF2004-TDITR-ND	4,000	171.00/M
	2.0	1,000	60	5.0	1.7	75	UF2007-TDICT-ND	.66	5.28	39.60	UF2007-TDITR-ND	4,000	186.00/M
NEW! PowerDI™123 NEW!													
4	1.0	200	30	5.0	0.98	25	DFLU1200-7DICT-ND	.58	4.56	31.20	DFLU1200-7DITR-ND	3,000	132.00/M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Schottky Barrier Double Diodes

(Top View Shown on all drawings)

Fig. 1

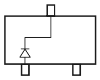

Fig. 2

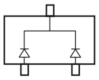

Fig. 3

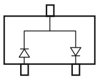

Fig. 4

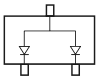

Fig. 5

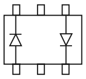

Fig.	Repetitive Peak Reverse Voltage VRRM	Forward Continuous Current IF	Maximum Forward Voltage@IF VF(V)	IF(mA)	Leakage Current	Reverse Recovery Time (nS)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Pricing 3,000
1	30V	200mA	0.8	100	2.0µA	5.0	SOT-23	BAT54-FDICT-ND◆	.39	2.64	12.40	36.43/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-FDICT-ND◆	.60	4.08	19.20	56.40/M
	40V	500mA	0.55	500	50µA	—	SOT-23	BAT400D-FDICT-ND◆	.55	4.40	33.00	155.00/M
	40V	750mA	0.31	100	100µA	10	SOT-23	BAT750-FDICT-ND◆	.55	4.40	33.00	155.00/M
	70V	70mA	1.0	15	100nA	5.0	SOT-23	BAS70-FDICT-ND◆	.42	3.00	18.00	60.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54W-FDICT-ND◆	.50	3.40	16.00	47.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-FDICT-ND◆	.50	3.60	21.60	72.00/M
	70V	70mA	1.0	15	100nA	5.0	SOT-323	BAS70WDICT-ND	.83	7.18	56.69	—
	70V	70mA	1.0	15	100nA	5.0	SOT-323	BAS70W-FDICT-ND◆	.56	4.00	24.00	80.00/M
	40V	30mA	0.37	1.0	150nA	—	SOT-323	SDMG0340L-FDICT-ND◆	.50	3.60	21.60	72.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54TDICT-ND	.47	3.77	28.30	—
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54T-FDICT-ND◆	.49	3.50	21.00	70.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LTDICT-ND	.68	5.88	46.39	—
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LT-FDICT-ND◆	.53	3.75	25.00	90.00/M
	40V	200mA	0.38	1.0	200nA	5.0	SOT-523	BAS40T-FDICT-ND◆	.56	4.00	24.00	80.00/M
	45V	100mA	0.45	10	1µA	—	SOT-523	SDM10P45-FDICT-ND◆	.51	3.60	24.00	86.40/M
2	30V	200mA	1.0	100	2.0µA	5.0	SOT-23	BAT54C-FDICT-ND◆	.38	2.55	12.00	35.25/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-05-FDICT-ND◆	.42	3.00	18.00	60.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54CW-FDICT-ND◆	.42	3.00	18.00	60.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-05-FDICT-ND◆	.53	3.75	25.00	—
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LC-FDICT-ND◆	.50	3.60	21.60	72.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-05-FDICT-ND◆	.48	3.38	22.50	81.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54CT-FDICT-ND◆	.56	4.00	24.00	80.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-05T-FDICT-ND◆	.55	4.40	33.00	155.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LCTDICT-ND◆	.68	5.88	46.39	—
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LCT-FDICT-ND◆	.56	4.00	24.00	80.00/M
3	20V	400mA	0.31	100	100µA	—	SOT-23	SDM40E20LS-FDICT-ND◆	.50	3.96	29.70	139.50/M
	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54S-FDICT-ND◆	.45	3.06	14.40	42.30/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-04-FDICT-ND◆	.42	3.00	18.00	60.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-04-FDICT-ND◆	.42	3.00	18.00	60.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54SW-FDICT-ND◆	.63	4.25	20.00	58.75/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-04-FDICT-ND◆	.53	3.75	25.00	90.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LS-FDICT-ND◆	.50	3.60	21.60	72.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-04-FDICT-ND◆	.97	8.36	66.00	319.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-04T-FDICT-ND◆	.55	4.40	33.00	155.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-523	SDMP0340LSTDICT-ND	.64	5.09	38.20	—
	30V	200mA	0.32	1.0	2µA	5.0	SOT-523	BAT54ST-FDICT-ND◆	.56	4.00	24.00	80.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-523	SDMP0340LST-FDICT-ND◆	.53	3.75	25.00	90.00/M
4	30V	200mA	0.8	100	2µA	5.0	SOT-23	BAT54A-FDICT-ND◆	.45	3.06	14.40	42.30/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-06-FDICT-ND◆	.42	3.00	18.00	60.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-23	BAS70-06-FDICT-ND◆	.50	3.96	29.70	140.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AWDICT-ND	.68	5.88	46.39	—
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AW-FDICT-ND◆	.42	3.00	18.00	60.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06DICT-ND	.76	6.53	51.54	—
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06-FDICT-ND◆	.53	3.75	25.00	90.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LA-FDICT-ND◆	.50	3.60	21.60	72.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-06-FDICT-ND◆	.48	3.38	22.50	81.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54AT-FDICT-ND◆	.56	4.00	24.00	80.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-06T-FDICT-ND◆	.56	4.00	24.00	80.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-523	SDMP0340LATDICT-ND	.68	5.88	46.39	—
	40V	200mA	0.37	1.0	1µA	—	SOT-523	SDMP0340LAT-FDICT-ND	.56	4.00	24.00	80.00/M
5	30V	200mA	1.0	100	2µA	5.0	SOT-363	BAT54DW-FDICT-ND	.50	3.90	26.71	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Schottky Barrier Diode Arrays SOT-363/SOT-26 (200mW)

Fig. 1

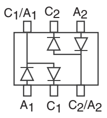

Fig. 2

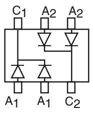

Fig. 3

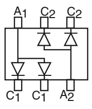

Fig. 4

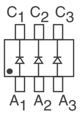

Fig. 5

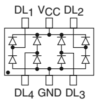

Fig. 6

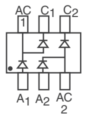

Fig. 7

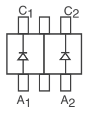

Fig. 8

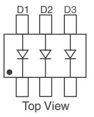

Fig.	Peak Voltage VRRM (V)	Leakage Current	Forward Voltage @IF VF(V)	IF(mA)	Reverse Recovery Time (nS)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	40	200nA	0.38	1.0	5.0	SOT-363	BAS40DW-04-FDICT-ND◆	.74	5.94	44.55	BAS40DW-04-FDITR-ND◆	209.25/M
	40	—	0.37	20	10.0	SOT-26	SD103ASDM-FDICT-ND†◆	.50	3.96	29.70	SD103ASDM-FDITR-ND†◆	139.50/M
	45	1.0µA	0.45	10	—	SOT-26	SDM10M45SDDICT-ND†	.91	7.83	61.85	—	—
	45	1.0µA	0.45	10	—	SOT-26	SDM10M45SD-FDICT-ND†◆	.55	4.40	33.00	SDM10M45SD-FDITR-ND†◆	155.00/M
	70	100nA	0.41	1.0	5.0	SOT-363	BAS70DW-04-FDICT-ND◆	.66	5.28	39.60	BAS70DW-04-FDITR-ND◆	186.00/M
2	30	2.0µA	0.40	10	5.0	SOT-363	BAT54CDW-FDICT-ND◆	.55	4.40	33.00	BAT54CDW-FDITR-ND◆	155.00/M
	40	200nA	0.38	1.0	5.0	SOT-363	BAS40DW-05-FDICT-ND◆	.74	5.94	44.55	BAS40DW-05-FDITR-ND◆	209.25/M
	70	100nA	1.0	15	5.0	SOT-363	BAS70DW-05-FDICT-ND◆	.66	5.28	39.60	BAS70DW-05-FDITR-ND◆	186.00/M
3	30	2.0µA	0.40	10	5.0	SOT-363	BAT54ADW-FDICT-ND◆	.66	5.28	39.60	BAT54ADW-FDITR-ND◆	186.00/M
	40	200nA	0.38	1.0	5.0	SOT-363	BAS40DW-06-FDICT-ND◆	.74	5.94	44.55	BAS40DW-06-FDITR-ND◆	209.25/M
	70	100nA	0.41	1.0	5.0	SOT-363	BAS70DW-06DICT-ND	.82	7.31	58.08	—	—
	70	100nA	0.41	1.0	5.0	SOT-363	BAS70DW-06-FDICT-ND◆	.57	4.53	33.96	BAS70DW-06-FDITR-ND◆	186.00/M
4	30	2.0µA	0.32	1.0	5.0	SOT-363	BAT54TW-FDICT-ND◆	.53	3.75	25.00	BAT54TW-FDITR-ND◆	90.00/M
	40	200nA	0.38	1.0	5.0	SOT-363	BAS40TWDICT-ND	.68	5.88	46.39	—	—
	40	200nA	0.38	1.0	5.0	SOT-363	BAS40TW-FDICT-ND◆	.77	6.16	46.20	BAS40TW-FDITR-ND◆	217.00/M
	70	100nA	0.41	1.0	5.0	SOT-363	BAS70TW-FDICT-ND◆	.77	6.16	46.20	BAS70TW-FDITR-ND◆	217.00/M
5	30	2.0µA	0.45	10	5.0	SOT-363	QSBT40-FDICT-ND◆	1.06	9.12	72.00	QSBT40-FDITR-ND◆	348.00/M
6	30	2.0µA	0.40	10	5.0	SOT-363	BAT54BRW-FDICT-ND◆	.55	4.40	33.00	BAT54BRW-FDITR-ND◆	155.00/M
	40	200nA	0.38	1.0	5.0	SOT-363	BAS40BRW-FDICT-ND◆	.74	5.94	44.55	BAS40BRW-FDITR-ND◆	209.25/M
7	30	2.0µA	0.40	10	5.0	SOT-363	BAT54JW-FDICT-ND◆	.54	4.28	29.25	BAT54JW-FDITR-ND◆	123.75/M
	70	100nA	1.0	15	5.0	SOT-363	BAS70JW-FDICT-ND◆	.66	5.28	39.60	BAS70JW-FDITR-ND◆	186.00/M
8	40	2.0µA	0.37	20	10.0	SOT-363	SD103ATW-FDICT-ND◆	.48	3.38	22.50	SD103ATW-FDITR-ND◆	81.00/M

† Power Dissipation: 225mW; SOT-26 Package ◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Switching Diode Arrays Surface Mount

Fig. 1

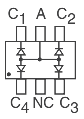

Fig. 2

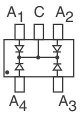

Fig. 3

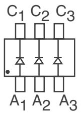

Fig. 4

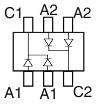

Fig. 5

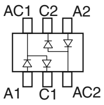

Fig. 6

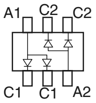

Fig. 7

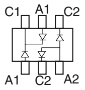

Fig. 8

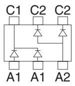

Fig. 9

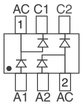

Fig. 10

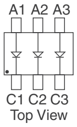

Fig. 11

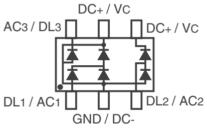

Fig. 12

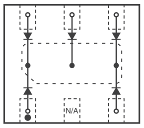

Fig. 13 ***NEW!***

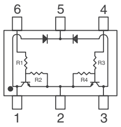

Fig.	Peak Reverse Voltage VRRM (V)	Maximum Reverse Current IR (µA)	Maximum Reverse Current VR (V)	Maximum Forward Voltage@ VF (V)	Maximum Forward Voltage@ IF (mA)	Maximum Reverse Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HAQW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HAQW-FDITR-ND◆	132.00/M
2	80	0.1	70	1.0	100	4.0	200	SOT-353	MMBD4448HCQW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HCQW-FDITR-ND◆	132.00/M
3	75	1.0	75	1.0	50	4.0	200	SOT-363	BAS16TW-FDICT-ND◆	.56	4.00	24.00	BAS16TW-FDITR-ND◆	80.00/M
	75	1.0	75	1.0	50	4.0	200	SOT-363	MMBD4148TW-FDICT-ND◆	.53	3.75	25.00	MMBD4148TW-FDITR-ND◆	90.00/M
	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HTW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HTW-FDITR-ND◆	132.00/M
	40	1.0	10	.37	1.0	—	225	SOT-26	SDM03MT40DICT-ND	.60	5.22	41.23	—	—
	40	1.0	10	.37	1.0	—	225	SOT-26	SDM03MT40-FDICT-ND◆	.55	4.40	33.00	SDM03MT40-FDITR-ND◆	155.00/M
4	75	2.5	75	1.0	50	4.0	200	SOT-363	BAV70DW-FDICT-ND◆	.56	4.00	24.00	BAV70DW-FDITR-ND◆	80.00/M
	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HCDW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HCDW-FDITR-ND◆	132.00/M
5	30	2.0	25	1.0	100	5.0	200	SOT-363	BAT54SDW-FDICT-ND◆	.66	5.28	39.60	BAT54SDW-FDITR-ND◆	186.00/M
	75	2.5	75	1.0	50	4.0	200	SOT-363	BAV99DW-FDICT-ND◆	.58	4.13	27.50	BAV99DW-FDITR-ND◆	99.00/M
	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HSDW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HSDW-FDITR-ND◆	132.00/M
	80	0.1	70	.72	5.0	4.0	200	SOT-363	SDA004DICT-ND◆	.56	4.00	24.00	SDA004DITR-ND◆	80.00/M
	85	0.005	75	1.0	10	3.0§	200	SOT-363	BAV199DW-FDICT-ND◆	.56	4.00	24.00	BAV199DW-FDITR-ND◆	80.00/M
6	75	2.5	75	1.0	50	4.0	200	SOT-363	BAW56DW-FDICT-ND◆	.49	3.50	21.00	BAW56DW-FDITR-ND◆	70.00/M
	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HADWDICT-ND	.57	4.53	33.96	—	—
	80	0.1	70	1.0	100	4.0	200	SOT-363	MMBD4448HADW-FDICT-ND◆	.58	4.56	31.20	MMBD4448HADW-FDITR-ND◆	132.00/M
7	75	2.5	75	1.0	50	4.0	200	SOT-363	BAV756DW-FDICT-ND◆	.56	4.00	24.00	BAV756DW-FDITR-ND◆	80.00/M
8	75	2.5	75	1.0	50	4.0	200	SOT-363	BAW567DWDICT-ND	.47	3.77	28.30	—	—
	75	2.5	75	1.0	50	4.0	200	SOT-363	BAW567DW-FDICT-ND◆	.53	3.75	25.00	BAW567DW-FDITR-ND◆	90.00/M
9	75	2.5	75	1.25	150	4.0	200	SOT-363	BAV99BRW-FDICT-ND◆	.55	4.40	33.00	BAV99BRW-FDITR-ND◆	155.00/M
	300	0.1	240	1.0	100	50	350	SOT-26	MMBD3004BRM-FDICT-ND◆	.55	4.40	33.00	MMBD3004BRM-FDITR-ND◆	155.00/M
	350	5.0	360	1.25	200	50	350	SOT-26	MMBD5004BRM-7CT-ND◆ ***NEW!***	.66	5.28	39.60	MMBD5004BRM-7TR-ND	186.00/M
10	80	0.1	70	1.0	100	4.0	225	SOT-26	MMBD4448HTM-FDICT-ND◆	.51	3.99	27.30	MMBD4448HTM-FDITR-ND◆	115.50/M
11	85	2.5	60	.80	1.0	3.0	200	SOT-363	DLPA004DICT-ND	.70	6.08	48.00	DLPA004DITR-ND	232.00/M
	85	0.005	75	.90	1.0	3.0§	200	SOT-363	DLPA006DICT-ND◆	.70	6.08	48.00	DLPA006DITR-ND◆	232.00/M
12	75	1	75	.715	1.0	4.0	500	DFN1616-6	MMBD4148PLMDICT-ND	.54	4.28	29.25	MMBD4148PLMDITR-ND	124.00/M
13	75	2.5	75	1.0	100	4.0	200	SOT-363	DRDNB21D-7DICT-ND◆ ***NEW!***	.55	4.40	33.00	DRDNB21D-7DITR-ND◆ ***NEW!***	155.00/M

◆ ***RoHS Compliant*** § Reverse Recovery Time @ µs

NEW! eGaN™ Enhancement Mode Power Transistors

Features: GaN's exceptionally high electron mobility and low temperature coefficient allows very low RDS(ON), while its lateral device structure and majority carrier diode provide exceptionally low QG and zero QRR. The end result is a device that can handle tasks where very high switching frequency, and low on-time are beneficial as well as those where on-state losses dominate.

Benefits: • Ultra High Efficiency • Ultra Low RDS(on) • Ultra low QG • Ultra small footprint

Applications: • High Speed DC-DC conversion • Class D Audio • Hard Switched and High Frequency Circuits

Fig. 1

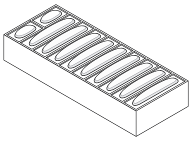

Fig. 2

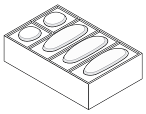

Fig. 3

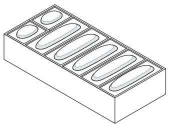

Fig. 4

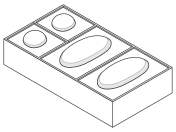

Fig.	VDS (V)	ID Cont. (A) 25°C	RDS (on) (mΩ)	Typ Qg @5V	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	EPC Part No.
1	100	25	7	11	917-1000-1-ND	6.00	54.00	440.00	917-1000-2-ND	500	1660.00	EPC1001
	60	25	7	10	917-1001-1-ND	5.58	50.22	409.20	917-1001-2-ND	500	1544.00	EPC1005
	40	33	4	11.5	917-1009-1-ND	5.31	47.79	389.40	917-1009-2-ND	500	1469.00	EPC1015
2	100	6	30	2.7	917-1002-1-ND	3.15	27.00	220.50	917-1002-2-ND	1,000	1305.00	EPC1007
	60	6	30	2.5	917-1003-1-ND	2.91	24.90	203.35	917-1003-2-ND	500	726.50	EPC1009
	40	10	16	3	917-1008-1-ND	2.70	23.10	188.65	917-1008-2-ND	1,000	1117.00	EPC1014
3	200	12	25	7.5	917-1004-1-ND	9.94	90.00	750.00	917-1004-2-ND	500	2906.50	EPC1010
	150	12	25	6.7	917-1005-1-ND	7.17	64.53	525.80	917-1005-2-ND	500	1983.50	EPC1011
4	200	3	100	1.9	917-1006-1-ND	4.50	40.50	330.00	917-1006-2-ND	1,000	2100.00	EPC1012
	150	3	100	1.7	917-1007-1-ND	3.30	29.70	242.00	917-1007-2-ND	500	913.00	EPC1013

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistors

Fig. 1 – TO-92

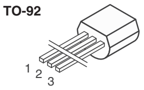

Cut Tape and Tape Reel lead spacing is 2.54mm

Fig. 2 – SOT-23

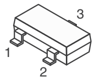

Fig. 3 – SOT-223

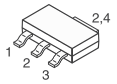

Fig. 4 – TO-264

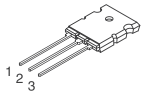

Fig. 5 – TO-220, TO-220AB

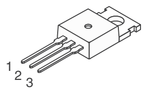

Fig. 6 – TO-220F

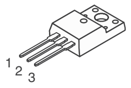

Fig. 7 – D-PAK and D2-PAK

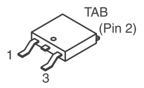

Fig. 8 – TO-126

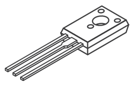

Fig. 9 – SOT-523F

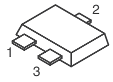

Fig. 10 – SOT-923F

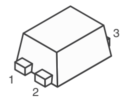

Fig. 11 – TO-3P

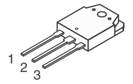

Fig. 12 – TO-3PF

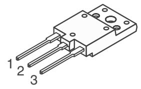

Fig. 13 – 16-SOIC

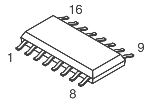

Fig. 14 - I2-PAK

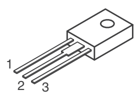

Fig. 15 – SC70-6

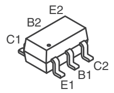

Fig. 16 – SuperSOT™ 6

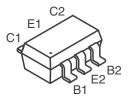

Fig. 17 – SuperSOT™ 3

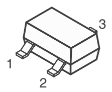

Fig. 18 – MicroFET 2x2

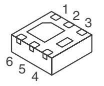

BOTTOM VIEW

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing			Tape and Reel§	
					1	25	100	Qty.	Pricing
NPN Transistors									
TO-92									
1	10	500	15	PN5134-ND◆	.44	5.00	14.00	—	—
	15	50	20	2N5770-ND◆	.50	5.63	15.75	—	—
	15	200	20	2N5769-ND	.47	5.38	15.05	—	—
	15	200	20	PN2369-ND	.46	5.23	14.63	—	—
	15	200	18	PN4275-ND◆	.44	5.00	14.00	—	—
	15	200	20	PN2369A-ND◆	.46	5.23	14.63	—	—
	20	1,200	20,000	MPSA12-ND	.58	6.58	18.41	—	—
	25	50	60	MPSH10FS-ND◆	.45	6.25	18.92	—	—
	25	100	150	MPS2924-ND	.35	5.80	18.87	—	—
	25	200	15	PN5135-ND	.43	5.97	18.08	—	—
	25	200	150	MPS6515-ND	.48	5.45	15.26	—	—
	25	500	150	PN3565-ND◆	.52	5.88	16.45	—	—
	30	100	300	2N5088BU-ND◆	.42	4.50	12.00	—	—
	30	100	420	BC548C-ND◆	.52	5.90	16.52	—	—
	30	500	100	BC184C-ND◆	.52	5.95	16.66	—	—
	30	500	100	BC184L-ND◆	.52	5.90	16.52	—	—
	30	600	35	PN2222BU-ND	.47	4.99	13.30	—	—
	30	1,200	5,000	MPSA13-ND◆	.58	6.58	18.41	—	—
	30	1,200	10,000	MPSA14-ND◆	.58	6.58	18.41	—	—
	30	1,200	30,000	BC517-ND◆	.60	6.78	18.97	—	—
	40	200	40	2N3904FS-ND◆	.42	4.50	12.00	—	—
	40	200	30	2N3904D26ZCT-ND◆∆	.40	4.24	11.30	2,000	31.00/M
	40	200	30	2N3904TFCT-ND◆∆	.40	4.24	11.30	2,000	31.00/M
	40	500	100	PN3569-ND◆	.50	5.70	15.96	—	—
	40	600	20	2N4400-ND◆	.47	4.99	13.30	—	—
	40	600	20	2N4401-ND◆	.47	4.99	13.30	—	—
	40	600	20	2N4401D26ZCT-ND◆∆	.47	4.99	13.30	2,000	36.00/M
	40	600	20	2N4401D75ZCT-ND◆∆◊	.47	4.99	13.30	2,000	36.00/M
	40	600	20	2N4401TFCT-ND◆∆	.47	4.99	13.30	2,000	36.00/M
	40	600	40	PN3567-ND◆	.50	5.70	15.96	—	—
	40	1,000	35	PN2222AFS-ND	.47	4.99	13.30	—	—
	40	1,000	35	PN2222AD26ZCT-ND◆∆	.47	4.99	13.30	2,000	36.00/M
	45	100	400	MPSA18-ND◆	.52	5.88	16.45	—	—
	45	100	80	PN100RMCT-ND◆∆◊	.59	6.76	18.80	2,000	55.00/M
	45	100	110	BC547-ND◆	.52	5.90	16.52	—	—
	45	100	110	BC547BFS-ND◆	.52	5.95	16.66	—	—
	45	100	110	BC547BTACT-ND◆∆◊	.42	4.50	12.00	2,000	32.40/M
	45	100	110	BC550-ND◆	.52	5.90	16.52	—	—
	45	800	60	BC337-ND◆	.44	6.18	18.71	—	—
	45	800	100	BC33725TACT-ND◆∆◊	.48	5.14	13.70	2,000	36.99/M
	45	800	170	BC33740TACT-ND◆∆◊	.50	5.36	14.30	2,000	38.61/M
	50	100	200	2N5210-ND◆	.42	4.50	12.00	—	—
	50	100	40	BC182-ND◆	.52	5.95	16.66	—	—
	60	100	20	PN2484-ND◆	.53	6.03	16.87	—	—
	65	100	110	BC546-ND◆	.52	5.95	16.66	—	—
	80	500	100	MPSA06-ND◆	.40	5.57	16.85	—	—
	80	500	100	MPSA06RACT-ND◆∆	.45	6.28	19.08	2,000	64.00/M
	80	1,000	25	BC639-ND◆	.43	5.95	18.02	—	—
	100	200	60	2N5830-ND	.53	6.05	16.94	—	—
	100	1,500	1,000	2N7052-ND◆	.43	6.24	19.98	—	—
	200	200	25	MPSA43-ND	.41	5.76	17.44	—	—
	300	500	25	MPSA42FS-ND◆	.38	5.25	15.90	—	—
	300	500	25	MPSA42_D26ZTR-ND	—	—	—	2,000	60.00/M
	400	300	40	KSP44TACT-ND◆∆◊	.62	7.13	19.84	2,000	58.28/M
	400	1,500	5	FJN13003TACT-ND◆∆◊	.46	7.61	25.00	2,000	105.77/M
	400	1,500	5	FJN3303TACT-ND◆∆◊	.59	8.30	25.20	2,000	84.00/M

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing			Tape and Reel§	
					1	25	100	Qty.	Pricing
SOT-23 — RoHS Compliant									
2	12	50	25	MMBT5179CT-ND∆	.43	4.92	13.68	3,000	40.19/M
	12	200	25	BSV52CT-ND∆	.41	4.35	11.60	3,000	31.00/M
	15	200	20	MMBT2369ACT-ND∆	.49	5.21	13.90	3,000	37.53/M
	25	50	60	MMBTH10FSCT-ND∆	.43	4.92	13.68	3,000	40.00/M
	25	100	300	MMBT5089CT-ND∆	.38	4.37	12.16	3,000	36.00/M
	25	200	60	KST10MTFCT-ND∆	.46	4.95	13.20	3,000	36.00/M
	30	100	300	MMBT5088CT-ND∆	.51	5.48	14.60	3,000	39.42/M
	30	100	110	BC848CMTFCT-ND∆	.41	4.35	11.60	3,000	31.00/M
	30	1,200	4,000	BCV27CT-ND∆	.41	4.66	12.96	3,000	38.00/M
	30	1,200	5,000	MMBTA13FSCT-ND∆	.44	5.09	14.16	3,000	42.00/M
	40	200	30	MMBT3904FSCT-ND∆	.32	3.38	9.00	3,000	24.30/M
	40	600	20	MMBT4401FSCT-ND∆	.43	4.65	12.40	3,000	33.48/M
	40	800	35	BSR14CT-ND∆	.44	4.73	12.60	3,000	34.02/M
	40	200	30	BSR17ACT-ND∆ ***NEW!***	.46	4.95	13.20	3,000	36.00/M
	40	1,000	35	MMBT2222AFSCT-ND∆	.39	4.13	11.00	3,000	29.70/M
	40	1,200	10,000	MMBT6427FSCT-ND∆	.45	5.20	14.48	3,000	43.00/M
	45	100	110	BC847BMTFCT-ND∆	.41	4.35	11.60	3,000	31.00/M
	45	100	110	BC847CMTFCT-ND∆	.41	4.35	11.60	3,000	31.00/M
	45	800	100	BC81725MTFCT-ND∆	.50	5.36	14.30	3,000	39.00/M
	50	500	250	MMBT6428CT-ND∆	.51	5.48	14.60	3,000	39.42/M
	50	800	100	BC81740MTFCT-ND∆	.50	5.36	14.30	3,000	38.61/M
	65	100	110	BC846BMTFCT-ND∆	.41	4.35	11.60	3,000	31.00/M
	80	500	100	MMBTA06FSCT-ND∆	.52	5.98	16.64	3,000	49.00/M
	160	600	30	MMBT5551FSCT-ND∆	.38	4.37	12.16	3,000	35.72/M
	300	500	25	MMBTA42FSCT-ND∆	.56	6.38	17.76	3,000	52.00/M
	300	500	25	KST42MTFCT-ND∆	.38	4.34	12.08	3,000	35.49/M
SOT-223 — RoHS Compliant									
3	40	1,000	35	PZT2222ACT-ND∆	.59	8.60	27.75	2,500	100.00/M
	60	1,500	25	BCP55FSCT-ND∆	.49	8.10	26.60	2,500	113.00/M
	80	500	100	PZTA06CT-ND∆ ***NEW!***	.52	8.51	27.96	2,500	118.00/M
	300	500	25	PZTA42CT-ND∆	.48	7.83	25.70	2,500	109.00/M
TO-264 — RoHS Compliant									
4	230	15,000	35	FJL4315OTU-ND	2.32	46.76	168.35	—	—
	230	15,000	80	2SC5200OTU-ND	2.60	52.50	189.00	—	—
	230	15,000	55	2SC5200RTU-ND	2.60	52.50	189.00	—	—
TO-220 — RoHS Compliant									
5	60	2,000	500	TIP110-ND	.63	11.58	39.69	—	—
	60	5,000	1,000	TIP120-ND	.68	12.59	43.17	—	—
	80	10,000	35	KSE44H11TU-ND	.73	14.08	49.06	—	—
	80	6,000	15	TIP41B-ND	.56	10.39	35.61	—	—
	100	1,000	15	TIP29CFS-ND	.55	10.11	34.65	—	—
	100	1,000	15	TIP29CTU-ND	.53	9.74	33.39	—	—
	100	2,000	500	TIP112TU-ND	.63	11.58	39.69	—	—
	100	3,000	10	TIP31CFS-ND	.53	9.74	33.39	—	—
	100	3,000	10	TIP31CTU-ND	.57	10.47	35.91	—	—
	100	5,000	1,000	TIP122FS-ND	.70	12.96	44.43	—	—
	100	5,000	1,000	TIP122TU-ND	.65	11.94	40.95	—	—
	100	6,000	15	TIP41CTU-ND	.67	12.31	42.21	—	—
	100	6,000	30	TIP41C-ND	.67	12.41	42.54	—	—
	100	8,000	200	TIP102TU-ND	.92	17.83	62.10	—	—
	100	8,000	200	TIP102-ND	.92	17.83	62.10	—	—
	100	8,000	750	BDX53C-ND	.64	12.48	43.47	—	—
	100	12,000	100	BDW93CFS-ND	1.00	19.29	67.20	—	—
	200	7,000	—	BU406FS-ND	.77	14.90	51.89	—	—
	230	15,000	55	FJP5200RTU-ND	1.22	24.33	85.16	—	—
	230	15,000	80	FJP5200OTU-ND	1.16	23.16	81.05	—	—
	300	1,000	10	TIP48-ND	.55	10.11	34.65	—	—
	350	1,000	10	TIP49FS-ND	.57	10.57	36.24	—	—
	400	1,000	10	TIP50-ND	.56	10.39	35.61	—	—
	400	1,500	5	KSE13003TH2ATU-ND	.62	11.39	39.06	—	—
	400	4,000	8	FJP3305-ND	.62	11.98	41.75	—	—
	400	4,000	8	FJP5304DTU-ND	.60	11.03	37.80	—	—
	400	4,000	19	FJP3305H1TU-ND	.64	11.76	40.32	—	—
	400	4,000	20	FJP5554TU-ND	.76	14.65	51.03	—	—
	400	4,000	26	FJP3305H2TU-ND	.62	11.39	39.06	—	—

∆ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND. ◊ For Tape and Box part number, change CT-ND to TB-ND. ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistors *(Cont.)*

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing			Tape and Reel§	
					1	25	100	Qty.	Pricing
5	400	5,000	10	FJP5555TU-ND	.84	16.28	56.70	—	—
	400	5,000	8	KSC5305DFTTU-ND	.82	15.87	55.30	—	—
	400	8,000	5	FJP13007TU-ND	.76	14.65	51.03	—	—
	400	8,000	15	FJP13007H1TU-ND	.71	13.67	47.63	—	—
	400	8,000	26	FJP13007H2TU-ND	.76	14.65	51.03	—	—
	400	12,000	6	FJP13009TU-ND	.94	18.15	63.23	—	—
	400	12,000	15	FJP13009H2TU-ND	.94	18.15	63.23	—	—
	450	2,000	4	KSC5402DTTU-ND	.62	12.04	41.96	—	—
	450	5,000	4	KSC5338D-ND	.82	15.87	55.30	—	—
	450	5,000	4	KSC5338DTU-ND	.82	15.87	55.30	—	—
	500	5,000	8	FJP5321TU-ND	.71	13.83	48.20	—	—
	600	2,000	4	KSC5502TU-ND	.71	13.67	47.63	—	—
	800	3,000	6	KSC5603DTU-ND	.94	18.82	65.86	—	—
	800	3,000	8	FJP5027TU-ND	.60	11.58	40.36	—	—
	800	3,000	15	FJP5027RTU-ND	.74	14.24	49.63	—	—
	800	3,000	20	FJP5027OTU-ND	.74	14.24	49.63	—	—
	800	3,000	20	KSC5027OTU-ND	.83	16.11	56.13	—	—
TO-220F — RoHS Compliant									
6	230	15,000	55	FJPF5200RTU-ND	1.30	25.95	90.82	—	—
	250	15,000	80	FJPF5200OTU-ND	1.29	25.73	90.04	—	—
	400	8,000	26	FJPF13007H2TU-ND	.76	14.65	51.03	—	—
	400	8,000	5	FJPF13007TU-ND	.75	14.57	50.76	—	—
	400	12,000	6	FJPF13009H2TU-ND	.97	18.72	65.21	—	—
	400	12,000	6	FJPF13009TU-ND	.88	17.57	61.50	—	—
	400	4,000	8	FJPF3305H1TU-ND	.61	11.90	41.47	—	—
	400	4,000	8	FJPF3305H2TU-ND	.67	12.41	42.54	—	—
	400	4,000	8	FJPF3305TU-ND	.65	12.53	43.66	—	—
	800	3,000	20	FJPF5027OTU-ND	.78	15.06	52.46	—	—
	800	3,000	15	FJPF5027RTU-ND	.78	15.06	52.46	—	—
D-PAK — RoHS Compliant									
7	60	10,000	5	MJD3055TFCT-NDΔ	.76	13.24	45.41	2,000	213.00/M
	80	8,000	40	MJD44H11TMCT-NDΔ	.71	13.74	48.51	2,500	234.00/M
	100	8,000	1000	KSH122TFCT-NDΔ	.76	13.34	45.74	2,000	215.00/M
	100	2,000	200	MJD112TFCT-NDΔ	.77	13.54	46.43	2,000	218.00/M
	100	8,000	100	MJD122TFCT-NDΔ	.66	12.77	45.06	2,000	218.00/M
	100	3,000	10	MJD31CTFCT-NDΔ	.72	12.53	42.97	2,000	202.00/M
	100	6,000	15	MJD41CTFCT-NDΔ	.66	12.77	45.06	2,000	218.00/M
	100	6,000	15	KSH41CTFCT-NDΔ	.74	12.94	44.35	2,000	208.00/M
	100	3,000	10	KSH31CTFCT-NDΔ	.65	11.29	38.71	2,000	182.00/M
	100	2,000	200	KSH112TMCT-NDΔ	.74	14.28	50.40	2,500	244.00/M
	100	8,000	100	KSH122TMCT-NDΔ	.74	14.28	50.40	2,500	244.00/M
	300	500	30	MJD340TFCT-NDΔ	.47	8.25	28.30	2,000	179.00/M
	400	3,000	10	FJD5553TMCT-NDΔ	.69	13.87	41.60	2,500	224.00/M
	400	4,000	10	FJD5304DTFCT-NDΔ	.69	12.13	41.58	2,000	195.00/M
	400	5,000	10	FJD5555TMCT-NDΔ	.64	13.87	43.81	2,500	259.00/M
	600	2,000	3	KSC5502DTMCT-NDΔ	.81	15.62	55.14	2,500	267.00/M
D2-PAK — RoHS Compliant									
7	100	8,000	200	FJB102TMCT-NDΔ	1.06	20.87	75.14	800	369.60
TO-126 — RoHS Compliant									
8	60	5,000	160	KSD1691YSTU-ND	.54	10.02	34.35	—	—
	80	1,500	25	BD13916STU-ND	.48	7.94	25.87	—	—
	80	4,000	750	BD679AS-ND	.58	10.75	36.87	—	—
	100	4,000	750	BD681S-ND	.58	10.75	36.87	—	—
	300	100	40	2SC3503DSTU-ND	.57	9.48	30.87	—	—
	300	100	100	2SC3503ESTU-ND	.57	9.48	30.87	—	—
	300	100	160	2SC3503FSTU-ND	.57	9.48	30.87	—	—
	300	500	30	MJE340STU-ND	.53	8.80	28.67	—	—
	300	500	30	KSE340STU-ND	.50	8.21	26.74	—	—
	400	1,500	5	FJE3303TU-ND	.45	8.31	28.50	—	—
	400	1,500	8	FJE3303H1TU-ND	.50	8.25	26.85	—	—
	400	1,500	5	KSE13003H1ASTU-ND	.53	8.80	28.67	—	—
	400	1,500	5	KSE13003H2ASTU-ND	.53	8.70	28.32	—	—
	400	1,500	14	FJE3303H2TU-ND	.45	8.30	28.44	—	—
	400	4,000	8	FJE5304DTU-ND	.57	10.47	35.91	—	—
SOT-523F — RoHS Compliant									
9	40	200	30	MMBT3904TCT-NDΔ	.45	5.15	14.32	3,000	42.00/M
	40	600	35	MMBT2222ATCT-NDΔ	.47	3.21	15.12	3,000	44.00/M
	50	100	30	FJY3002RCT-NDΔ	.52	6.01	16.72	3,000	49.00/M
	50	100	56	FJY3004RCT-NDΔ	.37	4.28	11.92	—	—
	50	100	56	FJY3013RCT-NDΔ	.37	4.28	11.92	—	—
	50	100	68	FJY3014RCT-NDΔ	.44	5.03	14.00	3,000	41.00/M
SOT-923F — RoHS Compliant									
10	40	200	40	MMBT3904SLCT-NDΔ	.62	4.22	19.84	8,000	50.00/M
	40	200	60	MMBT3906SLCT-NDΔ	.63	4.27	20.08	8,000	50.00/M
TO-3P — RoHS Compliant									
11	140	10,000	50	FJA4310OTU-ND	1.59	31.83	111.40	—	—
	230	15,000	35	FJA4313RTU-ND	1.66	33.30	116.55	—	—
	230	15,000	35	FJA4313OTU-ND	1.55	31.02	108.56	—	—
	230	15,000	80	2SC5242OTU-ND	2.60	52.50	189.00	—	—
	230	15,000	55	2SC5242RTU-ND	2.60	52.50	189.00	—	—
	400	12,000	6	FJA13009TU-ND	1.30	25.95	90.82	—	—
TO-3PF — RoHS Compliant									
12	140	10,000	50	FJAF4310YTU-ND	1.73	34.55	120.91	—	—
	140	10,000	70	FJAF4310OTU-ND	1.72	34.40	120.39	—	—
16-SOIC — RoHS Compliant									
13	40	200	30	MMPQ3904FSCT-NDΔ	1.44	28.35	102.06	2,500	529.00/M
	40	500	35	MMPQ2222ACT-NDΔ	1.46	28.82	103.76	2,500	538.00/M
I^2-PAK — RoHS Compliant									
14	800	3,000	20	FJI5603DTU-ND	1.11	22.23	77.79	—	—
SC70-6 — RoHS Compliant									
15	40	200	30	FFB3904CT-NDΔ	.56	7.88	23.94	3,000	80.00/M

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing			Tape and Reel§	
					1	25	100	Qty.	Pricing
SuperSOT™ 6 — RoHS Compliant									
16	40	500	35	FMB2222ACT-NDΔ	.53	7.78	25.10	3,000	90.00/M
PNP Transistors									
TO-92									
1	12	200	20	PN3640-ND◆	.59	10.90	37.38	—	—
	15	200	20	2N5771-ND	1.59	31.98	115.11	—	—
	25	800	20	PN3638A-ND◆	.50	5.65	15.82	—	—
	30	200	30	PN4917-ND	.50	5.70	15.96	—	—
	30	500	50	PN5138-ND	.52	7.56	24.20	—	—
	30	1,200	5,000	MPSA63-ND◆	.58	6.58	18.41	—	—
	30	1,000	30,000	BC516-ND◆	.62	7.00	19.60	—	—
	30	100	110	BC559-ND◆	.58	6.58	18.41	—	—
	40	200	30	2N3906FS-ND◆	.46	4.88	13.00	—	—
	40	200	30	2N3906D26ZCT-ND◆Δ	.46	4.88	13.00	2,000	35.00/M
	40	200	30	2N3906TFCT-ND◆Δ	.46	4.88	13.00	2,000	35.00/M
	40	200	30	PN4122-ND	.50	7.29	23.32	—	—
	40	500	100	PN4249-ND	.53	6.05	16.94	—	—
	40	500	250	PN4250-ND	.57	6.43	17.99	—	—
	40	600	30	2N4402-ND	.49	5.29	14.10	—	—
	40	600	20	2N4403-ND◆	.49	5.29	14.10	—	—
	40	600	20	2N4403D26ZCT-ND◆Δ	.49	5.29	14.10	2,000	38.00/M
	40	800	30	PN2907-ND◆	.49	5.29	14.10	—	—
	45	800	40	BC327-ND◆	.43	6.00	18.18	—	—
	45	100	110	BC557-ND◆	.58	6.58	18.41	—	—
	45	100	420	BC560CTACT-ND◆Δ◊	.29	4.69	8.16	2,000	34.29/M
	50	100	100	BC32725TACT-ND◆◊Δ ***NEW!***	.39	4.43	12.32	2,000	36.19/M
	60	500	250	PN4250A-ND◆	.57	6.43	17.99	—	—
	60	500	100	MPSA05-ND◆	.40	5.57	16.85	—	—
	60	800	10	PN2907ABUFS-ND◆	.49	5.29	14.10	—	—
	60	800	50	PN2907ATACT-ND◆Δ◊	.49	5.29	14.10	2,000	38.07/M
	80	500	100	MPSA56-ND◆	.55	6.30	17.64	—	—
	80	1,000	25	BC640-ND◆	.47	6.53	19.77	—	—
	300	500	25	MPSA92FS-ND◆	.39	5.48	16.59	—	—
SOT-23 — RoHS Compliant									
2	12	200	20	MMBT3640CT-NDΔ	.71	13.74	48.51	3,000	234.00/M
	15	200	35	MMBT5771CT-NDΔ	1.82	35.09	127.35	3,000	702.00/M
	20	50	60	MMBTH81CT-NDΔ	.41	4.66	12.96	3,000	38.07/M
	25	200	60	MMBT4126FSCT-NDΔ	.49	5.21	13.90	3,000	37.53/M
	30	1,200	4,000	BCV26FSCT-NDΔ	.44	5.06	14.08	3,000	41.00/M
	30	1,200	10,000	MMBTA64FSCT-NDΔ	.43	4.97	13.84	3,000	41.00/M
	40	600	20	MMBT4403FSCT-NDΔ	.41	4.35	11.60	3,000	31.32/M
	40	200	30	MMBT3906FSCT-NDΔ	.36	3.90	10.40	3,000	28.08/M
	40	800	35	MMBT2907CT-NDΔ	.45	4.84	12.90	3,000	35.00/M
	45	800	100	BC80725MTFCT-NDΔ	.50	5.36	14.30	3,000	38.61/M
	45	800	100	BC80740MTFCT-NDΔ	.50	5.36	14.30	3,000	38.61/M
	50	100	250	MMBT5087CT-NDΔ	.41	4.66	12.96	3,000	38.07/M
	60	800	75	BSR16CT-NDΔ	.47	5.06	13.50	3,000	36.45/M
	60	800	50	MMBT2907AFSCT-NDΔ	.41	4.35	11.60	3,000	31.32/M
	65	100	110	BC856BMTFCT-NDΔ	.44	4.73	12.60	3,000	34.00/M
	80	500	100	MMBTA56FSCT-NDΔ	.43	4.97	13.84	3,000	41.00/M
	150	600	50	MMBT5401FSCT-NDΔ	.50	5.40	14.40	3,000	38.88/M
	300	500	25	KST92MTFCT-NDΔ	.43	4.97	13.84	3,000	41.00/M
	300	500	25	MMBTA92FSCT-NDΔ	.68	7.76	21.60	3,000	63.00/M
TO-264 — RoHS Compliant									
4	230	13,000	35	FJL4215OTU-ND	2.58	52.09	187.54	—	—
	230	15,000	80	2SA1943OTU-ND	2.60	52.50	189.00	—	—
	230	15,000	55	2SA1943RTU-ND	2.60	52.50	189.00	—	—
TO-220 — RoHS Compliant									
5	60	5,000	1,000	TIP125TU-ND	.60	11.03	37.80	—	—
	60	8,000	200	TIP105TU-ND	.67	13.02	45.36	—	—
	80	5,000	1,000	TIP126-ND	.60	11.03	37.80	—	—
	80	8,000	40	D45H11-ND	1.16	23.16	81.05	—	—
	100	1,000	15	TIP30C-ND	.53	9.74	33.39	—	—
	100	2,000	500	TIP117TU-ND	.59	10.94	37.50	—	—
	100	3,000	10	TIP32CFS-ND	.57	10.57	36.24	—	—
	100	3,000	10	TIP32CTU-ND	.56	10.39	35.61	—	—
	100	5,000	1,000	TIP127FS-ND	.60	11.03	37.80	—	—
	100	5,000	1,000	TIP127TU-ND	.63	11.67	40.02	—	—
	100	6,000	15	TIP42CTU-ND	.69	12.68	43.47	—	—
	100	6,000	15	TIP42C-ND	.65	11.94	40.95	—	—
	100	8,000	2	TIP107TU-ND	.71	13.67	47.63	—	—
	100	8,000	200	TIP107-ND	.75	14.57	50.76	—	—
	100	8,000	750	BDX54C-ND	.62	12.04	41.96	—	—
TO-220AB — RoHS Compliant									
5	230	15,000	55	FJP1943RTU-ND	1.60	31.98	111.92	—	—
	230	15,000	80	FJP1943OTU-ND	1.48	29.69	103.93	—	—
TO-220F — RoHS Compliant									
6	230	15,000	55	FJPF1943RTU-ND	1.65	33.08	115.76	—	—
	230	15,000	80	FJPF1943OTU-ND	1.65	33.08	115.76	—	—
D-PAK — RoHS Compliant									
7	40	1,000	15	KSH30TFCT-NDΔ	.64	11.22	38.48	2,000	181.00/M
	80	8,000	40	MJD45H11TFCT-NDΔ	.77	14.91	52.62	2,000	254.00/M
	80	8,000	40	MJD45H11TMCT-NDΔ	.77	14.91	52.62	2,500	254.00/M

Δ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND. ◊ For Tape and Box part number, change CT-ND to TB-ND. ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistors *(Cont.)*

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
7	100	2,000	200	KSH117 TFCT-NDΔ	.79	13.85	47.49	2,000	223.00/M
	100	2,000	200	MJD117TFCT-NDΔ	.68	11.93	40.89	2,000	192.00/M
	100	8,000	100	KSH127TFCT-NDΔ	.73	12.73	43.66	2,000	205.00/M
	100	3,000	10	KSH32CTFCT-NDΔ	.62	10.91	37.42	2,000	176.00/M
	100	6,000	15	KSH42CTFCT-NDΔ	.75	13.04	44.72	2,000	210.00/M
	100	8,000	100	MJD127TFCT-NDΔ	.80	13.95	47.82	2,000	225.00/M
	100	3,000	10	MJD32CTFCT-NDΔ	.62	10.91	37.42	2,000	176.00/M
TO-126 — RoHS Compliant									
8	80	1,500	25	BD14016STU-ND	.48	7.90	25.73	—	—
	300	100	40	2SA1381CSTU-ND	.57	9.48	30.87	—	—
	300	100	60	2SA1381DSTU-ND	.57	9.48	30.87	—	—
	300	100	100	2SA1381ESTU-ND	.57	9.48	30.87	—	—
	300	100	160	2SA1381FSTU-ND	.57	9.48	30.87	—	—
	300	500	30	MJE340STU-ND	.53	8.80	28.67	—	—
SOT-523F — RoHS Compliant									
9	40	200	30	MMBT3906TCT-NDΔ	.45	5.15	14.32	3,000	42.00/M
	50	100	30	FJY4002RCT-NDΔ	.37	4.28	11.92	—	—
TO-3P — RoHS Compliant									
11	100	1,000	500	TIP147TU-ND	1.45	29.04	101.63	—	—
	140	10,000	50	FJA4210OTU-ND	1.57	31.63	113.87	—	—
	230	15,000	35	FJA4213RTU-ND	1.73	34.78	125.21	—	—
11	230	15,000	35	FJA4213OTU-ND	1.73	34.78	125.21	—	—
	230	15,000	55	2SA1962OTU-ND	1.76	35.44	127.58	—	—
TO-3PF — RoHS Compliant									
12	100	10,000	500	TIP147FTU-ND	1.69	33.89	118.60	—	—
	140	10,000	50	FJAF4210YTU-ND	1.79	36.09	129.94	—	—
	140	10,000	70	FJAF4210OTU-ND	1.79	36.09	129.94	—	—
	140	10,000	50	FJAF4210RTU-ND	2.12	42.66	153.56	—	—
SuperSOT™ 3 — RoHS Compliant									
17	30	1,000	40	FMMT549FSCT-NDΔ	.50	7.05	21.42	3,000	71.00/M
MicroFET 2x2 — RoHS Compliant									
18	35	2,000	100	FJMA790CT-NDΔ	.92	17.85	63.00	3,000	305.00/M

Δ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND. ◊ For Tape and Box part number, change CT-ND to TB-ND. ◆ ***RoHS Compliant***

Fig.	Description	Type	Package	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
J-FET Transistors — RoHS Compliant									
1	GP Amp	N-Chan.	TO-92	2N5457FS-ND	.45	6.23	18.87	—	—
	VHF Amp & Mixer	N-Chan.	TO-92	MPF102-ND	.63	7.18	20.09	—	—
2	Switch - 25V	N-Chan.	SOT-23	MMBFJ310CT-ND	.50	7.28	23.50	3,000	105.00/M
	Switch - 30V	N-Chan.	SOT-23	MMBF4392CT-ND	.61	8.55	25.98	3,000	87.00/M
	Switch - 35V	N-Chan.	SOT-23	MMBFJ113CT-ND	.59	8.65	27.90	3,000	100.00/M
	Switch - 40V	N-Chan.	SOT-23	MMBFJ201CT-ND	.62	9.13	29.45	3,000	106.00/M
	Switch - 30V	P-Chan.	SOT-23	MMBFJ175CT-ND	.50	8.23	27.03	3,000	114.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount and Through-Hole Power MOSFETS

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig.	Type	VDS (V)	RDS (on) Ω	RDS (on) @ Volt.	ID (A)	PD (W)	Config-uration	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
SOT-23 — RoHS Compliant														
1	N-Chan.	20	0.22	4.5	0.9	0.35	Single	FDV305NCT-ND	.46	3.59	24.57	FDV305NTR-ND	3,000	104.00/M
	N-Chan.	25	4	4.5	0.22	0.35	Single	FDV301NCT-ND	.61	4.11	19.36	FDV301NTR-ND	3,000	56.87/M
	N-Chan.	25	0.45	4.5	0.68	0.35	Single	FDV303NCT-ND	.49	3.47	23.10	FDV303NTR-ND	3,000	83.00/M
	N-Chan.	30	0.125	4.5	1.6	0.5	Single	NDS355NCT-ND	.71	5.68	42.64	NDS355NTR-ND	3,000	200.00/M
	N-Chan.	30	30	10	0.05	0.35	Single	MMBF4393CT-ND	.61	4.33	25.98	MMBF4393TR-ND	3,000	87.00/M
	N-Chan.	50	3.5	10	0.22	0.36	Single	BSS138CT-ND	.63	4.28	20.16	BSS138TR-ND	3,000	59.22/M
	N-Chan.	60	7.5	10	0.115	0.2	Single	2N7002NCT-ND	.53	3.57	16.80	2N7002NTR-ND	3,000	49.00/M
	N-Chan.	60	5	10	0.500	0.3	Single	MMBF170CT-ND ***NEW!***	.44	3.15	18.90	MMBF170TR-ND ***NEW!***	3,000	63.00/M
	N-Chan.	60	2	10	0.28	0.3	Single	NDS7002ACT-ND	.50	3.55	23.65	NDS7002ATR-ND	3,000	85.00/M
	N-Chan.	60	2	10	0.115	0.35	Single	2N7002KCT-ND ***NEW!***	.40	2.72	12.80	2N7002KTR-ND ***NEW!***	3,000	38.00/M
	N-Chan.	100	6	10	0.17	0.36	Single	BSS123NCT-ND	.63	4.28	20.16	BSS123NTR-ND	3,000	59.22/M
	P-Chan.	25	10	4.5	0.12	0.35	Single	FDV302PCT-ND	.43	3.05	18.30	FDV302PTR-ND	3,000	61.00/M
	P-Chan.	25	1.1	4.5	0.46	0.35	Single	FDV304PCT-ND	.50	3.89	26.64	FDV304PTR-ND	3,000	113.00/M
	P-Chan.	50	10	10	0.13	0.3	Single	BSS84CT-ND	.63	4.28	20.16	BSS84TR-ND	3,000	59.22/M
	P-Chan.	60	5	10	0.18	0.36	Single	NDS0605CT-ND	.57	4.02	26.80	NDS0605TR-ND	3,000	96.00/M
	P-Chan.	60	10	10	0.12	0.36	Single	NDS0610CT-ND	.57	4.10	24.60	NDS0610TR-ND	3,000	82.00/M
SuperSOT™-3 High Drain Current — RoHS Compliant														
1	N-Chan.	20	0.055	4.5	1.7	0.5	Single	FDN335NCT-ND	.49	3.83	26.21	FDN335NTR-ND	3,000	111.00/M
	N-Chan.	20	0.029	4.5	3	0.5	Single	FDN339ANCT-ND	.69	5.54	41.58	FDN339ANTR-ND	3,000	195.00/M
	N-Chan.	20	0.16	4.5	1.3	0.5	Single	NDS331NCT-ND	.53	4.19	28.67	NDS331NTR-ND	3,000	121.00/M
	N-Chan.	30	0.065	4.5	2.2	0.5	Single	FDN337NCT-ND	.59	4.67	31.94	FDN337NTR-ND	3,000	135.00/M
	N-Chan.	30	0.081	4.5	1.9	0.5	Single	FDN357NCT-ND	.52	4.16	31.19	FDN357NTR-ND	3,000	146.00/M
	N-Chan.	30	0.037	10	2.7	0.5	Single	FDN359ANCT-ND	.68	5.87	46.32	FDN359ANTR-ND	3,000	224.00/M
	N-Chan.	30	0.026	10	2.7	0.5	Single	FDN359BNCT-ND	.74	6.38	50.40	FDN359BNTR-ND	3,000	244.00/M
	N-Chan.	30	0.16	10	1.4	0.5	Single	NDS351ANCT-ND	.50	3.89	26.64	NDS351ANTR-ND	3,000	113.00/M
	N-Chan.	30	0.08	10	1.7	0.5	Single	NDS355ANCT-ND	.51	4.07	30.49	NDS355ANTR-ND	3,000	143.00/M
	N-Chan.	30	0.092	10	1.4	0.5	Single	FDN361BNCT-ND	.58	4.62	34.65	FDN361BNTR-ND	3,000	163.00/M
	N-Chan.	60	0.073	10	1.7	0.5	Single	FDN5630CT-ND	.66	5.32	39.86	FDN5630TR-ND	3,000	187.00/M
	P-Chan.	12	0.03	4.5	2.6	0.5	Single	FDN306PCT-ND	.55	4.39	32.93	FDN306PTR-ND	3,000	155.00/M
	P-Chan.	20	0.055	4.5	2.4	0.5	Single	FDN302PCT-ND	.61	4.85	36.40	FDN302PTR-ND	3,000	171.00/M
	P-Chan.	20	0.052	4.5	2.4	0.5	Single	FDN304PZCT-ND	.64	5.08	38.12	FDN304PZTR-ND	3,000	179.00/M
	P-Chan.	20	0.07	4.5	2	0.5	Single	FDN327NCT-ND	.66	5.32	39.86	FDN327NTR-ND	3,000	187.00/M
	P-Chan.	20	0.036	4.5	2.4	0.5	Single	FDN304PCT-ND	.61	4.85	36.40	FDN304PTR-ND	3,000	171.00/M
	P-Chan.	20	0.122	4.5	1.3	0.5	Single	FDN336PCT-ND	.54	4.30	32.24	FDN336PTR-ND	3,000	151.00/M
	P-Chan.	20	0.115	4.5	1.6	0.5	Single	FDN338PCT-ND	.47	3.71	25.39	FDN338PTR-ND	3,000	107.00/M
	P-Chan.	20	60	4.5	2	0.5	Single	FDN340PCT-ND	.51	4.07	30.49	FDN340PTR-ND	3,000	143.00/M
	P-Chan.	20	0.3	4.5	1.0	0.5	Single	NDS332PCT-ND	.56	4.37	29.91	NDS332PTR-ND	3,000	127.00/M
	P-Chan.	30	0.18	10	1.3	0.5	Single	FDN352APCT-ND	.53	4.19	28.67	FDN352APTR-ND	3,000	121.00/M
	P-Chan.	30	0.0105	10	1.5	0.5	Single	FDN358PCT-ND	.65	5.09	34.83	FDN358PTR-ND	3,000	147.00/M
	P-Chan.	30	0.063	10	2	0.5	Single	FDN360PCT-ND	.52	4.16	31.19	FDN360PTR-ND	3,000	146.00/M
	P-Chan.	30	0.3	10	0.9	0.5	Single	NDS352APCT-ND	.61	4.85	36.40	NDS352APTR-ND	3,000	171.00/M
	P-Chan.	30	0.2	10	1.1	0.5	Single	NDS356APCT-ND	.65	5.22	39.17	NDS356APTR-ND	3,000	184.00/M
	P-Chan.	60	0.148	10	1.25	0.5	Single	FDN5618PCT-ND	.69	5.54	41.58	FDN5618PTR-ND	3,000	195.00/M
SuperSOT™-6 (SOT-6) — RoHS Compliant														
2	N-Chan.	20	0.019	4.5	6.2	1.6	Single	FDC637ANCT-ND	.79	6.78	53.55	FDC637ANTR-ND	3,000	259.00/M
	N-Chan.	20	0.021	4.5	6.2	1.6	Single	FDC637BNZCT-ND	.54	4.28	29.25	FDC637BNZTR-ND	3,000	124.00/M
	N-Chan.	20	0.06	4.5	2.7	0.96	Dual	FDC6305NCT-ND	.59	4.71	35.34	FDC6305NTR-ND	3,000	166.00/M
	N-Chan.	20	0.07	4.5	3	0.7	Dual	FDC6401NCT-ND	.58	4.62	34.65	FDC6401NTR-ND	3,000	163.00/M
	N-Chan.	30	0.02	10	6.1	1.6	Single	FDC855NCT-ND	.66	5.32	39.86	FDC855NTR-ND	3,000	187.00/M
	N-Chan.	30	0.027	10	5	1.6	Single	FDC653NCT-ND	.79	6.33	47.49	FDC653NTR-ND	3,000	223.00/M
	N-Chan.	30	0.082	10	2.5	0.96	Dual	FDC6561ANCT-ND	.72	5.78	43.33	FDC6561ANTR-ND	3,000	204.00/M
	N-Chan.	50	2	10	0.35	0.5	Dual	NDC7002NCT-ND	.52	4.16	31.19	NDC7002NTR-ND	3,000	146.00/M
	N-Chan.	60	0.042	10	4.3	1.6	Single	FDC5612CT-ND	1.04	8.98	70.89	FDC5612TR-ND	3,000	343.00/M
	N-Chan.	100	0.07	10	3.7	2	Single	FDC3616NCT-ND	1.20	10.71	85.05	FDC3616NTR-ND	3,000	441.00/M
	N-Chan.	100	0.125	10	2.6	1.6	Single	FDC3612CT-ND	.98	8.46	66.78	FDC3612TR-ND	3,000	323.00/M
	N-Chan.	150	0.319	10	1.4	1.6	Single	FDC2512CT-ND ***NEW!***	.92	7.98	63.00	FDC2512TR-ND ***NEW!***	3,000	305.00/M
	P-Chan.	12	0.026	4.5	6	0.8	Single	FDC606PCT-ND	1.04	9.02	71.19	FDC606PTR-ND	3,000	344.00/M
	P-Chan.	20	0.035	4.5	5.5	1.6	Single	FDC602PCT-ND	.57	4.53	33.96	FDC602PTR-ND	3,000	159.00/M
	P-Chan.	20	0.053	4.5	4.5	1.6	Single	FDC640PCT-ND	.58	4.62	34.65	FDC640PTR-ND	3,000	163.00/M
	P-Chan.	20	0.02	4.5	8	2	Single	FDC697PCT-ND	1.86	15.90	129.85	FDC697PTR-ND	3,000	678.40/M
	P-Chan.	20	0.024	4.5	5.5	1.6	Dual	FDC604PCT-ND	.65	5.22	39.17	FDC604PTR-ND	3,000	184.00/M

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out

(Continued)

Fig. 1 — SOT-23, SuperSOT™-3

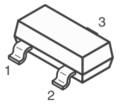

Fig. 2 — SuperSOT™-6

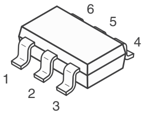

Fig. 3 — Power MOSFET (SO-8), PowerTrench® SyncFET™ (SO-8), 8-SOP

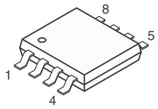

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Digi-Reel® *Multiple pinout configurations available, see Digi-Key web site for data sheet.*

Fig.	Type	VDS (V)	RDS (on) Ω	RDS (on) @ Volt.	ID (A)	PD (W)	Configuration	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
2	P-Chan.	20	0.026	4.5	5.8	1.6	Single	FDC608PZCT-ND	.64	5.08	38.12	FDC608PZTR-ND	3,000	179.00/M
	P-Chan.	20	0.037	4.5	4.5	1.6	Single	FDC638APZCT-ND	.64	5.03	34.40	FDC638APZTR-ND	3,000	146.00/M
	P-Chan.	20	0.039	4.5	4.5	1.6	Single	FDC638PCT-ND	.61	4.85	36.40	FDC638PTR-ND	3,000	171.00/M
	P-Chan.	20	0.06	4.5	3.5	1.6	Single	FDC634PCT-ND	.58	4.62	34.65	FDC634PTR-ND	3,000	163.00/M
	P-Chan.	20	0.065	4.5	4	1.6	Single	SI3443DVFSCT-ND	.69	5.50	41.25	SI3443DVFSTR-ND	3,000	194.00/M
	P-Chan.	20	0.115	4.5	2.3	0.7	Dual	FDC6312PCT-ND	.65	5.09	34.83	FDC6312PTR-ND	3,000	147.00/M
	P-Chan.	20	0.127	4.5	1.9	0.96	Dual	FDC6306PCT-ND	.52	4.16	31.19	FDC6306PTR-ND	3,000	146.00/M
	P-Chan.	20	0.15	4.5	3	0.8	Single	FDFC2P100CT-ND	.60	4.83	36.22	—	—	—
	P-Chan.	20	0.15	4.5	2.2	0.96	Mosfet w/ Diode	FDC6392SCT-ND	.95	8.50	67.50	FDC6392STR-ND	3,000	350.00/M
	P-Chan.	25	1.5	2.7	0.46	0.7	Dual	FDC6304PCT-ND	.70	5.64	42.27	FDC6304PTR-ND	3,000	199.00/M
	P-Chan.	30	0.044	10	4	1.6	Single	FDC658APCT-ND	.64	4.88	35.15	FDC658APTR-ND	3,000	170.10/M
	P-Chan.	30	0.025	10	6.3	1.6	Single	FDC655BNCT-ND	.61	4.85	36.40	FDC655BNTR-ND	3,000	171.00/M
	P-Chan.	30	0.036	10	4.9	1.6	Dual	FDC610PZCT-ND	.61	4.85	36.40	FDC610PZTR-ND	3,000	171.00/M
	P-Chan.	30	0.14	10	1.8	0.96	Dual	FDC6506PCT-ND	.75	6.01	45.05	FDC6506PTR-ND	3,000	212.00/M
	P-Chan.	35	0.045	10	4.3	1.6	Dual	FDC365PCT-ND	1.14	10.20	81.00	FDC365PTR-ND	3,000	420.00/M
	P-Chan.	50	5	10	0.22	0.5	Dual	NDC7003PCT-ND	.71	5.68	42.64	NDC7003PTR-ND	3,000	200.00/M
	P-Chan.	60	0.082	10	3	1.6	Single	FDC5614PCT-ND	.92	7.98	63.00	FDC5614PTR-ND	3,000	305.00/M
	N-Chan. P-Chan.	20 20	0.8 0.17	4.5 4.5	1.9	—	Dual	FDC6327CCT-ND	.61	4.85	36.40	FDC6327CTR-ND	3,000	171.00/M
	N-Chan. P-Chan.	20 20	0.07 0.125	4.5 4.5	3.0 2.2	0.96	Dual	FDC6420CCT-ND	.76	6.10	45.74	FDC6420CTR-ND	3,000	215.00/M
	N-Chan. P-Chan.	25 25	0.45 1.1	4.5 4.5	2.0 1.5	0.9	Dual	FDC6321CCT-ND	.71	5.68	42.64	FDC6321CTR-ND	3,000	200.00/M
	N-Chan. P-Chan.	30 30	0.073 0.095	10 10	2.5 2.0	0.9	Single	FDC6333CCT-ND	.61	4.85	36.40	FDC6333CTR-ND	3,000	171.00/M
	N-Chan. P-Chan.	50 50	2 5	10 10	0.35 0.22	0.5	Compl.	NDC7001CCT-ND	.75	6.01	45.05	NDC7001CTR-ND	3,000	212.00/M
Power MOSFET (SO-8)														
3	N-Chan.	20	0.004	4.5	16	2.5	Single	FDS6574ACT-ND◆	1.60	14.28	113.40	FDS6574ATR-ND◆	2,500	588.00/M
	N-Chan.	20	0.0106	10	7.5	1.6	Dual	FDS6911CT-ND◆	1.38	12.32	97.82	FDS6911TR-ND◆	2,500	507.00/M
	N-Chan.	30	0.0033	10	21	2.5	Single	FDS8670CT-ND◆	1.76	15.12	123.48	FDS8670TR-ND◆	2,500	680.00/M
	N-Chan.	30	0.0038	10	18	2.5	Single	FDS8672SCT-ND◆	1.80	16.07	127.58	FDS8672STR-ND◆	2,500	662.00/M
	N-Chan.	30	0.0063	10	14	2.5	Single	FDS8690CT-ND◆	.96	8.57	68.04	FDS8690TR-ND◆	2,500	353.00/M
	N-Chan.	30	0.008	10	13	2.5	Single	FDS6670ACT-ND◆	1.48	13.21	104.90	FDS6670ATR-ND◆	2,500	544.00/M
	N-Chan.	30	0.0082	10	9	1.47	Single	FDS6692ACT-ND◆	.92	7.98	63.00	FDS6692ATR-ND◆	2,500	305.00/M
	N-Chan.	30	0.0095	10	12.5	2.5	Single	FDS6680ACT-ND◆	.96	8.57	68.04	FDS6680ATR-ND◆	2,500	353.00/M
	N-Chan.	30	0.011	10	10.2	2.5	Single	FDS8878CT-ND◆	.69	5.99	47.25	FDS8878TR-ND◆	2,500	228.00/M
	N-Chan.	30	0.0132	10	9	2.5	Single	FDS8882CT-ND◆	.97	8.38	66.15	FDS8882TR-ND◆	2,500	320.00/M
	N-Chan.	30	0.019	10	8.5	2.5	Single	FDS8884CT-ND◆	.69	5.54	41.58	FDS8884TR-ND◆	2,500	195.00/M
	N-Chan.	30	0.019	10	7	1.6	Dual	FDS8984CT-ND◆	.83	7.18	56.70	FDS8984TR-ND◆	2,500	274.00/M
	N-Chan.	30	0.031	10	5.5	2.0	Dual	FDS6930BCT-ND◆	.85	7.38	58.29	FDS6930BTR-ND◆	2,500	282.00/M
	N-Chan.	30	0.037	10	5.3	2.0	Dual	NDS8936CT-ND◆	1.41	12.60	100.09	NDS8936TR-ND◆	2,500	519.00/M
	N-Chan.	30	0.05	10	5	2.0	Dual	NDS9936CT-ND◆	1.12	10.00	79.38	NDS9936TR-ND◆	2,500	412.00/M
	N-Chan.	30	0.075	10	3.7	2.0	Dual	NDS9956ACT-ND◆	.99	8.89	70.61	NDS9956ATR-ND◆	2,500	366.00/M
	N-Chan.	40	0.0043	10	18	2.5	Single	FDS8638CT-ND◆	1.75	15.00	122.50	FDS8638TR-ND◆	2,500	675.00/M
	N-Chan.	40	0.007	10	14.9	2.5	Single	FDS8842NZCT-ND◆	1.06	9.18	72.45	FDS8842NZTR-ND◆	2,500	350.00/M
	N-Chan.	40	0.009	10	12.8	2.5	Single	FDS8447CT-ND◆	1.26	11.25	89.32	FDS8447TR-ND◆	2,500	463.00/M
	N-Chan.	40	0.01	10	13	3.9	Single	FDS4080N7CT-ND◆	2.03	17.37	141.86	—	—	—
	N-Chan.	40	0.01	4.5	11	2.5	Single	FDS4672ACT-ND◆	1.28	11.42	90.72	FDS4672ATR-ND◆	2,500	470.00/M
	N-Chan.	40	0.021	10	7.6	2.5	Single	FDS8449CT-ND◆	.68	5.91	46.62	FDS8449TR-ND◆	2,500	225.00/M
	N-Chan.	40	0.021	10	6	1.6	Dual	FDS8949CT-ND◆	1.02	8.78	69.30	FDS8949TR-ND◆	2,500	335.00/M
	N-Chan.	100	0.019	10	7.5	2.5	Single	FDS3672CT-ND◆	1.76	15.71	124.74	FDS3672TR-ND◆	2,500	647.00/M
	N-Chan.	100	0.026	10	6.7	3.0	Single	FDS3170N7CT-ND◆	2.63	22.50	183.75	—	—	—
	N-Chan.	200	0.059	10	3.9	2.5	Single	FDS2672CT-ND◆	1.91	16.38	133.77	FDS2672TR-ND◆	2,500	737.00/M
	N-Chan.	250	0.097	10	3	2.5	Single	FDS2734CT-ND◆	2.13	18.27	149.21	FDS2734TR-ND◆	2,500	822.00/M
	P-Chan.	20	0.01	10	3.5	2.0	Dual	NDS9947CT-ND◆	1.53	13.71	108.86	NDS9947TR-ND◆	2,500	564.00/M
	P-Chan.	20	0.01	10	4.3	2.5	Single	NDS9405CT-ND	1.96	16.78	137.06	—	—	—
	P-Chan.	20	0.035	4.5	6.7	2.5	Single	NDS8434CT-ND◆	1.50	13.39	106.33	NDS8434TR-ND◆	2,500	551.00/M
	P-Chan.	20	0.125	10	3.3	1.6	Mosfet w/ Diode	FDFS2P102ACT-ND◆	.60	5.22	41.23	FDFS2P102ATR-ND◆	2,500	199.29/M
	P-Chan.	30	0.0077	10	13	2.5	Single	FDS6679AZCT-ND◆	1.36	12.14	96.39	FDS6679AZTR-ND◆	2,500	500.00/M
	P-Chan.	30	0.016	10	8.8	2.5	Single	FDS4435BZCT-ND◆	.92	7.98	63.00	FDS4435BZTR-ND◆	2,500	305.00/M
	P-Chan.	30	0.018	10	6.9	1.6	Dual	FDS4935BZCT-ND◆	1.00	8.93	70.88	FDS4935BZTR-ND◆	2,500	368.00/M
	P-Chan.	30	0.05	10	5.3	2.5	Single	NDS9435ACT-ND◆	.86	7.46	58.92	NDS9435ATR-ND◆	2,500	285.00/M
	P-Chan.	30	0.06	10	5.3	2.5	Single	NDS9430CT-ND◆	1.24	11.14	88.45	NDS9430TR-ND◆	2,500	459.00/M
	P-Chan.	30	0.065	10	4	2.0	Dual	NDS8947CT-ND◆	1.83	15.72	128.38	NDS8947TR-ND◆	2,500	707.00/M
	P-Chan.	30	0.13	10	2.9	2.0	Dual	NDS9953ACT-ND◆	1.29	11.53	91.58	NDS9953ATR-ND◆	2,500	475.00/M
	P-Chan.	30	0.13	10	3.6	2.5	Single	NDS9400ACT-ND◆	1.30	11.60	92.15	NDS9400ATR-ND◆	2,500	478.00/M
	P-Chan.	30	0.069	10	3	1.6	Mosfet w/ Diode	FDFS2P753ZCT-ND◆	.78	6.24	46.79	FDFS2P753ZTR-ND◆	2,500	220.00/M
	P-Chan.	30	0.0065	10	14.5	2.5	Mosfet w/ Diode	FDS6673BZCT-ND◆	1.35	12.07	95.82	FDS6673BZTR-ND◆	2,500	497.00/M
	P-Chan.	30	0.0108	10	11	2.5	Mosfet w/ Diode	FDS6675BZCT-ND◆	1.28	10.21	70.88	FDS6675BZTR-ND◆	2,500	377.06/M
	P-Chan.	40	0.022	10	8.2	2.5	Mosfet w/ Diode	FDS4685CT-ND◆ ***NEW!***	.96	8.57	68.04	FDS4685TR-ND◆ ***NEW!***	2,500	353.00/M
	P-Chan.	40	0.01	10	11	2.4	Single	FDS4675CT-ND◆	2.28	19.53	159.50	FDS4675TR-ND◆	2,500	879.00/M
	P-Chan.	40	0.013	10	10.8	5	SO-8	FDS4141CT-ND◆	1.99	17.07	139.39	FDS4141TR-ND◆	2,500	485.00/M
	P-Chan.	60	0.082	10	2.9	2.0	Dual	FDS9958CT-ND◆	1.20	10.71	85.05	FDS9958TR-ND◆	2,500	441.00/M
	P-Chan.	60	0.11	10	3	1.6	Mosfet w/ Diode	FDFS2P106ACT-ND◆	2.10	17.99	146.90	FDFS2P106ATR-ND◆	2,500	809.00/M
	P-Chan.	60	0.15	10	3	2.5	Single	NDS9407CT-ND◆	.96	8.57	68.04	NDS9407TR-ND◆	2,500	353.00/M
	P-Chan.	60	0.25	10	2.3	2.0	Dual	NDS9948CT-ND◆	1.24	11.07	87.89	NDS9948TR-ND◆	2,500	456.00/M
	N-Chan. P-Chan.	30 30	0.21 0.38	10 10	6.4 4.5	1.6 0.9	Single	FDS8958BCT-ND◆	.69	5.99	47.25	FDS8958BTR-ND◆	2,500	228.00/M
PowerTrench® SyncFET™ (SO-8) — RoHS Compliant														
3	N-Chan.	20	0.0075	4.5	15	2.5	Single	FDS6570ACT-ND	1.84	15.75	128.63	FDS6570ATR-ND	2,500	709.00/M
	N-Chan.	20	0.018	4.5	7.5	2	Dual	FDS6890ACT-ND	1.98	17.01	138.92	FDS6890ATR-ND	2,500	765.00/M
	N-Chan.	20	0.018	4.5	7.5	2	Dual	FDS6892ACT-ND	1.20	10.71	85.05	FDS6892ATR-ND	2,500	441.00/M

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out *(Continued)*

Fig. 4 — SOT-223

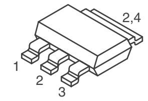

Fig. 5 — SOT-323

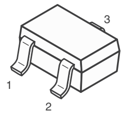

Fig. 6 — SOT-523F, SC89-3

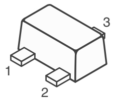

Fig. 7 — SOT-563F

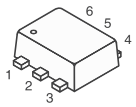

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

FAIRCHILD SEMICONDUCTOR®

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Digi-Reel®

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig.	Type	VDS (V)	RDS (on) Ω	RDS (on) @ Volt.	ID (A)	PD (W)	Configuration	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
3	N-Chan.	20	0.014	4.5	9.4	2	Dual	FDS6898AZCT-ND	1.40	12.50	99.23	FDS6898AZTR-ND	2,500	515.00/M
	N-Chan.	30	0.0113	10	13	3	Single	FDS6294CT-ND	1.08	9.64	76.55	FDS6294TR-ND	2,500	397.00/M
	N-Chan.	30	0.038	10	6.5	2.5	Single	FDS6630ACT-ND	.68	5.87	46.32	FDS6630ATR-ND	2,500	224.00/M
	N-Chan.	30	0.022	10	7.5	1.6	Dual	FDS6990ASCT-ND	1.35	12.07	95.82	FDS6990ASTR-ND	2,500	497.00/M
	N-Chan.	30	0.013	10	7.5	1.6	Dual	FDS6910CT-ND	1.32	11.78	93.56	FDS6910TR-ND	2,500	485.00/M
	N-Chan.	30	0.09	10	3.5	2	Dual	FDS6961ACT-ND	.77	6.67	52.62	FDS6961ATR-ND	2,500	254.00/M
	N-Chan.	30	0.01	10	11.6	2.5	Single	FDS8880CT-ND	.91	7.82	61.74	FDS8880TR-ND	2,500	298.00/M
	N-Chan.	30	0.0074	10	13	3.0	Single	FDS6298CT-ND	1.23	11.00	87.32	FDS6298TR-ND	2,500	453.00/M
	N-Chan.	40	0.0039	10	18.6	2.5	Single	FDS8840NZCT-ND ***NEW!***	1.37	12.29	97.58	FDS8840NZTR-ND ***NEW!***	2,500	588.00/M
	N-Chan.	60	0.010	10	12	2.5	Single	FDS5672CT-ND	1.76	15.12	123.48	FDS5672TR-ND	2,500	680.00/M
	N-Chan.	60	0.035	10	6.1	5	Single	FDS5351CT-ND	1.02	8.78	69.30	FDS5351TR-ND	2,500	335.00/M
	P-Chan.	20	0.046	4.5	4.9	1.6	Dual	FDS9933BZCT-ND	1.01	9.07	72.02	FDS9933BZTR-ND	2,500	456.00/M
	P-Chan.	20	0.13	4.5	3.5	2.5	Single	FDS9431ACT-ND	.69	5.99	47.25	FDS9431ATR-ND	2,500	228.00/M
	P-Chan.	20	0.075	4.5	3.8	2	Dual	FDS9933ACT-ND	.99	8.89	70.61	FDS9933ATR-ND	2,500	366.00/M
	P-Chan.	30	0.055	10	5	2	Dual	FDS4953CT-ND	1.00	8.93	70.88	FDS4953TR-ND	2,500	368.00/M
	N-Chan. P-Chan.	30 30	0.030 0.052	10 10	7 5	2 2	Dual	FDS8962CCT-ND	.92	7.98	63.00	FDS8962CTR-ND	2,500	305.00/M
Power MOSFET (SO-8) (Complementary N-P Channel 3 Phase Brushless Motor Driver) — RoHS Compliant														
3	N-Chan. P-Chan.	30 30	0.08 0.13	10 10	4 2.9	2.0	Compl.	NDS9952ACT-ND	1.08	9.68	76.84	NDS9952ATR-ND	2,500	398.00/M
Power MOSFET (SO-8) (Complementary MOSFETS Half Bridge) — RoHS Compliant														
3	N-Chan.	20	0.01	4.5	9.4	2	Dual	FDS6898ACT-ND	1.44	12.85	102.06	FDS6898ATR-ND	2,500	529.00/M
	N-Chan.	20	0.025	4.5	6.5	2	Dual	FDS9926ACT-ND	.72	6.19	48.84	FDS9926ATR-ND	2,500	236.00/M
	N-Chan.	30	0.004	10	20	1	Single	FDS8812NZCT-ND	1.63	14.62	116.10	FDS8812NZTR-ND	2,500	602.00/M
	N-Chan.	30	0.0045	10	18.5	1	Single	FDS8813NZCT-ND	1.47	13.12	104.19	FDS8813NZTR-ND	2,500	540.00/M
	N-Chan.	30	0.007	10	15	1	Single	FDS8817NZCT-ND	1.05	9.37	74.41	FDS8817NZTR-ND	2,500	386.00/M
	N-Chan.	30	0.0085	10	11.5	2.5	Single	FDS6680CT-ND	1.34	11.96	94.99	FDS6680TR-ND	2,500	493.00/M
	N-Chan.	30	0.0098	10	11	2.5	Single	FDS6690ACT-ND	.97	8.38	66.15	FDS6690ATR-ND	2,500	320.00/M
	N-Chan.	30	0.011	10	7.5	1.6	Dual	FDS6990ACT-ND	1.21	10.85	86.18	FDS6990ATR-ND	2,500	447.00/M
	N-Chan.	30	0.012	10	8.6	2	Dual	FDS6982CT-ND	1.32	11.78	93.56	FDS6982TR-ND	2,500	485.00/M
	N-Chan.	30	0.0135	10	6.3	0.9	Dual	FDS6982ASCT-ND	1.00	8.93	70.88	FDS6982ASTR-ND	2,500	368.00/M
	N-Chan.	30	0.019	10	6	1.6	Dual	FDS6912ACT-ND	.88	7.58	59.85	FDS6912ATR-ND	2,500	289.00/M
	N-Chan.	30	0.019	10	8.4	2.5	Single	FDS6612ACT-ND	.85	7.38	58.29	FDS6612ATR-ND	2,500	282.00/M
	N-Chan.	30	0.023	10	7	1.6	Dual	FDFS6N548CT-ND	1.07	9.22	72.78	FDFS6N548TR-ND	2,500	352.00/M
	N-Chan.	30	0.03	4.5	5.5	0.9	Dual	FDS8926ACT-ND	1.69	15.10	119.93	FDS8926ATR-ND	2,500	622.00/M
	N-Chan.	30	0.032	10	5.5	2	Dual	FDS6930ACT-ND	.95	8.22	64.89	FDS6930ATR-ND	2,500	314.00/M
	N-Chan.	60	0.012	10	10	2.5	Single	FDS5670CT-ND	2.09	17.96	146.63	FDS5670TR-ND	2,500	808.00/M
	N-Chan.	60	0.02	10	8	1	Single	FDS5680CT-ND	1.90	16.96	134.68	FDS5680TR-ND	2,500	698.00/M
	N-Chan.	60	0.1	10	3.5	1	Single	FDS9945CT-ND	.88	7.58	59.85	FDS9945TR-ND	2,500	289.00/M
	N-Chan.	80	0.044	10	4.7	0.9	Dual	FDS3890CT-ND	1.81	16.21	128.71	FDS3890TR-ND	2,500	667.00/M
	N-Chan.	100	0.05	10	4.5	2.5	Single	FDS3692CT-ND	1.17	10.42	82.78	FDS3692TR-ND	2,500	429.00/M
	N-Chan.	100	0.054	10	4.5	2.5	Dual	FDS3992CT-ND	1.91	16.35	133.53	FDS3992TR-ND	2,500	736.00/M
	N-Chan.	150	0.04	10	4.9	2.5	Single	FDS2572CT-ND	1.84	16.42	130.41	FDS2572TR-ND	2,500	676.00/M
	N-Chan.	200	0.13	10	3	1	Single	FDS2670CT-ND	1.80	15.44	126.05	FDS2670TR-ND	2,500	695.00/M
	P-Chan.	20	0.0067	4.5	13.5	2.5	Single	FDS4465CT-ND	1.48	13.21	104.90	FDS4465TR-ND	2,500	544.00/M
	P-Chan.	20	0.013	4.5	10	1.2	Single	FDS6575CT-ND	1.73	15.46	122.77	FDS6575TR-ND	2,500	637.00/M
	P-Chan.	20	0.014	4.5	8	2.5	Single	FDS6375CT-ND	.97	8.38	66.15	FDS6375TR-ND	2,500	320.00/M
	P-Chan.	20	0.024	4.5	6	2	Dual	FDS6875CT-ND	1.34	12.00	95.26	FDS6875TR-ND	2,500	494.00/M
	P-Chan.	20	0.036	4.5	5	2.5	Single	FDS8433ACT-ND	.79	6.82	53.88	FDS8433ATR-ND	2,500	260.00/M
	P-Chan.	30	0.011	10	11	2.5	Single	FDS6675CT-ND	1.36	12.14	96.39	FDS6675TR-ND	2,500	500.00/M
	P-Chan.	30	0.015	10	8.8	2.5	Single	SI4435DYFSCT-ND	.88	7.58	59.85	SI4435DYFSTR-ND	2,500	289.00/M
	P-Chan.	30	0.019	10	7	1.6	Dual	FDS4935ACT-ND	1.25	11.21	89.02	FDS4935ATR-ND	2,500	462.00/M
	P-Chan.	30	0.025	10	6	2	Dual	FDS6975CT-ND	1.44	12.85	102.06	FDS6975TR-ND	2,500	529.00/M
	P-Chan.	30	0.042	10	5.3	2.5	Single	FDS9435ACT-ND	.72	6.19	48.84	FDS9435ATR-ND	2,500	236.00/M
	P-Chan.	30	0.0046	10	20	1	Single	FDS6681ZCT-ND	2.21	18.90	154.35	FDS6681ZTR-ND	2,500	851.00/M
	N-Chan. P-Chan.	30 30	0.037 0.065	10 10	6.3 4.8	2.5	Compl.	NDS8858HCT-ND	1.36	12.14	96.39	NDS8858HTR-ND	2,500	500.00/M
	N-Chan. P-Chan.	30 30	0.017 0.0205	10 10	8.6 7.3	2 0.9	Dual	FDS8858CZCT-ND	1.08	9.64	76.55	FDS8858CZTR-ND	2,500	397.00/M
	N-Chan. P-Chan.	30 30	0.019 0.042	10 10	7 5	2	Dual	FDS8958ACT-ND	.92	7.98	63.00	FDS8958ATR-ND	2,500	305.00/M
	N-Chan. P-Chan.	30 20	0.025 0.043	4.5 4.5	5.5 4	2	Dual	FDS8928ACT-ND	1.41	12.60	100.09	FDS8928ATR-ND	2,500	519.00/M
	N-Chan. P-Chan.	30 30	0.065 0.085	10 10	3.9 3.5	2 0.9	Dual	SI4532DYCT-ND	.80	6.94	54.81	SI4532DYTR-ND	2,500	265.00/M
	N-Chan. P-Chan.	35 35	0.020 0.044	10 10	7 5	2 2	Dual	FDS8960CCT-ND	1.12	10.00	79.38	FDS8960CTR-ND	2,500	412.00/M
	N-Chan. P-Chan.	40 40	0.021 0.037	10 10	6.2 4.4	2 2	Dual	FDS4897CCT-ND	.74	6.43	50.73	FDS4897CTR-ND	2,500	245.00/M
	N-Chan. P-Chan.	40 40	0.020 0.028	10 10	6.1 5.2	2.0 2.0	Dual	FDS4897ACCT-ND	.95	8.50	67.50	FDS4897ACTR-ND	2,500	350.00/M
	N-Chan. P-Chan.	60 60	0.055 0.105	10 10	4.5 3.5	2 1	Dual	FDS4559CT-ND	1.07	9.61	76.28	FDS4559TR-ND	2,500	396.00/M
8-SOP — RoHS Compliant														
3	N-Chan.	400	3.2	10	0.45	2.0	Dual	FQS4901TFCT-ND	1.11	9.92	78.81	FQS4901TFTR-ND	3,000	409.00/M
PowerSOT (SOT-223) — RoHS Compliant														
4	N-Chan.	30	0.045	4.5	6.3	3	Single	FDT439NCT-ND	.87	7.54	59.55	FDT439NTR-ND	2,500	288.00/M
	N-Chan.	30	0.043	10	5	3	Single	FDT457NCT-ND	.69	5.54	41.58	FDT457NTR-ND	2,500	195.00/M
	N-Chan.	60	0.12	10	3.7	3.0	Single	NDT3055CT-ND	.81	6.47	48.51	NDT3055TR-ND	2,500	228.00/M
	N-Chan.	60	0.15	4.5	3.5	3.0	Single	NDT3055LCT-ND	.69	5.99	47.25	NDT3055LTR-ND	2,500	228.00/M
	N-Chan.	100	0.275	10	1.7	2	Single	FQT7N10LTFCT-ND	.64	5.08	38.12	FQT7N10LTFTR-ND	4,000	179.00/M
	N-Chan.	100	0.2	10	2.3	2.4	Single	IRFM120ATFCT-ND	.74	6.38	50.40	IRFM120ATFTR-ND	4,000	244.00/M
	N-Chan.	100	0.28	10	1.7	2.0	Single	FQT7N10TFCT-ND	.68	5.45	40.89	FQT7N10TFTR-ND	4,000	192.00/M
	N-Chan.	600	9.3	10	0.2	2.1	Single	FQT1N60CTF_WSCT-ND	.79	6.33	47.49	FQT1N60CTF_WSTR-ND	4,000	223.00/M
	N-Chan.	800	15.5	10	0.2	2.1	Single	FQT1N80TF_WSCT-ND	.86	7.44	58.71	FQT1N80TF_WSTR-ND	4,000	284.00/M
	P-Chan.	20	0.05	4.5	6	3	Single	FDT434PCT-ND	.67	5.79	45.69	FDT434PTR-ND	2,500	221.00/M
	P-Chan.	30	0.035	10	7.3	3.0	Single	NDT456PCT-ND	1.84	15.75	128.63	NDT456PTR-ND	2,500	709.00/M
	P-Chan.	30	0.037	10	7.1	3.0	Single	NDT451ANCT-ND	1.04	9.02	71.19	NDT451ANTR-ND	2,500	344.00/M
	P-Chan.	30	0.065	10	5.0	3.0	Single	NDT452APCT-ND	1.00	8.93	70.88	NDT452APTR-ND	2,500	368.00/M
	P-Chan.	60	0.3	10	2.5	3.0	Single	NDT2955CT-ND	.78	6.24	46.79	NDT2955TR-ND	2,500	220.00/M
	P-Chan.	100	0.82	10	1.0	2.0	Single	FQT5P10TFCT-ND	.66	5.32	39.86	FQT5P10TFTR-ND	4,000	187.00/M
SOT-323 — RoHS Compliant														
5	N-Chan.	60	1.6	5	1.43	0.2	Single	2N7002WCT-ND	.55	3.94	23.64	2N7002WTR-ND	3,000	79.00/M
SOT-523F — RoHS Compliant														
6	N-Chan.	20	0.24	4.5	0.600	0.625	Single	FDY300NZCT-ND	.52	4.16	31.19	FDY300NZTR-ND	3,000	146.00/M
	N-Chan.	20	5	4.5	0.200	0.625	Single	FDY301NZCT-ND	.56	3.94	26.25	FDY301NZTR-ND	3,000	95.00/M

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out *(Continued)*

Fig. 8 — TO-220AB

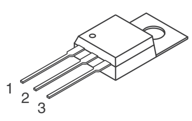

Fig. 9 — TO-92

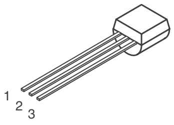

Cut Tape and Tape Reel lead spacing is 2.54mm

Fig. 10 — TO-262AB

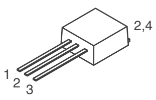

Fig. 11 — TO-247

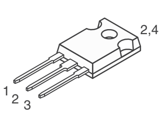

FAIRCHILD SEMICONDUCTOR®

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Digi-Reel® ***Multiple pinout configurations available, see Digi-Key web site for data sheet.***

Fig.	Type	VDS (V)	RDS (on)		ID (A)	PD (W)	Config-uration	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			Ω	@ Volt.					1	10	100		Qty.	Pricing
6	N-Chan.	60	1.6	5	115	200	Single	2N7002TCT-ND	.51	3.62	24.15	2N7002TTR-ND	3,000	87.00/M
	N-Chan.	60	7.5	—	0.28	—	Single	2N7002VACT-ND	.48	3.77	25.82	2N7002VATR-ND	3,000	109.00/M
	N-Chan.	60	7.5	—	0.28	—	Single	2N7002VCT-ND	.48	3.77	25.82	2N7002VTR-ND	3,000	109.00/M
	P-Chan.	20	0.5	4.5	.350	0.625	Single	FDY100PZCT-ND	.62	4.41	26.46	FDY100PZTR-ND	3,000	88.00/M
SC89-3 — RoHS Compliant														
6	P-Chan.	20	0.008	4.5	0.150	0.625	Single	FDY101PZCT-ND	.50	3.55	23.65	FDY101PZTR-ND	3,000	95.00/M
	P-Chan.	20	0.28	4.5	0.830	0.625	Single	FDY102PZCT-ND	.50	3.55	23.65	FDY102PZTR-ND	3,000	85.00/M
SOT-563F — RoHS Compliant														
7	N-Chan.	20	0.25	4.5	0.600	0.625	Dual	FDY3000NZCT-ND	.46	3.65	25.00	FDY3000NZTR-ND	3,000	106.00/M
Through-Hole Power MOSFET (TO-220AB)														
8	N-Chan.	30	0.012	10	40	40.5	Single	FDP8878-ND◆†	.92	8.14	64.31	—	—	—
	N-Chan.	30	0.0019	10	80	254	Single	FDP8860-ND◆†	2.44	22.05	177.19	—	—	—
	N-Chan.	40	0.0021	10	80	300	Single	FDP8441-ND◆†	2.87	25.88	207.95	—	—	—
	N-Chan.	50	—	—	0.03	75	Single	BUZ11_NR4941-ND◆† ***NEW!***	1.04	9.18	72.52	—	—	—
	N-Chan.	50	0.015	10	75	150	Single	NDP7050-ND†	7.79	70.07	576.09	—	—	—
	N-Chan.	55	0.028	10	35	93	Single	HUF75321P3-ND◆†	1.03	9.08	71.79	—	—	—
	N-Chan.	55	0.01	10	75	200	Single	HUF75339P3-ND◆†	1.73	15.30	120.91	—	—	—
	N-Chan.	55	0.006	10	75	325	Single	HUF75345P3-ND◆†	2.51	22.64	181.91	—	—	—
	N-Chan.	60	0.014	10	70	150	Single	RFP70N06-ND◆†	1.73	15.58	125.21	—	—	—
	N-Chan.	60	0.0035	10	80	310	Single	FDP038AN06A0-ND◆†	3.82	34.13	279.83	—	—	—
	N-Chan.	60	0.022	10	50	131	Single	RFP50N06-ND◆†	1.51	13.35	105.47	—	—	—
	N-Chan.	60	0.047	2.5	30	96	Single	RFP30N06LE-ND◆†	1.09	9.63	76.15	—	—	—
	N-Chan.	60	0.025	10	48	100	Single	NDP6060-ND◆†	1.79	16.14	129.71	—	—	—
	N-Chan.	60	0.025	2.7	48	100	Single	NDP6060L-ND◆†	1.79	16.17	129.94	—	—	—
	N-Chan.	60	0.015	10	75	150	Single	NDP7060-ND◆†	2.84	25.39	208.16	—	—	—
	N-Chan.	60	0.0043	10	80	245	Single	FDP050AN06A0-ND◆†	2.96	26.75	214.99	—	—	—
	N-Chan.	75	0.004	10	80	310	Single	FDP047AN08A0-ND◆†	4.09	36.49	299.20	—	—	—
	N-Chan.	80	0.01	10	75	270	Single	HUF75545P3-ND◆†	3.10	27.96	224.69	—	—	—
	N-Chan.	100	0.2	2.5	12	60	Single	RFP12N10L-ND◆†	.89	7.88	62.25	—	—	—
	N-Chan.	100	0.015	10	80	255	Single	FDP3651U-ND◆†	2.45	22.15	178.00	—	—	—
	N-Chan.	100	0.0075	10	80	310	Single	FDP3632-ND◆†	3.62	32.29	264.76	—	—	—
	N-Chan.	100	0.021	10	56	200	Single	HUF75639P3-ND◆†	1.92	17.35	139.39	—	—	—
	N-Chan.	100	0.0115	10	75	310	Single	HUF75645P3-ND◆†	2.93	26.46	212.63	—	—	—
	N-Chan.	100	0.014	10	61	150	Single	FDP3652-ND◆†	2.29	20.72	166.50	—	—	—
	N-Chan.	105	0.025	10	41	135	Single	FDP3672-ND◆†	1.68	15.14	121.68	—	—	—
	N-Chan.	150	0.014	10	79	310	Single	FDP2532-ND◆†	3.76	33.60	275.52	—	—	—
Through-Hole Power MOSFET (TO-92) — RoHS Compliant														
9	N-Chan.	25	—	—	0.01	0.625	Single	J310-ND†	.47	3.36	19.77	—	—	—
	N-Chan.	25	—	—	0.05	0.350	Single	2N3819-ND†	.62	4.26	19.88	—	—	—
	N-Chan.	30	—	—	0.1	0.350	Single	BF245BFS-ND† ***NEW!***	.64	4.35	20.30	—	—	—
	N-Chan.	30	—	—	—	0.350	Single	BF245CFS-ND†	.64	4.35	20.30	—	—	—
	N-Chan.	30	30	—	0.5	—	Single	PN4392FS-ND†	.42	3.02	17.76	—	—	—
	N-Chan.	35	30	0.1	0.05	0.625	Single	J111FS-ND†	.47	3.37	19.82	—	—	—
	N-Chan.	35	50	0.1	0.05	0.625	Single	J112FS-ND†	.47	3.37	19.82	—	—	—
	N-Chan.	40	—	—	0.05	0.625	Single	J201-ND†	.42	3.03	17.86	—	—	—
	N-Chan.	60	5	10	0.2	0.4	Single	2N7000FS-ND†	.42	3.02	17.81	—	—	—
	N-Chan.	60	1.2	10	0.2	0.4	Single	2N7000_D26ZCT-ND ***NEW!***	.68	4.64	21.84	2N7000_D26ZTR-ND ***NEW!***	2,000	64.00/M
	N-Chan.	60	5	10	0.5	0.83	Single	BS170-ND†	.45	3.21	18.92	—	—	—
	N-Chan.	60	1.2	10	0.5	0.83	Single	BS170_D27ZCT-ND	.50	3.57	21.42	BS170_D27ZTR-ND	2,000	71.00/M
	N-Chan.	60	1.2	10	0.5	0.83	Single	BS170_D75ZCT-ND	.50	3.57	21.42	BS170_D75ZTB-ND▲	2,000	71.40/M
	N-Chan.	500	4.6	10	0.38	0.89	Single	FQN1N50CTACT-ND	.52	4.13	30.99	FQN1N50CTATB-ND▲	2,000	145.55/M
	N-Chan.	600	9.3	10	0.3	1	Single	FQN1N60CTACT-ND	.54	4.28	32.11	FQN1N60CTATB-ND▲	2,000	150.82/M
	P-Chan.	30	85	0.1	0.05	0.35	Single	J175FS-ND†	.40	3.15	21.60	—	—	—
	P-Chan.	30	125	0.1	0.05	0.35	Single	J176FS-ND†	.40	3.15	21.60	—	—	—
TO-262AB — RoHS Compliant														
10	N-Chan.	40	0.0022	10	80	300	Single	FDI8441-ND†	2.93	26.44	212.45	—	—	—
	N-Chan.	60	0.0019	10	265	395	Single	FDI025N06-ND†	5.03	44.95	368.59	—	—	—
TO-247 — RoHS Compliant														
11	N-Chan.	55	0.0065	10	75	285	Single	HUF75344G3-ND†	2.96	26.70	214.52	—	—	—
	N-Chan.	55	0.007	10	75	325	Single	HUF75345G3-ND†	3.61	32.26	264.55	—	—	—
	N-Chan.	100	0.008	10	75	515	Single	HUF75652G3-ND†	6.64	59.33	486.47	—	—	—
	N-Chan.	500	0.11	10	44	750	Single	FDH44N50-ND†	9.18	82.59	679.10	—	—	—
	N-Chan.	1000	1.45	10	8	225	Single	FQH8N100C-ND†	4.03	35.96	294.89	—	—	—
D-PAK (TO-252, TO-252AA) — RoHS Compliant														
12	N-Chan.	20	0.004	10	35	77	Single	FDD8586CT-ND	.90	7.74	61.11	FDD8586TR-ND	2,500	295.00/M
	N-Chan.	20	0.0066	10	35	49.5	Single	FDD8580CT-ND	.67	5.75	45.36	FDD8580TR-ND	2,500	219.00/M
	N-Chan.	25	0.0033	10	35	115	Single	FDD8770CT-ND	1.67	14.92	118.50	FDD8770TR-ND	2,500	614.00/M
	N-Chan.	25	0.0040	10	50	50	Single	FDD6770ACT-ND	1.21	10.83	85.96	FDD6770ATR-ND	2,500	500.00/M
	N-Chan.	25	0.0045	10	35	88	Single	FDD8796CT-ND	.92	7.98	63.00	FDD8796TR-ND	2,500	305.00/M
	N-Chan.	25	0.0057	10	20	—	Single	FDD6796ACT-ND	.98	8.78	69.70	FDD6796ATR-ND	2,500	412.00/M
	N-Chan.	25	0.0065	10	35	50	Single	FDD8780CT-ND	.83	7.18	56.70	FDD8780TR-ND	2,500	274.00/M
	N-Chan.	25	0.0075	10	—	—	Single	FDD6776ACT-ND	.92	8.19	65.05	FDD6776ATR-ND	2,500	382.00/M
	N-Chan.	25	0.0085	10	35	50	Single	FDD8782CT-ND	.79	6.78	53.55	FDD8782TR-ND	2,500	259.00/M
	N-Chan.	25	0.0085	10	16.5	33	Single	FDD6780CT-ND	.73	6.30	49.74	—	—	—
	N-Chan.	25	0.0086	10	30	32.6	Single	FDD6780ACT-ND	.88	7.90	62.73	FDD6780ATR-ND	2,500	353.00/M
	N-Chan.	25	0.0105	10	14.9	—	Single	FDD6782ACT-ND	.87	7.75	61.57	FDD6782ATR-ND	2,500	353.00/M
	N-Chan.	25	0.0116	10	35	39	Single	FDD8778CT-ND	.69	5.54	41.58	FDD8778TR-ND	2,500	195.00/M
	N-Chan.	25	0.0140	10	10	24	Single	FDD6778ACT-ND	.82	7.31	58.08	FDD6778ATR-ND	2,500	350.00/M
	N-Chan.	30	0.0077	10	12	56	Single	FDD6690ACT-ND	1.23	10.96	87.05	FDD6690ATR-ND	2,500	451.00/M
	N-Chan.	30	0.028	10	21	28	Single	FDD6630ACT-ND	.74	6.38	50.40	FDD6630ATR-ND	2,500	244.00/M
	N-Chan.	35	0.0082	10	15	55	Single	FDD6635CT-ND	.97	8.64	68.61	FDD6635TR-ND	2,500	356.00/M
	N-Chan.	40	0.004	10	20	153	Single	FDD8444CT-ND	1.68	14.99	119.07	FDD8444TR-ND	2,500	617.00/M
	N-Chan.	40	0.004	10	20	153	Single	FDD8444_F085CT-ND	2.32	19.85	162.07	FDD8444_F085TR-ND	2,500	893.00/M
	N-Chan.	40	0.0058	10	16.4	65	Single	FDD8453LZCT-ND	1.35	12.08	95.95	FDD8453LZTR-ND	2,500	360.00/M
	N-Chan.	40	0.0067	10	70	79	Single	FDD8445CT-ND	1.12	10.00	79.38	FDD8445TR-ND	2,500	412.00/M
	N-Chan.	40	0.007	10	15.2	45	Single	FDD8447LCT-ND	1.08	9.64	76.55	FDD8447LTR-ND	2,500	397.00/M
	N-Chan.	40	0.009	10	—	—	Single	FDD8647LCT-ND	1.00	8.93	70.88	FDD8647LTR-ND	2,500	368.00/M
	N-Chan.	40	0.019	10	9	37	Single	FDD8451CT-ND	1.06	9.18	72.45	FDD8451TR-ND	2,500	350.00/M
	N-Chan.	50	0.047	2.5	16	60	Single	RFD16N05LSM-ND†	1.07	9.44	74.60	—	—	—
	N-Chan.	50	0.047	5	16	60	Single	RFD16N05LSM9ACT-ND	1.26	11.25	89.32	RFD16N05LSM9ATR-ND	2,500	463.00/M
	N-Chan.	50	0.047	10	16	72	Single	RFD16N05SM9ACT-ND	.97	8.65	68.66	RFD16N05SM9ATR-ND	2,500	356.00/M
	N-Chan.	50	0.1	10	14	48	Single	RFD14N05SM9ACT-ND	.87	7.54	59.55	RFD14N05SM9ATR-ND	2,500	288.00/M
	N-Chan.	50	0.1	10	14	48	Single	RFD14N05SM-ND†	.76	6.63	51.17	—	—	—

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out *(Continued)*

Fig. 12 — D-PAK (TO-252, TO-252AA)

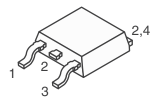

Fig. 13 — D²-PAK (TO-263AB)

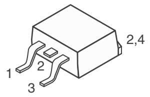

Fig. 14 — TO-3P, TO-3PN

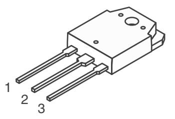

Fig. 15 — TO-220

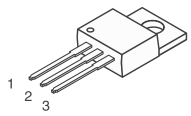

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig.	Type	VDS (V)	RDS (on)		ID (A)	PD (W)	Config-uration	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			Ω	@ Volt.					1	10	100		Qty.	Pricing
12	N-Chan.	50	0.1	2.5	14	48	Single	RFD14N05LSM-ND†	.81	7.13	55.00	—	—	—
	N-Chan.	50	0.1	5	14	48	Single	RFD14N05LSM9ACT-ND	1.06	9.14	72.15	RFD14N05LSM9ATR-ND	2,500	349.00/M
	N-Chan.	60	0.0094	10	50	135	Single	FDD10AN06A0CT-ND	2.02	17.33	141.49	FDD10AN06A0TR-ND	2,500	780.00/M
	N-Chan.	60	0.0115	10	50	115	Single	FDD13AN06A0CT-ND	1.60	14.28	113.40	FDD13AN06A0TR-ND	2,500	588.00/M
	N-Chan.	60	0.0123	10	11.5	69	Single	FDD5353CT-ND	1.20	10.71	85.05	FDD5353TR-ND	2,500	441.00/M
	N-Chan.	60	0.0165	10	37	88	Single	FDD5810CT-ND	1.28	11.42	90.72	FDD5810TR-ND	2,500	470.00/M
	N-Chan.	60	0.027	10	30	50	Single	FDD5690CT-ND	1.52	13.64	108.30	FDD5690TR-ND	2,500	562.00/M
	N-Chan.	60	0.047	5	16	90	Single	RFD16N06LESM9ACT-ND	1.20	10.70	84.97	RFD16N06LESM9ATR-ND	2,500	441.00/M
	N-Chan.	60	0.107	5	11	38	Single	RFD3055LESM9ACT-ND	.83	7.16	56.55	RFD3055LESM9ATR-ND	2,500	273.00/M
	N-Chan.	60	0.18	5	12	48	Single	MTD3055VLCT-ND	1.12	10.00	79.38	MTD3055VLTR-ND	2,500	412.00/M
	N-Chan.	75	0.013	10	50	135	Single	FDD16AN08A0CT-ND	2.13	18.27	149.21	FDD16AN08A0TR-ND	2,500	822.00/M
	N-Chan.	100	0.024	10	44	135	Single	FDD3672CT-ND	1.76	15.12	123.48	FDD3672TR-ND	2,500	680.00/M
	N-Chan.	100	0.024	10	42	62	Single	FDD86102CT-ND ***NEW!***	1.60	14.28	113.40	FDD86102TR-ND ***NEW!***	2,500	588.00/M
	N-Chan.	100	0.0287	10	6.2	69	Single	FDD3860CT-ND	1.20	10.71	85.05	FDD3860TR-ND	2,500	441.00/M
	N-Chan.	100	0.032	10	32	95	Single	FDD3682CT-ND	1.32	11.78	93.56	FDD3682TR-ND	2,500	485.00/M
	N-Chan.	150	0.045	10	29	135	Single	FDD2572CT-ND	1.76	15.12	123.48	FDD2572TR-ND	2,500	680.00/M
	N-Chan.	200	0.6	10	4.5	40	Single	FDD6N20TMCT-ND	1.08	9.29	73.32	FDD6N20TMTR-ND	2,500	354.00/M
	N-Chan.	200	0.28	10	9	2.5	Single	FQD12N20LTMCT-ND	1.10	9.50	74.97	FQD12N20LTMTR-ND	2,500	362.00/M
	N-Chan.	200	0.58	10	5	43	Single	FDD7N20TMCT-ND	.66	5.71	45.06	FDD7N20TMTR-ND	2,500	218.00/M
	N-Chan.	250	0.22	10	16	160	Single	FQD16N25CTMCT-ND	1.28	11.42	90.72	FQD16N25CTMTR-ND	2,500	470.00/M
	N-Chan.	250	0.9	10	4.4	50	Single	FDD6N25TMCT-ND	.81	6.47	48.51	FDD6N25TMTR-ND	2,500	228.00/M
	N-Chan.	400	3.4	10	2	30	Single	FDD3N40TMCT-ND	.79	6.33	47.49	FDD3N40TMTR-ND	2,500	223.00/M
	N-Chan.	500	1.0	10	5.5	89	Single	FDD6N50FTMCT-ND	1.20	10.71	85.05	FDD6N50FTMTR-ND	2,500	441.00/M
	N-Chan.	500	0.76	10	6	89	Single	FDD6N50TM_WSCT-ND	1.11	9.97	79.14	FDD6N50TM_WSTR-ND	2,500	410.00/M
	N-Chan.	500	1.25	10	3.5	40	Single	FDD5N50FTM_WSCT-ND	1.08	9.37	73.95	FDD5N50FTM_WSTR-ND	2,500	357.00/M
	N-Chan.	600	0.385	10	9	92.6	Single	FCD9N60NTMCT-ND ***NEW!***	3.05	26.10	213.15	FCD9N60NTMTR-ND ***NEW!***	2,500	1175.00/M
	N-Chan.	600	2.5	10	2.8	2.5	Single	FQD5N60CTMCT-ND	1.08	9.34	73.71	FQD5N60CTMTR-ND	2,500	356.00/M
	N-Chan.	600	0.81	10	4.6	54	Single	FCD5N60TMCT-ND	1.41	12.65	100.44	FCD5N60TMTR-ND	2,500	521.00/M
	N-Chan.	600	0.53	10	7	83	Single	FCD7N60TMCT-ND	1.89	16.92	134.33	FCD7N60TMTR-ND	2,500	697.00/M
	N-Chan.	600	1.0	10	3.9	50	Single	FCD4N60TMCT-ND	1.27	11.40	90.53	FCD4N60TMTR-ND	2,500	469.00/M
	N-Chan.	800	4.9	10	1.8	2.5	Single	FQD2N80TMCT-ND	1.18	10.53	83.65	FQD2N80TMTR-ND	2,500	434.00/M
	N-Chan.	900	5.6	10	1.7	2.5	Single	FQD2N90TFCT-ND	1.24	11.14	88.45	FQD2N90TFTR-ND	2,000	459.00/M
	N-Chan.	1,000	9	10	1.6	2.5	Single	FQD2N100TMCT-ND	1.20	10.71	85.05	FQD2N100TMTR-ND	2,500	441.00/M
	P-Chan.	30	0.014	10	40	52	Single	FDD6685CT-ND ***NEW!***	1.20	10.71	85.05	FDD6685TR-ND ***NEW!***	2,500	441.00/M
	P-Chan.	35	0.0097	10	13	57	Single	FDD6637CT-ND	1.04	9.28	73.71	FDD6637TR-ND	2,500	382.00/M
	P-Chan.	40	0.036	10	6.7	42	Single	FDD4243CT-ND	.83	7.18	56.70	FDD4243TR-ND	2,500	274.00/M
	P-Chan.	40	0.023	10	8.4	69	Single	FDD4685CT-ND	1.17	10.50	83.35	FDD4685TR-ND	2,500	432.00/M
	P-Chan.	40	0.0101	10	5.7	69	Single	FDD4141CT-ND	1.10	9.82	77.98	FDD4141TR-ND	2,500	404.00/M
	P-Chan.	60	0.135	10	12	2.5	Single	FQD17P06TMCT-ND	1.02	8.78	69.30	FQD17P06TMTR-ND	2,500	335.00/M
	P-Chan.	60	0.076	10	15	42	Single	FDD5614PCT-ND	1.00	8.93	70.88	FDD5614PTR-ND	2,500	368.00/M
D2PAK (TO-263AB)														
13	N-Chan.	30	0.0031	10	80	187	Single	FDB8030LCT-ND◆	4.73	42.53	346.50	FDB8030LTR-ND◆	800	1890.40
	N-Chan.	30	0.022	10	25	50	Single	NDB603ALCT-ND	1.54	13.24	108.13	NDB603ALTR-ND	800	556.09
	N-Chan.	30	0.0049	10	93	80	Single	FDB8896CT-ND◆	1.24	11.07	87.89	FDB8896TR-ND◆	800	432.00
	N-Chan.	30	0.0014	10	80	300	Single	FDB8832CT-ND◆	3.64	32.75	266.82	FDB8832TR-ND◆	800	1455.20
	N-Chan.	30	0.0016	10	80	254	Single	FDB8860CT-ND◆	2.76	23.63	192.94	FDB8860TR-ND◆	800	992.00
	N-Chan.	40	0.0019	10	80	300	Single	FDB8441CT-ND◆	3.20	27.41	223.81	FDB8441TR-ND◆	800	1151.20
	N-Chan.	40	0.0036	10	80	254	Single	FDB8442CT-ND◆	3.42	29.30	239.24	FDB8442TR-ND◆	800	1230.40
	N-Chan.	40	0.013	10	70	92	Single	FDB8445CT-ND◆	1.68	14.99	119.07	FDB8445TR-ND◆	800	585.60
	N-Chan.	40	0.0085	10	15	60	Single	FDB8447LCT-ND◆	1.38	12.37	98.23	FDB8447LTR-ND◆	800	483.20
	N-Chan.	40	0.0063	10	16.1	66	Single	FDB8453LZCT-ND◆	1.44	12.85	102.06	FDB8453LZTR-ND◆	800	501.60
	N-Chan.	40	0.0039	10	70	167	Single	FDB8444CT-ND◆	2.94	25.20	205.80	FDB8444TR-ND◆	800	1058.40
	N-Chan.	50	0.1	10	15	50	Single	NDB4050CT-ND	1.20	10.77	85.50	NDB4050TR-ND	800	420.53
	N-Chan.	60	0.0018	10	120	395	Single	FDB024N06CT-ND◆	5.01	45.08	367.29	FDB024N06TR-ND◆	800	2003.20
	N-Chan.	60	0.0031	10	75	231	Single	FDB029N06CT-ND◆ ***NEW!***	4.11	36.99	301.40	FDB029N06TR-ND◆ ***NEW!***	800	1644.00
	N-Chan.	60	0.0039	10	75	231	Single	FDB039N06CT-ND◆ ***NEW!***	3.36	30.24	246.40	FDB039N06TR-ND◆ ***NEW!***	800	1344.00
	N-Chan.	60	0.0115	10	62	115	Single	FDB13AN06A0CT-ND◆	2.05	17.55	143.30	FDB13AN06A0TR-ND◆	800	736.80
	N-Chan.	60	0.025	2.7	48	100	Single	NDB6060LCT-ND◆	1.79	15.99	127.01	NDB6060LTR-ND◆	800	624.80
	N-Chan.	60	0.015	2.7	75	150	Single	NDB7060LCT-ND	6.12	55.43	461.91	—	—	—
	N-Chan.	60	0.021	10	32	58	Single	FDB5690CT-ND◆	1.63	14.57	115.70	—	—	—
	N-Chan.	60	0.0035	10	80	310	Single	FDB035AN06A0CT-ND◆	4.73	42.55	346.74	FDB035AN06A0TR-ND◆	800	1891.20
	N-Chan.	60	0.0046	10	80	242	Single	FDB5800CT-ND◆	2.47	21.20	173.09	FDB5800TR-ND◆	800	890.40
	N-Chan.	75	0.047	10	6	41	Single	FDB3502CT-ND◆	1.24	11.07	87.89	FDB3502TR-ND◆	800	432.00
	N-Chan.	75	0.0024	10	120	375	Single	FDB031N08CT-ND◆	5.10	45.93	374.22	FDB031N08TR-ND◆	800	2041.60
	N-Chan.	75	0.0039	10	80	310	Single	FDB045AN08A0CT-ND◆	4.10	36.86	300.30	FDB045AN08A0TR-ND◆	800	1638.40
	N-Chan.	80	0.01	10	75	270	Single	HUF75545S3STCT-ND◆	3.19	28.69	233.77	HUF75545S3STTR-ND◆	800	1275.20
	N-Chan.	100	0.0039	10	120	375	Single	FDB047N10CT-ND◆	4.57	41.11	334.95	FDB047N10TR-ND◆	800	1827.20
	N-Chan.	100	0.0075	10	80	310	Single	FDB3632CT-ND◆	3.94	35.44	288.75	FDB3632TR-ND◆	800	1575.20
	N-Chan.	100	0.0115	10	75	310	Single	HUF75645S3STCT-ND◆	3.18	28.63	233.31	HUF75645S3STTR-ND◆	800	1272.80
	N-Chan.	100	0.012	10	57	110	Single	FDB150N10CT-ND◆	3.19	27.38	223.61	FDB150N10TR-ND◆	800	1150.40
	N-Chan.	100	0.014	10	61	150	Single	FDB3652CT-ND◆	2.43	20.79	169.79	FDB3652TR-ND◆	800	872.80
	N-Chan.	100	0.021	10	55	3.75	Single	FQB55N10TMCT-ND◆	2.16	18.52	151.26	FQB55N10TMTR-ND◆	800	777.60
	N-Chan.	100	0.037	10	30	71	Single	FDB3860CT-ND◆	2.62	22.50	183.74	FDB3860TR-ND◆	800	1096.00
	N-Chan.	100	0.04	10	33	127	Single	FQB33N10TMCT-ND◆	1.36	12.14	96.39	FQB33N10TMTR-ND◆	800	474.40
	N-Chan.	100	0.012	10	74	170	Single	FDB120N10CT-ND◆ ***NEW!***	2.72	23.27	190.07	FDB120N10TR-ND◆ ***NEW!***	800	1134.40
	N-Chan.	100	0.125	10	22	3.75	Single	FQB22P10TMCT-ND◆	1.36	12.14	96.39	FQB22P10TMTR-ND◆	800	474.40
	N-Chan.	150	0.014	10	79	310	Single	FDB2532CT-ND◆	4.10	36.86	300.30	FDB2532TR-ND◆	800	1638.40
	N-Chan.	200	0.14	10	21	3.13	Single	FQB19N20LTMCT-ND◆	1.44	12.89	102.36	FQB19N20LTMTR-ND◆	800	503.20
	N-Chan.	200	0.06	10	31	3.13	Single	FQB34N20TM_AM002CT-ND◆	2.47	21.14	172.63	FQB34N20TM_AM002TR-ND◆	800	888.00
	N-Chan.	200	0.057	10	31	180	Single	FQB34N20LTMCT-ND◆	2.26	19.40	158.47	FQB34N20LTMTR-ND◆	800	815.20
	N-Chan.	200	0.0229	10	62	260	Single	FDB2614CT-ND◆	4.50	40.54	330.33	FDB2614TR-ND◆	800	1801.60
	N-Chan.	200	0.041	10	52	357	Single	FDB52N20TMCT-ND◆	2.46	21.11	172.36	FDB52N20TMTR-ND◆	800	886.40
	N-Chan.	200	1.12	10	3.6	3.13	Single	FQB4N20TMCT-ND◆	1.08	9.65	76.67	—	—	—
	N-Chan.	250	0.0363	10	50	260	Single	FDB2710CT-ND◆	5.96	53.60	436.70	FDB2710TR-ND◆	800	2382.40
	N-Chan.	250	0.058	10	44	307	Single	FDB44N25TMCT-ND◆	2.57	22.05	180.08	FDB44N25TMTR-ND◆	800	926.40
	N-Chan.	250	0.077	10	33	235	Single	FDB33N25TMCT-ND◆	2.06	17.64	144.06	FDB33N25TMTR-ND◆	800	740.80
	N-Chan.	300	0.24	10	14	140	Single	FDB14N30TMCT-ND◆	1.38	12.32	97.85	FDB14N30TMTR-ND◆	800	481.60
	N-Chan.	300	0.108	10	28	250	Single	FDB28N30TMCT-ND◆	2.17	18.59	151.78	FDB28N30TMTR-ND◆	800	780.80
	N-Chan.	500	0.38	10	15	300	Single	FDB15N50CT-ND◆	3.31	28.35	231.53	FDB15N50TR-ND◆	800	1190.40
	N-Chan.	500	0.55	10	11.5	165	Single	FDB12N50TMCT-ND◆	1.52	13.58	107.80	FDB12N50TMTR-ND◆	800	627.20
	N-Chan.	500	0.59	10	11.5	165	Single	FDB12N50FTM_WSCT-ND◆	1.76	15.74	124.96	FDB12N50FTM_WSTR-ND◆	800	614.40
	N-Chan.	600	0.38	10	11	125	Single	FCB11N60TMCT-ND◆	3.05	26.10	213.15	FCB11N60TMTR-ND◆	800	1096.00
	N-Chan.	600	0.19	10	20	208	Single	FCB20N60TMCT-ND◆	4.68	42.12	343.20	FCB20N60TMTR-ND◆	800	1872.00

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out *(Continued)*

Fig. 16 — TO-220F

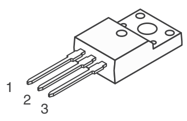

Fig. 17 — TO-252-4L

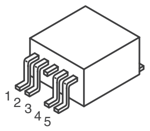

Fig. 18 — SC75-6

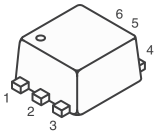

Fig. 19 — SC70-6

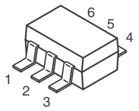

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig.	Type	VDS (V)	RDS (on)		ID (A)	PD (W)	Config- uration	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			Ω	@ Volt.					1	10	100		Qty.	Pricing
13	N-Chan.	600	0.15	10	20	208	Single	FCB20N60FTMCT-ND◆	5.40	48.60	396.00	FCB20N60FTMTR-ND◆	800	2160.00
	N-Chan.	650	1.2	10	7	173	Single	FQB7N65CTMCT-ND◆	1.63	13.96	114.04	—	—	—
	P-Chan.	20	0.041	4.5	24	60	Single	NDB6020PCT-ND◆ ***NEW!***	1.24	11.07	87.89	NDB6020PTR-ND◆ ***NEW!***	800	432.00
	P-Chan.	60	0.07	10	27	3.75	Single	FQB27P06TMCT-ND◆	1.33	11.92	94.69	FQB27P06TMTR-ND◆	800	465.60
	P-Chan.	100	0.049	10	33.5	3.75	Single	FQB34P10TM_F085CT-ND◆ ***NEW!***	2.87	24.57	200.63	FQB34P10TM_F085TR-ND◆ ***NEW!***	800	1196.80
TO-3P — RoHS Compliant														
14	N-Chan.	100	0.039	10	48	180	Single	FQA44N10-ND†	1.45	13.13	105.51	—	—	—
	N-Chan.	200	0.082	10	32	204	Single	FQA32N20C-ND†	1.92	17.35	139.39	—	—	—
	N-Chan.	250	0.083	10	27	210	Single	FQA27N25-ND†	2.44	22.05	177.19	—	—	—
	N-Chan.	250	0.034	10	69	480	Single	FDA69N25-ND†	3.42	30.55	250.53	—	—	—
	N-Chan.	600	0.19	10	20	208	Single	FCA20N60-ND†	5.91	52.76	432.65	—	—	—
TO-3PN — RoHS Compliant														
14	N-Chan.	40	0.00146	10	100	306	Single	FDA8440-ND†	4.41	39.38	322.88	—	—	—
	N-Chan.	75	0.025	10	75	—	Single	FDA032N08-ND†	4.32	38.59	316.42	—	—	—
	N-Chan.	250	0.088	10	33	245	Single	FDA33N25-ND†	2.15	19.40	155.93	—	—	—
	N-Chan.	400	0.15	10	23	235	Single	FDA24N40F-ND†	2.88	26.04	209.27	—	—	—
	N-Chan.	500	0.156	10	24	290	Single	FQA24N50-ND†	4.41	39.38	322.88	—	—	—
	N-Chan.	500	0.22	10	19	239	Single	FDA18N50-ND†	2.88	26.04	209.27	—	—	—
	N-Chan.	500	0.22	10	22	388	Single	FDA20N50F-ND†	3.00	26.78	219.56	—	—	—
	N-Chan.	500	0.16	10	24	270	Single	FDA24N50-ND†	3.79	33.80	277.14	—	—	—
	N-Chan.	500	0.122	10	28	310	Single	FDA28N50-ND†	5.20	46.46	380.99	—	—	—
	N-Chan.	500	0.140	10	28	310	Single	FDA28N50F-ND†	6.04	53.94	442.31	—	—	—
	N-Chan.	600	0.062	10	47	417	Single	FCA47N60F-ND†	12.14	110.40	938.40	—	—	—
	N-Chan.	600	0.079	10	35	312.5	Single	FCA35N60-ND† ***NEW!***	8.63	77.63	638.25	—	—	—
	N-Chan.	600	0.15	10	20	208	Single	FCA20N60F-ND†	5.21	46.50	381.30	—	—	—
	N-Chan.	600	0.165	10	22	205	Single	FCA22N60N-ND† ***NEW!***	5.63	50.25	412.05	—	—	—
	N-Chan.	650	0.36	10	16	260	Single	FDA15N65-ND†	3.26	29.14	238.93	—	—	—
TO-220 — RoHS Compliant														
15	N-Chan.	40	0.00164	10	100	306	Single	FDP8440-ND†	4.75	42.38	347.52	—	—	—
	N-Chan.	40	0.0087	10	12	60	Single	FDP8447L-ND†	1.29	11.39	90.04	—	—	—
	N-Chan.	55	0.0061	10	100	150	Single	FDP3205-ND†	2.11	19.08	153.29	—	—	—
	N-Chan.	60	0.0019	10	120	395	Single	FDP025N06-ND†	4.26	38.06	312.11	—	—	—
	N-Chan.	60	0.0032	10	120	231	Single	FDP030N06-ND† ***NEW!***	3.84	34.25	280.85	—	—	—
	N-Chan.	60	0.004	10	120	231	Single	FDP040N06-ND† ***NEW!***	3.22	28.75	235.75	—	—	—
	N-Chan.	60	0.01	10	85	160	Single	FQP85N06-ND†	2.17	19.58	157.34	—	—	—
	N-Chan.	60	0.0046	10	14	242	Single	FDP5800-ND†	2.15	19.40	155.93	—	—	—
	N-Chan.	60	0.013	10	65	135	Single	FDP65N06-ND†	1.12	9.89	78.18	—	—	—
	N-Chan.	60	0.0085	10	80	176	Single	FDP80N06-ND†	1.58	14.00	110.62	—	—	—
	N-Chan.	60	0.017	10	52.4	121	Single	FQP50N06L-ND†	1.25	11.07	87.47	—	—	—
	N-Chan.	60	0.018	10	50	120	Single	FQP50N06-ND†	1.21	10.68	84.38	—	—	—
	N-Chan.	60	0.018	10	55	114	Single	FDP55N06-ND†	1.14	10.09	79.75	—	—	—
	N-Chan.	60	0.027	10	32	79	Single	FQP30N06L-ND†	1.02	9.05	71.52	—	—	—
	N-Chan.	60	0.18	5	12	48	Single	MTP3055VLFS-ND†	1.01	8.95	70.76	—	—	—
	N-Chan.	75	0.0038	10	164	268	Single	FDP047N08-ND†	2.94	26.25	215.25	—	—	—
	N-Chan.	75	0.0025	10	120	375	Single	FDP032N08-ND†	3.82	34.13	279.83	—	—	—
	N-Chan.	75	0.0094	10	75	137	Single	FDP75N08A-ND†	1.79	16.17	129.94	—	—	—
	N-Chan.	100	0.023	10	57	160	Single	FQP70N10-ND†	1.92	17.35	139.39	—	—	—
	N-Chan.	100	0.0039	10	120	375	Single	FDP047N10-ND†	4.12	36.75	301.35	—	—	—
	N-Chan.	100	0.052	10	33	127	Single	FQP33N10-ND†	1.28	11.30	89.28	—	—	—
	N-Chan.	100	0.0072	10	75	208	Single	FDP090N10-ND†	2.85	25.42	208.40	—	—	—
	N-Chan.	100	0.0082	10	75	208	Single	FDP100N10-ND†	2.77	25.03	201.13	—	—	—
	N-Chan.	100	0.0097	10	74	170	Single	FDP120N10-ND†	2.67	24.08	193.50	—	—	—
	N-Chan.	100	0.012	10	57	110	Single	FDP150N10-ND†	2.64	23.88	191.88	—	—	—
	N-Chan.	150	0.033	10	45.6	210	Single	FQP46N15-ND†	2.08	18.76	150.73	—	—	—
	N-Chan.	200	0.17	10	19	139	Single	FQP19N20C-ND†	.98	8.65	68.36	—	—	—
	N-Chan.	200	0.12	10	18	100	Single	FDP18N20F-ND†	1.29	11.47	90.63	—	—	—
	N-Chan.	200	0.0229	10	62	260	Single	FDP2614-ND†	3.82	34.13	279.83	—	—	—
	N-Chan.	200	0.034	10	61	417	Single	FDP61N20-ND†	2.73	24.70	198.45	—	—	—
	N-Chan.	200	0.041	10	52	357	Single	FDP52N20-ND†	2.28	20.58	165.38	—	—	—
	N-Chan.	250	0.077	10	33	235	Single	FDP33N25-ND†	1.66	14.96	120.20	—	—	—
	N-Chan.	250	0.048	10	51	320	Single	FDP51N25-ND†	2.73	24.70	198.45	—	—	—
	N-Chan.	250	0.0363	10	50	260	Single	FDP2710-ND†	3.88	34.68	284.36	—	—	—
	N-Chan.	400	0.24	10	15	170	Single	FDP15N40-ND†	2.45	22.15	178.00	—	—	—
	N-Chan.	400	0.2	10	19	215	Single	FDP19N40-ND†	2.58	23.30	187.25	—	—	—
	N-Chan.	400	0.13	10	26	265	Single	FDP26N40-ND†	2.50	22.58	181.42	—	—	—
	N-Chan.	400	0.140	10	24	227	Single	FDP24N40-ND†	2.28	20.59	165.47	—	—	—
	N-Chan.	500	0.58	10	9	147	Single	FQP9N50-ND†	1.58	14.29	114.82	—	—	—
	N-Chan.	500	0.76	10	7	89	Single	FDP7N50-ND†	1.17	10.32	81.56	—	—	—
	N-Chan.	500	0.55	10	6	165	Single	FDP12N50-ND†	1.46	12.91	102.02	—	—	—
	N-Chan.	500	0.22	10	18	235	Single	FDP18N50-ND†	2.45	22.11	177.64	—	—	—
	N-Chan.	500	0.20	10	20	250	Single	FDP20N50-ND†	2.60	23.52	189.00	—	—	—
	N-Chan.	500	0.22	10	20	250	Single	FDP20N50F-ND†	2.68	24.23	194.67	—	—	—
	N-Chan.	500	0.185	10	22	312.5	Single	FDP22N50N-ND† ***NEW!***	2.44	22.05	177.19	—	—	—
	N-Chan.	500	1.15	10	5	85	Single	FDP5N50-ND†	.97	8.61	68.09	—	—	—
	N-Chan.	500	1.5	10	4.5	78	Single	FDP5N50NZ-ND† ***NEW!***	1.33	11.93	94.77	—	—	—
	N-Chan.	600	0.385	10	9	88.3	Single	FCP9N60N-ND† ***NEW!***	2.34	21.17	170.10	—	—	—
	N-Chan.	600	0.299	10	10.8	94	Single	FCP11N60N-ND† ***NEW!***	2.77	24.99	200.81	—	—	—
	N-Chan.	600	0.258	10	13	116	Single	FCP13N60N-ND† ***NEW!***	3.09	27.93	224.44	—	—	—
	N-Chan.	600	0.165	10	22	205	Single	FCP22N60N-ND† ***NEW!***	4.84	43.25	354.65	—	—	—
TO-220F — RoHS Compliant														
16	N-Chan.	60	0.008	10	53	62	Single	FQPF85N06-ND†	2.15	19.40	155.93	—	—	—
	N-Chan.	100	0.0291	10	20	33.8	Single	FDPF3860T-ND†	1.15	10.19	80.56	—	—	—
	N-Chan.	200	0.056	10	39	59	Single	FDPF39N20-ND†	1.76	15.88	127.58	—	—	—
	N-Chan.	250	0.0363	10	25	62.5	Single	FDPF2710T-ND†	3.52	31.42	257.66	—	—	—
	N-Chan.	250	0.077	10	33	94	Single	FDPF33N25T-ND†	1.63	14.69	118.04	—	—	—
	N-Chan.	250	0.048	10	51	117	Single	FDPF51N25-ND†	2.41	21.80	175.21	—	—	—
	N-Chan.	250	0.058	10	44	38	Single	FDPF44N25T-ND†	2.31	20.87	167.74	—	—	—
	N-Chan.	300	0.29	10	14	140	Single	FDPF14N30-ND†	1.18	10.43	82.39	—	—	—
	N-Chan.	500	0.2	10	20	62	Single	FDPF20N50-ND†	2.55	23.01	184.93	—	—	—
	N-Chan.	500	0.2	10	20	62	Single	FDPF20N50T-ND†	2.58	23.32	187.38	—	—	—
	N-Chan.	500	0.22	10	18	58	Single	FDPF18N50-ND†	2.45	22.11	177.64	—	—	—
	N-Chan.	500	0.22	10	18	58	Single	FDPF18N50T-ND†	2.45	22.11	177.64	—	—	—

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out

(Continued)

Fig. 20 — SC89-6

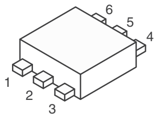

Fig. 21 — 8-TSSOP

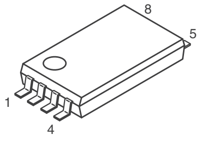

Fig. 22 — I-PAK, I^{2}PAK

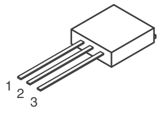

Fig. 23 — Power 56, Power 33

A Single

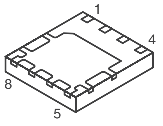

BOTTOM VIEW

B Dual

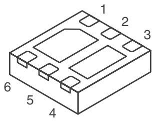

BOTTOM VIEW

C Dual

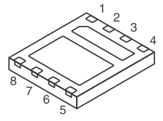

BOTTOM VIEW

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Digi-Reel® *Multiple pinout configurations available, see Digi-Key web site for data sheet.*

Fig.	Type	VDS (V)	RDS (on)		ID (A)	PD (W)	Config-uration	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
			Ω	@ Volt.					1	10	100		Qty.	Pricing
16	N-Chan.	500	0.22	10	20	38.5	Single	FDPF20N50FT-ND†	2.72	24.53	197.10	—	—	—
	N-Chan.	500	0.31	10	16	52	Single	FDPF16N50-ND†	1.95	17.64	141.75	—	—	—
	N-Chan.	500	0.31	10	16	38.5	Single	FDPF16N50T-ND†	1.88	16.96	136.26	—	—	—
	N-Chan.	500	0.42	10	12	42	Single	FDPF13N50FT-ND†	1.79	16.17	129.94	—	—	—
	N-Chan.	500	0.43	10	13	48	Single	FQPF13N50CF-ND†	1.91	17.26	138.71	—	—	—
	N-Chan.	500	0.5	10	10	143	Single	FQPF10N50CF-ND†	1.91	17.26	138.71	—	—	—
	N-Chan.	500	0.55	10	6	42	Single	FDPF12N50T-ND†	1.55	13.71	108.39	—	—	—
	N-Chan.	500	0.65	10	11.5	42	Single	FDPF12N50FT-ND†	1.73	15.31	121.01	—	—	—
	N-Chan.	500	0.71	10	9	42	Single	FDPF10N50FT-ND†	1.61	14.25	112.60	—	—	—
	N-Chan.	500	0.85	10	8	40.3	Single	FDPF8N50NZ-ND† ***NEW!***	1.79	15.30	124.95	—	—	—
	N-Chan.	500	1.0	10	7	40	Single	FDPF8N50NZF-ND† ***NEW!***	1.77	15.96	128.25	—	—	—
	N-Chan.	500	1.2	10	6.5	40	Single	FDPF8N50NZU-ND† ***NEW!***	2.02	18.20	146.25	—	—	—
	N-Chan.	500	0.9	10	7	89	Single	FDPF7N50-ND†	1.26	11.20	88.49	—	—	—
	N-Chan.	500	0.95	10	6	38.5	Single	FDPF7N50F-ND†	1.47	13.03	102.95	—	—	—
	N-Chan.	500	1.25	10	4.5	28	Single	FDPF5N50FT-ND†	1.19	10.53	83.20	—	—	—
	N-Chan.	500	1.5	10	4.5	30	Single	FDPF5N50NZ-ND† ***NEW!***	1.60	14.28	113.40	—	—	—
	N-Chan.	500	1.75	10	4.2	30	Single	FDPF5N50NZF-ND† ***NEW!***	1.37	12.09	95.55	—	—	—
	N-Chan.	500	2.0	10	3.9	30	Single	FDPF5N50NZU-ND† ***NEW!***	1.55	13.70	108.29	—	—	—
	N-Chan.	500	1.15	10	5	28	Single	FDPF5N50T-ND†	1.12	9.89	78.18	—	—	—
	N-Chan.	600	0.165	10	22	39	Single	FCPF22N60NT-ND† ***NEW!***	4.84	43.25	354.65	—	—	—
	N-Chan.	600	0.19	10	20	39	Single	FCPF20N60-ND†	4.12	36.75	301.35	—	—	—
	N-Chan.	600	0.19	10	20	208	Single	FCP20N60-ND†	4.09	36.50	299.30	—	—	—
	N-Chan.	600	0.22	10	16	37.9	Single	FCPF16N60-ND†	2.98	26.95	216.56	—	—	—
	N-Chan.	600	0.22	10	16	167	Single	FCP16N60-ND†	2.88	25.75	211.15	—	—	—
	N-Chan.	600	0.258	10	13	33.8	Single	FCPF13N60NT-ND† ***NEW!***	3.09	27.93	224.44	—	—	—
	N-Chan.	600	0.299	10	10.8	32.1	Single	FCPF11N60NT-ND† ***NEW!***	2.77	24.99	200.81	—	—	—
	N-Chan.	600	0.38	10	11	36	Single	FCPF11N60-ND†	2.48	22.40	180.00	—	—	—
	N-Chan.	600	0.38	10	11	125	Single	FCP11N60-ND†	2.48	22.40	180.00	—	—	—
	N-Chan.	600	0.385	10	9	29.8	Single	FCPF9N60NT-ND† ***NEW!***	2.70	24.40	196.09	—	—	—
	N-Chan.	600	0.6	10	7	31	Single	FCPF7N60-ND†	1.83	16.52	132.75	—	—	—
	N-Chan.	600	0.52	10	6.8	30.5	Single	FCPF7N60NT-ND† ***NEW!***	2.64	23.80	191.25	—	—	—
	N-Chan.	600	0.6	10	7	31	Single	FCP7N60-ND†	1.80	16.24	130.50	—	—	—
	N-Chan.	600	1.0	10	3.9	50	Single	FCP4N60-ND†	1.34	11.90	94.08	—	—	—
	N-Chan.	650	0.36	10	15	38.5	Single	FDPF15N65-ND†	3.00	26.78	219.56	—	—	—
	N-Chan.	800	2.1	10	5.5	51	Single	FQPF6N80CT-ND	1.69	14.99	118.43	—	—	—
	N-Chan.	800	2.5	10	5.5	51	Single	FQPF6N80C-ND†	1.40	12.43	98.27	—	—	—
	N-Chan.	900	1.12	10	8.0	68	Single	FQPF9N90CT-ND	2.45	22.11	177.64	—	—	—
	N-Chan.	900	1.93	10	6	56	Single	FQPF6N90CT-ND	1.71	15.44	124.11	—	—	—
	N-Chan.	900	1.93	10	6	167	Single	FQP6N90C-ND†	1.72	15.28	120.74	—	—	—
	P-Chan.	60	0.026	10	47	160	Single	FQP47P06-ND†	2.26	20.38	163.73	—	—	—
	P-Chan.	60	0.055	10	27	120	Single	FQP27P06-ND†	1.06	9.42	74.43	—	—	—
	P-Chan.	60	0.094	10	17	79	Single	FQP17P06-ND†	.92	8.09	62.37	—	—	—
TO-252-4L — RoHS Compliant														
17	N-Chan. P-Chan.	40 40	0.024 0.03	10 4.5	9 7	3.1 1.3	Dual	FDD8424HCT-ND	.96	8.57	68.04	FDD8424HTR-ND	2,500	353.00/M
SC75-6 — RoHS Compliant														
18	N-Chan.	20	0.035	4.5	5.5	1.6	Single	FDJ128NCT-ND	1.08	9.65	76.67	—	—	—
SC70-6 — RoHS Compliant														
19	N-Chan.	25	2.6	4.5	0.22	0.3	Dual	FDG6301NCT-ND	.52	4.07	27.85	FDG6301NTR-ND	3,000	118.00/M
	N-Chan.	30	0.4	4.5	0.75	0.36	Dual	FDG8850NZCT-ND	.55	4.38	32.84	FDG8850NZTR-ND	3,000	154.00/M
	N-Chan.	60	1.6	5	1.43	0.2	Dual	2N7002DWCT-ND	.48	3.41	22.75	2N7002DWTR-ND	3,000	82.00/M
	P-Chan.	12	0.27	4.5	0.7	0.3	Single	FDG6316PCT-ND	.57	4.49	30.73	FDG6316PTR-ND	3,000	130.00/M
	P-Chan.	20	0.073	4.5	2.6	0.75	Single	FDG332PZCT-ND	.57	4.49	30.73	FDG332PZTR-ND	3,000	130.00/M
	P-Chan.	20	0.42	4.5	0.6	0.3	Single	FDG6306PCT-ND	.51	4.11	30.86	FDG6306PTR-ND	3,000	145.00/M
	N-Chan. P-Chan.	25 25	0.45 1.1	4.5 4.5	0.5 0.41	0.3	Dual	FDG6321CCT-ND	.65	5.22	39.17	FDG6321CTR-ND	3,000	184.00/M
	N-Chan. P-Chan.	20 20	0.3 0.42	4.5 4.5	0.7 0.6	0.3	Dual	FDG6332CCT-ND	.64	5.08	38.12	FDG6332CTR-ND	3,000	179.00/M
	N-Chan. P-Chan.	30 25	0.4 1.1	4.5 4.5	0.75 0.41	0.36 0.3	Dual	FDG8842CZCT-ND	.54	4.28	32.11	FDG8842CZTR-ND	3,000	151.00/M
SC89-6 — RoHS Compliant														
20	P-Chan.	20	0.28	4.5	0.83	0.625	Dual	FDY1002PZCT-ND	.53	4.19	28.67	FDY1002PZTR-ND	3,000	121.00/M
	N-Chan. P-Chan.	20 20	0.3 0.5	4.5 4.5	0.6 0.35	0.625	Dual	FDY4000CZCT-ND	.53	4.19	28.67	FDY4000CZTR-ND	3,000	121.00/M
8-TSSOP — RoHS Compliant														
21	P-Chan.	12	0.015	4.5	6	1.6	Dual	FDW2508PBCT-ND	1.03	8.93	70.47	FDW2508PBTR-ND	2,500	341.00/M
	N-Chan. P-Chan.	20 20	0.014 0.028	4.5 4.5	6 4.4	1	Compl.	FDW2520CCT-ND	1.32	11.82	93.85	FDW2520CTR-ND	2,500	487.00/M
I-PAK (TO-251AA) — RoHS Compliant														
22	N-Chan.	25	0.0065	10	35	50	Single	FDU8780-ND†	.76	6.62	51.03	—	—	—
	N-Chan.	25	0.0045	10	35	88	Single	FDU8796-ND†	.88	7.72	59.54	—	—	—
	N-Chan.	30	0.011	10	40	40	Single	FDU8878-ND†	.84	7.35	56.70	—	—	—
	N-Chan.	50	0.1	10	14	48	Single	RFD14N05-ND†	.80	6.98	53.87	—	—	—
	N-Chan.	50	0.1	2.5	14	48	Single	RFD14N05L-ND†	.81	7.13	55.00	—	—	—
	N-Chan.	60	0.107	2.5	11	3	Single	RFD3055LE-ND†	.80	7.02	54.16	—	—	—
	N-Chan.	400	2.8	10	2.0	30	Single	FDU3N40TU-ND†	.71	6.25	48.20	—	—	—
	P-Chan.	60	0.11	10	12	2.5	Single	FQU17P06TU-ND†	.88	7.68	59.27	—	—	—
	P-Chan.	60	0.185	10	9.4	2.5	Single	FQU11P06TU-ND†	.71	6.17	47.63	—	—	—
NEW! I2-PAK — RoHS Compliant NEW!														
22	N-Chan.	60	0.0032	10	120	231	Single	FDI030N06-ND†	3.84	34.25	280.85	—	—	—
	N-Chan.	60	0.004	10	120	231	Single	FDI040N06-ND†	3.19	28.50	233.70	—	—	—
Power 56 — RoHS Compliant														
23A	N-Chan.	25	0.00125	10	32	2.5	Single	FDMS7558SCT-ND ***NEW!***	3.15	27.00	220.50	FDMS7558STR-ND ***NEW!***	3,000	1215.00/M
	N-Chan.	30	0.0016	10	49	83	Single	FDMS8662CT-ND	3.08	26.40	215.60	FDMS8662TR-ND	3,000	1188.00/M
	N-Chan.	30	0.0017	10	49	104	Single	FDMS8660ASCT-ND	1.91	16.38	133.77	FDMS8660ASTR-ND	3,000	737.00/M
	N-Chan.	30	0.0024	10	42	78	Single	FDMS8670ASCT-ND	1.88	16.78	133.25	FDMS8670ASTR-ND	3,000	691.00/M
	N-Chan.	30	0.0026	10	24	78	Single	FDMS8670CT-ND	1.81	15.52	126.71	FDMS8670TR-ND	3,000	810.00/M
	N-Chan.	30	0.0028	10	28	70	Single	FDMS7660CT-ND	1.47	13.17	104.55	FDMS7660TR-ND	3,000	630.00/M
	N-Chan.	30	0.004	10	17	50	Single	FDMS8672SCT-ND	1.34	12.00	95.26	FDMS8672STR-ND	3,000	494.00/M
	N-Chan.	30	0.0041	10	21	78	Single	FDMS8674CT-ND	1.32	11.77	93.45	FDMS8674TR-ND	3,000	485.00/M
	N-Chan.	30	0.0055	10	14	50	Single	FDMS8680CT-ND	1.06	9.46	75.14	FDMS8680TR-ND	3,000	390.00/M
	N-Chan.	100	0.0063	10	49	2.5	Single	FDMS86101CT-ND ***NEW!***	2.73	23.40	191.10	FDMS86101TR-ND ***NEW!***	3,000	1053.00/M
	N-Chan.	30	0.0063	10	13.5	42	Single	FDMS8880CT-ND	.76	6.59	51.99	FDMS8880TR-ND	3,000	251.00/M

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out *(Continued)*

Fig. 24 — MicroFET 2 x 2, MicroFET SC-75

A Single

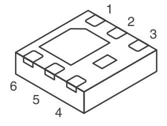

BOTTOM VIEW

B Dual

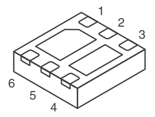

BOTTOM VIEW

Fig. 25 — 9-BGA

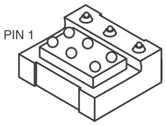

BOTTOM VIEW

Fig. 26 — BGA 2.5 x 4.0

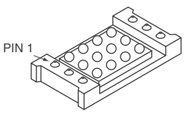

BOTTOM VIEW

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Digi-Reel®

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig.	Type	VDS (V)	RDS (on) Ω	RDS (on) @ Volt.	ID (A)	PD (W)	Configuration	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
23A	N-Chan.	30	0.0069	10	14	2.5	Single	FDMS7680CT-ND ***NEW!***	.68	5.88	46.39	FDMS7680TR-ND ***NEW!***	3,000	504.00/M
	N-Chan.	30	0.007	10	12	41	Single	FDMS8692CT-ND	1.00	8.93	70.88	FDMS8692TR-ND	3,000	368.00/M
	N-Chan.	30	0.0074	10	14	2.8	Single	FDMS8690CT-ND	2.02	17.33	141.49	FDMS8690TR-ND	3,000	780.00/M
	N-Chan.	30	0.0075	10	14	2.5	Single	FDMS7692CT-ND ***NEW!***	1.05	9.36	74.35	FDMS7692TR-ND ***NEW!***	3,000	448.00/M
	N-Chan.	30	0.008	10	13.5	2.5	Single	FDMS7692ACT-ND ***NEW!***	1.22	10.88	86.40	FDMS7692ATR-ND ***NEW!***	3,000	448.00/M
	N-Chan.	30	0.0019	10	25	83	Single	FDMS8660SCT-ND	2.13	18.27	149.21	FDMS8660STR-ND	3,000	822.00/M
	N-Chan.	30	0.0028	10	20	78	Single	FDMS8670SCT-ND	1.59	14.25	113.13	FDMS8670STR-ND	3,000	587.00/M
	N-Chan.	30	0.029	10	42	62	Single	FDMS7670CT-ND	1.86	15.90	129.85	FDMS7670TR-ND	3,000	716.00/M
	N-Chan.	30	0.036	10	28	48	Single	FDMS7672CT-ND	1.82	16.32	129.60	FDMS7672TR-ND	3,000	672.00/M
	N-Chan.	40	0.002	10	25	104	Single	FDMS8460CT-ND	3.01	25.80	210.70	FDMS8460TR-ND	3,000	1161.00/M
	N-Chan.	40	0.0026	10	22.8	104	Single	FDMS8848NZCT-ND	2.45	21.00	171.50	FDMS8848NZTR-ND	3,000	945.00/M
	N-Chan.	60	0.0067	10	13.6	104	Single	FDMS5352CT-ND	3.22	27.60	225.40	FDMS5352TR-ND	3,000	1242.00/M
	N-Chan.	60	0.0094	10	10.6	78	Single	FDMS5672CT-ND	2.73	23.40	191.10	FDMS5672TR-ND	3,000	1053.00/M
	N-Chan.	75	0.0145	10	9.2	96	Single	FDMS3500CT-ND	2.84	24.31	198.52	FDMS3500TR-ND	3,000	1269.00/M
	N-Chan.	80	0.0135	10	8.8	78	Single	FDMS3572CT-ND	2.73	23.40	191.10	FDMS3572TR-ND	3,000	1053.00/M
	N-Chan.	100	0.0148	10	8.9	104	Single	FDMS3662CT-ND	3.40	29.10	237.65	FDMS3662TR-ND	3,000	1310.00/M
	N-Chan.	100	0.019	10	7.4	78	Single	FDMS3672CT-ND	3.19	27.30	222.95	FDMS3672TR-ND	3,000	1229.00/M
	N-Chan.	150	0.036	10	4.5	2.8	Single	FDMS2572CT-ND	2.38	20.40	166.60	FDMS2572TR-ND	3,000	918.00/M
	N-Chan.	200	0.064	10	20	78	Single	FDMS2672CT-ND	3.12	26.70	218.05	FDMS2672TR-ND	3,000	1202.00/M
	N-Chan.	250	0.105	10	2.8	78	Single	FDMS2734CT-ND	3.40	29.10	237.65	FDMS2734TR-ND	3,000	1310.00/M
	P-Chan.	30	0.0035	10	49	73	Single	FDMS6681ZCT-ND	2.52	21.60	176.40	FDMS6681ZTR-ND	3,000	972.00/M
	P-Chan.	30	0.0052	10	28	73	Single	FDMS6673BZCT-ND	1.93	16.50	134.75	FDMS6673BZTR-ND	3,000	743.00/M
23C	N-Chan.	30	0.0075	10	30/40	1	Dual	FDMS7600ASCT-ND ***NEW!***	2.49	21.30	173.95	FDMS7600ASTR-ND ***NEW!***	3,000	959.00/M
	N-Chan.	30	0.0075	10	30/40	1	Dual	FDMS7700SCT-ND ***NEW!***	2.80	24.00	196.00	FDMS7700STR-ND ***NEW!***	3,000	1080.00/M
	N-Chan.	30	0.0215	10	7.5	2.5	Dual	FDMS9620SCT-ND	1.33	11.90	94.50	FDMS9620STR-ND	3,000	490.00/M
	N-Chan.	30	0.007	10	32	2.5	Dual	FDMS9600SCT-ND	3.37	28.89	235.94	FDMS9600STR-ND	3,000	1300.00/M
Power 33 — RoHS Compliant														
23B	N-Chan.	20/20	0.058/0.067	4.5	4	1.92/1.78	Dual	FDMC6890NZCT-ND	.86	7.68	60.99	FDMC6890NZTR-ND	3,000	386.00/M
23C	N-Chan.	20	0.0036	10	16.5	41	Single	FDMC8554CT-ND	1.82	15.60	127.40	FDMC8554TR-ND	3,000	702.00/M
	N-Chan.	30	0.0043	10	18	41	Single	FDMC8678SCT-ND	1.82	15.60	127.40	FDMC8678STR-ND	3,000	702.00/M
	N-Chan.	30	0.0047	10	18	41	Single	FDMC8676CT-ND	1.82	15.60	127.40	FDMC8676TR-ND	3,000	702.00/M
	N-Chan.	30	0.0057	10	15	2.0	Single	FDMC8854CT-ND	.98	8.75	69.50	FDMC8854TR-ND	3,000	360.00/M
	N-Chan.	30	0.006	4.5	15	41	Single	FDMC8651CT-ND	1.82	15.60	127.40	FDMC8651TR-ND	3,000	702.00/M
	N-Chan.	30	0.0096	10	9.6	31	Single	FDMC8878CT-ND	1.15	10.30	81.81	FDMC8878TR-ND	3,000	424.00/M
	N-Chan.	30	0.0105	10	11.5	2.1	Single	FDM6296CT-ND§	1.20	10.71	85.05	FDM6296TR-ND§	3,000	441.00/M
	N-Chan.	30	0.02	10	8	0.7	Dual	FDMC8200CT-ND ***NEW!***	1.05	9.36	74.35	FDMC8200TR-ND ***NEW!***	3,000	448.00/M
	N-Chan.	40	0.0058	10	14	41	Single	FDMC8462CT-ND	1.96	16.80	137.20	FDMC8462TR-ND	3,000	756.00/M
	N-Chan.	60	0.084	10	5.7	6	Single	FDMC5614PCT-ND	1.48	13.26	105.30	FDMC5614PTR-ND	3,000	546.00/M
	N-Chan.	100	0.06	10	4.4	2.1	Single	FDM3622CT-ND§	1.60	14.28	113.40	FDM3622TR-ND§	3,000	588.00/M
	N-Chan.	150	1.1	10	3	25	Single	FDMC2523PCT-ND	1.22	10.88	86.40	FDMC2523PTR-ND	3,000	448.00/M
	N-Chan.	200	0.175	10	2.2	42	Single	FDMC2610CT-ND	1.82	15.60	127.40	FDMC2610TR-ND	3,000	702.00/M
	N-Chan.	220	0.305	10	1	2.4	Single	FDMC2674CT-ND	1.60	14.28	113.40	FDMC2674TR-ND	3,000	588.00/M
MicroFET 2 x 2 — RoHS Compliant														
24A	N-Chan.	20	0.017	4.5	9.5	2.4	Single	FDMA410NZCT-ND	.77	6.16	46.20	FDMA410NZTR-ND	3,000	217.00/M
	N-Chan.	20	0.0168	4.5	5.7	0.9	Single	FDMA420NZCT-ND	.66	5.70	45.00	FDMA420NZTR-ND	3,000	218.00/M
	N-Chan.	30	0.0236	4.5	5.0	0.9	Single	FDMA430NZCT-ND	.99	8.84	70.20	FDMA430NZTR-ND	3,000	364.00/M
	P-Chan.	20	0.12	4.5	3	0.7	Single	FDFMA2P859TCT-ND ***NEW!***	.86	7.41	58.50	FDFMA2P859TTR-ND ***NEW!***	3,000	283.00/M
	P-Chan.	20	0.026	4.5	7.3	2.4	Single	FDMA520PZCT-ND	.79	6.80	53.70	FDMA520PZTR-ND	3,000	260.00/M
	P-Chan.	20	0.036	4.5	6.6	2.4	Single	FDMA291PCT-ND	.82	7.07	55.80	FDMA291PTR-ND	3,000	270.00/M
	P-Chan.	30	0.030	10	6.8	2.4	Single	FDMA530PZCT-ND	.85	7.33	57.90	FDMA530PZTR-ND	3,000	280.00/M
24B	N-Chan.	20	0.037	4.5	5.0	1.4	Dual	FDMA1024NZCT-ND	.79	6.84	54.00	FDMA1024NZTR-ND	3,000	261.00/M
	N-Chan.	20	0.037	4.5	3.7	1.4	Dual	FDMA1028NZCT-ND	.79	6.80	53.70	FDMA1028NZTR-ND	3,000	260.00/M
	N-Chan.	20	0.037	4.5	3.7	1.4	Mosfet w/ Diode	FDFMA2N028ZCT-ND	.79	6.31	47.29	FDFMA2N028ZTR-ND	3,000	222.00/M
	N-Chan.	30	0.075	4.5	2.9	1.5	Dual	FDMA2002NZCT-ND	.73	6.27	49.50	FDMA2002NZTR-ND	3,000	239.00/M
	P-Chan.	20	0.06	4.5	3.1	1.4	Dual	FDMA1029PZCT-ND	.85	7.33	57.90	FDMA1029PZTR-ND	3,000	280.00/M
	P-Chan.	20	0.06	4.5	3.1	1.4	Mosfet w/ Diode	FDFMA2P029ZCT-ND	.79	6.31	47.29	FDFMA2P029ZTR-ND	3,000	222.00/M
	P-Chan.	20	0.06	4.5	3.7	1.5	Dual	FDMA1023PZCT-ND	.68	5.87	46.32	FDMA1023PZTR-ND	3,000	224.00/M
	P-Chan.	20	0.088	4.5	3.1	1.4	Dual	FDMA1025PCT-ND	.79	6.80	53.70	FDMA1025PTR-ND	3,000	260.00/M
	P-Chan.	20	0.090	4.5	2.2	1.4	Dual	FDMA1027PCT-ND	1.00	8.66	68.37	FDMA1027PTR-ND	3,000	330.00/M
	P-Chan.	20	0.090	4.5	2.2	1.4	Dual	FDMA1027PTCT-ND	.92	8.19	65.05	FDMA1027PTTR-ND	3,000	392.00/M
	P-Chan.	20	0.090	4.5	2.2	1.4	Mosfet w/ Diode	FDFMA2P853CT-ND	.88	7.62	60.18	FDFMA2P853TR-ND	3,000	291.00/M
	P-Chan.	20	0.090	4.5	3	1.4	Mosfet w/ Diode	FDFMA2P857CT-ND	.78	6.24	46.79	FDFMA2P857TR-ND	3,000	220.00/M
	P-Chan.	30	0.071	4.5	2.9	1.4	Dual	FDMA3023PZCT-ND	.69	5.93	46.80	FDMA3023PZTR-ND	3,000	226.00/M
	N-Chan. P-Chan.	20 20	0.037 0.06	4.5 4.5	3.7 3.1	1.4 1.4	Compl.	FDMA1032CZCT-ND	.85	7.33	57.90	FDMA1032CZTR-ND	3,000	280.00/M
MicroFET SC-75 — RoHS Compliant														
24B	P-Chan.	20	0.093	4.5	2.9	1.4	Dual	FDMJ1023PZCT-ND	1.03	8.89	70.20	FDMJ1023PZTR-ND	3,000	339.00/M
9-BGA — RoHS Compliant														
25	P-Chan.	20	0.036	4.5	4.6	1.7	Single	FDZ493PCT-ND	.75	6.50	51.28	—	—	—
BGA 2.5 x 4.0 — RoHS Compliant														
26	N-Chan.	30	0.0085	10	11	2.1	Single	FDZ7296CT-ND	1.44	12.92	102.60	—	—	—
MicroFET 3.0 x 1.9 — RoHS Compliant														
27	N-Chan.	30	0.032	10	4.8	1.6	Dual	FDMB3800NCT-ND	1.06	9.12	72.00	FDMB3800NTR-ND	3,000	348.00/M
	P-Chan.	20	0.035	4.5	6.1	1.9	Single	FDMB668PCT-ND	.85	7.32	57.75	FDMB668PTR-ND	3,000	279.00/M
NEW! 4-WL-CSP — RoHS Compliant NEW!														
28	P-Chan.	20	0.075	4.5	3.7	0.5	Single	FDZ371PZCT-ND	.88	7.60	60.00	FDZ371PZTR-ND	5,000	270.00/M
6-WL-CSP — RoHS Compliant														
29	P-Chan.	20	0.066	4.5	3	1.5	Single	FDZ193PCT-ND	.68	5.89	46.50	FDZ193PTR-ND	5,000	209.00/M
	P-Chan.	20	0.067	4.5	3	1.5	Single	FDZ191PCT-ND	.68	5.89	46.50	FDZ191PTR-ND	5,000	209.00/M
	P-Chan.	20	0.126	4.5	3	1.5	Single	FDZ1905PZCT-ND	.82	7.31	58.08	FDZ1905PZTR-ND	5,000	333.00/M
	P-Chan.	20	0.074	4.5	3	1.9	Single	FDZ391PCT-ND	.62	5.39	42.52	FDZ391PTR-ND	5,000	223.00/M
	P-Chan.	20	0.064	4.5	3.8	0.9	Single	FDZ197PZCT-ND ***NEW!***	.66	5.71	45.10	FDZ197PZTR-ND ***NEW!***	5,000	236.00/M
MLP 3.3 x 3.3 — RoHS Compliant														
30	N-Chan.	30	0.008	10	12	27	Single	FDMC8296CT-ND	1.02	9.11	72.31	FDMC8296TR-ND	3,000	375.00/M
	N-Chan.	30	0.016	10	9	18	Single	FDMC8884CT-ND	.52	4.16	31.19	FDMC8884TR-ND	3,000	146.00/M
	N-Chan.	55	0.9	10	2.4	2.3	Single	FDMC15N06CT-ND ***NEW!***	1.31	11.73	93.15	FDMC15N06TR-ND ***NEW!***	3,000	483.00/M
	P-Chan.	30	0.0107	10	20	36	Single	FDMC6675BZCT-ND	1.71	15.30	121.50	FDMC6675BZTR-ND	3,000	630.00/M
	P-Chan.	30	0.02	10	8.5	31	Single	FDMC4435BZCT-ND	.88	7.60	60.00	FDMC4435BZTR-ND	3,000	290.00/M
NEW! TO-264 — RoHS Compliant NEW!														
31	N-Chan.	500	0.055	10	100	2500	Single	FDL100N50F-ND†	13.56	123.27	1047.80	—	—	—

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk § See data sheet for pin out

Fig. 27 — MicroFET 3.0 x 1.9

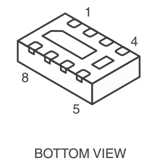

Fig. 28 — 4-WL-CSP

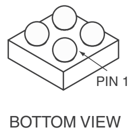

Fig. 29 — 6-WL-CSP

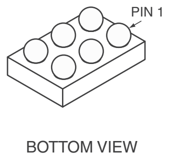

Fig. 30 — MLP 3.3 x 3.3

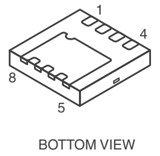

Fig. 31 — TO-264

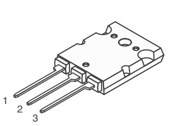

FAIRCHILD
SEMICONDUCTOR®

Surface Mount and Through-Hole Power IGBTs

Digi-Reel® RoHS COMPLIANT

Fairchild's IGBT's are designed to replace 500V/600V MOSFETs in switch mode power supply (SMPS), Power Factor Correction (PFC) and other high-power applications without redesign of the gate drive voltage circuitry. SMPS IGBT's are the first-in-class to have full unclamped inductive switching (UIS) capability similar to power MOSFETs, allowing application in all power circuit topologies, including single-switch forward converters. The gate drive voltage requirement has been reduced to 8 ~ 10V, allowing for the replacement of larger die-size power MOSFETs or multiple MOSFETs in parallel.

Fig. 1 — TO-3P

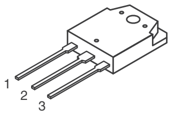

Fig. 2 — TO-3PN

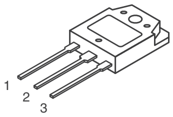

Fig. 3 — TO-264

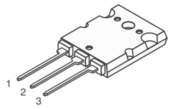

Fig. 4 — TO-247

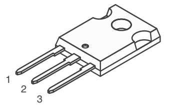

Fig. 5 — TO-220F

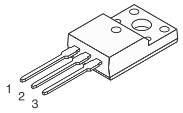

Fig. 6 — D-PAK

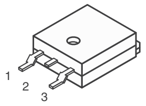

Fig. 7 — TO-220AB

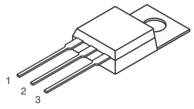

Fig. 8 — TO-263AB

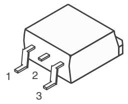

Fig. 9 — I^2-PAK

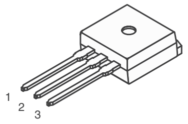

Fig. 10 — TO-220

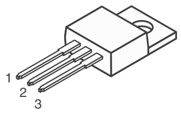

Fig.	VCES (V)	IC (A)	ICM (A)	PD (W)	Digi-Key Part No.	Price Each		
						1	10	100
1	300	90	220	219	FGA90N30DTU-ND	4.19	3.75	3.08
	300	90	220	219	FGA90N30TU-ND	3.80	3.39	2.78
	330	160	—	149	FGA70N33BTDTU-ND	3.02	2.73	2.20
	330	90	220	223	FGA90N33ATDTU-ND	2.85	2.58	2.07
	330	90	220	223	FGA90N33ATTU-ND	2.41	2.18	1.76
	330	180	450	390	FGA180N33ATDTU-ND	3.94	3.52	2.89
	330	180	450	390	FGA180N33ATTU-ND	3.18	2.84	2.33
	600	120	180	298	FGA60N60UFDTU-ND	6.78	6.05	4.97
	1,000	50	200	156	FGA50N100BNTD2-ND	5.49	4.90	4.02
	1,000	50	200	156	FGA50N100BNTTU-ND	4.51	4.03	3.31
	1,200	50	75	312	FGA25N120ANTDTU-ND	4.48	4.00	3.28
	1,200	50	75	313	FGA25N120FTD-ND	5.49	4.90	4.02
	1,200	60	90	339	FGA30N120FTDTU-ND ***NEW!***	5.71	5.10	4.19
2	600	60	90	480	FGA30N60LSDTU-ND	8.63	7.77	6.39
	1,200	15	45	220	FGA15N120FTDTU-ND	4.31	3.85	3.16
	1,200	20	60	298	FGA20N120FTDTU-ND	4.76	4.25	3.49
	1,200	40	60	348	FGA20S120M-ND ***NEW!***	3.28	2.93	2.40
	1,200	35	80	298	HGT1S10N120BNSTCT-ND†	3.77	3.40	2.77
	1,200	35	80	298	HGT1S10N120BNSTTR-ND‡	1508.00/800		
3	600	80	150	250	SGL50N60RUFDTU-ND ***NEW!***	6.56	5.91	4.86
	600	160	300	250	SGL160N60UFDTU-ND	11.11	10.10	8.59
	1,200	64	120	500	FGL40N120ANDTU-ND	13.75	12.50	10.63
	1,200	64	160	500	FGL40N120ANTU-ND	9.43	8.49	6.98
4	600	40	60	165	FGH20N60SFDTU-ND	4.06	3.63	2.98
	600	40	60	165	FGH20N60UFDTU-ND	3.86	3.45	2.83
	600	40	160	165	HGTG20N60B3D-ND	5.61	5.01	4.11
	600	54	96	167	HGTG12N60A4-ND	3.64	3.25	2.67
	600	54	96	167	HGTG12N60A4D-ND	4.34	3.88	3.18
	600	60	90	480	FGH30N60LSDTU-ND	11.96	10.77	8.86
	600	60	240	463	HGTG30N60A4D-ND	10.68	9.61	7.90
	600	60	220	208	HGTG30N60B3D-ND	7.59	6.83	5.62
	600	63	252	208	HGTG30N60C3D-ND	7.16	6.45	5.30
	600	70	330	290	HGTG40N60B3-ND ***NEW!***	11.54	10.39	8.54
	600	70	280	290	HGTG20N60A4-ND	5.32	4.75	3.90
	600	70	280	290	HGTG20N60A4D-ND	6.44	5.75	4.72
4	600	75	225	452	FGH75N60SFTU-ND	9.40	8.47	6.96
	600	75	225	452	FGH75N60UFTU-ND	9.09	8.19	6.73
	600	75	240	463	FGH50N6S2-ND	10.30	9.27	7.63
	600	75	240	463	FGH50N6S2D-ND	12.47	11.34	9.64
	600	75	240	463	HGTG30N60A4-ND	8.04	7.24	5.95
	600	75	300	625	HGTG40N60A4-ND	11.89	10.81	9.19
	600	80	120	290	FGH40N60UFDTU-ND	4.51	4.03	3.31
	600	80	120	290	FGH40N60SFTU-ND	4.20	3.75	3.08
	600	80	120	290	FGH40N60SFDTU-ND	4.51	4.03	3.31
	600	80	120	290	FGH40N60UFTU-ND	3.81	3.40	2.79
	600	80	160	290	FGH80N60FDTU-ND	4.48	4.00	3.28
	600	80	160	290	FGH80N60FD2TU-ND	6.83	6.10	5.01
	600	120	180	378	FGH60N60SFDTU-ND	9.65	8.69	7.15
	600	120	180	378	FGH60N60SFTU-ND	7.93	7.14	5.87
	600	120	180	298	FGH60N60UFDTU-ND	8.98	8.08	6.65
	650	80	120	290	FGH40N65UFDTU-ND ***NEW!***	4.76	4.25	3.49
	1,200	35	80	298	HGTG10N120BND-ND	5.19	4.64	3.80
	1,200	54	160	390	HGTG18N120BND-ND	6.89	6.21	5.10
	1,200	64	160	417	FGH40N120ANTU-ND	12.34	11.11	9.14
5	300	30	80	46	FGPF30N30DTU-ND	1.79	1.62	1.30
	300	30	120	46.8	FGPF50N30TTU-ND	1.81	1.64	1.32
	330	120	—	43	FGPF50N33BTTU-ND	1.56	1.42	1.14
	330	160	—	48	FGPF70N33BTTU-ND	2.10	1.90	1.53
	330	—	300	30.5	FGPF4633TU-ND ***NEW!***	1.41	12.49	98.74
	1,500	5	20	50	SGS5N150UFTU-ND	3.73	3.34	2.74
6	600	6	25	40	FGD3N60LSDTMCT-ND†	1.13	1.02	.81
	600	6	25	40	FGD3N60LSDTMTR-ND‡	1045.00/2,500		
SMPS IGBTs								
7	600	70	280	290	HGTP20N60A4-ND	5.63	5.03	4.13
	600	34	56	125	HGTP7N60A4-ND	1.86	1.68	1.35
8	600	54	96	167	HGT1S12N60A4S9ACT-ND†	2.95	2.66	2.17
	600	54	96	167	HGT1S12N60A4S9ATR-ND‡	1292.80/800		
	600	54	96	167	HGT1S12N60A4DS-ND	3.47	3.10	2.54
9	600	80	120	290	FGI40N60SFTU-ND	6.94	6.20	5.09
10	600	40	60	165	FGP20N60UFDTU-ND	3.25	2.90	2.38
	600	10	36	83	FGP5N60LS-ND ***NEW!***	.82	.71	.56
	600	10	15	81	FGP5N60UFDTU-ND	1.74	1.57	1.26

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Diodes

Fig. 1

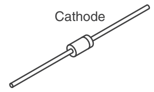

Fig. 2

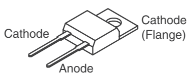

Fig. 3

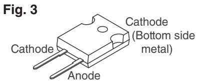

Fig. 4

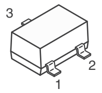

Fig. 5

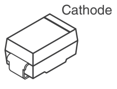

Fig. 6

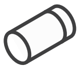

Fig. 7

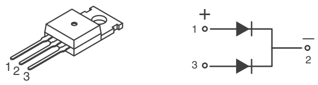

Fig. 8

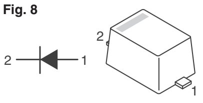

Fig. 9

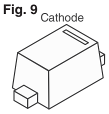

Fig. 10 ***NEW!***

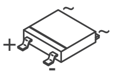

Fig. 11 ***NEW!***

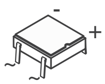

Fig.	Max. Reverse Voltage (V)	Max. Average Rectified Current (A)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
1	20	1	DO-41	1N5817FSCT-ND◆	.54	3.89	23.34	5,000	70.00/M
	30	1	DO-41	1N5818FSCT-ND◆	.54	3.89	23.34	5,000	70.00/M
	30	1	DO-35	FJH1100-ND◆‡	16.65	151.40	1286.90	—	—
	40	1	DO-41	1N5819FSCT-ND◆	.54	3.89	23.34	5,000	70.00/M
	45	12	DO-201AD	SB1245CT-ND◆ ***NEW!***	1.87	16.71	132.68	1,250	737.00/M
	50	0.2	DO-35	1N4454CT-ND◆	.20	1.31	5.70	10,000	11.00/M
	50	0.2	DO-35	1N4150CT-ND◆	.28	1.84	8.00	—	—
	50	1	DO-41	1N4001FSCT-ND◆	.32	2.07	9.00	5,000	21.00/M
	50	4	DO-35	1N4150-ND◆‡	.31	2.01	8.76	—	—
	70	0.2	DO-35	1N457ACT-ND◆	.25	1.66	7.23	10,000	23.00/M
	70	0.2	DO-35	1N457CT-ND◆	.40	2.62	11.40	10,000	23.00/M
	100	0.2	DO-35	1N914BCT-ND◆	.16	1.04	4.50	10,000	9.00/M
	100	0.2	DO-35	1N914CT-ND◆	.18	1.15	5.00	10,000	10.00/M
	100	0.2	DO-35	1N4148TACT-ND◆▲	.14	.94	4.10	5,000	9.64/M
	100	0.2	DO-35	1N4448CT-ND◆	.20	1.31	5.70	10,000	11.00/M
	100	0.2	DO-35	1N4148FS-ND◆‡	.14	.94	4.10	—	—
	100	0.2	DO-35	1N4148FSTR-ND◆	—	—	—	10,000	8.00/M
	100	1	DO-41	1N4002FSCT-ND◆	.32	2.07	9.00	5,000	21.00/M
	100	1	DO-35	1N914ACT-ND◆	.16	1.04	4.50	10,000	9.00/M
	100	1	DO-35	1N914B-ND◆‡	.16	1.04	4.50	—	—
	100	3	DO-201AD	1N5401FSCT-ND◆	.52	3.68	22.08	1,250	85.00/M
	125	0.2	DO-35	FDH300TRCT-ND◆ ***NEW!***	.49	3.24	14.10	10,000	28.00/M
	125	0.2	DO-35	FDH333-ND◆‡	.49	3.24	14.10	—	—
	150	0.2	DO-35	1N3595CT-ND◆	.40	2.60	11.30	10,000	23.00/M
	200	1	DO-41	1N4003FSCT-ND◆	.34	2.23	9.70	5,000	23.00/M
	200	3	DO-201AD	1N5402FSCT-ND◆	.52	3.68	22.08	1,250	85.00/M
	400	1	DO-41	1N4004FSCT-ND◆	.34	2.23	9.70	5,000	23.00/M
	600	1	DO-41	1N4005FSCT-ND◆	.35	2.32	10.10	5,000	24.00/M
	600	1	DO-41	1N4937FSCT-ND◆	.50	3.29	14.30	25,000	24.00/M
	800	1	DO-41	1N4006FSCT-ND◆	.34	2.23	9.70	5,000	23.00/M
	1,000	1	DO-41	1N4007FSCT-ND◆	.34	2.23	9.70	5,000	23.00/M
	1,000	1	DO-41	UF4007CT-ND◆	.49	3.47	20.82	5,000	62.00/M
	1,000	3	DO-201AD	1N5408FSCT-ND◆ ***NEW!***	.59	4.20	25.20	1,250	97.00/M
2	200	15	TO-220F	FFPF15UP20STTU-ND◆‡	.89	7.88	62.25	—	—
	600	8	TO-220AC	ISL9R860P2-ND◆‡	1.22	10.81	85.41	—	—
	600	8	TO-220AC	RHRP860-ND◆‡	1.61	14.26	112.70	—	—
	600	8	TO-220AC	RURP860-ND◆‡	1.15	10.15	80.19	—	—
	600	8	TO-220AC	FFP08S60STU-ND◆‡	1.01	8.96	70.81	—	—
	600	8	TO-220-2L	FFP08S60SNTU-ND◆‡	.97	8.56	67.62	—	—
	600	8	TO-220F-2L	FFPF08S60SNTU-ND◆‡	.97	8.56	67.62	—	—
	600	15	TO-220AC	ISL9R1560P2-ND◆‡	1.66	14.99	120.49	—	—
	600	15	TO-220AC	RHRP1560-ND◆‡	1.73	15.33	121.18	—	—
	600	15	TO-220AC	RURP1560-ND‡	1.59	14.41	115.76	—	—
	600	30	TO-220AC	ISL9R3060P2-ND◆‡	3.20	28.61	234.62	—	—
	600	30	TO-220AC	RURP3060-ND◆‡	2.32	20.99	168.68	—	—
	1,000	8	TO-220AC	RURP8100-ND◆‡	1.25	11.11	87.81	—	—
	1,200	8	TO-220AC	RHRP8120-ND◆‡	1.21	10.74	84.89	—	—
	1,200	30	TO-220AC	RHRP30120-ND◆‡	2.47	22.34	179.55	—	—
3	200	30	TO-247	RURG3020CC-ND◆‡	4.03	35.96	294.89	—	—
	600	30	TO-247	ISL9R3060G2-ND◆‡	3.41	30.45	249.69	—	—
	600	30	TO-247	RHRG3060-ND◆‡	3.08	27.78	223.27	—	—
	600	30	TO-247	RURG3060CC-ND◆‡	4.33	38.70	317.36	—	—
	600	30	TO-247	RURG3060-ND◆‡	2.87	25.93	208.37	—	—
	600	50	TO-247	RURG5060-ND◆‡	4.11	36.66	300.59	—	—
	600	80	TO-247	RURG8060-ND◆‡	6.05	54.04	443.11	—	—
	1,000	80	TO-247	RURG80100-ND◆‡	5.93	52.92	433.94	—	—
	1,200	30	TO-247	RHRG30120-ND◆‡	3.03	27.01	221.50	—	—
	1,200	75	TO-247	RHRG75120-ND◆‡	5.56	49.61	406.82	—	—

Fig.	Max. Reverse Voltage (V)	Max. Average Rectified Current (A)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
4	30	0.2	SOT-23	BAR43CT-ND◆ ***NEW!***	.41	2.75	12.96	3,000	38.00/M
	30	0.2	SOT-23	BAR43CCT-ND◆	.45	3.04	14.32	3,000	42.00/M
	30	0.2	SOT-23	BAR43SCT-ND◆	.45	3.04	14.32	3,000	42.07/M
	30	0.2	SOT-23	BAT54SFSCT-ND◆	.48	3.15	13.70	3,000	37.00/M
	30	0.2	SOT-23	BAT54CFSCT-ND◆	.48	3.15	13.70	3,000	37.00/M
	30	0.2	SOT-23	BAT54AFSCT-ND◆	.45	2.97	12.90	3,000	35.00/M
	30	0.2	SOT-23	BAT54FSCT-ND◆	.40	2.60	11.30	3,000	31.00/M
	40	0.75	SOT-23	FYV0704SMTFCT-ND◆ ***NEW!***	.46	3.62	24.77	3,000	105.00/M
	50	0.2	SOT-23	BAV74FSCT-ND◆	.48	3.15	13.70	3,000	36.99/M
	70	0.2	SOT-23	BAV70FSCT-ND◆	.48	3.15	13.70	3,000	36.99/M
	70	0.2	SOT-23	BAV99FSCT-ND◆	.49	3.20	13.90	3,000	38.00/M
	70	0.2	SOT-323	BAV99WT1GFSCT-ND◆	.43	2.94	13.84	3,000	41.00/M
	85	0.2	SOT-23	BAS16FSCT-ND◆	.42	2.78	12.10	3,000	33.00/M
	85	0.2	SOT-23	BAW56FSCT-ND◆	.49	3.20	13.90	3,000	37.53/M
	100	0.2	SOT-23	MMBD1201CT-ND◆	.46	3.04	13.20	3,000	36.00/M
	100	0.2	SOT-23	MMBD1203CT-ND◆	.38	2.58	12.16	3,000	35.72/M
	100	0.2	SOT-23	MMBD1204CT-ND◆	.41	2.75	12.96	3,000	38.07/M
	100	0.2	SOT-23	MMBD1205CT-ND◆	.40	2.69	12.64	3,000	37.00/M
	100	0.2	SOT-23	MMBD4148CCCT-ND◆	.43	2.91	13.68	3,000	40.00/M
	100	0.2	SOT-23	MMBD4148FSCT-ND◆	.44	2.90	12.60	3,000	34.00/M
	100	0.2	SOT-23	MMBD4148SECT-ND◆	.43	2.91	13.68	3,000	40.00/M
	100	0.2	SOT-23	MMBD7000FSCT-ND◆	.38	2.55	12.00	3,000	35.25/M
	100	0.2	SOT-23	MMBD914FSCT-ND◆	.44	2.92	12.70	3,000	34.00/M
	100	0.25	TO-236AB	FLLD261FSCT-ND◆	.54	3.64	17.12	3,000	50.00/M
	120	0.2	SOT-23	BAS31FSCT-ND◆	.49	3.20	13.90	3,000	37.53/M
	200	0.2	SOT-23	MMBD1403CT-ND◆	.41	2.79	13.12	3,000	38.54/M
	200	0.2	SOT-23	MMBD1501ACT-ND◆	.50	3.27	14.20	3,000	38.00/M
	200	0.2	SOT-23	MMBD1503ACT-ND◆	.46	3.09	14.56	3,000	42.77/M
	200	0.2	SOT-23	MMBD1504ACT-ND◆	.46	3.09	14.56	3,000	42.77/M
	200	0.2	SOT-23	MMBD1505ACT-ND◆	.46	3.09	14.56	3,000	42.77/M
	250	0.2	SOT-23	BAS21FSCT-ND◆	.44	2.92	12.70	3,000	34.29/M
	250	0.2	SOT-23	BAV23SFSCT-ND◆	.43	2.91	13.68	3,000	40.19/M
5	20	0.5	SOD-123	MBR0520LCT-ND◆	.61	4.11	19.36	3,000	56.87/M
	20	1	SMA	SS12FSCT-ND◆	.56	3.94	26.25	7,500	89.00/M
	30	0.5	SOD-123	MBR0530CT-ND◆	.61	4.11	19.36	3,000	57.00/M
	30	2	SMB	SS23CT-ND◆	.56	4.37	29.91	3,000	127.00/M
	40	1	SMA	SS14CT-ND◆	.58	4.10	27.30	7,500	93.00/M
	40	1	SMB	MBRS140FSCT-ND◆ ***NEW!***	.52	4.07	27.85	3,000	118.00/M
	40	2	SMB	SS24FSCT-ND◆	.56	4.37	29.91	3,000	127.00/M
	40	3	SMC	SS34FSCT-ND◆ ***NEW!***	.65	5.22	39.17	3,000	184.00/M
	40	4	SMC	MBRS340FSCT-ND◆	.72	5.78	43.33	3,000	204.00/M
	50	1	SMA	S1AFSCT-ND◆	.53	3.57	16.80	7,500	42.00/M
	50	3	SMC	S3AFSCT-ND◆	.45	4.37	29.91	3,000	127.00/M
	60	1	SMA	SS16FSCT-ND◆	.48	3.77	25.82	7,500	103.00/M
	60	2	SMB	SS26FSCT-ND◆	.62	4.91	33.58	3,000	142.00/M
	100	1	SMA	S1BFSCT-ND◆	.53	3.57	16.80	7,500	42.00/M
	100	1	SMA	EGF1BCT-ND◆	.55	4.31	29.48	7,500	117.00/M
	100	1	SMA	S100CT-ND◆	.53	4.27	32.01	7,500	141.00/M
	100	3	SMC	S3BFSCT-ND◆	.45	3.52	24.06	3,000	102.00/M
	100	3	SMC	ES3BFSCT-ND◆	.62	4.91	33.58	3,000	142.00/M
	200	1	SMA	ES1DFSCT-ND◆	.54	3.83	22.98	7,500	69.00/M
	200	2	SMB	ES2DFSCT-ND◆	.62	4.38	29.20	3,000	105.00/M
	200	3	SMC	ES3DFSCT-ND◆	.62	4.91	33.58	3,000	142.00/M
	200	3	SMC	S3DFSCT-ND◆ ***NEW!***	.45	3.52	24.06	3,000	102.00/M
	300	1	SMA	ES1FCT-ND◆	.54	3.83	22.98	7,500	69.00/M
	400	1	SMA	RS1GFSCT-ND◆ ***NEW!***	.45	3.20	19.20	7,500	58.00/M
	400	1	SMA	S1GFSCT-ND◆	.53	3.57	16.80	7,500	42.00/M
	400	1	SMA	ES1GFSCT-ND◆	.56	3.97	23.82	7,500	71.00/M
	400	3	SMC	S3GFSCT-ND◆	.45	3.52	24.06	3,000	102.00/M
	500	1	SMA	ES1HCT-ND◆	.56	3.97	23.82	7,500	71.00/M
	600	1	SMA	ES1JFSCT-ND◆	.56	3.97	23.82	7,500	71.00/M
	600	1	SMA	S1JFSCT-ND◆ ***NEW!***	.53	3.57	16.80	7,500	42.00/M
	600	3	SMC	ES3JCT-ND◆	.63	4.98	34.09	3,000	144.00/M
	600	3	SCM	S3JFSCT-ND◆	.45	3.97	23.82	3,000	102.00/M
	1,000	2	SMB	S2MFSCT-ND◆ ***NEW!***	.62	4.41	26.46	3,000	88.00/M
	1,000	1	SMA	S1MFSCT-ND◆	.58	3.93	18.48	7,500	46.00/M
	1,000	1	SMA	RS1MFSCT-ND◆	.45	3.20	19.20	7,500	58.00/M
	1,000	3	SMC	S3MFSCT-ND◆	.45	3.52	24.06	3,000	102.00/M
6	100	0.2	LL-34	FDLL4148CT-ND◆	.24	1.56	6.80	2,500	18.36/M
	100	0.2	SOD80	LL4148FSCT-ND◆	.18	1.15	5.00	2,500	14.00/M
7	150	10	TO-220	MBR20150CTTU-ND◆	1.20	10.66	84.28	—	—
	200	10	TO-220	MBR20200CTTU-ND◆	1.30	11.48	90.75	—	—
8	40	0.1	SOD-923	BAS40SLCT-ND◆	.62	4.20	19.75	8,000	55.00/M
	70	0.07	SOD-923	BAS70SLCT-ND◆	.43	3.05	18.30	8,000	55.00/M
	75	0.15	SOD-323F	1N4148WSFSCT-ND◆	.33	2.19	9.50	3,000	26.00/M
	75	0.15	SOD-323F	1N4448WSFSCT-ND◆	.36	2.35	10.20	3,000	28.00/M
	75	0.15	SOD-323F	1N914BWSCT-ND◆	.36	2.35	10.20	3,000	28.00/M
	85	0.15	SOD-923	BAS16SLCT-ND◆	.61	4.13	19.41	8,000	60.00/M
9	30	0.200	SOD-523F	BAT42XV2CT-ND◆ ***NEW!***	.51	3.38	14.70	8,000	35.00/M
	30	0.200	SOD-523F	BAT43XV2CT-ND◆ ***NEW!***	.48	3.15	13.70	8,000	32.00/M
	30	0.200	SOD-523F	BAT54XV2CT-ND◆ ***NEW!***	.43	2.94	13.84	8,000	35.00/M
	30	0.200	SOD-523F	RB521S30CT-ND◆	.38	2.58	12.16	8,000	30.00/M
	30	200	SOD-523F	RB520S30CT-ND◆	.38	2.58	12.16	8,000	30.00/M
	40	30	SOD-523F	RB751S40CT-ND◆	.38	2.58	12.16	8,000	30.00/M
	75	0.300	SOD-523F	1N4148WTCT-ND◆ ***NEW!***	.40	2.60	11.30	8,000	27.00/M
	75	0.200	SOD-523F	1N4448WTCT-ND◆	.40	2.60	11.30	8,000	27.00/M
	75	0.200	SOD-523F	1N914BWTCT-ND◆	.40	2.60	11.30	8,000	27.00/M
10	50	1.5	SDIP	DF005SCT-ND◆ ***NEW!***	.62	4.85	33.19	1,500	153.00/M
	800	1.5	SDIP	DF08SCT-ND◆ ***NEW!***	.57	4.53	33.96	1,500	175.00/M
11	200	1.5	DIP	DF02M-ND◆ ***NEW!***	.43	3.62	27.12	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND. ▲ For Tape and Box part number, change CT-ND to TB-ND.
‡ Bulk ◆ ***RoHS Compliant***

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

FAIRCHILD SEMICONDUCTOR®

Zener Diodes

Zener Volt. Vz (V)	IR (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
		DO-35					
2.4	100	1N5221B-ND‡	.27	1.77	7.70	—	—
4.3	5	1N5229BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
4.7	2	1N5230BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
5.1	5	1N5231BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
3.3	25	1N5226BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
6.0	5	1N5233BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
3.9	10	1N5228BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
6.8	3	1N5235BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
5.1	5	1N5231B-ND‡	.27	1.77	7.70	—	—
5.6	5	1N5232BFSCT-ND	.27	1.77	7.70	5,000	18.10/M
7.5	3	1N5236BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
9.1	3	1N5239BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
10	3	1N5240BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
12	0.1	1N5242BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
18	0.1	1N5248BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
15	0.1	1N5245BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
20	0.1	1N5250B-ND‡	.27	1.77	7.70	—	—
20	0.05	BZX79C20-ND‡	.27	1.77	7.70	—	—
10	0.1	1N758ACT-ND	.19	1.27	5.53	—	—
27	0.1	1N5254BFSCT-ND	.27	1.77	7.70	5,000	18.00/M
		DO-41					
4.3	3	BZX85C4V3-ND‡	.36	2.45	11.41	—	—
4.7	10	1N4732AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
5.1	10	1N4733AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
5.6	10	1N4734AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
3.3	100	1N4728AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
3.9	50	1N4730AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
7.5	10	1N4737AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
8.2	10	1N4738AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
6.2	10	1N4735AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
6.8	10	1N4736AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
10	10	1N4740AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
12	0.5	BZX85C12-ND‡	.36	2.45	11.41	—	—
11	5	1N4741AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
10	10	1N4740A-ND‡	.37	2.49	11.62	—	—
12	5	1N4742AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
13	5	1N4743AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
18	5	1N4746AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
15	5	1N4744A-ND‡	.37	2.49	11.62	—	—
15	5	1N4744AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
20	5	1N4747AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
18	5	1N4746A-ND‡	.37	2.49	11.62	—	—
27	5	1N4750AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
24	5	1N4749AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
33	5	1N4752AFSCT-ND	.42	2.82	13.28	3,000	39.00/M
		SOT-23					
3.3	5	BZX84C3V3FSCT-ND	.42	2.76	12.00	3,000	32.00/M
4.7	3	BZX84C4V7FSCT-ND	.42	2.76	12.00	3,000	32.00/M
5.6	1	BZX84C5V6FSCT-ND	.42	2.76	12.00	3,000	32.00/M
3.3	25	MMBZ5226BFSCT-ND	.42	2.76	12.00	3,000	32.00/M
6.8	2	BZX84C6V8FSCT-ND	.50	3.29	14.30	3,000	39.00/M
6.2	3	BZX84C6V2FSCT-ND	.42	2.76	12.00	3,000	32.00/M
4.3	5	MMBZ5229BFSCT-ND	.42	2.76	12.00	3,000	32.00/M
5.1	2	BZX84C5V1FSCT-ND	.42	2.76	12.00	3,000	32.00/M
5.6	5	MMBZ5232BFSCT-ND	.50	3.29	14.30	3,000	39.00/M
9.1	0.5	BZX84C9V1FSCT-ND	.50	3.27	14.20	3,000	38.00/M
6.2	5	MMBZ5234BFSCT-ND	.50	3.29	14.30	3,000	39.00/M
12	0.1	BZX84C12FSCT-ND	.49	3.22	14.00	3,000	38.00/M
10	0.2	BZX84C10FSCT-ND	.48	3.17	13.80	3,000	37.00/M
10	3	MMBZ5240BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
15	0.05	BZX84C15FSCT-ND	.48	3.17	13.80	3,000	37.00/M
12	1	MMBZ5242BFSCT-ND	.38	2.58	12.16	3,000	35.72/M
15	0.1	MMBZ5245BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
16	0.1	MMBZ5246BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
17	0.1	MMBZ5247BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
20	0.05	BZX84C20FSCT-ND	.48	3.17	13.80	3,000	37.00/M
30	0.1	MMBZ5256BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
33	0.1	MMBZ5257BFSCT-ND	.38	2.58	12.16	3,000	36.00/M
		SOD-80					
2.2	55	FLZ2V2ACT-ND	.39	2.53	11.00	2,500	30.00/M
2.2	55	FLZ2V2BCT-ND	.26	1.74	7.57	—	—
2.4	84	FLZ2V4ACT-ND	.39	2.53	11.00	2,500	30.00/M
2.4	84	FLZ2V4BCT-ND	.26	1.74	7.57	—	—
2.7	70	FLZ2V7BCT-ND	.39	2.53	11.00	2,500	30.00/M
3.0	35	FLZ3V0ACT-ND	.39	2.53	11.00	2,500	30.00/M
3.3	14	FLZ3V3ACT-ND	.39	2.53	11.00	2,500	30.00/M
3.3	14	FLZ3V3BCT-ND	.39	2.53	11.00	2,500	30.00/M
3.9	1.4	FLZ3V9ACT-ND	.39	2.53	11.00	2,500	30.00/M
3.9	1.4	FLZ3V9BCT-ND	.26	1.74	7.57	—	—
4.3	0.47	FLZ4V3BCT-ND	.39	2.53	11.00	2,500	30.00/M
4.7	0.19	FLZ4V7ACT-ND	.39	2.53	11.00	2,500	30.00/M
4.7	0.19	FLZ4V7BCT-ND	.39	2.53	11.00	2,500	30.00/M
4.7	0.19	FLZ4V7CCT-ND	.39	2.53	11.00	2,500	30.00/M
5.1	0.19	FLZ5V1ACT-ND	.39	2.53	11.00	2,500	30.00/M
5.1	0.19	FLZ5V1BCT-ND	.39	2.53	11.00	2,500	30.00/M
5.1	0.19	FLZ5V1CCT-ND	.39	2.53	11.00	2,500	30.00/M
5.6	0.75	FLZ5V6ACT-ND	.39	2.53	11.00	2,500	30.00/M
5.6	0.75	FLZ5V6BCT-ND	.39	2.53	11.00	2,500	30.00/M
5.6	0.75	FLZ5V6CCT-ND	.39	2.53	11.00	2,500	30.00/M
6.2	3.3	FLZ6V2ACT-ND	.39	2.53	11.00	2,500	30.00/M
6.2	3.3	FLZ6V2BCT-ND	.26	1.74	7.57	—	—
6.2	3.3	FLZ6V2CCT-ND	.39	2.53	11.00	2,500	30.00/M
6.8	1.1	FLZ6V8ACT-ND	.39	2.53	11.00	2,500	30.00/M
6.8	1.1	FLZ6V8BCT-ND	.26	1.74	7.57	—	—
6.8	1.1	FLZ6V8CCT-ND	.39	2.53	11.00	2,500	30.00/M
7.5	0.3	FLZ7V5ACT-ND	.26	1.74	7.57	—	—
7.5	0.3	FLZ7V5BCT-ND	.39	2.53	11.00	2,500	30.00/M
7.5	0.3	FLZ7V5CCT-ND	.39	2.53	11.00	2,500	30.00/M
8.2	0.3	FLZ8V2BCT-ND	.26	1.74	7.57	—	—
8.2	0.3	FLZ8V2CCT-ND	.39	2.53	11.00	2,500	30.00/M
9.1	0.3	FLZ9V1ACT-ND	.39	2.53	11.00	2,500	30.00/M
9.1	0.3	FLZ9V1BCT-ND	.26	1.74	7.57	—	—
9.1	0.3	FLZ9V1CCT-ND	.39	2.53	11.00	2,500	30.00/M
10	0.11	FLZ10VBCT-ND	.26	1.74	7.57	—	—
10	0.11	FLZ10VCCT-ND	.39	2.53	11.00	2,500	30.00/M
11	0.133	FLZ11VBCT-ND	.26	1.74	7.57	—	—
11	0.133	FLZ11VCCT-ND	.26	1.74	7.57	—	—
12	0.133	FLZ12VACT-ND	.39	2.53	11.00	2,500	30.00/M
12	0.133	FLZ12VBCT-ND	.39	2.53	11.00	2,500	30.00/M
12	0.133	FLZ12VCCT-ND	.39	2.53	11.00	2,500	30.00/M
13	0.133	FLZ13VBCT-ND	.39	2.53	11.00	2,500	30.00/M
15	0.133	FLZ15VACT-ND	.39	2.53	11.00	2,500	30.00/M
15	0.133	FLZ15VBCT-ND	.39	2.53	11.00	2,500	30.00/M
15	0.133	FLZ15VCCT-ND	.39	2.53	11.00	2,500	30.00/M
16	0.133	FLZ16VACT-ND	.39	2.53	11.00	2,500	30.00/M
16	0.133	FLZ16VBCT-ND	.39	2.53	11.00	2,500	30.00/M
16	0.133	FLZ16VCCT-ND	.39	2.53	11.00	2,500	30.00/M
18	0.133	FLZ18VBCT-ND	.39	2.53	11.00	2,500	30.00/M
18	0.133	FLZ18VCCT-ND	.39	2.53	11.00	2,500	30.00/M
20	0.133	FLZ20VACT-ND	.39	2.53	11.00	2,500	30.00/M
20	0.133	FLZ20VBCT-ND	.39	2.53	11.00	2,500	30.00/M
20	0.133	FLZ20VCCT-ND	.39	2.53	11.00	2,500	30.00/M
20	0.133	FLZ20VDCT-ND	.26	1.74	7.57	—	—
22	0.133	FLZ22VACT-ND	.39	2.53	11.00	2,500	30.00/M
22	0.133	FLZ22VBCT-ND	.26	1.74	7.57	—	—
22	0.133	FLZ22VCCT-ND	.39	2.53	11.00	2,500	30.00/M
24	0.133	FLZ24VCCT-ND	.26	1.74	7.57	—	—
27	0.133	FLZ27VACT-ND	.26	1.74	7.57	—	—
27	0.133	FLZ27VBCT-ND	.26	1.74	7.57	—	—
30	0.133	FLZ30VACT-ND	.39	2.53	11.00	2,500	30.00/M
30	0.133	FLZ30VBCT-ND	.26	1.74	7.57	—	—
30	0.133	FLZ30VCCT-ND	.39	2.53	11.00	2,500	30.00/M

‡ Bulk § For Tape and Reel part number, change CT-ND to TR-ND

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Diodes *(Cont.)*

Zener Volt. Vz (V)	IR (µA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
			1	10	100	Qty.	Pricing
33	0.133	FLZ33VBCT-ND	.39	2.53	11.00	2,500	30.00/M
33	0.133	FLZ33VDCT-ND	.26	1.74	7.57	—	—
36	0.133	FLZ36VACT-ND	.39	2.53	11.00	2,500	30.00/M
36	0.133	FLZ36VBCT-ND	.39	2.53	11.00	2,500	30.00/M
36	0.133	FLZ36VCCT-ND	.26	1.74	7.57	—	—
36	0.133	FLZ36VDCT-ND	.26	1.74	7.57	—	—
39	0.133	FLZ39VACT-ND	.39	2.53	11.00	2,500	30.00/M
39	0.133	FLZ39VBCT-ND	.26	1.74	7.57	—	—
39	0.133	FLZ39VCCT-ND	.26	1.74	7.57	—	—
39	0.133	FLZ39VDCT-ND	.26	1.74	7.57	—	—
SOD-123							
3.9	10	MMSZ5228BFSCT-ND	.39	2.67	12.56	3,000	37.00/M
4.3	5	MMSZ5229BFSCT-ND	.38	2.60	12.24	3,000	36.00/M
5.1	5	MMBZ5231BFSCT-ND	.50	3.29	14.30	3,000	39.00/M
5.1	5	MMSZ5231BFSCT-ND	.38	2.60	12.24	3,000	36.00/M
5.1	10	MMSZ4689CT-ND	.38	2.60	12.24	3,000	36.00/M
6.8	3	MMSZ5235BFSCT-ND	.46	3.09	14.56	3,000	43.00/M
10	3	MMSZ5240BFSCT-ND	.46	3.09	14.56	3,000	43.00/M
12	1	MMSZ5242BFSCT-ND	.46	3.09	14.56	3,000	43.00/M
15	0.1	MMSZ5245BFSCT-ND	.47	3.16	14.88	3,000	44.00/M
18	0.1	MMSZ5248BFSCT-ND	.46	3.09	14.56	3,000	43.00/M
SOD-323F							
2.4	45	MM3Z2V4BCT-ND	.47	3.06	13.30	3,000	36.00/M
2.4	45	MM3Z2V4CCT-ND	.44	2.90	12.60	3,000	34.00/M
2.7	18	MM3Z2V7BCT-ND	.47	3.06	13.30	3,000	36.00/M
2.7	18	MM3Z2V7CCT-ND	.44	2.90	12.60	3,000	34.00/M
3.0	9	MM3Z3V0BCT-ND	.47	3.06	13.30	3,000	36.00/M
3.0	9	MM3Z3V0CCT-ND	.44	2.90	12.60	3,000	34.00/M
3.3	4.5	MM3Z3V3BCT-ND	.47	3.06	13.30	3,000	36.00/M
3.3	4.5	MM3Z3V3CCT-ND	.44	2.90	12.60	3,000	34.00/M
3.6	4.5	MM3Z3V6BCT-ND	.47	3.06	13.30	3,000	36.00/M
3.6	4.5	MM3Z3V6CCT-ND	.44	2.90	12.60	3,000	34.00/M
3.9	2.7	MM3Z3V9BCT-ND	.47	3.06	13.30	3,000	36.00/M
3.9	2.7	MM3Z3V9CCT-ND	.44	2.90	12.60	3,000	34.00/M
4.3	2.7	MM3Z4V3BCT-ND	.47	3.06	13.30	3,000	36.00/M
4.3	2.7	MM3Z4V3CCT-ND	.33	2.15	9.35	—	—
4.7	2.7	MM3Z4V7BCT-ND	.47	3.06	13.30	3,000	36.00/M
4.7	2.7	MM3Z4V7CCT-ND	.44	2.90	12.60	3,000	34.00/M
5.1	1.8	MM3Z5V1BCT-ND	.47	3.06	13.30	3,000	36.00/M
5.1	1.8	MM3Z5V1CCT-ND	.44	2.90	12.60	3,000	34.00/M
5.6	0.9	MM3Z5V6BCT-ND	.47	3.06	13.30	3,000	36.00/M
5.6	0.9	MM3Z5V6CCT-ND	.44	2.90	12.60	3,000	34.00/M
6.2	2.7	MM3Z6V2BCT-ND	.47	3.06	13.30	3,000	36.00/M
6.2	2.7	MM3Z6V2CCT-ND	.33	2.15	9.35	—	—
6.8	1.8	MM3Z6V8BCT-ND	.47	3.06	13.30	3,000	36.00/M
7.5	0.9	MM3Z7V5BCT-ND	.47	3.06	13.30	3,000	36.00/M
7.5	0.9	MM3Z7V5CCT-ND	.44	2.90	12.60	3,000	34.00/M
8.2	0.63	MM3Z8V2BCT-ND	.47	3.06	13.30	3,000	36.00/M
8.2	0.63	MM3Z8V2CCT-ND	.44	2.90	12.60	3,000	34.00/M
9.1	0.45	MM3Z9V1BCT-ND	.47	3.06	13.30	3,000	36.00/M
9.1	0.45	MM3Z9V1CCT-ND	.44	2.90	12.60	3,000	34.00/M
10	0.18	MM3Z10VBCT-ND	.47	3.06	13.30	3,000	36.00/M
10	0.18	MM3Z10VCCT-ND	.44	2.90	12.60	3,000	34.00/M
11	0.9	MM3Z11VBCT-ND	.47	3.06	13.30	3,000	36.00/M
11	0.9	MM3Z11VCCT-ND	.44	2.90	12.60	3,000	34.00/M
12	0.9	MM3Z12VBCT-ND	.47	3.06	13.30	3,000	36.00/M
12	0.9	MM3Z12VCCT-ND	.44	2.90	12.60	3,000	34.00/M
13	0.9	MM3Z13VBCT-ND	.47	3.06	13.30	3,000	36.00/M
13	0.9	MM3Z13VCCT-ND	.44	2.90	12.60	3,000	34.00/M
15	0.045	MM3Z15VBCT-ND	.47	3.06	13.30	3,000	36.00/M
15	0.045	MM3Z15VCCT-ND	.44	2.90	12.60	3,000	34.00/M
16	0.045	MM3Z16VBCT-ND	.47	3.06	13.30	3,000	36.00/M
16	0.045	MM3Z16VCCT-ND	.44	2.90	12.60	3,000	34.00/M
18	0.045	MM3Z18VBCT-ND	.47	3.06	13.30	3,000	36.00/M
18	0.045	MM3Z18VCCT-ND	.44	2.90	12.60	3,000	34.00/M
20	0.045	MM3Z20VBCT-ND	.47	3.06	13.30	3,000	36.00/M
20	0.045	MM3Z20VCCT-ND	.44	2.90	12.60	3,000	34.00/M
22	0.045	MM3Z22VBCT-ND	.47	3.06	13.30	3,000	36.00/M
22	0.045	MM3Z22VCCT-ND	.44	2.90	12.60	3,000	34.00/M
24	0.045	MM3Z24VBCT-ND	.47	3.06	13.30	3,000	36.00/M
24	0.045	MM3Z24VCCT-ND	.44	2.90	12.60	3,000	34.00/M
27	0.045	MM3Z27VBCT-ND	.47	3.06	13.30	3,000	36.00/M
27	0.045	MM3Z27VCCT-ND	.44	2.90	12.60	3,000	34.00/M
30	0.045	MM3Z30VBCT-ND	.47	3.06	13.30	3,000	36.00/M
30	0.045	MM3Z30VCCT-ND	.44	2.90	12.60	3,000	34.00/M
33	0.045	MM3Z33VBCT-ND	.47	3.06	13.30	3,000	36.00/M
33	0.045	MM3Z33VCCT-ND	.44	2.90	12.60	3,000	34.00/M
36	0.045	MM3Z36VBCT-ND	.47	3.06	13.30	3,000	36.00/M
36	0.045	MM3Z36VCCT-ND	.44	2.90	12.60	3,000	34.00/M
39	0.045	MM3Z39VBCT-ND	.47	3.06	13.30	3,000	36.00/M
39	0.045	MM3Z39VCCT-ND	.44	2.90	12.60	3,000	34.00/M
43	0.045	MM3Z43VBCT-ND	.47	3.06	13.30	3,000	36.00/M
47	0.045	MM3Z47VBCT-ND	.47	3.06	13.30	3,000	36.00/M
47	0.045	MM3Z47VCCT-ND	.44	2.90	12.60	3,000	34.00/M
51	0.045	MM3Z51VCCT-ND	.44	2.90	12.60	3,000	34.00/M
56	0.045	MM3Z56VBCT-ND	.47	3.06	13.30	3,000	36.00/M
SOD-523F							
2.4	50	MM5Z2V4CT-ND	.50	3.27	14.20	8,000	33.00/M
2.7	20	MM5Z2V7CT-ND	.50	3.27	14.20	8,000	33.00/M
3.0	10	MM5Z3V0CT-ND	.50	3.27	14.20	8,000	33.00/M
3.3	5	MM5Z3V3CT-ND	.50	3.27	14.20	8,000	33.00/M
3.6	5	MM5Z3V6CT-ND	.50	3.27	14.20	8,000	33.00/M
3.9	3	MM5Z3V9CT-ND	.50	3.27	14.20	8,000	33.00/M
4.3	3	MM5Z4V3CT-ND	.50	3.27	14.20	8,000	33.00/M
4.7	3	MM5Z4V7CT-ND	.50	3.27	14.20	8,000	33.00/M
5.1	2	MM5Z5V1CT-ND	.50	3.27	14.20	8,000	33.00/M
5.6	1	MM5Z5V6CT-ND	.50	3.27	14.20	8,000	33.00/M
6.2	3	MM5Z6V2CT-ND	.50	3.27	14.20	8,000	33.00/M
6.8	2	MM5Z6V8CT-ND	.50	3.27	14.20	8,000	33.00/M
7.5	1	MM5Z7V5CT-ND	.50	3.27	14.20	8,000	33.00/M
8.2	0.7	MM5Z8V2CT-ND	.50	3.27	14.20	8,000	33.00/M
9.1	0.2	MM5Z9V1CT-ND	.50	3.27	14.20	8,000	33.00/M
10	0.1	MM5Z10VCT-ND	.50	3.27	14.20	8,000	33.00/M
11	0.1	MM5Z11VCT-ND	.50	3.27	14.20	8,000	33.00/M
12	0.1	MM5Z12VCT-ND	.50	3.27	14.20	8,000	33.00/M
13	0.1	MM5Z13VCT-ND	.50	3.27	14.20	8,000	33.00/M
15	0.05	MM5Z15VCT-ND	.50	3.27	14.20	8,000	33.00/M
16	0.05	MM5Z16VCT-ND	.50	3.27	14.20	8,000	33.00/M
18	0.05	MM5Z18VCT-ND	.50	3.27	14.20	8,000	33.00/M
20	0.05	MM5Z20VCT-ND	.50	3.27	14.20	8,000	33.00/M
22	0.05	MM5Z22VCT-ND	.50	3.27	14.20	8,000	33.00/M
24	0.05	MM5Z24VCT-ND	.50	3.27	14.20	8,000	33.00/M
27	0.05	MM5Z27VCT-ND	.50	3.27	14.20	8,000	33.00/M
30	0.05	MM5Z30VCT-ND	.50	3.27	14.20	8,000	33.00/M
33	0.05	MM5Z33VCT-ND	.50	3.27	14.20	8,000	33.00/M
36	0.05	MM5Z36VCT-ND	.50	3.27	14.20	8,000	33.00/M
39	0.05	MM5Z39VCT-ND	.50	3.27	14.20	8,000	33.00/M
43	0.05	MM5Z43VCT-ND	.50	3.27	14.20	8,000	33.00/M
47	0.05	MM5Z47VCT-ND	.50	3.27	14.20	8,000	33.00/M
51	0.05	MM5Z51VCT-ND	.50	3.27	14.20	8,000	33.00/M
56	0.05	MM5Z56VCT-ND	.50	3.27	14.20	8,000	33.00/M
62	0.05	MM5Z62VCT-ND	.50	3.27	14.20	8,000	33.00/M
68	0.05	MM5Z68VCT-ND	.50	3.27	14.20	8,000	33.00/M
75	0.05	MM5Z75VCT-ND	.50	3.27	14.20	8,000	33.00/M

‡ Bulk § For Tape and Reel part number, change CT-ND to TR-ND

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FAIRCHILD
SEMICONDUCTOR®

Ultrafast and Hyperfast Recovery Power Diodes

Fig. 1
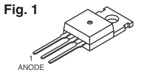

Fig. 2
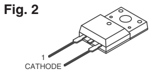

Fig. 3
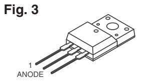

Fig. 4
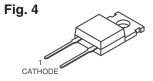

Fig. 5
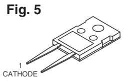

Fig. 6
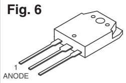

Fig. 7
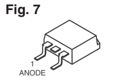

Fig. 8
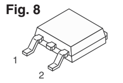

Fig. 9 ***NEW!***
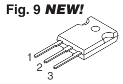

Pinning

A
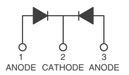

B
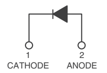

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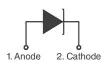

D
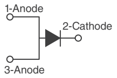

E
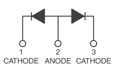

F
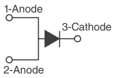

Fig.	Pinning	Peak Voltage VRRM (V)	Current IF (A)	Package	Digi-Key Part No.	Price Each		
						1	25	100
					Ultrafast			
1	A	200	15	TO-220	FFP30UP20DNTU-ND	1.73	1.39	1.22
2	B	600	8	TO-220	FFP08D60L2-ND ***NEW!***	1.33	1.18	.94
		200	15	TO-220F	FFPF15UP20STU-ND	.88	.71	.62
		200	30	TO-220F	FFPF30UP20STU-ND	1.31	1.05	.92
		200	30	TO-220F	FFPF30UP20STTU-ND ***NEW!***	1.21	.97	.85
		300	10	TO-220F	FFPF10UP30STU-ND	.93	.75	.65
		300	10	TO-220F	FFPF10UP30STTU-ND	.99	.77	.67
		600	4	TO-220F-2	FFPF04S60STU-ND	.93	.75	.65
		600	15	TO-220F-2	FFPF15S60STU-ND	1.48	1.19	1.04
		600	30	TO-220	RHR P3060-ND ***NEW!***	2.32	1.88	1.69
		600	30	TO-220F	FFPF30U60STTU-ND	1.46	1.17	1.02
		1,200	15	TO-220	RHRP15120-ND ***NEW!***	1.72	1.39	1.25
3	A	200	10	TO-220F	FFPF20UP20DNTU-ND	.97	.78	.68
		600	20	TO-220F	FFPF20UP60DNTU-ND	1.10	.88	.77
4	B	600	8	TO-220-2L	FFP08H60STU-ND	1.16	.93	.81
		600	15	TO-220-2	FFP15S60STU-ND	1.49	1.20	1.05
		600	30	TO-220-2	FFP30S60STU-ND	2.00	1.62	1.46
5	B	600	15	TO-247-2	FFH15S60STU-ND	2.12	1.71	1.54
		600	30	TO-247-2	FFH30S60STU-ND	3.09	2.50	2.25
		600	50	TO-247	RHRG5060-ND ***NEW!***	4.39	3.53	3.22
	C	400	60	TO-247-2L	FFH60UP40S-ND	3.33	2.68	2.44
		600	60	TO-247-2L	FFH60UP60S-ND ***NEW!***	3.39	2.73	2.49
6	A	100	30	TO-3P	FYA3010DNTU-ND	1.61	1.30	1.17
		300	30	TO-3P	FFA60UP30DNTU-ND	3.49	2.81	2.56
	D	350	40	TO-3P	FFA40UP35STU-ND	2.21	1.79	1.61
7	A	300	20	D2-PAK	FFB20UP30DNTMCT-ND‡	1.56	1.24	1.11
		300	20	D2-PAK	FFB20UP30DNTMTR-ND§		545.60/800	
8	D	200	20	D2-PAK	FFB20UP20STMCT-ND‡	1.35	1.07	.97
		200	20	D2-PAK	FFB20UP20STMTR-ND§		472.80/800	
	E	200	6	D-PAK	FFD06UP20SCT-ND‡	.71	.50	.43
		200	6	D-PAK	FFD06UP20STR-ND§		502.50/2,500	
		200	10	D-PAK	FFD10UP20SCT-ND‡	.67	.52	.46
		200	10	D-PAK	FFD10UP20STR-ND§		550.00/2,500	
	F	200	20	D-PAK	FFD20UP20SCT-ND‡ ***NEW!***	.96	.75	.66
		200	20	D-PAK	FFD20UP20STR-ND§ ***NEW!***		795.00/2,500	
9	A	400	60	TO-247-3L	FFH60UP40S3-ND ***NEW!***	3.39	2.73	2.49
		600	60	TO-247-3L	FFH60UP60S3-ND ***NEW!***	3.39	2.73	2.49
					Hyperfast II			
2	B	600	8	TO-220F-2L	FFPF08H60STU-ND	1.20	.97	.85
8	E	600	4	D-PAK	FFD04H60SCT-ND‡	.65	.46	.40
		600	4	D-PAK	FFD04H60STR-ND§		535.00/2,500	
					Stealth II			
2	B	600	8	TO-220F-2L	FFPF08S60STU-ND	1.35	1.08	.95

‡ Cut Tape   § Tape and Reel

Transient Voltage Suppressors

VRWM (V)	VBR (V)		IT (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§	
	Minimum	Maximum			1	25	100	Qty.	Pricing
				SA — DO-15					
5.8	6.45	7.14	10	P6KE6V8AFSCT-ND ***NEW!***	.51	8.89	30.49	4,000	143.00/M
12.8	14.3	15.8	1	P6KE15AFSCT-ND	.42	6.86	22.53	4,000	132.00/M
12.8	14.3	15.8	1	P6KE15CAFSCT-ND	.56	9.76	33.46	4,000	157.00/M
40.2	44.7	49.4	1	P6KE47CAFSCT-ND ***NEW!***	.61	9.98	32.76	4,000	139.00/M
171	190.0	210.0	1	P6KE200AFSCT-ND	.58	9.48	31.12	4,000	132.00/M
				SMB — DO-214AA					
5	6.4	7.0	10	SMBJ5V0ACT-ND	.48	7.86	25.82	3,000	109.00/M
5	6.4	7.0	10	SMBJ5V0CACT-ND ***NEW!***	.63	10.36	34.01	3,000	144.00/M
10	11.1	12.8	1	SMBJ10CAFSCT-ND ***NEW!***	.62	10.11	33.19	3,000	140.00/M
12	13.3	14.7	1	SMBJ12AFSCT-ND ***NEW!***	.60	8.79	28.35	3,000	102.00/M
12	13.3	14.7	1	SMBJ12CAFSCT-ND ***NEW!***	.55	9.04	29.68	3,000	126.00/M
15	16.7	18.5	1	SMBJ15AFSCT-ND ***NEW!***	.60	8.79	28.35	3,000	102.00/M
15	16.7	18.5	1	SMBJ15CAFSCT-ND ***NEW!***	.55	9.04	29.68	3,000	126.00/M
24	26.7	29.5	1	SMBJ24AFSCT-ND ***NEW!***	.60	8.79	28.35	3,000	102.00/M
26	28.9	31.9	1	SMBJ26CAFSCT-ND	.55	9.04	29.68	3,000	126.00/M
28	31.1	34.4	1	SMBJ28CAFSCT-ND ***NEW!***	.55	9.04	29.68	3,000	126.00/M
30	33.3	36.8	1	SMBJ30AFSCT-ND	.60	8.79	28.35	3,000	102.00/M
33	36.7	40.6	1	SMBJ33AFSCT-ND	.60	8.79	28.35	3,000	102.00/M
33	36.7	40.6	1	SMBJ33CAFSCT-ND	.55	9.04	29.68	3,000	126.00/M
36	40.0	44.2	1	SMBJ36AFSCT-ND ***NEW!***	.60	8.79	28.35	3,000	102.00/M
36	40.0	44.2	1	SMBJ36CAFSCT-ND ***NEW!***	.55	9.04	29.68	3,000	126.00/M
				SMC — DO-214AB					
5	6.4	7.0	10	SMCJ5V0ACT-ND ***NEW!***	.68	11.93	40.89	3,000	192.00/M
12	13.3	14.7	1	SMCJ12AFSCT-ND	.68	11.93	40.89	3,000	192.00/M
15	16.7	18.5	1	SMCJ15CAFSCT-ND ***NEW!***	.82	14.35	49.20	3,000	231.00/M
18	20.0	22.1	1	SMCJ18CAFSCT-ND	.76	13.34	45.74	3,000	215.00/M
26	28.9	31.9	1	SMCJ26CAFSCT-ND	.82	14.35	49.20	3,000	231.00/M
30	33.3	36.8	1	SMCJ30CAFSCT-ND	.82	14.35	49.20	3,000	231.00/M
33	36.7	40.6	1	SMCJ33AFSCT-ND ***NEW!***	.68	11.93	40.89	3,000	192.00/M
33	36.7	40.6	1	SMCJ33CAFSCT-ND	.82	14.35	49.20	3,000	231.00/M
36	40.0	44.2	1	SMCJ36AFSCT-ND ***NEW!***	.68	11.93	40.89	3,000	192.00/M
36	40.0	44.2	1	SMCJ36CAFSCT-ND	.82	14.35	49.20	3,000	231.00/M
48	53.3	58.9	1	SMCJ48AFSCT-ND ***NEW!***	.68	11.93	40.89	3,000	192.00/M
85	94.4	104.0	1	SMCJ85CAFSCT-ND	.82	14.35	49.20	3,000	231.00/M
100	111.0	123.0	1	SMCJ100AFSCT-ND	.68	11.93	40.89	3,000	192.00/M
				SOT-23					
3	5.32	5.88	20	MMBZ5V6BCT-ND	.61	8.96	28.90	3,000	104.00/M
				NEW! DO-201AE NEW!					
28.2	31.4	34.7	1	1V5KE33ACT-ND	.72	12.64	43.33	1,250	223.00/M
40.2	44.7	49.4	1	1V5KE47CACT-ND	.67	12.95	45.69	1,250	244.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND.

Bridge Rectifiers

Fig. 1
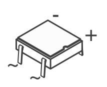

Fig. 2
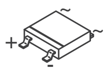

Fig. 3
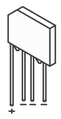

Fig. 4
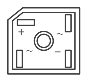

Fig.	Max. Reverse Voltage (V)	Max. Average Rectified Current (A)	Pkg.	Digi-Key Part No.	Pricing			Tape and Reel§	
					1	25	100	Qty.	Pricing
1	50	1.5	DIP	DF005M-ND	.43	7.91	27.12	—	—
	100	1.5	DIP	DF01M-ND	.43	7.91	27.12	—	—
	400	1.5	DIP	DF04M-ND	.45	8.27	28.35	—	—
	600	1.5	DIP	DF06M-ND	.45	8.27	28.35	—	—
2	100	0.5	SOIC	MB1SCT-ND† ***NEW!***	.52	8.48	27.85	3,000	118.00/M
	100	1.5	SDIP	DF01SCT-ND†	.62	10.11	33.19	1,500	153.00/M
	200	0.5	SOIC	MB2SCT-ND† ***NEW!***	.52	8.48	27.85	3,000	118.00/M
	200	1.5	SDIP	DF02SCT-ND†	.62	10.22	33.58	1,500	155.00/M
	400	0.5	SOIC	MB4SCT-ND† ***NEW!***	.57	9.36	30.73	3,000	130.00/M
	400	1.5	SDIP	DF04SCT-ND†	.53	9.20	31.55	1,500	163.00/M
	600	0.5	SOIC	MB6SCT-ND† ***NEW!***	.57	9.36	30.73	3,000	130.00/M
	800	0.5	SOIC	MB8SCT-ND†	.59	9.73	31.94	3,000	135.00/M
	1,000	1.5	SDIP	DF10SCT-ND†	.57	10.01	34.32	1,500	177.00/M
3	400	2.0	KBPM	2KBP04MFS-ND	.68	12.59	43.17	—	—
	800	8.0	KBU	KBU8KFS-ND ***NEW!***	1.41	28.22	98.78	—	—
	800	2.0	KBPM	3N258-ND	.62	11.97	41.69	—	—
4	200	25	GBPC	GBPC2502-ND	2.90	58.41	210.26	—	—
	1,000	35	GBPC	GBPC3510-ND ***NEW!***	3.06	61.69	222.08	—	—

† Cut Tape   § For Tape and Reel part number, change the CT-ND to TR-ND.

Mosfets

TO-220AB, TO-220, TO-220-3

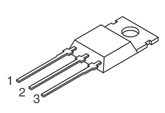

TO-220FP

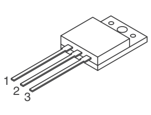

TO-247

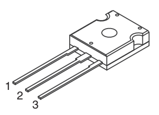

TO-251, I-PAK, TO-251-3

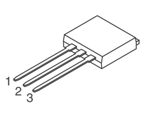

TO-252-3-11, TO-252-3

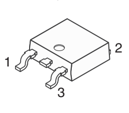

TO-252-5-3

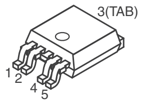

TO-262AB

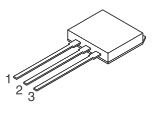

TO-262, TO-262-3

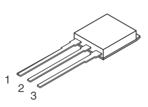

D-PAK, D2-PAK, TO-252

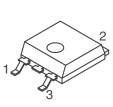

D-PAK — Bent up Leads

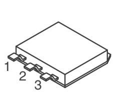

DSO-8

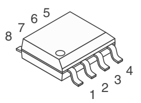

SO-8 — Single

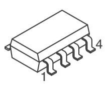

SO-8 — Dual

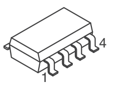

SOT-23

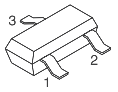

SOT-89

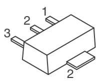

SOT-143

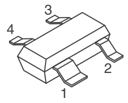

SOT-223

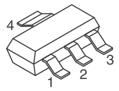

SC-59, SOT-323

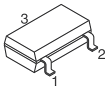

SOT-363 — Dual

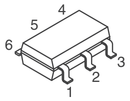

TDSON-8, TSDSON-8

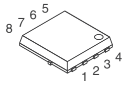

TO-263, TO-263-3

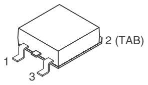

TO-263-7 *NEW!*

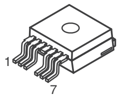

TSOP-6

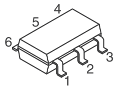

General Purpose

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	N-CH	200	0.13	21	84	125	BUZ30AIN-ND◆	2.36	2.14	1.72	—	—	—	BUZ30A
	N-CH	200	0.4	7	28	40	BUZ73IN-ND◆	1.31	1.17	.92	—	—	—	BUZ73
SOT-89	N-CH	240	6	0.29	1.16	1	BSS87INCT-ND†◆	.86	.75	.59	—	—	—	BSS87E6327
	N-CH	240	6	0.29	1.16	1	BSS87XTINCT-ND†◆	.84	.66	.57	—	—	—	BSS87E6327T
SOT-143	N-CH	12	—	0.3	—	200	BF998INCT-ND§†◆	.53	.42	.29	BF998INTR-ND§◆	3,000	120.00/M	BF998E6327
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PXTINCT-ND†◆	.69	.54	.47	—	—	—	BSP315PE6327T
	N-CH	100	6	0.37	1.48	1.79	BSP123XTINCT-ND†	.63	.47	.38	BSP123XTINTR-ND	1,000	192.00	BSP123E6327T

◆ ***RoHS Compliant*** § Dual † Cut Tape

Cool MOS® Power

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	P-CH	-60	0.3	-8.8	-35.2	42	SPP08P06PIN-ND	.89	.79	.63	—	—	—	SPP08P06P
	P-CH	-60	0.13	-18.6	-74.4	80	SPP18P06PIN-ND	1.31	1.16	.92	—	—	—	SPP18P06P
	N-CH	560	0.95	4.5	13.5	50	SPP04N50C3IN-ND	1.36	1.10	.96	—	—	—	SPP04N50C3
	N-CH	560	0.28	16	48	160	SPP16N50C3IN-ND	2.77	2.24	2.01	—	—	—	SPP16N50C3
	N-CH	650	0.95	4.5	13.5	50	SPP04N60C3IN-ND	1.51	1.21	1.06	—	—	—	SPP04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPP07N60C3IN-ND	1.86	1.50	1.35	—	—	—	SPP07N60C3
	N-CH	650	0.6	7.3	14.6	83	SPP07N60S5IN-ND	2.26	2.13	1.70	—	—	—	SPP07N60S5
	N-CH	650	0.38	11	33	125	SPP11N60C3IN-ND	2.69	2.43	1.96	—	—	—	SPP11N60C3
	N-CH	650	0.19	20.7	62.1	208	SPP20N60C3IN-ND	4.05	3.62	2.97	—	—	—	SPP20N60C3
	N-CH	800	1.3	4	12	63	SPP04N80C3IN-ND	1.90	1.54	1.38	—	—	—	SPP04N80C3
	N-CH	800	0.9	6	18	83	SPP06N80C3IN-ND	2.55	2.30	1.85	—	—	—	SPP06N80C3
	N-CH	800	0.65	8	24	104	SPP08N80C3IN-ND	2.79	2.25	2.03	—	—	—	SPP08N80C3
	N-CH	800	0.45	11	33	156	SPP11N80C3IN-ND	3.38	2.72	2.48	—	—	—	SPP11N80C3
	N-CH	800	0.29	17	51	208	SPP17N80C3IN-ND	4.96	3.99	3.63	—	—	—	SPP17N80C3
TO-220	N-CH	550	0.299	12	26	104	IPP50R299CPIN-ND	2.52	2.04	1.84	—	—	—	IPP50R299CP
	N-CH	550	0.35	10	22	89	IPP50R350CPIN-ND	2.18	1.76	1.58	—	—	—	IPP50R350CP
	N-CH	600	0.19	20.2	59	34	IPP60R190C6-ND ***NEW!***	3.40	3.04	2.50	—	—	—	IPP60R190C6
	N-CH	600	0.38	10.6	30	83	IPP60R380C6-ND ***NEW!***	2.35	2.13	1.71	—	—	—	IPP60R380C6
	N-CH	600	0.6	7.3	19	63	IPP60R600C6-ND ***NEW!***	1.67	1.51	1.22	—	—	—	IPP60R600C6
	N-CH	600	0.95	4.4	12	37	IPP60R950C6-ND ***NEW!***	1.30	1.16	.92	—	—	—	IPP60R950C6
	N-CH	650	0.250	12	40	104	IPP60R250CPIN-ND	3.18	2.56	2.34	—	—	—	IPP60R250CP
	N-CH	650	1.4	3.2	9.6	29.7	SPA03N60C3IN-ND	1.27	1.02	.89	—	—	—	SPA03N60C3
	N-CH	650	0.75	6.2	18.6	32	SPA06N60C3IN-ND	1.64	1.33	1.20	—	—	—	SPA06N60C3
	N-CH	650	0.6	7.3	21.9	32	SPA07N60C3IN-ND	1.86	1.50	1.35	—	—	—	SPA07N60C3
	N-CH	650	0.38	11	33	33	SPA11N65C3IN-ND	2.87	2.32	2.09	—	—	—	SPA11N65C3
	N-CH	650	0.75	6.2	18.6	74	SPP06N60C3IN-ND	1.64	1.33	1.20	—	—	—	SPP06N60C3
	N-CH	650	0.44	11	28	125	SPP11N60CFDIN-ND	3.09	2.50	2.25	—	—	—	SPP11N60CFD
	N-CH	650	0.38	11	33	125	SPP11N65C3IN-ND	2.83	2.29	2.06	—	—	—	SPP11N65C3
	N-CH	650	0.22	20.7	52	208	SPP20N60CFDIN-ND	4.44	3.57	3.26	—	—	—	SPP20N60CFD
	N-CH	650	0.19	20.7	62.1	208	SPP20N65C3IN-ND	4.44	3.57	3.26	—	—	—	SPP20N65C3
	N-CH	650	0.16	24.3	72.9	240	SPP24N60C3IN-ND	4.76	3.83	3.49	—	—	—	SPP24N60C3
	N-CH	800	2.7	2	6	30.5	SPA02N80C3IN-ND	1.51	1.21	1.06	—	—	—	SPA02N80C3
	N-CH	900	1.0	5.7	12	89	IPP90R1K0C3-ND ***NEW!***	2.18	1.97	1.58	—	—	—	IPP90R1K0C3
	N-CH	900	0.8	6.9	15	104	IPP90R800C3-ND ***NEW!***	2.69	2.44	1.96	—	—	—	IPP90R800C3
	N-CH	900	0.5	11	24	156	IPP90R500C3-ND ***NEW!***	3.65	3.26	2.68	—	—	—	IPP90R500C3
TO-220FP	N-CH	560	0.95	4.5	13.5	31	SPA04N50C3IN-ND	1.41	1.13	.99	—	—	—	SPA04N50C3
	N-CH	560	0.6	7.6	22.8	32	SPA08N50C3IN-ND	1.68	1.36	1.23	—	—	—	SPA08N50C3
	N-CH	560	0.38	11.6	34.8	33	SPA12N50C3IN-ND	2.31	1.87	1.68	—	—	—	SPA12N50C3
	N-CH	560	0.19	21	63	34.5	SPA21N50C3IN-ND	3.45	2.78	2.53	—	—	—	SPA21N50C3
	N-CH	560	0.19	21	63	208	SPP21N50C3IN-ND	3.45	2.78	2.53	—	—	—	SPP21N50C3
	N-CH	650	0.95	4.5	13.5	31	SPA04N60C3IN-ND	1.61	1.29	1.13	—	—	—	SPA04N60C3
	N-CH	800	1.3	4	12	38	SPA04N80C3IN-ND	2.03	1.64	1.48	—	—	—	SPA04N80C3
	N-CH	800	0.9	6	18	39	SPA06N80C3IN-ND	2.57	2.08	1.87	—	—	—	SPA06N80C3
	N-CH	800	0.65	8	24	40	SPA08N80C3IN-ND	2.96	2.39	2.15	—	—	—	SPA08N80C3
	N-CH	800	0.45	11	33	41	SPA11N80C3IN-ND	3.38	2.72	2.48	—	—	—	SPA11N80C3
	N-CH	800	0.29	17	51	42	SPA17N80C3IN-ND	4.96	3.99	3.63	—	—	—	SPA17N80C3
TO-247	N-CH	560	0.38	11.6	34.8	125	SPW12N50C3IN-ND	2.99	2.70	2.17	—	—	—	SPW12N50C3
	N-CH	560	0.28	16	48	160	SPW16N50C3IN-ND	3.09	2.49	2.27	—	—	—	SPW16N50C3
	N-CH	560	0.19	21	63	208	SPW21N50C3IN-ND	4.05	3.26	2.97	—	—	—	SPW21N50C3
	N-CH	560	0.11	32	96	284	SPW32N50C3IN-ND	6.83	5.61	5.06	—	—	—	SPW32N50C3
	N-CH	560	0.07	52	156	417	SPW52N50C3IN-ND	11.15	9.15	8.26	—	—	—	SPW52N50C3
	N-CH	600	0.07	53	159	391	IPW60R070C6-ND ***NEW!***	11.73	10.56	8.69	—	—	—	IPW60R070C6
	N-CH	600	0.19	20.2	59	151	IPW60R190C6-ND ***NEW!***	4.06	3.63	2.98	—	—	—	IPW60R190C6
	N-CH	600	0.38	11	22	125	SPW11N60S5IN-ND	4.25	3.80	3.12	—	—	—	SPW11N60S5

† Cut Tape

(Continued)

Cool MOS® Power *(Cont.)*

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-247	N-CH	600	0.118	34	85	313	SPW35N60CFDIN-ND	8.85	7.26	6.56	—	—	—	SPW35N60CFD
	N-CH	600	0.083	46	115	417	SPW47FN60CFDIN-ND	13.09	11.01	10.12	—	—	—	SPW47N60CFD
	N-CH	650	0.045	60	230	431	IPW60R045CPIN-ND	11.88	9.99	9.18	—	—	—	IPW60R045CP
	N-CH	650	0.075	39	103	313	IPW60R075CPIN-ND	12.39	10.17	9.18	—	—	—	IPW60R075CP
	N-CH	650	0.38	11	33	125	SPW11N60C3IN-ND	3.17	2.55	2.33	—	—	—	SPW11N60C3
	N-CH	650	0.44	11	28	125	SPW11N60CFDIN-ND	3.49	2.81	2.56	—	—	—	SPW11N60CFD
	N-CH	650	0.19	20.7	62.1	208	SPW20N60C3IN-ND	4.76	4.25	3.49	—	—	—	SPW20N60C3
	N-CH	650	0.22	20.7	52	208	SPW20N60CFDIN-ND	5.16	4.15	3.78	—	—	—	SPW20N60CFD
	N-CH	650	0.16	24.3	72.9	240	SPW24N60C3IN-ND	5.35	4.31	3.92	—	—	—	SPW24N60C3
	N-CH	650	0.1	34.6	103.8	313	SPW35N60C3IN-ND	8.14	6.68	6.03	—	—	—	SPW35N60C3
	N-CH	650	0.07	47	141	415	SPW47N60C3IN-ND	11.22	9.44	8.67	—	—	—	SPW47N60C3
	N-CH	800	0.45	11	33	156	SPW11N80C3IN-ND	4.01	3.22	2.94	—	—	—	SPW11N80C3
	N-CH	800	0.29	17	51	208	SPW17N80C3IN-ND	5.95	4.79	4.36	—	—	—	SPW17N80C3
	N-CH	900	1.2	5.1	10	83	IPW90R1K2C3-ND ***NEW!***	2.52	2.28	1.84	—	—	—	IPW90R1K2C3
	N-CH	900	0.8	6.9	15	104	IPW90R800C3-ND ***NEW!***	3.06	2.73	2.24	—	—	—	IPW90R800C3
	N-CH	900	0.5	11	24	156	IPW90R500C3-ND ***NEW!***	4.37	3.91	3.20	—	—	—	IPW90R500C3
TO-251	N-CH	650	6	0.8	1.6	11	SPU01N60C3IN-ND	.88	.71	.62	—	—	—	SPU01N60C3
TO-262	N-CH	650	0.19	20.7	62.1	208	SPI20N60C3IN-ND	4.05	3.26	2.97	—	—	—	SPI20N60C3
	N-CH	650	0.19	20.7	62.1	208	SPI20N65C3IN-ND	4.44	3.57	3.26	—	—	—	SPI20N65C3
D-PAK	N-CH	560	1.4	3.2	9.6	38	SPD03N50C3INCT-ND†	1.45	1.15	.98	—	—	—	SPD03N50C3
	N-CH	560	0.6	7.6	22.8	83	SPD08N50C3INCT-ND†	1.75	1.51	1.23	SPD08N50C3INTR-ND	2,500	676.00/M	SPD08N50C3
	N-CH	650	1.4	3.2	9.6	38	SPD03N60C3INCT-ND†	1.22	1.09	.87	SPD03N60C3INTR-ND	2,500	448.00/M	SPD03N60C3
D2-PAK	N-CH	650	1.4	3.2	9.6	38	SPB03N60C3INCT-ND†	1.38	1.24	.98	SPB03N60C3INTR-ND	1,000	543.00	SPB03N60C3
	N-CH	650	0.95	4.5	13.5	50	SPB04N60C3INCT-ND†	1.64	1.47	1.17	SPB04N60C3INTR-ND	1,000	647.00	SPB04N60C3
	N-CH	650	0.38	11	33	125	SPB11N60C3INCT-ND†	3.19	2.74	2.24	SPB11N60C3INTR-ND	1,000	1324.00	SPB11N60C3
	N-CH	800	0.29	17	51	227	SPB17N80C3INCT-ND†	5.31	4.79	3.90	SPB17N80C3INTR-ND	1,000	2479.00	SPB17N80C3T
TO-252	N-CH	600	0.38	10.6	30	83	IPD60R380C6INCT-ND† ***NEW!***	2.54	2.19	1.79	IPD60R380C6INTR-ND ***NEW!***	2,500	982.00/M	IPD60R380C6
	N-CH	600	0.6	7.3	19	63	IPD60R600C6INCT-ND† ***NEW!***	1.76	1.52	1.24	IPD60R600C6INTR-ND ***NEW!***	2,500	680.00/M	IPD60R600C6
	N-CH	600	0.95	4.4	12	37	IPD60R950C6INCT-ND† ***NEW!***	1.31	1.18	.94	IPD60R950C6INTR-ND ***NEW!***	2,500	483.00/M	IPD60R950C6
	N-CH	600	0.95	4.5	9	50	SPD04N60S5INCT-ND†	1.85	1.47	1.25	—	—	—	SPD04N60S5
	N-CH	650	6	0.8	1.6	11	SPD01N60C3INCT-ND†	1.08	.86	.73	—	—	—	SPD01N60C3
	N-CH	650	0.75	6.2	18.6	74	SPD06N60C3INCT-ND†	1.85	1.66	1.32	SPD06N60C3INTR-ND	2,500	682.00/M	SPD06N60C3
TO-263	N-CH	560	0.95	4.5	13.5	50	SPB04N50C3INCT-ND†	1.59	1.42	1.13	SPB04N50C3INTR-ND	1,000	626.00	SPB04N50C3
	N-CH	560	0.38	11.6	34.8	125	SPB12N50C3INCT-ND†	2.60	2.24	1.83	SPB12N50C3INTR-ND	1,000	1079.00	SPB12N50C3
	N-CH	560	0.28	16	48	160	SPB16N50C3INCT-ND†	3.10	2.66	2.17	SPB16N50C3INTR-ND	1,000	1283.00	SPB16N50C3
	N-CH	560	0.19	21	63	208	SPB21N50C3INCT-ND†	3.70	3.33	2.72	SPB21N50C3INTR-ND	1,000	1725.00	SPB21N50C3
	N-CH	600	0.19	20.2	59	151	IPB60R190C6INCT-ND† ***NEW!***	3.64	3.28	2.68	IPB60R190C6INTR-ND ***NEW!***	1,000	1701.00	IPB60R190C6
	N-CH	600	3	1.8	3.2	25	SPB02N60S5INCT-ND†	1.00	.90	.72	—	—	—	SPB02N60S5
	N-CH	600	1.4	3.2	5.7	38	SPB03N60S5INCT-ND†	1.22	1.09	.87	—	—	—	SPB03N60S5
	N-CH	600	0.95	4.5	9	50	SPB04N60S5INCT-ND†	1.47	1.32	1.05	—	—	—	SPB04N60S5

† Cut Tape

OptiMOS®

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	N-CH	30	5.9	80	320	150	SPP80N03S2L-06IN-ND◆	1.10	.98	.78	—	—	—	SPP80N03S2L-06
TO-220	N-CH	55	24.8	25	100	48	IPP25N06S3-25IN-ND◆	.97	.76	.66	—	—	—	IPP25N06S3-25
	N-CH	55	21.3	25	100	50	IPP25N06S3L-22IN-ND◆	.97	.76	.66	—	—	—	IPP25N06S3L-22
	N-CH	55	15.4	45	180	65	IPP45N06S3-16IN-ND◆	1.08	.96	.76	—	—	—	IPP45N06S3-16
	N-CH	55	13.1	45	180	65	IPP45N06S3L-13IN-ND◆	1.08	.96	.76	—	—	—	IPP45N06S3L-13
	N-CH	55	8.8	77	308	107	IPP77N06S3-09IN-ND◆	1.42	1.14	1.00	—	—	—	IPP77N06S3-09
	N-CH	55	2.7	100	400	300	IPP100N06S3L-03IN-ND◆	3.33	2.68	2.44	—	—	—	IPP100N06S3L-03
	N-CH	55	3.5	100	400	214	IPP100N06S3L-04IN-ND◆	2.44	1.98	1.78	—	—	—	IPP100N06S3L-04
	N-CH	60	4.7	100	400	300	IPP050N06NGIN-ND◆	3.08	2.75	2.26	—	—	—	IPP050N06N G
	N-CH	60	11.7	75	300	158	IPP120N06NGIN-ND◆	1.55	1.41	1.13	—	—	—	IPP120N06N G
TO-220-3	N-CH	30	14.6	22	88	31	IPP22N03S4L-15-ND◆ ***NEW!***	.80	.70	.54	—	—	—	IPP22N03S4L-15
	N-CH	30	3.4	80	320	94	IPP80N03S4L-04-ND◆ ***NEW!***	1.12	.99	.79	—	—	—	IPP80N03S4L-04
	N-CH	30	2.4	80	320	136	IPP80N03S4L-03-ND◆ ***NEW!***	1.54	1.37	1.08	—	—	—	IPP80N03S4L-03
	N-CH	40	6.2	80	280	79	IPP70N04S3-07-ND◆ ***NEW!***	1.07	.95	.75	—	—	—	IPP70N04S3-07
	N-CH	40	5.7	80	320	100	IPP80N04S3-06-ND◆ ***NEW!***	1.22	1.08	.86	—	—	—	IPP80N04S3-06
	N-CH	40	4.1	80	320	136	IPP80N04S3-04-ND◆ ***NEW!***	1.62	1.44	1.14	—	—	—	IPP80N04S3-04
	N-CH	40	3.5	80	320	188	IPP80N04S3-03-ND◆ ***NEW!***	1.72	1.56	1.25	—	—	—	IPP80N04S3-03
	N-CH	40	2.8	100	400	214	IPP100N04S3-03-ND◆ ***NEW!***	2.20	1.99	1.60	—	—	—	IPP100N04S3-03
	N-CH	40	2.3	120	480	300	IPP120N04S3-02-ND◆ ***NEW!***	2.92	2.64	2.12	—	—	—	IPP120N04S3-02
	N-CH	100	20.9	50	200	100	IPP50N10S3L-16-ND◆ ***NEW!***	1.54	1.37	1.08	—	—	—	IPP50N10S3L-16
	N-CH	100	11.6	70	280	125	IPP70N10S3-12-ND◆ ***NEW!***	1.72	1.53	1.21	—	—	—	IPP70N10S3-12
	N-CH	100	5.1	100	400	300	IPP100N10S3-05-ND◆ ***NEW!***	3.05	2.73	2.24	—	—	—	IPP100N10S3-05
TO-252-3	N-CH	40	7.5	50	200	68	IPD50N04S3-08CT-ND†◆ ***NEW!***	1.22	1.09	.87	IPD50N04S3-08TR-ND◆ ***NEW!***	2,500	448.00/M	IPD50N04S3-08
	N-CH	40	6.0	82	280	79	IPD70N04S3-07CT-ND†◆ ***NEW!***	1.31	1.18	.94	IPD70N04S3-07TR-ND◆ ***NEW!***	2,500	483.00/M	IPD70N04S3-07
	N-CH	40	5.2	90	320	100	IPD80N04S3-06CT-ND†◆ ***NEW!***	1.55	1.39	1.11	IPD80N04S3-06TR-ND◆ ***NEW!***	2,500	572.00/M	IPD80N04S3-06
	N-CH	40	3.6	90	360	136	IPD90N04S3-04CT-ND†◆ ***NEW!***	1.88	1.62	1.32	IPD90N04S3-04TR-ND◆ ***NEW!***	2,500	725.00/M	IPD90N04S3-04
	N-CH	60	40	27	108	68	IPD400N06NGINCT-ND†◆	.94	.82	.65	—	—	—	IPD400N06N G
	N-CH	60	80	16	64	47	IPD800N06NGINCT-ND†◆	.78	.68	.54	—	—	—	IPD800N06N G
	N-CH	100	31	30	120	57	IPD30N10S3L-34CT-ND†◆ ***NEW!***	1.02	.89	.70	IPD30N10S3L-34TR-ND◆ ***NEW!***	2,500	337.00/M	IPD30N10S3L-34
	N-CH	100	15	50	200	100	IPD50N10S3L-16CT-ND†◆ ***NEW!***	1.39	1.25	.99	IPD50N10S3L-16TR-ND◆ ***NEW!***	2,500	512.00/M	IPD50N10S3L-16
	N-CH	100	11.1	70	280	125	IPD70N10S3-12CT-ND†◆ ***NEW!***	1.72	1.54	1.23	IPD70N10S3-12TR-ND◆ ***NEW!***	2,500	633.00/M	IPD70N10S3-12
	N-CH	100	11.5	70	280	125	IPD70N10S3L-12CT-ND†◆ ***NEW!***	1.72	1.54	1.23	IPD70N10S3L-12TR-ND◆ ***NEW!***	2,500	633.00/M	IPD70N10S3L-12
TO-252-3-11	N-CH	30	9.0	30	120	42	IPD30N03S4L-09INCT-ND†◆ ***NEW!***	.70	.61	.48	IPD30N03S4L-09INTR-ND◆ ***NEW!***	2,500	231.00/M	IPD30N03S4L-09
	N-CH	30	3.3	90	360	94	IPD90N03S4L-03INCT-ND†◆ ***NEW!***	1.01	.91	.72	IPD90N03S4L-03INTR-ND◆ ***NEW!***	2,500	372.00/M	IPD90N03S4L-03
	P-CH	-30	10.5	-50	-200	58	IPD50P03P4L-11INCT-ND†◆ ***NEW!***	1.07	.96	.76	IPD50P03P4L-11INTR-ND◆ ***NEW!***	2,500	393.00/M	IPD50P03P4L-11
	P-CH	-30	6.8	-80	-320	88	IPD80P03P4L-07INCT-ND†◆ ***NEW!***	1.31	1.17	.93	IPD80P03P4L-07INTR-ND◆ ***NEW!***	2,500	482.00/M	IPD80P03P4L-07
	P-CH	-30	4.5	-90	-360	137	IPD90P03P4-04INCT-ND†◆ ***NEW!***	1.86	1.60	1.31	IPD90P03P4-04INTR-ND◆ ***NEW!***	2,500	717.00/M	IPD90P03P4-04
	P-CH	-30	4.1	-90	-360	137	IPD90P03P4L-04INCT-ND†◆ ***NEW!***	1.77	1.52	1.24	IPD90P03P4L-04INTR-ND◆ ***NEW!***	2,500	683.00/M	IPD90P03P4L-04

◆ ***RoHS Compliant*** § Dual † Cut Tape

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OptiMOS® *(Cont.)*

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-252-5-3	P-CH	-30	7	-50	-200	150	SPD50P03LGINCT-ND†◆	2.45	2.10	1.72	SPD50P03LGINTR-ND◆	2,500	864.00/M	SPD50P03L G
TO-262	N-CH	55	15.4	45	180	65	IPI45N06S3-16IN-ND◆	1.08	.96	.76	—	—	—	IPI45N06S3-16
	N-CH	55	8.8	77	308	107	IPI77N06S3-09IN-ND◆	1.39	1.24	.98	—	—	—	IPI77N06S3-09
	N-CH	55	5.1	80	320	165	IPI80N06S3-05IN-ND◆	1.93	1.75	1.41	—	—	—	IPI80N06S3-05
	N-CH	55	6.5	80	320	135	IPI80N06S3-07IN-ND◆	1.58	1.43	1.15	—	—	—	IPI80N06S3-07
	N-CH	55	4.5	80	320	165	IPI80N06S3L-05IN-ND◆	1.93	1.75	1.41	—	—	—	IPI80N06S3L-05
	N-CH	55	5.6	80	320	136	IPI80N06S3L-06IN-ND◆	1.58	1.43	1.15	—	—	—	IPI80N06S3L-06
	N-CH	55	7.6	80	320	105	IPI80N06S3L-08IN-ND◆	1.42	1.26	1.00	—	—	—	IPI80N06S3L-08
	N-CH	55	4.1	100	400	214	IPI100N06S3-04IN-ND◆	2.36	2.13	1.71	—	—	—	IPI100N06S3-04
	N-CH	55	2.7	100	400	300	IPI100N06S3L-03IN-ND◆	3.05	2.46	2.24	—	—	—	IPI100N06S3L-03
	N-CH	55	3.5	100	400	214	IPI100N06S3L-04IN-ND◆	2.36	2.13	1.71	—	—	—	IPI100N06S3L-04
TO-262-3	N-CH	30	14.6	22	88	31	IPI22N03S4L-15-ND◆ ***NEW!***	.80	.70	.54	—	—	—	IPI22N03S4L-15
	N-CH	30	3.4	80	320	94	IPI80N03S4L-04-ND◆ ***NEW!***	1.12	.99	.79	—	—	—	IPI80N03S4L-04
	N-CH	30	2.4	80	320	136	IPI80N03S4L-03-ND◆ ***NEW!***	1.54	1.37	1.08	—	—	—	IPI80N03S4L-03
	N-CH	40	6.2	80	280	79	IPI70N04S3-07-ND◆ ***NEW!***	1.07	.95	.75	—	—	—	IPI70N04S3-07
	N-CH	40	5.4	80	320	100	IPI80N04S3-06-ND◆ ***NEW!***	1.22	1.08	.86	—	—	—	IPI80N04S3-06
	N-CH	40	3.8	80	320	136	IPI80N04S3-04-ND◆ ***NEW!***	1.62	1.44	1.14	—	—	—	IPI80N04S3-04
	N-CH	40	3.7	80	320	300	IPI80N04S2-H4-ND◆ ***NEW!***	2.90	2.62	2.11	—	—	—	IPI80N04S2-H4
	N-CH	40	3.7	80	320	300	IPI80N04S2-04-ND◆ ***NEW!***	3.08	2.76	2.26	—	—	—	IPI80N04S2-04
	N-CH	40	3.5	80	320	188	IPI80N04S3-03-ND◆ ***NEW!***	1.72	1.56	1.25	—	—	—	IPI80N04S3-03
	N-CH	40	2.3	100	400	214	IPI100N04S3-03-ND◆ ***NEW!***	2.20	1.99	1.60	—	—	—	IPI100N04S3-03
	N-CH	40	2.0	120	480	300	IPI120N04S3-02-ND◆ ***NEW!***	2.92	2.64	2.12	—	—	—	IPI120N04S3-02
	N-CH	100	15.4	50	200	100	IPI50N10S3L-16-ND◆ ***NEW!***	1.54	1.37	1.08	—	—	—	IPI50N10S3L-16
	N-CH	100	11.3	70	280	125	IPI70N10S3-12-ND◆ ***NEW!***	1.72	1.53	1.21	—	—	—	IPI70N10S3-12
	N-CH	100	4.8	100	400	300	IPI100N10S3-05-ND◆ ***NEW!***	3.05	2.73	2.24	—	—	—	IPI100N10S3-05
D-PAK	N-CH	30	6.7	30	120	136	SPD30N03S2L07INCT-ND†	1.24	1.11	.89	—	—	—	SPD30N03S2L-07
	N-CH	30	10	30	120	100	SPD30N03S2L10INCT-ND†	1.03	.80	.69	—	—	—	SPD30N03S2L-10
	N-CH	30	20	30	120	60	SPD30N03S2L20INCT-ND†	.78	.61	.53	—	—	—	SPD30N03S2L-20
	N-CH	30	6.4	50	200	136	SPD50N03S2L06INCT-ND†◆	1.65	1.48	1.18	—	—	—	SPD50N03S2L-06
	N-CH	30	6.4	50	200	136	SPD50N03S2L06XTINCT-ND†◆	1.69	1.45	1.18	SPD50N03S2L06XTINTR-ND◆	2,500	737.76/M	SPD50N03S2L-06T
	N-CH	30	4.2	100	400	150	SPD100N03S2L-INCT-ND†	2.17	1.87	1.52	SPD100N03S2L-INTR-ND	2,500	837.00/M	SPD100N03S2L-04
D2-PAK	N-CH	30	12.9	42	248	83	SPB42N03S2L13INCT-ND†	.99	.89	.71	SPB42N03S2L13INTR-ND	1,000	402.60	SPB42N03S2L-13
	N-CH	30	3	100	400	300	SPB100N03S203XTINCT-ND†◆	2.97	2.68	2.18	—	—	—	SPB100N03S203T
DSO-8	P-CH	-30	8	-12.6	-60	1.79	BSO080P03SINCT-ND ***NEW!***	1.69	1.52	1.21	BSO080P03SINTR-ND ***NEW!***	2,500	624.00/M	BSO080P03S
	N-CH	55	35	5	20	2	BSO604NS2CT-ND§†◆ ***NEW!***	1.21	1.09	.87	BSO604NS2TR-ND§◆ ***NEW!***	2,500	447.00/M	BSO604NS2
SO-8	P-CH	-20	21	-8.2	-32.8	2	BSO203PINCT-ND§†	1.87	1.67	1.33	—	—	—	BSO203P
	N-CH	30	13	11.1	44.5	2.5	BSO4410INCT-ND†	.93	.81	.64	—	—	—	BSO4410
	N-CH	30	13	11.1	44.5	2.5	BSO4410XTINCT-ND†◆	.94	.84	.67	BSO4410XTINTR-ND◆	2,500	378.76/M	BSO4410T
	N-CH	30	20	8	32	2	BSO4804XTINCT-ND§†◆	1.67	1.33	1.13	—	—	—	BSO4804T
SOT-323	P-CH	-20	1.2	-0.39	-1.56	0.25	BSS223PWINCT-ND†◆	.54	.39	.26	BSS223PWINTR-ND◆	3,000	86.00/M	BSS223PW L6327
TDSON-8	P-CH	-30	8	-30	-120	89	BSC080P03LS GCT-ND†◆ ***NEW!***	2.61	2.25	1.83	BSC080P03LS GTR-ND◆ ***NEW!***	5,000	888.00/M	BSC080P03LS G
	P-CH	-30	13	-22.5	-90	69	BSC130P03LS GINCT-ND†◆ ***NEW!***	1.81	1.56	1.27	BSC130P03LS GINTR-ND◆ ***NEW!***	5,000	672.00/M	BSC130P03LS G
	P-CH	-30	20	-12.5	-50	63	BSC200P03LS GINCT-ND†◆ ***NEW!***	1.72	1.55	1.23	BSC200P03LS GINTR-ND◆ ***NEW!***	5,000	603.00/M	BSC200P03LS G
TO-263	N-CH	55	15.4	45	180	65	IPB45N06S3-16INCT-ND†◆	1.17	1.05	.84	—	—	—	IPB45N06S3-16
	N-CH	55	13.1	45	180	65	IPB45N06S3L-13INCT-ND†◆	1.32	1.05	.90	—	—	—	IPB45N06S3L-13
	N-CH	55	4.5	80	320	165	IPB80N06S3L-05INCT-ND†◆	2.83	2.23	1.89	IPB80N06S3L-05INTR-ND◆	1,000	977.00	IPB80N06S3L-05
	N-CH	55	5.6	80	320	136	IPB80N06S3L-06INCT-ND†◆	1.96	1.68	1.37	—	—	—	IPB80N06S3L-06
	N-CH	55	4.1	100	400	214	IPB100N06S3-04INCT-ND†◆	3.31	2.61	2.21	—	—	—	IPB100N06S3-04
	N-CH	55	3.5	100	400	214	IPB100N06S3L-04INCT-ND†◆	2.76	2.37	1.94	—	—	—	IPB100N06S3L-04
	N-CH	60	4.4	100	400	300	IPB048N06LGINCT-ND†◆	3.24	2.92	2.38	IPB048N06LGINTR-ND◆	1,000	1512.00	IPB048N06L G
	N-CH	60	4.7	100	400	300	IPB050N06NGINCT-ND†◆	3.24	2.92	2.38	—	—	—	IPB050N06N G
	N-CH	60	7	80	320	214	IPB070N06LGINCT-ND†◆	3.09	2.43	2.07	—	—	—	IPB070N06L G
	N-CH	60	7.7	80	320	214	IPB080N06NGINCT-ND†◆	2.43	2.09	1.71	IPB080N06NGINTR-ND◆	1,000	1007.00	IPB080N06N G
	N-CH	60	11.7	75	300	158	IPB120N06NGINCT-ND†◆	1.75	1.51	1.23	—	—	—	IPB120N06N G
	N-CH	100	4.8	100	400	300	IPB100N10S3-05CT-ND†◆ ***NEW!***	3.27	2.95	2.40	IPB100N10S3-05TR-ND◆ ***NEW!***	1,000	1527.00	IPB100N10S3-05
TO-263-3	N-CH	30	14.6	22	88	31	IPB22N03S4L-15INCT-ND†◆ ***NEW!***	.88	.76	.60	IPB22N03S4L-15INTR-ND◆ ***NEW!***	1,000	319.00	IPB22N03S4L-15
	N-CH	30	2.4	80	320	136	IPB80N03S4L-02INCT-ND†◆ ***NEW!***	1.67	1.50	1.19	IPB80N03S4L-02INTR-ND◆ ***NEW!***	1,000	658.00	IPB80N03S4L-02
	N-CH	40	6.2	80	280	79	IPB70N04S3-07CT-ND†◆ ***NEW!***	1.16	1.04	.83	IPB70N04S3-07TR-ND◆ ***NEW!***	1,000	459.00	IPB70N04S3-07
	N-CH	40	3.2	80	320	188	IPB80N04S3-03CT-ND†◆ ***NEW!***	1.94	1.67	1.36	IPB80N04S3-03TR-ND◆ ***NEW!***	1,000	804.00	IPB80N04S3-03
	N-CH	40	3.8	80	320	136	IPB80N04S3-04CT-ND†◆ ***NEW!***	2.06	1.77	1.44	IPB80N04S3-04TR-ND◆ ***NEW!***	1,000	852.00	IPB80N04S3-04
	N-CH	40	5.4	80	320	100	IPB80N04S3-06CT-ND†◆ ***NEW!***	1.68	1.50	1.20	IPB80N04S3-06TR-ND◆ ***NEW!***	1,000	662.00	IPB80N04S3-06
	N-CH	40	2.5	100	400	214	IPB100N04S3-03CT-ND†◆ ***NEW!***	2.49	2.14	1.74	IPB100N04S3-03TR-ND◆ ***NEW!***	1,000	1030.00	IPB100N04S3-03
	N-CH	40	2.0	120	480	300	IPB120N04S3-02CT-ND†◆ ***NEW!***	3.30	2.83	2.31	IPB120N04S3-02TR-ND◆ ***NEW!***	1,000	1365.00	IPB120N04S3-02
	N-CH	100	15.4	50	200	100	IPB50N10S3L-16INCT-ND†◆ ***NEW!***	1.67	1.50	1.19	IPB50N10S3L-16INTR-ND◆ ***NEW!***	1,000	658.00	IPB50N10S3L-16
	N-CH	100	11.3	70	280	125	IPB70N10S3-12INCT-ND†◆ ***NEW!***	1.87	1.68	1.33	IPB70N10S3-12INTR-ND◆ ***NEW!***	1,000	738.00	IPB70N10S3-12
TO-263-7	N-CH	40	2.1	160	640	214	IPB160N04S3-H2CT-ND†◆ ***NEW!***	3.27	2.81	2.29	IPB160N04S3-H2TR-ND◆ ***NEW!***	1,000	1355.00	IPB160N04S3-H2
	N-CH	40	1.5	180	720	300	IPB180N04S3-02CT-ND†◆ ***NEW!***	3.67	3.31	2.70	IPB180N04S3-02TR-ND◆ ***NEW!***	1,000	1715.00	IPB180N04S3-02
TSOP-6	P-CH	-20	41	-6	-24	2	BSL207SPXTINCT-ND†◆	.69	.60	.48	BSL207SPXTINTR-ND◆	3,000	223.00/M	BSL207SP L6327
	P-CH	-20	67	-4.7	-18.8	2	BSL211SPL6327INCT-ND†◆	.72	.58	.44	BSL211SPL6327INTR-ND◆	3,000	186.00/M	BSL211SP L6327
	P-CH	-20	67	-4.7	-18.8	2	BSL211SPXTINCT-ND†◆	.51	.42	.31	—	—	—	BSL211SPT
	P-CH	-30	43	-5.5	-22	2	BSL307SPL6327INCT-ND†◆	.80	.64	.49	BSL307SPL6327INTR-ND◆	3,000	237.00/M	BSL307SP L6327

◆ ***RoHS Compliant*** § Dual † Cut Tape

OptiMOS® 2

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	N-CH	25	4.6	80	385	94	IPP05N03LAIN-ND	.86	.80	.68	—	—	—	IPP05N03LA
TO-220	N-CH	100	5.1	100	400	300	IPP05CN10NGIN-ND◆	4.19	3.75	3.07	—	—	—	IPP05CN10N G
	N-CH	100	8.2	95	380	167	IPP08CN10NGIN-ND◆	2.74	2.48	2.00	—	—	—	IPP08CN10N G
	N-CH	100	16	53	212	100	IPP16CN10NGIN-ND◆	1.97	1.79	1.44	—	—	—	IPP16CN10N G
	N-CH	100	49	20	80	44	IPP50CN10NGIN-ND◆	1.35	1.20	.95	—	—	—	IPP50CN10N G
	N-CH	600	99	31	93	255	IPP60R099CPIN-ND◆	7.58	6.22	5.61	—	—	—	IPP60R099CP
	N-CH	600	299	11	34	96	IPP60R299CPIN-ND◆	2.96	2.39	2.15	—	—	—	IPP60R299CP
TO-220-3	N-CH	100	3.9	100	400	300	IPP04CN10NGIN-ND◆	6.21	5.55	4.55	—	—	—	IPP04CN10NG
TO-251	N-CH	25	5.9	30	210	94	IPU06N03LAGIN-ND	.71	.67	.57	—	—	—	IPU06N03LAG
	N-CH	25	6.5	30	210	83	IPU07N03LAIN-ND	1.24	1.11	.87	—	—	—	IPU07N03LA
	N-CH	25	9.3	30	210	63	IPU09N03LAGIN-ND◆	.60	.56	.48	—	—	—	IPU09N03LAG
	N-CH	25	12.8	30	210	47	IPU13N03LAGIN-ND◆	.52	.49	.42	—	—	—	IPU13N03LAG
TO-252-3-11	N-CH	25	3.2	90	360	115	IPD03N03LAGINCT-ND†◆	3.53	2.78	2.36	—	—	—	IPD03N03LA G
	N-CH	30	4.1	50	200	115	IPD04N03LBGINCT-ND†◆	2.58	2.03	1.73	—	—	—	IPD04N03LB G
	N-CH	30	5.7	50	350	83	IPD06N03LAGINCT-ND†◆	1.79	1.42	1.21	—	—	—	IPD06N03LAG
	N-CH	30	6.1	50	200	83	IPD06N03LBGINCT-ND†◆	1.97	1.56	1.33	—	—	—	IPD06N03LB G
	N-CH	30	11.6	30	120	52	IPD12N03LBGINCT-ND†◆	1.26	1.00	.86	—	—	—	IPD12N03LB G
	N-CH	25	13	30	210	46	IPD13N03LAGINCT-ND†◆	1.21	.96	.82	—	—	—	IPD13N03LAG
	N-CH	30	13.6	30	120	31	IPD30N03S4L-14CT-ND†◆ ***NEW!***	.80	.65	.49	IPD30N03S4L-14TR-ND◆ ***NEW!***	2,500	227.00/M	IPD30N03S4L-14
	N-CH	30	4.3	70	280	68	IPD70N03S4L-04CT-ND†◆ ***NEW!***	1.07	.93	.73	IPD70N03S4L-04TR-ND◆ ***NEW!***	2,500	352.00/M	IPD70N03S4L-04

◆ ***RoHS Compliant*** § Dual † Cut Tape

(Continued)

Digi Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

OptiMOS® 2 *(Cont.)*

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-252-3-11	N-CH	30	2.2	90	360	136	IPD90N03S4L-02CT-ND†◆ ***NEW!***	1.47	1.32	1.05	IPD90N03S4L-02TR-ND◆ ***NEW!***	2,500	540.00/M	IPD90N03S4L-02
	N-CH	30	3.8	90	350	115	IPDH4N03LAGINCT-ND†◆	1.63	1.40	1.14	IPDH4N03LAGINTR-ND◆	2,500	711.26/M	IPDH4N03LAG
	N-CH	30	6.0	50	350	71	IPDH6N03LAGINCT-ND†◆	1.79	1.42	1.21	—	—	—	IPDH9N03LAG
TO-262AB	N-CH	25	5.9	50	350	83	IPB06N03LAINCT-ND†	1.70	1.53	1.22	—	—	—	IPB06N03LA
	N-CH	25	3.9	80	385	107	IPI04N03LAIN-ND	1.72	1.53	1.21	—	—	—	IPI04N03LA
D2-PAK	N-CH	25	3.9	80	385	107	IPB04N03LAINCT-ND†	2.03	1.75	1.43	IPB04N03LAINTR-ND	1,000	842.00	IPB04N03LA
	N-CH	25	3.9	80	385	107	IPB04N03LAXTINCT-ND†◆	2.03	1.75	1.43	IPB04N03LAXTINTR-ND◆	1,000	842.00	IPB04N03LAT
	N-CH	25	4.6	80	385	94	IPB05N03LAINCT-ND†	1.80	1.55	1.27	IPB05N03LAINTR-ND	1,000	652.75	IPB05N03LA
	N-CH	25	4.6	80	385	94	IPB05N03LAXTINCT-ND†◆	1.49	1.28	1.05	IPB05N03LAXTINTR-ND◆	1,000	652.75	IPB05N03LAT
	N-CH	25	8.9	50	350	63	IPB09N03LAINCT-ND†	1.26	1.00	.85	—	—	—	IPB09N03LA
D-PAK Bent up Leads	N-CH	25	5.4	50	350	94	IPF05N03LAGINCT-ND†◆	1.50	1.34	1.07	IPF05N03LAGINTR-ND◆	2,500	605.00/M	IPF05N03LAG
	N-CH	25	13.3	30	210	46	IPF13N03LAGINCT-ND†	1.22	.97	.83	—	—	—	IPF13N03LAG
DSO-8	N-CH	20	30	5.4	26	1.4	BSO330N02K GINCT-ND§†◆ ***NEW!***	.90	.78	.62	BSO330N02K GINTR-ND§◆ ***NEW!***	2,500	297.00/M	BSO330N02K G
	N-CH	30	6.8	12	60	1.56	BSO072N03SINCT-ND†◆	1.69	1.52	1.21	BSO072N03SINTR-ND◆	2,500	624.00/M	BSO072N03S
	N-CH	30	11.9	9	44	1.56	BSO119N03SINCT-ND†◆	1.09	.98	.78	—	—	—	BSO119N03S
	N-CH	30	15	7.6	36	1.4	BSO150N03INCT-ND†◆	1.86	1.67	1.32	BSO150N03INTR-ND◆	2,500	684.00/M	BSO150N03
	N-CH	30	20	6.6	32	1.4	BSO200N03INCT-ND†◆	1.24	1.12	.89	—	—	—	BSO200N03
	N-CH	30	20	7	35	1.56	BSO200N03SINCT-ND†◆	1.01	.88	.69	—	—	—	BSO200N03S
	N-CH	30	35	5	24	1.4	BSO350N03INCT-ND†◆	1.33	1.20	.95	BSO350N03INTR-ND◆	2,500	491.00/M	BSO350N03
SOT-23	P-CH	-20	150	-1.5	-6	0.5	BSS215P L6327CT-ND†◆ ***NEW!***	.57	.45	.31	BSS215P L6327TR-ND◆ ***NEW!***	3,000	116.00/M	BSS215P L6327
	P-CH	-30	150	-1.5	-6	0.5	BSS315P L6327CT-ND†◆ ***NEW!***	.60	.43	.29	BSS315P L6327TR-ND◆ ***NEW!***	3,000	93.00/M	BSS315P L6327
	N-CH	20	50	2.5	10	0.5	BSS205N L6327INCT-ND†◆ ***NEW!***	.44	.35	.24	BSS205N L6327INTR-ND◆ ***NEW!***	3,000	101.00/M	BSS205N L6327
SOT-363	P/N-CH	-20/20	1200/350	-0.53/0.95	-2.1/3.8	0.5	BSD235C L6327CT-ND†◆ ***NEW!***	.38	.30	.21	BSD235C L6327TR-ND◆ ***NEW!***	3,000	94.00/M	BSD235C L6327
	N-CH	30	160	1.4	5.6	0.5	BSD316SN L6327INCT-ND†◆ ***NEW!***	.55	.39	.26	BSD316SN L6327INTR-ND◆ ***NEW!***	3,000	93.00/M	BSD316SN L6327
	N-CH	20	140	1.5	6	0.5	BSD214SN L6327INCT-ND†◆ ***NEW!***	.58	.41	.28	BSD214SN L6327INTR-ND◆ ***NEW!***	3,000	98.00/M	BSD214SN L6327
	N-CH	20	350	0.95	3.8	0.5	BSD235N L6327INCT-ND§†◆ ***NEW!***	.49	.35	.23	BSD235N L6327INTR-ND§◆ ***NEW!***	3,000	83.00/M	BSD235N L6327
TDSON-8	N-CH	20	2.6	100	200	78	BSC026N02KS GCT-ND†◆ ***NEW!***	1.81	1.62	1.29	BSC026N02KS GTR-ND◆ ***NEW!***	5,000	632.00/M	BSC026N02KS G
	N-CH	20	4.6	80	200	48	BSC046N02KS GCT-ND†◆ ***NEW!***	1.63	1.46	1.16	BSC046N02KS GTR-ND◆ ***NEW!***	5,000	571.00/M	BSC046N02KS G
	N-CH	25	2.0	100	200	104	BSC020N025SGINCT-ND†◆	3.97	3.27	2.76	—	—	—	BSC020N025S G
	N-CH	25	2.9	100	200	78	BSC029N025SGINCT-ND†◆	2.18	1.87	1.53	—	—	—	BSC029N025S G
	N-CH	30	4.2	95	200	62.5	BSC042N03SGINCT-ND†◆	2.50	1.97	1.67	—	—	—	BSC042N03S G
	N-CH	30	7.9	40	160	60	BSC079N03SGINCT-ND†◆	2.13	1.68	1.43	—	—	—	BSC079N03SG
	N-CH	100	75	13	52	26	BSC750N10ND GCT-ND§†◆ ***NEW!***	1.69	1.51	1.20	BSC750N10ND GTR-ND§◆ ***NEW!***	5,000	590.00/M	BSC750N10ND G
TO-263	N-CH	25	2.7	80	385	150	IPB03N03LAGINCT-ND†◆	2.53	2.18	1.78	—	—	—	IPB03N03LA G
	N-CH	30	2.8	80	320	150	IPB03N03LBGINCT-ND†◆	2.79	2.39	1.96	—	—	—	IPB03N03LB G
	N-CH	30	5.0	80	320	94	IPB05N03LBGINCT-ND†◆	2.37	1.86	1.58	—	—	—	IPB05N03LB G
	N-CH	55	2.7	100	400	300	IPB100N06S3L-03INCT-ND†◆	3.57	3.22	2.62	IPB100N06S3L-03INTR-ND◆	1,000	1666.00	IPB100N06S3L-03
TO-263-3	N-CH	30	3.4	80	320	94	IPB80N03S4L-03CT-ND†◆ ***NEW!***	1.21	1.09	.87	IPB80N03S4L-03TR-ND◆ ***NEW!***	1,000	479.00	IPB80N03S4L-03
TSOP-6	P-CH	-20	150	-1.5	-6	0.5	BSL215P L6327INCT-ND§†◆ ***NEW!***	.76	.61	.46	BSL215P L6327INTR-ND§◆ ***NEW!***	3,000	213.00/M	BSL215P L6327
	P/N-CH	-20/20	150/140	-1.5/1.5	-6/6	0.5	BSL215C L6327INCT-ND†◆ ***NEW!***	.67	.54	.41	BSL215C L6327INTR-ND◆ ***NEW!***	3,000	190.00/M	BSL215C L6327
	P-CH	-30	150	-1.5	-6	0.5	BSL315P L6327INCT-ND§†◆ ***NEW!***	.72	.58	.44	BSL315P L6327INTR-ND§◆ ***NEW!***	3,000	203.00/M	BSL315P L6327
	P/N-CH	-30/30	270/280	-1.5/1.4	-6/5.6	0.5	BSL316C L6327CT-ND†◆ ***NEW!***	.71	.57	.43	BSL316C L6327TR-ND◆ ***NEW!***	3,000	180.00/M	BSL316C L6327
	N-CH	20	22	7.5	30	2	BSL202SN L6327CT-ND†◆ ***NEW!***	.82	.66	.49	BSL202SN L6327TR-ND◆ ***NEW!***	3,000	206.00/M	BSL202SN L6327
	N-CH	20	50	2.5	10	0.5	BSL205N L6327INCT-ND§†◆ ***NEW!***	.71	.57	.43	BSL205N L6327INTR-ND§◆ ***NEW!***	3,000	200.00/M	BSL205N L6327
	N-CH	20	140	1.5	6	0.5	BSL214N L6327CT-ND§†◆ ***NEW!***	.64	.52	.39	BSL214N L6327TR-ND§◆ ***NEW!***	3,000	165.00/M	BSL214N L6327
	N-CH	20	22	7.5	30	2	BSL802SN L6327INCT-ND†◆ ***NEW!***	.72	.58	.43	BSL802SN L6327INTR-ND◆ ***NEW!***	3,000	202.00/M	BSL802SN L6327
	N-CH	30	25	7.1	28	2	BSL302SN L6327INCT-ND†◆ ***NEW!***	.74	.60	.45	BSL302SN L6327INTR-ND◆ ***NEW!***	3,000	209.00/M	BSL302SN L6327
	N-CH	30	57	2.3	9	0.5	BSL306N L6327INCT-ND§†◆ ***NEW!***	.72	.58	.44	BSL306N L6327INTR-ND§◆ ***NEW!***	3,000	203.00/M	BSL306N L6327
SC-59	N-CH	20	21	3.8	15.2	0.5	BSR202N L6327CT-ND†◆ ***NEW!***	.68	.55	.41	BSR202N L6327TR-ND◆ ***NEW!***	3,000	175.00/M	BSR202N L6327
	N-CH	20	23	3.7	14.8	0.5	BSR802N L6327INCT-ND†◆ ***NEW!***	.67	.54	.40	BSR802N L6327INTR-ND◆ ***NEW!***	3,000	188.00/M	BSR802N L6327

◆ ***RoHS Compliant*** § Dual † Cut Tape

OptiMOS® 3

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220-3	N-CH	30	3.4	80	400	94	IPP034N03LGIN-ND†	1.56	1.39	1.10	—	—	—	IPP034N03L G
	N-CH	30	4.2	70	400	79	IPP042N03LGIN-ND†	1.33	1.18	.94	—	—	—	IPP042N03L G
	N-CH	30	5.5	50	350	68	IPP055N03LGIN-ND†	1.18	1.05	.83	—	—	—	IPP055N03L G
	N-CH	30	6.5	50	350	56	IPP065N03LGIN-ND†	1.05	.93	.74	—	—	—	IPP065N03L G
	N-CH	30	9.6	35	245	42	IPP096N03LGIN-ND†	.93	.83	.66	—	—	—	IPP096N03L G
	N-CH	30	11.4	30	210	38	IPP114N03LGIN-ND†	.91	.81	.64	—	—	—	IPP114N03L G
	N-CH	30	14.7	20	140	31	IPP147N03LGIN-ND†	1.00	.88	.68	—	—	—	IPP147N03L G
	N-CH	60	2.1	120	480	250	IPP024N06N3 G-ND† ***NEW!***	3.91	3.50	2.87	—	—	—	IPP024N06N3 G
	N-CH	60	3.4	90	360	167	IPP037N06L3 G-ND† ***NEW!***	2.33	2.11	1.69	—	—	—	IPP037N06L3 G
	N-CH	75	5.2	80	320	150	IPP052NE7N3 G-ND† ***NEW!***	2.62	2.37	1.91	—	—	—	IPP052NE7N3 G
	N-CH	75	2.3	120	480	300	IPP023NE7N3 G-ND† ***NEW!***	6.50	5.81	4.76	—	—	—	IPP023NE7N3 G
	N-CH	80	2.8	100	400	300	IPP028N08N3 G-ND† ***NEW!***	5.51	4.92	4.04	—	—	—	IPP028N08N3 G
	N-CH	80	5.4	80	320	150	IPP057N08N3 G-ND† ***NEW!***	2.39	2.17	1.74	—	—	—	IPP057N08N3 G
	N-CH	100	4.2	100	400	214	IPP045N10N3 G-ND† ***NEW!***	3.41	3.05	2.50	—	—	—	IPP045N10N3 G
	N-CH	100	7.2	80	320	150	IPP072N10N3 G-ND† ***NEW!***	2.41	2.18	1.76	—	—	—	IPP072N10N3 G
	N-CH	120	4.8	100	400	300	IPP048N12N3 G-ND† ***NEW!***	4.78	4.27	3.50	—	—	—	IPP048N12N3 G
	N-CH	150	7.5	100	400	300	IPP075N15N3 G-ND† ***NEW!***	6.50	5.81	4.76	—	—	—	IPP075N15N3 G
	N-CH	150	53	21	84	68	IPP530N15N3 G-ND† ***NEW!***	1.62	1.44	1.14	—	—	—	IPP530N15N3 G
I-PAK	N-CH	30	3.9	50	350	94	IPU039N03LGIN-ND†	1.26	1.12	.88	—	—	—	IPU039N03L G
TO-251-3	N-CH	30	3.1	90	400	94	IPS031N03LGIN-ND†	1.26	1.12	.88	—	—	—	IPS031N03L G
	N-CH	30	4	90	400	79	IPS040N03LGIN-ND†	.92	.82	.65	—	—	—	IPS040N03L G
	N-CH	30	5	50	350	68	IPS050N03LGIN-ND†	.90	.79	.61	—	—	—	IPS050N03L G
	N-CH	30	6	50	350	56	IPS060N03LGIN-ND†	.76	.67	.52	—	—	—	IPS060N03L G
	N-CH	30	9	40	280	42	IPS090N03LGIN-ND†	.68	.60	.47	—	—	—	IPS090N03L G
	N-CH	30	10.5	35	245	38	IPS105N03LGIN-ND†	.67	.59	.45	—	—	—	IPS105N03L G
	N-CH	30	13.5	30	210	31	IPS135N03LGIN-ND†	.71	.60	.45	—	—	—	IPS135N03L G
	N-CH	30	6	50	350	56	IPU060N03LGIN-ND†	.76	.67	.52	—	—	—	IPU060N03L G
TO-252-3-11	N-CH	30	3.1	90	400	94	IPD031N03M GINCT-ND ***NEW!***	1.28	1.15	.91	IPD031N03M GINTR-ND ***NEW!***	2,500	503.00/M	IPD031N03M G
	N-CH	30	4	90	400	79	IPD040N03LGINCT-ND	1.00	.90	.72	IPD040N03LGINTR-ND	2,500	369.00/M	IPD040N03LG
	N-CH	30	5	50	350	68	IPD050N03LGINCT-ND	.99	.86	.68	IPD050N03LGINTR-ND	2,500	326.00/M	IPD050N03LG
	N-CH	30	7.5	50	350	47	IPD075N03LGINCT-ND	.80	.69	.55	IPD075N03LGINTR-ND	2,500	263.00/M	IPD075N03LG
	N-CH	30	10.5	35	245	38	IPD105N03LGINCT-ND	.73	.64	.50	IPD105N03LGINTR-ND	2,500	242.00/M	IPD105N03LG
TO-252-3	N-CH	30	6	50	350	56	IPD060N03LGINCT-ND	.84	.73	.58	IPD060N03LGINTR-ND	2,500	276.00/M	IPD060N03LG
	N-CH	30	9	40	280	42	IPD090N03LGINCT-ND	.75	.65	.52	IPD090N03LGINTR-ND	2,500	248.00/M	IPD090N03LG
	N-CH	30	13.5	30	210	31	IPD135N03LGINCT-ND	.61	.54	.42	IPD135N03LGINTR-ND	2,500	203.00/M	IPD135N03LG
	N-CH	60	3.4	100	400	167	IPD034N06N3 GINCT-ND ***NEW!***	2.60	2.23	1.82	IPD034N06N3 GINTR-ND ***NEW!***	2,500	1002.00/M	IPD034N06N3 G
	N-CH	150	20	50	200	150	IPD200N15N3 GCT-ND ***NEW!***	2.82	2.42	1.98	IPD200N15N3 GTR-ND ***NEW!***	2,500	1088.00/M	IPD200N15N3 G
DSO-8	N-CH	30	3.3	17	154	1.56	BSO033N03MS GINCT-ND ***NEW!***	1.22	1.09	.87	BSO033N03MS GINTR-ND ***NEW!***	2,500	448.00/M	BSO033N03MS G
	N-CH	30	5.1	14	126	1.56	BSO051N03MS GINCT-ND ***NEW!***	1.08	.94	.74	BSO051N03MS GINTR-ND ***NEW!***	2,500	356.00/M	BSO051N03MS G
	N-CH	30	6.5	13	112	1.56	BSO065N03MS GINCT-ND ***NEW!***	1.03	.90	.71	BSO065N03MS GINTR-ND ***NEW!***	2,500	341.00/M	BSO065N03MS G
	N-CH	30	8.3	11	98	1.56	BSO083N03MS GINCT-ND ***NEW!***	.99	.86	.68	BSO083N03MS GINTR-ND ***NEW!***	2,500	325.00/M	BSO083N03MS G
	N-CH	30	11	10	85	1.56	BSO110N03MS GINCT-ND ***NEW!***	.87	.76	.60	BSO110N03MS GINTR-ND ***NEW!***	2,500	288.00/M	BSO110N03MS G

§ Dual † Tube

(Continued)

Infineon Mosfets

OptiMOS® 3 *(Cont.)*

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
DSO-8	N-CH	30	13	11.1	78	1.56	BSO130N03MS GCT-ND ***NEW!***	.78	.68	.54	BSO130N03MS GTR-ND ***NEW!***	2,500	257.00/M	BSO130N03MS G
	N-CH	30	22	7.7	54	1.4	BSO220N03MD GCT-ND§ ***NEW!***	.78	.68	.54	BSO220N03MD GTR-ND§ ***NEW!***	2,500	258.00/M	BSO220N03MD G
	N-CH	30	22	7	60	1.56	BSO220N03MS GINCT-ND ***NEW!***	.66	.58	.46	BSO220N03MS GINTR-ND ***NEW!***	2,500	219.00/M	BSO220N03MS G
TDSON-8	N-CH	30	1.4	100	400	139	BSC014N03LS GCT-ND ***NEW!***	2.35	2.02	1.65	BSC014N03LS GTR-ND ***NEW!***	5,000	874.00/M	BSC014N03LS G
	N-CH	30	2	100	400	125	BSC016N03MSGINCT-ND	2.32	1.99	1.63	BSC016N03MSGINTR-ND	5,000	860.00/M	BSC016N03MSG
	N-CH	30	2.5	100	400	96	BSC020N03MSGINCT-ND	1.71	1.54	1.22	BSC020N03MSGINTR-ND	5,000	599.00/M	BSC020N03MSG
	N-CH	30	2.5	100	400	83	BSC025N03LSGINCT-ND	1.61	1.44	1.15	BSC025N03LSGINTR-ND	5,000	562.00/M	BSC025N03LSG
	N-CH	30	3	100	400	83	BSC025N03MSGINCT-ND	1.61	1.44	1.15	BSC025N03MSGINTR-ND	5,000	562.00/M	BSC025N03MSG
	N-CH	30	3.8	100	400	69	BSC030N03MSGINCT-ND	1.26	1.13	.90	BSC030N03MSGINTR-ND	5,000	440.00/M	BSC030N03MSG
	N-CH	30	4.2	93	372	57	BSC042N03LSGINCT-ND	1.10	.98	.78	BSC042N03LSGINTR-ND	5,000	383.00/M	BSC042N03LSG
	N-CH	30	5.4	93	372	57	BSC042N03MSGINCT-ND	1.10	.98	.78	BSC042N03MSGINTR-ND	5,000	383.00/M	BSC042N03MSG
	N-CH	30	5	80	320	50	BSC050N03LSGINCT-ND	1.08	.94	.74	BSC050N03LSGINTR-ND	5,000	331.00/M	BSC050N03LSG
	N-CH	30	6.3	80	320	50	BSC050N03MSGINCT-ND	1.08	.94	.74	BSC050N03MSGINTR-ND	5,000	331.00/M	BSC050N03MSG
	N-CH	30	5.7	71	284	45	BSC057N03LSGINCT-ND	1.03	.90	.71	BSC057N03LSGINTR-ND	5,000	317.00/M	BSC057N03LSG
	N-CH	30	7.2	71	284	45	BSC057N03MSGINCT-ND	1.03	.90	.71	BSC057N03MSGINTR-ND	5,000	317.00/M	BSC057N03MSG
	N-CH	30	7.2	20	80	57	BSC072N03LD GCT-ND§ ***NEW!***	1.55	1.39	1.11	BSC072N03LD GTR-ND§ ***NEW!***	5,000	542.00/M	BSC072N03LD G
	N-CH	30	8	53	212	35	BSC080N03LSGINCT-ND	.99	.86	.68	BSC080N03LSGINTR-ND	5,000	303.00/M	BSC080N03LSG
	N-CH	30	10.2	53	212	35	BSC080N03MSGINCT-ND	.99	.86	.68	BSC080N03MSGINTR-ND	5,000	303.00/M	BSC080N03MSG
	N-CH	30	9	48	192	32	BSC090N03LSGINCT-ND	.92	.80	.63	BSC090N03LSGINTR-ND	5,000	283.00/M	BSC090N03LSG
	N-CH	30	11.2	48	192	32	BSC090N03MSGINCT-ND	.92	.80	.63	BSC090N03MSGINTR-ND	5,000	283.00/M	BSC090N03MSG
	N-CH	30	10	44	176	30	BSC100N03LSGINCT-ND	.87	.76	.60	BSC100N03LSGINTR-ND	5,000	268.00/M	BSC100N03LSG
	N-CH	30	12	44	176	30	BSC100N03MSGINCT-ND	.87	.76	.60	BSC100N03MSGINTR-ND	5,000	268.00/M	BSC100N03MSG
	N-CH	30	12	39	156	28	BSC120N03LSGINCT-ND	.78	.68	.54	BSC120N03LSGINTR-ND	5,000	239.00/M	BSC120N03LSG
	N-CH	30	14	39	156	28	BSC120N03MSGINCT-ND	.78	.68	.54	BSC120N03MSGINTR-ND	5,000	239.00/M	BSC120N03MSG
	N-CH	30	15	20	80	26	BSC150N03LD GCT-ND§ ***NEW!***	1.14	1.02	.82	BSC150N03LD GTR-ND§ ***NEW!***	5,000	399.00/M	BSC150N03LD G
	N-CH	30	3.5	40	160	69	BSZ035N03LSGINCT-ND	1.22	1.09	.87	BSZ035N03LSGINTR-ND	5,000	426.00/M	BSZ035N03LSG
	N-CH	30	4.3	40	160	69	BSZ035N03MSGINCT-ND	1.22	1.09	.87	BSZ035N03MSGINTR-ND	5,000	426.00/M	BSZ035N03MSG
	N-CH	30	5	40	160	50	BSZ050N03LSGINCT-ND	1.08	.94	.74	BSZ050N03LSGINTR-ND	5,000	331.00/M	BSZ050N03LSG
	N-CH	30	6.4	40	160	48	BSZ050N03MSGINCT-ND	1.08	.94	.74	BSZ050N03MSGINTR-ND	5,000	331.00/M	BSZ050N03MSG
	N-CH	30	5.8	40	160	45	BSZ058N03LSGINCT-ND	1.03	.90	.71	BSZ058N03LSGINTR-ND	5,000	317.00/M	BSZ058N03LSG
	N-CH	30	7.2	40	160	45	BSZ058N03MSGINCT-ND	1.03	.90	.71	BSZ058N03MSGINTR-ND	5,000	317.00/M	BSZ058N03MSG
	N-CH	30	8.8	40	160	35	BSZ088N03LSGINCT-ND	.99	.86	.68	BSZ088N03LSGINTR-ND	5,000	303.00/M	BSZ088N03LSG
	N-CH	30	11	40	160	35	BSZ088N03MSGINCT-ND	.99	.86	.68	BSZ088N03MSGINTR-ND	5,000	303.00/M	BSZ088N03MSG
	N-CH	30	10	40	160	30	BSZ100N03LSGINCT-ND	.87	.76	.60	BSZ100N03LSGINTR-ND	5,000	268.00/M	BSZ100N03LSG
	N-CH	30	13	40	160	30	BSZ100N03MSGINCT-ND	.87	.76	.60	BSZ100N03MSGINTR-ND	5,000	268.25/M	BSZ100N03MSG
	N-CH	30	13	35	140	25	BSZ130N03LSGINCT-ND	.85	.73	.58	BSZ130N03LSGINTR-ND	5,000	259.00/M	BSZ130N03LSG
	N-CH	30	17	35	140	25	BSZ130N03MSGINCT-ND	.85	.73	.58	—	—	—	BSZ130N03MSG
	N-CH	40	1.6	100	400	139	BSC016N04LS GCT-ND ***NEW!***	2.72	2.33	1.91	BSC016N04LS GTR-ND ***NEW!***	5,000	1010.00/M	BSC016N04LS G
	N-CH	40	1.7	100	400	139	BSC017N04NS GCT-ND ***NEW!***	2.72	2.33	1.91	BSC017N04NS GTR-ND ***NEW!***	5,000	1010.00/M	BSC017N04NS G
	N-CH	40	2.7	100	400	83	BSC027N04LS GCT-ND ***NEW!***	1.71	1.53	1.22	BSC027N04LS GTR-ND ***NEW!***	5,000	597.00/M	BSC027N04LS G
	N-CH	40	3.0	100	400	83	BSC030N04NS GCT-ND ***NEW!***	1.71	1.53	1.22	BSC030N04NS GTR-ND ***NEW!***	5,000	598.00/M	BSC030N04NS G
	N-CH	40	5.4	81	324	57	BSC054N04NS GCT-ND ***NEW!***	1.19	1.07	.85	BSC054N04NS GTR-ND ***NEW!***	5,000	416.00/M	BSC054N04NS G
	N-CH	40	9.3	49	196	35	BSC093N04LS GCT-ND ***NEW!***	.98	.85	.68	BSC093N04LS GTR-ND ***NEW!***	5,000	302.00/M	BSC093N04LS G
	N-CH	60	2.8	100	400	139	BSC028N06LS3 GCT-ND ***NEW!***	2.67	2.30	1.88	BSC028N06LS3 GTR-ND ***NEW!***	5,000	993.00/M	BSC028N06LS3 G
	N-CH	60	3.1	100	400	139	BSC031N06NS3 GCT-ND ***NEW!***	3.07	2.63	2.15	BSC031N06NS3 GTR-ND ***NEW!***	5,000	1139.00/M	BSC031N06NS3 G
	N-CH	60	6.7	50	200	69	BSC067N06LS3 GINCT-ND ***NEW!***	1.25	1.12	.89	BSC067N06LS3 GINTR-ND ***NEW!***	5,000	472.00/M	BSC067N06LS3 G
	N-CH	60	10	50	200	50	BSC100N06LS3 GCT-ND ***NEW!***	1.05	.95	.75	BSC100N06LS3 GTR-ND ***NEW!***	5,000	369.00/M	BSC100N06LS3 G
	N-CH	60	11	50	200	50	BSC110N06NS3 GCT-ND ***NEW!***	1.05	.95	.75	BSC110N06NS3 GTR-ND ***NEW!***	5,000	369.00/M	BSC110N06NS3 G
	N-CH	80	5.7	100	400	114	BSC057N08NS3 GCT-ND ***NEW!***	2.12	1.82	1.49	BSC057N08NS3 GTR-ND ***NEW!***	5,000	789.00/M	BSC057N08NS3 G
	N-CH	80	12.3	55	220	66	BSC123N08NS3 GCT-ND ***NEW!***	1.39	1.25	.99	BSC123N08NS3 GTR-ND ***NEW!***	5,000	487.00/M	BSC123N08NS3 G
	N-CH	80	34	23	92	32	BSC340N08NS3 GCT-ND ***NEW!***	.99	.86	.68	BSC340N08NS3 GTR-ND ***NEW!***	5,000	305.00/M	BSC340N08NS3 G
	N-CH	80	12.3	40	160	66	BSZ123N08NS3GINCT-ND	1.39	1.25	.99	BSZ123N08NS3GINTR-ND	5,000	487.00/M	BSZ123N08NS3G
	N-CH	100	6	90	360	125	BSC060N10NS3 GCT-ND ***NEW!***	3.27	2.81	2.30	BSC060N10NS3 GTR-ND ***NEW!***	5,000	1216.00/M	BSC060N10NS3 G
	N-CH	150	19	50	200	125	BSC190N15NS3 GCT-ND ***NEW!***	3.07	2.77	2.26	BSC190N15NS3 GTR-ND ***NEW!***	5,000	1306.00/M	BSC190N15NS3 G
TSDSON-8	N-CH	40	4.0	40	160	69	BSZ040N04LSGINCT-ND ***NEW!***	1.39	1.24	.99	BSZ040N04LSGINTR-ND ***NEW!***	5,000	485.00/M	BSZ040N04LSG
	N-CH	40	4.2	40	160	69	BSZ042N04NSGINCT-ND ***NEW!***	1.39	1.24	.99	BSZ042N04NSGINTR-ND ***NEW!***	5,000	485.00/M	BSZ042N04NSG
	N-CH	40	9.7	40	160	35	BSZ097N04LSGINCT-ND ***NEW!***	.98	.85	.68	BSZ097N04LSGINTR-ND ***NEW!***	5,000	302.00/M	BSZ097N04LSG
	N-CH	40	10.5	40	160	35	BSZ105N04NSGINCT-ND ***NEW!***	.98	.85	.68	BSZ105N04NSGINTR-ND ***NEW!***	5,000	302.00/M	BSZ105N04NSG
	N-CH	60	6.7	20	80	69	BSZ067N06LS3GINCT-ND ***NEW!***	1.35	1.21	.96	BSZ067N06LS3GINTR-ND ***NEW!***	5,000	472.00/M	BSZ067N06LS3G
	N-CH	60	10	20	80	50	BSZ100N06LS3GINCT-ND ***NEW!***	1.19	1.07	.85	BSZ100N06LS3GINTR-ND ***NEW!***	5,000	417.00/M	BSZ100N06LS3G
	N-CH	60	11	20	80	50	BSZ110N06NS3GINCT-ND ***NEW!***	1.05	.95	.75	BSZ110N06NS3GINTR-ND ***NEW!***	5,000	369.00/M	BSZ110N06NS3G
	N-CH	100	16	40	160	63	BSZ160N10NS3 GINCT-ND ***NEW!***	1.80	1.62	1.29	BSZ160N10NS3 GINTR-ND ***NEW!***	5,000	631.00/M	BSZ160N10NS3 G
	N-CH	100	44	18	72	29	BSZ440N10NS3 GINCT-ND ***NEW!***	1.12	1.00	.80	BSZ440N10NS3 GINTR-ND ***NEW!***	5,000	391.00/M	BSZ440N10NS3 G
TO-263-3	N-CH	30	3.4	80	400	94	IPB034N03LGINCT-ND	1.70	1.52	1.21	IPB034N03LGINTR-ND	1,000	669.00	IPB034N03L G
	N-CH	30	4.2	70	400	79	IPB042N03LGINCT-ND	1.45	1.30	1.03	IPB042N03LGINTR-ND	1,000	571.00	IPB042N03L G
	N-CH	30	5.5	50	350	68	IPB055N03LGINCT-ND	1.28	1.15	.92	IPB055N03LGINTR-ND	1,000	507.00	IPB055N03L G
	N-CH	30	6.5	50	350	56	IPB065N03LGINCT-ND	1.14	1.02	.81	IPB065N03LGINTR-ND	1,000	448.00	IPB065N03L G
	N-CH	30	9.6	35	245	42	IPB096N03LGINCT-ND	1.01	.91	.73	IPB096N03LGINTR-ND	1,000	401.00	IPB096N03L G
	N-CH	40	1.5	120	400	250	IPB015N04L GCT-ND ***NEW!***	4.22	3.81	3.10	IPB015N04L GTR-ND ***NEW!***	1,000	1971.00	IPB015N04L G
	N-CH	40	1.5	120	400	250	IPB015N04N GCT-ND ***NEW!***	4.22	3.81	3.10	IPB015N04N GTR-ND ***NEW!***	1,000	1971.00	IPB015N04N G
TO-263-7	N-CH	30	0.95	180	1260	250	IPB009N03L GCT-ND ***NEW!***	3.61	3.26	2.66	IPB009N03L GTR-ND ***NEW!***	1,000	1686.00	IPB009N03L G
	N-CH	40	1.1	180	1260	250	IPB011N04L GCT-ND ***NEW!***	4.65	4.19	3.41	IPB011N04L GTR-ND ***NEW!***	1,000	2168.00	IPB011N04L G
	N-CH	100	2.5	180	720	300	IPB025N10N3 GCT-ND ***NEW!***	6.99	6.30	5.13	IPB025N10N3 GTR-ND ***NEW!***	1,000	3262.00	IPB025N10N3 G

§ Dual † Tube

SIPMOS®

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	P-CH	-60	0.023	-80	-320	340	SPP80P06PIN-ND◆	3.30	2.96	2.42	—	—	—	SPP80P06P
	N-CH	200	0.4	7	28	40	BUZ73LIN-ND◆	1.20	1.06	.84	—	—	—	BUZ73L
	N-CH	200	0.2	13.5	54	95	BUZ31LIN-ND◆	1.93	1.75	1.40	—	—	—	BUZ31L
	N-CH	100	.08	21	84	90	SPP21N10IN-ND◆	1.27	1.15	.93	—	—	—	SPP21N10
TO-220-3	N-CH	100	0.033	47	188	175	IPP47N10S-33-ND◆ ***NEW!***	1.64	1.49	1.20	—	—	—	IPP47N10S-33
	N-CH	100	0.026	47	188	175	IPP47N10SL-26-ND◆ ***NEW!***	1.64	1.49	1.20	—	—	—	IPP47N10SL-26
TO-251	P-CH	-60	0.3	-8.8	-35.2	42	SPU08P06PIN-ND◆	1.37	1.22	.96	—	—	—	SPU08P06P
	P-CH	-60	0.13	-18.6	-74.4	80	SPU18P06PIN-ND◆	3.10	2.77	2.27	—	—	—	SPU18P06P
TO-262	N-CH	100	.080	21	84	90	SPI21N10IN-ND◆	1.35	1.20	.95	—	—	—	SPI21N10
TO-262-3	N-CH	100	0.033	47	188	175	IPI47N10S-33-ND◆ ***NEW!***	1.64	1.49	1.20	—	—	—	IPI47N10S-33
	N-CH	100	0.026	47	188	175	IPI47N10SL-26-ND◆ ***NEW!***	1.64	1.49	1.20	—	—	—	IPI47N10SL-26
	N-CH	100	0.016	70	280	250	IPI70N10SL-16-ND◆ ***NEW!***	2.39	2.16	1.74	—	—	—	IPI70N10SL-16
D-PAK	P-CH	-60	0.25	-9.7	-38.8	42	SPD09P06PLINCT-ND†◆	.71	.62	.49	—	—	—	SPD09P06PL
SO-8	N-CH	60	0.15	2.6	10.4	2	BSO615NGINCT-ND§†◆	1.22	1.10	.87	BSO615NGINTR-ND§◆	2,500	451.00/M	BSO615N G
	P/N-CH	-60/60	0.3/0.12	-2/3	-8/12	2/2	BSO612CVGINCT-ND†◆	1.06	.95	.76	BSO612CVGINTR-ND◆	2,500	358.00/M	BSO612CV G
	P/N-CH	-60/60	0.3/0.11	-2/3.1	-8/12.4	2/2	BSO615CXTINCT-ND†◆	1.07	.97	.77	BSO615CXTINTR-ND◆	2,500	362.00/M	BSO615CT
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PL6327INCT-ND†◆	.46	.34	.20	BSS84PL6327INTR-ND◆	3,000	62.00/M	BSS84P L6327

◆ ***RoHS Compliant*** § Dual † Cut Tape

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Infineon Mosfets

SIPMOS® *(Cont.)*

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
SOT-23	N-CH	60	3.5	0.23	0.92	0.36	BSS138NL6327INCT-ND†◆	.61	.42	.20	BSS138NL6327INTR-ND◆	3,000	53.00/M	BSS138N L6327
	N-CH	60	5	0.2	0.8	0.36	SN7002NL6327INCT-ND†◆	.53	.36	.17	SN7002NL6327INTR-ND◆	3,000	46.00/M	SN7002N L6327
	N-CH	100	6	0.17	0.68	0.36	BSS123L6327INCT-ND†◆	.44	.32	.19	BSS123L6327INTR-ND◆	3,000	68.00/M	BSS123 L6327
SOT-89	P-CH	-250	12	-0.19	-0.76	1	BSS192PL6327INCT-ND†◆	.75	.66	.52	BSS192PL6327INTR-ND◆	1,000	257.00	BSS192P L6327
	N-CH	240	6	0.26	1.04	1	BSS87L6327INCT-ND†◆	.83	.72	.57	BSS87L6327INTR-ND◆	1,000	282.00	BSS87 L6327
SOT-223	P-CH	-60	0.3	-1.9	-7.6	1.8	BSP170PL6327INCT-ND†◆	.87	.76	.60	BSP170PL6327INTR-ND◆	1,000	290.00	BSP170P L6327
	P-CH	-60	0.3	-1.9	-7.6	1.8	BSP171PL6327INCT-ND†◆	.95	.83	.66	BSP171PL6327INTR-ND◆	1,000	312.00	BSP171P L6327
	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PL6327INCT-ND†◆	.69	.60	.48	BSP315PL6327INTR-ND◆	1,000	243.00	BSP315P L6327
	P-CH	-60	0.13	-2.9	-11.6	1.8	BSP613PL6327INCT-ND†◆	1.20	1.08	.86	BSP613PL6327INTR-ND◆	1,000	479.00	BSP613P L6327
	P-CH	-100	1.8	-0.68	-2.72	1.8	BSP316PL6327INCT-ND†◆	.80	.69	.55	BSP316PL6327INTR-ND◆	1,000	266.00	BSP316P L6327
	P-CH	-250	4	-0.43	-1.72	1.8	BSP317PL6327INCT-ND†◆	.98	.88	.70	BSP317PL6327INTR-ND◆	1,000	383.00	BSP317P L6327
	P-CH	-250	12	-0.26	-1.04	1.8	BSP92PL6327INCT-ND†◆	.77	.62	.47	BSP92PL6327INTR-ND◆	1,000	217.00	BSP92P L6327
	N-CH	60	0.3	1.8	7.2	1.8	BSP295L6327INCT-ND†◆	.98	.85	.68	BSP295L6327INTR-ND◆	1,000	327.00	BSP295 L6327
	N-CH	60	0.09	2.6	10.4	1.8	BSP318SL6327INCT-ND†◆	.79	.69	.55	BSP318SL6327INTR-ND◆	1,000	264.00	BSP318S L6327
	N-CH	100	6	0.37	1.48	1.79	BSP123INCT-ND†◆	.65	.53	.40	BSP123INTR-ND◆	1,000	184.00	BSP123 L6327
	N-CH	100	0.7	1.1	4.4	1.79	BSP296L6327INCT-ND†	.98	.85	.68	BSP296L6327INTR-ND	1,000	327.00	BSP296 L6327
	N-CH	100	0.31	1.7	6.8	1.8	BSP372L6327INCT-ND†◆	.88	.77	.61	BSP372L6327INTR-ND◆	1,000	293.00	BSP372 L6327
	N-CH	100	0.3	1.7	6.8	1.8	BSP373L6327INCT-ND†◆	.97	.84	.67	BSP373L6327INTR-ND◆	1,000	348.00	BSP373 L6327
	N-CH	200	3.5	0.66	2.6	1.8	BSP149L6327INCT-ND†◆	1.12	1.01	.80	BSP149L6327INTR-ND◆	1,000	458.00	BSP149 L6327
	N-CH	200	1.8	0.66	2.64	1.8	BSP297L6327INCT-ND†◆	.88	.77	.61	BSP297L6327INTR-ND◆	1,000	312.00	BSP297 L6327
	N-CH	240	6	0.35	1.4	1.8	BSP88L6327INCT-ND†◆	.75	.65	.51	BSP88L6327INTR-ND◆	1,000	248.00	BSP88 L6327
TO-263	P-CH	-60	0.3	-8.8	-35.2	42	SPB08P06PGINCT-ND†◆	1.11	.89	.76	—	—	—	SPB08P06P G
	P-CH	-60	0.13	-18.6	-74.4	80	SPB18P06PGINCT-ND†◆	1.55	1.39	1.11	SPB18P06PGINTR-ND◆	1,000	560.00	SPB18P06P G
	P-CH	-60	0.023	-80	-320	340	SPB80P06PGINCT-ND†◆	3.95	3.56	2.90	SPB80P06PGINTR-ND◆	1,000	1685.00	SPB80P06P G
	N-CH	100	0.154	10.3	42.2	50	SPB10N10LGINCT-ND†◆	1.48	1.17	1.00	—	—	—	SPB10N10L G
TO-263-3	N-CH	100	0.033	47	188	175	IPB47N10S-33CT-ND†◆ ***NEW!***	1.85	1.59	1.30	IPB47N10S-33TR-ND◆ ***NEW!***	1,000	768.00	IPB47N10S-33
	N-CH	100	0.026	47	188	175	IPB47N10SL-26CT-ND†◆ ***NEW!***	1.85	1.59	1.30	IPB47N10SL-26TR-ND◆ ***NEW!***	1,000	768.00	IPB47N10SL-26

◆ ***RoHS Compliant*** § Dual † Cut Tape

NEW! TRENCHSTOP™ Series

Package	Vce (V)	Ic Max. (A)	Vce (on) Max. (V)	Ptot (W)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
						1	10	100		Qty.	Pricing	
TO-252	600	8	2.1	75	IKD04N60RINCT-ND	1.06	.95	.76	IKD04N60RINTR-ND	2,500	390.00/M	IKD04N60R
	600	12	2.1	100	IKD06N60RINCT-ND	1.41	1.26	1.00	IKD06N60RINTR-ND	2,500	518.00/M	IKD06N60R
	600	20	2.1	150	IKD10N60RINCT-ND	1.69	1.52	1.20	IKD10N60RINTR-ND	2,500	622.00/M	IKD10N60R
TO-247	600	80	2.0	428	IKW75N60T-ND†	9.03	8.13	6.69	—	—	—	IKW75N60T

† Bulk

Diodes and Transistors

Fig. 1

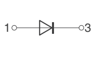

Fig. 2

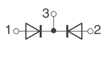

Fig. 3

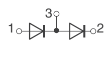

Fig. 4

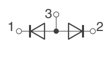

Fig. 5

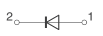

Fig. 6

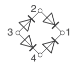

Fig. 7

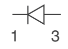

Fig. 8

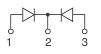

Fig. 9

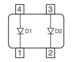

Fig. 10

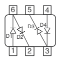

Fig. 11

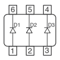

Fig. 12

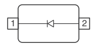

Fig. 13

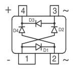

Fig. 14

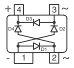

Fig. 15

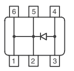

Fig. 16

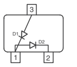

Fig. 17

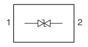

Fig. 18

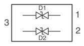

Fig. 19

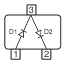

Fig. 20

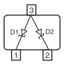

Fig. 21

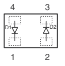

Fig. 22

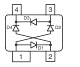

Fig. 23

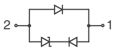

Fig. 24

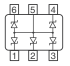

Fig. 25

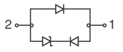

Fig. 26

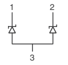

Fig. 27 ***NEW!***

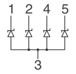

SOT-23, TSFP-3

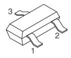

SOT-89

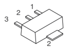

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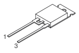

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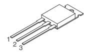

TSLP-3-1, TSLP-3-7

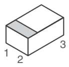

TSLP-4-7

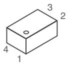

TSSLP-2-1, TSLP-2-17, TSLP-2-7

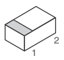

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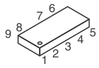

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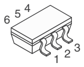

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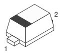

SCD-80

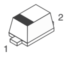

SOD-323

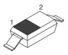

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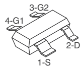

SOT-223

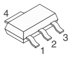

SOT-323

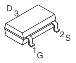

SOT-363, SOT-363-6

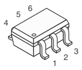

Silicon Switching Diodes

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (A)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	Ptot (mW)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
									1	10	100		Qty.	Pricing	
1	SOT-23	250	4.5	75	0.715	4	370	MMBD914LT1INCT-ND◆	.42	2.76	12.00	MMBD914LT1INTR-ND◆	3,000	42.00/M	MMBD914LT1
1	SOT-23	250	0.625	200	1	50	350	BAS21INCT-ND◆	.44	2.88	12.50	BAS21INTR-ND◆	3,000	31.00/M	BAS21E6327
1	SOT-23	120	0.2	40	1	0.1	250	BAS40INCT-ND◆	.47	3.34	20.04	BAS40INTR-ND◆	3,000	62.00/M	BAS40E6327
1	SOT-23	70	0.1	70	1	0.1	250	BAS70INCT-ND◆	.47	3.34	20.04	BAS70INTR-ND◆	3,000	62.00/M	BAS70E6327
1	SOT-23	250	4.5	100	1.2	4	370	SMBD914INCT-ND◆	.38	2.55	12.00	SMBD914INTR-ND◆	3,000	38.00/M	SMBD914E6327
1	SOT-23	250	4.5	75	1.2	6	370	BAS16INCT-ND◆	.40	2.60	11.30	BAS16INTR-ND◆	3,000	28.00/M	BAS16E6327
1	SOT-323	250	4.5	80	1.25	4	250	BAS16WE6327INCT-ND◆	.39	2.53	11.00	—	—	—	BAS 16W E6327
2	SOT-23	120	0.2	40	1	0.1	250	BAS4005INCT-ND	.47	3.35	20.10	—	—	—	BAS 40-05 E6327
2	SOT-23	70	0.1	70	1	0.1	250	BAS7005INCT-ND◆	.50	3.59	21.54	BAS7005INTR-ND◆	3,000	67.00/M	BAS 70-05 E6327
2	SOT-23	200	4.5	80	1.2	6	250	BAV70INCT-ND◆	.42	2.74	11.90	BAV70INTR-ND◆	3,000	30.00/M	BAV70E6327
2	SOT-23	200	4.5	80	1.25	4	250	BAV70B5003INCT-ND◆	.37	2.46	10.70	—	—	—	BAV 70 B5003
3	SOT-23	200	4.5	100	0.7	15	330	MMBD7000LT1INCT-ND◆	.45	2.97	12.90	MMBD7000LT1INTR-ND◆	3,000	45.00/M	MMBD7000LT1
3	SOT-23	200	—	150	0.95	700	250	BAR66E6327INCT-ND◆	.90	7.73	61.05	BAR66E6327INTR-ND◆	3,000	295.00/M	BAR 66 E6327
3	SOT-23	120	0.2	40	1	0.1	250	BAS4004INCT-ND◆	.50	3.59	21.54	BAS4004INTR-ND◆	3,000	67.00/M	BAS 40-04 E6327

◆ ***RoHS Compliant***

(Continued)

Silicon Switching Diodes *(Cont.)*

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (A)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	Ptot (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
3	SOT-23	70	0.1	70	1	0.1	250	BAS7004INCT-ND◆	.50	3.59	21.54	BAS7004INTR-ND◆	3,000	67.00/M	BAS 70-04 E6327
3	SOT-23	200	4.5	85	1.2	3	330	BAV199INCT-ND◆	.40	2.72	12.80	BAV199INTR-ND◆	3,000	40.00/M	BAV199E6327
3	SOT-23	200	4.5	70	1.2	6	330	BAV99INCT-ND◆	.42	2.74	11.90	BAV99INTR-ND◆	3,000	30.00/M	BAV99E6327
3	SOT-323	250	0.8	40	0.75	—	250	BAT6404WE6327INCT-ND◆	.46	3.25	19.50	BAT6404WE6327INTR-ND◆	3,000	61.00/M	BAT6404WE6327
3	SOT-323	200	4.5	80	1.3	4	250	BAV99WE6327INCT-ND◆	.44	2.88	12.50	BAV99WE6327INTR-ND◆	3,000	44.00/M	BAV 99W E6327
4	SOT-23	200	4.5	80	1.2	6	330	BAW56INCT-ND◆	.36	2.37	10.30	BAW56INTR-ND◆	3,000	28.00/M	BAW56E6327
4	SOT-23	200	4.5	80	1.25	4	330	BAW56B5003INCT-ND◆	.37	2.46	10.70	—	—	—	BAW 56 B5003
5	SOT-89	1000	10	400	2	1000	1000	BAW78DINCT-ND◆	.50	4.00	30.03	—	—	—	BAW78DE6327
6	SOT-143	140	—	50	1.3	6	210	BGX50AINCT-ND◆	.51	3.58	23.85	BGX50AINTR-ND◆	3,000	89.00/M	BGX50AE6327
9	SOT-143	250	4.5	300	1.3	1000	350	BAW101E6327INCT-ND◆	.54	3.80	25.35	BAW101E6327INTR-ND◆	3,000	85.00/M	BAW 101 E6327
10	SOT-363	200	4.5	80	1.25	4	250	BAV99SE6327INCT-ND◆	.53	3.77	22.62	BAV99SE6327INTR-ND◆	3,000	70.00/M	BAV 99S E6327
11	SC-74	250	4	200	1.25	50	250	BAS21UE6327INCT-ND◆	.60	4.26	25.56	BAS21UE6327INTR-ND◆	3,000	79.00/M	BAS 21U E6327
12	SOD-323	250	4	200	1.25	50	250	BAS21-03WE6327INCT-ND◆	.38	2.58	12.16	BAS21-03WE6327INTR-ND◆	3,000	44.00/M	BAS 21-03W E6327

◆ ***RoHS Compliant***

Silicon Digital Transistors

RoHS COMPLIANT

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	T & R Pricing 3,000	Infineon Part No.
SOT-23	NPN	50	50	100	30	BCR133INCT-ND	.50	3.29	14.30	BCR133INTR-ND	36.00/M	BCR133E6327
	NPN	50	50	100	70	BCR108E6327INCT-ND	.50	3.29	14.30	BCR108E6327INTR-ND	36.00/M	BCR 108 E6327
	NPN	50	50	500	40	BCR503E6327INCT-ND	.71	4.83	22.72	BCR503E6327INTR-ND	62.00/M	BCR 503 E6327
SOT-363	NPN/PNP	50	50	100	70	BCR08PNE6327INCT-ND	.43	3.09	18.54	BCR08PNE6327INTR-ND	68.00/M	BCR 08PN E6327

Silicon Carbide Schottky Diodes

RoHS COMPLIANT

Fig.	Package	VRRM (V)	Qc (nC)	If (A)	Ptot (W)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Infineon Part No.
7	TO-220-2-2	300	23	10	65	SDT10S30IN-ND	10.51	94.95	762.97	SDT10S30
7	TO-220-2-2	600	13	4	36.5	SDT04S60IN-ND	6.12	49.20	448.27	SDT04S60
7	TO-220-2-2	600	30	12	88.2	SDT12S60IN-ND	14.63	123.01	1130.33	SDT12S60
8	TO-220-3-1	300	23	2 x 10	65	SDP20S30IN-ND	18.28	166.22	1537.57	SDP20S30

Silicon Schottky Diodes

RoHS COMPLIANT

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (mA)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	Ptot (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
1	SOT-23	120	200	40	1	250	BAS40B5003INCT-ND	.61	4.13	19.25	—	—	—	BAS 40 B5003
1	SOT-23	70	100	70	1	250	BAS70B5003INCT-ND	.61	4.13	19.25	—	—	—	BAS 70 B5003
2	SOT-23	250	800	40	0.75	250	BAT64-05E6327INCT-ND	.46	3.25	19.50	BAT64-05E6327INTR-ND	3,000	61.00/M	BAT 64-05 E6327
2	SOT-23	200	600	30	0.8	230	BAT54-05E6327INCT-ND	.58	3.94	18.56	—	—	—	BAT 54-05 E6327
2	SOT-23	120	200	40	1	250	BAS40-05B5003INCT-ND	.65	4.44	20.72	—	—	—	BAS 40-05 B5003
2	SOT-23	70	100	70	1	250	BAS70-05B5003INCT-ND	.65	4.44	20.72	—	—	—	BAS 70-05 B5003
3	SOT-23	200	600	30	0.8	230	BAT54-04E6327INCT-ND	.58	3.94	18.56	BAT54-04E6327INTR-ND	3,000	51.00/M	BAT 54-04 E6327
3	SOT-323	250	800	40	0.75	250	BAT6404WE6327INCT-ND	.46	3.25	19.50	BAT6404WE6327INTR-ND	3,000	61.00/M	BAT 64-04W E6327
3	SOT-23	70	100	70	1	250	BAS70-04WE6327INCT-ND	.50	3.59	21.54	—	—	—	BAS 70-04W E6327
4	SOT-23	200	600	30	0.8	230	BAT54-06B5003INCT-ND	.42	2.88	13.44	—	—	—	BAT 54-06 B5003
4	SOT-23	200	600	30	0.8	230	BAT54-06E6327INCT-ND	.58	3.94	18.56	—	—	—	BAT 54-06 E6327
4	SOT-23	70	100	70	1	250	BAS70-06B5003INCT-ND	.65	4.44	20.72	—	—	—	BAS 70-06 B5003
4	SOT-23	70	100	70	1	250	BAS70-06E6327INCT-ND	.50	3.59	21.54	BAS70-06E6327INTR-ND	3,000	67.00/M	BAS 70-06 E6327
12	SOD-323	3	5	10	1	1,350	BAT60AE6327INCT-ND	.58	4.11	27.40	BAT60AE6327INTR-ND	3,000	92.00/M	BAT 60A E6327
12	SOD-323	1,000	10,000	30	0.47	—	BAS3010A-03WE6327INCT-ND	.56	3.96	26.40	BAS3010A-03WE6327INTR-ND	3,000	89.00/M	BAS 3010A-03W E6327
12	SOD-323	1,000	10,000	30	0.55	—	BAS3010B-03WE6327INCT-ND	.56	3.96	26.40	BAS3010B-03WE6327INTR-ND	3,000	89.00/M	BAS 3010B-03W E6327
12	SC-79	500	5	30	0.62	300	BAS3005B-02VE6327INCT-ND	.52	3.66	24.40	BAS3005B-02VE6327INTR-ND	3,000	82.00/M	BAS 3005B-02V E6327
12	SCD-80	20	20	40	1	100	BAT62-02WE6327INCT-ND	.48	3.79	25.94	BAT62-02WE6327INTR-ND	3,000	110.00/M	BAT 62-02W E6327
12	SCD-80	250	800	40	0.75	250	BAT 64-02W H6327INCT-ND ***NEW!***	.45	3.23	19.38	BAT 64-02W H6327INTR-ND ***NEW!***	3,000	65.00/M	BAT 64-02W H6327
12	TSLP-2-17	500	2,000	30	0.50	—	BAS3005S-02LRHE6327INCT-ND	.46	3.62	24.77	BAS3005S-02LRHE6327INTR-ND	15,000	92.00/M	BAS 3005S-02LRH E6327
13	SOT-143	900	5,000	30	0.70	—	BAS3007ARPPE6327INCT-ND	.66	5.28	39.60	BAS3007ARPPE6327INTR-ND	3,000	174.00/M	BAS3007ARPPE6327
14	SOT-143	200	2,000	40	0.79	—	BAS4002ARPPE6327INCT-ND	.54	4.29	32.18	BAS4002ARPPE6327INTR-ND	3,000	141.00/M	BAS 4002A RPP E6327
15	SOT-363	2,000	10,000	30	0.53	—	BAS3020BE6327INCT-ND	.60	4.70	32.18	BAS3020BE6327INTR-ND	3,000	127.00/M	BAS 3020B E6327
16	SOT-23	400	1,000	240	0.9	400	BAT240AE6327INCT-ND	.91	7.84	61.92	BAT240AE6327INTR-ND	3,000	279.00/M	BAT 240A E6327

TVS Diodes

RoHS COMPLIANT

Fig.	Package	ESD Contact Discharge Vesd (kV)	Peak Pulse Current Ipp (A)	Breakdown Voltage Vbr	Clamping Voltage Vcl	Line Cap. Ct (pF)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
10	SOT-363-6	15	10	—	12	1.5	ESD1P0RFSE6327INCT-ND	.52	3.66	24.40	ESD1P0RFSE6327INTR-ND	3,000	88.00/M	ESD1P0RFSE6327
12	SOD-323	30	40	8	14	430	ESD5V0S1U-03WE6327INCT-ND	.55	3.94	23.64	ESD5V0S1U-03WE6327INTR-ND	3,000	79.00/M	ESD5V0S1U-03W E6327
17	TSLP-2-7	16	1	20	28	7	ESD8V0R1B-02LRHE6327INCT-ND	.46	3.29	19.74	ESD8V0R1B-02LRHE6327INTR-ND	15,000	53.00/M	ESD8V0R1B-02LRHE6327
17	TSLP-2-7	26	2.5	14.5	25	13	ESD8V0L1B-02LRHE6327INCT-ND	.46	3.32	19.92	ESD8V0L1B-02LRHE6327INTR-ND	15,000	53.00/M	ESD8V0L1B-02LRH E6327
17	TSLP-2-17	25/20	5.5	6	11	17.5	ESD5V3S1B-02LRH E6327INCT-ND ***NEW!***	.55	3.95	23.70	ESD5V3S1B-02LRH E6327INTR-ND ***NEW!***	15,000	63.00/M	ESD5V3S1B-02LRH E6327
17	TSSLP-2-1	16	1	20	28	7	ESD8V0R1B-02LSE6327INCT-ND	.54	3.84	23.04	ESD8V0R1B-02LSE6327INTR-ND	15,000	61.00/M	ESD8V0R1B-02LSE6327
17	TSSLP-2-1	20	3	7	21	0.2	ESD0P2RF-02LSE6327INCT-ND	.48	3.75	25.66	ESD0P2RF-02LSE6327INTR-ND	15,000	95.00/M	ESD0P2RF-02LS E6327
17	TSLP-2-17	20	3	7	21	0.2	ESD0P2RF-02LRH E6327INCT-ND ***NEW!***	.62	4.42	29.45	ESD0P2RF-02LRH E6327INTR-ND ***NEW!***	15,000	91.00/M	ESD0P2RF-02LRH E6327
18	TSLP-3-1	15	1	8.5	20	7	ESD8V0L2B-03LE6327INCT-ND	.48	3.39	22.60	ESD8V0L2B-03LE6327INTR-ND	15,000	70.00/M	ESD8V0L2B-03L E6327
19	SOT-323	15	10	—	12	1.5	ESD1P0RFWE6327INCT-ND	.45	3.20	19.20	ESD1P0RFWE6327INTR-ND	3,000	64.00/M	ESD1P0RFWE6327
20	SOT-23	30	5	32	41	52	ESD24VS2UE6327INCT-ND	.62	4.42	26.52	ESD24VS2UE6327INTR-ND	3,000	88.00/M	ESD24VS2UE6327
20	SOT-23	30	40	8	14	430	ESD5V0S2U-06E6327INCT-ND	.63	4.44	29.60	ESD5V0S2U-06E6327INTR-ND	3,000	107.00/M	ESD5V0S2U-06 E6327
21	TSLP-4-7	20	10	—	12	0.8	ESD0P8RFLE6327INCT-ND	.57	4.01	26.75	ESD0P8RFLE6327INTR-ND	15,000	83.00/M	ESD0P8RFLE6327
21	TSLP-4-7	15	5	—	6	0.4	ESD0P4RFLE6327INCT-ND	.44	3.49	23.87	ESD0P4RFLE6327INTR-ND	15,000	89.00/M	ESD0P4RFL E6327

(Continued)

TVS Diodes *(Cont.)*

Fig.	Package	ESD Contact Discharge Vesd (kV)	Peak Pulse Current Ipp (A)	Breakdown Voltage Vbr	Clamping Voltage Vcl	Line Cap. Ct (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
22	SOT-143	15	27	—	6	2.5	DSL70E6327INCT-ND	.83	7.16	56.49	DSL70E6327INTR-ND	3,000	273.00/M	DSL70 E6327
23	TSLP-2-7	20	3	5	12	0.4	ESD3V3U1U-02LRHE6327INCT-ND	.55	3.95	23.70	ESD3V3U1U-02LRHE6327INTR-ND	15,000	63.00/M	ESD3V3U1U-02LRH E6327
23	TSSLP-2-1	20	3	5	12	0.4	ESD3V3U1U-02LSE6327INCT-ND	.62	4.42	26.52	ESD3V3U1U-02LSE6327INTR-ND	15,000	71.00/M	ESD3V3U1U-02LS E6327
24	SOT-363	30	10	7.7	13	70	ESD5V0S5USE6327INCT-ND	.45	3.52	24.10	ESD5V0S5USE6327INTR-ND	3,000	102.00/M	ESD5V0S5US E6327
25	TSLP-2-7	20	3	—	15	0.4	ESD5V3U1U-02LRHE6327INCT-ND	.55	3.95	23.70	ESD5V3U1U-02LRHE6327INTR-ND	15,000	63.00/M	ESD5V3U1U-02LRH E6327
25	TSSLP-2-1	20	3	—	15	0.4	ESD5V3U1U-02LSE6327INCT-ND	.62	4.42	26.52	ESD5V3U1U-02LSE6327INTR-ND	15,000	71.00/M	ESD5V3U1U-02LS E6327
26	TSFP-3	20	3	—	15	0.4	ESD5V3U2U-03FE6327INCT-ND	.51	4.04	27.61	ESD5V3U2U-03FE6327INTR-ND	3,000	117.00/M	ESD5V3U2U-03F E6327
26	TSLP-3-7	20	3	—	15	0.4	ESD5V3U2U-03LRHE6327INCT-ND	.54	4.25	29.09	ESD5V3U2U-03LRHE6327INTR-ND	15,000	108.00/M	ESD5V3U2U-03LRH E6327
27	TSLP-9-1	20	3	6	15	0.2	ESD5V3U4U-HDMI E6327INCT-ND ***NEW!***	.85	7.33	57.90	ESD5V3U4U-HDMI E6327INTR-ND ***NEW!***	7,500	261.00/M	ESD5V3U4U-HDMI E6327

Silicon AF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
							1	10	100		Qty.	Pricing	
SC-74	NPN	45	50	500	250	BC817SUE6327INCT-ND◆	.54	4.28	29.25	BC817SUE6327INTR-ND◆	3,000	116.00/M	BC 817SU E6327
SOT-23	NPN	45	50	500	250	BC817-25E6327INCT-ND◆	.42	2.74	11.90	—	—	—	BC 817-25 E6327
	NPN	45	50	500	250	BC817K-25E6327INCT-ND◆	.40	2.62	11.40	BC817K-25E6327INTR-ND◆	3,000	40.00/M	BC 817K-25 E6327
	NPN	65	80	100	250	BC846BB5003INCT-ND◆	.36	2.35	10.20	—	—	—	BC 846B B5003
	NPN	45	50	100	140	BC847AINCT-ND◆	.38	2.48	10.80	BC847AINTR-ND◆	3,000	27.00/M	BC847AE6327
	NPN	45	50	100	250	BC847BB5003INCT-ND◆	.36	2.35	10.20	—	—	—	BC 847B B5003
	NPN	45	50	100	250	BC847BE6327INCT-ND◆	.38	2.48	10.80	BC847BE6327INTR-ND◆	3,000	27.00/M	BC 847B E6327
	NPN	45	50	100	480	BC847CINCT-ND◆	.38	2.48	10.80	BC847CINTR-ND◆	3,000	27.00/M	BC847CE6327
	NPN	45	50	100	480	BC850CB5003INCT-ND◆	.36	2.35	10.20	—	—	—	BC 850C B5003
	NPN	45	50	100	480	BC850CE6327INCT-ND◆	.43	2.81	12.20	—	—	—	BC 850C E6327
	NPN	60	45	500	2,000	BCV47INCT-ND*◆	.63	4.25	20.00	BCV47INTR-ND*◆	3,000	59.00/M	BCV47E6327
	NPN	45	45	100	460	BCX70KINCT-ND◆	.50	3.31	14.40	BCX70KINTR-ND◆	3,000	36.00/M	BCX70KE6327
	NPN	80	80	500	100	SMBTA06E6327INCT-ND◆	.38	2.57	12.08	SMBTA06E6327INTR-ND◆	3,000	35.00/M	SMBTA 06 E6327
	PNP	45	50	500	250	BC807-25B5003INCT-ND◆	.38	2.51	10.90	—	—	—	BC 807-25 B5003
	PNP	65	80	100	250	BC856BE6327INCT-ND◆	.38	2.48	10.80	—	—	—	BC 856B E6327
	PNP	45	50	100	250	BC857BB5003INCT-ND◆	.36	2.35	10.20	—	—	—	BC 857B B5003
	PNP	45	50	100	250	BC857BE6327INCT-ND◆	.38	2.48	10.80	BC857BE6327INTR-ND◆	3,000	27.00/M	BC 857B E6327
	PNP	45	50	100	480	BC857CB5003INCT-ND◆	.36	2.35	10.20	—	—	—	BC 857C B5003
	PNP	45	50	100	480	BC857CINCT-ND◆	.38	2.48	10.80	BC857CINTR-ND◆	3,000	27.00/M	BC857CE6327
	PNP	60	80	500	2,000	BCV46INCT-ND*◆	.72	4.90	23.04	—	—	—	BCV46E6327
	PNP	45	60	800	350	BCW68HE6327INCT-ND◆	.46	3.13	14.72	BCW68HE6327INTR-ND◆	3,000	40.00/M	BCW 68H E6327
	PNP	45	45	100	460	BCX71KE6327INCT-ND◆	.50	3.27	14.20	—	—	—	BCX 71K E6327
	PNP	80	80	500	100	SMBTA56INCT-ND	.48	3.17	13.80	—	—	—	SMBTA56E6433
	PNP	30	30	500	20,000	SMBTA64INCT-ND*	.66	4.47	21.04	—	—	—	SMBTA64E6327
	PNP	40	40	200	300	SMBT3906B5003INCT-ND◆	.32	2.12	9.20	—	—	—	SMBT 3906 B5003
SOT-223	NPN	45	60	3,000	400	BDP947E6327INCT-ND◆	.79	6.83	53.91	BDP947E6327INTR-ND◆	1,000	268.00	BDP 947 E6327
	NPN	45	60	3,000	400	BDP949E6327INCT-ND◆	.79	6.83	53.91	BDP949E6327INTR-ND◆	1,000	268.00	BDP 949 E6327
SOT-89	NPN	45	45	1,000	160	BCX54-16E6327INCT-ND◆	.52	4.10	28.08	BCX54-16E6327INTR-ND◆	1,000	121.00	BCX 54-16 E6327
	NPN	60	60	1,000	160	BCX55-16E6327INCT-ND◆	.52	4.10	28.08	BCX55-16E6327INTR-ND◆	1,000	121.00	BCX 55-16 E6327
	NPN	20	25	1,000	250	BCX68-25E6327INCT-ND◆	.50	4.00	30.03	BCX68-25E6327INTR-ND◆	1,000	155.00	BCX 68-25 E6327
	PNP	20	25	1,000	160	BCX6916INCT-ND	.57	4.45	30.46	—	—	—	BCX 69-16 E6327
SOT-363	NPN/PNP	45	50	100	250	BC847PNE6327INCT-ND◆	.70	4.78	22.48	BC847PNE6327INTR-ND◆	3,000	62.00/M	BC 847PN E6327
	NPN	45	50	100	250	BC847SE6327INCT-ND◆	.68	4.59	21.60	BC847SE6327INTR-ND◆	3,000	59.00/M	BC 847S E6327

◆ ***RoHS Compliant*** * Darlington

Silicon Switching Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing 3,000	Infineon Part No.
							1	10	100			
SOT-23	NPN	30	30	300	10,000	MMBTA14LT1INCT-ND*◆	.47	3.38	19.93	—	—	MMBTA 14 LT1
	NPN	40	75	600	100	MMBT2222ALT1INCT-ND◆	.50	3.31	14.40	MMBT2222ALT1INTR-ND◆	36.00/M	MMBT2222ALT1
	NPN	40	75	600	100	SMBT2222AINCT-ND◆	.50	3.31	14.40	SMBT2222AINTR-ND◆	36.00/M	SMBT2222AE6327
	NPN	30	30	300	20,000	SMBTA14INCT-ND*	.56	3.98	23.88	—	—	SMBTA14E6327
	NPN	300	300	500	40	SMBTA42E6327INCT-ND◆	.61	4.17	19.60	—	—	SMBTA 42 E6327
	NPN	40	60	200	100	SMBT3904INCT-ND◆	.43	2.81	12.20	SMBT3904INTR-ND◆	31.00/M	SMBT3904E6327
	PNP	60	60	600	100	MMBT2907ALT1INCT-ND◆	.50	3.31	14.40	MMBT2907ALT1INTR-ND◆	36.00/M	MMBT2907ALT1
	PNP	40	40	200	100	SMBT3906INCT-ND◆	.43	2.81	12.20	SMBT3906INTR-ND◆	31.00/M	SMBT3906E6327
SOT-143	PNP	30	30	100	180	BCV62AE6327INCT-ND◆	.50	3.50	23.35	BCV62AE6327INTR-ND◆	87.00/M	BCV 62A E6327
	PNP	30	30	100	520	BCV62CE6327INCT-ND◆	.50	3.50	23.35	BCV62CE6327INTR-ND◆	87.00/M	BCV 62C E6327

◆ ***RoHS Compliant*** * Darlington

Discrete Sample Kits

KITAFDIODE1IN-ND	Sample Kit for High Voltage and Multi Chip Diodes	**$16.50**	**KITRFDIODE2IN-ND**	Sample Kit for RF Applications	**$19.80**
KITAFLED1IN-ND	Sample Kit for LED Drivers	**$16.50**	**KITRFTRANS.1IN-ND**	Sample Kit for High End Si, SiGe RF Transistors	**$18.48**
KITAFTRANS.5IN-ND	Sample Kit for Digital Dual Transistors 100mA	**$16.50**	**KITRFTRANS.2IN-ND**	Sample Kit for General Purpose RF Transistors	**$16.50**
KITAFTRANS.6IN-ND	Sample Kit for Digital Transistors 500mA	**$16.50**	**KITSCHOTTKY1IN-ND**	Sample Kit for Mixer, Detecting and Power Leveling	**$19.80**
KITGPSIN-ND	Sample Kit for GPS Applications	**$16.50**	**KITSCHOTTKY2IN-ND**	Sample Kit for Current up to 3A	**$16.50**
KITMMICGPIN-ND	Sample Kit for General Purpose MMIC LNAs	**$16.50**	**KITTVSDIODE1IN-ND**	Sample Kit for TVS Diodes for Ultra-High-Speed Applications	**$16.50**
KITRFDIODE1IN-ND	Sample Kit for RF Switching	**$16.50**	**KITTVSDIODE2IN-ND**	Sample Kit for TVS Diodes for RF/Antenna Protection	**$16.50**

Ciclon NexFET Power MOSFETS

Fig. 1

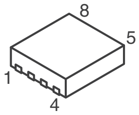

A
1. Source 5. Drain
2. Source 6. Drain
3. Source 7. Drain
4. Gate 8. Drain

B
1. Drain 5. Source
2. Drain 6. Source
3. Drain 7. Source
4. Gate 8. Source

Fig. 2 ***NEW!***

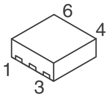

A
1. Drain 4. Source
2. Drain 5. Drain
3. Gate 6. Drain

B
1. Source 4. Drain
2. Source 5. Source
3. Gate 6. Source

Fig. 3

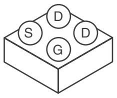

Fig. 4

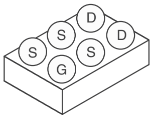

Fig. 5 ***NEW!***

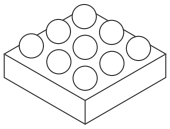

Fig. 6 ***NEW!***

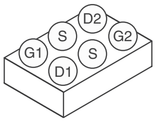

Fig.	Vds	Vgs	Typical Rds (on) (mΩ) @10V	@4.5V	@2.5V	@1.8V	@1.5V	Typical Qg @ 4.5V (nc)	Typical Qgd (nc)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Texas Instruments Part No.
N-Channel																		
1A	25	16	3.1	4.1	—	—	—	9.0	2.5	8-QFN	296-24524-1-ND◆	2.63	2.03	1.84	296-24524-2-ND◆	2,500	1012.50/M	CSD16413Q5A
	25	16	1.3	1.8	—	—	—	21.0	5.2	8-SON	296-24525-1-ND◆	5.10	4.17	3.74	296-24525-2-ND◆	2,500	2261.00/M	CSD16401Q5
	25	16	2.2	2.9	—	—	—	13.3	3.5	8-SON	296-24249-1-ND◆	3.00	2.45	2.20	296-24249-2-ND◆	2,500	1330.00/M	CSD16403Q5
	25	16	4.1	5.7	—	—	—	6.5	1.7	8-SON	296-24250-1-ND◆	2.28	1.76	1.60	296-24250-2-ND◆	2,500	877.50/M	CSD16404Q5A
	25	16	4.2	5.9	—	—	—	5.8	1.5	8-SON	296-24251-1-ND◆	2.45	1.89	1.72	—	—	—	CSD16406Q3
	25	16	1.8	2.5	—	—	—	13.3	3.5	8-SON	296-24252-1-ND◆	3.45	2.82	2.53	296-24252-2-ND◆	2,500	1529.50/M	CSD16407Q5
	25	16	6.2	9.5	—	—	—	4.0	1.0	8-SON	296-24253-1-ND◆	2.10	1.62	1.47	296-24253-2-ND◆	2,500	810.00/M	CSD16409Q3
	25	16	8	12	—	—	—	2.9	0.7	8-SON	296-24255-1-ND◆	1.93	1.49	1.35	296-24255-2-ND◆	2,500	742.50/M	CSD16411Q3
	25	16	9.0	13.0	—	—	—	2.8	0.7	8-SON	296-24256-1-ND◆	1.75	1.35	1.23	296-24256-2-ND◆	2,500	675.00/M	CSD16412Q5A
	25	16	1.5	2.1	—	—	—	16.6	4.4	8-SON	296-24257-1-ND◆	3.75	3.07	2.75	296-24257-2-ND◆	2,500	1663.00/M	CSD16414Q5
	25	16	—	2.1	—	—	—	14.0	2.5	8-SON	296-24517-1-ND◆ ***NEW!***	3.75	3.07	2.75	296-24517-2-ND◆ ***NEW!***	2,500	1662.50/M	CSD16321Q5
	25	16	—	4.4	—	—	—	6.2	1.1	8-SON	296-24522-1-ND◆ ***NEW!***	2.80	2.16	1.96	296-24522-2-ND◆ ***NEW!***	2,500	1080.00/M	CSD16323Q3
	25	18	—	1.7	—	—	—	18	3.5	8-SON	296-24964-1-ND◆ ***NEW!***	4.20	3.43	3.08	296-24964-2-ND◆ ***NEW!***	2,500	1862.00/M	CSD16325Q5
	25	18	—	4.6	—	—	—	6.8	1.3	8-SON	296-25112-1-ND◆ ***NEW!***	2.80	2.16	1.96	296-25112-2-ND◆ ***NEW!***	2,500	1080.00/M	CSD16322Q5
	25	18	—	2.1	—	—	—	14	2.5	8-SON	296-25643-1-ND ***NEW!***	4.05	3.31	2.97	296-25643-2-ND ***NEW!***	2,500	1796.00/M	CSD16321Q5C
	25	18	—	4.6	—	—	—	6.8	1.3	8-SON	296-25644-1-ND ***NEW!***	2.98	2.30	2.09	296-25644-2-ND ***NEW!***	2,500	1148.00/M	CSD16322Q5C
	25	18	—	1.7	—	—	—	18	3.5	8-SON	296-25645-1-ND ***NEW!***	4.65	3.80	3.41	296-25645-2-ND ***NEW!***	2,500	2062.00/M	CSD16325Q5C
	25	18	—	4.3	6.1	—	—	6.5	1.2	8-SON	296-25646-1-ND◆ ***NEW!***	2.80	2.16	1.96	296-25646-2-ND◆ ***NEW!***	2,500	1080.00/M	CSD16340Q3
	25	28	3.6	5.4	—	—	—	6.7	1.9	8-SON	296-25647-1-ND ***NEW!***	2.98	2.30	2.09	296-25647-2-ND ***NEW!***	2,500	1148.00/M	CSD16408Q5C
	25	28	1.8	2.5	—	—	—	13.3	3.5	8-SON	296-25664-1-ND ***NEW!***	3.60	2.94	2.64	296-25664-2-ND ***NEW!***	2,500	1596.00/M	CSD16407Q5C
	25	1.4	—	5	—	—	—	8.2	1	8-SON	296-27532-1-ND◆ ***NEW!***	5.25	4.29	3.85	296-27532-2-ND◆ ***NEW!***	2,500	2328.00/M	CSD86350Q5D
	25	28	3.6	5.4	—	—	—	6.7	1.9	8-SON	296-25321-1-ND◆ ***NEW!***	2.63	2.03	1.84	296-25321-2-ND◆ ***NEW!***	2,500	1012.50/M	CSD16408Q5
	30	1.3	—	9.4	—	—	—	3.9	0.8	8-SON	296-27210-1-ND◆ ***NEW!***	1.93	1.49	1.35	296-27210-2-ND◆ ***NEW!***	2,500	743.00/M	CSD17308Q3
	30	1.1	—	2.3	—	—	—	19.0	4.3	8-SON	296-25795-1-ND ***NEW!***	3.00	2.45	2.20	296-25795-2-ND ***NEW!***	2,500	1330.00/M	CSD17301Q5A
	30	1.2	—	7.3	—	—	—	5.4	1.2	8-SON	296-25854-1-ND◆ ***NEW!***	1.93	1.49	1.35	296-25854-2-ND◆ ***NEW!***	2,500	743.00/M	CSD17302Q5A
	30	1.1	—	2.0	—	—	—	18.0	4.0	8-SON	296-27232-1-ND◆ ***NEW!***	3.45	2.82	2.53	296-27232-2-ND◆ ***NEW!***	2,500	1530.00/M	CSD17303Q5A
	30	1.3	—	6.9	—	—	—	5.1	1.1	8-SON	296-27509-1-ND ***NEW!***	2.10	1.62	1.47	296-27509-2-ND ***NEW!***	2,500	810.00/M	CSD17304Q3
	30	1.1	—	2.8	—	—	—	14.1	3.0	8-SON	296-25855-1-ND◆ ***NEW!***	2.98	2.30	2.09	296-25855-2-ND◆ ***NEW!***	2,500	1148.00/M	CSD17305Q5A
	30	1.1	—	3.3	—	—	—	11.8	2.4	8-SON	296-25856-1-ND◆ ***NEW!***	2.63	2.03	1.84	296-25856-2-ND◆ ***NEW!***	2,500	1013.00/M	CSD17306Q5A
	30	1.3	—	9.7	—	—	—	4.0	1.0	8-SON	296-25857-1-ND◆ ***NEW!***	1.75	1.35	1.23	296-25857-2-ND◆ ***NEW!***	2,500	675.00/M	CSD17307Q5A
	30	1.2	—	4.9	—	—	—	7.5	1.7	8-SON	296-27250-1-ND◆ ***NEW!***	2.45	1.89	1.72	296-27250-2-ND◆ ***NEW!***	2,500	945.00/M	CSD17309Q3
	30	1.3	—	4.5	—	—	—	8.9	2.1	8-SON	296-25858-1-ND◆ ***NEW!***	2.28	1.76	1.60	296-25858-2-ND◆ ***NEW!***	2,500	878.00/M	CSD17310Q5A
2A	25	18	—	23	—	—	—	2.0	0.4	6-SON	296-25260-1-ND◆ ***NEW!***	1.37	1.08	.98	296-25260-2-ND◆ ***NEW!***	3,000	504.00/M	CSD16301Q2
	30	2.1	—	26.0	—	—	—	2.1	0.4	6-SON	296-27233-1-ND◆ ***NEW!***	1.37	1.08	.98	296-27233-2-ND◆ ***NEW!***	3,000	504.00/M	CSD17313Q2
P-Channel — RoHS Compliant																		
1B	20	12	—	8.7	13.5	—	—	8.8	2.1	8-SON	296-24260-1-ND	2.80	2.16	1.96	296-24260-2-ND	2,500	1080.00/M	CSD25401Q3
2B	20	8	—	39.0	56.0	71.0	—	2.6	0.5	6-SON	296-25444-1-ND ***NEW!***	1.37	1.08	.98	296-25444-2-ND ***NEW!***	3,000	504.00/M	CSD25302Q2
3	12	5	—	66.0	77.0	—	110.0	1.9	0.40	4-DSBGA	296-24258-1-ND	1.48	1.17	1.06	296-24258-2-ND	3,000	546.00/M	CSD23201W10
4	20	8	—	62.0	80.0	—	175.0	2.0	0.32	6-DSBGA	296-24259-1-ND	1.63	1.29	1.17	296-24259-2-ND	3,000	602.00/M	CSD25301W015
	20	8	—	80.0	101.0	150.0	—	1.5	0.30	6-DSBGA	296-24261-1-ND	1.60	1.26	1.14	296-24261-2-ND	3,000	588.00/M	CSD75301W1015
5	-20	-0.7	—	33.0	42.0	52.0	—	4.3	0.7	9DSGBGA	296-27609-1-ND ***NEW!***	1.93	1.49	1.35	296-27609-2-ND ***NEW!***	3,000	743.00/M	CSD25201W15
	-20	-0.7	—	80.0	105.0	140.0	—	2.8	0.6	9DSGBGA	296-25334-1-ND ***NEW!***	1.93	1.49	1.35	296-25334-2-ND ***NEW!***	3,000	742.50/M	CSD75204W15
6	-20	-0.65	—	95.0	115.0	145.0	—	1.6	0.4	9DSGBGA	296-25335-1-ND ***NEW!***	1.93	1.49	1.35	296-25335-2-ND ***NEW!***	3,000	742.50/M	CSD75205W1015

◆ ***RoHS Compliant***

296-27450-ND **(CSD163CEVM-591)** ***NEW!*** Evaluation Module..**$50.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IXYS Semiconductors — Integrated Circuits

Description	Package	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Integrated Circuits						
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	6-DFN	IXDF502D1CT-ND†	2.17	1.34	1.09	IXDF502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	8-SOIC	IXDI502SIACT-ND†	1.84	1.15	.92	IXDI502SIAT/R
		IXDI502SIATR-ND‡	1450.00/2,500			IXDI502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	6-DFN	IXDI502D1CT-ND†	2.00	1.25	1.00	IXDI502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET Driver with both Drivers Non-Inverting	8-SOIC	IXDN402SI-ND✔	1.45	1.32	1.15	IXDN402SI
2 Amp Dual Low-Side Ultrafast MOSFET Driver with both Drivers Non-Inverting	8-SOIC	IXDN502SIA-ND✔	.84	.76	.66	IXDN502SIA
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Non-Inverting	6-DFN	IXDN502D1CT-ND†	2.04	1.27	1.03	IXDN502DIT/R
4 Amp Dual Low-Side Ultrafast MOSFET Driver with Enable	8-SOIC	IXDD404SI-ND	2.65	2.12	1.76	IXDD404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver with Enable	8-SOIC	IXDD404SIA-ND✔	2.23	2.02	1.76	IXDD404SIA
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDN404SI-ND	2.65	2.12	1.76	IXDN404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver with both Drivers Non-Inverting	8-SOIC	IXDN504SIA-ND✔	1.22	1.11	.96	IXDN504SIA
9 Amp Low-Side Ultrafast MOSFET Driver with Enable	8-Dip	IXDD409PI-ND✔	1.83	1.66	1.44	IXDD409PI
9 Amp Low-Side Ultrafast MOSFET Driver with Enable	8-SOIC	IXDD409SI-ND✔	1.97	1.79	1.56	IXDD409SI
9 Amp Low-Side Ultrafast MOSFET Driver with Enable	TO-263-5	IXDD409YI-ND✔	2.42	2.19	1.92	IXDD409YI
9 Amp Low-Side Ultrafast MOSFET Driver with Enable	6-DFN	IXDD509D1-ND✔	1.98	1.65	1.10	IXDD509D1
9 Amp Low-Side Ultrafast MOSFET Driver, Inverting	TO-220-5	IXDI409CI-ND✔	2.42	2.19	1.92	IXDI409CI
9 Amp Low-Side Ultrafast MOSFET Driver, Non-Inverting	8-Dip	IXDN409PI-ND✔	1.83	1.66	1.44	IXDN409PI
9 Amp Low-Side Ultrafast MOSFET Driver, Non-Inverting	8-SOIC	IXDN409SI-ND✔	1.97	1.79	1.56	IXDN409SI
14 Amp Low-Side Ultrafast MOSFET Driver with Enable	TO-220-5	IXDD414CI-ND	3.65	2.92	2.43	IXDD414CI
14 Amp Low-Side Ultrafast MOSFET Driver with Enable	8-Dip	IXDD414PI-ND	2.93	2.34	1.95	IXDD414PI
14 Amp Low-Side Ultrafast MOSFET Drivers, with Enable	6-DFN	IXDD514D1-ND✔	2.35	1.88	1.56	IXDD514D1
14 Amp Low-Side Ultrafast MOSFET and IGBT Driver w/ Inverting Gate Driver	14-SOIC	IXDI414SI-ND✔	2.88	2.61	2.27	IXDI414SI
14 Amp Low-Side Ultrafast MOSFET and IGBT Driver w/ Non-Inverting Gate Driver	TO-220-5	IXDN414CI-ND✔	3.80	3.44	3.00	IXDN414CI
14 Amp Low-Side Ultrafast MOSFET and IGBT Driver w/ Non-Inverting Gate Driver	8-Dip	IXDN414PI-ND✔	2.46	2.23	1.95	IXDN414PI
14 Amp Low-Side Ultrafast MOSFET and IGBT Driver w/ Non-Inverting Gate Driver	TO-263-5	IXDN414YI-ND✔	3.84	3.48	3.04	IXDN414YI
15 Amp Dual Low-Side Ultrafast MOSFET Driver with two Enable	28-SOIC	IXDD415SI-ND✔	17.08	13.66	11.34	IXDD415SI
30 Amp Low-Side Ultrafast MOSFET and IGBT Driver with Non-Inverting Driver	TO-220-5	IXDN430CI-ND✔	6.53	5.91	5.16	IXDN430CI
30 Amp Low-Side Ultrafast MOSFET and IGBT Driver with Non-Inverting Driver	TO-263-5	IXDN430YI-ND✔	6.53	5.91	5.16	IXDN430YI
Inverter Interface and Digital Deadtime Generator for 3-Phase PWM Controls	18-Dip	IXDP630PI-ND	4.77	3.98	3.18	IXDP630PI
Bus Compatible Digital PWM Controller	18-Dip	IXDP610PI-ND✔	6.26	5.67	4.44	IXDP610PI

† Cut Tape ‡ Tape and Reel ***✔ NEW!***

Description	Package	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
NEW! LED Drivers NEW!						
4-Channel High-Side Linear WLED Driver	16-WQFN	LDS8141-002-T2-1-ND†	.78	.71	.65	LDS8141-002-T2
		LDS8141-002-T2-2-ND‡	984.20/2,000			LDS8141-002-T2
Dual Output RGB / 6-Channel WLED Driver	16-WQFN	LDS8160-002-T2-1-ND†	1.07	.71	.65	LDS8160-002-T2
		LDS8160-002-T2-2-ND‡	984.20/2,000			LDS8160-002-T2
6-Channel High-Side Linear WLED Driver	16-WQFN	LDS8161-002-T2-1-ND†	.78	.71	.65	LDS8161-002-T2
		LDS8161-002-T2-2-ND‡	984.20/2,000			LDS8161-002-T2
200mA, Dual Output LED Flash/ Lamp Driver	16-WQFN	LDS8620-002-T2-1-ND†	.84	.56	.51	LDS8620-002-T2
		LDS8620-002-T2-2-ND‡	771.40/2,000			LDS8620-002-T2
960mA, Dual Output LED Flash/ Lamp Driver	16-WQFN	LDS8621002-T2-960-1-ND†	.61	.56	.51	LDS8621002-T2-960
		LDS8621002-T2-960-2-ND‡	771.40/2,000			LDS8621002-T2-960
800mA White LED Driver for Photo Flash	16-WQFN	LDS8680008-T2-1-ND†	.61	.56	.51	LDS8680008-T2
		LDS8680008-T2-2-ND‡	771.40/2,000			LDS8680008-T2
800mA, Dual Output LED Flash/ PWM Dimming Lamp Driver	16-WQFN	LDS8681008-T2-1-ND†	.61	.56	.51	LDS8681008-T2
		LDS8681008-T2-2-ND‡	771.40/2,000			LDS8681008-T2
4-Channel Ultra Low Dropout No Noise LED Driver, 2 Input	16-WQFN	LDS8845-002-T2-1-ND†	.44	.40	.37	LDS8845-002-T2
		LDS8845-002-T2-2-ND‡	558.60/2,000			LDS8845-002-T2
4-Channel Ultra Low Dropout No Noise LED Driver, 3 Input	16-WQFN	LDS8846-002-T2-1-ND†	.44	.40	.37	LDS8846-002-T2
		LDS8846-002-T2-2-ND‡	558.60/2,000			LDS8846-002-T2
6-Channel Ultra Low Dropout LED Driver	16-WQFN	LDS8865002-T2-250-1-ND†	.59	.54	.49	LDS8865002-T2-250
		LDS8865002-T2-250-2-ND‡	744.80/2,000			LDS8865002-T2-250
6-Channel Ultra Low Dropout LED Driver	16-WQFN	LDS8866002-T2-300-1-ND†	.59	.54	.49	LDS8866002-T2-300
		LDS8866002-T2-300-2-ND‡	744.80/2,000			LDS8866002-T2-300
6-Channel Ultra Low Dropout LED Driver	16-WQFN	LDS8868-002-T2-1-ND†	.59	.54	.49	LDS8868-002-T2
		LDS8868-002-T2-2-ND‡	744.80/2,000			LDS8868-002-T2
6-Channel Ultra Low Dropout LED Driver	16-WQFN	LDS8869-002-T2-1-ND†	.59	.54	.49	LDS8869-002-T2
		LDS8869-002-T2-2-ND‡	744.80/2,000			LDS8869-002-T2
High Power LED Temperature and PWM Controller	16-WQFN	LDS9003-002-T2-1-ND†	.78	.71	.65	LDS9003-002-T2
		LDS9003-002-T2-2-ND‡	984.20/2,000			LDS9003-002-T2

† Cut Tape ‡ Tape and Reel

Semiconductors

Dimensions in mm

Fig. 1

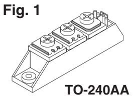

TO-240AA

Fig. 2 ***NEW!***

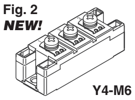

Y4-M6

Fig. 3 ***NEW!***

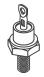

DO-203AA, DO-203AB

Fig. 4

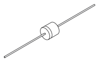

Axial

Fig. 5

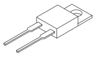

TO-220AC

Fig. 6

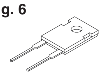

TO-247AD, TO-247

Fig. 7

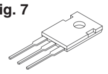

TO-247AD, TO-247

Fig. 8

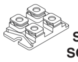

SOT-227, SOT-227B miniBLOC™

Fig. 9 ***NEW!***

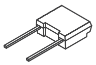

FP Case

Fig. 10

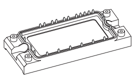

Fig. 11

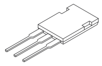

PLUS247™, ISOPLUS247™

Fig. 12

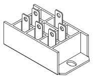

VHF28

Fig. 13

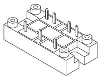

VU052

Fig. 14

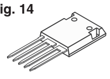

ISOPLUS i4™, ISOPLUS i5™

Fig. 15

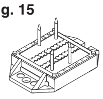

VBE17

Fig. 16

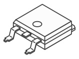

TO-252, TO-252AA

Fig. 17

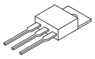

TO-220, TO-220AB, TO-251

Fig. 18

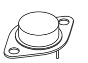

TO-204AE

Fig. 19

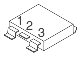

TO-268

Fig. 20

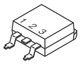

TO-263

Fig. 21

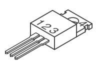

TO-220AB

Fig. 22

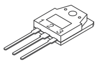

TO-3P

Fig. 23

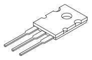

PLUS264™, TO-264, TO-264AA

Fig. 24 ***NEW!***

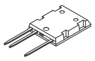

ISOPLUS i5-PAC™

Fig. 25 ***NEW!***

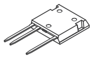

ISOPLUS i4-PAC™

Fig. 26

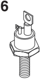

TO-48, TO-64, TO-65

Fig. 27

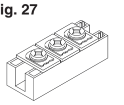

MCC162

Fig. 28 ***NEW!***

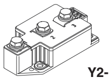

Y2-DCB

Fig. 29 ***NEW!***

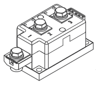

Y1-CU

Fig. 30

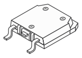

TO-268

Fig. 31

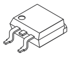

TO-263

Fig. 32

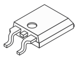

PLUS220SMD

Fig. 33

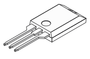

ISOPLUS220™, PLUS220

Fig. 34

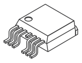

TO-263-7

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Diode Module — RoHS Compliant									
1	1200	2x120	105	2x180	MDD95-12N1B-ND	49.73	39.78	29.83	MDD95-12N1B
	2200	2x120	105	2x180	MDD95-22N1B-ND ***NEW!***	55.69	50.39	39.78	MDD95-22N1B
2	1600	2x190	100	2x300	MDD172-16N1-ND ***NEW!***	91.88	73.50	54.19	MDD172-16N1
NEW! Avalanche Diode NEW!									
3	1600	110	100	160	DSA75-16B-ND	23.08	20.89	16.49	DSA75-16B
	1600	110	100	160	DSAI75-16B-ND	23.08	20.89	16.49	DSAI75-16B

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Avalanche Diode — RoHS Compliant									
3	1600	25	125	40	DSA17-16A-ND ***NEW!***	7.92	7.17	5.66	DSA17-16A
	1600	25	125	40	DSAI17-16A-ND ***NEW!***	7.92	7.17	5.66	DSAI17-16A
	1600	49	100	80	DSAI35-16A-ND ***NEW!***	13.46	12.18	9.62	DSAI35-16A
4	1600	3.6	45	7	DSA2-16A-ND	4.38	3.50	2.63	DSA2-16A

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IXYS Semiconductors *(Cont.)*

Fig.	V_{RRM} V	I_{FAV} A	@ T_C °C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Fast Recovery Epitaxial Diodes (FRED) — RoHS Compliant								
2	200	356	75	MEK350-02DA-ND ***NEW!***	93.70	84.78	77.55	MEK350-02DA
	200	582	75	MEO550-02DA-ND ***NEW!***	102.82	93.03	73.44	MEO550-02DA
5	600	8	115	DSEI8-06A-ND	1.10	.88	.66	DSEI8-06A
	600	14	100	DSEI12-06A-ND	1.60	1.28	.96	DSEI12-06A
	1000	12	100	DSEI12-10A-ND	1.65	1.32	.99	DSEI12-10A
	1200	11	100	DSEI12-12A-ND	1.68	1.34	1.01	DSEI12-12A
	1200	17	85	DSEI20-12A-ND	2.70	2.16	1.63	DSEI20-12A
6	600	37	85	DSEI30-06A-ND	3.55	2.84	2.37	DSEI30-06A
	1000	30	85	DSEI30-10A-ND	3.65	2.92	2.19	DSEI30-10A
	1200	26	85	DSEI30-12A-ND	3.73	2.98	2.23	DSEI30-12A
	600	60	70	DSEI60-06A-ND	5.65	4.52	3.39	DSEI60-06A
	1000	60	60	DSEI60-10A-ND	5.83	4.66	3.49	DSEI60-10A
	1200	52	60	DSEI60-12A-ND	5.93	4.74	3.55	DSEI60-12A
7	200	2x34	115	DSEK60-02A-ND ***NEW!***	5.45	4.36	3.15	DSEK60-02A
	600	2x30	85	DSEK60-06A-ND	5.73	4.58	3.43	DSEK60-06A
8	600	2x106	70	DSEI2X101-06A-ND	34.65	27.72	20.78	DSEI2X101-06A
	1200	2x91	50	DSEI2X101-12A-ND ***NEW!***	30.49	27.59	21.63	DSEI2X101-12A
	200	2x123	70	DSEI2X121-02A-ND	33.00	26.40	19.79	DSEI2X121-02A
	600	2x30	85	DSEI2X30-06C-ND ***NEW!***	20.62	18.66	14.74	DSEI2X30-06C
	1000	2x30	50	DSEI2X31-10B-ND	25.25	20.20	15.16	DSEI2X31-10B
	600	2x60	70	DSEI2X61-06C-ND	28.78	23.02	17.26	DSEI2X61-06C
	1000	2x60	50	DSEI2X61-10B-ND	29.60	23.68	17.76	DSEI2X61-10B
	1200	2x52	50	DSEI2X61-12B-ND ***NEW!***	25.33	22.92	18.09	DSEI2X61-12B
HIPerFRED™ Epitaxial Diode with Soft Recovery — RoHS Compliant								
5	1200	10	115	DSEP8-12A-ND ***NEW!***	1.53	1.22	.83	DSEP8-12A
	1200	15	125	DSEP12-12A-ND ***NEW!***	1.72	1.56	1.18	DSEP12-12A
	600	15	140	DSEP15-06A-ND ***NEW!***	1.88	1.50	1.27	DSEP15-06A
	600	30	135	DSEP29-06A-ND ***NEW!***	2.98	2.38	2.01	DSEP29-06A
	1200	30	115	DSEP29-12A-ND ***NEW!***	3.28	2.62	1.95	DSEP29-12A
6	600	30	135	DSEP30-06A-ND	4.13	3.30	2.73	DSEP30-06A
	600	30	115	DSEP30-06BR-ND ***NEW!***	5.99	5.42	4.27	DSEP30-06BR
	1200	30	115	DSEP30-12A-ND	4.50	3.60	2.70	DSEP30-12A
	1200	60	90	DSEP60-12A-ND ***NEW!***	6.66	6.03	4.22	DSEP60-12A
7	600	30	90	DSEE30-12A-ND ***NEW!***	6.60	5.28	4.20	DSEE30-12A
	600	2x30	135	DSEC60-06A-ND ***NEW!***	5.54	5.02	3.97	DSEC60-06A
8	600	2x60	65	DSEP2X61-06A-ND	35.00	28.00	21.00	DSEP2X61-06A
	1200	2x60	80	DSEP2X61-12A-ND ***NEW!***	44.63	35.70	23.75	DSEP2X61-12A
	600	2x90	55	DSEP2X91-06A-ND ***NEW!***	34.23	30.97	30.79	DSEP2X91-06A
NEW! HIPerFRED² Low Loss Diode with Soft Recovery — RoHS Compliant NEW!								
7	300	30	135	DPG60C300HB-ND	3.40	3.08	2.43	DPG60C300HB
NEW! Super Fast Recovery Diode NEW!								
7	1800	63	60	DSDI60-18A-ND	11.68	10.57	7.40	DSDI60-18A
NEW! Super Fast Recovery Diode — RoHS Compliant NEW!								
7	1600	63	60	DSDI60-16A-ND	17.39	15.74	13.74	DSDI60-16A
NEW! Single Diode — RoHS Compliant NEW!								
6	1600	45	130	DSI45-16A-ND	3.83	3.06	2.78	DSI45-16A

Fig.	V_{BO} ±50 V	I_D µA	I_{RMS} A	I_{AVM} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
NEW! Single Breakover Diode — RoHS Compliant NEW!									
9	800	20	1.4	0.9	IXBOD1-08-ND	13.15	11.90	9.39	IXBOD1-08
	900	20	1.4	0.9	IXBOD1-09-ND	13.15	11.90	9.39	IXBOD1-09
	1000	20	1.4	0.9	IXBOD1-10-ND	13.15	11.90	9.39	IXBOD1-10

Fig.	V_{RRM} V	I_{FAV} A	@ T_C °C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase-Leg Rectifier Diode — RoHS Compliant									
7	1200	2x28	100	2x43	DSP25-12A-ND	4.25	3.40	2.55	DSP25-12A
	1600	2x28	100	2x43	DSP25-16A-ND	4.65	3.72	2.79	DSP25-16A
	1200	2x45	130	2x45	DSP45-12A-ND ***NEW!***	5.53	4.42	4.04	DSP45-12A
	1600	2x45	130	2x45	DSP45-16A-ND ***NEW!***	6.05	4.84	3.90	DSP45-16A

Fig.	Three Phase Rectifier	Brake Chopper	Three Phase Inverter	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Converter-Brake-Inverter Modules — RoHS Compliant								
10	VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	MUBW10-06A7-ND	73.75	59.00	44.26	MUBW10-06A7

Fig.	V_{RRM} V	I_{FAV} A	@ T_C °C	V_F V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Power Schottky Rectifier									
7	45	2x30	150	0.60	DSSK60-0045A-ND	4.93	3.94	2.96	DSSK60-0045A
8	45	2x120	100	0.59	DSS2X121-0045B-ND	32.13	25.70	19.27	DSS2X121-0045B
Power Schottky Rectifier — RoHS Compliant									
7	200	2x45	145	0.96	DSA90C200HB-ND ***NEW!***	4.52	4.09	3.23	DSA90C200HB
	15	2x20	135	0.32	DSSK40-0015B-ND	3.45	2.76	2.07	DSSK40-0015B
	150	2x30	155	0.69	DSSK60-015A-ND	6.38	5.10	3.82	DSSK60-015A
	15	2x35	130	0.33	DSSK70-0015B-ND	4.93	3.94	2.96	DSSK70-0015B
	45	2x40	125	0.45	DSSK80-0045B-ND	5.78	4.62	3.47	DSSK80-0045B
8	100	2x40	110	0.70	DSS2X41-01A-ND	26.88	21.50	16.12	DSS2X41-01A
	100	2x60	105	0.73	DSS2X61-01A-ND	28.23	22.58	16.94	DSS2X61-01A
	45	2x60	105	0.66	DSS2X61-0045A-ND	26.90	21.52	16.14	DSS2X61-0045A
	150	2x100	110	0.77	DSS2X101-015A-ND ***NEW!***	29.67	26.85	24.32	DSS2X101-015A
	200	2x100	105	0.84	DSS2X101-02A-ND ***NEW!***	32.38	29.30	23.13	DSS2X101-02A
	100	2x160	150	0.80	DSS2X160-01A-ND	32.45	25.96	19.48	DSS2X160-01A
NEW! Power Schottky Diode with Common Cathode — RoHS Compliant NEW!									
7	200	2x30	155	0.70	DSSK60-02A-ND	5.84	5.29	4.17	DSSK60-02A
	60	2x40	120	0.51	DSSK80-006B-ND	5.78	4.62	3.14	DSSK80-006B
11	80	2X35	150	0.64	DSSK70-008AR-ND	8.93	7.14	5.36	DSSK70-008AR

Fig.	V_{RRM} V	I_{dAVM} A	@ T_K °C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Half Controlled Single Phase Rectifier Bridge with Freewheeling Diode — RoHS Compliant								
12	1600	32	85	VHF28-16IO5-ND	36.90	29.52	22.14	VHF28-16IO5
Half Controlled Three Phase Rectifier Bridge with Freewheeling Diode								
13	1600	54	90	VUO52-16NO1-ND	45.13	36.10	27.08	VUO52-16NO1
NEW! Three Phase Rectifier Bridge — RoHS Compliant NEW!								
14	1200	35	120	FUO22-12N-ND	8.17	7.40	5.84	FUO22-12N

Fig.	V_{RRM} V	I_{dAVM} A	@ T_C °C	Digi-Key Part No.	Price Each 1	50	100	IXYS Part No.
ECO-PAC1™ Single Phase Bridge Rectifier with FRED — RoHS Compliant								
15	1200	90	85	VBE17-12NO7-ND	19.95	11.97	11.58	VBE17-12NO7

Fig.	V_{AK} V	I_D T_C = 25°C A	I_{AP} typ. mA	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Current Regulators — RoHS Compliant								
16	900	-0.3	9	IXCY10M90S-ND ***NEW!***	2.52	2.28	1.99	IXCY10M90S
17	450	-0.3	10	IXCP10M45S-ND	2.10	1.68	1.39	IXCP10M45S

Fig.	V_{CES} V	I_C T_C = 25°C A	V_{CE} (sat) max. V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
IGBTs — Insulated Gate Bipolar Transistors — High Speed								
7	600	48	2.5	IXGH24N60B-ND	7.18	5.74	4.76	IXGH24N60B
IGBTs — Insulated Gate Bipolar Transistors — High Speed — RoHS Compliant								
7	600	48	2.7	IXGH24N60A-ND	7.18	5.74	4.76	IXGH24N60A
	1200	48	4.2	IXGH24N120C3H1-ND	11.25	9.38	7.50	IXGH24N120C3H1
	600	60	2.5	IXGH32N60C-ND	8.73	6.98	5.79	IXGH32N60C
	600	75	3.0	IXSH40N60A-ND	11.08	8.86	7.35	IXSH40N60A
	600	75	2.7	IXGH40N60C2-ND ***NEW!***	4.07	3.69	3.21	IXGH40N60C2
	600	75	2.7	IXGH50N60A-ND	12.25	9.80	8.09	IXGH50N60A
	600	75	2.5	IXGH50N60B-ND	13.73	10.98	9.12	IXGH50N60B
	600	75	2.5	IXGH60N60C2-ND ***NEW!***	6.38	5.78	5.05	IXGH60N60C2
11	600	56	2.7	IXGR40N60C2D1-ND ***NEW!***	6.72	6.08	5.32	IXGR40N60C2D1
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — low V_{CE} (sat) — RoHS Compliant								
7	1700	25	3.3	IXBH16N170-ND	13.73	10.98	9.12	IXBH16N170
	1000	34	3.5	IXGH17N100U1-ND	9.25	7.40	6.11	IXGH17N100U1
	600	60	2.3	IXGH32N60BU1-ND	10.80	8.64	7.16	IGH32N60BU1
8	600	160	2.5	IXSN80N60BD1-ND ***NEW!***	39.94	36.14	28.33	IXSN80N60BD1
18	600	75	3.0	IXGM40N60A-ND	33.23	26.58	22.06	IXGM40N60A
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — High Speed								
7	1000	34	4.0	IXGH17N100AU1-ND	9.25	7.40	6.11	IXGH17N100AU1
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — High Speed — RoHS Compliant								
7	1000	20	4.0	IXGH10N100AU1-ND	6.58	5.27	4.35	IXGH10N100AU1
	1700	16	6.0	IXBH16N170A-ND ***NEW!***	11.89	10.76	9.39	IXBH16N170A
	600	48	2.7	IXGH24N60AU1-ND	8.67	6.94	5.72	IXGH24N60AU1
	600	60	1.8	IXGH30N60BD1-ND	12.83	10.26	8.52	IXGH30N60BD1
	600	60	2.5	IXGH32N60CD1-ND	11.03	8.82	7.32	IXGH32N60CD1
	1700	80	2.8	IXBH42N170-ND ***NEW!***	21.53	19.48	17.01	IXBH42N170
19	1700	80	2.8	IXBT42N170-ND ***NEW!***	22.64	20.49	17.90	IXBT42N170
IGBT High Speed with Diode — RoHS Compliant								
7	600	20	2.5	IXSH10N60B2D1-ND	3.60	2.88	2.39	IXSH10N60B2D1
	600	35	2.5	IXSH20N60B2D1-ND	5.10	4.08	3.39	IXSH20N60B2D1
	1200	48	4.2	IXGH24N120C3-ND	6.25	5.00	4.15	IXGH24N120C3
	600	70	1.8	IXGH30N60B2D1-ND ***NEW!***	4.33	3.92	3.43	IXGH30N60B2D1
	600	48	2.5	IXSH30N60B2D1-ND	6.58	5.26	4.37	IXSH30N60B2D1
	600	60	3.0	IXGH30N60C3C1-ND ***NEW!***	17.40	13.92	11.49	IXGH30N60C3C1
	1200	150	3.5	IXGH30N120B3D1-ND	7.50	6.00	4.98	IXGH30N120B3D1
	1200	48	4.2	IXGH30N120C3H1-ND	6.83	5.46	4.51	IXGH30N120C3H1
	1200	75	2.35	IXGH32N120A3-ND	7.78	6.22	5.16	IXGH32N120A3
	1400	70	4.0	IXSH35N140A-ND ***NEW!***	14.53	13.15	11.49	IXSH35N140A
	1200	40	4.4	IXGH40N120C3-ND	9.31	7.45	6.15	IXGH40N120C3
	1200	75	4.4	IXGH40N120C3D1-ND	11.58	9.26	7.64	IXGH40N120C3D1
	1600	33	7.1	IXBH40N160-ND ***NEW!***	34.08	27.26	22.63	IXBH40N160
	600	75	2.7	IXGH40N60C2D1-ND ***NEW!***	4.94	4.47	3.91	IXGH40N60C2D1
	600	75	2.5	IXGH48N60C3C1-ND ***NEW!***	68.18	54.54	45.00	IXGH48N60C3C1
	1200	50	4.2	IXGH50N120C3-ND	13.56	10.85	8.96	IXGH50N120C3
	900	75	2.7	IXGH50N90B2D1-ND ***NEW!***	7.22	6.54	5.71	IXGH50N90B2D1
8	600	75	2.5	IXGN60N60C2D1-ND ***NEW!***	18.82	17.03	13.35	IXGN60N60C2D1
11	1200	48	4.2	IXGR24N120C3D1-ND	9.95	7.96	6.61	IXGR24N120C3D1
	600	75	2.5	IXGR60N60C3C1-ND ***NEW!***	54.00	43.20	35.64	IXGR60N60C3C1
17	1200	30	3.5	IXGP24N120C3-ND	5.06	4.05	3.35	IXGP24N120C3
	600	60	3.0	IXGP30N60C3C1-ND ***NEW!***	17.60	14.08	11.62	IXGP30N60C3C1
	1200	30	3.5	IXGP30N120B3-ND	6.75	5.63	4.50	IXGP30N120B3
19	600	48	2.5	IXST30N60B2D1-ND	7.80	6.24	5.18	IXST30N60B2D1
	1200	150	3.5	IXGT30N120B3D1-ND	7.75	6.20	5.15	IXGT30N120B3D1
	1200	75	2.35	IXGT32N120A3-ND	7.88	6.30	5.20	IXGT32N120A3
	1700	75	3.3	IXGT32N170CT-ND†	16.49	12.98	11.76	IXGT32N170 T&R
	1700	75	3.3	IXGT32N170TR-ND‡	4261.20/400			IXGT32N170 T&R
20	600	20	2.5	IXSA10N60B2D1-ND	2.93	2.34	1.94	IXSA10N60B2D1
	600	35	2.5	IXSA20N60B2D1-ND	4.48	3.58	2.97	IXSA20N60B2D1
	1200	40	2.5	IXGA20N120A3-ND	4.50	3.60	2.87	IXGA20N120A3
	1200	48	4.2	IXGA24N120C3-ND	6.93	5.54	4.58	IXGA24N120C3
	600	60	3.0	IXGA30N60C3C1-ND ***NEW!***	17.73	14.18	11.70	IXGA30N60C3C1
	1200	30	3.5	IXGA30N120B3-ND	7.68	6.14	5.07	IXGA30N120B3
21	600	20	2.5	IXSP10N60B2D1-ND	2.88	2.30	1.91	IXSP10N60B2D1
	600	35	2.5	IXSP20N60B2D1-ND	4.43	3.54	2.94	IXSP20N60B2D1
22	600	35	2.5	IXSQ20N60B2D1-ND	4.75	3.80	3.15	IXSQ20N60B2D1
NEW! IGBT Medium Speed with Diode — RoHS Compliant NEW!								
7	600	75	1.8	IXGH36N60B3C1-ND	67.25	53.80	44.39	IXGH36N60B3C1
	600	75	1.8	IXGH48N60B3C1-ND	35.93	28.74	23.72	IXGH48N60B3C1
IGBT Ultra-Low — RoHS Compliant								
7	1200	40	2.5	IXGH20N120A3-ND	5.75	4.60	3.83	IXGH20N120A3
	1200	240	2.2	IXGX120N120A3-ND	33.98	27.18	22.56	IXGX120N120A3
17	1200	40	2.5	IXGP20N120A3-ND	4.33	3.46	2.87	IXGP20N120A3
23	1200	240	2.2	IXGK120N120A3-ND	31.08	24.86	20.51	IXGK120N120A3
NEW! High Voltage IGBT — RoHS Compliant NEW!								
7	1700	6	7.0	IXGH6N170A-ND	3.47	3.14	2.74	IXGH6N170A
	1700	32	3.5	IXGH16N170-ND	8.80	7.97	6.95	IXGH16N170
	1700	75	3.3	IXGH32N170-ND	17.56	15.89	13.87	IXGH32N170
	1200	75	3.0	IXSH45N120-ND	14.28	12.92	11.29	IXSH45N120
8	1200	150	2.7	IXDN75N120-ND	47.17	42.68	33.69	IXDN75N120
24	4000	40 @ 90°C	4.0	IXEL40N400-ND	102.90	93.10	81.34	IXEL40N400
25	2500	32	3.9	IXLF19N250A-ND	43.93	39.75	31.38	IXLF19N250A
NEW! NPT³ IGBT — RoHS Compliant NEW!								
8	1200	100	2.7	IXEN60N120D1-ND	36.44	32.97	26.49	IXEN60N120D1

† Cut Tape ‡ Tape and Reel

(Continued)

IXYS Semiconductors *(Cont.)*

Fig.	VCES V	IC TC = 25°C A	VCE (sat) max. V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
NEW! High Voltage, High Gain BIMOSFET™ Monolithic Bipolar MOS Transistors — RoHS Compliant NEW!								
7	2500	5	3.5	IXBH2N250-ND	10.92	9.88	9.10	IXBH2N250
	3000	30	3.2	IXBH12N300-ND	24.15	21.85	20.13	IXBH12N300
	3000	50	3.2	IXBH20N300-ND	34.23	30.97	28.53	IXBH20N300
	3000	80	3.2	IXBH32N300-ND	45.57	41.23	37.98	IXBH32N300
11	2500	55	3.3	IXBX25N250-ND	34.25	30.99	28.55	IXBX25N250
	3000	130	3.2	IXBX55N300-ND	104.75	94.78	87.29	IXBX55N300
19	2500	5	3.5	IXBT2N250-ND	14.28	12.92	11.90	IXBT2N250
	3000	30	3.2	IXBT12N300-ND	27.72	25.08	23.10	IXBT12N300
	3000	50	3.2	IXBT20N300-ND	38.01	34.39	31.68	IXBT20N300
	3000	80	3.2	IXBT32N300-ND	49.56	44.84	41.30	IXBT32N300
23	3000	130	3.2	IXBK55N300-ND	105.53	95.48	87.94	IXBK55N300
25	3000	22	3.2	IXBF12N300-ND	38.85	35.15	32.38	IXBF12N300
	3000	27	3.2	IXBF20N300-ND	49.14	44.46	40.95	IXBF20N300
	3000	40	3.2	IXBF32N300-ND	60.48	54.72	50.40	IXBF32N300

† Cut Tape ‡ Tape and Reel

Fig.	VDRM V	ITAV TC = 85°C A	ITRMS A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase Control SCRs								
26	800	25	50	CS23-08IO2-ND	18.85	15.08	11.31	CS23-08IO2
Phase Control SCRs — RoHS Compliant								
7	1200	50 @ 125°C	79	CLA50E1200HB-ND ***NEW!***	4.07	3.69	2.91	CLA50E1200HB
	1600	48 @ 75°C	75	CS45-16IO1-ND ***NEW!***	5.15	4.66	3.67	CS45-16IO1
25	2200	18 @ 90°C	200	CS20-22MOF1-ND ***NEW!***	41.38	33.10	28.54	CS20-22MOF1
26	800	16	25	CS8-08IO2-ND	11.73	9.38	7.04	CS8-08IO2
	1200	16	25	CS8-12IO2-ND	12.30	9.84	7.39	CS8-12IO2
	1200	25	50	CS23-12IO2-ND	19.78	15.82	11.87	CS23-12IO2
	800	63	120	CS35-08IO4-ND	24.83	19.86	14.89	CS35-08IO4
	1200	63	120	CS35-12IO4-ND	26.05	20.84	15.63	CS35-12IO4
	1400	63	120	CS35-14IO4-ND	27.30	21.84	16.38	CS35-14IO4

Fig.	VDRM VA	ITAV @ TC °C		ITRMS A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
SCR Module — RoHS Compliant									
1	1600	2x32	85	2x50	MCC26-16IO1B-ND	39.88	31.90	23.92	MCC26-16IO1B
	2200	2x104	85	2x180	MCC94-22IO1B-ND ***NEW!***	82.51	74.66	58.93	MCC94-22IO1B
	1200	2x116	85	2x180	MCC95-12IO1B-ND	58.03	46.42	34.81	MCC95-12IO1B
	1600	2x116	85	2x180	MCC95-16IO1B-ND	63.55	50.84	38.12	MCC95-16IO1B
	1600	2x116	85	2x180	MCD95-16IO8B-ND ***NEW!***	55.23	44.18	39.82	MCC95-16IO8B
27	1600	2x190	85	2x300	MCC162-16IO1-ND	118.30	94.64	70.99	MCC162-16IO1
28	1600	2x287	85	2x450	MCC250-16IO1-ND ***NEW!***	204.94	185.43	146.39	MCC250-16IO1
	1600	2x320	85	2x500	MCC310-16IO1-ND ***NEW!***	227.70	206.02	162.66	MCC310-16IO1
29	1600	2x320	85	2x520	MCC312-16IO1-ND ***NEW!***	285.79	258.58	204.13	MCC312-16IO1

Fig.	VDRM V	IRMS TC = 110°C A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
NEW! AC Controller Modules — RoHS Compliant NEW!							
8	1200	74	MMO74-12IO6-ND	25.26	22.86	18.04	MMO74-12IO6
	1600	74	MMO74-16IO6-ND	32.93	26.34	23.13	MMO74-16IO6

Fig.	VDSS max. V	ID25 TC = 25°C A	RDS(on) Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
NEW! CoolMOS™ Power MOSFET — RoHS Compliant NEW!								
23	600	85	0.036	IXKK85N60C-ND	36.16	32.72	25.83	IXKK85N60C
NEW! CoolMOS™ Power MOSFET — N-Channel Enhancement Mode — RoHS Compliant NEW!								
8	600	75	0.036	IXKN75N60C-ND	49.50	44.79	35.35	IXKN75N60C
MOSFETs — N-Channel Enhancement Mode — RoHS Compliant								
7	500	30	0.200	IXTH30N50L2-ND ***NEW!***	12.88	10.30	8.55	IXTH30N50L2
	100	75	0.020	IXFH75N10-ND ***NEW!***	10.48	9.49	8.28	IXFH75N10
8	500	46	0.16	IXTN46N50L-ND ***NEW!***	47.71	43.17	33.85	IXTN46N50L
18	500	24	0.23	IXFM24N50-ND ***NEW!***	20.54	18.59	16.24	IXFM24N50
	200	50	.045	IXFM50N20-ND	32.34	26.95	21.56	IXFM50N20
22	500	30	0.200	IXTQ30N50L2-ND ***NEW!***	12.25	9.80	8.09	IXTQ30N50L2
23	500	14	0.4	IRFP450X-ND	5.35	4.28	3.56	IRFP450
30	500	30	0.200	IXTT30N50L2-ND ***NEW!***	13.88	11.10	9.16	IXTT30N50L2
MOSFETs — P-Channel Enhancement Mode — RoHS Compliant								
23	-200	-24	.11	IXTH24P20-ND	8.20	6.56	5.44	IXTH24P20
	-600	-10	1.0	IXTH10P60-ND	9.00	7.20	5.98	IXTH10P60
MegaMOSFET™ — N-Channel Enhancement Mode - High Voltage — RoHS Compliant								
23	1100	13	0.920	IXTH13N110-ND	20.93	16.74	13.89	IXTH13N110
MegaMOSFET™ N-Channel Enhancement Mode — RoHS Compliant								
7	200	50	0.045	IXTH50N20-ND ***NEW!***	10.56	9.56	8.35	IXTH50N20
18	500	21	0.25	IXTM21N50-ND ***NEW!***	21.44	19.40	15.21	IXTM21N50
23	600	20	0.35	IXTH20N60-ND	12.40	9.92	8.23	IXTH20N60
	100	250	0.005	IXTK250N10-ND ***NEW!***	17.01	15.39	12.60	IXTK250N10
	500	20	0.27	IRFP460IX-ND	7.33	5.86	4.86	IRFP460
MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode								
7	800	7	1.4	IXFH7N80-ND	9.08	7.27	6.00	IXFH7N80
23	800	34	0.240	IXFK34N80-ND	30.87	25.73	20.58	IXFK34N80
MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
7	900	6	1.8	IXFH6N90-ND	13.00	10.40	8.58	IXFH6N90
	1000	6	2.0	IXFH6N100-ND	8.90	7.12	5.91	IXFH6N100
	1000	10	1.2	IXFH10N100-ND	15.93	12.74	10.57	IXFH10N100
	1000	12	1.05	IXFH12N100-ND	16.80	13.44	11.16	IXFH12N100
	500	13	0.4	IXFH13N50-ND	5.43	4.34	3.62	IXFH13N50
	800	13	0.80	IXFH13N80-ND	12.58	10.06	8.35	IXFH13N80
	800	15	0.600	IXFH15N80Q-ND	16.58	13.26	11.01	IXFH15N80Q
	500	16	0.4	IXFH16N50P-ND	3.68	2.94	2.44	IXFH16N50P
	600	20	0.35	IXFH20N60-ND	11.38	9.10	7.55	IXFH20N60
	800	20	0.420	IXFH20N80Q-ND	18.35	14.68	12.18	IXFH20N80Q
7	500	21	0.25	IXFH21N50-ND	8.63	6.90	5.73	IXFH21N50
	500	22	0.27	IXFH22N50P-ND	4.28	3.42	2.84	IXFH22N50P
	500	24	0.23	IXFH24N50-ND	9.45	7.56	6.27	IXFH24N50
	500	26	0.20	IXFH26N50-ND	9.98	7.98	6.62	IXFH26N50
	500	26	0.20	IXFH26N50Q-ND	9.98	7.98	6.62	IXFH26N50Q
	500	26	0.23	IXFH26N50P-ND	5.48	4.38	3.64	IXFH26N50P
	600	26	0.250	IXFH26N60Q-ND	14.53	11.62	9.64	IXFH26N60Q
	600	26	0.27	IXFH26N60P-ND	6.30	5.04	4.18	IXFH26N60P
	500	32	0.15	IXFH32N50-ND	16.20	12.96	10.76	IXFH32N50
	500	36	0.17	IXFH36N50P-ND	7.33	5.86	4.86	IXFH36N50P
	600	36	0.19	IXFH36N60P-ND	9.03	7.22	5.99	IXFH36N60P
	300	40	0.085	IXFH40N30-ND	9.95	7.96	6.61	IXFH40N30
	300	40	0.085	IXTH40N30-ND	12.83	10.26	8.52	IXTH40N30
	300	40	0.08	IXFH40N30Q-ND	9.95	7.96	6.61	IXFH40N30Q
	200	42	0.06	IXFH42N20-ND	12.00	9.60	7.92	IXFH42N20
	500	44	0.14	IXFH44N50P-ND	9.03	7.22	5.99	IXFH44N50P
	200	50	0.045	IXFH50N20-ND	9.75	7.80	6.47	IXFH50N20
	300	52	0.060	IXFH52N30Q-ND	15.13	12.10	10.04	IXFH52N30Q
	200	58	0.04	IXFH58N20-ND	10.18	8.14	6.76	IXFH58N20
	200	58	0.040	IXFH58N20Q-ND	10.18	8.14	6.76	IXFH58N20Q
	70	76	0.011	IXFH76N07-11-ND	9.75	7.80	6.47	IXFH76N07-11
	70	76	0.012	IXFH76N07-12-ND	9.28	7.42	6.15	IXFH76N07-12
	100	80	0.015	IXFH80N10Q-ND	13.75	11.00	9.13	IXFH80N10Q
	200	80	0.028	IXFH80N20Q-ND	14.68	11.74	9.74	IXFH80N20Q
11	1000	15	0.70	IXFX15N100-ND	17.85	14.28	11.85	IXFX15N100
	600	48	0.135	IXFX48N60P-ND	14.08	11.26	9.35	IXFX48N60P
	500	55	0.080	IXFX55N50-ND	28.35	22.68	18.82	IXFX55N50
	500	64	0.085	IXFX64N50P-ND	14.08	11.26	9.35	IXFX64N50P
	600	64	0.096	IXFX64N60P-ND	18.50	14.80	12.28	IXFX64N60P
	500	80	0.065	IXFX80N50P-ND	18.98	15.18	12.60	IXFX80N50P
	200	120	0.017	IXFX120N20-ND	19.80	15.84	13.15	IXFX120N20
21	600	10	0.74	IXFP10N60P-ND	2.50	2.00	1.66	IXFP10N60P
	500	12	0.5	IXFP12N50P-ND	2.50	2.00	1.66	IXFP12N50P
	600	14	0.55	IXFP14N60P-ND	3.05	2.44	2.03	IXFP14N60P
	500	16	0.4	IXFP16N50P-ND	3.05	2.44	2.03	IXFP16N50P
23	1000	24	0.390	IXFK24N100-ND	33.87	28.23	22.58	IXFK24N100
	800	27	0.300	IXFK27N80-ND	30.09	25.08	20.06	IXFK27N80
	600	36	0.19	IXFK36N60P-ND	11.67	9.73	7.78	IXFK36N60P
	500	44	0.14	IXFK44N50P-ND	11.67	9.73	7.78	IXFK44N50P
	600	44	0.130	IXFK44N60-ND	28.98	24.15	19.32	IXFK44N60
	500	46	0.16	IXTK46N50L-ND	50.07	41.73	33.38	IXTK46N50L
	500	48	0.10	IXFK48N50-ND	26.94	22.45	17.96	IXFK48N50
	600	48	0.135	IXFK48N60P-ND	16.23	13.53	10.82	IXFK48N60P
	500	55	0.09	IXFK55N50-ND	33.48	27.90	22.32	IXFK55N50
	500	64	0.085	IXFK64N50P-ND	16.23	13.53	10.82	IXFK64N50P
	600	64	0.096	IXFK64N60P-ND	21.96	18.30	14.64	IXFK64N60P
	300	73	0.045	IXFK73N30-ND	24.48	20.40	16.32	IXFK73N30
	500	80	0.065	IXFK80N50P-ND	22.08	18.40	14.72	IXFK80N50P
	200	90	0.023	IXFK90N20-ND	23.73	19.78	15.82	IXFK90N20
	70	110	0.006	IXFK110N07-ND	17.85	14.88	11.90	IXFK110N07
	200	120	0.017	IXFK120N20-ND	25.68	21.40	17.12	IXFK120N20
	100	180	0.008	IXFK180N10-ND	24.45	20.38	16.30	IXFK180N10
30	500	36	0.17	IXFT36N50P-ND	7.70	6.16	5.11	IXFT36N50P
	600	36	0.19	IXFT36N60P-ND	9.48	7.58	6.29	IXFT36N60P
	500	44	0.14	IXFT44N50P-ND	9.48	7.58	6.29	IXFT44N50P
31	600	10	0.74	IXFA10N60P-ND	2.60	2.08	1.73	IXFA10N60P
32	600	22	0.35	IXFV22N60PS-ND	6.03	4.82	4.00	IXFV22N60PS
33	500	22	0.27	IXFV22N50P-ND	4.80	3.84	3.19	IXFV22N50P
	500	26	0.23	IXFV26N50P-ND	6.03	4.82	4.00	IXFV26N50P
	500	30	0.2	IXFV30N50P-ND	6.85	5.48	4.55	IXFV30N50P
	600	30	0.24	IXFV30N60P-ND	7.98	6.38	5.30	IXFV30N60P
	300	52	0.066	IXFV52N30P-ND	5.78	4.62	3.83	IXFV52N30P
MOSFETs — MiniBLOC™ N-Channel Enhancement Mode with Fast Intrinsic Diode								
8	200	120	0.017	IXFN120N20-ND	42.81	35.68	28.54	IXFN120N20
MOSFETs — MiniBLOC™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
8	1000	24	0.390	IXFN24N100-ND	50.79	42.33	33.86	IXFN24N100
	600	36	0.18	IXFN36N60-ND	45.51	37.93	30.34	IXFN36N60
	1000	36	0.24	IXFN36N100-ND	87.33	72.78	58.22	IXFN36N100
	900	33	0.210	IXFN40N90P-ND ***NEW!***	37.88	30.30	22.72	IXFN40N90P
	600	40	0.14	IXFN48N60P-ND	30.36	25.30	20.24	IXFN48N60P
	500	44	0.12	IXFN44N50-ND	35.70	29.75	23.80	IXFN44N50
	500	48	0.10	IXFN48N50-ND	36.42	30.35	24.28	IXFN48N50
	900	43	0.160	IXFN52N90P-ND ***NEW!***	45.38	36.30	27.25	IXFN52N90P
	500	55	0.090	IXFN55N50-ND ***NEW!***	33.33	30.16	23.65	IXFN55N50
	900	56	0.135	IXFN56N90P-ND ***NEW!***	53.25	42.60	35.15	IXFN56N90P
	600	50	0.096	IXFN64N60P-ND	35.73	29.78	23.82	IXFN64N60P
	500	61	0.085	IXFN64N50P-ND	30.36	25.30	20.24	IXFN64N50P
	500	66	0.065	IXFN80N50P-ND	36.33	30.28	24.22	IXFN80N50P
	500	80	0.050	IXFN80N50-ND	72.30	60.25	48.20	IXFN80N50
	600	72	0.075	IXFN82N60P-ND ***NEW!***	30.49	27.59	21.63	IXFN82N60P
	500	90	0.049	IXFN100N50P-ND ***NEW!***	30.49	27.59	21.63	IXFN100N50P
	200	106	0.020	IXFN106N20-ND	37.80	31.50	25.20	IXFN106N20
	200	115	0.018	IXFN140N20P-ND ***NEW!***	20.35	18.42	14.44	IXFN140N20P
	300	110	0.024	IXFN140N30P-ND ***NEW!***	25.01	22.63	17.75	IXFN140N30P
	300	130	0.022	IXFN130N30-ND	71.91	59.93	47.94	IXFN130N30
	100	180	0.008	IXFN180N10-ND ***NEW!***	28.50	25.79	20.21	IXFN180N10
	150	150	0.011	IXFN180N15P-ND ***NEW!***	20.35	18.42	14.44	IXFN180N15P
	200	180	0.010	IXFN180N20-ND	65.61	54.68	43.74	IXFN180N20

† Cut Tape ‡ Tape and Reel

(Continued)

IXYS Semiconductors *(Cont.)*

Digi-Reel®

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
8	70	200	0.006	IXFN200N07-ND	39.03	32.53	26.02	IXFN200N07
	100	200	0.0075	IXFN200N10P-ND ***NEW!***	20.35	18.42	14.44	IXFN200N10P
	150	240	0.0052	IXFN240N15T2-ND ***NEW!***	37.50	30.00	22.65	IXFN240N15T2
	170	260	0.0052	IXFN320N17T2-ND ***NEW!***	46.33	37.06	27.61	IXFN320N17T2
	150	310	0.004	IXFN360N15T2-ND ***NEW!***	46.33	37.06	27.61	IXFN360N15T2
	75	480	0.0019	IXFN520N075T2-ND ***NEW!***	30.25	24.20	18.15	IXFN520N075T2
11	100	180	0.008	IXFX180N10-ND	19.80	15.84	13.15	IXFX180N10
MOSFETs — ISOPLUS247™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
11	900	10.5	0.660	IXFR18N90P-ND ***NEW!***	11.38	9.10	7.55	IXFR18N90P
	900	13	0.460	IXFR24N90P-ND ***NEW!***	14.33	11.46	8.96	IXFR24N90P
	600	15	0.25	IXFR30N60P-ND	9.85	7.88	6.54	IXFR30N60P
	500	19	0.19	IXFR36N50P-ND	9.85	7.88	6.54	IXFR36N50P
	600	20	0.2	IXFR36N60P-ND	11.60	9.28	7.70	IXFR36N60P
	900	21	0.230	IXFR40N90P-ND ***NEW!***	24.70	19.76	16.31	IXFR40N90P
	600	36	0.105	IXFR64N60P-ND	20.05	16.04	13.31	IXFR64N60P
	600	38	0.130	IXFR44N60-ND	25.28	20.22	16.78	IXFR44N60
	500	45	0.072	IXFR80N50P-ND	20.48	16.38	13.60	IXFR80N50P
	200	105	0.017	IXFR120N20-ND	22.45	17.96	14.90	IXFR120N20
	100	165	0.008	IXFR180N10-ND	22.03	17.62	14.62	IXFR180N10
MOSFETs — ISOPLUS220™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
33	500	10	0.45	IXFC16N50P-ND	4.85	3.88	3.22	IXFC16N50P
	500	15	0.26	IXFC26N50P-ND	6.75	5.40	4.48	IXFC26N50P
	600	15	0.250	IXFC30N60P-ND ***NEW!***	8.73	6.98	5.79	IXFC30N60P
	500	19	0.19	IXFC36N50P-ND	8.73	6.98	5.79	IXFC36N50P
MOSFETs — N-Channel Enhancement Avalanche Rated, High Voltage — RoHS Compliant								
17	1200	3	4.5	IXTP3N120-ND	5.68	4.54	3.77	IXTP3N120
20	1200	3	4.5	IXTA3N120CT-ND†	5.68	3.97	3.26	IXTA3N120TRL
	1200	3	4.5	IXTA3N120TR-ND‡		2319.20/800		IXTA3N120TRL
	1200	3	4.5	IXTA3N120-ND ***NEW!***	4.77	4.32	3.77	IXTA3N120
MOSFETs — N-Channel Enhancement Mode Avalanche Rated								
11	800	34	0.240	IXFX34N80-ND	23.10	18.48	15.34	IXFX34N80
MOSFETs — N-Channel Enhancement Mode Avalanche Rated — RoHS Compliant								
7	1000	12	1.05	IXFH12N100F-ND ***NEW!***	7.56	6.84	5.15	IXFH12N100F
	1000	14	0.950	IXFH14N100Q2-ND ***NEW!***	16.63	15.05	13.15	IXFH14N100Q2
	500	15	0.480	IXTH15N50L2-ND ***NEW!***	8.00	6.40	5.28	IXTH15N50L2
	600	26	0.270	IXTH26N60P-ND	6.25	5.00	4.15	IXTH26N60P
	500	30	0.200	IXFH30N50P-ND ***NEW!***	5.29	4.79	4.18	IXFH30N50P
	500	30	0.200	IXTH30N50P-ND	6.25	5.00	4.15	IXTH30N50P
	600	30	0.240	IXTH30N60P-ND	7.28	5.82	4.83	IXTH30N60P
	600	30	0.240	IXTH30N60L2-ND ***NEW!***	15.38	12.30	10.15	IXTH30N60L2
	500	32	0.16	IXFH32N50Q-ND ***NEW!***	13.61	12.32	10.76	IXFH32N50Q
	500	40	0.170	IXTH40N50L2-ND ***NEW!***	15.38	12.30	10.15	IXTH40N50L2
	250	110	0.024	IXTH110N25T-ND	6.85	5.48	4.55	IXTH110N25T
	100	130	0.0091	IXTH130N10T-ND	2.90	2.32	1.93	IXTH130N10T
	85	152	0.0070	IXTH152N085T-ND	2.90	2.32	1.93	IXTH152N085T
	100	160	0.0070	IXTH160N10T-ND	3.58	2.86	2.37	IXTH160N10T
	150	160	0.0096	IXFH160N15T-ND	7.10	5.68	4.71	IXFH160N15T
	85	180	0.0055	IXTH180N085T-ND	3.58	2.86	2.37	IXTH180N085T
	100	180	0.0064	IXTH180N10T-ND	4.03	3.22	2.67	IXTH180N10T
	75	200	0.0050	IXTH200N075T-ND	3.58	2.86	2.37	IXTH200N075T
	85	200	0.0050	IXTH200N085T-ND	4.03	3.22	2.67	IXTH200N085T
	100	200	0.0055	IXTH200N10T-ND	5.18	4.14	3.44	IXTH200N10T
	55	220	0.0040	IXTH220N055T-ND	3.58	2.86	2.37	IXTH220N055T
	75	220	0.0045	IXTH220N075T-ND	4.03	3.22	2.67	IXTH220N075T
	85	230	0.0044	IXTH230N085T-ND	5.18	4.14	3.44	IXTH230N085T
	55	240	0.0036	IXTH240N055T-ND	4.03	3.22	2.67	IXTH240N055T
	75	250	0.0040	IXTH250N075T-ND	5.18	4.14	3.44	IXTH250N075T
	55	280	0.0032	IXTH280N055T-ND	5.18	4.14	3.44	IXTH280N055T
8	800	44	0.165	IXFN44N80-ND ***NEW!***	64.09	57.99	45.47	IXFN44N80
	800	50	0.150	IXFN50N80Q2-ND ***NEW!***	49.37	44.67	35.30	IXFN50N80Q2
	500	53	0.100	IXTN60N50L2-ND ***NEW!***	46.75	37.40	30.86	IXTN60N50L2
	600	60	0.075	IXFN60N60-ND ***NEW!***	53.70	48.59	38.10	IXFN60N60
	250	90	0.033	IXTN90N25L2-ND ***NEW!***	46.75	37.40	30.86	IXTN90N25L2
	250	164	0.0129	IXFN180N25T-ND ***NEW!***	21.25	17.00	14.03	IXFN180N25T
	200	220	0.0075	IXFN230N20T-ND ***NEW!***	34.00	27.20	22.44	IXFN230N20T
	100	230	0.0060	IXFN230N10-ND ***NEW!***	46.01	41.63	32.65	IXFN230N10
	170	245	0.0065	IXFN260N17T-ND ***NEW!***	21.25	17.00	14.03	IXFN260N17T
	85	280	0.0044	IXFN280N085-ND ***NEW!***	38.45	34.79	27.28	IXFN280N085
	70	340	0.004	IXFN340N07-ND ***NEW!***	42.84	38.76	30.40	IXFN340N07
11	500	48	0.100	IXFX48N50Q-ND ***NEW!***	17.14	15.51	13.55	IXFX48N50Q
	500	60	0.100	IXTX60N50L2-ND ***NEW!***	31.88	25.50	21.04	IXTX60N50L2
	250	90	0.033	IXTX90N25L2-ND ***NEW!***	31.88	25.50	21.04	IXTX90N25L2
	300	90	0.033	IXFX90N30-ND	19.98	15.98	13.26	IXFX90N30
	300	120	0.024	IXFX120N30T-ND ***NEW!***	11.45	9.16	7.56	IXFX120N30T
	250	140	0.017	IXFX140N25T-ND ***NEW!***	11.45	9.16	7.56	IXFX140N25T
	300	160	0.019	IXFX160N30T-ND ***NEW!***	15.20	12.16	10.04	IXFX160N30T
	200	170	0.011	IXFX170N20T-ND ***NEW!***	11.45	9.16	7.56	IXFX170N20T
	250	180	0.0129	IXFX180N25T-ND ***NEW!***	15.20	12.16	10.04	IXFX180N25T
	170	210	0.0075	IXFX210N17T-ND ***NEW!***	11.45	9.16	7.56	IXFX210N17T
	200	230	0.0075	IXFX230N20T-ND ***NEW!***	9.30	7.44	6.14	IXFX230N20T
	170	260	0.0065	IXFX260N17T-ND ***NEW!***	15.20	12.16	10.04	IXFX260N17T
14	100	90	0.0063	IXTF200N10T-ND	10.14	8.45	6.76	IXTF200N10T
	85	130	0.0053	IXTF230N085T-ND	10.14	8.45	6.76	IXTF230N085T
	55	140	0.0044	IXTL2X240N055T-ND	12.24	10.20	8.16	IXTL2X240N055T
	75	140	0.0044	IXTF250N075T-ND	10.14	8.45	6.76	IXTF250N075T
	55	160	0.0040	IXTF280N055T-ND	8.45	6.76	5.58	IXTF280N055T
16	600	1.4	9.0	IXTY1R4N60P-ND	.85	.68	.56	IXTY1R4N60P
	500	1.6	6.5	IXTY1R6N50P-ND	.85	.68	.56	IXTY1R6N50P
	600	2	5.1	IXTY2N60P-ND	.88	.70	.58	IXTY2N60P
	60	12	0.085	IXTY12N06T-ND	.95	.76	.63	IXTY12N06T
16	100	44	0.030	IXTY44N10T-ND	1.03	.82	.68	IXTY44N10T
	85	50	0.023	IXTY50N085T-ND	1.03	.82	.68	IXTY50N085T
	75	55	0.0195	IXTY55N075T-ND	1.03	.82	.68	IXTY55N075T
	55	64	0.013	IXTY64N055T-ND	1.03	.82	.68	IXTY64N055T
19	500	32	0.16	IXFT32N50Q-ND	16.45	13.16	10.92	IXFT32N50Q
	200	58	0.040	IXFT58N20Q-ND	14.58	11.66	9.67	IXFT58N20Q
20	1000	4	3.0	IXFA4N100Q-ND ***NEW!***	5.19	4.70	4.10	IXFA4N100Q
21	600	1.4	9.0	IXTP1R4N60P-ND	.88	.70	.58	IXTP1R4N60P
	500	1.6	6.5	IXTP1R6N50P-ND	.88	.70	.58	IXTP1R6N50P
	1200	3	4.5	IXFP3N120-ND ***NEW!***	4.89	4.43	3.87	IXFP3N120
	500	3.6	2.0	IXTP3N50P-ND	.93	.74	.61	IXTP3N50P
	1000	4	3.0	IXFP4N100Q-ND ***NEW!***	4.47	4.05	3.60	IXFP4N100Q
	500	5	4.8	IXTP5N50P-ND	1.28	1.02	.85	IXTP5N50P
	600	5	1.7	IXTP5N60P-ND	1.13	.90	.75	IXTP5N60P
	60	12	0.085	IXTU12N06T-ND	1.00	.80	.66	IXTU12N06T
	500	15	0.480	IXTP15N50L2-ND ***NEW!***	6.83	5.46	4.51	IXTP15N50L2
	500	16	0.4	IXTP16N50P-ND	2.90	2.32	1.93	IXTP16N50P
	200	32	0.072	IXTP32N20T-ND	1.88	1.50	1.25	IXTP32N20T
	100	44	0.030	IXTP44N10T-ND	1.08	.86	.71	IXTP44N10T
	200	48	0.050	IXTP48N20T-ND	2.53	2.02	1.68	IXTP48N20T
	85	50	0.023	IXTP50N085T-ND	1.08	.86	.71	IXTP50N085T
	75	55	0.0195	IXTP55N075T-ND	1.08	.86	.71	IXTP55N075T
	100	60	0.018	IXTP60N10T-ND	1.53	1.22	1.01	IXTP60N10T
	55	64	0.013	IXTP64N055T-ND	1.08	.86	.71	IXTP64N055T
	75	70	0.012	IXTP70N075T2-ND	1.50	1.20	1.00	IXTP70N075T2
	85	70	0.0135	IXTP70N085T-ND	1.53	1.22	1.01	IXTP70N085T
	100	80	0.014	IXTP80N10T-ND	2.08	1.66	1.39	IXTP80N10T
	85	88	0.011	IXTP88N085T-ND	1.73	1.38	1.15	IXTP88N085T
	55	90	0.0084	IXTP90N055T2-ND	1.50	1.20	1.00	IXTP90N055T2
	75	90	0.010	IXTP90N075T2-ND	1.95	1.56	1.30	IXTP90N075T2
	40	100	0.007	IXTP100N04T2-ND	1.50	1.20	1.00	IXTP100N04T2
	150	102	0.018	IXTP102N15T-ND	3.75	3.00	2.49	IXTP102N15T
	55	110	0.0066	IXTP110N055T2-ND	1.65	1.32	1.10	IXTP110N055T2
	40	120	0.0061	IXTP120N04T2-ND	1.65	1.32	1.10	IXTP120N04T2
	100	130	0.0091	IXTP130N10T-ND	2.30	1.84	1.53	IXTP130N10T
	85	152	0.007	IXTP152N085T-ND	2.30	1.84	1.53	IXTP152N085T
	100	160	0.0070	IXTP160N10T-ND	3.05	2.44	2.03	IXTP160N10T
	75	170	0.0054	IXTP170N075T2-ND	2.45	1.96	1.63	IXTP170N075T2
	85	180	0.0055	IXTP180N085T-ND	3.05	2.44	2.03	IXTP180N085T
	100	180	0.0064	IXTP180N10T-ND	3.43	2.74	2.27	IXTP180N10T
	55	200	0.0042	IXTP200N055T2-ND	2.45	1.96	1.63	IXTP200N055T2
	75	200	0.0050	IXTP200N075T-ND	3.05	2.44	2.03	IXTP200N075T
	85	200	0.0050	IXTP200N085T-ND	3.43	2.74	2.27	IXTP200N085T
	40	220	0.0035	IXTP220N04T2-ND	2.45	1.96	1.63	IXTP220N04T2
	55	220	0.0040	IXTP220N055T-ND	3.05	2.44	2.03	IXTP220N055T
	75	220	0.0045	IXTP220N075T-ND	3.43	2.74	2.27	IXTP220N075T
	55	240	0.0036	IXTP240N055T-ND	4.23	3.38	2.81	IXTP240N055T
22	600	30	0.240	IXTQ30N60L2-ND ***NEW!***	14.75	11.80	9.74	IXTQ30N60L2
	500	36	0.0170	IXTQ36N50P-ND ***NEW!***	5.80	5.25	4.58	IXTQ36N50P
	500	40	0.170	IXTQ40N50L2-ND ***NEW!***	14.75	11.80	9.74	IXTQ40N50L2
	150	96	0.024	IXTQ96N15P-ND ***NEW!***	3.95	3.58	3.12	IXTQ96N15P
	100	130	0.0091	IXTQ130N10T-ND	2.70	2.16	1.79	IXTQ130N10T
	85	152	0.0070	IXTQ152N085T-ND	2.70	2.16	1.79	IXTQ152N085T
	100	160	0.0070	IXTQ160N10T-ND	3.43	2.74	2.27	IXTQ160N10T
	85	180	0.0055	IXTQ180N085T-ND	3.43	2.74	2.27	IXTQ180N085T
	100	180	0.0064	IXTQ180N10T-ND	3.88	3.10	2.57	IXTQ180N10T
	75	200	0.0050	IXTQ200N075T-ND	3.43	2.74	2.27	IXTQ200N075T
	85	200	0.0050	IXTQ200N085T-ND	3.88	3.10	2.57	IXTQ200N085T
	100	200	0.0055	IXTQ200N10T-ND	5.03	4.02	3.34	IXTQ200N10T
	55	220	0.0040	IXTQ220N055T-ND	3.43	2.74	2.27	IXTQ220N055T
	75	220	0.0045	IXTQ220N075T-ND	3.88	3.10	2.57	IXTQ220N075T
	85	230	0.0044	IXTQ230N085T-ND	5.03	4.02	3.34	IXTQ230N085T
	75	250	0.0040	IXTQ250N075T-ND	5.03	4.02	3.34	IXTQ250N075T
	55	280	0.0032	IXTQ280N055T-ND	5.03	4.02	3.34	IXTQ280N055T
23	1000	38	0.250	IXFB38N100Q2-ND ***NEW!***	45.17	40.87	32.51	IXFB38N100Q2
	800	50	0.15	IXFB50N80Q2-ND ***NEW!***	38.87	35.17	27.58	IXFB50N80Q2
	500	60	0.100	IXTK60N50L2-ND ***NEW!***	32.13	25.70	21.21	IXTK60N50L2
	600	70	0.088	IXFB70N60Q2-ND ***NEW!***	35.41	32.04	25.12	IXFB70N60Q2
	500	80	0.060	IXFB80N50Q2-ND ***NEW!***	30.98	28.03	21.98	IXFB80N50Q2
	250	90	0.033	IXTK90N25L2-ND ***NEW!***	32.13	25.70	21.21	IXTK90N25L2
	250	120	0.024	IXTK120N25P-ND	14.64	12.20	9.76	IXTK120N25P
	300	120	0.024	IXFK120N30T-ND ***NEW!***	11.60	9.28	7.66	IXFK120N30T
	300	160	0.019	IXFK160N30T-ND ***NEW!***	15.35	12.28	10.14	IXFK160N30T
	200	170	0.011	IXFK170N20T-ND ***NEW!***	11.60	9.28	7.66	IXFK170N20T
	250	180	0.0129	IXFK180N25T-ND ***NEW!***	15.35	12.28	10.14	IXFK180N25T
	170	210	0.0075	IXFK210N17T-ND ***NEW!***	12.05	9.64	7.96	IXFK210N17T
	200	230	0.0075	IXFK230N20T-ND ***NEW!***	9.50	7.60	6.27	IXFK230N20T
	170	260	0.0065	IXFK260N17T-ND ***NEW!***	9.50	7.60	6.27	IXFK260N17T
30	500	30	0.2	IXTT30N50P-ND	7.98	6.38	5.30	IXTT30N50P
	600	30	0.240	IXTT30N60L2-ND ***NEW!***	16.38	13.10	10.81	IXTT30N60L2
	500	36	0.17	IXTT36N50P-ND	9.10	7.28	6.04	IXTT36N50P
	500	40	0.170	IXTT40N50L2-ND ***NEW!***	16.38	13.10	10.81	IXTT40N50L2
31	600	7	1.1	IXTA7N60P-ND	1.83	1.46	1.21	IXTA7N60P
	500	8	0.8	IXTA8N50P-ND	1.95	1.56	1.29	IXTA8N50P
	500	12	0.5	IXTA12N50P-ND	2.45	1.96	1.63	IXTA12N50P
	200	32	0.072	IXTA32N20T-ND	1.98	1.58	1.31	IXTA32N20T
	200	48	0.050	IXTA48N20T-ND	2.63	2.10	1.74	IXTA48N20T
	100	60	0.018	IXTA60N10T-ND	1.55	1.24	1.03	IXTA60N10T
	75	70	0.012	IXTA70N075T2-ND	1.65	1.32	1.10	IXTA70N075T2
	85	70	0.0135	IXTA70N085T-ND	1.55	1.24	1.03	IXTA70N085T

† Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
31	100	80	0.014	IXTA80N10T-ND	2.33	1.86	1.55	IXTA80N10T
	85	88	0.011	IXTA88N085T-ND	1.83	1.46	1.21	IXTA88N085T
	55	90	0.0084	IXTA90N055T2-ND	1.65	1.32	1.10	IXTA90N055T2
	75	90	0.010	IXTA90N075T2-ND	2.08	1.66	1.39	IXTA90N075T2
	40	100	0.007	IXTA100N04T2-ND	1.65	1.32	1.10	IXTA100N04T2
	150	102	0.018	IXTA102N15T-ND	3.90	3.12	2.59	IXTA102N15T
	55	110	0.0066	IXTA110N055T2-ND	1.80	1.44	1.20	IXTA110N055T2
	40	120	0.0061	IXTA120N04T2-ND	1.80	1.44	1.20	IXTA120N04T2
	100	130	0.0091	IXTA130N10T-ND	2.40	1.92	1.59	IXTA130N10T
	85	152	0.007	IXTA152N085T-ND	2.40	1.92	1.59	IXTA152N085T
	100	160	0.0070	IXTA160N10T-ND	3.13	2.50	2.08	IXTA160N10T
	75	170	0.0054	IXTA170N075T2-ND	2.55	2.04	1.69	IXTA170N075T2
	85	180	0.0055	IXTA180N085T-ND	3.13	2.50	2.08	IXTA180N085T
	100	180	0.0064	IXTA180N10T-ND	3.58	2.86	2.37	IXTA180N10T
	55	200	0.0042	IXTA200N055T2-ND	2.55	2.04	1.69	IXTA200N055T2
	75	200	0.0050	IXTA200N075T-ND	3.13	2.50	2.08	IXTA200N075T
	85	200	0.0050	IXTA200N085T-ND	3.58	2.86	2.37	IXTA200N085T
	40	220	0.0035	IXTA220N04T2-ND	2.55	2.04	1.69	IXTA220N04T2
	55	220	0.0040	IXTA220N055T-ND	3.13	2.50	2.08	IXTA220N055T
	75	220	0.0045	IXTA220N075T-ND	3.58	2.86	2.37	IXTA220N075T
	55	240	0.0036	IXTA240N055T-ND	3.58	2.86	2.37	IXTA240N055T
32	250	110	0.024	IXTV110N25TS-ND	7.70	6.16	5.11	IXTV110N25TS
	100	200	0.0055	IXTV200N10TS-ND	6.20	4.96	4.12	IXTV200N10TS
	85	230	0.0044	IXTV230N085TS-ND	6.20	4.96	4.12	IXTV230N085TS
	75	250	0.0040	IXTV250N075TS-ND	6.20	4.96	4.12	IXTV250N075TS
	55	280	0.0032	IXTV280N055TS-ND	6.20	4.96	4.12	IXTV280N055TS
33	600	26	0.27	IXTV26N60P-ND	7.98	6.38	5.30	IXTV26N60P
	600	30	0.24	IXTV30N60P-ND	9.10	7.28	6.04	IXTV30N60P
	100	83	0.0075	IXTC160N10T-ND	5.10	4.08	3.39	IXTC160N10T
	100	90	0.0070	IXTC180N10T-ND	5.55	4.44	3.69	IXTC180N10T
	100	101	0.0063	IXTC200N10T-ND	6.90	5.52	4.58	IXTC200N10T
	100	200	0.0055	IXTV200N10T-ND	6.20	4.96	4.12	IXTV200N10T
	75	110	0.0055	IXTC200N075T-ND	5.10	4.08	3.39	IXTC200N075T
	85	110	0.0055	IXTC200N085T-ND	5.55	4.44	3.69	IXTC200N085T
	85	110	0.0061	IXTC180N085T-ND	5.10	4.08	3.39	IXTC180N085T
	75	115	0.0050	IXTC220N075T-ND	5.55	4.44	3.69	IXTC220N075T
	85	120	0.0053	IXTC230N085T-ND	6.90	5.52	4.58	IXTC230N085T
	85	230	0.0044	IXTV230N085T-ND	6.20	4.96	4.12	IXTV230N085T
	75	128	0.0044	IXTC250N075T-ND	6.90	5.52	4.58	IXTC250N075T
	75	250	0.0040	IXTV250N075T-ND	6.20	4.96	4.12	IXTV250N075T
	55	130	0.0044	IXTC220N055T-ND	5.10	4.08	3.39	IXTC220N055T
	55	132	0.0040	IXTC240N055T-ND	5.55	4.44	3.69	IXTC240N055T
	55	145	0.0036	IXTC280N055T-ND	6.90	5.52	4.58	IXTC280N055T
	55	280	0.0032	IXTV280N055T-ND	6.20	4.96	4.12	IXTV280N055T
34	100	130	0.0091	IXTA130N10T7-ND	2.55	2.04	1.69	IXTA130N10T7
	85	152	0.007	IXTA152N085T7-ND	2.55	2.04	1.69	IXTA152N085T7
	100	160	0.0070	IXTA160N10T7-ND	3.28	2.62	2.17	IXTA160N10T7
	85	180	0.0055	IXTA180N085T7-ND	3.28	2.62	2.17	IXTA180N085T7
	100	180	0.0064	IXTA180N10T7-ND	3.68	2.94	2.44	IXTA180N10T7
	75	200	0.0050	IXTA200N075T7-ND	3.28	2.62	2.17	IXTA200N075T7
	85	200	0.0050	IXTA200N085T7-ND	3.68	2.94	2.44	IXTA200N085T7
	40	220	0.0035	IXTA220N04T2-7-ND	2.60	2.08	1.73	IXTA220N04T2-7
	55	220	0.0040	IXTA220N055T7-ND	3.28	2.62	2.17	IXTA220N055T7
	75	220	0.0045	IXTA220N075T7-ND	3.68	2.94	2.44	IXTA220N075T7
	55	240	0.0036	IXTA240N055T7-ND	3.68	2.94	2.44	IXTA240N055T7
NEW! MOSFETs — N-Channel Enhancement Mode Avalanche Rated Fast Instrinsic Diode — RoHS Compliant NEW!								
7	900	12	0.900	IXFH12N90P-ND	6.83	5.46	4.51	IXFH12N90P
	900	18	0.600	IXFH18N90P-ND	9.38	7.50	6.19	IXFH18N90P
	900	24	0.420	IXFH24N90P-ND	12.20	9.76	8.06	IXFH24N90P
	500	42	0.145	IXFH42N50P2-ND	6.70	5.36	—	IXFH42N50P2
	500	52	0.120	IXFH52N50P2-ND	8.20	6.56	—	IXFH52N50P2
	500	74	0.077	IXFX74N50P2-ND	11.65	9.32	—	IXFX74N50P2
	500	16	0.330	IXTH450P2-ND	3.85	3.08	—	IXTH450P2-ND
8	300	130	0.019	IXFN160N30T-ND	27.20	21.76	19.04	IXFN160N30T
11	900	40	0.210	IXFX40N90P-ND	22.88	18.30	15.10	IXFX40N90P
	600	44	0.130	IXFX44N60-ND	22.03	17.62	15.38	IXFX44N60
	800	44	0.190	IXFX44N80P-ND	14.64	13.25	11.57	IXFX44N80P
	150	240	0.0052	IXFX240N15T2-ND	17.58	14.06	—	IXFX240N15T2
	170	320	0.0052	IXFX320N17T2-ND	26.43	21.14	—	IXFX320N17T2
	150	360	0.004	IXFX360N15T2-ND	26.43	21.14	—	IXFX360N15T2
	500	94	0.055	IXFX94N50P2-ND	16.10	12.88	—	IXFX94N50P2
17	500	16	0.330	IXTP450P2-ND	2.90	2.32	—	IXTP450P2
19	500	42	0.145	IXFT42N50P2-ND	7.55	6.04	—	IXFT42N50P2
	500	52	0.120	IXFT52N50P2-ND	9.10	7.28	—	IXFT52N50P2
22	500	16	0.330	IXTQ450P2-ND	3.35	2.68	—	IXTQ450P2
	500	24	0.270	IXTQ460P2-ND	4.10	3.28	—	IXTQ560P2
	500	42	0.145	IXTQ470P2-ND	6.00	4.80	—	IXTQ470P2
	500	52	0.120	IXTQ480P2-ND	7.45	5.96	—	IXTQ480P2
23	900	40	0.210	IXFK40N90P-ND	24.75	19.80	16.34	IXFK40N90P
	800	44	0.190	IXFK44N80P-ND	14.68	13.29	10.42	IXFK44N80P
	900	52	0.160	IXFB52N90P-ND	31.38	25.10	20.71	IXFB52N90P
	800	60	0.140	IXFB60N80P-ND	20.54	18.59	14.57	IXFB60N80P
	500	74	0.077	IXFK74N50P2-ND	11.80	9.44	—	IXFK74N50P2
	500	94	0.055	IXFK94N50P2-ND	16.25	13.00	—	IXFK94N50P2
	500	100	0.049	IXFB100N50P-ND	21.92	19.84	15.56	IXFB100N50P
	500	120	0.043	IXFB120N50P2-ND	23.65	18.92	—	IXFB120N50P2
	200	140	0.018	IXFK140N20P-ND	10.52	9.52	7.46	IXFK140N20P
	250	140	0.017	IXFK140N25T-ND	11.60	9.28	8.12	IXFK140N25T
	300	140	0.024	IXFK140N30P-ND	15.37	13.91	9.74	IXFK140N30P
	100	200	0.0075	IXFK200N10P-ND	10.52	9.52	7.46	IXFK200N10P
	150	240	0.0052	IXFK240N15T2-ND	17.83	14.26	—	IXFK240N15T2
	170	320	0.0052	IXFK320N17T2-ND	26.58	21.26	—	IXFK320N17T2
	150	360	0.004	IXFK360N15T2-ND	26.58	21.26	—	IXFK360N15T2
30	900	18	0.600	IXFT18N90P-ND	10.45	8.36	—	IXFT18N90P
	900	24	0.420	IXFT24N90P-ND	13.33	10.66	8.80	IXFT24N90P
32	900	12	0.900	IXFV12N90PS-ND	7.33	5.86	—	IXFV12N90PS
	900	18	0.600	IXFV18N90PS-ND	10.20	8.16	—	IXFV18N90PS

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
33	900	12	0.900	IXFV12N90P-ND	7.33	5.86	—	IXFV12N90P
	900	18	0.600	IXFV18N90P-ND	10.20	8.16	—	IXFV18N90P
NEW! MOSFETs — N-Channel, Depletion Mode, High Voltage — RoHS Compliant NEW!								
7	1000	6	2.2	IXTH6N100D2-ND	5.29	4.79	4.41	IXTH6N100D2
	500	6	0.5	IXTH6N50D2-ND	5.29	4.79	4.41	IXTH6N50D2
16	500	0.2	30	IXTY02N50D-ND	.90	.82	.71	IXTY02N50D
	1000	0.8	21	IXTY08N100D2-ND	.95	.76	.67	IXTY08N100D2
	500	0.8	4.6	IXTY08N50D2-ND	1.13	1.03	.95	IXTY08N50D2
16	1000	1.6	10	IXTY1R6N100D2-ND	1.55	1.41	1.30	IXTY1R6N100D2
	500	1.6	2.3	IXTY1R6N50D2-ND	1.55	1.41	1.30	IXTY1R6N50D2
17	500	0.8	4.6	IXTP08N50D2-ND	1.13	1.03	.95	IXTP08N50D2
	1000	0.8	21	IXTP08N100D2-ND	1.13	1.03	.95	IXTP08N100D2
	500	1.6	2.3	IXTP1R6N50D2-ND	1.55	1.41	1.30	IXTP1R6N50D2
	1000	1.6	10	IXTP1R6N100D2-ND	1.55	1.41	1.30	IXTP1R6N100D2
	500	3	1.5	IXTP3N50D2-ND	1.97	1.79	1.65	IXTP3N50D2
	1000	3	5.5	IXTP3N100D2-ND	1.97	1.79	1.65	IXTP3N100D2
	500	6	0.5	IXTP6N50D2-ND	4.49	4.07	3.75	IXTP6N50D2
	1000	6	2.2	IXTP6N100D2-ND	4.49	4.07	3.75	IXTP6N100D2
20	1000	0.8	21	IXTA08N100D2-ND	1.26	1.14	1.05	IXTA08N100D2
	500	0.8	4.6	IXTA08N50D2-ND	1.26	1.14	1.05	IXTA08N50D2
	1000	1.6	10	IXTA1R6N100D2-ND	1.64	1.49	1.37	IXTA1R6N100D2
	500	1.6	2.3	IXTA1R6N50D2-ND	1.64	1.49	1.37	IXTA1R6N50D2
	1000	3	5.5	IXTA3N100D2-ND	2.06	1.87	1.72	IXTA3N100D2
	500	3	1.5	IXTA3N50D2-ND	2.06	1.87	1.72	IXTA3N50D2
	1000	6	2.2	IXTA6N100D2-ND	4.58	4.15	3.82	IXTA6N100D2
	500	6	0.5	IXTA6N50D2-ND	4.58	4.15	3.82	IXTA6N50D2
MOSFETs — P-Channel Enhancement Mode Avalanche Rated								
7	500	10	0.900	IXTH10P50-ND	13.33	10.66	8.85	IXTH10P50
MOSFETs — P-Channel Enhancement Mode Avalanche Rated — RoHS Compliant								
7	500	7	1.5	IXTH7P50-ND	10.90	8.72	7.24	IXTH7P50
	500	8	1.2	IXTH8P50-ND	6.43	5.14	4.27	IXTH8P50
	500	10	0.001	IXTH10P50P-ND	5.70	4.56	3.78	IXTH10P50P
	500	11	0.75	IXTH11P50-ND	8.58	6.86	5.69	IXTH11P50
	600	16	0.720	IXTH16P60P-ND	8.88	7.10	5.89	IXTH16P60P
	500	20	0.450	IXTH20P50P-ND	8.88	7.10	5.89	IXTH20P50P
	200	26	0.170	IXTH26P20P-ND	5.70	4.56	3.78	IXTH26P20P
	600	32	0.350	IXTX32P60P-ND	17.58	14.06	11.67	IXTX32P60P
	500	40	0.230	IXTX40P50P-ND	17.58	14.06	11.67	IXTX40P50P
	150	44	0.065	IXTH44P15T-ND	5.45	4.36	3.62	IXTH44P15T
	200	48	0.085	IXTH48P20P-ND	8.88	7.10	5.89	IXTH48P20P
	100	50	0.055	IXTH50P10-ND ***NEW!***	6.62	5.99	5.23	IXTH50P10
	100	52	0.050	IXTH52P10P-ND	5.70	4.56	3.78	IXTH52P10P
	100	76	0.024	IXTH76P10T-ND	5.45	4.36	3.62	IXTH76P10T
	100	90	0.025	IXTH90P10P-ND	8.88	7.10	5.89	IXTH90P10P
	200	90	0.044	IXTX90P20P-ND	17.58	14.06	11.67	IXTX90P20P
	85	96	0.013	IXTH96P085T-ND	5.45	4.36	3.62	IXTH96P085T
	100	170	0.012	IXTX170P10P-ND	17.58	14.06	11.67	IXTX170P10P
8	600	32	0.350	IXTN32P60P-ND	39.00	32.50	26.00	IXTN32P60P
	500	40	0.230	IXTN40P50P-ND	39.00	32.50	26.00	IXTN40P50P
	200	90	0.044	IXTN90P20P-ND	39.00	32.50	26.00	IXTN90P20P
	100	170	0.012	IXTN170P10P-ND	39.00	32.50	26.00	IXTN170P10P
11	600	10	0.790	IXTR16P60P-ND	10.95	8.76	7.27	IXTR16P60P
	500	13	0.490	IXTR20P50P-ND	10.95	8.76	7.27	IXTR20P50P
	600	18	0.385	IXTR32P60P-ND	19.33	15.46	12.83	IXTR32P60P
	150	22	0.120	IXTR36P15P-ND	7.63	6.10	5.06	IXTR36P15P
	500	22	0.260	IXTR40P50P-ND	19.33	15.46	12.83	IXTR40P50P
	200	30	0.093	IXTR48P20P-ND	10.95	8.76	7.27	IXTR48P20P
	200	53	0.048	IXTR90P20P-ND	19.33	15.46	12.83	IXTR90P20P
	100	57	0.027	IXTR90P10P-ND	10.95	8.76	7.27	IXTR90P10P
	100	108	0.013	IXTR170P10P-ND	19.33	15.46	12.83	IXTR170P10P
17	500	10	1.0	IXTP10P50P-ND	4.50	3.60	2.99	IXTP10P50P
	100	18	0.120	IXTP18P10T-ND	1.50	1.20	1.00	IXTP18P10T
	85	24	0.065	IXTP24P085T-ND	1.50	1.20	1.00	IXTP24P085T
	200	26	0.170	IXTP26P20P-ND	4.75	3.80	3.15	IXTP26P20P
	65	28	0.045	IXTP28P065T-ND	1.50	1.20	1.00	IXTP28P065T
	50	32	0.036	IXTP32P05T-ND	1.50	1.20	1.00	IXTP32P05T
	150	36	0.110	IXTP36P15P-ND	4.50	3.60	2.99	IXTP36P15P
	150	44	0.065	IXTP44P15T-ND	4.25	3.40	2.82	IXTP44P15T
	100	52	0.050	IXTP52P10P-ND	4.50	3.60	2.99	IXTP52P10P
	100	76	0.024	IXTP76P10T-ND	4.25	3.40	2.82	IXTP76P10T
	85	96	0.013	IXTP96P085T-ND	4.25	3.40	2.82	IXTP96P085T
19	600	16	0.720	IXTT16P60P-ND	10.00	8.00	6.64	IXTT16P60P
	500	20	0.450	IXTT20P50P-ND	10.00	8.00	6.64	IXTT20P50P
	200	48	0.085	IXTT48P20P-ND	10.00	8.00	6.64	IXTT48P20P
	100	90	0.025	IXTT90P10P-ND	10.00	8.00	6.64	IXTT90P10P
22	500	10	0.001	IXTQ10P50P-ND	5.08	4.06	3.37	IXTQ10P50P
	200	26	0.170	IXTQ26P20P-ND	5.08	4.06	3.37	IXTQ26P20P
	150	36	0.110	IXTQ36P15P-ND	5.08	4.06	3.37	IXTQ36P15P
	150	44	0.065	IXTQ44P15T-ND	4.83	3.86	3.20	IXTQ44P15T
	100	52	0.050	IXTQ52P10P-ND	5.08	4.06	3.37	IXTQ52P10P
23	600	32	0.350	IXTK32P60P-ND	21.30	17.75	14.20	IXTK32P60P
	500	40	0.230	IXTK40P50P-ND	21.30	17.75	14.20	IXTK40P50P
	200	90	0.044	IXTK90P20P-ND	21.30	17.75	14.20	IXTK90P20P
	100	170	0.012	IXTK170P10P-ND	21.30	17.75	14.20	IXTK170P10P
31	500	10	0.001	IXTA10P50P-ND	4.63	3.70	3.07	IXTA10P50P
	100	18	0.120	IXTA18P10T-ND	1.70	1.36	1.13	IXTA18P10T
	85	24	0.065	IXTA24P085T-ND	1.70	1.36	1.13	IXTA24P085T
	200	26	0.170	IXTA26P20P-ND	4.63	3.70	3.07	IXTA26P20P
	65	28	0.045	IXTA28P065T-ND	1.70	1.36	1.13	IXTA28P065T
	50	32	0.036	IXTA32P05T-ND	1.70	1.36	1.13	IXTA32P05T
	150	36	0.110	IXTA36P15P-ND	4.63	3.70	3.07	IXTA36P15P
	150	44	0.065	IXTA44P15T-ND	4.38	3.50	2.91	IXTA44P15T
	100	52	0.050	IXTA52P10P-ND	4.63	3.70	3.07	IXTA52P10P
	100	76	0.024	IXTA76P10T-ND	4.38	3.50	2.91	IXTA76P10T
	85	96	0.013	IXTA96P085T-ND	4.38	3.50	2.91	IXTA96P085T
33	150	22	0.120	IXTC36P15P-ND	6.45	5.16	4.28	IXTC36P15P

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

POWEREX

A pioneer in high power semiconductor applications, *POWEREX* offers a broad line of products, including IGBT, MOSFET Modules, Intelligent Power Modules (IPM), DIP-IPM, Module Accessories (including gate drivers and DC-DC Converters), Discrete Thyristors/SCR (Silicon Controlled Rectifier), Discrete Rectifiers, Thyristor and Diode Modules, Fast Recovery and Three-Phase Diode Modules, Assemblies, IGBT Assemblies, and Custom Modules. *POWEREX* supports many markets, including transportation, AC and DC servo drives, AC and DC motor controls, UPS, alternative energy, medical power supplies, welding, induction heating, electric vehicles, aircraft and white goods.

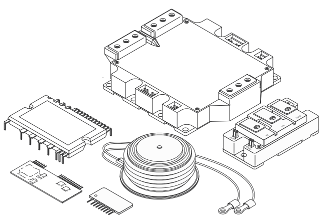

Intelligent Power Modules

V_{CES} (V)	Amps (A)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
600	3	835-1039-ND◆	13.40	11.27	10.36	PS21961-4
	5	835-1040-ND◆	21.45	18.04	16.58	PS21962-4
	10	835-1041-ND◆	21.66	18.42	17.06	PS21963-4
	15	835-1042-ND◆	29.24	24.86	23.03	PS21964-4
	20	835-1043-ND◆	35.78	30.42	28.18	PS21965-4
	20	835-1114-ND ***NEW!***	74.66	66.75	63.35	PM20CSJ060
	20	835-1037-ND◆	25.90	22.02	20.40	PS21765
	30	835-1116-ND ***NEW!***	89.06	79.32	75.15	PM30CSJ060
	30	835-1038-ND◆	33.68	28.63	26.53	PS21767
	30	835-1044-ND◆	37.00	31.45	29.14	PS21997-4
	50	835-1045-ND◆	55.06	48.59	46.16	PS21A79
	75	835-1046-ND◆	81.23	72.62	68.93	PS21A7A
1200	5	835-1047-ND◆	41.00	35.46	33.24	PS22A72
	10	835-1048-ND◆	47.93	41.46	38.87	PS22A73
	15	835-1049-ND◆	54.00	46.71	43.79	PS22A74
	25	835-1050-ND◆	59.43	52.44	49.82	PS22A76
	35	835-1051-ND◆	73.13	65.38	62.05	PS22A78-E
	300	835-1115-ND ***NEW!***	400.32	378.08	370.67	PM300DSA120

◆ ***RoHS Compliant***

Diodes

V_{CES} (V)	Amps (A)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
600	50	835-1100-ND ***NEW!***	27.50	23.38	21.66	CS240650
	100	835-1099-ND ***NEW!***	33.50	28.48	26.39	CS240610
800	100	835-1108-ND◆ ***NEW!***	70.13	62.69	59.50	ME500810
	160	835-1073-ND◆ ***NEW!***	70.46	62.99	59.78	CD610816B
1200	30	835-1112-ND◆ ***NEW!***	38.98	33.14	30.70	ME701203
	50	835-1102-ND ***NEW!***	29.82	25.35	23.49	CS241250
	100	835-1070-ND◆ ***NEW!***	37.22	32.20	30.18	CD411299B
	100	835-1101-ND ***NEW!***	37.60	31.96	29.61	CS241210
	100	835-1109-ND◆ ***NEW!***	85.30	75.97	71.97	ME501210
1600	100	835-1076-ND◆ ***NEW!***	67.93	59.94	56.95	CDD11610
	100	835-1110-ND◆ ***NEW!***	108.29	96.45	91.37	ME501610
	150	835-1111-ND◆ ***NEW!***	130.91	118.03	114.17	ME601615
	160	835-1074-ND◆ ***NEW!***	78.39	70.08	66.52	CD611616B
	260	835-1033-ND◆	129.26	116.55	112.74	ND411626
	400	835-1052-ND◆	70.36	62.90	59.70	R6221640ESOO
	600	835-1030-ND◆	194.52	178.42	174.40	LD411660
	800	835-1053-ND◆	104.83	93.37	88.46	R7221608CSOO
	1100	835-1035-ND◆	496.02	468.47	459.28	PD411611
1800	600	835-1104-ND◆ ***NEW!***	145.00	130.74	126.46	LS411860

◆ ***RoHS Compliant***

SCR

V_{CES} (V)	Amps (A)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
800	500	835-1103-ND ***NEW!***	198.78	182.33	178.22	LD430850
1200	90	835-1071-ND ***NEW!***	38.94	33.68	31.58	CD431290B
	180	835-1117-ND ***NEW!***	86.53	77.07	73.01	T600121804BT
1600	90	835-1072-ND ***NEW!***	41.13	35.57	33.35	CD431690B
	150	835-1075-ND ***NEW!***	66.63	59.57	56.54	CD631615B
	250	835-1034-ND	148.92	134.27	129.88	ND431625
	300	835-1054-ND	69.50	62.13	58.97	T620163004DN
	500	835-1031-ND	203.06	186.26	182.06	LD431650
	550	835-1055-ND	99.84	88.92	84.24	T720165504DN
	700	835-1036-ND	504.40	476.38	467.04	PD431607
	750	835-1056-ND	96.51	85.96	81.44	T7H8167504DN
	950	835-1057-ND	123.53	111.38	107.73	T820169004DH
	1200	835-1058-ND	150.80	138.32	135.20	T9G0161203DH
	2000	835-1059-ND	147.93	133.38	129.01	T9S0162003DH
1800	250	835-1113-ND ***NEW!***	148.76	136.45	133.37	ND431825

Thyristors

V_{CES} (V)	Amps (A)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
1200	250	835-1069-ND ***NEW!***	68.64	61.36	58.24	C380PB
2000	1570	835-1001-ND	271.44	248.98	243.36	C712L
	2100	835-1002-ND	445.50	420.75	412.50	C770L

IGBT Modules

V_{CES} (V)	Amps (A)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
18	5	835-1065-ND◆	14.06	11.83	10.87	VLA503-01
600	50	835-1095-ND ***NEW!***	57.38	50.63	48.10	CM50DY-12H
	100	835-1077-ND ***NEW!***	74.27	66.39	63.02	CM100DY-12H
	150	835-1079-ND ***NEW!***	107.98	96.18	91.12	CM150DY-12H
	150	835-1009-ND◆	72.48	64.80	61.51	CM150DY-12NF
	200	835-1081-ND◆ ***NEW!***	103.33	92.03	87.19	CM200DU-12F
	200	835-1082-ND◆ ***NEW!***	81.60	72.68	68.85	CM200DU-12NFH
	200	835-1084-ND ***NEW!***	137.27	123.77	119.72	CM200DY-12H
	200	835-1011-ND◆	93.71	83.47	79.07	CM200DY-12NF
	300	835-1088-ND ***NEW!***	195.78	179.58	175.53	CM300DY-12H
	300	835-1014-ND◆	134.00	120.83	116.87	CM300DY-12NF
	400	835-1091-ND◆ ***NEW!***	148.41	133.82	129.44	CM400DU-12NFH
	400	835-1092-ND ***NEW!***	261.01	239.42	234.02	CM400DY-12H
	400	835-1017-ND◆	169.87	155.81	152.30	CM400DY-12NF
	600	835-1023-ND◆	201.33	184.68	180.51	CM600DY-12NF
	600	835-1098-ND◆ ***NEW!***	147.73	133.20	128.84	CM600HU-12F
1200	50	835-1096-ND ***NEW!***	85.52	76.17	72.16	CM50DY-24H
	75	835-1119-ND◆ ***NEW!***	119.77	108.00	104.46	CM75RX-24S
	100	835-1004-ND◆	72.07	64.43	61.16	CM100DU-24NFH
	100	835-1005-ND◆	63.12	55.70	52.92	CM100DY-24A
	100	835-1078-ND ***NEW!***	120.11	108.30	104.76	CM100DY-24H
	100	835-1006-ND◆	82.91	73.85	69.96	CM100DY-24NF
	100	835-1120-ND◆ ***NEW!***	137.23	123.74	119.69	CM100RX-24S
	150	835-1080-ND ***NEW!***	171.32	157.14	153.60	CM150DY-24H
	150	835-1121-ND◆ ***NEW!***	156.90	143.92	140.68	CM150RX-24S
	150	835-1122-ND◆ ***NEW!***	215.48	197.66	193.20	CM150TX-24S
	200	835-1083-ND◆ ***NEW!***	165.66	151.96	148.53	CM200DU-24F
	200	835-1085-ND ***NEW!***	228.38	209.48	204.75	CM200DY-24H
	200	835-1012-ND◆	150.26	137.83	134.72	CM200DY-24NF
	200	835-1010-ND◆	94.24	83.94	79.52	CM200DX-24A
	200	835-1123-ND◆ ***NEW!***	105.52	93.98	89.04	CM200DX-24S
	200	835-1086-ND ***NEW!***	120.11	108.30	104.76	CM200HA-24H
	300	835-1087-ND◆ ***NEW!***	197.06	180.75	176.67	CM300DU-24NFH
	300	835-1015-ND◆	141.02	127.15	122.99	CM300DY-24A
	300	835-1089-ND ***NEW!***	343.29	314.88	307.78	CM300DY-24H
	300	835-1016-ND◆	165.53	151.84	148.41	CM300DY-24NF
	300	835-1124-ND◆ ***NEW!***	123.49	111.35	107.71	CM300DX-24S
	300	835-1090-ND ***NEW!***	171.32	157.14	153.60	CM300HA-24H
	400	835-1018-ND◆	178.79	163.99	160.29	CM400DY-24A
	400	835-1019-ND	119.71	106.62	101.01	CM400HA-24A
	400	835-1093-ND ***NEW!***	228.38	209.48	204.75	CM400HA-24H
	400	835-1094-ND◆ ***NEW!***	165.66	151.96	148.53	CM400HU-24F
	450	835-1125-ND◆ ***NEW!***	170.51	156.40	152.87	CM450DX-24S
	600	835-1022-ND◆	318.77	292.39	285.80	CM600DU-24NF
	600	835-1024-ND◆	266.83	244.75	239.23	CM600DY-24A
	600	835-1025-ND	146.46	132.06	127.74	CM600HA-24A
	600	835-1097-ND ***NEW!***	342.59	314.24	307.16	CM600HA-24H
	900	835-1027-ND	560.09	528.98	518.60	CM900DU-24NF
	1400	835-1007-ND	838.98	806.72	—	CM1400DU-24NF
1700	1000	835-1003-ND	790.70	760.29	—	CM1000DU-34NF

◆ ***RoHS Compliant***

Kits

Description	Digi-Key Part No.	Price Each	Powerex Part No.
Design Kit for IPM Modules	BCIM-KIT-ND ***NEW!***	149.95	Q4487369
Design Kit for NX Series IGBT	835-1066-ND◆	30.80	BG2D
Board Interface for NX Series	835-1067-ND ***NEW!***	116.46	VLA536-01R

◆ ***RoHS Compliant***

DC/DC Converter

V_{IN} (VDC)	V_{OUT} (V @ mA)	Digi-Key Part No.	Price Each			Powerex Part No.
			1	25	100	
140 ~ 380	14 ~ 16 @ 200	835-1105-ND ***NEW!***	7.63	6.26	5.65	M57182N-315
140 ~ 360	15 @ 350, 5 @ 200	835-1032-ND	10.85	8.90	8.03	M57184N-715B
12.0 ~ 18.0	24 @ 100	835-1060-ND	16.24	13.66	12.55	VLA106-15242
21.6 ~ 26.4	15 @ 100	835-1061-ND	17.40	14.64	13.45	VLA106-24151
21.6 ~ 26.4	14.25 ~ 15.75 @ 300	835-1118-ND ***NEW!***	20.72	17.43	16.02	VLA106-24154
21.6 ~ 26.4	24 @ 100	835-1062-ND	16.24	13.66	12.55	VLA106-24242
14.2 ~ 15.8	14.2 ~ 15.8 @ 19	835-1063-ND	43.66	37.76	35.40	VLA500-01
14.2 ~ 15.8	14.2 ~ 15.8 @ 14	835-1064-ND	48.73	42.15	39.51	VLA502-01

NEW! Diacs, Sidacs

Description	Digi-Key Part No.	Price Each	Powerex Part No.
Bilateral Switch, Low Voltage 7 ~ 9V	835-1068-ND	1.02	BS08D-112

NEW! Integrated Circuits

Description	Digi-Key Part No.	Price Each	Powerex Part No.
2A Gate Driver IGBT	835-1106-ND	17.86	M57959L
5A Gate Driver IGBT	835-1107-ND	21.74	M57962L

Diodes

Fig. 1 — DO-15

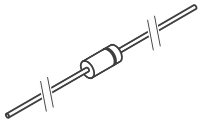

Fig. 2 — DO-41

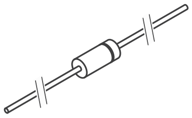

Fig. 3 — DO-201AD

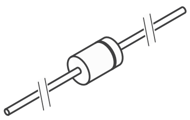

Fig. 4 — DO-214AA, SMT

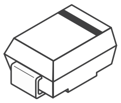

Fig. 5 — SMA

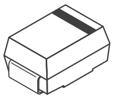

Fig. 6 — DO-214AB, SMT

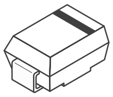

Fig. 7 — SMB

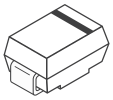

Fig. 8 — DO-214AC, SMAE

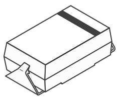

Fig.	DC Reverse Voltage (V)	IF @ 25°C (A)	IFSM @ 25°C (A)	VF @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	MCC Part No.
DO-15											
1	50	2.0	60	1.0	RL201-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL201-TP
	100	2.0	60	1.0	RL202-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL202-TP
	200	2.0	60	1.0	RL203-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL203-TP
	400	2.0	60	1.0	RL204-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL204-TP
	600	2.0	60	1.0	RL205-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL205-TP
	800	2.0	60	1.0	RL206-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL206-TP
	1000	2.0	60	1.0	RL207-TPCT-ND	.30	1.96	8.50	4,000	23.00/M	RL207-TP
DO-41											
2	20	1.0	25	0.45	1N5817-TPCT-ND	.50	3.60	21.20	5,000	80.00/M	1N5817-TP
	30	1.0	25	0.55	1N5818-TPCT-ND	.50	3.60	21.20	5,000	80.00/M	1N5818-TP
	40	1.0	25	0.60	1N5819-TPCT-ND	.50	3.60	21.20	5,000	80.00/M	1N5819-TP
	50	1.0	30	1.1	1N4001-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4001-TP
	100	1.0	30	1.1	1N4002-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4002-TP
	200	1.0	30	1.1	1N4003-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4003-TP
	400	1.0	30	1.1	1N4004-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4004-TP
	600	1.0	30	1.1	1N4005-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4005-TP
	800	1.0	30	1.1	1N4006-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4006-TP
	1000	1.0	30	1.1	1N4007-TPMSCT-ND	.30	1.96	8.50	5,000	23.00/M	1N4007-TP
	400	1.0	30	1.1	1N4004GP-TPMSCT-ND ***NEW!***	.50	3.40	16.00	5,000	40.00/M	1N4004GP-TP
	1000	1.0	30	1.1	1N4007GP-TPMSCT-ND ***NEW!***	.50	3.40	16.00	5,000	40.00/M	1N4007GP-TP
	20	2.0	50	0.55	SR202-TPCT-ND	.43	3.02	19.80	5,000	87.75/M	SR202-TP
	30	2.0	50	0.55	SR203-TPCT-ND	.43	3.02	19.80	5,000	87.75/M	SR203-TP
	60	2.0	50	0.70	SR206-TPCT-ND	.43	3.02	19.80	5,000	87.75/M	SR206-TP
	80	2.0	50	0.85	SR208-TPCT-ND	.43	3.02	19.80	5,000	87.75/M	SR208-TP
	100	2.0	50	0.85	SR2010-TPCT-ND	.43	3.02	19.80	5,000	87.75/M	SR2010-TP
	400	1.0	30	1.3	UF4004-TPMSCT-ND	.55	3.75	17.50	5,000	58.75/M	UF4004-TP
	1000	1.0	30	1.7	UF4007-TPMSCT-ND	.55	3.75	17.50	5,000	58.75/M	UF4007-TP
	400	1.0	30	1.3	UF4004GP-TPMSCT-ND ***NEW!***	.53	3.75	25.00	5,000	85.00/M	UF4004GP-TP
	1000	1.0	30	1.7	UF4007GP-TPMSCT-ND ***NEW!***	.53	3.75	25.00	5,000	85.00/M	UF4007GP-TP
DO-201AD											
3	50	3.0	200	1.0	1N5400-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5400-TP
	100	3.0	200	1.0	1N5401-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5401-TP
	200	3.0	200	1.0	1N5402-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5402-TP
	400	3.0	200	1.0	1N5404-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5404-TP
	600	3.0	200	1.0	1N5406-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5406-TP
	800	3.0	200	1.0	1N5407-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5407-TP
	1000	3.0	200	1.0	1N5408-TPCT-ND	.38	2.70	15.90	1,200	75.00/M	1N5408-TP
	20	3.0	200	1.0	1N5820-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	1N5820-TP
	30	3.0	200	1.0	1N5821-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	1N5821-TP
	40	3.0	200	1.0	1N5822-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	1N5822-TP
	100	6.0	200	1.0	60S1-TPMSCT-ND‡	.90	7.00	60.00	1,200	400.00/M	60S1-TP
	600	6.0	200	1.0	60S6-TPMSCT-ND‡	.90	7.00	60.00	1,200	400.00/M	60S6-TP
	1000	6.0	200	1.0	60S10-TPMSCT-ND‡	.90	7.00	60.00	1,200	400.00/M	60S10-TP
	50	3.0	80	.72	SR305-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	SR305-TP
	60	3.0	80	.72	SR306-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	SR306-TP
	80	3.0	80	.85	SR308-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	SR308-TP
	100	3.0	80	.85	SR3010-TPMSCT-ND	.42	3.18	22.80	1,200	138.00/M	SR3010-TP
DO-214AA											
4	20	1.0	30	0.45	SK12-TPMSCT-ND	.59	4.41	34.65	3,000	194.25/M	SK12-TP
	30	1.0	30	0.55	SK13-TPMSCT-ND	.59	4.41	34.65	3,000	194.25/M	SK13-TP
	40	1.0	30	0.60	SK14-TPMSCT-ND	.59	4.41	34.65	3,000	194.25/M	SK14-TP
	50	1.0	30	0.72	SK15-TPMSCT-ND	.78	5.88	46.20	3,000	259.00/M	SK15-TP
	60	1.0	30	0.72	SK16-TPMSCT-ND	.78	5.88	46.20	3,000	259.00/M	SK16-TP
	80	1.0	30	0.85	SK18-TPMSCT-ND	.78	5.88	46.20	3,000	259.00/M	SK18-TP
	100	1.0	30	0.85	SK110-TPMSCT-ND	.72	5.60	48.00	3,000	288.00/M	SK110-TP
	20	2.0	50	0.55	SK22-TPCT-ND	.73	5.46	42.90	3,000	240.50/M	SK22-TP
	30	2.0	50	0.55	SK23-TPCT-ND	.73	5.46	42.90	3,000	240.50/M	SK23-TP
	40	2.0	50	0.55	SK24-TPCT-ND	.73	5.46	42.90	3,000	240.50/M	SK24-TP
	100	2.0	50	0.85	SK210-TPCT-ND	.73	5.46	42.90	3,000	240.50/M	SK210-TP
	50	2.0	50	1.15	S2A-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2A-TP
	100	2.0	50	1.15	S2B-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2B-TP
	200	2.0	50	1.15	S2D-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2D-TP
	400	2.0	50	1.15	S2G-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2G-TP
	600	2.0	50	1.15	S2J-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2J-TP
	800	2.0	50	1.15	S2K-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2K-TP
	1000	2.0	50	1.15	S2M-TPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	S2M-TP
	20	3.0	100	0.50	SK32B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK32B-TP
	30	3.0	100	0.50	SK33B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK33B-TP
	40	3.0	100	0.50	SK34B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK34B-TP
	60	3.0	100	0.75	SK36B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK36B-TP
	80	3.0	100	0.85	SK38B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK38B-TP
	100	3.0	100	0.85	SK310B-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK310B-TP
SMA											
5	50	1.0	30	1.0	US1A-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1A-TP
	100	1.0	30	1.0	US1B-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1B-TP
	200	1.0	30	1.0	US1D-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1D-TP
	400	1.0	30	1.4	US1G-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1G-TP
	600	1.0	30	1.7	US1J-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1J-TP
	800	1.0	30	1.7	US1K-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1K-TP
	1000	1.0	30	1.7	US1M-TPMSCT-ND	.43	3.02	19.80	5,000	87.75/M	US1M-TP
DO-214AB											
6	50	3.0	100	1.20	S3A-TPMSCT-ND	.56	4.20	33.00	3,000	185.00/M	S3A-TP
	200	3.0	100	1.20	S3D-TPMSCT-ND	.56	4.20	33.00	3,000	185.00/M	S3D-TP
	400	3.0	100	1.20	S3G-TPMSCT-ND	.56	4.20	33.00	3,000	185.00/M	S3G-TP
	400	5.0	100	1.20	S5GL-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	S5GL-TP
	600	5.0	100	1.20	S5JL-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	S5JL-TP
	800	5.0	100	1.20	S5KL-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	S5KL-TP
	1000	5.0	100	1.20	S5ML-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	S5ML-TP
	50	10.0	200	1.20	S10A-TPMSCT-ND	.68	5.25	45.00	1,500	232.50/M	S10A-TP
	200	10.0	200	1.20	S10D-TPMSCT-ND	.68	5.25	45.00	1,500	232.50/M	S10D-TP
	1000	10.0	200	1.20	S10M-TPMSCT-ND	.68	5.25	45.00	1,500	232.50/M	S10M-TP
	20	3.0	100	0.50	SK32-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK32-TP
	30	3.0	100	0.50	SK33-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK33-TP
	40	3.0	100	0.50	SK34-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK34-TP
	50	3.0	100	0.75	SK35-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK35-TP
	60	3.0	100	0.75	SK36-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK36-TP
	80	3.0	100	0.85	SK38-TPMSCT-ND	.81	6.30	54.00	3,000	324.00/M	SK38-TP
	30	10.0	250	0.65	SK103-TPCT-ND	1.00	8.50	72.50	1,500	475.00/M	SK103-TP
	40	10.0	250	0.65	SK104-TPCT-ND	1.00	8.50	72.50	1,500	475.00/M	SK104-TP
	60	10.0	250	0.65	SK106-TPCT-ND	1.00	8.50	72.50	1,500	475.00/M	SK106-TP
	30	10.0	250	0.65	SK153-TPCT-ND	1.40	11.90	101.50	1,500	665.00/M	SK153-TP
	40	10.0	250	0.65	SK154-TPCT-ND	1.40	11.90	101.50	1,500	665.00/M	SK154-TP
	35	10.0	250	0.65	SK1035-TPCT-ND	1.00	8.50	72.50	1,500	475.00/M	SK1035-TP
	45	10.0	250	0.65	SK1045-TPCT-ND	1.00	8.50	72.50	1,500	475.00/M	SK1045-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

‡ Glass Passivated

(Continued)

Diodes *(Cont.)*

Fig. 9 — MELF, SMT

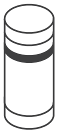

Fig. 10 — MINIMELF, SMT

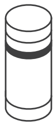

Fig. 11 — R-6

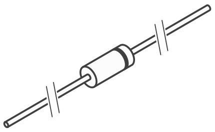

Fig. 12 — SOD-123

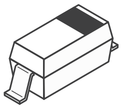

Fig. 13 — SOD-323

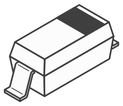

Fig. 14 — SOD-523

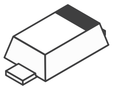

Fig. 15 — SOD-723

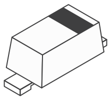

Fig.	DC Reverse Voltage (V)	IF @ 25°C (A)	IFSM @ 25°C (A)	VF @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		MCC Part No.
						1	10	100	Qty.	Pricing	
6	40	10.0	250	0.65	SK1535-TPCT-ND	1.40	11.90	101.50	1,500	665.00/M	SK1535-TP
	45	10.0	250	0.65	SK1545-TPCT-ND	1.40	11.90	101.50	1,500	665.00/M	SK1545-TP
	200	3.0	100	0.86	SK3200B-LTPMSCT-ND ***NEW!***	.79	6.84	54.00	3,000	261.00/M	SK3200B-LTP
	200	3.0	100	0.86	SK3200-TPMSCT-ND ***NEW!***	.79	6.84	54.00	3,000	261.00/M	SK3200-TP
	200	4.0	100	0.86	SK4200L-TPMSCT-ND ***NEW!***	.79	6.84	54.00	3,000	261.00/M	SK4200L-TP
					SMB						
7	50	3.0	100	1.15	S3AB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3AB-TP
	100	3.0	100	1.15	S3BB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3BB-TP
	200	3.0	100	1.15	S3DB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3DB-TP
	400	3.0	100	1.15	S3GB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3GB-TP
	600	3.0	100	1.15	S3JB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3JB-TP
	800	3.0	100	1.15	S3KB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3KB-TP
	1000	3.0	100	1.15	S3MB-TPMSCT-ND	.56	4.24	30.40	3,000	152.00/M	S3MB-TP
					DO-214AC						
8	50	1.0	30	0.975	ES1A-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1A-TP
	100	1.0	30	0.975	ES1B-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1B-TP
	200	1.0	30	0.975	ES1D-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1D-TP
	400	1.0	30	1.35	ES1G-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1G-TP
	600	1.0	30	1.35	ES1J-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1J-TP
	800	1.0	30	1.35	ES1K-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1K-TP
	1000	1.0	30	1.60	ES1M-TPCT-ND	.43	3.02	19.80	3,000	87.75/M	ES1M-TP
	50	1.0	30	0.95	ES1A-LTPMSCT-ND ***NEW!***	.53	3.80	22.80	5,000	68.00/M	ES1A-LTP
	100	1.0	30	0.95	ES1B-LTPMSCT-ND ***NEW!***	.53	3.80	22.80	5,000	68.00/M	ES1B-LTP
	200	1.0	30	0.95	ES1D-LTPMSCT-ND ***NEW!***	.53	3.80	22.80	5,000	68.00/M	ES1D-LTP
	600	1.0	30	0.95	ES1J-LTPMSCT-ND ***NEW!***	.53	3.80	22.80	5,000	68.00/M	ES1J-LTP
	50	2.0	50	0.975	ES2A-TPCT-ND	.49	3.71	26.60	3,000	133.00/M	ES2A-TP
	100	2.0	50	0.975	ES2B-TPCT-ND	.49	3.71	26.60	3,000	133.00/M	ES2B-TP
	150	2.0	50	0.975	ES2C-TPCT-ND	.49	3.71	26.60	3,000	133.00/M	ES2C-TP
	200	2.0	50	0.975	ES2D-TPCT-ND	.49	3.71	26.60	3,000	133.00/M	ES2D-TP
	400	1.0	30	1.30	FS1GE-TPMSCT-ND ***NEW!***	.53	3.80	22.80	6,000	68.00/M	FS1GE-TP
	600	1.0	30	1.30	FS1JE-TPMSCT-ND ***NEW!***	.53	3.80	22.80	6,000	68.00/M	FS1JE-TP
	1000	1.0	30	1.30	FS1ME-TPMSCT-ND ***NEW!***	.53	3.80	22.80	6,000	68.00/M	FS1ME-TP
	50	1.0	30	1.1	GS1A-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	GS1A-TP
	100	1.0	30	1.1	GS1B-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	GS1B-TP
	200	1.0	30	1.1	GS1D-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	GS1D-TP
	400	1.0	30	1.1	GS1G-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	GS1G-TP
	600	1.0	30	1.1	GS1J-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	GS1J-TP
	1000	1.0	30	1.1	GS1M-TPCT-ND	.38	2.70	15.90	3,000	60.00/M	GS1M-TP
	400	1.0	30	1.0	GS1G-LTPMSCT-ND ***NEW!***	.63	4.25	20.00	7,500	50.00/M	GS1G-LTP
	600	1.0	30	1.0	GS1J-LTPMSCT-ND ***NEW!***	.63	4.25	20.00	7,500	50.00/M	GS1J-LTP
	800	1.0	30	1.0	GS1K-LTPMSCT-ND ***NEW!***	.63	4.25	20.00	7,500	50.00/M	GS1K-LTP
	1000	1.0	30	1.0	GS1M-LTPMSCT-ND ***NEW!***	.63	4.25	20.00	7,500	50.00/M	GS1M-LTP
	20	1.0	30	0.45	SS12-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS12-TP
	30	1.0	30	0.55	SS13-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS13-TP
	40	1.0	30	0.60	SS14-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS14-TP
	50	1.0	30	0.70	SS15-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS15-TP
	60	1.0	30	0.70	SS16-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS16-TP
	80	1.0	30	0.85	SS18-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS18-TP
	20	2.0	50	0.55	SS22-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS22-TP
	30	2.0	50	0.55	SS23-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS23-TP
	40	2.0	50	0.55	SS24-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS24-TP
	50	2.0	50	0.70	SS25-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS25-TP
	60	2.0	50	0.70	SS26-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS26-TP
	80	2.0	50	0.85	SS28-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS28-TP
	100	1.0	30	0.85	SS110-TPCT-ND	.42	3.18	22.80	3,000	114.00/M	SS110-TP
	100	2.0	50	0.85	SS210-TPMSCT-ND	.42	3.18	22.80	3,000	102.00/M	SS210-TP
	20	3.0	100	0.50	SK32A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK32A-TP
	30	3.0	100	0.50	SK33A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK33A-TP
	40	3.0	100	0.50	SK34A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK34A-TP
	50	3.0	100	0.75	SK35A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK35A-TP
	60	3.0	100	0.75	SK36A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK36A-TP
	80	3.0	100	0.85	SK38A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK38A-TP
	100	3.0	100	0.85	SK310A-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	SK310A-TP
					NEW! SMAE NEW!						
8	20	1.0	30	0.60	SS12E-TPMSCT-ND	.61	4.35	29.00	6,000	99.00/M	SS12E-TP
	60	1.0	30	0.70	SS16E-TPMSCT-ND	.61	4.35	29.00	6,000	99.00/M	SS16E-TP
					MELF						
9	50	1.0	30	1.1	DL4001-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4001-TP
	100	1.0	30	1.1	DL4002-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4002-TP
	200	1.0	30	1.1	DL4003-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4003-TP
	400	1.0	30	1.1	DL4004-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4004-TP
	600	1.0	30	1.1	DL4005-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4005-TP
	800	1.0	30	1.1	DL4006-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4006-TP
	1000	1.0	30	1.1	DL4007-TPMSCT-ND	.38	2.70	15.90	5,000	60.00/M	DL4007-TP
					MINIMELF						
10	200	0.25	1.0	1.25	BAV102TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	BAV102-TP
	75	0.50	—	1.0	DL4151TPMSCT-ND	.42	2.76	12.00	2,500	32.40/M	DL4151-TP
					R-6						
11	45	10.0	275	0.55	SR1045-TPMSCT-ND ***NEW!***	.79	6.84	54.00	500	180.00	SR1045-TP
	50	6.0	400	0.95	6A05-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A05-TP
	100	6.0	400	0.95	6A1-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A1-TP
	200	6.0	400	0.95	6A2-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A2-TP
	400	6.0	400	0.95	6A4-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A4-TP
	600	6.0	400	0.95	6A6-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A6-TP
	800	6.0	400	0.95	6A8-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A8-TP
	1000	6.0	400	0.95	6A10-TPMSCT-ND	.49	3.71	26.60	500	101.50	6A10-TP
					SOD-123						
12	120	—	1.0	1.25	BAV19WTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV19W-TP
	200	—	1.0	1.25	BAV20WTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV20W-TP
	250	—	1.0	1.25	BAV21WTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV21W-TP
	20	0.50	5.5	0.45	MBR0520TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBR0520-TP
	30	0.50	5.5	0.55	MBR0530TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBR0530-TP
	40	0.50	5.5	0.55	MBR0540TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBR0540-TP
	60	0.50	5.5	0.70	MBR0560TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBR0560-TP
	20	1.0	50	0.32	MBRX120LF-TPMSCT-ND	.48	3.35	22.00	3,000	90.00/M	MBRX120LF-TP
	20	1.0	20	0.50	MBRX120TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBRX120-TP
	30	1.0	20	0.55	MBRX130TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBRX130-TP
	40	1.0	20	0.55	MBRX140TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBRX140-TP
	60	1.0	20	0.72	MBRX160TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MBRX160-TP
	30	0.35	1.5	0.37	SD103BWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD103BW-TP
	20	0.35	1.5	0.37	SD103CWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD103CW-TP
	40	0.35	1.5	0.37	SD103AWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD103AW-TP
	40	0.001	2.0	0.39	SD101CWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101CW-TP
	50	0.001	2.0	0.4	SD101BWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101BW-TP
	60	0.001	2.0	0.41	SD101AWTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101AW-TP
	30	0.20	4.0	0.4	BAT42WTPMSCT-ND	.48	3.35	22.00	3,000	97.50/M	BAT42W-TP
	30	0.20	4.0	0.33	BAT43WTPMSCT-ND	.48	3.35	22.00	3,000	97.50/M	BAT43W-TP
	30	0.15	4.0	0.33	BAT46W-TPMSCT-ND ***NEW!***	.53	3.75	25.00	3,000	90.00/M	BAT46W-TP

† For Tape and Reel part number, change CT-ND to TR-ND.   ‡ Glass Passivated

(Continued)

Digi-Reel® RoHS COMPLIANT

Fig. 16 — SOT-23

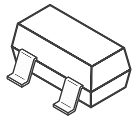

Fig. 17 — SOT-323

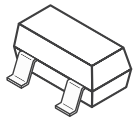

Fig. 18 — SOT-363

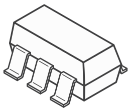

Fig. 19 — SOT-523

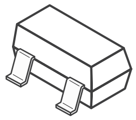

Fig. 20 — SOT-563

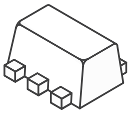

Fig. 21 — Powerlite-123

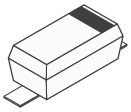

Fig. 22 — TO-220AB ***NEW!***

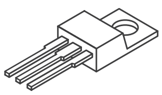

Fig. 23 — D2PAK ***NEW!***

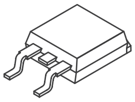

Fig.	DC Reverse Voltage (V)	IF @ 25°C (A)	IFSM @ 25°C (A)	VF @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	MCC Part No.
SOD-323											
13	120	0.25	1.0	1.25	BAV19WSTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV19WS-TP
	200	0.25	1.0	1.25	BAV20WSTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV20WS-TP
	250	0.25	1.0	1.25	BAV21WSTPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	BAV21WS-TP
	30	0.20	4.0	0.40	BAT42WSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	BAT42WS-TP
	30	0.20	4.0	0.33	BAT43WSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	BAT43WS-TP
	30	—	0.20	0.37	BAT54WS-TPCT-ND	.44	3.00	14.00	3,000	47.00/M	BAT54WS-TP
	300	0.5	5	0.55	B0530WS-TPMSCT-ND ***NEW!***	.53	3.80	22.80	3,000	76.00/M	B0530WS-TP
	20	1.0	10	0.75	B5817WS-TPMSCT-ND ***NEW!***	.53	3.80	22.80	3,000	76.00/M	B5817WS-TP
	30	1.0	10	0.875	B5818WS-TPMSCT-ND ***NEW!***	.53	3.80	22.80	3,000	76.00/M	B5818WS-TP
	40	1.0	10	0.90	B5819WS-TPMSCT-ND ***NEW!***	.53	3.80	22.80	3,000	76.00/M	B5819WS-TP
	20	0.35	1.5	0.37	SD103CWSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD103CWS-TP
	30	0.35	1.5	0.37	SD103BWSTPMSCT-ND ***NEW!***	.56	4.00	24.00	3,000	80.00/M	SD103BWS-TP
	40	0.35	1.5	0.37	SD103AWSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD103AWS-TP
	40	0.001	2.0	0.39	SD101CWSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101CWS-TP
	50	0.001	2.0	0.4	SD101BWSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101BWS-TP
	60	0.001	2.0	0.41	SD101AWSTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	SD101AWS-TP
	20	0.500	2.0	0.47	RB551V-30-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB551V-30-TP
	30	0.03	0.20	0.37	RB751V-40-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB751V-40-TP
	40	0.100	1.0	0.45	RB500V-40-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB500V-40-TP
	40	0.100	1.0	0.55	RB501V-40-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB501V-40-TP
SOD-523											
14	30	0.20	0.60	0.32	BAT54WX-TPCT-ND	.44	3.00	14.00	3,000	47.00/M	BAT54WX-TP
	30	0.20	1.0	0.60	RB520S-30-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB520S-30-TP
	30	0.20	1.0	0.50	RB521S-30-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB521S-30-TP
	30	0.03	0.20	0.37	RB751S-40-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB751S-40-TP
	40	0.20	1.0	0.37	RB520S-40-TPMSCT-ND	.48	3.42	20.14	3,000	76.00/M	RB520S-40-TP
SOD-723											
15	30	0.10	0.5	0.45	RB520G-30-TPMSCT-ND	.50	3.60	21.20	8,000	72.00/M	RB520G-30-TP
	30	0.10	1.0	0.35	RB521G-30-TPMSCT-ND	.50	3.60	21.20	8,000	72.00/M	RB521G-30-TP
	30	0.03	.20	0.37	RB751G-40-TPMSCT-ND	.50	3.60	21.20	8,000	72.00/M	RB751G-40-TP
SOT-23											
16	30	0.30	1.0	0.40	BAT54TPMSCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54-TP
	30	0.30	1.0	0.40	BAT54ATPMSCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54A-TP
	30	0.30	1.0	0.40	BAT54CTPMSCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54C-TP
	30	0.30	1.0	0.40	BAT54STPMSCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54S-TP
	40	0.20	—	0.38	BAS40TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS40-TP
	40	0.20	—	0.38	BAS40-04TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS40-04-TP
	40	0.20	—	0.38	BAS40-05TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS40-05-TP
	40	0.20	—	0.38	BAS40-06TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS40-06-TP
	70	0.20	—	0.41	BAS70TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS70-TP
	70	0.20	—	0.41	BAS70-04TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS70-04-TP
	70	0.20	—	0.41	BAS70-05TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS70-05-TP
	70	0.20	—	0.41	BAS70-06TPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	BAS70-06-TP
	75	0.20	1.0	1.0	MMBD4148CA-TPMSCT-ND	.33	2.25	10.50	3,000	35.25/M	MMBD4148CA-TP
	75	0.20	1.0	1.0	MMBD4148CC-TPMSCT-ND	.33	2.25	10.50	3,000	35.25/M	MMBD4148CC-TP
	75	0.20	1.0	1.0	MMBD4148SE-TPMSCT-ND	.33	2.25	10.50	3,000	35.25/M	MMBD4148SE-TP
	75	0.50	4.0	0.855	MMBD4448TPMSCT-ND	.44	3.00	14.00	3,000	47.00/M	MMBD4448-TP
SOT-323											
17	75	0.50	4.0	0.855	MMBD4448WTTPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MMBD4448WT-TP
	40	0.20	—	0.38	BAS40WT-TPCT-ND	.48	3.30	15.40	3,000	51.70/M	BAS40WT-TP
	30	0.20	0.60	0.32	BAT54WT-TPCT-ND	.48	3.30	15.40	3,000	51.70/M	BAT54WT-TP
	30	0.20	0.60	0.32	BAT54AWT-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54AWT-TP
	30	0.20	0.60	0.32	BAT54CWT-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54CWT-TP
	30	0.20	0.60	0.32	BAT54SWT-TPCT-ND	.55	3.75	17.50	3,000	58.75/M	BAT54SWT-TP
SOT-363											
18	30	0.20	0.60	1.0	BAT54TW-TPCT-ND	.48	3.35	22.00	3,000	97.50/M	BAT54TW-TP
	30	0.20	0.60	1.0	BAT54CDW-TPCT-ND	—	5.00	40.00	—	—	BAT54CDW-TP
	30	0.20	0.60	1.0	BAT54SDW-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	BAT54SDW-TP
	30	0.20	0.60	1.0	BAT54BRW-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	BAT54BRW-TP
	40	—	—	1.0	BAS40DW-04-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	BAS40DW-04-TP
	40	—	—	1.0	BAS40DW-06-TPCT-ND	.56	4.20	33.00	3,000	185.00/M	BAS40DW-06-TP
	40	—	—	1.0	BAS40TW-TPCT-ND	.48	3.35	22.00	3,000	97.50/M	BAS40TW-TP
	70	0.07	0.1	1.0	BAS70DW-04-TPCT-ND	.67	5.04	39.60	3,000	222.00/M	BAS70TW-04-TP
	70	0.07	0.1	1.0	BAS70DW-05-TPCT-ND	.67	5.04	39.60	3,000	222.00/M	BAS70TW-05-TP
	70	0.07	0.1	1.0	BAS70BRW-TPCT-ND	.68	5.25	45.00	3,000	270.00/M	BAS70BRW-TP
	75	0.07	0.1	1.0	BAV99BRWMSCT-ND	.56	4.20	33.00	3,000	185.00/M	BAV99BRW
	75	0.25	4.0	0.855	MMBD4448DWTPMSCT-ND	.44	3.15	18.55	3,000	70.00/M	MMBD4448DW-TP
SOT-523											
19	70	0.07	0.10	0.41	BAS70T-TPCT-ND	.38	2.70	15.90	3,000	60.00/M	BAS70T-TP
	30	0.20	0.60	0.32	BAT54T-TPCT-ND	.38	2.70	15.90	3,000	60.00/M	BAT54T-TP
	30	0.20	0.60	0.32	BAT54AT-TPCT-ND	.50	3.60	21.20	3,000	80.00/M	BAT54AT-TP
	30	0.20	0.60	0.32	BAT54CT-TPCT-ND	.50	3.60	21.20	3,000	80.00/M	BAT54CT-TP
	30	0.20	0.60	0.32	BAT54ST-TPCT-ND	.50	3.60	21.20	3,000	80.00/M	BAT54ST-TP
	40	0.03	0.20	0.37	RB715W-TPMSCT-ND	.38	2.70	15.90	3,000	60.00/M	RB715W-TP
SOT-563											
20	30	0.20	—	0.40	BAT54VTPMSCT-ND	.38	2.70	15.90	3,000	60.00/M	BAT54V-TP
	40	0.20	—	0.38	BAS40VTPMSCT-ND	.50	3.60	21.20	3,000	80.00/M	BAS40V-TP
	80	0.50	4.0	0.855	MMBD4448VTPMSCT-ND	.38	2.70	15.90	3,000	60.00/M	MMBD4448V-TP
Powerlite-123											
21	50	1.0	30	1.1	SM4001PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4001PL-TP
	100	1.0	30	1.1	SM4002PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4002PL-TP
	200	1.0	30	1.1	SM4003PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4003PL-TP
	400	1.0	30	1.1	SM4004PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4004PL-TP
	600	1.0	30	1.1	SM4005PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4005PL-TP
	800	1.0	30	1.1	SM4006PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4006PL-TP
	1000	1.0	30	1.1	SM4007PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM4007PL-TP
	14	1.0	30	.45	SM5817PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM5817PL-TP
	21	1.0	30	.56	SM5818PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM5818PL-TP
	28	1.0	30	.60	SM5819PL-TPMSCT-ND	.50	3.60	21.20	2,500	80.00/M	SM5819PL-TP
	14	2.0	50	.50	SMD22PL-TPMSCT-ND	.52	3.69	24.20	2,500	107.26/M	SMD22PL-TP
	28	2.0	50	.50	SMD24PL-TPMSCT-ND	.52	3.69	24.20	2,500	107.26/M	SMD24PL-TP
	42	2.0	50	.70	SMD26PL-TPMSCT-ND	.52	3.69	24.20	2,500	107.26/M	SMD26PL-TP
	50	1.0	30	1.0	UFM11PL-TPMSCT-ND	.52	3.69	24.20	2,500	99.00/M	UFM11PL-TP
	100	1.0	30	1.0	UFM12PL-TPMSCT-ND	.52	3.69	24.20	2,500	99.00/M	UFM12PL-TP
	200	1.0	30	1.0	UFM13PL-TPMSCT-ND	.52	3.69	24.20	2,500	99.00/M	UFM13PL-TP
	400	1.0	30	1.4	UFM14PL-TPMSCT-ND	.52	3.69	24.20	2,500	99.00/M	UFM14PL-TP
	600	1.0	30	1.7	UFM15PL-TPMSCT-ND	.52	3.69	24.20	2,500	99.00/M	UFM15PL-TP
NEW! TO-220AB NEW!											
22	100	10	120	0.85	MBR10100CT-BPMS-ND	.80	7.00	54.00	—	—	MBR10100CT-BP
	100	20	150	0.95	MBR20100CT-BPMS-ND	.88	7.75	61.25	—	—	MBR20100CT-BP
	45	30	200	0.70	MBR3045CT-BPMS-ND	1.23	10.85	85.75	—	—	MBR3045CT-BP
NEW! D2PAK NEW!											
23	100	10	150	0.85	MBRB10100CT-TPMSCT-ND	.95	8.50	67.50	800	332.00	MBRB10100CT-TP
	100	20	150	0.85	MBRB20100CT-TPMSCT-ND	1.06	9.52	75.60	800	372.00	MBRB20100CT-TP

† For Tape and Reel part number, change CT-ND to TR-ND.   ‡ Glass Passivated

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

NEW! ESD Diodes

Fig. 1

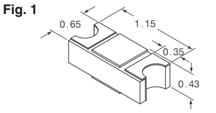

Fig. 2

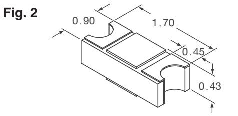

Fig. 3

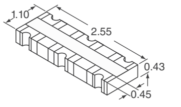

Fig.	Package	VDC (V)	Trigger (V)	Clamping (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel§ Qty.	Pricing	MCC Part No.
1	0402	12	300	20	MLESD12A-0402-TPMSCT-ND	.48	.34	.22	10,000	77.50/M	MLESD12A-0402-TP
2	0603	24	500	36	MLESD24B-0603-TPMSCT-ND	.48	.34	.22	5,000	85.00/M	MLESD24B-0603-TP
3	2510	8	300	15	MLESD08A-2510-TPMSCT-ND	1.43	1.30	1.11	3,000	513.00/M	MLESD08A-2510-TP

§ For Tape and Reel part number, change CT-ND to TR-ND

Mosfets

SOT-363

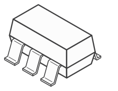

SOT-323

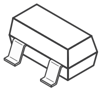

SOT-23

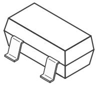

Package	VDSS (V)	ID (A)	IDM (A)	RDS (ON) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape & Reel§ Pricing 3,000	MCC Part No.
N-Channel									
SOT-363	70	1.0	—	7.5	2N7002DW-TPCT-ND	.50	3.60	80.00/M	2N7002DW-TP
SOT-323	60	0.115	—	7.5	2N7002W-TPMSCT-ND	.38	2.70	60.00/M	2N7002W-TP
SOT-23	60	0.115	—	7.5	2N7002-TPMSCT-ND	.42	2.76	32.40/M	2N7002-TP
SOT-23	20	3.0	10	.055	SI2302-TPMSCT-ND	.56	4.20	185.00/M	SI2302-TP
P-Channel									
SOT-23	20	2.8	10	.055	SI2301-TPMSCT-ND	.56	4.20	185.00/M	SI2301-TP

§ For Tape and Reel part number, change CT-ND to TR-ND

Switching Diodes

Fig. 1 — SOT-23-2

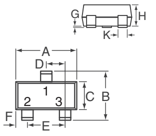

Dimensions – mm		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
K	0.37	0.51

Fig. 2 — SOT-323

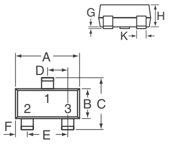

Dimensions – mm		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
K	0.30	0.40

Fig. 3 — MINIMELF, SMT

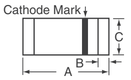

Dimensions – mm		
Dim.	Min.	Max.
A	3.40	3.60
B	0.20	0.40
C	1.40	1.50

Fig. 4 — DO-35

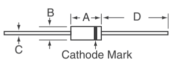

Dimensions – mm		
Dim.	Min.	Max.
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

Fig.	VR (V)	VRM (V)	IO (mA)	IFSM (A)	VF (mV)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 1	10	T&R† Pricing 3,000	MCC Part No.
SOT-23-2													
1	75	100	300	1.0	1250	—	—	—	BAS16TPMSCT-ND	.44	3.00	47.00/M	BAS16-TP
	100	120	200	2.5	1250	K	A	A	BAS19TPMSCT-ND	.44	3.00	47.00/M	BAS19-TP
	150	200	200	2.5	1250	K	A	A	BAS20TPMSCT-ND	.44	3.00	47.00/M	BAS20-TP
	200	250	200	2.5	1250	K	A	A	BAS21TPMSCT-ND	.44	3.00	47.00/M	BAS21-TP
	75	—	150	1.0	855	K	A	A	BAV70TPMSCT-ND	.44	3.00	47.00/M	BAV70-TP
	75	—	200	1.0	855	K/A	A	K	BAV99TPMSCT-ND	.44	3.00	47.00/M	BAV99-TP
	70	—	200	1.0	1250	K/A	A	K	BAV199MSCT-ND ***NEW!***	.50	3.40	47.00/M	BAV199
	75	—	150	1.0	855	A	K	K	BAW56TPMSCT-ND	.44	3.00	47.00/M	BAW56-TP
	100	—	150	1.0	820	K/A	A	C	MMBD7000TPMSCT-ND	.44	3.00	47.00/M	MMBD7000-TP
	—	—	200	1.0	885	A	—	K	MMBD1501TPMSCT-ND	.50	3.60	80.00/M	MMBD1501-TP
	—	—	200	1.0	885	A	K	K/A	MMBD1503TPMSCT-ND	.50	3.60	80.00/M	MMBD1503-TP
	—	—	200	1.0	885	A	K	A	MMBD1505TPMSCT-ND	.50	3.60	80.00/M	MMBD1505-TP
	75	100	200	1.0	885	A	—	K	MMBD4148TPMSCT-ND	.44	3.00	47.00/M	MMBD4148-TP
	75	100	150	1.0	885	K	—	A	MMBD914TPMSCT-ND	.35	2.30	27.00/M	MMBD914-TP
SOT-323													
2	200	—	200	2.5	1000	K	A	—	BAS21WTTPMSCT-ND	.44	3.00	47.00/M	BAS21WT-TP
	75	—	150	1.0	855	K/A	A	K	BAV99WTTPMSCT-ND	.44	3.00	47.00/M	BAV99WT-TP
	75	—	150	1.0	855	A	K	K	BAW56WTTPMSCT-ND	.44	3.00	47.00/M	BAW56WT-TP

Fig.	VR (V)	VRM (V)	IO (mA)	IFSM (A)	VF (mV)	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel† Qty.	Pricing	MCC Part No.
MINIMELF – SMT											
3	50	75	200	4.0	570	DL4150TPMSCT-ND	.42	2.76	2,500	32.40/M	DL4150-TP
	75	100	150	0.500	100	DL4148-TPMSCT-ND	.33	2.25	2,500	35.26/M	DL4148-TP
	75	100	150	0.500	100	DL4448TPMSCT-ND	.35	2.30	2,500	27.00/M	DL4448-TP
DO-35											
4	75	100	150	2.0	1000	1N4148-TPMSCT-ND	.24	1.61	10,000	19.00/M	1N4148-TP
	100	100	200	1.0	100	1N914-TPCT-ND	.21	1.38	10,000	16.00/M	1N914-TP
	100	100	200	1.0	720	1N914B-TPCT-ND	.21	1.38	10,000	16.00/M	1N914B-TP
SOD-123											
5	75	100	150	0.350	100	1N4148WTPMSCT-ND	.38	2.55	3,000	35.25/M	1N4148W-TP
	75	100	150	0.500	100	1N4448WTPMSCT-ND	.50	3.40	3,000	47.00/M	1N4448W-TP
	75	75	200	2.0	100	BAS16WTPMSCT-ND	.44	3.00	3,000	47.00/M	BAS16W-TP
SOD-323											
6	100	75	300	2.0	100	1N4148WXTPMSCT-ND	.38	2.55	3,000	35.25/M	1N4148WX-TP
	75	100	250	2.0	720	1N4448WXTPMSCT-ND	.50	3.40	3,000	47.00/M	1N4448WX-TP
	75	85	200	2.0	100	BAS16WXTPMSCT-ND	.44	3.00	3,000	47.00/M	BAS16WX-TP
	100	100	200	0.5	1000	MMDL914MSCT-ND ***NEW!***	.50	3.40	3,000	47.00/M	MMDL914
	100	100	200	0.5	1000	MMSD914MSCT-ND ***NEW!***	.50	3.40	3,000	47.00/M	MMSD914
SOD-523											
7	75	100	150	1.0	715	1N4148XTPMSCT-ND	.50	3.40	3,000	47.00/M	IN4148X-TP
	75	100	250	2.0	720	1N4448XTPMSCT-ND	.63	4.25	3,000	58.75/M	IN4448X-TP
	75	75	—	0.5	715	BAS16X-TPCT-ND	.37	2.55	3,000	39.95/M	BAS16X-TP
SOT-363											
8	75	100	150	1.0	100	BAS16TWMSCT-ND	.42	3.18	3,000	114.00/M	BAS16TW
	75	100	150	1.0	715	BAV70DW-TPCT-ND	.50	3.60	3,000	80.00/M	BAV70DW-TP
	75	100	150	1.0	715	BAW56DW-TPCT-ND	.50	3.60	3,000	80.00/M	BAW56DW-TP
	75	75	150	—	715	MMBD4148TW-TPCT-ND	.50	3.60	3,000	80.00/M	MMBD4148TW-TP
	75	—	150	—	1250	BAV99DW-TPCT-ND	.52	3.69	3,000	107.25/M	BAV99DW-TP
	80	100	250	2.0	1250	MMBD4448HTW-TPCT-ND	.49	3.71	3,000	133.00/M	MMBD4448HTW-TP
	80	100	250	2.0	1250	MMBD4448HSDW-TPCT-ND	.49	3.71	3,000	133.00/M	MMBD4448HSDW-TP
SOT-523											
9	—	85	—	—	715	BAW56T-TPCT-ND	.38	2.70	3,000	60.00/M	BAW56T-TP
	—	85	—	—	715	BAV99T-TPCT-ND	.38	2.70	3,000	60.00/M	BAV99T-TP
	80	100	250	—	—	MMBD4448HT-TPMSCT-ND	.48	3.35	3,000	90.00/M	MMBD4448HT-TP
	80	100	250	—	—	MMBD4448HTA-TPMSCT-ND	.48	3.35	3,000	90.00/M	MMBD4448HTA-TP
	80	100	250	—	—	MMBD4448HTS-TPMSCT-ND	.48	3.35	3,000	90.00/M	MMBD4448HTS-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 5 — SOD-123

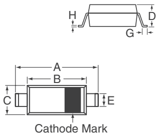

Dimensions – mm		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	0.30	0.78
G	0.15	—
H	—	0.25

Fig. 6 — SOD-323

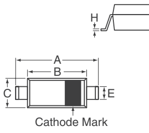

Dimensions – mm		
Dim.	Min.	Max.
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	0.80	1.15
E	0.25	0.40
G	0.10	0.45
H	0.10	0.25

Fig. 7 — SOD-523

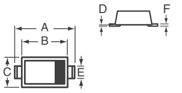

Dimensions – mm		
Dim.	Min.	Max.
A	1.50	1.70
B	1.10	1.30
C	0.75	0.85
D	0.01	0.07
E	0.25	0.35
F	0.08	0.15

Fig. 8 — SOT-363

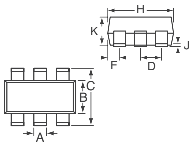

Dimensions – mm		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00

Fig. 9 — SOT-523

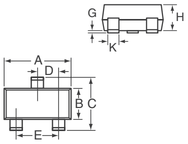

Dimensions – mm		
Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.10
H	0.70	0.80
K	0.25	0.35

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

•M•C•C•
Micro Commercial Components

Bridge Rectifiers

Digi-Reel® RoHS COMPLIANT

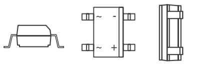
Fig. 1 — MBS-1, MB, LMB

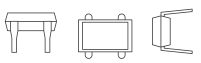
Fig. 2 — DB-1

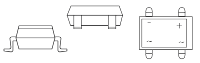
Fig. 3 — SDB **NEW!**

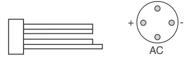

Fig. 4 — RB-15, WOM

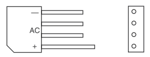

Fig. 5 — RS-4L

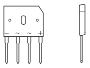
Fig. 6 — GBU

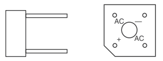

Fig. 7 — PB-6, BR-6

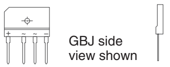

Fig. 8 — GBJ, KBP

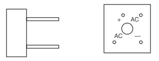

Fig. 9 — MB-35W, MP-50W

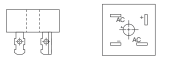

Fig. 10 — MP

Fig.	DC Reverse Voltage (V)	IF @ 25°C (A)	IFSM @ 25°C (A)	VF @ 25°C (V)	Digi-Key Part No.	Price Each 1	10	100	MCC Part No.
MBS-1 — Single Phase Glass Passivated Bridge Rectifiers									
1	100	0.5	30	1.0	MB1S-TPMSCT-ND§	.56	.43	.31	MB1S-TP
	100	0.5	30	1.0	MB1S-TPMSTR-ND†	456.00/3,000			MB1S-TP
	200	0.5	30	1.0	MB2S-TPMSCT-ND§	.56	.43	.31	MB2S-TP
	200	0.5	30	1.0	MB2S-TPMSTR-ND†	456.00/3,000			MB2S-TP
	400	0.5	30	1.0	MB4S-TPMSCT-ND§	.56	.43	.31	MB4S-TP
	400	0.5	30	1.0	MB4S-TPMSTR-ND†	456.00/3,000			MB4S-TP
	600	0.5	30	1.0	MB6S-TPMSCT-ND§	.56	.43	.31	MB6S-TP
	600	0.5	30	1.0	MB6S-TPMSTR-ND†	456.00/3,000			MB6S-TP
NEW! LMB — Single Phase Glass Passivated Bridge Rectifiers NEW!									
1	600	1.0	30	0.95	LMB6S-TPMSCT-ND§	.58	.46	.32	LMB6S-TP
	600	1.0	30	0.95	LMB6S-TPMSTR-ND†	620.00/5,000			LMB6S-TP
	800	1.0	30	0.95	LMB8S-TPMSCT-ND§	.58	.46	.32	LMB8S-TP
	800	1.0	30	0.95	LMB8S-TPMSTR-ND†	620.00/5,000			LMB8S-TP
NEW! MB — Single Phase Schottky Bridge Rectifiers NEW!									
1	20	1.0	30	0.50	MB12S-TPMSCT-ND§	.62	.47	.34	MB12S-TP
	20	1.0	30	0.50	MB12S-TPMSTR-ND†	448.80/3,000			MB12S-TP
	60	1.0	30	0.70	MB16S-TPMSCT-ND§	.62	.47	.34	MB16S-TP
	60	1.0	30	0.70	MB16S-TPMSTR-ND†	448.80/3,000			MB16S-TP
	100	1.0	30	0.85	MB110S-TPMSCT-ND§	.56	.42	.33	MB110S-TP
	100	1.0	30	0.85	MB110S-TPMSTR-ND†	450.00/3,000			MB110S-TP
DB-1 — Single Phase Glass Passivated Bridge Rectifiers									
2	50	1.0	50	1.1	DB101-BPMS-ND	.73	.55	.43	DB101-BP
	100	1.0	50	1.1	DB102-BPMS-ND	.73	.55	.43	DB102-BP
	200	1.0	50	1.1	DB103-BPMS-ND	.73	.55	.43	DB103-BP
	400	1.0	50	1.1	DB104-BPMS-ND	.68	.53	.45	DB104-BP
	600	1.0	50	1.1	DB105-BPMS-ND	.72	.56	.48	DB105-BP
	800	1.0	50	1.1	DB106-BPMS-ND	.81	.63	.54	DB106-BP
	1000	1.0	50	1.1	DB107-BPMS-ND	.90	.70	.60	DB107-BP
NEW! SDB — Single Phase Bridge Rectifiers NEW!									
3	400	1.0	50	1.1	SDB104-TPMSCT-ND§	.58	.46	.32	SDB104-TP
	400	1.0	50	1.1	SDB104-TPMSTR-ND†	216.00/1,500			SDB104-TP
	600	1.0	50	1.1	SDB105-TPMSCT-ND§	.58	.46	.32	SDB105-TP
	600	1.0	50	1.1	SDB105-TPMSTR-ND†	216.00/1,500			SDB105-TP
	1000	1.0	50	1.1	SDB107-TPMSCT-ND§	.58	.46	.32	SDB107-TP
	1000	1.0	50	1.1	SDB107-TPMSTR-ND†	216.00/1,500			SDB107-TP
	400	1.5	50	1.1	SDB154-TPMSCT-ND§	.66	.53	.40	SDB154-TP
	400	1.5	50	1.1	SDB154-TPMSTR-ND†	306.00/1,500			SDB154-TP
	600	1.5	50	1.1	SDB155-TPMSCT-ND§	.66	.53	.40	SDB155-TP
	600	1.5	50	1.1	SDB155-TPMSTR-ND†	306.00/1,500			SDB155-TP
	1000	1.5	50	1.1	SDB157-TPMSCT-ND§	.66	.53	.40	SDB157-TP
	1000	1.5	50	1.1	SDB157-TPMSTR-ND†	306.00/1,500			SDB157-TP
RB-15 — Single Phase Bridge Rectifiers									
4	50	1.5	50	1.0	RB151-BPMS-ND	.73	.55	.43	RB151-BP
	100	1.5	50	1.0	RB152-BPMS-ND	.73	.55	.43	RB152-BP
	200	1.5	50	1.0	RB153-BPMS-ND	.78	.59	.47	RB153-BP
	400	1.5	50	1.0	RB154-BPMS-ND	.68	.53	.45	RB154-BP
	600	1.5	50	1.0	RB155-BPMS-ND	.68	.53	.45	RB155-BP
	800	1.5	50	1.0	RB156-BPMS-ND	.68	.53	.45	RB156-BP
	1000	1.5	50	1.0	RB157-BPMS-ND	.68	.53	.45	RB157-BP
WOM — Single Phase Bridge Rectifiers									
4	50	1.5	50	1.0	W005M-BPMS-ND	.60	.46	.33	W005M-BP
	100	1.5	50	1.0	W01M-BPMS-ND	.60	.46	.33	W01M-BP
	200	1.5	50	1.0	W02M-BPMS-ND	.60	.46	.33	W02M-BP
	400	1.5	50	1.0	W04M-BPMS-ND	.60	.46	.33	W04M-BP
	600	1.5	50	1.0	W06M-BPMS-ND	.60	.46	.33	W06M-BP
	800	1.5	50	1.0	W08M-BPMS-ND	.60	.46	.33	W08M-BP
	1000	1.5	50	1.0	W10M-BPMS-ND	.60	.46	.33	W10M-BP
RS-4L — Single Phase Bridge Rectifiers									
5	1000	4.0	200	1.0	RS407L-BPMS-ND	1.88	1.65	1.40	RS407L-BP
	50	4.0	200	1.1	RS401GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS401GL-BP
	100	4.0	200	1.1	RS402GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS402GL-BP
	200	4.0	200	1.1	RS403GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS403GL-BP
	400	4.0	200	1.1	RS404GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS404GL-BP
	600	4.0	200	1.1	RS405GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS405GL-BP
	800	4.0	200	1.1	RS406GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS406GL-BP
	1000	4.0	200	1.1	RS407GL-BPMS-ND ***NEW!***	1.33	1.18	.94	RS407GL-BP
GBU — Single Phase Glass Passivated Bridge Rectifiers									
6	50	4.0	150	1.0	GBU4A-BPMS-ND	1.20	1.02	.87	GBU4A-BP
	100	4.0	150	1.0	GBU4B-BPMS-ND	1.20	1.02	.87	GBU4B-BP
	200	4.0	150	1.0	GBU4D-BPMS-ND	1.20	1.02	.87	GBU4D-BP
	400	4.0	150	1.0	GBU4G-BPMS-ND	1.20	1.02	.87	GBU4G-BP
	600	4.0	150	1.0	GBU4J-BPMS-ND	1.20	1.02	.87	GBU4J-BP
	800	4.0	150	1.0	GBU4K-BPMS-ND	1.20	1.02	.87	GBU4K-BP
	1000	4.0	150	1.0	GBU4M-BPMS-ND	1.20	1.02	.87	GBU4M-BP
	50	6.0	175	1.0	GBU6A-BPMS-ND	1.40	1.19	1.02	GBU6A-BP
	100	6.0	175	1.0	GBU6B-BPMS-ND	1.40	1.19	1.02	GBU6B-BP
	200	6.0	175	1.0	GBU6D-BPMS-ND	1.40	1.19	1.02	GBU6D-BP
	400	6.0	175	1.0	GBU6G-BPMS-ND	1.40	1.19	1.02	GBU6G-BP
	600	6.0	175	1.0	GBU6J-BPMS-ND	1.40	1.19	1.02	GBU6J-BP
	800	6.0	175	1.0	GBU6K-BPMS-ND	1.40	1.19	1.02	GBU6K-BP
	1000	6.0	175	1.0	GBU6M-BPMS-ND	1.40	1.19	1.02	GBU6M-BP
	50	8.0	200	1.0	GBU8A-BPMS-ND	1.60	1.36	1.16	GBU8A-BP
	100	8.0	200	1.0	GBU8B-BPMS-ND	1.60	1.36	1.16	GBU8B-BP
	200	8.0	200	1.0	GBU8D-BPMS-ND	1.60	1.36	1.16	GBU8D-BP
	400	8.0	200	1.0	GBU8G-BPMS-ND	1.60	1.36	1.16	GBU8G-BP
	600	8.0	200	1.0	GBU8J-BPMS-ND	1.60	1.36	1.16	GBU8J-BP
	800	8.0	200	1.0	GBU8K-BPMS-ND	1.60	1.36	1.16	GBU8K-BP
	1000	8.0	200	1.0	GBU8M-BPMS-ND	1.60	1.36	1.16	GBU8M-BP
	50	10	200	1.1	GBU10A-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10A-BP
	100	10	200	1.1	GBU10B-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10B-BP
	200	10	200	1.1	GBU10D-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10D-BP
6	400	10	200	1.1	GBU10G-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10G-BP
	600	10	200	1.1	GBU10J-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10J-BP
	800	10	200	1.1	GBU10K-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10K-BP
	1000	10	200	1.1	GBU10M-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU10M-BP
	50	15	240	1.1	GBU15A-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15A-BP
	100	15	240	1.1	GBU15B-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15B-BP
	200	15	240	1.1	GBU15D-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15D-BP
	400	15	240	1.1	GBU15G-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15G-BP
	600	15	240	1.1	GBU15J-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15J-BP
	800	15	240	1.1	GBU15K-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15K-BP
	1000	15	240	1.1	GBU15M-BPMS-ND ***NEW!***	1.74	1.57	1.26	GBU15M-BP
PB-6 — Single Phase Bridge Rectifiers									
7	50	6.0	125	1.1	PB605-BPMS-ND	1.68	1.43	1.22	PB605-BP
	100	6.0	125	1.1	PB61-BPMS-ND	1.68	1.43	1.22	PB61-BP
	200	6.0	125	1.1	PB62-BPMS-ND	1.68	1.43	1.22	PB62-BP
	400	6.0	125	1.1	PB64-BPMS-ND	1.76	1.50	1.28	PB64-BP
	600	6.0	125	1.1	PB66-BPMS-ND	1.84	1.57	1.34	PB66-BP
	800	6.0	125	1.1	PB68-BPMS-ND	1.92	1.64	1.40	PB68-BP
	1000	6.0	125	1.1	PB610-BPMS-ND	2.06	1.82	1.54	PB610-BP
BR-6 — Single Phase Bridge Rectifiers									
7	50	8.0	125	1.0	MB805-BPMS-ND	2.06	1.82	1.54	MB805-BP
	100	8.0	125	1.0	MB81-BPMS-ND	2.06	1.82	1.54	MB81-BP
	200	8.0	125	1.0	MB82-BPMS-ND	2.06	1.82	1.54	MB82-BP
	400	8.0	125	1.0	MB84-BPMS-ND	2.06	1.82	1.54	MB84-BP
	600	8.0	125	1.0	MB86-BPMS-ND	2.06	1.82	1.54	MB86-BP
	1000	8.0	125	1.0	MB810-BPMS-ND	2.06	1.82	1.54	MB810-BP
	50	10	150	1.1	MB1005-BPMS-ND	2.06	1.82	1.54	MB1005-BP
	100	10	150	1.1	MB101-BPMS-ND	2.06	1.82	1.54	MB101-BP
	200	10	150	1.1	MB102-BPMS-ND	2.06	1.82	1.54	MB102-BP
	400	10	150	1.1	MB104-BPMS-ND	2.25	1.98	1.68	MB104-BP
	600	10	150	1.1	MB106-BPMS-ND	2.63	2.31	1.96	MB106-BP
	800	10	150	1.1	MB108-BPMS-ND	2.63	2.31	1.96	MB108-BP
	1000	10	150	1.1	MB1010-BPMS-ND	2.81	2.48	2.10	MB1010-BP
GBJ — Glass Passivated Bridge Rectifiers									
8	50	10	170	1.05	GBJ10005-BPMS-ND	2.10	1.85	1.57	GBJ10005-BP
	100	10	170	1.05	GBJ1001-BPMS-ND	2.10	1.85	1.57	GBJ1001-BP
	200	10	170	1.05	GBJ1002-BPMS-ND	2.10	1.85	1.57	GBJ1002-BP
	400	10	170	1.05	GBJ1004-BPMS-ND	2.10	1.85	1.57	GBJ1004-BP
	600	10	170	1.05	GBJ1006-BPMS-ND	2.10	1.85	1.57	GBJ1006-BP
	800	10	170	1.05	GBJ1008-BPMS-ND	2.10	1.85	1.57	GBJ1008-BP
	1000	10	170	1.05	GBJ1010-BPMS-ND	2.10	1.85	1.57	GBJ1010-BP
	50	15	240	1.05	GBJ15005-BPMS-ND	2.10	1.85	1.57	GBJ15005-BP
	100	15	240	1.05	GBJ1501-BPMS-ND	2.10	1.85	1.57	GBJ1501-BP
	200	15	240	1.05	GBJ1502-BPMS-ND	2.10	1.85	1.57	GBJ1502-BP
	400	15	240	1.05	GBJ1504-BPMS-ND	2.10	1.85	1.57	GBJ1504-BP
	600	15	240	1.05	GBJ1506-BPMS-ND	2.10	1.85	1.57	GBJ1506-BP
	800	15	240	1.05	GBJ1508-BPMS-ND	2.10	1.85	1.57	GBJ1508-BP
	1000	15	240	1.05	GBJ1510-BPMS-ND	2.18	1.92	1.63	GBJ1510-BP
	50	25	350	1.05	GBJ25005-BPMS-ND	2.18	1.92	1.63	GBJ25005-BP
	100	25	350	1.05	GBJ2501-BPMS-ND	2.18	1.92	1.63	GBJ2501-BP
	200	25	350	1.05	GBJ2502-BPMS-ND	2.18	1.92	1.63	GBJ2502-BP
	400	25	350	1.05	GBJ2504-BPMS-ND	2.18	1.92	1.63	GBJ2504-BP
	600	25	350	1.05	GBJ2506-BPMS-ND	2.18	1.92	1.63	GBJ2506-BP
	800	25	350	1.05	GBJ2508-BPMS-ND	2.18	1.92	1.63	GBJ2508-BP
	1000	25	350	1.05	GBJ2510-BPMS-ND	2.18	1.92	1.63	GBJ2510-BP
	200	35	350	1.05	GBJ3502-BPMS-ND ***NEW!***	2.02	1.82	1.47	GBJ3502-BP
	600	35	350	1.05	GBJ3506-BPMS-ND ***NEW!***	2.02	1.82	1.47	GBJ3506-BP
	800	35	350	1.05	GBJ3508-BPMS-ND ***NEW!***	2.02	1.82	1.47	GBJ3508-BP
KBP — Single Phase Bridge Rectifiers									
8	50	2.0	50	1.1	KBP2005G-BPMS-ND	1.40	1.19	1.02	KBP2005G-BP
	100	2.0	50	1.1	KBP201G-BPMS-ND	1.40	1.19	1.02	KBP201G-BP
	200	2.0	50	1.1	KBP202G-BPMS-ND	1.40	1.19	1.02	KBP202G-BP
	400	2.0	50	1.1	KBP204G-BPMS-ND	1.40	1.19	1.02	KBP204G-BP
	600	2.0	50	1.1	KBP206G-BPMS-ND	1.40	1.19	1.02	KBP206G-BP
	800	2.0	50	1.1	KBP208G-BPMS-ND	1.40	1.19	1.02	KBP208G-BP
	1000	2.0	50	1.1	KBP210G-BPMS-ND	1.40	1.19	1.02	KBP210G-BP
MB-35W — Single Phase Bridge Rectifiers									
9	100	15	300	1.1	MB151W-BPMS-ND	3.85	3.41	2.64	MB151W-BP
	200	15	300	1.1	MB152W-BPMS-ND	3.85	3.41	2.64	MB152W-BP
	400	15	300	1.1	MB154W-BPMS-ND	3.85	3.41	2.64	MB154W-BP
	600	15	300	1.1	MB156W-BPMS-ND	4.03	3.57	2.76	MB156W-BP
	100	25	300	1.1	MB251W-BPMS-ND	3.85	3.41	2.64	MB251W-BP
	200	25	300	1.1	MB252W-BPMS-ND	4.03	3.57	2.76	MB252W-BP
	400	25	300	1.1	MB254W-BPMS-ND	4.03	3.57	2.76	MB254W-BP
	600	25	300	1.1	MB256W-BPMS-ND	4.20	3.72	2.88	MB256W-BP
	100	35	300	1.1	MB351W-BPMS-ND	4.20	3.72	2.88	MB351W-BP
	200	35	300	1.1	MB352W-BPMS-ND	4.20	3.72	2.88	MB352W-BP
	400	35	300	1.1	MB354W-BPMS-ND	4.38	3.88	3.00	MB354W-BP
	600	35	300	1.1	MB356W-BPMS-ND	4.38	3.88	3.00	MB356W-BP
	800	35	300	1.1	MB358W-BPMS-ND	4.55	4.03	3.12	MB358W-BP
	1000	35	300	1.1	MB3510W-BPMS-ND	4.90	4.34	3.36	MB3510W-BP
MP-50W — Single Phase Bridge Rectifiers									
9	100	50	400	1.2	MP501W-BPMS-ND	5.60	4.96	3.84	MP501W-BP
	200	50	400	1.2	MP502W-BPMS-ND	5.60	4.96	3.84	MP502W-BP
	400	50	400	1.2	MP504W-BPMS-ND	5.60	4.96	3.84	MP504W-BP
	600	50	400	1.2	MP506W-BPMS-ND	5.95	5.27	4.08	MP506W-BP
	800	50	400	1.2	MP508W-BPMS-ND	5.95	5.27	4.08	MP508W-BP
	1000	50	400	1.2	MP5010W-BPMS-ND	5.95	5.27	4.08	MP5010W-BP
MP — Single Phase Bridge Rectifier									
10	600	5 0	400	1.2	MP506-BPMS-ND	4.34	3.85	2.98	MP506-BP

§ Cut Tape † Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Diodes

Dimensions in mm

Fig. 1 — DO-15 and DO-41G

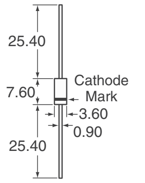

Fig. 2 — DO-41

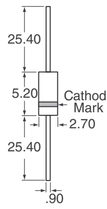

Fig. 3 — DO-35

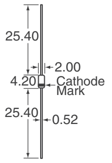

Fig. 4 — DO-214AA, SMB

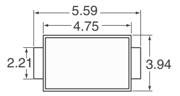

Fig. 5 — DO-214AC, SMA

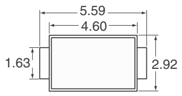

Fig. 6 — SOD-123

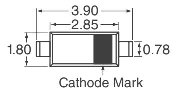

Fig. 7 — SOD-323

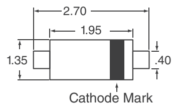

Fig. 8 — SOT-23

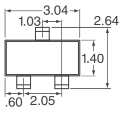

Fig. 9 — SOT-323 *NEW!*

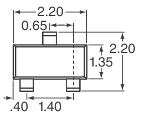

Fig. 10 — MINIMELF

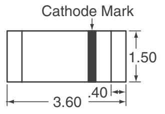

Fig. 11 — GLASS MELF

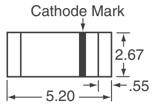

Fig. 12 — SOD-523

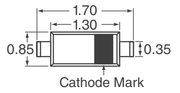

DO-15 Value (Code) Chart

5.1 (38)	14 (51)
5.6 (39)	15 (52)
6.2 (41)	18 (55)
6.8 (42)	27 (61)
8.2 (44)	28 (62)
9.1 (46)	33 (64)
11 (48)	39 (66)
12 (49)	

DO-41G Value (Code) Chart

3.3 (28)	6.8 (36)	15 (44)	33 (52)
3.6 (29)	7.5 (37)	16 (45)	36 (53)
3.9 (30)	8.2 (38)	18 (46)	39 (54)
4.3 (31)	9.1 (39)	20 (47)	43 (55)
4.7 (32)	10 (40)	22 (48)	47 (56)
5.1 (33)	11 (41)	24 (49)	62 (59)
5.6 (34)	12 (42)	27 (50)	75 (61)
6.2 (35)	13 (43)	30 (51)	

DO-41 Value (Code) Chart

11 (11)	24 (24)
12 (12)	27 (27)
13 (13)	30 (30)
15 (15)	33 (33)
16 (16)	36 (36)
18 (18)	39 (39)
20 (20)	
22 (22)	

DO-35 Value (Code) Chart

2.4 (21)	4.3 (29)	8.2 (37)	15 (45)	30 (56)	60 (64)
2.5 (22)	4.7 (30)	8.7 (38)	16 (46)	33 (57)	62 (65)
2.7 (23)	5.1 (31)	9.1 (39)	17 (47)	36 (58)	75 (67)
2.8 (24)	5.6 (32)	10 (40)	18 (48)	39 (59)	
3.0 (25)	6.0 (33)	11 (41)	19 (49)	43 (60)	
3.3 (26)	6.2 (34)	12 (42)	20 (50)	47 (61)	
3.6 (27)	6.8 (35)	13 (43)	22 (51)	51 (57	
3.9 (28)	7.5 (36)	14 (44)	25 (53)	56 (58)	

DO-214AA (3SMBJ59) Value (Code) Chart

6.2 (20)	16 (30)
6.8 (21)	22 (33)
9.1 (24)	30 (36)
11 (26)	36 (38))
12 (27)	47 (41)
15 (29)	

DO-214AA (SMBJ53) Value (Code) Chart

5.1 (38)	8.2 (44)	14 (51)	22 (58)	36 (65)
5.6 (39)	9.1 (46)	15 (52)	24 (59)	39 (66)
6 (40)	10 (47)	16 (53)	27 (61)	43 (67)
6.2 (41)	11 (48)	17 (54)	28 (62)	
6.8 (42)	12 (49)	18 (55)	30 (63)	
7.5 (43)	13 (50)	19 (56)	33 (64)	

DO-214AC (SMAJ47) Value (Code) Chart

6.2 (35)	15 (44)	39 (54)
6.8 (36)	18 (46)	75 (61)
9.1 (39)	20 (47)	
10 (40)	24 (49)	
12 (42)	33 (52)	
13 (43)	36 (53)	

DO-214AC (SMAJ59) Value (Code) Chart

6.2 (20)	51 (42)
6.8 (21)	
24 (34)	
39 (39)	
47 (41)	

DO-214AC (3SMAJ59) Value (Code) Chart

3.9 (15)	7.5 (22)	13 (28)	24 (34)	43 (40)
4.3 (16)	8.2 (23)	15 (29)	27 (35)	47 (41)
5.1 (18)	9.1 (24)	16 (30)	30 (36)	51 (42)
5.6 (19)	10 (25)	18 (31)	33 (37)	
6.2 (20)	11 (26)	20 (32)	36 (38)	
6.8 (21)	12 (27)	22 (33)	39 (39)	

DO-214AC (SMAZ) Value (Code) Chart

5.1 (5V1)	9.1 (9V1)	20 (20)	36 (36)
5.6 (5V6)	10 (10)	22 (22)	39 (39)
6.2 (6V2)	12 (12)	24 (24)	
6.8 (6V8)	15 (15)	27 (27)	
7.5 (7V5)	16 (16)	30 (30)	
8.2 (8V2)	18 (18)	33 (33)	

SOD-123 (MMSZ52) Value (Code) Chart

2.7 (23)	12 (42)	27 (54)
3.9 (28)	13 (43)	39 (59)
5.1 (31)	15 (45)	
6.2 (34)	16 (46)	
9.1 (39)	18 (48)	
11 (41)	24 (52)	

SOD-123 (BZT52C) Value (Code) Chart

2.7 (2V7)	12 (12)
3.9 (3V9)	15 (15)
5.1 (5V1)	24 (24)
5.6 (5V6)	33 (33)
9.1 (9V1)	36 (36)
10 (10)	39 (39)

SOD-123 (MMSZ46) Value (Code) Chart

3.0 (83)	6.2 (91)
3.3 (84)	6.8 (92)
3.6 (85)	7.5 (93)
3.9 (86)	8.2 (94)
4.7 (88)	
5.1 (89)	

SOD-323 (MMXZ52) Value (Code) Chart

2.7 (23)	6.2 (34)	24 (52)
3.9 (28)	9.1 (39)	27 (54)
5.1 (31)	13 (43)	36 (58)
5.6 (32)	15 (45)	39 (59)

SOD-323 (BZT52C) Value (Code) Chart

2.7 (2V7)	9.1 (9V1)	15 (15)	36 (36)
3.0 (3V0)	10 (10)	24 (24)	39 (39)
3.9 (3V9)	12 (12)	27 (27)	
5.1 (5V1)	13 (13)	33 (33)	

SOT-23 (AZ23C) and (DZ23C) Value (Code) Chart

3.6 (3V6)	6.8 (6V8)	36 (36)
3.9 (3V9)	7.5 (7V5)	
5.1 (5V1)	12 (12)	
6.2 (6V2)	24 (24)	

SOT-23 (BZX84C) Value (Code) Chart

5.1 (5V1)	11 (11)
5.6 (5V6)	15 (15)
7.5 (7V5)	27 (27)
9.1 (9V1)	39 (39)

SOT-23 (MMBZ) Value (Code) Chart

3.6 (27)	18 (48)
5.1 (31)	
8.7 (38)	
14 (44)	

MINIMELF (BZV55C) Value (Code) Chart

3.3 (3V3)	6.2 (6V2)	12 (12)	24 (24)
3.6 (3V6)	6.8 (6V8)	13 (13)	27 (27)
3.9 (3V9)	7.5 (7V5)	15 (15)	30 (30)
4.3 (4V3)	8.2 (8V2)	16 (16)	33 (33)
4.7 (4V7)	9.1 (9V1)	18 (18)	
5.1 (5V1)	10 (10)	20 (20)	
5.6 (5V6)	11 (11)	22 (22)	

MINIMELF (DL52) Value (Code) Chart

3.3 (26)	6.0 (33)	10 (40)	17 (47)	27 (54)
3.6 (27)	6.2 (34)	11 (41)	18 (48)	28 (55)
3.9 (28)	6.8 (35)	12 (42)	19 (49)	30 (56)
4.3 (29)	7.5 (36)	13 (43)	20 (50)	33 (57)
4.7 (30)	8.2 (37)	14 (44)	22 (51)	
5.1 (31)	8.7 (38)	15 (45)	24 (52)	
5.6 (32)	9.1 (39)	16 (46)	25 (53)	

GLASS MELF (DL47) Value (Code) Chart

3.3 (28)	12 (42)
3.6 (29)	13 (43)
3.9 (30)	15 (44)
4.3 (31)	22 (48)
5.1 (33)	24 (49)
6.8 (36)	27 (50)
11 (41)	30 (51)

SOD-523 (BZT52C) Value (Code) Chart

2.4 (2V4)	12 (12)
3.9 (3V9)	15 (15)
5.1 (5V1)	24 (24)
5.6 (5V6)	33 (33)
9.1 (9V1)	36 (36)
10 (10)	39 (39)
11 (11)	

SOT-323 (MMBZ52) Value (Code) Chart

3.6 (27)
5.1 (31)
8.7 (38)
14 (44)
18 (48)

SOT-323 (BZX84C) Value (Code) Chart

6.2 (6V2)
9.1 (9V1)
11 (11)
15 (15)
24 (24)

Fig.	Zener Voltage Value Range	Watts	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel	
				1	10	100		Qty.	Pricing
DO-15									
1	5.1 ~ 39	5.0	1N53(Code)BTPMSCT-ND	.55	4.13	29.64	1N53(Code)BTPMSTR-ND	4,000	148.20/M
DO-41G									
1	3.3 ~ 39	1.0	1N47(Code)A-TPCT-ND	.44	3.00	14.00	1N47(Code)A-TPTR-ND	5,000	47.00/M
	43 ~ 75	1.0	1N47(Code)A-TPCT-ND	.44	3.15	18.55	1N47(Code)A-TPTR-ND	5,000	70.00/M
DO-41									
2	11 ~ 39	2.0	2EZ(Code)D5-TPMSCT-ND	.42	3.18	22.80	2EZ(Code)D5-TPMSTR-ND	5,000	96.00/M
DO-35									
3	2.4 ~ 39	0.5	1N52(Code)B-TPCT-ND	.33	2.25	10.50	1N52(Code)B-TPTR-ND	10,000	35.25/M
	43 ~ 75	0.5	1N52(Code)B-TPCT-ND	.44	3.00	14.00	1N52(Code)B-TPTR-ND	10,000	47.00/M
DO-214AA									
4	6.8 ~ 47	3.0	3SMBJ59(Code)BTPMSCT-ND	.53	3.99	31.35	3SMBJ59(Code)BTPMSTR-ND	3,000	175.75/M
	6.2	3.0	3SMBJ5920B-TPMSCT-ND ***NEW!***	.33	2.85	23.28	3SMBJ5920B-TPMSTR-ND ***NEW!***	3,000	128.25/M
	5.1 ~ 43	5.0	SMBJ53(Code)B-TPMSCT-ND	.90	7.00	60.00	SMBJ53(Code)B-TPMSTR-ND	3,000	360.00/M
DO-214AC									
5	6.2 ~ 75	2.0	SMAJ47(Code)A-TPCT-ND	.52	3.69	24.20	SMAJ47(Code)A-TPTR-ND	7,500	93.50/M
	6.2 ~ 51	1.5	SMAJ59(Code)BTPMSCT-ND	.42	3.45	24.70	SMAJ59(Code)BTPMSTR-ND	7,500	104.00/M
	3.9 ~ 51	3.0	3SMAJ59(Code)B-TPMSCT-ND	.73	5.46	42.90	3SMAJ59(Code)B-TPMSTR-ND	7,500	240.50/M
	5.1 ~ 39	1.0	SMAZ(Code)-TPMSCT-ND	.48	3.35	22.00	SMAZ(Code)-TPMSTR-ND	7,500	85.00/M

† For complete part number, substitute the corresponding code from the Value Chart for (Code).

(Continued)

Digi Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Diodes *(Cont.)*

Fig.	Zener Voltage Value Range	Watts	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Qty.	Pricing
			SOD-123						
6	2.7 ~ 39	0.5	BZT52C(Code)-TPMSCT-ND	.50	3.40	16.00	BZT52C(Code)-TPMSTR-ND	3,000	47.00/M
	2.7 ~ 39	0.5	MMSZ52(Code)B-TPMSCT-ND	.50	3.40	16.00	MMSZ52(Code)B-TPMSTR-ND	3,000	47.00/M
	3.6 ~ 7.5	0.5	MMSZ46(Code)-TPMSCT-ND	.44	3.00	14.00	MMSZ46(Code)-TPMSTR-ND	3,000	47.00/M
	3.0/3.3/4.7/6.2/8.2	0.5	MMSZ46(Code)-TPMSCT-ND ***NEW!***	.50	3.40	16.00	MMSZ46(Code)-TPMSTR-ND ***NEW!***	3,000	47.00/M
			SOD-323						
7	2.7 ~ 39	0.2	BZT52C(Code)S-TPMSCT-ND	.63	4.25	20.00	BZT52C(Code)S-TPMSTR-ND	3,000	59.00/M
	2.7 ~ 39	0.2	MMXZ52(Code)B-TPMSCT-ND	.50	3.40	16.00	MMXZ52(Code)B-TPMSTR-ND	3,000	47.00/M
			SOT-23						
8	3.6 ~ 36	.30	AZ23C(Code)-TPMSCT-ND	.49	3.50	21.00	AZ23C(Code)-TPMSTR-ND	3,000	70.00/M
	5.1 ~ 39	.35	BZX84C(Code)-TPMSCT-ND	.50	3.40	16.00	BZX84C(Code)-TPMSTR-ND	3,000	47.00/M
	3.6 ~ 36	.30	DZ23C(Code)-TPMSCT-ND	.49	3.50	21.00	DZ23C(Code)-TPMSTR-ND	3,000	70.00/M
	3.6 ~ 18	.35	MMBZ52(Code)B-TPMSCT-ND ***NEW!***	.63	4.25	20.00	MMBZ52(Code)B-TPMSTR-ND ***NEW!***	3,000	59.00/M
			NEW! SOT-323 NEW!						
9	3.6 ~ 18	.20	MMBZ52(Code)BW-TPMSCT-ND	.63	4.25	20.00	MMBZ52(Code)BW-TPMSTR-ND	3,000	59.00/M
	6.2 ~ 24	.20	BZX84C(Code)W-TPMSCT-ND	.63	4.25	20.00	BZX84C(Code)W-TPMSTR-ND	3,000	59.00/M
			MINIMELF						
10	3.3 ~ 33	0.5	BZV55C(Code)-TPMSCT-ND	.38	2.70	15.90	BZV55C(Code)-TPMSTR-ND	2,500	60.00/M
	3.3 ~ 33	0.5	DL52(Code)B-TPMSCT-ND	.55	3.75	17.50	DL52(Code)B-TPMSTR-ND	2,500	58.76/M
			GLASS MELF						
11	3.3 ~ 30	1.0	DL47(Code)A-TPMSCT-ND	.52	3.69	24.20	DL47(Code)A-TPMSTR-ND	5,000	93.50/M
			SOD-523						
12	2.4 ~ 39	0.1	BZT52C(Code)T-TPMSCT-ND	.63	4.25	20.00	BZT52C(Code)T-TPMSTR-ND	3,000	59.00/M

† For complete part number, substitute the corresponding code from the Value Chart for (Code).

Transistors

Fig. 1 — SOT-23

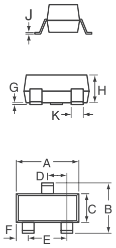

Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
J	0.085	0.180
K	0.37	0.51

Dimensions – mm

Fig. 2 — SOT-323

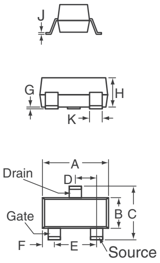

Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
J	0.100	0.250
K	0.30	0.40

Dimensions – mm

Fig. 3 — SOT-363

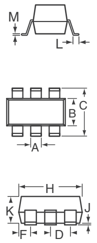

Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Dimensions – mm

Fig. 4 — SOT-563

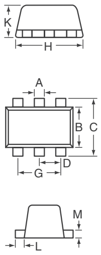

Dim.	Min.	Max.
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

Dimensions – mm

Fig. 5 — SOT-523

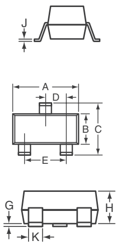

Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.100
H	0.70	0.80
J	0.100	0.200
K	0.25	0.35

Dimensions – mm

Fig. 6 — TO-220 / TO-220AB

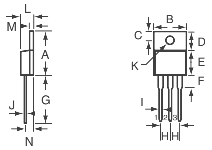

1. Base
2. Collector
3. Emitter

Dim.	Min.	Max.
A	14.22	15.88
B	9.65	10.67
C	2.54	3.43
D	5.84	6.86
E	8.50	9.35
F	—	6.35
G	12.70	14.73
H	2.29	2.79
I	0.51	1.14
J	0.30	0.64
K	3.53	4.09
L	3.56	4.83
M	1.14	1.40
N	2.03	2.92

Dimensions – mm

Fig. 7 — TO-92

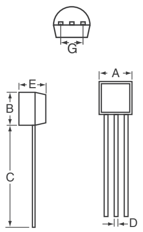

Dim.	Min.	Max.
A	4.33	4.83
B	4.30	4.83
C	13.97	14.97
D	0.36	0.56
E	3.30	3.96
G	2.44	2.64

Dimensions – mm

VCEO (V)	VCE(sat) (Vdc)	IC (mA)	Min. HFE	Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	T & R* Pricing 3,000	MCC Part No.
					NPN				
					Fig. 1 – SOT-23				
30	0.50	100	110	225	BC848A-TPMSCT-ND	.38	2.55	35.00/M	BC848A-TP
30	0.50	100	200	225	BC848B-TPMSCT-ND	.38	2.55	35.00/M	BC848B-TP
30	0.50	100	420	225	BC848C-TPMSCT-ND	.38	2.55	35.00/M	BC848C-TP
30	0.50	100	200	225	BC849B-TPMSCT-ND	.38	2.55	35.00/M	BC849B-TP
30	0.50	100	420	225	BC849C-TPMSCT-ND	.38	2.55	35.00/M	BC849C-TP
40	0.20	—	100	350	MMBT3904TPMSCT-ND	.32	2.07	24.00/M	MMBT3904-TP
40	0.30	—	75	350	MMBT2222ATPMSCT-ND	.35	2.30	27.00/M	MMBT2222A-TP
40	0.40	—	80	350	MMBT4401TPMSCT-ND	.39	2.53	29.70/M	MMBT4401-TP
45	0.50	100	220	225	BC847A-TPCT-ND	.33	2.25	35.25/M	BC847A-TP
45	0.50	100	450	225	BC847B-TPCT-ND	.33	2.25	35.25/M	BC847B-TP
45	0.50	100	800	225	BC847C-TPCT-ND	.33	2.25	35.25/M	BC847C-TP
45	0.70	800	60	310	BC817-16-TPMSCT-ND	.38	2.55	35.00/M	BC817-16-TP
45	0.70	800	100	310	BC817-25-TPMSCT-ND	.38	2.55	35.00/M	BC817-25-TP
45	0.70	800	170	310	BC817-40-TPMSCT-ND	.38	2.55	35.00/M	BC817-40-TP
60	0.25	500	100	350	MMBTA05TPMSCT-ND	.38	2.70	60.00/M	MMBTA05-TP
65	0.50	100	110	225	BC846A-TPMSCT-ND	.38	2.55	35.00/M	BC846A-TP
65	0.50	100	200	225	BC846B-TPMSCT-ND	.38	2.55	35.00/M	BC846B-TP
80	0.25	500	100	300	MMBTA06TPMSCT-ND	.38	2.70	60.00/M	MMBTA06-TP
160	0.50	600	200	300	MMBT5551-TPCT-ND	.40	2.70	42.30/M	MMBT5551-TP
300	0.50	—	40	300	MMBTA42TPMSCT-ND	.38	2.70	60.00/M	MMBTA42-TP
					Fig. 2 – SOT-323				
40	0.25	—	100	—	MMST3904TPMSCT-ND	.44	3.00	47.00/M	MMST3904-TP
40	0.40	—	100	200	MMST4401TPMSCT-ND	.44	3.00	47.00/M	MMST4401-TP
40	0.60	—	100	200	MMST2222ATPMSCT-ND	.44	3.00	47.00/M	MMST2222A-TP
45	0.25	100	220	—	BC847AW-TPCT-ND	.42	2.85	44.65/M	BC847AW-TP
45	0.25	100	450	—	BC847BW-TPCT-ND	.42	2.85	44.65/M	BC847BW-TP
45	0.25	100	800	—	BC847CW-TPCT-ND	.42	2.85	44.65/M	BC847CW-TP
160	0.15	—	80	200	MMST5551TPMSCT-ND	.44	3.00	47.00/M	MMST5551-TP
300	0.50	200	40	—	MMSTA42TPMSCT-ND	.44	3.00	47.00/M	MMSTA42-TP
					Fig. 3 – SOT-363				
40	0.30	200	300	200	MMDT3904-TPCT-ND	.43	3.02	87.75/M	MMDT3904-TP
40	0.30	200	300	200	DMMT3904-TPCT-ND	.42	3.18	114.00/M	DMMT3904-TP
40	0.30	600	300	—	MMDT2222A-TPCT-ND	.50	3.60	80.00/M	MMDT2222A-TP
40	0.40	600	300	200	MMDT4401-TPCT-ND	.50	3.60	80.00/M	MMDT4401-TP

* For Tape and Reel part number, change CT-ND to TR-ND. Δ Darlington

(Continued)

Transistors *(Cont.)*

VCEO (V)	VCE(sat) (Vdc)	IC (mA)	Min. HFE	Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	T & R* Pricing 3,000	MCC Part No.
45	0.25	100	630	200	BC847BS-TPCT-ND	.50	3.60	80.00/M	BC847BS-TP
160	0.15	200	250	200	MMDT5551-TPCT-ND	.50	3.60	80.00/M	MMDT5551-TP
Fig. 4 – SOT-563									
40	0.30	200	100	200	MMDT3904VTPMSCT-ND	.50	3.60	80.00/M	MMDT3904V-TP
Fig. 5 – SOT-523									
40	0.30	600	300	150	MMBT2222AT-TPCT-ND	.38	2.70	60.00/M	MMBT2222AT-TP
45	0.25	100	800	150	BC847CT-TPCT-ND	.38	2.70	60.00/M	BC847CT-TP
Fig. 6 – TO-220									
40	0.70	1A	20	30W	TIP29-BP-ND	.68	5.25	—	TIP29-BP
60	0.70	1A	20	30W	TIP29A-BP-ND	.68	5.25	—	TIP29A-BP
60	1.50	6A	15	65W	TIP41A-BP-ND	1.20	10.20	—	TIP41A-BP
60	2.50	5A	1,000	65W	TIP120-BP-ND	1.40	11.90	—	TIP120-BP
60	2.50	8A	200	80W	TIP100-BP-ND	1.40	11.90	—	TIP100-BP
80	0.70	1A	20	30W	TIP29B-BP-ND	.68	5.25	—	TIP29B-BP
80	2.50	8A	200	80W	TIP101-BP-ND	1.40	11.90	—	TIP101-BP
100	0.70	1A	20	30W	TIP29C-BP-ND	.68	5.25	—	TIP29C-BP
100	1.50	6A	15	65W	TIP41C-BP-ND	1.20	10.20	—	TIP41C-BP
100	2.50	5A	1,000	65W	TIP122-BP-ND	1.40	11.90	—	TIP122-BP
100	2.50	8A	200	80W	TIP102-BP-ND	1.40	11.90	—	TIP102-BP
Fig. 6 – TO-220AB									
60	1.20	2A	20	30W	TIP31A-BP-ND	.68	5.25	—	TIP31A-BP
60	2.50	2A	500	80W	TIP110-BP-ND	1.40	11.90	—	TIP110-BP
80	1.20	3A	20	30W	TIP31B-BP-ND	.68	5.25	—	TIP31B-BP
80	2.50	2A	500	80W	TIP111-BP-ND	1.40	11.90	—	TIP111-BP
100	1.20	3A	20	30W	TIP31C-BP-ND	.68	5.25	—	TIP31C-BP
100	2.50	2A	500	80W	TIP112-BP-ND	1.40	11.90	—	TIP112-BP
PNP									
Fig. 1 – SOT-23									
40	0.25	—	300	350	MMBT3906-TPCT-ND	.32	2.07	—	MMBT3906-TP
40	0.40	—	300	350	MMBT4403-TPCT-ND	.39	2.53	29.70/M	MMBT4403-TP
45	0.65	100	200	310	BC857A-TPMSCT-ND	.38	2.55	35.00/M	BC857A-TP
45	0.65	100	330	310	BC857B-TPMSCT-ND	.38	2.55	35.00/M	BC857B-TP
45	0.65	100	600	310	BC857C-TPMSCT-ND	.38	2.55	35.00/M	BC857C-TP
45	0.7	500	40	300	BC807-16-TPMSCT-ND	.38	2.55	35.00/M	BC807-16-TP
45	0.7	500	40	300	BC807-25-TPMSCT-ND	.38	2.55	35.00/M	BC807-25-TP
45	0.7	500	40	300	BC807-40-TPMSCT-ND	.38	2.55	35.00/M	BC807-40-TP
60	0.25	500	100	225	MMBTA55-TPCT-ND	.51	3.45	54.05/M	MMBTA55-TP
60	1.30	100	75	350	MMBT2907A-TPMSCT-ND	.32	2.07	24.00/M	MMBT2907A-TP
65	0.65	100	200	310	BC856A-TPMSCT-ND	.38	2.55	35.00/M	BC856A-TP
65	0.65	100	330	310	BC856B-TPMSCT-ND	.38	2.55	35.00/M	BC856B-TP
80	0.25	500	100	225	MMBTA56-TPCT-ND	.51	3.45	54.05/M	MMBTA56-TP
150	0.50	600	200	300	MMBT5401-TPCT-ND	.40	2.70	42.30/M	MMBT5401-TP
300	0.50	300	200	300	MMBTA92-TPCT-ND	.40	2.70	42.30/M	MMBTA92-TP
Fig. 2 – SOT-323									
40	0.20	200	100	—	MMST3906TPMSCT-ND	.44	3.00	47.00/M	MMST3906-TP
40	0.40	—	100	200	MMST4403TPMSCT-ND	.44	3.00	47.00/M	MMST4403-TP
60	0.60	—	100	200	MMST2907ATPMSCT-ND	.44	3.00	47.00/M	MMST2907A-TP
Fig. 3 – SOT-363									
40	0.25	200	300	200	MMDT3906-TPCT-ND	.43	3.02	87.75/M	MMDT3906-TP
40	0.40	200	300	200	DMMT3906-TPCT-ND	.42	3.18	114.00/M	DMMT3906-TP
40	0.40	600	300	200	MMDT4403-TPCT-ND	.50	3.60	80.00/M	MMDT4403-TP
50	0.5	50	120	150	UMT1N-TPMSCT-ND ***NEW!***	.51	3.60	86.40/M	UMT1N-TP
Fig. 4 – SOT-563									
45	—	-100	—	310	BC857BVTPMSCT-ND	.38	2.70	60.00/M	BC857BV-TP
Fig. 6 – TO-220									
40	1.20	3A	75	2W	TIP32-BP-ND	.68	5.25	—	TIP32-BP
60	1.20	3A	75	2W	TIP32A-BP-ND	.68	5.25	—	TIP32A-BP
60	1.20	5A	1,000	2W	TIP125-BP-NDΔ	1.40	11.90	—	TIP125-BP
80	1.20	5A	1,000	2W	TIP126-BP-NDΔ	1.40	11.90	—	TIP126-BP
80	2.50	2A	500	2W	TIP116-BP-NDΔ	1.40	11.90	—	TIP116-BP
100	1.20	3A	75	2W	TIP32C-BP-ND	.68	5.25	—	TIP32C-BP
100	1.20	3A	75	2W	TIP42C-BP-ND	1.20	10.20	—	TIP42C-BP
100	1.20	5A	1000	2W	TIP127-BP-NDΔ	1.40	11.90	—	TIP127-BP

* For Tape and Reel part number, change CT-ND to TR-ND. Δ Darlington

VCEO (V)	VCE(sat) (Vdc)	IC (mA)	Min. HFE	Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	T & B† Pricing 2,000	MCC Part No.
NPN									
Fig. 7 – TO-92									
40	0.20	—	300	600	2N3904-APCT-ND	.42	2.76	32.40/M	2N3904-AP
40	0.75	—	300	600	2N4401-APCT-ND	.42	2.76	32.40/M	2N4401-AP
45	0.7	800	60	625	BC337-APMSTB-ND	—	—	70.00/M	BC337-AP
45	0.7	800	60	625	BC337-16-APMSTB-ND	—	—	70.00/M	BC337-16-AP
45	0.7	800	60	625	BC337-25-APMSTB-ND	—	—	70.00/M	BC337-25-AP
45	0.7	800	60	625	BC337-40-APMSTB-ND	—	—	70.00/M	BC337-40-AP
45	0.3	100	110	625	BC547-APMSTB-ND	—	—	70.00/M	BC547-AP
45	0.3	100	90	625	BC547A-APMSTB-ND	—	—	70.00/M	BC547A-AP
45	0.3	100	150	625	BC547B-APMSTB-ND	—	—	70.00/M	BC547B-AP
45	0.3	100	420	625	BC547C-APMSTB-ND	—	—	70.00/M	BC547C-AP
65	0.3	100	110	625	BC546-APMSTB-ND	—	—	70.00/M	BC546-AP
65	0.3	100	150	625	BC546B-APMSTB-ND	—	—	70.00/M	BC546B-AP
80	0.25	500	100	625	MPSA06-APMSCT-ND ***NEW!***	.50	3.40	47.00/M	MPSA06-AP
200	0.4	300	80	625	MPSA43-APMSCT-ND ***NEW!***	.50	3.40	47.00/M	MPSA43-AP
PNP									
Fig. 7 – TO-92									
40	0.40	—	300	600	2N3906-APCT-ND	.42	2.76	32.40/M	2N3906-AP
40	0.75	—	300	600	2N4403-APCT-ND	.42	2.76	32.40/M	2N4403-AP
45	0.7	800	40	625	BC327-APMSTB-ND	—	—	70.00/M	BC327-AP
45	0.7	800	40	625	BC327-16-APMSTB-ND	—	—	70.00/M	BC327-16-AP
45	0.7	800	40	625	BC327-25-APMSTB-ND	—	—	70.00/M	BC327-25-AP
45	0.7	800	40	625	BC327-40-APMSTB-ND	—	—	70.00/M	BC327-40-AP
60	1.60	—	300	600	PN2907A-APCT-ND	.42	2.76	32.40/M	PN2222A-AP
80	0.25	100	100	625	MPSA56-APMSCT-ND ***NEW!***	.50	3.40	47.00/M	MPSA56-AP
300	0.5	300	250	625	MPSA92-APMSCT-ND ***NEW!***	.50	3.40	47.00/M	MPSA92-AP

† For Tape and Box part number, change CT-ND to TB-ND.

Digital Transistors

VCEO (V) (Max.)	IO (mA) (Typ.)	Gain (HFE) (Min.)	R1 (kΩ) (Max.)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	T & R* Pricing 3,000	MCC Part No.
NPN								
SOT-323								
10	100	33	1.3	DTC113ZUA-TPMSCT-ND	.45	3.06	42.00/M	DTC113ZUA-TP
12	100	80	2.86	DTC123JUA-TPMSCT-ND	.45	3.06	42.00/M	DTC123JUA-TP
40	30	56	28.6	DTC124EUA-TPMSCT-ND	.45	3.06	42.00/M	DTC124EUA-TP
40	50	30	13	DTC114EUA-TPMSCT-ND	.45	3.06	42.00/M	DTC114EUA-TP
40	100	68	61.1	DTC144EUA-TPMSCT-ND	.45	3.06	42.00/M	DTC144EUA-TP
40	70	68	13	DTC114YUA-TPMSCT-ND	.45	3.06	42.00/M	DTC114YUA-TP
50	100	100	13	DTC114TUA-TPMSCT-ND	.45	3.06	42.00/M	DTC114TUA-TP
50	100	100	61.1	DTC144TUA-TPMSCT-ND	.45	3.06	42.00/M	DTC144TUA-TP
SOT-523								
40	70	68	13	DTC114YE-TPMSCT-ND	.45	3.06	42.00/M	DTC114YE-TP
40	30	56	28.6	DTC124EE-TPMSCT-ND	.45	3.06	42.00/M	DTC124EE-TP
40	100	68	61.1	DTC144EE-TPMSCT-ND	.45	3.06	42.00/M	DTC144EE-TP
50	100	80	2.2	DTC123JE-TPMSCT-ND	.45	3.06	42.00/M	DTC123JE-TP
50	100	100	13	DTC114TE-TPMSCT-ND	.45	3.06	42.00/M	DTC114TE-TP
50	100	100	61.1	DTC144TE-TPMSCT-ND	.45	3.06	42.00/M	DTC144TE-TP
NEW! SOT-23 NEW!								
0.3	50	33	1.3	DTC113ZCA-TPMSCT-ND	.63	4.25	58.75/M	DTC113ZCA-TP
0.3	50	30	6.11	DTC143XCA-TPMSCT-ND	.63	4.25	58.75/M	DTC143XCA-TP
PNP								
SOT-323								
5	100	80	2.86	DTA123JUA-TPMSCT-ND	.45	3.06	42.00/M	DTA123JUA-TP
5	100	80	6.11	DTA143ZUA-TPMSCT-ND	.45	3.06	42.00/M	DTA143ZUA-TP
10	30	56	28.6	DTA124EUA-TPMSCT-ND	.45	3.06	42.00/M	DTA124EUA-TP
10	30	68	61.1	DTA144EUA-TPMSCT-ND	.45	3.06	42.00/M	DTA144EUA-TP
10	50	30	13	DTA114EUA-TPMSCT-ND	.45	3.06	42.00/M	DTA114EUA-TP
10	100	30	6.11	DTA143EUA-TPMSCT-ND	.45	3.06	42.00/M	DTA143EUA-TP
50	100	100	13	DTA114TUA-TPMSCT-ND	.45	3.06	42.00/M	DTA114TUA-TP
SOT-523								
5	100	80	2.86	DTA123JE-TPMSCT-ND	.45	3.06	42.00/M	DTA123JE-TP
5	100	80	6.11	DTA143ZE-TPMSCT-ND	.45	3.06	42.00/M	DTA143ZE-TP
10	30	56	28.6	DTA124EE-TPMSCT-ND	.45	3.06	42.00/M	DTA124EE-TP
10	30	68	61.1	DTA144EE-TPMSCT-ND	.45	3.06	42.00/M	DTA144EE-TP
10	100	30	6.11	DTA143EE-TPMSCT-ND	.45	3.06	42.00/M	DTA143EE-TP
50	100	100	13	DTA114TE-TPMSCT-ND	.45	3.06	42.00/M	DTA114TE-TP
NEW! Dual Transistors - SOT 363 NEW!								
0.3	50	68	61.1	UMH2N-TPMSCT-ND	.51	3.60	86.40/M	UMH2N-TP
0.3	50	56	28.6	UMH1N-TPMSCT-ND	.53	3.80	76.00/M	UMH1N-TP
0.3	50	30	13	UMH11N-TPMSCT-ND	.53	3.80	76.00/M	UMH11N-TP

* For Tape and Reel part number, change CT-ND to TR-ND.

Dimensions in mm

Fig. 1 — DO-4

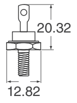

Fig. 2 — DO-5

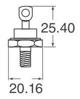

Fig. 3 — DO-214AB

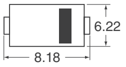

Fig. 4 — Half Pak

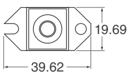

Fig. 5 — TO-220AB

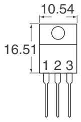

Fig. 6 — TO-220AC

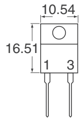

Fig. 7 — TO-247

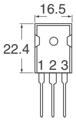

Fig. 8 — TO-220

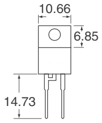

Fig. 9 — TO-247

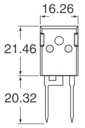

Fig. 10 — SOT-227

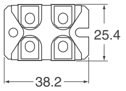

Diodes

Fig.	Working Peak Reverse Voltage	Average Forward Current IF (AV)	Maximum Surge Current IFSM	Digi-Key Part No.	Price Each 1	10	100	Microsemi Part No.
1	50	30A	600A	SBR3050-ND	17.72	15.95	13.29	SBR3050
2	50	80A	1200A	SBR8050-ND	19.88	17.90	14.91	SBR8050
3	45	3A	150A	LSM345JCT-ND†	4.13	2.75	2.20	LSM345J/TR13
	45	3A	150A	LSM345JTR-ND‡	4020.00/3,000			LSM345J/TR13
4	15	240A	3500A	HS24515-ND	51.32	46.19	38.49	HS24515
5	150	20A	225A	FST20150-ND	3.60	3.24	2.70	FST20150
	180	30A	250A	FST31180-ND	3.60	3.24	2.70	FST31180
6	45	16A	300A	MS1645-ND	3.20	2.88	2.40	MS1645
	45	16A	300A	MS1645E3-ND◆	3.20	2.88	2.40	MS1645E3
7	100	30A	350A	FST30100-ND	6.24	5.62	4.68	FST30100
	100	50A	400A	FST50100-ND	9.80	8.82	7.35	FST50100

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Fig.	VRM Maximum	IF Average (A)	VF Maximum	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
				RoHS Compliant				
8	1000	15	3.0	APT15DQ100KG-ND	2.12	1.91	1.59	APT15DQ100KG
9	600	30	2.4	APT30DQ60BG-ND	3.64	3.28	2.73	APT30DQ60BG
	1000	30	3.0	APT30DQ100BG-ND	4.48	4.04	3.36	APT30DQ100BG
	1200	60	3.3	APT60DQ120BG-ND	7.80	7.02	5.85	APT60DQ120BG
10	200	30	1.3	APT2X30D20J-ND	25.03	21.46	16.99	APT2X30D20J
	200	100	1.1	APT2X100D20J-ND	28.68	23.70	19.96	APT2X100D20J
	200	100	1.1	APT2X101D20J-ND	28.68	23.70	19.96	APT2X101D20J
	300	60	1.4	APT2X61D30J-ND	23.69	19.57	16.48	APT2X61D30J
	300	100	1.4	APT2X101D30J-ND	28.68	23.70	19.96	APT2X101D30J
	400	60	1.5	APT2X61D40J-ND	23.69	19.57	16.48	APT2X61D40J
	400	100	1.5	APT2X101D40J-ND	28.68	23.70	19.96	APT2X101D40J
	600	30	1.8	APT2X30D60J-ND	25.03	21.46	16.99	APT2X30D60J
	600	30	1.8	APT2X31D60J-ND	25.03	21.46	16.99	APT2X31D60J
	600	30	2.2	APT2X30DQ60J-ND	20.02	17.16	13.59	APT2X30DQ60J
	600	30	2.2	APT2X31DQ60J-ND	20.02	17.16	13.59	APT2X31DQ60J
	600	50	1.8	APT2X50DC60J-ND	331.68	274.00	230.74	APT2X50DC60J
	600	60	1.8	APT2X60D60J-ND	23.69	19.57	16.48	APT2X60D60J
	600	60	1.8	APT2X61D60J-ND	23.69	19.57	16.48	APT2X61D60J
	600	60	2.3	APT2X61DQ60J-ND	23.07	19.78	15.66	APT2X61DQ60J
	600	100	1.8	APT2X100D60J-ND	28.68	23.70	19.96	APT2X100D60J
	600	100	1.8	APT2X101D60J-ND	28.68	23.70	19.96	APT2X101D60J
	600	100	2.2	APT2X101DQ60J-ND	27.94	23.96	18.97	APT2X101DQ60J
	600	150	1.6	APT2X151DL60J-ND	33.70	27.84	23.44	APT2X151DL60J
10	1000	28	2.3	APT2X30D100J-ND	24.70	20.41	17.19	APT2X30D100J
	1000	55	2.5	APT2X60D100J-ND	28.41	23.47	19.76	APT2X60D100J
	1000	55	2.5	APT2X61D100J-ND	28.41	23.47	19.76	APT2X61D100J
	1000	60	2.8	APT2X61DQ100J-ND	27.66	23.72	18.78	APT2X61DQ100J
	1000	95	2.5	APT2X100D100J-ND	34.41	28.43	23.94	APT2X100D100J
	1000	95	2.5	APT2X101D100J-ND	34.41	28.43	23.94	APT2X101D100J
	1000	100	2.7	APT2X101DQ100J-ND	27.53	22.75	19.16	APT2X101DQ100J
	1200	30	2.5	APT2X30D120J-ND	27.88	23.03	19.40	APT2X30D120J
	1200	30	3.1	APT2X30DQ120J-ND	27.16	23.28	18.43	APT2X30DQ120J
	1200	30	3.1	APT2X31DQ120J-ND	27.16	23.28	18.43	APT2X31DQ120J
	1200	50	1.8	APT2X50DC120J-ND	468.60	387.11	325.99	APT2X50DC120J
	1200	53	2.5	APT2X61D120J-ND	32.41	26.78	22.55	APT2X61D120J
	1200	60	3.1	APT2X60DQ120J-ND	25.92	21.42	18.04	APT2X60DQ120J
	1200	60	3.1	APT2X61DQ120J-ND	25.92	21.42	18.04	APT2X61DQ120J
	1200	93	2.5	APT2X100D120J-ND	39.97	33.03	27.81	APT2X100D120J
	1200	93	2.5	APT2X101D120J-ND	39.97	33.03	27.81	APT2X101D120J
	1200	100	3.0	APT2X100DQ120J-ND	34.41	28.43	23.94	APT2X100DQ120J
	1200	100	3.0	APT2X101DQ120J-ND	34.41	28.43	23.94	APT2X101DQ120J

Power Modules

VRM Maximum	IF Average (A)	VF Maximum	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
			RoHS Compliant				
200	500	1.1	APTDF400KK20G-ND ***NEW!***	151.25	124.95	105.22	APTDF400KK20G
200	500	1.1	APTDF500U20G-ND ***NEW!***	148.05	122.31	103.00	APTDF500U20G
400	500	1.5	APTDF500U40G-ND	148.05	122.31	103.00	APTDF500U40G
600	60	1.8	APTDC40H601G-ND	409.45	338.24	284.84	APTDC40H601G
600	270	2.0	APTDF200H60G-ND ***NEW!***	151.25	124.95	105.22	APTDF200H60G
1200	40	1.8	APTDC40H1201G-ND	572.59	473.01	398.32	APTDC40H1201G
1200	470	3.0	APTDF400AA120G-ND ***NEW!***	157.99	130.52	109.91	APTDF400AA120G
1200	470	3.0	APTDF400AK120G-ND ***NEW!***	157.99	130.52	109.91	APTDF400AK120G
1200	470	3.0	APTDF400KK120G-ND ***NEW!***	157.99	130.52	109.91	APTDF400KK120G
1600	75	1.4	MSD75-16-ND	40.69	33.62	28.31	MSD75-16
1600	90	1.3†	APTDR90X1601G-ND	44.07	36.41	30.66	APTDR90X1601G
1600	120	1.4	MSKD120-16-ND	35.26	29.13	24.53	MSKD120-16
1600	160	1.4	MSD160-16-ND	79.28	65.50	55.16	MSD160-16
1600	165	1.4	MSKD165-16-ND	61.07	50.45	42.48	MSKD165-16
1700	480	2.5	APTDF400AK170G-ND ***NEW!***	208.59	172.32	145.11	APTDF400AK170G

† Typical

NEW! Diode Modules

A

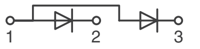

B

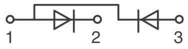

C

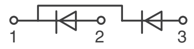

Circuit	VRM Maximum	IF Average (A)	VF Maximum	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
				Diode Arrays				
A	1600	100	1.35	MSAD100-16-ND	33.37	27.57	23.22	MSAD100-16
A	1600	200	1.3	MSAD200-16-ND	73.53	60.75	51.16	MSAD200-16
B	800	36	1.25	MSCD36-08-ND	26.47	21.87	18.42	MSCD36-08
B	1200	36	1.25	MSCD36-12-ND	26.47	21.87	18.42	MSCD36-12
B	1600	36	1.25	MSCD36-16-ND	26.82	22.16	18.66	MSCD36-16
B	800	60	1.3	MSCD60-08-ND	28.43	23.49	19.78	MSCD60-08
B	1200	60	1.3	MSCD60-12-ND	28.43	23.49	19.78	MSCD60-12
B	1600	60	1.3	MSCD60-16-ND	29.07	24.02	20.23	MSCD60-16
B	800	70	1.48	MSCD70-08-ND	29.46	24.34	20.50	MSCD70-08
B	1200	70	1.48	MSCD70-12-ND	29.46	24.34	20.50	MSCD70-12
B	1600	70	1.48	MSCD70-16-ND	30.27	25.01	21.06	MSCD70-16
B	800	100	1.35	MSCD100-08-ND	32.25	26.64	22.44	MSCD100-08
B	1200	100	1.35	MSCD100-12-ND	32.25	26.64	22.44	MSCD100-12
B	1600	100	1.35	MSCD100-16-ND	33.37	27.57	23.22	MSCD100-16
B	800	120	1.43	MSCD120-08-ND	33.88	27.99	23.57	MSCD120-08
B	1200	120	1.43	MSCD120-12-ND	33.88	27.99	23.57	MSCD120-12
B	1600	120	1.43	MSCD120-16-ND	35.26	29.13	24.53	MSCD120-16
B	800	165	1.4	MSCD165-08-ND	59.04	48.78	41.08	MSCD165-08
B	1200	165	1.4	MSCD165-12-ND	59.04	48.78	41.08	MSCD165-12
B	1600	165	1.4	MSCD165-16-ND	61.07	50.45	42.48	MSCD165-16
B	800	200	1.3	MSCD200-08-ND	70.43	58.18	49.00	MSCD200-08
B	1200	200	1.3	MSCD200-12-ND	70.43	58.18	49.00	MSCD200-12
B	1600	200	1.3	MSCD200-16-ND	73.53	60.75	51.16	MSCD200-16
C	800	36	1.25	MSKD36-08-ND	26.47	21.87	18.42	MSKD36-08
C	1200	36	1.25	MSKD36-12-ND	26.47	21.87	18.42	MSKD36-12
C	1600	36	1.25	MSKD36-16-ND	26.82	22.16	18.66	MSKD36-16
C	800	60	1.3	MSKD60-08-ND	28.43	23.49	19.78	MSKD60-08
C	1200	60	1.3	MSKD60-12-ND	28.43	23.49	19.78	MSKD60-12
C	1600	60	1.3	MSKD60-16-ND	29.07	24.02	20.23	MSKD60-16
C	800	70	1.48	MSKD70-08-ND	29.46	24.34	20.50	MSKD70-08
C	1200	70	1.48	MSKD70-12-ND	29.46	24.34	20.50	MSKD70-12
C	1600	70	1.48	MSKD70-16-ND	30.27	25.01	21.06	MSKD70-16
C	800	100	1.35	MSKD100-08-ND	32.25	26.64	22.44	MSKD100-08
C	1200	100	1.35	MSKD100-12-ND	32.25	26.64	22.44	MSKD100-12
C	1600	100	1.35	MSKD100-16-ND	33.37	27.57	23.22	MSKD100-16
C	800	120	1.43	MSKD120-08-ND	33.88	27.99	23.57	MSKD120-08
C	1200	120	1.43	MSKD120-12-ND	33.88	27.99	23.57	MSKD120-12
C	800	165	1.4	MSKD165-08-ND	59.04	48.78	41.08	MSKD165-08
C	1200	165	1.4	MSKD165-12-ND	59.04	48.78	41.08	MSKD165-12
C	800	200	1.3	MSKD200-08-ND	70.43	58.18	49.00	MSKD200-08
C	1200	200	1.3	MSKD200-12-ND	70.43	58.18	49.00	MSKD200-12
C	1600	200	1.3	MSKD200-16-ND	73.53	60.75	51.16	MSKD200-16
				3-Phase Bridge Rectifiers				
—	800	30	1.6	MSD30-08-ND	27.00	22.31	18.79	MSD30-08
—	1200	30	1.6	MSD30-12-ND	27.00	22.31	18.79	MSD30-12
—	1600	30	1.6	MSD30-16-ND	27.69	22.88	19.27	MSD30-16
—	800	50	1.5	MSD50-08-ND	27.85	23.01	19.38	MSD50-08
—	1200	50	1.5	MSD50-12-ND	27.85	23.01	19.38	MSD50-12
—	1600	50	1.5	MSD50-16-ND	28.59	23.62	19.89	MSD50-16
—	800	50	1.8	MSD52-08-ND	37.58	31.05	26.15	MSD52-08
—	1200	50	1.8	MSD52-12-ND	37.58	31.05	26.15	MSD52-12
—	1600	50	1.8	MSD52-16-ND	38.32	31.66	26.66	MSD52-16
—	800	75	1.6	MSD75-08-ND	39.70	32.80	27.62	MSD75-08
—	1200	75	1.6	MSD75-12-ND	39.70	32.80	27.62	MSD75-12
—	1200	100	1.9	MSD100-12-ND	65.16	53.83	45.33	MSD100-12
—	1600	100	1.9	MSD100-16-ND	66.22	54.71	46.07	MSD100-16
—	800	130	1.8	MSD130-08-ND	72.43	59.84	50.39	MSD130-08
—	1200	130	1.8	MSD130-12-ND	72.43	59.84	50.39	MSD130-12
—	1600	130	1.8	MSD130-16-ND	74.36	61.43	51.73	MSD130-16
—	800	160	1.65	MSD160-08-ND	77.03	63.64	53.59	MSD160-08
—	1200	160	1.65	MSD160-12-ND	77.03	63.64	53.59	MSD160-12
—	800	200	1.55	MSD200-08-ND	85.22	70.40	59.28	MSD200-08
—	1200	200	1.55	MSD200-12-ND	85.22	70.40	59.28	MSD200-12
—	1600	200	1.55	MSD200-16-ND	88.71	73.29	61.72	MSD200-16

Microsemi

Switching Diode Array

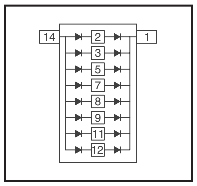

Features: • 8 Isolated lines • Standard SOIC 14 pin Surface Mount Package • UL 94V-0 Flammability Classification

Vbr @ Ibr = 100µA (V)	Ir 25°C		CAP @ 0 V (pF)	trr (nS)	Vf @ If = 100mA (V)		Digi-Key	Pricing		
Minimum	(µA) Maximum	(V) @ Vr	Maximum	Maximum	Minimum	Maximum	Part No.	1	10	100
90	0.200	20	1.5	5.0	1	1.20	MAD1103E3-ND	9.96	89.60	746.64

IGBT and Power Modules

Dimensions in mm

Fig. 1 — TO-247

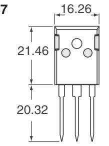

Fig. 2 — T-MAX®

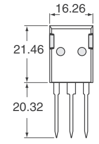

Fig. 3 — TO-264

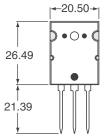

Fig. 4 — SOT-227

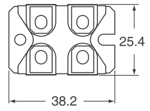

IGBT

Fig.	VCES Max.	IC Average (A)	ICM Max. (A)	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
1	600	25	30	APT12GT60BRG-ND	5.72	5.15	4.29	APT12GT60BRG
	600	50	84	APT28GA60BD15-ND	9.28	8.36	6.96	APT28GA60BD15
	600	56	65	APT15GP60BDQ1G-ND	7.59	6.51	5.15	APT15GP60BDQ1G
	600	63	75	APT30GN60BG-ND	6.80	6.12	5.10	APT30GN60BG
	600	64	110	APT30GT60BRDQ2G-ND	9.36	8.43	7.02	APT30GT60BRDQ2G
	600	64	110	APT30GT60BRG-ND	8.37	7.18	5.69	APT30GT60BRG
	600	80	160	APT40GT60BRG-ND	10.25	8.79	6.96	APT40GT60BRG
	600	93	195	APT50GS60BRDQ2G-ND	11.54	9.89	7.83	APT50GS60BRDQ2G
	600	93	195	APT50GS60BRG-ND	8.99	7.71	6.10	APT50GS60BRG
	600	96	161	APT54GA60BD30-ND	10.72	9.20	7.28	APT54GA60BD30
	600	100	120	APT30GP60BG-ND	11.17	9.58	7.59	APT30GP60BG
	600	100	120	APT30GP60BDQ1G-ND	12.21	10.47	8.29	APT30GP60BDQ1G
	600	100	160	APT40GP60BG-ND	15.46	13.25	10.49	APT40GP60BG
	600	100	190	APT50GP60BG-ND	18.03	15.46	12.24	APT50GP60BG
	600	100	360	APT60GT60BRG-ND	12.91	11.07	8.76	APT60GT60BRG
	600	107	150	APT50GN60BDQ2G-ND	8.20	7.04	5.57	APT50GN60BDQ2G
	600	107	150	APT50GN60BG-ND	9.60	8.64	7.20	APT50GN60BG
	600	110	150	APT50GT60BRDQ2G-ND	8.76	7.52	5.95	APT50GT60BRDQ2G
	600	110	150	APT50GT60BRG-ND	10.32	9.29	7.74	APT50GT60BRG
	600	143	240	APT80GA60B-ND	13.58	11.64	9.22	APT80GA60B
	900	27	79	APT27GA90BD15-ND	8.90	7.64	6.05	APT27GA90BD15
	900	43	60	APT15GP90BDQ1G-ND	8.51	7.30	5.78	APT15GP90BDQ1G
	900	63	105	APT35GA90BD15-ND	8.99	7.71	6.10	APT35GA90BD15
	900	72	110	APT25GP90BDQ1G-ND	12.40	10.64	8.42	APT25GP90BDQ1G
	900	72	110	APT25GP90BG-ND	11.40	9.77	7.74	APT25GP90BG
	900	78	129	APT43GA90BD30-ND	11.09	9.51	7.53	APT43GA90BD30
	900	100	160	APT40GP90BG-ND	20.78	17.81	14.10	APT40GP90BG
	900	117	193	APT64GA90B-ND	12.12	10.40	8.23	APT64GA90B
	900	145	239	APT80GA90B-ND	15.18	13.01	10.30	APT80GA90B
	1200	36	45	APT15GT120BRDQ1G-ND	9.20	8.28	6.90	APT15GT120BRDQ1G
	1200	41	50	APT13GP120BDQ1G-ND	9.77	8.38	6.64	APT13GP120BDQ1G
	1200	45	45	APT15GN120BDQ1G-ND	10.24	9.22	7.68	APT15GN120BDQ1G
	1200	52	104	APT33GF120BRG-ND	10.16	8.72	6.90	APT33GF120BRG
	1200	54	75	APT25GT120BRDQ2G-ND	9.69	8.31	6.58	APT25GT120BRDQ2G
	1200	54	75	APT25GT120BRG-ND	10.96	9.87	8.22	APT25GT120BRG
	1200	69	90	APT25GP120BDQ1G-ND	16.27	13.95	11.04	APT25GP120BDQ1G
	1200	69	90	APT25GP120BG-ND	15.01	12.87	10.19	APT25GP120BG
	1200	94	105	APT35GN120BG-ND	10.67	9.15	7.24	APT35GN120BG
	1200	96	140	APT35GP120BG-ND	22.04	18.89	14.96	APT35GP120BG
	1200	100	170	APT45GP120BG-ND	25.17	21.58	17.09	APT45GP120BG
2	600	100	330	APT80GP60B2G-ND	26.68	22.04	18.56	APT80GP60B2G
	600	150	190	APT50GP60B2DQ2G-ND	20.24	17.36	13.74	APT50GP60B2DQ2G
	600	283	600	APT200GN60B2G-ND	25.65	21.19	17.84	APT200GN60B2G
	900	101	160	APT40GP90B2DQ2G-ND	24.58	21.08	16.69	APT40GP90B2DQ2G
	1200	64	75	APT33GF120B2RDQ2G-ND	20.02	17.16	13.59	APT33GF120B2RDQ2G
	1200	67	75	APT25GN120B2DQ2G-ND	11.48	9.84	7.79	APT25GN120B2DQ2G
	1200	94	150	APT50GT120B2RDQ2G-ND	21.00	18.00	14.25	APT50GT120B2DQ2G
	1200	94	150	APT50GT120B2RG-ND	19.38	16.61	13.15	APT50GT120B2RG
	1200	96	140	APT35GP120B2DQ2G-ND	25.79	22.11	17.50	APT35GP120B2DQ2G
	1200	100	300	APT75GP120B2G-ND	29.44	24.32	20.48	APT75GP120B2G
	1200	113	170	APT45GP120B2DQ2G-ND	28.90	24.77	19.61	APT45GP120B2DQ2G
	1200	245	300	APT100GN120B2G-ND	30.50	25.20	21.22	APT100GN120B2G
3	600	155	225	APT75GN60LDQ3G-ND	13.13	11.26	8.92	APT75GN60LDQ3G
	600	183	307	APT102GA60L-ND	20.33	17.43	13.80	APT102GA60L
	600	198	250	APT65GP60L2DQ2G-ND	29.06	24.92	19.73	APT65GP60L2DQ2G
	600	229	300	APT100GN60LDQ4G-ND	18.84	16.16	12.79	APT100GN60LDQ4G
	1200	64	75	APT33GF120LRDQ2G-ND	21.31	18.27	14.46	APT33GF120LRDQ2G
	1200	94	105	APT35GN120L2DQ2G-ND	13.61	11.67	9.24	APT35GN120L2DQ2G
	1200	106	150	APT50GT120LRDQ2G-ND	22.60	19.37	15.34	APT50GT120LRDQ2G
	1200	134	150	APT50GN120L2DQ2G-ND	22.62	19.40	15.36	APT50GN120L2DQ2G
	1200	156	225	APT50GF120LRG-ND	23.91	20.50	16.23	APT50GF120LRG
	1200	200	225	APT75GN120LG-ND	20.64	17.69	14.01	APT75GN120LG
4	600	58	110	APT30GF60JU2-ND	34.27	29.38	23.26	APT30GF60JU2
	600	86	160	APT40GP60J-ND	32.61	26.95	22.69	APT40GP60J
	600	93	360	APT60GT60JR-ND	34.98	28.90	24.34	APT60GT60JR
	600	120	320	APT100GF60JU2-ND	37.65	31.11	26.20	APT100GF60JU2
	600	130	250	APT65GP60JDQ2-ND	43.63	36.05	30.36	APT65GP60JDQ2
	600	148	300	APT100GT60JRDQ4-ND	45.47	37.57	31.64	APT100GT60JRDQ4
	600	148	300	APT100GT60JR-ND	26.68	22.04	18.56	APT100GT60JR
	600	151	330	APT80GP60J-ND	47.77	39.47	33.24	APT80GP60J
	600	220	450	APT150GN60JDQ4-ND	37.28	30.80	25.94	APT150GN60JDQ4
	600	220	450	APT150GN60J-ND	31.03	25.64	21.59	APT150GN60J
	600	283	600	APT200GN60J-ND	38.53	31.83	26.80	APT200GN60J
	900	64	160	APT40GP90JDQ2-ND	46.23	38.19	32.16	APT40GP90JDQ2
	1200	64	140	APT35GP120JDQ2-ND	47.22	39.01	32.85	APT35GP120JDQ2
	1200	64	140	APT35GP120J-ND	43.54	35.97	30.29	APT35GP120J
	1200	75	170	APT45GP120JDQ2-ND	49.84	41.18	34.68	APT45GP120JDQ2
	1200	75	170	APT45GP120J-ND	46.35	38.29	32.24	APT45GP120J
	1200	120	225	APT50GF120JRDQ3-ND	78.27	64.66	54.45	APT50GF120JRDQ3
	1200	123	200	APT100GT120JRDL-ND	59.23	48.93	41.20	APT100GT120JRDL
	1200	123	200	APT100GT120JRDQ4-ND	59.82	49.42	41.62	APT100GT120JRDQ4
	1200	124	225	APT75GN120JDQ3-ND	33.17	27.40	23.08	APT75GN120JDQ3
	1200	128	300	APT75GP120JDQ3-ND	54.40	44.94	37.84	APT75GP120JDQ3
	1200	128	300	APT75GP120J-ND	50.60	41.80	35.20	APT75GP120J
	1200	140	280	APT100GT120JU2-ND	55.94	46.21	38.92	APT100GT120JU2
	1200	149	300	APT60GF120JRDQ3-ND	102.24	84.46	71.12	APT60GF120JRDQ3
	1200	170	450	APT150GT120JR-ND	61.27	50.62	42.63	APT150GT120JR
	1200	215	450	APT150GN120J-ND	49.15	40.61	34.20	APT150GN120J

Power Modules

VCES Max.	IC Average (A)	ICM Maximum (A)	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
600	30	60	APTCV60TLM99T3G-ND	84.43	69.75	58.74	APTCV60TLM99T3G
600	42	100	APTGF30TL601G-ND	58.33	48.19	40.58	APTGF30TL601G
600	80	100	APTGT50X60T3G-ND ***NEW!***	88.11	72.79	61.30	APTGT50X60T3G
600	65	230	APTGF50DH60T1G-ND ***NEW!***	52.69	43.53	36.66	APTGF50DH60T1G
600	65	230	APTGF50H60T3G-ND	69.41	57.35	48.29	APTGF50H60T3G
600	65	230	APTGF50TL60T3G-ND ***NEW!***	76.02	62.80	52.88	APTGF50TL60T3G
600	80	100	APTGT50TL601G-ND	69.07	57.06	48.05	APTGT50TL601G
600	100	140	APTGT75A60T1G-ND ***NEW!***	54.26	44.83	37.75	APTGT75A60T1G
600	100	140	APTGT75TL60T3G-ND	88.53	73.14	61.59	APTGT75TL60T3G
600	110	200	APTGF90DH60T3G-ND ***NEW!***	76.20	62.95	53.01	APTGF90DH60T3G
600	150	200	APTGT100A60T1G-ND ***NEW!***	61.25	50.60	42.61	APTGT100A60T1G
600	150	200	APTGT100DA60T1G-ND ***NEW!***	48.92	40.42	34.04	APTGT100DA60T1G
600	150	200	APTGT100H60T3G-ND ***NEW!***	96.00	79.31	66.79	APTGT100H60T3G
600	200	300	APTGT150TL60G-ND ***NEW!***	201.66	166.60	140.29	APTGT150TL60G
600	220	630	APTGF180DH60G-ND	189.11	156.22	131.56	APTGF180DH60G
600	225	350	APTGT150A60T1G-ND ***NEW!***	76.25	62.99	53.04	APTGT150A60T1G
600	225	350	APTGT150DA60T1G-ND ***NEW!***	56.42	46.61	39.25	APTGT150DA60T1G
600	230	400	APTGF165A60D1G-ND ***NEW!***	119.90	99.05	83.41	APTGF165A60D1G
600	290	400	APTGT200A60T3AG-ND ***NEW!***	108.54	89.67	75.51	APTGT200A60T3AG
600	300	400	APTGT200TL60G-ND	239.84	198.14	166.85	APTGT200TL60G
600	400	600	APTGT300SK60D3G-ND ***NEW!***	155.32	128.31	108.05	APTGT300SK60D3G
600	430	500	APTGT300DU60G-ND ***NEW!***	216.32	178.70	150.48	APTGT300DU60G
600	430	1225	APTGF350A60G-ND	259.16	214.10	180.29	APTGF350A60G
600	460	800	APTGF330DA60D3G-ND ***NEW!***	177.15	146.34	123.24	APTGF330DA60D3G
600	520	800	APTGF330A60D3G-ND ***NEW!***	242.03	199.94	168.37	APTGF330A60D3G
600	670	1000	APTGF500U60D4G-ND ***NEW!***	195.85	161.79	136.24	APTGF500U60D4G
600	700	800	APTGT600A60G-ND	341.87	282.42	237.83	APTGT600A60G
600	700	800	APTGT600SK60G-ND ***NEW!***	225.33	186.15	156.76	APTGT600SK60G
1200	40	100	APTGF25X120T3G-ND ***NEW!***	92.14	76.12	64.10	APTGF25X120T3G
1200	50	100	APTCV90TL12T3G-ND	134.92	111.46	93.86	APTCV90TL12T3G
1200	75	150	APTGF50H120TG-ND ***NEW!***	124.50	102.85	86.61	APTGF50H120TG
1200	80	100	APTGL60TL120T3G-ND	103.36	85.39	71.91	APTGL60TL120T3G
1200	100	150	APTGF75DSK120TG-ND ***NEW!***	115.55	95.46	80.39	APTGF75DSK120TG
1200	100	150	APTGF75H120TG-ND	160.36	132.47	111.56	APTGF75H120TG
1200	130	200	APTGF100A120T3WG-ND ***NEW!***	98.65	81.50	68.63	APTGF100A120T3WG
1200	135	300	APTGF100DA120TG-ND ***NEW!***	91.72	75.78	63.81	APTGF100DA120TG
1200	140	200	APTGL120TA120TPG-ND ***NEW!***	292.84	241.91	203.72	APTGL120TA120TPG
1200	200	300	APTGF150A120TG-ND	160.13	132.28	111.40	APTGF150A120TG
1200	200	300	APTGF150DA120TG-ND ***NEW!***	112.24	92.72	78.08	APTGF150DA120TG
1200	200	300	APTGF150DU120TG-ND ***NEW!***	159.48	131.75	110.95	APTGF150DU120TG
1200	200	300	APTGF150H120G-ND ***NEW!***	323.91	267.58	225.33	APTGF150H120G
1200	210	300	APTGF150A120T3WG-ND ***NEW!***	123.79	102.26	86.12	APTGF150A120T3WG
1200	220	300	APTGT150A120T3AG-ND ***NEW!***	142.92	118.07	99.43	APTGT150A120T3AG
1200	230	300	APTGL180A120T3AG-ND ***NEW!***	137.17	113.32	95.43	APTGL180A120T3AG
1200	280	400	APTGT200A120G-ND	226.67	187.25	157.68	APTGT200A120G
1200	400	600	APTGF300DA120G-ND ***NEW!***	206.93	170.95	143.96	APTGF300DA120G
1200	400	600	APTGF300U120DG-ND	205.16	169.48	142.72	APTGF300U120DG
1200	420	600	APTGF300A120D3G-ND ***NEW!***	316.41	261.39	220.12	APTGF300A120D3G
1200	420	600	APTGT300DA120G-ND ***NEW!***	198.97	164.37	138.42	APTGT300DA120G
1200	420	600	APTGL325A120D3G-ND ***NEW!***	292.79	241.87	203.68	APTGL325A120D3G
1200	560	800	APTGT400DU120G-ND ***NEW!***	361.74	298.84	251.65	APTGT400DU120G
1200	610	1200	APTGL475U120D4G-ND ***NEW!***	221.65	183.11	154.20	APTGL475U120D4G
1200	900	1200	APTGT600U120D4G-ND	277.43	229.18	193.00	APTGT600U120D4G
1700	150	200	APTGT100DU170TG-ND ***NEW!***	143.61	118.64	99.91	APTGT100DU170TG
1700	400	600	APTGT300A170G-ND ***NEW!***	384.77	317.86	267.67	APTGT300A170G
1700	400	600	APTGT300DU170G-ND ***NEW!***	384.49	317.63	267.48	APTGT300DU170G
1700	1100	1200	APTGT600U170D4G-ND ***NEW!***	342.42	282.88	238.21	APTGT600U170D4G

MOSFETs/FREDFETs

Dimensions in mm

Fig.	VDS Max.	IC Avg. (A)	RDS (on) Max. Ω	Digi-Key Part No.	Pricing 1	25	100	Microsemi Part No.
1	500	24	0.14	APT24F50B-ND	9.56	215.10	717.00	APT24F50B
	500	42	0.14	APT42F50B-ND	14.14	303.00	959.50	APT42F50B
2	1000	31	0.40	APT31M100L-ND	24.98	535.20	1694.80	APT31M100L
3	500	38	0.10	APT38M50J-ND	30.04	620.35	2089.60	APT38M50J

Fig. 1 — TO-247(B) / T-MAX™(B2)

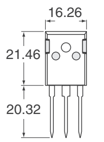

Fig. 2 — TO-264(L)

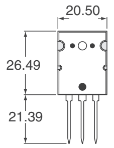

Fig. 3 — SOT-227 (ISOTOP®)

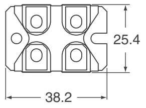

Power MOSFETs

Dimensions in mm

Fig. 1 — SOT-227

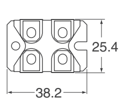

Fig. 2 — T-MAX™

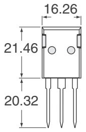

Fig. 3 — TO-264

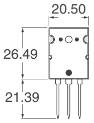

Fig. 4 — TO-247

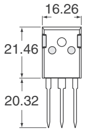

Fig. 5 — TO-220

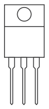

Fig. 6 — M174/M113

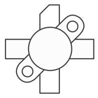

Fig. 7 — M208

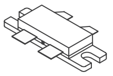

Fig. 8 — T2

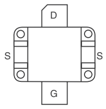

Fig. 9 — M177

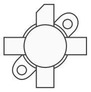

Fig.	VDS Maximum	I_D Maximum (A)	RDS (on) Maximum Ω	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
1	100	142	0.011	APT10M11JVRU2-ND	50.03	41.33	34.80	APT10M11JVRU2
	100	142	0.011	APT10M11JVRU3-ND	50.03	41.33	34.80	APT10M11JVRU3
	500	43	0.12	APL501J-ND	110.91	91.62	77.16	APL501J
	500	44	0.10	APT5010JVRU2-ND	50.81	41.98	35.35	APT5010JVRU2
	500	44	0.10	APT5010JVRU3-ND	50.81	41.98	35.35	APT5010JVRU3
	500	51	0.075	APT51F50J-ND	34.91	28.85	24.29	APT51F50J
	500	51	0.075	APT51M50J-ND	33.65	27.80	23.41	APT51M50J
	500	52	0.09	APL502J-ND	83.03	68.59	57.76	APL502J
	500	100	0.038	APT100M50J-ND	58.65	48.45	40.80	APT100M50J
	600	77	0.035	APT77N60JC3-ND	41.79	34.53	29.08	APT77N60JC3
	800	58	0.11	APT58M80J-ND	75.53	62.40	52.55	APT58M80J
	1000	18	0.60	APL1001J-ND	117.37	96.96	81.65	APL1001J
	1000	41	0.21	APT41F100J-ND	77.33	63.88	53.80	APT41F100J
	1200	34	0.30	APT34M120J-ND	77.23	63.81	53.73	APT24M120J
2	500	58	0.09	APL502B2G-ND	52.37	43.27	36.44	APL502B2G
	500	56	0.10	APT56M50B2-ND	15.82	13.56	10.74	APT56M50B2
	500	75	0.075	APT75M50B2-ND	20.97	17.98	14.24	APT75M50B2
	500	84	0.065	APT84M50B2-ND	26.01	22.30	17.66	APT84M50B2
	600	66	0.10	APT66M60B2-ND	27.24	23.36	18.49	APT66M60B2
	800	34	0.145	APT34N80B2C3G-ND	14.25	12.22	9.68	APT34N80B2C3G
	800	41	0.28	APT38F80B2-ND	25.73	22.06	17.47	APT38F80B2
	1000	37	0.33	APT37M100B2-ND	25.58	21.13	17.80	APT37M100B2
	1200	26	0.65	APT26F120B2-ND	31.90	26.36	22.20	APT26F120B2
	1200	28	0.56	APT28M120B2-ND	27.19	22.46	18.92	APT28M120B2
3	500	56	0.10	APT56M50L-ND	16.18	13.88	10.99	APT56M50L
	500	58	0.09	APL502LG-ND	54.14	44.73	37.67	APL502LG
	500	84	0.065	APT84M50L-ND	25.56	21.92	17.35	APT84M50L
	600	56	0.13	APT56M60L-ND	22.15	18.99	15.03	APT56M60L
	600	94	0.035	APT94N60L2C3G-ND	29.10	24.04	20.24	APT94N60L2C3G
	800	34	0.145	APT34N80LC3G-ND	14.25	12.22	9.68	APT34N80LC3G
	800	44	0.24	APT44F80L-ND	25.42	21.00	17.68	APT44F80L
	800	48	0.20	APT48M80L-ND	24.24	20.03	16.87	APT48M80L
	1000	29	0.46	APT29F100L-ND	26.99	23.14	18.32	APT29F100L
	1000	34	0.40	APT34F100L-ND	26.91	22.23	18.72	APT34F100L
	1000	37	0.33	APT37M100L-ND	25.12	20.75	17.48	APT37M100L
4	500	14	—	ARF460AG-ND ***NEW!***	52.16	43.10	36.29	ARF460AG
	500	14	—	ARF460BG-ND ***NEW!***	52.16	43.10	36.29	ARF460BG
	500	20	0.30	APT20F50B-ND	8.04	7.24	6.03	APT20F50B
	500	37	0.15	APT37F50B-ND	9.52	8.16	6.46	APT37F50B
	600	18	0.39	APT18F60B-ND	9.96	8.97	7.47	APT18F60B
	600	28	0.25	APT28F60B-ND	9.94	8.52	6.75	APT28F60B
	600	34	0.21	APT34F60B-ND	18.62	15.96	12.64	APT34F60B
	600	47	0.07	APT47N60BC3G-ND	17.89	15.34	12.15	APT47N60BC3G
	600	60	0.045	APT60N60BCSG-ND	26.85	23.02	18.23	APT60N60BCSG
	800	11	0.45	APT11N80BC3G-ND	8.48	7.64	6.36	APT11N80BC3G
	800	22	0.50	APT22F80B-ND	13.44	11.52	9.12	APT22F80B
	1000	7	2.0	APT7F100B-ND	9.40	8.46	7.05	APT7F100B
	1000	8	1.80	APT8M100B-ND	9.00	8.10	6.75	APT8M100B
	1000	17	0.80	APT17F100B-ND	13.92	11.93	9.45	APT17F100B
	1000	18	0.70	APT18M100B-ND	13.27	11.38	9.01	APT18M100B
	1200	7	2.50	APT7M120B-ND	7.95	6.82	5.40	APT7M120B
	1200	7	2.90	APT7F120B-ND	8.32	7.13	5.65	APT7F120B
	1200	13	1.40	APT13F120B-ND	14.78	12.68	10.04	APT13F120B
	1200	14	1.20	APT14M120B-ND	13.94	11.96	9.47	APT14M120B
	1200	26	0.65	APT26F120L-ND	31.90	26.36	22.20	APT26F120L
5	500	15	0.39	APT15F50K-ND	5.44	4.90	4.08	APT15F50K
	600	12	0.62	APT12F60K-ND	5.68	5.12	4.26	APT12F60K
	800	11	0.45	APT11N80KC3G-ND	7.88	7.10	5.91	APT11N80KC3G
	1000	6	2.50	APT6M100K-ND	6.16	5.55	4.62	APT6M100K
	1200	4	4.60	APT4F120K-ND	6.84	6.16	5.13	APT4F120K
	1200	4	4.00	APT4M120K-ND	6.56	5.91	4.92	APT4M120K
6	80	20	—	VRF141-ND	65.09	53.77	45.28	VRF141
	130	20	0.20	VRF152-ND	97.77	80.77	68.02	VRF152
	170	6	—	VRF148A-ND	62.28	51.46	43.33	VRF148A
	170	16	—	VRF150-ND	63.66	52.60	44.29	VRF150
	170	16	—	VRF151-ND	65.18	53.85	45.35	VRF151
7	170	36	—	VRF151G-ND	162.29	134.07	112.90	VRF151G
8	170	60	—	VRF154FL-ND	421.66	348.33	293.33	VRF154FL
	170	60	—	VRF157FL-ND	455.68	376.43	317.00	VRF157FL
9	170	40	—	VRF2933-ND	153.34	126.68	106.68	VRF2933

(Continued)

Power Modules

VDS Maximum	I_D Average (A)	RDS (on) Maximum Ω	Digi-Key Part No.	Price Each 1	25	100	Microsemi Part No.
100	70	0.021	APTM10HM19FT3G-ND ***NEW!***	83.70	69.15	58.23	APTM10HM19FT3G
100	278	0.005	APTM10HM05FG-ND ***NEW!***	320.28	264.58	222.80	APTM10HM05FG
100	495	0.0025	APTM10AM02FG-ND	316.14	261.16	219.92	APTM10AM02FG
100	860	0.0016	APTM10UM01FAG-ND	291.18	240.54	202.56	APTM10UM01FAG
200	317	0.006	APTM20DAM05G-ND ***NEW!***	221.47	182.96	154.07	APTM20DAM05G
200	372	0.005	APTM20AM04FG-ND	365.88	302.26	254.53	APTM20AM04FG
200	372	0.005	APTM20DUM04G-ND ***NEW!***	354.68	293.00	246.74	APTM20DUM04G
500	26	0.168	APTM50H14FT3G-ND ***NEW!***	95.75	79.10	66.61	APTM50H14FT3G
500	46	0.090	APTM50HM75STG-ND ***NEW!***	181.22	149.71	126.07	APTM50HM75STG
500	51	0.078	APTM50HM65FT3G-ND ***NEW!***	168.11	138.88	116.95	APTM50HM65FT3G
500	90	0.045	APTM50AM38STG-ND ***NEW!***	195.32	161.35	135.88	APTM50AM38STG
500	99	0.039	APTM50AM35FTG-ND ***NEW!***	189.57	156.60	131.88	APTM50AM35FTG
500	150	0.028	APTM50AM24SG-ND	330.63	273.13	230.00	APTM50AM24SG
500	497	0.010	APTM50UM09FAG-ND	449.72	371.51	312.85	APTM50UM09FAG
600	72	0.035	APTC60AM35SCTG-ND	308.78	255.08	214.80	APTC60AM35SCTG
600	72	0.035	APTC60DDAM35T3G-ND ***NEW!***	96.81	79.98	67.35	APTC60DDAM35T3G
600	72	0.035	APTC60HM35T3G-ND ***NEW!***	138.90	114.75	96.63	APTC60HM35T3G
600	72	0.035	APTC60TDUM35PG-ND ***NEW!***	256.59	211.97	178.50	APTC60TDUM35PG
1000	43	0.210	APTM100H18FG-ND ***NEW!***	387.87	320.42	269.83	APTM100H18FG
1000	65	0.156	APTM100A13SCG-ND	731.93	604.64	509.17	APTM100A13SCG
1000	65	0.156	APTM100A13SG-ND	332.90	275.01	231.59	APTM100A13SG
1000	145	0.078	APTM100UM65SAG-ND	364.90	301.44	253.84	APTM100UM65SAG
1000	215	0.052	APTM100UM45FAG-ND	479.41	396.04	333.51	APTM100UM45FAG
1200	8	1.68	APTM120H140FT1G-ND ***NEW!***	93.50	77.24	65.04	APTM120H140FT1G
1200	34	0.348	APTM120H29FG-ND	404.94	334.52	281.70	APTM120H29FG
1200	60	0.175	APTM120DU15G-ND ***NEW!***	389.64	321.88	271.06	APTM120DU15G
1200	116	0.12	APTM120U10SAG-ND	369.50	305.24	257.04	APTM120U10SAG

RF Power FET

Dimensions in mm

Fig. 1 — TO-39

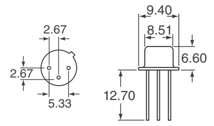

Fig. 2 — PowerMacro

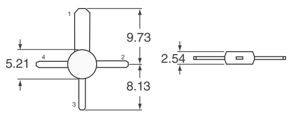

Fig. 3 — Macro X

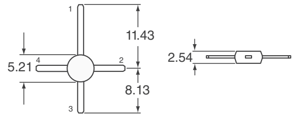

Fig. 4 — TO-72

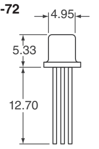

Fig. 5 — 8-SOIC

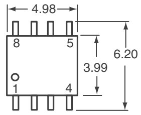

Fig.	V_{CEO} Maximum	I_C Average (mA)	HFE (Minimum)	Digi-Key Part No.	Pricing 1	25	100	Microsemi Part No.
1	70	400	15	MRF544-ND	10.25	219.60	695.40	MRF544
2	16	500	30	MRF553G-ND	4.56	102.60	342.00	MRF553G
	16	500	50	MRF555-ND	4.24	95.40	318.00	MRF555
	16	500	50	MRF555TCT-ND†	4.24	95.40	318.00	MRF555T
	16	500	50	MRF555TTR-ND‡		2120.00/1,000		MRF555T
3	15	200	90	MRF581A-ND	3.36	75.60	252.00	MRF581A
	16	150	30	MRF559G-ND	3.12	70.20	234.00	MRF559G
	18	200	50	MRF581G-ND	2.48	55.80	186.00	MRF581G
4	15	30	30	MRF904-ND	14.64	329.40	1098.00	MRF904
5	15	200	50	MRF5812GR1CT-ND†	3.24	72.90	243.00	MRF5812GR1
	15	200	50	MRF5812GR1TR-ND‡		1012.50/500		MRF5812GR1
	15	200	50	MRF5812R2CT-ND†	3.24	72.90	243.00	MRF5812R2
	15	200	50	MRF5812R2TR-ND‡		3543.75/2,500		MRF5812R2

† Cut Tape ‡ Tape and Reel

Schottky Barrier Rectifiers

Dimensions in mm

Fig. 1 — POWERMITE®1

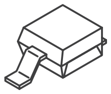

Fig. 2 — POWERMITE®3

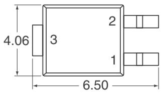

Fig. 3 — PowerDI™5

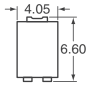

Fig. 4 — TO-247/T-Max®

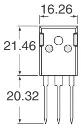

Fig. 5 — TO-264

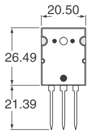

Fig. 6 — SOT-227

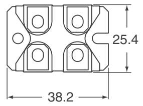

Fig.	Forward Average Rectified Current (A)	Working Peak Reverse Voltage (V)	Maximum Forward Voltage @ Amps (V)	(A)	Maximum dc Reverse Current @ VRWM (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	1.0	20	0.65	3.0	0.4	UPS120E3CT-ND	.24	2.15	17.94	UPS120E3TR-ND	3,000	149.50/M
	1.0	20	0.65	3.0	1.0	UPS5817E3CT-ND	.24	2.15	17.94	UPS5817E3TR-ND	3,000	149.50/M
	1.0	40	0.85	3.0	1.0	UPS5819E3CT-ND	.27	2.39	19.89	UPS5819E3TR-ND	3,000	165.75/M
2	3.0	40	0.50	3.0	0.5	UPS340E3CT-ND	.69	6.25	52.05	UPS340E3TR-ND	5,000	390.38/M
	3.0	60	0.63	3.5	0.2	UPS360E3CT-ND	1.52	13.68	114.00	—	—	—
	3.0	100	0.76	3.0	0.2	UPS3100E3CT-ND	.78	6.98	58.20	UPS3100E3TR-ND	5,000	436.50/M
	5.0	40	0.54	5.0	0.5	UPS540E3CT-ND	1.76	15.84	132.00	—	—	—
	5.0	60	0.69	5.0	0.2	UPS560E3CT-ND	1.84	16.56	138.00	—	—	—
	5.0	100	0.81	5.0	0.2	UPS5100E3CT-ND	.77	6.89	57.39	UPS5100E3TR-ND	5,000	430.43/M
	5.0	100	0.81	5.0	0.2	UPS5100HE3CT-ND	2.00	18.00	150.00	UPS5100HE3TR-ND	5,000	1125.00/M
	7.0	60	0.60	7.0	0.1	UPS760E3CT-ND	1.06	9.55	79.59	UPS760E3TR-ND	5,000	596.93/M

(Continued)

Schottky Barrier Rectifiers *(Cont.)*

Fig.	Forward Average Rectified Current (A)	Working Peak Reverse Voltage (V)	Maximum Forward Voltage @ Amps (V)	Maximum Forward Voltage @ Amps (A)	Maximum dc Reverse Current @ VRWM (mA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
2	8.0	35	0.51	8.0	1.4	UPS835LCT-ND	1.84	16.56	138.00	UPS835LTR-ND	5,000	1035.00/M
	8.0	40	0.37	3.0	5.0	UPS840E3MSCT-ND	1.12	10.04	83.64	—	—	—
	10.0	40	0.51	10.0	0.3	UPS1040E3CT-ND	1.39	12.49	104.10	UPS1040E3TR-ND	5,000	780.75/M
3	3.0	200	0.78	3.0	0.01	UPDS3200CT-ND	3.00	27.00	225.00	—	—	—

Fig.	IF (A)	VR (V)	VF (V)	VF (A)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Microsemi Part No.
4	25	200	0.83	15	APT15S20BCTG-ND	6.08	136.80	456.00	APT15S20BCTG
	45	200	0.85	30	APT30S20BCTG-ND	8.88	199.80	666.00	APT30S20BCTG
	45	200	0.85	30	APT30S20BG-ND	5.24	117.90	393.00	APT30S20BG
	75	200	0.90	60	APT60S20BG-ND	7.88	177.30	591.00	APT60S20BG
	75	200	0.90	60	APT60S20B2CTG-ND	10.56	226.20	716.30	APT60S20B2CTG
	120	200	0.95	100	APT100S20BG-ND	8.06	172.80	547.20	APT100S20BG
5	120	200	0.95	100	APT100S20LCTG-ND	16.04	343.80	1088.70	APT100S20LCTG
6	75	200	0.90	60	APT2X61S20J-ND	23.18	478.80	1612.80	APT2X61S20J
	120	200	0.95	100	APT2X101S20J-ND	27.05	558.60	1881.60	APT2X101S20J

Ultra Fast Rectifiers

Dimensions in mm

Fig. 1 — TO-247 (3 Pin)

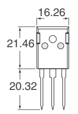

Fig. 2 — TO-247 (2 Pin)

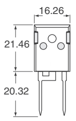

Fig. 3 — TO-220

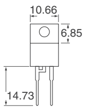

Fig.	VR (V)	IF (A)	IFSM (A)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100
1	200	30	320	APT30D20BCAG-ND	8.84	198.90	663.00
	200	30	320	APT30D20BCTG-ND	8.48	190.80	636.00
	300	30	320	APT30D30BCTG-ND	8.84	198.90	663.00
	400	30	320	APT30D40BCTG-ND	8.48	190.80	636.00
	600	13	110	APT15DS60BG-ND†	6.96	156.60	522.00
	600	14	110	APT15D60BCAG-ND	6.16	138.60	462.00
	600	15	110	APT15D60BCTG-ND	5.84	131.40	438.00
	600	15	110	APT15DQ60BCTG-ND	4.68	105.30	351.00
	600	27	320	APT30D60BHBG-ND	8.84	198.90	663.00
	600	30	320	APT30D60BCTG-ND	8.48	190.80	636.00
	600	30	320	APT30DQ60BCTG-ND	5.88	132.30	441.00
	600	40	320	APT40DQ60BCTG-ND	6.80	153.00	510.00
	600	60	600	APT60DQ60BCTG-ND	8.52	191.70	639.00
	1000	15	80	APT15D100BCTG-ND	7.16	161.10	537.00
	1000	15	80	APT15D100BHBG-ND	7.56	170.10	567.00

Fig.	VR (V)	IF (A)	IFSM (A)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100
1	1000	15	80	APT15DQ100BCTG-ND	5.72	128.70	429.00
	1000	18	210	APT30D100BHBG-ND	7.56	162.00	513.00
	1000	30	210	APT30D100BCTG-ND	7.28	156.00	494.00
	1200	30	210	APT30D120BCTG-ND	8.74	187.20	592.80
2	600	15	110	APT15D60BG-ND	3.76	84.60	282.00
	200	30	320	APT30D20BG-ND	5.08	114.30	381.00
	200	60	600	APT60D20BG-ND	7.92	178.20	594.00
	400	30	320	APT30D40BG-ND	5.08	114.30	381.00
	600	30	320	APT30D60BG-ND	5.08	114.30	381.00
	600	40	320	APT40DQ60BG-ND	4.08	91.80	306.00
	600	60	600	APT60D60BG-ND	7.92	178.20	594.00
	600	75	600	APT75DQ60BG-ND	6.32	142.20	474.00
	1000	15	80	APT15DQ100BG-ND	3.68	82.80	276.00
	1000	30	210	APT30D100BG-ND	6.16	138.60	462.00
	1000	40	210	APT40DQ100BG-ND	4.92	110.70	369.00
	1000	60	540	APT60D100BG-ND	9.68	217.80	726.00
	1000	60	540	APT60DQ100BG-ND	6.44	144.90	483.00
	1000	75	540	APT75DQ100BG-ND	7.76	174.60	582.00
	1200	15	110	APT15DQ120BG-ND	3.76	84.60	282.00
	1200	30	210	APT30D120BG-ND	7.40	166.50	555.00
	1200	30	210	APT30DQ120BG-ND	5.40	121.50	405.00
	1200	40	210	APT40DQ120BG-ND	5.92	133.20	444.00
	1200	60	540	APT60D120BG-ND	8.20	175.80	556.70
	1200	75	540	APT75DQ120BG-ND	9.36	210.60	702.00
3	1000	15	80	APT15D100KG-ND	2.64	59.40	198.00
	1200	30	210	APT30DQ120KG-ND	4.08	91.80	306.00
	600	8	110	APT8DQ60KG-ND	1.56	35.10	117.00

† Pin 2 Missing

Zener Diodes

500mW Series, DO-35 Silicon Zener Diodes, 1N5221 — 1N5275

Nominal (Value)	Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)
21	2.4	20	30	4.7	20	48	18	7.0	55	28	4.5	66	68	1.8
24	2.8	20	33	6.0	20	49	19	6.6	60	42	3.0	67	75	1.7
26	3.3	20	36	7.5	20	51	24	5.6	61	47	2.7	68	82	1.5
27	3.6	20	40	10	20	52	24	5.2	62	51	2.5	72	110	1.1
28	3.9	20	42	12	20	53	25	5.0	64	60	2.1	74	130	0.95
29	4.3	20	47	17	7.4	54	27	4.6	65	62	2.0	75	140	0.90

Dimensions in mm

Fig. 1 — DO-35, 500mW

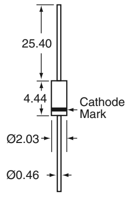

Fig. 2 — DO-41, 1W/2W

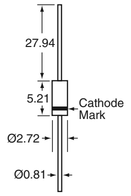

1W Series, DO-41 Glass Zener Diodes 1N4741A — 1N4763A

(Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)
41	11	23
43	13	19
56	47	5.5
63	91	2.8

2W Series, DO-41 Silicon Zener Diodes, 2EZ3.6D5 — 2EZ200D5

Nominal (Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)	Nominal (Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)
3.6	3.6	139	17	17	29.4	43	43	11.6	91	91	5.5
4.3	4.3	116	18	18	27.8	47	47	10.6	110	110	4.5
6.2	6.2	80.5	19	19	26.3	51	51	9.8	130	130	3.8
7.5	7.5	66.5	22	22	22.8	56	56	9.0	180	180	2.8
12	12	41.5	27	27	18.5	62	62	8.1	200	200	2.5
13	13	38.5	33	33	15.1	75	75	6.7			
15	15	33.4	39	39	12.8	82	82	6.1			

Fig.	DC Power Dissipation	Voltage Range (Value) See Chart	Digi-Key Part No.*	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.*	Tape and Reel Pricing 4,000	Tape and Reel Pricing 10,000
1	500 mW	2.4V ~ 140V	1N52(Value)ADO-35MSCT-ND	1.20	.84	.60	1N52(Value)ADO-35MSTR-ND	—	963.00/M
2	1 W	11V ~ 91V	1N47(Value)AGMSCT-ND	.25	.17	.14	1N47(Value)AGPMSTR-ND	3656.25/M	—
	2 W	3.6V ~ 200V	2EZ(Value)D5MSCT-ND	1.42	.95	.76	2EZ(Value)D5MSTR-ND	2019.38/M	—

* For complete part number, substitute corresponding value from chart for (Value).

RENESAS Mosfets

Digi-Reel® RoHS COMPLIANT

Features: • Power switching • Capable of 4.5V gate drive • Low drive current • High density mounting • Low on-resistance

LFPAK

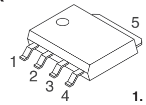

1. Source
2. Source
3. Source
4. Gate
5. Drain

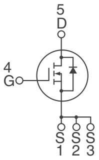

WPAK

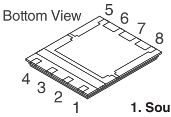

1. Source
2. Source
3. Source
4. Gate

5. Drain
6. Drain
7. Drain
8. Drain

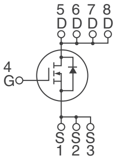

SOP-8

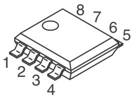

1. Source
2. Source
3. Source
4. Gate

5. Drain
6. Drain
7. Drain
8. Drain

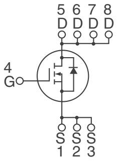

Pack-age	Maximum Ratings				RDS(on) (mΩ)				Qgd (nC)	Qg (nC)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Renesas Part No.
	VDSS (V)	VGSS (V)	ID (A)	Pch (W)	VGS=4.5V Typ.	VGS=4.5V Max.	VGS=10V Typ.	VGS=10V Max.				1	25	100		Qty.	Pricing	
											N-Channel							
LFPAK	30	±20	60	65	2.1	2.9	1.6	2.1	8.8	42	RJK0328DPB-00#J0CT-ND	2.17	41.85	151.90	RJK0328DPB-00#J0TR-ND	2,500	837.00/M	RJK0328DPB-00#J0
	30	±20	55	60	2.4	3.4	1.8	2.3	7.3	35	RJK0329DPB-00#J0CT-ND	1.96	37.80	137.20	RJK0329DPB-00#J0TR-ND	2,500	756.00/M	RJK0329DPB-00#J0
	30	±20	45	55	2.8	3.9	2.1	2.7	5.8	27	RJK0330DPB-00#J0CT-ND	1.86	36.75	132.30	RJK0330DPB-00#J0TR-ND	2,500	686.00/M	RJK0330DPB-00#J0
	30	±20	40	50	3.5	4.9	2.6	3.4	4.8	22	RJK0331DPB-00#J0CT-ND	1.63	32.25	116.10	RJK0331DPB-00#J0TR-ND	2,500	602.00/M	RJK0331DPB-00#J0
	30	±20	35	45	5.0	7.0	3.6	4.7	3.0	14	RJK0332DPB-00#J0CT-ND	1.37	27.00	97.20	RJK0332DPB-00#J0TR-ND	2,500	504.00/M	RJK0332DPB-00#J0
	30	+16/-12	30	45	10	13	6.7	8.0	1.5	8	RJK0305DPB-00#J0CT-ND	1.33	26.25	94.50	RJK0305DPB-00#J0TR-ND	2,500	588.00/M	RJK0305DPB-00#J0
WPAK	30	±20	65	65	1.9	2.7	1.5	2.0	10.5	49	RJK0346DPA-00#J0CT-ND	2.21	42.53	154.35	RJK0346DPA-00#J0TR-ND	2,500	851.00/M	RJK0346DPA-00#J0
	30	±20	50	55	2.5	3.5	1.9	2.5	7	34	RJK0348DPA-00#J0CT-ND	1.86	36.75	132.30	RJK0348DPA-00#J0TR-ND	2,500	686.00/M	RJK0348DPA-00#J0
	30	±20	45	50	3.1	4.3	2.4	3.1	5.3	25	RJK0349DPA-00#J0CT-ND	1.60	31.50	113.40	RJK0349DPA-00#J0TR-ND	2,500	588.00/M	RJK0349DPA-00#J0
	30	±20	40	45	4.3	6.0	3.2	4.2	3.7	17	RJK0351DPA-00#J0CT-ND	1.33	26.25	94.50	RJK0351DPA-00#J0TR-ND	2,500	490.00/M	RJK0351DPA-00#J0
	30	±20	35	40	5.4	7.6	4.0	5.2	3.0	14	RJK0353DPA-00#J0CT-ND	1.22	24.00	86.40	RJK0353DPA-00#J0TR-ND	2,500	448.00/M	RJK0353DPA-00#J0
	30	±20	30	25	11.8	16.5	8.2	10.7	1.4	6.3	RJK0355DPA-00#J0CT-ND	1.06	20.40	72.00	RJK0355DPA-00#J0TR-ND	2,500	348.00/M	RJK0355DPA-00#J0
	30	±20	35	35	8.0	11.2	6.0	7.8	2.2	10	RJK0364DPA-00#J0CT-ND	1.18	23.25	83.70	RJK0364DPA-00#J0TR-ND	2,500	434.00/M	RJK0364DPA-00#J0
	30	±20	30	30	9.6	13.4	7.0	9.1	1.7	7.6	RJK0365DPA-00#J0CT-ND	1.06	21.00	75.60	RJK0365DPA-00#J0TR-ND	2,500	392.00/M	RJK0365DPA-00#J0
	30	±20	25	30	12.0	16.8	8.5	11.1	1.5	6.8	RJK0366DPA-00#J0CT-ND	1.03	20.25	72.90	RJK0366DPA-00#J0TR-ND	2,500	378.00/M	RJK0366DPA-00#J0
	30	±20	20	25	16	22.4	11	14.3	1.3	6.2	RJK0368DPA-00#J0CT-ND	1.06	20.40	72.00	RJK0368DPA-00#J0TR-ND	2,500	348.00/M	RJK0368DPA-00#J0
	30	±20	65	60	2.1	2.9	1.7	2.2	11.3	54	RJK0390DPA-00#J53CT-ND ***NEW!***	1.52	30.05	108.19	RJK0390DPA-00#J53TR-ND ***NEW!***	3,000	561.00/M	RJK0390DPA-00#J53
	30	±20	50	50	2.8	3.9	2.2	2.9	7.4	34	RJK0391DPA-00#J53CT-ND ***NEW!***	1.12	22.10	79.55	RJK0391DPA-00#J53TR-ND ***NEW!***	3,000	412.00/M	RJK0391DPA-00#J53
	30	±20	45	45	3.4	4.8	2.7	3.5	5.9	26	RJK0392DPA-00#J53CT-ND ***NEW!***	.99	19.45	70.01	RJK0392DPA-00#J53TR-ND ***NEW!***	3,000	363.00/M	RJK0392DPA-00#J53
	30	±20	40	40	4.2	5.9	3.3	4.3	4.7	21	RJK0393DPA-00#J53CT-ND ***NEW!***	.99	19.03	67.18	RJK0393DPA-00#J53TR-ND ***NEW!***	3,000	325.00/M	RJK0393DPA-00#J53
	30	±20	35	35	5.3	7.4	4.1	5.3	3.7	15.5	RJK0394DPA-00#J53CT-ND ***NEW!***	.88	17.03	60.11	RJK0394DPA-00#J53TR-ND ***NEW!***	3,000	291.00/M	RJK0394DPA-00#J53
	30	±20	30	30	7.6	10.6	5.9	7.7	2.6	11	RJK0395DPA-00#J53CT-ND ***NEW!***	.78	15.03	53.04	RJK0395DPA-00#J53TR-ND ***NEW!***	3,000	256.00/M	RJK0395DPA-00#J53
	30	±20	30	28	9.0	12.6	6.9	9.0	2.2	9	RJK0396DPA-00#J53CT-ND ***NEW!***	.73	14.03	49.50	RJK0396DPA-00#J53TR-ND ***NEW!***	3,000	239.00/M	RJK0396DPA-00#J53
	30	±20	30	25	10.4	14.6	7.8	10.1	1.9	7.4	RJK0397DPA-00#J53CT-ND ***NEW!***	.67	13.02	45.96	RJK0397DPA-00#J53TR-ND ***NEW!***	3,000	222.00/M	RJK0397DPA-00#J53
	30	±20	30	30	7.7	10.7	6.0	7.8	2.6	11	RJK03B7DPA-00#J53CT-ND ***NEW!***	.78	15.03	53.04	RJK03B7DPA-00#J53TR-ND ***NEW!***	3,000	256.00/M	RJK03B7DPA-00#J53
	30	±20	30	28	9.3	12.9	7.0	9.3	2.2	9	RJK03B8DPA-00#J53CT-ND ***NEW!***	.73	14.03	49.50	RJK03B8DPA-00#J53TR-ND ***NEW!***	3,000	239.00/M	RJK03B8DPA-00#J53
	30	±20	30	25	10.9	15.1	8.3	10.6	1.9	7.4	RJK03B9DPA-00#J53CT-ND ***NEW!***	.67	13.02	45.96	RJK03B9DPA-00#J53TR-ND ***NEW!***	3,000	222.00/M	RJK03B9DPA-00#J53
	30	±20	70	65	1.8	2.5	1.5	2.0	13.7	66	RJK03C0DPA-00#J53CT-ND ***NEW!***	1.70	33.59	120.92	RJK03C0DPA-00#J53TR-ND ***NEW!***	3,000	627.00/M	RJK03C0DPA-00#J53
SOP-8	30	±20	22	2.5	3.2	4.5	2.6	3.4	7.0	34	RJK0348DSP-00#J0CT-ND	1.75	34.50	124.20	RJK0348DSP-00#J0TR-ND	2,500	644.00/M	RJK0348DSP-00#J0
	30	±20	20	2.5	3.6	5.0	2.9	3.8	5.3	25	RJK0349DSP-00#J0CT-ND	1.44	28.50	102.60	RJK0349DSP-00#J0TR-ND	2,500	532.00/M	RJK0349DSP-00#J0
	30	±20	18	2.0	5.5	7.0	4.3	5.6	3.4	16	RJK0352DSP-00#J0CT-ND	1.18	23.25	83.70	RJK0352DSP-00#J0TR-ND	2,500	434.00/M	RJK0352DSP-00#J0
	30	±20	18	2.0	5.9	8.3	4.5	5.9	3.0	15	RJK0353DSP-00#J0CT-ND	1.06	21.00	75.60	RJK0353DSP-00#J0TR-ND	2,500	392.00/M	RJK0353DSP-00#J0
	30	±20	16	2.0	7.5	10.5	5.4	7.0	2.5	12	RJK0354DSP-00#J0CT-ND	.95	18.75	67.50	RJK0354DSP-00#J0TR-ND	2,500	350.00/M	RJK0354DSP-00#J0
	30	±20	12	1.8	12.0	16.8	8.5	11.1	1.4	6.0	RJK0355DSP-00#J0CT-ND	.92	17.85	63.00	RJK0355DSP-00#J0TR-ND	2,500	305.00/M	RJK0355DSP-00#J0
	30	±20	11	2.0	12.5	17.5	9.0	11.7	1.5	6.8	RJK0366DSP-00#J0CT-ND	.88	17.00	60.00	RJK0366DSP-00#J0TR-ND	2,500	290.00/M	RJK0366DSP-00#J0
	30	±20	9	1.8	16	22.5	12	15.6	1.2	5.6	RJK0369DSP-00#J0CT-ND	.79	15.30	54.00	RJK0369DSP-00#J0TR-ND	2,500	261.00/M	RJK0369DSP-00#J0
	30	±20	8	1.8	19	27	14	19	1.0	3.8	RJK0371DSP-00#J0CT-ND	.75	14.45	51.00	RJK0371DSP-00#J0TR-ND	2,500	247.00/M	RJK0371DSP-00#J0

Integrated Driver-Mosfet

Digi-Reel® RoHS COMPLIANT

Description	Output Current (A) max.	Package	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 2,500	Renesas Part No.
				1	25	100			
High-Side MOSFET, Low-Side MOSFET and MOSFET Driver in a single package	40	56-QFN	R2J20602NP#G3CT-ND	9.28	192.50	700.00	R2J20602NP#G3TR-ND	4550.00/M	R2J20602NP#G3

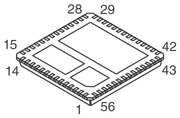

ROHM SEMICONDUCTOR Mosfets

Digi-Reel® RoHS COMPLIANT

Dimensions in (mm)

8-SOIC

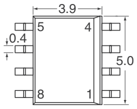

SOT-23

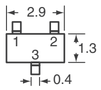

SOT-89

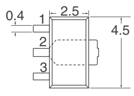

Package	VDSS (V)	Typical RDS (on)	@ VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
								1	25	100		Qty.	Pricing	
							N-Channel							
8-SOIC	30	27mΩ	4.5	6.5	26	2	RSS065N03TBCT-ND	.75	15.03	45.09	RSS065N03TBTR-ND	2,500	238.00/M	RSS065N03TB
	30	20mΩ	10	7	—	2	RRS070N03TB1CT-ND	1.04	20.70	62.10	RRS070N03TB1TR-ND	2,500	328.00/M	RRS070N03TB1
	30	15mΩ	4.5	9	36	2	RSS090N03TBCT-ND	.75	15.03	45.09	RSS090N03TBTR-ND	2,500	238.00/M	RSS090N03TB
	30	12.5mΩ	4.5	10	40	2	RSS100N03TBCT-ND	.87	17.37	52.11	RSS100N03TBTR-ND	2,500	275.00/M	RSS100N03TB
	30	11mΩ	10	10	—	2	RRS100N03TB1CT-ND	1.01	21.94	67.50	RRS100N03TB1TR-ND	2,500	359.00/M	RRS100N03TB1
	30	10.3mΩ	4.5	11	44	2	RSS110N03TBCT-ND	1.35	29.17	89.75	RSS110N03TBTR-ND	2,500	477.00/M	RSS110N03TB
	30	9.4mΩ	4.5	12	48	2	RSS120N03TBCT-ND	1.10	21.96	65.88	RSS120N03TBTR-ND	2,500	348.00/M	RSS120N03TB
	30	9mΩ	10	11	—	2	RRS110N03TB1CT-ND	1.50	32.50	100.00	RRS110N03TB1TR-ND	2,500	532.00/M	RRS110N03TB1
	30	8.6mΩ	4.5	12.5	50	2	RSS125N03TBCT-ND	1.54	32.06	107.73	RSS125N03TBTR-ND	2,500	667.00/M	RSS125N03TB
	30	7.5mΩ	10	12.5	—	2	RRS125N03TB1CT-ND	1.61	34.94	107.50	RRS125N03TB1TR-ND	2,500	572.00/M	RRS125N03TB1
	30	7.4mΩ	4.5	13	52	2	RSS130N03TBCT-ND	1.62	33.69	113.19	RSS130N03TBTR-ND	2,500	701.00/M	RSS130N03TB
	30	7mΩ	10	13	—	2	RRS130N03TB1CT-ND	1.80	39.00	120.00	RRS130N03TB1TR-ND	2,500	638.00/M	RRS130N03TB1
	30	6mΩ	4.5	14	56	2	RSS140N03TBCT-ND	1.44	31.28	96.25	RSS140N03TBTR-ND	2,500	512.00/M	RSS140N03TB
	45	35mΩ	4	7	28	2	RSS070N05FU6TBCT-ND	1.49	32.18	99.00	RSS070N05FU6TBTR-ND	2,500	527.00/M	RSS070N05FU6TB
	45	25mΩ	4	8.5	34	2	RSS085N05FU6TBCT-ND	1.76	38.11	117.25	RSS085N05FU6TBTR-ND	2,500	624.00/M	RSS085N05FU6TB
	45	21mΩ	4	9.5	38	2	RSS095N05FU6TBCT-ND	1.70	35.50	119.28	RSS095N05FU6TBTR-ND	2,500	738.00/M	RSS095N05FU6TB
	60	35mΩ	4	6.5	—	2	RSS065N06FU6TBCT-ND	1.49	32.34	99.50	RSS065N06FU6TBTR-ND	2,500	529.00/M	RSS065N06FU6TB
SOT-23	60	7.5Ω	5	0.115	0.8	0.225	RK7002T116CT-ND	.65	9.63	25.03	RK7002T116TR-ND	3,000	90.00/M	RK7002T116
	60	1.1Ω	4	0.3	1.2	0.2	RK7002AT116CT-ND	.86	12.60	32.76	RK7002AT116TR-ND	3,000	118.00/M	RK7002AT116
SOT-89	30	0.09Ω	4	3	—	0.5	RHP030N03T100CT-ND	.76	15.10	45.30	RHP030N03T100TR-ND	1,000	242.00	RHP030N03T100
	60	0.16Ω	4	2	—	0.5	RJP020N06T100CT-ND	1.02	20.43	61.29	RJP020N06T100TR-ND	1,000	352.00	RJP020N06T100
	60	0.24Ω	4	2	—	0.5	RHP020N06T100CT-ND	.80	15.93	47.79	RHP020N06T100TR-ND	1,000	274.00	RHP020N06T100
	60	0.25Ω	4	2	8	0.5	2SK3065T100CT-ND	.83	16.50	49.50	2SK3065T100TR-ND	1,000	264.00	2SK3065T100

* Maximum

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM SEMICONDUCTOR

Mosfets *(Cont.)*

Package	VDSS (V)	Typical RDS @ (on)	VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
								1	25	100		Qty.	Pricing	
SOT-323	30	5Ω	4	0.1	0.4	0.2	2SK3018T106CT-ND	.42	7.13	19.76	2SK3018T106TR-ND	3,000	76.00/M	2SK3018T106
	30	1.4Ω	4	0.3	—	0.2	RHU003N03T106CT-ND	.48	8.25	22.88	RHU003N03T106TR-ND	3,000	88.00/M	RHU003N03T106
	30	0.9Ω	4	0.3	—	0.2	RJU003N03T106CT-ND	.40	6.75	18.72	RJU003N03T106TR-ND	3,000	72.00/M	RJU003N03T106
	60	2.8Ω	4	0.2	0.8	0.2	RHU002N06T106CT-ND	.54	7.95	20.67	RHU002N06T106TR-ND	3,000	75.00/M	RHU002N06T106
	60	1.7Ω	4	0.2	—	0.2	RJU002N06T106CT-ND	.52	8.94	24.80	RJU002N06T106TR-ND	3,000	95.00/M	RJU002N06T106
SOT-346	30	2.8Ω	4	0.2	0.8	0.2	2SK2731T146CT-ND	.47	8.59	24.20	2SK2731T146TR-ND	3,000	99.00/M	2SK2731T146
	30	0.43Ω	4	0.5	—	0.2	RJK005N03T146CT-ND	.47	8.59	24.20	RJK005N03T146TR-ND	3,000	99.00/M	RJK005N03T146
	30	0.58Ω	4	0.5	—	0.2	RHK005N03T146CT-ND	.42	8.00	23.04	RHK005N03T146TR-ND	3,000	109.00/M	RHK005N03T146
	60	1.1Ω	4	0.3	—	0.2	RHK003N06T146CT-ND	.47	9.13	26.28	RHK003N06T146TR-ND	3,000	124.00/M	RHK003N06T146
SOT-416	30	5Ω	4	0.1	0.4	0.15	2SK3019TLCT-ND	.42	7.13	19.76	2SK3019TLTR-ND	3,000	76.00/M	2SK3019TL
CPT-3, D-PAK	60	0.15Ω*	10	8	20	20	RK3055ETLCT-ND	1.12	22.32	66.96	RK3055ETLTR-ND	2,500	353.00/M	RK3055ETL
	60	0.17Ω	4	5	20	20	2SK2503TLCT-ND	1.16	23.22	69.66	2SK2503TLTR-ND	2,500	368.00/M	2SK2503TL
	60	0.4Ω	4	2	8	20	2SK2094TLCT-ND	1.10	21.96	65.88	2SK2094TLTR-ND	2,500	591.00/M	2SK2094TL
	60	0.15Ω*	10	8	20	20	RK3055ETLCT-ND	1.12	22.32	66.96	RK3055ETLTR-ND	2,500	353.00/M	RK3055ETL
	100	0.25Ω	4	5	20	20	2SK2504TLCT-ND	1.16	23.22	69.66	2SK2504TLTR-ND	2,500	368.00/M	2SK2504TL
	100	44mΩ	4.5	20	80	20	RSD200N10TLCT-ND	1.66	33.10	99.30	RSD200N10TLTR-ND	2,500	847.00/M	RSD200N10TL
	200	0.7Ω	10	3	12	20	2SK2887TLCT-ND	1.68	36.40	112.00	2SK2887TLTR-ND	2,500	596.00/M	2SK2887TL
	200	0.72Ω	10	5	20	20	RDD050N20TLCT-ND	1.76	38.03	117.00	RDD050N20TLTR-ND	2,500	622.00/M	RDD050N20TL
	500	3Ω	10	2	6	20	2SK2715TLCT-ND	.90	17.91	53.73	2SK2715TLTR-ND	2,500	284.00/M	2SK2715TL
	600	4.4Ω	10	2	6	20	2SK3050TLCT-ND	.98	19.62	58.86	—	—	—	2SK3050TL
TO-220FM, TO-220FN	60	0.11Ω	4	10	40	30	2SK2095N-ND	2.40	50.00	168.00	—	—	—	2SK2095N
	200	0.12Ω	10	15	45	40	RDN150N20-ND	1.50	32.50	100.00	—	—	—	RDN150N20
	200	0.12Ω	10	15	45	40	RDN150N20FU6-ND ***NEW!***	2.25	46.88	157.50	—	—	—	RDN150N20FU6
	200	0.27Ω	10	10	40	35	RDN100N20-ND	.98	21.13	65.00	—	—	—	RDN100N20
	200	0.27Ω	10	10	40	35	RDN100N20FU6-ND ***NEW!***	1.76	38.19	117.50	—	—	—	RDN100N20FU6
	200	0.55Ω	10	5	20	30	RDN050N20-ND	1.04	20.88	62.64	—	—	—	RDN050N20
	200	0.55Ω	10	5	20	30	RDN050N20FU6-ND ***NEW!***	1.55	33.56	103.25	—	—	—	RDN050N20FU6
	250	0.16Ω	10	12	48	40	RDN120N25-ND	1.56	32.50	109.20	—	—	—	RDN120N25
	250	0.16Ω	10	12	48	40	RDN120N25FU6-ND ***NEW!***	2.25	46.88	157.50	—	—	—	RDN120N25FU6
	250	0.38Ω	10	8	32	35	RDN080N25-ND	1.09	23.56	72.50	—	—	—	RDN080N25
	250	0.38Ω	10	8	32	35	RDN080N25FU6-ND ***NEW!***	1.91	41.44	127.50	—	—	—	RDN080N25FU6
	450	1Ω	10	5	20	30	2SK2713-ND	1.76	38.19	117.50	—	—	—	2SK2713
	450	0.85Ω	10	7	28	30	2SK2299N-ND	1.71	35.63	119.70	—	—	—	2SK2299N
	500	1.5Ω	10	5	20	35	RDX050N50FU6-ND	2.77	57.69	193.83	—	—	—	RDX050N50FU6
	500	1.1Ω	10	5	20	30	2SK2793-ND	2.42	50.50	169.68	—	—	—	2SK2793
	500	0.38Ω	10	13	52	50	R5013ANXFU6-ND	3.51	76.38	227.50	—	—	—	R5013ANXFU6
	500	0.5Ω	10	12	48	45	RDX120N50FU6-ND	5.37	116.91	348.25	—	—	—	RDX120N50FU6
	500	0.85Ω	10	8	32	40	RDX080N50FU6-ND	3.46	75.20	224.00	—	—	—	RDX080N50FU6
	600	2.1Ω	10	4.5	18	35	RDX045N60FU6-ND	2.77	57.69	193.83	—	—	—	RDX045N60FU6
	600	1.2Ω	10	6	24	40	RDX060N60FU6-ND	3.46	75.20	224.00	—	—	—	RDX060N60FU6
	600	1Ω	10	7	28	30	2SK2740-ND	2.58	53.69	180.39	—	—	—	2SK2740
	600	0.65Ω	10	10	40	45	RDX100N60FU6-ND	5.37	116.91	348.25	—	—	—	RDX100N60FU6
TSMT-3	20	25mΩ	4.5	4	8	1	RUR040N02TLCT-ND	.60	11.25	33.75	RUR040N02TLTR-ND	3,000	195.00/M	RUR040N02TL
	30	74mΩ	4.5	2.5	10	1	RSR025N03TLCT-ND	.69	13.70	41.10	RSR025N03TLTR-ND	3,000	206.00/M	RSR025N03TL
	30	66mΩ	4.5	2.5	—	1	RTR025N03TLCT-ND	.53	10.60	31.80	RTR025N03TLTR-ND	3,000	159.00/M	RTR025N03TL
	30	66mΩ	2.5	4	16	1	RTR040N03TLCT-ND	.57	11.30	33.90	RTR040N03TLTR-ND	3,000	170.00/M	RTR040N03TL
	45	250mΩ	2.5	2	8	1	RTR020N05TLCT-ND	.90	18.09	54.27	RTR020N05TLTR-ND	3,000	286.00/M	RTR020N05TL
	45	—	—	2.5	—	1	RTR025N05TLCT-ND	.58	11.60	34.80	RTR025N05TLTR-ND	3,000	157.00/M	RTR025N05TL
	45	—	—	3	—	1	RTR030N05TLCT-ND	.60	11.33	33.98	RTR030N05TLTR-ND	3,000	196.00/M	RTR030N05TL
TSMT-5	20	58mΩ	4.5	2.5	5.0	1.25	QS5U36CT-ND ***NEW!***	.59	11.70	35.10	QS5U36TR-ND ***NEW!***	3,000	176.00/M	QS5U36TR
	20	130mΩ	4.5	1.5	3.0	1.25	QS5U34CT-ND ***NEW!***	.53	10.50	31.50	QS5U34TR-ND ***NEW!***	3,000	158.00/M	QS5U34TR
	30	225mΩ	4.0	2	8	1.25	QS5U33TRCT-ND	.73	14.58	43.74	QS5U33TRTR-ND	3,000	231.00/M	QS5U33TR
	30	71mΩ	4.5	2	8	1	QS5U12CT-ND	.70	14.00	42.00	QS5U12TR-ND	3,000	222.00/M	QS5U12TR
	30	71mΩ	4.5	2	8	1	QS5U13CT-ND	.67	13.40	40.20	QS5U13TR-ND	3,000	201.00/M	QS5U13TR
	30	71mΩ	4.5	2	8	1	QS5U16CT-ND	.67	13.40	40.20	QS5U16TR-ND	3,000	201.00/M	QS5U16TR
	30	71mΩ	4.5	2	8	1	QS5U17CT-ND	.76	15.20	45.60	QS5U17TR-ND	3,000	228.00/M	QS5U17TR
	30	71mΩ	4.5	2	8	1.25	QS5K2CT-ND	.50	10.00	30.00	QS5K2TR-ND	3,000	174.00/M	QS5K2TR
TSMT-6	20	22mΩ	4.5	5	10	1.25	RUQ050N02CT-ND	.72	13.43	40.28	RUQ050N02TR-ND	3,000	233.00/M	RUQ050N02TR
	30	148mΩ	4.5	2	8	1.25	RSQ020N03CT-ND	.74	14.70	44.10	RSQ020N03TR-ND	3,000	198.00/M	RSQ020N03TR
	30	94mΩ	4	3.5	14	1.25	RSQ035N03CT-ND	.84	16.70	50.10	RSQ035N03TR-ND	3,000	251.00/M	RSQ035N03TR
	30	89mΩ	4.5	2	—	1.25	RTQ020N03CT-ND	.48	9.50	28.50	RTQ020N03TR-ND	3,000	143.00/M	RTQ020N03TR
	30	38mΩ	4.5	3.5	—	1.25	RTQ035N03CT-ND	.72	14.30	42.90	RTQ035N03TR-ND	3,000	215.00/M	RTQ035N03TR
	30	36mΩ	4.5	4.5	—	1.25	RSQ045N03CT-ND	.80	15.93	47.79	RSQ045N03TR-ND	3,000	252.00/M	RSQ045N03TR
	30	30mΩ	4.5	4.5	18	1.25	RTQ045N03CT-ND	.73	14.67	44.01	RTQ045N03TR-ND	3,000	232.00/M	RTQ045N03TR
	45	415mΩ	2.5	1	—	1.25	QS6K21TRCT-ND	.69	13.70	41.10	QS6K21TRTR-ND	3,000	185.00/M	QS6K21TR
	45	—	—	4	—	1.25	RVQ040N05CT-ND	.69	12.90	38.70	RVQ040N05TR-ND	3,000	224.00/M	RVQ040N05TR
TUMT-3	20	39mΩ	4.5	2.5	5	0.8	RUF025N02TLCT-ND	.55	10.35	31.05	RUF025N02TLTR-ND	3,000	179.00/M	RUF025N02TL
	20	310mΩ	1.8	1.5	3.0	0.8	RUF015N02TLCT-ND	.60	11.54	33.23	RUF015N02TLTR-ND	3,000	157.00/M	RUF015N02TL
	30	170mΩ	4.5	1.5	—	0.8	RTF015N03TLCT-ND	.61	12.20	36.60	RTF015N03TLTR-ND	3,000	183.00/M	RTF015N03TL
	30	170mΩ	4	1.4	—	0.8	RSF014N03TLCT-ND	.61	12.20	36.60	RSF014N03TLTR-ND	3,000	183.00/M	RSF014N03TL
	30	48mΩ	4.5	2.5	—	0.8	RTF025N03TLCT-ND	.78	15.60	46.80	RTF025N03TLTR-ND	3,000	234.00/M	RTF025N03TL
TUMT-6	20	31mΩ	4.5	3.5	7	1	RUL035N02CT-ND	.58	10.95	32.85	RUL035N02TR-ND	3,000	190.00/M	RUL035N02TR
	30	35mΩ	4.5	3.5	—	1	RTL035N03CT-ND	.62	12.30	36.90	RTL035N03TR-ND	3,000	185.00/M	RTL035N03TR
	30	170mΩ	4.5	1.5	6.0	1	US6U37CT-ND ***NEW!***	1.09	20.88	60.12	US6U37TR-ND ***NEW!***	3,000	284.00/M	US6U37TR
TSST-8	30	65mΩ	4.5	2.5	10	1.25	TT8K2CT-ND ***NEW!***	.79	14.78	44.33	TT8K2TR-ND ***NEW!***	3,000	256.00/M	TT8K2TR
VMT-3	30	5Ω	4	0.1	0.4	0.15	2SK3541T2LCT-ND	.41	7.50	21.12	2SK3541T2LTR-ND	8,000	82.00/M	2SK3541T2L
EMT-3	20	—	8	0.3	—	0.15	RUE003N02TLCT-ND	.46	7.89	21.89	RUE003N02TLTR-ND	3,000	84.00/M	RUE003N02TL
	20	—	—	0.2	—	0.15	RUE002N02TLCT-ND	.31	5.81	16.12	RUE002N02TLTR-ND	3,000	62.00/M	RUE002N02TL
EMT-6	20	1.4Ω	8	.3	.6	.15	EM6K6T2RCT-ND	.46	8.85	25.49	EM6K6T2RTR-ND	8,000	113.00/M	EM6K6T2R
Dual N-Channel														
8-SOIC	30	93mΩ	4.5	3.5	14	2	SP8K5TBCT-ND	1.04	20.79	62.37	SP8K5TBTR-ND	2,500	329.00/M	SP8K5TB
	30	52mΩ	4.5	5	20	2	SP8K1TBCT-ND	.75	15.03	45.09	SP8K1TBTR-ND	2,500	238.00/M	SP8K1TB
	30	30mΩ	4.5	6	24	2	SP8K2TBCT-ND	.87	17.37	52.11	SP8K2TBTR-ND	2,500	275.00/M	SP8K2TB
	30	23mΩ	4.5	7	28	2	SP8K3TBCT-ND	1.44	31.28	96.25	SP8K3TBTR-ND	2,500	512.00/M	SP8K3TB
	30	16mΩ	4.5	9	36	2	SP8K4TBCT-ND	1.44	31.28	96.25	SP8K4TBTR-ND	2,500	512.00/M	SP8K4TB
EMT-5	30	0.8mΩ	2.5	0.3	—	0.15	EM5K5T2RCT-ND	.48	9.71	26.64	EM5K5T2RTR-ND	8,000	118.00/M	EM5K5T2R
EMT-6	30	5mΩ	4	0.1	0.4	0.15	EM6K1T2RCT-ND	.58	11.13	32.04	EM6K1T2RTR-ND	8,000	142.00/M	EM6K1T2R
	20	0.8Ω	2.5	0.2	0.4	0.15	EM6K7T2RCT-ND ***NEW!***	.40	8.01	21.96	EM6K7T2RTR-ND ***NEW!***	8,000	98.00/M	EM6K7T2R
SOT-353	30	5Ω	4	0.1	0.2	0.15	UM5K1NCT-ND	.45	8.63	24.84	UM5K1NTR-ND	3,000	117.00/M	UM5K1NTR
SOT-363	30	5Ω	4	0.1	0.2	0.15	UM6K1NCT-ND	.48	8.91	25.08	UM6K1NTR-ND	3,000	103.00/M	UM6K1NTR
	30	5Ω	4	0.1	0.2	0.15	UM6K1NTNCT-ND	.48	8.91	25.08	UM6K1NTNTR-ND	3,000	103.00/M	UM6K1NTN
SOT-457	60	2.8Ω	4	0.2	0.8	0.2	SM6K2T110CT-ND	.53	10.25	29.52	SM6K2T110TR-ND	3,000	139.00/M	SM6K2T110
TSMT-6	30	180mΩ	4.5	1	4	1.25	QS6K1CT-ND	.75	15.00	45.00	QS6K1TR-ND	3,000	225.00/M	QS6K1TR

* Maximum

SOT-323

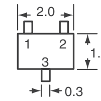

SOT-346

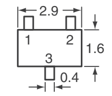

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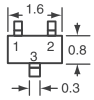

TCPT-3 ***NEW!***

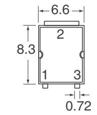

CPT-3, D-PAK

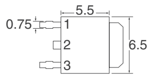

TO-220FM, TO-220FN

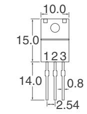

TSMT-3

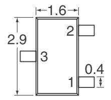

TSMT-5

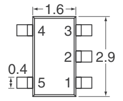

TSMT-6

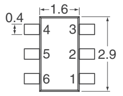

TSMT-8 ***NEW!***

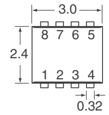

TSST-8 ***NEW!***

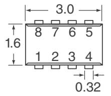

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Mosfets *(Cont.)*

Package	VDSS (V)	Typical RDS (on) @	VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
TUMT-6	20	130mΩ	4.5	1.5	3	1	US6K4CT-ND	.69	13.70	41.10	US6K4TR-ND	3,000	185.00/M	US6K4TR
	30	170mΩ	4.5	1.5	—	1	US6K1CT-ND	.66	13.20	39.60	US6K1TR-ND	3,000	198.00/M	US6K1TR
	30	170mΩ	10	1.4	—	1	US6K2CT-ND	.72	14.30	42.90	US6K2TR-ND	3,000	215.00/M	US6K2TR
Dual N and P-Channel														
8-SOIC	30/-30	52mΩ	4.5	5/7	20/28	2	SP8M7TBCT-ND	1.46	31.69	97.50	SP8M7TBTR-ND	2,500	519.00/M	SP8M7TB
	30/-30	52mΩ	4.5	5/4.5	20/18	2	SP8M3TBCT-ND	1.13	24.38	75.00	SP8M3TBTR-ND	2,500	399.00/M	SP8M3TB
	30/-30	52mΩ	4.5	5/3.5	20/14	2	SP8M6TBCT-ND	1.03	22.34	68.75	—	—	—	SP8M6TB
	30/-30	30mΩ	4.5	6/7	24/28	2	SP8M5TBCT-ND	1.58	34.13	105.00	SP8M5TBTR-ND	2,500	559.00/M	SP8M5TB
	30/-30	30mΩ	4.5	6/4.5	24/18	2	SP8M8TBCT-ND	1.22	26.41	81.25	SP8M8TBTR-ND	2,500	432.00/M	SP8M8TB
	30/-30	23mΩ	4.5	7/4.5	28/18	2	SP8M10TBCT-ND	1.28	27.63	85.00	SP8M10TBTR-ND	2,500	452.00/M	SP8M10TB
	30/-30	16mΩ	4.5	9/7	36/28	2	SP8M4TBCT-ND	1.84	39.81	122.50	SP8M4TBTR-ND	2,500	652.00/M	SP8M4TB
	30/-30	16mΩ	4.5	9/5	36/20	2	SP8M9TBCT-ND	1.63	35.34	108.75	SP8M9TBTR-ND	2,500	579.00/M	SP8M9TB
TSMT-6	30/-20	170mΩ	4.5	1.5/1.5	6/6	1.25	QS6M3CT-ND	.59	11.70	35.10	QS6M3TR-ND	3,000	176.00/M	QS6M3TR
	30/-20	170mΩ	4.5	1.5/1.5	6/6	1.25	QS6M4CT-ND	.66	13.20	39.60	QS6M4TR-ND	3,000	198.00/M	QS6M4TR
TUMT-6	20/-20	170/280mΩ	4.5	1.5/1	—	1	US6M2CT-ND	.74	14.80	44.40	US6M2TR-ND	3,000	222.00/M	US6M2TR
	30/-20	250mΩ	4.5	1.4/1	5.6/4	1	US6M1CT-ND	.74	14.80	44.40	US6M1TR-ND	3,000	222.00/M	US6M1TR
EMT-6	30/20	7mΩ/2mΩ	2.5	0.1/0.2	—	0.15	EM6M1T2RCT-ND	.80	15.63	44.00	EM6M1T2RTR-ND	8,000	170.00/M	EM6M1T2R
P-Channel														
8-SOIC	30	68mΩ	4.5	4	16	2	RSS040P03TBCT-ND	1.10	21.96	65.88	RSS040P03TBTR-ND	2,500	348.00/M	RSS040P03TB
	30	47mΩ	4.5	5	20	2	RSS050P03TBCT-ND	1.01	21.94	67.50	RSS050P03TBTR-ND	2,500	359.00/M	RSS050P03TB
	30	22mΩ	4.5	7.5	30	2	RSS075P03TBCT-ND	1.73	37.54	115.50	RSS075P03TBTR-ND	2,500	614.00/M	RSS075P03TB
	30	15mΩ	4.5	9	36	2	RSS090P03TBCT-ND	1.58	32.88	110.46	RSS090P03TBTR-ND	2,500	684.00/M	RSS090P03TB
	45	39mΩ	4	6	28	2	RSS060P05FU6TBCT-ND	1.87	40.54	124.75	RSS060P05FU6TBTR-ND	2,500	664.00/M	RSS060P05FU6TB
	45	39mΩ	4	7	28	2	RSS070P05FU6TBCT-ND	1.92	40.06	134.61	RSS070P05FU6TBTR-ND	2,500	833.00/M	RSS070P05FU6TB
SOT-323	20	1.1Ω	4	0.2	—	—	RTU002P02T106CT-ND	.55	10.50	30.24	RTU002P02T106TR-ND	3,000	143.00/M	RTU002P02T106
	30	0.9Ω	10	0.25	—	—	RSU002P03T106CT-ND	.42	8.13	23.40	RSU002P03T106TR-ND	3,000	111.00/M	RSU002P03T106
SOT-416	20	1.1Ω	4	0.2	—	—	RTE002P02TLCT-ND	.53	10.25	29.52	RTE002P02TLTR-ND	3,000	139.00/M	RTE002P02TL
	30	1.6Ω	4	0.2	—	0.15	RSE002P03TLCT-ND	.54	10.38	29.88	RSE002P03TLTR-ND	3,000	141.00/M	RSE002P03TL
TCPT-3	45	35mΩ	10	16	32	20	RSY160P05TLCT-ND ***NEW!***	1.63	35.26	108.50	RSY160P05TLTR-ND ***NEW!***	2,500	577.00/M	RSY160P05TL
TSMT-3	12	44mΩ	4.5	2.5	10	1	RZR025P01TLCT-ND	.57	11.30	33.90	RZR025P01TLTR-ND	3,000	153.00/M	RZR025P01TL
	12	—	—	4	—	1	RZR040P01TLCT-ND	.66	12.45	37.35	RZR040P01TLTR-ND	3,000	216.00/M	RZR040P01TL
	20	570mΩ	2.5	1.1	—	1	RTR011P02TLCT-ND	.47	9.34	28.02	RTR011P02TLTR-ND	3,000	126.00/M	RTR011P02TL
	20	100mΩ	4.5	2	8	1	RTR020P02TLCT-ND	.65	12.90	38.70	RTR020P02TLTR-ND	3,000	194.00/M	RTR020P02TL
	20	70mΩ	4.5	2.5	10	1	RTR025P02TLCT-ND	.55	11.00	33.00	RTR025P02TLTR-ND	3,000	165.00/M	RTR025P02TL
	20	55mΩ	4.5	3	12	1	RTR030P02TLCT-ND	.80	15.38	44.28	RTR030P02TLTR-ND	3,000	209.00/M	RTR030P02TL
	30	170mΩ	4.5	1.5	—	1	RSR015P03TLCT-ND	.60	11.90	35.70	RSR015P03TLTR-ND	3,000	179.00/M	RSR015P03TL
	30	135mΩ	4.5	2	—	1	RSR020P03TLCT-ND	.62	12.30	36.90	—	—	—	RSR020P03TL
	30	100mΩ	4.5	2.5	—	1	RSR025P03TLCT-ND	.71	14.10	42.30	RSR025P03TLTR-ND	3,000	212.00/M	RSR025P03TL
TSMT-5	20	160mΩ	4.5	1.5	6	1	QS5U21CT-ND	.68	13.68	41.04	QS5U21TR-ND	3,000	229.00/M	QS5U21TR
	20	160mΩ	4.5	1.5	6	1	QS5U23CT-ND	.66	13.20	39.60	QS5U23TR-ND	3,000	210.00/M	QS5U23TR
	20	160mΩ	4.5	1.5	6	1	QS5U26CT-ND	.70	14.00	42.00	QS5U26TR-ND	3,000	210.00/M	QS5U26TR
	20	160mΩ	4.5	1.5	6	1	QS5U27CT-ND	.69	13.77	41.31	QS5U27TR-ND	3,000	231.00/M	QS5U27TR
	20	90mΩ	4.5	2	8	0.9	QS5U28CT-ND	.75	14.94	44.82	QS5U28TR-ND	3,000	237.00/M	QS5U28TR
TSMT-6	12	—	—	5	—	1.25	RZQ050P01CT-ND	.78	14.55	43.65	RZQ050P01TR-ND	3,000	252.00/M	RZQ050P01TR
	12	25mΩ	4.5	4.5	12	1.25	RZQ045P01CT-ND ***NEW!***	.75	14.94	44.82	RZQ045P01TR-ND ***NEW!***	3,000	237.00/M	RZQ045P01TR
	20	155mΩ	4.5	1.5	6	1.25	QS6U22CT-ND	.64	12.80	38.40	QS6U22TR-ND	3,000	204.00/M	QS6U22TR
	20	72mΩ	4.5	2.5	10	1.25	RTQ025P02CT-ND	.58	11.60	34.80	RTQ025P02TR-ND	3,000	185.00/M	RTQ025P02TR
	20	60mΩ	4.5	3	12	1.25	RTQ030P02CT-ND	.52	10.30	30.90	—	—	—	RTQ030P02TR
	20	50mΩ	4.5	3.5	17.5	1.25	RTQ035P02CT-ND	.58	11.60	34.80	—	—	—	RTQ035P02TR
	20	35mΩ	4.5	4	16	1.25	RTQ040P02CT-ND	.76	15.10	45.30	RTQ040P02TR-ND	3,000	227.00/M	RTQ040P02TR
	30	500mΩ	4.5	1	2	1	QS6U24CT-ND	.67	13.40	40.20	QS6U24TR-ND	3,000	201.00/M	QS6U24TR
	30	120mΩ	4.5	2.5	10	1.25	RSQ025P03CT-ND	.74	14.80	44.40	RSQ025P03TR-ND	3,000	236.00/M	RSQ025P03TR
	30	65mΩ	4.5	3.5	14	1.25	RSQ035P03CT-ND	.73	14.67	44.01	RSQ035P03TR-ND	3,000	232.00/M	RSQ035P03TR
	30	—	—	4.5	—	1.25	RRQ045P03CT-ND	.88	16.58	49.73	RRQ045P03TR-ND	3,000	287.00/M	RRQ045P03TR
TSMT-8	12	21mΩ	4.5	4.5	18	1.5	QS8J1CT-ND ***NEW!***	1.31	26.28	78.84	QS8J1TR-ND ***NEW!***	3,000	416.00/M	QS8J1TR
TSST-8	12	22mΩ	4.5	4	16	1.25	RT1A040ZPCT-ND ***NEW!***	.99	19.89	59.67	RT1A040ZPTR-ND ***NEW!***	3,000	315.00/M	RT1A040ZPTR
	12	19mΩ	4.5	5	20	1.25	RT1A050ZPCT-ND ***NEW!***	1.13	22.59	67.77	RT1A050ZPTR-ND ***NEW!***	3,000	358.00/M	RT1A050ZPTR
	20	49mΩ	4.5	2.5	10	1.25	TT8J21CT-ND ***NEW!***	.95	19.08	57.24	TT8J21TR-ND ***NEW!***	3,000	302.00/M	TT8J21TR
	20	105mΩ	4.5	2.4	—	1	TT8U1CT-ND ***NEW!***	.81	16.20	48.60	TT8U1TR-ND ***NEW!***	3,000	257.00/M	TT8U1TR
	30	60mΩ	10	2.5	10	1.25	TT8J2CT-ND ***NEW!***	.86	16.13	48.38	TT8J2TR-ND ***NEW!***	3,000	280.00/M	TT8J2TR
TUMT-3	12	—	—	3	—	0.8	RZF030P01TLCT-ND	.58	10.95	32.85	RZF030P01TLTR-ND	3,000	190.00/M	RZF030P01TL
	20	630mΩ	2.5	1	4	0.8	RSF010P03TLCT-ND	.64	12.70	38.10	RSF010P03TLTR-ND	3,000	191.00/M	RSF010P03TL
	20	280mΩ	4.5	1	4	0.8	RTF010P02TLCT-ND	.64	12.70	38.10	RTF010P02TLTR-ND	3,000	191.00/M	RTF010P02TL
	20	100mΩ	4.5	1.5	6	0.8	RTF015P02TLCT-ND	.75	14.94	44.82	RTF015P02TLTR-ND	3,000	237.00/M	RTF015P02TL
	20	60mΩ	4.5	2	8	0.8	RTF020P02TLCT-ND	.95	18.99	56.97	RTF020P02TLTR-ND	3,000	301.00/M	RTF020P02TL
TUMT-5	20	280mΩ	4.5	1	4	1	US5U38CT-ND ***NEW!***	.57	10.88	31.32	US5U38TR-ND ***NEW!***	3,000	148.00/M	US5U38TR
	45	0.6Ω	10	0.7	2.8	1	US5U35CT-ND ***NEW!***	.74	14.85	44.55	US5U35TR-ND ***NEW!***	3,000	235.00/M	US5U35TR
TUMT-6	12	44mΩ	4.5	2.5	10	1	RZL025P01CT-ND	.62	12.40	37.20	RZL025P01TR-ND	3,000	167.00/M	RZL025P01TR
	12	—	—	3.5	—	1	RZL035P01CT-ND	.64	12.00	36.00	RZL035P01TR-ND	3,000	208.00/M	RZL035P01TR
	20	100mΩ	4.5	2	8	1	RTL020P02CT-ND	.74	14.85	44.55	RTL020P02TR-ND	3,000	235.00/M	RTL020P02TR
	20	50mΩ	4.5	3	12	1	RTL030P02CT-ND	.84	16.83	50.49	RTL030P02TR-ND	3,000	266.00/M	RTL030P02TR
	30	210mΩ	2.5	2	8	1	RSL020P03TRCT-ND	.60	12.00	36.00	RSL020P03TRTR-ND	3,000	180.00/M	RSL020P03TR
	30	—	—	2.5	—	1	RRL025P03CT-ND	.62	11.55	34.65	RRL025P03TR-ND	3,000	200.00/M	RRL025P03TR
VMT-3	20	1.1Ω	4	0.2	—	0.15	RTM002P02T2LCT-ND	.59	11.25	32.40	RTM002P02T2LTR-ND	8,000	144.00/M	RTM002P02T2L
	30	0.9Ω	10	0.2	—	0.15	RSM002P03T2LCT-ND	.59	11.38	32.76	RSM002P03T2LTR-ND	8,000	146.00/M	RSM002P03T2L
EMT-3	20	0.8Ω	4.5	0.2	0.8	0.15	RZE002P02TLCT-ND ***NEW!***	.34	6.38	17.68	RZE002P02TLTR-ND ***NEW!***	3,000	68.00/M	RZE002P02TL
UMT-6	30	0.9Ω	10	0.2	0.4	0.15	UM6J1NTNCT-ND ***NEW!***	.49	9.84	26.25	UM6J1NTNTR-ND ***NEW!***	3,000	128.00/M	UM6J1NTN
Dual P-Channel														
8-SOIC	30	270mΩ	4.5	2	8	2	SP8J4TBCT-ND	1.20	26.08	80.25	SP8J4TBTR-ND	2,500	427.00/M	SP8J4TB
	30	100mΩ	4.5	3.5	14	2	SP8J3TBCT-ND	1.54	33.39	102.75	SP8J3TBTR-ND	2,500	547.00/M	SP8J3TB
	30	57mΩ	4.5	4.5	18	2	SP8J2TBCT-ND	1.49	32.34	99.50	SP8J2TBTR-ND	2,500	529.00/M	SP8J2TB
	30	40mΩ	4.5	5	20	2	SP8J1TBCT-ND	1.81	37.69	126.63	SP8J1TBTR-ND	2,500	784.00/M	SP8J1TB
	30	25mΩ	4.5	7	28	2	SP8J5TBCT-ND	2.93	60.94	204.75	SP8J5TBTR-ND	2,500	1268.00/M	SP8J5TB
TSMT-6	20	155mΩ	4.5	1.5	6	1.25	QS6J1CT-ND	.70	13.90	41.70	QS6J1TR-ND	3,000	209.00/M	QS6J1TR
	20	155mΩ	4.5	1.5	6	1.25	QS6J3CT-ND	.66	13.10	39.30	QS6J3TR-ND	3,000	209.00/M	QS6J3TR
TUMT-6	20	280mΩ	4.5	1	4	1	US6J2CT-ND	.74	14.80	44.40	US6J2TR-ND	3,000	222.00/M	US6J2TR
EMT-6	20	0.8Ω	4.5	0.2	0.8	0.15	EM6J1T2RCT-ND ***NEW!***	.53	10.70	29.34	EM6J1T2RTR-ND ***NEW!***	8,000	130.00/M	EM6J1T2R

Package	VDSS (V)	Typ. RDS (on) @	VGS (V)	ID (A)	IDP (A)	VRM (V)	IF (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Rohm Part No.
N-Channel with Diode															
TUMT-5	30	340mΩ	2.5	1.5	6.0	25	0.7	0.7	US5U3CT-ND	.72	14.30	42.90	US5U3TR-ND	215.00/M	US5U3TR
	30	250mΩ	4.5	1.4	—	—	—	1	US5U2CT-ND	.68	13.50	40.50	US5U2TR-ND	215.00/M	US5U2TR
	30	170mΩ	4.5	1.5	—	—	—	1	US5U1CT-ND	.68	13.50	40.50	US5U1TR-ND	215.00/M	US5U1TR
P-Channel with Diode															
TUMT-5	20	280mΩ	4.5	1	4	25	0.7	1	US5U29CT-ND	.68	13.50	40.50	US5U29TR-ND	227.00/M	US5U29TR
	20	280mΩ	4.5	1	4	25	0.5	1	US5U30CT-ND	.70	14.00	42.00	US5U30TR-ND	222.00/M	US5U30TR

* Maximum

TUMT-3

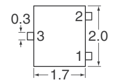

TUMT-5

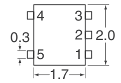

TUMT-6

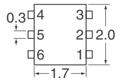

VMT-3

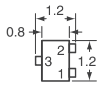

EMT-3

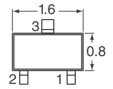

EMT-5

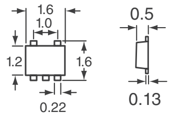

EMT-6

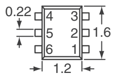

SOT-353

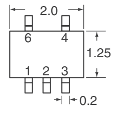

SOT-363, UMT-6

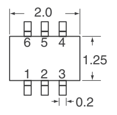

SOT-457

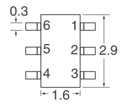

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistors

Multiple pinout configurations available, see Digi-Key website for data sheet

Dimensions in mm

SOT-89

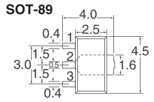

1. Base
2. Collector
3. Emitter

SOT-323

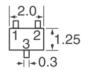

1. Emitter
2. Base
3. Collector

SOT-346

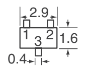

1. Emitter
2. Base
3. Collector

SOT-416 (EMT3)

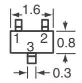

1. Emitter
2. Base
3. Collector

VMT-3

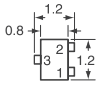

1. Base
2. Emitter
3. Collector

SOT-353

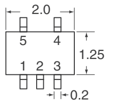

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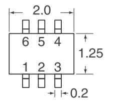

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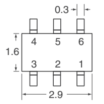

SMT-5

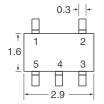

EMT-5

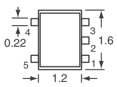

EMT-6

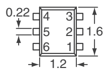

SOT-428

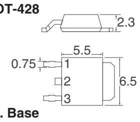

1. Base
2. Collector
3. Emitter

SOT-23

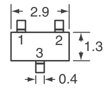

1. Emitter
2. Base
3. Collector

TSMT-3

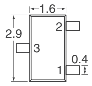

1. Base
2. Emitter
3. Collector

SC-72/SPT

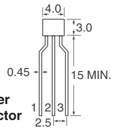

1. Emitter
2. Collector
3. Base

ATV

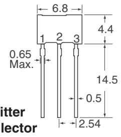

1. Emitter
2. Collector
3. Base

TO-220FP

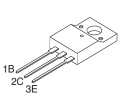

TUMT-3

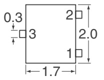

1. Gate
2. Source
3. Drain

TUMT-6

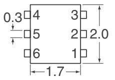

TSMT-6

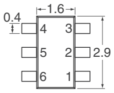

Digital Transistors

Package	VCEO (V)	IO (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
						NPN							
SOT-89	60	1A	300	13	—	DTDG14GPT100CT-ND	.75	14.50	41.76	DTDG14GPT100TR-ND	1,000	209.00	DTDG14GPT100
	60	1A	300	2.86	13	DTDG23YPT100CT-ND	1.10	21.13	60.84	DTDG23YPT100TR-ND	1,000	304.00	DTDG23YPT100
SOT-323	50	100	33	1.3	12	DTC113ZUAT106CT-ND	.53	7.75	20.15	DTC113ZUAT106TR-ND	3,000	73.00/M	DTC113ZUAT106
	50	500	82	1.3	12	DTD113ZUT106CT-ND	.58	11.13	32.04	DTD113ZUT106TR-ND	3,000	151.00/M	DTD113ZUT106
	50	100	30	13	1.2	DTC114EUAT106CT-ND	.46	6.75	17.55	DTC114EUAT106TR-ND	3,000	63.00/M	DTC114EUAT106
	50	100	30	13	—	DTC114GUAT106CT-ND	.36	6.19	17.16	DTC114GUAT106TR-ND	3,000	66.00/M	DTC114GUAT106
	50	100	100	13	—	DTC114TUAT106CT-ND	.39	5.75	14.95	DTC114TUAT106TR-ND	3,000	54.00/M	DTC114TUAT106
	50	100	24	13	0.57	DTC114WUAT106CT-ND	.43	7.31	20.28	DTC114WUAT106TR-ND	3,000	84.00/M	DTC114WUAT106
	50	100	68	13	5.7	DTC114YUAT106CT-ND	.46	6.75	17.55	DTC114YUAT106TR-ND	3,000	63.00/M	DTC114YUAT106
	50	20	82	130	1.2	DTC115EUAT106CT-ND	.46	6.75	17.55	DTC115EUAT106TR-ND	3,000	63.00/M	DTC115EUAT106
	50	100	20	2.86	1.2	DTC123EUAT106CT-ND	.43	7.31	20.28	—	—	—	DTC123EUAT106
	50	100	80	2.86	26	DTC123JUAT106CT-ND	.46	6.75	17.55	DTC123JUAT106TR-ND	3,000	63.00/M	DTC123JUAT106
	50	100	33	2.86	5.5	DTC123YUAT106CT-ND	.46	7.88	21.84	DTC123YUAT106TR-ND	3,000	84.00/M	DTC123YUAT106
	50	30	56	28.6	1.2	DTC124EUAT106CT-ND	.43	6.25	16.25	DTC124EUAT106TR-ND	3,000	59.00/M	DTC124EUAT106
	50	50	68	28.6	2.6	DTC124XUAT106CT-ND	.43	7.31	20.28	DTC124XUAT106TR-ND	3,000	78.00/M	DTC124XUAT106
	50	100	20	6.11	1.2	DTC143EUAT106CT-ND	.41	6.00	15.60	DTC143EUAT106TR-ND	3,000	56.00/M	DTC143EUAT106
	50	100	80	6.11	12	DTC143ZUAT106CT-ND	.46	6.75	17.55	DTC143ZUAT106TR-ND	3,000	63.00/M	DTC143ZUAT106
	50	100	68	61.1	1.2	DTC144EUAT106CT-ND	.46	6.75	17.55	DTC144EUAT106TR-ND	3,000	63.00/M	DTC144EUAT106
	50	100	68	61.1	—	DTC144GUAT106CT-ND	.43	7.31	20.28	DTC144GUAT106TR-ND	3,000	84.00/M	DTC144GUAT106
	50	100	100	61.1	—	DTC144TUAT106CT-ND	.43	7.31	20.28	DTC144TUAT106TR-ND	3,000	78.00/M	DTC144TUAT106
	50	30	56	61.1	0.57	DTC144WUAT106CT-ND	.43	6.25	16.25	DTC144WUAT106TR-ND	3,000	59.00/M	DTC144WUAT106
	15	600	100	13	—	DTC314TUT106CT-ND	.55	10.50	30.24	—	—	—	DTC314TUT106
	15	600	100	2.86	—	DTC323TUT106CT-ND	.55	10.50	30.24	DTC323TUT106TR-ND	3,000	143.00/M	DTC323TUT106
	20	600	2,700	13	—	DTC614TUT106CT-ND	.47	8.58	24.16	DTC614TUT106TR-ND	3,000	99.00/M	DTC614TUT106
SOT-346	50	500	33	1.3	1.2	DTD113EKT146CT-ND	.49	8.98	25.30	DTD113EKT146TR-ND	3,000	104.00/M	DTD113EKT146
	50	100	33	1.3	12	DTC113ZKAT146CT-ND	.39	5.75	14.95	DTC113ZKAT146TR-ND	3,000	54.00/M	DTC113ZKAT146
	50	500	56	1.3	12	DTD113ZKT146CT-ND	.63	10.78	29.90	DTD113ZKT146TR-ND	3,000	115.00/M	DTD113ZKT146
	50	100	30	13	1.2	DTC114EKAT146CT-ND	.37	5.50	14.30	DTC114EKAT146TR-ND	3,000	52.00/M	DTC114EKAT146
	50	500	56	13	1.2	DTD114EKT146CT-ND	.42	8.13	23.40	DTD114EKT146TR-ND	3,000	111.00/M	DTD114EKT146
	50	100	30	13	—	DTC114GKAT146CT-ND	.36	6.19	17.16	DTC114GKAT146TR-ND	3,000	66.00/M	DTC114GKAT146
	50	500	56	13	—	DTD114GKT146CT-ND	.50	9.63	27.72	DTD114GKT146TR-ND	3,000	131.00/M	DTD114GKT146
	50	100	600	13	—	DTC114TKAT146CT-ND	.32	4.75	12.35	DTC114TKAT146TR-ND	3,000	45.00/M	DTC114TKAT146
	50	100	24	13	0.57	DTC114WKAT146CT-ND	.39	6.56	18.20	—	—	—	DTC114WKAT146
	50	100	68	13	5.7	DTC114YKAT146CT-ND	.39	5.75	14.95	DTC114YKAT146TR-ND	3,000	54.00/M	DTC114YKAT146
	50	100	82	130	1.2	DTC115EKAT146CT-ND	.36	5.25	13.65	DTC115EKAT146TR-ND	3,000	54.00/M	DTC115EKAT146
	50	100	20	2.86	1.2	DTC123EKAT146CT-ND	.39	5.75	14.95	DTC123EKAT146TR-ND	3,000	54.00/M	DTC123EKAT146
	50	500	39	2.86	1.2	DTD123EKT146CT-ND	.42	8.13	23.40	DTD123EKT146TR-ND	3,000	111.00/M	DTD123EKT146
	50	100	80	2.86	26	DTC123JKAT146CT-ND	.34	5.00	13.00	DTC123JKAT146TR-ND	3,000	47.00/M	DTC123JKAT146
	50	500	100	2.86	—	DTD123TKT146CT-ND	.50	9.63	27.72	DTD123TKT146TR-ND	3,000	131.00/M	DTD123TKT146
	50	100	33	2.86	5.5	DTC123YKAT146CT-ND	.39	5.75	14.95	DTC123YKAT146TR-ND	3,000	54.00/M	DTC123YKAT146
	50	500	56	2.86	5.5	DTD123YKT146CT-ND	.42	8.13	23.40	DTD123YKT146TR-ND	3,000	111.00/M	DTD123YKT146
	50	100	56	28.6	1.2	DTC124EKAT146CT-ND	.39	5.75	14.95	DTC124EKAT146TR-ND	3,000	54.00/M	DTC124EKAT146
	50	100	100	28.6	—	DTC124TKAT146CT-ND	.36	5.25	13.65	DTC124TKAT146TR-ND	3,000	49.00/M	DTC124TKAT146
	50	100	68	28.6	2.6	DTC124XKAT146CT-ND	.39	5.75	14.95	DTC124XKAT146TR-ND	3,000	54.00/M	DTC124XKAT146
	50	100	20	6.11	1.2	DTC143EKAT146CT-ND	.37	5.50	14.30	DTC143EKAT146TR-ND	3,000	52.00/M	DTC143EKAT146
	50	500	47	6.11	1.2	DTD143EKT146CT-ND	.53	10.25	29.52	DTD143EKT146TR-ND	3,000	139.00/M	DTD143EKT1460
	50	100	30	6.11	2.6	DTC143XKAT146CT-ND	.39	5.75	14.95	DTC143XKAT146TR-ND	3,000	54.00/M	DTC143XKAT146
	50	100	80	6.11	12	DTC143ZKAT146CT-ND	.39	5.75	14.95	DTC143ZKAT146TR-ND	3,000	54.00/M	DTC143ZKAT146
	50	100	68	61.1	1.2	DTC144EKAT146CT-ND	.39	5.75	14.95	DTC144EKAT146TR-ND	3,000	54.00/M	DTC144EKAT146
	50	100	68	61.1	—	DTC144GKAT146CT-ND	.39	6.56	18.20	DTC144GKAT146TR-ND	3,000	70.00/M	DTC144GKAT146
	50	100	100	61.1	—	DTC144TKAT146CT-ND	.36	5.25	13.65	—	—	—	DTC144TKAT146
	50	30	33	61.1	0.26	DTC144VKAT146CT-ND	.41	6.94	19.24	DTC144VKAT146TR-ND	3,000	74.00/M	DTC144VKAT146
	50	100	56	61.1	0.57	DTC144WKAT146CT-ND	.41	6.94	19.24	DTC144WKAT146TR-ND	3,000	74.00/M	DTC144WKAT146
	50	600	100	13	—	DTC314TKT146CT-ND	.40	7.63	21.96	DTC314TKT146TR-ND	3,000	111.00/M	DTC314TKT146
	15	600	600	2.86	—	DTC323TKT146CT-ND	.63	10.78	29.90	DTC323TKT146TR-ND	3,000	115.00/M	DTC323TKT146
	15	600	100	6.11	—	DTC343TKT146CT-ND	.50	9.63	27.72	DTC343TKT146TR-ND	3,000	131.00/M	DTC343TKT146
	20	600	2,700	13	—	DTC614TKT146CT-ND	.44	7.50	20.80	DTC614TKT146TR-ND	3,000	80.00/M	DTC614TKT146
SOT-416	50	50	30	13	1.2	DTC114EETLCT-ND	.39	5.75	14.95	DTC114EETLTR-ND	3,000	54.00/M	DTC114EETL
	50	100	100	13	—	DTC114TETLCT-ND	.41	6.00	15.60	DTC114TETLTR-ND	3,000	56.00/M	DTC114TETL
	50	100	24	13	0.57	DTC114WETLCT-ND	.47	8.06	22.36	DTC114WETLTR-ND	3,000	92.00/M	DTC114WETL
	50	70	68	13	5.7	DTC114YETLCT-ND	.46	6.75	17.55	DTC114YETLTR-ND	3,000	63.00/M	DTC114YETL
	50	20	82	130	1.2	DTC115EETLCT-ND	.46	6.75	17.55	DTC115EETLTR-ND	3,000	63.00/M	DTC115EETL
	50	100	20	2.86	1.2	DTC123EETLCT-ND	.46	6.75	17.55	DTC123EETLTR-ND	3,000	63.00/M	DTC123EETL
	50	100	80	2.86	26	DTC123JETLCT-ND	.46	6.75	17.55	DTC123JETLTR-ND	3,000	63.00/M	DTC123JETL
	50	100	33	2.86	5.5	DTC123YETLCT-ND	.51	8.63	23.92	DTC123YETLTR-ND	3,000	92.00/M	DTC123YETL

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Digital Transistors *(Cont.)*

Package	VCEO (V)	IO (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
SOT-416	50	100	56	28.6	1.2	DTC124EETLCT-ND	.46	6.75	17.55	DTC124EETLTR-ND	3,000	63.00/M	DTC124EETL
	50	50	68	28.6	2.6	DTC124XETLCT-ND	.46	6.75	17.55	DTC124XETLTR-ND	3,000	63.00/M	DTC124XETL
	50	100	30	6.11	1.2	DTC143EETLCT-ND	.46	6.75	17.55	DTC143EETLTR-ND	3,000	63.00/M	DTC143EETL
	50	100	30	6.11	2.6	DTC143XETLCT-ND	.46	6.75	17.55	DTC143XETLTR-ND	3,000	63.00/M	DTC143XETL
	50	100	80	6.11	12	DTC143ZETLCT-ND	.46	6.75	17.55	DTC143ZETLTR-ND	3,000	63.00/M	DTC143ZETL
	50	100	68	61.1	1.2	DTC144EETLCT-ND	.46	6.75	17.55	DTC144EETLTR-ND	3,000	63.00/M	DTC144EETL
VMT-3	50	50	30	13	1.2	DTC114EMT2LCT-ND	.40	6.75	18.72	DTC114EMT2LTR-ND	8,000	65.00/M	DTC114EMT2L
	50	100	100	13	—	DTC114TMT2LCT-ND	.37	6.38	17.68	DTC114TMT2LTR-ND	8,000	61.00/M	DTC114TMT2L
	50	70	68	13	5.7	DTC114YMT2LCT-ND	.43	7.31	20.28	DTC114YMT2LTR-ND	8,000	76.00/M	DTC114YMT2L
	50	20	82	130	1.2	DTC115EMT2LCT-ND	.43	7.31	20.28	DTC115EMT2LTR-ND	8,000	70.00/M	DTC115EMT2L
	50	100	20	2.86	1.2	DTC123EMT2LCT-ND	.43	7.31	20.28	DTC123EMT2LTR-ND	8,000	76.00/M	DTC123EMT2L
	50	100	80	2.86	26	DTC123JMT2LCT-ND	.44	6.50	16.90	—	—	—	DTC123JMT2L
	50	30	56	28.6	1.2	DTC124EMT2LCT-ND	.37	6.38	17.68	DTC124EMT2LTR-ND	8,000	65.00/M	DTC124EMT2L
	50	50	68	28.6	2.6	DTC124XMT2LCT-ND	.39	6.56	18.20	DTC124XMT2LTR-ND	8,000	63.00/M	DTC124XMT2L
	50	100	30	6.11	1.2	DTC143EMT2LCT-ND	.49	7.25	18.85	DTC143EMT2LTR-ND	8,000	58.00/M	DTC143EMT2L
	50	100	30	6.11	2.6	DTC143XMT2LCT-ND	.34	5.00	13.00	DTC143XMT2LTR-ND	8,000	45.00/M	DTC143XMT2L
	50	100	80	6.11	12	DTC143ZMT2LCT-ND	.09	2.03	6.25	DTC143ZMT2LTR-ND	8,000	32.00/M	DTC143ZMT2L
	50	30	68	61.1	1.2	DTC144EMT2LCT-ND	.40	6.75	18.72	DTC144EMT2LTR-ND	8,000	65.00/M	DTC144EMT2L
PNP													
SOT-323	50	50	30	13	1.2	DTA114EUAT106CT-ND	.39	5.75	14.95	DTA114EUAT106TR-ND	3,000	54.00/M	DTA114EUAT106
	50	100	33	1.3	12	DTA113ZUAT106CT-ND	.49	7.25	18.85	DTA113ZUAT106TR-ND	3,000	68.00/M	DTA113ZUAT106
	50	100	30	13	—	DTA114GUAT106CT-ND	.26	3.75	9.75	DTA114GUAT106TR-ND	3,000	43.00/M	DTA114GUAT106
	50	100	100	13	—	DTA114TUAT106CT-ND	.43	6.25	16.25	DTA114TUAT106TR-ND	3,000	59.00/M	DTA114TUAT106
	50	100	24	13	0.57	DTA114WUAT106CT-ND	.43	7.31	20.28	DTA114WUAT106TR-ND	3,000	78.00/M	DTA114WUAT106
	50	70	68	13	5.7	DTA114YUAT106CT-ND	.41	6.00	15.60	DTA114YUAT106TR-ND	3,000	56.00/M	DTA114YUAT106
	50	100	82	130	1.2	DTA115EUAT106CT-ND	.46	7.88	21.84	DTA115EUAT106TR-ND	3,000	84.00/M	DTA115EUAT106
	50	100	20	2.86	1.2	DTA123EUAT106CT-ND	.43	6.25	16.25	DTA123EUAT106TR-ND	3,000	63.00/M	DTA123EUAT106
	50	100	80	2.86	26	DTA123JUAT106CT-ND	.43	6.25	16.25	DTA123JUAT106TR-ND	3,000	59.00/M	DTA123JUAT106
	50	100	33	2.86	5.5	DTA123YUAT106CT-ND	.46	6.75	17.55	DTA123YUAT106TR-ND	3,000	63.00/M	DTA123YUAT106
	50	30	56	28.6	1.2	DTA124EUAT106CT-ND	.43	6.25	16.25	—	—	—	DTA124EUAT106
	50	50	68	28.6	2.6	DTA124XUAT106CT-ND	.43	7.31	20.28	—	—	—	DTA124XUAT106
	50	100	30	6.11	1.2	DTA143EUAT106CT-ND	.43	6.25	16.25	—	—	—	DTA143EUAT106
	50	100	100	6.11	—	DTA143TUAT106CT-ND	.43	6.25	16.25	DTA143TUAT106TR-ND	3,000	59.00/M	DTA143TUAT106
	50	100	100	6.11	—	DTC143TUAT106CT-ND	.43	6.25	16.25	DTC143TUAT106TR-ND	3,000	63.00/M	DTC143TUAT106
	50	100	30	6.11	2.6	DTA143XUAT106CT-ND	.46	6.75	17.55	DTA143XUAT106TR-ND	3,000	63.00/M	DTA143XUAT106
	50	100	80	6.11	12	DTA143ZUAT106CT-ND	.43	6.25	16.25	—	—	—	DTA143ZUAT106
	50	30	68	61.1	1.2	DTA144EUAT106CT-ND	.43	6.25	16.25	DTA144EUAT106TR-ND	3,000	63.00/M	DTA144EUAT106
	50	100	68	61.1	—	DTA144GUAT106CT-ND	.43	7.31	20.28	DTA144GUAT106TR-ND	3,000	84.00/M	DTA144GUAT106
	50	100	100	61.1	—	DTA144TUAT106CT-ND	.43	6.25	16.25	DTA144TUAT106TR-ND	3,000	63.00/M	DTA144TUAT106
	50	30	56	61.1	0.57	DTA144WUAT106CT-ND	.43	7.31	20.28	—	—	—	DTA144WUAT106
SOT-346	50	500	33	1.3	1.2	DTB113EKT146CT-ND	.42	7.66	21.56	DTB113EKT146TR-ND	3,000	104.00/M	DTB113EKT146
	50	500	56	1.3	12	DTB113ZKT146CT-ND	.47	8.66	24.38	DTB113ZKT146TR-ND	3,000	100.00/M	DTB113ZKT146
	50	100	33	1.3	12	DTA113ZKAT146CT-ND	.36	5.25	13.65	DTA113ZKAT146TR-ND	3,000	49.00/M	DTA113ZKAT146
	50	50	30	13	1.2	DTA114EKAT146CT-ND	.32	4.75	12.35	DTA114EKAT146TR-ND	3,000	45.00/M	DTA114EKAT146
	50	500	56	13	1.2	DTB114EKT146CT-ND	.40	7.63	21.96	—	—	—	DTB114EKT146
	50	500	56	13	—	DTB114GKT146CT-ND	.50	9.63	27.72	DTB114GKT146TR-ND	3,000	139.00/M	DTB114GKT146
	50	100	30	13	—	DTA114GKAT146CT-ND	.43	7.31	20.28	DTA114GKAT146TR-ND	3,000	84.00/M	DTA114GKAT146
	50	100	600	13	—	DTA114TKAT146CT-ND	.39	5.75	14.95	DTA114TKAT146TR-ND	3,000	54.00/M	DTA114TKAT146
	50	100	24	13	0.57	DTA114WKAT146CT-ND	.39	6.56	18.20	DTA114WKAT146TR-ND	3,000	70.00/M	DTA114WKAT146
	50	100	68	13	5.7	DTA114YKAT146CT-ND	.39	5.75	14.95	DTA114YKAT146TR-ND	3,000	54.00/M	DTA114YKAT146
	50	20	82	130	1.2	DTA115EKAT146CT-ND	.41	6.94	19.24	DTA115EKAT146TR-ND	3,000	74.00/M	DTA115EKAT146
	50	100	20	2.86	1.2	DTA123EKAT146CT-ND	.39	5.75	14.95	DTA123EKAT146TR-ND	3,000	54.00/M	DTA123EKAT146
	50	500	39	2.86	1.2	DTB123EKT146CT-ND	.42	8.13	23.40	DTB123EKT146TR-ND	3,000	111.00/M	DTB123EKT146
	50	100	80	2.86	26	DTA123JKAT146CT-ND	.39	5.75	14.95	DTA123JKAT146TR-ND	3,000	54.00/M	DTA123JKAT146
	40	500	600	2.86	—	DTB123TKT146CT-ND	.41	7.50	21.12	—	—	—	DTB123TK146
	50	100	33	2.86	5.5	DTA123YKAT146CT-ND	.39	5.75	14.95	DTA123YKAT146TR-ND	3,000	54.00/M	DTA123YKAT146
	50	500	56	2.86	5.5	DTB123YKT146CT-ND	.42	8.13	23.40	DTB123YKT146TR-ND	3,000	111.00/M	DTB123YKT146
	50	100	56	28.6	1.2	DTA124EKAT146CT-ND	.39	5.75	14.95	DTA124EKAT146TR-ND	3,000	54.00/M	DTA124EKAT146
	50	100	100	28.6	—	DTA124TKAT146CT-ND	.36	5.25	13.65	—	—	—	DTA124TKAT146
	50	50	68	28.6	2.6	DTA124XKAT146CT-ND	.36	5.25	13.65	DTA124XKAT146TR-ND	3,000	49.00/M	DTA124XKAT146
	50	100	20	6.11	1.2	DTA143EKAT146CT-ND	.37	5.50	14.30	DTA143EKAT146TR-ND	3,000	52.00/M	DTA143EKAT146
	50	500	47	6.11	1.2	DTB143EKT146CT-ND	.49	8.98	25.30	DTB143EKT146TR-ND	3,000	104.00/M	DTB143EKT146
	50	100	600	6.11	—	DTC143TKAT146CT-ND	.37	5.50	14.30	DTC143TKAT146TR-ND	3,000	52.00/M	DTC143TKAT146
	50	100	100	6.11	—	DTA143TKAT146CT-ND	.36	5.25	13.65	DTA143TKAT146TR-ND	3,000	49.00/M	DTA143TKAT146
	40	500	600	6.11	—	DTB143TKT146CT-ND	.40	7.63	21.96	DTB143TKT146TR-ND	3,000	104.00/M	DTB143TKT146
	50	100	80	6.11	12	DTA143ZKAT146CT-ND	.31	4.50	11.70	DTA143ZKAT146TR-ND	3,000	45.00/M	DTA143ZKAT146
	50	100	30	6.11	2.6	DTA143XKAT146CT-ND	.39	5.75	14.95	DTA143XKAT146TR-ND	3,000	54.00/M	DTA134XKAT146
	50	100	68	61.1	1.2	DTA144EKAT146CT-ND	.39	5.75	14.95	DTA144EKAT146TR-ND	3,000	54.00/M	DTA144EKAT146
	50	100	68	61.1	—	DTA144GKAT146CT-ND	.39	6.56	18.20	DTA144GKAT146TR-ND	3,000	70.00/M	DTA144GKAT146
	50	100	100	61.1	—	DTA144TKAT146CT-ND	.36	5.25	13.65	DTA144TKAT146TR-ND	3,000	49.00/M	DTA144TKAT146
	50	100	33	61.1	0.26	DTA144VKAT146CT-ND	.39	6.56	18.20	DTA144VKAT146TR-ND	3,000	74.00/M	DTA144VKAT146
	50	30	56	61.1	0.57	DTA144WKAT146CT-ND	.39	6.56	18.20	—	—	—	DTA144WKAT146
SOT-416	50	100	33	1.3	12	DTA113ZETLCT-ND	.47	8.06	22.36	DTA113ZETLTR-ND	3,000	86.00/M	DTA113ZETL
	50	50	30	13	1.2	DTA114EETLCT-ND	.39	5.75	14.95	DTA114EETLTR-ND	3,000	54.00/M	DTA114EETL
	50	100	100	13	—	DTA114TETLCT-ND	.43	6.25	16.25	DTA114TETLTR-ND	3,000	59.00/M	DTA114TETL
	50	100	24	13	0.57	DTA114WETLCT-ND	.47	8.06	22.36	DTA114WETLTR-ND	3,000	92.00/M	DTA114WETL
	50	70	68	13	5.7	DTA114YETLCT-ND	.43	6.25	16.25	DTA114YETLTR-ND	3,000	59.00/M	DTA114YETL
	50	100	82	130	1.2	DTA115EETLCT-ND	.51	8.63	23.92	DTA115EETLTR-ND	3,000	92.00/M	DTA115EETL
	50	100	20	2.86	1.2	DTA123EETLCT-ND	.43	6.25	16.25	DTA123EETLTR-ND	3,000	59.00/M	DTA123EETL
	50	100	80	2.86	26	DTA123JETLCT-ND	.43	6.25	16.25	DTA123JETLTR-ND	3,000	63.00/M	DTA123JETL
	50	100	33	2.86	5.5	DTA123YETLCT-ND	.47	8.06	22.36	DTA123YETLTR-ND	3,000	92.00/M	DTA123YETL
	50	30	56	28.6	1.2	DTA124EETLCT-ND	.43	6.25	16.25	DTA124EETLTR-ND	3,000	59.00/M	DTA124EETL
	50	100	100	28.6	—	DTA124TETLCT-ND	.47	8.06	22.36	DTA124TETLTR-ND	3,000	86.00/M	DTA124TETL
	50	50	68	28.6	2.6	DTA124XETLCT-ND	.49	7.25	18.85	DTA124XETLTR-ND	3,000	68.00/M	DTA124XETL
	50	100	30	6.11	1.2	DTA143EETLCT-ND	.46	6.75	17.55	DTA143EETLTR-ND	3,000	63.00/M	DTA143EETL

(Continued)

Digital Transistors *(Cont.)*

Package	VCEO (V)	IO (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
SOT-416	50	100	100	6.11	—	DTC143TETLCT-ND	.46	6.75	17.55	DTC143TETLTR-ND	3,000	63.00/M	DTC143TETL
	50	100	30	6.11	2.6	DTA143XETLCT-ND	.43	6.25	16.25	DTA143XETLTR-ND	3,000	59.00/M	DTA143XETL
	50	100	80	6.11	12	DTA143ZETLCT-ND	.43	6.25	16.25	DTA143ZETLTR-ND	3,000	63.00/M	DTA143ZETL
	50	30	68	61.1	1.2	DTA144EETLCT-ND	.46	6.75	17.55	DTA144EETLTR-ND	3,000	63.00/M	DTA144EETL
	50	100	100	61.1	—	DTA144TETLCT-ND	.43	6.25	16.25	DTA144TETLTR-ND	3,000	59.00/M	DTA144TETL
	50	30	56	61.1	0.57	DTA144WETLCT-ND	.47	8.06	22.36	DTA144WETLTR-ND	3,000	92.00/M	DTA144WETL
	12	500	140	.7	10	DTB513ZETLCT-ND	.43	7.81	22.00	DTB513ZETLTR-ND	3,000	90.00/M	DTB513ZETL
VMT-3	50	70	68	13	5.7	DTA114YMT2LCT-ND	.43	7.31	20.28	DTA114YMT2LTR-ND	8,000	70.00/M	DTA114YMT2L
	50	50	30	13	1.2	DTA114EMT2LCT-ND	.43	6.25	16.25	DTA114EMT2LTR-ND	8,000	50.00/M	DTA114EMT2L
	50	100	100	13	—	DTA114TMT2LCT-ND	.43	6.25	16.25	DTA114TMT2LTR-ND	8,000	50.00/M	DTA114TMT2L
	50	20	82	130	1.2	DTA115EMT2LCT-ND	.34	5.00	13.00	—	—	—	DTA115EMT2L
	50	100	20	2.86	1.2	DTA123EMT2LCT-ND	.34	5.00	13.00	DTA123EMT2LTR-ND	8,000	40.00/M	DTA123EMT2L
	50	100	80	2.86	26	DTA123JMT2LCT-ND	.46	6.75	17.55	DTA123JMT2LTR-ND	8,000	54.00/M	DTA123JMT2L
	50	30	56	28.6	1.2	DTA124EMT2LCT-ND	.43	6.25	16.25	DTA124EMT2LTR-ND	8,000	50.00/M	DTA124EMT2L
	50	50	68	28.6	2.6	DTA124XMT2LCT-ND	.43	6.25	16.25	DTA124XMT2LTR-ND	8,000	50.00/M	DTA124XMT2L
	50	100	30	6.11	1.2	DTA143EMT2LCT-ND	.43	6.25	16.25	DTA143EMT2LTR-ND	8,000	50.00/M	DTA143EMT2L
	50	100	100	6.11	—	DTA143TMT2LCT-ND	.43	6.25	16.25	DTA143TMT2LTR-ND	8,000	50.00/M	DTA143TMT2L
	50	100	100	6.11	—	DTC143TMT2LCT-ND	.40	6.75	18.72	DTC143TMT2LTR-ND	8,000	65.00/M	DTC143TMT2L
	50	100	30	6.11	2.6	DTA143XMT2LCT-ND	.34	5.00	13.00	DTA143XMT2LTR-ND	8,000	40.00/M	DTA143XMT2L
	50	100	80	6.11	12	DTA143ZMT2LCT-ND	.43	6.25	16.25	DTA143ZMT2LTR-ND	8,000	50.00/M	DTA143ZMT2L
	50	30	68	61.1	1.2	DTA144EMT2LCT-ND	.43	6.25	16.25	DTA144EMT2LTR-ND	8,000	50.00/M	DTA144EMT2L
	30	200	140	.7	10	DTB713ZMT2LCT-ND	.45	8.28	23.32	DTB713ZMT2LTR-ND	8,000	90.00/M	DTB713ZMT2L
SC-72/SPT	50	30	68	32.9	0.8	DTC144ESATPCT-ND	.43	7.31	20.28	—	—	—	DTC144ESATP

Dual Digital Transistors

Package	VCEO (V)	IC (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
NPN													
SOT-353	50	30	56	28.6	1.2	UMG1NCT-ND	.38	7.03	19.80	UMG1NTR-ND	3,000	81.00/M	UMG1NTR
	50	30	68	61.1	1.2	UMG2NCT-ND	.38	7.03	19.80	—	—	—	UMG2NTR
	50	100	600	13	—	UMG4NCT-ND	.41	7.50	21.12	UMG4NTR-ND	3,000	86.00/M	UMG4NTR
	50	100	68	13	5.7	UMG5NCT-ND	.38	7.03	19.80	UMG5NTR-ND	3,000	81.00/M	UMG5NTR
	50	100	80	6.11	12	UMG8NCT-ND	.38	7.03	19.80	UMG8NTR-ND	3,000	81.00/M	UMG8NTR
	50	50	30	13	1.2	UMG9NCT-ND	.41	7.50	21.12	UMG9NTR-ND	3,000	86.00/M	UMG9NTR
	50	100	80	2.2	26	UMG11NCT-ND	.38	7.03	19.80	UMG11NTR-ND	3,000	81.00/M	UMG11NTR
SOT-363	50	30	56	28.6	1.2	UMH1NTNCT-ND	.38	7.03	19.80	UMH1NTNTR-ND	3,000	81.00/M	UMH1NTN
	50	30	68	61.1	1.2	UMH2NTNCT-ND	.38	7.03	19.80	—	—	—	UMH2NTN
	50	100	600	6.11	—	UMH3NTNCT-ND	.41	7.50	21.12	UMH3NTNTR-ND	3,000	86.00/M	UMH3NTN
	50	100	600	13	—	UMH4NTNCT-ND	.38	7.03	19.80	UMH4NTNTR-ND	3,000	86.00/M	UMH4NTN
	50	30	68	61.1	1.2	UMH6NCT-ND	.38	7.03	19.80	UMH6NTR-ND	3,000	81.00/M	UMH6NTR
	50	70	68	13	5.7	UMH9NTNCT-ND	.41	7.50	21.12	UMH9NTNTR-ND	3,000	86.00/M	UMH9NTN
	50	100	80	2.86	26	UMH10NTNCT-ND	.38	7.03	19.80	UMH10NTNTR-ND	3,000	81.00/M	UMH10NTN
	50	50	30	13	1.2	UMH11NTNCT-ND	.41	7.50	21.12	UMH11NTNTR-ND	3,000	86.00/M	UMH11NTN
	50	100	100	61.1	—	UMH14NCT-ND	.52	10.00	28.80	UMH14NTR-ND	3,000	136.00/M	UMH14NTR
SOT-457	50	30	56	28.6	1.2	IMH1AT110CT-ND	.41	7.88	22.68	IMH1AT110TR-ND	3,000	107.00/M	IMH1AT110
	50	30	68	61.1	1.2	IMH2AT110CT-ND	.70	10.25	26.65	IMH2AT110TR-ND	3,000	96.00/M	IMH2AT110
	50	100	600	6.11	—	IMH3AT110CT-ND	.46	8.44	23.76	IMH3AT110TR-ND	3,000	77.00/M	IMH3AT110
	50	70	68	13	5.7	IMH9AT110CT-ND	.46	8.44	23.76	IMH9AT110TR-ND	3,000	97.00/M	IMH9AT110
	50	100	80	2.86	26	IMH10AT110CT-ND	.42	7.13	19.76	IMH10AT110TR-ND	3,000	76.00/M	IMH10AT110
	50	50	30	13	1.2	IMH11AT110CT-ND	.70	10.25	26.65	IMH11AT110TR-ND	3,000	96.00/M	IMH11AT110
	50	100	100	61.1	—	IMH14AT108CT-ND	.58	11.13	32.04	IMH14AT108TR-ND	3,000	151.00/M	IMH14AT108
SMT-5	50	30	56	28.6	1.2	FMG1AT148CT-ND	.46	8.88	25.56	FMG1AT148TR-ND	3,000	128.00/M	FMG1AT148
	50	30	68	61.1	1.2	FMG2AT148CT-ND	.45	8.63	24.84	FMG2AT148TR-ND	3,000	117.00/M	FMG2AT148
	50	100	600	13	—	FMG4AT148CT-ND	.49	9.38	27.00	FMG4AT148TR-ND	3,000	128.00/M	FMG4AT148
	50	100	68	13	5.7	FMG5AT148CT-ND	.46	8.88	25.56	—	—	—	FMG5AT148
	50	100	80	6.11	12	FMG8AT148CT-ND	.51	8.64	23.97	FMG8AT148TR-ND	3,000	92.00/M	FMG8AT148
	50	50	30	13	1.2	FMG9AT148CT-ND	.49	9.38	27.00	FMG9AT148TR-ND	3,000	128.00/M	FMG9AT148
	50	100	80	2.2	26	FMG11AT148CT-ND	.48	8.75	24.64	FMG11AT148TR-ND	3,000	101.00/M	FMG11AT148
EMT-5	50	30	56	28.6	1.2	EMG1T2RCT-ND	.46	8.44	23.76	EMG1T2RTR-ND	8,000	92.00/M	EMG1T2R
	50	30	68	61.1	1.2	EMG2T2RCT-ND	.46	8.44	23.76	—	—	—	EMG2T2R
	50	100	100	13	—	EMG4T2RCT-ND	.46	8.44	23.76	EMG4T2RTR-ND	8,000	97.00/M	EMG4T2R
	50	70	68	13	5.7	EMG5T2RCT-ND	.46	8.44	23.76	EMG5T2RTR-ND	8,000	92.00/M	EMG5T2R
	50	100	80	6.11	12	EMG8T2RCT-ND	.46	8.44	23.76	EMG8T2RTR-ND	8,000	92.00/M	EMG8T2R
	50	50	30	13	1.2	EMG9T2RCT-ND	.46	8.44	23.76	EMG9T2RTR-ND	8,000	97.00/M	EMG9T2R
	50	100	80	2.2	26	EMG11T2RCT-ND	.44	7.50	20.80	EMG11T2RTR-ND	8,000	72.00/M	EMG11T2R
EMT-6	50	30	56	28.6	1.2	EMH1T2RCT-ND	.48	8.91	25.08	EMH1T2RTR-ND	8,000	97.00/M	EMH1T2R
	50	30	68	61.1	1.2	EMH2T2RCT-ND	.48	8.91	25.08	EMH2T2RTR-ND	8,000	97.00/M	EMH2T2R
	50	100	600	6.11	—	EMH3T2RCT-ND	.48	8.91	25.08	EMH3T2RTR-ND	8,000	97.00/M	EMH3T2R
	50	100	600	13	—	EMH4T2RCT-ND	.46	8.44	23.76	EMH4T2RTR-ND	8,000	97.00/M	EMH4T2R
	50	30	68	61.1	1.2	EMH6T2RCT-ND	.48	8.91	25.08	EMH6T2RTR-ND	8,000	97.00/M	EMH6T2R
	50	70	68	13	5.7	EMH9T2RCT-ND	.50	9.63	27.72	EMH9T2RTR-ND	8,000	131.00/M	EMH9T2R
	50	100	80	2.86	26	EMH10T2RCT-ND	.46	8.44	23.76	EMH10T2RTR-ND	8,000	97.00/M	EMH10T2R
	50	50	30	13	1.2	EMH11T2RCT-ND	.48	8.91	25.08	EMH11T2RTR-ND	8,000	97.00/M	EMH11T2R
	50	150	120	—	—	EMX3T2RCT-ND	.46	8.44	23.76	EMX3T2RTR-ND	8,000	97.00/M	EMX3T2R
	12	500	680	—	—	EMX18T2RCT-ND	.52	10.30	30.90	EMX18T2RTR-ND	8,000	153.00/M	EMX18T2R
PNP													
SOT-353	50	30	68	61.1	1.2	UMA2NCT-ND	.38	7.03	19.80	UMA2NTR-ND	3,000	81.00/M	UMA2NTR
	50	100	68	10	5.7	UMA8NCT-ND	.38	7.03	19.80	UMA8NTR-ND	3,000	81.00/M	UMA8NTR
	50	50	30	13	1.2	UMA9NCT-ND	.38	7.03	19.80	UMA9NTR-ND	3,000	81.00/M	UMA9NTR
SOT-363	50	30	68	61.1	1.2	UMB2NTNCT-ND	.38	7.03	19.80	UMB2NTNTR-ND	3,000	81.00/M	UMB2NTN
	50	100	600	13	—	UMB4NTNCT-ND	.38	7.03	19.80	UMB4NTNTR-ND	3,000	81.00/M	UMB4NTN
	50	100	80	2.86	26	UMB10NTNCT-ND	.41	7.50	21.12	UMB10NTNTR-ND	3,000	86.00/M	UMB10NTN
	50	50	30	13	1.2	UMB11NTNCT-ND	.38	7.03	19.80	UMB11NTNTR-ND	3,000	86.00/M	UMB11NTN
SOT-428	50	70	68	13	5.7	UMB9NTNCT-ND	.38	7.03	19.80	UMB9NTNTR-ND	3,000	81.00/M	UMB9NTN

(Continued)

Dual Digital Transistors *(Cont.)*

Package	VCEO (V)	IC (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
SOT-457	50	30	68	61.1	1.2	IMB2AT110CT-ND	.41	7.88	22.68	IMB2AT110TR-ND	3,000	107.00/M	IMB2AT110
	50	100	600	13	—	IMB4AT110CT-ND	.41	7.88	22.68	IMB4AT110TR-ND	3,000	107.00/M	IMB4AT110
	50	100	80	2.86	26	IMB10AT110CT-ND	.42	7.13	19.76	—	—	—	IMB10AT110
	50	50	30	13	1.2	IMB11AT110CT-ND	.45	7.69	21.32	IMB11AT110TR-ND	3,000	82.00/M	IMB11AT110
	50	70	68	13	5.7	IMB9AT110CT-ND	.44	8.38	24.12	IMB9AT110TR-ND	3,000	114.00/M	IMB9AT110
SMT-5	50	100	68	10	5.7	FMA8AT148CT-ND	.41	7.88	22.68	—	—	—	FMA8AT148
	50	50	30	13	1.2	FMA9AT148CT-ND	.49	9.38	27.00	FMA9AT148TR-ND	3,000	128.00/M	FMA9AT148
EMT-5	50	30	68	61.1	1.2	EMA2T2RCT-ND	.46	8.44	23.76	EMA2T2RTR-ND	8,000	97.00/M	EMA2T2R
	50	100	68	10	5.7	EMA8T2RCT-ND	.46	8.44	23.76	EMA8T2RTR-ND	8,000	92.00/M	EMA8T2R
EMT-6	50	30	68	61.1	1.2	EMB2T2RCT-ND	.46	8.44	23.76	EMB2T2RTR-ND	8,000	97.00/M	EMB2T2R
	50	100	600	13	—	EMB4T2RCT-ND	.46	8.44	23.76	EMB4T2RTR-ND	8,000	92.00/M	EMB4T2R
	50	70	68	13	5.7	EMB9T2RCT-ND	.46	8.44	23.76	EMB9T2RTR-ND	8,000	92.00/M	EMB9T2R
	50	100	80	2.86	26	EMB10T2RCT-ND	.46	8.44	23.76	EMB10T2RTR-ND	8,000	97.00/M	EMB10T2R
	50	50	30	13	1.2	EMB11T2RCT-ND	.46	8.44	23.76	—	—	—	EMB11T2R
PNP/NPN													
SOT-353	50	150	120	—	—	UMY1NCT-ND	.40	6.75	18.72	UMY1NTR-ND	3,000	72.00/M	UMY1NTR
SOT-363	50	30	56	28.6	1.2	UMD2NCT-ND	.41	7.50	21.12	UMD2NTR-ND	3,000	86.00/M	UMD2NTR
	50	50	30	13	1.2	UMD3NCT-ND	.46	7.88	21.84	UMD3NTR-ND	3,000	84.00/M	UMD3N
	50	100	100	6.11	—	UMD6NCT-ND	.38	7.03	19.80	UMD6NTR-ND	3,000	81.00/M	UMD6NTR
	50	70	68	13	5.7	UMD9NCT-ND	.41	7.50	21.12	UMD9NTR-ND	3,000	86.00/M	UMD9NTR
	50	30	68	61.1	1.2	UMD12NCT-ND	.41	7.50	21.12	UMD12NTR-ND	3,000	86.00/M	UMD12NTR
	50	150	120	—	—	UMZ2NCT-ND	.46	7.88	21.84	UMZ2NTR-ND	3,000	84.00/M	UMZ2NTR
SOT-457	50	30	56	28.6	1.2	IMD2AT108CT-ND	.44	8.13	22.88	—	—	—	IMD2AT108
	50	100	30	13	1.2	IMD3AT108CT-ND	.47	8.59	24.20	IMD3AT108TR-ND	3,000	99.00/M	IMD3AT108
	50	100	600	6.11	—	IMD6AT108CT-ND	.44	8.13	22.88	IMD6AT108TR-ND	3,000	99.00/M	IMD6AT108
	50	100	68	13	5.7	IMD9AT108CT-ND	.47	8.59	24.20	IMD9AT108TR-ND	3,000	99.00/M	IMD9AT108
	50 50	500 100	68 600	130 13	120 —	IMD10AT108CT-ND	.59	10.80	30.40	IMD10AT108TR-ND	3,000	124.00/M	IMD10AT108
	50	500	82	2.86	1.2	IMD16AT108CT-ND	.49	9.38	27.00	IMD16AT108TR-ND	3,000	128.00/M	IMD16AT108
	32	500	120	—	—	IMZ4T108CT-ND	.46	8.44	23.76	IMZ4T108TR-ND	3,000	103.00/M	IMZ4T108
SMT-5	50	150	120	—	—	FMY1AT148CT-ND	.47	9.00	25.92	FMY1AT148TR-ND	3,000	122.00/M	FMY1AT148
EMT-5	50	150	120	—	—	EMY1T2RCT-ND	.46	8.44	23.76	EMY1T2RTR-ND	8,000	97.00/M	EMY1T2R
EMT-6	50	30	56	28.6	1.2	EMD2T2RCT-ND	.46	8.44	23.76	EMD2T2RTR-ND	8,000	97.00/M	EMD2T2R
	50	50	30	13	1.2	EMD3T2RCT-ND	.48	8.91	25.08	EMD3T2RTR-ND	8,000	97.00/M	EMD3T2R
	50 50	100 100	68 68	61.1 13	1.2 5.7	EMD4T2RCT-ND	.48	8.75	24.64	EMD4T2RTR-ND	8,000	95.00/M	EMD4T2R
	50 50	100 100	68 30	61.1 6.11	1.2 2.6	EMD5T2RCT-ND	.48	8.91	25.08	EMD5T2RTR-ND	8,000	97.00/M	EMD5T2R
	50	100	100	6.11	—	EMD6T2RCT-ND	.46	8.44	23.76	EMD6T2RTR-ND	8,000	97.00/M	EMD6T2R
	50	70	68	13	5.7	EMD9T2RCT-ND	.48	8.91	25.08	EMD9T2RTR-ND	8,000	97.00/M	EMD9T2R
	50	30	68	61.1	1.2	EMD12T2RCT-ND	.46	8.44	23.76	—	—	—	EMD12T2R

Dual Transistors

Package	VCEO (V)	VCBO (V)	IC (mA)	HFE Max.	VCE Sat. (V)	VCE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
						IC (mA)	IB (mA)		1	25	100		Qty.	Pricing	
NPN															
SOT-363	50	60	150	560	0.4	50	5	UMX1NTNCT-ND	.46	7.88	21.84	UMX1NTNTR-ND	3,000	84.00/M	UMX1NTN
	50	60	150	560	0.4	50	5	UMX2NTRCT-ND	.46	7.88	21.84	UMX2NTRTR-ND	3,000	84.00/M	UMX2NTR
	50	60	150	560	0.4	50	5	UMX3NTRCT-ND	.57	8.45	21.97	UMX3NTRTR-ND	3,000	79.00/M	UMX3NTR
	20	30	50	270	0.5	20	4	UMX4NCT-ND	.47	8.59	24.20	UMX4NTR-ND	3,000	99.00/M	UMX4NTR
	11	20	50	270	0.5	10	5	UMX5NCT-ND	.46	8.88	25.56	UMX5NTR-ND	3,000	121.00/M	UMX5NTR
	12	15	500	680	.25	200	10	UMX18NTNCT-ND	.53	10.25	29.52	UMX18NTNTR-ND	3,000	139.00/M	UMX18NTN
SOT-457	50	60	150	560	0.4	50	5	IMX1T110CT-ND	.48	8.25	22.88	IMX1T110TR-ND	3,000	88.00/M	IMX1T110
	50	60	150	560	0.4	50	5	IMX2T108CT-ND	.70	10.25	26.65	IMX2T108TR-ND	3,000	96.00/M	IMX2T108
	50	60	150	560	0.4	50	5	IMX3T108CT-ND	.46	8.88	25.56	IMX3T108TR-ND	3,000	128.00/M	IMX3T108
	20	30	50	270	0.5	20	4	IMX4T108CT-ND	.55	10.90	32.70	IMX4T108TR-ND	3,000	173.00/M	IMX4T108
	11	20	50	120	0.5	10	5	IMX5T108CT-ND	.46	8.76	25.24	IMX5T108TR-ND	3,000	119.00/M	IMX5T108
	120	120	50	820	0.5	10	1	IMX8T108CT-ND	.46	8.52	23.98	IMX8T108TR-ND	3,000	98.00/M	IMX8T108
	20	25	500	2,700	0.4	500	20	IMX9T110CT-ND	.48	8.91	25.08	IMX9T110TR-ND	3,000	103.00/M	IMX9T110
	50	60	500	390	0.6	500	50	IMX17T110CT-ND	.48	8.91	25.08	IMX17T110TR-ND	3,000	103.00/M	IMX17T110
EMT-6	50	60	150	560	0.4	50	5	EMX1T2RCT-ND	.48	8.91	25.08	EMX1T2RTR-ND	8,000	97.00/M	EMX1T2R
	50	60	150	560	0.4	50	5	EMX2T2RCT-ND	.48	8.91	25.08	EMX2T2RTR-ND	8,000	97.00/M	EMX2T2R
	30	30	50	270	0.5	20	4	EMX4T2RCT-ND	.62	12.30	36.90	EMX4T2RTR-ND	8,000	172.00/M	EMX4T2R
	11	20	50	120	0.5	10	5	EMX5T2RCT-ND	.58	11.60	34.80	EMX5T2RTR-ND	8,000	172.00/M	EMX5T2R
PNP															
SOT-363	50	60	150	560	0.5	50	5	UMT1NTNCT-ND	.45	7.69	21.32	UMT1NTNTR-ND	3,000	82.00/M	UMT1NTN
	12	15	500	680	0.25	200	10	UMF5NCT-ND	.58	11.13	32.04	UMF5NTR-ND	3,000	151.00/M	UMF5NTR
	50	60	150	560	0.5	50	5	UMT2NCT-ND	.45	7.69	21.32	UMT2NTR-ND	3,000	82.00/M	UMT2NTR
SOT-457	120	120	50	820	0.5	10	1	IMT4T108CT-ND	.46	8.52	23.98	IMT4T108TR-ND	3,000	98.00/M	IMT4T108
	50	60	150	560	0.5	50	5	IMT1AT110CT-ND	.52	8.81	24.44	IMT1AT110TR-ND	3,000	94.00/M	IMT1AT110
	50	60	150	560	0.5	50	5	IMT2AT108CT-ND	.45	9.00	27.00	—	—	—	IMT2AT108
	50	60	500	390	0.6	500	50	IMT17T110CT-ND	.48	8.91	25.08	IMT17T110TR-ND	3,000	103.00/M	IMT17T110
EMT-6	50	60	150	560	0.5	50	5	EMT1T2RCT-ND	.48	8.91	25.08	EMT1T2RTR-ND	8,000	97.00/M	EMT1T2R
	50	60	150	560	0.5	50	5	EMT2T2RCT-ND	.48	8.91	25.08	EMT2T2RTR-ND	8,000	97.00/M	EMT2T2R
PNP/NPN															
SOT-363	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	UMZ1NTRCT-ND	.37	6.34	17.58	UMZ1NTRTR-ND	3,000	68.00/M	UMZ1NTR
SOT-457	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ2AT108CT-ND	.46	8.44	23.76	—	—	—	IMZ2AT108
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ1AT108CT-ND	.45	8.28	23.32	IMZ1AT108TR-ND	3,000	95.00/M	IMZ1AT108
EMT-6	12 12	15 15	500 100	680 30	0.25 0.25	200 200	10 10	EMF21T2RCT-ND	.50	9.22	25.96	EMF21T2RTR-ND	8,000	100.00/M	EMF21T2R
	12 12	15 15	500 100	680 68	0.25 0.25	200 200	10 10	EMF5T2RCT-ND	.50	9.63	27.72	EMF5T2RTR-ND	8,000	131.00/M	EMF5T2R
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	EMZ1T2RCT-ND	.46	8.44	23.76	—	—	—	EMZ1T2R
	12 12	15 15	500 500	680 680	.25 .25	200 200	10 10	EMZ7T2RCT-ND	.52	10.30	30.90	EMZ7T2RTR-ND	8,000	153.00/M	EMZ7T2R
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	EMZ2T2RCT-ND	.46	8.44	23.76	EMZ2T2RTR-ND	8,000	97.00/M	EMZ2T2R
PNP/DTR															
SOT-363	12	15	500	680	250	200	10	UMF21NCT-ND	.44	8.50	24.48	UMF21NTR-ND	3,000	116.00/M	UMF21NTR

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

General Purpose Transistors

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
									1	25	100	Qty.	Pricing	
								NPN						
SOT-89	20	40	3	390	0.5	2A	100	2SD2150T100RCT-ND	.55	10.90	32.70	1,000	174.00	2SD2150T100R
	20	50	5	390	1.0	4A	100	2SD2098T100RCT-ND	.80	16.02	48.06	1,000	276.00	2SD2098T100R
	20	40	3	560	0.5	2A	100	2SD2150T100SCT-ND	.52	10.30	30.90	1,000	174.00	2SD2150T100S
	25	30	1.2	1,800	0.3	500	10	2SD2537T100VCT-ND	.80	15.93	47.79	—	—	2SD2537T100V
	25	30	2	2,700	0.5	1	20	2SD2153T100VCT-ND	.99	19.80	59.40	1,000	341.00	2SD2153T100V
	30	30	1.5	680	0.35	1A	50	2SD2662T100CT-ND	.64	12.80	38.40	1,000	205.00	2SD2662T100
	32	40	1	390	0.4	500	50	2SD1664T100QCT-ND	.48	8.75	24.64	1,000	162.00	2SD1664T100Q
	32	40	1	390	0.4	500	50	2SD1664T100RCT-ND	.55	10.63	30.60	1,000	162.00	2SD1664T100R
	32	40	2	390	0.8	2A	200	2SD1766T100QCT-ND	.45	9.00	27.00	1,000	197.00	2SD1766T100Q
	32	40	2	390	0.8	2A	200	2SD1766T100RCT-ND	.56	10.75	30.96	1,000	221.00	2SD1766T100R
	50	60	3	270	0.35	1A	50	2SC4672T100PCT-ND	.74	14.85	44.55	1,000	256.00	2SC4672T100P
	50	60	3	270	0.35	1A	50	2SC4672T100QCT-ND	.83	16.50	49.50	1,000	264.00	2SC4672T100Q
	50	60	1	270	0.4	500	50	2SC5053T100RCT-ND	.47	9.30	27.90	1,000	149.00	2SC5053T100R
	50	60	1	—	0.4	500	50	2SC5053T100QCT-ND	.57	11.01	31.72	1,000	159.00	2SC5053T100Q
	60	60	2	270	0.35	1A	50	2SD2391T100QCT-ND	.77	15.30	45.90	1,000	264.00	2SD2391T100Q
	80	100	1	270	0.4	500	20	2SD1898T100QCT-ND	.49	9.70	29.10	1,000	155.00	2SD1898T100Q
	80	120	1	390	0.4	500	20	2SD1898T100RCT-ND	.49	9.70	29.10	1,000	155.00	2SD1898T100R
	80	80	0.7	390	0.4	500	50	2SD1767T100QCT-ND	.75	15.00	45.00	1,000	240.00	2SD1767T100Q
	80	80	0.7	390	0.4	500	50	2SD1767T100RCT-ND	.71	14.20	42.60	1,000	227.00	2SD1767T100R
	90	90	2	10K	1.5	1A	1	2SD2170T100CT-ND	.61	12.20	36.60	1,000	248.00	2SD2170T100
	120	120	2	390	2	1A	100	2SC4132T100QCT-ND	.96	19.20	57.60	1,000	307.00	2SC4132T100Q
	120	120	2	390	2	1A	100	2SC4132T100RCT-ND	.65	12.90	38.70	—	—	2SC4132T100R
	400	400	0.1	270	0.5	10	1	2SC4505T100PCT-ND	.96	19.17	57.51	1,000	330.00	2SC4505T100P
	400	400	0.1	270	0.5	10	1	2SC4505T100QCT-ND	.96	19.17	57.51	—	—	2SC4505T100Q
SOT-323	6	12	50mA	560	0.3	10	1	2SC4774T106SCT-ND	.41	7.50	21.12	3,000	86.00/M	2SC4774T106S
	11	20	50mA	180	0.5	10	5	2SC4083T106NCT-ND	.58	8.60	22.36	3,000	81.00/M	2SC4083T106N
	11	20	50mA	180	0.5	10	5	2SC4083T106PCT-ND	.58	8.60	22.36	3,000	81.00/M	2SC4083T106P
	12	15	1.5	680	0.2	500	25	2SD2652T106CT-ND	.56	10.75	30.96	3,000	155.00/M	2SD2652T106
	20	30	50mA	180	0.5	20	4	2SC4082T106PCT-ND	.41	7.50	21.12	—	—	2SC4082T106P
	25	40	50mA	180	0.35	10	1	2SC4098T106PCT-ND	.41	7.50	21.12	—	—	2SC4098T106P
	30	30	1	680	0.35	500	25	2SD2656T106CT-ND	.50	9.63	27.72	3,000	131.00/M	2SD2656T106
	32	40	0.5	390	0.6	500	50	2SC4097T106QCT-ND	.47	8.06	22.36	3,000	92.00/M	2SC4097T106Q
	32	40	0.5	390	0.6	500	50	2SC4097T106RCT-ND	.51	8.63	23.92	3,000	92.00/M	2SC4097T106R
	40	75	0.6	75	1	500	50	UMT2222AT106CT-ND	.49	7.18	18.66	3,000	67.00/M	UMT2222AT106
	40	60	0.2	300	0.3	50	5	UMT3904T106CT-ND	.49	7.18	18.66	3,000	67.00/M	UMT3904T106
	50	60	0.15	270	0.4	50	5	2SC4081T106QCT-ND	.37	5.50	14.30	3,000	52.00/M	2SC4081T106Q
	50	60	0.15	390	0.4	50	5	2SC4081T106RCT-ND	.37	5.50	14.30	3,000	52.00/M	2SC4081T106R
	50	60	0.15	2,700	0.3	50	5	2SD2351T106VCT-ND	.46	8.44	23.76	3,000	103.00/M	2SD2351T106V
	50	60	0.15	2,700	0.3	50	5	2SD2351T106WCT-ND	.45	8.28	23.32	3,000	101.00/M	2SD2351T106W
	50	50	0.5	390	0.4	150	15	2SD1949T106QCT-ND	.46	8.44	23.76	—	—	2SD1949T106Q
	50	50	0.5	390	0.4	150	15	2SD1949T106RCT-ND	.48	8.91	25.08	3,000	103.00/M	2SD1949T106R
	60	60	0.5	390	0.3	100	10	2SC5876T106QCT-ND	.59	11.25	32.40	3,000	153.00/M	2SC5876T106Q
	60	60	0.5	390	0.3	100	10	2SC5876T106RCT-ND	.55	10.63	30.60	3,000	153.00/M	2SC5876T106R
	120	120	50mA	560	0.5	10	1	2SC4102T106RCT-ND	.64	10.88	30.16	3,000	116.00/M	2SC4102T106R
	120	120	50mA	560	0.5	10	1	2SC4102T106SCT-ND	.49	9.06	25.52	—	—	2SC4102T106S
SOT-346	6	12	50mA	560	0.3	10	1	2SC4713KT146SCT-ND	.49	9.38	27.00	3,000	128.00/M	2SC4713KT146S
	11	20	50mA	180	0.5	10	5	2SC3838KT146NCT-ND	.58	9.83	27.25	3,000	105.00/M	2SC3838KT146N
	11	20	50mA	180	0.5	10	5	2SC3838KT146PCT-ND	.46	7.88	21.84	3,000	105.00/M	2SC3838KT146P
	12	15	2	680	0.18	1A	50	2SD2653KT146CT-ND	.55	10.90	32.70	3,000	164.00/M	2SD2653KT146
	15	15	1	390	0.3	400	20	2SD2444KT146RCT-ND	.50	9.90	29.70	3,000	158.00/M	2SD2444KT146R
	15	30	0.5	560	0.4	500	50	2SD1757KT146QCT-ND	.46	9.20	27.60	—	—	2SD1757KT146Q
	15	30	0.5	560	0.4	500	50	2SD1757KT146RCT-ND	.46	9.20	27.60	3,000	147.00/M	2SD1757KT146R
	20	30	50mA	180	0.5	20	4	2SC3837KT146PCT-ND	.43	8.25	23.76	3,000	112.00/M	2SC3837KT146P
	20	25	0.5	2,700	0.4	500	20	2SD2114KT146VCT-ND	.43	7.31	20.28	3,000	84.00/M	2SD2114KT146V
	20	25	0.5	2,700	0.4	500	20	2SD2114KT146WCT-ND	.43	7.31	20.28	3,000	84.00/M	2SD2114KT146W
	20	50	0.3	2,700	0.1	30	3	2SD2704KT146CT-ND	.44	7.50	20.80	3,000	80.00/M	2SD2704KT146
	25	40	50mA	180	0.3	10	1	2SC2413KT146PCT-ND	.48	8.91	25.08	3,000	103.00/M	2SC2413KT146P
	30	30	1.5	680	.35	1A	50	2SD2657KT146CT-ND	.42	8.13	23.40	3,000	138.00/M	2SD2657KT146
	32	40	0.5	390	0.6	500	50	2SC2411KT146QCT-ND	.46	7.88	21.84	3,000	84.00/M	2SC2411KT146Q
	32	40	0.5	390	0.6	500	50	2SC2411KT146RCT-ND	.43	7.31	20.28	—	—	2SC2411KT146R
	32	40	0.3	5,000min.	1.5	200	0.4	2SD1383KT146BCT-ND	.58	11.13	32.04	3,000	151.00/M	2SD1383KT146B
	32	40	0.8	390	0.4	500	50	2SD1781KT146QCT-ND	.46	7.88	21.84	3,000	84.00/M	2SD1781KT146Q
	32	40	0.8	390	0.4	500	50	2SD1781KT146RCT-ND	.43	7.31	20.28	3,000	84.00/M	2SD1781KT146R
	40	60	0.2	300	0.2	10	1	MMST3904T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST3904T146
	40	75	0.6	75	1	500	50	MMST2222AT146CT-ND	.33	5.63	15.60	3,000	64.00/M	MMST2222AT146
	40	60	0.6	80	0.75	500	50	MMST4401T146CT-ND	.60	8.80	22.88	3,000	83.00/M	MMST4401T146
	50	60	0.15	270	0.4	50	5	2SC2412KT146QCT-ND	.31	4.50	11.70	3,000	42.00/M	2SC2412KT146Q
	50	60	0.15	390	0.4	50	5	2SC2412KT146RCT-ND	.31	4.50	11.70	3,000	42.00/M	2SC2412KT146R
	50	60	0.15	560	0.4	50	5	2SC2412KT146SCT-ND	.32	4.75	12.35	3,000	45.00/M	2SC2412KT146S
	80	80	0.5	100min.	0.25	100	10	MMSTA06T146CT-ND	.53	9.69	27.28	3,000	112.00/M	MMSTA06T146
	50	50	0.5	390	0.4	150	15	2SD1484KT146QCT-ND	.33	5.63	15.60	3,000	60.00/M	2SD1484KT146Q
	50	50	0.5	390	0.4	150	15	2SD1484KT146RCT-ND	.33	5.63	15.60	3,000	60.00/M	2SD1484KT146R
	80	80	0.5	390	0.5	500	50	2SD1782KT146RCT-ND	.48	8.75	24.64	3,000	101.00/M	2SD1782KT146R
	80	80	0.5	390	0.5	500	50	2SD1782KT146QCT-ND	.48	8.75	24.64	3,000	101.00/M	2SD1782KT146Q
	120	120	50mA	560	0.5	10	1	2SC3906KT146RCT-ND	.48	8.91	25.08	—	—	2SC3906KT146R
	120	120	50mA	560	0.5	10	1	2SC3906KT146SCT-ND	.48	8.91	25.08	3,000	110.00/M	2SC3906KT146S
	300	300	0.1	180	2	50	5	2SC4061KT146NCT-ND	.54	10.38	29.88	—	—	2SC4061KT146N
SOT-416	11	20	50mA	180	0.5	10	5	2SC4726TLPCT-ND	.48	9.50	28.50	3,000	143.00/M	2SC4726TLP
	12	15	0.5	680	0.25	200	10	2SC5585TLCT-ND	.54	9.84	27.72	3,000	113.00/M	2SC5585TL
	20	30	50mA	180	0.5	20	4	2SC4725TLPCT-ND	.55	10.63	30.60	3,000	153.00/M	2SC4725TLP
	25	40	50mA	180	0.3	10	1	2SC4618TLNCT-ND	.40	7.75	22.32	—	—	2SC4618TLN
	25	40	50mA	180	0.3	10	1	2SC4618TLPCT-ND	.40	7.75	22.32	3,000	105.00/M	2SC4618TLP

† For Tape and Reel part number, change CT-ND to TR-ND.   ‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

General Purpose Transistors *(Cont.)*

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
									1	25	100	Qty.	Pricing	
SOT-416	50	60	0.15	2,700	0.3	50	5	2SD2654TLVCT-ND	.41	7.88	22.68	3,000	114.00/M	2SD2654TLV
	50	60	0.15	270	0.4	50	5	2SC4617TLQCT-ND	.37	5.50	14.30	3,000	52.00/M	2SC4617TLQ
	50	60	0.15	390	0.4	50	5	2SC4617TLRCT-ND	.37	5.50	14.30	3,000	52.00/M	2SC4617TLR
VMT-3	11	20	50mA	180	0.5	10	5	2SC5662T2LPCT-ND	.44	8.38	24.12	8,000	107.00/M	2SC5662T2LP
	12	15	0.5	680	0.25	200	10	2SC5663T2LCT-ND	.49	9.50	27.36	8,000	122.00/M	2SC5663T2L
	20	30	50mA	180	0.5	20	4	2SC5661T2LPCT-ND	.47	9.30	27.90	—	—	2SC5661T2LP
	25	40	50mA	180	0.3	10	1	2SC5659T2LNCT-ND	.45	7.69	21.32	8,000	85.00/M	2SC5659T2LN
	25	40	50mA	180	0.3	10	1	2SC5659T2LPCT-ND	.45	7.69	21.32	8,000	82.00/M	2SC5659T2LP
	50	60	0.15	560	0.4	50	5	2SC5658T2LRCT-ND	.42	7.13	19.76	—	—	2SC5658T2LR
	50	60	0.15	270	0.4	50	5	2SC5658T2LQCT-ND	.45	7.69	21.32	8,000	74.00/M	2SC5658T2LQ
	50	60	0.15	2,700	0.3	50	5	2SD2707T2LVCT-ND	.48	8.91	25.08	8,000	105.00/M	2SD2707T2LV
SOT-428	20	30	10	390	0.25	4A	50	2SC5001TLQCT-ND	1.13	24.38	75.00	2,500	399.00/M	2SC5001TLQ
	20	30	10	390	0.25	4A	50	2SC5001TLRCT-ND	.98	19.62	58.86	—	—	2SC5001TLR
	20	50	5	390	1	4A	100	2SD2118TLQCT-ND	.75	15.03	45.09	2,500	275.00/M	2SD2118TLQ
	20	50	5	390	1	4A	100	2SD2118TLRCT-ND	.87	17.37	52.11	2,500	275.00/M	2SD2118TLR
	32	40	2	390	0.8	2A	200	2SD1758TLQCT-ND	.79	15.84	47.52	2,500	251.00/M	2SD1758TLQ
	32	40	2	390	0.8	2A	200	2SD1758TLRCT-ND	.79	15.84	47.52	2,500	251.00/M	2SD1758TLR
	50	60	3	390	1	2A	200	2SD1760TLQCT-ND	.86	17.19	51.57	2,500	272.00/M	2SD1760TLQ
	50	60	3	390	1	2A	200	2SD1760TLRCT-ND	.86	17.19	51.57	2,500	272.00/M	2SD1760TLR
	60	80	3	1,800	1	2A	50	2SD2318TLVCT-ND	1.01	21.94	67.50	2,500	392.00/M	2SD2318TLV
	60	80	3	1,800	1	2A	50	2SD2318TLUCT-ND	1.11	23.97	73.75	2,500	392.00/M	2SD2318TLU
	60	100	5	270	0.3	3A	150	2SC5103TLQCT-ND	1.12	24.29	74.75	2,500	398.00/M	2SC5103TLQ
	80	120	1	390	0.4	500	20	2SD1733TLQCT-ND	1.13	22.68	68.04	2,500	359.00/M	2SD1733TLQ
	80	120	1	390	0.4	500	20	2SD1733TLRCT-ND	1.13	22.68	68.04	2,500	359.00/M	2SD1733TLR
SOT-23	40	75	0.6	75	1	500	50	SST2222AT116CT-ND	.41	6.08	15.80	3,000	57.00/M	SST2222AT116
	40	60	0.6	80	0.75	500	50	SST4401T116CT-ND	.72	10.58	27.50	3,000	99.00/M	SST4401T116
	80	80	0.3	—	1.2	100	0.1	SSTA28T116CT-ND	.77	13.07	36.24	3,000	139.00/M	SSTA281T116
	80	80	0.5	100	0.25	100	10	SSTA06T116CT-ND	.36	6.19	17.16	—	—	SSTA06T116
TUMT-3	12	15	2	680	0.18	1A	50	2SD2700TLCT-ND	.55	11.00	33.00	3,000	165.00/M	2SD2700TL
	12	15	2	680	0.35	1A	50	2SD2701TLCT-ND	.55	11.00	33.00	3,000	165.00/M	2SD2701TL
TUMT-6	12	15	2	680	.18	1A	50	US6X5CT-ND	.70	14.00	42.00	3,000	220.00/M	US6X5TR
	30	30	1.5	680	.35	1A	50	US6X6CT-ND	.70	14.00	42.00	3,000	220.00/M	US6X6TR
TSMT-3	12	15	2	680	0.18	1A	50	2SD2653TLCT-ND	.61	12.20	36.60	3,000	183.00/M	2SD2653TL
	12	15	3	680	.25	1.5A	30	2SD2670TLCT-ND	.58	11.60	34.80	3,000	174.00/M	2SD2670TL
	30	30	1.5	680	0.35	1A	50	2SD2657TLCT-ND	.45	9.00	27.00	3,000	135.00/M	2SD2657TL
	30	30	3	680	0.25	1.5A	30	2SD2673TLCT-ND	.74	14.80	44.40	3,000	236.00/M	2SD2673TL
	30	30	1	680	.35	500	25	2SD2675TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SD2675TL
	30	30	1	390	0.3	500	50	2SC5730TLQCT-ND	.52	10.00	28.80	3,000	136.00/M	2SC5730TLQ
	30	30	1	390	0.3	500	50	2SC5730TLRCT-ND	.52	10.00	28.80	3,000	136.00/M	2SC5730TLR
	30	30	2	390	0.4	1A	100	2SC5916TLQCT-ND	.46	8.88	25.56	3,000	121.00/M	2SC5916TLQ
	30	30	2	390	0.4	1A	100	2SC5916TLRCT-ND	.46	8.88	25.56	3,000	121.00/M	2SC5916TLR
TSMT-6	12	15	2	680	.18	1A	50	QSX5CT-ND	.60	12.00	36.00	3,000	191.00/M	QSX5TR
	30	30	1.5	680	.35	1A	50	QSX6CT-ND	.60	12.00	36.00	3,000	191.00/M	QSX6TR
SPT	20	40	3	390	0.5	2A	100	2SC4115STPRCT-ND‡	.50	9.63	27.72	5,000	152.00/M	2SC4115STPR
	50	60	0.15	560	0.4	50	5	2SC1740STPQCT-ND‡	.41	6.00	15.60	—	—	2SC1740STPQ
	50	50	0.5	390	0.4	150	15	2SC1741ASTPQCT-ND‡	.37	6.38	17.68	—	—	2SC1741ASTPQ
SC-72/SPT	20	25	0.5	2,700	0.4	500	20	2SD2144STPVCT-ND‡	.38	7.03	19.80	5,000	86.00/M	2SD2144STPV
	50	60	0.15	390	0.4	50	5	2SC1740STPRCT-ND‡	.60	8.75	22.75	5,000	70.00/M	2SC1740STPR
ATV	20	50	5	390	1	4A	100	2SD2097TV2QCT-ND‡	.81	16.20	48.60	2,500	271.00/M	2SD2097TV2Q
	20	50	5	390	1	4A	100	2SD2097TV2RCT-ND‡	.81	16.20	48.60	2,500	257.00/M	2SD2097TV2R
	80	100	1	390	0.4	500	20	2SD1863TV2RCT-ND‡	.65	12.90	38.70	2,500	194.00/M	2SD1863TV2R
	80	120	1	390	0.4	500	20	2SD1863TV2QCT-ND‡	.65	12.90	38.70	2,500	194.00/M	2SD1863TV2Q
	50	60	3	390	1	2A	200	2SD1864TV2QCT-ND‡	1.09	21.78	65.34	2,500	365.00/M	2SD1864TV2Q
	50	60	3	390	1	2A	200	2SD1864TV2RCT-ND‡	1.09	21.78	65.34	2,500	365.00/M	2SD1864TV2R
	80	80	0.7	390	0.4	500	50	2SD1859TV2QCT-ND‡	.69	13.80	41.40	2,500	219.00/M	2SD1859TV2Q
	80	80	0.7	390	0.4	500	50	2SD1859TV2RCT-ND‡	.69	13.80	41.40	2,500	219.00/M	2SD1859TV2R
TO-200FP	60	80	3	320	1	2A	200	2SD2096T114ECT-ND	1.31	28.44	87.50	1,000	508.00	2SD2096T114E
	160	160	1.5	200	2	1A	100	2SD2033AT114ECT-ND	1.58	34.13	105.00	1,000	609.00	2SD2033AT114E
								PNP						
SOT-89	20	20	3	270	0.5	2A	100	2SB1424T100QCT-ND	.48	9.50	28.50	1,000	152.00	2SB1424T100Q
	20	20	3	390	0.5	2A	100	2SB1424T100RCT-ND	.60	11.54	33.23	1,000	166.00	2SB1424T100R
	20	30	3	390	0.45	1.5A	150	2SB1308T100RCT-ND	.85	17.01	51.03	1,000	310.00	2SB1308T100R
	20	30	5	390	1	4A	100	2SB1386T100QCT-ND	.68	13.50	40.50	1,000	216.00	2SB1386T100Q
	20	30	5	390	1	4A	100	2SB1386T100RCT-ND	.68	13.50	40.50	1,000	216.00	2SB1386T100R
	20	20	2	820	0.5	1A	50	2SB1427T100ECT-ND	.58	11.60	34.80	1,000	229.00	2SB1427T100E
SOT-89	30	30	1.5	680	.37	1A	50	2SB1698T100CT-ND	.64	12.80	38.40	1,000	205.00	2SB1698T100
	32	40	1	390	0.5	500	50	2SB1132T100RCT-ND	.54	10.30	29.66	1,000	148.00	2SB1132T100R
	32	40	1	270	0.5	500	50	2SB1132T100QCT-ND	.54	10.30	29.66	1,000	148.00	2SB1132T100Q
	32	40	2	270	0.8	2A	200	2SB1188T100QCT-ND	.62	12.30	36.90	1,000	197.00	2SB1188T100Q
	32	40	2	390	0.8	2A	200	2SB1188T100RCT-ND	.62	12.30	36.90	1,000	197.00	2SB1188T100R
	50	60	1	270	0.4	500	50	2SA1900T100QCT-ND	.69	13.70	41.10	1,000	219.00	2SA1900T100Q
	50	50	3	270	0.35	1A	50	2SA1797T100PCT-ND	.73	14.60	43.80	1,000	234.00	2SA1797T100P
	50	50	3	270	0.35	1A	50	2SA1797T100QCT-ND	.69	13.80	41.40	1,000	221.00	2SA1797T100Q
	60	60	2	270	0.35	1A	50	2SB1561T100QCT-ND	.79	15.70	47.10	1,000	251.00	2SB1561T100Q
	80	80	1	270	0.4	500	50	2SB1260T100QCT-ND	.69	13.25	38.16	1,000	191.00	2SB1260T100Q
	80	80	0.7	390	0.4	500	50	2SB1189T100QCT-ND	.52	10.30	30.90	1,000	195.00	2SB1189T100Q
	80	80	0.7	390	0.4	500	50	2SB1189T100RCT-ND	.52	10.30	30.90	1,000	195.00	2SB1189T100R
	80	80	1	390	0.4	500	50	2SB1260T100RCT-ND	.69	13.25	38.16	1,000	191.00	2SB1260T100R
	400	400	0.1	180	0.5	20	2	2SA1759T100PCT-ND	.88	17.55	52.65	1,000	302.00	2SA1759T100P
	400	400	0.5	270	1	100	10	2SA1812T100QCT-ND	.88	17.55	52.65	1,000	319.00	2SA1812T100Q
SOT-323	12	15	1.5	680	0.20	500	25	2SB1689T106CT-ND	.47	9.00	25.92	3,000	122.00/M	2SB1689T106
	30	30	1	680	0.38	500	25	2SB1694T106CT-ND	.53	9.69	27.28	3,000	112.00/M	2SB1694T106
	32	40	0.5	390	0.6	300	30	2SA1577T106QCT-ND	.44	6.40	16.64	3,000	60.00/M	2SA1577T106Q
	32	40	0.5	390	0.6	300	30	2SA1577T106RCT-ND	.37	5.50	14.30	3,000	60.00/M	2SA1577T106R
	40	40	0.2	300	0.4	50	5	UMT3906T106CT-ND	.48	7.00	18.20	3,000	66.00/M	UMT3906T106

† For Tape and Reel part number, change CT-ND to TR-ND.   ‡ For Tape and Box part number, change CT-ND to TB-ND.

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Transistors

General Purpose Transistors *(Cont.)*

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
									1	25	100	Qty.	Pricing	
SOT-323	50	60	0.15	270	0.5	50	5	2SA1576AT106QCT-ND	.43	6.30	16.38	3,000	59.00/M	2SA1576AT106Q
	50	60	0.15	390	0.5	50	5	2SA1576AT106RCT-ND	.43	6.30	16.38	3,000	59.00/M	2SA1576AT106R
	60	60	0.6	100	1.6	500	50	UMT2907AT106CT-ND	.49	7.18	18.66	3,000	67.00/M	UMT2907AT106
	120	120	50mA	560	0.5	10	1	2SA1579T106RCT-ND	.51	9.38	26.40	3,000	108.00/M	2SA1579T106R
	120	120	50mA	560	0.5	10	1	2SA1579T106SCT-ND	.48	8.75	24.64	3,000	108.00/M	2SA1579T106S
SOT-346	12	15	2	680	0.18	1A	50	2SB1690KT146CT-ND	.55	10.50	30.24	3,000	151.00/M	2SB1690KT146
	15	15	1	270	0.3	400	20	2SB1590KT146QCT-ND	.46	9.20	27.60	3,000	147.00/M	2SB1590KT146Q
	32	40	0.5	390	0.6	300	30	2SA1036KT146QCT-ND	.50	9.22	25.96	3,000	113.00/M	2SA1036KT146Q
	32	40	0.5	390	0.6	300	30	2SA1036KT146RCT-ND	.50	9.22	25.96	3,000	113.00/M	2SA1036KT146R
	32	40	0.8	390	0.5	500	50	2SB1197KT146RCT-ND	.43	7.31	20.28	—	—	2SB1197KT146R
	32	40	0.8	270	0.5	0.5A	50	2SB1197KT146QCT-ND	.47	8.04	22.31	3,000	86.00/M	2SB1197KT146Q
	40	40	0.2	300	0.25	10	1	MMST3906T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST3906T146
	40	40	0.6	100	0.75	500	50	MMST4403T146CT-ND	.60	8.80	22.88	3,000	83.00/M	MMST4403T146
	50	60	0.15	270	0.5	50	5	2SA1037AKT146QCT-ND	.31	4.50	11.70	3,000	42.00/M	2SA1037AK146Q
	50	60	0.15	390	0.5	50	5	2SA1037AKT146RCT-ND	.31	4.50	11.70	3,000	42.00/M	2SA1037AK146R
	60	60	0.6	100	1.6	500	50	MMST2907AT146CT-ND	.80	11.83	30.75	3,000	111.00/M	MMST2907AT146
	80	80	0.5	100min.	0.25	100	10	MMSTA56T146CT-ND	.49	9.06	25.52	3,000	104.00/M	MMSTA56T146
	80	80	0.5	390	0.5	500	50	2SB1198KT146QCT-ND	.43	7.81	22.00	3,000	100.00/M	2SB1198KT146Q
	80	80	0.5	390	0.5	500	50	2SB1198KT146RCT-ND	.47	8.72	24.55	3,000	100.00/M	2SB1198KT146R
	120	120	50mA	560	0.5	10	1	2SA1514KT146RCT-ND	.52	9.53	26.84	3,000	110.00/M	2SA1514KT146R
	120	120	50mA	560	0.5	10	1	2SA1514KT146SCT-ND	.48	8.91	25.08	—	—	2SA1514KT146S
SOT-416	12	15	0.5	680	0.25	200	10	2SA2018TLCT-ND	.48	8.91	25.08	—	—	2SA2018TL
	50	60	0.15	270	0.5	50	5	2SA1774TLQCT-ND	.41	6.00	15.60	3,000	56.00/M	2SA1774TLQ
	50	60	0.15	560	0.5	50	5	2SA1774TLRCT-ND	.41	6.00	15.60	3,000	56.00/M	2SA1774TLR
VMT-3	12	15	0.5	680	0.25	200	10	2SA2030T2LCT-ND	.47	9.00	25.92	—	—	2SA2030T2L
	50	60	0.15	560	0.5	50	5	2SA2029T2LQCT-ND	.53	7.75	20.15	8,000	62.00/M	2SA2029T2LQ
	50	60	0.15	560	0.5	50	5	2SA2029T2LRCT-ND	.49	7.25	18.85	8,000	58.00/M	2SA2029T2LR
SOT-428	20	30	10	560	0.25	4A	50	2SA1834TLRCT-ND	1.45	31.44	96.75	2,500	515.00/M	2SA1834TLR
	20	30	5	390	1	4A	100	2SB1412TLQCT-ND	.87	17.37	52.11	2,500	275.00/M	2SB1412TLQ
	20	30	5	390	1	4A	100	2SB1412TLRCT-ND	1.01	21.78	67.00	2,500	356.00/M	2SB1412TLR
	32	40	2	390	0.8	2A	200	2SB1182TLQCT-ND	1.07	21.42	64.26	2,500	339.00/M	2SB1182TLQ
	32	40	2	390	0.8	2A	200	2SB1182TLRCT-ND	1.07	21.42	64.26	2,500	339.00/M	2SB1182TLR
	50	60	3	390	1	2A	200	2SB1184TLRCT-ND	.65	12.90	38.70	—	—	2SB1184TLR
	50	60	3	270	1	2A	200	2SB1184TLQCT-ND	.99	19.70	59.10	2,500	296.00/M	2SB1184TLQ
	60	100	5	270	0.3	3A	150	2SA1952TLQCT-ND	1.59	34.45	106.00	—	—	2SA1952TLQ
	80	80	1	390	0.4	500	50	2SB1181TLQCT-ND	.98	19.62	58.86	—	—	2SB1181TLQ
	80	80	1	390	0.4	500	50	2SB1181TLRCT-ND	.98	19.62	58.86	2,500	328.00/M	2SB1181TLR
	400	400	0.5	270	1	100	10	2SA1727TLPCT-ND	.98	19.62	58.86	—	—	2SA1727TLP
	400	400	0.5	270	1	100	10	2SA1727TLQCT-ND	.98	19.62	58.86	2,500	328.00/M	2SA1727TLQ
	400	400	2	180	0.5	500	100	2SA1862TLPCT-ND	1.35	29.17	89.75	—	—	2SA1862TLP
	600	600	1	180	1.2	300	60	2SA1807TLPCT-ND	1.68	36.40	112.00	2,500	596.00/M	2SA1807TLP
SOT-23	40	40	0.6	100	0.75	500	50	SST4403T116CT-ND	.63	9.25	24.05	3,000	87.00/M	SST4403T116
	60	60	0.6	100	1.6	500	50	SST2907AT116CT-ND	.46	6.75	17.55	3,000	63.00/M	SST2907AT116
TUMT-3	12	15	2	680	0.18	1A	50	2SB1730TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1730TL
	30	30	1.5	680	0.37	1A	50	2SB1731TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1731TL
TUMT-6	30	30	2	680	.18	1A	50	US6T6CT-ND	.70	14.00	42.00	3,000	222.00/M	US6T6TR
	30	30	1.5	680	.37	1A	50	US6T7CT-ND	.70	14.00	42.00	3,000	222.00/M	US6T7TR
TSMT-3	12	15	1.5	680	200	500	25	2SB1709TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1709TL
	12	15	2	680	0.18	1A	50	2SB1690TLCT-ND	.58	11.60	34.80	3,000	174.00/M	2SB1690TL
	12	15	3	680	.25	1.5A	30	2SB1705TLCT-ND	.56	11.20	33.60	3,000	168.00/M	2SB1705TL
	12	15	4	680	.25	2A	40	2SB1707TLCT-ND	.78	15.66	46.98	3,000	262.00/M	2SB1707TL
	30	30	1	680	.35	500	25	2SB1710TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1710TL
	30	30	1.5	680	.37	1A	50	2SB1695KT146CT-ND	.49	9.06	25.52	3,000	146.00/M	2SB1695KT146
	30	30	1.5	680	0.37	1A	50	2SB1695TLCT-ND	.45	9.00	27.00	3,000	135.00/M	2SB1695TL
	30	30	3	680	0.25	1.5A	30	2SB1708TLCT-ND	.78	15.66	46.98	—	—	2SB1708TL
TSMT-6	12	15	2	680	.18	1A	50	QST6CT-ND	.60	12.00	36.00	3,000	191.00/M	QST6TR
	30	30	1.5	680	.37	1A	50	QST7CT-ND	.60	12.00	36.00	3,000	191.00/M	QST7TR
SPT	20	20	3	390	0.5	2A	100	2SA1585STPQCT-ND‡	.45	9.00	27.00	—	—	2SA1585STPQ
	20	20	3	390	0.5	2A	100	2SA1585STPRCT-ND‡	.45	9.00	27.00	—	—	2SA1585STPR
	50	60	0.15	560	0.5	50	5	2SA933ASTPQCT-ND‡	.49	7.25	18.85	—	—	2SA933ASTPQ
	50	60	0.15	560	0.5	50	5	2SA933ASTPRCT-ND‡	.44	6.50	16.90	—	—	2SA933ASTPR
	50	60	0.15	560	0.5	50	5	2SA933ASTPSCT-ND‡	.47	8.06	22.36	5,000	77.00/M	2SA933ASTPS
ATV	20	30	5	390	1	4A	100	2SB1326TV2QCT-ND‡	.74	14.80	44.40	2,500	236.00/M	2SB1326TV2Q
	20	30	5	390	1	4A	100	2SB1326TV2RCT-ND‡	.74	14.80	44.40	2,500	236.00/M	2SB1326TV2R
	50	60	3	390	1	2A	200	2SB1243TV2QCT-ND‡	.93	18.54	55.62	2,500	311.00/M	2SB1243TV2Q
	50	60	3	390	1	2A	200	2SB1243TV2RCT-ND‡	.93	18.54	55.62	—	—	2SB1243TV2R
	80	80	0.7	390	0.4	500	50	2SB1238TV2QCT-ND‡	.59	11.80	35.40	—	—	2SB1238TV2Q
	80	80	0.7	390	0.4	500	50	2SB1238TV2RCT-ND‡	.59	11.80	35.40	2,500	177.00/M	2SB1238TV2R
	80	80	1	390	0.4	500	50	2SB1241TV2QCT-ND‡	.52	10.30	30.90	2,500	194.00/M	2SB1241TV2Q
	80	80	1	390	0.4	500	50	2SB1241TV2RCT-ND‡	.49	9.70	29.10	2,500	194.00/M	2SB1241TV2R
	400	400	0.5	270	1	100	10	2SA1776TV2PCT-ND‡	.80	15.93	47.79	2,500	266.00/M	2SA1776TV2P
	400	400	0.5	270	1	100	10	2SA1776TV2QCT-ND‡	.80	15.93	47.79	2,500	266.00/M	2SA1776TV2Q
NPN Darlington														
SOT-346	32	32	0.3	5,000min.	1.5	100	0.1	2SD2142KT146CT-ND	.51	9.80	28.22	3,000	133.00/M	2SD2142KT146
SOT-428	60	60	2	10,000	1.5	1A	1	2SD2143TLCT-ND	1.11	22.23	66.69	2,500	352.00/M	2SD2143TL
	100	100	2	10,000	1.5	1A	1	2SD1980TLCT-ND	1.22	24.40	73.20	2,500	366.00/M	2SD1980TL
SOT-89	60	60	1	2,000min.	1.5	500	0.5	2SD1834T100CT-ND	.75	15.00	45.00	1,000	240.00	2SD1834T100
	60	60	2	10,000	1.5	1A	1	2SD2212T100CT-ND	.69	13.86	41.58	1,000	257.00	2SD2212T100
	100	100	2	10,000	1.5	1A	1	2SD2195T100CT-ND	1.07	21.33	63.99	1,000	367.00	2SD2195T100
PNP Darlington														
SOT-89	100	100	2	10,000	1.5	1A	1	2SB1580T100CT-ND	.92	18.36	55.08	1,000	335.00	2SB1580T100
SOT-346	32	40	0.3	5,000min.	1.5	200	0.4	2SB852KT146BCT-ND	.58	11.13	32.04	—	—	2SB852KT146B
SOT-428	100	100	2	10,000	1.5	1A	1	2SB1316TLCT-ND	1.03	22.34	68.75	2,500	387.00/M	2SB1316TL

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

Diodes

Dimensions in mm

Schottky Barrier

Package	IO (A)	VR (V)	IFSM (A)	VF (V) Max.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
DPAK	6	30	35	0.425	RB095B-30TLCT-ND ***NEW!***	1.50	32.50	100.00	2,500	532.00/M	RB095B-30TL
DPAK	6	40	45	0.55	RB095B-40TLCT-ND ***NEW!***	.86	18.69	57.50	2,500	328.00/M	RB095B-40TL
DPAK	6	60	45	0.58	RB095B-60TLCT-ND ***NEW!***	1.03	22.34	68.75	2,500	366.00/M	RB095B-60TL
DPAK	6	90	45	0.75	RB095B-90TLCT-ND ***NEW!***	1.26	25.20	75.60	2,500	372.00/M	RB095B-90TL
DPAK	10	30	35	0.48	RB085B-30TLCT-ND ***NEW!***	1.23	26.65	82.00	2,500	436.00/M	RB085B-30TL
GMD2	0.1	30	0.5	0.46	RB520ZS-30T2RCT-ND	.46	8.91	25.08	8,000	97.00/M	RB520ZS-30T2R
GMD2	0.1	30	0.5	0.37	RB521ZS-30T2RCT-ND	.38	7.34	20.68	8,000	80.00/M	RB521ZS-30T2R
HMD8	0.1	30	0.5	—	RB521ZS8A30TE61CT-ND ***NEW!***	.68	13.50	40.50	3,000	203.00/M	RB521ZS8A30TE61
PMDU	1.0	30	45	0.39	RSX101M-30CT-ND ***NEW!***	.51	9.84	28.33	3,000	134.00/M	RSX101M-30TR
PMDS	2.0	30	60	0.44	RSX201L-30TE25CT-ND ***NEW!***	.64	12.70	38.10	1,500	203.00/M	RSX201L-30TE25
PMDS	3.0	30	70	0.42	RSX301L-30TE25CT-ND ***NEW!***	.68	13.50	40.50	1,500	233.00/M	RSX301L-30TE25
PMDS	5.0	20	70	0.39	RSX501L-20TE25CT-ND ***NEW!***	.71	14.13	42.39	1,500	243.00/M	RSX501L-20TE25
PMDT	3.0	30	70	0.45	RB050LA-30CT-ND	.98	19.62	58.86	3,000	311.00/M	RB050LA-30TR
PMDT	3.0	40	70	0.55	RB050LA-40CT-ND	1.01	20.16	60.48	3,000	319.00/M	RB050LA-40TR
PMDT	3.0	30	70	0.42	RSX301LA-30CT-ND	.80	15.93	47.79	3,000	252.00/M	RSX301LA-30TR
PMDT	5.0	20	70	0.39	RSX501LA-20CT-ND ***NEW!***	.76	15.12	45.36	3,000	239.00/M	RSX501LA-20TR
SC-74A	0.1	40	1	0.34	RB471ET148CT-ND	.73	14.13	40.68	3,000	192.00/M	RB471ET148
SOD-106	3.0	40	70	0.55	RB050L-40TE25CT-ND	1.12	22.32	66.96	1,500	384.00/M	RB050L-40TE25
SOD-106	3.0	20	70	0.45	RB051L-40TE25CT-ND	.70	14.00	42.00	1,500	224.00/M	RB051L-40TE25
SOD-106	5.0	20	70	0.45	RB081L-20TE25CT-ND	1.10	21.96	65.88	1,500	378.00/M	RB081L-20TE25
SOD-106	1.0	40	70	0.55	RB160L-40TE25CT-ND	.57	10.56	29.74	1,500	135.00/M	RB160L-40TE25
SOD-106	1.0	20	70	0.40	RB161L-40TE25CT-ND	.45	8.63	24.84	1,500	124.00/M	RB161L-40TE25
SOD-123	1.0	20	30	0.35	RB161M-20CT-ND	.68	13.13	37.80	3,000	179.00/M	RB161M-20TR
SOD-123	1.5	30	30	0.49	RB070M-30CT-ND	.53	10.60	31.80	3,000	159.00/M	RB070M-30TR
SOD-123	1.0	30	30	0.48	RB160M-30CT-ND	.55	10.03	28.25	3,000	116.00/M	RB160M-30TR
SOD-123	1.0	40	30	0.51	RB160M-40CT-ND	.52	10.09	29.05	3,000	137.00/M	RB160M-40TR
SOD-123	1.0	60	30	0.55	RB160M-60CT-ND	.39	7.56	21.78	3,000	103.00/M	RB160M-60TR
SOD-123	0.7	200	1	0.85	RF071M2SCT-ND	.55	10.64	30.64	3,000	145.00/M	RF071M2STR
SOD-323	0.1	40	1	0.45	RB500V-40TE-17CT-ND	.60	11.63	33.48	3,000	158.00/M	RB500V-40TE
SOD-323	0.1	40	1	0.34	RB501V-40TE-17CT-ND	.61	11.14	31.37	3,000	128.00/M	RB501V-40TE
SOD-323	0.03	30	2	0.37	RB751V-40TE-17CT-ND	.42	8.13	23.40	3,000	111.00/M	RB751V-40TE
SOD-523	0.03	30	2	0.37	RB751S-40TE61CT-ND	.49	9.05	25.48	3,000	104.00/M	RB751S-40TE61
SOD-523	0.2	30	1	0.60	RB520S-30TE61CT-ND	.41	7.50	21.12	3,000	86.00/M	RB520S-30TE61
SOD-523	0.2	30	1	0.50	RB521S-30TE61CT-ND	.41	7.50	21.12	3,000	86.00/M	RB521S-30TE61
SOD-523	0.2	40	1	0.55	RB520S-40TE61CT-ND	.49	8.92	25.12	3,000	103.00/M	RB520S-40TE61
SOT-323	0.03	40	0.2	—	RB706F-40T106CT-ND	.53	10.60	31.80	3,000	159.00/M	RB706F-40T
SOT-323	0.03	40	0.2	0.37	RB715FT106CT-ND	.45	7.61	21.11	3,000	81.00/M	RB715FT106
SOT-323	0.03	40	0.2	0.37	RB717FT106CT-ND	.48	9.25	26.64	3,000	126.00/M	RB717FT106
SOT-343	0.1	40	1	—	RB480KTLCT-ND	.56	10.75	30.96	3,000	146.00/M	RB480KTL
SOT-346	0.015	40	0.2	—	RB706D-40T146CT-ND	.66	12.63	36.36	3,000	172.00/M	RB706D-40T
SOT-346	0.5	40	3	0.55	RB400DT146CT-ND	.62	12.30	36.90	3,000	185.00/M	RB400DT146
SOT-346	0.5	20	3	0.30	RB411DT146CT-ND	.53	9.69	27.28	3,000	112.00/M	RB411DT146
SOT-346	0.1	40	1	0.45	RB420DT146CT-ND	.48	8.91	25.08	3,000	103.00/M	RB420DT146
SOT-346	0.1	40	1	0.34	RB425DT146CT-ND	.46	8.88	25.56	3,000	121.00/M	RB425DT146
SOT-346	—	20	3	0.45	RB491DT146CT-ND	.49	9.35	26.93	3,000	127.00/M	RB491DT146
SOT-346	0.015	40	0.2	0.37	RB705DT146CT-ND	.54	10.36	29.84	3,000	141.00/M	RB705DT146
SOT-363	0.1	30	1	0.53	RB530XNCT-ND	.56	11.20	33.60	3,000	168.00/M	RB530XNTR
SOT-363	0.1	30	1	0.43	RB531XNCT-ND	.59	11.70	35.10	3,000	176.00/M	RB531XNTR
SOT-416	0.03	40	0.2	0.37	RB715WTLCT-ND	.53	10.25	29.52	3,000	139.00/M	RB715WTL
SOT-457	0.01	40	0.2	0.37	RB731UT108CT-ND	.69	13.25	38.16	3,000	180.00/M	RB731UT108
TO-220FN	6	40	100	0.55	RB095T-40-ND† ***NEW!***	1.01	21.91	67.50	—	—	RB095T-40
TO-220FN	6	60	100	0.58	RB095T-60-ND† ***NEW!***	1.13	24.38	75.00	—	—	RB095T-60
TO-220FN	10	30	150	0.45	RSX1001T3-ND† ***NEW!***	1.14	24.62	75.75	—	—	RSX1001T3
TO-220FN	10	40	100	0.55	RB085T-40-ND† ***NEW!***	1.28	27.63	85.00	—	—	RB085T-40
TO-220FN	10	60	100	0.58	RB085T-60-ND† ***NEW!***	1.28	27.63	85.00	—	—	RB085T-60
TO-220FN	10	90	100	0.83	RB085T-90-ND† ***NEW!***	1.50	32.50	100.00	—	—	RB085T-90
TO-220FN	15	40	100	0.55	RB205T-40-ND† ***NEW!***	1.50	32.50	100.00	—	—	RB205T-40
TO-220FN	15	60	100	0.58	RB205T-60-ND† ***NEW!***	1.61	34.94	107.50	—	—	RB205T-60
TO-220FN	20	40	100	0.55	RB215T-40-ND† ***NEW!***	1.80	39.00	120.00	—	—	RB215T-40
TO-220FN	20	60	100	0.58	RB215T-60-ND† ***NEW!***	1.84	39.81	122.50	—	—	RB215T-60
TO-220FN	20	90	100	0.75	RB215T-90-ND† ***NEW!***	1.65	34.68	115.50	—	—	RB215T-90
TO-220FN	30	60	100	0.63	RB225T-60-ND† ***NEW!***	1.53	31.88	107.10	—	—	RB225T-60
TUMD2	1.0	20	5	0.42	RB161VA-20CT-ND	.55	10.63	30.60	3,000	145.00/M	RB161VA-20TR
TUMD2	1.0	30	3	0.52	RB550VA-30CT-ND ***NEW!***	.46	8.88	25.56	3,000	121.00/M	RB550VA-30TR
TUMD2	1.0	30	5	0.43	RSX101VA-30CT-ND ***NEW!***	.40	7.71	22.21	3,000	105.00/M	RSX101VA-30TR
TUMD2	0.5	40	3	0.55	RB400VA-50CT-ND	.62	12.30	36.90	3,000	185.00/M	RB400VA-50TR
TUMD2	0.5	30	5	0.39	RSX051VA-30CT-ND	.49	9.38	27.00	3,000	128.00/M	RSX051VA-30TR
TUMD2	0.7	30	5	0.42	RSX071VA-30CT-ND	.49	9.38	27.00	3,000	128.00/M	RSX071VA-30TR
VMD2	0.03	30	0.2	0.37	RB751G-40T2RCT-ND	.55	10.63	30.60	8,000	136.00/M	RB751G-40T2R
VMD2	0.1	30	0.5	0.45	RB520G-30T2RCT-ND	.46	9.32	25.56	—	—	RB520G-30T2R
VMD2	0.1	30	0.5	0.35	RB521G-30T2RCT-ND	.45	9.06	24.84	8,000	110.00/M	RB521G-30T2R
VMD3	0.03	40	0.2	0.37	RB715ZT2LCT-ND	.57	10.88	31.32	—	—	RB715ZT2L
VMN2	0.1	30	0.5	0.45	RB520CS-30T2RCT-ND	.41	8.27	22.68	8,000	101.00/M	RB520CS-30T2R
VMN2	0.1	30	0.5	0.35	RB521CS-30T2RCT-ND	.45	9.06	24.84	8,000	110.00/M	RB521CS-30T2R

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

DPAK *NEW!*

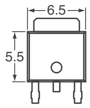

GMD2 *NEW!*

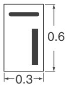

HDM8 *NEW!*

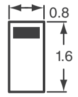

PMDU *NEW!*

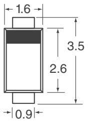

PMDS *NEW!*

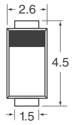

PMDT

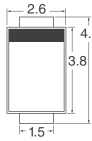

SC-74A

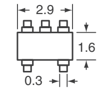

SOD-106

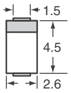

SOD-123

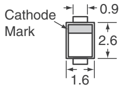

SOD-323

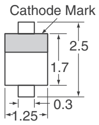

SOD-523

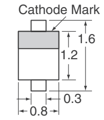

SOT-323

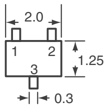

SOT-343

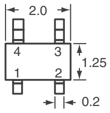

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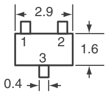

SOT-363

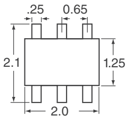

SOT-416

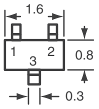

SOT-457

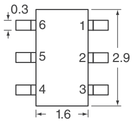

TO-220FN *NEW!*

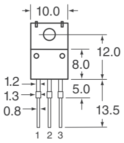

TUMD2

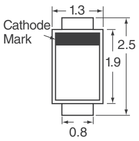

(Continued)

Dimensions in mm

Switching Diodes

Package	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
DPAK	600	600	50A	3.0A	RF305B6STLCT-ND ***NEW!***	1.40	30.31	93.25	2,500	496.00/M	RF305B6STL
DPAK	600	600	50A	5.0A	RF505B6STLCT-ND ***NEW!***	1.60	33.25	111.72	2,500	692.00/M	RF505B6STL
D2PAK	350	300	100A	20A	RF1501NS3STLCT-ND ***NEW!***	1.96	40.88	137.34	2,500	850.00/M	RF1501NS3STL
D2PAK	350	300	100A	20A	RF2001NS3DTLCT-ND ***NEW!***	2.73	56.88	191.10	2,500	1183.00/M	RF2001NS3DTL
D2PAK	430	430	100A	20A	RFUS20NS4STLCT-ND ***NEW!***	2.61	54.44	182.91	2,500	1132.00/M	RFUS20NS4STL
D2PAK	600	600	100A	20A	RFUS20NS6STLCT-ND ***NEW!***	2.94	64.04	190.75	2,500	1395.00/M	RFUS20NS6STL
DO-34	90	80	400	130	1SS133T-77CT-NDΔ	2.55	34.00	76.50	5,000	200.00/M	1SS133T-77
DO-35	100	75	450	150	1N4148T-73CT-ND	.36	4.80	10.80	5,000	28.00/M	1N4148T-73
DO-41	200	200	20A	1.0A	RF101A2ST-32TB-ND§ ***NEW!***	—	—	—	2,500	118.00/M	RF101A2ST-32
DO-41	500	400	30A	1.0A	1SR153-400T-32CT-NDΔ	.48	9.25	26.64	2,500	126.00/M	1SR153-400T-32
GMD2	30	—	50	—	RN142ZST2RCT-ND ***NEW!***	.40	7.50	20.80	8,000	72.00/M	RN142ZST2R
LL-34	250	220	625	200	RLS245TE-11CT-ND	.45	6.63	17.23	2,500	62.00/M	RLS245TE-11
LL-34	100	75	450	150	RLS4148TE-11CT-ND	.42	5.60	12.60	2,500	38.00/M	RLS4148TE-11
LL-34	100	75	450	150	RLS4448TE-11CT-ND	.50	7.35	19.11	2,500	69.00/M	RLS4448TE-11
LL-34	50	50	600	200	RLS4150TE-11CT-ND	.50	7.35	19.11	2,500	69.00/M	RLS4150TE-11
SC-74	—	400	8A	500	RR274EA-400CT-ND ***NEW!***	.46	9.11	27.33	3,000	137.00/M	RR274EA-400TR
SC-74A	80	80	80	25	FMN1T148CT-ND	.50	9.64	27.76	3,000	131.00/M	RMN1T148
SMD3	—	50	—	—	RN779DT146CT-ND ***NEW!***	.55	10.63	30.60	3,000	145.00/M	RN779DT146
SOD-106	200	200	25A	1.0A	RF081L2STE25CT-ND ***NEW!***	.51	9.75	28.08	1,500	140.00/M	RF081L2STE25
SOD-106	200	200	20A	2.0A	RF201L2STE25CT-ND ***NEW!***	.68	13.50	40.50	1,500	216.00/M	RF201L2STE25
SOD-106	400	—	30A	1.0A	1SR154-400TE25CT-ND	.45	7.73	21.42	1,500	95.00/M	1SR154-400TE25
SOD-106	400	400	15A	1.0A	RF071L4STE25CT-ND ***NEW!***	.47	8.59	24.20	1,500	110.00/M	RF071L4STE25
SOD-106	400	400	20A	1.0A	RF101L4STE25CT-ND ***NEW!***	.55	10.63	30.60	1,500	153.00/M	RF101L4STE25
SOD-106	600	—	30A	1.0A	1SR154-600TE25CT-ND	.72	13.22	37.22	1,500	169.00/M	1ST154-600TE25
SOD-106	600	600	20A	800	RF08L6STE25CT-ND ***NEW!***	.50	10.00	30.00	1,500	160.00/M	RF08L6STE25
SOD-106	600	600	40A	1.5A	RF2L6STE25CT-ND ***NEW!***	.70	13.95	41.85	1,500	240.00/M	RF2L6STE25
SOD-123	—	400	25A	0.7A	RR264M-400CT-ND	.64	10.95	30.37	3,000	117.00/M	RR264M-400
SOD-123	200	200	15A	800	RF081M2SCT-ND ***NEW!***	.39	7.51	21.64	3,000	102.00/M	RF081M2STR
SOD-323	90	80	225	100	1SS355TE-17CT-ND	.34	5.03	13.07	3,000	47.00/M	1SS355TE-17
SOD-323	40	35	225	100	1SS380TE-17CT-ND	.53	7.80	20.28	3,000	73.00/M	1SS380TE-17
SOD-323	—	50	50	—	RN731VTE-17CT-ND	.49	9.03	25.43	3,000	104.00/M	RN731VTE-17
SOD-323	100	100	6A	500	RF05VA1SCT-ND ***NEW!***	.40	7.34	20.68	3,000	85.00/M	RF05VA1STR
SOD-323	200	200	6A	500	RF05VA2SCT-ND ***NEW!***	.42	7.66	21.56	3,000	88.00/M	RF05VA2STR
SOD-523	90	80	225	100	1SS400TE61CT-ND	.43	6.38	16.58	3,000	60.00/M	1SS400TE61
SOT-23	70	70	450	—	BAW56T116CT-ND	.43	6.25	16.25	—	—	BAW56T116
SOT-323	80	80	300	100	DAN202UT106CT-ND	.49	7.15	18.59	3,000	67.00/M	DAN202UT106
SOT-323	80	80	300	100	DAP202UT106CT-ND	.44	6.50	16.90	3,000	61.00/M	DAP202UT106
SOT-323	—	35	—	—	DAN235UT106CT-ND	.43	7.31	20.28	3,000	106.00/M	DAN235UT106
SOT-343	80	80	300	100	DA227TLCT-ND	.57	10.91	31.43	3,000	148.00/M	DA227TL
SOT-346	80	80	300	100	DAN202KT146CT-ND	.54	8.00	20.80	3,000	75.00/M	DAN202KT146
SOT-346	80	80	300	100	DAP202KT146CT-ND	.48	7.08	18.40	3,000	67.00/M	DAP202KT146
SOT-346	80	80	300	100	DAN217T146CT-ND	.63	9.30	24.18	3,000	87.00/M	DAN217T146
SOT-346	20	20	200	100	DA204KT146CT-ND	.53	7.75	20.15	3,000	73.00/M	DA204KT146
SOT-353	80	80	80	25	UMN1NCT-ND	.46	8.88	25.56	3,000	121.00/M	UMN1N
SOT-416	80	80	300	100	DAN222TLCT-ND	.53	7.75	20.15	3,000	73.00/M	DAN222TL
SOT-416	80	80	300	100	DAP222TLCT-ND	.49	7.28	18.92	3,000	68.00/M	DAP222TL
SOT-416	20	20	200	100	DA221TLCT-ND	.36	6.19	17.16	3,000	66.00/M	DA221TL
SOT-457	80	80	300	100	IMN10T108CT-ND	.57	10.90	31.39	3,000	148.00/M	IMN10T108
SOT-457	200	200	1A	400	RF04UA2DCT-ND ***NEW!***	.53	10.25	29.52	3,000	139.00/M	RF04UA2DTR
TO-220FN	430	400	100A	20A	RF2001T4S-ND† ***NEW!***	1.98	41.25	138.60	—	—	RF2001T4S
TO-220NFM	350	300	100A	20A	RF1501TF3S-ND† ***NEW!***	1.81	37.69	126.63	—	—	RF1501TF3S
TO-220NFM	600	600	80A	5.0A	RF505TF6S-ND† ***NEW!***	1.63	33.94	114.03	—	—	RF505TF6S
TO-220NFM	600	600	60A	5.0A	RFU5TF6S-ND† ***NEW!***	1.55	32.25	108.36	—	—	RFU5TF6S
TO-220NFM	600	600	100A	10A	RFU10TF6S-ND† ***NEW!***	2.09	43.50	146.16	—	—	RFU10TF6S
TO-220NFM	600	600	100A	10A	RF1005TF6S-ND† ***NEW!***	1.71	35.63	119.70	—	—	RF1005TF6S
VMD2	90	80	225	100	1SS400GT2RCT-ND	.60	8.80	22.88	8,000	70.00/M	1SS400GT2R
VMD3	20	20	200	100	DA221MT2LCT-ND	.44	7.50	20.80	8,000	72.00/M	DA221MT2L
VMD3	80	80	300	100	DAN222MT2LCT-ND	.47	8.06	22.36	8,000	77.00/M	DAN222MT2L
VMD3	80	80	300	100	DAP222MT2LCT-ND	.49	7.25	18.85	8,000	58.00/M	DAP222MT2L

‡ For Tape and Reel part number, change CT-ND to TR-ND. Δ For Tape and Box part number, change CT-ND to TB-ND. § Tape and Box
† Bulk

VMD2

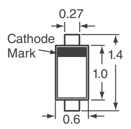

VMD3

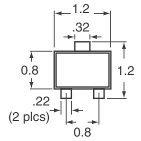

VMN2

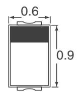

D2PAK *NEW!*

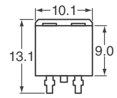

DO-34

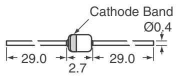

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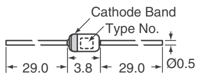

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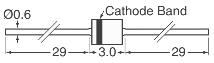

LL-34

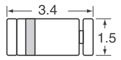

SMD3 *NEW!*

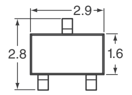

SOT-23

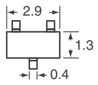

SOT-353

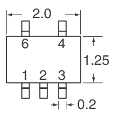

TO-220NFM *NEW!*

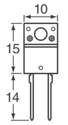

Zener Diodes

Specifications: GDZT Series: 100mW; **PTZT Series:** 1000mW; **KDZT Series:** 1000mW; **UDZS and RSBxxV Series:** 200mW; **EDZT and RSB5.6S Series:** 150mW; **RSB16VA Series:** 500mW; **RSBxxF2 Series:** 200mW; **RSB6.8CS Series:** 100mW

Dimensions in mm

Package	Zener Voltage Min.	Zener Voltage Max.	Resistance Ω Max.	Resistance Ω Iz (mA)	Reverse Current IR (µA) Max.	Reverse Current IR (µA) VR (V)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty	Pricing	Rohm Part No.
SOD-106	4.300	4.800	15	40.0	20.0	1.0	PTZTE254.3BCT-ND	.65	12.43	35.78	1,500	179.00/M	PTZTE254.3B
	5.100	5.700	8	40.0	20.0	1.0	PTZTE255.1BCT-ND	.65	12.43	35.78	1,500	179.00/M	PTZTE255.1B
	7.500	8.400	4	40.0	20.0	4.0	PTZTE257.5BCT-ND	.65	12.43	35.78	1,500	179.00/M	PTZTE257.5B
	12.000	13.500	8	20.0	10.0	9.0	PTZTE2512BCT-ND	.53	10.25	29.52	1,500	148.00/M	PTZTE2512B
	18.000	20.300	12	20.0	10.0	13.0	PTZTE2518BCT-ND	.53	10.25	29.52	1,500	148.00/M	PTZTE2518B
	27.000	30.800	16	10.0	10.0	21.0	PTZTE2527BCT-ND	.65	12.43	35.78	1,500	179.00/M	PTZTE2527B
SOD-323	3.600	3.845	100	5.0	10.0	1.0	UDZSTE-173.6BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-173.6B
	3.890	4.160	100	5.0	5.0	1.0	UDZSTE-173.9BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-173.9B
	4.170	4.430	100	5.0	5.0	1.0	UDZSTE-174.3BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-174.3B
	4.980	5.200	80	5.0	2.0	1.5	UDZSTE-175.1BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-175.1B
	5.490	5.730	60	5.0	1.0	2.5	UDZSTE-175.6BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-175.6B
	6.060	6.330	60	5.0	1.0	3.0	UDZSTE-176.2BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-176.2B
	6.650	6.930	40	5.0	0.5	3.5	UDZSTE-176.8BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-176.8B
	7.280	7.600	30	5.0	0.5	4.0	UDZSTE-177.5BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-177.5B
	8.850	9.230	30	5.0	0.5	6.0	UDZSTE-179.1BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-179.1B
	9.770	10.210	30	5.0	0.1	7.0	UDZSTE-1710BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1710B
	11.740	12.240	30	5.0	0.1	9.0	UDZSTE-1712BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1712B
	14.340	14.980	42	5.0	0.1	11.0	UDZSTE-1715BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1715B
	17.560	18.350	65	5.0	0.1	13.0	UDZSTE-1718BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1718B
	21.540	22.470	100	5.0	0.1	17.0	UDZSTE-1722BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1722B
	26.190	27.530	150	5.0	0.1	21.0	UDZSTE-1727BCT-ND	.53	7.75	20.15	3,000	73.00/M	UDZSTE-1727B

‡ For Tape and Reel part number, change CT-ND to TR-ND.

SOD-106

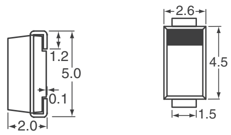

SOD-323/UMD2

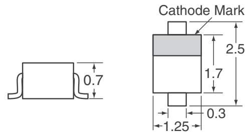

(Continued)

Zener Diodes *(Cont.)*

Dimensions in mm

Package	Zener Voltage Min.	Zener Voltage Max.	Resistance Ω Max.	Resistance Ω Iz (mA)	Reverse Current IR (µA) Max.	Reverse Current IR (µA) VR (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Tape and Reel‡ Qty	Tape and Reel‡ Pricing	Rohm Part No.
SOD-523	3.600	3.845	100	5.0	10.0	1.0	EDZTE613.6BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE613.6B
	3.890	4.160	100	5.0	5.0	1.0	EDZTE613.9BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE613.9B
	4.170	4.430	100	5.0	5.0	1.0	EDZTE614.3BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE614.3B
	4.550	4.750	100	5.0	2.0	1.0	EDZTE614.7BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE614.7B
	6.650	6.930	40	5.0	0.5	3.5	EDZTE616.8BCT-ND	.46	7.88	21.84	3,000	84.00/M	EDZTE616.8B
	7.280	7.600	30	5.0	0.5	4.0	EDZTE617.5BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE617.5B
	8.020	8.360	30	5.0	0.5	5.0	EDZTE618.2BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE618.2B
	8.850	9.230	30	5.0	0.5	6.0	EDZTE619.1BCT-ND	.38	7.03	19.80	—	—	EDZTE619.1B
	9.770	10.210	30	5.0	0.1	7.0	EDZTE6110BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6110B
	10.760	11.220	30	5.0	0.1	8.0	EDZTE6111BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6111B
	11.740	12.240	30	5.0	0.1	9.0	EDZTE6112BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6112B
	14.340	14.980	42	5.0	0.1	11.0	EDZTE6115BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6115B
	15.850	16.510	50	5.0	0.1	12.0	EDZTE6116BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6116B
	17.560	18.350	65	5.0	0.1	13.0	EDZTE6118BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6118B
	19.520	20.390	85	5.0	0.1	15.0	EDZTE6120BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6120B
	21.540	22.470	100	5.0	0.1	17.0	EDZTE6122BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6122B
	23.720	24.780	120	5.0	0.1	19.0	EDZTE6124BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6124B
	26.190	27.530	150	2.0	0.1	21.0	EDZTE6127BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6127B
	29.190	30.690	200	2.0	0.1	23.0	EDZTE6130BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6130B
	32.150	33.790	250	2.0	0.1	25.0	EDZTE6133BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6133B
	35.070	36.870	300	2.0	0.1	27.0	EDZTE6136BCT-ND	.41	7.50	21.12	3,000	86.00/M	EDZTE6136B

Package	Zener Voltage Min.	Zener Voltage Max.	Reverse Current IR (µA) Max.	Reverse Current IR (µA) VR (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Tape and Reel‡ Qty	Tape and Reel‡ Pricing	Rohm Part No.
GMD2	3.740	4.160	5.0	1.0	GDZT2R3.9CT-ND ***NEW!***	.48	9.36	26.36	8,000	102.00/M	GDZT2R3.9
	4.420	4.900	2.0	1.0	GDZT2R4.7CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R4.7
	4.840	5.370	2.0	1.5	GDZT2R5.1CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R5.1
	5.310	5.920	1.0	2.5	GDZT2R5.6CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R5.6
	5.860	6.530	1.0	3.0	GDZT2R6.2CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R6.2
	6.470	7.140	0.5	3.5	GDZT2R6.8CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R6.8
	7.060	7.840	0.5	4.0	GDZT2R7.5CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R7.5
	7.760	8.640	0.5	5.0	GDZT2R8.2CT-ND ***NEW!***	.48	9.38	26.40	8,000	102.00/M	GDZT2R8.2
SOD-123	3.600	4.000	60	1.0	KDZTR3.6BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR3.6B
	3.900	4.400	40	1.0	KDZTR3.9BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR3.9B
	4.300	4.800	20	1.0	KDZTR4.3BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR4.3B
	4.700	5.200	20	1.0	KDZTR4.7BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR4.7B
	5.100	5.700	20	1.0	KDZTR5.1BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR5.1B
	5.600	6.300	20	1.5	KDZTR5.6BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR5.6B
	6.200	7.000	20	3.0	KDZTR6.2BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR6.2B
	6.800	7.700	20	3.5	KDZTR6.8BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR6.8B
	7.500	8.400	20	4.0	KDZTR7.5BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR7.5B
	8.200	9.300	20	5.0	KDZTR8.2BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR8.2B
	9.100	10.200	20	6.0	KDZTR9.1BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR9.1B
	10.000	11.200	10	7.0	KDZTR10BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR10B
	11.000	12.300	10	8.0	KDZTR11BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR11B
	12.000	13.500	10	9.0	KDZTR12BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR12B
	13.300	15.000	10	10.0	KDZTR13BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR13B
	14.700	16.500	10	11.0	KDZTR15BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR15B
	16.200	18.300	10	12.0	KDZTR16BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR16B
	18.000	20.300	10	13.0	KDZTR18BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR18B
	20.000	22.400	10	15.0	KDZTR20BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR20B
	22.000	24.500	10	17.0	KDZTR22BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR22B
	24.000	27.600	10	19.0	KDZTR24BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR24B
	27.000	30.800	10	21.0	KDZTR27BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR27B
	30.000	34.000	10	23.0	KDZTR30BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR30B
	33.000	37.000	10	25.0	KDZTR33BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR33B
	36.000	40.000	10	27.0	KDZTR36BCT-ND ***NEW!***	.41	8.29	24.87	3,000	112.00/M	KDZTR36B
UMD2	14.400	17.600	0.1	12.0	RSB16VTE-17CT-ND ***NEW!***	.50	9.16	25.78	3,000	105.00/M	RSB16VTE-17
	16.200	19.800	0.1	13.0	RSB18VTE-17CT-ND ***NEW!***	.50	9.16	25.78	3,000	105.00/M	RSB18VTE-17
	26.200	32.000	0.1	24.0	RSB27VTE-17CT-ND ***NEW!***	.50	9.16	25.78	3,000	105.00/M	RSB27VTE-17
EMD2	4.760	6.440	1.0	2.5	RSB5.6STE61CT-ND ***NEW!***	.51	9.79	28.19	3,000	133.00/M	RSB5.6STE61
TUMD2	14.400	17.600	0.1	12.0	RSB16VACT-ND ***NEW!***	.48	8.78	24.73	3,000	101.00/M	RSB16VATR
UMD3	5.780	7.820	0.5	3.5	RSB6.8F2T106CT-ND ***NEW!***	.54	10.36	29.84	3,000	141.00/M	RSB6.8F2T106
	14.400	17.600	0.1	12.0	RSB16F2T106CT-ND ***NEW!***	.54	10.36	29.83	3,000	141.00/M	RSB16F2T106
	16.200	19.800	0.1	13.0	RSB18F2T106CT-ND ***NEW!***	.54	10.36	29.84	3,000	141.00/M	RSB18F2T106
	26.200	32.000	0.1	24.0	RSB27F2T106CT-ND ***NEW!***	.54	10.36	29.84	3,000	141.00/M	RSB27F2T106
UMD6	20.00	22.000	0.1	16.0	RSB16X3NCT-ND ***NEW!***	.55	11.00	33.00	3,000	165.00/M	RSB16X3NTR
VMN2	5.780	7.820	0.5	3.5	RSB6.8CST2RCT-ND ***NEW!***	.43	8.29	23.87	8,000	106.00/M	RSB6.8CST2R

‡ For Tape and Reel part number, change CT-ND to TR-ND.

SOD-523/EMD2

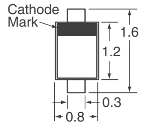

GMD2 ***NEW!***

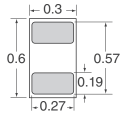

SOD-123 ***NEW!***

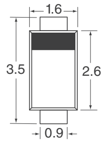

TUMD2 ***NEW!***

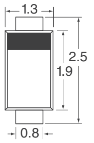

UMD3 ***NEW!***

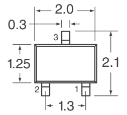

UMD6 ***NEW!***

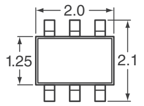

VMN2 ***NEW!***

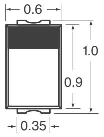

Zener Diode Array — SOT-353

Dimensions in mm

Fig.	Voltage Min.	Voltage Max.	Resistance Max. (Ω)	Reverse Current	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Rohm Part No.
1	6.47	7.14	40	0.5µA	UMZ6.8ENCT-ND	.46	8.44	23.76	—	—	UMZ6.8EN
2	6.47	7.14	—	0.5µA	VMZ6.8NT2LCT-ND	.50	9.22	25.96	8,000	100.00/M	VMZ6.8NT2L

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

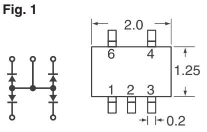

Fig. 2

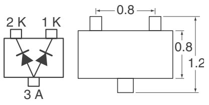

Triacs (0.8 ~ 35.0 Amps)

IT RMS (A)	Package	VDRM (V)	IDRM @25°C (mA)	IGT (mA)	VGT (V)	IH (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel§ Qty.	Pricing
Sensitive Gate Triacs, Isolated — RoHS Compliant												
0.8	COMPAK	400	.01	3	2	5	L4X3CT-ND†	1.34	1.14	.97	2,500	584.50/M
1.0	TO-92	200	.01	3	2	5	L201E3-ND	1.25	1.07	.91	—	—
	TO-92	400	.01	3	2	5	L401E3-ND	1.34	1.14	.97	—	—
	TO-92	400	.01	5	2	10	L401E5-ND	1.25	1.07	.91	—	—
	TO-92	600	.01	3	2	5	L601E3-ND	1.51	1.29	1.10	—	—
	TO-92	600	.01	5	2	10	L601E5-ND	1.42	1.21	1.03	—	—
4.0	TO-220AB	200	.01	3	2	5	L2004L3-ND	2.10	1.85	1.57	—	—
	TO-220AB	400	.01	3	2	5	L4004L3-ND	2.18	1.93	1.63	—	—
	TO-220AB	600	.01	3	2	5	L6004L3-ND	2.51	2.21	1.88	—	—
8.0	TO-220AB	400	.02	5	2	10	L4008L6-ND	2.39	2.10	1.79	—	—
	TO-220AB	600	.02	5	2	10	L6008L6-ND	2.71	2.39	2.03	—	—
Sensitive Gate Triacs, Non-Isolated												
8.0	TO-252AA	400	.02	5	2	10	L4008D6CT-ND†	1.76	1.50	1.28	2,500	771.76/M
Triacs, Isolated — RoHS Compliant												
1.0	COMPAK	400	.02	10	2	15	Q4N3CT-ND†	1.34	1.14	.97	2,500	584.50/M
	COMPAK	600	.02	10	2	15	Q6N3CT-ND†	1.59	1.36	1.16	2,500	696.50/M
	TO-92	200	.02	10	2	15	Q201E3-ND	1.08	.92	.79	—	—
	TO-92	400	.02	10	2	15	Q401E3-ND	1.20	1.03	.88	—	—
	TO-92	600	.02	10	2	15	Q601E3-ND	1.42	1.21	1.03	—	—
4.0	TO-220AB	200	.05	10	2	20	Q2004L3-ND	1.85	1.58	1.35	—	—
	TO-220AB	400	.05	10	2	20	Q4004L3-ND	1.90	1.67	1.42	—	—
	TO-220AB	600	.05	10	2	20	Q6004L3-ND	2.26	1.99	1.69	—	—
	TO-220AB	600	.05	25	2.5	30	Q6004L4-ND	2.14	1.89	1.60	—	—
8.0	TO-220AB	200	.05	25	2.5	50	Q2008L4-ND	2.06	1.82	1.54	—	—
	TO-220AB	400	.05	25	2.5	50	Q4008L4-ND	2.26	1.99	1.69	—	—
	TO-220AB	600	.05	50	2.5	50	Q6008L5-ND	2.51	2.21	1.88	—	—
10.0	TO-220AB	200	.05	50	2.5	50	Q2010L5-ND	2.22	1.96	1.66	—	—
	TO-220AB	400	.05	25	2.5	35	Q4010L4-ND	2.58	2.28	1.93	—	—
	TO-220AB	400	.05	50	2.5	35	Q4010L5-ND	2.46	2.17	1.84	—	—
	TO-220AB	600	.05	25	2.5	35	Q6010L4-ND	3.07	2.70	2.30	—	—
	TO-220AB	600	.05	50	2.5	35	Q6010L5-ND	2.91	2.56	2.17	—	—
15.0	TO-220AB	200	.05	50	2.5	70	Q2015L5-ND	2.67	2.35	2.00	—	—
	TO-220AB	400	.05	50	2.5	70	Q4015L5-ND	2.95	2.60	2.21	—	—
	TO-220AB	600	.05	50	2.5	70	Q6015L5-ND	3.48	3.06	2.60	—	—
25.0	TO-3	600	.1	50	2.75	50	Q6025P5-ND	11.92	10.81	8.57	—	—
35.0	TO-3	600	.1	50	2.75	50	Q6035P5-ND	14.51	13.15	10.43	—	—
Triacs, Non-Isolated												
4.0	TO-252AA	400	.05	10	2	20	Q4004D3CT-ND†	1.55	1.32	1.13	2,500	679.00/M
6.0	D2-PAK	400	.05	25	2.5	50	Q4006N4RPCT-ND◆†	2.14	1.89	1.60	500	655.50
8.0	TO-220AB	400	.05	25	2.5	50	Q4008R4-ND◆	2.06	1.82	1.54	—	—
	TO-220AB	600	.05	50	2.5	50	Q6008R5-ND◆	2.30	2.03	1.72	—	—
	D2-PAK	600	.05	50	2.5	50	Q6008N5RPCT-ND◆†	2.58	2.28	1.93	500	792.35
10.0	TO-220AB	400	.05	50	2.5	50	Q4010R5-ND◆	2.26	1.99	1.69	—	—
	D2-PAK	400	.05	50	2.5	50	Q4010N5RPCT-ND◆†	2.51	2.21	1.88	500	768.20
15.0	TO-220AB	200	.05	50	2.5	70	Q2015R5-ND◆	2.46	2.17	1.84	—	—
	TO-220AB	400	.05	50	2.5	70	Q4015R5-ND◆	2.71	2.39	2.03	—	—
	TO-220AB	600	.05	50	2.5	70	Q6015R5-ND◆	3.23	2.85	2.42	—	—
25.0	TO-220AB	600	.1	50	2.5	100	Q6025R5-ND◆	3.85	3.41	2.64	—	—

◆ *RoHS Compliant* † Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

ISOLATED

COMPAK

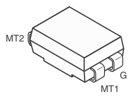

Plastic TO-92

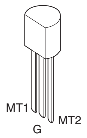

Thermotab TO-220AB

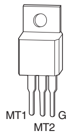

TO-3 Base / FASTPAK (SMT)

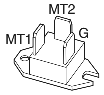

SOT-223

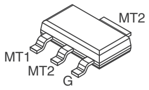

NON-ISOLATED

TO-220AB

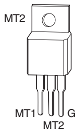

SMT TO-252AA

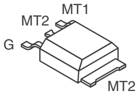

D2-PAK (SMT)

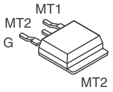

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse
Expertise Applied | Answers Delivered

Teccor® Brand Thyristor

Alternistor Triacs 6.0 ~ 40.0 Amps

General Description: Teccor's Alternistor Triac has been specifically designed for applications which are required to switch highly inductive loads. To accomplish this, a special chip has been designed which effectively offers the same performance as two thyristors (SCRs) wired inverse parallel (back-to-back), hence, the alternistor has better turn-off behavior than a standard triac.

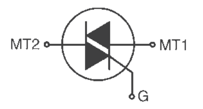

TO-220AB - Isolated

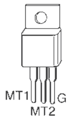

TO-218X

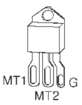

TO-218AC

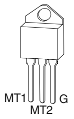

TO-220AB - Non-Isolated

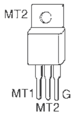

D2-PAK (SMT)

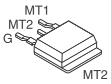

TO-251 V-PAK

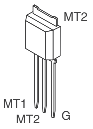

TO-252 D-PAK (SMT)

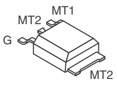

Package	IT RMS (A)	VDRM (V)	IGT (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel§ Qty.	Pricing
Isolated (File E71639) — RoHS Compliant									
TO-220AB	6.0	600	35	Q6006LH4-ND	2.46	2.17	1.84	—	—
TO-220AB	8.0	400	35	Q4008LH4-ND	2.26	1.99	1.69	—	—
	8.0	600	35	Q6008LH4-ND	2.51	2.21	1.88	—	—
	8.0	800	35	Q8008LH4-ND	2.99	2.63	2.24	—	—
TO-220AB	12.0	400	50	Q4012LH5-ND	2.63	2.31	1.96	—	—
	12.0	600	50	Q6012LH5-ND	2.91	2.56	2.17	—	—
TO-220AB	16.0	400	20	Q4016LH3-ND	3.23	2.85	2.42	—	—
	16.0	600	20	Q6016LH3-ND	3.59	3.17	2.69	—	—
	16.0	600	35	Q6016LH4-ND	3.48	3.06	2.60	—	—
	16.0	800	35	Q8016LH4-ND	3.85	3.41	2.64	—	—
	16.0	400	80	Q4016LH6-ND	2.95	2.60	2.21	—	—
	16.0	600	80	Q6016LH6-ND	3.27	2.88	2.45	—	—
	16.0	800	80	Q8016LH6-ND	3.62	3.21	2.49	—	—
TO-220AB	25.0	400	80	Q4025L6-ND	4.07	3.61	2.80	—	—
	25.0	600	80	Q6025L6-ND	4.52	4.01	3.11	—	—
	25.0	800	80	Q8025L6-ND	5.39	4.78	3.70	—	—
TO-218AC	25.0	800	80	Q8025K6TP-ND	9.61	8.72	6.91	—	—

Package	IT RMS (A)	VDRM (V)	IGT (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel§ Qty.	Pricing
TO-220AB	30.0	600	50	Q6030LH5-ND	5.01	4.44	3.44	—	—
TO-218X	40.0	400	100	Q4040J7TP-ND	10.72	9.72	7.71	—	—
	40.0	400	100	Q6040J7TP-ND	11.89	10.78	8.55	—	—
TO-218AC	40.0	200	100	Q2040K7TP-ND	8.82	8.00	6.35	—	—
	40.0	400	100	Q4040K7TP-ND	9.72	8.81	6.99	—	—
	40.0	600	100	Q6040K7TP-ND	10.75	9.75	7.73	—	—
	40.0	800	100	Q8040K7TP-ND	12.78	11.59	9.19	—	—
Non-Isolated									
D2-PAK	8.0	600	35	Q6008NH4RPCT-ND†	2.58	2.28	1.93	500	792.35
TO-252 D-PAK	8.0	600	10	Q6008DH3RPCT-ND†	1.98	1.69	1.44	2,500	868.00/M
D-PAK	16.0	800	35	Q8016NH4RPCT-ND†	3.96	3.51	2.72	500	1073.50
TO-220AB	25.0	200	80	Q2025R6-ND	3.56	3.13	2.66	—	—
	25.0	400	80	Q4025R6-ND	3.65	3.24	2.51	—	—
	25.0	600	80	Q6025R6-ND	4.07	3.61	2.80	—	—

† Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

Internally Triggered Quadrac® Triacs (4.0 ~ 15.0 Amps)

General Description: QUADRAC is a triac that includes a diac trigger mounted inside the same package. This device saves the user the expense and assembly time of buying a discrete diac and assembling in conjunction with a gated triac. QUADRAC is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage. Its primary purpose is for AC switching and phase control applications such as speed controls, temperature modulation controls, and lighting controls.

Features: • Glass passivated junctions • Electrically isolated package • Internal trigger diac • High surge capability - up to 150 Amps • High voltage capability - 200 up to 600 volts • IDRM @25°C: .05mA • VTM @25°C: 1.6V • Capacitance: 0.1µF • tgt: 3µsec. **Electrical Isolation:** Isolated TO-220 Quadrac package will withstand a minimum high potential test of 2500VAC (RMS) from leads to case over the operating temperature range of the device. **Electrical Isolation From Leads to Case:** U.L. Recognized File No. 71639

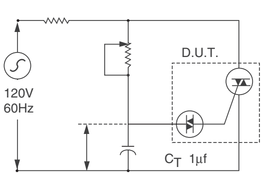

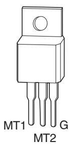

Thermotab TO-220AB
(Isolated)

IT RMS (A)	VDRM (V)	IGTM (A)	VBO (V) Min.	Max.	IBO (µA)	IH (mA)	Digi-Key Part No.	Price Each 1	10	100
4.0	200	1.2	33	43	25	40	Q2004LT-ND	1.94	1.71	1.45
	400	1.2	33	43	25	40	Q4004LT-ND	2.10	1.85	1.57
	600	1.2	33	43	25	40	Q6004LT-ND	2.51	2.21	1.88
8.0	200	1.5	33	43	25	60	Q2008LT-ND	2.34	2.07	1.75
	400	1.5	33	43	25	60	Q4008LT-ND	2.55	2.25	1.91
	600	1.5	33	43	25	60	Q6008LT-ND	3.03	2.67	2.27
	600	1.5	33	43	25	60	Q6008LTH-ND‡	3.11	2.74	2.33
15.0	400	1.5	33	43	25	70	Q4015LT-ND	3.15	2.78	2.36
	600	1.5	33	43	25	70	Q6015LTH-ND‡	3.58	3.18	2.46

‡ No snubber network required, best dv/dt and noise immunity.

Sidacs

Sidac is a sillicon bilateral voltage triggered switch with greater power-handling capabilities than standard diacs. Upon application of a voltage exceeding the sidac breakover voltage point, the sidac switches on through a negative resistance region to a low on-state voltage. Conduction continues until the current is interrupted or drops below the minimum holding current of the device. Junction temperature range (T_J) is -40°C ~ 125°C. **Application:** High Voltage Ignition sources.

Fig. 1

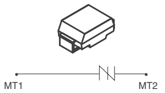

Fig. 2

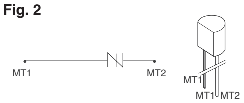

Fig. 3

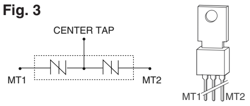

Fig. 4

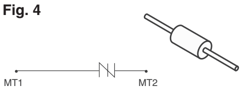

Fig.	Package	IT(RMS) (A)	VDRM (V)	VBO Min.	Max.	IBO (µA)	IH (mA)	Digi-Key Part No.	Price Each 1	10	100	250
1	DO-214	1.0	±90	95	113	10	60	K1050SRPCT-ND†	1.03	.88	.75	.68
	DO-214	1.0	±90	95	113	10	60	K1050SRPTR-ND§	1128.75/2,500			
2	TO-92	1.0	±90	95	113	10	60	K1050E70-ND	1.07	.83	.72	.67
	TO-92	1.0	±90	104	118	10	60	K1100E70-ND	1.07	.83	.72	.67
	TO-92	1.0	±90	110	125	10	60	K1200E70-ND	1.07	.83	.72	.67
	TO-92	1.0	±90	120	138	10	60	K1300E70-ND	1.07	.83	.72	.67
	TO-92	1.0	±90	130	146	10	60	K1400E70-ND	1.12	.87	.75	.70
	TO-92	1.0	±90	140	170	10	60	K1500E70-ND	1.12	.87	.75	.70
	TO-92	1.0	±180	190	215	10	60	K2000E70-ND	1.12	.96	.82	.73
	TO-92	1.0	±180	205	230	10	60	K2200E70-ND	1.12	.96	.82	.73
	TO-92	1.0	±190	240	280	10	60	K2500E70-ND	1.20	1.03	.88	.79
3	TO-202AB‡	1.0	±90	110	125	10	60	K1200G-ND	1.12	.87	.75	.70
4	DO-15X	1.0	±90	120	138	10	60	K1300G-ND	1.12	.87	.75	.70
	DO-15X	1.0	±180	190	215	10	60	K2000G-ND	1.20	1.03	.88	.79
	DO-15X	1.0	±190	220	250	10	60	K2400G-ND	1.30	1.11	.94	.85
	DO-15X	1.0	±200	240	280	10	60	K2500G-ND	1.30	1.11	.94	.85

† Cut Tape § Tape and Reel ‡ Non-Isolated

Glass Passivated Silicon Rectifiers

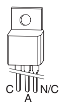

Package	IT RMS (A)	VRRM (V)	IFSM (A)	VFM (V)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
TO-220AB (Isolated)	15.0	200	225	1.6	D2015L-ND	2.02	1.78	1.51	1.35	1.24	.95
	15.0	400	225	1.6	D4015L-ND	2.14	1.89	1.60	1.43	1.32	1.00
	15.0	600	225	1.6	D6015L-ND	2.26	1.99	1.69	1.51	1.39	1.06
	20.0	400	300	1.6	D4020L-ND	2.39	2.10	1.79	1.59	1.47	1.12
	20.0	600	300	1.6	D6020L-ND	2.51	2.21	1.88	1.67	1.54	1.17
	20.0	800	300	1.6	D8020L-ND	2.67	2.35	2.00	1.78	1.64	1.25
	25.0	400	350	1.6	D4025L-ND	2.87	2.53	2.15	1.92	1.76	1.34
	25.0	600	350	1.6	D6025L-ND	3.03	2.67	2.27	2.02	1.86	1.42

Littelfuse Expertise Applied | Answers Delivered

Teccor® Brand Thyristor

Sensitive Gate (0.8~10.0 Amps) and Non-Sensitive Gate (1.0~70.0 Amps) SCRs

Digi-Reel®

IT RMS (A)	Package	VDRM & VRRM (V)	IGT (mA)		IDRM & IRRM @25°C (mA)	VTM @25°C (V)	VGT @25°C (V)	dv/dt Min. (V/µsec.)	Digi-Key Part No.	Price Each			Tape and Reel§	
			Min.	Max.						1	10	100	Qty.	Pricing
Sensitive Gate — Isolated														
0.8	TO-92	200	—	.200	.001‡	1.7	0.8	25	2N5064-ND◆	.82	.65	.55	—	—
	TO-92	200	—	.200	.001	1.7	0.8	30	EC103B-ND◆	.68	.53	.46	—	—
	TO-92	400	—	.200	.001	1.7	0.8	30	EC103D-ND◆	.77	.61	.52	—	—
	TO-92	600	—	.012	.002	1.7	0.8	10	EC103M1-ND◆	1.12	.87	.75	—	—
	TO-92	600	—	.200	.002	1.7	0.8	15	EC103M-ND◆	.92	.72	.62	—	—
	SOT-223	600	.015	.200	.003	1.7	0.8	75	S6X8TSRPCT-ND◆†	.73	.55	.43	1,000	287.70
	SOT-223	800	.015	.200	.003	1.7	0.8	75	S8X8TSRPCT-ND◆†	.68	.53	.45	1,000	300.00
	SOT-89	600	.015	.200	.003	1.7	0.8	75	S6X8BSRPCT-ND◆†	.71	.56	.48	1,000	316.00
1.5	TO-92	200	—	.200	.001	1.5	0.8	60	TCR22-4-ND◆	.82	.65	.55	—	—
	TO-92	400	—	.200	.001	1.5	0.8	40	TCR22-6-ND◆	.92	.72	.62	—	—
	TO-92	600	—	.200	.002	1.5	0.8	30	TCR22-8-ND	1.12	.87	.75	—	—
	SOT-223	600	.015	.200	.003	1.7	0.8	25	S602TSRPCT-ND◆†	.81	.63	.54	1,000	378.00
6.0	TO-220AB	400	—	.200	.005	1.6	0.8	8 Typ.	S4006LS2-ND◆	1.85	1.58	1.35	—	—
8.0	TO-220AB	400	—	.200	.005	1.6	0.8	8 Typ.	S4008LS2-ND◆	1.90	1.67	1.42	—	—
10.0	TO-220AB	400	—	.200	.005	1.6	0.8	8 Typ.	S4010LS2-ND◆	2.06	1.82	1.54	—	—
Sensitive Gate — Non-Isolated — RoHS Compliant														
0.8	COMPAK	200	—	.05	2.0	1.7	0.8	25	S2S2CT-ND†	1.12	.87	.75	2,500	446.40/M
	COMPAK	200	—	.200	2.0	1.7	0.8	30	S2SCT-ND†	.97	.76	.65	2,500	387.00/M
	COMPAK	400	—	.200	2.0	1.7	0.8	30	S4SCT-ND†	1.07	.83	.72	2,500	426.60/M
	COMPAK	600	—	.05	2.0	1.7	0.8	10	S6S2CT-ND†	1.34	1.14	.97	2,500	584.50/M
4.0	TO-252AA	200	—	.200	.002	2.2	0.8	8 Typ.	S2004DS2CT-ND†	1.12	.96	.82	2,500	490.00/M
6.0	TO-252AA	200	—	.200	.005	1.6	0.8	10 Typ.	S2006DS2CT-ND†	1.16	.99	.85	2,500	509.26/M
	TO-252AA	600	—	.200	.005	1.6	0.8	8 Typ.	S6006DS2CT-ND†	1.55	1.32	1.13	2,500	679.00/M
8.0	TO-252AA	200	—	.200	.005	1.6	0.8	10 Typ.	S2008DS2CT-ND†	1.25	1.07	.91	—	—
Non-Sensitive Gate — Isolated														
1.0	TO-92	200	1	10	.01	1.6	1.5	20	S201E-ND◆	1.07	.83	.72	—	—
	TO-92	400	1	10	.01	1.6	1.5	20	S401E-ND◆	1.12	.87	.75	—	—
	TO-92	600	1	10	.01	1.6	1.5	20	S601E-ND	1.08	.92	.79	—	—
6.0	TO-220AB	200	1	15	.01	1.6	1.5	350	S2006L-ND◆	1.64	1.40	1.19	—	—
	TO-220AB	400	1	15	.01	1.6	1.5	350	S4006L-ND◆	1.72	1.47	1.25	—	—
	TO-220AB	600	1	15	.01	1.6	1.5	350	S6006L-ND◆	1.85	1.58	1.35	—	—
8.0	TO-220AB	200	1	15	.01	1.6	1.5	350	S2008L-ND◆	1.85	1.58	1.35	—	—
	TO-220AB	400	1	15	.01	1.6	1.5	350	S4008L-ND◆	1.94	1.65	1.41	—	—
	TO-220AB	600	1	15	.01	1.6	1.5	300	S6008L-ND◆	1.94	1.71	1.45	—	—
10.0	TO-220AB	200	1	15	.01	1.6	1.5	350	S2010L-ND◆	1.90	1.67	1.42	—	—
	TO-220AB	400	1	15	.01	1.6	1.5	350	S4010L-ND◆	2.02	1.78	1.51	—	—
	TO-220AB	600	1	15	.01	1.6	1.5	300	S6010L-ND◆	2.14	1.89	1.60	—	—
	TO-220AB	800	1	15	.02	1.6	1.5	250	S8010L-ND◆	2.30	2.03	1.72	—	—
15.0	TO-220AB	400	1	30	.01	1.6	1.5	450	S4015L-ND◆	2.18	1.93	1.63	—	—
	TO-220AB	600	1	30	.01	1.6	1.5	425	S6015L-ND◆	2.30	2.03	1.72	—	—
	TO-220AB	800	1	30	.02	1.6	1.5	400	S8015L-ND◆	2.46	2.17	1.84	—	—
20.0	TO-220AB	400	1	30	.01	1.6	1.5	450	S4020L-ND◆	2.46	2.17	1.84	—	—
	TO-220AB	600	1	30	.01	1.6	1.5	425	S6020L-ND◆	2.63	2.31	1.96	—	—
	TO-220AB	800	1	30	.02	1.6	1.5	400	S8020L-ND◆	2.79	2.46	2.09	—	—
25.0	TO-220AB	200	1	35	.01	1.6	1.5	450	S2025L-ND◆	2.71	2.39	2.03	—	—
	TO-220AB	400	1	35	.01	1.6	1.5	450	S4025L-ND◆	2.91	2.56	2.17	—	—
	TO-220AB	600	1	35	.01	1.6	1.5	425	S6025L-ND◆	3.07	2.70	2.30	—	—
	TO-220AB	800	1	35	.02	1.6	1.5	400	S8025L-ND◆	3.27	2.88	2.45	—	—
35.0	TO-218AC	800	5	40	.02	1.8	1.5	400	S8035KTP-ND◆	6.63	5.88	4.55	—	—
65.0	TO-218X	200	5	50	.02	1.8	2.0	650	S2065JTP-ND◆	8.24	7.47	5.93	—	—
	TO-218X	400	5	50	.02	1.8	2.0	650	S4065JTP-ND◆	8.82	8.00	6.35	—	—
	TO-218X	600	5	50	.02	1.8	2.0	600	S6065JTP-ND◆	9.40	8.53	6.76	—	—
	TO-218	800	5	50	.02	1.8	2.0	500	S8065KTP-ND◆	9.75	8.84	7.02	—	—
Non-Sensitive Gate — Non-Isolated — RoHS Compliant														
6.0	TO-252AA	200	1	15	.01	1.6	1.5	350	S2006DCT-ND†	1.20	1.03	.88	2,500	526.76/M
	TO-252AA	400	1	15	.01	1.6	1.5	350	S4006DCT-ND†	1.30	1.11	.94	2,500	567.00/M
8.0	TO-220AB	400	1	15	.01	1.6	1.5	350	S4008R-ND	1.76	1.50	1.28	—	—
	TO-220AB	600	1	15	.01	1.6	1.5	300	S6008R-ND	1.90	1.62	1.38	—	—
12.0	TO-220AB	400	1	20	.01	1.6	1.5	350	S4012R-ND	1.90	1.67	1.42	—	—
16.0	D2-PAK	400	1	30	.01	1.6	1.5	450	S4016NRPCT-ND†	2.30	2.03	1.72	500	704.95
25.0	D2-PAK	600	1	35	.01	1.6	1.5	425	S6025NRPCT-ND†	3.15	2.78	2.36	500	966.00
	TO-220AB	600	1	35	.01	1.6	1.5	425	S6025R-ND	2.79	2.46	2.09	—	—
	TO-220AB	800	1	35	.01	1.6	1.5	400	S8025R-ND	2.95	2.60	2.21	—	—
40.0	TO-220AB	400	5	40	.01	1.8	1.5	350	S4040R-ND	4.11	3.64	2.82	—	—
	TO-220AB	800	5	40	.02	1.8	1.5	500	S8040R-ND	4.67	4.14	3.21	—	—
	TO-220AB	1000	5	40	.03	1.8	1.5	250	SK040R-ND	4.94	4.38	3.39	—	—
55.0	TO-220AB	200	5	40	.01	1.8	1.5	650	S2055R-ND	4.03	3.58	2.77	—	—
	TO-220AB	600	5	40	.01	1.8	1.5	600	S6055R-ND	4.60	4.08	3.16	—	—
	TO-220AB	800	5	40	.02	1.8	1.5	500	S8055R-ND	4.90	4.34	3.36	—	—
	TO-218AC	800	5	40	.02	1.8	1.5	500	S8055MTP-ND	6.48	5.75	4.45	—	—
70.0	TO-218X	600	5	50	.02	1.8	2.0	600	S6070WTP-ND	8.72	7.90	6.27	—	—

◆ ***RoHS Compliant*** ‡ .05mA@125°C † Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

Isolated

TO-92

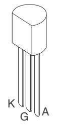

SOT-223

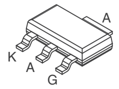

TO-220AB

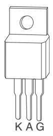

TO-218X

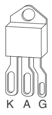

TO-218AC, TO-218

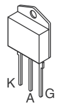

SOT-89

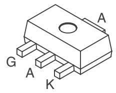

Non-Isolated

COMPAK

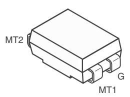

D-PAK, TO-252AA

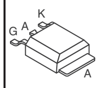

TO-220AB

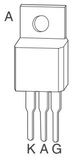

D2-PAK

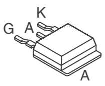

TO-218X

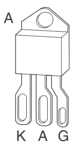

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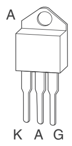

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

Dimensions in mm

Fig. 1

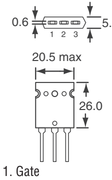

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 2

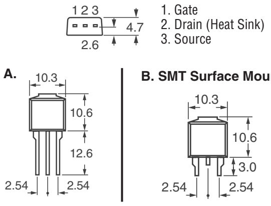

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 3

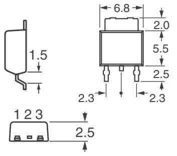

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 4

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

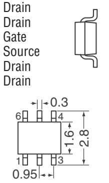

Fig. 5

A.	B.
1. Source	1. Source
2. Source	2. Gate
3. Source	3. Source
4. Gate	4. Gate
5. Drain	5. Drain
6. Drain	6. Drain
7. Drain	7. Drain
8. Drain	8. Drain

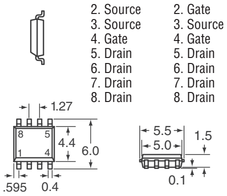

Fig. 6

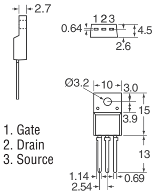

1. Gate
2. Drain
3. Source

Fig. 7

A.	B.	C.
1. Source 1	1. Anode	1. Drain
2. Gate 1	2. Anode	2. Drain
3. Source 2	3. Source	3. Drain
4. Gate 2	4. Gate	4. Gate
5. Drain 2	5. Drain	5. Source
6. Drain 2	6. Drain	6. Drain
7. Drain 1	7. Cathode	7. Drain
8. Drain 1	8. Cathode	8. Drain

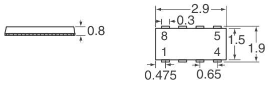

Fig. 8

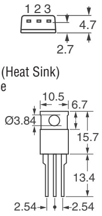

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 9

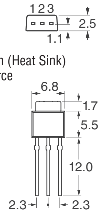

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 10

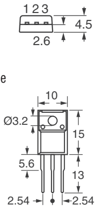

1. Gate
2. Drain
3. Source

Fig. 11

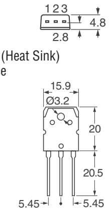

1. Gate
2. Drain (Heat Sink)
3. Source

Fig. 12

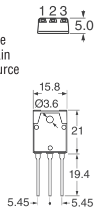

1. Gate
2. Drain
3. Source

Fig.	Package Type	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
P-Channel												
1	TO-3PL	-200	0.625	-12	—	150	2SJ201YF-ND◆	9.80	8.82	7.26	—	—
2A	(2-10S1B)	-100	0.15	-16	-64	60	2SJ412Q-ND◆	2.43	2.20	1.77	—	—
2B	TO-220SM	-100	0.15	-16	-64	60	2SJ412QCT-ND‡◆	3.37	2.89	2.36	1,000	1396.00
		-100	0.15	-16	-64	60	2SJ412SMQ-ND◆ ***NEW!***	2.14	1.72	1.29	—	—
3	2-7B2B	-60	0.16	-5	-20	20	2SJ377NQCT-ND‡◆	1.64	1.47	1.17	2,000	603.00/M
4	VS-6 (2-3T1A)	-20	0.011	-2.7	-10.8	0.7	TPC6105TE85LFCT-ND‡◆	.75	.61	.46	3,000	212.00/M
		-30	0.050	-4.5	-18	0.7	TPC6108TE85LFMCT-ND‡◆	.71	.62	.49	3,000	233.00/M
		-30	0.011	-5	-2.0	0.7	TPC6109-HTE85LFCT-ND‡◆	.84	.74	.57	—	—
		-30	0.040	-5.5	-22	2.2	TPC6111TE85LFCT-ND‡◆ ***NEW!***	.72	.55	.41	—	—
5A	SOP-8	-30	0.014	-10	-40	1.0	TPC8109QCT-ND‡◆	1.02	.92	.73	3,000	375.00/M
		-30	0.0031	-18	-72	1.0	TPC8114TE12LQMCT-ND‡◆	2.13	1.83	1.49	3,000	821.00/M
7A	VS-8	-12	0.028	-6	-24	2.5	TPCF8101CT-ND‡	.76	.57	.43	—	—
		-12	0.028	-6	-24	2.5	TPCF8101FCT-ND‡◆	1.10	.99	.79	4,000	406.00/M
		-20	0.030	-6	-24	2.5	TPCF8102FCT-ND‡◆	.76	.64	.51	—	—
		-20	0.11	-2.7	-10.8	2.5	TPCF8103FCT-ND‡◆	.90	.68	.51	4,000	328.00/M
		-30	0.021	-6	-24	2.5	TPCF8104FMCT-ND‡◆	1.03	.89	.71	4,000	339.00/M
7B	VS-8	-20	0.11	-2.7	-10.8	1.35	TPCF8B01FCT-ND‡◆	.96	.86	.69	4,000	354.00/M
13	SOPA-8	-30	0.0037	-40	—	45	TPCA8106TE12LQMCT-ND‡◆ ***NEW!***	1.89	1.72	1.38	3,000	825.00/M
17B	PS-8	-40	0.031	-4.8	-19.2	1.68	TPCP8103-H(TE85LFMCT-ND‡◆ ***NEW!***	.92	.80	.63	3,000	303.00/M
21	UFM	-20	0.1	-1.8	-3.6	0.8	SSM3J114TU(T5LT)CT-ND‡◆ ***NEW!***	.50	.40	.30	3,000	140.00/M
		-20	0.077	-2.2	-4.4	0.8	SSM3J115TU(TE85L)CT-ND‡◆ ***NEW!***	.50	.40	.30	3,000	140.00/M
		-20	0.028	-4.0	-8.0	0.8	SSM3J120TU(TE85L)CT-ND‡◆ ***NEW!***	.60	.48	.33	3,000	137.00/M
		-20	0.046	-4.6	-9.2	0.5	SSM3J129TU(TE85L)CT-ND‡◆ ***NEW!***	.55	.44	.33	3,000	155.00/M
		-20	0.0258	-4.4	-8.8	0.8	SSM3J130TU(TE85L)CT-ND‡◆ ***NEW!***	.66	.53	.40	3,000	186.00/M
22	TSM	-20	0.031	-5.0	-10	0.7	SSM3J307T(TE85LF)CT-ND‡◆ ***NEW!***	.55	.44	.33	3,000	155.00/M
		-20	0.107	-3.6	-7.2	0.7	SSM3J317T(TE85LF)CT-ND‡◆ ***NEW!***	.66	.53	.40	3,000	186.00/M
		-20	0.046	-5.2	-10.4	0.7	SSM3J321T(TE85LF)CT-ND‡◆ ***NEW!***	.55	.44	.33	3,000	155.00/M
23	CST3B	-20	0.103	-2.0	-4.0	1.0	SSM3J46CTB(TPL3)CT-ND‡◆ ***NEW!***	.66	.53	.40	10,000	162.00/M
26	UFV	-20	0.16	-1.5	-3.0	0.5	SSM5G10TU(TE85LF)CT-ND‡◆ ***NEW!***	.66	.53	.40	3,000	186.00/M
27A	ES6	-20	0.095	-1.8	-3.6	0.5	SSM6J53FE(TE85LF)CT-ND‡◆ ***NEW!***	.67	.54	.41	4,000	189.00/M
		-20	0.175	-0.8	-1.6	0.5	SSM6J205FE(TE85LFCT-ND‡◆ ***NEW!***	.70	.57	.43	4,000	198.00/M
		-20	0.091	-2	-4	0.5	SSM6J206FE(TE85LFCT-ND‡◆ ***NEW!***	.72	.58	.44	4,000	203.00/M
		-20	0.0407	-4.0	-8.0	0.5	SSM6J212FE(TE85LFCT-ND‡◆ ***NEW!***	.66	.57	.45	4,000	218.00/M
		-30	0.191	-1.4	-2.8	0.5	SSM6J207FE(TE85LFCT-ND‡◆ ***NEW!***	.72	.58	.44	4,000	203.00/M
28	UF6	-12	0.038	-4	-8	0.5	SSM6J51TU(TE85LF)CT-ND‡◆ ***NEW!***	.66	.57	.45	3,000	218.00/M
		-20	0.0221	-9.5	-19.0	1	SSM6J409TU(TE85LFCT-ND‡◆ ***NEW!***	.88	.76	.60	3,000	290.00/M
31	TO-220SM	-60	0.0055	-120	-360	300	TJ120F06J3(TE24LQCT-ND‡◆ ***NEW!***	5.67	5.11	4.16	1,000	2646.00
32	8TSON	-30	0.0094	-18	-54	27	TPCC8103(TE12LQM)CT-ND‡◆ ***NEW!***	1.29	1.16	.92	3,000	476.00/M
N-Channel — RoHS Compliant												
2B	TO-220SM	200	0.13	15	45	75	2SK2401TE24LQCT-ND‡	2.69	2.15	1.62	—	—
3	2-7J1B	60	0.12	5	20	20	2SK2231TE16RQCT-ND‡	1.09	.98	.78	2,000	402.00/M
4	VS-6 (2-3T1A)	20	0.024	6	24	2.2	TPC6004TE85LFMCT-ND‡ ***NEW!***	.60	.45	.34	3,000	195.00/M
		30	0.028	6	24	2.2	TPC6005TE85LFMCT-ND‡ ***NEW!***	.60	.45	.34	3,000	195.00/M
		30	0.04	5	20	2.2	TPC6007-HTE85LFCT-ND‡ ***NEW!***	.55	.42	.32	3,000	179.40/M
5A	SOP-8	30	0.008	13	52	1.0	TPC8009-HQCT-ND‡	1.05	.88	.70	—	—
		30	0.0051	15	60	1.9	TPC8017-HQCT-ND‡	1.95	1.68	1.37	3,000	753.00/M
		30	0.0046	18	72	1.9	TPC8018-HQCT-ND‡	2.11	1.81	1.48	3,000	813.00/M
		30	0.0026	18	72	1.9	TPC8034-HTE12LQMCT-ND‡ ***NEW!***	1.53	1.23	.92	3,000	782.08/M
		30	0.0023	18	72	1.9	TPC8035-HTE12LQMCT-ND‡ ***NEW!***	1.44	1.15	.87	3,000	734.72/M
		30	0.0027	18	72	1.9	TPC8042TE12LQMCT-ND‡ ***NEW!***	1.62	1.44	1.14	3,000	647.00/M
		40	0.0039	18	72	1.9	TPC8045-HTE12LQMCT-ND‡ ***NEW!***	2.13	1.93	1.55	3,000	929.00/M
		60	0.0069	16	64	1.9	TPC8048-HTE12LQCT-ND‡ ***NEW!***	1.94	1.76	1.42	3,000	846.00/M
		80	0.0097	13	52	1.9	TPC8051-HTE12LQCT-ND‡ ***NEW!***	2.20	1.99	1.60	3,000	957.00/M
5B	SOP-8	30	0.011	8	32	1.5	TPC8210TE12LQMCT-ND‡	1.60	1.45	1.16	—	—
6	TO-220F	75	0.0036	80	320	40	TK80A08K3Q-ND ***NEW!***	2.46	1.97	1.48	—	—
		600	1	6	24	40	TK6A60DSTA4QM-ND ***NEW!***	1.66	1.48	1.17	—	—
		600	0.62	10	40	45	TK10A60DSTA4QM-ND ***NEW!***	2.19	1.98	1.59	—	—
		600	0.36	12	24	35	TK12A60UQ-ND ***NEW!***	2.83	2.27	1.77	—	—
		600	0.33	13	52	50	TK13A60DSTA4QM-ND ***NEW!***	2.96	2.65	2.17	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND † Isolated Tab ‡ Cut Tape ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig. 13

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

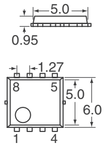

Fig. 14

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

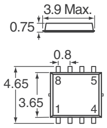

Fig. 15

1. Gate
2. Drain
3. Source

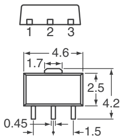

Fig. 16

1. Gate
2. Drain
3. Source

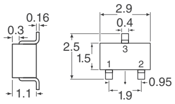

Fig. 17

A.
1. Source 1
2. Gate 1
3. Source 2
4. Gate 2
5. Drain 2
6. Drain 2
7. Drain 1
8. Drain 1

B.
1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

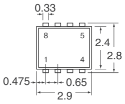

Fig. 18 ***NEW!***

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

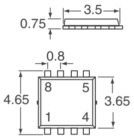

Fig. 19 ***NEW!***

1. Gate
2. Drain
3. Source

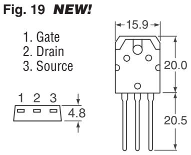

Fig. 20 ***NEW!***

1. Gate
2. Drain
3. Source

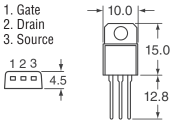

Fig. 21 ***NEW!***

1. Gate
2. Source
3. Drain

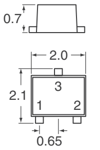

Fig. 22 ***NEW!***

1. Gate
2. Source
3. Drain

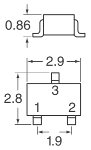

Fig. 23 ***NEW!***

1. Gate
2. Source
3. Drain

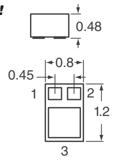

Fig. 24 ***NEW!***

1. Gate
2. Source
3. Drain

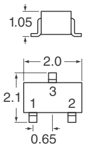

Fig. 25 ***NEW!***

1. Gate
2. Source
3. Drain
4. Drain

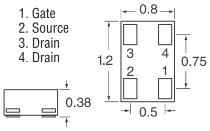

Fig. 26 ***NEW!***

1. Gate
2. Source
3. Anode
4. Cathode
5. Drain

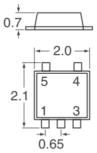

Fig. 27 ***NEW!***

A.
1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

B.
1. Source1
2. Gate 1
3. Drain 2
4. Source 2
5. Gate 2
6. Drain 1

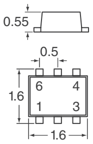

Fig. 28 ***NEW!***

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

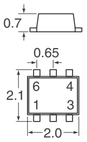

Fig. 29 ***NEW!***

1. Source1
2. Gate 1
3. Drain 2
4. Source 2
5. Gate 2
6. Drain 1

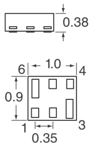

Fig.	Package Type	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
6	TO-220SIS	500	0.4	12	48	40	2SK3568QM-ND	2.55	2.05	1.59	—	—
		500	0.75	8	32	40	2SK3561QM-ND	1.89	1.71	1.38	—	—
		500	1.35	5	20	35	2SK3563Q-ND	1.29	1.03	.78	—	—
		600	0.24	15	30	40	TK15A60UQ-ND	2.77	2.22	1.73	—	—
		600	0.165	20	40	40	TK20A60UQM-ND	5.78	5.17	4.24	—	—
		600	3.3	2	8	25	2SK3767Q-ND	1.07	.95	.75	—	—
		600	0.9	6	24	40	2SK3562Q-ND†	1.70	1.36	1.02	—	—
		600	1.7	3.5	14	35	2SK3567Q-ND†	1.78	1.61	1.30	—	—
		900	2.0	5	15	45	2SK3565QM-ND	2.57	2.32	1.87	—	—
		900	2.2	5	15	45	2SK3742Q-ND†	2.82	2.56	2.05	—	—
		900	3.7	3	9	40	2SK3564Q-ND†	1.46	1.17	.88	—	—
		900	5.6	2.5	7.5	40	2SK3566Q-ND	1.45	1.21	.97	—	—
	SC-67 TO-220SIS	600	2.2	2.5	10	30	TK3A60DA(Q)-ND ***NEW!***	1.21	1.08	.86	—	—
		600	1.4	4	16	35	TK4A60D(Q)-ND ***NEW!***	1.47	1.31	1.03	—	—
		650	1.2	5	20	40	TK5A65D(STA4QM)-ND ***NEW!***	1.62	1.47	1.18	—	—
		650	0.95	6	24	45	TK6A65D(STA4QM)-ND ***NEW!***	1.94	1.76	1.42	—	—
		650	0.7	8	32	45	TK8A65D(STA4QM)-ND ***NEW!***	2.40	2.17	1.75	—	—
		650	0.32	13	26	40	TK13A65U(STA4QM)-ND ***NEW!***	3.30	2.95	2.42	—	—
7B	VS-8	20	0.049	3	12	1.35	TPCF8A01FCT-ND‡	1.14	.86	.65	4,000	399.00/M
7C	VS-8	30	0.019	7	28	2.5	TPCF8001FCT-ND‡	1.10	.95	.75	4,000	361.00/M
	SOPA-8	40	0.0071	30	90	45	TPCA8014HTE12LQCT-ND‡	1.87	1.61	1.32	3,000	722.00/M
		40	0.0044	35	105	45	TPCA8015HTE12LQCT-ND‡	2.32	2.00	1.63	3,000	896.00/M
		150	0.23	7	14	45	TPCA8009HTE12LQCT-ND‡	1.60	1.45	1.18	—	—
		200	0.38	5.5	11	15	TPCA8010HTE12LQCT-ND‡	1.61	1.29	.97	—	—
8	TO-220AB	100	0.066	27	108	75	2SK2314F-ND	2.19	1.99	1.60	—	—
		400	0.40	10	40	80	2SK2841F-ND	3.01	2.69	2.21	—	—
		500	0.75	8	32	80	2SK2542F-ND	2.79	2.52	2.03	—	—
9	2-7J2B	60	0.07	5	20	20	2SK4017Q-ND ***NEW!***	.66	.50	.38	—	—
10	SC-67 (2-10R1B)	60	0.036	25	100	35	2SK2232FT-ND	1.73	1.53	1.21	—	—
11	2-16C1B	500	0.35	15	60	150	2SK2698FT-ND	4.56	4.08	3.35	—	—
		900	1.05	10	30	150	2SK2968FT-ND	4.56	4.08	3.35	—	—
12	2-16F1B	600	0.31	15	60	90	2SK2953F-ND	7.19	6.48	5.33	—	—
13	SOPA-8	30	0.0035	40	120	45	TPCA8004-HCT-ND‡	2.34	2.01	1.64	3,000	903.00/M
		30	0.0023	45	135	45	TPCA8019-HTE12LQMCT-ND‡ ***NEW!***	1.59	1.28	.96	3,000	814.08/M
		30	0.0018	45	135	45	TPCA8026TE12LQMCT-ND‡ ***NEW!***	1.59	1.28	.96	3,000	814.08/M
		30	0.002	50	150	45	TPCA8028-HTE12LQMCT-ND‡ ***NEW!***	1.93	1.54	1.16	3,000	985.60/M
		40	0.0024	46	138	45	TPCA8045-HTE12LQMCT-ND‡ ***NEW!***	2.32	1.86	1.40	3,000	1187.84/M
		60	0.0043	35	105	45	TPCA8048-HTE12LQCT-ND‡ ***NEW!***	2.16	1.96	1.57	3,000	941.00/M
		80	0.006	28	84	45	TPCA8051-HTE12LQCT-ND‡ ***NEW!***	2.44	2.21	1.78	3,000	1064.00/M
14	8-TSSOPA	30	0.007	20	60	30	TPCM8001HTE12LQCT-ND‡	1.67	1.50	1.19	3,000	615.00/M
15	PW-MINI	16	0.29	2	6	0.5	2SK2549TE12LFCT-ND‡	.99	.89	.71	—	—
		100	0.5	1	3	0.5	2SK2963FCT-ND‡	.95	.83	.65	1,000	346.00
16	S-MINI	60	3.3	0.2	0.8	0.2	SSM3K7002FCT-ND‡	.42	.30	.18	3,000	60.00/M
17B	PS-8	20	0.01	9.1	36.4	1.68	TPCP8002TE85LFMCT-ND‡	1.01	.91	.72	3,000	371.00/M
		30	0.007	8.3	33.2	1.68	TPCP8004(TE85LF)CT-ND‡ ***NEW!***	1.02	.88	.70	3,000	335.00/M
		30	0.0098	11	44	1.68	TPCP8005-HTE85LFCT-ND‡ ***NEW!***	.96	.86	.69	3,000	353.00/M
18	TSSOP Advance	30	0.0047	30	90	30	TPCM8002-HTE12LQCT-ND‡ ***NEW!***	1.34	1.08	.81	3,000	686.08/M
		30	0.011	24	—	30	TPCM8004-H(TE12LQCT-ND‡ ***NEW!***	1.50	1.35	1.07	3,000	554.00/M
19	TO-3P	600	0.24	15	30	170	TK15J60UF-ND ***NEW!***	3.19	2.56	1.99	—	—
	TO-3PN	600	0.36	12	24	144	TK12J60UF-ND ***NEW!***	2.72	2.18	1.70	—	—
		600	0.165	20	40	190	TK20J60UF-ND ***NEW!***	4.39	3.52	2.74	—	—
20	TO-220W	75	0.0036	80	320	100	TK80D08K3Q-ND ***NEW!***	2.41	1.93	1.50	—	—
		600	0.36	12	24	144	TK12D60UQ-ND ***NEW!***	2.58	2.07	1.61	—	—
		600	0.24	15	30	170	TK15D60UQ-ND ***NEW!***	3.05	2.44	1.90	—	—
21	UFM	20	0.23	1.2	2.4	0.8	SSM3K106TU(TE85L)CT-ND‡ ***NEW!***	.57	.46	.35	3,000	161.00/M
		20	0.019	4.2	8.4	0.8	SSM3K123TU(T5LT)CT-ND‡ ***NEW!***	.55	.44	.33	3,000	155.00/M
22	TSM	30	0.064	2.9	5.8	0.7	SSM3K303T(TE85LF)CT-ND‡ ***NEW!***	.60	.48	.36	3,000	169.00/M
		30	0.0205	6.0	12.0	0.7	SSM3K315T(T5LFT)CT-ND‡ ***NEW!***	.52	.42	.32	3,000	147.00/M
		30	0.042	4.0	8.0	0.7	SSM3K316T(T5LFT)CT-ND‡ ***NEW!***	.62	.49	.34	3,000	140.00/M
		60	0.0835	2.5	5.0	0.7	SSM3K318T(T5LFT)CT-ND‡ ***NEW!***	.55	.44	.33	3,000	155.00/M
24	USM	60	1.62	0.2	0.8	0.15	SSM3K7002BFU(T5LFCT-ND‡ ***NEW!***	.42	.30	.18	3,000	60.00/M
25	CST4	20	0.175	0.5	1.0	0.4	SSM4K27CT(TPL3)CT-ND‡ ***NEW!***	.66	.53	.40	10,000	162.00/M
26	UFV	30	0.103	1.9	3.8	0.5	SSM5H12TU(TE85LF)CT-ND‡ ***NEW!***	.66	.53	.40	3,000	186.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND † Isolated Tab ‡ Cut Tape ◆ ***RoHS Compliant***

(Continued)

MOSFETs *(Cont.)*

Dimensions in mm

Fig. 30 ***NEW!***

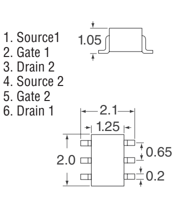

Fig. 31 ***NEW!***

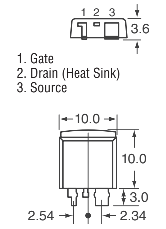

Fig. 32 ***NEW!***

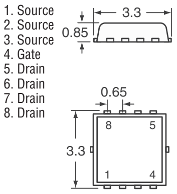

Fig. 33 ***NEW!***

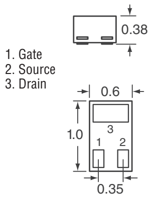

Fig. 34 ***NEW!***

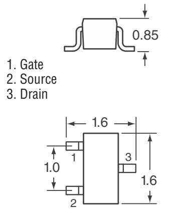

Fig. 35 ***NEW!***

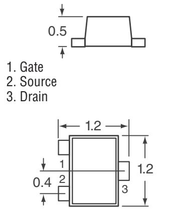

Fig. 36 ***NEW!***

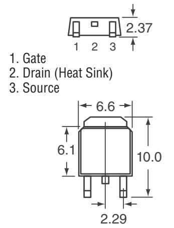

Fig.	Package Type	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
27A	ES6	20	0.047	3.2	6.4	0.5	SSM6K211FE(TE85LFCT-ND‡ ***NEW!***	.66	.57	.45	4,000	218.00/M
		30	0.066	2.3	4.6	0.5	SSM6K202FE(TE85LFCT-ND‡ ***NEW!***	.69	.60	.48	4,000	228.00/M
27B	ES6	30	2.2	0.1	0.2	0.15	SSM6N15FE(TE85LF)CT-ND‡ ***NEW!***	.53	.42	.29	4,000	120.00/M
31	TO-220SM	40	0.0025	100	300	180	TK100F04K3(TE24LQCT-ND‡ ***NEW!***	3.59	3.24	2.64	1,000	1676.00
		60	0.004	100	300	180	TK100F06K3(TE24LQCT-ND‡ ***NEW!***	3.78	3.41	2.78	1,000	1764.00
		60	0.0026	130	390	300	TK130F06K3(TE24LQCT-ND‡ ***NEW!***	4.54	4.09	3.33	1,000	2117.00
32	8TSON	30	0.0083	22	66	30	TPCC8001-H(TE12LQMCT-ND‡ ***NEW!***	1.24	1.11	.89	3,000	456.00/M
		30	0.0083	22	66	30	TPCC8002-H(TE12LQCT-ND‡ ***NEW!***	1.28	1.15	.91	3,000	470.00/M
		30	0.0083	22	66	30	TPCC8002-H(TE12LQMCT-ND‡ ***NEW!***	1.24	1.11	.89	3,000	456.00/M
		30	0.0169	13	39	22	TPCC8003-H(TE12LQMCT-ND‡ ***NEW!***	1.08	.97	.77	3,000	399.00/M
		30	0.0080	22	66	27	TPCC8006-H(TE12LQMCT-ND‡ ***NEW!***	1.19	1.07	.85	3,000	437.00/M
		30	0.0045	25	75	30	TPCC8008(TE12LQM)CT-ND‡ ***NEW!***	1.19	1.07	.85	3,000	437.00/M
		30	0.0071	21	63	30	TPCC8A01-H(TE12LQMCT-ND‡ ***NEW!***	1.19	1.07	.85	3,000	437.00/M
33	CST3	30	2.2	0.1	0.2	0.1	SSM3K15CT(TPL3)CT-ND‡ ***NEW!***	.52	.37	.25	10,000	76.00/M
34	SSM	30	2.2	0.1	0.2	0.1	SSM3K15FST5LFTCT-ND‡ ***NEW!***	.50	.34	.16	3,000	47.00/M
35	VESM	20	1.5	0.18	0.36	0.15	SSM3K35MFV(TPL3)CT-ND‡ ***NEW!***	.62	.44	.27	8,000	79.00/M
36	SC-64	30	0.0058	50	150	60	TK50P03M1(T6RSSQ)CT-ND‡ ***NEW!***	1.03	.89	.71	2,000	339.00/M
		40	0.0067	50	150	60	TK50P04M1(T6RSSQ)CT-ND‡ ***NEW!***	1.09	.95	.75	2,000	360.00/M
Dual N-Channel — RoHS Compliant												
5B	SOP-8	30/30	0.018	6/8.5	24/34	1.5	TPC8A01QCT-ND‡	1.65	1.48	1.18	3,000	608.00/M
7A	VS-8	20	0.049	3	12	1.35	TPCF8201FCT-ND‡	1.10	.95	.75	4,000	361.00/M
17A	PS-8	30	0.023	5.5	22	1.48	TPCP8202TE85LFMCT-ND‡	1.01	.91	.72	3,000	372.00/M
27B	ES6	20	1.5	0.18	0.36	0.15	SSM6N35FE(TE85LF)CT-ND‡ ***NEW!***	.58	.46	.32	4,000	132.00/M
		20	0.46	0.5	1.0	0.15	SSM6N36FE(TE85LF)CT-ND‡ ***NEW!***	.61	.49	.37	4,000	171.00/M
		20	0.24	0.8	1.6	0.15	SSM6N42FE(TE85LF)CT-ND‡ ***NEW!***	.52	.41	.29	4,000	119.00/M
		30	2.2	0.1	0.2	0.15	SSM6N44FE(TE85LF)CT-ND‡ ***NEW!***	.44	.35	.24	4,000	99.00/M
		60	1.62	0.2	0.8	0.15	SSM6N7002BFE(T5LFCT-ND‡ ***NEW!***	.53	.38	.25	4,000	90.00/M
29	CST6D	20	2.20	0.25	0.5	0.14	SSM6N37CTD(TPL3)CT-ND‡ ***NEW!***	.61	.48	.33	10,000	122.00/M
30	US6	60	1.62	0.2	0.8	0.3	SSM6N7002BFULF(TCT-ND‡ ***NEW!***	.53	.38	.25	3,000	90.00/M
Dual P-Channel — RoHS Compliant												
7A	VS-8	-20	0.058	-3	-12	1.35	TPCF8303FCT-ND‡	1.01	.91	.72	4,000	371.00/M
17A	PS-8	-20	0.031	-5	20	1.48	TPCP8301TE85LFMCT-ND‡	1.01	.91	.72	3,000	372.00/M
27B	ES6	-20	4.3	-0.1	-0.2	0.15	SSM6P35FE(TE85LF)CT-ND‡ ***NEW!***	.54	.43	.30	4,000	124.00/M
		-20	1.31	-0.33	-0.66	0.15	SSM6P36FE(TE85LF)CT-ND‡ ***NEW!***	.61	.49	.37	4,000	171.00/M
		-20	0.3	-0.72	-1.44	0.15	SSM6P41FE(TE85LF)CT-ND‡ ***NEW!***	.66	.57	.45	4,000	218.00/M
		-30	8	-0.1	-0.2	0.15	SSM6P15FE(TE85LF)CT-ND‡ ***NEW!***	.44	.35	.24	4,000	99.00/M
Dual N and P-Channel — RoHS Compliant												
5B	SOP-8	40/-40	0.024/0.022	6.5/-6.5	26/-26	1.5	TPC8406-HTE12LQMCT-ND‡	1.35	1.21	.96	3,000	496.00/M
7A	VS-8	30/-30	0.038/0.060	4/-3.2	16/-12.8	1.35	TPCF8402FCT-ND‡	.92	.80	.63	4,000	305.00/M
17A	PS-8	30/-30	0.038/0.058	4.2/-3.4	16.8/-13.6	1.48	TPCP8402TE85LFMCT-ND‡	.82	.72	.57	3,000	271.00/M
27B	ES6	20/-20	1.5/4.3	0.18/-0.1	0.36/-0.2	0.15	SSM6L35FE(TE85LF)CT-ND‡ ***NEW!***	.57	.45	.31	4,000	129.00/M
		20/-20	0.46/1.31	0.5/-0.33	1.0/-0.66	0.15	SSM6L36FE(TE85LF)CT-ND‡ ***NEW!***	.61	.49	.37	4,000	171.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND † Isolated Tab ‡ Cut Tape ◆ ***RoHS Compliant***

Schottky Barrier Rectifiers and Switching Rectifier

Dimensions in mm

Peak Reverse Voltage VRRM (V)	Average Forward Current IF (A)	Peak Surge Forward Current IFSM (A)	Peak Forward Voltage VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Pricing 3,000
M-Flat (3-4E1A) Package											
30	3.0	40	.37	5.0	190	CMS01QCT-ND◆	.75	.65	.51	CMS01QTR-ND◆	247.00/M
30	3.0	40	.40	0.5	170	CMS02QCT-ND◆	.82	.72	.57	CMS02QTR-ND◆	271.00/M
30	3.0	40	.45	0.5	190	CMS03QCT-ND◆	.75	.65	.51	CMS03QTR-ND◆	247.00/M
30	5.0	70	.37	8.0	330	CMS04QMCT-ND◆	.88	.77	.61	CMS04QMTR-ND◆	291.00/M
30	5.0	70	.45	0.8	330	CMS05QMCT-ND◆	.88	.77	.61	CMS05QMTR-ND◆	291.00/M
30	2.0	40	.37	3.0	130	CMS06QMCT-ND◆	.66	.53	.40	CMS06QMTR-ND◆	186.00/M
30	1.0	25	.45	0.5	70	CMS09CT-ND	.48	.36	.27	—	—
40	1.0	25	.55	0.5	50	CMS10QMCT-ND◆	.56	.45	.34	CMS10QMTR-ND◆	157.00/M
40	2.0	30	.55	0.5	95	CMS11QCT-ND◆	.73	.59	.44	CMS11QTR-ND◆	205.00/M
400	1.0	10	1.8	0.01	—	CMH05A(TE12LQ)CT-ND◆§†✔	.72	.62	.49	CMH05A(TE12LQ)TR-ND◆§†✔	236.00/M
400	2.0	20	1.8	0.01	—	CMH08A(TE12LQ)CT-ND◆§†✔	.80	.70	.55	CMH08A(TE12LQ)TR-ND◆§†✔	264.00/M
800	0.5	10	2.5	0.05	—	CMF04(TE12LQM)CT-ND◆‡†✔	.64	.51	.35	CMF04(TE12LQM)TR-ND◆‡†✔	145.00/M
1,000	0.5	10	2.7	0.05	—	CMF05(TE12LQM)CT-ND◆‡†✔	.64	.51	.35	CMF05(TE12LQM)TR-ND◆‡†✔	145.00/M
S-Flat (3-2A1A) Package											
20	1.0	20	.36	1.0	60	CRS06QMCT-ND◆	.57	.45	.31	CRS06QMTR-ND◆	129.00/M
30	1.0	20	.37	1.5	40	CRS01QCT-ND◆	.47	.38	.26	CRS01QTR-ND◆	107.00/M
30	1.0	20	.40	0.05	40	CRS02QCT-ND◆	.62	.49	.34	CRS02QTR-ND◆	142.00/M
30	1.0	20	.45	0.1	40	CRS03CT-ND	.51	.41	.29	CRS03TR-ND	119.00/M
30	1.0	20	.45	0.1	40	CRS03QCT-ND◆	.47	.38	.26	CRS03QTR-ND◆	107.00/M

M-Flat Package (3-4E1A)

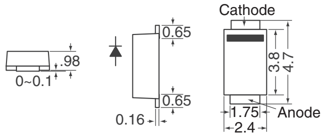

S-Flat Package (3-2A1A)

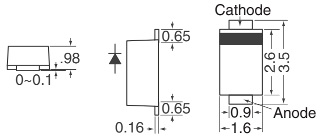

◆ ***RoHS Compliant*** § Reverse Recovery Time — Trr 35ns ‡ Reverse Recovery Time — Trr 100ns † Switching type ✔ ***NEW!***

(Continued)

Schottky Barrier Rectifiers and Switching Rectifier *(Cont.)*

Dimensions in mm

Peak Reverse Voltage VRRM (V)	Average Forward Current IF (A)	Peak Surge Forward Current IFSM (A)	Peak Forward Voltage VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
30	1.5	30	.36	1.0	90	CRS08QMCT-ND◆	.63	.50	.34	CRS08QMTR-ND◆	144.00/M
30	1.5	30	.46	0.05	90	CRS09QCT-ND◆	.61	.48	.33	CRS09QTR-ND◆	139.00/M
30	1.0	20	.36	1.5	60	CRS11QCT-ND◆	.59	.48	.36	CRS11QTR-ND◆	166.00/M
40	1.0	20	.49	0.1	47	CRS04QCT-ND◆	.56	.44	.31	CRS04QTR-ND◆	127.00/M
200	1.0	15	.98	0.01	—	CRH01QCT-ND◆§†	.63	.50	.34	CRH01QTR-ND◆§†	144.00/M
NEW! Ultra High Speed (1-3G1B) — RoHS Compliant NEW!											
85	0.1	2	.60	.0005	3	1SS193T5LFTCT-ND	.30	.23	.16	1SS193T5LFTTR-ND	60.00/M

◆ ***RoHS Compliant*** § Reverse Recovery Time — Trr 35ns ‡ Reverse Recovery Time — Trr 100ns † Switching type ✔ ***NEW!***

Ultra High Speed (1-3G1B) ***NEW!***

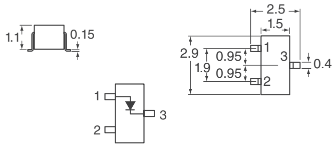

Bipolar Transistors

Type	Collector - Emitter Voltage VCEO (V)	Collector Power IC (A)	Collector Power Dissipation PC (W)	Digi-Key Part No.	Pricing 1	10	100
TO-220(NIS) Package							
PNP	-230	-1	20	2SA1837FM-ND	.72	6.30	48.60
PNP	-180	-2	20	2SA1930QM-ND ***NEW!***	.92	6.93	51.98
NPN	230	1	20	2SC4793FM-ND	.85	7.46	57.51
TO-3P(N) Package							
PNP	-230	-15	130	2SA1962-OQ-ND	3.08	27.50	225.50
NPN	230	15	130	2SC5242-OQT-ND	3.08	27.50	225.50
TO-3P(L) Package							
PNP	-230	-15	150	2SA1943-OQ-ND	3.08	27.50	225.50
NPN	230	15	150	2SC5200-OQ-ND	3.41	30.80	247.50
S-MINI Package							
PNP	-50	-150mA	150	2SA1162-GRCT-ND†	.42	3.00	18.00
PNP	-50	-150mA	150	2SA1162-GRTR-ND‡		180.00/3,000	
PNP	-50	-150mA	150	2SA1162-YCT-ND†	.50	3.40	16.00
PNP	-50	-150mA	150	2SA1162-YTR-ND‡		141.00/3,000	
NPN	50	150mA	150	2SC2712-YCT-ND†	.50	3.40	16.00
NPN	50	150mA	150	2SC2712-YTR-ND‡		141.00/3,000	
TO-92 Package							
NPN	50	150mA	400mW	2SC1815GRTE2FCT-ND†	.62	4.40	26.40
NPN	50	150mA	400mW	2SC1815GRTE2FTB-ND§		264.00/3,000	
NPN	50	150mA	400mW	2SC1815YTE2FCT-ND†	.62	4.40	26.40
NPN	50	150mA	400mW	2SC1815YTE2FTB-ND§		264.00/3,000	

† Cut Tape ‡ Tape and Reel § Tape and Box

TO-220 (NIS) (2-10R1A)

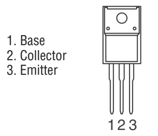

TO-3P(N) (2-16C1A)

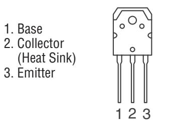

TO-3P(L) (2-21F1A)

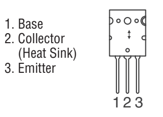

S-MINI

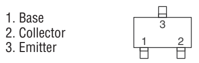

TO-92 (2-5F1B)

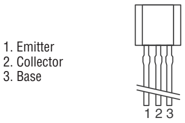

Zener Diodes

Maximum Ratings (Ta=25°C): Power dissipation 700 mW

Dimensions in mm

Zener Voltage Typical VZ (V)	Maximum Impedance rd (Ω)	Test Current IZ (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
S-Flat Package								
6.8	60	10	CRY68(TE85LQM)CT-ND◆ ***NEW!***	.60	.48	.36	CRY68(TE85LQM)TR-ND◆ ***NEW!***	169.00/M
7.5	30	10	CRY75(TE85LQM)CT-ND◆ ***NEW!***	.60	.48	.36	CRY75(TE85LQM)TR-ND◆ ***NEW!***	169.00/M
8.2	30	10	CRY82(TE85LQM)CT-ND◆ ***NEW!***	.60	.48	.36	CRY82(TE85LQM)TR-ND◆ ***NEW!***	169.00/M
16.0	30	10	CRZ16CT-ND	.53	.40	.30	CRZ16TR-ND	205.00/M
16.0	30	10	CRZ16QCT-ND◆	.66	.53	.40	—	—
36.0	30	9	CRZ36CT-ND	.60	.45	.34	CRZ36TR-ND	303.03/M
39.0	35	8	CRZ39CT-ND	.60	.45	.34	CRZ39TR-ND	130.00/M

◆ ***RoHS Compliant***

S-Flat Package (3-2A1A)

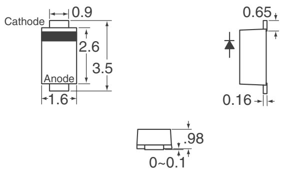

Varactors — Silicon Epitaxial

Dimensions in mm

Fig.	Reverse Voltage Min. (V)	Reverse Current Max.	Capacitance Ratio Typ. (pF)	Series Resistance Typ. (Ω)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing
1	15	10nA	2.1(C3V/C8V)§	0.3	SOT23	1SV228FCT-ND	.66	5.70	45.00	3,000	218.00/M
	30	10nA	14.5(C1V/C28V)	0.65	SOT23	1SV242FCT-ND	.52	3.90	29.25	—	—
2	15	3nA	2.5(C2V/C10V)	0.2	1-2U1A	1SV306FCT-ND	.72	5.72	42.90	3,000	202.00/M
3	10	3nA	3(C1V/C4V)	0.27	1-1E1A	1SV304FCT-ND	.62	4.85	33.15	—	—
	10	3nA	4.3(C1V/C4V)	0.4	1-1E1A	1SV322FCT-ND	.63	5.06	37.95	—	—
	15	3nA	2.5(C2V/C10V)	0.2	1-1E1A	1SV229FCT-ND	.58	4.56	31.20	3,000	132.00/M
	15	3nA	2.4(C2V/C10V)	0.44	1-1E1A	1SV239FCT-ND	.44	3.42	23.40	3,000	99.00/M
	30	10nA	5.7(C2V/C25V)	1.2	1-1E1A	1SV245FCT-ND	.44	3.42	23.40	3,000	99.00/M
	30	10nA	7.3(C2V/C25V)§	1.9	1-1E1A	1SV287FCT-ND	.40	3.20	24.00	—	—
	30	10nA	10.5(C2V/C25V)	0.55	1-1E1A	1SV232(TPH3F)CT-ND✔	.58	4.56	31.20	3,000	132.00/M
	30	10nA	15(C2V/C25V)	1.05	1-1E1A	1SV231(TPH3F)CT-ND✔	.50	3.60	21.60	3,000	72.00/M
	34	10nA	11.5(C2V/C25V)	0.55	1-1E1A	1SV269(TPH3F)CT-ND✔	.59	4.20	25.20	3,000	84.00/M
	50	0.1µA	0.4(CT)	4.5	1-1E1A	1SV271FCT-ND	.58	4.56	31.20	3,000	132.00/M
4	10	3nA	2.0(C1V/C4V)	0.28	1-1G1A	1SV281(TPH3F)CT-ND✔	.58	4.56	31.20	4,000	132.00/M
	10	3nA	2.1(C1V/C4V)	0.28	1-1G1A	1SV311FCT-ND	.62	4.85	33.15	4,000	140.00/M
	10	3nA	2.3(C1V/C4V)	0.42	1-1G1A	1SV285FCT-ND	.58	4.56	31.20	4,000	132.00/M
	10	3nA	3(C1V/C4V)	0.27	1-1G1A	1SV305FCT-ND	.62	4.85	33.15	4,000	140.00/M
	10	3nA	4.3(C1V/C4V)	0.4	1-1G1A	1SV323FCT-ND	.63	5.06	37.95	4,000	178.00/M
	15	3nA	2.4(C2V/C10V)	0.44	1-1G1A	1SV280FCT-ND	.58	4.56	31.20	4,000	132.00/M
	30	10nA	6.5(C2V/C25V)	0.4	1-1G1A	1SV278B(TH3FT)CT-ND✔	.42	3.00	18.00	4,000	60.00/M
	30	10nA	6.5(C2V/C25V)	0.4	1-1G1A	1SV278TH3FTCT-ND✔	.58	4.56	31.20	4,000	132.00/M
	30	10nA	8.9(C2V/C20V)	0.73	1-1G1A	1SV286FCT-ND	.58	4.56	31.20	4,000	132.00/M
	30	0.1µA	0.3(CT)	1.1	1-1G1A	1SV308FCT-ND	.62	4.85	33.15	4,000	140.00/M
	30	0.1µA	0.7(CT)	0.6	1-1G1A	1SS381TL3FTCT-ND✔	.46	3.68	25.20	8,000	112.00/M
	34	10nA	1.03(C25V/C28V)§	0.55	1-1G1A	1SV283FCT-ND	.58	4.56	31.20	4,000	132.00/M
5	50	0.1µA	0.25(CT)	4	1-3J1A	1SV237TE85LFCT-ND✔	.66	5.28	39.60	3,000	186.00/M

✔ ***NEW!*** § Capacitance Ratio Minimum ◊ For Tape and Reel Part Number, change CT-ND to TR-ND.

Fig. 1

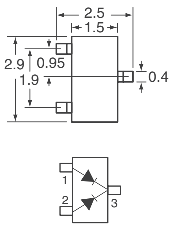

Fig. 2

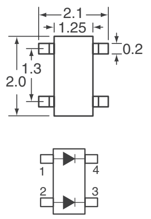

Fig. 3

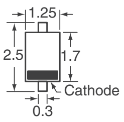

Fig. 4

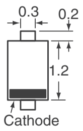

Fig. 5 ***NEW!***

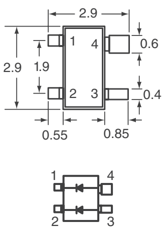

General Purpose and Schottky Diodes

Dimension in mm

Fig. 1

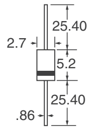

Fig. 2

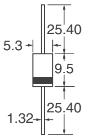

Fig. 3

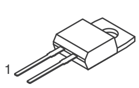

Fig. 4

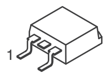

Fig. 5

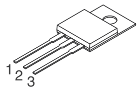

Fig. 6

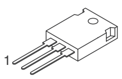

Fig. 7

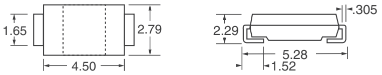

Fig. 8

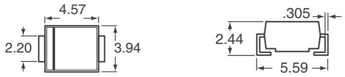

Fig. 9

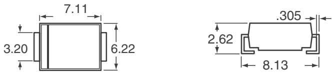

Fig. 10

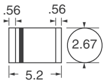

Fig. 11

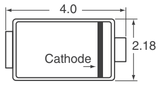

Fig. 12

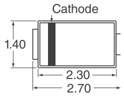

Fig. 13

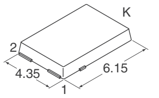

Fig. 14

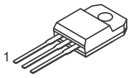

Fig. 15

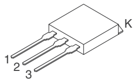

A.

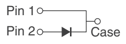

B.

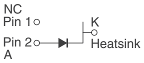

C.

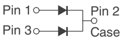

D.

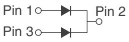

E.

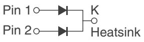

F.

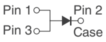

G.

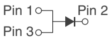

H.

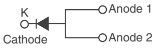

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
Silicon Diodes													
1	—	DO-41 (DO-204AL)	1.0	50	30	1.1	1N4001-E3/54GICT-ND	.47	3.08	13.39	1N4001-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	100	30	1.1	1N4002-E3/54GICT-ND	.47	3.08	13.39	1N4002-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	200	30	1.1	1N4003-E3/73GICT-ND	.48	3.17	13.80	1N4003-E3/73GITB-ND†	3,000	37.26/M
	—	DO-41 (DO-204AL)	1.0	200	30	1.1	1N4003-E3/54GICT-ND	.45	2.93	12.74	1N4003-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	400	30	1.1	1N4004-E3/73GI-ND†	.48	3.17	13.80	—	—	—
	—	DO-41 (DO-204AL)	1.0	400	30	1.1	1N4004-E3/54GICT-ND	.47	3.08	13.39	1N4004-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	600	30	1.1	1N4005-E3/54GICT-ND	.47	3.08	13.39	1N4005-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	800	30	1.1	1N4006-E3/54GICT-ND	.45	2.93	12.74	1N4006-E3/54GITR-ND	5,500	31.00/M
	—	DO-41 (DO-204AL)	1.0	1000	30	1.1	1N4007-E3/54GICT-ND	.47	3.08	13.39	1N4007-E3/54GITR-ND	5,500	31.47/M
2	—	DO-201AD	3.0	50	200	1.2	1N5400-E3/51GI-ND§	.69	5.33	41.15	—	—	—
	—	DO-201AD	3.0	100	200	1.2	1N5401-E3/54GICT-ND	.60	4.21	28.08	1N5401-E3/54GITR-ND	1,400	112.00/M
	—	DO-201AD	3.0	200	200	1.2	1N5402-E3/54GICT-ND	.57	4.01	26.73	1N5402-E3/54GITR-ND	1,400	112.00/M
	—	DO-201AD	3.0	200	200	1.2	1N5402-E3/51GI-ND§	.69	5.33	41.15	—	—	—
	—	DO-201AD	3.0	400	200	1.2	1N5404-E3/51GI-ND§	.69	5.33	41.15	—	—	—
	—	DO-201AD	3.0	600	200	1.2	1N5406-E3/54GICT-ND	.60	4.21	28.08	1N5406-E3/54GITR-ND	1,400	112.00/M
	—	DO-201AD	3.0	600	200	1.2	1N5406-E3/51GI-ND§	.69	5.33	41.15	—	—	—
	—	DO-201AD	3.0	800	200	1.2	1N5407-E3/54GICT-ND	.60	4.21	28.08	—	—	—
	—	DO-201AD	3.0	800	200	1.2	1N5407-E3/51GI-ND§	.69	5.33	41.15	—	—	—
	—	DO-201AD	3.0	1000	200	1.2	1N5408-E3/54GICT-ND	.60	4.21	28.08	—	—	—
	—	DO-201AD	3.0	1000	200	1.2	1N5408-E3/51GI-ND§	.69	5.33	41.15	—	—	—
Ultrafast Diodes													
2	—	DO-201AD	3.0	400	150	1.0	UF5404-E3/54GICT-ND	.75	5.99	44.91	UF5404-E3/54GITR-ND	1,400	231.00/M
3	A	TO-220AC	8.0	600	80	3.0	UH8JT-E3/45WGI-ND§	1.86	16.11	123.93	—	—	—
	A	TO-220AC	10	300	180	1.2	UH10FT-E3/4WGI-ND§	1.31	11.32	87.08	—	—	—
4	B	D2PAK (TO-263AB)	10	300	180	1.2	UHB10FT-E3/4WGI-ND§	1.41	12.24	94.13	—	—	—
	E	D2PAK (TO-263AB)	10	300	180	1.2	UHB20FCT-E3/4WGI-ND§	1.71	16.02	128.18	—	—	—
5	C	TO-220AB	10	300	180	1.2	UH20FCT-E3/4WGI-ND§	1.62	15.22	121.78	—	—	—
Schottky Diodes													
1	—	DO-41 (DO-204AL)	1.0	20	25	0.45	1N5817-E3/54GICT-ND	.58	4.12	24.69	1N5817-E3/54GITR-ND	5,500	74.00/M
	—	DO-41 (DO-204AL)	1.0	30	25	0.55	1N5818-E3/54GICT-ND	.58	4.12	24.69	1N5818-E3/54GITR-ND	5,500	74.00/M
	—	DO-41 (DO-204AL)	1.0	40	25	0.60	1N5819-E3/51GI-ND§	.50	3.82	25.96	—	—	—
	—	DO-41 (DO-204AL)	1.0	40	25	0.60	1N5819-E3/54GICT-ND	.58	4.12	24.69	1N5819-E3/54GITR-ND	5,500	74.00/M
	—	DO-41 (DO-204AL)	1.0	60	50	0.65	SB160-E3/51GI-ND§	.51	3.84	29.74	—	—	—
2	—	DO-201AD	3.0	20	80	0.475	1N5820-E3/54GICT-ND	.50	3.91	26.75	1N5820-E3/54GITR-ND	1,400	123.00/M
	—	DO-201AD	3.0	30	80	0.500	1N5821-E3/54GICT-ND	.74	5.40	39.28	1N5821-E3/54GITR-ND	1,400	123.00/M
	—	DO-201AD	3.0	40	80	0.525	1N5822-E3/51GI-ND§	.81	6.30	48.60	—	—	—
	—	DO-201AD	3.0	40	80	0.525	1N5822-E3/54GICT-ND	.50	3.91	26.75	1N5822-E3/54GITR-ND	1,400	123.00/M
	—	DO-201AD	3.0	90	100	0.80	SB3H90-E3/54GICT-ND	.65	4.88	38.31	SB3H90-E3/54GITR-ND	1,400	197.00/M
	—	DO-201AD	3.0	100	100	0.80	SB3H100-E3/54GICT-ND	.65	4.88	38.31	SB3H100-E3/54GITR-ND	1,400	197.00/M
	—	DO-201AD	5.0	20	220	0.48	SB520-E3/51GI-ND§	1.06	8.26	63.72	—	—	—
	—	DO-201AD	5.0	30	220	0.48	SB530-E3/54GICT-ND	.75	5.64	44.29	SB530-E3/54GITR-ND	1,400	228.00/M
	—	DO-201AD	5.0	30	220	0.48	SB530-E3/51GI-ND§	1.06	8.26	63.72	—	—	—
	—	DO-201AD	5.0	40	220	0.48	SB540-E3/54GICT-ND	.75	5.64	44.29	SB540-E3/54GITR-ND	1,400	228.00/M
	—	DO-201AD	5.0	40	220	0.48	SB540-E3/51GI-ND§	1.06	8.26	63.72	—	—	—
	—	DO-201AD	5.0	50	220	0.65	SB550-E3/54GICT-ND	.60	4.83	36.21	SB550-E3/54GITR-ND	1,400	187.00/M
	—	DO-201AD	5.0	60	220	0.65	SB560-E3/51GI-ND§	1.02	8.83	67.95	—	—	—
	—	DO-201AD	5.0	60	220	0.65	SB560-E3/54GICT-ND	.60	4.83	36.21	SB560-E3/54GITR-ND	1,400	187.00/M
4	E	D2PAK (TO-263AB)	20	100	250	0.73	VB40100C-E3/4WGI-ND§	2.96	27.78	222.24	—	—	—
5	C	TO-220AB	2 x 5A	150	160	0.96	MBR10H150CT-E3/45GI-ND§	1.74	15.08	115.98	—	—	—
	C	TO-220AB	2 x 10A	150	200	0.99	MBR20H150CT-E3/45GI-ND§	1.85	16.01	123.15	—	—	—
	C	TO-220AB	2 x 30A	100	350	1.0	MBR60100CT-E3/45GI-ND§	3.68	34.31	266.83	—	—	—
6	C	TO-247AD	20	100	300	0.73	V40100P-E3/45GI-ND§	2.98	27.77	216.03	—	—	—
	C	TO-247AD	25	100	350	0.78	V50100P-E3/45GI-ND§	2.98	27.77	216.03	—	—	—
Surface Mount Schottky Diodes													
7	—	SMA	1.0	20	40	0.50	SS12-E3/1TGI-ND§	.73	5.17	33.92	—	—	—
	—	SMA	1.0	20	40	0.50	SS12-E3/61TGICT-ND	.52	3.75	22.49	SS12-E3/61TGITR-ND	1,800	86.00/M
	—	SMA	1.0	40	40	0.50	SS14-E3/61TGICT-ND	.52	3.75	22.49	SS14-E3/61TGITR-ND	1,800	86.00/M
	—	SMA	1.0	60	40	0.75	SS16-E3/61TGICT-ND	.56	4.00	23.98	SS16-E3/61TGITR-ND	1,800	92.00/M
	—	SMA	1.0	60	40	0.75	SS16-E3/51TGI-ND§	.50	3.78	29.25	—	—	—
	—	SMA	1.0	100	50	0.77	SS1H10-E3/61TGICT-ND	.46	3.45	24.70	SS1H10-E3/61TGITR-ND	1,800	117.00/M
	—	SMA	1.5	30	50	0.445	SL13-E3/61TGICT-ND	.57	4.00	26.27	SL13-E3/61TGITR-ND	1,800	119.00/M
	—	SMA	2.0	30	60	0.45	SSA23L-E3/61TGICT-ND	.49	3.74	26.83	SSA23L-E3/61TGITR-ND	1,800	127.00/M

§ Bulk † Tape and Box

(Continued)

General Purpose and Schottky Diodes *(Cont.)*

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
7	—	SMA	2.0	40	60	0.49	SSA24-E3/61TGICT-ND	.48	3.62	25.95	SSA24-E3/61TGITR-ND	1,800	123.00/M
	—	SMA	3.0	30	75	0.45	SSA33L-E3/61TGICT-ND	.63	4.98	34.07	SSA33L-E3/61TGITR-ND	1,800	157.00/M
	—	SMA	3.0	40	75	0.49	SSA34-E3/61TGICT-ND	.62	4.66	33.44	SSA34-E3/61TGITR-ND	1,800	158.00/M
8	—	SMB	1.5	400	50	1.15	S2G-E3/1GI-ND§	.53	3.71	24.33	—	—	—
	—	SMB	1.5	20	100	0.44	SL22-E3/52TGICT-ND	.69	5.17	40.59	SL22-E3/52TGITR-ND	750	175.50
	—	SMB	2.0	30	100	0.44	SL23-E3/52TGICT-ND	.69	5.17	40.59	SL23-E3/52TGITR-ND	750	175.50
	—	SMB	2.0	20	75	0.5	SS22-E3/52TGICT-ND	.61	4.83	33.06	SS22-E3/52TGITR-ND	750	127.50
	—	SMB	2.0	40	75	0.5	SS24-E3/51TGI-ND§	.64	5.58	43.07	—	—	—
	—	SMB	2.0	40	75	0.5	SS24-E3/52TGICT-ND	.61	4.83	33.06	SS24-E3/52TGITR-ND	750	127.50
	—	SMB	2.0	60	75	0.7	SS26-E3/51TGI-ND§	.66	5.74	44.28	—	—	—
	—	SMB	2.0	60	75	0.7	SS26-E3/52TGICT-ND	.59	4.62	31.63	SS26-E3/52TGITR-ND	750	121.50
	—	SMB	2.0	100	75	0.79	SS2H10-E3/52TGICT-ND	.59	4.43	34.78	SS2H10-E3/52TGITR-ND	750	150.00
	—	SMB	4.0	30	100	0.45	SSB43L-E3/52TGICT-ND	.71	5.36	42.11	SSB43L-E3/52TGITR-ND	750	181.50
	—	SMB	4.0	40	100	0.49	SSB44-E3/52TGICT-ND	.65	5.12	35.05	SSB44-E3/52TGITR-ND	750	135.00
9	—	SMC	3.0	400	100	1.15	S3G-E3/51TGI-ND§	.68	5.92	45.68	—	—	—
	—	SMC	3.0	20	100	0.5	SS32-E3/57TGICT-ND	.62	4.94	37.07	SS32-E3/57TGITR-ND	850	181.05
	—	SMC	3.0	40	100	0.5	SS34-E3/57TGICT-ND	.62	4.94	37.07	SS34-E3/57TGITR-ND	850	181.05
	—	SMC	3.0	60	100	0.75	SS36-E3/57TGICT-ND	.63	5.05	37.88	SS36-E3/57TGITR-ND	850	185.30
	—	SMC	3.0	100	100	0.8	SS3H10-E3/57TGICT-ND	.65	5.16	38.71	SS3H10-E3/57TGITR-ND	850	189.55
	—	SMC	4.0	20	150	0.42	SL42-E3/57TGICT-ND	.76	6.84	54.35	SL42-E3/57TGITR-ND	850	297.50
	—	SMC	4.0	30	150	0.42	SL43-E3/57TGICT-ND	1.07	9.53	75.71	SL43-E3/57TGITR-ND	850	395.25
	—	SMC	4.0	40	150	0.44	SL44-E3/57TGICT-ND	.96	8.29	65.48	SL44-E3/57TGITR-ND	850	324.70
	—	SMC	5.0	30	175	0.45	SSC53L-E3/57TGICT-ND	.71	5.50	47.13	SSC53L-E3/57TGITR-ND	850	233.75
	—	SMC	5.0	40	175	0.49	SSC54-E3/57TGICT-ND	.67	5.81	45.87	SSC54-E3/57TGITR-ND	850	227.80
10	—	DO-213AB (MELF)	1.0	20	30	0.50	SGL41-20-E3/1GI-ND§	1.00	8.67	66.70	—	—	—
	—	DO-213AB (MELF)	1.0	20	30	0.50	SGL41-20-E3/96GICT-ND	.56	4.41	30.16	SGL41-20-E3/96GITR-ND	1,500	139.00/M
	—	DO-213AB (MELF)	1.0	40	30	0.50	SGL41-40-E3/1GI-ND§	1.49	11.21	86.71	—	—	—
	—	DO-213AB (MELF)	1.0	60	30	0.70	SGL41-60-E3/96GICT-ND	.58	4.55	31.13	SGL41-60-E3/96GITR-ND	1,500	144.00/M
11	—	SMP	1.0	30	50	0.45	SS1P3L-M3/84AGICT-ND	.50	3.91	26.75	SS1P3L-M3/84AGITR-ND	3,000	113.00/M
	—	SMP	2.0	20	50	0.55	SS2P2-M3/84AGICT-ND	.62	4.38	29.22	SS2P2-M3/84AGITR-ND	3,000	105.00/M
	—	SMP	2.0	20	50	0.50	SS2P2L-M3/84AGICT-ND	.58	4.38	31.39	SS2P2L-M3/84AGITR-ND	3,000	136.00/M
	—	SMP	2.0	30	50	0.55	SS2P3-M3/84AGICT-ND	.62	4.38	29.22	SS2P3-M3/84AGITR-ND	3,000	105.00/M
	—	SMP	2.0	30	50	0.50	SS2P3L-M3/84AGICT-ND	.58	4.38	31.39	SS2P3L-M3/84AGITR-ND	3,000	136.00/M
	—	SMP	2.0	40	50	0.55	SS2P4-M3/84AGICT-ND	.62	4.38	29.22	SS2P4-M3/84AGITR-ND	3,000	105.00/M
	—	SMP	3.0	30	50	0.58	SS3P3-M3/84AGICT-ND	.54	3.79	24.90	SS3P3-M3/84AGITR-ND	3,000	88.00/M
12	—	MicroSMP	1.0	20	25	0.50	MSS1P2L-M3/89AGICT-ND	.47	3.36	19.77	MSS1P2L-M3/89AGITR-ND	4,500	75.00/M
	—	MicroSMP	1.0	30	25	0.55	MSS1P3-M3/89AGICT-ND	.45	3.26	19.19	MSS1P3-M3/89AGITR-ND	4,500	72.00/M
	—	MicroSMP	1.0	30	25	0.50	MSS1P3L-M3/89AGICT-ND	.47	3.36	19.77	MSS1P3L-M3/89AGITR-ND	4,500	75.00/M
	—	MicroSMP	1.0	40	25	0.55	MSS1P4-M3/89AGICT-ND	.45	3.26	19.19	MSS1P4-M3/89AGITR-ND	4,500	72.00/M
	—	MicroSMP	1.0	50	25	0.68	MSS1P5-M3/89AGICT-ND	.45	3.26	19.19	MSS1P5-M3/89AGITR-ND	4,500	72.00/M
	—	MicroSMP	1.0	60	25	0.68	MSS1P6-M3/89AGICT-ND	.45	3.26	19.19	MSS1P6-M3/89AGITR-ND	4,500	72.00/M
	—	MicroSMP	1.0	20	30	0.40	MSS1P2U-M3/89ACT-ND ***NEW!***	.66	4.74	27.93	MSS1P2U-M3/89ATR-ND ***NEW!***	4,500	95.00/M
	—	MicroSMP	1.0	30	30	0.40	MSS1P3U-M3/89ACT-ND ***NEW!***	.66	4.74	27.93	MSS1P3U-M3/89ATR-ND ***NEW!***	4,500	95.00/M
Surface Mount Silicon Diodes													
7	—	SMA	1.0	400	40	1.1	S1G-E3/61TGICT-ND	.58	3.93	18.49	S1G-E3/61TGITR-ND	1,800	62.00/M
	—	SMA	1.0	600	40	1.1	S1J-E3/61TGICT-ND	.58	3.93	18.49	S1J-E3/61TGITR-ND	1,800	62.00/M
	—	SMA	1.0	1000	30	1.1	S1M-E3/61TGICT-ND	.58	3.93	18.49	S1M-E3/61TGITR-ND	1,800	62.00/M
8	—	SMB	1.5	200	50	1.15	S2D-E3/52TGICT-ND	.52	3.75	22.49	S2D-E3/52TGITR-ND	750	72.00
	—	SMB	1.5	400	50	1.15	S2G-E3/52TGICT-ND	.52	3.75	22.49	S2G-E3/52TGITR-ND	750	72.00
	—	SMB	1.5	600	50	1.15	S2J-E3/52TGICT-ND	.52	3.75	22.49	S2J-E3/52TGITR-ND	750	72.00
	—	SMB	1.5	1000	50	1.15	S2M-E3/52TGICT-ND	.52	3.75	22.49	S2M-E3/52TGITR-ND	750	72.00
9	—	SMC	3.0	200	100	1.15	S3D-E3/57TGICT-ND	.54	4.27	29.19	S3D-E3/57TGITR-ND	850	127.50
	—	SMC	3.0	400	100	1.15	S3G-E3/57TGICT-ND	.50	3.91	26.75	S3G-E3/57TGITR-ND	850	116.45
	—	SMC	3.0	600	100	1.15	S3J-E3/57TGICT-ND	.54	4.27	29.19	S3J-E3/57TGITR-ND	850	127.50
	—	SMC	3.0	1000	100	1.15	S3M-E3/57TGICT-ND	.54	4.27	29.19	S3M-E3/57TGITR-ND	850	127.50
	—	SMC	5.0	400	100	1.15	S5G-E3/57TGICT-ND	.41	3.30	24.75	S5G-E3/57TGITR-ND	850	161.50
	—	SMC	5.0	600	100	1.15	S5J-E3/57TGICT-ND	.41	3.30	24.75	S5J-E3/57TGITR-ND	850	121.55
	—	SMC	5.0	1000	100	1.15	S5M-E3/57TGICT-ND	.55	4.39	32.93	S5M-E3/57TGITR-ND	850	161.50
11	—	SMP	1.0	600	30	1.1	S1PJ-M3/84AGICT-ND	.39	2.79	16.43	S1PJ-M3/84AGITR-ND	3,000	62.00/M
	—	SMP	1.0	1000	30	1.1	S1PM-M3/84AGICT-ND	.39	2.79	16.43	S1PM-M3/84AGITR-ND	3,000	62.00/M
Surface Mount Ultrafast Diodes													
7	—	SMA	1.0	200	30	0.92	ES1D-E3/61TGICT-ND	.58	4.12	24.69	ES1D-E3/61TGITR-ND	1,800	95.00/M
	—	SMA	1.0	200	30	1.0	US1D-E3/61TGICT-ND	.57	4.03	26.84	US1D-E3/61TGITR-ND	1,800	107.00/M
	—	SMA	1.0	400	30	1.0	US1G-E3/61TGICT-ND	.57	4.03	26.84	US1G-E3/61TGITR-ND	1,800	107.00/M
	—	SMA	1.0	1000	30	1.7	US1M-E3/61TGICT-ND	.57	4.03	26.84	US1M-E3/61TGITR-ND	1,800	107.00/M
8	—	SMB	1.0	200	40	0.875	MURS120-E3/52TGICT-ND	.56	4.20	33.03	MURS120-E3/52TGITR-ND	750	142.50
	—	SMB	1.0	600	35	1.25	MURS160-E3/52TGICT-ND	.51	3.98	27.25	MURS160-E3/52TGITR-ND	750	105.00
	—	SMB	2.0	100	50	0.9	ES2B-E3/52TGICT-ND	.59	4.62	31.63	ES2B-E3/52TGITR-ND	750	121.50
	—	SMB	2.0	200	50	0.9	ES2D-E3/52TGICT-ND	.59	4.62	31.63	ES2D-E3/52TGITR-ND	750	121.50
	—	SMB	2.0	400	50	1.1	ES2G-E3/52TGICT-ND	.59	4.62	31.63	ES2G-E3/52TGITR-ND	750	121.50
9	—	SMC	3.0	100	100	0.9	ES3B-E3/57TGICT-ND	.65	5.21	39.10	ES3B-E3/57TGITR-ND	850	191.25
	—	SMC	3.0	200	100	0.9	ES3D-E3/57TGICT-ND	.65	5.21	39.10	ES3D-E3/57TGITR-ND	850	191.25
	—	SMC	3.0	400	100	1.1	ES3G-E3/57TGICT-ND	.65	5.21	39.10	ES3G-E3/57TGITR-ND	850	191.25
	—	SMC	3.0	200	125	0.875	MURS320-E3/57TGICT-ND	.87	6.80	58.32	MURS320-E3/57TGITR-ND	850	289.00
	—	SMC	3.0	400	125	1.25	MURS340-E3/57TGICT-ND	.80	6.22	53.31	MURS340-E3/57TGITR-ND	850	264.35
	—	SMC	3.0	600	125	1.25	MURS360-E3/57TGICT-ND	.80	6.22	53.31	MURS360-E3/57TGITR-ND	850	264.35
11	—	SMP	1.0	200	50	0.9	ESH1PD-M3/84AGICT-ND	.57	4.28	33.63	ESH1PD-M3/84AGITR-ND	3,000	158.00/M
	—	SMP	1.0	200	30	0.92	ES1PD-M3/84AGICT-ND	.54	4.06	31.88	ES1PD-M3/84AGITR-ND	3,000	150.00/M
Surface Mount Fast Switching Diodes													
7	—	SMA	1.0	200	30	1.3	RS1D-E3/61TGICT-ND	.47	3.37	20.22	RS1D-E3/61TGITR-ND	1,800	78.00/M
	—	SMA	1.0	600	30	1.3	RS1J-E3/61TGICT-ND	.47	3.37	20.22	RS1J-E3/61TGITR-ND	1,800	78.00/M
8	—	SMB	1.5	200	50	1.3	RS2D-E3/52TGICT-ND	.32	2.77	23.05	—	—	—
	—	SMB	1.5	400	50	1.3	RS2G-E3/52TGICT-ND	.52	3.87	30.43	RS2G-E3/52TGITR-ND	750	131.25
	—	SMB	1.5	600	50	1.3	RS2J-E3/52TGICT-ND	.52	3.87	30.43	RS2J-E3/52TGITR-ND	750	131.25
9	—	SMC	3.0	100	100	1.3	RS3B-E3/57TGICT-ND	.81	6.10	47.92	RS3B-E3/57TGITR-ND	850	234.60
	—	SMC	3.0	200	100	1.3	RS3D-E3/57TGICT-ND	.81	6.10	47.92	RS3D-E3/57TGITR-ND	850	234.60
	—	SMC	3.0	400	100	1.3	RS3G-E3/57TGICT-ND	.81	6.10	47.92	RS3G-E3/57TGITR-ND	850	234.60
	—	SMC	3.0	600	100	1.3	RS3J-E3/57TGICT-ND	.81	6.10	47.92	RS3J-E3/57TGITR-ND	850	234.60
High Current Density Surface Mount Schottky Barrier Rectifiers													
13	H	SMPC	10	40	280	0.56	SS10P4-M3/86AGICT-ND	.99	7.72	66.15	SS10P4-M3/86AGITR-ND	1,500	353.00/M
	H	SMPC	3.0	40	150	0.47	SS3P4L-M3/86AGICT-ND	.77	5.80	45.57	SS3P4L-M3/86AGITR-ND	1,500	235.00/M
	H	SMPC	3.0	60	150	0.60	SS3P6L-M3/86AGICT-ND	.77	5.80	45.57	SS3P6L-M3/86AGITR-ND	1,500	235.00/M
	H	SMPC	5.0	100	150	0.88	SS5P10-M3/86AGICT-ND	.79	5.91	46.40	SS5P10-M3/86AGITR-ND	1,500	239.00/M
	H	SMPC	5.0	30	150	0.52	SS5P3-M3/86AGICT-ND	.77	5.80	45.57	SS5P3-M3/86AGITR-ND	1,500	235.00/M
	H	SMPC	5.0	60	150	0.69	SS5P6-M3/86AGICT-ND	.77	5.80	45.57	SS5P6-M3/86AGITR-ND	1,500	235.00/M
	H	SMPC	8.0	20	150	0.57	SS8P2L-M3/86AGICT-ND	.83	6.20	48.71	SS8P2L-M3/86AGITR-ND	1,500	251.00/M
	H	SMPC	8.0	30	150	0.57	SS8P3L-M3/86AGICT-ND	.83	6.20	48.71	SS8P3L-M3/86AGITR-ND	1,500	251.00/M
	H	SMPC	8.0	100	150	0.90	SS8PH10-M3/86AGICT-ND	.83	6.20	48.71	SS8PH10-M3/86AGITR-ND	1,500	251.00/M

§ Bulk † Tape and Box

(Continued)

General Purpose and Schottky Diodes *(Cont.)*

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
High Current Density Surface Mount Trench MOS Barrier Schottky Rectifier													
13	H	SMPC	8.0	100	150	0.68	V8P10-M3/86AGICT-ND	.96	7.50	64.29	V8P10-M3/86AGITR-ND	1,500	343.00/M
	H	SMPC	10	100	180	0.68	V10P10-M3/86AGICT-ND	1.04	8.84	75.40	V10P10-M3/86AGITR-ND	1,500	390.00/M
	H	SMPC	12	100	200	0.70	V12P10-M3/86AGICT-ND	1.15	9.80	83.61	V12P10-M3/86AGITR-ND	1,500	432.00/M
High Voltage Trench MOS Barrier Schottky Rectifiers													
4	B	TO-263AB	30	100	250	0.85	VB30100S-E3/8WGICT-ND	2.05	18.04	153.10	VB30100S-E3/8WGITR-ND	800	688.80
	B	TO-263AB	20	100	250	0.85	VB20100S-E3/8WGICT-ND	1.82	15.50	132.18	VB20100S-E3/8WGITR-ND	800	605.60
5	F	TO-220AB	20	120	150	1.23	V20120SG-E3/4WGI-ND§	1.33	11.40	94.98	—	—	—
	F	TO-220AB	30	100	250	0.91	V30100S-E3/4WGI-ND§	1.85	16.05	123.45	—	—	—
14	G	ITO-220AB	30	100	250	0.91	VF30100S-E3/4WGI-ND§	1.64	15.34	122.74	—	—	—
	G	ITO-220AB	30	100	250	1.00	VF30100SG-E3/4WGI-ND§	1.65	14.30	109.98	—	—	—
15	G	TO-262AA	20	100	150	0.97	VI20100SG-E3/4WGI-ND§	1.28	10.94	91.13	—	—	—
	G	TO-262AA	20	120	200	1.12	VI20120S-E3/4WGI-ND§	1.51	13.07	100.58	—	—	—
	G	TO-262AA	30	100	250	0.85	VI30100S-E3/4WGI-ND§	1.74	16.33	130.66	—	—	—
	G	TO-262AA	30	100	250	0.97	VI30100SG-E3/4WGI-ND§	1.59	13.76	105.85	—	—	—
Dual High Voltage Trench MOS Barrier Schottky Rectifiers													
5	C	TO-220AB	30	100	320	0.79	V60100C-E3/4WGI-ND§	2.99	28.04	224.28	—	—	—
	C	TO-220AB	30	120	300	0.95	V60120C-E3/4WGI-ND§	2.90	27.16	217.30	—	—	—
6	C	TO-247AD	40	100	500	0.78	V80100P-E3/45GI-ND§	4.28	39.81	309.62	—	—	—
14	D	ITO-220AB	20	100	250	0.73	VF40100C-E3/4WGI-ND§	2.49	23.34	186.74	—	—	—
15	D	TO-262AA	20	100	250	0.73	VI40100C-E3/4WGI-ND§	2.98	27.97	223.73	—	—	—
	D	TO-262AA	20	100	200	0.81	VI40100G-E3/4WGI-ND§	2.26	21.19	169.49	—	—	—
	D	TO-262AA	20	120	250	0.88	VI40120C-E3/4WGI-ND§	2.83	26.53	212.23	—	—	—

§ Bulk † Tape and Box

Bridge Rectifiers

Fig. 1

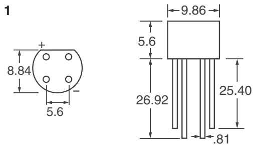

Fig. 2

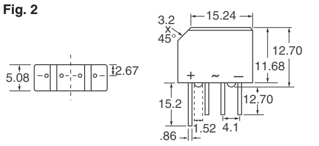

Fig. 3

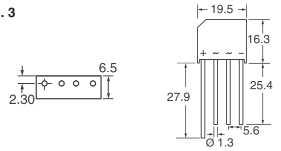

Fig. 4

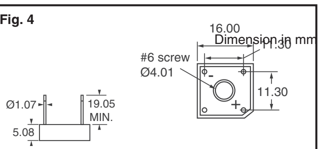

Fig. 5

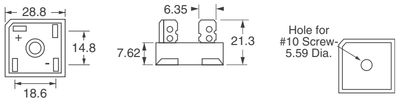

Fig. 6

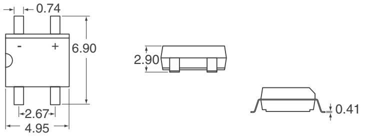

Fig. 7

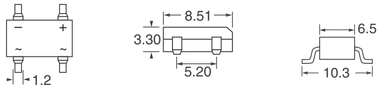

Fig.	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Pricing 1	10	100
Silicon and Glass Passivated Bridge Rectifiers									
1	W0G	1.5	50	50	1.0	W005G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	100	50	1.0	W01G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	100	50	1.0	W01G-E4/1GI-ND◆	.78	6.05	46.68
	W0G	1.5	200	50	1.0	W02G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	200	50	1.0	W02G-E4/1GI-ND◆	.53	4.44	33.31
	W0G	1.5	400	50	1.0	W04G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	600	50	1.0	W06G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	800	50	1.0	W08G-E4/51GI-ND◆	.53	4.44	33.31
	W0G	1.5	1000	50	1.0	W10G-E4/51GI-ND◆	.53	4.44	33.31
2	KBPM	2.0	50	60	1.1	2KBP005M-E4/51GI-ND◆	.88	6.87	52.97
	KBPM	2.0	100	60	1.1	2KBP01M-E4/51GI-ND◆	.88	6.87	52.97
	KBPM	2.0	200	60	1.1	2KBP02M-E4/51GI-ND◆	.88	6.87	52.97
	KBPM	2.0	400	60	1.1	2KBP04M-E4/51GI-ND◆	.88	6.87	52.97
	KBPM	2.0	600	60	1.1	2KBP06M-E4/51GI-ND◆	.88	6.87	52.97
	KBPM	2.0	1000	60	1.1	2KBP10M-E4/51GI-ND◆	.88	6.87	52.97
3	KBL	4.0	50	200	1.1	KBL005-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	100	200	1.1	KBL01-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	200	200	1.1	KBL02-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	400	200	1.1	KBL04-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	600	200	1.1	KBL06-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	800	200	1.1	KBL08-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	800	200	1.1	KBL08-E4/51GI-ND◆	.99	8.74	69.06
	KBL	4.0	1000	200	1.1	KBL10-E4/51GI-ND◆	.99	8.74	69.06
4	GBPC6	6.0	100	175	1.0	GBPC601-E4/51GI-ND◆	1.66	15.02	120.70
	GBPC6	6.0	200	175	1.0	GBPC602-E4/51GI-ND◆	1.66	15.02	120.70
	GBPC6	6.0	600	175	1.0	GBPC606-E4/51GI-ND◆	1.66	15.02	120.70

Fig.	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Pricing 1	10	100
4	GBPC6	6.0	800	175	1.0	GBPC608-E4/51GI-ND◆	1.66	15.02	120.70
	GBPC6	3.0	1000	175	1.0	GBPC610-E4/51GI-ND◆	1.66	15.02	120.70
5	GBPC	12	100	200	1.1	GBPC1201-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	12	400	200	1.1	GBPC1204-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	12	600	200	1.1	GBPC1206-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	12	1000	200	1.1	GBPC1210-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	25	100	300	1.1	GBPC2501-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	25	200	300	1.1	GBPC2502-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	25	400	300	1.1	GBPC2504-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	25	600	300	1.1	GBPC2506-E4/51GI-ND◆	2.96	26.72	214.72
	GBPC	25	50	400	1.1	GBPC35005-E4/1GI-ND◆	5.28	49.13	382.12
	GBPC	25	100	400	1.1	GBPC3501-E4/51GI-ND◆	3.06	27.35	224.26
	GBPC	25	200	400	1.1	GBPC3502-E4/51GI-ND◆	3.06	27.35	224.26
	GBPC	25	400	400	1.1	GBPC3504/1GI-ND	6.37	54.59	454.90
	GBPC	25	400	400	1.1	GBPC3504-E4/51GI-ND◆	3.06	27.35	224.26
	GBPC	25	600	400	1.1	GBPC3506-E4/51GI-ND◆	3.06	27.35	224.26
	GBPC	25	800	400	1.1	GBPC3508-E4/51GI-ND◆	3.06	27.35	224.26
	GBPC	25	1000	400	1.1	GBPC3510-E4/51GI-ND◆	3.06	27.35	224.26
6	TO-269AA	0.5	200	35	1.0	MB2S-E3/45GI-ND◆	.53	4.14	28.43
Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers — RoHS Compliant									
7	DFS	1.0	200	50	1.1	DF02S-E3/45GI-ND	.49	4.09	30.68
	DFS	1.0	400	50	1.1	DF04S-E3/45GI-ND	.49	4.09	30.68
	DFS	1.0	600	50	1.1	DF06S-E3/45GI-ND	.49	4.09	30.68

◆ *RoHS Compliant*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 1 — 1206-8

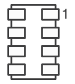

Fig. 2 — 1212-8

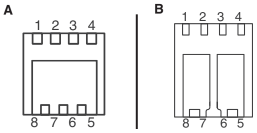

Fig. 3 — 4-MFP

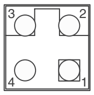

Fig. 4 — 6-MFP

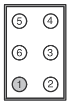

Fig. 5 — 10-MFP

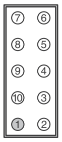

Fig. 6 — 10-PolarPAK

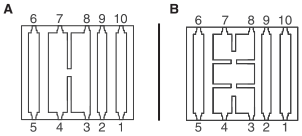

Fig. 7 — D2PAK

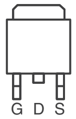

Fig. 8 — 8-PowerPAK / P-PAK

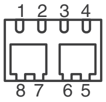

Fig. 9 — PowerPAK ChipFET

A – Single

B – Dual

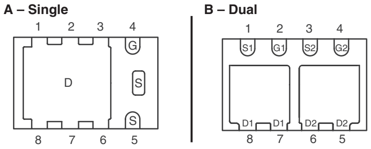

Fig. 10 – SC70-6/SC75-6

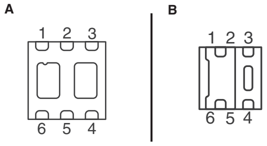

Fig. 11 — SC-75A/SC75-3/SC89-3/ SOT-23/SOT-323

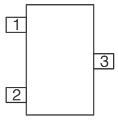

Fig. 12 — SC89-6/SOT-363

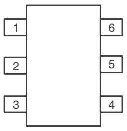

Fig. 13 — 6-TSOP

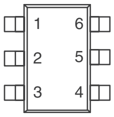

Fig. 14 — 8-TSSOP

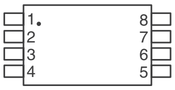

Fig. 15 — 8-SOIC

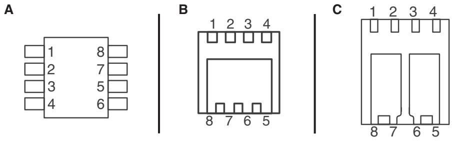

Fig. 16 — TO-252

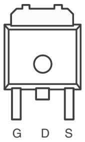

Fig. 17 — TO-220 *NEW!*

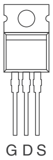

Fig. 18 — TO-247 *NEW!*

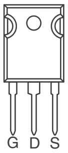

Fig. 19 — 14-SOIC

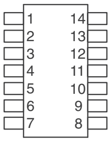

Fig. 20 — TO-92

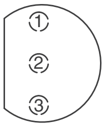

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Vishay Part No.
					N-Channel						
1	1206-8	12	6	0.020	SI5406CDC-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SI5406CDC-T1-GE3
	1206-8	12	6.9	0.017	SI5406DC-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI5406DC-T1-E3
	1206-8	20	4.4	0.032	SI5856DC-T1-E3CT-ND	1.16	.84	.79	—	—	SI5856DC-T1-E3
	1206-8	20	5.4	0.022	SI5404BDC-T1-E3CT-ND	1.14	.90	.81	3,000	420.00/M	SI5404BDC-T1-E3
	1206-8	20	6	0.020	SI5432DC-T1-GE3CT-ND	2.11	1.52	1.43	3,000	661.50/M	SI5432DC-T1-GE3
	1206-8	30	4.9	0.029	SI5402BDC-T1-E3CT-ND	1.14	.90	.81	3,000	420.00/M	SI5402BDC-T1-E3
	1206-8	30	6	0.020	SI5424DC-T1-E3CT-ND	1.46	1.06	.99	3,000	476.00/M	SI5424DC-T1-E3
2A	1212-8	12	35	0.0038	SI7102DN-T1-GE3CT-ND	2.56	1.77	1.68	3,000	793.00/M	SI7102DN-T1-GE3
	1212-8	20	12.5	0.0051	SI7106DN-T1-E3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7106DN-T1-E3
	1212-8	20	12.5	0.0051	SI7106DN-T1-GE3CT-ND	2.45	1.89	1.72	3,000	945.00/M	SI7106DN-T1-GE3
	1212-8	20	13.5	0.0044	SI7110DN-T1-E3CT-ND	2.87	2.22	2.01	3,000	1107.00/M	SI7110DN-T1-E3
	1212-8	20	13.5	0.0044	SI7110DN-T1-GE3CT-ND	2.45	1.89	1.72	3,000	945.00/M	SI7110DN-T1-GE3
	1212-8	20	14	0.0041	SI7108DN-T1-E3CT-ND	2.28	1.76	1.60	3,000	878.00/M	SI7108DN-T1-E3
	1212-8	20	14	0.0041	SI7108DN-T1-GE3CT-ND	2.38	1.84	1.67	3,000	918.00/M	SI7108DN-T1-GE3
	1212-8	20	35	0.0042	SIS426DN-T1-GE3CT-ND	1.89	1.37	1.28	3,000	594.00/M	SIS426DN-T1-GE3
	1212-8	30	6.5	0.015	SI7804DN-T1-E3CT-ND	2.69	1.86	1.76	—	—	SI7804DN-T1-E3
	1212-8	30	9	0.009	SI7806ADN-T1-E3CT-ND	1.60	1.26	1.14	3,000	588.00/M	SI7806ADN-T1-E3
	1212-8	30	11.3	0.006	SI7112DN-T1-E3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7112DN-T1-E3
	1212-8	30	11.3	0.006	SI7112DN-T1-GE3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7112DN-T1-GE3
	1212-8	30	11.7	0.0062	SI7114DN-T1-E3CT-ND	2.52	1.95	1.77	3,000	972.00/M	SI7114DN-T1-E3
	1212-8	30	11.7	0.0062	SI7114DN-T1-GE3CT-ND	2.66	2.06	1.87	3,000	1026.00/M	SI7114DN-T1-GE3
	1212-8	30	12	0.0125	SI7720DN-T1-GE3CT-ND	2.69	1.86	1.76	3,000	832.00/M	SI7720DN-T1-GE3
	1212-8	30	16	0.0135	SI7716ADN-T1-GE3CT-ND	1.52	1.20	1.08	3,000	560.00/M	SI7716ADN-T1-GE3
	1212-8	30	35	0.006	SIS402DN-T1-GE3CT-ND	2.56	1.77	1.68	3,000	793.00/M	SIS402DN-T1-GE3
	1212-8	30	35	0.006	SI7718DN-T1-GE3CT-ND	1.59	1.15	1.08	3,000	499.50/M	SI7718DN-T1-GE3
	1212-8	30	35	0.0066	SI7328DN-T1-GE3CT-ND	2.17	1.75	1.58	3,000	945.00/M	SI7328DN-T1-GE3
	1212-8	30	35	0.0095	SI7726DN-T1-GE3CT-ND	1.12	.81	.76	3,000	351.00/M	SI7726DN-T1-GE3
	1212-8	40	10.5	0.0065	SI7116DN-T1-E3CT-ND	2.52	1.95	1.77	3,000	972.00/M	SI7116DN-T1-E3
	1212-8	40	10.5	0.0065	SI7116DN-T1-GE3CT-ND	2.66	2.06	1.87	3,000	1026.00/M	SI7116DN-T1-GE3
	1212-8	60	5.6	0.021	SI7414DN-T1-E3CT-ND	2.28	1.76	1.60	3,000	878.00/M	SI7414DN-T1-E3
	1212-8	60	5.6	0.021	SI7414DN-T1-GE3CT-ND	2.28	1.76	1.60	3,000	878.00/M	SI7414DN-T1-GE3
	1212-8	60	6	0.046	SI7308DN-T1-E3CT-ND	1.46	1.06	.99	3,000	476.00/M	SI7308DN-T1-E3
	1212-8	60	6	0.046	SI7308DN-T1-GE3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI7308DN-T1-GE3
	1212-8	60	6.3	0.015	SI7120DN-T1-E3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7120DN-T1-E3
	1212-8	60	6.3	0.015	SI7120DN-T1-GE3CT-ND	2.45	1.89	1.72	3,000	945.00/M	SI7120DN-T1-GE3
	1212-8	100	3.4	0.052	SI7810DN-T1-E3CT-ND	1.79	1.38	1.25	3,000	689.00/M	SI7810DN-T1-E3
	1212-8	100	18	0.058	SI7322DN-T1-GE3CT-ND	1.88	1.49	1.34	3,000	693.00/M	SI7322DN-T1-GE3
	1212-8	150	2.2	0.112	SI7818DN-T1-E3CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI7818DN-T1-E3
	1212-8	150	2.2	0.112	SI7818DN-T1-GE3CT-ND	1.82	1.44	1.30	3,000	672.00/M	SI7818DN-T1-GE3
	1212-8	150	13	0.126	SI7620DN-T1-GE3CT-ND	2.31	1.60	1.52	3,000	715.00/M	SI7620DN-T1-GE3
	1212-8	200	1.7	0.200	SI7820DN-T1-E3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7820DN-T1-E3
	1212-8	200	1.7	0.200	SI7820DN-T1-GE3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7820DN-T1-GE3
	1212-8	250	1.24	0.360	SI7802DN-T1-E3CT-ND	3.68	2.73	2.63	3,000	1344.00/M	SI7802DN-T1-E3
	1212-8	250	1.95	0.435	SI7802DN-T1-GE3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7802DN-T1-GE3
3	4-MFP	8	12.2	0.025	SI8404DB-T1-E1CT-ND	1.16	.84	.79	3,000	364.50/M	SI8404DB-T1-E1
	4-MFP	8	12.2	0.025	SI8424DB-T1-E1CT-ND	1.29	.93	.87	3,000	405.00/M	SI8424DB-T1-E1
	4-MFP	20	5.3	0.031	SI8402DB-T1-E1CT-ND	1.98	1.43	1.34	3,000	621.00/M	SI8402DB-T1-E1
4	6-MFP	20	3.9	0.038	SI8902EDB-T2-E1CT-ND	2.39	1.66	1.57	—	—	SI8902EDB-T2-E1
	6-MFP	30	3.8	0.037	SI8904EDB-T2-E1CT-ND	2.10	1.45	1.38	3,000	650.00/M	SI8904EDB-T2-E1
5	10-MFP	20	5.4	0.020	SI8900EDB-T2-E1CT-ND	4.29	3.03	2.86	—	—	SI8900EDB-T2-E1
6A	10-PolarPAK	20	50	0.0029	SIE820DF-T1-E3CT-ND	4.45	3.14	2.97	—	—	SIE820DF-T1-E3
	10-PolarPAK	20	50	0.0028	SIE822DF-T1-E3CT-ND	3.99	2.76	2.62	—	—	SIE822DF-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
6A	10-PolarPAK	30	50	0.006	SIE800DF-T1-E3CT-ND	3.61	2.50	2.37	—	—	SIE800DF-T1-E3
	10-PolarPAK	40	50	0.0046	SIE832DF-T1-E3CT-ND	3.99	2.97	2.85	3,000	1459.20/M	SIE832DF-T1-E3
6B	10-PolarPAK	20	60	0.0011	SIE810DF-T1-E3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SIE810DF-T1-E3
	10-PolarPAK	20	60	0.0013	SIE808DF-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SIE808DF-T1-E3
	10-PolarPAK	30	60	0.0014	SIE806DF-T1-E3CT-ND	5.58	3.94	3.72	—	—	SIE806DF-T1-E3
	10-PolarPAK	30	60	0.0016	SIE802DF-T1-E3CT-ND	5.19	3.66	3.46	—	—	SIE802DF-T1-E3
	10-PolarPAK	40	60	0.0022	SIE812DF-T1-E3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SIE812DF-T1-E3
	10-PolarPAK	75	60	0.0078	SIE818DF-T1-E3CT-ND	5.58	3.94	3.72	—	—	SIE818DF-T1-E3
7	D2PAK	40	110	0.0019	SUM110N04-2M3L-E3CT-ND	8.00	5.64	5.33	—	—	SUM110N04-2M3L-E3
	D2PAK	40	110	0.0025	SUM110N04-03P-E3CT-ND	8.19	5.78	5.46	—	—	SUM110N04-03P-E3
	D2PAK	40	110	0.0028	SUM110N04-04-E3CT-ND	7.41	5.23	4.94	—	—	SUM110N04-04-E3
	D2PAK	40	110	0.0044	SUM110N04-05H-E3CT-ND	8.19	5.78	5.46	—	—	SUM110N04-05H-E3
	D2PAK	60	50	0.013	SUM50N06-16L-E3CT-ND	2.73	2.11	1.92	800	983.20	SUM50N06-16L-E3
	D2PAK	60	110	0.0028	SUM110N06-3M4L-E3CT-ND	6.00	4.90	4.40	800	2400.00	SUM110N06-3M4L-E3
	D2PAK	60	110	0.00325	SUM110N06-3M9H-E3CT-ND	7.80	5.50	5.20	800	2240.00	SUM110N06-3M9H-E3
	D2PAK	75	90	0.004	SUM90N08-4M8P-E3CT-ND	6.21	5.08	4.56	800	2484.00	SUM90N08-4M8P-E3
	D2PAK	100	47	0.019	SUM47N10-24L-E3CT-ND	4.16	2.88	2.73	—	—	SUM47N10-24L-E3
	D2PAK	100	60	0.013	SUM60N10-17-E3CT-ND	4.56	3.73	3.35	800	1824.00	SUM60N10-17-E3
	D2PAK	150	40	0.030	SUM40N15-38-E3CT-ND	3.72	3.04	2.73	800	1488.00	SUM40N15-38-E3
	D2PAK	200	9	0.216	SUM09N20-270-E3CT-ND	3.02	2.09	1.98	—	—	SUM09N20-270-E3
	D2PAK	200	27	0.064	SUM27N20-78-E3CT-ND	3.54	2.90	2.60	800	1416.00	SUM27N20-78-E3
	D2PAK	200	33	0.0485	SUM33N20-60P-E3CT-ND	4.84	3.41	3.23	—	—	SUM33N20-60P-E3
	D2PAK	200	65	0.023	SUM65N20-30-E3CT-ND	6.06	4.95	4.45	800	2424.00	SUM65N20-30-E3
	D2PAK	250	18	0.130	SUM18N25-165-E3CT-ND	3.15	2.58	2.31	800	1176.00	SUM18N25-165-E3
	D2PAK	250	45	0.047	SUM45N25-58-E3CT-ND	5.43	4.44	3.99	800	2172.00	SUM45N25-58-E3
8	8-PowerPAK	75	28	0.0091	SI7148DP-T1-E3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7148DP-T1-E3
9A	PowerPAK ChipFET	30	12	0.0145	SI5418DU-T1-GE3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI5418DU-T1-GE3
	PowerPAK ChipFET	40	12	0.018	SI5410DU-T1-GE3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5410DU-T1-GE3
10A	SC70-6	30	4.5	0.061	SIA814DJ-T1-GE3CT-ND	1.38	1.00	.93	3,000	432.00/M	SIA814DJ-T1-GE3
	SC75-6	20	1.5	0.225	SIB800EDK-T1-GE3CT-ND	.81	.59	.54	3,000	252.00/M	SIB800EDK-T1-GE3
10B	SC70-6	8	12	0.011	SIA414DJ-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA414DJ-T1-GE3
	SC70-6	20	4.5	0.0236	SIA426DJ-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA426DJ-T1-GE3
	SC70-6	20	12	0.0135	SIA430DJ-T1-GE3CT-ND	1.25	.90	.85	3,000	391.50/M	SIA430DJ-T1-GE3
	SC70-6	30	4.5	0.036	SIA408DJ-T1-GE3CT-ND	1.12	.81	.76	3,000	351.00/M	SIA408DJ-T1-GE3
	SC70-6	30	10.1	0.020	SIA432DJ-T1-GE3CT-ND	1.38	1.00	.93	3,000	432.00/M	SIA432DJ-T1-GE3
	SC70-6	200	2.6	1.38	SIA456DJ-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA456DJ-T1-GE3
	SC75-6	8	9	0.026	SIB414DK-T1-GE3CT-ND	1.04	.75	.69	3,000	322.00/M	SIB414DK-T1-GE3
	SC75-6	190	1.5	2.4	SIB452DK-T1-GE3CT-ND	.90	.65	.60	3,000	280.00/M	SIB452DK-T1-GE3
11	SC-75A	20	.140	5	SI1032R-T1-E3CT-ND	.52	.37	.32	3,000	147.00/M	SI1032R-T1-E3
	SC-75A	20	.140	5	SI1032R-T1-GE3CT-ND	.52	.37	.32	3,000	147.00/M	SI1032R-T1-GE3
	SC-75A	20	.500	0.41	SI1012R-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1012R-T1-E3
	SC-75A	20	.500	0.41	SI1012R-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI1012R-T1-GE3
	SC-75A	60	.330	1.25	SI1022R-T1-E3CT-ND	.72	.51	.43	3,000	202.00/M	SI1022R-T1-E3
	SC-75A	60	.330	1.25	SI1022R-T1-GE3CT-ND	.72	.51	.43	3,000	202.00/M	SI1022R-T1-GE3
	SC75-3	20	0.606	0.420	SI1046R-T1-GE3CT-ND	.67	.45	.40	3,000	180.00/M	SI1046R-T1-GE3
	SC89-3	20	.200	5	SI1032X-T1-E3CT-ND	.58	.41	.35	3,000	163.00/M	SI1032X-T1-E3
	SC89-3	20	.200	5	SI1032X-T1-GE3CT-ND	.55	.39	.33	3,000	155.00/M	SI1032X-T1-GE3
	SC89-3	20	0.606	0.420	SI1046X-T1-GE3CT-ND	.67	.45	.40	3,000	180.00/M	SI1046X-T1-GE3
	SOT23-3	20	0.42	0.47	TN0201K-T1-E3CT-ND	.77	.54	.47	3,000	217.00/M	TN0201K-T1-E3
	SOT23-3	20	0.73	0.2	TN0200K-T1-E3CT-ND	.55	.39	.33	3,000	155.00/M	TN0200K-T1-E3
	SOT23-3	20	2.1	0.045	SI2302ADS-T1-E3CT-ND	.80	.56	.48	3,000	225.00/M	SI2302ADS-T1-E3
	SOT23-3	20	2.9	0.057	SI2302CDS-T1-GE3CT-ND	.62	.41	.37	3,000	165.00/M	SI2302CDS-T1-GE3
	SOT23-3	20	3.77	0.027	SI2314EDS-T1-E3CT-ND	.92	.72	.63	3,000	305.00/M	SI2314EDS-T1-E3
	SOT23-3	20	3.9	0.025	SI2312BDS-T1-E3CT-ND	.70	.55	.48	3,000	232.00/M	SI2312BDS-T1-E3
	SOT23-3	20	3.9	0.025	SI2312BDS-T1-GE3CT-ND	.72	.51	.43	3,000	202.00/M	SI2312BDS-T1-GE3
	SOT23-3	30	2.6	0.055	SI2304BDS-T1-E3CT-ND	.77	.54	.47	3,000	217.00/M	SI2304BDS-T1-E3
	SOT23-3	30	2.6	0.055	SI2304BDS-T1-GE3CT-ND	.77	.54	.47	3,000	217.00/M	SI2304BDS-T1-GE3
	SOT23-3	30	2.9	0.042	SI2316DS-T1-E3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI2316DS-T1-E3
	SOT23-3	30	3.16	0.038	SI2306BDS-T1-E3CT-ND	.76	.50	.45	3,000	209.00/M	SI2306BDS-T1-E3
	SOT23-3	30	3.16	0.038	SI2306BDS-T1-GE3CT-ND	.72	.51	.43	3,000	202.00/M	SI2306BDS-T1-GE3
	SOT23-3	30	4.5	0.050	SI2316BDS-T1-GE3CT-ND	.66	.51	.45	3,000	218.00/M	SI2316BDS-T1-GE3
	SOT23-3	40	3.0	0.036	SI2318DS-T1-E3CT-ND	.64	.43	.38	3,000	178.00/M	SI2318DS-T1-E3
	SOT23-3	60	2.0	0.125	SI2308DS-T1-E3CT-ND	.88	.68	.60	3,000	290.00/M	SI2308DS-T1-E3
	SOT-23	60	2.3	0.156	SI2308BDS-T1-GE3CT-ND	.66	.47	.40	3,000	186.00/M	SI2308BDS-T1-GE3
	SOT23-3	60	.300	2	2N7002K-T1-E3CT-ND	.44	.29	.24	3,000	99.00/M	2N7002K-T1-E3
	SOT23-3	100	1.15	0.195	SI2328DS-T1-E3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI2328DS-T1-E3
	SOT23-3	240	0.2	2.2	TN2404K-T1-E3CT-ND	1.01	.79	.69	3,000	334.00/M	TN2404K-T1-E3
	SOT-323-3	20	0.4	0.65	SI1300BDL-T1-E3CT-ND	.58	.38	.32	3,000	132.00/M	SI1300BDL-T1-E3
	SOT-323-3	30	0.60	0.410	SI1302DL-T1-E3CT-ND	.52	.37	.32	3,000	147.00/M	SI1302DL-T1-E3
	SOT-323-3	30	0.90	0.216	SI1304BDL-T1-E3CT-ND	.52	.37	.32	3,000	147.00/M	SI1304BDL-T1-E3
	SOT-323-3	60	0.24	1.0	SI1330EDL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1330EDL-T1-E3
12	SC89-6	12	1.32	0.095	SI1054X-T1-GE3CT-ND	.73	.49	.43	3,000	195.00/M	SI1054X-T1-GE3
	SC70-6	8	6.04	0.039	SI1450DH-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI1450DH-T1-E3
	SC70-6	20	1.6	0.123	SI1400DL-T1-E3CT-ND	.74	.52	.45	3,000	209.00/M	SI1400DL-T1-E3
	SC70-6	20	6.1	0.041	SI1488DH-T1-E3CT-ND	.76	.50	.45	3,000	209.00/M	SI1488DH-T1-E3
	SC70-6	30	2.8	0.061	SI1426DH-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1426DH-T1-E3
	SC70-6	30	5.1	0.055	SI1470DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1470DH-T1-E3
	SC70-6	30	5.6	0.046	SI1472DH-T1-E3CT-ND	.68	.49	.45	—	—	SI1472DH-T1-E3
	SOT563F	20	.180	5	SI1034X-T1-E3CT-ND	.66	.47	.40	3,000	186.00/M	SI1034X-T1-E3
	SC89-6	20	.180	5	SI1034X-T1-GE3CT-ND	.55	.39	.33	3,000	155.00/M	SI1034X-T1-GE3
	SOT563F	20	1.32	0.074	SI1056X-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1056X-T1-E3
	SOT563F	20	1.3	0.076	SI1058X-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1058X-T1-E3
	SOT563F	30	1.2	0.082	SI1070X-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1070X-T1-E3
	SOT563F	30	1.3	0.077	SI1072X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1072X-T1-E3
	SOT563F	60	.305	1.40	SI1026X-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1026X-T1-E3
	SC89-6	60	.305	1.40	SI1026X-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI1026X-T1-GE3
13	6-TSOP	20	6	0.031	SI3446ADV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3446ADV-T1-E3
	6-TSOP	20	8	0.023	SI3460BDV-T1-E3CT-ND	1.01	.79	.69	3,000	334.00/M	SI3460BDV-T1-E3
	6-TSOP	20	2.0	0.100	SI3812DV-T1-E3CT-ND	1.04	.75	.69	—	—	SI3812DV-T1-E3
	6-TSOP	20	3.0	0.045	SI3442BDV-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI3442BDV-T1-E3
	6-TSOP	30	3.4	0.048	SI3454ADV-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI3454ADV-T1-E3
	6-TSOP	30	4.5	0.028	SI3456BDV-T1-E3CT-ND	.75	.58	.51	3,000	247.00/M	SI3456BDV-T1-E3
	6-TSOP	30	4.6	0.028	SI3434DV-T1-E3CT-ND	1.08	.84	.74	3,000	355.00/M	SI3434DV-T1-E3
	6-TSOP	30	5.0	0.023	SI3424DV-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI3424DV-T1-E3
	6-TSOP	60	3.2	0.085	SI3458DV-T1-E3CT-ND	2.11	1.52	1.43	3,000	661.50/M	SI3458DV-T1-E3
	6-TSOP	100	1.8	0.148	SI3430DV-T1-E3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI3430DV-T1-E3
	6-TSOP	150	1.2	0.310	SI3440DV-T1-E3CT-ND	1.67	1.32	1.19	3,000	616.00/M	SI3440DV-T1-E3
14	8-TSSOP	30	7.8	0.011	SI6410DQ-T1-E3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI6410DQ-T1-E3
	8-TSSOP	30	7.8	0.011	SI6410DQ-T1-GE3CT-ND	2.14	1.65	1.50	3,000	824.00/M	SI6410DQ-T1-GE3
15A	8-SOIC	12	21.5	0.0053	SI4866BDY-T1-GE3CT-ND	1.82	1.44	1.30	2,500	672.00/M	SI4866BDY-T1-GE3
	8-SOIC	12	17	0.0024	SI4838DY-T1-E3CT-ND	3.36	2.75	2.47	2,500	1490.00/M	SI4838DY-T1-E3
	8-SOIC	12	50	0.0017	SI4448DY-T1-E3CT-ND	4.45	3.14	2.97	2,500	1459.20/M	SI4448DY-T1-E3
	8-SOIC	20	9.5	0.0055	SI4466DY-T1-E3CT-ND	3.15	2.43	2.21	2,500	1215.00/M	SI4466DY-T1-E3
	8-SOIC	20	14	0.0035	SI4408DY-T1-E3CT-ND	3.60	2.94	2.64	2,500	1596.00/M	SI4408DY-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
15A	8-SOIC	20	14	0.0037	SI4876DY-T1-E3CT-ND	4.10	2.89	2.73	—	—	SI4876DY-T1-E3
	8-SOIC	20	19	0.0022	SI4378DY-T1-E3CT-ND	3.15	2.58	2.31	2,500	1397.00/M	SI4378DY-T1-E3
	8-SOIC	20	19	0.0022	SI4378DY-T1-GE3CT-ND	3.15	2.58	2.31	2,500	1397.00/M	SI4378DY-T1-GE3
	8-SOIC	20	20	0.006	SI4114DY-T1-GE3CT-ND	1.93	1.49	1.35	2,500	743.00/M	SI4114DY-T1-GE3
	8-SOIC	25	16.2	0.0105	SI4668DY-T1-GE3CT-ND	1.46	1.06	.99	2,500	459.00/M	SI4668DY-T1-GE3
	8-SOIC	25	18	0.0086	SI4116DY-T1-GE3CT-ND	1.37	1.08	.98	2,500	504.00/M	SI4116DY-T1-GE3
	8-SOIC	25	23.1	0.0058	SI4660DY-T1-GE3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4660DY-T1-GE3
	8-SOIC	25	40	0.0022	SI4630DY-T1-E3CT-ND	3.01	2.33	2.11	2,500	1161.00/M	SI4630DY-T1-E3
	8-SOIC	25	27	0.0022	SI4630DY-T1-GE3CT-ND	2.99	2.31	2.10	2,500	1154.00/M	SI4630DY-T1-GE3
	8-SOIC	25	40	0.0022	SI4632DY-T1-E3CT-ND	3.61	2.50	2.37	—	—	SI4632DY-T1-E3
	8-SOIC	30	5.9	0.019	SI4346DY-T1-E3CT-ND	1.03	.81	.73	2,500	378.00/M	SI4346DY-T1-E3
	8-SOIC	30	6.5	0.0155	SI4800BDY-T1-E3CT-ND	.95	.75	.68	2,500	350.00/M	SI4800BDY-T1-E3
	8-SOIC	30	6.5	0.0155	SI4800BDY-T1-GE3CT-ND	.95	.75	.68	2,500	350.00/M	SI4800BDY-T1-GE3
	8-SOIC	30	7.3	0.013	SI4812BDY-T1-E3CT-ND	1.55	1.12	1.05	2,500	486.00/M	SI4812BDY-T1-E3
	8-SOIC	30	8.0	0.0105	SI4348DY-T1-E3CT-ND	2.86	1.98	1.87	—	—	SI4348DY-T1-E3
	8-SOIC	30	8.9	0.009	SI4894BDY-T1-E3CT-ND	1.63	1.18	1.11	2,500	532.00/M	SI4894BDY-T1-E3
	8-SOIC	30	8.9	0.009	SI4894BDY-T1-GE3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4894BDY-T1-GE3
	8-SOIC	30	9.5	0.007	SI4420BDY-T1-E3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4420BDY-T1-E3
	8-SOIC	30	9.5	0.007	SI4420BDY-T1-GE3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4420BDY-T1-GE3
	8-SOIC	30	10	0.007	SI4384DY-T1-E3CT-ND	1.82	1.44	1.30	2,500	672.00/M	SI4384DY-T1-E3
	8-SOIC	30	11	0.0058	SI4386DY-T1-E3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4386DY-T1-E3
	8-SOIC	30	11	0.0058	SI4386DY-T1-GE3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4386DY-T1-GE3
	8-SOIC	30	11	0.0098	SI4890DY-T1-E3CT-ND	3.99	2.76	2.62	2,500	1235.00/M	SI4890DY-T1-E3
	8-SOIC	30	12	0.011	SI4688DY-T1-GE3CT-ND	1.94	1.40	1.31	2,500	607.50/M	SI4688DY-T1-GE3
	8-SOIC	30	12	0.0057	SI4874BDY-T1-E3CT-ND	2.35	1.81	1.65	2,500	905.00/M	SI4874BDY-T1-E3
	8-SOIC	30	14	0.0037	SI4430BDY-T1-E3CT-ND	2.59	2.00	1.82	2,500	999.00/M	SI4430BDY-T1-E3
	8-SOIC	30	14	0.0037	SI4430BDY-T1-GE3CT-ND	2.28	1.76	1.60	2,500	878.00/M	SI4430BDY-T1-GE3
	8-SOIC	30	16	0.012	SI4890BDY-T1-GE3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4890BDY-T1-GE3
	8-SOIC	30	16	0.0095	SI4396DY-T1-E3CT-ND	1.81	1.31	1.22	2,500	567.00/M	SI4396DY-T1-E3
	8-SOIC	30	17	0.0026	SI4368DY-T1-E3CT-ND	4.52	3.19	3.02	—	—	SI4368DY-T1-E3
	8-SOIC	30	18	0.007	SI4322DY-T1-E3CT-ND	2.27	1.57	1.49	—	—	SI4322DY-T1-E3
	8-SOIC	30	18.2	0.0078	SI4686DY-T1-E3CT-ND	1.71	1.35	1.22	2,500	630.00/M	SI4686DY-T1-E3
	8-SOIC	30	18.2	0.0078	SI4686DY-T1-GE3CT-ND	1.71	1.35	1.22	2,500	630.00/M	SI4686DY-T1-GE3
	8-SOIC	30	24.5	0.0052	SI4634DY-T1-GE3CT-ND	1.77	1.43	1.29	2,500	770.00/M	SI4634DY-T1-GE3
	8-SOIC	30	28	0.0042	SI4842BDY-T1-GE3CT-ND	2.80	2.16	1.96	2,500	1080.00/M	SI4842BDY-T1-GE3
	8-SOIC	30	30	0.0032	SI4164DY-T1-GE3CT-ND	1.79	1.41	1.27	2,500	658.00/M	SI4164DY-T1-GE3
	8-SOIC	30	30	0.0035	SI4170DY-T1-GE3CT-ND	2.35	1.81	1.65	2,500	905.00/M	SI4170DY-T1-GE3
	8-SOIC	30	39	0.00275	SI4126DY-T1-GE3CT-ND	3.36	2.32	2.20	2,500	1040.00/M	SI4126DY-T1-GE3
	8-SOIC	40	3.9	0.033	SI4446DY-T1-E3CT-ND	.84	.65	.57	2,500	276.00/M	SI4446DY-T1-E3
	8-SOIC	40	10	0.0075	SI4840DY-T1-E3CT-ND	2.59	2.00	1.82	2,500	999.00/M	SI4840DY-T1-E3
	8-SOIC	40	27.2	0.0045	SI4122DY-T1-GE3CT-ND	2.80	2.16	1.96	2,500	1080.00/M	SI4122DY-T1-GE3
	8-SOIC	40	33	0.0031	SI4456DY-T1-E3CT-ND	3.15	2.43	2.21	2,500	1215.00/M	SI4456DY-T1-E3
	8-SOIC	60	6.0	0.018	SI4850EY-T1-E3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4850EY-T1-E3
	8-SOIC	60	8	0.030	SI4436DY-T1-E3CT-ND	1.16	.84	.79	2,500	378.00/M	SI4436DY-T1-E3
	8-SOIC	60	8	0.030	SI4436DY-T1-GE3CT-ND	1.03	.81	.73	2,500	378.00/M	SI4436DY-T1-GE3
	8-SOIC	60	9.0	0.009	SI4470EY-T1-E3CT-ND	3.15	2.43	2.21	2,500	1215.00/M	SI4470EY-T1-E3
	8-SOIC	75	20.5	0.0098	SI4108DY-T1-GE3CT-ND	4.10	2.89	2.73	2,500	1344.00/M	SI4108DY-T1-GE3
	8-SOIC	80	6.0	0.026	SI4480DY-T1-E3CT-ND	2.66	2.06	1.87	2,500	1026.00/M	SI4480DY-T1-E3
	8-SOIC	80	6.7	0.0135	SI4896DY-T1-E3CT-ND	3.19	2.46	2.23	2,500	1229.00/M	SI4896DY-T1-E3
	8-SOIC	80	17.3	0.013	SI4110DY-T1-GE3CT-ND	2.14	1.65	1.50	2,500	824.00/M	SI4110DY-T1-GE3
	8-SOIC	100	4.8	0.028	SI4484EY-T1-E3CT-ND	2.38	1.84	1.67	2,500	918.00/M	SI4484EY-T1-E3
	8-SOIC	100	5.4	0.021	SI4486EY-T1-E3CT-ND	2.91	2.25	2.04	2,500	1121.00/M	SI4486EY-T1-E3
	8-SOIC	150	2.7	0.068	SI4848DY-T1-E3CT-ND	1.79	1.41	1.27	2,500	658.00/M	SI4848DY-T1-E3
	8-SOIC	150	3.5	0.041	SI4488DY-T1-E3CT-ND	2.98	2.30	2.09	2,500	1148.00/M	SI4488DY-T1-E3
	8-SOIC	150	7.7	0.036	SI4472DY-T1-E3CT-ND	3.72	3.04	2.73	2,500	1649.00/M	SI4472DY-T1-E3
	8-SOIC	200	1.15	0.39	SI4462DY-T1-E3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4462DY-T1-E3
	8-SOIC	200	1.7	0.195	SI4464DY-T1-E3CT-ND	1.79	1.38	1.25	2,500	689.00/M	SI4464DY-T1-E3
	8-SOIC	200	2.3	0.110	SI4418DY-T1-E3CT-ND	2.66	2.06	1.87	2,500	1026.00/M	SI4418DY-T1-E3
	8-SOIC	200	2.85	0.065	SI4490DY-T1-E3CT-ND	3.19	2.46	2.23	2,500	1229.00/M	SI4490DY-T1-E3
15B	8-SOIC	12	20	0.0020	SI7858ADP-T1-E3CT-ND	4.11	3.36	3.02	3,000	1822.00/M	SI7858ADP-T1-E3
	8-SOIC	12	20	0.0020	SI7858ADP-T1-GE3CT-ND	4.32	3.53	3.17	3,000	1915.00/M	SI7858ADP-T1-GE3
	8-SOIC	12	22	0.0055	SI7882DP-T1-GE3CT-ND	2.80	2.16	1.96	3,000	1080.00/M	SI7882DP-T1-GE3
	8-SOIC	12	40	0.0038	SIR492DP-T1-GE3CT-ND	2.06	1.49	1.40	3,000	648.00/M	SIR492DP-T1-GE3
	8-SOIC	20	13	0.0045	SI7366DP-T1-GE3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7366DP-T1-GE3
	8-SOIC	20	13.4	0.0054	SI7448DP-T1-E3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI7448DP-T1-E3
	8-SOIC	20	30	0.0026	SI7136DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7136DP-T1-E3
	8-SOIC	20	35	0.0042	SIR496DP-T1-GE3CT-ND	1.51	1.09	1.02	3,000	472.50/M	SIR496DP-T1-GE3
	8-SOIC	20	40	0.0019	SI7866ADP-T1-E3CT-ND	4.29	3.51	3.15	3,000	1902.00/M	SI7866ADP-T1-E3
	8-SOIC	20	50	0.0029	SIR890DP-T1-GE3CT-ND	3.82	2.64	2.51	3,000	1183.00/M	SIR890DP-T1-GE3
	8-SOIC	20	60	0.00155	SIR440DP-T1-GE3CT-ND	2.73	1.89	1.79	3,000	845.00/M	SIR440DP-T1-GE3
	8-SOIC	20	60	0.0019	SIR866DP-T1-GE3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SIR866DP-T1-GE3
	8-SOIC	25	30	0.007	SIR850DP-T1-GE3CT-ND	1.38	1.00	.93	3,000	432.00/M	SIR850DP-T1-GE3
	8-SOIC	25	40	0.00325	SIR888DP-T1-GE3CT-ND	5.07	3.58	3.38	3,000	1664.00/M	SIR888DP-T1-GE3
	8-SOIC	25	50	0.0032	SIR892DP-T1-GE3CT-ND	3.82	2.64	2.51	3,000	1183.00/M	SIR892DP-T1-GE3
	8-SOIC	25	60	0.0017	SIR476DP-T1-GE3CT-ND	2.69	1.86	1.76	3,000	832.00/M	SIR476DP-T1-GE3
	8-SOIC	25	60	0.002	SI7194DP-T1-GE3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7194DP-T1-GE3
	8-SOIC	30	11	0.007	SI7384DP-T1-E3CT-ND	3.15	2.18	2.07	—	—	SI7384DP-T1-E3
	8-SOIC	30	12	0.0058	SI7386DP-T1-E3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7386DP-T1-E3
	8-SOIC	30	12	0.0058	SI7386DP-T1-GE3CT-ND	2.10	1.62	1.47	3,000	810.00/M	SI7386DP-T1-GE3
	8-SOIC	30	14	0.0037	SI7382DP-T1-E3CT-ND	3.02	2.09	1.98	3,000	972.00/M	SI7382DP-T1-E3
	8-SOIC	30	15	0.0034	SI7892BDP-T1-E3CT-ND	3.21	2.63	2.36	3,000	1423.00/M	SI7892BDP-T1-E3
	8-SOIC	30	15	0.0034	SI7892BDP-T1-GE3CT-ND	3.36	2.75	2.47	3,000	1490.00/M	SI7892BDP-T1-GE3
	8-SOIC	30	16	0.011	SI7196DP-T1-GE3CT-ND	1.47	1.18	1.03	3,000	588.00/M	SI7196DP-T1-GE3
	8-SOIC	30	17	0.0033	SI7636DP-T1-E3CT-ND	2.94	2.27	2.06	3,000	1134.00/M	SI7636DP-T1-E3
	8-SOIC	30	20	0.0087	SI7160DP-T1-GE3CT-ND	1.77	1.43	1.29	3,000	770.00/M	SI7160DP-T1-GE3
	8-SOIC	30	20	0.012	SIR472DP-T1-GE3CT-ND	.90	.65	.60	3,000	280.00/M	SIR472DP-T1-GE3
	8-SOIC	30	24	0.0046	SI7374DP-T1-E3CT-ND	3.99	2.97	2.85	—	—	SI7374DP-T1-E3
	8-SOIC	30	30	0.0024	SI7336ADP-T1-E3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7336ADP-T1-E3
	8-SOIC	30	30	0.0079	SIR462DP-T1-GE3CT-ND	1.46	1.06	.99	3,000	459.00/M	SIR462DP-T1-GE3
	8-SOIC	30	35	0.006	SI7784DP-T1-GE3CT-ND	1.71	1.38	1.24	3,000	743.00/M	SI7784DP-T1-GE3
	8-SOIC	30	35	0.006	SIR402DP-T1-GE3CT-ND	2.56	1.77	1.68	3,000	793.00/M	SIR402DP-T1-GE3
	8-SOIC	30	40	0.0034	SI7170DP-T1-GE3CT-ND	2.29	1.85	1.67	3,000	999.00/M	SI7170DP-T1-GE3
	8-SOIC	30	40	0.0035	SIR466DP-T1-GE3CT-ND	1.46	1.06	.99	3,000	459.00/M	SIR466DP-T1-GE3
	8-SOIC	30	40	0.0054	SI7634BDP-T1-GE3CT-ND	2.38	1.84	1.67	3,000	918.00/M	SI7634BDP-T1-GE3
	8-SOIC	30	40	0.0057	SIR468DP-T1-GE3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SIR468DP-T1-GE3
	8-SOIC	30	50	0.0031	SI7788DP-T1-GE3CT-ND	3.91	2.70	2.56	3,000	1209.00/M	SI7788DP-T1-GE3
	8-SOIC	30	50	0.0031	SIR464DP-T1-GE3CT-ND	1.76	1.28	1.19	3,000	553.50/M	SIR464DP-T1-GE3
	8-SOIC	30	50	0.0048	SI7748DP-T1-GE3CT-ND	2.27	1.57	1.49	3,000	702.00/M	SI7748DP-T1-GE3
	8-SOIC	30	60	0.0019	SI7192DP-T1-GE3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7192DP-T1-GE3
	8-SOIC	30	60	0.0022	SI7658ADP-T1-GE3CT-ND	4.10	2.89	2.73	3,000	1344.00/M	SI7658ADP-T1-GE3
	8-SOIC	30	60	0.0029	SI7758DP-T1-GE3CT-ND	2.24	1.73	1.57	3,000	864.00/M	SI7758DP-T1-GE3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
15B	8-SOIC	30	60	0.0035	SI7742DP-T1-GE3CT-ND	2.14	1.65	1.50	3,000	824.00/M	SI7742DP-T1-GE3
	8-SOIC	40	15	0.0042	SI7476DP-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7476DP-T1-E3
	8-SOIC	40	47	0.009	SI7848BDP-T1-GE3CT-ND	3.00	2.45	2.20	3,000	1330.00/M	SI7848BDP-T1-GE3
	8-SOIC	40	50	0.0045	SI7790DP-T1-GE3CT-ND	4.16	2.88	2.73	3,000	1287.00/M	SI7790DP-T1-GE3
	8-SOIC	40	58	0.0075	SI7884BDP-T1-GE3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7884BDP-T1-GE3
	8-SOIC	40	60	0.0023	SIR470DP-T1-GE3CT-ND	3.82	2.64	2.51	3,000	1183.00/M	SIR470DP-T1-GE3
	8-SOIC	60	6.2	0.018	SI7850DP-T1-E3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7850DP-T1-E3
	8-SOIC	60	9.6	0.009	SI7370DP-T1-E3CT-ND	3.47	2.68	2.43	3,000	1337.00/M	SI7370DP-T1-E3
	8-SOIC	60	15	0.006	SI7478DP-T1-E3CT-ND	3.42	2.80	2.51	3,000	1516.00/M	SI7478DP-T1-E3
	8-SOIC	60	15	0.006	SI7478DP-T1-GE3CT-ND	3.42	2.80	2.51	3,000	1516.00/M	SI7478DP-T1-GE3
	8-SOIC	60	18	0.0096	SI7460DP-T1-GE3CT-ND	3.47	2.68	2.43	3,000	1337.00/M	SI7460DP-T1-GE3
	8-SOIC	60	30	0.0065	SI7138DP-T1-E3CT-ND	3.42	2.80	2.51	3,000	1516.00/M	SI7138DP-T1-E3
	8-SOIC	60	60	0.00625	SI7164DP-T1-GE3CT-ND	3.54	2.90	2.60	3,000	1569.00/M	SI7164DP-T1-GE3
	8-SOIC	75	60	0.007	SI7174DP-T1-GE3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7174DP-T1-GE3
	8-SOIC	80	7.6	0.0135	SI7852DP-T1-E3CT-ND	3.18	2.60	2.34	3,000	1410.00/M	SI7852DP-T1-E3
	8-SOIC	80	30	0.017	SI7852ADP-T1-GE3CT-ND	3.00	2.45	2.20	3,000	1330.00/M	SI7852ADP-T1-GE3
	8-SOIC	80	32	0.0125	SI7186DP-T1-GE3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SI7186DP-T1-GE3
	8-SOIC	100	5.0	0.028	SI7454DP-T1-E3CT-ND	2.66	2.06	1.87	3,000	1026.00/M	SI7454DP-T1-E3
	8-SOIC	100	5.7	0.021	SI7456DP-T1-E3CT-ND	3.19	2.46	2.23	3,000	1229.00/M	SI7456DP-T1-E3
	8-SOIC	100	5.7	0.021	SI7456DP-T1-GE3CT-ND	3.20	2.48	2.25	3,000	1235.00/M	SI7456DP-T1-GE3
	8-SOIC	100	60	0.014	SI7178DP-T1-GE3CT-ND	3.42	2.80	2.51	3,000	1516.00/M	SI7178DP-T1-GE3
	8-SOIC	150	3.0	0.068	SI7898DP-T1-E3CT-ND	2.07	1.60	1.45	3,000	797.00/M	SI7898DP-T1-E3
	8-SOIC	150	3.0	0.068	SI7898DP-T1-GE3CT-ND	2.07	1.60	1.45	3,000	797.00/M	SI7898DP-T1-GE3
	8-SOIC	150	24.5	0.041	SI7846DP-T1-E3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI7846DP-T1-E3
	8-SOIC	150	26	0.036	SI7430DP-T1-E3CT-ND	4.32	3.53	3.17	3,000	1915.00/M	SI7430DP-T1-E3
	8-SOIC	150	26	0.036	SI7430DP-T1-GE3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7430DP-T1-GE3
	8-SOIC	150	30	0.038	SI7738DP-T1-GE3CT-ND	3.42	2.80	2.51	3,000	1516.00/M	SI7738DP-T1-GE3
	8-SOIC	200	3.2	0.065	SI7450DP-T1-E3CT-ND	3.40	2.62	2.38	3,000	1310.00/M	SI7450DP-T1-E3
	8-SOIC	200	3.2	0.065	SI7450DP-T1-GE3CT-ND	3.40	2.62	2.38	3,000	1310.00/M	SI7450DP-T1-GE3
	8-SOIC	200	25	0.070	SI7172DP-T1-GE3CT-ND	3.82	2.64	2.51	3,000	1183.00/M	SI7172DP-T1-GE3
	8-SOIC	250	2.3	0.129	SI7434DP-T1-E3CT-ND	3.72	3.04	2.73	3,000	1649.00/M	SI7434DP-T1-E3
	8-SOIC	250	2.3	0.129	SI7434DP-T1-GE3CT-ND	3.72	3.04	2.73	3,000	1649.00/M	SI7434DP-T1-GE3
16	TO-252	40	50	0.0088	SUD50N04-8M8P-4GE3CT-ND	1.82	1.44	1.30	2,500	672.00/M	SUD50N04-8M8P-4GE3
	TO-252	60	9.1	0.031	SUD23N06-31-GE3CT-ND	1.06	.84	.76	2,000	392.00/M	SUD23N06-31-GE3
17	TO-220	500	18	0.270	SIHF18N50C-E3-ND ***NEW!***	2.87	2.32	2.09	—	—	SIHF18N50C-E3
	TO-220	500	18	0.270	SIHP18N50C-E3-ND ***NEW!***	2.85	2.30	2.07	—	—	SIHP18N50C-E3
	TO-220	600	22	0.190	SIHP22N60S-E3-ND ***NEW!***	3.64	2.93	2.67	—	—	SIHP22N60S-E3
18	TO-247	500	20	0.270	SIHG20N50C-E3-ND ***NEW!***	3.05	2.46	2.24	—	—	SIHG20N50C-E3
	TO-247	600	22	0.190	SIHG22N60S-E3-ND ***NEW!***	4.01	3.22	2.94	—	—	SIHG22N60S-E3
Dual N-Channel											
1	1206-8	8	4	0.025	SI5920DC-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5920DC-T1-E3
	1206-8	20	3.1	0.065	SI5904DC-T1-E3CT-ND	1.22	.96	.87	3,000	448.00/M	SI5904DC-T1-E3
	1206-8	20	4.4	0.032	SI5908DC-T1-E3CT-ND	1.72	1.24	1.16	3,000	540.00/M	SI5908DC-T1-E3
	1206-8	30	2.9	0.072	SI5902DC-T1-E3CT-ND	1.67	1.32	1.19	3,000	616.00/M	SI5902DC-T1-E3
2A	1212-8	20	6	0.020	SI7900AEDN-T1-E3CT-ND	2.11	1.52	1.43	3,000	686.00/M	SI7900AEDN-T1-E3
2B	1212-8	30	4.6	0.0333	SI7214DN-T1-E3CT-ND	2.06	1.49	1.40	3,000	672.00/M	SI7214DN-T1-E3
	1212-8	30	6	0.035/0.028	SI7224DN-T1-GE3CT-ND	1.46	1.06	.99	3,000	476.00/M	SI7224DN-T1-GE3
	1212-8	40	6	0.025	SI7216DN-T1-E3CT-ND	1.82	1.44	1.30	3,000	672.00/M	SI7216DN-T1-E3
	1212-8	40	6	0.025	SI7216DN-T1-GE3CT-ND	1.82	1.44	1.30	3,000	672.00/M	SI7216DN-T1-GE3
	1212-8	40	6	0.035	SI7222DN-T1-E3CT-ND	3.54	2.90	2.60	3,000	1569.00/M	SI7222DN-T1-E3
	1212-8	60	3.4	0.048	SI7220DN-T1-E3CT-ND	3.71	2.76	2.65	3,000	1410.00/M	SI7220DN-T1-E3
	1212-8	60	3.4	0.048	SI7220DN-T1-GE3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7220DN-T1-GE3
	1212-8	100	1.8	0.162	SI7922DN-T1-E3CT-ND	2.39	1.66	1.57	3,000	770.00/M	SI7922DN-T1-E3
	1212-8	100	1.8	0.162	SI7922DN-T1-GE3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7922DN-T1-GE3
10A	SC70-6	12	4.5	0.040	SIA912DJ-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA912DJ-T1-GE3
	SC70-6	20	4.5	0.043	SIA914DJ-T1-GE3CT-ND	1.03	.81	.73	3,000	378.00/M	SIA914DJ-T1-GE3
	SC75-6	8	1.5	0.113	SIB914DK-T1-GE3CT-ND	.78	.52	.47	3,000	210.00/M	SIB914DK-T1-GE3
12	SC70-6	20	0.66	0.320	SI1902DL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1902DL-T1-E3
	SC70-6	20	1.13	0.220	SI1912EDH-T1-E3CT-ND	1.41	1.11	1.00	3,000	518.00/M	SI1912EDH-T1-E3
	SC70-6	20	1.3	0.139	SI1988DH-T1-E3CT-ND	.68	.49	.45	3,000	218.00/M	SI1988DH-T1-E3
	SC70-6	20	1.3	0.165	SI1958DH-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1958DH-T1-E3
	SC70-6	30	1.3	0.155	SI1972DH-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1972DH-T1-E3
	SC70-6	30	1.3	0.185	SI1970DH-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1970DH-T1-E3
	SOT563F	20	.485	0.41	SI1024X-T1-E3CT-ND	.66	.47	.40	3,000	186.00/M	SI1024X-T1-E3
	SC89-6	20	.485	0.41	SI1024X-T1-GE3CT-ND	.66	.47	.40	3,000	186.00/M	SI1024X-T1-GE3
13	6-TSOP	20	2.0	0.100	SI3900DV-T1-E3CT-ND	1.22	.96	.87	3,000	448.00/M	SI3900DV-T1-E3
14	8-TSSOP	20	3.3	0.035	SI6925ADQ-T1-GE3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI6925ADQ-T1-GE3
	8-TSSOP	20	4.1	0.024	SI6926ADQ-T1-E3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI6926ADQ-T1-E3
	8-TSSOP	20	4.1	0.024	SI6926ADQ-T1-GE3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI6926ADQ-T1-GE3
	8-TSSOP	30	3.1	0.044	SI6954ADQ-T1-E3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI6954ADQ-T1-E3
	8-TSSOP	30	3.1	0.044	SI6954ADQ-T1-GE3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI6954ADQ-T1-GE3
	8-TSSOP	30	4.0	0.027	SI6928DQ-T1-E3CT-ND	2.27	1.57	1.49	3,000	702.00/M	SI6928DQ-T1-E3
	8-TSSOP	30	4.0	0.027	SI6928DQ-T1-GE3CT-ND	1.89	1.46	1.33	3,000	729.00/M	SI6928DQ-T1-GE3
15A	8-SOIC	20	6.2	0.016	SI9926BDY-T1-E3CT-ND	1.60	1.26	1.14	2,500	588.00/M	SI9926BDY-T1-E3
	8-SOIC	20	8	0.018	SI9926CDY-T1-GE3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI9926CDY-T1-GE3
	8-SOIC	25	8	0.0195	SI4226DY-T1-GE3CT-ND	1.81	1.31	1.22	2,500	567.00/M	SI4226DY-T1-GE3
	8-SOIC	25	8	0.023	SI4670DY-T1-GE3CT-ND	1.46	1.06	.99	2,500	459.00/M	SI4670DY-T1-GE3
	8-SOIC	25	8	0.023	SI4952DY-T1-GE3CT-ND	1.16	.84	.79	2,500	364.50/M	SI4952DY-T1-GE3
	8-SOIC	30	5.7	0.017	SI4804BDY-T1-E3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4804BDY-T1-E3
	8-SOIC	30	5.7	0.017	SI4830ADY-T1-E3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4830ADY-T1-E3
	8-SOIC	30	5.7	0.017	SI4834BDY-T1-E3CT-ND	2.06	1.49	1.40	—	—	SI4834BDY-T1-E3
	8-SOIC	30	6.6	0.013	SI4330DY-T1-E3CT-ND	2.14	1.65	1.50	2,500	824.00/M	SI4330DY-T1-E3
	8-SOIC	30	6.9	0.029	SI4936BDY-T1-E3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4936BDY-T1-E3
	8-SOIC	30	8	0.0135	SI4922BDY-T1-E3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4922BDY-T1-E3
	8-SOIC	30	9.3	0.0075	SI4944DY-T1-E3CT-ND	3.33	2.57	2.33	2,500	1283.00/M	SI4944DY-T1-E3
	8-SOIC	30	10.7/11.3	0.013/0.0125	SI4388DY-T1-E3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4388DY-T1-E3
	8-SOIC	30	8.0/15.2	0.014/0.0083	SI4618DY-T1-E3CT-ND	2.66	2.06	1.87	2,500	1026.00/M	SI4618DY-T1-E3
	8-SOIC	30	5.8/8.2	0.0155/0.0093	SI4816BDY-T1-E3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4816BDY-T1-E3
	8-SOIC	30	5.8/8.2	0.0155/0.0093	SI4816BDY-T1-GE3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4816BDY-T1-GE3
	8-SOIC	30	10.8/7.2	0.012/0.022	SI4972DY-T1-E3CT-ND	2.35	1.81	1.65	2,500	905.00/M	SI4972DY-T1-E3
	8-SOIC	40	5	0.048	SI4908DY-T1-E3CT-ND	1.08	.78	.73	2,500	337.50/M	SI4908DY-T1-E3
	8-SOIC	40	6.6	0.032	SI4906DY-T1-E3CT-ND	1.03	.81	.73	2,500	378.00/M	SI4906DY-T1-E3
	8-SOIC	40	8	0.013	SI4904DY-T1-E3CT-ND	3.02	2.09	1.98	2,500	936.00/M	SI4904DY-T1-E3
	8-SOIC	60	5.3	0.046	SI4900DY-T1-E3CT-ND	1.37	1.08	.98	2,500	504.00/M	SI4900DY-T1-E3
	8-SOIC	60	6.5	0.033	SI4946BEY-T1-E3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4946BEY-T1-E3
	8-SOIC	75	3.6	0.039	SI4992EY-T1-E3CT-ND	3.33	2.57	2.33	2,500	1283.00/M	SI4992EY-T1-E3
15C	8-SOIC	12	11.8	0.017	SI7940DP-T1-GE3CT-ND	2.80	2.16	1.96	3,000	1080.00/M	SI7940DP-T1-GE3
	8-SOIC	12	60	0.0034/0.005	SI7234DP-T1-GE3CT-ND	2.97	2.39	2.18	3,000	1410.00/M	SI7234DP-T1-GE3
	8-SOIC	20	8	0.022/0.015	SI7980DP-T1-GE3CT-ND	2.14	1.48	1.41	3,000	663.00/M	SI7980DP-T1-GE3
	8-SOIC	30	6.3	0.018	SI7842DP-T1-E3CT-ND	2.59	2.00	1.82	3,000	999.00/M	SI7842DP-T1-E3
	8-SOIC	30	6.3	0.018	SI7842DP-T1-GE3CT-ND	2.59	2.00	1.82	3,000	999.00/M	SI7842DP-T1-GE3
	8-SOIC	30	6.4	0.018	SI7844DP-T1-E3CT-ND	2.56	1.98	1.79	3,000	986.00/M	SI7844DP-T1-E3
	8-SOIC	30	6.4	0.018	SI7844DP-T1-GE3CT-ND	2.56	1.98	1.79	3,000	986.00/M	SI7844DP-T1-GE3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
15C	8-SOIC	30	6.4	0.017/0.016	SI7872DP-T1-E3CT-ND	2.90	2.01	1.90	—	—	SI7872DP-T1-E3
	8-SOIC	30	60	0.0056	SI7994DP-T1-GE3CT-ND	5.19	3.66	3.46	3,000	1702.40/M	SI7994DP-T1-GE3
	8-SOIC	40	7.1	0.0135	SI7962DP-T1-E3CT-ND	4.52	3.36	3.23	—	—	SI7962DP-T1-E3
	8-SOIC	40	7.2	0.013	SI7958DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1161.00/M	SI7958DP-T1-E3
	8-SOIC	40	7.2	0.013	SI7958DP-T1-GE3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7958DP-T1-GE3
	8-SOIC	60	4.6	0.075	SI7948DP-T1-GE3CT-ND	1.60	1.26	1.14	3,000	588.00/M	SI7948DP-T1-GE3
	8-SOIC	60	6.1	0.019	SI7964DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7964DP-T1-E3
	8-SOIC	60	6.2	0.017	SI7960DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7960DP-T1-E3
	8-SOIC	60	6.2	0.017	SI7960DP-T1-GE3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI7960DP-T1-GE3
	8-SOIC	100	3.8	0.041	SI7942DP-T1-E3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7942DP-T1-E3
	8-SOIC	100	3.8	0.041	SI7942DP-T1-GE3CT-ND	3.15	2.58	2.31	3,000	1397.00/M	SI7942DP-T1-GE3
	8-SOIC	150	2.1	0.124	SI7946DP-T1-E3CT-ND	4.59	3.75	3.37	3,000	2035.00/M	SI7946DP-T1-E3
19	14-SOIC	20	7.3/9.5	0.0095/0.007	SI4340DY-T1-E3CT-ND	3.44	2.38	2.26	—	—	SI4340DY-T1-E3
					P-Channel						
1	1206-8	8	5.2	0.027	SI5445BDC-T1-E3CT-ND	1.10	.87	.79	3,000	406.00/M	SI5445BDC-T1-E3
	1206-8	12	5.9	0.022	SI5473DC-T1-E3CT-ND	1.33	.97	.90	—	—	SI5473DC-T1-E3
	1206-8	12	6	0.032	SI5475DDC-T1-GE3CT-ND	.92	.72	.63	3,000	305.00/M	SI5475DDC-T1-GE3
	1206-8	20	2.7	0.095	SI5853DC-T1-E3CT-ND	2.48	1.72	1.63	—	—	SI5853DC-T1-E3
	1206-8	20	2.7	0.095	SI5855DC-T1-E3CT-ND	1.04	.75	.69	—	—	SI5855DC-T1-E3
	1206-8	20	3.5	0.064	SI5447DC-T1-E3CT-ND	1.03	.81	.73	3,000	378.00/M	SI5447DC-T1-E3
	1206-8	20	3.5	0.064	SI5447DC-T1-GE3CT-ND	1.03	.81	.73	3,000	378.00/M	SI5447DC-T1-GE3
	1206-8	20	4.8	0.030	SI5433BDC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5433BDC-T1-E3
	1206-8	20	5.2	0.026	SI5401DC-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI5401DC-T1-E3
	1206-8	30	4.3	0.035	SI5435BDC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5435BDC-T1-E3
	1206-8	30	4.3	0.035	SI5435BDC-T1-GE3CT-ND	1.10	.87	.79	3,000	406.00/M	SI5435BDC-T1-GE3
	1206-8	30	6	0.030	SI5403DC-T1-GE3CT-ND	1.29	.93	.87	3,000	405.00/M	SI5403DC-T1-GE3
2A	1212-8	12	16	0.013	SI7405BDN-T1-GE3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI7405BDN-T1-GE3
	1212-8	20	7.5	0.015	SI7411DN-T1-GE3CT-ND	1.37	1.08	.98	3,000	504.00/M	SI7411DN-T1-GE3
	1212-8	20	8	0.059	SI7403BDN-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI7403BDN-T1-E3
	1212-8	20	8.4	0.012	SI7413DN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7413DN-T1-E3
	1212-8	20	9.8	0.0090	SI7107DN-T1-E3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7107DN-T1-E3
	1212-8	20	9.8	0.0090	SI7107DN-T1-GE3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7107DN-T1-GE3
	1212-8	20	16	0.019	SI7601DN-T1-GE3CT-ND	1.06	.84	.76	3,000	392.00/M	SI7601DN-T1-GE3
	1212-8	20	25	0.0106	SI7123DN-T1-GE3CT-ND	1.20	.87	.82	3,000	378.00/M	SI7123DN-T1-GE3
	1212-8	30	6.4	0.020	SI7421DN-T1-E3CT-ND	1.81	1.31	1.22	3,000	588.00/M	SI7421DN-T1-E3
	1212-8	30	7.4	0.014	SI7423DN-T1-E3CT-ND	1.98	1.43	1.34	3,000	644.00/M	SI7423DN-T1-E3
	1212-8	30	16	0.018	SI7121DN-T1-GE3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7121DN-T1-GE3
	1212-8	40	18	0.025	SI7611DN-T1-GE3CT-ND	2.23	1.54	1.46	3,000	689.00/M	SI7611DN-T1-GE3
	1212-8	60	3.6	0.054	SI7415DN-T1-E3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7415DN-T1-E3
	1212-8	60	3.6	0.054	SI7415DN-T1-GE3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI7415DN-T1-GE3
	1212-8	100	13.2	0.108	SI7113DN-T1-E3CT-ND	3.95	2.73	2.59	3,000	1222.00/M	SI7113DN-T1-E3
	1212-8	100	13.2	0.108	SI7113DN-T1-GE3CT-ND	1.82	1.44	1.30	3,000	672.00/M	SI7113DN-T1-GE3
	1212-8	150	8.9	0.295	SI7115DN-T1-GE3CT-ND	2.35	1.81	1.65	3,000	905.00/M	SI7115DN-T1-GE3
2B	1212-8	20	4.3	0.041	SI7703EDN-T1-E3CT-ND	1.81	1.31	1.22	—	—	SI7703EDN-T1-E3
3	4-MFP	8	11.7	0.029	SI8429DB-T1-E1CT-ND	1.29	.93	.87	3,000	405.00/M	SI8429DB-T1-E1
	4-MFP	12	3.6	0.045	SI8405DB-T1-E1CT-ND	1.75	1.38	1.25	3,000	644.00/M	SI8405DB-T1-E1
	4-MFP	12	5.3	0.031	SI8415DB-T1-E1CT-ND	1.46	1.06	.99	3,000	459.00/M	SI8415DB-T1-E1
	4-MFP	20	3.6	0.057	SI8401DB-T1-E1CT-ND	1.29	1.02	.92	3,000	476.00/M	SI8401DB-T1-E1
	4-MFP	20	4.8	0.0393	SI8413DB-T1-E1CT-ND	1.72	1.24	1.16	3,000	540.00/M	SI8413DB-T1-E1
	4-MFP	20	10.0	0.034	SI8435DB-T1-E1CT-ND	1.25	.90	.85	—	—	SI8435DB-T1-E1
	4-MFP	30	4.6	0.038	SI8409DB-T1-E1CT-ND	1.38	1.00	.93	3,000	432.00/M	SI8409DB-T1-E1
4	6-MFP	20	5.8	0.022	SI8407DB-T2-E1CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI8407DB-T2-E1
	6-MFP	20	3.5	0.048	SI8901EDB-T2-E1CT-ND	2.14	1.48	1.41	3,000	663.00/M	SI8901EDB-T2-E1
7	D2PAK	40	110	0.0041	SUM110P04-05-E3CT-ND	6.67	4.71	4.45	800	1915.20	SUM110P04-05-E3
	D2PAK	60	55	0.015	SUM55P06-19L-E3CT-ND	3.99	2.76	2.62	800	1083.00	SUM55P06-19L-E3
	D2PAK	60	110	0.0055	SUM110P06-07L-E3CT-ND	6.67	4.71	4.45	800	1915.20	SUM110P06-07L-E3
	D2PAK	80	110	0.092	SUM110P08-11L-E3CT-ND	6.32	4.46	4.22	800	1814.40	SUM110P08-11L-E3
	D2PAK	100	90	0.0156	SUM90P10-19L-E3CT-ND	6.32	4.46	4.22	800	1814.40	SUM90P10-19L-E3
	D2PAK	30	75	0.0055	SUB75P03-07-E3CT-ND	6.06	4.95	4.45	800	2424.00	SUB75P03-07-E3
10A	SC70-6	20	4.5	0.094	SIA813DJ-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SIA813DJ-T1-GE3
10B	SC70-6	8	12	0.023	SIA417DJ-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SIA417DJ-T1-GE3
	SC70-6	12	12	0.029	SIA413DJ-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA413DJ-T1-GE3
	SC70-6	20	12	0.025	SIA411DJ-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SIA411DJ-T1-E3
	SC70-6	20	12	0.025	SIA411DJ-T1-GE3CT-ND	1.01	.79	.69	3,000	334.00/M	SIA411DJ-T1-GE3
	SC70-6	20	12	0.030	SIA419DJ-T1-GE3CT-ND	1.00	.78	.69	3,000	331.00/M	SIA419DJ-T1-GE3
	SC70-6	20	12	0.035	SIA415DJ-T1-GE3CT-ND	1.12	.81	.76	3,000	351.00/M	SIA415DJ-T1-GE3
	SC70-6	30	12	0.035	SIA421DJ-T1-GE3CT-ND	1.10	.87	.79	3,000	406.00/M	SIA421DJ-T1-GE3
	SC75-6	8	9	0.052	SIB417DK-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SIB417DK-T1-GE3
	SC75-6	8	9	0.058	SIB417EDK-T1-GE3CT-ND	1.16	.84	.79	3,000	364.50/M	SIB417EDK-T1-GE3
	SC75-6	12	9	0.060	SIB419DK-T1-GE3CT-ND	1.04	.75	.69	3,000	322.00/M	SIB419DK-T1-GE3
	SC75-6	20	9	0.075	SIB413DK-T1-GE3CT-ND	1.04	.75	.69	3,000	322.00/M	SIB413DK-T1-GE3
	SC75-6	30	9	0.087	SIB415DK-T1-GE3CT-ND	.86	.62	.57	3,000	266.00/M	SIB415DK-T1-GE3
11	SC-75A	20	.140	8	SI1031R-T1-E3CT-ND	.50	.34	.30	3,000	140.00/M	SI1031R-T1-E3
	SC-75A	20	.350	0.8	SI1013R-T1-E3CT-ND	.58	.41	.35	3,000	163.00/M	SI1013R-T1-E3
	SC-75A	20	.350	0.8	SI1013R-T1-GE3CT-ND	.55	.39	.33	3,000	155.00/M	SI1013R-T1-GE3
	SC-75A	60	.190	4	SI1021R-T1-E3CT-ND	.66	.47	.40	3,000	186.00/M	SI1021R-T1-E3
	SC89-3	20	.350	0.8	SI1013X-T1-E3CT-ND	.52	.37	.32	3,000	147.00/M	SI1013X-T1-E3
	SC89-3	20	.350	0.8	SI1013X-T1-GE3CT-ND	.52	.37	.32	3,000	147.00/M	SI1013X-T1-GE3
	SOT23-3	8	3.5	0.044	SI2305DS-T1-E3CT-ND	1.14	.90	.81	3,000	420.00/M	SI2305DS-T1-E3
	SOT23-3	8	4.1	0.040	SI2305ADS-T1-GE3CT-ND	.72	.51	.43	3,000	202.00/M	SI2305ADS-T1-GE3
	SOT23-3	12	3.0	0.040	SI2315BDS-T1-E3CT-ND	.75	.58	.51	3,000	247.00/M	SI2315BDS-T1-E3
	SOT23-3	12	4.1	0.025	SI2333DS-T1-E3CT-ND	.95	.75	.68	3,000	350.00/M	SI2333DS-T1-E3
	SOT23-3	12	5.1	0.035	SI2333CDS-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI2333CDS-T1-E3
	SOT23-3	20	0.58	0.42	TP0101K-T1-E3CT-ND	.66	.47	.40	3,000	186.00/M	TP0101K-T1-E3
	SOT23-3	20	2.2	0.080	SI2301BDS-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI2301BDS-T1-E3
	SOT23-3	20	2.8	0.092	SI2351DS-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI2351DS-T1-E3
	SOT23-3	20	2.2	0.092	SI2351DS-T1-GE3CT-ND	.84	.65	.57	3,000	276.00/M	SI2351DS-T1-GE3
	SOT23-3	20	3.1	0.112	SI2301CDS-T1-GE3CT-ND	.52	.37	.32	3,000	147.00/M	SI2301CDS-T1-GE3
	SOT23-3	20	3.7	0.031	SI2323DS-T1-E3CT-ND	1.18	.93	.84	3,000	434.00/M	SI2323DS-T1-E3
	SOT23-3	20	3.7	0.031	SI2323DS-T1-GE3CT-ND	1.18	.93	.84	3,000	434.00/M	SI2323DS-T1-GE3
	SOT23-3	30	1.49	0.150	SI2303BDS-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI2303BDS-T1-E3
	SOT23-3	30	2.5	0.063	SI2307BDS-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI2307BDS-T1-E3
	SOT23-3	30	2.7	0.088	SI2307CDS-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI2307CDS-T1-GE3
	SOT23-3	30	2.7	0.190	SI2303CDS-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI2303CDS-T1-GE3
	SOT23-3	30	3.1	0.043	SI2343DS-T1-E3CT-ND	1.18	.93	.84	3,000	434.00/M	SI2343DS-T1-E3
	SOT23-3	30	.385	1.25	TP0202K-T1-E3CT-ND	.77	.54	.47	3,000	217.00/M	TP0202K-T1-E3
	SOT23-3	40	2.3	0.065	SI2319DS-T1-E3CT-ND	.86	.62	.57	3,000	276.00/M	SI2319DS-T1-E3
	SOT23-3	60	1.25	0.275	SI2309DS-T1-E3CT-ND	1.22	.96	.87	3,000	448.00/M	SI2309DS-T1-E3
	SOT23-3	60	.185	6	TP0610K-T1-E3CT-ND	.55	.39	.33	3,000	155.00/M	TP0610K-T1-E3
	SOT23-3	80	2.2	0.216	SI2337DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2337DS-T1-E3
	SOT23-3	150	0.53	1.0	SI2325DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2325DS-T1-E3
	SOT23-3	200	0.38	1.9	SI2327DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2327DS-T1-E3
	SOT-323-3	8	0.86	0.230	SI1305DL-T1-E3CT-ND	.61	.43	.37	3,000	171.00/M	SI1305DL-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
11	SOT-323-3	12	0.85	0.240	SI1307EDL-T1-E3CT-ND	.61	.43	.37	3,000	171.00/M	SI1307EDL-T1-E3
	SOT-323-3	20	0.67	0.360	SI1303DL-T1-E3CT-ND	.61	.43	.37	3,000	171.00/M	SI1303DL-T1-E3
12	SC89-6	8	1.2	0.122	SI1051X-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SI1051X-T1-GE3
	SC89-6	20	0.94	0.184	SI1069X-T1-GE3CT-ND	.62	.41	.37	3,000	165.00/M	SI1069X-T1-GE3
	SC89-6	30	0.98	0.173	SI1073X-T1-GE3CT-ND	.56	.37	.33	3,000	150.00/M	SI1073X-T1-GE3
	SC70-6	8	1.6	0.0622	SI1499DH-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI1499DH-T1-E3
	SC70-6	12	2.7	0.070	SI1417EDH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1417EDH-T1-E3
	SC70-6	20	1.4	0.120	SI1403BDL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1403BDL-T1-E3
	SC70-6	20	1.6	0.065	SI1469DH-T1-E3CT-ND	.70	.55	.48	3,000	232.00/M	SI1469DH-T1-E3
	SC70-6	20	2.3	0.095	SI1413EDH-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1413EDH-T1-E3
	SC70-6	30	1.6	0.080	SI1471DH-T1-E3CT-ND	.70	.55	.48	3,000	232.00/M	SI1471DH-T1-E3
	SC70-6	30	1.6	0.084	SI1473DH-T1-E3CT-ND	.72	.52	.48	—	—	SI1473DH-T1-E3
	SC70-6	30	1.9	0.120	SI1433DH-T1-E3CT-ND	.75	.58	.51	3,000	247.00/M	SI1433DH-T1-E3
	SC70-6	150	0.42	2.05	SI1411DH-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI1411DH-T1-E3
	SC70-6	200	0.3	3.98	SI1419DH-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI1419DH-T1-E3
	SOT563F	12	0.87	0.140	SI1039X-T1-E3CT-ND	.92	.72	.63	3,000	305.00/M	SI1039X-T1-E3
	SOT563F	12	1.18	0.108	SI1065X-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI1065X-T1-E3
	SC89-6	12	1.18	0.108	SI1065X-T1-GE3CT-ND	.84	.65	.57	3,000	276.00/M	SI1065X-T1-GE3
	SOT563F	20	.145	8	SI1033X-T1-E3CT-ND	.59	.39	.35	—	—	SI1033X-T1-E3
	SOT563F	30	0.96	0.139	SI1071X-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1071X-T1-E3
	SC89-6	30	0.96	0.139	SI1071X-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI1071X-T1-GE3
13	6-TSOP	8	5.3	0.019	SI3499DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3499DV-T1-E3
	6-TSOP	12	4.5	0.033	SI3447BDV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3447BDV-T1-E3
	6-TSOP	12	5.9	0.019	SI3473DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3473DV-T1-E3
	6-TSOP	20	1.6	0.160	SI3853DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3853DV-T1-E3
	6-TSOP	20	2.45	0.070	SI3441BDV-T1-E3CT-ND	.74	.52	.45	3,000	209.00/M	SI3441BDV-T1-E3
	6-TSOP	20	2.8	0.092	SI3451DV-T1-E3CT-ND	.86	.62	.57	—	—	SI3451DV-T1-E3
	6-TSOP	20	3.0	0.065	SI3465DV-T1-E3CT-ND	.68	.49	.45	—	—	SI3465DV-T1-E3
	6-TSOP	20	3.6	0.048	SI3443BDV-T1-E3CT-ND	.75	.58	.51	3,000	247.00/M	SI3443BDV-T1-E3
	6-TSOP	20	3.8	0.042	SI3467DV-T1-E3CT-ND	.77	.56	.51	—	—	SI3467DV-T1-E3
	6-TSOP	20	3.9	0.041	SI3867DV-T1-E3CT-ND	1.01	.79	.69	3,000	334.00/M	SI3867DV-T1-E3
	6-TSOP	20	4.3	0.034	SI3433BDV-T1-E3CT-ND	1.06	.82	.72	3,000	348.00/M	SI3433BDV-T1-E3
	6-TSOP	20	5.0	0.024	SI3469DV-T1-E3CT-ND	1.18	.93	.84	3,000	434.00/M	SI3469DV-T1-E3
	6-TSOP	20	5.3	0.020	SI3495DV-T1-E3CT-ND	1.24	.98	.88	3,000	455.00/M	SI3495DV-T1-E3
	6-TSOP	20	8.0	0.023	SI3493BDV-T1-E3CT-ND	.95	.75	.68	3,000	350.00/M	SI3493BDV-T1-E3
	6-TSOP	30	2.7	0.080	SI3455ADV-T1-E3CT-ND	.92	.72	.63	3,000	305.00/M	SI3455ADV-T1-E3
	6-TSOP	30	3.7	0.044	SI3457BDV-T1-E3CT-ND	.75	.58	.51	3,000	247.00/M	SI3457BDV-T1-E3
	6-TSOP	30	4.0	0.038	SI3481DV-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI3481DV-T1-E3
	6-TSOP	30	4.7	0.028	SI3483DV-T1-E3CT-ND	1.31	.95	.89	3,000	427.00/M	SI3483DV-T1-E3
	6-TSOP	60	2.2	0.190	SI3459DV-T1-E3CT-ND	1.79	1.41	1.27	3,000	658.00/M	SI3459DV-T1-E3
	6-TSOP	150	1.4	0.61	SI3437DV-T1-E3CT-ND	1.06	.77	.71	3,000	329.00/M	SI3437DV-T1-E3
14	8-TSSOP	12	4.0	0.032	SI6433BDQ-T1-E3CT-ND	.95	.75	.68	3,000	350.00/M	SI6433BDQ-T1-E3
	8-TSSOP	12	4.0	0.032	SI6433BDQ-T1-GE3CT-ND	.95	.75	.68	3,000	350.00/M	SI6433BDQ-T1-GE3
	8-TSSOP	12	6.8	0.010	SI6467BDQ-T1-E3CT-ND	1.75	1.35	1.23	3,000	675.00/M	SI6467BDQ-T1-E3
	8-TSSOP	12	8.2	0.0068	SI6423DQ-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI6423DQ-T1-E3
	8-TSSOP	12	8.2	0.0068	SI6423DQ-T1-GE3CT-ND	2.00	1.54	1.40	3,000	770.00/M	SI6423DQ-T1-GE3
	8-TSSOP	20	6.2	0.011	SI6463BDQ-T1-E3CT-ND	1.60	1.26	1.14	3,000	588.00/M	SI6463BDQ-T1-E3
	8-TSSOP	20	6.2	0.011	SI6463BDQ-T1-GE3CT-ND	1.60	1.26	1.14	3,000	588.00/M	SI6463BDQ-T1-GE3
	8-TSSOP	30	4.7	0.024	SI6435ADQ-T1-E3CT-ND	1.75	1.38	1.25	3,000	644.00/M	SI6435ADQ-T1-E3
	8-TSSOP	30	4.7	0.024	SI6435ADQ-T1-GE3CT-ND	1.75	1.38	1.25	3,000	644.00/M	SI6435ADQ-T1-GE3
	8-TSSOP	30	6.5	0.015	SI6415DQ-T1-E3CT-ND	2.10	1.62	1.47	3,000	810.00/M	SI6415DQ-T1-E3
	8-TSSOP	30	6.5	0.015	SI6415DQ-T1-GE3CT-ND	2.10	1.62	1.47	3,000	810.00/M	SI6415DQ-T1-GE3
	8-TSSOP	60	2.2	0.092	SI6459BDQ-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI6459BDQ-T1-E3
	8-TSSOP	60	2.2	0.092	SI6459BDQ-T1-GE3CT-ND	1.14	.90	.81	3,000	420.00/M	SI6459BDQ-T1-GE3
15A	8-SOIC	8	13.7	0.0075	SI4465ADY-T1-E3CT-ND	2.65	1.83	1.74	2,500	819.00/M	SI4465ADY-T1-E3
	8-SOIC	20	2.7	0.175	SI4845DY-T1-E3CT-ND	1.08	.78	.73	—	—	SI4845DY-T1-E3
	8-SOIC	20	4.5	0.030	SI9433BDY-T1-E3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI9433BDY-T1-E3
	8-SOIC	20	4.5	0.033	SI9434BDY-T1-E3CT-ND	1.46	1.06	.99	—	—	SI9434BDY-T1-E3
	8-SOIC	20	6.2	0.042	SI4621DY-T1-E3CT-ND	.95	.69	.63	2,500	294.00/M	SI4621DY-T1-E3
	8-SOIC	20	7.3	0.014	SI4403BDY-T1-E3CT-ND	1.71	1.35	1.22	2,500	630.00/M	SI4403BDY-T1-E3
	8-SOIC	20	9.8	0.0085	SI4463BDY-T1-E3CT-ND	2.00	1.54	1.40	2,500	770.00/M	SI4463BDY-T1-E3
	8-SOIC	20	10	0.007	SI4421DY-T1-E3CT-ND	2.80	2.16	1.96	2,500	1080.00/M	SI4421DY-T1-E3
	8-SOIC	20	10	0.006	SI4423DY-T1-E3CT-ND	3.01	2.33	2.11	2,500	1161.00/M	SI4423DY-T1-E3
	8-SOIC	30	4.1	0.033	SI9435BDY-T1-E3CT-ND	1.03	.81	.73	2,500	378.00/M	SI9435BDY-T1-E3
	8-SOIC	30	4.6	0.059	SI4833ADY-T1-E3CT-ND	1.25	.90	.85	—	—	SI4833ADY-T1-E3
	8-SOIC	30	5.7	0.023	SI4431BDY-T1-E3CT-ND	1.22	.96	.87	2,500	448.00/M	SI4431BDY-T1-E3
	8-SOIC	30	7	0.015	SI4435BDY-T1-E3CT-ND	1.29	1.02	.92	2,500	476.00/M	SI4435BDY-T1-E3
	8-SOIC	30	8.1	0.012	SI4825DY-T1-E3CT-ND	2.52	1.95	1.77	2,500	972.00/M	SI4825DY-T1-E3
	8-SOIC	30	8.1	0.012	SI4825DY-T1-GE3CT-ND	2.52	1.95	1.77	2,500	972.00/M	SI4825DY-T1-GE3
	8-SOIC	30	8.8	0.010	SI4425BDY-T1-E3CT-ND	2.21	1.71	1.55	2,500	851.00/M	SI4425BDY-T1-E3
	8-SOIC	30	9	0.032	SI4431CDY-T1-GE3CT-ND	1.18	.93	.84	2,500	434.00/M	SI4431CDY-T1-GE3
	8-SOIC	30	9.7	0.0088	SI4427BDY-T1-E3CT-ND	2.07	1.60	1.45	2,500	797.00/M	SI4427BDY-T1-E3
	8-SOIC	30	10	0.007	SI4483EDY-T1-E3CT-ND	2.35	1.81	1.65	2,500	905.00/M	SI4483EDY-T1-E3
	8-SOIC	30	10.5	0.0063	SI4413ADY-T1-E3CT-ND	3.01	2.33	2.11	2,500	1161.00/M	SI4413ADY-T1-E3
	8-SOIC	30	11.4	0.024	SI4435DDY-T1-GE3CT-ND	.84	.65	.57	2,500	276.00/M	SI4435DDY-T1-GE3
	8-SOIC	30	13	0.018	SI4835DDY-T1-GE3CT-ND	1.44	1.14	1.03	2,500	532.00/M	SI4835DDY-T1-GE3
	8-SOIC	30	29	0.005	SI4459ADY-T1-GE3CT-ND	2.80	2.16	1.96	2,500	1080.00/M	SI4459ADY-T1-GE3
	8-SOIC	40	3.3	0.045	SI4447DY-T1-E3CT-ND	.92	.72	.63	2,500	305.00/M	SI4447DY-T1-E3
	8-SOIC	40	8.7	0.011	SI4401BDY-T1-E3CT-ND	2.73	2.11	1.92	2,500	1053.00/M	SI4401BDY-T1-E3
	8-SOIC	40	8.7	0.011	SI4401BDY-T1-GE3CT-ND	2.21	1.71	1.55	2,500	851.00/M	SI4401BDY-T1-GE3
	8-SOIC	60	4.7	0.120	SI9407BDY-T1-GE3CT-ND	1.52	1.20	1.08	2,500	560.00/M	SI9407BDY-T1-GE3
15B	8-SOIC	20	12.5	0.006	SI7485DP-T1-E3CT-ND	3.03	2.48	2.23	3,000	1343.00/M	SI7485DP-T1-E3
	8-SOIC	20	12.5	0.006	SI7485DP-T1-GE3CT-ND	3.03	2.48	2.23	3,000	1343.00/M	SI7485DP-T1-GE3
	8-SOIC	30	11	0.007	SI7491DP-T1-E3CT-ND	3.03	2.48	2.23	3,000	1343.00/M	SI7491DP-T1-E3
	8-SOIC	30	13	0.0056	SI7459DP-T1-E3CT-ND	3.36	2.75	2.47	3,000	1490.00/M	SI7459DP-T1-E3
	8-SOIC	30	13	0.0056	SI7459DP-T1-GE3CT-ND	3.36	2.75	2.47	3,000	1490.00/M	SI7459DP-T1-GE3
	8-SOIC	30	14	0.0047	SI7483ADP-T1-E3CT-ND	3.60	2.94	2.64	3,000	1596.00/M	SI7483ADP-T1-E3
	8-SOIC	30	14	0.0047	SI7483ADP-T1-GE3CT-ND	3.60	2.94	2.64	3,000	1596.00/M	SI7483ADP-T1-GE3
	8-SOIC	30	60	0.0039	SI7135DP-T1-GE3CT-ND	3.02	2.09	1.98	3,000	936.00/M	SI7135DP-T1-GE3
	8-SOIC	40	11	0.0075	SI7463DP-T1-E3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI7463DP-T1-E3
	8-SOIC	40	11	0.0075	SI7463DP-T1-GE3CT-ND	3.33	2.57	2.33	3,000	1283.00/M	SI7463DP-T1-GE3
	8-SOIC	60	3.2	0.051	SI7465DP-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7465DP-T1-E3
	8-SOIC	60	3.2	0.051	SI7465DP-T1-GE3CT-ND	1.44	1.14	1.03	3,000	532.00/M	SI7465DP-T1-GE3
	8-SOIC	60	8.6	0.0115	SI7461DP-T1-E3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7461DP-T1-E3
	8-SOIC	60	8.6	0.0115	SI7461DP-T1-GE3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7461DP-T1-GE3
	8-SOIC	80	28	0.021	SI7469DP-T1-E3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7469DP-T1-E3
	8-SOIC	100	28	0.033	SI7489DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7489DP-T1-E3
	8-SOIC	100	28	0.033	SI7489DP-T1-GE3CT-ND	2.99	2.31	2.10	3,000	1154.00/M	SI7489DP-T1-GE3
16	TO-252	60	19	0.060	SUD19P06-60-GE3CT-ND	1.29	1.02	.92	2,000	476.00/M	SUD19P06-60-GE3
	TO-252	60	50	0.015	SUD50P06-15-GE3CT-ND	3.01	2.33	2.11	2,000	1161.00/M	SUD50P06-15-GE3
20	TO-92-18RM	60	0.27	3.1	BS250KL-TR1-E3CT-ND	.76	.50	.45	2,000	202.50/M	BS250KL-TR1-E3
	TO-92-3	60	0.27	3.1	TP0610KL-TR1-E3CT-ND	.69	.49	.42	2,000	195.00/M	TP0610KL-TR1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Package	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
Dual P-Channel											
1	1206-8	20	2.1	0.130	SI5903DC-T1-E3CT-ND	2.17	1.68	1.52	3,000	837.00/M	SI5903DC-T1-E3
	1206-8	20	3	0.069	SI5935DC-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI5935DC-T1-E3
2B	1212-8	20	4.2	0.040	SI7911DN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7911DN-T1-E3
	1212-8	30	4.3	0.038	SI7923DN-T1-E3CT-ND	1.79	1.38	1.25	3,000	689.00/M	SI7923DN-T1-E3
	1212-8	40	6	0.060	SI7905DN-T1-GE3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7905DN-T1-GE3
10A	SC70-6	12	4.5	0.070	SIA913DJ-T1-GE3CT-ND	1.04	.75	.69	3,000	322.00/M	SIA913DJ-T1-GE3
	SC70-6	20	4.5	0.078	SIA911DJ-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SIA911DJ-T1-E3
	SC70-6	20	4.5	0.101	SIA911EDJ-T1-GE3CT-ND	.67	.45	.40	3,000	180.00/M	SIA911EDJ-T1-GE3
	SC70-6	20	4.5	0.110	SIA917DJ-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SIA917DJ-T1-GE3
	SC75-6	20	2.6	0.242	SIB911DK-T1-GE3CT-ND	.75	.58	.51	3,000	247.00/M	SIB911DK-T1-GE3
12	SC70-6	8	0.57	0.51	SI1905DL-T1-E3CT-ND	.66	.51	.45	3,000	218.00/M	SI1905DL-T1-E3
	SC70-6	12	1.00	0.300	SI1917EDH-T1-E3CT-ND	1.38	1.00	.93	—	—	SI1917EDH-T1-E3
	SC70-6	20	0.41	0.850	SI1903DL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1903DL-T1-E3
	SC70-6	20	0.88	0.400	SI1913DH-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1913DH-T1-E3
	SOT563F	20	.370	0.8	SI1023X-T1-E3CT-ND	.52	.37	.32	3,000	147.00/M	SI1023X-T1-E3
	SC89-6	20	.370	0.8	SI1023X-T1-GE3CT-ND	.52	.37	.32	3,000	147.00/M	SI1023X-T1-GE3
	SOT563F	60	.190	4	SI1025X-T1-E3CT-ND	.64	.43	.38	3,000	178.00/M	SI1025X-T1-E3
13	6-TSOP	20	1.8	0.115	SI3911DV-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI3911DV-T1-E3
	6-TSOP	20	2.7	0.092	SI3951DV-T1-E3CT-ND	1.04	.75	.69	—	—	SI3951DV-T1-E3
	6-TSOP	30	1.8	0.107	SI3993DV-T1-E3CT-ND	1.01	.79	.69	3,000	334.00/M	SI3993DV-T1-E3
14	8-TSSOP	12	2.3	0.06	SI6943BDQ-T1-E3CT-ND	1.46	1.06	.99	3,000	476.00/M	SI6943BDQ-T1-E3
	8-TSSOP	12	4.0	0.024	SI6969BDQ-T1-E3CT-ND	2.10	1.45	1.38	3,000	650.00/M	SI6969BDQ-T1-E3
	8-TSSOP	12	4.9	0.016	SI6913DQ-T1-E3CT-ND	2.90	2.01	1.90	3,000	932.00/M	SI6913DQ-T1-E3
	8-TSSOP	20	3.4	0.036	SI6963BDQ-T1-GE3CT-ND	1.60	1.26	1.14	3,000	588.00/M	SI6963BDQ-T1-GE3
	8-TSSOP	20	4.1	0.026	SI6981DQ-T1-E3CT-ND	2.14	1.65	1.50	3,000	824.00/M	SI6981DQ-T1-E3
	8-TSSOP	20	4.6	0.019	SI6983DQ-T1-E3CT-ND	2.42	1.87	1.70	3,000	932.00/M	SI6983DQ-T1-E3
	8-TSSOP	30	3.6	0.024	SI6993DQ-T1-E3CT-ND	2.42	1.87	1.70	3,000	932.00/M	SI6993DQ-T1-E3
15A	8-SOIC	12	4.8	0.028	SI9934BDY-T1-E3CT-ND	1.52	1.20	1.08	2,500	560.00/M	SI9934BDY-T1-E3
	8-SOIC	12	6.7	0.0145	SI4931DY-T1-E3CT-ND	2.35	1.81	1.65	2,500	905.00/M	SI4931DY-T1-E3
	8-SOIC	12	7.4	0.0115	SI4933DY-T1-E3CT-ND	3.44	2.38	2.26	2,500	1066.00/M	SI4933DY-T1-E3
	8-SOIC	20	3.6	0.048	SI9933BDY-T1-E3CT-ND	1.37	1.08	.98	2,500	504.00/M	SI9933BDY-T1-E3
	8-SOIC	20	4	0.058	SI9933CDY-T1-GE3CT-ND	.72	.52	.48	2,500	224.00/M	SI9933CDY-T1-GE3
	8-SOIC	20	4.9	0.025	SI4963BDY-T1-E3CT-ND	1.93	1.49	1.35	2,500	743.00/M	SI4963BDY-T1-E3
	8-SOIC	20	6.3	0.016	SI4943BDY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4943BDY-T1-E3
	8-SOIC	20	7.1	0.0125	SI4913DY-T1-E3CT-ND	3.78	2.61	2.48	2,500	1170.00/M	SI4913DY-T1-E3
	8-SOIC	20	8	0.0192	SI4943CDY-T1-GE3CT-ND	2.31	1.60	1.52	2,500	715.00/M	SI4943CDY-T1-GE3
	8-SOIC	30	3.0	0.062	SI4947ADY-T1-E3CT-ND	1.22	.96	.87	2,500	448.00/M	SI4947ADY-T1-E3
	8-SOIC	30	3.7	0.045	SI4953ADY-T1-E3CT-ND	1.56	1.23	1.11	2,500	574.00/M	SI4953ADY-T1-E3
	8-SOIC	30	5.3	0.020	SI4925BDY-T1-E3CT-ND	1.93	1.49	1.35	2,500	743.00/M	SI4925BDY-T1-E3
	8-SOIC	30	5.8	0.018	SI4973DY-T1-E3CT-ND	3.74	2.59	2.45	—	—	SI4973DY-T1-E3
	8-SOIC	60	2.4	0.100	SI4948BEY-T1-E3CT-ND	1.63	1.18	1.11	2,500	532.00/M	SI4948BEY-T1-E3
15C	8-SOIC	20	7.7	0.014	SI7983DP-T1-E3CT-ND	3.91	2.70	2.56	3,000	1209.00/M	SI7983DP-T1-E3
	8-SOIC	30	7.0	0.016	SI7945DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7945DP-T1-E3
	8-SOIC	30	7.0	0.016	SI7945DP-T1-GE3CT-ND	3.01	2.33	2.11	3,000	1161.00/M	SI7945DP-T1-GE3
	8-SOIC	60	3.2	0.051	SI7949DP-T1-E3CT-ND	2.23	1.54	1.46	3,000	689.00/M	SI7949DP-T1-E3
N/P-Channel											
1	1206-8	20	3.1/2.1	0.065/0.130	SI5513DC-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5513DC-T1-E3
	1206-8	20	4.4/3	0.032/0.069	SI5515DC-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI5515DC-T1-E3
	1206-8	20	6.1/4.8	0.043/0.074	SI5509DC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5509DC-T1-E3
	1206-8	30	2.9/2.1	0.072/0.137	SI5504DC-T1-E3CT-ND	2.60	1.80	1.71	3,000	806.00/M	SI5504DC-T1-E3
	1206-8	30	4/3.6	0.045/0.125	SI5511DC-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI5511DC-T1-E3
2A	1212-8	30	5.4/4.5	0.028/0.041	SI7501DN-T1-E3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI7501DN-T1-E3
	1212-8	30	5.4/4.5	0.028/0.041	SI7501DN-T1-GE3CT-ND	1.29	1.02	.92	3,000	476.00/M	SI7501DN-T1-GE3
9B	PowerPAK/ ChipFET	20	6	0.036/0.064	SI5519DU-T1-GE3CT-ND	1.29	.93	.87	3,000	405.00/M	SI5519DU-T1-GE3
10A	SC70-6	12	4.5	0.040/0.070	SIA511DJ-T1-GE3CT-ND	1.01	.81	.73	3,000	374.00/M	SIA511DJ-T1-GE3
	SC70-6	20	4.5	0.060/0.110	SIA513DJ-T1-GE3CT-ND	.95	.69	.63	3,000	294.00/M	SIA513DJ-T1-GE3
12	SC70-6	20	0.29/0.41	1.55/0.850	SI1551DL-T1-E3CT-ND	.66	.47	.40	3,000	186.00/M	SI1551DL-T1-E3
	SC70-6	20	0.66/0.41	0.320/0.850	SI1553DL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1553DL-T1-E3
	SC70-6	20/8	0.66/0.57	0.320/0.510	SI1555DL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1555DL-T1-E3
	SC70-6	20	1.13/0.88	0.220/0.400	SI1563DH-T1-E3CT-ND	.69	.49	.42	3,000	194.00/M	SI1563DH-T1-E3
	SC70-6	20	1.13/0.88	0.220/0.400	SI1563EDH-T1-E3CT-ND	.74	.52	.45	3,000	209.00/M	SI1563EDH-T1-E3
	SC70-6	30	0.54/0.42	0.410/0.800	SI1539DL-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1539DL-T1-E3
	SOT563F	20	.180/.145	5/8	SI1035X-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1035X-T1-E3
	SOT563F	20	.485/.370	0.41/0.80	SI1016X-T1-E3CT-ND	.58	.41	.35	3,000	163.00/M	SI1016X-T1-E3
	SC89-6	20	.485/.370	0.41/0.80	SI1016X-T1-GE3CT-ND	.55	.39	.33	3,000	155.00/M	SI1016X-T1-GE3
	SOT563F	60	.305/.190	1.40/4	SI1029X-T1-E3CT-ND	.63	.45	.38	3,000	178.00/M	SI1029X-T1-E3
	SC89-6	60	.305/.190	1.40/4	SI1029X-T1-GE3CT-ND	.61	.43	.37	3,000	171.00/M	SI1029X-T1-GE3
13	6-TSOP	20	1.4/0.96	0.240/0.510	SI3850ADV-T1-E3CT-ND	.68	.49	.45	—	—	SI3850ADV-T1-E3
	6-TSOP	20	2.0/1.5	0.100/0.160	SI3585DV-T1-E3CT-ND	.84	.65	.57	3,000	276.00/M	SI3585DV-T1-E3
	6-TSOP	20	2.9/2.1	0.047/0.086	SI3586DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3586DV-T1-E3
	6-TSOP	30	2.5/1.7	0.062/0.135	SI3590DV-T1-E3CT-ND	1.01	.79	.69	3,000	334.00/M	SI3590DV-T1-E3
	6-TSOP	30	2.5/1.8	0.085/0.165	SI3552DV-T1-E3CT-ND	.92	.72	.63	3,000	305.00/M	SI3552DV-T1-E3
14	8-TSSOP	20	4.5/3.5	0.023/0.040	SI6562DQ-T1-E3CT-ND	1.89	1.46	1.33	3,000	729.00/M	SI6562DQ-T1-E3
	8-TSSOP	20	4.5/3.5	0.023/0.040	SI6562DQ-T1-GE3CT-ND	1.89	1.46	1.33	3,000	729.00/M	SI6562DQ-T1-GE3
15A	8-SOIC	20	6.6/3.8	0.016/0.048	SI4500BDY-T1-E3CT-ND	1.29	1.02	.92	2,500	476.00/M	SI4500BDY-T1-E3
	8-SOIC	20	7.2/4.6	0.0115/0.022	SI4511DY-T1-E3CT-ND	2.06	1.49	1.40	2,500	648.00/M	SI4511DY-T1-E3
	8-SOIC	30/8	6.3/4.1	0.015/0.030	SI4501ADY-T1-E3CT-ND	1.72	1.24	1.16	—	—	SI4501ADY-T1-E3
	8-SOIC	40	5/4.4	0.048/0.068	SI4567DY-T1-E3CT-ND	1.14	.90	.81	2,500	420.00/M	SI4567DY-T1-E3
	8-SOIC	40	6.6/5.6	0.032/0.045	SI4565ADY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4565ADY-T1-E3
	8-SOIC	40	6.8/7.2	0.0355/0.035	SI4561DY-T1-GE3CT-ND	1.72	1.24	1.16	2,500	540.00/M	SI4561DY-T1-GE3
	8-SOIC	40	7.6/7.9	0.022/0.024	SI4569DY-T1-E3CT-ND	1.79	1.38	1.25	2,500	689.00/M	SI4569DY-T1-E3
	8-SOIC	40	8	0.013/0.020	SI4563DY-T1-E3CT-ND	3.02	2.09	1.98	2,500	936.00/M	SI4563DY-T1-E3
	8-SOIC	60	5.3/3.9	0.046/0.1	SI4559ADY-T1-E3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4559ADY-T1-E3
	8-SOIC	60	5.3/3.9	0.046/0.1	SI4559ADY-T1-GE3CT-ND	1.86	1.44	1.30	2,500	716.00/M	SI4559ADY-T1-GE3
15C	8-SOIC	12	7.6/5.7	0.014/0.026	SI7540DP-T1-E3CT-ND	2.73	2.11	1.92	3,000	1053.00/M	SI7540DP-T1-E3
	8-SOIC	12	7.6/5.7	0.014/0.026	SI7540DP-T1-GE3CT-ND	2.21	1.71	1.55	3,000	851.00/M	SI7540DP-T1-GE3
	8-SOIC	60	3.0/3.2	0.060/0.051	SI7530DP-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7530DP-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Application Specific Integrated Circuits

Package	Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
			1	25	100		Qty.	Pricing	
SC70-6	1.8-8V Load Switch with Level-Shift	SI1865DL-T1-E3CT-ND	.50	.34	.30	SI1865DL-T1-E3TR-ND	3,000	135.00/M	SI1865DL-T1-E3
SC70-6	1.8-20V Load Switch with Level-Shift	SI1869DH-T1-E3CT-ND	.66	.51	.45	SI1869DH-T1-E3TR-ND	3,000	218.00/M	SI1869DH-T1-E3
6-TSOP	4.5-20V Load Switch with Level-Shift	SI3861BDV-T1-E3CT-ND	.84	.65	.57	SI3861BDV-T1-E3TR-ND	3,000	276.00/M	SI3861BDV-T1-E3
6-TSOP	1.8-8V Load Switch with Level-Shift	SI3865BDV-T1-E3CT-ND	1.03	.81	.73	SI3865BDV-T1-E3TR-ND	3,000	378.00/M	SI3865BDV-T1-E3
16-SOIC	6-30V Battery Disconnect Switch	SI4720CY-T1-E3CT-ND	8.11	5.72	5.41	SI4720CY-T1-E3TR-ND	2,500	2662.40/M	SI4720CY-T1-E3
8-TSSOP	2.5V N-Channel Battery Switch	SI6924AEDQ-T1-E3CT-ND	2.14	1.48	1.41	—	—	—	SI6924AEDQ-T1-E3

MOSFETs

Multiple pinout configurations available, see Digi-Key website for data sheet.

Alpha & Omega Semiconductor (AOS) has a portfolio of approximately 400 products making AOS a well known, high volume, global supplier of Power MOSFETs. This diverse product range includes both N and P channel technologies in popular industry standard packages from the small form factor SC-89, to the robust TO-220. In addition AOS boasts some unique advanced low R_{DS}(on) surface mount packages for demanding high current density designs. These packages are designed to complement AOS' latest highly efficient MOSFET processes such as SRFET™ and SDMOS™. Through an in depth understanding of customers' applications these products are optimized to support the Power Management requirements of the Computing, Consumer, Communications and Industrial Market Segments.

Dimensions in mm.

Fig. 1 — SOT-23

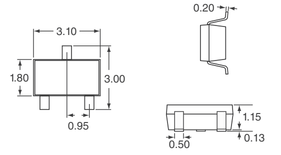

Fig. 2 — 8-SOIC

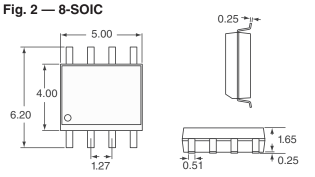

Fig. 3 — 6-TSOP

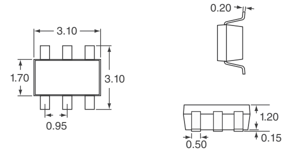

Fig. 4 — SC70-3

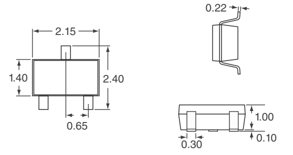

Fig. 5 — SC70-6

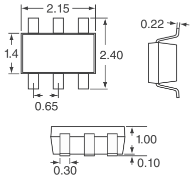

Fig. 6 — TO-252 (D-PAK)

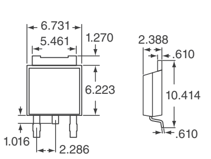

Fig. 7 — Ultra SO-8

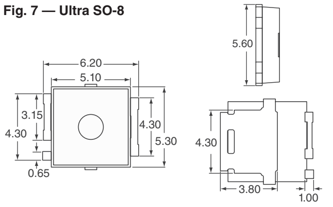

Fig. 8 — 8-DFN

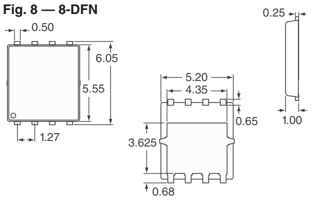

Fig. 9 — TO-220

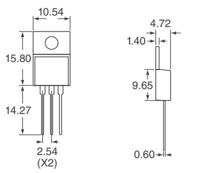

Fig. 10 — 8-TSSOP

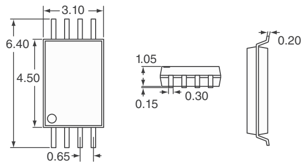

Fig. 11 — 6-DFN

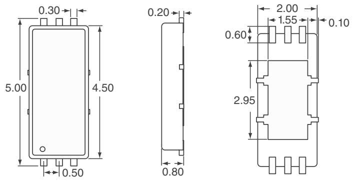

Fig. 12 — TO-252-5

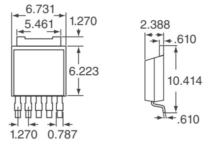

Fig. 13 — 8-PDIP

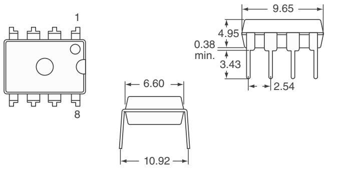

Fig.	Package	V_{DS} (V)	I_D (A)	$R_{DS(on)}$ Max. (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Alpha & Omega Semiconductor Part No.
							N-Channel					
1	SOT-23	30	5.7	26.5	785-1000-1-ND	.49	7.96	26.13	785-1000-2-ND	3,000	111.00/M	AO3400A
	SOT-23	30	4	55	785-1002-1-ND	.63	9.15	29.50	785-1002-2-ND	3,000	106.00/M	AO3402
	SOT-23	30	5.8	28	785-1004-1-ND	.47	7.72	25.35	785-1004-2-ND	3,000	107.00/M	AO3404A
	SOT-23	30	3.6	65	785-1005-1-ND	.51	7.43	23.76	—	—	—	AO3406
	SOT-23	20	4.2	50	785-1009-1-ND	.57	8.37	27.00	785-1009-2-ND	3,000	97.00/M	AO3414
	SOT-23	20	6.5	22	785-1011-1-ND	.55	9.03	29.64	785-1011-2-ND	3,000	125.00/M	AO3416
	SOT-23	30	3.8	60	785-1012-1-ND	.54	7.91	25.50	785-1012-2-ND	3,000	92.00/M	AO3418
	SOT-23	20	6	24	785-1014-1-ND	.48	7.84	25.74	785-1014-2-ND	3,000	109.00/M	AO3420
	SOT-23	55	2.1	160	785-1015-1-ND	.59	8.68	28.00	785-1015-2-ND	3,000	101.00/M	AO3422
	SOT-23	30	2	80	785-1017-1-ND	.56	8.22	26.50	785-1017-2-ND	3,000	95.00/M	AO3424
2	8-SOIC	30	8.5	24	785-1020-1-ND	.62	10.45	36.30	785-1020-2-ND	3,000	171.00/M	AO4404B
	8-SOIC	30	18	5.5	785-1028-1-ND	1.06	20.40	72.00	785-1028-2-ND	3,000	348.00/M	AO4430
	8-SOIC	60	8.2	22	785-1032-1-ND	.91	17.60	62.10	785-1032-2-ND	3,000	300.00/M	AO4438
	8-SOIC	60	5	55	785-1033-1-ND	.68	11.50	39.93	—	—	—	AO4440
	8-SOIC	30	20	4.6	785-1035-1-ND	1.19	22.77	80.04	785-1035-2-ND	3,000	348.00/M	AO4456
	8-SOIC	30	11.6	14	785-1038-1-ND	.54	9.43	32.34	785-1038-2-ND	3,000	152.00/M	AO4468
	8-SOIC	30	13.4	11.5	785-1039-1-ND	.76	14.71	51.90	785-1039-2-ND	3,000	251.00/M	AO4474
	8-SOIC	40	14	11.5	785-1040-1-ND	.95	18.36	64.80	785-1040-2-ND	3,000	313.00/M	AO4480
	8-SOIC	30	12.7	11.8	785-1050-1-ND	.69	13.09	46.20	—	—	—	AO4710
	8-SOIC	30	11.2	14.5	785-1051-1-ND	.79	13.40	46.53	—	—	—	AO4712
3	6-TSOP	30	6.9	28	785-1067-1-ND	.65	10.57	34.71	785-1067-2-ND	3,000	147.00/M	AO6400
	6-TSOP	30	7	27	785-1069-1-ND	.57	9.43	31.16	785-1069-2-ND	3,000	135.00/M	AO6402A
	6-TSOP	20	8.6	17	785-1071-1-ND	.52	9.05	31.02	785-1071-2-ND	3,000	146.00/M	AO6404
	6-TSOP	55	2.3	160	785-1075-1-ND	.51	8.43	27.69	785-1075-2-ND	3,000	117.00/M	AO6414
4	SC70-3	30	1.7	85	785-1084-1-ND	.57	9.38	30.81	785-1084-2-ND	3,000	130.00/M	AO7400
	SC70-3	20	1	225	785-1086-1-ND	.47	7.72	25.35	785-1086-2-ND	3,000	107.00/M	AO7404
6	TO-252 (D-PAK)	60	38	20	785-1107-1-ND	1.01	19.55	69.00	785-1107-2-ND	2,500	334.00/M	AOD442
	TO-252 (D-PAK)	60	12	60	785-1108-1-ND	.75	13.09	44.88	785-1108-2-ND	2,500	211.00/M	AOD444
	TO-252 (D-PAK)	25	50	6	785-1110-1-ND	.86	16.32	57.60	785-1110-2-ND	2,500	268.80/M	AOD456A
	TO-252 (D-PAK)	25	55	6	785-1111-1-ND	.86	16.32	57.60	785-1111-2-ND	2,500	268.80/M	AOD472
	TO-252 (D-PAK)	20	25	21	785-1112-1-ND	.54	9.43	32.34	785-1112-2-ND	2,500	152.00/M	AOD476
	TO-252 (D-PAK)	30	25	23	785-1113-1-ND	.62	10.12	33.44	785-1113-2-ND	2,500	152.00/M	AOD480
	TO-252 (D-PAK)	30	25	15	785-1114-1-ND	.58	10.11	34.65	785-1114-2-ND	2,500	163.00/M	AOD484
	TO-252 (D-PAK)	40	50	9.8	785-1115-1-ND	.93	17.51	61.80	785-1115-2-ND	2,500	288.40/M	AOD486A
7	Ultra SO-8	30	85	6.5	785-1120-1-ND	1.23	23.68	83.23	—	—	—	AOL1414
	Ultra SO-8	30	46	10.5	785-1124-1-ND	1.03	19.38	68.40	785-1124-2-ND	3,000	331.00/M	AOL1426
	Ultra SO-8	30	49	9.5	785-1125-1-ND	1.04	19.72	69.60	785-1125-2-ND	3,000	324.80/M	AOL1428
	Ultra SO-8	30	85	4.2	785-1128-1-ND	1.54	29.62	104.11	785-1128-2-ND	3,000	420.00/M	AOL1700

† Bulk

(Continued)

Fig.	Package	V_{DS} (V)	I_D (A)	$R_{DS(on)}$ Max. (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Alpha & Omega Semiconductor Part No.
						1	25	100		Qty.	Pricing	
8	8-DFN	30	20	10	785-1139-1-ND	1.05	19.81	69.90	—	—	—	AON7702
9	TO-220	105	40	28	785-1144-5-ND†	1.14	22.89	80.12	—	—	—	AOT404
	TO-220	75	80	11.5	785-1145-5-ND†	1.30	25.90	90.65	—	—	—	AOT430
	TO-220	60	85	7.5	785-1146-5-ND†	1.55	30.94	108.29	—	—	—	AOT460
	TO-220	60	70	18	785-1147-5-ND†	1.01	20.16	70.56	—	—	—	AOT462
P-Channel												
1	SOT-23	30	4.3	44	785-1001-1-ND	.45	7.36	24.18	785-1001-2-ND	3,000	102.00/M	AO3401A
	SOT-23	30	2.6	130	785-1003-1-ND	.44	7.13	23.40	785-1003-2-ND	3,000	99.00/M	AO3403
	SOT-23	30	4.3	48	785-1006-1-ND	.52	8.55	28.08	785-1006-2-ND	3,000	119.00/M	AO3407A
	SOT-23	30	2.6	130	785-1007-1-ND	.57	8.37	27.00	785-1007-2-ND	3,000	97.00/M	AO3409
	SOT-23	20	3	97	785-1008-1-ND	.56	8.22	26.50	785-1008-2-ND	3,000	95.00/M	AO3413
	SOT-23	20	4	43	785-1010-1-ND	.51	8.40	27.74	785-1010-2-ND	3,000	124.10/M	AO3415
	SOT-23	20	3.5	75	785-1013-1-ND	.53	7.75	25.00	785-1013-2-ND	3,000	90.00/M	AO3419
	SOT-23	20	2	92	785-1016-1-ND	.49	7.13	23.00	785-1016-2-ND	3,000	83.00/M	AO3423
2	8-SOIC	30	6.1	46	785-1019-1-ND	.73	12.45	43.23	—	—	—	AO4403
	8-SOIC	30	12	11	785-1022-1-ND	.66	12.75	45.00	785-1022-2-ND	3,000	218.00/M	AO4407A
	8-SOIC	30	15	7.5	785-1023-1-ND	1.10	21.75	78.30	785-1023-2-ND	3,000	406.00/M	AO4409
	8-SOIC	30	9.7	20	785-1024-1-ND	.82	14.34	49.17	785-1024-2-ND	3,000	231.00/M	AO4419
	8-SOIC	60	6.2	40	785-1025-1-ND	.78	15.13	53.40	785-1025-2-ND	3,000	258.00/M	AO4421
	8-SOIC	38	14	10	785-1026-1-ND	1.11	21.83	78.57	785-1026-2-ND	3,000	407.00/M	AO4425
	8-SOIC	30	11	14	785-1029-1-ND	.72	13.52	47.70	785-1029-2-ND	3,000	218.00/M	AO4433
	8-SOIC	30	10.5	18	785-1030-1-ND	.75	13.19	45.21	785-1030-2-ND	3,000	212.00/M	AO4435
	8-SOIC	30	6.5	46	785-1036-1-ND	.72	12.61	43.23	785-1036-2-ND	3,000	203.00/M	AO4459
3	6-TSOP	30	3.7	44	785-1068-1-ND	.53	8.63	28.50	—	—	—	AO6401A
	6-TSOP	30	6	35	785-1070-1-ND	.55	9.31	32.34	785-1070-2-ND	3,000	152.00/M	AO6403
	6-TSOP	30	5	52	785-1072-1-ND	.57	9.38	30.81	785-1072-2-ND	3,000	130.00/M	AO6405
	6-TSOP	20	5	45	785-1074-1-ND	.55	9.09	30.02	785-1074-2-ND	3,000	134.30/M	AO6409
4	SC70-3	30	1.2	150	785-1085-1-ND	.54	8.91	29.25	785-1085-2-ND	3,000	124.00/M	AO7401
	SC70-3	20	1.4	113	785-1091-1-ND	.52	8.51	28.12	—	—	—	AO7413
5	SC70-6	30	1.6	150	785-1087-1-ND	.52	8.51	28.12	785-1087-2-ND	3,000	122.00/M	AO7405
	SC70-6	20	2	100	785-1092-1-ND	.60	9.89	32.68	785-1092-2-ND	3,000	134.00/M	AO7415
6	TO-252 (D-PAK)	30	85	6	785-1101-1-ND	1.14	22.50	81.00	785-1101-2-ND	2,500	420.00/M	AOD403
	TO-252 (D-PAK)	60	12	115	785-1102-1-ND	.73	14.20	50.10	785-1102-2-ND	2,500	242.00/M	AOD407
	TO-252 (D-PAK)	60	26	40	785-1103-1-ND	.97	18.79	66.30	785-1103-2-ND	2,500	320.00/M	AOD409
	TO-252 (D-PAK)	30	25	34	785-1106-1-ND	.59	10.40	35.64	785-1106-2-ND	2,500	167.00/M	AOD417
Dual N-Channel												
2	8-SOIC	30	6.9	27	785-1053-1-ND	.79	13.76	47.19	785-1053-2-ND	3,000	222.00/M	AO4800B
	8-SOIC	20	9.4	14	785-1056-1-ND	.95	17.85	63.00	—	—	—	AO4806
	8-SOIC	30	8.5	16	785-1059-1-ND	.76	14.62	51.60	785-1059-2-ND	3,000	249.00/M	AO4818B
	8-SOIC	30	6.8	16	785-1060-1-ND	.78	14.71	51.90	785-1060-2-ND	3,000	251.00/M	AO4822A
	8-SOIC	60	4.5	56	785-1062-1-ND	.77	13.48	46.20	785-1062-2-ND	3,000	217.00/M	AO4828
	8-SOIC	40	6	31	785-1063-1-ND	.66	12.75	45.00	785-1063-2-ND	3,000	218.00/M	AO4840
	8-SOIC	30	7.5	22	785-1064-1-ND	.72	12.51	42.90	785-1064-2-ND	3,000	202.00/M	AO4842
	8-SOIC	30	9	15.8	785-1065-1-ND	.97	18.70	66.00	785-1065-2-ND	3,000	319.00/M	AO4932
3	6-TSOP	30	3.4	60	785-1081-1-ND	.60	10.26	35.64	—	—	—	AO6800
	6-TSOP	30	3.1	75	785-1082-1-ND	.60	10.26	35.64	785-1082-2-ND	3,000	140.00/M	AO6802
10	8-TSSOP	20	7	21	785-1097-1-ND	.68	12.92	45.60	785-1097-2-ND	3,000	222.00/M	AO8820
	8-TSSOP	20	6	27	785-1099-1-ND	.82	13.97	48.51	—	—	—	AO8830
11	6-DFN	30	7.2	20	785-1134-1-ND	.92	17.43	61.50	—	—	—	AON5802A
Dual P-Channel												
2	8-SOIC	30	8	19	785-1055-1-ND	1.20	23.63	85.05	785-1055-2-ND	3,000	441.00/M	AO4805
	8-SOIC	30	6	35	785-1057-1-ND	.82	15.90	56.10	785-1057-2-ND	3,000	271.00/M	AO4807
	8-SOIC	30	7.1	25	785-1058-1-ND	1.05	20.23	71.40	785-1058-2-ND	3,000	345.00/M	AO4813
10	8-TSSOP	12	7	18	785-1095-1-ND	1.17	22.36	78.59	785-1095-2-ND	3,000	365.85/M	AO8803
N/P-Channel												
2	8-SOIC	60	4.5/3.2	56	785-1041-1-ND	.83	15.98	56.40	785-1041-2-ND	3,000	273.00/M	AO4612
	8-SOIC	30	8.1/7.1	20	785-1043-1-ND	.86	16.58	58.50	785-1043-2-ND	3,000	283.00/M	AO4616
	8-SOIC	20	7.3/5	23	785-1046-1-ND	.79	13.76	47.19	785-1046-2-ND	3,000	222.00/M	AO4622
3	6-TSOP	30	3.4/2.3	60	785-1076-1-ND	.61	10.01	33.06	—	—	—	AO6601
	6-TSOP	30	3.1/2.7	75	785-1077-1-ND	.52	9.05	31.02	785-1077-2-ND	3,000	146.00/M	AO6602
	6-TSOP	20	3.4/2.5	60	785-1078-1-ND	.52	9.14	31.35	785-1078-2-ND	3,000	147.00/M	AO6604
5	SC70-6	20	0.9/0.6	300	785-1093-1-ND	.63	10.33	33.93	785-1093-2-ND	3,000	144.00/M	AO7600
12	TO-252-5	40	8/8	33	785-1117-1-ND	.97	19.13	68.85	785-1117-2-ND	2,500	357.00/M	AOD604
13	8-PDIP	30	7.5/6.6	28	785-1140-5-ND†	.87	16.90	58.86	—	—	—	AOP605
	8-PDIP	60	4.7/3.4	56	785-1141-5-ND†	.84	16.28	56.70	—	—	—	AOP607
	8-PDIP	60	4.7/3.5	60	785-1142-5-ND†	.84	16.20	56.43	—	—	—	AOP609
	8-PDIP	30	7.7/6.2	24	785-1143-5-ND†	.86	16.74	58.32	—	—	—	AOP610

† Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Oscillators

5.0 x 7.0 x 1.7mm Packaging

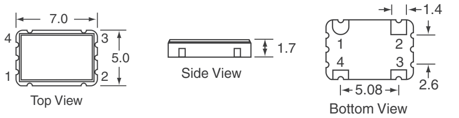

Pin Connection	
1	Tri-State
2	GND
3	Output
4	VDD

Note: Frequency stability is inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing†	ECS Part No.
		1	10	100	1,000	
ECS-3951C — 5.0V, 0°C ~ 70°C, ±100ppm						
1.843200	XC653CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-018-TR
3.686400	XC654CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-036-TR
12.000000	XC655CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-120-TR
16.000000	XC656CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-160-TR
20.000000	XC657CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-200-TR
33.000000	XC658CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-330-TR
40.000000	XC659CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-400-TR
50.000000	XC660CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-500-TR
65.000000	XC661CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-650-TR
66.666000	XC662CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-666-TR
ECS-3951M-B — 5.0V, -10°C ~ 70°C, ±50ppm						
1.843200	XC780CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-018-B-TR
3.686400	XC781CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-036-B-TR
12.000000	XC782CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-120-B-TR
16.000000	XC783CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-160-B-TR
20.000000	XC784CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-200-B-TR
33.000000	XC785CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-330-B-TR
40.000000	XC786CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-400-B-TR
50.000000	XC787CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-500-B-TR
65.000000	XC788CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-650-B-TR
66.666000	XC789CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-666-B-TR
ECS-3951M-BN Industrial Temperature — 5.0V, -40°C ~ 85°C, ±50ppm						
1.843200	XC291CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-018-BN-TR
3.579545	XC292CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-035-BN-TR
3.686400	XC293CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-036-BN-TR
4.000000	XC294CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-040-BN-TR
8.000000	XC295CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-080-BN-TR
10.000000	XC296CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-100-BN-TR
12.000000	XC297CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-120-BN-TR
16.000000	XC298CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-160-BN-TR
20.000000	XC299CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-200-BN-TR
24.000000	XC300CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-240-BN-TR
25.000000	XC321CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-250-BN-TR
32.000000	XC322CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-320-BN-TR
40.000000	XC323CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-400-BN-TR
50.000000	XC324CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-500-BN-TR
66.666000	XC325CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-666-BN-TR
80.000000	XC326CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-800-BN-TR
100.000000	XC327CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-1000-BN-TR
ECS-3951M-AU Automotive Temperature — 5.0V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1453CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-018-AU-TR
4.000000	XC1454CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-040-AU-TR
8.000000	XC1455CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-080-AU-TR
10.000000	XC1456CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-100-AU-TR
16.000000	XC1457CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-160-AU-TR
20.000000	XC1458CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-200-AU-TR
40.000000	XC1459CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-400-AU-TR
80.000000	XC1460CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-800-AU-TR
100.000000	XC1461CT-ND	6.54	5.89	4.91	3270.00	ECS-3951M-1000-AU-TR
ECS-3953C — 3.3V, 0°C ~ 70°C, ±100ppm						
20.000000	XC721CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-200-TR
24.000000	XC722CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-240-TR
25.000000	XC723CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-250-TR
32.000000	XC724CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-320-TR
40.000000	XC725CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-400-TR
50.000000	XC726CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-500-TR
66.666000	XC727CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-666-TR
80.000000	XC728CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-800-TR
ECS-3953M-B — 3.3V, -10°C ~ 70°C, ±50ppm						
1.843200	XC284CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-018-B-TR
3.686400	XC285CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-036-B-TR
4.000000	XC286CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-040-B-TR
8.000000	XC287CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-080-B-TR
10.000000	XC288CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-100-B-TR
12.000000	XC289CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-120-B-TR
16.000000	XC290CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-160-B-TR
20.000000	XC790CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-200-B-TR
24.000000	XC791CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-240-B-TR
25.000000	XC792CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-250-B-TR
32.000000	XC793CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-320-B-TR
40.000000	XC794CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-400-B-TR
48.000000	XC1016CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-480-B-TR
50.000000	XC795CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-500-B-TR
66.666000	XC796CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-666-B-TR
80.000000	XC797CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-800-B-TR
ECS-3953M-BN Industrial Temperature — 3.3V, -40°C ~ 85°C, ±50ppm						
1.843200	XC329CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-018-BN-TR
3.579545	XC330CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-035-BN-TR
3.686400	XC331CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-036-BN-TR
4.000000	XC332CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-040-BN-TR
8.000000	XC333CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-080-BN-TR
10.000000	XC334CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-100-BN-TR
12.000000	XC335CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-120-BN-TR
16.000000	XC336CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-160-BN-TR
20.000000	XC337CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-200-BN-TR
24.000000	XC338CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-240-BN-TR
25.000000	XC339CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-250-BN-TR
32.000000	XC340CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-320-BN-TR
40.000000	XC341CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-400-BN-TR
50.000000	XC342CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-500-BN-TR
66.666000	XC343CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-666-BN-TR
80.000000	XC344CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-800-BN-TR
100.000000	XC345CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-1000-BN-TR
125.000000	XC346CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-1250-BN-TR
ECS-3953M-AU Automotive Temperature — 3.3V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1442CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-018-AU-TR
4.000000	XC1443CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-040-AU-TR
8.000000	XC1444CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-080-AU-TR
10.000000	XC1445CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-100-AU-TR
16.000000	XC1446CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-160-AU-TR
20.000000	XC1447CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-200-AU-TR
24.000000	XC1448CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-240-AU-TR
40.000000	XC1449CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-400-AU-TR
80.000000	XC1450CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-800-AU-TR
100.000000	XC1451CT-ND	6.54	5.89	4.91	3270.00	ECS-3953M-1000-AU-TR
125.000000	XC1452CT-ND	7.68	6.92	5.76	3840.00	ECS-3953M-1250-AU-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

Subminiature Clock Oscillators

Fig. 1 — ECS-2532HS

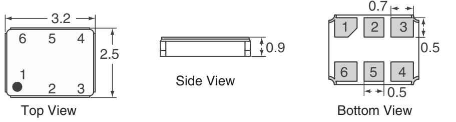

Pin Connection	
1	Tri-State
2	No Connect
3	Ground
4	Output
5	No Connect
6	VDD

Fig. 2

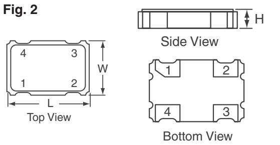

Pin Connection	
1	Tri-State
2	Ground
3	Output
4	VCC

Dimensions	L	W	H
ECS-3963	5.0	3.2	1.0
ECS-3525	5.0	3.2	1.3
ECS-3518	5.0	3.2	1.3
ECS-2033	2.5	2.0	0.9
ECS-2018	2.5	2.0	0.9

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
			1	10	100	Qty.	Pricing	
ECS-2532HS High Stability — 3.3V, -30°C ~ 85°C, ±10ppm								
1	20.000000	XC1476CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-200-3-G
	22.118400	XC1477CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-221-3-G
	24.000000	XC1478CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-240-3-G
	26.000000	XC1479CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-260-3-G
	27.000000	XC1480CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-270-3-G
	32.000000	XC1481CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-320-3-G
	40.000000	XC1482CT-ND	16.20	14.58	12.15	500	4050.00	ECS-2532HS-400-3-G
ECS-3963-BN Industrial Temperature — 3.0V, -40°C ~ 85°C, ±50ppm								
2	4.00000	XC1028CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-040-BN-TR
	8.00000	XC1029CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-080-BN-TR
	10.00000	XC1030CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-100-BN-TR
	12.00000	XC1031CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-120-BN-TR
	14.31818	XC1032CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-143-BN-TR
	20.00000	XC1033CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-200-BN-TR
	24.00000	XC1034CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-240-BN-TR
	25.00000	XC1035CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-250-BN-TR
	27.00000	XC1655CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-270-BN-TR
	32.00000	XC1036CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-320-BN-TR
	33.33300	XC1037CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-333-BN-TR
	40.00000	XC1038CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-400-BN-TR
	48.00000	XC1039CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-480-BN-TR
	50.00000	XC1040CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-500-BN-TR
	60.00000	XC1041CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-600-BN-TR
	66.66600	XC1043CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-666-BN-TR
	80.00000	XC1044CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-800-BN-TR
	100.00000	XC1045CT-ND	5.97	5.38	4.48	1,000	2985.00	ECS-3963-1000-BN-TR
	125.00000	XC1046CT-ND	8.07	7.27	6.06	1,000	4035.00	ECS-3963-1250-BN-TR
ECS-3525-B — 2.5V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1047CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-040-B-TR
	8.00000	XC1048CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-080-B-TR
	10.00000	XC1049CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-100-B-TR
	12.00000	XC1050CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-120-B-TR
	14.31818	XC1051CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-143-B-TR
	20.00000	XC1052CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-200-B-TR
	24.00000	XC1053CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-240-B-TR
	25.00000	XC1054CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-250-B-TR
	32.00000	XC1055CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-320-B-TR
	33.33300	XC1056CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-333-B-TR
	40.00000	XC1057CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-400-B-TR
	48.00000	XC1058CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-480-B-TR
	50.00000	XC1059CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-500-B-TR
	60.00000	XC1060CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-600-B-TR
	64.00000	XC1061CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-640-B-TR
	66.66600	XC1062CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-666-B-TR
	80.00000	XC1063CT-ND	3.27	2.95	2.46	1,000	1950.00	ECS-3525-800-B-TR
	100.00000	XC1064CT-ND	5.97	5.38	4.48	1,000	2985.00	ECS-3525-1000-B-TR
	125.00000	XC1065CT-ND	8.07	7.27	6.06	1,000	4035.00	ECS-3525-1250-B-TR
ECS-3518-B — 1.8V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1066CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-040-B-TR
	8.00000	XC1067CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-080-B-TR
	10.00000	XC1068CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-100-B-TR
	12.00000	XC1069CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-120-B-TR
	14.31818	XC1070CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-143-B-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Surface Mount Oscillators

Subminiature Clock Oscillators *(Cont.)*

RoHS COMPLIANT

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
			1	10	100	Qty.	Pricing	
2	20.00000	XC1071CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-200-B-TR
	24.00000	XC1072CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-240-B-TR
	32.00000	XC1074CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-320-B-TR
	33.33300	XC1075CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-333-B-TR
	40.00000	XC1076CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-400-B-TR
	48.00000	XC1077CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-480-B-TR
	50.00000	XC1078CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-500-B-TR
	60.00000	XC1079CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-600-B-TR
	64.00000	XC1080CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-640-B-TR
	66.66600	XC1081CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-666-B-TR
	80.00000	XC1082CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-800-B-TR
	100.00000	XC1083CT-ND	6.57	5.92	4.93	1,000	3285.00	ECS-3518-1000-B-TR
	125.00000	XC1084CT-ND	7.47	6.73	5.61	1,000	3735.00	ECS-3518-1250-B-TR
ECS-2033-BN Industrial Temperature — 3.3V, -40°C ~ 85°C, ±50ppm								
2	3.579545	XC1419CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-035-BN
	3.686400	XC1420CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-036-BN
	4.000000	XC1421CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-040-BN
	6.000000	XC1422CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-060-BN
	7.372800	XC1423CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-073-BN
	8.000000	XC1424CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-080-BN
	10.000000	XC1425CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-100-BN
	12.000000	XC1426CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-120-BN
	13.000000	XC1427CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-130-BN
	14.318180	XC1428CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-143-BN
	14.745600	XC1429CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-147.4-BN
	16.000000	XC1430CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-160-BN
	20.000000	XC1431CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-200-BN
	24.000000	XC1432CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-240-BN
	25.000000	XC1433CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-250-BN
	27.000000	XC1434CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-270-BN
	30.000000	XC1435CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-300-BN
	32.000000	XC1436CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-320-BN
	40.000000	XC1437CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-400-BN
	48.000000	XC1438CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-480-BN
	50.000000	XC1439CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-500-BN
ECS-2018-BN Industrial Temperature — 1.8V, -40°C ~ 85°C, ±50ppm								
2	3.579545	XC1396CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-035-BN
	3.686400	XC1397CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-036-BN
	4.000000	XC1398CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-040-BN
	6.000000	XC1399CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-060-BN
	7.372800	XC1400CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-073-BN
	8.000000	XC1401CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-080-BN
	10.000000	XC1402CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-100-BN
	12.000000	XC1403CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-120-BN
	13.000000	XC1404CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-130-BN
	14.318180	XC1405CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-143-BN
	14.745600	XC1406CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-147.4-BN
	16.000000	XC1407CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-160-BN
	20.000000	XC1408CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-200-BN
	24.000000	XC1409CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-240-BN
	25.000000	XC1410CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-250-BN
	27.000000	XC1411CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-270-BN
	30.000000	XC1412CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-300-BN
	32.000000	XC1413CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-320-BN
	40.000000	XC1414CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-400-BN
	48.000000	XC1415CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-480-BN
	50.000000	XC1416CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-500-BN

† For Tape and Reel part number, change CT-ND to TR-ND.

LVDS, LVPECL, Spread Spectrum and Thermoplastic

Fig. 1

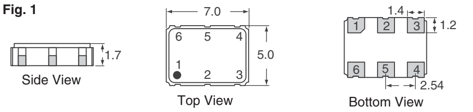

Pin Connection	
1	Tri-State
2	NC
3	Ground
4	Output
5	Comp. Output
6	VDD

Fig. 2

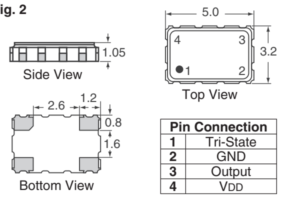

Pin Connection	
1	Tri-State
2	GND
3	Output
4	VDD

Fig. 3

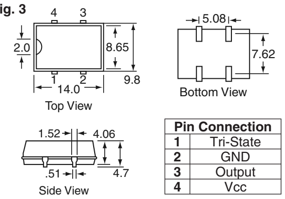

Pin Connection	
1	Tri-State
2	GND
3	Output
4	Vcc

Note: *Frequency stability inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.*

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
			1	10	100	Qty.	Pricing	
ECS-LVDS25-A — 2.5V, 0°C ~ 70°C, ±100ppm — RoHS Compliant								
1	100.000000	XC1466CT-ND	21.72	19.55	16.29	500	5430.00	ECS-LVDS25-1000-A
	106.250000	XC1467CT-ND	21.72	19.55	16.29	500	5430.00	ECS-LVDS25-1062.5A
	125.000000	XC1468CT-ND	22.08	19.88	16.56	500	5520.00	ECS-LVDS25-1250-A
	156.250000	XC1469CT-ND	27.63	24.87	20.73	500	6907.50	ECS-LVDS25-1562.5-A
	200.000000	XC1470CT-ND	27.63	24.87	20.73	500	6907.50	ECS-LVDS25-2000-A
ECS-PEC25-B-N — 2.5V, -40°C ~ 85°C, ±50ppm — RoHS Compliant								
1	100.000000	XC1471CT-ND	21.18	19.07	15.89	500	5295.00	ECS-PEC25-1000-B-N
	106.250000	XC1472CT-ND	21.18	19.07	15.89	500	5295.00	ECS-PEC25-1062.5-B-N
	125.000000	XC1473CT-ND	21.72	19.55	16.29	500	5430.00	ECS-PEC25-1250-B-N
1	155.520000	XC1474CT-ND	27.27	24.55	20.46	500	6817.50	ECS-PEC25-1555.2-B-N
	156.250000	XC1475CT-ND	27.27	24.55	20.46	500	6817.50	ECS-PEC25-1562.5-B-N
ECS3250SS Spread Spectrum — 3.3V, -10°C ~ 70°C, ±50ppm — RoHS Compliant								
2	27.000000	XC1484CT-ND	15.12	13.61	11.34	500	3780.00	ECS-3250SS-270-3B
	40.000000	XC1485CT-ND	16.20	14.58	12.15	500	4050.00	ECS-3250SS-400-3B
	54.000000	XC1486CT-ND	16.20	14.58	12.15	500	4050.00	ECS-3250SS-540-3B
ECS-8FA3X — 3.3V, -10°C ~ 70°C, ±100ppm — RoHS Compliant								
3	2.048000	XC1635CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-020.48-TR
	3.686400	XC1636CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-036-TR
	8.192000	XC1637CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-081.92-TR
	9.830400	XC1638CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-098.3-TR
	10.000000	XC1639CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-100-TR
	11.059200	XC1640CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-110.5-TR
	11.289600	XC1641CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-112.896-TR
	12.000000	XC1642CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-120-TR
	12.288000	XC1643CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-122.8-TR
	14.318180	XC1644CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-143-TR
	16.000000	XC1645CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-160-TR
	16.384000	XC1646CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-163-TR
	18.432000	XC1647CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-184-TR
	20.000000	XC1648CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-200-TR
	24.576000	XC1649CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-245.7-TR
	25.000000	XC1650CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-250-TR
	27.000000	XC1651CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-270-TR
	40.000000	XC1652CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-400-TR
	48.000000	XC1653CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-480-TR
	50.000000	XC1654CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FA3X-500-TR
ECS-8FM — 5.0V, -10°C ~ 70°C, ±100ppm								
3	1.000000	XC703CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-010-TR
	1.843200	XC704CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-018-TR
	2.000000	XC705CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-020-TR
	2.457600	XC706CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-024-TR
	3.579545	XC707CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-035-TR
	3.686400	XC708CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-036-TR
	4.000000	XC635CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-040-TR
	4.915200	XC636CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-049-TR
	6.000000	XC637CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-060-TR
	7.372800	XC709CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-073-TR
	8.000000	XC638CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-080-TR
	9.830400	XC710CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-098.3-TR
	10.000000	XC639CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-100-TR
	11.059200	XC711CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-110.5-TR
	12.000000	XC640CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-120-TR
	12.288000	XC712CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-122.8-TR
	14.318180	XC641CT-ND	2.62	2.19	1.75	1,000	1326.00	ECS-8FM-143-TR
	16.000000	XC642CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-160-TR
	18.432000	XC643CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-184-TR
	19.660800	XC713CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-196.6-TR
	20.000000	XC644CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-200-TR
	24.000000	XC645CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-240-TR
	25.000000	XC714CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-250-TR
	25.175000	XC646CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-251.7-TR
	28.322000	XC647CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-283.2-TR
	32.000000	XC648CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-320-TR
	32.514000	XC649CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-325.1-TR
	40.000000	XC650CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-400-TR
	48.000000	XC651CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-480-TR
	50.000000	XC652CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-500-TR
	66.666000	XC715CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-666-TR
ECS-8FMX — 5.0V, -10°C ~ 70°C, ±100ppm — RoHS Compliant								
3	1.000000	XC1342CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-010-TR
	1.544000	XC1619CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-015.44-TR
	1.843200	XC1343CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-018-TR
	2.000000	XC1344CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-020-TR
	2.048000	XC1620CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-020.48-TR
	2.457600	XC1345CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-024-TR
	3.579545	XC1346CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-035-TR
	3.686400	XC1347CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-036-TR
	4.000000	XC1328CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-040-TR
	4.096000	XC1621CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-041-TR
	4.915200	XC1329CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-049-TR
	5.000000	XC1622CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-050-TR
	6.000000	XC1330CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-060-TR
	7.372800	XC1348CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-073-TR
	8.000000	XC1331CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-080-TR
	9.830400	XC1349CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-098.3-TR
	10.000000	XC1332CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-100-TR
	11.059200	XC1350CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-110.5-TR
	12.000000	XC1623CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-120-TR
	12.288000	XC1351CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-122.8-TR
	14.745600	XC1624CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-147.4-TR
	16.000000	XC1334CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-160-TR
	18.432000	XC1625CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-184-TR
	19.660800	XC1352CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-196.6-TR
	20.000000	XC1335CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-200-TR
	22.118400	XC1626CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-221-TR
	24.000000	XC1336CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-240-TR
	24.576000	XC1627CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-245.7-TR
	25.000000	XC1353CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-250-TR
	25.175000	XC1337CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-251.7-TR
	27.000000	XC1628CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-270-TR
	28.322000	XC1629CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-283.2-TR
	30.000000	XC1630CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-300-TR
	32.000000	XC1338CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-320-TR
	32.768000	XC1632CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-327.6-TR
	33.000000	XC1631CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-330-TR
	40.000000	XC1339CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-400-TR
	40.000000	XC1633CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-400-B-TR
	48.000000	XC1340CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-480-TR
	49.152000	XC1634CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-491.5-TR
	50.000000	XC1341CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-500-TR
	66.666000	XC1354CT-ND	2.97	2.48	1.98	—	—	ECS-8FMX-666-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

ECS INC. INTERNATIONAL

VC-TCXO and VCXO Oscillators

Digi-Reel®

Fig.	Freq-uency (MHz)	Supply Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
VC-TCXOs, -40°C ~ 85°C, ±2.5ppm									
1	13.00	3.0	X490CT-ND	15.13	12.38	11.00	—	—	VC-TXO-39SM-130-TR
	16.80	3.0	X491CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-168-TR
	19.44	3.0	X492CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-194.4-TR
	10.00	3.0	X1126CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-100-TR
	12.80	3.0	X1127CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-128-TR
	13.00	3.0	X1128CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-130-TR
	16.80	3.0	X1129CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-168-TR
	19.44	3.0	X1130CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-194.4-TR
2	12.00	3.0	XC1018CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-120-B-TR
	12.80	3.0	XC348CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-128-B-TR
	13.00	3.0	XC1019CT-ND◆	17.85	16.07	13.39	1,000	8925.00	VC-TXO-35SM-130-B-TR
	14.40	3.0	XC1020CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-144-B-TR
	16.80	3.0	XC349CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-168-B-TR
	19.20	3.0	XC1021CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-192-B-TR
	19.44	3.0	XC350CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-194-B-TR
3	10.00	3.0	XC1618CT-ND◆	9.57	8.62	7.18	1,000	4785.00	VC-TXO-23SM-100-B
	19.20	3.0	XC1462CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-192-B
	20.00	3.0	XC1464CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-200-B
	26.00	3.0	XC1465CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-260-B
VCXOs, -40°C ~ 85°C, ±50ppm — RoHS Compliant									
4	19.44	3.3	XC1110CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-19.440-TR
	27.00	3.3	XC1112CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-27.00-TR
	32.77	3.3	XC1113CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-32.768-TR
	40.00	3.3	XC1115CT-ND	4.77	4.30	3.58	1,000	2385.00	ECS-VXO-73-40.00-TR
5	27.00	2.8	XC1487CT-ND	27.63	24.87	20.73	500	6907.50	ECS-2532VXO-270B-2.8
	54.00	2.8	XC1488CT-ND	27.63	24.87	20.73	500	6907.50	ECS-2532VXO-540B-2.8

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

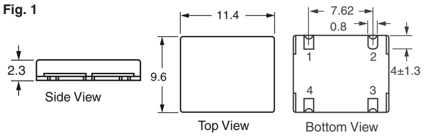

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	Vcc

Fig. 2

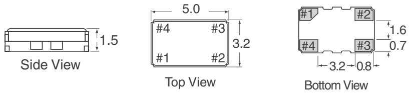

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	Vcc

Fig. 3

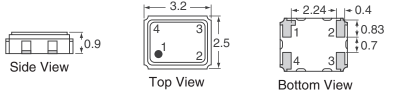

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	VDC

Fig. 4

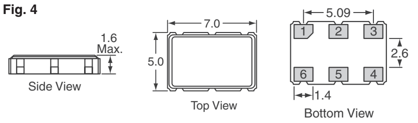

Pin Connection	
1	V Control
2	Tri-State
3	Ground
4	Output
5	NC
6	Vcc

Fig. 5

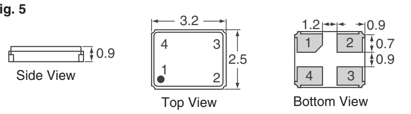

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	VDD

Thru-Hole Oscillators

Fig. 1

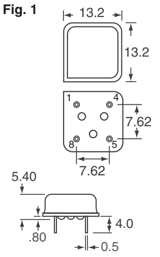

A

Pin Connection	
1	Tri-State
4	Case Ground
5	Output
8	5VDC

B

Pin Connection	
1	NC
4	Ground
5	Output
8	5VDC

Fig. 2

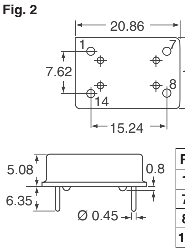

Pin Connection	
1	NC
7	Case Ground
8	Output
14	5VDC

Fig. 3

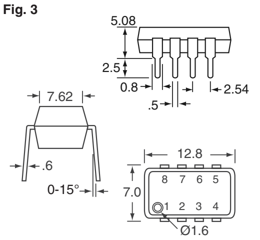

Pin Connection	
1	Output
2	Dividing Ratio
3	Standby
4	GND
5	A (Programming)
6	B (Programming)
7	C (Programming)
8	VDD (5V)

SETTING OF DIVIDING OUTPUT

Input Select C	B	A	ST	Output F (Original Frequency)	D (Divided Waveform)
X	X	X	L	L	L
L	L	L	H	fo clock	fo 1/2 clock
L	L	H	H	fo clock	fo $1/2^2$clock
L	H	L	H	fo clock	fo $1/2^3$clock
L	H	H	H	fo clock	fo $1/2^4$clock
H	L	L	H	fo clock	fo $1/2^5$clock
H	L	H	H	fo clock	fo $1/2^6$clock
H	H	L	H	fo clock	fo $1/2^7$clock
H	H	H	H	fo clock	fo $1/2^8$clock

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-2200B Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±50ppm							
1A	4.00000	XC259-ND	2.63	2.37	1.89	1.68	ECS-2200B-040
	4.91520	XC260-ND	2.63	2.37	1.89	1.68	ECS-2200B-049
	6.00000	XC261-ND	2.63	2.37	1.89	1.68	ECS-2200B-060
	6.14400	XC262-ND	2.63	2.37	1.89	1.68	ECS-2200B-061
	7.37280	XC263-ND	2.63	2.37	1.89	1.68	ECS-2200B-073
	8.00000	XC264-ND	2.63	2.37	1.89	1.68	ECS-2200B-080
	9.21600	XC265-ND	2.63	2.37	1.89	1.68	ECS-2200B-092.1
	9.83040	XC266-ND	2.63	2.37	1.89	1.68	ECS-2200B-098
	10.00000	XC267-ND	2.63	2.37	1.89	1.68	ECS-2200B-100
	11.05920	XC268-ND	2.63	2.37	1.89	1.68	ECS-2200B-110.5
	12.00000	XC269-ND	2.63	2.37	1.89	1.68	ECS-2200B-120
	14.31818	XC270-ND	2.63	2.37	1.89	1.68	ECS-2200B-143
	16.00000	XC271-ND	2.63	2.37	1.89	1.68	ECS-2200B-160
	18.43200	XC272-ND	2.63	2.37	1.89	1.68	ECS-2200B-184
	19.66080	XC273-ND	2.63	2.37	1.89	1.68	ECS-2200B-196
	20.00000	XC274-ND	2.63	2.37	1.89	1.68	ECS-2200B-200
	24.00000	XC275-ND	2.63	2.37	1.89	1.68	ECS-2200B-240
	25.00000	XC276-ND	2.63	2.37	1.89	1.68	ECS-2200B-250
	28.32200	XC277-ND	2.63	2.37	1.89	1.68	ECS-2200B-283
	32.00000	XC278-ND	2.63	2.37	1.89	1.68	ECS-2200B-320
	40.00000	XC279-ND	2.63	2.37	1.89	1.68	ECS-2200B-400
	48.00000	XC280-ND	2.63	2.37	1.89	1.68	ECS-2200B-480
	50.00000	XC281-ND	2.63	2.37	1.89	1.68	ECS-2200B-500
	66.66600	XC282-ND	2.63	2.37	1.89	1.68	ECS-2200B-666
	80.00000	XC283-ND	2.63	2.37	1.89	1.68	ECS-2200B-800
ECS-2200BX Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±50ppm — RoHS Compliant							
1A	4.00000	XC1178-ND	2.63	2.37	1.89	1.68	ECS-2200BX-040
	4.91520	XC1179-ND	2.63	2.37	1.89	1.68	ECS-2200BX-049
	6.00000	XC1180-ND	2.63	2.37	1.89	1.68	ECS-2200BX-060
	7.37280	XC1181-ND	2.63	2.37	1.89	1.68	ECS-2200BX-073
	8.00000	XC1182-ND	2.63	2.37	1.89	1.68	ECS-2200BX-080
	9.83040	XC1183-ND	2.63	2.37	1.89	1.68	ECS-2200BX-098
	10.00000	XC1184-ND	2.63	2.37	1.89	1.68	ECS-2200BX-100
	11.05920	XC1185-ND	2.63	2.37	1.89	1.68	ECS-2200BX-110.5
	16.00000	XC1186-ND	2.63	2.37	1.89	1.68	ECS-2200BX-160
	19.66080	XC1187-ND	2.63	2.37	1.89	1.68	ECS-2200BX-196

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1A	20.00000	XC1188-ND	2.63	2.37	1.89	1.68	ECS-2200BX-200
	24.00000	XC1189-ND	2.63	2.37	1.89	1.68	ECS-2200BX-240
	32.00000	XC1190-ND	2.63	2.37	1.89	1.68	ECS-2200BX-320
	40.00000	XC1191-ND	2.63	2.37	1.89	1.68	ECS-2200BX-400
	48.00000	XC1192-ND	2.63	2.37	1.89	1.68	ECS-2200BX-480
	50.00000	XC1193-ND	2.63	2.37	1.89	1.68	ECS-2200BX-500
	80.00000	XC1194-ND	2.63	2.37	1.89	1.68	ECS-2200BX-800
ECS-2100A Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm							
1B	1.000000	XC229-ND	2.13	1.92	1.53	1.36	ECS-2100A-010
	1.228800	XC230-ND	2.13	1.92	1.53	1.36	ECS-2100A-012.2
	1.843200	XC231-ND	2.13	1.92	1.53	1.36	ECS-2100A-018
	2.000000	XC232-ND	2.13	1.92	1.53	1.36	ECS-2100A-020
	2.457600	XC233-ND	2.13	1.92	1.53	1.36	ECS-2100A-024
	3.579545	XC235-ND	2.13	1.92	1.53	1.36	ECS-2100A-035
	3.686400	XC234-ND	2.13	1.92	1.53	1.36	ECS-2100A-036
	4.000000	X202-ND	2.13	1.92	1.53	1.36	ECS-2100A-040
	4.915200	XC236-ND	2.13	1.92	1.53	1.36	ECS-2100A-049
	5.000000	XC237-ND	2.13	1.92	1.53	1.36	ECS-2100A-050
	5.068800	XC238-ND	2.13	1.92	1.53	1.36	ECS-2100A-051
	6.000000	XC239-ND	2.13	1.92	1.53	1.36	ECS-2100A-060
	6.144000	XC240-ND	2.13	1.92	1.53	1.36	ECS-2100A-061
	7.372800	X208-ND	2.13	1.92	1.53	1.36	ECS-2100A-073.2
	8.000000	X209-ND	2.13	1.92	1.53	1.36	ECS-2100A-080
	9.216000	XC241-ND	2.13	1.92	1.53	1.36	ECS-2100A-092.1
	10.000000	XC243-ND	2.13	1.92	1.53	1.36	ECS-2100A-100
	11.059200	XC244-ND	2.13	1.92	1.53	1.36	ECS-2100A-110.5
	12.000000	XC245-ND	2.13	1.92	1.53	1.36	ECS-2100A-120
	14.318180	XC246-ND	2.13	1.92	1.53	1.36	ECS-2100A-143
	14.745600	XC247-ND	2.13	1.92	1.53	1.36	ECS-2100A-147.4
	16.000000	X216-ND	2.13	1.92	1.53	1.36	ECS-2100A-160
	16.257000	XC248-ND	2.13	1.92	1.53	1.36	ECS-2100A-162.5
	18.000000	XC249-ND	2.13	1.92	1.53	1.36	ECS-2100A-180

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ECS INC. INTERNATIONAL Thru-Hole Oscillators *(Cont.)*

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1B	18.432000	XC250-ND	2.13	1.92	1.53	1.36	ECS-2100A-184
	19.660800	XC251-ND	2.13	1.92	1.53	1.36	ECS-2100A-196.6
	20.000000	X220-ND	2.13	1.92	1.53	1.36	ECS-2100A-200
	24.000000	X221-ND	2.13	1.92	1.53	1.36	ECS-2100A-240
	25.000000	XC252-ND	2.13	1.92	1.53	1.36	ECS-2100A-250
	25.175000	X222-ND	2.13	1.92	1.53	1.36	ECS-2100A-251.7
	28.322000	X223-ND	2.13	1.92	1.53	1.36	ECS-2100A-283.2
	30.000000	XC253-ND	2.13	1.92	1.53	1.36	ECS-2100A-300
	32.000000	XC254-ND	2.13	1.92	1.53	1.36	ECS-2100A-320
	32.514000	X224-ND	2.13	1.92	1.53	1.36	ECS-2100A-325.1
	35.000000	XC255-ND	2.13	1.92	1.53	1.36	ECS-2100A-350
	40.000000	X225-ND	2.13	1.92	1.53	1.36	ECS-2100A-400
	48.000000	XC256-ND	2.13	1.92	1.53	1.36	ECS-2100A-480
	50.000000	X226-ND	2.13	1.92	1.53	1.36	ECS-2100A-500
	64.000000	XC257-ND	2.13	1.92	1.53	1.36	ECS-2100A-640
	66.666000	XC258-ND	2.13	1.92	1.53	1.36	ECS-2100A-666
ECS-2100AX Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm — RoHS Compliant							
1B	3.686400	XC1158-ND	2.13	1.92	1.53	1.36	ECS-2100AX-036
	4.000000	X960-ND	2.13	1.92	1.53	1.36	ECS-2100AX-040
	4.915200	XC1159-ND	2.13	1.92	1.53	1.36	ECS-2100AX-049
	7.372800	X961-ND	2.13	1.92	1.53	1.36	ECS-2100AX-073.7
	8.000000	X962-ND	2.13	1.92	1.53	1.36	ECS-2100AX-080
	9.216000	XC1160-ND	2.13	1.92	1.53	1.36	ECS-2100AX-092.1
	9.830400	XC1161-ND	2.13	1.92	1.53	1.36	ECS-2100AX-098.3
	10.000000	XC1162-ND	2.13	1.92	1.53	1.36	ECS-2100AX-100
	11.059200	XC1163-ND	2.13	1.92	1.53	1.36	ECS-2100AX-110.5
	12.000000	XC1164-ND	2.13	1.92	1.53	1.36	ECS-2100AX-120
	14.745600	XC1165-ND	2.13	1.92	1.53	1.36	ECS-2100AX-147.4
	16.000000	X963-ND	2.13	1.92	1.53	1.36	ECS-2100AX-160
	18.432000	XC1166-ND	2.13	1.92	1.53	1.36	ECS-2100AX-184
	19.660800	XC1167-ND	2.13	1.92	1.53	1.36	ECS-2100AX-196.6
	20.000000	X964-ND	2.13	1.92	1.53	1.36	ECS-2100AX-200
	28.322000	X965-ND	2.13	1.92	1.53	1.36	ECS-2100AX-283.2
	30.000000	XC1168-ND	2.13	1.92	1.53	1.36	ECS-2100AX-300
	40.000000	X966-ND	2.13	1.92	1.53	1.36	ECS-2100AX-400
	48.000000	XC1169-ND	2.13	1.92	1.53	1.36	ECS-2100AX-480
	50.000000	X967-ND	2.13	1.92	1.53	1.36	ECS-2100AX-500
ECS-100A Full Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm							
2	1.000000	X101-ND	1.88	1.69	1.35	1.20	ECS-100A-010
	1.228800	X102-ND	1.88	1.69	1.35	1.20	ECS-100A-012.2
	1.843200	X103-ND	1.88	1.69	1.35	1.20	ECS-100A-018
	2.000000	X104-ND	1.88	1.69	1.35	1.20	ECS-100A-020
	2.457600	X105-ND	1.88	1.69	1.35	1.20	ECS-100A-024
	3.579545	XC227-ND	1.88	1.69	1.35	1.20	ECS-100A-035
	3.686400	X106-ND	1.88	1.69	1.35	1.20	ECS-100A-036
	4.000000	X107-ND	1.88	1.69	1.35	1.20	ECS-100A-040
	4.915200	X108-ND	1.88	1.69	1.35	1.20	ECS-100A-049
	5.000000	X109-ND	1.88	1.69	1.35	1.20	ECS-100A-050
	5.068800	X110-ND	1.88	1.69	1.35	1.20	ECS-100A-051
	6.000000	X111-ND	1.88	1.69	1.35	1.20	ECS-100A-060
	6.144000	X122-ND	1.88	1.69	1.35	1.20	ECS-100A-061
	7.372800	X123-ND	1.88	1.69	1.35	1.20	ECS-100A-073
	8.000000	X112-ND	1.88	1.69	1.35	1.20	ECS-100A-080
	9.216000	X113-ND	1.88	1.69	1.35	1.20	ECS-100A-092.1
	9.830400	X124-ND	1.88	1.69	1.35	1.20	ECS-100A-098.3
	10.000000	X114-ND	1.88	1.69	1.35	1.20	ECS-100A-100
	11.059200	X125-ND	1.88	1.69	1.35	1.20	ECS-100A-110.5
	12.000000	X126-ND	1.88	1.69	1.35	1.20	ECS-100A-120
	14.318180	X115-ND	1.88	1.69	1.35	1.20	ECS-100A-143
	14.745600	X127-ND	1.88	1.69	1.35	1.20	ECS-100A-147.4
	16.000000	X116-ND	1.88	1.69	1.35	1.20	ECS-100A-160
	16.257000	X128-ND	1.88	1.69	1.35	1.20	ECS-100A-162.5
	18.000000	X117-ND	1.88	1.69	1.35	1.20	ECS-100A-180
	18.432000	X118-ND	1.88	1.69	1.35	1.20	ECS-100A-184
	19.660800	XC314-ND	1.88	1.69	1.35	1.20	ECS-100A-196.6
	20.000000	X119-ND	1.88	1.69	1.35	1.20	ECS-100A-200
	24.000000	X129-ND	1.88	1.69	1.35	1.20	ECS-100A-240
	25.000000	XC315-ND	1.88	1.69	1.35	1.20	ECS-100A-250
	25.175000	X130-ND	1.88	1.69	1.35	1.20	ECS-100A-251.7
	28.322000	X131-ND	1.88	1.69	1.35	1.20	ECS-100A-283.2
	30.000000	XC316-ND	1.88	1.69	1.35	1.20	ECS-100A-300
	32.000000	X132-ND	1.88	1.69	1.35	1.20	ECS-100A-320
	32.514000	X133-ND	1.88	1.69	1.35	1.20	ECS-100A-325.1
	35.000000	X134-ND	1.88	1.69	1.35	1.20	ECS-100A-350
	40.000000	X120-ND	1.88	1.69	1.35	1.20	ECS-100A-400
	48.000000	X135-ND	1.88	1.69	1.35	1.20	ECS-100A-480
	50.000000	X121-ND	1.88	1.69	1.35	1.20	ECS-100A-500
	64.000000	X136-ND	1.88	1.69	1.35	1.20	ECS-100A-640
	66.666000	XC228-ND	1.88	1.69	1.35	1.20	ECS-100A-666
ECS-100AX Full Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm — RoHS Compliant							
2	1.000000	X937-ND	1.88	1.69	1.35	1.20	ECS-100AX-010
	1.228800	X938-ND	1.88	1.69	1.35	1.20	ECS-100AX-012.2
	1.843200	X939-ND	1.88	1.69	1.35	1.20	ECS-100AX-018
	2.000000	X940-ND	1.88	1.69	1.35	1.20	ECS-100AX-020
	3.579545	XC1154-ND	1.88	1.69	1.35	1.20	ECS-100AX-035
	3.686400	X941-ND	1.88	1.69	1.35	1.20	ECS-100AX-036
	4.000000	X942-ND	1.88	1.69	1.35	1.20	ECS-100AX-040
	6.000000	X943-ND	1.88	1.69	1.35	1.20	ECS-100AX-060
	6.144000	X952-ND	1.88	1.69	1.35	1.20	ECS-100AX-061
	7.372800	X953-ND	1.88	1.69	1.35	1.20	ECS-100AX-073
	8.000000	X944-ND	1.88	1.69	1.35	1.20	ECS-100AX-080
	9.830400	X954-ND	1.88	1.69	1.35	1.20	ECS-100AX-098.3
	10.000000	X945-ND	1.88	1.69	1.35	1.20	ECS-100AX-100
	11.059200	X955-ND	1.88	1.69	1.35	1.20	ECS-100AX-110.5
	14.318180	X946-ND	1.88	1.69	1.35	1.20	ECS-100AX-143
	14.745600	X956-ND	1.88	1.69	1.35	1.20	ECS-100AX-147.4
	16.000000	X947-ND	1.88	1.69	1.35	1.20	ECS-100AX-160
	18.432000	X948-ND	1.88	1.69	1.35	1.20	ECS-100AX-184
	19.660800	XC1155-ND	1.88	1.69	1.35	1.20	ECS-100AX-196.6
	20.000000	X949-ND	1.88	1.69	1.35	1.20	ECS-100AX-200
	25.000000	XC1156-ND	1.88	1.69	1.35	1.20	ECS-100AX-250
	30.000000	XC1157-ND	1.88	1.69	1.35	1.20	ECS-100AX-300
	32.000000	X957-ND	1.88	1.69	1.35	1.20	ECS-100AX-320
	40.000000	X950-ND	1.88	1.69	1.35	1.20	ECS-100AX-400
	48.000000	X958-ND	1.88	1.69	1.35	1.20	ECS-100AX-480
	50.000000	X951-ND	1.88	1.69	1.35	1.20	ECS-100AX-500
	64.000000	X959-ND	1.88	1.69	1.35	1.20	ECS-100AX-640
ECS-300C Dual Output Oscillators, 5.0V, -10°C ~ 70°C, ±100ppm							
3	12.000000	XC301-ND	5.35	4.46	3.57	2.88	ECS-300C-120
	12.800000	XC303-ND	5.35	4.46	3.57	2.88	ECS-300C-128
	14.318180	XC304-ND	5.35	4.46	3.57	2.88	ECS-300C-143
	18.432000	XC310-ND	5.35	4.46	3.57	2.88	ECS-300C-184
	20.000000	XC312-ND	5.35	4.46	3.57	2.88	ECS-300C-200
ECS-300CX Dual Output Oscillators, 5.0V, -10°C ~ 70°C, ±100ppm — RoHS Compliant							
3	12.000000	XC1170-ND	5.35	4.46	3.57	2.88	ECS-300CX-120
	12.800000	XC1171-ND	5.35	4.46	3.57	2.88	ECS-300CX-128

A463-ND	Aries Electronics Inc.	Half Size 4-Pin Oscillator Sockets......	**$1.15/1**	**$17.25/25**	**$54.05/100**
A462-ND	Aries Electronics Inc.	Full Size 4-Pin Oscillator Sockets.......	**$1.15/1**	**$17.25/25**	**$54.05/100**

Quartz Crystals

CSM-7X-3L Series

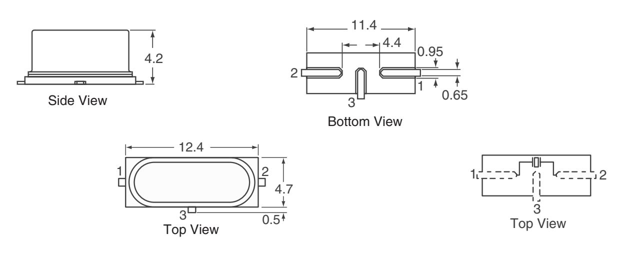

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
CSM-7X-3L-DS Extended Temperature, -40°C ~ 125°C, Case Ground							
3.579545	18pF	XC1490CT-ND	1.05	.95	.79	525.00	ECS-35-18-5G3XDS-TR
3.686400	20pF	XC1491CT-ND	1.05	.95	.79	525.00	ECS-36-20-5G3XDS-TR
4.000000	20pF	XC1492CT-ND	1.05	.95	.79	525.00	ECS-40-20-5G3XDS-TR
6.000000	20pF	XC1493CT-ND	1.05	.95	.79	525.00	ECS-60-20-5G3XDS-TR
8.000000	20pF	XC1494CT-ND	1.05	.95	.79	525.00	ECS-80-20-5G3XDS-TR
10.000000	20pF	XC1496CT-ND	1.05	.95	.79	525.00	ECS-100-20-5G3XDS-TR
11.059200	20pF	XC1497CT-ND	1.05	.95	.79	525.00	ECS-110.5-20-5G3XDS-TR
12.000000	18pF	XC1498CT-ND	1.05	.95	.79	525.00	ECS-120-18-5G3XDS-TR
12.000000	32pF	XC1499CT-ND	1.05	.95	.79	525.00	ECS-120-32-5G3XDS-TR
12.288000	20pF	XC1500CT-ND	1.05	.95	.79	525.00	ECS-122.8-20-5G3XDS-TR
14.318180	20pF	XC1501CT-ND	1.05	.95	.79	525.00	ECS-143-20-5G3XDS-TR
14.745600	20pF	XC1502CT-ND	1.05	.95	.79	525.00	ECS-147.4-20-5G3XDS-TR
16.000000	20pF	XC1503CT-ND	1.05	.95	.79	525.00	ECS-160-20-5G3XDS-TR
18.432000	20pF	XC1504CT-ND	1.05	.95	.79	525.00	ECS-184-20-5G3XDS-TR
20.000000	20pF	XC1505CT-ND	1.05	.95	.79	525.00	ECS-200-20-5G3XDS-TR
24.000000	20pF	XC1506CT-ND	1.05	.95	.79	525.00	ECS-240-20-5G3XDS-TR
24.576000	20pF	XC1507CT-ND	1.05	.95	.79	525.00	ECS-245.7-20-5G3XDS-TR
25.000000	20pF	XC1508CT-ND	1.05	.95	.79	525.00	ECS-250-20-5G3XDS-F-TR
27.000000	20pF	XC1509CT-ND	1.05	.95	.79	525.00	ECS-270-20-5G3XDS-F-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

CSM-7 Series, SMD, Low Profile

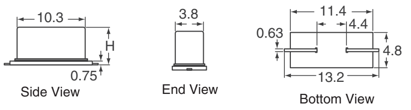

Dimension H (mm)	
CSM-7	4.3
CSM-7X	4.3
CSM-7SS	2.6

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
NEW! CSM-7X-EN Industrial Temperature Range, -40° ~ 85°C — RoHs Compliant NEW!							
3.579545	18pF	XC1677CT-ND	.58	.52	.42	345.00	ECS-35-18-5PXEN-TR
3.6864	18pF	XC1678CT-ND	.58	.52	.42	345.00	ECS-36-18-5PXEN-TR
4.000	18pF	XC1679CT-ND	.58	.52	.42	345.00	ECS-40-18-5PXEN-TR
4.096	18pF	XC1680CT-ND	.58	.52	.42	345.00	ECS-41-18-5PXEN-TR
4.194304	18pF	XC1681CT-ND	.58	.52	.42	345.00	ECS-42-18-5PXEN-TR
4.9152	18pF	XC1682CT-ND	.58	.52	.42	345.00	ECS-49-18-5PXEN-TR
5.000	18pF	XC1683CT-ND	.58	.52	.42	345.00	ECS-50-18-5PXEN-TR
5.0688	18pF	XC1684CT-ND	.58	.52	.42	345.00	ECS-51-18-5PXEN-TR
6.000	18pF	XC1685CT-ND	.58	.52	.42	345.00	ECS-60-18-5PXEN-TR
6.144	18pF	XC1686CT-ND	.58	.52	.42	345.00	ECS-61-18-5PXEN-TR
7.3728	18pF	XC1687CT-ND	.58	.52	.42	345.00	ECS-73-18-5PXEN-TR
7.680	18pF	XC1688CT-ND	.58	.52	.42	345.00	ECS-76.8-18-5PXEN-TR
9.8304	18pF	XC1689CT-ND	.58	.52	.42	345.00	ECS-98.3-18-5PXEN-TR
11.000	18pF	XC1690CT-ND	.58	.52	.42	345.00	ECS-110-18-5PXEN-TR
11.0592	18pF	XC1691CT-ND	.58	.52	.42	345.00	ECS-110.5-18-5PXEN-TR
12.288	18pF	XC1692CT-ND	.58	.52	.42	345.00	ECS-122.8-18-5PXEN-TR
13.5168	18pF	XC1706CT-ND	.58	.52	.42	345.00	ECS-135-18-5PXEN-TR
14.31818	18pF	XC1693CT-ND	.58	.52	.42	345.00	ECS-143-18-5PXEN-TR
14.7456	18pF	XC1694CT-ND	.58	.52	.42	345.00	ECS-147.4-18-5PXEN-TR
16.000	18pF	XC1695CT-ND	.58	.52	.42	345.00	ECS-160-18-5PXEN-TR
16.000312	18pF	XC1696CT-ND	.58	.52	.42	345.00	ECS-160.003-18-5PXEN-TR
16.257	18pF	XC1697CT-ND	.58	.52	.42	345.00	ECS-162.57-18-5PXEN-TR
16.384	18pF	XC1698CT-ND	.58	.52	.42	345.00	ECS-163-18-5PXEN-TR
19.6608	18pF	XC1699CT-ND	.58	.52	.42	345.00	ECS-196.6-18-5PXEN-TR
20.000	18pF	XC1700CT-ND	.58	.52	.42	345.00	ECS-200-18-5PXEN-TR
22.1184	18pF	XC1701CT-ND	.58	.52	.42	345.00	ECS-221-18-5PXEN-TR
24.000	18pF	XC1702CT-ND	.58	.52	.42	345.00	ECS-240-18-5PXEN-TR
24.576	18pF	XC1703CT-ND	.58	.52	.42	345.00	ECS-245.7-18-5PXEN-TR
25.175	18pF	XC1704CT-ND	.58	.52	.42	345.00	ECS-251.75-18-5PX-EN-TR
28.63636	18pF	XC1705CT-ND	.58	.52	.42	345.00	ECS-286.3-18-5PX-F-EN-TR
CSM-7-DN Industrial Temperature Range, -40°C ~ 85°C							
3.579545	17pF	XC730CT-ND	1.05	.88	.71	526.50	ECS-35-17-5PDN-TR
3.686400	20pF	XC731CT-ND	1.05	.88	.71	526.50	ECS-36-20-5PDN-TR
4.000000	20pF	XC732CT-ND	1.05	.88	.71	526.50	ECS-40-20-5PDN-TR
6.000000	32pF	XC733CT-ND	1.05	.88	.71	526.50	ECS-60-32-5PDN-TR
7.372800	20pF	XC734CT-ND	1.05	.88	.71	526.50	ECS-73-20-5PDN-TR
8.000000	18pF	XC735CT-ND	1.05	.88	.71	526.50	ECS-80-18-5PDN-TR
12.000000	20pF	XC736CT-ND	1.05	.88	.71	526.50	ECS-120-20-5PDN-TR
14.318180	20pF	XC737CT-ND	1.05	.88	.71	526.50	ECS-143-20-5PDN-TR
16.000000	20pF	XC738CT-ND	1.05	.88	.71	526.50	ECS-160-20-5PDN-TR
18.432000	20pF	XC739CT-ND	1.05	.88	.71	526.50	ECS-184-20-5PDN-TR
19.660800	20pF	XC740CT-ND	1.05	.88	.71	526.50	ECS-196-20-5PDN-TR
20.000000	20pF	XC741CT-ND	1.05	.88	.71	526.50	ECS-200-20-5PDN-TR
24.000000	20pF	XC742CT-ND	1.05	.88	.71	526.50	ECS-240-20-5PDN-TR
CSM-7X-DN Industrial Temperature Range, -40°C ~ 85°C — RoHS Compliant							
3.579545	17pF	XC1292CT-ND	1.05	.88	.71	527.00	ECS-35-17-5PXDN-TR
3.686400	20pF	XC1293CT-ND	1.05	.88	.71	527.00	ECS-36-20-5PXDN-TR
4.000000	20pF	XC1294CT-ND	1.05	.88	.71	527.00	ECS-40-20-5PXDN-TR
6.000000	32pF	XC1295CT-ND	1.05	.88	.71	527.00	ECS-60-32-5PXDN-TR
7.372800	20pF	XC1296CT-ND	1.05	.88	.71	527.00	ECS-73-20-5PXDN-TR
8.000000	18pF	XC1297CT-ND	1.05	.88	.71	527.00	ECS-80-18-5PXDN-TR
12.000000	20pF	XC1298CT-ND	1.05	.88	.71	527.00	ECS-120-20-5PXDN-TR
16.000000	20pF	XC1299CT-ND	1.05	.88	.71	527.00	ECS-160-20-5PXDN-TR
18.432000	20pF	XC1300CT-ND	1.05	.88	.71	527.00	ECS-184-20-5PXDN-TR
19.660800	20pF	XC1301CT-ND	1.05	.88	.71	527.00	ECS-196-20-5PXDN-TR
20.000000	20pF	XC1302CT-ND	1.05	.88	.71	527.00	ECS-200-20-5PXDN-TR
24.000000	20pF	XC1303CT-ND	1.05	.88	.71	527.00	ECS-240-20-5PXDN-TR
CSM-7X-DU Automotive Temperature, -55°C ~ 125°C — RoHS Compliant							
3.579545	18pF	XC1522CT-ND	1.17	1.06	.88	585.00	ECS-35-18-5PXDU-TR
3.686400	20pF	XC1523CT-ND	1.17	1.06	.88	585.00	ECS-36-20-5PXDU-TR
4.000000	20pF	XC1524CT-ND	1.17	1.06	.88	585.00	ECS-40-20-5PXDU-TR
6.000000	20pF	XC1525CT-ND	1.17	1.06	.88	585.00	ECS-60-20-5PXDU-TR
8.000000	20pF	XC1526CT-ND	1.17	1.06	.88	585.00	ECS-80-20-5PXDU-TR
9.830400	20pF	XC1527CT-ND	1.17	1.06	.88	585.00	ECS-98.3-20-5PXDU-TR
10.000000	20pF	XC1528CT-ND	1.17	1.06	.88	585.00	ECS-100-20-5PXDU-TR
11.059200	20pF	XC1529CT-ND	1.17	1.06	.88	585.00	ECS-110.5-20-5PXDU-TR
12.000000	18pF	XC1530CT-ND	1.17	1.06	.88	585.00	ECS-120-18-5PXDU-TR
12.000000	32pF	XC1531CT-ND	1.17	1.06	.88	585.00	ECS-120-32-5PXDU-TR
12.288000	20pF	XC1532CT-ND	1.17	1.06	.88	585.00	ECS-122.8-20-5PXDU-TR
14.318180	20pF	XC1533CT-ND	1.17	1.06	.88	585.00	ECS-143-20-5PXDU-TR
14.745600	20pF	XC1534CT-ND	1.17	1.06	.88	585.00	ECS-147.4-20-5PXDU-TR
16.000000	20pF	XC1535CT-ND	1.17	1.06	.88	585.00	ECS-160-20-5PXDU-TR
18.432000	20pF	XC1536CT-ND	1.17	1.06	.88	585.00	ECS-184-20-5PXDU-TR
20.000000	20pF	XC1537CT-ND	1.17	1.06	.88	585.00	ECS-200-20-5PXDU-TR
24.000000	20pF	XC1538CT-ND	1.17	1.06	.88	585.00	ECS-240-20-5PXDU-TR
24.576000	20pF	XC1539CT-ND	1.17	1.06	.88	585.00	ECS-245.7-20-5PXDU-TR
25.000000	20pF	XC1540CT-ND	1.17	1.06	.88	585.00	ECS-250-20-5PXDU-F-TR
27.000000	20pF	XC1541CT-ND	1.17	1.06	.88	585.00	ECS-270-20-5PXDU-F-TR
CSM-7, -10°C ~ 70°C							
3.579545	Series	XC663CT-ND	.73	.61	.49	405.00	ECS-35-S-5P-TR
3.579545	17pF	XC560CT-ND	.73	.61	.49	405.00	ECS-35-17-5P-TR
3.686400	Series	XC561CT-ND	.73	.61	.49	405.00	ECS-36-S-5P-TR
3.686400	20pF	XC562CT-ND	.73	.61	.49	405.00	ECS-36-20-5P-TR
4.000000	Series	XC563CT-ND	.73	.61	.49	405.00	ECS-40-S-5P-TR
4.000000	20pF	XC564CT-ND	.73	.61	.49	405.00	ECS-40-20-5P-TR
4.032000	Series	XC665CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5P-TR
4.032000	20pF	XC664CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5P-TR
4.096000	20pF	XC666CT-ND	.73	.61	.49	405.00	ECS-41-20-5P-TR
4.194304	12pF	XC667CT-ND	.73	.61	.49	405.00	ECS-42-12-5P-TR
4.194304	16pF	XC668CT-ND	.73	.61	.49	405.00	ECS-42-16-5P-TR
4.433618	20pF	XC669CT-ND	.73	.61	.49	405.00	ECS-44-20-5P-TR
4.915200	Series	XC565CT-ND	.73	.61	.49	405.00	ECS-49-S-5P-TR
4.915200	20pF	XC566CT-ND	.73	.61	.49	405.00	ECS-49-20-5P-TR
5.000000	Series	XC670CT-ND	.73	.61	.49	405.00	ECS-50-S-5P-TR
5.000000	20pF	XC671CT-ND	.73	.61	.49	405.00	ECS-50-20-5P-TR
5.068800	Series	XC672CT-ND	.73	.61	.49	405.00	ECS-51-S-5P-TR
5.068800	20pF	XC673CT-ND	.73	.61	.49	405.00	ECS-51-20-5P-TR
5.185000	Series	XC674CT-ND	.73	.61	.49	405.00	ECS-52-S-5P-TR
5.185000	32pF	XC675CT-ND	.73	.61	.49	405.00	ECS-52-32-5P-TR
5.990400	Series	XC676CT-ND	.73	.61	.49	405.00	ECS-59-S-5P-TR
5.990400	20pF	XC677CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5P-TR
6.000000	Series	XC678CT-ND	.73	.61	.49	405.00	ECS-60-S-5P-TR
6.000000	32pF	XC679CT-ND	.73	.61	.49	405.00	ECS-60-32-5P-TR
6.144000	32pF	XC567CT-ND	.73	.61	.49	405.00	ECS-61-32-5P-TR
7.372800	Series	XC568CT-ND	.73	.61	.49	405.00	ECS-73-S-5P-TR
7.372800	20pF	XC680CT-ND	.73	.61	.49	405.00	ECS-73-20-5P-TR
8.000000	Series	XC569CT-ND	.73	.61	.49	405.00	ECS-80-S-5P-TR
8.000000	18pF	XC681CT-ND	.73	.61	.49	405.00	ECS-80-18-5P-TR
8.000000	32pF	XC682CT-ND	.73	.61	.49	405.00	ECS-80-32-5P-TR
9.216000	Series	XC683CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5P-TR
9.216000	20pF	XC684CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5P-TR
9.830400	Series	XC570CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5P-TR
9.830400	20pF	XC571CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5P-TR
10.000000	Series	XC572CT-ND	.73	.61	.49	405.00	ECS-100-S-5P-TR
10.000000	18pF	XC716CT-ND	.73	.61	.49	405.00	ECS-100-18-5P-TR
11.000000	Series	XC685CT-ND	.73	.61	.49	405.00	ECS-110-S-5P-TR
11.059200	Series	XC573CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5P-TR
11.059200	20pF	XC574CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5P-TR
11.059200	32pF	XC686CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5P-TR
12.000000	Series	XC575CT-ND	.73	.61	.49	405.00	ECS-120-S-5P-TR
12.000000	18pF	XC717CT-ND	.73	.61	.49	405.00	ECS-120-18-5P-TR
12.000000	32pF	XC687CT-ND	.73	.61	.49	405.00	ECS-120-32-5P-TR
12.000393	18pF	XC688CT-ND	.73	.61	.49	405.00	ECS-120.003-18-5PTR
12.288000	Series	XC689CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5P-TR
12.288000	20pF	XC690CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5P-TR
14.318180	Series	XC576CT-ND	.73	.61	.49	405.00	ECS-143-S-5P-TR
14.318180	20pF	XC718CT-ND	.73	.61	.49	405.00	ECS-143-20-5P-TR
14.745600	Series	XC691CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5P-TR
14.745600	20pF	XC692CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5P-TR
15.000000	Series	XC693CT-ND	.73	.61	.49	405.00	ECS-150-S-5P-TR
16.000000	Series	XC577CT-ND	.73	.61	.49	405.00	ECS-160-S-5P-TR
16.000000	20pF	XC694CT-ND	.73	.61	.49	405.00	ECS-160-20-5P-TR
16.000312	18pF	XC695CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PTR
16.257000	Series	XC697CT-ND	.73	.61	.49	405.00	ECS-162.5-S-5P-TR
16.257000	20pF	XC696CT-ND	.73	.61	.49	405.00	ECS-162.5-20-5P-TR
18.000000	Series	XC698CT-ND	.73	.61	.49	405.00	ECS-180-S-5P-TR
18.432000	Series	XC578CT-ND	.73	.61	.49	405.00	ECS-184-S-5P-TR
18.432000	18pF	XC699CT-ND	.73	.61	.49	405.00	ECS-184-18-5P-TR
18.432000	20pF	XC700CT-ND	.73	.61	.49	405.00	ECS-184-20-5P-TR
19.660800	Series	XC579CT-ND	.73	.61	.49	405.00	ECS-196.6-S-5P-TR
19.660800	20pF	XC701CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5P-TR
20.000000	Series	XC580CT-ND	.73	.61	.49	405.00	ECS-200-S-5P-TR
20.000000	16pF	XC719CT-ND	.73	.61	.49	405.00	ECS-200-16-5P-TR
20.000000	20pF	XC581CT-ND	.73	.61	.49	405.00	ECS-200-20-5P-TR
20.480000	20pF	XC743CT-ND	.73	.61	.49	405.00	ECS-204.8-20-5P-TR
24.000000	16pF	XC583CT-ND	.73	.61	.49	405.00	ECS-240-16-5P-TR
24.000000	20pF	XC582CT-ND	.73	.61	.49	405.00	ECS-240-20-5P-TR
24.000140	18pF	XC702CT-ND	.73	.61	.49	405.00	ECS-240.001-18-5PTR
24.576000	20pF	XC744CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5P-TR
25.000000	18pF	XC745CT-ND	.73	.61	.49	405.00	ECS-250-18-5P-F-TR
48.000000	20pF	XC941CT-ND§	.73	.61	.49	405.00	ECS-480-20-5P-TR
CSM-7X, -10°C ~ 70°C — RoHS Compliant							
3.579545	17pF	XC1234CT-ND	.73	.61	.49	405.00	ECS-35-17-5PX-TR
3.686400	Series	XC1235CT-ND	.73	.61	.49	405.00	ECS-36-S-5PX-TR
3.686400	20pF	XC1236CT-ND	.73	.61	.49	405.00	ECS-36-20-5PX-TR
4.000000	Series	XC1237CT-ND	.73	.61	.49	405.00	ECS-40-S-5PX-TR
4.000000	20pF	XC1238CT-ND	.73	.61	.49	405.00	ECS-40-20-5PX-TR
4.032000	Series	XC1259CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5PX-TR
4.032000	20pF	XC1258CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5PX-TR
4.096000	20pF	XC1260CT-ND	.73	.61	.49	405.00	ECS-41-20-5PX-TR
4.194304	12pF	XC1261CT-ND	.73	.61	.49	405.00	ECS-42-12-5PX-TR
4.194304	16pF	XC1262CT-ND	.73	.61	.49	405.00	ECS-42-16-5PX-TR
4.433618	20pF	XC1263CT-ND	.73	.61	.49	405.00	ECS-44-20-5PX-TR
4.915200	Series	XC1239CT-ND	.73	.61	.49	405.00	ECS-49-S-5PX-TR
4.915200	20pF	XC1240CT-ND	.73	.61	.49	405.00	ECS-49-20-5PX-TR
5.000000	Series	XC1264CT-ND	.73	.61	.49	405.00	ECS-50-S-5PX-TR
5.000000	20pF	XC1265CT-ND	.73	.61	.49	405.00	ECS-50-20-5PX-TR
5.185000	32pF	XC1266CT-ND	.73	.61	.49	405.00	ECS-52-32-5PX-TR
5.990400	20pF	XC1267CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5PX-TR
6.000000	Series	XC1268CT-ND	.73	.61	.49	405.00	ECS-60-S-5PX-TR
6.000000	20pF	XC1000CT-ND	.81	.73	.61	405.00	ECS-60-20-5PX-TR
6.000000	32pF	XC1269CT-ND	.73	.61	.49	405.00	ECS-60-32-5PX-TR
6.144000	32pF	XC1241CT-ND	.73	.61	.49	405.00	ECS-61-32-5PX-TR

† For Tape and Reel part number , change CT-ND to TR-ND.
‡ Due to manufacturer, product may come Cut Tape or Bulk § 3rd Overtone

(Continued)

Quartz Crystals

CSM-7 Series, SMD, Low Profile *(Cont.)*

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
7.372800	Series	XC1242CT-ND	.73	.61	.49	405.00	ECS-73-S-5PX-TR
7.372800	20pF	XC1270CT-ND	.73	.61	.49	405.00	ECS-73-20-5PX-TR
8.000000	Series	XC1243CT-ND	.73	.61	.49	405.00	ECS-80-S-5PX-TR
8.000000	18pF	XC1271CT-ND	.73	.61	.49	405.00	ECS-80-18-5PX-TR
8.000000	32pF	XC1272CT-ND	.73	.61	.49	405.00	ECS-80-32-5PX-TR
9.216000	Series	XC1273CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5PX-TR
9.216000	20pF	XC1274CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5PX-TR
9.830400	Series	XC1244CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5PX-TR
9.830400	20pF	XC1245CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5PX-TR
10.000000	Series	XC1246CT-ND	.73	.61	.49	405.00	ECS-100-S-5PX-TR
10.000000	18pF	XC1288CT-ND	.73	.61	.49	405.00	ECS-100-18-5PX-TR
10.245000	16pF	XC1004CT-ND	1.95	1.76	1.47	975.00	ECS-102.45-16-5PX-TR
11.059200	Series	XC1247CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5PX-TR
11.059200	20pF	XC1248CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5PX-TR
11.059200	32pF	XC1275CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5PX-TR
12.000000	Series	XC1249CT-ND	.73	.61	.49	405.00	ECS-120-S-5PX-TR
12.000000	18pF	XC1289CT-ND	.73	.61	.49	405.00	ECS-120-18-5PX-TR
12.000000	32pF	XC1276CT-ND	.73	.61	.49	405.00	ECS-120-32-5PX-TR
12.288000	Series	XC1277CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5PX-TR
12.288000	20pF	XC1278CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5PX-TR
13.560000	12pF	XC1003CT-ND	1.95	1.76	1.47	975.00	ECS-135.6-12-5PX-TR
14.318180	20pF	XC1290CT-ND	.73	.61	.49	405.00	ECS-143-20-5PX-TR
14.745600	Series	XC1279CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5PX-TR
14.745600	20pF	XC1280CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5PX-TR
15.000000	Series	XC1281CT-ND	.73	.61	.49	405.00	ECS-150-S-5PX-TR
16.000000	Series	XC1251CT-ND	.73	.61	.49	405.00	ECS-160-S-5PX-TR
16.000000	20pF	XC1282CT-ND	.73	.61	.49	405.00	ECS-160-20-5PX-TR
16.000312	18pF	XC1283CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PX-TR
18.000000	Series	XC1284CT-ND	.73	.61	.49	405.00	ECS-180-S-5PX-TR
18.432000	Series	XC1252CT-ND	.73	.61	.49	405.00	ECS-184-S-5PX-TR
18.432000	18pF	XC1285CT-ND	.73	.61	.49	405.00	ECS-184-18-5PX-TR
18.432000	20pF	XC1286CT-ND	.73	.61	.49	405.00	ECS-184-20-5PX-TR
19.660800	20pF	XC1287CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5PX-TR
20.000000	Series	XC1253CT-ND	.73	.61	.49	405.00	ECS-200-S-5PX-TR
20.000000	16pF	XC1291CT-ND	.73	.61	.49	405.00	ECS-200-16-5PX-TR
20.000000	20pF	XC1254CT-ND	.73	.61	.49	405.00	ECS-200-20-5PX-TR
24.000000	12pF	XC1001CT-ND	.81	.73	.61	405.00	ECS-240-12-5PX-TR
24.000000	16pF	XC1256CT-ND	.73	.61	.49	405.00	ECS-240-16-5PX-TR
24.000000	20pF	XC1255CT-ND	.73	.61	.49	405.00	ECS-240-20-5PX-TR
24.576000	20pF	XC1304CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5PX-TR
25.000000	18pF	XC1305CT-ND	.73	.61	.49	405.00	ECS-250-18-5PX-F-TR
27.000000	18pF	XC1002CT-ND	.73	.61	.49	405.00	ECS-270-18-5PX-F-TR
48.000000	20pF	XC1306CT-ND§	.73	.61	.49	405.00	ECS-480-20-5PX-TR
CSM-7SSX Low Profile, -10°C ~ 70°C — RoHS Compliant							
3.579545	18pF	XC1588CT-ND	1.02	.92	.77	510.00	ECS-35-18-5PVX
3.686400	20pF	XC1589CT-ND	1.02	.92	.77	510.00	ECS-36-20-5PVX
4.000000	20pF	XC1590CT-ND	1.02	.92	.77	510.00	ECS-40-20-5PVX
6.000000	20pF	XC1591CT-ND	1.02	.92	.77	510.00	ECS-60-20-5PVX
8.000000	20pF	XC1592CT-ND	1.02	.92	.77	510.00	ECS-80-20-5PVX
9.830400	20pF	XC1593CT-ND	1.02	.92	.77	510.00	ECS-98.3-20-5PVX
10.000000	20pF	XC1594CT-ND	1.02	.92	.77	510.00	ECS-100-20-5PVX
11.059200	20pF	XC1595CT-ND	1.02	.92	.77	510.00	ECS-110.5-20-5PVX
12.000000	18pF	XC1596CT-ND	1.02	.92	.77	510.00	ECS-120-18-5PVX
12.000000	32pF	XC1597CT-ND	1.02	.92	.77	510.00	ECS-120-32-5PVX
12.288000	20pF	XC1598CT-ND	1.02	.92	.77	510.00	ECS-122.8-20-5PVX
14.318180	20pF	XC1599CT-ND	1.02	.92	.77	510.00	ECS-143-20-5PVX
14.745600	20pF	XC1600CT-ND	1.02	.92	.77	510.00	ECS-147.4-20-5PVX
16.000000	20pF	XC1601CT-ND	1.02	.92	.77	510.00	ECS-160-20-5PVX
18.432000	20pF	XC1602CT-ND	1.02	.92	.77	510.00	ECS-184-20-5PVX
20.000000	20pF	XC1603CT-ND	1.02	.92	.77	510.00	ECS-200-20-5PVX
24.000000	20pF	XC1604CT-ND	1.02	.92	.77	510.00	ECS-240-20-5PVX
24.576000	20pF	XC1605CT-ND	1.02	.92	.77	510.00	ECS-245.7-20-5PVX
25.000000	20pF	XC1606CT-ND	1.02	.92	.77	510.00	ECS-250-20-5PVX
27.000000	20pF	XC1607CT-ND	1.02	.92	.77	510.00	ECS-270-20-5PVX
CSM-7 for Melexis and Other RF Applications, -10°C ~ 70°C							
7.150500	12pF	XC871-ND‡	1.95	1.76	1.47	—	ECS-071.505-CD-0370
9.843800	12pF	XC872-ND‡	1.95	1.76	1.47	—	ECS-098.438-CD-0371
13.062500	12pF	XC873-ND‡	1.95	1.76	1.47	—	ECS-130.625-CD-0373
13.560000	12pF	XC874-ND‡	1.95	1.76	1.47	—	ECS-135.600-CD-0374
20.356300	12pF	XC875-ND‡	1.95	1.76	1.47	—	ECS-203.563-CD-0375
22.627800	12pF	XC876-ND‡	1.95	1.76	1.47	—	ECS-226.278-CD-0376
23.264300	12pF	XC877-ND‡	1.95	1.76	1.47	—	ECS-232.643-CD-0377
23.512200	12pF	XC878-ND‡	1.95	1.76	1.47	—	ECS-235.122-CD-0378
25.223500	12pF	XC879-ND‡	1.95	1.76	1.47	—	ECS-252.235-CD-0379
25.456300	12pF	XC880-ND‡	1.95	1.76	1.47	—	ECS-254.563-CD-0380
26.451300	12pF	XC881-ND‡	1.95	1.76	1.47	—	ECS-264.513-CD-0381
26.597100	12pF	XC882-ND‡	1.95	1.76	1.47	—	ECS-265.971-CD-0382
27.134400	12pF	XC883-ND‡	1.95	1.76	1.47	—	ECS-271.344-CD-0383
27.468800	12pF	XC884-ND‡	1.95	1.76	1.47	—	ECS-274.688-CD-0384
28.259400	12pF	XC885-ND‡	1.95	1.76	1.47	—	ECS-282.594-CD-0385
28.593800	12pF	XC886-ND‡	1.95	1.76	1.47	—	ECS-285.938-CD-0386
CSM-7X for Melexis and Other RF Applications, -10°C ~ 70°C — RoHS Compliant							
4.897000	20pF	XC1023CT-ND	1.95	1.76	1.47	975.00	ECS-48.97-CDX-0065-TR
6.498300	20pF	XC1024CT-ND	1.95	1.76	1.47	975.00	ECS-64.983-CDX-0067-TR
6.745800	20pF	XC1025CT-ND	1.95	1.76	1.47	975.00	ECS-67.458-CDX-0068-TR
7.150500	12pF	XC1355-ND‡	1.95	1.76	1.47	—	ECS-071.505-CDX-0370
9.843750	10pF	XC1026CT-ND	1.95	1.76	1.47	975.00	ECS-98.4375-CDX-0314-TR
9.843800	12pF	XC1356-ND‡	1.95	1.76	1.47	—	ECS-098.438-CDX-0371
13.062500	12pF	XC1357-ND‡	1.95	1.76	1.47	—	ECS-130.625-CDX-0373
13.560000	10pF	XC1027CT-ND	1.95	1.76	1.47	975.00	ECS-135.60-CDX-0317-TR
13.560000	12pF	XC1358-ND‡	1.95	1.76	1.47	—	ECS-135.600-CDX-0374
20.356300	12pF	XC1359-ND‡	1.95	1.76	1.47	—	ECS-203.563-CDX-0375
22.627800	12pF	XC1360-ND‡	1.95	1.76	1.47	—	ECS-226.278-CDX-0376
23.264300	12pF	XC1361-ND‡	1.95	1.76	1.47	—	ECS-232.643-CDX-0377
23.512200	12pF	XC1362-ND‡	1.95	1.76	1.47	—	ECS-235.122-CDX-0378
25.223500	12pF	XC1363-ND‡	1.95	1.76	1.47	—	ECS-252.235-CDX-0379
25.456300	12pF	XC1364-ND‡	1.95	1.76	1.47	—	ECS-254.563-CDX-0380
26.451300	12pF	XC1365-ND‡	1.95	1.76	1.47	—	ECS-264.513-CDX-0381
26.597100	12pF	XC1366-ND‡	1.95	1.76	1.47	—	ECS-265.971-CDX-0382
27.134400	12pF	XC1367-ND‡	1.95	1.76	1.47	—	ECS-271.344-CDX-0383
27.468800	12pF	XC1368-ND‡	1.95	1.76	1.47	—	ECS-274.688-CDX-0384
28.259400	12pF	XC1369-ND‡	1.95	1.76	1.47	—	ECS-282.594-CDX-0385
28.593800	12pF	XC1370-ND‡	1.95	1.76	1.47	—	ECS-285.938-CDX-0386

† For Tape and Reel part number, change CT-ND to TR-ND.

‡ Due to manufacturer, product may come Cut Tape or Bulk § 3rd Overtone

CSM-4A Series, SMD, Low Profile

Digi Reel®

Electrical Specifications: • The CSM-4A is also pin-out compatible with the Epson MA-506 • **Frequency Tolerance:** ±30ppm • **Operating Mode:** Fundamental • **Shunt Capacitance:** 7pF • **Storage Temperature:** -30°C ~ 85°C • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 500μW

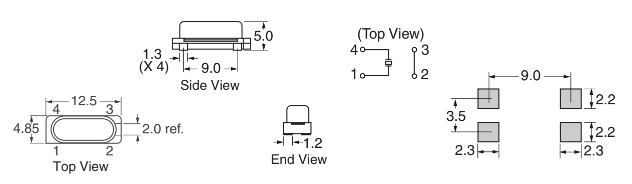

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing† 1,000	ECS Part No.
CSM-4A							
3.579545	17pF	XC747CT-ND	1.35	1.24	1.02	675.00	ECS-35-17-28A-TR
3.686400	20pF	XC748CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28A-TR
4.000000	20pF	XC749CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28A-TR
4.915200	20pF	XC751CT-ND	1.35	1.24	1.02	675.00	ECS-49-20-28A-TR
5.000000	20pF	XC750CT-ND	1.35	1.24	1.02	675.00	ECS-50-20-28A-TR
6.000000	32pF	XC752CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28A-TR
7.372800	20pF	XC753CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28A-TR
8.000000	16pF	XC754CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28A-TR
9.830400	20pF	XC778CT-ND	1.35	1.24	1.02	675.00	ECS-98.3-20-28A-TR
10.000000	Series	XC755CT-ND	1.35	1.24	1.02	675.00	ECS-100-S-28A-TR
10.000000	20pF	XC756CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28A-TR
11.059200	Series	XC757CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-S-28A-TR
11.059200	20pF	XC758CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28A-TR
12.000000	Series	XC760CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28A-TR
12.000000	18pF	XC759CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28A-TR
12.000000	32pF	XC761CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28A-TR
12.288000	20pF	XC762CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28A-TR
14.318180	Series	XC764CT-ND	1.35	1.24	1.02	675.00	ECS-143-S-28A-TR
14.318180	20pF	XC763CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28A-TR
14.745600	Series	XC765CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-S-28A-TR
14.745600	20pF	XC766CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28A-TR
16.000000	Series	XC768CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28A-TR
16.000000	20pF	XC767CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28A-TR
18.432000	Series	XC769CT-ND	1.35	1.24	1.02	675.00	ECS-184-S-28A-TR
18.432000	20pF	XC770CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28A-TR
20.000000	Series	XC771CT-ND	1.35	1.24	1.02	675.00	ECS-200-S-28A-TR
20.000000	20pF	XC772CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28A-TR
24.000000	Series	XC773CT-ND	1.35	1.24	1.02	675.00	ECS-240-S-28A-TR
24.000000	12pF	XC1008CT-ND	1.35	1.22	1.02	675.00	ECS-240-12-28A-TR
24.000000	20pF	XC774CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28A-TR
24.576000	20pF	XC775CT-ND	1.35	1.24	1.02	675.00	ECS-245.7-20-28A-TR
25.000000	20pF	XC776CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28A-F-TR
CSM-4AX — RoHS Compliant							
3.686400	20pF	XC1308CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28AX-TR
4.000000	20pF	XC1309CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28AX-TR
6.000000	32pF	XC1310CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28AX-TR
7.372800	20pF	XC1311CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28AX-TR
8.000000	16pF	XC1312CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28AX-TR
10.000000	20pF	XC1313CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28AX-TR
11.059200	20pF	XC1314CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28AX-TR
12.000000	Series	XC1316CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28AX-TR
12.000000	18pF	XC1315CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28AX-TR
12.000000	32pF	XC1317CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28AX-TR
12.288000	20pF	XC1318CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28AX-TR
14.318180	20pF	XC1319CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28AX-TR
14.745600	20pF	XC1321CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28AX-TR
16.000000	Series	XC1323CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28AX-TR
16.000000	20pF	XC1322CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28AX-TR
18.432000	20pF	XC1324CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28AX-TR
20.000000	20pF	XC1325CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28AX-TR
24.000000	20pF	XC1326CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28AX-TR
25.000000	20pF	XC1327CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28AX-F-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

ECS INC. INTERNATIONAL ECX-3S Series Surface Mount Quartz Crystals

Digi-Reel®

Electrical Characteristics:

- **Frequency Tolerance:** ±30ppm
- **Shunt Capacitance:** 7pF
- **Drive Level:** 100μW
- **Operating Temperature:** -10°C ~ 70°C
- **Storage Temperature:** -40°C ~ 85°C
- **Operating Mode:** Fundamental

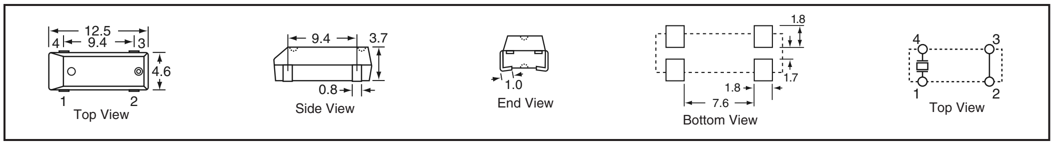

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
ECX-3S							
3.579545	Series	XC529CT-ND	2.03	1.69	1.35	1012.50	ECS-35-S-7S-TR
3.579545	17pF	XC501CT-ND‡	2.03	1.69	1.35	1012.50	ECS-35-17-7S-TR
3.686400	Series	XC502CT-ND‡	2.03	1.69	1.35	1012.50	ECS-36-S-7S-TR
3.686400	20pF	XC503CT-ND‡	2.03	1.69	1.35	1012.50	ECS-36-20-7S-TR
4.000000	Series	XC504CT-ND‡	2.03	1.69	1.35	1012.50	ECS-40-S-7S-TR
4.000000	20pF	XC505CT-ND‡	2.03	1.69	1.35	1012.50	ECS-40-20-7S-TR
4.096000	16pF	XC500CT-ND	2.03	1.69	1.35	1012.50	ECS-41-16-7S-TR
4.194304	12pF	XC530CT-ND	2.03	1.69	1.35	1012.50	ECS-42-12-7S-TR
4.433618	20pF	XC506CT-ND‡	2.03	1.69	1.35	1012.50	ECS-44-20-7S-TR
4.915200	Series	XC507CT-ND‡	2.03	1.69	1.35	1012.50	ECS-49-S-7S-TR
4.915200	20pF	XC508CT-ND‡	2.03	1.69	1.35	1012.50	ECS-49-20-7S-TR
5.000000	20pF	XC499CT-ND	2.03	1.69	1.35	1012.50	ECS-50-20-7S-TR
6.000000	Series	XC497CT-ND	2.03	1.69	1.35	1012.50	ECS-60-S-7S-TR
6.000000	32pF	XC498CT-ND	2.03	1.69	1.35	1012.50	ECS-60-32-7S-TR
6.144000	32pF	XC509CT-ND‡	2.03	1.69	1.35	1012.50	ECS-61-32-7S-TR
6.553600	12pF	XC496CT-ND	2.03	1.69	1.35	1012.50	ECS-65-12-7S-TR
7.372800	Series	XC510CT-ND‡	2.03	1.69	1.35	1012.50	ECS-73-S-7S-TR
7.372800	20pF	XC536CT-ND	2.03	1.69	1.35	1012.50	ECS-73-20-7S-TR
8.000000	Series	XC511CT-ND‡	2.03	1.69	1.35	1012.50	ECS-80-S-7S-TR
8.000000	16pF	XC495CT-ND	2.03	1.69	1.35	1012.50	ECS-80-16-7S-TR
9.830400	Series	XC512CT-ND‡	2.03	1.69	1.35	1012.50	ECS-98.3-S-7S-TR
9.830400	20pF	XC513CT-ND‡	2.03	1.69	1.35	1012.50	ECS-98.3-20-7S-TR
10.000000	Series	XC514CT-ND‡	2.03	1.69	1.35	1012.50	ECS-100-S-7S-TR
11.059200	Series	XC515CT-ND‡	2.03	1.69	1.35	1012.50	ECS-110.5-S-7S-TR
11.059200	20pF	XC516CT-ND	2.03	1.69	1.35	1012.50	ECS-110.5-20-7S-TR
12.000000	Series	XC517CT-ND‡	2.03	1.69	1.35	1012.50	ECS-120-S-7S-TR
12.000000	18pF	XC548CT-ND	2.03	1.69	1.35	1012.50	ECS-120-18-7S-TR
12.000000	32pF	XC494CT-ND	2.03	1.69	1.35	1012.50	ECS-120-32-7S-TR
12.288000	Series	XC518CT-ND‡	2.03	1.69	1.35	1012.50	ECS-122.8-S-7S-TR
12.288000	20pF	XC493CT-ND	2.03	1.69	1.35	1012.50	ECS-122.8-20-7S-TR
14.318180	Series	XC519CT-ND‡	2.03	1.69	1.35	1012.50	ECS-143-S-7S-TR
14.318180	20pF	XC492CT-ND	2.03	1.69	1.35	—	ECS-143-20-7S-TR
14.745600	Series	XC520CT-ND‡	2.03	1.69	1.35	1012.50	ECS-147.4-S-7S-TR
14.745600	20pF	XC491CT-ND	2.03	1.69	1.35	1012.50	ECS-147.4-20-7S-TR
16.000000	Series	XC521CT-ND‡	2.03	1.69	1.35	1012.50	ECS-160-S-7S-TR
16.000000	20pF	XC550CT-ND	2.03	1.69	1.35	1012.50	ECS-160-20-7S-TR
18.432000	Series	XC522CT-ND‡	2.03	1.69	1.35	1012.50	ECS-184-S-7S-TR
19.660800	Series	XC523CT-ND‡	2.03	1.69	1.35	1012.50	ECS-196.6-S-7S-TR
19.660800	20pF	XC490CT-ND	2.03	1.69	1.35	1012.50	ECS-196.6-20-7S-TR
20.000000	Series	XC524CT-ND‡	2.03	1.69	1.35	1012.50	ECS-200-S-7S-TR
20.000000	16pF	XC489CT-ND	2.03	1.69	1.35	1012.50	ECS-200-16-7S-TR
20.000000	20pF	XC525CT-ND‡	2.03	1.69	1.35	1012.50	ECS-200-20-7S-TR
23.592000	Series	XC559CT-ND	2.03	1.69	1.35	1012.50	ECS-235.92-S-7S-TR
24.000000	Series	XC526CT-ND‡	2.03	1.69	1.35	1012.50	ECS-240-S-7S-TR
24.000000	16pF	XC528CT-ND	2.03	1.69	1.35	1012.50	ECS-240-16-7S-TR
24.000000	20pF	XC527CT-ND‡	2.03	1.69	1.35	1012.50	ECS-240-20-7S-TR
ECX-3SX — RoHS Compliant							
3.579545	Series	XC1229CT-ND	2.03	1.69	1.35	1012.50	ECS-35-S-7SX-TR
3.579545	17pF	XC1206CT-ND	2.03	1.69	1.35	1012.50	ECS-35-17-7SX-TR
3.686400	Series	XC1207CT-ND	2.03	1.69	1.35	1012.50	ECS-36-S-7SX-TR
3.686400	20pF	XC1208CT-ND	2.03	1.69	1.35	1012.50	ECS-36-20-7SX-TR
4.000000	Series	XC1209CT-ND	2.03	1.69	1.35	1012.50	ECS-40-S-7SX-TR
4.000000	20pF	XC1210CT-ND	2.03	1.69	1.35	1012.50	ECS-40-20-7SX-TR
4.096000	16pF	XC1205CT-ND	2.03	1.69	1.35	1012.50	ECS-41-16-7SX-TR
4.194304	12pF	XC1230CT-ND	2.03	1.69	1.35	1012.50	ECS-42-12-7SX-TR
4.915200	Series	XC1211CT-ND	2.03	1.69	1.35	1012.50	ECS-49-S-7SX-TR
4.915200	20pF	XC1212CT-ND	2.03	1.69	1.35	1012.50	ECS-49-20-7SX-TR
5.000000	20pF	XC1204CT-ND	2.03	1.69	1.35	1012.50	ECS-50-20-7SX-TR
6.000000	Series	XC1202CT-ND	2.03	1.69	1.35	1012.50	ECS-60-S-7SX-TR
6.000000	32pF	XC1203CT-ND	2.03	1.69	1.35	1012.50	ECS-60-32-7SX-TR
6.144000	32pF	XC1213CT-ND	2.03	1.69	1.35	1012.50	ECS-61-32-7SX-TR
7.372800	Series	XC1214CT-ND	2.03	1.69	1.35	1012.50	ECS-73-S-7SX-TR
7.372800	20pF	XC1231CT-ND	2.03	1.69	1.35	1012.50	ECS-73-20-7SX-TR
8.000000	Series	XC1215CT-ND	2.03	1.69	1.35	1012.50	ECS-80-S-7SX-TR
8.000000	16pF	XC1200CT-ND	2.03	1.69	1.35	1012.50	ECS-80-16-7SX-TR
9.830400	20pF	XC1216CT-ND	2.03	1.69	1.35	1012.50	ECS-98.3-20-7SX-TR
10.000000	Series	XC1217CT-ND	2.03	1.69	1.35	1012.50	ECS-100-S-7SX-TR
11.059200	Series	XC1218CT-ND	2.03	1.69	1.35	1012.50	ECS-110.5-S-7SX-TR
11.059200	20pF	XC1219CT-ND	2.03	1.69	1.35	1012.50	ECS-110.5-20-7SX-TR
12.000000	Series	XC1220CT-ND	2.03	1.69	1.35	1012.50	ECS-120-S-7SX-TR
12.000000	18pF	XC1232CT-ND	2.03	1.69	1.35	1012.50	ECS-120-18-7SX-TR
12.288000	Series	XC1221CT-ND	2.03	1.69	1.35	1012.50	ECS-122.8-S-7SX-TR
12.288000	20pF	XC1199CT-ND	2.03	1.69	1.35	1012.50	ECS-122.8-20-7SX-TR
14.318180	Series	XC1222CT-ND	2.03	1.69	1.35	1012.50	ECS-143-S-7SX-TR
14.745600	Series	XC1223CT-ND	2.03	1.69	1.35	1012.50	ECS-147.4-S-7SX-TR
14.745600	20pF	XC1198CT-ND	2.03	1.69	1.35	1012.50	ECS-147.4-20-7SX-TR
16.000000	Series	XC1224CT-ND	2.03	1.69	1.35	1012.50	ECS-160-S-7SX-TR
16.000000	20pF	XC1233CT-ND	2.03	1.69	1.35	1012.50	ECS-160-20-7SX-TR
18.432000	Series	XC1225CT-ND	2.03	1.69	1.35	1012.50	ECS-184-S-7SX-TR
19.660800	20pF	XC1197CT-ND	2.03	1.69	1.35	1012.50	ECS-196.6-20-7SX-TR
20.000000	Series	XC1226CT-ND	2.03	1.69	1.35	1012.50	ECS-200-S-7SX-TR
20.000000	16pF	XC1196CT-ND	2.03	1.69	1.35	1012.50	ECS-200-16-7SX-TR
20.000000	20pF	XC1227CT-ND	2.03	1.69	1.35	1012.50	ECS-200-20-7SX-TR
24.000000	20pF	XC1228CT-ND	2.03	1.69	1.35	1012.50	ECS-240-20-7SX-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

‡ **XC-KIT-ND Digi-Key® SMT Low Profile Quartz Crystal Kit** 3 each of values denoted (78 total pieces). Notebook style storage case and bin storage guide included **$169.00**

Surface Mount Quartz Crystals

Digi-Reel® RoHS COMPLIANT

Fig. 1

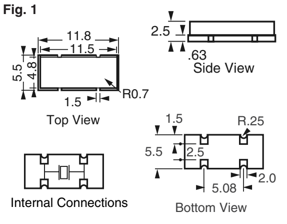

Fig. 2

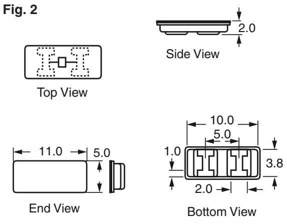

Fig. 3

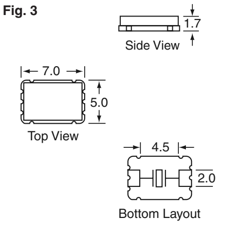

Fig. 4

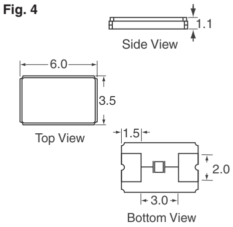

Fig. 5

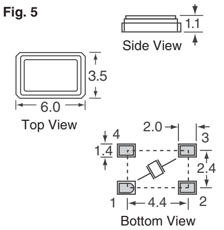

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
CSM-12, -40° ~ 85°C											
1	200	17pF	3.579545	XC584CT-ND	1.95	1.76	1.47	1.17	XC584TR-ND	975.00	ECS-35-17-18-TR
	200	18pF	3.686400	XC1709CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1709TR-ND ***NEW!***	975.00	ECS-36-18-18-TR
	200	20pF	3.686400	XC586CT-ND	1.95	1.76	1.47	1.17	XC586TR-ND	975.00	ECS-36-20-18-TR
	200	Series	3.686400	XC585CT-ND	1.95	1.76	1.47	1.17	XC585TR-ND	975.00	ECS-36-S-18-TR
	150	18pF	4.000000	XC1707CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1707TR-ND ***NEW!***	975.00	ECS-40-18-18-TR
	150	20pF	4.000000	XC587CT-ND	1.95	1.76	1.47	1.17	XC587TR-ND	975.00	ECS-40-20-18-TR
	150	Series	4.000000	XC588CT-ND	1.95	1.76	1.47	1.17	XC588TR-ND	975.00	ECS-40-S-18-TR
	150	18pF	4.096000	XC1722CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1722TR-ND ***NEW!***	975.00	ECS-41-18-18-TR
	150	18pF	4.915200	XC1718CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1718TR-ND ***NEW!***	975.00	ECS-49-18-18-TR
	150	20pF	4.915200	XC589CT-ND	1.95	1.76	1.47	1.17	XC589TR-ND	975.00	ECS-49-20-18-TR
	150	Series	4.915200	XC590CT-ND	1.95	1.76	1.47	1.17	XC590TR-ND	975.00	ECS-49-S-18-TR
	150	18pF	5.000000	XC1720CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1720TR-ND ***NEW!***	975.00	ECS-50-18-18-TR
	100	18pF	6.000000	XC1708CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1708TR-ND ***NEW!***	975.00	ECS-60-18-18-TR
	100	32pF	6.144000	XC591CT-ND	1.95	1.76	1.47	1.17	XC591TR-ND	975.00	ECS-61-32-18-TR
	100	18pF	7.372800	XC1714CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1714TR-ND ***NEW!***	975.00	ECS-73-18-18-TR
	100	Series	7.372800	XC592CT-ND	1.95	1.76	1.47	1.17	XC592TR-ND	975.00	ECS-73-S-18-TR

⁎ 3rd Overtone

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
1	100	18pF	8.000000	XC1711CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1711TR-ND ***NEW!***	975.00	ECS-80-18-18-TR
	100	20pF	8.000000	XC1007CT-ND	1.95	1.76	1.47	1.17	XC1007TR-ND	975.00	ECS-80-20-18-TR
	100	Series	8.000000	XC593CT-ND	1.95	1.76	1.47	1.17	XC593TR-ND	975.00	ECS-80-S-18-TR
	100	20pF	9.830400	XC595CT-ND	1.95	1.76	1.47	1.17	XC595TR-ND	975.00	ECS-98.3-20-18-TR
	100	Series	9.830400	XC594CT-ND	1.95	1.76	1.47	1.17	XC594TR-ND	975.00	ECS-98.3-S-18-TR
	80	18pF	10.000000	XC1713CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1713TR-ND ***NEW!***	975.00	ECS-100-18-18-TR
	80	Series	10.000000	XC596CT-ND	1.95	1.76	1.47	1.17	XC596TR-ND	975.00	ECS-100-S-18-TR
	80	18pF	11.059200	XC1717CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1717TR-ND ***NEW!***	975.00	ECS-110.5-18-18-TR
	80	20pF	11.059200	XC598CT-ND	1.95	1.76	1.47	1.17	XC598TR-ND	975.00	ECS-110.5-20-18-TR
	80	Series	11.059200	XC597CT-ND	1.95	1.76	1.47	1.17	XC597TR-ND	975.00	ECS-110.5-S-18-TR
	80	18pF	11.289600	XC1715CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1715TR-ND ***NEW!***	975.00	ECS-112.896-18-18-TR
	80	18pF	12.000000	XC1716CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1716TR-ND ***NEW!***	975.00	ECS-120-18-18-TR
	80	Series	12.000000	XC599CT-ND	1.95	1.76	1.47	1.17	XC599TR-ND	975.00	ECS-120-S-18-TR
	50	20pF	14.318180	XC937CT-ND	1.95	1.76	1.47	1.17	XC937TR-ND	975.00	ECS-143-20-18-TR
	50	Series	14.318180	XC600CT-ND	1.95	1.76	1.47	1.17	XC600TR-ND	975.00	ECS-143-S-18-TR
	50	18pF	14.745600	XC1712CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1712TR-ND ***NEW!***	975.00	ECS-147.4-18-18-TR
	50	18pF	16.000000	XC1719CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1719TR-ND ***NEW!***	975.00	ECS-160-18-18-TR
	50	Series	16.000000	XC601CT-ND	1.95	1.76	1.47	1.17	XC601TR-ND	975.00	ECS-160-S-18-TR
	50	Series	18.432000	XC602CT-ND	1.95	1.76	1.47	1.17	XC602TR-ND	975.00	ECS-184-S-18-TR
	50	Series	19.660800	XC603CT-ND	1.95	1.76	1.47	1.17	XC603TR-ND	975.00	ECS-196.6-S-18-TR
	50	18pF	20.000000	XC1710CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1710TR-ND ***NEW!***	975.00	ECS-200-18-18-TR
	50	20pF	20.000000	XC605CT-ND	1.95	1.76	1.47	1.17	XC605TR-ND	975.00	ECS-200-20-18-TR
	50	Series	20.000000	XC604CT-ND	1.95	1.76	1.47	1.17	XC604TR-ND	975.00	ECS-200-S-18-TR
	50	16pF	24.000000	XC607CT-ND	1.95	1.76	1.47	1.17	XC607TR-ND	975.00	ECS-240-16-18-TR
	50	20pF	24.000000	XC606CT-ND	1.95	1.76	1.47	1.17	XC606TR-ND	975.00	ECS-240-20-18-TR
	50	18pF	24.576000	XC1721CT-ND ***NEW!***	1.95	1.76	1.47	1.17	XC1721TR-ND ***NEW!***	975.00	ECS-245.7-18-18-TR
ECX-19A, -10°C ~ 70°C											
2	200	17pF	3.579545	XC850CT-ND	3.30	2.97	2.48	1.98	XC850TR-ND	1650.00	ECS-35-17-19A-TR
	150	20pF	4.000000	XC852CT-ND	3.30	2.97	2.48	1.98	XC852TR-ND	1650.00	ECS-40-20-19A-TR
	150	20pF	4.915200	XC853CT-ND	3.30	2.97	2.48	1.98	XC853TR-ND	1650.00	ECS-49-20-19A-TR
	100	32pF	6.144000	XC854CT-ND	3.30	2.97	2.48	1.98	XC854TR-ND	1650.00	ECS-61-32-19A-TR
	100	20pF	7.372800	XC855CT-ND	3.30	2.97	2.48	1.98	XC855TR-ND	1650.00	ECS-73-20-19A-TR
	100	20pF	8.000000	XC856CT-ND	3.30	2.97	2.48	1.98	XC856TR-ND	1650.00	ECS-80-20-19A-TR
	100	20pF	9.830400	XC857CT-ND	3.30	2.97	2.48	1.98	XC857TR-ND	1650.00	ECS-98.3-20-19A-TR
	80	Series	10.000000	XC858CT-ND	3.30	2.97	2.48	1.98	XC858TR-ND	1650.00	ECS-100-S-19A-TR
	80	20pF	11.059200	XC859CT-ND	3.30	2.97	2.48	1.98	XC859TR-ND	1650.00	ECS-110.5-20-19A-TR
	80	Series	12.000000	XC860CT-ND	3.30	2.97	2.48	1.98	XC860TR-ND	1650.00	ECS-120-S-19A-TR
	80	20pF	12.000000	XC861CT-ND	3.30	2.97	2.48	1.98	XC861TR-ND	1650.00	ECS-120-20-19A-TR
	50	Series	14.318180	XC862CT-ND	3.30	2.97	2.48	1.98	XC862TR-ND	1650.00	ECS-143-S-19A-TR
	50	20pF	14.318180	XC863CT-ND	3.30	2.97	2.48	1.98	XC863TR-ND	1650.00	ECS-143-20-19A-TR
	50	Series	16.000000	XC864CT-ND	3.30	2.97	2.48	1.98	XC864TR-ND	1650.00	ECS-160-S-19A-TR
	50	Series	18.432000	XC865CT-ND	3.30	2.97	2.48	1.98	XC865TR-ND	1650.00	ECS-184-S-19A-TR
	50	Series	19.660800	XC866CT-ND	3.30	2.97	2.48	1.98	XC866TR-ND	1650.00	ECS-196.6-S-19A-TR
	50	Series	20.000000	XC867CT-ND	3.30	2.97	2.48	1.98	XC867TR-ND	1650.00	ECS-200-S-19A-TR
	50	20pF	20.000000	XC868CT-ND	3.30	2.97	2.48	1.98	XC868TR-ND	1650.00	ECS-200-20-19A-TR
	50	Series	24.000000	XC870CT-ND	3.30	2.97	2.48	1.98	XC870TR-ND	1650.00	ECS-240-S-19A-TR
	50	20pF	24.000000	XC869CT-ND	3.30	2.97	2.48	1.98	XC869TR-ND	1650.00	ECS-240-20-19A-TR
CSM-8, -10°C ~ 70°C											
3	60	20pF	8.000000	XC1010CT-ND	3.30	2.97	2.48	1.98	XC1010TR-ND	1650.00	ECS-80-20-20A-TR
	60	Series	9.830400	XC608CT-ND	3.30	2.97	2.48	1.98	XC608TR-ND	1650.00	ECS-98.3-S-20A-TR
	60	20pF	9.830400	XC609CT-ND	3.30	2.97	2.48	1.98	XC609TR-ND	1650.00	ECS-98.3-20-20A-TR
	60	Series	10.000000	XC610CT-ND	3.30	2.97	2.48	1.98	XC610TR-ND	1650.00	ECS-100-S-20A-TR
	60	Series	11.059200	XC611CT-ND	3.30	2.97	2.48	1.98	XC611TR-ND	1650.00	ECS-110.5-S-20A-TR
	60	20pF	11.059200	XC612CT-ND	3.30	2.97	2.48	1.98	XC612TR-ND	1650.00	ECS-110.5-20-20A-TR
	60	Series	12.000000	XC613CT-ND	3.30	2.97	2.48	1.98	XC613TR-ND	1650.00	ECS-120-S-20A-TR
	60	20pF	12.000000	XC1011CT-ND	3.30	2.97	2.48	1.98	XC1011TR-ND	1650.00	ECS-120-20-20A-TR
	60	20pF	12.288000	XC1012CT-ND	3.30	2.97	2.48	1.98	XC1012TR-ND	1650.00	ECS-122.8-20-20A-TR
	60	Series	14.318180	XC614CT-ND	3.30	2.97	2.48	1.98	XC614TR-ND	1650.00	ECS-143-S-20A-TR
	60	20pF	14.318180	XC938CT-ND	3.30	2.97	2.48	1.98	XC938TR-ND	1650.00	ECS-143-20-20A-TR
	60	Series	14.745600	XC615CT-ND	3.30	2.97	2.48	1.98	XC615TR-ND	1650.00	ECS-147.4-S-20A-TR
	40	Series	16.000000	XC616CT-ND	3.30	2.97	2.48	1.98	XC616TR-ND	1650.00	ECS-160-S-20A-TR
	40	20pF	16.000000	XC939CT-ND	3.30	2.97	2.48	1.98	XC939TR-ND	1650.00	ECS-160-20-20A-TR
	40	Series	18.432000	XC617CT-ND	3.30	2.97	2.48	1.98	XC617TR-ND	1650.00	ECS-184-S-20A-TR
	40	Series	19.660800	XC618CT-ND	3.30	2.97	2.48	1.98	XC618TR-ND	1650.00	ECS-196.6-S-20A-TR
	40	Series	20.000000	XC619CT-ND	3.30	2.97	2.48	1.98	XC619TR-ND	1650.00	ECS-200-S-20A-TR
	40	20pF	20.000000	XC620CT-ND	3.30	2.97	2.48	1.98	XC620TR-ND	1650.00	ECS-200-20-20A-TR
	40	Series	24.000000	XC621CT-ND	3.30	2.97	2.48	1.98	XC621TR-ND	1650.00	ECS-240-S-20A-TR
	40	12pF	24.000000	XC1009CT-ND	3.30	2.97	2.48	1.98	XC1009TR-ND	1650.00	ECS-240-12-20A-TR
	40	20pF	24.000000	XC622CT-ND	3.30	2.97	2.48	1.98	XC622TR-ND	1650.00	ECS-240-20-20A-TR
	40	Series	24.000140	XC623CT-ND	3.30	2.97	2.48	1.98	XC623TR-ND	1650.00	ECS-240.0014S20A-TR
	40	Series	30.000000	XC630CT-ND	3.30	2.97	2.48	1.98	XC630TR-ND	1650.00	ECS-300-S-20A-F-TR
	80	Series	30.000000	XC624CT-ND*	3.30	2.97	2.48	1.98	XC624TR-ND*	1650.00	ECS-300-S-20A-TR
	40	Series	32.000000	XC631CT-ND	3.30	2.97	2.48	1.98	XC631TR-ND	1650.00	ECS-320-S-20A-F-TR
	80	Series	32.000000	XC625CT-ND*	3.30	2.97	2.48	1.98	XC625TR-ND*	1650.00	ECS-320-S-20A-TR
	80	Series	33.000000	XC626CT-ND*	3.30	2.97	2.48	1.98	XC626TR-ND*	1650.00	ECS-330-S-20A-TR
	40	Series	35.251200	XC632CT-ND	3.30	2.97	2.48	1.98	XC632TR-ND	1650.00	ECS-352.512-S20AF-TR
	40	Series	36.000000	XC633CT-ND	3.30	2.97	2.48	1.98	XC633TR-ND	1650.00	ECS-360-S-20A-F-TR
	80	Series	36.000000	XC627CT-ND*	3.30	2.97	2.48	1.98	XC627TR-ND*	1650.00	ECS-360-S-20A-TR
	40	Series	40.000000	XC634CT-ND	3.30	2.97	2.48	1.98	XC634TR-ND	1650.00	ECS-400-S-20A-F-TR
	80	Series	40.000000	XC628CT-ND*	3.30	2.97	2.48	1.98	XC628TR-ND*	1650.00	ECS-400-S-20A-TR
	80	Series	40.320000	XC629CT-ND*	3.30	2.97	2.48	1.98	XC629TR-ND*	1650.00	ECS-403.2-S-20A-TR
	80	20pF	48.000000	XC940CT-ND	3.30	2.97	2.48	1.98	XC940TR-ND	1650.00	ECS-480-20-20A-TR
NEW! ECX-64A-EN Industrial Temperature, -40° ~ 85°C, ±30ppm NEW!											
4	80	18pF	12.000000	XC1659CT-ND	1.13	1.02	.81	.72	XC1659TR-ND	675.00	ECS-120-18-23A-EN-TR
	80	18pF	12.288000	XC1660CT-ND	1.13	1.02	.81	.72	XC1660TR-ND	675.00	ECS-122.8-18-23A-EN-TR
	80	18pF	13.560000	XC1661CT-ND	1.13	1.02	.81	.72	XC1661TR-ND	675.00	ECS-135.6-18-23A-EN-TR
	80	18pF	14.318180	XC1662CT-ND	1.13	1.02	.81	.72	XC1662TR-ND	675.00	ECS-143-18-23A-EN-TR
	80	18pF	14.745600	XC1663CT-ND	1.13	1.02	.81	.72	XC1663TR-ND	675.00	ECS-147.4-18-23A-EN-TR
	60	18pF	16.000000	XC1664CT-ND	1.13	1.02	.81	.72	XC1664TR-ND	675.00	ECS-160-18-23A-EN-TR
	60	18pF	18.432000	XC1665CT-ND	1.13	1.02	.81	.72	XC1665TR-ND	675.00	ECS-184-18-23A-EN-TR
	60	18pF	19.660800	XC1666CT-ND	1.13	1.02	.81	.72	XC1666TR-ND	675.00	ECS-196.6-18-23A-EN-TR
	40	18pF	20.000000	XC1667CT-ND	1.13	1.02	.81	.72	XC1667TR-ND	675.00	ECS-200-18-23A-EN-TR
	40	18pF	22.118400	XC1668CT-ND	1.13	1.02	.81	.72	XC1668TR-ND	675.00	ECS-221-18-23A-EN-TR
	40	18pF	24.000000	XC1669CT-ND	1.13	1.02	.81	.72	XC1669TR-ND	675.00	ECS-240-18-23A-EN-TR
	40	18pF	24.576000	XC1670CT-ND	1.13	1.02	.81	.72	XC1670TR-ND	675.00	ECS-245.7-18-23A-EN-TR
	40	18pF	25.000000	XC1671CT-ND	1.13	1.02	.81	.72	XC1671TR-ND	675.00	ECS-250-18-23A-EN-TR
	40	18pF	27.000000	XC1672CT-ND	1.13	1.02	.81	.72	XC1672TR-ND	675.00	ECS-270-18-23A-EN-TR
	40	18pF	28.636360	XC1673CT-ND	1.13	1.02	.81	.72	XC1673TR-ND	675.00	ECS-286.3-18-23A-EN-TR
	40	18pF	33.000000	XC1674CT-ND	1.13	1.02	.81	.72	XC1674TR-ND	675.00	ECS-330-18-23A-EN-TR
	40	18pF	40.000000	XC1675CT-ND	1.13	1.02	.81	.72	XC1675TR-ND	675.00	ECS-400-18-23A-EN-TR
	40	18pF	48.000000	XC1676CT-ND	1.13	1.02	.81	.72	XC1676TR-ND	675.00	ECS-480-18-23A-EN-TR

* 3rd Overtone

(Continued)

ECS INC. INTERNATIONAL Surface Mount Quartz Crystals *(Cont.)*

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
ECX-64A-EN Industrial Temperature, -40°C ~ 85°C, ±50ppm											
4	80	Series	14.318180	XC980CT-ND	2.94	2.65	2.21	1.77	XC980TR-ND	1470.00	ECS-143-S-23A-EN-TR
	80	20pF	14.318180	XC979CT-ND	2.94	2.65	2.21	1.77	XC979TR-ND	1470.00	ECS-143-20-23A-EN-TR
	80	20pF	14.745600	XC981CT-ND	2.94	2.65	2.21	1.77	XC981TR-ND	1470.00	ECS-147-20-23A-EN-TR
	60	Series	16.000000	XC983CT-ND	2.94	2.65	2.21	1.77	XC983TR-ND	1470.00	ECS-160-S-23A-EN-TR
	60	20pF	16.000000	XC982CT-ND	2.94	2.65	2.21	1.77	XC982TR-ND	1470.00	ECS-160-20-23A-EN-TR
	60	Series	18.432000	XC985CT-ND	2.94	2.65	2.21	1.77	XC985TR-ND	1470.00	ECS-184-S-23A-EN-TR
	60	20pF	18.432000	XC984CT-ND	2.94	2.65	2.21	1.77	XC984TR-ND	1470.00	ECS-184-20-23A-EN-TR
	60	Series	19.660800	XC987CT-ND	2.94	2.65	2.21	1.77	XC987TR-ND	1470.00	ECS-196-S-23A-EN-TR
	60	20pF	19.660800	XC986CT-ND	2.94	2.65	2.21	1.77	XC986TR-ND	1470.00	ECS-196-20-23A-EN-TR
	40	Series	20.000000	XC989CT-ND	2.94	2.65	2.21	1.77	XC989TR-ND	1470.00	ECS-200-S-23A-EN-TR
	40	20pF	20.000000	XC988CT-ND	2.94	2.65	2.21	1.77	XC988TR-ND	1470.00	ECS-200-20-23A-EN-TR
	40	Series	24.000000	XC991CT-ND	2.94	2.65	2.21	1.77	XC991TR-ND	1470.00	ECS-240-S-23A-EN-TR
	40	20pF	24.000000	XC990CT-ND	2.94	2.65	2.21	1.77	XC990TR-ND	1470.00	ECS-240-20-23A-EN-TR
ECX-64A, -10°C ~ 70°C, ±50ppm											
4	80	Series	14.31818	XC822CT-ND	3.30	2.97	2.48	1.98	XC822TR-ND	1650.00	ECS-143-S-23A-TR
	80	20pF	14.31818	XC821CT-ND	3.30	2.97	2.48	1.98	XC821TR-ND	1650.00	ECS-143-20-23A-TR
	80	20pF	14.74560	XC823CT-ND	3.30	2.97	2.48	1.98	XC823TR-ND	1650.00	ECS-147-20-23A-TR
	60	Series	16.00000	XC825CT-ND	3.30	2.97	2.48	1.98	XC825TR-ND	1650.00	ECS-160-S-23A-TR
	60	20pF	16.00000	XC824CT-ND	3.30	2.97	2.48	1.98	XC824TR-ND	1650.00	ECS-160-20-23A-TR
	60	Series	18.43200	XC827CT-ND	3.30	2.97	2.48	1.98	XC827TR-ND	1650.00	ECS-184-S-23A-TR
	60	20pF	18.43200	XC826CT-ND	3.30	2.97	2.48	1.98	XC826TR-ND	1650.00	ECS-184-20-23A-TR
	60	Series	19.66080	XC829CT-ND	3.30	2.97	2.48	1.98	XC829TR-ND	1650.00	ECS-196-S-23A-TR
	60	20pF	19.66080	XC828CT-ND	3.30	2.97	2.48	1.98	XC828TR-ND	1650.00	ECS-196-20-23A-TR
	40	Series	20.00000	XC831CT-ND	3.30	2.97	2.48	1.98	XC831TR-ND	1650.00	ECS-200-S-23A-TR
	40	20pF	20.00000	XC830CT-ND	3.30	2.97	2.48	1.98	XC830TR-ND	1650.00	ECS-200-20-23A-TR
	40	Series	24.00000	XC832CT-ND	3.30	2.97	2.48	1.98	XC832TR-ND	1650.00	ECS-240-S-23A-TR
ECX-64B, -10°C ~ 70°C, ±50ppm											
5	80	9pF	12.00000	XC1022CT-ND	1.95	1.76	1.47	1.17	XC1022TR-ND	975.00	ECS-120-CD-0330-TR
	80	20pF	12.00000	XC1013CT-ND	3.75	3.38	2.82	2.25	XC1013TR-ND	1875.00	ECS-120-20-23B-TR
	80	Series	14.31818	XC810CT-ND	3.75	3.38	2.82	2.25	XC810TR-ND	1875.00	ECS-143-S-2 3B-TR
	80	20pF	14.31818	XC809CT-ND	3.75	3.38	2.82	2.25	XC809TR-ND	1875.00	ECS-143-20-23B-TR
	80	20pF	14.74560	XC811CT-ND	3.75	3.38	2.82	2.25	XC811TR-ND	1875.00	ECS-147-20-23B-TR
	60	Series	16.00000	XC813CT-ND	3.75	3.38	2.82	2.25	XC813TR-ND	1875.00	ECS-160-S-23B-TR
	60	20pF	16.00000	XC812CT-ND	3.75	3.38	2.82	2.25	XC812TR-ND	1875.00	ECS-160-20-23B-TR
	60	Series	18.43200	XC815CT-ND	3.75	3.38	2.82	2.25	XC815TR-ND	1875.00	ECS-184-S-23B-TR
	60	20pF	18.43200	XC814CT-ND	3.75	3.38	2.82	2.25	XC814TR-ND	1875.00	ECS-184-20-23B-TR
	60	Series	19.66080	XC817CT-ND	3.75	3.38	2.82	2.25	XC817TR-ND	1875.00	ECS-196-S-23B-TR
	60	20pF	19.66080	XC816CT-ND	3.75	3.38	2.82	2.25	XC816TR-ND	1875.00	ECS-196-20-23B-TR
	40	Series	20.00000	XC819CT-ND	3.75	3.38	2.82	2.25	XC819TR-ND	1875.00	ECS-200-S-23B-TR
	40	20pF	20.00000	XC818CT-ND	3.75	3.38	2.82	2.25	XC818TR-ND	1875.00	ECS-200-20-23B-TR
	40	Series	24.00000	XC820CT-ND	3.75	3.38	2.82	2.25	XC820TR-ND	1875.00	ECS-240-S-23B-TR
	40	20pF	24.00000	XC1014CT-ND	3.75	3.38	2.82	2.25	XC1014TR-ND	1875.00	ECS-240-20-23B-TR
	40	18pF	25.00000	XC1015CT-ND	3.75	3.38	2.82	2.25	XC1015TR-ND	1875.00	ECS-250-18-23B-F-TR

⁎ 3rd Overtone

Subminiature Surface Mount Quartz Crystals

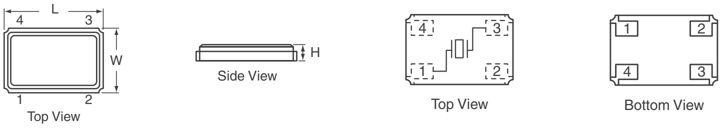

Top View Side View Top View Bottom View

Dimensions (mm)			
Series	**L**	**W**	**H**
ECX-53B	5.0	3.2	0.85
ECX-42	4.0	2.5	0.80
ECX-32	3.2	2.5	0.70
ECX-2236	2.5	2.0	0.55
ECX-1637	2.0	1.6	0.45

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
ECX-53B-DU Automotive Temperature Range, -55°C ~ 125°C, 5.0 x 3.2 x .85mm										
80	20pF	10.000000	XC1510CT-ND	1.77	1.60	1.33	1.07	XC1510TR-ND	885.00	ECS-100-20-30B-DU
80	20pF	12.000000	XC1511CT-ND	1.77	1.60	1.33	1.07	XC1511TR-ND	885.00	ECS-120-20-30B-DU
80	20pF	14.318180	XC1512CT-ND	1.77	1.60	1.33	1.07	XC1512TR-ND	885.00	ECS-143-20-30B-DU
60	20pF	16.000000	XC1513CT-ND	1.77	1.60	1.33	1.07	XC1513TR-ND	885.00	ECS-160-20-30B-DU
40	20pF	20.000000	XC1514CT-ND	1.77	1.60	1.33	1.07	XC1514TR-ND	885.00	ECS-200-20-30B-DU
30	20pF	24.000000	XC1515CT-ND	1.77	1.60	1.33	1.07	XC1515TR-ND	885.00	ECS-240-20-30B-DU
30	20pF	25.000000	XC1516CT-ND	1.77	1.60	1.33	1.07	XC1516TR-ND	885.00	ECS-250-20-30B-DU
30	20pF	27.000000	XC1517CT-ND	1.77	1.60	1.33	1.07	XC1517TR-ND	885.00	ECS-270-20-30B-DU
30	20pF	30.000000	XC1518CT-ND	1.77	1.60	1.33	1.07	XC1518TR-ND	885.00	ECS-300-20-30B-DU
30	20pF	32.000000	XC1519CT-ND	1.77	1.60	1.33	1.07	XC1519TR-ND	885.00	ECS-320-20-30B-DU
30	20pF	40.000000	XC1520CT-ND	2.07	1.87	1.56	1.25	XC1520TR-ND	1035.00	ECS-400-20-30B-DU
30	20pF	48.000000	XC1521CT-ND	2.37	2.14	1.78	1.43	XC1521TR-ND	1185.00	ECS-480-20-30B-DU
ECX-53B, -20°C ~ 70°C, ±50ppm, 5.0 x 3.2 x .85mm										
80	20pF	10.000000	XC1117CT-ND	1.77	1.60	1.33	1.07	XC1117TR-ND	885.00	ECS-100-20-30B-TR
80	20pF	12.000000	XC1118CT-ND	1.77	1.60	1.33	1.07	XC1118TR-ND	885.00	ECS-120-20-30B-TR
80	20pF	14.318180	XC1119CT-ND	1.77	1.60	1.33	1.07	XC1119TR-ND	885.00	ECS-143-20-30B-TR
60	20pF	16.000000	XC1120CT-ND	1.77	1.60	1.33	1.07	XC1120TR-ND	885.00	ECS-160-20-30B-TR
50	20pF	20.000000	XC1121CT-ND	1.77	1.60	1.33	1.07	XC1121TR-ND	885.00	ECS-200-20-30B-TR
50	20pF	24.000000	XC1122CT-ND	1.77	1.60	1.33	1.07	XC1122TR-ND	885.00	ECS-240-20-30B-TR
50	20pF	24.576000	XC1123CT-ND	1.77	1.60	1.33	1.07	XC1123TR-ND	885.00	ECS-245-20-30B-TR
50	20pF	25.000000	XC1124CT-ND	1.77	1.60	1.33	1.07	XC1124TR-ND	885.00	ECS-250-20-30B-TR
50	Series	27.000000	XC1126CT-ND	2.07	1.87	1.56	1.25	XC1126TR-ND	1035.00	ECS-270-S-30B-TR
50	20pF	27.000000	XC1125CT-ND	1.77	1.60	1.33	1.07	XC1125TR-ND	885.00	ECS-270-20-30B-TR
50	Series	30.000000	XC1128CT-ND	2.07	1.87	1.56	1.25	XC1128TR-ND	1035.00	ECS-300-S-30B-TR
50	20pF	32.000000	XC1129CT-ND	2.07	1.87	1.56	1.25	XC1129TR-ND	1035.00	ECS-320-20-30B-TR
50	Series	36.000000	XC1132CT-ND	2.07	1.87	1.56	1.25	XC1132TR-ND	1035.00	ECS-360-S-30B-TR
50	20pF	36.000000	XC1131CT-ND	2.07	1.87	1.56	1.25	XC1131TR-ND	1035.00	ECS-360-20-30B-TR
50	20pF	40.000000	XC1133CT-ND	2.37	2.14	1.78	1.43	XC1133TR-ND	1185.00	ECS-400-20-30B-TR
50	20pF	50.000000	XC1135CT-ND	2.37	2.14	1.78	1.43	XC1135TR-ND	1185.00	ECS-500-20-30B-TR
ECX-42 For Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 4.0 x 2.5 x .80mm										
80	9pF	12.000000	XC1608CT-ND	1.65	1.49	1.24	.99	XC1608TR-ND	825.00	ECS-120-9-42-CKM-TR
80	9pF	13.000000	XC1609CT-ND	1.65	1.49	1.24	.99	XC1609TR-ND	825.00	ECS-130-9-42-CKM-TR

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Subminiature Surface Mount Quartz Crystals *(Cont.)*

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
80	9pF	16.000000	XC1611CT-ND	1.65	1.49	1.24	.99	XC1611TR-ND	825.00	ECS-160-9-42-CKM-TR
60	13pF	24.000000	XC1613CT-ND	1.65	1.49	1.24	.99	XC1613TR-ND	825.00	ECS-240-13-42-CKM-TR
60	13pF	26.000000	XC1614CT-ND	1.65	1.49	1.24	.99	XC1614TR-ND	825.00	ECS-260-13-42-CKM-TR
60	13pF	32.000000	XC1615CT-ND	1.74	1.57	1.31	1.05	XC1615TR-ND	870.00	ECS-320-13-42-CKM-TR
ECX-32, -20°C ~ 70°C, ±50ppm, 3.2 x 2.5 x .70mm										
100	20pF	16.000000	XC1137CT-ND	3.57	3.22	2.68	2.15	XC1137TR-ND	1785.00	ECS-160-20-33-TR
100	20pF	18.432000	XC1138CT-ND	3.57	3.22	2.68	2.15	XC1138TR-ND	1785.00	ECS-184-20-33-TR
100	20pF	19.660800	XC1139CT-ND	3.57	3.22	2.68	2.15	XC1139TR-ND	1785.00	ECS-196-20-33-TR
100	20pF	20.000000	XC1140CT-ND	3.57	3.22	2.68	2.15	XC1140TR-ND	1785.00	ECS-200-20-33-TR
100	20pF	24.000000	XC1141CT-ND	3.57	3.22	2.68	2.15	XC1141TR-ND	1785.00	ECS-240-20-33-TR
100	20pF	25.000000	XC1142CT-ND	3.57	3.22	2.68	2.15	XC1142TR-ND	1785.00	ECS-250-20-33-TR
100	20pF	27.000000	XC1143CT-ND	3.57	3.22	2.68	2.15	XC1143TR-ND	1785.00	ECS-270-20-33-TR
50	Series	30.000000	XC1145CT-ND	3.57	3.22	2.68	2.15	XC1145TR-ND	1785.00	ECS-300-S-33-TR
50	20pF	30.000000	XC1144CT-ND	3.57	3.22	2.68	2.15	XC1144TR-ND	1785.00	ECS-300-20-33-TR
50	Series	32.000000	XC1147CT-ND	3.57	3.22	2.68	2.15	XC1147TR-ND	1785.00	ECS-320-S-33-TR
50	20pF	32.000000	XC1146CT-ND	3.57	3.22	2.68	2.15	XC1146TR-ND	1785.00	ECS-320-20-33-TR
50	20pF	36.000000	XC1148CT-ND	3.57	3.22	2.68	2.15	XC1148TR-ND	1785.00	ECS-360-20-33-TR
50	20pF	40.000000	XC1150CT-ND	3.57	3.22	2.68	2.15	XC1150TR-ND	1785.00	ECS-400-20-33-TR
ECX-2236 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.5 x 2.0 x .55mm										
100	8pF	16.000000	XC1552CT-ND	3.45	3.11	2.59	2.07	XC1552TR-ND	1725.00	ECS-160-8-36CKM
100	8pF	18.432000	XC1553CT-ND	3.45	3.11	2.59	2.07	XC1553TR-ND	1725.00	ECS-184-8-36CKM
100	8pF	19.200000	XC1554CT-ND	3.45	3.11	2.59	2.07	XC1554TR-ND	1725.00	ECS-192-8-36CKM
100	8pF	20.000000	XC1556CT-ND	3.45	3.11	2.59	2.07	XC1556TR-ND	1725.00	ECS-200-8-36CKM
100	8pF	24.000000	XC1557CT-ND	3.45	3.11	2.59	2.07	XC1557TR-ND	1725.00	ECS-240-8-36CKM
100	8pF	25.000000	XC1559CT-ND	3.45	3.11	2.59	2.07	XC1559TR-ND	1725.00	ECS-250-8-36CKM
100	8pF	26.000000	XC1560CT-ND	3.45	3.11	2.59	2.07	XC1560TR-ND	1725.00	ECS-260-8-36CKM
100	8pF	27.000000	XC1561CT-ND	3.45	3.11	2.59	2.07	XC1561TR-ND	1725.00	ECS-270-8-36CKM
100	8pF	30.000000	XC1562CT-ND	3.45	3.11	2.59	2.07	XC1562TR-ND	1725.00	ECS-300-8-36CKM
100	8pF	32.000000	XC1563CT-ND	3.45	3.11	2.59	2.07	XC1563TR-ND	1725.00	ECS-320-8-36CKM
100	8pF	48.000000	XC1566CT-ND	3.45	3.11	2.59	2.07	XC1566TR-ND	1725.00	ECS-480-8-36CKM
100	8pF	80.000000	XC1567CT-ND	5.37	4.84	4.03	3.23	XC1567TR-ND	2685.00	ECS-800-8-36CKM
ECX-1637 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.0 x 1.6 x .45mm										
100	8pF	24.000000	XC1543CT-ND	3.87	3.49	2.91	2.33	XC1543TR-ND	1935.00	ECS-240-8-37CKM
100	8pF	26.000000	XC1545CT-ND	3.87	3.49	2.91	2.33	XC1545TR-ND	1935.00	ECS-260-8-37CKM
100	8pF	27.000000	XC1546CT-ND	3.87	3.49	2.91	2.33	XC1546TR-ND	1935.00	ECS-270-8-37CKM
100	8pF	32.000000	XC1547CT-ND	3.87	3.49	2.91	2.33	XC1547TR-ND	1935.00	ECS-320-8-37CKM

32.768kHz Crystals and Oscillators

Digi-Reel®

Fig. 1

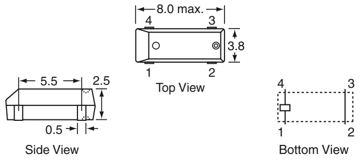

Fig. 2

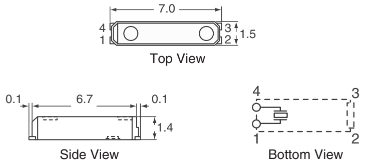

Fig. 3

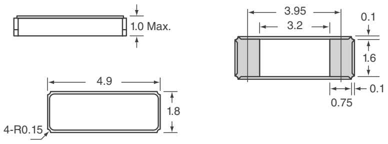

Fig. 4

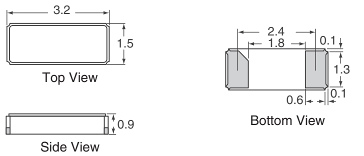

Fig. 5

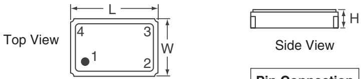

Dimensions (mm)			
Mfg. Part No.	**L**	**W**	**H**
ECS-327SMO	6.5	4.0	2.0
ECS-327KO	4.0	2.5	0.8

Pin Connection	
1	Tri-State
2	Ground
3	Output
4	VDD

Fig. 6

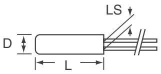

Dimensions (mm)			
Mfg. Part No.	**L**	**D**	**LS**
ECS-3X8 **ECS-3X8X**	8.2	3.1	1.1
ECS-.327-12.5-13 **ECS-.327-12.5-13X**	6.2	2.1	0.7
ECS-.327-8-14 **ECS-.327-8-14X**	5.1	1.5	0.45

Fig.	ESR Maximum (Ω)	Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	ECS Part No.
Surface Mount Crystals										
1	50k	6.0	XC746CT-ND	1.08	.90	.72	XC746TR-ND	3,000	560.00/M	ECS-.327-6-17-TR
	50k	6.0	XC1307CT-ND◆	1.08	.90	.72	XC1307TR-ND◆	3,000	560.00/M	ECS-.327-6-17X-TR
	50k	12.5	XC488CT-ND	1.08	.90	.72	XC488TR-ND	3,000	560.00/M	ECS-.327-12.5-17-TR
	50k	12.5	XC1195CT-ND◆	1.08	.90	.72	XC1195TR-ND◆	3,000	560.00/M	ECS-.327-12.5-17X-TR
2	65k	7.0	XC1657CT-ND◆	.90	.81	.68	XC1657TR-ND◆	3,000	450.00/M	ECS-.327-7-38-TR
	65k	12.5	XC1616CT-ND◆	.90	.81	.68	XC1616TR-ND◆	3,000	450.00/M	ECS-.327-12.5-38
3	70k	12.5	XC1658CT-ND◆	.96	.87	.72	XC1658TR-ND◆	3,000	480.00/M	ECS-.327-12.5-39-TR
4	70k	7.0	XC1656CT-ND◆	1.26	1.14	.95	XC1656TR-ND◆	3,000	630.00/M	ECS-.327-7-34B-TR
	70k	12.5	XC1617CT-ND◆	1.26	1.14	.95	XC1617TR-ND◆	3,000	630.00/M	ECS-.327-12.5-34B
Surface Mount Oscillators — RoHS Compliant										
5	—	—	XC777CT-ND	6.74	5.52	4.90	XC777TR-ND	2,000	3430.00/M	ECS-327SMO-TR
	—	—	XC1489CT-ND	7.17	6.46	5.38	XC1489TR-ND	1,000	3585.00	ECS-327KO-TR
Cylinder Type Crystals										
6	35k	12.5	X801-ND†	.30	.27	.22	—	—	—	ECS-3X8
	35k	12.5	X1123-ND†◆	.30	.27	.22	—	—	—	ECS-3X8X
	35k	12.5	X802-ND†	.30	.27	.22	—	—	—	ECS-.327-12.5-13
	35k	12.5	X1124-ND†◆	.30	.27	.22	—	—	—	ECS-.327-12.5-13X
	40k	8.0	X803-ND†	2.63	2.37	1.89	—	—	—	ECS-.327-8-14
	40k	8.0	X1125-ND†◆	.63	.57	.45	—	—	—	ECS-.327-8-14X

◆ *RoHS Compliant* † Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ECS INC. INTERNATIONAL Quartz Crystals — ECS-31 Series

Specifications: • **Frequency Tolerance:** ±30ppm @ 25°C • **Temperature Coefficient:** 0.034ppm/°C • **Operating Temperature:** -10°C ~ 60°C • **Storage Temperature:** -40°C ~ 85°C • **Equivalent Series Resistance (ESR):** 30kΩ ~ 50kΩ Maximum • **Shunt Capacitance:** .8pF ~ 1.7pF • **Drive Level:** 1µW Maximum • **Insulation Resistance:** 500MΩ Minimum/DC 100V ±15V • **Aging (First Year):** ±5ppm Maximum @25°C ±3°C

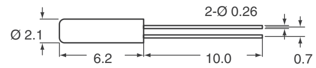

Frequency (kHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-31							
32.000	12.5pF	XC972-ND	.83	.75	.60	.53	ECS-.320-12.5-13
40.000	12.5pF	XC973-ND	.83	.75	.60	.53	ECS-.400-12.5-13
60.000	12.5pF	XC974-ND	.83	.75	.60	.53	ECS-.600-12.5-13
65.536	12.5pF	XC975-ND	.83	.75	.60	.53	ECS-.655-12.5-13
75.000	12.5pF	XC976-ND	.83	.75	.60	.53	ECS-.750-12.5-13
100.000	12.5pF	XC977-ND	.83	.75	.60	.53	ECS-1.00-12.5-13
125.000	12.5pF	XC999-ND	.83	.75	.60	.53	ECS-1.25-12.5-13
153.600	12.5pF	XC978-ND	.83	.75	.60	.53	ECS-1.536-12.5-13
ECS-31X — RoHS Compliant							
32.000	12.5pF	XC1392-ND	.83	.75	.60	.53	ECS-.320-12.5-13X
65.536	12.5pF	XC1393-ND	.83	.75	.60	.53	ECS-.655-12.5-13X
100.000	12.5pF	XC1394-ND	.83	.75	.60	.53	ECS-1.00-12.5-13X
153.600	12.5pF	XC1395-ND	.83	.75	.60	.53	ECS-1.536-12.5-13X

Quartz Crystals — High Frequency Miniature

Specifications: • **Frequency Tolerance:** ±50ppm @ 25°C and over Operating Temperature • **Operating Temperature:** -10°C ~ 60°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 5pF Maximum • **Drive Level:** 50µW ~ 100µW • **Insulation Resistance:** 500MΩ Minimum/DC 100V ±5 • **Aging (First Year):** ±5ppm Maximum @ 25°C ±3°C

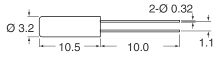

3X10

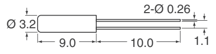

3X9

Frequency (MHz)	Equivalent Series Resistance (ESR) (Ω) Maximum	Mode
3.5 ~ 4	200	Fundamental
4 ~ 6	150	
6 ~ 10	100	
10 ~ 30	50	
30 ~ 36	100	3rd O/T
36 ~ 70	80	

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-3X10						
3.579545	XC944-ND	.73	.66	.53	.47	ECS-35-18-10
3.686400	XC945-ND	.73	.66	.53	.47	ECS-36-18-10
4.000000	XC946-ND	.73	.66	.53	.47	ECS-40-18-10
4.915200	XC947-ND	.73	.66	.53	.47	ECS-49-18-10
6.000000	XC948-ND	.73	.66	.53	.47	ECS-60-18-10
7.372810	XC949-ND	.73	.66	.53	.47	ECS-73-18-10
8.000000	XC950-ND	.73	.66	.53	.47	ECS-80-18-10
ECS-3X10X — RoHS Compliant						
3.579545	XC1371-ND	.73	.66	.53	.47	ECS-35-18-10X
3.686400	XC1372-ND	.73	.66	.53	.47	ECS-36-18-10X
4.000000	XC1373-ND	.73	.66	.53	.47	ECS-40-18-10X
4.915200	XC1374-ND	.73	.66	.53	.47	ECS-49-18-10X
6.000000	XC1375-ND	.73	.66	.53	.47	ECS-60-18-10X
7.372800	XC1376-ND	.73	.66	.53	.47	ECS-73-18-10X
8.000000	XC1377-ND	.73	.66	.53	.47	ECS-80-18-10X

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-3X9						
8.192000	XC951-ND	.73	.66	.53	.47	ECS-81.92-18-9
9.830400	XC952-ND	.73	.66	.53	.47	ECS-98.3-18-9
10.000000	XC953-ND	.73	.66	.53	.47	ECS-100-18-9
11.059200	XC954-ND	.73	.66	.53	.47	ECS-110.5-18-9
12.000000	XC955-ND	.73	.66	.53	.47	ECS-120-18-9
14.318180	XC956-ND	.73	.66	.53	.47	ECS-143-18-9
14.745600	XC957-ND	.73	.66	.53	.47	ECS-147.4-18-9
16.000000	XC958-ND	.73	.66	.53	.47	ECS-160-18-9
18.432000	XC959-ND	.73	.66	.53	.47	ECS-184-18-9
19.660800	XC960-ND	.73	.66	.53	.47	ECS-196.6-18-9
20.000000	XC961-ND	.73	.66	.53	.47	ECS-200-18-9
24.000000	XC962-ND	.73	.66	.53	.47	ECS-240-18-9
24.576000	XC963-ND	.73	.66	.53	.47	ECS-245.7-18-9
25.000000	XC964-ND	.73	.66	.53	.47	ECS-250-18-9
27.000000	XC965-ND	.73	.66	.53	.47	ECS-270-18-9
32.000000	XC966-ND	.73	.66	.53	.47	ECS-320-18-9-F
32.768000	XC967-ND	.73	.66	.53	.47	ECS-327-18-9-F
40.000000	XC968-ND	.73	.66	.53	.47	ECS-400-18-10-3OT
50.000000	XC969-ND	.73	.66	.53	.47	ECS-500-18-9-3OT
ECS-3X9X — RoHS Compliant						
10.000000	XC1378-ND	.73	.66	.53	.47	ECS-100-18-9X
11.059200	XC1379-ND	.73	.66	.53	.47	ECS-110.5-18-9X
12.000000	XC1380-ND	.73	.66	.53	.47	ECS-120-18-9X
14.318180	XC1381-ND	.73	.66	.53	.47	ECS-143-18-9X
14.745600	XC1382-ND	.73	.66	.53	.47	ECS-147.4-18-9X
16.000000	XC1383-ND	.73	.66	.53	.47	ECS-160-18-9X
18.432000	XC1384-ND	.73	.66	.53	.47	ECS-184-18-9X
20.000000	XC1386-ND	.73	.66	.53	.47	ECS-200-18-9X
24.576000	XC1387-ND	.73	.66	.53	.47	ECS-245.7-18-9X
25.000000	XC1388-ND	.73	.66	.53	.47	ECS-250-18-9X
27.000000	XC1389-ND	.73	.66	.53	.47	ECS-270-18-9X
32.000000	XC1390-ND	.73	.66	.53	.47	ECS-320-18-9X-F

Through-Hole Quartz Crystals

Fig. 1

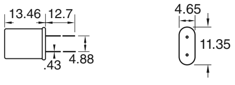

Fig. 2

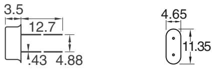

Fig. 3

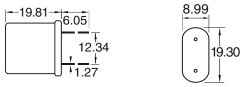

Fig. 4

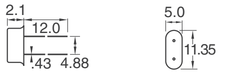

Series	Frequency Tolerance @ 25°C ppm	Frequency Stability Over Op. Temp. Range ppm	Operating Temp. Range	Package Height (mm)
HC-49U	±30	±50	-10°C ~ 70°C	13.46
HC-49UX	±30	±50	-10°C ~ 70°C	13.46
HC-49US	±30	±50	-10°C ~ 70°C	3.5
HC-49USX	±30	±50	-10°C ~ 70°C	3.5
HC-49USX-EN	±30	±50	-40°C ~ 85°C	3.5
HC-49US-DN	±30	±100	-40°C ~ 85°C	3.5
HC-49USX-DN	±30	±100	-40°C ~ 85°C	3.5
HC-49USSX	±30	±50	-10°C ~ 70°C	2.1

HC49INS-ND Base Insulator — ***RoHS Compliant*** .... **$.90/10 $7.50/100**

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
HC-49U								
1	1.000000	13pF	X066B-ND‡	17.88	14.85	8.09	7.54	ECS-10-13-1H
	1.843200	Series	X002-ND	1.95	1.62	1.29	1.00	ECS-18-S-1
	1.843200	13pF	X067-ND	1.95	1.62	1.29	1.00	ECS-18-13-1
	2.000000	Series	X004-ND	1.95	1.62	1.29	1.00	ECS-20-S-1
	2.000000	20pF	X068-ND	1.95	1.62	1.29	1.00	ECS-20-20-1
	2.048000	12pF	X098-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1
	2.457600	32pF	X069-ND	1.63	1.35	1.08	.83	ECS-24-32-1
	2.500000	Series	X070-ND	1.63	1.35	1.08	.83	ECS-25-S-1
	3.000000	Series	X009-ND	1.63	1.35	1.08	.83	ECS-30-S-1
	3.276800	17pF	X022-ND	.65	.54	.43	.34	ECS-32-17-1
	3.579550	Series	X011-ND	.40	.36	.32	.29	ECS-35-S-1
	3.579550	17pF	X049-ND	.40	.36	.32	.29	ECS-35-17-1
	3.686400	Series	X080-ND	.40	.36	.32	.29	ECS-36-S-1
	3.686400	18pF	X071-ND	.40	.36	.32	.29	ECS-36-18-1
	3.932160	17pF	X013-ND	.40	.36	.32	.29	ECS-39-17-1
	4.000000	Series	X081-ND	.40	.36	.32	.29	ECS-40-S-1
	4.000000	20pF	X006-ND	.40	.36	.32	.29	ECS-40-20-1
	4.032000	Series	X015-ND	.40	.36	.32	.29	ECS-40.3-S-1
	4.032000	20pF	X072-ND	.40	.36	.32	.29	ECS-40.3-20-1

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1	4.096000	20pF	X082-ND	.40	.36	.32	.29	ECS-41-20-1
	4.194304	12pF	X007-ND	.40	.36	.32	.29	ECS-42-12-1
	4.433620	20pF	X083-ND	.40	.36	.32	.29	ECS-44-20-1
	4.915200	Series	X050-ND	.40	.36	.32	.29	ECS-49-S-1
	4.915200	20pF	X084-ND	.40	.36	.32	.29	ECS-49-20-1
	5.000000	Series	X099-ND	.40	.36	.32	.29	ECS-50-S-1
	5.000000	20pF	X051-ND	.40	.36	.32	.29	ECS-50-20-1
	5.068000	Series	X052-ND	.40	.36	.32	.29	ECS-51-S-1
	5.068000	20pF	X085-ND	.40	.36	.32	.29	ECS-51-20-1
	5.185000	Series	X053-ND	.40	.36	.32	.29	ECS-52-S-1
	5.185000	32pF	X016-ND	.40	.36	.32	.29	ECS-52-32-1
	5.990400	Series	X073-ND	.40	.36	.32	.29	ECS-59-S-1
	5.990400	20pF	X017-ND	.40	.36	.32	.29	ECS-59.9-20-1
	6.000000	Series	X026-ND	.40	.36	.32	.29	ECS-60-S-1
	6.000000	32pF	X086-ND	.40	.36	.32	.29	ECS-60-32-1
	6.144000	32pF	X054-ND	.40	.36	.32	.29	ECS-61-32-1
	6.553600	12pF	X018-ND	.40	.36	.32	.29	ECS-65-12-1
	7.372800	Series	X074-ND	.40	.36	.32	.29	ECS-73-S-1
	7.372800	20pF	X019-ND	.40	.36	.32	.29	ECS-73-20-1

‡ 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

(Continued)

Through-Hole Quartz Crystals *(Cont.)*

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1	7.680000	20pF	X020-ND	.40	.36	.32	.29	ECS-76.8-20-1
	8.000000	Series	X056-ND	.40	.36	.32	.29	ECS-80-S-1
	8.000000	18pF	X100-ND	.40	.36	.32	.29	ECS-80-18-1
	8.000000	20pF	X021-ND	.40	.36	.32	.29	ECS-80-20-1
	8.000000	32pF	X137-ND	.40	.36	.32	.29	ECS-80-32-1
	9.216000	Series	X075-ND	.40	.36	.32	.29	ECS-92.1-S-1
	9.216000	20pF	X138-ND	.40	.36	.32	.29	ECS-92.1-20-1
	9.830400	Series	X023-ND	.40	.36	.32	.29	ECS-98.3-S-1
	9.830400	20pF	X087-ND	.40	.36	.32	.29	ECS-98.3-20-1
	10.000000	Series	X057-ND	.40	.36	.32	.29	ECS-100-S-1
	10.738640	Series	X024-ND	.40	.36	.32	.29	ECS-107.3-S-1
	11.000000	Series	X088-ND	.40	.36	.32	.29	ECS-110-S-1
	11.046000	Series	X025-ND	.40	.36	.32	.29	ECS-110.4-S-1
	11.059200	Series	X078-ND	.40	.36	.32	.29	ECS-110.5-S-1
	11.059200	20pF	X089-ND	.40	.36	.32	.29	ECS-110.5-20-1
	11.059200	32pF	X139-ND	.40	.36	.32	.29	ECS-110.5-32-1
	11.228000	Series	X028-ND	.40	.36	.32	.29	ECS-112.2-S-1
	11.520000	Series	X140-ND	.40	.36	.32	.29	ECS-115.2-S-1
	11.981350	Series	X029-ND	.40	.36	.32	.29	ECS-119.8-S-1
	12.000000	Series	X058-ND	.40	.36	.32	.29	ECS-120-S-1
	12.000000	32pF	X030-ND	.40	.36	.32	.29	ECS-120-32-1
	12.000390	18pF	X147-ND	.40	.36	.32	.29	ECS-120.003-18-1
	12.096000	Series	X031-ND	.40	.36	.32	.29	ECS-121-S-1
	12.288000	Series	X090-ND	.40	.36	.32	.29	ECS-122.8-S-1
	12.288000	20pF	X141-ND	.40	.36	.32	.29	ECS-122.8-20-1
	13.516800	Series	X032-ND	.40	.36	.32	.29	ECS-135-S-1
	14.318180	Series	X091-ND	.40	.36	.32	.29	ECS-143-S-1
	14.690000	Series	X033-ND	.40	.36	.32	.29	ECS-146-S-1
	14.745600	Series	X092-ND	.40	.36	.32	.29	ECS-147.4-S-1
	14.745600	20pF	X142-ND	.40	.36	.32	.29	ECS-147.4-20-1
	15.000000	Series	X059-ND	.40	.36	.32	.29	ECS-150-S-1
	16.000000	Series	X077-ND	.40	.36	.32	.29	ECS-160-S-1
	16.000000	20pF	X143-ND	.40	.36	.32	.29	ECS-160-20-1
	16.000310	18pF	X148-ND	.40	.36	.32	.29	ECS-160.003-18-1
	18.000000	Series	X060-ND	.40	.36	.32	.29	ECS-180-S-1
	18.000000	20pF	X144-ND	.40	.36	.32	.29	ECS-180-20-1
	18.432000	Series	X061-ND	.40	.36	.32	.29	ECS-184-S-1
	18.432000	18pF	X145-ND	.40	.36	.32	.29	ECS-184-18-1
	18.432000	20pF	X146-ND	.40	.36	.32	.29	ECS-184-20-1
	19.660800	Series	X094-ND	.40	.36	.32	.29	ECS-196.6-S-1
	19.660800	20pF	X035-ND	.40	.36	.32	.29	ECS-196.6-20-1
	20.000000	Series	X062-ND	.40	.36	.32	.29	ECS-200-S-1
	20.000000	20pF	X036-ND	.40	.36	.32	.29	ECS-200-20-1
	22.118400	Series	X063-ND	.40	.36	.32	.29	ECS-221-S-1
	24.000000	Series	X095-ND	.40	.36	.32	.29	ECS-240-S-1
	24.000000	20pF	X037-ND	.40	.36	.32	.29	ECS-240-20-1
	24.000100	18pF	X149-ND	.40	.36	.32	.29	ECS-240.001-18-1
	35.251200	18pF	X151-ND†	.50	.45	.36	.32	ECS-352.5-18-1
	38.000530	18pF	X150-ND†	.50	.45	.36	.32	ECS-380.005-18-1
	40.320000	18pF	X152-ND†	.50	.45	.36	.32	ECS-403.2-18-1
	48.000000	Series	X065-ND†	.40	.36	.32	.29	ECS-480-S-1
	48.000000	20pF	XC943-ND†	.50	.45	.36	.32	ECS-480-20-1
	49.860000	20pF	X038-ND†	.40	.36	.32	.29	ECS-498.6-20-1
HC-49UX — RoHS Compliant								
1	1.000000	13pF	X999-ND‡	17.88	14.85	8.09	7.54	ECS-10-13-1XH
	1.843200	Series	X969-ND	1.95	1.62	1.29	1.00	ECS-18-S-1X
	1.843200	13pF	X1000-ND	1.95	1.62	1.29	1.00	ECS-18-13-1X
	2.000000	Series	X970-ND	1.95	1.62	1.29	1.00	ECS-20-S-1X
	2.000000	20pF	X1001-ND	1.95	1.62	1.29	1.00	ECS-20-20-1X
	2.048000	12pF	X1025-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1X
	2.457600	32pF	X1002-ND	1.63	1.35	1.08	.83	ECS-24-32-1X
	2.500000	Series	X1003-ND	1.63	1.35	1.08	.83	ECS-25-S-1X
	3.000000	Series	X973-ND	1.63	1.35	1.08	.83	ECS-30-S-1X
	3.276800	17pF	X980-ND	.65	.54	.43	.34	ECS-32-17-1X
	3.579550	Series	X974-ND	.40	.36	.32	.29	ECS-35-S-1X
	3.579550	17pF	X987-ND	.40	.36	.32	.29	ECS-35-17-1X
	3.686400	Series	X1010-ND	.40	.36	.32	.29	ECS-36-S-1X
	3.686400	18pF	X1004-ND	.40	.36	.32	.29	ECS-36-18-1X
	3.932160	17pF	X975-ND	.40	.36	.32	.29	ECS-39-17-1X
	4.000000	Series	X1011-ND	.40	.36	.32	.29	ECS-40-S-1X
	4.000000	20pF	X971-ND	.40	.36	.32	.29	ECS-40-20-1X
	4.032000	Series	X976-ND	.40	.36	.32	.29	ECS-40.3-S-1X
	4.032000	20pF	X1005-ND	.40	.36	.32	.29	ECS-40.3-20-1X
	4.096000	20pF	X1012-ND	.40	.36	.32	.29	ECS-41-20-1X
	4.194304	12pF	X972-ND	.40	.36	.32	.29	ECS-42-12-1X
	4.433618	20pF	X1013-ND	.40	.36	.32	.29	ECS-44-20-1X
	4.915200	Series	X988-ND	.40	.36	.32	.29	ECS-49-S-1X
	4.915200	20pF	X1014-ND	.40	.36	.32	.29	ECS-49-20-1X
	5.000000	Series	X1026-ND	.40	.36	.32	.29	ECS-50-S-1X
	5.000000	20pF	X989-ND	.40	.36	.32	.29	ECS-50-20-1X
	5.068000	Series	X990-ND	.40	.36	.32	.29	ECS-51-S-1X
	5.068000	20pF	X1015-ND	.40	.36	.32	.29	ECS-51-20-1X
	6.000000	Series	X982-ND	.40	.36	.32	.29	ECS-60-S-1X
	6.000000	32pF	X1016-ND	.40	.36	.32	.29	ECS-60-32-1X
	6.553600	12pF	X977-ND	.40	.36	.32	.29	ECS-65-12-1X
	7.372800	Series	X1006-ND	.40	.36	.32	.29	ECS-73-S-1X
	7.372800	20pF	X978-ND	.40	.36	.32	.29	ECS-73-20-1X
	8.000000	Series	X991-ND	.40	.36	.32	.29	ECS-80-S-1X
	8.000000	18pF	X1027-ND	.40	.36	.32	.29	ECS-80-18-1X
	8.000000	20pF	X979-ND	.40	.36	.32	.29	ECS-80-20-1X
	8.000000	32pF	X1028-ND	.40	.36	.32	.29	ECS-80-32-1X
	9.216000	Series	X1007-ND	.40	.36	.32	.29	ECS-92.1-S-1X
	9.216000	20pF	X1029-ND	.40	.36	.32	.29	ECS-92.1-20-1X
	9.830400	Series	X981-ND	.40	.36	.32	.29	ECS-98.3-S-1X

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1	9.830400	20pF	X1017-ND	.40	.36	.32	.29	ECS-98.3-20-1X
	10.000000	Series	X992-ND	.40	.36	.32	.29	ECS-100-S-1X
	11.000000	Series	X1018-ND	.40	.36	.32	.29	ECS-110-S-1X
	11.059200	Series	X1009-ND	.40	.36	.32	.29	ECS-110.5-S-1X
	11.059200	20pF	X1019-ND	.40	.36	.32	.29	ECS-110.5-20-1X
	11.059200	32pF	X1030-ND	.40	.36	.32	.29	ECS-110.5-32-1X
	12.000000	Series	X993-ND	.40	.36	.32	.29	ECS-120-S-1X
	12.000000	32pF	X983-ND	.40	.36	.32	.29	ECS-120-32-1X
	12.288000	Series	X1020-ND	.40	.36	.32	.29	ECS-122.8-S-1X
	12.288000	20pF	X1031-ND	.40	.36	.32	.29	ECS-122.8-20-1X
	14.318180	Series	X1021-ND	.40	.36	.32	.29	ECS-143-S-1X
	14.745600	Series	X1022-ND	.40	.36	.32	.29	ECS-147.4-S-1X
	14.745600	20pF	X1032-ND	.40	.36	.32	.29	ECS-147.4-20-1X
	15.000000	Series	X994-ND	.40	.36	.32	.29	ECS-150-S-1X
	16.000000	Series	X1008-ND	.40	.36	.32	.29	ECS-160-S-1X
	16.000000	20pF	X1033-ND	.40	.36	.32	.29	ECS-160-20-1X
	18.000000	20pF	X1034-ND	.40	.36	.32	.29	ECS-180-20-1X
	18.432000	Series	X995-ND	.40	.36	.32	.29	ECS-184-S-1X
	18.432000	18pF	X1035-ND	.40	.36	.32	.29	ECS-184-18-1X
	18.432000	20pF	X1036-ND	.40	.36	.32	.29	ECS-184-20-1X
	19.660800	Series	X1023-ND	.40	.36	.32	.29	ECS-196.6-S-1X
	19.660800	20pF	X984-ND	.40	.36	.32	.29	ECS-196.6-20-1X
	20.000000	Series	X996-ND	.40	.36	.32	.29	ECS-200-S-1X
	20.000000	20pF	X985-ND	.40	.36	.32	.29	ECS-200-20-1X
	22.118400	Series	X997-ND	.40	.36	.32	.29	ECS-221-S-1X
	24.000000	Series	X1024-ND	.40	.36	.32	.29	ECS-240-S-1X
	24.000000	20pF	X986-ND	.40	.36	.32	.29	ECS-240-20-1X
	48.000000	Series	X998-ND†	.40	.36	.32	.29	ECS-480-S-1X
HC-49US								
2	3.579550	Series	X153-ND	.58	.52	.42	.37	ECS-35-S-4
	3.579550	17pF	X079-ND	.58	.52	.42	.37	ECS-35-17-4
	3.686400	Series	X403-ND	.58	.52	.42	.37	ECS-36-S-4
	3.686400	18pF	X402-ND	.58	.52	.42	.37	ECS-36-18-4
	4.000000	Series	X404-ND	.58	.52	.42	.37	ECS-40-S-4
	4.000000	20pF	X405-ND	.58	.52	.42	.37	ECS-40-20-4
	4.032000	Series	X155-ND	.58	.52	.42	.37	ECS-40.3-S-4
	4.032000	20pF	X154-ND	.58	.52	.42	.37	ECS-40.3-20-4
	4.096000	20pF	X156-ND	.58	.52	.42	.37	ECS-41-20-4
	4.194304	12pF	X406-ND	.58	.52	.42	.37	ECS-42-12-4
	4.194304	16pF	X157-ND	.58	.52	.42	.37	ECS-42-16-4
	4.433618	20pF	X407-ND	.58	.52	.42	.37	ECS-44-20-4
	4.915200	Series	X408-ND	.58	.52	.42	.37	ECS-49-S-4
	4.915200	20pF	X409-ND	.58	.52	.42	.37	ECS-49-20-4
	5.000000	Series	X158-ND	.58	.52	.42	.37	ECS-50-S-4
	5.000000	20pF	X410-ND	.58	.52	.42	.37	ECS-50-20-4
	5.068000	Series	X159-ND	.58	.52	.42	.37	ECS-51-S-4
	5.068000	20pF	X411-ND	.58	.52	.42	.37	ECS-51-20-4
	5.185000	Series	X160-ND	.58	.52	.42	.37	ECS-52-S-4
	5.185000	32pF	X064-ND	.75	.63	.50	.39	ECS-52-32-4
	5.990400	Series	X161-ND	.58	.52	.42	.37	ECS-59-S-4
	5.990400	20pF	X162-ND	.58	.52	.42	.37	ECS-59.9-20-4
	6.000000	Series	X412-ND	.58	.52	.42	.37	ECS-60-S-4
	6.000000	32pF	X413-ND	.58	.52	.42	.37	ECS-60-32-4
	6.144000	32pF	X414-ND	.58	.52	.42	.37	ECS-61-32-4
	6.500000	20pF	X415-ND	.58	.52	.42	.37	ECS-65-20-4
	7.372800	Series	X416-ND	.58	.52	.42	.37	ECS-73-S-4
	7.372800	20pF	X076-ND	.75	.63	.50	.39	ECS-73-20-4
	7.680000	20pF	X163-ND	.58	.52	.42	.37	ECS-76.8-20-4
	8.000000	Series	X417-ND	.58	.52	.42	.37	ECS-80-S-4
	8.000000	18pF	X164-ND	.58	.52	.42	.37	ECS-80-18-4
	8.000000	20pF	X165-ND	.58	.52	.42	.37	ECS-80-20-4
	8.000000	32pF	X166-ND	.58	.52	.42	.37	ECS-80-32-4
	8.500000	Series	X418-ND	.58	.52	.42	.37	ECS-85-S-4
	9.000000	Series	X419-ND	.58	.52	.42	.37	ECS-90-S-4
	9.216000	Series	X167-ND	.58	.52	.42	.37	ECS-92.1-S-4
	9.216000	20pF	X168-ND	.58	.52	.42	.37	ECS-92.1-20-4
	9.545000	Series	X420-ND	.58	.52	.42	.37	ECS-95.4-S-4
	9.830400	Series	X421-ND	.58	.52	.42	.37	ECS-98.3-S-4
	9.830400	20pF	X169-ND	.58	.52	.42	.37	ECS-98.3-20-4
	10.000000	Series	X422-ND	.58	.52	.42	.37	ECS-100-S-4
	10.000000	18pF	X443-ND	.58	.52	.42	.37	ECS-100-18-4
	10.738640	Series	X423-ND	.58	.52	.42	.37	ECS-107.3-S-4
	11.000000	Series	X424-ND	.58	.52	.42	.37	ECS-110-S-4
	11.059200	Series	X425-ND	.58	.52	.42	.37	ECS-110.5-S-4
	11.059200	20pF	X426-ND	.58	.52	.42	.37	ECS-110.5-20-4
	11.059200	32pF	X170-ND	.58	.52	.42	.37	ECS-110.5-32-4
	11.520000	Series	X171-ND	.58	.52	.42	.37	ECS-115.2-S-4
	11.981350	Series	X427-ND	.58	.52	.42	.37	ECS-119.8-S-4
	12.000000	Series	X428-ND	.58	.52	.42	.37	ECS-120-S-4
	12.000000	20pF	X227-ND	.58	.52	.42	.37	ECS-120-20-4
	12.000000	32pF	X172-ND	.58	.52	.42	.37	ECS-120-32-4
	12.000390	18pF	X173-ND	.58	.52	.42	.37	ECS-120.003-18-4
	12.096000	Series	X429-ND	.58	.52	.42	.37	ECS-121-S-4
	12.288000	Series	X174-ND	.58	.52	.42	.37	ECS-122.8-S-4
	12.288000	20pF	X228-ND	.58	.52	.42	.37	ECS-122.8-20-4
	12.960000	18pF	X097-ND	.75	.63	.50	.39	ECS-129.6-18-4
	14.318180	Series	X430-ND	.58	.52	.42	.37	ECS-143-S-4
	14.318180	20pF	X444-ND	.58	.52	.42	.37	ECS-143-20-4
	14.745600	Series	X431-ND	.58	.52	.42	.37	ECS-147.4-S-4
	14.745600	20pF	X175-ND	.58	.52	.42	.37	ECS-147.4-20-4
	15.000000	Series	X432-ND	.58	.52	.42	.37	ECS-150-S-4
	15.360000	20pF	X096-ND	.75	.63	.50	.39	ECS-153-20-4
	16.000000	Series	X433-ND	.58	.52	.42	.37	ECS-160-S-4

‡ 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C   † 3rd Overtone

(Continued)

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
2	16.000000	20pF	X176-ND	.58	.52	.42	.37	ECS-160-20-4
	16.000310	18pF	X177-ND	.58	.52	.42	.37	ECS-160.003-18-4
	16.257000	Series	X434-ND	.58	.52	.42	.37	ECS-162.5-S-4
	16.257000	20pF	X039-ND	.75	.63	.50	.39	ECS-162.5-20-4
	18.000000	Series	X435-ND	.58	.52	.42	.37	ECS-180-S-4
	18.000000	20pF	X178-ND	.58	.52	.42	.37	ECS-180-20-4
	18.432000	Series	X436-ND	.58	.52	.42	.37	ECS-184-S-4
	18.432000	18pF	X179-ND	.58	.52	.42	.37	ECS-184-18-4
	18.432000	20pF	X180-ND	.58	.52	.42	.37	ECS-184-20-4
	19.660800	Series	X437-ND	.58	.52	.42	.37	ECS-196.6-S-4
	19.660800	20pF	X181-ND	.58	.52	.42	.37	ECS-196.6-20-4
	20.000000	Series	X438-ND	.58	.52	.42	.37	ECS-200-S-4
	20.000000	20pF	X439-ND	.58	.52	.42	.37	ECS-200-20-4
	20.480000	20pF	X229-ND	.58	.52	.42	.37	ECS-204.8-20-4
	21.477270	Series	X044-ND	.75	.63	.50	.39	ECS-214.7-S-4
	22.118400	Series	X182-ND	.58	.52	.42	.37	ECS-221-S-4
	24.000000	Series	X440-ND	.58	.52	.42	.37	ECS-240-S-4
	24.000000	16pF	X441-ND	.58	.52	.42	.37	ECS-240-16-4
	24.000000	20pF	X442-ND	.58	.52	.42	.37	ECS-240-20-4
	24.000140	18pF	X183-ND	.58	.52	.42	.37	ECS-240.001-18-4
	24.576000	20pF	X230-ND	.58	.52	.42	.37	ECS-245.7-20-4
	25.000000	18pF	X231-ND	.58	.52	.42	.37	ECS-250-18-4-F
	48.000000	20pF	XC942-ND	.58	.52	.42	.37	ECS-480-20-4
			HC-49USX — RoHS Compliant					
2	3.579550	Series	X1086-ND	.58	.52	.42	.37	ECS-35-S-4X
	3.579550	17pF	X1085-ND	.58	.52	.42	.37	ECS-35-17-4X
	3.686400	Series	X1043-ND	.58	.52	.42	.37	ECS-36-S-4X
	3.686400	18pF	X1042-ND	.58	.52	.42	.37	ECS-36-18-4X
	4.000000	Series	X1044-ND	.58	.52	.42	.37	ECS-40-S-4X
	4.000000	20pF	X1045-ND	.58	.52	.42	.37	ECS-40-20-4X
	4.032000	20pF	X1087-ND	.58	.52	.42	.37	ECS-40.3-20-4X
	4.096000	20pF	X1089-ND	.58	.52	.42	.37	ECS-41-20-4X
	4.194304	12pF	X1046-ND	.58	.52	.42	.37	ECS-42-12-4X
	4.194304	16pF	X1090-ND	.58	.52	.42	.37	ECS-42-16-4X
	4.433618	20pF	X1047-ND	.58	.52	.42	.37	ECS-44-20-4X
	4.915200	Series	X1048-ND	.58	.52	.42	.37	ECS-49-S-4X
	4.915200	20pF	X1049-ND	.58	.52	.42	.37	ECS-49-20-4X
	5.000000	Series	X1091-ND	.58	.52	.42	.37	ECS-50-S-4X
	5.000000	20pF	X1050-ND	.58	.52	.42	.37	ECS-50-20-4X
	5.068000	20pF	X1051-ND	.58	.52	.42	.37	ECS-51-20-4X
	6.000000	Series	X1052-ND	.58	.52	.42	.37	ECS-60-S-4X
	6.000000	32pF	X1053-ND	.58	.52	.42	.37	ECS-60-32-4X
	6.144000	32pF	X1054-ND	.58	.52	.42	.37	ECS-61-32-4X
	6.500000	20pF	X1055-ND	.58	.52	.42	.37	ECS-65-20-4X
	7.372800	Series	X1056-ND	.58	.52	.42	.37	ECS-73-S-4X
	7.372800	20pF	X1084-ND	.75	.63	.50	.39	ECS-73-20-4X
	7.680000	20pF	X1092-ND	.58	.52	.42	.37	ECS-76.8-20-4X
	8.000000	Series	X1057-ND	.58	.52	.42	.37	ECS-80-S-4X
	8.000000	18pF	X1093-ND	.58	.52	.42	.37	ECS-80-18-4X
	8.000000	20pF	X1094-ND	.58	.52	.42	.37	ECS-80-20-4X
	8.000000	32pF	X1095-ND	.58	.52	.42	.37	ECS-80-32-4X
	8.500000	Series	X1058-ND	.58	.52	.42	.37	ECS-85-S-4X
	9.000000	Series	X1059-ND	.58	.52	.42	.37	ECS-90-S-4X
	9.216000	20pF	X1096-ND	.58	.52	.42	.37	ECS-92.1-20-4X
	9.830400	Series	X1060-ND	.58	.52	.42	.37	ECS-98.3-S-4X
	9.830400	20pF	X1097-ND	.58	.52	.42	.37	ECS-98.3-20-4X
	10.000000	Series	X1061-ND	.58	.52	.42	.37	ECS-100-S-4X
	10.000000	18pF	X1080-ND	.58	.52	.42	.37	ECS-100-18-4X
	10.738640	Series	X1062-ND	.58	.52	.42	.37	ECS-107.3-S-4X
	11.000000	Series	X1063-ND	.58	.52	.42	.37	ECS-110-S-4X
	11.059200	Series	X1064-ND	.58	.52	.42	.37	ECS-110.5-S-4X
	11.059200	20pF	X1065-ND	.58	.52	.42	.37	ECS-110.5-20-4X
	11.059200	32pF	X1098-ND	.58	.52	.42	.37	ECS-110.5-32-4X
	11.520000	Series	X1099-ND	.58	.52	.42	.37	ECS-115.2-S-4X
	11.981350	Series	X1066-ND	.58	.52	.42	.37	ECS-119.8-S-4X
	12.000000	Series	X1067-ND	.58	.52	.42	.37	ECS-120-S-4X
	12.000000	20pF	X1037-ND	.58	.52	.42	.37	ECS-120-20-4X
	12.000000	32pF	X1100-ND	.58	.52	.42	.37	ECS-120-32-4X
	12.288000	Series	X1101-ND	.58	.52	.42	.37	ECS-122.8-S-4X
	12.288000	20pF	X1038-ND	.58	.52	.42	.37	ECS-122.8-20-4X
	12.960000	18pF	X1083-ND	.75	.63	.50	.39	ECS-129.6-18-4X
	14.318180	Series	X1068-ND	.58	.52	.42	.37	ECS-143-S-4X
	14.318180	20pF	X1081-ND	.58	.52	.42	.37	ECS-143-20-4X
	14.745600	Series	X1069-ND	.58	.52	.42	.37	ECS-147.4-S-4X
	14.745600	20pF	X1102-ND	.58	.52	.42	.37	ECS-147.4-20-4X
	15.000000	Series	X1070-ND	.58	.52	.42	.37	ECS-150-S-4X
	15.360000	20pF	X1082-ND	.75	.63	.50	.39	ECS-153-20-4X
	16.000000	Series	X1071-ND	.58	.52	.42	.37	ECS-160-S-4X
	16.000000	20pF	X1103-ND	.58	.52	.42	.37	ECS-160-20-4X
	16.000310	18pF	X1104-ND	.58	.52	.42	.37	ECS-160.003-18-4X
	18.000000	Series	X1072-ND	.58	.52	.42	.37	ECS-180-S-4X
	18.000000	20pF	X1105-ND	.58	.52	.42	.37	ECS-180-20-4X
	18.432000	Series	X1073-ND	.58	.52	.42	.37	ECS-184-S-4X
	18.432000	18pF	X1106-ND	.58	.52	.42	.37	ECS-184-18-4X
	18.432000	20pF	X1107-ND	.58	.52	.42	.37	ECS-184-20-4X
	19.660800	Series	X1074-ND	.58	.52	.42	.37	ECS-196.6-S-4X
	19.660800	20pF	X1108-ND	.58	.52	.42	.37	ECS-196.6-20-4X
	20.000000	Series	X1075-ND	.58	.52	.42	.37	ECS-200-S-4X
	20.000000	20pF	X1076-ND	.58	.52	.42	.37	ECS-200-20-4X

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
2	20.480000	20pF	X1039-ND	.58	.52	.42	.37	ECS-204.8-20-4X
	22.118400	Series	X1109-ND	.58	.52	.42	.37	ECS-221-S-4X
	24.000000	Series	X1077-ND	.58	.52	.42	.37	ECS-240-S-4X
	24.000000	12pF	XC1005-ND	.58	.52	.42	.37	ECS-240-12-4X
	24.000000	16pF	X1078-ND	.58	.52	.42	.37	ECS-240-16-4X
	24.000000	20pF	X1079-ND	.58	.52	.42	.37	ECS-240-20-4X
	24.576000	20pF	X1040-ND	.58	.52	.42	.37	ECS-245.7-20-4X
	25.000000	18pF	X1041-ND	.58	.52	.42	.37	ECS-250-18-4X-F
	27.000000	18pF	XC1006-ND	.58	.52	.42	.37	ECS-270-18-4X-F
			NEW! HC-49USX-EN — RoHS Compliant NEW!					
2	3.579545	18pF	XC1707-ND	.55	.50	.40	.36	ECS-35-18-4XEN
	4.000	18pF	XC1708-ND	.55	.50	.40	.36	ECS-40-18-4XEN
	4.194304	18pF	XC1709-ND	.55	.50	.40	.36	ECS-42-18-4XEN
	4.9152	18pF	XC1710-ND	.55	.50	.40	.36	ECS-49-18-4XEN
	5.000	18pF	XC1711-ND	.55	.50	.40	.36	ECS-50-18-4XEN
	6.000	18pF	XC1712-ND	.55	.50	.40	.36	ECS-60-18-4XEN
	7.3728	18pF	XC1713-ND	.55	.50	.40	.36	ECS-73-18-4XEN
	9.216	18pF	XC1714-ND	.55	.50	.40	.36	ECS-92.1-18-4XEN
	9.8304	18pF	XC1715-ND	.55	.50	.40	.36	ECS-98.3-18-4XEN
	11.0592	18pF	XC1716-ND	.55	.50	.40	.36	ECS-110.5-18-4XEN
	12.000	18pF	XC1717-ND	.55	.50	.40	.36	ECS-120-18-4XEN
	12.288	18pF	XC1718-ND	.55	.50	.40	.36	ECS-122.8-18-4XEN
	13.5168	18pF	XC1731-ND	.55	.50	.40	.36	ECS-135-18-4XEN
	13.5168	18pF	XC1720-ND	.55	.50	.40	.36	ECS-147.4-18-4XEN
	14.31818	18pF	XC1719-ND	.55	.50	.40	.36	ECS-143-18-4XEN
	16.000	18pF	XC1721-ND	.55	.50	.40	.36	ECS-160-18-4XEN
	16.384	18pF	XC1722-ND	.55	.50	.40	.36	ECS-163.8-18-4XEN
	20.000	18pF	XC1723-ND	.55	.50	.40	.36	ECS-200-18-4XEN
	22.1184	18pF	XC1724-ND	.55	.50	.40	.36	ECS-221-18-4XEN
	24.000	18pF	XC1725-ND	.55	.50	.40	.36	ECS-240-18-4XEN
	24.576	18pF	XC1726-ND	.55	.50	.40	.36	ECS-245.7-18-4XEN
	28.224	18pF	XC1727-ND	.55	.50	.40	.36	ECS-282.24-18-4X-F-EN
	28.63636	18pF	XC1728-ND	.55	.50	.40	.36	ECS-286.3-18-4X-F-EN
	40.000	18pF	XC1729-ND	.55	.50	.40	.36	ECS-400-18-4XEN
	50.000	18pF	XC1730-ND	.55	.50	.40	.36	ECS-500-18-4XEN
			HC-49US-DN, Industrial Temperature Range: -40°C ~ 85°C					
2	3.579550	17pF	X184-ND	.80	.72	.58	.52	ECS-35-17-4DN
	3.686400	20pF	X185-ND	.80	.72	.58	.52	ECS-36-20-4DN
	4.000000	20pF	X186-ND	.80	.72	.58	.52	ECS-40-20-4DN
	6.000000	32pF	X187-ND	.80	.72	.58	.52	ECS-60-32-4DN
	7.372800	20pF	X188-ND	.80	.72	.58	.52	ECS-73-20-4DN
	8.000000	18pF	X189-ND	.80	.72	.58	.52	ECS-80-18-4DN
	12.000000	20pF	X190-ND	.80	.72	.58	.52	ECS-120-20-4DN
	14.318180	20pF	X191-ND	.80	.72	.58	.52	ECS-143-20-4DN
	16.000000	20pF	X192-ND	.80	.72	.58	.52	ECS-160-20-4DN
	18.432000	20pF	X193-ND	.80	.72	.58	.52	ECS-184-20-4DN
	19.660800	20pF	X194-ND	.80	.72	.58	.52	ECS-196.6-20-4DN
	20.000000	20pF	X195-ND	.80	.72	.58	.52	ECS-200-20-4DN
	24.000000	20pF	X196-ND	.80	.72	.58	.52	ECS-240-20-4DN
			HC-49USX-DN, Industrial Temperature Range: -40°C ~ 85°C — RoHS Compliant					
2	3.579550	17pF	X1110-ND	.80	.72	.58	.52	ECS-35-17-4XDN
	3.686400	20pF	X1111-ND	.80	.72	.58	.52	ECS-36-20-4XDN
	4.000000	20pF	X1112-ND	.80	.72	.58	.52	ECS-40-20-4XDN
	6.000000	32pF	X1113-ND	.80	.72	.58	.52	ECS-60-32-4XDN
	7.372800	20pF	X1114-ND	.80	.72	.58	.52	ECS-73-20-4XDN
	8.000000	18pF	X1115-ND	.80	.72	.58	.52	ECS-80-18-4XDN
	12.000000	20pF	X1116-ND	.80	.72	.58	.52	ECS-120-20-4XDN
	14.318180	20pF	X1117-ND	.80	.72	.58	.52	ECS-143-20-4XDN
	16.000000	20pF	X1118-ND	.80	.72	.58	.52	ECS-160-20-4XDN
	18.432000	20pF	X1119-ND	.80	.72	.58	.52	ECS-184-20-4XDN
	19.660800	20pF	X1120-ND	.80	.72	.58	.52	ECS-196.6-20-4XDN
	20.000000	20pF	X1121-ND	.80	.72	.58	.52	ECS-200-20-4XDN
	24.000000	20pF	X1122-ND	.80	.72	.58	.52	ECS-240-20-4XDN
			HC-6/U					
3	2.949120	32pF	X014-ND	1.37	1.14	.91	.70	ECS-29.4-32-2P
	3.640000	32pF	X008-ND	1.24	1.03	.82	.64	ECS-36.4-32-2P
			HC-49USSX Series Low Profile — RoHS Compliant					
4	3.579545	18pF	XC1568-ND	.73	.66	.53	.47	ECS-35-18-4VX
	3.686400	20pF	XC1569-ND	.73	.66	.53	.47	ECS-36-20-4VX
	4.000000	20pF	XC1570-ND	.73	.66	.53	.47	ECS-40-20-4VX
	6.000000	20pF	XC1571-ND	.73	.66	.53	.47	ECS-60-20-4VX
	8.000000	20pF	XC1572-ND	.73	.66	.53	.47	ECS-80-20-4VX
	9.830400	20pF	XC1573-ND	.73	.66	.53	.47	ECS-98.3-20-4VX
	10.000000	20pF	XC1574-ND	.73	.66	.53	.47	ECS-100-20-4VX
	11.059200	20pF	XC1575-ND	.73	.66	.53	.47	ECS-110.5-20-4VX
	12.000000	18pF	XC1576-ND	.73	.66	.53	.47	ECS-120-18-4VX
	12.000000	32pF	XC1577-ND	.73	.66	.53	.47	ECS-120-32-4VX
	12.288000	20pF	XC1578-ND	.73	.66	.53	.47	ECS-122.8-20-4VX
	14.318180	20pF	XC1579-ND	.73	.66	.53	.47	ECS-143-20-4VX
	14.745600	20pF	XC1580-ND	.73	.66	.53	.47	ECS-147.4-20-4VX
	16.000000	20pF	XC1581-ND	.73	.66	.53	.47	ECS-160-20-4VX
	18.432000	20pF	XC1582-ND	.73	.66	.53	.47	ECS-184-20-4VX
	20.000000	20pF	XC1583-ND	.73	.66	.53	.47	ECS-200-20-4VX
	24.000000	20pF	XC1584-ND	.73	.66	.53	.47	ECS-240-20-4VX
	24.576000	20pF	XC1585-ND	.73	.66	.53	.47	ECS-245.7-20-4VX
	25.000000	20pF	XC1586-ND	.73	.66	.53	.47	ECS-250-20-4VX
	27.000000	20pF	XC1587-ND	.73	.66	.53	.47	ECS-270-20-4VX

‡ 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C   † 3rd Overtone

ABLS, ABLS2 and ABLSG Series
HC49US SMD Crystals

Fig. 1

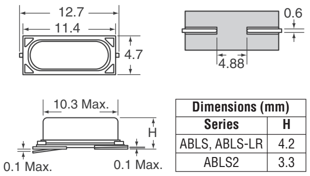

Dimensions (mm)	
Series	**H**
ABLS, ABLS-LR	4.2
ABLS2	3.3

Fig. 2 — Third Lead is Case-Ground, Ideal for EMI Sensitive Applications *NEW!*

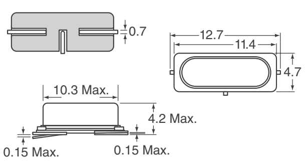

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABLS-xxxMHZ-20-R50	±50ppm	±50ppm	0°C ~ 70°C	20.0pF
ABLS-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18.0pF
ABLS-xxxMHZ-10-R20-D	±50ppm	±50ppm	-40°C ~ 85°C	10.0pF
ABLS-xxxMHZ-20-Rx0-D	±50ppm	±50ppm	-40°C ~ 85°C	20.0pF
ABLS-xxxMHZ-D-R60-1-W-T	±25ppm	±10ppm	-40°C ~ 85°C	18.0pF
ABLS-xxxMHZ-10-J4Y	±30ppm	±30ppm	-40°C ~ 105°C	10.0pF
ABLS-xxxMHZ-K4-T	±50ppm	±30ppm	-40°C ~ 125°C	18.0pF
ABLS-xxxMHZ-L4Q-T	±100ppm	±30ppm	-55°C ~ 125°C	18.0pF
ABLS2-xxxMHZ-D4Y-T	±30ppm	±30ppm	-40°C ~ 85°C	18.0pF
ABLS-LR-xxxMHZ-T (3.00 ~ 3.579545MHz)	±100ppm	±50ppm	0°C ~ 70°C	18.0pF
ABLS-LR-xxxMHZ-T	±50ppm	±50ppm	0°C ~ 70°C	18.0pF
ABLS-xxxMHZ-B4-T	±50ppm	±30ppm	-20°C ~ 70°C	18.0pF
ABLSG-xxxMHZ-D-2-Y-T	±30ppm	±20ppm	-40°C ~ 85°C	18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
NEW! Fig. 1 — ABLS-LR-xxxMHZ-T (Ultra Low ESR) NEW!							
3.000	535-10158-1-ND	4.95	4.29	3.77	535-10158-2-ND	1848.00	ABLS-LR-3.000MHZ-T
3.072	535-10159-1-ND	4.95	4.29	3.77	535-10159-2-ND	1848.00	ABLS-LR-3.072MHZ-T
3.2768	535-10160-1-ND	4.95	4.29	3.77	535-10160-2-ND	1848.00	ABLS-LR-3.2768MHZ-T
3.579545	535-10161-1-ND	2.44	2.12	1.86	535-10161-2-ND	910.00	ABLS-LR-3.579545MHZ-T
3.6864	535-10162-1-ND	2.44	2.12	1.86	535-10162-2-ND	910.00	ABLS-LR-3.6864MHZ-T
4.000	535-10163-1-ND	2.44	2.12	1.86	535-10163-2-ND	910.00	ABLS-LR-4.000MHZ-T
4.194304	535-10164-1-ND	2.44	2.12	1.86	535-10164-2-ND	910.00	ABLS-LR-4.194304MHZ-T
4.433619	535-10165-1-ND	2.44	2.12	1.86	535-10165-2-ND	910.00	ABLS-LR-4.433619MHZ-T
4.500	535-10166-1-ND	2.44	2.12	1.86	535-10166-2-ND	910.00	ABLS-LR-4.500MHZ-T
4.9152	535-10167-1-ND	2.44	2.12	1.86	535-10167-2-ND	910.00	ABLS-LR-4.9152MHZ-T
5.000	535-10168-1-ND	2.44	2.12	1.86	535-10168-2-ND	910.00	ABLS-LR-5.000MHZ-T
6.000	535-10169-1-ND	2.44	2.12	1.86	535-10169-2-ND	910.00	ABLS-LR-6.000MHZ-T
6.144	535-10170-1-ND	2.44	2.12	1.86	535-10170-2-ND	910.00	ABLS-LR-6.144MHZ-T
6.7458	535-10171-1-ND	2.44	2.12	1.86	535-10171-2-ND	910.00	ABLS-LR-6.7458MHZ-T
7.3728	535-10172-1-ND	2.44	2.12	1.86	535-10172-2-ND	910.00	ABLS-LR-7.3728MHZ-T
8.000	535-10173-1-ND	2.44	2.12	1.86	535-10173-2-ND	910.00	ABLS-LR-8.000MHZ-T
9.216	535-10174-1-ND	2.44	2.12	1.86	535-10174-2-ND	910.00	ABLS-LR-9.216MHZ-T
9.8304	535-10175-1-ND	2.44	2.12	1.86	535-10175-2-ND	910.00	ABLS-LR-9.8304MHZ-T
10.000	535-10176-1-ND	2.44	2.12	1.86	535-10176-2-ND	910.00	ABLS-LR-10.000MHZ-T
10.240	535-10177-1-ND	2.44	2.12	1.86	535-10177-2-ND	910.00	ABLS-LR-10.240MHZ-T
11.0592	535-10178-1-ND	2.44	2.12	1.86	535-10178-2-ND	910.00	ABLS-LR-11.0592MHZ-T
12.000	535-10179-1-ND	2.44	2.12	1.86	535-10179-2-ND	910.00	ABLS-LR-12.000MHZ-T
12.288	535-10180-1-ND	2.44	2.12	1.86	535-10180-2-ND	910.00	ABLS-LR-12.288MHZ-T
13.000	535-10181-1-ND	2.44	2.12	1.86	535-10181-2-ND	910.00	ABLS-LR-13.000MHZ-T
13.500	535-10182-1-ND	2.44	2.12	1.86	535-10182-2-ND	910.00	ABLS-LR-13.500MHZ-T
14.31818	535-10183-1-ND	2.44	2.12	1.86	535-10183-2-ND	910.00	ABLS-LR-14.31818MHZ-T
14.7456	535-10184-1-ND	2.44	2.12	1.86	535-10184-2-ND	910.00	ABLS-LR-14.7456MHZ-T
15.000	535-10185-1-ND	2.44	2.12	1.86	535-10185-2-ND	910.00	ABLS-LR-15.000MHZ-T
15.360	535-10186-1-ND	2.44	2.12	1.86	535-10186-2-ND	910.00	ABLS-LR-15.360MHZ-T
16.000	535-10187-1-ND	2.44	2.12	1.86	535-10187-2-ND	910.00	ABLS-LR-16.000MHZ-T
16.384	535-10188-1-ND	2.44	2.12	1.86	535-10188-2-ND	910.00	ABLS-LR-16.384MHZ-T
16.9344	535-10189-1-ND	2.44	2.12	1.86	535-10189-2-ND	910.00	ABLS-LR-16.9344MHZ-T
18.000	535-10190-1-ND	2.44	2.12	1.86	535-10190-2-ND	910.00	ABLS-LR-18.000MHZ-T
18.432	535-10191-1-ND	2.44	2.12	1.86	535-10191-2-ND	910.00	ABLS-LR-18.432MHZ-T
19.6608	535-10192-1-ND	2.44	2.12	1.86	535-10192-2-ND	910.00	ABLS-LR-19.6608MHZ-T
20.000	535-10193-1-ND	2.44	2.12	1.86	535-10193-2-ND	910.00	ABLS-LR-20.000MHZ-T
24.000	535-10194-1-ND	2.44	2.12	1.86	535-10194-2-ND	910.00	ABLS-LR-24.000MHZ-T
24.576	535-10195-1-ND	2.44	2.12	1.86	535-10195-2-ND	910.00	ABLS-LR-24.576MHZ-F-T
25.000	535-10196-1-ND	2.44	2.12	1.86	535-10196-2-ND	910.00	ABLS-LR-25.000MHZ-F-T
27.000	535-10197-1-ND	2.44	2.12	1.86	535-10197-2-ND	910.00	ABLS-LR-27.000MHZ-F-T
28.63636	535-10198-1-ND	2.44	2.12	1.86	535-10198-2-ND	910.00	ABLS-LR-28.63636MHZ-T
30.000	535-10199-1-ND	2.44	2.12	1.86	535-10199-2-ND	910.00	ABLS-LR-30.000MHZ-T
Fig. 1 — ABLS-xxxMHZ-B2-T Series							
3.579545	535-9081-1-ND	.56	.49	.43	535-9081-2-ND	210.00	ABLS-3.579545MHZ-B2-T
3.686400	535-9082-1-ND	.56	.49	.43	535-9082-2-ND	210.00	ABLS-3.6864MHZ-B2-T
4.000000	535-9085-1-ND	.56	.49	.43	535-9085-2-ND	210.00	ABLS-4.000MHZ-B2-T
4.915200	535-9086-1-ND	.56	.49	.43	535-9086-2-ND	210.00	ABLS-4.9152MHZ-B2-T
5.000000	535-9087-1-ND	.56	.49	.43	535-9087-2-ND	210.00	ABLS-5.000MHZ-B2-T
7.372800	535-9088-1-ND	.56	.49	.43	535-9088-2-ND	210.00	ABLS-7.3728MHZ-B2-T
8.000000	535-9089-1-ND	.56	.49	.43	535-9089-2-ND	210.00	ABLS-8.000MHZ-B2-T
8.192000	535-9090-1-ND	.56	.49	.43	535-9090-2-ND	210.00	ABLS-8.192MHZ-B2-T
10.00000	535-9065-1-ND	.56	.49	.43	535-9065-2-ND	210.00	ABLS-10.000MHZ-B2-T
11.05920	535-9066-1-ND	.56	.49	.43	535-9066-2-ND	210.00	ABLS-11.0592MHZ-B2-T
12.00000	535-9067-1-ND	.56	.49	.43	535-9067-2-ND	210.00	ABLS-12.000MHZ-B2-T
12.28800	535-9068-1-ND	.56	.49	.43	535-9068-2-ND	210.00	ABLS-12.288MHZ-B2-T
14.31818	535-9069-1-ND	.56	.49	.43	535-9069-2-ND	210.00	ABLS-14.31818MHZ-B2-T
14.74560	535-9070-1-ND	.56	.49	.43	535-9070-2-ND	210.00	ABLS-14.7456MHZ-B2-T
16.00000	535-9071-1-ND	.56	.49	.43	535-9071-2-ND	210.00	ABLS-16.000MHZ-B2-T
18.43200	535-9072-1-ND	.56	.49	.43	535-9072-2-ND	210.00	ABLS-18.432MHZ-B2-T
19.66080	535-9073-1-ND	.56	.49	.43	535-9073-2-ND	210.00	ABLS-19.6608MHZ-B2-T
20.00000	535-9074-1-ND	.56	.49	.43	535-9074-2-ND	210.00	ABLS-20.000MHZ-B2-T
22.11840	535-9075-1-ND	.56	.49	.43	535-9075-2-ND	210.00	ABLS-22.1184MHZ-B2-T
24.00000	535-9076-1-ND	.56	.49	.43	535-9076-2-ND	210.00	ABLS-24.000MHZ-B2-T
24.57600	535-9077-1-ND	.56	.49	.43	535-9077-2-ND	210.00	ABLS-24.576MHZ-B2F-T
25.00000	535-9078-1-ND	.56	.49	.43	535-9078-2-ND	210.00	ABLS-25.000MHZ-B2F-T
27.00000	535-9079-1-ND	.56	.49	.43	535-9079-2-ND	210.00	ABLS-27.000MHZ-B2F-T
32.00000	535-9080-1-ND	.56	.49	.43	535-9080-2-ND	210.00	ABLS-32.000MHZ-B2-T
48.00000	535-9083-1-ND	.56	.49	.43	535-9083-2-ND	210.00	ABLS-48.000MHZ-B2-T
49.15200	535-9084-1-ND	.41	.36	.30	535-9084-2-ND	195.00	ABLS-49.152MHZ-B2-T
NEW! Fig. 1 — ABLS-xxxMHZ-B4-T NEW!							
3.579545	535-10200-1-ND	.41	.36	.32	535-10200-2-ND	154.00	ABLS-3.579545MHZ-B4-T
3.6864	535-10201-1-ND	.41	.36	.32	535-10201-2-ND	154.00	ABLS-3.6864MHZ-B4-T
4.000	535-10202-1-ND	.41	.36	.32	535-10202-2-ND	154.00	ABLS-4.000MHZ-B4-T
4.194304	535-10203-1-ND	.41	.36	.32	535-10203-2-ND	154.00	ABLS-4.194304MHZ-B4-T
4.433619	535-10204-1-ND	.41	.36	.32	535-10204-2-ND	154.00	ABLS-4.433619MHZ-B4-T
4.500	535-10205-1-ND	.41	.36	.32	535-10205-2-ND	154.00	ABLS-4.500MHZ-B4-T
4.9152	535-10206-1-ND	.41	.36	.32	535-10206-2-ND	154.00	ABLS-4.9152MHZ-B4-T
5.000	535-10207-1-ND	.41	.36	.32	535-10207-2-ND	154.00	ABLS-5.000MHZ-B4-T
6.000	535-10208-1-ND	.41	.36	.32	535-10208-2-ND	154.00	ABLS-6.000MHZ-B4-T
6.144	535-10209-1-ND	.41	.36	.32	535-10209-2-ND	154.00	ABLS-6.144MHZ-B4-T
6.7458	535-10210-1-ND	.41	.36	.32	535-10210-2-ND	154.00	ABLS-6.7458MHZ-B4-T
7.3728	535-10211-1-ND	.41	.36	.32	535-10211-2-ND	154.00	ABLS-7.3728MHZ-B4-T
8.000	535-10212-1-ND	.41	.36	.32	535-10212-2-ND	154.00	ABLS-8.000MHZ-B4-T
9.216	535-10213-1-ND	.41	.36	.32	535-10213-2-ND	154.00	ABLS-9.216MHZ-B4-T
9.8304	535-10214-1-ND	.41	.36	.32	535-10214-2-ND	154.00	ABLS-9.8304MHZ-B4-T
10.000	535-10215-1-ND	.41	.36	.32	535-10215-2-ND	154.00	ABLS-10.000MHZ-B4-T
10.240	535-10216-1-ND	.41	.36	.32	535-10216-2-ND	154.00	ABLS-10.240MHZ-B4-T
11.0592	535-10217-1-ND	.41	.36	.32	535-10217-2-ND	154.00	ABLS-11.0592MHZ-B4-T
12.000	535-10218-1-ND	.41	.36	.32	535-10218-2-ND	154.00	ABLS-12.000MHZ-B4-T
12.288	535-10219-1-ND	.41	.36	.32	535-10219-2-ND	154.00	ABLS-12.288MHZ-B4-T
13.000	535-10220-1-ND	.41	.36	.32	535-10220-2-ND	154.00	ABLS-13.000MHZ-B4-T
13.500	535-10221-1-ND	.41	.36	.32	535-10221-2-ND	154.00	ABLS-13.500MHZ-B4-T
14.31818	535-10222-1-ND	.41	.36	.32	535-10222-2-ND	154.00	ABLS-14.31818MHZ-B4-T
14.7456	535-10223-1-ND	.41	.36	.32	535-10223-2-ND	154.00	ABLS-14.7456MHZ-B4-T
15.000	535-10224-1-ND	.41	.36	.32	535-10224-2-ND	154.00	ABLS-15.000MHZ-B4-T
15.360	535-10225-1-ND	.41	.36	.32	535-10225-2-ND	154.00	ABLS-15.360MHZ-B4-T
16.000	535-10226-1-ND	.41	.36	.32	535-10226-2-ND	154.00	ABLS-16.000MHZ-B4-T
16.384	535-10227-1-ND	.41	.36	.32	535-10227-2-ND	154.00	ABLS-16.384MHZ-B4-T
16.9344	535-10228-1-ND	.41	.36	.32	535-10228-2-ND	154.00	ABLS-16.9344MHZ-B4-T
18.000	535-10229-1-ND	.41	.36	.32	535-10229-2-ND	154.00	ABLS-18.000MHZ-B4-T
18.432	535-10230-1-ND	.41	.36	.32	535-10230-2-ND	154.00	ABLS-18.432MHZ-B4-T
19.6608	535-10231-1-ND	.41	.36	.32	535-10231-2-ND	154.00	ABLS-19.6608MHZ-B4-T
20.000	535-10232-1-ND	.41	.36	.32	535-10232-2-ND	154.00	ABLS-20.000MHZ-B4-T
24.000	535-10233-1-ND	.41	.36	.32	535-10233-2-ND	154.00	ABLS-24.000MHZ-B4-T
24.576	535-10234-1-ND	.41	.36	.32	535-10234-2-ND	154.00	ABLS-24.576MHZ-B4-F-T
25.000	535-10235-1-ND	.41	.36	.32	535-10235-2-ND	154.00	ABLS-25.000MHZ-B4-F-T
27.000	535-10236-1-ND	.41	.36	.32	535-10236-2-ND	154.00	ABLS-27.000MHZ-B4-F-T
28.63636	535-10237-1-ND	.41	.36	.32	535-10237-2-ND	154.00	ABLS-28.63636MHZ-B4-F-T
30.000	535-10238-1-ND	.41	.36	.32	535-10238-2-ND	154.00	ABLS-30.000MHZ-B4-F-T
32.000	535-10239-1-ND	.41	.36	.32	535-10239-2-ND	154.00	ABLS-32.000MHZ-B4-F-T
Fig. 1 — ABLS-xxxMHZ-K4-T Series							
3.579545	535-9928-1-ND	1.01	.88	.77	535-9928-2-ND	378.00	ABLS-3.579545MHZ-K4T
3.686400	535-9929-1-ND	1.01	.88	.77	535-9929-2-ND	378.00	ABLS-3.6864MHZ-K4T
4.000000	535-9930-1-ND	1.01	.88	.77	535-9930-2-ND	378.00	ABLS-4.000MHZ-K4T
4.096000	535-9931-1-ND	1.01	.88	.77	535-9931-2-ND	378.00	ABLS-4.096MHZ-K4T
4.915200	535-9932-1-ND	1.01	.88	.77	535-9932-2-ND	378.00	ABLS-4.9152MHZ-K4T
5.000000	535-9933-1-ND	1.01	.88	.77	535-9933-2-ND	378.00	ABLS-5.000MHZ-K4T
6.000000	535-9934-1-ND	1.01	.88	.77	535-9934-2-ND	378.00	ABLS-6.000MHZ-K4T
6.144000	535-9935-1-ND	1.01	.88	.77	535-9935-2-ND	378.00	ABLS-6.144MHZ-K4T
7.372800	535-9936-1-ND	1.01	.88	.77	535-9936-2-ND	378.00	ABLS-7.3728MHZ-K4T
8.000000	535-9937-1-ND	1.01	.88	.77	535-9937-2-ND	378.00	ABLS-8.000MHZ-K4T
8.192000	535-9938-1-ND	1.01	.88	.77	535-9938-2-ND	378.00	ABLS-8.192MHZ-K4T
9.830400	535-9939-1-ND	1.01	.88	.77	535-9939-2-ND	378.00	ABLS-9.8304MHZ-K4T
10.00000	535-9940-1-ND	1.01	.88	.77	535-9940-2-ND	378.00	ABLS-10.000MHZ-K4T
11.05920	535-9941-1-ND	1.01	.88	.77	535-9941-2-ND	378.00	ABLS-11.0592MHZ-K4T
12.00000	535-9942-1-ND	1.01	.88	.77	535-9942-2-ND	378.00	ABLS-12.000MHZ-K4T
12.28800	535-9943-1-ND	1.01	.88	.77	535-9943-2-ND	378.00	ABLS-12.288MHZ-K4T
13.00000	535-9944-1-ND	1.01	.88	.77	535-9944-2-ND	378.00	ABLS-13.000MHZ-K4T
14.31818	535-9945-1-ND	1.01	.88	.77	535-9945-2-ND	378.00	ABLS-14.31818MHZ-K4T
14.74560	535-9946-1-ND	1.01	.88	.77	535-9946-2-ND	378.00	ABLS-14.7456MHZ-K4T
15.00000	535-9947-1-ND	1.01	.88	.77	535-9947-2-ND	378.00	ABLS-15.000MHZ-K4T
16.00000	535-9948-1-ND	1.01	.88	.77	535-9948-2-ND	378.00	ABLS-16.000MHZ-K4T
16.38400	535-9949-1-ND	1.01	.88	.77	535-9949-2-ND	378.00	ABLS-16.384MHZ-K4T
18.43200	535-9950-1-ND	1.01	.88	.77	535-9950-2-ND	378.00	ABLS-18.432MHZ-K4T
19.66080	535-9951-1-ND	1.01	.88	.77	535-9951-2-ND	378.00	ABLS-19.6608MHZ-K4T
20.00000	535-9952-1-ND	1.01	.88	.77	535-9952-2-ND	378.00	ABLS-20.000MHZ-K4T
22.11840	535-9953-1-ND	1.01	.88	.77	535-9953-2-ND	378.00	ABLS-22.1184MHZ-K4T
24.00000	535-9954-1-ND	1.01	.88	.77	535-9954-2-ND	378.00	ABLS-24.000MHZ-K4F-T
24.57600	535-9955-1-ND	1.01	.88	.77	535-9955-2-ND	378.00	ABLS-24.576MHZ-K4F-T
25.00000	535-9956-1-ND	1.01	.88	.77	535-9956-2-ND	378.00	ABLS-25.000MHZ-K4F-T
26.00000	535-9957-1-ND	1.01	.88	.77	535-9957-2-ND	378.00	ABLS-26.000MHZ-K4F-T
27.00000	535-9958-1-ND	1.01	.88	.77	535-9958-2-ND	378.00	ABLS-27.000MHZ-K4F-T
30.00000	535-9959-1-ND	1.09	.95	.83	535-9959-2-ND	406.00	ABLS-30.000MHZ-K4F-T
32.00000	535-9960-1-ND	1.09	.95	.83	535-9960-2-ND	406.00	ABLS-32.000MHZ-K4F-T
33.00000	535-9961-1-ND	1.09	.95	.83	535-9961-2-ND	406.00	ABLS-33.000MHZ-K4F-T
36.00000	535-9962-1-ND	1.09	.95	.83	535-9962-2-ND	406.00	ABLS-36.000MHZ-K4F-T
40.00000	535-9963-1-ND	1.09	.95	.83	535-9963-2-ND	406.00	ABLS-40.000MHZ-K4F-T
Fig. 1 — ABLS-xxxMHZ-L4Q-T Series							
3.579545	535-9892-1-ND	1.05	.91	.80	535-9892-2-ND	392.00	ABLS-3.579545MHZ-L4Q-T
3.686400	535-9893-1-ND	1.05	.91	.80	535-9893-2-ND	392.00	ABLS-3.6864MHZ-L4Q-T
4.000000	535-9894-1-ND	1.05	.91	.80	535-9894-2-ND	392.00	ABLS-4.000MHZ-L4Q-T
4.096000	535-9895-1-ND	1.05	.91	.80	535-9895-2-ND	392.00	ABLS-4.096MHZ-L4Q-T
4.915200	535-9896-1-ND	1.05	.91	.80	535-9896-2-ND	392.00	ABLS-4.9152MHZ-L4Q-T
5.000000	535-9897-1-ND	1.05	.91	.80	535-9897-2-ND	392.00	ABLS-5.000MHZ-L4Q-T
6.000000	535-9898-1-ND	1.05	.91	.80	535-9898-2-ND	392.00	ABLS-6.000MHZ-L4Q-T
6.144000	535-9899-1-ND	1.05	.91	.80	535-9899-2-ND	392.00	ABLS-6.144MHZ-L4Q-T
7.372800	535-9900-1-ND	1.05	.91	.80	535-9900-2-ND	392.00	ABLS-7.3728MHZ-L4Q-T
8.000000	535-9901-1-ND	1.05	.91	.80	535-9901-2-ND	392.00	ABLS-8.000MHZ-L4Q-T
8.192000	535-9902-1-ND	1.05	.91	.80	535-9902-2-ND	392.00	ABLS-8.192MHZ-L4Q-T
9.830400	535-9903-1-ND	1.05	.91	.80	535-9903-2-ND	392.00	ABLS-9.8304MHZ-L4Q-T
10.00000	535-9904-1-ND	1.05	.91	.80	535-9904-2-ND	392.00	ABLS-10.000MHZ-L4Q-T
11.05920	535-9905-1-ND	1.05	.91	.80	535-9905-2-ND	392.00	ABLS-11.0592MHZ-L4Q-T
12.00000	535-9906-1-ND	1.05	.91	.80	535-9906-2-ND	392.00	ABLS-12.000MHZ-L4Q-T
12.28800	535-9907-1-ND	1.05	.91	.80	535-9907-2-ND	392.00	ABLS-12.288MHZ-L4Q-T
13.00000	535-9908-1-ND	1.05	.91	.80	535-9908-2-ND	392.00	ABLS-13.000MHZ-L4Q-T
14.31818	535-9909-1-ND	1.05	.91	.80	535-9909-2-ND	392.00	ABLS-14.31818MHZ-L4Q-T
14.74560	535-9910-1-ND	1.05	.91	.80	535-9910-2-ND	392.00	ABLS-14.7456MHZ-L4Q-T
15.00000	535-9911-1-ND	1.05	.91	.80	535-9911-2-ND	392.00	ABLS-15.000MHZ-L4Q-T
16.00000	535-9912-1-ND	1.05	.91	.80	535-9912-2-ND	392.00	ABLS-16.000MHZ-L4Q-T
16.38400	535-9913-1-ND	1.05	.91	.80	535-9913-2-ND	392.00	ABLS-16.384MHZ-L4Q-T
18.43200	535-9914-1-ND	1.05	.91	.80	535-9914-2-ND	392.00	ABLS-18.432MHZ-L4Q-T
19.66080	535-9915-1-ND	1.05	.91	.80	535-9915-2-ND	392.00	ABLS-19.6608MHZ-L4Q-T
20.00000	535-9916-1-ND	1.05	.91	.80	535-9916-2-ND	392.00	ABLS-20.000MHZ-L4Q-T
22.11840	535-9917-1-ND	1.05	.91	.80	535-9917-2-ND	392.00	ABLS-22.1184MHZ-L4Q-T
24.00000	535-9918-1-ND	1.05	.91	.80	535-9918-2-ND	392.00	ABLS-24.000MHZ-L4QF-T

(Continued)

ABLS, ABLS2 and ABLSG Series HC49US SMD Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
24.57600	535-9919-1-ND	1.05	.91	.80	535-9919-2-ND	392.00	ABLS-24.576MHZ-L4QF-T
25.00000	535-9920-1-ND	1.05	.91	.80	535-9920-2-ND	392.00	ABLS-25.000MHZ-L4QF-T
26.00000	535-9921-1-ND	1.05	.91	.80	535-9921-2-ND	392.00	ABLS-26.000MHZ-L4QF-T
27.00000	535-9922-1-ND	1.05	.91	.80	535-9922-2-ND	392.00	ABLS-27.000MHZ-L4QF-T
30.00000	535-9923-1-ND	1.13	.98	.86	535-9923-2-ND	420.00	ABLS-30.000MHZ-L4QF-T
32.00000	535-9924-1-ND	1.13	.98	.86	535-9924-2-ND	420.00	ABLS-32.000MHZ-L4QF-T
33.00000	535-9925-1-ND	1.13	.98	.86	535-9925-2-ND	420.00	ABLS-33.000MHZ-L4QF-T
36.00000	535-9926-1-ND	1.13	.98	.86	535-9926-2-ND	420.00	ABLS-36.000MHZ-L4QF-T
40.00000	535-9927-1-ND	1.13	.98	.86	535-9927-2-ND	420.00	ABLS-40.000MHZ-L4QF-T
Fig. 1 — ABLS-xxxMHZ-10-R20-D Series — Crystals for RF Transceivers							
9.794100	535-9694-1-ND	.83	.72	.63	535-9694-2-ND	364.00	ABLS-9.7941MHZ-10-R20-D
9.843750	535-9689-1-ND	.83	.72	.63	535-9689-2-ND	364.00	ABLS-9.84375MHZ-10-R20-D
12.18750	535-9696-1-ND	.83	.72	.63	535-9696-2-ND	364.00	ABLS-12.1875MHZ-10-R20-D
13.06250	535-9697-1-ND	.83	.72	.63	535-9697-2-ND	364.00	ABLS-13.0625MHZ-10-R20-D
13.49160	535-9805-1-ND	.83	.72	.63	535-9805-2-ND	308.00	ABLS-13.4916MHZ-10-R20-D
13.56000	535-9687-1-ND	.83	.72	.63	535-9687-2-ND	364.00	ABLS-13.560MHZ-10-R20-D
Fig. 1 — ABLS-xxxMHZ-20-Rx0-D Series — Crystals for RF Transceivers							
4.897000	535-9688-1-ND	.83	.72	.63	535-9688-2-ND	364.00	ABLS-4.897MHZ-20-R70-D
6.745800	535-9686-1-ND	.83	.72	.63	535-9686-2-ND	364.00	ABLS-6.7458MHZ-20-R60-D
13.60500	535-9690-1-ND	.61	.52	.44	535-9690-2-ND	364.00	ABLS-13.6050MHZ-20-R50-D
Fig. 1 — ABLS-xxxMHZ-20-R50 Series — Crystals for RF Transceivers							
14.33590	535-9691-1-ND	.61	.52	.44	535-9691-2-ND	364.00	ABLS-14.3359MHZ-20-R50
14.35940	535-9692-1-ND	.61	.52	.44	535-9692-2-ND	364.00	ABLS-14.3594MHZ-20-R50
Fig. 1 — ABLS-xxxMHZ-D-R60-1-W-T Series — Zigbee Specification Crystal							
24.00000	535-9701-1-ND	.94	.82	.72	535-9701-2-ND	350.00	ABLS-24.000MHZ-D-R60-1-W-T
Fig. 1 — ABLS2-xxxMHZ-D4Y-T Series — Low Profile HC49US Crystals							
3.579545	535-9855-1-ND	.64	.56	.49	535-9855-2-ND	238.00	ABLS2-3.579545MHZ-D4Y-T
3.686400	535-9856-1-ND	.64	.56	.49	535-9856-2-ND	238.00	ABLS2-3.6864MHZ-D4Y-T
4.000000	535-9857-1-ND	.64	.56	.49	535-9857-2-ND	238.00	ABLS2-4.000MHZ-D4Y-T
4.096000	535-9858-1-ND	.64	.56	.49	535-9858-2-ND	238.00	ABLS2-4.096MHZ-D4Y-T
4.915200	535-9859-1-ND	.64	.56	.49	535-9859-2-ND	238.00	ABLS2-4.9152MHZ-D4Y-T
5.000000	535-9860-1-ND	.64	.56	.49	535-9860-2-ND	238.00	ABLS2-5.000MHZ-D4Y-T
6.000000	535-9861-1-ND	.64	.56	.49	535-9861-2-ND	238.00	ABLS2-6.000MHZ-D4Y-T
6.144000	535-9862-1-ND	.64	.56	.49	535-9862-2-ND	238.00	ABLS2-6.144MHZ-D4Y-T
7.372800	535-9863-1-ND	.64	.56	.49	535-9863-2-ND	238.00	ABLS2-7.3728MHZ-D4Y-T
8.000000	535-9864-1-ND	.64	.56	.49	535-9864-2-ND	238.00	ABLS2-8.000MHZ-D4Y-T
8.192000	535-9865-1-ND	.64	.56	.49	535-9865-2-ND	238.00	ABLS2-8.192MHZ-D4Y-T
9.830400	535-9866-1-ND	.64	.56	.49	535-9866-2-ND	238.00	ABLS2-9.8304MHZ-D4Y-T
10.00000	535-9867-1-ND	.64	.56	.49	535-9867-2-ND	238.00	ABLS2-10.000MHZ-D4Y-T
11.05920	535-9868-1-ND	.64	.56	.49	535-9868-2-ND	238.00	ABLS2-11.0592MHZ-D4Y-T
12.00000	535-9869-1-ND	.64	.56	.49	535-9869-2-ND	238.00	ABLS2-12.000MHZ-D4Y-T
12.28800	535-9870-1-ND	.64	.56	.49	535-9870-2-ND	238.00	ABLS2-12.288MHZ-D4Y-T
13.00000	535-9871-1-ND	.64	.56	.49	535-9871-2-ND	238.00	ABLS2-13.000MHZ-D4Y-T
14.31818	535-9872-1-ND	.64	.56	.49	535-9872-2-ND	238.00	ABLS2-14.31818MHZ-D4Y-T
14.74560	535-9873-1-ND	.64	.56	.49	535-9873-2-ND	238.00	ABLS2-14.7456MHZ-D4Y-T
15.00000	535-9874-1-ND	.64	.56	.49	535-9874-2-ND	238.00	ABLS2-15.000MHZ-D4Y-T
16.00000	535-9875-1-ND	.64	.56	.49	535-9875-2-ND	238.00	ABLS2-16.000MHZ-D4Y-T
16.38400	535-9876-1-ND	.64	.56	.49	535-9876-2-ND	238.00	ABLS2-16.384MHZ-D4Y-T
18.43200	535-9877-1-ND	.64	.56	.49	535-9877-2-ND	238.00	ABLS2-18.432MHZ-D4Y-T
19.66080	535-9878-1-ND	.64	.56	.49	535-9878-2-ND	238.00	ABLS2-19.6608MHZ-D4Y-T
20.00000	535-9879-1-ND	.64	.56	.49	535-9879-2-ND	238.00	ABLS2-20.000MHZ-D4Y-T
22.11840	535-9880-1-ND	.64	.56	.49	535-9880-2-ND	238.00	ABLS2-22.1184MHZ-D4Y-T
24.00000	535-9881-1-ND	.66	.57	.50	535-9881-2-ND	245.00	ABLS2-24.000MHZ-D4YF-T
24.57600	535-9882-1-ND	.66	.57	.50	535-9882-2-ND	245.00	ABLS2-24.576MHZ-D4YF-T
25.00000	535-9883-1-ND	.66	.57	.50	535-9883-2-ND	245.00	ABLS2-25.000MHZ-D4YF-T
26.00000	535-9884-1-ND	.66	.57	.50	535-9884-2-ND	245.00	ABLS2-26.000MHZ-D4YF-T
27.00000	535-9885-1-ND	.66	.57	.50	535-9885-2-ND	245.00	ABLS2-27.000MHZ-D4YF-T
29.49120	535-9886-1-ND	.66	.57	.50	535-9886-2-ND	245.00	ABLS2-29.4912MHZ-D4YF-T
30.00000	535-9887-1-ND	.66	.57	.50	535-9887-2-ND	245.00	ABLS2-30.000MHZ-D4YF-T
32.00000	535-9888-1-ND	.66	.57	.50	535-9888-2-ND	245.00	ABLS2-32.000MHZ-D4YF-T
33.00000	535-9889-1-ND	.66	.57	.50	535-9889-2-ND	245.00	ABLS2-33.000MHZ-D4YF-T
36.00000	535-9890-1-ND	.66	.57	.50	535-9890-2-ND	245.00	ABLS2-36.000MHZ-D4YF-T
40.00000	535-9891-1-ND	.66	.57	.50	535-9891-2-ND	245.00	ABLS2-40.000MHZ-D4YF-T
NEW! Fig. 2 — ABLSG-xxxMHZ-D-2-Y-T Third Lead Case-Ground NEW!							
3.579545	535-10591-1-ND	.79	.69	.60	535-10591-2-ND	294.00	ABLSG-3.579545MHZ-D-2-Y-T
3.6864	535-10592-1-ND	.79	.69	.60	535-10592-2-ND	294.00	ABLSG-3.6864MHZ-D-2-Y-T
4.000	535-10593-1-ND	.79	.69	.60	535-10593-2-ND	294.00	ABLSG-4.000MHZ-D-2-Y-T
4.194304	535-10594-1-ND	.79	.69	.60	535-10594-2-ND	294.00	ABLSG-4.194304MHZ-D-2-Y-T
4.433619	535-10595-1-ND	.79	.69	.60	535-10595-2-ND	294.00	ABLSG-4.433619MHZ-D-2-Y-T
4.500	535-10596-1-ND	.79	.69	.60	535-10596-2-ND	294.00	ABLSG-4.500MHZ-D-2-Y-T
4.9152	535-10597-1-ND	.79	.69	.60	535-10597-2-ND	294.00	ABLSG-4.9152MHZ-D-2-Y-T
5.000	535-10598-1-ND	.79	.69	.60	535-10598-2-ND	294.00	ABLSG-5.000MHZ-D-2-Y-T
6.000	535-10599-1-ND	.79	.69	.60	535-10599-2-ND	294.00	ABLSG-6.000MHZ-D-2-Y-T
6.144	535-10600-1-ND	.79	.69	.60	535-10600-2-ND	294.00	ABLSG-6.144MHZ-D-2-Y-T
6.7458	535-10601-1-ND	.79	.69	.60	535-10601-2-ND	294.00	ABLSG-6.7458MHZ-D-2-Y-T
7.3728	535-10602-1-ND	.79	.69	.60	535-10602-2-ND	294.00	ABLSG-7.3728MHZ-D-2-Y-T
8.000	535-10603-1-ND	.79	.69	.60	535-10603-2-ND	294.00	ABLSG-8.000MHZ-D-2-Y-T
9.216	535-10604-1-ND	.79	.69	.60	535-10604-2-ND	294.00	ABLSG-9.216MHZ-D-2-Y-T
9.8304	535-10605-1-ND	.79	.69	.60	535-10605-2-ND	294.00	ABLSG-9.8304MHZ-D-2-Y-T
10.000	535-10606-1-ND	.79	.69	.60	535-10606-2-ND	294.00	ABLSG-10.000MHZ-D-2-Y-T
10.240	535-10607-1-ND	.79	.69	.60	535-10607-2-ND	294.00	ABLSG-10.240MHZ-D-2-Y-T
11.0592	535-10608-1-ND	.79	.69	.60	535-10608-2-ND	294.00	ABLSG-11.0592MHZ-D-2-Y-T
12.000	535-10609-1-ND	.79	.69	.60	535-10609-2-ND	294.00	ABLSG-12.000MHZ-D-2-Y-T
12.288	535-10610-1-ND	.79	.69	.60	535-10610-2-ND	294.00	ABLSG-12.288MHZ-D-2-Y-T
13.000	535-10611-1-ND	.79	.69	.60	535-10611-2-ND	294.00	ABLSG-13.000MHZ-D-2-Y-T
13.500	535-10612-1-ND	.79	.69	.60	535-10612-2-ND	294.00	ABLSG-13.500MHZ-D-2-Y-T
14.31818	535-10613-1-ND	.79	.69	.60	535-10613-2-ND	294.00	ABLSG-14.31818MHZ-D-2-Y-T
14.7456	535-10614-1-ND	.79	.69	.60	535-10614-2-ND	294.00	ABLSG-14.7456MHZ-D-2-Y-T
15.000	535-10615-1-ND	.79	.69	.60	535-10615-2-ND	294.00	ABLSG-15.000MHZ-D-2-Y-T
15.360	535-10616-1-ND	.79	.69	.60	535-10616-2-ND	294.00	ABLSG-15.360MHZ-D-2-Y-T
16.000	535-10617-1-ND	.79	.69	.60	535-10617-2-ND	294.00	ABLSG-16.000MHZ-D-2-Y-T
16.384	535-10618-1-ND	.79	.69	.60	535-10618-2-ND	294.00	ABLSG-16.384MHZ-D-2-Y-T
16.9344	535-10619-1-ND	.79	.69	.60	535-10619-2-ND	294.00	ABLSG-16.9344MHZ-D-2-Y-T
18.000	535-10620-1-ND	.79	.69	.60	535-10620-2-ND	294.00	ABLSG-18.000MHZ-D-2-Y-T
18.432	535-10621-1-ND	.79	.69	.60	535-10621-2-ND	294.00	ABLSG-18.432MHZ-D-2-Y-T
19.6608	535-10622-1-ND	.79	.69	.60	535-10622-2-ND	294.00	ABLSG-19.6608MHZ-D-2-Y-T
20.000	535-10623-1-ND	.79	.69	.60	535-10623-2-ND	294.00	ABLSG-20.000MHZ-D-2-Y-T
24.000	535-10624-1-ND	.79	.69	.60	535-10624-2-ND	294.00	ABLSG-24.000MHZ-D-2-Y-T
24.576	535-10625-1-ND	.79	.69	.60	535-10625-2-ND	294.00	ABLSG-24.576MHZ-D-2-Y-F-T
25.000	535-10626-1-ND	.79	.69	.60	535-10626-2-ND	294.00	ABLSG-25.000MHZ-D-2-Y-F-T
27.000	535-10627-1-ND	.79	.69	.60	535-10627-2-ND	294.00	ABLSG-27.000MHZ-D-2-Y-F-T
28.63636	535-10628-1-ND	.79	.69	.60	535-10628-2-ND	294.00	ABLSG-28.63636MHZ-D-2-Y-F-T
30.000	535-10629-1-ND	.79	.69	.60	535-10629-2-ND	294.00	ABLSG-30.000MHZ-D-2-Y-F-T

Chip Set Crystals

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			T & R Pricing 1,000†	Abracon Part No.	Compatible Chip Sets and Applications
		1	10	50			
ABLS Series							
13.0625	535-10149-1-ND✔	1.05	.91	.80	392.00	ABLS-13.0625MHZ-10-K4Q-T	MICREL, MICRF112/113 Transmitter
13.025190	535-10150-1-ND✔	1.05	.91	.80	392.00	ABLS-13.025190MHZ-10-K4Q-T	MICREL, MICRF211/219 Receiver
13.262250	535-9703-1-ND	.98	.85	.75	364.00	ABLS-13.262250MHZ-10-J4Y	MICREL, MICRF211, 10x, carrier 850.0MHz
13.52127	535-10148-1-ND✔	1.01	.88	.77	378.00	ABLS-13.52127MHZ-10-J-4Q-T	MICREL, MICRF2XX Receiver
13.548560	535-9704-1-ND	.98	.85	.75	364.00	ABLS-13.548560MHZ-10-J4Y-T	MICREL, MICRF211, 50x, carrier 868.35MHz
14.08919	535-9705-1-ND	.98	.85	.75	364.00	ABLS-14.089190MHZ-10-J4Y	MICREL, MICRF211, 10x, carrier 903.0MHz
14.27643	535-9706-1-ND	.98	.85	.75	364.00	ABLS-14.276430MHZ-10-J4Y	MICREL, MICRF211, 30x, carrier 915.0MHz
14.29983	535-9707-1-ND	.98	.85	.75	364.00	ABLS-14.299830MHZ-10-J4Y	MICREL, MICRF211, 30x, carrier 916.5MHz
14.46366	535-9708-1-ND	.98	.85	.75	364.00	ABLS-14.463660MHZ-10-J4Y	MICREL, MICRF211, 10x, carrier 927.0MHz
14.82252	535-9709-1-ND	.98	.85	.75	364.00	ABLS-14.822520MHZ-10-J4Y	MICREL, MICRF211, 10x, carrier 950.0MHz
NEW! ABM7 Series NEW!							
9.81563	535-10154-1-ND	1.39	1.21	1.06	518.00	ABM7-9.81563MHZ-10-R50-J4Q-T	MICREL, MICRF2XX Receiver
13.52127	535-10153-1-ND	1.39	1.21	1.06	518.00	ABM7-13.52127MHZ-10-R50-J4Q-T	MICREL, MICRF2XX Receiver
9.84375	535-10152-1-ND	1.39	1.21	1.06	518.00	ABM7-9.84375MHZ-10-R50-K4Q-T	MICREL, MICRF112/113 Transmitter
13.560	535-10151-1-ND	1.39	1.21	1.06	518.00	ABM7-13.560MHZ-10-R50-K4Q-T	MICREL, MICRF112/113 Transmitter
NEW! ABM8 Series NEW!							
24.000	535-10155-1-ND	2.93	2.54	2.23	1092.00	ABM8-24.000MHZ-R60-D-1-W-T	EMBER 565-2400-001
114.285	535-10306-1-ND	4.31	3.74	3.28	1610.00	ABM8-166-114.285MHZ-T	SiLabs Si5316

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND.
Note: For additional information please see manufacturer's data sheet

ABSM2 Series — 12.5 x 4.6 Molded Plastic SMD Crystals

Specifications:

- **Frequency Stability:** ±50ppm Max., 10°C ~ 60°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -10°C ~ 60°C
- **Load Capacitance:** 18pF

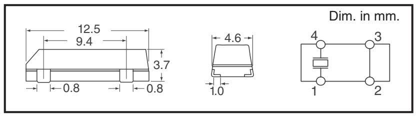

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABLS2-xxxMHZ-4-T Series — Crystals							
3.579545	535-9722-1-ND	1.24	1.08	.95	535-9722-2-ND	462.00	ABSM2-3.579545MHZ-4-T
3.6864	535-9723-1-ND	1.24	1.08	.95	535-9723-2-ND	462.00	ABSM2-3.6864MHZ-4-T
4.000000	535-9724-1-ND	1.24	1.08	.95	535-9724-2-ND	462.00	ABSM2-4.000MHZ-4-T
4.800000	535-9725-1-ND	1.24	1.08	.95	535-9725-2-ND	462.00	ABSM2-4.800MHZ-4-T
6.000000	535-9726-1-ND	1.24	1.08	.95	535-9726-2-ND	462.00	ABSM2-6.000MHZ-4-T
7.372800	535-9727-1-ND	1.24	1.08	.95	535-9727-2-ND	462.00	ABSM2-7.3728MHZ-4-T
8.192000	535-9728-1-ND	1.24	1.08	.95	535-9728-2-ND	462.00	ABSM2-8.192MHZ-4-T
8.000000	535-9729-1-ND	1.24	1.08	.95	535-9729-2-ND	462.00	ABSM2-8.000MHZ-4-T
10.000000	535-9730-1-ND	1.24	1.08	.95	535-9730-2-ND	462.00	ABSM2-10.000MHZ-4-T
11.059200	535-9731-1-ND	1.24	1.08	.95	535-9731-2-ND	462.00	ABSM2-11.0592MHZ-4-T
12.000000	535-9732-1-ND	1.24	1.08	.95	535-9732-2-ND	462.00	ABSM2-12.000MHZ-4-T
12.288000	535-9733-1-ND	1.24	1.08	.95	535-9733-2-ND	462.00	ABSM2-12.288MHZ-4-T
14.318180	535-9734-1-ND	1.24	1.08	.95	535-9734-2-ND	462.00	ABSM2-14.31818MHZ-4-T
14.745600	535-9735-1-ND	1.24	1.08	.95	535-9735-2-ND	462.00	ABSM2-14.7456MHZ-4-T
16.000000	535-9736-1-ND	1.24	1.08	.95	535-9736-2-ND	462.00	ABSM2-16.000MHZ-4-T
16.934400	535-9737-1-ND	1.24	1.08	.95	535-9737-2-ND	462.00	ABSM2-16.9344MHZ-4-T
19.660800	535-9738-1-ND	1.24	1.08	.95	535-9738-2-ND	462.00	ABSM2-19.6608MHZ-4-T
20.000000	535-9739-1-ND	1.24	1.08	.95	535-9739-2-ND	462.00	ABSM2-20.000MHZ-4-T
24.000000	535-9740-1-ND	1.24	1.08	.95	535-9740-2-ND	462.00	ABSM2-24.000MHZ-4-T
24.576000	535-9741-1-ND	1.24	1.08	.95	535-9741-2-ND	462.00	ABSM2-24.576MHZ-4-T
25.000000	535-9742-1-ND	1.24	1.08	.95	535-9742-2-ND	462.00	ABSM2-25.000MHZ-4-T
27.000000	535-9743-1-ND	1.24	1.08	.95	535-9743-2-ND	462.00	ABSM2-27.000MHZ-4-T
32.000000	535-9744-1-ND	1.24	1.08	.95	535-9744-2-ND	462.00	ABSM2-32.000MHZ-4F-T
32.768000	535-9745-1-ND	1.24	1.08	.95	535-9745-2-ND	462.00	ABSM2-32.768MHZ-4F-T
40.000000	535-9746-1-ND	1.24	1.08	.95	535-9746-2-ND	462.00	ABSM2-40.000MHZ-4F-T
48.000000	535-9747-1-ND	1.24	1.08	.95	535-9747-2-ND	462.00	ABSM2-48.000MHZ-4F-T
50.000000	535-9748-1-ND	1.24	1.08	.95	535-9748-2-ND	462.00	ABSM2-50.000MHZ-4F-T
60.000000	535-9749-1-ND	1.24	1.08	.95	535-9749-2-ND	462.00	ABSM2-60.000MHZ-4F-T
64.000000	535-9750-1-ND	1.24	1.08	.95	535-9750-2-ND	462.00	ABSM2-64.000MHZ-4F-T

ABM3 Series — 5.0 x 3.2 SMD Crystals

Dim. in mm.

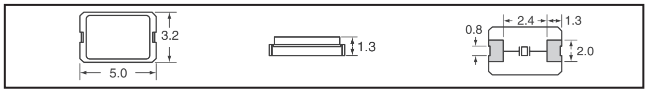

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM3-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18pF
ABM3-xxxMHZ-D2YT	±30ppm	±20ppm	-40°C ~ 85°C	18pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABM3-xxxMHZ-B2-T							
12.00000	535-9100-1-ND	1.88	1.63	1.43	535-9100-2-ND	700.00	ABM3-12.000MHZ-B2-T
13.56000	535-9101-1-ND	1.88	1.63	1.43	535-9101-2-ND	700.00	ABM3-13.560MHZ-B2-T
14.31818	535-9102-1-ND	1.88	1.63	1.43	535-9102-2-ND	700.00	ABM3-14.31818MHZ-B2-T
16.00000	535-9103-1-ND	1.88	1.63	1.43	535-9103-2-ND	700.00	ABM3-16.000MHZ-B2-T

(Continued)

ABM3 Series — 5.0 x 3.2 SMD Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
18.43200	535-9104-1-ND	1.88	1.63	1.43	535-9104-2-ND	700.00	ABM3-18.432MHZ-B2-T
20.00000	535-9105-1-ND	1.88	1.63	1.43	535-9105-2-ND	700.00	ABM3-20.000MHZ-B2-T
24.00000	535-9106-1-ND	1.88	1.63	1.43	535-9106-2-ND	700.00	ABM3-24.000MHZ-B2-T
24.57600	535-9107-1-ND	1.88	1.63	1.43	535-9107-2-ND	700.00	ABM3-24.576MHZ-B2-T
25.00000	535-9108-1-ND	1.88	1.63	1.43	535-9108-2-ND	700.00	ABM3-25.000MHZ-B2-T
27.00000	535-9109-1-ND	1.88	1.63	1.43	535-9109-2-ND	700.00	ABM3-27.000MHZ-B2-T
28.63630	535-9110-1-ND	1.88	1.63	1.43	535-9110-2-ND	700.00	ABM3-28.6363MHZ-B2-T
29.49120	535-9111-1-ND	1.88	1.63	1.43	535-9111-2-ND	700.00	ABM3-29.4912MHZ-B2-T
30.00000	535-9112-1-ND	1.88	1.63	1.43	535-9112-2-ND	700.00	ABM3-30.000MHZ-B2-T
33.00000	535-9113-1-ND	1.88	1.63	1.43	535-9113-2-ND	700.00	ABM3-33.000MHZ-B2-T
40.00000	535-9114-1-ND	1.88	1.63	1.43	535-9114-2-ND	700.00	ABM3-40.000MHZ-B2-T
48.00000	535-9115-1-ND	1.88	1.63	1.43	535-9115-2-ND	700.00	ABM3-48.000MHZ-B2-T
NEW! ABM3-xxxMHZ-D2Y-T NEW!							
8.000	535-10630-1-ND	1.50	1.30	1.14	535-10630-2-ND	560.00	ABM3-8.000MHZ-D2Y-T
10.0000	535-10631-1-ND	1.50	1.30	1.14	535-10631-2-ND	560.00	ABM3-10.0000MHZ-D2Y-T
11.0592	535-10632-1-ND	1.50	1.30	1.14	535-10632-2-ND	560.00	ABM3-11.0592MHZ-D2Y-T
11.2896	535-10633-1-ND	1.50	1.30	1.14	535-10633-2-ND	560.00	ABM3-11.2896MHZ-D2Y-T
12.000	535-10634-1-ND	1.50	1.30	1.14	535-10634-2-ND	560.00	ABM3-12.000MHZ-D2Y-T
12.288	535-10635-1-ND	1.50	1.30	1.14	535-10635-2-ND	560.00	ABM3-12.288MHZ-D2Y-T
14.31818	535-10636-1-ND	1.50	1.30	1.14	535-10636-2-ND	560.00	ABM3-14.31818MHZ-D2Y-T
14.7456	535-10637-1-ND	1.50	1.30	1.14	535-10637-2-ND	560.00	ABM3-14.7456MHZ-D2Y-T
16.000	535-10638-1-ND	1.50	1.30	1.14	535-10638-2-ND	560.00	ABM3-16.000MHZ-D2Y-T
18.432	535-10639-1-ND	1.50	1.30	1.14	535-10639-2-ND	560.00	ABM3-18.432MHZ-D2Y-T
19.6608	535-10640-1-ND	1.50	1.30	1.14	535-10640-2-ND	560.00	ABM3-19.6608MHZ-D2Y-T
20.000	535-10641-1-ND	1.50	1.30	1.14	535-10641-2-ND	560.00	ABM3-20.000MHZ-D2Y-T
22.1184	535-10642-1-ND	1.50	1.30	1.14	535-10642-2-ND	560.00	ABM3-22.1184MHZ-D2Y-T
24.000	535-10643-1-ND	1.50	1.30	1.14	535-10643-2-ND	560.00	ABM3-24.000MHZ-D2Y-T
24.576	535-10644-1-ND	1.50	1.30	1.14	535-10644-2-ND	560.00	ABM3-24.576MHZ-D2Y-T
25.000	535-10645-1-ND	1.50	1.30	1.14	535-10645-2-ND	560.00	ABM3-25.000MHZ-D2Y-T
27.000	535-10646-1-ND	1.50	1.30	1.14	535-10646-2-ND	560.00	ABM3-27.000MHZ-D2Y-T
30.000	535-10647-1-ND	1.50	1.30	1.14	535-10647-2-ND	560.00	ABM3-30.000MHZ-D2Y-T
32.000	535-10648-1-ND	1.50	1.30	1.14	535-10648-2-ND	560.00	ABM3-32.000MHZ-D2Y-T
33.000	535-10649-1-ND	1.50	1.30	1.14	535-10649-2-ND	560.00	ABM3-33.000MHZ-D2Y-T
40.000	535-10650-1-ND	1.65	1.43	1.26	535-10650-2-ND	616.00	ABM3-40.000MHZ-D2Y-F-T
48.000	535-10651-1-ND	1.65	1.43	1.26	535-10651-2-ND	616.00	ABM3-48.000MHZ-D2Y-F-T
50.000	535-10652-1-ND	1.65	1.43	1.26	535-10652-2-ND	616.00	ABM3-50.000MHZ-D2Y-F-T

ABM3B Series — 5.0 x 3.2 SMD Crystals

Dim. in mm.

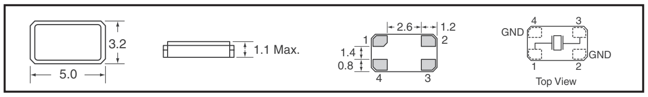

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM3B-xxxMHZ-10-1-U-T	±10ppm	±10ppm	-10°C ~ 60°C	10.0pF
ABM3B-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18.0pF
ABM3B-xxxMHZ-10-D4	±50ppm	±30ppm	-40°C ~ 85°C	10.0pF
ABM3B-xxxMHZ-R60-D1W-T	±25ppm	±10ppm	-40°C ~ 85°C	18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABM3B-xxxMHZ-10-1-U-T Series							
8.00000	535-9721-1-ND	2.36	2.05	1.80	535-9721-2-ND	882.00	ABM3B-8.000MHZ-10-1-U-T
10.00000	300-8195-1-ND	2.36	2.05	1.80	300-8195-2-ND	882.00	ABM3B-10.000MHZ-10-1-U-T
11.05920	300-8196-1-ND	2.36	2.05	1.80	300-8196-2-ND	882.00	ABM3B-11.0592MHZ-10-1-U-T
12.00000	300-8197-1-ND	2.36	2.05	1.80	300-8197-2-ND	882.00	ABM3B-12.000MHZ-10-1-U-T
12.28800	300-8198-1-ND	2.36	2.05	1.80	300-8198-2-ND	882.00	ABM3B-12.288MHZ-10-1-U-T
12.80000	300-8199-1-ND	2.36	2.05	1.80	300-8199-2-ND	882.00	ABM3B-12.800MHZ-10-1-U-T
13.00000	300-8200-1-ND	2.36	2.05	1.80	300-8200-2-ND	882.00	ABM3B-13.000MHZ-10-1-U-T
13.50000	300-8201-1-ND	2.36	2.05	1.80	300-8201-2-ND	882.00	ABM3B-13.500MHZ-10-1-U-T
13.56000	300-8202-1-ND	2.36	2.05	1.80	300-8202-2-ND	882.00	ABM3B-13.560MHZ-10-1-U-T
14.40000	300-8203-1-ND	2.36	2.05	1.80	300-8203-2-ND	882.00	ABM3B-14.400MHZ-10-1-U-T
14.74560	300-8204-1-ND	2.36	2.05	1.80	300-8204-2-ND	882.00	ABM3B-14.7456MHZ-10-1-U-T
15.36000	300-8205-1-ND	2.36	2.05	1.80	300-8205-2-ND	882.00	ABM3B-15.360MHZ-10-1-U-T
16.00000	300-8206-1-ND	2.36	2.05	1.80	300-8206-2-ND	882.00	ABM3B-16.000MHZ-10-1-U-T
16.38400	300-8207-1-ND	1.73	1.49	1.26	300-8207-2-ND	819.00	ABM3B-16.384MHZ-10-1-U-T
16.80000	300-8208-1-ND	2.36	2.05	1.80	300-8208-2-ND	882.00	ABM3B-16.800MHZ-10-1-U-T
18.43200	300-8209-1-ND	2.36	2.05	1.80	300-8209-2-ND	882.00	ABM3B-18.432MHZ-10-1-U-T
19.20000	300-8210-1-ND	2.36	2.05	1.80	300-8210-2-ND	882.00	ABM3B-19.200MHZ-10-1-U-T
19.44000	300-8211-1-ND	2.36	2.05	1.80	300-8211-2-ND	882.00	ABM3B-19.440MHZ-10-1-U-T
19.68000	300-8212-1-ND	2.36	2.05	1.80	300-8212-2-ND	882.00	ABM3B-19.680MHZ-10-1-U-T
19.80000	300-8213-1-ND	2.36	2.05	1.80	300-8213-2-ND	882.00	ABM3B-19.800MHZ-10-1-U-T
20.00000	300-8214-1-ND	2.36	2.05	1.80	300-8214-2-ND	882.00	ABM3B-20.000MHZ-10-1-U-T
22.00000	300-8215-1-ND	2.36	2.05	1.80	300-8215-2-ND	882.00	ABM3B-22.000MHZ-10-1-U-T
24.00000	300-8216-1-ND	2.36	2.05	1.80	300-8216-2-ND	882.00	ABM3B-24.000MHZ-10-1-U-T
24.57600	300-8217-1-ND	2.36	2.05	1.80	300-8217-2-ND	882.00	ABM3B-24.576MHZ-10-1-U-T
25.00000	300-8218-1-ND	2.36	2.05	1.80	300-8218-2-ND	882.00	ABM3B-25.000MHZ-10-1-U-T
26.00000	300-8219-1-ND	2.36	2.05	1.80	300-8219-2-ND	882.00	ABM3B-26.000MHZ-10-1-U-T
28.63636	300-8220-1-ND	2.36	2.05	1.80	300-8220-2-ND	882.00	ABM3B-28.63636MHZ-10-1-U-T
29.49120	300-8221-1-ND	2.36	2.05	1.80	300-8221-2-ND	882.00	ABM3B-29.4912MHZ-10-1-U-T
30.00000	300-8222-1-ND	2.36	2.05	1.80	300-8222-2-ND	882.00	ABM3B-30.000MHZ-10-1-U-T
40.00000	300-8223-1-ND	2.36	2.05	1.80	300-8223-2-ND	882.00	ABM3B-40.000MHZ-10-1-U-T
44.00000	300-8224-1-ND	2.36	2.05	1.80	300-8224-2-ND	882.00	ABM3B-44.000MHZ-10-1-U-T
48.00000	300-8225-1-ND	2.36	2.05	1.80	300-8225-2-ND	882.00	ABM3B-48.000MHZ-10-1-U-T
ABM3B-xxxMHZ-B2-T Series							
8.00000	535-9720-1-ND	1.88	1.63	1.43	535-9720-2-ND	700.00	ABM3B-8.000MHZ-B2-T
12.00000	535-9116-1-ND	1.88	1.63	1.43	535-9116-2-ND	700.00	ABM3B-12.000MHZ-B2-T
12.28800	535-9117-1-ND	1.88	1.63	1.43	535-9117-2-ND	700.00	ABM3B-12.288MHZ-B2-T
13.00000	535-9118-1-ND	1.88	1.63	1.43	535-9118-2-ND	700.00	ABM3B-13.000MHZ-B2-T
13.82400	535-9119-1-ND	1.88	1.63	1.43	535-9119-2-ND	700.00	ABM3B-13.824MHZ-B2-T
14.31818	535-9120-1-ND	1.88	1.63	1.43	535-9120-2-ND	700.00	ABM3B-14.31818MHZ-B2-T
15.36000	535-9121-1-ND	1.88	1.63	1.43	535-9121-2-ND	700.00	ABM3B-15.360MHZ-B2-T
16.00000	535-9122-1-ND	1.88	1.63	1.43	535-9122-2-ND	700.00	ABM3B-16.000MHZ-B2-T
16.38400	535-9123-1-ND	1.88	1.63	1.43	535-9123-2-ND	700.00	ABM3B-16.384MHZ-B2-T
18.43200	535-9124-1-ND	1.88	1.63	1.43	535-9124-2-ND	700.00	ABM3B-18.432MHZ-B2-T
20.00000	535-9125-1-ND	1.88	1.63	1.43	535-9125-2-ND	700.00	ABM3B-20.000MHZ-B2-T
24.00000	535-9126-1-ND	1.88	1.63	1.43	535-9126-2-ND	700.00	ABM3B-24.000MHZ-B2-T
24.57600	535-9127-1-ND	1.88	1.63	1.43	535-9127-2-ND	700.00	ABM3B-24.576MHZ-B2-T
25.00000	535-9128-1-ND	1.88	1.63	1.43	535-9128-2-ND	700.00	ABM3B-25.000MHZ-B2-T
27.00000	535-9129-1-ND	1.88	1.63	1.43	535-9129-2-ND	700.00	ABM3B-27.000MHZ-B2-T
30.00000	535-9130-1-ND	1.88	1.63	1.43	535-9130-2-ND	700.00	ABM3B-30.000MHZ-B2-T
32.00000	535-9131-1-ND	1.88	1.63	1.43	535-9131-2-ND	700.00	ABM3B-32.000MHZ-B2-T
40.00000	535-9132-1-ND	1.88	1.63	1.43	535-9132-2-ND	700.00	ABM3B-40.000MHZ-B2-T
48.00000	535-9133-1-ND	1.88	1.63	1.43	535-9133-2-ND	700.00	ABM3B-48.000MHZ-B2-T
ABM3B-xxxMHZ-10-D4 Series — Crystals for RF Transceivers							
12.18750	535-9698-1-ND	2.36	2.05	1.80	535-9698-2-ND	364.00	ABM3B-12.1875MHZ-10-D4
13.06250	535-9699-1-ND	2.36	2.05	1.80	535-9699-2-ND	882.00	ABM3B-13.0625MHZ-10-D4
ABM3B-xxxMHZ-R60-D1W-T Series — Zigbee Specification Crystal							
24.00000	535-9700-1-ND‡	2.06	1.79	1.57	535-9700-2-ND‡	770.00	ABM3B-24.000MHZ-R60-D1W-T

‡ See data sheet for electrical specifications

ABM7 Series — 6.0 x 3.3 SMD Crystals

Dim. in mm.

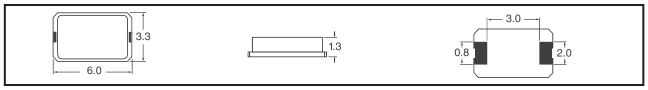

Specifications: • **Frequency Stability:** ±30ppm, -40°C ~ 85°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
8.00000	535-9831-1-ND	1.31	1.14	1.00	535-9831-2-ND	490.00	ABM7-8.000MHZ-D-2-Y-T
9.83040	535-9832-1-ND	1.31	1.14	1.00	535-9832-2-ND	490.00	ABM7-9.8304MHZ-D-2-Y-T
10.00000	535-9833-1-ND	1.31	1.14	1.00	535-9833-2-ND	490.00	ABM7-10.0000MHZ-D-2-Y-T
11.05920	535-9834-1-ND	1.31	1.14	1.00	535-9834-2-ND	490.00	ABM7-11.0592MHZ-D-2-Y-T
11.28960	535-9835-1-ND	1.31	1.14	1.00	535-9835-2-ND	490.00	ABM7-11.2896MHZ-D-2-Y-T
12.00000	535-9836-1-ND	1.31	1.14	1.00	535-9836-2-ND	490.00	ABM7-12.000MHZ-D-2-Y-T
12.28800	535-9837-1-ND	1.31	1.14	1.00	535-9837-2-ND	490.00	ABM7-12.288MHZ-D-2-Y-T
14.31818	535-9838-1-ND	1.31	1.14	1.00	535-9838-2-ND	490.00	ABM7-14.31818MHZ-D-2-Y-T
14.74560	535-9839-1-ND	1.31	1.14	1.00	535-9839-2-ND	490.00	ABM7-14.7456MHZ-D-2-Y-T
16.00000	535-9840-1-ND	1.31	1.14	1.00	535-9840-2-ND	490.00	ABM7-16.000MHZ-D-2-Y-T
18.43200	535-9841-1-ND	1.31	1.14	1.00	535-9841-2-ND	490.00	ABM7-18.432MHZ-D-2-Y-T
19.66080	535-9842-1-ND	1.31	1.14	1.00	535-9842-2-ND	490.00	ABM7-19.6608MHZ-D-2-Y-T
20.00000	535-9843-1-ND	1.31	1.14	1.00	535-9843-2-ND	490.00	ABM7-20.000MHZ-D-2-Y-T
22.11840	535-9844-1-ND	1.31	1.14	1.00	535-9844-2-ND	490.00	ABM7-22.1184MHZ-D-2-Y-T
24.00000	535-9845-1-ND	1.31	1.14	1.00	535-9845-2-ND	490.00	ABM7-24.000MHZ-D-2-Y-T
24.57600	535-9846-1-ND	1.31	1.14	1.00	535-9846-2-ND	490.00	ABM7-24.576MHZ-D-2-Y-T
25.00000	535-9847-1-ND	1.31	1.14	1.00	535-9847-2-ND	490.00	ABM7-25.000MHZ-D-2-Y-T
27.00000	535-9848-1-ND	1.31	1.14	1.00	535-9848-2-ND	490.00	ABM7-27.000MHZ-D-2-Y-T
30.00000	535-9849-1-ND	1.31	1.14	1.00	535-9849-2-ND	490.00	ABM7-30.000MHZ-D-2-Y-T
32.00000	535-9850-1-ND	1.31	1.14	1.00	535-9850-2-ND	490.00	ABM7-32.000MHZ-D-2-Y-T
33.00000	535-9851-1-ND	1.31	1.14	1.00	535-9851-2-ND	490.00	ABM7-33.000MHZ-D-2-Y-T
40.00000	535-9852-1-ND	1.31	1.14	1.00	535-9852-2-ND	490.00	ABM7-40.000MHZ-D-2-Y-F-T
48.00000	535-9853-1-ND	1.46	1.27	1.12	535-9853-2-ND	546.00	ABM7-48.000MHZ-D-2-Y-F-T
50.00000	535-9854-1-ND	1.46	1.27	1.12	535-9854-2-ND	546.00	ABM7-50.000MHZ-D-2-Y-F-T

ABM8 Series — 3.2 x 2.5 SMD Crystals

Dim. in mm.

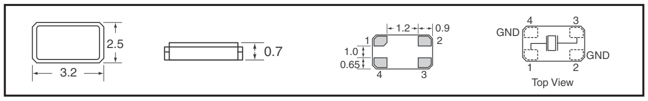

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM8-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18.0pF
ABM8-xxxMHZ-10-1-U-T	±10ppm	±10ppm	-10°C ~ 60°C	10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABM8-xxxMHZ-B2-T Series							
12.00000	535-9826-1-ND	2.63	2.28	2.00	535-9826-2-ND	980.00	ABM8-12.000MHZ-B2-T
13.00000	535-9827-1-ND	2.63	2.28	2.00	535-9827-2-ND	980.00	ABM8-13.000MHZ-B2-T
14.31818	535-9828-1-ND	2.63	2.28	2.00	535-9828-2-ND	980.00	ABM8-14.31818MHZ-B2-T
16.00000	535-9134-1-ND	2.63	2.28	2.00	535-9134-2-ND	980.00	ABM8-16.000MHZ-B2-T
16.38400	535-9829-1-ND	2.63	2.28	2.00	535-9829-2-ND	980.00	ABM8-16.384MHZ-B2-T
18.43200	535-9135-1-ND	2.63	2.28	2.00	535-9135-2-ND	980.00	ABM8-18.432MHZ-B2-T
20.00000	535-9136-1-ND	2.63	2.28	2.00	535-9136-2-ND	980.00	ABM8-20.000MHZ-B2-T
22.11840	535-9137-1-ND	2.63	2.28	2.00	535-9137-2-ND	980.00	ABM8-22.1184MHZ-B2-T
24.00000	535-9138-1-ND	2.63	2.28	2.00	535-9138-2-ND	980.00	ABM8-24.000MHZ-B2-T
24.57600	535-9139-1-ND	2.63	2.28	2.00	535-9139-2-ND	980.00	ABM8-24.576MHZ-B2-T
25.00000	535-9140-1-ND	2.63	2.28	2.00	535-9140-2-ND	980.00	ABM8-25.000MHZ-B2-T
27.00000	535-9141-1-ND	2.63	2.28	2.00	535-9141-2-ND	980.00	ABM8-27.000MHZ-B2-T
28.37500	535-9142-1-ND	2.63	2.28	2.00	535-9142-2-ND	980.00	ABM8-28.375MHZ-B2-T
28.63636	535-9143-1-ND	2.63	2.28	2.00	535-9143-2-ND	980.00	ABM8-28.63636MHZ-B2-T
29.49120	535-9144-1-ND	2.63	2.28	2.00	535-9144-2-ND	980.00	ABM8-29.4912MHZ-B2-T
30.00000	535-9145-1-ND	2.63	2.28	2.00	535-9145-2-ND	980.00	ABM8-30.000MHZ-B2-T
32.00000	535-9830-1-ND	2.63	2.28	2.00	535-9830-2-ND	980.00	ABM8-32.000MHZ-B2-T
33.00000	535-9146-1-ND	2.63	2.28	2.00	535-9146-2-ND	980.00	ABM8-33.000MHZ-B2-T
40.00000	535-9147-1-ND	2.63	2.28	2.00	535-9147-2-ND	980.00	ABM8-40.000MHZ-B2-T
44.00000	535-9148-1-ND	2.63	2.28	2.00	535-9148-2-ND	980.00	ABM8-44.000MHZ-B2-T
48.00000	535-9149-1-ND	2.63	2.28	2.00	535-9149-2-ND	980.00	ABM8-48.000MHZ-B2-T
ABM8-xxxMHZ-10-1-U-T Series — Wireless Tight Stability Crystals							
13.00000	535-9673-1-ND	3.34	2.90	2.54	535-9673-2-ND	1246.00	ABM8-13.000MHZ-10-1-U-T
14.74560	535-9674-1-ND	3.34	2.90	2.54	535-9674-2-ND	1246.00	ABM8-14.7456MHZ-10-1-U-T

(Continued)

ABM8 Series — 3.2 x 2.5 SMD Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
16.00000	535-9675-1-ND	3.34	2.90	2.54	535-9675-2-ND	1246.00	ABM8-16.000MHZ-10-1-U-T
16.36760	300-8226-1-ND	3.34	2.90	2.54	300-8226-2-ND	1246.00	ABM8-16.3676MHZ-10-1-U-T
16.38400	535-9676-1-ND	3.34	2.90	2.54	535-9676-2-ND	1246.00	ABM8-16.384MHZ-10-1-U-T
16.80000	300-8227-1-ND	3.34	2.90	2.54	300-8227-2-ND	1246.00	ABM8-16.800MHZ-10-1-U-T
19.20000	300-8228-1-ND	3.34	2.90	2.54	300-8228-2-ND	1246.00	ABM8-19.200MHZ-10-1-U-T
20.00000	535-9677-1-ND	3.34	2.90	2.54	535-9677-2-ND	1246.00	ABM8-20.000MHZ-10-1-U-T
24.55350	300-8229-1-ND	2.45	2.10	1.78	300-8229-2-ND	1157.00	ABM8-24.5535MHZ-10-1-U-T
24.57600	535-9678-1-ND	2.45	2.10	1.78	535-9678-2-ND	1157.00	ABM8-24.576MHZ-10-1-U-T
26.00000	300-8230-1-ND	3.34	2.90	2.54	300-8230-2-ND	1246.00	ABM8-26.000MHZ-10-1-U-T
27.00000	535-9679-1-ND	3.34	2.90	2.54	535-9679-2-ND	1246.00	ABM8-27.000MHZ-10-1-U-T
30.00000	535-9680-1-ND	3.34	2.90	2.54	535-9680-2-ND	1246.00	ABM8-30.000MHZ-10-1-U-T
36.00000	535-9681-1-ND	2.45	2.10	1.78	535-9681-2-ND	1157.00	ABM8-36.000MHZ-10-1-U-T
40.00000	535-9682-1-ND	2.45	2.10	1.78	535-9682-2-ND	1157.00	ABM8-40.000MHZ-10-1-U-T

NEW! ABM8G Series — 3.2 x 2.5 SMD Crystals

Dim. in mm.

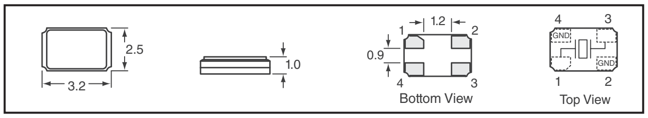

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM8G-xxxMHZ-18-D2Y-T	±30ppm	±20ppm	-40°C ~ 85°C	18.0pF
ABM8G-xxxMHZ-B4Y-T	±30ppm	±30ppm	-20°C ~ 70°C	10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABM8G-xxxMHZ-18-D2Y-Y Series — Glass Sealed							
12.000	535-10261-1-ND	1.46	1.27	1.12	535-10261-2-ND	546.00	ABM8G-12.000MHZ-18-D2Y-T
12.288	535-10262-1-ND	1.46	1.27	1.12	535-10262-2-ND	546.00	ABM8G-12.288MHZ-18-D2Y-T
13.000	535-10263-1-ND	1.46	1.27	1.12	535-10263-2-ND	546.00	ABM8G-13.000MHZ-18-D2Y-T
13.560	535-10264-1-ND	1.46	1.27	1.12	535-10264-2-ND	546.00	ABM8G-13.560MHZ-18-D2Y-T
14.31818	535-10265-1-ND	1.46	1.27	1.12	535-10265-2-ND	546.00	ABM8G-14.31818MHZ-18-D2Y-T
14.7456	535-10266-1-ND	1.46	1.27	1.12	535-10266-2-ND	546.00	ABM8G-14.7456MHZ-18-D2Y-T
16.000	535-10267-1-ND	1.46	1.27	1.12	535-10267-2-ND	546.00	ABM8G-16.000MHZ-18-D2Y-T
16.384	535-10268-1-ND	1.46	1.27	1.12	535-10268-2-ND	546.00	ABM8G-16.384MHZ-18-D2Y-T
18.432	535-10269-1-ND	1.46	1.27	1.12	535-10269-2-ND	546.00	ABM8G-18.432MHZ-18-D2Y-T
19.6608	535-10270-1-ND	1.46	1.27	1.12	535-10270-2-ND	546.00	ABM8G-19.6608MHZ-18-D2Y-T
20.000	535-10271-1-ND	1.46	1.27	1.12	535-10271-2-ND	546.00	ABM8G-20.000MHZ-18-D2Y-T
22.1184	535-10272-1-ND	1.46	1.27	1.12	535-10272-2-ND	546.00	ABM8G-22.1184MHZ-18-D2Y-T
24.000	535-10273-1-ND	1.46	1.27	1.12	535-10273-2-ND	546.00	ABM8G-24.000MHZ-18-D2Y-T
24.576	535-10274-1-ND	1.46	1.27	1.12	535-10274-2-ND	546.00	ABM8G-24.576MHZ-18-D2Y-T
25.000	535-10275-1-ND	1.46	1.27	1.12	535-10275-2-ND	546.00	ABM8G-25.000MHZ-18-D2Y-T
26.000	535-10276-1-ND	1.46	1.27	1.12	535-10276-2-ND	546.00	ABM8G-26.000MHZ-18-D2Y-T
27.000	535-10277-1-ND	1.46	1.27	1.12	535-10277-2-ND	546.00	ABM8G-27.000MHZ-18-D2Y-T
28.63636	535-10278-1-ND	1.46	1.27	1.12	535-10278-2-ND	546.00	ABM8G-28.63636MHZ-18-D2Y-T
30.000	535-10279-1-ND	1.46	1.27	1.12	535-10279-2-ND	546.00	ABM8G-30.000MHZ-18-D2Y-T
33.000	535-10280-1-ND	1.46	1.27	1.12	535-10280-2-ND	546.00	ABM8G-33.000MHZ-18-D2Y-T
40.000	535-10281-1-ND	1.46	1.27	1.12	535-10281-2-ND	546.00	ABM8G-40.000MHZ-18-D2Y-T
48.000	535-10282-1-ND	1.46	1.27	1.12	535-10282-2-ND	546.00	ABM8G-48.000MHZ-18-D2Y-T
ABM8G-xxxMHZ-B4Y-T Series — Glass Sealed							
12.000	535-10283-1-ND	1.24	1.08	.95	535-10283-2-ND	462.00	ABM8G-12.000MHZ-B4Y-T
12.288	535-10284-1-ND	1.24	1.08	.95	535-10284-2-ND	462.00	ABM8G-12.288MHZ-B4Y-T
13.000	535-10285-1-ND	1.24	1.08	.95	535-10285-2-ND	462.00	ABM8G-13.000MHZ-B4Y-T
13.560	535-10286-1-ND	1.24	1.08	.95	535-10286-2-ND	462.00	ABM8G-13.560MHZ-B4Y-T
14.31818	535-10287-1-ND	1.24	1.08	.95	535-10287-2-ND	462.00	ABM8G-14.31818MHZ-B4Y-T
14.7456	535-10288-1-ND	1.24	1.08	.95	535-10288-2-ND	462.00	ABM8G-14.7456MHZ-B4Y-T
16.000	535-10289-1-ND	1.24	1.08	.95	535-10289-2-ND	462.00	ABM8G-16.000MHZ-B4Y-T
16.384	535-10290-1-ND	1.24	1.08	.95	535-10290-2-ND	462.00	ABM8G-16.384MHZ-B4Y-T
18.432	535-10291-1-ND	1.24	1.08	.95	535-10291-2-ND	462.00	ABM8G-18.432MHZ-B4Y-T
19.6608	535-10292-1-ND	1.24	1.08	.95	535-10292-2-ND	462.00	ABM8G-19.6608MHZ-B4Y-T
20.000	535-10293-1-ND	1.24	1.08	.95	535-10293-2-ND	462.00	ABM8G-20.000MHZ-B4Y-T
22.1184	535-10294-1-ND	1.24	1.08	.95	535-10294-2-ND	462.00	ABM8G-22.1184MHZ-B4Y-T
24.000	535-10295-1-ND	1.24	1.08	.95	535-10295-2-ND	462.00	ABM8G-24.000MHZ-B4Y-T
24.576	535-10296-1-ND	1.24	1.08	.95	535-10296-2-ND	462.00	ABM8G-24.576MHZ-B4Y-T
25.000	535-10297-1-ND	1.24	1.08	.95	535-10297-2-ND	462.00	ABM8G-25.000MHZ-B4Y-T
26.000	535-10298-1-ND	1.24	1.08	.95	535-10298-2-ND	462.00	ABM8G-26.000MHZ-B4Y-T
27.000	535-10299-1-ND	1.24	1.08	.95	535-10299-2-ND	462.00	ABM8G-27.000MHZ-B4Y-T
28.63636	535-10300-1-ND	1.24	1.08	.95	535-10300-2-ND	462.00	ABM8G-28.63636MHZ-B4Y-T
30.000	535-10301-1-ND	1.24	1.08	.95	535-10301-2-ND	462.00	ABM8G-30.000MHZ-B4Y-T
32.000	535-10302-1-ND	1.24	1.08	.95	535-10302-2-ND	462.00	ABM8G-32.000MHZ-B4Y-T
33.000	535-10303-1-ND	1.24	1.08	.95	535-10303-2-ND	462.00	ABM8G-33.000MHZ-B4Y-T
40.000	535-10304-1-ND	1.24	1.08	.95	535-10304-2-ND	462.00	ABM8G-40.000MHZ-B4Y-T
48.000	535-10305-1-ND	1.24	1.08	.95	535-10305-2-ND	462.00	ABM8G-48.000MHZ-B4Y-T

ABM9 Series — 4.0 x 2.5 SMD RF Transceiver Crystals

Dim. in mm.

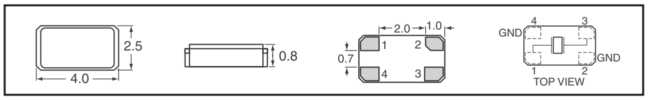

Specifications: • **Frequency Stability:** ±10ppm • **Frequency Tolerance:** ±10ppm @ 25°C • **Operating Temperature Range:** -40°C ~ 85°C • **Load Capacitance:** 10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
16.000	535-9693-1-ND	3.34	2.90	2.54	535-9693-2-ND	1246.00	ABM9-16.000MHZ-10-D-1U

ABM10 Series — 2.5 x 2.0 SMD Crystals

Dim. in mm.

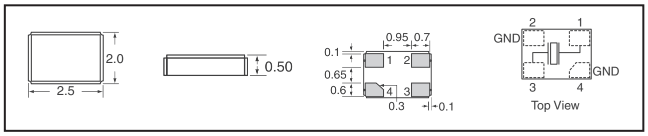

Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM10-xxxMHZ-E20-T	±20ppm	±20ppm	-20°C ~ 70°C	10.0pF
ABM10-xxxMHZ-8-7A15-T	±15ppm	±15ppm	-10°C ~ 60°C	8.0pF
ABM10-xxxMHZ-7A15-T	±15ppm	±15ppm	-10°C ~ 60°C	10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
ABM10-xxx-E20-T Series							
16.00000	535-9810-1-ND	2.44	2.12	1.86	535-9810-2-ND	910.00	ABM10-16.000MHZ-E20-T
16.36760	535-9811-1-ND	2.44	2.12	1.86	535-9811-2-ND	910.00	ABM10-16.3676MHZ-E20-T
16.38400	535-9812-1-ND	2.44	2.12	1.86	535-9812-2-ND	910.00	ABM10-16.384MHZ-E20-T
18.43200	535-9813-1-ND	2.44	2.12	1.86	535-9813-2-ND	910.00	ABM10-18.432MHZ-E20-T
19.20000	535-9814-1-ND	2.44	2.12	1.86	535-9814-2-ND	910.00	ABM10-19.200MHZ-E20-T
20.00000	535-9091-1-ND	2.44	2.12	1.86	535-9091-2-ND	910.00	ABM10-20.000MHZ-E20-T
22.11840	535-9092-1-ND	2.44	2.12	1.86	535-9092-2-ND	910.00	ABM10-22.1184MHZ-E20-T
24.00000	535-9093-1-ND	2.44	2.12	1.86	535-9093-2-ND	910.00	ABM10-24.000MHZ-E20-T
24.57600	535-9094-1-ND	2.44	2.12	1.86	535-9094-2-ND	910.00	ABM10-24.576MHZ-E20-T
25.00000	535-9095-1-ND	2.44	2.12	1.86	535-9095-2-ND	910.00	ABM10-25.000MHZ-E20-T
27.00000	535-9096-1-ND	2.44	2.12	1.86	535-9096-2-ND	910.00	ABM10-27.000MHZ-E20-T
30.00000	535-9097-1-ND	2.44	2.12	1.86	535-9097-2-ND	910.00	ABM10-30.000MHZ-E20-T
40.00000	535-9098-1-ND	1.79	1.53	1.30	535-9098-2-ND	845.00	ABM10-40.000MHZ-E20-T
48.00000	535-9099-1-ND	2.44	2.12	1.86	535-9099-2-ND	910.00	ABM10-48.000MHZ-E20-T
ABM10-xxxMHZ-8-7A15-T Series — Crystals for Wireless, Bluetooth and AV/OA							
24.00000	535-9622-1-ND	2.44	2.12	1.86	535-9622-2-ND	910.00	ABM10-24.000MHZ-8-7-A15-T
28.63636	535-9623-1-ND	2.44	2.12	1.86	535-9623-2-ND	910.00	ABM10-28.63636MHZ-8-7-A15-T
32.00000	535-9625-1-ND	2.44	2.12	1.86	535-9625-2-ND	910.00	ABM10-32.000MHZ-8-7-A15-T
40.00000	535-9627-1-ND	2.44	2.12	1.86	535-9627-2-ND	910.00	ABM10-40.000MHZ-8-7-A15-T
ABM10-xxxMHZ-7A15-T Series — Crystals for Wireless, Bluetooth and AV/OA							
26.00000	535-9624-1-ND	2.44	2.12	1.86	535-9624-2-ND	910.00	ABM10-26.000MHZ-7-A15-T
32.00000	535-9626-1-ND	2.44	2.12	1.86	535-9626-2-ND	910.00	ABM10-32.000MHZ-7-A15-T

ABM11 Series — 2.0 x 1.6 SMD Crystals

Dim. in mm.

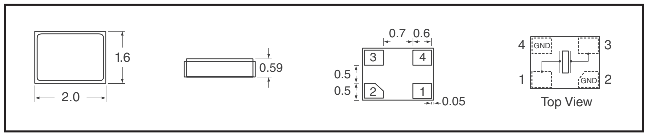

Specifications: • **Frequency Stability:** ±15ppm; -20°C ~ 70°C • **Frequency Tolerance:** ±15ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Load Capacitance:** 10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50			
20.000	535-10249-1-ND✔	2.55	2.21	1.94	535-10249-2-ND✔	952.00	ABM11-20.000MHZ-B7G-T
24.000	535-10250-1-ND✔	2.55	2.21	1.94	535-10250-2-ND✔	952.00	ABM11-24.000MHZ-B7G-T
25.000	535-10251-1-ND✔	2.55	2.21	1.94	535-10251-2-ND✔	952.00	ABM11-25.000MHZ-B7G-T
26.00000	535-9815-1-ND	2.55	2.21	1.94	535-9815-2-ND	952.00	ABM11-26.000MHZ-B7G-T
27.00000	535-9816-1-ND	2.55	2.21	1.94	535-9816-2-ND	952.00	ABM11-27.000MHZ-B7G-T
28.63636	535-9817-1-ND	2.55	2.21	1.94	535-9817-2-ND	952.00	ABM11-28.63636MHZ-B7G-T
30.00000	535-9818-1-ND	2.55	2.21	1.94	535-9818-2-ND	952.00	ABM11-30.000MHZ-B7G-T
32.00000	535-9819-1-ND	2.55	2.21	1.94	535-9819-2-ND	952.00	ABM11-32.000MHZ-B7G-T
36.00000	535-9820-1-ND	2.55	2.21	1.94	535-9820-2-ND	952.00	ABM11-36.000MHZ-B7G-T
38.40000	535-9821-1-ND	2.55	2.21	1.94	535-9821-2-ND	952.00	ABM11-38.400MHZ-B7G-T
40.00000	535-9822-1-ND	2.55	2.21	1.94	535-9822-2-ND	952.00	ABM11-40.000MHZ-B7G-T
44.00000	535-9823-1-ND	2.55	2.21	1.94	535-9823-2-ND	952.00	ABM11-44.000MHZ-B7G-T
48.00000	535-9824-1-ND	2.55	2.21	1.94	535-9824-2-ND	952.00	ABM11-48.000MHZ-B7G-T

✔ NEW!

NEW! ABM12 Series — 1.6 x 1.2 SMD Crystals

Dim. in mm.

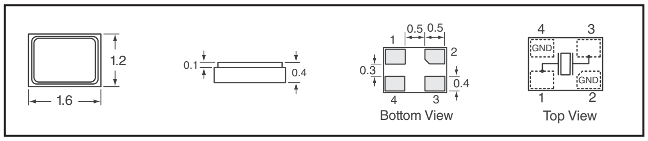

Specifications: • **Frequency Stability:** ±20ppm; -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Load Capacitance:** 8pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Abracon Part No.
		1	10	50			
26.000	535-10252-1-ND	2.93	2.54	2.23	535-10252-2-ND	1053.00/M	ABM12-26.000MHZ-B2X-T
30.000	535-10255-1-ND	2.93	2.54	2.23	535-10255-2-ND	1053.00/M	ABM12-30.000MHZ-B2X-T
32.000	535-10256-1-ND	2.93	2.54	2.23	535-10256-2-ND	1053.00/M	ABM12-32.000MHZ-B2X-T
36.000	535-10257-1-ND	2.93	2.54	2.23	535-10257-2-ND	1053.00/M	ABM12-36.000MHZ-B2X-T
44.000	535-10259-1-ND	2.93	2.54	2.23	535-10259-2-ND	1053.00/M	ABM12-44.000MHZ-B2X-T
48.000	535-10260-1-ND	2.93	2.54	2.23	535-10260-2-ND	1053.00/M	ABM12-48.000MHZ-B2X-T

(Continued)

ABMM Series — 7.0 x 5.0 SMD Crystals

Dim. in mm.

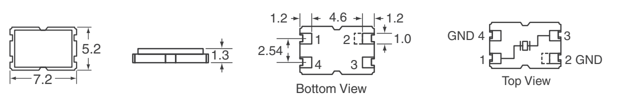

Specifications: • **Frequency Stability:** ±50ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
6.000	535-10156-1-ND✔	1.20	1.04	.92	535-10156-2-ND✔	448.00	ABMM-6.000MHZ-B2-T
7.37280	535-9825-1-ND	1.20	1.04	.92	535-9825-2-ND	448.00	ABMM-7.3728MHZ-B2-T
8.00000	535-9164-1-ND	1.20	1.04	.92	535-9164-2-ND	448.00	ABMM-8.000MHZ-B2-T
10.00000	535-9150-1-ND	1.20	1.04	.92	535-9150-2-ND	448.00	ABMM-10.000MHZ-B2-T
11.05920	535-9151-1-ND	1.20	1.04	.92	535-9151-2-ND	448.00	ABMM-11.0592MHZ-B2-T
12.00000	535-9152-1-ND	1.20	1.04	.92	535-9152-2-ND	448.00	ABMM-12.000MHZ-B2-T
14.31818	535-9153-1-ND	1.20	1.04	.92	535-9153-2-ND	448.00	ABMM-14.31818MHZ-B2-T
14.74560	535-9154-1-ND	1.20	1.04	.92	535-9154-2-ND	448.00	ABMM-14.7456MHZ-B2-T
16.00000	535-9155-1-ND	1.20	1.04	.92	535-9155-2-ND	448.00	ABMM-16.000MHZ-B2-T
16.93440	535-9156-1-ND	1.20	1.04	.92	535-9156-2-ND	448.00	ABMM-16.9344MHZ-B2-T
19.66080	535-9157-1-ND	.88	.76	.64	535-9157-2-ND	416.00	ABMM-19.6608MHZ-B2-T
20.00000	535-9158-1-ND	1.20	1.04	.92	535-9158-2-ND	448.00	ABMM-20.000MHZ-B2-T
24.00000	535-9159-1-ND	1.20	1.04	.92	535-9159-2-ND	448.00	ABMM-24.000MHZ-B2-T
24.57600	535-9160-1-ND	1.20	1.04	.92	535-9160-2-ND	448.00	ABMM-24.576MHZ-B2-T
25.00000	535-9161-1-ND	1.20	1.04	.92	535-9161-2-ND	448.00	ABMM-25.000MHZ-B2-T
27.00000	535-9162-1-ND	1.20	1.04	.92	535-9162-2-ND	448.00	ABMM-27.000MHZ-B2-T
32.00000	535-9163-1-ND	1.20	1.04	.92	535-9163-2-ND	448.00	ABMM-32.000MHZ-B2F-T

✔ ***NEW!***

ABMM2 Series — 6.0 x 3.6 SMD Crystals

Dim. in mm.

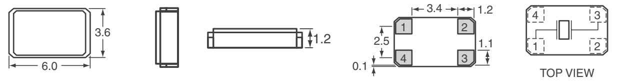

Specifications: • **Frequency Stability:** ±20ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
7.3728	535-10157-1-ND✔	1.28	1.11	.97	535-10157-2-ND✔	476.00	ABMM2-7.3728MHZ-E2-T
8.00000	535-9628-1-ND	1.28	1.11	.97	535-9628-2-ND	476.00	ABMM2-8.000MHZ-E2-T
10.00000	535-9629-1-ND	1.28	1.11	.97	535-9629-2-ND	476.00	ABMM2-10.000MHZ-E2-T
11.05920	535-9630-1-ND	1.28	1.11	.97	535-9630-2-ND	476.00	ABMM2-11.0592MHZ-E2-T
12.00000	535-9631-1-ND	1.28	1.11	.97	535-9631-2-ND	476.00	ABMM2-12.000MHZ-E2-T
14.31818	535-9632-1-ND	1.28	1.11	.97	535-9632-2-ND	476.00	ABMM2-14.31818MHZ-E2-T
14.74560	535-9633-1-ND	1.28	1.11	.97	535-9633-2-ND	476.00	ABMM2-14.7456MHZ-E2-T
16.00000	535-9634-1-ND	1.28	1.11	.97	535-9634-2-ND	476.00	ABMM2-16.000MHZ-E2-T
16.93440	535-9635-1-ND	1.28	1.11	.97	535-9635-2-ND	476.00	ABMM2-16.9344MHZ-E2-T
19.66080	535-9636-1-ND	1.28	1.11	.97	535-9636-2-ND	476.00	ABMM2-19.6608MHZ-E2-T
20.00000	535-9637-1-ND	1.28	1.11	.97	535-9637-2-ND	476.00	ABMM2-20.000MHZ-E2-T
24.00000	535-9638-1-ND	1.28	1.11	.97	535-9638-2-ND	476.00	ABMM2-24.000MHZ-E2-T
24.57600	535-9639-1-ND	1.28	1.11	.97	535-9639-2-ND	476.00	ABMM2-24.576MHZ-E2-T
25.00000	535-9640-1-ND	1.28	1.11	.97	535-9640-2-ND	476.00	ABMM2-25.000MHZ-E2-T
27.00000	535-9641-1-ND	1.28	1.11	.97	535-9641-2-ND	476.00	ABMM2-27.000MHZ-E2-T
32.00000	535-9642-1-ND	1.28	1.11	.97	535-9642-2-ND	476.00	ABMM2-32.000MHZ-E2F-T
32.76800	535-9643-1-ND	1.28	1.11	.97	535-9643-2-ND	476.00	ABMM2-32.768MHZ-E2F-T
40.00000	535-9644-1-ND	1.69	1.47	1.29	535-9644-2-ND	630.00	ABMM2-40.000MHZ-E2F-T
48.00000	535-9645-1-ND	1.69	1.47	1.29	535-9645-2-ND	630.00	ABMM2-48.000MHZ-E2F-T
50.00000	535-9646-1-ND	1.69	1.47	1.29	535-9646-2-ND	630.00	ABMM2-50.000MHZ-E2F-T
64.00000	535-9648-1-ND	1.69	1.47	1.29	535-9648-2-ND	630.00	ABMM2-64.000MHZ-E2-T

✔ ***NEW!***

32.768kHz Crystals and Oscillators

Dim. in mm.

Fig.	Load Capacitance	Operating Temperature	Frequency Tolerance	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Abracon Part No.
Surface Mount Tuning Fork Crystals										
1	9.0pF	-40°C ~ 85°C	±20ppm	535-10246-1-ND ***NEW!***	2.55	2.21	1.94	3,000	918.00/M	ABS06-32.768KHZ-9-T
	9.0pF	-40°C ~ 85°C	±10ppm	535-10247-1-ND ***NEW!***	2.81	2.44	2.14	3,000	1012.50/M	ABS06-32.768KHZ-9-1-T
	12.5pF	-40°C ~ 85°C	±10ppm	535-10248-1-ND ***NEW!***	2.81	2.44	2.14	3,000	1012.50/M	ABS06-32.768KHZ-1-T
	12.5pF	-40°C ~ 85°C	±20ppm	535-10104-1-ND	2.55	2.21	1.94	3,000	918.00/M	ABS06-32.768KHZ-T
	12.5pF	-40°C ~ 85°C	±20ppm	535-9542-1-ND	1.58	1.37	1.20	3,000	567.00/M	ABS07-32.768KHZ-T
	12.5pF	-40°C ~ 85°C	±10ppm	535-9808-1-ND	1.76	1.53	1.34	3,000	634.50/M	ABS07-32.768KHZ-1-T
	9.0pF	-40°C ~ 85°C	±20ppm	535-9544-1-ND	1.58	1.37	1.20	3,000	567.00/M	ABS07-32.768KHZ-9-T
	7.0pF	-40°C ~ 85°C	±20ppm	535-9543-1-ND	1.58	1.37	1.20	3,000	567.00/M	ABS07-32.768KHZ-7-T
	12.5pF	-40°C ~ 85°C	±20ppm	535-9539-1-ND	1.31	1.14	1.00	3,000	472.50/M	ABS09-32.768KHZ-T
	12.5pF	-40°C ~ 85°C	±10ppm	535-9807-1-ND	1.50	1.30	1.14	3,000	540.00/M	ABS09-32.768KHZ-1-T
	9.0pF	-40°C ~ 85°C	±20ppm	535-9541-1-ND	1.31	1.14	1.00	3,000	472.50/M	ABS09-32.768KHZ-9-T
	7.0pF	-40°C ~ 85°C	±20ppm	535-9540-1-ND	1.31	1.14	1.00	3,000	472.50/M	ABS09-32.768KHZ-7-T
	12.5pF	-40°C ~ 85°C	±20ppm	535-9536-1-ND	1.13	.98	.86	3,000	405.00/M	ABS10-32.768KHZ-T
	12.5pF	-40°C ~ 85°C	±10ppm	535-9806-1-ND	1.31	1.14	1.00	3,000	472.50/M	ABS10-32.768KHZ-1-T
	9.0pF	-40°C ~ 85°C	±20ppm	535-9538-1-ND	1.13	.98	.86	3,000	405.00/M	ABS10-32.768KHZ-9-T
	7.0pF	-40°C ~ 85°C	±20ppm	535-9537-1-ND	1.13	.98	.86	3,000	405.00/M	ABS10-32.768KHZ-7-T
2	6.0pF	-40°C ~ 85°C	±20ppm	535-10240-1-ND ***NEW!***	.71	.62	.55	2,000	266.00/M	ABS25-32.768KHZ-6-T
	6.0pF	-40°C ~ 85°C	±10ppm	535-10241-1-ND ***NEW!***	1.01	.88	.77	3,000	364.50/M	ABS25-32.768KHZ-6-1-T
	12.5pF	-40°C ~ 85°C	±20ppm	535-9166-1-ND	.71	.62	.55	3,000	256.50/M	ABS25-32.768KHZ-T
	12.5pF	-40°C ~ 85°C	±10ppm	535-9809-1-ND	1.01	.88	.77	3,000	364.50/M	ABS25-32.768KHZ-1-T
3	12.5pF	-40°C ~ 85°C	±20ppm	535-9165-1-ND	1.09	.95	.83	3,000	391.50/M	ABS13-32.768KHZ-T
4	12.5pF	-40°C ~ 85°C	±20ppm	535-9033-1-ND	.64	.56	.49	2,000	238.00/M	AB26TRB-32.768KHZ-T
Through Hole Tuning Fork Crystals										
5	12.5pF	-20°C ~ 70°C	±20ppm	535-9031-ND‡	.74	.63	.53	—	—	AB15T-32.768KHZ
	12.5pF	-10°C ~ 60°C	±20ppm	535-9032-ND‡	.25	.21	.18	—	—	AB26T-32.768KHZ
	12.5pF	-10°C ~ 60°C	±20ppm	535-9034-ND‡	.25	.21	.18	—	—	AB38T-32.768KHZ

‡ Bulk Pricing § For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	Frequency (KHz)	Load Capacitance	Operating Temperature	Frequency Tolerance	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 3,000	Abracon Part No.
NEW! Surface Mount KHz Crystals NEW!											
2	32.000	12.5pF	-45°C ~ 85°C	±20ppm	535-10242-1-ND	1.69	1.47	1.29	535-10242-2-ND	607.50/M	ABS25-32.000KHZ-T
	38.000	12.5pF	-45°C ~ 85°C	±20ppm	535-10243-1-ND	1.69	1.47	1.29	535-10243-2-ND	607.50/M	ABS25-38.000KHZ-T
	60.000	12.5pF	-45°C ~ 85°C	±20ppm	535-10244-1-ND	1.69	1.47	1.29	535-10244-2-ND	607.50/M	ABS25-60.000KHZ-T
	100.000	12.5pF	-45°C ~ 85°C	±20ppm	535-10245-1-ND	1.69	1.47	1.29	535-10245-2-ND	607.50/M	ABS25-100.000KHZ-T

Fig.	Supply Voltage	Operating Temperature	Frequency Stability	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel§ Pricing 1,000	Abracon Part No.
Surface Mount Oscillators									
6	1.8V	-40°C ~ 85°C	±25ppm	535-10003-1-ND	5.06	4.39	3.85	1890.00	ASDK2-32.768KHZ-LRT
	2.5V	-40°C ~ 85°C	±25ppm	535-10001-1-ND	5.06	4.39	3.85	1890.00	ASDK1-32.768KHZ-LRT
	3.3V	-40°C ~ 85°C	±25ppm	535-9999-1-ND	5.06	4.39	3.85	1890.00	ASDK-32.768KHZ-LRT
	1.8V	-40°C ~ 85°C	±25ppm	535-10002-1-ND	4.58	3.97	3.48	1708.00	ASEK2-32.768KHZ-LRT
	2.5V	-40°C ~ 85°C	±25ppm	535-10000-1-ND	4.58	3.97	3.48	1708.00	ASEK1-32.768KHZ-LRT
	3.3V	-40°C ~ 85°C	±25ppm	535-9998-1-ND	4.58	3.97	3.48	1708.00	ASEK-32.768KHZ-LRT
	3.3V	-40°C ~ 85°C	-140 ~ +10ppm	535-10309-1-ND ***NEW!***	4.88	4.23	3.71	1820.00	ASHEK-32.768KHZ-LT
	5V	-40 °C ~ 85°C	-140 ~ +10ppm	535-10308-1-ND ***NEW!***	4.88	4.23	3.71	1820.00	ASHEK2-32.768KHZ-LT
	2.8	-40 °C ~ 85°C	-140 ~ +10ppm	535-10311-1-ND ***NEW!***	4.88	4.23	3.71	1820.00	ASHEK3-32.768KHZ-LT
	1.8V	-40 °C ~ 85°C	-140 ~ +10ppm	535-10310-1-ND ***NEW!***	4.88	4.23	3.71	1820.00	ASHEK4-32.768KHZ-LT
	1.5V	-40 °C ~ 85°C	-140 ~ +10ppm	535-10312-1-ND ***NEW!***	4.88	4.23	3.71	1820.00	ASHEK5-32.768KHZ-LT
	3.3V	-40°C ~ 85°C	±20ppm	535-9546-1-ND	4.69	4.07	3.57	1750.00	ASFLK-32.768KHZ-LJT
	3.3V	-40°C ~ 85°C	±20ppm	535-9545-1-ND	4.13	3.58	3.14	1540.00	ASVK-32.768KHZ-LJT

§ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

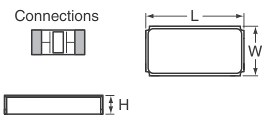

Series	Dimensions (mm) L	W	H
ABS06	2.0	1.2	0.6
ABS07	3.2	1.5	0.9
ABS09	4.1	1.5	0.9
ABS10	4.9	1.8	1.0

Fig. 2

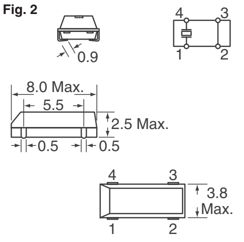

Fig. 3

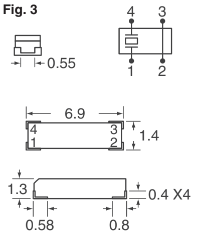

Fig. 4

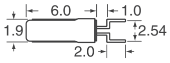

Fig. 5

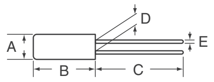

Series	Dimensions (mm) A	B	C	D	E
AB15T	ø1.4	5.1 (Max.)	4.3 (Typ.)	0.45	ø0.2
AB26T	ø2.1	6.2 (Max.)	9.0 (Min.)	0.80	ø0.26
AB38T	ø3.2	8.3 (Max.)	9.0 (Min.)	1.10	ø0.35

Fig. 6

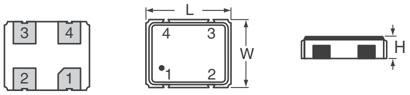

Pin	Function
1	Tri-state
2	GND
3	Output
4	Vdd

Series	Dimensions (mm) L	W	H
ASDK	2.5	2.0	0.95
ASEK	3.2	2.5	1.20
ASHEK	3.2	2.5	0.90
ASFLK	5.0	3.2	1.30
ASVK	7.0	5.0	1.60

Oscillators

ACH, ACHL and ACO Series Oscillators

Specifications: • **Frequency Stability:** ±30ppm; -20°C ~ 70°C • **Operating Temperature:** -20°C ~ 70°C
Features: • HCMOS and TTL compatible

Dim. in mm.

Fig. 1

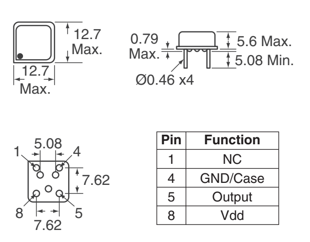

Pin	Function
1	NC
4	GND/Case
5	Output
8	Vdd

Fig. 2

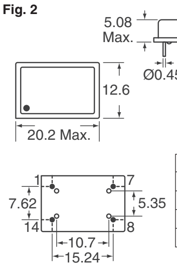

Pin	Function
1	NC
7	GND/Case
8	Output
14	Vdd

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
ACH Series Half Size Oscillators — 5.0V							
1	14.31818	535-9170-5-ND	2.17	1.86	1.24	1.03	ACH-14.31818MHZ-EK
ACHL Series Half Size Oscillators — 3.3V							
1	32.00000	535-9195-5-ND	2.17	1.86	1.24	1.03	ACHL-32.000MHZ-EK
ACOL Series Full Size Oscillators — 3.3V							
2	25.00000	535-9229-5-ND	2.17	1.86	1.24	1.03	ACOL-25.000MHZ-EK
	50.00000	535-9237-5-ND	2.17	1.86	1.24	1.03	ACOL-50.000MHZ-EK

ASD1 and ASD3 Series — 2.5 x 2.0 SMD Oscillators

Specifications:
• **Frequency Stability:** ±50ppm • **Operating Temperature:** -20°C ~ 70°C
Note: *For nonstandard frequencies, please reference AP2S Series Programmable Oscillators.*

Dim. in mm.

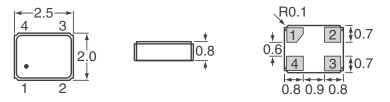

Pin	Function
1	Enable/Disable (STBY)†
2	GND/Case
3	Output
4	Vdd

† H or Open: Oscillation
L: Oscillation Stops/Hi Impedance

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
ASD1 Series — 3.0V								
1.54400	535-9579-1-ND	6.19	5.37	4.71	3.72	535-9579-2-ND	2310.00	ASD1-1.544MHZ-ECT
3.68640	535-9580-1-ND	6.19	5.37	4.71	3.72	535-9580-2-ND	2310.00	ASD1-3.6864MHZ-ECT
4.00000	535-9581-1-ND	6.19	5.37	4.71	3.72	535-9581-2-ND	2310.00	ASD1-4.000MHZ-ECT
7.37280	535-9582-1-ND	6.19	5.37	4.71	3.72	535-9582-2-ND	2310.00	ASD1-7.3728MHZ-ECT
8.00000	535-9583-1-ND	6.19	5.37	4.71	3.72	535-9583-2-ND	2310.00	ASD1-8.000MHZ-ECT
10.00000	535-9584-1-ND	4.54	3.88	3.30	3.06	535-9584-2-ND	2145.00	ASD1-10.000MHZ-ECT
11.05920	535-9585-1-ND	4.54	3.88	3.30	3.06	535-9585-2-ND	2145.00	ASD1-11.0592MHZ-ECT
12.00000	535-9586-1-ND	6.19	5.37	4.71	3.72	535-9586-2-ND	2310.00	ASD1-12.000MHZ-ECT
14.31818	535-9587-1-ND	6.19	5.37	4.71	3.72	535-9587-2-ND	2310.00	ASD1-14.31818MHZ-ECT
14.74560	535-9588-1-ND	4.54	3.88	3.30	3.06	535-9588-2-ND	2145.00	ASD1-14.7456MHZ-ECT
18.43200	535-9589-1-ND	4.54	3.88	3.30	3.06	535-9589-2-ND	2145.00	ASD1-18.432MHZ-ECT
20.00000	535-9590-1-ND	6.19	5.37	4.71	3.72	535-9590-2-ND	2310.00	ASD1-20.000MHZ-ECT
24.00000	535-9591-1-ND	4.54	3.88	3.30	3.06	535-9591-2-ND	2145.00	ASD1-24.000MHZ-ECT
24.57600	535-9592-1-ND	4.54	3.88	3.30	3.06	535-9592-2-ND	2145.00	ASD1-24.576MHZ-ECT
25.00000	535-9593-1-ND	4.54	3.88	3.30	3.06	535-9593-2-ND	2145.00	ASD1-25.000MHZ-ECT
27.00000	535-9594-1-ND	6.19	5.37	4.71	3.72	535-9594-2-ND	2310.00	ASD1-27.000MHZ-ECT
30.00000	535-9595-1-ND	4.54	3.88	3.30	3.06	—	—	ASD1-30.000MHZ-ECT
32.00000	535-9596-1-ND	4.54	3.88	3.30	3.06	535-9596-2-ND	2145.00	ASD1-32.000MHZ-ECT
33.00000	535-9597-1-ND	6.19	5.37	4.71	3.72	535-9597-2-ND	2310.00	ASD1-33.000MHZ-ECT
33.33300	535-9598-1-ND	4.54	3.88	3.30	3.06	535-9598-2-ND	2145.00	ASD1-33.333MHZ-ECT
40.00000	535-9599-1-ND	4.54	3.88	3.30	3.06	535-9599-2-ND	2145.00	ASD1-40.000MHZ-ECT
48.00000	535-9600-1-ND	4.54	3.88	3.30	3.06	535-9600-2-ND	2145.00	ASD1-48.000MHZ-ECT
50.00000	535-9601-1-ND	6.19	5.37	4.71	3.72	535-9601-2-ND	2310.00	ASD1-50.000MHZ-ECT
60.00000	535-9602-1-ND	4.54	3.88	3.30	3.06	535-9602-2-ND	2145.00	ASD1-60.000MHZ-ECT
ASD3 Series — 1.8V								
14.31818	535-9603-1-ND	6.19	5.37	4.71	3.72	535-9603-2-ND	2310.00	ASD3-14.31818MHZ-ECT
20.00000	535-9604-1-ND	4.54	3.88	3.30	3.06	535-9604-2-ND	2145.00	ASD3-20.000MHZ-ECT
24.00000	535-9605-1-ND	4.54	3.88	3.30	3.06	535-9605-2-ND	2145.00	ASD3-24.000MHZ-ECT
24.57600	535-9606-1-ND	6.19	5.37	4.71	3.72	535-9606-2-ND	2310.00	ASD3-24.576MHZ-ECT
25.00000	535-9607-1-ND	6.19	5.37	4.71	3.72	535-9607-2-ND	2310.00	ASD3-25.000MHZ-ECT
27.00000	535-9608-1-ND	6.19	5.37	4.71	3.72	535-9608-2-ND	2310.00	ASD3-27.000MHZ-ECT
29.49120	535-9609-1-ND	4.54	3.88	3.30	3.06	535-9609-2-ND	2145.00	ASD3-29.4912MHZ-ECT
40.00000	535-9610-1-ND	4.54	3.88	3.30	3.06	535-9610-2-ND	2145.00	ASD3-40.000MHZ-ECT
50.00000	535-9611-1-ND	4.54	3.88	3.30	3.06	535-9611-2-ND	2145.00	ASD3-50.000MHZ-ECT

ASE, ASE2 and ASE3 Series — 3.2 x 2.5 SMD Oscillators

Dim. in mm.

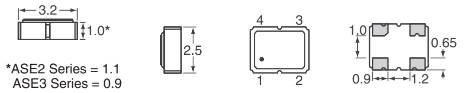

*ASE2 Series = 1.1
ASE3 Series = 0.9

Pin	Function
1	Tri-state
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
ASE-xxxMHZ-LC-T Series — 3.3V, ±50ppm, -40°C ~ 85°C								
1.84320	535-9555-1-ND	3.71	3.22	2.83	2.23	535-9555-2-ND	1386.00	ASE-1.8432MHZ-LC-T
4.00000	535-9556-1-ND	3.71	3.22	2.83	2.23	535-9556-2-ND	1386.00	ASE-4.000MHZ-LC-T
7.37280	535-9557-1-ND	3.71	3.22	2.83	2.23	535-9557-2-ND	1386.00	ASE-7.3728MHZ-LC-T
8.00000	535-9558-1-ND	3.71	3.22	2.83	2.23	535-9558-2-ND	1386.00	ASE-8.000MHZ-LC-T
10.00000	535-9559-1-ND	3.71	3.22	2.83	2.23	535-9559-2-ND	1386.00	ASE-10.000MHZ-LC-T
11.05920	535-9560-1-ND	3.71	3.22	2.83	2.23	535-9560-2-ND	1386.00	ASE-11.0592MHZ-LC-T
12.00000	535-9561-1-ND	3.71	3.22	2.83	2.23	535-9561-2-ND	1386.00	ASE-12.000MHZ-LC-T
14.31818	535-9562-1-ND	3.71	3.22	2.83	2.23	535-9562-2-ND	1386.00	ASE-14.31818MHZ-LC-T
14.74560	535-9563-1-ND	3.71	3.22	2.83	2.23	535-9563-2-ND	1386.00	ASE-14.7456MHZ-LC-T
18.43200	535-9564-1-ND	3.71	3.22	2.83	2.23	535-9564-2-ND	1386.00	ASE-18.432MHZ-LC-T
20.00000	535-9565-1-ND	3.71	3.22	2.83	2.23	535-9565-2-ND	1386.00	ASE-20.000MHZ-LC-T
24.00000	535-9566-1-ND	3.71	3.22	2.83	2.23	535-9566-2-ND	1386.00	ASE-24.000MHZ-LC-T
24.57600	535-9567-1-ND	3.71	3.22	2.83	2.23	535-9567-2-ND	1386.00	ASE-24.576MHZ-LC-T
25.00000	535-9568-1-ND	3.71	3.22	2.83	2.23	535-9568-2-ND	1386.00	ASE-25.000MHZ-LC-T
27.00000	535-9569-1-ND	3.71	3.22	2.83	2.23	535-9569-2-ND	1386.00	ASE-27.000MHZ-LC-T
29.49120	535-9570-1-ND	3.71	3.22	2.83	2.23	535-9570-2-ND	1386.00	ASE-29.4912MHZ-LC-T
30.00000	535-9571-1-ND	3.71	3.22	2.83	2.23	535-9571-2-ND	1386.00	ASE-30.000MHZ-LC-T
32.00000	535-9572-1-ND	2.72	2.33	1.98	1.84	535-9572-2-ND	1287.00	ASE-32.000MHZ-LC-T
33.00000	535-9573-1-ND	3.71	3.22	2.83	2.23	535-9573-2-ND	1386.00	ASE-33.000MHZ-LC-T
33.33300	535-9574-1-ND	3.71	3.22	2.83	2.23	535-9574-2-ND	1386.00	ASE-33.333MHZ-LC-T
44.00000	535-9575-1-ND	3.71	3.22	2.83	2.23	535-9575-2-ND	1386.00	ASE-44.000MHZ-LC-T
48.00000	535-9576-1-ND	3.71	3.22	2.83	2.23	535-9576-2-ND	1386.00	ASE-48.000MHZ-LC-T
50.00000	535-9577-1-ND	3.71	3.22	2.83	2.23	535-9577-2-ND	1386.00	ASE-50.000MHZ-LC-T
60.00000	535-9578-1-ND	3.71	3.22	2.83	2.23	535-9578-2-ND	1386.00	ASE-60.000MHZ-LC-T
ASE-xxxMHZ-E-T Series — 3.3V, ±100ppm, -20°C ~ 70°C								
12.00000	535-10313-1-ND✔	2.40	2.08	1.83	1.44	535-10313-2-ND✔	896.00	ASE-12.000MHZ-ET
12.50000	535-9981-1-ND	2.40	2.08	1.83	1.44	535-9981-2-ND	896.00	ASE-12.500MHZ-ET
13.50000	535-9982-1-ND	2.40	2.08	1.83	1.44	535-9982-2-ND	896.00	ASE-13.500MHZ-ET
20.00000	535-9983-1-ND	2.40	2.08	1.83	1.44	535-9983-2-ND	896.00	ASE-20.000MHZ-ET
22.00000	535-9984-1-ND	2.40	2.08	1.83	1.44	535-9984-2-ND	896.00	ASE-22.000MHZ-ET
24.00000	535-9985-1-ND	2.40	2.08	1.83	1.44	535-9985-2-ND	896.00	ASE-24.000MHZ-ET
24.57600	535-9986-1-ND	2.40	2.08	1.83	1.44	535-9986-2-ND	896.00	ASE-24.576MHZ-ET
25.00000	535-9987-1-ND	2.40	2.08	1.83	1.44	535-9987-2-ND	896.00	ASE-25.000MHZ-ET
27.00000	535-9988-1-ND	2.40	2.08	1.83	1.44	535-9988-2-ND	896.00	ASE-27.000MHZ-ET
30.00000	535-9989-1-ND	2.40	2.08	1.83	1.44	535-9989-2-ND	896.00	ASE-30.000MHZ-ET
32.00000	535-9990-1-ND	2.40	2.08	1.83	1.44	535-9990-2-ND	896.00	ASE-32.000MHZ-ET
33.00000	535-9991-1-ND	2.40	2.08	1.83	1.44	535-9991-2-ND	896.00	ASE-33.000MHZ-ET
33.33300	535-9992-1-ND	2.40	2.08	1.83	1.44	535-9992-2-ND	896.00	ASE-33.333MHZ-ET
40.00000	535-9993-1-ND	2.40	2.08	1.83	1.44	535-9993-2-ND	896.00	ASE-40.000MHZ-ET
44.00000	535-9994-1-ND	2.40	2.08	1.83	1.44	535-9994-2-ND	896.00	ASE-44.000MHZ-ET
48.00000	535-9995-1-ND	2.40	2.08	1.83	1.44	535-9995-2-ND	896.00	ASE-48.000MHZ-ET
50.00000	535-9996-1-ND	2.40	2.08	1.83	1.44	535-9996-2-ND	896.00	ASE-50.000MHZ-ET
60.00000	535-9997-1-ND	2.40	2.08	1.83	1.44	535-9997-2-ND	896.00	ASE-60.000MHZ-ET
ASE2-xxxMHZ-E-T Series — 2.5V, ±100ppm, -20°C ~ 70°C								
12.50000	535-9964-1-ND	2.40	2.08	1.83	1.44	535-9964-2-ND	896.00	ASE2-12.500MHZ-ET
13.50000	535-9965-1-ND	2.40	2.08	1.83	1.44	535-9965-2-ND	896.00	ASE2-13.500MHZ-ET
20.00000	535-9966-1-ND	2.40	2.08	1.83	1.44	535-9966-2-ND	896.00	ASE2-20.000MHZ-ET
22.00000	535-9967-1-ND	2.40	2.08	1.83	1.44	535-9967-2-ND	896.00	ASE2-22.000MHZ-ET
24.00000	535-9968-1-ND	2.40	2.08	1.83	1.44	535-9968-2-ND	896.00	ASE2-24.000MHZ-ET
24.57600	535-9969-1-ND	2.40	2.08	1.83	1.44	535-9969-2-ND	896.00	ASE2-24.576MHZ-ET
25.00000	535-9970-1-ND	2.40	2.08	1.83	1.44	535-9970-2-ND	896.00	ASE2-25.000MHZ-ET
27.00000	535-9971-1-ND	2.40	2.08	1.83	1.44	535-9971-2-ND	896.00	ASE2-27.000MHZ-ET
30.00000	535-9972-1-ND	2.40	2.08	1.83	1.44	535-9972-2-ND	896.00	ASE2-30.000MHZ-ET
32.00000	535-9973-1-ND	2.40	2.08	1.83	1.44	535-9973-2-ND	896.00	ASE2-32.000MHZ-ET
33.00000	535-9974-1-ND	2.40	2.08	1.83	1.44	535-9974-2-ND	896.00	ASE2-33.000MHZ-ET
33.33300	535-9975-1-ND	2.40	2.08	1.83	1.44	535-9975-2-ND	896.00	ASE2-33.333MHZ-ET
40.00000	535-9976-1-ND	2.40	2.08	1.83	1.44	535-9976-2-ND	896.00	ASE2-40.000MHZ-ET
44.00000	535-9977-1-ND	2.40	2.08	1.83	1.44	535-9977-2-ND	896.00	ASE2-44.000MHZ-ET
48.00000	535-9978-1-ND	2.40	2.08	1.83	1.44	535-9978-2-ND	896.00	ASE2-48.000MHZ-ET
50.00000	535-9979-1-ND	2.40	2.08	1.83	1.44	535-9979-2-ND	896.00	ASE2-50.000MHZ-ET
60.00000	535-9980-1-ND	2.40	2.08	1.83	1.44	535-9980-2-ND	896.00	ASE2-60.000MHZ-ET
ASE3-xxxMHZ-K-T Series — 1.8V, ±30ppm, -10°C ~ 70°C								
14.31818	535-9547-1-ND	3.71	3.22	2.83	2.23	535-9547-2-ND	1386.00	ASE3-14.31818MHZ-KT
20.00000	535-9548-1-ND	3.71	3.22	2.83	2.23	535-9548-2-ND	1386.00	ASE3-20.000MHZ-KT
24.57600	535-9549-1-ND	2.72	2.33	1.98	1.84	535-9549-2-ND	1287.00	ASE3-24.576MHZ-KT
25.00000	535-9550-1-ND	3.71	3.22	2.83	2.23	535-9550-2-ND	1386.00	ASE3-25.000MHZ-KT
27.00000	535-9551-1-ND	3.71	3.22	2.83	2.23	535-9551-2-ND	1386.00	ASE3-27.000MHZ-KT
29.49120	535-9552-1-ND	2.72	2.33	1.98	1.84	535-9552-2-ND	1287.00	ASE3-29.4912MHZ-KT
40.00000	535-9553-1-ND	2.72	2.33	1.98	1.84	535-9553-2-ND	1287.00	ASE3-40.000MHZ-KT
50.00000	535-9554-1-ND	3.71	3.22	2.83	2.23	535-9554-2-ND	1386.00	ASE3-50.000MHZ-KT

✔ NEW!

(Continued)

ASFL1 Series — 5.0 x 3.2 SMD Oscillators

Specifications: • **Frequency Stability: EC:** ±50ppm; -20°C ~ 70°C; **EK:** ±30ppm; -20°C ~ 70°C • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ± 10% **Features:** • Seam sealed package

Dim. in mm.

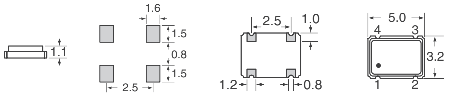

Pin	Function
1	Tri State
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
1.84320	300-8237-1-ND	2.72	2.33	1.98	1.84	300-8237-2-ND	1287.00	ASFL1-1.8432MHZ-EC-T
1.84320	535-9258-1-ND	3.71	3.22	2.83	2.23	535-9258-2-ND	1386.00	ASFL1-1.8432MHZ-EK-T
3.68640	535-9268-1-ND	3.71	3.22	2.83	2.23	535-9268-2-ND	1386.00	ASFL1-3.6864MHZ-EK-T
4.00000	300-8239-1-ND	3.71	3.22	2.83	2.23	300-8239-2-ND	1386.00	ASFL1-4.000MHZ-EC-T
4.00000	535-9271-1-ND	3.71	3.22	2.83	2.23	535-9271-2-ND	1386.00	ASFL1-4.000MHZ-EK-T
7.37280	300-8240-1-ND	3.71	3.22	2.83	2.23	300-8240-2-ND	1386.00	ASFL1-7.3728MHZ-EC-T
7.37280	535-9273-1-ND	3.71	3.22	2.83	2.23	535-9273-2-ND	1386.00	ASFL1-7.3728MHZ-EK-T
8.00000	300-8241-1-ND	3.71	3.22	2.83	2.23	300-8241-2-ND	1386.00	ASFL1-8.000MHZ-EC-T
8.00000	535-9274-1-ND	3.71	3.22	2.83	2.23	535-9274-2-ND	1386.00	ASFL1-8.000MHZ-EK-T
10.00000	300-8242-1-ND	2.72	2.33	1.98	1.84	300-8242-2-ND	1287.00	ASFL1-10.000MHZ-EC-T
10.00000	535-9251-1-ND	3.71	3.22	2.83	2.23	535-9251-2-ND	1386.00	ASFL1-10.000MHZ-EK-T
11.05920	300-8243-1-ND	2.72	2.33	1.98	1.84	300-8243-2-ND	1287.00	ASFL1-11.0592MHZ-EC-T
11.05920	535-9252-1-ND	3.71	3.22	2.83	2.23	535-9252-2-ND	1386.00	ASFL1-11.0592MHZ-EK-T
12.00000	300-8244-1-ND	3.71	3.22	2.83	2.23	300-8244-2-ND	1386.00	ASFL1-12.000MHZ-EC-T
12.00000	535-9253-1-ND	3.71	3.22	2.83	2.23	535-9253-2-ND	1386.00	ASFL1-12.000MHZ-EK-T
12.28800	300-8245-1-ND	3.71	3.22	2.83	2.23	300-8245-2-ND	1386.00	ASFL1-12.288MHZ-EC-T
14.31818	300-8246-1-ND	2.72	2.33	1.98	1.84	300-8246-2-ND	1287.00	ASFL1-14.31818MHZ-EC-T
14.31818	535-9254-1-ND	3.71	3.22	2.83	2.23	535-9254-2-ND	1386.00	ASFL1-14.31818MHZ-EK-T
14.74560	300-8247-1-ND	3.71	3.22	2.83	2.23	300-8247-2-ND	1386.00	ASFL1-14.7456MHZ-EC-T
14.74560	535-9255-1-ND	3.71	3.22	2.83	2.23	535-9255-2-ND	1386.00	ASFL1-14.7456MHZ-EK-T
16.00000	300-8248-1-ND	2.72	2.33	1.98	1.84	300-8248-2-ND	1287.00	ASFL1-16.000MHZ-EC-T
16.00000	535-9256-1-ND	3.71	3.22	2.83	2.23	535-9256-2-ND	1386.00	ASFL1-16.000MHZ-EK-T
16.38400	300-8249-1-ND	3.71	3.22	2.83	2.23	300-8249-2-ND	1386.00	ASFL1-16.384MHZ-EC-T
18.43200	300-8250-1-ND	3.71	3.22	2.83	2.23	300-8250-2-ND	1386.00	ASFL1-18.432MHZ-EC-T
18.43200	535-9257-1-ND	3.71	3.22	2.83	2.23	535-9257-2-ND	1386.00	ASFL1-18.432MHZ-EK-T
20.00000	300-8251-1-ND	3.71	3.22	2.83	2.23	300-8251-2-ND	1386.00	ASFL1-20.000MHZ-EC-T
20.00000	535-9259-1-ND	3.71	3.22	2.83	2.23	535-9259-2-ND	1386.00	ASFL1-20.000MHZ-EK-T
24.00000	300-8252-1-ND	3.71	3.22	2.83	2.23	300-8252-2-ND	1386.00	ASFL1-24.000MHZ-EC-T
24.00000	535-9260-1-ND	3.71	3.22	2.83	2.23	535-9260-2-ND	1386.00	ASFL1-24.000MHZ-EK-T
24.57600	300-8253-1-ND	3.71	3.22	2.83	2.23	300-8253-2-ND	1386.00	ASFL1-24.576MHZ-EC-T
24.57600	535-9261-1-ND	3.71	3.22	2.83	2.23	535-9261-2-ND	1386.00	ASFL1-24.576MHZ-EK-T
25.00000	300-8254-1-ND	3.71	3.22	2.83	2.23	300-8254-2-ND	1386.00	ASFL1-25.000MHZ-EC-T
25.00000	535-9262-1-ND	3.71	3.22	2.83	2.23	535-9262-2-ND	1386.00	ASFL1-25.000MHZ-EK-T
27.00000	300-8255-1-ND	3.71	3.22	2.83	2.23	300-8255-2-ND	1386.00	ASFL1-27.000MHZ-EC-T
27.00000	535-9263-1-ND	3.71	3.22	2.83	2.23	535-9263-2-ND	1386.00	ASFL1-27.000MHZ-EK-T
29.49120	300-8256-1-ND	3.71	3.22	2.83	2.23	300-8256-2-ND	1386.00	ASFL1-29.4912MHZ-EC-T
30.00000	300-8257-1-ND	3.71	3.22	2.83	2.23	300-8257-2-ND	1386.00	ASFL1-30.000MHZ-EC-T
30.00000	535-9264-1-ND	3.71	3.22	2.83	2.23	535-9264-2-ND	1386.00	ASFL1-30.000MHZ-EK-T
32.00000	300-8258-1-ND	2.72	2.33	1.98	1.84	300-8258-2-ND	1287.00	ASFL1-32.000MHZ-EC-T
32.00000	535-9265-1-ND	2.72	2.33	1.98	1.84	535-9265-2-ND	1287.00	ASFL1-32.000MHZ-EK-T
32.76800	300-8259-1-ND	3.71	3.22	2.83	2.23	300-8259-2-ND	1386.00	ASFL1-32.768MHZ-EC-T
33.00000	535-9266-1-ND	3.71	3.22	2.83	2.23	535-9266-2-ND	1386.00	ASFL1-33.000MHZ-EK-T
33.33300	300-8260-1-ND	3.71	3.22	2.83	2.23	300-8260-2-ND	1386.00	ASFL1-33.333MHZ-EC-T
33.33300	535-9267-1-ND	3.71	3.22	2.83	2.23	535-9267-2-ND	1386.00	ASFL1-33.333MHZ-EK-T
35.32800	300-8261-1-ND	2.72	2.33	1.98	1.84	300-8261-2-ND	1287.00	ASFL1-35.328MHZ-EC-T
40.00000	300-8262-1-ND	2.72	2.33	1.98	1.84	300-8262-2-ND	1287.00	ASFL1-40.000MHZ-EC-T
40.00000	535-9269-1-ND	3.71	3.22	2.83	2.23	535-9269-2-ND	1386.00	ASFL1-40.000MHZ-EK-T
48.00000	300-8263-1-ND	3.71	3.22	2.83	2.23	300-8263-2-ND	1386.00	ASFL1-48.000MHZ-EC-T
48.00000	535-9270-1-ND	3.71	3.22	2.83	2.23	535-9270-2-ND	1386.00	ASFL1-48.000MHZ-EK-T
50.00000	300-8264-1-ND	3.71	3.22	2.83	2.23	300-8264-2-ND	1386.00	ASFL1-50.000MHZ-EC-T
50.00000	535-9272-1-ND	3.71	3.22	2.83	2.23	535-9272-2-ND	1386.00	ASFL1-50.000MHZ-EK-T
60.00000	300-8265-1-ND	3.71	3.22	2.83	2.23	300-8265-2-ND	1386.00	ASFL1-60.000MHZ-EC-T
64.00000	300-8266-1-ND	3.71	3.22	2.83	2.23	300-8266-2-ND	1386.00	ASFL1-64.000MHZ-EC-T
66.66600	300-8267-1-ND	3.71	3.22	2.83	2.23	300-8267-2-ND	1386.00	ASFL1-66.666MHZ-EC-T
75.00000	300-8268-1-ND	3.71	3.22	2.83	2.23	300-8268-2-ND	1386.00	ASFL1-75.000MHZ-EC-T
80.00000	300-8269-1-ND	3.71	3.22	2.83	2.23	300-8269-2-ND	1386.00	ASFL1-80.000MHZ-EC-T
100.00000	300-8270-1-ND	6.19	5.37	4.71	3.72	300-8270-2-ND	2310.00	ASFL1-100.000MHZ-EC-T
106.25000	300-8271-1-ND	4.54	3.88	3.30	3.06	300-8271-2-ND	2145.00	ASFL1-106.250MHZ-EC-T
125.00000	300-8272-1-ND	6.19	5.37	4.71	3.72	300-8272-2-ND	2310.00	ASFL1-125.000MHZ-EC-T
133.33000	300-8273-1-ND	4.54	3.88	3.30	3.06	300-8273-2-ND	2145.00	ASFL1-133.330MHZ-EC-T

ASFL3 Series — 5.0 x 3.2 SMD Oscillators

Specifications: • **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Load Capacitance:** 15.0pF • **Supply Voltage:** 1.8V ±10% **Output:** CMOS 15pF **Features:** • Low current consumption • Tri-State output

Dim. in mm.

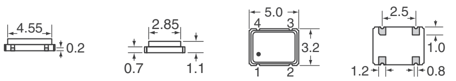

Pin	Function
1	Tri State
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Abracon Part No.
1.84320	535-9407-1-ND	3.71	3.22	2.83	2.23	535-9407-2-ND	1386.00	ASFL3-1.8432MHZ-EK-T
3.68640	535-9408-1-ND	2.72	2.33	1.98	1.84	535-9408-2-ND	1287.00	ASFL3-3.6864MHZ-EK-T
4.00000	535-9409-1-ND	2.72	2.33	1.98	1.84	535-9409-2-ND	1287.00	ASFL3-4.000MHZ-EK-T
8.00000	535-9410-1-ND	2.72	2.33	1.98	1.84	535-9410-2-ND	1287.00	ASFL3-8.000MHZ-EK-T
10.00000	535-9411-1-ND	3.71	3.22	2.83	2.23	535-9411-2-ND	1386.00	ASFL3-10.000MHZ-EK-T
11.05920	535-9412-1-ND	2.72	2.33	1.98	1.84	535-9412-2-ND	1287.00	ASFL3-11.0592MHZ-EK-T
12.00000	535-9413-1-ND	3.71	3.22	2.83	2.23	535-9413-2-ND	1386.00	ASFL3-12.000MHZ-EK-T
14.31818	535-9414-1-ND	3.71	3.22	2.83	2.23	535-9414-2-ND	1386.00	ASFL3-14.31818MHZ-EK-T
16.00000	535-9415-1-ND	3.71	3.22	2.83	2.23	535-9415-2-ND	1386.00	ASFL3-16.000MHZ-EK-T
20.00000	535-9416-1-ND	3.71	3.22	2.83	2.23	535-9416-2-ND	1386.00	ASFL3-20.000MHZ-EK-T
24.00000	535-9417-1-ND	3.71	3.22	2.83	2.23	535-9417-2-ND	1386.00	ASFL3-24.000MHZ-EK-T
24.57600	535-9418-1-ND	2.72	2.33	1.98	1.84	535-9418-2-ND	1287.00	ASFL3-24.576MHZ-EK-T
25.00000	535-9419-1-ND	3.71	3.22	2.83	2.23	535-9419-2-ND	1386.00	ASFL3-25.000MHZ-EK-T
27.00000	535-9420-1-ND	3.71	3.22	2.83	2.23	535-9420-2-ND	1386.00	ASFL3-27.000MHZ-EK-T
30.00000	535-9421-1-ND	3.71	3.22	2.83	2.23	535-9421-2-ND	1386.00	ASFL3-30.000MHZ-EK-T
32.00000	535-9422-1-ND	2.72	2.33	1.98	1.84	535-9422-2-ND	1287.00	ASFL3-32.000MHZ-EK-T
32.76800	535-9423-1-ND	4.88	4.23	3.71	2.93	535-9423-2-ND	1820.00	ASFL3-32.768MHZ-EK-T
40.00000	535-9424-1-ND	3.71	3.22	2.83	2.23	535-9424-2-ND	1386.00	ASFL3-40.000MHZ-EK-T
48.00000	535-9425-1-ND	2.72	2.33	1.98	1.84	535-9425-2-ND	1287.00	ASFL3-48.000MHZ-EK-T

ASFLM1 Series — 5.0 x 3.2 SMD MEMS Oscillators - “Low Cost Oscillators”

Specifications: • **Frequency Tolerance:** ±50ppm • **Operating Temperature:** 0°C ~ 70°C; L: 40°C ~ 85°C • **Supply Voltage:** 3.0VDC ±0.3V **Features:** • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Discera. • Suitable for high shock resistance, Industrial, Consumer, COTS military applications

Dim. in mm.

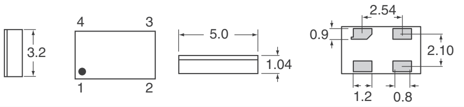

Pin	Function
1	Tri-state
2	GND
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Abracon Part No.
1.84320	535-9649-5-ND	2.45	2.10	1.75	1.40	ASFLM1-1.8432MHZ-C
3.68640	535-9650-5-ND	2.45	2.10	1.75	1.40	ASFLM1-3.6864MHZ-C
4.00000	535-9651-5-ND	2.45	2.10	1.75	1.40	ASFLM1-4.000MHZ-C
7.37280	535-9652-5-ND	2.45	2.10	1.75	1.40	ASFLM1-7.3728MHZ-C
8.00000	535-9653-5-ND	2.45	2.10	1.75	1.40	ASFLM1-8.000MHZ-C
10.00000	535-9654-5-ND	2.45	2.10	1.75	1.40	ASFLM1-10.000MHZ-C
11.05920	535-9655-5-ND	2.45	2.10	1.75	1.40	ASFLM1-11.0592MHZ-C
12.00000	535-9656-5-ND	2.45	2.10	1.75	1.40	ASFLM1-12.000MHZ-C
14.31818	535-9657-5-ND	2.45	2.10	1.75	1.40	ASFLM1-14.31818MHZ-C
14.74560	535-9658-5-ND	2.45	2.10	1.75	1.40	ASFLM1-14.7456MHZ-C
16.00000	535-9659-5-ND	2.45	2.10	1.75	1.40	ASFLM1-16.000MHZ-C
18.43200	535-9660-5-ND	2.45	2.10	1.75	1.40	ASFLM1-18.432MHZ-C
20.00000	535-9661-5-ND	2.45	2.10	1.75	1.40	ASFLM1-20.000MHZ-C
24.00000	535-9662-5-ND	2.45	2.10	1.75	1.40	ASFLM1-24.000MHZ-C
24.57600	535-9663-5-ND	2.45	2.10	1.75	1.40	ASFLM1-24.576MHZ-C
25.00000	535-9664-5-ND	2.45	2.10	1.75	1.40	ASFLM1-25.000MHZ-C
27.00000	535-9665-5-ND	2.45	2.10	1.75	1.40	ASFLM1-27.000MHZ-C
30.00000	535-9666-5-ND	2.45	2.10	1.75	1.40	ASFLM1-30.000MHZ-C
32.00000	535-9667-5-ND	2.45	2.10	1.75	1.40	ASFLM1-32.000MHZ-C
33.00000	535-9668-5-ND	2.45	2.10	1.75	1.40	ASFLM1-33.000MHZ-C
33.33300	535-9669-5-ND	2.45	2.10	1.75	1.40	ASFLM1-33.333MHZ-C
40.00000	535-9670-5-ND	2.45	2.10	1.75	1.40	ASFLM1-40.000MHZ-C
48.00000	535-9671-5-ND	2.45	2.10	1.75	1.40	ASFLM1-48.000MHZ-C
50.00000	535-9672-5-ND	2.45	2.10	1.75	1.40	ASFLM1-50.000MHZ-C
66.00000	535-9710-5-ND	2.38	2.04	1.70	1.36	ASFLM1-66.000MHZ-L-C
66.66660	535-9711-5-ND	2.38	2.04	1.70	1.36	ASFLM1-66.6666MHZ-L-C
72.00000	535-9712-5-ND	2.38	2.04	1.70	1.36	ASFLM1-72.000MHZ-L-C
75.00000	535-9713-5-ND	2.38	2.04	1.70	1.36	ASFLM1-75.000MHZ-L-C
80.00000	535-9714-5-ND	2.38	2.04	1.70	1.36	ASFLM1-80.000MHZ-L-C
100.00000	535-9715-5-ND	2.38	2.04	1.70	1.36	ASFLM1-100.000MHZ-L-C
125.00000	535-9716-5-ND	2.38	2.04	1.70	1.36	ASFLM1-125.000MHZ-L-C

ASEM1 Series — 3.2 x 2.5 SMD MEMS Oscillators - “Low Cost Oscillators”

Specifications: • **Frequency Tolerance:** ±50ppm • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3V ±0.3V **Features:** • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Discera • Suitable for high shock resistance, Industrial, Consumer, COTS military applications

Dim. in mm.

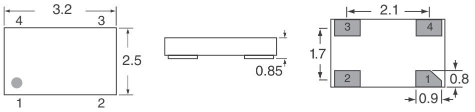

Pin	Function
1	Tri State
2	GND
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.8432	535-9751-1-ND	2.59	2.25	1.97	1.56	535-9751-2-ND	966.00	ASEM1-1.8432MHZ-LC-T
4.0000	535-9752-1-ND	2.59	2.25	1.97	1.56	535-9752-2-ND	966.00	ASEM1-4.000MHZ-LC-T
7.3728	535-9753-1-ND	2.59	2.25	1.97	1.56	535-9753-2-ND	966.00	ASEM1-7.3728MHZ-LC-T
8.0000	535-9754-1-ND	2.59	2.25	1.97	1.56	535-9754-2-ND	966.00	ASEM1-8.000MHZ-LC-T
10.0000	535-9755-1-ND	2.59	2.25	1.97	1.56	535-9755-2-ND	966.00	ASEM1-10.000MHZ-LC-T
11.0592	535-9756-1-ND	2.59	2.25	1.97	1.56	535-9756-2-ND	966.00	ASEM1-11.0592MHZ-LC-T
12.0000	535-9757-1-ND	2.59	2.25	1.97	1.56	535-9757-2-ND	966.00	ASEM1-12.000MHZ-LC-T
14.31818	535-9758-1-ND	2.59	2.25	1.97	1.56	535-9758-2-ND	966.00	ASEM1-14.31818MHZ-LC-T
14.7456	535-9759-1-ND	2.59	2.25	1.97	1.56	535-9759-2-ND	966.00	ASEM1-14.7456MHZ-LC-T
16.0000	535-9760-1-ND	2.59	2.25	1.97	1.56	535-9760-2-ND	966.00	ASEM1-16.000MHZ-LC-T
18.4320	535-9761-1-ND	2.59	2.25	1.97	1.56	535-9761-2-ND	966.00	ASEM1-18.432MHZ-LC-T
20.0000	535-9762-1-ND	2.59	2.25	1.97	1.56	535-9762-2-ND	966.00	ASEM1-20.000MHZ-LC-T
24.0000	535-9763-1-ND	2.59	2.25	1.97	1.56	535-9763-2-ND	966.00	ASEM1-24.000MHZ-LC-T
24.5760	535-9764-1-ND	2.59	2.25	1.97	1.56	535-9764-2-ND	966.00	ASEM1-24.576MHZ-LC-T

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ASEM1 Series — 3.2 x 2.5 SMD MEMS Oscillators - “Low Cost Oscillators” *(Cont.)*

Digi-Reel®

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
25.0000	535-9765-1-ND	2.59	2.25	1.97	1.56	535-9765-2-ND	966.00	ASEM1-25.000MHZ-LC-T
27.0000	535-9766-1-ND	2.59	2.25	1.97	1.56	535-9766-2-ND	966.00	ASEM1-27.000MHZ-LC-T
29.4912	535-9767-1-ND	2.59	2.25	1.97	1.56	535-9767-2-ND	966.00	ASEM1-29.4912MHZ-LC-T
30.0000	535-9768-1-ND	2.59	2.25	1.97	1.56	535-9768-2-ND	966.00	ASEM1-30.000MHZ-LC-T
32.0000	535-9769-1-ND	2.59	2.25	1.97	1.56	535-9769-2-ND	966.00	ASEM1-32.000MHZ-LC-T
33.0000	535-9770-1-ND	2.59	2.25	1.97	1.56	535-9770-2-ND	966.00	ASEM1-33.000MHZ-LC-T
33.3330	535-9771-1-ND	2.59	2.25	1.97	1.56	535-9771-2-ND	966.00	ASEM1-33.333MHZ-LC-T
44.0000	535-9772-1-ND	2.59	2.25	1.97	1.56	535-9772-2-ND	966.00	ASEM1-44.000MHZ-LC-T
48.0000	535-9773-1-ND	2.59	2.25	1.97	1.56	535-9773-2-ND	966.00	ASEM1-48.000MHZ-LC-T
50.0000	535-9774-1-ND	2.59	2.25	1.97	1.56	535-9774-2-ND	966.00	ASEM1-50.000MHZ-LC-T
60.0000	535-9775-1-ND	2.59	2.25	1.97	1.56	535-9775-2-ND	966.00	ASEM1-60.000MHZ-LC-T
80.0000	535-9776-1-ND	2.59	2.25	1.97	1.56	535-9776-2-ND	966.00	ASEM1-80.000MHZ-LC-T
100.0000	535-9777-1-ND	2.59	2.25	1.97	1.56	535-9777-2-ND	966.00	ASEM1-100.000MHZ-LC-T

ASDM Series — 2.5 x 2.0 SMD MEMS Oscillators - “Low Cost Oscillators”

Digi-Reel®

Specifications: • **Frequency Tolerance:** ±50ppm • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3V ±0.3V
Features: • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Discera. • Suitable for high shock resistance, Industrial, Consumer, COTS military applications

Dim. in mm.

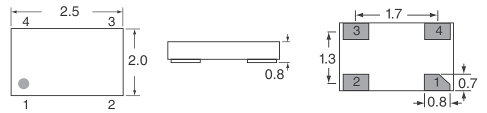

Pin	Function
1	Tri-state
2	GND
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
1.8432	535-9778-1-ND	2.93	2.54	2.23	1.76	535-9778-2-ND	1092.00	ASDM1-1.8432MHZ-LC-T
4.0000	535-9779-1-ND	2.93	2.54	2.23	1.76	535-9779-2-ND	1092.00	ASDM1-4.000MHZ-LC-T
7.3728	535-9780-1-ND	2.93	2.54	2.23	1.76	535-9780-2-ND	1092.00	ASDM1-7.3728MHZ-LC-T
8.0000	535-9781-1-ND	2.93	2.54	2.23	1.76	535-9781-2-ND	1092.00	ASDM1-8.000MHZ-LC-T
10.0000	535-9782-1-ND	2.93	2.54	2.23	1.76	535-9782-2-ND	1092.00	ASDM1-10.000MHZ-LC-T
11.0592	535-9783-1-ND	2.93	2.54	2.23	1.76	535-9783-2-ND	1092.00	ASDM1-11.0592MHZ-LC-T
12.0000	535-9784-1-ND	2.93	2.54	2.23	1.76	535-9784-2-ND	1092.00	ASDM1-12.000MHZ-LC-T
14.31818	535-9785-1-ND	2.93	2.54	2.23	1.76	535-9785-2-ND	1092.00	ASDM1-14.31818MHZ-LC-T
14.7456	535-9786-1-ND	2.93	2.54	2.23	1.76	535-9786-2-ND	1092.00	ASDM1-14.7456MHZ-LC-T
16.0000	535-9787-1-ND	2.93	2.54	2.23	1.76	535-9787-2-ND	1092.00	ASDM1-16.000MHZ-LC-T
18.4320	535-9788-1-ND	2.93	2.54	2.23	1.76	535-9788-2-ND	1092.00	ASDM1-18.432MHZ-LC-T
20.0000	535-9789-1-ND	2.93	2.54	2.23	1.76	535-9789-2-ND	1092.00	ASDM1-20.000MHZ-LC-T
24.0000	535-9790-1-ND	2.93	2.54	2.23	1.76	535-9790-2-ND	1092.00	ASDM1-24.000MHZ-LC-T
24.5760	535-9791-1-ND	2.93	2.54	2.23	1.76	535-9791-2-ND	1092.00	ASDM1-24.576MHZ-LC-T
25.0000	535-9792-1-ND	2.93	2.54	2.23	1.76	535-9792-2-ND	1092.00	ASDM1-25.000MHZ-LC-T
27.0000	535-9793-1-ND	2.93	2.54	2.23	1.76	535-9793-2-ND	1092.00	ASDM1-27.000MHZ-LC-T
29.4912	535-9794-1-ND	2.93	2.54	2.23	1.76	535-9794-2-ND	1092.00	ASDM1-29.4912MHZ-LC-T
30.0000	535-9795-1-ND	2.93	2.54	2.23	1.76	535-9795-2-ND	1092.00	ASDM1-30.000MHZ-LC-T
32.0000	535-9796-1-ND	2.93	2.54	2.23	1.76	535-9796-2-ND	1092.00	ASDM1-32.000MHZ-LC-T
33.0000	535-9797-1-ND	2.93	2.54	2.23	1.76	535-9797-2-ND	1092.00	ASDM1-33.000MHZ-LC-T
33.3330	535-9798-1-ND	2.93	2.54	2.23	1.76	535-9798-2-ND	1092.00	ASDM1-33.333MHZ-LC-T
44.0000	535-9799-1-ND	2.93	2.54	2.23	1.76	535-9799-2-ND	1092.00	ASDM1-44.000MHZ-LC-T
48.0000	535-9800-1-ND	2.93	2.54	2.23	1.76	535-9800-2-ND	1092.00	ASDM1-48.000MHZ-LC-T
50.0000	535-9801-1-ND	2.93	2.54	2.23	1.76	535-9801-2-ND	1092.00	ASDM1-50.000MHZ-LC-T
60.0000	535-9802-1-ND	2.93	2.54	2.23	1.76	535-9802-2-ND	1092.00	ASDM1-60.000MHZ-LC-T
80.0000	535-9803-1-ND	3.04	2.64	2.31	1.83	535-9803-2-ND	1134.00	ASDM1-80.000MHZ-LC-T
100.0000	535-9804-1-ND	3.04	2.64	2.31	1.83	535-9804-2-ND	1134.00	ASDM1-100.000MHZ-LC-T

ASML Series — 14 x 10 SMD Oscillators

Digi-Reel®

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** 0°C ~ 70°C • **Supply Voltage:** 3.3V ±10%
Features: • HCMOS and TTL compatible • Tri-State output

Dim. in mm.

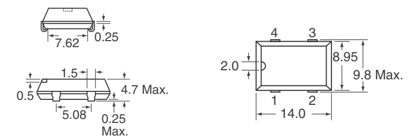

Pin	Function
1	Tri State
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
1.84320	535-9386-1-ND	1.79	1.53	1.30	1.21	—	—	ASML-1.8432MHZ-T
3.68640	535-9387-1-ND	1.79	1.53	1.30	1.21	—	—	ASML-3.6864MHZ-T
4.00000	535-9388-1-ND	1.79	1.53	1.30	1.21	—	—	ASML-4.000MHZ-T
14.31818	535-9393-1-ND	1.79	1.53	1.30	1.21	535-9393-2-ND	910.00	ASML-14.31818MHZ-T
16.00000	535-9394-1-ND	1.79	1.53	1.30	1.21	535-9394-2-ND	910.00	ASML-16.000MHZ-T
32.00000	535-9400-1-ND	1.79	1.53	1.30	1.21	535-9400-2-ND	910.00	ASML-32.000MHZ-T
32.76800	535-9401-1-ND	1.79	1.53	1.30	1.21	535-9401-2-ND	910.00	ASML-32.768MHZ-T
33.00000	535-9402-1-ND	1.79	1.53	1.30	1.21	—	—	ASML-33.000MHZ-T
33.33300	535-9403-1-ND	1.79	1.53	1.30	1.21	—	—	ASML-33.333MHZ-T

ASV Series — 7.0 x 5.0 SMD Oscillators

Digi-Reel®

Specifications: • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ±10% • **Frequency Tolerance: EJ:** ±20ppm, -20°C ~ 70°C; **EC:** ±50ppm, -20°C ~ 70°C; **E:** ±100ppm, -20°C ~ 70°C **Features:** • HCMOS and TTL compatible

Dim. in mm.

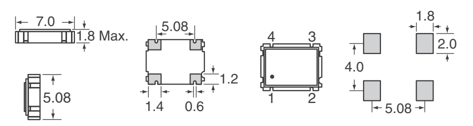

Pin	Function
1	Tri State Enable/Disable
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Tape & Reel§ Pricing 1,000	Abracon Part No.
		1	10	50	100		
1.84320	535-9315-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-1.8432MHZ-E-J-T
1.84320	535-10062-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-1.8432MHZ-E-T
3.68640	535-9326-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-3.6864MHZ-EJ-T
3.68640	535-10063-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-3.6864MHZ-E-T
4.00000	535-9329-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-4.000MHZ-EJ-T
4.00000	535-10064-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-4.000MHZ-E-T
7.37280	535-9331-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-7.3728MHZ-EJ-T
7.37280	535-10065-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-7.3728MHZ-E-T
8.00000	535-9332-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-8.000MHZ-EJ-T
8.00000	535-10066-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-8.000MHZ-E-T
10.00000	535-9307-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-10.000MHZ-E-J-T
10.00000	535-10067-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-10.000MHZ-E-T
11.05920	535-9308-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-11.0592MHZ-E-J-T
11.05920	535-10068-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-11.0592MHZ-E-T
12.00000	535-9309-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-12.000MHZ-E-J-T
12.00000	535-10069-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-12.000MHZ-E-T
14.31818	535-9310-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-14.31818MHZ-E-J-T
14.31818	535-10070-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-14.31818MHZ-E-T
14.74560	535-9311-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-14.7456MHZ-E-J-T
14.74560	535-10071-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-14.7456MHZ-E-T
16.00000	535-9312-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-16.000MHZ-E-J-T
16.00000	535-10072-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-16.000MHZ-E-T
16.38400	535-9313-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-16.384MHZ-E-J-T
16.38400	535-10073-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-16.384MHZ-E-T
18.43200	535-9314-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-18.432MHZ-E-J-T
18.43200	535-10074-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-18.432MHZ-E-T
20.00000	535-9316-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-20.000MHZ-E-J-T
20.00000	535-10075-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-20.000MHZ-E-T
24.00000	535-9317-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-24.000MHZ-E-J-T
24.00000	535-10076-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-24.000MHZ-E-T
24.57600	535-9318-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-24.576MHZ-E-J-T
24.57600	535-10077-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-24.576MHZ-E-T
25.00000	535-9319-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-25.000MHZ-E-J-T
25.00000	535-10078-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-25.000MHZ-E-T
27.00000	535-9320-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-27.000MHZ-E-J-T
27.00000	535-10079-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-27.000MHZ-E-T
29.49120	535-9321-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-29.4912MHZ-E-J-T
29.49120	535-10080-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-29.4912MHZ-E-T
30.00000	535-9322-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-30.000MHZ-E-J-T
30.00000	535-10081-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-30.000MHZ-E-T
32.00000	535-9323-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-32.000MHZ-E-J-T
32.00000	535-10082-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-32.000MHZ-E-T
33.00000	535-9324-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-33.000MHZ-E-J-T
33.00000	535-10083-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-33.000MHZ-E-T
33.33300	535-9325-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-33.333MHZ-E-J-T
33.33300	535-10084-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-33.333MHZ-E-T
40.00000	535-9327-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-40.000MHZ-E-J-T
40.00000	535-10085-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-40.000MHZ-E-T
48.00000	535-9328-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-48.000MHZ-E-J-T
48.00000	535-10086-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-48.000MHZ-E-T
50.00000	535-9330-1-ND	2.63	2.28	2.00	1.58	980.00	ASV-50.000MHZ-E-J-T
50.00000	535-10087-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-50.000MHZ-E-T
60.00000	535-10088-1-ND	1.84	1.60	1.40	1.11	686.00	ASV-60.000MHZ-E-T
100.00000	300-8232-1-ND	4.69	4.07	3.57	2.82	1750.00	ASV-100.000MHZ-E-C-T
106.25000	300-8233-1-ND	3.44	2.94	2.50	2.32	—	ASV-106.250MHZ-E-C-T
125.00000	300-8234-1-ND	4.69	4.07	3.57	2.82	1750.00	ASV-125.000MHZ-E-C-T
133.33000	300-8235-1-ND	5.81	5.04	4.42	3.49	2170.00	ASV-133.330MHZ-E-C-T
150.00000	300-8236-1-ND	7.50	6.50	5.70	4.50	2800.00	ASV-150.000MHZ-E-C-T

§ For Tape and Reel Part Number change -1-ND to -2-ND.

(Continued)

AOCJY Series SMD OCXOs

Applications: • Cellular infrastructure • Radar systems • Test and measurement equipment • GPS tracking with precision hold-over accuracy • WiMax/WLAN **Specifications:** • Operating Temperature Range: **E:** -20°C ~ 70°C; **F:** -40°C ~ 75°C; **No Suffix:** 0°C ~ 50°C ***Note:*** *For additional specifications, please see manufacturer's data sheet*

Dim. in mm.

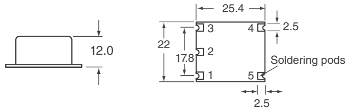

Pin	Function
1	Control voltage VC
2	Reference voltage output V_{REF}
3	Supply Voltage V_B
4	RF-output
5	Ground. case

Frequency (MHz)	Input Voltage	Output Type	Digi-Key Part No.	Price Each 1	10	50	Abracon Part No.
10.000	3.3	CMOS	535-10089-ND	134.30	121.51	111.92	AOCJY-10.000MHZ-F
12.800	3.3	CMOS	535-10090-ND	134.30	121.51	111.92	AOCJY-12.800MHZ-F
20.000	3.3	CMOS	535-10091-ND	134.30	121.51	111.92	AOCJY-20.000MHZ-F
38.880	3.3	CMOS	535-10092-ND	137.76	124.64	114.80	AOCJY-38.880MHZ-F
100.000	3.3	CMOS	535-10093-ND	144.59	130.82	120.49	AOCJY-100.000MHZ-F
10.000	3.3	CMOS	535-10094-ND	134.30	121.51	111.92	AOCJY-10.000MHZ-E
12.800	3.3	CMOS	535-10095-ND	134.30	121.51	111.92	AOCJY-12.800MHZ-E
20.000	3.3	CMOS	535-10096-ND	134.30	121.51	111.92	AOCJY-20.000MHZ-E
38.880	3.3	CMOS	535-10097-ND	137.76	124.64	114.80	AOCJY-38.880MHZ-E
100.000	3.3	CMOS	535-10098-ND	144.59	130.82	120.49	AOCJY-100.000MHZ-E
10.000	3.3	CMOS	535-10099-ND	134.30	121.51	111.92	AOCJY-10.000MHZ
12.800	3.3	CMOS	535-10100-ND	134.30	121.51	111.92	AOCJY-12.800MHZ
20.000	3.3	CMOS	535-10101-ND	134.30	121.51	111.92	AOCJY-20.000MHZ
38.880	3.3	CMOS	535-10102-ND	137.76	124.64	114.80	AOCJY-38.880MHZ
100.000	3.3	CMOS	535-10103-ND	144.59	130.82	120.49	AOCJY-100.000MHZ

ASVTX-09 Series — 5.0 x 3.2 SMD VCTCXO

Specifications: • **Frequency Stability:** ±2.5ppm; -30°C ~ 75°C • **Frequency Tolerance:** ±0.5ppm @ 25°C • **Operating Temperature:** -30°C ~ 75°C • **Supply Voltage:** 3V ±5%

Dim. in mm.

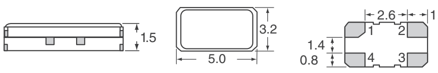

Pin	Function
1	Vcc
2	GND
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
12.80	535-9333-1-ND	7.50	6.50	5.70	4.50	535-9333-2-ND	2800.00	ASVTX-09-12.800MHZ-T
13.00	535-9334-1-ND	7.50	6.50	5.70	4.50	535-9334-2-ND	2800.00	ASVTX-09-13.00MHZ-T
14.40	535-9335-1-ND	7.50	6.50	5.70	4.50	535-9335-2-ND	2800.00	ASVTX-09-14.400MHZ-T
16.00	535-9336-1-ND	7.50	6.50	5.70	4.50	535-9336-2-ND	2800.00	ASVTX-09-16.000MHZ-T
16.80	535-9337-1-ND	7.50	6.50	5.70	4.50	535-9337-2-ND	2800.00	ASVTX-09-16.800MHZ-T
19.20	535-9338-1-ND	7.50	6.50	5.70	4.50	535-9338-2-ND	2800.00	ASVTX-09-19.200MHZ-T
19.44	535-9339-1-ND	5.50	4.70	4.00	3.70	535-9339-2-ND	2600.00	ASVTX-09-19.440MHZ-T
20.00	535-9702-1-ND	7.50	6.50	5.70	4.50	535-9702-2-ND	2800.00	ASVTX-09-20.000MHZ-T
26.00	535-9340-1-ND	7.50	6.50	5.70	4.50	535-9340-2-ND	2800.00	ASVTX-09-26.000MHZ-T

ASVTX-11 Series — 3.2 x 2.5 SMD VCTCXO

Specifications: • **Frequency Stability:** ±2.5ppm; -30°C ~ 75°C • **Operating Temperature:** -30°C ~ 75°C • **Supply Voltage:** 3V ±5%

Dim. in mm.

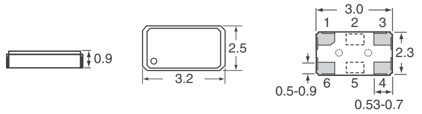

Pin	Function
1	Vcc
2	N.C.
3	GND
4	OUTPUT
5	N.C.
6	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
13.000	535-9612-1-ND	6.19	5.29	4.50	4.17	535-9612-2-ND	2925.00	ASVTX-11-A-13.000MHZ-T
14.400	535-9613-1-ND	8.44	7.32	6.42	5.07	535-9613-2-ND	3150.00	ASVTX-11-A-14.400MHZ-T
16.357	535-9614-1-ND	6.19	5.29	4.50	4.17	535-9614-2-ND	2925.00	ASVTX-11-A-16.357MHZ-T
16.368	535-9615-1-ND	6.19	5.29	4.50	4.17	535-9615-2-ND	2925.00	ASVTX-11-A-16.368MHZ-T
19.200	535-9616-1-ND	8.44	7.32	6.42	5.07	535-9616-2-ND	3150.00	ASVTX-11-A-19.200MHZ-T
20.000	535-9617-1-ND	8.44	7.32	6.42	5.07	535-9617-2-ND	3150.00	ASVTX-11-A-20.000MHZ-T
24.576	535-9618-1-ND	8.44	7.32	6.42	5.07	535-9618-2-ND	3150.00	ASVTX-11-A-24.576MHZ-T
26.000	535-9619-1-ND	8.44	7.32	6.42	5.07	535-9619-2-ND	3150.00	ASVTX-11-A-26.000MHZ-T
33.600	535-9620-1-ND	6.19	5.29	4.50	4.17	535-9620-2-ND	2925.00	ASVTX-11-A-33.600MHZ-T
38.400	535-9621-1-ND	8.44	7.32	6.42	5.07	535-9621-2-ND	3150.00	ASVTX-11-A-38.400MHZ-T

ASVV Series — 7.0 x 5.0 SMD VCXO

Specifications: • **Frequency Stability:** ±50ppm; 0°C ~ 70°C • **Operating Temperature:** 0°C ~ 70°C • **Supply Voltage:** 3.3V ±5% • **Pullability @ Voltage:** ±150ppm @ 3VDC (N152); ±100ppm @ 3VDC (N102)

Dim. in mm.

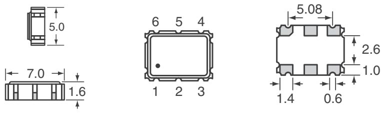

Pin	Function
1	VC
2	Tri State
3	GND/Case
4	Output
5	N/C
6	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.544	535-9343-1-ND	3.63	3.11	2.64	2.45	535-9343-2-ND	1716.00	ASVV-1.544MHZ-N152-T
4.096	535-9351-1-ND	3.63	3.11	2.64	2.45	535-9351-2-ND	1716.00	ASVV-4.096MHZ-N152-T
6.176	535-9352-1-ND	3.63	3.11	2.64	2.45	535-9352-2-ND	1716.00	ASVV-6.176MHZ-N152-T
16.384	535-9341-1-ND	4.95	4.29	3.77	2.97	535-9341-2-ND	1848.00	ASVV-16.384MHZ-N152-T
19.440	535-9342-1-ND	3.63	3.11	2.64	2.45	535-9342-2-ND	1716.00	ASVV-19.440MHZ-N152-T
20.000	535-9344-1-ND	3.63	3.11	2.64	2.45	535-9344-2-ND	1716.00	ASVV-20.000MHZ-N152-T
27.000	535-9345-1-ND	4.95	4.29	3.77	2.97	535-9345-2-ND	1848.00	ASVV-27.000MHZ-N152-T
32.768	535-9346-1-ND	3.63	3.11	2.64	2.45	535-9346-2-ND	1716.00	ASVV-32.768MHZ-N152-T
35.328	535-9347-1-ND	3.63	3.11	2.64	2.45	535-9347-2-ND	1716.00	ASVV-35.328MHZ-N152-T
38.880	535-9348-1-ND	3.63	3.11	2.64	2.45	535-9348-2-ND	1716.00	ASVV-38.880MHZ-N152-T
40.000	535-9349-1-ND	4.95	4.29	3.77	2.97	535-9349-2-ND	1848.00	ASVV-40.000MHZ-N102-T
44.736	535-9350-1-ND	3.63	3.11	2.64	2.45	535-9350-2-ND	1716.00	ASVV-44.736MHZ-N102-T

Test and Burn-In Sockets

Note: *For additional specifications, please see manufacturer's data sheet.*

Pad Count	Device Type	Digi-Key Part No.	Price Each 1	10	50	Abracon Part No.
		2.0 x 1.2mm Package				
2	Crystal	535-10107-ND	47.25	40.50	33.75	AXS-2012-02-04
		2.0 x 1.6mm Package				
4	Oscillator	535-10108-ND	57.75	49.50	41.25	AXS-2016-04-04
		2.5 x 2.0mm Packages				
4	Oscillator	535-10109-ND	37.28	31.95	26.63	AXS-2520-04-01
4	Oscillator	535-10110-ND	37.28	31.95	26.63	AXS-2520-04-05
4	Oscillator	535-10111-ND	37.28	31.95	26.63	AXS-2520-04-07
4	Oscillator	535-10112-ND	37.28	31.95	26.63	AXS-2520-04-08
4	Crystal	535-10113-ND	37.28	31.95	26.63	AXS-2520-04-09
4	Crystal	535-10114-ND	37.28	31.95	26.63	AXS-2520-04-10
4	Oscillator	535-10115-ND	37.28	31.95	26.63	AXS-2520-04-11
		3.0 x 3.0mm Package				
6	Saw Filter	535-10116-ND	50.40	43.20	36.00	AXS-3030-06-03
		3.2 x 1.5mm Packages				
2	Crystal	535-10117-ND	37.28	31.95	26.63	AXS-3215-02-01
2	Crystal	535-10118-ND	37.28	31.95	26.63	AXS-3215-02-05
		3.2 x 2.5mm Packages				
2	Crystal	535-10119-ND	37.28	31.95	26.63	AXS-3225-02-01
4	Crystal	535-10120-ND	37.28	31.95	26.63	AXS-3225-04-01
4	Crystal or Oscillator	535-10121-ND	37.28	31.95	26.63	AXS-3225-04-02
4	Crystal	535-10122-ND	37.28	31.95	26.63	AXS-3225-04-04
4	Oscillator	535-10123-ND	37.28	31.95	26.63	AXS-3225-04-05
4	Oscillator	535-10124-ND	37.28	31.95	26.63	AXS-3225-04-06
4	Oscillator	535-10125-ND	37.28	31.95	26.63	AXS-3225-04-07
4	Oscillator	535-10126-ND	37.28	31.95	26.63	AXS-3225-04-08
4	Oscillator	535-10127-ND	37.28	31.95	26.63	AXS-3225-04-10
4	Crystal	535-10128-ND	37.28	31.95	26.63	AXS-3225-04-12

Pad Count	Device Type	Digi-Key Part No.	Price Each 1	10	50	Abracon Part No.
		3.8 x 3.8mm Packages				
6	Saw Filter	535-10129-ND	38.33	32.85	27.38	AXS-3838-06-01
8	Saw Filter	535-10130-ND	38.33	32.85	27.38	AXS-3838-08-01
		4.1 x 1.5mm Package				
2	Crystal	535-10131-ND	37.28	31.95	26.63	AXS-4115-02-06
		4.9 x 1.8mm Package				
2	Crystal	535-10132-ND	37.28	31.95	26.63	AXS-4918-02-11
		5.0 x 3.2mm Packages				
2	Crystal	535-10133-ND	37.28	31.95	26.63	AXS-5032-02-06
4	Crystal or Oscillator	535-10134-ND	37.28	31.95	26.63	AXS-5032-04-02
4	Crystal or Oscillator	535-10135-ND	37.28	31.95	26.63	AXS-5032-04-04
4	Crystal or Oscillator	535-10136-ND	37.28	31.95	26.63	AXS-5032-04-06
4	Crystal or Oscillator	535-10137-ND	37.28	31.95	26.63	AXS-5032-04-07
4	Crystal or Oscillator	535-10138-ND	37.28	31.95	26.63	AXS-5032-04-12
		7.0 x 5.0mm Packages				
4	Crystal or Oscillator	535-10139-ND	37.28	31.95	26.63	AXS-7050-04-01
4	Crystal	535-10140-ND	37.28	31.95	26.63	AXS-7050-04-02
4	Crystal or Oscillator	535-10141-ND	37.28	31.95	26.63	AXS-7050-04-12
4	Oscillator	535-10142-ND	37.28	31.95	26.63	AXS-7050-04-17
6	Oscillator	535-10143-ND	37.28	31.95	26.63	AXS-7050-06-07
6	Oscillator	535-10144-ND	37.28	31.95	26.63	AXS-7050-06-13
		7.5 x 5.0mm Packages				
6	Oscillator	535-10145-ND	37.28	31.95	26.63	AXS-7550-06-03
6	Oscillator	535-10146-ND	37.28	31.95	26.63	AXS-7550-06-05
		8.0 x 4.5mm Package				
2	Crystal	535-10147-ND	37.28	31.95	26.63	AXS-8045-02-04
		11.5 x 4.8mm Package				
2	Crystal	535-10105-ND	38.33	32.85	27.38	AXS-1147-02-02
		11.8 x 5.5mm Package				
4	Crystal	535-10106-ND	38.33	32.85	27.38	AXS-1155-04-01

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CITIZEN
Micro HumanTech

CSX-750FCC, FBC, FJC Series SMD Oscillators

Digi-Reel® RoHS COMPLIANT

SPECIFICATIONS	CSX-750FCC		CSX-750FBC	CSX-750FJC
Frequency Range (MHz):	1.000 ~ 39.999	40.000 ~ 70.000	1.000 ~ 39.999	40.000 ~ 80.000
Frequency Stability:	C: ±100ppm @ (-20°C ~ 70°C)			
Operating Temperature:	-40°C ~ 85°C			
Storage Temperature:	-55°C ~ 125°C			
Supply Voltage:	Vdd: 5.0V±0.5V		Vdd: 3.3V±0.3V	Vdd: 3.3V±0.3V
Supply Current:	25mA Max.	45mA Max.	15mA Max.	25mA Max.
Duty: TTL Level (1.4V):	40% ~ 60%		—	—
CMOS Level (VDD/2):	45% ~ 55%			
Output Voltage: VOH:	0.9V Min.			
VOL:	0.4V Max.		0.1V Max.	0.1V Max.
Output Load: TTL:	10TTL Max.		—	—
CMOS:	50pF Max.		30pF Max.	30pF Max.
Rise & Fall Time: CMOS:	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.
Start Up Time:	4msec Max.	10msec Max.	4msec Max.	10msec Max.
Input (OE) Voltage:	V IH: 2.0V Min.		V IH: 2.0V Min.	V IH: 0.7VDD Min.
	V IL: 0.8V Max.		V IL: 0.4V Max.	V IL: 0.3VDD Max.
Disable Current: FC, FB	10mA Max.	20mA Max.	5mA Max.	—
Stand-by Current: FJ	—	—	—	10µA Max.
Shock Resistance	±20ppm Max. *(75cm height drop on hardwood board 3 times.)*			

Pin Connection	
1	OE or Standby
2	Gnd
3	Out
4	Vdd

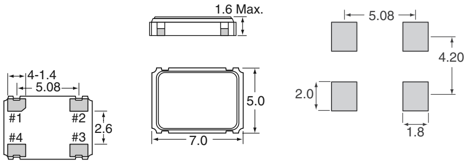

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
		CSX750FBC				
1.843200	300-7230-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC1.8432M-UT
3.686400	300-7231-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC3.6864M-UT
4.000000	300-7232-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC4.000M-UT
7.372800	300-7233-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC7.3728M-UT
8.000000	300-7234-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC8.000M-UT
10.000000	300-7235-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC10.000M-UT
12.000000	300-7236-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC12.000M-UT
12.288000	300-7237-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC12.288M-UT
14.318180	300-7238-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC14.31818M-UT
14.745600	300-7239-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC14.7456M-UT
16.000000	300-7240-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC16.000M-UT
16.384000	300-7241-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FBC16.384M-UT
18.432000	300-7242-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC18.432M-UT
20.000000	300-7243-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC20.000M-UT
24.000000	300-7244-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC24.000M-UT
24.576000	300-7245-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC24.576M-UT
25.000000	300-7246-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC25.000M-UT
27.000000	300-7247-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC27.000M-UT
29.491200	300-7248-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC29.4912M-UT
32.000000	300-7249-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC32.000M-UT
32.768000	300-7250-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FBC32.768M-UT
33.333000	300-7251-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FBC33.333M-UT
35.328000	300-7252-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FBC35.328M-UT
		CSX750FCC				
1.843200	300-7200-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC1.8432M-UT
3.686400	300-7201-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC3.6864M-UT
4.000000	300-7202-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC4.000M-UT
7.372800	300-7203-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC7.3728M-UT
8.000000	300-7204-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC8.000M-UT
10.000000	300-7205-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC10.000M-UT
12.000000	300-7206-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC12.000M-UT
12.288000	300-7207-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC12.288M-UT
14.318180	300-7208-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC14.31818M-UT
14.745600	300-7209-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC14.7456M-UT
16.000000	300-7210-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC16.000M-UT
16.384000	300-7211-1-ND	2.48	2.12	1.80	1040.00/M	CSX750FCC16.384M-UT
18.432000	300-7212-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC18.432M-UT
20.000000	300-7213-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC20.000M-UT
24.000000	300-7214-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC24.000M-UT
24.576000	300-7215-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC24.576M-UT
25.000000	300-7216-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC25.000M-UT
27.000000	300-7217-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC27.000M-UT
29.491200	300-7218-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC29.4912M-UT
32.000000	300-7219-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC32.000M-UT
32.768000	300-7220-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FCC32.768M-UT
33.333000	300-7221-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FCC33.333M-UT
35.328000	300-7222-1-ND	2.48	2.12	1.80	1040.00/M	CSX750FCC35.328M-UT
40.000000	300-7223-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FCC40.000M-UT
44.000000	300-7224-1-ND	2.48	2.12	1.80	1040.00/M	CSX750FCC44.000M-UT
45.000000	300-7225-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FCC45.000M-UT
49.152000	300-7226-1-ND	2.48	2.12	1.80	—	CSX750FCC49.152M-UT
50.000000	300-7227-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC50.000M-UT
60.000000	300-7228-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FCC60.000M-UT
66.666000	300-7229-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FCC66.666M-UT
		CSX750FJC				
40.000000	300-7253-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FJC40.000M-UT
44.000000	300-7254-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FJC44.000M-UT
45.000000	300-7255-1-ND	2.20	1.88	1.60	1040.00/M	CSX750FJC45.000M-UT
49.152000	300-7256-1-ND	2.20	1.88	1.60	—	CSX750FJC49.152M-UT
50.000000	300-7257-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FJC50.000M-UT
60.000000	300-7258-1-ND	2.80	2.40	2.00	1120.00/M	CSX750FJC60.000M-UT
66.666000	300-7259-1-ND	3.00	2.60	2.28	1120.00/M	CSX750FJC66.666M-UT
80.000000	300-8191-1-ND	3.44	2.94	2.50	—	CSX750FJB80.000M-UT
80.000000	300-8231-1-ND	3.94	3.42	3.00	1470.00/M	CSX750FJC80.000M-UT

* For Tape and Reel part number, change 1-ND to 2-ND.

CSX-750V Series Voltage Controlled Crystal Oscillators

RoHS COMPLIANT Digi-Reel®

Specifications:
• **Supply Voltage:** *CSX-750VJ:* 5.0V ±0.5; *CSX-750VK:* 3.3V ±0.3 • **Frequency Stability:** ±50ppm • **Pullability:** *CSX-750VJ:* ±100ppm; *CSX-750VK:* ±90ppm • **Output Current:** 10mA • **Operating Temperature:** -20°C ~ 70°C • **Duty Cycle:** 45% Min., 55% Max.

Pin Connection	
1	VC
2	NC
3	Gnd
4	Out
5	OE
6	Vdd

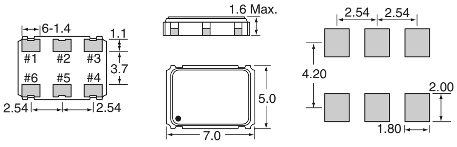

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
4.096	300-8173-1-ND	4.13	3.53	3.00	—	—	CSX750VKB4.096M-UT
8.000	300-8174-1-ND	4.13	3.53	3.00	300-8174-2-ND	1950.00/M	CSX750VKB8.000M-UT
8.000	300-8158-1-ND	4.13	3.53	3.00	300-8158-2-ND	1950.00/M	CSX750VCB8.000M-UT
12.288	300-8160-1-ND	4.13	3.53	3.00	—	—	CSX750VCB12.288M-UT
12.352	300-8161-1-ND	4.13	3.38	3.00	300-8161-2-ND	1950.00/M	CSX750VCB12.352M-UT
13.500	300-8178-1-ND	8.25	7.05	6.00	300-8178-2-ND	2100.00/M	CSX750VKB13.500M-UT
13.500	300-8162-1-ND	8.25	7.05	6.00	300-8162-2-ND	1950.00/M	CSX750VCB13.500M-UT
19.440	300-8164-1-ND	4.13	3.53	3.00	300-8164-2-ND	1950.00/M	CSX750VCB19.440M-UT
24.704	300-8167-1-ND	4.13	3.53	3.00	300-8167-2-ND	1950.00/M	CSX750VCB24.704M-UT
25.000	300-8168-1-ND	4.13	3.53	3.00	—	—	CSX750VCB25.000M-UT
32.000	300-8170-1-ND	4.13	3.53	3.00	—	—	CSX750VCB32.000M-UT
32.768	300-8171-1-ND	4.13	3.53	3.00	—	—	CSX750VCB32.768M-UT
35.328	300-8188-1-ND	4.13	3.53	3.00	300-8188-2-ND	1950.00/M	CSX750VKB35.328M-UT
35.328	300-8172-1-ND	4.13	3.53	3.00	—	—	CSX750VCB35.328M-UT

32.768kHz Tuning Fork Crystals

Fig. 1

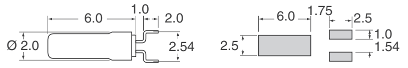

Fig. 2

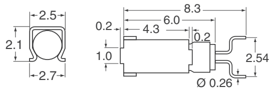

Fig. 3

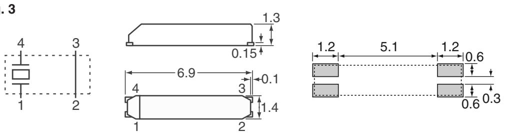

Fig. 4

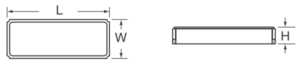

Dimensions (mm)			
Series	**L**	**W**	**H (max.)**
CM315	3.2	1.5	0.9
CM415	4.1	1.5	0.9
CM519	4.9	1.8	1.0

Fig. 5 ***NEW!***

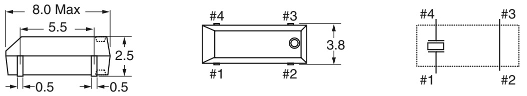

Fig.	Load Capacitance (pF)	Shunt Capacitance (pF)	Frequency Tolerance @ 25°C	Operating Temperature	ESR @ 25°C (Max.)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Citizen Part No.
							1	10	50		Qty.	Pricing	
Cylinder Type Tuning Fork Crystals — SMT													
1	6.0	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8341-1-ND	.68	.59	.52	300-8341-2-ND	2,000	252.00/M	CMR200T-32.768KDZB-UT
	7.0	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8736-1-ND	.68	.59	.52	300-8736-2-ND	2,000	252.00/M	CMR200T-32.768KDZY-UT
	12.5	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8340-1-ND	.68	.59	.52	300-8340-2-ND	2,000	252.00/M	CMR200T-32.768KDZF-UT
2	6.0	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8664-1-ND	.83	.72	.63	300-8664-2-ND	3,000	297.00/M	CMJ206T-32.768KDZB-UT
	12.5	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8663-1-ND	.83	.72	.63	300-8663-2-ND	3,000	297.00/M	CMJ206T-32.768KDZF-UT
Tuning Fork Crystals — SMT													
3	12.5	1.20	±20ppm	-40°C ~ 85°C	65kΩ	300-8633-1-ND	1.28	1.11	.97	300-8633-2-ND	3,000	459.00/M	CM130-32.768KDZF-UT
4	12.5	1.05	±10ppm	-40°C ~ 85°C	70kΩ	300-8751-1-ND ***NEW!***	2.81	2.44	2.14	300-8751-2-ND ***NEW!***	3,000	1012.50/M	CM315-32.768KEZF-UT
	7.0	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8730-1-ND	2.44	2.12	1.86	300-8730-2-ND	3,000	877.50/M	CM315-32.768KDZY-UT
	9.0	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8729-1-ND	2.44	2.12	1.86	300-8729-2-ND	3,000	877.50/M	CM315-32.768KDZC-UT
	12.5	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8728-1-ND	2.44	2.12	1.86	300-8728-2-ND	3,000	877.50/M	CM315-32.768KDZF-UT
	12.5	1.05	±10ppm	-40°C ~ 85°C	70kΩ	300-8750-1-ND ***NEW!***	2.44	2.12	1.86	300-8750-2-ND ***NEW!***	3,000	877.50/M	CM415-32.768KEZF-UT
	7.0	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8732-1-ND	2.06	1.79	1.57	300-8732-2-ND	3,000	742.50/M	CM415-32.768KDZY-UT
	9.0	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8731-1-ND	2.06	1.79	1.57	300-8731-2-ND	3,000	742.50/M	CM415-32.768KDZC-UT
	12.5	1.05	±20ppm	-40°C ~ 85°C	70kΩ	300-8193-1-ND	2.06	1.79	1.57	300-8193-2-ND	3,000	742.50/M	CM415-32.768KDZF-UT
	12.5	1.33	±10ppm	-40°C ~ 85°C	70kΩ	300-8749-1-ND ***NEW!***	2.06	1.79	1.57	300-8749-2-ND ***NEW!***	3,000	742.50/M	CM519-32.768KEZF-UT
	7.0	1.33	±20ppm	-40°C ~ 85°C	70kΩ	300-8734-1-ND	1.69	1.47	1.29	300-8734-2-ND	3,000	607.50/M	CM519-32.768KDZY-UT
	9.0	1.33	±20ppm	-40°C ~ 85°C	70kΩ	300-8733-1-ND	1.69	1.47	1.29	300-8733-2-ND	3,000	607.50/M	CM519-32.768KDZC-UT
	12.5	1.33	±20ppm	-40°C ~ 85°C	70kΩ	300-8194-1-ND	1.69	1.47	1.29	300-8194-2-ND	3,000	607.50/M	CM519-32.768KDZF-UT
5	12.5	1.35	±5ppm	-40°C ~ 85°C	50kΩ	300-8742-1-ND ***NEW!***	1.31	1.14	1.00	300-8742-2-ND ***NEW!***	3,000	472.50/M	CM200C-32.768KHZF-UT
	12.5	1.35	±10ppm	-40°C ~ 85°C	50kΩ	300-8741-1-ND ***NEW!***	1.05	.91	.80	300-8741-2-ND ***NEW!***	3,000	378.00/M	CM200C-32.768KEZF-UT
	6.0	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8739-1-ND ***NEW!***	.90	.78	.69	300-8739-2-ND ***NEW!***	3,000	324.00/M	CM200C-32.768KDZB-UT
	12.5	1.35	±20ppm	-40°C ~ 85°C	50kΩ	300-8740-1-ND ***NEW!***	.90	.78	.69	300-8740-2-ND ***NEW!***	3,000	324.00/M	CM200C-32.768KDZF-UT
	12.5	1.35	±30ppm	-40°C ~ 85°C	50kΩ	300-8738-1-ND ***NEW!***	.75	.65	.57	300-8738-2-ND ***NEW!***	3,000	270.00/M	CM200C-32.768KAZF-UT

CS325 and CS325H Series SMT Crystals

Specifications:

- Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -55°C ~ 125°C
- Shunt Capacitance: 5.0pF Maximum • Drive Level: 10µW (100µW Maximum) • Insulation Resistance: 500MΩ Minimum

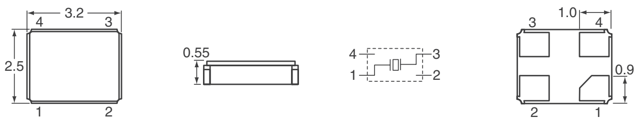

Frequency (MHz)	Frequency Tolerance @ 25°C	Frequency Stability (-10°C ~ 60°C)	Load Capacitance	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Citizen Part No.
					1	10	50			
CS325 Series										
12.000	±30ppm	±50ppm	18pF	300-8766-1-ND ***NEW!***	2.06	1.79	1.57	300-8766-2-ND ***NEW!***	742.50/M	CS325-12.000MABJ-UT
13.000	±30ppm	±50ppm	18pF	300-8665-1-ND	2.06	1.79	1.57	300-8665-2-ND	742.50/M	CS325-13.000MABJ-UT
13.5600	±30ppm	±50ppm	18pF	300-8666-1-ND	2.06	1.79	1.57	300-8666-2-ND	742.50/M	CS325-13.560MABJ-UT
14.31818	±30ppm	±50ppm	18pF	300-8667-1-ND	2.06	1.79	1.57	300-8667-2-ND	742.50/M	CS325-14.31818MABJ-UT
16.0000	±30ppm	±50ppm	18pF	300-8668-1-ND	2.06	1.79	1.57	300-8668-2-ND	742.50/M	CS325-16.000MABJ-UT
16.3840	±30ppm	±50ppm	18pF	300-8669-1-ND	1.51	1.30	1.10	300-8669-2-ND	687.50/M	CS325-16.384MABJ-UT
18.4320	±30ppm	±50ppm	18pF	300-8670-1-ND	2.06	1.79	1.57	300-8670-2-ND	742.50/M	CS325-18.432MABJ-UT
18.9375	±30ppm	±50ppm	18pF	300-8767-1-ND ***NEW!***	2.06	1.79	1.57	300-8767-2-ND ***NEW!***	742.50/M	CS325-18.9375MABJ-UT
19.069928	±30ppm	±50ppm	18pF	300-8768-1-ND ***NEW!***	2.06	1.79	1.57	300-8768-2-ND ***NEW!***	742.50/M	CS325-19.069928MABJ-UT
19.2000	±30ppm	±50ppm	18pF	300-8671-1-ND	2.06	1.79	1.57	300-8671-2-ND	742.50/M	CS325-19.200MABJ-UT
20.500	±30ppm	±50ppm	18pF	300-8769-1-ND ***NEW!***	2.06	1.79	1.57	300-8769-2-ND ***NEW!***	742.50/M	CS325-20.500MABJ-UT
24.0000	±30ppm	±50ppm	18pF	300-8672-1-ND	2.06	1.79	1.57	300-8672-2-ND	742.50/M	CS325-24.000MABJ-UT
24.500	±30ppm	±50ppm	18pF	300-8770-1-ND ***NEW!***	2.06	1.79	1.57	300-8770-2-ND ***NEW!***	742.50/M	CS325-24.500MABJ-UT
24.5760	±30ppm	±50ppm	18pF	300-8673-1-ND	2.06	1.79	1.57	300-8673-2-ND	742.50/M	CS325-24.576MABJ-UT
24.975	±30ppm	±50ppm	18pF	300-8771-1-ND ***NEW!***	2.06	1.79	1.57	300-8771-2-ND ***NEW!***	742.50/M	CS325-24.975MABJ-UT
25.0000	±30ppm	±50ppm	18pF	300-8674-1-ND	2.06	1.79	1.57	300-8674-2-ND	742.50/M	CS325-25.000MABJ-UT
26.0000	±30ppm	±50ppm	18pF	300-8675-1-ND	2.06	1.79	1.57	300-8675-2-ND	742.50/M	CS325-26.000MABJ-UT
26.650	±30ppm	±50ppm	18pF	300-8772-1-ND ***NEW!***	2.06	1.79	1.57	300-8772-2-ND ***NEW!***	742.50/M	CS325-26.650MABJ-UT
27.0000	±30ppm	±50ppm	18pF	300-8676-1-ND	2.06	1.79	1.57	300-8676-2-ND	742.50/M	CS325-27.000MABJ-UT
27.120	±30ppm	±50ppm	18pF	300-8773-1-ND ***NEW!***	2.06	1.79	1.57	300-8773-2-ND ***NEW!***	742.50/M	CS325-27.120MABJ-UT
28.6363	±30ppm	±50ppm	18pF	300-8677-1-ND	2.06	1.79	1.57	300-8677-2-ND	742.50/M	CS325-28.6363MABJ-UT
29.4912	±30ppm	±50ppm	18pF	300-8774-1-ND ***NEW!***	2.06	1.79	1.57	300-8774-2-ND ***NEW!***	742.50/M	CS325-29.49120MABJ-UT
30.0000	±30ppm	±50ppm	18pF	300-8678-1-ND	2.06	1.79	1.57	300-8678-2-ND	742.50/M	CS325-30.000MABJ-UT
32.0000	±30ppm	±50ppm	18pF	300-8679-1-ND	2.06	1.79	1.57	300-8679-2-ND	742.50/M	CS325-32.000MABJ-UT
33.0000	±30ppm	±50ppm	18pF	300-8680-1-ND	1.51	1.30	1.10	300-8680-2-ND	687.50/M	CS325-33.000MABJ-UT
33.3333	±30ppm	±50ppm	18pF	300-8681-1-ND	2.06	1.79	1.57	300-8681-2-ND	742.50/M	CS325-33.3333MABJ-UT
37.050	±30ppm	±50ppm	18pF	300-8775-1-ND ***NEW!***	2.06	1.79	1.57	300-8775-2-ND ***NEW!***	742.50/M	CS325-37.050MABJ-UT
40.0000	±30ppm	±50ppm	18pF	300-8682-1-ND	1.51	1.30	1.10	300-8682-2-ND	687.50/M	CS325-40.000MABJ-UT
44.0000	±30ppm	±50ppm	18pF	300-8683-1-ND	1.51	1.30	1.10	300-8683-2-ND	687.50/M	CS325-44.000MABJ-UT
48.0000	±30ppm	±50ppm	18pF	300-8684-1-ND	1.51	1.30	1.10	300-8684-2-ND	687.50/M	CS325-48.000MABJ-UT
52.000	±30ppm	±50ppm	18pF	300-8776-1-ND ***NEW!***	2.06	1.79	1.57	300-8776-2-ND ***NEW!***	742.50/M	CS325-52.000MABJ-UT
53.1250	±30ppm	±50ppm	18pF	300-8685-1-ND	1.51	1.30	1.10	300-8685-2-ND	687.50/M	CS325-53.125MABJ-UT
NEW! CS325H Series NEW!										
24.000	±10ppm	±20ppm	10pF	300-8752-1-ND	2.45	2.10	1.75	300-8752-2-ND	945.00/M	CS325H-24.000MEDQ-UT
25.000	±10ppm	±20ppm	10pF	300-8753-1-ND	2.45	2.10	1.75	300-8753-2-ND	945.00/M	CS325H-25.000MEDQ-UT
26.000	±10ppm	±20ppm	10pF	300-8754-1-ND	2.45	2.10	1.75	300-8754-2-ND	945.00/M	CS325H-26.000MEDQ-UT
27.000	±10ppm	±20ppm	10pF	300-8755-1-ND	2.45	2.10	1.75	300-8755-2-ND	945.00/M	CS325H-27.000MEDQ-UT
28.63636	±10ppm	±20ppm	10pF	300-8756-1-ND	2.45	2.10	1.75	300-8756-2-ND	945.00/M	CS325H-28.63636MEDQ-UT
32.000	±10ppm	±20ppm	10pF	300-8757-1-ND	2.45	2.10	1.75	300-8757-2-ND	945.00/M	CS325H-32.000MEDQ-UT
33.000	±10ppm	±20ppm	10pF	300-8758-1-ND	2.45	2.10	1.75	300-8758-2-ND	945.00/M	CS325H-33.000MEDQ-UT
40.000	±10ppm	±20ppm	10pF	300-8759-1-ND	2.45	2.10	1.75	300-8759-2-ND	945.00/M	CS325H-40.000MEDQ-UT
44.000	±10ppm	±20ppm	10pF	300-8760-1-ND	2.45	2.10	1.75	300-8760-2-ND	945.00/M	CS325H-44.000MEDQ-UT

CITIZEN
Micro HumanTech

CS10 Series Ceramic Surface Mount Crystals

Specifications: • Frequency/Temperature: ±50ppm, -10°C ~ 60°C • Operating Temperature: -40°C ~ 85°C • Drive Level: 50μW Maximum • Frequency Tolerance: ±30ppm • Load Capacitance: 18.0pF • Equivalent Series Resistance (ESR): 50Ω Maximum • Operating Mode: Fundamental

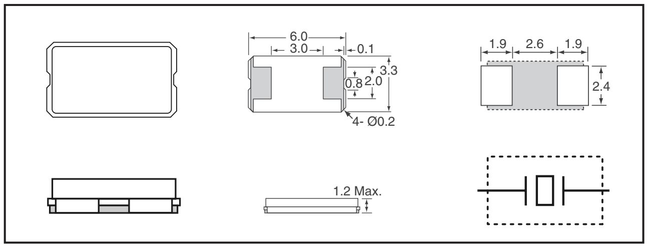

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Citizen Part No.
12.000000	300-8089-1-ND	1.24	1.06	.90	CS10-12.000MABJ-UT

CS20 Series Ceramic Surface Mount Crystals

Specifications:

- Operating Temperature: -40°C ~ 85°C
- Drive Level: 100μW Maximum
- Frequency Tolerance: ±30ppm
- Load Capacitance: 18.0pF
- Frequency/Temperature: ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR Ω Maximum)		
Frequency	**ESR**	**Mode**
3.579545MHz ≤ fo < 3.6864MHz	200	Fundamental
4.0MHz ≤ fo < 5.0MHz	150	
6.0MHz ≤ fo < 8.0MHz	100	
10.0MHz ≤ fo < 12.288MHz	80	
14.7456MHz < fo ≤ 25.0MHz	50	

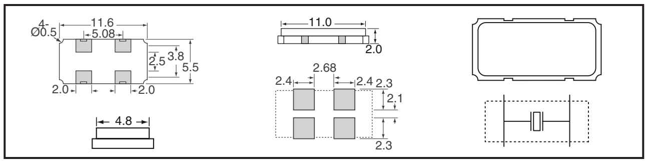

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
3.686400	300-8117-1-ND	1.69	1.47	1.29	300-8117-2-ND	585.00/M	CS20-3.6864MABJ-UT
4.000000	300-8118-1-ND	1.24	1.06	.90	300-8118-2-ND	585.00/M	CS20-4.000MABJ-UT
4.096000	300-8119-1-ND	1.24	1.06	.90	300-8119-2-ND	585.00/M	CS20-4.096MABJ-UT
6.000000	300-8122-1-ND	1.24	1.06	.90	—	—	CS20-6.000MABJ-UT
7.372800	300-8124-1-ND	1.24	1.06	.90	300-8124-2-ND	585.00/M	CS20-7.3728MABJ-UT
11.059200	300-8128-1-ND	1.24	1.06	.90	300-8128-2-ND	585.00/M	CS20-11.0592MABJ-UT
11.289600	300-8129-1-ND	1.69	1.47	1.29	—	—	CS20-11.2896MABJ-UT
12.288000	300-8131-1-ND	1.24	1.06	.90	300-8131-2-ND	585.00/M	CS20-12.288MABJ-UT
20.480000	300-8140-1-ND	1.32	1.13	.96	—	—	CS20-20.480MABJ-UT
22.118400	300-8141-1-ND	1.24	1.06	.90	—	—	CS20-22.1184MABJ-UT

CM250S and CM250C Series Quartz Crystals

Specifications: • Frequency Tolerance: ±30ppm • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -55°C ~ 125°C • Load Capacitance: 12.5pF • Shunt Capacitance: .8pF ~ 1.7pF • Drive Level: 1μW Maximum • Aging (First Year): ±5ppm Maximum

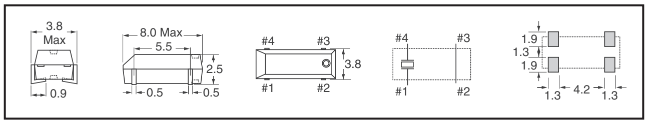

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
CM250S							
40.000	300-8310-1-ND◆	1.38	1.18	1.00	—	—	CM250S-40.000KAZF-UT
60.000	300-2018-1-ND	1.65	1.41	1.20	300-2018-2-ND	750.00/M	CM250S60.000KAZFT
60.000	300-8311-1-ND◆	1.38	1.18	1.00	—	—	CM250S-60.000KAZF-UT
65.536	300-8312-1-ND◆	1.65	1.41	1.20	300-8312-2-ND◆	750.00/M	CM250S-65.536KAZF-UT
75.000	300-8313-1-ND◆	1.38	1.18	1.00	300-8313-2-ND◆	625.00/M	CM250S-75.000KAZF-UT
76.800	300-8314-1-ND◆	1.38	1.18	1.00	300-8314-2-ND◆	625.00/M	CM250S-76.800KAZF-UT
NEW! CM250C — RoHS Compliant NEW!							
32.000	300-8744-1-ND	1.88	1.63	1.43	300-8744-2-ND	675.00/M	CM250C-32.000KAZF-UT
40.000	300-8745-1-ND	1.88	1.63	1.43	300-8745-2-ND	675.00/M	CM250C-40.000KAZF-UT
60.000	300-8746-1-ND	1.88	1.63	1.43	300-8746-2-ND	675.00/M	CM250C-60.000KAZF-UT
76.800	300-8747-1-ND	1.88	1.63	1.43	300-8747-2-ND	675.00/M	CM250C-76.800KAZF-UT
96.000	300-8748-1-ND	1.88	1.63	1.43	300-8748-2-ND	675.00/M	CM250C-96.000KAZF-UT
100.000	300-8743-1-ND	1.88	1.63	1.43	300-8743-2-ND	675.00/M	CM250C-100.000KAZF-UT

◆ *RoHS Compliant*

CM309S Series Plastic Surface Mount Crystals

Specifications:

- Operating Temperature: -40°C ~ 85°C
- Drive Level: 100μW Maximum
- Load Capacitance: 18.0pF
- Frequency/Temperature: ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR, R1)	
Frequency	**ESR (Ω Max.)**
3.579545MHz ≤ fo < 3.6864MHz	200
4MHz ≤ fo < 5.5296MHz	150
6MHz ≤ fo < 9.6MHz	100
10MHz ≤ fo < 29.4912MHz	50
32MHz ≤ fo < 33.8688MHz	100
36MHz ≤ fo ≤ 66.6666MHz	80

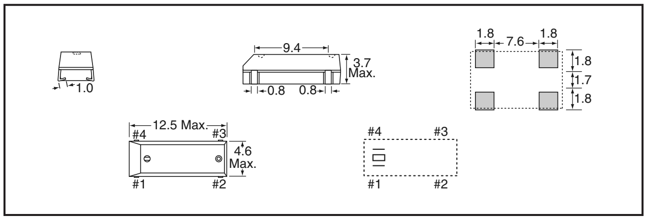

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
8.000156	300-2038-1-ND	1.10	.94	.80	—	—	CM309S8.000156MABJTR
9.600000	300-2041-1-ND	1.10	.94	.80	—	—	CM309S9.600MABJTR
10.240000	300-8052-1-ND	1.10	.94	.80	300-8052-2-ND	520.00	CM309S10.240MABJTR
12.352000	300-2042-1-ND	1.10	.94	.80	300-2042-2-ND	520.00	CM309S12.352MABJTR
16.000312	300-2045-1-ND	1.10	.94	.80	300-2045-2-ND	520.00	CM309S16.000312MABJTR
16.257000	300-2046-1-ND	1.10	.94	.80	300-2046-2-ND	520.00	CM309S16.257MABJTR
16.934400	300-2048-1-ND	1.10	.94	.80	300-2048-2-ND	520.00	CM309S16.9344MABJTR
17.734475	300-2049-1-ND	1.10	.94	.80	—	—	CM309S17.734475MABJTR
18.869000	300-2051-1-ND	1.10	.94	.80	300-2051-2-ND	520.00	CM309S18.869MABJTR
19.660800	300-8065-1-ND	1.10	.94	.80	300-8065-2-ND	520.00	CM309S19.6608MABJTR
25.175000	300-2053-1-ND	1.10	.94	.80	—	—	CM309S25.175MABJTR
32.000000	300-8076-1-ND	1.10	.94	.80	—	—	CM309S32.000MABJTR
32.768000	300-8077-1-ND	1.10	.94	.80	300-8077-2-ND	520.00	CM309S32.768MABJTR
33.000000	300-8078-1-ND	1.10	.94	.80	—	—	CM309S33.000MABJTR
33.868800	300-2056-1-ND	1.10	.94	.80	300-2056-2-ND	520.00	CM309S33.8688MABJTR
36.000000	300-8080-1-ND	1.10	.94	.80	—	—	CM309S36.000MABJTR
48.000000	300-8082-1-ND	1.10	.94	.80	300-8082-2-ND	520.00	CM309S48.000MABJTR
53.125000	300-8085-1-ND	1.10	.94	.80	—	—	CM309S53.125MABJTR
60.000000	300-8086-1-ND	1.10	.94	.80	—	—	CM309S60.000MABJTR
66.666600	300-8088-1-ND	1.10	.94	.80	—	—	CM309S66.6666MABJTR
RoHS Compliant							
3.579545	300-8634-1-ND	1.28	1.11	.97	300-8634-2-ND	476.00	CM309S-3.579545MABJ-UT
3.686400	300-8635-1-ND	1.28	1.11	.97	300-8635-2-ND	476.00	CM309S-3.6864MABJ-UT
4.000000	300-8636-1-ND	1.28	1.11	.97	300-8636-2-ND	476.00	CM309S-4.000MABJ-UT
4.096000	300-8637-1-ND	1.28	1.11	.97	300-8637-2-ND	476.00	CM309S-4.096MABJ-UT
4.800000	300-8318-1-ND	1.28	1.11	.97	300-8318-2-ND	476.00	CM309S-4.800MABJ-UT
4.915200	300-8638-1-ND	1.28	1.11	.97	300-8638-2-ND	476.00	CM309S-4.9152MABJ-UT
5.120000	300-8319-1-ND	.96	.83	.70	—	—	CM309S-5.120MABJ-UT
6.000000	300-8639-1-ND	1.28	1.11	.97	300-8639-2-ND	476.00	CM309S-6.000MABJ-UT
6.144000	300-8640-1-ND	1.28	1.11	.97	300-8640-2-ND	476.00	CM309S-6.144MABJ-UT
7.372800	300-8641-1-ND	1.28	1.11	.97	300-8641-2-ND	476.00	CM309S-7.3728MABJ-UT
8.000000	300-8642-1-ND	1.28	1.11	.97	300-8642-2-ND	476.00	CM309S-8.000MABJ-UT
8.000156	300-8321-1-ND	1.31	1.14	1.00	300-8321-2-ND	490.00	CM309S-8.000156MABJ-UT
8.192000	300-8322-1-ND	1.28	1.11	.97	300-8322-2-ND	476.00	CM309S-8.192MABJ-UT
9.216000	300-8323-1-ND	1.28	1.11	.97	300-8323-2-ND	476.00	CM309S-9.216MABJ-UT
10.000000	300-8643-1-ND	1.28	1.11	.97	300-8643-2-ND	476.00	CM309S-10.000MABJ-UT
10.240000	300-8644-1-ND	1.28	1.11	.97	300-8644-2-ND	476.00	CM309S-10.240MABJ-UT
11.059200	300-8645-1-ND	1.28	1.11	.97	300-8645-2-ND	476.00	CM309S-11.0592MABJ-UT
12.000000	300-8646-1-ND	1.28	1.11	.97	300-8646-2-ND	476.00	CM309S-12.000MABJ-UT
12.288000	300-8647-1-ND	1.28	1.11	.97	300-8647-2-ND	476.00	CM309S-12.288MABJ-UT
12.352000	300-8324-1-ND	1.31	1.14	1.00	300-8324-2-ND	490.00	CM309S-12.352MABJ-UT
12.500000	300-8325-1-ND	1.28	1.11	.97	300-8325-2-ND	476.00	CM309S-12.500MABJ-UT
13.500000	300-8326-1-ND	1.28	1.11	.97	300-8326-2-ND	476.00	CM309S-13.500MABJ-UT
14.318180	300-8648-1-ND	1.28	1.11	.97	300-8648-2-ND	476.00	CM309S-14.31818MABJ-UT
14.745600	300-8649-1-ND	1.28	1.11	.97	300-8649-2-ND	476.00	CM309S-14.7456MABJ-UT
15.000000	300-8650-1-ND	.94	.80	.68	—	—	CM309S-15.000MABJ-UT
16.000000	300-8651-1-ND	1.28	1.11	.97	300-8651-2-ND	476.00	CM309S-16.000MABJ-UT
16.384000	300-8327-1-ND	1.28	1.11	.97	300-8327-2-ND	476.00	CM309S-16.384MABJ-UT
16.934400	300-8328-1-ND	1.31	1.14	1.00	300-8328-2-ND	490.00	CM309S-16.9344MABJ-UT
17.734475	300-8329-1-ND	1.31	1.14	1.00	300-8329-2-ND	490.00	CM309S-17.734475MABJ-UT
18.000000	300-8330-1-ND	1.28	1.11	.97	300-8330-2-ND	476.00	CM309S-18.000MABJ-UT
18.432000	300-8652-1-ND	1.28	1.11	.97	300-8652-2-ND	476.00	CM309S-18.432MABJ-UT
19.660800	300-8653-1-ND	1.28	1.11	.97	300-8653-2-ND	476.00	CM309S-19.6608MABJ-UT
20.000000	300-8654-1-ND	1.28	1.11	.97	300-8654-2-ND	476.00	CM309S-20.000MABJ-UT
22.118400	300-8655-1-ND	1.28	1.11	.97	300-8655-2-ND	476.00	CM309S-22.1184MABJ-UT
24.000000	300-8656-1-ND	1.28	1.11	.97	300-8656-2-ND	476.00	CM309S-24.000MABJ-UT
24.576000	300-8331-1-ND	1.28	1.11	.97	300-8331-2-ND	476.00	CM309S-24.576MABJ-UT
25.000000	300-8657-1-ND	1.28	1.11	.97	300-8657-2-ND	476.00	CM309S-25.000MABJ-UT
25.175000	300-8332-1-ND	.96	.83	.70	—	—	CM309S-25.175MABJ-UT
27.000000	300-8658-1-ND	1.28	1.11	.97	300-8658-2-ND	476.00	CM309S-27.000MABJ-UT
28.322000	300-8333-1-ND	1.28	1.11	.97	300-8333-2-ND	476.00	CM309S-28.322MABJ-UT
29.491200	300-8659-1-ND	1.28	1.11	.97	300-8659-2-ND	476.00	CM309S-29.4912MABJ-UT
32.000000	300-8660-1-ND	1.31	1.14	1.00	300-8660-2-ND	490.00	CM309S-32.000MABJ-UT
40.000000	300-8300-1-ND	1.28	1.11	.97	300-8300-2-ND	476.00	CM309S-40.000MABJ-UT
48.000000	300-8662-1-ND	.94	.80	.68	300-8662-2-ND	442.00	CM309S-48.000MABJ-UT

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CITIZEN Micro HumanTech

CM309 Series Crystals

Digi-Reel®

Specifications:

- Frequency Tolerance: ±30ppm
- Frequency/Temperature: ±50ppm, -10°C ~ 60°C
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Load Capacitance: 18.0pF
- Shunt Capacitance: 7pF
- Drive Level: 50µW ~ 100µW
- Insulation Resistance: 500MΩ Minimum
- Aging (First Year): ±5ppm Maximum

Equivalent Series Resistance (ESR, R1)		
Frequency	**ESR**	**Mode**
4.096MHz ≤ fo < 5.12MHz	150	Fundamental
7.68MHz ≤ fo < 9.8304MHz	100	
10.24MHz ≤ fo ≤ 28.63636MHz	50	
32MHz < fo < 33.8688MHz	100	3rd OT
40MHz ≤ fo < 66.6666MHz	80	

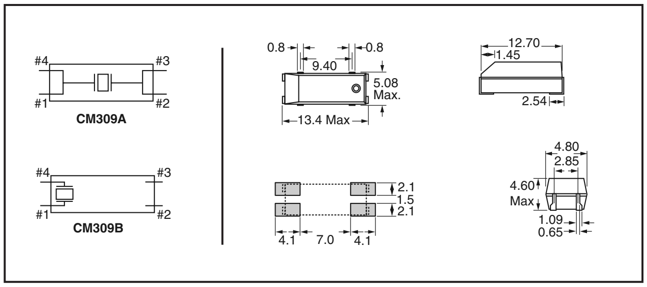

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 1,000	Citizen Part No.
CM309A						
5.120000	300-4007-1-ND	1.10	.94	.80	—	CM309A5.120MABJT
7.680000	300-4012-1-ND	1.10	.94	.80	—	CM309A7.680MABJT
8.000156	300-4014-1-ND	1.10	.94	.80	520.00	CM309A8.000156MABJT
9.830400	300-4018-1-ND	1.10	.94	.80	520.00	CM309A9.8304MABJT
12.352000	300-4026-1-ND	1.10	.94	.80	520.00	CM309A12.352MABJT
12.500000	300-4027-1-ND	1.10	.94	.80	520.00	CM309A12.500MABJT
15.000000	300-4031-1-ND	1.10	.94	.80	520.00	CM309A15.000MABJT
15.360000	300-4032-1-ND	1.10	.94	.80	—	CM309A15.360MABJT
16.000312	300-4034-1-ND	1.10	.94	.80	—	CM309A16.000312MABJT
16.257000	300-4035-1-ND	1.10	.94	.80	520.00	CM309A16.257MABJT
25.175000	300-4050-1-ND	1.10	.94	.80	—	CM309A25.175MABJT
28.000000	300-4052-1-ND	1.10	.94	.80	520.00	CM309A28.000MABJT
32.000000	300-4057-1-ND	1.10	.94	.80	520.00	CM309A32.000MABJT
32.768000	300-4058-1-ND	1.10	.94	.80	520.00	CM309A32.768MABJT
33.000000	300-4059-1-ND	1.10	.94	.80	—	CM309A33.000MABJT
33.333300	300-4060-1-ND	1.10	.94	.80	520.00	CM309A33.3333MABJT
33.868800	300-4061-1-ND	1.10	.94	.80	520.00	CM309A33.8688MABJT
40.000000	300-4063-1-ND	1.10	.94	.80	520.00	CM309A40.000MABJT
49.152000	300-4065-1-ND	1.10	.94	.80	—	CM309A49.152MABJT
50.000000	300-4066-1-ND	1.10	.94	.80	520.00	CM309A50.000MABJT
53.125000	300-4067-1-ND	1.10	.94	.80	520.00	CM309A53.125MABJT
60.000000	300-4068-1-ND	1.10	.94	.80	520.00	CM309A60.000MABJT
64.000000	300-4069-1-ND	1.10	.94	.80	520.00	CM309A64.000MABJT
66.666600	300-4070-1-ND	1.10	.94	.80	520.00	CM309A66.6666MABJT
CM309B						
7.680000	300-4112-1-ND	1.10	.94	.80	—	CM309B7.680MABJT
8.000156	300-4114-1-ND	1.10	.94	.80	—	CM309B8.000156MABJT
9.600000	300-4117-1-ND	1.10	.94	.80	—	CM309B9.600MABJT
10.240000	300-4120-1-ND	1.10	.94	.80	520.00	CM309B10.240MABJT
11.000000	300-4121-1-ND	1.10	.94	.80	520.00	CM309B11.000MABJT
12.352000	300-4126-1-ND	1.10	.94	.80	520.00	CM309B12.352MABJT
12.500000	300-4127-1-ND	1.10	.94	.80	520.00	CM309B12.500MABJT
15.360000	300-4132-1-ND	1.10	.94	.80	520.00	CM309B15.360MABJT
16.000312	300-4134-1-ND	1.10	.94	.80	520.00	CM309B16.000312MABJT
16.257000	300-4135-1-ND	1.10	.94	.80	520.00	CM309B16.257MABJT
18.000000	300-4140-1-ND	1.10	.94	.80	—	CM309B18.000MABJT
18.869000	300-4142-1-ND	1.10	.94	.80	520.00	CM309B18.869MABJT
20.480000	300-4145-1-ND	1.10	.94	.80	520.00	CM309B20.480MABJT
24.000000	300-4147-1-ND	1.10	.94	.80	520.00	CM309B24.000MABJT
25.175000	300-4150-1-ND	1.10	.94	.80	—	CM309B25.175MABJT
28.000000	300-4152-1-ND	1.10	.94	.80	—	CM309B28.000MABJT
32.000000	300-4157-1-ND	1.10	.94	.80	520.00	CM309B32.000MABJT
32.768000	300-4158-1-ND	1.10	.94	.80	—	CM309B32.768MABJT
33.000000	300-4159-1-ND	1.10	.94	.80	—	CM309B33.000MABJT
33.868800	300-4161-1-ND	1.10	.94	.80	520.00	CM309B33.8688MABJT
48.000000	300-4164-1-ND	1.10	.94	.80	—	CM309B48.000MABJT
49.152000	300-4165-1-ND	1.10	.94	.80	—	CM309B49.152MABJT
50.000000	300-4166-1-ND	1.10	.94	.80	520.00	CM309B50.000MABJT
53.125000	300-4167-1-ND	1.10	.94	.80	520.00	CM309B53.125MABJT
60.000000	300-4168-1-ND	1.10	.94	.80	520.00	CM309B60.000MABJT
64.000000	300-4169-1-ND	1.10	.94	.80	—	CM309B64.000MABJT
66.666600	300-4170-1-ND	1.10	.94	.80	520.00	CM309B66.6666MABJT

* For Tape and Reel part number, change 1-ND to 2-ND.

HCM49 Series Surface Mount Crystals

Digi-Reel®

Specifications:

- Frequency Tolerance: ±30ppm
- Frequency Stability: ±50ppm, -10°C ~ 60°C
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Load Capacitance: 18.0pF
- Shunt Capacitance: 7pF Maximum
- Drive Level: 100µW • Insulation Resistance: 500MΩ Minimum
- Aging (First Year): ±5ppm Maximum

Equivalent Series Resistance (ESR, R1) (Ω Maximum)	
Frequency	**ESR**
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 30.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100

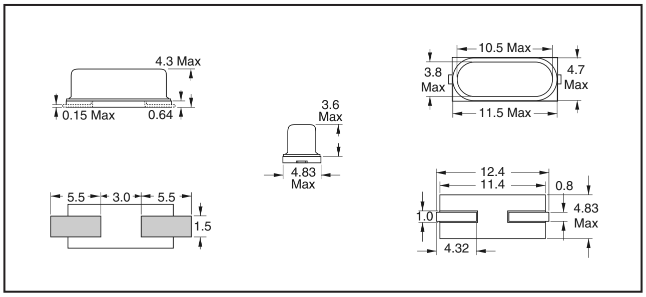

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.433619	300-6107-1-ND	.90	.78	.68	300-6107-2-ND	312.00	HCM49-4.433619MABJT
5.990400	300-6111-1-ND	.66	.57	.48	300-6111-2-ND	312.00	HCM49-5.9904MABJT
12.000393	300-6128-1-ND	.66	.57	.48	—	—	HCM49-12.000393MABJT
32.000000	300-6153-1-ND	.66	.57	.48	—	—	HCM49-32.000MABJT
33.868800	300-6156-1-ND	.90	.78	.68	300-6156-2-ND	312.00	HCM49-33.8688MABJT
49.152000	300-6159-1-ND	.66	.57	.48	—	—	HCM49-49.152MABJT
RoHS Compliant							
3.579545	300-8524-1-ND	.75	.65	.57	300-8524-2-ND	280.00	HCM49-3.579545MABJ-UT
3.686400	300-8525-1-ND	.75	.65	.57	300-8525-2-ND	280.00	HCM49-3.6864MABJ-UT
4.000000	300-8526-1-ND	.75	.65	.57	300-8526-2-ND	280.00	HCM49-4.000MABJ-UT
4.032000	300-8527-1-ND	.75	.65	.57	300-8527-2-ND	280.00	HCM49-4.032MABJ-UT
4.096000	300-8528-1-ND	.75	.65	.57	300-8528-2-ND	280.00	HCM49-4.096MABJ-UT
4.194304	300-8529-1-ND	.75	.65	.57	300-8529-2-ND	280.00	HCM49-4.194304MABJ-UT
4.433619	300-8530-1-ND	.55	.47	.40	300-8530-2-ND	260.00	HCM49-4.433619MABJ-UT
4.915200	300-8531-1-ND	.75	.65	.57	300-8531-2-ND	280.00	HCM49-4.9152MABJ-UT
5.000000	300-8532-1-ND	.75	.65	.57	300-8532-2-ND	280.00	HCM49-5.000MABJ-UT
5.068800	300-8533-1-ND	.75	.65	.57	300-8533-2-ND	280.00	HCM49-5.0688MABJ-UT
5.990400	300-8534-1-ND	.75	.65	.57	300-8534-2-ND	280.00	HCM49-5.9904MABJ-UT
6.000000	300-8535-1-ND	.75	.65	.57	300-8535-2-ND	280.00	HCM49-6.000MABJ-UT
6.144000	300-8536-1-ND	.75	.65	.57	300-8536-2-ND	280.00	HCM49-6.144MABJ-UT
6.500000	300-8537-1-ND	.75	.65	.57	300-8537-2-ND	280.00	HCM49-6.500MABJ-UT
7.372800	300-8538-1-ND	.75	.65	.57	300-8538-2-ND	280.00	HCM49-7.3728MABJ-UT
7.680000	300-8539-1-ND	.75	.65	.57	300-8539-2-ND	280.00	HCM49-7.680MABJ-UT
8.000000	300-8540-1-ND	.75	.65	.57	300-8540-2-ND	280.00	HCM49-8.000MABJ-UT
9.000000	300-8541-1-ND	.75	.65	.57	300-8541-2-ND	280.00	HCM49-9.000MABJ-UT
9.830400	300-8542-1-ND	.75	.65	.57	300-8542-2-ND	280.00	HCM49-9.8304MABJ-UT
10.000000	300-8543-1-ND	.75	.65	.57	300-8543-2-ND	280.00	HCM49-10.000MABJ-UT
10.240000	300-8544-1-ND	.75	.65	.57	300-8544-2-ND	280.00	HCM49-10.240MABJ-UT
11.000000	300-8545-1-ND	.75	.65	.57	300-8545-2-ND	280.00	HCM49-11.000MABJ-UT
11.059200	300-8546-1-ND	.75	.65	.57	300-8546-2-ND	280.00	HCM49-11.0592MABJ-UT
11.520000	300-8547-1-ND	.75	.65	.57	300-8547-2-ND	280.00	HCM49-11.520MABJ-UT
12.000000	300-8548-1-ND	.75	.65	.57	300-8548-2-ND	280.00	HCM49-12.000MABJ-UT
12.000393	300-8549-1-ND	.75	.65	.57	300-8549-2-ND	280.00	HCM49-12.000393MABJ-UT
12.288000	300-8550-1-ND	.75	.65	.57	300-8550-2-ND	280.00	HCM49-12.288MABJ-UT
13.500000	300-8579-1-ND	.75	.65	.57	300-8579-2-ND	280.00	HCM49-13.500MABJ-UT
14.318180	300-8551-1-ND	.75	.65	.57	300-8551-2-ND	280.00	HCM49-14.31818MABJ-UT
14.745600	300-8552-1-ND	.75	.65	.57	300-8552-2-ND	280.00	HCM49-14.7456MABJ-UT
15.000000	300-8553-1-ND	.75	.65	.57	300-8553-2-ND	280.00	HCM49-15.000MABJ-UT
15.360000	300-8554-1-ND	.75	.65	.57	300-8554-2-ND	280.00	HCM49-15.360MABJ-UT
16.000000	300-8555-1-ND	.75	.65	.57	300-8555-2-ND	280.00	HCM49-16.000MABJ-UT
16.000312	300-8556-1-ND	.75	.65	.57	300-8556-2-ND	280.00	HCM49-16.000312MABJ-UT
16.257000	300-8557-1-ND	.75	.65	.57	300-8557-2-ND	280.00	HCM49-16.257MABJ-UT
16.384000	300-8558-1-ND	.75	.65	.57	300-8558-2-ND	280.00	HCM49-16.384MABJ-UT
17.734475	300-8559-1-ND	.75	.65	.57	300-8559-2-ND	280.00	HCM49-17.734475MABJ-UT
18.000000	300-8560-1-ND	.75	.65	.57	300-8560-2-ND	280.00	HCM49-18.000MABJ-UT

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HCM49 Series Surface Mount Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
18.432000	300-8561-1-ND	.75	.65	.57	300-8561-2-ND	280.00	HCM49-18.432MABJ-UT
19.660800	300-8562-1-ND	.75	.65	.57	300-8562-2-ND	280.00	HCM49-19.6608MABJ-UT
20.000000	300-8563-1-ND	.75	.65	.57	300-8563-2-ND	280.00	HCM49-20.000MABJ-UT
22.118400	300-8565-1-ND	.75	.65	.57	300-8565-2-ND	280.00	HCM49-22.1184MABJ-UT
24.000000	300-8566-1-ND	.75	.65	.57	300-8566-2-ND	280.00	HCM49-24.000MABJ-UT
24.000140	300-8567-1-ND	.55	.47	.40	—	—	HCM49-24.00014MABJ-UT
24.576000	300-8568-1-ND	.75	.65	.57	300-8568-2-ND	280.00	HCM49-24.576MABJ-UT
25.000000	300-8569-1-ND	.75	.65	.57	300-8569-2-ND	280.00	HCM49-25.000MABJ-UT
25.175000	300-8570-1-ND	.75	.65	.57	300-8570-2-ND	280.00	HCM49-25.175MABJ-UT
27.000000	300-8571-1-ND	.75	.65	.57	300-8571-2-ND	280.00	HCM49-27.000MABJ-UT
28.636360	300-8572-1-ND	.75	.65	.57	300-8572-2-ND	280.00	HCM49-28.63636MABJ-UT
32.000000	300-8573-1-ND	.55	.47	.40	300-8573-2-ND	260.00	HCM49-32.000MABJ-UT
33.868800	300-8574-1-ND	.55	.47	.40	300-8574-2-ND	260.00	HCM49-33.8688MABJ-UT
40.000000	300-8575-1-ND	.75	.65	.57	300-8575-2-ND	280.00	HCM49-40.000MABJ-UT
48.000000	300-8576-1-ND	.75	.65	.57	300-8576-2-ND	280.00	HCM49-48.000MABJ-UT
49.152000	300-8577-1-ND	.75	.65	.57	300-8577-2-ND	280.00	HCM49-9.152MABJ-UT
50.000000	300-8578-1-ND	.55	.47	.40	300-8578-2-ND	260.00	HCM49-50.000MABJ-UT

CMR250T Series Crystals

Specifications:

- Frequency Tolerance: ±30ppm
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Load Capacitance: 12.5pF
- Shunt Capacitance: .8pF ~ .7pF
- Drive Level: 1µW Max.
- Insulation Resistance: 500MΩ Min.
- Aging (First Year): ±5ppm Max.

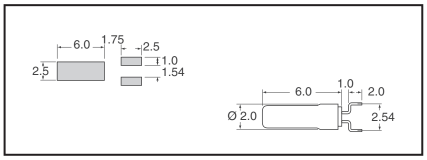

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
40.000	300-2058-1-ND	1.38	1.18	1.00	—	—	CMR250TB40.000KAZFTR
65.535	300-2060-1-ND	1.38	1.18	1.00	300-2060-2-ND	650.00/M	CMR250TB65.535KAZFTR
75.000	300-2061-1-ND	1.38	1.18	1.00	300-2061-2-ND	650.00/M	CMR250TB75.000KAZFTR
96.000	300-2063-1-ND	1.38	1.18	1.00	—	—	CMR250TB96.000KAZFTR
RoHS Compliant							
60.000	300-8335-1-ND	1.38	1.18	1.00	300-8335-2-ND	650.00/M	CMR250T60.000KAZF-UT
75.000	300-8337-1-ND	1.75	1.50	1.13	300-8337-2-ND	650.00/M	CMR250T75.000KAZF-UT

CMR309T Series Crystals

Specifications:

- Frequency/Temperature: ±50ppm, -10°C ~ 60°C
- Aging (first year): ±5ppm max. @ 25°C
- Frequency Tolerance: ±30ppm
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Load Capacitance: 18.0pF
- Shunt Capacitance: 5pF
- Drive Level: 100µW
- Insulation Resistance: 500MΩ Min.
- Operating Mode: Fundamental: 4.096MHz to 27.000MHz; Third Overtone: 32.000MHz to 66.6660MHz

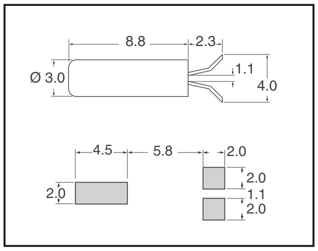

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
5.00000	300-2072-1-ND	.77	.66	.56	—	—	CMR309T5.000MABJTR
32.00000	300-2089-1-ND	.77	.66	.56	—	—	CMR309T32.000MABJTR
40.00000	300-2090-1-ND	.77	.66	.56	—	—	CMR309T40.000MABJTR
48.00000	300-2091-1-ND	.77	.66	.56	—	—	CMR309T48.000MABJTR
49.15200	300-2092-1-ND	.77	.66	.56	—	—	CMR309T49.152MABJTR
50.00000	300-2093-1-ND	.77	.66	.56	—	—	CMR309T50.000MABJTR
60.00000	300-2094-1-ND	.77	.66	.56	300-2094-2-ND	364.00	CMR309T60.000MABJTR
RoHS Compliant							
4.09600	300-8345-1-ND	.90	.78	.69	300-8345-2-ND	336.00	CMR309T-4.096MABJ-UT
4.91520	300-8346-1-ND	.90	.78	.69	300-8346-2-ND	336.00	CMR309T-4.9152MABJ-UT
5.00000	300-8347-1-ND	.90	.78	.69	300-8347-2-ND	336.00	CMR309T-5.000MABJ-UT
6.00000	300-8348-1-ND	.90	.78	.69	300-8348-2-ND	336.00	CMR309T-6.000MABJ-UT
7.37280	300-8349-1-ND	.90	.78	.69	300-8349-2-ND	336.00	CMR309T-7.3728MABJ-UT
8.00000	300-8350-1-ND	.90	.78	.69	300-8350-2-ND	336.00	CMR309T-8.000MABJ-UT
10.00000	300-8351-1-ND	.90	.78	.69	300-8351-2-ND	336.00	CMR309T-10.000MABJ-UT
11.05920	300-8352-1-ND	.90	.78	.69	300-8352-2-ND	336.00	CMR309T-11.0592MABJ-UT
12.00000	300-8353-1-ND	.90	.78	.69	300-8353-2-ND	336.00	CMR309T-12.000MABJ-UT
12.28800	300-8354-1-ND	.90	.78	.69	300-8354-2-ND	336.00	CMR309T-12.288MABJ-UT
14.31818	300-8355-1-ND	.66	.57	.48	300-8355-2-ND	312.00	CMR309T-14.31818MABJ-UT
16.00000	300-8356-1-ND	.90	.78	.69	300-8356-2-ND	336.00	CMR309T-16.000MABJ-UT
16.38400	300-8357-1-ND	.66	.57	.48	300-8357-2-ND	312.00	CMR309T-16.384MABJ-UT
18.43200	300-8358-1-ND	.90	.78	.69	300-8358-2-ND	336.00	CMR309T-18.432MABJ-UT
22.11840	300-8359-1-ND	1.05	.91	.80	300-8359-2-ND	392.00	CMR309T-22.1184MABJ-UT
24.00000	300-8360-1-ND	1.05	.91	.80	300-8360-2-ND	392.00	CMR309T-24.000MABJ-UT
24.57600	300-8361-1-ND	1.05	.91	.80	300-8361-2-ND	392.00	CMR309T-24.576MABJ-UT
27.00000	300-8362-1-ND	1.05	.91	.80	300-8362-2-ND	392.00	CMR309T-27.000MABJ-UT
40.00000	300-8363-1-ND	.77	.66	.56	300-8363-2-ND	364.00	CMR309T-40.000MABJ-UT
48.00000	300-8364-1-ND	.77	.66	.56	300-8364-2-ND	364.00	CMR309T-48.000MABJ-UT
50.00000	300-8365-1-ND	.77	.66	.56	300-8365-2-ND	364.00	CMR309T-50.000MABJ-UT

CMR310T Series Crystals

Specifications:

- Frequency/Temperature: ±50ppm, -10°C ~ 60°C
- Aging (first year): ±5ppm max. @ 25°C
- Frequency Tolerance: ±30ppm
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Load Capacitance: 18.0pF
- Shunt Capacitance: 5pF
- Drive Level: 100µW
- Insulation Resistance: 500MΩ Min.

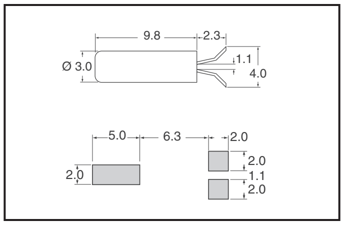

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
3.579545	300-8342-1-ND	.90	.78	.69	300-8342-2-ND	336.00	CMR310T-3.579545MABJ-UT
3.686400	300-8343-1-ND	.90	.78	.69	300-8343-2-ND	336.00	CMR310T-3.6864MABJ-UT
4.000000	300-8344-1-ND	.90	.78	.69	300-8344-2-ND	336.00	CMR310T-4.000MABJ-UT

Cylinder Type Crystals

Specifications:

• Frequency Tolerance: CFS145: ±20ppm; CFS206-32.768KD: ±20ppm; CFS206-32.768KE: ±10ppm; CFS206-32.768KH: ±5ppm; CFV and CSA Series: ±30ppm • Frequency Temperature Characteristics: CSA Series: ±50ppm (-10°C ~ 60°C) • Operating Temperature Range: -20°C ~ 70°C • Storage Temperature Range: -40°C ~ 85°C • Drive Level: CFS and CFV Series: 1µW Max.; CSA Series: 100µW • Aging (first year): CFS Series: ±3ppm Max.; CFV and CSA Series: ±5ppm Max.

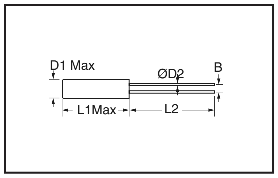

Series	Dimensions (mm) L1 max.	L2	D1 max.	D2	B
CFS145	5.1	4.3	1.5	0.2	0.45
CFS206	6.2	10	2.1	0.26	0.7
CFV206	6.2	10	2.1	0.26	0.7
CSA310	10.5	10	3.2	0.32	1.1
CSA309	9	10	3.2	0.32	1.1

Series	Frequency	Load Cap. (pF)	Shunt Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CSA309	10.240000MHz	18.0	5.0	300-5017-ND	.63	.55	.46	CSA309-10.240MABJ
	12.352000MHz	18.0	5.0	300-5023-ND	.63	.55	.46	CSA309-12.352MABJ
	16.000312MHz	18.0	5.0	300-5031-ND	.63	.55	.46	CSA309-16.000312MABJ
	16.257000MHz	18.0	5.0	300-5032-ND	.63	.55	.46	CSA309-16.257MABJ
	25.175000MHz	18.0	5.0	300-5047-ND	.63	.55	.46	CSA309-25.175MABJ
	28.000000MHz	18.0	5.0	300-5049-ND	.63	.55	.46	CSA309-28.000MABJ
	33.000000MHz	18.0	5.0	300-5056-ND	.63	.55	.46	CSA309-33.000MABJ
	40.000000MHz	18.0	5.0	300-5060-ND	.63	.55	.46	CSA309-40.000MABJ
	53.125000MHz	18.0	5.0	300-5064-ND	.63	.55	.46	CSA309-53.125MABJ
RoHS Compliant								
CFS145	32.768000kHz	12.5	1.0	300-8304-ND	1.58	1.35	1.13	CFS145-32.768KDZF-UB
CFS206	32.768000kHz	6.0	1.35	300-8301-ND	.28	.24	.20	CFS206-32.768KDZB-UB
	32.768000kHz	12.5	1.35	300-8303-ND	.28	.24	.20	CFS206-32.768KDZF-UB
	32.768000kHz	6.0	1.35	300-8761-ND✔	.49	.42	.35	CFS206-32.768KEZB-UB
	32.768000kHz	12.5	1.35	300-8762-ND✔	.49	.42	.35	CFS206-32.768KEZF-UB
	32.768000kHz	12.5	1.35	300-8763-ND✔	.70	.60	.50	CFS206-32.768KHZF-UB

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(Continued)

Cylinder Type Crystals *(Cont.)*

Series	Frequency	Load Cap. (pF)	Shunt Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CFV206	32.000000kHz	12.5	0.8 ~ 1.7	300-8402-ND	1.05	.90	.75	CFV206-32.000KAZF-UB
	36.000000kHz	12.5	0.8 ~ 1.7	300-8764-ND✔	1.05	.90	.75	CFV206-36.000KAZF-UB
	38.400000kHz	12.5	0.8 ~ 1.7	300-8765-ND✔	1.05	.90	.75	CFV206-38.400KAZF-UB
	40.000000kHz	12.5	0.8 ~ 1.7	300-8403-ND	1.05	.90	.75	CFV206-40.000KAZF-UB
	60.000000kHz	12.5	0.8 ~ 1.7	300-8404-ND	.83	.71	.60	CFV206-60.000KAZF-UB
	65.536000kHz	12.5	0.8 ~ 1.7	300-8405-ND	1.05	.90	.75	CFV206-65.536KAZF-UB
	75.000000kHz	12.5	0.8 ~ 1.7	300-8406-ND	.83	.71	.60	CFV206-75.000KAZF-UB
	76.800000kHz	12.5	0.8 ~ 1.7	300-8407-ND	1.05	.90	.75	CFV206-76.800KAZF-UB
	77.503000kHz	12.5	0.8 ~ 1.7	300-8408-ND	1.40	1.20	1.00	CFV206-77.503KAZF-UB
	96.000000kHz	12.5	0.8 ~ 1.7	300-8409-ND	1.05	.90	.75	CFV206-96.000KAZF-UB
	100.000000kHz	12.5	0.8 ~ 1.7	300-8410-ND	1.05	.90	.75	CFV206-100.000KAZF-UB
CSA309	4.096000MHz	18.0	5.0	300-8412-ND	.63	.54	.45	CSA309-4.096MABJ-UB
	4.800000MHz	18.0	5.0	300-8413-ND	.81	.69	.58	CSA309-4.800MABJ-UB
	4.915200MHz	18.0	5.0	300-8414-ND	.63	.54	.45	CSA309-4.9152MABJ-UB
	5.120000MHz	18.0	5.0	300-8415-ND	.81	.69	.58	CSA309-5.120MABJ-UB
	5.529600MHz	18.0	5.0	300-8416-ND	.81	.69	.58	CSA309-5.5296MABJ-UB
	6.000000MHz	18.0	5.0	300-8417-ND	.63	.54	.45	CSA309-6.000MABJ-UB
	6.144000MHz	18.0	5.0	300-8418-ND	.50	.43	.36	CSA309-6.144MABJ-UB
	7.372800MHz	18.0	5.0	300-8419-ND	.63	.54	.45	CSA309-7.3728MABJ-UB
	7.680000MHz	18.0	5.0	300-8420-ND	.50	.43	.36	CSA309-7.680MABJ-UB
	8.000000MHz	18.0	5.0	300-8421-ND	.63	.54	.45	CSA309-8.000MABJ-UB
	8.192000MHz	18.0	5.0	300-8422-ND	.63	.54	.45	CSA309-8.192MABJ-UB
	9.216000MHz	18.0	5.0	300-8423-ND	.81	.69	.58	CSA309-9.216MABJ-UB
	9.600000MHz	18.0	5.0	300-8424-ND	.81	.69	.58	CSA309-9.600MABJ-UB
	9.830400MHz	18.0	5.0	300-8425-ND	.63	.54	.45	CSA309-9.8304MABJ-UB
	10.000000MHz	18.0	5.0	300-8426-ND	.63	.54	.45	CSA309-10.000MABJ-UB
	10.240000MHz	18.0	5.0	300-8427-ND	.50	.43	.36	CSA309-10.240MABJ-UB
	11.059200MHz	18.0	5.0	300-8428-ND	.63	.54	.45	CSA309-11.0592MABJ-UB
	11.289600MHz	18.0	5.0	300-8429-ND	.63	.54	.45	CSA309-11.2896MABJ-UB
	12.000000MHz	18.0	5.0	300-8430-ND	.63	.54	.45	CSA309-12.000MABJ-UB
	12.288000MHz	18.0	5.0	300-8431-ND	.50	.43	.36	CSA309-12.288MABJ-UB
	12.500000MHz	18.0	5.0	300-8432-ND	.63	.54	.45	CSA309-12.500MABJ-UB
	13.500000MHz	18.0	5.0	300-8433-ND	.63	.54	.45	CSA309-13.500MABJ-UB
	14.745600MHz	18.0	5.0	300-8435-ND	.63	.54	.45	CSA309-14.7456MABJ-UB
	15.000000MHz	18.0	5.0	300-8436-ND	.50	.43	.36	CSA309-15.000MABJ-UB
	16.000000MHz	18.0	5.0	300-8437-ND	.63	.54	.45	CSA309-16.000MABJ-UB
	16.000312MHz	18.0	5.0	300-8438-ND	.50	.43	.36	CSA309-16.000312MABJ-UB
	16.384000MHz	18.0	5.0	300-8439-ND	.63	.54	.45	CSA309-16.384MABJ-UB
	16.667000MHz	18.0	5.0	300-8440-ND	.81	.69	.58	CSA309-16.667MABJ-UB
	16.934400MHz	18.0	5.0	300-8441-ND	.63	.54	.45	CSA309-16.9344MABJ-UB
	17.734475MHz	18.0	5.0	300-8442-ND	.81	.69	.58	CSA309-17.734475MABJ-UB
	18.000000MHz	18.0	5.0	300-8443-ND	.63	.54	.45	CSA309-18.000MABJ-UB
	18.432000MHz	18.0	5.0	300-8444-ND	.63	.54	.45	CSA309-18.432MABJ-UB
	19.660800MHz	18.0	5.0	300-8445-ND	.50	.43	.36	CSA309-19.6608MABJ-UB
	20.000000MHz	18.0	5.0	300-8446-ND	.63	.54	.45	CSA309-20.000MABJ-UB
	20.480000MHz	18.0	5.0	300-8447-ND	.50	.43	.36	CSA309-20.480MABJ-UB
	22.118400MHz	18.0	5.0	300-8448-ND	.77	.66	.55	CSA309-22.1184MABJ-UB
	24.000000MHz	18.0	5.0	300-8449-ND	.77	.66	.55	CSA309-24.000MABJ-UB
	24.576000MHz	18.0	5.0	300-8450-ND	.61	.52	.44	CSA309-24.576MABJ-UB
	25.000000MHz	18.0	5.0	300-8451-ND	.77	.66	.55	CSA309-25.000MABJ-UB
	27.000000MHz	18.0	5.0	300-8452-ND	.61	.52	.44	CSA309-27.000MABJ-UB
	28.000000MHz	18.0	5.0	300-8453-ND	.81	.69	.58	CSA309-28.000MABJ-UB
	28.322000MHz	18.0	5.0	300-8454-ND	.81	.69	.58	CSA309-28.322MABJ-UB
	28.636360MHz	18.0	5.0	300-8455-ND	.61	.52	.44	CSA309-28.63636MABJ-UB
	29.491200MHz	18.0	5.0	300-8456-ND	.77	.66	.55	CSA309-29.4912MABJ-UB
	30.000000MHz	18.0	5.0	300-8457-ND	.77	.66	.55	CSA309-30.000MABJ-UB
	32.000000MHz	18.0	5.0	300-8458-ND	.61	.52	.44	CSA309-32.000MABJ-UB
	32.768000MHz	18.0	5.0	300-8459-ND	.77	.66	.55	CSA309-32.768MABJ-UB
	33.000000MHz	18.0	5.0	300-8460-ND	.61	.52	.44	CSA309-33.000MABJ-UB
	33.333300MHz	18.0	5.0	300-8461-ND	.61	.52	.44	CSA309-33.3333MABJ-UB
	33.868800MHz	18.0	5.0	300-8462-ND	.81	.69	.58	CSA309-33.8688MABJ-UB
	40.000000MHz	18.0	5.0	300-8463-ND	.61	.52	.44	CSA309-40.000MABJ-UB
	48.000000MHz	18.0	5.0	300-8464-ND	.77	.66	.55	CSA309-48.000MABJ-UB
	49.152000MHz	18.0	5.0	300-8465-ND	.61	.52	.44	CSA309-49.152MABJ-UB
	64.000000MHz	18.0	5.0	300-8466-ND	.61	.52	.44	CSA309-64.000MABJ-UB
CSA310	3.579545MHz	18.0	5.0	300-8306-ND	.63	.54	.45	CSA310-3.579545MABJ-UB
	3.686400MHz	18.0	5.0	300-8307-ND	.63	.54	.45	CSA310-3.6864MABJ-UB
	4.000000MHz	18.0	5.0	300-8308-ND	.63	.54	.45	CSA310-4.000MABJ-UB

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HC49US Series Through-Hole Crystals

Specifications:
• Frequency Tolerance: ±30ppm • Operating Temperature: -20°C ~ 70°C • Storage Temperature: -40°C ~ 85°C • Load Capacitance: 18.0pF • Shunt Capacitance: 7pF Maximum • Drive Level: 100µW Maximum • Insulation Resistance: 500MΩ Minimum • Aging (First Year): ±5ppm Maximum

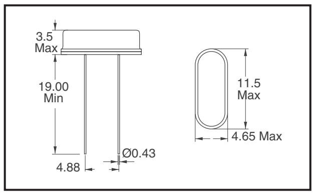

Equivalent Series Resistance (ESR, R1) (Ω Maximum)	
Frequency	**ESR**
3.579545MHz ≤ fo < 3.6864MHz	200
4.0MHz ≤ fo < 5.9904MHz	150
6.0MHz ≤ fo < 9.8304MHz	100
10.0MHz ≤ fo < 13.5MHz	80
14.31818MHz ≤ fo ≤ 28.63636MHz	50
32.0MHz ≤ fo ≤ 33.8688MHz	140
40.0MHz ≤ fo ≤ 50.0MHz	100

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
6.500000	300-6014-ND	.55	.47	.40	HC49US-6.500MABJ
12.000393	300-6028-ND	.55	.47	.40	HC49US-12.000393MABJ
16.257000	300-6036-ND	.55	.47	.40	HC49US-16.257MABJ
25.175000	300-6049-ND	.55	.47	.40	HC49US-25.175MABJ
RoHS Compliant					
3.579545	300-8467-ND	.63	.54	.45	HC49US-3.579545MABJ-UB
3.686400	300-8468-ND	.63	.54	.45	HC49US-3.6864MABJ-UB
4.000000	300-8469-ND	.63	.54	.45	HC49US-4.000MABJ-UB
4.096000	300-8471-ND	.63	.54	.45	HC49US-4.096MABJ-UB
4.194304	300-8472-ND	.63	.54	.45	HC49US-4.194304MABJ-UB
4.915200	300-8474-ND	.63	.54	.45	HC49US-4.9152MABJ-UB
5.000000	300-8475-ND	.63	.54	.45	HC49US-5.000MABJ-UB
5.990400	300-8477-ND	.50	.43	.36	HC49US-5.9904MABJ-UB
6.000000	300-8478-ND	.63	.54	.45	HC49US-6.000MABJ-UB
6.144000	300-8479-ND	.63	.54	.45	HC49US-6.144MABJ-UB
6.500000	300-8480-ND	.50	.43	.36	HC49US-6.500MABJ-UB
7.372800	300-8481-ND	.63	.54	.45	HC49US-7.3728MABJ-UB
7.680000	300-8482-ND	.63	.54	.45	HC49US-7.680MABJ-UB
8.000000	300-8483-ND	.63	.54	.45	HC49US-8.000MABJ-UB
9.000000	300-8484-ND	.63	.54	.45	HC49US-9.000MABJ-UB
9.216000	300-8485-ND	.63	.54	.45	HC49US-9.216MABJ-UB
9.830400	300-8486-ND	.63	.54	.45	HC49US-9.8304MABJ-UB
10.000000	300-8487-ND	.63	.54	.45	HC49US-10.000MABJ-UB
10.240000	300-8488-ND	.63	.54	.45	HC49US-10.240MABJ-UB
11.000000	300-8489-ND	.50	.43	.36	HC49US-11.00MABJ-UB
11.059200	300-8490-ND	.63	.54	.45	HC49US-11.0592MABJ-UB
11.520000	300-8491-ND	.50	.43	.36	HC49US-11.520MABJ-UB
12.000000	300-8492-ND	.63	.54	.45	HC49US-12.000MABJ-UB
12.000393	300-8493-ND	.50	.43	.36	HC49US-12.000393MABJ-UB
12.288000	300-8494-ND	.63	.54	.45	HC49US-12.288MABJ-UB
13.500000	300-8523-ND	.63	.54	.45	HC49US-13.500MABJ-UB
14.318180	300-8495-ND	.63	.54	.45	HC49US-14.31818MABJ-UB
14.745600	300-8496-ND	.63	.54	.45	HC49US-14.7456MABJ-UB
15.000000	300-8497-ND	.63	.54	.45	HC49US-15.000MABJ-UB
15.360000	300-8498-ND	.63	.54	.45	HC49US-15.360MABJ-UB
16.000000	300-8499-ND	.63	.54	.45	HC49US-16.000MABJ-UB
16.000312	300-8500-ND	.50	.43	.36	HC49US-16.000312MABJ-UB
16.257000	300-8501-ND	.50	.43	.36	HC49US-16.257MABJ-UB
16.384000	300-8502-ND	.63	.54	.45	HC49US-16.384MABJ-UB
17.734475	300-8503-ND	.63	.54	.45	HC49US-17.734475MABJ-UB
18.000000	300-8504-ND	.63	.54	.45	HC49US-18.000MABJ-UB
18.432000	300-8505-ND	.63	.54	.45	HC49US-18.432MABJ-UB
19.660800	300-8506-ND	.63	.54	.45	HC49US-19.6608MABJ-UB
20.000000	300-8507-ND	.63	.54	.45	HC49US-20.000MABJ-UB
21.477270	300-8508-ND	.50	.43	.36	HC49US-21.47727MABJ-UB
22.118400	300-8509-ND	.63	.54	.45	HC49US-22.1184MABJ-UB
24.000000	300-8510-ND	.63	.54	.45	HC49US-24.000MABJ-UB
24.000140	300-8511-ND	.63	.54	.45	HC49US-24.00014MABJ-UB
24.576000	300-8512-ND	.63	.54	.45	HC49US-24.576MABJ-UB
25.000000	300-8513-ND	.63	.54	.45	HC49US-25.000MABJ-UB
27.000000	300-8515-ND	.63	.54	.45	HC49US-27.000MABJ-UB
28.224000	300-8516-ND	.63	.54	.45	HC49US-28.224MABJ-UB
28.636360	300-8517-ND	.63	.54	.45	HC49US-28.63636MABJ-UB
32.000000	300-8518-ND	.63	.54	.45	HC49US-32.000MABJ-UB
40.000000	300-8520-ND	.63	.54	.45	HC49US-40.000MABJ-UB
48.000000	300-8521-ND	.63	.54	.45	HC49US-48.000MABJ-UB
50.000000	300-8522-ND	.63	.54	.45	HC49US-50.000MABJ-UB

ECS INC. INTERNATIONAL Programmable Oscillators

The ability to create a custom oscillator to certain specifications provides engineers with a great deal of flexibility. They allow for last minute changes in circuitry or design. ECS Blanks are "Twice Programmable". This is a cost saving feature which allows you to reprogram the same part to different specifications. ECS Programmable Oscillators are available in five different package styles: 3.2 x 5.0 SMD, 5.0 x 7.5 SMD, 9.0 x 14.0 SMD, Half Size Dip and Full Size Dip Package. Frequency ranges are available from 1MHz ~ 125MHz in 3.3V and 1MHz ~ 150MHz in 5V* and in ±50ppm** and ±100ppm Frequency Stability Options.

*3.2 x 5.0 SMD package: Frequency range 1MHz ~ 125MHz in 5V.

**±50ppm not available in Extended Temperature Range Option.

Fig. 1 — P5 Type

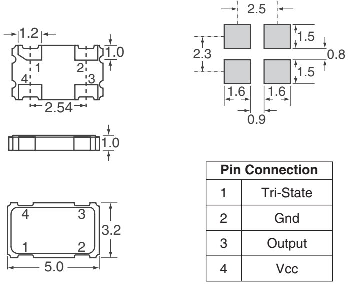

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

Fig. 2 — P7 Type

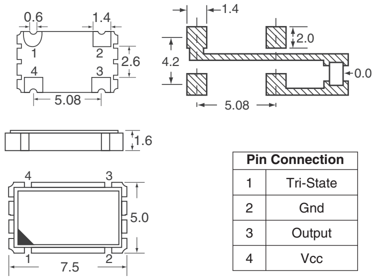

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

Fig. 3 — P8F Type

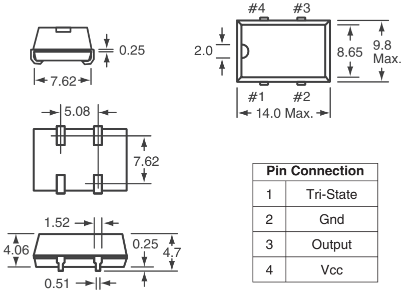

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

Fig. 4 — P8 Type

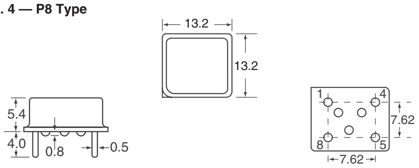

Pin Connection	
1	Tri-State
4	Gnd
5	Output
8	Vcc

Fig. 5 — P14 Type

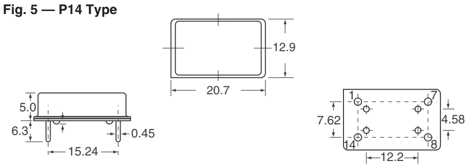

Pin Connection	
1	Tri-State
7	Gnd
8	Output
14	Vcc

How to Select a Base Part Number:	
#1	Select Part Type
#2	Select Output Voltage
#3	Select Frequency Tolerance / Operating Temperature

† Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Programmable parts are non-cancelable and non-returnable!

Example Part Number:
ECS □□□-□□-ND

#1	Part Type
P5	3.2 x 5.0 mm
P7	5.0 x 7.0 mm
P8F	9.0 x 14.0 mm
P8	8 Pin Dip
P14	14 Pin Dip

#2	Output Voltage
3	3.3V
5	5V

#3	Frequency Tolerance (Operating Temperature)
A	±100ppm (0°C ~ 70°C)
AN	±100ppm (40°C ~ 85°C)
B	±50ppm (0°C ~ 70°C)

Fig.	Digi-Key† Part No.	Price Each 1	10	50	100	ECS Part No.
		Surface Mount — RoHS Compliant				
1	ECS-P5□-□□-ND	11.03	9.45	6.93	6.30	ECS-UPO-3X5
2	ECS-P7□-□□-ND	6.77	5.81	4.26	3.87	ECS-UPO-5X7
3	ECS-P8F□-□□-ND	7.61	6.53	4.79	4.35	ECS-UPO-8FX
		Through Hole				
4	ECS-P8□-□□-ND	6.77	5.81	4.26	3.87	ECS-UPO-8PIN
	ECS-P8□-□□X-ND◆	6.77	5.81	4.26	3.87	ECS-UPO-8PINX
5	ECS-P14□-□□-ND	6.77	5.81	4.26	3.87	ECS-UPO-14PIN
	ECS-P14□-□□X-ND◆	6.77	5.81	4.26	3.87	ECS-UPO-14PINX

◆ ***RoHS Compliant***

CrystalPro Oscillator Programming System

Programmer

Designed specifically to program oscillator devices, the CrystalPro is a fast, accurate, low cost solution for your low to mid volume programming needs. Software and firmware upgrades can be downloaded off the web to support future parts from manufacturers and new technologies such as programmable TCXO and VCXO devices.

The user-friendly CrystalWindow graphical interface insures complete and valid part specification and fast part type switching. Attaches to any Windows PC via standard serial port.

Features:

- Fast - average programming is less than two seconds.
- Accurate frequency at time of programming cycle is within 5ppm.
- Simple - just select part number, type in desired frequency and click PROGRAM.
- Flexible - handling devices up to 250MHz and LVTTL/TTL/CMOS/ECL/PECL I/O technologies, the CrystalPro is designed to handle tomorrow's technologies as they become available.

PC Based Programmer

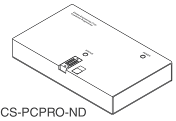

ECS-PCPRO-ND

Description	Digi-Key Part No.	Price Each
PC Based Programmer	ECS-PCPRO-ND	883.75

Blank Oscillator

Description	Digi-Key Part No.	Price Each
Blank Oscillator, 3 x 5 SMD	ECS-UPO-3X5-ND◆	7.35
Blank Oscillator, 5 x 7 SMD	ECS-UPO-5X7-ND◆	4.52
Blank Oscillator, Full Size	ECS-UPO-14PINX-ND◆	4.52
Blank Oscillator, Full Size	ECS-UPO-14PIN-ND	4.52
Blank Oscillator, Half Size	ECS-UPO-8PINX-ND◆	6.48
Blank Oscillator, Half Size	ECS-UPO-8PIN-ND	6.48
Blank Oscillator	ECS-UPO-8FX-ND◆	5.08

◆ ***RoHS Compliant***

Adapter

Description	Digi-Key Part No.	Price Each
Adapter, 3 x 5 SMD	ECS-UPO-3X5-FXT-ND	87.75
Adapter, 5 x 7 SMD	ECS-UPO-5X7-FXT-ND	67.50
Adapter for Plastic Oscillator	ECS-UPO-8F-FXT-ND◆	27.00

◆ ***RoHS Compliant***

MEMSpeed Pro™ Oscillator Programming Kits

MEMSpeed Pro Programmer

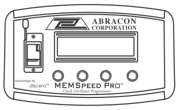

Dimensions: 6.0" x 3.5" x 1.0"

MEMSpeed Pro Deluxe Kit:

Includes: • MEMSpeed Pro Programmer • Two Socket Adapters *(5.0mm x 3.2mm and 3.2mm x 2.5mm)* • USB Cable • Tweezers • Quickstart Guide and CD-ROM for PC Installation • 200 unprogrammed blank Oscillators *(100pcs. of 535-10059-ND and 100pcs. of 535-10060-ND)*

535-10056-ND (MEMSPEED PRO DELUXE KIT) **$499.00**

MEMSpeed Pro Standard ASFLM Kit:

Includes: • MEMSpeed Pro Programmer • Socket Adapters *(5.0mm x 3.2mm)* • USB Cable • Tweezers • Quickstart Guide and CD-ROM for PC Installation • 50 unprogrammed blank Oscillators *(535-10059-ND)*

535-10057-ND (MEMSPEED PRO ASFLM KIT) **$315.00**

MEMSpeed Pro Standard ASEM Kit:

Includes: • MEMSpeed Pro Programmer • Socket Adapters *(3.2mm x 2.5mm)* • USB Cable • Tweezers • Quickstart Guide and CD-ROM for PC Installation • 50 unprogrammed blank Oscillators *(535-10060-ND)*

535-10058-ND (MEMSPEED PRO ASEM KIT) **$315.00**

Blank Replacement Oscillators

ASFLM and ASEM Oscillators are unprogrammed blank replacement oscillators for MEMSpeed Pro Programming Kits.

Digi-Key Part No.	Price Each 1	10	50	Abracon Part No.
		3.2mm x 5.0mm		
535-10059-ND	4.15	3.56	2.61	ASFLM-BLANK-LC
		2.5mm x 3.2mm		
535-10060-ND	4.25	3.65	2.68	ASEM-BLANK-LC

Low Jitter Programmable Oscillators

AP2S and AP3S Series

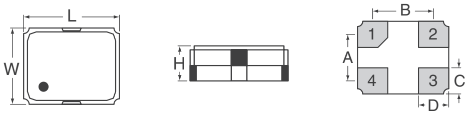

	Dimensions (mm) AP2S Series	AP3S Series
H	0.9	1.2
L	2.0	2.5
W	2.5	3.2
A	1.25	1.65
B	1.65	2.1
C	0.7	0.65
D	0.8	0.9

Pin Connection	
1	Standby
2	Ground
3	Output
4	Vdd

Frequency Range (MHz) AP2S Series		AP3S Series	
2.5V	3.0 ~ 90.0	2.5V	1.0 ~ 166.0
1.8V	3.0 ~ 75.0	1.8V	1.0 ~ 133.0
3.3V	3.0 ~ 110.0	3.3V	1.0 ~ 200.0

Digi-Key Part No.*	Price Each 1	10	50
AP2S☐☐☐-ND	8.40	7.20	5.28
AP3S☐☐☐-ND	6.83	5.85	4.29

***** *Call Digi-Key with your selected Base Part Number and a Sales Representative will enter your desired frequency.*
Note: *For fixed frequency oscillators please reference ASD and ASE Series Oscillators.*

Programmable parts are non-cancelable and non-returnable!

Example Part Number:
AP ☐☐☐☐☐ - ND

#1 Package	
2S	2.0 x 2.5
3S	2.5 x 3.2

#2 Supply Voltage	
1	2.5V
2	1.8V
3	3.3V

#3 Frequency Stability over Temperature Range			
EJ	±20ppm (-20°C ~ 70°C)	**LJ**	±20ppm (-40°C ~ 85°C)
ER	±25ppm (-20°C ~ 70°C)	**LR**	±25ppm (-40°C ~ 85°C)
EC	±50ppm (-20°C ~ 70°C)	**LC**	±50ppm (-40°C ~ 85°C)

How to Select a Base Part Number:
#1 Select Package
#2 Select Supply Voltage
#3 Select Frequency over Temperature Range

Spread Spectrum Programmable Oscillators,

"Systemic EMI Compliance Solution" — ASSFLP and ASSVP Series

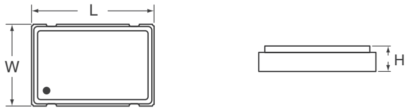

	Dimensions (mm) ASSFLP	ASSVP
W	3.4	5.0
L	5.2	7.0
H	1.3	1.4

Pin Connection	
1	Tri-state
2	GND/Case
3	Output
4	Vdd

Frequency Range (MHz)	Digi-Key Part No.*	Price Each 1	10	50
13.000 ~ 160.000	ASSFLP☐-☐-☐☐☐-ND	7.88	6.75	4.95
10.000 ~ 160.000	ASSVP☐-☐-☐☐☐-ND	7.51	6.44	4.72

***** *Call Digi-Key with your selected Base Part Number and a Sales Representative will enter your desired frequency or if you are ordering via the Web, you would put your desired frequency into the Customer Reference Field/Order Notes.*

Programmable parts are non-cancelable and non-returnable!

How to Select a Base Part Number:
#1 Select Package
#2 Select Supply Voltage
#3 Select Frequency Stability
#4 Select Spread Spectrum Bandwidth Code; either *"Center Spread"* or *"Down Spread"*.

Example Part Numbers:
ASSFLP ☐ - ☐ - ☐☐☐ - ND
ASSVP ☐ - ☐ - ☐☐☐ - ND

#1 Package	
ASSFLP	5.0 x 3.2
ASSVP	7.0 x 5.0

#2 Supply Voltage	
Blank	3.3V
1	2.5V

#3 Frequency Stability	
Blank	±50ppm
R	±25ppm

#4 Spread Spectrum Bandwidth Code
(See Code Charts Below)

Spread Spectrum Bandwidth Code Charts:

Center Spread Code	(%)	Code	(%)
C01	±0.125	**C09**	±1.125
C02	±0.250	**C10**	±1.250
C03	±0.375	**C11**	±1.375
C04	±0.500	**C12**	±1.500
C05	±0.675	**C13**	±1.675
C06	±0.750	**C14**	±1.750
C07	±0.875	**C15**	±1.875
C08	±1.000	**C16**	±2.000

Down Spread Code	(%)	Code	(%)
D01	-0.25	**D09**	-2.25
D02	-0.50	**D10**	-2.50
D03	-0.75	**D11**	-2.75
D04	-1.00	**D12**	-3.00
D05	-1.25	**D13**	-3.25
D06	-1.50	**D14**	-3.50
D07	-1.75	**D15**	-3.75
D08	-2.00	**D16**	-4.00

CITIZEN Micro HumanTech

Programmable Oscillators — CSX750P Series

RoHS COMPLIANT

Dim. in mm

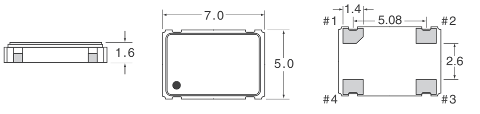

Pin Connection	
1	OE or ST
2	Gnd
3	Out
4	Vdd

Digi-Key Part No.*	Cut Tape Price Each 1	10	50	Digi-Key Part No.*	Tape and Reel Pricing 2,000	6,000
CSX-750□□□□□-ND	4.73	4.05	2.97	CSX-750□□□□□-ND	1800.00/M	1485.00/M
Blank Oscillator — SMD						
CSX-750P1PCT-ND	4.73	4.05	2.97	CSX-750P1PTR-ND	1260.00/M	1170.00/M

How to Select Base Number:

#1 Select Supply Voltage, Output and Function

#2 Select Frequency Stability at Operating Temperature

#3 Select Packaging *(leave last two boxes blank for packaging).*

Frequency Range (MHz)	
3.3V	1.000 ~ 100.000
5.0V	1.000 ~ 125.000

Example Part Numbers:
CSX750 □□□□□ - ND

#1	Supply Voltage	Output	Function
PD	5.0V	CMOS	Standby
PC	5.0V	CMOS	Output Enable
PJ	3.3V	CMOS	Standby
PB	3.3V	CMOS	Output Enable
PK	5.0V	TTL	Standby
PT	5.0V	TTL	Output Enable

#2 Frequency Stability @ Operating Temperature	
C	±100ppm @ -20°C ~ 70°C
B	±50ppm @ -20°C ~ 70°C
F	±100ppm @ -40°C ~ 85°C

#3 Packaging	
CT	Cut Tape
TR	Tape & Reel

* *Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency. Parts come marked with Manufacture Date Lot Code only.*

Programmable parts are non-cancelable and non-returnable!

CARDINAL COMPONENTS, INC.

FIPO™ Field Instantly Programmable Oscillators

RoHS COMPLIANT

The **CPP Series** is a Standard series and is available in Styles 1, 4, 5, 7 and 8. The frequency range is 1.000MHz ~ 133.000MHz for 5V and 1.000MHz ~ 100.000MHz for 3.3V. The **CPPL Series** is an Ultra Low Jitter series and is available in Styles 1, 4, 5, 7 and 8. The frequency range is 1.000MHz ~ 133.000MHz for 5V, 1.000MHz ~ 100.000MHz for 3.3V

The **CPPFX Series** is an Extended Temperature, High Stability series and is available in Style 7 only. The frequency range is 1.000MHz ~ 133.000MHz for both 5V and 3.3V. The temperature range is -40°C ~ 85°C and the frequency stability is ±25ppm.

Fig. 1 — (Style 4) Half Size, 8-Pin Dip

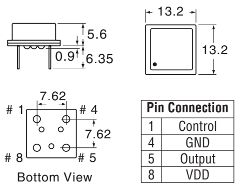

Pin Connection	
1	Control
4	GND
5	Output
8	VDD

Fig. 2 — (Style 1) Full Size 14 Pin Dip

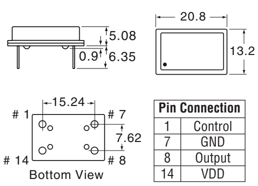

Pin Connection	
1	Control
7	GND
8	Output
14	VDD

Fig. 3 — (Style 7) 5x7 Ceramic SMD

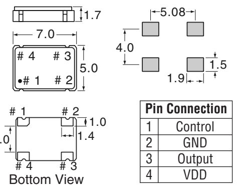

Pin Connection	
1	Control
2	GND
3	Output
4	VDD

Fig. 4 — (Style 5) 3.2 x 5 Ceramic SMD

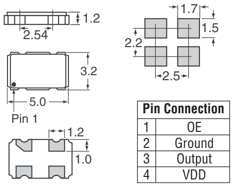

Pin Connection	
1	OE
2	Ground
3	Output
4	VDD

Fig. 5 — (Style 8) Plastic SMD

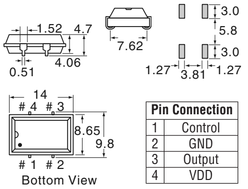

Pin Connection	
1	Control
2	GND
3	Output
4	VDD

Example Part Number:
CPP/CPPL/CPPFX □□-□□□□□-ND

#1	Output
C	CMOS
T	TTL

#2	Package Style
1	Full Size
4	Half Size
5	3.2 x 5 Ceramic
7	5 x 7 Ceramic
8	Plastic SMD

CPPFX Available in 5 x 7 only.

#3	Voltage
H	5 Volt
L	3.3 Volt

H = 1 thru 133MHz
L = 1 thru 100MHz

#4	Packaging
T	Tube
Z	Tape & Reel

Package style 1 and 4 available in tube packaging only. Package style 7 and 8 available in tube and tape & reel

#5	Operating Temp.
0	0°C ~ 70°C
5	-20°C ~ 70°C
7	-40°C ~ 85°C

CPPFX available in -40°C ~ 85°C only.

#6	Stability
6	±100ppm
P	±50ppm
R	±25ppm

R not available in -40°C to 80°C CPPFX available in ±25ppm only.

#7	Function
T	Tri-State
P	Power Down

Tri-State Mode – The output of the part is weakly pulled low when the control pin goes low. The active circuitry continues to operate, allowing a rapid return to normal operation when the control pin goes high.

Power Down Mode – When the control pin goes low, all active circuitry on the chip within the oscillator is shut down. For reactivation, time in which the part regains its output is minimal.

How to Select a Base Number:

# 1 = Select Output
# 2 = Select Package Style
# 3 = Select Voltage
# 4 = Select Packaging
# 5 = Select Operating Temp.
# 6 = Select Stability
# 7 = Select Function

* Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency.

Programmable parts are non-cancelable and non-returnable!

Fig.	Digi-Key * Base Part No.	Price Each 1	10	50	Tape and Reel Pricing 100	500	1,000
1	CPPC4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC4-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT4-□T□R□-ND	8.14	6.98	5.12	—	—	—
2	CPPC1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC1-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT1-□T□R□-ND	8.14	6.98	5.12	—	—	—
3	CPPC7-□□□□□-ND	6.56	5.63	4.13	375.00	1406.25	2500.00
	CPPC7-□□□R□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00

Fig.	Digi-Key * Base Part No.	Price Each 1	10	50	Tape and Reel Pricing 100	500	1,000
3	CPPFXC7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPFXT7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPLC7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPLT7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPT7-□□□□□-ND	6.56	5.63	4.13	382.50	1434.38	2550.00
	CPPT7-□□□R□-ND	7.56	6.48	4.76	439.50	1648.13	2930.00
4	CPPLC5-□T□□□-ND	9.98	8.55	6.27	—	—	—
	CPPLT5-□T□□□-ND	9.98	8.55	6.27	—	—	—
5	CPPC8-□□□□□-ND	7.09	6.08	4.46	405.00	1518.75	2700.00
	CPPC8-□□□R□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLC8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLT8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPT8-□□□□□-ND	7.09	6.08	4.46	412.50	1546.88	2750.00
	CPPT8-□□□R□-ND	8.14	6.98	5.12	472.50	1771.88	3150.00

FIPO™ Programmable (Blank) Oscillators

RoHS COMPLIANT

FX5X7-ND	5x7 Ceramic SMD, ±25ppm	**$8.72**
LX1FS-ND	Full Size, ±50ppm or ±100ppm	**$8.14**
LX4HS-ND	Half Size, ±50ppm or ±100ppm	**$8.14**
LX5-ND	3.2 x 5mm SMD, ±50ppm or ±100ppm	**$9.98**
LX7-ND	5x7 Ceramic SMD, ±50ppm or 100ppm	**$7.56**
LX8-ND	Plastic SMD J-lead, ±50ppm or ±100ppm	**$8.14**
X1FS2-ND	Full Size, ±25ppm	**$8.14**
X1FS15-ND	Full Size, ±50ppm or ±100ppm	**$7.09**
X4HS2-ND	Half Size, ±25ppm	**$8.14**
X4HS15-ND	Half Size, ±50ppm or ±100ppm	**$7.09**
5X72-ND	5x7 Ceramic SMD, ±25ppm	**$7.56**
5X715-ND	5x7 Ceramic SMD, ±50ppm or 100ppm	**$6.56**
X8J2-ND	Plastic SMD, ±25ppm SMD	**$8.14**
X8J15-ND	Plastic SMD, ±50ppm or ±100ppm	**$7.09**

Programmers and Adapter Sockets

PG-3000-ND	PC Based Programmer for FIPO Parts	**$690.90**
SC-5320-ND	Socket for 5mm x 3.2mm Oscillators (use with PG-3000, PG3100 and PG2000P)	**$73.50**
SC2000-ND	Socket for 5mm x 7mm Ceramic Oscillators (use with PG-3000, PG3100 and PG2000P)	**$73.50**
SC2500-ND	Socket for Style 8 Plastic Oscillators (use with PG-3000, PG3100 and PG2000P)	**$136.50**

Note: For Programmer features and system requirements, please see appropriate data sheets on Digi-Key website.

SILICON LABS

Silicon Oscillators — Differential Output or Single-Ended Output

RoHS COMPLIANT

Features:
• Quartz-free, MEMS-free, and PLL-free all-silicon oscillator • Any-rate output frequencies from 0.9 ~ 200 MHz • Short lead times •Excellent temperature stability (±20 ppm) • Highly reliable startup and operation • High immunity to shock and vibration • Low jitter: <1.5 ps • 0°C ~ 85°C operation includes 10-year aging in hot environments • Footprint compatible with industry-standard 3.2 x 5.0 mm XOs • CMOS and SSTL versions available • Driver stopped, tri-state, or powerdown operation • 1.8, 2.5, or 3.3V options • Low power • More than 10x better fit rate than competing crystal solutions

Type	Digi-Key Base Part No.*	Price Each 1	10	50
Differential	500D□□□-AC□-ND	8.14	6.98	5.12
Single-Ended	500S□□□-AC□-ND	6.41	5.49	4.03

* *Call Digi-Key with your selected Base Part Number and a Sales Representative will enter your desired frequency.*

How to Select a Base Part Number:

#1 Select Supply Voltage and Format
#2 Select Frequency Stability
#3 Select Function
#4 Select Operating Temperature Range

Example Part Number:
500D/500S □□□ - AC □ - ND

#1	Differential Output		#1	Single-Ended Output	
	Supply Voltage	Format		Supply Voltage	Format
A	3.3	LVPECL	**A**	3.3	CMOS
C	3.3	LVDS	**E**	2.5	CMOS
D	3.3	HCSL	**J**	1.8	CMOS
J	2.5	LVPECL			
L	2.5	LVDS			
M	2.5	HCSL			
S	1.8	LVDS			
T	1.8	HCSL			

#2 Frequency Stability	
A	±150ppm
B	±250ppm

#3 Function	
A	OE active high/tristate
B	OE active low/tristate
C	OE active high/powerdown
D	OE active low/powerdown
E	OE active high/driver stopped
F	OE active low/driver stopped

#4 Operating Temperature Range	
F	0°C ~ 70°C
H	0°C ~ 85°C

Programmable parts are non-cancelable and non-returnable!

NEW! 1 ps Max Jitter Crystal Oscillators (XO)

Example Part Number:
59 □ □ □ - □ DG - ND

Si590/591 Series

Features: • Available with any-rate output frequencies from 10MHz ~ 525MHz • 3rd generation DSPLL® with superior jitter performance: 1 ps maximum jitter • Better frequency stability than SAW-based oscillators • Internal fundamental mode crystal ensures high reliability • Available CMOS, LVPECL, LVDS, and CML outputs • 3.3, 2.5, and 1.8V supply options • Industry-standard 5 x 7 mm package and pinout • Operating Temperature Range: -40°C ~ 85°C

#1	
Code	**Product Family**
0	590 XO
1	591 XO

* Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency. For online orders you may enter it to the web notes.

Programmable parts are non-cancelable and non-returnable!

#2							
Code	**Supply Voltage**	**Output Format**	**Output Enable Polarity**	**Code**	**Supply Voltage**	**Output Format**	**Output Enable Polarity**
A	3.3	LVPECL	High	**M**	3.3	LVPECL	Low
B	3.3	LVDS	High	**N**	3.3	LVDS	Low
C	3.3	CMOS	High	**P**	3.3	CMOS	Low
D	3.3	CML	High	**Q**	3.3	CML	Low
E	2.5	LVPECL	High	**R**	2.5	LVPECL	Low
F	2.5	LVDS	High	**S**	2.5	LVDS	Low
G	2.5	CMOS	High	**T**	2.5	CMOS	Low
H	2.5	CML	High	**U**	2.5	CML	Low
J	1.8	CMOS	High	**V**	1.8	CMOS	Low
K	1.8	CML	High	**W**	1.8	CML	Low

#3		
Code	**Total Stability (Max.)**	**Temp. Stability (Max.)**
A	±100ppm	±50ppm
B	±50ppm	±25ppm
C	±30ppm	±20ppm

#4	
Code	**Frequency Range (MHz)**
A	250 ~ 525
B	10 ~ 250
Code	**CMOS Devices (MHz)**
A	85 ~ 160
B	10 ~ 85

How to Select a Base Part Number:
- **#1** Select Product Family
- **#2** Select Supply Voltage, Output Format and Output Enable Polarity
- **#3** Select Total Stability and Temperature Stability
- **#4** Select Frequency Range

Digi-Key Base Part No.*	Price Each 1	10	50
59□A□-ADG-ND	39.69	34.02	24.95
59□B□-ADG-ND	39.69	34.02	24.95
59□D□-ADG-ND	39.69	34.02	24.95
59□E□-ADG-ND	39.69	34.02	24.95
59□F□-ADG-ND	39.69	34.02	24.95
59□H□-ADG-ND	39.69	34.02	24.95
59□K□-ADG-ND	39.69	34.02	24.95
59□M□-ADG-ND	39.69	34.02	24.95
59□N□-ADG-ND	39.69	34.02	24.95
59□Q□-ADG-ND	39.69	34.02	24.95
59□R□-ADG-ND	39.69	34.02	24.95
59□S□-ADG-ND	39.69	34.02	24.95
59□U□-ADG-ND	39.69	34.02	24.95
59□W□-ADG-ND	39.69	34.02	24.95

Digi-Key Base Part No.*	Price Each 1	10	50
59□A□-BDG-ND	32.76	28.08	20.60
59□B□-BDG-ND	32.76	28.08	20.60
59□D□-BDG-ND	32.76	28.08	20.60
59□E□-BDG-ND	32.76	28.08	20.60
59□F□-BDG-ND	32.76	28.08	20.60
59□H□-BDG-ND	32.76	28.08	20.60
59□K□-BDG-ND	32.76	28.08	20.60
59□M□-BDG-ND	32.76	28.08	20.60
59□N□-BDG-ND	32.76	28.08	20.60
59□Q□-BDG-ND	32.76	28.08	20.60
59□R□-BDG-ND	32.76	28.08	20.60
59□S□-BDG-ND	32.76	28.08	20.60
59□U□-BDG-ND	32.76	28.08	20.60

Digi-Key Base Part No.*	Price Each 1	10	50
59□W□-BDG-ND	32.76	28.08	20.60
590C□-ADG-ND	24.83	21.29	15.61
590G□-ADG-ND	24.83	21.29	15.61
590J□-ADG-ND	24.83	21.29	15.61
590P□-ADG-ND	24.83	21.29	15.61
590T□-ADG-ND	24.83	21.29	15.61
590V□-ADG-ND	24.83	21.29	15.61
590C□-BDG-ND	20.74	17.78	13.04
590G□-BDG-ND	20.74	17.78	13.04
590J□-BDG-ND	20.74	17.78	13.04
590P□-BDG-ND	20.74	17.78	13.04
590T□-BDG-ND	20.74	17.78	13.04
590V□-BDG-ND	20.74	17.78	13.04

EPSON TOYOCOM SG8002 Programmable Oscillators

The SG-8002 Series gives you the flexibility to solve many different application problems with a one time programmable device. Programmable Oscillators provide the ability to pick a custom frequency in one of seven different packages available in SMD and Thru-Hole styles. All packages are pin compatible with the Epson SG-645, SG-636, SG-615, SG-531, SG-51, SG-710 and SG-310 Oscillators.

Fig. 1 — SG-645 Package (JF)

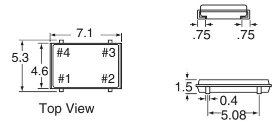

Fig. 2 — SG-636 Package (JC)

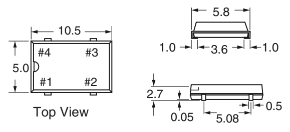

Fig. 3 — SG-615 Package (JA)

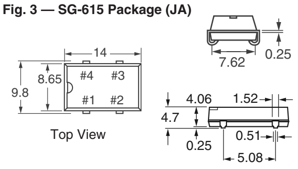

Fig. 4 — SG-531 Package (DC)

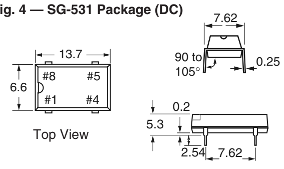

Fig. 5 — SG-51 Package (DB)

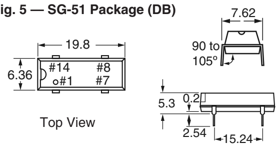

Fig. 6 — SG-710 Package (CA)

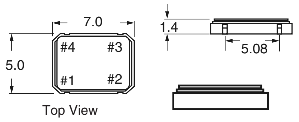

Fig. 7 — SG-310 Package (CE)

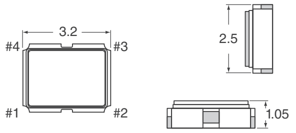

A

Pin Connection	
1	OE or ST
2	GND
3	Out
4	Vdd

B

Pin Connection	
1	OE or ST
4	GND
5	Out
8	Vdd

C

Pin Connection	
1	OE or ST
7	GND
8	Out
14	Vdd

Example Part Number:
SG-8002
SGR-8002 □□ - □□□ **-ND**

#1	
	Package
JA	SG-615
JC	SG-636
DB	SG-51
DC	SG-531
CA	SG-710
JF	SG-645
CE	SG-310

#2	
	Function
P	Output Enable
S	Standby

#3		#4		
	Power Supply Duty Level		**Frequency Stability**	**Operating Temperature**
H	5.0V, CMOS	B	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M◊	±100ppm	-40°C ~ 85°C
T	5.0V, TTL	B	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M◊	±100ppm	-40°C ~ 85°C
C	3.3V, CMOS	B	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M◊	±100ppm	-40°C ~ 85°C

◊ Not available in JC Package

How to order:

#1 — Select Package
#2 — Select Function
#3 — Select Power Supply Duty Level
#4 — Select Frequency Stability and Operating Temperature

Call Digi-Key with your Base Part Number and an Operator will enter your desired frequency.

Available Frequency Range: 1.000MHz ~125.000MHz (except for those listed below)

SG-8002CA/DB/DC/JA: PHM/PTM/SHM/STM: 1.000MHz ~ 55.000MHz
SG-8002JF: PHM/PTM/SHM/STM: 1.000MHz ~ 40.000MHz
SG-8002CE: PHM/PTM/SHM/STM: 1.000MHz ~ 27.000MHz

Parts coming from Digi-Key are marked with Manufacture Date Lot Code only.
Fully marked parts are available as a non-catalog order.

One Time Programmable parts are non-cancelable, non-returnable!

Fig.	Digi-Key Base Part No.‡	Price Each 1	10	50
1A	SG-8002JF-□□□-ND	5.25	4.50	3.30
2A	SG-8002JC-□□□-ND	5.88	5.04	3.70
3A	SG-8002JA-□□□-ND	5.78	4.95	3.63
4B	SG-8002DC-□□□-ND	5.15	4.41	3.24
5C	SG-8002DB-□□□-ND	5.15	4.41	3.24

Fig.	Digi-Key Base Part No.‡	Price Each 1	10	50
	Lead Free/RoHS Compliant			
1A	SGR-8002JF-□□□-ND	5.25	4.50	3.30
2A	SGR-8002JC-□□□-ND	5.88	5.04	3.70
3A	SGR-8002JA-□□□-ND	5.78	4.95	3.63
4B	SGR-8002DC-□□□-ND	5.15	4.41	3.24
5C	SGR-8002DB-□□□-ND	5.15	4.41	3.24
6A	SG-8002CA-□□□-ND	6.25	5.36	3.93
7A	SG-8002CE-□□□-ND	6.25	5.36	3.93

‡ For Complete Base Part Number, substitute the corresponding letter for □.

Real Time Clock Modules

Frequency Tolerance	Package	Digi-Key Part No.	Price Each 1	10	50	Tape and Reel§ Qty.	Pricing	Epson Part No.
±10ppm	18-Dip	SE3231-ND	8.89	7.62	6.35	—	—	RTC-72421A
±50ppm	18-Dip	SE3232-ND	8.23	7.05	5.88	—	—	RTC-72421B
±20ppm	24-SOP	SE3241-ND	9.98	8.55	7.13	—	—	RTC-72423A
±20ppm	24-SOP	SE3241TR-ND‡	—	—	—	250	1425.00	RTC-72423A:3
±50ppm	24-SOP	SE3242TR-ND‡	—	—	—	250	1250.00	RTC-72423B:3
5 ±23ppm	14-SOP	SE3253-ND	3.50	3.00	2.50	—	—	RX-8581SA:B
		RoHS Compliant						
5 ±23ppm	14-SOP	SER3245CT-ND†	5.04	4.32	3.60	1,000	2016.00	RTC-4543SA:A0:ROHS
±10ppm	18-Dip	SER3231-ND	8.89	7.62	6.35	—	—	RTC-72421A:ROHS

Frequency Tolerance	Package	Digi-Key Part No.	Price Each 1	10	50	Tape and Reel§ Qty.	Pricing	Epson Part No.
±20ppm	24-SOP	SER3241-ND	9.98	8.55	7.13	—	—	RTC-72423A:ROHS
5 ±23ppm	14-SOP	SER3648CT-ND†	4.73	4.05	3.38	250	675.00	RTC-4574SA:B3:ROHS
5 ±23ppm	22-SON	SER3649CT-ND†	6.34	5.43	4.53	250	905.00	RTC-8564NB:B3:ROHS
5 ±5ppm	14-SOP	SER3650CT-ND†	4.06	3.48	2.90	250	580.00	RX-8025SA:AA3:ROHS
5 ±23ppm	22-SON	SER3651CT-ND†	5.22	4.47	3.73	250	745.00	RX-4581NB:B3:ROHS
5 ±23ppm	20-VSOJ	SER3252CT-ND†	5.88	5.04	4.20	250	840.00	RTC-8564JE:3:ROHS
5 ±23ppm	14-SOP	SER3253CT-ND†	3.00	2.50	2.25	250	500.00	RX-8581SA:B3:ROHS

† Cut Tape ‡ Tape and Reel § For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPSON TOYOCOM SG-310 Series SMD Oscillators

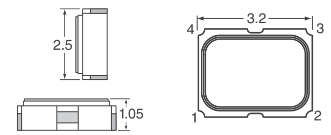

Pin Connection	
1	ST
2	GND
3	OUT
4	Vcc

Specifications: • Supply Voltage: 3.3V typ. • Storage Temperature: -40°C ~ 125°C • Operating Temperature: -40°C ~ 85°C • Stand-by Current: 2.0µA Maximum • Duty Cycle: 45% ~ 55% • Start-up Time: 10ms Maximum • Output Voltage: *VOH:* 90% Vcc Minimum; *VOL:* 10% Vcc Maximum • Output Load Condition: 15pF Maximum • Rise and Fall Time: 4ns Maximum

Frequency (MHz)	Frequency Stability	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.
25.0000	±50ppm	SER3652CT-ND	6.67	5.72	4.20	SER3652TR-ND	952.50	SG-310SCF 25.0000MB3
48.0000	±100ppm	SER3653CT-ND	5.93	5.09	3.73	SER3653TR-ND	847.50	SG-310SCF 48.0000MC3

SG-3030JC 32.768kHz Crystal Oscillators

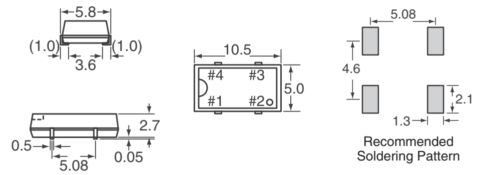

Specifications:
- Voltage: 1.5V ~ 5.5V • Interface Power Supply Voltage: 1.5V ~ 5.5V • Storage Temperature: -55°C ~ 125°C • Operating Temperature: -40°C ~ 85°C • Frequency Tolerance: +5/-23ppm • Supply Current: 2µA Maximum • Duty Cycle: 45% ~ 55% • Start-up Time: 1s
- Output Load CMOS: 15pF Maximum • Rise Time CMOS: 200ns Maximum • Fall Time CMOS: 200ns Maximum

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.
32.768	SE3618CT-ND	4.67	4.01	2.94	SE3618TR-ND	667.50	SG-3030JC 32.7680KB3
32.768	SER3618CT-ND◆	4.67	4.01	2.94	SER3618TR-ND◆	667.50	SG-3030JC 32.7680KB3:ROHS

◆ *RoHS Compliant*

SG-9001CA Series Oscillators with Spread Spectrum

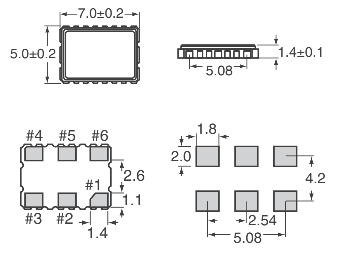

Pin Connection	
1	OE
2	(SSON)*
3	GND
4	OUT
5	N.C.
6	VDD

* SSON Terminal should be kept open or GND

Specifications:
- Supply Voltage: 3.3V ±0.3V • Operating Temperature: -20°C ~ 70°C • Storage Temperature: -40°C ~ 125°C • Supply Current: 30mA • Duty Cycle: 45% ~ 55% • Start-up Time: 10ms • Output Voltage: -0.4V (VOH); .4V (VOL) • Load Capacitance: 15.0pF
- Rise Time CMOS: 2.7ns • Fall Time CMOS: 2.7ns

Spread Spectrum Specifications				
Center Spread	Code	C10P	C15P	C20P
	%	±1.0%	±1.5%	±2.0%
Down Spread	Code	D15P	—	—
	%	-1.5%	—	—

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
16.6667	SE1915-ND	10.03	8.60	6.31	SG-9001CA C10P 16.6667MC
25.0000	SE1916-ND	10.03	8.60	6.31	SG-9001CA C10P 25.0000MC
25.0000	SE1917-ND	10.03	8.60	6.31	SG-9001CA C20P 25.0000MC
33.3333	SE1918-ND	10.03	8.60	6.31	SG-9001CA C15P 33.3333MC
33.3333	SE1919-ND	10.03	8.60	6.31	SG-9001CA D15P 33.3333MC
40.0000	SE1920-ND	10.03	8.60	6.31	SG-9001CA C20P 40.0000MC
50.0000	SE1921-ND	10.03	8.60	6.31	SG-9001CA D15P 50.0000MC
50.0000	SE1922-ND	10.03	8.60	6.31	SG-9001CA C20P 50.0000MC
66.6667	SE1923-ND	10.03	8.60	6.31	SG-9001CA C20P 66.6667MC
66.6667	SE1924-ND	10.03	8.60	6.31	SG-9001CA D15P 66.6667MC

EG Series Low Jitter High Frequency SAW Oscillators

Specifications		Series EG-2001CA	EG-2021CA	EG-2101CA	EG-2102CA	EG-2121CA
Supply Voltage:		3.3V ±0.3V	2.5V ±0.125V	3.3V ±0.15	3.3V ±0.3V	2.5V ±0.125V
Oper. Temp.:		0°C ~ 70°C				
Storage Temp.:		-40°C ~ 100°C				
Supply Current (Max.):		50mA	25mA	60mA	100mA	LVPECL: 80mA LVDS: 30mA
Duty Cycle:		45% ~ 55%		—	45% ~ 55%	
Start-up Time:		10mS Max.				
Output Voltage:	VOH:	Vcc: 0.4V Min.	Vcc: 0.35V Min.	2.35V Typ.		LVPECL: 1.55V Typ.
	VOL:	0.4V Max.	0.35V Max.	1.60V Typ.		LVPECL: 0.8V Typ.
Output Load Conditions:		15pF Max.		50Ω		LVPECL: 50Ω LVDS: 100Ω
Rise/Fall Time:		2ns Max.		600ps Max.	400ps Max.	

Fig. 1

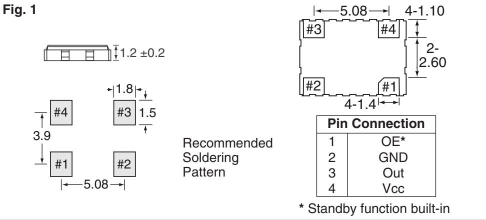

Pin Connection	
1	OE*
2	GND
3	Out
4	Vcc

* Standby function built-in

Fig. 2

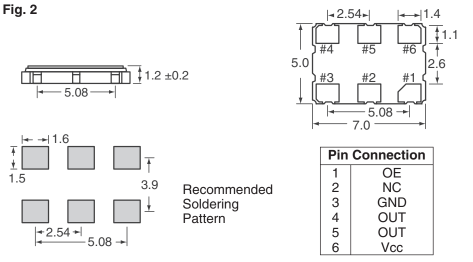

Pin Connection	
1	OE
2	NC
3	GND
4	OUT
5	OUT
6	Vcc

Frequency (MHz)	Frequency Stability	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epson Part No.
Fig. 1 — EG-2001CA Series									
106.2500	±100ppm	SE1008CT-ND	23.63	20.25	14.85	SE1008TR-ND	1,000	9000.00	EG-2001CA 106.2500M-PCHL0
125.0000	±100ppm	SE1009CT-ND	23.63	20.25	14.85	SE1009TR-ND	1,000	9000.00	EG-2001CA 125.0000M-PCHL0
133.0000	±100ppm	SE1007CT-ND	23.63	20.25	14.85	SE1007TR-ND	250	3375.00	EG-2001CA 133.0000M-PCHL3
Fig. 1 — EG-2021CA Series									
125.0000	±50ppm	SER3654-ND†	34.91	29.93	21.95	—	—	—	EG-2021CA 125.0000M-CGPNB
Fig. 2 — EG-2101CA LVPECL Series									
125.0000	±100ppm	SE3610CT-ND	57.23	49.05	35.97	SE3610TR-ND	250	8175.00	EG-2101CA 125.0000M-PCHL3
155.5200	±100ppm	SE3611CT-ND	57.23	49.05	35.97	SE3611TR-ND	250	8175.00	EG-2101CA 155.5200M-PCHL3
156.2500	±100ppm	SE3612CT-ND	63.53	54.45	39.93	SE3612TR-ND	250	9075.00	EG-2101CA 156.2500M-PCHL3
159.3750	±100ppm	SE3613CT-ND	63.53	54.45	39.93	SE3613TR-ND	250	9075.00	EG-2101CA 159.3750M-PCHL3
161.1328	±100ppm	SE3614CT-ND	63.53	54.45	39.93	SE3614TR-ND	250	9075.00	EG-2101CA 161.1328M-PCHL3
250.0000	±100ppm	SE3615CT-ND	63.53	54.45	39.93	SE3615TR-ND	250	9075.00	EG-2101CA 250.0000M-PCHL3
Fig. 2 — EG-2102CA LVPECL Series									
106.2500	±50ppm	SER3637CT-ND	52.76	45.23	33.17	SER3637TR-ND	250	7537.50	EG-2102CA 106.2500M-PGPNL3
125.0000	±100ppm	SER3638CT-ND	63.00	54.00	39.60	SER3638TR-ND	250	9000.00	EG-2102CA 125.0000M-PHPAL3
156.2500	±100ppm	SER3639CT-ND	63.00	54.00	39.60	SER3639TR-ND	250	9000.00	EG-2102CA 156.2500M-PHPAL3
200.0000	±100ppm	SER3655-ND†	69.30	59.40	43.56	—	—	—	EG-2102CA 200.0000M-PHPAB
212.5000	±100ppm	SER3656-ND†	69.30	59.40	43.56	—	—	—	EG-2102CA 212.5000M-PHPAB
312.5000	±100ppm	SER3657-ND†	69.30	59.40	43.56	—	—	—	EG-2102CA 312.5000M-PHPAB
Fig. 2 — EG-2121CA LVPECL Series									
125.0000	±100ppm	SE3616CT-ND	69.30	59.40	43.56	SE3616TR-ND	250	9900.00	EG-2121CA 125.0000M-PHPAL3
100.0000	±100ppm	SER3660-ND†	54.60	46.80	34.32	—	—	—	EG-2121CA 100.0000M-PHPAB
125.0000	±50ppm	SER3640CT-ND	79.80	68.40	50.16	SER3640TR-ND	250	11400.00	EG-2121CA 125.0000M-PGPAL3
125.0000	±50ppm	SER3662-ND†	72.45	62.10	45.54	—	—	—	EG-2121CA 125.0000M-PGPNB
156.2500	±50ppm	SER3641CT-ND	85.31	73.13	53.63	SER3641TR-ND	250	12187.50	EG-2121CA 156.2500M-PGPAL3
200.0000	±100ppm	SER3667-ND†	74.03	63.45	46.53	—	—	—	EG-2121CA 200.0000M-PHPAB
212.5000	±100ppm	SER3668-ND†	74.03	63.45	46.53	—	—	—	EG-2121CA 212.5000M-PHPAB
312.5000	±100ppm	SER3671-ND†	74.03	63.45	46.53	—	—	—	EG-2121CA 312.5000M-PHPAB
Fig. 2 — EG-2121CA LVDS Series									
100.0000	±50ppm	SER3658-ND†	77.18	66.15	48.51	—	—	—	EG-2121CA 100.0000M-LGPAB
100.0000	±100ppm	SER3659-ND†	54.60	46.80	34.32	—	—	—	EG-2121CA 100.0000M-LHPAB
125.0000	±100ppm	SER3661-ND†	69.30	59.40	43.56	—	—	—	EG-2121CA 125.0000M-LHPAB
156.2500	±100ppm	SER3663-ND†	74.03	63.45	46.53	—	—	—	EG-2121CA 156.2500M-LHPAB
200.0000	±50ppm	SER3664-ND†	85.31	73.13	53.63	—	—	—	EG-2121CA 200.0000M-LGPAB
200.0000	±50ppm	SER3665-ND†	80.33	68.85	50.49	—	—	—	EG-2121CA 200.0000M-LGPNB
200.0000	±100ppm	SER3666-ND†	74.03	63.45	46.53	—	—	—	EG-2121CA 200.0000M-LHPAB
250.0000	±50ppm	SER3669-ND†	85.31	73.13	53.63	—	—	—	EG-2121CA 250.0000M-LGPAB
312.5000	±50ppm	SER3670-ND†	85.31	73.13	53.63	—	—	—	EG-2121CA 312.5000M-LGPAB

† Tube

EPSON TOYOCOM

SG615 Series Surface Mount Quartz Crystal Oscillators

Digi-Reel®

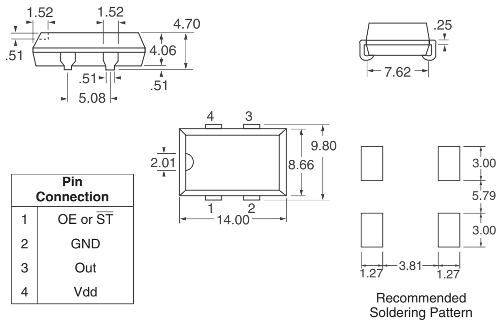

Pin Connection	
1	OE or $\overline{\text{ST}}$
2	GND
3	Out
4	Vdd

Recommended Soldering Pattern

Specifications:	SG-615P	SG-615PTJ	SG-615PH	SG-615PCV	SG-615PCG
Supply Voltage	5V±.5V			2.7V ~ 5.5V	2.7V ~ 3.6V
Storage Temperature	-55°C ~ 125°C				
Operating Temperature	-20°C ~ 70°C			-10°C ~ 70°C	-40°C ~ 85°C
Frequency Stability	Parts ending in MB ±50ppm, MC ±100ppm				
Current Consumption	23mA Max.	35mA Max.		50mA Max.	12mA Max.
Output Disable Current	12mA Max.	28mA Max.	20mA Max.	27mA Max.	10mA Max.
Oscillation Start-up Time	4ms Max.	10ms Max.			12ms Max.
Duty					
CMOS	40% ~ 60%	—	40% ~ 60%	35% ~ 60%	45% ~ 55%
TTL	40% ~ 60%	45% ~ 55%	—		
Output Voltage					
VOH	Vcc -.4V Min.	2.4V Min.	Vcc -.4VMin.	Vcc -.5V	Vcc -.4VMin.
VOL	.4V Max.				
Output Enable / Disable Input Volt.					
VIH	2V Min.	3.5V Min.	2V Min.	.7V Min.	70% Vcc Min.
VIL	.8V Max.	1.5V Max.	.8V Max.	.2V Max.	20% Vcc Max.
Output Fall Time					
CMOS	8ns Max.	—	7ns Max.	4ns Max.	
TTL	8ns Max.	5ns Max.	—		

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Epson Part No.
		1	10	50	Qty.	Pricing	
SG-615P (CMOS, TTL compatible type)							
1.54400	SE2217CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 1.5440MC0
1.84320	SE2201CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 1.8432MC0
2.00000	SE2202CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.0000MC0
2.04800	SE2218CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.0480MC0
2.45760	SE2203CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.4576MC0
3.07200	SE2219CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 3.0720MC0
3.57900	SE2222CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 3.579545MC0
3.68640	SE2204CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 3.6864MC0
4.00000	SE2205CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 4.0000MC0
5.00000	SE2224CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 5.0000MC0
6.00000	SE2207CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 6.0000MC0
6.14400	SE2226CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 6.1440MC0
7.37200	SE2227CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 7.3728MC0
8.19200	SE2228CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 8.1920MC0
9.83000	SE2229CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 9.8300MC0
10.00000	SE2209CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 10.0000MC0
11.05900	SE2232CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 11.0592MC0
12.28800	SE2233CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 12.2880MC0
14.31818	SE2211CT-ND◆	5.25	4.50	3.30	—	—	SG-615P 14.31818MC0
14.74560	SE3619CT-ND	5.25	4.50	3.30	250	750.00	SG-615P 14.7456MC3
16.00000	SE2212CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 16.0000MC0
18.43200	SE2213CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 18.4320MC0
18.86900	SE2238CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 18.8696MC0
19.66000	SE2239CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 19.6608MC0
20.00000	SE2214CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 20.0000MC0
20.48000	SE2240CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 20.4800MC0
22.11800	SE2241CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 22.1184MC0
24.00000	SE2215CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 24.0000MC0
25.00000	SE3620CT-ND	5.83	5.00	3.67	250	832.50	SG-615P 25.0000MB3
25.00000	SE2242CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 25.0000MC0
SG-615P (CMOS, TTL compatible type) — RoHS Compliant							
1.54400	SER2217CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 1.5440MC0:ROHS
1.84320	SER2201CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 1.8432MC0:ROHS
2.00000	SER2202CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.0000MC0:ROHS
2.04800	SER2218CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.0480MC0:ROHS
2.45760	SER2203CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 2.4576MC0:ROHS
3.07200	SER2219CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 3.0720MC0:ROHS
3.68640	SER2204CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 3.6864MC0:ROHS
4.00000	SER2205CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 4.0000MC0:ROHS
5.00000	SER2224CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 5.0000MC0:ROHS
6.00000	SER2207CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 6.0000MC0:ROHS
6.14400	SER2226CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 6.1440MC0:ROHS
7.37280	SER2227CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 7.3728MC0:ROHS
8.19200	SER2228CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 8.1920MC0:ROHS
9.83000	SER2229CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 9.8300MC0:ROHS
10.00000	SER2209CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 10.0000MC0:ROHS
11.05920	SER2232CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 11.0592MC0:ROHS
12.00000	SER2210CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 12.0000MC0:ROHS
12.28800	SER2233CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 12.2880MC0:ROHS
14.31818	SER2211CT-ND	3.50	3.00	2.50	—	—	SG-615P 14.31818MC0:ROHS
14.74560	SER3619CT-ND	5.25	4.50	3.30	250	750.00	SG-615P 14.7456MC3:ROHS
16.00000	SER2212CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 16.0000MC0:ROHS
18.43200	SER2213CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 18.4320MC0:ROHS
19.66080	SER2239CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 19.6608MC0:ROHS
20.00000	SER2214CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 20.0000MC0:ROHS
22.11840	SER2241CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 22.1184MC0:ROHS
24.00000	SER2215CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615P 24.0000MC0:ROHS
SG-615PCG (CMOS compatible type) — RoHS Compliant							
25.00000	SER3621CT-ND	5.83	5.00	3.67	250	832.50	SG-615PCG 25.0000MB3:ROHS
SG-615PCV (CMOS compatible type)							
75.00000	SE3511CT-ND	5.85	4.88	3.40	1,000	2550.00	SG-615PCV 75.000MC0
106.25000	SE3515CT-ND	6.45	5.38	3.85	1,000	2900.00	SG-615PCV 106.250MC0
SG-615PH (CMOS compatible type)							
32.00000	SE2337CT-ND	3.50	3.00	2.50	—	—	SG-615PH 32.0000MC0
33.00000	SE2339CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PH 33.0000MC0
33.33300	SE2340CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PH 33.3333MC0
36.00000	SE2341CT-ND	5.25	4.50	3.30	—	—	SG-615PH 36.0000MC0
40.00000	SE2343CT-ND	5.25	4.50	3.30	—	—	SG-615PH 40.0000MC0
44.90000	SE2344CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PH 44.9000MC0
55.00000	SE2347CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PH 55.0000MC0
66.66600	SE2352CT-ND	5.46	4.68	3.44	1,000	2080.00	SG-615PH 66.6660MC0
SG-615PH (CMOS compatible type) — RoHS Compliant							
32.00000	SER2337CT-ND	3.50	3.00	2.50	—	—	SG-615PH 32.0000MC0:ROHS
33.00000	SER2339CT-ND	5.25	4.50	3.30	—	—	SG-615PH 33.0000MC0:ROHS
40.00000	SER2343CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PH 40.0000MC0:ROHS
55.00000	SER2347CT-ND	5.25	4.50	3.30	—	—	SG-615PH 55.0000MC0:ROHS
SG-615PTJ (TTL compatible type)							
27.00000	SE2326CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PTJ 27.0000MC0
30.00000	SE2330CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PTJ 30.0000MC0
40.00000	SE3622CT-ND	5.25	4.50	3.30	250	750.00	SG-615PTJ 40.0000MC3
SG-615PTJ (TTL compatible type) — RoHS Compliant							
27.00000	SER2326CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PTJ 27.0000MC0:ROHS
30.00000	SER2330CT-ND	5.25	4.50	3.30	1,000	2000.00	SG-615PTJ 30.0000MC0:ROHS

† For Tape and Reel part number, change CT-ND to TR-ND. ◆ *RoHS Compliant*

EPSON TOYOCOM

SG636PCE Series Surface Mount Quartz Crystal Oscillators

Digi-Reel®

Specifications:
- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum

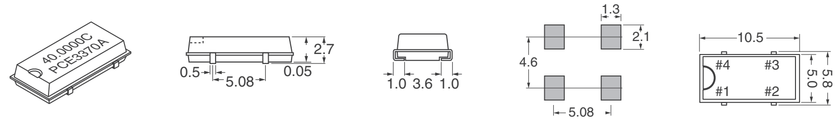

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	Epson Part No.
2.4576	SE2801CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 2.4576MC0
3.6864	SE2806CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 3.6864MC0
4.0000	SE2807CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 4.0000MC0
5.0000	SE2810CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 5.0000MC0
6.0000	SE2812CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 6.0000MC0
8.0000	SE2815CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 8.0000MC0
8.1920	SE2816CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 8.1920MC0
10.0000	SE2818CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 10.0000MC0
10.2400	SE2819CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 10.2400MC0
12.0000	SE2822CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 12.0000MC0
14.7456	SE2825CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 14.7456MC0
15.0000	SE2826CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 15.0000MC0
16.0000	SE2827CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 16.0000MC0
18.4320	SE2830CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 18.4320MC0
20.0000	SE2833CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 20.0000MC0
24.0000	SE2836CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 24.0000MC0
25.0000	SE2837CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 25.0000MC0
25.1750	SE2838CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 25.1750MC0
27.0000	SE2839CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 27.0000MC0
29.4912	SE2842CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 29.4912MC0
30.0000	SE2843CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 30.0000MC0
32.0000	SE2844CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 32.0000MC0
33.0000	SE2847CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 33.0000MC0
33.3333	SE2848CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 33.3333MC0
36.0000	SE2849CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 36.0000MC0
38.0000	SE2850CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 38.0000MC0
40.0000	SE2851CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 40.0000MC0

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	Epson Part No.
RoHS Compliant						
2.4576	SER2801CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 2.4576MC0:ROHS
3.6864	SER2806CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 3.6864MC0:ROHS
4.0000	SER2807CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 4.0000MC0:ROHS
5.0000	SER2810CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 5.0000MC0:ROHS
6.0000	SER2812CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 6.0000MC0:ROHS
8.0000	SER2815CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 8.0000MC0:ROHS
8.1920	SER2816CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 8.1920MC0:ROHS
10.0000	SER2818CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 10.0000MC0:ROHS
12.0000	SER2822CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 12.0000MC0:ROHS
14.7456	SER2825CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 14.7456MC0:ROHS
16.0000	SER2827CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 16.0000MC0:ROHS
18.4320	SER2830CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 18.4320MC0:ROHS
20.0000	SER2833CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 20.0000MC0:ROHS
24.0000	SER2836CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 24.0000MC0:ROHS
25.0000	SER2837CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 25.0000MC0:ROHS
25.1750	SER2838CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 25.1750MC0:ROHS
27.0000	SER2839CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 27.0000MC0:ROHS
29.4912	SER2842CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 29.4912MC0:ROHS
30.0000	SER2843CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 30.0000MC0:ROHS
32.0000	SER2844CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 32.0000MC0:ROHS
33.0000	SER2847CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 33.0000MC0:ROHS
33.3333	SER2848CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 33.3333MC0:ROHS
36.0000	SER2849CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 36.0000MC0:ROHS
40.0000	SER2851CT-ND	6.56	5.63	4.13	2500.00	SG-636PCE 40.0000MC0:ROHS

† For Tape and Reel part number, change CT-ND to TR-ND.

SG636PCV Series Surface Mount Quartz Crystal Oscillators

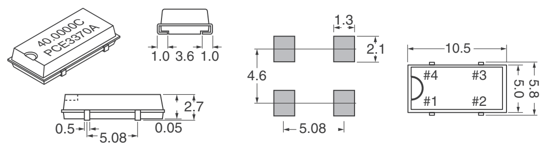

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
- **Supply Voltage:** 3.3V ±.3V - **Operating Temperature:** -10°C ~ 70°C - **Storage Temperature:** -55°C ~ 100°C - **Frequency Tolerance:** ±100ppm - **Supply Current:** 9mA - **Disable Current:** 5mA - **Duty @ CMOS Level (VDD/2):** 45% ~ 55% - **Fall Time CMOS:** 5ns Maximum - **Rise Time CMOS:** 5ns Maximum - **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Epson Part No.
55.0000	SE2855CT-ND	6.15	5.13	3.60	SG-636PCV 55.000MC0

SG636PTF Series Surface Mount Quartz Crystal Oscillators

Digi-Reel®

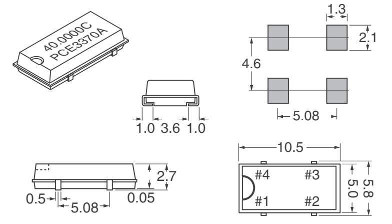

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
- **Supply Voltage:** 5V ±.5V - **Operating Temperature:** -20°C ~ 70°C - **Storage Temperature:** -55°C ~ 100°C - **Frequency Tolerance:** ±100ppm - **Supply Current:** 17mA - **Disable Current:** 10mA - **Duty @ CMOS Level (VDD/2):** 40% ~ 60% - **Fall Time CMOS:** 7ns Maximum - **Rise Time CMOS:** 7ns Maximum - **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 250	Epson Part No.
25.0000	SE3623CT-ND	5.25	4.50	3.30	—	—	SG-636PTF 25.0000MC3
RoHS Compliant							
25.0000	SER3623CT-ND	5.25	4.50	3.30	SER3623TR-ND	750.00	SG-636PTF 25.0000MC3:ROHS
40.0000	SER3624CT-ND	5.25	4.50	3.30	—	—	SG-636PTF 40.0000MC3:ROHS

Voltage Controlled Crystal Oscillators (VCXO) VG-1011JA Series

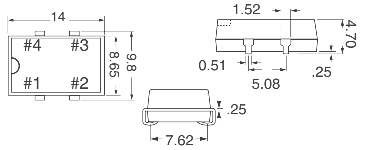

Pin Connection	
1	VC
2	GND
3	Out
4	Vdd

Features: • Reflowable and high density • SMD mounting • Using the heat-resisting type AT cut quartz crystal allows almost the same temperature soldering as universal SMD IC • Using C-MOS IC allows low current consumption and assures high reliability

Specifications: • **Frequency Adjustment Range:** ±75ppm • **Frequency Control Sensitivity:** 2.5, ±2.0V, ±10% • **Supply Voltage:** 5V ±.5V • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Frequency Tolerance:** ±20ppm • **Supply Current:** 13mA • **Output Voltage:** .4V (VOL) • **Output Current:** -0.8mA IOH; .8mA IOL • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Control Voltage:** 4.5V ~ 5.5V • **Fall Time:** 8ns • **Rise Time:** 8ns

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Epson Part No.
19.2000	SE3605CT-ND	15.96	13.68	11.40	VG-1011JA 19.2000MAVK0

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPSON TOYOCOM CMOS/TTL Oscillators

Features: • High reliability by cylinder type AT Crystal • Automatic mountable • Lower current consumption by C-MOS IC • TTL-10 output load by using C-MOS IC • DIP 14-pin plastic package compatible with metal package oscillator • DIP 8-pin plastic package compatible with half size metal package oscillator

Half Size

SG-531P, PH, PTJ Pin Connection	
1	OE
4	GND
5	Out
8	Vdd

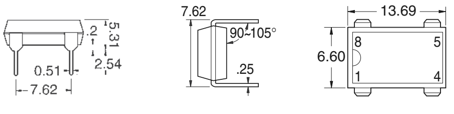

Full Size

SG-51P, PH, PTJ Pin Connection	
1	OE
7	GND
8	Out
14	Vdd

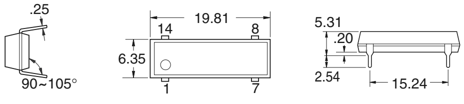

Specifications	SG-531P SG-51P	SG-531PTJ SG-51PTJ	SG-531PH SG-51PH
Supply Voltage	5.0V ± 0.5V		
Storage Temperature	-55°C ~ 125°C		
Operating Temperature	-20°C ~ 70°C		
Frequency Tolerance	±100ppm		
Current Consumption	23mA Max.	35mA Max.	
Output Disable Current	12mA Max.	28mA Max.	20mA Max.
Duty			
CMOS	40% ~ 60%	—	40% ~ 60%
TTL	40% ~ 60%	45% ~ 55%	—
Output Voltage			
VOH	Vcc -0.4V Min.	2.4V Min.	Vcc -0.4V Min.
VOL	0.4V Max.		
Output Enable / Disable Input Voltage			
VIH	2.0V Min.	3.5V Min.	2.0V Min.
VIL	0.8V Max.	1.5V Max.	0.8V Max.
Output Rise Time	8ns Max.	—	7ns Max.
Output Fall Time	8ns Max.	5ns Max.	—
Oscillation Start-up Time	4ms Max.	10ms Max.	

Series	Frequency (MHz)	Digi-Key Part No.	Price Each			Epson Part No.
			1	10	50	
Half Size						
SG-531P CMOS/TTL with Output Enable	1.544000	SE1216-ND	5.15	4.41	3.24	SG-531P 1.5440MC
	1.843200	SE1201-ND	5.15	4.41	3.24	SG-531P 1.8432MC
	2.000000	SE1217-ND	5.15	4.41	3.24	SG-531P 2.0000MC
	2.048000	SE1218-ND	5.15	4.41	3.24	SG-531P 2.0480MC
	2.457600	SE1202-ND	5.15	4.41	3.24	SG-531P 2.4576MC
	3.072000	SE1219-ND	5.15	4.41	3.24	SG-531P 3.0720MC
	3.088000	SE1220-ND	5.15	4.41	3.24	SG-531P 3.0880MC
	3.276800	SE1221-ND	5.15	4.41	3.24	SG-531P 3.2768MC
	3.579545	SE1222-ND	5.15	4.41	3.24	SG-531P 3.579545MC
	3.686000	SE1223-ND	5.15	4.41	3.24	SG-531P 3.6864MC
	4.000000	SE1203-ND	5.15	4.41	3.24	SG-531P 4.0000MC
	4.096000	SE1224-ND	5.15	4.41	3.24	SG-531P 4.0960MC
	4.915200	SE1204-ND	5.15	4.41	3.24	SG-531P 4.9152MC
	5.000000	SE1205-ND	5.15	4.41	3.24	SG-531P 5.0000MC
	5.068800	SE1225-ND	5.15	4.41	3.24	SG-531P 5.0688MC
	6.000000	SE1206-ND	5.15	4.41	3.24	SG-531P 6.0000MC
	6.144000	SE1226-ND	5.15	4.41	3.24	SG-531P 6.1440MC
	7.372800	SE1227-ND	5.15	4.41	3.24	SG-531P 7.3728MC
	8.000000	SE1207-ND	5.15	4.41	3.24	SG-531P 8.0000MC
	8.192000	SE1228-ND	5.15	4.41	3.24	SG-531P 8.1920MC
	9.830400	SE1229-ND	5.15	4.41	3.24	SG-531P 9.8304MC
	10.000000	SE1208-ND	5.15	4.41	3.24	SG-531P 10.0000MC
	10.240000	SE1230-ND	5.15	4.41	3.24	SG-531P 10.2400MC
	11.000000	SE1231-ND	5.15	4.41	3.24	SG-531P 11.0000MC
	11.059200	SE1232-ND	5.15	4.41	3.24	SG-531P 11.0592MC
	12.000000	SE1209-ND	5.15	4.41	3.24	SG-531P 12.0000MC
	12.288000	SE1233-ND	5.15	4.41	3.24	SG-531P 12.2880MC
	14.318180	SE1210-ND	5.15	4.41	3.24	SG-531P 14.31818MC
	14.745600	SE1234-ND	5.15	4.41	3.24	SG-531P 14.7456MC
	15.000000	SE1235-ND	5.15	4.41	3.24	SG-531P 15.0000MC
	16.257000	SE1236-ND	5.15	4.41	3.24	SG-531P 16.2570MC
	18.000000	SE1237-ND	5.15	4.41	3.24	SG-531P 18.0000MC
	18.432000	SE1238-ND	5.15	4.41	3.24	SG-531P 18.4320MC
	18.869600	SE1239-ND	5.15	4.41	3.24	SG-531P 18.8696MC
	19.660800	SE1240-ND	5.15	4.41	3.24	SG-531P 19.6608MC
	20.480000	SE1241-ND	5.15	4.41	3.24	SG-531P 20.4800MC
	22.118400	SE1242-ND	5.15	4.41	3.24	SG-531P 22.1184MC
	24.000000	SE1213-ND	5.15	4.41	3.24	SG-531P 24.0000MC
	25.175000	SE1215-ND	5.15	4.41	3.24	SG-531P 25.1750MC
	25.576000	SE1243-ND	5.15	4.41	3.24	SG-531P 25.5760MC
SG-531PH CMOS with Output Enable	32.514000	SE1112-ND	5.15	4.41	3.24	SG-531PH 32.5140MC
	32.768000	SE1113-ND	5.15	4.41	3.24	SG-531PH 32.7680MC
	33.333000	SE1115-ND	5.15	4.41	3.24	SG-531PH 33.3330MC
	36.000000	SE1116-ND	5.15	4.41	3.24	SG-531PH 36.0000MC
	42.000000	SE1119-ND	5.15	4.41	3.24	SG-531PH 42.0000MC
	44.900000	SE1120-ND	5.15	4.41	3.24	SG-531PH 44.9000MC
	65.000000	SE1127-ND	5.41	4.64	3.40	SG-531PH 65.0000MC
	66.000000	SE1128-ND	5.41	4.64	3.40	SG-531PH 66.0000MC
	66.666700	SE1129-ND	5.41	4.64	3.40	SG-531PH 66.6667MC
SG-531PTJ TTL with Output Enable	27.000000	SE1817-ND	5.15	4.41	3.24	SG-531PTJ 27.0000MC
	28.000000	SE1818-ND	5.15	4.41	3.24	SG-531PTJ 28.0000MC
	28.322000	SE1819-ND	5.15	4.41	3.24	SG-531PTJ 28.3220MC
	28.636360	SE1820-ND	5.15	4.41	3.24	SG-531PTJ 28.63636MC
	29.491000	SE1821-ND	5.15	4.41	3.24	SG-531PTJ 29.4910MC
	30.000000	SE1822-ND	5.15	4.41	3.24	SG-531PTJ 30.0000MC
	32.514000	SE1824-ND	5.15	4.41	3.24	SG-531PTJ 32.5140MC
	32.768000	SE1825-ND	5.15	4.41	3.24	SG-531PTJ 32.7680MC
	33.000000	SE1826-ND	5.15	4.41	3.24	SG-531PTJ 33.0000MC
	33.333300	SE1827-ND	5.15	4.41	3.24	SG-531PTJ 33.3333MC
	36.000000	SE1828-ND	5.15	4.41	3.24	SG-531PTJ 36.0000MC

Series	Frequency (MHz)	Digi-Key Part No.	Price Each			Epson Part No.
			1	10	50	
Full Size						
SG-51P CMOS/TTL with Output Enable	1.544000	SE1716-ND	5.15	4.41	3.24	SG-51P 1.5440MC
	1.843200	SE1701-ND	5.15	4.41	3.24	SG-51P 1.8432MC
	2.000000	SE1717-ND	5.15	4.41	3.24	SG-51P 2.0000MC
	2.048000	SE1718-ND	5.15	4.41	3.24	SG-51P 2.0480MC
	3.072000	SE1719-ND	5.15	4.41	3.24	SG-51P 3.0720MC
	3.088000	SE1720-ND	5.15	4.41	3.24	SG-51P 3.0880MC
	3.276800	SE1721-ND	5.15	4.41	3.24	SG-51P 3.2768MC
	3.579545	SE1722-ND	5.15	4.41	3.24	SG-51P 3.579545MC
	3.686400	SE1723-ND	5.15	4.41	3.24	SG-51P 3.6864MC
	4.000000	SE1703-ND	5.15	4.41	3.24	SG-51P 4.0000MC
	4.096000	SE1724-ND	5.15	4.41	3.24	SG-51P 4.0960MC
	4.915200	SE1704-ND	5.15	4.41	3.24	SG-51P 4.9152MC
	5.000000	SE1705-ND	5.15	4.41	3.24	SG-51P 5.0000MC
	5.068000	SE1725-ND	5.15	4.41	3.24	SG-51P 5.0680MC
	6.000000	SE1706-ND	5.15	4.41	3.24	SG-51P 6.0000MC
	6.144800	SE1726-ND	5.15	4.41	3.24	SG-51P 6.1448MC
	7.372800	SE1727-ND	5.15	4.41	3.24	SG-51P 7.3728MC
	8.000000	SE1707-ND	5.15	4.41	3.24	SG-51P 8.0000MC
	8.192000	SE1728-ND	5.15	4.41	3.24	SG-51P 8.1920MC
	9.830400	SE1729-ND	5.15	4.41	3.24	SG-51P 9.8304MC
	10.000000	SE1708-ND	5.15	4.41	3.24	SG-51P 10.0000MC
	10.240000	SE1730-ND	5.15	4.41	3.24	SG-51P 10.2400MC
	11.000000	SE1731-ND	5.15	4.41	3.24	SG-51P 11.0000MC
	11.059200	SE1732-ND	5.15	4.41	3.24	SG-51P 11.0592MC
	12.000000	SE1709-ND	5.15	4.41	3.24	SG-51P 12.0000MC
	12.288000	SE1733-ND	5.15	4.41	3.24	SG-51P 12.2880MC
	14.318180	SE1710-ND	5.15	4.41	3.24	SG-51P 14.318MC
	14.745600	SE1734-ND	5.15	4.41	3.24	SG-51P 14.7456MC
	15.000000	SE1735-ND	5.15	4.41	3.24	SG-51P 15.0000MC
	16.000000	SE1711-ND	5.15	4.41	3.24	SG-51P 16.0000MC
	16.257000	SE1736-ND	5.15	4.41	3.24	SG-51P 16.2570MC
	18.000000	SE1737-ND	5.15	4.41	3.24	SG-51P 18.0000MC
	18.432000	SE1738-ND	5.15	4.41	3.24	SG-51P 18.4320MC
	18.869000	SE1739-ND	5.15	4.41	3.24	SG-51P 18.8690MC
	19.660800	SE1740-ND	5.15	4.41	3.24	SG-51P 19.6608MC
	20.000000	SE1712-ND	5.15	4.41	3.24	SG-51P 20.0000MC
	20.480000	SE1741-ND	5.15	4.41	3.24	SG-51P 20.4800MC
	22.118000	SE1742-ND	5.15	4.41	3.24	SG-51P 22.1184MC
	24.000000	SE1713-ND	5.15	4.41	3.24	SG-51P 24.0000MC
	24.576000	SE1743-ND	5.15	4.41	3.24	SG-51P 24.5760MC
	25.000000	SE1714-ND	5.15	4.41	3.24	SG-51P 25.0000MC
	25.175000	SE1715-ND	5.15	4.41	3.24	SG-51P 25.1750MC
SG-51PH CMOS/TTL with Output Enable	33.000000	SE1903-ND	5.15	4.41	3.24	SG-51PH 33.0000MC
	36.000000	SE1905-ND	5.15	4.41	3.24	SG-51PH 36.0000MC
	38.000000	SE1906-ND	5.15	4.41	3.24	SG-51PH 38.0000MC
	42.000000	SE1908-ND	5.15	4.41	3.24	SG-51PH 42.0000MC
	44.900000	SE1909-ND	5.15	4.41	3.24	SG-51PH 44.9000MC
	46.000000	SE1910-ND	5.15	4.41	3.24	SG-51PH 46.0000MC
	55.000000	SE1913-ND	5.15	4.41	3.24	SG-51PH 55.0000MC
	60.000000	SE1914-ND	5.41	4.64	3.40	SG-51PH 60.0000MC
SG-51PTJ TTL with Output Enable	28.000000	SE1806-ND	5.15	4.41	3.24	SG-51PTJ 28.0000MC
	28.322000	SE1807-ND	5.15	4.41	3.24	SG-51PTJ 28.3220MC
	28.636360	SE1808-ND	5.15	4.41	3.24	SG-51PTJ 28.63636MC
	29.491200	SE1809-ND	5.15	4.41	3.24	SG-51PTJ 29.4912MC
	30.000000	SE1810-ND	5.15	4.41	3.24	SG-51PTJ 30.0000MC
	32.000000	SE1811-ND	5.15	4.41	3.24	SG-51PTJ 32.0000MC
	32.768000	SE1813-ND	5.15	4.41	3.24	SG-51PTJ 32.7680MC
	33.000000	SE1814-ND	5.15	4.41	3.24	SG-51PTJ 33.0000MC
	33.333300	SE1815-ND	5.15	4.41	3.24	SG-51PTJ 33.3333MC
	36.0 00000	SE1816-ND	5.15	4.41	3.24	SG-51PTJ 36.0000MC

(Continued)

EPSON TOYOCOM

CMOS/TTL Oscillators *(Cont.)*

Series	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
		Half Size — RoHS Compliant				
SG-531P CMOS/TTL with Output Enable	1.544000	SER1216-ND	5.15	4.41	3.24	SG-531P 1.5440MC:ROHS
	1.843200	SER1201-ND	5.15	4.41	3.24	SG-531P 1.8432MC:ROHS
	2.457600	SER1202-ND	5.15	4.41	3.24	SG-531P 2.4576MC:ROHS
	3.276800	SER1221-ND	5.15	4.41	3.24	SG-531P 3.2768MC:ROHS
	3.579545	SER1222-ND	5.15	4.41	3.24	SG-531P 3.579545MC:ROHS
	3.686400	SER1223-ND	5.15	4.41	3.24	SG-531P 3.6864MC:ROHS
	4.000000	SER1203-ND	5.15	4.41	3.24	SG-531P 4.0000MC:ROHS
	4.096000	SER1224-ND	5.15	4.41	3.24	SG-531P 4.0960MC:ROHS
	4.915200	SER1204-ND	5.15	4.41	3.24	SG-531P 4.9152MC:ROHS
	7.372800	SER1227-ND	5.15	4.41	3.24	SG-531P 7.3728MC:ROHS
	8.000000	SER1207-ND	5.15	4.41	3.24	SG-531P 8.0000MC:ROHS
	8.192000	SER1228-ND	5.15	4.41	3.24	SG-531P 8.1920MC:ROHS
	10.000000	SER1208-ND	5.15	4.41	3.24	SG-531P 10.0000MC:ROHS
	11.059200	SER1232-ND	5.15	4.41	3.24	SG-531P 11.0592MC:ROHS
	12.288000	SER1233-ND	5.15	4.41	3.24	SG-531P 12.2880MC:ROHS
SG-531PH CMOS with Output Enable	14.745600	SER1234-ND	5.15	4.41	3.24	SG-531P 14.7456MC:ROHS
	18.432000	SER1238-ND	5.15	4.41	3.24	SG-531P 18.4320MC:ROHS
	19.660800	SER1240-ND	5.15	4.41	3.24	SG-531P 19.6608MC:ROHS
	22.118400	SER1242-ND	5.15	4.41	3.24	SG-531P 22.1184MC:ROHS
	24.000000	SER1213-ND	5.15	4.41	3.24	SG-531P 24.0000MC:ROHS
	32.000000	SER1111-ND	5.15	4.41	3.24	SG-531PH 32.0000MC:ROHS
	66.000000	SER1128-ND	5.41	4.64	3.40	SG-531PH 66.0000MC:ROHS
SG-531PTJ TTL with Output Enable	27.000000	SER1817-ND	5.15	4.41	3.24	SG-531PTJ 27.0000MC:ROHS
	28.636360	SER1820-ND	5.15	4.41	3.24	SG-531PTJ 28.63636MC:ROHS
	29.491000	SER1821-ND	5.15	4.41	3.24	SG-531PTJ 29.4910MC:ROHS
	33.000000	SER1826-ND	5.15	4.41	3.24	SG-531PTJ 33.0000MC:ROHS
		Full Size — RoHS Compliant				
SG-51P CMOS/TTL with Output Enable	1.843200	SER1701-ND	5.15	4.41	3.24	SG-51P 1.8432MC:ROHS
	2.000000	SER1717-ND	5.15	4.41	3.24	SG-51P 2.0000MC:ROHS
	4.000000	SER1703-ND	5.15	4.41	3.24	SG-51P 4.0000MC:ROHS
	6.000000	SER1706-ND	5.15	4.41	3.24	SG-51P 6.0000MC:ROHS
	7.372800	SER1727-ND	5.15	4.41	3.24	SG-51P 7.3728MC:ROHS
	8.000000	SER1707-ND	5.15	4.41	3.24	SG-51P 8.0000MC:ROHS
	10.000000	SER1708-ND	5.15	4.41	3.24	SG-51P 10.0000MC:ROHS
	12.000000	SER1709-ND	5.15	4.41	3.24	SG-51P 12.0000MC:ROHS
	12.288000	SER1733-ND	5.15	4.41	3.24	SG-51P 12.2880MC:ROHS
	14.745600	SER1734-ND	5.15	4.41	3.24	SG-51P 14.7456MC:ROHS
	16.000000	SER1711-ND	5.15	4.41	3.24	SG-51P 16.0000MC:ROHS
	18.432000	SER1738-ND	5.15	4.41	3.24	SG-51P 18.4320MC:ROHS
	20.000000	SER1712-ND	5.15	4.41	3.24	SG-51P 20.0000MC:ROHS
	24.576000	SER1743-ND	5.15	4.41	3.24	SG-51P 24.5760MC:ROHS
SG-51PTJ TTL with Output Enable	32.000000	SER1811-ND	5.15	4.41	3.24	SG-51PTJ 32.0000MC:ROHS

A462-ND	Aries Electronics Inc., Full Size, 4-Pin Oscillator Sockets......	**$1.15/1**	**$17.25/25**	**$54.05/100**
A463-ND	Aries Electronics Inc., Half Size, 4-Pin Oscillator Sockets.....	**$1.15/1**	**$17.25/25**	**$54.05/100**

Quartz Crystals - C-Type, Cylinder

Specifications:
- **Nominal Frequency**: 32.768kHz • **Operating Temperature**: -10°C ~ 60°C • **Drive Level**: 1.0μW Maximum • **Frequency Tolerance (Standard)**: ±20ppm • **Series Resistance:** C-001R = 35kΩ Maximum (18kΩ Typ.); C-002RX and C-004R = 50kΩ Maximum (30kΩ Typ.); and C-005R = 50kΩ Maximum (37kΩ Typ.)

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-001R	8.0	9.0	ø3.1	ø0.3	1.1
C-002RX	6.0	4.0	ø2.0	ø0.2	0.7
C-004R	5.0	4.0	ø1.5	ø0.18	0.5
C-005R	4.6	4.0	ø1.2	ø0.15	0.3

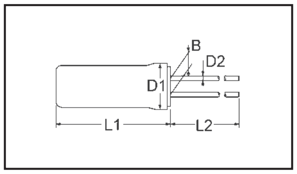

Load Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
12.5	SER3201-ND	.32	.27	.23	C-001R 32.7680K-A:PBFREE
12.5	SER3202-ND	.32	.27	.23	C-002RX 32.7680K-A:PBFREE
6	SER3205-ND	.32	.27	.23	C-002RX 32.7680K-E:PBFREE
12.5	SER3203-ND	1.61	1.38	1.15	C-004R 32.7680K-A:PBFREE
9	SER3204-ND	6.58	5.64	4.70	C-005R 32.7680K-AC:PBFREE

Quartz Crystals - C-2-Type, Cylinder

Specifications: • **Operating Temperature:** -10°C ~ 60°C • **Drive Level:** 1.0μW Maximum • **Crystal Load Capacitance:** All parts have 11pF load capacitance • **Series Resistance Over 20kHz and Under 99kHz:** 35kΩ ~ 15kΩ • **Series Resistance Over 100kHz and Under 200kHz:** 12kΩ ~ 8kΩ

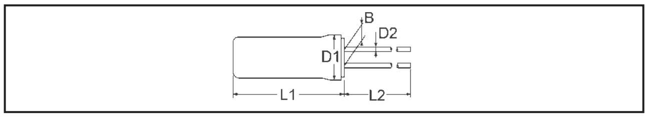

Model	L1 Maximum	L2 Minimum	D1 Maximum	D2	B
C-2-Type	6.0	4.0	ø2.0	ø0.2	0.7

Frequency (kHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
26.6670	SE3303-ND	1.23	1.03	.73	C-2 26.6670K-P
31.2500	SE3308-ND	1.23	1.03	.73	C-2 31.2500K-P
31.5000	SE3309-ND	1.23	1.03	.73	C-2 31.5000K-P
32.9190	SE3312-ND	1.23	1.03	.73	C-2 32.9190KC-P
36.0000	SE3313-ND	1.23	1.03	.73	C-2 36.0000K-P
75.0000	SE3323-ND	1.23	1.03	.73	C-2 75.0000K-P
83.0000	SE3330-ND	1.47	1.23	.87	C-2 83.0000K-P
111.0000	SE3334-ND	1.47	1.23	.87	C-2 111.0000K-P
120.8475	SE3336-ND	1.47	1.23	.87	C-2 120.8475K-P
		RoHS Compliant			
20.0000	SER3301-ND	1.44	1.23	1.03	C-2 20.0000K-P:PBFREE
25.6000	SER3302-ND	1.44	1.23	1.03	C-2 25.6000K-P:PBFREE
26.6670	SER3303-ND	1.44	1.23	1.03	C-2 26.6670K-P:PBFREE
28.0000	SER3304-ND	1.44	1.23	1.03	C-2 28.0000K-P:PBFREE
30.0000	SER3305-ND	1.44	1.23	1.03	C-2 30.0000K-P:PBFREE
31.2500	SER3308-ND	1.44	1.23	1.03	C-2 31.2500K-P:PBFREE
32.0000	SER3310-ND	1.44	1.23	1.03	C-2 32.0000K-P:PBFREE
36.0000	SER3313-ND	1.44	1.23	1.03	C-2 36.0000K-P:PBFREE
38.0000	SER3314-ND	1.58	1.35	1.13	C-2 38.0000KA-P:PBFREE
38.4000	SER3315-ND	1.44	1.23	1.03	C-2 38.4000K-P:PBFREE
40.0000	SER3316-ND	1.44	1.23	1.03	C-2 40.0000K-P:PBFREE
60.0000	SER3320-ND	1.44	1.23	1.03	C-2 60.000K-P:PBFREE
65.5350	SER3322-ND	1.44	1.23	1.03	C-2 65.5350K-P:PBFREE
75.0000	SER3323-ND	1.44	1.23	1.03	C-2 75.0000K-P:PBFREE
76.8000	SER3324-ND	1.44	1.23	1.03	C-2 76.8000K-P:PBFREE
83.0000	SER3330-ND	1.72	1.47	1.23	C-2 83.0000K-P:PBFREE
96.0000	SER3331-ND	1.72	1.47	1.23	C-2 96.0000K-P:PBFREE
100.0000	SER3333-ND	1.72	1.47	1.23	C-2 100-0000K-P:PBFREE
120.0000	SER3335-ND	1.72	1.47	1.23	C-2 120.0000K-P:PBFREE
131.0720	SER3337-ND	2.07	1.77	1.48	C-2 131.0720K-P:PBFREE
149.4750	SER3338-ND	2.07	1.77	1.48	C-2 149.4750K-P:PBFREE

Quartz Crystals - CA-301 Type, Cylinder

Specifications:
- **Operating Temperature:** -20°C ~ 70°C • **Drive Level:** 2mW Maximum • **Recommended Level:** 10μW ~ 100μW Typ. • **Frequency Tolerance (Standard):** ±30ppm • **Load Capacitance:** 18pF

Frequency MHz Over	Under	Series Resistance	Mode
4.0	5.5	150Ω Max.	Fundamental
5.5	6.0	100Ω Max.	
6.0	10.0	80Ω Max.	
10.0	12.0	60Ω Max.	
12.0	16.0	50Ω Max.	
16.0	30.0	40Ω Max.	
30.0	36.0	100Ω Max.	3rd Overtone
36.0	64.0	80Ω Max.	

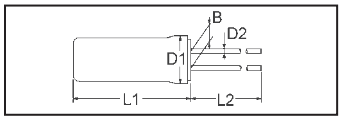

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
Under 5.5MHz	9.3	9.5	ø3.1	ø0.3	1.1
Over 5.5MHz	8.9	9.5	ø3.1	ø0.3	1.1

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
4.433619	SE3406-ND†	1.95	1.67	1.42	CA-301 4.433619M-C
6.144000	SE3410-ND	.96	.80	.56	CA-301 6.1440M-C
7.200000	SE3412-ND	.96	.80	.56	CA-301 7.200M-C
8.432000	SE3416-ND	.96	.80	.56	CA-301 8.432M-C
13.500000	SE3427-ND	.96	.80	.56	CA-301 13.5000M-C
15.000000	SE3432-ND	.96	.80	.56	CA-301 15.000M-C
18.000000	SE3435-ND	.96	.80	.56	CA-301 18.0000M-C
18.432000	SE3436-ND	.96	.80	.56	CA-301 18.4320M-C
19.660800	SE3437-ND	.96	.80	.56	CA-301 19.6608M-C

† Operating Temperature -10°C ~ 60°C

(Continued)

Quartz Crystals - CA-301 Type, Cylinder *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
24.000000	SE3440-ND	.96	.80	.56	CA-301 24.0000M-C
25.175000	SE3442-ND	.96	.80	.56	CA-301 25.1750M-C
27.000000	SE3443-ND	.96	.80	.56	CA-301 27.0000M-C:(FUND)
28.000000	SE3444-ND	.96	.80	.56	CA-301 28.0000M-C:(FUND)
28.322000	SE3445-ND	.96	.80	.56	CA-301 28.3220M-C:(FUND)
32.000000	SE3446-ND	.96	.80	.56	CA-301 32.0000M-C
33.000000	SE3448-ND	.96	.80	.56	CA-301 33.0000M-C
33.333000	SE3449-ND	.96	.80	.56	CA-301 33.3330M-C
36.000000	SE3450-ND	.96	.80	.56	CA-301 36.0000M-C
46.000000	SE3453-ND	.96	.80	.56	CA-301 46.0000M-C
49.860000	SE3454-ND	.96	.80	.56	CA-301 49.8600M-C
50.000000	SE3455-ND	.96	.80	.56	CA-301 50.0000M-C
60.000000	SE3457-ND	1.11	.93	.64	CA-301 60.000M-C
RoHS Compliant					
4.000000	SER3404-ND†	2.49	2.13	1.78	CA-301 4.0000M-C:PBFREE
4.194304	SER3405-ND†	2.49	2.13	1.78	CA-301 4.194304M-C:PBFREE
4.915200	SER3407-ND†	2.49	2.13	1.78	CA-301 4.9152M-C:PBFREE
5.500000	SER3408-ND†	1.12	.96	.80	CA-301 5.5000M-C:PBFREE
6.000000	SER3409-ND	1.12	.96	.80	CA-301 6.000M-C:PBFREE
6.144000	SER3410-ND	1.12	.96	.80	CA-301 6.1440M-C:PBFREE
7.200000	SER3412-ND	1.12	.96	.80	CA-301 7.200M-C:PBFREE
7.372000	SER3413-ND	1.12	.96	.80	CA-301 7.372M-C:PBFREE
8.000000	SER3414-ND	1.12	.96	.80	CA-301 8.000M-C:PBFREE

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
8.388000	SER3415-ND	1.12	.96	.80	CA-301 8.388M-C:PBFREE
8.432000	SER3416-ND	1.12	.96	.80	CA-301 8.432M-C:PBFREE
9.600000	SER3418-ND	1.12	.96	.80	CA-301 9.600M-C:PBFREE
9.830000	SER3419-ND	1.12	.96	.80	CA-301 9.830M-C:PBFREE
10.000000	SER3420-ND	1.12	.96	.80	CA-301 10.000M-C:PBFREE
10.240000	SER3421-ND	1.12	.96	.80	CA-301 10.2400M-C:PBFREE
11.059200	SER3423-ND	1.12	.96	.80	CA-301 11.0592M-C:PBFREE
12.000000	SER3424-ND	1.12	.96	.80	CA-301 12.0000M-C:PBFREE
12.288000	SER3426-ND	1.12	.96	.80	CA-301 12.2880M-C:PBFREE
14.318180	SER3429-ND	1.12	.96	.80	CA-301 14.31818M-C:PBFREE
14.745600	SER3431-ND	1.12	.96	.80	CA-301 14.7456M-C:PBFREE
16.000000	SER3433-ND	1.12	.96	.80	CA-301 16.0000M-C:PBFREE
18.000000	SER3435-ND	1.12	.96	.80	CA-301 18.0000M-C:PBFREE
18.432000	SER3436-ND	1.12	.96	.80	CA-301 18.4320M-C:PBFREE
19.660800	SER3437-ND	1.12	.96	.80	CA-301 19.6608M-C:PBFREE
20.000000	SER3438-ND	1.12	.96	.80	CA-301 20.0000M-C:PBFREE
22.118400	SER3439-ND	1.12	.96	.80	CA-301 22.1184M-C:PBFREE
24.000000	SER3440-ND	1.12	.96	.80	CA-301 24.0000M-C:PBFREE
25.000000	SER3441-ND	1.12	.96	.80	CA-301 25.0000M-C:PBFREE
27.000000	SER3443-ND	1.12	.96	.80	CA-301 27.0000M-C:(FUND):PBFREE
33.000000	SER3448-ND	1.12	.96	.80	CA-301 33.0000M-C:PBFREE
40.000000	SER3451-ND	1.12	.96	.80	CA-301 40.0000M-C:PBFREE

† Operating Temperature -10°C ~ 60°C

Chipset Crystals

Frequency (MHz)	Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.	Compatible Chip Sets and Applications
16.0000	9.0	SER3628CT-ND	3.45	2.88	2.59	SER3628TR-ND	575.00	TSX-3225 16.0000MF09Z-AC3	CSR, Bluetooth®
16.0000	9.0	SER3636CT-ND	3.45	2.88	2.59	SER3636TR-ND	575.00	TSX-3225 16.0000MF18X-AC3	Freescale, ZigBee™
20.0000	9.0	SER3629CT-ND	3.45	2.88	2.59	SER3629TR-ND	575.00	TSX-3225 20.0000MF20G-AC3	CSR, Bluetooth®
24.0000	9.0	SER3634CT-ND	3.45	2.88	2.59	SER3634TR-ND	575.00	TSX-3225 24.0000MF20G-AC3	Freescale, ZigBee™
24.0000	9.0	SER3635CT-ND	3.45	2.88	2.59	SER3635TR-ND	575.00	TSX-3225 24.0000MF15X-AC3	Freescale, ZigBee™
26.0000	9.0	SER3627CT-ND	2.10	1.75	1.58	SER3627TR-ND	350.00	TSX-3225 26.0000MF09Z-AC3	CSR, Bluetooth®, GSM
38.4000	8.5	SER3625CT-ND	1.89	1.58	1.42	SER3625TR-ND	315.00	TSX-3225 38.4000MF10Z-AS3	Marvell, WLAN
40.0000	9.0	SER3626CT-ND	3.45	2.88	2.59	SER3626TR-ND	575.00	TSX-3225 40.0000MF10Z-AC3	Marvell, WLAN, WIMAX
16.0000	9.0	SER3630CT-ND	2.19	1.83	1.65	SER3630TR-ND	365.00	TSX-4025 16.0000MF09Z-AC3	CSR, Bluetooth®
26.0000	9.0	SER3633CT-ND	4.35	3.63	3.27	SER3633TR-ND	725.00	FA-20H 26.0000ML81Z-AC3	CSR, Bluetooth®, GSM
38.4000	8.5	SER3631CT-ND	4.35	3.63	3.27	SER3631TR-ND	725.00	FA-20H 38.4000MF10Z-AS3	Marvell, WLAN
40.0000	9.0	SER3632CT-ND	4.35	3.63	3.27	SER3632TR-ND	725.00	FA-20H 40.0000MF15Z-AC3	Analog Devices, WLAN, WIMAX

MA-306 Series Crystal

Specifications: • **Storage Temperature:** -55°C ~ 100°C, stored as naked product after unpacking • **Operating Temperature:** -20°C ~ 70°C • **Maximum Drive Level:** 2mW • **Recommended Drive Level:** 10μW ~ 100μW • **Frequency Tolerance (standard):** ±50ppm • **Frequency Temperature Characteristics (standard):** ±30ppm, -20°C ~ 70°C, DL=100μW • **Load Capacitance:** 18pF • **Series Resistance:** 60Ω Maximum, -20°C ~ 70°C, DL=100μW • **Shunt Capacitance:** 5pF Maximum • **Aging:** ±5ppm/year Maximum

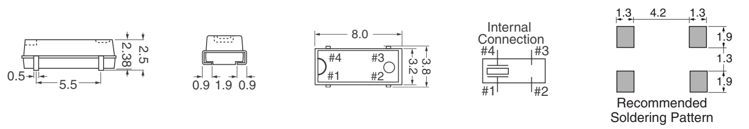

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 1,000	Epson Part No.
18.00000	SE2701CT-ND	2.14	1.83	1.53	SE2701TR-ND	854.00	MA-306 18.0000M-C0
18.43200	SE2702CT-ND	2.14	1.83	1.53	SE2702TR-ND	854.00	MA-306 18.4320M-C0
19.66080	SE2704CT-ND	2.14	1.83	1.53	SE2704TR-ND	854.00	MA-306 19.6608M-C0
22.11840	SE2707CT-ND	2.14	1.83	1.53	SE2707TR-ND	854.00	MA-306 22.1184M-C0
24.00000	SE2708CT-ND	2.14	1.83	1.53	SE2708TR-ND	854.00	MA-306 24.0000M-C0
25.00000	SE2710CT-ND	2.14	1.83	1.53	SE2710TR-ND	854.00	MA-306 25.0000M-C0
25.17500	SE2711CT-ND	2.14	1.83	1.53	SE2711TR-ND	854.00	MA-306 25.1750M-C0
27.00000	SE2712CT-ND	2.14	1.83	1.53	SE2712TR-ND	854.00	MA-306 27.0000M-C0
28.00000	SE2713CT-ND	2.14	1.83	1.53	SE2713TR-ND	854.00	MA-306 28.0000M-C0
28.63636	SE2715CT-ND	2.14	1.83	1.53	SE2715TR-ND	854.00	MA-306 28.63636M-C0
29.49120	SE2716CT-ND	2.14	1.83	1.53	SE2716TR-ND	854.00	MA-306 29.4912M-C0
32.00000	SE2718CT-ND	2.14	1.83	1.53	SE2718TR-ND	854.00	MA-306 32.0000M-C0
40.00000	SE2725CT-ND	2.14	1.83	1.53	SE2725TR-ND	854.00	MA-306 40.0000M-C0
RoHS Compliant							
18.00000	SER2701CT-ND	2.14	1.83	1.53	SER2701TR-ND	854.00	MA-306 18.0000M-C0:ROHS
18.43200	SER2702CT-ND	2.14	1.83	1.53	SER2702TR-ND	854.00	MA-306 18.4320M-C0:ROHS
19.66080	SER2704CT-ND	2.14	1.83	1.53	SER2704TR-ND	854.00	MA-306 19.6608M-C0:ROHS
20.00000	SER2705CT-ND	2.14	1.83	1.53	SER2705TR-ND	854.00	MA-306 20.0000M-C0:ROHS
22.11840	SER2707CT-ND	2.14	1.83	1.53	SER2707TR-ND	854.00	MA-306 22.1184M-C0:ROHS
24.00000	SER2708CT-ND	2.14	1.83	1.53	SER2708TR-ND	854.00	MA-306 24.0000M-C0:ROHS
24.57600	SER2709CT-ND	2.14	1.83	1.53	SER2709TR-ND	854.00	MA-306 24.5760M-C0:ROHS
25.00000	SER2710CT-ND	2.14	1.83	1.53	SER2710TR-ND	854.00	MA-306 25.0000M-C0:ROHS
25.17500	SER2711CT-ND	2.14	1.83	1.53	SER2711TR-ND	854.00	MA-306 25.1750M-C0:ROHS
27.00000	SER2712CT-ND	2.14	1.83	1.53	SER2712TR-ND	854.00	MA-306 27.0000M-C0:ROHS
28.00000	SER2713CT-ND	2.14	1.83	1.53	SER2713TR-ND	854.00	MA-306 28.0000M-C0:ROHS
29.49120	SER2716CT-ND	2.14	1.83	1.53	SER2716TR-ND	854.00	MA-306 29.4912M-C0:ROHS
32.00000	SER2718CT-ND	2.14	1.83	1.53	SER2718TR-ND	854.00	MA-306 32.0000M-C0:ROHS
40.00000	SER2725CT-ND	2.14	1.83	1.53	SER2725TR-ND	854.00	MA-306 40.0000M-C0:ROHS

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPSON TOYOCOM Surface Mount Quartz Crystal Products

Features: • Capable of withstanding reflow temperatures of 260°C for 20 seconds • Suitable for use in today's high density surface mount boards

Package	FC-135	FC-255	MA-406	MA-505	MA-506	MC-146	MC-156	MC-306	MC-405	MC-406
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Maximum Drive Level	0.5µW	0.5µW	100µW	10µW ~ 100µW	10µW ~ 100µW	1.0µW	1.0µW	1.0µW	1.0µW	1.0µW
Frequency Tolerance	±20ppm @ 25°C	±20ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C
Load Capacitance	12.5pF	12.5pF	C: 18pF; G: 20pF	18pF	18pF	9pF	12.5pF	A=12.5pf; E=6pF	12.5pF	12.5pF
Series Resistance	70KΩ Max.	65KΩ Max.	—	—	—	65KΩ Max.	65KΩ Max.	50KΩ Max.	50KΩ Max.	50KΩ Max.
Shunt Capacitance	1.3pF Typ.	1.3pF Typ.	5pF Max.	5pF Max.	5pF Max.	0.8pF	—	0.9pF Max.	0.85pF Typ.	0.85pF

Fig. 1

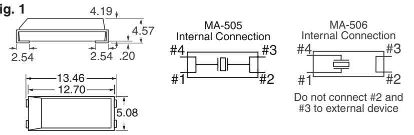

Do not connect #2 and #3 to external device

Fig. 2

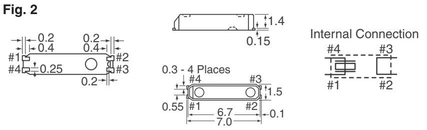

Fig. 3

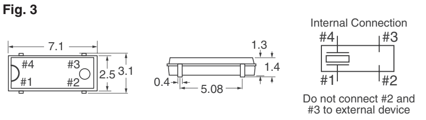

Do not connect #2 and #3 to external device

Fig. 4

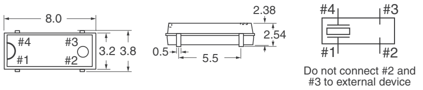

Do not connect #2 and #3 to external device

Fig. 5

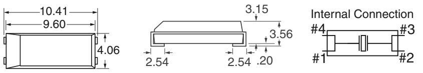

Fig. 6

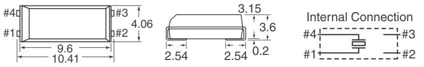

Fig. 7

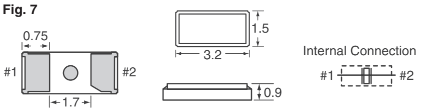

Fig. 8

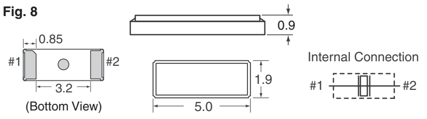

Fig. 9

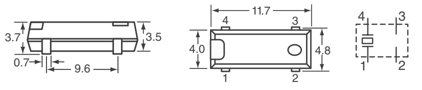

Frequency	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Epson Part No.
		1	10	50	Qty.	Pricing	
Fig. 1 — MA-505							
4.00000 MHz	SE2518CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-505 4.0000M-C0
4.00000 MHz	SER2518CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-505 4.0000M-C0:ROHS
4.09600 MHz	SE2519CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-505 4.0960M-C0
4.09600 MHz	SER2519CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-505 4.0960M-C0:ROHS
4.91520 MHz	SE2520CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-505 4.9152M-C0
4.91520 MHz	SER2520CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-505 4.9152M-C0:ROHS
6.00000 MHz	SE2501CT-ND	1.12	.96	.80	1,000	448.00	MA-505 6.0000M-C0
6.00000 MHz	SER2501CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 6.0000M-C0:ROHS
7.37280 MHz	SE2503CT-ND	1.12	.96	.80	1,000	448.00	MA-505 7.3728M-C0
7.37280 MHz	SER2503CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 7.3728M-C0:ROHS
8.00000 MHz	SE2504CT-ND	1.12	.96	.80	1,000	448.00	MA-505 8.0000M-C0
8.00000 MHz	SER2504CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 8.0000M-C0:ROHS
9.83040 MHz	SE2524CT-ND	1.12	.96	.80	1,000	448.00	MA-505 9.8304M-C0
9.83040 MHz	SER2524CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 9.8304M-C0:ROHS
10.00000 MHz	SE2505CT-ND	1.12	.96	.80	1,000	448.00	MA-505 10.0000M-C0
10.00000 MHz	SER2505CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 10.0000M-C0:ROHS
10.24000 MHz	SE2525CT-ND	1.12	.96	.80	1,000	448.00	MA-505 10.2400M-C0
11.05920 MHz	SE2506CT-ND	1.12	.96	.80	1,000	448.00	MA-505 11.0592M-C0
11.05920 MHz	SER2506CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 11.0592M-C0:ROHS
12.00000 MHz	SE2507CT-ND	1.12	.96	.80	1,000	448.00	MA-505 12.0000M-C0
12.00000 MHz	SER2507CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 12.0000M-C0:ROHS
14.31800 MHz	SE2528CT-ND	1.12	.96	.80	1,000	448.00	MA-505 14.3180M-C0
14.31800 MHz	SER2528CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 14.3180M-C0:ROHS
14.74560 MHz	SE2529CT-ND	1.12	.96	.80	1,000	448.00	MA-505 14.7456M-C0
14.74560 MHz	SER2529CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 14.7456M-C0:ROHS
16.00000 MHz	SE2508CT-ND	1.12	.96	.80	1,000	448.00	MA-505 16.0000M-C0
16.00000 MHz	SER2508CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 16.0000M-C0:ROHS
18.43200 MHz	SE2533CT-ND	1.12	.96	.80	1,000	448.00	MA-505 18.4320M-C0
18.43200 MHz	SER2533CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 18.4320M-C0:ROHS
19.66000 MHz	SE2535CT-ND	1.12	.96	.80	1,000	448.00	MA-505 19.6600M-C0
19.66000 MHz	SER2535CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 19.6600M-C0:ROHS
20.00000 MHz	SE2509CT-ND	1.12	.96	.80	1,000	448.00	MA-505 20.0000M-C0
20.00000 MHz	SER2509CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 20.0000M-C0:ROHS
24.00000 MHz	SE2510CT-ND	1.12	.96	.80	1,000	448.00	MA-505 24.0000M-C0
24.00000 MHz	SER2510CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 24.0000M-C0:ROHS
24.57600 MHz	SE2538CT-ND	1.12	.96	.80	1,000	448.00	MA-505 24.5760M-C0
24.57600 MHz	SER2538CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 24.5760M-C0:ROHS
25.00000 MHz	SE2539CT-ND	1.12	.96	.80	1,000	448.00	MA-505 25.0000M-C0
25.00000 MHz	SER2539CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 25.0000M-C0:ROHS
29.49120 MHz	SE2543CT-ND	1.12	.96	.80	1,000	448.00	MA-505 29.4912M-C0:(30T)
29.49120 MHz	SER2543CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 29.4912M-C0:(30T):ROHS
30.00000 MHz	SE2544CT-ND	1.12	.96	.80	1,000	448.00	MA-505 30.0000M-C0
30.00000 MHz	SER2544CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 30.0000M-C0:ROHS
32.76800 MHz	SE2546CT-ND	1.12	.96	.80	1,000	448.00	MA-505 32.7680M-C0
33.33300 MHz	SE2514CT-ND	1.12	.96	.80	1,000	448.00	MA-505 33.3330M-C0
36.00000 MHz	SE2548CT-ND	1.12	.96	.80	1,000	448.00	MA-505 36.0000M-C0
40.00000 MHz	SE2515CT-ND	1.12	.96	.80	1,000	448.00	MA-505 40.0000M-C0
40.00000 MHz	SER2515CT-ND◆	1.12	.96	.80	1,000	448.00	MA-505 40.0000M-C0:ROHS
Fig. 1 — MA-506							
4.00000 MHz	SE2618CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-506 4.0000M-C0
4.00000 MHz	SER2618CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-506 4.0000M-C0:ROHS
4.09600 MHz	SE2619CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-506 4.0960M-C0
4.09600 MHz	SER2619CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-506 4.0960M-C0:ROHS
4.91520 MHz	SE2620CT-ND	2.80	2.40	2.00	1,000	1120.00	MA-506 4.9152M-C0
4.91520 MHz	SER2620CT-ND◆	2.80	2.40	2.00	1,000	1120.00	MA-506 4.9152M-C0:ROHS
6.00000 MHz	SE2601CT-ND	1.12	.96	.80	1,000	448.00	MA-506 6.0000M-C0
6.00000 MHz	SER2601CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 6.0000M-C0:ROHS
6.14400 MHz	SE2602CT-ND	1.12	.96	.80	1,000	448.00	MA-506 6.1440M-C0
6.14400 MHz	SER2602CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 6.1440M-C0:ROHS
7.37280 MHz	SE2603CT-ND	1.12	.96	.80	1,000	448.00	MA-506 7.3728M-C0
7.37280 MHz	SER2603CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 7.3728M-C0:ROHS
8.00000 MHz	SE2604CT-ND	1.12	.96	.80	1,000	448.00	MA-506 8.0000M-C0
8.00000 MHz	SER2604CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 8.0000M-C0:ROHS
9.83000 MHz	SE2624CT-ND	1.12	.96	.80	1,000	448.00	MA-506 9.8300M-C0
9.83000 MHz	SER2624CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 9.8300M0C0:ROHS
10.00000 MHz	SE2605CT-ND	1.12	.96	.80	1,000	448.00	MA-506 10.0000M-C0
10.00000 MHz	SER2605CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 10.0000M-C0:ROHS
10.24000 MHz	SE2625CT-ND	1.12	.96	.80	1,000	448.00	MA-506 10.2400M-C0
11.00000 MHz	SE2626CT-ND	1.12	.96	.80	500	265.60	MA-506 11.0000M-C0
11.05920 MHz	SE2606CT-ND	1.12	.96	.80	1,000	448.00	MA-506 11.0592M-C0
11.05920 MHz	SER2606CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 11.0592M-C0:ROHS
12.00000 MHz	SE2607CT-ND	1.12	.96	.80	1,000	448.00	MA-506 12.0000M-C0
12.00000 MHz	SER2607CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 12.0000M-C0:ROHS
12.28800 MHz	SE2627CT-ND	1.12	.96	.80	1,000	448.00	MA-506 12.2880M-C0
12.28800 MHz	SER2627CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 12.2880M-C0:ROHS
14.31818 MHz	SER2628CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 14.31818M-C0:ROHS
14.74560 MHz	SE2629CT-ND	1.12	.96	.80	1,000	448.00	MA-506 14.7456M-C0
14.74560 MHz	SER2629CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 14.7456M-C0:ROHS
15.00000 MHz	SE2630CT-ND	1.12	.96	.80	1,000	448.00	MA-506 15.0000M-C0
16.00000 MHz	SE2608CT-ND	1.12	.96	.80	1,000	448.00	MA-506 16.0000M-C0
16.00000 MHz	SER2608CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 16.0000M-C0:ROHS
16.25700 MHz	SE2631CT-ND	1.12	.96	.80	1,000	448.00	MA-506 16.2570M-C0
18.00000 MHz	SE2632CT-ND	1.12	.96	.80	1,000	448.00	MA-506 18.0000M-C0
18.00000 MHz	SER2632CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 18.0000M-C0:ROHS
18.43200 MHz	SE2633CT-ND	1.12	.96	.80	1,000	448.00	MA-506 18.4320M-C0
18.43200 MHz	SER2633CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 18.4320M-C0:ROHS
19.66080 MHz	SE2635CT-ND	1.12	.96	.80	1,000	448.00	MA-506 19.6608M-C0
20.00000 MHz	SE2609CT-ND	1.12	.96	.80	1,000	448.00	MA-506 20.0000M-C0
20.00000 MHz	SER2609CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 20.0000M-C0:ROHS
20.48000 MHz	SE2636CT-ND	1.12	.96	.80	1,000	448.00	MA-506 20.4800M-C0
22.11840 MHz	SE2637CT-ND	1.12	.96	.80	1,000	448.00	MA-506 22.1184M-C0
22.11840 MHz	SER2637CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 22.1184M-C0:ROHS
24.00000 MHz	SE2610CT-ND	1.12	.96	.80	1,000	448.00	MA-506 24.0000M-C0
24.00000 MHz	SER2610CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 24.0000M-C0:ROHS
24.57600 MHz	SE2638CT-ND	1.12	.96	.80	1,000	448.00	MA-506 24.5760M-C0
24.57600 MHz	SER2638CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 24.5760M-C0:ROHS
25.00000 MHz	SE2639CT-ND	1.12	.96	.80	1,000	448.00	MA-506 25.0000M-C0
25.00000 MHz	SER2639CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 25.0000M-C0:ROHS
27.00000 MHz	SE2641CT-ND	1.12	.96	.80	—	—	MA-506 27.0000M-C0:(FUND)
27.00000 MHz	SER2641CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 27.0000M-C0:(FUND):ROHS
28.63600 MHz	SE2642CT-ND	1.12	.96	.80	1,000	448.00	MA-506 28.6360M-C0:(30T)
28.63600 MHz	SER2642CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 28.6360M-C0:(30T):ROHS
32.76800 MHz	SER2646CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 32.7680M-C0:ROHS
33.00000 MHz	SE2647CT-ND	1.12	.96	.80	1,000	448.00	MA-506 33.0000M-C0
40.00000 MHz	SE2615CT-ND	1.12	.96	.80	1,000	448.00	MA-506 40.0000M-C0
48.00000 MHz	SE2651CT-ND	1.12	.96	.80	1,000	448.00	MA-506 48.0000M-C0
48.00000 MHz	SER2651CT-ND◆	1.12	.96	.80	1,000	448.00	MA-506 48.0000M-C0:ROHS
50.00000 MHz	SE2616CT-ND	1.12	.96	.80	1,000	448.00	MA-506 50.0000M-C0
64.00000 MHz	SE2653CT-ND	1.23	1.05	.88	1,000	490.00	MA-506 64.0000M-C0
64.00000 MHz	SER2653CT-ND◆	1.23	1.05	.88	1,000	490.00	MA-506 64.0000M-C0:ROHS
Fig. 2 — MC-146							
32.76800 KHz	SE2416CT-ND	1.40	1.20	1.00	250	200.00	MC-146 32.768KA-AC3
32.76800 KHz	SER2416CT-ND◆	1.40	1.20	1.00	250	200.00	MC-146 32.768KA-AC3:ROHS

† For Tape and Reel part number change CT-ND to TR-ND. ◆ ***RoHS Compliant*** *(Continued)*

EPSON TOYOCOM Surface Mount Quartz Crystal Products *(Cont.)*

Frequency	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Epson Part No.
		1	10	50	Qty.	Pricing	
Fig. 3 — MC-156							
32.76800 KHz	SE2412CT-ND	1.30	1.11	.93	1,000	518.00	MC-156 32.7680KA-A0
32.76800 KHz	SER2412CT-ND◆	1.30	1.11	.93	1,000	518.00	MC-156 32.7680KA-A0:ROHS
Fig. 4 — MC-306							
32.76800 KHz	SE2407CT-ND	.95	.81	.68	1,000	378.00	MC-306 32.7680K-A0
32.76800 KHz	SER2407CT-ND◆	.95	.81	.68	1,000	378.00	MC-306 32.7680K-A0:ROHS
32.76800 KHz	SE2417CT-ND	.95	.81	.68	250	135.00	MC-306 32.768K-E3
32.76800 KHz	SER2417CT-ND◆	.95	.81	.68	250	135.00	MC-306 32.768K-E3:ROHS
Fig. 5 — MC-405							
32.76800 KHz	SE2405CT-ND	.95	.81	.68	1,000	378.00	MC-405 32.7680K-A0
Fig. 6 — MC-406							
32.76800 KHz	SE2418CT-ND	.95	.81	.68	250	135.00	MC-406 32.768K-A3
32.76800 KHz	SER2418CT-ND◆	.95	.81	.68	250	135.00	MC-406 32.768K-A3:ROHS
32.76800 KHz	SER2405CT-ND◆	.95	.81	.68	1,000	378.00	MC-405 32.7680K-A0:ROHS
Fig. 7 — FC-135 — RoHS Compliant							
32.76800 KHz	SE2413CT-ND	2.98	2.55	2.13	250	425.00	FC-135 32.7680KA-A3
Fig. 8 — FC-255 — RoHS Compliant							
32.76800 KHz	SE2415CT-ND	1.86	1.59	1.33	250	265.00	FC-255 32.7680K-A3
Fig. 9 — MA-406 — RoHS Compliant							
10.0000 MHz	SER3646CT-ND	1.12	.96	.80	250	160.00	MA-406 10.0000M-C3:ROHS
12.0000 MHz	SER3643CT-ND	1.12	.96	.80	250	160.00	MA-406 12.0000M-C3:ROHS
14.31818 MHz	SER3647CT-ND	1.12	.96	.80	250	160.00	MA-406 14.31818M-C3:ROHS
16.0000 MHz	SER3645CT-ND	1.12	.96	.80	250	160.00	MA-406 16.0000M-C3:ROHS
25.0000 MHz	SER3644CT-ND	1.12	.96	.80	250	160.00	MA-406 25.0000M-C3:ROHS
25.0000 MHz	SER3642CT-ND	1.12	.96	.80	250	160.00	MA-406 25.0000M-G3:ROHS

† For Tape and Reel part number change CT-ND to TR-ND. ◆ ***RoHS Compliant***

CTS® 400 Series SMD Crystals

Features: • Stable frequency over temperature and drive level • Ideal for application to high-density circuit boards. • Reliable precision and excellent shock performance in wireless telecommunications devices

Specifications	425 Series	403 Series	405 Series	406 Series	407 Series
Frequency Tolerance:	±30ppm@25°C	403C11: ±10ppm@25°C 403C35: ±30ppm@25°C	405C11: ±10ppm@25°C 405C35: ±30ppm@25°C	±30ppm@25°C	±30ppm@25°C
Frequency Stability:	±50ppm	403C11: ±10ppm 403C35: ±50ppm	405C11: ±10ppm 405C35: ±50ppm	±50ppm	±50ppm
Shunt Capacitance:	5pF Maximum	5pF Maximum	7pF Maximum	4pF Maximum	7pF Maximum
Drive Level:	100μW Maximum				
Operating Mode:	Fundamental	Fundamental	Fundamental	Fundamental	9.60 ~ 44.736: Fundamental 50.000: 3rd Overtone
Operating Temperature:	-20°C ~ 70°C				
Storage Temperature:	-40°C ~ 85°C	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C

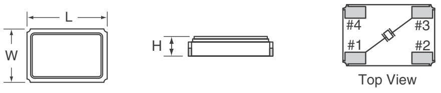

Package	Dimensions (mm)		
	L	W	H
425	2.5	2.0	0.65 Max.
403	3.2	2.5	0.80 Max.
405	5.0	3.2	1.05 Max.
406	6.0	3.5	1.20 Max.
407	7.0	5.0	1.30 Max.

Frequency (MHz)	ESR (Ω)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		CTS Part No.
				1	10	100	Qty.	Pricing	
425 Series									
16.00000	100	13	CTX804CT-ND	3.10	2.69	1.87	3,000	1116.45/M	425F35B016M0000
20.00000	100	13	CTX805CT-ND	3.57	3.10	2.15	3,000	1285.20/M	425F35B020M0000
27.00000	80	20	CTX852CT-ND✔	2.61	2.27	1.57	3,000	940.95/M	425F35E027M0000
40.00000	60	13	CTX806CT-ND	3.57	3.10	2.15	3,000	1285.20/M	425F35B040M0000
403 Series									
12.00000	150	18	CTX839CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D12M00000
13.00000	150	20	CTX731CT-ND	1.99	1.73	1.20	3,000	715.50/M	403C35E13M00000
16.00000	80	10	CTX847CT-ND✔	1.57	1.36	.95	3,000	564.30/M	403C11A16M00000
16.00000	80	18	CTX840CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D16M00000
16.00000	80	20	CTX732CT-ND	2.68	2.33	1.61	3,000	963.90/M	403C11E16M00000
20.00000	60	10	CTX848CT-ND✔	1.57	1.36	.95	3,000	564.30/M	403C11A20M00000
20.00000	60	18	CTX841CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D20M00000
24.00000	60	10	CTX849CT-ND✔	1.57	1.36	.95	3,000	564.30/M	403C11A24M00000
24.00000	60	18	CTX842CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D24M00000
26.00000	60	20	CTX733CT-ND	1.99	1.73	1.20	3,000	715.50/M	403C35E26M00000
27.00000	60	20	CTX734CT-ND	1.99	1.73	1.20	3,000	715.50/M	403C35E27M00000
27.00000	60	18	CTX843CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D27M00000
30.00000	60	18	CTX844CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D30M00000
32.00000	60	10	CTX850CT-ND✔	2.68	2.33	1.61	3,000	963.90/M	403C11A32M00000
32.00000	60	20	CTX735CT-ND	2.68	2.33	1.61	3,000	963.90/M	403C11E32M00000
40.00000	60	10	CTX851CT-ND✔	1.57	1.36	.95	3,000	564.30/M	403C11A40M00000
40.00000	60	18	CTX845CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D40M00000
48.00000	60	18	CTX846CT-ND✔	1.53	1.33	.93	3,000	552.15/M	403C35D48M00000
405 Series									
10.00000	50	10	CTX832CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A10M00000
10.00000	50	20	CTX817CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35E10M00000
11.05920	50	13	CTX638CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B11M05920
12.00000	50	10	CTX833CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A12M00000
12.00000	50	18	CTX818CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D12M00000
12.00000	50	20	CTX819CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35E12M00000
12.00000	50	13	CTX639CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B12M00000
12.80000	50	13	CTX640CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B12M80000
13.00000	50	13	CTX641CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B13M00000
14.31818	50	13	CTX642CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B14M31818
14.40000	50	13	CTX643CT-ND	1.95	1.56	1.30	1,000	726.60	405C35B14M40000
14.74560	50	13	CTX644CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B14M74560
15.36000	50	13	CTX645CT-ND	1.95	1.56	1.30	1,000	726.60	405C35B15M36000
16.00000	50	10	CTX834CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A16M00000
16.00000	50	18	CTX820CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D16M00000
16.00000	50	20	CTX821CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35E16M00000
16.00000	50	13	CTX646CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B16M00000
16.36800	50	13	CTX647CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B16M36800
19.20000	50	13	CTX648CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B19M20000
19.68000	50	13	CTX649CT-ND	1.95	1.56	1.30	1,000	726.60	405C35B19M68000
20.00000	50	10	CTX835CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A20M00000
20.00000	50	13	CTX650CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B20M00000
20.00000	50	18	CTX822CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D20M00000
20.00000	50	20	CTX823CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35E20M00000
24.00000	50	10	CTX836CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A24M00000
24.00000	50	13	CTX651CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B24M00000
24.00000	50	18	CTX824CT-ND✔	2.81	2.44	1.69	1,000	1050.00	405C35D24M00000
24.00000	50	20	CTX825CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35E24M00000
25.00000	50	10	CTX837CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A25M00000
25.00000	50	13	CTX652CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B25M00000
25.00000	50	18	CTX826CT-ND✔	2.81	2.44	1.69	1,000	1050.00	405C35D25M00000
26.00000	50	13	CTX653CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B26M00000
27.00000	50	18	CTX827CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D27M00000
30.00000	50	18	CTX828CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D30M00000
32.00000	50	13	CTX654CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B32M00000
33.00000	50	13	CTX655CT-ND	1.95	1.69	1.17	1,000	726.60	405C35B33M00000
40.00000	50	10	CTX838CT-ND✔	1.63	1.42	.98	1,000	609.00	405C11A40M00000
40.00000	50	18	CTX829CT-ND✔	1.44	1.25	.87	1,000	536.20	405C35D40M00000
44.00000	50	13	CTX657CT-ND	2.16	1.74	1.45	1,000	807.80	405C35B44M00000
48.00000	50	18	CTX830CT-ND✔	1.57	1.36	.95	1,000	585.20	405C35D48M00000
406 Series									
8.00000	60	18	CTX853CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D08M00000
10.00000	60	18	CTX854CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D10M00000
12.00000	60	18	CTX855CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D12M00000
16.00000	40	18	CTX856CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D16M00000
18.43200	40	13	CTX668CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B18M43200
20.00000	40	18	CTX857CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D20M00000
20.48000	40	13	CTX670CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B20M48000
22.00000	40	13	CTX671CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B22M00000
24.00000	40	18	CTX858CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D24M00000
24.57600	40	13	CTX672CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B24M57600
25.00000	40	18	CTX859CT-ND✔	1.44	1.25	.87	1,000	536.20	406C35D25M00000
27.00000	40	13	CTX673CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B27M00000
30.00000	40	13	CTX674CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B30M00000
32.76800	40	13	CTX675CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B32M76800
35.32800	40	13	CTX676CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B35M32800
38.88000	40	13	CTX677CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B38M88000
44.54500	40	13	CTX678CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B44M54500
48.00000	40	13	CTX679CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B48M00000
10.00000	60	13	CTX658CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B10M00000
10.24500	60	13	CTX659CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B10M24500
12.28800	60	13	CTX660CT-ND	2.16	1.74	1.45	—	—	406C35B12M28800
12.68800	60	13	CTX661CT-ND	2.16	1.74	1.45	1,000	807.80	406C35B12M68800
13.00000	60	13	CTX662CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B13M00000
13.22500	60	13	CTX663CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B13M22500
14.00000	60	13	CTX664CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B14M00000
14.85000	60	13	CTX667CT-ND	2.16	1.88	1.30	1,000	807.80	406C35B14M85000
407 Series									
9.60000	60	20	CTX680CT-ND	1.59	1.38	.96	1,000	592.20	407F35E009M6000
12.50000	60	20	CTX681CT-ND	1.59	1.38	.96	1,000	592.20	407F35E012M5000
16.38400	40	20	CTX682CT-ND	1.58	1.37	.95	1,000	588.00	407F35E016M3840
16.67000	40	20	CTX683CT-ND	1.58	1.37	.95	1,000	588.00	407F35E016M6700
22.11840	40	20	CTX684CT-ND	1.58	1.37	.95	1,000	592.20	407F35E022M1184
29.49120	40	20	CTX685CT-ND	1.59	1.38	.96	1,000	592.20	407F35E029M4912
36.00000	40	20	CTX686CT-ND	1.73	1.51	1.04	1,000	646.80	407F35E036M0000
44.73600	40	20	CTX687CT-ND	1.88	1.63	1.13	1,000	700.00	407F35E044M7360
50.00000	100	20	CTX688CT-ND	1.73	1.51	1.04	1,000	646.80	407T35E050M0000

✔ ***NEW!*** † For Tape and Reel part number change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS® ATS-SM Series Crystals

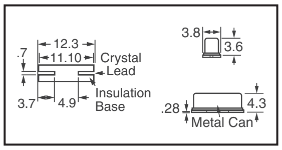

Specifications:

- **Frequency Tolerance:** ±30ppm @ 25°C
- **Shunt Capacitance:** 7.0pF Maximum
- **Max Drive Level:** 1,000mW
- **Frequency Stability:** ±50ppm
- **Operating Temperature:** -20°C ~ 70°C
- **Operating Mode:** Fundamental

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	CTS Part No.
3.579545	18.0pF	CTX500CT-ND	1.58	1.37	1.20	.95	CTX500TR-ND	588.00	ATS036SM-T
3.686400	18.0pF	CTX878CT-ND✓	.52	.46	.40	.32	CTX878TR-ND✓	194.60	ATS037BSM-1
3.686400	20.0pF	CTX501CT-ND	1.58	1.37	1.20	.95	CTX501TR-ND	588.00	ATS037SM-T
4.000000	18.0pF	CTX879CT-ND✓	.52	.46	.40	.32	CTX879TR-ND✓	194.60	ATS040BSM-1
4.000000	20.0pF	CTX502CT-ND	1.58	1.37	1.20	.95	CTX502TR-ND	588.00	ATS040SM-T
4.915200	18.0pF	CTX880CT-ND✓	.52	.46	.40	.32	CTX880TR-ND✓	194.60	ATS049BSM-1
4.915200	20.0pF	CTX503CT-ND	1.58	1.37	1.20	.95	CTX503TR-ND	588.00	ATS042SM-T
5.000000	18.0pF	CTX881CT-ND✓	.52	.46	.40	.32	CTX881TR-ND✓	194.60	ATS050BSM-1
5.068800	20.0pF	CTX504CT-ND	1.58	1.37	1.20	.95	CTX504TR-ND	588.00	ATS050SM-T
6.00000	18.0pF	CTX882CT-ND✓	.52	.46	.40	.32	CTX882TR-ND✓	194.60	ATS060BSM-1
6.00000	20.0pF	CTX505CT-ND	1.58	1.37	1.20	.95	CTX505TR-ND	588.00	ATS060SM-T
6.14400	18.0pF	CTX883CT-ND✓	.52	.46	.40	.32	CTX883TR-ND✓	194.60	ATS061BSM-1
8.00000	18.0pF	CTX884CT-ND✓	.52	.46	.40	.32	CTX884TR-ND✓	194.60	ATS080BSM-1
8.00000	20.0pF	CTX506CT-ND	1.58	1.37	1.20	.95	CTX506TR-ND	588.00	ATS08ASM-T
9.83040	18.0pF	CTX885CT-ND✓	.52	.46	.40	.32	CTX885TR-ND✓	194.60	ATS098BSM-1
9.83040	20.0pF	CTX507CT-ND	1.58	1.37	1.20	.95	CTX507TR-ND	588.00	ATS098SM-T
10.00000	18.0pF	CTX886CT-ND✓	.52	.46	.40	.32	CTX886TR-ND✓	194.60	ATS100BSM-1
10.00000	Series	CTX508CT-ND	1.58	1.37	1.20	.95	CTX508TR-ND	588.00	ATS100SM-T
11.05920	18.0pF	CTX887CT-ND✓	.52	.46	.40	.32	CTX887TR-ND✓	194.60	ATS111BSM-1
11.05920	20.0pF	CTX509CT-ND	1.58	1.37	1.20	.95	CTX509TR-ND	588.00	ATS111SM-T
12.00000	18.0pF	CTX888CT-ND✓	.52	.46	.40	.32	CTX888TR-ND✓	194.60	ATS120BSM-1
12.00000	Series	CTX510CT-ND	1.58	1.37	1.20	.95	CTX510TR-ND	588.00	ATS120SM-T
12.28800	18.0pF	CTX889CT-ND✓	.52	.46	.40	.32	CTX889TR-ND✓	194.60	ATS122BSM-1
12.28800	20.0pF	CTX511CT-ND	1.58	1.37	1.20	.95	CTX511TR-ND	588.00	ATS122SM-T
14.31818	18.0pF	CTX890CT-ND✓	.52	.46	.40	.32	CTX890TR-ND✓	194.60	ATS143BSM-1
14.31818	Series	CTX512CT-ND	1.58	1.37	1.20	.95	CTX512TR-ND	588.00	ATS143SM-T
14.74560	18.0pF	CTX892CT-ND✓	.52	.46	.40	.32	CTX892TR-ND✓	194.60	ATS147BSM-1
14.74560	20.0pF	CTX891CT-ND✓	.52	.46	.40	.32	CTX891TR-ND✓	194.60	ATS147ASM-1
15.36000	20.0pF	CTX513CT-ND	1.47	1.26	1.05	.84	CTX513TR-ND	588.00	ATS15ASM-T
16.00000	Series	CTX514CT-ND	1.58	1.37	1.20	.95	CTX514TR-ND	588.00	ATS160SM-T
20.00000	18.0pF	CTX893CT-ND✓	.52	.46	.40	.32	CTX893TR-ND✓	194.60	ATS200CSM-1
20.00000	Series	CTX515CT-ND	1.58	1.37	1.20	.95	CTX515TR-ND	588.00	ATS200SM-T
20.48000	20.0pF	CTX516CT-ND	1.95	1.69	1.49	1.17	CTX516TR-ND	728.00	ATS204SM-T
24.57600	18.0pF	CTX894CT-ND✓	.52	.46	.40	.32	CTX894TR-ND✓	194.60	ATS245ASM-1
24.57600	Series	CTX517CT-ND	1.95	1.69	1.49	1.17	CTX517TR-ND	728.00	ATS245SM-T

✓ ***NEW!***

ATS Series Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm @ 25°C
- **Shunt Capacitance:** 7pF Maximum
- **Max Drive Level:** 1,000mW
- **Frequency Stability:** ±50ppm
- **Operating Mode:** Fundamental

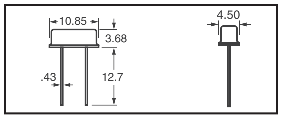

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
±50ppm Frequency Stability -20°C ~ 70°C							
3.579545	18.0pF	CTX400-ND	.83	.72	.60	.48	ATS036
3.686400	18.0pF	CTX895-ND ***NEW!***	.43	.37	.31	.25	ATS037B
3.686400	20.0pF	CTX401-ND	.83	.72	.60	.48	ATS037
4.000000	18.0pF	CTX896-ND ***NEW!***	.43	.37	.31	.25	ATS040B
4.000000	20.0pF	CTX402-ND	.75	.65	.54	.43	ATS040
4.915200	18.0pF	CTX897-ND ***NEW!***	.43	.37	.31	.25	ATS049B
4.915200	20.0pF	CTX403-ND	.75	.65	.54	.43	ATS042
5.068800	20.0pF	CTX404-ND	.75	.65	.54	.43	ATS050
6.000000	18.0pF	CTX898-ND ***NEW!***	.43	.37	.31	.25	ATS060B
6.000000	20.0pF	CTX405-ND	.75	.65	.54	.43	ATS060
6.144000	18.0pF	CTX899-ND ***NEW!***	.43	.37	.31	.25	ATS061B
8.000000	18.0pF	CTX900-ND ***NEW!***	.43	.37	.31	.25	ATS080B
8.000000	20.0pF	CTX406-ND	.75	.65	.54	.43	ATS08A
9.830400	18.0pF	CTX901-ND ***NEW!***	.43	.37	.31	.25	ATS098B
9.830400	20.0pF	CTX407-ND	.75	.65	.54	.43	ATS098
10.000000	18.0pF	CTX902-ND ***NEW!***	.43	.37	.31	.25	ATS100B
10.000000	Series	CTX408-ND	.75	.65	.54	.43	ATS100
11.059200	18.0pF	CTX903-ND ***NEW!***	.43	.37	.31	.25	ATS111B
11.059200	20.0pF	CTX409-ND	.75	.65	.54	.43	ATS111
12.000000	18.0pF	CTX904-ND ***NEW!***	.43	.37	.31	.25	ATS120B
12.000000	Series	CTX410-ND	.75	.65	.54	.43	ATS120
12.288000	18.0pF	CTX905-ND ***NEW!***	.43	.37	.31	.25	ATS122B
12.288000	20.0pF	CTX411-ND	.75	.65	.54	.43	ATS122
14.318180	18.0pF	CTX906-ND ***NEW!***	.43	.37	.31	.25	ATS143B
14.318180	Series	CTX412-ND	.75	.65	.54	.43	ATS143
14.745600	18.0pF	CTX908-ND ***NEW!***	.43	.37	.31	.25	ATS147B
14.745600	20.0pF	CTX907-ND ***NEW!***	.43	.37	.31	.25	ATS147A
15.360000	20.0pF	CTX413-ND	.75	.65	.54	.43	ATS15A
16.000000	Series	CTX414-ND	.75	.65	.54	.43	ATS160
16.000000	20.0pF	CTX415-ND	.75	.65	.54	.43	ATS16A
20.000000	18.0pF	CTX909-ND ***NEW!***	.43	.37	.31	.25	ATS200C
20.000000	Series	CTX416-ND	.75	.65	.54	.43	ATS200
20.480000	20.0pF	CTX417-ND	.48	.41	.34	.28	ATS204
24.576000	18.0pF	CTX910-ND ***NEW!***	.43	.37	.31	.25	ATS245A
24.576000	Series	CTX418-ND	1.26	1.08	.90	.72	ATS245
25.000000	18.0pF	CTX911-ND ***NEW!***	.63	.54	.45	.36	ATS250B
25.000000	Series	CTX419-ND	1.26	1.08	.90	.72	ATS250
NEW! ±50ppm Frequency Stability -40°C ~ 85°C NEW!							
3.6864000	18.0pF	CTX912-ND	.49	.42	.35	.28	ATS037B-E
4.0000000	18.0pF	CTX913-ND	.49	.42	.35	.28	ATS040B-E
4.9152000	18.0pF	CTX914-ND	.49	.42	.35	.28	ATS049B-E
6.0000000	18.0pF	CTX915-ND	.49	.42	.35	.28	ATS060B-E
6.1440000	18.0pF	CTX916-ND	.49	.42	.35	.28	ATS061B-E
8.0000000	18.0pF	CTX917-ND	.49	.42	.35	.28	ATS080B-E
9.8304000	18.0pF	CTX918-ND	.49	.42	.35	.28	ATS098B-E
10.0000000	18.0pF	CTX919-ND	.49	.42	.35	.28	ATS100B-E
11.0592000	18.0pF	CTX920-ND	.49	.42	.35	.28	ATS111B-E
12.0000000	18.0pF	CTX921-ND	.49	.42	.35	.28	ATS120B-E
12.2880000	18.0pF	CTX922-ND	.49	.42	.35	.28	ATS122B-E
14.3181800	18.0pF	CTX923-ND	.49	.42	.35	.28	ATS143B-E
14.7456000	18.0pF	CTX925-ND	.49	.42	.35	.28	ATS147B-E
14.7456000	20.0pF	CTX924-ND	.49	.42	.35	.28	ATS147A-E
20.0000000	18.0pF	CTX926-ND	.49	.42	.35	.28	ATS200C-E
24.5760000	18.0pF	CTX927-ND	.49	.42	.35	.28	ATS245A-E
25.0000000	18.0pF	CTX928-ND	.49	.42	.35	.28	ATS250B-E

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

Microprocessor Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm @ 25°C
- **Operating Temperature:** -20°C ~ 70°C
- Fully hermetic resistance weld package

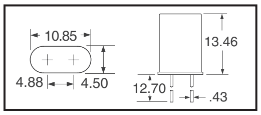

Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
±50ppm Frequency Stability -20°C ~ 70°C						
1.843200	13.0pF	CTX067-ND	1.83	1.58	1.05	MP018S
2.000000	18.0pF	CTX860-ND ***NEW!***	.61	.53	.35	MP020B
2.000000	20.0pF	CTX068-ND	1.83	1.58	1.05	MP020S
2.457600	32.0pF	CTX069-ND	1.83	1.58	1.05	MP024S
3.579545	18.0pF	CTX049-ND	.75	.65	.43	MP036S
3.686400	18.0pF	CTX861-ND ***NEW!***	.61	.53	.35	MP037B
3.686400	20.0pF	CTX071-ND	.75	.65	.43	MP037
4.000000	Series	CTX080-ND	.75	.65	.43	MP04A
4.000000	18.0pF	CTX862-ND ***NEW!***	.61	.53	.35	MP040B
4.000000	20.0pF	CTX006-ND	.75	.65	.43	MP040
4.194304	12.0pF	CTX007-ND	.75	.65	.43	MP041
4.915200	18.0pF	CTX863-ND ***NEW!***	.61	.53	.35	MP049B
4.915200	20.0pF	CTX050-ND	.75	.65	.43	MP042
5.000000	Series	CTX081-ND	.75	.65	.43	MP05B
5.000000	18.0pF	CTX864-ND ***NEW!***	.61	.53	.35	MP050C
5.000000	20.0pF	CTX051-ND	.75	.65	.43	MP05A
5.068000	Series	CTX052-ND	.75	.65	.43	MP050
6.000000	18.0pF	CTX865-ND ***NEW!***	.61	.53	.35	MP060B
6.000000	20.0pF	CTX026-ND	.75	.65	.43	MP060
6.144000	20.0pF	CTX054-ND	.75	.65	.43	MP061
7.372800	Series	CTX074-ND	.75	.65	.43	MP073
8.000000	Series	CTX056-ND	.75	.65	.43	MP080
8.000000	18.0pF	CTX866-ND ***NEW!***	.61	.53	.35	MP080B
8.000000	20.0pF	CTX082-ND	.75	.65	.43	MP08A
9.830400	18.0pF	CTX867-ND ***NEW!***	.61	.53	.35	MP098B
9.830400	20.0pF	CTX084-ND	.75	.65	.43	MP098
10.000000	Series	CTX057-ND	.75	.65	.43	MP100
10.000000	30.0pF	CTX083-ND	.75	.65	.43	MP101
10.738635	32.0pF	CTX085-ND	.75	.65	.43	MP107
11.000000	18.0pF	CTX086-ND	.75	.65	.43	MP110
11.059200	Series	CTX078-ND	.75	.65	.43	MP111
12.000000	Series	CTX058-ND	.75	.65	.43	MP120
12.288000	32.0pF	CTX087-ND	.75	.65	.43	MP122
14.318180	Series	CTX088-ND	.75	.65	.43	MP143
14.318180	18.0pF	CTX868-ND ***NEW!***	.61	.53	.35	MP143B
14.745600	Series	CTX089-ND	.75	.65	.43	MP147
15.000000	Series	CTX059-ND	.75	.65	.43	MP150
16.000000	Series	CTX077-ND	.75	.65	.43	MP160
18.432000	Series	CTX061-ND	.75	.65	.43	MP184
19.660800	Series	CTX090-ND	.75	.65	.43	MP196
20.000000	Series	CTX062-ND	.75	.65	.43	MP200
22.118400	20.0pF	CTX063-ND	.75	.65	.43	MP221
24.000000	Series	CTX091-ND	.75	.65	.43	MP240
24.576000	Series	CTX092-ND	.75	.65	.43	MP245
25.000000	Series	CTX093-ND	.75	.65	.43	MP250
NEW! ±50ppm Frequency Stability -40°C ~ 85°C NEW!						
2.0000000	18.0pF	CTX869-ND	1.40	1.21	.81	MP020B-E
3.6864000	18.0pF	CTX870-ND	.73	.63	.42	MP037B-E
4.0000000	18.0pF	CTX871-ND	.73	.63	.42	MP040B-E
4.9152000	18.0pF	CTX872-ND	.73	.63	.42	MP049B-E
5.0000000	18.0pF	CTX873-ND	.73	.63	.42	MP050C-E
6.0000000	18.0pF	CTX874-ND	.73	.63	.42	MP060B-E
8.0000000	18.0pF	CTX875-ND	.70	.60	.40	MP080B-E
9.8304000	18.0pF	CTX876-ND	.73	.63	.42	MP098B-E
14.318180	18.0pF	CTX877-ND	.73	.63	.42	MP143B-E

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS SMD Oscillators

Digi-Reel® RoHS COMPLIANT

625, 632, 636 and 635 Series Clock Oscillators

Specifications	625 Series	632 Series	636 Series	635 Series
Supply Voltage:	3.3V			
Frequency Stability:	±50ppm			
Output Type:	CMOS	HCMOS/TTL	HCMOS/TTL	LVPECL
Operating Temperature:	625L3C: -10°C ~ 70°C 625L3I: -40°C ~ 85°C	-40°C ~ 85°C	636L3C: -20°C ~ 70°C 636L3I: -40°C ~ 85°C	-40°C ~ 85°C
Storage Temperature:	-55°C ~ 125°C			

Dimensions (mm)				
	625 Series	632 Series	636 Series	635 Series
L	2.5	3.2	5.0	7.0
W	2.0	2.5	3.2	5.0
H	1.0	1.0	1.3	2.0

Fig. 1

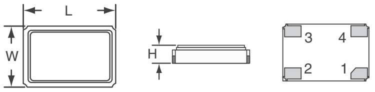

Pin	Symbol	Description
1	EOH	Enable Input
2	GND	Circuit & Pkg. Grd.
3	Output	RF Output
4	Vcc	Supply Voltage

Fig. 2

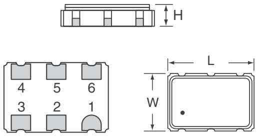

Pin	Symbol	Description
1	EOH or N.C.	Enable (std.) or optional No Connect
2	EOH or N.C.	No Connect (std.) or optional Enable
3	GND	Circuit and Package Ground
4	Output	RF Output
5	Output	Complimentary RF Output
6	VCC	Supply Voltage

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		CTS Part No.
			1	10	100		Qty.	Pricing	
625L3C (2.5 x 2.0) 3.3V, -10°C ~ 70°C, ±50ppm									
1	12.00000	CTX811CT-ND	7.13	6.18	4.28	CTX811TR-ND	3,000	2565.00/M	625L3C012M00000
	20.00000	CTX812CT-ND	7.13	6.18	4.28	CTX812TR-ND	3,000	2565.00/M	625L3C020M00000
	24.00000	CTX813CT-ND	7.13	6.18	4.28	CTX813TR-ND	3,000	2565.00/M	625L3C024M00000
	24.57600	CTX814CT-ND	7.13	6.18	4.28	CTX814TR-ND	3,000	2565.00/M	625L3C024M57600
	40.00000	CTX815CT-ND	7.13	6.18	4.28	CTX815TR-ND	3,000	2565.00/M	625L3C040M00000
NEW! 625L3I (2.5 x 2.0) 3.3V, -40°C ~ 85°C, ±50ppm NEW!									
1	4.00000	CTX941CT-ND	3.59	3.12	2.16	CTX941TR-ND	3,000	1293.30/M	625L3I004M00000
	8.00000	CTX942CT-ND	3.59	3.12	2.16	CTX942TR-ND	3,000	1293.30/M	625L3I008M00000
	10.00000	CTX943CT-ND	3.59	3.12	2.16	CTX943TR-ND	3,000	1293.30/M	625L3I010M00000
	25.00000	CTX944CT-ND	4.55	3.94	2.73	CTX944TR-ND	3,000	1636.20/M	625L3I025M00000
632L3I (3.2 x 2.5) 3.3V, -40°C ~ 85°C, ±50ppm									
1	4.0000	CTX940CT-ND ***NEW!***	3.59	3.12	2.16	CTX940TR-ND ***NEW!***	3,000	1293.30/M	632L3I004M00000
	10.000	CTX736CT-ND	7.35	6.37	4.41	—	—	—	632L3I010M00000
	20.000	CTX737CT-ND	7.35	6.37	4.41	CTX737TR-ND	3,000	1636.20/M	632L3I020M00000
	25.000	CTX740CT-ND	4.55	3.94	2.73	CTX740TR-ND	3,000	1636.20/M	632L3I025M00000
	40.000	CTX738CT-ND	4.55	3.94	2.73	CTX738TR-ND	3,000	1636.20/M	632L3I040M00000
	48.000	CTX739CT-ND	4.55	3.94	2.73	CTX739TR-ND	3,000	1636.20/M	632L3I048M00000
	50.000	CTX741CT-ND	4.55	3.94	2.73	CTX741TR-ND	3,000	1636.20/M	632L3I050M00000
636L3C (5.0 x 3.2) 3.3V, -20°C ~ 70°C, ±50ppm									
1	14.31818	CTX689CT-ND	3.92	3.40	2.35	CTX689TR-ND	1,000	1461.60	636L3C014M31818
	14.74560	CTX690CT-ND	3.92	3.40	2.35	CTX690TR-ND	1,000	1461.60	636L3C014M74560
	16.00000	CTX691CT-ND	3.92	3.40	2.35	CTX691TR-ND	1,000	1461.60	636L3C016M00000
	16.38400	CTX692CT-ND	3.92	3.40	2.35	CTX692TR-ND	1,000	1461.60	636L3C016M38400
	18.43200	CTX693CT-ND	3.92	3.40	2.35	CTX693TR-ND	1,000	1461.60	636L3C018M43200
	20.00000	CTX694CT-ND	3.92	3.40	2.35	CTX694TR-ND	1,000	1461.60	636L3C020M00000
	20.48000	CTX695CT-ND	3.92	3.40	2.35	CTX695TR-ND	1,000	1461.60	636L3C020M48000
	24.00000	CTX696CT-ND	3.92	3.40	2.35	CTX696TR-ND	1,000	1461.60	636L3C024M00000
	25.00000	CTX697CT-ND	3.92	3.40	2.35	CTX697TR-ND	1,000	1461.60	636L3C025M00000
	32.00000	CTX698CT-ND	3.92	3.40	2.35	CTX698TR-ND	1,000	1461.60	636L3C032M00000
	32.76800	CTX699CT-ND	3.92	3.14	2.61	CTX699TR-ND	1,000	1461.60	636L3C032M76800
	33.00000	CTX700CT-ND	3.92	3.40	2.35	CTX700TR-ND	1,000	1461.60	636L3C033M00000
	44.00000	CTX701CT-ND	3.92	3.40	2.35	—	—	—	636L3C044M00000
	48.00000	CTX702CT-ND	3.92	3.40	2.35	CTX702TR-ND	1,000	1461.60	636L3C048M00000
	75.00000	CTX703CT-ND	5.44	4.72	3.27	CTX703TR-ND	1,000	2333.80	636L3C075M00000
	100.00000	CTX725CT-ND	14.58	12.64	8.76	CTX725TR-ND	1,000	5444.60	636L3C100M00000
	125.00000	CTX726CT-ND	14.58	12.64	8.76	CTX726TR-ND	1,000	5444.60	636L3C125M00000
NEW! 636L3I (5.0 x 3.2) 3.3V, -40°C ~ 85°C, ±50ppm NEW!									
1	1.843200	CTX936CT-ND	2.42	2.10	1.45	CTX936TR-ND	1,000	901.60	636L3I001M84320
	3.686400	CTX937CT-ND	3.75	3.25	2.25	CTX937TR-ND	1,000	1400.00	636L3I003M68640
	4.000000	CTX938CT-ND	2.42	2.10	1.45	CTX938TR-ND	1,000	901.60	636L3I004M00000
	7.372800	CTX939CT-ND	2.42	2.10	1.45	CTX939TR-ND	1,000	901.60	636L3I007M37280
635P3I (7.0 x 5.0) 3.3V, -40°C ~ 85°C, ±50ppm LVPECL									
2	77.76	CTX727CT-ND	15.56	13.49	9.34	CTX727TR-ND	1,000	5810.00	635P3I3077M7600
	100.00	CTX728CT-ND	22.14	20.30	13.66	CTX728TR-ND	1,000	10333.40	635P3I3100M0000
	125.00	CTX729CT-ND	25.39	23.28	15.66	CTX729TR-ND	1,000	11846.80	635P3I3125M0000
	155.52	CTX730CT-ND	24.00	22.00	14.80	CTX730TR-ND	1,000	11200.00	635P3I3155M5200

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS CB3 Series 7.0 x 5.0 SMD Oscillators

Features:

- Standard miniature surface mount footprint
- PCMCIA Type II and III compatible
- HCMOS/TTL compatible
- 16mm Tape and Reel
- Ceramic construction for long-term reliability
- Seam welded and shielded with Kovar cover

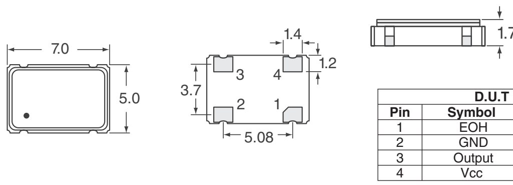

Enable Truth Table	
Pin 1	**Pin 3**
Logic “1”	Output
Open	Output
Logic “0”	High Imp.

D.U.T Pin Assignments

Pin	Symbol	Description
1	EOH	Enable Input
2	GND	Circuit & Package Ground
3	Output	RF Output
4	Vcc	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 1,000	CTS Part No.
		CB3-3C 5.0V, ±50ppm, -20°C ~ 70°C				
1.54400	CTX290CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-1M5440
1.84320	CTX291CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-1M8432
3.68640	CTX260CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-3M6864
4.00000	CTX261CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-4M0000
6.17600	CTX262CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-6M1760
7.37280	CTX263CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-7M3728
8.00000	CTX264CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-8M0000
10.00000	CTX265CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-10M0000
12.00000	CTX292CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-12M0000
12.28800	CTX266CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-12M2880
12.35200	CTX267CT-ND	3.73	3.44	1.98	1099.00	CB3-3C-12M3520
15.36000	CTX269CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-15M3600
16.00000	CTX270CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-16M0000
16.38400	CTX271CT-ND	3.73	3.44	1.98	—	CB3-3C-16M3840
18.43200	CTX293CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-18M4320
19.44000	CTX272CT-ND	3.73	3.44	1.98	—	CB3-3C-19M4400
20.00000	CTX273CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-20M0000
20.48000	CTX274CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-20M4800
24.00000	CTX294CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-24M0000
24.70400	CTX275CT-ND	3.73	3.44	1.98	1099.00	CB3-3C-24M7040
25.00000	CTX276CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-25M0000
29.49120	CTX295CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-29M4912
30.00000	CTX296CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-30M0000
32.00000	CTX277CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-32M0000
32.76800	CTX278CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-32M7680
33.33300	CTX279CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-33M3330
40.00000	CTX280CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-40M0000
44.73600	CTX281CT-ND	3.73	3.44	1.98	1099.00	CB3-3C-44M7360
45.00000	CTX297CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-45M0000
49.15200	CTX282CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-49M1520
50.00000	CTX283CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-50M0000
51.84000	CTX284CT-ND	3.73	3.44	1.98	1099.00	CB3-3C-51M8400
60.00000	CTX285CT-ND	2.94	2.56	2.24	1099.00	CB3-3C-60M0000
64.00000	CTX286CT-ND	2.98	2.59	2.27	1113.00	CB3-3C-64M0000
66.66660	CTX287CT-ND	3.78	3.48	2.00	1113.00	CB3-3C-66M6666
72.00000	CTX288CT-ND	3.78	3.48	2.00	1113.00	CB3-3C-72M0000
80.00000	CTX289CT-ND	3.16	2.74	2.40	1178.80	CB3-3C-80M0000
		CB3-3I 5.0V, ±50ppm, -40°C ~ 85°C				
16.00000	CTX304CT-ND	2.94	2.56	2.24	1099.00	CB3-3I-16M0000
18.43200	CTX300CT-ND	2.94	2.56	2.24	1099.00	CB3-3I-18M4320
20.00000	CTX306CT-ND	2.94	2.56	2.24	1099.00	CB3-3I-20M0000
40.00000	CTX314CT-ND	2.94	2.56	2.24	1099.00	CB3-3I-40M0000
		CB3LV-3C 3.3V, ±50ppm, -20°C ~ 70°C				
1.54400	CTX290LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-1M5440
1.84320	CTX291LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-1M8432
3.68640	CTX260LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-3M6864
4.00000	CTX261LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-4M0000
6.17600	CTX262LVCT-ND	3.73	3.44	1.98	1099.00	CB3LV-3C-6M1760
7.37280	CTX263LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-7M3728
8.00000	CTX264LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-8M0000
10.00000	CTX265LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-10M0000
12.00000	CTX292LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-12M0000
12.28800	CTX266LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-12M2880
12.35200	CTX267LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-12M3520
14.31818	CTX268LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-14M31818
15.36000	CTX269LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-15M3600
16.00000	CTX270LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-16M0000
16.38400	CTX271LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-16M3840
18.43200	CTX293LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-18M4320
19.44000	CTX272LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-19M4400
20.00000	CTX273LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-20M0000
20.48000	CTX274LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-20M4800
24.00000	CTX294LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-24M0000
24.70400	CTX275LVCT-ND	3.73	3.44	1.98	—	CB3LV-3C-24M7040
25.00000	CTX276LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-25M0000
29.49120	CTX295LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-29M4912
30.00000	CTX296LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-30M0000
32.00000	CTX277LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-32M0000
32.76800	CTX278LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-32M7680
33.33300	CTX279LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-33M3330
40.00000	CTX280LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-40M0000
44.73600	CTX281LVCT-ND	3.73	3.44	1.98	—	CB3LV-3C-44M7360
45.00000	CTX297LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-45M0000
49.15200	CTX282LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-49M1520
50.00000	CTX283LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-50M0000
51.84000	CTX284LVCT-ND	3.73	3.44	1.98	1099.00	CB3LV-3C-51M8400
60.00000	CTX285LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3C-60M0000
64.00000	CTX286LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3C-64M0000
66.66660	CTX287LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3C-66M6666
72.00000	CTX288LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3C-72M0000
80.00000	CTX289LVCT-ND	3.16	2.74	2.40	1178.80	CB3LV-3C-80M0000
		CB3LV-3I 3.3V, ±50ppm, -40°C ~ 85°C				
1.843200	CTX945LVCT-ND✔	2.29	1.99	1.73	1099.00	CB3LV-3I-1M8432
3.579545	CTX929LVCT-ND✔	2.19	1.90	1.65	816.20	CB3LV-3I-3M579545
3.686400	CTX946LVCT-ND✔	2.94	2.56	2.22	1099.00	CB3LV-3I-3M6864
4.000000	CTX930LVCT-ND✔	2.94	2.56	2.22	1099.00	CB3LV-3I-4M0000
7.37280	CTX325LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-7M3728
8.00000	CTX301LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-8M0000
8.19200	CTX302LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-8M1920
10.00000	CTX707LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-10M0000
11.05920	CTX931LVCT-ND✔	2.19	1.90	1.65	816.20	CB3LV-3I-11M0592
12.00000	CTX303LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-12M0000
14.31818	CTX932LVCT-ND✔	2.19	1.90	1.65	816.20	CB3LV-3I-14M31818
14.74560	CTX933LVCT-ND✔	2.94	2.56	2.22	1099.00	CB3LV-3I-14M7456
16.00000	CTX947LVCT-ND✔	2.94	2.56	2.22	1099.00	CB3LV-3I-16M0000
16.38400	CTX708LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-16M3840
18.43200	CTX305LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-18M4320
19.44000	CTX709LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-19M4400
20.00000	CTX306LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-20M0000
24.00000	CTX307LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-24M0000
24.57600	CTX326LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-24M5760
25.00000	CTX308LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-25M0000
27.00000	CTX710LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-27M0000
30.00000	CTX309LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-30M0000
32.00000	CTX310LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-32M0000
32.76800	CTX311LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-32M7680
33.00000	CTX312LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-33M0000
33.33330	CTX313LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-33M3333
40.00000	CTX314LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-40M0000
44.73600	CTX711LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-44M7360
48.00000	CTX315LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-48M0000
50.00000	CTX327LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-50M0000
60.00000	CTX712LVCT-ND	2.94	2.56	2.24	1099.00	CB3LV-3I-60M0000
64.00000	CTX328LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-64M0000
65.53600	CTX713LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-65M5360
66.00000	CTX316LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-66M0000
66.66600	CTX934LVCT-ND✔	2.48	2.16	1.87	926.80	CB3LV-3I-66M6660
74.25000	CTX714LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-74M2500
74.75280	CTX715LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-74M7528
75.00000	CTX716LVCT-ND	2.98	2.59	2.27	1113.00	CB3LV-3I-75M0000
77.76000	CTX717LVCT-ND	3.16	2.74	2.40	1178.80	CB3LV-3I-77M7600
80.00000	CTX317LVCT-ND	3.16	2.74	2.40	1178.80	CB3LV-3I-80M0000
100.00000	CTX318LVCT-ND	4.02	3.49	3.06	1500.80	CB3LV-3I-100M0000
106.25000	CTX718LVCT-ND	5.75	4.98	4.37	2144.80	CB3LV-3I-106M2500
125.00000	CTX319LVCT-ND	6.99	6.07	5.32	2611.00	CB3LV-3I-125M0000
133.33000	CTX320LVCT-ND	7.43	6.44	5.65	2773.40	CB3LV-3I-133M3300
150.00000	CTX719LVCT-ND	17.88	16.39	13.41	8344.00	CB3LV-3I-150M0000
156.25000	CTX720LVCT-ND	12.69	11.64	9.52	5923.40	CB3LV-3I-156M2500
160.00000	CTX935LVCT-ND✔	15.02	13.02	11.30	5608.40	CB3LV-3I-160M0000
		CB3LV-5I 3.3V, ±25ppm, -40°C ~ 85°C				
16.38400	CTX321LVCT-ND	4.31	3.74	3.28	1608.60	CB3LV-5I-16M3840
20.00000	CTX322LVCT-ND	4.31	3.74	3.28	1608.60	CB3LV-5I-20M0000
25.00000	CTX323LVCT-ND	4.31	3.74	3.28	1608.60	CB3LV-5I-25M0000
27.00000	CTX324LVCT-ND	4.31	3.74	3.28	1608.60	CB3LV-5I-27M0000

† For Tape and Reel part number, change CT-ND to TR-ND. ✔ ***NEW!***

Note: *For additional specifications and information please see datasheets or Digi-Key website.*

CTS® 357L Series Surface Mount VCXO

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	CTS Part No.
1.5440	CTX630CT-ND	6.86	5.49	4.58	2562.00	357LB3I001M5440
2.0480	CTX721CT-ND	4.69	4.07	2.82	1866.20	357LB3I002M0480
4.0960	CTX626CT-ND	6.86	5.95	4.12	2562.00	357LB3I004M0960
6.1760	CTX631CT-ND	6.86	5.49	4.58	2562.00	357LB3I006M1760
16.3840	CTX632CT-ND	6.86	5.95	4.12	2562.00	357LB3I016M3840
19.4400	CTX627CT-ND	6.86	5.49	4.58	2562.00	357LB3I019M4400
20.0000	CTX633CT-ND	6.86	5.49	4.58	—	357LB3I020M0000
27.0000	CTX634CT-ND	6.86	5.95	4.12	2562.00	357LB3I027M0000
32.7680	CTX635CT-ND	6.86	5.95	4.12	2562.00	357LB3I032M7680
35.3280	CTX628CT-ND	6.86	5.49	4.58	2562.00	357LB3I035M3280
38.8800	CTX636CT-ND	6.86	5.49	4.58	2562.00	357LB3I038M8800
40.0000	CTX637CT-ND	7.24	6.28	4.35	2702.00	357LB3I040M0000
61.4400	CTX722CT-ND	15.15	13.89	9.35	7070.00	357LB3I061M4400
65.3600	CTX723CT-ND	15.15	13.89	9.35	7070.00	357LB3I065M3600
77.7600	CTX724CT-ND	23.61	21.65	14.56	11018.00	357LB3I077M7600

* For Tape and Reel part number, change CT-ND to TR-ND.

Specifications: • **Output Voltage Level**: Logic “1” Minimum 0.9V; Logic “0” Maximum 0.1V • **Output Transition Rise and Fall Time:** 5.0ns • **Output Duty Cycle (SYM)**: 45% Minimum, 55% Maximum @ 50% level • **Phase Jitter (Bandwidth 12kHz-20MHz):** 1ps RMS Maximum • **Linearity:** 10% • **Input Impedance:** 50kΩ Minimum • **Modulation Roll-Off:** 10kHz @ -3dB • **Operating Temperature:** -40°C ~ 85°C

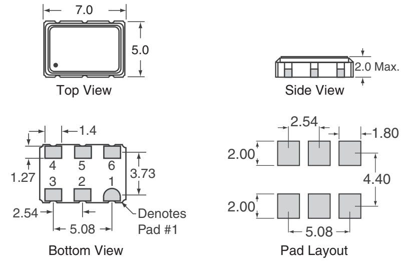

Enable Truth Table	
Pin 2	**Pin 4**
“1”	Output
“0”	High Imp.
Open	Output

Pin Connection	
1	Control Voltage
2	Tri-State Enable
3	Circuit/Package Ground
4	RF Output
5	Not Connected Internally
6	Supply Voltage

532 Series 5.0 x 3.2 Surface Mount TCXO

Specifications: • **Supply Voltage:** 3.3VDC • **Frequency Stability:** ±2.5ppm • **Operating Temperature Range:** -30°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 1,000	CTS Part No.
13.000	CTX807CT-ND	11.16	9.68	6.70	4166.40	532L25DT13M0000
19.200	CTX808CT-ND	5.12	4.44	3.07	1909.60	532L25DT19M2000
19.440	CTX809CT-ND	11.16	9.68	6.70	4166.40	532L25DT19M4400
26.000	CTX810CT-ND	6.49	5.63	3.90	2423.40	532L25DT26M0000

* For Tape and Reel part number, change CT-ND to TR-ND.

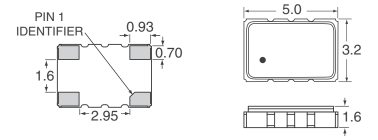

Pin Connection	
1	Vc
2	GND
3	Output
4	Vcc

MXO45 Clock Oscillators

Specifications: • **Frequency Stability:** ±50ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Supply Voltage:** 5.0V • **Supply Current:** 1.0 ~ 20MHz: 10 ~ 25mA; 20.1 ~ 80MHz: 30 ~ 50mA • **Output Load CMOS:** 1 ~ 50MHz: 50pF; 50.1 ~ 80MHz: 30pF • **Output Load TTL:** 1 ~ 80MHz: 10TTL • **Output Current:** V_{OH}=3.9V: -16mA; V_{OL}=0.4V: 16mA • **Output Duty Cycle:** 45 ~ 55% • **Rise and Fall Time:** 1.0 ~ 50MHz: 8 ~ 10ns; 50.1 ~ 80MHz: 4 ~ 8ns • **Start Up Time:** 10ms • **Enable Input (V_{IH}):** 2V Minimum; **(V_{IL}):** 0.8V Maximum • **Enable Time:** 100ns • **Phase Jitter:** 1ps

Standard Output: Features: • CMOS/TTL compatible • Fully hermetically-sealed package • Standard 14-Pin or 8-Pin DIP footprint • Drives up to 10 standard TTL Loads

Tri-State Output: Tri-State Logic uses the two standard logic levels of high (logic 1) and low (logic 0) but has added a third state that is not a logic level but an open circuit condition that effectively disconnects the output from your circuit with a high impedance (floating) state, thereby enabling the use of numerous oscillators on the same bus line. Also, by using the enable pin to control the output, the crystal is still running even when the output is disabled (stand-by mode), thus eliminating any start-up time for the oscillator.

CTS HCMOS/TTL products utilize an Application Specific Integrated Circuit (ASIC) design strategy. Employing a single design family supporting both HCMOS/TTL applications helps in reducing costs and lead times. Utilizing ASIC technology reduces the number of components inside the XO (crystal oscillator), thus increasing reliability and further reducing cost. **Features:** • CMOS/TTL compatible • Drives up to 10 standard TTL loads • Fully hermetic resistance weld package

Full Size

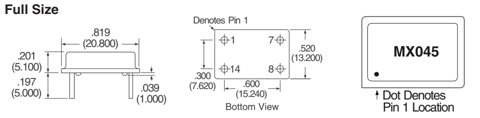

Pin Connection	
1	Enable Input
7	Circuit and Package Ground
8	RF Output
14	Supply Voltage

Half Size

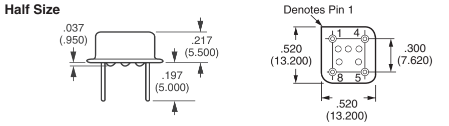

Pin Connection	
1	Enable Input
4	Circuit and Package Ground
5	RF Output
8	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	100	500	CTS Part No.
Full Size — Standard Output							
1.0000	CTX775-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-1M0000
1.8432	CTX776-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-1M8432
2.0000	CTX770-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-2M0000
4.0000	CTX774-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-4M0000
4.9152	CTX783-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-4M9152
5.0000	CTX769-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-5M0000
6.0000	CTX771-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-6M0000
6.1440	CTX786-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-6M1440
7.3728	CTX788-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-7M3728
8.0000	CTX768-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-8M0000
10.0000	CTX772-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-10M0000
12.0000	CTX766-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-12M0000
18.4320	CTX777-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-18M4320
20.0000	CTX778-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-20M0000
24.0000	CTX773-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-24M0000
28.3220	CTX780-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-28M3220
32.0000	CTX782-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-32M0000
40.0000	CTX784-ND	4.05	3.47	2.89	2.32	1.92	MXO45-3C-40M0000
64.0000	CTX787-ND	5.29	4.54	3.78	3.03	—	MXO45-3C-64M0000
Half Size — Standard Output							
1.0000	CTX745-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-1M0000
1.8432	CTX744-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-1M8432
3.6864	CTX762-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-3M6864
4.0000	CTX742-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-4M0000
4.9152	CTX763-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-4M9152
5.0000	CTX746-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-5M0000
6.1440	CTX764-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-6M1440
7.3728	CTX765-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-7M3728
8.0000	CTX743-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-8M0000
10.0000	CTX753-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-10M0000
14.31818	CTX752-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-14M31818
16.0000	CTX750-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-16M0000
20.0000	CTX756-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-20M0000
24.0000	CTX757-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-24M0000
25.0000	CTX758-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-25M0000
32.0000	CTX749-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-32M0000
40.0000	CTX748-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-40M0000
50.0000	CTX759-ND	4.05	3.47	2.89	2.32	1.92	MXO45HS-3C-50M0000
80.0000	CTX751-ND	8.51	7.29	6.08	4.86	4.04	MXO45HS-3C-80M0000
Half Size — Tri-State Output							
1.0000	CTX793-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-1M0000
5.0000	CTX800-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-5M0000
6.0000	CTX792-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-6M0000
8.0000	CTX803-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-8M0000
10.0000	CTX789-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-10M0000
16.0000	CTX795-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-16M0000
18.4320	CTX796-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-18M4320
20.0000	CTX791-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-20M0000
25.0000	CTX797-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-25M0000
32.0000	CTX799-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-32M0000
40.0000	CTX790-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-40M0000
50.0000	CTX801-ND	4.05	3.47	2.89	2.32	1.92	MXO45HST-3C-50M0000
66.66666	CTX802-ND	5.29	4.54	3.78	3.03	2.51	MXO45HST-3C-66M66666

A462-ND	Aries Electronics Inc.	Full Size 4-Pin Oscillator Sockets	**$1.15/1**	**$17.25/25**	**$54.05/100**
A463-ND	Aries Electronics Inc.	Half Size 4-Pin Oscillator Sockets	**$1.15/1**	**$17.25/25**	**$54.05/100**

CONNOR WINFIELD

SMD Oscillators

Series	Dimensions L	W	H
CWX813	7.0	5.0	1.3
CWX823	7.0	5.0	1.3
HSM92	7.5	5.0	1.4
HSM93	7.5	5.0	1.4
LM113	7.0	5.0	1.75
P122	7.0	5.0	1.5
P142	7.0	5.0	1.5
P212	7.0	5.0	1.5

Series	Dimensions L	W	H
P222	7.0	5.0	1.5
P123	7.0	5.0	1.5
P143	7.0	5.0	1.5
P213	7.0	5.0	1.5
P223	7.0	5.0	1.5
PM113	7.0	5.0	1.75
X502	7.62	5.13	2.54

For electrical specifications and additional info, please see datasheet on Digi-Key website.

Fig. 1 — LVCMOS and HCMOS

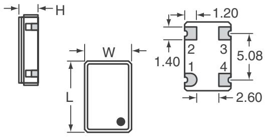

Pin Function	
1	Tri-State E/D
2	Ground
3	Output
4	Vcc

Fig. 2 — LVPECL

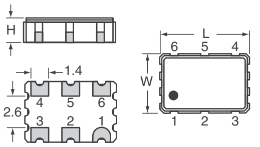

Pin Function	
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	Q̄ Output
6	Vcc

Fig. 3 — LVDS *NEW!*

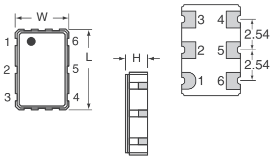

Pin Function	
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	Q̄ Output
6	Vcc

Fig. 4 — LVDS

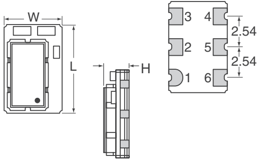

Pin Function	
1	N/C
2	Enable/Disable
3	Ground (Case)
4	Output Q
5	Comp Output Q̄
6	Vcc

Frequency (MHz)	Output Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
			1	10	100			
Fig. 1 — CWX813 Series — 3.3V ±25ppm, -20°C ~ 70°C								
1.5440	LVCMOS	CW510CT-ND	2.81	2.34	1.88	CW510TR-ND	1404.00	CWX813-001.544M
1.8432	LVCMOS	CW511CT-ND	2.81	2.34	1.88	CW511TR-ND	1404.00	CWX813-001.8432M
3.6864	LVCMOS	CW512CT-ND	2.81	2.34	1.88	CW512TR-ND	1404.00	CWX813-003.6864M
4.0000	LVCMOS	CW513CT-ND	2.81	2.34	1.88	CW513TR-ND	1404.00	CWX813-004.0M
7.3728	LVCMOS	CW514CT-ND	2.81	2.34	1.88	CW514TR-ND	1404.00	CWX813-007.3728M
8.0000	LVCMOS	CW515CT-ND	2.81	2.34	1.88	CW515TR-ND	1404.00	CWX813-008.0M
10.0000	LVCMOS	CW516CT-ND	2.81	2.34	1.88	CW516TR-ND	1404.00	CWX813-010.0M
12.0000	LVCMOS	CW517CT-ND	2.81	2.34	1.88	CW517TR-ND	1404.00	CWX813-012.0M
12.2880	LVCMOS	CW518CT-ND	2.81	2.34	1.88	CW518TR-ND	1404.00	CWX813-012.288M
14.3182	LVCMOS	CW519CT-ND	2.81	2.34	1.88	CW519TR-ND	1404.00	CWX813-014.31818M
15.3600	LVCMOS	CW520CT-ND	2.81	2.34	1.88	CW520TR-ND	1404.00	CWX813-015.36M
16.0000	LVCMOS	CW521CT-ND	2.81	2.34	1.88	CW521TR-ND	1404.00	CWX813-016.0M
16.3840	LVCMOS	CW522CT-ND	2.81	2.34	1.88	CW522TR-ND	1404.00	CWX813-016.384M
18.4320	LVCMOS	CW523CT-ND	2.81	2.34	1.88	CW523TR-ND	1404.00	CWX813-018.432M
19.4400	LVCMOS	CW524CT-ND	2.81	2.34	1.88	CW524TR-ND	1404.00	CWX813-019.44M
20.0000	LVCMOS	CW525CT-ND	2.81	2.34	1.88	CW525TR-ND	1404.00	CWX813-020.0M
20.4800	LVCMOS	CW526CT-ND	2.81	2.34	1.88	CW526TR-ND	1404.00	CWX813-020.48M
24.0000	LVCMOS	CW527CT-ND	2.81	2.34	1.88	CW527TR-ND	1404.00	CWX813-024.0M
24.5760	LVCMOS	CW528CT-ND	2.81	2.34	1.88	CW528TR-ND	1404.00	CWX813-024.576M
25.0000	LVCMOS	CW529CT-ND	2.81	2.34	1.88	CW529TR-ND	1404.00	CWX813-025.0M
27.0000	LVCMOS	CW530CT-ND	2.81	2.34	1.88	CW530TR-ND	1404.00	CWX813-027.0M
29.4912	LVCMOS	CW531CT-ND	2.81	2.34	1.88	CW531TR-ND	1404.00	CWX813-029.4912M
30.0000	LVCMOS	CW532CT-ND	2.81	2.34	1.88	CW532TR-ND	1404.00	CWX813-030.0M
32.0000	LVCMOS	CW533CT-ND	2.81	2.34	1.88	CW533TR-ND	1404.00	CWX813-032.0M
32.7680	LVCMOS	CW534CT-ND	2.81	2.34	1.88	CW534TR-ND	1404.00	CWX813-032.768M
33.0000	LVCMOS	CW535CT-ND	2.81	2.34	1.88	CW535TR-ND	1404.00	CWX813-033.0M
33.3330	LVCMOS	CW536CT-ND	2.81	2.34	1.88	CW536TR-ND	1404.00	CWX813-033.333M
40.0000	LVCMOS	CW537CT-ND	2.81	2.34	1.88	CW537TR-ND	1404.00	CWX813-040.0M
44.7360	LVCMOS	CW538CT-ND	2.81	2.34	1.88	CW538TR-ND	1404.00	CWX813-044.736M
45.0000	LVCMOS	CW539CT-ND	2.81	2.34	1.88	CW539TR-ND	1404.00	CWX813-045.0M
49.1520	LVCMOS	CW540CT-ND	2.81	2.34	1.88	CW540TR-ND	1404.00	CWX813-049.152M
50.0000	LVCMOS	CW541CT-ND	2.81	2.34	1.88	CW541TR-ND	1404.00	CWX813-050.0M
60.0000	LVCMOS	CW542CT-ND	2.81	2.34	1.88	CW542TR-ND	1404.00	CWX813-060.0M
64.0000	LVCMOS	CW543CT-ND	3.21	2.68	2.15	CW543TR-ND	1606.50	CWX813-064.0M
66.6666	LVCMOS	CW544CT-ND	3.21	2.68	2.15	CW544TR-ND	1606.50	CWX813-066.6666M
72.0000	LVCMOS	CW545CT-ND	3.21	2.68	2.15	CW545TR-ND	1606.50	CWX813-072.0M
80.0000	LVCMOS	CW546CT-ND	3.21	2.68	2.15	CW546TR-ND	1606.50	CWX813-080.0M
100.0000	LVCMOS	CW547CT-ND	3.92	3.27	2.61	CW547TR-ND	1957.50	CWX813-100.0M
Fig. 1 — CWX823 Series — 3.3V ±50ppm, -20°C ~ 70°C								
1.5440	LVCMOS	CW431CT-ND	2.13	1.78	1.43	CW431TR-ND	1066.50	CWX823-001.544M
1.8432	LVCMOS	CW432CT-ND	2.13	1.78	1.43	CW432TR-ND	1066.50	CWX823-001.8432M
3.6864	LVCMOS	CW433CT-ND	2.13	1.78	1.43	CW433TR-ND	1066.50	CWX823-003.6864M
4.0000	LVCMOS	CW434CT-ND	2.13	1.78	1.43	CW434TR-ND	1066.50	CWX823-004.0M
7.3728	LVCMOS	CW435CT-ND	2.13	1.78	1.43	CW435TR-ND	1066.50	CWX823-007.3728M
8.0000	LVCMOS	CW436CT-ND	2.13	1.78	1.43	CW436TR-ND	1066.50	CWX823-008.0M
10.0000	LVCMOS	CW437CT-ND	2.13	1.78	1.43	CW437TR-ND	1066.50	CWX823-010.0M
12.0000	LVCMOS	CW438CT-ND	2.13	1.78	1.43	CW438TR-ND	1066.50	CWX823-012.0M
12.2880	LVCMOS	CW439CT-ND	2.13	1.78	1.43	CW439TR-ND	1066.50	CWX823-012.288M
14.3182	LVCMOS	CW440CT-ND	2.13	1.78	1.43	CW440TR-ND	1066.50	CWX823-014.31818M
15.3600	LVCMOS	CW441CT-ND	2.13	1.78	1.43	CW441TR-ND	1066.50	CWX823-015.36M
16.0000	LVCMOS	CW442CT-ND	2.13	1.78	1.43	CW442TR-ND	1066.50	CWX823-016.0M
16.3840	LVCMOS	CW443CT-ND	2.13	1.78	1.43	CW443TR-ND	1066.50	CWX823-016.384M
18.4320	LVCMOS	CW444CT-ND	2.13	1.78	1.43	CW444TR-ND	1066.50	CWX823-018.432M
19.4400	LVCMOS	CW445CT-ND	2.13	1.78	1.43	CW445TR-ND	1066.50	CWX823-019.44M
20.0000	LVCMOS	CW446CT-ND	2.13	1.78	1.43	CW446TR-ND	1066.50	CWX823-020.0M
20.4800	LVCMOS	CW447CT-ND	2.13	1.78	1.43	CW447TR-ND	1066.50	CWX823-020.48M
24.0000	LVCMOS	CW448CT-ND	2.13	1.78	1.43	CW448TR-ND	1066.50	CWX823-024.0M
24.5760	LVCMOS	CW449CT-ND	2.13	1.78	1.43	CW449TR-ND	1066.50	CWX823-024.576M
25.0000	LVCMOS	CW450CT-ND	2.13	1.78	1.43	CW450TR-ND	1066.50	CWX823-025.0M
27.0000	LVCMOS	CW451CT-ND	2.13	1.78	1.43	CW451TR-ND	1066.50	CWX823-027.0M
29.4912	LVCMOS	CW452CT-ND	2.13	1.78	1.43	CW452TR-ND	1066.50	CWX823-029.4912M
30.0000	LVCMOS	CW453CT-ND	2.13	1.78	1.43	CW453TR-ND	1066.50	CWX823-030.0M
32.0000	LVCMOS	CW454CT-ND	2.13	1.78	1.43	CW454TR-ND	1066.50	CWX823-032.0M
32.7680	LVCMOS	CW455CT-ND	2.13	1.78	1.43	CW455TR-ND	1066.50	CWX823-032.768M
33.0000	LVCMOS	CW456CT-ND	2.13	1.78	1.43	CW456TR-ND	1066.50	CWX823-033.0M
33.3330	LVCMOS	CW457CT-ND	2.13	1.78	1.43	CW457TR-ND	1066.50	CWX823-033.333M
40.0000	LVCMOS	CW458CT-ND	2.13	1.78	1.43	CW458TR-ND	1066.50	CWX823-040.0M
44.7360	LVCMOS	CW459CT-ND	2.13	1.78	1.43	CW459TR-ND	1066.50	CWX823-044.736M
45.0000	LVCMOS	CW460CT-ND	2.13	1.78	1.43	CW460TR-ND	1066.50	CWX823-045.0M
49.1520	LVCMOS	CW461CT-ND	2.13	1.78	1.43	CW461TR-ND	1066.50	CWX823-049.152M
50.0000	LVCMOS	CW462CT-ND	2.13	1.78	1.43	CW462TR-ND	1066.50	CWX823-050.0M
60.0000	LVCMOS	CW463CT-ND	2.13	1.78	1.43	CW463TR-ND	1066.50	CWX823-060.0M
64.0000	LVCMOS	CW464CT-ND	2.40	2.01	1.61	CW464TR-ND	1201.50	CWX823-064.0M
66.6666	LVCMOS	CW465CT-ND	2.40	2.01	1.61	CW465TR-ND	1201.50	CWX823-066.6666M
72.0000	LVCMOS	CW466CT-ND	2.40	2.01	1.61	CW466TR-ND	1201.50	CWX823-072.0M
80.0000	LVCMOS	CW467CT-ND	2.40	2.01	1.61	CW467TR-ND	1201.50	CWX823-080.0M
100.0000	LVCMOS	CW468CT-ND	3.11	2.59	2.07	CW468TR-ND	1552.50	CWX823-100.0M
125.0000	LVCMOS	CW469CT-ND	5.94	4.95	3.96	CW469TR-ND	2970.00	CWX823-125.0M
156.2500	LVCMOS	CW470CT-ND	11.48	9.57	7.65	CW470TR-ND	5737.50	CWX823-156.25M
Fig. 1 — HSM92 Series — 5.0V ±50ppm, 0°C ~ 70°C								
29.4912	HCMOS	CW341-ND	12.15	10.13	8.10	—	—	HSM92-029.4912M
44.2368	HCMOS	CW342-ND	12.15	10.13	8.10	—	—	HSM92-044.2368M
Fig. 1 — HSM93 Series — 5.0V ±100ppm, 0°C ~ 70°C								
4.9152	HCMOS	CW301-ND	11.61	9.68	7.74	—	—	HSM93-004.9152M
8.0000	HCMOS	CW302-ND	11.61	9.68	7.74	—	—	HSM93-008.0M
10.0000	HCMOS	CW303-ND	11.61	9.68	7.74	—	—	HSM93-010.0M
16.0000	HCMOS	CW304-ND	11.61	9.68	7.74	—	—	HSM93-016.0M
20.0000	HCMOS	CW305-ND	11.61	9.68	7.74	—	—	HSM93-020.0M
25.0000	HCMOS	CW306-ND	11.61	9.68	7.74	—	—	HSM93-025.0M
32.0000	HCMOS	CW307-ND	11.61	9.68	7.74	—	—	HSM93-032.0M
40.0000	HCMOS	CW308-ND	11.61	9.68	7.74	—	—	HSM93-040.0M
50.0000	HCMOS	CW309-ND	11.61	9.68	7.74	—	—	HSM93-050.0M
60.0000	HCMOS	CW310-ND	13.23	11.03	8.82	—	—	HSM93-060.0M
Fig. 2 — P122 Series — 2.5V ±50ppm, 0°C ~ 70°C								
100.00	LVPECL	CW598-ND	22.50	18.00	14.50	—	—	P122-100.0M
125.00	LVPECL	CW599-ND	22.50	18.00	14.50	—	—	P122-125.0M
155.52	LVPECL	CW600-ND	23.63	18.90	15.23	—	—	P122-155.52M
156.25	LVPECL	CW601-ND	23.63	18.90	15.23	—	—	P122-156.25M
Fig. 2 — P142 Series — 2.5V ±20ppm, 0°C ~ 70°C								
100.00	LVPECL	CW594-ND	24.75	19.80	15.95	—	—	P142-100.00M
125.00	LVPECL	CW595-ND	24.75	19.80	15.95	—	—	P142-125.0M
155.52	LVPECL	CW596-ND	25.88	20.70	16.68	—	—	P142-155.52M
156.25	LVPECL	CW597-ND	25.88	20.70	16.68	—	—	P142-156.25M
Fig. 2 — P212 Series — 2.5V ±25ppm, -40°C ~ 85°C								
100.00	LVPECL	CW610-ND	27.00	21.60	17.40	—	—	P212-100.0M
125.00	LVPECL	CW611-ND	27.00	21.60	17.40	—	—	P212-125.0M
155.52	LVPECL	CW612-ND	28.13	22.50	18.13	—	—	P212-155.52M
156.25	LVPECL	CW613-ND	28.13	22.50	18.13	—	—	P212-156.25M
Fig. 2 — P222 Series — 2.5V ±50ppm, -40°C ~ 85°C								
100.00	LVPECL	CW614-ND	24.75	19.80	15.95	—	—	P222-100.0M
125.00	LVPECL	CW615-ND	24.75	19.80	15.95	—	—	P222-125.0M
155.52	LVPECL	CW616-ND	25.88	20.70	16.68	—	—	P222-155.52M
156.25	LVPECL	CW617-ND	25.88	20.70	16.68	—	—	P222-156.25M
Fig. 2 — P123 Series — 3.3V ±50ppm, 0°C ~ 70°C								
100.00	LVPECL	CW590-ND	22.50	18.00	14.50	—	—	P123-100.0M
125.00	LVPECL	CW591-ND	22.50	18.00	14.50	—	—	P123-125.0M
155.52	LVPECL	CW592-ND	23.63	18.90	15.23	—	—	P123-155.52M
156.25	LVPECL	CW593-ND	23.63	18.90	15.23	—	—	P123-156.25M
Fig. 2 — P143 Series — 3.3V ±20ppm, 0°C ~ 70°C								
100.00	LVPECL	CW586-ND	24.75	19.80	15.95	—	—	P143-100.0M
125.00	LVPECL	CW587-ND	24.75	19.80	15.95	—	—	P143-125.0M
155.52	LVPECL	CW588-ND	25.88	20.70	16.68	—	—	P143-155.52M
156.25	LVPECL	CW589-ND	25.88	20.70	16.68	—	—	P143-156.25M
Fig. 2 — P213 Series — 3.3V ±25ppm, -40°C ~ 85°C								
100.00	LVPECL	CW602-ND	27.00	21.60	17.40	—	—	P213-100.0M
125.00	LVPECL	CW603-ND	27.00	21.60	17.40	—	—	P213-125.0M
155.52	LVPECL	CW604-ND	28.13	22.50	18.13	—	—	P213-155.52M
156.25	LVPECL	CW605-ND	28.13	22.50	18.13	—	—	P213-156.25M
Fig. 2 — P223 Series — 3.3V ±50ppm, -40°C ~ 85°C								
100.00	LVPECL	CW606-ND	24.75	19.80	15.95	—	—	P223-100.0M
125.00	LVPECL	CW607-ND	24.75	19.80	15.95	—	—	P223-125.0M
155.52	LVPECL	CW608-ND	25.88	20.70	16.68	—	—	P223-155.52M
156.25	LVPECL	CW609-ND	25.88	20.70	16.68	—	—	P223-156.25M
NEW! Fig. 2 — PM113 Series — 3.3V ±25ppm, 0°C ~ 70°C NEW!								
161.1328	LVPECL	CW664-ND	24.75	19.80	15.95	—	—	PM113-161.1328M
200.00	LVPECL	CW665-ND	24.75	19.80	15.95	—	—	PM113-200.0M
212.50	LVPECL	CW666-ND	24.75	19.80	15.95	—	—	PM113-212.5M
250.00	LVPECL	CW667-ND	24.75	19.80	15.95	—	—	PM113-250.0M
311.04	LVPECL	CW668-ND	24.75	19.80	15.95	—	—	PM113-311.04M
312.50	LVPECL	CW669-ND	24.75	19.80	15.95	—	—	PM113-312.5M
318.75	LVPECL	CW670-ND	24.75	19.80	15.95	—	—	PM113-318.75M
466.56	LVPECL	CW671-ND	24.75	19.80	15.95	—	—	PM113-466.56M
622.08	LVPECL	CW672-ND	24.75	19.80	15.95	—	—	PM113-622.08M
625.00	LVPECL	CW673-ND	24.75	19.80	15.95	—	—	PM113-625.0M
NEW! Fig. 3 — LM113 Series — 3.3V ±25ppm, 0°C ~ 70°C NEW!								
200.00	LVDS	CW674-ND	24.75	19.80	15.95	—	—	LM113-200.0M
288.00	LVDS	CW675-ND	24.75	19.80	15.95	—	—	LM113-288.0M
311.04	LVDS	CW676-ND	24.75	19.80	15.95	—	—	LM113-311.04M
312.50	LVDS	CW677-ND	24.75	19.80	15.95	—	—	LM113-312.5M
425.00	LVDS	CW678-ND	24.75	19.80	15.95	—	—	LM113-425.0M
Fig. 4 — X502 Series — 3.3V ±20ppm, 0°C ~ 70°C								
622.08	LVDS	CW618-ND	64.13	51.30	41.33	—	—	X502-622.08M

CONNOR WINFIELD

TCXO, VCXO and OCXO

Note: *For additional specifications, please see the manufacturer's data sheets on Digi-Key website.*

Fig. 1 — D32G Series

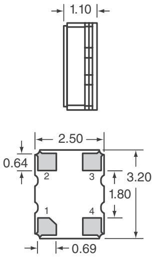

Pin Connection	
1	N/C
2	Ground
3	Output
4	Supply, Vcc

Fig. 2 — D53G Series

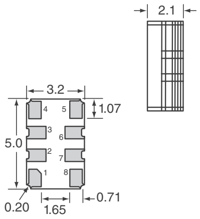

Pin Connection	
1	N/C
2	Do not Connect
3	Do not Connect
4	Ground
5	Output
6	Do not Connect
7	Do not Connect
8	Supply, Vcc

Fig. 3 — D75A, D75F, D75J and D75AS Series

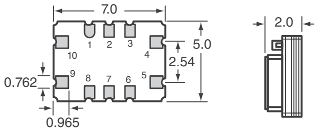

Pin Connections:

D75A, D75F and D75J Series	
1	Do not Connect
2	Do not Connect
3	Do not Connect
4	Ground
5	Output
6	Do not Connect
7	Do not Connect
8	Tri-State Enable/Disable
9	Supply, Vcc
10	Do not Connect

D75AS Series	
1	Do not Connect
2	Do not Connect
3	Do not Connect
4	Ground
5	Output
6	Do not Connect
7	Do not Connect
8	Enable/Disable
9	Supply, Vcc
10	Do not Connect

Fig. 4 — TFLD Series

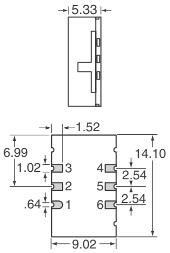

Pin Connection	
1	N/C
2	N/C
3	Ground
4	Output
5	N/C
6	Vcc

Fig. 5 — V702 and V802 Series

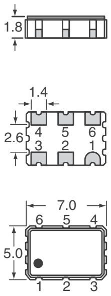

Note: *For pin outs and output characteristics, please see data sheet on Digi-Key website.*

Frequency (MHz)	Input Voltage (V)	Frequency Stability	Output Type	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
TCXO								
Fig. 1 — D32G Series								
16.3680	3.3	±0.5ppm	Clipped Sinewave	CW660-ND	33.75	27.00	21.75	D32G-016.368M
19.2000	3.3	±0.5ppm	Clipped Sinewave	CW661-ND	33.75	27.00	21.75	D32G-019.2M
26.0000	3.3	±0.5ppm	Clipped Sinewave	CW662-ND	33.75	27.00	21.75	D32G-026.0M
Fig. 2 — D53G Series								
20.0000	3.3	±0.5ppm	Clipped Sinewave	CW658-ND	30.38	24.30	19.58	D53G-020.0M
26.0000	3.3	±0.5ppm	Clipped Sinewave	CW659-ND	30.38	24.30	19.58	D53G-026.0M
Fig. 3 — D75A Series								
10.0000	3.3	±0.28ppm	LVCMOS	CW648-ND	31.50	25.20	20.30	D75A-010.0M
12.8000	3.3	±0.28ppm	LVCMOS	CW649-ND	31.50	25.20	20.30	D75A-012.8M
19.2000	3.3	±0.28ppm	LVCMOS	CW650-ND	31.50	25.20	20.30	D75A-019.2M
20.0000	3.3	±0.28ppm	LVCMOS	CW651-ND	31.50	25.20	20.30	D75A-020.0M
Fig. 3 — D75F Series								
13.0000	3.3	±0.5ppm	LVCMOS	CW652-ND	23.06	18.45	14.87	D75F-013.0M
19.4400	3.3	±0.5ppm	LVCMOS	CW653-ND	23.06	18.45	14.87	D75F-019.44M
25.0000	3.3	±0.5ppm	LVCMOS	CW654-ND	23.06	18.45	14.87	D75F-025.0M
27.0000	3.3	±0.5ppm	LVCMOS	CW655-ND	23.06	18.45	14.87	D75F-027.0M
Fig. 3 — D75J Series								
38.8800	3.3	±1.0ppm	LVCMOS	CW656-ND	18.00	14.40	11.60	D75J-038.88M
40.0000	3.3	±1.0ppm	LVCMOS	CW679-ND✔	18.00	14.40	11.60	D75J-040.0M
50.0000	3.3	±1.0ppm	LVCMOS	CW657-ND	18.00	14.40	11.60	D75J-050.0M
Fig. 3 — D75AS Series								
20.0000	3.3	±0.25ppm	Clipped Sinewave	CW663-ND	31.50	25.20	20.30	D75AS-020.0M
Fig. 4 — TFLD Series								
12.8000	3.3	±4.6ppm	HCMOS	CW619-ND	49.50	39.60	31.90	TFLD546-012.8M
20.0000	3.3	±4.6ppm	HCMOS	CW620-ND	49.50	39.60	31.90	TFLD546-020.0M

Frequency (MHz)	Input Voltage (V)	Frequency Stability	Output Type	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
VCXO								
Fig. 5 — V702 Series								
155.5200	3.3	±50ppm/APR	LVPECL	CW625-ND	37.13	29.70	23.93	V702-155.52M
156.2500	3.3	±50ppm/APR	LVPECL	CW626-ND	37.13	29.70	23.93	V702-156.25M
Fig. 5 — V802 Series								
74.17580	3.3	±50ppm/APR	LVCMOS	CW621-ND	31.50	25.20	20.30	V802-074.1758M
74.25000	3.3	±50ppm/APR	LVCMOS	CW622-ND	31.50	25.20	20.30	V802-074.25M
100.0000	3.3	±50ppm/APR	LVCMOS	CW623-ND	33.75	27.00	21.75	V802-100.0M
125.0000	3.3	±50ppm/APR	LVCMOS	CW624-ND	33.75	27.00	21.75	V802-125.0M
OCXO Stratum 3								
ASOF3, ASOF5 and BSOF3 Series ▼								
10.0000	3.3	±0.25ppm	LVCMOS	CW627-ND	112.50	90.00	72.50	ASOF3S3-010.0M
12.8000	3.3	±0.25ppm	LVCMOS	CW628-ND	112.50	90.00	72.50	ASOF3S3-012.8M
20.0000	3.3	±0.25ppm	LVCMOS	CW629-ND	112.50	90.00	72.50	ASOF3S3-020.0M
12.8000	5.0	±0.25ppm	HCMOS	CW630-ND	112.50	90.00	72.50	ASOF5S3-012.8M
19.4400	5.0	±0.25ppm	HCMOS	CW631-ND	112.50	90.00	72.50	ASOF5S3-019.44M
10.0000	3.3	±10ppb	HCMOS	CW634-ND	202.50	162.00	130.50	BSOF3S3E-010.0M
OCXO								
DGOF and OFC5 Series — 5.0V ▼								
10.0000	5.0	±.25ppm	HCMOS	CW632-ND	135.00	108.00	87.00	DGOF5S3-010.0M
20.0000	5.0	±.25ppm	HCMOS	CW633-ND	135.00	108.00	87.00	DGOF5S3-020.0M
10.0000	5.0	±20ppb	Sinewave	CW635-ND	213.75	171.00	137.75	OFC5DJ3BS-010.0M
20.0000	5.0	±20ppb	Sinewave	CW636-ND	213.75	171.00	137.75	OFC5DJ3BS-020.0M

▼ For package specifications and additional information, please see datasheet on Digi-Key website.
✔ NEW!

Surface Mount Crystals

Specifications:

CS-018 Series:
- Frequency Calibration: ±100ppm • Frequency Stability: ±100ppm • Temperature Range: -40°C ~ 85°C

CS-023 Series:
- Frequency Calibration: ±20ppm • Frequency Stability: ±20ppm • Temperature Range: -40°C ~ 85°C

XL-1C and XM-1 Series:
- Temperature Stability: ±50ppm • Frequency Tolerance: ±50ppm @25°C • Operating Temperature: -10°C ~ 60°C • Drive Level: 1mW Typical

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel Pricing† 1,000	Connor-Winfield Part No.
Fig. 1 — CS-018 and CS-023 Series								
114.285	18pF	CW646CT-ND	4.05	3.38	2.70	2.18	2025.00	CS-018-114.285M
114.285	18pF	CW647CT-ND	5.40	4.50	3.60	2.90	2700.00	CS-023-114.285M
Fig. 2 — XL-1C Series								
10.0000	16pF	CW401CT-ND	4.73	3.94	3.15	—	—	XL-1C-010.0M
12.0000	16pF	CW402CT-ND	4.73	3.94	3.15	—	—	XL-1C-012.0M
16.0000	16pF	CW403CT-ND	4.73	3.94	3.15	—	—	XL-1C-016.M
18.4320	16pF	CW404CT-ND	4.73	3.94	3.15	—	—	XL-1C-018.432M
20.0000	16pF	CW405CT-ND	4.73	3.94	3.15	—	—	XL-1C-020.0M
Fig. 3 — XM-1 Series								
10.0000	16pF	CW421CT-ND	7.83	6.53	5.22	—	—	XM-1-010.0M
12.0000	16pF	CW422CT-ND	7.83	6.53	5.22	—	—	XM-1-012.0M
16.0000	16pF	CW423CT-ND	7.83	6.53	5.22	—	—	XM-1-016.0M
18.4320	16pF	CW424CT-ND	7.83	6.53	5.22	—	—	XM-1-018.432M

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1 — CS-018 and CS-023 Series

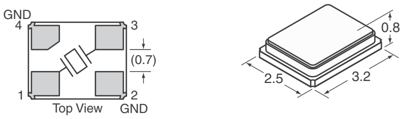

Fig. 2 — XL-1C Series

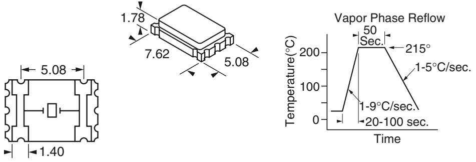

Fig. 3 — XM-1 Series

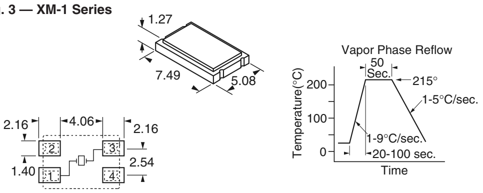

SII Seiko Instruments Inc. 32.768kHz Crystals

RoHS COMPLIANT

Dim. in mm

Fig. 1

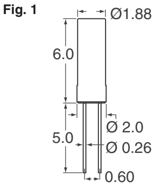

Fig. 2

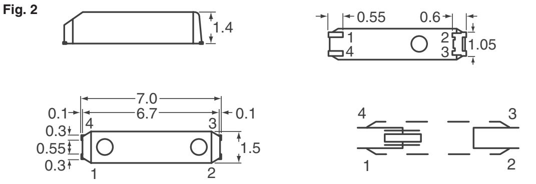

Fig. 3

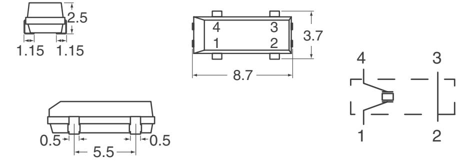

Fig.	Load Capacitance (pF)	Frequency Tolerance (ppm)	Operating Temperature Range	ESR Max. (Ω)	Drive Level Typ.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Seiko Instruments Part No.
							1	10	50			
1	6.0	±20	-10°C ~ 60°C	50K	0.1µW	728-1000-ND†	.35	.30	.20	—	—	VT200F-6PF20PPM
	12.5	±20	-10°C ~ 60°C	50K	0.1µW	728-1001-ND†	.35	.30	.20	—	—	VT200F-12.5PF20PPM
2	7.0	±20	-40°C ~ 85°C	65K	0.1µW	728-1002-1-ND	1.05	.90	.75	728-1002-2-ND	460.00/M	SSPT7F-7PF20PPM
	12.5	±20	-40°C ~ 85°C	65K	0.1µW	728-1003-1-ND	1.05	.90	.75	728-1003-2-ND	460.00/M	SSPT7F-12.5PF20PPM
3	6.0	±20	-40°C ~ 85°C	50K	0.1µW	728-1004-1-ND	.70	.60	.50	728-1004-2-ND	307.00/M	SPT2AF-6PF20PPM
	12.5	±20	-40°C ~ 85°C	50K	0.1µW	728-1005-1-ND	.70	.60	.50	—	—	SPT2AF-12.5PF20PPM

† Bulk

LINEAR TECHNOLOGY Silicon Oscillators

Digi-Reel®

Fig. 1 — TSOT23-5

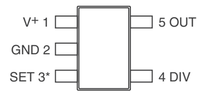

* Pin 3 OE on LTC6905-XXX

Fig. 2 — 10-MSOP

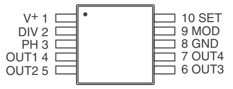

Fig. 3 — 8-MSOP

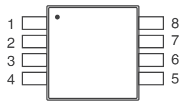

Pin Function			
#	LTC6903	LTC6904	LTC6930
1	GND	GND	V+
2	SDI	SDI	GND
3	SCK	SCK	DIVA
4	SEN	ADR	DIVB
5	CLK	CLK	DIVC
6	CLK	CLK	GND
7	OE	OE	OUT
8	V+	V+	V+

Fig. 4 — 8-DFN

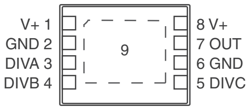

Fig. 5 — SOT23-6

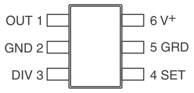

Fig. 6 — 16-MSOP ***NEW!***

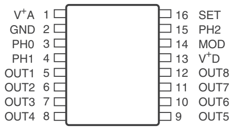

Features: Linear's solid-state "instant clocks" can be set to output a broad range of frequencies using a single resistor, or via an SPI or I²C interface.

Fig.	Description	Frequency Range	Supply Current @ Frequency	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing† 500
					1	25	100	
1	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799CS5#TRMPBFCT-ND◆	3.89	3.48	3.13	1015.00
	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799IS5#TRMPBFCT-ND◆	4.31	3.85	3.47	1395.00
	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799HS5#TRMPBFCT-ND◆	4.70	4.20	3.78	1520.00
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900CS5#TRMCT-ND	3.89	3.48	3.13	—
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900CS5#TRMPBFCT-ND◆	3.89	3.48	3.13	1015.00
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900IS5#TRMPBFCT-ND◆	4.31	3.85	3.47	1395.00
	Fixed Frequency Oscillator	25/50/100MHz	12mA @ 100MHz	LTC6905CS5-100#TRMPBFCT-ND◆	2.80	2.50	2.25	705.00
	Fixed Frequency Oscillator	33.3/66.7/133MHz	15mA @ 133MHz	LTC6905CS5-133#TRM-ND	2.80	2.50	2.25	—
	Fixed Frequency Oscillator	33.3/66.7/133MHz	15mA @ 133MHz	LTC6905CS5-133#TRMPBFCT-ND◆	2.80	2.50	2.25	705.00
	Fixed Frequency Oscillator	20/40/80MHz	11mA @ 80MHz	LTC6905CS5-80#TRMPBFCT-ND◆	2.80	2.50	2.25	705.00
	Fixed Frequency Oscillator	24/48/96MHz	12mA @ 96MHz	LTC6905CS5-96#TRMCT-ND	2.80	2.50	2.25	—
	Fixed Frequency Oscillator	24/48/96MHz	12mA @ 96MHz	LTC6905CS5-96#TRMPBFCT-ND◆	2.80	2.50	2.25	705.00
	Resistor Programmable Oscillator	17MHz ~ 170MHz	5mA @ 21MHz	LTC6905CS5#TRMPBFCT-ND◆	3.95	3.53	3.18	1010.00
2	Resistor Programmable with SS	5kHz ~ 20MHz	1.8mA @ 10MHz	LTC6902CMS#PBF-ND◆‡	4.40	2.93	2.40	—
3	SPI Programmable Oscillator	1kHz ~ 68MHz	3.1mA @ 1MHz	LTC6903CMS8#PBF-ND◆‡	3.90	2.59	2.20	—
	I²C Programmable Oscillator	1kHz ~ 68MHz	3.1mA @ 1MHz	LTC6904CMS8#PBF-ND◆‡	4.20	2.79	2.35	—
	Precision µPower Oscillator	32.768kHz ~ 4.194MHz	420µA @ 4.19MHz	LTC6930CMS8-4.19#PBF-ND◆◊	2.65	1.76	1.46	—
	Precision µPower Oscillator	32.768kHz ~ 4.194MHz	420µA @ 4.19MHz	LTC6930IMS8-4.19#PBF-ND◆◊	3.20	2.13	1.75	—
	Precision µPower Oscillator	39.063kHz ~ 5.000MHz	570µA @ 5MHz	LTC6930CMS8-5.00#PBF-ND◆◊	2.65	1.76	1.46	—
	Precision µPower Oscillator	39.063kHz ~ 5.000MHz	570µA @ 5MHz	LTC6930IMS8-5.00#PBF-ND◆◊	3.20	2.13	1.75	—
	Precision µPower Oscillator	57.600kHz ~ 7.373MHz	660µA @ 7.37MHz	LTC6930CMS8-7.37#PBF-ND◆◊	2.65	1.76	1.46	—
	Precision µPower Oscillator	57.600kHz ~ 7.373MHz	660µA @ 7.37MHz	LTC6930IMS8-7.37#PBF-ND◆◊	3.20	2.13	1.75	—
	Precision µPower Oscillator	62.500kHz ~ 8.000MHz	740µA @ 8.000MHz	LTC6930CMS8-8.00#PBF-ND◆◊	2.65	1.76	1.46	—
	Precision µPower Oscillator	62.500kHz ~ 8.000MHz	740µA @ 8.000MHz	LTC6930IMS8-8.00#PBF-ND◆◊	3.20	2.13	1.75	—
	Precision µPower Oscillator	64.000kHz ~ 8.192MHz	760µA @ 8.19MHz	LTC6930CMS8-8.19#PBF-ND◆◊	2.65	1.76	1.46	—
4	Precision µPower Oscillator	32.768kHz ~ 4.194MHz	420µA @ 4.19MHz	LTC6930CDCB-4.19#TRMPBFCT-ND◆	3.22	2.88	2.59	—
	Precision µPower Oscillator	32.768kHz ~ 4.194MHz	420µA @ 4.19MHz	LTC6930IDCB-4.19#TRMPBFCT-ND◆	3.84	3.43	3.09	905.00
	Precision µPower Oscillator	39.063kHz ~ 5.000MHz	570µA @ 5MHz	LTC6930CDCB-5.00#TRMPBFCT-ND◆	3.22	2.88	2.59	—
	Precision µPower Oscillator	39.063kHz ~ 5.000MHz	570µA @ 5MHz	LTC6930IDCB-5.00#TRMPBFCT-ND◆	3.84	3.43	3.09	—
	Precision µPower Oscillator	57.600kHz ~ 7.373MHz	660µA @ 7.37MHz	LTC6930CDCB-7.37#TRMPBFCT-ND◆	3.22	2.88	2.59	760.00
	Precision µPower Oscillator	57.600kHz ~ 7.373MHz	660µA @ 7.37MHz	LTC6930IDCB-7.37#TRMPBFCT-ND◆	3.84	3.43	3.09	905.00
	Precision µPower Oscillator	62.500kHz ~ 8.000MHz	740µA @ 8.000MHz	LTC6930CDCB-8.00#TRMPBFCT-ND◆	3.22	2.88	2.59	—
	Precision µPower Oscillator	62.500kHz ~ 8.000MHz	740µA @ 8.000MHz	LTC6930IDCB-8.00#TRMPBFCT-ND◆	3.84	3.43	3.09	—
	Precision µPower Oscillator	64.000kHz ~ 8.192MHz	760µA @ 8.19MHz	LTC6930CDCB-8.19#TRMPBFCT-ND◆	3.22	2.88	2.59	—
	Precision µPower Oscillator	64.000kHz ~ 8.192MHz	760µA @ 8.19MHz	LTC6930IDCB-8.19#TRMPBFCT-ND◆	3.84	3.43	3.09	905.00
5	Resistor Programmable Oscillator	10kHz ~ 1MHz	15µA @ 100kHz	LTC6906CS6#TRMPBFCT-ND◆	3.02	2.70	2.43	765.00
	Resistor Programmable Oscillator	40kHz ~ 4MHz	48µA @ 400kHz	LTC6907CS6#TRMPBFCT-ND◆	3.02	2.70	2.43	765.00
6	Resistor Programmable Oscillator	12.5kHz ~ 6.67MHz	37µA @ 12.5kHz	LTC6909CMS#PBF-ND◆◊ ***NEW!***	5.23	3.47	2.87	—
	Resistor Programmable Oscillator	12.5kHz ~ 6.67MHz	37µA @ 12.5kHz	LTC6909IMS#PBF-ND◆◊ ***NEW!***	6.28	4.17	3.44	—

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk ◊ Tube

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

FOXElectronics

Tuning Fork Crystals

Specifications:
• Frequency Tolerance: ±20ppm • Load Capacitance: 12.5pF • Insulation Resistance (Min.): 500MΩ • Drive Level: 1μW
• Operating Temperature: FSM, FSRLF, FSXLF and FX135 Series: -40°C ~ 85°C (NCLF Series: -20°C ~ 60°C)

Fig. 1 ***NEW!***

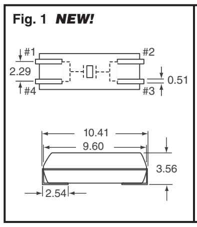

Fig. 2

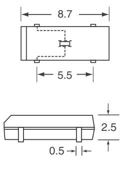

Fig. 3

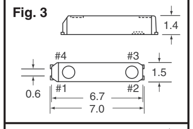

Fig. 4

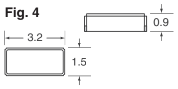

Fig. 5 ***NEW!***

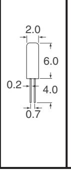

Fig. 6 ***NEW!***

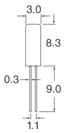

Frequency (kHz)	ESR (kΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Fox Electronics Part No.
NEW! Fig. 1 — FSMLF Series NEW!									
32.768	50	631-1206-1-ND	1.71	1.49	1.31	631-1206-2-ND	2,000	639.80/M	FSMLF327
Fig. 2 — FSRLF Series									
32.768	50	631-1000-1-ND	1.11	.96	.85	631-1000-2-ND	3,000	398.25/M	FSRLF327
Fig. 3 — FSXLF Series									
32.768	65	631-1001-1-ND	1.24	1.08	.95	631-1001-2-ND	3,000	445.50/M	FSXLF327
Fig. 4 — FX135 Series									
32.768	70	631-1002-1-ND	2.21	1.92	1.69	631-1002-2-ND	3,000	796.50/M	FX135A-327
NEW! Fig. 5 — NC26LF Series NEW!									
32.768	50	631-1205-ND†	.48	.42	.35	—	—	—	NC26LF-327
NEW! Fig. 6 — NC38LF Series NEW!									
32.768	35	631-1204-ND†	.48	.42	.35	—	—	—	NC38LF-327

† Bulk

HC49SDLF Series SMD Crystals

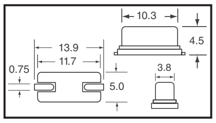

Specifications:
• Frequency Tolerance: ±50ppm • Drive Level: 0.5mW • Shunt Capacitance: 7pF
• Storage Temperature: -40°C ~ 85°C • Operating Temperature: -20°C ~ 70°C

Load Capaci-tance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
12.0pF	4.194304	631-1006-1-ND	.62	.54	.48	631-1006-2-ND	231.00	FOXSDLF/041
18.0pF	3.579545	631-1003-1-ND	.62	.54	.48	631-1003-2-ND	231.00	FOXSDLF/036S
20.0pF	3.686400	631-1004-1-ND	.62	.54	.48	631-1004-2-ND	231.00	FOXSDLF/0368-20
	4.000000	631-1005-1-ND	.62	.54	.48	631-1005-2-ND	231.00	FOXSDLF/040
	4.915200	631-1007-1-ND	.62	.54	.48	631-1007-2-ND	231.00	FOXSDLF/049-20
	6.000000	631-1008-1-ND	.62	.54	.48	631-1008-2-ND	231.00	FOXSDLF/060-20
	7.372800	631-1009-1-ND	.62	.54	.48	631-1009-2-ND	231.00	FOXSDLF/073-20
	8.000000	631-1010-1-ND	.62	.54	.48	631-1010-2-ND	231.00	FOXSDLF/080-20
	10.000000	631-1011-1-ND	.62	.54	.48	631-1011-2-ND	231.00	FOXSDLF/100-20
	11.059200	631-1012-1-ND	.62	.54	.48	631-1012-2-ND	231.00	FOXSDLF/115-20
	12.000000	631-1013-1-ND	.62	.54	.48	631-1013-2-ND	231.00	FOXSDLF/120-20
	12.288000	631-1014-1-ND	.45	.39	.33	—	—	FOXSDLF/128-20
	14.318180	631-1015-1-ND	.62	.54	.48	631-1015-2-ND	231.00	FOXSDLF/143-20
	14.745600	631-1016-1-ND	.62	.54	.48	631-1016-2-ND	231.00	FOXSDLF/147-20
	16.000000	631-1017-1-ND	.62	.54	.48	631-1017-2-ND	231.00	FOXSDLF/160-20
	18.432000	631-1209-1-ND✔	.62	.54	.48	631-1209-2-ND✔	231.00	FOXSDLF/184-20
	20.000000	631-1018-1-ND	.62	.54	.48	631-1018-2-ND	231.00	FOXSDLF/200-20
	22.118400	631-1019-1-ND	.62	.54	.48	631-1019-2-ND	231.00	FOXSDLF/221-20
	24.000000	631-1020-1-ND	.62	.54	.48	631-1020-2-ND	231.00	FOXSDLF/240F-20
	24.576000	631-1021-1-ND	.62	.54	.48	631-1021-2-ND	231.00	FOXSDLF/245F-20
	25.000000	631-1022-1-ND	.62	.54	.48	631-1022-2-ND	231.00	FOXSDLF/250F-20

✔ ***NEW!***

FQ Series All Quartz SMD Crystals

Specifications: • Frequency Tolerance: ±30ppm • Drive Level: 0.5mW • Shunt Capacitance: 7pF • Load Capacitance: 20.0pF • Operating Temperature: 0°C ~ 70°C

Fig. 1

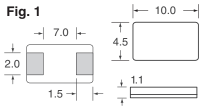

Fig. 2

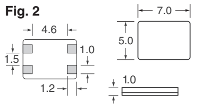

Fig. 3

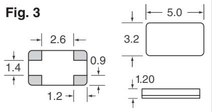

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T&R Pricing 1,000	Fox Electronics Part No.
Fig. 1 — FQ1045A Series							
3.6864	631-1032-1-ND	2.03	1.76	1.54	631-1032-2-ND	756.00	FQ1045A-3.6864
4.0000	631-1033-1-ND	2.03	1.76	1.54	631-1033-2-ND	756.00	FQ1045A-4.000
6.0000	631-1035-1-ND	1.88	1.63	1.43	631-1035-2-ND	700.00	FQ1045A-6.000
Fig. 2 — FQ7050B Series							
7.3728	631-1028-1-ND	1.31	1.14	1.00	631-1028-2-ND	490.00	FQ7050B-7.3728
8.0000	631-1029-1-ND	1.31	1.14	1.00	631-1029-2-ND	490.00	FQ7050B-8.000
10.0000	631-1030-1-ND	1.31	1.14	1.00	631-1030-2-ND	490.00	FQ7050B-10.000
11.0592	631-1031-1-ND	1.31	1.14	1.00	631-1031-2-ND	490.00	FQ7050B-11.0592
Fig. 3 — FQ5032B Series							
12.0000	631-1023-1-ND	1.46	1.27	1.12	631-1023-2-ND	546.00	FQ5032B-12.000
16.0000	631-1024-1-ND	1.46	1.27	1.12	631-1024-2-ND	546.00	FQ5032B-16.000
20.0000	631-1025-1-ND	1.46	1.27	1.12	631-1025-2-ND	546.00	FQ5032B-20.000
24.0000	631-1026-1-ND	1.46	1.27	1.12	631-1026-2-ND	546.00	FQ5032B-24.000
24.5760	631-1027-1-ND	1.46	1.27	1.12	631-1027-2-ND	546.00	FQ5032B-24.576
25.0000	631-1207-1-ND ***NEW!***	1.46	1.27	1.12	631-1207-2-ND ***NEW!***	546.00	FQ5032B-25.000

Ceramic SMD Crystals

Specifications: • Frequency Tolerance: ±50ppm • Load Capacitance: 20.0pF • Operating Temperature: FX252B, FX425B and FX532B Series: -10°C ~ 60°C (FPXLF Series: -10°C ~ 70°C)

Fig. 1

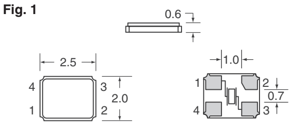

Fig. 2

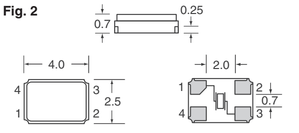

Fig. 3

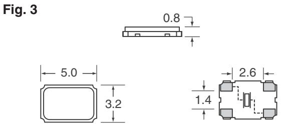

Fig. 4 ***NEW!***

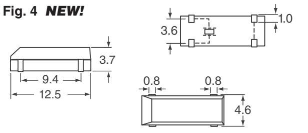

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
Fig. 1 — FX252B Series							
16.0000	631-1036-1-ND	6.19	5.37	4.71	631-1036-2-ND	2310.00	FX252BS-16.000
24.0000	631-1038-1-ND	6.19	5.37	4.71	631-1038-2-ND	2310.00	FX252BS-24.000
Fig. 2 — FX425B Series							
12.0000	631-1039-1-ND	2.85	2.47	2.17	631-1039-2-ND	1064.00	FX425B-12.000
Fig. 3 — FX532B Series							
10.0000	631-1044-1-ND	4.40	3.76	3.20	—	—	FX532B-10
12.0000	631-1046-1-ND	4.40	3.76	3.20	—	—	FX532B-12
24.0000	631-1049-1-ND	4.40	3.76	3.20	—	—	FX532B-24
NEW! Fig. 4 — FPXLF Series NEW!							
3.6864	631-1208-1-ND	1.39	1.21	1.06	631-1208-2-ND	518.00	FPXLF0368-20

Thru-Hole Crystals

Specifications:
• Shunt Capacitance: 7pF • Storage Temperature: -40°C ~ 85°C • Operating Temperature: -20°C ~ 70°C

Fig. 1

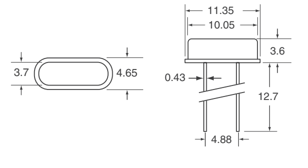

Fig. 2

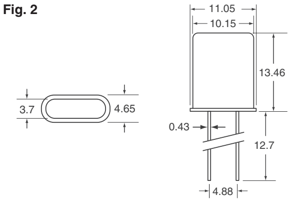

Fig.	Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Fox Electronics Part No.
HC49SLF – FOXSLF							
1	Series	3.686400	631-1094-ND	.53	.45	.38	FOXSLF/0368S
	Series	4.000000	631-1096-ND	.53	.45	.38	FOXSLF/040A
	Series	8.000000	631-1099-ND	.53	.45	.38	FOXSLF/080
	Series	11.059200	631-1102-ND	.53	.45	.38	FOXSLF/115
	Series	12.000000	631-1104-ND	.53	.45	.38	FOXSLF/120
	Series	16.000000	631-1107-ND	.53	.45	.38	FOXSLF/160
	Series	20.000000	631-1110-ND	.53	.45	.38	FOXSLF/200
	18.0pF	3.579545	631-1093-ND	.53	.45	.38	FOXSLF/036S
	20.0pF	3.686400	631-1095-ND	.53	.45	.38	FOXSLF/0368-20
	20.0pF	4.000000	631-1097-ND	.53	.45	.38	FOXSLF/040
	20.0pF	7.372800	631-1098-ND	.53	.45	.38	FOXSLF/073-20
	20.0pF	8.000000	631-1100-ND	.53	.45	.38	FOXSLF/080-20
	20.0pF	10.000000	631-1101-ND	.53	.45	.38	FOXSLF/100-20
	20.0pF	11.059200	631-1103-ND	.53	.45	.38	FOXSLF/115-20
	20.0pF	12.000000	631-1105-ND	.53	.45	.38	FOXSLF/120-20
	20.0pF	12.288000	631-1214-ND ***NEW!***	.53	.45	.38	FOXSLF/128-20
	20.0pF	14.318180	631-1213-ND ***NEW!***	.53	.45	.38	FOXSLF/143-20
	20.0pF	14.745600	631-1106-ND	.53	.45	.38	FOXSLF/147-20
	20.0pF	16.000000	631-1108-ND	.53	.45	.38	FOXSLF/160-20
	20.0pF	18.432000	631-1109-ND	.53	.45	.38	FOXSLF/184-20
	20.0pF	20.000000	631-1111-ND	.53	.45	.38	FOXSLF/200-20
	20.0pF	22.118400	631-1212-ND ***NEW!***	.53	.45	.38	FOXSLF/221-20
	20.0pF	24.000000	631-1211-ND ***NEW!***	.53	.45	.38	FOXSLF/240F-20
	20.0pF	24.576000	631-1210-ND ***NEW!***	.53	.45	.38	FOXSLF/245F-20
	20.0pF	25.000000	631-1112-ND	.53	.45	.38	FOXSLF/250F-20
HC49ULF – FOXLF							
2	Series	3.686400	631-1079-ND	.49	.42	.35	FOXLF0368S
	Series	4.000000	631-1082-ND	.49	.42	.35	FOXLF040A
	Series	11.059200	631-1085-ND	.49	.42	.35	FOXLF115
	Series	12.000000	631-1087-ND	.49	.42	.35	FOXLF120
	Series	16.000000	631-1089-ND	.49	.42	.35	FOXLF160
	13.0pF	1.843200	631-1076-ND	1.51	1.29	1.08	FOXLF018S
	18.0pF	3.579545	631-1078-ND	.49	.42	.35	FOXLF036S
	20.0pF	3.686400	631-1080-ND	.49	.42	.35	FOXLF0368-20
	20.0pF	4.000000	631-1081-ND	.49	.42	.35	FOXLF040
	20.0pF	8.000000	631-1083-ND	.49	.42	.35	FOXLF080-20
	20.0pF	10.000000	631-1084-ND	.49	.42	.35	FOXLF100-20
	20.0pF	11.059200	631-1086-ND	.49	.42	.35	FOXLF115-20
	20.0pF	12.000000	631-1088-ND	.49	.42	.35	FOXLF120-20
	20.0pF	16.000000	631-1090-ND	.49	.42	.35	FOXLF160-20
	20.0pF	20.000000	631-1091-ND	.49	.42	.35	FOXLF200-20
	20.0pF	25.000000	631-1092-ND	.49	.42	.35	FOXLF250F-20
	32.0pF	2.457600	631-1077-ND	1.51	1.29	1.08	FOXLF024S

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FOXElectronics XPRESSO™ SMD Oscillators

SPECIFICATIONS		FXO-HC536R FXO-HC736R	FXO-HC735	FXO-PC735	FXO-PC736	FXO-LC535 FXO-LC735	FXO-LC536
Supply Voltage:		3.3V ±5%					
Output Type:		HCMOS		LVPECL		LVDS	
Frequency Stability:		±25ppm	±50ppm		±25ppm	±50ppm	±25ppm
Storage Temperature:		-55°C ~ 125°C					
Output Symmetry:		45% ~ 55%					
Startup Time:		10mS					
Output Voltage:	**VOH:**	90% VDD minimum		2.055V ~ 2.405V		—	—
	VOL:	10% VDD		1.35V ~ 1.65V		—	—
Output Load Condition (typical):		15pF maximum		50Ω into VDD-2VDC typical		100Ω typical	
Rise/Fall Time:		3nS		400pS			
Output Enable/ Disable Time:		100nS					

Fig. 1

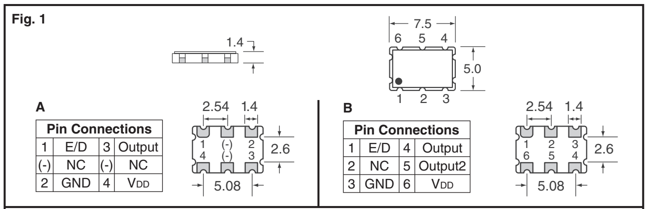

A

Pin Connections			
1	E/D	3	Output
(-)	NC	(-)	NC
2	GND	4	VDD

B

Pin Connections			
1	E/D	4	Output
2	NC	5	Output2
3	GND	6	VDD

Fig. 2

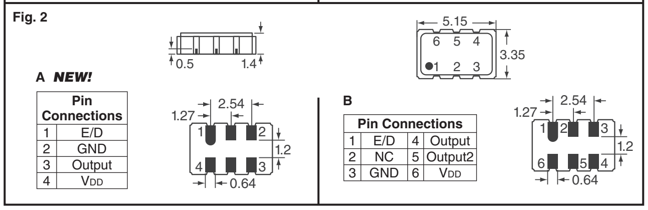

A **NEW!**

Pin Connections	
1	E/D
2	GND
3	Output
4	VDD

B

Pin Connections			
1	E/D	4	Output
2	NC	5	Output2
3	GND	6	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Tape & Reel† Pricing 1,000	Fox Electronics Part No.
Fig. 1A — FXO-HC735 HCMOS ±50ppm (-20°C ~ 70°C) 3.3V Oscillators							
1.00000	631-1122-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-1MHZ
1.54400	631-1123-1-ND	1.32	1.13	.96	.89	—	FXO-HC735-1.544MHZ
1.84320	631-1051-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-1.8432MHZ
2.04800	631-1124-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-2.048MHZ
4.00000	631-1115-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-4MHZ
8.00000	631-1125-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-8MHZ
12.00000	631-1116-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-12MHZ
12.28800	631-1117-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-12.288MHZ
14.31818	631-1118-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-14.31818MHZ
16.00000	631-1053-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-16MHZ
16.38400	631-1127-1-ND	1.32	1.13	.96	.89	—	FXO-HC735-16.384MHZ
18.43200	631-1119-1-ND	1.32	1.13	.96	.89	—	FXO-HC735-18.432MHZ
20.00000	631-1054-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-20MHZ
24.00000	631-1128-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-24MHZ
24.57600	631-1120-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-24.576MHZ
25.00000	631-1055-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-25MHZ
28.63636	631-1129-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-28.63636MHZ
33.00000	631-1130-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-33MHZ
33.33300	631-1057-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-33.333MHZ
40.00000	631-1058-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-40MHZ
48.00000	631-1059-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-48MHZ
50.00000	631-1060-1-ND	1.80	1.56	1.37	1.08	672.00	FXO-HC735-50MHZ
62.50000	631-1131-1-ND	1.88	1.63	1.43	1.13	700.00	FXO-HC735-62.5MHZ
66.66600	631-1132-1-ND	1.88	1.63	1.43	1.13	700.00	FXO-HC735-66.666MHZ
75.00000	631-1133-1-ND	1.95	1.69	1.49	1.17	728.00	FXO-HC735-75MHZ
80.00000	631-1135-1-ND	2.06	1.79	1.57	1.24	770.00	FXO-HC735-80.000MHZ
100.00000	631-1136-1-ND	2.74	2.38	2.09	1.65	1022.00	FXO-HC735-100MHZ
106.25000	631-1137-1-ND	2.01	1.72	1.46	1.36	—	FXO-HC735-106.250MHZ
125.00000	631-1138-1-ND	3.15	2.73	2.40	1.89	1176.00	FXO-HC735-125MHZ
NEW! Fig. 1A — FXO-HC735RGB HCMOS ±50ppm (-40°C ~ 85°C) 3.3V Gigabit Ethernet Oscillators NEW!							
125.00000	631-1221-1-ND	3.45	2.99	2.63	2.07	1288.00	FXO-HC735RGB-125
156.25000	631-1222-1-ND§	5.40	4.68	4.11	3.24	2016.00	FXO-HC735RGB-156.25
NEW! Fig. 1B — FXO-PC735RGB LVPECL ±50ppm (-40°C ~ 85°C) 3.3V Gigabit Ethernet Oscillators NEW!							
125.00000	631-1215-1-ND	15.15	13.13	11.52	9.09	5656.00	FXO-PC735RGB-125
156.25000	631-1216-1-ND	15.15	13.13	11.52	9.09	5656.00	FXO-PC735RGB-156.25
321.50000	631-1217-1-ND	16.58	14.37	12.60	9.95	6188.00	FXO-PC735RGB-312.50
Fig. 1B — FXO-PC736 LVPECL ±25ppm (-20°C ~ 70°C) 3.3V Oscillator							
1.0000GHz	631-1143-ND‡	51.59	44.09	37.52	34.71	—	FXO-PC736-1000MHZ
NEW! Fig. 1B — FXO-LC735RGB LVDS ±50ppm (-40°C ~ 85°C) 3.3V Gigabit Ethernet Oscillators NEW!							
125.00000	631-1218-1-ND	15.15	13.13	11.52	9.09	5656.00	FXO-LC735RGB-125
156.25000	631-1219-1-ND	15.15	13.13	11.52	9.09	5656.00	FXO-LC735RGB-156.25
312.50000	631-1220-1-ND	16.58	14.37	12.60	9.95	6188.00	FXO-LC735RGB-312.50
NEW! Fig. 2A — FXO-HC536R HCMOS ±25ppm (-40°C ~ 85°C) 3.3V Oscillators NEW!							
1.84320	631-1144-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-1.8432
3.68640	631-1158-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-3.6864
4.00000	631-1163-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-4
8.00000	631-1171-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-8
10.00000	631-1145-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-10
12.00000	631-1147-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-12
14.31818	631-1149-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-14.31818
16.00000	631-1150-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-16
16.38400	631-1151-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-16.384
20.00000	631-1152-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-20
24.00000	631-1154-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-24
24.57600	631-1155-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-24.576
25.00000	631-1156-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-25
27.00000	631-1157-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-27
30.00000	631-1159-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-30
32.00000	631-1160-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-32
33.00000	631-1161-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-33
33.33300	631-1162-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-33.333
40.00000	631-1164-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-40
48.00000	631-1165-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-48
50.00000	631-1166-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC536R-50
60.00000	631-1167-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC536R-60
62.50000	631-1168-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC536R-62.5
66.00000	631-1169-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC536R-66
75.00000	631-1170-1-ND	2.66	2.31	2.03	1.60	994.00	FXO-HC536R-75
80.00000	631-1173-1-ND	2.66	2.31	2.03	1.60	994.00	FXO-HC536R-80
100.00000	631-1146-1-ND	3.49	3.03	2.66	2.10	1302.00	FXO-HC536R-100
125.00000	631-1148-1-ND	3.68	3.19	2.80	2.21	1372.00	FXO-HC536R-125
200.00000	631-1153-1-ND	8.29	7.19	6.30	4.98	3094.00	FXO-HC536R-200
NEW! Fig. 2A — FXO-HC736R HCMOS ±25ppm (-40°C ~ 85°C) 3.3V Oscillators NEW!							
1.84320	631-1174-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-1.8432
2.04800	631-1182-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-2.048
3.68640	631-1189-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-3.6864
4.00000	631-1194-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-4
10.00000	631-1175-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-10
12.00000	631-1177-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-12
14.31818	631-1179-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-14.31818
16.00000	631-1180-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-16
16.38400	631-1181-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-16.384
20.00000	631-1183-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-20
24.00000	631-1185-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-24
24.57600	631-1186-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-24.576
25.00000	631-1187-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-25
27.00000	631-1188-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-27
30.00000	631-1190-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-30
32.00000	631-1191-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-32
33.00000	631-1192-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-33
33.33300	631-1193-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-33.333
40.00000	631-1195-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-40
48.00000	631-1196-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-48
50.00000	631-1197-1-ND	2.40	2.08	1.83	1.44	896.00	FXO-HC736R-50
60.00000	631-1198-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC736R-60
62.50000	631-1199-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC736R-62.5
66.00000	631-1200-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC736R-66
66.66600	631-1202-1-ND	2.51	2.18	1.91	1.51	938.00	FXO-HC736R-66.666
75.00000	631-1203-1-ND	2.66	2.31	2.03	1.60	994.00	FXO-HC736R-75
100.00000	631-1176-1-ND	3.68	3.19	2.80	2.21	1372.00	FXO-HC736R-100
125.00000	631-1178-1-ND	3.68	3.19	2.80	2.21	1372.00	FXO-HC736R-125
200.00000	631-1184-1-ND	8.29	7.19	6.30	4.98	3094.00	FXO-HC736R-200
Fig. 2B — FXO-LC535 LVDS ±50ppm (-20°C ~ 70°C) 3.3V Oscillator							
212.50000	631-1141-ND‡	33.11	28.30	24.08	22.28	—	FXO-LC535-212.5MHZ
Fig. 2B — FXO-LC536 LVDS ±25ppm (-20°C ~ 70°C) 3.3V Oscillator							
312.50000	631-1142-ND‡	27.36	23.39	19.90	18.41	—	FXO-LC536-312.5MHZ

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Tube § Output Voltage: VOH 80 % VDD minimum and VOL 10% VDD

FOX914B and FOX924B Series SMD TCXO's

Specifications	FOX914B	FOX924B
Supply Voltage:	3.0V ±5%	3.3V ±5%
Frequency Tolerance:	±1ppm	±1.5ppm
Input Current:	2mA	5mA
Output Load:	10pF	15pF
Operating Temperature:	-20°C ~ 75°C	-30°C ~ 85°C
Storage Temperature:	-40°C ~ 85°C	

Fig. 1

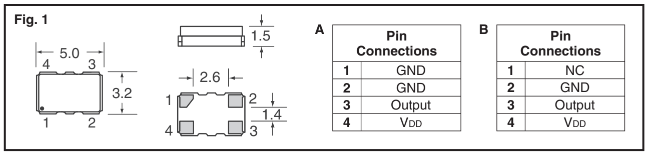

A

Pin Connections	
1	GND
2	GND
3	Output
4	VDD

B

Pin Connections	
1	NC
2	GND
3	Output
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
Fig. 1A — FOX914B Series — 3.0V ±5%							
12.8000	631-1062-1-ND	6.41	5.56	4.88	631-1062-2-ND	2394.00	FOX914B-12.800
19.2000	631-1063-1-ND	6.66	5.69	4.84	—	—	FOX914B-19.2
19.4400	631-1064-1-ND	6.00	5.13	4.36	—	—	FOX914B-19.44
20.0000	631-1065-1-ND	6.41	5.56	4.88	631-1065-2-ND	2394.00	FOX914B-20.000
Fig. 1B — FOX924B Series — 3.3V ±5%; HCMOS							
10.0000	631-1067-1-ND	6.41	5.56	4.88	631-1067-2-ND	2394.00	FOX924B-10.000
12.0000	631-1068-1-ND	6.41	5.56	4.88	631-1068-2-ND	2394.00	FOX924B-12.000
12.2880	631-1069-1-ND	6.41	5.56	4.88	631-1069-2-ND	2394.00	FOX924B-12.288
14.7456	631-1070-1-ND	6.41	5.56	4.88	631-1070-2-ND	2394.00	FOX924B-14.7456
16.0000	631-1071-1-ND	6.41	5.56	4.88	631-1071-2-ND	2394.00	FOX924B-16.000
19.4400	631-1072-1-ND	6.41	5.56	4.88	631-1072-2-ND	2394.00	FOX924B-19.44
20.0000	631-1073-1-ND	6.41	5.56	4.88	631-1073-2-ND	2394.00	FOX924B-20.000
25.0000	631-1074-1-ND	6.41	5.56	4.88	631-1074-2-ND	2394.00	FOX924B-25.000
27.0000	631-1075-1-ND	6.41	5.56	4.88	631-1075-2-ND	2394.00	FOX924B-27.000

CRYSTEK CORPORATION

High Performance Clock Oscillators

Dim. in mm

Fig. 1

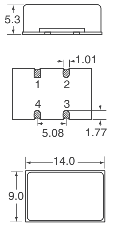

Pad	Connection
1	N/C
2	GND
3	OUT
4	Vdd

Fig. 2

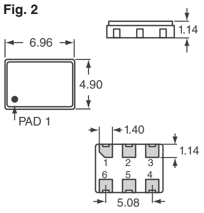

Pad	Connection
1	E/D
2	N/C
3	GND
4	OUT
5	COUT
6	Vcc

Fig. 3

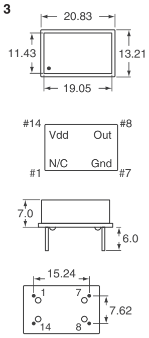

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	T & R Pricing 1,000‡	Crystek Corporation Part No.
CCHD-950 Series —162dBc/Hz Phase Noise Floor CMOS — 3.3V							
1	80.0000	744-1055-ND†	28.24	26.83	25.42	—	CCHD-950-50-80.000
	100.0000	744-1054-ND†	30.54	29.01	27.49	—	CCHD-950-50-100.000
CCPD-033 and CCPD-034 Series — Differential LVPECL — 3.3V							
2	77.7600	744-1036-1-ND	10.47	9.05	8.57	6284.00	CCPD-033-50-77.760
	100.0000	744-1030-1-ND	10.98	9.48	8.98	6591.00	CCPD-033-50-100.000
	106.2500	744-1031-1-ND	10.98	9.48	8.98	6591.00	CCPD-033-50-106.250
	125.0000	744-1032-1-ND	11.35	9.80	9.30	6816.00	CCPD-033-50-125.000
	155.5200	744-1033-1-ND	13.53	11.69	11.07	8118.00	CCPD-033-50-155.520
	156.2500	744-1034-1-ND	13.53	11.69	11.07	8118.00	CCPD-033-50-156.250
	161.1328	744-1035-1-ND	15.48	13.38	12.68	9297.00	CCPD-033-50-161.1328
	200.0000	744-1041-ND†	20.30	17.54	16.62	—	CCPD-034-50-200.000
	212.5000	744-1042-ND†	20.30	17.54	16.62	—	CCPD-034-50-212.500
	250.0000	744-1043-ND†	31.46	27.17	25.75	—	CCPD-034-50-250.000
	311.0400	744-1044-ND†	53.17	45.92	43.51	—	CCPD-034-50-311.040
	312.5000	744-1253-ND†	71.54	54.27	44.41	—	CCPD-034-50-312.500
CCLD-033 Series — Differential LVDS — 3.3V							
2	100.0000	744-1037-1-ND	11.22	9.69	9.18	6730.00	CCLD-033-50-100.000
	125.0000	744-1038-1-ND	11.84	10.23	9.69	7100.00	CCLD-033-50-125.000
	133.0000	744-1039-1-ND	12.17	10.51	9.95	7300.00	CCLD-033-50-133.000
	156.2500	744-1040-1-ND	13.35	11.53	10.93	8010.00	CCLD-033-50-156.250
CCO-083 Series — True SineWave — 3.3V							
3	100.0000	744-1045-5-ND†	62.13	61.72	61.09	—	CCO-083-100.000
	200.0000	744-1046-5-ND†	68.55	68.09	67.41	—	CCO-083-200.000

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.
Note: *For additional specifications please see the manufacturer's data sheets.*

High Performance, Low Phase Noise VCXOs, VCSOs and TCXOs

Dim. in mm

Fig. 1

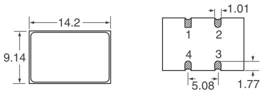

A.

Pad	Connection
1	NC or Volt Control
2	GND
3	OUT
4	Vdd

B.

Pad	Connection
1	Volt Control
2	GND
3	OUT
4	Vdd

C.

Pad	Connection
1	NC
2	GND
3	OUT
4	Vdd

Fig. 2

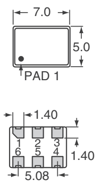

Pad	Connection
1	Volt Control
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Fig. 3

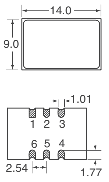

Pad	Connection
1	Volt Control
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Fig. 4

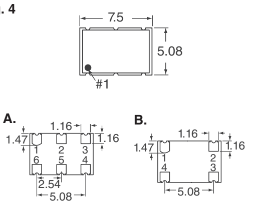

Pad	Connection
1	Volt Control
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Pad	Connection
1	Volt Control
2	GND
3	Output
4	Vdd

Fig. 5

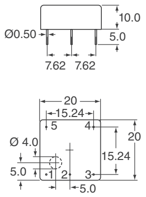

Pad	Connection
1	NC
2	RF Output
3	Supply Voltage
4	Case Ground
5	Case Ground

Fig. 6 ***NEW!***

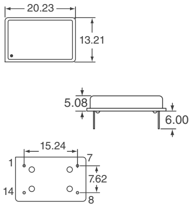

Pad	Connection
1	NC
7	GND
8	Output
14	Vdd

Fig.	Frequency (MHz)	Input Voltage	Output Type	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
CVHD-950 Series -162dBc/Hz Phase Noise Floor VCXO								
1A	54.0000	3.3V	CMOS	744-1217-ND	26.80	25.46	24.12	CVHD-950-54.000
	74.1758	3.3V	CMOS	744-1216-ND	27.40	26.03	24.66	CVHD-950-74.175800
	74.2500	3.3V	CMOS	744-1215-ND	27.40	26.03	24.66	CVHD-950-74.250
	80.0000	3.3V	CMOS	744-1214-ND	27.70	26.32	24.93	CVHD-950-80.000
	100.0000	3.3V	CMOS	744-1213-ND	27.70	26.32	24.93	CVHD-950-100.000
	122.8800	3.3V	CMOS	744-1271-ND	50.30	47.79	47.79	CVHD-950-122.880
	125.0000	3.3V	CMOS	744-1272-ND	50.30	47.79	45.27	CVHD-950-125.000
CVCSO-914 Series High Frequency SAW SineWave VCSO								
1B	1.0000GHz	5.0V	SineWave	744-1051-ND	116.66	110.83	104.99	CVCSO-914-1000
CCSO-914X Series Ultra-Low Phase Noise SAW Oscillators								
1C	1.0000GHz	3.3V	SineWave	744-1291-ND	56.66	53.83	51.00	CCSO-914X3-1000
	1.0000GHz	5.0V	SineWave	744-1254-ND	56.66	53.83	51.00	CCSO-914X-1000.000

Fig.	Frequency (MHz)	Input Voltage	Output Type	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
CVPD-034, CVPD-940, CVPD-970 Series Differential VCXO								
2	155.5200	3.3V	LVPECL	744-1219-ND	41.71	37.92	36.02	CVPD-034-50-155.52
	156.2500	3.3V	LVPECL	744-1220-ND	41.71	37.92	36.02	CVPD-034-50-156.25
3	622.0800	3.3V	LVPECL	744-1224-ND	78.24	74.33	70.42	CVPD-970X-622.080
CVS575 Series Voltage Controlled SAW Oscillators								
4A	500.0000	3.3V	LVPECL	744-1053-ND	64.46	61.24	58.01	CVS575-500.000
	622.0800	3.3V	LVPECL	744-1052-ND	64.46	61.24	58.01	CVS575-622.080
4B	500.0000	3.3V	SineWave	744-1290-ND	64.46	61.24	58.01	CVS575S-500.000
CXOH20 Series TCXO								
5	10.0000	5.0V	CMOS	744-1050-ND	46.16	44.62	43.08	CXOH20-BP-10.000
NEW!* CCSO-014 Series SAW SineWave Oscillator *NEW!								
6	1.0900GHz	12.0V	SineWave	744-1328-ND	103.54	100.57	99.08	CCSO-014-1090.000

Note: *For additional specifications please see the manufacturer's data sheets.*

Chipset Crystals and Oscillators

For data sheets, please visit Crystek Corporation's website to register for release of documents.

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	T & R◊ Pricing 1,000	Crystek Corp. Part No.	Compatible Chipsets and Applications
Crystals							
4.746870	744-1001-1-ND	1.48	1.41	1.30	520.00	016867	Maxim: Max1470/1473
5.223438	744-1007-1-ND	1.68	1.60	1.47	590.00	016991	Maxim: MAX1470/1473, 345MHz, -40°C ~ 85°C
6.612813	744-1002-1-ND	1.48	1.41	1.30	520.00	016868	Maxim: Max1470/1473
6.764380	744-1021-1-ND	1.48	1.41	1.30	520.00	017128	Atmel: U3741, T5743, T5744, 433.92MHz, 0°C ~ 70°C, 3mm
9.509375	744-1011-1-ND	1.76	1.67	1.54	620.00	017034	Maxim: MAX1471, 315MHz, -40°C ~ 85°C
9.843750	744-1017-1-ND	1.68	1.60	1.47	—	017113	Atmel: T5753, 315MHz, -40°C ~ 85°C, 5mm
9.843750	744-1009-1-ND	1.76	1.67	1.54	620.00	017000	Maxim: MAX1472, 315MHz, -40°C ~ 85°C
9.843750	744-1003-1-ND	1.28	1.22	1.12	450.00	016875	Microchip: rfPIC12C509AG/509AF, rfHCS362G/362F, rfPIC12F675K
13.06250	744-1004-1-ND	1.28	1.22	1.12	450.00	016876	Microchip: rfPIC12F675K, (ASK) 418MHz, -40°C ~ 85°C
13.22560	744-1012-1-ND	1.76	1.67	1.54	620.00	017035	Maxim: MAX1471, 433.92MHz, -40°C ~ 85°C
13.56000	744-1010-1-ND	1.76	1.67	1.54	620.00	017001	Maxim: MAX1472, 433.92MHz, -40°C ~ 85°C
13.56000	744-1005-1-ND	1.28	1.22	1.12	450.00	016877	Microchip: rfPIC12C509AG/509AF, (ASK) 433.92MHz, -40°C ~ 85°C
16.000	744-1327-1-ND✔	2.68	2.54	2.35	938.00	017466	MAX7048, MAX7049, MAX7057, -40°C ~ 125°C
19.66080	744-1019-1-ND	2.72	2.58	2.38	950.00	017119	Texas Instruments: TRF6901/6903/ 4903, -40°C ~ 85°C
20.35625	744-1008-1-ND	1.08	1.03	.95	380.00	016999	Microchip: rfRXD0420, (ASK) 315MHz, -40°C ~ 85°C
24.00000	744-1000-1-ND	.92	.87	.81	—	016808	Texas Instruments: USB Chipset
26.45125	744-1006-1-ND	1.08	1.03	.95	380.00	016985	Microchip: rfRXD0420, (ASK) 433.92MHz, -40°C ~ 85°C
26.80000	744-1014-1-ND	1.08	1.03	.95	380.00	017053	Microchip: rfRXD0920, (ASK) 868.3MHz, -40°C ~ 85°C
28.259375	744-1015-1-ND	1.08	1.03	.95	380.00	017055	Microchip: rfRXD0920, (ASK) 915MHz, -40°C ~ 85°C
49.15200	744-1023-1-ND	13.32	12.65	11.66	4660.00	017150	Texas Instruments: FireWire TSB41BA3, 0°C ~ 70°C
Oscillators							
49.15200	744-1026-1-ND	5.00	4.75	4.38	1750.00	601188	Texas Instruments: FireWire TSB41BA3, -40°C ~ 85°C, 1.8V
98.30400	744-1029-1-ND	11.80	11.21	10.33	4130.00	601252	Texas Instruments: FireWire TSB41BA3, -40°C ~ 85°C, 1.8V
49.15200	744-1027-1-ND	4.68	4.45	4.10	1640.00	601230	Texas Instruments: FireWire TSB41BA3, 0°C ~ 70°C, 1.8V
98.30400	744-1028-1-ND	11.00	10.45	9.63	3850.00	601251	Texas Instruments: FireWire TSB41BA3, 0°C ~ 70°C, 1.8V
98.30400	744-1025-1-ND	4.64	4.41	4.06	1620.00	601107	Texas Instruments: DSP Radio, 0°C ~ 70°C, 3.3V
VCXO's							
122.8800	744-1251-ND†	59.12	56.19	51.73	—	602017	Linear Technologies DC1216A-B

✔ ***NEW!*** † Bulk ◊ For Tape and Reel part number, change 1-ND to 2-ND.

CRYSTEK CORPORATION Connectorized RF Products

Dimensions in mm

Pocket Reference Oscillators - RFPRO, PRO, Attenuators, Low Pass Filters, DC Block, Frequency Doublers, PPRO, and In-Line Regulators

For dimensions, please see Digi-Key website for data sheet.

RedBox Amplifier and RedBox Regulators

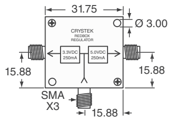

NEW! Pocket Reference Oscillators

RFPRO Series — +100ppm -20°C ~ 70°C

Frequency	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
500MHz	744-1325-ND	75.00	72.19	69.30	RFPRO33-500.000
1.0GHz	744-1326-ND	75.00	72.19	69.30	RFPRO33-1000.000

Pocket Reference Oscillators PRO Series — ±25ppm 0°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
10.000	744-1228-ND	49.61	44.95	43.86	CPRO33-10.000
20.000	744-1232-ND	49.61	44.95	43.86	CPRO33-20.000
25.000	744-1233-ND	49.61	44.95	43.86	CPRO33-25.000
50.000	744-1237-ND	49.61	44.95	43.86	CPRO33-50.000
80.000	744-1240-ND	49.61	44.95	43.86	CPRO33-80.000
100.000	744-1241-ND	49.61	44.95	43.86	CPRO33-100.000
106.250	744-1242-ND	49.61	44.95	43.86	CPRO33-106.250
125.000	744-1243-ND	49.61	44.95	43.86	CPRO33-125.000

SMA 50Ω Attenuators — DC ~ 3GHz

Attenuation (dB)	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
1.0	744-1255-ND	18.56	16.56	16.04	CATTEN-01R0
1.5	744-1256-ND	18.56	16.56	16.04	CATTEN-01R5
2.0	744-1257-ND	18.56	16.56	16.04	CATTEN-02R0
3.0	744-1258-ND	18.56	16.56	16.04	CATTEN-03R0
4.0	744-1259-ND	18.56	16.56	16.04	CATTEN-04R0
5.0	744-1260-ND	18.56	16.56	16.04	CATTEN-05R0
6.0	744-1261-ND	18.56	16.56	16.04	CATTEN-06R0
7.0	744-1262-ND	18.56	16.56	16.04	CATTEN-07R0
8.0	744-1263-ND	18.56	16.56	16.04	CATTEN-08R0
9.0	744-1264-ND	18.56	16.56	16.04	CATTEN-09R0
10.0	744-1265-ND	18.56	16.56	16.04	CATTEN-0100
15.0	744-1266-ND	18.56	16.56	16.04	CATTEN-0150
20.0	744-1267-ND	18.56	16.56	16.04	CATTEN-0200

NEW! SMA Low Pass Filters DC ~ 800MHz

Range	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
DC ~ 100MHz	744-1357-ND	24.09	21.94	21.51	CLPFL-0100
DC ~ 200MHz	744-1358-ND	24.09	21.94	21.51	CLPFL-0200
DC ~ 300MHz	744-1359-ND	24.09	21.94	21.51	CLPFL-0300
DC ~ 400MHz	744-1360-ND	24.09	21.94	21.51	CLPFL-0400
DC ~ 500MHz	744-1361-ND	24.09	21.94	21.51	CLPFL-0500
DC ~ 600MHz	744-1362-ND	24.09	21.94	21.51	CLPFL-0600
DC ~ 700MHz	744-1363-ND	24.09	21.94	21.51	CLPFL-0700
DC ~ 800MHz	744-1364-ND	24.09	21.94	21.51	CLPFL-0800

SMA DC Block — 300KHz ~ 3GHz

Digi-Key Part No.	Price Each			Crystek Corporation Part No.
	1	5	10	
744-1268-ND	18.56	16.56	16.04	CBLK-300-3

SMA Frequency Doublers

Input Frequency Range	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
0.85 ~ 2.0GHz	744-1315-ND	31.29	29.74	28.51	CPPD-0.85-2
2.0 ~ 4.0GHz	744-1316-ND	31.29	29.74	28.51	CPPD-2-4

NEW! Precision Pocket Reference Oscillators

PPRO Series — ±2.5ppm Maximum -20°C ~ 75°C

Description	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
13.000MHz, 3.0V	744-1330-ND	58.62	53.82	52.77	PPRO30-13.000
19.200MHz, 3.0V	744-1331-ND	58.62	53.82	52.77	PPRO30-19.200
26.000MHz, 3.0V	744-1332-ND	58.60	53.82	52.77	PPRO30-26.000
40.000MHz, 3.0V	744-1333-ND	58.62	53.82	52.77	PPRO30-40.000

PROPOWER In-Line Regulator Kits

Description	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
1.8VDC In-Line Regulator, Cable, Wall Adapter Kit	744-1283-ND	73.57	68.32	67.01	PROPOWER-1.8V-KIT
2.5VDC In-Line Regulator, Cable, Wall Adapter Kit	744-1284-ND	73.57	68.32	67.01	PROPOWER-2.5V-KIT
3.3VDC In-Line Regulator, Cable, Wall Adapter Kit	744-1285-ND	73.57	68.32	67.01	PROPOWER-3.3V-KIT
5.0VDC In-Line Regulator, Cable, Wall Adapter Kit	744-1286-ND	73.57	68.32	67.01	PROPOWER-5.0V-KIT

RedBox Amplifier — 100MHz ~ 6GHz

Description	Digi-Key Part No.	Price Each	Crystek Corporation Part No.
Connectorized Amplifier	744-1292-ND	74.84	CRBAMP-100-6000

RedBox Dual Output Regulator Kits

Description	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
1.8VDC and 2.5VDC RedBox Regulator, Adapter Cable, Wall Adapter, SMA to Alligator Clips Kit	744-1288-ND	108.73	106.65	104.55	CRBR-1.8-2.5V-KIT
3.3VDC and 5.0VDC RedBox Regulator, Adapter Cable, Wall Adapter, SMA to Alligator Clips Kit	744-1289-ND	108.73	106.65	104.55	CRBR-3.3-5.0V-KIT

RF Coax Cables and Accessories

Description	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
		1	5	10	
NEW! 160 Series 40GHz Low Loss (2.92mm (K) Straight) NEW!					
160, Male 2.92mm (K) 30”	744-1343-ND	211.01	206.95	202.90	CCK40-MM-160-30
160, Male 2.92mm (K) 36”	744-1344-ND	216.97	212.79	208.62	CCK40-MM-160-36
160, Male 2.92mm (K) 39.4”	744-1345-ND	220.33	216.10	211.87	CCK40-MM-160-39.4
160, Male 2.92mm (K) 48”	744-1346-ND	228.87	224.47	220.07	CCK40-MM-160-48
NEW! 26.5GHz Low Loss Coaxial Cables NEW!					
2.92mm (K) Male/Male 30”	744-1349-ND	228.16	223.77	219.38	CCK26.5-MM-190-30
2.92mm (K) Male/Male 36”	744-1350-ND	234.71	230.22	225.72	CCK26.5-MM-190-36
2.92mm (K) Male/Male 39.4”	744-1351-ND	238.47	233.88	229.30	CCK26.5-MM-190-39.4
2.92mm (K) Male/Male 48”	744-1352-ND	247.06	242.33	237.58	CCK26.5-MM-190-48
SMA Male/Male 30”	744-1353-ND	221.36	217.10	212.85	CCSMA26.5-MM-190-30
SMA Male/Male 36”	744-1354-ND	227.94	223.56	219.17	CCSMA26.5-MM-190-36
SMA Male/Male 39.4”	744-1355-ND	231.67	227.21	222.77	CCSMA26.5-MM-190-39.4
SMA Male/Male 48”	744-1356-ND	241.11	236.47	231.83	CCSMA26.5-MM-190-48
NEW! LL142 18GHz Low Loss (SMA/SMA, Straight) NEW!					
LL142, Male (SMA/SMA) 12”	744-1339-ND	130.75	128.23	125.73	CCSMA-MM-LL142-12
LL142, Male (SMA/SMA) 24”	744-1340-ND	138.29	135.63	132.98	CCSMA-MM-LL142-24
LL142, Male (SMA/SMA) 36”	744-1341-ND	145.83	143.03	140.23	CCSMA-MM-LL142-36
LL142, Male (SMA/SMA) 48”	744-1342-ND	153.37	150.42	147.47	CCSMA-MM-LL142-48
NEW! SS402 18GHz Precision Cable (SMA/SMA, Straight) NEW!					
SS402, Male (SMA/SMA) 12"	744-1334-ND	76.22	74.76	73.29	CCSMA-MM-SS402-12
SS402, Male (SMA/SMA) 24"	744-1335-ND	80.05	78.52	76.98	CCSMA-MM-SS402-24
SS402, Male (SMA/SMA) 36"	744-1336-ND	83.89	82.34	80.73	CCSMA-MM-SS402-36
SS402, Male (SMA/SMA) 48”	744-1347-ND	87.72	86.03	84.35	CCSMA-MM-SS402-48
SS402, Male (SMA/SMA) 60"	744-1337-ND	91.56	89.80	88.04	CCSMA-MM-SS402-60
SS402, Male (SMA/SMA) 72”	744-1348-ND	95.39	93.55	91.72	CCSMA-MM-SS402-72
SS402, Male (SMA/SMA) 120"	744-1338-ND	116.31	114.08	111.84	CCSMA-MM-SS402-120
RG316 Double Shield (BNC/SMA, Straight)					
RG316DS, Male (BNC/SMA) 6"	744-1293-ND	14.11	12.30	11.20	CCBNS-MM-RG316DS-6
RG316DS, Male (BNC/SMA) 12"	744-1294-ND	14.67	12.62	11.49	CCBNS-MM-RG316DS-12
RG316DS, Male (BNC/SMA) 24"	744-1295-ND	16.36	14.28	13.01	CCBNS-MM-RG316DS-24
RG316DS, Male (BNC/SMA) 36"	744-1296-ND	17.60	16.26	15.36	CCBNS-MM-RG316DS-36
RG316 Double Shield (SMA/SMA, Straight)					
RG316DS, Male (SMA/SMA) 6"	744-1298-ND	14.31	13.00	11.84	CCSMA-MM-RG316DS-6
RG316DS, Male (SMA/SMA) 12"	744-1276-ND	14.87	13.32	12.13	CCSMA-MM-RG316DS-12
RG316DS, Male (SMA/SMA) 24"	744-1277-ND	16.05	14.98	13.65	CCSMA-MM-RG316DS-24
RG316DS, Male (SMA/SMA) 36"	744-1278-ND	18.81	17.56	15.99	CCSMA-MM-RG316DS-36
RG316DS, Male (SMA/SMA) 48"	744-1279-ND	23.72	22.14	20.16	CCSMA-MM-RG316DS-48
RG316 Double Shield (SMA/SMA, Straight/Right Angle)					
RG316DS, Male (SMA/SMA-RA) 6"	744-1299-ND	15.06	13.63	12.41	CCSMA1-MM-RG316DS-6
RG316DS, Male (SMA/SMA-RA) 12"	744-1300-ND	15.62	13.95	12.70	CCSMA1-MM-RG316DS-12
RG316DS, Male (SMA/SMA-RA) 24"	744-1301-ND	17.31	15.61	14.22	CCSMA1-MM-RG316DS-24
RG316DS, Male (SMA/SMA-RA) 36"	744-1302-ND	18.55	18.19	16.57	CCSMA1-MM-RG316DS-36
RG316 Double Shield (SMA/SMA, Right Angle/Right Angle)					
RG316DS, Male (SMA-RA/SMA-RA) 6"	744-1303-ND	15.81	14.26	12.98	CCSMA2-MM-RG316DS-6
RG316DS, Male (SMA-RA/SMA-RA) 12"	744-1304-ND	16.37	14.58	13.28	CCSMA2-MM-RG316DS-12
RG316DS, Male (SMA-RA/SMA-RA) 24"	744-1305-ND	18.06	16.24	14.79	CCSMA2-MM-RG316DS-24
RG316DS, Male (SMA-RA/SMA-RA) 36"	744-1306-ND	19.30	18.15	17.14	CCSMA2-MM-RG316DS-36
RG174 Shielded (BNC/SMA, Straight)					
RG174 Male (BNC/SMA) 18"	744-1297-ND	12.55	10.70	9.75	CCBNS-MM-RG174-18
RG174 Male (BNC/SMA) 36"	744-1249-ND	12.70	10.99	10.01	CCBNS-MM-RG174-36
RG174 Shielded (SMA/SMA, Straight)					
RG174 Male (SMA/SMA) 6"	744-1244-ND	14.37	12.02	10.94	CCSMA-MM-RG174-6
RG174 Male (SMA/SMA) 12"	744-1245-ND	14.53	12.16	11.07	CCSMA-MM-RG174-12
RG174 Male (SMA/SMA) 18"	744-1246-ND	15.36	12.84	11.70	CCSMA-MM-RG174-18
RG174 Male (SMA/SMA) 24"	744-1247-ND	15.51	12.97	11.81	CCSMA-MM-RG174-24
RG174 Male (SMA/SMA) 36"	744-1248-ND	15.67	13.11	11.94	CCSMA-MM-RG174-36
RG174 Male (SMA/SMA) 48"	744-1329-ND ***NEW!***	17.56	13.38	13.12	CCSMA-MM-RG174-48
RG174 Shielded (SMA/SMA, Straight/Right Angle)					
RG174 Male (SMA/SMA-RA) 6"	744-1307-ND	15.12	12.65	11.52	CCSMA1-MM-RG174-6
RG174 Male (SMA/SMA-RA) 12"	744-1308-ND	15.28	12.79	11.65	CCSMA1-MM-RG174-12
RG174 Male (SMA/SMA-RA) 24"	744-1309-ND	16.11	13.47	12.27	CCSMA1-MM-RG174-24
RG174 Male (SMA/SMA-RA) 36"	744-1310-ND	16.26	13.60	12.38	CCSMA1-MM-RG174-36
RG174 Shielded (SMA/SMA, Right Angle/Right Angle)					
RG174 Male (SMA-RA/SMA-RA) 6"	744-1311-ND	15.87	13.28	12.09	CCSMA2-MM-RG174-6
RG174 Male (SMA-RA/SMA-RA) 12"	744-1312-ND	16.03	13.42	12.22	CCSMA2-MM-RG174-12
RG174 Male (SMA-RA/SMA-RA) 24"	744-1313-ND	16.86	14.10	12.84	CCSMA2-MM-RG174-24
RG174 Male (SMA-RA/SMA-RA) 36"	744-1314-ND	17.01	14.23	12.96	CCSMA2-MM-RG174-36
RG58A/U Shielded (N-Type/N-Type, Straight)					
RG58A/U Male (N-Type/N-Type) 12"	744-1273-ND	14.55	13.58	12.37	CCN-MM-RG58-12
RG58A/U Male (N-Type/N-Type) 24"	744-1274-ND	15.39	14.37	13.09	CCN-MM-RG58-24
RG58A/U Male (N-Type/N-Type) 36"	744-1275-ND	16.70	15.59	14.20	CCN-MM-RG58-36
Accessories					
RG174 BNC to Alligator Clips 30"	744-1282-ND	23.96	23.50	23.04	CCBNCCL-MC-30
RG174 SMA to Alligator Clips 24"	744-1281-ND	23.96	23.50	23.04	CCSMACL-MC-24
RG174 Male (SMA to 2.1mm Adapter Cable)	744-1280-ND	22.04	21.62	21.19	CCADP-MM-6
6VDC (0.6A) Wall Adapter for use with all Regulator Series	744-1287-ND	12.99	12.74	12.49	CTRAN-600

Note: *For additional specifications please see the manufacturer’s data sheets.*

VCO's (Voltage Controlled Oscillators) — CVCO Series

Dimensions in mm

Fig. 1 — 0.30" x 0.30"

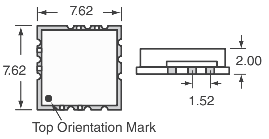

Pad	Connection
1	Vt
8	RF-OUTPUT
11	Vcc
Others	GROUND

Fig. 2 — 0.50" x 0.50"

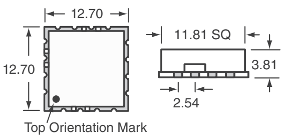

Pad	Connection
2	Vt
10	RF-OUTPUT
14	Vcc
Others	GROUND

Fig. 3 — 0.40" x 0.496"

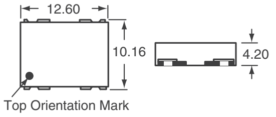

Pad	Connection
1	Vt
3	Vcc
4	RF-OUTPUT
Others	GROUND

VCO Evaluation Boards

Crystek's VCO Evaluation Boards are a turn key solution to easy stand alone testing. Evaluation boards are constructed using rigid 0.062" FR4 PCB material. Solder down connection method insures that the VCO will receive proper grounding for best testing results. Evaluation boards are available for 0.3" x 0.3" and 0.5" x 0.5" industrial standard VCO footprints.

Features:
• **Connectors:** Gold plated SMA female connectors • **Frequency range:** DC to 6GHz • **PCB:** 0.062" FR4 • **Operating temperature:** -40°C ~ 85°C

744-1269-ND (CEVAL-033) 0.30" x 0.30" VCO CVCO33**.... $37.73**
744-1270-ND (CEVAL-055) 0.50" x 0.50" VCO CVCO55**.... $37.73**

Fig.	Frequency Range (MHz)	Phase Noise @ 10kHz Typ. (dBc/Hz)	Tuning Voltage (Vdc)	Tuning Sensitivity (MHz/V)	Harmonic Suppression (dBc)	Power (dBm)	Vcc (Vdc)	Supply Current (mA)	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
1	110 ~ 150	-110	0.0 ~ 5.0	11	-10	0 ±3	3.3 ±0.165	10	744-1056-ND	26.25	23.10	21.00	CVCO33CL-0110-0150
	125 ~ 200	-100	0.5 ~ 6.0	12	-15	6 ±3	5.0 ±0.25	30	744-1057-ND	26.25	23.10	21.00	CVCO33CL-0125-0200
	390 ~ 410	-105	0.5 ~ 4.5	12	-12	0 ±3	5.0 ±0.25	10	744-1059-ND	26.25	23.10	21.00	CVCO33CL-0390-0410
	415 ~ 435	-103	0.5 ~ 4.5	12	-15	3 ±3	5.0 ±0.25	15	744-1060-ND	26.75	23.54	21.40	CVCO33CL-0415-0435
	435 ~ 470	-106	0.5 ~ 5.0	15	-10	3 ±3	5.0 ±0.25	15	744-1061-ND	26.75	23.54	21.40	CVCO33CL-0435-0470
2	42 ~ 46	-116	0.5 ~ 4.5	3	-13	-1 ±2	5.0 ±0.25	8	744-1164-ND	27.63	24.31	22.10	CVCO55CL-0042-0046
	45 ~ 70	-115	0.5 ~ 10.5	4	-10	5 ±3	5.0 ±0.25	15	744-1165-ND	27.63	24.31	22.10	CVCO55CL-0045-0070
	60 ~ 110	-114	0.5 ~ 9.5	8	-10	8 ±3	5.0 ±0.25	25	744-1181-ND	28.75	25.30	23.00	CVCO55CL-0060-0110
	72 ~ 76	-110	0.3 ~ 3.0	7	-15	0 ±2	3.3 ±0.165	5	744-1182-ND	28.75	25.30	23.00	CVCO55CL-0072-0076
	140 ~ 250	-106	0.5 ~ 10.0	55	-14	3 ±2	5.0 ±0.25	15	744-1204-ND	30.38	26.73	24.30	CVCO55CW-0140-0250
	150 ~ 200	-115	0.3 ~ 4.7	16	-15	4 ±4	5.0 ±0.25	35	744-1183-ND	28.75	25.30	23.00	CVCO55CL-0150-0200
	180 ~ 200	-110	0.5 ~ 4.5	8	-10	3 ±2	5.0 ±0.25	15	744-1166-ND	27.63	24.31	22.10	CVCO55CL-0180-0200
	200 ~ 400	-109	0.0 ~ 5.0	50	-10	3 ±3	5.0 ±0.25	15	744-1184-ND	28.75	25.30	23.00	CVCO55CL-0200-0400
	209 ~ 277	-112	0.3 ~ 4.7	20	-15	5 ±3	7.0 ±0.35	15	744-1185-ND	28.75	25.30	23.00	CVCO55CL-0209-0277
	225 ~ 425	-100	0.5 ~ 6.5	75	-15	-10 ±3	7.0 ±0.25	5	744-1168-ND	27.63	24.31	22.10	CVCO55CL-0225-0425
	250 ~ 450	-96	0.3 ~ 4.7	50	-15	0 ±3	5.0 ±0.25	12	744-1205-ND	30.38	26.73	24.30	CVCO55CW-0250-0450
	250 ~ 500	-106	0.5 ~ 19.0	75	-15	10 ±3	14.25 ±0.75	25	744-1206-ND	30.38	26.73	24.30	CVCO55CW-0250-0500
	305 ~ 345	-111	0.5 ~ 4.5	21	-10	6.5 ±3.5	5.0 ±0.25	13	744-1186-ND	28.75	25.30	23.00	CVCO55CL-0305-0345
	350 ~ 405	-110	0.5 ~ 5.0	39	-3	7.25 ±2.75	5.0 ±0.25	15	744-1170-ND	27.63	24.31	22.10	CVCO55CL-0350-0405
	370 ~ 450	-110	0.5 ~ 4.5	35	-4	7 ±2	5.0 ±0.25	15	744-1187-ND	28.75	25.30	23.00	CVCO55CL-0370-0450
	393 ~ 428	-112	0.5 ~ 4.5	15	-12	3 ±3	5.0 ±0.25	8	744-1171-ND	27.63	24.31	22.10	CVCO55CL-0393-0428
	400 ~ 800	-105	0.0 ~ 12.0	47	-5	7 ±5	5.0 ±0.25	17	744-1071-ND	29.50	25.96	23.60	CVCO55BE-0400-0800
	400 ~ 800	-105	0.0 ~ 12.0	47	-5	7 ±5	5.0 ±0.25	17	744-1207-ND	30.38	26.73	24.30	CVCO55CW-0400-0800
	434 ~ 452	-110	1.5 ~ 3.5	18	-15	0 ±4	5.0 ±0.25	16	744-1188-ND	28.75	25.30	23.00	CVCO55CL-0434-0452
	450 ~ 470	-110	1.5 ~ 3.5	20	-15	0 ±4	5.0 ±0.25	16	744-1189-ND	28.75	25.30	23.00	CVCO55CL-0450-0470
	490 ~ 540	-108	0.5 ~ 4.5	31	-12	3 ±3	5.0 ±0.25	15	744-1174-ND	27.63	24.31	22.10	CVCO55CL-0490-0540
	500 ~ 1000	-104	0.5 ~ 18.0	60	-5	7 ±3	12.0 ±0.60	14	744-1208-ND	30.88	27.17	24.70	CVCO55CW-0500-1000
	575 ~ 675	-110	0.3 ~ 4.7	30	-15	2.5 ±2.5	5.0 ±0.25	15	744-1192-ND	28.75	25.30	23.00	CVCO55CL-0575-0675
	600 ~ 660	-105	0.3 ~ 4.7	22	-15	2 ±2	5.0 ±0.25	20	744-1193-ND	28.75	25.30	23.00	CVCO55CL-0600-0660
	600 ~ 880	-100	0.5 ~ 4.5	60	-10	3 ±3	5.0 ±0.25	20	744-1175-ND	28.75	25.30	23.00	CVCO55CL-0600-0880
	760 ~ 860	-105	0.3 ~ 4.7	40	-15	-4 ±1	2.0 ±0.10	22	744-1195-ND	28.75	25.30	23.00	CVCO55CL-0760-0860
	800 ~ 1600	-100	0.5 ~ 19.0	60	-10	6 ±2	11.5 ±0.5	15	744-1073-ND	29.50	25.96	23.60	CVCO55BE-0800-1600
	800 ~ 980	-100	0.5 ~ 5.0	75	-22	3 ±3	5.0 ±0.25	25	744-1196-ND	28.75	25.30	23.00	CVCO55CL-0800-0980
	805 ~ 900	-105	0.5 ~ 5.0	30	-15	2 ±3	5.0 ±0.25	20	744-1177-ND	28.75	25.30	23.00	CVCO55CL-0805-0900
	902 ~ 928	-115	0.5 ~ 4.5	13	-15	5 ±3	5.0 ±0.25	15	744-1197-ND	28.75	25.30	23.00	CVCO55CL-0902-0928
	902 ~ 928	-114	0.3 ~ 4.7	13	-15	10 ±2	12.0 ±0.50	25	744-1203-ND	29.38	25.85	23.50	CVCO55CT-0902-0928
	920 ~ 980	-105	1.0 ~ 5.0	30	-12	5 ±2	5.0 ±0.25	35	744-1178-ND	28.75	25.30	23.00	CVCO55CL-0920-0980
	925 ~ 970	-110	0.5 ~ 4.5	13	-15	5 ±3	5.0 ±0.25	15	744-1198-ND	28.75	25.30	23.00	CVCO55CL-0925-0970
	1000 ~ 1500	-95	0.5 ~ 4.5	150	-15	3 ±3	3.0 ±0.15	10	744-1112-ND	29.50	25.96	23.60	CVCO55BE-1000-1500
	1000 ~ 2000	-100	1.0 ~ 20.0	52	-10	5.5 ±2.5	10.0 ±0.25	15	744-1111-ND	29.50	25.96	23.60	CVCO55BE-1000-2000
	1165 ~ 1175	-110	0.5 ~ 4.5	10	-20	2.5 ±2.5	5.0 ±0.25	35	744-1200-ND	28.75	25.30	23.00	CVCO55CL-1165-1175
	1200 ~ 2300	-100	0.5 ~ 20.0	58	-10	4 ±2	5.0 ±0.25	25	744-1075-ND	29.50	25.96	23.60	CVCO55BE-1200-2300
	1256 ~ 1264	-112	0.5 ~ 4.5	15	-17	5 ±2	5.0 ±0.25	20	744-1180-ND	29.38	25.85	23.50	CVCO55CL-1256-1264
	1400 ~ 1624	-102	0.3 ~ 4.7	65	-10	0 ±3	5.0 ±0.25	30	744-1076-ND	29.50	25.96	23.60	CVCO55BE-1400-1624
	1440 ~ 1670	-100	0.5 ~ 4.5	99	-13	4 ±2	5.0 ±0.25	12	744-1077-ND	29.50	25.96	23.60	CVCO55BE-1440-1670
	1480 ~ 1600	-99	0.5 ~ 4.5	65	-12	6.5 ±1.5	5.0 ±0.25	15	744-1114-ND	29.50	25.96	23.60	CVCO55BE-1480-1600
	1530 ~ 2700	-87	0.5 ~ 10.0	140	-15	6.5 ±1.5	5.0 ±0.25	15	744-1115-ND	29.50	25.96	23.60	CVCO55BE-1530-2700
	1550 ~ 1650	-102	0.5 ~ 4.5	45	-15	3 ±3	5.0 ±0.25	17	744-1116-ND	29.50	25.96	23.60	CVCO55BE-1550-1650

(Continued)

VCO's (Voltage Controlled Oscillators) — CVCO Series *(Cont.)*

Fig.	Frequency Range (MHz)	Phase Noise @ 10kHz Typ. (dBc/Hz)	Tuning Voltage (Vdc)	Tuning Sensitivity (MHz/V)	Harmonic Suppression (dBc)	Power (dBm)	Vcc (Vdc)	Supply Current (mA)	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	Crystek Corporation Part No.
2	1550 ~ 2050	-106	0.5 ~ 15.5	36	-15	-2.5 ±2.5	8.0 ±0.40	17	744-1079-ND	29.50	25.96	23.60	CVCO55BE-1550-2050
	1550 ~ 2500	-95	0.5 ~ 9.5	115	-7	6 ±3	10.0 ±0.25	13	744-1080-ND	29.50	25.96	23.60	CVCO55BE-1550-2500
	1600 ~ 2700	-98	1.0 ~ 20.0	84	-15	5 ±5	10.0 ±0.50	22	744-1081-ND	29.50	25.96	23.60	CVCO55BE-1600-2700
	1640 ~ 1840	-101	0.5 ~ 4.5	85	-15	3 ±2	4.5 ±0.25	10	744-1082-ND	29.50	25.96	23.60	CVCO55BE-1640-1840
	1650 ~ 1850	-105	0.5 ~ 10.0	25	-12	3 ±2	5.0 ±0.25	25	744-1083-ND	29.50	25.96	23.60	CVCO55BE-1650-1850
	1650 ~ 2050	-105	0 ~ 20.0	25	-15	-2.5 ±2.5	8.0 ±0.4	28	744-1084-ND	29.50	25.96	23.60	CVCO55BE-1650-2050
	1690 ~ 2062	-96	0.0 ~ 5.0	145	-22	5 ±2	5.0 ±0.25	20	744-1120-ND	29.50	25.96	23.60	CVCO55BE-1690-2062
	1750 ~ 2150	-100	0.3 ~ 4.7	85	-15	0 ±3	5.0 ±0.25	25	744-1087-ND	29.50	25.96	23.60	CVCO55BE-1750-2150
	1785 ~ 1900	-100	0.3 ~ 4.7	45	-15	2.5 ±2.5	5.0 ±0.25	35	744-1090-ND	29.50	25.96	23.60	CVCO55BE-1785-1900
	1800 ~ 2200	-100	0.5 ~ 18.0	57	-15	-3 ±3	10.0 ±0.5	15	744-1122-ND	29.50	25.96	23.60	CVCO55BE-1800-2200
	1820 ~ 2100	-105	0.5 ~ 18.0	20	-15	0 ±3	8.0 ±0.4	30	744-1091-ND	29.50	25.96	23.60	CVCO55BE-1820-2100
	1900 ~ 2762	-92	0.5 ~ 9.5	140	-7	6 ±3	10.0 ±0.25	13	744-1094-ND	29.50	25.96	23.60	CVCO55BE-1900-2762
	1930 ~ 1990	-105	0.5 ~ 4.5	70	-15	2 -2+3	5.0 ±0.25	15	744-1124-ND	29.50	25.96	23.60	CVCO55BE-1930-1990
	1950 ~ 2070	-102	0.5 ~ 4.5	40	-20	4 ±2	5.0 ±0.25	18	744-1125-ND	29.50	25.96	23.60	CVCO55BE-1950-2070
	1950 ~ 2150	-96	0.5 ~ 4.5	72	-15	5 ±2	5.0 ±0.25	16	744-1126-ND	29.50	25.96	23.60	CVCO55BE-1950-2150
	2000 ~ 2800	-92	1.0 ~ 24.0	25	-15	5 ±5	5.0 ±0.25	25	744-1127-ND	29.50	25.96	23.60	CVCO55BE-2000-2800
	2100 ~ 2200	-98	0.5 ~ 4.5	50	-12	4 ±2	5.0 ±0.25	15	744-1129-ND	30.75	27.06	24.60	CVCO55BE-2100-2200
	2100 ~ 2300	-103	0.3 ~ 4.7	60	-18	0 ±3	5.0 ±0.25	25	744-1098-ND	29.50	25.96	23.60	CVCO55BE-2100-2300
	2110 ~ 2170	-105	0.5 ~ 4.5	70	-15	3 ±3	5.0 ±0.25	11	744-1130-ND	30.75	27.06	24.60	CVCO55BE-2110-2170
	2130 ~ 2360	-103	0.5 ~ 4.5	70	-12	0 ±2	5.0 ±0.25	20	744-1132-ND	30.75	27.06	24.60	CVCO55BE-2130-2360
	2200 ~ 2570	-101	1.0 ~ 17.0	46	-15	0 ±3	5.0 ±0.25	35	744-1133-ND	30.75	27.06	24.60	CVCO55BE-2200-2570
	2300 ~ 2450	-100	0.5 ~ 4.5	56	-15	4 ±2	5.0 ±0.25	29	744-1100-ND	29.50	25.96	23.60	CVCO55BE-2300-2450
	2400 ~ 2670	-102	1.0 ~ 17.0	35	-15	2 ±2	5.0 ±0.25	38	744-1138-ND	30.75	27.06	24.60	CVCO55BE-2400-2670
	2430 ~ 2585	-101	0.2 ~ 4.8	45	-16	2 ±2	5.0 ±0.25	15	744-1140-ND	30.75	27.06	24.60	CVCO55BE-2430-2585
	2495 ~ 2625	-100	0.5 ~ 4.5	59	-20	0 ±3	5.0 ±0.25	25	744-1102-ND	29.50	25.96	23.60	CVCO55BE-2495-2625
	2650 ~ 2800	-102	0.5 ~ 4.5	40	-15	0 ±3	5.0 ±0.25	25	744-1147-ND	33.00	29.04	26.40	CVCO55BE-2650-2800
	3000 ~ 3100	-101	0.5 ~ 11.5	23	-15	5 ±3	5.0 ±0.25	17	744-1156-ND	33.75	29.70	27.00	CVCO55BE-3000-3100
	3025 ~ 3125	-98	0.3 ~ 4.7	34	-15	0 ±3	5.0 ±0.25	35	744-1106-ND	34.00	29.92	27.20	CVCO55BE-3025-3125
	3050 ~ 3400	-98	1.0 ~ 20.0	40	-15	2.5 ±2.5	5.0 ±0.25	25	744-1158-ND	33.75	29.70	27.00	CVCO55BE-3050-3400
	3100 ~ 3350	-98	0.3 ~ 4.7	30	-15	4 ±4	5.0 ±0.25	25	744-1160-ND	33.75	29.70	27.00	CVCO55BE-3100-3350
	3350 ~ 3500	-97	0.3 ~ 4.7	45	-30	2.5 ±2	5.0 ±0.25	20	744-1108-ND	34.00	29.92	27.20	CVCO55BE-3350-3500
	3600 ~ 3800	-92	0.5 ~ 4.5	100	-15	4 ±2	5.0 ±0.25	10	744-1209-ND	45.33	39.89	36.26	CVCO55BH-3600-3800
	4100 ~ 4300	-90	0.5 ~ 4.5	100	-15	4 ±2	5.0 ±0.25	15	744-1210-ND	39.88	35.09	31.90	CVCO55BH-4100-4300
	5256 ~ 5356	-86	1.0 ~ 4.0	56	-10	0 ±2	5.0 ±0.25	25	744-1211-ND	41.00	36.08	32.80	CVCO55BH-5256-5356
3	100 ~ 140	-105	0.0 ~ 5.0	10	-15	3 ±3	3.0 ±0.15	15	744-1065-ND	25.75	22.66	20.60	CVCO45CL-0100-0140
	350 ~ 460	-105	0.0 ~ 5.0	10	-15	3 ±3	3.0 ±0.15	15	744-1066-ND	25.75	22.66	20.60	CVCO45CL-0350-0460
	430 ~ 470	-104	0.0 ~ 4.5	18	-15	2 ±2	5.0 ±0.25	10	744-1068-ND	25.75	22.66	20.60	CVCO45CL-0430-0470
	795 ~ 825	-108	0.5 ~ 4.5	12	-15	0 ±3	5.0 ±0.25	15	744-1069-ND	26.88	23.65	21.50	CVCO45CL-0795-0825
	900 ~ 940	-104	0.5 ~ 4.5	28	-20	0 ±3	5.0 ±0.25	17	744-1070-ND	27.75	24.42	22.20	CVCO45CL-0900-0940

PLL (Phase Lock Loop) with Internal VCO — CPLL66 Series

Frequency (MHz)	Phase Noise @10kHz Typ. (dBc/Hz)	Step Size Typ. (KHz)	2nd Harm, Typ. (dBc)	Power (dBm)	Operating Temperature (°C)	VCO (Vdc)	PLL (Vdc)	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	Crystek Corporation Part No.
1600 ~ 2200	-98	1,000	-15	7.0 ±2.0	-40 ~ 85	12.0 ±0.6	3.0 ±0.3	744-1317-ND	41.49	37.44	34.10	CPLL66-1600-2200
2175	-95	100	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1318-ND	41.49	37.44	34.10	CPLL66-2175-2175
2400 ~ 2500	-95	1,000	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1319-ND	41.49	37.44	34.10	CPLL66-2400-2500
2450	-95	100	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1320-ND	41.49	37.44	34.10	CPLL66-2450-2450
3160 ~ 3380	-95	2,500	-15	3.0 ±3.0	-40 ~ 85	8.0 ±0.4	3.0 ±0.3	744-1321-ND	41.49	37.44	34.10	CPLL66-3160-3380
3475	-95	2,500	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1322-ND	41.49	37.44	34.10	CPLL66-3475-3475
4160 ~ 4380	-90	2,500	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1323-ND	41.49	37.44	34.10	CPLL66-4160-4380
4240	-90	2,500	-15	3.0 ±3.0	-40 ~ 85	5.0 ±0.25	3.0 ±0.3	744-1324-ND	41.49	37.44	34.10	CPLL66-4240-4240

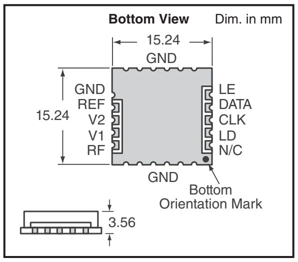

NDK SMD Crystals

NEW! NX3215SA Series 32.768Khz SMD Crystals

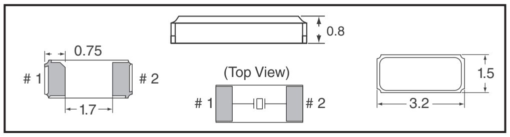

Electrical Characteristics:
• Frequency Tolerance (25±3°C): ±20ppm • Operating Temperature: -40°C ~ 85°C (MUA-9, MUA-8), -40°C ~ 125°C (MUS-2) • Drive Level: 0.5μW

Frequency (kHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	NDK Part No.
32.768	9.0	644-1155-1-ND	1.34	1.16	1.02	644-1155-2-ND	498.96	NX3215SA-32.768K-STD-MUA-9
32.768	12.5	644-1156-1-ND	1.34	1.16	1.02	644-1156-2-ND	498.96	NX3215SA-32.768K-STD-MUA-8
32.768	12.5	644-1159-1-ND	1.46	1.27	1.11	644-1159-2-ND	544.32	NX3215SA-32.768K-STD-MUS-2

NX2016AB Series

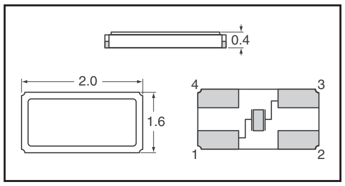

Frequency (MHz)	Load Cap. (pF)	Frequency Tolerance @ 25°C	Frequency Stability Over Operating Temp.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 3,000	NDK Part No.
26.000	8.0	±20ppm	±20ppm	644-1118-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-26MHZ ST1
32.000	8.0	±20ppm	±20ppm	644-1119-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-32MHZ ST2
36.000	8.0	±20ppm	±20ppm	644-1120-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-36MHZ ST3
38.400	8.0	±20ppm	±20ppm	644-1121-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-38.4MHZ ST4
26.000	7.0	±10ppm	±15ppm	644-1122-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-26MHZ SB1
26.000	7.0	±15ppm	±15ppm	644-1123-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-26MHZ SB2
38.400	7.0	±10ppm	±10ppm	644-1124-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-38.4MHZ SW1
38.400	7.0	±20ppm	±20ppm	644-1125-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-38.4MHZ SWW
40.000	7.0	±10ppm	±10ppm	644-1126-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-40MHZ SW2
40.000	7.0	±20ppm	±20ppm	644-1127-1-ND	2.23	1.94	1.70	801.90/M	NX2016AB-40MHZ SW2W

Note: For applications and additional specifications, please see the manufacturer's data sheets.
† For Tape and Reel part number, change 1-ND to 2-ND.

NX2520SA, NX3225SA, NX5032GA, NX8045GB, NX1255GB and NX3225GA Series

NX2520SA Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±10ppm • Frequency Stability: ±10ppm • Operating Mode: Fundamental • Load Capacitance: 10pf • Operating Temperature: -10°C ~ 60°C • Drive Level: 10μW

NX3225SA Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±15ppm • Frequency Stability: ±15ppm • Operating Mode: Fundamental • Load Capacitance: 8pf • Operating Temperature: -10°C ~ 75°C • Drive Level: 50μW

NX5032GA Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±50ppm • Frequency Stability: ±50ppm • Operating Mode: Fundamental • Load Capacitance: 8pf • Operating Temperature: -10°C ~ 70°C • Drive Level: 50μW

NX8045GB Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±50ppm • Frequency Stability: ±50ppm • Operating Mode: Fundamental • Load Capacitance: 8pf • Operating Temperature: -10°C ~ 70°C • Drive Level: 50μW

NX1255GB Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±50ppm • Frequency Stability: ±50ppm • Operating Mode: Fundamental • Load Capacitance: 12pf • Operating Temperature: -10°C ~ 70°C • Drive Level: 100μW

NX3225GA Series: Electrical Characteristics: • Frequency Tolerance (25±3°C): ±20ppm • Frequency Stability: ±30ppm • Operating Mode: Fundamental • Load Capacitance: 8pf • Operating Temperature: -10°C ~ 70°C • Drive Level: 200μW

NX2520SA Series

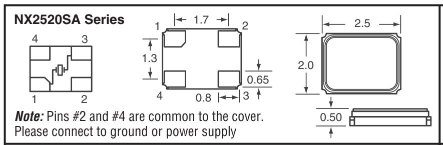

Note: Pins #2 and #4 are common to the cover.
Please connect to ground or power supply

NX3225SA Series

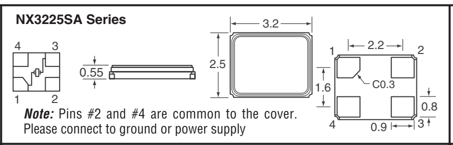

Note: Pins #2 and #4 are common to the cover.
Please connect to ground or power supply

NX5032GA Series

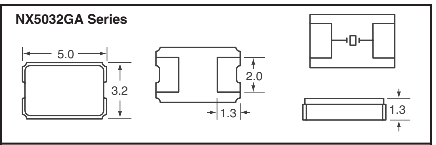

NX8045GB Series

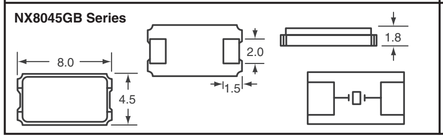

NX1255GB Series

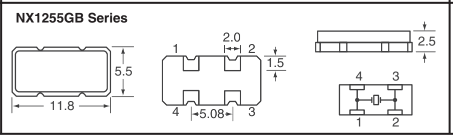

NX3225GA Series ***NEW!***

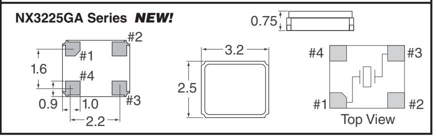

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	NDK Part No.
NX2520SA Series							
16.000000	644-1059-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-16.000000MHZ
20.000000	644-1060-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-20.000000MHZ
24.000000	644-1061-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-24.000000MHZ
24.576000	644-1062-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-24.576000MHZ
26.000000	644-1063-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-26.000000MHZ
30.000000	644-1064-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-30.000000MHZ
32.000000	644-1065-1-ND	2.12	1.84	1.62	3,000	764.00/M	NX2520SA-32.000000MHZ
40.000000	644-1066-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-40.000000MHZ
44.000000	644-1067-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-44.000000MHZ
48.000000	644-1068-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-48.000000MHZ
NX3225SA Series							
12.000000	644-1047-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-12.000000MHZ
14.318180	644-1048-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-14.318180MHZ
16.000000	644-1049-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-16.000000MHZ
20.000000	644-1050-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-20.000000MHZ
22.000000	644-1051-1-ND	1.06	.92	.81	—	—	NX3225SA-22.000000MHZ
24.000000	644-1052-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-24.000000MHZ
24.576000	644-1053-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-24.576000MHZ
26.000000	644-1054-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-26.000000MHZ
27.000000	644-1055-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-27.000000MHZ
32.000000	644-1056-1-ND	1.06	.92	.81	3,000	382.00/M	NX3225SA-32.000000MHZ
40.000000	644-1057-1-ND	1.17	1.02	.89	3,000	419.91/M	NX3225SA-40.000000MHZ
44.000000	644-1058-1-ND	1.17	1.02	.89	3,000	419.91/M	NX3225SA-44.000000MHZ
NX5032GA Series							
10.000000	644-1033-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-10.000000MHZ
12.000000	644-1034-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-12.000000MHZ
12.288000	644-1035-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-12.288000MHZ
13.560000	644-1036-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-13.560000MHZ
16.000000	644-1037-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-16.000000MHZ
16.384000	644-1038-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-16.384000MHZ
20.000000	644-1039-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-20.000000MHZ
24.000000	644-1040-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-24.000000MHZ
25.000000	644-1041-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-25.000000MHZ
27.000000	644-1042-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-27.000000MHZ
30.000000	644-1043-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-30.000000MHZ
32.000000	644-1044-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-32.000000MHZ
40.000000	644-1045-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-40.000000MHZ
48.000000	644-1046-1-ND	.81	.71	.62	1,000	302.40	NX5032GA-48.000000MHZ

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	NDK Part No.
NX8045GB Series							
8.000000	644-1018-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-8.000000MHZ
10.000000	644-1019-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-10.000000MHZ
12.000000	644-1020-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-12.000000MHZ
12.288000	644-1021-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-12.288000MHZ
13.560000	644-1022-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-13.560000MHZ
14.318180	644-1023-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-14.318180MHZ
16.934400	644-1024-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-16.934400MHZ
18.432000	644-1025-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-18.432000MHZ
20.000000	644-1026-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-20.000000MHZ
24.000000	644-1027-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-24.000000MHZ
25.000000	644-1028-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-25.000000MHZ
27.000000	644-1029-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-27.000000MHZ
30.000000	644-1030-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-30.000000MHZ
32.000000	644-1031-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-32.000000MHZ
40.000000	644-1032-1-ND	.76	.66	.58	1,000	282.74	NX8045GB-40.000000MHZ
NX1255GB Series							
3.579545	644-1000-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-3.579545MHZ
4.000000	644-1001-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-4.000000MHZ
4.194304	644-1002-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-4.194304MHZ
6.000000	644-1004-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-6.000000MHZ
7.372800	644-1006-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-7.372800MHZ
8.000000	644-1007-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-8.000000MHZ
10.000000	644-1008-1-ND	.96	.82	.70	—	—	NX1255GB-10.000000MHZ
12.000000	644-1009-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-12.000000MHZ
12.288000	644-1010-1-ND	1.50	1.30	1.14	—	—	NX1255GB-12.288000MHZ
13.560000	644-1011-1-ND	1.50	1.30	1.14	—	—	NX1255GB-13.560000MHZ
16.000000	644-1013-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-16.000000MHZ
18.432000	644-1014-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-18.432000MHZ
20.000000	644-1015-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-20.000000MHZ
24.000000	644-1016-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-24.000000MHZ
25.000000	644-1017-1-ND	1.50	1.30	1.14	1,000	559.44	NX1255GB-25.000000MHZ
NEW! NX3225GA Series NEW!							
16.000	644-1157-1-ND	.94	.82	.72	1,000	349.27	NX3225GA-16.000M-STD-CRG-1
27.000	644-1158-1-ND	.94	.82	.72	1,000	349.27	NX3225GA-27.000M-STD-CRG-1

† For Tape and Reel part number, change 1-ND to 2-ND.

2765E Series Spread Spectrum SMT Oscillators

ELECTRICAL CHARACTERISTICS: • **Supply Voltage:** 3.3V ±0.3 • **Output Level:** CMOS • **Frequency Stability:** ±100ppm • **Current Consumption:** 30mA Maximum • **Current Consumption (Standby):** 30µA • **Operating Temperature:** -20°C ~ 70°C • **Rise Time/Fall Time:** 5nS Maximum • **Duty Cycle:** 40% ~ 60% at ½ VDD

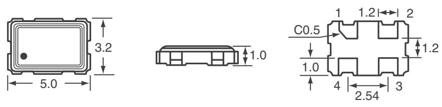

Pin	Connection
1	STAND-BY
2	GND
3	OUTPUT
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing † 1,000	NDK Part No.
25.00	644-1071-1-ND	5.67	4.92	3.41	—	2765E-25.000000MHZ
40.00	644-1073-1-ND	3.24	2.77	2.18	—	2765E-40.000000MHZ
50.00	644-1074-1-ND	4.77	4.14	2.87	—	2765E-50.000000MHZ
66.00	644-1075-1-ND	5.67	4.92	3.41	2116.80	2765E-66.000000MHZ
80.00	644-1077-1-ND	5.67	4.92	3.41	3024.00	2765E-80.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

Automotive Application Crystals

Frequency (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	NDK Part No.
Wide Temperature Range Automotive Applications							
12.00	8.0	644-1128-1-ND	1.50	1.30	1.14	559.44	NX3225SA 12MHZ AT-W
16.00	8.0	644-1129-1-ND	1.50	1.30	1.14	559.44	NX3225SA 16MHZ AT-W
20.00	8.0	644-1130-1-ND	1.50	1.30	1.14	559.44	NX3225SA 20MHZ AT-W
40.00	8.0	644-1131-1-ND	1.58	1.37	1.21	—	NX3225SA 40MHZ AT-W
8.00	8.0	644-1132-1-ND	1.70	1.48	1.30	635.04	NX5032GA 8MHZ AT-W
10.00	8.0	644-1133-1-ND	1.70	1.48	1.30	635.04	NX5032GA 10MHZ AT-W
12.00	8.0	644-1134-1-ND	1.70	1.48	1.30	635.04	NX5032GA 12MHZ AT-W
16.00	8.0	644-1135-1-ND	1.70	1.48	1.30	635.04	NX5032GA 16MHZ AT-W
20.00	8.0	644-1136-1-ND	1.70	1.48	1.30	635.04	NX5032GA 20MHZ AT-W
40.00	8.0	644-1137-1-ND	1.70	1.48	1.30	—	NX5032GA 40MHZ AT-W
4.00	8.0	644-1138-1-ND	1.50	1.30	1.14	559.44	NX8045GB 4MHZ AT-W
Automotive TPMS Applications							
9.84375	8.0	644-1139-1-ND	1.70	1.48	1.30	635.04	NX5032GA 9.84375MHZ AT-TPMS
13.56	8.0	644-1140-1-ND	1.70	1.48	1.30	—	NX5032GA 13.56MHZ AT-TPMS
9.84375	12.0	644-1141-1-ND	1.82	1.58	1.39	680.40	NX5032SD 9.84375MHZ AT-TPMS
13.56	12.0	644-1142-1-ND	1.82	1.58	1.39	680.40	NX5032SD 13.56MHZ AT-TPMS

† For Tape and Reel part number, change 1-ND to 2-ND.
Note: For additional specifications please reference the manufacturer's data sheets.

NT3225SA Series SMT TCXO

ELECTRICAL CHARACTERISTICS: • **Supply Voltage:** 3.0VDC • **Load:** 10KΩ/ 10pF • **Current Consumption:** 1.5mA Maximum • **Frequency Stability:** ±2.5ppm • **Operating Temperature:** -30°C ~ 75°C • **Output Voltage:** 0.8V(P-P), DC Coupling • **AFC:** ±9ppm ~ ±15ppm/ 1.5V ±1V

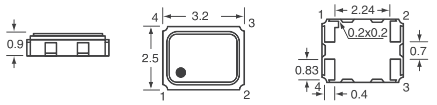

Pin	Connection
1	VCONT
2	GND
3	OUTPUT
4	VCC

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 2,000	NDK Part No.
13.00	644-1086-1-ND	4.21	3.65	3.20	1627.08/M	NT3225SA-13.000000MHZ
19.20	644-1087-1-ND	4.21	3.65	3.20	1570.97/M	NT3225SA-19.200000MHZ
19.68	644-1088-1-ND	4.21	3.65	3.20	1570.97/M	NT3225SA-19.680000MHZ
26.00	644-1089-1-ND	4.21	3.65	3.20	1570.97/M	NT3225SA-26.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NZ2520SB Series SMT Oscillators

ELECTRICAL CHARACTERISTICS: • **Supply Voltage:** 3.0V • **Output Level:** CMOS • **Frequency Stability:** ±30ppm • **Current Consumption:** 6mA Maximum • **Current Consumption (Standby):** 10µA • **Operating Temperature:** -10°C ~ 60°C • **Rise Time/Fall Time:** 5nS Maximum • **Duty Cycle:** 45% ~ 55%

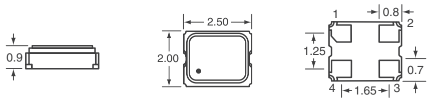

Pin	Connection
1	STAND-BY
2	GND
3	OUTPUT
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing † 3,000	NDK Part No.
2.75	644-1143-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-2.750000MHZ
5.00	644-1145-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-5.000000MHZ
7.60	644-1144-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-7.600000MHZ
10.00	644-1146-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-10.000000MHZ
19.20	644-1147-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-19.200MHZ
20.00	644-1148-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-20.000000MHZ
22.00	644-1149-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-22.000000MHZ
25.60	644-1150-1-ND	3.01	2.61	1.81	1081.84/M	NZ2520SB-25.600MHZ
40.00	644-1152-1-ND	3.11	2.70	1.87	1119.75/M	NZ2520SB-40.000000MHZ
41.36	644-1153-1-ND	3.11	2.70	1.87	1119.75/M	NZ2520SB-41.360MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

Chip Set TCXOs and Crystals

Type	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	NDK Part No.	Compatible Chip Sets and Applications
TCXO	26.00	644-1113-1-ND	4.21	3.65	3.20	1,000	1570.97	NT2520SA-26.000000MHZ-A1	NXP (Philips), GSM
	19.20	644-1111-1-ND	4.21	3.65	3.20	—	—	NT3225SA-19.200000MHZ-T3	QUALCOM, CDMA (MSM6000)
	19.20	644-1090-1-ND	4.21	3.65	3.20	1,000	1570.97	NT3225SA-19.200000MHZ-T2	NXP (Philips), TV ON MOBILE
	26.00	644-1091-1-ND	4.21	3.65	3.20	1,000	1570.97	NT3225SA-26.000000MHZ-G5	NXP (Philips), 3G UMTS/CDMA
	26.00	644-1092-1-ND	4.21	3.65	3.20	—	—	NT3225SA-26.000000MHZ-G7	ADI, GSM
	26.00	644-1110-1-ND	4.21	3.65	3.20	1,000	1570.97	NT3225SA-26.000000MHZ-G8	ADI, GSM (AD6548)
Crystal	26.00	644-1161-1-ND ***NEW!***	1.94	1.69	1.48	1,000	725.76	NX1612AA-26MHZ-TI2	Texas Instruments, (BL6450) Bluetooth + FM
	16.00	644-1093-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-16.000000MHZ-W1	FREESCALE, ZIGBEE
	24.00	644-1094-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-24.000000MHZ-B8	NXP (Philips), Bluetooth
	26.00	644-1095-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-26.000000MHZ-B9	NXP (Philips), Bluetooth
	40.00	644-1096-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-40.000000MHZ-W2	STEPMIND, WLAN-WIFI
	40.00	644-1097-1-ND	2.30	1.99	1.75	3,000	826.69/M	NX2520SA-40.000000MHZ-W3	NXP (Philips), WLAN-WIFI
	16.00	644-1099-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-16.000000MHZ-B3	Cambridge Silicon Radio, Bluetooth
	16.00	644-1100-1-ND	4.21	3.65	3.20	3,000	468.02/M	NX3225SA-16.000000MHZ-T1	NXP (Philips), TV ON MOBILE
	20.00	644-1098-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-20.000000MHZ-B2	Cambridge Silicon Radio, Bluetooth
	26.00	644-1160-1-ND ***NEW!***	.94	.82	.72	1,000	349.27	NX3225GA-26MHZ-TI	Texas Instruments, (CC430 Family) Ultra Low-Power Microcontrollers Texas Instruments, (CC1101) Zigbee
	26.00	644-1101-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-26.000000MHZ-B1	Broadcom, Bluetooth
	26.00	644-1109-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-26.000000MHZ-G2	Atheros, GSM
	26.00	644-1102-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-26.000000MHZ-G3	Atheros, GSM
	26.00	644-1103-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-26.000000MHZ-G4	INFINEON, GSM
	39.00	644-1104-1-ND	1.30	1.13	.99	3,000	468.02/M	NX3225SA-39.000000MHZ-B4	XEMICS-SEMTECH, Bluetooth
	13.00	644-1105-1-ND	1.66	1.44	1.27	3,000	597.78/M	NX4025DA-13.000000MHZ-B6	NXP (Philips), Bluetooth
	15.36	644-1106-1-ND	1.66	1.44	1.27	—	—	NX4025DA-15.360000MHZ-B7	FREESCALE, Bluetooth
	16.00	644-1107-1-ND	1.66	1.44	1.27	3,000	597.78/M	NX4025DA-16.000000MHZ-B5	Cambridge Silicon Radio, Bluetooth
	13.00	644-1108-1-ND	1.34	1.16	1.02	1,000	463.32	NX5032SA-13.000000MHZ-G1	Atheros, GSM

† For Tape and Reel part number, change 1-ND to 2-ND. ***Note:*** For additional specifications please reference the manufacturer's data sheets.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TXC

9C, 7A, 7B, 7M, 8Z and 8Y Series SMD Crystals

RoHS COMPLIANT

Digi-Reel®

Series	Frequency Stability Over Temp	Freq. Tolerance @ 25°C	Operating Temperature	Load Cap.	Shunt Cap.	Drive Level (Max.)
9C-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	7pF	500μW
9C-XXXXMEEJ-T	±10ppm (-20°C ~ 70°C)	±10ppm	-40°C ~ 85°C	18pF	7pF	500μW
7A-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	5pF	200μW
7B-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	5pF	100μW
7B-XXXXMEEQ-T	±10ppm (-20°C ~ 70°C)	±10ppm	-40°C ~ 85°C	10pF	5pF	100μW
7M-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	3pF	50μW
7M-XXXXMEEQ-T	±10ppm (-20°C ~ 70°C)	±10ppm	-40°C ~ 85°C	10pF	3pF	50μW
8Z-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	3pF	100μW
8Z-XXXXMEEQ-T	±10ppm (-20°C ~ 70°C)	±10ppm	-40°C ~ 85°C	10pF	3pF	100μW
8Y-XXXXMAAJ-T	±30ppm (-20°C ~ 70°C)	±30ppm	-40°C ~ 85°C	18pF	3pF	200μW
8Y-XXXXMEEQ-T	±10ppm (-20°C ~ 70°C)	±10ppm	-40°C ~ 85°C	10pF	3pF	200μW

Mode of Operation:	9C Series ≤30.00MHz Fundamental Mode, >30.00MHz Third Overtone 7A, 7B, 7M, 8Z and 8Y Series are all Fundamental Mode

Dimensions in mm

Fig. 1

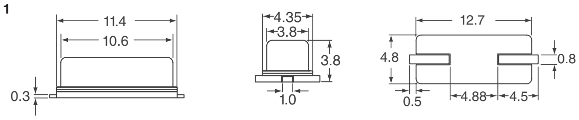

Fig. 2

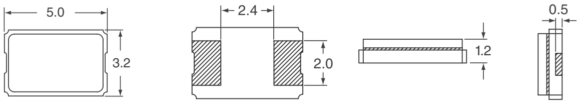

Fig. 3

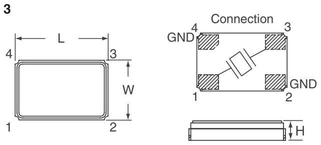

Series	Dimensions - mm L	W	H
7B	5.0	3.2	0.9
7M	3.2	2.5	0.7
8Z	2.5	2.0	0.55
8Y	2.0	1.6	0.5

Fig.	Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		TXC Part No.
			1	10	50	Qty.	Pricing	
9C-XXXXMAAJ-T Series								
1	3.579545	887-1040-1-ND	.53	.46	.40	1,000	196.00	9C-3.579545MAAJ-T
	3.6864	887-1041-1-ND	.53	.46	.40	1,000	196.00	9C-3.6864MAAJ-T
	4.000	887-1042-1-ND	.53	.46	.40	1,000	196.00	9C-4.000MAAJ-T
	4.096	887-1043-1-ND	.53	.46	.40	1,000	196.00	9C-4.096MAAJ-T
	4.9152	887-1044-1-ND	.53	.46	.40	1,000	196.00	9C-4.9152MAAJ-T
	6.000	887-1045-1-ND	.53	.46	.40	1,000	196.00	9C-6.000MAAJ-T
	7.3728	887-1046-1-ND	.53	.46	.40	1,000	196.00	9C-7.3728MAAJ-T
	7.680	887-1047-1-ND	.53	.46	.40	1,000	196.00	9C-7.680MAAJ-T
	8.000	887-1048-1-ND	.53	.46	.40	1,000	196.00	9C-8.000MAAJ-T
	8.192	887-1417-1-ND ***NEW!***	.53	.46	.40	1,000	196.00	9C-8.192MAAJ-T
	8.912	887-1049-1-ND	.53	.46	.40	1,000	196.00	9C-8.912MAAJ-T
	10.000	887-1050-1-ND	.53	.46	.40	1,000	196.00	9C-10.000MAAJ-T
	11.0592	887-1051-1-ND	.53	.46	.40	1,000	196.00	9C-11.0592MAAJ-T
	11.2896	887-1052-1-ND	.53	.46	.40	1,000	196.00	9C-11.2896MAAJ-T
	12.000	887-1053-1-ND	.53	.46	.40	1,000	196.00	9C-12.000MAAJ-T
	12.288	887-1054-1-ND	.53	.46	.40	1,000	196.00	9C-12.288MAAJ-T
	13.560	887-1055-1-ND	.53	.46	.40	1,000	196.00	9C-13.560MAAJ-T
	14.31818	887-1056-1-ND	.53	.46	.40	1,000	196.00	9C-14.31818MAAJ-T
	14.7456	887-1057-1-ND	.53	.46	.40	1,000	196.00	9C-14.7456MAAJ-T
	15.360	887-1058-1-ND	.53	.46	.40	1,000	196.00	9C-15.360MAAJ-T
	16.000	887-1059-1-ND	.53	.46	.40	1,000	196.00	9C-16.000MAAJ-T
	16.384	887-1060-1-ND	.53	.46	.40	1,000	196.00	9C-16.384MAAJ-T
	18.432	887-1061-1-ND	.53	.46	.40	1,000	196.00	9C-18.432MAAJ-T
	19.200	887-1062-1-ND	.53	.46	.40	1,000	196.00	9C-19.200MAAJ-T
	20.000	887-1063-1-ND	.53	.46	.40	1,000	196.00	9C-20.000MAAJ-T
	22.000	887-1064-1-ND	.53	.46	.40	1,000	196.00	9C-22.000MAAJ-T
	22.1184	887-1065-1-ND	.53	.46	.40	1,000	196.00	9C-22.1184MAAJ-T
	24.000	887-1066-1-ND	.53	.46	.40	1,000	196.00	9C-24.000MAAJ-T
	24.576	887-1067-1-ND	.53	.46	.40	1,000	196.00	9C-24.576MAAJ-T
	25.000	887-1068-1-ND	.53	.46	.40	1,000	196.00	9C-25.000MAAJ-T
	26.000	887-1069-1-ND	.53	.46	.40	1,000	196.00	9C-26.000MAAJ-T
	27.000	887-1070-1-ND	.53	.46	.40	1,000	196.00	9C-27.000MAAJ-T
	28.63636	887-1071-1-ND	.53	.46	.40	1,000	196.00	9C-28.63636MAAJ-T
	30.000	887-1072-1-ND	.53	.46	.40	1,000	196.00	9C-30.000MAAJ-T
	35.328	887-1073-1-ND	.53	.46	.40	1,000	196.00	9C-35.328MAAJ-T
	36.000	887-1074-1-ND	.53	.46	.40	1,000	196.00	9C-36.000MAAJ-T
	48.000	887-1075-1-ND	.53	.46	.40	1,000	196.00	9C-48.000MAAJ-T
	50.000	887-1076-1-ND	.53	.46	.40	1,000	196.00	9C-50.000MAAJ-T
	54.000	887-1077-1-ND	.68	.59	.52	1,000	252.00	9C-54.000MAAJ-T
	60.000	887-1078-1-ND	.68	.59	.52	1,000	252.00	9C-60.000MAAJ-T
	64.000	887-1079-1-ND	.68	.59	.52	1,000	252.00	9C-64.000MAAJ-T
NEW! 9C-XXXXMEEJ-T Series NEW!								
1	8.000	887-1263-1-ND	.68	.59	.52	1,000	252.00	9C-8.000MEEJ-T
	8.192	887-1264-1-ND	.68	.59	.52	1,000	252.00	9C-8.192MEEJ-T
	10.000	887-1265-1-ND	.68	.59	.52	1,000	252.00	9C-10.000MEEJ-T
	11.0592	887-1266-1-ND	.68	.59	.52	1,000	252.00	9C-11.0592MEEJ-T
	11.2896	887-1267-1-ND	.68	.59	.52	1,000	252.00	9C-11.2896MEEJ-T
	12.000	887-1268-1-ND	.68	.59	.52	1,000	252.00	9C-12.000MEEJ-T
	12.288	887-1269-1-ND	.68	.59	.52	1,000	252.00	9C-12.288MEEJ-T
	13.560	887-1270-1-ND	.68	.59	.52	1,000	252.00	9C-13.560MEEJ-T
	14.31818	887-1271-1-ND	.68	.59	.52	1,000	252.00	9C-14.31818MEEJ-T
	14.7456	887-1272-1-ND	.68	.59	.52	1,000	252.00	9C-14.7456MEEJ-T
	15.360	887-1273-1-ND	.68	.59	.52	1,000	252.00	9C-15.360MEEJ-T
	16.000	887-1274-1-ND	.68	.59	.52	1,000	252.00	9C-16.000MEEJ-T
	16.384	887-1275-1-ND	.68	.59	.52	1,000	252.00	9C-16.384MEEJ-T
	18.432	887-1276-1-ND	.68	.59	.52	1,000	252.00	9C-18.432MEEJ-T
	19.200	887-1277-1-ND	.68	.59	.52	1,000	252.00	9C-19.200MEEJ-T
	20.000	887-1278-1-ND	.68	.59	.52	1,000	252.00	9C-20.000MEEJ-T
	22.000	887-1279-1-ND	.68	.59	.52	1,000	252.00	9C-22.000MEEJ-T
	22.1184	887-1280-1-ND	.68	.59	.52	1,000	252.00	9C-22.1184MEEJ-T
	24.000	887-1281-1-ND	.68	.59	.52	1,000	252.00	9C-24.000MEEJ-T
	24.576	887-1282-1-ND	.68	.59	.52	1,000	252.00	9C-24.576MEEJ-T
	25.000	887-1283-1-ND	.68	.59	.52	1,000	252.00	9C-25.000MEEJ-T
	26.000	887-1284-1-ND	.68	.59	.52	1,000	252.00	9C-26.000MEEJ-T
	27.000	887-1285-1-ND	.68	.59	.52	1,000	252.00	9C-27.000MEEJ-T
	28.63636	887-1286-1-ND	.68	.59	.52	1,000	252.00	9C-28.63636MEEJ-T
	30.000	887-1287-1-ND	.68	.59	.52	1,000	252.00	9C-30.000MEEJ-T
	35.328	887-1288-1-ND	.83	.72	.63	1,000	308.00	9C-35.328MEEJ-T
	36.000	887-1289-1-ND	.83	.72	.63	1,000	308.00	9C-36.000MEEJ-T
	48.000	887-1290-1-ND	.83	.72	.63	1,000	308.00	9C-48.000MEEJ-T
	50.000	887-1291-1-ND	.83	.72	.63	1,000	308.00	9C-50.000MEEJ-T
7A-XXXXMAAJ-T Series								
2	10.000	887-1080-1-ND	.94	.82	.72	1,000	350.00	7A-10.000MAAJ-T
	12.000	887-1081-1-ND	.94	.82	.72	1,000	350.00	7A-12.000MAAJ-T
	12.288	887-1082-1-ND	.94	.82	.72	1,000	350.00	7A-12.288MAAJ-T
	13.560	887-1083-1-ND	.94	.82	.72	1,000	350.00	7A-13.560MAAJ-T
	14.31818	887-1084-1-ND	.94	.82	.72	1,000	350.00	7A-14.31818MAAJ-T
	14.7456	887-1085-1-ND	.94	.82	.72	1,000	350.00	7A-14.7456MAAJ-T
	16.000	887-1086-1-ND	.94	.82	.72	1,000	350.00	7A-16.000MAAJ-T
	16.9344	887-1087-1-ND	.94	.82	.72	1,000	350.00	7A-16.9344MAAJ-T
	18.432	887-1088-1-ND	.94	.82	.72	1,000	350.00	7A-18.432MAAJ-T
	20.000	887-1089-1-ND	.94	.82	.72	1,000	350.00	7A-20.000MAAJ-T
	22.1184	887-1418-1-ND ***NEW!***	.94	.82	.72	1,000	350.00	7A-22.1184MAAJ-T
	24.000	887-1090-1-ND	.94	.82	.72	1,000	350.00	7A-24.000MAAJ-T
	24.576	887-1091-1-ND	.94	.82	.72	1,000	350.00	7A-24.576MAAJ-T
	25.000	887-1092-1-ND	.94	.82	.72	1,000	350.00	7A-25.000MAAJ-T
	27.000	887-1093-1-ND	.94	.82	.72	1,000	350.00	7A-27.000MAAJ-T
	27.120	887-1419-1-ND ***NEW!***	.94	.82	.72	1,000	350.00	7A-27.120MAAJ-T
	28.63636	887-1094-1-ND	.94	.82	.72	1,000	350.00	7A-28.63636MAAJ-T
	30.000	887-1095-1-ND	.94	.82	.72	1,000	350.00	7A-30.000MAAJ-T
	36.000	887-1096-1-ND	.94	.82	.72	1,000	350.00	7A-36.000MAAJ-T
	48.000	887-1097-1-ND	.94	.82	.72	1,000	350.00	7A-48.000MAAJ-T
7B-XXXXMAAJ-T Series								
3	11.0592	887-1098-1-ND	1.13	.98	.86	1,000	420.00	7B-11.0592MAAJ-T
	12.000	887-1099-1-ND	1.13	.98	.86	1,000	420.00	7B-12.000MAAJ-T
	12.288	887-1100-1-ND	1.13	.98	.86	1,000	420.00	7B-12.288MAAJ-T
	13.000	887-1101-1-ND	1.13	.98	.86	1,000	420.00	7B-13.000MAAJ-T
	13.560	887-1420-1-ND ***NEW!***	1.13	.98	.86	1,000	420.00	7B-13.560MAAJ-T
	14.31818	887-1102-1-ND	1.13	.98	.86	1,000	420.00	7B-14.31818MAAJ-T
	14.7456	887-1103-1-ND	1.13	.98	.86	1,000	420.00	7B-14.7456MAAJ-T
	16.000	887-1104-1-ND	1.13	.98	.86	1,000	420.00	7B-16.000MAAJ-T
	16.384	887-1105-1-ND	1.13	.98	.86	1,000	420.00	7B-16.384MAAJ-T
	16.9344	887-1106-1-ND	1.13	.98	.86	1,000	420.00	7B-16.9344MAAJ-T
	18.432	887-1107-1-ND	1.13	.98	.86	1,000	420.00	7B-18.432MAAJ-T
	19.200	887-1108-1-ND	1.13	.98	.86	1,000	420.00	7B-19.200MAAJ-T
	20.000	887-1109-1-ND	1.13	.98	.86	1,000	420.00	7B-20.000MAAJ-T
	24.000	887-1110-1-ND	1.13	.98	.86	1,000	420.00	7B-24.000MAAJ-T
	24.576	887-1111-1-ND	1.13	.98	.86	1,000	420.00	7B-24.576MAAJ-T
	25.000	887-1112-1-ND	1.13	.98	.86	1,000	420.00	7B-25.000MAAJ-T
	26.000	887-1113-1-ND	1.13	.98	.86	1,000	420.00	7B-26.000MAAJ-T
	27.000	887-1114-1-ND	1.13	.98	.86	1,000	420.00	7B-27.000MAAJ-T
	27.120	887-1421-1-ND ***NEW!***	1.13	.98	.86	1,000	420.00	7B-27.120MAAJ-T
	28.63636	887-1115-1-ND	1.13	.98	.86	1,000	420.00	7B-28.63636MAAJ-T
	30.000	887-1116-1-ND	1.13	.98	.86	1,000	420.00	7B-30.000MAAJ-T
	32.000	887-1117-1-ND	1.13	.98	.86	1,000	420.00	7B-32.000MAAJ-T
	36.000	887-1118-1-ND	1.13	.98	.86	1,000	420.00	7B-36.000MAAJ-T
	40.000	887-1119-1-ND	1.13	.98	.86	1,000	420.00	7B-40.000MAAJ-T
	48.000	887-1120-1-ND	1.13	.98	.86	1,000	420.00	7B-48.000MAAJ-T
NEW! 7B-XXXXMEEQ-T Series NEW!								
3	12.000	887-1292-1-ND	1.50	1.30	1.14	1,000	560.00	7B-12.000MEEQ-T
	12.288	887-1293-1-ND	1.50	1.30	1.14	1,000	560.00	7B-12.288MEEQ-T
	13.000	887-1294-1-ND	1.50	1.30	1.14	1,000	560.00	7B-13.000MEEQ-T
	13.560	887-1295-1-ND	1.50	1.30	1.14	1,000	560.00	7B-13.560MEEQ-T
	14.31818	887-1296-1-ND	1.50	1.30	1.14	1,000	560.00	7B-14.31818MEEQ-T
	14.7456	887-1297-1-ND	1.50	1.30	1.14	1,000	560.00	7B-14.7456MEEQ-T
	16.000	887-1298-1-ND	1.50	1.30	1.14	1,000	560.00	7B-16.000MEEQ-T
	16.384	887-1299-1-ND	1.50	1.30	1.14	1,000	560.00	7B-16.384MEEQ-T
	16.9344	887-1300-1-ND	1.50	1.30	1.14	1,000	560.00	7B-16.9344MEEQ-T
	18.432	887-1301-1-ND	1.50	1.30	1.14	1,000	560.00	7B-18.432MEEQ-T
	19.200	887-1302-1-ND	1.50	1.30	1.14	1,000	560.00	7B-19.200MEEQ-T
	20.000	887-1303-1-ND	1.50	1.30	1.14	1,000	560.00	7B-20.000MEEQ-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

TXC

9C, 7A, 7B, 7M, 8Z and 8Y Series SMD Crystals *(Cont.)*

Fig.	Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel‡ Qty.	Pricing	TXC Part No.
3	24.000	887-1304-1-ND	1.50	1.30	1.14	1,000	560.00	7B-24.000MEEQ-T
	24.576	887-1305-1-ND	1.50	1.30	1.14	1,000	560.00	7B-24.576MEEQ-T
	25.000	887-1306-1-ND	1.50	1.30	1.14	1,000	560.00	7B-25.000MEEQ-T
	26.000	887-1307-1-ND	1.50	1.30	1.14	1,000	560.00	7B-26.000MEEQ-T
	27.000	887-1308-1-ND	1.50	1.30	1.14	1,000	560.00	7B-27.000MEEQ-T
	27.120	887-1309-1-ND	1.50	1.30	1.14	1,000	560.00	7B-27.120MEEQ-T
	28.63636	887-1310-1-ND	1.50	1.30	1.14	1,000	560.00	7B-28.63636MEEQ-T
	30.000	887-1311-1-ND	1.50	1.30	1.14	1,000	560.00	7B-30.000MEEQ-T
	32.000	887-1312-1-ND	1.50	1.30	1.14	1,000	560.00	7B-32.000MEEQ-T
	36.000	887-1313-1-ND	1.50	1.30	1.14	1,000	560.00	7B-36.000MEEQ-T
	40.000	887-1314-1-ND	1.50	1.30	1.14	1,000	560.00	7B-40.000MEEQ-T
	48.000	887-1315-1-ND	1.50	1.30	1.14	1,000	560.00	7B-48.000MEEQ-T
7M-XXXXMAAJ-T Series								
3	12.000	887-1121-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-12.000MAAJ-T
	12.288	887-1122-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-12.288MAAJ-T
	13.000	887-1123-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-13.000MAAJ-T
	13.560	887-1422-1-ND ***NEW!***	1.31	1.14	1.00	3,000	472.50/M	7M-13.560MAAJ-T
	14.31818	887-1124-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-14.31818MAAJ-T
	16.000	887-1125-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-16.000MAAJ-T
	16.384	887-1126-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-16.384MAAJ-T
	16.9344	887-1127-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-16.9344MAAJ-T
	18.432	887-1423-1-ND ***NEW!***	1.31	1.14	1.00	3,000	472.50/M	7M-18.432MAAJ-T
	19.200	887-1128-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-19.200MAAJ-T
	20.000	887-1129-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-20.000MAAJ-T
	24.000	887-1130-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-24.000MAAJ-T
	24.576	887-1131-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-24.576MAAJ-T
	25.000	887-1132-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-25.000MAAJ-T
	26.000	887-1133-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-26.000MAAJ-T
	27.000	887-1134-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-27.000MAAJ-T
	27.120	887-1424-1-ND ***NEW!***	1.31	1.14	1.00	3,000	472.50/M	7M-27.120MAAJ-T
	30.000	887-1135-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-30.000MAAJ-T
	32.000	887-1136-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-32.000MAAJ-T
	36.000	887-1137-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-36.000MAAJ-T
	38.400	887-1138-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-38.400MAAJ-T
	40.000	887-1139-1-ND	1.31	1.14	1.00	3,000	472.50/M	7M-40.000MAAJ-T
	48.000	887-1140-1-ND	1.50	1.30	1.14	3,000	540.00/M	7M-48.000MAAJ-T
NEW! 7M-XXXXMEEQ-T Series NEW!								
3	12.000	887-1316-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-12.000MEEQ-T
	12.288	887-1317-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-12.288MEEQ-T
	13.560	887-1318-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-13.560MEEQ-T
	16.000	887-1319-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-16.000MEEQ-T
	16.384	887-1320-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-16.384MEEQ-T
	18.432	887-1321-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-18.432MEEQ-T
	19.200	887-1322-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-19.200MEEQ-T
	20.000	887-1323-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-20.000MEEQ-T
	24.000	887-1324-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-24.000MEEQ-T
	24.576	887-1325-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-24.576MEEQ-T
	25.000	887-1326-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-25.000MEEQ-T
	26.000	887-1327-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-26.000MEEQ-T
	27.000	887-1328-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-27.000MEEQ-T
	27.120	887-1329-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-27.120MEEQ-T
	30.000	887-1330-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-30.000MEEQ-T
	32.000	887-1331-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-32.000MEEQ-T
	36.000	887-1332-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-36.000MEEQ-T
	38.400	887-1333-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-38.400MEEQ-T
	40.000	887-1334-1-ND	1.69	1.47	1.29	3,000	607.50/M	7M-40.000MEEQ-T
	48.000	887-1335-1-ND	1.88	1.63	1.43	3,000	675.00/M	7M-48.000MEEQ-T
8Z-XXXXMAAJ-T Series								
3	14.31818	887-1141-1-ND	2.25	1.95	1.71	3,000	810.00/M	8Z-14.31818MAAJ-T
	16.000	887-1142-1-ND	2.25	1.95	1.71	3,000	810.00/M	8Z-16.000MAAJ-T
	20.000	887-1143-1-ND	2.25	1.95	1.71	3,000	810.00/M	8Z-20.000MAAJ-T
	24.000	887-1144-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-24.000MAAJ-T
	25.000	887-1145-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-25.000MAAJ-T
	26.000	887-1146-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-26.000MAAJ-T
	27.000	887-1147-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-27.000MAAJ-T
	38.400	887-1148-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-38.400MAAJ-T
	40.000	887-1149-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-40.000MAAJ-T
	48.000	887-1150-1-ND	2.06	1.79	1.57	3,000	742.50/M	8Z-48.000MAAJ-T
NEW! 8Z-XXXXMEEQ-T Series NEW!								
3	16.000	887-1336-1-ND	2.81	2.44	2.14	3,000	1012.50/M	8Z-16.000MEEQ-T
	20.000	887-1337-1-ND	2.81	2.44	2.14	3,000	1012.50/M	8Z-20.000MEEQ-T
	24.000	887-1338-1-ND	2.81	2.44	2.14	3,000	1012.50/M	8Z-24.000MEEQ-T
	25.000	887-1339-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-25.000MEEQ-T
	26.000	887-1340-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-26.000MEEQ-T
	27.000	887-1341-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-27.000MEEQ-T
	38.400	887-1342-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-38.400MEEQ-T
	40.000	887-1343-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-40.000MEEQ-T
	48.000	887-1344-1-ND	2.63	2.28	2.00	3,000	945.00/M	8Z-48.000MEEQ-T
8Y-XXXXMAAJ-T Series								
3	24.000	887-1151-1-ND	2.44	2.12	1.86	3,000	877.50/M	8Y-24.000MAAJ-T
	26.000	887-1152-1-ND	2.44	2.12	1.86	3,000	877.50/M	8Y-26.000MAAJ-T
	38.400	887-1153-1-ND	2.44	2.12	1.86	3,000	877.50/M	8Y-38.400MAAJ-T
NEW! 8Y-XXXXMEEQ-T Series NEW!								
3	24.000	887-1345-1-ND	3.00	2.60	2.28	3,000	1080.00/M	8Y-24.000MEEQ-T
	26.000	887-1346-1-ND	3.00	2.60	2.28	3,000	1080.00/M	8Y-26.000MEEQ-T
	38.400	887-1347-1-ND	3.00	2.60	2.28	3,000	1080.00/M	8Y-38.400MEEQ-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

9B Series HC-49US Crystals

Dimensions in mm

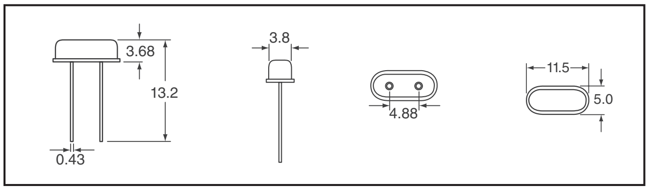

Series	Frequency Stability Over Temp	Freq. Tolerance @ 25°C	Operating Temperature	Load Cap.	Shunt Cap.	Drive Level (Max.)
9B-XXXXMAAJ-B	±30ppm (-20°C ~ 70°C)	±30ppm	-20°C ~ 70°C	18pF	7pF	500µW
9B-XXXXMEEJ-B	±10ppm (-20°C ~ 70°C)	±10ppm	-20°C ~ 70°C	18pF	7pF	500µW

Freq. (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	500	750	TXC Part No.
9B-XXXXMAAJ-B Series								
3.579545	887-1000-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-3.579545MAAJ-B
3.6864	887-1001-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-3.6864MAAJ-B
4.000	887-1002-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-4.000MAAJ-B
4.096	887-1003-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-4.096MAAJ-B
4.9152	887-1004-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-4.9152MAAJ-B
6.000	887-1005-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-6.000MAAJ-B
7.3728	887-1006-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-7.3728MAAJ-B
7.680	887-1007-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-7.680MAAJ-B
8.000	887-1008-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-8.000MAAJ-B
8.192	887-1262-ND ***NEW!***	.46	3.90	16.25	26.00	107.90	146.25	9B-8.192MAAJ-B
8.912	887-1009-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-8.912MAAJ-B
10.000	887-1010-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-10.000MAAJ-B
11.0592	887-1011-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-11.0592MAAJ-B
11.2896	887-1012-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-11.2896MAAJ-B
12.000	887-1013-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-12.000MAAJ-B
12.288	887-1014-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-12.288MAAJ-B
13.560	887-1015-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-13.560MAAJ-B
14.31818	887-1016-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-14.31818MAAJ-B
14.7456	887-1017-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-14.7456MAAJ-B
15.360	887-1018-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-15.360MAAJ-B
16.000	887-1019-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-16.000MAAJ-B
16.384	887-1020-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-16.384MAAJ-B
18.432	887-1021-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-18.432MAAJ-B
19.200	887-1022-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-19.200MAAJ-B
20.000	887-1023-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-20.000MAAJ-B
22.000	887-1024-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-22.000MAAJ-B
22.1184	887-1025-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-22.1184MAAJ-B
24.000	887-1026-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-24.000MAAJ-B
24.576	887-1027-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-24.576MAAJ-B
25.000	887-1028-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-25.000MAAJ-B
26.000	887-1029-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-26.000MAAJ-B
27.000	887-1030-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-27.000MAAJ-B
28.63636	887-1031-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-28.63636MAAJ-B
30.000	887-1032-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-30.000MAAJ-B
35.328	887-1033-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-35.328MAAJ-B
36.000	887-1034-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-36.000MAAJ-B
48.000	887-1035-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-48.000MAAJ-B
50.000	887-1036-ND	.46	3.90	16.25	26.00	107.90	146.25	9B-50.000MAAJ-B
54.000	887-1037-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-54.000MAAJ-B
60.000	887-1038-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-60.000MAAJ-B
64.000	887-1039-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-64.000MAAJ-B
NEW! 9B-XXXXMEEJ-B Series NEW!								
8.000	887-1233-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-8.000MEEJ-B
8.192	887-1234-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-8.192MEEJ-B
10.000	887-1235-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-10.000MEEJ-B
11.0592	887-1236-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-11.0592MEEJ-B
11.2896	887-1237-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-11.2896MEEJ-B
12.000	887-1238-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-12.000MEEJ-B
12.288	887-1239-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-12.288MEEJ-B
13.560	887-1240-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-13.560MEEJ-B
14.31818	887-1241-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-14.31818MEEJ-B
14.7456	887-1242-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-14.7456MEEJ-B
15.360	887-1243-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-15.360MEEJ-B
16.000	887-1244-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-16.000MEEJ-B
16.384	887-1245-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-16.384MEEJ-B
18.432	887-1246-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-18.432MEEJ-B
19.200	887-1247-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-19.200MEEJ-B
20.000	887-1248-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-20.000MEEJ-B
22.000	887-1249-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-22.000MEEJ-B
22.1184	887-1250-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-22.1184MEEJ-B
24.000	887-1251-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-24.000MEEJ-B
24.576	887-1252-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-24.576MEEJ-B
25.000	887-1253-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-25.000MEEJ-B
26.000	887-1254-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-26.000MEEJ-B
27.000	887-1255-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-27.000MEEJ-B
28.63636	887-1256-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-28.63636MEEJ-B
30.000	887-1257-ND	.56	4.80	20.00	32.00	132.80	180.00	9B-30.000MEEJ-B
35.328	887-1258-ND	.67	5.70	23.75	38.00	157.70	213.75	9B-35.328MEEJ-B
36.000	887-1259-ND	.67	5.70	23.75	38.00	157.70	213.75	9B-36.000MEEJ-B
48.000	887-1260-ND	.67	5.70	23.75	38.00	157.70	213.75	9B-48.000MEEJ-B
50.000	887-1261-ND	.67	5.70	23.75	38.00	157.70	213.75	9B-50.000MEEJ-B

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TXC 7W, 7C, 7X and 8W Series SMT Oscillators

Series	Dimensions - mm L	W	H
7W	7.0	5.0	1.3
7C	5.0	3.2	1.2
7X	3.2	2.5	1.0
8W	2.5	2.0	0.80

Operating Temperature: -40°C ~ 85°C

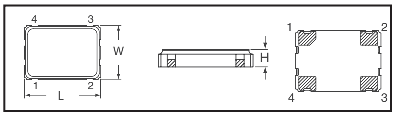

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	500	Tape and Reel‡ Qty.	Pricing	TXC Part No.
7W-XXXXMBB-T Series 3.3V ±50ppm @ (-20°C ~ 70°C)									
1.544	887-1154-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-1.544MBB-T
1.8432	887-1155-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-1.8432MBB-T
3.6864	887-1156-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-3.6864MBB-T
4.000	887-1157-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-4.000MBB-T
4.096	887-1158-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-4.096MBB-T
6.000	887-1159-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-6.000MBB-T
7.3728	887-1160-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-7.3728MBB-T
8.000	887-1161-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-8.000MBB-T
8.192	887-1162-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-8.192MBB-T
10.000	887-1163-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-10.000MBB-T
12.000	887-1164-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-12.000MBB-T
12.288	887-1165-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-12.288MBB-T
14.31818	887-1166-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-14.31818MBB-T
14.7456	887-1167-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-14.7456MBB-T
16.000	887-1168-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-16.000MBB-T
16.384	887-1169-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-16.384MBB-T
18.432	887-1170-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-18.432MBB-T
20.000	887-1171-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-20.000MBB-T
24.000	887-1172-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-24.000MBB-T
24.576	887-1173-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-24.576MBB-T
25.000	887-1174-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-25.000MBB-T
27.000	887-1175-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-27.000MBB-T
30.000	887-1176-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-30.000MBB-T
32.000	887-1177-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-32.000MBB-T
32.768	887-1178-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-32.768MBB-T
33.3333	887-1179-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-33.3333MBB-T
35.328	887-1180-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-35.328MBB-T
36.000	887-1181-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-36.000MBB-T
40.000	887-1182-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-40.000MBB-T
48.000	887-1183-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-48.000MBB-T
49.152	887-1184-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-49.152MBB-T
50.000	887-1185-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-50.000MBB-T
60.000	887-1186-1-ND	2.63	2.28	2.00	1.58	1.33	1,000	980.00	7W-60.000MBB-T
66.6666	887-1187-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7W-66.6666MBB-T
75.000	887-1188-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7W-75.000MBB-T
80.000	887-1189-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7W-80.000MBB-T
100.000	887-1190-1-ND	4.69	4.07	3.57	2.82	2.38	1,000	1750.00	7W-100.000MBB-T
106.250	887-1191-1-ND	4.69	4.07	3.57	2.82	2.38	1,000	1750.00	7W-106.250MBB-T
125.000	887-1192-1-ND	5.63	4.88	4.28	3.38	2.85	1,000	2100.00	7W-125.000MBB-T
133.330	887-1193-1-ND	5.63	4.88	4.28	3.38	2.85	1,000	2100.00	7W-133.330MBB-T
150.000	887-1194-1-ND	6.56	5.69	4.99	3.94	3.33	1,000	2450.00	7W-150.000MBB-T
NEW! 7W-XXXXMBA-T Series 3.3V ±25ppm @ (-20°C ~ 70°C) NEW!									
1.544	887-1348-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-1.544MBA-T
1.8432	887-1349-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-1.8432MBA-T
3.6864	887-1350-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-3.6864MBA-T
4.000	887-1351-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-4.000MBA-T
4.096	887-1352-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-4.096MBA-T
6.000	887-1353-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-6.000MBA-T
7.3728	887-1354-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-7.3728MBA-T
8.000	887-1355-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-8.000MBA-T
8.192	887-1356-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-8.192MBA-T
10.000	887-1357-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-10.000MBA-T
12.000	887-1358-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-12.000MBA-T
12.288	887-1359-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-12.288MBA-T
14.31818	887-1360-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-14.31818MBA-T
14.7456	887-1361-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-14.7456MBA-T
16.000	887-1362-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-16.000MBA-T
16.384	887-1363-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-16.384MBA-T
18.432	887-1364-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-18.432MBA-T
20.000	887-1365-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-20.000MBA-T
24.000	887-1366-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-24.000MBA-T
24.576	887-1367-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-24.576MBA-T
25.000	887-1368-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-25.000MBA-T
27.000	887-1369-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-27.000MBA-T
30.000	887-1370-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-30.000MBA-T
32.000	887-1371-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-32.000MBA-T
32.768	887-1372-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-32.768MBA-T
33.3333	887-1373-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-33.3333MBA-T
35.328	887-1374-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-35.328MBA-T
36.000	887-1375-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-36.000MBA-T
40.000	887-1376-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-40.000MBA-T
48.000	887-1377-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-48.000MBA-T
49.152	887-1378-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-49.152MBA-T
50.000	887-1379-1-ND	3.19	2.77	2.43	1.92	1.62	1,000	1190.00	7W-50.000MBA-T
7C-XXXXMBB-T Series 3.3V ±50ppm @ (-20°C ~ 70°C)									
4.000	887-1195-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-4.000MBB-T
6.000	887-1196-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-6.000MBB-T
8.000	887-1197-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-8.000MBB-T
12.000	887-1198-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-12.000MBB-T
14.31818	887-1199-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-14.31818MBB-T
16.000	887-1200-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-16.000MBB-T
20.000	887-1201-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-20.000MBB-T
24.000	887-1202-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-24.000MBB-T
24.576	887-1203-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-24.576MBB-T
25.000	887-1204-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-25.000MBB-T
26.000	887-1205-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-26.000MBB-T
27.000	887-1206-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-27.000MBB-T
28.63636	887-1207-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-28.63636MBB-T
33.3330	887-1208-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-33.3330MBB-T
40.000	887-1209-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-40.000MBB-T
44.000	887-1210-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-44.000MBB-T
48.000	887-1211-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-48.000MBB-T
50.000	887-1212-1-ND	3.00	2.60	2.28	1.80	1.52	1,000	1120.00	7C-50.000MBB-T
NEW! 7C-XXXXMBA-T 3.3V ±25ppm @ (-20°C ~ 70°C) NEW!									
4.000	887-1380-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-4.000MBA-T
6.000	887-1381-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-6.000MBA-T
8.000	887-1382-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-8.000MBA-T
12.000	887-1383-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-12.000MBA-T
14.31818	887-1384-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-14.31818MBA-T
16.000	887-1385-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-16.000MBA-T
20.000	887-1386-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-20.000MBA-T
24.000	887-1387-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-24.000MBA-T
24.576	887-1388-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-24.576MBA-T
25.000	887-1389-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-25.000MBA-T
26.000	887-1390-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-26.000MBA-T
27.000	887-1391-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-27.000MBA-T
33.3330	887-1392-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-33.3330MBA-T
40.000	887-1393-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-40.000MBA-T
44.000	887-1394-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-44.000MBA-T
48.000	887-1395-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-48.000MBA-T
50.000	887-1396-1-ND	3.56	3.09	2.71	2.14	1.81	1,000	1330.00	7C-50.000MBA-T
7X-XXXXMBB-T Series 3.3V ±50ppm @ (-20°C ~ 70°C)									
1.8432	887-1213-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-1.8432MBB-T
12.000	887-1214-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-12.000MBB-T
14.31818	887-1215-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-14.31818MBB-T
19.200	887-1216-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-19.200MBB-T
20.000	887-1217-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-20.000MBB-T
24.576	887-1218-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-24.576MBB-T
25.000	887-1219-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-25.000MBB-T
26.000	887-1220-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-26.000MBB-T
30.000	887-1221-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-30.000MBB-T
38.400	887-1222-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-38.400MBB-T
48.000	887-1223-1-ND	3.56	3.09	2.71	2.14	1.81	3,000	1282.50/M	7X-48.000MBB-T
NEW! 7X-XXXXMBA-T Series 3.3V ±25ppm @ (-20°C ~ 70°C) NEW!									
1.8432	887-1397-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-1.8432MBA-T
12.000	887-1398-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-12.000MBA-T
14.31818	887-1399-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-14.31818MBA-T
19.200	887-1400-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-19.200MBA-T
20.000	887-1401-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-20.000MBA-T
24.576	887-1402-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-24.576MBA-T
25.000	887-1403-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-25.000MBA-T
26.000	887-1404-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-26.000MBA-T
30.000	887-1405-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-30.000MBA-T
38.400	887-1406-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-38.400MBA-T
48.000	887-1407-1-ND	4.13	3.58	3.14	2.48	2.09	3,000	1485.00/M	7X-48.000MBA-T
8W-XXXXMBB-T Series 3.3V ±50ppm @ (-20°C ~ 70°C)									
12.000	887-1224-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-12.000MBB-T
13.000	887-1225-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-13.000MBB-T
19.200	887-1226-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-19.200MBB-T
20.000	887-1227-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-20.000MBB-T
24.000	887-1228-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-24.000MBB-T
24.576	887-1229-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-24.576MBB-T
26.000	887-1230-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-26.000MBB-T
36.000	887-1231-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-36.000MBB-T
40.000	887-1232-1-ND	4.69	4.07	3.57	2.82	2.38	3,000	1687.50/M	8W-40.000MBB-T
NEW! 8W-XXXXMBA-T Series 3.3V ±25ppm @ (-20°C ~ 70°C) NEW!									
12.000	887-1408-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-12.000MBA-T
13.000	887-1409-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-13.000MBA-T
19.200	887-1410-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-19.200MBA-T
20.000	887-1411-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-20.000MBA-T
24.000	887-1412-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-24.000MBA-T
24.576	887-1413-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-24.576MBA-T
26.000	887-1414-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-26.000MBA-T
36.000	887-1415-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-36.000MBA-T
40.000	887-1416-1-ND	5.63	4.88	4.28	3.38	2.85	3,000	2025.00/M	8W-40.000MBA-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

AVX KYOCERA NEW! SAW Clock Oscillators

Dimensions in mm

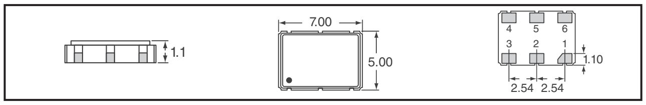

Supply Voltage (V)	Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing‡ 1,000	AVX Part No.
2.5	156.25	478-6068-1-ND	30.00	27.00	22.50	20000.00	KC7050T156.250P20E00
	200.00	478-6069-1-ND	30.00	27.00	22.50	20000.00	KC7050T200.000P20E00
	250.00	478-6070-1-ND	36.00	32.40	27.00	24000.00	KC7050T250.000P20E00
	312.50	478-6071-1-ND	36.00	32.40	27.00	24000.00	KC7050T312.500P20E00
3.3	156.25	478-6072-1-ND	30.00	27.00	22.50	20000.00	KC7050T156.250P30E00
	200.00	478-6073-1-ND	30.00	27.00	22.50	20000.00	KC7050T200.000P30E00
	250.00	478-6074-1-ND	36.00	32.40	27.00	24000.00	KC7050T250.000P30E00
	312.50	478-6075-1-ND	36.00	32.40	27.00	24000.00	KC7050T312.500P30E00
LVDS Output							
2.5	156.25	478-6155-1-ND	30.00	27.00	22.50	15000.00	KC7050T156.250L20E00
	200.00	478-6157-1-ND	30.00	27.00	22.50	15000.00	KC7050T200.000L20E00
	250.00	478-6159-1-ND	36.00	32.40	27.00	18000.00	KC7050T250.000L20E00
	312.50	478-6161-1-ND	36.00	32.40	27.00	18000.00	KC7050T312.500L20E00
3.3	156.25	478-6156-1-ND	30.00	27.00	22.50	15000.00	KC7050T156.250L30E00
	200.00	478-6158-1-ND	30.00	27.00	22.50	15000.00	KC7050T200.000L30E00
	250.00	478-6160-1-ND	36.00	32.40	27.00	18000.00	KC7050T250.000L30E00
	312.50	478-6162-1-ND	36.00	32.40	27.00	18000.00	KC7050T312.500L30E00

‡ For Tape and Reel part number, change 1-ND to 2-ND.

CX5032GB Series SMD Crystals

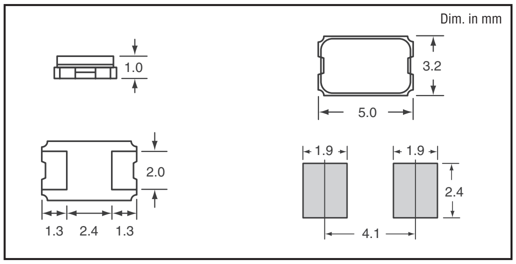

Features: • Crystal unit for audio-visual and office equipment • Small and low profile • Ceramic package • Reflow compatible
Applications: • Digital electronics • Audio-visual • Office equipment
Specifications: • Frequency Tolerance: ±30ppm • Frequency Temperature Characteristics: ±20ppm • Load Capacitance: 12pF • Operating Temperature Range: -10°C ~ 70°C • Storage Temperature Range: -40°C ~ 85°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
10.00000	478-4358-1-ND	1.52	.95	.71	478-4358-2-ND	608.00	CX5032GB10000H0PESZZ
12.00000	478-4359-1-ND	1.52	.95	.71	478-4359-2-ND	608.00	CX5032GB12000H0PESZZ
14.31818	478-4360-1-ND	1.52	.95	.71	478-4360-2-ND	608.00	CX5032GB14318H0PESZZ
14.74560	478-4361-1-ND	1.52	.95	.71	478-4361-2-ND	608.00	CX5032GB14745H0PESZZ
16.00000	478-4362-1-ND	1.52	.95	.71	478-4362-2-ND	608.00	CX5032GB16000H0PESZZ
20.00000	478-4363-1-ND	1.52	.95	.71	478-4363-2-ND	608.00	CX5032GB20000H0PESZZ
24.57600	478-4364-1-ND	1.52	.95	.71	478-4364-2-ND	608.00	CX5032GB24576H0PESZZ
27.00000	478-4365-1-ND	1.52	.95	.71	478-4365-2-ND	608.00	CX5032GB27000H0PESZZ

ST3215SB Series SMD Crystals

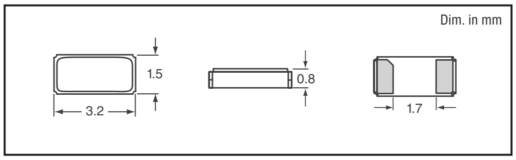

Features: • Small and low profile • Ceramic package • Reflow compatible
Applications: • Consumer and Mobile Equipment
Specifications: • Frequency Tolerance: ±20ppm • Equivalent Series Resistance: 70kΩ • Nominal Frequency: 32.768kHz • Operating Temperature Range: -40°C ~ 85°C

Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	AVX Part No.
9.0	478-5429-1-ND	1.50	1.35	1.13	478-5429-2-ND	750.00/M	ST3215SB32768E0HPWAA
12.5	478-5428-1-ND	1.50	1.35	1.13	478-5428-2-ND	750.00/M	ST3215SB32768H5HPWAA

CX49GFNB Series SMT Crystals

Features: • Crystal unit for audio-visual and office equipment • Metal package • Hermetic sealed resistance weld
Applications: • Digital electronics • Audio-visual • Office equipment
Specifications: • Frequency Tolerance: ±50ppm • Frequency Temperature Characteristics: ±50ppm • Load Capacitance: 12pF • Operating Temperature Range: -10°C ~ 70°C • Storage Temperature Range: -40°C ~ 85°C

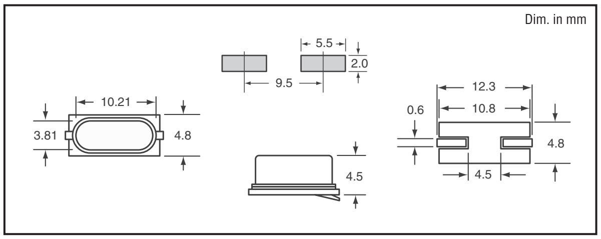

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
3.579545	478-4339-1-ND	1.00	.63	.47	478-4339-2-ND	400.00	CX49GFNB03579H0PESZZ
4.000000	478-4340-1-ND	1.00	.63	.47	478-4340-2-ND	400.00	CX49GFNB04000H0PESZZ
4.332000	478-4342-1-ND	1.00	.63	.47	478-4342-2-ND	400.00	CX49GFNB04332H0PESZZ
4.433619	478-4343-1-ND	1.00	.63	.47	478-4343-2-ND	400.00	CX49GFNB04433H0PESZZ
4.915200	478-4344-1-ND	1.00	.63	.47	478-4344-2-ND	400.00	CX49GFNB04915H0PESZZ
6.000000	478-4345-1-ND	1.00	.63	.47	478-4345-2-ND	400.00	CX49GFNB06000H0PESZZ
7.200000	478-4346-1-ND	1.00	.63	.47	478-4346-2-ND	400.00	CX49GFNB07200H0PESZZ
8.000000	478-4347-1-ND	1.00	.63	.47	478-4347-2-ND	400.00	CX49GFNB08000H0PESZZ
10.000000	478-4348-1-ND	1.00	.63	.47	478-4348-2-ND	400.00	CX49GFNB10000H0PESZZ
12.000000	478-4349-1-ND	1.00	.63	.47	478-4349-2-ND	400.00	CX49GFNB12000H0PESZZ
14.318180	478-4350-1-ND	1.00	.63	.47	478-4350-2-ND	400.00	CX49GFNB14318H0PESZZ
16.000000	478-4351-1-ND	1.00	.63	.47	478-4351-2-ND	400.00	CX49GFNB16000H0PESZZ
16.934000	478-4352-1-ND	1.00	.63	.47	478-4352-2-ND	400.00	CX49GFNB16934H0PESZZ
18.432000	478-4353-1-ND	1.00	.63	.47	478-4353-2-ND	400.00	CX49GFNB18432H0PESZZ
20.000000	478-4354-1-ND	1.00	.63	.47	478-4354-2-ND	400.00	CX49GFNB20000H0PESZZ
24.000000	478-4355-1-ND	1.00	.63	.47	478-4355-2-ND	400.00	CX49GFNB24000H0PESZZ
27.000000	478-4357-1-ND	1.00	.63	.47	478-4357-2-ND	400.00	CX49GFNB27000H0PESZZ

Chipset Crystals and TCXO’s

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	AVX Part No.	IC Manufacturer and Application
Chipset Crystals								
16.000	478-4815-1-ND	3.20	2.00	1.48	1,000	1280.00	CX3225SB16000E0FPZ25	Freescale Zigbee
24.000	478-4820-1-ND	4.00	2.50	1.85	1,000	1600.00	CX2520SB24000D0PESZZ	BeCeem WiMax
40.000	478-4816-1-ND	3.20	2.00	1.48	1,000	1280.00	CX-96F-040.000-E0107	Atheros WiFi
40.000	478-4817-1-ND	3.20	2.00	1.48	1,000	1280.00	CX101F-040.000-H0445	Atheros WiFi
40.000	478-4818-1-ND	4.00	2.50	1.85	1,000	1600.00	CX2520SB40000H0DZF08	Atheros WiFi
40.000	478-4819-1-ND	4.00	2.50	1.85	1,000	1600.00	CX2520SB40000H0WZK06	BeCeem WiMax
TCXO’s								
40.000	478-4821-1-ND	4.50	4.05	3.38	3,000	2250.00/M	KT2520Y40000ECV28TBA	BeCeem WiMax

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	AVX Part No.	IC Manufacturer and Application
40.000	478-4822-1-ND	4.50	4.05	3.38	3,000	2250.00/M	KT3225R40000ECV28TBA	BeCeem WiMax
27.456	478-5250-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT2520F27456ZAW28TBA	E-Ride GPS
27.456	478-4823-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT3225F27456ZAW28TA0	E-Ride GPS
26.000	478-4824-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT3225R26000ZAW28TMA	E-Ride GPS
16.367	478-5251-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT3225F16367ACW30TA0	Atheros
16.369	478-4825-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT2520F16369ACW28TAK	SiRF GPS
16.369	478-4826-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT3225F16369ACW28TA0	SiRF GPS
16.369	478-5249-1-ND	5.40	4.86	4.05	3,000	2700.00/M	KT2520F16369ACW18TAG	SiRF GPS

† For Tape and Reel part number, change 1-ND to 2-ND.

KC7050P Series LVDS and PECL SMD Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • Supply Voltage Vcc: 3.3V **Specifications:** • Operating Temperature Range: 0°C ~ 70°C • Max. Current Consumption: 70mA (LVDS), 90mA (PECL) • Stand-by Current: 30µA • Rise/Fall Time: 0.6nS • Output Load: 100Ω (LVDS), 50Ω (PECL)

Dim. in mm

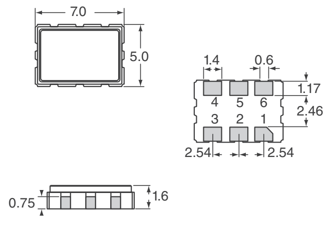

Pad Connections			
1	Enable /Disable	4	Output
2	NC	5	Complementary Output
3	Case GND	6	Vcc

Enable/Disable Function	
Pad1	Pad4/Pad5 (Output)
Open	Active
“H” Level	Active
“L” Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
LVDS							
125.000	478-6152-1-ND✔	17.40	15.66	13.05	478-6152-2-ND✔	8700.00	KC7050P125.000L20E00
150.000	478-6153-1-ND✔	20.40	18.36	15.30	478-6153-2-ND✔	10200.00	KC7050P150.000L20E00
156.250	478-6154-1-ND✔	20.40	18.36	15.30	478-6154-2-ND✔	10200.00	KC7050P156.250L20E00
100.000	478-6151-1-ND✔	17.40	15.66	13.05	478-6151-2-ND✔	8700.00	KC7050P100.000L30E00
125.000	478-4806-1-ND	17.40	15.66	13.05	478-4806-2-ND	8700.00	KC7050P125.000L30E00
150.000	478-4807-1-ND	20.40	18.36	15.30	478-4807-2-ND	10200.00	KC7050P150.000L30E00
155.520	478-4808-1-ND	20.40	18.36	15.30	—	—	KC7050P155.520L30E00
156.250	478-4809-1-ND	20.40	18.36	15.30	478-4809-2-ND	10200.00	KC7050P156.250L30E00
LV-PECL							
100.000	478-4810-1-ND	17.40	15.66	13.05	478-4810-2-ND	8700.00	KC7050P100.000P30E00
106.250	478-4811-1-ND	17.40	15.66	13.05	478-4811-2-ND	8700.00	KC7050P106.250P30E00
125.000	478-4812-1-ND	17.40	15.66	13.05	—	—	KC7050P125.000P30E00
155.520	478-4813-1-ND	20.40	18.36	15.30	—	—	KC7050P155.520P30E00
156.250	478-4814-1-ND	20.40	18.36	15.30	478-4814-2-ND	10200.00	KC7050P156.250P30E00

✔ NEW!

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Clock Oscillators SMD

KC5032/KC5032C Series: • Highly reliable miniature SMD ceramic package • Tri-state output inhibit • Low current consumption • Frequency Tolerance: ±50ppm • Supply Current: 60mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max. • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -55°C ~ 125°C **K50-3C Series:** • Highly reliable SMD ceramic package • Tri-state output inhibit • Frequency Tolerance: ±50ppm • Supply Current: 30mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max. • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -55°C ~ 125°C **K50-HC Series:** • Highly reliable SMD ceramic package • Tri-state output inhibit • Frequency Tolerance: ±50ppm • Supply Current: 50mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 50pF Max. • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -55°C ~ 125°C **K50H-3C Series:** • Special design package for high frequency applications • Tri-state output inhibit • Lower jitter • Frequency Tolerance: ±50ppm • Supply Current: 60mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max. • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -55°C ~ 125°C **KC2520B Series:** • Miniature ceramic package • Highly reliable with seam welding • Low power supply consumption • Wide operating voltage range from 2.25V to 3.63V • Frequency Tolerance: ±50ppm • Supply Current: 5mA Max. • Rise/Fall Time: 5nS • Load Capacitance: 15pF • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -55°C ~ 125°C **KC3225A-C2/ KC3225A-C3 Series:** • Miniature ceramic package • Highly reliable with seam welding • CMOS output • Frequency Tolerance: ±50ppm • Supply Current: 25mA max. • Rise/Fall Time: 3nS max. • Load Capacitance: 15pF • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -55°C ~ 125°C **KC7050A Series:** • Miniature ceramic package • Highly reliable with seam welding • Supply Voltage Vcc: 3.3V • Operating Temperature Range: -10°C ~ 70°C • Max. Current Consumption: 70mA (LVDS), 90mA (PECL) • Stand-by Current: 30μA • Rise/Fall Time: 0.6ns • Output Load: 100Ω (LVDS), 50Ω (PECL)

Dimensions in mm

Fig. 1

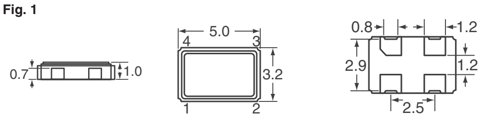

Fig. 2

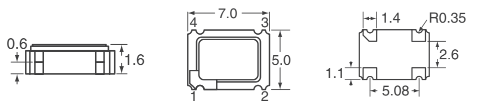

Fig. 3

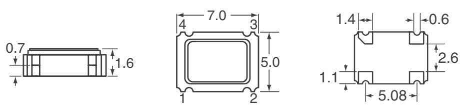

Fig. 4

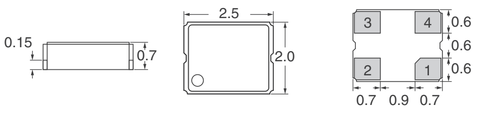

Fig. 5

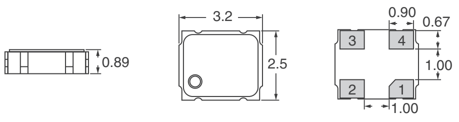

Fig. 6

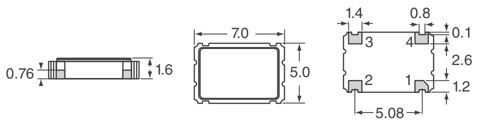

Fig. A

Enable/Disable Function	
Pad #1	Pad #3
"H" or Open	Oscillation
"L"	High Impedance or Oscillation Stop (K50-HC Series does not include Oscillation Stop)

Pad Connection	
1	Control
2	Case GND
3	Output
4	Vcc

Fig. B

Enable/Disable Function	
Pad 1	Pad 3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Pad Connection	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Fig.	Frequency (MHz)	Supply Voltage (V)	Digi-Key Part No.	Cut Tape Price Each				Tape and Reel†		AVX Part No.
				1	10	100	500	Qty.	Pricing	
				KC5032 Series						
1A	14.31818	3.3	478-2094-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C14.3182C30E00
	16.00000	3.3	478-2095-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C16.0000C30E00
	20.00000	3.3	478-2096-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C20.0000C30E00
	24.57600	3.3	478-2097-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C24.5760C30E00
	25.00000	3.3	478-2098-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C25.0000C30E00
	27.00000	3.3	478-2099-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C27.0000C30E00
	29.49890	3.3	478-2100-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C29.4989C30E00
	40.00000	3.3	478-2101-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C40.0000C30E00
	50.00000	3.3	478-2102-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C50.0000C30E00
	60.00000	3.3	478-2103-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C60.0000C30E00
	64.00000	3.3	478-2104-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C64.0000C30E00
	66.66670	3.3	478-2105-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C66.6667C30E00
	75.0000	3.3	478-4796-1-ND	2.76	2.49	2.07	1.66	1,000	1380.00	KC5032C75.0000C30E00
	100.000	3.3	478-4797-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC5032C100.000C30E00
	106.250	3.3	478-4798-1-ND	4.50	4.05	3.38	2.70	—	—	KC5032C106.250C30E00
	125.000	3.3	478-4799-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC5032C125.000C30E00
	150.000	3.3	478-4800-1-ND	13.80	12.42	10.35	8.28	1,000	6900.00	KC5032C150.000C30E00
				NEW! KC5032C Series NEW!						
1B	100.000	2.5	478-6147-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC5032C100.000C20E00
	125.000	2.5	478-6148-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC5032C125.000C20E00
				K50-3C Series						
2A	14.31818	3.3	478-2084-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE14.31818MR
	16.00000	3.3	478-2085-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE16.0000MR
	24.57600	3.3	478-2086-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE24.5760MR
	25.00000	3.3	478-2087-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE25.0000MR
	29.49890	3.3	478-2088-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE29.4989MR
	40.00000	3.3	478-2089-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE40.0000MR
	50.00000	3.3	478-2090-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE50.0000MR
	66.66670	3.3	478-2091-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE66.6667MR
				K50-HC Series						
2A	1.84320	5.0	478-2066-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE1.8432MR
	3.68640	5.0	478-2067-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE3.6864MR
	8.00000	5.0	478-2068-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE8.0000MR
	14.31818	5.0	478-2069-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE14.31818MR
	16.00000	5.0	478-2071-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE16.0000MR
	20.00000	5.0	478-2072-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE20.0000MR
	24.00000	5.0	478-2073-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE24.0000MR
	24.57600	5.0	478-2074-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE24.5760MR
	25.00000	5.0	478-2075-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE25.0000MR
	27.00000	5.0	478-2076-1-ND	5.25	4.73	3.94	3.15	1,000	2625.00	K50-HC0CSE27.0000MR
	28.63630	5.0	478-2077-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE28.6363MR
	29.49890	5.0	478-2078-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE29.4989MR
	40.00000	5.0	478-2079-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE40.0000MR
	48.00000	5.0	478-2080-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE48.0000MR
	49.15200	5.0	478-2081-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE49.1520MR
	50.00000	5.0	478-2082-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE50.0000MR
	66.66670	5.0	478-2083-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE66.6667MR
				K50H-3C Series						
3A	106.25000	3.3	478-2092-1-ND	6.00	5.40	4.50	3.60	1,000	3000.00	K50H-3C0-SE106.250MR
	125.00000	3.3	478-2093-1-ND	6.00	5.40	4.50	3.60	1,000	3000.00	K50H-3C0-SE125.000MR
				KC2520B Series						
4B	4.09600	2.5/3.3	478-4585-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B4.09600C2GE00
	7.37280	2.5/3.3	478-4586-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B7.37280C2GE00
	25.00000	2.5/3.3	478-4587-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B25.0000C2GE00
	27.00000	2.5/3.3	478-4588-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B27.0000C2GE00
	33.33330	2.5/3.3	478-4589-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B33.3333C2GE00
	48.00000	2.5/3.3	478-4590-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B48.0000C2GE00
	14.3182	1.8/2.5/3.3	478-4777-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B14.3182C10E00
	24.0000	1.8/2.5/3.3	478-4778-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B24.0000C10E00
	24.5760	1.8/2.5/3.3	478-4779-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B24.5760C10E00
	25.0000	1.8/2.5/3.3	478-4780-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B25.0000C10E00
	27.0000	1.8/2.5/3.3	478-4781-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B27.0000C10E00
	48.0000	1.8/2.5/3.3	478-4782-1-ND	3.30	2.97	2.48	1.98	2,000	1650.00/M	KC2520B48.0000C10E00
				NEW! KC3225A-C2 Series NEW!						
5B	100.000	2.5	478-6145-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A100.000C20E00
	125.000	2.5	478-6146-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A125.000C20E00
				KC3225A-C3 Series						
5B	12.0000	3.3	478-4783-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A12.0000C30E00
	14.3182	3.3	478-4784-1-ND	2.97	2.68	2.23	1.79	—	—	KC3225A14.3182C30E00
	24.5760	3.3	478-4785-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A24.5760C30E00
	25.0000	3.3	478-4786-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A25.0000C30E00
	27.0000	3.3	478-4787-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A27.0000C30E00
	30.0000	3.3	478-4788-1-ND	2.97	2.68	2.23	1.79	—	—	KC3225A30.0000C30E00
	40.0000	3.3	478-4789-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A40.0000C30E00
	48.0000	3.3	478-4790-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A48.0000C30E00
	49.1520	3.3	478-4791-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A49.1520C30E00
	50.0000	3.3	478-4792-1-ND	2.97	2.68	2.23	1.79	2,000	1485.00/M	KC3225A50.0000C30E00
	54.0000	3.3	478-4793-1-ND	3.45	3.11	2.59	2.07	2,000	1725.00/M	KC3225A54.0000C30E00
	72.0000	3.3	478-4794-1-ND	3.45	3.11	2.59	2.07	2,000	1725.00/M	KC3225A72.0000C30E00
	75.0000	3.3	478-4795-1-ND	3.45	3.11	2.59	2.07	2,000	1725.00/M	KC3225A75.0000C30E00
	100.00000	3.3	478-4591-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A100.000C30E00
	106.25000	3.3	478-4592-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A106.250C30E00
	125.00000	3.3	478-4593-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A125.000C30E00
				KC7050A-C3 Series						
6B	75.0000	3.3	478-4801-1-ND	2.76	2.49	2.07	1.66	1,000	1380.00	KC7050A75.0000C30E00
	100.000	3.3	478-4802-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC7050A100.000C30E00
	106.250	3.3	478-4803-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC7050A106.250C30E00
	125.000	3.3	478-4804-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC7050A125.000C30E00
	150.000	3.3	478-4805-1-ND	13.80	12.42	10.35	8.28	—	—	KC7050A150.000C30E00
				NEW! KC7050A-C2 Series NEW!						
6B	100.000	2.5	478-6149-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC7050A100.000C20E00
	125.000	2.5	478-6150-1-ND	4.50	4.05	3.38	2.70	1,000	2250.00	KC7050A125.000C20E00

† For Tape and Reel part number, change 1-ND to 2-ND.

ECS INC. INTERNATIONAL Monolithic Crystal Filters

Fig.	Center Freq. (MHz)	Passband (kHz)	No. of Poles	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
				SMD						
1	21.4	15	2	X713CT-ND	7.31	6.08	4.84	1,000	3375.00	ECS-96SMF21A15
	21.4	30	2	X717CT-ND	8.31	7.48	6.24	500	2077.50	ECS-96SMF21A30
	45	30	2	X714CT-ND	10.56	8.78	6.99	1,000	4875.00	ECS-96SMF45A30
	45	7.5	4	X718CT-ND	27.99	25.20	21.00	500	6997.50	ECS-75SMF45A7.5B
	45	30	4	X719CT-ND	27.99	25.20	21.00	500	6997.50	ECS-75SMF45A30B
2	45	15	2	X720CT-ND	21.00	18.90	15.75	500	5250.00	ECS-38SMF45A15
	45	30	2	X721CT-ND	21.00	18.90	15.75	500	5250.00	ECS-38SMF45A30
				Through-Hole						
3	10.7	7.5	2	X701-ND‡	5.20	4.32	3.44	—	—	ECS-10.7-7.5A
	10.7	7.5	4	X702-ND‡§	12.03	9.99	7.96	—	—	ECS-10.7-7.5B
	10.7	15	2	X703-ND‡	3.09	2.57	2.05	—	—	ECS-10.7-15A
	10.7	15	4	X704-ND‡§	6.34	5.27	4.20	—	—	ECS-10.7-15B
	10.7	30	2	X705-ND‡	4.23	3.51	2.80	—	—	ECS-10.7-30A
	10.7	30	4	X706-ND‡§	8.78	7.29	5.81	—	—	ECS-10.7-30B
4	21.4	7.5	2	X707-ND‡	4.39	3.65	2.91	—	—	ECS-21K-7.5A
	21.4	7.5	4	X708-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-7.5B
	21.4	15	2	X709-ND‡	4.39	3.65	2.91	—	—	ECS-21K-15A
	21.4	15	4	X710-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-15B
	21.4	30	2	X711-ND‡	4.39	3.65	2.91	—	—	ECS-21K-30A
	21.4	30	4	X712-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-30B

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk
§ Through hole 4 pole filters are packaged in matched pairs.

Fig. 1

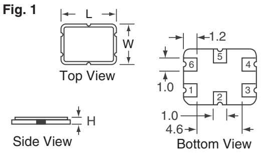

Dimensions	L	W	H
ECS-96SMF	7.0	5.0	1.5
ECS-75SMF	7.0	5.0	0.8

2-Pole Pad Connections	
1	In/Out
2	Ground
3	Ground
4	Out/In
5	Ground
6	Ground

4-Pole Pad Connections	
1	Ground
2	Zc
3	Out/In
4	Ground
5	Zc
6	In/Out

Fig. 2 Dimensions in mm

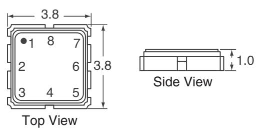

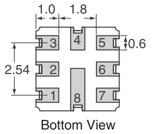

Pad Connections	
1	Input
2	Ground
3	Ground
4	Ground
5	Output
6	Ground
7	Ground
8	Ground

Fig. 3

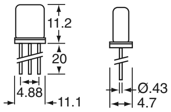

Fig. 4

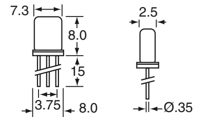

Ceramic Resonators — Surface Mount

CR-2 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Built-In Capacitance CR-2B: 10.0 ~ 12.0MHz 30pF, 16.0 ~ 20.0MHz 15pF ±20%
HFR Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20° ~ 80°C; 20.0 ~ 30.0MHz ±0.4%; 40.0 ~ 50.0MHz ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance HFR-B: 8pF ±20%
SR1 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance SR1-B: 30pF ±20%

Fig.	Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
1	ECS-CR2-A	10.00	XC1102CT-ND	.51	.46	.39	—	—	ECS-CR2-10.00-A-TR
	ECS-CR2-A	16.00	XC1104CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-16.00-A-TR
	ECS-CR2-A	20.00	XC1105CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-20.00-A-TR
2	ECS-CR2-B	10.00	XC1106CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-10.00-B-TR
	ECS-CR2-B	20.00	XC1109CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-20.00-B-TR
	ECS-HFR-B	30.00	XC1098CT-ND	.57	.52	.43	—	—	ECS-HFR-30.00-B-TR
3	ECS-SR1-A	3.58	X932CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-3.58-A-TR
	ECS-SR1-A	4.00	X933CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.00-A-TR
	ECS-SR1-A	4.19	X934CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.19-A-TR
	ECS-SR1-A	6.00	X935CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-6.00-A-TR
	ECS-SR1-A	8.00	X936CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-8.00-A-TR
4	ECS-SR1-B	3.58	X927CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-3.58-B-TR
	ECS-SR1-B	4.00	X928CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.00-B-TR
	ECS-SR1-B	4.19	X929CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.19-B-TR
	ECS-SR1-B	6.00	X930CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-6.00-B-TR
	ECS-SR1-B	8.00	X931CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-8.00-B-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

Dimensions - mm			
Series	**A**	**B**	**C**
CR-2	3.1	3.7	1.2
HFR	2.0	2.5	1.0
SR1 A	4.0	7.5	1.8
SR1 B	4.0	7.5	2.2

Fig. 1

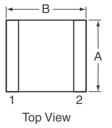

Pad Connections	
1	In/Out
2	Out/In

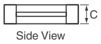

Fig. 2

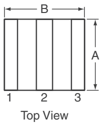

Pad Connections	
1	In/Out
2	Ground
3	Out/In

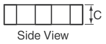

Fig. 3

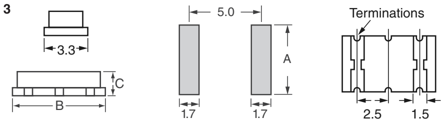

Fig. 4

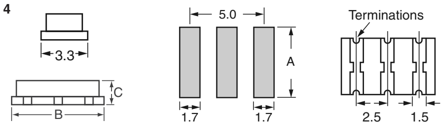

Ceramic Resonators — Through Hole

ZTT Series with Built-In Load Capacitance: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-in Capacitance: 30pf ±20% **ZTA and ZTB Series:** • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Operating Temperature: -20°C ~ 80°C

Fig. 1

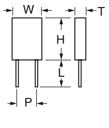

Freq. Range	Dimensions - mm W	T	H	P	L
200	13.5	3.8	14.7	10	8.0
400	7.9	3.6	9.3	5.0	5.0
455~640	7.0	3.5	9.0	5.0	5.0
800~1,000	5.2	2.8	6.0	2.5	3.5

Fig. 2

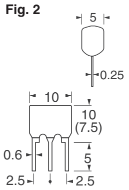

Fig. 3

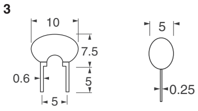

Fig. 4

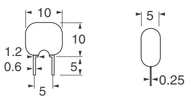

Fig.	Model/Series	Frequency	Digi-Key Part No.	Price Each 1	10	100	ECS Part No.
1	ZTB	200kHz	X919-ND	.84	.70	.56	ZTB200D
	ZTB	400kHz	X920-ND	.68	.57	.45	ZTB400P
	ZTB	455kHz	X921-ND	.68	.57	.45	ZTB455E
	ZTB	500kHz	X922-ND	.68	.57	.45	ZTB500E
	ZTB	540kHz	X923-ND	.68	.57	.45	ZTB540P
	ZTB	640kHz	X924-ND	.68	.57	.45	ZTB640P
	ZTB	800kHz	X925-ND	.68	.57	.45	ZTB800J
	ZTB	1,000kHz	X926-ND	.68	.57	.45	ZTB1000J
2	ZTT	3.58MHz	X901-ND	.54	.45	.36	ZTT-3.58MG
	ZTT	3.68MHz	XC1017-ND	.50	.45	.36	ZTT-3.68MG
	ZTT	4MHz	X902-ND	.54	.45	.36	ZTT-4.00MG
	ZTT	4.19MHz	X903-ND	.54	.45	.36	ZTT-4.19MG
	ZTT	6MHz	XC1733-ND ***NEW!***	.50	.45	.36	ZTT-6.00MG
	ZTT	8MHz	X905-ND	.54	.45	.36	ZTT-8.00MT
	ZTT	10MHz	X906-ND	.54	.45	.36	ZTT-10.00MT
	ZTT	12MHz	X907-ND	.54	.45	.36	ZTT-12.00MT
	ZTT	16MHz	X908-ND	.54	.45	.36	ZTT-16.00MX
	ZTT	20MHz	X909-ND	.54	.45	.36	ZTT-20.00MX
3	ZTA	3.58MHz	X910-ND	.49	.41	.33	ZTA-3.58MG
	ZTA	4MHz	X911-ND	.49	.41	.33	ZTA-4.00MG
	ZTA	4.19MHz	X912-ND	.49	.41	.33	ZTA-4.19MG
	ZTA	6MHz	XC1732-ND ***NEW!***	.45	.41	.33	ZTA-6.00MG
4	ZTA	6MHz	X913-ND	.49	.41	.33	ZTA-6.00MT
	ZTA	8MHz	X914-ND	.49	.41	.33	ZTA-8.00MT
	ZTA	10MHz	X915-ND	.49	.41	.33	ZTA-10.00MT
	ZTA	12MHz	X916-ND	.49	.41	.33	ZTA-12.00MT
	ZTA	16MHz	X917-ND	.49	.41	.33	ZTA-16.00MX
	ZTA	20MHz	X918-ND	.49	.41	.33	ZTA-20.00MX

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ECS INC. INTERNATIONAL SAW Filters

Dim. in mm.

Fig. 1

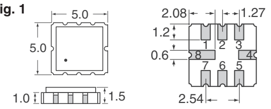

Pin Connection			
1	Input	5	Output
2	GND	6	GND
3	GND	7	Coupling
4	GND	8	GND

Fig. 2

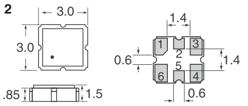

Pin Connection			
1	GND	4	GND
2	Signal	5	Signal
3	GND	6	GND

Fig. 3

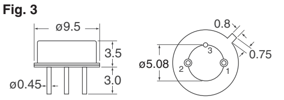

Pin Connection	
1	Input
2	Output
3	GND

Fig.	Frequency (MHz)	Insertion Loss (dB)	Passband (MHz)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
			Min.	Max.		1	10	100			
1	400.0	6.0	399.917	400.083	XC994CT-ND	3.57	3.22	2.68	XC994TR-ND	1785.00	ECS-DSF400.0A-51-TR
2	947.5	3.3	922.5	—	XC995CT-ND	3.57	3.22	2.68	XC995TR-ND	1785.00	ECS-DSF947.5B-21-TR
3	479.5	23	453.8	507.2	XC992-ND‡	2.25	2.03	1.62	—	—	ECS-D479.5B
	480.0	21	463.4	498.6	XC993-ND‡	2.25	2.03	1.62	—	—	ECS-D480A

‡ Bulk

ECS-SDR1 — One Port SAW Resonators

Dim. in mm.

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
		1	10	100			
315.00	XC996CT-ND	3.57	3.22	2.68	XC996TR-ND	1785.00	ECS-SDR1-3150-TR
418.00	XC997CT-ND	3.57	3.22	2.68	XC997TR-ND	1785.00	ECS-SDR1-4180-TR
433.92	XC998CT-ND	3.57	3.22	2.68	XC998TR-ND	1785.00	ECS-SDR1-4339-TR

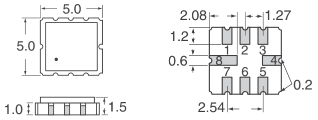

Pin Connection			
1	No Conn.	5	No Conn.
2	Input	6	Output
3	No Conn.	7	No Conn.
4	Ground	8	Ground

ABRACON CORPORATION AFS Series — SMD Saw Filters

Dim. in mm.

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 1,000	Abracon Part No.
			1	10	100	500			
1	1,575.42	535-9239-1-ND	2.06	1.79	1.24	1.05	535-9239-2-ND	770.00	AFS1575.42S4
	1,842.50	535-9240-1-ND	1.51	1.30	1.02	.83	535-9240-2-ND	715.00	AFS1842.5S4
2	303.825	535-9241-1-ND	1.35	1.16	.91	.74	535-9241-2-ND	637.00	AFS303.825E
	315.020	535-9242-1-ND	1.84	1.60	1.11	.94	535-9242-2-ND	686.00	AFS315E
	374.000	535-9243-1-ND	1.84	1.60	1.11	.94	535-9243-2-ND	686.00	AFS374E
	390.000	535-9244-1-ND	1.35	1.16	.91	.74	535-9244-2-ND	637.00	AFS390E
3	418.000	535-9245-1-ND	1.35	1.16	.91	.74	535-9245-2-ND	637.00	AFS418S3
	869.000	535-9247-1-ND	1.84	1.60	1.11	.94	535-9247-2-ND	686.00	AFS869S3
	915.000	535-9248-1-ND	1.84	1.60	1.11	.94	535-9248-2-ND	686.00	AFS915S3
	916.500	535-9249-1-ND	1.35	1.16	.91	.74	535-9249-2-ND	637.00	AFS916.5S3
	930.500	535-9250-1-ND	1.35	1.16	.91	.74	535-9250-2-ND	637.00	AFS930S3

See manufacturer's data sheets for pinout information

Fig. 1

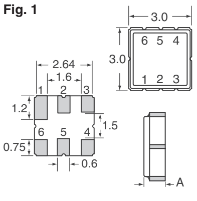

Dimensions (mm)	
Part Number	A
AFS1575.42S4	1.15
AFS1842.5S4	1.5

Fig. 2

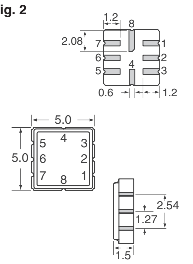

Fig. 3

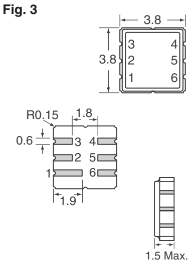

ASR Series — SMD Saw Resonators

Dim. in mm.

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 1,000	Abracon Part No.
			1	10	100	500			
1	303.825	535-9275-1-ND	1.29	1.11	.87	.71	535-9275-2-ND	611.00	ASR303.825E
	390.000	535-9277-1-ND	1.29	1.11	.87	.71	535-9277-2-ND	611.00	ASR390E
2	315.000	535-9276-1-ND	1.29	1.11	.87	.71	535-9276-2-ND	611.00	ASR315E
	423.220	535-9278-1-ND	1.29	1.11	.87	.71	535-9278-2-ND	611.00	ASR423.22E
	433.420	535-9279-1-ND	1.76	1.53	1.06	.90	535-9279-2-ND	658.00	ASR433.42E
	433.920	535-9280-1-ND	1.76	1.53	1.06	.90	535-9280-2-ND	658.00	ASR433.92E
	868.350	535-9281-1-ND	1.29	1.11	.87	.71	535-9281-2-ND	611.00	ASR868.35E
	915.000	535-9282-1-ND	1.76	1.53	1.06	.90	535-9282-2-ND	658.00	ASR915E

See manufacturer's data sheets for pinout information

Fig. 1

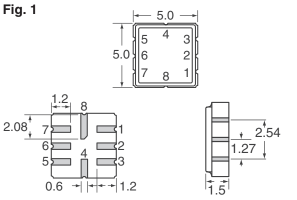

Fig. 2

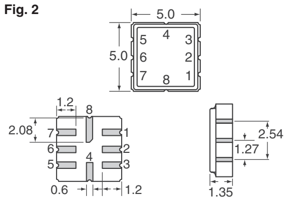

AWSCR Series — SMD Ceramic Resonators with Built-In Cap

Dim. in mm.

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -2585°C (MTD-T Series: -40°C ~ 85°C) **Features:** • Industrial grade

Fig. 1

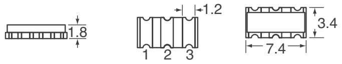

Pin	Function
1	Input
2	GND
3	Output

Fig. 2

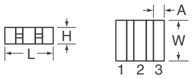

Pin	Function
1	Input
2	GND
3	Output

Dimensions (mm)				
Series	L	W	H	A
AWSCR-xxxxMTD-T	4.7 ±0.2	4.1 ±0.2	1.6	0.8 ±0.2
AWSCR-xxxxCV-T	3.7 ±0.2	3.1 ±0.2	1.0	0.7 ±0.2
AWSCR-xxxxCW-T	2.5 ±0.2	2.0 ±0.2	1.2	0.5 ±0.2

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Abracon Part No.
			1	10	100	500		Qty.	Pricing	
					AWSCR-xxxxMGD-T Series					
1	3.58	535-9365-1-ND	.45	3.90	27.00	114.00	535-9365-2-ND	1,000	168.00	AWSCR-3.58MGD-T
	6.00	535-9367-1-ND	.45	3.90	27.00	114.00	535-9367-2-ND	1,000	168.00	AWSCR-6.00MGD-T
					AWSCR-xxxxMTD-T Series					
2	16.00	535-9362-1-ND	.49	4.23	29.25	123.50	535-9362-2-ND	1,000	182.00	AWSCR-16.00MTD-T
	20.00	535-9363-1-ND	.49	4.23	29.25	123.50	535-9363-2-ND	1,000	182.00	AWSCR-20.00MTD-T
	24.00	535-9364-1-ND	.49	4.23	29.25	123.50	535-9364-2-ND	1,000	182.00	AWSCR-24.00MTD-T
					AWSCR-xxxxCV-T Series					
2	8.00	535-10004-1-ND	.41	3.58	24.75	104.50	535-10004-2-ND	1,000	154.00	AWSCR-8.00CV-T
	10.00	535-10005-1-ND	.49	4.23	29.25	123.50	535-10005-2-ND	1,000	182.00	AWSCR-10.00CV-T

(Continued)

AWSCR Series — SMD Ceramic Resonators with Built-In Cap *(Cont.)*

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Abracon Part No.
2	11.00	535-10006-1-ND	.49	4.23	29.25	123.50	535-10006-2-ND	1,000	182.00	AWSCR-11.00CV-T
	12.00	535-10007-1-ND	.45	3.90	27.00	114.00	535-10007-2-ND	1,000	168.00	AWSCR-12.00CV-T
	16.00	535-10008-1-ND	.45	3.90	27.00	114.00	535-10008-2-ND	1,000	168.00	AWSCR-16.00CV-T
	16.93	535-10009-1-ND	.45	3.90	27.00	114.00	535-10009-2-ND	1,000	168.00	AWSCR-16.93CV-T
	18.43	535-10010-1-ND	.45	3.90	27.00	114.00	535-10010-2-ND	1,000	168.00	AWSCR-18.43CV-T
	20.00	535-10011-1-ND	.45	3.90	27.00	114.00	535-10011-2-ND	1,000	168.00	AWSCR-20.00CV-T
	24.00	535-10012-1-ND	.49	4.23	29.25	123.50	535-10012-2-ND	1,000	182.00	AWSCR-24.00CV-T
	25.00	535-10013-1-ND	.49	4.23	29.25	123.50	535-10013-2-ND	1,000	182.00	AWSCR-25.00CV-T
	27.00	535-10014-1-ND	.49	4.23	29.25	123.50	535-10014-2-ND	1,000	182.00	AWSCR-27.00CV-T
	30.00	535-10015-1-ND	.56	4.88	33.75	142.50	535-10015-2-ND	1,000	210.00	AWSCR-30.00CV-T
	32.00	535-10016-1-ND	.56	4.88	33.75	142.50	535-10016-2-ND	1,000	210.00	AWSCR-32.00CV-T
	40.00	535-10017-1-ND	.60	5.20	36.00	152.00	535-10017-2-ND	1,000	224.00	AWSCR-40.00CV-T
	48.00	535-10018-1-ND	.60	5.20	36.00	152.00	535-10018-2-ND	1,000	224.00	AWSCR-48.00CV-T
	50.00	535-10019-1-ND	.60	5.20	36.00	152.00	535-10019-2-ND	1,000	224.00	AWSCR-50.00CV-T
					AWSCR-xxxxCW-T Series					
2	20.00	535-10036-1-ND	.49	4.23	29.25	123.50	535-10036-2-ND	3,000	175.50/M	AWSCR-20.00CW-T
	24.00	535-10037-1-ND	.49	4.23	29.25	123.50	535-10037-2-ND	3,000	175.50/M	AWSCR-24.00CW-T
	25.00	535-10038-1-ND	.49	4.23	29.25	123.50	535-10038-2-ND	3,000	175.50/M	AWSCR-25.00CW-T
	27.00	535-10039-1-ND	.49	4.23	29.25	123.50	535-10039-2-ND	3,000	175.50/M	AWSCR-27.00CW-T
	30.00	535-10040-1-ND	.53	4.55	31.50	133.00	535-10040-2-ND	3,000	189.00/M	AWSCR-30.00CW-T
	32.00	535-10041-1-ND	.53	4.55	31.50	133.00	535-10041-2-ND	3,000	189.00/M	AWSCR-32.00CW-T
	33.00	535-10042-1-ND	.53	4.55	31.50	133.00	535-10042-2-ND	3,000	189.00/M	AWSCR-33.00CW-T
	40.00	535-10043-1-ND	.53	4.55	31.50	133.00	535-10043-2-ND	3,000	189.00/M	AWSCR-40.00CW-T
	48.00	535-10044-1-ND	.64	5.53	38.25	161.50	535-10044-2-ND	3,000	229.50/M	AWSCR-48.00CW-T

AWSZT Series — SMD Ceramic Resonators

Dim. in mm.

Fig. 1

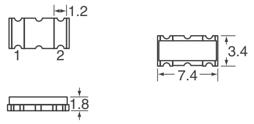

Pin	Function
1	Input
2	GND

Fig. 2

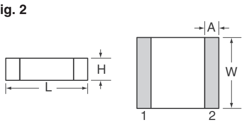

Pin	Function
1	Input
2	GND

Series	Dimensions (mm) L	W	H	A
AWSZT-xxxxMWD-T	4.7 ±0.2	4.1 ±0.2	1.2	0.8 ±0.2
AWSZT-xxxxMXD-T	4.7 ±0.2	4.1 ±0.2	1.6	0.8 ±0.2
AWSZT-xxxxCV-T	3.7 ±0.2	3.1 ±0.2	1.0	0.7 ±0.2
AWSZT-xxxxCW-T	2.5 ±0.2	2.0 ±0.2	1.2	0.5 ±0.2

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -25°C ~ 85°C (MXD-T Series: -20°C ~ 85°C) **Features:** • Industrial grade

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Abracon Part No.
					AWSZT-xxxMGD-T Series					
1	3.58	535-9373-1-ND	.30	2.59	20.35	82.50	535-9373-2-ND	1,000	143.00	AWSZT-3.58MGD-T
	4.00	535-9374-1-ND	.41	3.58	24.75	104.50	535-9374-2-ND	1,000	154.00	AWSZT-4.00MGD-T
	6.00	535-9375-1-ND	.41	3.58	24.75	104.50	535-9375-2-ND	1,000	154.00	AWSZT-6.00MGD-T
					AWSZT-xxxMWD-T Series					
2	12.00	535-9369-1-ND	.53	4.55	31.50	133.00	535-9369-2-ND	1,000	154.00	AWSZT-12.00MWD-T
					AWSZT-xxxMXD-T Series					
2	20.00	535-9371-1-ND	.41	3.58	24.75	104.50	535-9371-2-ND	1,000	154.00	AWSZT-20.00MXD-T
	24.00	535-9372-1-ND	.30	2.59	20.35	82.50	535-9372-2-ND	1,000	143.00	AWSZT-24.00MXD-T
					AWSZT-xxxCV-T Series					
2	8.00	535-10020-1-ND	.45	3.90	27.00	114.00	535-10020-2-ND	1,000	168.00	AWSZT-8.00CV-T
	10.00	535-10021-1-ND	.45	3.90	27.00	114.00	535-10021-2-ND	1,000	168.00	AWSZT-10.00CV-T
	11.00	535-10022-1-ND	.45	3.90	27.00	114.00	535-10022-2-ND	1,000	168.00	AWSZT-11.00CV-T
	12.00	535-10023-1-ND	.45	3.90	27.00	114.00	535-10023-2-ND	1,000	168.00	AWSZT-12.00CV-T
	16.00	535-10024-1-ND	.45	3.90	27.00	114.00	535-10024-2-ND	1,000	168.00	AWSZT-16.00CV-T
	16.93	535-10025-1-ND	.45	3.90	27.00	114.00	535-10025-2-ND	1,000	168.00	AWSZT-16.93CV-T
	18.43	535-10026-1-ND	.45	3.90	27.00	114.00	535-10026-2-ND	1,000	168.00	AWSZT-18.43CV-T
	20.00	535-10027-1-ND	.45	3.90	27.00	114.00	535-10027-2-ND	1,000	168.00	AWSZT-20.00CV-T
	24.00	535-10028-1-ND	.45	3.90	27.00	114.00	535-10028-2-ND	1,000	168.00	AWSZT-24.00CV-T
	25.00	535-10029-1-ND	.45	3.90	27.00	114.00	535-10029-2-ND	1,000	168.00	AWSZT-25.00CV-T
	27.00	535-10030-1-ND	.45	3.90	27.00	114.00	535-10030-2-ND	1,000	168.00	AWSZT-27.00CV-T
	30.00	535-10031-1-ND	.56	4.88	33.75	142.50	535-10031-2-ND	1,000	210.00	AWSZT-30.00CV-T
	32.00	535-10032-1-ND	.56	4.88	33.75	142.50	535-10032-2-ND	1,000	210.00	AWSZT-32.00CV-T
	40.00	535-10033-1-ND	.60	5.20	36.00	152.00	535-10033-2-ND	1,000	224.00	AWSZT-40.00CV-T
	48.00	535-10034-1-ND	.60	5.20	36.00	152.00	535-10034-2-ND	1,000	224.00	AWSZT-48.00CV-T
	50.00	535-10035-1-ND	.60	5.20	36.00	152.00	535-10035-2-ND	1,000	224.00	AWSZT-50.00CV-T
					AWSZT-xxxCW-T Series					
2	20.00	535-10045-1-ND	.49	4.23	29.25	123.50	535-10045-2-ND	3,000	175.50/M	AWSZT-20.00CW-T
	24.00	535-10046-1-ND	.49	4.23	29.25	123.50	535-10046-2-ND	3,000	175.50/M	AWSZT-24.00CW-T
	25.00	535-10047-1-ND	.49	4.23	29.25	123.50	535-10047-2-ND	3,000	175.50/M	AWSZT-25.00CW-T
	27.00	535-10048-1-ND	.49	4.23	29.25	123.50	535-10048-2-ND	3,000	175.50/M	AWSZT-27.00CW-T
	30.00	535-10049-1-ND	.49	4.23	29.25	123.50	535-10049-2-ND	3,000	175.50/M	AWSZT-30.00CW-T
	32.00	535-10050-1-ND	.49	4.23	29.25	123.50	535-10050-2-ND	3,000	175.50/M	AWSZT-32.00CW-T
	33.00	535-10051-1-ND	.53	4.55	31.50	133.00	535-10051-2-ND	3,000	189.00/M	AWSZT-33.00CW-T
	40.00	535-10052-1-ND	.53	4.55	31.50	133.00	535-10052-2-ND	3,000	189.00/M	AWSZT-40.00CW-T
	48.00	535-10053-1-ND	.60	5.20	36.00	152.00	535-10053-2-ND	3,000	216.00/M	AWSZT-48.00CW-T

HWZT Series — Leaded Ceramic Resonators

Dim. in mm.

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -40°C ~ 85°C **Features:** • Low resonant impedance • Industrial grade • Excellent environmental resistance

Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	100	500	Abracon Part No.
2.00	535-9381-ND	.28	2.40	16.00	66.40	HWZT-2.00MD
3.58	535-9382-ND	.28	2.40	16.00	66.40	HWZT-3.58MD
6.00	535-9384-ND	.28	2.40	16.00	66.40	HWZT-6.00MD
10.00	535-9377-ND	.22	1.88	14.80	60.00	HWZT-10.00MD
12.00	535-9378-ND	.28	2.40	16.00	66.40	HWZT-12.00MD
16.00	535-9379-ND	.22	1.88	14.80	60.00	HWZT-16.00MD

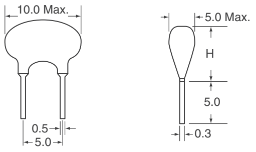

Frequency (MHz)	H (Max.) (mm)
2.00 ~ 13.0	.295 (7.5)
13.01 ~ 20.00	.395 (10.0)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic

Ceramic Resonators - Through Hole

Frequency (MHz)	Digi-Key Part No.	Pricing 1	50	100	500	1,000	Panasonic Part No.
Ceramic Resonators — EFO-MN							
3.00	PX300MN-ND	.97	33.28	57.60	217.61	384.02	EFO-MN3004A4
4.00	PX400MN-ND	.73	21.54	36.92	146.15	246.16	EFO-MN4004A4
5.00	PX500MN-ND	.73	21.54	36.92	146.15	246.16	EFO-MN5004A4

EFO-MN

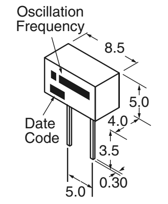

Ceramic Resonators Surface Mount

Features: • Constructed with ceramic package • High reliability against soldering heat and mechanical stress • Moisture-proof sealing • Stable against solvent cleaning • Designed for reflow soldering • Flat-bottom plate for better mountings **Applications:** • Clock generator for various microprocessers • Carrier between telecommunication equipment (telephone to telephone, personal computer to printer, etc.)

Fig. 1

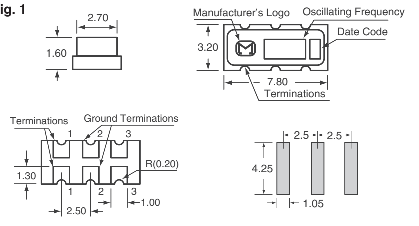

Fig. 2

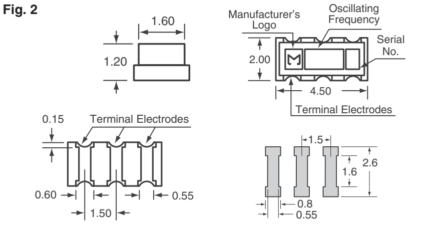

Fig. 3

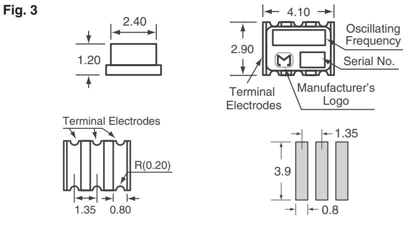

Fig. 4

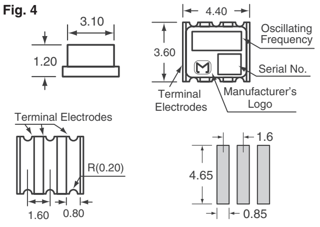

Fig. 5

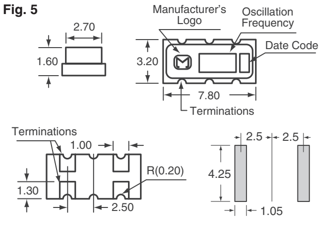

Fig. 6

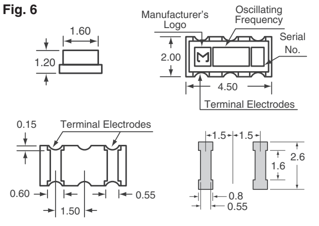

Fig. 7

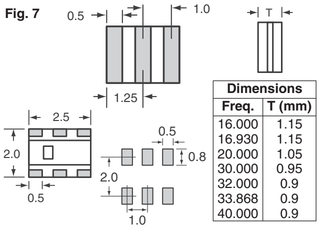

Dimensions

Freq.	T (mm)
16.000	1.15
16.930	1.15
20.000	1.05
30.000	0.95
32.000	0.9
33.868	0.9
40.000	0.9

Fig.	Frequency (MHz)	Freq. Drift -20°C ~ 80°C	Built In Cap	Digi-Key Part No.	Cut Tape Pricing 1	50	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
EFO-S Surface Mount with Built-In Capacitor ±.5%												
1	5.000	±0.2%	33pF	PX500SCT-ND	1.57	62.53	110.94	463.93	PX500STR-ND	2,500	565.00/M	EFO-S5004E5
	8.000	±0.2%	33pF	PX800SCT-ND	.69	27.50	48.78	204.01	PX800STR-ND	2,500	257.00/M	EFO-S8004E5
EFO-SS Surface Mount with Built-in Capacitor ±.5%												
2	4.000	±0.2%	21pF	PX400SSCT-ND	1.00	33.65	61.10	247.93	PX400SSTR-ND	2,000	257.00/M	EFO-SS4004E5
	4.190	±0.2%	21pF	PX419SSCT-ND	1.00	33.65	61.10	247.93	PX419SSTR-ND	2,000	257.00/M	EFO-SS4194E5
	6.000	±0.2%	21pF	PX600SSCT-ND	1.00	33.65	61.10	247.93	PX600SSTR-ND	2,000	257.00/M	EFO-SS6004E5
	10.000	±0.3%	21pF	PX100SSCT-ND	.89	32.76	60.21	221.36	—	—	—	EFO-SS1005E5
EFO-BM Surface Mount with Built-In Capacitor ±.5%												
3	16.930	±0.3%	18pF	PX169BCT-ND	.89	32.83	60.33	221.79	—	—	—	EFO-BM1695E5
EFO-JM Surface Mount with Built-In Capacitor ±.5%												
4	33.868	±0.2%	10pF	PX338JCT-ND	1.00	33.71	61.22	248.41	PX338JTR-ND	1,000	275.00	EFO-JM3385E5
EFO-P Surface Mount ±.5%												
5	4.000	±0.3%	33pF	PX400PCT-ND	.89	32.76	60.21	221.36	—	—	—	EFO-P4004E5
	4.190	±0.3%	33pF	PX419PCT-ND	1.94	69.82	128.01	523.67	PX419PTR-ND	2,500	543.00/M	EFO-P4194E5
	5.000	±0.3%	33pF	PX500PCT-ND	1.98	71.22	130.57	534.14	PX500PTR-ND	2,500	554.00/M	EFO-P5004E5
	6.000	±0.3%	33pF	PX600PCT-ND	1.54	61.33	108.81	455.01	PX600PTR-ND	2,500	554.00/M	EFO-P6004E5
EFO-PS Surface Mount ±.5%												
6	4.000	±0.6%	21pF	PX400PSCT-ND	1.00	33.65	61.10	247.93	PX400PSTR-ND	2,000	257.00/M	EFO-PS4004E5
	4.190	±0.6%	21pF	PX419PSCT-ND	1.00	33.65	61.10	247.93	PX419PSTR-ND	2,000	257.00/M	EFO-PS4194E5
	5.000	±0.6%	21pF	PX500PSCT-ND	1.00	33.65	61.10	247.93	PX500PSTR-ND	2,000	257.00/M	EFO-PS5004E5
	6.000	±0.6%	21pF	PX600PSCT-ND	1.00	33.65	61.10	247.93	PX600PSTR-ND	2,000	257.00/M	EFO-PS6004E5
	8.000	±0.6%	21pF	PX800PSCT-ND	.89	32.76	60.21	221.36	—	—	—	EFO-PS8004E5
	10.000	±1.0%	21pF	PX100PSCT-ND	.89	32.76	60.21	221.36	—	—	—	EFO-PS1005E5
EFJ-C Surface Mount with Built-In Capacitor ±.5%												
7	16.000	±0.2%	8pF	PX160CCT-ND	1.13	30.22	52.88	196.43	—	—	—	EFJ-C1605E5B
	16.930	±0.2%	8pF	PX169CCT-ND	.94	30.22	54.40	219.09	PX169CTR-ND	3,000	227.00/M	EFJ-C1695E5B
	32.000	±0.2%	8pF	PX320CCT-ND	1.13	30.22	52.88	196.43	—	—	—	EFJ-C3205E5B
	33.868	±0.2%	8pF	PX338CCT-ND	.94	30.22	54.40	219.09	PX338CTR-ND	3,000	227.00/M	EFJ-C3385E5B
EFJ-N Surface Mount ±.5%												
7	16.000	±0.2%	—	PX160NCT-ND	.94	30.22	54.40	219.09	PX160NTR-ND	3,000	227.00/M	EFJ-N1605J5B
	16.930	±0.2%	—	PX169NCT-ND	.94	30.22	54.40	219.09	PX169NTR-ND	3,000	227.00/M	EFJ-N1695J5B
	20.000	±0.2%	—	PX200NCT-ND	.94	30.22	54.40	219.09	PX200NTR-ND	3,000	227.00/M	EFJ-N2005J5B
	30.000	±0.2%	—	PX300NCT-ND	.94	30.22	54.40	219.09	PX300NTR-ND	3,000	227.00/M	EFJ-N3005J5B
	32.000	±0.2%	—	PX320NCT-ND	.94	30.22	54.40	219.09	PX320NTR-ND	3,000	227.00/M	EFJ-N3205J5B
	33.868	±0.2%	—	PX338NCT-ND	.59	23.50	41.70	174.37	PX338NTR-ND	3,000	227.00/M	EFJ-N3385J5B
	40.000	±0.2%	—	PX400NCT-ND	.94	30.22	54.40	219.09	PX400NTR-ND	3,000	227.00/M	EFJ-N4005J5B

Panasonic SAW Filters — EFCH Series

Fig. 1

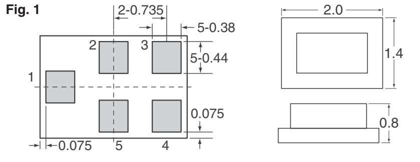

A
Input - Unbalanced
Output - Balanced

Pin Connection	
1	Input
2	GND
3	Output
4	Output
5	GND

B
Input - Unbalanced
Output - Unbalanced

Pin Connection	
1	Input
2	GND
3	GND
4	Output
5	GND

Fig. 2

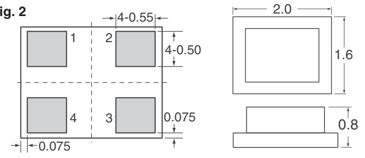

Input - Unbalanced
Output - Unbalanced

Pin Connection	
1	Input
2	GND
3	Output
4	GND

Features: • Small case size based on CSP technology • Low loss with excellent attenuation

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Input/Output Impedance (Ω)	Application	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Panasonic Part No.
1A	1,575.42	1,574.42 ~ 1,576.42	1.1	50/100	GPS Rx Filter	P13012CT-ND	1.57	1.32	1.24	EFCH1575TCA1
	1,960.00	1,930 ~ 1,990	1.5	50/150	PCS1900 Rx Filter	P13002CT-ND	1.57	1.32	1.24	EFCH1960TCA1
	2,140.00	2,110 ~ 2,170	1.8	50/100	WCDMA Rx Filter	P13011CT-ND	1.57	1.32	1.24	EFCH2140TCA1
1B	836.50	824 ~ 849	1.7	50/50	CDMA800 Tx Filter; GSM850 Tx Filter	P13008CT-ND	1.17	.99	.93	EFCH836MTCD1
	881.50	869 ~ 894	1.6	50/50	GSM850 Rx Filter; CDMA800 Rx Filter	P13007CT-ND	1.17	.99	.93	EFCH881MTCD1
	1,842.50	1,805 ~ 1,880	1.9	50/50	DCS1800 Rx Filter	P13005CT-ND	1.57	1.32	1.24	EFCH1842TCD1
	1,950.00	1,920 ~ 1,980	2.3	50/50	WCDMA Tx Filter	P13010CT-ND	1.57	1.32	1.24	EFCH1950TCD1
	1,960.00	1,930 ~ 1,990	1.7	50/50	PCS1900 Rx Filter	P13006CT-ND	1.57	1.32	1.24	EFCH1960TCD1
2	1,575.42	1,573.92 ~ 1,576.92	1.15	50/50	GPS Rx Filter	P13013CT-ND	1.57	1.32	1.24	EFCH1575TCB1

SAW Resonators — EFO-H Series

Capable of fundamental wave oscillation, and it is particularly suited for simplification, size reduction and stabilization of the circuit, compared with conventional LC oscillation and quartz crystal oscillation. **Features:** • Capable of fundamental oscillation • Superior temperature characteristics **Recommended Applications:** • Oscillation circuit for remote control (garage door opener, security system) • Various kinds of local oscillation circuit **Specifications:** • Operating Temperature: -20°C ~ 80°C • Maximum Frequency Drift: -150 ~ 50 ppm/°C (-20°C ~ 80°C) **1 Port Type:** • Resonant Resistance: 30Ω Maximum • Capacitance: 2.0pF ±0.5 **2 Port Type:** • Insertion Loss: 15dB Maximum • Loaded Q: 7,000 Minimum (5,000 Minimum for 418.0 frequency) • Capacitance: 1.3pF ±0.3 • Phase Shift: 180°

Port Type	Frequency (MHz)	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
1 Port Type	224.5 ±0.25%	PX224S1-ND	4.25	165.76	289.01	EFO-H224MS12
1 Port Type	418.0 ±0.25%	PX418S1-ND	4.25	165.76	289.01	EFO-H418MS12
2 Port Type	224.5 ±0.25%	PX224S2-ND	4.25	165.76	289.01	EFO-H224MS03
2 Port Type	418.0 ±0.25%	PX418S2-ND	4.25	165.76	289.01	EFO-H418MS03

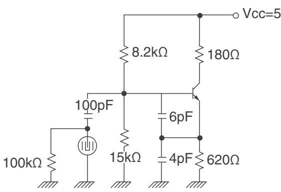

Example Circuit for Reference Only

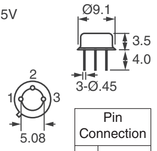

Pin Connection	
1	In/Out
2	Out/In
3	GND

AVX KYOCERA

MHz Band Ceramic Resonators — PBRC and PRQC Series

Specifications: • Operating Temperature: -40°C ~ 85°C **Features:** • Excellent frequency stability • Low profile • Reflow solderable • Excellent solderability (Nickel barrier + gold flash termination) **Applications:** • Automotive and automotive accessories • Camcorders • Digital cameras • PDAs • PC peripherals

Frequency Range (MHz)	Tolerance (25°C)	Temperature Stability	Standard Frequency
2.00 ~ 8.00	±0.5% (op. ±0.3%)	±0.5% (-40°C ~ 85°C)	2.00, 3.58, 3.68, 4.00, 4.19, 6.00, 8.00
8.01 ~ 20.00	±0.7% (op. ±0.5%)	±0.1% (-40°C ~ 85°C)	10.0, 12.0, 16.0, 20.0

Fig. 1

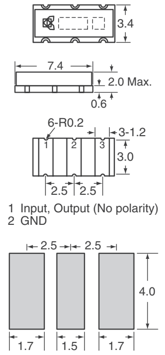

Fig. 2

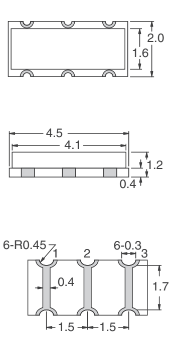

Fig. 3

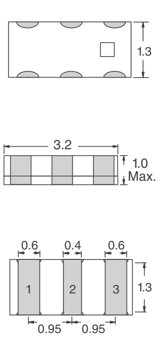

Fig.	Freq-uency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
PBRC Series									
1	2.00	478-5188-1-ND	.86	.75	.58	478-5188-2-ND	2,000	403.00/M	PBRC2.00HR50X000
	3.58	478-2106-1-ND	.56	.49	.38	478-2106-2-ND	2,000	262.50/M	PBRC3.58HR50X000
	3.68	478-5189-1-ND	.47	.41	.32	478-5189-2-ND	2,000	219.00/M	PBRC3.68HR50X000
	4.00	478-2107-1-ND	.56	.49	.38	478-2107-2-ND	2,000	262.50/M	PBRC-4.00HR50X000
	4.00	478-5190-1-ND	.47	.41	.32	478-5190-2-ND	2,000	263.00/M	PBRC-4.00HR50X000
	4.19	478-2108-1-ND	.56	.49	.38	478-2108-2-ND	2,000	262.50/M	PBRC4.19HR50X000
	6.00	478-2109-1-ND	.56	.49	.38	478-2109-2-ND	2,000	262.50/M	PBRC6.00HR50X000
	8.00	478-2110-1-ND	.56	.49	.38	478-2110-2-ND	2,000	262.50/M	PBRC-8.00HR50X000
	8.00	478-5191-1-ND	.54	.48	.37	478-5191-2-ND	2,000	263.00/M	PBRC-8.00HR50X000
	10.00	478-2111-1-ND	1.13	.98	.75	478-2111-2-ND	2,000	525.00/M	PBRC10.00HR50X000
	12.00	478-2112-1-ND	.86	.75	.58	478-2112-2-ND	2,000	402.50/M	PBRC12.00HR50X000
	16.00	478-2113-1-ND	.94	.82	.63	478-2113-2-ND	2,000	437.50/M	PBRC16.00HR50X000
	20.00	478-2114-1-ND	.94	.82	.63	478-2114-2-ND	2,000	437.50/M	PBRC20.00HR50X000
2	4.00	478-4580-1-ND	.56	.49	.45	478-4580-2-ND	3,000	263.00/M	PBRC4.00MR50X000
	4.19	478-5414-1-ND	.49	.43	.39	478-5414-2-ND	3,000	228.00/M	PBRC4.19MR50X000
	4.91	478-5415-1-ND	.49	.43	.39	478-5415-2-ND	3,000	228.00/M	PBRC4.91MR50X000
	5.00	478-4581-1-ND	.56	.49	.45	478-4581-2-ND	3,000	263.00/M	PBRC5.00MR50X000
	6.00	478-4582-1-ND	.56	.49	.45	478-4582-2-ND	3,000	263.00/M	PBRC6.00MR50X000
	7.37	478-4583-1-ND	.56	.49	.45	478-4583-2-ND	3,000	263.00/M	PBRC7.37MR50X000
	8.00	478-5416-1-ND	.56	.49	.45	478-5416-2-ND	3,000	263.00/M	PBRC8.00MR50X000
	10.00	478-5417-1-ND	.68	.59	.54	478-5417-2-ND	3,000	315.00/M	PBRC10.00MR50X000
	12.00	478-5418-1-ND	.68	.59	.54	478-5418-2-ND	3,000	315.00/M	PBRC12.00MR50X000
	16.00	478-5419-1-ND	.75	.65	.60	478-5419-2-ND	3,000	350.00/M	PBRC16.00MR50X000
PRQC Series									
3	8.00	478-4584-1-ND	.56	.49	.45	478-4584-2-ND	3,000	263.00/M	PRQC8.00SR5010X000
	16.00	478-5420-1-ND	.60	.52	.48	478-5420-2-ND	3,000	280.00/M	PRQC16.00SR5010X000

SAW Filters — SF14 Series

Specification:
- Storage Temperature: -40°C ~ 85°C

Application:
- GSM

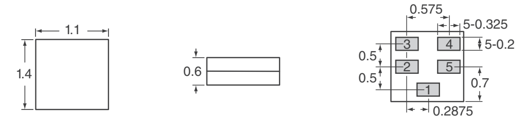

Pin	Function
1	Input
2	GND
3	GND
4	Output
5	GND

Nominal Frequency (GHz)	Passband (GHz)	Maximum Insertion Loss (dB)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	AVX Part No.
1.57542	1.57392 ~ 1.57692	1.2	-40°C ~ 85°C	478-5246-1-ND	2.00	1.63	1.25	478-5246-2-ND	750.00/M	SF14-1575F5UU19
1.57542	1.57392 ~ 1.57692	1.8	-40°C ~ 85°C	478-5247-1-ND	2.00	1.63	1.25	478-5247-2-ND	750.00/M	SF14-1575F5UU15
1.57542	1.57442 ~ 1.57642	1.6	-30°C ~ 85°C	478-5248-1-ND	2.00	1.63	1.25	478-5248-2-ND	750.00/M	SF14-1575M5UB06

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX KYOCERA

PARS Series (SAW Resonators)

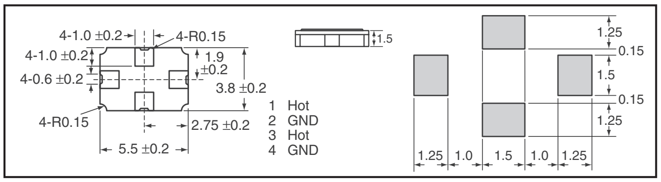

Specifications: • **Operating Temperature:** -40°C ~ 85°C **Features:** • Low profile • Highly reliable SMD ceramic package • Excellent temperature characteristics **Applications:** • Keyless entry systems (automotive) • Garage door openers • Security systems • 1 port type SMD resonator

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	AVX Part No.
315.00	478-2115-1-ND	2.10	1.80	1.41	478-2115-2-ND	840.00/M	PARS315.00K04R
418.00	478-2116-1-ND	2.10	1.80	1.41	478-2116-2-ND	840.00/M	PARS418.00K04R
433.92	478-2117-1-ND	2.10	1.80	1.41	478-2117-2-ND	840.00/M	PARS433.92K04R

muRata *Innovator in Electronics*

Murata Electronics

Ceramic Resonators - Surface Mount

Fig. 1

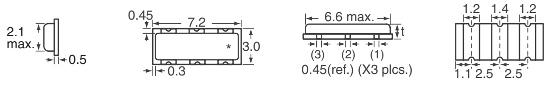

Fig. 2

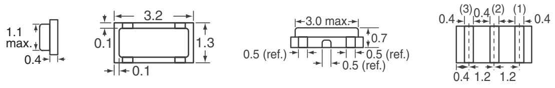

Fig. 3

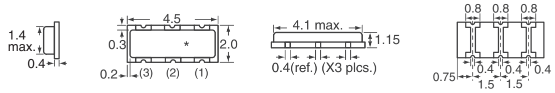

Fig. 4

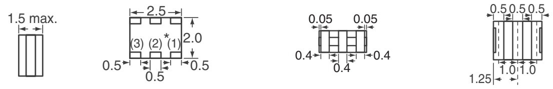

Fig.	Frequency (MHz)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	Murata Part No.
			CSTCC–G Series - Commercial						
1	2.00	-20°C ~ 80°C	490-1193-1-ND	.64	.53	.42	2,000	320.00/M	CSTCC2M00G53-R0
	3.58	-20°C ~ 80°C	490-1194-1-ND	.56	.47	.36	2,000	280.00/M	CSTCC3M58G53-R0
			CSTCC–G Series - Industrial						
1	2.00	-40°C ~ 125°C	490-1216-1-ND	.67	.58	.46	2,000	269.00/M	CSTCC2M00G53Z-R0
			CSTCE–G and CSTCR-G Series - Commercial						
2	8.00	-20°C ~ 80°C	490-1195-1-ND	.48	.40	.31	3,000	241.00/M	CSTCE8M00G55-R0
	10.00	-20°C ~ 80°C	490-1196-1-ND	.48	.40	.31	3,000	241.00/M	CSTCE10M0G55-R0
	12.00	-20°C ~ 80°C	490-1197-1-ND	.48	.40	.31	3,000	241.00/M	CSTCE12M0G55-R0
3	4.00	-20°C ~ 80°C	490-1200-1-ND	.44	.37	.29	3,000	218.00/M	CSTCR4M00G53-R0
	4.19	-20°C ~ 80°C	490-1201-1-ND	.44	.37	.29	3,000	218.00/M	CSTCR4M19G53-R0
	4.91	-20°C ~ 80°C	490-1202-1-ND	.44	.37	.29	3,000	218.00/M	CSTCR4M91G53-R0
	5.00	-20°C ~ 80°C	490-1203-1-ND	.44	.37	.29	3,000	218.00/M	CSTCR5M00G53-R0
	6.00	-20°C ~ 80°C	490-1204-1-ND	.44	.37	.29	3,000	218.00/M	CSTCR6M00G53-R0
			CSTCE–G and CSTCR-G Series - Industrial						
2	8.00	-40°C ~ 125°C	490-1219-1-ND	.51	.43	.33	3,000	256.00/M	CSTCE8M00G55Z-R0
	10.00	-40°C ~ 125°C	490-4715-1-ND	.55	.48	.44	3,000	256.00/M	CSTCE10M0G55Z-R0
	12.00	-40°C ~ 125°C	490-1220-1-ND	.51	.43	.33	3,000	256.00/M	CSTCE12M0G55Z-R0
3	4.00	-40°C ~ 125°C	490-1217-1-ND	.47	.39	.30	3,000	187.00/M	CSTCR4M00G53Z-R0
	4.19	-40°C ~ 125°C	490-4718-1-ND	.50	.44	.40	3,000	233.00/M	CSTCR4M19G53Z-R0
	4.91	-40°C ~ 125°C	490-4719-1-ND	.50	.44	.40	3,000	233.00/M	CSTCR4M91G53Z-R0
	5.00	-40°C ~ 125°C	490-4720-1-ND	.50	.44	.40	3,000	233.00/M	CSTCR5M00G53Z-R0
	6.00	-40°C ~ 125°C	490-1218-1-ND	.47	.39	.30	3,000	233.00/M	CSTCR6M00G53Z-R0
			CSTCE–V Series - Commercial						
2	16.00	-20°C ~ 80°C	490-1198-1-ND	.50	.42	.33	3,000	252.00/M	CSTCE16M0V53-R0
	20.00	-20°C ~ 80°C	490-1199-1-ND	.50	.42	.33	3,000	252.00/M	CSTCE20M0V53-R0
			CSTCE–V Series - Industrial						
2	16.00	-40°C ~ 125°C	490-4716-1-ND	.73	.64	.59	3,000	341.00/M	CSTCE16M0V53Z-R0
	20.00	-40°C ~ 125°C	490-4717-1-ND	.61	.53	.49	3,000	286.00/M	CSTCE20M0V53Z-R0
			CSTCW–X Series - Commercial						
4	24.00	-20°C ~ 80°C	490-1205-1-ND	.30	.25	.20	3,000	149.00/M	CSTCW24M0X53-R0
	48.00	-20°C ~ 80°C	490-1206-1-ND	.30	.25	.20	3,000	149.00/M	CSTCW48M0X51-R0

* For Tape & Reel part number, change 1-ND to 2-ND.

Ceramic Resonators - Leaded

Fig. 1

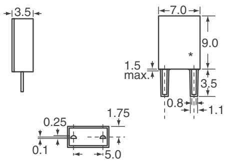

Fig. 2

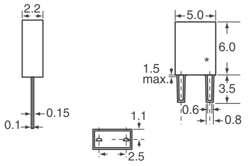

Fig. 3

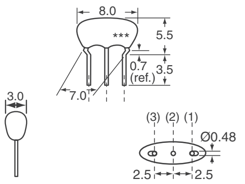

Fig. 4

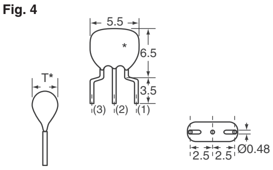

* T = 3.5±1.0 (16.00 - 32.99MHz)
T = 3.0±1.0 (33.00 - 70.00MHz)

Fig.	Frequency	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
			CSBLA Series - Commercial				
1	400.00kHz	-20°C ~ 80°C	490-1186-ND	.53	.44	.34	CSBLA400KECE-B0
	455.00kHz	-20°C ~ 80°C	490-1187-ND	.47	.40	.31	CSBLA455KEC8-B0
	480.00kHz	-20°C ~ 80°C	490-1188-ND	.47	.40	.31	CSBLA480KEC8-B0
	500.00kHz	-20°C ~ 80°C	490-1189-ND	.53	.45	.35	CSBLA500KEC8-B0
	540.00kHz	-20°C ~ 80°C	490-1190-ND	.64	.53	.42	CSBLA540KEC8-B0
	640.00kHz	-20°C ~ 80°C	490-1191-ND	.64	.53	.42	CSBLA640KEC8-B0
2	800.00kHz	-20°C ~ 80°C	490-1192-ND	.82	.69	.54	CSBLA800KJ58-B0
	1.00MHz	-20°C ~ 80°C	490-1185-ND	.56	.47	.37	CSBLA1M00J58-B0
			CSTLS Series - Commercial				
3	3.58MHz	-20°C ~ 80°C	490-1207-ND	.24	.20	.16	CSTLS3M58G53-B0
	4.00MHz	-20°C ~ 80°C	490-1208-ND	.23	.20	.16	CSTLS4M00G53-B0
	4.19MHz	-20°C ~ 80°C	490-1209-ND	.24	.20	.16	CSTLS4M19G53-B0
	5.00MHz	-20°C ~ 80°C	490-1210-ND	.24	.20	.16	CSTLS5M00G53-B0
	6.00MHz	-20°C ~ 80°C	490-1211-ND	.24	.20	.16	CSTLS6M00G53-B0
	8.00MHz	-20°C ~ 80°C	490-1212-ND	.24	.20	.16	CSTLS8M00G53-B0
	10.00MHz	-20°C ~ 80°C	490-1213-ND	.25	.21	.17	CSTLS10M0G53-B0
4	16.00MHz	-20°C ~ 80°C	490-1214-ND	.44	.37	.29	CSTLS16M0X55-B0
	20.00MHz	-20°C ~ 80°C	490-1215-ND	.50	.42	.32	CSTLS20M0X53-B0
	50.00MHz	-20°C ~ 80°C	490-2606-ND	.50	.42	.32	CSTLS50M0X51-B0
			CSTLS Series - Industrial				
3	4.00MHz	-40°C ~ 125°C	490-1221-ND	.29	.24	.19	CSTLS4M00G53Z-B0
	6.00MHz	-40°C ~ 125°C	490-1222-ND	.28	.24	.19	CSTLS6M00G53Z-B0
	8.00MHz	-40°C ~ 125°C	490-1223-ND	.29	.25	.19	CSTLS8M00G53Z-B0

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Ceramic Filters

SFECV10M7 Series for FM receivers are monolithic type ceramic filters which utilize the thickness expander mode of the piezoelectric ceramic.

Fig. 1 — SFECV

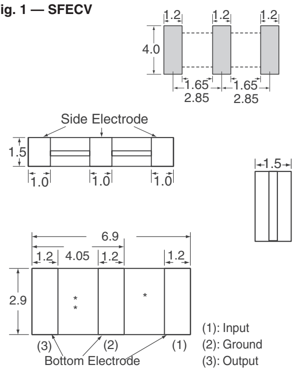

Fig. 2 — SFSCE

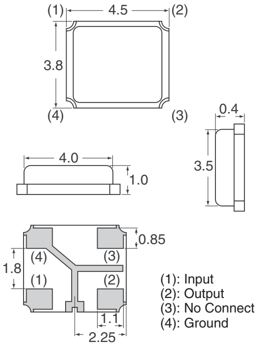

Fig. 3 — SFECF

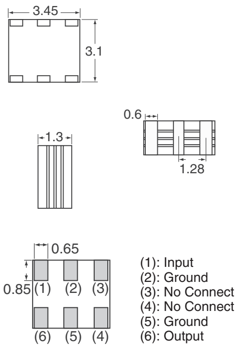

Fig. 4 — SFELF and SFVLF

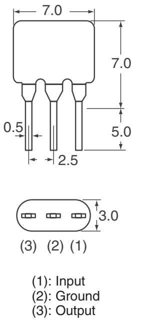

Fig. 5 — SFKLF

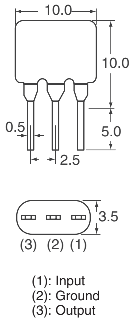

Frequency (MHz)	Attenuation (Min) @ Frequency	Bandwidth (kHz)	Insertion Loss (dB)	Attenuation (dB)	Input/Output Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Qty.	Pricing	
Fig. 1 — SFECV													
10.7 ±30kHz	20dB @ 320kHz	110	6	35	330/330	490-1229-1-ND	1.26	1.10	.85	490-1229-2-ND	2,000	589.00/M	SFECV10M7KA00-R0
10.7 ±30kHz	20dB @ 380kHz	150	5.5	35	330/330	490-1230-1-ND	.97	.85	.65	490-1230-2-ND	2,000	454.00/M	SFECV10M7JA00-R0
10.7 ±40kHz	20dB @ 950kHz	500	2	20	470/470	490-1231-1-ND	2.26	1.96	1.51	490-1231-2-ND	2,000	1052.00/M	SFECV10M7CQ0C01-R0
Fig. 2 — SFSCE													
10.7	20dB @ 2.2MHz	500	2	30/25	470/470	490-4675-1-ND	1.88	1.64	1.51	490-4675-2-ND	1,500	878.00/M	SFSCE10M7WF03-R0
10.7	20dB @ 1.8MHz	400	1.5	30/25	470/470	490-4676-1-ND	1.88	1.64	1.51	490-4676-2-ND	1,500	878.00/M	SFSCE10M7WF04-R0
10.7	20dB @ 1.7MHz	325	1.5	40/30	470/470	490-4677-1-ND	1.89	1.64	1.51	490-4677-2-ND	1,500	880.00/M	SFSCE10M7WF05-R0
Fig. 3 — SFECF													
10.7	20dB @ 990kHz	150	6	20	330/330	490-4678-1-ND	1.20	1.04	.96	490-4678-2-ND	2,000	558.00/M	SFECF10M7DF00-R0
10.7 ±30kHz	20dB @ 700kHz	330	3	30	330/330	490-4679-1-ND	1.21	1.05	.97	490-4679-2-ND	2,000	565.00/M	SFECF10M7EA00-R0
10.7 ±30kHz	20dB @ 590kHz	280	3	30	330/330	490-4680-1-ND	1.05	.92	.85	490-4680-2-ND	2,000	491.00/M	SFECF10M7FA00-R0
10.7 ±30kHz	20dB @ 510kHz	230	3.5	30	330/330	490-4681-1-ND	1.05	.92	.85	490-4681-2-ND	2,000	491.00/M	SFECF10M7GA00-R0
10.7 ±30kHz	20dB @ 470kHz	180	4	30	330/330	490-4682-1-ND	1.05	.92	.85	490-4682-2-ND	2,000	491.00/M	SFECF10M7HA00-R0
Fig. 4 — SFELF													
10.7	20dB @ 950kHz	175	3	20	470/470	490-4705-ND†	.61	.51	.40	—	—	—	SFELF10M7DF00-B0
10.7 ±30kHz	20dB @ 680kHz	330	4	30	330/330	490-4706-ND†	.45	.38	.29	—	—	—	SFELF10M7EA00-B0
10.7 ±30kHz	20dB @ 650kHz	280	4	30	330/330	490-4707-ND†	.31	.26	.20	—	—	—	SFELF10M7FA00-B0
10.7 ±30kHz	20dB @ 570kHz	230	4	40	330/330	490-4708-ND†	.31	.26	.20	—	—	—	SFELF10M7GA00-B0
10.7 ±30kHz	20dB @ 520kHz	180	7	40	330/330	490-4709-ND†	.36	.30	.23	—	—	—	SFELF10M7HA00-B0
10.7 ±30kHz	20dB @ 360kHz	150	4.5	35	330/330	490-4710-ND†	.43	.36	.28	—	—	—	SFELF10M7JAA0-B0
10.7 ±30kHz	20dB @ 350kHz	110	7	45/30	330/330	490-4711-ND†	.64	.53	.41	—	—	—	SFELF10M7KAB0-B0
Fig. 4 — SFVLF													
10.7	—	25	5.5	30	330/330	490-4712-ND†	1.78	1.48	1.15	—	—	—	SFVLF10M7LF00-B0
10.7	20dB @ 135kHz	13	5	35	330/330	490-4713-ND†	1.81	1.50	1.17	—	—	—	SFVLF10M7MF00-B0
Fig. 5 — SFKLF													
10.7 ±15kHz	20dB @ 95kHz	20	6	24	600/600	490-4714-ND†	1.94	1.61	1.25	—	—	—	SFKLF10M7NL00-B0

† Bulk

Ceramic Discriminator

CDSCB and CDALF Series:
They form a resonator on a piezoelectric ceramic substrate. In combination with ICs, these types obtain stable demodulation characteristics in a wide bandwidth.

Fig. 1

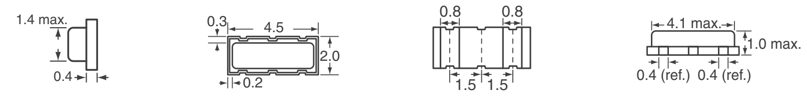

Fig. 2

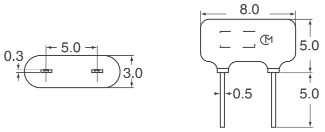

Fig.	Frequency (MHz)	Min. Recovered Audio	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Murata Part No.
				1	10	100			
1	10.7	40mV	490-4721-1-ND	.87	.76	.70	490-4721-2-ND	408.00/M	CDSCB10M7GA042-R0
	10.7	67mV	490-4723-1-ND	.92	.80	.74	490-4723-2-ND	430.00/M	CDSCB10M7GA085-R0
	10.7	75mV	490-1240-1-ND	.92	.76	.59	490-1240-2-ND	458.00/M	CDSCB10M7GA119-R0
	10.7	75mV	490-4726-1-ND	.98	.86	.79	490-4726-2-ND	458.00/M	CDSCB10M7GA135-R0
	10.7	75mV	490-4727-1-ND	.99	.86	.79	490-4727-2-ND	461.00/M	CDSCB10M7GA135S-R0
	10.7	110mV	490-4725-1-ND	.92	.80	.74	490-4725-2-ND	430.00/M	CDSCB10M7GA105A-R0
	10.7	130mV	490-4724-1-ND	.92	.80	.74	490-4724-2-ND	430.00/M	CDSCB10M7GA096-R0
	10.7	—	490-4722-1-ND	.87	.76	.70	490-4722-2-ND	408.00/M	CDSCB10M7GA061-R0
	10.7	—	490-4728-1-ND	.87	.76	.70	490-4728-2-ND	408.00/M	CDSCB10M7GF123-R0
	10.7	—	490-4729-1-ND	.99	.86	.79	490-4729-2-ND	461.00/M	CDSCB10M7GF123S-R0
2	10.7	50mV	490-4730-ND‡	.52	.44	.34	—	—	CDALF10M7GA042-B0
	10.7	70mV	490-4732-ND‡	.51	.43	.33	—	—	CDALF10M7GA085-B0
	10.7	110mV	490-4733-ND‡	.55	.46	.36	—	—	CDALF10M7GA096-B0
	10.7	130mV	490-4734-ND‡	.47	.40	.31	—	—	CDALF10M7GA105A-B0
	10.7	180mV	490-4731-ND‡	.55	.46	.36	—	—	CDALF10M7GA084-B0

‡ Bulk

Ceramic Resonators — Leaded

Dim. in mm

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature Range: -40°C ~ 85°C
Features: • The FCR series provide a high degree of stability between the quartz oscillator and the LC or RC oscillating circuits • Temperature Characteristics: -20°C ~ 85°C

Fig.	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	Tape and Box Pricing 1,500	TDK Part No.
				FCR Series				
1	16.00	445-1646-ND	.39	3.24	25.13	—	—	FCR16.0M2G
2	4.00	445-1642-ND	.30	2.51	19.50	—	—	FCR4.0M5
	4.19	445-1643-ND	.30	2.51	19.50	—	—	FCR4.19M5
	6.00	445-1644-ND	.30	2.51	19.50	—	—	FCR6.0M5
	8.00	445-1645-ND	.31	2.56	19.87	—	—	FCR8.0M5
3	4.00	445-1638-ND	.31	2.56	19.87	—	—	FCR4.0MC5
	4.19	445-1639-ND	.31	2.56	19.87	—	—	FCR4.19MC5
	6.00	445-1640-ND	.31	2.56	19.87	—	—	FCR6.0MC5
	8.00	445-1641-ND	.33	2.71	21.00	—	—	FCR8.0MC5
4	16.00	445-2568-1-ND‡	.34	3.08	25.63	445-2568-3-ND	171.00/M	FCR16.0M6T
	18.00	445-2569-1-ND‡	.34	3.08	25.63	445-2569-3-ND	171.00/M	FCR18.0M6T
	18.43	445-2570-1-ND‡	.34	3.08	25.63	—	—	FCR18.43M6T
	24.00	445-2571-1-ND‡	.34	3.08	25.63	445-2571-3-ND	171.00/M	FCR24.0M6T
	25.00	445-2572-1-ND‡	.34	3.08	25.63	—	—	FCR25.0M6T

‡ Cut Tape

Fig. 1

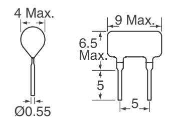

Fig. 2

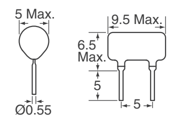

Fig. 3

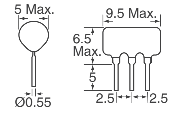

Fig. 4

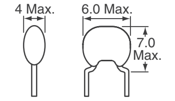

Ceramic Resonators — Surface Mount

Dim. in mm

Features: • These are thin type ceramic chip resonators • 3rd overtone thickness mode elements are used for both the 4.00MHz ~ 10.00MHz and the 16.93MHz ~ 48.00MHz band • Built-in load capacitance

Fig. 1 ***NEW!***

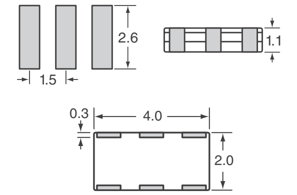

Fig. 2 ***NEW!***

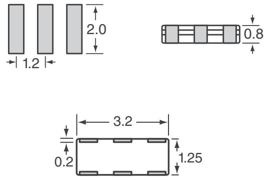

Fig. 3

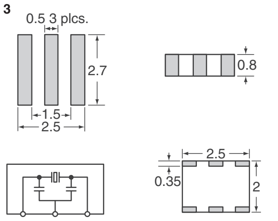

Fig. 4 ***NEW!***

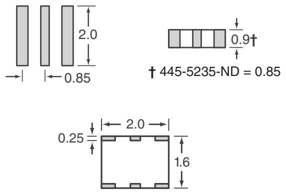

Fig.	Frequency (MHz)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
					CCR Series					
1	4.00	-40°C ~ 85°C	445-5230-1-ND ***NEW!***	.54	.47	.36	445-5230-2-ND ***NEW!***	2,000	250.25/M	CCR4.0MUC8T
	6.00	-40°C ~ 85°C	445-5231-1-ND ***NEW!***	.54	.47	.36	445-5231-2-ND ***NEW!***	2,000	250.25/M	CCR6.0MUC8T
2	8.00	-40°C ~ 85°C	445-5232-1-ND ***NEW!***	.48	.42	.32	445-5232-2-ND ***NEW!***	2,000	222.25/M	CCR8.0MXC8T
	10.00	-40°C ~ 85°C	445-5233-1-ND ***NEW!***	.48	.42	.32	445-5233-2-ND ***NEW!***	2,000	222.25/M	CCR10.0MXC8T
3	16.93	-40°C ~ 85°C	445-1648-1-ND	.63	.55	.43	445-1648-2-ND	2,000	294.58/M	CCR16.93MXC7T
	20.00	-40°C ~ 85°C	445-1649-1-ND	.63	.55	.43	445-1649-2-ND	2,000	294.58/M	CCR20.0MXC7T
	25.00	-40°C ~ 85°C	445-1650-1-ND	.63	.55	.43	445-1650-2-ND	2,000	294.58/M	CCR25.0MXC7T
	30.00	-40°C ~ 85°C	445-1651-1-ND	.60	.52	.40	445-1651-2-ND	2,000	280.00/M	CCR30.0MXC7T
	33.86	-40°C ~ 85°C	445-1652-1-ND	.60	.52	.40	445-1652-2-ND	2,000	280.00/M	CCR33.86MXC7T
	48.00	-40°C ~ 85°C	445-1654-1-ND	1.09	.95	.73	445-1654-2-ND	2,000	507.50/M	CCR48.0MXC7A15T
4	24.00	-40°C ~ 85°C	445-5234-1-ND ***NEW!***	.56	.49	.38	445-5234-2-ND ***NEW!***	3,000	262.50/M	CCR24.0MYC7B05T1
	27.12	-40°C ~ 85°C	445-5235-1-ND ***NEW!***	.56	.49	.38	445-5235-2-ND ***NEW!***	3,000	262.50/M	CCR27.12MYC7B05T1
					NEW! CCR Series — Automotive NEW!					
1	4.00	-40°C ~ 105°C	445-5236-1-ND	.64	.56	.43	445-5236-2-ND	2,000	300.65/M	CCR4.0MUC8WT
	6.00	-40°C ~ 105°C	445-5237-1-ND	.64	.56	.43	445-5237-2-ND	2,000	300.65/M	CCR6.0MUC8WT
2	8.00	-40°C ~ 105°C	445-5238-1-ND	.57	.50	.39	445-5238-2-ND	2,000	267.23/M	CCR8.0MXC8WT

Ceramic Filter — Leaded

Dim. in mm

Center Frequency (MHz)	Center Frequency Tolerance	Insertion Loss Max. (dB)	SPR Attenuation Min. (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Box Pricing 1,800	TDK Part No.
					FFE Series					
10.700	±20kHz	7.0	35	445-4830-1-ND	.56	.49	.45	445-4830-3-ND	225.00/M	FFE1070MS10RBL

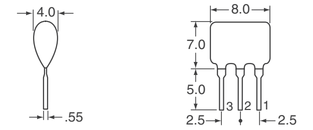

SAW Bandpass Filters

Dim. in mm

Fig.	Frequency (MHz)	Insertion Loss (dB)	Bandwidth (MHz)	Digi-Key Part No.	Price Each 1	25	50	100	Epcos Part No.
1	36.125	17.6	6.0	495-1947-5-ND	1.88	1.63	1.50	1.25	B39361X6865N201
	43.75	14.8	6.0	495-1952-5-ND	3.00	2.60	2.40	2.00	B39438X6964M100
	43.75	14.8	6.0	495-1953-5-ND	3.15	2.73	2.52	2.10	B39438X6964N201
2	36.125	—	8.0	495-4214-5-ND ***NEW!***	1.88	1.63	1.50	1.25	B39361X6966M100
	44	14.7	6.0	495-1691-5-ND	3.15	2.73	2.52	2.10	B39440X6965N201
	44	16.2	8.0	495-1954-5-ND	1.35	1.17	1.08	.90	B39440X6855M100
	44	20.0	6.5	495-1690-5-ND	3.15	2.73	2.52	2.10	B39440X6941N201

Fig. 1

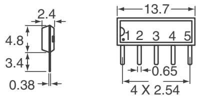

Pin Configuration	
1	Input
2	Input - Ground
3	Chip Carrier - Ground
4	Output
5	Output

Fig. 2

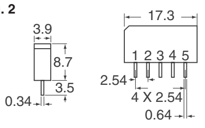

Pin Configuration	
1	Input
2	Input - Ground
3	Chip Carrier - Ground
4	Output
5	Output

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPCOS

SAW Resonators — Surface Mount

Applications: In remote control applications, SAW resonators provide stable frequencies for the RF carrier signal to transmit data over a range of 10-300m or for the local oscillators of superhet receivers.
Note: Tighter tolerances are available upon request.

Fig.	No. of Ports	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Epcos Part No.
				1	10	100		Qty.	Pricing	
1	1	315	495-3698-1-ND	1.19	1.07	.90	—	—	—	B39321R961H110
	1	433.92	495-2380-1-ND	1.26	1.14	.95	495-2380-2-ND	9,000	590.00/M	B39431R900U410
	1	433.92	495-2392-1-ND	1.71	1.54	1.29	495-2392-2-ND	9,000	700.00/M	B39431R960H110
	1	433.92	495-2381-1-ND	1.08	.98	.82	495-2381-2-ND	9,000	506.00/M	B39431R980U410
2	1	314.875; 315.125	495-2368-1-ND†	4.54	4.09	3.41	—	—	—	B39311R771U310
	1	433.81; 434.06	495-2377-1-ND†	4.54	4.09	3.41	495-2377-2-ND†	3,000	1442.00/M	B39431R770U310
	2	311.063	495-2344-1-ND	2.43	2.19	1.83	495-2344-2-ND	3,000	1215.00/M	B39311R2710U310
	2	315	495-2346-1-ND	2.43	2.19	1.83	495-2346-2-ND	3,000	1015.00/M	B39321R2704U310
	2	418.05	495-2375-1-ND	2.03	1.83	1.53	495-2375-2-ND	3,000	1015.00/M	B39421R2702U310
	2	433.92	495-2349-1-ND	2.43	2.19	1.83	—	—	—	B39431R2701U310
	2	804.5	495-2384-1-ND	2.43	2.19	1.83	—	—	—	B39801R2712U310
	2	868.35	495-2385-1-ND	2.43	2.19	1.83	495-2385-2-ND	3,000	1015.00/M	B39871R2711U310
	2	915	495-1675-1-ND	1.77	1.60	1.33	—	—	—	B39921R2706U310
3	1	303.825	495-2365-1-ND	1.50	1.36	1.13	495-2365-2-ND	3,000	632.00/M	B39301R807H210
	1	304.3	495-2343-1-ND	1.85	1.67	1.39	—	—	—	B39301R852H210
	1	314.5	495-2367-1-ND	2.22	2.01	1.67	—	—	—	B39311R854H210
	1	315	495-1669-1-ND	.99	.90	.75	—	—	—	B39321R801H210
	1	433.42	495-2348-1-ND	.99	.90	.75	495-2348-2-ND	3,000	632.00/M	B39431R806H210
	1	433.92	495-2350-1-ND	1.26	1.14	.95	495-2350-2-ND	3,000	632.00/M	B39431R880H210
	1	433.94	495-2379-1-ND	1.85	1.67	1.39	495-2379-2-ND	3,000	925.00/M	B39431R850H210
	1	868.35	495-3697-1-ND	2.88	2.60	2.17	—	—	—	B39871R858H210

† 2 resonators in 1 housing

Fig. 1

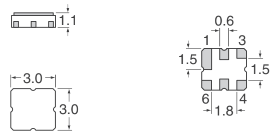

Fig. 2

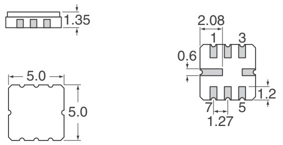

Fig. 3

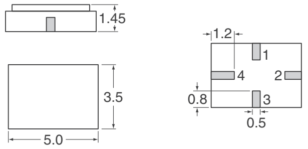

SAW Filters — Surface Mount

Applications: The front-end SAW filter in the receiver eliminates interference from the incoming RF signal, thus increasing selectivity and sensitivity in short-range devices.
Note: Tighter tolerances are available upon request.

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Epcos Part No.
					1	10	100		Qty.	Pricing	
1	312.2	311.9 ~ 312.5	1.8	495-2354-1-ND	1.53	1.38	1.16	495-2354-2-ND	9,000	716.00/M	B39311B3712U410
	315	314.7 ~ 315.3	1.7	495-1667-1-ND	1.29	1.16	.97	495-1667-2-ND	9,000	601.00/M	B39321B3711U410
	315	314.85 ~ 315.15	2.4	495-2619-1-ND	2.33	2.10	1.75	—	—	—	B39321B3731H110
	433.92	433 ~ 434.71	2.0	495-1870-1-ND	1.29	1.16	.97	495-1870-2-ND	9,000	571.00/M	B39431B3710U410
	433.92	433.7 ~ 434.14	2.4	495-3691-1-ND	1.71	1.55	1.29	495-3691-2-ND	9,000	800.00/M	B39431B3730H110
	433.92	433.7 ~ 434.14	2.2	495-3693-1-ND	1.71	1.55	1.29	—	—	—	B39431B3736H110
	400	399.875 ~ 400.125	2.3	495-3923-1-ND	1.71	1.55	1.29	495-3923-2-ND	9,000	800.00/M	B39401B3742H110
	864	862.5 ~ 865.5	4.0	495-2353-1-ND	1.71	1.55	1.29	495-2353-2-ND	9,000	800.00/M	B39861B3563U410
	866.5	865 ~ 868	2.1	495-3734-1-ND	1.71	1.55	1.29	495-3734-2-ND	9,000	800.00/M	B39871B3717U410
	868.3	868.15 ~ 868.45	3.2	495-3692-1-ND	2.33	2.10	1.75	495-3692-2-ND	9,000	1086.00/M	B39871B3734H110
	869	868 ~ 870	2.4	495-2361-1-ND	1.29	1.16	.97	495-2361-2-ND	9,000	601.00/M	B39871B3715U410
	915	902 ~ 928	2.9	495-1674-1-ND	1.19	1.07	.90	495-1674-2-ND	9,000	554.00/M	B39921B3588U410
	916	914.25 ~ 917.75	2.4	495-3690-1-ND	1.71	1.55	1.29	495-3690-2-ND	9,000	800.00/M	B39921B3718U410
	1575.42	1574.22 ~ 1576.62	1.3	495-2363-1-ND	1.53	1.38	1.16	495-2363-2-ND	9,000	716.00/M	B39162B3520U410
	1575.42	1574.42 ~ 1576.42	3.2	495-3689-1-ND	1.53	1.38	1.16	495-3689-2-ND	9,000	716.00/M	B39162B3521U410
	1575.42	1574.22 ~ 1576.62	3.3	495-3699-1-ND	1.53	1.38	1.16	—	—	—	B39162B4050U510
2	1575.42	1574.22 ~ 1576.62	1.3	495-2341-1-ND	2.33	2.10	1.75	495-2341-2-ND	9,000	716.00/M	B39162B4060U810
3	303.8	303.62 ~ 303.98	3.0	495-2325-1-ND	3.62	3.26	2.72	—	—	—	B39301B3553U310
	311.06	310.94 ~ 311.18	2.0	495-2326-1-ND	3.62	3.26	2.72	495-2326-2-ND	3,000	1487.00/M	B39311B3577U310
	315	314.84 ~ 315.16	2.1	495-2329-1-ND	2.84	2.56	2.14	—	—	—	B39321B3751U310
	315	314.9 ~ 315.1	3.3	495-2327-1-ND	3.24	2.92	2.44	—	—	—	B39321B3576U310
	345.03	344.9 ~ 345.1	2.0	495-2330-1-ND	3.62	3.26	2.72	495-2330-2-ND	3,000	1487.00/M	B39351B3559U310
	433.42	433.31 ~ 433.53	3.3	495-2332-1-ND	2.97	2.68	2.24	495-2332-2-ND	3,000	1487.00/M	B39431B3567U310
	433.92	433.76 ~ 434.08	2.0	495-2335-1-ND	2.84	2.56	2.14	495-2335-2-ND	3,000	1420.00/M	B39431B3750U310
	433.92	433.83 ~ 434.01	3.4	495-2289-1-ND	2.34	2.11	1.76	—	—	—	B39431B3575U310
	433.96	433.8 ~ 434.12	2.2	495-2359-1-ND	2.97	2.68	2.24	495-2359-2-ND	3,000	1487.00/M	B39431B3555U310
	434.42	434.26 ~ 434.58	2.0	495-2336-1-ND	2.84	2.56	2.14	495-2336-2-ND	3,000	1420.00/M	B39431B3757U310
	868.3	868.2 ~ 868.4	4.2	495-2337-1-ND	2.34	2.11	1.76	495-2337-2-ND	3,000	1622.00/M	B39871B3574U310
	868.39	868 ~ 868.78	2.7	495-1961-1-ND	2.34	2.11	1.76	495-1961-2-ND	3,000	1622.00/M	B39871B3570U310
	868.69	868 ~ 869.38	3.1	495-2338-1-ND	3.87	3.49	2.91	495-2338-2-ND	3,000	1622.00/M	B39871B3571U310
	869.69	869.2 ~ 870.18	2.8	495-2339-1-ND	3.24	2.92	2.44	495-2339-2-ND	3,000	1622.00/M	B39871B3573U310
4	313.85	313.7 ~ 314	1.9	495-2356-1-ND	2.61	2.36	1.97	495-2356-2-ND	3,000	1307.00/M	B39311B3768Z810
	315	314.85 ~ 315.15	1.9	495-1668-1-ND	2.61	2.36	1.97	495-1668-2-ND	3,000	1307.00/M	B39321B3761Z810
	315.15	315 ~ 315.3	1.9	495-2357-1-ND	3.10	2.79	2.33	—	—	—	B39321B3763Z810
	345	344.6 ~ 345.4	2.5	495-2352-1-ND	2.61	2.36	1.97	495-2352-2-ND	3,000	1307.00/M	B39351B3583Z810
	433.92	433 ~ 434.71	2.8	495-2334-1-ND	2.61	2.36	1.97	495-2334-2-ND	3,000	1307.00/M	B39431B3580Z810
	433.92	433.76 ~ 434.08	1.9	495-1672-1-ND	2.61	2.36	1.97	495-1672-2-ND	3,000	1307.00/M	B39431B3760Z810
	433.92	433.645 ~ 434.195	2.0	495-3694-1-ND	2.84	2.56	2.14	—	—	—	B39431B3780Z810
	433.92	433.86 ~ 433.98	3.6	495-3695-1-ND	2.84	2.56	2.14	—	—	—	B39431B3790Z810
	460	450 ~ 470	2.0	495-3924-1-ND	2.61	2.36	1.97	495-3924-2-ND	3,000	1307.00/M	B39461B3590Z810
	868.3	868 ~ 868.6	3.1	495-1673-1-ND	2.84	2.56	2.14	495-1673-2-ND	3,000	1420.00/M	B39871B3762Z810
	914.7	913.9 ~ 915.5	4.0	495-2340-1-ND	2.61	2.36	1.97	495-2340-2-ND	3,000	1307.00/M	B39921B3705Z810
5	1575.42	1574.42 ~ 1576.42	0.75	495-3913-1-ND	1.04	.94	.78	495-3913-2-ND	9,000	483.00/M	B39162B7839K410
	2140	2110 ~ 2170	2.6	495-1873-1-ND	1.83	1.65	1.38	—	—	—	B39212B7835C710
	2441.75	2400 ~ 2483.5	2.2	495-3918-1-ND	1.04	.94	.78	—	—	—	B39242B7841C710
6	2140	2110 ~ 2170	2.4	495-2629-1-ND	2.59	2.33	1.95	495-2629-2-ND	9,000	1208.00/M	B39212B7750C810
7	1575.42	1574.42 ~ 1576.42	1.2	495-3909-1-ND	1.38	1.25	1.04	495-3909-2-ND	9,000	644.00/M	B39162B9080L310
8	1575.42	1574.42 ~ 1576.42	0.6	495-3910-1-ND	1.04	.94	.78	495-3910-2-ND	15,000	483.00/M	B39162B9415K610
	1575.42	1574.42 ~ 1576.42	0.9	495-3911-1-ND	1.04	.94	.78	495-3911-2-ND	15,000	483.00/M	B39162B9416K610
	1575.42	1574.42 ~ 1576.42	1.1	495-3912-1-ND	1.04	.94	.78	495-3912-2-ND	15,000	483.00/M	B39162B9417K610
	2450	2400 ~ 2500	2.2	495-3915-1-ND	1.04	.94	.78	495-3915-2-ND	6,000	483.00/M	B39252B9430M410
	2441.75	2400 ~ 2483.5	2.0	495-3919-1-ND	1.04	.94	.78	495-3919-2-ND	5,000	483.00/M	B39242B9413K610

Fig. 1

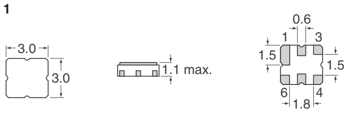

Fig. 2

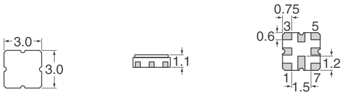

Fig. 3

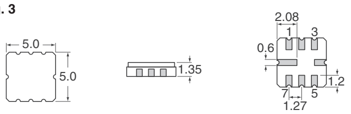

Fig. 4

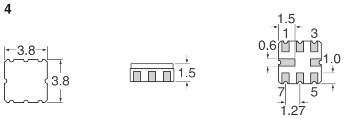

Fig. 5

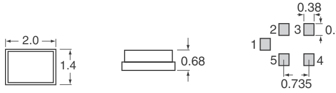

Fig. 6

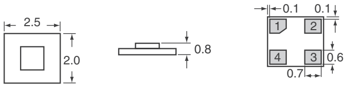

Fig. 7

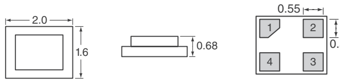

Fig. 8

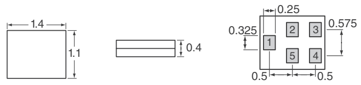

sumida Surface Mount Power Inductors

Series CR43

Features: • Standard SMD small size power inductors • Non-shielded

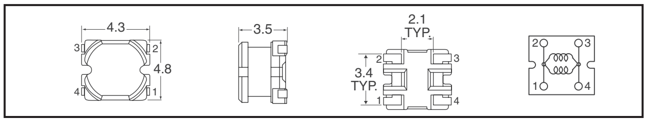

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,500	Sumida Part No.
1.8µH	0.0637	1.95	308-1118-1-ND	1.24	1.13	.84	—	CR43-1R8MC
6.8µH	0.1312	0.95	308-1125-1-ND	1.24	1.13	.84	455.00/M	CR43-6R8MC
8.2µH	0.1462	0.84	308-1126-1-ND	1.24	1.13	.84	455.00/M	CR43-8R2MC
RoHS Compliant								
1.0µH	0.0487	2.56	308-1521-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R0MC
1.4µH	0.0562	2.52	308-1522-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R4MC
1.8µH	0.0637	1.95	308-1523-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R8MC
2.2µH	0.0712	1.75	308-1524-1-ND	1.10	1.00	.75	403.00/M	CR43NP-2R2MC
3.3µH	0.0862	1.44	308-1525-1-ND	1.10	1.00	.75	403.00/M	CR43NP-3R3MC
3.9µH	0.0937	1.33	308-1526-1-ND	1.10	1.00	.75	403.00/M	CR43NP-3R9MC
4.7µH	0.1087	1.15	308-1527-1-ND	1.10	1.00	.75	403.00/M	CR43NP-4R7MC
6.8µH	0.1312	0.95	308-1528-1-ND	1.10	1.00	.75	403.00/M	CR43NP-6R8MC
8.2µH	0.1462	0.84	308-1529-1-ND	1.10	1.00	.75	403.00/M	CR43NP-8R2MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CR54

Features: • Standard SMD small size power inductors • Non-shielded

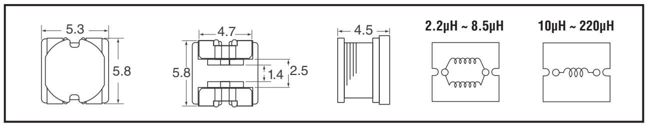

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R† Pricing 1,500	Sumida Part No.
7.6µH	0.0624	2.08	308-1308-1-ND	1.17	1.07	.96	—	CR54-7R6MC
12µH	0.12	1.40	308-1286-1-ND	1.17	1.07	.96	—	CR54-120MC
39µH	0.32	0.80	308-1298-1-ND	1.17	1.07	.96	—	CR54-390LC
56µH	0.42	0.68	308-1303-1-ND	1.17	1.07	.96	—	CR54-560KC
180µH	1.38	0.38	308-1291-1-ND	1.17	1.07	.96	—	CR54-181KC
RoHS Compliant								
10µH	0.10	1.44	308-1530-1-ND	1.17	1.07	.96	594.00/M	CR54NP-100MC
15µH	0.14	1.30	308-1531-1-ND	1.17	1.07	.96	594.00/M	CR54NP-150MC
18µH	0.15	1.23	308-1532-1-ND	1.17	1.07	.96	594.00/M	CR54NP-180MC
22µH	0.18	1.11	308-1533-1-ND	1.17	1.07	.96	594.00/M	CR54NP-220MC
33µH	0.23	0.88	308-1535-1-ND	1.17	1.07	.96	594.00/M	CR54NP-330LC
68µH	0.46	0.61	308-1536-1-ND	1.17	1.07	.96	594.00/M	CR54NP-680KC
220µH	1.57	0.35	308-1534-1-ND	1.17	1.07	.96	594.00/M	CR54NP-221KC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CR75

Features: • Standard SMD small size power inductors • Non-shielded

RoHS COMPLIANT

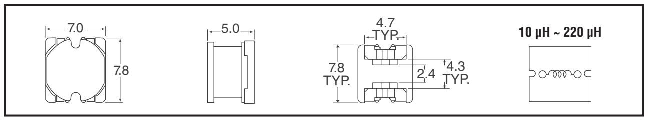

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	Sumida Part No.
10µH	0.07	2.3	308-1537-1-ND	1.28	1.17	.87	648.00	CR75NP-100KC
33µH	0.13	1.2	308-1539-1-ND	1.28	1.17	.87	648.00	CR75NP-330KC
47µH	0.18	1.1	308-1540-1-ND	1.28	1.17	.87	648.00	CR75NP-470KC
220µH	0.96	0.49	308-1538-1-ND	1.28	1.17	.87	648.00	CR75NP-221KC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDH53

Features: • SMD power inductors with electrodes directly attached to ferrite core • Unshielded

RoHS COMPLIANT

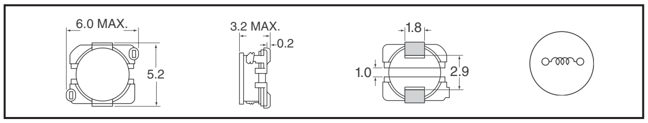

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,500	Sumida Part No.
10µH	0.16	1.23	308-1421-1-ND	.99	.91	.68	504.00/M	CDH53NP-100LC
100µH	1.57	0.37	308-1422-1-ND	.99	.91	.68	504.00/M	CDH53NP-101JC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR105

Features: • Standard SMD power inductor • EMI shielding to minimize crosstalk interference

RoHS COMPLIANT

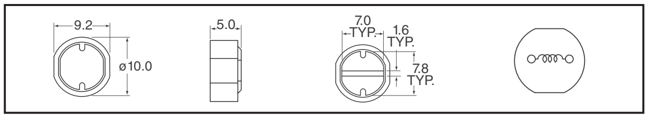

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	Sumida Part No.
CDR105 Series								
10µH	0.06	2.53	308-1423-1-ND	1.49	1.36	1.01	378.00	CDR105NP-100MC
22µH	0.09	1.71	308-1425-1-ND	1.49	1.36	1.01	378.00	CDR105NP-220MC
100µH	0.35	0.80	308-1424-1-ND	1.49	1.36	1.01	378.00	CDR105NP-101MC
CD105 Series								
100µH	0.35	0.97	308-1415-1-ND	2.17	1.97	1.47	549.00	CD105NP-101KC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR125

Features: • Standard SMD power inductor • EMI shielding to minimize crosstalk interference

RoHS COMPLIANT

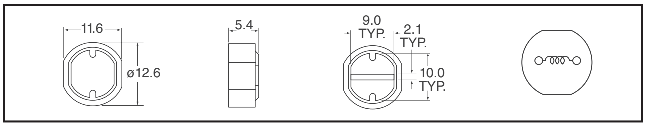

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	Sumida Part No.
10µH	0.05	2.65	308-1426-1-ND	2.45	2.23	1.66	621.00	CDR125NP-100MC
22µH	0.07	2.20	308-1428-1-ND	2.45	2.23	1.66	621.00	CDR125NP-220MC
100µH	0.25	1.05	308-1427-1-ND	2.45	2.23	1.66	621.00	CDR125NP-101MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH5D18

Features: • Low Profile SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

RoHS COMPLIANT

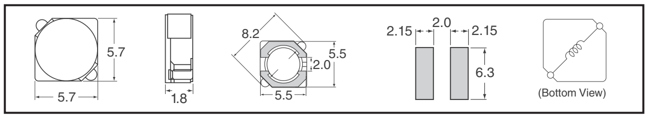

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 2,000	Sumida Part No.
4.1µH	0.057	1.95	308-1481-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-4R1NC
5.4µH	0.076	1.60	308-1482-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-5R4NC
10µH	0.124	1.20	308-1479-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-100NC
22µH	0.290	0.80	308-1480-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-220NC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH6D28

Features: • Low profile SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

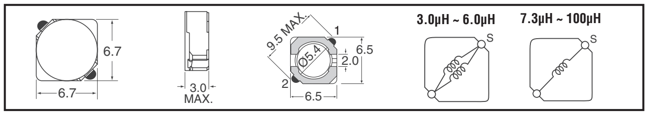

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,500	Sumida Part No.
7.3µH	0.054	2.10	308-1222-1-ND	1.10	1.00	.75	—	CDRH6D28-7R3NC
12µH	0.070	1.55	308-1225-1-ND	1.10	1.00	.75	—	CDRH6D28-120NC
82µH	0.390	0.60	308-1235-1-ND	1.10	1.00	.75	—	CDRH6D28-820NC
RoHS Compliant								
3.0µH	0.024	3.00	308-1495-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-3R0NC
3.9µH	0.027	2.60	308-1496-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-3R9NC
5.0µH	0.031	2.40	308-1498-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-5R0NC
6.0µH	0.035	2.25	308-1499-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-6R0NC
7.3µH	0.054	2.10	308-1500-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-7R3NC
10µH	0.065	1.70	308-1487-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-100NC
12µH	0.070	1.55	308-1489-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-120NC
15µH	0.084	1.40	308-1490-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-150NC
18µH	0.095	1.32	308-1491-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-180NC
22µH	0.128	1.20	308-1492-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-220NC
27µH	0.142	1.05	308-1493-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-270NC
33µH	0.165	0.97	308-1494-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-330NC
47µH	0.238	0.80	308-1497-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-470NC
82µH	0.390	0.60	308-1501-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-820NC
100µH	0.535	0.54	308-1488-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-101NC

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH62B

Features: • SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

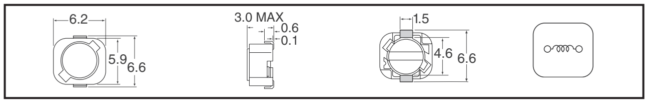

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 2,000	Sumida Part No.
				1	10	100		
2.9µH	0.068	1.94	308-1148-1-ND	.96	.88	.65	—	CDRH62B-2R9NC
27µH	0.38	0.66	308-1159-1-ND	.96	.88	.65	486.00/M	CDRH62B-270MC
RoHS Compliant								
2.9µH	0.068	1.94	308-1485-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-2R9NC
10µH	0.15	1.10	308-1483-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-100MC
22µH	0.34	0.74	308-1484-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-220MC
47µH	0.69	0.50	308-1486-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-470MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDPH4D19F

Features: • Double-stacked flatwire windings allow for supercompact size and current handling efficiency • EMI shielding to minimize crosstalk interference

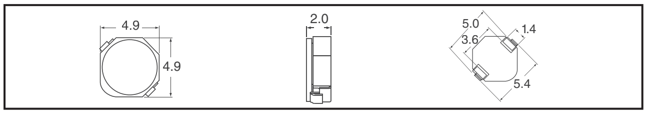

Inductance	D.C.R. (Ω) (Maximum @20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 1,000	Sumida Part No.
				1	10	100		
3.3µH	0.033	1.50	308-1315-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-3R3MC
4.7µH	0.038	1.15	308-1317-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-4R7MC
6.8µH	0.050	1.00	308-1318-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-6R8MC
8.0µH	0.056	0.90	308-1319-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-8R0MC
10µH	0.065	0.80	308-1311-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-100MC
15µH	0.095	0.66	308-1312-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-150MC
22µH	0.135	0.54	308-1313-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-220MC
33µH	0.200	0.43	308-1314-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-330MC
47µH	0.293	0.36	308-1316-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-470MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR7D28MN

Features: • DC supercomposition characteristic is extended by using a hybrid Ni-Zn/Mn-Zi core • EMI shielding to minimize crosstalk interference

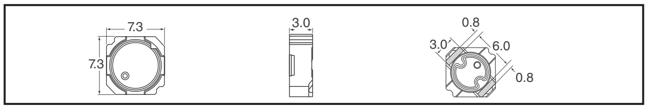

Inductance	D.C.R. (Ω) (Maximum @20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 1,000	Sumida Part No.
				1	10	100		
1.2µH	.0205	5.90	308-1322-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-1R2NC
2.0µH	.0238	4.55	308-1324-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-2R0NC
3.6µH	.0325	3.55	308-1326-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-3R6NC
4.6µH	.0375	3.30	308-1327-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-4R6NC
6.8µH	.0463	2.90	308-1328-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-6R8NC
8.0µH	.050	2.60	308-1329-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-8R0NC
10µH	.0538	2.40	308-1320-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-100NC
15µH	.0813	2.10	308-1321-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-150NC
22µH	.120	1.65	308-1323-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-220NC
33µH	.1963	1.35	308-1325-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-330NC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH104R

Features: • R-series SMD power inductors with low AC and DC resistance characteristics • EMI shielding to minimize crosstalk interference

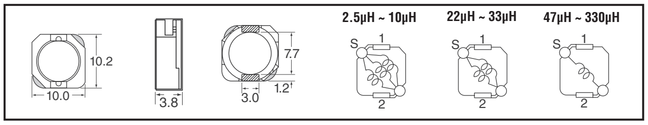

Inductance @100kHz 1V	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 1,000	Sumida Part No.
				1	10	50		
47µH	128m	2.10	308-1280-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-470NC
RoHS Compliant								
2.5µH	10.5m	7.50	308-1432-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-2R5NC
3.8µH	13.0m	6.00	308-1434-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-3R8NC
10µH	35m	4.40	308-1429-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-100NC
22µH	73m	2.90	308-1431-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-220NC
33µH	93m	2.30	308-1433-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-330NC
47µH	128m	2.10	308-1435-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-470NC
100µH	304m	1.35	308-1430-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-101NC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH74

Features: • SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

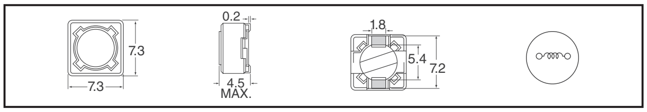

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 1,000	Sumida Part No.
				1	10	100		
10µH	0.049	1.84	308-1502-1-ND	1.42	1.29	.96	720.00	CDRH74NP-100MC
15µH	0.081	1.47	308-1505-1-ND	1.42	1.29	.96	720.00	CDRH74NP-150MC
18µH	0.091	1.31	308-1507-1-ND	1.42	1.29	.96	720.00	CDRH74NP-180MC
22µH	0.11	1.23	308-1509-1-ND	1.42	1.29	.96	720.00	CDRH74NP-220MC
47µH	0.26	0.88	308-1512-1-ND	1.42	1.29	.96	720.00	CDRH74NP-470MC
56µH	0.35	0.75	308-1514-1-ND	1.42	1.29	.96	720.00	CDRH74NP-560MC
68µH	0.38	0.69	308-1516-1-ND	1.42	1.29	.96	720.00	CDRH74NP-680MC
100µH	0.61	0.60	308-1503-1-ND	1.42	1.29	.96	720.00	CDRH74NP-101MC
150µH	0.88	0.46	308-1506-1-ND	1.42	1.29	.96	720.00	CDRH74NP-151MC
180µH	0.98	0.42	308-1508-1-ND	1.42	1.29	.96	720.00	CDRH74NP-181MC
220µH	1.17	0.36	308-1510-1-ND	1.42	1.29	.96	720.00	CDRH74NP-221MC
330µH	1.86	0.32	308-1511-1-ND	1.42	1.29	.96	720.00	CDRH74NP-331MC
470µH	3.01	0.26	308-1513-1-ND	1.42	1.29	.96	720.00	CDRH74NP-471MC
560µH	3.62	0.23	308-1515-1-ND	1.42	1.29	.96	720.00	CDRH74NP-561MC
1.0mH	6.00	0.18	308-1504-1-ND	1.42	1.29	.96	720.00	CDRH74NP-102MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH127/LD

Features: • Low DCR direct drop-in version of Sumida's most popular series, CDRH127 • Shielded

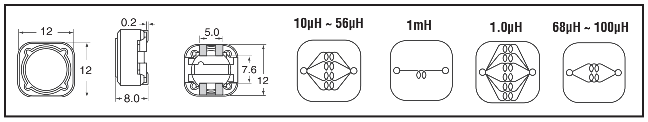

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 500	Sumida Part No.
				1	10	100		
1.0µH	0.0065	14.0	308-1334-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-1R0NC
10µH	0.0195	6.70	308-1330-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-100MC
15µH	0.0264	5.65	308-1333-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-150MC
22µH	0.0364	4.70	308-1335-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-220MC
27µH	0.0416	4.20	308-1336-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-270MC
33µH	0.0533	3.90	308-1337-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-330MC
39µH	0.0605	3.50	308-1338-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-390MC
47µH	0.078	3.25	308-1339-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-470MC
56µH	0.090	2.90	308-1340-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-560MC
68µH	0.120	2.60	308-1341-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-680MC
100µH	0.151	2.10	308-1331-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-101MC
1.0mH	1.50	0.70	308-1332-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-102MC

† For Tape and Reel part number, change 1-ND to 2-ND.2-ND.

Series CDRH127

Features: • SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

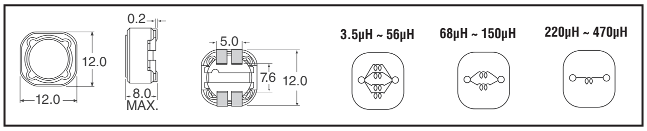

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R† Pricing 500	Sumida Part No.
				1	10	100		
3.5µH	0.0135	7.50	308-1073-1-ND	3.05	2.78	2.07	774.00	CDRH127-3R5NC
7.6µH	0.0200	5.90	308-1076-1-ND	3.05	2.78	2.07	774.00	CDRH127-7R6NC
RoHS Compliant								
3.5µH	0.0135	7.50	308-1470-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-3R5NC
4.7µH	0.0158	6.80	308-1473-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-4R7NC
6.1µH	0.0176	6.60	308-1476-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-6R1NC
7.6µH	0.0200	5.90	308-1477-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-7R6NC
10µH	0.0216	5.40	308-1457-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-100MC
12µH	0.0243	4.90	308-1459-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-120MC
15µH	0.0270	4.50	308-1461-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-150MC
18µH	0.0392	3.90	308-1463-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-180MC
22µH	0.0432	3.60	308-1464-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-220MC
27µH	0.0459	3.40	308-1466-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-270MC
33µH	0.0648	3.00	308-1467-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-330MC
39µH	0.0729	2.75	308-1469-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-390MC
47µH	0.10	2.50	308-1471-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-470MC
56µH	0.11	2.35	308-1474-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-560MC
68µH	0.14	2.10	308-1475-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-680MC
82µH	0.16	1.95	308-1478-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-820MC
100µH	0.22	1.70	308-1458-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-101MC
120µH	0.25	1.60	308-1460-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-121MC
150µH	0.28	1.42	308-1462-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-151MC
220µH	0.39	1.16	308-1465-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-221MC
330µH	0.64	0.95	308-1468-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-331MC
470µH	0.98	0.79	308-1472-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-471MC

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH125

Features: • SMD power inductors with electrodes directly attached to ferrite core • EMI shielding to minimize crosstalk interference

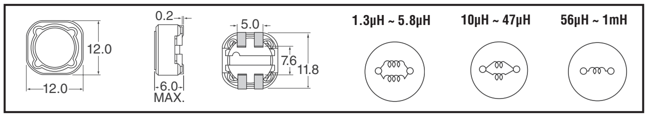

Inductance	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	Sumida Part No.
39µH	0.068	2.00	308-1053-1-ND	2.13	1.94	1.44	—	CDRH125-390MC
56µH	0.11	1.70	308-1055-1-ND	2.13	1.94	1.44	—	CDRH125-560MC
82µH	0.14	1.40	308-1057-1-ND	2.13	1.94	1.44	—	CDRH125-820MC
820µH	1.34	0.43	308-1069-1-ND	2.13	1.94	1.44	—	CDRH125-821MC
RoHS Compliant								
1.3µH	0.012	8.00	308-1444-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-1R3NC
2.1µH	0.014	7.00	308-1447-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-2R1NC
5.8µH	0.021	4.40	308-1453-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-5R8NC
10µH	0.029	4.60	308-1543-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-100NC
10µH	0.025	4.00	308-1436-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-100MC
15µH	0.035	4.00	308-1546-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-150MC
15µH	0.030	3.30	308-1440-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-150MC
18µH	0.034	3.00	308-1442-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-180MC
22µH	0.044	3.28	308-1547-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-220MC
22µH	0.036	2.80	308-1445-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-220MC
33µH	0.065	2.60	308-1548-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-330MC
33µH	0.057	2.10	308-1448-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-330MC
39µH	0.068	2.00	308-1450-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-390MC
47µH	0.095	2.30	308-1549-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-470MC
47µH	0.075	1.80	308-1451-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-470MC
56µH	0.11	1.70	308-1452-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-560MC
68µH	0.12	1.50	308-1454-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-680MC
82µH	0.14	1.40	308-1455-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-820MC
100µH	0.187	1.60	308-1544-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-101MC
100µH	0.16	1.30	308-1437-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-101MC
120µH	0.17	1.10	308-1439-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-121MC
150µH	0.23	1.00	308-1441-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-151MC
180µH	0.29	0.90	308-1443-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-181MC
220µH	0.40	0.80	308-1446-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-221MC
330µH	0.51	0.68	308-1449-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-331MC
1.0mH	1.95	0.46	308-1545-1-ND	1.42	1.29	.96	360.00	CDRH125/LDNP-102MC
1.0mH	1.53	0.40	308-1438-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-102MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CEP125

Features: • High current handling and low DCR achieved in a small package with flat wire technology • Non-shielded

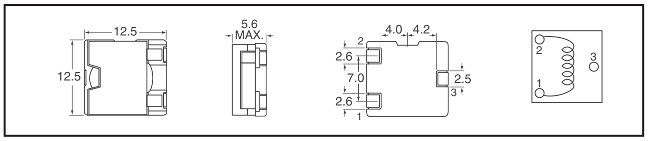

Inductance	D.C.R. (Ω) (Maximum @ 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	Sumida Part No.
0.8µH	0.0022	25.7	308-1517-1-ND	3.87	3.52	2.62	981.00	CEP125NP-0R8NC-UD
1.0µH	0.0022	20.0	308-1519-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R0MC-HD
1.0µH	0.0025	20.0	308-1518-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R0MC-H
1.5µH	0.0022	14.0	308-1520-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R5MC-D

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CDEP134

Features: • High current handling and low DCR achieved in a small package with flat wire technology • EMI shielding to minimize crosstalk interference

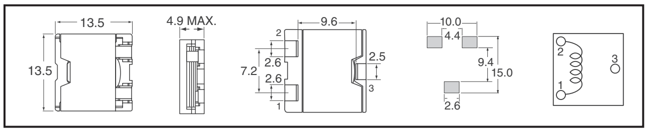

Inductance	D.C.R. (Ω) (Maximum @ 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	Sumida Part No.
0.66µH	0.0025	29.0	308-1416-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-0R6NC-H
1.2µH	0.0037	21.0	308-1417-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R2MC-H
1.6µH	0.0037	16.0	308-1418-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R6MC
3.6µH	0.0120	12.5	308-1419-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-3R6MC-H
4.8µH	0.0120	9.3	308-1420-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-4R8MC

† For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Chokes

Series CPFC6D36

Features: • High impedance in wide range of frequency • Ideally used in DC line noise for LCD TV and PC

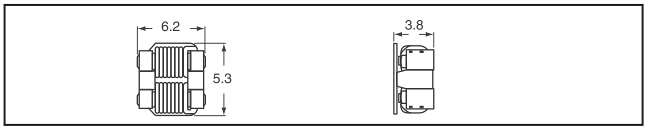

D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	T & R† Pricing 1,000	Sumida Part No.
0.02	2.5	308-1557-1-ND	2.41	2.20	1.64	1224.00	CPFC6D36NP-100MO6

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CPFC74

Features: • Ideally used in CAN BUS, AV and OA equipment

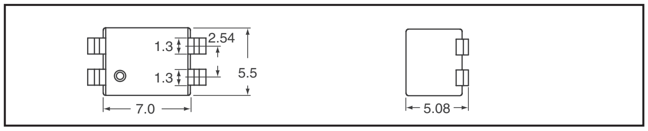

D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	T & R† Pricing 1,000	Sumida Part No.
0.12	1.5	308-1558-1-ND	1.78	1.62	1.20	900.00	CPFC74NP-PS10H2A15
0.12	2.0	308-1559-1-ND	1.78	1.62	1.20	900.00	CPFC74NP-PS02H2A20
0.12	2.5	308-1560-1-ND	1.78	1.62	1.20	900.00	CPFC74NP-PS03H2A25
0.06	3.0	308-1561-1-ND	1.78	1.62	1.20	900.00	CPFC74NP-PS01H2A30

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CPFC805

Features: • High impedance in wide range of frequency • Ideally used in DC line noise reduction for LCD TV and PC

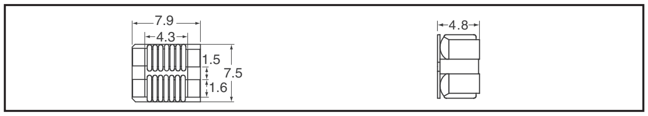

D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	T & R† Pricing 1,000	Sumida Part No.
0.015	4.5	308-1562-1-ND	2.34	2.13	1.59	1188.00	CPFC805NP-100M05

† For Tape and Reel part number, change 1-ND to 2-ND.

Series CPFC85

Features: • Ideally used as EMC common mode choke and xDSL CO transformer

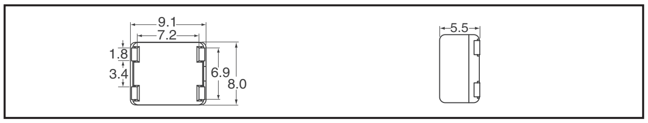

Inductance (Min.)	D.C.R. (Ω) (Maximum @20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	T & R† Pricing 1,000	Sumida Part No.
—	0.02	5.65	308-1563-1-ND	3.12	2.84	2.12	1044.00	CPFC85NP-WH04
—	0.02	4.00	308-1564-1-ND	3.12	2.84	2.12	1584.00	CPFC85NP-WH07
4.7mH	2.0	—	308-1565-1-ND	3.12	2.84	2.12	1584.00	CPFC85NP-1M15

† For Tape and Reel part number, change 1-ND to 2-ND.

Series UU9LF

Features: • Small size common mode choke **Applications:** • Multi-function telephone • AC adapter • FAX • Small size fluorescent light • VCR • TV

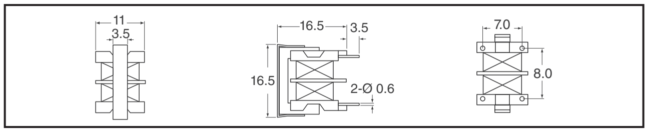

Inductance (Min.)	D.C.R. (Ω) (Max.@20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
4.7mH	1.6	340	308-1377-ND	1.23	1.02	.79	UU9LFNP-B472

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

OCTA-PAC®/ECONO-PAC™ Power Inductors and Transformers

These parts are commonly used in reference designs for manufacturers like Linear Technology, Texas Instruments, On-Semiconductor™, Maxim, National Semiconductor™, Fairchild Semiconductor®, Analog Devices and many more.
Features: • Surface mount magnetics that can be used as single or coupled inductors or 1:1 transformers that provide isolation between two windings • OCTA-PACs are designed around high frequency, low loss MPP core material • ECONO-PACs are a lower cost version of OCTA-PACs offering high saturation flux density **Applications:** • Computer and portable power devices • LCD panels, DVD players • Inductor: DC-DC converters • Buck, boost, forward and resonant converters • Noise filtering and filter chokes • Transformers: 1:1 300Vdc isolation, flyback, sepic **Specifications:** • **Operating Temperature Range:** -40°C ~ 85°C (Range is application specific) **Solder Reflow Temperature:** 260°C for 10 seconds maximum

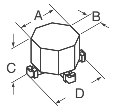

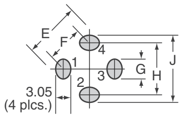

Series	Dimensions (mm) A (sq.)	B (ref.)	C (max.)	D	E	F	G	H	J
CTX-1,-1P	8.89	3.68	4.19	11.43	10.72	7.04	3.68	9.96	13.00
CTX-2,-2P	8.89	3.68	5.97	11.43	10.72	7.04	3.68	9.96	13.00
CTX-3,-3P	11.43	4.72	4.83	13.97	12.50	8.84	4.06	12.50	15.54
CTX-4,-4P	11.43	4.72	6.35	13.97	12.50	8.84	4.06	12.50	15.54

Connection Options:

Parallel Connection: Doubles the current capacity

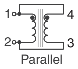

Series Connection: Four times the parallel inductance

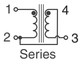

1:1 Ratio Transformer: For isolation and some flyback applications

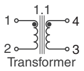

Parallel Connection Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Maximum (Ω)	Series Connection Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Maximum (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
OCTA-PAC Series															
4.70	3.00	2.66	.021	18.80	1.50	10.65	.084	513-1214-1-ND	5.15	4.68	3.48	513-1214-2-ND	800	1740.00	CTX5-2-R
4.90	4.40	2.59	.014	19.60	2.20	10.37	.056	513-1215-1-ND	5.29	4.81	3.58	513-1215-2-ND	600	1341.00	CTX5-4-R
9.60	3.40	4.82	.019	38.42	1.70	19.28	.078	513-1002-1-ND	5.68	5.16	3.84	513-1002-2-ND	600	1440.00	CTX10-4-R
10.00	1.90	4.85	.044	40.00	.95	19.40	.176	513-1003-1-ND	5.25	4.78	3.56	513-1003-2-ND	1,100	2220.00/M	CTX10-1-R
10.58	2.50	5.18	.031	42.30	1.25	20.72	.125	513-1004-1-ND	5.50	5.00	3.72	513-1004-2-ND	800	1860.00	CTX10-2-R
14.16	3.00	6.76	.024	56.64	1.50	27.03	.096	513-1202-1-ND	5.68	5.16	3.84	513-1202-2-ND	600	1440.00	CTX15-4-R
19.60	1.00	11.54	.146	78.40	.50	46.15	.583	513-1203-1-ND	5.25	4.78	3.56	513-1203-2-ND	1,100	2220.00/M	CTX20-1-R
19.60	2.10	10.68	.055	78.40	1.05	42.73	.220	513-1007-1-ND	5.68	5.16	3.84	513-1007-2-ND	600	1440.00	CTX20-4-R
20.18	1.50	10.76	.078	80.74	.75	43.04	.312	513-1008-1-ND	5.61	5.10	3.80	513-1008-2-ND	800	1896.00	CTX20-3-R
20.73	1.30	12.36	.107	82.91	.65	49.46	.426	513-1204-1-ND	5.50	5.00	3.72	513-1204-2-ND	800	1860.00	CTX20-2-R
25.92	2.00	13.32	.063	103.68	1.00	53.27	.253	513-1207-1-ND	5.68	5.16	3.84	513-1207-2-ND	600	1440.00	CTX25-4-R
31.77	1.40	15.90	.105	127.09	.70	63.59	.420	513-1210-1-ND	6.39	5.81	4.32	513-1210-2-ND	800	2160.00	CTX33-2-R
32.86	.96	19.69	.083	131.42	.48	78.77	.331	513-1012-1-ND	5.61	5.10	3.80	513-1012-2-ND	800	1896.00	CTX33-3-R
33.12	1.80	16.82	.072	132.50	.90	67.27	.287	513-1211-1-ND	5.68	5.16	3.84	513-1211-2-ND	600	1440.00	CTX33-4-R
50.18	1.50	25.03	.111	200.70	.75	100.11	.443	513-1014-1-ND	5.68	5.16	3.84	513-1014-2-ND	600	1440.00	CTX50-4-R
50.63	.64	29.34	.365	202.50	.32	117.38	1.461	513-1212-1-ND	5.25	4.78	3.56	513-1212-2-ND	1,100	2220.00/M	CTX50-1-R
51.18	.92	28.79	.210	204.73	.46	115.16	.839	513-1016-1-ND	6.39	5.81	4.32	513-1016-2-ND	800	2160.00	CTX50-2-R
67.08	1.20	35.29	.157	268.32	.60	141.15	.630	513-1216-1-ND	5.68	5.16	3.84	513-1216-2-ND	600	1440.00	CTX68-4-R
99.23	.44	58.72	.784	396.90	.22	234.88	3.137	513-1195-1-ND	5.25	4.78	3.56	513-1195-2-ND	1,100	2220.00/M	CTX100-1-R
99.23	.92	54.56	.302	396.90	.46	218.25	1.210	513-1198-1-ND	5.68	5.16	3.84	513-1198-2-ND	600	1440.00	CTX100-4-R
148.23	.82	77.17	.372	592.90	.41	308.69	1.488	513-1201-1-ND	5.68	5.16	3.84	513-1201-2-ND	600	1440.00	CTX150-4-R
200.70	.64	111.08	.545	802.82	.32	444.32	2.180	513-1023-1-ND	5.68	5.16	3.84	513-1023-2-ND	600	1440.00	CTX200-4-R
254.40	.60	122.30	.615	1017.60	.308	489.20	2.460	513-1206-1-ND	6.96	6.33	4.71	513-1206-2-ND	600	1764.00	CTX250-4-R
298.12	.62	147.92	.672	1192.46	.31	591.66	2.687	513-1208-1-ND	5.68	5.16	3.84	513-1208-2-ND	600	1440.00	CTX300-4-R
ECONO-PAC Series															
8.08	1.80	5.31	.052	32.33	.90	21.23	.207	513-1124-1-ND	3.09	2.81	2.09	513-1124-2-ND	1,100	1305.00/M	CTX8-1P-R
9.62	1.70	6.23	.057	38.48	.85	24.94	.227	513-1026-1-ND	3.09	2.81	2.09	513-1026-2-ND	1,100	1305.00/M	CTX10-1P-R
9.83	2.10	6.73	.045	39.30	1.05	26.92	.179	513-1199-1-ND	3.20	2.91	2.16	513-1199-2-ND	800	1080.00	CTX10-2P-R
9.79	2.70	5.71	.033	39.15	1.35	22.85	.131	513-1544-1-ND	3.20	2.91	2.16	513-1544-2-ND	800	1080.00	CTX10-3P-R
9.88	2.50	6.70	.047	39.53	1.25	26.79	.187	513-1200-1-ND	3.20	2.91	2.16	513-1200-2-ND	600	810.00	CTX10-4P-R
19.58	1.50	13.37	.097	78.34	.75	53.48	.387	513-1029-1-ND	3.20	2.91	2.16	513-1029-2-ND	800	1260.00	CTX20-2P-R
20.62	1.90	13.44	.084	82.47	.95	53.76	.337	513-1205-1-ND	3.20	2.91	2.16	513-1205-2-ND	600	810.00	CTX20-4P-R
24.79	1.40	16.60	.109	99.14	.70	66.38	.436	513-1235-1-ND	3.20	2.91	2.16	513-1235-2-ND	800	1080.00	CTX25-2P-R
32.33	.80	22.27	.250	129.32	.40	89.06	1.001	513-1209-1-ND	3.09	2.81	2.09	513-1209-2-ND	1,100	1305.00/M	CTX33-1P-R
32.67	1.30	21.29	.126	130.70	.65	85.17	.503	513-1033-1-ND	3.20	2.91	2.16	513-1033-2-ND	800	1080.00	CTX33-2P-R
48.80	1.20	32.21	.201	195.20	.60	128.83	.805	513-1213-1-ND	3.20	2.91	2.16	513-1213-2-ND	600	810.00	CTX50-4P-R
99.01	.54	63.64	.557	396.06	.27	254.55	2.227	513-1036-1-ND	3.09	2.81	2.09	513-1036-2-ND	1,100	1305.00/M	CTX100-1P-R
201.59	.46	138.49	.951	806.34	.23	553.97	3.804	513-1545-1-ND	3.20	2.91	2.16	513-1545-2-ND	800	1080.00	CTX200-2P-R
300.42	.42	197.52	1.176	1201.70	.21	790.08	4.703	513-1546-1-ND	3.20	2.91	2.16	513-1546-2-ND	800	1080.00	CTX300-2P-R

UNI-PAC™ and Amorphous Surface Mount Power Inductors

Features: These specified parts are designed for use in National Semiconductors Webench program, but are also used in many power applications like DC-DC converters and battery powered equipment. Miniature size with maximum power density and are rugged enough for design in high shock environments.
Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

Fig. 1

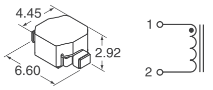

Fig. 2

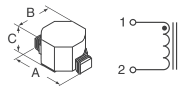

Series	Dimensions – Max. (mm) A	B	C
UP1B	8.89	6.10	5.0
UP2B	13.97	10.41	6.0
UP2C	12.90	9.40	5.2

Fig. 3

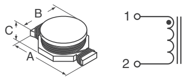

Series	Dimensions – Max. (mm) A	B	C
UP3B	19.30	13.21	6.8
CTX01	17.70	12.85	7.55
UP4B	22.10	15.00	7.87

Fig. 4

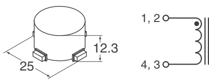

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
UP0.4C Series													
1	22	21.8	0.76	0.77	0.360	513-1061-1-ND	.99	.91	.68	513-1061-2-ND	2,500	420.00/M	UP0.4C-220-R
	33	32.2	0.64	0.63	0.560	513-1063-1-ND	.99	.91	.68	513-1063-2-ND	2,500	420.00/M	UP0.4C-330-R
	47	46.5	0.53	0.53	0.820	513-1064-1-ND	.99	.91	.68	513-1064-2-ND	2,500	420.00/M	UP0.4C-470-R
	68	68.2	0.45	0.43	1.10	513-1227-1-ND	.99	.91	.68	513-1227-2-ND	2,500	420.00/M	UP0.4C-680-R
	100	102.5	0.37	0.35	1.58	513-1060-1-ND	.99	.91	.68	513-1060-2-ND	2,500	420.00/M	UP0.4C-101-R
UP1B Series													
2	0.47	0.569	6.0	7.7	0.0097	513-1183-1-ND	1.10	1.00	.75	513-1183-2-ND	900	418.50	UP1B-R47-R
	1.0	1.20	4.4	5.3	0.0177	513-1181-1-ND	1.10	1.00	.75	513-1181-2-ND	900	418.50	UP1B-1R0-R
	2.2	2.62	3.1	3.5	0.0363	513-1668-1-ND ***NEW!***	1.10	1.00	.75	513-1668-2-ND ***NEW!***	900	418.50	UP1B-2R2-R

‡ Tolerance is ±25% **Note (1):** Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C **Note (3):** Peak current for approximately 30% roll-off UP0.4C, UP1B, 3B, 4B. 10% roll-off UP2B at 20°C **Note (4):** DCR limits 20°C
† CTX01 Series – Mechanical package is similar to the UP3B Series. See data sheet for more information.

(Continued)

UNI-PAC™ and Amorphous Surface Mount Power Inductors *(Cont.)*

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
2	4.7	5.15	2.2	2.6	0.0544	513-1182-1-ND	1.10	1.00	.75	513-1182-2-ND	900	418.50	UP1B-4R7-R
	10.0	11.00	1.5	1.9	0.1107	513-1180-1-ND	1.10	1.00	.75	513-1180-2-ND	900	418.50	UP1B-100-R
	15.0	16.00	1.2	1.5	0.1747	513-1228-1-ND	1.10	1.00	.75	513-1228-2-ND	900	418.50	UP1B-150-R
	22.0	23.50	1.0	1.2	0.2541	513-1069-1-ND	1.10	1.00	.75	513-1069-2-ND	900	418.50	UP1B-220-R
	33.0	36.00	0.82	0.99	0.3670	513-1071-1-ND	1.10	1.00	.75	513-1071-2-ND	900	418.50	UP1B-330-R
	47.0	48.50	0.72	0.87	0.4740	513-1073-1-ND	1.10	1.00	.75	513-1073-2-ND	900	418.50	UP1B-470-R
	68.0	73.52	0.58	0.67	0.7320	513-1074-1-ND	1.10	1.00	.75	513-1074-2-ND	900	418.50	UP1B-680-R
	100.0	112.67	0.47	0.53	1.11	513-1066-1-ND	1.10	1.00	.75	513-1066-2-ND	900	418.50	UP1B-101-R
	150.0	152.40	0.40	0.46	1.61	513-1229-1-ND	1.10	1.00	.75	513-1229-2-ND	900	418.50	UP1B-151-R
	220.0	223.10	0.36	0.38	1.96	513-1070-1-ND	1.10	1.00	.75	513-1070-2-ND	900	418.50	UP1B-221-R
	330.0	331.90	0.28	0.31	3.10	513-1072-1-ND	1.10	1.00	.75	513-1072-2-ND	900	418.50	UP1B-331-R
						UP2B Series							
2	1.0	1.00	9.3	9.9	0.0065	513-1186-1-ND	1.35	1.23	.92	513-1186-2-ND	550	313.50	UP2B-1R0-R
	2.2	2.56	7.2	6.1	0.0107	513-1556-1-ND	1.35	1.23	.92	513-1556-2-ND	550	313.50	UP2B-2R2-R
	4.7	4.77	5.5	4.2	0.0165	513-1187-1-ND	1.35	1.23	.92	513-1187-2-ND	550	313.50	UP2B-4R7-R
	10.0	9.73	4.3	3.3	0.0267	513-1185-1-ND	1.35	1.23	.92	513-1185-2-ND	550	313.50	UP2B-100-R
	15.0	15.43	3.5	2.4	0.0410	513-1076-1-ND	1.35	1.23	.92	513-1076-2-ND	550	313.50	UP2B-150-R
	22.0	22.50	2.8	2.0	0.0617	513-1230-1-ND	1.35	1.23	.92	513-1230-2-ND	550	313.50	UP2B-220-R
	33.0	33.13	2.1	1.7	0.0917	513-1080-1-ND	1.35	1.23	.92	513-1080-2-ND	550	313.50	UP2B-330-R
	47.0	48.65	1.7	1.4	0.1388	513-1082-1-ND	1.35	1.23	.92	513-1082-2-ND	550	313.50	UP2B-470-R
	68.0	68.17	1.5	1.2	0.1787	513-1083-1-ND	1.35	1.23	.92	513-1083-2-ND	550	313.50	UP2B-680-R
	100.0	102.60	1.2	0.95	0.2707	513-1075-1-ND	1.35	1.23	.92	513-1075-2-ND	550	313.50	UP2B-101-R
	150.0	150	1.0	0.77	0.4100	513-1077-1-ND	1.35	1.23	.92	513-1077-2-ND	550	313.50	UP2B-151-R
	220.0	223	0.773	0.637	0.6717	513-1079-1-ND	1.35	1.23	.92	513-1079-2-ND	550	313.50	UP2B-221-R
	330.0	338	0.676	0.510	0.8783	513-1081-1-ND	1.35	1.23	.92	513-1081-2-ND	550	313.50	UP2B-331-R
						UP2C Series							
2	33.0	32.11	2.16	2.20	.0797	513-1188-1-ND	1.46	1.33	.99	513-1188-2-ND	900	553.50	UP2C-330-R
						UP3B Series							
3	1.0	1.34	12.5	15.3	0.0034	513-1669-1-ND ***NEW!***	1.63	1.49	1.11	513-1669-2-ND ***NEW!***	450	310.50	UP3B-1R0-R
	4.7	5.00	6.5	7.7	0.0114	513-1557-1-ND	1.63	1.49	1.11	513-1557-2-ND	450	310.50	UP3B-4R7-R
	10.0	11.00	4.3	5.2	0.0260	513-1084-1-ND	1.63	1.49	1.11	513-1084-2-ND	450	310.50	UP3B-100-R
	15.0	16.38	3.9	4.3	0.0317	513-1231-1-ND	1.63	1.49	1.11	513-1231-2-ND	450	310.50	UP3B-150-R
	22.0	22.93	3.1	3.7	0.0490	513-1088-1-ND	1.63	1.49	1.11	513-1088-2-ND	450	310.50	UP3B-220-R
	33.0	33.85	2.4	3.0	0.0688	513-1089-1-ND	1.63	1.49	1.11	513-1089-2-ND	450	310.50	UP3B-330-R
	47.0	51.00	1.9	2.4	0.1082	513-1232-1-ND	1.63	1.49	1.11	513-1232-2-ND	450	310.50	UP3B-470-R
	68.0	69.50	1.6	2.0	0.1558	513-1092-1-ND	1.63	1.49	1.11	513-1092-2-ND	450	310.50	UP3B-680-R
	100.0	101.40	1.4	1.8	0.2053	513-1085-1-ND	1.63	1.49	1.11	513-1085-2-ND	450	310.50	UP3B-101-R
	120.0	120.0‡	2.0	1.7	0.0620	513-1539-1-ND†	1.42	1.29	.96	513-1539-2-ND†	400	240.00	CTX01-16025-R
	150.0	152.9	1.2	1.4	0.2960	513-1087-1-ND	1.63	1.49	1.11	513-1087-2-ND	450	310.50	UP3B-151-R
	330.0	332.80	0.75	0.98	0.7330	513-1090-1-ND	1.63	1.49	1.11	513-1090-2-ND	450	310.50	UP3B-331-R
						UP4B Series							
3	1.0	0.916	17.3	37.3	0.0023	513-1189-1-ND	1.88	1.71	1.28	513-1189-2-ND	275	218.63	UP4B-1R0-R
	10.0	9.77	6.8	11.5	0.0150	513-1694-1-ND ***NEW!***	1.88	1.71	1.28	513-1694-2-ND ***NEW!***	275	218.63	UP4B-100-R
	15.0	15.61	5.5	9.1	0.0230	513-1094-1-ND	1.88	1.71	1.28	513-1094-2-ND	275	218.63	UP4B-150-R
	22.0	22.61	4.5	7.6	0.0340	513-1096-1-ND	1.88	1.71	1.28	513-1096-2-ND	275	218.63	UP4B-220-R
	33.0	34.30	3.7	6.1	0.0520	513-1670-1-ND ***NEW!***	1.88	1.71	1.28	513-1670-2-ND ***NEW!***	275	218.63	UP4B-330-R
	47.0	48.10	3.1	5.2	0.0740	513-1098-1-ND	1.88	1.71	1.28	513-1098-2-ND	275	218.63	UP4B-470-R
	68.0	69.14	2.4	4.3	0.1200	513-1099-1-ND	1.88	1.71	1.28	513-1099-2-ND	275	218.63	UP4B-680-R
	100.0	99.42	2.0	3.6	0.1700	513-1093-1-ND	1.88	1.71	1.28	513-1093-2-ND	275	218.63	UP4B-101-R
	150.0	146.90	1.7	3.0	0.2392	513-1233-1-ND	1.88	1.71	1.28	513-1233-2-ND	275	218.63	UP4B-151-R
	220.0	221.40	1.4	2.4	0.3571	513-1234-1-ND	1.88	1.71	1.28	513-1234-2-ND	275	218.63	UP4B-221-R
						CTX06 Series							
4	22	23.1‡	8.5	6.8	0.0117	513-1102-ND	12.78	11.61	8.64	—	—	—	CTX06-14622
	33	34.1‡	7.7	7.7	0.0141	513-1101-ND	11.25	10.23	7.61	—	—	—	CTX06-14621
	47	47.2‡	7.1	8.5	0.0166	513-1100-ND	16.26	14.78	11.00	—	—	—	CTX06-14620

‡ Tolerance is ±25% **Note (1):** Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C **Note (3):** Peak current for approximately 30% roll-off UP0.4C, UP1B, 3B, 4B. 10% roll-off UP2B at 20°C **Note (4):** DCR limits 20°C † CTX01 Series – Mechanical package is similar to the UP3B Series. See data sheet for more information.

Shielded High Power Inductors — DR Series (SMD)

Digi-Reel® RoHS COMPLIANT

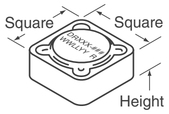

Series	Dimensions – Maximum (mm) Square	Height
DR73	7.6	3.55
DR74	7.6	4.35
DR124	12.3	4.50
DR125	12.5	6.00
DR127	12.5	8.00

Features: Designed for use in many power applications, DC-DC converters, LCD panels, Computer, DVD players and portable power devices.
Specifications: • Operating Temperature Range: -40°C ~ 125°C **• Solder Reflow Temperature:** 260°C maximum for 10 seconds maximum

Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes Peak	DCR(4) (Ω) (Typ.)	Volt-µSec(5) (Typ.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
						DR73 Series							
0.33	0.306	6.21	14.4	0.0073	1.98	513-1664-1-ND ***NEW!***	1.67	1.52	1.13	513-1664-2-ND ***NEW!***	1,350	705.00/M	DR73-R33-R
1.00	0.992	5.28	7.97	0.0102	3.56	513-1130-1-ND	1.67	1.52	1.13	513-1130-2-ND	1,350	705.00/M	DR73-1R0-R
1.50	1.482	4.67	6.52	0.0130	4.36	513-1132-1-ND	1.67	1.52	1.13	513-1132-2-ND	1,350	705.00/M	DR73-1R5-R
2.20	2.070	4.15	5.52	0.0165	5.15	513-1533-1-ND	1.67	1.52	1.13	513-1533-2-ND	1,350	705.00/M	DR73-2R2-R
3.30	3.540	3.31	4.22	0.0259	6.73	513-1534-1-ND	1.67	1.52	1.13	513-1534-2-ND	1,350	705.00/M	DR73-3R3-R
4.70	4.422	3.09	3.78	0.0297	7.52	513-1133-1-ND	1.67	1.52	1.13	513-1133-2-ND	1,350	705.00/M	DR73-4R7-R
6.80	6.480	2.55	3.12	0.0435	9.11	513-1134-1-ND	1.67	1.52	1.13	513-1134-2-ND	1,350	705.00/M	DR73-6R8-R
10.0	10.30	2.08	2.47	0.0656	11.5	513-1129-1-ND	1.67	1.52	1.13	513-1129-2-ND	1,350	705.00/M	DR73-100-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll-off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

(Continued)

Shielded High Power Inductors — DR Series (SMD) *(Cont.)*

Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes Peak	DCR(4) (Ω) (Typ.)	Volt-µSec(5) (Typ.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
15.0	15.01	1.83	2.05	0.0844	13.9	513-1135-1-ND	1.67	1.52	1.13	513-1135-2-ND	1,350	705.00/M	DR73-150-R
22.0	22.65	1.62	1.67	0.107	17.0	513-1532-1-ND	1.67	1.52	1.13	513-1532-2-ND	1,350	705.00/M	DR73-220-R
33.0	34.41	1.31	1.35	0.1660	21.0	513-1131-1-ND	1.67	1.52	1.13	513-1131-2-ND	1,350	705.00/M	DR73-330-R
47.0	48.62	1.08	1.14	0.2410	24.9	513-1136-1-ND	1.67	1.52	1.13	513-1136-2-ND	1,350	705.00/M	DR73-470-R
100	101.4	0.73	0.79	0.527	36.0	513-1531-1-ND	1.67	1.52	1.13	513-1531-2-ND	1,350	705.00/M	DR73-101-R
220	223.3	0.52	0.53	1.05	53.5	513-1663-1-ND ***NEW!***	1.67	1.52	1.13	513-1663-2-ND ***NEW!***	1,350	705.00/M	DR73-221-R
						DR74 Series							
1.00	0.952	5.39	10.2	0.0099	3.08	513-1139-1-ND	1.70	1.55	1.16	513-1139-2-ND	1,100	720.00/M	DR74-1R0-R
1.50	1.422	4.94	8.35	0.0118	3.76	513-1389-1-ND	1.70	1.55	1.16	513-1389-2-ND	1,100	720.00/M	DR74-1R5-R
2.20	1.986	4.76	7.06	0.0126	4.45	513-1140-1-ND	1.70	1.55	1.16	513-1140-2-ND	1,100	720.00/M	DR74-2R2-R
3.30	3.396	3.94	5.40	0.0183	5.81	513-1665-1-ND ***NEW!***	1.70	1.55	1.16	513-1665-2-ND ***NEW!***	1,100	720.00/M	DR74-3R3-R
4.70	5.182	3.34	4.37	0.0254	7.18	513-1550-1-ND	1.70	1.55	1.16	513-1550-2-ND	1,100	720.00/M	DR74-4R7-R
6.80	7.344	2.60	3.67	0.0418	8.55	513-1536-1-ND	1.70	1.55	1.16	513-1536-2-ND	1,100	720.00/M	DR74-6R8-R
10.0	9.882	2.41	3.17	0.0489	9.92	513-1137-1-ND	1.70	1.55	1.16	513-1137-2-ND	1,100	720.00/M	DR74-100-R
15.0	16.09	2.11	2.48	0.0637	12.7	513-1138-1-ND	1.70	1.55	1.16	513-1138-2-ND	1,100	720.00/M	DR74-150-R
22.0	21.73	1.75	2.13	0.0925	14.7	513-1390-1-ND	1.70	1.55	1.16	513-1390-2-ND	1,100	720.00/M	DR74-220-R
33.0	33.01	1.41	1.73	0.143	18.1	513-1141-1-ND	1.70	1.55	1.16	513-1141-2-ND	1,100	720.00/M	DR74-330-R
47.0	49.64	1.15	1.41	0.216	22.2	513-1535-1-ND	1.70	1.55	1.16	513-1535-2-ND	1,100	720.00/M	DR74-470-R
68.0	69.67	1.03	1.19	0.265	26.3	513-1690-1-ND ***NEW!***	1.70	1.55	1.16	513-1690-2-ND ***NEW!***	1,100	720.00/M	DR74-680-R
82.0	80.95	0.91	1.11	0.345	28.4	513-1666-1-ND ***NEW!***	1.70	1.55	1.16	513-1666-2-ND ***NEW!***	1,100	720.00/M	DR74-820-R
100	101.6	0.86	0.99	0.383	31.8	513-1225-1-ND	1.70	1.55	1.16	513-1225-2-ND	1,100	720.00/M	DR74-101-R
150	150.0	0.69	0.81	0.591	38.6	513-1388-1-ND	1.70	1.55	1.16	513-1388-2-ND	1,100	720.00/M	DR74-151-R
220	227.0	0.56	0.66	0.907	47.5	513-1391-1-ND	1.70	1.55	1.16	513-1391-2-ND	1,100	720.00/M	DR74-221-R
330	335.6	0.45	0.54	1.41	57.8	513-1392-1-ND	1.70	1.55	1.16	513-1392-2-ND	1,100	720.00/M	DR74-331-R
820	812.7	0.31	0.35	2.93	89.9	513-1667-1-ND ***NEW!***	1.70	1.55	1.16	513-1667-2-ND ***NEW!***	1,100	720.00/M	DR74-821-R
1000	1009	0.27	0.31	3.89	100	513-1387-1-ND	1.70	1.55	1.16	513-1387-2-ND	1,100	720.00/M	DR74-102-R
						DR124 Series							
1.0	0.83	13.9	18.00	.003	—	513-1427-1-ND	1.74	1.58	1.18	513-1427-2-ND	750	551.25	DR124-1R0-R
1.5	1.37	11.1	14.00	.00475	—	513-1428-1-ND	1.74	1.58	1.18	513-1428-2-ND	750	551.25	DR124-1R5-R
2.2	2.04	9.1	11.45	.00592	—	513-1429-1-ND	1.74	1.58	1.18	513-1429-2-ND	750	551.25	DR124-2R2-R
4.7	4.88	6.5	7.65	.01350	—	513-1430-1-ND	1.74	1.58	1.18	513-1430-2-ND	750	551.25	DR124-4R7-R
10	8.94	4.5	5.80	.02333	—	513-1431-1-ND	1.74	1.58	1.18	513-1431-2-ND	750	551.25	DR124-100-R
12	11.5	4.1	4.96	.03167	—	513-1432-1-ND	1.74	1.58	1.18	513-1432-2-ND	750	551.25	DR124-120-R
15	14.2	3.6	4.62	.03730	—	513-1433-1-ND	1.74	1.58	1.18	513-1433-2-ND	750	551.25	DR124-150-R
22	20.7	3.2	3.83	.05399	—	513-1434-1-ND	1.74	1.58	1.18	513-1434-2-ND	750	551.25	DR124-220-R
33	31.2	2.6	3.12	.08083	—	513-1435-1-ND	1.74	1.58	1.18	513-1435-2-ND	750	551.25	DR124-330-R
47	44.0	2.2	2.63	.12466	—	513-1436-1-ND	1.74	1.58	1.18	513-1436-2-ND	750	551.25	DR124-470-R
100	95.1	1.5	1.79	.25667	—	513-1437-1-ND	1.74	1.58	1.18	513-1437-2-ND	750	551.25	DR124-101-R
220	216	1.0	1.15	.55800	—	513-1438-1-ND	1.74	1.58	1.18	513-1438-2-ND	750	551.25	DR124-221-R
330	327	0.83	0.92	.82500	—	513-1439-1-ND	1.74	1.58	1.18	513-1439-2-ND	750	551.25	DR124-331-R
						DR125 Series							
1.00	0.894	15.0	23.6	0.0024	4.43	513-1126-1-ND	1.74	1.58	1.18	513-1126-2-ND	600	441.00	DR125-1R0-R
1.50	1.478	13.8	18.3	0.0029	5.70	513-1689-1-ND ***NEW!***	1.74	1.58	1.18	513-1689-2-ND ***NEW!***	600	441.00	DR125-1R5-R
2.20	2.208	10.9	15.0	0.0045	6.97	513-1662-1-ND ***NEW!***	1.74	1.58	1.18	513-1662-2-ND ***NEW!***	600	441.00	DR125-2R2-R
3.30	3.084	9.26	12.7	0.0063	8.23	513-1529-1-ND	1.74	1.58	1.18	513-1529-2-ND	600	441.00	DR125-3R3-R
4.70	5.274	7.18	9.71	0.0105	10.8	513-1125-1-ND	1.74	1.58	1.18	513-1125-2-ND	600	441.00	DR125-4R7-R
6.80	6.588	6.64	8.68	0.0123	12.0	513-1530-1-ND	1.74	1.58	1.18	513-1530-2-ND	600	441.00	DR125-6R8-R
10.0	9.654	5.35	7.17	0.0189	14.6	513-1525-1-ND	1.74	1.58	1.18	513-1525-2-ND	600	441.00	DR125-100-R
15.0	15.35	4.27	5.69	0.0298	18.4	513-1527-1-ND	1.74	1.58	1.18	513-1527-2-ND	600	441.00	DR125-150-R
22.0	22.36	3.70	4.71	0.0396	22.2	513-1127-1-ND	1.74	1.58	1.18	513-1127-2-ND	600	441.00	DR125-220-R
33.0	33.74	3.28	3.84	0.0505	27.2	513-1528-1-ND	1.74	1.58	1.18	513-1528-2-ND	600	441.00	DR125-330-R
47.0	47.47	2.71	3.24	0.0740	32.3	513-1128-1-ND	1.74	1.58	1.18	513-1128-2-ND	600	441.00	DR125-470-R
68.0	67.91	2.22	2.70	0.101	38.6	513-1386-1-ND	1.74	1.58	1.18	513-1386-2-ND	600	441.00	DR125-680-R
100	102.7	1.78	2.20	0.170	47.5	513-1526-1-ND	1.74	1.58	1.18	513-1526-2-ND	600	441.00	DR125-101-R
220	216.8	1.19	1.51	0.384	69.0	513-1549-1-ND	1.74	1.58	1.18	513-1549-2-ND	600	441.00	DR125-221-R
						DR127 Series							
0.47	0.419	17.9	56.0	0.00195	3.50	513-1059-1-ND	1.88	1.71	1.28	513-1059-2-ND	350	288.75	DR127-R47-R
1.00	0.821	15.5	40.0	0.00313	4.90	513-1218-1-ND	1.88	1.71	1.28	513-1218-2-ND	350	278.25	DR127-1R0-R
1.50	1.357	13.5	31.1	0.00341	6.30	513-1219-1-ND	1.88	1.71	1.28	513-1219-2-ND	350	278.25	DR127-1R5-R
2.20	2.027	12.5	25.5	0.00402	7.70	513-1220-1-ND	1.88	1.71	1.28	513-1220-2-ND	350	278.25	DR127-2R2-R
3.30	2.831	10.5	21.5	0.00567	9.10	513-1221-1-ND	1.88	1.71	1.28	513-1221-2-ND	350	278.25	DR127-3R3-R
4.70	4.841	8.25	16.5	0.00917	11.9	513-1222-1-ND	1.88	1.71	1.28	513-1222-2-ND	350	278.25	DR127-4R7-R
6.80	7.387	7.34	13.3	0.0116	14.7	513-1055-1-ND	1.88	1.71	1.28	513-1055-2-ND	350	278.25	DR127-6R8-R
8.20	8.861	6.32	12.2	0.0157	16.1	513-1058-1-ND	1.95	1.78	1.32	513-1058-2-ND	350	278.25	DR127-8R2-R
10.0	10.47	6.04	11.2	0.0172	17.5	513-1037-1-ND	1.88	1.71	1.28	513-1037-2-ND	350	288.75	DR127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	513-1040-1-ND	1.88	1.71	1.28	513-1040-2-ND	350	278.25	DR127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	513-1044-1-ND	1.88	1.71	1.28	513-1044-2-ND	350	278.25	DR127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	513-1047-1-ND	1.88	1.71	1.28	513-1047-2-ND	350	278.25	DR127-330-R
47.0	47.05	2.95	5.28	0.0719	37.1	513-1050-1-ND	1.88	1.71	1.28	513-1050-2-ND	350	278.25	DR127-470-R
68.0	66.48	2.44	4.44	0.105	44.1	513-1053-1-ND	1.88	1.71	1.28	513-1053-2-ND	350	278.25	DR127-680-R
82.0	79.75	2.09	4.06	0.143	48.3	513-1056-1-ND	1.88	1.71	1.28	513-1056-2-ND	350	278.25	DR127-820-R
100	99.31	1.96	3.64	0.163	53.9	513-1038-1-ND	1.88	1.71	1.28	513-1038-2-ND	350	278.25	DR127-101-R
150	144.9	1.59	3.01	0.247	65.1	513-1041-1-ND	1.95	1.78	1.32	513-1041-2-ND	350	278.25	DR127-151-R
220	221.5	1.29	2.43	0.376	80.5	513-1045-1-ND	1.88	1.71	1.28	513-1045-2-ND	350	278.25	DR127-221-R
330	323.6	1.04	2.01	0.574	97.3	513-1048-1-ND	1.88	1.71	1.28	513-1048-2-ND	350	278.25	DR127-331-R
470	467.1	0.85	1.68	0.861	117	513-1051-1-ND	1.88	1.71	1.28	513-1051-2-ND	350	278.25	DR127-471-R
680	676.7	0.76	1.39	1.08	141	513-1223-1-ND	1.88	1.71	1.28	513-1223-2-ND	350	288.75	DR127-681-R
820	818.1	0.65	1.27	1.47	155	513-1224-1-ND	1.88	1.71	1.28	513-1224-2-ND	350	278.25	DR127-821-R
1000	1005	0.61	1.14	1.66	172	513-1217-1-ND	1.88	1.71	1.28	513-1217-2-ND	350	278.25	DR127-102-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll-off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Shielded Low Profile, High Power Inductors – SD Series (SMD)

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Solder Reflow Temperature:** 240°C for 30 seconds maximum, 260°C for 10 seconds maximum for RoHS Compliant components

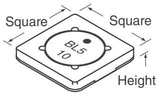

Series	Dimensions – Max. (mm) Square	 Height
SD10	5.20	1.00
SD14	5.20	1.45

Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes Peak	DCR(4) (Ω) Typ.	Volt-µSec(5) Typ.	Part Marking	Digi-Key Part No.	Cut Tape Price Each 1	 10	 100	Digi-Key Part No.	Tape and Reel Pricing 3,800	Coiltronics Part No.
							SD10 Series						
1.00	1.119	1.93	2.25	0.0448	3.3	B	513-1168-1-ND	1.88	1.71	1.28	513-1168-2-ND	795.00/M	SD10-1R0-R
2.20	2.081	1.35	1.65	0.0912	4.5	D	513-1169-1-ND	1.88	1.71	1.28	513-1169-2-ND	795.00/M	SD10-2R2-R
3.30	3.339	1.24	1.31	0.1078	5.7	E	513-1170-1-ND	1.88	1.71	1.28	513-1170-2-ND	795.00/M	SD10-3R3-R
4.70	4.893	1.04	1.08	0.1535	6.9	F	513-1226-1-ND	1.88	1.71	1.28	513-1226-2-ND	795.00/M	SD10-4R7-R
10.0	10.07	0.760	0.752	0.336	9.9	J	513-1167-1-ND	1.88	1.71	1.28	513-1167-2-ND	795.00/M	SD10-100-R
							SD14 Series						
10	9.93	1.1	1.18	0.2058	13.9	L	513-1174-1-ND	1.88	1.71	1.28	513-1174-2-ND	795.00/M	SD14-100-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximate 30% roll-off at 20°C. **Note (4):** DCR limits 20°C. **Note (5):** Applied Volt-Time product (V-uS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

NEW! Power Factor Correction (PFC) Inductors

Implementing power factor correction (PFC) into switch mode power supplies will maximize: • The power handling capability of the power supply • Current handling capacities of power distributing networks

Two types of PFC's Include:

Passive PFC: The simplest form of PFC is passive (Passive PFC). A passive PFC uses a filter at the AC input to correct poor power factor. The passive PFC circuitry uses only passive components — an inductor and some capacitors. Although pleasantly simple and robust, a passive PFC rarely achieves low Total Harmonic Distortion (THD). Also, because the circuit operates at the low line power frequency of 50Hz or 60Hz, the passive elements are normally bulky and heavy.

Active PFC: Offers better Total Harmonic Distortion (THD) and is significantly smaller and lighter than a passive PFC circuit. To reduce the size and cost of passive filter elements, an active PFC operates at a higher switching frequency than the 50Hz/60Hz line frequency. Such topologies as buck, boost and flyback are used in active PFC circuits.

Fig. 1

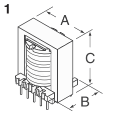

Fig. 2

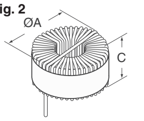

Fig. 3

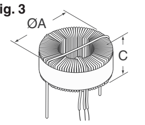

Fig. 4

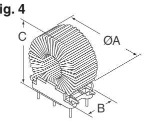

Fig. 5

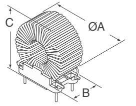

Fig. 6

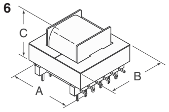

Fig. 7

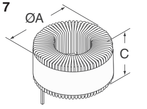

Fig. 8

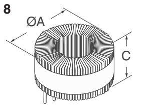

Fig. 9

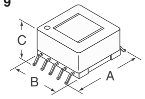

Fig.	Inductance	Aux Winding	Geometry	Core Material	Dimensions - mm A	 B	 C	Output Power	Digi-Key Part No.	Price Each 1	 10	 100	Coiltronics Part No.
									Passive				
1	1.0mH @ 3.4A	Yes	ER28L	Ferrite	30.0	24.0	36.0	—	513-1651-ND	9.55	8.68	6.46	CTX01-15789
2	500µH @ 2.6A	No	Toroid	Powder Iron	ø31.8	—	19.05	—	513-1652-ND	9.55	8.68	6.46	CTX02-12236
3	769µH @ 2.6A	Yes	Toroid	Kool-Mu™/Sendust	ø34.3	—	18.3	—	513-1653-ND	12.64	11.49	8.55	CTX02-12378
4	200µH @ 7.0A	Yes	Toroid	Powder Iron	ø43.0	22.0	47.0	—	513-1660-ND	14.59	13.26	9.87	CTX22-16885
									Active				
1	1.0mH @ 3.1A	Yes	ER28L	Ferrite	30.0	24.0	36.5	100W	513-1655-ND	8.34	7.58	5.64	CTX16-15954
5	200µH @ 2.0A	No	Toroid	Powder Iron	ø35.2	22.0	33.5	200W	513-1656-ND	13.38	12.16	9.05	CTX16-17309-R
6	1.2mH @ 4.7A	Yes	EE42x15	Ferrite	51.3	48.3	38.9	250W	513-1654-ND	20.45	18.58	13.83	CTX08-13679
7	340µH @ 5.3A	Yes	Toroid	Powder Iron	ø40.0	—	19.8	150W	513-1657-ND	22.97	20.87	15.53	CTX16-17769-R
8	140µH @ 3.2A	No	Toroid	Kool-Mu™/Sendust	ø21.0	—	11.0	150W	513-1658-ND	6.32	5.75	4.28	CTX16-18405-R
9	1.0mH @ 1.3A	Yes	EFD25	Ferrite	31.8	27.0	13.10	100W	513-1659-ND	7.95	7.23	5.38	CTX22-15557

NEW! Transformers (7.6 x 7.6 x 4.35 Shielded Drum Core)

Approved for use with LTC Uni-Directional Cell Balancer Demo Circuit BCB151-1 using LT3585 chipset

Inductance (µH) Primary (1-3)	Primary Current Peak (Adc)	Turns Ratio Primary (1-3): Secondary (4-2)	Max. Leakage Inductance (µH) Primary (1-3) Short Sec. (2-4)	DCR @ 20°C (Ω) Max. Primary (1-3)	DCR @ 20°C (Ω) Max. Secondary (4-2)	Isolation Voltage (VAC)	Digi-Key Part No.	Cut Tape Price Each 1	 10	 100	Tape and Reel Pricing 2,200	Coiltronics Part No.
10	3.17	1:2	0.47	0.0978	0.498	500	513-1686-1-ND	1.67	1.52	1.13	705.00/M	CTX02-18713-R
10	3.17	1:4	0.47	0.0978	1.65	500	513-1685-1-ND	1.67	1.52	1.13	705.00/M	CTX02-18714-R

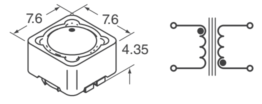

Dual Winding, Shielded Inductors/Transformers

DRQ/Low Profile — SDQ Series (SMD)

Features: Dual winding inductors can be used as either a single inductor, or in coupled inductor/transformer applications (1:1 turns ratio), offering a broad range of inductance and current ratings.

Specifications: • **Operating Temperature:** -40°C ~ 125°C (ranges are application specific) • **Solder Reflow Temperature:** 260°C maximum for 10 seconds maximum • **Isolation Between Windings:** 200VAC (DRQ Series); 500VDC (SDQ Series) • **Turns Ratio:** (1-2):(3-4) 1:1

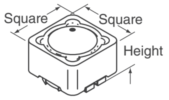

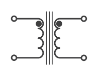

Dual Inductor

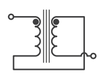

Series Mode

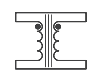

Parallel Mode

Series	Dimensions – Max. (mm) Square	 Height
SDQ12	5.2	1.20
SDQ25	5.2	2.5
DRQ73	7.6	3.55
DRQ74	7.6	4.45
DRQ125	12.5	6.00
DRQ127	12.5	8.00

Rated Inductance (µH)	Parallel Ratings OCL(1) ±20% (µH)	 IRMS(2) Amperes	 ISAT(3) (Amperes Peak)	 DCR(4) (Ω) (Typ.)	 Volt(5) µSec.	Series Ratings OCL(1) ±20% (µH)	 IRMS(2) Amperes	 ISAT(3) (Amperes Peak)	 DCR(4) (Ω) (Typ.)	 Volt(5) µSec.	Digi-Key Part No.	Cut Tape Price Each 1	 10	 100	Tape and Reel‡ Qty.	 Pricing	Coiltronics Part No.
											SDQ Series						
8.2	8.41	0.868	1.05	0.3318	10.15	33.64	0.434	0.524	1.33	20.3	513-1112-1-ND	2.09	1.91	1.42	3,800	885.00/M	SDQ12-8R2-R
68	69.19	0.603	0.484	0.6865	30.7	276.8	0.302	0.242	2.75	61.4	513-1595-1-ND	2.45	2.23	1.66	2,900	1035.00/M	SDQ25-680-R
											DRQ73 Series						
2.20	2.070	4.11	5.52	0.0167	5.15	8.280	2.06	2.76	0.0669	10.3	513-1239-1-ND	1.72	1.57	1.17	—	—	DRQ73-2R2-R
3.30	3.540	3.31	4.22	0.0259	6.73	14.16	1.66	2.11	0.1035	13.5	513-1240-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-3R3-R
4.70	4.422	3.09	3.78	0.0297	7.52	17.69	1.55	1.89	0.1188	15.0	513-1241-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-4R7-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll-off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

‡ For Tape and Reel part number, change 1-ND to 2-ND

(Continued)

COILTRONICS

Dual Winding, Shielded Inductors/Transformers

DRQ/Low Profile — SDQ Series (SMD) *(Cont.)*

Digi-Reel® RoHS

Rated Inductance (µH)	Parallel Ratings					Series Ratings					Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Coiltronics Part No.
	OCL(1) ±20% (µH)	IRMS(2) Amperes	ISAT(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.	OCL(1) ±20% (µH)	IRMS(2) Amperes	ISAT(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.		1	10	100	Qty.	Pricing	
6.80	6.480	2.55	3.12	0.0435	9.11	25.92	1.28	1.56	0.1742	18.2	513-1242-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-6R8-R
10.0	10.30	2.08	2.47	0.0656	11.5	41.20	1.04	1.24	0.2623	23.0	513-1244-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-100-R
15.0	15.01	1.83	2.05	0.0844	13.9	60.04	0.916	1.03	0.339	27.8	513-1245-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-150-R
22.0	22.65	1.62	1.67	0.107	17.0	90.60	0.811	0.83	0.429	34.0	513-1246-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-220-R
33.0	34.41	1.31	1.35	0.166	21.0	137.6	0.653	0.68	0.665	42.0	513-1247-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-330-R
47.0	48.62	1.08	1.14	0.241	24.9	194.5	0.542	0.57	0.965	49.8	513-1248-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-470-R
100	101.4	0.73	0.79	0.527	36.0	405.6	0.367	0.39	2.11	72.0	513-1251-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-101-R
150	150.9	0.58	0.65	0.851	44.0	603.6	0.289	0.32	3.41	88.0	513-1252-1-ND	1.72	1.57	1.17	—	—	DRQ73-151-R
220	223.3	0.52	0.53	1.05	53.5	893.2	0.260	0.27	4.20	107	513-1253-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-221-R
470	465.8	0.35	0.37	2.36	77.2	1863	0.173	0.18	9.44	154	513-1255-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-471-R
1000	995.0	0.26	0.25	4.34	113	3980	0.128	0.13	17.36	226	513-1258-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-102-R
DRQ74 Series																	
1.00	0.952	5.33	10.2	0.0100	3.08	3.808	2.66	5.10	0.0400	6.16	513-1260-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-1R0-R
3.30	3.396	3.94	5.40	0.0183	5.81	13.58	1.97	2.70	0.0732	11.6	513-1263-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-3R3-R
4.70	5.182	3.34	4.37	0.0254	7.18	20.73	1.67	2.19	0.102	14.4	513-1264-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-4R7-R
6.80	7.344	2.60	3.67	0.0418	8.55	29.38	1.30	1.84	0.167	17.1	513-1265-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-6R8-R
10.0	9.882	2.41	3.17	0.0489	9.92	39.53	1.20	1.58	0.196	19.8	513-1267-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-100-R
15.0	16.09	2.11	2.48	0.0637	12.7	64.36	1.05	1.24	0.255	25.4	513-1268-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-150-R
22.0	21.73	1.75	2.13	0.0925	14.7	86.92	0.874	1.07	0.371	29.4	513-1148-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-220-R
33.0	33.01	1.41	1.73	0.143	18.1	132.0	0.702	0.87	0.574	36.2	513-1269-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-330-R
47.0	49.64	1.15	1.41	0.216	22.2	198.6	0.573	0.71	0.865	44.4	513-1270-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-470-R
68.0	69.67	1.03	1.19	0.265	26.3	278.7	0.517	0.60	1.06	52.6	513-1271-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-680-R
100	101.6	0.86	0.99	0.383	31.8	406.4	0.430	0.49	1.53	63.6	513-1273-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-101-R
150	150.0	0.69	0.81	0.591	38.6	600.0	0.346	0.41	2.37	77.2	513-1274-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-151-R
220	227.0	0.56	0.66	0.907	47.5	908.0	0.279	0.33	3.63	95.0	513-1275-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-221-R
470	465.3	0.40	0.46	1.74	68.1	1861	0.202	0.23	6.97	136	513-1277-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-471-R
1000	1009	0.27	0.31	3.89	100	4036	0.135	0.16	15.6	200	513-1280-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-102-R
DRQ125 Series																	
3.30	3.084	9.26	12.7	0.0063	8.23	12.34	4.63	6.35	0.0253	16.5	513-1285-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-3R3-R
6.80	6.588	6.64	8.68	0.0123	12.0	26.35	3.32	4.34	0.0492	24.0	513-1287-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-6R8-R
10.0	9.654	5.35	7.17	0.0189	14.6	38.62	2.67	3.59	0.0757	29.2	513-1289-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-100-R
15.0	15.35	4.27	5.69	0.0298	18.4	61.40	2.13	2.85	0.120	36.8	513-1290-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-150-R
22.0	22.36	3.70	4.71	0.0396	22.2	89.44	1.84	2.36	0.159	44.4	513-1291-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-220-R
33.0	33.74	3.28	3.84	0.0505	27.2	135.0	1.64	1.92	0.203	54.4	513-1292-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-330-R
47.0	47.47	2.71	3.24	0.0740	32.3	189.9	1.35	1.62	0.297	64.6	513-1293-1-ND	1.87	1.70	1.27	—	—	DRQ125-470-R
82.0	86.89	2.05	2.39	0.128	43.7	347.6	1.03	1.20	0.515	87.4	513-1295-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-820-R
100	102.7	1.78	2.20	0.170	47.5	410.8	0.892	1.10	0.682	95.0	513-1296-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-101-R
220	216.8	1.19	1.51	0.384	69.0	867.2	0.594	0.755	1.54	138	513-1298-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-221-R
470	473.1	0.87	1.02	0.718	102	1892	0.434	0.510	2.87	204	513-1300-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-471-R
680	679.8	0.70	0.85	1.10	122	2719	0.350	0.425	4.42	244	513-1301-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-681-R
DRQ127 Series																	
2.20	2.027	12.5	25.5	0.00373	7.70	8.108	6.23	12.7	0.0161	15.4	513-1307-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-2R2-R
3.30	2.831	10.4	21.5	0.00567	9.10	11.32	5.23	10.8	0.0229	18.2	513-1308-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-3R3-R
4.70	4.841	8.25	16.5	0.00917	11.9	19.36	4.13	8.24	0.0367	23.8	513-1147-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-4R7-R
6.80	7.387	7.34	13.3	0.0116	14.7	29.55	3.67	6.67	0.0465	29.4	513-1309-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-6R8-R
10.0	10.47	6.04	11.2	0.0172	17.5	41.88	3.02	5.60	0.0686	35.0	513-1143-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	56.36	2.51	4.83	0.099	40.6	513-1144-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	91.72	2.00	3.78	0.157	51.8	513-1145-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	135.7	1.61	3.11	0.241	63.0	513-1146-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-330-R
47.0	47.05	2.95	5.28	0.0719	37.1	188.2	1.47	2.64	0.288	74.2	513-1311-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-470-R
68.0	66.48	2.44	4.44	0.105	44.1	265.9	1.22	2.22	0.421	88.2	513-1312-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-680-R
100	99.31	1.96	3.64	0.163	53.9	397.2	0.980	1.82	0.653	107.8	513-1314-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-101-R
150	144.9	1.59	3.01	0.247	65.1	579.6	0.796	1.51	0.989	130.2	513-1315-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-151-R
220	221.5	1.29	2.43	0.376	80.5	886.0	0.645	1.22	1.50	161	513-1316-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-221-R
330	323.6	1.04	2.01	0.574	97.3	1294	0.522	1.01	2.30	195	513-1317-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-331-R
470	467.1	0.85	1.68	0.861	117	1868	0.427	0.838	3.44	234	513-1318-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-471-R
1000	1005	0.61	1.14	1.66	172	4020	0.307	0.571	6.64	344	513-1321-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-102-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll-off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

‡ For Tape and Reel part number, change 1-ND to 2-ND

Common Mode Inductors (SMD) – CMS Series

Specifications:
- **Operating Temperature:** -40°C ~ 160°C • **Isolation Voltage:** 300Vdc, Noise attenuation up to 44dB
- **Frequency Range:** Up to 100MHz • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

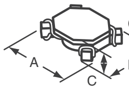

(CMS1 Shown)

Series	Dimensions (mm)		
	A	B	C
CMS1	9.4	7.2	2.6
CMS2	8.9	11.4	6.0
CMS3	11.4	14.0	6.0

RoHS COMPLIANT

Digi-Reel®

OCL Nominal(1) ±20% (µH)	I_{RMS} Amperes (Max.)†	DCR @ 20°C (mΩ) (Typ.)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel§		Coiltronics Part No.
				1	10	100	Qty.	Pricing	
4.5	7.00	2.7	513-1114-1-ND	2.34	2.13	1.59	2,000	990.00/M	CMS1-1-R
28	5.70	5	513-1543-1-ND	3.69	3.36	2.50	600	936.00	CMS3-1-R
40	4.40	8	513-1687-1-ND ***NEW!***	3.37	3.07	2.28	800	1140.00	CMS2-2-R
41.5	2.60	19	513-1113-1-ND	2.34	2.13	1.59	2,000	990.00/M	CMS1-7-R
102	2.80	19	513-1115-1-ND	3.37	3.07	2.28	800	1140.00	CMS2-4-R
131	1.15	100	513-1683-1-ND ***NEW!***	2.34	2.13	1.59	2,000	990.00/M	CMS1-12-R
205	0.85	186	513-1661-1-ND ***NEW!***	2.34	2.13	1.59	2,000	990.00/M	CMS1-14-R
217	2.85	20	513-1523-1-ND	3.69	3.36	2.50	600	936.00	CMS3-6-R

Note (1): Definition: OCL = Open Circuit Inductance † 160°C maximum, inductance values are sustained up to 160°C § For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

COILTRONICS® Toroidal Power Inductors

Specifications: Operating Temperature: -40°C ~ 75°C, meets UL94V-0 flammability standards

Fig.	Inductance (µH)	OCL(1) ± 20% (µH)	I_{DC}(2) Amperes	I_{SAT}(3) Amperes	DCR@20°C Max. (mΩ)	Dimensions - mm øD	Dimensions - mm Thickness	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Coiltronics Part No.
1	10	9.60	4.7	4.5	18.3	12.7	7.8	513-1676-ND ***NEW!***	2.49	2.26	1.68	CTX10-2-52-R
	10	9.68	8.7	11.1	10.4	22.2	13.9	513-1677-ND ***NEW!***	2.49	2.26	1.68	CTX10-5-52-R
	10	10.04	11.4	13.5	8.0	25.7	18.0	513-1678-ND ***NEW!***	4.15	3.78	2.81	CTX10-7-52-R
	10	10.04	16.9	20.9	5.1	34.0	21.4	513-1675-ND ***NEW!***	4.86	4.42	3.29	CTX10-10-52-R
	50	50.00	4.9	4.9	32.6	21.6	13.6	513-1548-ND	3.09	2.81	2.09	CTX50-2-52-R
	50	50.29	2.6	2.7	71.5	16.2	9.0	513-1108-ND	1.60	1.46	1.08	CTX50-1-52-R
	100	100.40	2.5	2.4	106	15.5	12.4	513-1673-ND ***NEW!***	2.70	2.46	1.83	CTX100-1-52-R
	100	101.70	4.4	4.3	53.4	24.0	16.6	513-1674-ND ***NEW!***	3.09	2.81	2.09	CTX100-2-52-R
	150	150.60	7.7	7.5	40.1	46.4	19.8	513-1682-ND ***NEW!***	9.76	8.87	6.60	CTX150-5-52-R
2	50	50.29	2.6	2.7	71.5	16.2	9.0	513-1116-ND	2.73	2.49	1.85	CTX50-1-52LP-R
	50	50.00	4.9	4.9	32.6	21.6	13.6	513-1547-ND	3.76	3.42	2.55	CTX50-2-52LP-R
	250	251.1	4.2	4.2	83.3	31.2	19.0	513-1117-ND	4.65	4.23	3.15	CTX250-2-52LP-R
3	20	19.60	3.2	3.2	39.2	12.5	11.4	513-1688-ND ***NEW!***	3.66	3.33	2.48	CTX20-2-52M-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc. **Note (2):** DC Current for an approximate ΔT of 30°C at 75°C ambient with no core loss.
Note (3): Peak current for an approximate 30% roll-off in open circuit inductance.

Fig. 1

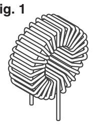

Fig. 2

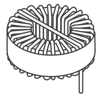

Fig. 3 *NEW!*

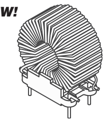

High Current Pressed Power Inductors (SMD) – HCP0703, HCM0703 and HCP0805 Series

- **Core Material:** Pressed powdered iron • **Frequency Range:** Up to 2MHz • **Operating Temperature Range:** HCP0703 and HCM0703: -55°C ~ 125°C; HCP0805: -40°C ~ 125°C
- **Solder Reflow Temperature:** 260°C for 10 seconds maximum

Dim. in mm

Fig.	Inductance (µH)	OCL(1) ±20% (µH)	I_{RMS}(2) Amps	I_{SAT}(3) Amps	DCR @ 20°C (Max) (mΩ)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Coiltronics Part No.
						HCP0703						
1	0.15	0.15	26	52	2.5	513-1366-1-ND	1.61	1.47	1.09	—	—	HCP0703-R15-R
	0.22	0.22	23	40	2.8	513-1367-1-ND	1.61	1.47	1.09	—	—	HCP0703-R22-R
	1.0	1.0	11	22	10	513-1359-1-ND	1.61	1.47	1.09	—	—	HCP0703-1R0-R
	3.3	3.3	6	13.5	30	513-1362-1-ND	1.61	1.47	1.09	—	—	HCP0703-3R3-R
	6.8	6.8	4.5	8	60	513-1364-1-ND	1.61	1.47	1.09	—	—	HCP0703-6R8-R
	10.0	10.0	3	7.0	105	513-1358-1-ND	1.61	1.47	1.09	—	—	HCP0703-100-R
						NEW! HCM0703 NEW!						
2	0.15	0.15	26	52	2.5	513-1698-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-R15-R
	0.22	0.22	23	40	2.8	513-1699-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-R22-R
	0.47	0.47	17.5	26	4.2	513-1700-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-R47-R
	1.0	1.0	11	22	10	513-1701-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-1R0-R
	1.5	1.5	9	18	15	513-1702-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-1R5-R
	2.2	2.2	8	14	20	513-1703-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-2R2-R
	3.3	3.3	6	13.5	30	513-1704-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-3R3-R
	4.7	4.7	5.5	10	40	513-1705-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-4R7-R
	6.8	6.8	4.5	8	60	513-1706-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-6R8-R
	8.2	8.2	4	7.5	68	513-1707-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-8R2-R
	10.0	10.0	3.2	7.0	77.6	513-1708-1-ND	2.06	1.88	1.40	1,500	870.00/M	HCM0703-100-R
						NEW! HCP0805 NEW!						
3	0.68	0.68	17.5	25	4.5	513-1692-1-ND	2.38	2.17	1.61	700	703.50	HCP0805-R68-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.25Vrms, 0.0Adc. **Note (2):** DC current for an approximate ΔT of 40°C without core loss. **Note (3):** Peak for approximately 20% rolloff (at 20°C) § For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

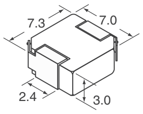

Fig. 2 *NEW!*

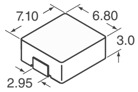

Fig. 3 *NEW!*

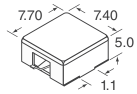

Shielded High Power Inductors Low Profile (SMD) – DR10 Series

- **Core Material:** Ferrite • **Frequency Range:** Up to 1MHz • **Operating Temperature Range:** -40°C ~ 125°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

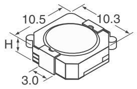

Inductance (µH)	OCL(1) ±30% (µH)	I_{RMS}(2) Amps	I_{SAT}(3) Amps	DCR @20°C (mΩ) (max.)	Dimension H (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Coiltronics Part No.
						DR1030							
1.1	1.1	7.0	9.50	7.9	3.0	513-1327-1-ND	1.92	1.75	1.30	513-1327-2-ND	1,000	810.00	DR1030-1R1-R
1.8	1.9	5.9	7.41	11.0	3.0	513-1328-1-ND	1.92	1.75	1.30	513-1328-2-ND	1,000	810.00	DR1030-1R8-R
5.2	5.2	3.7	4.75	27.5	3.0	513-1334-1-ND	1.92	1.75	1.30	513-1334-2-ND	1,000	810.00	DR1030-5R2-R
6.8	6.8	3.5	3.90	30.0	3.0	513-1336-1-ND	1.92	1.75	1.30	513-1336-2-ND	1,000	810.00	DR1030-6R8-R
8.2	8.4	3.3	3.54	34.1	3.0	513-1338-1-ND	1.92	1.75	1.30	513-1338-2-ND	1,000	810.00	DR1030-8R2-R
10	10.4	2.8	3.18	48.0	3.0	513-1322-1-ND	1.92	1.75	1.30	513-1322-2-ND	1,000	810.00	DR1030-100-R
15	14.8	2.3	2.66	68.8	3.0	513-1325-1-ND	1.92	1.75	1.30	513-1325-2-ND	1,000	810.00	DR1030-150-R
47	47.9	1.3	1.52	200.0	3.0	513-1333-1-ND	1.92	1.75	1.30	513-1333-2-ND	1,000	810.00	DR1030-470-R
100	100	0.9	1.05	450.0	3.0	513-1323-1-ND	1.92	1.75	1.30	513-1323-2-ND	1,000	810.00	DR1030-101-R
120	119.3	0.8	0.95	602.0	3.0	513-1324-1-ND	1.92	1.75	1.30	513-1324-2-ND	1,000	810.00	DR1030-121-R
150	155.3	0.7	0.86	700	3.0	513-1326-1-ND	1.92	1.75	1.30	—	—	—	DR1030-151-R
						DR1040							
3.8	3.6	5.50	6.40	13.0	4.0	513-1395-1-ND	1.92	1.75	1.30	513-1395-2-ND	850	688.50	DR1040-3R8-R
5.2	5.2	5.40	5.50	17.0	4.0	513-1396-1-ND	1.92	1.75	1.30	513-1396-2-ND	850	688.50	DR1040-5R2-R
7.0	6.8	4.50	4.80	20.0	4.0	513-1397-1-ND	1.92	1.75	1.30	513-1397-2-ND	850	688.50	DR1040-7R0-R
10	9.6	3.80	4.40	35.0	4.0	513-1399-1-ND	1.92	1.75	1.30	513-1399-2-ND	850	688.50	DR1040-100-R
15	14.9	3.10	3.60	50.0	4.0	513-1400-1-ND	1.92	1.75	1.30	513-1400-2-ND	850	688.50	DR1040-150-R
22	21.1	2.50	2.90	73.0	4.0	513-1401-1-ND	1.92	1.75	1.30	513-1401-2-ND	850	688.50	DR1040-220-R
33	32.6	2.20	2.45	93.0	4.0	513-1402-1-ND	1.92	1.75	1.30	513-1402-2-ND	850	688.50	DR1040-330-R
47	45.8	1.90	2.10	128	4.0	513-1403-1-ND	1.92	1.75	1.30	513-1403-2-ND	850	688.50	DR1040-470-R
68	65.3	1.42	1.65	183	4.0	513-1404-1-ND	1.92	1.75	1.30	513-1404-2-ND	850	688.50	DR1040-680-R
100	101.4	1.25	1.35	304	4.0	513-1406-1-ND	1.92	1.75	1.30	513-1406-2-ND	850	688.50	DR1040-101-R
150	148.3	0.85	1.15	430	4.0	513-1407-1-ND	1.92	1.75	1.30	513-1407-2-ND	850	688.50	DR1040-151-R
220	216.2	0.70	0.92	640	4.0	513-1408-1-ND	1.92	1.75	1.30	513-1408-2-ND	850	688.50	DR1040-221-R
330	323.4	0.52	0.70	1090	4.0	513-1409-1-ND	1.92	1.75	1.30	513-1409-2-ND	850	688.50	DR1040-331-R
						DR1050							
1.5	1.37	8.60	10.50	5.0	5.0	513-1411-1-ND	1.92	1.75	1.30	513-1411-2-ND	500	405.00	DR1050-1R5-R
2.2	2.27	7.52	9.25	6.8	5.0	513-1412-1-ND	1.92	1.75	1.30	513-1412-2-ND	500	405.00	DR1050-2R2-R
4.7	4.43	6.13	6.70	11.9	5.0	513-1413-1-ND	1.92	1.75	1.30	513-1413-2-ND	500	405.00	DR1050-4R7-R
8.2	8.09	5.24	5.00	19.0	5.0	513-1414-1-ND	1.92	1.75	1.30	513-1414-2-ND	500	405.00	DR1050-8R2-R
10	10.1	4.80	4.58	22.5	5.0	513-1415-1-ND	1.92	1.75	1.30	513-1415-2-ND	500	405.00	DR1050-100-R
15	14.8	3.80	3.70	32.5	5.0	513-1416-1-ND	1.92	1.75	1.30	513-1416-2-ND	500	405.00	DR1050-150-R
22	23.5	3.12	3.00	48.4	5.0	513-1417-1-ND	1.92	1.75	1.30	513-1417-2-ND	500	405.00	DR1050-220-R
33	34.3	2.56	2.50	71.9	5.0	513-1418-1-ND	1.92	1.75	1.30	513-1418-2-ND	500	405.00	DR1050-330-R
47	47.1	2.06	2.10	111	5.0	513-1419-1-ND	1.92	1.75	1.30	513-1419-2-ND	500	405.00	DR1050-470-R
56	56.7	1.96	1.94	123	5.0	513-1420-1-ND	1.92	1.75	1.30	513-1420-2-ND	500	405.00	DR1050-560-R
68	67.2	1.84	1.70	139	5.0	513-1421-1-ND	1.92	1.75	1.30	513-1421-2-ND	500	405.00	DR1050-680-R
100	97.5	1.52	1.45	205	5.0	513-1422-1-ND	1.92	1.75	1.30	513-1422-2-ND	500	405.00	DR1050-101-R
150	149.2	1.26	1.15	298	5.0	513-1423-1-ND	1.92	1.75	1.30	513-1423-2-ND	500	405.00	DR1050-151-R
220	221.8	1.00	0.98	472	5.0	513-1424-1-ND	1.92	1.75	1.30	513-1424-2-ND	500	405.00	DR1050-221-R
330	320.6	0.83	0.80	693	5.0	513-1425-1-ND	1.92	1.75	1.30	513-1425-2-ND	500	405.00	DR1050-331-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc **Note (2):** DC current for an approximate ΔT of 30°C without core loss. **Note (3):** Peak for approximately 35% rolloff maximum (at 25°C)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COILTRONICS®

Low Profile Power Inductors
Shielded Drum Core (SMD)

RoHS COMPLIANT

Digi-Reel®

Specifications: • **Frequency Range:** up to 4MHz (Up to 300KHz for the SD3814 Series) • **Operating Temperature Range:** -40°C ~ 125°C (-40°C ~ 85°C for the SD3814 Series) • **Solder Reflow Temperature:** 260°C max. for 10 seconds maximum

Fig. 1

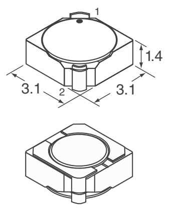

Bottom View

Fig. 2

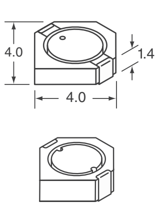

Bottom View

Fig. 3

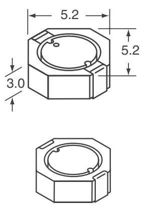

Bottom View

Fig. 4

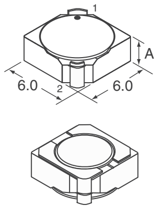

Bottom View

Fig. 5

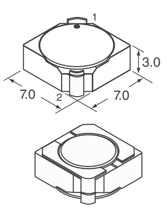

Bottom View

Fig. 6

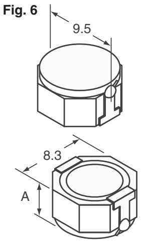

Bottom View

Fig. 7

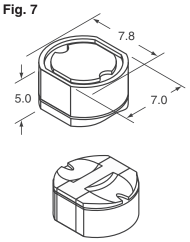

Bottom View

Inductance (µH)	OCL(1) (µH)	I_{RMS}(2) Amps	I_{SAT}(3) Amps	DCR (mΩ) @20°C (Typical)	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
							1	10	100		Qty.	Pricing	
Fig. 1 — SD3114 Series													
4.7	4.9	0.77	1.14	251	—	513-1561-1-ND	1.57	1.43	1.07	513-1561-2-ND	4,100	846.00/M	SD3114-4R7-R
6.8	6.72	0.71	0.98	296	—	513-1562-1-ND	1.57	1.43	1.07	513-1562-2-ND	4,100	846.00/M	SD3114-6R8-R
10	10.4	0.57	0.78	458	—	513-1563-1-ND	1.57	1.43	1.07	513-1563-2-ND	4,100	846.00/M	SD3114-100-R
Fig. 2 — SD3814 Series													
4.7	4.276	1.06	1.29	141	—	513-1564-1-ND	1.68	1.53	1.14	513-1564-2-ND	4,150	900.00/M	SD3814-4R7-R
Fig. 3 — SD53 Series													
2.00	2.00	2.64	3.30	23	—	513-1453-1-ND	1.21	1.10	.82	513-1453-2-ND	2,600	510.00/M	SD53-2R0-R
3.30	3.30	2.26	2.60	29	—	513-1454-1-ND	1.21	1.10	.82	513-1454-2-ND	2,600	510.00/M	SD53-3R3-R
4.70	4.70	2.01	2.10	39	—	513-1455-1-ND	1.21	1.10	.82	513-1455-2-ND	2,600	510.00/M	SD53-4R7-R
6.80	6.80	1.65	1.85	59	—	513-1456-1-ND	1.21	1.10	.82	513-1456-2-ND	2,600	510.00/M	SD53-6R8-R
10.0	10.0	1.41	1.40	77	—	513-1457-1-ND	1.21	1.10	.82	513-1457-2-ND	2,600	510.00/M	SD53-100-R
15.0	15.0	1.10	1.10	122	—	513-1458-1-ND	1.21	1.10	.82	513-1458-2-ND	2,600	510.00/M	SD53-150-R
22.0	22.0	0.81	0.94	179	—	513-1459-1-ND	1.21	1.10	.82	513-1459-2-ND	2,600	510.00/M	SD53-220-R
47.0	47.0	0.64	0.64	303	—	513-1460-1-ND	1.21	1.10	.82	513-1460-2-ND	2,600	510.00/M	SD53-470-R
68.0	68.0	0.52	0.58	452	—	513-1461-1-ND	1.81	1.65	1.23	513-1461-2-ND	2,600	765.00/M	SD53-680-R
100	100	0.44	0.45	689	—	513-1462-1-ND	1.21	1.10	.82	513-1462-2-ND	2,600	510.00/M	SD53-101-R
Fig. 4 — SD6020 Series													
4.1	3.9	2.22	1.95	47.5	2.0	513-1463-1-ND	1.35	1.23	.92	513-1463-2-ND	2,600	570.00/M	SD6020-4R1-R
10	9.7	1.39	1.20	103.3	2.0	513-1465-1-ND	1.35	1.23	.92	513-1465-2-ND	2,600	570.00/M	SD6020-100-R
47	45	0.61	0.54	495.8	2.0	513-1468-1-ND	1.35	1.23	.92	513-1468-2-ND	2,600	570.00/M	SD6020-470-R
Fig. 4 — SD6030 Series													
2.7	2.7	4.08	2.60	13	3.0	513-1471-1-ND	1.35	1.23	.92	513-1471-2-ND	2,000	570.00/M	SD6030-2R7-R
3.3	3.3	3.54	2.40	18	3.0	513-1472-1-ND	1.35	1.23	.92	513-1472-2-ND	2,000	570.00/M	SD6030-3R3-R
4.2	4.1	3.11	2.20	23	3.0	513-1473-1-ND	1.35	1.23	.92	513-1473-2-ND	2,000	570.00/M	SD6030-4R2-R
10	9.3	2.15	1.30	48	3.0	513-1475-1-ND	1.35	1.23	.92	513-1475-2-ND	2,000	570.00/M	SD6030-100-R
22	20.4	1.57	0.90	90	3.0	513-1477-1-ND	1.35	1.23	.92	513-1477-2-ND	2,000	570.00/M	SD6030-220-R
44	44.0	1.10	0.62	185	3.0	513-1478-1-ND	1.35	1.23	.92	513-1478-2-ND	2,000	570.00/M	SD6030-440-R
68	65.6	0.92	0.52	263	3.0	513-1479-1-ND	1.35	1.23	.92	513-1479-2-ND	2,000	570.00/M	SD6030-680-R
100	94.4	0.76	0.42	385	3.0	513-1480-1-ND	1.35	1.23	.92	513-1480-2-ND	2,000	570.00/M	SD6030-101-R
Fig. 5 — SD7030 Series													
3.3	3.3	3.7	3.00	20	—	513-1481-1-ND	1.63	1.49	1.11	513-1481-2-ND	1,500	690.00/M	SD7030-3R3-R
5.0	4.9	3.2	2.40	26	—	513-1482-1-ND	1.63	1.49	1.11	513-1482-2-ND	1,500	690.00/M	SD7030-5R0-R
7.3	7.0	2.3	2.10	45	—	513-1483-1-ND	1.63	1.49	1.11	513-1483-2-ND	1,500	690.00/M	SD7030-7R3-R
10	10.0	2.1	1.70	54	—	513-1485-1-ND	1.63	1.49	1.11	513-1485-2-ND	1,500	690.00/M	SD7030-100-R
22	21.0	1.4	1.20	107	—	513-1486-1-ND	1.63	1.49	1.11	513-1486-2-ND	1,500	690.00/M	SD7030-220-R
68	66.6	0.85	0.65	253	—	513-1488-1-ND	1.63	1.49	1.11	513-1488-2-ND	1,500	690.00/M	SD7030-680-R
Fig. 6 — SD8328 Series													
3.3	3.4	6.1	4.0	14	3.0	513-1491-1-ND	1.49	1.36	1.01	513-1491-2-ND	1,280	630.00/M	SD8328-3R3-R
4.7	5.0	4.5	3.6	19	3.0	513-1492-1-ND	1.49	1.36	1.01	513-1492-2-ND	1,280	630.00/M	SD8328-4R7-R
10	9.1	3.3	2.6	36	3.0	513-1494-1-ND	1.49	1.36	1.01	513-1494-2-ND	1,280	630.00/M	SD8328-100-R
15	14.5	2.35	2.0	53	3.0	513-1495-1-ND	1.49	1.36	1.01	513-1495-2-ND	1,280	630.00/M	SD8328-150-R
22	21.1	1.85	1.7	76	3.0	513-1496-1-ND	2.27	2.07	1.54	—	—	—	SD8328-220-R
33	31.9	1.45	1.4	120	3.0	513-1497-1-ND	1.49	1.36	1.01	513-1497-2-ND	1,280	630.00/M	SD8328-330-R
47	44.9	1.30	1.2	150	3.0	513-1498-1-ND	2.27	2.07	1.54	513-1498-2-ND	1,280	960.00/M	SD8328-470-R
100	97.0	0.80	0.8	330	3.0	513-1500-1-ND	1.49	1.36	1.01	513-1500-2-ND	1,280	630.00/M	SD8328-101-R
Fig. 6 — SD8350 Series													
6.8	6.8	3.90	4.4	20.8	4.5	513-1502-1-ND	2.49	2.26	1.68	—	—	—	SD8350-6R8-R
10	9.9	3.20	4.0	31.4	4.5	513-1503-1-ND	2.49	2.26	1.68	513-1503-2-ND	750	787.50	SD8350-100-R
22	20.4	1.80	2.6	63.5	4.5	513-1504-1-ND	1.63	1.49	1.11	513-1504-2-ND	750	517.50	SD8350-220-R
47	44.9	1.30	1.8	130	4.5	513-1505-1-ND	1.63	1.49	1.11	513-1505-2-ND	750	517.50	SD8350-470-R
68	65.1	1.00	1.5	200.8	4.5	513-1506-1-ND	1.63	1.49	1.11	513-1506-2-ND	750	517.50	SD8350-680-R
100	99.7	0.80	1.3	308.0	4.5	513-1507-1-ND	2.49	2.26	1.68	—	—	—	SD8350-101-R
Fig. 7 — LDS0705 Series													
4.7	5.08	3.32	3.53	21	—	513-1445-1-ND	1.31	1.20	.89	513-1445-2-ND	1,000	555.00	LDS0705-4R7M-R
6.8	6.34	3.11	3.16	24	—	513-1693-1-ND ***NEW!***	1.31	1.20	.89	513-1693-2-ND ***NEW!***	1,000	555.00	LDS0705-6R8M-R
10.0	9.30	2.54	2.61	36	—	513-1446-1-ND	1.31	1.20	.89	513-1446-2-ND	1,000	555.00	LDS0705-100M-R
15.0	14.78	2.04	2.07	56	—	513-1447-1-ND	1.31	1.20	.89	513-1447-2-ND	1,000	555.00	LDS0705-150M-R
47.0	45.71	1.21	1.18	158	—	513-1449-1-ND	1.31	1.20	.89	513-1449-2-ND	1,000	555.00	LDS0705-470M-R
150.0	152.0	0.649	0.645	554	—	513-1451-1-ND	1.31	1.20	.89	513-1451-2-ND	1,000	555.00	LDS0705-151M-R
220.0	216.5	0.584	0.541	680	—	513-1452-1-ND	1.31	1.20	.89	513-1452-2-ND	1,000	555.00	LDS0705-221M-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc. **Note (2)**: Irms: DC current for an approximate ΔT of 40°C (LDS0705 30°C) without core loss. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3)**: Isat Amperes peak for approximately 30% rolloff @20°C (SD3114 and SD3814 Series), 30% rolloff @25°C (SD53), 35% rolloff @25°C (SD6020, SD6030, SD7030, SD8328, SD8350 Series), 15% rolloff @25°C (LDS0705 Series)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

COILTRONICS®

Shielded Low Profile High Current Power Inductors (SMD)

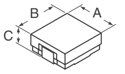

Digi-Reel® RoHS COMPLIANT

Series	Dim. - mm A	B	C
FP0705	7.0	7.0	4.95
FP0708	7.0	8.5	7.2
FP0805	7.62	7.49	4.96
FP0807	7.4	7.6	7.0
FP1005	10.2	7.0	4.95
FP1006 (R1)	10.2	8.0	6.0
FP1006 (R2)	10.0	8.0	6.0
FP1007 (R1)	7.8	10.2	6.8
FP1007 (R2)	7.8	10.2	6.3
FP1007 (R3)	7.8	10.2	7.3
FP1105	11.0	8.0	4.9
FP1107 (R1)	7.2	11.0	7.5
FP1107 (R2)	7.2	11.0	7.2

Series	Dim. - mm A	B	C
FP1109	11.2	11.2	9.0
FP3	6.7	7.3	3.0
FP1308	12.95	13.7	8.0
HC7	13.0	13.8	5.5
HC8LP	10.4	10.4	3.5
HC9 (0.20 ~ 1.5µH)	13.1	13.4	7.5
HC9 (2.2 ~ 47.0µH)	13.1	13.8	7.5
HCP0704 (1.0µH)	6.8	6.8	4.2
HCP0704 (2.3 ~ 4.7µH)	6.8	6.8	4.0
HCP0805	7.4	7.7	5.0
HCP1104	10.0	11.5	4.0
HCP1305	12.9	13.8	5.0

Series	Frequency Range	Operating Ambient Temperature Range
FP0705	Up to 2MHz	-40°C ~ 125°C
FP0708	Up to 2MHz	-40°C ~ 125°C
FP0805	Up to 2MHz	-40°C ~ 125°C
FP0807	Up to 2MHz	-40°C ~ 125°C
FP1005	Up to 2MHz	-40°C ~ 125°C
FP1006	Up to 2MHz	-40°C ~ 125°C
FP1007	Up to 2MHz	-40°C ~ 125°C
FP1105	Up to 2MHz	-40°C ~ 125°C
FP1107	Up to 2MHz	-40°C ~ 125°C
FP1109	Up to 2MHz	-40°C ~ 125°C

Series	Frequency Range	Operating Ambient Temperature Range
FP3	Up to 2MHz	-40°C ~ 155°C
FP1308	Up to 2MHz	-40°C ~ 125°C
HC7	1kHz ~ 500kHz	-40°C ~ 155°C
HC8LP	1kHz ~ 500kHz	-40°C ~ 155°C
HC9	1kHz ~ 500kHz	-40°C ~ 155°C
HCP0704	Up to 2MHz	-40°C ~ 155°C
HCP0805	Up to 2MHz	-40°C ~ 125°C
HCP1104	Up to 1MHz	-55°C ~ 125°C
HCP1305	Up to 1MHz	-55°C ~ 125°C

Inductance (µH)	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (mΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
FP0705R1 Series, Halogen Free — FLAT PAC™												
.072	.072	43	65	0.25 ±10%	513-1596-1-ND	1.60	1.46	1.08	513-1596-2-ND	950	641.25	FP0705R1-R07-R
.105	.105	43	44	0.25 ±10%	513-1597-1-ND	1.60	1.46	1.08	513-1597-2-ND	950	641.25	FP0705R1-R10-R
.120	.120	43	37	0.25 ±10%	513-1598-1-ND	1.60	1.46	1.08	513-1598-2-ND	950	641.25	FP0705R1-R12-R
.150	.150	43	30	0.25 ±10%	513-1599-1-ND	1.60	1.46	1.08	513-1599-2-ND	950	641.25	FP0705R1-R15-R
.180	.180	43	25	0.25 ±10%	513-1600-1-ND	1.60	1.46	1.08	513-1600-2-ND	950	641.25	FP0705R1-R18-R
.220	.220	43	20	0.25 ±10%	513-1601-1-ND	1.60	1.46	1.08	513-1601-2-ND	950	641.25	FP0705R1-R22-R
FP0705R2 Series, Halogen Free — FLAT PAC™												
.072	.072	38	65	0.32 ±9.4%	513-1602-1-ND	1.60	1.46	1.08	513-1602-2-ND	950	641.25	FP0705R2-R07-R
.105	.105	38	44	0.32 ±9.4%	513-1603-1-ND	1.60	1.46	1.08	513-1603-2-ND	950	641.25	FP0705R2-R10-R
.120	.120	38	37	0.32 ±9.4%	513-1604-1-ND	1.60	1.46	1.08	513-1604-2-ND	950	641.25	FP0705R2-R12-R
.150	.150	38	30	0.32 ±9.4%	513-1605-1-ND	1.60	1.46	1.08	513-1605-2-ND	950	641.25	FP0705R2-R15-R
.180	.180	38	25	0.32 ±9.4%	513-1606-1-ND	1.60	1.46	1.08	513-1606-2-ND	950	641.25	FP0705R2-R18-R
.220	.220	38	20	0.32 ±9.4%	513-1607-1-ND	1.60	1.46	1.08	513-1607-2-ND	950	641.25	FP0705R2-R22-R
FP0705R3 Series, Halogen Free — FLAT PAC™												
.072	.072	32	65	0.46 ±6.5%	513-1608-1-ND	1.60	1.46	1.08	513-1608-2-ND	950	641.25	FP0705R3-R07-R
.105	.105	32	44	0.46 ±6.5%	513-1609-1-ND	1.60	1.46	1.08	513-1609-2-ND	950	641.25	FP0705R3-R10-R
.120	.120	32	37	0.46 ±6.5%	513-1610-1-ND	1.60	1.46	1.08	513-1610-2-ND	950	641.25	FP0705R3-R12-R
.150	.150	32	30	0.46 ±6.5%	513-1611-1-ND	1.60	1.46	1.08	513-1611-2-ND	950	641.25	FP0705R3-R15-R
.180	.180	32	25	0.46 ±6.5%	513-1612-1-ND	1.60	1.46	1.08	513-1612-2-ND	950	641.25	FP0705R3-R18-R
.220	.220	32	20	0.46 ±6.5%	513-1613-1-ND	1.60	1.46	1.08	513-1613-2-ND	950	641.25	FP0705R3-R22-R
FP0708 Series, Halogen Free — FLAT PAC™												
.072	.072	44	90	0.35 ±8.6%	513-1614-1-ND	1.70	1.55	1.16	513-1614-2-ND	640	460.80	FP0708R1-R07-R
.09	.09	44	75	0.35 ±8.6%	513-1615-1-ND	1.70	1.55	1.16	513-1615-2-ND	640	460.80	FP0708R1-R09-R
.105	.105	44	68	0.35 ±8.6%	513-1616-1-ND	1.70	1.55	1.16	513-1616-2-ND	640	460.80	FP0708R1-R10-R
.120	.120	44	59	0.35 ±8.6%	513-1617-1-ND	1.70	1.55	1.16	513-1617-2-ND	640	460.80	FP0708R1-R12-R
.150	.150	44	47	0.35 ±8.6%	513-1618-1-ND	1.70	1.55	1.16	513-1618-2-ND	640	460.80	FP0708R1-R15-R
.190	.190	44	37	0.35 ±8.6%	513-1619-1-ND	1.70	1.55	1.16	513-1619-2-ND	640	460.80	FP0708R1-R19-R
FP0805 Series, Halogen Free — FLAT PAC™												
.032	.032	65	110	0.17 ±17%	513-1590-1-ND	1.70	1.55	1.16	513-1590-2-ND	950	684.00	FP0805R1-R03-R
.058	.058	65	83	0.17 ±17%	513-1591-1-ND	1.70	1.55	1.16	513-1591-2-ND	950	684.00	FP0805R1-R06-R
.072	.072	65	67	0.17 ±17%	513-1592-1-ND	1.70	1.55	1.16	513-1592-2-ND	950	684.00	FP0805R1-R07-R
.100	.100	65	50	0.17 ±17%	513-1593-1-ND	1.70	1.55	1.16	513-1593-2-ND	950	684.00	FP0805R1-R10-R
.200	.200	65	20	0.17 ±17%	513-1594-1-ND	1.70	1.55	1.16	513-1594-2-ND	950	684.00	FP0805R1-R20-R
FP0807 Series, Halogen Free — FLAT PAC™												
.12	.120 ±10%	49	66	0.50 ±6%	513-1626-1-ND	1.70	1.55	1.16	513-1626-2-ND	600	432.00	FP0807R1-R12-R
.22	.220 ±10%	49	35	0.50 ±6%	513-1627-1-ND	1.70	1.55	1.16	513-1627-2-ND	600	432.00	FP0807R1-R22-R
FP1005R1 Series, Halogen Free — FLAT PAC™												
.085	.085	53	90	0.39 ±7.7%	513-1565-1-ND	1.74	1.58	1.18	513-1565-2-ND	950	698.25	FP1005R1-R08-R
.100	.100	53	73	0.39 ±7.7%	513-1566-1-ND	1.74	1.58	1.18	513-1566-2-ND	950	698.25	FP1005R1-R10-R
.120	.120	53	60	0.39 ±7.7%	513-1567-1-ND	1.74	1.58	1.18	513-1567-2-ND	950	698.25	FP1005R1-R12-R
.150	.150	53	47	0.39 ±7.7%	513-1568-1-ND	1.74	1.58	1.18	513-1568-2-ND	950	698.25	FP1005R1-R15-R
.220	.220	53	33	0.39 ±7.7%	513-1569-1-ND	1.74	1.58	1.18	513-1569-2-ND	950	698.25	FP1005R1-R22-R
FP1005R2 Series, Halogen Free — FLAT PAC™												
.085	.085	50	90	0.47 ±6.7%	513-1570-1-ND	1.74	1.58	1.18	513-1570-2-ND	950	698.25	FP1005R2-R08-R
.100	.100	50	73	0.47 ±6.7%	513-1571-1-ND	1.74	1.58	1.18	513-1571-2-ND	950	698.25	FP1005R2-R10-R
.120	.120	50	60	0.47 ±6.7%	513-1572-1-ND	1.74	1.58	1.18	513-1572-2-ND	950	698.25	FP1005R2-R12-R
.150	.150	50	47	0.47 ±6.7%	513-1573-1-ND	1.74	1.58	1.18	513-1573-2-ND	950	698.25	FP1005R2-R15-R
.220	.220	50	33	0.47 ±6.7%	513-1574-1-ND	1.74	1.58	1.18	513-1574-2-ND	950	698.25	FP1005R2-R22-R
FP1005R3 Series, Halogen Free — FLAT PAC™												
.085	.085	45	90	0.55 ±5.4%	513-1575-1-ND	1.74	1.58	1.18	513-1575-2-ND	950	698.25	FP1005R3-R08-R
.100	.100	45	73	0.55 ±5.4%	513-1576-1-ND	1.74	1.58	1.18	513-1576-2-ND	950	698.25	FP1005R3-R10-R
.120	.120	45	60	0.55 ±5.4%	513-1577-1-ND	1.74	1.58	1.18	513-1577-2-ND	950	698.25	FP1005R3-R12-R
.150	.150	45	47	0.55 ±5.4%	513-1578-1-ND	1.74	1.58	1.18	513-1578-2-ND	950	698.25	FP1005R3-R15-R
.220	.220	45	33	0.55 ±5.4%	513-1579-1-ND	1.74	1.58	1.18	513-1579-2-ND	950	698.25	FP1005R3-R22-R
FP1006R1 Series, Halogen Free — FLAT PAC™												
.085	.085	53	100	0.27 ±12%	513-1580-1-ND	1.74	1.58	1.18	513-1580-2-ND	850	624.75	FP1006R1-R08-R
.100	.100	53	85	0.27 ±12%	513-1581-1-ND	1.74	1.58	1.18	513-1581-2-ND	850	624.75	FP1006R1-R10-R
.120	.120	53	71	0.27 ±12%	513-1582-1-ND	1.74	1.58	1.18	513-1582-2-ND	850	624.75	FP1006R1-R12-R
.160	.160	53	55	0.27 ±12%	513-1583-1-ND	1.74	1.58	1.18	513-1583-2-ND	850	624.75	FP1006R1-R16-R
.220	.220	53	38	0.27 ±12%	513-1584-1-ND	1.74	1.58	1.18	513-1584-2-ND	850	624.75	FP1006R1-R22-R
FP1006R2 Series, Halogen Free — FLAT PAC™												
.085	.085	45	100	0.36 ±8.6%	513-1585-1-ND	1.74	1.58	1.18	513-1585-2-ND	850	624.75	FP1006R2-R08-R
.100	.100	45	85	0.36 ±8.6%	513-1586-1-ND	1.74	1.58	1.18	513-1586-2-ND	850	624.75	FP1006R2-R10-R
.120	.120	45	71	0.36 ±8.6%	513-1587-1-ND	1.74	1.58	1.18	513-1587-2-ND	850	624.75	FP1006R2-R12-R
.160	.160	45	55	0.36 ±8.6%	513-1588-1-ND	1.74	1.58	1.18	513-1588-2-ND	850	624.75	FP1006R2-R16-R
.220	.220	45	38	0.36 ±8.6%	513-1589-1-ND	1.74	1.58	1.18	513-1589-2-ND	850	624.75	FP1006R2-R22-R
FP1007 Series, Halogen Free — FLAT PAC™												
.12	.120 ±10%	51	81	0.48 ±8%	513-1631-1-ND	1.74	1.58	1.18	513-1631-2-ND	750	551.25	FP1007R2-R12-R
.15	.150 ±10%	61	76	0.29 ±6%	513-1648-1-ND	1.74	1.58	1.18	513-1648-2-ND	650	477.75	FP1007R3-R15-R
.17	.170 ±10%	60	58	0.29 ±10%	513-1628-1-ND	1.74	1.58	1.18	513-1628-2-ND	700	514.50	FP1007R1-R17-R
.17	.170 ±10%	61	66	0.29 ±6%	513-1684-1-ND ***NEW!***	1.74	1.58	1.18	513-1684-2-ND ***NEW!***	650	477.75	FP1007R3-R17-R
.22	.215 ±10%	60	50	0.29 ±10%	513-1629-1-ND	1.74	1.58	1.18	513-1629-2-ND	700	514.50	FP1007R1-R22-R
.22	.215 ±10%	51	50	0.48 ±8%	513-1632-1-ND	1.74	1.58	1.18	513-1632-2-ND	750	551.25	FP1007R2-R22-R
.22	.215 ±10%	61	50	0.29 ±6%	513-1649-1-ND	1.74	1.58	1.18	513-1649-2-ND	650	477.75	FP1007R3-R22-R
.30	.300 ±10%	60	32	0.29 ±10%	513-1630-1-ND	1.74	1.58	1.18	513-1630-2-ND	700	514.50	FP1007R1-R30-R
.30	.300 ±10%	51	32	0.48 ±8%	513-1633-1-ND	1.74	1.58	1.18	513-1633-2-ND	750	551.25	FP1007R2-R30-R
.30	.300 ±10%	61	35	0.29 ±6%	513-1650-1-ND	1.74	1.58	1.18	513-1650-2-ND	650	477.75	FP1007R3-R30-R

Note (1): OCL; Open Circuit Inductance at no load, see data sheet for test parameters **Note (2):** I_{RMS}; Ampere rating for normal operation without core related losses
Note (3): I_{SAT}; Saturation Ampere rating, see data sheet for percentage rolloff

(Continued)

Shielded Low Profile High Current Power Inductors (SMD) *(Cont.)*

Inductance (µH)	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (mΩ)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
						1	10	100		Qty.	Pricing	
FP1105 Series, Halogen Free — FLAT PAC™												
.100	.100	46	81	0.35 ±8.6%	513-1620-1-ND	1.74	1.58	1.18	513-1620-2-ND	900	661.50	FP1105R1-R10-R
.120	.120	46	66	0.35 ±8.6%	513-1621-1-ND	1.74	1.58	1.18	513-1621-2-ND	900	661.50	FP1105R1-R12-R
.150	.150	46	54	0.35 ±8.6%	513-1622-1-ND	1.74	1.58	1.18	513-1622-2-ND	900	661.50	FP1105R1-R15-R
.192	.192	46	42	0.35 ±8.6%	513-1623-1-ND	1.74	1.58	1.18	513-1623-2-ND	900	661.50	FP1105R1-R20-R
.226	.226	46	39	0.35 ±8.6%	513-1624-1-ND	1.74	1.58	1.18	513-1624-2-ND	900	661.50	FP1105R1-R22-R
FP1107 Series, Halogen Free — FLAT PAC™												
.15	.150 ±10%	42	70	0.47 ±6.4%	513-1637-1-ND	1.74	1.58	1.18	513-1637-2-ND	640	470.40	FP1107R2-R15-R
.23	.230 ±10%	55	45	0.29 ±10%	513-1634-1-ND	1.74	1.58	1.18	513-1634-2-ND	640	470.40	FP1107R1-R23-R
.30	.300 ±10%	42	35	0.47 ±6.4%	513-1638-1-ND	1.74	1.58	1.18	513-1638-2-ND	640	470.40	FP1107R2-R30-R
.30	.300 ±10%	55	35	0.29 ±10%	513-1635-1-ND	1.74	1.58	1.18	513-1635-2-ND	640	470.40	FP1107R1-R30-R
.40	.400 ±10%	42	25	0.47 ±6.4%	513-1639-1-ND	1.74	1.58	1.18	513-1639-2-ND	640	470.40	FP1107R2-R40-R
.51	.510 ±10%	55	18	0.29 ±10%	513-1636-1-ND	1.74	1.58	1.18	513-1636-2-ND	640	470.40	FP1107R1-R51-R
FP1109 Series, Halogen Free — FLAT PAC™												
.27	.270 ±10%	35	51	.42 ±10%	513-1640-1-ND	1.85	1.68	1.25	513-1640-2-ND	350	273.00	FP1109-R27-R
.33	.311 ±10%	35	44	.42 ±10%	513-1641-1-ND	1.85	1.68	1.25	513-1641-2-ND	350	273.00	FP1109-R33-R
1.0	.950 ±10%	35	11.5	.42 ±10%	513-1642-1-ND	1.85	1.68	1.25	513-1642-2-ND	350	273.00	FP1109-1R0-R
FP1308 Series — FLAT PAC™												
.210	.210	68	72	0.24 Max.	513-1441-1-ND	2.31	2.10	1.56	513-1441-2-ND	400	390.00	FP1308-R21-R
.320	.320	68	45	0.24 Max.	513-1443-1-ND	2.31	2.10	1.56	513-1443-2-ND	400	390.00	FP1308-R32-R
.440	.440	68	32	0.24 Max.	513-1444-1-ND	2.31	2.10	1.56	513-1444-2-ND	400	390.00	FP1308-R44-R
FP3 Series — FLAT PAC™												
.470	.440	10.9	11.6	3.67 Max.	513-1553-1-ND	2.24	2.04	1.52	513-1553-2-ND	1,700	945.00/M	FP3-R47-R
.680	.720	9.72	9.0	4.63 Max.	513-1554-1-ND	2.24	2.04	1.52	—	—	—	FP3-R68-R
1.0	1.10	6.26	9.5	11.2 Max.	513-1149-1-ND	2.24	2.04	1.52	513-1149-2-ND	1,700	945.00/M	FP3-1R0-R
2.0	2.00	5.40	6.9	15.0 Max.	513-1151-1-ND	2.24	2.04	1.52	513-1151-2-ND	1,700	945.00/M	FP3-2R0-R
3.3	3.20	3.63	5.5	30.0 Max.	513-1152-1-ND	1.88	1.71	1.28	513-1152-2-ND	1,700	795.00/M	FP3-3R3-R
4.7	4.70	3.23	4.2	40.0 Max.	513-1150-1-ND	1.88	1.71	1.28	513-1150-2-ND	1,700	795.00/M	FP3-4R7-R
8.2	8.50	2.91	2.6	74.0 Max.	513-1552-1-ND	1.88	1.71	1.28	513-1552-2-ND	1,700	795.00/M	FP3-8R2-R
15.0	14.9	2.22	2.0	127 Max.	513-1551-1-ND	1.88	1.71	1.28	513-1551-2-ND	1,700	795.00/M	FP3-150-R
HC7 Series — High Current 7												
1.0	1.05	20.30	19.6	2.1 Max.	513-1164-1-ND	3.32	3.02	2.25	513-1164-2-ND	610	855.83	HC7-1R0-R
2.2	2.58	13.00	12.5	5.2 Max.	513-1166-1-ND	3.32	3.02	2.25	513-1166-2-ND	610	855.83	HC7-2R2-R
4.7	4.81	9.80	9.2	9.0 Max.	513-1165-1-ND	3.32	3.02	2.25	513-1165-2-ND	610	855.83	HC7-4R7-R
HC8LP Series — High Current 8LP (Low Profile)												
33.0	32.10	2.3	2.1	224 Max.	513-1341-1-ND	3.32	3.02	2.25	513-1341-2-ND	800	1224.00	HC8LP-330-R
HC9 Series — High Current 9												
0.20	0.218	46.7	65	0.50 Max.	513-1356-1-ND	2.34	2.13	1.59	—	—	—	HC9-R20-R
0.47	0.544	33.7	40	0.88 Max.	513-1357-1-ND	2.34	2.13	1.59	513-1357-2-ND	450	445.50	HC9-R47-R
1.0	1.04	23.7	28	1.87 Max.	513-1347-1-ND	2.34	2.13	1.59	513-1347-2-ND	450	445.50	HC9-1R0-R
1.5	1.70	21.0	22	2.27 Max.	513-1348-1-ND	2.34	2.13	1.59	513-1348-2-ND	450	445.50	HC9-1R5-R
2.2	2.53	17.2	18	3.37 Max.	513-1350-1-ND	2.34	2.13	1.59	513-1350-2-ND	450	445.50	HC9-2R2-R
3.3	3.52	14.3	15	4.87 Max.	513-1352-1-ND	2.34	2.13	1.59	513-1352-2-ND	450	445.50	HC9-3R3-R
4.3	4.67	13.0	13.2	5.90 Max.	513-1354-1-ND	2.34	2.13	1.59	513-1354-2-ND	450	540.00	HC9-4R3-R
6.8	7.45	10.3	11.4	9.40 Max.	513-1355-1-ND	2.34	2.13	1.59	513-1355-2-ND	450	445.50	HC9-6R8-R
10.0	10.9	8.50	8.6	14.0 Max.	513-1346-1-ND	2.34	2.13	1.59	513-1346-2-ND	450	445.50	HC9-100-R
22.0	22.4	6.30	6.0	25.7 Max.	513-1349-1-ND	2.34	2.13	1.59	513-1349-2-ND	450	445.50	HC9-220-R
33.0	34.5	4.42	4.8	48.8 Max.	513-1351-1-ND	2.34	2.13	1.59	513-1351-2-ND	450	445.50	HC9-330-R
47.0	49.2	3.65	3.9	72.3 Max.	513-1353-1-ND	2.34	2.13	1.59	513-1353-2-ND	450	445.50	HC9-470-R
HCP0704 Series, Halogen Free												
1.0	1.00 ±25%	12	17	6.2 ±10%	513-1643-1-ND	2.27	2.07	1.54	513-1643-2-ND	1,000	960.00	HCP0704-1R0-R
2.3	2.30 ±25%	7.5	11.5	16.5 ±10%	513-1644-1-ND	2.27	2.07	1.54	513-1644-2-ND	1,000	960.00	HCP0704-2R3-R
4.7	4.70 ±25%	5.0	8.0	29.5 ±10%	513-1645-1-ND	2.27	2.07	1.54	513-1645-2-ND	1,000	960.00	HCP0704-4R7-R
HCP0805 Series, Halogen Free												
1.0	1.00	14.5	22	5.8 ±6%	513-1646-1-ND	2.38	2.17	1.61	513-1646-2-ND	700	703.50	HCP0805-1R0-R
2.2	2.20	10	14	11.2 ±6%	513-1647-1-ND	2.38	2.17	1.61	513-1647-2-ND	700	703.50	HCP0805-2R2-R
HCP1104 Series — High Current, Pressed Iron Core (1104 Pkg)												
0.36	0.36	30	40	1.2 Max.	513-1372-1-ND	3.15	2.87	2.13	513-1372-2-ND	950	1264.45	HCP1104-R36-R
0.56	0.56	25	32	1.8 Max.	513-1374-1-ND	3.15	2.87	2.13	—	—	—	HCP1104-R56-R
0.90	0.90	22	25	2.5 Max.	513-1375-1-ND	3.15	2.87	2.13	—	—	—	HCP1104-R90-R
HCP1305 Series — High Current, Pressed Iron Core (1305 Pkg)												
0.47	0.47	38	65	1.3 Max.	513-1379-1-ND	3.07	2.80	2.08	—	—	—	HCP1305-R47-R
0.56	0.56	36	55	1.5 Max.	513-1380-1-ND	4.93	4.49	3.34	—	—	—	HCP1305-R56-R
1.0	1.0	29	50	2.5 Max.	513-1376-1-ND	3.07	2.80	2.08	—	—	—	HCP1305-1R0-R
1.5	1.5	23	48	4.1 Max.	513-1377-1-ND	3.07	2.80	2.08	—	—	—	HCP1305-1R5-R

Note (1): OCL; Open Circuit Inductance at no load, see data sheet for test parameters **Note (2):** I_{RMS}; Ampere rating for normal operation without core related losses **Note (3):** I_{SAT}; Saturation Ampere rating, see data sheet for percentage rolloff

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High Current Power Inductors (SMD) —

HCF1305 Series

Specifications:

- **Frequency Range:** 100kHz ~ 1MHz
- **Operating Temperature Range:** -40°C ~ 125°C
- **Solder Reflow Temperature:** 260°C maximum for 10 seconds

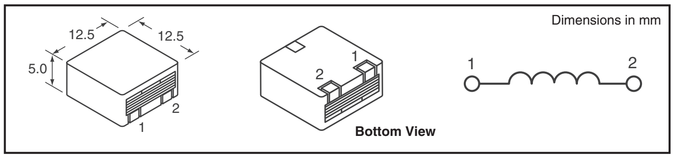

Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR Typical (mΩ)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 600	Coiltronics Part No.
						1	10	100			
1.00	1.00	22.0	24.0	1.58	513-1510-1-ND	2.71	2.47	1.84	513-1510-2-ND	687.60	HCF1305-1R0-R
1.80	1.80	16.3	18.0	2.58	513-1512-1-ND	2.71	2.47	1.84	513-1512-2-ND	687.60	HCF1305-1R8-R
2.20	2.20	16.3	15.0	2.58	513-1513-1-ND	2.71	2.47	1.84	513-1513-2-ND	687.60	HCF1305-2R2-R
3.30	3.30	13.2	12.5	4.08	513-1515-1-ND	2.71	2.47	1.84	513-1515-2-ND	687.60	HCF1305-3R3-R
4.00	4.00	10.9	12.0	6.0	513-1516-1-ND	2.71	2.47	1.84	513-1516-2-ND	687.60	HCF1305-4R0-R
4.70	4.70	10.9	10.4	6.0	513-1517-1-ND	2.71	2.47	1.84	513-1517-2-ND	687.60	HCF1305-4R7-R

Note (1): OCL: Open Circuit Inductance test parameters: 100kHz, 0.1Vrms, 0.0Adc. OCL @ -40°C can be lower than OCL @20°C by 15% max. **Note (2):** Irms: DC current for an approximate DT of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3)**: Isat1: Amperes Peak for approximately 30% rolloff (@25°C).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Current Power Inductors (Thru Hole) — HCPT1309 Series

Specifications: • **Frequency Range:** up to 1MHz • **Operating Temperature Range:** -40°C ~ 105°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

OCL(1) nominal +/- 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Peak 30% Roll-off @ 20°C	DCR (mΩ) nom @ 20°C	Dimensions (mm) B	C	D	Digi-Key Part No.	Price Each 1	10	100	Coiltronics Part No.
0.96	19.4	30.9	1.90	12.0	1.29	1.60	513-1519-ND	2.60	2.37	1.76	HCPT1309-1R0-R
1.59	13.7	24.1	3.82	11.8	1.15	1.40	513-1520-ND	3.80	3.46	2.57	HCPT1309-1R5-R
2.27	12.5	19.7	4.10	11.8	1.15	1.40	513-1521-ND	2.60	2.37	1.76	HCPT1309-2R2-R

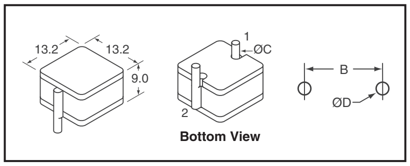

Note: (1) OCL: Open Circuit Inductance test parameters: 100kHz, 0.1Vrms, 0.0Adc. **Note: (2)** IRMS DC current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 105°C under worst case operating conditions. **Note: (3)** ISAT Amperes Peak for approximately 30% roll-off (@25°C) See data sheet for additional roll-off ratings.

Foil Technology, High Current Power Inductors (SMD)

Features: • Designed for high current, high frequency, low voltage applications where low DCR and high efficiency are needed.
Specifications: • **Operating Temperature Range:** -40°C ~ 125°C (HC1 Series) • **Operating Ambient Temperature Range:** -40°C ~ 85°C (HC2LP Series) • **Solder Reflow Temperature:** 260°C maximum for 10 seconds maximum • **Frequency Range:** 1kHz ~ 1MHz

Series	Dimensions (mm) A	B	C
HC1	13	13	10
HC2LP	19.2	19.2	11.18

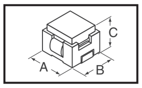

Inductance (µH) HC1 Series	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (mΩ) Max. @ 20°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
					HC1 Series							
0.22	0.218	51.42	40.5	0.36	513-1160-1-ND	2.80	2.55	1.90	513-1160-2-ND	250	296.25	HC1-R22-R
1.0	1.12	28.01	25.4	1.23	513-1154-1-ND	2.80	2.55	1.90	513-1154-2-ND	250	296.25	HC1-1R0-R
1.7	1.66	22.3	22.2	2.0	513-1155-1-ND	2.80	2.55	1.90	513-1155-2-ND	250	296.25	HC1-1R7-R
2.3	2.29	22.3	16.7	2.0	513-1156-1-ND	2.80	2.55	1.90	513-1156-2-ND	250	296.25	HC1-2R3-R
3.6	3.59	16.76	13.4	3.5	513-1157-1-ND	2.80	2.55	1.90	513-1157-2-ND	250	296.25	HC1-3R6-R
5.1	5.15	12.79	11.2	5.7	513-1158-1-ND	2.80	2.55	1.90	513-1158-2-ND	250	296.25	HC1-5R1-R
7.8	7.85	12.79	6.7	5.7	513-1159-1-ND	2.80	2.55	1.90	513-1159-2-ND	250	296.25	HC1-7R8-R
10	10.5	12.79	5.3	5.7	513-1153-1-ND	2.80	2.55	1.90	513-1153-2-ND	250	296.25	HC1-100-R
					HC2LP Series							
0.68	0.63	52.9	50.00	0.6	513-1691-1-ND ***NEW!***	4.26	3.87	—	513-1691-2-ND ***NEW!***	130	234.00	HC2LP-R68-R
1.0	1.15	33.0	42.50	1.3	513-1555-1-ND	4.26	3.87	—	513-1555-2-ND	130	234.00	HC2LP-1R0-R
2.2	2.00	24.3	31.90	2.3	513-1161-1-ND	4.26	3.87	—	513-1161-2-ND	130	234.00	HC2LP-2R2-R
4.7	4.55	17.0	21.25	4.6	513-1162-1-ND	4.26	3.87	—	513-1162-2-ND	130	234.00	HC2LP-4R7-R
6.0	6.00	17.0	16.50	4.6	513-1163-1-ND	4.26	3.87	—	513-1163-2-ND	130	234.00	HC2LP-6R0-R

Note (1): Open Circuit Inductance Test Parameters: 300kHz, .25Vrms, 0.0 Adc and Isat. **Note (2):** IRMS Amperes for approximately ΔT of 40°C. DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3):** ISAT Amperes Peak for approximately 30% roll-off at 20°C.

Power Over Ethernet Transformers (SMD)

Features: Versatile design allows multiple output variations. For use in IEEE 802.3af compliant applications, UPS, VoiP Phone, Wireless LAN Access points, Bluetooth® Access points.

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum, 1500VAC isolation primary to secondary • **Open Circuit Inductance Test Parameters:** 100kHz, 0.1Vrms, 0.0Adc • **Leakage Inductance:** 200kHz, 0.01Vrms, 0.0Adc

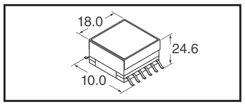

Wattage	Inductance (µH)	Output Ratings (Number of Outputs) x (V @ A)	Leakage Inductance Typ. (µH)	Primary Current Peak (Adc)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Pricing 140	Coiltronics Part No.
					Flyback Topology					
13	100	(3) x 5.0V @ 0.90A	1.20	1.60	513-1105-1-ND	7.28	6.62	513-1105-2-ND	430.50	POE13W3X5.0-R
13	100	(2) x 12.0V @ 0.60A	1.00	1.70	513-1103-1-ND	7.28	6.62	513-1103-2-ND	430.50	POE13W2X12-R
13	100	V1:5.0V @ 1.6A, 2:3.3V @ 1.6A	1.20	1.70	513-1106-1-ND	7.28	6.62	513-1106-2-ND	430.50	POE13W2VERS-R

Push-Pull Transformer 12-Pin (SMD)

Inductance (µH)	Input Voltage (VDC)	Output Voltage (VDC)	Amperes (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 300	Coiltronics Part No.
1254	5	12	0.250	513-1625-1-ND	6.43	5.84	4.35	513-1625-2-ND	814.50	CTX02-13665

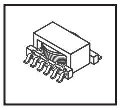

VERSA-PAC® Inductors/ Transformers (SMD)

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Isolation Voltage:** 500VAC • **Frequency Range:** 1MHz • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

Series	Dimensions (mm) A	B	C
VP1, VPH1	12.9	13.0	6.2
VP2, VPH2	16.3	16.8	7.8
VP3	17.1	22.3	8.4
VP4, VPH4	18.0	24.6	10.0
VP5	21.0	28.5	10.8

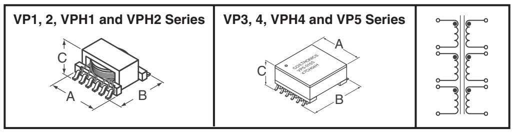

Inductance(1) (BASE) ±20% (µH)	I_{SAT}(2,3) (BASE) Typ. (Amperes)	I_{RMS}(2,4) (BASE) Typ. (Amperes)	Volt-µSec(5) (BASE) Max. (µVs)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
3.4	4.59	2.08	65.6	513-1540-ND§	8.91	8.10	6.03	—	—	—	VP5-0053-R
3.8	1.73	1.47	27.7	513-1695-1-ND ***NEW!***	7.42	6.74	5.02	513-1695-2-ND ***NEW!***	200	627.00	VP3-0047-R
4.5	1.46	1.47	27.7	513-1696-1-ND ***NEW!***	7.42	6.74	5.02	513-1696-2-ND ***NEW!***	200	627.00	VP3-0055-R
4.9	1.06	0.85	21.8	513-1671-1-ND ***NEW!***	7.03	6.39	4.76	513-1671-2-ND ***NEW!***	600	1782.00	VP1-0076-R
5.3	2.95	2.08	65.6	513-1681-ND§ ***NEW!***	8.91	8.10	6.03	—	—	—	VP5-0083-R
5.7	1.41	1.26	33.7	513-1537-1-ND	7.21	6.55	4.88	513-1537-2-ND	300	913.50	VP2-0116-R
6.1	1.75	1.70	44.7	513-1539-ND§	8.20	7.45	5.55	—	—	—	VP4-0075-R
9.9	1.60	2.08	65.6	513-1193-ND§	8.91	8.10	6.03	—	—	—	VP5-0155-R
10.1	1.52	1.41	64.6	513-1697-ND§ ***NEW!***	9.94	9.03	6.72	—	—	—	VPH4-0060-R
10.6	0.76	1.26	33.7	513-1192-1-ND	7.21	6.55	4.88	513-1192-2-ND	300	913.50	VP2-0216-R
10.9	0.72	0.55	32.9	513-1559-1-ND	7.03	6.39	4.76	513-1559-2-ND	600	1782.00	VPH1-0076-R
11.2	0.59	1.47	27.7	513-1538-1-ND	7.42	6.74	5.02	513-1538-2-ND	200	627.00	VP3-0138-R
11.3	0.95	1.70	44.7	513-1558-ND§	8.20	7.45	5.55	—	—	—	VP4-0140-R
11.6	0.99	0.95	48.3	513-1672-1-ND ***NEW!***	7.21	6.55	4.88	513-1672-2-ND ***NEW!***	300	913.50	VPH2-0116-R
12.2	0.43	0.85	21.8	513-1191-1-ND	7.03	6.39	4.76	513-1191-2-ND	600	1782.00	VP1-0190-R
12.7	1.21	1.41	64.6	513-1541-ND§	9.94	9.03	6.72	—	—	—	VPH4-0075-R
21.6	0.53	0.95	48.3	513-1560-1-ND	7.21	6.55	4.88	513-1560-2-ND	300	913.50	VPH2-0216-R
27.4	0.29	0.55	32.9	513-1194-1-ND	7.38	6.71	5.00	513-1194-2-ND	600	1782.00	VPH1-0190-R
87.0	0.15	1.70	44.7	513-1680-ND§ ***NEW!***	8.20	7.45	5.55	—	—	—	VP4-0860-R
159.65	0.11	1.41	64.6	513-1542-ND§†	9.94	9.03	6.72	—	—	—	VPH4-0860-R

Note (1): L_{BASE} = Nominal Inductance of a single winding. **Note (2):** I_{BASE} = is the lesser of $I_{SAT(BASE)}$ and $I_{RMS(BASE)}$ **Note (3):** Peak current that will result in 30% saturation of the core. This current value assumes that equal current flows in all six windings. Saturation current per winding may be calculated as follows: ISAT = 6 x $I_{SAT(BASE)}$/Number of windings driven. **Note (4):** IRMS current that results in a surface temperature of approximately 40°C above ambient. The 40°C rise occurs when the specified current flows through each of the six windings. **Note (5):** For multiple windings in series, the volt-µsec $_{TOTAL}$ (µVs) capability varies as the number of windings in series (S): Volt-µsec $_{TOTAL}$ = S x Volt-µsec$_{(BASE)}$. For multiple windings in parallel, the Volt-µsecond $_{TOTAL}$ (µVs) capability is as shown in the table above.

† These devices are designed for feed-forward applications, where load current dominates magnetizing current § Bulk

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Murata Power Solutions

Shielded Surface Mount Power Inductors

The 2900 and 4600 Series are bobbin-wound, shielded inductors suitable for power-line filtering found in consumer electronics such as desktop computers, LED applications and GPS systems, as well as a vast range of industrial and telecom applications including network hubs, bridges and routers, and high frequency wireless communication devices. The 4500 Series is a lower profile version of the 4600 Series.

Fig. 1

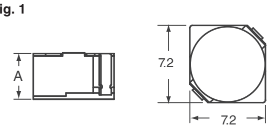

Fig. 2

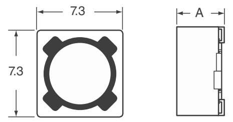

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (mΩ)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	Tape and Reel† Pricing 1,000	Murata Power Solutions Part No.
Fig. 1 — 2900 Series									
1.0	6.0	16	4.0	811-1133-1-ND	1.05	.99	.92	494.00	29102C
3.3	4.0	28	4.0	811-1137-1-ND	1.05	.99	.92	—	29332C
4.7	2.3	30	4.0	811-1140-1-ND	1.05	.99	.92	494.00	29472C
10	1.8	45	4.0	811-1134-1-ND	1.05	.99	.92	494.00	29103C
33	1.0	120	4.0	811-1138-1-ND	1.05	.99	.92	494.00	29333C
47	0.85	170	4.0	811-1141-1-ND	1.05	.99	.92	494.00	29473C
100	0.53	360	4.0	811-1135-1-ND	1.05	.99	.92	494.00	29104C
330	0.32	1000	4.0	811-1139-1-ND	1.05	.99	.92	494.00	29334C
470	0.26	1600	4.0	811-1142-1-ND	1.05	.99	.92	494.00	29474C
1000	0.18	4100	4.0	811-1136-1-ND	1.05	.99	.92	494.00	29105C
Fig. 1 — 2900L Series									
1.0	4.6	13	3.15	811-1143-1-ND	1.05	.99	.92	494.00	29L102C
3.3	2.6	25	3.15	811-1147-1-ND	1.05	.99	.92	494.00	29L332C
4.7	2.2	31	3.15	811-1150-1-ND	1.05	.99	.92	494.00	29L472C
10	1.55	64	3.15	811-1144-1-ND	1.05	.99	.92	494.00	29L103C
33	0.82	174	3.15	811-1148-1-ND	1.05	.99	.92	494.00	29L333C
47	0.8	223	3.15	811-1151-1-ND	1.05	.99	.92	—	29L473C
100	0.48	456	3.15	811-1145-1-ND	1.05	.99	.92	494.00	29L104C
330	0.3	1670	3.15	811-1149-1-ND	1.05	.99	.92	494.00	29L334C
470	0.22	2410	3.15	811-1152-1-ND	1.05	.99	.92	494.00	29L474C
1000	0.14	6480	3.15	811-1146-1-ND	1.05	.99	.92	494.00	29L105C

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (mΩ)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	Tape and Reel† Pricing 1,000	Murata Power Solutions Part No.
Fig. 2 — 4500 Series									
0.28	8.0	9.0	3.55	811-1160-1-ND	.96	.91	.84	455.00	45281C
0.54	7.0	11	3.55	811-1164-1-ND	.96	.91	.84	455.00	45541C
1.0	6.0	14	3.55	811-1153-1-ND	.96	.91	.84	455.00	45102C
2.2	4.5	26	3.55	811-1157-1-ND	.96	.91	.84	455.00	45222C
3.3	3.7	34	3.55	811-1161-1-ND	.96	.91	.84	455.00	45332C
6.8	2.6	66	3.55	811-1165-1-ND	.91	.86	.80	429.00	45682C
10	2.2	82	3.55	811-1154-1-ND	.91	.86	.80	429.00	45103C
22	1.35	180	3.55	811-1158-1-ND	.91	.86	.80	429.00	45223C
33	1.25	250	3.55	811-1162-1-ND	.91	.86	.80	429.00	45333C
68	0.82	510	3.55	811-1166-1-ND	.91	.86	.80	429.00	45683C
100	0.7	710	3.55	811-1155-1-ND	.91	.86	.80	429.00	45104C
220	0.5	1550	3.55	811-1159-1-ND	.91	.86	.80	429.00	45224C
330	0.35	2540	3.55	811-1163-1-ND	.91	.86	.80	429.00	45334C
680	0.26	5000	3.55	811-1167-1-ND	.91	.86	.80	429.00	45684C
1000	0.23	6500	3.55	811-1156-1-ND	.91	.86	.80	429.00	45105C
Fig. 2 — 4600 Series									
0.28	8.7	8.0	4.55	811-1175-1-ND	1.02	.97	.89	481.00	46281C
0.54	7.7	10	4.55	811-1179-1-ND	1.02	.97	.89	481.00	46541C
1.0	6.8	13	4.55	811-1168-1-ND	1.02	.97	.89	481.00	46102C
2.2	5.0	21	4.55	811-1172-1-ND	1.02	.97	.89	481.00	46222C
3.3	4.3	29	4.55	811-1176-1-ND	1.02	.97	.89	481.00	46332C
6.8	3.1	52	4.55	811-1180-1-ND	.96	.91	.84	455.00	46682C
10	2.4	66	4.55	811-1169-1-ND	.96	.91	.84	455.00	46103C
22	1.8	120	4.55	811-1173-1-ND	.96	.91	.84	455.00	46223C
33	1.45	190	4.55	811-1177-1-ND	.96	.91	.84	455.00	46333C
68	1.05	360	4.55	811-1181-1-ND	.96	.91	.84	455.00	46683C
100	0.86	500	4.55	811-1170-1-ND	.96	.91	.84	455.00	46104C
220	0.57	1050	4.55	811-1174-1-ND	.96	.91	.84	455.00	46224C
330	0.46	1850	4.55	811-1178-1-ND	.96	.91	.84	455.00	46334C
680	0.32	3900	4.55	811-1182-1-ND	.96	.91	.84	455.00	46684C
1000	0.27	4900	4.55	811-1171-1-ND	.96	.91	.84	455.00	46105C

† For Tape and Reel part number, change 1-ND to 2-ND.

Axial and Radial Lead Inductors

The **1100R Series** is a general purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high density applications where a chip inductor will not cope with the power requirements.

The **1200LRS and 1200RS Series** of inductors is suitable for power line filtering in low to medium current applications such as switching power supply circuits. The integral ferrite shield makes these devices ideal for protecting circuits susceptible to EMI. The 1200LRS Series is for lower current. The 1200RS Series is for higher current.

The **1300R Series** is a general purpose range of inductors suitable for low to medium current applications such as power supply and other general purpose filtering designs.

The **1800 Series** inductors are particularly suited to use with a wide variety of switching regulators. Offering high current handling with a low mounting height, the devices are ideal where space is at a premium. The 1800R Series is a Radial Lead version of the 1800 Series, and features a small footprint.

The **2200R Series** is a general purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high density applications where a chip inductor will not cope with the power requirement.

Fig. 1

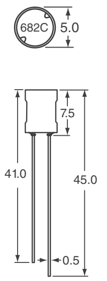

Fig. 2

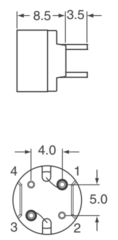

Fig. 3

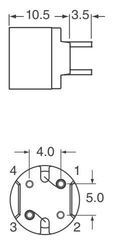

Fig. 4

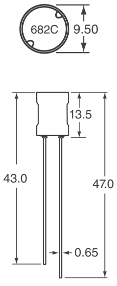

Fig. 5

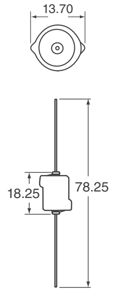

Fig. 6

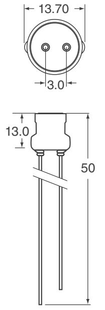

Fig. 7

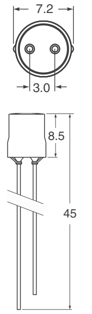

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Pricing 1	5	10	Murata Power Solutions Part No.
Fig. 1 — 1100R Series — Radial Lead							
1.0 ±20%	3.00	0.02	811-2018-ND	.31	1.49	2.93	11R102C
1.5 ±20%	2.40	0.03	811-2019-ND	.31	1.49	2.93	11R152C
2.2 ±20%	1.90	0.05	811-2020-ND	.31	1.49	2.93	11R222C
3.3 ±20%	1.50	0.07	811-2021-ND	.31	1.49	2.93	11R332C
4.7 ±20%	1.30	0.09	811-2022-ND	.31	1.49	2.93	11R472C
6.8 ±20%	1.10	0.10	811-2023-ND	.31	1.49	2.93	11R682C
10	0.95	0.14	811-2024-ND	.31	1.49	2.93	11R103C
15	0.80	0.19	811-2025-ND	.31	1.49	2.93	11R153C
22	0.65	0.27	811-2026-ND	.31	1.49	2.93	11R223C
33	0.55	0.42	811-2027-ND	.31	1.49	2.93	11R333C
47	0.50	0.54	811-2028-ND	.31	1.49	2.93	11R473C
68	0.40	0.85	811-2029-ND	.31	1.49	2.93	11R683C
100	0.35	1.10	811-2030-ND	.31	1.49	2.93	11R104C
150	0.30	1.65	811-2031-ND	.31	1.49	2.93	11R154C
220	0.24	2.40	811-2032-ND	.31	1.49	2.93	11R224C
330	0.19	3.60	811-2033-ND	.31	1.49	2.93	11R334C
470	0.14	6.40	811-2034-ND	.31	1.49	2.93	11R474C
Fig. 2 — 1200LRS Series — Through Hole Radial Lead Shielded							
6.8 ±20%	4.7	0.02	811-2091-ND	.71	3.47	6.83	12LRS682C
10 ±20%	3.4	0.05	811-2073-ND	.71	3.47	6.83	12LRS103C
15 ±20%	3.0	0.07	811-2077-ND	.71	3.47	6.83	12LRS153C
22 ±20%	2.6	0.09	811-2081-ND	.71	3.47	6.83	12LRS223C
33 ±20%	2.1	0.11	811-2085-ND	.71	3.47	6.83	12LRS333C
47 ±20%	1.7	0.14	811-2088-ND	.71	3.47	6.83	12LRS473C

(Continued)

Axial and Radial Lead Inductors *(Cont.)*

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Pricing 1	Pricing 5	Pricing 10	Murata Power Solutions Part No.
68	1.6	0.16	811-2092-ND	.71	3.47	6.83	12LRS683C
100	1.4	0.2	811-2074-ND	.71	3.47	6.83	12LRS104C
150	1.0	0.35	811-2078-ND	.71	3.47	6.83	12LRS154C
220	0.78	0.54	811-2082-ND	.71	3.47	6.83	12LRS224C
330	0.63	0.86	811-2086-ND	.71	3.47	6.83	12LRS334C
470	0.53	1.23	811-2089-ND	.71	3.47	6.83	12LRS474C
680	0.5	1.65	811-2093-ND	.71	3.47	6.83	12LRS684C
1.0mH	0.4	2.3	811-2075-ND	.71	3.47	6.83	12LRS105C
1.5mH	0.31	3.4	811-2079-ND	.71	3.47	6.83	12LRS155C
2.2mH	0.28	4.6	811-2083-ND	.71	3.47	6.83	12LRS225C
3.3mH	0.2	8.7	811-2087-ND	.71	3.47	6.83	12LRS335C
4.7mH	0.18	10.5	811-2090-ND	.71	3.47	6.83	12LRS475C
6.8mH	0.15	15.0	811-2094-ND	.71	3.47	6.83	12LRS685C
10mH	0.12	24.0	811-2076-ND	.71	3.47	6.83	12LRS106C
15mH	0.095	37.0	811-2080-ND	.71	3.47	6.83	12LRS156C
22mH	0.073	70.0	811-2084-ND	.71	3.47	6.83	12LRS226C
Fig. 3 — 1200RS Series — Through Hole Radial Lead Shielded							
10 ±20%	4.6	0.023	811-2095-ND	.85	4.13	8.13	12RS103C
15 ±20%	4.0	0.036	811-2098-ND	.85	4.13	8.13	12RS153C
22 ±20%	3.3	0.042	811-2100-ND	.85	4.13	8.13	12RS223C
33	2.7	0.057	811-2102-ND	.85	4.13	8.13	12RS333C
47	2.2	0.1	811-2104-ND	.85	4.13	8.13	12RS473C
68	1.8	0.15	811-2106-ND	.85	4.13	8.13	12RS683C
100	1.4	0.19	811-2096-ND	.85	4.13	8.13	12RS104C
150	1.25	0.23	811-2099-ND	.85	4.13	8.13	12RS154C
220	1.10	0.29	811-2101-ND	.85	4.13	8.13	12RS224C
330	0.85	0.51	811-2103-ND	.85	4.13	8.13	12RS334C
470	0.72	0.98	811-2105-ND	.85	4.13	8.13	12RS474C
680	0.55	1.2	811-2107-ND	.85	4.13	8.13	12RS684C
1mH	0.44	1.5	811-2097-ND	.85	4.13	8.13	12RS105C
Fig. 4 — 1300R Series — Radial Lead							
1.5 ±20%	6.3	0.008	811-2035-ND	.60	2.89	5.69	13R152C
2.2 ±20%	5.3	0.010	811-2036-ND	.60	2.89	5.69	13R222C
3.3 ±20%	4.8	0.013	811-2037-ND	.60	2.89	5.69	13R332C
4.7 ±20%	4.3	0.017	811-2038-ND	.60	2.89	5.69	13R472C
6.8 ±20%	3.5	0.023	811-2039-ND	.60	2.89	5.69	13R682C
10	3.0	0.031	811-2040-ND	.60	2.89	5.69	13R103C
15	2.5	0.042	811-2041-ND	.60	2.89	5.69	13R153C
22	2.0	0.070	811-2042-ND	.60	2.89	5.69	13R223C
33	1.8	0.092	811-2043-ND	.60	2.89	5.69	13R333C
47	1.5	0.110	811-2044-ND	.60	2.89	5.69	13R473C
68	1.3	0.150	811-2045-ND	.60	2.89	5.69	13R683C
100	1.0	0.240	811-2046-ND	.60	2.89	5.69	13R104C
150	0.82	0.330	811-2047-ND	.60	2.89	5.69	13R154C
220	0.70	0.470	811-2048-ND	.60	2.89	5.69	13R224C
330	0.58	0.640	811-2049-ND	.60	2.89	5.69	13R334C
470	0.45	1.05	811-2050-ND	.60	2.89	5.69	13R474C
680	0.42	1.5	811-2051-ND	.60	2.89	5.69	13R684C
1.0mH	0.33	2.1	811-2052-ND	.60	2.89	5.69	13R105C
1.5mH	0.28	3.1	811-2053-ND	.60	2.89	5.69	13R155C
2.2mH	0.24	4.5	811-2054-ND	.60	2.89	5.69	13R225C
3.3mH	0.19	7.0	811-2055-ND	.60	2.89	5.69	13R335C
4.7mH	0.16	9.3	811-2056-ND	.60	2.89	5.69	13R475C
6.8mH	0.13	13.5	811-2057-ND	.60	2.89	5.69	13R685C
10mH	0.085	23.8	811-2058-ND	.60	2.89	5.69	13R106C
15mH	0.080	31.0	811-2059-ND	.60	2.89	5.69	13R156C
22mH	0.070	48.0	811-2060-ND	.60	2.89	5.69	13R226C
33mH	0.060	68.0	811-2061-ND	.60	2.89	5.69	13R336C
47mH	0.045	120.0	811-2062-ND	.60	2.89	5.69	13R476C
68mH	0.040	152.0	811-2063-ND	.60	2.89	5.69	13R686C
Fig. 5 — 1800 Series — Axial Lead							
10	3.45	0.015	811-1329-ND	1.43	6.93	13.65	18103C
15	3.0	0.018	811-1326-ND	1.43	6.93	13.65	18153C
22	2.42	0.025	811-1325-ND	1.43	6.93	13.65	18223C
47	1.65	0.055	811-1322-ND	1.43	6.93	13.65	18473C
100	1.2	0.1	811-1328-ND	1.43	6.93	13.65	18104C
220	0.90	0.23	811-1324-ND	1.43	6.93	13.65	18224C
330	0.73	0.335	811-1323-ND	1.43	6.93	13.65	18334C
1mH	0.44	1.0	811-1327-ND	1.43	6.93	13.65	18105C
Fig. 6 — 1800R Series — Radial Lead							
10	3.45	0.015	811-1321-ND	1.43	6.93	13.65	18R103C
22	2.42	0.025	811-1317-ND	1.43	6.93	13.65	18R223C
33	2.0	0.04	811-1315-ND	1.43	6.93	13.65	18R333C
47	1.65	0.055	811-1313-ND	1.43	6.93	13.65	18R473C
68	1.35	0.07	811-1311-ND	1.43	6.93	13.65	18R683C
100	1.2	0.1	811-1320-ND	1.43	6.93	13.65	18R104C
150	1.1	0.165	811-1318-ND	1.43	6.93	13.65	18R154C
220	0.90	0.23	811-1316-ND	1.43	6.93	13.65	18R224C
330	0.73	0.335	811-1314-ND	1.43	6.93	13.65	18R334C
470	0.60	0.465	811-1312-ND	1.43	6.93	13.65	18R474C
680	0.53	0.63	811-1310-ND	1.43	6.93	13.65	18R684C
1.0mH	0.44	1.0	811-1319-ND	1.43	6.93	13.65	18R105C
Fig. 7 — 2200R Series — Radial Lead							
10	1.62	0.05	811-1309-ND	.60	2.89	5.69	22R103C
15	1.35	0.07	811-1305-ND	.60	2.89	5.69	22R153C
22	1.08	0.09	811-1301-ND	.60	2.89	5.69	22R223C
33	0.90	0.14	811-1297-ND	.60	2.89	5.69	22R333C
47	0.77	0.22	811-1293-ND	.60	2.89	5.69	22R473C
68	0.77	0.28	811-1289-ND	.60	2.89	5.69	22R683C
100	0.67	0.39	811-1308-ND	.60	2.89	5.69	22R104C
150	0.52	0.54	811-1304-ND	.60	2.89	5.69	22R154C
220	0.43	0.83	811-1300-ND	.60	2.89	5.69	22R224C
330	0.38	1.21	811-1296-ND	.60	2.89	5.69	22R334C
470	0.31	1.65	811-1292-ND	.60	2.89	5.69	22R474C
680	0.25	2.64	811-1288-ND	.60	2.89	5.69	22R684C
1.0mH	0.17	3.63	811-1307-ND	.60	2.89	5.69	22R105C
1.5mH	0.13	6.49	811-1303-ND	.60	2.89	5.69	22R155C
2.2mH	0.11	8.58	811-1299-ND	.60	2.89	5.69	22R225C
3.3mH	0.10	10.0	811-1295-ND	.60	2.89	5.69	22R335C
4.7mH	0.081	13.2	811-1291-ND	.60	2.89	5.69	22R475C
6.8mH	0.072	22.0	811-1287-ND	.60	2.89	5.69	22R685C
10mH	0.063	37.4	811-1306-ND	.85	4.13	8.13	22R106C
15mH	0.054	49.5	811-1302-ND	.85	4.13	8.13	22R156C
22mH	0.045	82.5	811-1298-ND	.85	4.13	8.13	22R226C
33mH	0.036	110.0	811-1294-ND	.85	4.13	8.13	22R336C
47mH	0.027	154.0	811-1290-ND	.85	4.13	8.13	22R476C
68mH	0.018	242.0	811-1286-ND	.85	4.13	8.13	22R686C

Flat Coil Surface Mount Power Inductors

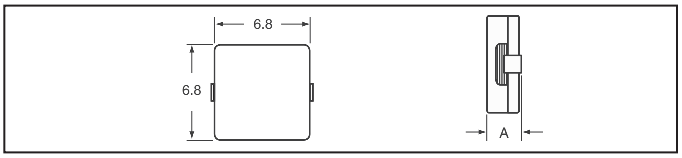

The 3500 and 3600 Series is a range of flat-coil power inductors. They are ideal for high power designs which demand reliability in high temperature environments. Used to provide filtering or energy storage, they are suited to many power applications including portable devices, computers and telecom equipment.

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (mΩ)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 5	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Power Solutions Part No.
3500 Series											
0.25	15.5	4.5	3.2	811-1243-1-ND	1.60	1.51	1.40	811-1243-2-ND	1,400	754.00/M	35251C
0.5	11.5	7	3.2	811-1244-1-ND	1.60	1.51	1.40	811-1244-2-ND	1,400	754.00/M	35501C
0.8	9.5	10	3.2	811-1245-1-ND	1.60	1.51	1.40	811-1245-2-ND	1,400	754.00/M	35801C
1.1	8.0	15	3.2	811-1241-1-ND	1.60	1.51	1.40	811-1241-2-ND	1,400	754.00/M	35112C
1.5	6.5	19	3.2	811-1242-1-ND	1.60	1.51	1.40	811-1242-2-ND	1,400	754.00/M	35152C
3600 Series											
0.4	14.5	4	4.2	811-1250-1-ND	1.71	1.62	1.49	811-1250-2-ND	1,000	806.00	36401C
0.6	12.5	5	4.2	811-1252-1-ND	1.71	1.62	1.49	811-1252-2-ND	1,000	806.00	36601C
1	9.5	7.5	4.2	811-1246-1-ND	1.71	1.62	1.49	811-1246-2-ND	1,000	806.00	36102C
1.8	7	14	4.2	811-1247-1-ND	1.71	1.62	1.49	811-1247-2-ND	1,000	806.00	36182C
2.3	6	20	4.2	811-1248-1-ND	1.71	1.62	1.49	811-1248-2-ND	1,000	806.00	36232C
3.3	4.6	35	4.2	811-1249-1-ND	1.71	1.62	1.49	811-1249-2-ND	1,000	806.00	36332C
4.7	3.6	41	4.2	811-1251-1-ND	1.71	1.62	1.49	811-1251-2-ND	1,000	806.00	36472C

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Murata Power Solutions

Bobbin Type Inductors

The 1400 Series is suitable for many power supply and other general purpose filtering applications. The use of a non-magnetic screw will ensure mechanical stability. The 2800 Series inductors are designed for use in switching power supply and power line filter circuits, and are suitable for any application requiring a high saturation current in a miniature surface-mount footprint.

Fig. 1

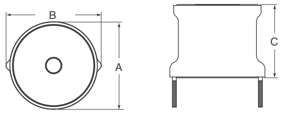

Fig. 2

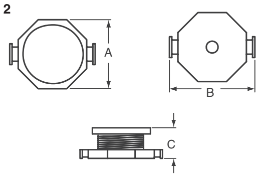

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (Ω)	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Murata Power Solutions Part No.
Fig. 1 — 1400 Series Through Hole Type										
10	13	0.007	24.4	27.0	14.0	811-1346-ND	2.50	2.43	2.39	1410313C
22	11	0.011	24.4	27.0	14.0	811-1341-ND	2.50	2.43	2.39	1422311C
47	8.5	0.021	24.4	26.8	14.0	811-1334-ND	2.50	2.43	2.39	1447385C
68	6.2	0.032	24.4	26.5	14.0	811-1331-ND	2.50	2.43	2.39	1468362C
100	5.4	0.042	24.4	26.4	14.0	811-1345-ND	2.50	2.43	2.39	1410454C
100	7.8	0.040	29.8	32.4	21.8	811-1344-ND	4.06	3.95	3.89	1410478C
150	4	0.069	24.4	26.2	14.0	811-1342-ND	2.50	2.43	2.39	1415440C
220	3.5	0.096	24.4	26.1	14.0	811-1340-ND	2.50	2.43	2.39	1422435C
220	4.1	0.073	24.4	26.3	18.5	811-1339-ND	2.64	2.56	2.52	1422441C
220	5.5	0.062	29.8	32.1	21.8	811-1338-ND	4.06	3.95	3.89	1422455C
300	3	0.14	24.4	25.9	14.0	811-1336-ND	2.50	2.43	2.39	1430430C
330	2.8	0.15	24.4	25.9	14.0	811-1335-ND	2.50	2.43	2.39	1433428C
470	2.3	0.222	24.4	25.7	14.0	811-1333-ND	2.50	2.43	2.39	1447423C
470	4	0.125	29.8	31.7	21.8	811-1332-ND	4.06	3.95	3.89	1447440C
680	2	0.276	24.4	25.7	14.0	811-1330-ND	2.50	2.43	2.39	1468420C
1mH	1.6	0.419	24.4	25.6	14.0	811-1343-ND	2.50	2.43	2.39	1410516C
2.2mH	0.9	0.916	24.4	25.3	14.0	811-1337-ND	2.50	2.43	2.39	1422509C
Fig. 2 — 2800 Series Surface Mount Type										
1	15.5	0.0026	15.2	18.5	7.6	811-1205-1-ND‡	1.87	1.77	1.64	28102C
1	15.5	0.0026	15.2	18.5	7.6	811-1205-2-ND§		357.00/350		28102C
4.7	8.3	0.01	15.2	18.5	7.6	811-1209-1-ND‡	1.87	1.77	1.64	28472C
4.7	8.3	0.01	15.2	18.5	7.6	811-1209-2-ND§		357.00/350		28472C
6.8	6.8	0.014	15.2	18.5	7.6	811-1212-1-ND‡	1.87	1.77	1.64	28682C
6.8	6.8	0.014	15.2	18.5	7.6	811-1212-2-ND§		357.00/350		28682C
10	5.9	0.018	15.2	18.5	7.6	811-1206-1-ND‡	1.87	1.77	1.64	28103C
10	5.9	0.018	15.2	18.5	7.6	811-1206-2-ND§		357.00/350		28103C
47	2.66	0.086	15.2	18.5	7.6	811-1210-1-ND‡	1.87	1.77	1.64	28473C
47	2.66	0.086	15.2	18.5	7.6	811-1210-2-ND§		357.00/350		28473C
68	2.16	0.122	15.2	18.5	7.6	811-1213-1-ND‡	1.87	1.77	1.64	28683C
68	2.16	0.122	15.2	18.5	7.6	811-1213-2-ND§		357.00/350		28683C
100	1.8	0.174	15.2	18.5	7.6	811-1207-1-ND‡	1.87	1.77	1.64	28104C
100	1.8	0.174	15.2	18.5	7.6	811-1207-2-ND§		357.00/350		28104C
470	0.78	0.816	15.2	18.5	7.6	811-1211-1-ND‡	1.87	1.77	1.64	28474C
680	0.64	1.17	15.2	18.5	7.6	811-1214-1-ND‡	1.87	1.77	1.64	28684C
680	0.64	1.17	15.2	18.5	7.6	811-1214-2-ND§		357.00/350		28684C
1000	0.51	1.82	15.2	18.5	7.6	811-1208-1-ND‡	1.87	1.77	1.64	28105C
1000	0.51	1.82	15.2	18.5	7.6	811-1208-2-ND§		357.00/350		28105C

‡ Cut Tape § Tape and Reel

Vertical Mount Toroidal Inductors

The 3200 and 3300 Series is a range of through hole power inductors. Due to the toroidal construction, they exhibit a very low EMI as stray flux is kept to a minimum. Typical applications include switching regulators and power line filtering.

Series	Dimensions (mm) A	B	C
3200	10.0	18.0	24.0
3300	16.3	24.0	31.0

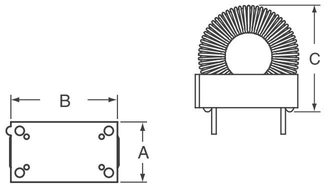

Inductance (µH)	Maximum DC Current (A)	Maximum DC Resistance (mΩ)	Digi-Key Part No.	Pricing 1	5	10	Murata Power Solutions Part No.
3200 Series							
10	4.5	20	811-1215-ND	1.73	8.42	16.58	32100C
15	3.7	24	811-1218-ND	1.73	8.42	16.58	32150C
22	3	29	811-1220-ND	1.73	8.42	16.58	32220C
33	2.5	36	811-1222-ND	1.73	8.42	16.58	32330C
47	2.1	42	811-1224-ND	1.73	8.42	16.58	32470C
68	1.7	62	811-1226-ND	1.73	8.42	16.58	32680C
100	1.4	77	811-1216-ND	1.73	8.42	16.58	32101C
150	1.2	117	811-1219-ND	1.73	8.42	16.58	32151C
220	0.96	141	811-1221-ND	1.73	8.42	16.58	32221C
330	0.78	215	811-1223-ND	1.73	8.42	16.58	32331C
470	0.66	312	811-1225-ND	1.73	8.42	16.58	32471C
680	0.55	377	811-1227-ND	1.73	8.42	16.58	32681C
1000	0.45	568	811-1217-ND	1.73	8.42	16.58	32102C
3300 Series							
10	7.6	20	811-1228-ND	1.84	8.91	17.55	33100C
15	6.2	27	811-1231-ND	1.84	8.91	17.55	33150C
22	5.1	33	811-1233-ND	1.84	8.91	17.55	33220C
33	4.2	40	811-1235-ND	1.84	8.91	17.55	33330C
47	3.5	48	811-1237-ND	1.84	8.91	17.55	33470C
68	2.9	57	811-1239-ND	1.84	8.91	17.55	33680C
100	2.4	70	811-1229-ND	1.84	8.91	17.55	33101C
150	2	84	811-1232-ND	1.84	8.91	17.55	33151C
220	1.6	102	811-1234-ND	1.84	8.91	17.55	33221C
330	1.3	126	811-1236-ND	1.84	8.91	17.55	33331C
470	1.1	152	811-1238-ND	1.84	8.91	17.55	33471C
680	0.92	183	811-1240-ND	1.84	8.91	17.55	33681C
1000	0.76	221	811-1230-ND	1.84	8.91	17.55	33102C

Common Mode Chokes

The 5000, 5100 and 5200 Series common mode chokes are designed to attenuate up to 100MHz common mode noise where line filtering is required, such as switching power supplies and telecom applications.

Series	Dimensions (mm) A	B	C
5000	9.3	7.0	4.4
5100	10.0	18.0	24.0
5200	16.3	24.0	31.0

Fig. 1

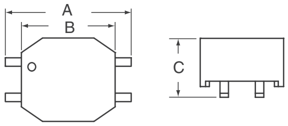

Fig. 2

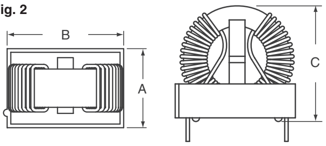

Inductance (mH)	Maximum DC Current (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Price Each 1	5	10	Digi-Key Part No.	Tape and Reel Pricing 1,000	Murata Power Solutions Part No.
Fig. 1 — 5000 Series, Surface Mount Type									
0.47	0.7	0.3	811-1185-1-ND‡	1.79	1.69	1.56	811-1185-2-ND	845.00	50474C
1	0.7	0.3	811-1183-1-ND‡	1.79	1.69	1.56	811-1183-2-ND	845.00	50105C
2.2	0.5	0.4	811-1184-1-ND‡	1.79	1.69	1.56	811-1184-2-ND	845.00	50225C
4.7	0.4	0.7	811-1186-1-ND‡	1.79	1.69	1.56	811-1186-2-ND	845.00	50475C
Fig. 2 — 5100 Series, Through-Hole Type									
0.5	4.1	0.027	811-1255-ND	2.75	2.68	2.64	—	—	51504C
1	3.3	0.038	811-1253-ND	2.75	2.68	2.64	—	—	51105C
3	1.9	0.097	811-1254-ND	2.75	2.68	2.64	—	—	51305C
5	1.2	0.197	811-1256-ND	2.75	2.68	2.64	—	—	51505C
Fig. 2 — 5200 Series, Through-Hole Type									
3	3.5	0.045	811-1258-ND	3.35	3.25	3.21	—	—	52305C
5	2.4	0.091	811-1259-ND	3.35	3.25	3.21	—	—	52505C
7	2.2	0.107	811-1260-ND	3.35	3.25	3.21	—	—	52705C
10	1.7	0.193	811-1257-ND	3.35	3.25	3.21	—	—	52106C

‡ Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Dale High Current Low Profile Surface Mount Inductors —
IHLP Series

Features: • Shielded construction • Frequency range up to 5.0MHz (1.0MHz for IHLP1616AB/BZ and IHLP2020BZ/CZ-11 series; 2.0MHz for IHLP6767GZ-01 series; 750KHz for IHLP6767GZ-11 series) • Lowest DCR/μH, in this package size • Handles high transient current spikes without saturation • Ultra low buzz noise, due to composite construction

Specifications: • All test data is referenced to 25°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Inductance Tolerance:** ±20%

Applications: • PDA/Notebook/Desktop/Server applications • High current POL converters • Low profile, high current power supplies • Battery powered devices • DC/DC converters in distributed power systems • DC/DC converters for Field Programmable Gate Array (FPGA)

Applications for IHLP6767GZ-01 Series: • Desktop/server applications • High current buck and boost converters • Low profile, high current power supplies • DC/DC converters in distributed power systems • High current noise filter

Dimensions in mm

Fig. 1

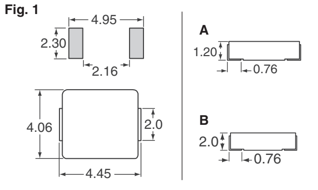

Fig. 2

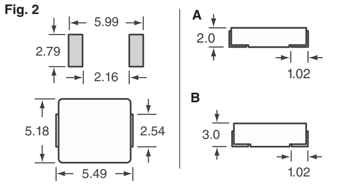

Fig. 3

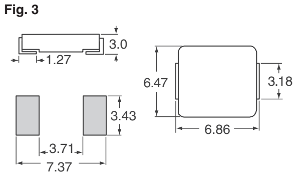

Fig. 4

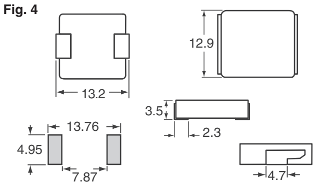

Fig. 5

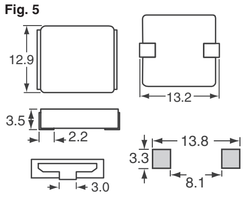

Fig. 6

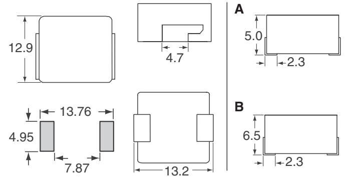

Fig. 7

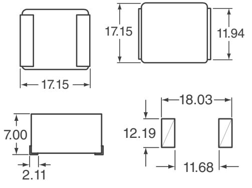

Fig. 8 ***NEW!***

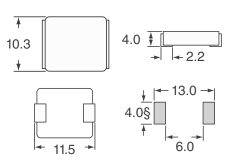

§ 1.0μH or below is 4.95mm

Fig. 9 ***NEW!***

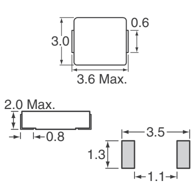

Fig.	Inductance ±20% @ 100kHz 0.25 V, 0 A (μH)	DCR Typical 25°C (mΩ)	DCR Max. 25°C (mΩ)	Heat Rating Current DC Typical (A)†	Saturation Current DC Typical (A)‡	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
1A	0.22	11.0	12.0	8.5	20.0	541-1041-1-ND	2.59	2.10	1.75	541-1041-2-ND	4,000	1190.00/M	IHLP1616ABERR22M01
	0.47	20.0	22.0	5.0	13.0	541-1042-1-ND	2.59	2.10	1.75	541-1042-2-ND	4,000	1190.00/M	IHLP1616ABERR47M01
	1.0	50.0	52.5	4.0	8.5	541-1043-1-ND	2.59	2.10	1.75	541-1043-2-ND	4,000	1190.00/M	IHLP1616ABER1R0M01
	1.0	43.0	47.0	4.2	4.5	541-1044-1-ND	2.59	2.10	1.75	541-1044-2-ND	4,000	1190.00/M	IHLP1616ABER1R0M11
	2.2	90.0	100.0	2.75	3.0	541-1045-1-ND	2.59	2.10	1.75	541-1045-2-ND	4,000	1190.00/M	IHLP1616ABER2R2M11
1B	0.22	7.3	8.0	13.0	24.0	541-1046-1-ND	2.63	2.13	1.78	541-1046-2-ND	4,000	1207.00/M	IHLP1616BZERR22M01
	1.0	33.0	37.0	3.75	8.5	541-1047-1-ND	2.63	2.13	1.78	541-1047-2-ND	4,000	1207.00/M	IHLP1616BZER1R0M01
	2.2	80.0	90.0	2.85	6.0	541-1048-1-ND	2.63	2.13	1.78	541-1048-2-ND	4,000	1207.00/M	IHLP1616BZER2R2M01
	1.0	24.0	27.0	4.5	5.0	541-1049-1-ND	2.63	2.13	1.78	541-1049-2-ND	4,000	1207.00/M	IHLP1616BZER1R0M11
	2.2	61.0	68.0	3.25	3.25	541-1050-1-ND	2.63	2.13	1.78	541-1050-2-ND	4,000	1207.00/M	IHLP1616BZER2R2M11
	4.7	95.0	105.0	1.7	1.75	541-1051-1-ND	2.63	2.13	1.78	541-1051-2-ND	4,000	1207.00/M	IHLP1616BZER4R7M11
2A	0.10	2.7	2.9	21.0	25.0	541-1211-1-ND	2.37	1.92	1.60	541-1211-2-ND	2,000	1088.00/M	IHLP2020BZERR10M11
	0.10	3.6	3.9	17.0	45.0	541-1082-1-ND	2.37	1.92	1.60	541-1082-2-ND	2,000	1088.00/M	IHLP2020BZERR10M01
	0.22	4.1	4.5	17.0	13.0	541-1213-1-ND	2.37	1.92	1.60	541-1213-2-ND	2,000	1088.00/M	IHLP2020BZERR22M11
	0.22	4.9	5.2	15.0	22.0	541-1083-1-ND	2.37	1.92	1.60	541-1083-2-ND	2,000	1088.00/M	IHLP2020BZERR22M01
	0.33	5.5	5.9	13.0	7.5	541-1214-1-ND	2.37	1.92	1.60	541-1214-2-ND	2,000	1088.00/M	IHLP2020BZERR33M11
	0.33	7.6	8.2	12.0	25.0	541-1084-1-ND	2.37	1.92	1.60	541-1084-2-ND	2,000	1088.00/M	IHLP2020BZERR33M01
	0.47	7.1	7.7	12.5	8.0	541-1215-1-ND	2.37	1.92	1.60	541-1215-2-ND	2,000	1088.00/M	IHLP2020BZERR47M11
	0.47	8.1	8.8	11.5	21.0	541-1085-1-ND	2.37	1.92	1.60	541-1085-2-ND	2,000	1088.00/M	IHLP2020BZERR47M01
	0.68	11.2	12.4	10.0	15.0	541-1086-1-ND	2.37	1.92	1.60	541-1086-2-ND	2,000	1088.00/M	IHLP2020BZERR68M01
	1.0	16.8	18.1	7.5	7.0	541-1218-1-ND	2.37	1.92	1.60	541-1218-2-ND	2,000	1088.00/M	IHLP2020BZER1R0M11
	1.0	18.9	20.0	7.0	16.0	541-1087-1-ND	2.37	1.92	1.60	541-1087-2-ND	2,000	1088.00/M	IHLP2020BZER1R0M01
	2.2	34.9	37.7	5.0	5.5	541-1220-1-ND	2.37	1.92	1.60	541-1220-2-ND	2,000	1088.00/M	IHLP2020BZER2R2M11
	2.2	45.6	50.1	4.2	12.5	541-1088-1-ND	2.37	1.92	1.60	541-1088-2-ND	2,000	1088.00/M	IHLP2020BZER2R2M01
	3.3	53.5	57.8	4.1	4.7	541-1221-1-ND	2.37	1.92	1.60	541-1221-2-ND	2,000	1088.00/M	IHLP2020BZER3R3M11
	3.3	79.2	85.5	3.3	8.5	541-1089-1-ND	2.37	1.92	1.60	541-1089-2-ND	2,000	1088.00/M	IHLP2020BZER3R3M01
	4.7	75.3	81.3	3.2	3.0	541-1222-1-ND	2.37	1.92	1.60	541-1222-2-ND	2,000	1088.00/M	IHLP2020BZER4R7M11
	4.7	108.0	116.6	2.8	5.0	541-1090-1-ND	2.37	1.92	1.60	541-1090-2-ND	2,000	1088.00/M	IHLP2020BZER4R7M01
	5.6	85.2	92.0	3.0	2.2	541-1223-1-ND	2.37	1.92	1.60	541-1223-2-ND	2,000	1088.00/M	IHLP2020BZER5R6M11
	5.6	113.0	122.0	2.5	4.5	541-1091-1-ND	2.37	1.92	1.60	541-1091-2-ND	2,000	1088.00/M	IHLP2020BZER5R6M01
	6.8	139.0	150.0	2.4	4.3	541-1092-1-ND	2.37	1.92	1.60	541-1092-2-ND	2,000	1088.00/M	IHLP2020BZER6R8M01
	10.0	169.3	182.8	2.2	2.0	541-1225-1-ND	2.37	1.92	1.60	541-1225-2-ND	2,000	1088.00/M	IHLP2020BZER100M11
	10.0	184.0	199.0	2.3	4.0	541-1093-1-ND	2.37	1.92	1.60	541-1093-2-ND	2,000	1088.00/M	IHLP2020BZER100M01
2B	0.10	2.6	2.9	21.0	25.0	541-1227-1-ND	2.29	1.86	1.55	541-1227-2-ND	2,000	1054.00/M	IHLP2020CZERR10M11
	0.10	3.00	3.16	23.0	27.0	541-1260-1-ND ***NEW!***	2.29	1.86	1.55	541-1260-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR10M01
	0.22	3.5	3.9	21.0	14.5	541-1229-1-ND	2.29	1.86	1.55	541-1229-2-ND	2,000	1054.00/M	IHLP2020CZERR22M11
	0.22	4.30	4.52	15.5	21.0	541-1261-1-ND ***NEW!***	2.29	1.86	1.55	541-1261-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR22M01
	0.33	4.5	5.0	16.5	9.0	541-1230-1-ND	2.29	1.86	1.55	541-1230-2-ND	2,000	1054.00/M	IHLP2020CZERR33M11
	0.33	5.30	5.56	13.7	19.0	541-1262-1-ND ***NEW!***	2.29	1.86	1.55	541-1262-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR33M01
	0.47	5.0	5.4	14.0	9.0	541-1231-1-ND	2.29	1.86	1.55	541-1231-2-ND	2,000	1054.00/M	IHLP2020CZERR47M11
	0.47	6.70	7.04	12.2	16.0	541-1263-1-ND ***NEW!***	2.29	1.86	1.55	541-1263-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR47M01
	0.68	8.53	8.96	10.2	13.5	541-1264-1-ND ***NEW!***	2.29	1.86	1.55	541-1264-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR68M01
	0.82	11.3	11.9	9.3	13.0	541-1265-1-ND ***NEW!***	2.29	1.86	1.55	541-1265-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZERR82M01
	1.0	10.0	11.0	10.0	6.5	541-1234-1-ND	2.29	1.86	1.55	541-1234-2-ND	2,000	1054.00/M	IHLP2020CZER1R0M11
	1.0	13.1	13.7	9.2	12.0	541-1266-1-ND ***NEW!***	2.29	1.86	1.55	541-1266-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER1R0M01
	1.5	17.1	18.5	7.5	7.0	541-1235-1-ND	2.29	1.86	1.55	541-1235-2-ND	2,000	1054.00/M	IHLP2020CZER1R5M11
	1.5	19.7	20.7	7.2	11.0	541-1267-1-ND ***NEW!***	2.29	1.86	1.55	541-1267-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER1R5M01
	2.2	22.5	25.0	6.75	5.5	541-1236-1-ND	2.29	1.86	1.55	541-1236-2-ND	2,000	1054.00/M	IHLP2020CZER2R2M11
	2.2	27.8	29.2	5.8	10.0	541-1268-1-ND ***NEW!***	2.29	1.86	1.55	541-1268-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER2R2M01
	3.3	31.9	35.0	5.5	7.0	541-1237-1-ND	2.29	1.86	1.55	541-1237-2-ND	2,000	1054.00/M	IHLP2020CZER3R3M11
	3.3	52.1	54.7	5.0	8.5	541-1269-1-ND ***NEW!***	2.29	1.86	1.55	541-1269-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER3R3M01
	4.7	54.0	60.0	4.5	5.2	541-1238-1-ND	2.29	1.86	1.55	541-1238-2-ND	2,000	1054.00/M	IHLP2020CZER4R7M11
	4.7	73.8	77.5	3.5	8.2	541-1270-1-ND ***NEW!***	2.29	1.86	1.55	541-1270-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER4R7M01
	5.6	63.0	70.6	4.25	3.5	541-1239-1-ND	2.29	1.86	1.55	541-1239-2-ND	2,000	1054.00/M	IHLP2020CZER5R6M11
	5.6	103.0	108.0	3.0	4.1	541-1271-1-ND ***NEW!***	2.29	1.86	1.55	541-1271-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER5R6M01
	10.0	122.1	131.9	2.75	2.25	541-1241-1-ND	2.29	1.86	1.55	541-1241-2-ND	2,000	1054.00/M	IHLP2020CZER100M11
	10.0	152.0	158.0	2.5	4.0	541-1272-1-ND ***NEW!***	2.29	1.86	1.55	541-1272-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER100M01
	15.0	252.0	265.0	1.9	2.5	541-1273-1-ND ***NEW!***	2.29	1.86	1.55	541-1273-2-ND ***NEW!***	2,000	1054.00/M	IHLP2020CZER150M01
	22.0	250.0	270.0	1.9	1.7	541-1243-1-ND	2.29	1.86	1.55	541-1243-2-ND	2,000	1054.00/M	IHLP2020CZER220M11

† DC current (A) that will cause an approximate ΔT of 40°C ‡ DC current (A) that will cause Lo to drop approximately 20%

NOTE: The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

(Continued)

Fig.	Inductance ±20% @ 100kHz 0.25 V, 0 A (μH)	DCR Typical 25°C (mΩ)	DCR Max. 25°C (mΩ)	Heat Rating Current DC Typical (A)†	Saturation Current DC Typical (A)‡	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
							1	10	100		Qty.	Pricing	
3	0.10	1.5	1.7	32.5	60.0	541-1000-1-ND	2.26	1.83	1.53	541-1000-2-ND	2,000	1037.00/M	IHLP2525CZERR10M01
	0.20	2.4	3.0	24.0	41.0	541-1001-1-ND	2.26	1.83	1.53	541-1001-2-ND	2,000	1037.00/M	IHLP2525CZERR20M01
	0.33	3.5	3.9	20.0	30.0	541-1002-1-ND	2.26	1.83	1.53	541-1002-2-ND	2,000	1037.00/M	IHLP2525CZERR33M01
	0.47	4.0	4.2	17.5	26.0	541-1003-1-ND	2.26	1.83	1.53	541-1003-2-ND	2,000	1037.00/M	IHLP2525CZERR47M01
	0.68	5.0	5.5	15.5	25.0	541-1004-1-ND	2.26	1.83	1.53	541-1004-2-ND	2,000	1037.00/M	IHLP2525CZERR68M01
	0.82	6.7	8.0	13.0	24.0	541-1005-1-ND	2.26	1.83	1.53	541-1005-2-ND	2,000	1037.00/M	IHLP2525CZERR82M01
	1.0	9.0	10.0	11.0	22.0	541-1006-1-ND	2.26	1.83	1.53	541-1006-2-ND	2,000	1037.00/M	IHLP2525CZER1R0M01
	1.5	14.0	15.0	9.0	18.0	541-1007-1-ND	2.26	1.83	1.53	541-1007-2-ND	2,000	1037.00/M	IHLP2525CZER1R5M01
	2.2	18.0	20.0	8.0	14.0	541-1008-1-ND	2.26	1.83	1.53	541-1008-2-ND	2,000	1037.00/M	IHLP2525CZER2R2M01
	3.3	28.0	30.0	6.0	13.5	541-1009-1-ND	2.26	1.83	1.53	541-1009-2-ND	2,000	1037.00/M	IHLP2525CZER3R3M01
	4.7	37.0	40.0	5.5	10.0	541-1010-1-ND	2.26	1.83	1.53	541-1010-2-ND	2,000	1037.00/M	IHLP2525CZER4R7M01
	6.8	54.0	60.0	4.5	8.0	541-1011-1-ND	2.70	2.19	1.83	541-1011-2-ND	2,000	1241.00/M	IHLP2525CZER6R8M01
	8.2	64.0	68.0	4.0	7.5	541-1012-1-ND	2.70	2.19	1.83	541-1012-2-ND	2,000	1241.00/M	IHLP2525CZER8R2M01
	10.0	102.0	105.0	3.0	7.0	541-1013-1-ND	2.70	2.19	1.83	541-1013-2-ND	2,000	1241.00/M	IHLP2525CZER100M01
4	0.47	1.6	2.0	32.0	55.0	541-1014-1-ND	5.11	4.14	3.45	541-1014-2-ND	500	1173.00	IHLP5050CEERR47M01
5	0.68	2.3	2.5	28.0	49.0	541-1015-1-ND	5.11	4.14	3.45	541-1015-2-ND	500	1173.00	IHLP5050CEERR68M01
	0.82	2.6	3.0	25.0	44.0	541-1016-1-ND	5.11	4.14	3.45	541-1016-2-ND	500	1173.00	IHLP5050CEERR82M01
	1.0	3.3	3.5	24.0	40.0	541-1017-1-ND	5.11	4.14	3.45	541-1017-2-ND	500	1173.00	IHLP5050CEER1R0M01
	1.5	5.1	5.5	19.0	35.0	541-1018-1-ND	5.11	4.14	3.45	541-1018-2-ND	500	1173.00	IHLP5050CEER1R5M01
	2.2	7.2	8.0	16.0	29.0	541-1019-1-ND	5.11	4.14	3.45	541-1019-2-ND	500	1173.00	IHLP5050CEER2R2M01
	3.3	11.0	12.0	12.0	27.0	541-1020-1-ND	5.11	4.14	3.45	541-1020-2-ND	500	1173.00	IHLP5050CEER3R3M01
	4.7	14.3	15.0	10.0	24.0	541-1021-1-ND	5.11	4.14	3.45	541-1021-2-ND	500	1173.00	IHLP5050CEER4R7M01
	5.6	18.3	19.0	9.5	19.0	541-1022-1-ND	5.74	4.65	3.88	541-1022-2-ND	500	1317.50	IHLP5050CEER5R6M01
	6.8	19.8	22.0	9.0	18.0	541-1023-1-ND	5.74	4.65	3.88	541-1023-2-ND	500	1317.50	IHLP5050CEER6R8M01
	10.0	30.4	34.0	7.0	14.0	541-1024-1-ND	5.74	4.65	3.88	541-1024-2-ND	500	1317.50	IHLP5050CEER100M01
6A	1.0	2.1	2.5	29.0	50.0	541-1025-1-ND	5.85	4.74	3.95	541-1025-2-ND	250	671.50	IHLP5050EZER1R0M01
	2.2	4.6	5.5	20.0	32.0	541-1026-1-ND	5.85	4.74	3.95	541-1026-2-ND	250	671.50	IHLP5050EZER2R2M01
	3.3	7.7	9.2	15.0	32.0	541-1027-1-ND	5.85	4.74	3.95	541-1027-2-ND	250	671.50	IHLP5050EZER3R3M01
	4.7	12.8	15.0	12.0	27.0	541-1028-1-ND	5.85	4.74	3.95	541-1028-2-ND	250	671.50	IHLP5050EZER4R7M01
	6.8	15.4	18.5	11.0	21.0	541-1029-1-ND	6.59	5.34	4.45	541-1029-2-ND	250	756.50	IHLP5050EZER6R8M01
	10.0	21.4	25.5	9.0	16.0	541-1030-1-ND	6.59	5.34	4.45	541-1030-2-ND	250	756.50	IHLP5050EZER100M01
6B	0.47	1.0	1.2	41.0	63.0	541-1031-1-ND	6.59	5.34	4.45	541-1031-2-ND	250	756.50	IHLP5050FDERR47M01
	1.0	1.7	2.0	32.0	49.0	541-1032-1-ND	6.59	5.34	4.45	541-1032-2-ND	250	756.50	IHLP5050FDER1R0M01
	2.2	3.5	4.2	22.0	40.0	541-1033-1-ND	6.59	5.34	4.45	541-1033-2-ND	250	756.50	IHLP5050FDER2R2M01
	3.3	5.7	6.8	18.0	35.0	541-1034-1-ND	6.59	5.34	4.45	541-1034-2-ND	250	756.50	IHLP5050FDER3R3M01
	4.7	9.3	11.2	13.5	30.0	541-1035-1-ND	6.59	5.34	4.45	541-1035-2-ND	250	756.50	IHLP5050FDER4R7M01
	10.0	16.4	17.2	10.0	15.5	541-1036-1-ND	6.59	5.34	4.45	541-1036-2-ND	250	756.50	IHLP5050FDER100M01
7	0.22	0.63	0.75	80.0	129.0	541-1245-1-ND	6.14	4.98	4.15	541-1245-2-ND	200	564.40	IHLP6767GZERR22M01
	0.33	0.71	0.82	65.0	126.0	541-1246-1-ND	6.14	4.98	4.15	541-1246-2-ND	200	564.40	IHLP6767GZERR33M01
	0.47	0.84	0.95	62.0	123.0	541-1247-1-ND	6.14	4.98	4.15	541-1247-2-ND	200	564.40	IHLP6767GZERR47M01
	0.47	0.78	0.87	64.5	62.0	541-1275-1-ND ***NEW!***	6.14	4.98	4.15	541-1275-2-ND ***NEW!***	200	564.40	IHLP6767GZERR47M11
	0.56	0.91	1.05	56.0	88.0	541-1248-1-ND	6.14	4.98	4.15	541-1248-2-ND	200	564.40	IHLP6767GZERR56M01
	0.82	1.17	1.29	50.0	73.0	541-1249-1-ND	6.14	4.98	4.15	541-1249-2-ND	200	564.40	IHLP6767GZERR82M01
	0.82	0.98	1.10	56.5	45.0	541-1277-1-ND ***NEW!***	6.14	4.98	4.15	541-1277-2-ND ***NEW!***	200	564.40	IHLP6767GZERR82M11
	1.0	1.28	1.38	48.0	73.0	541-1250-1-ND	6.14	4.98	4.15	541-1250-2-ND	200	564.40	IHLP6767GZER1R0M01
	1.0	1.21	1.27	55.5	32.0	541-1278-1-ND ***NEW!***	6.14	4.98	4.15	541-1278-2-ND ***NEW!***	200	564.40	IHLP6767GZER1R0M11
	1.5	1.78	1.88	42.0	65.0	541-1251-1-ND	6.14	4.98	4.15	541-1251-2-ND	200	564.40	IHLP6767GZER1R5M01
	1.5	1.54	1.62	48.0	31.0	541-1279-1-ND ***NEW!***	6.14	4.98	4.15	541-1279-2-ND ***NEW!***	200	564.40	IHLP6767GZER1R5M11
	1.8	1.96	2.10	38.0	65.0	541-1252-1-ND	6.14	4.98	4.15	541-1252-2-ND	200	564.40	IHLP6767GZER1R8M01
	2.2	2.40	2.53	35.0	62.0	541-1253-1-ND	6.14	4.98	4.15	541-1253-2-ND	200	564.40	IHLP6767GZER2R2M01
	2.2	1.85	1.98	43.5	28.0	541-1280-1-ND ***NEW!***	6.14	4.98	4.15	541-1280-2-ND ***NEW!***	200	564.40	IHLP6767GZER2R2M11
	3.3	3.68	3.88	28.0	54.0	541-1254-1-ND	6.14	4.98	4.15	541-1254-2-ND	200	564.40	IHLP6767GZER3R3M01
	3.3	2.79	2.93	35.0	27.0	541-1281-1-ND ***NEW!***	6.29	5.10	4.25	541-1281-2-ND ***NEW!***	200	564.40	IHLP6767GZER3R3M11
	4.7	4.84	5.11	25.0	41.0	541-1255-1-ND	6.14	4.98	4.15	541-1255-2-ND	200	564.40	IHLP6767GZER4R7M01
	4.7	3.98	4.18	30.0	21.0	541-1282-1-ND ***NEW!***	6.14	4.98	4.15	541-1282-2-ND ***NEW!***	200	550.80	IHLP6767GZER4R7M11
	5.6	6.68	7.05	21.0	40.0	541-1256-1-ND	6.14	4.98	4.15	541-1256-2-ND	200	564.40	IHLP6767GZER5R6M01
	5.6	4.23	4.44	28.0	21.0	541-1283-1-ND ***NEW!***	6.29	5.10	4.25	541-1283-2-ND ***NEW!***	200	564.40	IHLP6767GZER5R6M11
	6.8	8.37	8.83	19.0	32.0	541-1257-1-ND	6.14	4.98	4.15	541-1257-2-ND	200	564.40	IHLP6767GZER6R8M01
	6.8	5.86	6.15	22.5	18.5	541-1284-1-ND ***NEW!***	6.14	4.98	4.15	541-1284-2-ND ***NEW!***	200	564.40	IHLP6767GZER6R8M11
	8.2	10.10	10.66	18.0	25.0	541-1258-1-ND	6.14	4.98	4.15	541-1258-2-ND	200	564.40	IHLP6767GZER8R2M01
	8.2	7.71	8.10	21.0	18.0	541-1285-1-ND ***NEW!***	6.14	4.98	4.15	541-1285-2-ND ***NEW!***	200	564.40	IHLP6767GZER8R2M11
	10.0	11.6	12.0	16.5	25.0	541-1259-1-ND	6.14	4.98	4.15	541-1259-2-ND	200	564.40	IHLP6767GZER100M01
	10.0	8.89	9.33	19.0	17.0	541-1286-1-ND ***NEW!***	6.14	4.98	4.15	541-1286-2-ND ***NEW!***	200	564.40	IHLP6767GZER100M11
	15.0	13.7	14.4	14.0	12.0	541-1287-1-ND ***NEW!***	6.14	4.98	4.15	541-1287-2-ND ***NEW!***	200	564.40	IHLP6767GZER150M11
	22.0	20.0	21.0	12.0	9.5	541-1288-1-ND ***NEW!***	6.14	4.98	4.15	541-1288-2-ND ***NEW!***	200	564.40	IHLP6767GZER220M11
	33.0	35.1	37.0	10.7	9.0	541-1289-1-ND ***NEW!***	6.14	4.98	4.15	541-1289-2-ND ***NEW!***	200	564.40	IHLP6767GZER330M11
	47.0	40.7	42.7	8.7	8.6	541-1290-1-ND ***NEW!***	6.14	4.98	4.15	541-1290-2-ND ***NEW!***	200	564.40	IHLP6767GZER470M11
	56.0	55	57.8	7.2	4.2	541-1291-1-ND ***NEW!***	6.14	4.98	4.15	541-1291-2-ND ***NEW!***	200	564.40	IHLP6767GZER560M11
	68.0	72.1	75.7	6.1	4.5	541-1292-1-ND ***NEW!***	6.14	4.98	4.15	541-1292-2-ND ***NEW!***	200	564.40	IHLP6767GZER680M11
	100.0	105.0	110.0	5.0	4.0	541-1294-1-ND ***NEW!***	6.29	5.10	4.25	541-1294-2-ND ***NEW!***	200	564.40	IHLP6767GZER101M11
8	0.36§	1.3	1.4	31.5	60.0	541-1302-1-ND ***NEW!***	2.52	2.04	1.70	541-1302-2-ND ***NEW!***	500	578.00	IHLP4040DZERR36M01
	0.56§	1.7	1.8	27.5	49.0	541-1296-1-ND ***NEW!***	2.52	2.04	1.70	541-1296-2-ND ***NEW!***	500	578.00	IHLP4040DZERR56M01
	1.0§	2.3	2.5	25.0	20.0	541-1306-1-ND ***NEW!***	2.52	2.04	1.70	541-1306-2-ND ***NEW!***	500	578.00	IHLP4040DZER1R0M11
	1.0§	3.7	4.1	17.5	36.0	541-1300-1-ND ***NEW!***	2.52	2.04	1.70	541-1300-2-ND ***NEW!***	500	578.00	IHLP4040DZER1R0M01
	1.5	5.3	5.8	15.0	27.5	541-1301-1-ND ***NEW!***	2.52	2.04	1.70	541-1301-2-ND ***NEW!***	500	578.00	IHLP4040DZER1R5M01
	1.8	4.5	5.0	17.0	16.0	541-1313-1-ND ***NEW!***	2.52	2.04	1.70	541-1313-2-ND ***NEW!***	500	578.00	IHLP4040DZER1R8M11
	2.0	5.2	5.8	16.0	14.0	541-1311-1-ND ***NEW!***	2.52	2.04	1.70	541-1311-2-ND ***NEW!***	500	578.00	IHLP4040DZER2R0M11
	2.2	8.2	9.0	12.0	25.6	541-1299-1-ND ***NEW!***	2.52	2.04	1.70	541-1299-2-ND ***NEW!***	500	578.00	IHLP4040DZER2R2M01
	3.3	10.8	11.8	10.0	18.6	541-1298-1-ND ***NEW!***	2.52	2.04	1.70	541-1298-2-ND ***NEW!***	500	578.00	IHLP4040DZER3R3M01
	4.7	12.9	14.2	9.5	7.6	541-1312-1-ND ***NEW!***	2.52	2.04	1.70	541-1312-2-ND ***NEW!***	500	578.00	IHLP4040DZER4R7M11
	4.7	15.0	16.5	9.5	17.0	541-1297-1-ND ***NEW!***	2.52	2.04	1.70	541-1297-2-ND ***NEW!***	500	578.00	IHLP4040DZER4R7M01
	5.6	17.6	19.3	8.5	16.0	541-1304-1-ND ***NEW!***	2.52	2.04	1.70	541-1304-2-ND ***NEW!***	500	578.00	IHLP4040DZER5R6M01
	6.8	21.2	23.3	8.0	13.5	541-1303-1-ND ***NEW!***	2.52	2.04	1.70	541-1303-2-ND ***NEW!***	500	578.00	IHLP4040DZER6R8M01
	10.0	27.8	30.5	7.5	7.1	541-1308-1-ND ***NEW!***	2.52	2.04	1.70	541-1308-2-ND ***NEW!***	500	578.00	IHLP4040DZER100M11
	10.0	33.2	36.5	6.8	12.0	541-1295-1-ND ***NEW!***	2.52	2.04	1.70	541-1295-2-ND ***NEW!***	500	578.00	IHLP4040DZER100M01
	15.0	40.9	45.0	6.25	6.0	541-1309-1-ND ***NEW!***	2.52	2.04	1.70	541-1309-2-ND ***NEW!***	500	578.00	IHLP4040DZER150M11
	22.0	60.4	66.0	5.0	4.5	541-1307-1-ND ***NEW!***	2.52	2.04	1.70	541-1307-2-ND ***NEW!***	500	578.00	IHLP4040DZER220M11
	47.0	132.0	145.0	3.3	3.0	541-1305-1-ND ***NEW!***	2.52	2.04	1.70	541-1305-2-ND ***NEW!***	500	578.00	IHLP4040DZER470M11
	100.0	249.0	270.0	2.5	2.25	541-1310-1-ND ***NEW!***	2.52	2.04	1.70	541-1310-2-ND ***NEW!***	500	578.00	IHLP4040DZER101M11
9	0.22	9.5	11.4	6.5	7.5	541-1314-1-ND ***NEW!***	1.26	1.02	.85	541-1314-2-ND ***NEW!***	3,000	578.00/M	IHLP1212BZERR22M11
	0.36	11.5	13.8	6.3	6.5	541-1315-1-ND ***NEW!***	1.26	1.02	.85	541-1315-2-ND ***NEW!***	3,000	578.00/M	IHLP1212BZERR36M11
	0.56	16.2	19.4	5.5	5.5	541-1316-1-ND ***NEW!***	1.30	1.05	.88	541-1316-2-ND ***NEW!***	3,000	595.00/M	IHLP1212BZERR56M11
	0.68	17.0	20.4	5.5	5.0	541-1317-1-ND ***NEW!***	1.30	1.05	.88	541-1317-2-ND ***NEW!***	3,000	595.00/M	IHLP1212BZERR68M11
	0.88	18.5	22.0	5.5	4.5	541-1318-1-ND ***NEW!***	1.30	1.05	.88	541-1318-2-ND ***NEW!***	3,000	595.00/M	IHLP1212BZERR88M11
	1.0	20.0	24.0	5.0	4.5	541-1319-1-ND ***NEW!***	1.33	1.08	.90	541-1319-2-ND ***NEW!***	3,000	612.00/M	IHLP1212BZER1R0M11
	1.2	23.0	27.0	5.0	4.0	541-1320-1-ND ***NEW!***	1.33	1.08	.90	541-1320-2-ND ***NEW!***	3,000	612.00/M	IHLP1212BZER1R2M11
	1.5	28.5	32.0	3.8	4.0	541-1321-1-ND ***NEW!***	1.33	1.08	.90	541-1321-2-ND ***NEW!***	3,000	612.00/M	IHLP1212BZER1R5M11

† DC current (A) that will cause an approximate ΔT of 40°C ‡ DC current (A) that will cause Lo to drop approximately 20%

NOTE: The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

VISHAY. Dale

High Current Surface Mount Inductors — IHSM Series

Features: • Flame retardant encapsulant (UL 94V-0) • Completely encapsulated winding provides superior environmental protection and moisture resistance • High current unit in surface mount package printed with model, inductance value and date code • Compatible with infrared or conventional reflow soldering methods • Pick and place compatible **Applications:** • Excellent for power line noise filters • Filters for switching regulated power supplies • DC/DC converters • SCR and Triac controls • RFI suppression **Electrical Specifications:** • Inductance: Measured at 1V with no DC current • Inductance Tolerance: ±15% • Incremental Current: The typical current at which the inductance will be decreased by 5% from its initial zero DC value • Operating Temperature: -55°C ~ 125°C (no load); -55°C ~ 85°C (at full rated current) **Material Specifications:** • Core: High resistivity ferrite core • Encapsulant: Epoxy • Terminals: 100% Sn over Ni

Model	Dimensions (mm)									
	A	B	C	D	E	F	G	H	J	K
1	11.18	5.72	1.91	9.65	14.22	5.58	4.57	5.08	4.32	6.35
2	13.72	5.72	1.91	12.19	16.76	5.58	4.57	7.62	4.32	6.35
3	16.26	7.24	2.54	14.73	21.97	7.37	6.60	8.76	5.46	8.13
4	21.34	7.24	2.54	19.81	26.67	7.37	6.60	13.46	5.46	8.13

Model	Inductance @ 1kHz (µH)	DCR Max. (Ω)	Rated Current (Max Amps)	Incremental Current (Amps Approx.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
1	1.0	0.015	5.11	4.41	541-1052-1-ND	3.18	2.58	2.15	541-1052-2-ND	750	1096.50	IHSM3825ER1R0L
	2.2	0.031	3.61	2.62	541-1053-1-ND	3.18	2.58	2.15	541-1053-2-ND	750	1096.50	IHSM3825ER2R2L
	4.7	0.083	2.17	1.93	541-1054-1-ND	3.18	2.58	2.15	541-1054-2-ND	750	1096.50	IHSM3825ER4R7L
	10.0	0.126	1.74	1.36	541-1055-1-ND	3.40	2.76	2.30	541-1055-2-ND	750	1173.00	IHSM3825ER100L
	15.0	0.228	1.29	1.11	541-1056-1-ND	3.40	2.76	2.30	541-1056-2-ND	750	1173.00	IHSM3825ER150L
	22.0	0.336	1.05	0.96	541-1057-1-ND	3.40	2.76	2.30	541-1057-2-ND	750	1173.00	IHSM3825ER220L
	33.0	0.440	0.92	0.75	541-1058-1-ND	3.40	2.76	2.30	541-1058-2-ND	750	1173.00	IHSM3825ER330L
	47.0	0.646	0.74	0.68	541-1059-1-ND	3.33	2.70	2.25	541-1059-2-ND	750	1147.50	IHSM3825ER470L
	100.0	1.440	0.48	0.42	541-1060-1-ND	3.33	2.70	2.25	541-1060-2-ND	750	1147.50	IHSM3825ER101L
	220.0	3.650	0.34	0.28	541-1061-1-ND	3.00	2.43	2.03	541-1061-2-ND	750	1032.75	IHSM3825ER221L
	330.0	5.070	0.27	0.23	541-1062-1-ND	3.77	3.06	2.55	541-1062-2-ND	750	1300.50	IHSM3825ER331L
	470.0	7.670	0.22	0.19	541-1063-1-ND	3.77	3.06	2.55	541-1063-2-ND	750	1300.50	IHSM3825ER471L
	1000.0	12.97	0.16	0.13	541-1064-1-ND	3.63	2.94	2.45	541-1064-2-ND	750	1249.50	IHSM3825ER102L
2	1.0	0.013	8.6	4.1	541-1037-1-ND	3.15	2.55	2.13	541-1037-2-ND	750	1083.75	IHSM4825ER1R0L
	22.0	0.152	1.7	1.02	541-1038-1-ND	3.29	2.67	2.23	541-1038-2-ND	750	1134.75	IHSM4825ER220L
	47.0	0.362	1.07	0.74	541-1039-1-ND	2.96	2.40	2.00	541-1039-2-ND	750	1020.00	IHSM4825ER470L
	100.0	0.672	0.73	0.5	541-1040-1-ND	2.96	2.40	2.00	541-1040-2-ND	750	1020.00	IHSM4825ER101L
3	470.0	2.21	0.49	0.31	541-1065-1-ND	3.66	2.97	2.48	541-1065-2-ND	500	841.50	IHSM5832ER471L
	1000.0	4.20	0.37	0.21	541-1066-1-ND	3.74	3.03	2.53	541-1066-2-ND	500	858.50	IHSM5832ER102L
	1500.0	7.35	0.29	0.17	541-1067-1-ND	3.18	2.58	2.15	541-1067-2-ND	500	731.00	IHSM5832ER152L
	2700.0	11.29	0.20	0.13	541-1068-1-ND	3.18	2.58	2.15	541-1068-2-ND	500	731.00	IHSM5832ER272L
	4700.0	23.10	0.14	0.10	541-1070-1-ND	3.18	2.58	2.15	541-1070-2-ND	500	731.00	IHSM5832ER472L
4	4700.0	10.6	0.23	0.09	541-1071-1-ND	4.07	3.30	2.75	541-1071-2-ND	500	935.00	IHSM7832ER472L
	10,000.0	24.6	0.16	0.07	541-1072-1-ND	4.18	3.39	2.83	541-1072-2-ND	500	960.50	IHSM7832ER103L
	15,000.0	37.8	0.12	0.055	541-1073-1-ND	4.18	3.39	2.83	541-1073-2-ND	500	960.50	IHSM7832ER153L

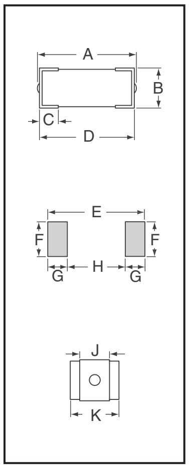

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muRata
Innovator in Electronics

Chip Coils Monolithic and Film Type SMD

Induct-ance (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing	Murata Part No.
LQP03T_00 Series — Case 0201													
1.0	±0.2nH	500	400	13	0.10 max.	6,000	490-2481-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN1N0C00D
1.2	±0.2nH	500	280	13	0.13 max.	6,000	490-2482-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN1N2C00D
1.5	±0.2nH	500	280	13	0.16 max.	6,000	490-2483-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN1N5C00D
1.8	±0.2nH	500	280	13	0.16 max.	6,000	490-2484-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN1N8C00D
2.2	±0.2nH	500	220	13	0.18 max.	6,000	490-2485-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN2N2C00D
2.7	±0.2nH	500	220	13	0.21 max.	6,000	490-2486-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN2N7C00D
3.3	±0.2nH	500	190	13	0.30 max.	6,000	490-2487-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN3N3C00D
3.9	±0.2nH	500	170	13	0.45 max.	6,000	490-2488-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN3N9C00D
4.7	±5%	500	160	13	0.55 max.	6,000	490-2489-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN4N7J00D
5.6	±5%	500	140	13	0.68 max.	6,000	490-2490-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN5N6J00D
6.8	±5%	500	130	13	0.75 max.	6,000	490-2491-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN6N8J00D
8.2	±5%	500	110	13	0.86 max.	5,500	490-2492-1-ND	.23	1.89	15.12	10,000	66.15/M	LQP03TN8N2J00D
LQP03T_04 Series — Case 0201													
1.0	±0.2nH	500	400	13	0.10 max.	6,000	490-4069-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN1N0C04D
1.2	±0.2nH	500	280	13	0.13 max.	6,000	490-4070-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN1N2C04D
1.5	±0.2nH	500	280	13	0.16 max.	6,000	490-4071-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN1N5C04D
1.8	±0.2nH	500	280	13	0.16 max.	6,000	490-4072-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN1N8C04D
2.2	±0.2nH	500	220	13	0.18 max.	6,000	490-4073-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN2N2C04D
3.3	±0.2nH	500	190	13	0.20 max.	6,000	490-4074-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN3N3C04D
3.9	±0.2nH	500	170	13	0.30 max.	6,000	490-4075-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN3N9C04D
4.7	±5%	500	160	13	0.40 max.	6,000	490-4076-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN4N7J04D
5.6	±5%	500	140	13	0.55 max.	6,000	490-4077-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN5N6J04D
6.8	±5%	500	130	13	0.60 max.	6,000	490-4078-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN6N8J04D
8.2	±5%	500	110	13	0.86 max.	5,500	490-4079-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN8N2J04D
10	±5%	500	100	13	1.10 max.	4,500	490-4080-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN10NJ04D
12	±5%	500	90	11	1.15 max.	3,700	490-4081-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN12NJ04D
15	±5%	500	90	11	1.40 max.	3,700	490-4082-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN15NJ04D
18	±5%	500	80	11	1.60 max.	3,100	490-4083-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN18NJ04D
22	±5%	500	70	11	2.55 max.	2,800	490-4084-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN22NJ04D
27	±5%	500	70	11	2.90 max.	2,500	490-4085-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN27NJ04D
33	±5%	300	60	8	2.95 max.	2,000	490-4086-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN33NJ04D
39	±5%	300	60	8	3.35 max.	1,800	490-4087-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN39NJ04D
47	±5%	300	50	8	3.60 max.	1,600	490-4088-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN47NJ04D
56	±5%	300	50	8	4.30 max.	1,400	490-4089-1-ND	.23	1.89	15.12	10,000	66.00/M	LQP03TN56NJ04D
LQP15M Series — Case 0402													
1.0	±0.1nH	500	400	13	0.10 max.	6,000	490-1124-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N0B02D
1.2	±0.1nH	500	390	13	0.10 max.	6,000	490-1125-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N2B02D
1.5	±0.1nH	500	280	13	0.20 max.	6,000	490-1126-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N5B02D
1.8	±0.1nH	500	280	13	0.20 max.	6,000	490-1127-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N8B02D
2.2	±0.1nH	500	220	13	0.30 max.	6,000	490-1128-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N2B02D
2.7	±0.1nH	500	220	13	0.30 max.	6,000	490-1129-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N7B02D
3.3	±0.1nH	500	190	13	0.40 max.	6,000	490-1130-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N3B02D
3.9	±0.1nH	500	170	13	0.50 max.	6,000	490-1131-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N9B02D
4.7	±0.1nH	500	160	13	0.60 max.	6,000	490-1132-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN4N7B02D
5.6	±0.1nH	500	140	13	0.70 max.	6,000	490-1133-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN5N6B02D
6.8	±0.1nH	500	130	13	0.90 max.	6,000	490-1134-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN6N8B02D
8.2	±0.1nH	500	110	13	1.10 max.	5,500	490-1135-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN8N2B02D

◊ For Tape and Reel part number, change 1-ND to 2-ND.

Dimensions in mm

LQP03T_00 Series

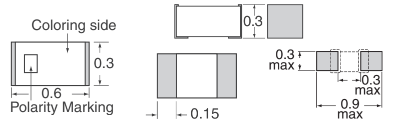

Murata's original thin film technology contributes further to miniaturizing high performance equipment because the size is small and the Q-value is high.

LQP03T_04 Series

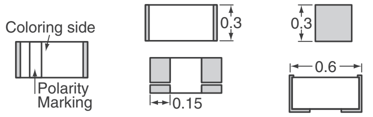

Features: • Ultra small 0201 size • High Q value of some items has been heightened and direction indicator has been enabled this enables easy impedance at matching RF and IF circuits • High frequency designing.

LQP15M Series

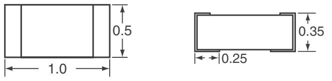

Features: • Tight inductance tolerance • Ultra small size 0402 inductor, low profile and lightest weight in the world, enables miniaturization of mobile telecommunication equipment • Weight: LQP15M Series 0.61mg/pcs multilayer film type inductor 0.94mg/pcs

LQG15HS Series

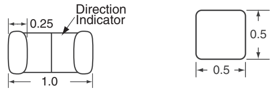

Chip inductors specifically designed for high frequency applications. They are designed to realize stable characteristics in high frequency range applying integrated multilayer process. Integrated multilayer process enables a wide range of inductance values with tight tolerance.

(Continued)

Chip Coils Monolithic and Film Type SMD *(Cont.)*

Induct-ance (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Murata Part No.
								1	10	100	Qty.	Pricing	
LQG15HS Series — Case 0402													
1.0	±0.3nH	100	300	8	0.07 max.	10,000	490-2610-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS1N0S02D
1.2	±0.3nH	100	300	8	0.09 max.	6,000	490-2611-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS1N2S02D
1.5	±0.3nH	100	300	8	0.10 max.	6,000	490-2612-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS1N5S02D
1.8	±0.3nH	100	300	8	0.10 max.	6,000	490-2613-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS1N8S02D
2.2	±0.3nH	100	300	8	0.12 max.	6,000	490-2614-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS2N2S02D
2.7	±0.3nH	100	300	8	0.15 max.	6,000	490-2615-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS2N7S02D
3.3	±0.3nH	100	300	8	0.17 max.	6,000	490-2616-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS3N3S02D
3.9	±0.3nH	100	300	8	0.18 max.	6,000	490-2617-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS3N9S02D
4.7	±0.3nH	100	300	8	0.18 max.	6,000	490-2618-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS4N7S02D
5.6	±0.3nH	100	300	8	0.20 max.	4,500	490-2619-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS5N6S02D
6.2	±0.3nH	100	300	8	0.22 max.	4,500	490-2620-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS6N2S02D
6.8	±5%	100	300	8	0.24 max.	4,500	490-2621-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS6N8J02D
7.5	±5%	100	300	8	0.24 max.	4,200	490-3456-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS7N5J02D
8.2	±5%	100	300	8	0.24 max.	3,700	490-2622-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS8N2J02D
10	±5%	100	300	8	0.26 max.	3,400	490-2623-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS10NJ02D
12	±5%	100	300	8	0.28 max.	3,000	490-2624-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS12NJ02D
15	±5%	100	300	8	0.32 max.	2,500	490-2625-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS15NJ02D
18	±5%	100	300	8	0.36 max.	2,200	490-2626-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS18NJ02D
22	±5%	100	300	8	0.42 max.	1,900	490-2627-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS22NJ02D
27	±5%	100	300	8	0.46 max.	1,700	490-2628-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS27NJ02D
33	±5%	100	200	8	0.58 max.	1,600	490-2629-1-ND	.07	.59	4.68	10,000	20.48/M	LQG15HS33NJ02D
39	±5%	100	200	8	0.65 max.	1,200	490-2630-1-ND	.08	.64	5.12	10,000	22.40/M	LQG15HS39NJ02D
47	±5%	100	200	8	0.72 max.	1,000	490-2631-1-ND	.08	.64	5.12	10,000	22.40/M	LQG15HS47NJ02D
56	±5%	100	200	8	0.82 max.	800	490-2632-1-ND	.08	.64	5.12	10,000	22.40/M	LQG15HS56NJ02D
68	±5%	100	180	8	0.92 max.	800	490-2633-1-ND	.08	.64	5.12	10,000	22.40/M	LQG15HS68NJ02D
82	±5%	100	150	8	1.20 max.	700	490-2634-1-ND	.08	.69	5.52	10,000	24.15/M	LQG15HS82NJ02D
100	±5%	100	150	8	1.25 max.	600	490-2635-1-ND	.08	.69	5.52	10,000	24.15/M	LQG15HSR10J02D
120	±5%	100	150	8	1.30 max.	600	490-2636-1-ND	.08	.69	5.52	10,000	24.15/M	LQG15HSR12J02D
150	±5%	100	140	8	2.99 max.	550	490-2637-1-ND	.09	.76	6.04	10,000	26.00/M	LQG15HSR15J02D
180	±5%	100	130	8	3.38 max.	500	490-2638-1-ND	.09	.76	6.04	10,000	26.43/M	LQG15HSR18J02D
220	±5%	100	120	8	3.77 max.	450	490-2639-1-ND	.09	.76	6.04	10,000	26.00/M	LQG15HSR22J02D
270	±5%	100	110	8	4.94 max.	400	490-2640-1-ND	.09	.76	6.04	10,000	26.00/M	LQG15HSR27J02D
LQM18F Series — Case 0603													
1000	±20%	1	150	—	0.20±30%	120	490-4022-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN1R0M00D
2200	±20%	1	120	—	0.40±30%	80	490-4023-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN2R2M00D
4700	±20%	1	80	—	0.60±30%	50	490-4024-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN4R7M00D
10000	±20%	1	50	—	0.90±30%	30	490-4025-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN100M00D
LQM18N Series — Case 0603													
47	±20%	50	50	10	0.30 max.	260	490-1110-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NN47NM00D
68	±20%	50	50	10	0.30 max.	250	490-4032-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NN68NM00D
100	±10%	25	50	15	0.50 max.	240	490-1111-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NNR10K00D
150	±10%	25	50	15	0.60 max.	180	490-4033-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR15K00D
220	±10%	25	50	15	0.80 max.	150	490-4034-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR22K00D
330	±10%	25	35	15	0.85 max.	125	490-4035-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR33K00D
470	±10%	25	35	15	1.35 max.	105	490-4036-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR47K00D
680	±10%	25	35	15	1.70 max.	90	490-4037-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR68K00D
1000	±10%	10	25	35	0.60 max.	75	490-1112-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN1R0K00D
1500	±10%	10	25	35	0.80 max.	60	490-4038-1-ND	.26	2.18	17.40	4,000	76.00/M	LQM18NN1R5K00D
2200	±10%	10	15	35	1.15 max.	50	490-1113-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN2R2K00D
LQG18H Series — Case 0603													
1.2	±0.3nH	100	500	12	0.10 max.	6,000	490-1099-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N2S00D
1.5	±0.3nH	100	500	12	0.10 max.	6,000	490-1100-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N5S00D
1.8	±0.3nH	100	500	12	0.10 max.	6,000	490-1101-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N8S00D
2.2	±0.3nH	100	500	12	0.10 max.	6,000	490-1102-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N2S00D
2.7	±0.3nH	100	500	12	0.15 max.	6,000	490-1103-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N7S00D
3.3	±0.3nH	100	500	12	0.15 max.	6,000	490-1104-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N3S00D
3.9	±0.3nH	100	450	12	0.15 max.	6,000	490-1105-1-ND	.25	2.05	16.40	4,000	72.00/M	LQG18HN3N9S00D
4.7	±0.3nH	100	450	12	0.20 max.	6,000	490-1106-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN4N7S00D
5.6	±0.3nH	100	430	12	0.20 max.	5,000	490-1107-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN5N6S00D
6.8	±5%	100	430	12	0.25 max.	5,000	490-1108-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN6N8J00D
8.2	±5%	100	400	12	0.25 max.	4,000	490-1109-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN8N2J00D
LQM21D Series — Case 0805													
4.7µH	±30%	1	30	—	0.30 max.	35	490-1120-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN4R7N00D
10µH	±30%	1	15	—	0.50 max.	24	490-1121-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN100N00D
22µH	±30%	1	13	—	0.65 max.	16	490-1123-1-ND	.26	2.19	17.52	3,000	76.65/M	LQM21DN220N00L
LQM21F Series — Case 0805													
1.0µH	±30%	1	220	—	0.20±30%	105	490-4026-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM21FN1R0N00D
2.2µH	±30%	1	150	—	0.28±30%	70	490-4027-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM21FN2R2N00D
4.7µH	±20%	1	120	—	0.35±30%	25	490-4028-1-ND	.18	1.51	12.04	3,000	53.00/M	LQM21FN4R7M70L
10µH	±20%	1	100	—	0.60±30%	15	490-4029-1-ND	.18	1.51	12.04	3,000	53.00/M	LQM21FN100M70L
10µH	±30%	1	60	—	0.50±30%	15	490-1122-1-ND	.16	1.33	10.64	3,000	46.55/M	LQM21FN100N00L
22µH	±30%	1	13	—	0.35±30%	15	490-4030-1-ND	.16	1.33	10.64	3,000	47.00/M	LQM21FN220N00L
47µH	±30%	1	7	—	0.60±30%	7.5	490-4031-1-ND	.16	1.33	10.64	3,000	47.00/M	LQM21FN470N00L
LQM21N Series — Case 0805													
0.1µH	±10%	25	250	20	0.26 max.	340	490-1114-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR10K10D
0.22µH	±10%	25	250	20	0.38 max.	220	490-1115-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR22K10D
0.47µH	±10%	25	200	25	0.57 max.	150	490-1116-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR47K10D
1.0µH	±10%	10	50	45	0.40 max.	107	490-1117-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R0K10D
1.5µH	±10%	10	50	45	0.50 max.	87	490-1118-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R5K10D
2.2µH	±10%	10	30	45	0.63 max.	71	490-1119-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN2R2K10D
LQM21P Series — Case 0805													
0.47µH	±20%	1	1100	—	0.12±25%	100	490-4991-1-ND	.34	2.82	22.56	4,000	99.00/M	LQM21PNR47MC0D
1.0µH	±20%	1	800	—	0.19±25%	90	490-4992-1-ND	.34	2.82	22.56	4,000	99.00/M	LQM21PN1R0MC0D
1.5µH	±20%	1	700	—	0.26±25%	70	490-4993-1-ND	.34	2.82	22.56	4,000	99.00/M	LQM21PN1R5MC0D
2.2µH	±20%	1	600	—	0.34±25%	50	490-4994-1-ND	.34	2.82	22.56	4,000	99.00/M	LQM21PN2R2MC0D
LQM2H Series — Case 1008													
0.47µH	±20%	1	1800	—	0.04±25%	100	490-5111-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPNR47MG0L
1.0µH	±20%	1	1600	—	0.055±25%	60	490-5112-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPN1R0MG0L
1.5µH	±20%	1	1500	—	0.07±25%	50	490-5113-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPN1R5MG0L
2.2µH	±20%	1	1300	—	0.08±25%	40	490-5114-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPN2R2MG0L
3.3µH	±20%	1	1200	—	0.10±25%	30	490-5115-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPN3R3MG0L
4.7µH	±20%	1	1100	—	0.11±25%	25	490-5116-1-ND	.41	3.41	27.28	3,000	119.00/M	LQM2HPN4R7MG0L
LQM31P Series — Case 1206													
1.0µH	±20%	1	1200	—	0.12±25%	60	490-4039-1-ND	.46	3.82	30.56	3,000	134.00/M	LQM31PN1R0M00L

◊ For Tape and Reel part number, change 1-ND to 2-ND.

Dimensions in mm

LQM18F Series

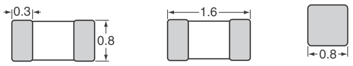

Special ferrite material, whose inductance change caused by bias current is small, enables large rated current of 50mA at 10 micro H. Magnetically shielded structure enables good crosstalk characteristics.

LQM18N Series

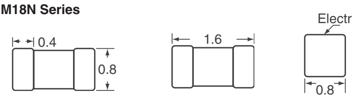

Magnetically shielded chip coils were developed by using original multilayer process technology and magnetic materials. Compact size is suitable for high density mounting. Shielded construction is not affected by interference from peripheral components.

LQG18H Series

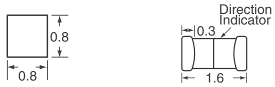

Designed to realize stable characteristics in high frequency range applying integrated multilayer process. Monolithic air core.

LQM21D Series

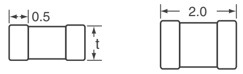

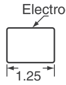

Part No.	t
LQM21DN4R7N00D LQM21DN100N00D	0.85 ± 0.2
LQM21DN220N00L	1.25 ± 0.2

Consists of magnetically shielded chip inductors. It has less than half the DC resistance of our conventional monolithic chip inductors as well as high inductance. Monolithic design.

LQM21F Series

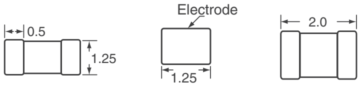

Suitable for power line choke because of its excellent direct current characteristics. The series has larger rated current (60mA at 10 micro H) than conventional rated current. Monolithic ferrite core.

LQM21N Series

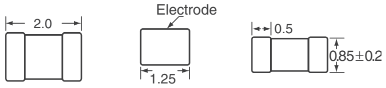

Consists of magnetically shielded chip inductors developed using Murata's original multilayer process technology and magnetic materials. The miniature size of 2.0mm x 1.25mm enables compact design of electric equipment.

LQM21P Series

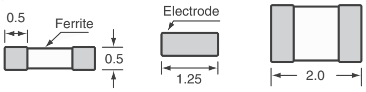

Features: • Small size in 2.0x1.25mm • Low profile • Large rated current of 1100mA • Magnetically shielded structure • Outstanding solder heat resistance, either flow or reflow soldering methods can be employed
Applications: • DC-DC converter circuits for mobile equipment

LQM2H Series

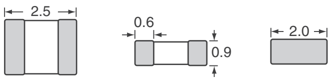

Features: • Small size of 2.5mm x 2.0mm • Flow/Reflow solderable • Low profile: 1.0mm max. • Large rated current: 1600mA, 1.0uH • Low DC resistance • Magnetically shielded structure
Applications: • DC-DC converters of mobile devices

LQM31P Series

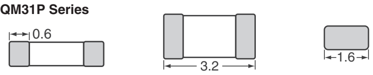

Features low DC resistance and magnetically shielded structure. Outstanding solder heat resistance. Either flow or reflow soldering methods can be employed.

Chip Coils Wound Type SMD

Dimensions in mm

LQW15A Series

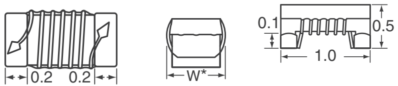

*W: 0.6±0.1 (1.5-22nH),
0.5±0.1 (27-56nH)

Consists of air core chip coil using a miniature alumina core. Has high Q value and high self resonant frequency in high frequency range. Suitable for high frequency circuits which are used in telecommunication equipment.

LQW18A Series

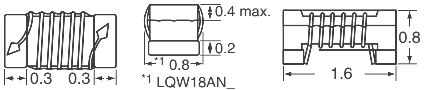

*1 LQW18AN_
10:0.8±0.3

Horizontal winding structure enables tight inductance. High self resonant frequency realizes high-Q value and stable inductance at high frequency. Low DC resistance design is ideal for low loss, high output and low power consumption.

LQH2MC_02 Series

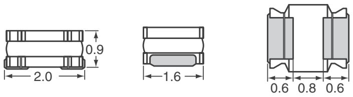

Wire wound type with low profile (0.95mm) and wide inductance range.

LQH2MC_52 Series

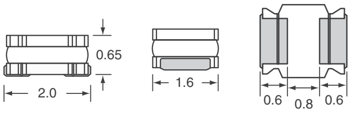

Features: • Wire wound type with 0.70mm maximum ultra low-profile • Rated current: 595mA (1.0μH) • Inductance range: 1.0μH ~ 10μH
Applications: • DC-DC converter

LQY33P Series

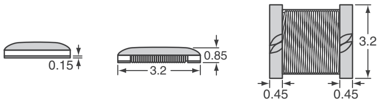

Small size with large rated current (2.2μH). Small inductance change plus bias current enables high performance for DC-DC converter. Magnetically shielded structure. Low profile.

LQH3N Series

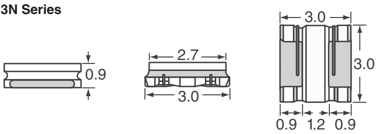

Features: • Small size of 3.0mm x 3.0mm • Low profile: 1.0mm max. • Reflow solderable • Large rated current: 1525mA, 1.0μH • Low DC resistance • Magnetically shielded structure
Applications: • DC-DC converters of mobile devices

Inductance	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel◊ Qty.	Pricing	Murata Part No.
LQW15A Series — Case 0402														
1.5nH	±0.5nH	100	1000	10†	0.03 max.	18 GHz	490-1136-1-ND	.38	.32	.26	490-1136-2-ND	10,000	111.30/M	LQW15AN1N5D00D
2.7nH	±0.5nH	100	850	20†	0.05 max.	15 GHz	490-1137-1-ND	.38	.32	.26	490-1137-2-ND	10,000	111.30/M	LQW15AN2N7D00D
4.3nH	±0.2nH	100	750	25†	0.07 max.	10 GHz	490-1138-1-ND	.40	.34	.27	490-1138-2-ND	10,000	117.08/M	LQW15AN4N3C00D
4.7nH	±0.2nH	100	750	25†	0.07 max.	8 GHz	490-1139-1-ND	.40	.34	.27	490-1139-2-ND	10,000	117.08/M	LQW15AN4N7C00D
5.1nH	±0.5nH	100	600	25†	0.12 max.	8 GHz	490-1140-1-ND	.38	.32	.26	490-1140-2-ND	10,000	111.30/M	LQW15AN5N1D00D
6.2nH	±0.5nH	100	700	25†	0.09 max.	8 GHz	490-1141-1-ND	.38	.32	.26	490-1141-2-ND	10,000	111.30/M	LQW15AN6N2D00D
6.8nH	±5%	100	700	25†	0.09 max.	6 GHz	490-1142-1-ND	.38	.32	.26	490-1142-2-ND	10,000	111.30/M	LQW15AN6N8J00D
7.5nH	±5%	100	570	25†	0.13 max.	6 GHz	490-1143-1-ND	.38	.32	.26	490-1143-2-ND	10,000	111.30/M	LQW15AN7N5J00D
8.2nH	±5%	100	540	25†	0.14 max.	5.5 GHz	490-1144-1-ND	.38	.32	.26	490-1144-2-ND	10,000	111.30/M	LQW15AN8N2J00D
9.1nH	±5%	100	540	25†	0.14 max.	5.5 GHz	490-1145-1-ND	.38	.32	.26	490-1145-2-ND	10,000	111.30/M	LQW15AN9N1J00D
10nH	±5%	100	500	25†	0.17 max.	5.5 GHz	490-1146-1-ND	.38	.32	.26	490-1146-2-ND	10,000	111.30/M	LQW15AN10NJ00D
12nH	±5%	100	500	30†	0.14 max.	5.5 GHz	490-1147-1-ND	.38	.32	.26	490-1147-2-ND	10,000	111.30/M	LQW15AN12NJ00D
15nH	±5%	100	460	30†	0.16 max.	5 GHz	490-1148-1-ND	.38	.32	.26	490-1148-2-ND	10,000	111.30/M	LQW15AN15NJ00D
18nH	±5%	100	370	25†	0.27 max.	4.5 GHz	490-1149-1-ND	.38	.32	.26	490-1149-2-ND	10,000	111.30/M	LQW15AN18NJ00D
22nH	±5%	100	310	25†	0.30 max.	4 GHz	490-1150-1-ND	.38	.32	.26	490-1150-2-ND	10,000	111.30/M	LQW15AN22NJ00D
27nH	±5%	100	280	25†	0.52 max.	3.5 GHz	490-1151-1-ND	.38	.32	.26	490-1151-2-ND	10,000	111.30/M	LQW15AN27NJ00D
33nH	±5%	100	260	25†	0.63 max.	3.2 GHz	490-1152-1-ND	.38	.32	.26	490-1152-2-ND	10,000	111.30/M	LQW15AN33NJ00D
39nH	±5%	100	250	25†	0.70 max.	3 GHz	490-1153-1-ND	.38	.32	.26	490-1153-2-ND	10,000	111.30/M	LQW15AN39NJ00D
47nH	±5%	100	210	25§	1.08 max.	2.9 GHz	490-1154-1-ND	.38	.32	.26	490-1154-2-ND	10,000	111.30/M	LQW15AN47NJ00D
56nH	±5%	100	200	25§	1.17 max.	2.8 GHz	490-1155-1-ND	.38	.32	.26	490-1155-2-ND	10,000	111.30/M	LQW15AN56NJ00D
82nH	±5%	100	130	20▲	2.24 max.	2.3 GHz	490-1157-1-ND	.38	.32	.26	490-1157-2-ND	10,000	111.30/M	LQW15AN82NJ00D
100nH	±5%	100	120	20▲	2.52 max.	1.5 GHz	490-4090-1-ND	.38	.32	.26	490-4090-2-ND	10,000	111.00/M	LQW15ANR10J00D
120nH	±5%	100	110	20▲	2.66 max.	1.0 GHz	490-4091-1-ND	.38	.32	.26	490-4091-2-ND	10,000	111.00/M	LQW15ANR12J00D
LQW18A Series — Case 0603														
2.2nH	±0.5nH	100	700	16†	0.049 max.	6,000 MHz	490-1158-1-ND	.39	.33	.27	490-1158-2-ND	4,000	115.15/M	LQW18AN2N2D00D
3.6nH	±0.5nH	100	850	25†	0.059 max.	6,000 MHz	490-1159-1-ND	.39	.33	.27	490-1159-2-ND	4,000	115.15/M	LQW18AN3N6D00D
3.9nH	±0.5nH	100	850	35†	0.059 max.	6,000 MHz	490-1160-1-ND	.39	.33	.27	490-1160-2-ND	4,000	115.15/M	LQW18AN3N9D00D
4.3nH	±0.5nH	100	850	35†	0.059 max.	6,000 MHz	490-1161-1-ND	.39	.33	.27	490-1161-2-ND	4,000	115.15/M	LQW18AN4N3D00D
4.7nH	±0.5nH	100	850	35†	0.059 max.	6,000 MHz	490-1162-1-ND	.39	.33	.27	490-1162-2-ND	4,000	115.15/M	LQW18AN4N7D00D
5.6nH	±0.5nH	100	750	35†	0.082 max.	6,000 MHz	490-1164-1-ND	.39	.33	.27	490-1164-2-ND	4,000	115.15/M	LQW18AN5N6D00D
6.2nH	±0.5nH	100	750	35†	0.082 max.	6,000 MHz	490-1163-1-ND	.39	.33	.27	490-1163-2-ND	4,000	115.15/M	LQW18AN6N2D00D
6.8nH	+0.5nH	100	750	35†	0.082 max.	6,000 MHz	490-1165-1-ND	.39	.33	.27	490-1165-2-ND	4,000	115.15/M	LQW18AN6N8D00D
7.5nH	±0.5nH	100	750	35†	0.082 max.	6,000 MHz	490-1166-1-ND	.39	.33	.27	490-1166-2-ND	4,000	115.15/M	LQW18AN7N5D00D
8.2nH	±0.5nH	100	650	35†	0.11 max.	6,000 MHz	490-1167-1-ND	.39	.33	.27	490-1167-2-ND	4,000	115.15/M	LQW18AN8N2D00D
8.7nH	±0.5nH	100	650	35†	0.11 max.	6,000 MHz	490-1168-1-ND	.39	.33	.27	490-1168-2-ND	4,000	115.15/M	LQW18AN8N7D00D
10nH	±5%	100	650	35†	0.11 max.	6,000 MHz	490-1169-1-ND	.39	.33	.27	490-1169-2-ND	4,000	115.15/M	LQW18AN10NJ00D
12nH	±5%	100	600	35†	0.13 max.	6,000 MHz	490-1170-1-ND	.39	.33	.27	490-1170-2-ND	4,000	115.15/M	LQW18AN12NJ00D
15nH	±5%	100	600	40†	0.13 max.	6,000 MHz	490-1171-1-ND	.39	.33	.27	490-1171-2-ND	4,000	115.15/M	LQW18AN15NJ00D
18nH	±5%	100	550	40†	0.16 max.	5,500 MHz	490-1172-1-ND	.39	.33	.27	490-1172-2-ND	4,000	115.15/M	LQW18AN18NJ00D
22nH	±5%	100	500	40†	0.17 max.	4,600 MHz	490-1173-1-ND	.39	.33	.27	490-1173-2-ND	4,000	115.15/M	LQW18AN22NJ00D
27nH	±5%	100	440	40†	0.21 max.	3,700 MHz	490-1174-1-ND	.39	.33	.27	490-1174-2-ND	4,000	115.15/M	LQW18AN27NJ00D
33nH	±5%	100	420	40†	0.23 max.	3,200 MHz	490-1175-1-ND	.39	.33	.27	490-1175-2-ND	4,000	115.15/M	LQW18AN33NJ00D
39nH	±5%	100	400	40†	0.26 max.	2,800 MHz	490-1176-1-ND	.39	.33	.27	490-1176-2-ND	4,000	115.15/M	LQW18AN39NJ00D
56nH	±5%	100	360	38§	0.35 max.	2,400 MHz	490-1177-1-ND	.39	.33	.27	490-1177-2-ND	4,000	115.15/M	LQW18AN56NJ00D
68nH	±5%	100	340	38§	0.38 max.	2,200 MHz	490-1178-1-ND	.39	.33	.27	490-1178-2-ND	4,000	115.15/M	LQW18AN68NJ00D
100nH	±5%	100	220	34▲	0.68 max.	1,800 MHz	490-1179-1-ND	.39	.33	.27	490-1179-2-ND	4,000	115.15/M	LQW18ANR10J00D
120nH	±5%	100	180	32▲	1.3 max.	1,600 MHz	490-1180-1-ND	.39	.33	.27	490-1180-2-ND	4,000	115.15/M	LQW18ANR12J00D
270nH	±5%	100	110	30‡	3.4 max.	960 MHz	490-1181-1-ND	.43	.36	.29	490-1181-2-ND	4,000	126.00/M	LQW18ANR27J00D
330nH	±5%	100	85	30‡	5.5 max.	800 MHz	490-1182-1-ND	.43	.36	.29	490-1182-2-ND	4,000	126.00/M	LQW18ANR33J00D
390nH	±5%	100	80	30‡	6.2 max.	800 MHz	490-1183-1-ND	.43	.36	.29	490-1183-2-ND	4,000	126.00/M	LQW18ANR39J00D
470nH	±5%	100	75	30‡	7.0 max.	700 MHz	490-1184-1-ND	.43	.36	.29	490-1184-2-ND	4,000	126.00/M	LQW18ANR47J00D
LQH2MC_02 Series — Case 0806														
1000nH	±20%	1	485	—	0.3 ±30%	100 MHz	490-4040-1-ND	.44	.37	.30	490-4040-2-ND	3,000	128.00/M	LQH2MCN1R0M02L
1500nH	±20%	1	445	—	0.4 ±30%	95 MHz	490-4041-1-ND	.44	.37	.30	490-4041-2-ND	3,000	128.00/M	LQH2MCN1R5M02L
2200nH	±20%	1	425	—	0.48 ±30%	70 MHz	490-4042-1-ND	.44	.37	.30	490-4042-2-ND	3,000	128.00/M	LQH2MCN2R2M02L
3300nH	±20%	1	375	—	0.6 ±30%	65 MHz	490-4043-1-ND	.44	.37	.30	490-4043-2-ND	3,000	128.00/M	LQH2MCN3R3M02L
4700nH	±20%	1	300	—	0.8 ±30%	60 MHz	490-4044-1-ND	.44	.37	.30	490-4044-2-ND	3,000	128.00/M	LQH2MCN4R7M02L
6800nH	±20%	1	255	—	1.0 ±30%	55 MHz	490-4045-1-ND	.44	.37	.30	490-4045-2-ND	3,000	128.00/M	LQH2MCN6R8M02L
10000nH	±10%	1	225	—	1.2 ±30%	48 MHz	490-4046-1-ND	.44	.37	.30	490-4046-2-ND	3,000	128.00/M	LQH2MCN100K02L
15000nH	±10%	1	200	—	1.6 ±30%	40 MHz	490-4047-1-ND	.44	.37	.30	490-4047-2-ND	3,000	128.00/M	LQH2MCN150K02L
22000nH	±10%	1	185	—	2.1 ±30%	30 MHz	490-4048-1-ND	.44	.37	.30	490-4048-2-ND	3,000	128.00/M	LQH2MCN220K02L
33000nH	±10%	1	160	—	2.8 ±30%	28 MHz	490-4049-1-ND	.44	.37	.30	490-4049-2-ND	3,000	128.00/M	LQH2MCN330K02L
47000nH	±10%	1	120	—	5.1 ±30%	18 MHz	490-4050-1-ND	.44	.37	.30	490-4050-2-ND	3,000	128.00/M	LQH2MCN470K02L
68000nH	±10%	1	100	—	6.6 ±30%	14 MHz	490-4051-1-ND	.44	.37	.30	490-4051-2-ND	3,000	128.00/M	LQH2MCN680K02L
LQH2MC_52 Series — Case 0806														
1.0μH	±20%	1	595	—	0.25 ±30%	215 MHz	490-4984-1-ND	.50	.42	.34	490-4984-2-ND	3,000	146.00/M	LQH2MCN1R0M52L
1.5μH	±20%	1	540	—	0.33 ±30%	165 MHz	490-4985-1-ND	.50	.42	.34	490-4985-2-ND	3,000	146.00/M	LQH2MCN1R5M52L
2.2μH	±20%	1	500	—	0.42 ±30%	125 MHz	490-4986-1-ND	.50	.42	.34	490-4986-2-ND	3,000	146.00/M	LQH2MCN2R2M52L
3.3μH	±20%	1	360	—	0.74 ±30%	110 MHz	490-4987-1-ND	.50	.42	.34	490-4987-2-ND	3,000	146.00/M	LQH2MCN3R3M52L
4.7μH	±20%	1	335	—	0.91 ±30%	90 MHz	490-4988-1-ND	.50	.42	.34	490-4988-2-ND	3,000	146.00/M	LQH2MCN4R7M52L
6.8μH	±20%	1	285	—	1.23 ±30%	65 MHz	490-4989-1-ND	.50	.42	.34	490-4989-2-ND	3,000	146.00/M	LQH2MCN6R8M52L

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz ‡ Test Frequency at 100MHz ★ Test Frequency at 796kHz
◊ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Chip Coils Wound Type SMD *(Cont.)*

Dimensions in mm Digi-Reel® RoHS

LQH3NP_J0 Series *NEW!*

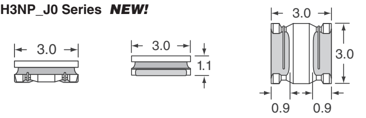

Features: • Large Rated Current: Based on Inductance Change: 1400mA at 1.0µH; Based on Temperature Rise: 2050mA at 1.0µH • Inductance Range: 1.0µH ~ 100µH • Magnetically shielded structure • Lead-free reflow soldering available
Applications: • DC-DC converter

LQH32C_23 Series

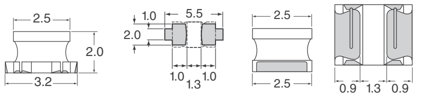

Consists of miniature chip coils with low DC resistance, high current capacity, and high impedance characteristics. Features are possible by the development of Murata's automatic winding techniques. Excellent for use as power supply line choke coils.

LQH32C_53 Series

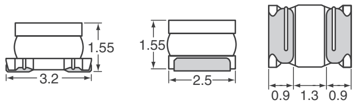

Consists of miniature chip coils with low DC resistance, high current capacity and high impedance characteristics. Excellent for use as choke coils in DC power supply circuits. High rated current and low profile with a maximum height of 1.7mm

LQH32M Series

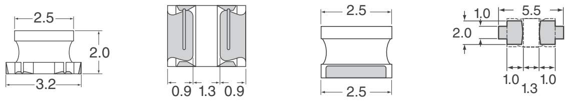

Consists of miniature chip inductors wound on a special ferrite core. High Q value at high frequency and low DC resistance.

LQH32P_N0 Series *NEW!*

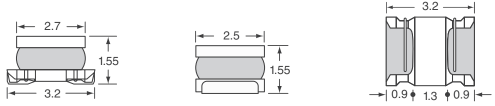

Features: • Large allowable DC current of 2550mA (0.47µH) • Inductance Range: 0.47µH ~ 22µH • Magnetically shielded structure • Lead-free reflow soldering available
Applications: • DSC, DVC and 3.5/2.5" HDD • DC-DC converter for communication module of WiMAX

Induc-tance	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel◊		Murata Part No.
								1	10	100		Qty.	Pricing	
10µH	±20%	1	200	—	2.27 ±30%	60 MHz	490-4990-1-ND	.50	.42	.34	490-4990-2-ND	3,000	146.00/M	LQH2MCN100M52L
LQY33P Series — Case 1212														
2200nH	±20%	1	720	—	0.36 ±30%	270 MHz	490-4052-1-ND	.72	.60	.48	490-4052-2-ND	1,500	209.00/M	LQY33PN2R2M02L
LQH3N Series — Case 1212														
1.0µH	±30%	1	1525	—	0.08 ±20%	160 MHz	490-5117-1-ND	.52	.43	.35	490-5117-2-ND	1,500	150.00/M	LQH3NPN1R0NG0L
1.5µH	±30%	1	1470	—	0.10 ±20%	130 MHz	490-5118-1-ND	.52	.43	.35	490-5118-2-ND	1,500	150.00/M	LQH3NPN1R5NG0L
2.2µH	±30%	1	1270	—	0.14 ±20%	100 MHz	490-5119-1-ND	.52	.43	.35	490-5119-2-ND	1,500	150.00/M	LQH3NPN2R2NG0L
3.3µH	±30%	1	1130	—	0.18 ±20%	75 MHz	490-5120-1-ND	.52	.43	.35	490-5120-2-ND	1,500	150.00/M	LQH3NPN3R3NG0L
4.7µH	±30%	1	925	—	0.26 ±20%	60 MHz	490-5121-1-ND	.52	.43	.35	490-5121-2-ND	1,500	150.00/M	LQH3NPN4R7NG0L
6.8µH	±30%	1	710	—	0.45 ±20%	48 MHz	490-5122-1-ND	.52	.43	.35	490-5122-2-ND	1,500	150.00/M	LQH3NPN6R8NG0L
10µH	±30%	1	630	—	0.57 ±20%	45 MHz	490-5123-1-ND	.52	.43	.35	490-5123-2-ND	1,500	150.00/M	LQH3NPN100NG0L
15µH	±30%	1	475	—	0.91 ±20%	35 MHz	490-5124-1-ND	.52	.43	.35	490-5124-2-ND	1,500	150.00/M	LQH3NPN150NG0L
22µH	±30%	1	430	—	1.1 ±20%	25 MHz	490-5125-1-ND	.52	.43	.35	490-5125-2-ND	1,500	150.00/M	LQH3NPN220NG0L
33µH	±30%	1	345	—	2.1 ±20%	24 MHz	490-5126-1-ND	.52	.43	.35	490-5126-2-ND	1,500	150.00/M	LQH3NPN330NG0L
47µH	±30%	1	270	—	3.0 ±20%	19 MHz	490-5127-1-ND	.52	.43	.35	490-5127-2-ND	1,500	150.00/M	LQH3NPN470NG0L
68µH	±30%	1	235	—	4.2 ±20%	16 MHz	490-5128-1-ND	.52	.43	.35	490-5128-2-ND	1,500	150.00/M	LQH3NPN680NG0L
100µH	±30%	1	165	—	8.0 ±20%	10 MHz	490-5129-1-ND	.52	.43	.35	490-5129-2-ND	1,500	150.00/M	LQH3NPN101NG0L
150µH	±30%	1	145	—	11.0 ±20%	10 MHz	490-5130-1-ND	.52	.43	.35	490-5130-2-ND	1,500	150.00/M	LQH3NPN151NG0L
220µH	±30%	1	130	—	14.0 ±20%	8.5 MHz	490-5131-1-ND	.52	.43	.35	490-5131-2-ND	1,500	150.00/M	LQH3NPN221NG0L
250µH	±30%	1	130	—	15.0 ±20%	8.0 MHz	490-5132-1-ND	.52	.43	.35	490-5132-2-ND	1,500	150.00/M	LQH3NPN251NG0L
NEW! LQH3NP_J0 Series — Case 1212 NEW!														
1.0µH	±30%	1	1620	—	.040 ±20%	140 MHz	490-5342-1-ND	.52	.43	.35	490-5342-2-ND	1,000	150.00	LQH3NPN1R0NJ0L
1.5µH	±30%	1	1500	—	.055 ±20%	90 MHz	490-5343-1-ND	.52	.43	.35	490-5343-2-ND	1,000	150.00	LQH3NPN1R5NJ0L
2.2µH	±30%	1	1460	—	.069 ±20%	90 MHz	490-5344-1-ND	.52	.43	.35	490-5344-2-ND	1,000	150.00	LQH3NPN2R2NJ0L
3.3µH	±30%	1	1270	—	.105 ±20%	70 MHz	490-5345-1-ND	.52	.43	.35	490-5345-2-ND	1,000	150.00	LQH3NPN3R3NJ0L
4.7µH	±30%	1	1120	—	.130 ±20%	65 MHz	490-5346-1-ND	.52	.43	.35	490-5346-2-ND	1,000	150.00	LQH3NPN4R7NJ0L
6.8µH	±30%	1	850	—	.210 ±20%	45 MHz	490-5347-1-ND	.52	.43	.35	490-5347-2-ND	1,000	150.00	LQH3NPN6R8NJ0L
10µH	±30%	1	710	—	.300 ±20%	35 MHz	490-5348-1-ND	.52	.43	.35	490-5348-2-ND	1,000	150.00	LQH3NPN100NJ0L
15µH	±30%	1	590	—	.440 ±20%	30 MHz	490-5349-1-ND	.52	.43	.35	490-5349-2-ND	1,000	150.00	LQH3NPN150NJ0L
22µH	±20%	1	510	—	.600 ±20%	25 MHz	490-5350-1-ND	.52	.43	.35	490-5350-2-ND	1,000	150.00	LQH3NPN220MJ0L
33µH	±20%	1	410	—	.900 ±20%	20 MHz	490-5351-1-ND	.52	.43	.35	490-5351-2-ND	1,000	150.00	LQH3NPN330MJ0L
47µH	±20%	1	350	—	1.3 ±20%	15 MHz	490-5352-1-ND	.52	.43	.35	490-5352-2-ND	1,000	150.00	LQH3NPN470MJ0L
LQH32C_23 Series — Case 1210														
1.0µH	±20%	1	800	—	0.09 ±30%	96 MHz	490-2493-1-ND	.39	.33	.26	490-2493-2-ND	2,000	113.05/M	LQH32CN1R0M23L
2.2µH	±20%	1	600	—	0.13 ±30%	64 MHz	490-2494-1-ND	.39	.33	.26	490-2494-2-ND	2,000	113.05/M	LQH32CN2R2M23L
4.7µH	±20%	1	450	—	0.2 ±30%	43 MHz	490-2495-1-ND	.39	.33	.26	490-2495-2-ND	2,000	113.05/M	LQH32CN4R7M23L
10µH	±10%	1	300	—	0.44 ±30%	26 MHz	490-2496-1-ND	.39	.33	.26	490-2496-2-ND	2,000	113.05/M	LQH32CN100K23L
47µH	±10%	1	170	—	1.3 ±30%	15 MHz	490-2497-1-ND	.39	.33	.26	490-2497-2-ND	2,000	113.05/M	LQH32CN470K23L
220µH	±10%	1	70	—	8.4 ±30%	6.8 MHz	490-4066-1-ND	.39	.33	.26	490-4066-2-ND	2,000	113.00/M	LQH32CN221K23L
330µH	±10%	1	60	—	10 ±30%	5.6 MHz	490-2498-1-ND	.39	.33	.26	490-2498-2-ND	2,000	113.05/M	LQH32CN331K23L
390µH	±10%	1	60	—	17 ±30%	5 MHz	490-4067-1-ND	.39	.33	.26	490-4067-2-ND	2,000	113.00/M	LQH32CN391K23L
470µH	±10%	1kHz	60	—	19 ±30%	5 MHz	490-2499-1-ND	.39	.33	.26	490-2499-2-ND	2,000	113.05/M	LQH32CN471K23L
560µH	±10%	1kHz	60	—	22 ±30%	5 MHz	490-4068-1-ND	.39	.33	.26	490-4068-2-ND	2,000	113.00/M	LQH32CN561K23L
LQH32C_53 Series — Case 1210														
1.0µH	±20%	1	1000	—	0.060 ±30%	100 MHz	490-4055-1-ND	.42	.36	.29	490-4055-2-ND	2,000	123.00/M	LQH32CN1R0M53L
2.2µH	±20%	1	790	—	0.097 ±30%	64 MHz	490-4056-1-ND	.42	.36	.29	490-4056-2-ND	2,000	123.00/M	LQH32CN2R2M53L
4.7µH	±20%	1	650	—	0.15 ±30%	43 MHz	490-4057-1-ND	.42	.36	.29	490-4057-2-ND	2,000	123.00/M	LQH32CN4R7M53L
6.8µH	±20%	1	540	—	0.25 ±30%	32 MHz	490-4058-1-ND	.42	.36	.29	490-4058-2-ND	2,000	123.00/M	LQH32CN6R8M53L
10µH	±10%	1	450	—	0.30 ±30%	26 MHz	490-4059-1-ND	.42	.36	.29	490-4059-2-ND	2,000	123.00/M	LQH32CN100K53L
15µH	±10%	1	300	—	0.58 ±30%	26 MHz	490-4060-1-ND	.42	.36	.29	490-4060-2-ND	2,000	123.00/M	LQH32CN150K53L
22µH	±10%	1	250	—	0.71 ±30%	19 MHz	490-4061-1-ND	.42	.36	.29	490-4061-2-ND	2,000	123.00/M	LQH32CN220K53L
33µH	±10%	1	200	—	1.1 ±30%	17 MHz	490-4062-1-ND	.42	.36	.29	490-4062-2-ND	2,000	123.00/M	LQH32CN330K53L
47µH	±10%	1	170	—	1.3 ±30%	15 MHz	490-4063-1-ND	.42	.36	.29	490-4063-2-ND	2,000	123.00/M	LQH32CN470K53L
68µH	±10%	1	130	—	2.2 ±30%	12 MHz	490-4064-1-ND	.42	.36	.29	490-4064-2-ND	2,000	123.00/M	LQH32CN680K53L
100µH	±10%	1	100	—	3.5 ±30%	10 MHz	490-4065-1-ND	.42	.36	.29	490-4065-2-ND	2,000	123.00/M	LQH32CN101K53L
LQH32M Series — Case 1210														
1.0µH	±20%	1	445	20	0.5 max.	100 MHz	490-2500-1-ND	.39	.33	.26	490-2500-2-ND	2,000	113.05/M	LQH32MN1R0M23L
2.2µH	±10%	1	370	20	0.8 max.	50 MHz	490-2501-1-ND	.39	.33	.26	490-2501-2-ND	2,000	113.05/M	LQH32MN2R2K23L
4.7µH	±10%	1	270	20	1.2 max.	31 MHz	490-2502-1-ND	.39	.33	.26	490-2502-2-ND	2,000	113.05/M	LQH32MN4R7K23L
6.8µH	±10%	1	240	20	1.5 max.	25 MHz	490-2503-1-ND	.39	.33	.26	490-2503-2-ND	2,000	113.05/M	LQH32MN6R8K23L
8.2µH	±10%	1	225	20	1.6 max.	23 MHz	490-2504-1-ND	.39	.33	.26	490-2504-2-ND	2,000	113.05/M	LQH32MN8R2K23L
10µH	±5%	1	190	35	1.8 max.	20 MHz	490-2505-1-ND	.39	.33	.26	490-2505-2-ND	2,000	113.05/M	LQH32MN100J23L
22µH	±5%	1	150	35	2.8 max.	14 MHz	490-2506-1-ND	.39	.33	.26	490-2506-2-ND	2,000	113.05/M	LQH32MN220J23L
33µH	±5%	1	115	40	3.5 max.	12 MHz	490-2507-1-ND	.39	.33	.26	490-2507-2-ND	2,000	113.05/M	LQH32MN330J23L
47µH	±5%	1	100	40	4.3 max.	11 MHz	490-2508-1-ND	.39	.33	.26	490-2508-2-ND	2,000	113.05/M	LQH32MN470J23L
150µH	±5%	1	70	40★	9.3 max.	7 MHz	490-2509-1-ND	.39	.33	.26	490-2509-2-ND	2,000	113.05/M	LQH32MN151J23L
270µH	±5%	1	65	40★	12.5 max.	5 MHz	490-2510-1-ND	.39	.33	.26	490-2510-2-ND	2,000	113.05/M	LQH32MN271J23L
330µH	±5%	1	65	40★	13.0 max.	5 MHz	490-2511-1-ND	.39	.33	.26	490-2511-2-ND	2,000	113.05/M	LQH32MN331J23L
390µH	±5%	1	50	50★	22.0 max.	5 MHz	490-2512-1-ND	.39	.33	.26	490-2512-2-ND	2,000	113.05/M	LQH32MN391J23L
560µH	±5%	1kHz	40	50★	28.0 max.	5 MHz	490-2513-1-ND	.39	.33	.26	490-2513-2-ND	2,000	113.05/M	LQH32MN561J23L
NEW! LQH32P_N0 Series — Case 1210 NEW!														
0.47µH	±30%	1	2550	—	0.03 ±20%	100 MHz	490-5333-1-ND	.47	.40	.32	490-5333-2-ND	2,000	137.00/M	LQH32PNR47NN0L
1.0µH	±30%	1	2050	—	0.045 ±20%	100 MHz	490-5334-1-ND	.47	.40	.32	490-5334-2-ND	2,000	137.00/M	LQH32PN1R0NN0L

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz ‡ Test Frequency at 100MHz ★ Test Frequency at 796kHz
◊ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Chip Coils Wound Type SMD *(Cont.)*

Dimensions in mm

LQH44P Series

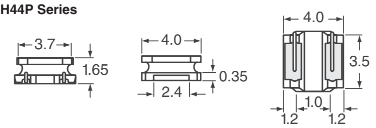

Large DC current rating of up to 2.95A. Offers both low DC resistance between 0.03~0.37Ω and low power loss. Wide operating temperature range of -40°C~85°C. Available for extended requirements. Wide inductance range from 1.2µH~22µH. Magnetically shielded structure. Reflowable.

LQH43C Series

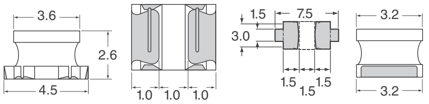

Consists of miniature chip inductors with low DC resistance, high current capacity, and high impedance characteristics. It is suitable for use as choke coil in DC power supply circuits.

LQH43M Series

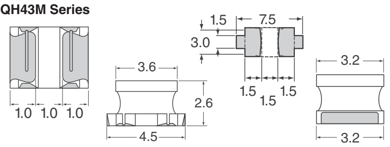

Consists of winding type chip coils for general use by Murata's original auto winding technology and ferrite core. High Q value at high frequency and low DC resistance.

LQH55P Series

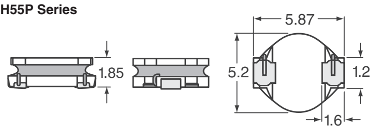

Large allowable DC current of 2600mA (at 1.2 µH). The series has an inductance range from 1.2µH~22µH. Magnetically shielded structure. Reflow soldering methods can be employed.

LQH6PP Series *NEW!*

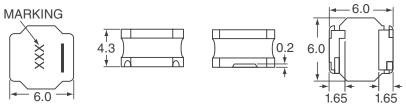

Large rated current of 4.30A (at 1.0µH). The series has an inductance range from 1.0µH ~ 100µH. Magnetically shielded structure. Reflow soldering methods can be employed. **Applications:** • DC-DC Converter

LQH88P Series *NEW!*

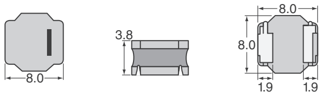

Large rated current of 8.00A (at 1.0µH). The series has an inductance range from 1.0µH ~ 100µH. Magnetically shielded structure. Reflow soldering methods can be employed. **Applications:** • DC-DC Converter

Inductance	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel◊		Murata Part No.
								1	10	100		Qty.	Pricing	
1.5µH	±30%	1	1750	—	0.057 ±20%	70 MHz	490-5335-1-ND	.47	.40	.32	490-5335-2-ND	2,000	137.00/M	LQH32PN1R5NN0L
2.2µH	±30%	1	1600	—	0.076 ±20%	70 MHz	490-5336-1-ND	.47	.40	.32	490-5336-2-ND	2,000	137.00/M	LQH32PN2R2NN0L
3.3µH	±30%	1	1200	—	0.12 ±20%	50 MHz	490-5337-1-ND	.47	.40	.32	490-5337-2-ND	2,000	137.00/M	LQH32PN3R3NN0L
4.7µH	±30%	1	1000	—	0.18 ±20%	40 MHz	490-5338-1-ND	.47	.40	.32	490-5338-2-ND	2,000	137.00/M	LQH32PN4R7NN0L
6.8µH	±30%	1	850	—	0.24 ±20%	40 MHz	490-5339-1-ND	.47	.40	.32	490-5339-2-ND	2,000	137.00/M	LQH32PN6R8NN0L
10µH	±20%	1	700	—	0.38 ±20%	30 MHz	490-5340-1-ND	.47	.40	.32	490-5340-2-ND	2,000	137.00/M	LQH32PN100MN0L
22µH	±20%	1	450	—	0.81 ±20%	20 MHz	490-5341-1-ND	.47	.40	.32	490-5341-2-ND	2,000	137.00/M	LQH32PN220MN0L
LQH44P Series — Case 1515														
1.0µH	±30%	1	2450	—	0.030 ±20%	90 MHz	490-5325-1-ND	.53	.45	.36	490-5325-2-ND	1,000	155.00	LQH44PN1R0NP0L
2.2µH	±20%	1	1800	—	0.049 ±20%	70 MHz	490-5326-1-ND	.53	.45	.36	490-5326-2-ND	1,000	155.00	LQH44PN2R2MP0L
3.3µH	±20%	1	1770	—	0.065 ±20%	50 MHz	490-5327-1-ND	.53	.45	.36	490-5327-2-ND	1,000	155.00	LQH44PN3R3MP0L
4.7µH	±20%	1	1700	—	0.080 ±20%	40 MHz	490-5328-1-ND	.53	.45	.36	490-5328-2-ND	1,000	155.00	LQH44PN4R7MP0L
6.8µH	±20%	1	1340	—	0.12 ±20%	35 MHz	490-5329-1-ND	.53	.45	.36	490-5329-2-ND	1,000	155.00	LQH44PN6R8MP0L
10µH	±20%	1	1170	—	0.16 ±20%	25 MHz	490-5330-1-ND	.53	.45	.36	490-5330-2-ND	1,000	155.00	LQH44PN100MP0L
22µH	±20%	1	790	—	0.37 ±20%	17 MHz	490-5331-1-ND	.53	.45	.36	490-5331-2-ND	1,000	155.00	LQH44PN220MP0L
LQH43C Series — Case 1812														
1.0µH	±20%	1	1080	—	0.08 max.	100 MHz	490-2514-1-ND	.64	.54	.43	490-2514-2-ND	500	93.10	LQH43CN1R0M03L
2.2µH	±20%	1	900	—	0.11 max.	60 MHz	490-2515-1-ND	.64	.54	.43	490-2515-2-ND	500	93.10	LQH43CN2R2M03L
3.3µH	±20%	1	800	—	0.13 max.	47 MHz	490-2516-1-ND	.64	.54	.43	490-2516-2-ND	500	93.10	LQH43CN3R3M03L
4.7µH	±20%	1	750	—	0.15 max.	35 MHz	490-2517-1-ND	.64	.54	.43	490-2517-2-ND	500	93.10	LQH43CN4R7M03L
6.8µH	±20%	1	720	—	0.20 max.	30 MHz	490-2518-1-ND	.64	.54	.43	490-2518-2-ND	500	93.10	LQH43CN6R8M03L
10µH	±10%	1	650	—	0.24 max.	23 MHz	490-2519-1-ND	.64	.54	.43	490-2519-2-ND	500	93.10	LQH43CN100K03L
33µH	±10%	1	310	—	1.0 max.	12 MHz	490-2520-1-ND	.64	.54	.43	490-2520-2-ND	500	93.10	LQH43CN330K03L
47µH	±10%	1	280	—	1.1 max.	10 MHz	490-2521-1-ND	.64	.54	.43	490-2521-2-ND	500	93.10	LQH43CN470K03L
68µH	±10%	1	220	—	1.7 max.	8.4 MHz	490-2522-1-ND	.64	.54	.43	490-2522-2-ND	500	93.10	LQH43CN680K03L
330µH	±10%	1	100	—	6.8 max.	3.6 MHz	490-2523-1-ND	.67	.56	.45	490-2523-2-ND	500	97.65	LQH43CN331K03L
470µH	±10%	1kHz	90	—	8.5 max.	3.0 MHz	490-2524-1-ND	.67	.56	.45	490-2524-2-ND	500	97.65	LQH43CN471K03L
LQH43M Series — Case 1812														
3.9µH	±20%	1	500	20	0.38 max.	41 MHz	490-2525-1-ND	.79	.66	.53	490-2525-2-ND	500	114.89	LQH43MN3R9M03L
5.6µH	±10%	1	500	30	0.47 max.	33 MHz	490-2526-1-ND	.79	.66	.53	490-2526-2-ND	500	114.89	LQH43MN5R6K03L
27µH	±10%	1	300	35	1.1 max.	14 MHz	490-2527-1-ND	.63	.53	.43	490-2527-2-ND	500	92.58	LQH43MN270K03L
82µH	±10%	1	170	35	2.2 max.	7.5 MHz	490-2528-1-ND	.63	.53	.43	490-2528-2-ND	500	92.58	LQH43MN820K03L
150µH	±10%	1	130	40★	3.7 max.	5.5 MHz	490-2529-1-ND	.63	.53	.43	490-2529-2-ND	500	92.58	LQH43MN151K03L
LQH55P Series — Case 2220														
1.2µH	±30%	100kHz	2900	—	0.021 ±20%	80 MHz	490-5265-1-ND	.62	.52	.42	490-5265-2-ND	500	90.00	LQH55PN1R2NR0L
2.2µH	±30%	100kHz	2500	—	0.031 ±20%	60 MHz	490-5266-1-ND	.62	.52	.42	490-5266-2-ND	500	90.00	LQH55PN2R2NR0L
2.7µH	±30%	100kHz	2150	—	0.040 ±20%	50 MHz	490-5267-1-ND	.62	.52	.42	490-5267-2-ND	500	90.00	LQH55PN2R7NR0L
3.3µH	±30%	100kHz	2000	—	0.044 ±20%	35 MHz	490-5268-1-ND	.62	.52	.42	490-5268-2-ND	500	90.00	LQH55PN3R3NR0L
4.7µH	±30%	100kHz	1750	—	0.060 ±20%	30 MHz	490-5269-1-ND	.62	.52	.42	490-5269-2-ND	500	90.00	LQH55PN4R7NR0L
6.8µH	±30%	100kHz	1450	—	0.087 ±20%	25 MHz	490-5270-1-ND	.62	.52	.42	490-5270-2-ND	500	90.00	LQH55PN6R8NR0L
10µH	±20%	100kHz	1250	—	0.11 ±20%	20 MHz	490-5271-1-ND	.62	.52	.42	490-5271-2-ND	500	90.00	LQH55PN100MR0L
22µH	±20%	100kHz	850	—	0.26 ±20%	10 MHz	490-5272-1-ND	.62	.52	.42	490-5272-2-ND	500	90.00	LQH55PN220MR0L
NEW! LQH6PP Series — Case 2424 NEW!														
1.0µH	±30%	100kHz	4300	—	0.009 ±30%	110 MHz	490-5424-1-ND	.66	.55	.44	490-5424-2-ND	250	47.75	LQH6PPN1R0N43L
1.5µH	±30%	100kHz	4150	—	0.010 ±30%	60 MHz	490-5425-1-ND	.66	.55	.44	490-5425-2-ND	250	47.75	LQH6PPN1R5N43L
2.2µH	±30%	100kHz	4100	—	0.014 ±30%	30 MHz	490-5426-1-ND	.66	.55	.44	490-5426-2-ND	250	47.75	LQH6PPN2R2N43L
3.3µH	±30%	100kHz	3800	—	0.016 ±30%	30 MHz	490-5427-1-ND	.66	.55	.44	490-5427-2-ND	250	47.75	LQH6PPN3R3N43L
4.7µH	±20%	100kHz	3200	—	0.020 ±30%	25 MHz	490-5428-1-ND	.66	.55	.44	490-5428-2-ND	250	47.75	LQH6PPN4R7M43L
6.8µH	±20%	100kHz	2850	—	0.028 ±30%	20 MHz	490-5429-1-ND	.66	.55	.44	490-5429-2-ND	250	47.75	LQH6PPN6R8M43L
10µH	±20%	100kHz	2600	—	0.044 ±30%	15 MHz	490-5430-1-ND	.66	.55	.44	490-5430-2-ND	250	47.75	LQH6PPN100M43L
15µH	±20%	100kHz	2200	—	0.065 ±30%	10 MHz	490-5431-1-ND	.66	.55	.44	490-5431-2-ND	250	47.75	LQH6PPN150M43L
22µH	±20%	100kHz	1550	—	0.108 ±30%	10 MHz	490-5432-1-ND	.66	.55	.44	490-5432-2-ND	250	47.75	LQH6PPN220M43L
33µH	±20%	100kHz	1290	—	0.137 ±30%	6 MHz	490-5433-1-ND	.66	.55	.44	490-5433-2-ND	250	47.75	LQH6PPN330M43L
47µH	±20%	100kHz	1100	—	0.230 ±30%	6 MHz	490-5434-1-ND	.66	.55	.44	490-5434-2-ND	250	47.75	LQH6PPN470M43L
68µH	±20%	100kHz	1000	—	0.289 ±30%	5 MHz	490-5435-1-ND	.66	.55	.44	490-5435-2-ND	250	47.75	LQH6PPN680M43L
100µH	±20%	100kHz	800	—	0.436 ±30%	3 MHz	490-5436-1-ND	.66	.55	.44	490-5436-2-ND	250	47.75	LQH6PPN101M43L
NEW! LQH88P Series — Case 3131 NEW!														
1.0µH	±30%	100kHz	8000	—	0.006 ±30%	100 MHz	490-5485-1-ND	.85	.72	.57	490-5485-2-ND	250	62.25	LQH88PN1R0N38L
1.5µH	±30%	100kHz	7100	—	0.008 ±30%	60 MHz	490-5486-1-ND	.85	.72	.57	490-5486-2-ND	250	62.25	LQH88PN1R5N38L
2.2µH	±30%	100kHz	6400	—	0.009 ±30%	50 MHz	490-5487-1-ND	.85	.72	.57	490-5487-2-ND	250	62.25	LQH88PN2R2N38L
3.3µH	±30%	100kHz	5000	—	0.013 ±30%	35 MHz	490-5488-1-ND	.85	.72	.57	490-5488-2-ND	250	62.25	LQH88PN3R3N38L
4.7µH	±30%	100kHz	4200	—	0.017 ±30%	30 MHz	490-5489-1-ND	.85	.72	.57	490-5489-2-ND	250	62.25	LQH88PN4R7N38L
6.8µH	±30%	100kHz	3800	—	0.022 ±30%	20 MHz	490-5490-1-ND	.85	.72	.57	490-5490-2-ND	250	62.25	LQH88PN6R8N38L
10µH	±20%	100kHz	3150	—	0.029 ±30%	18 MHz	490-5491-1-ND	.85	.72	.57	490-5491-2-ND	250	62.25	LQH88PN100M38L
15µH	±20%	100kHz	2450	—	0.041 ±30%	13 MHz	490-5492-1-ND	.85	.72	.57	490-5492-2-ND	250	62.25	LQH88PN150M38L
22µH	±20%	100kHz	2250	—	0.066 ±30%	10 MHz	490-5493-1-ND	.85	.72	.57	490-5493-2-ND	250	62.25	LQH88PN220M38L
33µH	±20%	100kHz	1750	—	0.095 ±30%	9 MHz	490-5494-1-ND	.85	.72	.57	490-5494-2-ND	250	62.25	LQH88PN330M38L
47µH	±20%	100kHz	1450	—	0.157 ±30%	7 MHz	490-5495-1-ND	.85	.72	.57	490-5495-2-ND	250	62.25	LQH88PN470M38L
68µH	±20%	100kHz	1100	—	0.190 ±30%	7 MHz	490-5496-1-ND	.85	.72	.57	490-5496-2-ND	250	62.25	LQH88PN680M38L
100µH	±20%	100kHz	1000	—	0.265 ±30%	4 MHz	490-5497-1-ND	.85	.72	.57	490-5497-2-ND	250	62.25	LQH88PN101M38L

† Test Frequency at 250MHz   § Test Frequency at 200MHz   ▲ Test Frequency at 150MHz   ‡ Test Frequency at 100MHz   ★ Test Frequency at 796kHz
◊ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Common Mode Choke Coils Wound Type, Film Type and Film Type Arrays

DLW21H Series: Excellent noise suppression for limited board space applications. Suitable for differential signal line like USB2.0, IEEE1394 and LVDS. DLW21H does not provide distortion to high speed signal transmission due to its high coupling. (USB2.0:DLW21HN900SQ2).

DLW21S Series: Able to suppress noise for high-speed differential signal lines which are used in digital AV interfaces, such as HDMI and DVI, without damage to the signal wave.

DLW31S Series: High common mode impedance at high frequency provides excellent noise suppression performance. DLW31S series enables noise suppression for differential signal line without distortion in high speed signal transmission due to its high coupling. Small dimension enables higher density mounting.

DLW5BS Series: High performance wound type chip common mode choke coil. Its high impedance characteristic enables great noise suppression, but it does not damage high speed signal due to low normal mode impedance.

DLW5BT Series: Suitable for noise suppression at DC power line and portable equipment. Low profile. Small size and high rated current. High common mode impedance.

DLP0NS Series: Enables noise suppression for differential signal line without distorion in high-speed signal transmission due to its line impedance matching. *Applications:* Common mode noise suppression of high speed differential signal lines for USB 2.0, IEEE1394, LVDS

DLP11S Series: Enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its high coupling. DLP11SN_HL2 series match with line impedance. High cutoff frequency is suitable for high speed differential signal line such as HDMI.

DLP31S Series: Has excellent performance at high frequency range. Suitable for differential signal line like USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupling (coupling coefficient: 0.98 minimum).

DLP2AD Series: High common mode impedance characteristics. DLP2AD can suppress common mode noise without damage to signal wave. DLP2AD match with line impedance.

DLP31D Series: Utilizing ferrite materials and thin film technology, this common mode choke coil array has high impedance characteristics all packaged in a small case size. 2 components are included in 3.2 x 1.6mm. DLP31D can suppress common mode noise without damage to signal wave.

Dimensions in mm

DLW21H Series

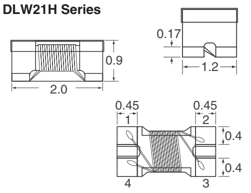

DLW21S Series

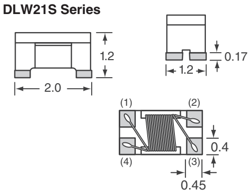

DLW31S Series

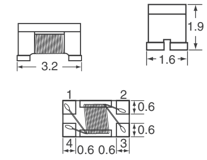

DLW5BS Series

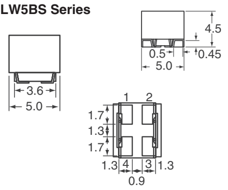

DLW5BT Series

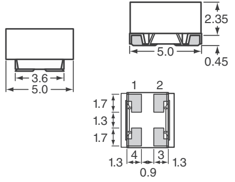

DLP0NS Series

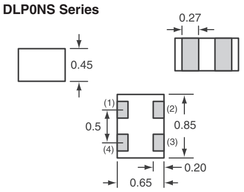

DLP11S Series

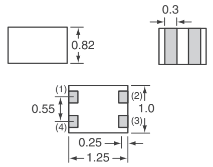

DLP31S Series

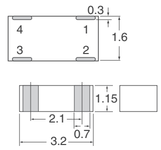

DLP2AD Series

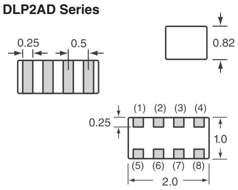

DLP31D Series

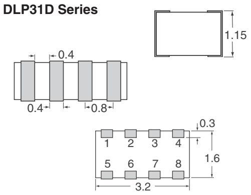

Common Mode Impedance (at 100MHz) (Ω)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (MΩ)	With-standing Voltage (Vdc)	DC Resis-tance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	50	100		Qty.	Pricing	
DLW21H Series — Wound Type													
67 ±25%	330	50	10	125	0.35 max.	490-1063-1-ND	.44	.38	.35	490-1063-2-ND	3,000	202.65/M	DLW21HN670SQ2L
90 ±25%	330	50	10	125	0.35 max.	490-1064-1-ND	.44	.38	.35	490-1064-2-ND	3,000	202.65/M	DLW21HN900SQ2L
120 ±25%	280	50	10	125	0.45 max.	490-1065-1-ND	.44	.38	.35	490-1065-2-ND	3,000	202.65/M	DLW21HN121SQ2L
180 ±25%	250	50	10	125	0.50 max.	490-1066-1-ND	.44	.38	.35	490-1066-2-ND	3,000	202.65/M	DLW21HN181SQ2L
DLW21S Series — Wound Type													
67 ±25%	320	20	10	50	0.31 max.	490-5133-1-ND	.65	.56	.52	490-5133-2-ND	2,000	299.00/M	DLW21SN670HQ2L
90 ±25%	280	20	10	50	0.41 max.	490-5134-1-ND	.65	.56	.52	490-5134-2-ND	2,000	299.00/M	DLW21SN900HQ2L
120 ±25%	280	20	10	50	0.41 max.	490-5135-1-ND	.65	.56	.52	490-5135-2-ND	2,000	299.00/M	DLW21SN121HQ2L
67 ±25%	400	50	10	125	0.25 max.	490-5136-1-ND	.54	.47	.43	490-5136-2-ND	2,000	249.00/M	DLW21SN670SQ2L
90 ±25%	330	50	10	125	0.35 max.	490-5137-1-ND	.54	.47	.43	490-5137-2-ND	2,000	249.00/M	DLW21SN900SQ2L
120 ±25%	370	50	10	125	0.30 max.	490-5138-1-ND	.54	.47	.43	490-5138-2-ND	2,000	249.00/M	DLW21SN121SQ2L
180 ±25%	330	50	10	125	0.35 max.	490-5139-1-ND	.54	.47	.43	490-5139-2-ND	2,000	249.00/M	DLW21SN181SQ2L
260 ±25%	300	50	10	125	0.40 max.	490-5140-1-ND	.54	.47	.43	490-5140-2-ND	2,000	249.00/M	DLW21SN261SQ2L
370 ±25%	280	50	10	125	0.45 max.	490-5141-1-ND	.54	.47	.43	490-5141-2-ND	2,000	249.00/M	DLW21SN371SQ2L
DLW31S Series — Wound Type													
90 ±25%	370	50	10	125	0.3	490-1067-1-ND	1.07	.93	.86	490-1067-2-ND	2,000	498.75/M	DLW31SN900SQ2L
600 ±25%	260	50	10	125	0.8	490-1068-1-ND	1.07	.93	.86	490-1068-2-ND	2,000	498.75/M	DLW31SN601SQ2L
1000 ±25%	230	50	10	125	1.0	490-1069-1-ND	1.07	.93	.86	490-1069-2-ND	2,000	498.75/M	DLW31SN102SQ2L
2200 ±25%	200	50	10	125	1.2	490-1070-1-ND	1.07	.93	.86	490-1070-2-ND	2,000	498.75/M	DLW31SN222SQ2L
DLW5BS Series — Wound Type													
350	2000	50	10	125	0.04	490-1071-1-ND	2.11	1.83	1.69	490-1071-2-ND	400	392.40	DLW5BSN351SQ2L
1000	1500	50	10	125	0.06	490-1072-1-ND	2.11	1.83	1.69	490-1072-2-ND	400	392.56	DLW5BSN102SQ2L
DLW5BT Series — Wound Type													
100	6000	50	10	125	0.009 ±40%	490-4019-1-ND	1.18	1.02	.94	490-4019-2-ND	700	383.60	DLW5BTN101SQ2L
1000	2000	50	10	125	0.024 ±40%	490-4018-1-ND	1.18	1.02	.94	490-4018-2-ND	700	383.60	DLW5BTN102SQ2L
1400	1500	50	10	125	0.040 ±40%	490-4017-1-ND	1.18	1.02	.94	490-4017-2-ND	700	383.60	DLW5BTN142SQ2L
DLP0NS Series — Film Type													
67 ±20%	110	5	100	12.5	2.4 ±25%	490-5150-1-ND	.51	.45	.41	490-5150-2-ND	5,000	237.00/M	DLP0NSN670HL2L
90 ±20%	100	5	100	12.5	3.0 ±25%	490-5151-1-ND	.51	.45	.41	490-5151-2-ND	5,000	237.00/M	DLP0NSN900HL2L
120 ±20%	90	5	100	12.5	3.8 ±25%	490-5152-1-ND	.51	.45	.41	490-5152-2-ND	5,000	237.00/M	DLP0NSN121HL2L
DLP11S Series — Film Type													
67 ±20%	180	5	100	12.5	1.3 ±25%	490-5142-1-ND	.39	.34	.32	490-5142-2-ND	3,000	181.00/M	DLP11SN670SL2L
90 ±20%	150	5	100	12.5	1.5 ±25%	490-5143-1-ND	.39	.34	.32	490-5143-2-ND	3,000	181.00/M	DLP11SN900HL2L
120 ±20%	140	5	100	12.5	2.0 ±25%	490-5144-1-ND	.39	.34	.32	490-5144-2-ND	3,000	181.00/M	DLP11SN121SL2L
160 ±20%	120	5	100	12.5	2.7 ±25%	490-5145-1-ND	.39	.34	.32	490-5145-2-ND	3,000	181.00/M	DLP11SN161SL2L
200 ±20%	110	5	100	12.5	3.1 ±25%	490-5146-1-ND	.39	.34	.32	490-5146-2-ND	3,000	181.00/M	DLP11SN201HL2L
240 ±20%	100	5	100	12.5	3.5 ±25%	490-5147-1-ND	.39	.34	.32	490-5147-2-ND	3,000	181.00/M	DLP11SN241HL2L
280 ±20%	90	5	100	12.5	4.2 ±25%	490-5148-1-ND	.39	.34	.32	490-5148-2-ND	3,000	181.00/M	DLP11SN281HL2L
330 ±20%	80	5	100	12.5	4.9 ±25%	490-5149-1-ND	.39	.34	.32	490-5149-2-ND	3,000	181.00/M	DLP11SN331HL2L
DLP31S Series — Film Type													
120 ±20%	100	16	100	40	2.0 max.	490-4020-1-ND	1.49	1.30	1.20	490-4020-2-ND	3,000	695.00/M	DLP31SN121ML2L
550 ±20%	100	16	100	40	3.6 max.	490-4021-1-ND	1.49	1.30	1.20	490-4021-2-ND	3,000	695.00/M	DLP31SN551ML2L
DLP2AD Series — Film Type Arrays													
67 ±20%	140	5	100	12.5	1.3 ±25%	490-5153-1-ND	.66	.58	.53	490-5153-2-ND	3,000	308.00/M	DLP2ADN670HL4L
90 ±20%	130	5	100	12.5	1.7 ±25%	490-5154-1-ND	.66	.58	.53	490-5154-2-ND	3,000	308.00/M	DLP2ADN900HL4L
120 ±20%	120	5	100	12.5	2.0 ±25%	490-5155-1-ND	.66	.58	.53	490-5155-2-ND	3,000	308.00/M	DLP2ADN121HL4L
160 ±20%	100	5	100	12.5	2.5 ±25%	490-5156-1-ND	.66	.58	.53	490-5156-2-ND	3,000	308.00/M	DLP2ADN161HL4L
200 ±20%	90	5	100	12.5	3.2 ±25%	490-5157-1-ND	.66	.58	.53	490-5157-2-ND	3,000	308.00/M	DLP2ADN201HL4L
240 ±20%	80	5	100	12.5	3.8 ±25%	490-5158-1-ND	.66	.58	.53	490-5158-2-ND	3,000	308.00/M	DLP2ADN241HL4L
280 ±20%	80	5	100	12.5	4.6 ±25%	490-5159-1-ND	.66	.58	.53	490-5159-2-ND	3,000	308.00/M	DLP2ADN281HL4L
DLP31D Series — Film Type Arrays													
90 ±20%	160	10	100	25	1.1 max.	490-2474-1-ND	1.46	1.27	1.17	490-2474-2-ND	3,000	678.83/M	DLP31DN900ML4L
130 ±20%	120	10	100	25	1.6 max.	490-2475-1-ND	1.46	1.27	1.17	490-2475-2-ND	3,000	678.83/M	DLP31DN131ML4L
200 ±20%	100	10	100	25	2.2 max.	490-2476-1-ND	1.46	1.27	1.17	490-2476-2-ND	3,000	678.83/M	DLP31DN201ML4L
320 ±20%	80	10	100	25	3.5 max.	490-2477-1-ND	1.46	1.27	1.17	490-2477-2-ND	3,000	678.83/M	DLP31DN321ML4L
440 ±20%	70	10	100	25	4.3 max.	490-2478-1-ND	1.46	1.27	1.17	490-2478-2-ND	3,000	678.83/M	DLP31DN441ML4L

Panasonic® Surface Mount Inductors

Non-Winding and Wire Wound Type chip inductors for automatic and high-density mounting.

Features:

- High Q • Good for mounting • Wide availability range (1.0nH ~ 1000μH)
- Stable L-value in any mounting direction (Non-Winding Type)

Recommended Applications:

- Portable telephones, Wireless Communication equipment (W-LAN, BT), PDA, Camcorder, DSC, Various modules, HIC, TV, VTR, PC peripherals

	Non-Winding Type		Wire Wound Type			
Type	**0402 (1005)**	**0603 (1608)**	**0805 (2012)**	**1008 (2520)**	**1210 (3225)**	**1812 (4532)**
Non Magnetic Core	ELJRF	ELJRE	ELJND	ELJNC	ELJNA	—
Higher Q Type	ELJQF	—	—	—	—	—
Regular	—	—	—	ELJFC	ELJFA/ DA	ELJFB
Shield	—	—	—	ELJSC	ELJSA	—
High Power	ELJPF	ELJPE	—	ELJPC	ELJPA	ELJPB
Low DC Resistance	—	—	—	—	ELJEA	—

Fig. 1 — 0402 (1005)

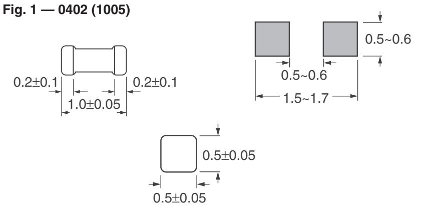

RF Type (Non-Winding Type): • High Q • High self-resonant frequency • Non-Polarity
PF Type: • High power type • Stable for power line as choke coil
QF Type: • High Q • Lead-Fre

Fig. 2 — 0603 (1608)

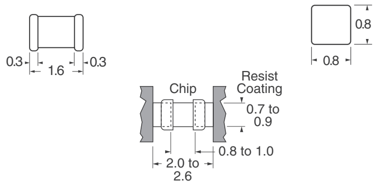

RE Type (Non-Winding Type): • Small size • High self-resonant frequency • Tight tolerance
PE Type (Non-Winding Type): • Small size • High self-resonant frequency

Fig. 3 — 0805 (2012)

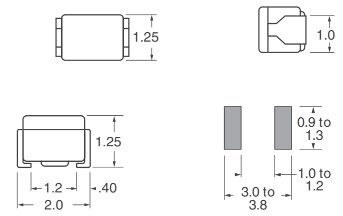

ND Type: • High Q • High self-resonant frequency

Fig. 4 — 1008 (2520)

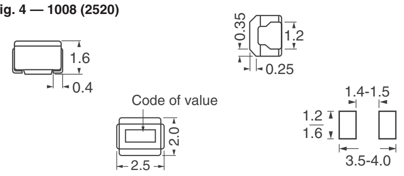

NC Type: • Low inductance, tight tolerance and small size • Suitable for high-frequency circuits • Coreless type • L is stable with respect to temperature and humidity
FC and SC Type: • Smallest of the coil type inductors • Suitable for a variety of small processing circuits • SC Type is equipped with a magnetic shield function
PC Type: • High rated DC current • Low DC resistance • Suitable for power circuits

Fig. 5 — 1210 (3225)

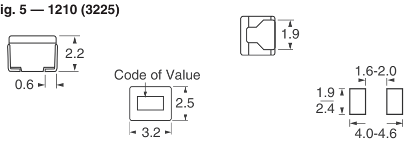

EA Type: • Low DC resistance
FA/DA Type: • Chip inductor for general use • Compact size with a wide inductance range • FA(D) Type Low Distortion • DA Type Super Low Distortion
NA Type: • Coreless Type • L is stable with respect to temperature and humidity suitable for high-frequency circuits
PA Type: • High power • High rated DC current • Suitable for power line as choke coil • PA(2) Type has lower DC Resistance
SA Type: • Use of ferrite resin giving it an additional function of magnetic shield • Compact size with high inductance

Fig. 6 — 1812 (4532)

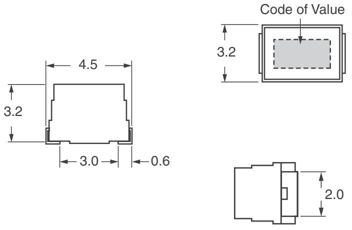

FB and PB Type: • Chip inductor for general use • High inductance

Inductance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
Fig. 1, 0402 (1005) — Type RF (2% Tolerance) — RoHS Compliant															
1.0nH	0.2nH	8	—	100	6000	0.05	400	PCD1898CT-ND	.08	3.93	5.93	PCD1898TR-ND	10,000	33.00/M	ELJ-RF1N0ZFB
1.2nH	0.2nH	8	—	100	6000	0.06	400	PCD1899CT-ND	.08	3.93	5.93	PCD1899TR-ND	10,000	33.00/M	ELJ-RF1N2ZFB
1.5nH	0.2nH	8	—	100	6000	0.07	400	PCD1900CT-ND	.08	3.93	5.93	PCD1900TR-ND	10,000	33.00/M	ELJ-RF1N5ZFB
1.8nH	0.2nH	8	—	100	6000	0.08	400	PCD1901CT-ND	.08	3.93	5.93	PCD1901TR-ND	10,000	33.00/M	ELJ-RF1N8ZFB
2.2nH	0.2nH	8	—	100	6000	0.09	400	PCD1902CT-ND	.08	3.93	5.93	PCD1902TR-ND	10,000	33.00/M	ELJ-RF2N2ZFB
2.7nH	0.2nH	8	—	100	5500	0.10	400	PCD1903CT-ND	.08	3.93	5.93	PCD1903TR-ND	10,000	33.00/M	ELJ-RF2N7ZFB
3.3nH	0.2nH	8	—	100	5500	0.12	400	PCD1904CT-ND	.08	3.93	5.93	PCD1904TR-ND	10,000	33.00/M	ELJ-RF3N3ZFB
3.9nH	0.2nH	8	—	100	5200	0.15	360	PCD1905CT-ND	.08	3.93	5.93	PCD1905TR-ND	10,000	33.00/M	ELJ-RF3N9ZFB
4.7nH	0.2nH	8	—	100	4800	0.17	360	PCD1906CT-ND	.08	3.93	5.93	PCD1906TR-ND	10,000	33.00/M	ELJ-RF4N7ZFB
5.6nH	0.2nH	8	—	100	4600	0.19	340	PCD1907CT-ND	.08	3.93	5.93	PCD1907TR-ND	10,000	33.00/M	ELJ-RF5N6ZFB
6.8nH	0.2nH	8	—	100	4000	0.30	320	PCD1908CT-ND	.08	3.93	5.93	PCD1908TR-ND	10,000	33.00/M	ELJ-RF6N8ZFB
8.2nH	0.2nH	8	—	100	3500	0.35	320	PCD1909CT-ND	.08	3.93	5.93	PCD1909TR-ND	10,000	33.00/M	ELJ-RF8N2ZFB
10nH	2%	8	—	100	2800	0.41	320	PCD1910CT-ND	.08	3.93	5.93	PCD1910TR-ND	10,000	33.00/M	ELJ-RF10NGFB
12nH	2%	8	—	100	2800	0.45	320	PCD1911CT-ND	.08	3.93	5.93	PCD1911TR-ND	10,000	33.00/M	ELJ-RF12NGFB
15nH	2%	8	—	100	2500	0.60	240	PCD1912CT-ND	.08	3.93	5.93	PCD1912TR-ND	10,000	33.00/M	ELJ-RF15NGFB
18nH	2%	8	—	100	2200	0.70	240	PCD1913CT-ND	.08	3.93	5.93	PCD1913TR-ND	10,000	33.00/M	ELJ-RF18NGFB
22nH	2%	8	—	100	2000	0.80	200	PCD1914CT-ND	.08	3.93	5.93	PCD1914TR-ND	10,000	33.00/M	ELJ-RF22NGFB
27nH	2%	8	—	100	1800	1.20	200	PCD1915CT-ND	.08	3.93	5.93	PCD1915TR-ND	10,000	33.00/M	ELJ-RF27NGFB
33nH	2%	8	—	100	1800	1.40	170	PCD1916CT-ND	.08	3.93	5.93	PCD1916TR-ND	10,000	33.00/M	ELJ-RF33NGFB
39nH	2%	8	—	100	1800	1.70	150	PCD1917CT-ND	.08	3.93	5.93	PCD1917TR-ND	10,000	33.00/M	ELJ-RF39NGFB
47nH	2%	8	—	100	1800	2.10	140	PCD1918CT-ND	.08	3.93	5.93	PCD1918TR-ND	10,000	33.00/M	ELJ-RF47NGFB
56nH	2%	8	—	100	1500	2.50	130	PCD1919CT-ND	.08	3.93	5.93	PCD1919TR-ND	10,000	33.00/M	ELJ-RF56NGFB
68nH	2%	8	—	100	1500	4.00	120	PCD1920CT-ND	.08	3.93	5.93	PCD1920TR-ND	10,000	33.00/M	ELJ-RF68NGFB
82nH	2%	8	—	100	1400	4.50	110	PCD1921CT-ND	.08	3.93	5.93	PCD1921TR-ND	10,000	33.00/M	ELJ-RF82NGFB
100nH	2%	8	—	100	1200	5.50	90	PCD1922CT-ND	.08	3.93	5.93	PCD1922TR-ND	10,000	33.00/M	ELJ-RFR10GFB
Fig. 1, 0402 (1005) — Type RF (5% Tolerance)															
1.0nH	0.3nH	8	21	100	6000	0.05	400	PCD1264CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF1N0DF
1.5nH	0.3nH	8	21	100	6000	0.07	400	PCD1266CT-ND	.09	4.31	6.49	PCD1266TR-ND	10,000	36.00/M	ELJ-RF1N5DF
2.2nH	0.3nH	8	21	100	6000	0.09	400	PCD1268CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF2N2DF
3.3nH	0.3nH	7	21	100	5500	0.12	400	PCD1270CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF3N3DF
3.9nH	0.3nH	7	20	100	5200	0.15	360	PCD1271CT-ND	.09	4.31	6.49	PCD1271TR-ND	10,000	36.00/M	ELJ-RF3N9DF
4.7nH	0.3nH	7	20	100	4800	0.17	360	PCD1272CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF4N7DF
6.8nH	5%	7	19	100	4000	0.30	320	PCD1274CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF6N8JF
8.2nH	5%	7	19	100	3500	0.35	320	PCD1275CT-ND	.09	4.31	6.49	PCD1275TR-ND	10,000	36.00/M	ELJ-RF8N2JF
12.0nH	5%	7	19	100	2800	0.45	320	PCD1277CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF12NJF
22.0nH	5%	7	19	100	2000	0.80	200	PCD1280CT-ND	.09	4.31	6.49	PCD1280TR-ND	10,000	36.00/M	ELJ-RF22NJF
27.0nH	5%	7	19	100	1800	1.20	200	PCD1281CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF27NJF
33.0nH	5%	7	18	100	1800	1.40	170	PCD1282CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF33NJF
39.0nH	5%	7	18	100	1800	1.70	150	PCD1283CT-ND	.09	4.31	6.49	PCD1283TR-ND	10,000	36.00/M	ELJ-RF39NJF
56.0nH	5%	7	—	100	1500	2.50	130	PCD1327CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF56NJF
68.0nH	5%	7	—	100	1500	4.00	120	PCD1328CT-ND	.09	4.31	6.49	PCD1328TR-ND	10,000	36.00/M	ELJ-RF68NJF
82.0nH	5%	7	—	100	1400	4.50	110	PCD1329CT-ND	.09	4.31	6.49	—	—	—	ELJ-RF82NJF
Fig. 1, 0402 (1005) — Type RF (5% Tolerance) — RoHS Compliant															
1.0nH	0.3nH	8	—	100	6000	0.05	400	PCD1923CT-ND	.07	3.02	4.56	PCD1923TR-ND	10,000	25.00/M	ELJ-RF1N0DFB
1.2nH	0.3nH	8	—	100	6000	0.06	400	PCD1924CT-ND	.07	3.02	4.56	PCD1924TR-ND	10,000	25.00/M	ELJ-RF1N2DFB
1.5nH	0.3nH	8	—	100	6000	0.07	400	PCD1925CT-ND	.07	3.02	4.56	PCD1925TR-ND	10,000	25.00/M	ELJ-RF1N5DFB
1.8nH	0.3nH	8	—	100	6000	0.08	400	PCD1926CT-ND	.07	3.02	4.56	PCD1926TR-ND	10,000	25.00/M	ELJ-RF1N8DFB
2.2nH	0.3nH	8	—	100	6000	0.09	400	PCD1927CT-ND	.07	3.02	4.56	PCD1927TR-ND	10,000	25.00/M	ELJ-RF2N2DFB
2.7nH	0.3nH	8	—	100	5500	0.10	400	PCD1928CT-ND	.07	3.02	4.56	PCD1928TR-ND	10,000	25.00/M	ELJ-RF2N7DFB
3.3nH	0.3nH	8	—	100	5500	0.12	400	PCD1929CT-ND	.07	3.02	4.56	PCD1929TR-ND	10,000	25.00/M	ELJ-RF3N3DFB
3.9nH	0.3nH	8	—	100	5200	0.15	360	PCD1930CT-ND	.07	3.02	4.56	PCD1930TR-ND	10,000	25.00/M	ELJ-RF3N9DFB
4.7nH	0.3nH	8	—	100	4800	0.17	360	PCD1931CT-ND	.07	3.02	4.56	PCD1931TR-ND	10,000	25.00/M	ELJ-RF4N7DFB

(Continued)

Inductance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
5.6nH	0.3nH	8	—	100	4600	0.19	340	PCD1932CT-ND	.07	3.02	4.56	PCD1932TR-ND	10,000	25.00/M	ELJ-RF5N6DFB
6.8nH	5%	8	—	100	4000	0.30	320	PCD1933CT-ND	.07	3.02	4.56	PCD1933TR-ND	10,000	25.00/M	ELJ-RF6N8JFB
8.2nH	5%	8	—	100	3500	0.35	320	PCD1934CT-ND	.07	3.02	4.56	PCD1934TR-ND	10,000	25.00/M	ELJ-RF8N2JFB
10nH	5%	8	—	100	2800	0.41	320	PCD1935CT-ND	.07	3.02	4.56	PCD1935TR-ND	10,000	25.00/M	ELJ-RF10NJFB
12nH	5%	8	—	100	2800	0.45	320	PCD1936CT-ND	.07	3.02	4.56	PCD1936TR-ND	10,000	25.00/M	ELJ-RF12NJFB
15nH	5%	8	—	100	2500	0.60	240	PCD1937CT-ND	.07	3.02	4.56	PCD1937TR-ND	10,000	25.00/M	ELJ-RF15NJFB
18nH	5%	8	—	100	2200	0.70	240	PCD1938CT-ND	.07	3.02	4.56	PCD1938TR-ND	10,000	25.00/M	ELJ-RF18NJFB
22nH	5%	8	—	100	2000	0.80	200	PCD1939CT-ND	.07	3.02	4.56	PCD1939TR-ND	10,000	25.00/M	ELJ-RF22NJFB
27nH	5%	8	—	100	1800	1.20	200	PCD1940CT-ND	.07	3.02	4.56	PCD1940TR-ND	10,000	25.00/M	ELJ-RF27NJFB
33nH	5%	8	—	100	1800	1.40	170	PCD1941CT-ND	.07	3.02	4.56	PCD1941TR-ND	10,000	25.00/M	ELJ-RF33NJFB
39nH	5%	8	—	100	1800	1.70	150	PCD1942CT-ND	.07	3.02	4.56	PCD1942TR-ND	10,000	25.00/M	ELJ-RF39NJFB
47nH	5%	8	—	100	1800	2.10	140	PCD1943CT-ND	.07	3.02	4.56	PCD1943TR-ND	10,000	25.00/M	ELJ-RF47NJFB
56nH	5%	8	—	100	1500	2.50	130	PCD1944CT-ND	.07	3.02	4.56	PCD1944TR-ND	10,000	25.00/M	ELJ-RF56NJFB
68nH	5%	8	—	100	1500	4.00	120	PCD1945CT-ND	.07	3.02	4.56	PCD1945TR-ND	10,000	25.00/M	ELJ-RF68NJFB
82nH	5%	8	—	100	1400	4.50	110	PCD1946CT-ND	.07	3.02	4.56	PCD1946TR-ND	10,000	25.00/M	ELJ-RF82NJFB
100nH	5%	8	—	100	1200	5.50	90	PCD1947CT-ND	.07	3.02	4.56	PCD1947TR-ND	10,000	25.00/M	ELJ-RFR10JFB
Fig. 1, 0402 (1005) — Type PF (5% Tolerance)															
2.2nH	0.3nH	7	—	100	5300	0.04	1900	PCD1539CT-ND	.29	13.49	20.34	PCD1539TR-ND	10,000	112.00/M	ELJ-PF2N2DF
2.7nH	0.3nH	7	—	100	5300	0.05	1800	PCD1540CT-ND	.29	13.49	20.34	PCD1540TR-ND	10,000	112.00/M	ELJ-PF2N7DF
3.3nH	0.3nH	7	—	100	5000	0.07	1500	PCD1541CT-ND	.29	13.49	20.34	PCD1541TR-ND	10,000	112.00/M	ELJ-PF3N3DF
3.9nH	0.3nH	7	—	100	4800	0.08	1400	PCD1542CT-ND	.29	13.49	20.34	PCD1542TR-ND	10,000	112.00/M	ELJ-PF3N9DF
4.7nH	0.3nH	7	—	100	4600	0.10	1300	PCD1543CT-ND	.29	13.49	20.34	PCD1543TR-ND	10,000	112.00/M	ELJ-PF4N7DF
5.6nH	0.3nH	7	—	100	4200	0.12	1200	PCD1544CT-ND	.29	13.49	20.34	PCD1544TR-ND	10,000	112.00/M	ELJ-PF5N6DF
6.8nH	5%	7	—	100	4000	0.16	1100	PCD1545CT-ND	.29	13.49	20.34	PCD1545TR-ND	10,000	112.00/M	ELJ-PF6N8JF
8.2nH	5%	7	—	100	3700	0.21	900	PCD1546CT-ND	.29	13.49	20.34	—	—	—	ELJ-PF8N2JF
10.0nH	5%	7	—	100	3200	0.26	750	PCD1547CT-ND	.29	13.49	20.34	—	—	—	ELJ-PF10NJF
Fig. 1, 0402 (1005) — Type PF (5% Tolerance) — RoHS Compliant															
2.2nH	0.3nH	7	—	100	5300	0.040	1900	PCD1889CT-ND	.13	6.06	9.14	PCD1889TR-ND	10,000	50.00/M	ELJ-PF2N2DFB
2.7nH	0.3nH	7	—	100	5300	0.050	1800	PCD1890CT-ND	.13	6.06	9.14	PCD1890TR-ND	10,000	50.00/M	ELJ-PF2N7DFB
3.3nH	0.3nH	7	—	100	5000	0.070	1500	PCD1891CT-ND	.13	6.06	9.14	PCD1891TR-ND	10,000	50.00/M	ELJ-PF3N3DFB
3.9nH	0.3nH	7	—	100	4800	0.080	1400	PCD1892CT-ND	.13	6.06	9.14	PCD1892TR-ND	10,000	50.00/M	ELJ-PF3N9DFB
4.7nH	0.3nH	7	—	100	4600	0.100	1300	PCD1893CT-ND	.13	6.06	9.14	PCD1893TR-ND	10,000	50.00/M	ELJ-PF4N7DFB
5.6nH	0.3nH	7	—	100	4200	0.120	1200	PCD1894CT-ND	.13	6.06	9.14	PCD1894TR-ND	10,000	50.00/M	ELJ-PF5N6DFB
6.8nH	5%	7	—	100	4000	0.160	1100	PCD1895CT-ND	.13	6.06	9.14	PCD1895TR-ND	10,000	50.00/M	ELJ-PF6N8JFB
8.2nH	5%	7	—	100	3700	0.210	900	PCD1896CT-ND	.13	6.06	9.14	PCD1896TR-ND	10,000	50.00/M	ELJ-PF8N2JFB
10nH	5%	7	—	100	3200	0.260	750	PCD1897CT-ND	.13	6.06	9.14	PCD1897TR-ND	10,000	50.00/M	ELJ-PF10NJFB
Fig. 1, 0402 (1005) — Type QF (5% Tolerance) — RoHS Compliant															
1.0nH	0.3nH	10	41	100	6000	0.05	400	PCD1846CT-ND	.22	10.08	15.19	PCD1846TR-ND	10,000	84.00/M	ELJ-QF1N0DF
1.2nH	0.3nH	10	41	100	6000	0.06	400	PCD1847CT-ND	.22	10.08	15.19	PCD1847TR-ND	10,000	84.00/M	ELJ-QF1N2DF
1.5nH	0.3nH	10	40	100	6000	0.07	400	PCD1848CT-ND	.22	10.08	15.19	PCD1848TR-ND	10,000	84.00/M	ELJ-QF1N5DF
1.8nH	0.3nH	10	40	100	6000	0.08	400	PCD1849CT-ND	.22	10.08	15.19	PCD1849TR-ND	10,000	84.00/M	ELJ-QF1N8DF
2.2nH	0.3nH	10	40	100	6000	0.09	400	PCD1850CT-ND	.22	10.08	15.19	PCD1850TR-ND	10,000	84.00/M	ELJ-QF2N2DF
2.7nH	0.3nH	10	40	100	5500	0.10	400	PCD1851CT-ND	.22	10.08	15.19	PCD1851TR-ND	10,000	84.00/M	ELJ-QF2N7DF
3.3nH	0.3nH	10	39	100	5500	0.12	400	PCD1852CT-ND	.22	10.08	15.19	PCD1852TR-ND	10,000	84.00/M	ELJ-QF3N3DF
3.9nH	0.3nH	10	39	100	5200	0.15	360	PCD1853CT-ND	.22	10.08	15.19	PCD1853TR-ND	10,000	84.00/M	ELJ-QF3N9DF
4.7nH	0.3nH	10	39	100	4800	0.17	360	PCD1854CT-ND	.22	10.08	15.19	PCD1854TR-ND	10,000	84.00/M	ELJ-QF4N7DF
5.6nH	0.3nH	10	39	100	4600	0.19	340	PCD1855CT-ND	.22	10.08	15.19	PCD1855TR-ND	10,000	84.00/M	ELJ-QF5N6DF
6.8nH	5%	10	39	100	4000	0.30	320	PCD1856CT-ND	.22	10.08	15.19	PCD1856TR-ND	10,000	84.00/M	ELJ-QF6N8JF
8.2nH	5%	10	39	100	3500	0.35	320	PCD1857CT-ND	.22	10.08	15.19	PCD1857TR-ND	10,000	84.00/M	ELJ-QF8N2JF
10nH	5%	10	39	100	2800	0.41	320	PCD1858CT-ND	.22	10.08	15.19	PCD1858TR-ND	10,000	84.00/M	ELJ-QF10NJF
12nH	5%	10	38	100	2800	0.45	320	PCD1859CT-ND	.22	10.08	15.19	PCD1859TR-ND	10,000	84.00/M	ELJ-QF12NJF
15nH	5%	10	36	100	2500	0.60	240	PCD1860CT-ND	.22	10.08	15.19	PCD1860TR-ND	10,000	84.00/M	ELJ-QF15NJF
18nH	5%	10	36	100	2200	0.70	240	PCD1861CT-ND	.22	10.08	15.19	PCD1861TR-ND	10,000	84.00/M	ELJ-QF18NJF
22nH	5%	10	36	100	2200	0.80	200	PCD1862CT-ND	.22	10.08	15.19	PCD1862TR-ND	10,000	84.00/M	ELJ-QF22NJF
27nH	5%	10	36	100	1800	1.20	200	PCD1863CT-ND	.22	10.08	15.19	PCD1863TR-ND	10,000	84.00/M	ELJ-QF27NJF
33nH	5%	10	35	100	1800	1.40	170	PCD1864CT-ND	.22	10.08	15.19	PCD1864TR-ND	10,000	84.00/M	ELJ-QF33NJF
39nH	5%	10	35	100	1800	1.70	150	PCD1865CT-ND	.22	10.08	15.19	PCD1865TR-ND	10,000	84.00/M	ELJ-QF39NJF
Fig. 2, 0603 (1608) — Type RE (2% Tolerance)															
6.8nH	0.2nH	9	36	100	3550	0.20	430	PCD1292CT-ND	.12	5.69	8.58	—	—	—	ELJ-RE6N8ZF2
68nH	2%	12	35	100	1500	1.3	250	PCD1304CT-ND	.12	5.69	8.58	—	—	—	ELJ-RE68NGF3
82nH	2%	12	33	100	1500	1.5	250	PCD1305CT-ND	.12	5.69	8.58	—	—	—	ELJ-RE82NGF3
Fig. 2, 0603 (1608) — Type RE (2% Tolerance) — RoHS Compliant															
1.0nH	0.2nH	7	—	100	6000	0.05	500	PCD1990CT-ND	.11	5.30	7.99	PCD1990TR-ND	3,000	49.00/M	ELJ-RE1N0ZFA
1.2nH	0.2nH	7	—	100	6000	0.06	500	PCD1991CT-ND	.11	5.30	7.99	PCD1991TR-ND	3,000	49.00/M	ELJ-RE1N2ZFA
1.5nH	0.2nH	8	—	100	6000	0.07	500	PCD1992CT-ND	.11	5.30	7.99	PCD1992TR-ND	3,000	49.00/M	ELJ-RE1N5ZFA
1.8nH	0.2nH	8	—	100	6000	0.08	500	PCD1993CT-ND	.11	5.30	7.99	PCD1993TR-ND	3,000	49.00/M	ELJ-RE1N8ZFA
2.2nH	0.2nH	8	—	100	6000	0.09	500	PCD1994CT-ND	.11	5.30	7.99	PCD1994TR-ND	3,000	49.00/M	ELJ-RE2N2ZFA
2.7nH	0.2nH	8	—	100	6000	0.10	500	PCD1995CT-ND	.11	5.30	7.99	PCD1995TR-ND	3,000	49.00/M	ELJ-RE2N7ZFA
3.3nH	0.2nH	9	—	100	5500	0.12	500	PCD1996CT-ND	.11	5.30	7.99	PCD1996TR-ND	3,000	49.00/M	ELJ-RE3N3ZFA
3.9nH	0.2nH	9	—	100	5500	0.15	450	PCD1997CT-ND	.11	5.30	7.99	PCD1997TR-ND	3,000	49.00/M	ELJ-RE3N9ZFA
4.7nH	0.2nH	9	—	100	4800	0.17	450	PCD1998CT-ND	.11	5.30	7.99	PCD1998TR-ND	3,000	49.00/M	ELJ-RE4N7ZFA
5.6nH	0.2nH	9	—	100	4600	0.18	430	PCD1999CT-ND	.11	5.30	7.99	PCD1999TR-ND	3,000	49.00/M	ELJ-RE5N6ZFA
6.8nH	0.2nH	9	—	100	3550	0.20	430	PCD2000CT-ND	.11	5.30	7.99	PCD2000TR-ND	3,000	49.00/M	ELJ-RE6N8ZFA
8.2nH	0.2nH	9	—	100	3550	0.28	400	PCD2001CT-ND	.11	5.30	7.99	PCD2001TR-ND	3,000	49.00/M	ELJ-RE8N2ZFA
10nH	2%	10	—	100	2800	0.32	400	PCD2002CT-ND	.11	5.30	7.99	PCD2002TR-ND	3,000	49.00/M	ELJ-RE10NGFA
12nH	2%	10	—	100	2800	0.35	400	PCD2003CT-ND	.11	5.30	7.99	PCD2003TR-ND	3,000	49.00/M	ELJ-RE12NGFA
15nH	2%	10	—	100	2500	0.41	350	PCD2004CT-ND	.11	5.30	7.99	PCD2004TR-ND	3,000	49.00/M	ELJ-RE15NGFA
18nH	2%	10	—	100	2300	0.45	350	PCD2005CT-ND	.11	5.30	7.99	PCD2005TR-ND	3,000	49.00/M	ELJ-RE18NGFA
22nH	2%	10	—	100	2000	0.50	300	PCD2006CT-ND	.11	5.30	7.99	PCD2006TR-ND	3,000	49.00/M	ELJ-RE22NGFA
27nH	2%	10	—	100	2000	0.55	300	PCD2007CT-ND	.11	5.30	7.99	PCD2007TR-ND	3,000	49.00/M	ELJ-RE27NGFA
33nH	2%	10	—	100	1800	0.60	300	PCD2008CT-ND	.11	5.30	7.99	PCD2008TR-ND	3,000	49.00/M	ELJ-RE33NGFA
39nH	2%	11	—	100	1800	0.80	300	PCD2009CT-ND	.11	5.30	7.99	PCD2009TR-ND	3,000	49.00/M	ELJ-RE39NGFA
47nH	2%	11	—	100	1800	0.95	250	PCD2010CT-ND	.11	5.30	7.99	PCD2010TR-ND	3,000	49.00/M	ELJ-RE47NGFA
56nH	2%	12	—	100	1800	1.20	250	PCD2011CT-ND	.11	5.30	7.99	PCD2011TR-ND	3,000	49.00/M	ELJ-RE56NGFA
68nH	2%	12	—	100	1500	1.30	250	PCD2012CT-ND	.11	5.30	7.99	PCD2012TR-ND	3,000	49.00/M	ELJ-RE68NGFA
82nH	2%	12	—	100	1500	1.50	250	PCD2013CT-ND	.11	5.30	7.99	PCD2013TR-ND	3,000	49.00/M	ELJ-RE82NGFA
100nH	2%	12	—	100	1300	1.80	200	PCD2014CT-ND	.11	5.30	7.99	PCD2014TR-ND	3,000	49.00/M	ELJ-RER10GFA
120nH	2%	5	—	25.2	1200	3.00	130	PCD2015CT-ND	.11	5.30	7.99	PCD2015TR-ND	3,000	49.00/M	ELJ-RER12GFA
150nH	2%	5	—	25.2	1100	4.50	100	PCD2016CT-ND	.11	5.30	7.99	PCD2016TR-ND	3,000	49.00/M	ELJ-RER15GFA
180nH	2%	4	—	25.2	1000	6.50	80	PCD2017CT-ND	.11	5.30	7.99	PCD2017TR-ND	3,000	49.00/M	ELJ-RER18GFA
220nH	2%	4	—	25.2	900	7.50	70	PCD2018CT-ND	.11	5.30	7.99	PCD2018TR-ND	3,000	49.00/M	ELJ-RER22GFA
Fig. 2, 0603 (1608) — Type RE (5% Tolerance)															
6.8nH	5%	9	36	100	3550	0.20	430	PCD1149CT-ND	.09	4.31	6.49	—	—	—	ELJ-RE6N8JF2
150nH	5%	5	22	25.2	1100	4.50	100	PCD1323CT-ND	.09	4.31	6.49	—	—	—	ELJ-RER15JF3
Fig. 2, 0603 (1608) — Type RE (5% Tolerance) — RoHS Compliant															
1.0nH	0.3nH	7	—	100	6000	0.05	500	PCD1961CT-ND	.09	4.05	6.10	PCD1961TR-ND	3,000	37.00/M	ELJ-RE1N0DFA
1.2nH	0.3nH	7	—	100	6000	0.06	500	PCD1962CT-ND	.09	4.05	6.10	PCD1962TR-ND	3,000	37.00/M	ELJ-RE1N2DFA
1.5nH	0.3nH	8	—	100	6000	0.07	500	PCD1963CT-ND	.09	4.05	6.10	PCD1963TR-ND	3,000	37.00/M	ELJ-RE1N5DFA
1.8nH	0.3nH	8	—	100	6000	0.08	500	PCD1964CT-ND	.09	4.05	6.10	PCD1964TR-ND	3,000	37.00/M	ELJ-RE1N8DFA
2.2nH	0.3nH	8	—	100	6000	0.09	500	PCD1965CT-ND	.09	4.05	6.10	PCD1965TR-ND	3,000	37.00/M	ELJ-RE2N2DFA
2.7nH	0.3nH	8	—	100	6000	0.10	500	PCD1966CT-ND	.09	4.05	6.10	PCD1966TR-ND	3,000	37.00/M	ELJ-RE2N7DFA
3.3nH	0.3nH	9	—	100	5500	0.12	500	PCD1967CT-ND	.09	4.05	6.10	PCD1967TR-ND	3,000	37.00/M	ELJ-RE3N3DFA
3.9nH	5%	9	—	100	5500	0.15	450	PCD1968CT-ND	.09	4.05	6.10	PCD1968TR-ND	3,000	37.00/M	ELJ-RE3N9JFA
4.7nH	5%	9	—	100	4800	0.17	450	PCD1969CT-ND	.09	4.05	6.10	PCD1969TR-ND	3,000	37.00/M	ELJ-RE4N7JFA
5.6nH	5%	9	—	100	4600	0.18	430	PCD1970CT-ND	.09	4.05	6.10	PCD1970TR-ND	3,000	37.00/M	ELJ-RE5N6JFA
6.8nH	5%	9	—	100	3550	0.20	430	PCD1971CT-ND	.09	4.05	6.10	PCD1971TR-ND	3,000	37.00/M	ELJ-RE6N8JFA

(Continued)

Induc-tance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
8.2nH	5%	9	—	100	3550	0.28	400	PCD1972CT-ND	.09	4.05	6.10	PCD1972TR-ND	3,000	37.00/M	ELJ-RE8N2JFA
10nH	5%	10	—	100	2800	0.32	400	PCD1973CT-ND	.09	4.05	6.10	PCD1973TR-ND	3,000	37.00/M	ELJ-RE10NJFA
12nH	5%	10	—	100	2800	0.35	400	PCD1974CT-ND	.09	4.05	6.10	PCD1974TR-ND	3,000	37.00/M	ELJ-RE12NJFA
15nH	5%	10	—	100	2500	0.41	350	PCD1975CT-ND	.09	4.05	6.10	PCD1975TR-ND	3,000	37.00/M	ELJ-RE15NJFA
18nH	5%	10	—	100	2300	0.45	350	PCD1976CT-ND	.09	4.05	6.10	PCD1976TR-ND	3,000	37.00/M	ELJ-RE18NJFA
22nH	5%	10	—	100	2000	0.50	300	PCD1977CT-ND	.09	4.05	6.10	PCD1977TR-ND	3,000	37.00/M	ELJ-RE22NJFA
27nH	5%	10	—	100	2000	0.55	300	PCD1978CT-ND	.09	4.05	6.10	PCD1978TR-ND	3,000	37.00/M	ELJ-RE27NJFA
33nH	5%	10	—	100	1800	0.60	300	PCD1979CT-ND	.09	4.05	6.10	PCD1979TR-ND	3,000	37.00/M	ELJ-RE33NJFA
39nH	5%	11	—	100	1800	0.80	300	PCD1980CT-ND	.09	4.05	6.10	PCD1980TR-ND	3,000	37.00/M	ELJ-RE39NJFA
47nH	5%	11	—	100	1800	0.95	250	PCD1981CT-ND	.09	4.05	6.10	PCD1981TR-ND	3,000	37.00/M	ELJ-RE47NJFA
56nH	5%	12	—	100	1800	1.20	250	PCD1982CT-ND	.09	4.05	6.10	PCD1982TR-ND	3,000	37.00/M	ELJ-RE56NJFA
68nH	5%	12	—	100	1500	1.30	250	PCD1983CT-ND	.09	4.05	6.10	PCD1983TR-ND	3,000	37.00/M	ELJ-RE68NJFA
82nH	5%	12	—	100	1500	1.50	250	PCD1984CT-ND	.09	4.05	6.10	PCD1984TR-ND	3,000	37.00/M	ELJ-RE82NJFA
100nH	5%	12	—	100	1300	1.80	200	PCD1985CT-ND	.09	4.05	6.10	PCD1985TR-ND	3,000	37.00/M	ELJ-RER10JFA
120nH	5%	5	—	25.2	1200	3.00	130	PCD1986CT-ND	.09	4.05	6.10	PCD1986TR-ND	3,000	37.00/M	ELJ-RER12JFA
150nH	5%	5	—	25.2	1100	4.50	100	PCD1987CT-ND	.09	4.05	6.10	PCD1987TR-ND	3,000	37.00/M	ELJ-RER15JFA
180nH	5%	4	—	25.2	1000	6.50	80	PCD1988CT-ND	.09	4.05	6.10	PCD1988TR-ND	3,000	37.00/M	ELJ-RER18JFA
220nH	5%	4	—	25.2	900	7.50	70	PCD1989CT-ND	.09	4.05	6.10	PCD1989TR-ND	3,000	37.00/M	ELJ-RER22JFA
Fig. 2, 0603 (1608) — Type PE (10% Tolerance)															
2.2nH	10%	8	—	100	6000	0.030	2.1	PCD1404CT-ND	.29	13.49	20.34	PCD1404TR-ND	3,000	125.00/M	ELJ-PE2N2KF
2.7nH	10%	8	—	100	5500	0.030	2.1	PCD1405CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE2N7KF
3.3nH	10%	8	—	100	5500	0.040	2.1	PCD1406CT-ND	.29	13.49	20.34	PCD1406TR-ND	3,000	125.00/M	ELJ-PE3N3KF
3.9nH	10%	9	—	100	5200	0.040	2.1	PCD1407CT-ND	.29	13.49	20.34	PCD1407TR-ND	3,000	125.00/M	ELJ-PE3N9KF
4.7nH	10%	9	—	100	4800	0.050	2.1	PCD1408CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE4N7KF
5.6nH	10%	9	—	100	4600	0.055	2.1	PCD1409CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE5N6KF
6.8nH	10%	9	—	100	4000	0.055	1.9	PCD1410CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE6N8KF
8.2nH	10%	9	—	100	3500	0.060	1.7	PCD1411CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE8N2KF
10nH	10%	9	—	100	2800	0.065	1.4	PCD1412CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE10NKF
12nH	10%	9	—	100	2500	0.080	1.3	PCD1413CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE12NKF
15nH	10%	9	—	100	2200	0.100	0.9	PCD1414CT-ND	.29	13.49	20.34	PCD1414TR-ND	3,000	125.00/M	ELJ-PE15NKF
18nH	10%	9	—	100	2000	0.120	0.8	PCD1415CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE18NKF
22nH	10%	9	—	100	1800	0.150	0.7	PCD1416CT-ND	.29	13.49	20.34	—	—	—	ELJ-PE22NKF
Fig. 2, 0603 (1608) — Type PE (10% Tolerance) — RoHS Compliant															
2.2nH	10%	8	—	100	—	.030	2100	PCD1948CT-ND	.28	12.98	19.58	PCD1948TR-ND	3,000	120.00/M	ELJ-PE2N2KFA
2.7nH	10%	8	—	100	—	.030	2100	PCD1949CT-ND	.28	12.98	19.58	PCD1949TR-ND	3,000	120.00/M	ELJ-PE2N7KFA
3.3nH	10%	8	—	100	—	.040	2100	PCD1950CT-ND	.28	12.98	19.58	PCD1950TR-ND	3,000	120.00/M	ELJ-PE3N3KFA
3.9nH	10%	9	—	100	—	.040	2100	PCD1951CT-ND	.28	12.98	19.58	PCD1951TR-ND	3,000	120.00/M	ELJ-PE3N9KFA
4.7nH	10%	9	—	100	—	.050	2100	PCD1952CT-ND	.28	12.98	19.58	PCD1952TR-ND	3,000	120.00/M	ELJ-PE4N7KFA
5.6nH	10%	9	—	100	—	.055	2100	PCD1953CT-ND	.28	12.98	19.58	PCD1953TR-ND	3,000	120.00/M	ELJ-PE5N6KFA
6.8nH	10%	9	—	100	—	.055	1900	PCD1954CT-ND	.28	12.98	19.58	PCD1954TR-ND	3,000	120.00/M	ELJ-PE6N8KFA
8.2nH	10%	9	—	100	—	.060	1700	PCD1955CT-ND	.28	12.98	19.58	PCD1955TR-ND	3,000	120.00/M	ELJ-PE8N2KFA
10nH	10%	9	—	100	—	.065	1400	PCD1956CT-ND	.28	12.98	19.58	PCD1956TR-ND	3,000	120.00/M	ELJ-PE10NKFA
12nH	10%	9	—	100	—	.080	1300	PCD1957CT-ND	.28	12.98	19.58	PCD1957TR-ND	3,000	120.00/M	ELJ-PE12NKFA
15nH	10%	9	—	100	—	.100	900	PCD1958CT-ND	.28	12.98	19.58	PCD1958TR-ND	3,000	120.00/M	ELJ-PE15NKFA
18nH	10%	9	—	100	—	.120	800	PCD1959CT-ND	.28	12.98	19.58	PCD1959TR-ND	3,000	120.00/M	ELJ-PE18NKFA
22nH	10%	9	—	100	—	.150	700	PCD1960CT-ND	.28	12.98	19.58	PCD1960TR-ND	3,000	120.00/M	ELJ-PE22NKFA
Fig. 3, 0805 (2012) — Type ND (10% Tolerance) — RoHS Compliant															
10nH	10%	10	48	100	3300	.18	540	PCD1160CT-ND	.27	12.72	19.18	PCD1160TR-ND	3,000	117.00/M	ELJ-ND10NKF
12nH	10%	10	53	100	3300	.24	535	PCD1161CT-ND	.27	12.72	19.18	PCD1161TR-ND	3,000	117.00/M	ELJ-ND12NKF
15nH	10%	12	55	100	3000	.24	520	PCD1162CT-ND	.27	12.72	19.18	PCD1162TR-ND	3,000	117.00/M	ELJ-ND15NKF
18nH	10%	12	55	100	3000	.29	480	PCD1163CT-ND	.27	12.72	19.18	PCD1163TR-ND	3,000	117.00/M	ELJ-ND18NKF
22nH	10%	15	55	100	2600	.29	465	PCD1164CT-ND	.27	12.72	19.18	PCD1164TR-ND	3,000	117.00/M	ELJ-ND22NKF
27nH	10%	15	57	100	2500	.34	455	PCD1165CT-ND	.27	12.72	19.18	PCD1165TR-ND	3,000	117.00/M	ELJ-ND27NKF
33nH	10%	15	58	100	2050	.39	395	PCD1166CT-ND	.27	12.72	19.18	PCD1166TR-ND	3,000	117.00/M	ELJ-ND33NKF
Fig. 3, 0805 (2012) — Type ND (5% Tolerance)															
330nH	5%	10	—	25.2	200	2.16	160	PCD1178CT-ND	.27	12.72	19.18	PCD1178TR-ND	3,000	117.00/M	ELJ-NDR33JF
390nH	5%	10	—	25.2	150	2.37	150	PCD1179CT-ND	.27	12.72	19.18	PCD1179TR-ND	3,000	117.00/M	ELJ-NDR39JF
Fig. 3, 0805 (2012) — Type ND (5% Tolerance) — RoHS Compliant															
12nH	5%	10	53	100	3300	.24	535	PCD1185CT-ND	.27	12.72	19.18	PCD1185TR-ND	3,000	117.00/M	ELJ-ND12NJF
39nH	5%	15	55	100	2000	.41	390	PCD1167CT-ND	.27	12.72	19.18	PCD1167TR-ND	3,000	117.00/M	ELJ-ND39NJF
47nH	5%	15	50	100	1650	.46	385	PCD1168CT-ND	.27	12.72	19.18	PCD1168TR-ND	3,000	117.00/M	ELJ-ND47NJF
56nH	5%	15	45	100	1550	.51	360	PCD1169CT-ND	.27	12.72	19.18	PCD1169TR-ND	3,000	117.00/M	ELJ-ND56NJF
68nH	5%	15	44	100	1450	.57	340	PCD1170CT-ND	.27	12.72	19.18	PCD1170TR-ND	3,000	117.00/M	ELJ-ND68NJF
82nH	5%	15	40	100	1100	.63	330	PCD1171CT-ND	.27	12.72	19.18	PCD1171TR-ND	3,000	117.00/M	ELJ-ND82NJF
100nH	5%	8	35	25.2	800	.86	285	PCD1172CT-ND	.27	12.72	19.18	PCD1172TR-ND	3,000	117.00/M	ELJ-NDR10JF
120nH	5%	8	—	25.2	600	.99	275	PCD1173CT-ND	.27	12.72	19.18	PCD1173TR-ND	3,000	117.00/M	ELJ-NDR12JF
150nH	5%	10	—	25.2	600	1.47	230	PCD1174CT-ND	.27	12.72	19.18	PCD1174TR-ND	3,000	117.00/M	ELJ-NDR15JF
180nH	5%	10	—	25.2	600	1.61	195	PCD1175CT-ND	.27	12.72	19.18	PCD1175TR-ND	3,000	117.00/M	ELJ-NDR18JF
220nH	5%	10	—	25.2	500	1.84	170	PCD1176CT-ND	.27	12.72	19.18	PCD1176TR-ND	3,000	117.00/M	ELJ-NDR22JF
270nH	5%	10	—	25.2	300	1.95	165	PCD1177CT-ND	.27	12.72	19.18	PCD1177TR-ND	3,000	117.00/M	ELJ-NDR27JF
470nH	5%	10	—	25.2	150	2.56	145	PCD1180CT-ND	.27	12.72	19.18	PCD1180TR-ND	3,000	117.00/M	ELJ-NDR47JF
560nH	5%	10	—	25.2	100	2.69	140	PCD1181CT-ND	.27	12.72	19.18	PCD1181TR-ND	3,000	117.00/M	ELJ-NDR56JF
680nH	5%	10	—	25.2	100	3.02	130	PCD1182CT-ND	.27	12.72	19.18	PCD1182TR-ND	3,000	117.00/M	ELJ-NDR68JF
820nH	5%	10	—	25.2	80	3.38	125	PCD1183CT-ND	.27	12.72	19.18	PCD1183TR-ND	3,000	117.00/M	ELJ-NDR82JF
1000nH	5%	8	—	7.96	80	3.88	120	PCD1184CT-ND	.27	12.72	19.18	PCD1184TR-ND	3,000	117.00/M	ELJ-ND1R0JF
Fig. 4, 1008 (2520) — Type NC (10% Tolerance)															
15nH	10%	10	—	100	1800	0.38	255	PCD1039CT-ND	.22	10.21	15.39	PCD1039TR-ND	2,000	94.00/M	ELJ-NC15NKF
18nH	10%	10	—	100	1550	0.40	250	PCD1040CT-ND	.22	10.21	15.39	PCD1040TR-ND	2,000	94.00/M	ELJ-NC18NKF
33nH	10%	15	—	100	1000	0.51	220	PCD1043CT-ND	.22	10.21	15.39	PCD1043TR-ND	2,000	94.00/M	ELJ-NC33NKF
39nH	10%	15	—	100	890	0.55	215	PCD1044CT-ND	.22	10.21	15.39	PCD1044TR-ND	2,000	94.00/M	ELJ-NC39NKF
47nH	10%	15	—	100	770	0.59	205	PCD1045CT-ND	.22	10.21	15.39	PCD1045TR-ND	2,000	94.00/M	ELJ-NC47NKF
56nH	10%	15	—	100	670	0.63	200	PCD1046CT-ND	.22	10.21	15.39	PCD1046TR-ND	2,000	94.00/M	ELJ-NC56NKF
68nH	10%	15	—	100	590	0.68	190	PCD1047CT-ND	.22	10.21	15.39	PCD1047TR-ND	2,000	94.00/M	ELJ-NC68NKF
82nH	10%	15	—	100	520	0.73	185	PCD1048CT-ND	.22	10.21	15.39	PCD1048TR-ND	2,000	94.00/M	ELJ-NC82NKF
Fig. 4, 1008 (2520) — Type NC (10% Tolerance) — RoHS Compliant															
10nH	10%	10	—	100	2500	0.32	280	PCD1037CT-ND	.22	10.21	15.39	PCD1037TR-ND	2,000	94.00/M	ELJ-NC10NKF
12nH	10%	10	—	100	2200	0.34	270	PCD1038CT-ND	.22	10.21	15.39	PCD1038TR-ND	2,000	94.00/M	ELJ-NC12NKF
22nH	10%	15	—	100	1350	0.43	240	PCD1041CT-ND	.22	10.21	15.39	PCD1041TR-ND	2,000	94.00/M	ELJ-NC22NKF
27nH	10%	15	—	100	1150	0.47	230	PCD1042CT-ND	.22	10.21	15.39	PCD1042TR-ND	2,000	94.00/M	ELJ-NC27NKF
100nH	10%	10	—	25.2	460	0.80	175	PCD1049CT-ND	.22	10.21	15.39	PCD1049TR-ND	2,000	94.00/M	ELJ-NCR10KF
120nH	10%	10	—	25.2	400	0.87	170	PCD1050CT-ND	.22	10.21	15.39	PCD1050TR-ND	2,000	94.00/M	ELJ-NCR12KF
150nH	10%	10	—	25.2	340	0.98	160	PCD1051CT-ND	.22	10.21	15.39	PCD1051TR-ND	2,000	94.00/M	ELJ-NCR15KF
180nH	10%	10	—	25.2	300	1.05	155	PCD1052CT-ND	.22	10.21	15.39	PCD1052TR-ND	2,000	94.00/M	ELJ-NCR18KF
Fig. 4, 1008 (2520) — Type NC (5% Tolerance)															
68nH	5%	15	—	100	590	0.68	190	PCD1206CT-ND	.22	10.21	15.39	PCD1206TR-ND	2,000	94.00/M	ELJ-NC68NJF
Fig. 4, 1008 (2520) — Type NC (5% Tolerance) — RoHS Compliant															
33nH	5%	15	—	100	1000	0.51	220	PCD1202CT-ND	.22	10.21	15.39	PCD1202TR-ND	2,000	94.00/M	ELJ-NC33NJF
39nH	5%	15	—	100	890	0.55	215	PCD1203CT-ND	.22	10.21	15.39	PCD1203TR-ND	2,000	94.00/M	ELJ-NC39NJF
47nH	5%	15	—	100	770	0.59	205	PCD1204CT-ND	.22	10.21	15.39	PCD1204TR-ND	2,000	94.00/M	ELJ-NC47NJF
56nH	5%	15	—	100	670	0.63	200	PCD1205CT-ND	.22	10.21	15.39	PCD1205TR-ND	2,000	94.00/M	ELJ-NC56NJF
82nH	5%	15	—	100	520	0.73	185	PCD1207CT-ND	.22	10.21	15.39	PCD1207TR-ND	2,000	94.00/M	ELJ-NC82NJF
100nH	5%	10	—	25.2	460	0.80	175	PCD1208CT-ND	.22	10.21	15.39	PCD1208TR-ND	2,000	94.00/M	ELJ-NCR10JF
120nH	5%	10	—	25.2	400	0.87	170	PCD1209CT-ND	.22	10.21	15.39	PCD1209TR-ND	2,000	94.00/M	ELJ-NCR12JF
150nH	5%	10	—	25.2	340	0.98	160	PCD1210CT-ND	.22	10.21	15.39	PCD1210TR-ND	2,000	94.00/M	ELJ-NCR15JF
180nH	5%	10	—	25.2	300	1.05	155	PCD1211CT-ND	.22	10.21	15.39	PCD1211TR-ND	2,000	94.00/M	ELJ-NCR18JF
220nH	5%	10	—	25.2	260	1.15	145	PCD1212CT-ND	.22	10.21	15.39	PCD1212TR-ND	2,000	94.00/M	ELJ-NCR22JF

(Continued)

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Induc-tance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
270nH	5%	10	—	25.2	230	1.25	140	PCD1213CT-ND	.22	10.21	15.39	PCD1213TR-ND	2,000	94.00/M	ELJ-NCR27JF
330nH	5%	10	—	25.2	200	1.37	135	PCD1214CT-ND	.22	10.21	15.39	PCD1214TR-ND	2,000	94.00/M	ELJ-NCR33JF
390nH	5%	10	—	25.2	180	1.47	130	PCD1215CT-ND	.22	10.21	15.39	PCD1215TR-ND	2,000	94.00/M	ELJ-NCR39JF
470nH	5%	10	—	25.2	160	1.58	125	PCD1216CT-ND	.22	10.21	15.39	PCD1216TR-ND	2,000	94.00/M	ELJ-NCR47JF
560nH	5%	10	—	25.2	145	1.70	120	PCD1217CT-ND	.22	10.21	15.39	PCD1217TR-ND	2,000	94.00/M	ELJ-NCR56JF
680nH	5%	10	—	25.2	130	1.85	110	PCD1218CT-ND	.22	10.21	15.39	PCD1218TR-ND	2,000	94.00/M	ELJ-NCR68JF
820nH	5%	10	—	25.2	100	2.10	100	PCD1219CT-ND	.22	10.21	15.39	PCD1219TR-ND	2,000	94.00/M	ELJ-NCR82JF
Fig. 4, 1008 (2520) — Type FC (20% Tolerance)															
0.22µH	20%	25	—	25.2	230	0.7	190	PCD1053CT-ND	.22	10.21	15.39	PCD1053TR-ND	2,000	94.00/M	ELJ-FCR22MF
0.33µH	20%	25	—	25.2	190	0.85	170	PCD1055CT-ND	.22	10.21	15.39	PCD1055TR-ND	2,000	94.00/M	ELJ-FCR33MF
0.39µH	20%	25	—	25.2	175	0.95	160	PCD1056CT-ND	.22	10.21	15.39	PCD1056TR-ND	2,000	94.00/M	ELJ-FCR39MF
0.47µH	20%	25	—	25.2	160	1.0	155	PCD1057CT-ND	.22	10.21	15.39	PCD1057TR-ND	2,000	94.00/M	ELJ-FCR47MF
0.56µH	20%	25	—	25.2	150	1.1	150	PCD1058CT-ND	.22	10.21	15.39	PCD1058TR-ND	2,000	94.00/M	ELJ-FCR56MF
0.68µH	20%	25	—	25.2	135	1.25	140	PCD1059CT-ND	.22	10.21	15.39	PCD1059TR-ND	2,000	94.00/M	ELJ-FCR68MF
0.82µH	20%	25	—	25.2	125	1.4	130	PCD1060CT-ND	.22	10.21	15.39	PCD1060TR-ND	2,000	94.00/M	ELJ-FCR82MF
Fig. 4, 1008 (2520) — Type FC (20% Tolerance) — RoHS Compliant															
0.27µH	20%	25	—	25.2	210	0.75	180	PCD1054CT-ND	.22	10.21	15.39	PCD1054TR-ND	2,000	94.00/M	ELJ-FCR27MF
Fig. 4, 1008 (2520) — Type FC (10% Tolerance)															
0.22µH	10%	25	—	25.2	230	0.70	190	PCD1220CT-ND	.22	10.21	15.39	PCD1220TR-ND	2,000	94.00/M	ELJ-FCR22KF
0.33µH	10%	25	—	25.2	190	0.85	170	PCD1222CT-ND	.22	10.21	15.39	PCD1222TR-ND	2,000	94.00/M	ELJ-FCR33KF
0.39µH	10%	25	—	25.2	175	0.95	160	PCD1223CT-ND	.22	10.21	15.39	PCD1223TR-ND	2,000	94.00/M	ELJ-FCR39KF
0.56µH	10%	25	—	25.2	150	1.10	150	PCD1225CT-ND	.22	10.21	15.39	PCD1225TR-ND	2,000	94.00/M	ELJ-FCR56KF
1.5µH	10%	25	—	7.96	90	0.85	170	PCD1063CT-ND	.22	10.21	15.39	PCD1063TR-ND	2,000	94.00/M	ELJ-FC1R5KF
8.2µH	10%	25	—	7.96	40	2.2	105	PCD1072CT-ND	.22	10.21	15.39	PCD1072TR-ND	2,000	94.00/M	ELJ-FC8R2KF
12µH	10%	25	—	2.52	30	3.8	75	PCD1074CT-ND	.22	10.21	15.39	PCD1074TR-ND	2,000	94.00/M	ELJ-FC120KF
15µH	10%	25	—	2.52	28	4.4	70	PCD1075CT-ND	.22	10.21	15.39	PCD1075TR-ND	2,000	94.00/M	ELJ-FC150KF
18µH	10%	25	—	2.52	25	5.0	65	PCD1076CT-ND	.22	10.21	15.39	PCD1076TR-ND	2,000	94.00/M	ELJ-FC180KF
Fig. 4, 1008 (2520) — Type FC (10% Tolerance) — RoHS Compliant															
0.27µH	10%	25	—	25.2	210	0.75	180	PCD1221CT-ND	.22	10.21	15.39	PCD1221TR-ND	2,000	94.00/M	ELJ-FCR27KF
0.47µH	10%	25	—	25.2	160	1.00	155	PCD1224CT-ND	.22	10.21	15.39	PCD1224TR-ND	2,000	94.00/M	ELJ-FCR47KF
0.68µH	10%	25	—	25.2	135	1.25	140	PCD1226CT-ND	.22	10.21	15.39	PCD1226TR-ND	2,000	94.00/M	ELJ-FCR68KF
0.82µH	10%	25	—	25.2	125	1.40	130	PCD1227CT-ND	.22	10.21	15.39	PCD1227TR-ND	2,000	94.00/M	ELJ-FCR82KF
1.0µH	10%	25	—	7.96	115	0.65	195	PCD1061CT-ND	.22	10.21	15.39	PCD1061TR-ND	2,000	94.00/M	ELJ-FC1R0KF
1.2µH	10%	25	—	7.96	100	0.75	180	PCD1062CT-ND	.22	10.21	15.39	PCD1062TR-ND	2,000	94.00/M	ELJ-FC1R2KF
1.8µH	10%	25	—	7.96	85	0.95	160	PCD1064CT-ND	.22	10.21	15.39	PCD1064TR-ND	2,000	94.00/M	ELJ-FC1R8KF
2.2µH	10%	25	—	7.96	80	1.05	155	PCD1065CT-ND	.22	10.21	15.39	PCD1065TR-ND	2,000	94.00/M	ELJ-FC2R2KF
2.7µH	10%	25	—	7.96	75	1.2	145	PCD1066CT-ND	.22	10.21	15.39	PCD1066TR-ND	2,000	94.00/M	ELJ-FC2R7KF
3.3µH	10%	25	—	7.96	65	1.3	135	PCD1067CT-ND	.22	10.21	15.39	PCD1067TR-ND	2,000	94.00/M	ELJ-FC3R3KF
3.9µH	10%	25	—	7.96	60	1.4	130	PCD1068CT-ND	.22	10.21	15.39	PCD1068TR-ND	2,000	94.00/M	ELJ-FC3R9KF
4.7µH	10%	25	—	7.96	55	1.55	125	PCD1069CT-ND	.22	10.21	15.39	PCD1069TR-ND	2,000	94.00/M	ELJ-FC4R7KF
5.6µH	10%	25	—	7.96	50	1.75	120	PCD1070CT-ND	.22	10.21	15.39	PCD1070TR-ND	2,000	94.00/M	ELJ-FC5R6KF
6.8µH	10%	25	—	7.96	45	1.95	115	PCD1071CT-ND	.22	10.21	15.39	PCD1071TR-ND	2,000	94.00/M	ELJ-FC6R8KF
10µH	10%	25	—	2.52	32	3.5	80	PCD1073CT-ND	.22	10.21	15.39	PCD1073TR-ND	2,000	94.00/M	ELJ-FC100KF
22µH	10%	25	—	2.52	22	5.8	60	PCD1077CT-ND	.22	10.21	15.39	PCD1077TR-ND	2,000	94.00/M	ELJ-FC220KF
Fig. 4, 1008 (2520) — Type FC (5% Tolerance)															
1.5µH	5%	25	—	7.96	90	0.85	170	PCD1230CT-ND	.22	10.21	15.39	PCD1230TR-ND	2,000	94.00/M	ELJ-FC1R5JF
39µH	5%	20	—	2.52	18	9.5	90	PCD1247CT-ND	.22	10.21	15.39	PCD1247TR-ND	2,000	94.00/M	ELJ-FC390JF
Fig. 4, 1008 (2520) — Type FC (5% Tolerance) — RoHS Compliant															
1.0µH	5%	25	—	7.96	115	0.65	195	PCD1228CT-ND	.22	10.21	15.39	PCD1228TR-ND	2,000	94.00/M	ELJ-FC1R0JF
1.2µH	5%	25	—	7.96	100	0.75	180	PCD1229CT-ND	.22	10.21	15.39	PCD1229TR-ND	2,000	94.00/M	ELJ-FC1R2JF
1.8µH	5%	25	—	7.96	85	0.95	160	PCD1231CT-ND	.22	10.21	15.39	PCD1231TR-ND	2,000	94.00/M	ELJ-FC1R8JF
2.2µH	5%	25	—	7.96	80	1.05	155	PCD1232CT-ND	.22	10.21	15.39	PCD1232TR-ND	2,000	94.00/M	ELJ-FC2R2JF
2.7µH	5%	25	—	7.96	75	1.20	145	PCD1233CT-ND	.22	10.21	15.39	PCD1233TR-ND	2,000	94.00/M	ELJ-FC2R7JF
3.3µH	5%	25	—	7.96	65	1.30	135	PCD1234CT-ND	.22	10.21	15.39	PCD1234TR-ND	2,000	94.00/M	ELJ-FC3R3JF
3.9µH	5%	25	—	7.96	60	1.40	130	PCD1235CT-ND	.22	10.21	15.39	PCD1235TR-ND	2,000	94.00/M	ELJ-FC3R9JF
4.7µH	5%	25	—	7.96	55	1.55	125	PCD1236CT-ND	.22	10.21	15.39	PCD1236TR-ND	2,000	94.00/M	ELJ-FC4R7JF
5.6µH	5%	25	—	7.96	50	1.75	120	PCD1237CT-ND	.22	10.21	15.39	PCD1237TR-ND	2,000	94.00/M	ELJ-FC5R6JF
6.8µH	5%	25	—	7.96	45	1.95	115	PCD1238CT-ND	.22	10.21	15.39	PCD1238TR-ND	2,000	94.00/M	ELJ-FC6R8JF
8.2µH	5%	25	—	7.96	40	2.2	105	PCD1239CT-ND	.22	10.21	15.39	PCD1239TR-ND	2,000	94.00/M	ELJ-FC8R2JF
10µH	5%	25	—	2.52	32	3.5	80	PCD1240CT-ND	.22	10.21	15.39	PCD1240TR-ND	2,000	94.00/M	ELJ-FC100JF
12µH	5%	25	—	2.52	30	3.8	75	PCD1241CT-ND	.22	10.21	15.39	PCD1241TR-ND	2,000	94.00/M	ELJ-FC120JF
15µH	5%	25	—	2.52	28	4.4	70	PCD1242CT-ND	.22	10.21	15.39	PCD1242TR-ND	2,000	94.00/M	ELJ-FC150JF
18µH	5%	25	—	2.52	25	5.0	65	PCD1243CT-ND	.22	10.21	15.39	PCD1243TR-ND	2,000	94.00/M	ELJ-FC180JF
22µH	5%	25	—	2.52	22	5.8	60	PCD1244CT-ND	.22	10.21	15.39	PCD1244TR-ND	2,000	94.00/M	ELJ-FC220JF
27µH	5%	20	—	2.52	21	6.3	115	PCD1245CT-ND	.22	10.21	15.39	PCD1245TR-ND	2,000	94.00/M	ELJ-FC270JF
33µH	5%	20	—	2.52	20	7.1	110	PCD1246CT-ND	.22	10.21	15.39	PCD1246TR-ND	2,000	94.00/M	ELJ-FC330JF
47µH	5%	20	—	2.52	17	11.0	80	PCD1248CT-ND	.22	10.21	15.39	PCD1248TR-ND	2,000	94.00/M	ELJ-FC470JF
56µH	5%	20	—	2.52	16	12.1	75	PCD1249CT-ND	.22	10.21	15.39	PCD1249TR-ND	2,000	94.00/M	ELJ-FC560JF
68µH	5%	20	—	2.52	15	16.6	70	PCD1250CT-ND	.22	10.21	15.39	PCD1250TR-ND	2,000	94.00/M	ELJ-FC680JF
82µH	5%	20	—	2.52	13	19.0	65	PCD1251CT-ND	.22	10.21	15.39	PCD1251TR-ND	2,000	94.00/M	ELJ-FC820JF
100µH	5%	15	—	0.796	12	21.0	60	PCD1252CT-ND	.22	10.21	15.39	PCD1252TR-ND	2,000	94.00/M	ELJ-FC101JF
Fig. 4, 1008 (2520) — Type SC (10% Tolerance)															
33µH	10%	40	—	2.52	18	5.2	14	PCD1079CT-ND	.22	10.42	15.70	PCD1079TR-ND	2,000	96.00/M	ELJ-SC330KF
39µH	10%	40	—	2.52	15	5.7	13	PCD1080CT-ND	.22	10.42	15.70	PCD1080TR-ND	2,000	96.00/M	ELJ-SC390KF
56µH	10%	40	—	2.52	13	7.1	10	PCD1082CT-ND	.22	10.42	15.70	PCD1082TR-ND	2,000	96.00/M	ELJ-SC560KF
68µH	10%	25	—	2.52	13	6.5	17	PCD1083CT-ND	.22	10.42	15.70	PCD1083TR-ND	2,000	96.00/M	ELJ-SC680KF
82µH	10%	25	—	2.52	13	7.4	14	PCD1084CT-ND	.22	10.42	15.70	PCD1084TR-ND	2,000	96.00/M	ELJ-SC820KF
Fig. 4, 1008 (2520) — Type SC (10% Tolerance) — RoHS Compliant															
27µH	10%	40	—	2.52	20	4.5	18	PCD1078CT-ND	.22	10.42	15.70	PCD1078TR-ND	2,000	96.00/M	ELJ-SC270KF
47µH	10%	40	—	2.52	14	6.6	12	PCD1081CT-ND	.22	10.42	15.70	PCD1081TR-ND	2,000	96.00/M	ELJ-SC470KF
100µH	10%	25	—	0.796	12	8.4	10	PCD1085CT-ND	.22	10.42	15.70	PCD1085TR-ND	2,000	96.00/M	ELJ-SC101KF
Fig. 4, 1008 (2520) — Type PC															
1.5µH	20%	10	—	7.96	85	0.55	435	PCD1087CT-ND	.22	10.21	15.39	PCD1087TR-ND	2,000	94.00/M	ELJ-PC1R5MF
2.2µH	20%	10	—	7.96	65	0.65	390	PCD1088CT-ND	.22	10.21	15.39	PCD1088TR-ND	2,000	94.00/M	ELJ-PC2R2MF
Fig. 4, 1008 (2520) — Type PC — RoHS Compliant															
1.0µH	20%	10	—	7.96	95	0.45	475	PCD1086CT-ND	.22	10.21	15.39	PCD1086TR-ND	2,000	94.00/M	ELJ-PC1R0MF
3.3µH	20%	8	—	7.96	55	0.85	340	PCD1089CT-ND	.22	10.21	15.39	PCD1089TR-ND	2,000	94.00/M	ELJ-PC3R3MF
4.7µH	20%	8	—	7.96	43	1.2	285	PCD1090CT-ND	.22	10.21	15.39	PCD1090TR-ND	2,000	94.00/M	ELJ-PC4R7MF
6.8µH	10%	8	—	7.96	39	1.3	275	PCD1091CT-ND	.22	10.21	15.39	PCD1091TR-ND	2,000	94.00/M	ELJ-PC6R8KF
10µH	10%	20	—	2.52	32	2.2	210	PCD1092CT-ND	.22	10.21	15.39	PCD1092TR-ND	2,000	94.00/M	ELJ-PC100KF
12µH	10%	20	—	2.52	25	2.7	195	PCD1093CT-ND	.22	10.21	15.39	PCD1093TR-ND	2,000	94.00/M	ELJ-PC120KF
15µH	10%	20	—	2.52	21	3.2	175	PCD1094CT-ND	.22	10.21	15.39	PCD1094TR-ND	2,000	94.00/M	ELJ-PC150KF
22µH	10%	20	—	2.52	18	4.0	160	PCD1095CT-ND	.22	10.21	15.39	PCD1095TR-ND	2,000	94.00/M	ELJ-PC220KF
33µH	10%	20	—	2.52	16	6.5	120	PCD1096CT-ND	.22	10.21	15.39	PCD1096TR-ND	2,000	94.00/M	ELJ-PC330KF
NEW! Fig. 5, 1210 (3225) — Type DA “Super Low Distortion” — RoHS Compliant NEW!															
39µH	5%	21	—	2.52	11	5.2	110	PCD2329CT-ND	.37	17.14	25.85	PCD2329TR-ND	2,000	158.00/M	ELJ-DA390JF
47µH	5%	21	—	2.52	10	5.9	105	PCD2330CT-ND	.37	17.14	25.85	PCD2330TR-ND	2,000	158.00/M	ELJ-DA470JF
56µH	5%	21	—	2.52	8.5	6.5	100	PCD2331CT-ND	.37	17.14	25.85	PCD2331TR-ND	2,000	158.00/M	ELJ-DA560JF
68µH	5%	21	—	2.52	7.5	9.0	85	PCD2332CT-ND	.37	17.14	25.85	PCD2332TR-ND	2,000	158.00/M	ELJ-DA680JF
82µH	5%	19	—	2.52	7.0	10.0	80	PCD2333CT-ND	.37	17.14	25.85	PCD2333TR-ND	2,000	158.00/M	ELJ-DA820JF
100µH	5%	24	—	0.796	7.0	13.0	70	PCD2334CT-ND	.37	17.14	25.85	PCD2334TR-ND	2,000	158.00/M	ELJ-DA101JF
Fig. 5, 1210 (3225) — Type FA															
0.27µH	20%	25	—	25.2	210	0.32	345	PCD1001CT-ND	.22	10.21	15.39	PCD1001TR-ND	2,000	94.00/M	ELJ-FAR27MF2
0.39µH	20%	25	—	25.2	175	0.39	305	PCD1003CT-ND	.22	10.21	15.39	PCD1003TR-ND	2,000	94.00/M	ELJ-FAR39MF2
0.68µH	20%	25	—	25.2	135	0.55	260	PCD1006CT-ND	.22	10.21	15.39	PCD1006TR-ND	2,000	94.00/M	ELJ-FAR68MF2
1.2µH	10%	30	—	7.96	100	0.75	215	PCD1009CT-ND	.22	10.21	15.39	PCD1009TR-ND	2,000	94.00/M	ELJ-FA1R2KF2

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Induc-tance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
3.9µH	10%	30	—	7.96	60	1.3	175	PCD1015CT-ND	.22	10.21	15.39	PCD1015TR-ND	2,000	94.00/M	ELJ-FA3R9KF
5.6µH	10%	30	—	7.96	50	1.6	160	PCD1261CT-ND	.22	10.21	15.39	PCD1261TR-ND	2,000	94.00/M	ELJ-FA5R6KF
6.8µH	10%	30	—	7.96	45	1.8	150	PCD1262CT-ND	.22	10.21	15.39	PCD1262TR-ND	2,000	94.00/M	ELJ-FA6R8KF
8.2µH	10%	30	—	7.96	40	2.0	140	PCD1263CT-ND	.22	10.21	15.39	PCD1263TR-ND	2,000	94.00/M	ELJ-FA8R2KF
33µH	10%	30	—	2.52	20	5.6	85	PCD1026CT-ND	.22	10.21	15.39	PCD1026TR-ND	2,000	94.00/M	ELJ-FA330KF
56µH	10%	30	—	2.52	15	8.0	70	PCD1029CT-ND	.22	10.21	15.39	PCD1029TR-ND	2,000	94.00/M	ELJ-FA560KF
Fig. 5, 1210 (3225) — Type FA — RoHS Compliant															
0.22µH	20%	25	—	25.2	230	0.29	360	PCD1000CT-ND	.22	10.21	15.39	PCD1000TR-ND	2,000	94.00/M	ELJ-FAR22MF2
0.33µH	20%	25	—	25.2	190	0.35	330	PCD1002CT-ND	.22	10.21	15.39	PCD1002TR-ND	2,000	94.00/M	ELJ-FAR33MF2
0.47µH	20%	25	—	25.2	160	0.44	290	PCD1004CT-ND	.22	10.21	15.39	PCD1004TR-ND	2,000	94.00/M	ELJ-FAR47MF2
0.56µH	20%	25	—	25.2	150	0.49	275	PCD1005CT-ND	.22	10.21	15.39	PCD1005TR-ND	2,000	94.00/M	ELJ-FAR56MF2
0.82µH	20%	25	—	25.2	125	0.61	245	PCD1007CT-ND	.22	10.21	15.39	PCD1007TR-ND	2,000	94.00/M	ELJ-FAR82MF2
1.0µH	10%	30	—	7.96	115	0.69	230	PCD1008CT-ND	.22	10.21	15.39	PCD1008TR-ND	2,000	94.00/M	ELJ-FA1R0KF2
1.5µH	10%	30	—	7.96	90	0.75	210	PCD1010CT-ND	.22	10.21	15.39	PCD1010TR-ND	2,000	94.00/M	ELJ-FA1R5KF
1.8µH	10%	30	—	7.96	85	0.82	200	PCD1011CT-ND	.22	10.21	15.39	PCD1011TR-ND	2,000	94.00/M	ELJ-FA1R8KF
2.2µH	10%	30	—	7.96	80	0.95	190	PCD1012CT-ND	.22	10.21	15.39	PCD1012TR-ND	2,000	94.00/M	ELJ-FA2R2KF
2.7µH	10%	30	—	7.96	75	1.1	180	PCD1013CT-ND	.22	10.21	15.39	PCD1013TR-ND	2,000	94.00/M	ELJ-FA2R7KF
3.3µH	10%	30	—	7.96	65	1.2	180	PCD1014CT-ND	.22	10.21	15.39	PCD1014TR-ND	2,000	94.00/M	ELJ-FA3R3KF
4.7µH	10%	30	—	7.96	55	1.5	165	PCD1016CT-ND	.22	10.21	15.39	PCD1016TR-ND	2,000	94.00/M	ELJ-FA4R7KF
10µH	10%	30	—	2.52	36	2.1	140	PCD1020CT-ND	.22	10.21	15.39	PCD1020TR-ND	2,000	94.00/M	ELJ-FA100KF
12µH	10%	30	—	2.52	33	2.5	125	PCD1021CT-ND	.22	10.21	15.39	PCD1021TR-ND	2,000	94.00/M	ELJ-FA120KF
15µH	10%	30	—	2.52	30	2.8	120	PCD1022CT-ND	.22	10.21	15.39	PCD1022TR-ND	2,000	94.00/M	ELJ-FA150KF
18µH	10%	30	—	2.52	27	3.3	110	PCD1023CT-ND	.22	10.21	15.39	PCD1023TR-ND	2,000	94.00/M	ELJ-FA180KF
22µH	10%	30	—	2.52	25	3.7	105	PCD1024CT-ND	.22	10.21	15.39	PCD1024TR-ND	2,000	94.00/M	ELJ-FA220KF
27µH	10%	30	—	2.52	22	5.0	90	PCD1025CT-ND	.22	10.21	15.39	PCD1025TR-ND	2,000	94.00/M	ELJ-FA270KF
39µH	10%	30	—	2.52	20	6.4	80	PCD1027CT-ND	.22	10.21	15.39	PCD1027TR-ND	2,000	94.00/M	ELJ-FA390KF
47µH	10%	30	—	2.52	15	7.0	75	PCD1028CT-ND	.22	10.21	15.39	PCD1028TR-ND	2,000	94.00/M	ELJ-FA470KF
68µH	10%	30	—	2.52	15	9.0	65	PCD1030CT-ND	.22	10.21	15.39	PCD1030TR-ND	2,000	94.00/M	ELJ-FA680KF
82µH	10%	30	—	2.52	11	10.0	60	PCD1031CT-ND	.22	10.21	15.39	PCD1031TR-ND	2,000	94.00/M	ELJ-FA820KF
100µH	10%	20	—	0.796	10	10.0	60	PCD1032CT-ND	.22	10.21	15.39	PCD1032TR-ND	2,000	94.00/M	ELJ-FA101KF
120µH	10%	20	—	0.796	10	11.0	55	PCD1033CT-ND	.22	10.21	15.39	PCD1033TR-ND	2,000	94.00/M	ELJ-FA121KF
150µH	10%	20	—	0.796	8.0	15.0	50	PCD1034CT-ND	.22	10.21	15.39	PCD1034TR-ND	2,000	94.00/M	ELJ-FA151KF
180µH	10%	20	—	0.796	7.0	17.0	50	PCD1035CT-ND	.22	10.21	15.39	PCD1035TR-ND	2,000	94.00/M	ELJ-FA181KF
220µH	10%	20	—	0.796	7.0	21.0	45	PCD1036CT-ND	.22	10.21	15.39	PCD1036TR-ND	2,000	94.00/M	ELJ-FA221KF
Fig. 5, 1210 (3225) — Type FA (5% Tolerance)															
18µH	5%	30	—	2.52	27	3.3	110	PCD1823CT-ND	.22	10.21	15.39	PCD1823TR-ND	2,000	94.00/M	ELJ-FA180JF
220µH	5%	20	—	0.796	7	21	45	PCD1830CT-ND	.22	10.21	15.39	PCD1830TR-ND	2,000	94.00/M	ELJ-FA221JF
Fig. 5, 1210 (3225) — Type FA (5% Tolerance) — RoHS Compliant															
1.0µH	5%	30	—	7.96	115	0.69	230	PCD1825CT-ND	.22	10.21	15.39	PCD1825TR-ND	2,000	94.00/M	ELJ-FA1R0JF2
1.2µH	5%	30	—	7.96	100	0.75	215	PCD1826CT-ND	.22	10.21	15.39	PCD1826TR-ND	2,000	94.00/M	ELJ-FA1R2JF2
1.5µH	5%	30	—	7.96	90	0.75	210	PCD1827CT-ND	.22	10.21	15.39	PCD1827TR-ND	2,000	94.00/M	ELJ-FA1R5JF
1.8µH	5%	30	—	7.96	85	0.82	200	PCD1828CT-ND	.22	10.21	15.39	PCD1828TR-ND	2,000	94.00/M	ELJ-FA1R8JF
2.2µH	5%	30	—	7.96	80	0.95	190	PCD1832CT-ND	.22	10.21	15.39	PCD1832TR-ND	2,000	94.00/M	ELJ-FA2R2JF
2.7µH	5%	30	—	7.96	75	1.1	180	PCD1833CT-ND	.22	10.21	15.39	PCD1833TR-ND	2,000	94.00/M	ELJ-FA2R7JF
3.3µH	5%	30	—	7.96	65	1.2	180	PCD1836CT-ND	.22	10.21	15.39	PCD1836TR-ND	2,000	94.00/M	ELJ-FA3R3JF
3.9µH	5%	30	—	7.96	60	1.3	175	PCD1837CT-ND	.22	10.21	15.39	PCD1837TR-ND	2,000	94.00/M	ELJ-FA3R9JF
4.7µH	5%	30	—	7.96	55	1.5	165	PCD1839CT-ND	.22	10.21	15.39	PCD1839TR-ND	2,000	94.00/M	ELJ-FA4R7JF
5.6µH	5%	30	—	7.96	50	1.6	160	PCD1841CT-ND	.22	10.21	15.39	PCD1841TR-ND	2,000	94.00/M	ELJ-FA5R6JF
6.8µH	5%	30	—	7.96	45	1.8	150	PCD1843CT-ND	.22	10.21	15.39	PCD1843TR-ND	2,000	94.00/M	ELJ-FA6R8JF
8.2µH	5%	30	—	7.96	40	2.0	140	PCD1845CT-ND	.22	10.21	15.39	PCD1845TR-ND	2,000	94.00/M	ELJ-FA8R2JF
10µH	5%	30	—	2.52	36	2.1	140	PCD1817CT-ND	.22	10.21	15.39	PCD1817TR-ND	2,000	94.00/M	ELJ-FA100JF
12µH	5%	30	—	2.52	33	2.5	125	PCD1819CT-ND	.22	10.21	15.39	PCD1819TR-ND	2,000	94.00/M	ELJ-FA120JF
15µH	5%	30	—	2.52	30	2.8	120	PCD1821CT-ND	.22	10.21	15.39	PCD1821TR-ND	2,000	94.00/M	ELJ-FA150JF
22µH	5%	30	—	2.52	25	3.7	105	PCD1829CT-ND	.22	10.21	15.39	PCD1829TR-ND	2,000	94.00/M	ELJ-FA220JF
27µH	5%	30	—	2.52	22	5.0	90	PCD1831CT-ND	.22	10.21	15.39	PCD1831TR-ND	2,000	94.00/M	ELJ-FA270JF
33µH	5%	30	—	2.52	20	5.6	85	PCD1834CT-ND	.22	10.21	15.39	PCD1834TR-ND	2,000	94.00/M	ELJ-FA330JF
39µH	5%	30	—	2.52	20	6.4	80	PCD1835CT-ND	.22	10.21	15.39	PCD1835TR-ND	2,000	94.00/M	ELJ-FA390JF
47µH	5%	30	—	2.52	15	7.0	75	PCD1838CT-ND	.22	10.21	15.39	PCD1838TR-ND	2,000	94.00/M	ELJ-FA470JF
56µH	5%	30	—	2.52	15	8.0	70	PCD1840CT-ND	.22	10.21	15.39	PCD1840TR-ND	2,000	94.00/M	ELJ-FA560JF
68µH	5%	30	—	2.52	15	9.0	65	PCD1842CT-ND	.22	10.21	15.39	PCD1842TR-ND	2,000	94.00/M	ELJ-FA680JF
82µH	5%	30	—	2.52	11	10	60	PCD1844CT-ND	.22	10.21	15.39	PCD1844TR-ND	2,000	94.00/M	ELJ-FA820JF
100µH	5%	20	—	0.796	10	10	60	PCD1818CT-ND	.22	10.21	15.39	PCD1818TR-ND	2,000	94.00/M	ELJ-FA101JF
120µH	5%	20	—	0.796	10	11	55	PCD1820CT-ND	.22	10.21	15.39	PCD1820TR-ND	2,000	94.00/M	ELJ-FA121JF
150µH	5%	20	—	0.796	8	15	50	PCD1822CT-ND	.22	10.21	15.39	PCD1822TR-ND	2,000	94.00/M	ELJ-FA151JF
180µH	5%	20	—	0.796	7	17	50	PCD1824CT-ND	.22	10.21	15.39	PCD1824TR-ND	2,000	94.00/M	ELJ-FA181JF
Fig. 5, 1210 (3225) — Type FA (5% Tolerance) "Low Distortion" — for ADSL Modem use — RoHS Compliant															
39µH	5%	30	—	2.52	20	6.4	80	PCD2321CT-ND	.23	10.86	16.37	PCD2321TR-ND	2,000	100.00/M	ELJ-FA390JFD
47µH	5%	30	—	2.52	15	7.0	75	PCD2322CT-ND	.23	10.86	16.37	PCD2322TR-ND	2,000	100.00/M	ELJ-FA470JFD
68µH	5%	30	—	2.52	15	9.0	65	PCD2323CT-ND	.23	10.86	16.37	PCD2323TR-ND	2,000	100.00/M	ELJ-FA680JFD
82µH	5%	30	—	2.52	10	10	60	PCD2324CT-ND	.23	10.86	16.37	PCD2324TR-ND	2,000	100.00/M	ELJ-FA820JFD
100µH	5%	20	—	0.796	10	10	60	PCD2325CT-ND	.23	10.86	16.37	PCD2325TR-ND	2,000	100.00/M	ELJ-FA101JFD
Fig. 5, 1210 (3225) — Type NA															
0.056µH	20%	10	—	100	600	0.22	420	PCD1116CT-ND	.22	10.21	15.39	PCD1116TR-ND	2,000	94.00/M	ELJ-NA56NMF
0.068µH	20%	10	—	100	540	0.25	400	PCD1117CT-ND	.22	10.21	15.39	PCD1117TR-ND	2,000	94.00/M	ELJ-NA68NMF
0.082µH	20%	10	—	100	500	0.27	380	PCD1118CT-ND	.22	10.21	15.39	PCD1118TR-ND	2,000	94.00/M	ELJ-NA82NMF
0.12µH	20%	10	—	25.2	400	0.67	240	PCD1120CT-ND	.22	10.21	15.39	PCD1120TR-ND	2,000	94.00/M	ELJ-NAR12MF
0.15µH	20%	10	—	25.2	350	0.72	230	PCD1121CT-ND	.22	10.21	15.39	PCD1121TR-ND	2,000	94.00/M	ELJ-NAR15MF
0.27µH	10%	10	—	1.0, 25.2	250	1.0	200	PCD1124CT-ND	.22	10.21	15.39	PCD1124TR-ND	2,000	94.00/M	ELJ-NAR27KF
0.33µH	10%	10	—	1.0, 25.2	220	1.1	190	PCD1125CT-ND	.22	10.21	15.39	PCD1125TR-ND	2,000	94.00/M	ELJ-NAR33KF
0.39µH	10%	10	—	1.0, 25.2	200	1.2	180	PCD1126CT-ND	.22	10.21	15.39	PCD1126TR-ND	2,000	94.00/M	ELJ-NAR39KF
3.9µH	5%	13	—	1.0, 7.96	57	4.4	95	PCD1138CT-ND	.22	10.21	15.39	PCD1138TR-ND	2,000	94.00/M	ELJ-NA3R9JF
Fig. 5, 1210 (3225) — Type NA — RoHS Compliant															
0.047µH	20%	10	—	100	680	0.20	450	PCD1115CT-ND	.22	10.21	15.39	PCD1115TR-ND	2,000	94.00/M	ELJ-NA47NMF
0.10µH	20%	10	—	100	450	0.30	360	PCD1119CT-ND	.22	10.21	15.39	PCD1119TR-ND	2,000	94.00/M	ELJ-NAR10MF
0.18µH	20%	10	—	25.2	320	0.81	220	PCD1122CT-ND	.22	10.21	15.39	PCD1122TR-ND	2,000	94.00/M	ELJ-NAR18MF
0.22µH	10%	10	—	1.0, 25.2	280	0.90	210	PCD1123CT-ND	.22	10.21	15.39	PCD1123TR-ND	2,000	94.00/M	ELJ-NAR22KF
0.47µH	10%	10	—	1.0, 25.2	180	1.4	175	PCD1127CT-ND	.22	10.21	15.39	PCD1127TR-ND	2,000	94.00/M	ELJ-NAR47KF
0.56µH	10%	10	—	1.0, 25.2	160	1.5	170	PCD1128CT-ND	.22	10.21	15.39	PCD1128TR-ND	2,000	94.00/M	ELJ-NAR56KF
0.68µH	10%	10	—	1.0, 25.2	150	1.7	155	PCD1129CT-ND	.22	10.21	15.39	PCD1129TR-ND	2,000	94.00/M	ELJ-NAR68KF
0.82µH	10%	10	—	1.0, 25.2	135	1.9	145	PCD1130CT-ND	.22	10.21	15.39	PCD1130TR-ND	2,000	94.00/M	ELJ-NAR82KF
1.0µH	5%	13	—	1.0, 7.96	120	2.1	125	PCD1131CT-ND	.22	10.21	15.39	PCD1131TR-ND	2,000	94.00/M	ELJ-NA1R0JF
1.2µH	5%	13	—	1.0, 7.96	110	2.3	120	PCD1132CT-ND	.22	10.21	15.39	PCD1132TR-ND	2,000	94.00/M	ELJ-NA1R2JF
1.5µH	5%	13	—	1.0, 7.96	95	2.7	115	PCD1133CT-ND	.22	10.21	15.39	PCD1133TR-ND	2,000	94.00/M	ELJ-NA1R5JF
1.8µH	5%	13	—	1.0, 7.96	85	3.0	110	PCD1134CT-ND	.22	10.21	15.39	PCD1134TR-ND	2,000	94.00/M	ELJ-NA1R8JF
2.2µH	5%	13	—	1.0, 7.96	80	3.2	110	PCD1135CT-ND	.22	10.21	15.39	PCD1135TR-ND	2,000	94.00/M	ELJ-NA2R2JF
2.7µH	5%	13	—	1.0, 7.96	70	3.6	105	PCD1136CT-ND	.22	10.21	15.39	PCD1136TR-ND	2,000	94.00/M	ELJ-NA2R7JF
3.3µH	5%	13	—	1.0, 7.96	62	4.2	100	PCD1137CT-ND	.22	10.21	15.39	PCD1137TR-ND	2,000	94.00/M	ELJ-NA3R3JF
4.7µH	5%	13	—	1.0, 7.96	52	7.7	70	PCD1139CT-ND	.22	10.21	15.39	PCD1139TR-ND	2,000	94.00/M	ELJ-NA4R7JF
5.6µH	5%	13	—	1.0, 7.96	46	8.7	65	PCD1140CT-ND	.22	10.21	15.39	PCD1140TR-ND	2,000	94.00/M	ELJ-NA5R6JF
6.8µH	5%	13	—	1.0, 7.96	42	10.0	60	PCD1141CT-ND	.22	10.21	15.39	PCD1141TR-ND	2,000	94.00/M	ELJ-NA6R8JF
8.2µH	5%	13	—	1.0, 7.96	38	11.0	60	PCD1142CT-ND	.22	10.21	15.39	PCD1142TR-ND	2,000	94.00/M	ELJ-NA8R2JF
Fig. 5, 1210 (3225) — Type SA (10% Tolerance)															
15µH	10%	40	—	1.0, 5.0	25	2.2	15	PCD1099CT-ND	.22	10.42	15.70	PCD1099TR-ND	2,000	96.00/M	ELJ-SA150KF
18µH	10%	40	—	1.0, 5.0	23	2.5	13	PCD1100CT-ND	.22	10.42	15.70	PCD1100TR-ND	2,000	96.00/M	ELJ-SA180KF
33µH	10%	40	—	1.0, 5.0	17	3.5	10	PCD1103CT-ND	.22	10.42	15.70	PCD1103TR-ND	2,000	96.00/M	ELJ-SA330KF
39µH	10%	40	—	1.0, 5.0	15	3.8	9.0	PCD1104CT-ND	.22	10.42	15.70	PCD1104TR-ND	2,000	96.00/M	ELJ-SA390KF

(Continued)

Induc- tance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
47µH	10%	40	—	1.0, 5.0	14	4.0	8.0	PCD1105CT-ND	.22	10.42	15.70	PCD1105TR-ND	2,000	96.00/M	ELJ-SA470KF
56µH	10%	40	—	1.0, 5.0	13	4.5	7.0	PCD1106CT-ND	.22	10.42	15.70	PCD1106TR-ND	2,000	96.00/M	ELJ-SA560KF
82µH	10%	40	—	1.0, 1.5	11	6.0	6.0	PCD1108CT-ND	.22	10.42	15.70	PCD1108TR-ND	2,000	96.00/M	ELJ-SA820KF
120µH	10%	40	—	1.0, 1.5	9.0	8.0	5.0	PCD1110CT-ND	.22	10.42	15.70	PCD1110TR-ND	2,000	96.00/M	ELJ-SA121KF
150µH	10%	40	—	0.1, 1.5	5.0	9.0	5.0	PCD1111CT-ND	.22	10.42	15.70	PCD1111TR-ND	2,000	96.00/M	ELJ-SA151KF
Fig. 5, 1210 (3225) — Type SA (10% Tolerance) — RoHS Compliant															
10µH	10%	40	—	1.0, 5.0	30	1.8	18	PCD1097CT-ND	.22	10.42	15.70	PCD1097TR-ND	2,000	96.00/M	ELJ-SA100KF
12µH	10%	40	—	1.0, 5.0	28	2.0	17	PCD1098CT-ND	.22	10.42	15.70	PCD1098TR-ND	2,000	96.00/M	ELJ-SA120KF
22µH	10%	40	—	1.0, 5.0	20	2.8	12	PCD1101CT-ND	.22	10.42	15.70	PCD1101TR-ND	2,000	96.00/M	ELJ-SA220KF
27µH	10%	40	—	1.0, 5.0	18	3.2	10	PCD1102CT-ND	.22	10.42	15.70	PCD1102TR-ND	2,000	96.00/M	ELJ-SA270KF
68µH	10%	40	—	1.0, 1.5	12	5.0	6.0	PCD1107CT-ND	.22	10.42	15.70	PCD1107TR-ND	2,000	96.00/M	ELJ-SA680KF
100µH	10%	40	—	1.0, 1.5	10	7.0	5.0	PCD1109CT-ND	.22	10.42	15.70	PCD1109TR-ND	2,000	96.00/M	ELJ-SA101KF
180µH	10%	40	—	0.1, 1.5	5.0	11.0	5.0	PCD1112CT-ND	.22	10.42	15.70	PCD1112TR-ND	2,000	96.00/M	ELJ-SA181KF
220µH	10%	40	—	0.1, 1.5	4.0	12.0	5.0	PCD1113CT-ND	.22	10.42	15.70	PCD1113TR-ND	2,000	96.00/M	ELJ-SA221KF
270µH	10%	40	—	0.1, 1.5	4.0	14.0	5.0	PCD1114CT-ND	.22	10.42	15.70	PCD1114TR-ND	2,000	96.00/M	ELJ-SA271KF
Fig. 5, 1210 (3225) — Type EA															
1.5µH	20%	7	—	7.96	80	0.10	390	PCD1418CT-ND	.28	12.85	19.38	PCD1418TR-ND	2,000	119.00/M	ELJ-EA1R5MF
3.3µH	20%	7	—	7.96	50	0.16	270	PCD1420CT-ND	.28	12.85	19.38	PCD1420TR-ND	2,000	119.00/M	ELJ-EA3R3MF
68µH	10%	10	—	2.52	10	1.95	60	PCD1428CT-ND	.28	12.85	19.38	PCD1428TR-ND	2,000	119.00/M	ELJ-EA680KF
150µH	10%	20	—	0.796	7.0	4.03	45	PCD1430CT-ND	.28	12.85	19.38	PCD1430TR-ND	2,000	119.00/M	ELJ-EA151KF
Fig. 5, 1210 (3225) — Type EA — RoHS Compliant															
1.0µH	20%	7	—	7.96	100	0.09	500	PCD1417CT-ND	.28	12.85	19.38	PCD1417TR-ND	2,000	119.00/M	ELJ-EA1R0MF
2.2µH	20%	7	—	7.96	65	0.13	350	PCD1419CT-ND	.28	12.85	19.38	PCD1419TR-ND	2,000	119.00/M	ELJ-EA2R2MF
4.7µH	20%	7	—	7.96	46	0.18	240	PCD1421CT-ND	.28	12.85	19.38	PCD1421TR-ND	2,000	119.00/M	ELJ-EA4R7MF
6.8µH	20%	7	—	7.96	36	0.25	200	PCD1422CT-ND	.28	12.85	19.38	PCD1422TR-ND	2,000	119.00/M	ELJ-EA6R8MF
10µH	10%	10	—	2.52	29	0.34	160	PCD1423CT-ND	.28	12.85	19.38	PCD1423TR-ND	2,000	119.00/M	ELJ-EA100KF
15µH	10%	10	—	2.52	25	0.42	145	PCD1424CT-ND	.28	12.85	19.38	PCD1424TR-ND	2,000	119.00/M	ELJ-EA150KF
22µH	10%	10	—	2.52	18	0.65	115	PCD1425CT-ND	.28	12.85	19.38	PCD1425TR-ND	2,000	119.00/M	ELJ-EA220KF
33µH	10%	10	—	2.52	16	0.91	95	PCD1426CT-ND	.28	12.85	19.38	PCD1426TR-ND	2,000	119.00/M	ELJ-EA330KF
47µH	10%	10	—	2.52	13	1.30	80	PCD1427CT-ND	.28	12.85	19.38	PCD1427TR-ND	2,000	119.00/M	ELJ-EA470KF
100µH	10%	20	—	0.796	8.0	3.12	50	PCD1429CT-ND	.28	12.85	19.38	PCD1429TR-ND	2,000	119.00/M	ELJ-EA101KF
220µH	10%	20	—	0.796	5.0	7.15	35	PCD1431CT-ND	.28	12.85	19.38	PCD1431TR-ND	2,000	119.00/M	ELJ-EA221KF
330µH	10%	20	—	0.796	4.0	9.23	30	PCD1432CT-ND	.28	12.85	19.38	PCD1432TR-ND	2,000	119.00/M	ELJ-EA331KF
Fig. 5, 1210 (3225) — Type PA															
1.5µH	20%	7	—	7.96	110	0.18	550	PCD1479CT-ND	.22	10.21	15.39	PCD1479TR-ND	2,000	94.00/M	ELJ-PA1R5MF
27µH	10%	15	—	2.52	13	1.45	165	PCD1489CT-ND	.22	10.21	15.39	PCD1489TR-ND	2,000	94.00/M	ELJ-PA270KF
56µH	10%	15	—	2.52	8.5	3.30	110	PCD1493CT-ND	.22	10.21	15.39	PCD1493TR-ND	2,000	94.00/M	ELJ-PA560KF
120µH	10%	20	—	0.796	6.0	7.00	75	PCD1497CT-ND	.22	10.21	15.39	PCD1497TR-ND	2,000	94.00/M	ELJ-PA121KF
150µH	10%	20	—	0.796	5.5	8.00	70	PCD1498CT-ND	.22	10.21	15.39	PCD1498TR-ND	2,000	94.00/M	ELJ-PA151KF
270µH	10%	20	—	0.796	3.5	14.5	55	PCD1501CT-ND	.22	10.21	15.39	PCD1501TR-ND	2,000	94.00/M	ELJ-PA271KF
Fig. 5, 1210 (3225) — Type PA — RoHS Compliant															
1.0µH	20%	7	—	7.96	150	0.15	600	PCD1478CT-ND	.22	10.21	15.39	PCD1478TR-ND	2,000	94.00/M	ELJ-PA1R0MF
2.2µH	20%	7	—	7.96	80	0.23	500	PCD1480CT-ND	.22	10.21	15.39	PCD1480TR-ND	2,000	94.00/M	ELJ-PA2R2MF
3.3µH	20%	7	—	7.96	58	0.28	400	PCD1481CT-ND	.22	10.21	15.39	PCD1481TR-ND	2,000	94.00/M	ELJ-PA3R3MF
4.7µH	20%	7	—	7.96	46	0.34	350	PCD1482CT-ND	.22	10.21	15.39	PCD1482TR-ND	2,000	94.00/M	ELJ-PA4R7MF
6.8µH	20%	7	—	7.96	38	0.42	300	PCD1483CT-ND	.22	10.21	15.39	PCD1483TR-ND	2,000	94.00/M	ELJ-PA6R8MF
10µH	10%	15	—	2.52	23	0.50	240	PCD1484CT-ND	.22	10.21	15.39	PCD1484TR-ND	2,000	94.00/M	ELJ-PA100KF
12µH	10%	15	—	2.52	21	0.60	230	PCD1485CT-ND	.22	10.21	15.39	PCD1485TR-ND	2,000	94.00/M	ELJ-PA120KF
15µH	10%	15	—	2.52	18	0.74	220	PCD1486CT-ND	.22	10.21	15.39	PCD1486TR-ND	2,000	94.00/M	ELJ-PA150KF
18µH	10%	15	—	2.52	17	0.90	205	PCD1487CT-ND	.22	10.21	15.39	PCD1487TR-ND	2,000	94.00/M	ELJ-PA180KF
22µH	10%	15	—	2.52	15	1.15	185	PCD1488CT-ND	.22	10.21	15.39	PCD1488TR-ND	2,000	94.00/M	ELJ-PA220KF
33µH	10%	15	—	2.52	12	1.65	155	PCD1490CT-ND	.22	10.21	15.39	PCD1490TR-ND	2,000	94.00/M	ELJ-PA330KF
39µH	10%	15	—	2.52	11	1.90	145	PCD1491CT-ND	.22	10.21	15.39	PCD1491TR-ND	2,000	94.00/M	ELJ-PA390KF
47µH	10%	15	—	2.52	9.5	2.25	135	PCD1492CT-ND	.22	10.21	15.39	PCD1492TR-ND	2,000	94.00/M	ELJ-PA470KF
68µH	10%	15	—	2.52	7.5	3.70	105	PCD1494CT-ND	.22	10.21	15.39	PCD1494TR-ND	2,000	94.00/M	ELJ-PA680KF
82µH	10%	15	—	2.52	7.0	4.20	100	PCD1495CT-ND	.22	10.21	15.39	PCD1495TR-ND	2,000	94.00/M	ELJ-PA820KF
100µH	10%	20	—	0.796	6.5	5.00	90	PCD1496CT-ND	.22	10.21	15.39	PCD1496TR-ND	2,000	94.00/M	ELJ-PA101KF
180µH	10%	20	—	0.796	5.0	9.50	65	PCD1499CT-ND	.22	10.21	15.39	PCD1499TR-ND	2,000	94.00/M	ELJ-PA181KF
220µH	10%	20	—	0.796	4.0	11.0	60	PCD1500CT-ND	.22	10.21	15.39	PCD1500TR-ND	2,000	94.00/M	ELJ-PA221KF
330µH	10%	20	—	0.796	3.0	16.0	50	PCD1502CT-ND	.22	10.21	15.39	PCD1502TR-ND	2,000	94.00/M	ELJ-PA331KF
NEW! Fig. 5, 1210 (3225) — Type PA "Low DC Resistance" — RoHS Compliant NEW!															
2.2µH	20%	—	—	1.0	70	0.17	800	PCD2335CT-ND	.22	10.21	15.39	PCD2335TR-ND	2,000	94.00/M	ELJ-PA2R2MF2
4.7µH	20%	—	—	1.0	35	0.23	700	PCD2336CT-ND	.22	10.21	15.39	PCD2336TR-ND	2,000	94.00/M	ELJ-PA4R7MF2
10µH	10%	—	—	1.0	23	0.35	590	PCD2343CT-ND	.22	10.21	15.39	PCD2343TR-ND	2,000	94.00/M	ELJ-PA100KF2
22µH	10%	—	—	1.0	15	0.66	420	PCD2337CT-ND	.22	10.21	15.39	PCD2337TR-ND	2,000	94.00/M	ELJ-PA220KF2
33µH	10%	—	—	1.0	12	1.05	330	PCD2338CT-ND	.22	10.21	15.39	PCD2338TR-ND	2,000	94.00/M	ELJ-PA330KF2
47µH	10%	—	—	1.0	9.5	1.75	260	PCD2339CT-ND	.22	10.21	15.39	PCD2339TR-ND	2,000	94.00/M	ELJ-PA470KF2
68µH	10%	—	—	1.0	7.5	3.20	190	PCD2340CT-ND	.22	10.21	15.39	PCD2340TR-ND	2,000	94.00/M	ELJ-PA680KF2
100µH	10%	—	—	1.0	6.5	3.90	175	PCD2341CT-ND	.22	10.21	15.39	PCD2341TR-ND	2,000	94.00/M	ELJ-PA101KF2
220µH	10%	—	—	1.0	4.0	8.70	115	PCD2342CT-ND	.22	10.21	15.39	PCD2342TR-ND	2,000	94.00/M	ELJ-PA221KF2
Fig. 6, 1812 (4532) — Type FB															
.27µH	20%	30	—	25.2	200	0.32	650	PCD1434CT-ND	.30	14.04	21.17	PCD1434TR-ND	500	65.00	ELJ-FBR27MF
.39µH	20%	30	—	25.2	155	0.37	620	PCD1436CT-ND	.30	14.04	21.17	PCD1436TR-ND	500	65.00	ELJ-FBR39MF
.47µH	20%	30	—	25.2	135	0.40	580	PCD1437CT-ND	.30	14.04	21.17	PCD1437TR-ND	500	65.00	ELJ-FBR47MF
.56µH	20%	30	—	25.2	120	0.42	560	PCD1438CT-ND	.30	14.04	21.17	PCD1438TR-ND	500	65.00	ELJ-FBR56MF
.68µH	20%	30	—	25.2	105	0.48	530	PCD1439CT-ND	.30	14.04	21.17	PCD1439TR-ND	500	65.00	ELJ-FBR68MF
.82µH	20%	30	—	25.2	90	0.50	500	PCD1440CT-ND	.30	14.04	21.17	PCD1440TR-ND	500	65.00	ELJ-FBR82MF
1.5µH	10%	30	—	25.2	60	0.61	430	PCD1443CT-ND	.30	14.04	21.17	PCD1443TR-ND	500	65.00	ELJ-FB1R5KF
3.3µH	10%	50	—	7.96	39	0.66	380	PCD1447CT-ND	.30	14.04	21.17	PCD1447TR-ND	500	65.00	ELJ-FB3R3KF
5.6µH	10%	50	—	5.0	30	0.88	330	PCD1450CT-ND	.30	14.04	21.17	PCD1450TR-ND	500	65.00	ELJ-FB5R6KF
8.2µH	10%	50	—	5.0	24	1.6	250	PCD1452CT-ND	.30	14.04	21.17	PCD1452TR-ND	500	65.00	ELJ-FB8R2KF
33µH	5%	50	—	2.52	12	3.1	175	PCD1459CT-ND	.30	14.04	21.17	PCD1459TR-ND	500	65.00	ELJ-FB330JF
82µH	5%	40	—	2.52	7.5	5.9	110	PCD1464CT-ND	.30	14.04	21.17	PCD1464TR-ND	500	65.00	ELJ-FB820JF
Fig. 6, 1812 (4532) — Type FB — RoHS Compliant															
.22µH	20%	30	—	25.2	230	0.30	700	PCD1433CT-ND	.30	14.04	21.17	PCD1433TR-ND	500	65.00	ELJ-FBR22MF
.33µH	20%	30	—	25.2	180	0.35	630	PCD1435CT-ND	.30	14.04	21.17	PCD1435TR-ND	500	65.00	ELJ-FBR33MF
1.0µH	10%	30	—	25.2	80	0.52	470	PCD1441CT-ND	.30	14.04	21.17	PCD1441TR-ND	500	65.00	ELJ-FB1R0KF
1.2µH	10%	30	—	25.2	70	0.55	460	PCD1442CT-ND	.30	14.04	21.17	PCD1442TR-ND	500	65.00	ELJ-FB1R2KF
1.8µH	10%	30	—	25.2	50	0.61	410	PCD1444CT-ND	.30	14.04	21.17	PCD1444TR-ND	500	65.00	ELJ-FB1R8KF
2.2µH	10%	30	—	7.96	45	0.61	410	PCD1445CT-ND	.30	14.04	21.17	PCD1445TR-ND	500	65.00	ELJ-FB2R2KF
2.7µH	10%	50	—	7.96	43	0.61	400	PCD1446CT-ND	.30	14.04	21.17	PCD1446TR-ND	500	65.00	ELJ-FB2R7KF
3.9µH	10%	50	—	7.96	36	0.74	360	PCD1448CT-ND	.30	14.04	21.17	PCD1448TR-ND	500	65.00	ELJ-FB3R9KF
4.7µH	10%	50	—	5.0	33	0.81	350	PCD1449CT-ND	.30	14.04	21.17	PCD1449TR-ND	500	65.00	ELJ-FB4R7KF
6.8µH	10%	50	—	5.0	26	1.0	310	PCD1451CT-ND	.30	14.04	21.17	PCD1451TR-ND	500	65.00	ELJ-FB6R8KF
10µH	5%	50	—	5.0	22	1.8	235	PCD1453CT-ND	.30	14.04	21.17	PCD1453TR-ND	500	65.00	ELJ-FB100JF
12µH	5%	50	—	5.0	20	1.9	225	PCD1454CT-ND	.30	14.04	21.17	PCD1454TR-ND	500	65.00	ELJ-FB120JF
15µH	5%	50	—	5.0	18	2.1	215	PCD1455CT-ND	.30	14.04	21.17	PCD1455TR-ND	500	65.00	ELJ-FB150JF
18µH	5%	50	—	5.0	16	2.3	205	PCD1456CT-ND	.30	14.04	21.17	PCD1456TR-ND	500	65.00	ELJ-FB180JF
22µH	5%	50	—	2.52	15	2.6	195	PCD1457CT-ND	.30	14.04	21.17	PCD1457TR-ND	500	65.00	ELJ-FB220JF
27µH	5%	50	—	2.52	13	2.9	185	PCD1458CT-ND	.30	14.04	21.17	PCD1458TR-ND	500	65.00	ELJ-FB270JF
39µH	5%	50	—	2.52	10	3.6	165	PCD1460CT-ND	.30	14.04	21.17	PCD1460TR-ND	500	65.00	ELJ-FB390JF
47µH	5%	50	—	2.52	9.7	4.2	130	PCD1461CT-ND	.30	14.04	21.17	PCD1461TR-ND	500	65.00	ELJ-FB470JF
56µH	5%	40	—	2.52	9.0	4.7	125	PCD1462CT-ND	.30	14.04	21.17	PCD1462TR-ND	500	65.00	ELJ-FB560JF
68µH	5%	40	—	2.52	8.2	5.3	115	PCD1463CT-ND	.30	14.04	21.17	PCD1463TR-ND	500	65.00	ELJ-FB680JF
100µH	5%	40	—	2.52	6.7	8.8	105	PCD1465CT-ND	.30	14.04	21.17	PCD1465TR-ND	500	65.00	ELJ-FB101JF
120µH	5%	40	—	1.5	6.1	10	100	PCD1466CT-ND	.30	14.04	21.17	PCD1466TR-ND	500	65.00	ELJ-FB121JF

(Continued)

Panasonic® Surface Mount Inductors *(Cont.)*

Digi-Reel®

Induc-tance	Tolerance (±)	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	50	100		Qty.	Pricing	
150µH	5%	40	—	1.5	5.5	11	95	PCD1467CT-ND	.30	14.04	21.17	PCD1467TR-ND	500	65.00	ELJ-FB151JF
180µH	5%	40	—	1.5	5.1	13	85	PCD1468CT-ND	.30	14.04	21.17	PCD1468TR-ND	500	65.00	ELJ-FB181JF
220µH	5%	40	—	0.796	4.5	13	85	PCD1469CT-ND	.30	14.04	21.17	PCD1469TR-ND	500	65.00	ELJ-FB221JF
270µH	5%	40	—	0.796	4.1	14	80	PCD1470CT-ND	.30	14.04	21.17	PCD1470TR-ND	500	65.00	ELJ-FB271JF
330µH	5%	40	—	0.796	3.7	16	75	PCD1471CT-ND	.30	14.04	21.17	PCD1471TR-ND	500	65.00	ELJ-FB331JF
390µH	5%	40	—	0.796	3.3	19	70	PCD1472CT-ND	.30	14.04	21.17	PCD1472TR-ND	500	65.00	ELJ-FB391JF
470µH	5%	30	—	0.796	3.3	31	55	PCD1473CT-ND	.30	14.04	21.17	PCD1473TR-ND	500	65.00	ELJ-FB471JF
560µH	5%	30	—	0.796	2.7	35	50	PCD1474CT-ND	.30	14.04	21.17	PCD1474TR-ND	500	65.00	ELJ-FB561JF
680µH	5%	30	—	0.796	2.5	39	50	PCD1475CT-ND	.30	14.04	21.17	PCD1475TR-ND	500	65.00	ELJ-FB681JF
820µH	5%	30	—	0.796	2.4	45	45	PCD1476CT-ND	.30	14.04	21.17	PCD1476TR-ND	500	65.00	ELJ-FB821JF
1000µH	5%	30	—	0.796	2.1	53	40	PCD1477CT-ND	.30	14.04	21.17	PCD1477TR-ND	500	65.00	ELJ-FB102JF
Fig. 6, 1812 (4532) — Type PB (10% Tolerance)															
18µH	10%	10	—	2.52	14	0.90	310	PCD1525CT-ND	.37	17.34	26.14	PCD1525TR-ND	500	80.00	ELJ-PB180KF
27µH	10%	10	—	2.52	11	1.20	270	PCD1527CT-ND	.37	17.34	26.14	PCD1527TR-ND	500	80.00	ELJ-PB270KF
39µH	10%	10	—	2.52	9.5	1.60	230	PCD1529CT-ND	.37	17.34	26.14	PCD1529TR-ND	500	80.00	ELJ-PB390KF
82µH	10%	10	—	2.52	6.5	3.50	160	PCD1533CT-ND	.37	17.34	26.14	PCD1533TR-ND	500	80.00	ELJ-PB820KF
Fig. 6, 1812 (4532) — Type PB (10% Tolerance) — RoHS Compliant															
10µH	10%	10	—	2.52	19	0.65	360	PCD1522CT-ND	.37	17.34	26.14	PCD1522TR-ND	500	80.00	ELJ-PB100KF
12µH	10%	10	—	2.52	17	0.70	340	PCD1523CT-ND	.37	17.34	26.14	PCD1523TR-ND	500	80.00	ELJ-PB120KF
15µH	10%	10	—	2.52	15	0.80	320	PCD1524CT-ND	.37	17.34	26.14	PCD1524TR-ND	500	80.00	ELJ-PB150KF
22µH	10%	10	—	2.52	13	1.00	300	PCD1526CT-ND	.37	17.34	26.14	PCD1526TR-ND	500	80.00	ELJ-PB220KF
33µH	10%	10	—	2.52	10	1.40	250	PCD1528CT-ND	.37	17.34	26.14	PCD1528TR-ND	500	80.00	ELJ-PB330KF
47µH	10%	10	—	2.52	8.5	1.90	210	PCD1530CT-ND	.37	17.34	26.14	PCD1530TR-ND	500	80.00	ELJ-PB470KF
56µH	10%	10	—	2.52	8	2.20	190	PCD1531CT-ND	.37	17.34	26.14	PCD1531TR-ND	500	80.00	ELJ-PB560KF
68µH	10%	10	—	2.52	7	2.60	170	PCD1532CT-ND	.37	17.34	26.14	PCD1532TR-ND	500	80.00	ELJ-PB680KF
100µH	10%	20	—	0.796	6	4.00	150	PCD1534CT-ND	.37	17.34	26.14	PCD1534TR-ND	500	80.00	ELJ-PB101KF
120µH	10%	20	—	0.796	5.5	4.50	130	PCD1535CT-ND	.37	17.34	26.14	PCD1535TR-ND	500	80.00	ELJ-PB121KF
150µH	10%	20	—	0.796	5	6.50	120	PCD1536CT-ND	.37	17.34	26.14	PCD1536TR-ND	500	80.00	ELJ-PB151KF
180µH	10%	20	—	0.796	4.5	7.50	110	PCD1537CT-ND	.37	17.34	26.14	PCD1537TR-ND	500	80.00	ELJ-PB181KF
220µH	10%	20	—	0.796	4	9.00	90	PCD1538CT-ND	.37	17.34	26.14	PCD1538TR-ND	500	80.00	ELJ-PB221KF

SSM THIN FILM TECHNOLOGY SUSUMU Delay Lines

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

Fig. 1

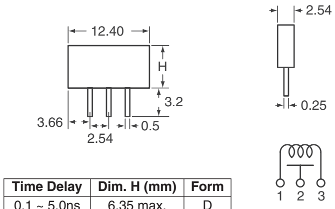

Time Delay	Dim. H (mm)	Form
0.1 ~ 5.0ns	6.35 max.	D
5.5 ~ 10.0ns	9.20 max.	V

Fig. 2

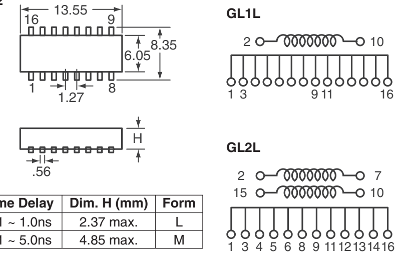

Time Delay	Dim. H (mm)	Form
0.1 ~ 1.0ns	2.37 max.	L
1.1 ~ 5.0ns	4.85 max.	M

Fig. 3

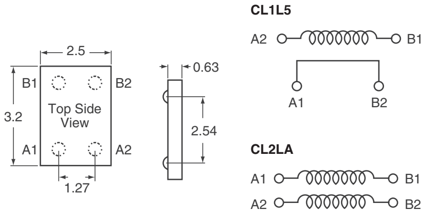

Fig.	Delay (ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss MHz (-3dB)	Return Loss MHz (-15dB)	Digi-Key Part No.	Price Each			Susumu Part No.
							1	10	50	
DS1L Series 3 Pin SIP Delay Lines										
1	0.1	±25	50 ±5	3500	2200	408-1123-ND	12.76	8.68	8.17	DS1L5DJ010K-C
	0.5	±25	50 ±5	2700	2000	408-1124-ND	12.76	8.68	8.17	DS1L5DJ050K-C
	1.0	±50	50 ±5	2100	2000	408-1125-ND	12.76	8.68	8.17	DS1L5DJ100K-C
	1.3	±50	50 ±5	2300	1500	408-1126-ND	12.76	8.68	8.17	DS1L5DJ130K-C
	0.1	±50	50 ±5	2980	2380	408-1108-ND	11.62	7.91	7.44	DS1L5DJ010S-C
	0.5	±50	50 ±5	2580	800	408-1109-ND	11.62	7.91	7.44	DS1L5DJ050S-C
	1.0	±50	50 ±5	1260	185	408-1110-ND	11.62	7.91	7.44	DS1L5DJ100S-C
	2.0	±50	50 ±5	910	118	408-1112-ND	11.62	7.91	7.44	DS1L5DJ200S-C
	3.0	±125	50 ±5	610	322	408-1113-ND	21.55	14.66	13.79	DS1L5DJ300S-C
	3.5	±125	50 ±5	560	415	408-1114-ND	21.55	14.66	13.79	DS1L5DJ350S-C
	4.0	±125	50 ±5	480	436	408-1115-ND	21.55	14.66	13.79	DS1L5DJ400S-C
	4.5	±125	50 ±5	440	388	408-1116-ND	21.55	14.66	13.79	DS1L5DJ450S-C
	5.0	±125	50 ±5	590	341	408-1117-ND	21.55	14.66	13.79	DS1L5DJ500S-C
	6.0	±250	50 ±5	470	294	408-1118-ND	26.22	17.84	16.79	DS1L5VJ600S-C
	7.0	±250	50 ±5	400	200	408-1119-ND	26.22	17.84	16.79	DS1L5VJ700S-C
	8.0	±250	50 ±5	350	209	408-1120-ND	26.22	17.84	16.79	DS1L5VJ800S-C
	9.0	±250	50 ±5	310	181	408-1121-ND	26.22	17.84	16.79	DS1L5VJ900S-C
	10.0	±250	50 ±5	280	166	408-1122-ND	26.22	17.84	16.79	DS1L5VJA00S-C
GL1L Series 16 Pin SOIC Delay Lines										
2	0.1	±50	50 ±5	8.41	3.67	408-1127-ND	24.38	16.58	15.61	GL1L5LS010S-C
	0.5	±50	50 ±5	3.86	1.80	408-1128-ND	24.38	16.58	15.61	GL1L5LS050S-C
	1.0	±50	50 ±5	2.92	1.43	408-1129-ND	24.38	16.58	15.61	GL1L5LS100S-C
	1.5	±50	50 ±5	1.99	1.87	408-1130-ND	24.38	16.58	15.61	GL1L5MS150S-C
	2.0	±50	50 ±5	1.78	1.48	408-1131-ND	24.38	16.58	15.61	GL1L5MS200S-C
	2.5	±50	50 ±5	1.51	1.58	408-1132-ND	24.38	16.58	15.61	GL1L5MS250S-C
	3.0	±50	50 ±5	1.15	1.64	408-1133-ND	24.38	16.58	15.61	GL1L5MS300S-C
	3.5	±50	50 ±5	1.11	1.25	408-1134-ND	24.38	16.58	15.61	GL1L5MS350S-C
	4.0	±50	50 ±5	0.93	1.35	408-1135-ND	24.38	16.58	15.61	GL1L5MS400S-C
	4.5	±50	50 ±5	0.69	1.34	408-1136-ND	24.38	16.58	15.61	GL1L5MS450S-C
	5.0	±50	50 ±5	0.60	1.59	408-1137-ND	24.38	16.58	15.61	GL1L5MS500S-C

Fig.	Delay (ns)	Tolerance (pS)	Individual Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Price Each			Susumu Part No.
						1	10	50	
GL2L Series 16 Pin SOIC Delay Lines									
2	0.1	±50	50 ±5	<144	408-1138-ND	44.51	30.27	28.49	GL2L5LS010D-C
	0.5	±50	50 ±5	<200	408-1139-ND	44.51	30.27	28.49	GL2L5LS050D-C
	1.0	±50	50 ±5	<270	408-1140-ND	44.51	30.27	28.49	GL2L5LS100D-C
	1.5	±50	50 ±5	<340	408-1141-ND	44.51	30.27	28.49	GL2L5MS150D-C
	2.0	±50	50 ±5	<410	408-1142-ND	44.51	30.27	28.49	GL2L5MS200D-C
	2.5	±50	50 ±5	<480	408-1143-ND	44.51	30.27	28.49	GL2L5MS250D-C
	3.0	-500/+100	50 ±5	<550	408-1144-ND	44.51	30.27	28.49	GL2L5MS300D-C
	3.5	±100	50 ±5	<620	408-1145-ND	44.51	30.27	28.49	GL2L5MS350D-C
	4.0	±100	50 ±5	<690	408-1146-ND	44.51	30.27	28.49	GL2L5MS400D-C
	4.5	±100	50 ±5	<760	408-1147-ND	44.51	30.27	28.49	GL2L5MS450D-C

(Continued)

Delay Lines *(Cont.)*

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 100	Susumu Part No.
						CL1L Series 1210 Chip Delay Lines						
3	0.06	±10	50 ±5	12.4	4.3	408-1149-1-ND	10.35	7.04	6.63	408-1149-2-ND	620.87	CL1L5AT006L-T1
	0.08	±10	50 ±5	11	7.4	408-1150-1-ND	10.35	7.04	6.63	408-1150-2-ND	620.87	CL1L5AT008L-T1
	0.1	±10	50 ±5	9.4	4.3	408-1151-1-ND	10.35	7.04	6.63	408-1151-2-ND	620.87	CL1L5AT010L-T1
	0.12	±10	50 ±5	8.4	6.3	408-1152-1-ND	10.35	7.04	6.63	408-1152-2-ND	620.87	CL1L5AT012L-T1
	0.14	±10	50 ±5	7.4	6.1	408-1153-1-ND	10.35	7.04	6.63	408-1153-2-ND	620.87	CL1L5AT014L-T1
	0.16	±10	50 ±5	6.6	5.9	408-1154-1-ND	10.35	7.04	6.63	408-1154-2-ND	620.87	CL1L5AT016L-T1
	0.18	±10	50 ±5	5.9	4.5	408-1155-1-ND	10.35	7.04	6.63	408-1155-2-ND	620.87	CL1L5AT018L-T1
	0.2	±10	50 ±5	5.5	5.4	408-1156-1-ND	10.35	7.04	6.63	408-1156-2-ND	620.87	CL1L5AT020L-T1
	0.22	±10	50 ±5	4.9	4.9	408-1157-1-ND	10.35	7.04	6.63	408-1157-2-ND	620.87	CL1L5AT022L-T1

Fig.	Delay (Ns)	Tolerance (pS)	Differential Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 100	Susumu Part No.
					CL2L Series 1210 Chip Delay Lines						
3	0.04	±10	100 ±10	<20	408-1158-1-ND	18.43	12.54	11.80	408-1158-2-ND	1105.65	CL2LAAT004D-C-T1
	0.06	±10	100 ±10	<24	408-1159-1-ND	18.43	12.54	11.80	408-1159-2-ND	1105.65	CL2LAAT006D-C-T1
	0.08	±10	100 ±10	<24	408-1160-1-ND	18.43	12.54	11.80	408-1160-2-ND	1105.65	CL2LAAT008D-C-T1
	0.1	±10	100 ±10	<27	408-1161-1-ND	18.43	12.54	11.80	408-1161-2-ND	1105.65	CL2LAAT010D-C-T1
	0.12	±10	100 ±10	<31	408-1162-1-ND	18.43	12.54	11.80	408-1162-2-ND	1105.65	CL2LAAT012D-C-T1
	0.14	±10	100 ±10	<37	408-1163-1-ND	18.43	12.54	11.80	408-1163-2-ND	1105.65	CL2LAAT014D-C-T1
	0.16	±10	100 ±10	<37	408-1164-1-ND	18.43	12.54	11.80	408-1164-2-ND	1105.65	CL2LAAT016D-C-T1
	0.18	±10	100 ±10	<39	408-1165-1-ND	18.43	12.54	11.80	408-1165-2-ND	1105.65	CL2LAAT018D-C-T1
	0.2	±10	100 ±10	<45	408-1166-1-ND	18.43	12.54	11.80	—	—	CL2LAAT020D-C-T1

Power Choke Coils

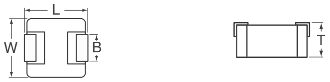

Specifications: • Operating Temperature: -55°C ~ 125°C

Features: • High Power • High Saturation Current • Inductance Tolerance: 20%

Applications: • DC/DC Converter for CPUs • Thin-type on-board Power Supply Module for the Exchanger

L0 Inductance (µH)	Rdc (mΩ) Typ.	Rdc (mΩ) Max.	Rated Current (A)	Saturation Current (A)	Dimensions (mm) L	W	T	B	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
								NEW! Small 042 and 053 Types — PCMB and PCMC Series NEW!								
0.10	3.5	4.0	12.0	22.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1362-1-ND	1.33	1.10	.86	408-1362-2-ND	1,000	400.79	PCMB042T-R10MS
0.22	6.0	6.6	9.0	13.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1363-1-ND	1.33	1.10	.86	408-1363-2-ND	1,000	400.79	PCMB042T-R22MS
0.47	12.5	12.0	7.0	9.5	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1364-1-ND	1.33	1.10	.86	408-1364-2-ND	1,000	400.79	PCMB042T-R47MS
1.0	24.0	27.0	4.5	7.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1365-1-ND	1.33	1.10	.86	408-1365-2-ND	1,000	400.79	PCMB042T-1R0MS
1.5	38.0	46.0	4.0	6.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1366-1-ND	1.33	1.10	.86	408-1366-2-ND	1,000	400.79	PCMB042T-1R5MS
2.2	52.0	58.0	3.0	5.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1367-1-ND	1.33	1.10	.86	408-1367-2-ND	1,000	400.79	PCMB042T-2R2MS
0.10	4.5	5.0	11.0	30.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1358-1-ND	1.33	1.10	.86	408-1358-2-ND	1,000	400.79	PCMC042T-R10MN
0.22	7.3	8.0	9.0	17.0	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1359-1-ND	1.33	1.10	.86	408-1359-2-ND	1,000	400.79	PCMC042T-R22MN
0.47	14.0	15.5	6.0	11.5	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1360-1-ND	1.33	1.10	.86	408-1360-2-ND	1,000	400.79	PCMC042T-R47MN
1.0	32.0	36.0	3.8	8.5	4.5 Max.	4.0 ±0.3	2.0 Max.	1.5 ±0.3	408-1361-1-ND	1.33	1.10	.86	408-1361-2-ND	1,000	400.79	PCMC042T-1R0MN
0.68	11.0	12.0	8.5	14.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1368-1-ND	1.45	1.20	.94	408-1368-2-ND	1,000	437.16	PCMC053T-R68MN
1.0	13.0	14.0	7.0	11.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1369-1-ND	1.45	1.20	.94	408-1369-2-ND	1,000	437.16	PCMC053T-1R0MN
1.2	15.0	16.0	6.5	11.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1370-1-ND	1.45	1.20	.94	408-1370-2-ND	1,000	437.16	PCMC053T-1R2MN
1.5	18.0	20.0	6.0	10.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1371-1-ND	1.45	1.20	.94	408-1371-2-ND	1,000	437.16	PCMC053T-1R5MN
2.2	29.0	35.0	5.5	9.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1372-1-ND	1.45	1.20	.94	408-1372-2-ND	1,000	437.16	PCMC053T-2R2MN
3.3	32.0	38.0	5.0	7.0	5.2 Max.	4.7 ±0.2	3.0 Max.	1.5 ±0.3	408-1373-1-ND	1.45	1.20	.94	408-1373-2-ND	1,000	437.16	PCMC053T-3R3MN
								063 Type — PCMC Series								
0.10	1.5	1.7	32.5	60.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1096-1-ND	1.93	1.59	1.25	408-1096-2-ND	1,000	582.88	PCMC063T-R10MN
0.22	2.5	2.8	23.0	40.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1097-1-ND	1.93	1.59	1.25	408-1097-2-ND	1,000	582.88	PCMC063T-R22MN
0.33	3.5	3.9	20.0	30.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1098-1-ND	1.93	1.59	1.25	408-1098-2-ND	1,000	582.88	PCMC063T-R33MN
0.47	4.0	4.2	17.5	26.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1099-1-ND	1.93	1.59	1.25	408-1099-2-ND	1,000	582.88	PCMC063T-R47MN
0.68	5.0	5.5	15.5	25.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1100-1-ND	1.93	1.59	1.25	408-1100-2-ND	1,000	582.88	PCMC063T-R68MN
1.0	9.0	10.0	11.0	22.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1102-1-ND	1.93	1.59	1.25	408-1102-2-ND	1,000	582.88	PCMC063T-1R0MN
1.2	10.0	12.0	10.0	20.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1103-1-ND	1.93	1.59	1.25	408-1103-2-ND	1,000	582.88	PCMC063T-1R2MN
1.5	14.0	15.0	9.0	18.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1104-1-ND	1.93	1.59	1.25	408-1104-2-ND	1,000	582.88	PCMC063T-1R5MN
2.2	18.0	20.0	8.0	14.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1105-1-ND	2.41	1.99	1.56	408-1105-2-ND	1,000	728.60	PCMC063T-2R2MN
3.3	28.0	30.0	6.0	13.5	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1106-1-ND	2.41	1.99	1.56	408-1106-2-ND	1,000	728.60	PCMC063T-3R3MN
4.7	37.0	40.0	5.5	10.0	7.3 Max.	6.6 ±0.2	3.0 Max.	3.0 ±0.3	408-1107-1-ND	2.41	1.99	1.56	408-1107-2-ND	1,000	728.60	PCMC063T-4R7MN
								NEW! 103, 104 and 105 Types — PCMB and PCMC Series NEW!								
0.36	1.3	1.6	23.0	28.0	11.5 ±0.35	10 ±0.3	2.8 ±0.2	3.0 ±0.2	408-1327-1-ND	2.18	1.80	—	408-1327-2-ND	500	346.28	PCMB103T-R36MS
0.47	2.1	2.5	20.0	26.0	11.5 ±0.35	10 ±0.3	2.8 ±0.2	3.0 ±0.2	408-1328-1-ND	2.18	1.80	—	408-1328-2-ND	500	346.28	PCMB103T-R47MS
8.2	35.0	45.0	5.0	8.5	11.5 ±0.35	10 ±0.3	2.8 ±0.2	3.0 ±0.2	408-1329-1-ND	2.18	1.80	—	408-1329-2-ND	500	346.28	PCMB103T-8R2MS
1.0	2.7	3.0	20.0	27.0	11.5 ±0.35	10 ±0.3	3.3 ±0.2	3.0 ±0.2	408-1330-1-ND	2.18	1.80	—	408-1330-2-ND	500	346.28	PCMB103E-1R0MS
0.36	1.05	1.2	30.0	50.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1331-1-ND	2.18	1.80	—	408-1331-2-ND	500	346.28	PCMB104T-R36MT
0.56	1.6	1.8	25.0	33.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1332-1-ND	2.18	1.80	—	408-1332-2-ND	500	346.28	PCMB104T-R56MT
1.0	3.0	3.3	18.0	28.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1333-1-ND	2.18	1.80	—	408-1333-2-ND	500	346.28	PCMB104T-1R0MT
1.8	4.5	5.0	15.0	15.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1334-1-ND	2.18	1.80	—	408-1334-2-ND	500	346.28	PCMB104T-1R8MS
2.0	5.2	5.8	14.0	14.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1335-1-ND	2.18	1.80	—	408-1335-2-ND	500	346.28	PCMB104T-2R0MS
2.2	6.0	7.0	12.0	18.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1336-1-ND	2.18	1.80	—	408-1336-2-ND	500	346.28	PCMB104T-2R2MS
2.2	5.8	7.0	14.0	16.0	11.5 Max.	10 ±0.2	4.5 Max.	3.0 ±0.2	408-1337-1-ND	2.18	1.80	—	408-1337-2-ND	500	346.28	PCMB104E-2R2MS
3.3	10.8	11.8	10.0	16.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1338-1-ND	2.18	1.80	—	408-1338-2-ND	500	346.28	PCMB104T-3R3MS
3.3	11.0	13.2	11.0	14.5	11.5 Max.	10 ±0.2	4.5 Max.	3.0 ±0.2	408-1339-1-ND	2.18	1.80	—	408-1339-2-ND	500	346.28	PCMB104E-3R3MS
4.7	13.2	15.0	10.0	13.0	11.5 Max.	10 ±0.2	4.5 Max.	3.0 ±0.2	408-1340-1-ND	2.18	1.80	—	408-1340-2-ND	500	346.28	PCMB104E-4R7MS
6.8	21.5	24.0	7.5	9.5	11.5 Max.	10 ±0.2	4.5 Max.	3.0 ±0.2	408-1341-1-ND	2.18	1.80	—	408-1341-2-ND	500	346.28	PCMB104E-6R8MS
10.0	27.5	30.0	6.0	6.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1342-1-ND	2.18	1.80	—	408-1342-2-ND	500	346.28	PCMB104T-100MS
0.47	0.95	1.1	36.0	50.0	11.15 ±0.35	10 ±0.3	4.8 ±0.2	3.0 ±0.2	408-1343-1-ND	2.18	1.80	—	408-1343-2-ND	500	346.28	PCMB105T-R47MS
0.22	0.9	1.0	35.0	60.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1322-1-ND	2.18	1.80	—	408-1322-2-ND	500	346.28	PCMC104T-R22MN
0.68	2.4	2.7	22.0	39.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1323-1-ND	2.18	1.80	—	408-1323-2-ND	500	346.28	PCMC104T-R68MN
0.88	2.7	3.0	20.0	38.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1324-1-ND	2.18	1.80	—	408-1324-2-ND	500	346.28	PCMC104T-R88MN
1.5	3.8	4.2	16.0	33.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1325-1-ND	2.18	1.80	—	408-1325-2-ND	500	346.28	PCMC104T-1R5MN
2.2	6.7	7.0	12.0	27.0	11.5 Max.	10 ±0.2	4.0 Max.	3.0 ±0.2	408-1326-1-ND	2.18	1.80	—	408-1326-2-ND	500	346.28	PCMC104T-2R2MN
								NEW! 133 Type — PCMC Series NEW!								
0.56	1.8	2.2	29.0	51.0	13.8 Max.	12.6 ±0.2	3.5 Max.	4.0 ±0.3	408-1344-1-ND	2.64	2.18	—	408-1344-2-ND	500	419.18	PCMC133E-R56MF
0.68	2.3	2.5	28.0	49.0	13.8 Max.	12.6 ±0.2	3.5 Max.	4.0 ±0.3	408-1345-1-ND	2.64	2.18	—	408-1345-2-ND	500	419.18	PCMC133E-R68MF
1.0	3.3	3.5	24.0	40.0	13.8 Max.	12.6 ±0.2	3.5 Max.	4.0 ±0.3	408-1346-1-ND	2.64	2.18	—	408-1346-2-ND	500	419.18	PCMC133E-1R0MF
2.2	7.2	8.0	16.0	29.0	13.8 Max.	12.6 ±0.2	3.5 Max.	4.0 ±0.3	408-1347-1-ND	2.64	2.18	—	408-1347-2-ND	500	419.18	PCMC133E-2R2MF
								NEW! 135 Type — PCMC Series NEW!								
0.36	0.77	1.1	41.0	75.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1348-1-ND	2.64	2.18	—	408-1348-2-ND	500	419.18	PCMC135T-R36MF
0.47	1.1	1.3	38.0	65.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1349-1-ND	2.64	2.18	—	408-1349-2-ND	500	419.18	PCMC135T-R47MF
0.50	1.2	1.5	36.0	55.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1350-1-ND	2.64	2.18	—	408-1350-2-ND	500	419.18	PCMC135T-R50MF
0.56	1.2	1.5	36.0	55.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1351-1-ND	2.64	2.18	—	408-1351-2-ND	500	419.18	PCMC135T-R56MF
0.68	1.5	1.7	34.0	54.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1353-1-ND	2.64	2.18	—	408-1353-2-ND	500	419.18	PCMC135T-R68MF
1.0	2.1	2.5	29.0	50.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1354-1-ND	2.64	2.18	—	408-1354-2-ND	500	419.18	PCMC135T-1R0MF
1.5	3.4	4.1	23.0	48.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1355-1-ND	2.64	2.18	—	408-1355-2-ND	500	419.18	PCMC135T-1R5MF
2.2	4.6	5.5	20.0	32.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1356-1-ND	2.64	2.18	—	408-1356-2-ND	500	419.18	PCMC135T-2R2MF
3.3	7.7	9.2	15.0	32.0	13.8 Max.	12.6 ±0.2	5.0 Max.	4.0 ±0.3	408-1357-1-ND	2.64	2.18	—	408-1357-2-ND	500	419.18	PCMC135T-3R3MF

SUSUMU Thin Film Chip LC Filter

Dimensions in mm

Electrical Specifications:

TBF-1608-245-R1N: • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Insertion Loss:** 1.7dB @25°C, 1.9dB @ -40°C ~ 85°C • **Attenuation:** 20.0dB @1710 ~ 1910MHz, 30.0dB @4800 ~ 5000MHz, 30.0dB @ 7200 ~ 7500MHz • **VSWR in BW:** 2.0 max. • **Impedance:** 50Ω • **Power:** 500mW Max.

TBF-2012-245-R1: • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Insertion Loss:** 1.5dB @25°C; 1.6dB @ -40°C ~ 85°C • **Attenuation:** 30.0dB @880 ~ 960MHz, 25.0dB @1710 ~ 1910MHz, 30.0dB @ 4800 ~ 5000MHz, 30.0dB @ 7200 ~ 7500MHz • **VSWR in BW:** 2.0 max. • **Impedance:** 50Ω • **Power:** 500mW Max.

TBL-1608-245-M2: • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Unbalance Port Impedance:** 50Ω • **Balance Port Impedance:** 100Ω • **Phase:** 180 ±10° • **Insertion Loss:** 1.0dB max. @25°C • **VSWR in BW:** 2.0 max. • **Power:** 500mW max.

Fig.	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 4,000	Susumu Part No.
1	408-1300-1-ND	1.06	.88	.69	408-1300-2-ND	374.22/M	TBF-1608-245-R1N
	408-1301-1-ND	1.16	.96	.75	408-1301-2-ND	408.24/M	TBF-2012-245-R1
2	408-1302-1-ND	.66	.54	.43	408-1302-2-ND	229.64/M	TBL-1608-245-M2

Fig. 1 — TBF Series

	TBF1608	TBF2012
1	Input	Output
2	Output	Input
3	GND	GND
4	GND	GND

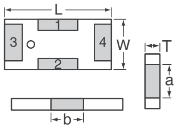

	TBF1608	TBF2012
L	1.6 ±0.1	2.0 ±0.1
W	0.8 ±0.1	1.25 ±0.1
T	0.4 max.	0.4 max.
a	0.6 ±0.1	0.75 ±0.1
b	0.4 ±0.1	0.4 ±0.1

Fig. 2 — TBL Series

1	GND or DC feed
2	NC
3	Unbalance Port
4	Balance Port
5	NC
6	Balance Port

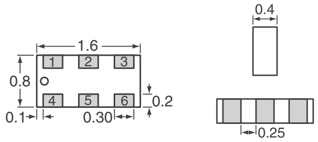

Thin Film Inductors

Features:
- Excellent inductance tolerances
- Thin package profiles
- Self resonant frequencies of more than 1GHz
- High Q values
- High rated currents

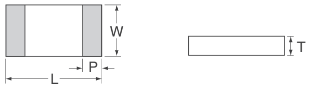

Series	Dimension - mm L	W	P	T
HPL1005	1.00 ±0.10	0.50 ±0.10	0.15 ±0.10	0.40 ±0.10
TFL0816	1.60 ±0.10	0.80 ±0.10	0.30 ±0.20	0.45 ±0.10

Inductance (nH)	Tolerance	Q Min.	Test Frequency (MHz)	S.R.F. Min. (GHz)	DCR Max. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
HPL1005 Series 0402 Package														
1.0	±0.2nH	15	300	7.0	0.03	1800	408-1000-1-ND	1.01	8.33	32.74	408-1000-2-ND	10,000	35.72/M	HPL1005-1N0
1.2	±0.2nH	15	300	7.0	0.08	1400	408-1001-1-ND	1.01	8.33	32.74	408-1001-2-ND	10,000	35.72/M	HPL1005-1N2
1.5	±0.2nH	15	300	7.0	0.10	1200	408-1002-1-ND	1.01	8.33	32.74	408-1002-2-ND	10,000	35.72/M	HPL1005-1N5
1.6	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1312-1-ND	1.01	8.33	32.74	—	—	—	HPL1005-1N6
1.8	±0.2nH	15	300	7.0	0.14	1000	408-1003-1-ND	1.01	8.33	32.74	408-1003-2-ND	10,000	35.72/M	HPL1005-1N8
2.0	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1313-1-ND	1.01	8.33	32.74	408-1313-2-ND	10,000	35.72/M	HPL1005-2N0
2.2	±0.2nH	15	300	7.0	0.15	900	408-1004-1-ND	1.01	8.33	32.74	408-1004-2-ND	10,000	35.72/M	HPL1005-2N2
2.4	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1314-1-ND	1.01	8.33	32.74	408-1314-2-ND	10,000	35.72/M	HPL1005-2N4
2.7	±0.2nH	13	300	7.0	0.23	750	408-1005-1-ND	1.01	8.33	32.74	408-1005-2-ND	10,000	35.72/M	HPL1005-2N7
3.3	±0.2nH	13	300	7.0	0.25	700	408-1006-1-ND	1.01	8.33	32.74	408-1006-2-ND	10,000	35.72/M	HPL1005-3N3
3.6	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1316-1-ND	1.01	8.33	32.74	408-1316-2-ND	10,000	35.72/M	HPL1005-3N6
3.9	±0.2nH	13	300	7.0	0.30	620	408-1007-1-ND	1.01	8.33	32.74	408-1007-2-ND	10,000	35.72/M	HPL1005-3N9
4.3	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1317-1-ND	1.01	8.33	32.74	408-1317-2-ND	10,000	35.72/M	HPL1005-4N3
4.7	±0.2nH	13	300	6.0	0.50	500	408-1008-1-ND	1.01	8.33	32.74	408-1008-2-ND	10,000	35.72/M	HPL1005-4N7
5.1	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1318-1-ND	1.01	8.33	32.74	408-1318-2-ND	10,000	35.72/M	HPL1005-5N1
5.6	±0.2nH	10	300	5.5	0.70	450	408-1009-1-ND	1.01	8.33	32.74	408-1009-2-ND	10,000	35.72/M	HPL1005-5N6
6.8	±0.2nH	10	300	4.5	0.80	430	408-1010-1-ND	1.01	8.33	32.74	408-1010-2-ND	10,000	35.72/M	HPL1005-6N8
8.2	±0.2nH	10	300	4.0	1.10	340	408-1011-1-ND	1.01	8.33	32.74	408-1011-2-ND	10,000	35.72/M	HPL1005-8N2
10	±2%	10	300	3.5	1.40	300	408-1012-1-ND	1.01	8.33	32.74	408-1012-2-ND	10,000	35.72/M	HPL1005-10N
11	±2%	13 ~ 15	300	3.5	0.5 ~ 0.8	240 ~ 300	408-1308-1-ND	1.01	8.33	32.74	408-1308-2-ND	10,000	35.72/M	HPL1005-11N
12	±2%	10	300	3.5	1.65	270	408-1013-1-ND	1.01	8.33	32.74	408-1013-2-ND	10,000	35.72/M	HPL1005-12N
13	±2%	13 ~ 15	300	3.5	0.5 ~ 0.8	240 ~ 300	408-1309-1-ND	1.01	8.33	32.74	408-1309-2-ND	10,000	35.72/M	HPL1005-13N
15	±2%	10	300	3.5	2.25	240	408-1014-1-ND	1.01	8.33	32.74	408-1014-2-ND	10,000	35.72/M	HPL1005-15N
TFL0816 Series 0603 Package														
1.0	±0.2nH	20	300	6.0	0.10	1000	408-1025-1-ND	1.93	15.88	62.37	408-1025-2-ND	5,000	68.04/M	TFL0816-1N0
1.2	±0.2nH	20	300	6.0	0.10	1000	408-1026-1-ND	1.93	15.88	62.37	408-1026-2-ND	5,000	68.04/M	TFL0816-1N2
1.5	±0.2nH	20	300	6.0	0.10	1000	408-1027-1-ND	1.93	15.88	62.37	—	—	—	TFL0816-1N5
1.8	±0.2nH	20	300	6.0	0.15	800	408-1028-1-ND	1.93	15.88	62.37	408-1028-2-ND	5,000	68.04/M	TFL0816-1N8
2.2	±0.2nH	20	300	6.0	0.15	800	408-1029-1-ND	1.93	15.88	62.37	408-1029-2-ND	5,000	68.04/M	TFL0816-2N2
2.7	±0.2nH	20	300	6.0	0.15	800	408-1030-1-ND	1.93	15.88	62.37	408-1030-2-ND	5,000	68.04/M	TFL0816-2N7
3.3	±0.2nH	20	300	6.0	0.20	700	408-1031-1-ND	1.93	15.88	62.37	408-1031-2-ND	5,000	68.04/M	TFL0816-3N3
3.9	±0.2nH	20	300	6.0	0.20	700	408-1032-1-ND	1.93	15.88	62.37	408-1032-2-ND	5,000	68.04/M	TFL0816-3N9
4.7	±0.2nH	20	300	5.0	0.25	600	408-1033-1-ND	1.93	15.88	62.37	408-1033-2-ND	5,000	68.04/M	TFL0816-4N7
5.6	±0.2nH	15	300	5.0	0.50	400	408-1034-1-ND	1.93	15.88	62.37	408-1034-2-ND	5,000	68.04/M	TFL0816-5N6
6.8	±0.2nH	15	300	5.0	0.50	400	408-1035-1-ND	1.93	15.88	62.37	408-1035-2-ND	5,000	68.04/M	TFL0816-6N8
8.2	±0.2nH	15	300	4.0	0.50	400	408-1036-1-ND	1.93	15.88	62.37	408-1036-2-ND	5,000	68.04/M	TFL0816-8N2
10	±2%	15	300	4.0	1.00	300	408-1037-1-ND	1.93	15.88	62.37	408-1037-2-ND	5,000	68.04/M	TFL0816-10N
12	±2%	15	300	3.0	1.00	300	408-1038-1-ND	1.93	15.88	62.37	408-1038-2-ND	5,000	68.04/M	TFL0816-12N
15	±2%	15	300	3.0	1.00	300	408-1039-1-ND	1.93	15.88	62.37	408-1039-2-ND	5,000	68.04/M	TFL0816-15N
18	±2%	15	300	2.0	1.50	250	408-1040-1-ND	1.93	15.88	62.37	408-1040-2-ND	5,000	68.04/M	TFL0816-18N
22	±2%	15	300	2.0	1.50	250	408-1041-1-ND	1.93	15.88	62.37	408-1041-2-ND	5,000	68.04/M	TFL0816-22N
27	±2%	15	300	2.0	2.00	200	408-1042-1-ND	1.93	15.88	62.37	408-1042-2-ND	5,000	68.04/M	TFL0816-27N
33	±2%	15	200	1.5	2.00	200	408-1043-1-ND	1.93	15.88	62.37	408-1043-2-ND	5,000	68.04/M	TFL0816-33N
39	±2%	15	200	1.5	3.00	180	408-1044-1-ND	1.93	15.88	62.37	408-1044-2-ND	5,000	68.04/M	TFL0816-39N
47	±2%	15	200	1.5	3.00	180	408-1045-1-ND	1.93	15.88	62.37	408-1045-2-ND	5,000	68.04/M	TFL0816-47N
56	±2%	15	200	1.0	4.00	150	408-1046-1-ND	1.93	15.88	62.37	408-1046-2-ND	5,000	68.04/M	TFL0816-56N
68	±2%	15	200	1.0	4.50	140	408-1047-1-ND	1.93	15.88	62.37	408-1047-2-ND	5,000	68.04/M	TFL0816-68N
82	±2%	10	200	1.0	6.00	120	408-1048-1-ND	1.93	15.88	62.37	408-1048-2-ND	5,000	68.04/M	TFL0816-82N
100	±2%	10	200	1.0	8.50	100	408-1049-1-ND	1.93	15.88	62.37	408-1049-2-ND	5,000	68.04/M	TFL0816-R10

SSMH1005-KIT-ND HPL1005 Series 0402 SMD Thin Film Inductor Kit, 40 each of 28 values (1.0nH ~ 15nH)........ **$81.82**

Panasonic® Voltage Step-Up Coil

ELT-3KN, ELT-5KN and ELT-5KT Types

High inductance Voltage Step-up coil chip series for piezo-electric buzzer and DC-DC circuit of EL

Features: • Small and thin • High inductance

Recommended Applications: • Watches, Toys, Camera, Electronic thermometers, Pagers, PHS, Portable telephones

Operating Temperature: -20°C ~ 85°C (-20°C ~ 105°C for the 5KT Type).

Dimensions in mm

Fig. 1

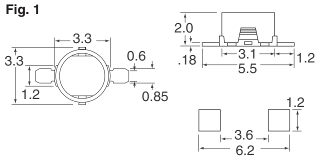

Fig. 2

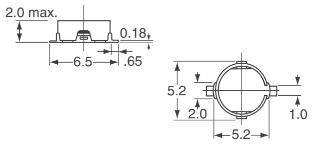

Fig. 3

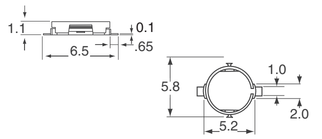

Fig.	Inductance @ 100kHz (µH)	Tolerance (%)	Rated Current (mA)	RDC (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
3KN Type												
1	1.0	—	30	35	PCD1398CT-ND	1.32	1.23	.93	PCD1398TR-ND	1,000	567.00	ELT-3KN104B
	1.0	—	40	23	PCD1399CT-ND	1.32	1.23	.93	PCD1399TR-ND	1,000	567.00	ELT-3KN121B
	1.0	—	30	25	PCD1400CT-ND	1.32	1.23	.93	PCD1400TR-ND	1,000	567.00	ELT-3KN123B
	2.0	—	20	44	PCD1401CT-ND	1.32	1.23	.93	PCD1401TR-ND	1,000	567.00	ELT-3KN131B
	2.5	—	20	64	PCD1402CT-ND	1.32	1.23	.93	PCD1402TR-ND	1,000	567.00	ELT-3KN118B
	4.0	—	15	85	PCD1403CT-ND	1.32	1.23	.93	PCD1403TR-ND	1,000	567.00	ELT-3KN124B
	560	—	45	15	PCD1397CT-ND	1.32	1.23	.93	PCD1397TR-ND	1,000	567.00	ELT-3KN128B
	1.1mH	±10	30	32	PCD2326CT-ND◆ ✔	1.71	1.59	1.20	PCD2326TR-ND◆ ✔	1,000	734.00	ELT-3KN163B
	2mH	±10	20	55	PCD2327CT-ND◆ ✔	1.71	1.59	1.20	PCD2327TR-ND◆ ✔	1,000	734.00	ELT-3KN136B
	4mH	±10	15	117	PCD2328CT-ND◆ ✔	1.71	1.59	1.20	PCD2328TR-ND◆ ✔	1,000	734.00	ELT-3KN162B
5KN Type												
2	220.0	±10	100	2.4	PCD1550CT-ND	1.41	1.31	.99	PCD1550TR-ND	4,000	605.00/M	ELT-5KN127C
	560.0	±10	60	6.0	PCD1551CT-ND	1.41	1.31	.99	PCD1551TR-ND	4,000	605.00/M	ELT-5KN118C
	390.0	±10	120	2.8	PCD1552CT-ND	1.41	1.31	.99	PCD1552TR-ND	4,000	605.00/M	ELT-5KN131C
	1000.0	±10	55	11.5	PCD1553CT-ND	1.41	1.31	.99	PCD1553TR-ND	4,000	605.00/M	ELT-5KN134C
	1500.0	±10	40	20.0	PCD1554CT-ND	1.41	1.31	.99	PCD1554TR-ND	4,000	605.00/M	ELT-5KN135C
	2700.0	±10	35	33.0	PCD1555CT-ND	1.41	1.31	.99	PCD1555TR-ND	4,000	605.00/M	ELT-5KN120C
5KT Type												
3	4.7	±20	950	0.20	PCD1557CT-ND	2.01	1.87	1.41	PCD1557TR-ND	5,000	662.00/M	ELT-5KT4R7MA
	6.8	±20	760	0.30	PCD1558CT-ND	2.01	1.87	1.41	PCD1558TR-ND	5,000	662.00/M	ELT-5KT6R8MA
	10.0	±20	680	0.36	PCD1559CT-ND	2.01	1.87	1.41	—	—	—	ELT-5KT100MA
	15.0	±15	510	0.58	PCD1560CT-ND	2.01	1.87	1.41	PCD1560TR-ND	5,000	662.00/M	ELT-5KT150LA
	22.0	±15	420	0.90	PCD1561CT-ND	2.01	1.87	1.41	PCD1561TR-ND	5,000	662.00/M	ELT-5KT220LA
	33.0	±15	360	1.20	PCD1562CT-ND	2.01	1.87	1.41	PCD1562TR-ND	5,000	662.00/M	ELT-5KT330LA
	47.0	±15	300	1.70	PCD1563CT-ND	2.01	1.87	1.41	PCD1563TR-ND	5,000	662.00/M	ELT-5KT470LA
	68.0	±15	260	2.60	PCD1564CT-ND	2.01	1.87	1.41	PCD1564TR-ND	5,000	662.00/M	ELT-5KT680LA
	100.0	±15	190	4.30	PCD1565CT-ND	2.01	1.87	1.41	PCD1565TR-ND	5,000	662.00/M	ELT-5KT101LA
5KT Type - RoHS Compliant												
3	3.3	±20	1000	0.17	PCD2024CT-ND	.89	.83	.62	PCD2024TR-ND	5,000	380.00/M	ELT-5KT3R3MB
	4.7	±20	950	0.20	PCD2025CT-ND	.89	.83	.62	PCD2025TR-ND	5,000	380.00/M	ELT-5KT4R7MB
	6.8	±20	760	0.30	PCD2026CT-ND	.89	.83	.62	PCD2026TR-ND	5,000	380.00/M	ELT-5KT6R8MB
	10.0	±20	680	0.36	PCD2027CT-ND	.89	.83	.62	PCD2027TR-ND	5,000	380.00/M	ELT-5KT100MC
	15.0	±15	510	0.58	PCD2028CT-ND	.89	.83	.62	PCD2028TR-ND	5,000	380.00/M	ELT-5KT150LB
	22.0	±15	420	0.90	PCD2029CT-ND	.89	.83	.62	PCD2029TR-ND	5,000	380.00/M	ELT-5KT220LB
	33.0	±15	360	1.20	PCD2030CT-ND	.89	.83	.62	PCD2030TR-ND	5,000	380.00/M	ELT-5KT330LB
	47.0	±15	300	1.70	PCD2031CT-ND	.89	.83	.62	PCD2031TR-ND	5,000	380.00/M	ELT-5KT470LB
	68.0	±15	260	2.60	PCD2032CT-ND	.89	.83	.62	PCD2032TR-ND	5,000	380.00/M	ELT-5KT680LB
	100.0	±15	190	4.30	PCD2033CT-ND	.89	.83	.62	PCD2033TR-ND	5,000	380.00/M	ELT-5KT101LB

◆ RoHS Compliant *✔ NEW!*

SMD Choke Coils

ELC-3FN and ELC-3GN Types

Features: • Low DC resistance and large current capability • Shock resistant

Recommended Applications: • DC/DC converter circuitry for computer peripherals and cellular hand sets • Chopper circuit decoupling chokes in DC/DC converter circuitry

Rated Current: This indicates the value of current when the inductance is 70% of nominal value and case temperature has risen Δt=45°C (at 20°C)

Operating Temperature: -40°C ~ 105°C (Including self-temperature rise)

Dimensions in mm

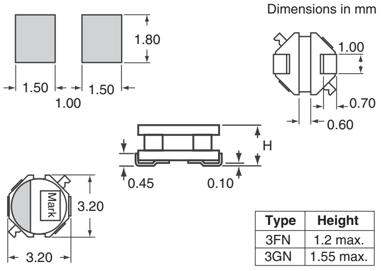

Type	Height
3FN	1.2 max.
3GN	1.55 max.

Inductance @ 100kHz (µH)	Tolerance (%)	RDC @ 20°C Tol. ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Panasonic Part No.
ELC-3FN										
1.0	±30	.080	1400	PCD2034CT-ND	.58	.55	.41	PCD2034TR-ND	250.00/M	ELC-3FN1R0N
1.8	±30	.110	1100	PCD2035CT-ND	.58	.55	.41	PCD2035TR-ND	250.00/M	ELC-3FN1R8N
2.2	±30	.120	1000	PCD2036CT-ND	.58	.55	.41	PCD2036TR-ND	250.00/M	ELC-3FN2R2N
2.7	±30	.150	950	PCD2037CT-ND	.58	.55	.41	PCD2037TR-ND	250.00/M	ELC-3FN2R7N
4.7	±30	.280	750	PCD2038CT-ND	.58	.55	.41	PCD2038TR-ND	250.00/M	ELC-3FN4R7N
5.6	±30	.310	680	PCD2039CT-ND	.58	.55	.41	PCD2039TR-ND	250.00/M	ELC-3FN5R6N
6.8	±30	.360	620	PCD2040CT-ND	.58	.55	.41	PCD2040TR-ND	250.00/M	ELC-3FN6R8N
7.5	±30	.390	600	PCD2041CT-ND	.58	.55	.41	PCD2041TR-ND	250.00/M	ELC-3FN7R5N
10.0	±20	.430	530	PCD2042CT-ND	.58	.55	.41	PCD2042TR-ND	250.00/M	ELC-3FN100M
15.0	±20	1.000	370	PCD2043CT-ND	.58	.55	.41	PCD2043TR-ND	250.00/M	ELC-3FN150M
22.0	±20	1.180	330	PCD2044CT-ND	.58	.55	.41	PCD2044TR-ND	250.00/M	ELC-3FN220M
33.0	±20	1.900	260	PCD2045CT-ND	.58	.55	.41	PCD2045TR-ND	250.00/M	ELC-3FN330M
47.0	±20	2.450	230	PCD2046CT-ND	.58	.55	.41	PCD2046TR-ND	250.00/M	ELC-3FN470M
68.0	±20	4.200	170	PCD2047CT-ND	.58	.55	.41	PCD2047TR-ND	250.00/M	ELC-3FN680M
ELC-3GN										
1.0	±30	.64	1300	PCD2048CT-ND	.61	.57	.43	PCD2048TR-ND	261.00/M	ELC-3GN1R0N
1.6	±30	.83	1200	PCD2049CT-ND	.61	.57	.43	PCD2049TR-ND	261.00/M	ELC-3GN1R6N
2.2	±30	.100	1000	PCD2050CT-ND	.61	.57	.43	PCD2050TR-ND	261.00/M	ELC-3GN2R2N
3.3	±30	.130	970	PCD2051CT-ND	.61	.57	.43	PCD2051TR-ND	261.00/M	ELC-3GN3R3N
4.7	±30	.200	760	PCD2052CT-ND	.61	.57	.43	PCD2052TR-ND	261.00/M	ELC-3GN4R7N
6.8	±30	.250	680	PCD2053CT-ND	.61	.57	.43	PCD2053TR-ND	261.00/M	ELC-3GN6R8N
8.2	±30	.410	540	PCD2054CT-ND	.61	.57	.43	PCD2054TR-ND	261.00/M	ELC-3GN8R2N
10.0	±20	.430	530	PCD2055CT-ND	.61	.57	.43	PCD2055TR-ND	261.00/M	ELC-3GN100M
15.0	±20	.600	430	PCD2056CT-ND	.61	.57	.43	PCD2056TR-ND	261.00/M	ELC-3GN150M
22.0	±20	.950	330	PCD2057CT-ND	.61	.57	.43	PCD2057TR-ND	261.00/M	ELC-3GN220M
33.0	±20	1.400	280	PCD2058CT-ND	.61	.57	.43	PCD2058TR-ND	261.00/M	ELC-3GN330M
47.0	±20	1.950	240	PCD2059CT-ND	.61	.57	.43	PCD2059TR-ND	261.00/M	ELC-3GN470M
68.0	±20	3.000	190	PCD2060CT-ND	.61	.57	.43	PCD2060TR-ND	261.00/M	ELC-3GN680M

ELL-8UV Type

Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C) **Operating Temperature:** -40°C ~ 105°C (Including self-temperature rise)

Dimensions in mm

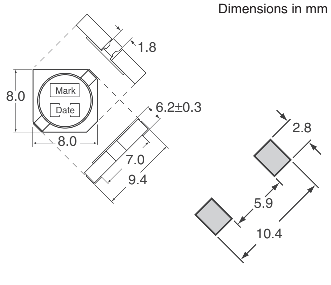

Inductance @ 100kHz (µH)	Tolerance (%)	Rated Current (mA)	RDC @ 20°C Tol. ±20%	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
1.3	±30	5.40	7.80	PCD2132CT-ND	1.44	1.34	1.02	PCD2132TR-ND	309.00	ELL-8UV1R3N
2.0	±30	5.10	8.70	PCD2133CT-ND	1.44	1.34	1.02	PCD2133TR-ND	309.00	ELL-8UV2R0N
2.7	±30	4.75	10.00	PCD2134CT-ND	1.44	1.34	1.02	PCD2134TR-ND	309.00	ELL-8UV2R7N
4.7	±30	4.20	12.00	PCD2135CT-ND	1.44	1.34	1.02	PCD2135TR-ND	309.00	ELL-8UV4R7N
6.2	±30	3.80	16.00	PCD2183CT-ND	1.44	1.34	1.02	PCD2183TR-ND	309.00	ELL-8UV6R2N
10.0	±20	3.00	22.00	PCD2136CT-ND	1.44	1.34	1.02	PCD2136TR-ND	309.00	ELL-8UV100M
15.0	±20	2.50	26.00	PCD2137CT-ND	1.44	1.34	1.02	PCD2137TR-ND	309.00	ELL-8UV150M
22.0	±20	2.05	40.00	PCD2138CT-ND	1.44	1.34	1.02	PCD2138TR-ND	309.00	ELL-8UV220M
27.0	±20	1.80	53.00	PCD2139CT-ND	1.44	1.34	1.02	PCD2139TR-ND	309.00	ELL-8UV270M
33.0	±20	1.65	78.00	PCD2184CT-ND	1.44	1.34	1.02	PCD2184TR-ND	309.00	ELL-8UV330M
39.0	±20	1.50	90.00	PCD2140CT-ND	1.44	1.34	1.02	PCD2140TR-ND	309.00	ELL-8UV390M
47.0	±20	1.25	100.00	PCD2141CT-ND	1.44	1.34	1.02	PCD2141TR-ND	309.00	ELL-8UV470M
68.0	±20	1.10	130.00	PCD2142CT-ND	1.44	1.34	1.02	PCD2142TR-ND	309.00	ELL-8UV680M
100.0	±20	0.82	160.00	PCD2143CT-ND	1.44	1.34	1.02	PCD2143TR-ND	309.00	ELL-8UV101M
220.0	±20	0.66	370.00	PCD2185CT-ND	1.44	1.34	1.02	PCD2185TR-ND	309.00	ELL-8UV221M

(Continued)

SMD Choke Coils *(Cont.)*

ELL-4FG-A, ELL-4LG-A, and ELL-4GG Types

Features:

- Magnetically shielded structure
- Low DC resistance and large current capability
- Shock resistant

Recommended Applications:

- DC-DC converter circuitry for computer peripherals and cellular phones
- Chopper circuit decoupling chokes for DC-DC converter circuitry

Fig. 1 Dimensions in mm

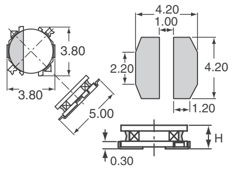

Type	Height
ELL4FG-A	1.20 max.
ELL4LG-A	1.80 max.

Fig. 2

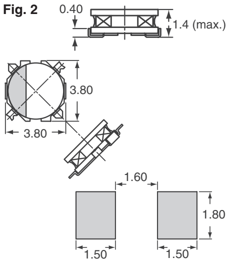

Fig.	Inductance (100kHz) Nominal (µH)	Inductance (100kHz) Tol. %	RDC (@20°C) Nominal (mΩ)	RDC (@20°C) Tol. %	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 50	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
						ELL-4FG-A Type							
1	1.0	±30	45	±20	1900	PCD2186CT-ND	.67	.63	.47	PCD2186TR-ND	2,000	287.00/M	ELL-4FG1R0NA
	1.5	±30	60	±20	1600	PCD2187CT-ND	.67	.63	.47	PCD2187TR-ND	2,000	287.00/M	ELL-4FG1R5NA
	2.0	±30	70	±20	1300	PCD2188CT-ND	.67	.63	.47	PCD2188TR-ND	2,000	287.00/M	ELL-4FG2R0NA
	3.3	±30	110	±20	1100	PCD2189CT-ND	.67	.63	.47	PCD2189TR-ND	2,000	287.00/M	ELL-4FG3R3NA
	4.7	±30	160	±20	1000	PCD2190CT-ND	.67	.63	.47	PCD2190TR-ND	2,000	287.00/M	ELL-4FG4R7NA
	6.8	±30	220	±20	800	PCD2191CT-ND	.67	.63	.47	PCD2191TR-ND	2,000	287.00/M	ELL-4FG6R8NA
	10.0	±20	290	±20	700	PCD2192CT-ND	.67	.63	.47	PCD2192TR-ND	2,000	287.00/M	ELL-4FG100MA
	15.0	±20	480	±20	600	PCD2193CT-ND	.67	.63	.47	PCD2193TR-ND	2,000	287.00/M	ELL-4FG150MA
	22.0	±20	620	±20	420	PCD2194CT-ND	.67	.63	.47	PCD2194TR-ND	2,000	287.00/M	ELL-4FG220MA
	33.0	±20	1060	±20	360	PCD2195CT-ND	.67	.63	.47	PCD2195TR-ND	2,000	287.00/M	ELL-4FG330MA
	47.0	±20	1600	±20	290	PCD2196CT-ND	.67	.63	.47	PCD2196TR-ND	2,000	287.00/M	ELL-4FG470MA
						ELL-4LG-A Type							
1	1.0	±30	41	±20	2200	PCD2213CT-ND	.57	.53	.40	PCD2213TR-ND	3,000	243.00/M	ELL-4LG1R0NA
	1.5	±30	48	±20	1700	PCD2214CT-ND	.57	.53	.40	PCD2214TR-ND	3,000	243.00/M	ELL-4LG1R5NA
	2.2	±30	55	±20	1500	PCD2215CT-ND	.57	.53	.40	PCD2215TR-ND	3,000	243.00/M	ELL-4LG2R2NA
	2.7	±30	63	±20	1400	PCD2216CT-ND	.57	.53	.40	PCD2216TR-ND	3,000	243.00/M	ELL-4LG2R7NA
	3.3	±30	72	±20	1300	PCD2217CT-ND	.57	.53	.40	PCD2217TR-ND	3,000	243.00/M	ELL-4LG3R3NA
	4.7	±30	90	±20	1100	PCD2218CT-ND	.57	.53	.40	PCD2218TR-ND	3,000	243.00/M	ELL-4LG4R7NA
	6.2	±30	140	±20	930	PCD2219CT-ND	.57	.53	.40	PCD2219TR-ND	3,000	243.00/M	ELL-4LG6R2NA
	10.0	±20	200	±20	800	PCD2220CT-ND	.57	.53	.40	PCD2220TR-ND	3,000	243.00/M	ELL-4LG100MA
	15.0	±20	300	±20	620	PCD2221CT-ND	.57	.53	.40	PCD2221TR-ND	3,000	243.00/M	ELL-4LG150MA
	22.0	±20	390	±20	550	PCD2222CT-ND	.57	.53	.40	PCD2222TR-ND	3,000	243.00/M	ELL-4LG220MA
	33.0	±20	610	±20	430	PCD2223CT-ND	.57	.53	.40	PCD2223TR-ND	3,000	243.00/M	ELL-4LG330MA
	47.0	±20	920	±20	360	PCD2224CT-ND	.57	.53	.40	PCD2224TR-ND	3,000	243.00/M	ELL-4LG470MA
	68.0	±20	1300	±20	270	PCD2225CT-ND	.57	.53	.40	PCD2225TR-ND	3,000	243.00/M	ELL-4LG680MA
	100.0	±20	2200	±20	250	PCD2226CT-ND	.57	.53	.40	PCD2226TR-ND	3,000	243.00/M	ELL-4LG101MA
	150.0	±20	3000	±20	220	PCD2227CT-ND	.57	.53	.40	PCD2227TR-ND	3,000	243.00/M	ELL-4LG151MA
						ELL-4GG Type							
2	1.2	±30	50	±20	2400	PCD2197CT-ND	.50	.47	.36	PCD2197TR-ND	2,000	216.00/M	ELL-4GG1R2N
	1.8	±30	71	±20	1900	PCD2198CT-ND	.50	.47	.36	PCD2198TR-ND	2,000	216.00/M	ELL-4GG1R8N
	2.2	±30	88	±20	1700	PCD2199CT-ND	.50	.47	.36	PCD2199TR-ND	2,000	216.00/M	ELL-4GG2R2N
	3.3	±30	110	±20	1500	PCD2200CT-ND	.50	.47	.36	PCD2200TR-ND	2,000	216.00/M	ELL-4GG3R3N
	3.9	±30	120	±20	1400	PCD2201CT-ND	.50	.47	.36	PCD2201TR-ND	2,000	216.00/M	ELL-4GG3R9N
	4.7	±30	160	±20	1200	PCD2202CT-ND	.50	.47	.36	PCD2202TR-ND	2,000	216.00/M	ELL-4GG4R7N
	5.6	±30	170	±20	1100	PCD2203CT-ND	.50	.47	.36	PCD2203TR-ND	2,000	216.00/M	ELL-4GG5R6N
	6.8	±30	200	±20	1050	PCD2204CT-ND	.50	.47	.36	PCD2204TR-ND	2,000	216.00/M	ELL-4GG6R8N
	8.2	±30	220	±20	1000	PCD2205CT-ND	.50	.47	.36	PCD2205TR-ND	2,000	216.00/M	ELL-4GG8R2N
	10.0	±20	250	±20	900	PCD2206CT-ND	.50	.47	.36	PCD2206TR-ND	2,000	216.00/M	ELL-4GG100M
	12.0	±20	380	±20	800	PCD2207CT-ND	.50	.47	.36	PCD2207TR-ND	2,000	216.00/M	ELL-4GG120M
	15.0	±20	500	±20	700	PCD2208CT-ND	.50	.47	.36	PCD2208TR-ND	2,000	216.00/M	ELL-4GG150M
	22.0	±20	640	±20	600	PCD2209CT-ND	.50	.47	.36	PCD2209TR-ND	2,000	216.00/M	ELL-4GG220M
	33.0	±20	980	±20	450	PCD2210CT-ND	.50	.47	.36	PCD2210TR-ND	2,000	216.00/M	ELL-4GG330M
	47.0	±20	1250	±20	400	PCD2211CT-ND	.50	.47	.36	PCD2211TR-ND	2,000	216.00/M	ELL-4GG470M
	100.0	±20	2400	±20	290	PCD2212CT-ND	.50	.47	.36	PCD2212TR-ND	2,000	216.00/M	ELL-4GG101M

ELL6RH, ELL6SH and ELL6UH Types

Magnetic Shielded Series

Features: • Thin type (ELL6RH – 2.5mm height, ELL6SH – 3.0mm height, ELL6UH – 4.7mm height) • Higher reliability in mounting by separated user terminal and internal connection • High current **Recommended Applications:** • Video, audio, mobile communications, electric battery driving equipment • Choke coils for chopper circuit, and decoupling choke in DC/DC convertor circuit **Cautions for Use:** • DC/DC convertor — Chopper type: 1W maximum • Operating Temperature: 105°C maximum (including self-temperature rise)

Rated Current: ELL6RH and **ELL6SH**: This indicates the value of current when the inductance is 80% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C)

ELL6UH: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition. (20°C)

Dimensions in mm

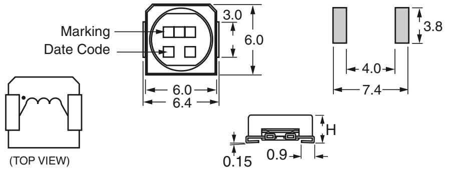

Type	Height
ELL6RH	2.5 ±0.3mm
ELL6SH	3.0 ±0.3mm
ELL6UH	4.7 ±0.3mm

Inductance @ 100kHz (µH) Tolerance ±20%	RDC @20°C (Ω) Tolerance ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 50	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
				ELL6RH Series					
1.0	0.019	3000	PCD1337CT-ND◆	.99	.92	.70	PCD1337TR-ND◆	424.00	ELL-6RH1R0M
1.5	0.024	2400	PCD1338CT-ND	.99	.92	.70	PCD1338TR-ND	424.00	ELL-6RH1R5M
2.7	0.039	1800	PCD1339CT-ND◆	.99	.92	.70	PCD1339TR-ND◆	424.00	ELL-6RH2R7M
3.3	0.044	1600	PCD1340CT-ND◆	.99	.92	.70	PCD1340TR-ND◆	424.00	ELL-6RH3R3M
5.1	0.056	1550	PCD1341CT-ND◆	.99	.92	.70	PCD1341TR-ND◆	424.00	ELL-6RH5R1M
6.2	0.062	1400	PCD1342CT-ND◆	.99	.92	.70	PCD1342TR-ND◆	424.00	ELL-6RH6R2M
7.5	0.080	1250	PCD1343CT-ND	.99	.92	.70	PCD1343TR-ND	424.00	ELL-6RH7R5M
8.2	0.087	1200	PCD1344CT-ND	.99	.92	.70	PCD1344TR-ND	424.00	ELL-6RH8R2M
10.0	0.095	1100	PCD1345CT-ND◆	.99	.92	.70	PCD1345TR-ND◆	424.00	ELL-6RH100M
12.0	0.13	1000	PCD1346CT-ND	.99	.92	.70	PCD1346TR-ND	424.00	ELL-6RH120M
15.0	0.15	850	PCD1347CT-ND◆	.99	.92	.70	PCD1347TR-ND◆	424.00	ELL-6RH150M
18.0	0.17	800	PCD1348CT-ND	.99	.92	.70	PCD1348TR-ND	424.00	ELL-6RH180M
22.0	0.22	700	PCD1349CT-ND◆	.99	.92	.70	PCD1349TR-ND◆	424.00	ELL-6RH220M
27.0	0.26	650	PCD1350CT-ND◆	.99	.92	.70	PCD1350TR-ND◆	424.00	ELL-6RH270M
33.0	0.38	600	PCD1351CT-ND◆	.99	.92	.70	PCD1351TR-ND◆	424.00	ELL-6RH330M
39.0	0.41	550	PCD1352CT-ND	.99	.92	.70	PCD1352TR-ND	424.00	ELL-6RH390M
47.0	0.48	500	PCD1353CT-ND◆	.99	.92	.70	PCD1353TR-ND◆	424.00	ELL-6RH470M
56.0	0.54	450	PCD1354CT-ND	.99	.92	.70	PCD1354TR-ND	424.00	ELL-6RH560M
68.0	0.77	400	PCD1355CT-ND◆	.99	.92	.70	PCD1355TR-ND◆	424.00	ELL-6RH680M
82.0	0.87	350	PCD1356CT-ND	.99	.92	.70	PCD1356TR-ND	424.00	ELL-6RH820M
100.0	1.00	300	PCD1357CT-ND◆	.99	.92	.70	PCD1357TR-ND◆	424.00	ELL-6RH101M
120.0	1.50	280	PCD1358CT-ND	.99	.92	.70	PCD1358TR-ND	424.00	ELL-6RH121M
150.0	1.80	250	PCD1359CT-ND◆	.99	.92	.70	PCD1359TR-ND◆	424.00	ELL-6RH151M
180.0	2.00	230	PCD1360CT-ND	.99	.92	.70	PCD1360TR-ND	424.00	ELL-6RH181M
220.0	2.30	200	PCD1361CT-ND◆	.99	.92	.70	PCD1361TR-ND◆	424.00	ELL-6RH221M
				ELL6SH Series					
1.0	0.019	3400	PCD1362CT-ND◆	.93	.87	.65	PCD1362TR-ND◆	398.00	ELL-6SH1R0M
1.5	0.024	3200	PCD1363CT-ND◆	.93	.87	.65	PCD1363TR-ND◆	398.00	ELL-6SH1R5M
2.7	0.031	2400	PCD1364CT-ND◆	.93	.87	.65	PCD1364TR-ND◆	398.00	ELL-6SH2R7M
3.3	0.034	2200	PCD1365CT-ND◆	.93	.87	.65	PCD1365TR-ND◆	398.00	ELL-6SH3R3M
4.7	0.042	2000	PCD1366CT-ND◆	.93	.87	.65	PCD1366TR-ND◆	398.00	ELL-6SH4R7M

◆ *RoHS Compliant*

(Continued)

Panasonic SMD Choke Coils

ELL6RH, ELL6SH and ELL6UH Types *(Cont.)*

Inductance @ 100kHz (µH) Tolerance ±20%	RDC @20°C (Ω) Tolerance ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
5.6	0.049	1800	PCD1367CT-ND◆	.93	.87	.65	PCD1367TR-ND◆	398.00	ELL-6SH5R6M
6.8	0.052	1500	PCD1368CT-ND◆	.93	.87	.65	PCD1368TR-ND◆	398.00	ELL-6SH6R8M
8.2	0.061	1400	PCD1369CT-ND	.93	.87	.65	PCD1369TR-ND	398.00	ELL-6SH8R2M
10.0	0.065	1300	PCD1370CT-ND◆	.93	.87	.65	PCD1370TR-ND◆	398.00	ELL-6SH100M
12.0	0.071	1200	PCD1371CT-ND◆	.93	.87	.65	PCD1371TR-ND◆	398.00	ELL-6SH120M
15.0	0.096	1100	PCD1372CT-ND◆	.93	.87	.65	PCD1372TR-ND◆	398.00	ELL-6SH150M
18.0	0.11	1000	PCD1373CT-ND◆	.93	.87	.65	PCD1373TR-ND◆	398.00	ELL-6SH180M
22.0	0.14	900	PCD1374CT-ND◆	.93	.87	.65	PCD1374TR-ND◆	398.00	ELL-6SH220M
27.0	0.16	800	PCD1375CT-ND	.93	.87	.65	PCD1375TR-ND	398.00	ELL-6SH270M
33.0	0.18	700	PCD1376CT-ND◆	.93	.87	.65	PCD1376TR-ND◆	398.00	ELL-6SH330M
39.0	0.24	650	PCD1377CT-ND◆	.93	.87	.65	PCD1377TR-ND◆	398.00	ELL-6SH390M
47.0	0.27	600	PCD1378CT-ND◆	.93	.87	.65	PCD1378TR-ND◆	398.00	ELL-6SH470M
56.0	0.29	550	PCD1379CT-ND	.93	.87	.65	PCD1379TR-ND	398.00	ELL-6SH560M
68.0	0.52	500	PCD1380CT-ND◆	.93	.87	.65	PCD1380TR-ND◆	398.00	ELL-6SH680M
82.0	0.60	450	PCD1381CT-ND	.93	.87	.65	PCD1381TR-ND	398.00	ELL-6SH820M
100.0	0.68	400	PCD1382CT-ND◆	.93	.87	.65	PCD1382TR-ND◆	398.00	ELL-6SH101M
120.0	0.75	370	PCD1383CT-ND◆	.93	.87	.65	PCD1383TR-ND◆	398.00	ELL-6SH121M
150.0	0.86	350	PCD1384CT-ND◆	.93	.87	.65	PCD1384TR-ND◆	398.00	ELL-6SH151M
180.0	1.20	300	PCD1385CT-ND◆	.93	.87	.65	PCD1385TR-ND◆	398.00	ELL-6SH181M
220.0	1.40	280	PCD1386CT-ND◆	.93	.87	.65	PCD1386TR-ND◆	398.00	ELL-6SH221M
270.0	2.40	260	PCD1387CT-ND	.93	.87	.65	PCD1387TR-ND	398.00	ELL-6SH271M
330.0	2.70	240	PCD1388CT-ND◆	.93	.87	.65	PCD1388TR-ND◆	398.00	ELL-6SH331M
390.0	2.80	210	PCD1389CT-ND◆	.93	.87	.65	PCD1389TR-ND◆	398.00	ELL-6SH391M
470.0	3.20	200	PCD1390CT-ND◆	.93	.87	.65	PCD1390TR-ND◆	398.00	ELL-6SH471M
560.0	3.70	180	PCD1391CT-ND◆	.93	.87	.65	PCD1391TR-ND◆	398.00	ELL-6SH561M
680.0	4.30	160	PCD2182CT-ND◆	.93	.87	.65	PCD2182TR-ND◆	398.00	ELL-6SH681M
ELL6UH Series — RoHS Compliant									
10.0	0.063	1800	PCD2107CT-ND	.66	.62	.47	PCD2107TR-ND	284.00	ELL-6UH100M
12.0	0.071	1700	PCD2108CT-ND	.66	.62	.47	PCD2108TR-ND	284.00	ELL-6UH120M
15.0	0.079	1600	PCD2109CT-ND	.66	.62	.47	PCD2109TR-ND	284.00	ELL-6UH150M
18.0	0.088	1400	PCD2110CT-ND	.66	.62	.47	PCD2110TR-ND	284.00	ELL-6UH180M
22.0	0.098	1300	PCD2111CT-ND	.66	.62	.47	PCD2111TR-ND	284.00	ELL-6UH220M
27.0	0.110	1200	PCD2112CT-ND	.66	.62	.47	PCD2112TR-ND	284.00	ELL-6UH270M
33.0	0.130	1100	PCD2113CT-ND	.66	.62	.47	PCD2113TR-ND	284.00	ELL-6UH330M
39.0	0.150	1000	PCD2114CT-ND	.66	.62	.47	PCD2114TR-ND	284.00	ELL-6UH390M
47.0	0.160	900	PCD2115CT-ND	.66	.62	.47	PCD2115TR-ND	284.00	ELL-6UH470M
56.0	0.210	800	PCD2116CT-ND	.66	.62	.47	PCD2116TR-ND	284.00	ELL-6UH560M
68.0	0.230	700	PCD2117CT-ND	.66	.62	.47	PCD2117TR-ND	284.00	ELL-6UH680M
82.0	0.260	650	PCD2118CT-ND	.66	.62	.47	PCD2118TR-ND	284.00	ELL-6UH820M
100.0	0.360	600	PCD2119CT-ND	.66	.62	.47	PCD2119TR-ND	284.00	ELL-6UH101M
120.0	0.480	580	PCD2120CT-ND	.66	.62	.47	PCD2120TR-ND	284.00	ELL-6UH121M
150.0	0.680	500	PCD2121CT-ND	.66	.62	.47	PCD2121TR-ND	284.00	ELL-6UH151M
180.0	0.750	470	PCD2122CT-ND	.66	.62	.47	PCD2122TR-ND	284.00	ELL-6UH181M
220.0	0.840	410	PCD2123CT-ND	.66	.62	.47	PCD2123TR-ND	284.00	ELL-6UH221M
270.0	1.200	370	PCD2124CT-ND	.66	.62	.47	PCD2124TR-ND	284.00	ELL-6UH271M
330.0	1.360	330	PCD2125CT-ND	.66	.62	.47	PCD2125TR-ND	284.00	ELL-6UH331M
390.0	1.500	300	PCD2126CT-ND	.66	.62	.47	PCD2126TR-ND	284.00	ELL-6UH391M
470.0	1.680	270	PCD2127CT-ND	.66	.62	.47	PCD2127TR-ND	284.00	ELL-6UH471M
560.0	2.530	260	PCD2128CT-ND	.66	.62	.47	PCD2128TR-ND	284.00	ELL-6UH561M
680.0	2.830	240	PCD2129CT-ND	.66	.62	.47	PCD2129TR-ND	284.00	ELL-6UH681M
820.0	3.140	200	PCD2130CT-ND	.66	.62	.47	PCD2130TR-ND	284.00	ELL-6UH821M
1000.0	3.670	180	PCD2131CT-ND	.66	.62	.47	PCD2131TR-ND	284.00	ELL-6UH102M

◆ *RoHS Compliant*

ELL-6GG and ELL-6PG Types

Features:

- Magnetically shielded structure
- Low DC resistance and large current capabilities

Recommended Applications:

- DC-DC converter circuitry for computer peripherals and cellular phones
- Chopper circuit decoupling chokes for DC-DC converter circuitry

Dimensions in mm

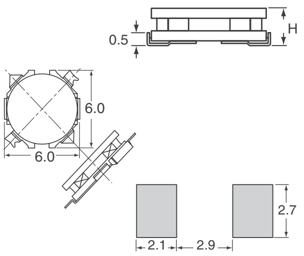

Type	Height
ELL6GG	1.6 max.
ELL6PG	2.0 max.

Inductance (100kHz)		RDC (@ 20°C)		Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Panasonic Part No.
Nominal (µH)	Tol. %	Nominal (mΩ)	Tol. %			1	50	100			
ELL-6GG Type											
1.0	±30	27	±20	2500	PCD2243CT-ND	.80	.75	.57	PCD2243TR-ND	345.00	ELL-6GG1R0N
1.5	±30	36	±20	2300	PCD2244CT-ND	.80	.75	.57	PCD2244TR-ND	345.00	ELL-6GG1R5N
2.2	±20	45	±20	1950	PCD2245CT-ND	.80	.75	.57	PCD2245TR-ND	345.00	ELL-6GG2R2M
2.7	±20	54	±20	1850	PCD2246CT-ND	.80	.75	.57	PCD2246TR-ND	345.00	ELL-6GG2R7M
3.9	±20	60	±20	1650	PCD2247CT-ND	.80	.75	.57	PCD2247TR-ND	345.00	ELL-6GG3R9M
4.7	±20	70	±20	1400	PCD2248CT-ND	.80	.75	.57	PCD2248TR-ND	345.00	ELL-6GG4R7M
6.8	±20	110	±20	1150	PCD2249CT-ND	.80	.75	.57	PCD2249TR-ND	345.00	ELL-6GG6R8M
10.0	±20	170	±20	900	PCD2250CT-ND	.80	.75	.57	PCD2250TR-ND	345.00	ELL-6GG100M
15.0	±20	210	±20	800	PCD2251CT-ND	.80	.75	.57	PCD2251TR-ND	345.00	ELL-6GG150M
22.0	±20	300	±20	620	PCD2252CT-ND	.80	.75	.57	PCD2252TR-ND	345.00	ELL-6GG220M
33.0	±20	510	±20	490	PCD2253CT-ND	.80	.75	.57	PCD2253TR-ND	345.00	ELL-6GG330M
47.0	±20	610	±20	400	PCD2254CT-ND	.80	.75	.57	PCD2254TR-ND	345.00	ELL-6GG470M
68.0	±20	860	±20	380	PCD2255CT-ND	.80	.75	.57	PCD2255TR-ND	345.00	ELL-6GG680M
100.0	±20	1480	±20	300	PCD2256CT-ND	.80	.75	.57	PCD2256TR-ND	345.00	ELL-6GG101M
ELL-6PG Type											
0.8	±30	24	±20	3800	PCD2257CT-ND	.68	.64	.48	PCD2257TR-ND	291.00	ELL-6PGR08N
1.5	±30	30	±20	2500	PCD2258CT-ND	.68	.64	.48	PCD2258TR-ND	291.00	ELL-6PG1R5N
2.2	±30	37	±20	2200	PCD2259CT-ND	.68	.64	.48	PCD2259TR-ND	291.00	ELL-6PG2R2N
3.3	±30	44	±20	1700	PCD2260CT-ND	.68	.64	.48	PCD2260TR-ND	291.00	ELL-6PG3R3N
3.9	±30	51	±20	1600	PCD2261CT-ND	.68	.64	.48	PCD2261TR-ND	291.00	ELL-6PG3R9N
4.7	±30	58	±20	1500	PCD2262CT-ND	.68	.64	.48	PCD2262TR-ND	291.00	ELL-6PG4R7N
5.6	±30	65	±20	1450	PCD2263CT-ND	.68	.64	.48	PCD2263TR-ND	291.00	ELL-6PG5R6N
6.8	±30	70	±20	1400	PCD2264CT-ND	.68	.64	.48	PCD2264TR-ND	291.00	ELL-6PG6R8N
10.0	±20	110	±20	1300	PCD2265CT-ND	.68	.64	.48	PCD2265TR-ND	291.00	ELL-6PG100M
15.0	±20	150	±20	1000	PCD2266CT-ND	.68	.64	.48	PCD2266TR-ND	291.00	ELL-6PG150M
22.0	±20	230	±20	800	PCD2267CT-ND	.68	.64	.48	PCD2267TR-ND	291.00	ELL-6PG220M
27.0	±20	260	±20	730	PCD2268CT-ND	.68	.64	.48	PCD2268TR-ND	291.00	ELL-6PG270M
33.0	±20	300	±20	700	PCD2269CT-ND	.68	.64	.48	PCD2269TR-ND	291.00	ELL-6PG330M
47.0	±20	470	±20	550	PCD2270CT-ND	.68	.64	.48	PCD2270TR-ND	291.00	ELL-6PG470M
56.0	±20	520	±20	500	PCD2271CT-ND	.68	.64	.48	PCD2271TR-ND	291.00	ELL-6PG560M
68.0	±20	700	±20	420	PCD2272CT-ND	.68	.64	.48	PCD2272TR-ND	291.00	ELL-6PG680M
82.0	±20	800	±20	400	PCD2273CT-ND	.68	.64	.48	PCD2273TR-ND	291.00	ELL-6PG820M
100.0	±20	1000	±20	380	PCD2274CT-ND	.68	.64	.48	PCD2274TR-ND	291.00	ELL-6PG101M

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® SMD Power Choke Coils

ELL6GM Type

Features: • Magnetic shielded structure • Low DC resistance and high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion

Recommended Applications: • DC/DC converter • Chopper circuit, decoupling choke

Note:
† Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		Rated Current† (mA)	Digi-Key Part No.	Cut Tape Price Each			Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (Ω)	Tolerance (%)			1	50	100	
1.8	±30	0.028	±20	1,900	PCD1674CT-ND◆	1.30	1.21	.91	ELL-6GM1R8N
5.6	±30	0.086	±20	1,200	PCD1679CT-ND	1.30	1.21	.91	ELL-6GM5R6N
12.0	±20	0.17	±20	830	PCD1683CT-ND	1.30	1.21	.91	ELL-6GM120M
18.0	±20	0.26	±20	710	PCD1685CT-ND	1.30	1.21	.91	ELL-6GM180M
27.0	±20	0.35	±20	560	PCD1687CT-ND	1.30	1.21	.91	ELL-6GM270M
56.0	±20	0.70	±20	380	PCD1691CT-ND	1.30	1.21	.91	ELL-6GM560M
68.0	±20	0.82	±20	350	PCD1692CT-ND	1.30	1.21	.91	ELL-6GM680M

◆ ***RoHS Compliant***

Dimensions in mm

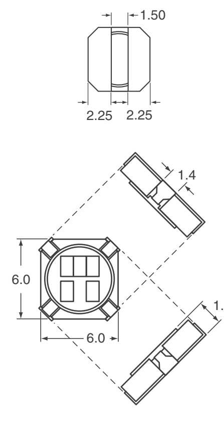

ELL6PM Type

Features: • Magnetic shielded structure • Low DC resistance and high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion

Recommended Applications: • DC/DC converter • Chopper circuit, decoupling choke

Note:
† Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		Rated Current† (mA)	Digi-Key Part No.	Cut Tape Price Each			Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (Ω)	Tolerance (%)			1	50	100	
1.5	±30	0.020	±20	2,450	PCD1694CT-ND◆	1.37	1.27	.96	ELL-6PM1R5N
3.9	±30	0.040	±20	1,800	PCD1698CT-ND	1.37	1.27	.96	ELL-6PM3R9N
5.6	±30	0.052	±20	1,500	PCD1700CT-ND	1.37	1.27	.96	ELL-6PM5R6N
7.5	±30	0.070	±20	1,300	PCD1702CT-ND	1.37	1.27	.96	ELL-6PM7R5N
9.1	±30	0.077	±20	1,200	PCD1703CT-ND	1.37	1.27	.96	ELL-6PM9R1N
12.0	±20	0.11	±20	950	PCD1705CT-ND	1.37	1.27	.96	ELL-6PM120M
27.0	±20	0.22	±20	620	PCD1709CT-ND	1.37	1.27	.96	ELL-6PM270M
33.0	±20	0.29	±20	550	PCD1710CT-ND	1.37	1.27	.96	ELL-6PM330M
39.0	±20	0.31	±20	520	PCD1711CT-ND	1.37	1.27	.96	ELL-6PM390M
82.0	±20	0.68	±20	360	PCD1715CT-ND	1.37	1.27	.96	ELL-6PM820M

◆ ***RoHS Compliant***

Dimensions in mm

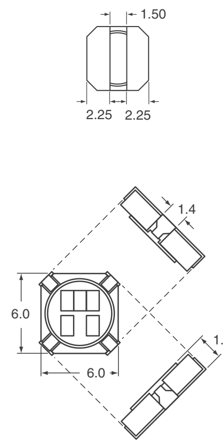

ELL6PV Type

Features: • Thin type (height, 1.8mm) • Capable of corresponding high current • Low DC resistance

Recommended Application: • Videos, audio, mobile communications, electric battery driving equipment • Choke coils for chopper circuit decoupling choke in DC/DC convertor circuit

Cautions for Use: • DC/DC power converter • Chopper type: 1W maximum • Operating temperature: 105°C maximum (Including self-temperature rise)

Note:
† Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		Rated Current† (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (Ω)	Tolerance (%)			1	50	100			
1.8	±30	0.024	±20	2,500	PCD1719CT-ND	1.14	1.06	.80	—	—	ELL-6PV1R8N
5.6	±30	0.049	±20	1,450	PCD1724CT-ND	1.14	1.06	.80	—	—	ELL-6PV5R6N
8.2	±30	0.070	±20	1,150	PCD1726CT-ND◆	1.14	1.06	.80	—	—	ELL-6PV8R2N
9.1	±30	0.076	±20	1,100	PCD1727CT-ND	1.14	1.06	.80	—	—	ELL-6PV9R1N
12.0	±20	0.090	±20	980	PCD1729CT-ND◆	1.14	1.06	.80	—	—	ELL-6PV120M
56.0	±20	0.41	±20	450	PCD1737CT-ND	1.14	1.06	.80	—	—	ELL-6PV560M
68.0	±20	0.57	±20	420	PCD1738CT-ND◆	1.14	1.06	.80	—	—	ELL-6PV680M
82.0	±20	0.65	±20	380	PCD1739CT-ND	1.14	1.06	.80	PCD1739TR-ND	488.00	ELL-6PV820M

◆ ***RoHS Compliant***

Dimensions in mm

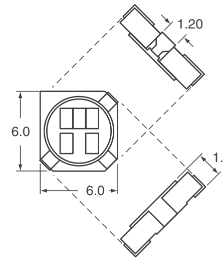

Panasonic SMD Choke Coils

ELL3GM Type

Dimensions in mm

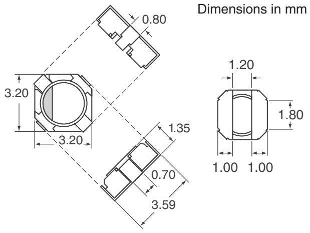

Features: • Magnetic shielded structure • Low DC resistance, high current • Shock resistant • Available on tape and reel for automatic insertion

Recommended Applications:
• DC/DC Converter Circuit for computer peripheral, Hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Note:
† Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when case temperature has risen 45°C (at 20°C).

Inductance (100kHz)		RDC (@20°C)		Rated Current† (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (Ω)	Tolerance (%)			1	50	100	
3.9	±30	0.14	±20	940	PCD1646CT-ND	1.03	.97	.73	ELL-3GM3R9N
4.3	±30	0.22	±20	720	PCD1647CT-ND	1.03	.97	.73	ELL-3GM4R3N

ELL4LM and ELL4GM Types

Dimensions in mm

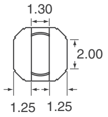

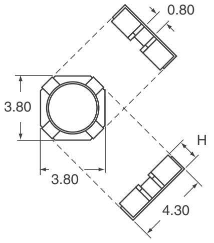

Type	Height (mm)
4LM	1.8 Max.
4GM	1.5 Max.

Series ELL4LM
Features: • Magnetic shielded structure • Low DC resistance, high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion
Recommended Applications: • DC/DC Converter Circuit for Computer peripheral, hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Series ELL4GM
Features: • Low Profile • High Power • High Inductance • Shock Resistant **Recommended Applications:** • Digital Base Band

Operating Temperature: -40°C ~ 105°C (Including self-temperature rise)

Note:
† Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when case temperature has risen 45°C (at 20°C).

Inductance (100kHz)		RDC (@20°C)		Rated Current† (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (µH)	Tolerance (%)			1	50	100	
ELL4LM Series									
6.2	±30	0.14	±20	800	PCD1665CT-ND◆	1.16	1.08	.81	ELL-4LM6R2N
18.0	±20	0.32	±20	460	PCD1670CT-ND	1.16	1.08	.81	ELL-4LM180M
27.0	±20	0.42	±20	370	PCD1672CT-ND◆	1.16	1.08	.81	ELL-4LM270M
ELL4GM Series — RoHS Compliant									
3.6	±30	0.10	±20	950	PCD2062CT-ND	.79	.74	.56	ELL-4GM3R6N
6.8	±30	0.18	±20	640	PCD2065CT-ND	.79	.74	.56	ELL-4GM6R8N
18.0	±20	0.49	±20	400	PCD2068CT-ND	.79	.74	.56	ELL-4GM180M
27.0	±20	0.64	±20	330	PCD2070CT-ND	.79	.74	.56	ELL-4GM270M
47.0	±20	1.05	±20	260	PCD2180CT-ND	.79	.74	.56	ELL-4GM470M

◆ RoHS Compliant

ELL-VEG, ELL-VFG-C and ELL-VGG Types

Dimensions in mm

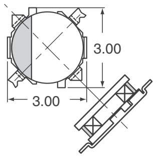

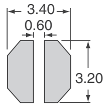

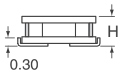

Type	Height (mm)
ELL-VEG	1.0 max.
ELL-VFG-C	1.2 max.
ELL-VGG	1.5 max.

Features: • Magnetically shielded structure • Low DC resistance and large current capability • Shock Resistance
Recommended Applications: • DC-DC converter circuitry for computer peripherals and cellular phones • Chopper circuit decoupling chokes for DC-DC converter circuitry

Note: **† Saturation Rated Current:** This DC current which causes a 30% inductance reduction from its nominal value

Inductance (100kHz)		RDC (@20°C)		Saturation Rated Current† (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (mΩ)	Tolerance (%)			1	50	100			
ELL-VEG Type											
1.0	±30	61	±20	1,900	PCD2275CT-ND	.41	.38	.29	PCD2275TR-ND	175.00/M	ELL-VEG1R0N
1.5	±30	74	±20	1,200	PCD2276CT-ND	.41	.38	.29	PCD2276TR-ND	175.00/M	ELL-VEG1R5N
2.2	±30	110	±20	1,100	PCD2277CT-ND	.41	.38	.29	PCD2277TR-ND	175.00/M	ELL-VEG2R2N
3.3	±30	210	±20	1,000	PCD2278CT-ND	.41	.38	.29	PCD2278TR-ND	175.00/M	ELL-VEG3R3N
4.7	±30	240	±20	750	PCD2279CT-ND	.41	.38	.29	PCD2279TR-ND	175.00/M	ELL-VEG4R7N
6.8	±30	350	±20	580	PCD2280CT-ND	.41	.38	.29	PCD2280TR-ND	175.00/M	ELL-VEG6R8N
10.0	±20	480	±20	520	PCD2281CT-ND	.41	.38	.29	PCD2281TR-ND	175.00/M	ELL-VEG100M
15.0	±20	710	±20	430	PCD2282CT-ND	.41	.38	.29	PCD2282TR-ND	175.00/M	ELL-VEG150M
22.0	±20	1,200	±20	330	PCD2283CT-ND	.41	.38	.29	PCD2283TR-ND	175.00/M	ELL-VEG220M
ELL-VFG-C Type											
1.0	±30	50	±20	1,500	PCD2287CT-ND	.45	.42	.32	PCD2287TR-ND	191.00/M	ELL-VFG1R0NC
1.5	±30	61	±20	1,300	PCD2288CT-ND	.45	.42	.32	PCD2288TR-ND	191.00/M	ELL-VFG1R5NC
2.2	±30	87	±20	1,100	PCD2289CT-ND	.45	.42	.32	PCD2289TR-ND	191.00/M	ELL-VFG2R2NC
3.3	±30	110	±20	980	PCD2290CT-ND	.45	.42	.32	PCD2290TR-ND	191.00/M	ELL-VFG3R3NC
4.7	±30	150	±20	740	PCD2291CT-ND	.45	.42	.32	PCD2291TR-ND	191.00/M	ELL-VFG4R7NC
6.8	±30	230	±20	600	PCD2292CT-ND	.45	.42	.32	PCD2292TR-ND	191.00/M	ELL-VFG6R8NC
10.0	±20	380	±20	550	PCD2293CT-ND	.45	.42	.32	PCD2293TR-ND	191.00/M	ELL-VFG100MC
15.0	±20	540	±20	500	PCD2294CT-ND	.45	.42	.32	PCD2294TR-ND	191.00/M	ELL-VFG150MC
22.0	±20	710	±20	350	PCD2295CT-ND	.45	.42	.32	PCD2295TR-ND	191.00/M	ELL-VFG220MC
33.0	±20	1,160	±20	280	PCD2296CT-ND	.45	.42	.32	PCD2296TR-ND	191.00/M	ELL-VFG330MC
ELL-VGG Type											
1.0	±30	52	±20	2,200	PCD2297CT-ND	.40	.37	.28	PCD2297TR-ND	171.00/M	ELL-VGG1R0N
1.6	±30	73	±20	1,800	PCD2298CT-ND	.40	.37	.28	PCD2298TR-ND	171.00/M	ELL-VGG1R6N
2.2	±30	92	±20	1,600	PCD2299CT-ND	.40	.37	.28	PCD2299TR-ND	171.00/M	ELL-VGG2R2N
3.3	±30	130	±20	1,350	PCD2300CT-ND	.40	.37	.28	PCD2300TR-ND	171.00/M	ELL-VGG3R3N
3.9	±30	150	±20	1,300	PCD2301CT-ND	.40	.37	.28	PCD2301TR-ND	171.00/M	ELL-VGG3R9N
4.7	±30	170	±20	1,200	PCD2302CT-ND	.40	.37	.28	PCD2302TR-ND	171.00/M	ELL-VGG4R7N
6.8	±30	230	±20	1,000	PCD2303CT-ND	.40	.37	.28	PCD2303TR-ND	171.00/M	ELL-VGG6R8N
10.0	±20	280	±20	800	PCD2304CT-ND	.40	.37	.28	PCD2304TR-ND	171.00/M	ELL-VGG100M
12.0	±20	480	±20	690	PCD2305CT-ND	.40	.37	.28	PCD2305TR-ND	171.00/M	ELL-VGG120M
15.0	±20	640	±20	600	PCD2306CT-ND	.40	.37	.28	PCD2306TR-ND	171.00/M	ELL-VGG150M
22.0	±20	800	±20	500	PCD2307CT-ND	.40	.37	.28	PCD2307TR-ND	171.00/M	ELL-VGG220M
33.0	±20	1,330	±20	450	PCD2308CT-ND	.40	.37	.28	PCD2308TR-ND	171.00/M	ELL-VGG330M
47.0	±20	2,100	±20	350	PCD2309CT-ND	.40	.37	.28	PCD2309TR-ND	171.00/M	ELL-VGG470M

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ELLATV Type

Dimensions in mm

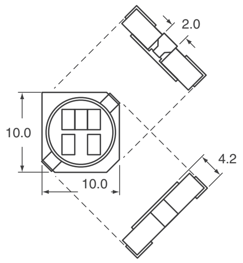

Features: • Magnetic shielded structure • Low DC resistance and capable of corresponding high current • Available on tape and reel for automatic insertion
Recommended Applications: • DC/DC converter circuit for computer peripheral, LCD • Choke coils for chopper circuit decoupling choked in DC/DC Converter Circuit
***Note:* † Rated Current:** This indicates the value of current when the inductance is 70%of nominal value or when the case temperature has risen 45°C (@20°C)

Inductance (100kHz)		RDC (@20°C)		Rated Current† (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (mΩ)	Tolerance (%)			1	50	100			
1.5	±30	5.3	±20	6,700	PCD1741CT-ND◆	1.66	1.54	1.16	PCD1741TR-ND◆	354.50	ELL-ATV1R5N
2.2	±30	6.3	±20	6,200	PCD1742CT-ND◆	1.66	1.54	1.16	PCD1742TR-ND◆	354.50	ELL-ATV2R2N
3.3	±30	8.8	±20	5,350	PCD1743CT-ND◆	1.66	1.54	1.16	PCD1743TR-ND◆	354.50	ELL-ATV3R3N
4.3	±30	10	±20	5,000	PCD1744CT-ND◆	1.66	1.54	1.16	PCD1744TR-ND◆	354.50	ELL-ATV4R3N
5.1	±30	14	±20	4,350	PCD1745CT-ND◆	1.66	1.54	1.16	PCD1745TR-ND◆	354.50	ELL-ATV5R1N
6.8	±30	16	±20	4,000	PCD1746CT-ND◆	1.66	1.54	1.16	PCD1746TR-ND◆	354.50	ELL-ATV6R8N
8.2	±30	18	±20	3,700	PCD1747CT-ND◆	1.66	1.54	1.16	PCD1747TR-ND◆	354.50	ELL-ATV8R2N
10.0	±20	23	±20	3,300	PCD1748CT-ND◆	1.66	1.54	1.16	PCD1748TR-ND◆	354.50	ELL-ATV100M
12.0	±20	25	±20	2,900	PCD1749CT-ND◆	1.66	1.54	1.16	PCD1749TR-ND◆	354.50	ELL-ATV120M
15.0	±20	32	±20	2,800	PCD1750CT-ND◆	1.66	1.54	1.16	PCD1750TR-ND◆	354.50	ELL-ATV150M
18.0	±20	38	±20	2,500	PCD1751CT-ND◆	1.66	1.54	1.16	PCD1751TR-ND◆	354.50	ELL-ATV180M
22.0	±20	45	±20	2,200	PCD1752CT-ND◆	1.66	1.54	1.16	PCD1752TR-ND◆	354.50	ELL-ATV220M
27.0	±20	56	±20	2,000	PCD1753CT-ND◆	1.66	1.54	1.16	PCD1753TR-ND◆	354.50	ELL-ATV270M
33.0	±20	62	±20	1,800	PCD1754CT-ND◆	1.66	1.54	1.16	PCD1754TR-ND◆	354.50	ELL-ATV330M
39.0	±20	74	±20	1,600	PCD1755CT-ND◆	1.66	1.54	1.16	PCD1755TR-ND◆	354.50	ELL-ATV390M
47.0	±20	94	±20	1,550	PCD1756CT-ND◆	1.66	1.54	1.16	PCD1756TR-ND◆	354.50	ELL-ATV470M
56.0	±20	100	±20	1,350	PCD1757CT-ND◆	1.66	1.54	1.16	PCD1757TR-ND◆	354.50	ELL-ATV560M
68.0	±20	130	±20	1,200	PCD1758CT-ND◆	1.66	1.54	1.16	PCD1758TR-ND◆	354.50	ELL-ATV680M
82.0	±20	150	±20	1,100	PCD1759CT-ND◆	1.66	1.54	1.16	PCD1759TR-ND◆	354.50	ELL-ATV820M
100.0	±20	180	±20	1,000	PCD1760CT-ND◆	1.66	1.54	1.16	PCD1760TR-ND◆	354.50	ELL-ATV101M
120.0	±20	190	±20	840	PCD1761CT-ND◆	1.66	1.54	1.16	PCD1761TR-ND◆	354.50	ELL-ATV121M
150.0	±20	250	±20	780	PCD1762CT-ND◆	1.66	1.54	1.16	PCD1762TR-ND◆	354.50	ELL-ATV151M
180.0	±20	320	±20	750	PCD1763CT-ND	1.66	1.54	1.16	PCD1763TR-ND	354.50	ELL-ATV181M
220.0	±20	360	±20	700	PCD1764CT-ND◆	1.66	1.54	1.16	PCD1764TR-ND◆	354.50	ELL-ATV221M
270.0	±20	460	±20	600	PCD1765CT-ND◆	1.66	1.54	1.16	PCD1765TR-ND◆	354.50	ELL-ATV271M
330.0	±20	550	±20	550	PCD1766CT-ND◆	1.66	1.54	1.16	PCD1766TR-ND◆	354.50	ELL-ATV331M
390.0	±20	690	±20	520	PCD1767CT-ND	1.66	1.54	1.16	PCD1767TR-ND	354.50	ELL-ATV391M
470.0	±20	780	±20	470	PCD1768CT-ND◆	1.66	1.54	1.16	PCD1768TR-ND◆	354.50	ELL-ATV471M
560.0	±20	820	±20	390	PCD1769CT-ND◆	1.66	1.54	1.16	PCD1769TR-ND◆	354.50	ELL-ATV561M
680.0	±20	1,150	±20	370	PCD1770CT-ND◆	1.66	1.54	1.16	PCD1770TR-ND◆	354.50	ELL-ATV681M
820.0	±20	1,270	±20	340	PCD1771CT-ND	1.66	1.54	1.16	PCD1771TR-ND	354.50	ELL-ATV821M
1000.0	±20	1,750	±20	320	PCD1772CT-ND◆	1.66	1.54	1.16	PCD1772TR-ND◆	354.50	ELL-ATV102M

◆ ***RoHS Compliant***

ELL-5PS Type

Dimensions in mm

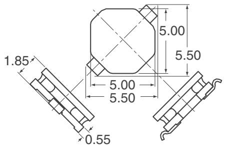

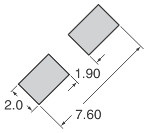

Features: • Magnetically shielded structure • Low DC resistance and large current capabilities
Recommended Applications: • DC-DC converter circuitry for computer peripherals and cellular phones • Chopper circuit decoupling chokes for DC-DC converter circuitry
***Note:* † Rated Current:** This indicates the value of current when the inductance is 70% of than nominal value or when the case temperature has risen 45°C (@20°C)

Inductance (100kHz)		RDC (@20°C)		Rated Current† (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (mΩ)	Tolerance (%)			1	50	100			
1.2	±30	22	±20	2,500	PCD2228CT-ND	.60	.56	.42	PCD2228TR-ND	257.00/M	ELL-5PS1R2N
1.5	±30	28	±20	2,400	PCD2229CT-ND	.60	.56	.42	PCD2229TR-ND	257.00/M	ELL-5PS1R5N
2.2	±30	34	±20	2,100	PCD2230CT-ND	.60	.56	.42	PCD2230TR-ND	257.00/M	ELL-5PS2R2N
2.7	±30	40	±20	2,000	PCD2231CT-ND	.60	.56	.42	PCD2231TR-ND	257.00/M	ELL-5PS2R7N
3.3	±30	46	±20	1,900	PCD2232CT-ND	.60	.56	.42	PCD2232TR-ND	257.00/M	ELL-5PS3R3N
4.7	±30	61	±20	1,500	PCD2233CT-ND	.60	.56	.42	PCD2233TR-ND	257.00/M	ELL-5PS4R7N
10.0	±20	120	±20	1,000	PCD2234CT-ND	.60	.56	.42	PCD2234TR-ND	257.00/M	ELL-5PS100M
15.0	±20	170	±20	790	PCD2235CT-ND	.60	.56	.42	PCD2235TR-ND	257.00/M	ELL-5PS150M
22.0	±20	290	±20	650	PCD2236CT-ND	.60	.56	.42	PCD2236TR-ND	257.00/M	ELL-5PS220M
33.0	±20	470	±20	490	PCD2237CT-ND	.60	.56	.42	PCD2237TR-ND	257.00/M	ELL-5PS330M
47.0	±20	620	±20	450	PCD2238CT-ND	.60	.56	.42	PCD2238TR-ND	257.00/M	ELL-5PS470M
56.0	±20	680	±20	430	PCD2239CT-ND	.60	.56	.42	PCD2239TR-ND	257.00/M	ELL-5PS560M
68.0	±20	750	±20	380	PCD2240CT-ND	.60	.56	.42	PCD2240TR-ND	257.00/M	ELL-5PS680M
82.0	±20	1,160	±20	340	PCD2241CT-ND	.60	.56	.42	PCD2241TR-ND	257.00/M	ELL-5PS820M
100.0	20	1,320	±20	300	PCD2242CT-ND	.60	.56	.42	PCD2242TR-ND	257.00/M	ELL-5PS101M

ELL5GM and ELL5PM Types

Dimensions in mm

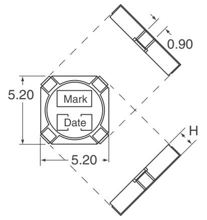

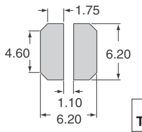

Type	Height (mm)
5GM	1.5 max.
5PM	2.0 max.

Features: • Magnetic shielded structure • Low DC resistance and large current capability • Shock resistant structure
Recommended Applications: • DC/DC converter circuitry for computer peripherals and cellular hand sets • Chopper circuit decoupling chokes in DC/DC converter circuitry
Operating Temperature: -40°C ~ 105°C (Including self-temperature rise)
***Note:* † Rated Current:** This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45°C (@20°C)

Inductance (100kHz)		RDC (@20°C)		Rated Current† (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Nominal (µH)	Tolerance (%)	Nominal (mΩ)	Tolerance (%)			1	50	100			
ELL5GM Series											
8.2	±30	140	±20	850	PCD2078CT-ND	.81	.76	.57	—	—	ELL-5GM8R2N
15.0	±20	250	±20	650	PCD2081CT-ND	.81	.76	.57	—	—	ELL-5GM150M
27.0	±20	430	±20	450	PCD2084CT-ND	.81	.76	.57	—	—	ELL-5GM270M
33.0	±20	490	±20	400	PCD2085CT-ND	.81	.76	.57	—	—	ELL-5GM330M
47.0	±20	930	±20	390	PCD2181CT-ND	.81	.76	.57	PCD2181TR-ND	349.00/M	ELL-5GM470M
ELL5PM Series											
8.2	±30	81	±20	1,050	PCD2094CT-ND	.89	.83	.63	—	—	ELL-5PM8R2N
12.0	±20	120	±20	850	PCD2096CT-ND	.89	.83	.63	—	—	ELL-5PM120M
22.0	±20	210	±20	680	PCD2099CT-ND	.89	.83	.63	—	—	ELL-5PM220M
33.0	±20	270	±20	530	PCD2101CT-ND	.89	.83	.63	—	—	ELL-5PM330M
56.0	±20	610	±20	400	PCD2104CT-ND	.89	.83	.63	—	—	ELL-5PM560M
82.0	±20	780	±20	320	PCD2106CT-ND	.89	.83	.63	PCD2106TR-ND	383.00/M	ELL-5PM820M

(Continued)

ELLCTV Type

Features:
- Magnetic shielded structure • Low DC resistance and large current capability

Recommended Applications:
- DC/DC converter circuitry for computer peripherals and cellular hand sets • Chopper circuit decoupling chokes in DC/DC converter circuitry

Operating Temperature: -40°C ~ 105°C (Including self-temperature rise)

Note: **† Rated Current:** This indicates the value of current when the inductance is 70%of nominal value or when the case temperature has risen 45°C (@20°C)

Dimensions in mm

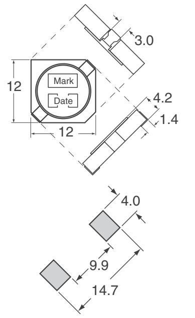

Inductance (100kHz)		RDC (@20°C)		Rated Current†	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Panasonic
Nominal (µH)	Tolerance (%)	Nominal (mΩ)	Tolerance (%)	(mA)	Part No.	1	50	100	Part No.	500	Part No.
1.2	±30	4.6	±20	6,500	PCD2144CT-ND	1.74	1.62	1.22	PCD2144TR-ND	373.00	ELL-CTV1R2N
2.0	±30	5.6	±20	6,300	PCD2145CT-ND	1.74	1.62	1.22	PCD2145TR-ND	373.00	ELL-CTV2R0N
2.7	±30	7.0	±20	5,700	PCD2146CT-ND	1.74	1.62	1.22	PCD2146TR-ND	373.00	ELL-CTV2R7N
3.9	±30	8.5	±20	5,600	PCD2147CT-ND	1.74	1.62	1.22	PCD2147TR-ND	373.00	ELL-CTV3R9N
4.7	±30	9.9	±20	5,200	PCD2148CT-ND	1.74	1.62	1.22	PCD2148TR-ND	373.00	ELL-CTV4R7N
5.6	±30	11	±20	4,900	PCD2149CT-ND	1.74	1.62	1.22	PCD2149TR-ND	373.00	ELL-CTV5R6N
6.8	±30	14	±20	4,500	PCD2150CT-ND	1.74	1.62	1.22	PCD2150TR-ND	373.00	ELL-CTV6R8N
8.2	±30	15	±20	4,400	PCD2151CT-ND	1.74	1.62	1.22	PCD2151TR-ND	373.00	ELL-CTV8R2N
10.0	±20	17	±20	3,900	PCD2152CT-ND	1.74	1.62	1.22	PCD2152TR-ND	373.00	ELL-CTV100M
12.0	±20	22	±20	3,700	PCD2153CT-ND	1.74	1.62	1.22	PCD2153TR-ND	373.00	ELL-CTV120M
15.0	±20	25	±20	3,100	PCD2154CT-ND	1.74	1.62	1.22	PCD2154TR-ND	373.00	ELL-CTV150M
18.0	±20	30	±20	3,000	PCD2155CT-ND	1.74	1.62	1.22	PCD2155TR-ND	373.00	ELL-CTV180M
22.0	±20	37	±20	2,700	PCD2156CT-ND	1.74	1.62	1.22	PCD2156TR-ND	373.00	ELL-CTV220M
27.0	±20	43	±20	2,300	PCD2157CT-ND	1.74	1.62	1.22	PCD2157TR-ND	373.00	ELL-CTV270M
33.0	±20	50	±20	2,200	PCD2158CT-ND	1.74	1.62	1.22	PCD2158TR-ND	373.00	ELL-CTV330M
39.0	±20	61	±20	2,100	PCD2159CT-ND	1.74	1.62	1.22	PCD2159TR-ND	373.00	ELL-CTV390M
47.0	±20	69	±20	1,900	PCD2160CT-ND	1.74	1.62	1.22	PCD2160TR-ND	373.00	ELL-CTV470M
56.0	±20	87	±20	1,600	PCD2161CT-ND	1.74	1.62	1.22	PCD2161TR-ND	373.00	ELL-CTV560M
68.0	±20	100	±20	1,500	PCD2162CT-ND	1.74	1.62	1.22	PCD2162TR-ND	373.00	ELL-CTV680M
82.0	±20	120	±20	1,400	PCD2163CT-ND	1.74	1.62	1.22	PCD2163TR-ND	373.00	ELL-CTV820M
100.0	±20	150	±20	1,200	PCD2164CT-ND	1.74	1.62	1.22	PCD2164TR-ND	373.00	ELL-CTV101M
120.0	±20	190	±20	1,100	PCD2165CT-ND	1.74	1.62	1.22	PCD2165TR-ND	373.00	ELL-CTV121M
150.0	±20	220	±20	1,000	PCD2166CT-ND	1.74	1.62	1.22	PCD2166TR-ND	373.00	ELL-CTV151M
180.0	±20	270	±20	930	PCD2167CT-ND	1.74	1.62	1.22	PCD2167TR-ND	373.00	ELL-CTV181M
220.0	±20	310	±20	840	PCD2168CT-ND	1.74	1.62	1.22	PCD2168TR-ND	373.00	ELL-CTV221M
270.0	±20	400	±20	810	PCD2169CT-ND	1.74	1.62	1.22	PCD2169TR-ND	373.00	ELL-CTV271M
330.0	±20	500	±20	660	PCD2170CT-ND	1.74	1.62	1.22	PCD2170TR-ND	373.00	ELL-CTV331M
390.0	±20	560	±20	630	PCD2171CT-ND	1.74	1.62	1.22	PCD2171TR-ND	373.00	ELL-CTV391M
470.0	±20	690	±20	580	PCD2172CT-ND	1.74	1.62	1.22	PCD2172TR-ND	373.00	ELL-CTV471M
560.0	±20	810	±20	540	PCD2173CT-ND	1.74	1.62	1.22	PCD2173TR-ND	373.00	ELL-CTV561M
680.0	±20	1,010	±20	470	PCD2174CT-ND	1.74	1.62	1.22	PCD2174TR-ND	373.00	ELL-CTV681M
820.0	±20	1,140	±20	440	PCD2175CT-ND	1.74	1.62	1.22	PCD2175TR-ND	373.00	ELL-CTV821M
1000.0	±20	1,500	±20	410	PCD2176CT-ND	1.74	1.62	1.22	PCD2176TR-ND	373.00	ELL-CTV102M

SMD Power Choke Coils

ETQP4L Type

Features: • Small size, space-saving (11.5mm x 10mm x 4 mm) • Capable of corresponding high current (15 ~ 21A) • Low loss (DCR: 0.7 ~ 1.6mΩ) • Capable of corresponding high frequency (to 1MHz) • Surface mount and lead-free type

Recommended Applications: • DC/DC converter for driving CPU at high speed such as server and router • Electric power supply for CPU peripherals of Notebook PC and Desktop PC

Dimensions in mm

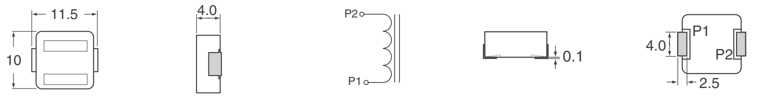

Inductance @20°C (Tolerance: ±20%)				DC Resistance (@20°C) RDC	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Panasonic
L1		L2†									
(µH)	Measurement Current	(µH)	Measurement Current	(mΩ) Max.	Part No.	1	50	100	Part No.	500	Part No.
.56 ±20%	15A	0.53	21A	1.6	PCD1638CT-ND	3.51	3.26	2.46	PCD1638TR-ND	751.00	ETQ-P4LR56WFC
.36 ±20%	17A	0.34	24A	1.1	PCD1637CT-ND	3.51	3.26	2.46	PCD1637TR-ND	751.00	ETQ-P4LR36WFC
.19 ±20%	21A	0.176	30A	0.7	PCD1636CT-ND	3.51	3.26	2.46	PCD1636TR-ND	751.00	ETQ-P4LR19WFC

† Reference Only

ETQP5L Type

Features: • Small size, space-saving (11.5mm x 10mm x 4mm) • Capable of corresponding high current (21 ~ 28A) • Low loss (DCR: 0.7 ~ 1.6mΩ) • Capable of corresponding high frequency (to 1MHz) • Low buzz noise due to gap-less structure

Recommended Applications: • DC/DC converter for driving CPU at high speed such as server and router • Desktop PC power supply modules

Dimensions in mm

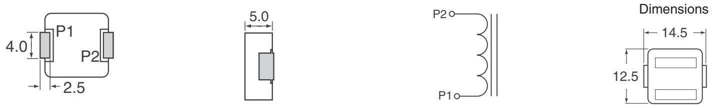

Inductance @20°C (Tolerance: ±20%)				DC Resistance (@20°C) DCR	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Panasonic
L1		L2†									
(µH)	Measurement Current	(µH)	Measurement Current	(mΩ) Max.	Part No.	1	50	100	Part No.	500	Part No.
0.50 ±20%	30A	0.46	42A	0.8±7%	PCD2021CT-ND	3.50	3.25	2.45	PCD2021TR-ND	750.00	ETQ-P5LR50XFA
0.60 ±20%	30A	0.54	42A	1.1±5%	PCD2022CT-ND	3.50	3.25	2.45	PCD2022TR-ND	750.00	ETQ-P5LR60XFA

† Reference Only

ETQP5M Type

Features:
- High heat resistance • Excellent DC bias characteristics • Low buzz noise • High reliability at high temperatures • High efficiency

Recommended Applications:
- Noise filter for various drive circuitry requiring high temperature operation and large peak current handling capability • DC/DC converter

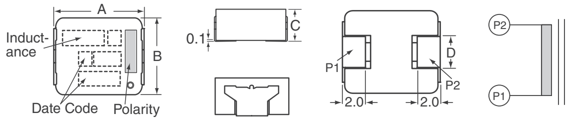

Type	Dimensions (mm) A	B	C	D
YFM	7.5	7.0	5.4	3.0
YFK	8.5	8.0	5.4	3.0
YFC	10.7	10.0	5.4	4.2
YGC	10.7	10.0	5.0	4.2

Inductance (100KHz)		Rated Current ΔT = 15K	Reference Current ΔT = 40K	DC Resistance		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Panasonic
L0 (µH)	Tolerance (%)	(A)	(A)	Typical (mΩ)	Tolerance (%)	Part No.	1	50	100	Part No.	500	Part No.
4.7	±20	2.8	4.5	20.4	±10	PCD2344CT-ND ***NEW!***	4.12	3.83	2.89	PCD2344TR-ND ***NEW!***	882.00	ETQ-P5M4R7YFM
48	±20	1.0	1.6	156	±10	PCD2319CT-ND	4.12	3.83	2.89	PCD2319TR-ND	882.00	ETQ-P5M470YFM
2.45	±20	4.5	7.5	7.6	±10	PCD2318CT-ND	4.67	4.34	3.27	PCD2318TR-ND	1000.00	ETQ-P5M2R5YFK
22	±20	1.6	2.6	63	±10	PCD2320CT-ND	4.67	4.34	3.27	PCD2320TR-ND	1000.00	ETQ-P5M220YFK
48	±20	1.1	1.8	125	±10	PCD2345CT-ND ***NEW!***	4.67	4.34	3.27	PCD2345TR-ND ***NEW!***	1000.00	ETQ-P5M470YFK
2.5	±20	6.0	10	5.3	±10	PCD2317CT-ND	5.45	5.06	3.82	PCD2317TR-ND	1167.00	ETQ-P5M2R5YFC
3.3	±20	5.1	8.6	7.1	±10	PCD2346CT-ND ***NEW!***	5.45	5.06	3.82	PCD2346TR-ND ***NEW!***	1167.00	ETQ-P5M3R3YFC
4.7	±20	4.4	7.2	10.2	±10	PCD2347CT-ND ***NEW!***	5.45	5.06	3.82	PCD2347TR-ND ***NEW!***	1167.00	ETQ-P5M4R7YFC
97	±20	1.0	1.6	208	±10	PCD2348CT-ND ***NEW!***	5.45	5.06	3.82	PCD2348TR-ND ***NEW!***	1167.00	ETQ-P5M101YGC

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® SMD Power Choke Coils

PCC-N6 Type — Thin, Compact and High Power

Features:

- High power type • Thin type (5.7mm height) • Low leakage flux

Recommended Applications:

- DC/DC converter for driving PC at high speed • Thin type on-board power supply module for exchanger (10 ~ 40W)

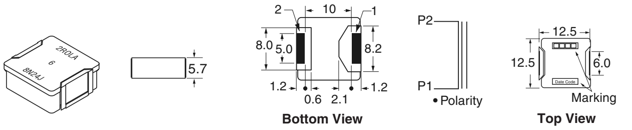

Series	Inductance		Saturation Current		Heat Rating Current ΔT=40°C I0 (A) Ref. Only	DC Resistance @20°C DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
	Initial @ 25°C (100 KHz) L0 (µH)	Flat Point @ 25°C (100 KHz) L1 (µH)	@ 25°C I sat (A) Min.	@ 100°C I sat (A) Min.				1	50	100			
HL	2.3 ±30%	1.2 ±30%	14.3	11.7	14.2	2.24	PCD1307CT-ND	2.70	2.51	1.89	PCD1307TR-ND	577.50	ETQ-P6F1R2HFA
	3.5 ±30%	2.0 ±30%	10.7	8.7	12.5	3.30	PCD1308CT-ND	2.70	2.51	1.89	PCD1308TR-ND	577.50	ETQ-P6F2R0HFA
	4.8 ±25%	3.2 ±25%	8.6	7.1	10.8	4.92	PCD1309CT-ND	2.70	2.51	1.89	PCD1309TR-ND	577.50	ETQ-P6F3R2HFA
	6.6 ±25%	4.6 ±25%	7.3	6.0	9.3	6.48	PCD1310CT-ND	2.70	2.51	1.89	PCD1310TR-ND	577.50	ETQ-P6F4R6HFA
	8.3 ±25%	6.4 ±25%	6.2	5.2	7.9	8.64	PCD1311CT-ND	2.70	2.51	1.89	PCD1311TR-ND	577.50	ETQ-P6F6R4HFA
	10.4 ±25%	8.2 ±25%	5.6	4.7	7.2	10.9	PCD1312CT-ND	2.70	2.51	1.89	PCD1312TR-ND	577.50	ETQ-P6F8R2HFA
	12.5 ±25%	10.2 ±25%	4.7	4.0	6.5	13.3	PCD1313CT-ND	2.70	2.51	1.89	PCD1313TR-ND	577.50	ETQ-P6F102HFA
SP	1.9 ±30%	1.0 ±30%	19.4	15.4	14.2	2.24	PCD1314CT-ND	2.70	2.51	1.89	PCD1314TR-ND	577.50	ETQ-P6F1R0SFA
	2.8 ±30%	1.6 ±30%	14.9	12.2	12.5	3.30	PCD1315CT-ND	2.70	2.51	1.89	PCD1315TR-ND	577.50	ETQ-P6F1R6SFA
	3.6 ±30%	2.5 ±30%	11.3	9.3	10.8	4.92	PCD1316CT-ND	2.70	2.51	1.89	PCD1316TR-ND	577.50	ETQ-P6F2R5SFA
	4.9 ±30%	3.5 ±30%	9.5	8.0	9.3	6.48	PCD1392CT-ND	2.70	2.51	1.89	PCD1392TR-ND	577.50	ETQ-P6F3R5SFA
LB	1.8 ±30%	0.8 ±30%	25.2	20.0	14.2	2.24	PCD1317CT-ND	2.70	2.51	1.89	PCD1317TR-ND	577.50	ETQ-P6F0R8LFA
	2.5 ±30%	1.3 ±30%	18.6	15.8	12.5	3.30	PCD1318CT-ND	2.70	2.51	1.89	PCD1318TR-ND	577.50	ETQ-P6F1R3LFA
	3.1 ±30%	2.0 ±30%	15.1	12.1	10.8	4.92	PCD1319CT-ND	2.70	2.51	1.89	PCD1319TR-ND	577.50	ETQ-P6F2R0LFA
	4.1 ±30%	2.9 ±30%	12.0	10.0	9.3	6.48	PCD1320CT-ND	2.70	2.51	1.89	PCD1320TR-ND	577.50	ETQ-P6F2R9LFA
	5.0 ±20%	4.1 ±20%	10.8	8.7	7.9	8.64	PCD1321CT-ND	2.70	2.51	1.89	PCD1321TR-ND	577.50	ETQ-P6F4R1LFA

N6B Type — High Rated Current, Low Profile and Low Loss

Applications:

- DC/DC converter for cpu in PC or video game machine
- Thin type on-board power supply for switchboards

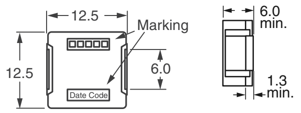

Inductance (@ 20°C) (Tolerance = ±20%)				DC Resistance @ 20°C DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
L1		L2									
(µH)	Measuring Current	(µH)	Measuring Current			1	50	100			
0.58	19A	0.54	27A	1.44	PCD1393CT-ND	2.70	2.51	1.89	PCD1393TR-ND	577.50	ETQ-P6F0R6BFA
1.06	16A	0.99	22A	2.24	PCD1394CT-ND	2.70	2.51	1.89	PCD1394TR-ND	577.50	ETQ-P6F1R1BFA
1.71	14A	1.50	20A	3.30	PCD1395CT-ND	2.70	2.51	1.89	PCD1395TR-ND	577.50	ETQ-P6F1R8BFA
2.45	12A	2.17	17A	4.92	PCD1396CT-ND	2.70	2.51	1.89	PCD1396TR-ND	577.50	ETQ-P6F2R5BFA
3.32	10A	2.96	14A	6.48	PCD1639CT-ND	2.70	2.51	1.89	PCD1639TR-ND	577.50	ETQ-P6F3R4BFA

PCC-NX1/NX2 Type — Small and Ultra Thin, High Current and Low Loss

Features: • High Power: 1 sat (<29A) • High Inductance: 0.7 ~ 2.5 µH • Low Resistance: .89 ~ 5.0mΩ • Small Mount Area: 13.0 ~ 12.9 • Height: ETQ-P3H: 3.9mm; ETQ-P2H: 4.9mm; ETQ-P1H: 6.0mm **Applications:** • PC High speed of CPU: Notebook PC

Series	Inductance (@ 20°C)				DC Resist. @ 20°C DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
	L1		L2*									
	(µH)	Meas. Current	(µH)	Meas. Current			1	50	100			
ETQ-P1H	0.60 ±25%	26A	0.45	36A	0.90	PCD1634CT-ND	4.18	3.89	2.93	PCD1634TR-ND	897.00	ETQ-P1H0R6BFA
	1.00 ±20%	19A	0.80	27A	1.56	PCD1635CT-ND	4.18	3.89	2.93	PCD1635TR-ND	897.00	ETQ-P1H1R0BFA
ETQ-P2H	0.33 ±20%	23A	0.30	32A	0.89	PCD1566CT-ND	3.96	3.68	2.78	PCD1566TR-ND	849.00	ETQ-P2H0R3BFK
	0.69 ±20%	21A	0.59	29A	1.30	PCD1567CT-ND	3.40	3.17	2.39	PCD1567TR-ND	729.50	ETQ-P2H0R7BFA
	1.22 ±20%	16A	1.04	22A	2.27	PCD1568CT-ND	3.40	3.17	2.39	PCD1568TR-ND	729.50	ETQ-P2H1R2BFA
	1.83 ±20%	14A	1.49	20A	3.48	PCD1569CT-ND	3.40	3.17	2.39	PCD1569TR-ND	729.50	ETQ-P2H1R8BFA
	2.61 ±20%	12A	2.12	17A	4.98	PCD1570CT-ND	3.40	3.17	2.39	PCD1570TR-ND	729.50	ETQ-P2H2R6BFA
ETQ-P3H	0.36 ±20%	23A	0.32	32A	1.04	PCD1640CT-ND	3.40	3.17	2.39	PCD1640TR-ND	729.50	ETQ-P3H0R4BFA
	0.80 ±20%	16A	0.71	22A	2.33	PCD1571CT-ND	3.40	3.17	2.39	PCD1571TR-ND	729.50	ETQ-P3H0R8BFA
	1.43 ±20%	12A	1.25	17A	4.52	PCD1572CT-ND	3.40	3.17	2.39	PCD1572TR-ND	729.50	ETQ-P3H1R4BFA

* Reference only

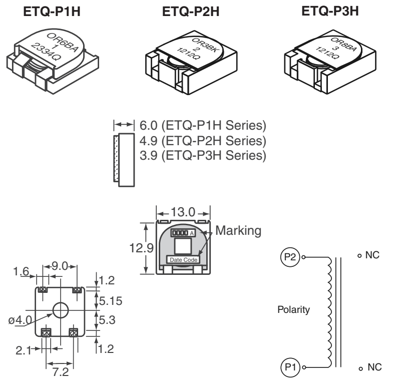

PCC-S1 Type — High Inductance and High Current

Features:

- High inductance • High current

Recommended Applications:

- DC/DC converter • Computer network • Telcom base station

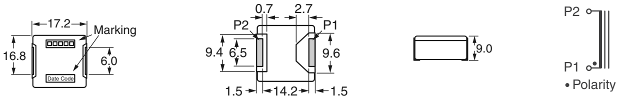

Series	Inductance		Saturation Current		Heat Rating Current ΔT=40°C I0 (A) Ref. Only	DC Resistance @ 20°C DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 250	Panasonic Part No.
	Initial @ 25°C (100KHz) L0 (µH)	At Flat Point @ 25°C (100KHz) L1 (µH)	@ 25°C I sat (A) Min.	@ 100°C I sat (A) Min.				1	50	100			
HL	2.9 ±30%	1.2 ±30%	21.4	18.0	22.6	1.00	PCD1331CT-ND	13.34	12.39	9.34	PCD1331TR-ND	1429.00	ETQ-PAF1R2HFA
	4.6 ±30%	2.7 ±30%	15.5	12.5	17.5	1.56	PCD1332CT-ND	13.34	12.39	9.34	PCD1332TR-ND	1429.00	ETQ-PAF2R7HFA
	6.8 ±30%	4.8 ±30%	10.6	9.0	14.4	2.29	PCD1333CT-ND	13.34	12.39	9.34	PCD1333TR-ND	1429.00	ETQ-PAF4R8HFA
	9.7 ±30%	7.2 ±30%	8.6	7.3	12.0	3.31	PCD1334CT-ND	13.34	12.39	9.34	PCD1334TR-ND	1429.00	ETQ-PAF7R2HFA
EX	1.9 ±30%	0.7 ±30%	50.4	42.3	22. 6	1.00	PCD1335CT-ND	13.34	12.39	9.34	PCD1335TR-ND	1429.00	ETQ-PAF0R7EFA
	2.9 ±30%	1.3 ±30%	36.7	30.0	17.5	1.56	PCD1336CT-ND	13.34	12.39	9.34	PCD1336TR-ND	1429.00	ETQ-PAF1R3EFA

Pulse® A TECHNITROL COMPANY

Wire-Wound RF Chip Inductors 0402, 0603, 0805

Digi-Reel® RoHS COMPLIANT

Specifications:

Wire-wound ceramic core construction

- **Operating Temperature:** -40°C ~ 125°C
- **Terminal Plating:** Gold (0402), Tin or Gold manufacturers' discretion (0603, 0805)

Note:

Inductance information is not stamped on part because of the small size.

Series	Suggested Pad Layout in Inches (mm) A	B	C
PE-0402CD	0.018 (0.46)	0.026 (0.66)	0.014 (0.36)
PE-0603CD	0.025 (0.64)	0.050 (1.27)	0.025 (0.64)
PE-0805CM	0.030 (0.76)	0.070 (1.78)	0.040 (1.02)

Series	Dimensions in Inches (mm) — Maximum L	W	H
PE-0402CD	0.047 (1.19)	0.026 (0.66)	0.024 (0.61)
PE-0603CD	0.071 (1.80)	0.049 (1.24)	0.049 (1.24)
PE-0805CM	0.090 (2.29)	0.066 (1.68)	0.057 (1.45)

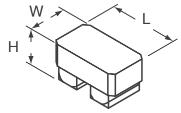

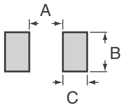

Inductance† ± 5% (nH)	IDC‡ Max. (mA)	Q§ Min.	Q Tested @ (MHz)	SRF▲ Min. (MHz)	RDC◊ Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Pulse Part No.
0402 Wire-Wound													
3.6	840	20	250	6000	0.066	553-1002-1-ND	.61	3.44	12.50	—	—	—	PE-0402CD3N6JTG
5.6	760	23	250	5800	0.083	553-1004-1-ND	.61	3.44	12.50	553-1004-2-ND	3,000	147.00/M	PE-0402CD5N6JTG
7.5	680	25	250	5800	0.104	553-1006-1-ND	.61	3.44	12.50	553-1006-2-ND	3,000	147.00/M	PE-0402CD7N5JTG
23	400	26	250	2720	0.214	553-1010-1-ND	.54	3.06	11.11	—	—	—	PE-0402CD230JTG
27	400	26	250	2480	0.298	553-1011-1-ND	.54	3.06	11.11	—	—	—	PE-0402CD270JTG
33	350	24	250	2350	0.35	553-1012-1-ND	.61	3.44	12.50	—	—	—	PE-0402CD330JTG
0603 Wire-Wound													
5.1	700	20	250	5700	0.108	553-1015-1-ND	.54	3.06	11.11	553-1015-2-ND	2,000	138.00/M	PE-0603CD5N1JTT
6.2	700	25	250	5800	0.11	553-1016-1-ND	.54	3.06	11.11	553-1016-2-ND	2,000	138.00/M	PE-0603CD6N2JTT
10	700	30	250	4800	0.13	553-1018-1-ND	.54	3.06	11.11	553-1018-2-ND	2,000	138.00/M	PE-0603CD100JTT
15	700	30	250	4000	0.17	553-1019-1-ND	.54	3.06	11.11	553-1019-2-ND	2,000	138.00/M	PE-0603CD150JTT
22	700	35	250	3000	0.19	553-1021-1-ND	.54	3.06	11.11	553-1021-2-ND	2,000	138.00/M	PE-0603CD220JTT
27	600	35	250	2800	0.22	553-1022-1-ND	.54	3.06	11.11	553-1022-2-ND	2,000	138.00/M	PE-0603CD270JTT
33	600	35	250	2300	0.22	553-1023-1-ND	.54	3.06	11.11	553-1023-2-ND	2,000	138.00/M	PE-0603CD330JTT
39	600	35	250	2200	0.25	553-1024-1-ND	.54	3.06	11.11	553-1024-2-ND	2,000	138.00/M	PE-0603CD390JTT
47	600	35	200	2000	0.28	553-1025-1-ND	.54	3.06	11.11	—	—	—	PE-0603CD470JTT
68	600	35	200	1700	0.34	553-1027-1-ND	.54	3.06	11.11	553-1027-2-ND	2,000	138.00/M	PE-0603CD680JTT
120	300	32	150	1300	0.65	553-1029-1-ND	.54	3.06	11.11	553-1029-2-ND	2,000	138.00/M	PE-0603CDR12JTT
220	200	25	100	900	1.9	553-1030-1-ND	.54	3.06	11.11	553-1030-2-ND	2,000	138.00/M	PE-0603CD221JTT
330	150	22	100	500	2.3	553-1031-1-ND	.54	3.06	11.11	553-1031-2-ND	2,000	138.00/M	PE-0603CD331JTT
390	130	20	100	350	2.9	553-1032-1-ND	.54	3.06	11.11	553-1032-2-ND	2,000	138.00/M	PE-0603CD391JTT
0805 Wire-Wound													
10	600	60	500	3900	0.10	553-1033-1-ND	.51	2.87	10.42	553-1033-2-ND	2,000	130.00/M	PE-0805CM100JTT
33	500	58	500	1800	0.18	553-1037-1-ND	.51	2.87	10.42	553-1037-2-ND	2,000	130.00/M	PE-0805CM330JTT
120	350	45	250	1100	0.56	553-1043-1-ND	.51	2.87	10.42	553-1043-2-ND	2,000	130.00/M	PE-0805CM121JTT
150	350	50	250	900	0.56	553-1044-1-ND	.51	2.87	10.42	553-1044-2-ND	2,000	130.00/M	PE-0805CM151JTT
330	300	40	100	775	1.28	553-1045-1-ND	.51	2.87	10.42	553-1045-2-ND	2,000	130.00/M	PE-0805CM331JTT
560	240	40	100	600	3.1	553-1047-1-ND	.51	2.87	10.42	553-1047-2-ND	2,000	130.00/M	PE-0805CM561JTT
680	240	32	50	550	3.5	553-1048-1-ND	.51	2.87	10.42	553-1048-2-ND	2,000	130.00/M	PE-0805CM681JTT
820	200	23	50	215	2.35	553-1049-1-ND	.51	2.87	10.42	553-1049-2-ND	2,000	130.00/M	PE-0805CM821JTT

† Inductance measured using a HP4286A RF Impedance Analyzer. ‡ Based on a 15°C maximum temperature rise. § Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture. ▲ SRF measured using a HP8753C Network Analyzer. ◊ R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

SMT Power Inductors Unshielded Drum Core P0751/2 Series

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Footprint:** 13.0mm X 9.4mm maximum
- **Current Rating:** Up to 6.8A
- **Inductance Range:** 1.0µH ~ 1000µH

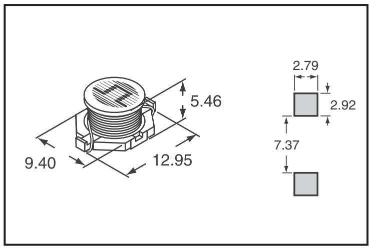

Inductance[1] @ IPK ADC (µH) ±20%	Irated[4] (A)	DCR Max. (mΩ)	Saturation[2] Current @ 25°C (A)	Heating[3] Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel* Qty.	Pricing	Pulse Part No.
3.3	5.4	18	6.4	5.4	553-1058-1-ND	1.24	.73	.55	800	304.00	P0751.332NLT
4.7	4.8	33	5.4	4.8	553-1059-1-ND	1.24	.73	.55	800	304.00	P0751.472NLT
6.8	4.4	44	4.6	4.4	553-1060-1-ND	1.24	.73	.55	800	304.00	P0751.682NLT
10	3.8	50	3.8	3.9	553-1061-1-ND	1.24	.73	.55	800	304.00	P0751.103NLT
15	3.0	55	3.0	3.1	553-1062-1-ND	1.24	.73	.55	800	304.00	P0751.153NLT
22	2.6	114	2.6	2.7	553-1063-1-ND	1.24	.73	.55	800	304.00	P0751.223NLT
33	2.0	120	2.0	2.1	553-1064-1-ND	1.24	.73	.55	800	304.00	P0751.333NLT
47	1.6	168	1.6	1.8	553-1065-1-ND	1.24	.73	.55	800	304.00	P0751.473NLT
68	1.4	240	1.4	1.5	553-1066-1-ND	1.24	.73	.55	800	304.00	P0751.683NLT
100	1.2	380	1.2	1.3	553-1067-1-ND	1.30	.76	.58	800	318.40	P0752.104NLT
150	1.0	570	1.0	1.0	553-1068-1-ND	1.30	.76	.58	800	318.40	P0752.154NLT
220	0.8	840	0.8	0.8	553-1069-1-ND	1.30	.76	.58	800	318.40	P0752.224NLT
330	0.6	1020	0.6	0.6	553-1070-1-ND	1.30	.76	.58	800	318.40	P0752.334NLT
470	0.5	1460	0.5	0.5	553-1071-1-ND	1.30	.76	.58	800	318.40	P0752.474NLT
680	0.4	2170	0.4	0.4	553-1072-1-ND	1.30	.76	.58	800	318.40	P0752.684NLT
1000	0.3	3300	0.3	0.3	553-1073-1-ND	1.30	.76	.58	800	318.40	P0752.105NLT

Notes: The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.

1. Inductance tested at 100kHz, 10 mVRMS.
2. Inductance drop = 10% typical at the Saturation Current.
3. ΔT = 15°C rise typical at the Heating Current.
4. The rated current is the lower of the saturation or heating current.

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT Power Inductor Shielded Drum Core P1167 Series

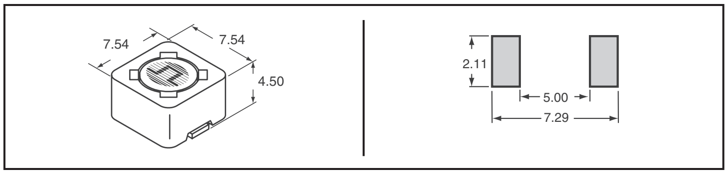

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Footprint:** 7.5mm x 7.5mm maximum
- **Current Rating:** Up to 3.5A
- **Inductance Range:** 1.8µH ~ 750µH

Inductance @ Rated Current (µH) Minimum	Rated Current IDC	DCR (mΩ) Typical	Maximum	Inductance @ 0 IDC (µH) ±20%	Saturation Current @ 25°C (A)	Heating Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 900	Pulse Part No.
1.8	3.5	13	16	2.7*	3.5	3.6	553-1074-1-ND	1.48	.92	.75	553-1074-2-ND	485.10	P1167.272NLT
2.3	3.1	15	20	3.6*	3.1	3.4	553-1075-1-ND	1.48	.92	.75	553-1075-2-ND	485.10	P1167.362NLT
3.5	2.5	27	33	5.4*	2.7	2.5	553-1077-1-ND	1.48	.92	.75	553-1077-2-ND	485.10	P1167.542NLT
4.1	2.4	30	35	6.3*	2.5	2.4	553-1078-1-ND	1.48	.92	.75	553-1078-2-ND	485.10	P1167.632NLT
7.5	2.0	42	50	10	2.1	2.0	553-1079-1-ND	1.48	.92	.75	553-1079-2-ND	485.10	P1167.103NLT
9.0	1.9	46	57	12	1.9	1.9	553-1080-1-ND	1.48	.92	.75	553-1080-2-ND	485.10	P1167.123NLT
11.3	1.7	53	66	15	1.7	1.8	553-1081-1-ND	1.48	.92	.75	553-1081-2-ND	485.10	P1167.153NLT
13.5	1.5	59	73	18	1.5	1.7	553-1082-1-ND	1.35	.84	.68	—	—	P1167.183NLT
16.5	1.4	87	105	22	1.4	1.4	553-1083-1-ND	1.48	.92	.75	553-1083-2-ND	485.10	P1167.223NLT
20.3	1.2	100	130	27	1.2	1.3	553-1084-1-ND	1.48	.92	.75	553-1084-2-ND	485.10	P1167.273NLT
24.8	1.1	139	170	33	1.1	1.1	553-1085-1-ND	1.48	.92	.75	553-1085-2-ND	485.10	P1167.333NLT
35.3	0.94	173	220	47	0.94	1.0	553-1087-1-ND	1.48	.92	.75	553-1087-2-ND	485.10	P1167.473NLT
42.0	0.86	225	270	56	0.86	0.86	553-1088-1-ND	1.48	.92	.75	553-1088-2-ND	485.10	P1167.563NLT
51.0	0.78	251	310	68	0.78	0.81	553-1089-1-ND	1.48	.92	.75	553-1089-2-ND	485.10	P1167.683NLT
61.5	0.70	282	350	82	0.70	0.77	553-1090-1-ND	1.48	.92	.75	553-1090-2-ND	485.10	P1167.823NLT
75.0	0.63	317	390	100	0.63	.072	553-1091-1-ND	1.48	.92	.75	553-1091-2-ND	485.10	P1167.104NLT
113	0.52	497	610	150	0.52	0.58	553-1093-1-ND	1.48	.92	.75	553-1093-2-ND	485.10	P1167.154NLT
165	0.43	745	930	220	0.43	0.47	553-1095-1-ND	1.48	.92	.75	553-1095-2-ND	485.10	P1167.224NLT
353	0.29	1688	2180	470	0.29	0.31	553-1099-1-ND	1.48	.92	.75	553-1099-2-ND	485.10	P1167.474NLT

* Inductance at 0 IDC tolerance on indicated part numbers is ±30%; tolerance is ±20% on all other parts.

NEW! Toroid Power Inductors — Bare Coil Series

Specifications: • **Current Range:** Up to 48A • **Frequency Range:** Up to 1MHz • **Operating Temperature:** -40°C ~ 130°C • **Electrical Specifications:** Measured at 25°C

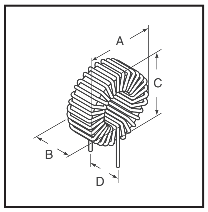

Inductance @ Rated Current (µH) Typical	Rated Current IDC	DCR Maximum (mΩ)	Inductance @ 0 ADC (µH) ±20%	Dimensions – Inches (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	Pulse Part No.
1.05	19.0	2.7	2.24	.604 (15.30)	.323 (8.20)	.556 (14.10)	.250 (6.40)	553-1507-ND	1.03	.60	.46	PA0489LNL
1.81	14.3	5.0	3.50	.610 (15.50)	.325 (8.30)	—	.300 (7.60)	553-1506-ND	.82	.48	.37	P1715LNL
3.22	20.5	5.5	7.80	.874 (22.20)	.374 (9.50)	—	.240 (6.10)	553-1503-ND	1.60	1.04	.85	PA0431LNL
5.00	20.5	7.5	12.10	.980 (24.90)	.440 (11.20)	.980 (24.90)	.310 (7.90)	553-1504-ND	1.68	1.04	.85	PA0432LNL

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Power Toroid Inductors - for National Simple Switcher™

Specifications: • Base Material meets flammability requirements of UL94V-0 • Operating Temperature: -40°C ~ 130°C

150kHz Inductors are tested and recommended by National Semiconductor for the LM259X series regulators.

260kHz Inductors are tested and recommended by National Semiconductor for the LM267X series regulators.

Fig. 1

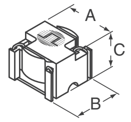

Fig. 2

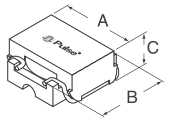

Fig. 3

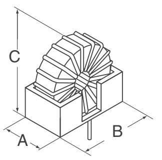

Package Type	Dimensions – Inches (mm)		
	A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)
HCI-68	.940 (23.87)	.940 (23.87)	.400 (10.16)

Package Type	Dimensions – Inches (mm)			
	A	B	C	Lead Space
Big Foot	1.00 (25.40)	1.22 (30.99)	0.50 (12.70)	—
KM-1.1	0.35 (8.89)	0.58 (14.74)	0.71 (18.17)	0.22 (5.60)
KM-2.0	0.45 (11.43)	0.65 (21.08)	0.70 (17.78)	0.30 (7.62)
KM-2.1	0.46 (11.69)	0.67 (17.02)	0.75 (19.05)	0.30 (7.62)
KM-3.0	0.45 (11.43)	0.83 (21.09)	0.95 (24.13)	0.30 (7.62)
KM-4.0	0.60 (15.24)	0.95 (24.13)	1.35 (34.29)	0.45 (11.44)

150kHz Inductors

Fig.	Package Type	Inductance Nominal (µH) ±20%	Rated Current (IDC)	ET_{OP} Maximum (V-µSec)*	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each 1	10	50	Pulse Part No.
1	LCI-20	178	0.16	16.5	2.8	LM259X-L2	553-1390-ND	3.03	1.97	1.61	PE-53802SNL
	LCI-20	39	0.34	6.6	0.8	LM259X-L6	553-1392-ND	2.40	1.56	1.28	PE-53806SNL
	LCI-30	374	0.2	75.9	2.7	LM259X-L8	553-1393-ND	1.81	1.18	.97	PE-53808SNL
	LCI-30	176	0.3	26.4	1.4	LM259X-L10	553-1394-ND	1.77	1.16	.95	PE-53810SNL
	LCI-30	118	0.38	19.8	1.2	LM259X-L11	553-1395-ND	1.77	1.16	.95	PE-53811SNL
	LCI-30	78	0.46	16.5	0.8	LM259X-L12	553-1396-ND	2.54	1.65	1.35	PE-53812SNL
	LCI-30	39	0.68	9.9	0.3	LM259X-L14	553-1398-ND	2.19	1.43	1.17	PE-53814SNL
	LCI-30	26	0.84	6.6	0.2	LM259X-L15	553-1399-ND	2.02	1.31	1.08	PE-53815SNL
	LCI-30	17	1.02	6.6	0.1	LM259X-L16	553-1400-ND	2.40	1.56	1.28	PE-53816SNL
	LCI-37	375	0.36	75.9	1.3	LM259X-L17	553-1401-ND	2.54	1.65	1.35	PE-53817SNL
	LCI-37	252	0.44	49.5	0.9	LM259X-L18	553-1438-ND	2.12	1.38	1.13	PE-53818SNL
	LCI-37	173	0.54	36.30	0.6	LM259X-L19	553-1402-ND	1.77	1.16	.95	PE-53819SNL
	LCI-37	115	0.67	29.7	0.4	LM259X-L20	553-1403-ND	3.13	2.04	1.67	PE-53820SNL
	LCI-37	78	0.82	23.1	0.3	LM259X-L21	553-1404-ND	2.40	1.56	1.28	PE-53821SNL
	LCI-37	54	1.0	16.5	0.2	LM259X-L22	553-1405-ND	2.40	1.56	1.28	PE-53822SNL
	LCI-37	38	1.2	13.2	0.1	LM259X-L23	553-1406-ND	2.40	1.56	1.28	PE-53823SNL
	LCI-37	26	1.48	9.9	0.1	LM259X-L24	553-1407-ND	2.19	1.43	1.17	PE-53824SNL
	LCI-37	18	1.81	9.9	0.06	LM259X-L25	553-1408-ND	2.40	1.56	1.28	PE-53825SNL
	LCI-44	377	0.68	75.9	1.0	LM259X-L26	553-1409-ND	2.40	1.56	1.28	PE-53826SNL
	LCI-44	248	0.83	72.6	0.6	LM259X-L27	553-1410-ND	2.40	1.56	1.28	PE-53827SNL
	LCI-44	168	1.02	56.1	0.4	LM259X-L28	553-1411-ND	2.40	1.56	1.28	PE-53828SNL
	LCI-44	112	1.26	42.9	0.3	LM259X-L29	553-1412-ND	2.37	1.54	1.26	PE-53829SNL
	LCI-44	77	1.54	33	0.2	LM259X-L30	553-1413-ND	2.19	1.43	1.17	PE-53830SNL
	LCI-44	53	1.87	26.4	0.13	LM259X-L31	553-1414-ND	2.19	1.43	1.17	PE-53831SNL
	LCI-44	37	2.24	19.8	0.1	LM259X-L32	553-1415-ND	2.40	1.56	1.28	PE-53932SNL
	LCI-44	24	2.74	16.5	0.07	LM259X-L33	553-1416-ND	2.40	1.56	1.28	PE-53933SNL
	LCI-44	17	3.0	13.2	0.05	LM259X-L34	553-1417-ND	2.19	1.43	1.17	PE-53934SNL
2	HCI-68	250	1.5	72.6	0.23	LM259X-L35	553-1418-ND	2.82	1.83	1.50	PE-53935SNL
	HCI-68	168	1.81	75.9	0.18	LM259X-L36	553-1419-ND	3.34	2.17	1.78	PE-54036SNL
	HCI-68	114	2.22	62.7	0.1	LM259X-L37	553-1420-ND	3.13	2.04	1.67	PE-54037SNL
	HCI-68	77	2.7	52.8	0.09	LM259X-L38	553-1421-ND	3.03	1.97	1.61	PE-54038SNL
	HCI-68	38	3.0	29.7	0.05	LM259X-L40	553-1423-ND	2.61	1.70	1.39	PE-54040SNL
1	LCI-50	25	3.0	19.8	0.04	LM259X-L41	553-1424-ND	2.09	1.36	1.11	PE-54041SNL
2	HCI-68	77	3.0	59.4	0.08	LM259X-L44	553-1425-ND	3.06	1.99	1.63	PE-54044SNL

***** ET_{OP} rated at 150kHz

260kHz Inductors

Fig.	Package Type	Inductance Nominal (µH) ±20%	Rated Current (IDC)	ET_{OP} Maximum (V-µSec)‡	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each 1	10	50	Pulse Part No.
						KlipMount™					
3	KM-3.0	22.8	4.9	23.3	.036	LM267X-L41	553-1117-ND	3.27	2.24	1.89	P0841NL
	KM-1.1	10.2	4.3	10	.026	LM267X-L45	553-1118-ND	1.92	1.19	.97	P0845NL
	KM-2.1	14.8	5.0	17	.023	LM267X-L46	553-1119-ND	2.09	1.36	1.11	P0846NL
	KM-2.0	10	5.0	13	.025	LM267X-L47	553-1120-ND	1.84	1.20	.98	P0847NL
	KM-4.0	50	5.0	40	.050	LM267X-L48	553-1121-ND	3.18	2.18	1.84	P0848NL
	KM-4.0	33	5.0	36	.047	LM267X-L49	553-1122-ND	3.33	2.28	1.92	P0849NL
	KM-3.0	23	5.0	24	.026	LM267X-L50	553-1123-ND	3.33	2.28	1.92	P0850NL
						Surface Mount					
2	HCI-68	22.8	4.9	23.3	.036	LM267X-L41	553-1124-ND	2.78	1.81	1.48	P0841SNL
1	LCI-44	10	4.3	10	.050	LM267X-L45	553-1125-5-ND	1.81	1.18	.97	P0845SNL
	LCI-50	15	5.0	17	.027	LM267X-L46	553-1126-5-ND	1.95	1.27	1.04	P0846SNL
	LCI-50	11	5.0	13	.025	LM267X-L47	553-1127-5-ND	2.26	1.47	1.21	P0847SNL
2	Big Foot	52	5.0	40	.025	LM267X-L48	553-1128-ND	3.72	2.55	2.15	P0848SNL
	Big Foot	36	5.0	36	.019	LM267X-L49	553-1129-ND	3.84	2.63	2.22	P0849SNL
	Big Foot	24.7	5.0	24	.013	LM267X-L50	553-1130-ND	3.66	2.51	2.11	P0850SNL

‡ ET_{OP} rated at 260kHz. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

SMT Power Inductor Toroid SLIC Series

Specifications: • **Operating Temperature:** -40°C ~ 130°C • **Current Ratings:** up to 23.8 ADC • **Frequency Range:** up to 1MHz

Fig. 1

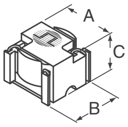

Package	Dimensions – Inch (mm) A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)

Fig. 2

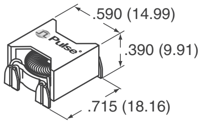

Fig. 3

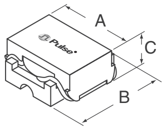

Package	Dimensions – Inch (mm) A	B	C†
HCI-44	.670 (17.02)	.670 (17.02)	.390 (9.91)
HCI-50	.740 (18.80)	.740 (18.80)	.390 (9.91)
HCI-68	.940 (23.88)	.940 (23.88)	.390 (9.91)

Fig.	Inductance @ Irated (µH)	Irated (A)	Inductance @ 0 ADC (µH)	DCR (mΩ)		Reference ET (Volt-µSec)	Package Type	Digi-Key Part No.	Price Each			Pulse Part No.
				Typical	Maximum				1	10	50	
Low Current Inductors - LCI Type												
1	1.01	3.4	1.1	9.35	11	0.53	LCI-20	553-1434-ND	1.51	.94	.76	PE-53630NL
	2.5	8.0	3.8	7.055	8.3	1.77	LCI-37	553-1383-ND	1.92	1.19	.97	PE-53661NL
	3.8	4.8	5.2	14.705	17.3	1.76	LCI-30	553-1436-ND†	1.31	.81	.66	PE-53650NL
	5.1	5.4	7.5	15.045	17.7	2.51	LCI-37	553-1380-ND	1.96	1.22	.99	PE-53651NL
	9.0	5.5	14	25.0	28	4.06	LCI-44	553-1381-ND	1.47	.91	.74	PE-53652NL
	9.3	7.2	16	15.895	18.7	4.90	LCI-50	553-1384-ND	1.74	1.13	.93	PE-53663NL
	9.4	2.8	12.3	36.89	43.4	2.70	LCI-30	553-1435-ND	1.51	.94	.76	PE-53631NL
	16.1	5.1	25.9	27.2	32	6.27	LCI-50	553-1382-ND	1.80	1.12	.91	PE-53653NL
	16.2	2.7	21.9	63.0	72	4.29	LCI-37	553-1377-ND	1.84	1.14	.93	PE-53632NL
	29.1	2.7	40.5	85.0	100	6.90	LCI-44	553-1378-ND	1.76	1.09	.89	PE-53633NL
	29.7	1.4	35.3	141.1	166	4.60	LCI-30	553-1371-ND	1.39	.86	.70	PE-53602NL
	50	2.6	72.9	113.05	133	10.5	LCI-50	553-1379-ND	1.96	1.22	.99	PE-53634NL
	58.1	1.3	73	246.5	290	7.83	LCI-37	553-1372-ND	1.74	1.13	.93	PE-53604NL
	114	0.94	167	365	405	10.0	LCI-30	553-1433-ND	1.59	.99	.81	PE-53606NL
	645	0.74	1134	1062.5	1250	36.5	LCI-44	553-1375-ND	2.00	1.24	1.01	PE-53613NL
	1070	0.71	1950	1445	1700	54.4	LCI-50	553-1376-ND	1.96	1.22	.99	PE-53614NL
Low Current Coupled Inductors - LCCI Type												
2	21.9	2.7	39.5	72.4	90.5	6.90	LCCI-44	553-1494-ND	2.30	1.50	1.22	PE-53718NL
High Current Inductors - HCI Type												
3	2.5	11.4	4.2	4.59	5.4	2.23	HCI-44	553-1386-ND	1.74	1.13	.93	PE-53681NL
	3.5	12.4	6.5	5.61	6.6	3.10	HCI-50	553-1437-ND†	2.02	1.31	1.08	PE-53692NL
	5.2	15.4	10.5	5.27	6.2	5.21	HCI-68	553-1389-ND†	2.40	1.56	1.28	PE-53700NL
	9.4	10.9	17.6	10.455	12.3	6.84	HCI-68	553-1387-ND	2.12	1.38	1.13	PE-53683NL

† Dimension "C" is .400" (10.16mm) for the marked models because of heavier wire gauge.

Note: Electrical Specification tested at 25°C. Reference values are for an inductor with a 55°C temperature rise.

Telecommunication Transformers T1/E1 and T3/E3

Transformers designed for digital and analog telecom applications supporting a wide variety of leading transceiver IC manufacturers.

Specifications: • **Standard Operating Temperature:** 0°C ~ 70°C • **Extended Temperature:** -40°C ~ 85°C • **Agency Approvals:** UL1459 / UL1950, EN60950 per BABT • **Isolation Voltage:** 1500Vrms

Fig. 1

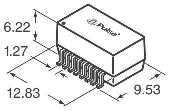

Fig. 2

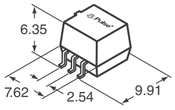

Schematic:

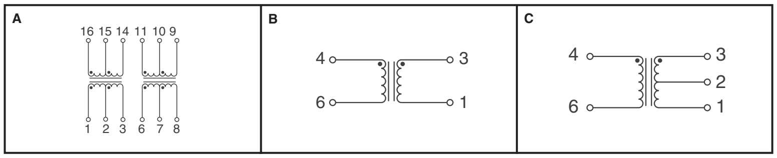

Fig.	Schematic	Temperature Rating	Turns Ratio B Primary : Secondary (±5%)	Primary Inductance (mH Minimum)	Primary Pins	Digi-Key Part No.	Price Each			Pulse Part No.
							1	10	50	
T1/E1 Dual Transmit and Receive Transformer										
1	A	Standard	1CT:1CT / 1CT:2CT	1.2	16-14, 6-8	553-1445-ND	3.72	2.55	2.15	PE-68678NL
	A	Standard	1CT:1.41CT / 1CT:1.41CT	1.0	16-14, 11-9	553-1446-ND	3.72	2.55	2.15	PE-68786NL
	A	Standard	1CT:2CT / 1CT:2CT	1.2	16-14, 6-8	553-1440-ND	3.72	2.55	2.15	PE-65861NL
	A	Standard	1CT:2.42CT / 1CT:2.42CT	1.2	1-3, 6-8	553-1450-ND	3.72	2.55	2.15	T1137NL
	A	Extended	1CT:1CT / 1CT:2CT	1.2	16-14, 6-8	553-1449-ND	3.72	2.55	2.15	T1094NL
	A	Extended	1CT:1CT / 1CT:2.4CT	1.0	9-11, 1-3	553-1451-ND	3.72	2.55	2.15	T1144NL
	A	Extended	1CT:2CT / 1CT:2CT	1.2	16-14, 6-8	553-1447-ND	3.72	2.55	2.15	T1090NL
T3/E3 Single Transmit and Receive Transformer										
2	B	Standard	1:1†	.040	4-6	553-1441-ND	4.83	3.31	2.79	PE-65967NL
	B	Extended	1:1†	.100	1-3	553-1452-ND	5.16	3.54	2.98	T3001NL
	C	Standard	1:2CT†	.019	4-6	553-1442-ND	4.83	3.31	2.79	PE-65968NL

† Primary : Secondary Tolerance is ±2%

Pulse®
A TECHNITROL COMPANY

LAN Discrete Modules

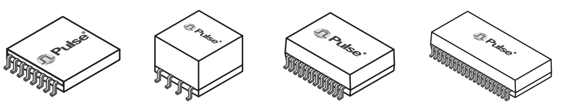

Pulse offers the most comprehensive line of discrete LAN magnetics modules available to the OEM worldwide. With technological advancements such as patented InterLock Base construction. Modules for 10/100/1000BASE-TX (Gigabit), 10/100BASE-TX, 10BASE-T, and ATM applications are optimized for all major LAN transceivers. All modules provide electrical circuit isolation that meets applicable IEEE and ANSI standards, while maintaining signal integrity needed for the most demanding applications. 10BASE-T modules have various levels of filtering for use with each referenced IC. 10/100BASE-TX and Gigabit modules provide "tuned" common mode noise attenuation best matched to the transceiver being considered.

Operating Temperature: 0°C ~ 70°C (unless otherwise noted)

No. of Ports	Turns Ratio	Configuration*	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Pulse Part No.
Gigabit Ethernet 10/100/1000BASE-T — RoHS Compliant									
1	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1430-ND	8.28	6.06	5.36	H5004NL
	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1343-ND§	9.22	6.75	5.97	HX5004NL
	1CT:1	T,C,S	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1334-ND	7.26	4.97	4.19	H5007NL
	1CT:1CT	T,C,S	24-PIN SMD	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1335-ND	9.67	7.08	6.26	H5008NL
	1CT:1CT	T,C	24-PIN SOIC	.650 x .380 x .082 (16.51 x 9.65 x 2.08)	553-1454-5-ND	7.30	5.34	4.72	H5120NL
	1CT:1	T,C,S	24-PIN SMD	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1344-ND§	10.05	7.36	6.50	HX5008NL
	1CT:1CT	T,C	24-PIN SOIC	.542 x .750 x .230 (13.77 x 19.05 x 5.84)	553-1462-5-ND§	9.22	6.75	5.97	HX5009NL
2	1CT:1CT	T,C,S	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1336-ND◊	13.69	10.48	9.28	H5012NL
	1CT:1CT	T,C	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1337-ND◊	11.86	9.08	8.04	H5014NL
	1CT:1CT	T,C	48-PIN BGA	.580 x .680 x .440 (14.73 x 17.27 x 11.18)	553-1455-ND	11.56	8.46	7.48	H5200NL
	1CT:1CT	C,T	48-PIN BGA	.580 x .680 x .440 (14.73 x 17.27 x 11.18)	553-1456-ND‡	11.56	8.46	7.48	H5201NL
	1CT:1CT	T,C	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1431-ND§◊	12.88	9.86	8.73	HX5014NL
	1CT:1CT	T,C	50-PIN SMD	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1338-ND◊	13.01	9.96	8.82	H5020NL
	1CT:1CT	T,C	50-PIN SMD	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1432-ND§◊	12.88	9.86	8.73	HX5020NL
4	1CT:1CT	T,C	96-PIN BGA	1.120 x .680 x .440 (28.45 x 17.27 x 11.18)	553-1457-ND	19.61	15.01	13.29	H5400NL
	1CT:1CT	C,T	96-PIN BGA	1.120 x .680 x .440 (28.45 x 17.27 x 11.18)	553-1458-ND‡	19.61	15.01	13.29	H5401NL
Gigabit POE (Power Over Ethernet) 10/100/1000BASE-T — RoHS Compliant									
1	1:1	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16.00 x 5.71)	553-1477-5-ND	5.88	4.03	3.39	H6062NL

No. of Ports	Turns Ratio	Configuration*		Package		Digi-Key Part No.	Price Each			Pulse Part No.
		TX	RX	Style**	L x W x H*** Inches (mm) - Maximum		1	10	50	
Fast Ethernet 10/100BASE-TX — RoHS Compliant										
1	1CT:1CT	T,C	C,T	16-PIN SOIC	.560 x .670 x .082 (14.22 x 17.02 x 2.08)	553-1314-ND	5.94	4.07	3.43	H0009NL
	1CT:1CT	T,C	C,T	16-PIN SOIC	.500 x .380 x .084 (12.7 x 9.65 x 2.13)	553-1315-ND	6.12	4.19	3.53	H0019NL
	1CT:1CT	T,C,S	C,T	12-PIN SOIC	.465 x .450 x .085 (11.81 x 11.43 x 2.16)	553-1316-ND	6.75	4.62	3.90	H0022NL
	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1317-ND	4.77	3.27	2.75	H1012NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .370 x .235 (12.7 x 9.4 x 5.97)	553-1323-ND	4.29	2.94	2.48	H1102NL
	1CT:1CT	T,C,S	C,T	12-PIN SMD	.583 x .580 x .192 (14.81 x 14.73 x 4.88)	553-1324-ND	4.44	3.04	2.56	H1112NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .236 (12.7 x 9.65 x 5.99)	553-1328-ND	3.72	2.55	2.15	H1260NL
	1CT:1CT	T,C,S	C,T	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16.00 x 5.71)	553-1429-ND	3.93	2.69	2.27	H1267NL
	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1339-ND§	6.44	4.71	4.17	HX1148NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1340-ND§	4.50	3.08	2.60	HX1188NL
	1CT:1CT	C,T	C,T	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1341-ND§	3.93	2.69	2.27	HX1198NL
2	1CT:1CT	T,C	C,T	24-PIN SMD	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1326-ND◊	6.57	4.81	4.25	H1174NL
	1CT:1CT	T,C	T,C	24-PIN SMD	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1329-ND◊	7.41	5.08	4.28	H1270NL
	1CT:1CT	T,C	C,T	24-PIN SOIC	.743 x .538 x .231 (18.87 x 13.67 x 5.87)	553-1460-5-ND	6.57	4.50	3.79	HX1294NL
4	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1325-ND‡	10.00	7.32	6.47	H1164NL
	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1342-ND§‡	10.66	7.80	6.90	HX1234NL
10BASE-T Filter Modules										
1	1CT:1CT	F,T,C	F,T,C	16-PIN SMT	.920 x .500 x .230 (23.37 x 12.7 x 5.84)	553-1223-ND	8.33	6.10	5.39	PE-68026
	1CT:1CT	F,T,C	F,T	16-PIN THT	1.005 x .405 x .338 (25.53 x 10.29 x 8.59)	553-1428-ND◆	8.36	6.12	5.41	FL1012NL
	1CT:1CT	F,T,C	F,TC	10-PIN SIL	.900 x .210 x .450 (22.86 x 5.33 x 11.43)	553-1444-ND◆	6.34	4.64	4.10	PE-68017SNL
VoIP (Voice over Internet Protocol) Transformer Modules — RoHS Compliant										
1	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .370 x .235 (12.7 x 9.4 x 5.97)	553-1333-ND	6.36	4.36	3.67	H2019NL
AUI Ethernet Transformer — RoHS Compliant										
—	1:1	—	—	16-PIN SOIC	.500 x .370 x .200 (12.7 x 9.4 x 5.08)	553-1439-ND	2.57	1.68	1.37	PE-65728NL

No. of Lines	Inductance (µF) Minimum	DC Resistance (Ω) Maximum	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Pulse Part No.
LAN Common Mode Chokes — RoHS Compliant									
4	68	0.20	8-PIN SOIC	.230 x .360 x .215 (5.84 x 9.14 x 5.46)	553-1427-ND	2.44	1.59	1.30	23Z104SMNL
	100	0.60	8-PIN SMT	.475 x .600 x .340 (12.06 x 15.24 x 8.64)	553-1443-ND	3.63	2.49	2.10	PE-67540NL

* F = Filter, T = Transformer, C = Chokes, S = Shunt Inductor

** SOIC = 50 mil pitch leads, SMT = 100 mil pitch leads (Surface Mount), THT = Through Hole, DIP = Dual In-Package (Through Hole), SIL = Single In-Line (Through Hole), SMD = Varying lead pitch (Surface Mount), BGA = Ball Grid Array

*** L x W x H = Width is measured on surface mount parts pin-tip to pin-tip (height includes wash area)

§ Suitable for industrial temperature applications, -40°C ~ 85°C

◊ .039" (0.99mm) pitch leads

‡ Each has a different pinout for optimization in layout with various IC Manufacturers

◆ *RoHS Compliant*

Transformers and Inductors

Fig. 1

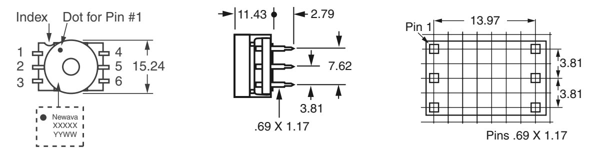

Fig. 2

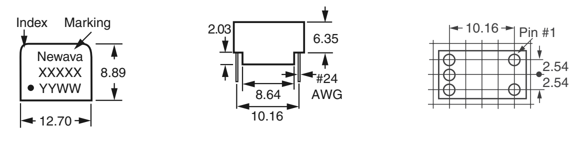

Fig. 3

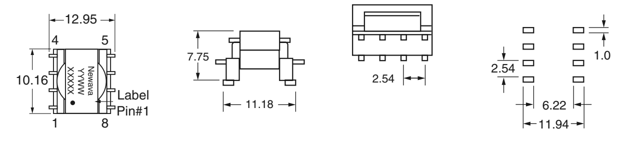

Fig. 4

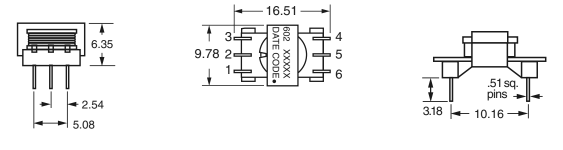

Fig. 5

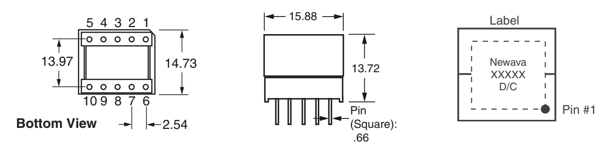

Fig. 6

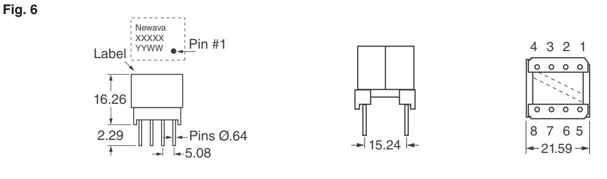

Fig. 7

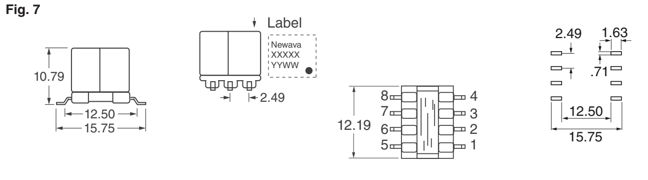

Fig. 8

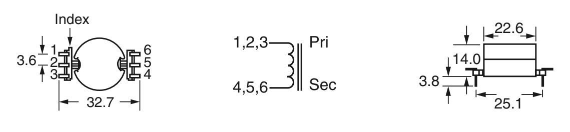

Fig.	Description (applications and notes)	Inductance	Schematic Information						Digi-Key Part No.	Price Each					Newava Part No.
			Primary			Secondary									
			Start	CTap	Finish	Start	CTap	Finish		1	10	50	100	500	
1	Transformer for Maxim 250/251; 5V to 5V @ 50mA	2.5mH	1	—	3	4	—	6	470-1001-ND◆	10.36	7.13	4.15	3.97	3.50	S22601
2	Transformer for Maxim 250/251; For RS232 Isolation	2mH	1	2	3	4	5	6	470-1002-ND◆	9.20	6.33	3.68	3.52	3.11	S22100
	Isolation for Digital Audio; Crystal CS8401/2/11/12	225µH	1	—	2	3	—	4	470-1003-ND	9.20	6.33	3.68	3.52	3.11	S22083
3	Digital Audio, SMD;Transformer	225µH	1	—	4	5	—	8	470-1000-ND◆	8.96	6.16	3.48	3.03	2.69	S37211
4	Isolation for Digital Audio: Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1004-ND◆	8.36	5.75	3.35	3.20	2.83	S22160
	Transformer for Maxim 250/251; RS232 Isolation	2mH	3	2	1	6	5	4	470-1005-ND◆	8.36	5.75	3.35	3.20	2.83	S22230
	Isolation for Digital Audio, Shielded, Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1006-ND◆	8.60	5.92	3.44	3.29	2.91	S22133
	Digital Audio, Shielded, 70-110 ohm, Crystal 8401, 8402, 8411 and 8412	225µH	1	—	3	4	—	6	470-1007-ND◆	8.60	5.92	3.44	3.29	2.91	S22523
5	Inductor, 3.6A	33µH	1-5	—	6-10	—	—	—	470-1009-ND◆	9.20	6.33	3.68	3.52	3.11	S34568
6	Inductor DCR 0.04 ohms, 3.7A	47µH	1-4	—	5-8	—	—	—	470-1011-ND	9.44	6.49	3.78	3.62	3.19	S34567
7	Inductor DCR 0.150 ohms SMD, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1013-ND	8.96	6.16	3.59	3.43	3.03	S34591
8	3A Inductor, Buck for LM257x	150µH	1	—	3	4	—	6	470-1008-ND◆	12.12	8.34	4.85	4.64	4.10	S34045

◆ ***RoHS Compliant***

EPCOS

Helically Wound Power Inductors

Features: • Very high rated current • Extremely low DC resistance • Very low profile and smallest possible footprint • Suitable for pick-and-place processes **Construction:** • Ferrite core • Magnetically shielded • Winding: Enamel copper flat wire • Self-leaded construction under body termination **General Technical Data:** • Operating Temperature: -40°C ~ 130°C

RoHS

Fig. 1

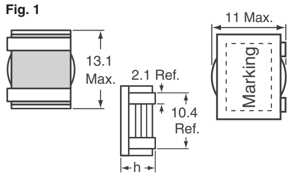

Fig. 2

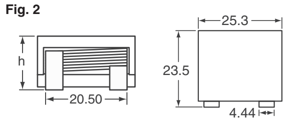

Fig.	Induc-tance (µH)	Toler-ance	Isat (A)	Rmax (mΩ)	Dim. h (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Epcos Part No.
							1	10	50		Qty.	Pricing	
1	0.50	±10%	30	1.1	4.95	495-1866-1-ND‡	3.38	3.07	2.77	495-1866-2-ND	750	1249.50	B82559A0501A013
	0.95	±10%	25	1.4	5.95	495-1867-1-ND‡	3.38	3.07	2.77	—	—	—	B82559A0951A013
	1.1	±10%	20	2.2	4.95	495-1860-1-ND‡	3.38	3.07	2.77	495-1860-2-ND	750	1249.50	B82559A0112A013
	1.4	±10%	22	1.8	5.95	495-1861-1-ND‡	3.38	3.07	2.77	495-1861-2-ND	500	833.00	B82559A0142A013
	2.2	±10%	15	4.2	4.95	495-1862-1-ND‡	3.38	3.07	2.77	495-1862-2-ND	750	1249.50	B82559A0222A013
	2.4	±10%	16.5	3.2	5.95	495-1863-1-ND‡	3.38	3.07	2.77	495-1863-2-ND	500	833.00	B82559A0242A013
	3.0	±10%	13	5.1	4.95	495-1864-1-ND‡	3.38	3.07	2.77	495-1864-2-ND	750	1249.50	B82559A0302A013
	3.9	±10%	12	6.0	5.95	495-1865-1-ND‡	3.38	3.07	2.77	495-1865-2-ND	500	833.00	B82559A0392A013
2	0.44	±7%	71	0.23	8.95	495-3452-ND†	6.28	4.49	4.04	—	—	—	B82559A1042A25
	1.25	±7%	50	0.46	10.75	495-3453-ND†	7.02	5.02	4.52	—	—	—	B82559A2122A25
	2.3	±7%	41	0.7	11.95	495-3454-ND†	7.95	5.68	5.11	—	—	—	B82559A3232A25
	2.9	±7%	33	1.15	10.75	495-3455-ND†	7.39	5.28	4.76	—	—	—	B82559A3292A25
	4.35	±7%	30	1.5	10.75	495-3456-ND†	8.50	6.08	5.47	—	—	—	B82559A4432A25
	6.1	±7%	28	1.75	11.95	495-3457-ND†	10.35	7.40	6.66	—	—	—	B82559A5612A25
	7.9	±7%	26	2.15	12.85	495-3458-ND†	11.46	8.19	7.37	—	—	—	B82559A6792A25
	10	±7%	24	2.5	12.85	495-3459-ND†	11.46	8.19	7.37	—	—	—	B82559A7103A25

† Bulk

‡ **495-1686-ND Power Inductor Kit** (2 each of part numbers denoted, 16 total pieces) **$61.50**

Surface Mount Inductors

Features:
B82422A Series: • Very wide temperature range (up to 145°C) • High Q factor • High resonance frequency **B82422H Series:** • Very high current handling capability • Suitable for reflow soldering • Qualified to AEC-Q200 **B82422T Series:** • High Q factor • High resonance frequency • High inductance value **B82432C/T Series:** • High current handling capability • Suitable for reflow (IR and vapor phase) and wave soldering **B82442A Series:** • High current handling capability • High inductance rating • Suitable for reflow (IR and vapor phase) and wave soldering **B82442H Series:** • Very high current handling capability • High inductance value • Suitable for reflow (IR and vapor phase) and wave soldering **B82496C Series:** • High resonance frequency • Free of polarization effect • Close inductance tolerance • High mechanical stability **B82498F Series:** • High resonance frequency • Suitable for reflow (IR and vapor phase) and wave soldering **B82462A4/G2/G4 Series:** • Wide temperature range • High rated current • Low DC resistance **B82464A/G/Z Series:** • Wide temperature range • Very high rated current • Low DC resistance • Suitable for reflow soldering **B82470A Series:** • Low profile • High rated current • Low DC resistance **B82476A Series:** • Very high rated current • Low DC resistance • Suitable for reflow soldering **B82477G2/G4 Series:** • Wide temperature range • Very high rated current • Low DC resistance **B82479A1 Series:** • Very high rated current • Low DC resistance • Suitable for reflow soldering

Inductance (µH)	Inductance Tolerance	Qmin.	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
Fig. 1 — B82422A Series — 1210												
0.0082	±10%	20	0.08	0.8	495-1721-1-ND	.55	4.94	21.96	495-1721-2-ND	2,000	130.00/M	B82422A3829K100
0.012	±10%	25	0.10	0.7	495-1966-1-ND	.34	3.09	13.72	—	—	—	B82422A3120K100
0.015	±10%	27	0.12	0.64	495-1709-1-ND‡	.55	4.94	21.96	495-1709-2-ND	2,000	192.00/M	B82422A3150K100
0.022	±10%	30	0.14	0.6	495-1713-1-ND‡	.55	4.94	21.96	495-1713-2-ND	2,000	192.00/M	B82422A3220K100
0.033	±10%	20	0.17	0.54	495-1715-1-ND‡	.55	4.94	21.96	495-1715-2-ND	2,000	192.00/M	B82422A3330K100
0.047	±10%	26	0.19	0.51	495-1717-1-ND‡	.55	4.94	21.96	495-1717-2-ND	2,000	192.00/M	B82422A3470K100
0.1	±10%	25	0.26	0.44	495-1708-1-ND‡	.55	4.94	21.96	495-1708-2-ND	2,000	192.00/M	B82422A3101K100
0.12	±10%	22	0.32	0.4	495-1967-1-ND	.55	4.94	21.96	495-1967-2-ND	2,000	192.00/M	B82422A3121K100
0.15	±10%	25	0.33	0.39	495-1710-1-ND‡	.55	4.94	21.96	495-1710-2-ND	2,000	192.00/M	B82422A3151K100
0.22	±10%	25	0.64	0.28	495-1714-1-ND‡	.55	4.94	21.96	495-1714-2-ND	2,000	192.00/M	B82422A3221K100
0.27	±10%	20	0.90	0.235	495-1968-1-ND	.55	4.94	21.96	495-1968-2-ND	2,000	192.00/M	B82422A3271K100
0.33	±10%	22	1.3	0.2	495-1716-1-ND‡	.55	4.94	21.96	495-1716-2-ND	2,000	192.00/M	B82422A3331K100
0.39	±10%	22	1.4	0.19	495-1970-1-ND	.55	4.94	21.96	495-1970-2-ND	2,000	192.00/M	B82422A3391K100
0.47	±10%	22	2.2	0.15	495-1718-1-ND‡	.55	4.94	21.96	495-1718-2-ND	2,000	192.00/M	B82422A3471K100
0.68	±10%	22	2.4	0.145	495-1972-1-ND‡	.55	4.94	21.96	495-1972-2-ND	2,000	192.00/M	B82422A3681K100
0.82	±10%	22	2.5	0.14	495-1720-1-ND	.55	4.94	21.96	495-1720-2-ND	2,000	130.00/M	B82422A3821K100
1.0	±10%	20	0.34	0.38	495-1694-1-ND‡	.55	4.94	21.96	495-1694-2-ND	2,000	192.00/M	B82422A1102K100
1.5	±10%	20	0.50	0.34	495-1697-1-ND‡	.55	4.94	21.96	495-1697-2-ND	2,000	192.00/M	B82422A1152K100
1.8	±10%	25	0.60	0.29	495-1963-1-ND	.55	4.94	21.96	495-1963-2-ND	2,000	192.00/M	B82422A1182K100
2.2	±10%	25	0.75	0.27	495-1699-1-ND‡	.55	4.94	21.96	495-1699-2-ND	2,000	192.00/M	B82422A1222K100
3.3	±10%	27	1.2	0.2	495-1701-1-ND‡	.55	4.94	21.96	495-1701-2-ND	2,000	192.00/M	B82422A1332K100
4.7	±10%	27	2.2	0.15	495-1703-1-ND‡	.55	4.94	21.96	495-1703-2-ND	2,000	192.00/M	B82422A1472K100
6.8	±10%	27	2.8	0.135	495-1705-1-ND‡	.55	4.94	21.96	495-1705-2-ND	2,000	192.00/M	B82422A1682K100
8.2	±10%	27	3.0	0.13	495-1965-1-ND	.55	4.94	21.96	495-1965-2-ND	2,000	192.00/M	B82422A1822K100
10	±10%	27	1.6	0.18	495-1695-1-ND‡	.55	4.94	21.96	495-1695-2-ND	2,000	192.00/M	B82422A1103K100
12	±10%	27	1.65	0.175	495-1962-1-ND	.55	4.94	21.96	495-1962-2-ND	2,000	192.00/M	B82422A1123K100
15	±10%	27	1.85	0.165	495-1698-1-ND‡	.55	4.94	21.96	495-1698-2-ND	2,000	192.00/M	B82422A1153K100
22	±10%	27	2.65	0.14	495-1700-1-ND‡	.55	4.94	21.96	495-1700-2-ND	2,000	192.00/M	B82422A1223K100
33	±10%	27	4.5	0.105	495-1702-1-ND‡	.55	4.94	21.96	495-1702-2-ND	2,000	192.00/M	B82422A1333K100
47	±10%	27	7.0	0.085	495-1704-1-ND‡	.55	4.94	21.96	495-1704-2-ND	2,000	192.00/M	B82422A1473K100
100	±10%	27	11.5	0.065	495-1696-1-ND‡	.55	4.94	21.96	495-1696-2-ND	2,000	192.00/M	B82422A1104K100
Fig. 2 — B82422H Series — 1210												
1.0	±10%	8	0.10	1.15	495-2637-1-ND	.73	6.53	29.02	495-2637-2-ND	2,000	254.00/M	B82422H1102K
2.2	±10%	8	0.16	0.8	495-2643-1-ND	.73	6.53	29.02	495-2643-2-ND	2,000	254.00/M	B82422H1222K
3.3	±10%	8	0.18	0.77	495-2646-1-ND	.73	6.53	29.02	495-2646-2-ND	2,000	254.00/M	B82422H1332K
4.7	±10%	8	0.25	0.7	495-2649-1-ND	.73	6.53	29.02	495-2649-2-ND	2,000	254.00/M	B82422H1472K
6.8	±10%	8	0.35	0.57	495-2652-1-ND	.73	6.53	29.02	495-2652-2-ND	2,000	254.00/M	B82422H1682K
10	±10%	12	0.46	0.5	495-2638-1-ND	.73	6.53	29.02	495-2638-2-ND	2,000	254.00/M	B82422H1103K
22	±10%	12	1.0	0.33	495-2644-1-ND	.73	6.53	29.02	495-2644-2-ND	2,000	254.00/M	B82422H1223K
47	±10%	15	2.1	0.23	495-2650-1-ND	.73	6.53	29.02	495-2650-2-ND	2,000	254.00/M	B82422H1473K
100	±10%	20	4.8	0.15	495-2639-1-ND	.73	6.53	29.02	495-2639-2-ND	2,000	254.00/M	B82422H1104K
220	±10%	20	10.9	0.1	495-2645-1-ND	.73	6.53	29.02	495-2645-2-ND	2,000	254.00/M	B82422H1224K
330	±10%	20	13	0.09	495-2648-1-ND	.73	6.53	29.02	495-2648-2-ND	2,000	254.00/M	B82422H1334K
470	±10%	20	20	0.076	495-2651-1-ND	.73	6.53	29.02	495-2651-2-ND	2,000	254.00/M	B82422H1474K
680	±10%	20	31	0.061	495-2654-1-ND	.73	6.53	29.02	495-2654-2-ND	2,000	254.00/M	B82422H1684K
Fig. 3 — B82422T Series — 1210												
1.0	±10%	30	0.6	0.4	495-1729-1-ND	.47	4.23	18.80	495-1729-2-ND	2,000	165.00/M	B82422T1102K
10	±10%	27	2.1	0.15	495-1730-1-ND	.47	4.23	18.80	495-1730-2-ND	2,000	165.00/M	B82422T1103K
15	±10%	27	2.8	0.13	495-2655-1-ND	.29	2.64	11.74	—	—	—	B82422T1153K
Fig. 4 — B82432C Series — 1812												
1.0	±10%	40	0.28	0.6	495-1743-1-ND	1.02	9.15	40.68	495-1743-2-ND	2,500	356.00/M	B82432C1102K
22	±10%	30	1.45	0.26	495-1748-1-ND	1.02	9.15	40.68	495-1748-2-ND	2,500	356.00/M	B82432C1223K
100	±10%	30	4.7	0.145	495-1745-1-ND	1.02	9.15	40.68	495-1745-2-ND	2,500	356.00/M	B82432C1104K
Fig. 4 — B82432T Series — 1812												
1.0	±10%	10	0.08	1.3	495-1753-1-ND†	.97	8.69	38.64	495-1753-2-ND	2,500	338.00/M	B82432T1102K
1.5	±10%	10	0.11	1.15	495-1975-1-ND†	.97	8.69	38.64	495-1975-2-ND	2,500	338.00/M	B82432T1152K
1.8	±10%	10	0.13	1.05	495-1978-1-ND†	.97	8.69	38.64	495-1978-2-ND	2,500	338.00/M	B82432T1182K
2.2	±10%	10	0.15	1.0	495-1757-1-ND†	.97	8.69	38.64	495-1757-2-ND	2,500	338.00/M	B82432T1222K
3.3	±10%	10	0.19	0.9	495-1760-1-ND†	.97	8.69	38.64	495-1760-2-ND	2,500	338.00/M	B82432T1332K
3.9	±10%	10	0.20	0.85	495-1980-1-ND†	.97	8.69	38.64	495-1980-2-ND	2,500	338.00/M	B82432T1392K
4.7	±10%	10	0.22	0.8	495-1763-1-ND†	.97	8.69	38.64	495-1763-2-ND	2,500	338.00/M	B82432T1472K
6.8	±10%	10	0.30	0.7	495-1766-1-ND†	.97	8.69	38.64	495-1766-2-ND	2,500	338.00/M	B82432T1682K
8.2	±10%	10	0.33	0.67	495-1983-1-ND†	.97	8.69	38.64	495-1983-2-ND	2,500	338.00/M	B82432T1822K
10	±10%	10	0.35	0.65	495-1754-1-ND†	.97	8.69	38.64	495-1754-2-ND	2,500	338.00/M	B82432T1103K
15	±10%	10	0.50	0.6	495-1976-1-ND†	.97	8.69	38.64	495-1976-2-ND	2,500	338.00/M	B82432T1153K
22	±10%	10	0.70	0.45	495-1758-1-ND†	.97	8.69	38.64	495-1758-2-ND	2,500	338.00/M	B82432T1223K
33	±10%	10	1.2	0.4	495-1761-1-ND†	.97	8.69	38.64	495-1761-2-ND	2,500	338.00/M	B82432T1333K
39	±10%	10	1.3	0.38	495-1981-1-ND†	.97	8.69	38.64	495-1981-2-ND	2,500	338.00/M	B82432T1393K
47	±10%	10	1.35	0.35	495-1764-1-ND†	.97	8.69	38.64	495-1764-2-ND	2,500	338.00/M	B82432T1473K
56	±10%	10	2.0	0.3	495-1982-1-ND	.97	8.69	38.64	495-1982-2-ND	2,500	338.00/M	B82432T1563K
68	±10%	10	2.5	0.25	495-1767-1-ND†	.97	8.69	38.64	495-1767-2-ND	2,500	338.00/M	B82432T1683K
100	±10%	20	3.5	0.2	495-1755-1-ND†	.97	8.69	38.64	495-1755-2-ND	2,500	338.00/M	B82432T1104K
150	±10%	20	6.0	0.16	495-1977-1-ND†	.97	8.69	38.64	495-1977-2-ND	2,500	338.00/M	B82432T1154K
220	±10%	20	7.5	0.13	495-1759-1-ND†	.97	8.69	38.64	495-1759-2-ND	2,500	338.00/M	B82432T1224K
270	±10%	20	10.5	0.12	495-1979-1-ND	.97	8.69	38.64	495-1979-2-ND	2,500	338.00/M	B82432T1274K
330	±10%	20	11.0	0.12	495-1762-1-ND†	.97	8.69	38.64	495-1762-2-ND	2,500	338.00/M	B82432T1334K

Fig. 1

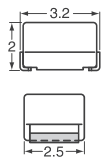

Fig. 2

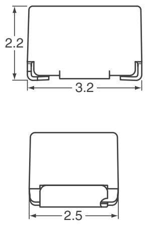

Fig. 3

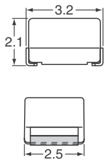

Fig. 4

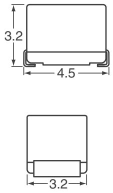

Fig. 5

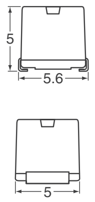

Fig. 6

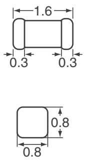

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Inductance (µH)	Inductance Tolerance	Qmin.	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
470	±10%	20	15	0.1	495-1765-1-ND†	.97	8.69	38.64	495-1765-2-ND	2,500	338.00/M	B82432T1474K
680	±10%	20	23	0.08	495-1768-1-ND†	.97	8.69	38.64	495-1768-2-ND	2,500	338.00/M	B82432T1684K
820	±10%	20	27	0.08	495-1984-1-ND	.97	8.69	38.64	495-1984-2-ND	2,500	338.00/M	B82432T1824K
1000	±10%	20	30	0.07	495-1756-1-ND†	.97	8.69	38.64	495-1756-2-ND	2,500	338.00/M	B82432T1105K
Fig. 5 — B82442A Series — 2220												
1.0	±10%	10	0.024	1.8	495-1769-1-ND§	1.23	11.05	49.10	495-1769-2-ND	1,500	430.00/M	B82442A1102K
2.2	±10%	10	0.048	1.3	495-1774-1-ND	1.28	11.55	51.34	495-1774-2-ND	1,500	449.00/M	B82442A1222K
4.7	±10%	10	0.088	0.95	495-1778-1-ND§	1.28	11.55	51.34	495-1778-2-ND	1,500	449.00/M	B82442A1472K
10	±10%	10	0.168	0.69	495-1770-1-ND§	1.23	11.05	49.10	495-1770-2-ND	1,500	430.00/M	B82442A1103K
22	±10%	10	0.35	0.48	495-1775-1-ND	1.28	11.55	51.34	495-1775-2-ND	1,500	449.00/M	B82442A1223K
47	±10%	10	0.68	0.34	495-1779-1-ND§	1.28	11.55	51.34	495-1779-2-ND	1,500	449.00/M	B82442A1473K
100	±10%	20	1.28	0.25	495-1771-1-ND§	1.23	11.05	49.10	495-1771-2-ND	1,500	430.00/M	B82442A1104K
220	±10%	20	2.72	0.17	495-1776-1-ND	1.28	11.55	51.34	—	—	—	B82442A1224K
470	±10%	20	5.6	0.12	495-1780-1-ND§	1.28	11.55	51.34	495-1780-2-ND	1,500	449.00/M	B82442A1474K
1000	±10%	30	12	0.085	495-1772-1-ND§	1.23	11.05	49.10	495-1772-2-ND	1,500	430.00/M	B82442A1105K
2200	±10%	30	28	0.055	495-1777-1-ND	1.28	11.55	51.34	495-1777-2-ND	1,500	449.00/M	B82442A1225K
4700	±10%	30	62.4	0.036	495-1781-1-ND§	1.28	11.55	51.34	495-1781-2-ND	1,500	449.00/M	B82442A1475K
10000	±10%	30	120	0.025	495-1773-1-ND§	1.23	11.05	49.10	495-1773-2-ND	1,500	430.00/M	B82442A1106K
Fig. 5 — B82442H Series — 2220												
1.0	±10%	10	0.024	2.5	495-1782-1-ND	1.64	14.76	65.58	495-1782-2-ND	1,500	574.00/M	B82442H1102K
2.2	±10%	10	0.048	1.8	495-1787-1-ND	1.64	14.76	65.58	495-1787-2-ND	1,500	574.00/M	B82442H1222K
4.7	±10%	10	0.088	1.35	495-1791-1-ND	1.64	14.76	65.58	495-1791-2-ND	1,500	574.00/M	B82442H1472K
10	±10%	10	0.168	1.0	495-1783-1-ND	1.64	14.76	65.58	495-1783-2-ND	1,500	574.00/M	B82442H1103K
22	±10%	10	0.35	0.67	495-1788-1-ND	1.64	14.76	65.58	495-1788-2-ND	1,500	574.00/M	B82442H1223K
47	±10%	10	0.68	0.48	495-1792-1-ND	1.64	14.76	65.58	495-1792-2-ND	1,500	574.00/M	B82442H1473K
100	±10%	20	1.28	0.35	495-1784-1-ND	1.64	14.76	65.58	495-1784-2-ND	1,500	574.00/M	B82442H1104K
220	±10%	20	2.72	0.24	495-1789-1-ND	1.64	14.76	65.58	495-1789-2-ND	1,500	574.00/M	B82442H1224K
330	±10%	20	3.92	0.2	495-3438-1-ND§	1.64	14.76	65.58	495-3438-2-ND	1,500	574.00/M	B82442H1334K
470	±10%	20	5.6	0.17	495-1793-1-ND	1.64	14.76	65.58	495-1793-2-ND	1,500	574.00/M	B82442H1474K
1000	±10%	30	12	0.12	495-1785-1-ND§	1.64	14.76	65.58	495-1785-2-ND	1,500	574.00/M	B82442H1105K
2200	±10%	30	28	0.075	495-1790-1-ND	1.64	14.76	65.58	495-1790-2-ND	1,500	574.00/M	B82442H1225K
4700	±10%	30	62.4	0.05	495-1794-1-ND	1.64	14.76	65.58	495-1794-2-ND	1,500	574.00/M	B82442H1475K
10000	±10%	30	120	0.035	495-1786-1-ND	1.64	14.76	65.58	495-1786-2-ND	1,500	574.00/M	B82442H1106K
Fig. 6 — B82496C Series — 0603												
0.001	±0.3nH	7	0.02	1.8	495-1826-1-ND	.39	3.52	15.64	495-1826-2-ND	4,000	137.00/M	B82496C3109A
0.0015	±0.3nH	8	0.03	1.5	495-1832-1-ND▲	.39	3.52	15.64	495-1832-2-ND	4,000	137.00/M	B82496C3159A
0.0018	±0.3nH	12	0.033	1.5	495-2028-1-ND▲	.39	3.52	15.64	495-2028-2-ND	4,000	137.00/M	B82496C3189A
0.0022	±0.3nH	14	0.035	1.5	495-1835-1-ND▲	.39	3.52	15.64	495-1835-2-ND	4,000	137.00/M	B82496C3229A
0.0027	±0.3nH	14	0.04	1.4	495-2030-1-ND▲	.39	3.52	15.64	495-2030-2-ND	4,000	137.00/M	B82496C3279A
0.0033	±0.3nH	14	0.06	1.2	495-1837-1-ND▲	.39	3.52	15.64	495-1837-2-ND	4,000	137.00/M	B82496C3339A
0.0039	±5%	14	0.065	1.1	495-2032-1-ND▲	.41	3.72	16.52	495-2032-2-ND	4,000	145.00/M	B82496C3399J
0.0047	±5%	14	0.10	0.8	495-1839-1-ND▲	.41	3.72	16.52	495-1839-2-ND	4,000	145.00/M	B82496C3479J
0.0056	±5%	14	0.15	0.7	495-2034-1-ND▲	.41	3.72	16.52	495-2034-2-ND	4,000	145.00/M	B82496C3569J
0.0068	±5%	14	0.15	0.7	495-1841-1-ND▲	.41	3.72	16.52	495-1841-2-ND	4,000	145.00/M	B82496C3689J
0.0082	±5%	14	0.18	0.65	495-1843-1-ND▲	.41	3.72	16.52	495-1843-2-ND	4,000	145.00/M	B82496C3829J
0.01	±5%	14	0.20	0.60	495-1824-1-ND▲	.41	3.72	16.52	495-1824-2-ND	4,000	145.00/M	B82496C3100J
0.012	±5%	14	0.35	0.45	495-1827-1-ND▲	.41	3.72	16.52	495-1827-2-ND	4,000	145.00/M	B82496C3120J
0.015	±5%	14	0.40	0.42	495-1830-1-ND▲	.41	3.72	16.52	495-1830-2-ND	4,000	145.00/M	B82496C3150J
0.018	±5%	14	0.45	0.40	495-2026-1-ND▲	.41	3.72	16.52	495-2026-2-ND	4,000	145.00/M	B82496C3180J
0.022	±5%	14	0.50	0.38	495-1833-1-ND▲	.41	3.72	16.52	495-1833-2-ND	4,000	145.00/M	B82496C3220J
0.027	±5%	14	0.55	0.36	495-2029-1-ND▲	.41	3.72	16.52	495-2029-2-ND	4,000	145.00/M	B82496C3270J
0.033	±5%	14	0.60	0.35	495-1836-1-ND▲	.41	3.72	16.52	495-1836-2-ND	4,000	145.00/M	B82496C3330J
0.039	±5%	14	0.80	0.30	495-2031-1-ND▲	.41	3.72	16.52	495-2031-2-ND	4,000	145.00/M	B82496C3390J
0.047	±5%	14	0.95	0.27	495-1838-1-ND▲	.41	3.72	16.52	495-1838-2-ND	4,000	145.00/M	B82496C3470J
0.056	±5%	14	1.2	0.25	495-2033-1-ND▲	.41	3.72	16.52	495-2033-2-ND	4,000	145.00/M	B82496C3560J
0.068	±5%	14	1.3	0.23	495-1840-1-ND▲	.41	3.72	16.52	495-1840-2-ND	4,000	145.00/M	B82496C3680J
0.082	±5%	14	1.5	0.22	495-1842-1-ND▲	.41	3.72	16.52	495-1842-2-ND	4,000	145.00/M	B82496C3820J
0.1	±5%	14	1.8	0.20	495-1825-1-ND▲	.41	3.72	16.52	495-1825-2-ND	4,000	145.00/M	B82496C3101J
0.12	±5%	5	3.0	0.16	495-1828-1-ND	.41	3.72	16.52	495-1828-2-ND	4,000	145.00/M	B82496C3121J
0.15	±5%	5	5.0	0.13	495-1831-1-ND	.41	3.72	16.52	495-1831-2-ND	4,000	145.00/M	B82496C3151J
0.18	±5%	4	6.0	0.12	495-2027-1-ND	.41	3.72	16.52	495-2027-2-ND	4,000	145.00/M	B82496C3181J
0.22	±5%	4	7.0	0.11	495-1834-1-ND▲	.41	3.72	16.52	495-1834-2-ND	4,000	145.00/M	B82496C3221J
Fig. 7 — B82498F Series — 0805												
0.0027	±10%	50	0.03	1.0	495-2058-1-ND◊	.76	6.82	30.32	495-2058-2-ND	3,000	265.00/M	B82498F3279K
0.0056	±10%	50	0.04	0.9	495-2113-1-ND◊	.76	6.82	30.32	495-2113-2-ND	3,000	265.00/M	B82498F3569K
0.0068	±10%	50	0.05	0.8	495-1857-1-ND◊	.76	6.82	30.32	495-1857-2-ND	3,000	265.00/M	B82498F3689K
0.0082	±10%	50	0.09	0.7	495-1859-1-ND◊	.76	6.82	30.32	495-1859-2-ND	3,000	265.00/M	B82498F3829K
0.01	±5%	50	0.09	0.7	495-1848-1-ND◊	.76	6.82	30.32	495-1848-2-ND	3,000	265.00/M	B82498F3100J
0.012	±5%	50	0.09	0.7	495-2035-1-ND◊	.76	6.82	30.32	495-2035-2-ND	3,000	265.00/M	B82498F3120J
0.015	±5%	50	1.13	0.65	495-2036-1-ND◊	.76	6.82	30.32	495-2036-2-ND	3,000	265.00/M	B82498F3150J
0.018	±5%	60	0.08	0.7	495-2037-1-ND◊	.76	6.82	30.32	495-2037-2-ND	3,000	265.00/M	B82498F3180J
0.022	±5%	60	0.08	0.7	495-1850-1-ND◊	.76	6.82	30.32	495-1850-2-ND	3,000	265.00/M	B82498F3220J
0.027	±5%	60	0.09	0.7	495-2038-1-ND◊	.76	6.82	30.32	495-2038-2-ND	3,000	265.00/M	B82498F3270J
0.033	±5%	65	0.11	0.6	495-1852-1-ND◊	.76	6.82	30.32	495-1852-2-ND	3,000	265.00/M	B82498F3330J
0.039	±5%	65	0.12	0.6	495-2040-1-ND◊	.76	6.82	30.32	495-2040-2-ND	3,000	265.00/M	B82498F3390J
0.047	±5%	65	0.13	0.6	495-1854-1-ND◊	.76	6.82	30.32	495-1854-2-ND	3,000	265.00/M	B82498F3470J
0.056	±5%	60	0.14	0.6	495-2041-1-ND◊	.76	6.82	30.32	495-2041-2-ND	3,000	265.00/M	B82498F3560J
0.068	±5%	60	0.18	0.5	495-1856-1-ND◊	.76	6.82	30.32	495-1856-2-ND	3,000	265.00/M	B82498F3680J
0.082	±5%	60	0.19	0.5	495-1858-1-ND◊	.76	6.82	30.32	495-1858-2-ND	3,000	265.00/M	B82498F3820J
0.1	±5%	55	0.28	0.45	495-1849-1-ND◊	.76	6.82	30.32	495-1849-2-ND	3,000	265.00/M	B82498F3101J
0.12	±5%	50	0.31	0.44	495-3433-1-ND◊	.76	6.82	30.32	495-3433-2-ND	3,000	265.00/M	B82498F3121J
0.15	±5%	45	0.42	0.40	495-3434-1-ND◊	.76	6.82	30.32	495-3434-2-ND	3,000	265.00/M	B82498F3151J
0.22	±5%	45	0.70	0.32	495-1851-1-ND◊	.76	6.82	30.32	495-1851-2-ND	3,000	265.00/M	B82498F3221J

Fig. 7

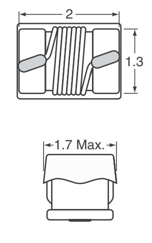

Fig. 8

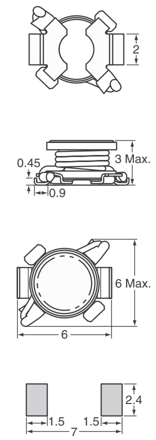

Fig. 9

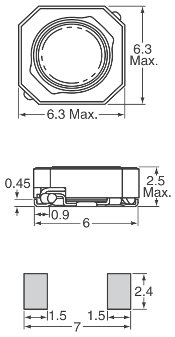

Fig. 10

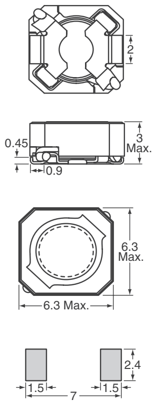

(Continued)

Surface Mount Inductors *(Cont.)*

Inductance (µH)	Inductance Tolerance	Qmin.	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
0.33	±5%	45	1.5	0.22	495-1853-1-ND◊	.76	6.82	30.32	495-1853-2-ND	3,000	265.00/M	B82498F3331J
0.47	±5%	30	1.9	0.19	495-1855-1-ND◊	.76	6.82	30.32	495-1855-2-ND	3,000	265.00/M	B82498F3471J
0.68	±5%	23	1.7	0.19	495-3436-1-ND◊	.76	6.82	30.32	495-3436-2-ND	3,000	265.00/M	B82498F3681J
0.82	±5%	23	1.9	0.18	495-3435-1-ND◊	.76	6.82	30.32	495-3435-2-ND	3,000	265.00/M	B82498F3821J
1.0	±5%	20	0.55	0.24	495-1844-1-ND	.99	8.94	39.74	495-1844-2-ND	3,000	348.00/M	B82498F1102J
2.2	±5%	20	1.6	0.13	495-1845-1-ND	.99	8.94	39.74	495-1845-2-ND	3,000	348.00/M	B82498F1222J
4.7	±5%	20	3.8	0.09	495-1846-1-ND	.99	8.94	39.74	495-1846-2-ND	3,000	348.00/M	B82498F1472J
6.8	±5%	20	4.7	0.08	495-1847-1-ND	.99	8.94	39.74	495-1847-2-ND	3,000	348.00/M	B82498F1682J

▲ 495-1684-ND	B82496C Series Inductor Kit 15 Each of Values Denoted	**$77.03**
◊ 495-1685-ND	B82498F Series Inductor Kit 15 Each of Values Denoted	**$77.03**
‡ 495-1679-ND	B82422A Series Inductor Kit 15 Each of Values Denoted	**$77.03**
† 495-1680-ND	B82432T Series Inductor Kit 15 Each of Values Denoted	**$77.03**
§ 495-1682-ND	B82442A/B82442H Series Inductor Kit 6 Each of Values Denoted	**$77.03**

Inductance (µH)	Induct ance Tolerance	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
Fig. 8 — B82462A4 Series											
1.0	±20%	0.024	3.0	495-2659-1-ND	1.03	9.36	42.06	495-2659-2-ND	2,500	508.00/M	B82462A4102M
3.3	±20%	0.06	2.0	495-2663-1-ND	1.03	9.36	42.06	495-2663-2-ND	2,500	508.00/M	B82462A4332M
4.7	±20%	0.08	1.65	495-2665-1-ND	1.03	9.36	42.06	495-2665-2-ND	2,500	508.00/M	B82462A4472M
6.8	±20%	0.1	1.4	495-2667-1-ND	1.03	9.36	42.06	495-2667-2-ND	2,500	508.00/M	B82462A4682M
10	±20%	0.14	1.15	495-2660-1-ND	1.03	9.36	42.06	495-2660-2-ND	2,500	508.00/M	B82462A4103M
22	±10%	0.26	0.8	495-2662-1-ND	1.03	9.36	42.06	495-2662-2-ND	2,500	508.00/M	B82462A4223K
47	±10%	0.64	0.54	495-2666-1-ND	1.03	9.36	42.06	495-2666-2-ND	2,500	508.00/M	B82462A4473K
100	±10%	1.28	0.35	495-2661-1-ND	1.03	9.36	42.06	495-2661-2-ND	2,500	508.00/M	B82462A4104K
330	±10%	3.9	0.2	495-2664-1-ND	1.03	9.36	42.06	495-2664-2-ND	2,500	508.00/M	B82462A4334K
Fig. 9 — B82462G2 Series											
4.7	±20%	0.061	1.6	495-2674-1-ND	1.35	12.23	55.00	495-2674-2-ND	2,500	664.00/M	B82462G2472M
22	±20%	0.245	0.83	495-2671-1-ND	1.35	12.23	55.00	495-2671-2-ND	2,500	664.00/M	B82462G2223M
100	±20%	0.95	0.41	495-2669-1-ND	1.35	12.23	55.00	495-2669-2-ND	2,500	664.00/M	B82462G2104M
Fig. 10 — B82462G4 Series											
1.0	±20%	0.016	3.4	495-1985-1-ND	1.90	17.07	75.86	495-1985-2-ND	2,500	664.00/M	B82462G4102M
1.5	±20%	0.020	3.1	495-1988-1-ND	1.90	17.07	75.86	495-1988-2-ND	2,500	664.00/M	B82462G4152M
2.2	±20%	0.025	2.55	495-1991-1-ND	1.90	17.07	75.86	495-1991-2-ND	2,500	664.00/M	B82462G4222M
3.3	±20%	0.031	2.3	495-1994-1-ND	1.90	17.07	75.86	495-1994-2-ND	2,500	664.00/M	B82462G4332M
4.7	±20%	0.040	2.0	495-1997-1-ND	1.90	17.07	75.86	495-1997-2-ND	2,500	664.00/M	B82462G4472M
6.8	±20%	0.050	1.65	495-1999-1-ND	1.90	17.07	75.86	495-1999-2-ND	2,500	664.00/M	B82462G4682M
10	±20%	0.062	1.5	495-1986-1-ND	1.90	17.07	75.86	495-1986-2-ND	2,500	664.00/M	B82462G4103M
15	±20%	0.097	1.25	495-1989-1-ND	1.90	17.07	75.86	495-1989-2-ND	2,500	664.00/M	B82462G4153M
22	±20%	0.15	1.05	495-1992-1-ND	1.90	17.07	75.86	495-1992-2-ND	2,500	664.00/M	B82462G4223M
33	±20%	0.23	0.85	495-1995-1-ND	1.90	17.07	75.86	495-1995-2-ND	2,500	664.00/M	B82462G4333M
47	±20%	0.31	0.75	495-1998-1-ND	1.90	17.07	75.86	495-1998-2-ND	2,500	664.00/M	B82462G4473M
68	±20%	0.41	0.65	495-2000-1-ND	1.90	17.07	75.86	495-2000-2-ND	2,500	664.00/M	B82462G4683M
100	±20%	0.58	0.53	495-1987-1-ND	1.90	17.07	75.86	495-1987-2-ND	2,500	664.00/M	B82462G4104M
150	±20%	1.05	0.38	495-1990-1-ND	1.90	17.07	75.86	495-1990-2-ND	2,500	664.00/M	B82462G4154M
220	±20%	1.35	0.35	495-1993-1-ND	1.90	17.07	75.86	495-1993-2-ND	2,500	664.00/M	B82462G4224M
330	±20%	2.30	0.27	495-1996-1-ND	1.90	17.07	75.86	495-1996-2-ND	2,500	664.00/M	B82462G4334M
Fig. 11 — B82464A Series											
1.0	±20%	0.009	7.0	495-2001-1-ND†	2.01	18.07	80.32	495-2001-2-ND	750	527.25	B82464A4102M
2.2	±20%	0.012	5.7	495-2008-1-ND†	2.01	18.07	80.32	495-2008-2-ND	750	527.25	B82464A4222M
3.3	±20%	0.015	4.9	495-2011-1-ND†	2.01	18.07	80.32	495-2011-2-ND	750	527.25	B82464A4332M
4.7	±20%	0.018	4.3	495-2014-1-ND†	2.01	18.07	80.32	495-2014-2-ND	750	527.25	B82464A4472M
6.8	±20%	0.027	3.5	495-2017-1-ND†	2.01	18.07	80.32	495-2017-2-ND	750	527.25	B82464A4682M
10	±20%	0.038	2.9	495-2002-1-ND†	2.01	18.07	80.32	495-2002-2-ND	750	527.25	B82464A4103M
15	±10%	0.046	2.5	495-2006-1-ND†	2.01	18.07	80.32	495-2006-2-ND	750	527.25	B82464A4153K
22	±10%	0.085	2.1	495-2009-1-ND†	2.01	18.07	80.32	495-2009-2-ND	750	527.25	B82464A4223K
33	±10%	0.1	1.8	495-2012-1-ND†	2.01	18.07	80.32	495-2012-2-ND	750	527.25	B82464A4333K
47	±10%	0.14	1.5	495-2015-1-ND†	2.01	18.07	80.32	495-2015-2-ND	750	527.25	B82464A4473K
68	±10%	0.2	1.25	495-2018-1-ND†	2.01	18.07	80.32	495-2018-2-ND	750	527.25	B82464A4683K
100	±10%	0.28	1.03	495-2003-1-ND†	2.01	18.07	80.32	495-2003-2-ND	750	527.25	B82464A4104K
150	±10%	0.40	0.86	495-2007-1-ND	2.01	18.07	80.32	495-2007-2-ND	750	527.25	B82464A4154K
220	±10%	0.61	0.69	495-2010-1-ND†	2.01	18.07	80.32	495-2010-2-ND	750	527.25	B82464A4224K
330	±10%	1.0	0.58	495-2013-1-ND	2.01	18.07	80.32	495-2013-2-ND	750	527.25	B82464A4334K
470	±10%	1.27	0.5	495-2016-1-ND†	2.01	18.07	80.32	495-2016-2-ND	750	527.25	B82464A4474K
1000	±10%	3.0	0.33	495-2004-1-ND†	2.01	18.07	80.32	495-2004-2-ND	750	527.25	B82464A4105K
Fig. 12 — B82464G Series											
1.0	±20%	0.007	7.5	495-1795-1-ND†	2.15	19.31	85.80	495-1795-2-ND	750	563.25	B82464G4102M
1.5	±20%	0.009	7	495-2021-1-ND†	1.52	13.84	62.21	495-2021-2-ND	750	563.25	B82464G4152M
2.2	±20%	0.01	6.5	495-1799-1-ND†	1.52	13.84	62.21	495-1799-2-ND	750	563.25	B82464G4222M
4.7	±20%	0.015	4.9	495-1805-1-ND†	2.15	19.31	85.80	495-1805-2-ND	750	563.25	B82464G4472M
6.8	±20%	0.02	4.3	495-1808-1-ND†	2.15	19.31	85.80	495-1808-2-ND	750	563.25	B82464G4682M
10	±20%	0.03	3.4	495-1796-1-ND†	2.15	19.31	85.80	495-1796-2-ND	750	563.25	B82464G4103M
15	±20%	0.04	2.75	495-2023-1-ND†	2.15	19.31	85.80	495-2023-2-ND	750	563.25	B82464G4153M

Fig. 11

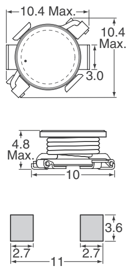

Fig. 12

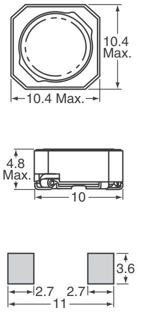

Fig. 13

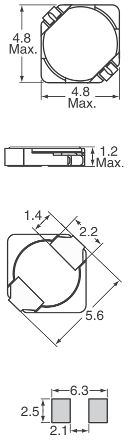

Fig. 14

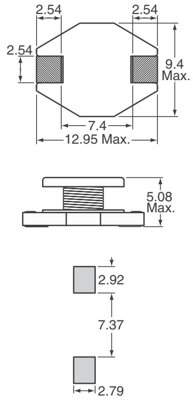

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Inductors *(Cont.)*

Induct-ance (µH)	Induct ance Tolerance	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
					1	10	50		Qty.	Pricing	
22	±20%	0.052	2.25	495-1800-1-ND†	2.15	19.31	85.80	495-1800-2-ND	750	563.25	B82464G4223M
33	±20%	0.075	1.85	495-1803-1-ND†	2.15	19.31	85.80	495-1803-2-ND	750	563.25	B82464G4333M
47	±20%	0.095	1.55	495-1806-1-ND†	2.15	19.31	85.80	495-1806-2-ND	750	563.25	B82464G4473M
68	±20%	0.13	1.3	495-1809-1-ND†	2.15	19.31	85.80	495-1809-2-ND	750	563.25	B82464G4683M
100	±20%	0.22	1.05	495-1797-1-ND†	2.15	19.31	85.80	495-1797-2-ND	750	563.25	B82464G4104M
150	±20%	0.32	0.85	495-2024-1-ND	2.15	19.31	85.80	495-2024-2-ND	750	563.25	B82464G4154M
220	±20%	0.44	0.7	495-1801-1-ND†	2.15	19.31	85.80	495-1801-2-ND	750	563.25	B82464G4224M
330	±20%	0.65	0.59	495-1804-1-ND	2.15	19.31	85.80	495-1804-2-ND	750	563.25	B82464G4334M
470	±20%	0.93	0.5	495-1807-1-ND†	2.15	19.31	85.80	495-1807-2-ND	750	563.25	B82464G4474M
680	±20%	1.3	0.42	495-1810-1-ND	2.15	19.31	85.80	495-1810-2-ND	750	563.25	B82464G4684M
1000	±20%	2.2	0.34	495-1798-1-ND†	2.15	19.31	85.80	495-1798-2-ND	750	563.25	B82464G4105M
Fig. 12 — B82464Z Series											
1.0	±20%	0.007	7.5	495-3460-1-ND	1.20	10.93	49.13	495-3460-2-ND	750	444.75	B82464Z4102M
2.2	±20%	0.01	6.5	495-3467-1-ND	1.20	10.93	49.13	495-3467-2-ND	750	444.75	B82464Z4222M
3.3	±20%	0.012	5.5	495-3470-1-ND	1.20	10.93	49.13	495-3470-2-ND	750	444.75	B82464Z4332M
4.7	±20%	0.015	4.9	495-3473-1-ND	1.20	10.93	49.13	495-3473-2-ND	750	444.75	B82464Z4472M
6.8	±20%	0.02	4.3	495-3476-1-ND	1.20	10.93	49.13	495-3476-2-ND	750	444.75	B82464Z4682M
10	±20%	0.03	3.4	495-3461-1-ND	1.20	10.93	49.13	495-3461-2-ND	750	444.75	B82464Z4103M
15	±20%	0.04	2.75	495-3465-1-ND	1.20	10.93	49.13	495-3465-2-ND	750	444.75	B82464Z4153M
22	±20%	0.052	2.25	495-3468-1-ND	1.20	10.93	49.13	495-3468-2-ND	750	444.75	B82464Z4223M
33	±20%	0.075	1.85	495-3471-1-ND	1.20	10.93	49.13	495-3471-2-ND	750	444.75	B82464Z4333M
47	±20%	0.095	1.55	495-3474-1-ND	1.20	10.92	49.13	495-3474-2-ND	750	444.75	B82464Z4473M
100	±20%	0.22	1.05	495-3462-1-ND	1.20	10.93	49.13	495-3462-2-ND	750	444.75	B82464Z4104M
150	±20%	0.32	0.85	495-3466-1-ND	1.20	10.93	49.13	495-3466-2-ND	750	444.75	B82464Z4154M
220	±20%	0.44	0.7	495-3469-1-ND	1.20	10.93	49.13	495-3469-2-ND	750	444.75	B82464Z4224M
680	±20%	1.3	0.42	495-3478-1-ND	1.20	10.93	49.13	—	—	—	B82464Z4684M
1000	±20%	2.2	0.34	495-3463-1-ND	1.20	10.93	49.13	495-3463-2-ND	750	444.75	B82464Z4105M
Fig. 13 — B82470A Series											
1.0	±20%	0.045	1.8	495-2678-1-ND	.94	8.52	38.32	495-2678-2-ND	1,000	463.00	B82470A1102M
4.7	±20%	0.19	0.95	495-2682-1-ND	.94	8.52	38.32	495-2682-2-ND	1,000	463.00	B82470A1472M
10	±20%	0.305	0.75	495-2679-1-ND	.94	8.52	38.32	495-2679-2-ND	1,000	463.00	B82470A1103M
Fig. 14 — B82476A Series											
2.2	±20%	0.0105	6.1	495-2687-1-ND	1.50	13.67	61.45	495-2687-2-ND	750	556.50	B82476A1222M
3.3	±20%	0.0135	5.4	495-2688-1-ND	1.50	13.67	61.45	495-2688-2-ND	750	556.50	B82476A1332M
10	±20%	0.027	3.9	495-2685-1-ND	1.50	13.67	61.45	495-2685-2-ND	750	556.50	B82476A1103M
33	±20%	0.088	2.1	495-2689-1-ND	1.50	13.67	61.45	495-2689-2-ND	750	556.50	B82476A1333M
47	±20%	0.12	1.8	495-2691-1-ND	1.50	13.67	61.45	495-2691-2-ND	750	556.50	B82476A1473M
68	±20%	0.16	1.5	495-2694-1-ND	1.50	13.67	61.45	495-2694-2-ND	750	556.50	B82476A1683M
100	±20%	0.23	1.3	495-2686-1-ND	1.50	13.67	61.45	495-2686-2-ND	750	556.50	B82476A1104M
470	±20%	1.1	0.5	495-2692-1-ND	1.50	13.67	61.45	495-2692-2-ND	750	556.50	B82476A1474M
Fig. 15 — B82477G2 Series											
1.0	±20%	0.009	9	495-2695-1-ND	1.84	16.71	75.12	495-2695-2-ND	600	544.20	B82477G2102M
4.7	±20%	0.02	5	495-2698-1-ND	1.60	14.53	65.32	495-2698-2-ND	600	544.20	B82477G2472M
10	±20%	0.025	4	495-2696-1-ND	2.12	19.29	86.71	495-2696-2-ND	600	628.20	B82477G2103M
47	±20%	0.075	1.8	495-2699-1-ND	1.84	16.71	75.12	495-2699-2-ND	600	544.20	B82477G2473M
100	±20%	0.16	1.3	495-2697-1-ND	1.84	16.71	75.12	495-2697-2-ND	600	544.20	B82477G2104M
470	±20%	0.77	0.58	495-2700-1-ND	1.84	16.71	75.12	495-2700-2-ND	600	544.20	B82477G2474M
Fig. 16 — B82477G4 Series											
4.7	±20%	0.014	6.8	495-1821-1-ND	1.84	16.71	75.12	495-1821-2-ND	400	362.80	B82477G4472M
10	±20%	0.022	5.4	495-1818-1-ND	1.84	16.71	75.12	495-1818-2-ND	400	362.80	B82477G4103M
47	±20%	0.082	2.5	495-1822-1-ND	1.84	16.71	75.12	495-1822-2-ND	400	362.80	B82477G4473M
100	±20%	0.165	1.7	495-1819-1-ND	1.84	16.71	75.12	495-1819-2-ND	400	362.80	B82477G4104M
Fig. 17 — B82479A1 Series											
10	±20%	0.032	4.3	495-2702-1-ND	1.88	17.05	76.65	495-2702-2-ND	250	231.25	B82479A1103M
47	±20%	0.087	2.6	495-2704-1-ND	1.88	17.05	76.65	495-2704-2-ND	250	231.25	B82479A1473M
100	±20%	0.19	1.8	495-2703-1-ND	1.88	17.05	76.65	495-2703-2-ND	250	231.25	B82479A1104M
470	±20%	0.85	0.82	495-2705-1-ND	1.88	17.05	76.65	495-2705-2-ND	250	231.25	B82479A1474M

† 495-1683-ND B82464G/B82464A Series Inductor Kit 3 Each of Values Denoted **$113.10**

Fig. 15

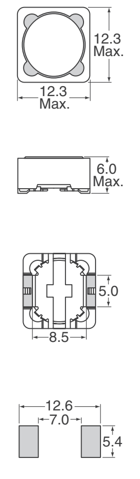

Fig. 16

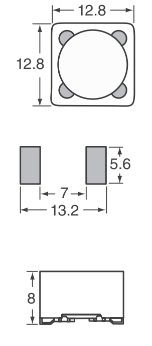

Fig. 17

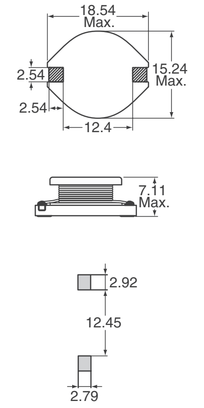

Chokes for Data and Signal Lines

B82790S0513N201:

Features: • Current compensated ring core choke with ferrite core • Case flame-retardant per UL94V-0 • Suitable for reflow soldering **Specifications:** • Rated voltage: 42VAC (50/60Hz) / 80VDC

B82793S0513N201:

Features: • Current compensated ring core choke with ferrite core • High rated current • Reduced component height • Case flame-retardant per UL94V-0 • Suitable for reflow soldering **Specifications:** • Rated voltage: 42VAC (50/60Hz) / 80VDC

Fig.	Inductance (µH)	DC Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,500	Epcos Part No.
					1	10	50			
1	51	0.16	500	495-1868-1-ND	5.57	5.02	4.46	495-1868-2-ND	1950.00/M	B82790S0513N201
2	51	0.16	800	495-1869-1-ND	2.96	2.67	2.37	495-1869-2-ND	1036.00/M	B82793S0513N201

Fig. 1

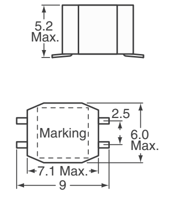

Fig. 2

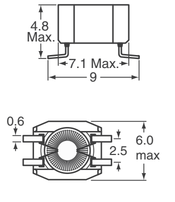

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Chokes for Power Lines — Current Compensated Ring Core Double Chokes

Construction: • Current-compensated ring core double choke with ferrite core • Polycarbonate case • Polyurethane potting • Sector winding
Features: • Case and potting flame-retardant per UL94V-0 • High resonance frequency owing to a special winding technique • Approximately 1% stray inductance for symmetrical interference suppression
Specifications: • Rated voltage: 250VAC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: ±30%

Fig. 1

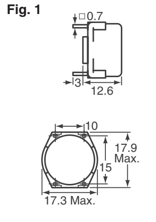

Fig. 2

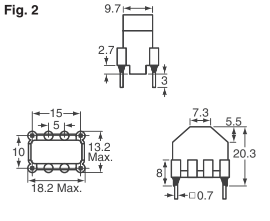

Fig. 3

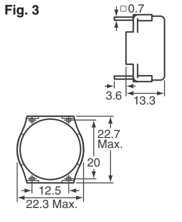

Fig. 4

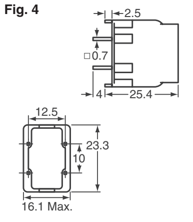

Fig. 5

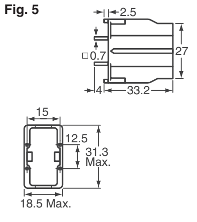

Fig. 6

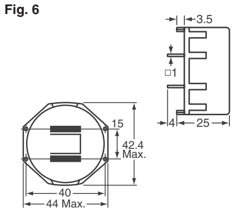

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	400	0.035	3600	495-2726-ND	2.85	2.15	1.67	B82721A2362N1
	400	0.06	2600	495-2725-ND	2.85	2.15	1.67	B82721A2262N1
	1000	0.09	2000	495-2724-ND	2.85	2.15	1.67	B82721A2202N1
	3300	0.19	1500	495-2723-ND	2.85	2.15	1.67	B82721A2152N1
	6800	0.28	1200	495-2722-ND	2.20	1.65	1.29	B82721A2122N20
	10000	0.6	700	495-2730-ND	2.85	2.15	1.67	B82721A2701N20
	18000	1.5	500	495-2729-ND	2.85	2.15	1.67	B82721A2501N1
	27000	1.7	400	495-2728-ND	2.85	2.15	1.67	B82721A2401N21
	39000	2.0	400	495-2727-ND	3.51	2.64	2.05	B82721A2401N20
2	400	0.035	3600	495-2735-ND	2.42	1.82	1.41	B82721K2362N1
	400	0.06	2600	495-2734-ND	2.42	1.82	1.41	B82721K2262N1
	1000	0.09	2000	495-2733-ND	2.42	1.82	1.41	B82721K2202N1
	3300	0.19	1500	495-2732-ND	1.99	1.50	1.17	B82721K2152N1
	6800	0.28	1200	495-2731-ND	2.42	1.82	1.41	B82721K2122N20
	10000	0.6	700	495-2739-ND	2.42	1.82	1.41	B82721K2701N20
	18000	1.5	500	495-2738-ND	2.42	1.82	1.41	B82721K2501N1

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
2	27000	1.7	400	495-2737-ND	2.42	1.82	1.41	B82721K2401N21
	39000	2.0	400	495-2736-ND	2.42	1.82	1.41	B82721K2401N20
3	1200	0.056	3000	495-2743-ND	2.57	1.93	1.50	B82722A2302N1
	2200	0.13	2000	495-2741-ND	2.57	1.93	1.50	B82722A2202N1
	10000	0.48	1000	495-2740-ND	2.57	1.93	1.50	B82722A2102N1
	27000	1.2	500	495-2744-ND	2.57	1.93	1.50	B82722A2501N1
4	1200	0.056	3000	495-2748-ND	2.33	1.76	1.37	B82722J2302N1
	2200	0.13	2000	495-2746-ND	2.33	1.76	1.37	B82722J2202N1
	10000	0.48	1000	495-2745-ND	2.80	2.11	1.64	B82722J2102N1
5	3300	0.066	4000	495-2753-ND	3.44	2.59	2.01	B82724J2402N1
	33000	0.81	1000	495-2750-ND	3.44	2.59	2.01	B82724J2102N1
6	2700	0.022	8000	495-2759-ND	9.81	7.36	5.72	B82725A2802N1
	3900	0.041	6000	495-2758-ND	9.81	7.36	5.72	B82725A2602N1
	6800	0.087	4000	495-2757-ND	9.81	7.36	5.72	B82725A2402N1
	18000	0.35	2000	495-2756-ND	9.81	7.36	5.72	B82725A2202N1

D Core Chokes

Construction:
• Current-compensated double choke with closed, rectangular ferrite core • Closed polycarbonate coil former with 4 sections • Without encapsulation • 2-section winding

Features:
• Coil former is flame-retardant per UL94V-0 • High resonance frequency due to 2-section winding • Low leakage due to closed core shape • High pulse strength • Approximately 1% stray inductance for symmetrical interference suppression

Specifications:
• Rated voltage: 250VAC/DC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: -30/+50%

Fig. 1

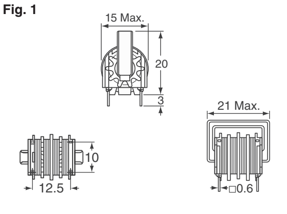

Fig. 2

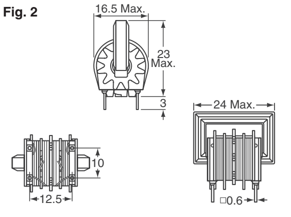

Fig. 3

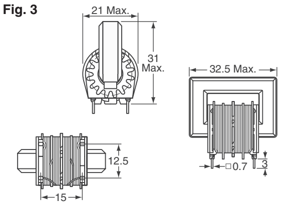

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	3300	0.14	1800	495-2762-ND	1.86	1.40	1.09	B82731M2182A30
	6800	0.28	1300	495-2761-ND	1.86	1.40	1.09	B82731M2132A30
	10000	0.4	1100	495-2760-ND	1.86	1.40	1.09	B82731M2112A30
	15000	0.6	900	495-2768-ND	1.86	1.40	1.09	B82731M2901A30
	27000	1.0	700	495-2767-ND	1.86	1.40	1.09	B82731M2701A30
	39000	1.5	600	495-2766-ND	1.86	1.40	1.09	B82731M2601A30
	47000	2.0	500	495-2765-ND	1.86	1.40	1.09	B82731M2501A30
	68000	3.0	400	495-2764-ND	1.86	1.40	1.09	B82731M2401A33
	100000	4.5	350	495-2763-ND	1.86	1.40	1.09	B82731M2351A30
	3300	0.11	2200	495-2779-ND	2.18	1.64	1.27	B82732R2222B30
	6800	0.19	1700	495-2778-ND	2.18	1.64	1.27	B82732R2172B30

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
2	10000	0.3	1400	495-2777-ND	2.18	1.64	1.27	B82732R2142B30
	15000	0.44	1100	495-2776-ND	2.18	1.64	1.27	B82732R2112B30
	27000	0.75	900	495-2782-ND	2.18	1.64	1.27	B82732R2901B30
	47000	1.4	600	495-2780-ND	2.18	1.64	1.27	B82732R2601B30
3	3300	0.046	4600	495-2796-ND	3.74	2.81	2.19	B82734R2462B30
	6800	0.085	3200	495-2795-ND	3.74	2.81	2.19	B82734R2322B30
	10000	0.13	2600	495-2794-ND	3.74	2.81	2.19	B82734R2262B30
	15000	0.185	2300	495-2793-ND	3.74	2.81	2.19	B82734R2232B30
	27000	0.32	1700	495-2792-ND	3.74	2.81	2.19	B82734R2172B30
	39000	0.46	1400	495-2791-ND	3.74	2.81	2.19	B82734R2142B30
	47000	0.56	1300	495-2790-ND	3.74	2.81	2.19	B82734R2132B30

FC Core Chokes

Construction: • Current-compensated double choke • Closed magnetic circuit with frame construction • 4-section winding with direct winding of the core
Features: • High inductance with low resistance • Excellent differential-mode suppression • Low height allows usage in lamp ballasts • High pulse-handling capability
Specifications: • Rated voltage: 250VAC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: ±30%

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	10000	0.29	1600	495-2770-ND	2.67	2.01	1.56	B82732F2162B001
	47000	1.26	700	495-2773-ND	2.67	2.01	1.56	B82732F2701B001
2	10000	0.188	2300	495-2787-ND	2.81	2.11	1.64	B82733F2232B001
	27000	0.44	1400	495-2785-ND	2.81	2.11	1.64	B82733F2142B001
	39000	0.696	1200	495-2784-ND	2.81	2.11	1.64	B82733F2122B001
	100000	1.81	700	495-2788-ND	2.81	2.11	1.64	B82733F2701B001

Fig. 1

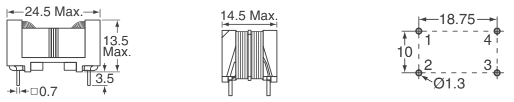

Fig. 2

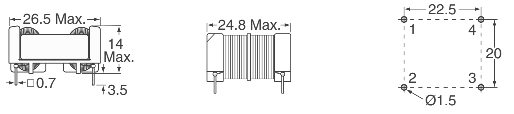

Power Line Filters

B84110A Series

Features: • High insertion loss • Cost-effective solution **Applications:** • Medium-performance switch-mode power supplies • Data systems, gambling machines, small-size equipment • DC applications **Specifications:** • Rated voltage: 250VDC/AC @ 50/60Hz • Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (lines/ground) • Climatic category (IEC 60068-1): 25/100/21

Rated Voltage (VAC/DC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
250	1	2 x 10	495-2797-ND	9.98	8.74	7.24	B84110A0000A010
	4	2 x 2.7	495-2799-ND	10.38	9.09	7.53	B84110A0000A040

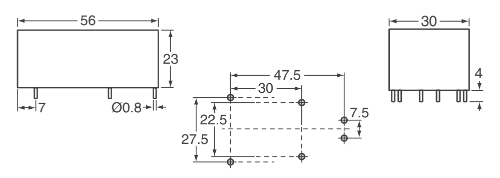

B84112G Series

Features: • Compact Design • Optimized leakage current **Applications:** • Switch-mode power supplies in industrial electronics, telecommunications, data systems and medical equipment • DC Applications **Specifications:** • Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (lines/case) • Climatic category (IEC 60068-1): 25/100/21

Fig.	Rated Voltage @ 50/60Hz (VAC/DC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	250	3	2 x 10	495-2803-ND	21.82	19.10	15.82	B84112G0000B030
	250	6	2 x 3.3	495-2804-ND	23.18	20.29	16.81	B84112G0000B060
	250	10	2 x 1.8	495-2801-ND	23.70	20.74	17.19	B84112G0000B110
2	250	20	2 x 1.8	495-2805-ND	58.84	51.49	42.66	B84112G0000G120
	250	36	2 x 0.75	495-2807-ND	71.20	62.30	51.62	B84112G0000G136

Fig. 1

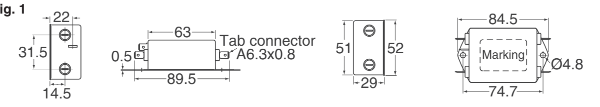

Fig. 2

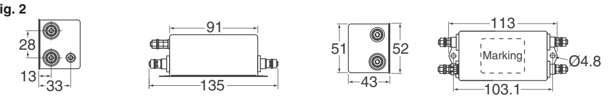

B84113H Series

Features: • Low leakage current • Compact Design **Applications:** • Switch-mode power supplies in industrial electronics, telecommunications, data systems and medical engineering **Specifications:** • Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (line/ground) • Climatic category (IEC 60068-1): 25/100/21

Fig.	Rated Voltage @ 50/60Hz (VAC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	250	6	4 x 3.6	495-2811-ND	28.96	25.34	21.00	B84113H0000B060
2	250	20	4 x 1.2	495-2812-ND	79.44	69.51	57.60	B84113H0000G120

Fig. 1

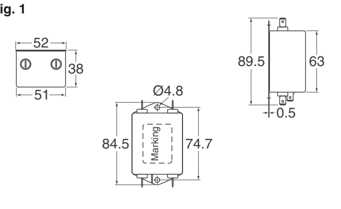

Fig. 2

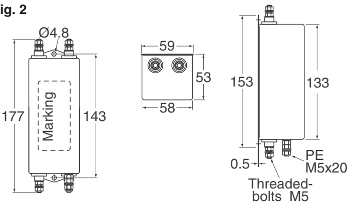

E

Magnetics Modules for LAN Applications

Features: • Specifically for LAN applications, EPCOS has developed magnetic modules for both electrical isolation and suppression of common-mode and differential-mode interference. • The modules are available in single, dual and quad port versions and are qualified to IPC/JEDEC J-STD-020C abd IEEE 802.3. • The electrial isolation can withstand a breakdown voltage of 1500 VAC.

Characteristics: • The insertion loss of the modules is only -1.0 dB. • Values of -16 dB and -40 dB are attained for return loss and crosstalk, respectively. • In addition to the standard temperature range for 0°C ~ 70°C, versions with an extended temperature range -40°C ~ 85°C were developed for industrial applications. • Typical applications are 10/100 Base-T, 1000 Base-T as well as PoE (Power over Ethernet).

No. of Ports	Turns Ratio (Primary : Secondary)	Package Style	Dimensions L x W x H (mm)	Features	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
1	1CT:1CT	12-PIN SMD	14.81 x 11.7 x 5.15	10/100 Base T	495-4018-1-ND	4.98	4.49	3.74	495-4018-2-ND	400	929.60	B78476A8067A3
1	1CT:1CT	16-PIN SMD	25.4 x 10.56 x 6.1	10/100 Base T	495-4019-1-ND	4.98	4.49	3.74	495-4019-2-ND	400	929.60	B78476A7694A3
1	1CT:1CT	16-PIN SMD	12.7 x 7.11 x 5.6	10/100 Base T	495-4020-1-ND	3.33	3.00	2.50	495-4020-2-ND	500	777.00	B78476A8065A3
1	1CT:1CT	16-PIN SMD	12.7 x 6.9 x 5.6	10/100 Base T, PoE	495-4022-1-ND	3.33	3.00	2.50	495-4022-2-ND	500	777.00	B78476A8245A3
1	1CT:1CT	16-PIN SMD	12.7 x 6.9 x 5.6	10/100 Base T, Extended Temperature	495-4025-1-ND	3.66	3.30	2.75	495-4025-2-ND	500	854.00	B78476A8247A3
1	1CT:1CT	16-PIN SMD	12.7 x 6.9 x 5.6	10/100 Base T, PoE, Extended Temperature	495-4026-1-ND	3.66	3.30	2.75	495-4026-2-ND	500	854.00	B78476A8248A3
1	1CT:1CT	24-PIN SMD	17.6 x 12.1 x 5.8	1000 Base T	495-4027-1-ND	6.63	5.97	4.98	495-4027-2-ND	350	1082.90	B78476A8317A3
1	1CT:1CT	24-PIN SMD	17.6 x 12.1 x 5.8	1000 Base T	495-4028-1-ND	6.63	5.97	4.98	495-4028-2-ND	350	1082.90	B78476A8249A3
1	1CT:1CT	24-PIN SMD	17.6 x 12.1 x 5.8	1000 Base T, PoE	495-4030-1-ND	6.63	5.97	4.98	495-4030-2-ND	350	1082.90	B78476A8253A3
1	1CT:1CT	24-PIN SMD	17.6 x 12.1 x 5.7	1000 Base T, Extended Temperature	495-4032-1-ND	6.63	5.97	4.98	495-4032-2-ND	350	1082.90	B78476A8251A3
1	1CT:1CT	24-PIN SMD	13.8 x 15.2 x 5.72	1000 Base T, Extended Temperature	495-4033-1-ND	6.63	5.97	4.98	495-4033-2-ND	400	1237.60	B78476A8135A3
2	1CT:1CT	24-PIN SMD	13.64 x 11.94 x 6.22	10/100 Base T, PoE	495-4023-1-ND	6.63	5.97	4.98	495-4023-2-ND	400	1237.60	B78476A1889A3
4	1CT:1CT	40-PIN SMD	28.1 x 11.9 x 5.5	10/100 Base T	495-4021-1-ND	9.93	8.94	7.45	495-4021-2-ND	350	1621.90	B78476A8068A3
2	1CT:1CT	48-PIN SMD	27.81 x 12.19 x 7.24	1000 Base T, PoE	495-4031-1-ND	13.23	11.91	9.93	495-4031-2-ND	300	1852.20	B78476A8066A3
4	1CT:1CT	48-PIN SMD	28.71 x 12.19 x 7.24	10/100 Base T, PoE	495-4024-1-ND	9.93	8.94	7.45	495-4024-2-ND	300	1390.20	B78476A8246A3
2	1CT:1CT	50-PIN SMD	27.69 x 7.29 x 8.41	1000 Base T	495-4029-1-ND	9.93	8.94	7.45	495-4029-2-ND	350	1621.90	B78476A8250A3
2	1CT:1CT	50-PIN SMD	27.69 x 7.29 x 8.41	1000 Base T, Extended Temperature	495-4034-1-ND	9.93	8.94	7.45	495-4034-2-ND	350	1621.90	B78476A8252A3

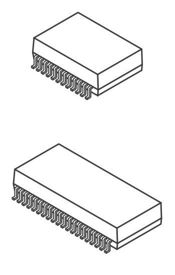

Current Sense Transformers

Features: • Very low DC resistance • Different turns ratios • Very small package
Applications: • Switching power supplies • Feedback control • Overload sensing • Load drop shut down detection
Specifications: • Test voltage

Fig.	Minimum Inductance (µH)	Turns Ratio Np : Ns	Maximum DC Resistance (mΩ) Primary	Secondary	Sensed Current (A)	Vtest (VAC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
1	33	1 : 20	2.5	320	7	360	495-4035-1-ND	4.26	3.84	3.20	495-4035-2-ND	1,200	1989.00/M	B82801A333A20
	74	1 : 30	2.5	800	7	360	495-4036-1-ND	4.26	3.84	3.20	495-4036-2-ND	1,200	1989.00/M	B82801A743A30
	132	1 : 40	2.5	1,300	7	360	495-4037-1-ND	4.26	3.84	3.20	495-4037-2-ND	1,200	1989.00/M	B82801A134A40
	205	1 : 50	2.5	2,200	7	360	495-4038-1-ND	4.26	3.84	3.20	495-4038-2-ND	1,200	1989.00/M	B82801A214A50
	295	1 : 60	2.5	3,600	7	360	495-4039-1-ND	4.26	3.84	3.20	495-4039-2-ND	600	1193.40	B82801A304A60
	820	1 : 100	2.5	8,700	7	360	495-4040-1-ND	4.26	3.84	3.20	495-4040-2-ND	1,200	1989.00/M	B82801A824A100
	1,280	1 : 125	2.5	13,000	7	360	495-4041-1-ND	4.26	3.84	3.20	495-4041-2-ND	600	1193.40	B82801A135A125
2	80	1 : 20	0.8	400	20	500	495-4043-1-ND	2.74	2.47	2.06	495-4043-2-ND	900	1152.00	B82801B803A20
	180	1 : 30	0.8	870	20	500	495-4044-1-ND	2.74	2.47	2.06	495-4044-2-ND	900	1152.00	B82801B184A30
	320	1 : 40	0.8	1,140	20	500	495-4045-1-ND	2.74	2.47	2.06	495-4045-2-ND	900	1152.00	B82801B324A40
	500	1 :50	0.8	1,500	20	500	495-4046-1-ND	2.74	2.47	2.06	495-4046-2-ND	900	1152.00	B82801B504A50
	720	1 : 60	0.8	1,980	20	500	495-4047-1-ND	2.74	2.47	2.06	495-4047-2-ND	900	1152.00	B82801B724A60
	980	1 : 70	0.8	4,750	20	500	495-4048-1-ND	2.74	2.47	2.06	495-4048-2-ND	900	1152.00	B82801B984A70
	2,000	1 : 100	0.8	5,500	20	500	495-4042-1-ND	2.74	2.47	2.06	495-4042-2-ND	900	1152.00	B82801B205A100
	3,000	1 : 125	0.8	6,500	20	500	495-4049-1-ND	2.74	2.47	2.06	495-4049-2-ND	900	1152.00	B82801B305A125

Fig. 1

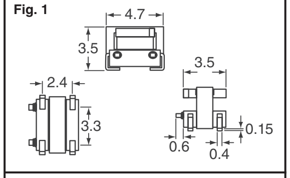

Fig. 2

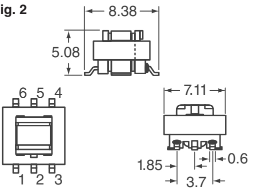

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

API Delevan

Coils and Inductors

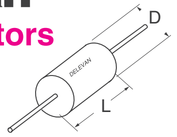

Series 1025 Molded Unshielded RF Coils

Operating Temperature Range: -55°C ~ 125°C (Phenolic Core), -55°C ~ 105°C (Iron and Ferrite Core) **Maximum Power Dissipation @ 90°C:** .21W (Phenolic Core), .09W (Iron Core), .073W (Ferrite Core)

Dimensions – Inch (mm)		Lead Size AWG #24 (TCW)	Lead Length Inch (mm)
L	D		
.250 (6.35)	.095 (2.41)	.020 (.51)	1.5 (38.1)

Induc-tance (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each			API Delevan Part No.
					1	10	100	
Series 1025 Phenolic Core (LT4K)								
.10	40	25	1380	DN7708-ND◆	.77	.66	.44	1025R-94K
.33	30	25	830	DN7677-ND◆	.77	.66	.44	1025R-08K
.39	30	25	710	DN2510-ND	.77	.66	.44	1025-10K
.39	30	25	710	DN7678-ND◆	.77	.66	.44	1025R-10K
.47	30	25	660	DN7679-ND◆	.77	.66	.44	1025R-12K
.56	30	25	550	DN7680-ND◆	.77	.66	.44	1025R-14K
.68	28	25	500	DN7681-ND◆	.77	.66	.44	1025R-16K
.82	28	25	420	DN7682-ND◆	.77	.66	.44	1025R-18K
1.0	25	25	390	DN7683-ND◆	.77	.66	.44	1025R-20K
Series 1025 Iron Core (LT10K) — RoHS Compliant								
1.2	25	7.9	620	DN7684-ND	.77	.66	.44	1025R-22K
1.5	28	7.9	560	DN7685-ND	.77	.66	.44	1025R-24K
2.2	30	7.9	415	DN7686-ND	.77	.66	.44	1025R-28K
2.7	37	7.9	355	DN7687-ND	.77	.66	.44	1025R-30K
3.3	45	7.9	285	DN7688-ND	.77	.66	.44	1025R-32K
4.7	45	7.9	239	DN7689-ND	.77	.66	.44	1025R-36K
5.6	50	7.9	195	DN7690-ND	.77	.66	.44	1025R-38K
6.8	50	7.9	185	DN7691-ND	.77	.66	.44	1025R-40K
8.2	55	7.9	160	DN7692-ND	.77	.66	.44	1025R-42K
10	55	7.9	144	DN7693-ND	.77	.66	.44	1025R-44K
12	45	2.5	160	DN7694-ND	.77	.66	.44	1025R-46K
22	50	2.5	144	DN7695-ND	.77	.66	.44	1025R-52K
27	50	2.5	140	DN7696-ND	.77	.66	.44	1025R-54K
Series 1025 Ferrite (LT10K)								
33	45	2.5	130	DN7697-ND◆	.98	.84	.56	1025R-56K
47	45	2.5	110	DN7699-ND◆	.98	.84	.56	1025R-60K
100	50	2.5	84	DN7700-ND◆	.98	.84	.56	1025R-68K
150	30	.79	61	DN7701-ND◆	.98	.84	.56	1025R-72K
180	30	.79	57	DN7702-ND◆	.98	.84	.56	1025R-74K
220	30	.79	52	DN7703-ND◆	.98	.84	.56	1025R-76K
270	30	.79	47	DN2578-ND	1.23	1.05	.70	1025-78K
470	30	.79	36	DN7705-ND◆	1.23	1.05	.70	1025R-84K
560	30	.79	35	DN7706-ND◆	1.23	1.05	.70	1025R-86K
1,000	30	.79	28	DN7707-ND◆	1.23	1.05	.70	1025R-92K

◆ *RoHS Compliant*

Series 1641 Molded Shielded RF Coils

Operating Temperature Range: -55°C ~ 105°C, **Maximum Power Dissipation @ 90°C:** .11W

Dimensions – Inch (mm)		Lead Size AWG #22 (TCW)	Lead Length Inch (mm)
L	D		
.410 (10.41)	.162 (4.11)	.025" (.64mm)	1.44 (36.58)

Induc-tance (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each			API Delevan Part No.
					1	10	100	
Series 1641 — Phenolic Core Iron Sleeve (LT10K)								
.10	50	25	1830	DN42075-ND◆	1.37	1.17	.78	1641R-101K
.18	50	25	1330	DN41181-ND	1.37	1.17	.78	1641-181K
.22	49	25	1120	DN42087-ND◆	1.37	1.17	.78	1641R-221K
.39	44	25	680	DN42095-ND◆	1.37	1.17	.78	1641R-391K
.47	44	25	580	DN42099-ND◆	1.37	1.17	.78	1641R-471K
.56	43	25	505	DN42103-ND◆	1.37	1.17	.78	1641R-561K
.68	42	25	430	DN42107-ND◆	1.37	1.17	.78	1641R-681K
Series 1641 — Iron Core Iron Sleeve (LT10K)								
1.0	44	25	1090	DN42076-ND◆	1.37	1.17	.78	1641R-102K
1.8	44	7.9	775	DN41182-ND	1.37	1.17	.78	1641-182K
1.8	44	7.9	775	DN42084-ND◆	1.37	1.17	.78	1641R-182K
3.3	44	7.9	490	DN42092-ND◆	1.37	1.17	.78	1641R-332K
4.7	44	7.9	390	DN42100-ND◆	1.37	1.17	.78	1641R-472K
5.6	44	7.9	340	DN42104-ND◆	1.37	1.17	.78	1641R-562K
6.8	50	7.9	285	DN42108-ND◆	1.37	1.17	.78	1641R-682K
10	50	7.9	228	DN42077-ND◆	1.37	1.17	.78	1641R-103K
12	55	2.5	205	DN41123-ND	1.37	1.17	.78	1641-123K
Series 1641 Ferrite Core Ferrite Sleeve (LT10K) — RoHS Compliant								
15	45	2.5	325	DN42082-ND	1.37	1.17	.78	1641R-153K
18	45	2.5	305	DN42085-ND	1.37	1.17	.78	1641R-183K
22	45	2.5	295	DN42089-ND	1.37	1.17	.78	1641R-223K
27	45	2.5	265	DN42091-ND	1.37	1.17	.78	1641R-273K
33	45	2.5	248	DN42093-ND	1.37	1.17	.78	1641R-333K
39	50	2.5	209	DN42097-ND	1.37	1.17	.78	1641R-393K
47	50	2.5	200	DN42101-ND	1.37	1.17	.78	1641R-473K
56	50	2.5	194	DN42105-ND	1.37	1.17	.78	1641R-563K
68	50	2.5	176	DN42109-ND	1.37	1.17	.78	1641R-683K
100	50	2.5	164	DN42078-ND	1.51	1.29	.86	1641R-104K
120	55	.79	153	DN42080-ND	1.51	1.29	.86	1641R-124K
180	55	.79	138	DN42086-ND	1.51	1.29	.86	1641R-184K
220	55	.79	130	DN42090-ND	1.51	1.29	.86	1641R-224K
330	55	.79	115	DN42094-ND	1.51	1.29	.86	1641R-334K
390	60	.79	107	DN42098-ND	1.51	1.29	.86	1641R-394K
470	60	.79	94	DN42102-ND	1.51	1.29	.86	1641R-474K
1,000	60	.79	70	DN42079-ND	1.51	1.29	.86	1641R-105K

◆ *RoHS Compliant*

Series 2474 Power Inductors

Mechanical Configuration: Units are axial leaded for printed circuit mounting, encapsulated in an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation @ 85°C:** .50W **Inductance:** Measured at 1V with no DC current

Dimensions – Inch (mm)		Lead Size AWG #20 (TCW)	Lead Length Inch (mm)
L	D		
.740 (18.80)	.240 (6.10)	.032" (.81mm)	1.44 (36.58)

Induc-tance (µH)	Max. DC Resist. (Ω)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each			API Delevan Part No.
				1	10	100	
Series 2474 Ferrite Core							
1.0	0.009	6.27	DN7710-ND◆	2.98	2.55	1.70	2474R-01L
1.5	0.011	5.67	DN7711-ND◆	2.98	2.55	1.70	2474R-03L
2.2	0.013	5.22	DN7712-ND◆	2.98	2.55	1.70	2474R-05L
4.7	0.022	4.01	DN7714-ND◆	2.98	2.55	1.70	2474R-09L
6.8	0.026	3.69	DN7715-ND◆	2.98	2.55	1.70	2474R-11L
8.2	0.028	3.55	DN7716-ND◆	2.98	2.55	1.70	2474R-12L
10	0.033	3.27	DN7717-ND◆	2.98	2.55	1.70	2474R-13L
12	0.037	3.09	DN7718-ND◆	2.98	2.55	1.70	2474R-14L
15	0.040	2.97	DN7719-ND◆	2.98	2.55	1.70	2474R-15L
18	0.044	2.84	DN7720-ND◆	2.98	2.55	1.70	2474R-16L
22	0.050	2.66	DN7721-ND◆	2.98	2.55	1.70	2474R-17L
27	0.070	2.25	DN7722-ND◆	2.98	2.55	1.70	2474R-18L
33	0.075	2.17	DN7723-ND◆	2.98	2.55	1.70	2474R-19L
39	0.084	2.05	DN7724-ND◆	2.98	2.55	1.70	2474R-20L
56	0.130	1.65	DN7726-ND◆	2.98	2.55	1.70	2474R-22L
68	0.145	1.56	DN7727-ND◆	2.98	2.55	1.70	2474R-23L
100	0.208	1.30	DN7729-ND◆	2.98	2.55	1.70	2474R-25L
120	0.283	1.12	DN7730-ND◆	2.98	2.55	1.70	2474R-26L
180	0.362	0.99	DN7731-ND◆	2.98	2.55	1.70	2474R-28L
220	0.505	0.84	DN7732-ND◆	2.98	2.55	1.70	2474R-29L
270	0.557	0.80	DN7430-ND	2.98	2.55	1.70	2474-30L
330	0.650	0.74	DN7733-ND◆	2.98	2.55	1.70	2474R-31L
390	0.770	0.68	DN7432-ND	2.98	2.55	1.70	2474-32L
470	1.03	0.59	DN7734-ND◆	2.98	2.55	1.70	2474R-33L
560	1.14	0.56	DN7735-ND◆	2.98	2.55	1.70	2474R-34L
680	1.50	0.49	DN7736-ND◆	2.98	2.55	1.70	2474R-35L
1,000	2.30	0.39	DN7737-ND◆	3.61	3.09	2.06	2474R-37L
1,800	4.00	0.30	DN7440-ND	3.61	3.09	2.06	2474-40L
2,200	4.40	0.28	DN7738-ND◆	3.61	3.09	2.06	2474R-41L
2,700	5.80	0.25	DN7767-ND◆	2.63	2.25	1.50	2474R-42L
5,600	11.2	0.18	DN7446-ND	3.61	3.09	2.06	2474-46L
8,200	20.8	0.13	DN7448-ND	3.61	3.09	2.06	2474-48L
15,000	36.0	0.10	DN7451-ND	3.61	3.09	2.06	2474-51L
18,000	40.0	0.09	DN7452-ND	3.61	3.09	2.06	2474-52L

◆ *RoHS Compliant*

Series 4590 High Current Filter Inductors

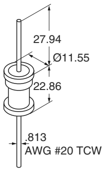

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. High saturation bobbin allows for high inductance with low DCR. High resistivity core offers very high parallel resistance, resulting in maximum coil performance. **Operating Temperature:** -55° ~ 125°C (-55° ~ 85°C @ full rated current) **Maximum Power Dissipation @ 85°C:** .70W **Dielectric Withstanding Voltage:** 2500VRMS

Nom. Induct. ±10% (µH)	Max. DC Resist. (Ω)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each			API Delevan Part No.
				1	10	100	
3.9	0.007	9.75	DN4495-ND	2.63	2.25	1.50	4590-392K
3.9	0.007	9.75	DN7769-ND◆	2.63	2.25	1.50	4590R-392K
4.7	0.008	9.11	DN7773-ND◆	2.63	2.25	1.50	4590R-472K
5.6	0.011	7.77	DN7777-ND◆	2.63	2.25	1.50	4590R-562K
10	0.016	6.44	DN7748-ND◆	2.63	2.25	1.50	4590R-103K
15	0.020	5.76	DN7756-ND◆	2.63	2.25	1.50	4590R-153K
22	0.024	5.26	DN7760-ND◆	2.63	2.25	1.50	4590R-223K
27	0.025	5.15	DN7764-ND◆	2.63	2.25	1.50	4590R-273K
33	0.028	4.87	DN7766-ND◆	2.63	2.25	1.50	4590R-333K
39	0.031	4.87	DN4507-ND	2.63	2.25	1.50	4590-393K
47	0.034	4.45	DN7774-ND◆	2.63	2.25	1.50	4590R-473K
56	0.043	3.93	DN7778-ND◆	2.63	2.25	1.50	4590R-563K
68	0.059	3.35	DN7782-ND◆	2.63	2.25	1.50	4590R-683K
82	0.066	3.17	DN7785-ND◆	2.63	2.25	1.50	4590R-823K
100	0.084	2.81	DN7749-ND◆	2.63	2.25	1.50	4590R-104K
120	0.113	2.43	DN7753-ND◆	2.63	2.25	1.50	4590R-124K
150	0.129	2.27	DN7757-ND◆	2.63	2.25	1.50	4590R-154K
220	0.162	2.02	DN7761-ND◆	2.63	2.25	1.50	4590R-224K
270	0.226	1.71	DN7765-ND◆	2.63	2.25	1.50	4590R-274K
330	0.257	1.61	DN7767-ND◆	2.63	2.25	1.50	4590R-334K
390	0.288	1.52	DN7771-ND◆	2.63	2.25	1.50	4590R-394K
470	0.393	1.30	DN7775-ND◆	2.63	2.25	1.50	4590R-474K
560	0.504	1.15	DN4521-ND	2.63	2.25	1.50	4590-564K
560	0.504	1.15	DN7779-ND◆	2.63	2.25	1.50	4590R-564K
680	0.570	1.08	DN7783-ND◆	2.63	2.25	1.50	4590R-684K
820	0.643	1.01	DN7786-ND◆	2.63	2.25	1.50	4590R-824K
1,000	0.844	0.89	DN7750-ND◆	2.87	2.46	1.64	4590R-105K
1,200	0.977	0.82	DN4525-ND	2.87	2.46	1.64	4590-125K
1,200	0.977	0.82	DN7754-ND◆	2.87	2.46	1.64	4590R-125K
1,500	1.18	0.75	DN7758-ND◆	2.87	2.46	1.64	4590R-155K
2,200	1.76	0.61	DN7762-ND◆	2.87	2.46	1.64	4590R-225K
3,300	2.53	0.51	DN7768-ND◆	2.87	2.46	1.64	4590R-335K
3,900	2.84	0.48	DN7772-ND◆	2.87	2.46	1.64	4590R-395K
4,700	3.79	0.41	DN7776-ND◆	2.87	2.46	1.64	4590R-475K
5,600	4.24	0.39	DN7780-ND◆	2.87	2.46	1.64	4590R-565K
6,800	5.75	0.34	DN4534-ND	2.87	2.46	1.64	4590-685K
6,800	5.75	0.34	DN7784-ND◆	2.87	2.46	1.64	4590R-685K
8,200	6.44	0.32	DN7787-ND◆	2.87	2.46	1.64	4590R-825K
10,000	7.30	0.30	DN7751-ND◆	2.87	2.46	1.64	4590R-106K
15,000	10.7	0.25	DN7759-ND◆	2.87	2.46	1.64	4590R-156K
22,000	18.0	0.19	DN7763-ND◆	2.87	2.46	1.64	4590R-226K
100,000	76.0	0.09	DN7752-ND◆	2.87	2.46	1.64	4590R-107K

◆ *RoHS Compliant*

(Continued)

API Delevan Coils and Inductors *(Cont.)*

Series 1008 Unshielded Surface Mount Inductors

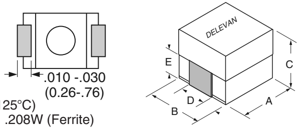

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C: .169W (Phenolic), .208W (Ferrite)

Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1008 Phenolic Core — K Tolerance, ±10%										
.010	50	40	1562	DN42005CT-ND◆	2.56	2.44	1.59	DN42005TR-ND◆	472.75	1008R-100K
.015	50	40	1381	DN08150CT-ND	2.56	2.44	1.59	DN08150TR-ND	472.75	1008-150K
.022	50	35	1235	DN42013CT-ND◆	2.56	2.44	1.59	DN42013TR-ND◆	472.75	1008R-220K
.027	50	35	1164	DN08270CT-ND	2.56	2.44	1.59	DN08270TR-ND	472.75	1008-270K
.033	50	30	1105	DN08330CT-ND	2.56	2.44	1.59	DN08330TR-ND	472.75	1008-330K
.047	50	30	1008	DN08470CT-ND	2.56	2.44	1.59	—	—	1008-470K
.047	50	30	1008	DN42019CT-ND◆	2.56	2.44	1.59	DN42019TR-ND◆	472.75	1008R-470K
.056	50	25	847	DN08560CT-ND	2.56	2.44	1.59	DN08560TR-ND	472.75	1008-560K
.068	50	25	823	DN08680CT-ND	2.56	2.44	1.59	DN08680TR-ND	472.75	1008-680K
.068	50	25	823	DN42024CT-ND◆	2.56	2.44	1.59	DN42024TR-ND◆	472.75	1008R-680K
.082	50	25	801	DN42026CT-ND◆	2.56	2.44	1.59	DN42026TR-ND◆	472.75	1008R-820K
.100	25	15	728	DN42006CT-ND◆	2.56	2.44	1.59	DN42006TR-ND◆	472.75	1008R-101K
Series 1008 Ferrite Core — K Tolerance, ±10%										
.12	25	40	1225	DN08121CT-ND	2.56	2.44	1.59	DN08121TR-ND	472.75	1008-121K
.15	25	40	1168	DN08151CT-ND	2.56	2.44	1.59	—	—	1008-151K
.15	25	40	1168	DN42010CT-ND◆	2.56	2.44	1.59	DN42010TR-ND◆	472.75	1008R-151K
.22	25	40	1055	DN08221CT-ND	2.56	2.44	1.59	—	—	1008-221K
.22	25	40	1055	DN42014CT-ND◆	2.56	2.44	1.59	DN42014TR-ND◆	472.75	1008R-221K
.47	25	40	846	DN08471CT-ND	2.56	2.44	1.59	—	—	1008-471K
.47	25	40	846	DN42020CT-ND◆	2.56	2.44	1.59	DN42020TR-ND◆	472.75	1008R-471K
.56	25	40	808	DN08561CT-ND	2.56	2.44	1.59	DN08561TR-ND	472.75	1008-561K
.68	25	40	760	DN42025CT-ND◆	2.56	2.44	1.59	DN42025TR-ND◆	472.75	1008R-681K
.82	25	40	708	DN08821CT-ND	2.56	2.44	1.59	DN08821TR-ND	472.75	1008-821K
Series 1008 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	30	685	DN42007JCT-ND◆	2.56	2.44	1.59	DN42007JTR-ND◆	472.75	1008R-102J
1.2	7.9	30	591	DN08122JCT-ND	2.56	2.44	1.59	DN08122JTR-ND	472.75	1008-122J
1.2	7.9	30	591	DN42009JCT-ND◆	2.56	2.44	1.59	DN42009JTR-ND◆	472.75	1008R-122J
1.5	7.9	30	548	DN08152JCT-ND	2.56	2.44	1.59	DN08152JTR-ND	472.75	1008-152J
1.5	7.9	30	548	DN42011JCT-ND◆	2.56	2.44	1.59	DN42011JTR-ND◆	472.75	1008R-152J
2.2	7.9	30	433	DN42015JCT-ND◆	2.56	2.44	1.59	DN42015JTR-ND◆	472.75	1008R-222J
3.3	7.9	30	398	DN42018JCT-ND◆	2.56	2.44	1.59	DN42018JTR-ND◆	472.75	1008R-332J
4.7	7.9	30	334	DN42021JCT-ND◆	2.56	2.44	1.59	DN42021JTR-ND◆	472.75	1008R-472J
5.6	7.9	30	312	DN08562JCT-ND	2.56	2.44	1.59	DN08562JTR-ND	472.75	1008-562J
5.6	7.9	30	312	DN42023JCT-ND◆	2.56	2.44	1.59	—	—	1008R-562J
10	7.9	30	245	DN42008JCT-ND◆	2.56	2.44	1.59	DN42008JTR-ND◆	472.75	1008R-103J
15	2.5	30	194	DN08153JCT-ND	2.56	2.44	1.59	DN08153JTR-ND	472.75	1008-153J
15	2.5	30	194	DN42012JCT-ND◆	2.56	2.44	1.59	DN42012JTR-ND◆	472.75	1008R-153J
18	2.5	30	173	DN08183JCT-ND	2.56	2.44	1.59	—	—	1008-183J
22	2.5	30	158	DN42016JCT-ND◆	2.56	2.44	1.59	DN42016JTR-ND◆	472.75	1008R-223J
47	2.5	30	120	DN42022JCT-ND◆	2.56	2.44	1.59	DN42022JTR-ND◆	472.75	1008R-473J

◆ ***RoHS Compliant***

Series S1008 Shielded Surface Mount Inductors

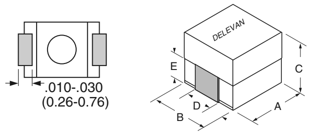

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .157W

Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1008 Ferrite Core, ±10%										
.10	25	40	1120	DN7879CT-ND◆	2.94	2.80	1.82	DN7879TR-ND◆	542.50	S1008R-101K
.15	25	40	1015	DN1003CT-ND	2.94	2.80	1.82	DN1003TR-ND	542.50	S1008-151K
.33	25	40	865	DN7891CT-ND◆	2.94	2.80	1.82	DN7891TR-ND◆	542.50	S1008R-331K
.39	25	40	840	DN1008CT-ND	2.94	2.80	1.82	DN1008TR-ND	542.50	S1008-391K
.47	25	40	815	DN7894CT-ND◆	2.94	2.80	1.82	DN7894TR-ND◆	542.50	S1008R-471K
.56	25	40	790	DN1010CT-ND	2.94	2.80	1.82	—	—	S1008-561K
.56	25	40	790	DN7897CT-ND◆	2.94	2.80	1.82	DN7897TR-ND◆	542.50	S1008R-561K
.68	25	40	750	DN1012CT-ND	2.94	2.80	1.82	—	—	S1008-681K
.68	25	40	750	DN7898CT-ND◆	2.94	2.80	1.82	DN7898TR-ND◆	542.50	S1008R-681K
.82	25	40	715	DN1014CT-ND	2.94	2.80	1.82	DN1014TR-ND	542.50	S1008-821K
.82	25	40	715	DN7900CT-ND◆	2.94	2.80	1.82	DN7900TR-ND◆	542.50	S1008R-821K
.91	25	40	685	DN7902CT-ND◆	2.94	2.80	1.82	DN7902TR-ND◆	542.50	S1008R-911K
1.0	7.9	30	670	DN7880CT-ND◆	2.94	2.80	1.82	DN7880TR-ND◆	542.50	S1008R-102K
1.2	7.9	30	625	DN1017CT-ND	2.94	2.80	1.82	DN1017TR-ND	542.50	S1008-122K
1.2	7.9	30	625	DN7882CT-ND◆	2.94	2.80	1.82	DN7882TR-ND◆	542.50	S1008R-122K
1.5	7.9	30	545	DN7884CT-ND◆	2.94	2.80	1.82	DN7884TR-ND◆	542.50	S1008R-152K
2.2	7.9	30	375	DN1020CT-ND	2.94	2.80	1.82	DN1020TR-ND	542.50	S1008-222K
2.2	7.9	30	375	DN7887CT-ND◆	2.94	2.80	1.82	DN7887TR-ND◆	542.50	S1008R-222K
2.7	7.9	30	365	DN7889CT-ND◆	2.94	2.80	1.82	DN7889TR-ND◆	542.50	S1008R-272K
3.3	7.9	30	355	DN7892CT-ND◆	2.94	2.80	1.82	DN7892TR-ND◆	542.50	S1008R-332K
4.7	7.9	30	305	DN7895CT-ND◆	2.94	2.80	1.82	DN7895TR-ND◆	542.50	S1008R-472K
6.8	7.9	30	250	DN7899CT-ND◆	2.94	2.80	1.82	DN7899TR-ND◆	542.50	S1008R-682K
8.2	7.9	30	240	DN7901CT-ND◆	2.94	2.80	1.82	DN7901TR-ND◆	542.50	S1008R-822K
10	7.9	30	230	DN7881CT-ND◆	2.94	2.80	1.82	DN7881TR-ND◆	542.50	S1008R-103K
12	2.5	30	220	DN1029CT-ND	2.94	2.80	1.82	DN1029TR-ND	542.50	S1008-123K
12	2.5	30	220	DN7883CT-ND◆	2.94	2.80	1.82	DN7883TR-ND◆	542.50	S1008R-123K
15	2.5	30	210	DN1030CT-ND	2.94	2.80	1.82	—	—	S1008-153K
15	2.5	30	210	DN7885CT-ND◆	2.94	2.80	1.82	DN7885TR-ND◆	542.50	S1008R-153K
18	2.5	30	200	DN1031CT-ND	2.94	2.80	1.82	—	—	S1008-183K
18	2.5	30	200	DN7886CT-ND◆	2.94	2.80	1.82	DN7886TR-ND◆	542.50	S1008R-183K
22	2.5	30	170	DN7888CT-ND◆	2.94	2.80	1.82	DN7888TR-ND◆	542.50	S1008R-223K
27	2.5	30	160	DN1033CT-ND	2.94	2.80	1.82	DN1033TR-ND	542.50	S1008-273K
27	2.5	30	160	DN7890CT-ND◆	2.94	2.80	1.82	DN7890TR-ND◆	542.50	S1008R-273K
33	2.5	30	125	DN7893CT-ND◆	2.94	2.80	1.82	DN7893TR-ND◆	542.50	S1008R-333K
47	2.5	30	110	DN7896CT-ND◆	2.94	2.80	1.82	DN7896TR-ND◆	542.50	S1008R-473K

S1008RKIT-ND◆ (S1008RKIT) **Series S1008 Inductor Kit**
5 each of 36 values (0.1µH to 47.0µH), 180 total pieces **$308.00**

◆ ***RoHS Compliant***

Series 1210 Unshielded Surface Mount Inductors

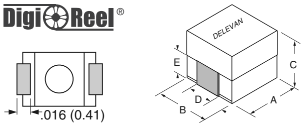

Operating Temperature Range:
-67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C Ambient:
.168W (Phenolic), .287W (Iron and Ferrite)

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1210 Phenolic Core, ±10%										
.010	50	30	966	DN10100CT-ND	.92	.88	.58	DN10100TR-ND	170.50	1210-100K
.010	50	30	966	DN42027CT-ND◆	.92	.88	.58	DN42027TR-ND◆	170.50	1210R-100K
.015	50	30	871	DN42034CT-ND◆	.92	.88	.58	DN42034TR-ND◆	170.50	1210R-150K
.018	50	30	821	DN10180CT-ND	.92	.88	.58	—	—	1210-180K
.022	50	30	779	DN42048CT-ND◆	.92	.88	.58	DN42048TR-ND◆	170.50	1210R-220K
.033	50	30	711	DN10330CT-ND	.92	.88	.58	—	—	1210-330K
.033	50	30	711	DN42055CT-ND◆	.92	.88	.58	DN42055TR-ND◆	170.50	1210R-330K
.039	50	30	670	DN10390CT-ND	.92	.88	.58	—	—	1210-390K
.047	50	30	636	DN42061CT-ND◆	.92	.88	.58	DN42061TR-ND◆	170.50	1210R-470K
.056	50	30	606	DN10560CT-ND	.92	.88	.58	—	—	1210-560K
.068	50	30	580	DN42068CT-ND◆	.92	.88	.58	DN42068TR-ND◆	170.50	1210R-680K
.082	50	30	551	DN10820CT-ND	.92	.88	.58	DN10820TR-ND	170.50	1210-820K
.082	50	30	551	DN42072CT-ND◆	.92	.88	.58	—	—	1210R-820K
Series 1210 Iron Core, ±10%										
.10	25	30	1018	DN42028CT-ND◆	.92	.88	.58	DN42028TR-ND◆	170.50	1210R-101K
.12	25	30	971	DN10121CT-ND	.92	.88	.58	DN10121TR-ND	170.50	1210-121K
.12	25	30	971	DN42032CT-ND◆	.92	.88	.58	DN42032TR-ND◆	170.50	1210R-121K
.15	25	30	910	DN10151CT-ND	.92	.88	.58	—	—	1210-151K
.15	25	30	910	DN42035CT-ND◆	.92	.88	.58	DN42035TR-ND◆	170.50	1210R-151K
.22	25	30	805	DN10221CT-ND	.92	.88	.58	DN10221TR-ND	170.50	1210-221K
.22	25	30	805	DN42049CT-ND◆	.92	.88	.58	DN42049TR-ND◆	170.50	1210R-221K
.27	25	30	759	DN42052CT-ND◆	.92	.88	.58	DN42052TR-ND◆	170.50	1210R-271K
.33	25	30	720	DN10331CT-ND	.92	.88	.58	—	—	1210-331K
.39	25	30	679	DN10391CT-ND	.92	.88	.58	—	—	1210-391K
.39	25	30	679	DN42058CT-ND◆	.92	.88	.58	DN42058TR-ND◆	170.50	1210R-391K
.47	25	30	644	DN42062CT-ND◆	.92	.88	.58	DN42062TR-ND◆	170.50	1210R-471K
.56	25	30	614	DN42065CT-ND◆	.92	.88	.58	DN42065TR-ND◆	170.50	1210R-561K
.68	25	30	588	DN42069CT-ND◆	.92	.88	.58	DN42069TR-ND◆	170.50	1210R-681K
.82	25	30	556	DN10821CT-ND	.92	.88	.58	—	—	1210-821K
.82	25	30	556	DN42073CT-ND◆	.92	.88	.58	DN42073TR-ND◆	170.50	1210R-821K
Series 1210 Ferrite Core, ±5%										
1.0	7.9	30	515	DN42029JCT-ND◆	1.05	1.00	.65	DN42029JTR-ND◆	193.75	1210R-102J
1.2	7.9	30	497	DN42033JCT-ND◆	1.05	1.00	.65	DN42033JTR-ND◆	193.75	1210R-122J
1.5	7.9	30	467	DN42036JCT-ND◆	1.05	1.00	.65	DN42036JTR-ND◆	193.75	1210R-152J
1.8	7.9	30	454	DN10182JCT-ND	1.05	1.00	.65	—	—	1210-182J
1.8	7.9	30	454	DN42046JCT-ND◆	1.05	1.00	.65	DN42046JTR-ND◆	193.75	1210R-182J
2.2	7.9	30	431	DN42050JCT-ND◆	1.05	1.00	.65	DN42050JTR-ND◆	193.75	1210R-222J
2.7	7.9	30	411	DN42053JCT-ND◆	1.05	1.00	.65	DN42053JTR-ND◆	193.75	1210R-272J

◆ ***RoHS Compliant***

(Continued)

API Delevan Coils and Inductors

Series 1210 Unshielded Surface Mount Inductors *(Cont.)*

Digi-Reel®

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
3.3	7.9	30	393	DN42143JCT-ND◆	1.05	1.00	.65	DN42143JTR-ND◆	193.75	1210R-332J
3.9	7.9	30	378	DN42059JCT-ND◆	1.05	1.00	.65	DN42059JTR-ND◆	193.75	1210R-392J
5.6	7.9	30	341	DN42066JCT-ND◆	1.05	1.00	.65	DN42066JTR-ND◆	193.75	1210R-562J
6.8	7.9	30	321	DN42070JCT-ND◆	1.05	1.00	.65	DN42070JTR-ND◆	193.75	1210R-682J
8.2	7.9	30	305	DN42074JCT-ND◆	1.05	1.00	.65	DN42074JTR-ND◆	193.75	1210R-822J
10	7.9	30	297	DN42030JCT-ND◆	1.05	1.00	.65	DN42030JTR-ND◆	193.75	1210R-103J
15	2.5	30	257	DN10153JCT-ND	1.05	1.00	.65	—	—	1210-153J
15	2.5	30	257	DN42037JCT-ND◆	1.05	1.00	.65	DN42037JTR-ND◆	193.75	1210R-153J
18	2.5	30	237	DN42047JCT-ND◆	1.05	1.00	.65	DN42047JTR-ND◆	193.75	1210R-183J
22	2.5	30	224	DN42051JCT-ND◆	1.05	1.00	.65	DN42051JTR-ND◆	193.75	1210R-223J
27	2.5	30	193	DN42054JCT-ND◆	1.05	1.00	.65	DN42054JTR-ND◆	193.75	1210R-273J
33	2.5	30	182	DN42057JCT-ND◆	1.05	1.00	.65	DN42057JTR-ND◆	193.75	1210R-333J
39	2.5	30	170	DN42060JCT-ND◆	1.05	1.00	.65	DN42060JTR-ND◆	193.75	1210R-393J
47	2.5	30	163	DN42064JCT-ND◆	1.05	1.00	.65	DN42064JTR-ND◆	193.75	1210R-473J
56	2.5	30	152	DN42067JCT-ND◆	1.05	1.00	.65	DN42067JTR-ND◆	193.75	1210R-563J
68	2.5	30	144	DN10683JCT-ND	1.05	1.00	.65	—	—	1210-683J
68	2.5	30	144	DN42071JCT-ND◆	1.05	1.00	.65	DN42071JTR-ND◆	193.75	1210R-683J
100	2.5	30	120	DN42031JCT-ND◆	1.05	1.00	.65	DN42031JTR-ND◆	193.75	1210R-104J

1210RKIT-ND◆ (1210RKIT) **Series 1210 Inductor Kit**
5 each of 58 values (0.0018µH to 100.0µH), 290 total pieces..**$322.00**

◆ ***RoHS Compliant***

Series S1210 Shielded Surface Mount Inductors

Digi-Reel®

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .266W (Iron), .224W (Ferrite)

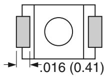

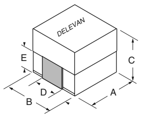

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1210 Iron Core, ±10%										
.10	25	40	1131	DN1050CT-ND	1.30	1.24	.81	DN1050TR-ND	240.25	S1210-101K
.10	25	40	1131	DN7903CT-ND◆	1.30	1.24	.81	DN7903TR-ND◆	240.25	S1210R-101K
.12	25	40	1062	DN7907CT-ND◆	1.30	1.24	.81	DN7907TR-ND◆	240.25	S1210R-121K
.15	25	40	979	DN1052CT-ND	1.30	1.24	.81	—	—	S1210-151K
.15	25	40	979	DN7909CT-ND◆	1.30	1.24	.81	DN7909TR-ND◆	240.25	S1210R-151K
.18	25	40	934	DN7912CT-ND◆	1.30	1.24	.81	DN7912TR-ND◆	240.25	S1210R-181K
.33	25	40	740	DN7918CT-ND◆	1.30	1.24	.81	DN7918TR-ND◆	240.25	S1210R-331K
.39	25	40	692	DN7921CT-ND◆	1.30	1.24	.81	DN7921TR-ND◆	240.25	S1210R-391K
.47	25	40	653	DN7924CT-ND◆	1.30	1.24	.81	DN7924TR-ND◆	240.25	S1210R-471K
.56	25	40	619	DN7927CT-ND◆	1.30	1.24	.81	DN7927TR-ND◆	240.25	S1210R-561K
.68	25	40	590	DN7929CT-ND◆	1.30	1.24	.81	DN7929TR-ND◆	240.25	S1210R-681K
.82	25	40	565	DN7931CT-ND◆	1.30	1.24	.81	DN7931TR-ND◆	240.25	S1210R-821K
Series S1210 Ferrite Core, ±10%										
1.0	7.9	40	635	DN7904CT-ND◆	1.30	1.24	.81	DN7904TR-ND◆	240.25	S1210R-102K
1.2	7.9	40	574	DN1063CT-ND	1.30	1.24	.81	DN1063TR-ND	240.25	S1210-122K
1.2	7.9	40	574	DN7908CT-ND◆	1.30	1.24	.81	DN7908TR-ND◆	240.25	S1210R-122K
1.5	7.9	40	532	DN7910CT-ND◆	1.30	1.24	.81	DN7910TR-ND◆	240.25	S1210R-152K
1.8	7.9	40	498	DN7913CT-ND◆	1.30	1.24	.81	DN7913TR-ND◆	240.25	S1210R-182K
2.2	7.9	40	470	DN7914CT-ND◆	1.30	1.24	.81	DN7914TR-ND◆	240.25	S1210R-222K
2.7	7.9	40	464	DN7916CT-ND◆	1.30	1.24	.81	DN7916TR-ND◆	240.25	S1210R-272K
3.3	7.9	40	449	DN7919CT-ND◆	1.30	1.24	.81	DN7919TR-ND◆	240.25	S1210R-332K
3.9	7.9	40	441	DN1069CT-ND	1.30	1.24	.81	DN1069TR-ND	240.25	S1210-392K
3.9	7.9	40	441	DN7922CT-ND◆	1.30	1.24	.81	DN7922TR-ND◆	240.25	S1210R-392K
4.7	7.9	40	402	DN7925CT-ND◆	1.30	1.24	.81	DN7925TR-ND◆	240.25	S1210R-472K
5.6	7.9	40	352	DN7928CT-ND◆	1.30	1.24	.81	DN7928TR-ND◆	240.25	S1210R-562K
6.8	7.9	40	328	DN7930CT-ND◆	1.30	1.24	.81	DN7930TR-ND◆	240.25	S1210R-682K
10	2.5	40	291	DN7905CT-ND◆	1.30	1.24	.81	DN7905TR-ND◆	240.25	S1210R-103K
15	2.5	40	254	DN7911CT-ND◆	1.30	1.24	.81	DN7911TR-ND◆	240.25	S1210R-153K
22	2.5	40	232	DN7915CT-ND◆	1.30	1.24	.81	DN7915TR-ND◆	240.25	S1210R-223K
27	2.5	40	201	DN7917CT-ND◆	1.30	1.24	.81	DN7917TR-ND◆	240.25	S1210R-273K
33	2.5	40	189	DN7920CT-ND◆	1.30	1.24	.81	DN7920TR-ND◆	240.25	S1210R-333K
39	2.5	40	179	DN1081CT-ND	1.30	1.24	.81	DN1081TR-ND	240.25	S1210-393K
39	2.5	40	179	DN7923CT-ND◆	1.30	1.24	.81	DN7923TR-ND◆	240.25	S1210R-393K
47	2.5	40	171	DN7926CT-ND◆	1.30	1.24	.81	DN7926TR-ND◆	240.25	S1210R-473K
100	2.5	40	127	DN7906CT-ND◆	1.30	1.24	.81	DN7906TR-ND◆	240.25	S1210R-104K

S1210RKIT-ND◆ (S1210RKIT) **Series S1210 Inductor Kit**
5 each of 37 values (0.10µH to 100.0µH), 185 total pieces..**$308.00**

◆ ***RoHS Compliant***

Series 1812 Unshielded Surface Mount Inductors

Digi-Reel®

Operating Temperature Range:
-67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C:
.278W (Iron and Ferrite), .210W (Phenolic)

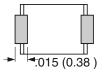

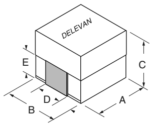

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.054 ~ .078 (1.37 ~ 1.98)	.066 (1.68)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1812 Iron Core, ±10%										
.12	25	30	818	DN12121CT-ND	.84	.80	.52	DN12121TR-ND	155.00	1812-121K
.18	25	30	757	DN12181CT-ND	.84	.80	.52	DN12181TR-ND	155.00	1812-181K
.22	25	30	708	DN42123CT-ND◆	.84	.80	.52	DN42123TR-ND◆	155.00	1812R-221K
.27	25	30	668	DN12271CT-ND	.84	.80	.52	DN12271TR-ND	155.00	1812-271K
.56	25	30	409	DN12561CT-ND	.84	.80	.52	—	—	1812-561K
.68	25	30	379	DN12681CT-ND	.84	.80	.52	DN12681TR-ND	155.00	1812-681K
Series 1812 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	50	634	DN42111JCT-ND◆	1.22	1.16	.76	DN42111JTR-ND◆	224.75	1812R-102J
1.2	7.9	50	604	DN42115JCT-ND◆	1.22	1.16	.76	DN42115JTR-ND◆	224.75	1812R-122J
1.5	7.9	50	578	DN42117JCT-ND◆	1.22	1.16	.76	DN42117JTR-ND◆	224.75	1812R-152J
1.8	7.9	50	556	DN42120JCT-ND◆	1.22	1.16	.76	DN42120JTR-ND◆	224.75	1812R-182J
2.2	7.9	50	535	DN12222JCT-ND	1.22	1.16	.76	DN12222JTR-ND	224.75	1812-222J
2.2	7.9	50	535	DN42124JCT-ND◆	1.22	1.16	.76	DN42124JTR-ND◆	224.75	1812R-222J
2.7	7.9	50	517	DN42127JCT-ND◆	1.22	1.16	.76	DN42127JTR-ND◆	224.75	1812R-272J
3.3	7.9	50	501	DN42130JCT-ND◆	1.22	1.16	.76	DN42130JTR-ND◆	224.75	1812R-332J
3.9	7.9	50	472	DN12392JCT-ND	1.22	1.16	.76	DN12392JTR-ND	224.75	1812-392J
3.9	7.9	50	472	DN42133JCT-ND◆	1.22	1.16	.76	DN42133JTR-ND◆	224.75	1812R-392J
4.7	7.9	50	448	DN42135JCT-ND◆	1.22	1.16	.76	DN42135JTR-ND◆	224.75	1812R-472J
5.6	7.9	50	427	DN42138JCT-ND◆	1.22	1.16	.76	DN42138JTR-ND◆	224.75	1812R-562J
8.2	7.9	50	375	DN42141JCT-ND◆	1.22	1.16	.76	DN42141JTR-ND◆	224.75	1812R-822J
10	7.9	50	354	DN42112JCT-ND◆	1.22	1.16	.76	DN42112JTR-ND◆	224.75	1812R-103J
12	2.5	50	317	DN42116JCT-ND◆	1.22	1.16	.76	DN42116JTR-ND◆	224.75	1812R-123J
15	2.5	50	283	DN12153JCT-ND	1.22	1.16	.76	—	—	1812-153J
15	2.5	50	283	DN42118JCT-ND◆	1.22	1.16	.76	DN42118JTR-ND◆	224.75	1812R-153J
18	2.5	50	268	DN12183JCT-ND	1.22	1.16	.76	DN12183JTR-ND	224.75	1812-183J
18	2.5	50	268	DN42121JCT-ND◆	1.22	1.16	.76	DN42121JTR-ND◆	224.75	1812R-183J
22	2.5	50	250	DN42125JCT-ND◆	1.22	1.16	.76	DN42125JTR-ND◆	224.75	1812R-223J
27	2.5	50	236	DN42128JCT-ND◆	1.22	1.16	.76	DN42128JTR-ND◆	224.75	1812R-273J
33	2.5	50	224	DN42131JCT-ND◆	1.22	1.16	.76	DN42131JTR-ND◆	224.75	1812R-333J
39	2.5	50	211	DN12393JCT-ND	1.22	1.16	.76	—	—	1812-393J
39	2.5	50	211	DN42134JCT-ND◆	1.22	1.16	.76	—	—	1812R-393J
47	2.5	50	200	DN42136JCT-ND◆	1.22	1.16	.76	DN42136JTR-ND◆	224.75	1812R-473J
56	2.5	50	191	DN42139JCT-ND◆	1.22	1.16	.76	DN42139JTR-ND◆	224.75	1812R-563J
82	2.5	50	169	DN12823JCT-ND	1.22	1.16	.76	DN12823JTR-ND	224.75	1812-823J
100	2.5	50	158	DN42113JCT-ND◆	1.22	1.16	.76	DN42113JTR-ND◆	224.75	1812R-104J
150	0.79	40	149	DN42119JCT-ND◆	1.22	1.16	.76	DN42119JTR-ND◆	224.75	1812R-154J
180	0.79	40	145	DN42122JCT-ND◆	1.22	1.16	.76	DN42122JTR-ND◆	224.75	1812R-184J
220	0.79	40	142	DN42126JCT-ND◆	1.22	1.16	.76	DN42126JTR-ND◆	224.75	1812R-224J
270	0.79	40	129	DN42129JCT-ND◆	1.22	1.16	.76	DN42129JTR-ND◆	224.75	1812R-274J
330	0.79	40	120	DN42132JCT-ND◆	1.22	1.16	.76	DN42132JTR-ND◆	224.75	1812R-334J
470	0.79	40	88	DN42137JCT-ND◆	1.22	1.16	.76	DN42137JTR-ND◆	224.75	1812R-474J
560	0.79	30	82	DN42140JCT-ND◆	1.22	1.16	.76	DN42140JTR-ND◆	224.75	1812R-564J
680	0.79	30	82	DN12684JCT-ND	1.22	1.16	.76	DN12684JTR-ND	224.75	1812-684J
820	0.79	30	67	DN12824JCT-ND	1.22	1.16	.76	—	—	1812-824J
820	0.79	30	67	DN42142JCT-ND◆	1.22	1.16	.76	DN42142JTR-ND◆	224.75	1812R-824J
1,000	0.79	30	55	DN42114JCT-ND◆	1.22	1.16	.76	DN42114JTR-ND◆	224.75	1812R-105J

1812RKIT-ND◆ (1812RKIT) **Series 1812 Inductor Kit**
5 each of 61 values (0.010µH to 1000.0µH), 305 total pieces..**$338.10**

◆ ***RoHS Compliant***

Series S1812 Shielded Surface Mount Inductors

Digi-Reel®

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .278W

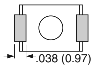

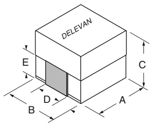

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.054 ~ .078 (1.37 ~ 1.98)	.066 (1.68)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1812 Iron Core, ±20%										
.56	25	40	735	DN1109CT-ND	1.51	1.44	.94	DN1109TR-ND	519.25	S1812-561M
.82	25	40	614	DN1111CT-ND	1.51	1.44	.94	DN1111TR-ND	519.25	S1812-821M
Series S1812 Ferrite Core, ±10%										
1.0	7.9	40	755	DN7932CT-ND◆	1.76	1.68	1.10	DN7932TR-ND◆	325.50	S1812R-102K

◆ ***RoHS Compliant***

(Continued)

API Delevan Coils and Inductors

Series S1812 Shielded Surface Mount Inductors *(Cont.)*

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.5	7.9	40	706	DN1114CT-ND	1.76	1.68	1.10	—	—	S1812-152K
2.2	7.9	40	658	DN7940CT-ND◆	1.76	1.68	1.10	DN7940TR-ND◆	325.50	S1812R-222K
3.3	7.9	40	534	DN7943CT-ND◆	1.76	1.68	1.10	DN7943TR-ND◆	325.50	S1812R-332K
3.9	7.9	40	487	DN7946CT-ND◆	1.76	1.68	1.10	DN7946TR-ND◆	325.50	S1812R-392K
4.7	7.9	40	471	DN1120CT-ND	1.76	1.68	1.10	DN1120TR-ND	325.50	S1812-472K
4.7	7.9	40	471	DN7947CT-ND◆	1.76	1.68	1.10	DN7947TR-ND◆	325.50	S1812R-472K
5.6	7.9	40	447	DN7950CT-ND◆	1.76	1.68	1.10	DN7950TR-ND◆	325.50	S1812R-562K
6.8	7.9	40	408	DN7953CT-ND◆	1.76	1.68	1.10	DN7953TR-ND◆	325.50	S1812R-682K
8.2	7.9	40	372	DN7956CT-ND◆	1.76	1.68	1.10	DN7956TR-ND◆	325.50	S1812R-822K
10	2.5	50	333	DN7933CT-ND◆	1.76	1.68	1.10	DN7933TR-ND◆	325.50	S1812R-103K
15	2.5	50	301	DN1126CT-ND	1.76	1.68	1.10	—	—	S1812-153K
15	2.5	50	301	DN7938CT-ND◆	1.76	1.68	1.10	DN7938TR-ND◆	325.50	S1812R-153K
22	2.5	50	277	DN7941CT-ND◆	1.76	1.68	1.10	DN7941TR-ND◆	325.50	S1812R-223K
33	2.5	50	258	DN7944CT-ND◆	1.76	1.68	1.10	DN7944TR-ND◆	325.50	S1812R-333K
47	2.5	50	242	DN7948CT-ND◆	1.76	1.68	1.10	DN7948TR-ND◆	325.50	S1812R-473K
56	2.5	50	235	DN7951CT-ND◆	1.76	1.68	1.10	DN7951TR-ND◆	325.50	S1812R-563K
68	2.5	50	215	DN1134CT-ND	1.76	1.68	1.10	—	—	S1812-683K
68	2.5	50	215	DN7954CT-ND◆	1.76	1.68	1.10	DN7954TR-ND◆	325.50	S1812R-683K
100	.79	40	169	DN7934CT-ND◆	1.76	1.68	1.10	DN7934TR-ND◆	325.50	S1812R-104K
120	.79	40	163	DN7936CT-ND◆	1.76	1.68	1.10	DN7936TR-ND◆	325.50	S1812R-124K
180	.79	40	153	DN1139CT-ND	1.76	1.68	1.10	DN1139TR-ND	325.50	S1812-184K
180	.79	40	153	DN7939CT-ND◆	1.76	1.68	1.10	DN7939TR-ND◆	325.50	S1812R-184K
220	.79	40	149	DN7942CT-ND◆	1.76	1.68	1.10	DN7942TR-ND◆	325.50	S1812R-224K
330	.79	40	129	DN7945CT-ND◆	1.76	1.68	1.10	DN7945TR-ND◆	325.50	S1812R-334K
390	.79	40	105	DN1143CT-ND	1.76	1.68	1.10	DN1143TR-ND	325.50	S1812-394K
470	.79	40	91	DN7949CT-ND◆	1.76	1.68	1.10	DN7949TR-ND◆	325.50	S1812R-474K
560	.79	40	84	DN7952CT-ND◆	1.76	1.68	1.10	DN7952TR-ND◆	325.50	S1812R-564K
680	.79	40	79	DN1146CT-ND	1.76	1.68	1.10	DN1146TR-ND	325.50	S1812-684K
680	.79	40	79	DN7955CT-ND◆	1.76	1.68	1.10	DN7955TR-ND◆	325.50	S1812R-684K
1,000	.79	40	60	DN7935CT-ND◆	1.76	1.68	1.10	DN7935TR-ND◆	325.50	S1812R-105K

S1812RKIT-ND◆ (S1812RKIT) **Series S1812 Inductor Kit**
5 each of 49 values (0.10µH to 1000.0µH), 245 total pieces **$323.40**

◆ ***RoHS Compliant***

Series P1812 Surface Mount Power Inductors

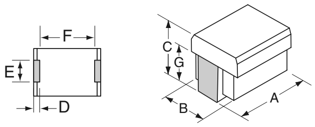

Minimum to Maximum Dimensions – Inch (mm)						
A (over terminals)	**B**	**C (over terminals)**	**D (Min.)**	**E**	**F (Ref. only)**	**G (Ref. only)**
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	0.15 (.38)	.054 ~ .078 (1.37 ~ 1.98)	.118 (3.00)	.066 (1.68)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .278W.

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ω)	Current Rating (mA)	Incremental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.113	1050	2400	DN7868CT-ND◆	1.26	1.20	.78	DN7868TR-ND◆	232.50	P1812R-102K
4.7	0.401	650	1131	DN7875CT-ND◆	1.26	1.20	.78	DN7875TR-ND◆	232.50	P1812R-472K
5.6	0.437	650	1060	DN7877CT-ND◆	1.26	1.20	.78	DN7877TR-ND◆	232.50	P1812R-562K
6.8	0.472	600	990	DN7878CT-ND◆	1.26	1.20	.78	DN7878TR-ND◆	232.50	P1812R-682K
10	0.608	550	772	DN7869CT-ND◆	1.26	1.20	.78	DN7869TR-ND◆	232.50	P1812R-103K
15	0.780	450	693	DN7871CT-ND◆	1.26	1.20	.78	DN7871TR-ND◆	232.50	P1812R-153K
18	0.875	400	614	DN3315CT-ND	1.26	1.20	.78	DN3315TR-ND	232.50	P1812-183K
18	0.875	400	614	DN7872CT-ND◆	1.26	1.20	.78	DN7872TR-ND◆	232.50	P1812R-183K
22	1.200	370	515	DN7873CT-ND◆	1.26	1.20	.78	DN7873TR-ND◆	232.50	P1812R-223K
33	1.578	300	425	DN7874CT-ND◆	1.26	1.20	.78	DN7874TR-ND◆	232.50	P1812R-333K
47	2.064	260	366	DN7876CT-ND◆	1.26	1.20	.78	DN7876TR-ND◆	232.50	P1812R-473K
68	3.408	220	297	DN3322CT-ND	1.26	1.20	.78	DN3322TR-ND	232.50	P1812-683K
100	4.320	180	238	DN7870CT-ND◆	1.26	1.20	.78	DN7870TR-ND◆	232.50	P1812R-104K
120	6.000	160	208	DN3325CT-ND	1.26	1.20	.78	DN3325TR-ND	232.50	P1812-124K

◆ ***RoHS Compliant***

Series P1330 Surface Mount Power Inductors

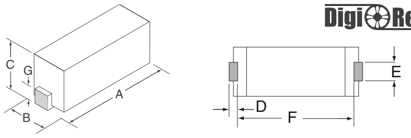

Minimum to Maximum Dimensions – Inch (mm)						
A	**B**	**C**	**D (Min.)**	**E**	**F (Ref. only)**	**G (Ref. Only)**
.300 ~ .325 (7.62 ~ 8.26)	.105 ~ .125 (2.67 ~ 3.18)	.125 ~ .145 (3.18 ~ 3.68)	0.20 (.506)	.040 ~ .060 (1.02 ~ 1.52)	.190 (4.83)	.070 (1.78)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .210W

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ω)	Current Rating (mA)	Incremental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.035	2780	1526	DN7855CT-ND◆	2.60	2.48	1.62	DN7855TR-ND◆	480.50	P1330R-102K
2.2	0.075	1690	1104	DN7860CT-ND◆	2.60	2.48	1.62	DN7860TR-ND◆	480.50	P1330R-222K
5.6	0.145	1110	612	DN7865CT-ND◆	2.60	2.48	1.62	DN7865TR-ND◆	480.50	P1330R-562K
10	0.216	946	564	DN7856CT-ND◆	2.60	2.48	1.62	DN7856TR-ND◆	480.50	P1330R-103K
22	0.384	694	348	DN7861CT-ND◆	2.60	2.48	1.62	DN7861TR-ND◆	480.50	P1330R-223K
47	0.792	467	246	DN7863CT-ND◆	2.60	2.48	1.62	DN7863TR-ND◆	480.50	P1330R-473K
68	1.020	384	174	DN7866CT-ND◆	2.60	2.48	1.62	DN7866TR-ND◆	480.50	P1330R-683K
82	1.380	362	150	DN7867CT-ND◆	2.60	2.48	1.62	DN7867TR-ND◆	480.50	P1330R-823K
100	1.680	347	132	DN7857CT-ND◆	3.02	2.88	1.88	DN7857TR-ND◆	558.00	P1330R-104K
150	2.040	272	106	DN3286CT-ND	2.20	2.10	1.36	—	—	P1330-154K
150	2.040	272	106	DN7859CT-ND◆	3.02	2.88	1.88	DN7859TR-ND◆	558.00	P1330R-154K
330	4.800	179	57	DN3290CT-ND	2.20	2.10	1.36	—	—	P1330-334K
330	4.800	179	57	DN7862CT-ND◆	3.02	2.88	1.88	DN7862TR-ND◆	558.00	P1330R-334K
470	6.000	161	41	DN7864CT-ND◆	3.02	2.88	1.88	DN7864TR-ND◆	558.00	P1330R-474K
1,000	11.160	105	22	DN7858CT-ND◆	3.02	2.88	1.88	DN7858TR-ND◆	558.00	P1330R-105K

◆ ***RoHS Compliant***

Series 4922 High Current Surface Mount Power Inductors

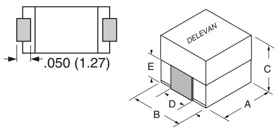

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance.
• **Operating Temperature Range:** -55°C ~ 125°C • **Current Rating:** 40°C Rise over 85°C Ambient • **Maximum Power Dissipation @ 85°C:** .55W • **Inductance:** Measured at 1V with no DC current

Minimum to Maximum Dimensions – Inch (mm)				
A	**B**	**C**	**D**	**E (Ref. only)**
.500 (12.70)	.240 (6.10)	.220 (5.59)	.065 (1.66)	.100 (2.54)

Induct. (µH) ±15% @ 1KHz	DC Resist. Max. (Ω)	Rated Current (Max. Amps)	Incremental Current (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800	API Delevan Part No.
Series 4922 Ferrite Core, ±15%										
0.22	0.0080	7.00	7.00	DN2193CT-ND	2.69	2.56	1.67	—	—	4922-221L
0.22	0.0080	7.00	7.00	DN7802CT-ND◆	2.90	2.76	1.80	DN7802TR-ND◆	855.60	4922R-221L
0.33	0.0090	6.50	6.50	DN2195CT-ND	2.69	2.56	1.67	DN2195TR-ND	855.60	4922-331L
0.47	0.0100	6.00	6.00	DN7817CT-ND◆	2.90	2.76	1.80	DN7817TR-ND◆	855.60	4922R-471L
0.56	0.0105	5.80	5.80	DN2198CT-ND	2.69	2.56	1.67	DN2198TR-ND	855.60	4922-561L
0.68	0.0110	5.70	5.70	DN2199CT-ND	2.69	2.56	1.67	DN2199TR-ND	806.00	4922-681L
0.82	0.0120	5.60	5.60	DN2200CT-ND	2.69	2.56	1.67	—	—	4922-821L
1.0	0.013	5.50	5.50	DN7788CT-ND◆	2.90	2.76	1.80	DN7788TR-ND◆	855.60	4922R-01L
1.2	0.018	4.69	4.69	DN2202CT-ND	2.69	2.56	1.67	—	—	4922-02L
1.5	0.020	4.45	4.45	DN2203CT-ND	2.69	2.56	1.67	DN2203TR-ND	855.60	4922-03L
1.8	0.021	4.34	4.34	DN2204CT-ND	2.69	2.56	1.67	DN2204TR-ND	855.60	4922-04L
2.2	0.029	3.70	3.70	DN7789CT-ND◆	2.90	2.76	1.80	DN7789TR-ND◆	855.60	4922R-05L
2.7	0.034	3.41	3.41	DN2206CT-ND	2.69	2.56	1.67	—	—	4922-06L
3.3	0.038	3.23	3.23	DN7790CT-ND◆	2.90	2.76	1.80	DN7790TR-ND◆	855.60	4922R-07l
3.9	0.042	3.07	3.07	DN7791CT-ND◆	2.90	2.76	1.80	DN7791TR-ND◆	855.60	4922R-08L
4.7	0.047	2.90	2.90	DN7792CT-ND◆	2.90	2.76	1.80	DN7792TR-ND◆	855.60	4922R-09L
5.6	0.051	2.79	2.79	DN7793CT-ND◆	2.90	2.76	1.80	DN7793TR-ND◆	855.60	4922R-10L
8.2	0.063	2.51	2.51	DN7794CT-ND◆	2.90	2.76	1.80	DN7794TR-ND◆	855.60	4922R-12L
10	0.071	2.36	2.36	DN7795CT-ND◆	2.90	2.76	1.80	DN7795TR-ND◆	855.60	4922R-13L
15	0.089	2.11	2.11	DN7797CT-ND◆	2.90	2.76	1.80	DN7797TR-ND◆	855.60	4922R-15L
22	0.152	1.61	1.61	DN7798CT-ND◆	2.90	2.76	1.80	DN7798TR-ND◆	855.60	4922R-17L
27	0.179	1.48	1.48	DN7799CT-ND◆	2.90	2.76	1.80	DN7799TR-ND◆	855.60	4922R-18L
33	0.222	1.33	1.33	DN7800CT-ND◆	2.90	2.76	1.80	DN7800TR-ND◆	855.60	4922R-19L
39	0.315	1.12	1.12	DN2220CT-ND	3.07	2.92	1.90	—	—	4922-20L
47	0.362	1.04	1.04	DN7801CT-ND◆	2.90	2.76	1.80	DN7801TR-ND◆	855.60	4922R-21L
56	0.397	1.00	1.00	DN7803CT-ND◆	2.90	2.76	1.80	DN7803TR-ND◆	855.60	4922R-22L
68	0.418	0.97	0.97	DN7804CT-ND◆	2.90	2.76	1.80	DN7804TR-ND◆	855.60	4922R-23L
82	0.604	0.81	0.81	DN2224CT-ND	3.28	3.12	2.03	DN2224TR-ND	855.60	4922-24L
82	0.604	0.81	0.81	DN7805CT-ND◆	2.90	2.76	1.80	DN7805TR-ND◆	855.60	4922R-24L
100	0.672	0.76	0.76	DN7806CT-ND◆	2.90	2.76	1.80	DN7806TR-ND◆	855.60	4922R-25L
120	0.735	0.73	0.73	DN2226CT-ND	3.28	3.12	2.03	—	—	4922-26L
120	0.735	0.73	0.73	DN7807CT-ND◆	2.90	2.76	1.80	DN7807TR-ND◆	855.60	4922R-26L
150	0.998	0.63	0.63	DN7808CT-ND◆	2.90	2.76	1.80	DN7808TR-ND◆	855.60	4922R-27l
180	1.37	0.53	0.53	DN2228CT-ND	3.28	3.12	2.03	DN2228TR-ND	855.60	4922-28L
180	1.37	0.53	0.53	DN7809CT-ND◆	2.90	2.76	1.80	DN7809TR-ND◆	855.60	4922R-28L
220	1.58	0.50	0.50	DN7810CT-ND◆	2.90	2.76	1.80	DN7810TR-ND◆	855.60	4922R-29L
330	2.51	0.39	0.39	DN2231CT-ND	3.28	3.12	2.03	DN2231TR-ND	855.60	4922-31L
330	2.51	0.39	0.39	DN7811CT-ND◆	2.90	2.76	1.80	DN7811TR-ND◆	855.60	4922R-31L
390	2.73	0.38	0.38	DN7812CT-ND◆	2.90	2.76	1.80	DN7812TR-ND◆	855.60	4922R-32L
470	3.25	0.35	0.35	DN7813CT-ND◆	2.90	2.76	1.80	DN7813TR-ND◆	855.60	4922R-33L
680	4.31	0.30	0.30	DN2235CT-ND	3.36	3.20	2.08	DN2235TR-ND	1041.60	4922-35L
680	4.31	0.30	0.30	DN7814CT-ND◆	3.53	3.36	2.19	DN7814TR-ND◆	1041.60	4922R-35L
1,000	6.90	0.24	0.24	DN7815CT-ND◆	3.53	3.36	2.19	DN7815TR-ND◆	1041.60	4922R-37L
1,200	10.00	0.20	0.20	DN7816CT-ND◆	3.53	3.36	2.19	DN7816TR-ND◆	1041.60	4922R-38L
2,700	23.00	0.131	0.131	DN2335CT-ND	3.36	3.20	2.08	DN2335TR-ND	1041.60	4922-42L
3,900	33.00	0.110	0.110	DN2337CT-ND	3.36	3.20	2.08	—	—	4922-44L
4,700	37.00	0.103	0.103	DN2338CT-ND	3.36	3.20	2.08	DN2338TR-ND	1041.60	4922-45L
5,600	40.00	0.100	0.100	DN2339CT-ND	3.36	3.20	2.08	DN2339TR-ND	1041.60	4922-46L
6,800	62.00	0.080	0.080	DN2340CT-ND	3.53	3.36	2.19	—	—	4922-47L
6,800	62.00	0.080	0.080	DN7818CT-ND◆	3.53	3.36	2.19	DN7818TR-ND◆	1041.60	4922R-47L
8,200	66.00	0.077	0.077	DN7819CT-ND◆	3.53	3.36	2.19	DN7819TR-ND◆	1041.60	4922R-48L
10,000	74.00	0.071	0.071	DN2342CT-ND	3.53	3.36	2.19	DN2342TR-ND	1041.60	4922-49L
10,000	74.00	0.071	0.071	DN7820CT-ND◆	3.53	3.36	2.19	DN7820TR-ND◆	1041.60	4922R-49L
12,000	93.00	0.065	0.065	DN2343CT-ND	3.53	3.36	2.19	—	—	4922-50L
22,000	160.00	0.050	0.050	DN7821CT-ND◆	3.53	3.36	2.19	DN7821TR-ND◆	1041.60	4922R-53L

◆ ***RoHS Compliant***

(Continued)

Series 5022 Surface Mount Inductors

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating at 90°C Ambient:** 35°C Rise **Maximum Power Dissipation at 90°C**: .405W **Weight Maximum:** 1.5 grams

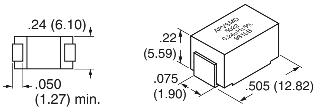

Induct. (µH) ± 5%	Q Min.	Test Freq. (MHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800	API Delevan Part No.
Series 5022 Phenolic Core											
0.20	50	25	0.047	2790	DN2243CT-ND	3.28	3.12	2.03	DN2243TR-ND	967.20	5022-201J
0.62	50	25	0.140	1615	DN2255CT-ND	2.52	2.40	1.56	DN2255TR-ND	967.20	5022-621J
2.0	33	7.9	0.800	675	DN2267CT-ND	2.52	2.40	1.56	DN2267TR-ND	967.20	5022-202J
3.9	33	7.9	2.300	395	DN2274CT-ND	2.52	2.40	1.56	DN2274TR-ND	967.20	5022-392J
Series 5022 Iron Core											
1000	65	0.79	33.000	105	DN2347CT-ND	3.28	3.12	2.03	DN2347TR-ND	967.20	5022R-105J

Series 8532 Surface Mount Power Inductors

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation at 85°C**: .50W **Inductance:** Measured at 1V with no DC current

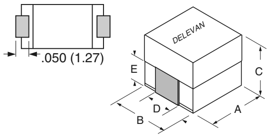

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	**B**	**C (over terminals)**	**D**	**E (Ref. only)**
.840 ~ .860 (21.34 ~ 21.84)	.310 ~ .330 (7.87 ~ 8.38)	.266 ~ .286 (6.76 ~ 7.26)	.070 ~ .110 (1.78 ~ 2.79)	.20 (5.08)

Induct. @ 1 KHz (µH)±15%	Max. DC Resist. (Ω)	Current Rating Max. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 480	API Delevan Part No.
Series 8532 Ferrite Core, ±15%									
1.0	0.009	6.27	DN3201CT-ND	3.61	3.44	2.24	DN3201TR-ND	751.44	8532-01LTR
1.0	0.009	6.27	DN7822CT-ND◆	4.24	4.04	2.63	DN7822TR-ND◆	751.44	8532R-01L
1.2	0.010	5.95	DN3202CT-ND	3.61	3.44	2.24	DN3202TR-ND	751.44	8532-02LTR
1.5	0.011	5.67	DN3203CT-ND	3.61	3.44	2.24	—	—	8532-03LTR
3.3	0.016	4.70	DN3207CT-ND	3.61	3.44	2.24	—	—	8532-07LTR
3.3	0.016	4.70	DN7823CT-ND◆	4.24	4.04	2.63	DN7823TR-ND◆	751.44	8532R-07L
3.9	0.017	4.56	DN3208CT-ND	3.61	3.44	2.24	DN3208TR-ND	751.44	8532-08LTR
4.7	0.022	4.01	DN3209CT-ND	3.61	3.44	2.24	DN3209TR-ND	751.44	8532-09LTR
4.7	0.022	4.01	DN7824CT-ND◆	4.24	4.04	2.63	DN7824TR-ND◆	751.44	8532R-09L
5.6	0.024	3.84	DN7825CT-ND◆	4.24	4.04	2.63	DN7825TR-ND◆	751.44	8532R-10L
6.8	0.026	3.69	DN3211CT-ND	3.61	3.44	2.24	DN3211TR-ND	751.44	8532-11LTR
10	0.033	3.27	DN7826CT-ND◆	4.24	4.04	2.63	DN7826TR-ND◆	751.44	8532R-13L
12	0.037	3.09	DN3214CT-ND	4.03	3.84	2.50	DN3214TR-ND	751.44	8532-14LTR
15	0.040	2.97	DN3215CT-ND	4.03	3.84	2.50	—	—	8532-15LTR
15	0.040	2.97	DN7827CT-ND◆	4.24	4.04	2.63	DN7827TR-ND◆	751.44	8532R-15L
18	0.044	2.84	DN3216CT-ND	4.03	3.84	2.50	DN3216TR-ND	751.44	8532-16LTR
18	0.044	2.84	DN7828CT-ND◆	4.24	4.04	2.63	DN7828TR-ND◆	751.44	8532R-16L
22	0.050	2.66	DN7829CT-ND◆	4.24	4.04	2.63	DN7829TR-ND◆	751.44	8532R-17L
27	0.070	2.25	DN3218CT-ND	4.03	3.84	2.50	DN3218TR-ND	751.44	8532-18LTR
47	0.104	1.84	DN7830CT-ND◆	4.24	4.04	2.63	DN7830TR-ND◆	751.44	8532R-21L
56	0.130	1.65	DN3222CT-ND	4.03	3.84	2.50	—	—	8532-22LTR
56	0.130	1.65	DN7831CT-ND◆	4.24	4.04	2.63	DN7831TR-ND◆	751.44	8532R-22L
68	0.145	1.56	DN7832CT-ND◆	4.24	4.04	2.63	—	—	8532R-23L
82	0.152	1.53	DN3224CT-ND	4.03	3.84	2.50	DN3224TR-ND	751.44	8532-24LTR
100	0.208	1.30	DN7833CT-ND◆	4.83	4.60	2.99	DN7833TR-ND◆	855.60	8532R-25L
180	0.362	0.99	DN3228CT-ND	4.24	4.04	2.63	DN3228TR-ND	855.60	8532-28LTR
180	0.362	0.99	DN7834CT-ND◆	4.83	4.60	2.99	DN7834TR-ND◆	855.60	8532R-28L
220	0.505	0.84	DN7835CT-ND◆	4.83	4.60	2.99	DN7835TR-ND◆	855.60	8532R-29L
270	0.557	0.80	DN7836CT-ND◆	4.83	4.60	2.99	DN7836TR-ND◆	855.60	8532R-30L
560	1.14	0.56	DN3234CT-ND	4.83	4.60	2.99	—	—	8532-34LTR
560	1.14	0.56	DN7837CT-ND◆	4.83	4.60	2.99	DN7837TR-ND◆	855.60	8532R-34L
680	1.50	0.49	DN3235CT-ND	4.83	4.60	2.99	DN3235TR-ND	855.60	8532-35LTR
680	1.50	0.49	DN7838CT-ND◆	4.83	4.60	2.99	DN7838TR-ND◆	855.60	8532R-35L
1,000	2.30	0.39	DN3237CT-ND	4.83	4.60	2.99	—	—	8532-37LTR
1,000	2.30	0.39	DN7839CT-ND◆	4.83	4.60	2.99	DN7839TR-ND◆	855.60	8532R-37L
1,200	2.55	0.37	DN3238CT-ND	4.83	4.60	2.99	DN3238TR-ND	855.60	8532-38LTR
1,800	4.00	0.30	DN3240CT-ND	4.83	4.60	2.99	DN3240TR-ND	855.60	8532-40LTR
2,700	5.80	0.25	DN3242CT-ND	4.83	4.60	2.99	DN3242TR-ND	855.60	8532-42LTR
3,900	8.63	0.20	DN3244CT-ND	4.83	4.60	2.99	DN3244TR-ND	855.60	8532-44LTR
5,600	11.2	0.18	DN3246CT-ND	4.83	4.60	2.99	DN3246TR-ND	855.60	8532-46LTR
6,800	15.0	0.15	DN3247CT-ND	4.83	4.60	2.99	DN3247TR-ND	855.60	8532-47LTR
8,200	20.8	0.13	DN7840CT-ND◆	4.83	4.60	2.99	DN7840TR-ND◆	855.60	8532R-48L
15,000	36.0	0.10	DN3251CT-ND	4.83	4.60	2.99	DN3251TR-ND	855.60	8532-51LTR
18,000	40.0	0.09	DN3252CT-ND	4.49	4.28	2.79	—	—	8532-52LTR

◆ ***RoHS Compliant***

Series SPD42 Shielded SMD Power Chokes

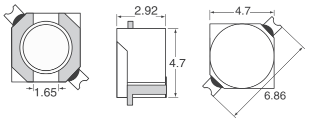

Specifications:
- Operating Temperature Range: -55°C ~ 125°C

Inductance (µH)	Test Freq. (MHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
1.2	100	.019	1.80	DN7659CT-ND	2.10	2.00	1.30	DN7659TR-ND	387.50	SPD42R-122M
2.2	100	.023	1.35	DN7660CT-ND	2.10	2.00	1.30	DN7660TR-ND	387.50	SPD42R-222M
3.3	100	.032	1.10	DN7661CT-ND	2.10	2.00	1.30	DN7661TR-ND	387.50	SPD42R-332M
4.7	100	.045	0.90	DN7662CT-ND	2.10	2.00	1.30	DN7662TR-ND	387.50	SPD42R-472M
6.8	100	.060	0.73	DN7663CT-ND	2.10	2.00	1.30	DN7663TR-ND	387.50	SPD42R-682M
10	100	.083	0.58	DN7664CT-ND	2.10	2.00	1.30	DN7664TR-ND	387.50	SPD42R-103M
27	1.0	.190	0.35	DN7669CT-ND	2.10	2.00	1.30	DN7669TR-ND	387.50	SPD42R-273M
47	1.0	.320	0.28	DN7672CT-ND	2.10	2.00	1.30	DN7672TR-ND	387.50	SPD42R-473M
56	1.0	.365	0.25	DN7673CT-ND	2.10	2.00	1.30	DN7673TR-ND	387.50	SPD42R-563M
68	1.0	.480	0.22	DN7674CT-ND	2.10	2.00	1.30	DN7674TR-ND	387.50	SPD42R-683M
82	1.0	.520	0.20	DN7675CT-ND	2.10	2.00	1.30	DN7675TR-ND	387.50	SPD42R-823M
100	1.0	.700	0.12	DN7676CT-ND	2.10	2.00	1.30	DN7676TR-ND	387.50	SPD42R-104M

Series SPD62 Shielded Surface Mount Inductors

This low cost power choke is suitable for PDA, palmtop and other power management applications requiring small size, high current capacity and a shielded winding to reduce EMI/RFI. The flat top construction lends itself to auto-insertion. **Operating Temperature Range:** -55°C ~ 125°C

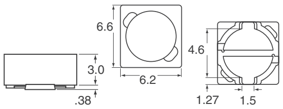

Induct. (µH) ± 20%	Test Freq. (KHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	API Delevan Part No.
1.2	100	0.08	3.50	DN7959CT-ND◆	1.93	1.84	1.20	DN7959TR-ND◆	644.00/M	SPD62R-122M
4.7	100	0.15	2.00	DN7960CT-ND◆	1.93	1.84	1.20	DN7960TR-ND◆	644.00/M	SPD62R-472M
10	100	0.18	1.40	DN7961CT-ND◆	1.93	1.84	1.20	DN7961TR-ND◆	644.00/M	SPD62R-103M
22	1	0.40	1.00	DN7962CT-ND◆	1.93	1.84	1.20	DN7962TR-ND◆	644.00/M	SPD62R-223M
33	1	0.50	0.82	DN7963CT-ND◆	1.93	1.84	1.20	DN7963TR-ND◆	644.00/M	SPD62R-333M
39	1	0.70	0.78	DN7512CT-ND	1.81	1.72	1.12	—	—	SPD62-393M
47	1	0.75	0.70	DN7964CT-ND◆	1.93	1.84	1.20	DN7964TR-ND◆	644.00/M	SPD62R-473M
56	1	0.85	0.68	DN7965CT-ND◆	1.93	1.84	1.20	DN7965TR-ND◆	644.00/M	SPD62R-563M
68	1	1.2	0.56	DN7966CT-ND◆	1.93	1.84	1.20	DN7966TR-ND◆	644.00/M	SPD62R-683M
120	1	1.7	0.39	DN7518CT-ND	1.81	1.72	1.12	—	—	SPD62-124M
270	1	3.0	0.29	DN7522CT-ND	1.81	1.72	1.12	—	—	SPD62-274M

◆ ***RoHS Compliant***

Series HCT High Current Toroidal Inductors

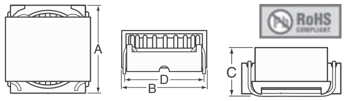

Features:
- Surface mount
- Low profile, self-leaded

Specifications:
- Frequency Range: 1KHz ~ 1MHz
- Operating Temperature Range: -30°C ~ 130°C
- Materials: Meets UL94V-0
- Maximum Power Dissipation @ 25°C: HCTR-37x: 0.9W; HCTR-44x: 1.0W; HCTR-50x: 1.1W; HCTR-68x: 1.2W
- Test Frequency: 100KHz

Series	Dimensions (mm) A	B	C	D
HCTR-37x	0.615	0.6	0.37	0.5
HCTR-44x	0.665	0.665	0.4	0.56
HCTR-50x	0.74	0.74	0.4	0.63
HCTR-68x	0.945	0.94	0.4	0.82

Inductance (µH) ±25%	Max. DC Resistance (Ω)	DC Amps to Produce Max. Temp. Rise from 25°C Ambient 25°C	55°C	Q Typ.	Typ. SRF (MHz)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
HCTR-37x										
1.25	.0025	12.3	17.4	32	260	DN4791-ND	5.64	4.83	3.22	HCTR-371
2.1	.004	9.87	13.9	27	160	DN4792-ND	5.64	4.83	3.22	HCTR-372
2.8	.0063	7.82	11.0	27	110	DN4793-ND	5.64	4.83	3.22	HCTR-373
HCTR-44x										
2.8	.0036	11.0	15.6	33	110	DN4795-ND	5.64	4.83	3.22	HCTR-441
4.2	.0054	9.14	12.8	29	85	DN4796-ND	5.64	4.83	3.22	HCTR-442
5.7	.0075	7.78	10.9	29	65	DN4797-ND	5.64	4.83	3.22	HCTR-443
9.0	.0114	6.28	8.87	26	55	DN4798-ND	5.64	4.83	3.22	HCTR-444
HCTR-50x										
6.5	.0066	8.56	12.0	25	55	DN4799-ND	5.64	4.83	3.22	HCTR-501
8.4	.0083	7.66	10.8	23	45	DN4800-ND	5.64	4.83	3.22	HCTR-502
12.5	.0114	6.56	9.25	23	35	DN4801-ND	5.64	4.83	3.22	HCTR-503
17.0	.017	5.37	7.58	22	29	DN4802-ND	5.64	4.83	3.22	HCTR-504
HCTR-68x										
10.5	.0062	9.39	13.2	35	30	DN4803-ND	5.64	4.83	3.22	HCTR-681
17.6	.0123	6.6	9.32	35	24	DN4804-ND	5.64	4.83	3.22	HCTR-682
22.0	.0175	5.58	7.87	30	21	DN4805-ND	5.64	4.83	3.22	HCTR-683
29.0	.025	4.66	6.57	30	16	DN4806-ND	5.64	4.83	3.22	HCTR-684

(Continued)

Series SPD73/SPD74 Shielded SMD Power Inductors

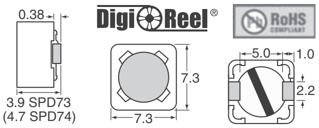

Specifications:

Operating Temperature Range: -55°C ~ 125°C

Inductance (µH)	Test Freq. (KHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
SPD73 Series										
10	100	.067	2.50	DN7592CT-ND	2.73	2.60	1.69	DN7592TR-ND	910.00	SPD73R-103M
15	1	.091	2.00	DN7593CT-ND	2.73	2.60	1.69	DN7593TR-ND	910.00	SPD73R-153M
18	1	.14	1.80	DN7594CT-ND	2.73	2.60	1.69	DN7594TR-ND	910.00	SPD73R-183M
22	1	.19	1.75	DN7595CT-ND	2.73	2.60	1.69	DN7595TR-ND	910.00	SPD73R-223M
47	1	.36	1.16	DN7596CT-ND	2.73	2.60	1.69	DN7596TR-ND	910.00	SPD73R-473M
68	1	.52	1.05	DN7598CT-ND	2.73	2.60	1.69	DN7598TR-ND	910.00	SPD73R-683M
100	1	.79	.85	DN7599CT-ND	2.73	2.60	1.69	DN7599TR-ND	910.00	SPD73R-104M
150	1	.89	.70	DN7600CT-ND	2.73	2.60	1.69	DN7600TR-ND	910.00	SPD73R-154M
180	1	1.45	.62	DN7601CT-ND	2.73	2.60	1.69	DN7601TR-ND	910.00	SPD73R-184M
220	1	1.65	.57	DN7602CT-ND	2.73	2.60	1.69	DN7602TR-ND	910.00	SPD73R-224M
330	1	2.62	.50	DN7603CT-ND	2.73	2.60	1.69	DN7603TR-ND	910.00	SPD73R-334M
470	1	4.18	.38	DN7604CT-ND	2.73	2.60	1.69	DN7604TR-ND	910.00	SPD73R-474M
SPD74 Series										
10	100	.049	3.2	DN7606CT-ND	2.73	2.60	1.69	DN7606TR-ND	910.00	SPD74R-103M
15	1	.081	2.4	DN7607CT-ND	2.73	2.60	1.69	DN7607TR-ND	910.00	SPD74R-153M
18	1	.091	2.3	DN7608CT-ND	2.73	2.60	1.69	DN7608TR-ND	910.00	SPD74R-183M
22	1	.11	2.00	DN7609CT-ND	2.73	2.60	1.69	DN7609TR-ND	910.00	SPD74R-223M
47	1	.26	1.30	DN7610CT-ND	2.73	2.60	1.69	DN7610TR-ND	910.00	SPD74R-473M
56	1	.35	1.1	DN7611CT-ND	2.73	2.60	1.69	DN7611TR-ND	910.00	SPD74R-563M
100	1	.61	.86	DN7613CT-ND	2.73	2.60	1.69	DN7613TR-ND	910.00	SPD74R-104M
150	1	.88	.70	DN7614CT-ND	2.73	2.60	1.69	DN7614TR-ND	910.00	SPD74R-154M
180	1	.98	.68	DN7615CT-ND	2.73	2.60	1.69	—	—	SPD74R-184M
220	1	1.17	.60	DN7616CT-ND	2.73	2.60	1.69	—	—	SPD74R-224M
560	1	3.62	.36	DN7619CT-ND	2.73	2.60	1.69	DN7619TR-ND	910.00	SPD74R-564M
1,000	1	6.0	.28	DN7620CT-ND	2.73	2.60	1.69	DN7620TR-ND	910.00	SPD74R-105M

Series SPD125/SPD127 Shielded SMD Power Inductors

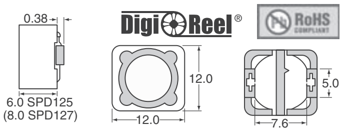

Specifications:

Operating Temperature Range: -55°C ~ 125°C

Inductance (µH)	Test Freq. (KHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
SPD125 Series										
10	100	.055	4.00	DN7621CT-ND	3.02	2.88	1.88	DN7621TR-ND	558.00	SPD125R-103M
15	1	.065	3.30	DN7622CT-ND	3.02	2.88	1.88	DN7622TR-ND	558.00	SPD125R-153M
18	1	.070	3.00	DN7623CT-ND	3.02	2.88	1.88	DN7623TR-ND	558.00	SPD125R-183M
22	1	.075	2.80	DN7624CT-ND	3.02	2.88	1.88	DN7624TR-ND	558.00	SPD125R-223M
47	1	.115	1.80	DN7627CT-ND	3.02	2.88	1.88	DN7627TR-ND	558.00	SPD125R-473M
68	1	.170	1.50	DN7629CT-ND	3.02	2.88	1.88	DN7629TR-ND	558.00	SPD125R-683M
100	1	.210	1.30	DN7631CT-ND	3.02	2.88	1.88	DN7631TR-ND	558.00	SPD125R-104M
120	1	.250	1.10	DN7632CT-ND	3.02	2.88	1.88	—	—	SPD125R-124M
150	1	.300	1.00	DN7633CT-ND	3.02	2.88	1.88	—	—	SPD125R-154M
180	1	.350	.90	DN7634CT-ND	3.02	2.88	1.88	DN7634TR-ND	558.00	SPD125R-184M
220	1	.420	.80	DN7635CT-ND	3.02	2.88	1.88	DN7635TR-ND	558.00	SPD125R-224M
330	1	.600	.70	DN7636CT-ND	3.02	2.88	1.88	DN7636TR-ND	558.00	SPD125R-334M
1,000	1	2.00	.40	DN7638CT-ND	3.02	2.88	1.88	DN7638TR-ND	558.00	SPD125R-105M
SPD127 Series										
4.7	100	.022	6.80	DN7639CT-ND	3.23	3.08	2.01	DN7639TR-ND	596.75	SPD127R-472M
10	100	.040	5.40	DN7640CT-ND	3.23	3.08	2.01	DN7640TR-ND	596.75	SPD127R-103M
15	1	.048	4.50	DN7642CT-ND	3.23	3.08	2.01	DN7642TR-ND	596.75	SPD127R-153M
18	1	.052	3.90	DN7643CT-ND	3.23	3.08	2.01	DN7643TR-ND	596.75	SPD127R-183M
22	1	.055	3.60	DN7644CT-ND	3.23	3.08	2.01	DN7644TR-ND	596.75	SPD127R-223M
27	1	.060	3.40	DN7645CT-ND	3.23	3.08	2.01	DN7645TR-ND	596.75	SPD127R-273M
33	1	.065	3.00	DN7646CT-ND	3.23	3.08	2.01	DN7646TR-ND	596.75	SPD127R-333M
47	1	.100	2.50	DN7648CT-ND	3.23	3.08	2.01	DN7648TR-ND	596.75	SPD127R-473M
56	1	.120	2.30	DN7649CT-ND	3.23	3.08	2.01	DN7649TR-ND	596.75	SPD127R-563M
68	1	.140	2.10	DN7650CT-ND	3.23	3.08	2.01	DN7650TR-ND	596.75	SPD127R-683M
100	1	.220	1.70	DN7652CT-ND	3.23	3.08	2.01	DN7652TR-ND	596.75	SPD127R-104M
120	1	.250	1.60	DN7653CT-ND	3.23	3.08	2.01	DN7653TR-ND	596.75	SPD127R-124M
150	1	.320	1.40	DN7654CT-ND	3.23	3.08	2.01	DN7654TR-ND	596.75	SPD127R-154M
220	1	.390	1.20	DN7655CT-ND	3.23	3.08	2.01	DN7655TR-ND	596.75	SPD127R-224M
330	1	.620	1.00	DN7656CT-ND	3.23	3.08	2.01	DN7656TR-ND	596.75	SPD127R-334M
470	1	.980	.80	DN7657CT-ND	3.23	3.08	2.01	DN7657TR-ND	596.75	SPD127R-474M
1,000	1	1.54	.62	DN7658CT-ND	3.23	3.08	2.01	DN7658TR-ND	596.75	SPD127R-105M

Series SDS130 Shielded SMD Power Chokes

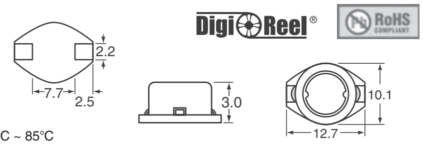

Specifications:

- Core Material: Ferrite
- Operating Temperature Range: -40°C ~ 85°C

Inductance (µH)	Test Freq. (MHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
2.2	100	.045	3.5	DN7524CT-ND	1.13	1.08	.71	—	—	SDS130R-222N
3.0	100	.062	3.0	DN7525CT-ND	1.13	1.08	.71	DN7525TR-ND	378.00	SDS130R-302N
4.7	100	.078	2.5	DN7527CT-ND	1.13	1.08	.71	DN7527TR-ND	378.00	SDS130R-472N
6.8	100	.100	2.2	DN7528CT-ND	1.13	1.08	.71	DN7528TR-ND	378.00	SDS130R-682N

Inductance (µH)	Test Freq. (MHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
10	1	.145	2.0	DN7529CT-ND	1.13	1.08	.71	—	—	SDS130R-103M
47	1	.65	.80	DN7532CT-ND	1.13	1.08	.71	DN7532TR-ND	378.00	SDS130R-473M
68	1	.80	.70	DN7533CT-ND	1.13	1.08	.71	DN7533TR-ND	378.00	SDS130R-683M

Series SDS680 Shielded SMD Power Chokes

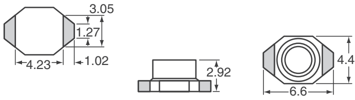

Specifications:

- Core Material: Ferrite
- Operating Temperature Range: -40°C ~ 85°C

Inductance (µH) ±20%	SRF (MHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	API Delevan Part No.
1.0	250	.040	3.0	DN7538CT-ND	1.18	1.12	.73	DN7538TR-ND	372.40/M	SDS680R-102M
1.5	125	.045	2.8	DN7539CT-ND	1.18	1.12	.73	DN7539TR-ND	372.40/M	SDS680R-152M
2.2	120	.050	1.8	DN7540CT-ND	1.18	1.12	.73	DN7540TR-ND	372.40/M	SDS680R-222M
3.3	120	.055	1.6	DN7541CT-ND	1.18	1.12	.73	DN7541TR-ND	372.40/M	SDS680R-332M
4.7	105	.060	1.4	DN7542CT-ND	1.18	1.12	.73	DN7542TR-ND	372.40/M	SDS680R-472M
6.8	50	.065	1.2	DN7543CT-ND	1.18	1.12	.73	DN7543TR-ND	372.40/M	SDS680R-682M
10	38	.075	1.0	DN7544CT-ND	1.18	1.12	.73	DN7544TR-ND	372.40/M	SDS680R-103M
15	33	.090	.80	DN7545CT-ND	1.18	1.12	.73	DN7545TR-ND	372.40/M	SDS680R-153M
22	25	.110	.70	DN7546CT-ND	1.18	1.12	.73	DN7546TR-ND	372.40/M	SDS680R-223M
33	20	.190	.60	DN7547CT-ND	1.18	1.12	.73	DN7547TR-ND	372.40/M	SDS680R-333M
47	20	.230	.50	DN7548CT-ND	1.18	1.12	.73	DN7548TR-ND	372.40/M	SDS680R-473M
68	15	.290	.40	DN7549CT-ND	1.18	1.12	.73	DN7549TR-ND	372.40/M	SDS680R-683M
100	10	.480	.30	DN7550CT-ND	1.18	1.12	.73	DN7550TR-ND	372.40/M	SDS680R-104M
220	6	.770	.22	DN7552CT-ND	1.18	1.12	.73	DN7552TR-ND	372.40/M	SDS680R-224M
680	3	2.20	.18	DN7555CT-ND	1.18	1.12	.73	DN7555TR-ND	372.40/M	SDS680R-684M
1,000	2	3.40	.15	DN7556CT-ND	1.18	1.12	.73	DN7556TR-ND	372.40/M	SDS680R-105M
2,200	2	8.50	.10	DN7558CT-ND	1.18	1.12	.73	DN7558TR-ND	372.40/M	SDS680R-225M
4,700	1	13.9	.06	DN7560CT-ND	1.18	1.12	.73	DN7560TR-ND	372.40/M	SDS680R-475M
6,800	1	25.0	.04	DN7561CT-ND	1.18	1.12	.73	DN7561TR-ND	372.40/M	SDS680R-685M
10,000	0.8	32.8	.02	DN7562CT-ND	1.18	1.12	.73	DN7562TR-ND	372.40/M	SDS680R-106M

Series SDS850 Shielded SMD Power Chokes

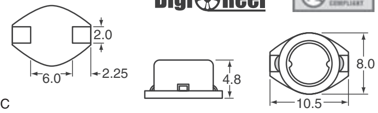

Specifications:

- Core Material: Ferrite
- Operating Temperature Range: -40°C ~ 85°C

Inductance (µH)	Test Freq. (KHz)	DC Resist. Max. (Ω)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
2.2	100	.040	2.50	DN7563CT-ND	1.22	1.16	.76	DN7563TR-ND	406.00	SDS850R-222N
8.2	100	.080	1.75	DN7566CT-ND	1.22	1.16	.76	DN7566TR-ND	406.00	SDS850R-822N
10	1	.100	1.50	DN7567CT-ND	1.22	1.16	.76	DN7567TR-ND	406.00	SDS850R-103M
15	1	.140	1.30	DN7569CT-ND	1.22	1.16	.76	DN7569TR-ND	406.00	SDS850R-153M
18	1	.160	1.20	DN7570CT-ND	1.22	1.16	.76	DN7570TR-ND	406.00	SDS850R-183M
33	1	.240	.920	DN7573CT-ND	1.22	1.16	.76	—	—	SDS850R-333M
47	1	.280	.750	DN7575CT-ND	1.22	1.16	.76	DN7575TR-ND	406.00	SDS850R-473M
56	1	.380	.680	DN7576CT-ND	1.22	1.16	.76	DN7576TR-ND	406.00	SDS850R-563M
100	1	.600	.500	DN7579CT-ND	1.22	1.16	.76	DN7579TR-ND	406.00	SDS850R-104M
180	1	1.05	.350	DN7582CT-ND	1.22	1.16	.76	DN7582TR-ND	406.00	SDS850R-184M
270	1	1.40	.270	DN7584CT-ND	1.22	1.16	.76	DN7584TR-ND	406.00	SDS850R-274M
470	1	2.25	.200	DN7587CT-ND	1.22	1.16	.76	DN7587TR-ND	406.00	SDS850R-474M
1,000	1	5.00	.150	DN7591CT-ND	1.22	1.16	.76	DN7591TR-ND	406.00	SDS850R-105M

NEW! Series SP1008R Shielded SMD Power Inductors

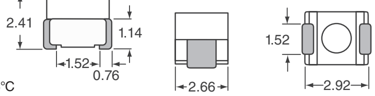

Specifications:

- Operating Temperature Range: -55°C ~ 125°C

Inductance ±10% (µH)	DC Resist. Max. (Ω)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
0.27	0.099	1070	SP1008R-271KCT-ND	5.88	5.60	3.64	SP1008R-271KTR-ND	1085.00	SP1008R-271K
0.33	0.108	1030	SP1008R-331KCT-ND	5.88	5.60	3.64	SP1008R-331KTR-ND	1085.00	SP1008R-331K
0.39	0.118	980	SP1008R-391KCT-ND	5.88	5.60	3.64	SP1008R-391KTR-ND	1085.00	SP1008R-391K
0.47	0.128	941	SP1008R-471KCT-ND	5.88	5.60	3.64	SP1008R-471KTR-ND	1085.00	SP1008R-471K
0.56	0.147	878	SP1008R-561KCT-ND	5.88	5.60	3.64	SP1008R-561KTR-ND	1085.00	SP1008R-561K
0.68	0.157	850	SP1008R-681KCT-ND	5.88	5.60	3.64	SP1008R-681KTR-ND	1085.00	SP1008R-681K
0.82	0.167	824	SP1008R-821KCT-ND	5.88	5.60	3.64	SP1008R-821KTR-ND	1085.00	SP1008R-821K
1.00	0.228	705	SP1008R-102KCT-ND	5.88	5.60	3.64	SP1008R-102KTR-ND	1085.00	SP1008R-102K
1.20	0.252	671	SP1008R-122KCT-ND	5.88	5.60	3.64	SP1008R-122KTR-ND	1085.00	SP1008R-122K
1.50	0.288	627	SP1008R-152KCT-ND	5.88	5.60	3.64	SP1008R-152KTR-ND	1085.00	SP1008R-152K
1.80	0.392	538	SP1008R-182KCT-ND	5.88	5.60	3.64	SP1008R-182KTR-ND	1085.00	SP1008R-182K
2.20	0.437	509	SP1008R-222KCT-ND	5.88	5.60	3.64	SP1008R-222KTR-ND	1085.00	SP1008R-222K
2.70	0.482	485	SP1008R-272KCT-ND	5.88	5.60	3.64	SP1008R-272KTR-ND	1085.00	SP1008R-272K
3.30	0.527	465	SP1008R-332KCT-ND	5.88	5.60	3.64	SP1008R-332KTR-ND	1085.00	SP1008R-332K

(Continued)

API Delevan Coils and Inductors

NEW! Series SP1008R Shielded SMD Power Inductors *(Cont.)*

Inductance ±10% (µH)	DC Resist. Max. (Ω)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
3.90	0.739	392	SP1008R-392KCT-ND	5.88	5.60	3.64	SP1008R-392KTR-ND	1085.00	SP1008R-392K
4.70	0.817	372	SP1008R-472KCT-ND	5.88	5.60	3.64	SP1008R-472KTR-ND	1085.00	SP1008R-472K
5.60	0.895	356	SP1008R-562KCT-ND	5.88	5.60	3.64	SP1008R-562KTR-ND	1085.00	SP1008R-562K
6.80	1.43	282	SP1008R-682KCT-ND	5.88	5.60	3.64	SP1008R-682KTR-ND	1085.00	SP1008R-682K
8.20	1.54	271	SP1008R-822KCT-ND	5.88	5.60	3.64	SP1008R-822KTR-ND	1085.00	SP1008R-822K
10.0	1.70	258	SP1008R-103KCT-ND	5.88	5.60	3.64	SP1008R-103KTR-ND	1085.00	SP1008R-103K
12.0	1.87	246	SP1008R-123KCT-ND	5.88	5.60	3.64	SP1008R-123KTR-ND	1085.00	SP1008R-123K
15.0	2.10	232	SP1008R-153KCT-ND	5.88	5.60	3.64	SP1008R-153KTR-ND	1085.00	SP1008R-153K
18.0	2.88	198	SP1008R-183KCT-ND	5.88	5.60	3.64	SP1008R-183KTR-ND	1085.00	SP1008R-183K
22.0	4.02	168	SP1008R-223KCT-ND	5.88	5.60	3.64	SP1008R-223KTR-ND	1085.00	SP1008R-223K
27.0	4.50	159	SP1008R-273KCT-ND	5.88	5.60	3.64	SP1008R-273KTR-ND	1085.00	SP1008R-273K
33.0	4.90	152	SP1008R-333KCT-ND	5.88	5.60	3.64	SP1008R-333KTR-ND	1085.00	SP1008R-333K
39.0	5.30	146	SP1008R-393KCT-ND	5.88	5.60	3.64	SP1008R-393KTR-ND	1085.00	SP1008R-393K
47.0	5.90	139	SP1008R-473KCT-ND	5.88	5.60	3.64	SP1008R-473KTR-ND	1085.00	SP1008R-473K
56.0	6.40	133	SP1008R-563KCT-ND	5.88	5.60	3.64	SP1008R-563KTR-ND	1085.00	SP1008R-563K
68.0	9.00	112	SP1008R-683KCT-ND	5.88	5.60	3.64	SP1008R-683KTR-ND	1085.00	SP1008R-683K
82.0	9.90	107	SP1008R-823KCT-ND	5.88	5.60	3.64	SP1008R-823KTR-ND	1085.00	SP1008R-823K
100	10.9	102	SP1008R-104KCT-ND	5.88	5.60	3.64	SP1008R-104KTR-ND	1085.00	SP1008R-104K

NEW! Series SP1210R Shielded SMD Power Inductors

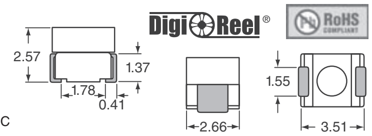

Specifications:
- Operating Temperature Range: -55°C ~ 125°C

Inductance ±10% (µH)	DC Resist. Max. (Ω)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
0.47	0.100	1440	SP1210R-471KCT-ND	3.91	3.72	2.42	SP1210R-471KTR-ND	1302.00	SP1210R-471K
0.56	0.109	1380	SP1210R-561KCT-ND	3.91	3.72	2.42	SP1210R-561KTR-ND	1302.00	SP1210R-561K
0.68	0.119	1320	SP1210R-681KCT-ND	3.91	3.72	2.42	SP1210R-681KTR-ND	1304.80	SP1210R-681K
0.82	0.133	1250	SP1210R-821KCT-ND	3.91	3.72	2.42	SP1210R-821KTR-ND	1302.00	SP1210R-821K
1.00	0.147	1190	SP1210R-102KCT-ND	3.91	3.72	2.42	SP1210R-102KTR-ND	1302.00	SP1210R-102K
1.20	0.160	1140	SP1210R-122KCT-ND	3.91	3.72	2.42	SP1210R-122KTR-ND	1302.00	SP1210R-122K
1.5	0.175	1080	SP1210R-152KCT-ND	3.91	3.72	2.42	SP1210R-152KTR-ND	1302.00	SP1210R-152K
1.80	0.195	1030	SP1210R-182KCT-ND	3.91	3.72	2.42	SP1210R-182KTR-ND	1302.00	SP1210R-182K
2.20	0.211	992	SP1210R-222KCT-ND	3.91	3.72	2.42	SP1210R-222KTR-ND	1302.00	SP1210R-222K
2.70	0.305	826	SP1210R-272KCT-ND	3.91	3.72	2.42	SP1210R-272KTR-ND	1302.00	SP1210R-272K
3.30	0.440	692	SP1210R-332KCT-ND	3.91	3.72	2.42	SP1210R-332KTR-ND	1302.00	SP1210R-332K
3.90	0.470	665	SP1210R-392KCT-ND	3.91	3.72	2.42	SP1210R-392KTR-ND	1302.00	SP1210R-392K
4.70	0.520	633	SP1210R-472KCT-ND	3.91	3.72	2.42	SP1210R-472KTR-ND	1302.00	SP1210R-472K
5.60	0.570	606	SP1210R-562KCT-ND	3.91	3.72	2.42	SP1210R-562KTR-ND	1302.00	SP1210R-562K
6.80	0.630	576	SP1210R-682KCT-ND	3.91	3.72	2.42	SP1210R-682KTR-ND	1302.00	SP1210R-682K
8.20	0.880	487	SP1210R-822KCT-ND	3.91	3.72	2.42	SP1210R-822KTR-ND	1302.00	SP1210R-822K
10.0	0.960	464	SP1210R-103KCT-ND	3.91	3.72	2.42	SP1210R-103KTR-ND	1302.00	SP1210R-103K
12.0	1.3	400	SP1210R-123KCT-ND	3.91	3.72	2.42	SP1210R-123KTR-ND	1302.00	SP1210R-123K
15.0	1.8	338	SP1210R-153KCT-ND	3.91	3.72	2.42	SP1210R-153KTR-ND	1302.00	SP1210R-153K
18.0	2.0	322	SP1210R-183KCT-ND	3.91	3.72	2.42	SP1210R-183KTR-ND	1302.00	SP1210R-183K
22.0	2.2	306	SP1210R-223KCT-ND	3.91	3.72	2.42	SP1210R-223KTR-ND	1302.00	SP1210R-223K
27.0	2.5	291	SP1210R-273KCT-ND	3.91	3.72	2.42	SP1210R-273KTR-ND	1302.00	SP1210R-273K
33.0	3.5	243	SP1210R-333KCT-ND	3.91	3.72	2.42	SP1210R-333KTR-ND	1302.00	SP1210R-333K
39.0	4.6	212	SP1210R-393KCT-ND	3.91	3.72	2.42	SP1210R-393KTR-ND	1302.00	SP1210R-393K
47.0	5.0	203	SP1210R-473KCT-ND	3.91	3.72	2.42	SP1210R-473KTR-ND	1302.00	SP1210R-473K
56.0	5.5	194	SP1210R-563KCT-ND	3.91	3.72	2.42	SP1210R-563KTR-ND	1302.00	SP1210R-563K
68.0	6.1	185	SP1210R-683KCT-ND	3.91	3.72	2.42	SP1210R-683KTR-ND	1302.00	SP1210R-683K
82.0	7.9	162	SP1210R-823KCT-ND	3.91	3.72	2.42	SP1210R-823KTR-ND	1302.00	SP1210R-823K
100	8.7	154	SP1210R-104KCT-ND	3.91	3.72	2.42	SP1210R-104KTR-ND	1302.00	SP1210R-104K
120	9.6	147	SP1210R-124KCT-ND	3.91	3.72	2.42	SP1210R-124KTR-ND	1302.00	SP1210R-124K
150	13.5	124	SP1210R-154KCT-ND	3.91	3.72	2.42	SP1210R-154KTR-ND	1302.00	SP1210R-154K
180	14.7	119	SP1210R-184KCT-ND	3.91	3.72	2.42	SP1210R-184KTR-ND	1302.00	SP1210R-184K
220	20.7	100	SP1210R-224KCT-ND	3.91	3.72	2.42	SP1210R-224KTR-ND	1302.00	SP1210R-224K
270	23.0	95	SP1210R-274KCT-ND	3.91	3.72	2.42	SP1210R-274KTR-ND	1302.00	SP1210R-274K
330	26.8	88	SP1210R-334KCT-ND	3.91	3.72	2.42	SP1210R-334KTR-ND	1302.00	SP1210R-334K
390	32.4	80	SP1210R-394KCT-ND	3.91	3.72	2.42	SP1210R-394KTR-ND	1302.00	SP1210R-394K

NEW! Series SP1812R Shielded SMD Power Inductors

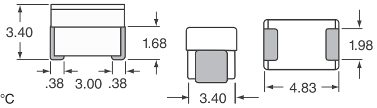

Specifications:
- Operating Temperature Range: -55°C ~ 125°C

Inductance ±10% (µH)	DC Resist. Max. (Ω)	Curr. Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
1.00	0.081	1580	SP1812R-102KCT-ND	4.41	4.20	2.73	SP1812R-102KTR-ND	1470.00	SP1812R-102K
1.20	0.088	1510	SP1812R-122KCT-ND	4.41	4.20	2.73	SP1812R-122KTR-ND	1470.00	SP1812R-122K
1.50	0.098	1430	SP1812R-152KCT-ND	4.41	4.20	2.73	SP1812R-152KTR-ND	1470.00	SP1812R-152K
1.80	0.11	1360	SP1812R-182KCT-ND	4.41	4.20	2.73	SP1812R-182KTR-ND	1470.00	SP1812R-182K
2.20	0.15	1170	SP1812R-222KCT-ND	4.41	4.20	2.73	SP1812R-222KTR-ND	1470.00	SP1812R-222K
2.70	0.16	1110	SP1812R-272KCT-ND	4.41	4.20	2.73	SP1812R-272KTR-ND	1470.00	SP1812R-272K
3.30	0.18	1060	SP1812R-332KCT-ND	3.91	3.73	2.43	SP1812R-332KTR-ND	1470.00	SP1812R-332K
3.90	0.20	1000	SP1812R-392KCT-ND	2.25	2.15	1.40	SP1812R-392KTR-ND	1470.00	SP1812R-392K
4.70	0.21	969	SP1812R-472KCT-ND	4.41	4.20	2.73	SP1812R-472KTR-ND	1470.00	SP1812R-472K
5.60	0.24	920	SP1812R-562KCT-ND	4.41	4.20	2.73	SP1812R-562KTR-ND	1470.00	SP1812R-562K
6.80	0.26	878	SP1812R-682KCT-ND	4.41	4.20	2.73	SP1812R-682KTR-ND	1470.00	SP1812R-682K
8.20	0.28	842	SP1812R-822KCT-ND	4.41	4.20	2.73	SP1812R-822KTR-ND	1470.00	SP1812R-822K
10.0	0.31	802	SP1812R-103KCT-ND	4.41	4.20	2.73	SP1812R-103KTR-ND	1470.00	SP1812R-103K
12.0	0.34	767	SP1812R-123KCT-ND	4.41	4.20	2.73	SP1812R-123KTR-ND	1470.00	SP1812R-123K
15.0	0.49	640	SP1812R-153KCT-ND	4.41	4.20	2.73	SP1812R-153KTR-ND	1470.00	SP1812R-153K
18.0	0.68	613	SP1812R-183KCT-ND	4.41	4.20	2.73	SP1812R-183KTR-ND	1470.00	SP1812R-183K
22.0	0.75	509	SP1812R-223KCT-ND	4.41	4.20	2.73	SP1812R-223KTR-ND	1470.00	SP1812R-223K
27.0	1.0	430	SP1812R-273KCT-ND	4.41	4.20	2.73	SP1812R-273KTR-ND	1470.00	SP1812R-273K
33.0	1.2	408	SP1812R-333KCT-ND	4.41	4.20	2.73	SP1812R-333KTR-ND	1470.00	SP1812R-333K
39.0	1.6	354	SP1812R-393KCT-ND	4.41	4.20	2.73	SP1812R-393KTR-ND	1470.00	SP1812R-393K
47.0	1.8	335	SP1812R-473KCT-ND	4.41	4.20	2.73	SP1812R-473KTR-ND	1470.00	SP1812R-473K
56.0	1.9	323	SP1812R-563KCT-ND	4.41	4.20	2.73	SP1812R-563KTR-ND	1470.00	SP1812R-563K
68.0	2.7	275	SP1812R-683KCT-ND	4.41	4.20	2.73	SP1812R-683KTR-ND	1470.00	SP1812R-683K
82.0	2.9	262	SP1812R-823KCT-ND	4.41	4.20	2.73	SP1812R-823KTR-ND	1470.00	SP1812R-823K
100	3.2	250	SP1812R-104KCT-ND	4.41	4.20	2.73	SP1812R-104KTR-ND	1470.00	SP1812R-104K
120	4.6	210	SP1812R-124KCT-ND	4.41	4.20	2.73	SP1812R-124KTR-ND	1470.00	SP1812R-124K
150	5.1	198	SP1812R-154KCT-ND	4.41	4.20	2.73	SP1812R-154KTR-ND	1470.00	SP1812R-154K
180	6.7	172	SP1812R-184KCT-ND	4.41	4.20	2.73	SP1812R-184KTR-ND	1470.00	SP1812R-184K
220	7.5	164	SP1812R-224KCT-ND	4.41	4.20	2.73	SP1812R-224KTR-ND	1470.00	SP1812R-224K
270	9.8	143	SP1812R-274KCT-ND	4.41	4.20	2.73	SP1812R-274KTR-ND	1470.00	SP1812R-274K
330	10.9	136	SP1812R-334KCT-ND	4.41	4.20	2.73	SP1812R-334KTR-ND	1470.00	SP1812R-334K

Series DC630 High Current Power Line Chokes

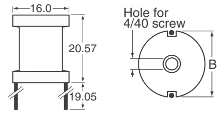

Features: • Insulated ferrite bobbin protected with a flame retardant polyolefin sleeve • Center hole allows for mechanical mounting
Specifications: • Operating Temperature: -55°C ~ 125°C (-55°C ~ 80°C @ full rated current) • Power Dissipation at 80°C: 1.0W

Nominal Inductance (µH)	Induct. Tolerance	Max. Current Rating (A)	Max. DC Resistance (Ω)	Dim. B (mm)	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
1.0	±20%	14.0	.003	12.45	DN4758-ND	3.89	3.33	2.78	DC630R-102M
1.5	±20%	13.5	.004	12.45	DN4763-ND	3.89	3.33	2.78	DC630R-152M
2.2	±20%	12.8	.005	12.45	DN4768-ND	3.89	3.33	2.78	DC630R-222M
2.7	±20%	12.8	.005	12.45	DN4771-ND	3.89	3.33	2.78	DC630R-272M
3.3	±20%	12.8	.005	12.45	DN4774-ND	3.89	3.33	2.78	DC630R-332M
3.9	±20%	12.3	.006	12.45	DN4777-ND	3.89	3.33	2.78	DC630R-392M
4.7	±20%	11.7	.007	12.45	DN4780-ND	3.89	3.33	2.78	DC630R-472M
5.6	±20%	11.7	.007	12.45	DN4783-ND	3.89	3.33	2.78	DC630R-562M
6.8	±20%	10.5	.008	12.45	DN4786-ND	3.89	3.33	2.78	DC630R-682M
8.2	±20%	10.0	.009	12.45	DN4789-ND	3.89	3.33	2.78	DC630R-822M
10	±10%	9.5	.010	12.45	DN4759-ND	5.18	4.44	3.70	DC630R-103K
12	±10%	9.1	.011	12.45	DN4761-ND	5.18	4.44	3.70	DC630R-123K
15	±10%	8.09	.015	11.94	DN4764-ND	5.18	4.44	3.70	DC630R-153K
18	±10%	7.0	.02	11.68	DN4766-ND	5.18	4.44	3.70	DC630R-183K
22	±10%	6.26	.025	11.68	DN4769-ND	5.18	4.44	3.70	DC630R-223K
27	±10%	5.72	.030	11.18	DN4772-ND	5.18	4.44	3.70	DC630R-273K
33	±10%	4.95	.040	10.92	DN4775-ND	5.18	4.44	3.70	DC630R-333K
39	±10%	4.43	.050	10.67	DN4778-ND	5.18	4.44	3.70	DC630R-393K
47	±10%	3.98	.062	12.19	DN4781-ND	5.18	4.44	3.70	DC630R-473K
56	±10%	3.77	.069	12.19	DN4784-ND	5.18	4.44	3.70	DC630R-563K
68	±10%	3.57	.077	12.19	DN4787-ND	5.18	4.44	3.70	DC630R-683K
82	±10%	3.44	.083	12.19	DN4790-ND	5.18	4.44	3.70	DC630R-823K
100	±10%	3.21	.095	12.19	DN4760-ND	5.18	4.44	3.70	DC630R-104K
120	±10%	3.12	.100	12.19	DN4762-ND	5.18	4.44	3.70	DC630R-124K
150	±10%	2.97	.111	12.19	DN4765-ND	5.18	4.44	3.70	DC630R-154K
180	±10%	2.80	.125	12.19	DN4767-ND	5.18	4.44	3.70	DC630R-184K
220	±10%	2.42	.168	11.94	DN4770-ND	5.18	4.44	3.70	DC630R-224K
270	±10%	2.09	.225	11.43	DN4773-ND	5.18	4.44	3.70	DC630R-274K
330	±10%	1.72	.315	11.43	DN4776-ND	5.18	4.44	3.70	DC630R-334K
390	±10%	1.66	.342	12.19	DN4779-ND	5.18	4.44	3.70	DC630R-394K
470	±10%	1.58	.377	12.19	DN4782-ND	5.18	4.44	3.70	DC630R-474K
560	±10%	1.52	.408	12.19	DN4785-ND	5.18	4.44	3.70	DC630R-564K
680	±10%	1.42	.468	12.19	DN4788-ND	5.18	4.44	3.70	DC630R-684K

Series DC780 High Current Power Line Chokes

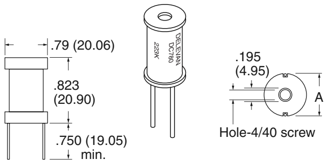

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. Center hole allows for mechanical mounting. Insulated bobbins. **Operating Temperature:** -55°C ~ 125°C, -55°C ~ 80°C @ full rated current

Nominal Inductance (µH)	Max. DCR (Ω)	Maximum Rated Current (ADC)	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
Series DC780, ±15%								
1.0	0.003	11.4	.620 (15.748)	DN7841-ND◆	4.03	3.45	2.88	DC780R-102L
3.9	0.005	11.4	.620 (15.748)	DN2407-ND	4.03	3.45	2.88	DC780-392L
8.2	0.007	11.4	.620 (15.748)	DN7854-ND◆	4.03	3.45	2.88	DC780R-822L
Series DC780, ±10%								
10	0.009	11.4	.620 (15.748)	DN7842-ND◆	5.39	4.62	3.85	DC780R-103K
22	0.019	7.2	.630 (16.002)	DN2416-ND	5.39	4.62	3.85	DC780-223K
22	0.019	7.2	.630 (16.002)	DN7847-ND◆	5.39	4.62	3.85	DC780R-223K
33	0.029	5.5	.546 (13.868)	DN7850-ND◆	5.39	4.62	3.85	DC780R-333K
56	0.039	5.5	.625 (15.875)	DN7852-ND◆	5.39	4.62	3.85	DC780R-563K
100	0.080	4.0	.593 (15.062)	DN7843-ND◆	5.39	4.62	3.85	DC780R-104K
150	0.098	4.0	.593 (15.062)	DN7845-ND◆	5.39	4.62	3.85	DC780R-154K
180	0.110	4.0	.593 (15.062)	DN7846-ND◆	5.39	4.62	3.85	DC780R-184K
220	0.150	2.8	.593 (15.062)	DN7848-ND◆	5.39	4.62	3.85	DC780R-224K
330	0.305	1.6	.590 (14.986)	DN7851-ND◆	5.39	4.62	3.85	DC780R-334K
560	0.388	1.6	.590 (14.986)	DN7853-ND◆	5.39	4.62	3.85	DC780R-564K
2,200	1.540	0.8	.590 (14.986)	DN7849-ND◆	5.39	4.62	3.85	DC780R-225K

◆ ***RoHS Compliant***

(Continued)

Series CM6296 Surface Mount Common Mode Chokes

Features: • Flat top surface mount case with excellent coplanarity of terminals **Specifications:** Operating Temperature: -55°C ~ 125°C • Maximum Power Dissipation @ 25°C: 2.5W • Inductance Test Frequency: 1KHz

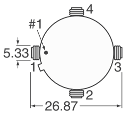

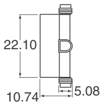

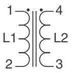

Inductance ±25% (µH)	Maximum Current Rating (A)	Max. DC Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
25	10	.014	DN4724-ND	12.15	10.41	6.94	CM6296R-253
50	10	.014	DN4728-ND	12.15	10.41	6.94	CM6296R-503
100	9.5	.016	DN4719-ND	12.15	10.41	6.94	CM6296R-104
150	9.5	.016	DN4721-ND	12.15	10.41	6.94	CM6296R-154
200	8.5	.016	DN4723-ND	12.15	10.41	6.94	CM6296R-204
300	7.5	.020	DN4726-ND	12.15	10.41	6.94	CM6296R-304
450	6.5	.024	DN4727-ND	12.15	10.41	6.94	CM6296R-454
650	5.5	.030	DN4729-ND	12.15	10.41	6.94	CM6296R-654
1000	3.5	.050	DN4720-ND	12.15	10.41	6.94	CM6296R-105
1500	2.5	.090	DN4722-ND	12.15	10.41	6.94	CM6296R-155
2500	2.2	.162	DN4725-ND	12.15	10.41	6.94	CM6296R-255

Series CM6460 Surface Mount Common Mode Chokes

Features: • Excellent coplanarity of terminals **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Maximum Power Dissipation at 25°C: .605W • Test Frequency: 10kHz

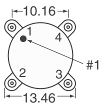

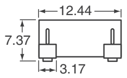

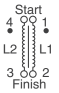

Inductance ±25% (µH)	Rated RMS Current (A)	Maximum DCR (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100	7.0	.006	DN4730-ND	11.90	10.20	6.80	CM6460R-104
150	5.5	.010	DN4734-ND	11.90	10.20	6.80	CM6460R-154
220	5.0	.012	DN4736-ND	11.90	10.20	6.80	CM6460R-224
330	4.0	.017	DN4738-ND	11.90	10.20	6.80	CM6460R-334
500	3.3	.024	DN4740-ND	11.90	10.20	6.80	CM6460R-504
750	2.7	.035	DN4742-ND	11.90	10.20	6.80	CM6460R-754
1000	2.2	.049	DN4731-ND	11.90	10.20	6.80	CM6460R-105
1200	1.7	.068	DN4733-ND	11.90	10.20	6.80	CM6460R-125
1800	1.4	.106	DN4735-ND	11.90	10.20	6.80	CM6460R-185
2200	1.1	.150	DN4737-ND	11.90	10.20	6.80	CM6460R-225
3300	.85	.210	DN4739-ND	11.90	10.20	6.80	CM6460R-335
5000	.70	.320	DN4741-ND	11.90	10.20	6.80	CM6460R-505
7500	.44	.640	DN4743-ND	11.90	10.20	6.80	CM6460R-755
10,000	.33	.900	DN4732-ND	11.90	10.20	6.80	CM6460R-106

Series CM6560 Surface Mount Common Mode Chokes

Features: • Excellent coplanarity of terminals **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Maximum Power Dissipation at 25°C: .725W • Test Frequency: 10kHZ

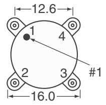

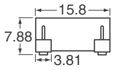

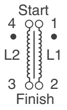

Inductance ±25% (µH)	Rated RMS Current (A)	Maximum DCR (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100	8.5	.005	DN4744-ND	17.33	14.85	9.90	CM6560R-104
180	7	.007	DN4749-ND	17.33	14.85	9.90	CM6560R-184
330	4.8	.015	DN4752-ND	17.33	14.85	9.90	CM6560R-334
500	3.6	.023	DN4754-ND	17.33	14.85	9.90	CM6560R-504
750	3.0	.034	DN4756-ND	17.33	14.85	9.90	CM6560R-754
1000	2.4	.047	DN4745-ND	17.33	14.85	9.90	CM6560R-105
1800	1.9	.08	DN4750-ND	17.33	14.85	9.90	CM6560R-185
2200	1.5	.105	DN4751-ND	17.33	14.85	9.90	CM6560R-225
3300	1.2	.160	DN4753-ND	17.33	14.85	9.90	CM6560R-335
5000	0.95	.240	DN4755-ND	17.33	14.85	9.90	CM6560R-505
10,000	0.55	.530	DN4746-ND	17.33	14.85	9.90	CM6560R-106
12,000	0.45	.730	DN4747-ND	17.33	14.85	9.90	CM6560R-126
15,000	0.35	1.05	DN4748-ND	17.33	14.85	9.90	CM6560R-156

Series CM9900 PC Mount Common Mode Chokes

Operating Temperature Range: -55°C ~ 125°C **Current Rating at 80°C Ambient:** 40°C Rise **Mechanical Configuration:** Tape wrapped winding sections; varnish impregnated assembly

Notes: (1) Leakage inductance tested at L1 with L2 shorted or at L2 with L1 shorted (2) Windings balanced within 1%

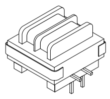

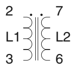

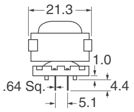

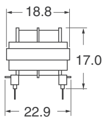

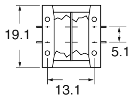

Inductance (µH) L1 or L2	Current Rating Max. (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
820	1.1	DN4614-ND	4.20	3.60	2.40	CM9900-824

Series CM6149

Surface Mount Low Profile Common Mode Chokes / Isolation Transformers

Operating Temperature Range: -55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .200W

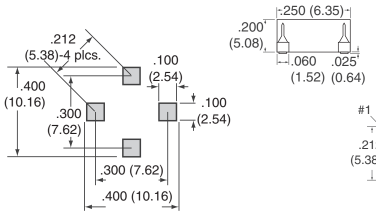

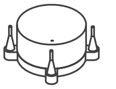

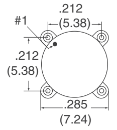

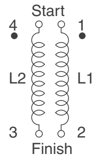

Inductance ±25% (µH) L1 or L2	Max. DCR (Ω)	Rated RMS Current (Amps DC) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
68	.020	2.0	DN42145-ND◆	12.53	10.74	7.16	CM6149R-683
100	.030	1.6	DN42143-ND◆	12.53	10.74	7.16	CM6149R-104
330	.090	.75	DN12831-ND	12.53	10.74	7.16	CM6149-334
2,200	.750	.18	DN42144-ND◆	12.53	10.74	7.16	CM6149R-225

◆ ***RoHS Compliant***

Series CM6350

Surface Mount Common Mode Chokes

Operating Temperature Range: -55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .400W

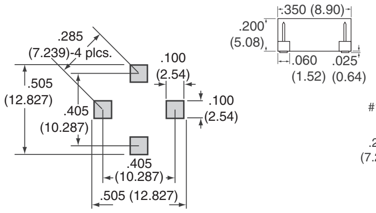

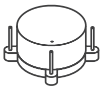

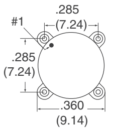

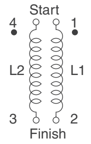

Inductance ±25% (µH) L1 or L2	Maximum DCR (Ω)	Rated RMS Current (Amps) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
33	0.007	5.50	DN42151-ND	9.52	8.16	5.44	CM6350R-333
47	0.008	5.00	DN42154-ND	9.52	8.16	5.44	CM6350R-473
68	0.010	4.20	DN42157-ND	9.52	8.16	5.44	CM6350R-683
100	0.014	3.30	DN42146-ND	9.52	8.16	5.44	CM6350R-104
220	0.027	2.20	DN42149-ND	9.52	8.16	5.44	CM6350R-224
330	0.040	1.80	DN42152-ND	9.52	8.16	5.44	CM6350R-334
470	0.060	1.50	DN42155-ND	9.52	8.16	5.44	CM6350R-474
680	0.090	1.20	DN42158-ND	9.52	8.16	5.44	CM6350R-684
1,000	0.130	0.90	DN42147-ND	9.52	8.16	5.44	CM6350R-105
1,500	0.190	0.75	DN42148-ND	9.52	8.16	5.44	CM6350R-155
2,200	0.300	0.60	DN42150-ND	9.52	8.16	5.44	CM6350R-225
3,300	0.550	0.40	DN42153-ND	9.52	8.16	5.44	CM6350R-335
4,700	1.050	0.25	DN42156-ND	9.52	8.16	5.44	CM6350R-475

(Continued)

Series 4426 Surface Mount Air Core Inductors

High Q, wire wound air cores designed to operate over a wide frequency range. Flat cap top is suitable for automatic placement.
Operating Temperature Range: -55°C ~ 125°C

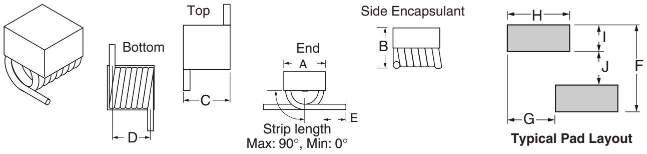

Typical Pad Layout

	Size A		Size B	
	(Inch)	(mm)	(Inch)	(mm)
A Max.	.120	3.05	.120	3.05
B Max.	.125	3.18	.125	3.18
C Max.	.145	3.68	.270	6.86
D	.115±.010	2.92±.25	.230±.010	5.84±.25
E	.05±.015	1.27±.38	.05±.015	1.27±.38
F	.165	4.19	.285	7.23
G	.110	2.79	.110	2.79
H	.130	3.30	.130	3.30
I	.050	1.27	.050	1.27
J	.065	1.65	.185	4.69

Size Code	Induct. (nH)	Turns	Q Min.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	API Delevan Part No.
Series 4426 Air Core Inductors											
A	2.5 ±10%	1	145	DN7739CT-ND◆	.97	.92	.60	DN7739TR-ND◆	650	231.73	4426R-1
	5.0 ±10%	2	140	DN7741CT-ND◆	.97	.92	.60	DN7741TR-ND◆	650	231.73	4426R-2
	8.0 ±5%	3	140	DN7742CT-ND◆	.97	.92	.60	DN7742TR-ND◆	650	231.73	4426R-3
	12.5 ±5%	4	137	DN7743CT-ND◆	.97	.92	.60	DN7743TR-ND◆	650	231.73	4426R-4
	18.5 ±5%	5	132	DN7744CT-ND◆	.97	.92	.60	DN7744TR-ND◆	650	231.73	4426R-5
B	22.0 ±5%	7	102	DN7745CT-ND◆	.97	.92	.60	DN7745TR-ND◆	400	142.60	4426R-7
	28.0 ±5%	8	105	DN4008CT-ND	.97	.92	.60	—	—	—	4426-8
	28.0 ±5%	8	105	DN7746CT-ND◆	.97	.92	.60	DN7746TR-ND◆	400	142.60	4426R-8
	35.5 ±5%	9	112	DN7747CT-ND◆	.97	.92	.60	DN7747TR-ND◆	400	142.60	4426R-9
	43.0 ±5%	11	106	DN7740CT-ND◆	.97	.92	.60	DN7740TR-ND◆	400	142.60	4426R-10

4426RKIT-ND◆ (4426RKIT) **Series 4426 Inductor Kit**
5 each of 10 values (2.5nH to 43nH), 50 total pieces **$147.00**
◆ ***RoHS Compliant***

Series SMB 2.5 Surface Mount Shield Beads

High resistivity ferrite material eliminates the need to insulate windings.
Lead wire is plated copper. **Operating Temperature Range:** -40°C ~ 125°C

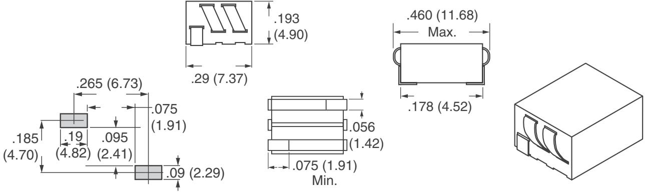

API Delevan Part No.	Turns	Minimum Impedance (Ohms) 10 MHz	100 MHz	150 MHz	220 MHz	Idc Max. (Amps)	DCR Max. (Ohms)
SMB2.5-1	2 1/2	210	385	400	375	9.5	0.005
SMB2.5-2	2 1/2	NA	490	635	650	9.5	0.005

Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape & Reel Pricing 700	API Delevan Part No.
DN7957CT-ND	.92	.75	.60	DN7957TR-ND	249.55	SMB2.5R-1
DN7958CT-ND	.92	.75	.60	DN7958TR-ND	249.55	SMB2.5R-2

Series 4221 Surface Mount Filter Beads

Specifications:
- Operating Temperature Range: -55°C ~ 125°C
- Current Rating: 5A maximum
- Material: Ferrite bead with plated copper lead

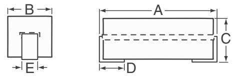

Impedance (Ω) @25MHz	@100MHz	Dimensions — mm A	B	C	D	E	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Pricing 500	API Delevan Part No.
22	47	5.0	3.05	3.05	1.5	1.25	DN4702CT-ND	.55	5.20	33.80	100.75	4221R-1
45	95	9.5	3.05	3.05	1.5	1.25	DN4703CT-ND	.55	5.20	33.80	100.75	4221R-2
22	42	5.5	2.97	3.5	1.5	1.25	DN4704CT-ND	.55	5.20	33.80	100.75	4221R-3
43	85	8.9	4.75	3.5	1.5	1.85	DN4705CT-ND	.55	5.20	33.80	100.75	4221R-4

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Series BF Split Ferrite Suppressors for Round Cables

One of the most versatile and cost effective shielding methods that can be used today is the API Delevan bisected ferrite cable snap assembly. The bisected styling, or familiar clamshell enclosure design, offers the ultimate in adaptability. The RF absorbing material interacts directly with unwanted high frequency energy and dissipates it effectively while allowing data signals to pass unimpeded.

All plastic and adhesive components are UL Recognized with Flammability Ratings of UL94V-0, UL-510 or UL-746C. Color is black.

Fig. 1

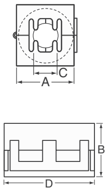

Fig. 2

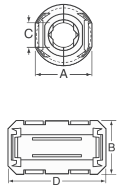

Fig. 3

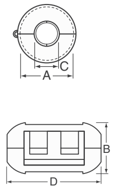

Fig. 4

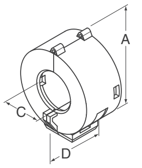

Fig. 5

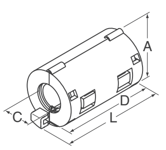

Fig.	Impedance (Ω) @25MHz	@100MHz	Dimensions – mm A	B	C	D	L	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
1	136	250	22.3	23.3	10	32.6	—	DN4715-ND	2.98	2.55	1.70	BF2223
	155	257	29.6	30.5	13	33	—	DN4716-ND	2.98	2.55	1.70	BF2930
	171	325	17.8	19.5	6.5	32.5	—	DN4710-ND	2.98	2.55	1.70	BF1719
2	96	154	11.7	13	5	25	—	DN4707-ND	2.03	1.74	1.16	BF1125-5
	112	172	18	19.7	9	35	—	DN4711-ND	2.03	1.74	1.16	BF1835
	139	191	11.7	13	3.5	25	—	DN4706-ND	2.03	1.74	1.16	BF1125-3
3	82	146	12.8	14.7	4	25	—	DN4708-ND	1.72	1.47	.98	BF1225
	85	157	14.5	15.7	5.6	29	—	DN4709-ND	1.72	1.47	.98	BF1429
4	41	95	31.5	—	15	15.2	—	DN4718-ND	1.86	1.59	1.06	BF3121
	42	94	21.5	—	8.15	16.8	—	DN4713-ND	1.86	1.59	1.06	BF2123
	50	107	21.5	—	8.15	19.7	—	DN4714-ND	1.86	1.59	1.06	BF2125
	51	103	30.5	—	11.4	17.7	—	DN4717-ND	1.86	1.59	1.06	BF3024
5	126	174	18.6	—	9	31	35.2	DN4712-ND	2.17	1.86	1.24	BF1835-9

Flexible Ferrite Absorbent Tubing

Features: • Provides effective EMI suppression in a wide frequency range (10MHz to 3GHz) • High electrical resistance (10^6 to 10^8) • Easy and fast to process • Extremely flexible • Six sizes to chose from • Can be incorporated into the over-molding process on cable assemblies • Eliminates the task of soldering braid • Effectively eliminates EMI and RFI problems on internal and external power, data and signal lines
Specifications: • Operating Temperature Range: -55°C ~ 125°C • Length: 1 meter

Inside Diameter (mm)	Outside Diameter (mm)	Typical Impedance (Ω) @ 100MHz	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
1.8	2.9	140	DN41988-ND	19.53	16.74	11.16	FFAT32
4	5	138	DN41989-ND	20.62	17.67	11.78	FFAT54
5	6.5	132	DN41990-ND	46.41	39.78	26.52	FFAT65
6	9	134	DN41991-ND	84.14	72.12	48.08	FFAT96
7	11	137	DN41992-ND	104.69	89.73	59.82	FFAT117
10	14	149	DN41993-ND	125.86	107.88	71.92	FFAT1410

Flexible Ferrite Absorbent Material

Features: • Provides effective EMI suppression in a wide frequency range (10MHz to 3GHz) • Effective in preventing resonance and suppressing coupling • Ultra thin (.25mm through 2.5mm) • High electrical resistance (10^6 to 10^8 ohms) • Extremely flexible
Specifications: • Operating Temperature Range: -55°C ~ 125°C

Sheet Size (mm)	Sheet Thickness (mm)	Adhesive Backing	Impedance @ 100MHz	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100 x 100	0.25	Yes	55	DN41994-ND	14.11	12.09	8.06	FFAM025-1*1*T
	0.6	No	58	DN41995-ND	10.33	8.85	5.90	FFAM06-1*1
	0.6	Yes	58	DN41996-ND	11.76	10.08	6.72	FFAM06-1*1*T
	1.0	No	60	DN41997-ND	12.81	10.98	7.32	FFAM10-1*1
	1.0	Yes	60	DN41998-ND	14.21	12.18	8.12	FFAM10-1*1*T
	1.5	No	61	DN41999-ND	19.11	16.38	10.92	FFAM15-1*1
	1.5	Yes	61	DN42000-ND	20.55	17.61	11.74	FFAM15-1*1*T
	2.0	No	62	DN42001-ND	25.69	22.02	14.68	FFAM20-1*1
	2.0	Yes	62	DN42002-ND	27.16	23.28	15.52	FFAM20-1*1*T
	2.5	No	63	DN42003-ND	32.38	27.75	18.50	FFAM25-1*1
	2.5	Yes	63	DN42004-ND	33.85	29.01	19.34	FFAM25-1*1*T

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom WÜRTH ELEKTRONIK

WE-TPC Series — Shielded Low Profile Power Inductors

Digi-Reel® RoHS COMPLIANT

Features: • Extremely low height power inductor • High current capability • High reliability and perfect soldering characteristics because of an integrated soldering pad • Magnetically shielded which results in a low leakage field • Recommended solder profile: Reflow

Applications:
• Portable power devices like PDA, digital camera, PCMCIA cards and data displays • DC/DC converter • Embedded PC • Clocked power supply • Mobile data gathering, telemetric

Dimensions in mm

Fig. 1

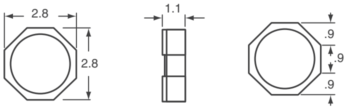

Fig. 2

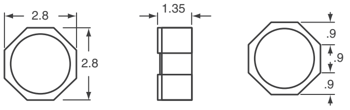

Fig. 3

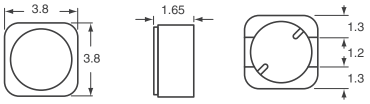

Fig. 4

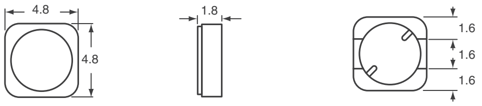

Fig. 5

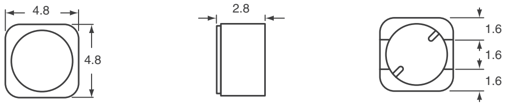

Fig.	Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Würth Part No.
					1	25	100	Qty.	Pricing	
T-Type										
1	0.11	0.018	4.6	732-1321-1-ND	2.04	1.71	1.45	—	—	74402800011
	0.33	0.035	3.0	732-1322-1-ND	2.04	1.71	1.45	—	—	74402800033
	0.47	0.042	2.5	732-1323-1-ND	2.04	1.71	1.45	—	—	74402800047
	0.82	0.065	2.2	732-1324-1-ND	2.04	1.71	1.45	—	—	74402800082
	3.3	0.220	1.1	732-1002-1-ND	2.04	1.71	1.45	1,500	682.00/M	744028003
	4.7	0.310	0.9	732-1003-1-ND	2.04	1.71	1.45	1,500	682.00/M	744028004
	6.8	0.400	0.83	732-1004-1-ND	2.04	1.71	1.45	—	—	744028006
	10	0.670	0.63	732-1092-1-ND	2.04	1.71	1.45	1,500	682.00/M	744028100
	15	0.830	0.55	732-2199-1-ND✔	2.04	1.70	1.45	1,500	680.00/M	744028150
	22	1.48	0.4	732-2200-1-ND✔	2.04	1.70	1.45	1,500	680.00/M	744028220
TH-Type										
2	0.11	0.016	5.0	732-1325-1-ND	2.11	1.76	1.50	—	—	74402900011
	0.33	0.029	3.2	732-1326-1-ND	2.11	1.76	1.50	—	—	74402900033
	0.47	0.037	2.8	732-1327-1-ND	2.11	1.76	1.50	—	—	74402900047
	0.82	0.045	2.6	732-1328-1-ND	2.11	1.76	1.50	—	—	74402900082
	1.0	0.055	2.5	732-1086-1-ND	2.11	1.76	1.50	1,200	703.00/M	744029001
	2.2	0.105	1.7	732-1087-1-ND	2.11	1.76	1.50	1,200	703.00/M	744029002
	3.3	0.130	1.4	732-1088-1-ND	2.11	1.76	1.50	1,200	703.00/M	744029003
	4.7	0.200	1.2	732-1089-1-ND	2.11	1.76	1.50	1,200	703.00/M	744029004
	6.8	0.300	0.95	732-1090-1-ND	2.11	1.76	1.50	—	—	744029006
	10	0.470	0.75	732-1091-1-ND	2.11	1.76	1.50	1,200	703.00/M	744029100
	15	0.700	0.58	732-2201-1-ND✔	2.10	1.75	1.49	1,200	700.00/M	744029150
	22	0.970	0.48	732-2202-1-ND✔	2.10	1.75	1.49	1,200	700.00/M	744029220
	33	1.54	0.30	732-2203-1-ND✔	2.10	1.75	1.49	1,200	700.00/M	744029330
	47	2.50	0.30	732-2204-1-ND✔	2.10	1.75	1.49	1,200	700.00/M	744029470
S-Type										
3	1.5	0.047	1.75	732-1005-1-ND	1.92	1.60	1.36	1,000	639.00	744031001
	2.5	0.058	1.45	732-1006-1-ND	1.92	1.60	1.36	1,000	639.00	744031002
	3.6	0.085	1.38	732-1007-1-ND	1.92	1.60	1.36	1,000	639.00	744031003
	4.7	0.105	1.2	732-1008-1-ND	1.92	1.60	1.36	1,000	639.00	744031004
	6.8	0.156	0.85	732-1009-1-ND	1.92	1.60	1.36	1,000	639.00	744031006
	10	0.205	0.74	732-1010-1-ND	1.92	1.60	1.36	1,000	639.00	744031100
	15	0.285	0.62	732-1011-1-ND	1.92	1.60	1.36	1,000	639.00	744031150
	22	0.450	0.51	732-1012-1-ND	1.92	1.60	1.36	1,000	639.00	744031220
	33	0.660	0.42	732-1013-1-ND	1.92	1.60	1.36	1,000	639.00	744031330
	47	1.0	0.39	732-1014-1-ND	1.92	1.60	1.36	1,000	639.00	744031470
	100	2.4	0.25	732-1015-1-ND	1.92	1.60	1.36	—	—	744031101
M-Type										
4	1.0	0.030	2.7	732-1016-1-ND	1.85	1.55	1.32	800	592.80	744042001
	1.8	0.058	2.35	732-1017-1-ND	1.85	1.55	1.32	800	592.80	7440420018
	2.7	0.06	2.03	732-1018-1-ND	1.85	1.55	1.32	800	592.80	7440420027
	3.3	0.065	1.95	732-1019-1-ND	1.85	1.55	1.32	800	592.80	744042003
	3.9	0.075	1.82	732-1020-1-ND	1.85	1.55	1.32	—	—	7440420039
	4.7	0.082	1.72	732-1021-1-ND	1.85	1.55	1.32	800	592.80	744042004
	5.6	0.09	1.64	732-1022-1-ND	1.85	1.55	1.32	—	—	744042005
	6.8	0.1	1.5	732-1023-1-ND	1.85	1.55	1.32	800	592.80	744042006
	8.2	0.135	1.4	732-1024-1-ND	1.85	1.55	1.32	800	592.80	744042008
	10	0.15	1.3	732-1025-1-ND	1.85	1.55	1.32	800	592.80	744042100
MH-Type										
5	1.2	0.020	3.1	732-1093-1-ND	2.04	1.71	1.45	500	426.00	7440430012
	1.8	0.025	2.7	732-1094-1-ND	2.04	1.71	1.45	—	—	7440430018
	2.2	0.028	2.5	732-1095-1-ND	2.04	1.71	1.45	500	426.00	7440430022
	2.7	0.03	2.35	732-1096-1-ND	2.04	1.71	1.45	—	—	7440430027
	3.3	0.035	2.15	732-1097-1-ND	2.04	1.71	1.45	500	426.00	744043003
	3.9	0.06	1.72	732-1098-1-ND	2.04	1.71	1.45	—	—	7440430039
	4.7	0.07	1.55	732-1099-1-ND	2.04	1.71	1.45	500	426.00	744043004
	6.8	0.09	1.3	732-1101-1-ND	2.04	1.71	1.45	500	426.00	744043006
	8.2	0.1	1.25	732-1102-1-ND	2.04	1.71	1.45	500	426.00	744043008
	10	0.11	1.19	732-1103-1-ND	2.04	1.71	1.45	500	426.00	744043100
	12	0.125	1.12	732-1104-1-ND	2.04	1.71	1.45	500	426.00	744043120
	15	0.15	1.03	732-1105-1-ND	2.04	1.71	1.45	500	426.00	744043150
	18	0.16	0.98	732-1106-1-ND	2.04	1.71	1.45	—	—	744043180
	22	0.185	0.925	732-1107-1-ND	2.04	1.71	1.45	500	426.00	744043220
	33	0.230	0.82	732-1108-1-ND	2.04	1.71	1.45	500	426.00	744043330
	47	0.280	0.75	732-1109-1-ND	2.04	1.71	1.45	500	426.00	744043470
	68	0.400	0.63	732-1110-1-ND	2.04	1.71	1.45	500	426.00	744043680
	100	0.600	0.51	732-1111-1-ND	2.04	1.71	1.45	500	426.00	744043101
L-Type										
6	1.2	0.03	3.0	732-1026-1-ND	2.04	1.71	1.45	—	—	7440520012
	1.8	0.035	2.6	732-1027-1-ND	2.04	1.71	1.45	500	426.00	7440520018
	2.5	0.04	2.4	732-1028-1-ND	2.04	1.71	1.45	500	426.00	744052002
	3.0	0.045	2.2	732-1029-1-ND	2.04	1.71	1.45	500	426.00	744052003
	5.0	0.06	1.65	732-1031-1-ND	2.04	1.71	1.45	500	426.00	744052005
6	6.2	0.08	1.45	732-1032-1-ND	2.04	1.71	1.45	—	—	744052006
	7.5	0.09	1.35	732-1033-1-ND	2.04	1.71	1.45	—	—	744052007
	9.0	0.11	1.25	732-1034-1-ND	2.04	1.71	1.45	—	—	744052009
	10	0.13	1.1	732-1035-1-ND	2.04	1.71	1.45	500	426.00	744052100
LH-Type										
7	2.6	0.03	3.0	732-1036-1-ND	2.24	1.87	1.59	400	410.00	744053002
	4.0	0.035	2.5	732-1038-1-ND	2.10	1.75	1.49	—	—	744053004
	4.7	0.038	2.4	732-1039-1-ND	2.24	1.87	1.59	400	410.00	7440530047
	5.3	0.04	2.3	732-1040-1-ND	2.24	1.87	1.59	—	—	744053005
	6.2	0.045	2.2	732-1041-1-ND	2.24	1.87	1.59	400	410.00	744053006
	8.2	0.055	2.1	732-1042-1-ND	2.24	1.87	1.59	400	410.00	744053008
	10	0.07	1.5	732-1043-1-ND	2.24	1.87	1.59	400	410.00	744053100
	12	0.08	1.46	732-1044-1-ND	2.24	1.87	1.59	—	—	744053120
	15	0.1	1.38	732-1045-1-ND	2.24	1.87	1.59	400	410.00	744053150
	18	0.11	1.25	732-1046-1-ND	2.24	1.87	1.59	400	410.00	744053180
	22	0.12	1.15	732-1047-1-ND	2.24	1.87	1.59	400	410.00	744053220
	27	0.16	1.05	732-1048-1-ND	2.24	1.87	1.59	400	410.00	744053270
	33	0.19	0.90	732-1049-1-ND	2.24	1.87	1.59	400	410.00	744053330
	47	0.25	0.82	732-1050-1-ND	2.24	1.87	1.59	400	410.00	744053470
	68	0.35	0.62	732-1051-1-ND	2.24	1.87	1.59	400	410.00	744053680
	100	0.48	0.45	732-1052-1-ND	2.24	1.87	1.59	400	410.00	744053101
XL-Type										
8	1.0	0.0065	8.0	732-1053-1-ND	2.49	2.08	1.77	—	—	744065001
	1.5	0.01	7.2	732-1054-1-ND	2.49	2.08	1.77	—	—	7440650015
	2.2	0.015	6.2	732-1055-1-ND	2.49	2.08	1.77	1,000	831.00	7440650022
	3.3	0.02	5.3	732-1056-1-ND	2.49	2.08	1.77	—	—	7440650033
	4.7	0.023	4.6	732-1057-1-ND	2.49	2.08	1.77	1,000	831.00	7440650047
	6.8	0.033	4.2	732-1058-1-ND	2.49	2.08	1.77	1,000	831.00	7440650068
	8.2	0.037	3.8	732-1059-1-ND	2.49	2.08	1.77	—	—	7440650082
	10	0.053	3.0	732-1060-1-ND	2.49	2.08	1.77	1,000	831.00	744065100
	15	0.09	2.2	732-1061-1-ND	2.49	2.08	1.77	—	—	744065150
	22	0.135	1.8	732-1062-1-ND	2.49	2.08	1.77	—	—	744065220
	33	0.18	1.6	732-1063-1-ND	2.49	2.08	1.77	—	—	744065330
	47	0.23	1.4	732-1064-1-ND	2.49	2.08	1.77	—	—	744065470
	56	0.27	1.25	732-1065-1-ND	2.49	2.08	1.77	—	—	744065560
	68	0.3	1.2	732-1066-1-ND	2.49	2.08	1.77	—	—	744065680
	82	0.42	1.1	732-1067-1-ND	2.49	2.08	1.77	—	—	744065820
	100	0.47	1.0	732-1068-1-ND	2.49	2.08	1.77	1,000	831.00	744065101
	120	0.56	0.90	732-1069-1-ND	2.49	2.08	1.77	—	—	744065121
	150	0.68	0.85	732-1070-1-ND	2.49	2.08	1.77	1,000	831.00	744065151
XLH-Type										
9	1.5	0.0075	7.2	732-1071-1-ND	2.88	2.40	2.04	—	—	7440660015
	2.2	0.0105	6.7	732-1072-1-ND	2.88	2.40	2.04	—	—	7440660022
	3.5	0.015	5.8	732-1073-1-ND	2.88	2.40	2.04	—	—	7440660035
	5.0	0.022	4.9	732-1074-1-ND	2.88	2.40	2.04	800	920.00	744066005
	10	0.035	3.6	732-1076-1-ND	2.88	2.40	2.04	800	920.00	744066100
	15	0.05	3.2	732-1077-1-ND	2.88	2.40	2.04	800	920.00	744066150
	22	0.075	2.5	732-1078-1-ND	2.88	2.40	2.04	800	920.00	744066220
	33	0.112	2.1	732-1079-1-ND	2.88	2.40	2.04	800	920.00	744066330
	47	0.16	1.75	732-1080-1-ND	2.88	2.40	2.04	800	920.00	744066470
	68	0.216	1.5	732-1081-1-ND	2.88	2.40	2.04	800	920.00	744066680
	100	0.3	1.2	732-1082-1-ND	2.88	2.40	2.04	800	920.00	744066101
	150	0.47	1.0	732-1083-1-ND	2.88	2.40	2.04	800	920.00	744066151
	220	0.74	0.75	732-1084-1-ND	2.88	2.40	2.04	800	920.00	744066221
8x8x1.25-Type										
10	0.24	.019	4.1	732-1899-1-ND	3.30	2.75	2.34	550	756.25	74406800024
	0.56	.028	3.4	732-1900-1-ND	3.30	2.75	2.34	550	756.25	74406800056
	1.0	.038	2.8	732-1901-1-ND	3.30	2.75	2.34	550	756.25	7440680010
	1.7	.048	2.5	732-1902-1-ND	3.30	2.75	2.34	550	756.25	7440680017
	2.7	.062	2.2	732-1903-1-ND	3.30	2.75	2.34	550	756.25	7440680027
	3.3	.072	2.0	732-1904-1-ND	3.30	2.75	2.34	550	756.25	7440680033
	4.7	.085	1.85	732-1905-1-ND	3.30	2.75	2.34	550	756.25	7440680047
	5.6	.120	1.5	732-1906-1-ND	3.30	2.75	2.34	550	756.25	7440680056
	6.8	.135	1.4	732-1907-1-ND	3.30	2.75	2.34	550	756.25	7440680068
	8.2	.160	1.35	732-1908-1-ND	3.30	2.75	2.34	550	756.25	7440680082
	10	.200	1.2	732-1909-1-ND	3.30	2.75	2.34	550	756.25	7440680100
	15	.240	1.1	732-1910-1-ND	3.30	2.75	2.34	550	756.25	7440680150
	18	.325	0.90	732-1911-1-ND	3.30	2.75	2.34	550	756.25	7440680180
	22	.395	0.85	732-1912-1-ND	3.30	2.75	2.34	550	756.25	7440680220
8x8x1.5-Type										
10	0.22	.014	5.5	732-1885-1-ND	3.30	2.75	2.34	550	756.25	74406900022
	0.52	.020	4.3	732-1886-1-ND	3.30	2.75	2.34	550	756.25	74406900052
	1.0	.026	3.6	732-1887-1-ND	3.30	2.75	2.34	550	756.25	7440690010

✔ **NEW!** † For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WE-TPC Series — Shielded Low Profile Power Inductors *(Cont.)*

Dimensions in mm

Fig. 6

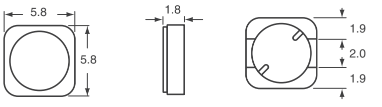

Fig. 7

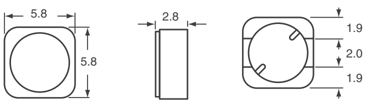

Fig. 8

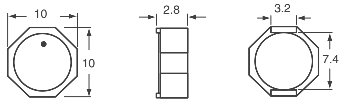

Fig. 9

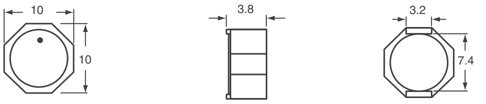

Fig. 10

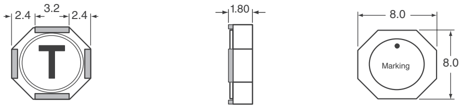

Fig.	Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
10	1.6	.035	3.1	732-1888-1-ND	3.30	2.75	2.34	550	756.25	7440690016
	2.2	.045	2.8	732-1889-1-ND	3.30	2.75	2.34	550	756.25	7440690022
	3.3	.052	2.55	732-1890-1-ND	3.30	2.75	2.34	550	756.25	7440690033
	4.7	.070	2.2	732-1891-1-ND	3.30	2.75	2.34	550	756.25	7440690047
	6.8	.110	1.75	732-1892-1-ND	3.30	2.75	2.34	550	756.25	7440690068
	8.2	.115	1.65	732-1893-1-ND	3.30	2.75	2.34	550	756.25	7440690082
	10	.135	1.55	732-1894-1-ND	3.30	2.75	2.34	550	756.25	7440690100
	12	.170	1.35	732-1895-1-ND	3.30	2.75	2.34	550	756.25	7440690120
	15	.200	1.25	732-1896-1-ND	3.30	2.75	2.34	550	756.25	7440690150
	18	.250	1.1	732-1897-1-ND	3.30	2.75	2.34	550	756.25	7440690180
	22	.310	1.0	732-1898-1-ND	3.30	2.75	2.34	550	756.25	7440690220
8x8x2-Type										
10	0.18	.0045	8.5	732-1871-1-ND	3.30	2.75	2.34	550	756.25	74407000018
	0.47	.0078	7.0	732-1872-1-ND	3.30	2.75	2.34	550	756.25	74407000047
	0.82	.011	6.0	732-1873-1-ND	3.30	2.75	2.34	550	756.25	74407000082
	1.2	.0165	4.6	732-1874-1-ND	3.30	2.75	2.34	550	756.25	7440700012

Fig.	Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
10	2.2	.021	4.4	732-1875-1-ND	3.30	2.75	2.34	550	756.25	7440700022
	3.3	.036	3.2	732-1876-1-ND	3.30	2.75	2.34	550	756.25	7440700033
	4.7	.045	3.0	732-1877-1-ND	3.30	2.75	2.34	550	756.25	7440700047
	5.6	.056	2.6	732-1878-1-ND	3.30	2.75	2.34	550	756.25	7440700056
	6.8	.068	2.4	732-1879-1-ND	3.30	2.75	2.34	550	756.25	7440700068
	8.2	.085	2.2	732-1880-1-ND	3.30	2.75	2.34	550	756.25	7440700082
	10	.094	2.0	732-1881-1-ND	3.30	2.75	2.34	550	756.25	7440700100
	15	.140	1.65	732-1882-1-ND	3.30	2.75	2.34	550	756.25	7440700150
	18	.162	1.5	732-1883-1-ND	3.30	2.75	2.34	550	756.25	7440700180
	22	.200	1.3	732-1884-1-ND	3.30	2.75	2.34	550	756.25	7440700220

† For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722)	WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit)	**$45.00**
732-1917-ND (744028)	WE-TPC Series Kit (See Digi-Key website for contents of kit)	**$105.00**
732-1918-ND (744043)	WE-TPC Series Kit (See Digi-Key website for contents of kit)	**$105.00**
732-1919-ND (744062)	WE-TPC Series Kit (See Digi-Key website for contents of kit)	**$105.00**

Power Transformers

Dimensions in mm

Fig. 1

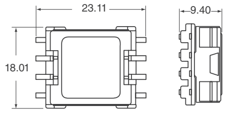

Fig. 2

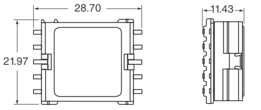

Fig. 3

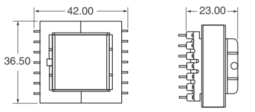

Fig. 4 ***NEW!***

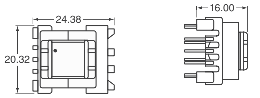

Fig.	Application	Inductance	DC Resistance (Ω) Primary	Secondary	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 125	Würth Part No.
1	Transformer for LT3750/3751	10µH	0.02	1.45	732-2128-1-ND	8.40	7.00	—	732-2128-2-ND	542.50	750032050
2	Transformer for LT3750/3751	10µH	0.015	0.7	732-2127-1-ND	8.40	7.00	—	732-2127-2-ND	542.50	750032051
	Transformer for LT3750	10µH	0.02	1.06	732-2129-1-ND	9.00	7.50	—	732-2129-2-ND	581.25	750032052
3	Transformer for LT3751	5.0µH	0.01	0.5	732-2130-ND†	6.30	5.25	4.65	—	—	750310349
	Transformer for LT3751	2.5µH	0.005	0.25	732-2131-ND†	6.30	5.25	4.65	—	—	750310355
4	Transformer for ICL8001G	6.3mH	5.05	0.079	732-2463-ND† ***NEW!***	10.50	8.75	7.75	—	—	750815141
	Transformer for ICL8001G	4.0mH	5.05	0.079	732-2464-ND† ***NEW!***	10.50	8.75	7.75	—	—	750813141

† Tray

NEW! Kits

732-2501-ND	**(750101)**	Power Transformers Design Kit 15-30W	**$135.00**
732-2502-ND	**(750102)**	Power Transformers Design Kit 5-15W	**$135.00**

NEW! Flyback Transformers

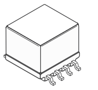

Application	Inductance	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Würth Part No.
Transformer for ADSL Danubius SMD	1.4mH	732-2458-1-ND	9.00	7.50	6.38	732-2458-2-ND	200	930.00	750052237
Transformer for LAN 10/100 SMD	350µH	732-2460-1-ND	6.00	5.00	4.25	732-2460-2-ND	750	1875.00	749010013
Transformer for LAN 10/100 SMD	350µH	732-2461-1-ND	12.48	10.40	8.84	732-2461-2-ND	2,000	4160.00/M	749010110
Transformer for LAN 10/100 PoE SMD	350µH	732-2459-1-ND	7.80	6.50	5.53	732-2459-2-ND	575	1868.75	749013011
Transformer for LAN 10/100/1000 SMD	350µH	732-2462-1-ND	9.60	8.00	6.80	732-2462-2-ND	375	1650.00	749020013
Transformer for LM5070/LM5071/LM5072 SMD	127µH	732-2265-1-ND	15.00	12.50	10.63	732-2265-2-ND	200	1550.00	750310007
Transformer for LT1725 SMD	20.4µH	732-2262-1-ND	15.00	12.50	10.63	732-2262-2-ND	200	1550.00	750311271
Transformer for LT3573 SMD	15µH	732-2227-1-ND	16.20	13.50	11.48	732-2227-2-ND	500	3375.00	750370042
Transformer for LT3573 SMD	24µH	732-2216-1-ND	15.00	12.50	10.63	732-2216-2-ND	250	1718.75	750310559
Transformer for LT3573 SMD	25µH	732-2217-1-ND	15.00	12.50	10.63	732-2217-2-ND	250	1718.75	750310471
Transformer for LT3573 SMD	25µH	732-2218-1-ND	15.00	12.50	10.63	732-2218-2-ND	250	1718.75	750310562
Transformer for LT3573 SMD	25µH	732-2219-1-ND	15.00	12.50	10.63	732-2219-2-ND	250	1718.75	750310563
Transformer for LT3573 SMD	25µH	732-2223-1-ND	14.40	12.00	10.20	732-2223-2-ND	300	1980.00	750310799
Transformer for LT3573 SMD	25µH	732-2225-1-ND	15.00	12.50	10.63	732-2225-2-ND	400	2750.00	750370058
Transformer for LT3573 SMD	30µH	732-2221-1-ND	14.40	12.00	10.20	732-2221-2-ND	300	1980.00	750370040
Transformer for LT3573 SMD	30µH	732-2224-1-ND	16.20	13.50	11.48	732-2224-2-ND	400	2970.00	750370047
Transformer for LT3573 SMD	50µH	732-2222-1-ND	14.40	12.00	10.20	732-2222-2-ND	300	1980.00	750370041
Transformer for LT3573 SMD	50µH	732-2226-1-ND	15.00	12.50	10.63	732-2226-2-ND	400	2750.00	750370059
Transformer for LT3573 SMD	63µH	732-2220-1-ND	15.00	12.50	10.63	732-2220-2-ND	250	1718.75	750310564
Transformer for LT3803 SMD	16.9µH	732-2263-1-ND	15.00	12.50	10.63	732-2263-2-ND	250	1718.75	750310854

† Tray

(Continued)

Midcom WÜRTH ELEKTRONIK

NEW! Flyback Transformers *(Cont.)*

Application	Inductance	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Würth Part No.
Transformer for LT3805 SMD	36.3µH	732-2264-1-ND	15.00	12.50	10.63	732-2264-2-ND	200	1550.00	750310435
Transformer for NXP SSL1750 Through-hole	550µH	732-2234-ND†	21.00	17.50	15.50	—	—	—	750340477
Transformer for NXP SSL2101/SSL2102 Through-hole	1.08mH	732-2231-ND†	14.70	12.25	10.85	—	—	—	750340505
Transformer for NXP SSL2101/SSL2102 Through-hole	1.48mH	732-2232-ND†	12.60	10.50	9.30	—	—	—	750311402
Transformer for NXP STARPLUG Through-hole	1.8mH	732-2238-ND†	12.60	10.50	9.30	—	—	—	750871013
Transformer for NXP STARPLUG Through-hole	2.0mH	732-2239-ND†	12.18	10.15	8.99	—	—	—	750871035
Transformer for NXP STARPLUG Through-hole	500µH	732-2237-ND†	13.44	11.20	9.92	—	—	—	750871630
Transformer for NXP STARPLUG Through-hole	900µH	732-2240-ND†	18.06	15.05	13.33	—	—	—	750871830
Transformer for NXP STARPLUG Through-hole	900µH	732-2241-ND†	14.70	12.25	10.85	—	—	—	750871831
Transformer for NXP TEA1733 Through-hole	2.2mH	732-2242-ND†	14.70	12.25	10.85	—	—	—	760871631
Transformer for NXP TEA1733 Through-hole	4.0mH	732-2243-ND†	14.70	12.25	10.85	—	—	—	760871632
Transformer for NXP UM10369 Through-hole	1.6mH	732-2236-ND†	13.44	11.20	9.92	—	—	—	750841630
Transformer for NXP UM10377 Through-hole	1.6mH	732-2235-ND†	12.60	10.50	9.30	—	—	—	750871530
Transformer for ON Semi NCP1014 Through-hole	1.8mH	732-2261-ND†	16.80	14.00	12.40	—	—	—	750811042
Transformer for ON Semi NCP1652 Through-hole	625µH	732-2260-ND†	16.80	14.00	12.40	—	—	—	750311267
Transformer for PI LNK362 Through-hole	2.64mH	732-2248-ND†	13.02	10.85	9.61	—	—	—	7508110100
Transformer for PI LNK564 Through-hole	2.70mH	732-2249-ND†	13.02	10.85	9.61	—	—	—	750811019
Transformer for PI LNK603 Through-hole	2.28mH	732-2245-ND†	12.60	10.50	9.30	—	—	—	750811023
Transformer for PI LNK605 Through-hole	1.55mH	732-2244-ND†	12.60	10.50	9.30	—	—	—	750871032
Transformer for PI LNK613 Through-hole	2.58mH	732-2246-ND†	13.02	10.85	9.61	—	—	—	7508110102
Transformer for PI LNK616 Through-hole	1.07mH	732-2247-ND†	13.02	10.85	9.61	—	—	—	7508110101
Transformer for PI TNY278 Through-hole	900µH	732-2250-ND†	14.70	12.25	10.85	—	—	—	750310849
Transformer for PI TOP258 Through-hole	1.04mH	732-2251-ND†	11.76	9.80	8.68	—	—	—	750811630
Transformer for PoE SMD	35µH	732-2436-1-ND	12.00	10.00	8.50	732-2436-2-ND	200	1240.00	7491199332
Transformer for PoE SMD	40µH	732-2437-1-ND	12.00	10.00	8.50	732-2437-2-ND	200	1240.00	7491199312
Transformer for PoE SMD	127µH	732-2430-1-ND	12.00	10.00	8.50	732-2430-2-ND	200	1240.00	749119933
Transformer for PoE SMD	127µH	732-2431-1-ND	12.00	10.00	8.50	732-2431-2-ND	200	1240.00	7491199331
Transformer for PoE SMD	127µH	732-2432-1-ND	12.00	10.00	8.50	732-2432-2-ND	200	1240.00	749119950
Transformer for PoE SMD	127µH	732-2433-1-ND	12.00	10.00	8.50	732-2433-2-ND	200	1240.00	7491199501
Transformer for PoE SMD	127µH	732-2434-1-ND	12.00	10.00	8.50	732-2434-2-ND	200	1240.00	7491199112
Transformer for PoE SMD	127µH	732-2435-1-ND	12.00	10.00	8.50	732-2435-2-ND	200	1240.00	7491199212
Transformer for PoE+ SMD	38µH	732-2438-1-ND	12.00	10.00	8.50	732-2438-2-ND	200	1240.00	750310742
Transformer for PoE+ SMD	38µH	732-2439-1-ND	12.00	10.00	8.50	732-2439-2-ND	200	1240.00	750310743
Transformer for PoE+ SMD	38µH	732-2440-1-ND	12.00	10.00	8.50	732-2440-2-ND	200	1240.00	750310744
Transformer for PoE+ SMD	42µH	732-2441-1-ND	13.20	11.00	—	732-2441-2-ND	125	852.50	749119433
Transformer for PoE+ SMD	42µH	732-2442-1-ND	13.20	11.00	—	732-2442-2-ND	125	852.50	7491194501
Transformer for PoE+ SMD	42µH	732-2443-1-ND	13.20	11.00	—	732-2443-2-ND	125	852.50	7491194912
Transformer for PoE+ SMD	65µH	732-2444-1-ND	13.20	11.00	—	732-2444-2-ND	125	852.50	749119450
Transformer for SI3210/SI3211 SMD	11.3µH	732-2465-1-ND	8.40	7.00	5.95	732-2465-2-ND	200	868.00	750031353
Transformer for ST VIPER15L Through-hole	3.90mH	732-2257-ND†	12.60	10.50	9.30	—	—	—	750370026
Transformer for ST VIPER15L Through-hole	4.00mH	732-2256-ND†	13.44	11.20	9.92	—	—	—	750871011
Transformer for ST VIPER17H Through-hole	1.20mH	732-2253-ND†	11.76	9.80	8.68	—	—	—	750310660
Transformer for ST VIPER17H Through-hole	1.60mH	732-2252-ND†	9.24	7.70	6.82	—	—	—	750370024
Transformer for ST VIPER17L Through-hole	2.38mH	732-2255-ND†	11.34	9.45	8.37	—	—	—	750871030
Transformer for ST VIPER17L Through-hole	3.30mH	732-2254-ND†	11.34	9.45	8.37	—	—	—	750871010
Transformer for ST VIPER27L Through-hole	1.7mH	732-2259-ND†	13.44	11.20	9.92	—	—	—	750871111
Transformer for ST VIPER28 Through-hole	1.6mH	732-2258-ND†	13.44	11.20	9.92	—	—	—	750871110
Transformer SMD	3.4µH	732-2450-1-ND	16.80	14.00	—	732-2450-2-ND	120	1041.60	749196540
Transformer SMD	4.3µH	732-2451-1-ND	16.80	14.00	—	732-2451-2-ND	120	1041.60	749196530
Transformer SMD	5.3µH	732-2452-1-ND	16.80	14.00	—	732-2452-2-ND	120	1041.60	749196520
Transformer SMD	7.6µH	732-2453-1-ND	16.80	14.00	—	732-2453-2-ND	120	1041.60	749196541
Transformer SMD	7.9µH	732-2454-1-ND	11.40	9.50	8.08	732-2454-2-ND	300	1567.50	749196341
Transformer SMD	9.3µH	732-2455-1-ND	11.40	9.50	8.08	732-2455-2-ND	300	1567.50	749196331
Transformer SMD	9.7µH	732-2456-1-ND	16.80	14.00	—	732-2456-2-ND	120	1041.60	749196531
Transformer SMD	9.9µH	732-2457-1-ND	16.80	14.00	—	732-2457-2-ND	120	1041.60	749196510
Transformer SMD	12µH	732-2445-1-ND	16.80	14.00	—	732-2445-2-ND	120	1041.60	749196521
Transformer SMD	14.2µH	732-2446-1-ND	11.40	9.50	8.08	732-2446-2-ND	300	1567.50	749196321
Transformer SMD	22.3µH	732-2448-1-ND	16.80	14.00	—	732-2448-2-ND	120	1041.60	749196511
Transformer SMD	23.3µH	732-2449-1-ND	11.40	9.50	8.08	732-2449-2-ND	300	1567.50	749196311
Transformer SMD	153.8µH	732-2447-1-ND	11.40	9.50	8.08	732-2447-2-ND	300	1567.50	749196301

† Tray

NEW! PFC Choke

Dimensions in mm

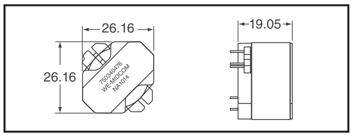

Application	Inductance (µH)	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
NXP SL1750	250	732-2233-ND	14.70	12.25	10.85	750340476

NEW! Analog Modem Transformers

Features:

- SMD and THT • Small size • Flat profile

Applications:

- Analog modems

Dimensions in mm

Fig. 1

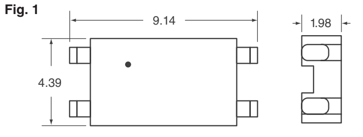

Fig. 2

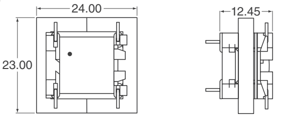

Fig.	Application	Inductance (µH)	Turn Ratio	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Würth Part No.
1	SmartDAA™ V.90	30	1.67:1	732-2228-1-ND	1.44	1.20	1.02	732-2228-2-ND	420.00/M	750082154
	SmartDAA SMD	30	1.67:1	732-2428-1-ND	2.40	2.00	1.70	732-2428-2-ND	700.00/M	750110007
2	PCB	—	1:1	732-2429-ND†	5.46	4.55	4.03	—	—	750082111

† Tray

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom WÜRTH ELEKTRONIK

WE-HCA Series — High Current Flat Wire SMD Inductors

Features: • Flat wire coil for low loss at high frequency • Low stray field • Extremely low profile design • Extremely low core loss allows design optimization for high ripple currents • Current capability up to 65A • Operating temperature: -40°C ~ 155°C • Recommended solder profile: Reflow • Inductance Tolerance: ±20% **Applications:** • Graphic cards • Laptops • Industrial computers • Motherboards • High current switching regulators • High temperature electronics • Polyphase switching regulators

Dimensions in mm

Fig. 1

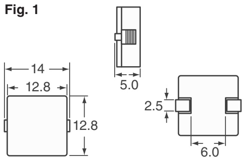

Fig. 2

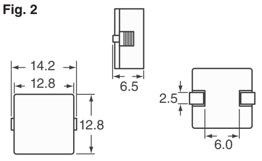

Fig. 3

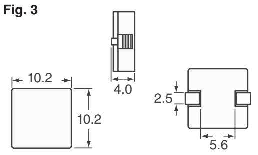

Fig. 4 ***NEW!***

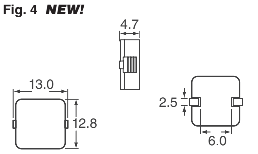

Fig. 5 ***NEW!***

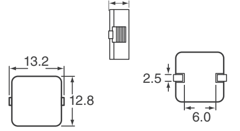

Fig.	Induc-tance (µH)	DCR Max.(mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
1	0.19	0.72	29	732-1112-1-ND	4.60	3.84	3.26	400	843.60	744355019
	0.47	1.30	26	732-1114-1-ND	4.60	3.84	3.26	—	—	744355047
	0.90	1.90	24	732-1115-1-ND	4.60	3.84	3.26	—	—	744355090
	1.40	2.80	22	732-1116-1-ND	4.60	3.84	3.26	—	—	7443550140
	2.30	4.50	17.5	732-1117-1-ND	4.60	3.84	3.26	—	—	7443550230
	4.80	12.00	11	732-1119-1-ND	4.60	3.84	3.26	400	843.60	7443550480
	6.00	15.00	9.5	732-1120-1-ND	4.60	3.84	3.26	—	—	7443550600
2	0.20	0.43	32	732-1121-1-ND	4.79	4.00	3.40	—	—	744355122
	0.47	0.80	30	732-1122-1-ND	4.79	4.00	3.40	400	878.80	744355147
	1.30	2.00	25	732-1124-1-ND	4.79	4.00	3.40	400	878.80	7443551130
	2.00	3.00	23	732-1125-1-ND	4.79	4.00	3.40	400	878.80	7443551200
	3.70	5.30	17	732-1127-1-ND	4.79	4.00	3.40	400	878.80	7443551370
	4.70	7.70	13	732-1128-1-ND	4.79	4.00	3.40	400	878.80	7443551470
	6.00	9.00	12	732-1129-1-ND	4.79	4.00	3.40	400	878.80	7443551600
2	7.30	6.40	13	732-1137-1-ND	4.79	4.00	3.40	400	878.80	7443551730
	9.20	8.40	12	732-1138-1-ND	4.79	4.00	3.40	400	878.80	7443551920
	11.30	10.00	11	732-1139-1-ND	4.79	4.00	3.40	400	878.80	7443551111
	13.00	12.50	10	732-1140-1-ND	4.79	4.00	3.40	400	878.80	7443551131
	15.40	16.00	9	732-1141-1-ND	4.79	4.00	3.40	400	878.80	7443551151
3	0.15	0.72	25	732-1142-1-ND‡	4.15	3.47	2.95	—	—	744355215
	0.30	1.30	22	732-1130-1-ND	4.15	3.47	2.95	—	—	744355230
	0.56	1.80	20	732-1131-1-ND	4.15	3.47	2.95	800	1329.60	744355256
	1.00	3.80	16	732-1132-1-ND	4.15	3.47	2.95	800	1329.60	7443552100
	1.50	5.70	14	732-1133-1-ND	4.15	3.47	2.95	800	1329.60	7443552150
	4.30	17.00	8	732-1136-1-ND	4.15	3.47	2.95	800	1329.60	7443552430
4	8.20	11.60	10	732-2184-1-ND✔	4.60	3.84	3.26	400	843.60	7443550820
5	22.00	24.70	6	732-2183-1-ND✔	4.80	4.00	3.40	400	880.00	7443551221

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ ±30% Tolerance

732-1921-ND (744355) WE-HC/HCA Series Kit (See Digi-Key website for contents of kit) **$135.00**
732-1922-ND (744356) WE-HC/HCA Series Kit (See Digi-Key website for contents of kit) **$157.50**

WE-HC Series — High Current Flat Wire SMD Inductors

Features: • Flat wire coil for low loss at high frequency • Low stray field • Extremely low profile design • Extremely low core loss allows design optimization for high ripple currents • Current capability up to 40A • Operating temperature: -40°C ~ 155°C • Recommended solder profile: Reflow • Inductance Tolerance: ±20% **Applications:** • Graphic cards • Laptops • Industrial computers • Motherboards • High current switching regulators • High temperature electronics • Polyphase - switching regulators

Dimensions in mm

Fig. 1

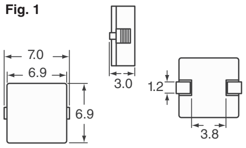

Fig. 2

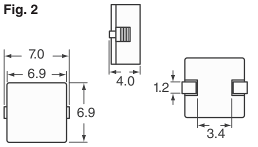

Fig. 3

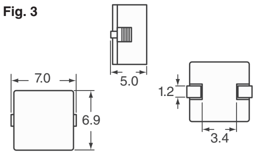

Fig. 4

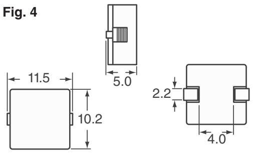

Fig. 5 ***NEW!***

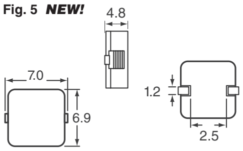

Fig.	Induc-tance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
1	0.13	.91	22	732-1143-1-ND	3.26	2.72	2.31	—	—	744310013
	0.24	1.6	18	732-1144-1-ND	3.26	2.72	2.31	1,500	1086.00/M	744310024
	0.52	3.7	14	732-1145-1-ND	3.26	2.72	2.31	1,500	1086.00/M	744310055
	0.95	6.2	11	732-1146-1-ND	3.26	2.72	2.31	1,500	1086.00/M	744310095
	1.15	8.6	8.5	732-1147-1-ND	3.26	2.72	2.31	1,500	1086.00/M	744310115
	2	14.2	6.5	732-1148-1-ND	3.26	2.72	2.31	—	—	744310200
2	0.68	3.1	17	732-1149-1-ND	3.32	2.77	2.36	1,000	1108.00	744311068
	1.5	7.8	11	732-1150-1-ND	3.32	2.77	2.36	1,000	1108.00	744311150
	2.2	11.4	9	732-1151-1-ND	3.32	2.77	2.36	1,000	1108.00	744311220
	3.3	17.2	6.5	732-1152-1-ND	3.32	2.77	2.36	1,000	1108.00	744311330
	4.7	19.5	6	732-1153-1-ND	3.32	2.77	2.36	1,000	1108.00	744311470
3	0.24	1.15	20	732-1154-1-ND	3.51	2.93	2.49	—	—	744314024
	0.47	2.00	18	732-1155-1-ND	3.51	2.93	2.49	1,000	1172.00	744314047
	0.76	2.90	15.5	732-1156-1-ND	3.51	2.93	2.49	—	—	744314076
	1.10	3.80	15	732-1157-1-ND	3.51	2.93	2.49	1,000	1172.00	744314110
	1.50	5.20	13	732-1158-1-ND	3.51	2.93	2.49	1,000	1172.00	744314150
3	2.00	7.00	11.5	732-1159-1-ND	3.51	2.93	2.49	1,000	1172.00	744314200
	3.30	11.6	9	732-1160-1-ND	3.51	2.93	2.49	1,000	1172.00	744314330
	4.90	17.00	6.5	732-1161-1-ND	3.51	2.93	2.49	1,000	1172.00	744314490
	6.5	25.00	6	732-1162-1-ND	3.51	2.93	2.49	1,000	1172.00	744314650
4	0.40	0.77	24	732-1164-1-ND	4.41	3.68	3.13	700	1285.90	744325040
	0.72	1.65	22	732-1165-1-ND	4.41	3.68	3.13	700	1285.90	744325072
	1.20	2.00	20	732-1166-1-ND	4.41	3.68	3.13	700	1285.90	744325120
	1.80	4.00	16	732-1167-1-ND	4.41	3.68	3.13	—	—	744325180
	2.40	5.00	14	732-1168-1-ND	4.41	3.68	3.13	700	1285.90	744325240
	3.30	6.60	12	732-1169-1-ND	4.41	3.68	3.13	—	—	744325330
	4.20	8.00	11	732-1170-1-ND	4.41	3.68	3.13	700	1285.90	744325420
	5.50	14.00	10	732-1171-1-ND	4.41	3.68	3.13	700	1285.90	744325550
5	7.60	30.20	4.2	732-2181-1-ND✔	3.90	3.25	2.77	1,000	1300.00	744314760
	8.50	32.50	4.0	732-2182-1-ND✔	3.90	3.25	2.77	1,000	1300.00	744314850
	10.00	33.00	3.5	732-2180-1-ND✔	3.60	3.00	2.55	1,000	1200.00	744314101

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND.

Kit

732-1923-ND (744721) Kit Chokes for EXAR (See Digi-Key website for contents of kit) - ***RoHS Compliant*** **$127.50**

NEW! Trilogy of Magnetics — 4th Edition The Design Guide

The design guide for EMI Filter Design and SMPS and RF Design Circuit is completely revised, newly structured, and covers a multitude of new components and applications. The design guide is divided into the following chapters: Basic Principles, Components, and Applications. A keyword index, as well as a formulary, complete the book. The objective of the design guide, "Trilogy of Magnetics", is to practically familiarize customers and users with the characteristics and applications of inductive components. The design guide was published 8 years ago for the first time and is now a standard work for lots of development departments and universities. In the 4th edition, the explanation of old techniques and components has been set aside to have more room for new components and applications. Notably, a multitude of external authors from our customer base and our well known manufactures passed on their experiences and solutions in the Basic Principles and Applications section.

732-2511-ND (744006) **$72.00**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom WÜRTH ELEKTRONIK

NEW! WE-PDF Series — Shielded Power Inductors

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

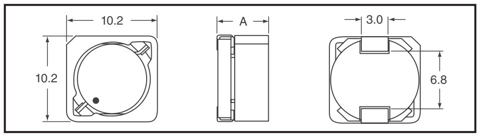

Features:

• Flat power inductor • High storage capability • Magnetically shielded which results in a low leakage field • Low self-losses • High saturation current • Flat wire coil for lower losses at high frequency ranges • High self resonance frequency • Operating temperature: -40°C ~ 150°C • Recommended solder profile: Reflow

Applications:

• Switching regulators with high switching frequencies • Optimized design with lower copper losses

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel Pricing† 500	Würth Part No.
0.22	7.00	10.3	6.4	732-2410-1-ND	4.32	3.60	3.06	900.00	7447798022
0.22	10.0	8.80	4.5	732-2205-1-ND	3.30	2.75	2.34	687.50	7447797022
0.50	7.50	9.50	6.4	732-2411-1-ND	4.32	3.60	3.06	900.00	7447798050
0.50	12.5	8.50	4.5	732-2206-1-ND	3.30	2.75	2.34	687.50	7447797050
1.10	14.0	7.60	4.5	732-2207-1-ND	3.30	2.75	2.34	687.50	7447797110
1.10	8.60	9.25	6.4	732-2412-1-ND	4.32	3.60	3.06	900.00	7447798110
1.80	9.60	9.00	6.4	732-2413-1-ND	4.32	3.60	3.06	900.00	7447798180
1.80	16.0	7.30	4.5	732-2208-1-ND	3.30	2.75	2.34	687.50	7447797180
2.50	10.3	8.60	6.4	732-2418-1-ND	4.32	3.60	3.06	900.00	7447798250
3.00	18.0	7.00	4.5	732-2209-1-ND	3.30	2.75	2.34	687.50	7447797300
3.60	11.1	7.90	6.4	732-2422-1-ND	4.32	3.60	3.06	900.00	7447798360
3.60	20.0	6.80	4.5	732-2210-1-ND	3.30	2.75	2.34	687.50	7447797360
4.70	13.2	7.50	6.4	732-2424-1-ND	4.32	3.60	3.06	900.00	7447798470
4.70	27.0	5.80	4.5	732-2211-1-ND	3.30	2.75	2.34	687.50	7447797470

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel Pricing† 500	Würth Part No.
6.20	14.7	7.00	6.4	732-2425-1-ND	4.32	3.60	3.06	900.00	7447798620
6.20	30.0	5.50	4.5	732-2212-1-ND	3.30	2.75	2.34	687.50	7447797620
7.20	18.0	6.50	6.4	732-2426-1-ND	4.32	3.60	3.06	900.00	7447798720
8.20	35.0	4.80	4.5	732-2213-1-ND	3.30	2.75	2.34	687.50	7447797820
9.10	19.4	6.20	6.4	732-2427-1-ND	4.32	3.60	3.06	900.00	7447798910
11.0	21.4	5.80	6.4	732-2414-1-ND	4.32	3.60	3.06	900.00	7447798111
13.0	27.1	5.20	6.4	732-2415-1-ND	4.32	3.60	3.06	900.00	7447798131
15.0	28.9	4.90	6.4	732-2416-1-ND	4.32	3.60	3.06	900.00	7447798151
18.0	31.1	4.70	6.4	732-2417-1-ND	4.32	3.60	3.06	900.00	7447798181
22.0	40.2	4.10	6.4	732-2419-1-ND	4.32	3.60	3.06	900.00	7447798221
24.0	42.9	4.00	6.4	732-2420-1-ND	4.32	3.60	3.06	900.00	7447798241
27.0	45.8	3.90	6.4	732-2421-1-ND	4.32	3.60	3.06	900.00	7447798271
30.0	49.2	3.70	6.4	732-2423-1-ND	4.32	3.60	3.06	900.00	7447798301

† For Tape and Reel part number, change 1-ND to 2-ND.

WE-HCC Series — High Current SMD Inductors

Digi-Reel® RoHS COMPLIANT

Features: • Magnetically shielded version • Excellent saturation characteristics • Operating temperature: -40°C ~ 125°C

Applications: • Input filter for switching regulators and motor electronics • Single/Mulitphase switching regulators for currents

Dimensions in mm

Fig. 1

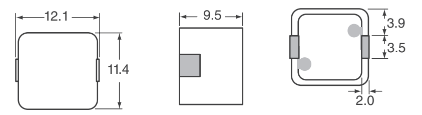

Fig. 2 ***NEW!***

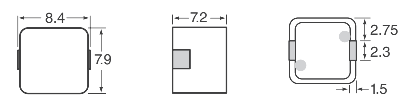

Fig. 3 ***NEW!***

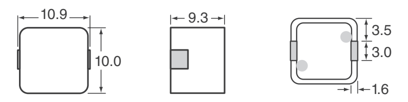

Fig.	Inductance (µH)	DCR Max. (mΩ)	IRMS (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
1	0.22	0.51	27.0	732-2116-1-ND	3.18	2.65	2.26	300	437.40	7443310022
	0.22	0.53	27.0	732-2133-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320022
	0.33	0.51	27.0	732-2117-1-ND	3.18	2.65	2.26	300	437.40	7443310033
	0.33	0.53	27.0	732-2134-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320033
	0.47	0.72	23.0	732-2118-1-ND	3.18	2.65	2.26	300	437.40	7443310047
	0.47	0.72	26.0	732-2135-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320047
	0.68	0.72	23.0	732-2119-1-ND	3.18	2.65	2.26	300	437.40	7443310068
	0.68	0.72	26.0	732-2136-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320068
	0.82	1.15	21.0	732-2120-1-ND	3.18	2.65	2.26	300	437.40	7443310082
	0.82	1.17	24.0	732-2137-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320082
	1.00	1.15	21.0	732-2121-1-ND	3.18	2.65	2.26	300	437.40	7443310100
	1.00	1.17	24.0	732-2138-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320100
	1.50	2.00	18.5	732-2122-1-ND	3.18	2.65	2.26	300	437.40	7443310150
	1.50	2.10	19.5	732-2139-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320150
	2.20	3.00	16.0	732-2123-1-ND	3.18	2.65	2.26	300	437.40	7443310220
	2.20	3.05	18.0	732-2140-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320220
	3.30	4.40	17.0	732-2141-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320330
	3.30	6.00	13.0	732-2124-1-ND	3.18	2.65	2.26	300	437.40	7443310330
	3.90	8.90	11.5	732-2125-1-ND	3.18	2.65	2.26	300	437.40	7443310390
	4.70	6.35	15.5	732-2142-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320470
	4.70	8.90	11.5	732-2126-1-ND	3.18	2.65	2.26	300	437.40	7443310470
	6.80	8.98	13.0	732-2143-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320680
	8.20	9.90	13.0	732-2144-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443320820
	10.00	14.4	9.0	732-2145-1-ND **NEW!**	3.18	2.65	2.26	300	437.40	7443321000

Fig.	Inductance (µH)	DCR Max. (mΩ)	IRMS (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
2	0.30	1.40	20.5	732-2159-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340030
	0.47	1.72	19.0	732-2160-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340047
	0.68	1.72	19.0	732-2161-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340068
	1.00	2.95	17.0	732-2162-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340100
	1.50	4.40	16.5	732-2163-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340150
	2.20	4.40	16.5	732-2164-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340220
	3.30	6.50	14.0	732-2165-1-ND **NEW!**	2.16	1.80	1.53	500	450.00	7443340330
3	0.22	0.60	21.5	732-2146-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330022
	0.33	0.60	21.5	732-2147-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330033
	0.47	0.80	20.5	732-2148-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330047
	0.68	1.35	20.0	732-2149-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330068
	0.82	1.35	20.0	732-2150-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330082
	1.00	1.35	20.0	732-2151-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330100
	1.50	2.50	18.0	732-2152-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330150
	2.20	3.70	16.5	732-2153-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330220
	3.30	5.40	14.0	732-2154-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330330
	4.70	8.20	13.0	732-2155-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330470
	6.80	13.2	11.5	732-2156-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330680
	8.20	13.2	11.5	732-2157-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443330820
	10.00	20.7	9.0	732-2158-1-ND **NEW!**	2.64	2.20	1.87	400	484.00	7443331000

† For Tape and Reel part number, change 1-ND to 2-ND.

732-2229-ND (744332) ***NEW!*** WE-HCC Series Kit (See Digi-Key website for contents of kit) **$135.00**

NEW! WE-HCB Series — High Current Power Inductors

Digi-Reel® RoHS COMPLIANT

Features: • Flat wire inductor • Very low DCR tolerance of ±8% • Magnetically shielded version • Operating temperature: -40°C ~ 125°C

Applications: • DC/DC converter • Filter

Dimensions in mm

Fig. 1

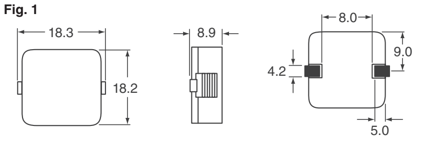

Fig. 2

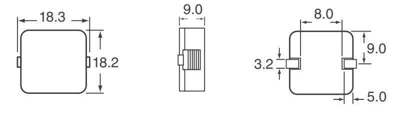

Fig. 3

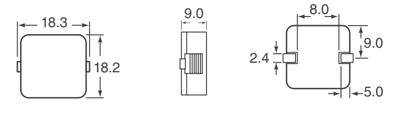

Fig.	Inductance (µH)	DCR Max.(mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	Tape and Reel Pricing† 150	Würth Part No.
1	0.82	0.54	41.5	732-2166-1-ND	9.30	7.75	720.75	7443556082
	1.30	0.94	34.5	732-2168-1-ND	9.30	7.75	720.75	7443556130
	1.90	1.20	32.5	732-2169-1-ND	9.30	7.75	720.75	7443556190
	2.60	1.58	31.5	732-2170-1-ND	9.30	7.75	720.75	7443556260
	3.50	3.10	22.5	732-2171-1-ND	9.30	7.75	720.75	7443556350
	4.50	3.40	20.5	732-2172-1-ND	9.30	7.75	720.75	7443556450
	5.60	3.70	19.0	732-2173-1-ND	9.30	7.75	720.75	7443556560

Fig.	Inductance (µH)	DCR Max.(mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	Tape and Reel Pricing† 150	Würth Part No.
1	6.80	4.10	18.5	732-2174-1-ND	9.30	7.75	720.75	7443556680
	10.00	6.90	15.0	732-2167-1-ND	9.30	7.75	720.75	74435561100
2	10.00	7.10	16.5	732-2175-1-ND	9.30	7.75	720.75	74435571100
	15.00	9.3	14.0	732-2176-1-ND	9.30	7.75	720.75	74435571500
	22.00	14.6	11.0	732-2177-1-ND	9.30	7.75	720.75	74435572200
	33.00	22.6	8.5	732-2178-1-ND	9.30	7.75	720.75	74435573300
3	47.00	34.0	6.8	732-2179-1-ND	9.30	7.75	720.75	74435574700

† For Tape and Reel part number, change 1-ND to 2-ND.

Midcom WÜRTH ELEKTRONIK

WE-PD Series — Shielded Power SMD Inductors

Features: • Magnetically shielded version which results in a low leakage field • High storage capacity • Low self-losses • Highest possible current loading for SMD inductors • Operating temperature: -40°C ~ 125°C • Recommended solder profile: Reflow

Applications:
• Switching regulators with low operating voltages (computer, laptop, mobile phones, pagers) • Integrated DC/DC converter • Perfectly suitable for switching regulators with extremely high efficiency (>86%) • Graphics cards

Dimensions in mm

Fig. 1

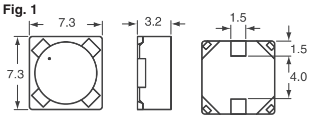

Fig. 2

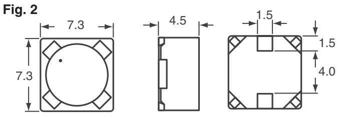

Fig. 3

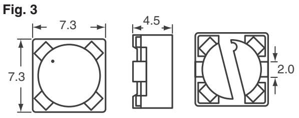

Fig. 4

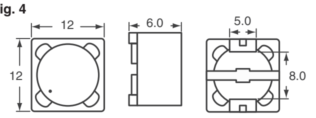

Fig. 5 ***NEW!***

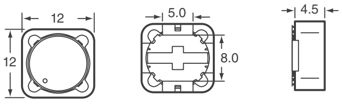

Fig. 6

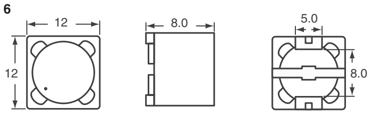

Fig. 7

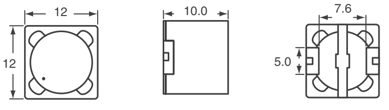

Fig.	Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
S-Type										
1	1.0	12	5.37	732-1172-1-ND	2.70	2.25	1.92	1,000	900.00	7447789001
	2.2	20	4.02	732-1173-1-ND	2.70	2.25	1.92	1,000	900.00	7447789002
	3.3	30	3.42	732-1174-1-ND	2.70	2.25	1.92	1,000	900.00	7447789003
	4.7	35	2.90	732-1175-1-ND	2.70	2.25	1.92	1,000	900.00	7447789004
	6.8	44	2.50	732-1176-1-ND	2.70	2.25	1.92	1,000	900.00	7447789006
	10.0	72	1.83	732-1177-1-ND	2.70	2.25	1.92	1,000	900.00	744778910
	12.0	98	1.73	732-1178-1-ND	2.56	2.13	1.82	—	—	7447789112
	18.0	140	1.41	732-1179-1-ND	2.70	2.25	1.92	1,000	900.00	7447789118
	22.0	190	1.38	732-1180-1-ND	2.70	2.25	1.92	1,000	900.00	7447789122
	33.0	240	1.22	732-1181-1-ND	2.70	2.25	1.92	1,000	900.00	7447789133
	39.0	320	1.03	732-1182-1-ND	2.56	2.13	1.82	—	—	7447789139
	47.0	360	0.85	732-1183-1-ND	2.70	2.25	1.92	1,000	900.00	7447789147
	56.0	470	0.84	732-1388-1-ND	2.70	2.25	1.92	1,000	900.00	7447789156
	68.0	520	0.74	732-1184-1-ND	2.70	2.25	1.92	1,000	900.00	7447789168
	82.0	690	0.69	732-1389-1-ND	2.56	2.13	1.82	—	—	7447789182
	100.0	790	0.62	732-1185-1-ND	2.70	2.25	1.92	1,000	900.00	744778920
M-Type										
2	1.0	11	5.30	732-1186-1-ND	2.82	2.35	2.00	1,000	940.00	7447779001
	2.2	20	4.20	732-1187-1-ND	2.82	2.35	2.00	1,000	940.00	7447779002
	3.3	30	3.30	732-1188-1-ND	2.82	2.35	2.00	1,000	940.00	7447779003
	4.7	32	3.16	732-1189-1-ND	2.82	2.35	2.00	1,000	940.00	7447779004
	6.8	35	2.91	732-1190-1-ND	2.82	2.35	2.00	1,000	940.00	7447779006
	10.0	49	2.00	732-1191-1-ND	2.82	2.35	2.00	1,000	940.00	744777910
	12.0	58	1.82	732-1192-1-ND	2.82	2.35	2.00	1,000	940.00	7447779112
	18.0	91	1.50	732-1193-1-ND	2.68	2.24	1.91	—	—	7447779118
	22.0	110	1.41	732-1194-1-ND	2.82	2.35	2.00	1,000	940.00	7447779122
	33.0	170	1.13	732-1195-1-ND	2.82	2.35	2.00	1,000	940.00	7447779133
	39.0	230	1.11	732-1196-1-ND	2.68	2.24	1.91	—	—	7447779139
	47.0	260	1.03	732-1197-1-ND	2.82	2.35	2.00	1,000	940.00	7447779147
	56.0	350	0.93	732-1390-1-ND	2.68	2.24	1.91	—	—	7447779156
	68.0	380	0.87	732-1198-1-ND	2.82	2.35	2.00	1,000	940.00	7447779168
	82.0	430	0.84	732-1202-1-ND	2.82	2.35	2.00	1,000	940.00	7447779182
	100.0	610	0.79	732-1199-1-ND	2.82	2.35	2.00	1,000	940.00	744777920
M-Type										
3	10.0	49	2.00	732-1200-1-ND	2.82	2.35	2.00	1,000	940.00	74477710
	22.0	110	1.41	732-1201-1-ND	2.52	2.10	1.79	1,000	840.00	744777122
L-Type										
4	1.50	6	10.50	732-1203-1-ND	3.26	2.72	2.31	—	—	744771001
	2.20	8	10.00	732-1204-1-ND	3.42	2.85	2.43	500	712.50	744771002
	4.70	11	8.25	732-1206-1-ND	3.42	2.85	2.43	500	712.50	744771004
	8.20	20	6.25	732-1207-1-ND	3.42	2.85	2.43	500	712.50	744771008
	10.0	25	5.00	732-1208-1-ND	3.42	2.85	2.43	500	712.50	74477110
	12.0	27	3.91	732-1209-1-ND	3.42	2.85	2.43	500	712.50	744771112
	18.0	34	3.48	732-1210-1-ND	3.42	2.85	2.43	500	712.50	744771118
	22.0	36	3.37	732-1211-1-ND	3.42	2.85	2.43	500	712.50	744771122
	33.0	57	2.68	732-1212-1-ND	3.42	2.85	2.43	500	712.50	744771133
	39.0	68	2.49	732-1213-1-ND	3.42	2.85	2.43	500	712.50	744771139
	47.0	75	2.21	732-1214-1-ND	3.42	2.85	2.43	500	712.50	744771147
	56.0	110	2.01	732-1391-1-ND	3.42	2.85	2.43	500	712.50	744771156
	68.0	120	1.91	732-1215-1-ND	3.42	2.85	2.43	500	712.50	744771168
	82.0	140	1.65	732-1392-1-ND	3.42	2.85	2.43	500	712.50	744771182
	100.0	160	1.53	732-1216-1-ND	3.42	2.85	2.43	500	712.50	74477120
NEW! LS-Type NEW!										
5	1.00	7.0	8.50	732-2198-1-ND	3.00	2.50	2.13	500	625.00	7447715910
	1.80	9.5	7.60	732-2185-1-ND	3.00	2.50	2.13	500	625.00	7447715001
	2.50	11.0	6.80	732-2186-1-ND	3.00	2.50	2.13	500	625.00	7447715002
	3.30	13.0	5.90	732-2187-1-ND	3.00	2.50	2.13	500	625.00	7447715003
	4.70	16.0	5.20	732-2188-1-ND	3.00	2.50	2.13	500	625.00	7447715004
	6.80	25.0	4.30	732-2189-1-ND	3.00	2.50	2.13	500	625.00	7447715006
	10.00	30.0	3.80	732-2190-1-ND	3.00	2.50	2.13	500	625.00	7447715100
5	12.00	38.0	3.50	732-2192-1-ND	3.00	2.50	2.13	500	625.00	7447715120
	18.00	43.0	3.20	732-2193-1-ND	3.00	2.50	2.13	500	625.00	7447715180
	22.00	54.0	2.90	732-2194-1-ND	3.00	2.50	2.13	500	625.00	7447715220
	33.00	85.0	2.30	732-2196-1-ND	3.00	2.50	2.13	500	625.00	7447715330
	47.00	125.0	1.95	732-2197-1-ND	3.00	2.50	2.13	500	625.00	7447715470
	100.00	270.0	1.30	732-2191-1-ND	3.00	2.50	2.13	500	625.00	7447715101
	220.00	480.0	0.95	732-2195-1-ND	3.00	2.50	2.13	500	625.00	7447715221
XL-Type										
6	2.4	12	10.10	732-1219-1-ND	3.48	2.90	2.47	500	725.00	74477002
	3.5	14	8.90	732-1220-1-ND	3.32	2.77	2.36	—	—	74477003
	4.7	16	8.50	732-1221-1-ND	3.48	2.90	2.47	500	725.00	74477004
	6.1	18	7.60	732-1222-1-ND	3.48	2.90	2.47	500	725.00	74477006
	10.0	22	6.20	732-1223-1-ND	3.48	2.90	2.47	500	725.00	74477010
	12.0	24	5.90	732-1224-1-ND	3.48	2.90	2.47	500	725.00	744770112
	15.0	27	5.00	732-1225-1-ND	3.48	2.90	2.47	500	725.00	744770115
	18.0	39	4.20	732-1226-1-ND	3.32	2.77	2.36	—	—	744770118
	22.0	43	4.10	732-1227-1-ND	3.48	2.90	2.47	500	725.00	744770122
	27.0	46	3.70	732-1228-1-ND	3.48	2.90	2.47	500	725.00	744770127
	33.0	64	3.20	732-1229-1-ND	3.48	2.90	2.47	500	725.00	744770133
	47.0	100	2.70	732-1231-1-ND	3.48	2.90	2.47	500	725.00	744770147
	56.0	110	2.40	732-1232-1-ND	3.32	2.77	2.36	—	—	744770156
	68.0	140	2.30	732-1233-1-ND	3.48	2.90	2.47	500	725.00	744770168
	100.0	220	2.20	732-1235-1-ND	3.48	2.90	2.47	500	725.00	74477020
	180.0	350	1.40	732-1687-1-ND	3.48	2.90	2.47	500	725.00	744770218
	220.0	390	1.30	732-1688-1-ND	3.48	2.90	2.47	500	725.00	744770222
	330.0	640	1.10	732-1689-1-ND	3.48	2.90	2.47	500	725.00	744770233
	470.0	980	0.90	732-1690-1-ND	3.48	2.90	2.47	500	725.00	744770247
	560.0	1,070	0.80	732-1691-1-ND	3.48	2.90	2.47	500	725.00	744770256
	680.0	1,460	0.70	732-1692-1-ND	3.48	2.90	2.47	500	725.00	744770268
	820.0	1,640	0.60	732-1693-1-ND	3.48	2.90	2.47	500	725.00	744770282
	1,000.0	1,820	0.60	732-1694-1-ND	3.48	2.90	2.47	500	725.00	74477030
XXL-Type										
7	2.2	6	11.50	732-1237-1-ND	4.03	3.36	2.86	—	—	7447709002
	3.5	8.5	11.00	732-1238-1-ND	4.03	3.36	2.86	—	—	7447709003
	6.8	14	8.40	732-1240-1-ND	4.20	3.50	2.98	250	481.25	7447709006
	10.0	21	7.10	732-1241-1-ND	4.20	3.50	2.98	250	481.25	7447709100
	15.0	26	6.50	732-1242-1-ND	4.20	3.50	2.98	250	481.25	7447709150
	22.0	28	5.30	732-1243-1-ND	4.20	3.50	2.98	250	481.25	7447709220
	33.0	45	4.20	732-1244-1-ND	4.20	3.50	2.98	250	481.25	7447709330
	39.0	56	4.10	732-1245-1-ND	4.20	3.50	2.98	250	481.25	7447709390
	47.0	60	3.80	732-1246-1-ND	4.20	3.50	2.98	250	481.25	7447709470
	68.0	88.5	3.20	732-1247-1-ND	4.20	3.50	2.98	250	481.25	7447709680
	100.0	110	2.50	732-1248-1-ND	4.20	3.50	2.98	250	481.25	7447709101
	150.0	200	2.10	732-1695-1-ND	4.20	3.50	2.98	250	481.25	7447709151
	220.0	300	1.80	732-1696-1-ND	4.20	3.50	2.98	250	481.25	7447709221
	270.0	330	1.60	732-1697-1-ND	4.20	3.50	2.98	250	481.25	7447709271
	330.0	430	1.50	732-1698-1-ND	4.20	3.50	2.98	250	481.25	7447709331
	470.0	560	1.40	732-1699-1-ND	4.20	3.50	2.98	250	481.25	7447709471
	680.0	825	1.10	732-1700-1-ND	4.20	3.50	2.98	250	481.25	7447709681
	820.0	1,000	0.95	732-1701-1-ND	4.20	3.50	2.98	250	481.25	7447709821
	1,000.0	1,200	0.90	732-1702-1-ND	4.20	3.50	2.98	250	481.25	7447709102

† For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722) WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit).................... **$45.00**
732-1645-ND (744720) WE-PD/PD2/PD3/PD4 Series Kit (See Digi-Key website for contents of kit).............. **$120.00**
732-1924-ND (744777) WE-PD Series Kit (See Digi-Key website for contents of kit)............................ **$97.50**
732-1925-ND (744778) WE-PD Series Kit (See Digi-Key website for contents of kit)............................ **$135.00**
732-1926-ND (744770) WE-PD Series Kit (See Digi-Key website for contents of kit)............................ **$97.50**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WE-PD2 Series — SMD Power Inductors

Feature: • Industry standard sizes • Operating temperature: -40°C ~ 125°C • Recommended solder profile: Reflow • Current capability up to 14A **Applications:** • Switching regulators with low operating voltage (computer, laptop, mobile phones and pagers) • Integrated DC/DC converter • Perfectly suitable for switching regulators with extremely high efficiency (>86%)

Dimensions in mm

Fig. 1

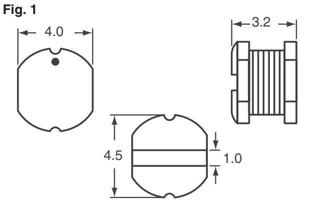

Fig. 2

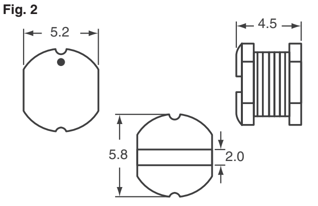

Fig. 3

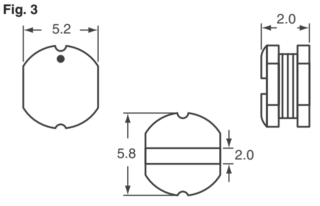

Fig. 4

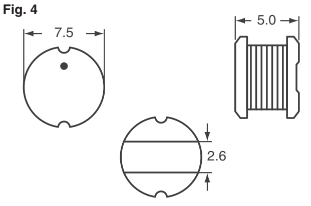

Fig. 5

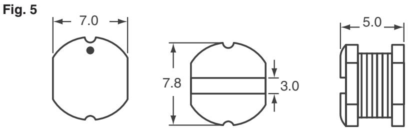

Fig. 6

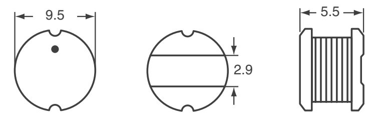

Fig. 7

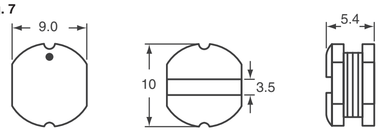

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
S-Type — Fig. 1									
1.0	49.00	4.00	732-1249-1-ND	1.73	1.44	1.23	1,500	575.00/M	7447730
1.8	64.00	2.70	732-1394-1-ND	1.73	1.44	1.23	—	—	744773018
2.2	71.00	2.50	732-1250-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773022
3.3	86.00	2.00	732-1251-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773033
4.7	110.00	1.82	732-1252-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773047
5.6	126.00	1.58	732-1395-1-ND	1.73	1.44	1.23	—	—	744773056
6.8	131.00	1.54	732-1253-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773068
8.2	146.00	1.50	732-1254-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773082
10.0	182.00	1.45	732-1255-1-ND	1.73	1.44	1.23	1,500	575.00/M	74477310
12.0	210.00	1.28	732-1256-1-ND	1.73	1.44	1.23	—	—	744773112
18.0	338.00	1.10	732-1257-1-ND	1.73	1.44	1.23	—	—	744773118
22.0	370.00	1.00	732-1258-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773122
33.0	540.00	0.86	732-1259-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773133
47.0	844.00	0.68	732-1261-1-ND	1.73	1.44	1.23	1,500	575.00/M	744773147
56.0	937.00	0.64	732-1262-1-ND	1.73	1.44	1.23	—	—	744773156
68.0	1117.00	0.56	732-1263-1-ND	1.73	1.44	1.23	—	—	744773168
M-Type — Fig. 2									
2.2	41.00	4.60	732-1267-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774022
2.7	45.00	4.00	732-1396-1-ND	1.60	1.34	1.14	—	—	744774027
3.3	60.00	4.00	732-1265-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774033
4.7	71.00	3.00	732-1266-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774047
6.8	82.00	2.40	732-1268-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774068
10.0	100.00	2.20	732-1269-1-ND	1.60	1.34	1.14	1,500	533.00/M	74477410
12.0	110.00	2.00	732-1270-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774112
18.0	150.00	1.45	732-1271-1-ND	1.60	1.34	1.14	—	—	744774118
22.0	180.00	1.28	732-1272-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774122
27.0	200.00	1.19	732-1273-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774127
33.0	230.00	1.09	732-1274-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774133
39.0	320.00	0.94	732-1275-1-ND	1.60	1.34	1.14	—	—	744774139
47.0	370.00	0.86	732-1276-1-ND	1.60	1.34	1.14	1,500	533.00/M	744774147
68.0	460.00	0.64	732-1277-1-ND	1.60	1.34	1.14	—	—	744774168
100.0	650.00	0.57	732-1278-1-ND	1.60	1.34	1.14	1,500	533.00/M	74477420
MS-Type — Fig. 3									
0.27	5.30	8.20	732-1308-1-ND	1.41	1.18	1.00	2,000	469.00/M	74477450027
0.56	9.50	6.50	732-1309-1-ND	1.41	1.18	1.00	2,000	469.00/M	74477450056
0.82	14.00	5.40	732-1310-1-ND	1.41	1.18	1.00	2,000	469.00/M	74477450082
2.20	36.00	3.60	732-1313-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745022
3.30	49.00	3.00	732-1314-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745033
3.90	54.00	2.80	732-1315-1-ND	1.41	1.18	1.00	—	—	7447745039
4.70	65.00	2.50	732-1316-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745047
5.60	78.00	2.30	732-1317-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745056
6.20	90.00	2.10	732-1318-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745062
10.00	130.00	1.70	732-1320-1-ND	1.41	1.18	1.00	2,000	469.00/M	7447745100
L-Type — Fig. 4									
3.30	20.00	4.60	732-1281-1-ND	1.85	1.55	1.32	—	—	744775033A
4.70	30.00	3.70	732-1282-1-ND	1.85	1.55	1.32	—	—	744775047A
6.80	40.00	3.20	732-1283-1-ND	1.85	1.55	1.32	—	—	744775068A
L-Type — Fig. 5									
12.0	80.00	2.18	732-1285-1-ND	1.85	1.55	1.32	—	—	744775112
18.0	100.00	1.89	732-1286-1-ND	1.85	1.55	1.32	—	—	744775118
22.0	110.00	1.76	732-1287-1-ND	1.85	1.55	1.32	500	386.00	744775122
39.0	160.00	1.25	732-1289-1-ND	1.85	1.55	1.32	—	—	744775139
47.0	180.00	1.17	732-1290-1-ND	1.85	1.55	1.32	500	386.00	744775147
68.0	280.00	0.99	732-1291-1-ND	1.85	1.55	1.32	—	—	744775168
100.0	430.00	0.77	732-1292-1-ND	1.85	1.55	1.32	500	386.00	74477520
XL-Type — Fig. 6									
1.2	20.00	5.50	732-1293-1-ND	2.11	1.76	1.50	—	—	744776012A
2.2	20.00	5.40	732-1294-1-ND	2.11	1.76	1.50	—	—	744776022A
3.3	20.00	5.00	732-1295-1-ND	2.11	1.76	1.50	800	675.20	744776033A
4.7	40.00	4.00	732-1296-1-ND	2.11	1.76	1.50	—	—	744776047A
XL-Type — Fig. 7									
10.0	60.00	2.98	732-1298-1-ND	2.11	1.76	1.50	—	—	74477610
12.0	70.00	2.72	732-1299-1-ND	2.11	1.76	1.50	—	—	744776112
18.0	90.00	2.36	732-1300-1-ND	2.11	1.76	1.50	500	439.50	744776118
22.0	100.00	2.04	732-1301-1-ND	2.11	1.76	1.50	500	439.50	744776122
27.0	110.00	1.95	732-1397-1-ND	2.11	1.76	1.50	—	—	744776127
33.0	120.00	1.78	732-1302-1-ND	2.11	1.76	1.50	500	439.50	744776133
39.0	140.00	1.62	732-1303-1-ND	2.11	1.76	1.50	500	439.50	744776139
47.0	170.00	1.45	732-1304-1-ND	2.11	1.76	1.50	500	439.50	744776147
56.0	190.00	1.36	732-1398-1-ND	2.11	1.76	1.50	—	—	744776156
68.0	220.00	1.19	732-1305-1-ND	2.11	1.76	1.50	500	439.50	744776168
82.0	250.00	1.11	732-1399-1-ND	1.98	1.65	1.41	—	—	744776182
100.0	350.00	1.02	732-1306-1-ND	2.11	1.76	1.50	500	439.50	74477620

† For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722) WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit)................... **$45.00**
732-1645-ND (744720) WE-PD/PD2/PD3/PD4 Series Kit (See Digi-Key website for contents of kit)............ **$120.00**

WE-PD3 Series — Shielded SMD Power Inductors

Features:

• Magnetically shielded version which results in a low leakage field • Extremely low profile • Low inherent losses • High storage capacity • Operating temperature: -40°C ~ 125°C • Recommended solder profile: Reflow

Applications:

• EMI filter • Perfectly suitable for switching regulators with extremely high efficiency

Dim. in mm

Fig. 1

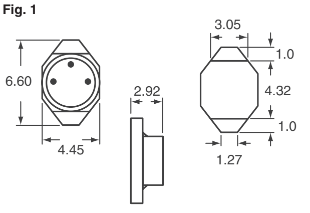

Fig. 2

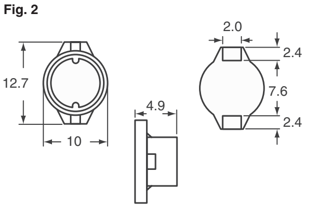

Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
S-Type — Fig. 1									
1.0	0.040	3.0	732-1402-1-ND	1.58	1.32	1.13	500	330.00	7445101
2.2	0.050	1.80	732-1403-1-ND	1.58	1.32	1.13	500	330.00	74451022
3.3	0.055	1.60	732-1404-1-ND	1.58	1.32	1.13	500	330.00	74451033
4.7	0.060	1.40	732-1405-1-ND	1.58	1.32	1.13	500	330.00	74451047
6.8	0.065	1.20	732-1406-1-ND	1.58	1.32	1.13	500	330.00	74451068
10.0	0.075	1.00	732-1407-1-ND	1.58	1.32	1.13	500	330.00	7445110
22.0	0.110	0.70	732-1409-1-ND	1.58	1.32	1.13	1,000	528.00	74451122
33.0	0.190	0.60	732-1410-1-ND	1.58	1.32	1.13	500	330.00	74451133
47.0	0.230	0.50	732-1411-1-ND	1.58	1.32	1.13	500	330.00	74451147
L-Type — Fig. 2									
4.7	0.040	2.70	732-1412-1-ND	1.58	1.32	1.13	600	396.00	7445404

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! WE-DD Series — SMD Shielded Coupled Inductors

Dimensions in mm

Features:
- 1:1 Transformer
- Double inductor with two identical windings
- Operating temperature: -40°C ~ 125°C

Applications:
- SEPIC and CUK switching regulators
- Flyback applications
- Switching regulators with second, unregulated output voltage

Fig. 1

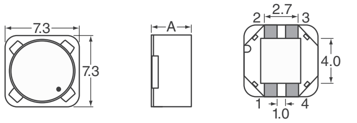

Fig. 2

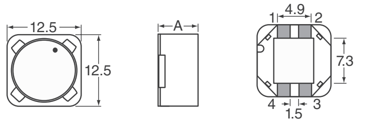

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
S-Type — Fig. 1										
1.3	35	4.40	4.0	732-2299-1-ND	3.54	2.95	2.51	1,000	1180.00	744878001
2.4	52	3.60	4.0	732-2300-1-ND	3.54	2.95	2.51	1,000	1180.00	744878002
3.3	64	3.30	4.0	732-2301-1-ND	3.54	2.95	2.51	1,000	1180.00	744878003
4.7	75	1.30	4.0	732-2302-1-ND	3.54	2.95	2.51	1,000	1180.00	744878004
6.8	135	1.20	4.0	732-2303-1-ND	3.54	2.95	2.51	1,000	1180.00	744878006
10	150	1.00	4.0	732-2304-1-ND	3.54	2.95	2.51	1,000	1180.00	744878100
22	300	0.70	4.0	732-2305-1-ND	3.54	2.95	2.51	1,000	1180.00	744878220
47	750	0.90	4.0	732-2306-1-ND	3.54	2.95	2.51	1,000	1180.00	744878470
100	1730	0.30	4.0	732-2307-1-ND	3.54	2.95	2.51	1,000	1180.00	744878101
M-Type — Fig. 1										
1.8	34	4.70	4.8	732-2308-1-ND	3.66	3.05	2.60	1,000	1220.00	744877001
2.4	42	4.20	4.8	732-2309-1-ND	3.66	3.05	2.60	1,000	1220.00	744877002
3.3	52	3.70	4.8	732-2310-1-ND	3.66	3.05	2.60	1,000	1220.00	744877003
4.7	64	1.55	4.8	732-2311-1-ND	3.66	3.05	2.60	1,000	1220.00	744877004
10	120	1.10	4.8	732-2312-1-ND	3.66	3.05	2.60	1,000	1220.00	744877100
22	260	0.80	4.8	732-2313-1-ND	3.66	3.05	2.60	1,000	1220.00	744877220
100	1300	0.65	4.8	732-2314-1-ND	3.66	3.05	2.60	1,000	1220.00	744877101
L-Type — Fig. 2										
4.7	28	3.00	6.5	732-2315-1-ND	4.08	3.40	2.89	500	850.00	744871004
6.8	40	2.80	6.5	732-2316-1-ND	4.08	3.40	2.89	500	850.00	744871006
10	50	2.00	6.5	732-2317-1-ND	4.08	3.40	2.89	500	850.00	744871100
22	90	1.85	6.5	732-2318-1-ND	4.08	3.40	2.89	500	850.00	744871220
33	170	1.20	6.5	732-2319-1-ND	4.08	3.40	2.89	500	850.00	744871330
47	180	1.10	6.5	732-2320-1-ND	4.08	3.40	2.89	500	850.00	744871470
1.5	16	5.85	6.5	732-2337-1-ND	4.08	3.40	2.89	500	850.00	744874001
2.4	17.5	5.50	6.5	732-2338-1-ND	4.08	3.40	2.89	500	850.00	744874002
3.3	22	4.91	6.5	732-2339-1-ND	4.08	3.40	2.89	500	850.00	744874003
4.7	28	4.22	6.5	732-2340-1-ND	4.08	3.40	2.89	500	850.00	744874004
6.8	32	3.90	6.5	732-2341-1-ND	4.08	3.40	2.89	500	850.00	744874006
10	44	3.28	6.5	732-2342-1-ND	4.08	3.40	2.89	500	850.00	744874100
22	80	2.47	6.5	732-2343-1-ND	4.08	3.40	2.89	500	850.00	744874220
100	320	1.20	6.5	732-2344-1-ND	4.08	3.40	2.89	500	850.00	744874101

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
XL-Type — Fig. 2										
1.5	16	8.60	8.5	732-2321-1-ND	4.20	3.50	2.98	500	875.00	7448700015
2.4	18	7.80	8.5	732-2322-1-ND	4.20	3.50	2.98	500	875.00	744870002
3.3	21	7.10	8.5	732-2323-1-ND	4.20	3.50	2.98	500	875.00	744870003
4.7	30	3.60	8.5	732-2324-1-ND	4.20	3.50	2.98	500	875.00	744870004
6.8	35	3.20	8.5	732-2325-1-ND	4.20	3.50	2.98	500	875.00	744870006
10	44	2.70	8.5	732-2326-1-ND	4.20	3.50	2.98	500	875.00	744870100
22	80	2.45	8.5	732-2327-1-ND	4.20	3.50	2.98	500	875.00	744870220
47	150	1.45	8.5	732-2328-1-ND	4.20	3.50	2.98	500	875.00	744870470
68	215	1.35	8.5	732-2329-1-ND	4.20	3.50	2.98	500	875.00	744870680
100	300	1.40	8.5	732-2330-1-ND	4.20	3.50	2.98	500	875.00	744870101
150	400	1.00	8.5	732-2331-1-ND	4.20	3.50	2.98	500	875.00	744870151
220	650	0.90	8.5	732-2332-1-ND	4.20	3.50	2.98	500	875.00	744870221
1.5	15	6.25	8.5	732-2345-1-ND	4.20	3.50	2.98	500	875.00	744873001
2.4	16	6.00	8.5	732-2346-1-ND	4.20	3.50	2.98	500	875.00	744873002
3.3	22	5.14	8.5	732-2347-1-ND	4.20	3.50	2.98	500	875.00	744873003
4.7	24	4.87	8.5	732-2348-1-ND	4.20	3.50	2.98	500	875.00	744873004
10	36	3.81	8.5	732-2349-1-ND	4.20	3.50	2.98	500	875.00	744873100
15	55	3.30	8.5	732-2350-1-ND	4.20	3.50	2.98	500	875.00	744873150
22	70	2.79	8.5	732-2351-1-ND	4.20	3.50	2.98	500	875.00	744873220
33	105	2.25	8.5	732-2352-1-ND	4.20	3.50	2.98	500	875.00	744873330
47	125	2.02	8.5	732-2353-1-ND	4.20	3.50	2.98	500	875.00	744873470
68	190	1.66	8.5	732-2354-1-ND	4.20	3.50	2.98	500	875.00	744873680
100	255	1.38	8.5	732-2355-1-ND	4.20	3.50	2.98	500	875.00	744873101
220	580	0.91	8.5	732-2356-1-ND	4.20	3.50	2.98	500	875.00	744873221
XXL-Type — Fig. 2										
10	40	3.20	10.5	732-2333-1-ND	4.68	3.90	3.32	250	536.25	7448709100
22	80	3.50	10.5	732-2334-1-ND	4.68	3.90	3.32	250	536.25	7448709220
33	100	2.00	10.5	732-2335-1-ND	4.68	3.90	3.32	250	536.25	7448709330
47	130	1.90	10.5	732-2336-1-ND	4.68	3.90	3.32	250	536.25	7448709470

† For Tape and Reel part number, change 1-ND to 2-ND.

WE-PD4 Series — SMD Power Inductors

Features: • Compact Size • Current loading up to 35A • Industry standard size • Low-loss ferrite core • High storage capacity • Operating temperature: -40°C ~ 125°C • Application frequency range up to 10MHz • Recommended solder profile: Reflow

Applications: • Noise suppression • Perfectly suitable for switching regulators with extremely high efficiency

Dimensions in mm

Fig. 1

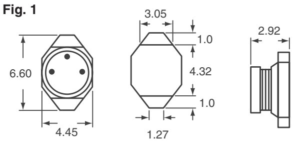

Fig. 2

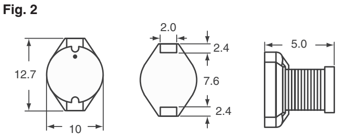

Fig. 3

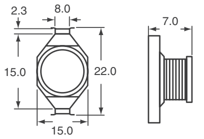

Fig. 4

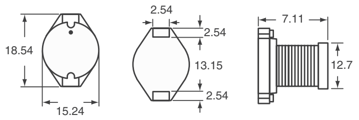

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
S-Type — Fig. 1									
1.0	50.0	2.90	732-1329-1-ND	1.52	1.27	1.08	500	316.50	7445501
1.5	50.0	2.80	732-1330-1-ND	1.52	1.27	1.08	500	316.50	74455015
2.2	70.0	2.40	732-1331-1-ND	1.52	1.27	1.08	500	316.50	74455022
3.3	80.0	2.00	732-1332-1-ND	1.52	1.27	1.08	500	316.50	74455033
4.7	90.0	1.50	732-1333-1-ND	1.52	1.27	1.08	500	316.50	74455047
6.8	130.0	1.40	732-1334-1-ND	1.52	1.27	1.08	500	316.50	74455068
10	160.0	1.20	732-1335-1-ND	1.52	1.27	1.08	500	316.50	7445510
15	230.0	1.10	732-1336-1-ND	1.52	1.27	1.08	500	316.50	74455115
22	370.0	0.80	732-1337-1-ND	1.52	1.27	1.08	500	316.50	74455122
33	510.0	0.60	732-1338-1-ND	1.52	1.27	1.08	500	316.50	74455133
47	640.0	0.50	732-1339-1-ND	1.52	1.27	1.08	500	316.50	74455147
100	1270.0	0.30	732-1341-1-ND	1.52	1.27	1.08	500	316.50	7445520
L-Type — Fig. 2									
1.0	7.0	8.60	732-1342-1-ND	1.58	1.32	1.13	600	396.00	7445601
3.3	15.0	5.30	732-1345-1-ND	1.58	1.32	1.13	600	396.00	74456033
4.7	19.0	5.00	732-1346-1-ND	1.58	1.32	1.13	600	396.00	74456047
5.6	32.0	4.00	732-1347-1-ND	1.47	1.23	1.05	—	—	74456056
6.8	34.0	3.80	732-1348-1-ND	1.58	1.32	1.13	600	396.00	74456068
8.2	40.0	3.20	732-1349-1-ND	1.47	1.23	1.05	—	—	74456082
10.0	45.0	3.30	732-1350-1-ND	1.58	1.32	1.13	600	396.00	7445610
15.0	60.0	2.90	732-1351-1-ND	1.58	1.32	1.13	600	396.00	74456115
22.0	95.0	2.60	732-1352-1-ND	1.58	1.32	1.13	600	396.00	74456122
33.0	120.0	2.30	732-1353-1-ND	1.58	1.32	1.13	600	396.00	74456133
47.0	190.0	1.80	732-1354-1-ND	1.58	1.32	1.13	600	396.00	74456147
68.0	240.0	1.60	732-1355-1-ND	1.58	1.32	1.13	600	396.00	74456168
100.0	330.0	1.40	732-1356-1-ND	1.58	1.32	1.13	600	396.00	7445620
220.0	780.0	0.90	732-1400-1-ND	1.58	1.32	1.13	600	396.00	74456222
470.0	1700.0	0.60	732-1401-1-ND	1.58	1.32	1.13	600	396.00	74456247

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
XL-Type — Fig. 3									
1.2	3.8	15.0	732-1358-1-ND	2.24	1.87	1.59	—	—	74457012
1.8	5.4	13.0	732-1359-1-ND	2.41	2.01	1.71	250	276.00	74457018
3.3	9.2	9.0	732-1361-1-ND	2.24	1.87	1.59	—	—	74457033
4.7	11.0	8.5	732-1362-1-ND	2.41	2.01	1.71	250	276.00	74457047
5.6	15.0	7.8	732-1363-1-ND	2.24	1.87	1.59	—	—	74457056
6.8	17.0	7.5	732-1364-1-ND	2.24	1.87	1.59	—	—	74457068
8.2	19.0	7.0	732-1365-1-ND	2.24	1.87	1.59	—	—	74457082
10.0	21.0	6.5	732-1366-1-ND	2.41	2.01	1.71	250	276.00	7445710
15.0	35.0	5.0	732-1368-1-ND	2.41	2.01	1.71	250	276.00	74457115
18.0	40.0	4.6	732-1369-1-ND	2.24	1.87	1.59	—	—	74457118
22.0	47.0	4.0	732-1370-1-ND	2.41	2.01	1.71	250	276.00	74457122
33.0	70.0	3.4	732-1371-1-ND	2.41	2.01	1.71	250	276.00	74457133
47.0	109.0	2.8	732-1372-1-ND	2.41	2.01	1.71	250	276.00	74457147
56.0	116.0	2.6	732-1373-1-ND	2.24	1.87	1.59	—	—	74457156
100.0	202.0	2.0	732-1376-1-ND	2.41	2.01	1.71	250	276.00	7445720
X-Type — Fig. 4									
1.0	9.0	8.60	732-1377-1-ND	1.53	1.28	1.09	—	—	74458001
5.6	20.0	5.30	732-1380-1-ND	1.53	1.28	1.09	—	—	74458005
10	31.0	4.30	732-1381-1-ND	1.66	1.38	1.18	300	227.70	74458010
15	36.0	4.00	732-1382-1-ND	1.66	1.38	1.18	300	227.70	74458115
22	47.0	3.50	732-1383-1-ND	1.66	1.38	1.18	300	227.70	74458122
33	66.0	3.00	732-1384-1-ND	1.66	1.38	1.18	300	227.70	74458133
47	86.0	2.60	732-1385-1-ND	1.66	1.38	1.18	300	227.70	74458147
68	130.0	2.30	732-1386-1-ND	1.66	1.38	1.18	300	227.70	74458168
100	190.0	1.80	732-1387-1-ND	1.66	1.38	1.18	300	227.70	7445820

† For Tape and Reel part number, change 1-ND to 2-ND.

732-1645-ND (744720) WE-PD/PD2/PD3/PD4 Series Kit (See Digi-Key website for contents of kit)… **$120.00**

Midcom WÜRTH ELEKTRONIK

WE-KI Series — Wire Wound Ceramic Inductors

Digi-Reel® RoHS COMPLIANT

Features:

- High thermal stability
- Operating Temperature: -40°C ~ 125°C
- Offers excellent Q factor and highest possible self resonant frequencies up to 12.7GHz

Applications:

- Developed for high frequency applications
- Telecommunications
- Bluetooth
- Wireless LAN

Case Size	Dimensions (mm)				
	A	B	C	D	E
0402	1.0	0.55	0.5	—	0.2
0603C	1.65	1.15	0.9	0.5	.03
0805C	2.28	1.70	1.28	0.5	0.51
1008	2.5	2.0	1.6	0.5	0.5

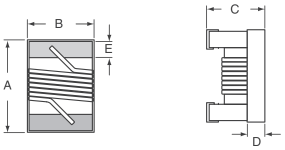

Case Size	Inductance (nH)	Tolerance (±)	Q Factor	Self Resonant Frequency	Rated Current (mA)	DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Würth Part No.
								1	25	100	Qty.	Pricing	
0402	1.0	0.2nH	26	6,000	1,360	0.045	732-1703-1-ND	.53	.45	.38	3,000	156.00/M	744765010A
	1.9	0.2nH	29	6,000	1,040	0.070	732-1704-1-ND	.53	.45	.38	3,000	156.00/M	744765019A
	2.0	0.2nH	16	6,000	1,040	0.070	732-1705-1-ND	.53	.45	.38	3,000	156.00/M	744765020A
	2.2	0.2nH	32	6,000	960	0.070	732-1706-1-ND	.53	.45	.38	3,000	156.00/M	744765022A
	2.4	0.2nH	35	6,000	790	0.068	732-1707-1-ND	.53	.45	.38	3,000	156.00/M	744765024A
	2.7	0.2nH	31	6,000	640	0.120	732-1708-1-ND	.53	.45	.38	3,000	156.00/M	744765027A
	3.3	5%	41	6,000	840	0.066	732-1709-1-ND	.53	.45	.38	3,000	156.00/M	744765033A
	3.6	5%	43	6,000	840	0.066	732-1710-1-ND	.53	.45	.38	3,000	156.00/M	744765036A
	3.9	5%	41	5,800	840	0.066	732-1711-1-ND	.53	.45	.38	3,000	156.00/M	744765039A
	4.3	5%	45	6,000	700	0.091	732-1712-1-ND	.53	.45	.38	3,000	156.00/M	744765043A
	4.7	5%	45	4,775	640	0.130	732-1713-1-ND	.53	.45	.38	3,000	156.00/M	744765047A
	5.1	5%	49	5,800	800	0.083	732-1714-1-ND	.53	.45	.38	3,000	156.00/M	744765051A
	5.6	5%	46	5,800	760	0.083	732-1715-1-ND	.53	.45	.38	3,000	156.00/M	744765056A
	6.2	5%	49	5,800	760	0.083	732-1716-1-ND	.53	.45	.38	3,000	156.00/M	744765062A
	6.8	5%	50	4,800	680	0.083	732-1717-1-ND	.53	.45	.38	3,000	156.00/M	744765068A
	7.5	5%	50	5,800	680	0.104	732-1718-1-ND	.53	.45	.38	3,000	156.00/M	744765075A
	8.2	5%	49	4,400	680	0.104	732-1719-1-ND	.53	.45	.38	3,000	156.00/M	744765082A
	8.7	5%	50	4,100	480	0.200	732-1720-1-ND	.53	.45	.38	3,000	156.00/M	744765087A
	9.0	5%	49	4,160	680	0.104	732-1721-1-ND	.53	.45	.38	3,000	156.00/M	744765090A
	9.5	5%	45	4,000	680	0.200	732-1722-1-ND	.53	.45	.38	3,000	156.00/M	744765095A
	10.0	5%	47	3,900	480	0.195	732-1723-1-ND	.53	.45	.38	3,000	156.00/M	744765110A
	11.0	5%	56	3,680	640	0.120	732-1724-1-ND	.53	.45	.38	3,000	156.00/M	744765111A
	12.0	5%	51	3,600	640	0.120	732-1725-1-ND	.53	.45	.38	3,000	156.00/M	744765112A
	13.0	5%	54	3,450	560	0.210	732-1726-1-ND	.53	.45	.38	3,000	156.00/M	744765113A
	15.0	5%	54	3,280	560	0.172	732-1727-1-ND	.53	.45	.38	3,000	156.00/M	744765115A
	16.0	5%	54	3,100	560	0.220	732-1728-1-ND	.53	.45	.38	3,000	156.00/M	744765116A
	18.0	5%	52	3,100	420	0.230	732-1729-1-ND	.53	.45	.38	3,000	156.00/M	744765118A
	19.0	5%	50	3,040	480	0.202	732-1730-1-ND	.53	.45	.38	3,000	156.00/M	744765119A
	20.0	5%	51	3,000	420	0.250	732-1731-1-ND	.53	.45	.38	3,000	156.00/M	744765120A
	22.0	5%	52	2,800	400	0.300	732-1732-1-ND	.53	.45	.38	3,000	156.00/M	744765122A
	23.0	5%	53	2,720	400	0.214	732-1733-1-ND	.53	.45	.38	3,000	156.00/M	744765123A
	24.0	5%	51	2,700	400	0.300	732-1734-1-ND	.53	.45	.38	3,000	156.00/M	744765124A
	27.0	5%	48	2,480	400	0.298	732-1735-1-ND	.53	.45	.38	3,000	156.00/M	744765127A
	30.0	5%	46	2,350	400	0.300	732-1736-1-ND	.53	.45	.38	3,000	156.00/M	744765130A
	33.0	5%	48	2,350	400	0.350	732-1737-1-ND	.53	.45	.38	3,000	156.00/M	744765133A
	36.0	5%	48	2,320	320	0.403	732-1738-1-ND	.53	.45	.38	3,000	156.00/M	744765136A
	39.0	5%	45	2,100	320	0.550	732-1739-1-ND	.53	.45	.38	3,000	156.00/M	744765139A
	40.0	5%	48	2,240	320	0.438	732-1740-1-ND	.53	.45	.38	3,000	156.00/M	744765140A
	43.0	5%	46	2,030	100	0.810	732-1741-1-ND	.53	.45	.38	3,000	156.00/M	744765143A
	47.0	5%	46	2,100	100	0.830	732-1742-1-ND	.53	.45	.38	3,000	156.00/M	744765147A
	51.0	5%	40	1,750	100	0.820	732-1743-1-ND	.53	.45	.38	3,000	156.00/M	744765151A
	56.0	5%	42	1,760	100	0.970	732-1744-1-ND	.53	.45	.38	3,000	156.00/M	744765156A
	100	5%	20	1,300	100	2.520	732-1745-1-ND	.53	.45	.38	3,000	156.00/M	744765210A
0603C	1.6	5%	18	12,500	700	0.030	732-1746-1-ND	.50	.42	.36	3,000	147.00/M	744761016C
	3.9	5%	22	6,900	700	0.07	732-1747-1-ND	.50	.42	.36	3,000	147.00/M	744761039C
	4.3	5%	22	5,900	700	0.07	732-1748-1-ND	.50	.42	.36	3,000	147.00/M	744761043C
	4.7	5%	20	5,800	700	0.08	732-1749-1-ND	.50	.42	.36	3,000	147.00/M	744761047C
	5.1	5%	18	5,700	700	0.15	732-1750-1-ND	.50	.42	.36	3,000	147.00/M	744761051C
	5.6	5%	16	5,700	700	0.19	732-1751-1-ND	.50	.42	.36	3,000	147.00/M	744761056C
	7.5	5%	28	4,800	700	0.10	732-1752-1-ND	.50	.42	.36	3,000	147.00/M	744761075C
	8.2	5%	28	4,700	700	0.10	732-1753-1-ND	.50	.42	.36	3,000	147.00/M	744761082C
	8.7	5%	28	4,600	700	0.10	732-1754-1-ND	.50	.42	.36	3,000	147.00/M	744761087C
	11	5%	30	4,000	700	0.10	732-1755-1-ND	.50	.42	.36	3,000	147.00/M	744761111C
	12	5%	32	4,000	700	0.10	732-1756-1-ND	.50	.42	.36	3,000	147.00/M	744761112C
	18	5%	35	3,100	700	0.12	732-1757-1-ND	.50	.42	.36	3,000	147.00/M	744761118C
	20	5%	35	3,100	700	0.12	732-1758-1-ND	.50	.42	.36	3,000	147.00/M	744761120C
	24	5%	35	2,650	700	0.14	732-1759-1-ND	.50	.42	.36	3,000	147.00/M	744761124C
	33	5%	36	2,300	600	0.20	732-1760-1-ND	.50	.42	.36	3,000	147.00/M	744761133C
	36	5%	36	2,080	600	0.20	732-1761-1-ND	.50	.42	.36	3,000	147.00/M	744761136C
	39	5%	36	2,200	600	0.21	732-1762-1-ND	.50	.42	.36	3,000	147.00/M	744761139C
	47	5%	35	2,000	600	0.23	732-1763-1-ND	.50	.42	.36	3,000	147.00/M	744761147C
	51	5%	32	1,950	600	0.24	732-1764-1-ND	.50	.42	.36	3,000	147.00/M	744761151C
	56	5%	32	1,900	600	0.25	732-1765-1-ND	.50	.42	.36	3,000	147.00/M	744761156C
	68	5%	32	1,700	600	0.35	732-1766-1-ND	.50	.42	.36	3,000	147.00/M	744761168C
	82	5%	30	1,700	400	0.58	732-1767-1-ND	.50	.42	.36	3,000	147.00/M	744761182C
	120	5%	30	1,300	300	0.65	732-1768-1-ND	.50	.42	.36	3,000	147.00/M	744761212C
	150	5%	30	990	280	0.85	732-1769-1-ND	.50	.42	.36	3,000	147.00/M	744761215C
	180	5%	25	990	250	1.00	732-1770-1-ND	.50	.42	.36	3,000	147.00/M	744761218C
	220	5%	25	900	250	1.80	732-1771-1-ND	.50	.42	.36	3,000	147.00/M	744761222C
	270	5%	25	822	200	2.10	732-1772-1-ND	.50	.42	.36	3,000	147.00/M	744761227C
	330	5%	25	500	150	2.00	732-1773-1-ND	.50	.42	.36	3,000	147.00/M	744761233A
0805C	2.7	5%	30	7,900	800	0.10	732-1774-1-ND	.54	.45	.39	3,000	158.00/M	744760027C
	5.6	5%	40	5,500	600	0.10	732-1775-1-ND	.54	.45	.39	3,000	158.00/M	744760056C
	6.8	5%	50	5,500	600	0.11	732-1776-1-ND	.54	.45	.39	3,000	158.00/M	744760068C
	10	5%	50	4,200	600	0.12	732-1777-1-ND	.54	.45	.39	3,000	158.00/M	74476010C
	12	5%	45	4,000	600	0.15	732-1778-1-ND	.54	.45	.39	3,000	158.00/M	744760112C
	15	5%	50	3,400	600	0.17	732-1779-1-ND	.54	.45	.39	3,000	158.00/M	744760115C
	18	5%	50	3,300	500	0.20	732-1780-1-ND	.54	.45	.39	3,000	158.00/M	744760118C
	22	5%	55	2,600	500	0.22	732-1781-1-ND	.54	.45	.39	3,000	158.00/M	74476012C
	27	5%	55	2,500	500	0.25	732-1782-1-ND	.54	.45	.39	3,000	158.00/M	744760127C
	33	5%	60	2,050	500	0.27	732-1783-1-ND	.54	.45	.39	3,000	158.00/M	74476013C
	39	5%	50	2,000	500	0.29	732-1784-1-ND	.54	.45	.39	3,000	158.00/M	744760139C
	47	5%	50	1,650	500	0.31	732-1785-1-ND	.54	.45	.39	3,000	158.00/M	74476014C
	56	5%	50	1,550	500	0.34	732-1786-1-ND	.54	.45	.39	3,000	158.00/M	74476015C
	68	5%	50	1,450	500	0.38	732-1787-1-ND	.54	.45	.39	3,000	158.00/M	74476016C
	82	5%	50	1,300	400	0.42	732-1788-1-ND	.54	.45	.39	3,000	158.00/M	74476018C
	100	5%	50	1,200	400	0.46	732-1789-1-ND	.54	.45	.39	3,000	158.00/M	7447602C
	120	5%	35	1,100	400	0.51	732-1790-1-ND	.54	.45	.39	3,000	158.00/M	744760212C
	150	5%	40	920	400	0.56	732-1791-1-ND	.54	.45	.39	3,000	158.00/M	744760215C
	180	5%	35	870	400	0.96	732-1792-1-ND	.54	.45	.39	3,000	158.00/M	744760218C

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Midcom WÜRTH ELEKTRONIK

WE-KI Series — Wire Wound Ceramic Inductors *(Cont.)*

Case Size	Inductance (nH)	Tolerance (±)	Q Factor	Self Resonant Frequency	Rated Current (mA)	DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
0805C	220	5%	35	850	400	1.00	732-1793-1-ND	.54	.45	.39	3,000	158.00/M	744760222C
	270	5%	35	650	350	1.29	732-1794-1-ND	.54	.45	.39	3,000	158.00/M	744760227C
	330	5%	35	600	310	1.56	732-1795-1-ND	.54	.45	.39	3,000	158.00/M	744760233C
	390	5%	35	560	290	2.10	732-1796-1-ND	.54	.45	.39	3,000	158.00/M	744760239C
	470	5%	30	375	250	2.30	732-1797-1-ND	.54	.45	.39	3,000	158.00/M	74476032C
	560	5%	23	340	230	2.50	732-1798-1-ND	.54	.45	.39	3,000	158.00/M	744760256C
	620	5%	23	188	400	2.70	732-1799-1-ND	.54	.45	.39	3,000	158.00/M	744760262C
	680	5%	23	188	190	2.80	732-1800-1-ND	.54	.45	.39	3,000	158.00/M	7447604C
	820	5%	23	215	180	3.90	732-1801-1-ND	.54	.45	.39	3,000	158.00/M	744760282C
	1,000	5%	23	285	150	4.20	732-1802-1-ND	.54	.45	.39	3,000	158.00/M	744760310C
	1,200	5%	20	200	150	4.60	732-1803-1-ND	.54	.45	.39	3,000	158.00/M	744760312C
	1,500	5%	20	200	130	5.30	732-1804-1-ND	.54	.45	.39	3,000	158.00/M	744760315C
1008	3.3	0.2nH	50	6,000	1,000	0.06	732-1805-1-ND	.59	.49	.42	2,000	196.00/M	744762033A
	6.8	5%	50	5,500	1,000	0.06	732-1806-1-ND	.59	.49	.42	2,000	196.00/M	744762068A
	8.2	5%	50	5,500	1,000	0.06	732-1807-1-ND	.59	.49	.42	2,000	196.00/M	744762082A
	10	5%	50	4,300	1,000	0.08	732-1808-1-ND	.59	.49	.42	2,000	196.00/M	744762110A
	12	5%	60	3,600	1,000	0.08	732-1809-1-ND	.59	.49	.42	2,000	196.00/M	744762112A
	15	5%	60	2,700	1,000	0.08	732-1810-1-ND	.59	.49	.42	2,000	196.00/M	744762115A
	18	5%	60	2,700	1,000	0.10	732-1811-1-ND	.59	.49	.42	2,000	196.00/M	744762118A
	22	5%	60	2,500	1,000	0.10	732-1812-1-ND	.59	.49	.42	2,000	196.00/M	744762122A
	27	5%	60	1,800	1,000	0.10	732-1813-1-ND	.59	.49	.42	2,000	196.00/M	744762127A
	33	5%	60	1,700	1,000	0.10	732-1814-1-ND	.59	.49	.42	2,000	196.00/M	744762133A
	39	5%	60	1,500	1,000	0.10	732-1815-1-ND	.59	.49	.42	2,000	196.00/M	744762139A
	47	5%	60	1,500	1,000	0.10	732-1816-1-ND	.59	.49	.42	2,000	196.00/M	744762147A
	56	5%	60	1,350	1,000	0.12	732-1817-1-ND	.59	.49	.42	2,000	196.00/M	744762156A
	68	5%	60	1,300	1,000	0.15	732-1818-1-ND	.59	.49	.42	2,000	196.00/M	744762168A
	82	5%	60	1,100	1,000	0.18	732-1819-1-ND	.59	.49	.42	2,000	196.00/M	744762182A
	100	5%	60	1,100	1,000	0.18	732-1820-1-ND	.59	.49	.42	2,000	196.00/M	744762210A
	120	5%	45	950	800	0.20	732-1821-1-ND	.59	.49	.42	2,000	196.00/M	744762212A
	150	5%	45	880	800	0.22	732-1822-1-ND	.59	.49	.42	2,000	196.00/M	744762215A
	180	5%	45	800	800	0.33	732-1823-1-ND	.59	.49	.42	2,000	196.00/M	744762218A
	220	5%	45	730	800	0.45	732-1824-1-ND	.59	.49	.42	2,000	196.00/M	744762222A
	270	5%	45	650	600	0.75	732-1825-1-ND	.59	.49	.42	2,000	196.00/M	744762227A
	330	5%	45	570	500	0.90	732-1826-1-ND	.59	.49	.42	2,000	196.00/M	744762233A
	390	5%	45	530	470	1.06	732-1827-1-ND	.59	.49	.42	2,000	196.00/M	744762239A
	470	5%	45	480	420	1.17	732-1828-1-ND	.59	.49	.42	2,000	196.00/M	744762247A
	560	5%	45	430	310	1.50	732-1829-1-ND	.59	.49	.42	2,000	196.00/M	744762256A
	680	5%	45	380	230	2.06	732-1830-1-ND	.59	.49	.42	2,000	196.00/M	744762268A
	820	5%	45	350	180	2.30	732-1831-1-ND	.59	.49	.42	2,000	196.00/M	744762282A
	1,000	5%	35	310	120	3.30	732-1832-1-ND	.59	.49	.42	2,000	196.00/M	744762310A

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! WE-PMI Series SMD-Power Multilayer Inductors

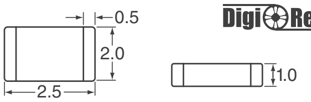

Features:
- Ferrite Core • Operating Temperature: -40°C ~ 125°C • Compact multilayer type • No crosstalk

Applications:
- DC/DC converters especially at high switching frequencies • Portable devices like PDA and digital cameras

Case Size	Inductance (µH)	Tolerance (±)	Q Factor	Self Resonant Frequency (MHz)	Rated Current (A)	DC Resistance (mΩ)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
1008	1	20%	15	100	1.0	290	732-2506-1-ND	1.80	1.50	1.28	3,000	525.00/M	74479887210
	2.2	20%	19	70	0.85	400	732-2507-1-ND	1.80	1.50	1.28	3,000	525.00/M	74479887222
	4.7	20%	26	50	0.75	530	732-2508-1-ND	1.80	1.50	1.28	3,000	525.00/M	74479887247
	6.8	20%	30	40	0.70	650	732-2509-1-ND	1.80	1.50	1.28	3,000	525.00/M	74479887268
	10	20%	35	30	0.50	700	732-2510-1-ND	1.80	1.50	1.28	3,000	525.00/M	74479887310

† For Tape and Reel part number, change 1-ND to 2-ND.

AVX

High-Q RF SMD Inductors

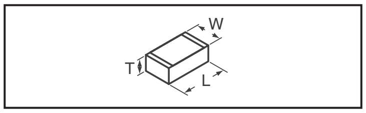

Series	Dimensions - (mm) L	W	T
0402	1.0	0.58	0.35
0603	1.6	0.81	0.61

The Accu-L® SMD Inductor is based on thin-film multilayer technology. This technology provides a level of control on the electrical and physical characteristics of the component which gives consistent characteristics within a lot and lot-to-lot. The original design provides small size, excellent high-frequency performance and rugged construction for reliable automatic assembly. The Accu-L Inductor is particularly suited for the telecommunications industry where there is a continuing trend towards miniaturization and increasing frequencies. The Accu-L Inductor meets both the performance and tolerance requirements of present cellular frequencies 450MHz and 900MHz and of future frequencies, such as 1700MHz, 1900MHz and 2400MHz.

Features:
- High-Q • RF Power Capability • High SRF • Low DC Resistance • Ultra-Tight Tolerance on Inductance • Low Profile • Rugged Construction

Operating / Storage Temperature: -55°C ~ 125°C

Inductance (nH)	Tolerance ± (nH)	Q Typical	SRF Min. (GHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel† Qty.	Pricing	AVX Part No.
						0402 Series						
.82	0.1	40	20	0.06	500	478-4191-1-ND	5.10	42.00	165.00	5,000	174.00/M	L0402R82BHNTR
1.0	0.1	30	20	0.15	500	478-4192-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R0BHNTR
1.2	0.1	30	20	0.20	400	478-4193-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R2BHNTR
1.5	0.1	25	18	0.20	400	478-4194-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R5BHNTR
1.8	0.1	20	16	0.20	400	478-4195-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R8BHNTR
2.2	0.1	20	15	0.20	400	478-4196-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04022R2BHNTR
2.7	0.1	20	9.5	0.25	250	478-4197-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04022R7BHNTR
3.3	0.1	20	8.5	0.40	250	478-4198-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04023R3BHNTR
3.9	0.1	20	8	0.45	250	478-4199-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04023R9BHNTR
4.7	0.1	20	7.5	0.45	250	478-4200-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04024R7BHNTR
5.6	0.1	20	7	0.65	200	478-4201-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04025R6BHNTR
6.8	0.1	15	6.5	0.90	200	478-4202-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04026R8BHNTR
						0603 Series						
1.2	0.2	49	10	0.04	1,000	478-4324-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R2CGSTR
1.5	0.2	26	10	0.06	1,000	478-4325-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R5CGSTR
1.8	0.2	20	10	0.07	1,000	478-4326-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R8CGSTR
2.2	0.2	20	10	0.08	1,000	478-4328-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06032R2CGSTR
2.7	0.2	21	9	0.08	750	478-4329-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06032R7CGSTR
3.3	0.2	24	8.4	0.08	750	478-4330-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06033R3CGSTR
3.9	0.2	25	6.5	0.12	500	478-4331-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06033R9CGSTR
4.7	0.2	23	5.5	0.15	500	478-4332-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06034R7CGSTR
5.6	0.2	26	5	0.25	300	478-4333-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06035R6CGSTR
6.8	0.2	23	4.5	0.30	300	478-4334-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06036R8CGSTR
8.2	0.2	23	3.8	0.35	300	478-4335-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06038R2CGSTR
10	2%	28	3.5	0.45	300	478-4336-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603100GGSTR
12	2%	28	3	0.50	300	478-4337-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603120GGSTR
15	2%	28	2.5	0.60	300	478-4338-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603150GGSTR

† For Tape and Reel part number, change 1-ND to 2-ND.

478-2948-ND ***ACCU-L 0402KITL1 Inductor Kit*** 20 each of 12 values (0402 Series)........ **$206.25**
478-4323-ND ***ACCU-L TYPE 1600 LF Inductor Kit*** 20 each of 14 values (0603 Series)........ **$221.93**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Inductors — MLK, MLF, GLC, GLF, MLG and MLZ Series

MLK Series: Supports operating frequency bands of up to 12GHz with nominal inductance values from 1 ~ 100nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. Because the part is non-polarized, it can be used in bulk cassette loaders. **Operating Temperature:** -25°C ~ 85°C **MLF Series - Magnetic Shielded Inductor:** TDK's MLF multi-layer chip inductor combines high performance with the most compact design available today. MLF inductor's multi-layer technology utilizes ferrite paste and electric conductor paste layered in a monolithic structure. Sintering of ferrite and electric conductors forms a perfect closed magnetic circuit and a magnetic shield. Magnetic shielding is ideally suited for high density circuit application in disk drives, personal computers, measuring equipment and telephone equipment. **Operating Temperature:** -25°C ~ 85°C **GLF Series: Features:** • Delivers low Rdc with high Idc • Construction supports bulk mounting **Applications:** Perfect coil for step-up circuits, step-down circuits and decoupling circuits for each set power supply circuit • Portable audio visual devices • Mobile communication devices • Information devices *(GLF1608)* • Amusement devices *(GLF1608)* **Operating Temperature:** -40ºC ~ 105ºC **GLCR and GLFR Series: Features:** • Delivers low Rdc with high Idc • Able to withstand high temperature reflows (260°C during peak) used in lead free soldering **Applications:** • Portable audio visual devices • Mobile communication devices • Information devices **Operating Temperature:** -40°C ~ 105°C **MLG Series:** Supports operating frequency bands of up to 10GHz with nominal inductance values from 0.6 ~ 390nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. **Operating Temperature:** *(MLG1005S, MLG0603S and MLG0603Q)* -55ºC ~ 125ºC; *(MLG1608)* -25°C ~ 85°C **MLZ Series:** This is a multi-layered inductor primarily designed for choking power lines. With one of the best resistance performance in the industry, this product delivers a significantly lower DC resistance value compared to our previous products. This reduces the loss at the power supply and contributes to power conservation **Applications**: Choke coil to use for DVC, DSC, MD, power supply circuit such as various module **Operating Temperature:** -55°C ~ 125°C

Dimensions in mm

Fig. 1

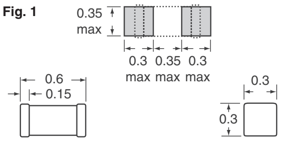

Fig. 2

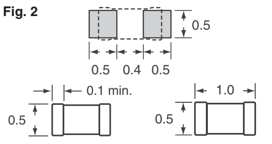

Fig. 3

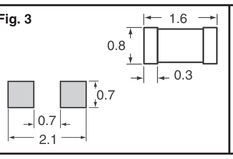

Fig. 4

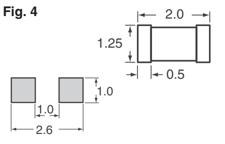

Fig. 5

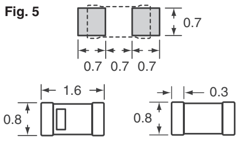

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 15,000	TDK Part No.
Fig. 1 — MLK0603 (0201)											
1.0	±0.3nH	100	0.20	300	12.0	445-1570-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N0S
1.2	±0.3nH	100	0.22	300	11.0	445-1571-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N2S
1.5	±0.3nH	100	0.24	300	10.0	445-1572-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N5S
1.8	±0.3nH	100	0.27	300	10.0	445-1573-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N8S
2.2	±0.3nH	100	0.30	300	9.0	445-1574-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N2S
2.7	±0.3nH	100	0.35	300	8.5	445-1575-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N7S
3.3	±0.3nH	100	0.40	200	8.0	445-1576-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N3S
3.9	±0.3nH	100	0.45	200	8.0	445-1577-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N9S
4.7	±0.3nH	100	0.50	200	7.5	445-1578-1-ND	.18	1.47	11.76	51.00/M	MLK0603L4N7S
5.6	±0.3nH	100	0.60	200	6.5	445-1579-1-ND	.18	1.47	11.76	51.00/M	MLK0603L5N6S
6.8	±5%	100	0.65	200	6.0	445-1580-1-ND	.18	1.47	11.76	51.00/M	MLK0603L6N8J
8.2	±5%	100	0.70	200	6.0	445-1581-1-ND	.18	1.47	11.76	51.00/M	MLK0603L8N2J
10	±5%	100	0.80	200	5.5	445-1582-1-ND	.18	1.47	11.76	51.00/M	MLK0603L10NJ
12	±5%	100	1.00	150	5.0	445-1583-1-ND	.18	1.47	11.76	51.00/M	MLK0603L12NJ
15	±5%	100	1.10	150	4.5	445-1584-1-ND	.18	1.47	11.76	51.00/M	MLK0603L15NJ
18	±5%	100	1.30	100	4.0	445-1585-1-ND	.18	1.47	11.76	51.00/M	MLK0603L18NJ
22	±5%	100	1.60	100	3.5	445-1586-1-ND	.18	1.47	11.76	51.00/M	MLK0603L22NJ

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 10,000	TDK Part No.
Fig. 2 — MLK1005 (0402)											
1.2	±0.3nH	100	0.12	500	11	445-1456-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N2S
1.5	±0.3nH	100	0.15	500	9.5	445-1457-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N5S
1.8	±0.3nH	100	0.17	500	8.5	445-1458-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N8S
2.2	±0.3nH	100	0.18	500	8	445-1459-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N2S
2.7	±0.3nH	100	0.20	500	7.5	445-1460-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N7S
3.3	±0.3nH	100	0.22	400	7	445-1461-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N3S
3.9	±0.3nH	100	0.25	400	6.5	445-1462-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N9S
4.7	±0.3nH	100	0.28	400	6	445-1463-1-ND	.15	1.22	9.72	42.53/M	MLK1005S4N7S
5.6	±0.5nH	100	0.30	400	5.7	445-1464-1-ND	.15	1.22	9.72	42.53/M	MLK1005S5N6D
6.8	±0.5nH	100	0.35	400	5.5	445-1465-1-ND	.15	1.22	9.72	42.53/M	MLK1005S6N8D
8.2	±0.5nH	100	0.38	350	5	445-1466-1-ND	.15	1.22	9.72	42.53/M	MLK1005S8N2D
10	±5%	100	0.42	350	4.7	445-1467-1-ND	.15	1.22	9.72	42.53/M	MLK1005S10NJ
12	±5%	100	0.47	350	4.3	445-1468-1-ND	.15	1.22	9.72	42.53/M	MLK1005S12NJ
15	±5%	100	0.50	300	4	445-1469-1-ND	.15	1.22	9.72	42.53/M	MLK1005S15NJ
18	±5%	100	0.60	250	3.7	445-1470-1-ND	.15	1.22	9.72	42.53/M	MLK1005S18NJ
22	±5%	100	0.70	200	3.5	445-1471-1-ND	.15	1.22	9.72	42.53/M	MLK1005S22NJ
27	±5%	100	0.80	200	3	445-1472-1-ND	.15	1.22	9.72	42.53/M	MLK1005S27NJ
33	±5%	100	0.90	200	2.5	445-1473-1-ND	.15	1.22	9.72	42.53/M	MLK1005S33NJ
47	±5%	100	1.20	200	1.8	445-1475-1-ND	.15	1.22	9.72	42.53/M	MLK1005S47NJ
56	±5%	100	1.30	200	1.5	445-1476-1-ND	.15	1.22	9.72	42.53/M	MLK1005S56NJ
68	±5%	100	1.50	150	1.4	445-1477-1-ND	.15	1.22	9.72	42.53/M	MLK1005S68NJ
82	±5%	100	1.80	150	1.3	445-1478-1-ND	.15	1.22	9.72	42.53/M	MLK1005S82NJ
100	±5%	100	2.20	100	1.1	445-1479-1-ND	.15	1.22	9.72	42.53/M	MLK1005SR10J
Fig. 2 — MLF1005 (0402)											
0.1	±10%	25	0.60	25	0.45	445-3502-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR10KT
0.12	±10%	25	0.70	25	0.40	445-3503-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR12KT
0.15	±10%	25	0.80	25	0.35	445-3504-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR15KT
0.18	±10%	25	0.90	25	0.32	445-3505-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR18KT
0.22	±10%	25	1.10	25	0.29	445-3506-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR22KT
0.27	±10%	25	1.30	25	0.26	445-3507-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR27KT
0.33	±10%	25	1.50	25	0.23	445-3508-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR33KT
0.39	±10%	10	0.60	10	0.21	445-3509-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR39KT
0.47	±10%	10	0.65	10	0.19	445-3510-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR47KT
0.56	±10%	10	0.70	10	0.17	445-3511-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR56KT
0.68	±10%	10	0.80	10	0.15	445-3512-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR68KT
0.82	±10%	10	0.90	10	0.13	445-3513-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR82KT
1.0	±10%	10	1.00	10	0.12	445-3514-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R0KT
1.2	±10%	10	1.10	10	0.11	445-3515-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R2KT
1.5	±10%	10	1.30	10	0.10	445-3516-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R5KT
1.8	±10%	10	1.55	10	0.09	445-3517-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R8KT
2.2	±10%	10	1.80	10	0.08	445-3518-1-ND	.60	5.00	40.00	175.00/M	MLF1005A2R2KT

Inductance (µH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 4,000	TDK Part No.
Fig. 3 — MLF1608 (0603)											
0.047	±20%	50	0.20	200	600	445-1000-1-ND	.41	3.40	27.20	119.00/M	MLF1608D47NM
0.068	±20%	50	0.30	200	550	445-1001-1-ND	.41	3.40	27.20	119.00/M	MLF1608D68NM
0.082	±20%	50	0.30	200	500	445-1002-1-ND	.41	3.40	27.20	119.00/M	MLF1608D82NM
0.1	±10%	25	0.35	200	450	445-1003-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR10K
0.12	±10%	25	0.40	200	400	445-1004-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR12K
0.15	±10%	25	0.45	200	350	445-1005-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR15K
0.18	±10%	25	0.50	150	320	445-1006-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR18K
0.22	±10%	25	0.55	150	290	445-1007-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR22K
0.27	±10%	25	0.60	150	260	445-1008-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR27K
0.33	±10%	25	0.75	100	230	445-1009-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR33K
0.39	±10%	25	0.85	100	210	445-1010-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR39K
0.47	±10%	25	0.95	100	190	445-1011-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR47K
0.56	±10%	25	1.05	100	170	445-1012-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR56K
0.68	±10%	25	1.25	70	150	445-1013-1-ND	.41	3.45	27.56	120.58/M	MLF1608DR68K
1.2	±10%	10	0.65	50	110	445-1014-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R2K
1.5	±10%	10	0.70	50	100	445-1015-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R5K
1.8	±10%	10	0.85	50	90	445-1016-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R8K
2.2	±10%	10	1.00	30	80	445-1017-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R2K
2.7	±10%	10	1.15	30	70	445-1018-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R7K
3.3	±10%	10	1.30	30	65	445-1019-1-ND	.41	3.40	27.20	119.00/M	MLF1608A3R3K
4.7	±10%	10	1.60	30	55	445-1021-1-ND	.41	3.40	27.20	119.00/M	MLF1608A4R7K
5.6	±10%	4	1.10	15	45	445-1022-1-ND	.41	3.40	27.20	119.00/M	MLF1608E5R6K
6.8	±10%	4	1.30	15	40	445-1023-1-ND	.41	3.40	27.20	119.00/M	MLF1608E6R8K
8.2	±10%	4	1.50	10	35	445-1024-1-ND	.41	3.40	27.20	119.00/M	MLF1608E8R2K
10	±10%	2	1.70	10	30	445-1025-1-ND	.41	3.40	27.20	119.00/M	MLF1608E100K
15	±10%	1	1.50	2	22	445-1027-1-ND	.41	3.40	27.20	119.00/M	MLF1608C150K
18	±10%	1	1.60	2	20	445-1028-1-ND	.41	3.40	27.20	119.00/M	MLF1608C180K
22	±10%	1	1.70	2	18	445-1029-1-ND	.41	3.40	27.20	119.00/M	MLF1608C220K
27	±10%	1	1.80	2	15	445-1030-1-ND	.41	3.40	27.20	119.00/M	MLF1608C270K
33	±10%	1	2.20	2	10	445-1031-1-ND	.41	3.40	27.20	119.00/M	MLF1608C330K

Inductance (µH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 2,000	TDK Part No.
Fig. 4 — MLF2012 (0805)											
0.047	±20%	50	0.10	300	550	445-1032-1-ND	.41	3.40	27.20	119.00/M	MLF2012D47NM
0.082	±20%	50	0.15	300	450	445-1034-1-ND	.41	3.40	27.20	119.00/M	MLF2012D82NM
0.1	±10%	25	0.15	300	400	445-1035-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR10K
0.12	±10%	25	0.20	300	360	445-1036-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR12K
0.15	±10%	25	0.20	300	320	445-1037-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR15K
0.22	±10%	25	0.30	250	250	445-1039-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR22K
0.27	±10%	25	0.35	250	220	445-1040-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR27K
0.33	±10%	25	0.40	250	200	445-1041-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR33K
0.47	±10%	25	0.50	200	160	445-1043-1-ND	.39	3.28	26.24	114.80/M	MLF2012DR47K
0.56	±10%	25	0.55	150	150	445-1044-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR56K
0.68	±10%	25	0.60	150	140	445-1045-1-ND	.39	3.28	26.24	114.80/M	MLF2012DR68K
0.82	±10%	25	0.65	150	130	445-1046-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR82K
1	±10%	10	0.30	80	120	445-1047-1-ND	.39	3.28	26.24	114.80/M	MLF2012A1R0K
1.2	±10%	10	0.35	80	110	445-1048-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R2K
1.8	±10%	10	0.45	80	90	445-1050-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R8K
2.2	±10%	10	0.50	50	80	445-1051-1-ND	.41	3.40	27.20	119.00/M	MLF2012A2R2K
2.7	±10%	10	0.55	50	70	445-1052-1-ND	.41	3.40	27.20	119.00/M	MLF2012A2R7K
3.3	±10%	10	0.60	50	60	445-1053-1-ND	.41	3.40	27.20	119.00/M	MLF2012A3R3K
4.7	±10%	10	0.70	30	50	445-1055-1-ND	.39	3.28	26.24	114.80/M	MLF2012A4R7K
5.6	±10%	4	0.60	15	45	445-1056-1-ND	.41	3.40	27.20	119.00/M	MLF2012E5R6K
6.8	±10%	4	0.65	15	40	445-1057-1-ND	.41	3.40	27.20	119.00/M	MLF2012E6R8K
10	±10%	2	0.80	15	30	445-1059-1-ND	.39	3.28	26.24	114.80/M	MLF2012E100K
12	±10%	2	0.90	15	25	445-1060-1-ND	.41	3.40	27.20	119.00/M	MLF2012E120K
15	±10%	1	0.70	5	22	445-1061-1-ND	.41	3.40	27.20	119.00/M	MLF2012C150K
18	±10%	1	0.80	5	20	445-1062-1-ND	.41	3.40	27.20	119.00/M	MLF2012C180K
22	±10%	1	0.90	5	18	445-1063-1-ND	.41	3.40	27.20	119.00/M	MLF2012C220K
27	±10%	1	1.00	5	17	445-1064-1-ND	.41	3.40	27.20	119.00/M	MLF2012C270K
33	±10%	0.4	1.10	5	15	445-1065-1-ND	.41	3.40	27.20	119.00/M	MLF2012C330K
39	±10%	2	2.40	4	13	445-1066-1-ND	.41	3.40	27.20	119.00/M	MLF2012K390K
47	±10%	2	2.70	4	11	445-1067-1-ND	.39	3.28	26.24	—	MLF2012K470K
68	±10%	1	2.90	2	9	445-1069-1-ND	.41	3.40	27.20	119.00/M	MLF2012C680K
100	±10%	1	3.10	2	7	445-1071-1-ND	.41	3.40	27.20	119.00/M	MLF2012C101K

Inductance (µH)	Inductance Tolerance	DC Res. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Tape and Reel† Pricing	TDK Part No.
Fig. 5 — GLF1608 (0603)										
1.0	±20%	0.17	125	445-3151-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T1R0M
2.2	±20%	0.33	75	445-3152-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T2R2M
4.7	±20%	0.55	70	445-3153-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T4R7M
10.0	±20%	0.70	50	445-3154-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T100M
22.0	±20%	3.00	35	445-3155-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T220M
Fig. 5 — GLFR1608 (0603)										
1.0	±20%	0.08	230	445-3605-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T1R0M-LR
2.2	±20%	0.17	160	445-3606-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T2R2M-LR
4.7	±20%	0.24	110	445-3607-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T4R7M-LR
10	±20%	0.36	80	445-3608-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T100M-LR
22	±20%	1	50	445-3609-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T220M-LR
47	±20%	2.3	35	445-3610-1-ND	.30	2.50	20.00	4,000	88.00/M	GLFR1608T470M-LR
Fig. 4 — GLCR2012 (0805)										
1.0	±20%	0.09	490	445-3624-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T1R0M-HC
2.2	±20%	0.2	350	445-3625-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T2R2M-HC
4.7	±20%	0.29	225	445-3626-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T4R7M-HC

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

TDK Inductors — MLK, MLF, GLC, GLF, MLG and MLZ Series *(Cont.)*

Inductance (µH)	Inductance Tolerance	DC Res. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		TDK Part No.
					1	10	100	Qty.	Pricing	
10	±20%	0.5	155	445-3627-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T100M-HC
22	±20%	1	105	445-3628-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T220M-HC
47	±20%	2.4	70	445-3629-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T470M-HC
100	±20%	4.5	40	445-3630-1-ND	.36	3.00	24.00	2,000	105.00/M	GLCR2012T101M-HC
Fig. 4 — GLF2012 (0805)										
22	±10%	1.00	100	445-3160-1-ND	.22	1.92	16.80	—	—	GLF2012T220K
Fig. 4 — GLF201208 (0805)										
1.0	±20%	0.15	340	445-3618-1-ND	.39	3.25	26.00	—	—	GLF201208T1R0M
2.2	±20%	0.36	220	445-3619-1-ND	.39	3.25	26.00	—	—	GLF201208T2R2M
22	±20%	2.6	80	445-3622-1-ND	.39	3.25	26.00	—	—	GLF201208T220M
47	±20%	5.3	60	445-3623-1-ND	.39	3.25	26.00	—	—	GLF201208T470M
Fig. 4 — GLFR2012 (0805)										
1.0	±20%	0.058	300	445-3611-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T1R0M-LR
2.2	±20%	0.088	240	445-3612-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T2R2M-LR
4.7	±20%	0.2	140	445-3613-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T4R7M-LR
10	±20%	0.3	100	445-3614-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T100M-LR
22	±20%	0.7	75	445-3615-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T220M-LR
47	±20%	1.38	50	445-3616-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T470M-LR
100	±20%	3	30	445-3617-1-ND	.30	2.50	20.00	2,000	88.00/M	GLFR2012T101M-LR

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel† Pricing 4,000	TDK Part No.
							1	10	100		
Fig. 5 — MLG1608 (0603)											
1.0	±0.3nH	100	0.10	600	10.0	445-1480-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N0S
1.2	±0.3nH	100	0.10	600	10.0	445-1481-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N2S
1.5	±0.3nH	100	0.10	600	10.0	445-1482-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N5S
1.8	±0.3nH	100	0.10	600	10.0	445-1483-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N8S
2.2	±0.3nH	100	0.10	600	8.0	445-1484-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N2S
2.7	±0.3nH	100	0.12	600	7.0	445-1485-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N7S
3.3	±0.3nH	100	0.12	600	6.5	445-1486-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N3S
3.9	±0.3nH	100	0.14	600	6.0	445-1487-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N9S
4.7	±0.3nH	100	0.15	600	5.0	445-1488-1-ND	.16	1.34	10.68	46.73/M	MLG1608B4N7S
5.6	±0.5nH	100	0.16	600	5.0	445-1489-1-ND	.16	1.34	10.68	46.73/M	MLG1608B5N6D
6.8	±0.5nH	100	0.18	600	4.5	445-1490-1-ND	.16	1.34	10.68	46.73/M	MLG1608B6N8D
8.2	±0.5nH	100	0.20	600	4.5	445-1491-1-ND	.16	1.34	10.68	46.73/M	MLG1608B8N2D
10	±5%	100	0.20	600	3.5	445-1492-1-ND	.16	1.34	10.68	46.73/M	MLG1608B10NJ
12	±5%	100	0.25	600	3.0	445-1493-1-ND	.16	1.34	10.68	46.73/M	MLG1608B12NJ
15	±5%	100	0.28	600	2.8	445-1494-1-ND	.16	1.34	10.68	46.73/M	MLG1608B15NJ
18	±5%	100	0.32	600	2.6	445-1495-1-ND	.16	1.34	10.68	46.73/M	MLG1608B18NJ
22	±5%	100	0.35	500	2.3	445-1496-1-ND	.16	1.34	10.68	46.73/M	MLG1608B22NJ
27	±5%	100	0.40	500	2.0	445-1497-1-ND	.16	1.34	10.68	46.73/M	MLG1608B27NJ
33	±5%	100	0.50	500	1.8	445-1498-1-ND	.16	1.34	10.68	46.73/M	MLG1608B33NJ
39	±5%	100	0.55	400	1.6	445-1499-1-ND	.16	1.34	10.68	46.73/M	MLG1608B39NJ
47	±5%	100	0.60	400	1.4	445-1500-1-ND	.16	1.34	10.68	46.73/M	MLG1608B47NJ
56	±5%	100	0.70	400	1.2	445-1501-1-ND	.16	1.34	10.68	46.73/M	MLG1608B56NJ
68	±5%	100	0.75	300	1.1	445-1502-1-ND	.16	1.34	10.68	46.73/M	MLG1608B68NJ
82	±5%	100	0.80	300	1.0	445-1503-1-ND	.16	1.34	10.68	46.73/M	MLG1608B82NJ
100	±5%	100	1.00	300	0.80	445-1504-1-ND	.16	1.34	10.68	46.73/M	MLG1608BR10J

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel† Pricing 10,000	TDK Part No.
							1	10	100		
Fig. 2 — MLG1005 (0402)											
0.6	±0.2nH	100	0.1	1000	10	445-3031-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N6C
0.7	±0.2nH	100	0.1	1000	10	445-3032-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N7C
0.8	±0.2nH	100	0.1	1000	10	445-3033-1-ND	.11	1.00	8.75	—	MLG1005S0N8C
0.9	±0.2nH	100	0.1	1000	10	445-3034-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N9C
1.0	±0.3nH	100	0.1	1000	10	445-3035-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N0S
1.2	±0.3nH	100	0.1	1000	10	445-3037-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N2S
1.3	±0.3nH	100	0.1	1000	8	445-3038-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N3S
1.5	±0.3nH	100	0.1	1000	8	445-3039-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N5S
1.6	±0.3nH	100	0.15	1000	7	445-3040-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N6S
1.8	±0.3nH	100	0.15	900	8	445-3041-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N8S
2.0	±0.3nH	100	0.15	900	7	445-3042-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N0S
2.2	±0.3nH	100	0.15	900	6	445-3043-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N2S
2.4	±0.3nH	100	0.15	800	6	445-3044-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N4S
2.7	±0.3nH	100	0.15	800	5	445-3045-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N7S
3.0	±0.3nH	100	0.2	800	5	445-3046-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N0S
3.3	±0.3nH	100	0.2	800	5	445-3047-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N3S
3.6	±0.3nH	100	0.2	700	5	445-3048-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N6S
3.9	±0.3nH	100	0.2	700	5	445-3049-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N9S
4.3	±0.3nH	100	0.2	700	4	445-3050-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N3S
4.7	±0.3nH	100	0.25	700	4	445-3051-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N7S
5.1	±0.3nH	100	0.25	600	3.5	445-3052-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N1S
5.6	±0.3nH	100	0.25	600	3.5	445-3053-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N6S
6.2	±0.3nH	100	0.3	600	3	445-3054-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N2S
6.8	±5%	100	0.3	600	3	445-3055-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N8J
7.5	±5%	100	0.3	500	3	445-3056-1-ND	.11	1.00	8.75	38.00/M	MLG1005S7N5J
8.2	±5%	100	0.35	500	3	445-3057-1-ND	.11	1.00	8.75	38.00/M	MLG1005S8N2J
9.1	±5%	100	0.35	500	2.5	445-3058-1-ND	.11	1.00	8.75	38.00/M	MLG1005S9N1J
10	±5%	100	0.4	500	2.5	445-3059-1-ND	.11	1.00	8.75	38.00/M	MLG1005S10NJ
12	±5%	100	0.45	400	2	445-3060-1-ND	.11	1.00	8.75	38.00/M	MLG1005S12NJ
15	±5%	100	0.6	400	1.8	445-3061-1-ND	.11	1.00	8.75	38.00/M	MLG1005S15NJ
18	±5%	100	0.7	350	1.5	445-3062-1-ND	.11	1.00	8.75	38.00/M	MLG1005S18NJ
22	±5%	100	0.8	350	1.3	445-3063-1-ND	.11	1.00	8.75	38.00/M	MLG1005S22NJ
27	±5%	100	0.9	300	1.2	445-3064-1-ND	.11	1.00	8.75	38.00/M	MLG1005S27NJ
33	±5%	100	1	300	1	445-3065-1-ND	.11	1.00	8.75	38.00/M	MLG1005S33NJ
39	±5%	100	1.2	250	1	445-3066-1-ND	.11	1.00	8.75	38.00/M	MLG1005S39NJ
47	±5%	100	1.4	250	0.7	445-3067-1-ND	.11	1.00	8.75	38.00/M	MLG1005S47NJ
56	±5%	100	1.4	200	0.7	445-3068-1-ND	.11	1.00	8.75	38.00/M	MLG1005S56NJ

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel† Pricing 10,000	TDK Part No.
							1	10	100		
68	±5%	100	1.5	200	0.6	445-3069-1-ND	.11	1.00	8.75	38.00/M	MLG1005S68NJ
82	±5%	100	1.6	200	0.5	445-3070-1-ND	.11	1.00	8.75	38.00/M	MLG1005S82NJ
100	±5%	100	2	200	0.5	445-3071-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR10J
120	±5%	100	2.2	150	0.5	445-3072-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR12J
150	±5%	100	3.5	150	0.45	445-3073-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR15J
180	±5%	100	3.8	150	0.4	445-3074-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR18J
220	±5%	100	4.2	100	0.35	445-3075-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR22J
270	±5%	100	4.8	100	0.3	445-3076-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR27J
330	±5%	50	7	50	0.28	445-3077-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR33J
390	±5%	50	8	50	0.25	445-3078-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR39J

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel† Pricing 15,000	TDK Part No.
							1	10	100		
Fig. 1 — MLG0603Q (0201)											
0.6	±0.2nH	100	0.1	300	10	445-3120-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N6C
0.8	±0.2nH	100	0.1	300	10	445-3122-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N8C
1.0	±0.3nH	100	0.2	300	10	445-3124-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N0S
1.3	±0.3nH	100	0.2	300	9	445-3127-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N3S
1.5	±0.3nH	100	0.3	300	9	445-3128-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N5S
1.8	±0.3nH	100	0.3	300	8.5	445-3130-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N8S
2.0	±0.3nH	100	0.3	300	7.5	445-3131-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q2N0S
3.0	±0.3nH	100	0.4	300	6	445-3135-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q3N0S
3.6	±0.3nH	100	0.5	300	5	445-3137-1-ND	.31	2.72	23.80	—	MLG0603Q3N6S
3.9	±0.3nH	100	0.5	300	5	445-3138-1-ND	.31	2.72	23.80	—	MLG0603Q3N9S
4.7	±0.3nH	100	0.6	300	4.5	445-3140-1-ND	.31	2.72	23.80	—	MLG0603Q4N7S
5.1	±0.3nH	100	0.6	200	4.2	445-3141-1-ND	.31	2.72	23.80	—	MLG0603Q5N1S
6.8	±5%	100	0.7	200	3.5	445-3144-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q6N8J
10	±5%	100	0.9	200	2.8	445-3148-1-ND	.31	2.72	23.80	—	MLG0603Q10NJ
12	±5%	100	1.1	150	2.4	445-3149-1-ND	.31	2.72	23.80	—	MLG0603Q12NJ
15	±5%	100	1.2	150	2.2	445-3150-1-ND	.31	2.72	23.80	—	MLG0603Q15NJ
Fig. 1 — MLG0603S (0201)											
0.6	±0.2nH	100	0.1	300	10	445-3079-1-ND	.22	1.96	17.15	—	MLG0603S0N6C
0.7	±0.2nH	100	0.1	300	10	445-3080-1-ND	.22	1.96	17.15	—	MLG0603S0N7C
0.8	±0.2nH	100	0.1	300	10	445-3081-1-ND	.22	1.96	17.15	—	MLG0603S0N8C
1.0	±0.3nH	100	0.2	300	10	445-3083-1-ND	.22	1.96	17.15	—	MLG0603S1N0S
1.1	±0.3nH	100	0.2	300	10	445-3084-1-ND	.22	1.96	17.15	—	MLG0603S1N1S
1.3	±0.3nH	100	0.2	300	9	445-3086-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N3S
1.5	±0.3nH	100	0.3	300	9	445-3087-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N5S
1.6	±0.3nH	100	0.3	300	9	445-3088-1-ND	.22	1.96	17.15	—	MLG0603S1N6S
1.8	±0.3nH	100	0.3	300	8.5	445-3089-1-ND	.22	1.96	17.15	—	MLG0603S1N8S
2.2	±0.3nH	100	0.4	300	7.5	445-3091-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N2S
2.4	±0.3nH	100	0.4	300	7	445-3092-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N4S
3.0	±0.3nH	100	0.4	300	6	445-3094-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N0S
3.3	±0.3nH	100	0.5	300	5.5	445-3095-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N3S
3.9	±0.3nH	100	0.5	300	5	445-3097-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N9S
4.3	±0.3nH	100	0.6	300	4.5	445-3098-1-ND	.22	1.96	17.15	—	MLG0603S4N3S
4.7	±0.3nH	100	0.6	300	4.5	445-3099-1-ND	.22	1.96	17.15	—	MLG0603S4N7S
5.1	±0.3nH	100	0.6	200	4.2	445-3100-1-ND	.22	1.96	17.15	—	MLG0603S5N1S
5.6	±0.3nH	100	0.6	200	4.2	445-3101-1-ND	.22	1.96	17.15	75.00/M	MLG0603S5N6S
6.2	±0.3nH	100	0.7	200	3.5	445-3102-1-ND	.22	1.96	17.15	75.00/M	MLG0603S6N2S
6.8	±5%	100	0.7	200	3.5	445-3103-1-ND	.22	1.96	17.15	—	MLG0603S6N8J
7.5	±5%	100	0.8	200	3.5	445-3104-1-ND	.22	1.96	17.15	—	MLG0603S7N5J
8.2	±5%	100	0.8	200	3.2	445-3105-1-ND	.22	1.96	17.15	75.00/M	MLG0603S8N2J
9.1	±5%	100	0.9	200	3	445-3106-1-ND	.22	1.96	17.15	—	MLG0603S9N1J
12	±5%	100	1.1	150	2.4	445-3108-1-ND	.22	1.96	17.15	—	MLG0603S12NJ
15	±5%	100	1.2	150	2.2	445-3109-1-ND	.22	1.96	17.15	75.00/M	MLG0603S15NJ
18	±5%	100	1.4	150	2	445-3110-1-ND	.22	1.96	17.15	75.00/M	MLG0603S18NJ
22	±5%	100	1.7	150	1.7	445-3111-1-ND	.22	1.96	17.15	75.00/M	MLG0603S22NJ
27	±5%	100	1.7	100	1.5	445-3112-1-ND	.22	1.96	17.15	—	MLG0603S27NJ
33	±5%	100	2	100	1.3	445-3113-1-ND	.22	1.96	17.15	75.00/M	MLG0603S33NJ
39	±5%	100	2.2	50	1.1	445-3114-1-ND	.22	1.96	17.15	—	MLG0603S39NJ
47	±5%	100	2.4	50	0.9	445-3115-1-ND	.22	1.96	17.15	75.00/M	MLG0603S47NJ
56	±5%	100	4	50	0.6	445-3116-1-ND	.22	1.96	17.15	—	MLG0603S56NJ
68	±5%	100	4	50	0.5	445-3117-1-ND	.22	1.96	17.15	75.00/M	MLG0603S68NJ
82	±5%	100	4	50	0.5	445-3118-1-ND	.22	1.96	17.15	—	MLG0603S82NJ
100	±5%	100	5	50	0.5	445-3119-1-ND	.22	1.96	17.15	75.00/M	MLG0603SR10J

Inductance (µH)	Inductance Tolerance	Test Freq. (MHz)	DC. Res. (Ω)	Rated Current (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		TDK Part No.
							1	10	100	Qty.	Pricing	
Fig. 3 — MLZ1608 (0603)												
1.0	±20%	10	0.17	150	120	445-3163-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ1608A1R0MT
2.2	±20%	10	0.30	100	80	445-3164-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ1608A2R2MT
4.7	±20%	2	0.50	60	50	445-3165-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ1608E4R7MT
10.0	±20%	2	0.90	40	30	445-3166-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ1608E100MT
Fig. 4 — MLZ2012 (0805)												
1.0	±20%	10	0.12	220	160	445-3167-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012A1R0MT
2.2	±20%	10	0.20	160	100	445-3168-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012A2R2MT
4.7	±20%	2	0.30	80	70	445-3169-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012E4R7MT
10.0	±20%	2	0.40	60	30	445-3170-1-ND	.23	2.00	17.50	2,000	88.00/M	MLZ2012E100MT

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Inductors — NLFC, NLV, NLHV, NLCV, FLF, NLFV, NLC, NL and CPL Series

Digi-Reel® RoHS COMPLIANT

NLFC Series: This product has good heat durability that withstands lead-free compatible reflow soldering conditions. Lead-free materials are used for the plating on the terminal. The NLFC series features magnetic shielding and is recommended for power supply line applications. DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLV Series: This product supports lead-free solder reflow condition. Lead-free materials are used to terminal plating. This product uses metal terminal, therefore it is high connection reliability. They are wire wound **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLCV Series: Lead-free materials are used to terminal plating in this product **Applications:** • Universal inductance circuit use • AV components • Car electronics • IT equipment This series is a large current type: 1.0 ~ 33 μH (NLCV32: 1.0 ~ 330 μH) DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

FLF Series: **Features:** • It delivers low Rdc with high Idc. • It is able to withstand high temperature reflows (260°C during the peak) used in lead-free soldering. **Applications:** • Information electrical appliance equipment (HDD) • Information electrical appliance equipment (W_LAN) • Portable Phone Equipment (Digital Cellular) • Portable AV Equipment (DSC, DVC, AUDIO, etc.) **Operating Temperature:** -40°C ~ 125°C (-40°F ~ 257°F)

NLHV Series: High Q-Factor is provided in frequency band more than 30MHz **Applications:** • Power supply lines • Audio visual systems • Electronic equipment for vehicles • IT equipment **Operating Temperature:** -40°C ~ 105°C (-40°F ~ 221°F)

NLFV Series: Provides low DC resistance while using 252018 size winding construction **Applications:** • PCs • Hard disk drives • Other types of electronics DCR: ±20%
Operating Temperature: -20°C ~ 85°C (-4°F ~ 185°F) **-PFR Series Operating Temperature:** -40°C ~ 125°C

NLC4532 Series: Designed to be used on power lines and support rated current in the range from 90 ~ 150mA. NLC Series has only half as much DC resistance and twice as much DC current.
Operating Temperature: -40°C ~ 105°C (-40°F ~ 221°F)

NL Series: Features good heat durability that withstands lead-free compatible reflow soldering conditions. Uses metal terminals, which realize excellent connection reliability **Applications:** • Electronic equipment used in communication infrastructures including xDSL and mobile base stations • Electronic equipment used in onboard automobile equipment including car audio and ECU systems • Audio visual equipment including TVs and VCRs • Other electronic equipment including HDDs and ODDs

CPL Series: Delivers low Rdc with high Idc and able to withstand high temperature reflows (260°C during the peak) used in lead-free soldering **Applications:** • Portable audio visual devices (DSCs and DVCs) • Mobile communication devices (cellular phones) • Information devices (PCs).
Operating Temperature: -40°C ~ 105°C (-40°F ~ 221°F)

Dimensions in mm

Fig. 1 — NLFC2016 (EIA0805)

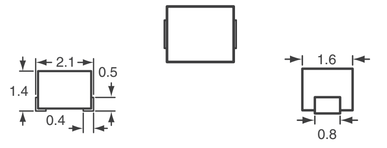

Fig. 2 — NLV32T, NLCV32T and FLF3215T (EIA1210)

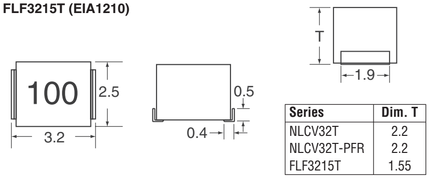

Series	Dim. T
NLCV32T	2.2
NLCV32T-PFR	2.2
FLF3215T	1.55

Fig. 3 — NLHV25T, NLV25T, NLCV25T and NLFV25 (EIA1008)

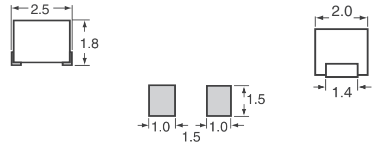

Fig. 4 — NLC4532 (EIA1812)

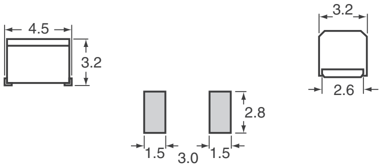

Fig. 5 — NL5650 and NLC5650 (EIA2220)

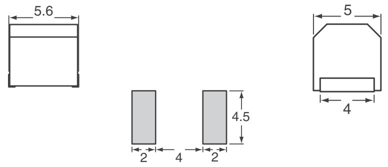

Fig. 6 — CPL2510T and CPL2512T

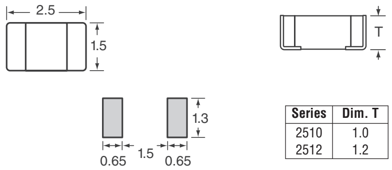

Series	Dim. T
2510	1.0
2512	1.2

Inductance (μH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 2,000	TDK Part No.
Fig. 1 — NLFC2016 Series											
2.2	±20%	7.96	0.23	240	80	445-1899-1-ND	.65	6.00	50.00	—	NLFC201614T-2R2M-PF
Fig. 2 — NLV32T Series											
0.010	±5%	100	0.13	450	2500	445-1505-1-ND	.29	2.42	19.32	84.53/M	NLV32T-010J-PF
0.047	±5%	100	0.30	450	1200	445-1509-1-ND	.29	2.42	19.32	84.53/M	NLV32T-047J-PF
0.15	±5%	25.2	0.25	450	450	445-1512-1-ND	.29	2.42	19.32	84.53/M	NLV32T-R15J-PF
0.22	±5%	25.2	0.32	450	350	445-1513-1-ND	.29	2.42	19.32	84.53/M	NLV32T-R22J-PF
0.33	±5%	25.2	0.40	450	300	445-1514-1-ND	.29	2.42	19.32	84.53/M	NLV32T-R33J-PF
0.47	±5%	25.2	0.50	450	220	445-1515-1-ND	.29	2.42	19.32	84.53/M	NLV32T-R47J-PF
0.68	±5%	25.2	0.60	450	160	445-1516-1-ND	.29	2.42	19.32	84.53/M	NLV32T-R68J-PF
1.0	±5%	7.96	0.70	400	120	445-1517-1-ND	.29	2.42	19.32	84.53/M	NLV32T-1R0J-PF
2.2	±5%	7.96	1.00	320	75	445-1519-1-ND	.29	2.42	19.32	84.53/M	NLV32T-2R2J-PF
3.3	±5%	7.96	1.20	260	60	445-1520-1-ND	.29	2.42	19.32	84.53/M	NLV32T-3R3J-PF
4.7	±5%	7.96	1.50	220	50	445-1521-1-ND	.29	2.42	19.32	84.53/M	NLV32T-4R7J-PF
10	±5%	2.52	2.10	150	30	445-1523-1-ND	.29	2.42	19.32	84.53/M	NLV32T-100J-PF
22	±5%	2.52	3.70	110	20	445-1525-1-ND	.29	2.42	19.32	84.53/M	NLV32T-220J-PF
47	±5%	2.52	7.00	60	15	445-1527-1-ND	.29	2.42	19.32	84.53/M	NLV32T-470J-PF
68	±5%	2.52	9.00	50	12	445-1528-1-ND	.29	2.42	19.32	84.53/M	NLV32T-680J-PF
100	±5%	0.796	10.00	40	10	445-1529-1-ND	.29	2.42	19.32	84.53/M	NLV32T-101J-PF
220	±5%	0.796	21.00	50	7	445-1531-1-ND	.29	2.42	19.32	84.53/M	NLV32T-221J-PF
330	±5%	0.796	34.00	40	5	445-1532-1-ND	.29	2.42	19.32	84.53/M	NLV32T-331J-PF
470	±5%	0.796	40.00	25	4	445-1533-1-ND	.29	2.42	19.32	84.53/M	NLV32T-471J-PF
Fig. 2 — NLCV32T Series											
1.0	±20%	7.96	0.06	1000	100	445-1534-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-1R0M-PF
1.5	±20%	7.96	0.11	830	80	445-1535-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-1R5M-PF
2.2	±20%	7.96	0.13	770	68	445-1536-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-2R2M-PF
3.3	±20%	7.96	0.16	690	54	445-1537-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-3R3M-PF
10	±10%	2.52	0.36	450	30	445-1538-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-100K-PF
15	±10%	2.52	0.56	370	26	445-1539-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-150K-PF
22	±10%	2.52	0.77	300	21	445-1540-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-220K-PF
33	±10%	2.52	1.10	240	17	445-1541-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-330K-PF
47	±10%	2.52	1.64	180	14	445-1542-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-470K-PF
100	±10%	0.796	3.70	120	10	445-1543-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-101K-PF
150	±10%	0.796	6.10	100	8	445-1544-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-151K-PF
220	±10%	0.796	8.40	80	7	445-1545-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-221K-PF
330	±10%	0.796	12.3	70	6	445-1546-1-ND	.29	2.42	19.32	84.53/M	NLCV32T-331K-PF
Fig. 2 — NLCV32T-PFR Series											
0.1	±20%	25.2	0.02	2850	800	445-3642-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R10M-PFR
0.15	±20%	25.2	0.024	2600	500	445-3643-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R15M-PFR
0.22	±20%	25.2	0.027	2400	400	445-3644-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R22M-PFR
0.33	±20%	25.2	0.035	2100	300	445-3645-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R33M-PFR
0.47	±20%	25.2	0.038	2000	250	445-3646-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R47M-PFR
0.68	±20%	25.2	0.045	1900	180	445-3647-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-R68M-PFR
1.0	±20%	7.96	0.055	1700	100	445-3648-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-1R0M-PFR
1.5	±20%	7.96	0.095	1400	80	445-3649-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-1R5M-PFR
2.2	±20%	7.96	0.115	1200	68	445-3650-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-2R2M-PFR
3.3	±20%	7.96	0.16	1000	54	445-3651-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-3R3M-PFR
4.7	±20%	7.96	0.2	900	46	445-3652-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-4R7M-PFR
6.8	±20%	7.96	0.29	700	38	445-3653-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-6R8M-PFR
10	±10%	2.52	0.42	600	30	445-3654-1-ND	.33	2.75	22.00	96.00/M	NLCV32T-100K-PFR
Fig. 2 — FLF3215T Series											
0.47	±30%	1	0.021	2800	200	445-4843-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-R47N
1.0	±30%	1	0.03	2000	100	445-4844-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-1R0N
2.2	±20%	1	0.05	1400	60	445-4845-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-2R2M
4.7	±20%	1	0.09	1000	40	445-4846-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-4R7M
10	±20%	1	0.20	700	25	445-4847-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-100M
22	±20%	1	0.45	450	14	445-4848-1-ND	.60	5.00	40.00	175.00/M	FLF3215T-220M
Fig. 3 — NLHV25T Series											
0.12	±5%	25.2	0.38	550	700	445-3631-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R12J-PF
0.15	±5%	25.2	0.42	500	550	445-3632-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R15J-PF
0.18	±5%	25.2	0.45	475	500	445-3633-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R18J-PF
0.22	±5%	25.2	0.5	450	450	445-3634-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R22J-PF
0.27	±5%	25.2	0.58	425	425	445-3635-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R27J-PF
0.33	±5%	25.2	0.68	400	400	445-3636-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R33J-PF
0.39	±5%	25.2	0.73	375	375	445-3637-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R39J-PF
0.47	±5%	25.2	0.83	350	350	445-3638-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R47J-PF
0.56	±5%	25.2	0.93	325	325	445-3639-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R56J-PF
0.68	±5%	25.2	0.98	300	180	445-3640-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R68J-PF
0.82	±5%	25.2	1.05	280	120	445-3641-1-ND	.30	2.50	20.00	88.00/M	NLHV25T-R82J-PF
Fig. 3 — NLV25T Series											
0.01	±5%	100	0.26	530	2150	445-1701-1-ND	.27	2.22	17.76	77.70/M	NLV25T-010J-PF

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

TDK Inductors — NLFC, NLV, NLHV, NLCV, FLF, NLFV, NLC, NL and CPL Series *(Cont.)*

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 2,000	TDK Part No.
0.022	±5%	100	0.37	420	1650	445-1705-1-ND	.27	2.22	17.76	77.70/M	NLV25T-022J-PF
0.027	±5%	100	0.4	410	1550	445-1706-1-ND	.27	2.22	17.76	77.70/M	NLV25T-027J-PF
0.033	±5%	100	0.42	400	1450	445-1707-1-ND	.27	2.22	17.76	77.70/M	NLV25T-033J-PF
0.039	±5%	100	0.45	380	1350	445-1708-1-ND	.27	2.22	17.76	77.70/M	NLV25T-039J-PF
0.047	±5%	100	0.5	360	1200	445-1709-1-ND	.27	2.22	17.76	77.70/M	NLV25T-047J-PF
0.068	±5%	100	0.65	320	1050	445-1711-1-ND	.27	2.22	17.76	77.70/M	NLV25T-068J-PF
0.082	±5%	100	0.75	300	900	445-1712-1-ND	.27	2.22	17.76	77.70/M	NLV25T-082J-PF
0.1	±5%	100	0.8	280	800	445-1713-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R10J-PF
0.12	±5%	25.2	0.3	550	700	445-1714-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R12J-PF
0.15	±5%	25.2	0.35	500	550	445-1715-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R15J-PF
0.18	±5%	25.2	0.4	460	500	445-1716-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R18J-PF
0.22	±5%	25.2	0.5	430	450	445-1717-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R22J-PF
0.27	±5%	25.2	0.55	420	425	445-1718-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R27J-PF
0.33	±5%	25.2	0.6	400	400	445-1719-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R33J-PF
0.39	±5%	25.2	0.65	375	375	445-1720-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R39J-PF
0.47	±5%	25.2	0.68	350	350	445-1721-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R47J-PF
0.56	±5%	25.2	0.75	325	325	445-1722-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R56J-PF
0.68	±5%	25.2	0.85	300	300	445-1723-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R68J-PF
0.82	±5%	25.2	1	260	260	445-1724-1-ND	.27	2.22	17.76	77.70/M	NLV25T-R82J-PF
1.0	±5%	7.96	1.1	245	245	445-1725-1-ND	.27	2.22	17.76	77.70/M	NLV25T-1R0J-PF
1.2	±5%	7.96	1.2	230	230	445-1726-1-ND	.27	2.22	17.76	77.70/M	NLV25T-1R2J-PF
1.5	±5%	7.96	1.3	220	182	445-1727-1-ND	.27	2.22	17.76	77.70/M	NLV25T-1R5J-PF
1.8	±5%	7.96	1.45	210	135	445-1728-1-ND	.27	2.22	17.76	77.70/M	NLV25T-1R8J-PF
2.2	±5%	7.96	1.55	200	105	445-1729-1-ND	.27	2.22	17.76	77.70/M	NLV25T-2R2J-PF
2.7	±5%	7.96	1.7	195	70	445-1730-1-ND	.27	2.22	17.76	77.70/M	NLV25T-2R7J-PF
3.3	±5%	7.96	1.9	185	55	445-1731-1-ND	.27	2.22	17.76	77.70/M	NLV25T-3R3J-PF
3.9	±5%	7.96	2.1	180	48	445-1732-1-ND	.27	2.22	17.76	77.70/M	NLV25T-3R9J-PF
4.7	±5%	7.96	2.3	175	43	445-1733-1-ND	.27	2.22	17.76	77.70/M	NLV25T-4R7J-PF
5.6	±5%	7.96	2.5	170	42	445-1734-1-ND	.27	2.22	17.76	77.70/M	NLV25T-5R6J-PF
6.8	±5%	7.96	2.7	165	39	445-1735-1-ND	.27	2.22	17.76	77.70/M	NLV25T-6R8J-PF
8.2	±5%	7.96	3.05	160	36	445-1736-1-ND	.27	2.22	17.76	77.70/M	NLV25T-8R2J-PF
10	±5%	2.52	3.5	155	33	445-1737-1-ND	.27	2.22	17.76	77.70/M	NLV25T-100J-PF
12	±5%	2.52	3.8	150	30	445-1738-1-ND	.27	2.22	17.76	77.70/M	NLV25T-120J-PF
15	±5%	2.52	4.4	140	26	445-1739-1-ND	.27	2.22	17.76	77.70/M	NLV25T-150J-PF
18	±5%	2.52	4.8	130	24	445-1740-1-ND	.27	2.22	17.76	77.70/M	NLV25T-180J-PF
22	±5%	2.52	5.5	125	22	445-1741-1-ND	.27	2.22	17.76	77.70/M	NLV25T-220J-PF
27	±5%	2.52	6.3	115	21	445-1742-1-ND	.27	2.22	17.76	77.70/M	NLV25T-270J-PF
33	±5%	2.52	7.1	110	20	445-1743-1-ND	.27	2.22	17.76	77.70/M	NLV25T-330J-PF
39	±5%	2.52	9.5	90	18	445-1744-1-ND	.27	2.22	17.76	77.70/M	NLV25T-390J-PF
47	±5%	2.52	11.1	80	17	445-1745-1-ND	.27	2.22	17.76	77.70/M	NLV25T-470J-PF
56	±5%	2.52	12.1	75	16	445-1746-1-ND	.27	2.22	17.76	77.70/M	NLV25T-560J-PF
68	±5%	2.52	16.6	70	15	445-1747-1-ND	.27	2.22	17.76	77.70/M	NLV25T-680J-PF
82	±5%	2.52	19	66	13	445-1748-1-ND	.27	2.22	17.76	77.70/M	NLV25T-820J-PF
100	±5%	0.796	21	60	12	445-1749-1-ND	.27	2.22	17.76	77.70/M	NLV25T-101J-PF
Fig. 3 — NLCV25T Series											
1.0	±20%	7.96	0.34	475	200	445-1752-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-1R0M-PF
1.5	±20%	7.96	0.42	435	165	445-1753-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-1R5M-PF
2.2	±20%	7.96	0.5	390	95	445-1754-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-2R2M-PF
3.3	±20%	7.96	0.65	340	55	445-1755-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-3R3M-PF
4.7	±20%	7.96	0.8	285	43	445-1756-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-4R7M-PF
6.8	±20%	7.96	1	275	39	445-1757-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-6R8M-PF
10	±10%	2.52	1.69	210	32	445-1750-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-100K-PF
15	±10%	2.52	2.2	175	21	445-1751-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-150K-PF
22	±10%	2.52	2.8	160	18	445-1758-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-220K-PF
33	±10%	2.52	4.2	120	16	445-1759-1-ND	.27	2.22	17.76	77.70/M	NLCV25T-330K-PF
Fig. 3 — NLFV25 Series											
1.0	±20%	7.96	0.07	455	100	445-1904-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-1R0M-PF
1.5	±20%	7.96	0.09	350	80	445-1905-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-1R5M-PF
2.2	±20%	7.96	0.1	315	70	445-1907-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-2R2M-PF
3.3	±20%	7.96	0.2	280	55	445-1909-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-3R3M-PF
4.7	±20%	7.96	0.24	210	45	445-1911-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-4R7M-PF
6.8	±20%	7.96	0.29	175	38	445-1913-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-6R8M-PF
10	±10%	2.52	0.36	155	32	445-1901-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-100K-PF
15	±10%	2.52	0.75	130	28	445-1903-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-150K-PF
22	±10%	2.52	1.0	105	16	445-1906-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-220K-PF
33	±10%	2.52	1.4	85	14	445-1908-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-330K-PF
47	±10%	2.52	1.7	60	11	445-1910-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-470K-PF
68	±10%	2.52	3.3	50	10	445-1912-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-680K-PF
100	±10%	0.796	4.0	40	8	445-1902-1-ND	.64	5.94	49.50	178.20/M	NLFV25T-101K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 500	TDK Part No.
Fig. 4 — NLC4532 Series											
1.0	±10%	7.96	0.11	1050	200	445-1944-1-ND	.59	4.90	39.20	85.75	NLC453232T-1R0K-PF
1.2	±10%	7.96	0.12	1000	160	445-1945-1-ND	.59	4.90	39.20	85.75	NLC453232T-1R2K-PF
1.5	±10%	7.96	0.15	950	130	445-1946-1-ND	.59	4.90	39.20	85.75	NLC453232T-1R5K-PF
1.8	±10%	7.96	0.16	900	100	445-1947-1-ND	.59	4.90	39.20	85.75	NLC453232T-1R8K-PF
2.2	±10%	7.96	0.18	850	80	445-1948-1-ND	.59	4.90	39.20	85.75	NLC453232T-2R2K-PF
2.7	±10%	7.96	0.2	800	60	445-1949-1-ND	.59	4.90	39.20	85.75	NLC423232T-2R7K-PF
3.3	±10%	7.96	0.22	750	45	445-1950-1-ND	.59	4.90	39.20	85.75	NLC453232T-3R3K-PF
3.9	±10%	7.96	0.24	700	40	445-1951-1-ND	.59	4.90	39.20	85.75	NLC453232T-3R9K-PF
4.7	±10%	7.96	0.27	650	35	445-1952-1-ND	.59	4.90	39.20	85.75	NLC453232T-4R7K-PF
5.6	±10%	7.96	0.3	650	30	445-1953-1-ND	.59	4.90	39.20	85.75	NLC453232T-5R6K-PF
6.8	±10%	7.96	0.35	600	28	445-1954-1-ND	.59	4.90	39.20	85.75	NLC453232T-6R8K-PF
8.2	±10%	7.96	0.4	600	25	445-1955-1-ND	.59	4.90	39.20	85.75	NLC453232T-8R2K-PF
10	±10%	2.52	0.5	550	22	445-1956-1-ND	.59	4.90	39.20	85.75	NLC453232T-100K-PF
12	±10%	2.52	0.6	500	21	445-1957-1-ND	.59	4.90	39.20	85.75	NLC453232T-120K-PF
15	±10%	2.52	0.7	450	20	445-1958-1-ND	.59	4.90	39.20	85.75	NLC453232T-150K-PF
18	±10%	2.52	0.8	400	19	445-1959-1-ND	.59	4.90	39.20	85.75	NLC453232T-180K-PF
22	±10%	2.52	0.9	370	18	445-1960-1-ND	.59	4.90	39.20	85.75	NLC453232T-220K-PF
27	±10%	2.52	1.2	330	16	445-1961-1-ND	.59	4.90	39.20	85.75	NLC453232T-270K-PF
33	±10%	2.52	1.4	300	14	445-1962-1-ND	.59	4.90	39.20	85.75	NLC453232T-330K-PF
39	±10%	2.52	1.6	280	12	445-1963-1-ND	.59	4.90	39.20	85.75	NLC453232T-390K-PF
47	±10%	2.52	1.9	260	11.5	445-1964-1-ND	.59	4.90	39.20	85.75	NLC453232T-470K-PF
56	±10%	2.52	2.2	240	11	445-1965-1-ND	.59	4.90	39.20	85.75	NLC453232T-560K-PF
68	±10%	2.52	2.6	220	10	445-1966-1-ND	.59	4.90	39.20	85.75	NLC453232T-680K-PF
82	±10%	2.52	3.5	200	9	445-1967-1-ND	.59	4.90	39.20	85.75	NLC453232T-820K-PF
100	±10%	0.796	4	180	8	445-1968-1-ND	.59	4.90	39.20	85.75	NLC453232T-101K-PF
120	±10%	0.796	4.5	160	7.5	445-1969-1-ND	.59	4.90	39.20	85.75	NLC453232T-121K-PF
150	±10%	0.796	6.5	140	7	445-1970-1-ND	.59	4.90	39.20	85.75	NLC453232T-151K-PF
180	±10%	0.796	7.5	120	6.5	445-1971-1-ND	.59	4.90	39.20	85.75	NLC453232T-181K-PF
220	±10%	0.796	9	120	5.5	445-1972-1-ND	.59	4.90	39.20	85.75	NLC453232T-221K-PF
270	±10%	0.796	11	100	5	445-1973-1-ND	.59	4.90	39.20	85.75	NLC453232T-271K-PF
330	±10%	0.796	13	90	4	445-1974-1-ND	.59	4.90	39.20	85.75	NLC453232T-331K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 400	TDK Part No.
Fig. 5 — NL5650 Series											
6800	±5%	0.252	110	30	0.7	445-3664-1-ND	.90	8.00	70.00	—	NL565050T-682J-PF
Fig. 5 — NLC5650 Series											
1.5	±10%	7.96	0.04	1600	55	445-3521-1-ND	.81	7.20	63.00	126.00	NLC565050T-1R5K-PF
3.9	±10%	7.96	0.09	1050	32	445-3526-1-ND	.81	7.20	63.00	—	NLC565050T-3R9K-PF
100	±10%	0.796	1.6	250	6	445-3543-1-ND	.81	7.20	63.00	126.00	NLC565050T-101K-PF
220	±10%	0.796	3.4	170	3.9	445-3547-1-ND	.81	7.20	63.00	—	NLC565050T-221K-PF
1000	±10%	0.252	15	85	1.8	445-3555-1-ND	.81	7.20	63.00	—	NLC565050T-102K-PF

Inductance (µH)	Inductance Tol.	DC Res. Max. (Ω)	Rated Current Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 2,000	TDK Part No.
Fig. 6 — CPL2510T Series									
1.0	±20%	0.09	1200	445-4160-1-ND	.72	6.00	48.00	210.00/M	CPL2510T1R0M
1.5	±20%	0.12	1000	445-4161-1-ND	.72	6.00	48.00	210.00/M	CPL2510T1R5M
2.2	±20%	0.135	800	445-4162-1-ND	.72	6.00	48.00	210.00/M	CPL2510T2R2M
3.3	±20%	0.27	700	445-4163-1-ND	.72	6.00	48.00	210.00/M	CPL2510T3R3M
4.7	±20%	0.38	650	445-4164-1-ND	.72	6.00	48.00	210.00/M	CPL2510T4R7M
Fig. 6 — CPL2512T Series									
.15	±20%	0.034	2400	445-4165-1-ND	.60	5.00	40.00	175.00/M	CPL2512TR15M
.22	±20%	0.042	2200	445-4166-1-ND	.60	5.00	40.00	175.00/M	CPL2512TR22M
.33	±20%	0.051	2000	445-4167-1-ND	.60	5.00	40.00	175.00/M	CPL2512TR33M
.47	±20%	0.060	1800	445-4168-1-ND	.60	5.00	40.00	175.00/M	CPL2512TR47M
.68	±20%	0.077	1600	445-4169-1-ND	.60	5.00	40.00	175.00/M	CPL2512TR68M
1.0	±20%	0.090	1500	445-4170-1-ND	.60	5.00	40.00	175.00/M	CPL2512T1R0M
1.5	±20%	0.120	1200	445-4171-1-ND	.60	5.00	40.00	175.00/M	CPL2512T1R5M
2.2	±20%	0.135	900	445-4172-1-ND	.60	5.00	40.00	175.00/M	CPL2512T2R2M
3.3	±20%	0.240	730	445-4173-1-ND	.60	5.00	40.00	175.00/M	CPL2512T3R3M
4.7	±20%	0.360	650	445-4174-1-ND	.60	5.00	40.00	175.00/M	CPL2512T4R7M
6.8	±20%	0.700	450	445-4175-1-ND	.60	5.00	40.00	175.00/M	CPL2512T6R8M
10	±20%	0.900	300	445-4176-1-ND	.60	5.00	40.00	175.00/M	CPL2512T100M

† For Tape and Reel part number, change 1-ND to 2-ND.

TDK Inductors — VLP, SLF, RLF, SPM, VLCF, VLF and VLS Series

VLP Series:
This is a SMD power inductor for power supplies that has an open magnetic path construction based on a low-height drum core (upright). User terminals are contact-formed on the bottom of the drum core using copper (finished with tin plating). It uses crosswise windings and supports large currents.

SLF Series:
SLF series large current lead less inductors have been developed for SMD of power circuits. High performance ferrite core material and low-profile design, ensure superior characteristics and high reliability **Features:** • Low-profile SMD type • Magnetic shielded type suitable for high density mounting • Provided with embossed carrier tape packaging for automatic mounting machines • Only reflow soldering is applicable **Characteristics:** Sizes SLF6028, SLF7032, and SLF7045: Operating temperature is -20°C ~ 85°C; Size SLF10145: Operating temperature is -20°C ~ 90°C; Size 12565 and 12575: Operating temperature is -20°C ~ 105°C

RLF Series:
This series of inductors is designed for power circuits that require a low profile, low inductance and large current such as those used in notebook PC's **Features:** With the height at only 4.5mm and retaining the DC current superimposition characteristic, this inductor reduces DC resistance 20% to 50% lower than TDK's existing products **Applications:** Choke coils in power circuit of notebook computers, LCD, DVD, entertainment electronics, etc **Specifications:** • Operating Temperature Range: -20°C ~ 105°C • Storage Temperature Range: -40°C ~ 105°C

SPM Series:
Features: • Small footprint, low profile • High power handling capability • Small copper loss **Specifications:** • Operating Temperature Range: -40°C ~ 125°C (including self-temperature rise)

VLCF Series:
Features: • Miniature size • Generic use for portable DC to DC converter line • High magnetic shield construction should actualize high resolution for EMC protection **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

VLF Series:
Features: • These are compact inductors for power line measuring at L2.6 x W2.8mm and 1mm in height, considerably smaller compared to inductors with comparable characteristics • They feature low coil resistance, making them suitable for large currents (e.g., 0.7A at 0.24Ω) • They offer an excellent shielding effect **Applications:** • For mobile phones, hard disk drives and DSCs **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

VLS Series:
Features: • Miniature size • High magnetic shield construction should actualize high resolution for EMC protection **Applications:** • Generic use for portable DC to DC converter line • DVCs • DSCs • PDAs • LCD displays • Cellular phones • HDDs **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

Dimensions in mm

Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Fig. 1 — VLP4612 Series												
1.0	±20%	100	0.11	1.5	445-1916-1-ND	1.90	1.76	1.46	445-1916-2-ND	3,000	525.60/M	VLP4612T-1R0M1R5
1.8	±20%	100	0.14	1.3	445-1917-1-ND	1.90	1.76	1.46	445-1917-2-ND	3,000	525.60/M	VLP4612T-1R8M1R3
2.5	±20%	100	0.17	1.1	445-1919-1-ND	1.90	1.76	1.46	445-1919-2-ND	3,000	525.60/M	VLP4612T-2R5M1R1
3.3	±20%	100	0.26	0.85	445-1920-1-ND	1.90	1.76	1.46	445-1920-2-ND	3,000	525.60/M	VLP4612T-3R3MR85
4.7	±20%	100	0.28	0.72	445-1921-1-ND	1.90	1.76	1.46	445-1921-2-ND	3,000	525.60/M	VLP4612T-4R7MR72
6.8	±20%	100	0.38	0.67	445-1922-1-ND	1.90	1.76	1.46	445-1922-2-ND	3,000	525.60/M	VLP4612T-6R8MR67
10.0	±20%	100	0.62	0.52	445-1914-1-ND	1.90	1.76	1.46	445-1914-2-ND	3,000	525.60/M	VLP4612T-100MR52
15.0	±20%	100	0.96	0.42	445-1915-1-ND	1.90	1.76	1.46	445-1915-2-ND	3,000	525.60/M	VLP4612T-150MR42
22.0	±20%	100	1.42	0.34	445-1918-1-ND	1.90	1.76	1.46	445-1918-2-ND	3,000	525.60/M	VLP4612T-220MR34
Fig. 2 — VLP5610 Series												
2.7	±20%	100	0.17	1.0	445-1926-1-ND	2.52	2.33	1.94	445-1926-2-ND	3,000	698.40/M	VLP5610T-2R7M1R0
4.7	±20%	100	0.24	0.90	445-1929-1-ND	2.52	2.33	1.94	445-1929-2-ND	3,000	698.40/M	VLP5610T-4R7MR90
6.8	±20%	100	0.30	0.80	445-1930-1-ND	2.52	2.33	1.94	445-1930-2-ND	3,000	698.40/M	VLP5610T-6R8MR80
10.0	±20%	100	0.45	0.65	445-1923-1-ND	2.52	2.33	1.94	445-1923-2-ND	3,000	698.40/M	VLP5610T-100MR65
15.0	±20%	100	0.71	0.52	445-1924-1-ND	2.52	2.33	1.94	445-1924-2-ND	3,000	698.40/M	VLP5610T-150MR52
22.0	±20%	100	0.96	0.45	445-1925-1-ND	2.52	2.33	1.94	445-1925-2-ND	3,000	698.40/M	VLP5610T-220MR45
33.0	±20%	100	1.47	0.36	445-1927-1-ND	2.52	2.33	1.94	445-1927-2-ND	3,000	698.40/M	VLP5610T-330MR36
47.0	±20%	100	1.93	0.29	445-1928-1-ND	2.52	2.33	1.94	445-1928-2-ND	3,000	698.40/M	VLP5610T-470MR29
Fig. 3 — SLF6028 Series												
4.7	±20%	100	0.0284	1.6	445-1995-1-ND	2.73	2.28	1.82	445-1995-2-ND	1,000	796.25	SLF6028T-4R7M1R6-PF
6.8	±20%	100	0.0354	1.5	445-1997-1-ND	2.73	2.28	1.82	445-1997-2-ND	1,000	796.25	SLF6028T-6R8M1R5-PF
10	±20%	100	0.0532	1.3	445-1989-1-ND	2.73	2.28	1.82	445-1989-2-ND	1,000	796.25	SLF6028T-100M1R3-PF
15	±20%	100	0.0745	1.0	445-1991-1-ND	2.73	2.28	1.82	445-1991-2-ND	1,000	796.25	SLF6028T-150M1R0-PF
22	±20%	100	0.104	0.77	445-1992-1-ND	2.73	2.28	1.82	445-1992-2-ND	1,000	796.25	SLF6028T-220MR77-PF
33	±20%	100	0.148	0.69	445-1993-1-ND	2.73	2.28	1.82	445-1993-2-ND	1,000	796.25	SLF6028T-330MR69-PF
47	±20%	100	0.21	0.59	445-1994-1-ND	2.73	2.28	1.82	445-1994-2-ND	1,000	796.25	SLF6028T-470MR59-PF
68	±20%	100	0.29	0.50	445-1996-1-ND	2.73	2.28	1.82	445-1996-2-ND	1,000	796.25	SLF6028T-680MR50-PF
100	±20%	100	0.43	0.42	445-1990-1-ND	2.73	2.28	1.82	445-1990-2-ND	1,000	796.25	SLF6028T-101MR42-PF
Fig. 4 — SLF6045 Series												
1.5	±30%	100	0.016 ±30%	4.0	445-4568-1-ND	1.18	1.05	.92	445-4568-2-ND	1,000	459.00	SLF6045T-1R5N4R0-3PF
2.2	±30%	100	0.018 ±30%	3.3	445-4569-1-ND	1.18	1.05	.92	445-4569-2-ND	1,000	459.00	SLF6045T-2R2N3R3-3PF
3.3	±30%	100	0.0215 ±30%	2.8	445-4570-1-ND	1.18	1.05	.92	445-4570-2-ND	1,000	459.00	SLF6045T-3R3N2R8-3PF
4.7	±30%	100	0.0265 ±30%	2.4	445-4571-1-ND	1.18	1.05	.92	445-4571-2-ND	1,000	459.00	SLF6045T-4R7N2R4-3PF
6.8	±30%	100	0.033 ±30%	2.0	445-4572-1-ND	1.18	1.05	.92	445-4572-2-ND	1,000	459.00	SLF6045T-6R8N2R0-3PF
10	±20%	100	0.039	1.6	445-4573-1-ND	1.18	1.05	.92	445-4573-2-ND	1,000	459.00	SLF6045T-100M1R6-3PF
15	±20%	100	0.0595	1.3	445-4574-1-ND	1.18	1.05	.92	445-4574-2-ND	1,000	459.00	SLF6045T-150M1R3-3PF
22	±20%	100	0.082	1.1	445-4575-1-ND	1.18	1.05	.92	445-4575-2-ND	1,000	459.00	SLF6045T-220M1R1-3PF
Fig. 5 — SLF7032 Series												
3.3	±20%	100	0.023	1.9	445-2007-1-ND	1.16	.97	.78	445-2007-2-ND	1,000	337.75	SLF7032T-3R3M1R9-2-PF
4.7	±20%	100	0.03	1.7	445-2010-1-ND	1.16	.97	.78	445-2010-2-ND	1,000	337.75	SLF7032T-4R7M1R7-2-PF
6.8	±20%	100	0.041	1.6	445-2013-1-ND	1.16	.97	.78	445-2013-2-ND	1,000	337.75	SLF7032T-6R8M1R6-2-PF
10	±20%	100	0.053	1.4	445-1998-1-ND	1.16	.97	.78	445-1998-2-ND	1,000	337.75	SLF7032T-100M1R4-2-PF
15	±20%	100	0.075	1.1	445-2001-1-ND	1.16	.97	.78	445-2001-2-ND	1,000	337.75	SLF7032T-150M1R1-2-PF
22	±20%	100	0.11	0.96	445-2003-1-ND	1.16	.97	.78	445-2003-2-ND	1,000	337.75	SLF7032T-220MR96-2-PF
33	±20%	100	0.16	0.75	445-2005-1-ND	1.16	.97	.78	445-2005-2-ND	1,000	337.75	SLF7032T-330MR75-2-PF
47	±20%	100	0.24	0.67	445-2008-1-ND	1.16	.97	.78	445-2008-2-ND	1,000	337.75	SLF7032T-470MR67-2-PF
68	±20%	100	0.31	0.59	445-2011-1-ND	1.16	.97	.78	445-2011-2-ND	1,000	337.75	SLF7032T-680MR59-2-PF
100	±20%	100	0.45	0.45	445-1999-1-ND	1.16	.97	.78	445-1999-2-ND	1,000	337.75	SLF7032T-101MR45-2-PF
150	±20%	100	0.65	0.37	445-2002-1-ND	1.16	.97	.78	445-2002-2-ND	1,000	337.75	SLF7032T-151MR37-2-PF
220	±20%	100	1.05	0.29	445-2004-1-ND	1.16	.97	.78	445-2004-2-ND	1,000	337.75	SLF7032T-221MR29-2-PF
330	±20%	100	1.67	0.22	445-2006-1-ND	1.16	.97	.78	445-2006-2-ND	1,000	337.75	SLF7032T-331MR22-2-PF
470	±20%	100	2.05	0.20	445-2009-1-ND	1.16	.97	.78	445-2009-2-ND	1,000	337.75	SLF7032T-471MR20-2-PF
680	±20%	100	3.15	0.16	445-2012-1-ND	1.16	.97	.78	445-2012-2-ND	1,000	337.75	SLF7032T-681MR16-2-PF
1000	±20%	100	4.78	0.13	445-2000-1-ND	1.16	.97	.78	445-2000-2-ND	1,000	337.75	SLF7032T-102MR13-2-PF
Fig. 6 — SLF7045 Series												
3.3	±20%	100	0.02	2.5	445-2023-1-ND	1.31	1.09	.88	445-2023-2-ND	1,000	381.50	SLF7045T-3R3M2R5-PF
3.3	±20%	100	0.028	2.2	445-3866-1-ND‡	1.32	1.10	.88	445-3866-2-ND‡	1,000	385.00	SLF7045T-3R3M2R2-H
4.7	±20%	100	0.03	2.0	445-2026-1-ND	1.31	1.09	.88	445-2026-2-ND	1,000	381.50	SLF7045T-4R7M2R0-PF
4.7	±20%	100	0.031	2.1	445-3867-1-ND‡	1.32	1.10	.88	445-3867-2-ND‡	1,000	385.00	SLF7045T-4R7M2R1-H
6.8	±20%	100	0.039	1.7	445-2029-1-ND	1.31	1.09	.88	445-2029-2-ND	1,000	381.50	SLF7045T-6R8M1R7-PF
6.8	±20%	100	0.039	1.9	445-3868-1-ND‡	1.32	1.10	.88	445-3868-2-ND‡	1,000	385.00	SLF7045T-6R8M1R9-H
10	±20%	100	0.036	1.3	445-2014-1-ND	1.31	1.09	.88	445-2014-2-ND	1,000	381.50	SLF7045T-100M1R3-PF
10	±20%	100	0.047	1.8	445-3869-1-ND‡	1.32	1.10	.88	445-3869-2-ND‡	1,000	385.00	SLF7045T-100M1R8-H
15	±20%	100	0.052	1.1	445-2017-1-ND	1.31	1.09	.88	445-2017-2-ND	1,000	381.50	SLF7045T-150M1R1-PF
15	±20%	100	0.068	1.5	445-3870-1-ND‡	1.32	1.10	.88	445-3870-2-ND‡	1,000	385.00	SLF7045T-150M1R5-H
22	±20%	100	0.061	0.90	445-2019-1-ND	1.31	1.09	.88	445-2019-2-ND	1,000	381.50	SLF7045T-220MR90-PF
22	±20%	100	0.082	1.3	445-3871-1-ND‡	1.32	1.10	.88	445-3871-2-ND‡	1,000	385.00	SLF7045T-220M1R3-H
33	±20%	100	0.096	0.82	445-2021-1-ND	1.31	1.09	.88	445-2021-2-ND	1,000	381.50	SLF7045T-330MR82-PF
33	±20%	100	0.12	1.1	445-3872-1-ND‡	1.32	1.10	.88	445-3872-2-ND‡	1,000	385.00	SLF7045T-330M1R1-H
47	±20%	100	0.125	0.75	445-2024-1-ND	1.31	1.09	.88	445-2024-2-ND	1,000	381.50	SLF7045T-470MR75-PF
47	±20%	100	0.18	0.90	445-3884-1-ND‡	1.32	1.10	.88	445-3884-2-ND‡	1,000	385.00	SLF7045T-470MR90-H
68	±20%	100	0.175	0.60	445-2027-1-ND	1.31	1.09	.88	445-2027-2-ND	1,000	381.50	SLF7045T-680MR60-PF
68	±20%	100	0.27	0.75	445-3873-1-ND‡	1.32	1.10	.88	445-3873-2-ND‡	1,000	385.00	SLF7045T-680MR75-H

Fig. 1 — VLP46

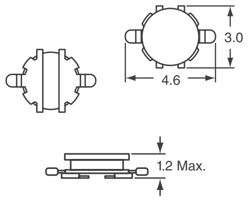

Fig. 2 — VLP56

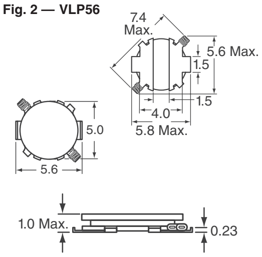

Fig. 3 — SLF6028

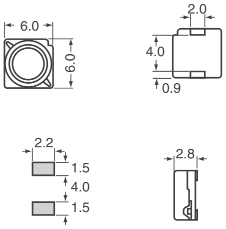

Fig. 4 — SLF6045

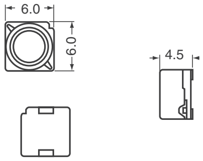

Fig. 5 — SLF7032

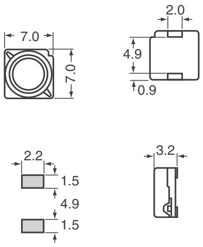

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

(Continued)

Induct-ance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
100	±20%	100	0.25	0.50	445-2015-1-ND	1.31	1.09	.88	445-2015-2-ND	1,000	381.50	SLF7045T-101MR50-PF
100	±20%	100	0.39	0.60	445-3885-1-ND‡	1.32	1.10	.88	445-3885-2-ND‡	1,000	385.00	SLF7045T-101MR60-H
150	±20%	100	0.34	0.40	445-2018-1-ND	1.31	1.09	.88	445-2018-2-ND	1,000	381.50	SLF7045T-151MR40-PF
150	±20%	100	0.55	0.50	445-3874-1-ND‡	1.32	1.10	.88	445-3874-2-ND‡	1,000	385.00	SLF7045T-151MR50-H
220	±20%	100	0.52	0.33	445-2020-1-ND	1.31	1.09	.88	445-2020-2-ND	1,000	381.50	SLF7045T-221MR33-PF
220	±20%	100	0.83	0.40	445-3875-1-ND‡	1.32	1.10	.88	445-3875-2-ND‡	1,000	385.00	SLF7045T-221MR40-H
330	±20%	100	0.74	0.25	445-2022-1-ND	1.31	1.09	.88	445-2022-2-ND	1,000	381.50	SLF7045T-331MR25-PF
330	±20%	100	1.15	0.35	445-3876-1-ND‡	1.32	1.10	.88	445-3876-2-ND‡	1,000	385.00	SLF7045T-331MR35-H
470	±20%	100	1.05	0.22	445-2025-1-ND	1.31	1.09	.88	445-2025-2-ND	1,000	381.50	SLF7045T-471MR22-PF
680	±20%	100	1.48	0.20	445-2028-1-ND	1.31	1.09	.88	445-2028-2-ND	1,000	381.50	SLF7045T-681MR20-PF
1000	±20%	100	2.28	0.14	445-2016-1-ND	1.31	1.09	.88	445-2016-2-ND	1,000	381.50	SLF7045T-102MR14-PF
Fig. 7 — SLF7055 Series												
1.5	±30%	100	0.0174 ±30%	4.0	445-4560-1-ND	1.04	.93	.81	445-4560-2-ND	1,000	404.00	SLF7055T-1R5N4R0-3PF
2.2	±30%	100	0.0217 ±30%	3.5	445-4561-1-ND	1.04	.93	.81	445-4561-2-ND	1,000	404.00	SLF7055T-2R2N3R5-3PF
3.3	±30%	100	0.024 ±30%	3.3	445-4562-1-ND	1.04	.93	.81	445-4562-2-ND	1,000	404.00	SLF7055T-3R3N3R3-3PF
4.7	±30%	100	0.028 ±30%	3.1	445-4563-1-ND	1.04	.93	.81	445-4563-2-ND	1,000	404.00	SLF7055T-4R7N3R1-3PF
6.8	±30%	100	0.034 ±30%	2.8	445-4564-1-ND	1.04	.93	.81	445-4564-2-ND	1,000	404.00	SLF7055T-6R8N2R8-3PF
10	±20%	100	0.0391	2.5	445-4565-1-ND	1.04	.93	.81	445-4565-2-ND	1,000	404.00	SLF7055T-100M2R5-3PF
15	±20%	100	0.0508	2.1	445-4566-1-ND	1.04	.93	.81	445-4566-2-ND	1,000	404.00	SLF7055T-150M2R1-3PF
22	±20%	100	0.0643	1.7	445-4567-1-ND	1.04	.93	.81	445-4567-2-ND	1,000	404.00	SLF7055T-220M1R7-3PF
Fig. 8 — SLF10145 Series												
3.3	±30%	1	0.0161	3.7	445-3834-1-ND‡	1.80	1.50	1.20	445-3834-2-ND‡	500	262.50	SLF10145T-3R3N3R7-H
5.6	±20%	1	0.0220	3.2	445-3837-1-ND‡	1.80	1.50	1.20	445-3837-2-ND‡	500	262.50	SLF10145T-5R6M3R2-H
10	±20%	1	0.0364	2.5	445-1975-1-ND	1.76	1.47	1.18	445-1975-2-ND	500	256.38	SLF10145T-100M2R5-PF
10	±20%	1	0.0364	2.5	445-3824-1-ND‡	1.80	1.50	1.20	445-3824-2-ND‡	500	262.50	SLF10145T-100M2R5-H
15	±20%	1	0.0472	2.2	445-1978-1-ND	1.76	1.47	1.18	445-1978-2-ND	500	256.38	SLF10145T-150M2R2-PF
15	±20%	1	0.0472	2.2	445-3827-1-ND‡	1.80	1.50	1.20	445-3827-2-ND‡	500	262.50	SLF10145T-150M2R2-H
22	±20%	1	0.0591	1.9	445-1981-1-ND	1.76	1.47	1.18	445-1981-2-ND	500	256.38	SLF10145T-220M1R9-PF
22	±20%	1	0.0591	1.9	445-3830-1-ND‡	1.80	1.50	1.20	445-3830-2-ND‡	500	262.50	SLF10145T-220M1R9-H
33	±20%	1	0.0815	1.6	445-1983-1-ND	1.76	1.47	1.18	445-1983-2-ND	500	256.38	SLF10145T-330M1R6-PF
33	±20%	1	0.0815	1.6	445-3832-1-ND‡	1.80	1.50	1.20	445-3832-2-ND‡	500	262.50	SLF10145T-330M1R6-H
47	±20%	1	0.1	1.4	445-1985-1-ND	1.76	1.47	1.18	445-1985-2-ND	500	256.38	SLF10145T-470M1R4-PF
47	±20%	1	0.1	1.4	445-3835-1-ND‡	1.80	1.50	1.20	445-3835-2-ND‡	500	262.50	SLF10145T-470M1R4-H
68	±20%	1	0.14	1.2	445-1987-1-ND	1.76	1.47	1.18	445-1987-2-ND	500	256.38	SLF10145T-680M1R2-PF
68	±20%	1	0.14	1.2	445-3838-1-ND‡	1.80	1.50	1.20	445-3838-2-ND‡	500	262.50	SLF10145T-680M1R2-H
100	±20%	1	0.2	1.0	445-1976-1-ND	1.76	1.47	1.18	445-1976-2-ND	500	256.38	SLF10145T-101M1R0-PF
100	±20%	1	0.2	1.0	445-3825-1-ND‡	1.80	1.50	1.20	445-3825-2-ND‡	500	262.50	SLF10145T-101M1R0-H
150	±20%	1	0.35	0.79	445-1979-1-ND	1.76	1.47	1.18	445-1979-2-ND	500	256.38	SLF10145T-151MR79-PF
150	±20%	1	0.35	0.79	445-3828-1-ND‡	1.80	1.50	1.20	445-3828-2-ND‡	500	262.50	SLF10145T-151MR79-H
220	±20%	1	0.47	0.65	445-1982-1-ND	1.76	1.47	1.18	445-1982-2-ND	500	256.38	SLF10145T-221MR65-PF
220	±20%	1	0.47	0.65	445-3831-1-ND‡	1.80	1.50	1.20	445-3831-2-ND‡	500	262.50	SLF10145T-221MR65-H
330	±20%	1	0.68	0.54	445-1984-1-ND	1.76	1.47	1.18	445-1984-2-ND	500	256.38	SLF10145T-331MR54-PF
330	±20%	1	0.68	0.54	445-3833-1-ND‡	1.80	1.50	1.20	445-3833-2-ND‡	500	262.50	SLF10145T-331MR54-H
470	±20%	1	1.03	0.47	445-1986-1-ND	1.76	1.47	1.18	445-1986-2-ND	500	256.38	SLF10145T-471MR47-PF
470	±20%	1	1.03	0.47	445-3836-1-ND‡	1.80	1.50	1.20	445-3836-2-ND‡	500	262.50	SLF10145T-471MR47-H
680	±20%	1	1.6	0.38	445-1988-1-ND	1.76	1.47	1.18	445-1988-2-ND	500	256.38	SLF10145T-681MR38-PF
680	±20%	1	1.6	0.38	445-3839-1-ND‡	1.80	1.50	1.20	445-3839-2-ND‡	500	262.50	SLF10145T-681MR38-H
1000	±20%	1	2.8	0.29	445-1977-1-ND	1.76	1.47	1.18	445-1977-2-ND	500	256.38	SLF10145T-102MR29-PF
1000	±20%	1	2.8	0.29	445-3826-1-ND‡	1.80	1.50	1.20	445-3826-2-ND‡	500	262.50	SLF10145T-102MR29-H
1500	±20%	1	3.4	0.22	445-1980-1-ND	1.76	1.47	1.18	445-1980-2-ND	500	256.38	SLF10145T-152MR22-PF
1500	±20%	1	3.4	0.22	445-3829-1-ND‡	1.80	1.50	1.20	445-3829-2-ND‡	500	262.50	SLF10145T-152MR22-H
Fig. 9 — SLF12565 Series												
2.0	±30%	1	0.0117	6.2	445-3845-1-ND	3.00	2.50	2.00	445-3845-2-ND	500	437.50	SLF12565T-2R0N6R2-H
4.2	±30%	1	0.015	5.5	445-3848-1-ND	3.00	2.50	2.00	445-3848-2-ND	500	437.50	SLF12565T-4R2N5R5-H
7.0	±30%	1	0.0177	5.0	445-3850-1-ND	3.00	2.50	2.00	445-3850-2-ND	500	437.50	SLF12565T-7R0N5R0-H
10	±20%	1	0.0202	4.8	445-3840-1-ND	3.00	2.50	2.00	445-3840-2-ND	500	437.50	SLF12565T-100M4R8-H
15	±20%	1	0.0237	4.2	445-3842-1-ND	3.00	2.50	2.00	445-3842-2-ND	500	437.50	SLF12565T-150M4R2-H
22	±20%	1	0.0316	3.5	445-3843-1-ND	3.00	2.50	2.00	445-3843-2-ND	500	437.50	SLF12565T-220M3R5-H
33	±20%	1	0.0406	2.8	445-3846-1-ND	3.00	2.50	2.00	445-3846-2-ND	500	437.50	SLF12565T-330M2R8-H
47	±20%	1	0.0578	2.4	445-3847-1-ND	3.00	2.50	2.00	445-3847-2-ND	500	437.50	SLF12565T-470M2R4-H
68	±20%	1	0.0787	2.0	445-3849-1-ND	3.00	2.50	2.00	445-3849-2-ND	500	437.50	SLF12565T-680M2R0-H
100	±20%	1	0.123	1.6	445-3841-1-ND	3.00	2.50	2.00	445-3841-2-ND	500	437.50	SLF12565T-101M1R6-H
220	±20%	1	0.273	1.0	445-3844-1-ND	3.00	2.50	2.00	445-3844-2-ND	500	437.50	SLF12565T-221M1R0-H
Fig. 9 — SLF12575 Series												
1.2	±30%	1	0.0051	8.2	445-3855-1-ND	3.30	2.75	2.20	445-3855-2-ND	500	481.50	SLF12575T-1R2N8R2-H
2.7	±30%	1	0.0074	7.0	445-3858-1-ND	3.30	2.75	2.20	445-3858-2-ND	500	481.50	SLF12575T-2R7N7R0-H
3.9	±30%	1	0.0104	6.7	445-3861-1-ND	3.30	2.75	2.20	445-3861-2-ND	500	481.50	SLF12575T-3R9N6R7-H
5.6	±30%	1	0.0116	6.3	445-3863-1-ND	3.30	2.75	2.20	445-3863-2-ND	500	481.50	SLF12575T-5R6N6R3-H
6.8	±30%	1	0.0131	5.9	445-3865-1-ND	3.30	2.75	2.20	445-3865-2-ND	500	481.50	SLF12575T-6R8N5R9-H
10	±20%	1	0.0156	5.4	445-3851-1-ND	3.30	2.75	2.20	445-3851-2-ND	500	481.50	SLF12575T-100M5R4-H
15	±20%	1	0.0184	4.7	445-3853-1-ND	3.30	2.75	2.20	445-3853-2-ND	500	481.50	SLF12575T-150M4R7-H
33	±20%	1	0.0395	3.2	445-3859-1-ND	3.30	2.75	2.20	445-3859-2-ND	500	481.50	SLF12575T-330M3R2-H
47	±20%	1	0.0528	2.7	445-3862-1-ND	3.30	2.75	2.20	445-3862-2-ND	500	481.50	SLF12575T-470M2R7-H
68	±20%	1	0.0778	2.0	445-3864-1-ND	3.30	2.75	2.20	445-3864-2-ND	500	481.50	SLF12575T-680M2R0-H
100	±20%	1	0.125	1.9	445-3852-1-ND	3.30	2.75	2.20	445-3852-2-ND	500	481.50	SLF12575T-101M1R9-H
150	±20%	1	0.175	1.5	445-3854-1-ND	3.30	2.75	2.20	445-3854-2-ND	500	481.50	SLF12575T-151M1R5-H
330	±20%	1	0.34	1.0	445-3860-1-ND	3.30	2.75	2.20	445-3860-2-ND	500	481.50	SLF12575T-331M1R0-H
Fig. 10 — RLF12545 Series												
2.7	±30%	100	0.0045	8.7	445-2949-1-ND	3.96	3.30	2.64	445-2949-2-ND	500	577.50	RLF12545T-2R7N8R7-PF
4.2	±30%	100	0.0074	6.5	445-2950-1-ND	3.96	3.30	2.64	445-2950-2-ND	500	577.50	RLF12545T-4R2N6R5-PF
5.6	±30%	100	0.0085	6.1	445-2951-1-ND	3.96	3.30	2.64	445-2951-2-ND	500	577.50	RLF12545T-5R6N6R1-PF
7.8	±30%	100	0.0102	5.4	445-2952-1-ND	3.96	3.30	2.64	445-2952-2-ND	500	577.50	RLF12545T-7R8N5R4-PF
10	±20%	100	0.0124	5.1	445-2947-1-ND	3.96	3.30	2.64	445-2947-2-ND	500	577.50	RLF12545T-100M5R1-PF
Fig. 10 — RLF12560 Series												
1.0	±30%	100	0.0028	14	445-2954-1-ND	4.20	3.50	2.80	445-2954-2-ND	500	612.50	RLF12560T-1R0N140
1.9	±30%	100	0.0036	12	445-2955-1-ND	4.20	3.50	2.80	445-2955-2-ND	500	612.50	RLF12560T-1R9N120
2.7	±30%	100	0.0045	11	445-2956-1-ND	4.20	3.50	2.80	445-2956-2-ND	500	612.50	RLF12560T-2R7N110
4.2	±30%	100	0.0074	10	445-2957-1-ND	4.20	3.50	2.80	445-2957-2-ND	500	612.50	RLF12560T-4R2N100
5.6	±30%	100	0.0085	9.2	445-2958-1-ND	4.20	3.50	2.80	445-2958-2-ND	500	612.50	RLF12560T-5R6N9R2
7.8	±30%	100	0.0102	8.2	445-2959-1-ND	4.20	3.50	2.80	445-2959-2-ND	500	612.50	RLF12560T-7R8N8R2
10	±20%	100	0.0124	7.5	445-2953-1-ND	4.20	3.50	2.80	445-2953-2-ND	500	612.50	RLF12560T-100M7R5

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

Fig. 6 — SLF7045

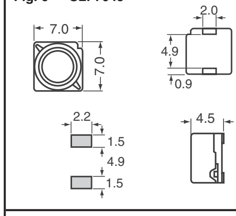

Fig. 7 — SLF7055

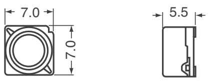

Fig. 8 — SLF10145

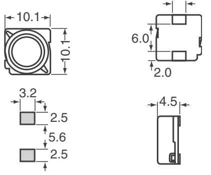

Fig. 9 — SLF12565, SLF12575

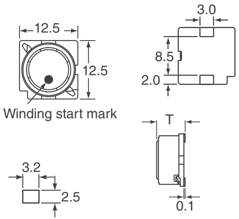

Series	Dim. T
12565	6.5
12575	7.5

Fig. 10 — RLF12545, RLF12560

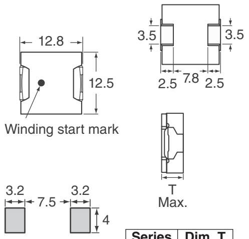

Series	Dim. T
12545	4.7
12560	6.0

Fig. 11 — RLF7030

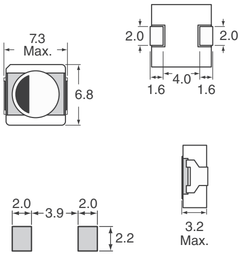

(Continued)

Inductors — VLP, SLF, RLF, SPM, VLCF, VLF and VLS Series *(Cont.)*

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
					Fig. 11 — RLF7030 Series							
1.0	±30%	100	0.0073	6.4	445-2960-1-ND	2.88	2.40	1.92	445-2960-2-ND	1,000	840.00	RLF7030T-1R0N6R4
1.5	±30%	100	0.0080	6.1	445-2961-1-ND	2.88	2.40	1.92	445-2961-2-ND	1,000	840.00	RLF7030T-1R5N6R1
2.2	±20%	100	0.0100	5.4	445-2962-1-ND	2.88	2.40	1.92	445-2962-2-ND	1,000	840.00	RLF7030T-2R2M5R4
3.3	±20%	100	0.0174	4.1	445-2963-1-ND	2.88	2.40	1.92	445-2963-2-ND	1,000	840.00	RLF7030T-3R3M4R1
4.7	±20%	100	0.0260	3.4	445-2964-1-ND	2.88	2.40	1.92	445-2964-2-ND	1,000	840.00	RLF7030T-4R7M3R4
6.8	±20%	100	0.0373	2.8	445-2965-1-ND	2.88	2.40	1.92	445-2965-2-ND	1,000	840.00	RLF7030T-6R8M2R8
					Fig. 12 — SPM6530 Series							
0.25	±20%	100	2.1	23	445-3877-1-ND	2.00	1.67	1.33	445-3877-2-ND	1,000	582.00	SPM6530T-R25M230
0.47	±20%	100	3.3	17	445-3878-1-ND	2.00	1.67	1.33	445-3878-2-ND	1,000	582.00	SPM6530T-R47M170
0.68	±20%	100	4.9	14	445-3879-1-ND	2.00	1.67	1.33	445-3879-2-ND	1,000	582.00	SPM6530T-R68M140
1.0	±20%	100	7.1	12	445-3880-1-ND	2.00	1.67	1.33	445-3880-2-ND	1,000	582.00	SPM6530T-1R0M120
1.5	±20%	100	9.7	10	445-3881-1-ND	2.00	1.67	1.33	445-3881-2-ND	1,000	582.00	SPM6530T-1R5M100
2.2	±20%	100	17.3	8.2	445-4118-1-ND	2.00	1.67	1.33	445-4118-2-ND	1,000	582.00	SPM6530T-2R2M
3.3	±20%	100	27	6.8	445-4119-1-ND	2.00	1.67	1.33	445-4119-2-ND	1,000	582.00	SPM6530T-3R3M
4.7	±20%	100	35.8	5.6	445-4120-1-ND	2.00	1.67	1.33	445-4120-2-ND	1,000	582.00	SPM6530T-4R7M
					Fig. 13 — SPM10040 Series							
0.36	±20%	300	0.0011	17	445-3603-1-ND	1.58	1.40	1.23	445-3603-2-ND	500	306.50	SPM10040T-R36M170
0.56	±20%	300	0.0017	15	445-3604-1-ND	1.58	1.40	1.23	445-3604-2-ND	500	306.50	SPM10040T-R56M150
					Fig. 14 — VLCF4018-2 Series							
1.6	±30%	100	0.044	1.7	445-3171-1-ND	.77	.68	.60	445-3171-2-ND	1,000	298.00	VLCF4018T-1R6N1R7-2
2.2	±30%	100	0.052	1.4	445-3172-1-ND	.77	.68	.60	445-3172-2-ND	1,000	298.00	VLCF4018T-2R2N1R4-2
3.3	±30%	100	0.069	1.2	445-3173-1-ND	.77	.68	.60	445-3173-2-ND	1,000	298.00	VLCF4018T-3R3N1R2-2
4.7	±30%	100	0.088	1.0	445-3174-1-ND	.77	.68	.60	445-3174-2-ND	1,000	298.00	VLCF4018T-4R7N1R0-2
6.8	±30%	100	0.108	0.94	445-3175-1-ND	.77	.68	.60	445-3175-2-ND	1,000	298.00	VLCF4018T-6R8NR94-2
10	±20%	100	0.163	0.74	445-3176-1-ND	.77	.68	.60	445-3176-2-ND	1,000	298.00	VLCF4018T-100MR74-2
15	±20%	100	0.233	0.59	445-3177-1-ND	.77	.68	.60	445-3177-2-ND	1,000	298.00	VLCF4018T-150MR59-2
22	±20%	100	0.321	0.49	445-3178-1-ND	.77	.68	.60	445-3178-2-ND	1,000	298.00	VLCF4018T-220MR49-2
33	±20%	100	0.469	0.42	445-3179-1-ND	.77	.68	.60	445-3179-2-ND	1,000	298.00	VLCF4018T-330MR42-2
47	±20%	100	0.661	0.34	445-3180-1-ND	.77	.68	.60	445-3180-2-ND	1,000	298.00	VLCF4018T-470MR34-2
					Fig. 14 — VLCF4020 Series							
1.8	±30%	100	0.046	1.9	445-3181-1-ND	.77	.68	.60	445-3181-2-ND	1,000	298.00	VLCF4020T-1R8N1R9
2.2	±30%	100	0.054	1.7	445-3182-1-ND	.77	.68	.60	445-3182-2-ND	1,000	298.00	VLCF4020T-2R2N1R7
3.3	±30%	100	0.071	1.5	445-3183-1-ND	.77	.68	.60	445-3183-2-ND	1,000	298.00	VLCF4020T-3R3N1R5
4.7	±30%	100	0.089	1.2	445-3184-1-ND	.77	.68	.60	445-3184-2-ND	1,000	298.00	VLCF4020T-4R7N1R2
6.8	±30%	100	0.119	1.0	445-3185-1-ND	.77	.68	.60	445-3185-2-ND	1,000	298.00	VLCF4020T-6R8N1R0
10	±20%	100	0.168	0.85	445-3186-1-ND	.77	.68	.60	445-3186-2-ND	1,000	298.00	VLCF4020T-100MR85
15	±20%	100	0.275	0.68	445-3187-1-ND	.77	.68	.60	445-3187-2-ND	1,000	298.00	VLCF4020T-150MR68
22	±20%	100	0.391	0.56	445-3188-1-ND	.77	.68	.60	445-3188-2-ND	1,000	298.00	VLCF4020T-220MR56
27	±20%	100	0.451	0.48	445-3189-1-ND	.77	.68	.60	—	—	—	VLCF4020T-270MR48
33	±20%	100	0.571	0.47	445-3190-1-ND	.77	.68	.60	445-3190-2-ND	1,000	298.00	VLCF4020T-330MR47
47	±20%	100	0.849	0.39	445-3191-1-ND	.77	.68	.60	445-3191-2-ND	1,000	298.00	VLCF4020T-470MR39
100	±20%	100	1.308	0.26	445-3192-1-ND	.77	.68	.60	445-3192-2-ND	1,000	298.00	VLCF4020T-101MR26
					Fig. 15 — VLCF5020 Series							
1.8	±30%	100	0.049	2.0	445-3193-1-ND	.81	.72	.63	445-3193-2-ND	500	157.50	VLCF5020T-1R8N2R0
2.7	±30%	100	0.058	1.7	445-3194-1-ND	.81	.72	.63	445-3194-2-ND	500	157.50	VLCF5020T-2R7N1R7
3.3	±30%	100	0.069	1.6	445-3195-1-ND	.81	.72	.63	445-3195-2-ND	500	157.50	VLCF5020T-3R3N1R6
4.7	±30%	100	0.079	1.4	445-3196-1-ND	.81	.72	.63	445-3196-2-ND	500	157.50	VLCF5020T-4R7N1R4
6.8	±30%	100	0.102	1.1	445-3197-1-ND	.81	.72	.63	445-3197-2-ND	500	157.50	VLCF5020T-6R8N1R1
10	±20%	100	0.151	0.87	445-3198-1-ND	.81	.72	.63	445-3198-2-ND	500	157.50	VLCF5020T-100MR87
15	±20%	100	0.214	0.71	445-3199-1-ND	.81	.72	.63	445-3199-2-ND	500	157.50	VLCF5020T-150MR71
22	±20%	100	0.311	0.58	445-3200-1-ND	.81	.72	.63	445-3200-2-ND	500	157.50	VLCF5020T-220MR58
33	±20%	100	0.435	0.48	445-3201-1-ND	.81	.72	.63	445-3201-2-ND	500	157.50	VLCF5020T-330MR48
47	±20%	100	0.623	0.40	445-3202-1-ND	.81	.72	.63	445-3202-2-ND	500	157.50	VLCF5020T-470MR40
100	±20%	100	1.375	0.27	445-3203-1-ND	.81	.72	.63	445-3203-2-ND	500	157.50	VLCF5020T-101MR27
					Fig. 15 — VLCF5020-1 Series							
2.2	±30%	100	0.058	2.6	445-3204-1-ND	.81	.72	.63	445-3204-2-ND	500	157.50	VLCF5020T-2R2N2R6-1
2.7	±30%	100	0.069	2.2	445-3205-1-ND	.81	.72	.63	445-3205-2-ND	500	157.50	VLCF5020T-2R7N2R2-1
3.3	±30%	100	0.079	2.0	445-3206-1-ND	.81	.72	.63	445-3206-2-ND	500	157.50	VLCF5020T-3R3N2R0-1
4.7	±30%	100	0.102	1.7	445-3207-1-ND	.81	.72	.63	445-3207-2-ND	500	157.50	VLCF5020T-4R7N1R7-1
6.8	±30%	100	0.138	1.3	445-3208-1-ND	.81	.72	.63	445-3208-2-ND	500	157.50	VLCF5020T-6R8N1R3-1
10	±20%	100	0.198	1.1	445-3209-1-ND	.81	.72	.63	445-3209-2-ND	500	157.50	VLCF5020T-100M1R1-1
15	±20%	100	0.292	0.90	445-3210-1-ND	.81	.72	.63	445-3210-2-ND	500	157.50	VLCF5020T-150MR90-1
22	±20%	100	0.413	0.75	445-3211-1-ND	.81	.72	.63	445-3211-2-ND	500	157.50	VLCF5020T-220MR75-1
33	±20%	100	0.597	0.62	445-3212-1-ND	.81	.72	.63	445-3212-2-ND	500	157.50	VLCF5020T-330MR62-1
47	±20%	100	0.875	0.51	445-3213-1-ND	.81	.72	.63	445-3213-2-ND	500	157.50	VLCF5020T-470MR51-1
					Fig. 15 — VLCF5020-3 Series							
2.2	±30%	100	0.038	2.62	445-4557-1-ND	.95	.84	.74	445-4557-2-ND	500	184.00	VLCF5020T-2R2N2R6-3
2.7	±30%	100	0.046	2.28	445-4558-1-ND	.95	.84	.74	445-4558-2-ND	500	184.00	VLCF5020T-2R7N2R2-3
3.3	±30%	100	0.055	2.02	445-4559-1-ND	.95	.84	.74	445-4559-2-ND	500	184.00	VLCF5020T-3R3N2R0-3
					Fig. 16 — VLF3010A Series							
1.5	±30%	100	0.068	1.2	445-3214-1-ND	.90	.80	.70	445-3214-2-ND	2,000	350.00/M	VLF3010AT-1R5N1R2
2.2	±20%	100	0.10	1.0	445-3215-1-ND	.90	.80	.70	445-3215-2-ND	2,000	350.00/M	VLF3010AT-2R2M1R0
3.3	±20%	100	0.15	0.87	445-3216-1-ND	.90	.80	.70	445-3216-2-ND	2,000	350.00/M	VLF3010AT-3R3MR87
4.7	±20%	100	0.24	0.70	445-3217-1-ND	.90	.80	.70	445-3217-2-ND	2,000	350.00/M	VLF3010AT-4R7MR70
6.8	±20%	100	0.34	0.61	445-3218-1-ND	.90	.80	.70	445-3218-2-ND	2,000	350.00/M	VLF3010AT-6R8MR61
10	±20%	100	0.58	0.49	445-3219-1-ND	.90	.80	.70	445-3219-2-ND	2,000	350.00/M	VLF3010AT-100MR49
15	±20%	100	0.75	0.40	445-3220-1-ND	.90	.80	.70	445-3220-2-ND	2,000	350.00/M	VLF3010AT-150MR40
22	±20%	100	1.3	0.33	445-3221-1-ND	.90	.80	.70	445-3221-2-ND	2,000	350.00/M	VLF3010AT-220MR33
					Fig. 17 — VLF3010S Series							
1.0	±30%	1000	0.041	1.7	445-4545-1-ND	1.35	1.20	1.05	445-4545-2-ND	2,000	525.00/M	VLF3010ST-1R0N1R7
2.2	±20%	1000	0.077	1.1	445-4546-1-ND	1.35	1.20	1.05	445-4546-2-ND	2,000	525.00/M	VLF3010ST-2R2M1R1
3.3	±20%	1000	0.11	0.88	445-4547-1-ND	1.35	1.20	1.05	445-4547-2-ND	2,000	525.00/M	VLF3010ST-3R3MR88
4.7	±20%	1000	0.15	0.75	445-4548-1-ND	1.35	1.20	1.05	445-4548-2-ND	2,000	525.00/M	VLF3010ST-4R7MR75
6.8	±20%	1000	0.22	0.65	445-4549-1-ND	1.35	1.20	1.05	445-4549-2-ND	2,000	525.00/M	VLF3010ST-6R8MR65
10	±20%	1000	0.41	0.53	445-4550-1-ND	1.35	1.20	1.05	445-4550-2-ND	2,000	525.00/M	VLF3010ST-100MR53
15	±20%	1000	0.51	0.38	445-4551-1-ND	1.35	1.20	1.05	445-4551-2-ND	2,000	525.00/M	VLF3010ST-150MR38
22	±20%	1000	0.81	0.34	445-4552-1-ND	1.35	1.20	1.05	445-4552-2-ND	2,000	525.00/M	VLF3010ST-220MR34
					Fig. 16 — VLF3012A Series							
1.5	±30%	100	0.059	1.2	445-3222-1-ND	.86	.76	.67	445-3222-2-ND	2,000	333.00/M	VLF3012AT-1R5N1R2
2.2	±20%	100	0.088	1.0	445-3223-1-ND	.86	.76	.67	445-3223-2-ND	2,000	333.00/M	VLF3012AT-2R2M1R0
3.3	±20%	100	0.11	0.87	445-3224-1-ND	.86	.76	.67	445-3224-2-ND	2,000	333.00/M	VLF3012AT-3R3MR87

Fig. 12 — SPM6530

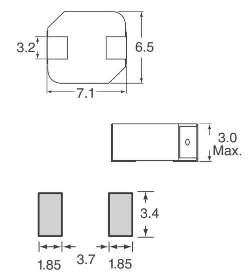

Fig. 13 — SPM10040

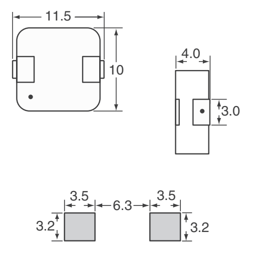

Fig. 14 — VLCF4018-2, VLCF4020

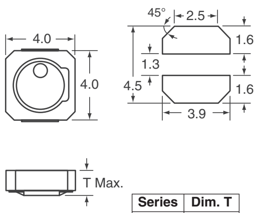

Series	Dim. T
4018-2	1.8
4020	2.0

Fig. 15 — VLCF5020, VLCF5020-1, VLCF5020-3

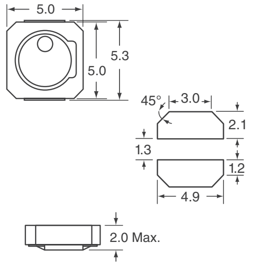

Fig. 16 — VLF3010A, VLF3012A, VLF3014A

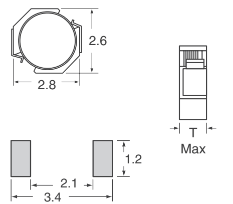

Series	Dim. T
3010A	1.0
3012A	1.2
3014A	1.4

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

(Continued)

Inductors — VLP, SLF, RLF, SPM, VLCF, VLF and VLS Series *(Cont.)*

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
4.7	±20%	100	0.16	0.74	445-3225-1-ND	.86	.76	.67	445-3225-2-ND	2,000	333.00/M	VLF3012AT-4R7MR74
6.8	±20%	100	0.23	0.59	445-3226-1-ND	.86	.76	.67	445-3226-2-ND	2,000	333.00/M	VLF3012AT-6R8MR59
10	±20%	100	0.36	0.49	445-3227-1-ND	.86	.76	.67	445-3227-2-ND	2,000	333.00/M	VLF3012AT-100MR49
15	±20%	100	0.54	0.41	445-3228-1-ND	.86	.76	.67	445-3228-2-ND	2,000	333.00/M	VLF3012AT-150MR41
22	±20%	100	0.66	0.33	445-3229-1-ND	.86	.76	.67	445-3229-2-ND	2,000	333.00/M	VLF3012AT-220MR33
33	±20%	100	1.1	0.27	445-3230-1-ND	.86	.76	.67	445-3230-2-ND	2,000	333.00/M	VLF3012AT-330MR27
47	±20%	100	1.9	0.22	445-3231-1-ND	.86	.76	.67	445-3231-2-ND	2,000	333.00/M	VLF3012AT-470MR22
Fig. 17 — VLF3012S Series												
1.0	±30%	1000	0.032	2.0	445-4199-1-ND	1.22	1.08	.95	445-4199-2-ND	2,000	473.00/M	VLF3012ST-1R0N2R0
2.2	±20%	1000	0.060	1.4	445-4200-1-ND	1.22	1.08	.95	445-4200-2-ND	2,000	473.00/M	VLF3012ST-2R2M1R4
3.3	±20%	1000	0.090	1.1	445-4201-1-ND	1.22	1.08	.95	445-4201-2-ND	2,000	473.00/M	VLF3012ST-3R3M1R1
4.7	±20%	1000	0.13	0.91	445-4202-1-ND	1.22	1.08	.95	445-4202-2-ND	2,000	473.00/M	VLF3012ST-4R7MR91
6.8	±20%	1000	0.18	0.78	445-4203-1-ND	1.22	1.08	.95	445-4203-2-ND	2,000	473.00/M	VLF3012ST-6R8MR78
10	±20%	1000	0.28	0.59	445-4204-1-ND	1.22	1.08	.95	445-4204-2-ND	2,000	473.00/M	VLF3012ST-100MR59
15	±20%	1000	0.41	0.49	445-4205-1-ND	1.22	1.08	.95	445-4205-2-ND	2,000	473.00/M	VLF3012ST-150MR49
22	±20%	1000	0.61	0.43	445-4206-1-ND	1.22	1.08	.95	445-4206-2-ND	2,000	473.00/M	VLF3012ST-220MR43
Fig. 16 — VLF3014A Series												
2.2	±20%	100	0.091	1.2	445-4177-1-ND	1.17	1.04	.91	445-4177-2-ND	2,000	455.00/M	VLF3014AT-2R2M1R2
3.3	±20%	100	0.13	1.0	445-4178-1-ND	1.17	1.04	.91	445-4178-2-ND	2,000	455.00/M	VLF3014AT-3R3M1R0
4.7	±20%	100	0.17	0.90	445-4179-1-ND	1.17	1.04	.91	445-4179-2-ND	2,000	455.00/M	VLF3014AT-4R7MR90
6.8	±20%	100	0.27	0.72	445-4180-1-ND	1.17	1.04	.91	445-4180-2-ND	2,000	455.00/M	VLF3014AT-6R8MR72
10	±20%	100	0.4	0.59	445-4181-1-ND	1.17	1.04	.91	445-4181-2-ND	2,000	455.00/M	VLF3014AT-100MR59
22	±20%	100	1.0	0.37	445-4182-1-ND	1.17	1.04	.91	445-4182-2-ND	2,000	455.00/M	VLF3014AT-220MR37
Fig. 18 — VLF4010A Series												
4.7	±20%	100	0.18	1.0	445-4183-1-ND	1.17	1.04	.91	445-4183-2-ND	1,000	455.00	VLF4010AT-4R7M1R0
6.8	±20%	100	0.28	0.81	445-4184-1-ND	1.17	1.04	.91	445-4184-2-ND	1,000	455.00	VLF4010AT-6R8MR81
10	±20%	100	0.42	0.64	445-4185-1-ND	1.17	1.04	.91	445-4185-2-ND	1,000	455.00	VLF4010AT-100MR64
Fig. 19 — VLF4010S Series												
1.0	±30%	1000	0.050	1.9	445-4207-1-ND	1.26	1.12	.98	445-4207-2-ND	1,000	490.00	VLF4010ST-1R0N1R9
2.2	±20%	1000	0.068	1.4	445-4208-1-ND	1.26	1.12	.98	445-4208-2-ND	1,000	490.00	VLF4010ST-2R2M1R4
3.3	±20%	1000	0.081	1.2	445-4209-1-ND	1.26	1.12	.98	445-4209-2-ND	1,000	490.00	VLF4010ST-3R3M1R2
4.7	±20%	1000	0.10	1.0	445-4210-1-ND	1.26	1.12	.98	445-4210-2-ND	1,000	490.00	VLF4010ST-4R7M1R0
6.8	±20%	1000	0.15	0.85	445-4211-1-ND	1.26	1.12	.98	445-4211-2-ND	1,000	490.00	VLF4010ST-6R8MR85
10	±20%	1000	0.25	0.80	445-4212-1-ND	1.26	1.12	.98	445-4212-2-ND	1,000	490.00	VLF4010ST-100MR80
Fig. 18 — VLF4012A Series												
1.5	±20%	100	0.069	1.6	445-3232-1-ND	.81	.72	.63	445-3232-2-ND	1,000	315.00	VLF4012AT-1R5M1R6
2.2	±20%	100	0.076	1.5	445-3233-1-ND	.81	.72	.63	445-3233-2-ND	1,000	315.00	VLF4012AT-2R2M1R5
3.3	±20%	100	0.1	1.3	445-3234-1-ND	.81	.72	.63	445-3234-2-ND	1,000	315.00	VLF4012AT-3R3M1R3
4.7	±20%	100	0.14	1.1	445-3235-1-ND	.81	.72	.63	445-3235-2-ND	1,000	315.00	VLF4012AT-4R7M1R1
6.8	±20%	100	0.2	0.96	445-3236-1-ND	.81	.72	.63	445-3236-2-ND	1,000	315.00	VLF4012AT-6R8MR96
10	±20%	100	0.3	0.79	445-3237-1-ND	.81	.72	.63	445-3237-2-ND	1,000	315.00	VLF4012AT-100MR79
15	±20%	100	0.46	0.63	445-3238-1-ND	.81	.72	.63	445-3238-2-ND	1,000	315.00	VLF4012AT-150MR63
22	±20%	100	0.71	0.51	445-3239-1-ND	.81	.72	.63	445-3239-2-ND	1,000	315.00	VLF4012AT-220MR51
33	±20%	100	1.2	0.39	445-3240-1-ND	.81	.72	.63	445-3240-2-ND	1,000	315.00	VLF4012AT-330MR39
47	±20%	100	2.0	0.30	445-3241-1-ND	.81	.72	.63	445-3241-2-ND	1,000	315.00	VLF4012AT-470MR30
Fig. 20 — VLF4012S Series												
1.0	±30%	1000	0.045	1.9	445-4213-1-ND	1.31	1.16	1.02	445-4213-2-ND	1,000	508.00	VLF4012ST-1R0N1R9
2.2	±20%	1000	0.097	1.3	445-4214-1-ND	1.31	1.16	1.02	445-4214-2-ND	1,000	508.00	VLF4012ST-2R2M1R3
3.3	±20%	1000	0.13	1.1	445-4215-1-ND	1.31	1.16	1.02	445-4215-2-ND	1,000	508.00	VLF4012ST-3R3M1R1
4.7	±20%	1000	0.16	1.0	445-4216-1-ND	1.31	1.16	1.02	445-4216-2-ND	1,000	508.00	VLF4012ST-4R7M1R0
6.8	±20%	1000	0.27	0.80	445-4217-1-ND	1.31	1.16	1.02	445-4217-2-ND	1,000	508.00	VLF4012ST-6R8MR80
10	±20%	1000	0.41	0.65	445-4218-1-ND	1.31	1.16	1.02	445-4218-2-ND	1,000	508.00	VLF4012ST-100MR65
Fig. 18 — VLF4014A Series												
4.7	±20%	100	0.14	1.1	445-4186-1-ND	1.22	1.08	.95	445-4186-2-ND	1,000	473.00	VLF4014AT-4R7M1R1
10	±20%	100	0.23	0.90	445-4187-1-ND	1.22	1.08	.95	445-4187-2-ND	1,000	473.00	VLF4014AT-100MR90
Fig. 20 — VLF4014S Series												
1.0	±30%	1000	0.041	2.3	445-4219-1-ND	1.35	1.20	1.05	445-4219-2-ND	1,000	525.00	VLF4014ST-1R0N2R3
2.2	±20%	1000	0.06	1.9	445-4220-1-ND	1.35	1.20	1.05	445-4220-2-ND	1,000	525.00	VLF4014ST-2R2M1R9
3.3	±20%	1000	0.089	1.6	445-4221-1-ND	1.35	1.20	1.05	445-4221-2-ND	1,000	525.00	VLF4014ST-3R3M1R6
4.7	±20%	1000	0.11	1.4	445-4222-1-ND	1.35	1.20	1.05	445-4222-2-ND	1,000	525.00	VLF4014ST-4R7M1R4
6.8	±20%	1000	0.16	1.2	445-4223-1-ND	1.35	1.20	1.05	445-4223-2-ND	1,000	525.00	VLF4014ST-6R8M1R2
10	±20%	1000	0.22	1.0	445-4224-1-ND	1.35	1.20	1.05	445-4224-2-ND	1,000	525.00	VLF4014ST-100M1R0
Fig. 22 — VLF5010A-2 Series												
10†	±20%	100	0.31	0.78	445-4553-1-ND	1.09	.98	.86	445-4553-2-ND	1,000	425.00	VLF5010AT-100MR78-2
15†	±20%	100	0.48	0.62	445-4554-1-ND	1.09	.98	.86	445-4554-2-ND	1,000	425.00	VLF5010AT-150MR62-2
22†	±20%	100	0.74	0.50	445-4555-1-ND	1.09	.98	.86	445-4555-2-ND	1,000	425.00	VLF5010AT-220MR50-2
33†	±20%	100	1.1	0.41	445-4556-1-ND	1.09	.98	.86	445-4556-2-ND	1,000	425.00	VLF5010AT-330MR41-2
Fig. 21 — VLF5010S Series												
1.0	±30%	1000	0.045	2.5	445-4225-1-ND	1.40	1.24	1.09	445-4225-2-ND	1,000	543.00	VLF5010ST-1R0N2R5
2.2	±20%	1000	0.064	2.0	445-4226-1-ND	1.40	1.24	1.09	445-4226-2-ND	1,000	543.00	VLF5010ST-2R2M2R0
3.3	±20%	1000	0.13	1.4	445-4227-1-ND	1.40	1.24	1.09	445-4227-2-ND	1,000	543.00	VLF5010ST-3R3M1R4
4.7	±20%	1000	0.15	1.3	445-4228-1-ND	1.40	1.24	1.09	445-4228-2-ND	1,000	543.00	VLF5010ST-4R7M1R3
6.8	±20%	1000	0.2	1.1	445-4229-1-ND	1.40	1.24	1.09	445-4229-2-ND	1,000	543.00	VLF5010ST-6R8M1R1
10	±20%	1000	0.31	0.94	445-4230-1-ND	1.40	1.24	1.09	445-4230-2-ND	1,000	543.00	VLF5010ST-100MR94
Fig. 22 — VLF5012A Series												
2.2	±20%	100	0.09	1.5	445-4188-1-ND	1.26	1.12	.98	445-4188-2-ND	1,000	490.00	VLF5012AT-2R2M1R5
3.3	±20%	100	0.12	1.3	445-4189-1-ND	1.26	1.12	.98	445-4189-2-ND	1,000	490.00	VLF5012AT-3R3M1R3
4.7	±20%	100	0.14	1.2	445-4190-1-ND	1.26	1.12	.98	445-4190-2-ND	1,000	490.00	VLF5012AT-4R7M1R2
6.8	±20%	100	0.17	1.0	445-4191-1-ND	1.26	1.12	.98	445-4191-2-ND	1,000	490.00	VLF5012AT-6R8M1R0
10	±20%	100	0.3	0.80	445-4192-1-ND	1.26	1.12	.98	445-4192-2-ND	1,000	490.00	VLF5012AT-100MR80
Fig. 21 — VLF5012S Series												
1.0	±30%	1000	0.042	2.5	445-4231-1-ND	1.44	1.28	1.12	445-4231-2-ND	1,000	560.00	VLF5012ST-1R0N2R5
2.2	±20%	1000	0.069	2.0	445-4232-1-ND	1.44	1.28	1.12	445-4232-2-ND	1,000	560.00	VLF5012ST-2R2M2R0
3.3	±20%	1000	0.095	1.7	445-4233-1-ND	1.44	1.28	1.12	445-4233-2-ND	1,000	560.00	VLF5012ST-3R3M1R7
4.7	±20%	1000	0.13	1.4	445-4234-1-ND	1.44	1.28	1.12	445-4234-2-ND	1,000	560.00	VLF5012ST-4R7M1R4
6.8	±20%	1000	0.18	1.2	445-4235-1-ND	1.44	1.28	1.12	445-4235-2-ND	1,000	560.00	VLF5012ST-6R8M1R2
10	±20%	1000	0.24	1.0	445-4236-1-ND	1.44	1.28	1.12	445-4236-2-ND	1,000	560.00	VLF5012ST-100M1R0
Fig. 22 — VLF5014A Series												
1.5	±20%	100	0.051	1.7	445-4193-1-ND	1.31	1.16	1.02	445-4193-2-ND	1,000	508.00	VLF5014AT-1R5M1R7
2.7	±20%	100	0.068	1.5	445-4194-1-ND	1.31	1.16	1.02	445-4194-2-ND	1,000	508.00	VLF5014AT-2R7M1R5
4.7	±20%	100	0.12	1.1	445-3242-1-ND	1.26	1.12	.98	445-3242-2-ND	1,000	490.00	VLF5014AT-4R7M1R1
6.8	±20%	100	0.16	0.99	445-3243-1-ND	1.26	1.12	.98	445-3243-2-ND	1,000	490.00	VLF5014AT-6R8MR99

Fig. 17 — VLF3010S, VLF3012S

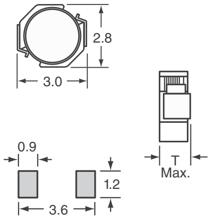

Series	Dim. T
3010S	1.0
3012S	1.2

Fig. 18 — VLF4010A, VLF4012A, VLF4014A

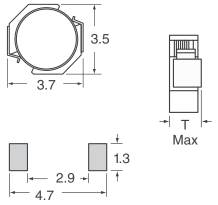

Series	Dim. T
4010A	1.0
4012A	1.2
4014A	1.4

Fig. 19 — VLF4010S

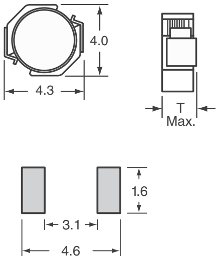

Series	Dim. T
4010S	1.0

Fig. 20 — VLF4012S, VLF4014S

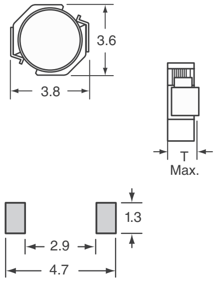

Series	Dim. T
4012S	1.2
4014S	1.4

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
10	±20%	100	0.19	0.92	445-3244-1-ND	1.26	1.12	.98	445-3244-2-ND	1,000	490.00	VLF5014AT-100MR92
15	±20%	100	0.28	0.76	445-3245-1-ND	1.26	1.12	.98	445-3245-2-ND	1,000	490.00	VLF5014AT-150MR76
22	±20%	100	0.40	0.62	445-4195-1-ND	1.31	1.16	1.02	445-4195-2-ND	1,000	508.00	VLF5014AT-220MR62
33	±20%	100	0.63	0.50	445-4196-1-ND	1.31	1.16	1.02	445-4196-2-ND	1,000	508.00	VLF5014AT-330MR50
47	±20%	100	0.95	0.41	445-4197-1-ND	1.31	1.16	1.02	445-4197-2-ND	1,000	508.00	VLF5014AT-470MR41
100	±20%	100	2.4	0.26	445-4198-1-ND	1.31	1.16	1.02	445-4198-2-ND	1,000	508.00	VLF5014AT-101MR26
Fig. 21 — VLF5014S Series												
1.0	±30%	1000	0.041	2.7	445-4237-1-ND	1.49	1.32	1.16	445-4237-2-ND	1,000	578.00	VLF5014ST-1R0N2R7
2.2	±20%	1000	0.059	2.3	445-4238-1-ND	1.49	1.32	1.16	445-4238-2-ND	1,000	578.00	VLF5014ST-2R2M2R3
3.3	±20%	1000	0.077	2.0	445-4239-1-ND	1.49	1.32	1.16	445-4239-2-ND	1,000	578.00	VLF5014ST-3R3M2R0
4.7	±20%	1000	0.098	1.7	445-4240-1-ND	1.49	1.32	1.16	445-4240-2-ND	1,000	578.00	VLF5014ST-4R7M1R7
6.8	±20%	1000	0.16	1.4	445-4241-1-ND	1.49	1.32	1.16	445-4241-2-ND	1,000	578.00	VLF5014ST-6R8M1R4
10	±20%	1000	0.21	1.2	445-4242-1-ND	1.49	1.32	1.16	445-4242-2-ND	1,000	578.00	VLF5014ST-100M1R2
Fig. 23 — VLF10040 Series												
1.0	±30%	100	0.0043	9.7	445-3556-1-ND	2.25	2.00	1.75	445-3556-2-ND	500	437.50	VLF10040T-1R0N9R7
1.5	±30%	100	0.0051	8.9	445-3557-1-ND	2.25	2.00	1.75	445-3557-2-ND	500	437.50	VLF10040T-1R5N8R9
2.2	±30%	100	0.0079	7.1	445-3558-1-ND	2.25	2.00	1.75	445-3558-2-ND	500	437.50	VLF10040T-2R2N7R1
3.3	±30%	100	0.0105	6.2	445-3559-1-ND	2.25	2.00	1.75	445-3559-2-ND	500	437.50	VLF10040T-3R3N6R2
4.7	±30%	100	0.0127	5.4	445-3560-1-ND	2.25	2.00	1.75	445-3560-2-ND	500	437.50	VLF10040T-4R7N5R4
6.8	±30%	100	0.0198	4.5	445-3561-1-ND	2.25	2.00	1.75	445-3561-2-ND	500	437.50	VLF10040T-6R8N4R5
10	±20%	100	0.028	3.8	445-3562-1-ND	2.25	2.00	1.75	445-3562-2-ND	500	437.50	VLF10040T-100M3R8
15	±20%	100	0.036	3.1	445-3563-1-ND	2.25	2.00	1.75	445-3563-2-ND	500	437.50	VLF10040T-150M3R1
22	±20%	100	0.05	2.5	445-3564-1-ND	2.25	2.00	1.75	445-3564-2-ND	500	437.50	VLF10040T-220M2R5
33	±20%	100	0.08	2.1	445-3565-1-ND	2.25	2.00	1.75	445-3565-2-ND	500	437.50	VLF10040T-330M2R1
47	±20%	100	0.108	1.7	445-3566-1-ND	2.25	2.00	1.75	445-3566-2-ND	500	437.50	VLF10040T-470M1R7
68	±20%	100	0.155	1.4	445-3567-1-ND	2.25	2.00	1.75	445-3567-2-ND	500	437.50	VLF10040T-680M1R4
100	±20%	100	0.216	1.2	445-3568-1-ND	2.25	2.00	1.75	445-3568-2-ND	500	437.50	VLF10040T-101M1R2
150	±20%	100	0.343	0.99	445-3569-1-ND	2.25	2.00	1.75	445-3569-2-ND	500	437.50	VLF10040T-151MR99
220	±20%	100	0.467	0.81	445-3570-1-ND	2.25	2.00	1.75	445-3570-2-ND	500	437.50	VLF10040T-221MR81
330	±20%	100	0.757	0.67	445-3571-1-ND	2.25	2.00	1.75	445-3571-2-ND	500	437.50	VLF10040T-331MR67
Fig. 23 — VLF10045 Series												
1.0	±30%	100	0.0046	10	445-3572-1-ND	2.25	2.00	1.75	445-3572-2-ND	500	437.50	VLF10045T-1R0N100
1.5	±30%	100	0.0057	9.0	445-3573-1-ND	2.48	2.20	1.93	445-3573-2-ND	500	481.50	VLF10045T-1R5N9R0
2.2	±30%	100	0.0085	7.4	445-3574-1-ND	2.48	2.20	1.93	445-3574-2-ND	500	481.50	VLF10045T-2R2N7R4
3.3	±30%	100	0.0097	6.9	445-3575-1-ND	2.48	2.20	1.93	445-3575-2-ND	500	481.50	VLF10045T-3R3N6R9
4.7	±30%	100	0.0125	6.1	445-3576-1-ND	2.48	2.20	1.93	445-3576-2-ND	500	481.50	VLF10045T-4R7N6R1
6.8	±30%	100	0.0178	5.1	445-3577-1-ND	2.48	2.20	1.93	445-3577-2-ND	500	481.50	VLF10045T-6R8N5R1
10	±20%	100	0.025	4.3	445-3578-1-ND	2.48	2.20	1.93	445-3578-2-ND	500	481.50	VLF10045T-100M4R3
15	±20%	100	0.0373	3.5	445-3579-1-ND	2.48	2.20	1.93	445-3579-2-ND	500	481.50	VLF10045T-150M3R5
22	±20%	100	0.0495	2.8	445-3580-1-ND	2.48	2.20	1.93	445-3580-2-ND	500	481.50	VLF10045T-220M2R8
33	±20%	100	0.0701	2.3	445-3581-1-ND	2.48	2.20	1.93	445-3581-2-ND	500	481.50	VLF10045T-330M2R3
47	±20%	100	0.0976	1.9	445-3582-1-ND	2.48	2.20	1.93	445-3582-2-ND	500	481.50	VLF10045T-470M1R9
68	±20%	100	0.158	1.6	445-3583-1-ND	2.48	2.20	1.93	445-3583-2-ND	500	481.50	VLF10045T-680M1R6
100	±20%	100	0.217	1.3	445-3584-1-ND	2.48	2.20	1.93	445-3584-2-ND	500	481.50	VLF10045T-101M1R3
150	±20%	100	0.306	1.1	445-3585-1-ND	2.48	2.20	1.93	445-3585-2-ND	500	481.50	VLF10045T-151M1R1
220	±20%	100	0.434	0.90	445-3586-1-ND	2.48	2.20	1.93	445-3586-2-ND	500	481.50	VLF10045T-221MR90
330	±20%	100	0.721	0.70	445-3587-1-ND	2.48	2.20	1.93	445-3587-2-ND	500	481.50	VLF10045T-331MR70
Fig. 24 — VLF12060 Series												
1.8	±30%	100	0.0036	12	445-3588-1-ND	2.93	2.60	2.28	445-3588-2-ND	500	569.00	VLF12060T-1R8N120
2.7	±30%	100	0.0053	10	445-3589-1-ND	2.93	2.60	2.28	445-3589-2-ND	500	569.00	VLF12060T-2R7N100
3.9	±30%	100	0.0070	9.0	445-3590-1-ND	2.93	2.60	2.28	445-3590-2-ND	500	569.00	VLF12060T-3R9N9R0
4.7	±30%	100	0.0096	7.7	445-3591-1-ND	2.93	2.60	2.28	445-3591-2-ND	500	569.00	VLF12060T-4R7N7R7
6.8	±30%	100	0.0109	7.2	445-3592-1-ND	2.93	2.60	2.28	445-3592-2-ND	500	569.00	VLF12060T-6R8N7R2
10	±20%	100	0.0139	6.2	445-3593-1-ND	2.93	2.60	2.28	445-3593-2-ND	500	569.00	VLF12060T-100M6R2
15	±20%	100	0.0223	5.0	445-3594-1-ND	2.93	2.60	2.28	445-3594-2-ND	500	569.00	VLF12060T-150M5R0
22	±20%	100	0.0314	4.1	445-3595-1-ND	2.93	2.60	2.28	445-3595-2-ND	500	569.00	VLF12060T-220M4R1
33	±20%	100	0.0461	3.4	445-3596-1-ND	2.93	2.60	2.28	445-3596-2-ND	500	569.00	VLF12060T-330M3R4
47	±20%	100	0.0622	2.8	445-3597-1-ND	2.93	2.60	2.28	445-3597-2-ND	500	569.00	VLF12060T-470M2R8
68	±20%	100	0.0875	2.3	445-3598-1-ND	2.93	2.60	2.28	445-3598-2-ND	500	569.00	VLF12060T-680M2R3
100	±20%	100	0.1324	1.9	445-3599-1-ND	2.93	2.60	2.28	445-3599-2-ND	500	569.00	VLF12060T-101M1R9
150	±20%	100	0.1871	1.6	445-3600-1-ND	2.93	2.60	2.28	445-3600-2-ND	500	569.00	VLF12060T-151M1R6
220	±20%	100	0.3068	1.3	445-3601-1-ND	2.93	2.60	2.28	445-3601-2-ND	500	569.00	VLF12060T-221M1R3
330	±20%	100	0.404	1.0	445-3602-1-ND	2.93	2.60	2.28	445-3602-2-ND	500	569.00	VLF12060T-331M1R0
Fig. 25 — VLS252010 Series												
0.47	±30%	1000	0.04	2.3	445-4243-1-ND	.83	.74	.65	445-4243-2-ND	2,000	323.00/M	VLS252010T-R47N
0.68	±30%	1000	0.053	2.0	445-4244-1-ND	.83	.74	.65	445-4244-2-ND	2,000	323.00/M	VLS252010T-R68N
1.0	±30%	1000	0.071	1.7	445-4245-1-ND	.83	.74	.65	445-4245-2-ND	2,000	323.00/M	VLS252010T-1R0N
1.5	±30%	1000	0.107	1.4	445-4246-1-ND	.83	.74	.65	445-4246-2-ND	2,000	323.00/M	VLS252010T-1R5N
2.2	±20%	1000	0.158	1.1	445-4247-1-ND	.83	.74	.65	445-4247-2-ND	2,000	323.00/M	VLS252010T-2R2M
3.3	±20%	1000	0.253	0.94	445-4248-1-ND	.83	.74	.65	445-4248-2-ND	2,000	323.00/M	VLS252010T-3R3M
4.7	±20%	1000	0.367	0.78	445-4249-1-ND	.83	.74	.65	445-4249-2-ND	2,000	323.00/M	VLS252010T-4R7M
6.8	±20%	1000	0.451	0.70	445-4250-1-ND	.83	.74	.65	445-4250-2-ND	2,000	323.00/M	VLS252010T-6R8M
10	±20%	1000	0.172	0.52	445-4251-1-ND	.83	.74	.65	445-4251-2-ND	2,000	323.00/M	VLS252010T-100M
Fig. 25 — VLS252012 Series												
0.47	±30%	1000	0.047	2.1	445-3667-1-ND	.83	.74	.65	445-3667-2-ND	2,000	323.00/M	VLS252012T-R47N2R1
1.0	±30%	1000	0.073	1.7	445-3668-1-ND	.83	.74	.65	445-3668-2-ND	2,000	323.00/M	VLS252012T-1R0N1R7
1.5	±30%	1000	0.105	1.4	445-3669-1-ND	.83	.74	.65	445-3669-2-ND	2,000	323.00/M	VLS252012T-1R5N1R4
2.2	±20%	1000	0.129	1.3	445-3670-1-ND	.83	.74	.65	445-3670-2-ND	2,000	323.00/M	VLS252012T-2R2M1R3
3.3	±20%	1000	0.227	0.99	445-3671-1-ND	.83	.74	.65	445-3671-2-ND	2,000	323.00/M	VLS252012T-3R3MR99
4.7	±20%	1000	0.338	0.81	445-3672-1-ND	.83	.74	.65	445-3672-2-ND	2,000	323.00/M	VLS252012T-4R7MR81
6.8	±20%	1000	0.510	0.66	445-3673-1-ND	.83	.74	.65	445-3673-2-ND	2,000	323.00/M	VLS252012T-6R8MR66
10	±20%	1000	0.630	0.59	445-3674-1-ND	.83	.74	.65	445-3674-2-ND	2,000	323.00/M	VLS252012T-100MR59
Fig. 25 — VLS252015 Series												
1.0	±30%	1000	0.068	1.7	445-3675-1-ND	.83	.74	.65	445-3675-2-ND	2,000	323.00/M	VLS252015T-1R0N1R7
1.5	±30%	1000	0.1	1.4	445-3676-1-ND	.83	.74	.65	445-3676-2-ND	2,000	323.00/M	VLS252015T-1R5N1R4
2.2	±20%	1000	0.133	1.2	445-3677-1-ND	.83	.74	.65	445-3677-2-ND	2,000	323.00/M	VLS252015T-2R2M1R2
3.3	±20%	1000	0.182	1.0	445-3678-1-ND	.83	.74	.65	445-3678-2-ND	2,000	323.00/M	VLS252015T-3R3M1R0
4.7	±20%	1000	0.265	0.89	445-3679-1-ND	.83	.74	.65	445-3679-2-ND	2,000	323.00/M	VLS252015T-4R7MR89
6.8	±20%	1000	0.4	0.73	445-3680-1-ND	.83	.74	.65	445-3680-2-ND	2,000	323.00/M	VLS252015T-6R8MR73
10	±20%	1000	0.49	0.66	445-3681-1-ND	.83	.74	.65	445-3681-2-ND	2,000	323.00/M	VLS252015T-100MR66

Fig. 21 — VLF5010S, VLF5012S, VLF5014S

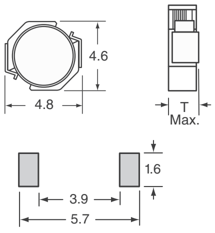

Series	Dim. T
5010S	1.0
5012S	1.2
5014S	1.4

Fig. 22 — VLF5010A-2, VLF5012A, VLF5014A

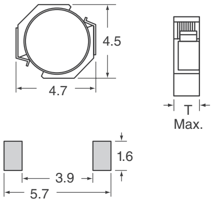

Series	Dim. T
5010A	1.0
5012A	1.2
5014A	1.4

Fig. 23 — VLF10040, VLF10045

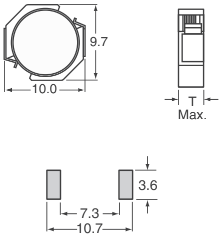

Series	Dim. T
10040	4.0
10045	4.5

Fig. 24 — VLF12060

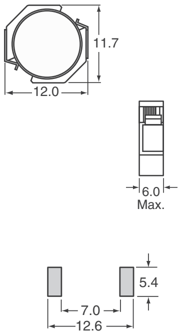

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

(Continued)

Inductors — VLP, SLF, RLF, SPM, VLCF, VLF and VLS Series *(Cont.)*

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Fig. 26 — VLS3010 Series												
1.0	±30%	1000	0.060	1.9	445-4252-1-ND	.71	.63	.55	445-4252-2-ND	2,000	274.00/M	VLS3010T-1R0N1R9
1.5	±30%	1000	0.071	1.6	445-4253-1-ND	.71	.63	.55	445-4253-2-ND	2,000	274.00/M	VLS3010T-1R5N1R6
2.2	±20%	1000	0.097	1.3	445-4254-1-ND	.71	.63	.55	445-4254-2-ND	2,000	274.00/M	VLS3010T-2R2M1R3
3.3	±20%	1000	0.13	1.1	445-4255-1-ND	.71	.63	.55	445-4255-2-ND	2,000	274.00/M	VLS3010T-3R3M1R1
4.7	±20%	1000	0.17	0.80	445-4256-1-ND	.71	.63	.55	445-4256-2-ND	2,000	274.00/M	VLS3010T-4R7MR80
6.8	±20%	1000	0.26	0.75	445-4257-1-ND	.71	.63	.55	445-4257-2-ND	2,000	274.00/M	VLS3010T-6R8MR75
10	±20%	1000	0.39	0.65	445-4258-1-ND	.71	.63	.55	445-4258-2-ND	2,000	274.00/M	VLS3010T-100MR65
15	±20%	1000	0.51	0.55	445-4259-1-ND	.71	.63	.55	445-4259-2-ND	2,000	274.00/M	VLS3010T-150MR55
22	±20%	1000	0.75	0.46	445-4260-1-ND	.71	.63	.55	445-4260-2-ND	2,000	274.00/M	VLS3010T-220MR46
Fig. 26 — VLS3012 Series												
1.0	±30%	1000	0.058	2.2	445-3682-1-ND	.71	.63	.55	445-3682-2-ND	2,000	274.00/M	VLS3012T-1R0N2R2
1.5	±30%	1000	0.068	1.7	445-3683-1-ND	.71	.63	.55	445-3683-2-ND	2,000	274.00/M	VLS3012T-1R5N1R7
2.2	±20%	1000	0.082	1.5	445-3684-1-ND	.71	.63	.55	445-3684-2-ND	2,000	274.00/M	VLS3012T-2R2M1R5
3.3	±20%	1000	0.1	1.3	445-3685-1-ND	.71	.63	.55	445-3685-2-ND	2,000	274.00/M	VLS3012T-3R3M1R3
4.7	±20%	1000	0.13	1.0	445-3686-1-ND	.71	.63	.55	445-3686-2-ND	2,000	274.00/M	VLS3012T-4R7M1R0
6.8	±20%	1000	0.19	0.90	445-3687-1-ND	.71	.63	.55	445-3687-2-ND	2,000	274.00/M	VLS3012T-6R8MR90
10	±20%	1000	0.28	0.72	445-3688-1-ND	.71	.63	.55	445-3688-2-ND	2,000	274.00/M	VLS3012T-100MR72
15	±20%	1000	0.44	0.58	445-3689-1-ND	.71	.63	.55	445-3689-2-ND	2,000	274.00/M	VLS3012T-150MR58
22	±20%	1000	0.63	0.49	445-3690-1-ND	.71	.63	.55	445-3690-2-ND	2,000	274.00/M	VLS3012T-220MR49
33	±20%	1000	1.04	0.40	445-3691-1-ND	.71	.63	.55	445-3691-2-ND	2,000	274.00/M	VLS3012T-330MR40
47	±20%	1000	1.26	0.34	445-3692-1-ND	.71	.63	.55	445-3692-2-ND	2,000	274.00/M	VLS3012T-470MR34
Fig. 26 — VLS3015 Series												
1.0	±30%	1000	0.048	2.0	445-3693-1-ND	.71	.63	.55	445-3693-2-ND	2,000	274.00/M	VLS3015T-1R0N2R0
1.5	±30%	1000	0.062	1.6	445-3694-1-ND	.71	.63	.55	445-3694-2-ND	2,000	274.00/M	VLS3015T-1R5N1R6
2.2	±20%	1000	0.07	1.4	445-3695-1-ND	.71	.63	.55	445-3695-2-ND	2,000	274.00/M	VLS3015T-2R2M1R4
3.3	±20%	1000	0.093	1.2	445-3696-1-ND	.71	.63	.55	445-3696-2-ND	2,000	274.00/M	VLS3015T-3R3M1R2
4.7	±20%	1000	0.113	0.99	445-3697-1-ND	.71	.63	.55	445-3697-2-ND	2,000	274.00/M	VLS3015T-4R7MR99
6.8	±20%	1000	0.176	0.86	445-3698-1-ND	.71	.63	.55	445-3698-2-ND	2,000	274.00/M	VLS3015T-6R8MR86
10	±20%	1000	0.234	0.70	445-3699-1-ND	.71	.63	.55	445-3699-2-ND	2,000	274.00/M	VLS3015T-100MR70
15	±20%	1000	0.352	0.58	445-3700-1-ND	.71	.63	.55	445-3700-2-ND	2,000	274.00/M	VLS3015T-150MR58
22	±20%	1000	0.518	0.45	445-3701-1-ND	.71	.63	.55	445-3701-2-ND	2,000	274.00/M	VLS3015T-220MR45
33	±20%	1000	0.799	0.36	445-3702-1-ND	.71	.63	.55	445-3702-2-ND	2,000	274.00/M	VLS3015T-330MR36
47	±20%	1000	1.172	0.31	445-3703-1-ND	.71	.63	.55	445-3703-2-ND	2,000	274.00/M	VLS3015T-470MR31
Fig. 27 — VLS4012 Series												
1.0	±30%	1000	0.05	1.6	445-3704-1-ND	.76	.68	.59	445-3704-2-ND	1,000	294.00	VLS4012T-1R0N1R6
1.5	±30%	1000	0.06	1.5	445-3705-1-ND	.76	.68	.59	445-3705-2-ND	1,000	294.00	VLS4012T-1R5N1R5
2.2	±20%	1000	0.07	1.4	445-3706-1-ND	.76	.68	.59	445-3706-2-ND	1,000	294.00	VLS4012T-2R2M1R4
3.3	±20%	1000	0.085	1.2	445-3707-1-ND	.76	.68	.59	445-3707-2-ND	1,000	294.00	VLS4012T-3R3M1R2
4.7	±20%	1000	0.11	1.1	445-3708-1-ND	.76	.68	.59	445-3708-2-ND	1,000	294.00	VLS4012T-4R7M1R1
6.8	±20%	1000	0.13	1.0	445-3709-1-ND	.76	.68	.59	445-3709-2-ND	1,000	294.00	VLS4012T-6R8M1R0
10	±20%	1000	0.2	0.82	445-3710-1-ND	.76	.68	.59	445-3710-2-ND	1,000	294.00	VLS4012T-100MR82
15	±20%	1000	0.31	0.65	445-3711-1-ND	.76	.68	.59	445-3711-2-ND	1,000	294.00	VLS4012T-150MR65
22	±20%	1000	0.41	0.57	445-3712-1-ND	.76	.68	.59	445-3712-2-ND	1,000	294.00	VLS4012T-220MR57
33	±20%	1000	0.68	0.44	445-3713-1-ND	.76	.68	.59	445-3713-2-ND	1,000	294.00	VLS4012T-330MR44
47	±20%	1000	0.85	0.39	445-3714-1-ND	.76	.68	.59	445-3714-2-ND	1,000	294.00	VLS4012T-470MR39

‡ Operating Temperature Range -40°C ~ 125°C † Inductance is at ½ Idc1 power distribution.

Fig. 25 — VLS252010, VLS252012, VLS252015

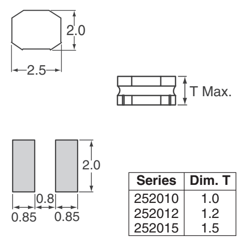

Series	Dim. T
252010	1.0
252012	1.2
252015	1.5

Fig. 26 — VLS3010, VLS3012, VLS3015

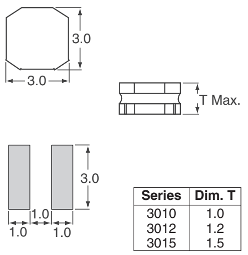

Series	Dim. T
3010	1.0
3012	1.2
3015	1.5

Fig. 27 — VLS4012

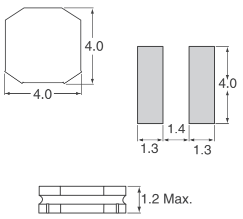

Inductors – TSL and SL Series Radial Leaded

TSL series:
The TSL series features low DC resistance and high current handling capacities, making them ideal for power supply line applications. These parts are manufactured to a high degree of dimensional accuracy using non-flammable material (UL94V-0). **Specifications:** • Operating temperature range: -40°C ~ 85°C (including self-temperature rise) **SL Series Features:** • Low RDC • Best for the power supply line **Specifications:** • Operating temperature range: -40°C ~ 85°C

Fig. 1

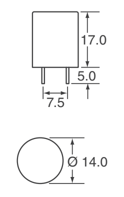

Fig. 2

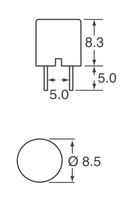

Fig. 3

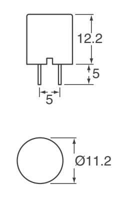

Fig. 4

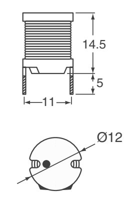

Fig. 5

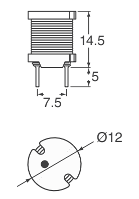

Fig. 6

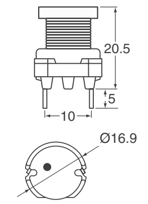

Fig. 7

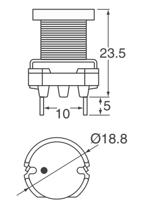

Fig. 8

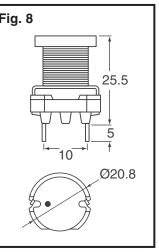

Fig.	Inductance (µH)	Maximum Current Rating (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Ammo Pack Qty.	Pricing	TDK Part No.
TSL Series											
1	10	5.1	0.023	445-3722-1-ND	5.70	4.75	3.80	445-3722-3-ND	200	332.50	TSL1315RA-100K5R1-PF
	15	4.5	0.028	445-3723-1-ND	5.70	4.75	3.80	445-3723-3-ND	200	332.50	TSL1315RA-150K4R5-PF
	22	4.2	0.035	445-3724-1-ND	5.70	4.75	3.80	445-3724-3-ND	200	332.50	TSL1315RA-220K4R2-PF
	33	3.7	0.043	445-3725-1-ND	5.70	4.75	3.80	445-3725-3-ND	200	332.50	TSL1315RA-330K3R7-PF
	47	3.4	0.052	445-3726-1-ND	5.70	4.75	3.80	445-3726-3-ND	200	332.50	TSL1315RA-470K3R4-PF
	68	3.0	0.068	445-3727-1-ND	5.70	4.75	3.80	445-3727-3-ND	200	332.50	TSL1315RA-680K3R0-PF
	100	2.5	0.097	445-3728-1-ND	5.70	4.75	3.80	445-3728-3-ND	200	332.50	TSL1315RA-101K2R5-PF
	150	2.1	0.14	445-3729-1-ND	5.70	4.75	3.80	445-3729-3-ND	200	332.50	TSL1315RA-151K2R1-PF
	220	1.7	0.2	445-3730-1-ND	5.70	4.75	3.80	445-3730-3-ND	200	332.50	TSL1315RA-221K1R7-PF
	330	1.4	0.3	445-3731-1-ND	5.70	4.75	3.80	445-3731-3-ND	200	332.50	TSL1315RA-331K1R4-PF
	470	1.1	0.43	445-3732-1-ND	5.70	4.75	3.80	445-3732-3-ND	200	332.50	TSL1315RA-471K1R1-PF
	680	0.99	0.61	445-3733-1-ND	5.70	4.75	3.80	445-3733-3-ND	200	332.50	TSL1315RA-681KR99-PF
	1000	0.78	1.0	445-3734-1-ND	5.70	4.75	3.80	445-3734-3-ND	200	332.50	TSL1315RA-102JR78-PF
	1500	0.68	1.3	445-3883-1-ND	5.70	4.75	3.80	445-3883-3-ND	200	332.50	TSL1315RA-152JR68-PF
	2200	0.55	2.0	445-3735-1-ND	5.70	4.75	3.80	445-3735-3-ND	200	332.50	TSL1315RA-222JR55-PF
	3300	0.44	3.1	445-3736-1-ND	5.70	4.75	3.80	445-3736-3-ND	200	332.50	TSL1315RA-332JR44-PF
	4700	0.37	4.4	445-3737-1-ND	5.70	4.75	3.80	445-3737-3-ND	200	332.50	TSL1315RA-472JR37-PF

‡ Bulk

(Continued)

Fig.	Inductance (µH)	Maximum Current Rating (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Ammo Pack		TDK Part No.
					1	10	100		Qty.	Pricing	
1	6800	0.30	6.5	445-3738-1-ND	5.70	4.75	3.80	445-3738-3-ND	200	332.50	TSL1315RA-682JR30-PF
	10,000	0.24	10	445-3739-1-ND	5.70	4.75	3.80	445-3739-3-ND	200	332.50	TSL1315RA-103JR24-PF
2	2.2	3.9	0.015	445-3740-1-ND	1.80	1.50	1.20	445-3740-3-ND	1,000	525.00	TSL0808RA-2R2M3R9-PF
	3.3	3.8	0.017	445-3741-1-ND	1.80	1.50	1.20	445-3741-3-ND	1,000	525.00	TSL0808RA-3R3M3R8-PF
	4.7	3.5	0.021	445-3742-1-ND	1.80	1.50	1.20	445-3742-3-ND	1,000	525.00	TSL0808RA-4R7M3R5-PF
	6.8	3.1	0.025	445-3743-1-ND	1.80	1.50	1.20	445-3743-3-ND	1,000	525.00	TSL0808RA-6R8M3R1-PF
	10	2.6	0.031	445-3744-1-ND	1.80	1.50	1.20	445-3744-3-ND	1,000	525.00	TSL0808RA-100K2R6-PF
	15	2.1	0.042	445-3745-1-ND	1.80	1.50	1.20	445-3745-3-ND	1,000	525.00	TSL0808RA-150K2R1-PF
	22	1.7	0.07	445-3746-1-ND	1.80	1.50	1.20	445-3746-3-ND	1,000	525.00	TSL0808RA-220K1R7-PF
	33	1.4	0.092	445-3747-1-ND	1.80	1.50	1.20	445-3747-3-ND	1,000	525.00	TSL0808RA-330K1R4-PF
	47	1.2	0.13	445-3748-1-ND	1.80	1.50	1.20	445-3748-3-ND	1,000	525.00	TSL0808RA-470K1R2-PF
	68	1.0	0.16	445-3749-1-ND	1.80	1.50	1.20	445-3749-3-ND	1,000	525.00	TSL0808RA-680K1R0-PF
	100	0.80	0.25	445-3750-1-ND	1.80	1.50	1.20	445-3750-3-ND	1,000	525.00	TSL0808RA-101KR80-PF
	150	0.67	0.4	445-3751-1-ND	1.80	1.50	1.20	445-3751-3-ND	1,000	525.00	TSL0808RA-151KR67-PF
	220	0.54	0.53	445-3752-1-ND	1.80	1.50	1.20	445-3752-3-ND	1,000	525.00	TSL0808RA-221KR54-PF
	330	0.45	0.78	445-3753-1-ND	1.80	1.50	1.20	445-3753-3-ND	1,000	525.00	TSL0808RA-331KR45-PF
	470	0.38	1.0	445-3754-1-ND	1.80	1.50	1.20	445-3754-3-ND	1,000	525.00	TSL0808RA-471KR38-PF
	680	0.32	1.5	445-3755-1-ND	1.80	1.50	1.20	445-3755-3-ND	1,000	525.00	TSL0808RA-681KR32-PF
	1000	0.26	2.2	445-3756-1-ND	1.80	1.50	1.20	445-3756-3-ND	1,000	525.00	TSL0808RA-102KR26-PF
	1500	0.21	3.5	445-3757-1-ND	1.80	1.50	1.20	445-3757-3-ND	1,000	525.00	TSL0808RA-152KR21-PF
	2200	0.17	6.4	445-3758-1-ND	1.80	1.50	1.20	445-3758-3-ND	1,000	525.00	TSL0808RA-222KR17-PF
	3300	0.14	8.5	445-3759-1-ND	1.80	1.50	1.20	445-3759-3-ND	1,000	525.00	TSL0808RA-332KR14-PF
	4700	0.13	12.2	445-3760-1-ND	1.80	1.50	1.20	445-3760-3-ND	1,000	525.00	TSL0808RA-472JR13-PF
3	1.0	7.7	0.058	445-3761-1-ND	3.00	2.50	2.00	445-3761-3-ND	500	437.50	TSL1112RA-1R0M7R7-PF
	2.2	6.7	0.073	445-3762-1-ND	3.00	2.50	2.00	445-3762-3-ND	500	437.50	TSL1112RA-2R2M6R7-PF
	3.3	5.9	0.01	445-3763-1-ND	3.00	2.50	2.00	445-3763-3-ND	500	437.50	TSL1112RA-3R3M5R9-PF
	4.7	4.8	0.015	445-3764-1-ND	3.00	2.50	2.00	445-3764-3-ND	500	437.50	TSL1112RA-4R7M4R8-PF
	6.8	4.6	0.016	445-3765-1-ND	3.00	2.50	2.00	445-3765-3-ND	500	437.50	TSL1112RA-6R8M4R6-PF
	10	3.7	0.025	445-3766-1-ND	3.00	2.50	2.00	445-3766-3-ND	500	437.50	TSL1112RA-100M3R7-PF
	15	3.4	0.029	445-3767-1-ND	3.00	2.50	2.00	445-3767-3-ND	500	437.50	TSL1112RA-150M3R4-PF
	22	2.9	0.04	445-3768-1-ND	3.00	2.50	2.00	445-3768-3-ND	500	437.50	TSL1112RA-220K2R9-PF
	33	2.3	0.062	445-3769-1-ND	3.00	2.50	2.00	445-3769-3-ND	500	437.50	TSL1112RA-330K2R3-PF
	47	2.1	0.075	445-3770-1-ND	3.00	2.50	2.00	445-3770-3-ND	500	437.50	TSL1112RA-470K2R1-PF
	68	1.6	0.13	445-3771-1-ND	3.00	2.50	2.00	445-3771-3-ND	500	437.50	TSL1112RA-680K1R6-PF
	100	1.4	0.16	445-3772-1-ND	3.00	2.50	2.00	445-3772-3-ND	500	437.50	TSL1112RA-101K1R4-PF
	150	1.1	0.26	445-3773-1-ND	3.00	2.50	2.00	445-3773-3-ND	500	437.50	TSL1112RA-151K1R1-PF
	220	1.0	0.33	445-3774-1-ND	3.00	2.50	2.00	445-3774-3-ND	500	437.50	TSL1112RA-221K1R0-PF
	330	0.82	0.52	445-3775-1-ND	3.00	2.50	2.00	445-3775-3-ND	500	437.50	TSL1112RA-331KR82-PF
	470	0.72	0.66	445-3776-1-ND	3.00	2.50	2.00	445-3776-3-ND	500	437.50	TSL1112RA-471KR72-PF
	680	0.56	1.1	445-3777-1-ND	3.00	2.50	2.00	445-3777-3-ND	500	437.50	TSL1112RA-681KR56-PF
	1000	0.50	1.4	445-3778-1-ND	3.00	2.50	2.00	445-3778-3-ND	500	437.50	TSL1112RA-102JR50-PF
	1500	0.38	2.4	445-3779-1-ND	3.00	2.50	2.00	445-3779-3-ND	500	437.50	TSL1112RA-152JR38-PF
	2200	0.33	3.2	445-3780-1-ND	3.00	2.50	2.00	445-3780-3-ND	500	437.50	TSL1112RA-222JR33-PF
	3300	0.26	4.9	445-3781-1-ND	3.00	2.50	2.00	445-3781-3-ND	500	437.50	TSL1112RA-332JR26-PF
	4700	0.21	7.6	445-3782-1-ND	3.00	2.50	2.00	445-3782-3-ND	500	437.50	TSL1112RA-472JR21-PF
	6800	0.18	9.8	445-3783-1-ND	3.00	2.50	2.00	445-3783-3-ND	500	437.50	TSL1112RA-682JR18-PF
	10,000	0.14	18	445-3784-1-ND	3.00	2.50	2.00	445-3784-3-ND	500	437.50	TSL1112RA-103JR14-PF
	15,000	0.12	24	445-3785-1-ND	3.00	2.50	2.00	445-3785-3-ND	500	437.50	TSL1112RA-153JR12-PF
SL Series											
4	10	3.6	0.019	445-3786-ND‡	3.80	3.09	2.38	—	—	—	SL1215-100K3R6-PF
	15	3.3	0.022	445-3787-ND‡	3.80	3.09	2.38	—	—	—	SL1215-150K3R3-PF
	22	2.8	0.031	445-3788-ND‡	3.80	3.09	2.38	—	—	—	SL1215-220K2R8-PF
	33	2.3	0.044	445-3789-ND‡	3.80	3.09	2.38	—	—	—	SL1215-330K2R3-PF
	47	2.0	0.059	445-3790-ND‡	3.80	3.09	2.38	—	—	—	SL1215-470K2R0-PF
	68	1.8	0.073	445-3791-ND‡	3.80	3.09	2.38	—	—	—	SL1215-680K1R8-PF
	100	1.5	0.1	445-3792-ND‡	3.80	3.09	2.38	—	—	—	SL1215-101K1R5-PF
5	150	1.3	0.15	445-3793-ND‡	3.80	3.09	2.38	—	—	—	SL1215-151K1R3-PF
	220	1.0	0.26	445-3794-ND‡	3.80	3.09	2.38	—	—	—	SL1215-221K1R0-PF
	330	0.91	0.32	445-3795-ND‡	3.80	3.09	2.38	—	—	—	SL1215-331KR91-PF
	470	0.72	0.48	445-3796-ND‡	3.80	3.09	2.38	—	—	—	SL1215-471KR72-PF
	680	0.58	0.73	445-3797-ND‡	3.80	3.09	2.38	—	—	—	SL1215-681KR58-PF
	1000	0.51	0.96	445-3798-ND‡	3.80	3.09	2.38	—	—	—	SL1215-102KR51-PF
	1500	0.42	1.4	445-3799-ND‡	3.80	3.09	2.38	—	—	—	SL1215-152KR42-PF
	2200	0.31	2.5	445-3800-ND‡	3.80	3.09	2.38	—	—	—	SL1215-222KR31-PF
	3300	0.27	3.3	445-3801-ND‡	3.80	3.09	2.38	—	—	—	SL1215-332KR27-PF
	5600	0.20	6.4	445-3802-ND‡	3.80	3.09	2.38	—	—	—	SL1215-562KR20-PF
6	150	2.1	0.1	445-3803-ND‡	7.80	6.34	4.88	—	—	—	SL1720-151K2R1-PF
	220	1.8	0.13	445-3804-ND‡	7.80	6.34	4.88	—	—	—	SL1720-221K1R8-PF
	330	1.5	0.18	445-3805-ND‡	7.80	6.34	4.88	—	—	—	SL1720-331K1R5-PF
	470	1.3	0.27	445-3806-ND‡	7.80	6.34	4.88	—	—	—	SL1720-471K1R3-PF
	680	1.0	0.38	445-3807-ND‡	7.80	6.34	4.88	—	—	—	SL1720-681K1R0-PF
	1000	0.90	0.54	445-3808-ND‡	7.80	6.34	4.88	—	—	—	SL1720-102KR90-PF
	1500	0.72	0.86	445-3809-ND‡	7.80	6.34	4.88	—	—	—	SL1720-152KR72-PF
	2200	0.60	1.22	445-3810-ND‡	7.80	6.34	4.88	—	—	—	SL1720-222KR60-PF
7	470	1.5	0.2	445-3811-ND‡	7.80	6.34	4.88	—	—	—	SL1923-471K1R5-PF
	680	1.3	0.29	445-3812-ND‡	7.80	6.34	4.88	—	—	—	SL1923-681K1R3-PF
	1000	1.1	0.41	445-3813-ND‡	7.80	6.34	4.88	—	—	—	SL1923-102K1R1-PF
	2200	0.70	1.0	445-3814-ND‡	7.80	6.34	4.88	—	—	—	SL1923-222KR70-PF
	10,000	0.33	4.3	445-3815-ND‡	7.80	6.34	4.88	—	—	—	SL1923-103KR33-PF
	15,000	0.26	7.1	445-3816-ND‡	7.80	6.34	4.88	—	—	—	SL1923-153KR26-PF
8	1000	1.3	0.35	445-3817-ND‡	7.80	6.34	4.88	—	—	—	SL2125-102K1R3-PF
	1500	0.99	0.61	445-3818-ND‡	7.80	6.34	4.88	—	—	—	SL2125-152KR99-PF
	2200	0.87	0.78	445-3819-ND‡	7.80	6.34	4.88	—	—	—	SL2125-222KR87-PF
	3300	0.72	1.15	445-3820-ND‡	7.80	6.34	4.88	—	—	—	SL2125-332KR72-PF
	4700	0.59	1.71	445-3821-ND‡	7.80	6.34	4.88	—	—	—	SL2125-472KR59-PF
	6800	0.47	2.61	445-3822-ND‡	7.80	6.34	4.88	—	—	—	SL2125-682KR47-PF
	10,000	0.41	3.41	445-3823-ND‡	7.80	6.34	4.88	—	—	—	SL2125-103KR41-PF

‡ Bulk

AlfaMag Electronics

Inductors for National Simple Switcher™

Digi-Reel® RoHS COMPLIANT

Features:

- High energy storage with minimum saturation • High stability from no load to full load

Electrical specifications at 25°C Operating Temperature Range: -40°C ~ 125°C **Test Frequency:** Inductance measured at 10kHz/10mV

50kHz Inductors are compatible with National Simple Switcher part numbers LM2574, LM2475, and LM2576. Inductance will be typical for the I_{DC} and ET_{OP} values listed.

150kHz Inductors are compatible with National Simple Switcher part numbers LM259X-L1 through LM259X-L44 and LM258X-L.

Size Code	Dimensions - Inches ±0.01 (mm ±0.25) C	D	E	X = Coil O.D.+
C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.110 (2.80)
C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.60)	0.110 (2.80)
C4	0.949 (24.1)	0.598 (15.2)	0.449 (11.4)	0.110 (2.80)
C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	0.130 (3.30)

Size Code	Dimensions - Inches ±0.010 (mm ±0.25) A	B	C	D
S1	0.339 (8.6)	0.339 (8.6)	0.205 (5.2)	0.268 (6.9)
S2	0.433 (11.0)	0.441 (11.2)	0.291 (7.4)	0.358 (9.1)
S3	0.551 (14.0)	0.559 (14.2)	0.327 (8.3)	0.461 (11.7)
S4	0.591 (15.0)	0.614 (15.6)	0.376 (9.6)	0.508 (12.9)
S5	0.669 (17.0)	0.701 (17.8)	0.438 (11.13)	0.591 (15.0)
S6	0.925 (23.5)	0.957 (24.3)	0.555 (14.1)	0.843 (21.4)
SH6A	0.925 (23.5)	0.957 (24.3)	0.402 (10.2)	0.843 (21.4)
SHC7	1.000 (25.4)	1.213 (30.8)	0.465 (11.8)	1.100 (27.94)
T1	0.339 (8.6)	0.339 (8.6)	0.201 (5.1)	0.250 (6.35)
T2	0.433 (11.0)	0.441 (11.2)	0.280 (7.1)	0.300 (7.62)
T3	0.551 (14.0)	0.559 (14.2)	0.311 (7.9)	0.375 (9.52)
T4	0.591 (15.0)	0.614 (15.6)	0.358 (9.1)	0.300 (7.62)
T5	0.669 (17.0)	0.701 (17.8)	0.409 (10.4)	0.600 (15.24)
TH6A	0.925 (23.5)	0.957 (24.3)	0.386 (9.8)	0.650 (16.51)

B Series — Base Mount

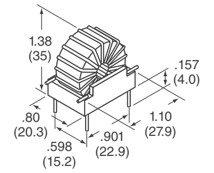

C Series — Clip Mount

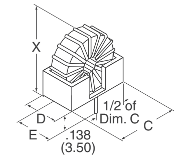

F Series — Encapsulated Flat Mount

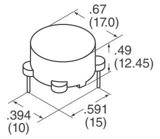

S Series — Surface Mount

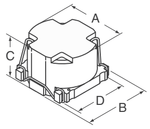

T Series — Thru-Hole Mount

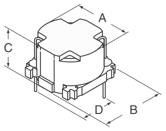

V Series — Encapsulated Vertical Mount

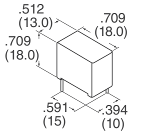

50kHz Inductors

LN (µH) Typ.	IDC Current (A)	ETOP (V-µSec) Max.	DCR (Ω) Max.	Size Code	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
36	5.0	90	0.02	C4	TE2151-ND	2.94	2.52	2.36	SH50C-5.0-36
47	3.0	90	0.05	C2	TE2152-ND	1.86	1.59	1.49	SH50C-3.0-47
47	3.0	90	0.05	S5	TE2142CT-ND§	2.81	2.68	2.55	SH50S-3.0-47
47	3.0	90	0.05	S5	TE2142TR-ND▲		284.75/250		SH50S-3.0-47
47	3.0	90	0.05	T5	TE2137-ND	2.87	2.46	2.30	SH50F-3.0-47
100	3.0	90	0.04	C4	TE2156-ND	2.70	2.31	2.16	SH50C-3.0-100
150	2.0	90	0.10	C4	TE2158-ND	2.49	2.13	1.99	SH50C-2.0-150
150	2.0	90	0.10	S6	TE2143CT-ND§	3.53	3.36	3.20	SH50S-2.0-150
150	2.0	90	0.10	S6	TE2143TR-ND▲		218.40/130		SH50S-2.0-150
150	3.0	200	0.10	C4	TE2155-ND	2.52	2.16	2.02	SH50C-3.0-150
176	1.4	90	0.14	C3	TE2159-ND	2.24	1.92	1.80	SH50C-1.4-176
176	1.4	90	0.14	SH6A	TE2145CT-ND§	3.36	3.20	3.04	SH50S-1.4-176
176	1.4	90	0.14	SH6A	TE2145TR-ND▲		240.00/150		SH50S-1.4-176
176	1.4	90	0.14	TH6A	TE2139-ND	3.40	2.91	2.72	SH50T-1.4-176
220	1.4	90	0.38	S5	TE2144CT-ND§	3.07	2.92	2.78	SH50S-1.4-220
220	1.4	90	0.38	S5	TE2144TR-ND▲		310.25/250		SH50S-1.4-220
220	1.4	90	0.38	F Series	TE2148-ND	2.52	2.16	2.02	SH50F-1.4-220
220	3.0	200	0.07	C5	TE2154-ND	3.64	3.12	2.92	SH50C-3.0-220
267	0.9	90	0.18	C3	TE2162-ND	2.35	2.01	1.88	SH50C-0.9-267
330	0.9	90	0.74	S5	TE2146CT-ND§	2.98	2.84	2.70	SH50S-0.9-330
330	0.9	90	0.74	S5	TE2146TR-ND▲		301.75/250		SH50S-0.9-330
330	0.9	90	0.74	F Series	TE2149-ND	2.70	2.31	2.16	SH50F-0.9-330
330	0.9	90	0.74	V Series	TE2136-ND	2.31	1.98	1.85	SH50V-0.9-330
330	3.0	200	0.15	C5	TE2153-ND	3.47	2.97	2.78	SH50C-3.0-330
470	0.64	90	0.16	C4	TE2163-ND	2.77	2.37	2.22	SH50C-0.64-470
470	2.0	200	0.17	C5	TE2157-ND	3.50	3.00	2.80	SH50C-2.0-470
680	0.85	90	1.25	S5	TE2147CT-ND§	2.94	2.80	2.66	SH50S-0.85-680
680	0.85	90	1.25	S5	TE2147TR-ND▲		297.50/250		SH50S-0.85-680
680	0.85	90	1.25	F Series	TE2150-ND	2.66	2.28	2.13	SH50F-0.85-680
680	1.3	200	0.20	C5	TE2160-ND	3.99	3.42	3.20	SH50C-1.3-680
1000	0.95	200	0.24	C5	TE2161-ND	4.24	3.63	3.39	SH50C-0.95-1000
2200	0.42	200	1.80	B Series	TE2164-ND	4.03	3.45	3.22	SH50B-0.42-2200

§ Cut Tape ▲ Tape and Reel

150kHz Inductors

Simple SwitcherTM Reference No.†	LN (µH) ±20%	IDC Current (A)	ETOP (V-µSec) Max.	DCR (Ω) Max.	Energy Storage (µJ)	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Tape and Reel★ Qty.	Pricing	AlfaMag Part No.	Size Code	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
						Surface Mount								***Thru-Hole***					
LM-259X-L3	118	0.20	13.2	1.80	2	—	—	—	—	—	—	—	—	T1	TE2183-ND	2.14	1.83	1.71	SH150T-0.20-118
LM-259X-L5	55	0.30	6.6	1.00	2	S1	TE2210CT-ND	1.68	1.60	1.52	600	372.00	SH150S-0.30-55	—	—	—	—	—	—
LM-259X-L8	374	0.20	75.9	2.70	7	S2	TE2212CT-ND	2.06	1.96	1.87	550	417.73	SH150S-0.20-374	T2	TE2182-ND	2.31	1.98	1.85	SH150T-0.20-374
LM-259X-L10	176	0.30	26.4	1.40	8	S2	TE2211CT-ND	2.02	1.92	1.83	550	409.20	SH150S-0.30-176	T2	TE2181-ND	2.28	1.95	1.82	SH150T-0.30-176
LM-259X-L11	118	0.38	19.8	1.20	9	S2	TE2208CT-ND	1.97	1.88	1.79	550	400.68	SH150S-0.38-118	T2	TE2179-ND	2.24	1.92	1.80	SH150T-0.38-118
LM-259X-L12	78	0.46	16.5	0.80	8	—	—	—	—	—	—	—	—	T2	TE2177-ND	2.21	1.89	1.77	SH150T-0.46-78
LM-259X-L13	55	0.56	13.2	0.50	9	S2	TE2206CT-ND	1.93	1.84	1.75	550	392.15	SH150S-0.56-55	—	—	—	—	—	—
LM-259X-L15	26	0.84	6.6	0.20	9	—	—	—	—	—	—	—	—	T2	TE2171-ND	2.52	2.16	2.02	SH150T-0.84-26
LM-259X-L16	17	1.02	6.6	0.10	9	S2	TE2200CT-ND	1.93	1.84	1.75	550	392.15	SH150S-1.02-17	—	—	—	—	—	—
LM-259X-L17	375	0.36	75.9	1.30	24	S3	TE2209CT-ND	2.23	2.12	2.02	375	337.88	SH150S-0.36-375	T3	TE2180-ND	2.42	2.07	1.94	SH150T-0.36-375
LM-259X-L18	252	0.44	49.5	0.90	24	—	—	—	—	—	—	—	—	T3	TE2178-ND	2.38	2.04	1.91	SH150T-0.44-252
LM-259X-L19	173	0.54	36.3	0.60	25	S3	TE2207CT-ND	2.06	1.96	1.87	375	312.38	SH150S-0.54-173	T3	TE2176-ND	2.38	2.04	1.91	SH150T-0.54-173
LM-259X-L20	115	0.67	29.7	0.40	26	S3	TE2205CT-ND	2.10	2.00	1.90	375	318.75	SH150S-0.67-115	T3	TE2175-ND	2.35	2.01	1.88	SH150T-0.67-115
LM-259X-L21	78	0.82	23.1	0.30	26	S3	TE2204CT-ND	2.02	1.92	1.83	375	306.00	SH150S-0.82-78	T3	TE2173-ND	2.35	2.01	1.88	SH150T-0.82-78
LM-259X-L22	54	1.00	16.5	0.20	27	S3	TE2202CT-ND	1.68	1.60	1.52	375	255.00	SH150S-1.0-54	—	—	—	—	—	—
LM-259X-L23	38	1.20	13.2	0.10	27	S3	TE2199CT-ND	2.52	2.40	2.28	375	382.50	SH150S-1.2-38	—	—	—	—	—	—
LM-259X-L26	377	0.68	75.9	1.00	87	—	—	—	—	—	—	—	—	T4	TE2174-ND	2.52	2.16	2.02	SH150T-0.68-377
LM-259X-L27	248	0.83	72.6	0.60	85	S4	TE2203CT-ND	2.27	2.16	2.06	250	229.50	SH150S-0.83-248	T4	TE2172-ND	2.49	2.13	1.99	SH150T-0.83-248
LM-259X-L28	168	1.02	56.1	0.40	87	S4	TE2201CT-ND	2.23	2.12	2.02	250	225.25	SH150S-1.02-168	T4	TE2170-ND	2.49	2.13	1.99	SH150T-1.02-168
LM-259X-L29	112	1.26	42.9	0.30	89	S4	TE2198CT-ND	2.23	2.12	2.02	250	225.25	SH150S-1.26-112	T4	TE2169-ND	2.45	2.10	1.96	SH150T-1.26-112
LM-259X-L30	77	1.54	33.0	0.20	91	S4	TE2197CT-ND	2.18	2.08	1.98	250	221.00	SH150S-1.54-77	T4	TE2168-ND	2.45	2.10	1.96	SH150T-1.54-77
LM-259X-L31	53	1.87	26.4	0.13	93	S4	TE2195CT-ND	2.27	2.16	2.06	250	229.50	SH150S-1.87-53	T4	TE2167-ND	2.73	2.34	2.19	SH150T-1.87-53
LM-259X-L32	37	2.24	19.8	0.10	93	S4	TE2193CT-ND	2.27	2.16	2.06	250	229.50	SH150S-2.24-37	T4	TE2166-ND	2.70	2.31	2.16	SH150T-2.24-37
LM-259X-L33	24	2.74	16.5	0.07	90	S4	TE2190CT-ND	2.27	2.16	2.06	250	229.50	SH150S-2.74-24	T4	TE2165-ND	2.70	2.31	2.16	SH150T-2.74-24
LM-259X-L34	17	3.00	13.2	0.05	77	S4	TE2188CT-ND	2.60	2.48	2.36	250	263.50	SH150S-3.00-17	C1	TE2218-ND	1.96	1.68	1.57	SH150C-3.00-17
LM-259X-L35	250	1.50	72.6	0.23	281	—	—	—	—	—	—	—	—	C3	TE2222-ND	2.77	2.37	2.22	SH150C-1.5-250
LM-259X-L36	168	1.81	75.9	0.18	275	SH6A	TE2196CT-ND	3.70	3.52	3.35	150	264.00	SH150S-1.81-168	—	—	—	—	—	—
LM-259X-L37	114	2.22	62.7	0.10	281	SH6A	TE2194CT-ND	4.45	4.24	4.03	150	318.00	SH150S-2.22-114	C3	TE2221-ND	2.59	2.22	2.08	SH150C-2.22-114
LM-259X-L38	77	2.70	52.8	0.09	281	SH6A	TE2191CT-ND	3.99	3.80	3.61	150	285.00	SH150S-2.70-77	—	—	—	—	—	—
LM-259X-L39	53	3.00	42.9	0.08	239	SH6A	TE2185CT-ND	3.95	3.76	3.58	150	282.00	SH150S-3.00-53	C3	TE2215-ND	2.87	2.46	2.30	SH150C-3.00-53
LM-259X-L40	38	3.00	29.7	0.05	171	SH6A	TE2186CT-ND	3.91	3.72	3.54	150	279.00	SH150S-3.00-38	C3	TE2216-ND	2.84	2.43	2.27	SH150C-3.00-38
LM-259X-L41	25	3.00	19.8	0.04	113	S5	TE2187CT-ND	2.86	2.72	2.59	250	289.00	SH150S-3.00-25	C2	TE2217-ND	2.28	1.95	1.82	SH150C-3.00-25
LM-259X-L42	167	2.50	75.9	0.14	522	SHC7	TE2192CT-ND	5.84	5.56	5.29	110	305.80	SH150S-2.50-167	C4	TE2220-ND	4.20	3.60	3.36	SH150C-2.50-167
LM-259X-L43	110	3.00	75.9	0.09	495	SHC7	TE2189CT-ND	5.75	5.48	5.21	110	301.40	SH150S-3.00-110	C4	TE2219-ND	4.13	3.54	3.31	SH150C-3.00-110
LM-259X-L44	77	3.00	59.4	0.08	347	SH6A	TE2184CT-ND	4.12	3.92	3.73	150	294.00	SH150S-3.00-77	C3	TE2214-ND	3.01	2.58	2.41	SH150C-3.00-77
LM-258X-L	19	4.50	32.0‡	0.02	192	—	—	—	—	—	—	—	—	C3	TE2213-ND	2.66	2.28	2.13	SH150C-4.50-19

★ For Tape and Reel part number, change CT-ND to TR-ND. † Simple Switcher is a trademark of National Semiconductor to be used for reference only.

‡ ET_{OP} for part number SH150C-4.50-19 is based on a frequency of 100kHz. All other items are rated at 150kHz.

TAIYO YUDEN Multilayer Chip Inductors

HK Series

Features:
- Multilayer inductor made of advanced ceramics with low-resistivity silver used as internal conductors provides excellent Q and SRF characteristics
- Designed to address surface mount inductor needs for applications above 100MHz
- Multilayer block structure ensures outstanding reliability, high productivity and product quality

Applications:
- Portable telephones, PHS and pagers
- Miscellaneous high-frequency circuits
- EMI countermeasure in high-frequency circuits

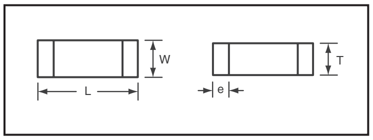

Size	Dimensions - Inch (mm)			
	L	W	T	e
0201	0.024 ±0.001 (0.6 ±0.03)	0.012 ±0.001 (0.3 ±0.03)	0.012 ±0.001 (0.3 ±0.03)	0.006 ±0.002 (0.15 ±0.05)
0402	0.039 ±0.002 (1.00 ±0.05)	0.020 ±0.002 (0.5 ±0.05)	0.020 ±0.002 (0.5 ±0.05)	0.010 ±0.004 (0.25 ±0.10)
0603	0.063 ±0.006 (1.6 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.012 ±0.008 (0.3 ±0.2)

Size	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q (Typical) @ 100MHz	Typical DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
								1	10	100		Qty.	Pricing	
0201	1.0	±0.3nH	100	6	.088	470	587-1473-1-ND§	.39	2.60	10.40	587-1473-2-ND	15,000	25.00/M	HK06031N0S-T
	1.2	±0.3nH	100	6	.089	450	587-1474-1-ND§	.39	2.60	10.40	587-1474-2-ND	15,000	25.00/M	HK06031N2S-T
	1.5	±0.3nH	100	6	.11	430	587-1475-1-ND§	.39	2.60	10.40	587-1475-2-ND	15,000	25.00/M	HK06031N5S-T
	1.8	±0.3nH	100	6	.12	390	587-1476-1-ND§	.39	2.60	10.40	587-1476-2-ND	15,000	25.00/M	HK06031N8S-T
	2.2	±0.3nH	100	6	.14	360	587-1477-1-ND§	.39	2.60	10.40	587-1477-2-ND	15,000	25.00/M	HK06032N2S-T
	2.7	±0.3nH	100	7	.16	340	587-1478-1-ND§	.39	2.60	10.40	587-1478-2-ND	15,000	25.00/M	HK06032N7S-T
	3.3	±0.3nH	100	7	.19	320	587-1479-1-ND§	.39	2.60	10.40	587-1479-2-ND	15,000	25.00/M	HK06033N3S-T
	3.9	±0.3nH	100	7	.20	300	587-1480-1-ND§	.39	2.60	10.40	587-1480-2-ND	15,000	25.00/M	HK06033N9S-T
	4.7	±0.3nH	100	7	.24	280	587-1481-1-ND§	.39	2.60	10.40	587-1481-2-ND	15,000	25.00/M	HK06034N7S-T
	5.6	±0.3nH	100	7	.27	260	587-1482-1-ND§	.39	2.60	10.40	587-1482-2-ND	15,000	25.00/M	HK06035N6S-T
	6.8	±5%	100	7	.30	250	587-1483-1-ND§	.39	2.60	10.40	587-1483-2-ND	15,000	25.00/M	HK06036N8J-T
	8.2	±5%	100	7	.34	230	587-1484-1-ND§	.39	2.60	10.40	587-1484-2-ND	15,000	25.00/M	HK06038N2J-T
	10	±5%	100	7	.41	220	587-1485-1-ND§	.39	2.60	10.40	587-1485-2-ND	15,000	25.00/M	HK060310NJ-T
	12	±5%	100	7	.45	190	587-1486-1-ND§	.39	2.60	10.40	587-1486-2-ND	15,000	25.00/M	HK060312NJ-T
	15	±5%	100	7	.50	180	587-1487-1-ND§	.39	2.60	10.40	587-1487-2-ND	15,000	25.00/M	HK060315NJ-T
	18	±5%	100	7	.57	170	587-1488-1-ND§	.39	2.60	10.40	587-1488-2-ND	15,000	25.00/M	HK060318NJ-T
	22	±5%	100	7	.71	150	587-1489-1-ND§	.39	2.60	10.40	587-1489-2-ND	15,000	25.00/M	HK060322NJ-T
	27	±5%	100	6	1.11	120	587-1490-1-ND§	.39	2.60	10.40	587-1490-2-ND	15,000	25.00/M	HK060327NJ-T
	33	±5%	100	6	1.33	110	587-1491-1-ND§	.39	2.60	10.40	587-1491-2-ND	15,000	25.00/M	HK060333NJ-T
	39	±5%	100	6	1.51	100	587-1492-1-ND§	.39	2.60	10.40	587-1492-2-ND	15,000	25.00/M	HK060339NJ-T
	47	±5%	100	6	1.74	100	587-1493-1-ND§	.39	2.60	10.40	587-1493-2-ND	15,000	25.00/M	HK060347NJ-T
	56	±5%	100	6	1.85	80	587-1494-1-ND§	.39	2.60	10.40	587-1494-2-ND	15,000	25.00/M	HK060356NJ-T
	68	±5%	100	6	2.30	80	587-1495-1-ND§	.39	2.60	10.40	587-1495-2-ND	15,000	25.00/M	HK060368NJ-T
	82	±5%	100	6	2.60	70	587-1496-1-ND§	.39	2.60	10.40	587-1496-2-ND	15,000	25.00/M	HK060382NJ-T
	100	±5%	100	6	3.00	60	587-1497-1-ND§	.39	2.60	10.40	587-1497-2-ND	15,000	25.00/M	HK0603R10J-T
0402	1.0	±0.3nH	100	11	.04	300	587-1498-1-ND†	.36	2.40	9.60	587-1498-2-ND	10,000	24.00/M	HK10051N0S-T
	1.2	±0.3nH	100	11	.04	300	587-1499-1-ND†	.36	2.40	9.60	587-1499-2-ND	10,000	24.00/M	HK10051N2S-T
	1.5	±0.3nH	100	11	.05	300	587-1500-1-ND†	.36	2.40	9.60	587-1500-2-ND	10,000	24.00/M	HK10051N5S-T
	1.8	±0.3nH	100	11	.06	300	587-1501-1-ND†	.36	2.40	9.60	587-1501-2-ND	10,000	24.00/M	HK10051N8S-T
	2.0	±0.3nH	100	11	.06	300	587-1502-1-ND	.36	2.40	9.60	587-1502-2-ND	10,000	24.00/M	HK10052N0S-T
	2.2	±0.3nH	100	10	.07	300	587-1503-1-ND†	.36	2.40	9.60	587-1503-2-ND	10,000	24.00/M	HK10052N2S-T
	2.4	±0.3nH	100	10	.07	300	587-1504-1-ND	.36	2.40	9.60	587-1504-2-ND	10,000	24.00/M	HK10052N4S-T
	2.7	±0.3nH	100	10	.08	300	587-1505-1-ND†	.36	2.40	9.60	587-1505-2-ND	10,000	24.00/M	HK10052N7S-T
	3.0	±0.3nH	100	10	.09	300	587-1506-1-ND	.36	2.40	9.60	587-1506-2-ND	10,000	24.00/M	HK10053N0S-T
	3.3	±0.3nH	100	10	.10	300	587-1507-1-ND†	.36	2.40	9.60	587-1507-2-ND	10,000	24.00/M	HK10053N3S-T
	3.6	±0.3nH	100	10	.11	300	587-1508-1-ND	.36	2.40	9.60	587-1508-2-ND	10,000	24.00/M	HK10053N6S-T
	3.9	±0.3nH	100	10	.12	300	587-1509-1-ND†	.36	2.40	9.60	587-1509-2-ND	10,000	24.00/M	HK10053N9S-T
	4.3	±0.3nH	100	10	.12	300	587-1510-1-ND	.36	2.40	9.60	587-1510-2-ND	10,000	24.00/M	HK10054N3S-T
	4.7	±0.3nH	100	10	.12	300	587-1511-1-ND†	.36	2.40	9.60	587-1511-2-ND	10,000	24.00/M	HK10054N7S-T
	5.1	±0.3nH	100	10	.13	300	587-1512-1-ND	.36	2.40	9.60	587-1512-2-ND	10,000	24.00/M	HK10055N1S-T
	5.6	±0.3nH	100	10	.15	300	587-1513-1-ND†	.36	2.40	9.60	587-1513-2-ND	10,000	24.00/M	HK10055N6S-T
	6.2	±0.3nH	100	10	.16	300	587-1514-1-ND	.36	2.40	9.60	587-1514-2-ND	10,000	24.00/M	HK10056N2S-T
	6.8	±5%	100	10	.17	300	587-1515-1-ND†	.36	2.40	9.60	587-1515-2-ND	10,000	24.00/M	HK10056N8J-T
	7.5	±5%	100	10	.18	300	587-1516-1-ND	.36	2.40	9.60	587-1516-2-ND	10,000	24.00/M	HK10057N5J-T
	8.2	±5%	100	10	.21	300	587-1517-1-ND†	.36	2.40	9.60	587-1517-2-ND	10,000	24.00/M	HK10058N2J-T
	9.1	±5%	100	10	.22	300	587-1518-1-ND	.36	2.40	9.60	587-1518-2-ND	10,000	24.00/M	HK10059N1J-T
	10	±5%	100	10	.23	300	587-1519-1-ND†	.36	2.40	9.60	587-1519-2-ND	10,000	24.00/M	HK100510NJ-T
	12	±5%	100	11	.28	300	587-1520-1-ND†	.36	2.40	9.60	587-1520-2-ND	10,000	24.00/M	HK100512NJ-T
	15	±5%	100	11	.31	300	587-1521-1-ND†	.36	2.40	9.60	587-1521-2-ND	10,000	24.00/M	HK100515NJ-T
	18	±5%	100	11	.35	300	587-1522-1-ND†	.36	2.40	9.60	587-1522-2-ND	10,000	24.00/M	HK100518NJ-T
	22	±5%	100	11	.42	300	587-1523-1-ND†	.36	2.40	9.60	587-1523-2-ND	10,000	24.00/M	HK100522NJ-T
	27	±5%	100	11	.47	300	587-1524-1-ND†	.36	2.40	9.60	587-1524-2-ND	10,000	24.00/M	HK100527NJ-T
	33	±5%	100	11	.50	200	587-1525-1-ND†	.36	2.40	9.60	587-1525-2-ND	10,000	24.00/M	HK100533NJ-T
	39	±5%	100	11	.52	200	587-1526-1-ND†	.36	2.40	9.60	587-1526-2-ND	10,000	24.00/M	HK100539NJ-T
	47	±5%	100	11	.58	200	587-1527-1-ND†	.36	2.40	9.60	587-1527-2-ND	10,000	24.00/M	HK100547NJ-T
	56	±5%	100	11	.61	200	587-1528-1-ND†	.36	2.40	9.60	587-1528-2-ND	10,000	24.00/M	HK100556NJ-T
	68	±5%	100	11	.70	180	587-1529-1-ND†	.36	2.40	9.60	587-1529-2-ND	10,000	24.00/M	HK100568NJ-T
	82	±5%	100	10	.81	150	587-1530-1-ND†	.36	2.40	9.60	587-1530-2-ND	10,000	24.00/M	HK100582NJ-T
	100	±5%	100	10	.94	150	587-1531-1-ND†	.36	2.40	9.60	587-1531-2-ND	10,000	24.00/M	HK1005R10J-T
	120	±5%	100	10	1.10	150	587-1532-1-ND†	.36	2.40	9.60	587-1532-2-ND	10,000	24.00/M	HK1005R12J-T
	150	±5%	100	12	2.57	140	587-1788-1-ND	.36	2.40	9.60	587-1788-2-ND	10,000	24.00/M	HK1005R15J-T
	180	±5%	100	12	2.97	130	587-1789-1-ND	.36	2.40	9.60	587-1789-2-ND	10,000	24.00/M	HK1005R18J-T
	220	±5%	100	12	3.29	120	587-1790-1-ND	.36	2.40	9.60	587-1790-2-ND	10,000	24.00/M	HK1005R22J-T
	270	±5%	100	12	3.92	110	587-1791-1-ND	.36	2.40	9.60	587-1791-2-ND	10,000	24.00/M	HK1005R27J-T
0603	1.0	±0.3nH	100	14	.015	300	587-1533-1-ND	.32	2.40	11.20	587-1533-2-ND	4,000	32.00/M	HK16081N0S-T
	1.2	±0.3nH	100	14	.015	300	587-1534-1-ND	.32	2.40	11.20	587-1534-2-ND	4,000	32.00/M	HK16081N2S-T
	1.5	±0.3nH	100	14	.03	300	587-1535-1-ND‡	.32	2.40	11.20	587-1535-2-ND	4,000	32.00/M	HK16081N5S-T
	1.8	±0.3nH	100	10	.06	300	587-1536-1-ND‡	.32	2.40	11.20	587-1536-2-ND	4,000	32.00/M	HK16081N8S-T
	2.2	±0.3nH	100	12	.06	300	587-1537-1-ND‡	.32	2.40	11.20	587-1537-2-ND	4,000	32.00/M	HK16082N2S-T
	2.7	±0.3nH	100	13	.06	300	587-1538-1-ND‡	.32	2.40	11.20	587-1538-2-ND	4,000	32.00/M	HK16082N7S-T
	3.3	±0.3nH	100	14	.06	300	587-1539-1-ND‡	.32	2.40	11.20	587-1539-2-ND	4,000	32.00/M	HK16083N3S-T
	3.9	±0.3nH	100	13	.07	300	587-1540-1-ND‡	.32	2.40	11.20	587-1540-2-ND	4,000	32.00/M	HK16083N9S-T
	4.7	±0.3nH	100	13	.08	300	587-1541-1-ND‡	.32	2.40	11.20	587-1541-2-ND	4,000	32.00/M	HK16084N7S-T
	5.6	±0.3nH	100	14	.09	300	587-1542-1-ND‡	.32	2.40	11.20	587-1542-2-ND	4,000	32.00/M	HK16085N6S-T
	6.8	±5%	100	14	.11	300	587-1543-1-ND‡	.32	2.40	11.20	587-1543-2-ND	4,000	32.00/M	HK16086N8J-T
	8.2	±5%	100	14	.13	300	587-1544-1-ND‡	.32	2.40	11.20	587-1544-2-ND	4,000	32.00/M	HK16088N2J-T

(Continued)

HK Series *(Cont.)*

Size	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q (Typical) @ 100MHz	Typical DC Resis-tance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
0603	10	±5%	100	14	.16	300	587-1545-1-ND‡	.32	2.40	11.20	587-1545-2-ND	4,000	32.00/M	HK160810NJ-T
	12	±5%	100	14	.17	300	587-1546-1-ND‡	.32	2.40	11.20	587-1546-2-ND	4,000	32.00/M	HK160812NJ-T
	15	±5%	100	15	.20	300	587-1547-1-ND‡	.32	2.40	11.20	587-1547-2-ND	4,000	32.00/M	HK160815NJ-T
	18	±5%	100	15	.21	300	587-1548-1-ND‡	.32	2.40	11.20	587-1548-2-ND	4,000	32.00/M	HK160818NJ-T
	22	±5%	100	16	.25	300	587-1549-1-ND‡	.32	2.40	11.20	587-1549-2-ND	4,000	32.00/M	HK160822NJ-T
	27	±5%	100	16	.28	300	587-1550-1-ND‡	.32	2.40	11.20	587-1550-2-ND	4,000	32.00/M	HK160827NJ-T
	33	±5%	100	17	.35	300	587-1551-1-ND‡	.32	2.40	11.20	587-1551-2-ND	4,000	32.00/M	HK160833NJ-T
	39	±5%	100	18	.38	300	587-1552-1-ND‡	.32	2.40	11.20	587-1552-2-ND	4,000	32.00/M	HK160839NJ-T
	47	±5%	100	17	.45	300	587-1553-1-ND‡	.32	2.40	11.20	587-1553-2-ND	4,000	32.00/M	HK160847NJ-T
	56	±5%	100	17	.50	300	587-1554-1-ND‡	.32	2.40	11.20	587-1554-2-ND	4,000	32.00/M	HK160856NJ-T
	68	±5%	100	18	.55	300	587-1555-1-ND‡	.32	2.40	11.20	587-1555-2-ND	4,000	32.00/M	HK160868NJ-T
	82	±5%	100	18	.60	300	587-1556-1-ND‡	.32	2.40	11.20	587-1556-2-ND	4,000	32.00/M	HK160882NJ-T
	100	±5%	100	18	.65	300	587-1557-1-ND‡	.32	2.40	11.20	587-1557-2-ND	4,000	32.00/M	HK1608R10J-T
	120	±5%	50	16	.68	300	587-1558-1-ND‡	.32	2.40	11.20	587-1558-2-ND	4,000	32.00/M	HK1608R12J-T
	150	±5%	50	13	.73	300	587-1559-1-ND‡	.32	2.40	11.20	587-1559-2-ND	4,000	32.00/M	HK1608R15J-T
	180	±5%	50	13	.85	300	587-1560-1-ND‡	.32	2.40	11.20	587-1560-2-ND	4,000	32.00/M	HK1608R18J-T
	220	±5%	50	12	.95	300	587-1561-1-ND‡	.32	2.40	11.20	587-1561-2-ND	4,000	32.00/M	HK1608R22J-T
	270	±5%	50	14	1.34	150	587-1562-1-ND	.32	2.40	11.20	587-1562-2-ND	4,000	32.00/M	HK1608R27J-T
	330	±5%	50	14	1.53	150	587-1563-1-ND	.32	2.40	11.20	587-1563-2-ND	4,000	32.00/M	HK1608R33J-T
	390	±5%	50	13	1.72	150	587-1564-1-ND	.32	2.40	11.20	587-1564-2-ND	4,000	32.00/M	HK1608R39J-T
	470	±5%	50	13	2.04	150	587-1565-1-ND	.32	2.40	11.20	587-1565-2-ND	4,000	32.00/M	HK1608R47J-T

§ **587-1793-ND** (TAIYO-HK0603-V1)	50 each of values denoted (1250 total pieces)	**$60.00**
† **587-1787-ND** (TAIYO-HK1005-V1)	50 each of values denoted (1300 total pieces)	**$60.00**
‡ **587-1792-ND** (TAIYO-HK1608-V1)	50 each of values denoted (1350 total pieces)	**$60.00**

NEW! HKQ Series

Features: • Multilayer inductor made of advanced ceramics with low-resistivity silver used as internal conductors provides excellent Q and SRF characteristics • Designed to address surface mount inductor needs for applications above 500MHz • Multilayer block structure ensures outstanding reliability, high productivity and product quality
Applications: • Portable telephones, PHS and W-LAN • Miscellaneous high-frequency circuits • EMI countermeasure in high-frequency circuits

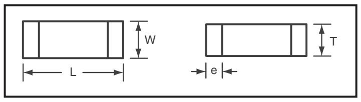

Size	Dimensions - Inch (mm) L	W	T	e
0201	0.024 ±0.001 (0.6 ±0.03)	0.012 ±0.001 (0.3 ±0.03)	0.012 ±0.001 (0.3 ±0.03)	0.004 ±0.002 (0.1 ±0.05)

Size	Inductance (nH)	Inductance Tolerance	LQ Measuring Frequency (MHz)	Q (Typical) @ 500MHz	Max. DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 15,000	Taiyo Yuden Part No.
0201	0.6	±0.2nH	500	>24	0.06	600	587-2317-1-ND	.39	2.60	10.40	587-2317-2-ND	24.70/M	HKQ0603S0N6C-T
	0.7	±0.2nH	500	>24	0.07	550	587-2318-1-ND	.39	2.60	10.40	587-2318-2-ND	24.70/M	HKQ0603S0N7C-T
	0.8	±0.2nH	500	>24	0.07	550	587-2319-1-ND	.39	2.60	10.40	587-2319-2-ND	24.70/M	HKQ0603S0N8C-T
	0.9	±0.2nH	500	>24	0.08	520	587-2320-1-ND	.39	2.60	10.40	587-2320-2-ND	24.70/M	HKQ0603S0N9C-T
	1.0	±0.2nH	500	24	0.09	490	587-2325-1-ND	.39	2.60	10.40	587-2325-2-ND	24.70/M	HKQ0603S1N0C-T
	1.1	±0.2nH	500	19	0.12	420	587-2326-1-ND	.39	2.60	10.40	587-2326-2-ND	24.70/M	HKQ0603S1N1C-T
	1.2	±0.2nH	500	19	0.15	380	587-2327-1-ND	.39	2.60	10.40	587-2327-2-ND	24.70/M	HKQ0603S1N2C-T
	1.3	±0.2nH	500	19	0.19	330	587-2328-1-ND	.39	2.60	10.40	587-2328-2-ND	24.70/M	HKQ0603S1N3C-T
	1.4	±0.2nH	500	19	0.11	440	587-2329-1-ND	.39	2.60	10.40	587-2329-2-ND	24.70/M	HKQ0603S1N4C-T
	1.5	±0.2nH	500	19	0.12	420	587-2330-1-ND	.39	2.60	10.40	587-2330-2-ND	24.70/M	HKQ0603S1N5C-T
	1.6	±0.2nH	500	19	0.13	410	587-2331-1-ND	.39	2.60	10.40	587-2331-2-ND	24.70/M	HKQ0603S1N6C-T
	1.7	±0.2nH	500	19	0.15	380	587-2332-1-ND	.39	2.60	10.40	587-2332-2-ND	24.70/M	HKQ0603S1N7C-T
	1.8	±0.2nH	500	18	0.16	370	587-2333-1-ND	.39	2.60	10.40	587-2333-2-ND	24.70/M	HKQ0603S1N8C-T
	1.9	±0.2nH	500	18	0.20	330	587-2334-1-ND	.39	2.60	10.40	587-2334-2-ND	24.70/M	HKQ0603S1N9C-T
	2.0	±0.2nH	500	17	0.24	300	587-2336-1-ND	.39	2.60	10.40	587-2336-2-ND	24.70/M	HKQ0603S2N0C-T
	2.1	±0.2nH	500	17	0.26	290	587-2337-1-ND	.39	2.60	10.40	587-2337-2-ND	24.70/M	HKQ0603S2N1C-T
	2.2	±0.2nH	500	17	0.28	270	587-2338-1-ND	.39	2.60	10.40	587-2338-2-ND	24.70/M	HKQ0603S2N2C-T
	2.3	±0.2nH	500	17	0.30	270	587-2339-1-ND	.39	2.60	10.40	587-2339-2-ND	24.70/M	HKQ0603S2N3C-T
	2.4	±0.2nH	500	17	0.32	260	587-2340-1-ND	.39	2.60	10.40	587-2340-2-ND	24.70/M	HKQ0603S2N4C-T
	2.5	±0.2nH	500	17	0.20	330	587-2341-1-ND	.39	2.60	10.40	587-2341-2-ND	24.70/M	HKQ0603S2N5C-T
	2.6	±0.2nH	500	17	0.22	310	587-2342-1-ND	.39	2.60	10.40	587-2342-2-ND	24.70/M	HKQ0603S2N6C-T
	2.7	±0.2nH	500	17	0.24	300	587-2343-1-ND	.39	2.60	10.40	587-2343-2-ND	24.70/M	HKQ0603S2N7C-T
	2.8	±0.2nH	500	17	0.25	290	587-2344-1-ND	.39	2.60	10.40	587-2344-2-ND	24.70/M	HKQ0603S2N8C-T
	2.9	±0.2nH	500	17	0.28	270	587-2345-1-ND	.39	2.60	10.40	587-2345-2-ND	24.70/M	HKQ0603S2N9C-T
	3.0	±0.2nH	500	17	0.28	270	587-2346-1-ND	.39	2.60	10.40	587-2346-2-ND	24.70/M	HKQ0603S3N0C-T
	3.1	±0.2nH	500	17	0.29	270	587-2347-1-ND	.39	2.60	10.40	587-2347-2-ND	24.70/M	HKQ0603S3N1C-T
	3.2	±0.2nH	500	17	0.30	270	587-2348-1-ND	.39	2.60	10.40	587-2348-2-ND	24.70/M	HKQ0603S3N2C-T
	3.3	±0.2nH	500	17	0.32	260	587-2349-1-ND	.39	2.60	10.40	587-2349-2-ND	24.70/M	HKQ0603S3N3C-T
	3.4	±0.2nH	500	16	0.36	240	587-2350-1-ND	.39	2.60	10.40	587-2350-2-ND	24.70/M	HKQ0603S3N4C-T
	3.5	±0.2nH	500	16	0.40	230	587-2351-1-ND	.39	2.60	10.40	587-2351-2-ND	24.70/M	HKQ0603S3N5C-T
	3.6	±0.2nH	500	16	0.41	230	587-2352-1-ND	.39	2.60	10.40	587-2352-2-ND	24.70/M	HKQ0603S3N6C-T
	3.7	±0.2nH	500	16	0.44	220	587-2353-1-ND	.39	2.60	10.40	587-2353-2-ND	24.70/M	HKQ0603S3N7C-T
	3.8	±0.2nH	500	16	0.48	210	587-2354-1-ND	.39	2.60	10.40	587-2354-2-ND	24.70/M	HKQ0603S3N8C-T
	3.9	±0.2nH	500	16	0.48	210	587-2355-1-ND	.39	2.60	10.40	587-2355-2-ND	24.70/M	HKQ0603S3N9C-T
	4.3	±0.2nH	500	16	0.39	230	587-2356-1-ND	.39	2.60	10.40	587-2356-2-ND	24.70/M	HKQ0603S4N3C-T
	4.7	±0.2nH	500	16	0.44	220	587-2357-1-ND	.39	2.60	10.40	587-2357-2-ND	24.70/M	HKQ0603S4N7C-T
	5.1	±0.2nH	500	16	0.49	210	587-2358-1-ND	.39	2.60	10.40	587-2358-2-ND	24.70/M	HKQ0603S5N1C-T
	5.6	±0.2nH	500	16	0.47	210	587-2359-1-ND	.39	2.60	10.40	587-2359-2-ND	24.70/M	HKQ0603S5N6C-T
	6.2	±0.2nH	500	16	0.52	200	587-2360-1-ND	.39	2.60	10.40	587-2360-2-ND	24.70/M	HKQ0603S6N2C-T
	6.8	±3%	500	16	0.55	190	587-2361-1-ND	.39	2.60	10.40	587-2361-2-ND	24.70/M	HKQ0603S6N8H-T
	7.5	±3%	500	16	0.51	200	587-2362-1-ND	.39	2.60	10.40	587-2362-2-ND	24.70/M	HKQ0603S7N5H-T
	8.2	±3%	500	16	0.57	190	587-2363-1-ND	.39	2.60	10.40	587-2363-2-ND	24.70/M	HKQ0603S8N2H-T
	9.1	±3%	500	16	0.73	170	587-2364-1-ND	.39	2.60	10.40	587-2364-2-ND	24.70/M	HKQ0603S9N1H-T
	10	±3%	500	16	0.85	160	587-2321-1-ND	.39	2.60	10.40	587-2321-2-ND	24.70/M	HKQ0603S10NH-T
	12	±3%	500	16	0.85	160	587-2322-1-ND	.39	2.60	10.40	587-2322-2-ND	24.70/M	HKQ0603S12NH-T
	15	±3%	500	15	0.89	150	587-2323-1-ND	.39	2.60	10.40	587-2323-2-ND	24.70/M	HKQ0603S15NH-T
	18	±3%	500	15	1.05	140	587-2324-1-ND	.39	2.60	10.40	587-2324-2-ND	24.70/M	HKQ0603S18NH-T
	22	±3%	500	15	1.29	130	587-2335-1-ND	.39	2.60	10.40	587-2335-2-ND	24.70/M	HKQ0603S22NH-T

(Continued)

LK Series

Features: • Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities • Multilayer block structure yields higher reliability

Applications: Any general circuit of portable equipment in which compact size and high mounting densities are required

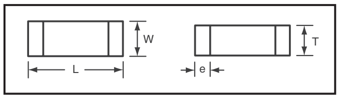

Size	Dimensions in Inch (mm)			
	L	W	T	e
0603	0.063 ±0.006 (1.6 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.012 ±0.008 (0.3 ±0.2)
0805	0.079 (2.0)	0.049 ±0.008 (1.25 ±0.02)	0.033 ±0.008 (0.85 ±0.2)	0.020 ±0.012 (0.5 ±0.3)

Size	Inductance (µH)	Tolerance	Test Frequency (MHz)	Q (min.)	Max. DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 4,000	Taiyo Yuden Part No.
								1	10	100			
0603	.068	±20%	50	10	.30	50	587-1598-1-ND	.31	2.42	12.65	—	—	LK160868NM-T
	.082	±20%	50	10	.30	50	587-1599-1-ND	.31	2.42	12.65	—	—	LK160882NM-T
	.10	±10%	25	15	.50	50	587-1566-1-ND	.38	3.00	15.70	587-1566-2-ND	51.00/M	LK1608R10K-T
	.12	±10%	25	15	.50	50	587-1567-1-ND	.38	3.00	15.70	587-1567-2-ND	51.00/M	LK1608R12K-T
	.15	±10%	25	15	.60	50	587-1568-1-ND	.38	3.00	15.70	587-1568-2-ND	51.00/M	LK1608R15K-T
	.18	±10%	25	15	.60	50	587-1569-1-ND	.38	3.00	15.70	587-1569-2-ND	51.00/M	LK1608R18K-T
	.22	±10%	25	15	.80	50	587-1570-1-ND	.38	3.00	15.70	587-1570-2-ND	51.00/M	LK1608R22K-T
	.27	±10%	25	15	.80	50	587-1571-1-ND	.38	3.00	15.70	587-1571-2-ND	51.00/M	LK1608R27K-T
	.33	±10%	25	15	.85	35	587-1572-1-ND	.38	3.00	15.70	587-1572-2-ND	51.00/M	LK1608R33K-T
	.39	±10%	25	15	1.00	35	587-1573-1-ND	.38	3.00	15.70	587-1573-2-ND	51.00/M	LK1608R39K-T
	.47	±10%	25	15	1.35	35	587-1574-1-ND	.38	3.00	15.70	587-1574-2-ND	51.00/M	LK1608R47K-T
	.56	±10%	25	15	1.55	35	587-1575-1-ND	.38	3.00	15.70	587-1575-2-ND	51.00/M	LK1608R56K-T
	.68	±10%	25	15	1.70	35	587-1576-1-ND	.38	3.00	15.70	587-1576-2-ND	51.00/M	LK1608R68K-T
	.82	±10%	25	15	2.10	35	587-1577-1-ND	.38	3.00	15.70	587-1577-2-ND	51.00/M	LK1608R82K-T
	1.0	±10%	10	35	.60	25	587-1578-1-ND	.38	3.00	15.70	587-1578-2-ND	51.00/M	LK16081R0K-T
	1.2	±10%	10	35	.80	25	587-1579-1-ND	.38	3.00	15.70	587-1579-2-ND	51.00/M	LK16081R2K-T
	1.5	±10%	10	35	.80	25	587-1580-1-ND	.38	3.00	15.70	587-1580-2-ND	51.00/M	LK16081R5K-T
	1.8	±10%	10	35	.95	25	587-1581-1-ND	.38	3.00	15.70	587-1581-2-ND	51.00/M	LK16081R8K-T
	2.2	±10%	10	35	1.15	15	587-1582-1-ND	.38	3.00	15.70	587-1582-2-ND	51.00/M	LK16082R2K-T
	2.7	±10%	10	35	1.35	15	587-1583-1-ND	.38	3.00	15.70	587-1583-2-ND	51.00/M	LK16082R7K-T
	3.3	±10%	10	35	1.55	15	587-1584-1-ND	.38	3.00	15.70	587-1584-2-ND	51.00/M	LK16083R3K-T
	3.9	±10%	10	35	1.70	15	587-1585-1-ND	.38	3.00	15.70	587-1585-2-ND	51.00/M	LK16083R9K-T
	4.7	±10%	10	35	2.10	15	587-1586-1-ND	.38	3.00	15.70	587-1586-2-ND	51.00/M	LK16084R7K-T
	5.6	±10%	4	35	1.55	5	587-1587-1-ND	.38	3.00	15.70	587-1587-2-ND	51.00/M	LK16085R6K-T
	6.8	±10%	4	35	1.70	5	587-1588-1-ND	.38	3.00	15.70	587-1588-2-ND	51.00/M	LK16086R8K-T
	8.2	±10%	4	35	2.10	5	587-1589-1-ND	.38	3.00	15.70	587-1589-2-ND	51.00/M	LK16088R2K-T
	10	±10%	2	35	2.55	5	587-1590-1-ND	.38	3.00	15.70	587-1590-2-ND	51.00/M	LK1608100K-T
	12	±10%	2	35	2.75	5	587-1591-1-ND	.38	3.00	15.70	587-1591-2-ND	51.00/M	LK1608120K-T
	18	±20%	1	20	1.85	1	587-1593-1-ND	.38	3.00	15.70	587-1593-2-ND	51.00/M	LK1608180M-T
	22	±20%	1	20	2.10	1	587-1594-1-ND	.38	3.00	15.70	587-1594-2-ND	51.00/M	LK1608220M-T
	27	±20%	1	20	2.75	1	587-1595-1-ND	.31	2.42	12.65	587-1595-2-ND	51.00/M	LK1608270M-T
	33	±20%	1	20	2.95	1	587-1596-1-ND	.38	3.00	15.70	587-1596-2-ND	51.00/M	LK1608330M-T
0805	1.0	±10%	10	45	.30	80	587-2658-1-ND ***NEW!***	.43	3.41	17.83	587-2658-2-ND ***NEW!***	57.35/M	LK21251R0K-T

CK Series

Features:

- Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities • Multilayer block structure yields higher reliability

Applications:

- Separation of analog and digital circuits • Prevents interference between PLL and the other digital circuits

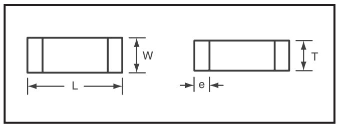

Size	Dimensions in Inch (mm)			
	L	W	T	e
0603	0.063 0.006 (1.6 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.031 ±0.006 (0.8 ±0.15)	0.012 ±0.008 (0.3 ±0.2)
0805 **(R10M~2R2M)**	0.079 +0.012 -0.004 (2.0 +0.3/-0.1)	0.049 ±0.008 (1.25 ±0.2)	0.033 ±0.008 (0.85 ±0.2)	0.020 ±0.012 (0.5 ±0.3)
0805 **(4R7M~100M)**	0.079 +0.012 -0.004 (2.0 +0.3/-0.1)	0.049 ±0.008 (1.25 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.020 ±0.012 (0.5 ±0.3)
0806 **(2R2M~ 4R7M)**	0.079 ±0.008 (2.0 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.039 (1.0)	0.02 ±0.012 (0.5 ±0.3)

Size	Inductance (µH)	Tolerance	Test Frequency (MHz)	Q (min.)	Max. DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
								1	10	100		Qty.	Pricing	
0603	4.7	±20%	4	20	.50	60	587-1683-1-ND	.43	3.41	17.83	587-1683-2-ND	4,000	57.00/M	CK16084R7M-T
	10	±20%	2	20	.85	40	587-1684-1-ND	.43	3.41	17.83	587-1684-2-ND	4,000	57.00/M	CK1608100M-T
0805	.10	±20%	25	15	.16	500	587-1685-1-ND	.46	3.45	16.10	587-1685-2-ND	4,000	46.00/M	CK2125R10M-T
	.22	±20%	25	15	.23	400	587-1686-1-ND	.46	3.45	16.10	587-1686-2-ND	4,000	46.00/M	CK2125R22M-T
	.47	±20%	25	15	.32	400	587-1687-1-ND	.46	3.45	16.10	587-1687-2-ND	2,000	51.00/M	CK2125R47M-T
	1.0	±20%	10	20	.26	220	587-1688-1-ND	.46	3.45	16.10	587-1688-2-ND	4,000	46.00/M	CK21251R0M-T
	1.0	±20%	10	—	.26	220	587-2609-1-ND ***NEW!***	.38	2.97	15.53	587-2609-2-ND ***NEW!***	2,000	54.00/M	CKS21251R0M-T
	2.2	±20%	10	20	.35	150	587-1689-1-ND	.46	3.45	16.10	587-1689-2-ND	4,000	46.00/M	CK21252R2M-T
	2.2	±20%	10	—	.35	150	587-2610-1-ND ***NEW!***	.38	2.97	15.53	587-2610-2-ND ***NEW!***	4,000	49.95/M	CKS21252R2M-T
	4.7	±20%	10	20	.48	120	587-1690-1-ND	.46	3.45	16.10	587-1690-2-ND	2,000	51.00/M	CK21254R7M-T
	4.7	±20%	10	—	.48	120	587-2611-1-ND ***NEW!***	.38	2.97	15.53	587-2611-2-ND ***NEW!***	2,000	54.00/M	CKS21254R7M-T
	10	±20%	2	20	.65	60	587-1691-1-ND	.46	3.45	16.10	587-1691-2-ND	2,000	51.00/M	CK2125100M-T
	10	±20%	2	—	.65	60	587-2608-1-ND ***NEW!***	.38	2.97	15.53	587-2608-2-ND ***NEW!***	2,000	54.00/M	CKS2125100M-T
0806	2.2	±20%	1	—	.14	120	587-2606-1-ND ***NEW!***	.65	5.43	34.02	587-2606-2-ND ***NEW!***	3,000	129.60/M	CKP20162R2M-T
	4.7	±20%	1	—	.20	900	587-2607-1-ND ***NEW!***	.65	5.43	34.02	587-2607-2-ND ***NEW!***	3,000	129.60/M	CKP20164R7M-T

AQ Series

Features: • High Q and high SRF suitable for high frequency circuit • Excellent mount ability and heat resistance suitable for replacement of wire wound inductors • Monolithic structure provides high reliability

Applications: • Mobile telephone, wireless LAN • High frequency module • Tuner • High frequency circuits

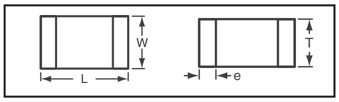

Size	Dimensions in Inch (mm)			
	L	W	T	e
0402	0.039 ±0.002 (1.0 ±0.05)	0.024 ±0.004 (0.6 ±0.1)	0.020 ±0.002 (0.5 ±0.05)	0.007 ±0.003 (0.175 ±0.075)

Size	Inductance (nH)	Tolerance	Q (min.)	Max. DC Resistance (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 10,000	Taiyo Yuden Part No.
							1	10	100			
0402	1.0	±0.3nH	8	0.07	710	587-1970-1-ND	.38	2.97	15.53	587-1970-2-ND	47.00/M	AQ1051N0S-T
	1.2	±0.3nH	8	0.07	710	587-1971-1-ND	.38	2.97	15.53	587-1971-2-ND	47.00/M	AQ1051N2S-T
	1.5	±0.3nH	8	0.07	710	587-1972-1-ND	.38	2.97	15.53	587-1972-2-ND	47.00/M	AQ1051N5S-T
	2.0	±0.3nH	8	0.08	660	587-1974-1-ND	.38	2.97	15.53	587-1974-2-ND	47.00/M	AQ1052N0S-T
	2.2	±0.3nH	8	0.08	660	587-1975-1-ND	.38	2.97	15.53	587-1975-2-ND	47.00/M	AQ1052N2S-T
	2.4	±0.3nH	8	0.09	630	587-1976-1-ND	.38	2.97	15.53	587-1976-2-ND	47.00/M	AQ1052N4S-T
	2.7	±0.3nH	8	0.09	630	587-1977-1-ND	.38	2.97	15.53	587-1977-2-ND	47.00/M	AQ1052N7S-T
	3.0	±0.3nH	8	0.11	570	587-1978-1-ND	.38	2.97	15.53	587-1978-2-ND	47.00/M	AQ1053N0S-T
	3.3	±0.3nH	8	0.12	540	587-1979-1-ND	.38	2.97	15.53	587-1979-2-ND	47.00/M	AQ1053N3S-T
	4.3	±0.3nH	8	0.16	470	587-1982-1-ND	.38	2.97	15.53	587-1982-2-ND	47.00/M	AQ1054N3S-T
	7.5	±5%	8	0.25	370	587-1988-1-ND	.30	2.39	12.51	—	—	AQ1057N5J-T
	9.1	±5%	8	0.29	350	587-1990-1-ND	.38	2.97	15.53	587-1990-2-ND	47.00/M	AQ1059N1J-T
	10.0	±5%	8	0.31	330	587-1967-1-ND	.38	2.97	15.53	587-1967-2-ND	47.00/M	AQ10510NJ-T

587-1991-ND (TAIYO-AQ105-V1)	20 each of 24 values (480 total pieces)……	**$60.00**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

TAIYO YUDEN

Wound Chip Power Inductors

CB Series

The CB Series wound chip inductors can be used for small DC/DC converters and are suited for choke uses.
Applications: • DSC/DVC/HDD • LCD • Portable telephones • Game equipment • Various audio-visual equipment • Various communication equipment

Type	Dimensions – Inch (mm) L	W	T	e
CBC3225	0.126 ±0.008 (3.2 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.024 ±0.012 (0.6 ±0.3)
CB2518, CBC2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CB2016, CBC2016	0.079 ±0.008 (2.0 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CB2012, CBC2012	0.079 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
CBL2012	0.079 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.035 ±0.004 (0.9 ±0.1)	0.020 ±0.008 (0.5 ±0.2)
CBMF1608	0.063 ±0.2 (1.6 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.015 ±0.006 (0.4 ±0.15)

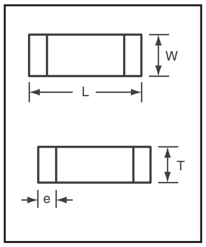

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
CBC3225 Type										
1.0	20%	715	1,440	587-1622-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T1R0MR
2.2	20%	104	1,130	587-1623-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T2R2MR
4.7	20%	130	1,010	587-1624-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T4R7MR
10	20%	172.9	900	587-1625-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T100MR
22	20%	351	780	587-1626-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T220MR
47	20%	871	480	587-1627-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T470MR
100	20%	1,820	340	587-1628-1-ND†§	.64	5.06	30.50	1,000	116.00	CBC3225T101MR
CB2518 Type										
1.0	20%	60	1,500	587-2184-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T1R0M
1.5	20%	70	1,400	587-2185-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T1R5M
2.2	20%	90	1,300	587-2244-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T2R2M
3.3	20%	110	1,200	587-2186-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T3R3M
4.7	20%	100	1,200	587-2187-1-ND†	.48	3.74	19.55	2,000	68.00/M	CB2518T4R7MR
4.7	20%	130	1,100	587-2245-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T4R7M
6.8	20%	150	930	587-2188-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T6R8M
10	10%	250	820	587-2189-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T100K
22	10%	500	580	587-2190-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T220K
47	10%	950	420	587-2191-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T470K
100	10%	1,200	260	587-2192-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T101K
220	10%	4,500	180	587-2193-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T221K
470	10%	10,000	120	587-2194-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T471K
1000	10%	24,000	75	587-2195-1-ND	.48	3.74	19.55	2,000	68.00/M	CB2518T102K
CBC2518 Type										
1.0	20%	104	1,200	587-1615-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T1R0M
2.2	20%	169	1,100	587-1618-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T2R2M
4.7	20%	260	920	587-1621-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T4R7M
10	20%	468	680	587-1613-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T100M
22	20%	1,001	460	587-1616-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T220M
47	20%	2,470	290	587-1619-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T470M
220	20%	10,920	110	587-1617-1-ND§	.42	3.32	20.00	2,000	72.00/M	CBC2518T221M
NEW! CB2016 Type NEW!										
1.0	20%	117	1,100	587-2464-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T1R0M
1.5	20%	143	1,000	587-2467-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T1R5M
2.2	20%	169	1,000	587-2528-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T2R2M
3.3	20%	260	800	587-2468-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T3R3M
4.7	20%	325	740	587-2529-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T4R7M
6.8	20%	455	600	587-2469-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T6R8M
10	10%	650	520	587-2462-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T100K
15	10%	910	440	587-2470-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T150K
22	10%	1,300	370	587-2465-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T220K
33	10%	2,210	270	587-2472-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T330K
47	10%	3,120	240	587-2466-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T470K
68	10%	3,900	210	587-2471-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T680K
100	10%	5,850	170	587-2463-1-ND	.48	3.82	23.00	2,000	82.80/M	CB2016T101K
CBC2016 Type										
1.0	20%	130	1,100	587-1608-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T1R0M
2.2	20%	260	720	587-1610-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T2R2M
4.7	20%	481	530	587-1612-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T4R7M
10	20%	1,066	350	587-1606-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T100M
22	20%	2,340	240	587-1609-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T220M
47	20%	5,590	150	587-1611-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T470M
100	20%	10,400	110	587-1607-1-ND§	.50	3.98	24.00	2,000	86.00/M	CBC2016T101M
NEW! CB2012 Type NEW!										
1.0	20%	195	900	587-2454-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T1R0M
2.2	20%	299	770	587-2526-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T2R2M
3.3	20%	390	650	587-2458-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T3R3M
4.7	20%	520	580	587-2527-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T4R7M
6.8	20%	611	540	587-2459-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T6R8M
10	10%	910	440	587-2457-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T100K
10	10%	650	520	587-2452-1-ND†	.47	3.74	22.50	3,000	81.00/M	CB2012T100KR
15	10%	1,690	320	587-2460-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T150K
22	10%	2,210	280	587-2455-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T220K
47	10%	4,810	190	587-2456-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T470K
68	10%	7,800	140	587-2461-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T680K
100	10%	9,100	130	587-2453-1-ND	.47	3.74	22.50	3,000	81.00/M	CB2012T101K
CBC2012 Type										
1.0	20%	247	840	587-1600-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T1R0M
2.2	20%	429	640	587-1601-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T2R2M
4.7	20%	650	520	587-1602-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T4R7M
10	20%	1,560	340	587-1603-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T100M
22	20%	4,810	190	587-1604-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T220M
47	20%	7,540	150	587-1605-1-ND§	.49	3.90	23.50	3,000	85.00/M	CBC2012T470M
CBL2012 Type										
1.0	20%	195	950	587-1629-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T1R0M
2.2	20%	507	590	587-1630-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T2R2M
4.7	20%	858	490	587-1631-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T4R7M
10	20%	1,300	370	587-1632-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T100M
22	20%	2,730	250	587-1633-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T220M
47	20%	5,460	140	587-1634-1-ND	.58	4.57	27.50	4,000	94.00/M	CBL2012T470M
CBMF1608 Type										
1.0	20%	117	770	587-1717-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T1R0M
2.2	20%	221	560	587-1718-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T2R2M
4.7	20%	312	470	587-1719-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T4R7M
10	10%	468	380	587-1720-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T100K
22	10%	1,300	230	587-1721-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T220K
47	10%	3,250	140	587-1722-1-ND	.55	4.32	26.00	3,000	94.00/M	CBMF1608T470K

‡ For Tape and Reel part number, change the 1-ND to 2-ND. † Low RDC Type

§ 587-1796-ND (TAIYO-CBCCOIL-V1)	5 each of values denoted plus value; 470µH not stocked by Digi-Key (145 total pieces)	**$60.00**

BR Series

The best efficiency design is achieved by adopting bottom-surface electrode structure. Small and low-profile wound chip inductors are suited for module design which needs high electric current like DC/DC converters.
Applications: • Small DC/DC converters in cell phones • HDD, DVC, DSC, PDA, LCD displays

Type	Dimensions – Inch (mm) L	W	H	e
BRC1608	0.063 ±0.008 (1.6 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.016 ±0.006 (0.45 ±0.15)
BRL2012	0.078 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.040 max. (1.0 max.)	0.020 ±0.008 (0.5 ±0.2)
BRC2016	0.078 ±0.008 (2.0 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
BRL2515	0.098 ±0.008 (2.5 ±0.2)	0.059 ±0.008 (1.5 ±.02)	0.048 max. (1.2 max.)	0.020 ±0.008 (0.5 ±0.2)
BRC2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
BRL2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.048 max. (1.2 max.)	0.020 ±0.008 (0.5 ±0.2)
BRFL2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.040 max. (1.0 max.)	0.020 ±0.008 (0.5 ±0.2)
BRL3225	0.126 ±0.008 (3.2 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.068 max. (1.7 max.)	0.03 ±0.008 (0.75 ±0.2)

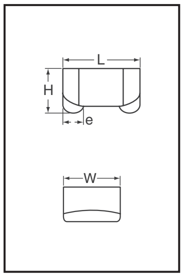

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
BRC1608 Type										
0.2	20%	78	980	587-2056-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608TR20M
0.35	20%	104	810	587-2057-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608TR35M
0.45	20%	117	800	587-2058-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608TR45M
0.56	20%	123.5	760	587-2059-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608TR56M
0.77	20%	143	660	587-2060-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608TR77M
1.0	20%	234	520	587-2061-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608T1R0M
2.2	20%	715	280	587-2062-1-ND	.58	4.82	30.24	3,000	115.00/M	BRC1608T2R2M
BRL2012 Type										
1.0	20%	175.5	850	587-2063-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T1R0M
2.2	20%	390	550	587-2064-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T2R2M
4.7	20%	715	400	587-2065-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T4R7M
10	20%	1,105	330	587-2066-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T100M
22	20%	1,690	270	587-2067-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T220M
47	20%	4,550	160	587-2068-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T470M
100	20%	10,010	85	587-2069-1-ND	.66	5.23	31.50	3,000	113.00/M	BRL2012T101M
BRC2016 Type										
1.0	20%	110.5	1,100	587-2171-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T1R0M
1.5	20%	195	820	587-2172-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T1R5M
2.2	20%	234	760	587-2173-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T2R2M
3.3	20%	286	680	587-2174-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T3R3M
4.7	20%	351	610	587-2175-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T4R7M
6.8	20%	429	560	587-2176-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T6R8M
10	10%	520	520	587-2177-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T100K
22	10%	1,300	310	587-2178-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T220K
47	10%	2,860	210	587-2179-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T470K
100	10%	4,420	170	587-2180-1-ND	.65	5.15	31.00	2,000	112.00/M	BRC2016T101K
NEW! BRL2515 Type NEW!										
1.0	20%	91	1,350	587-2601-1-ND	.72	5.73	34.50	3,000	124.20/M	BRL2515T1R0M
1.5	20%	130	1,150	587-2602-1-ND	.72	5.73	34.50	3,000	124.20/M	BRL2515T1R5M
2.2	20%	175.5	1,000	587-2603-1-ND	.72	5.73	34.50	3,000	124.20/M	BRL2515T2R2M
3.3	20%	279.5	750	587-2604-1-ND	.72	5.73	34.50	3,000	124.20/M	BRL2515T3R3MD
4.7	20%	344.5	700	587-2605-1-ND	.72	5.73	34.50	3,000	124.20/M	BRL2515T4R7MD
NEW! BRC2518 Type NEW!										
1.0	20%	65	1,650	587-2437-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T1R0M
1.5	20%	104	1,300	587-2438-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T1R5M
2.2	20%	156	1,000	587-2440-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T2R2M
3.3	20%	228	860	587-2442-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T3R3M
4.7	20%	299	750	587-2444-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T4R7M
6.8	20%	364	680	587-2446-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T6R8M
10	10%	455	610	587-2434-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T100K
15	10%	559	550	587-2436-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T150K
22	10%	728	490	587-2439-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T220K
33	10%	1,105	390	587-2441-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T330K
47	10%	1,885	300	587-2443-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T470K
68	10%	3,120	230	587-2445-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T680K
100	10%	4,680	190	587-2435-1-ND	.71	5.64	34.00	2,000	122.40/M	BRC2518T101K
BRL2518 Type										
1.0	20%	104	1,000	587-1952-1-ND	.57	4.76	29.82	3,000	114.00/M	BRL2518T1R0M
2.2	20%	175.5	850	587-1954-1-ND	.72	5.73	34.50	3,000	124.00/M	BRL2518T2R2M
3.3	20%	390	580	587-1955-1-ND	.57	4.76	29.82	3,000	114.00/M	BRL2518T3R3M
NEW! BRFL2518 Type NEW!										
1.0	20%	90	1,200	587-2570-1-ND	.72	5.73	34.50	3,000	124.20/M	BRFL2518T1R0M
1.5	20%	110	1,000	587-2571-1-ND	.72	5.73	34.50	3,000	124.20/M	BRFL2518T1R5M

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Wound Chip Power Inductors — BR Series *(Cont.)*

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
2.2	20%	130	950	587-2572-1-ND	.72	5.73	34.50	3,000	124.20/M	BRFL2518T2R2M
3.3	20%	220	700	587-2573-1-ND	.72	5.73	34.50	3,000	124.20/M	BRFL2518T3R3M
4.7	20%	330	650	587-2574-1-ND	.72	5.73	34.50	3,000	124.20/M	BRFL2518T4R7M
BRL3225 Type										
1.0	20%	52	2,200	587-2164-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T1R0M
2.2	20%	78	1,600	587-2165-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T2R2M
4.7	20%	216	1,000	587-2166-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T4R7M
10	10%	420	700	587-2167-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T100K
22	10%	828	470	587-2168-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T220K
47	10%	1,200	390	587-2169-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T470K
100	10%	3,000	250	587-2170-1-ND	.58	4.57	27.50	2,000	99.00/M	BRL3225T101K

‡ For Tape and Reel part number, change 1-ND to 2-ND.

LB Series

The LBMF Series wound chip inductor covers customers' wide range module design by wide-line-up shape, standard, low Rdc, and high electric current series. The LBM2016 Series High Q and narrow tolerance are achieved by adopting bottom-surface electrode structure. Wound chip inductors are suited for module design of signal line uses. The LBC Series has super high Idc and low Rdc characteristics. The LB/LBR Series features super low Rdc and high Idc characteristics.

Applications: • DSC/DVC/HDD • LCD • Portable telephones • Game equipment • Various audio-visual equipment • Various communication equipment

Type	Dimensions – Inch (mm)			
	L	W	T	e
LBC3225	0.128 ±0.008 (3.2 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.098 ±0.008 (2.5 ±0.2)	0.024 ±0.012 (0.6 ±0.3)
LB3218	0.128 ±0.008 (3.2 ±0.2)	0.072 ±0.008 (1.8 ±0.2)	0.072 ±0.008 (1.8 ±0.2)	0.024 ±0.008 (0.6 ±0.2)
LB2518, LBC2518, LBR2518	0.098 ±0.008 (2.5 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.071 ±0.008 (1.8 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
LB2016, LBC2016, LBM2016	0.08 ±0.008 (2.0 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.063 ±0.008 (1.6 ±0.2)	0.020 ±0.004 (0.5 ±0.2)
LB2012, LBC2012, LBR2012	0.079 ±0.008 (2.0 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.049 ±0.008 (1.25 ±0.2)	0.020 ±0.008 (0.5 ±0.2)
LB1608	0.063 ±0.004 (1.6 ±0.1)	0.031 ±0.004 (0.8 ±0.1)	0.031 ±0.004 (0.8 ±0.1)	0.014 ±0.006 (0.35 ±0.15)
LBMF1608	0.063 ±0.008 (1.6 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.031 ±0.008 (0.8 ±0.2)	0.016 ±0.006 (0.4 ±0.15)

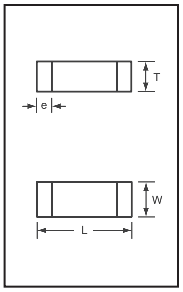

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
NEW! LBC3225 Type NEW!										
1.0	20%	71.5	1,100	587-2424-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T1R0MR
1.5	20%	78	1,000	587-2425-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T1R5MR
2.2	20%	104	930	587-2427-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T2R2MR
3.3	20%	123.5	820	587-2429-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T3R3MR
4.7	20%	130	680	587-2431-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T4R7MR
6.8	20%	156	620	587-2433-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T6R8MR
10	10%	172.9	540	587-2421-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T100KR
15	10%	253.5	420	587-2423-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T150KR
22	10%	351	330	587-2426-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T220KR
33	10%	533	300	587-2428-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T330KR
47	10%	871	220	587-2430-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T470KR
68	10%	1,300	190	587-2432-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T680KR
100	10%	1,820	150	587-2422-1-ND†	.50	3.96	20.70	1,000	75.60	LBC3225T101KR
LB3218 Type										
1.0	20%	78	1,075	587-2032-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T1R0M
2.2	20%	117	775	587-2033-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T2R2M
4.7	20%	169	550	587-2034-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T4R7M
10	10%	325	340	587-2035-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T100K
22	10%	637	255	587-2036-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T220K
47	10%	1,196	205	587-2037-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T470K
100	10%	3,120	140	587-2038-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T101K
220	10%	7,020	80	587-2039-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T221K
470	10%	18,200	54	587-2040-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T471K
1,000	10%	35,100	39	587-2041-1-ND	.43	3.41	17.83	2,000	62.00/M	LB3218T102K
NEW! LB2518 Type NEW!										
1.0	20%	78	665	587-2512-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T1R0M
1.5	20%	91	405	587-2513-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T1R5M
2.2	20%	117	340	587-2516-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T2R2M
3.3	20%	143	280	587-2519-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T3R3M
4.7	20%	169	240	587-2522-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T4R7M
4.7	20%	130	235	587-2451-1-ND†	.40	3.14	16.39	2,000	57.00/M	LB2518T4R7MR
6.8	20%	195	195	587-2525-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T6R8M
10	10%	325	165	587-2507-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T100K
15	10%	416	145	587-2510-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T150K
22	10%	650	115	587-2514-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T220K
33	10%	910	95	587-2517-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T330K
47	10%	1,235	85	587-2520-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T470K
68	10%	1,950	70	587-2523-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T680K
100	10%	2,730	60	587-2508-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T101K
150	10%	4,160	45	587-2511-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T151K
220	10%	5,850	40	587-2515-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T221K
330	10%	9,100	30	587-2518-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T331K
470	10%	13,000	25	587-2521-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T471K
680	10%	22,100	20	587-2524-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T681K
1,000	10%	31,200	15	587-2509-1-ND	.40	3.14	16.39	2,000	57.00/M	LB2518T102K
LBC2518 Type										
2.2	20%	169	630	587-1934-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T2R2M
4.7	20%	260	510	587-1935-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T4R7M
10	10%	468	375	587-1936-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T100K
22	10%	1,001	250	587-1937-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T220K
33	20%	1,950	185	587-2256-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T330M
47	10%	2,470	165	587-1938-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T470K
100	10%	4,810	125	587-1939-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T101K
220	10%	10,920	80	587-1940-1-ND	.46	3.63	18.98	2,000	66.00/M	LBC2518T221K
LBR2518 Type										
1.0	20%	58.5	960	587-2049-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T1R0M
2.2	20%	91	480	587-2050-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T2R2M
4.7	20%	130	345	587-2051-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T4R7M
10	10%	247	235	587-2052-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T100K
22	10%	572	175	587-2053-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T220K
47	10%	1,092	120	587-2054-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T470K
100	10%	2,457	80	587-2055-1-ND	.39	3.08	16.10	2,000	56.00/M	LBR2518T101K
NEW! LB2016 Type NEW!										
1.0	20%	117	490	587-2497-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T1R0M
1.5	20%	143	380	587-2498-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T1R5M
2.2	20%	169	375	587-2500-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T2R2M
3.3	20%	260	285	587-2502-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T3R3M
4.7	20%	325	225	587-2504-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T4R7M
6.8	20%	455	200	587-2506-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T6R8M
10	10%	650	155	587-2494-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T100K
15	10%	910	130	587-2496-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T150K
22	10%	1,300	105	587-2499-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T220K
33	10%	2,210	85	587-2501-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T330K
47	10%	3,120	70	587-2503-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T470K
68	10%	3,900	55	587-2505-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T680K
100	10%	5,850	40	587-2495-1-ND	.43	3.41	17.83	2,000	62.00/M	LB2016T101K
NEW! LBC2016 Type NEW!										
1.0	20%	130	690	587-2539-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T1R0M
1.5	20%	195	600	587-2540-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T1R5M
2.2	20%	260	520	587-2542-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T2R2M
3.3	20%	351	410	587-2473-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T3R3M
4.7	20%	481	355	587-2545-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T4R7M
6.8	20%	767	290	587-2547-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T6R8M
10	10%	1,066	245	587-2536-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T100K
15	10%	1,560	200	587-2538-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T150K
22	10%	2,340	165	587-2541-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T220K
33	10%	3,640	135	587-2543-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T330K
47	10%	5,590	110	587-2544-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T470K
68	10%	9,100	95	587-2546-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T680K
100	10%	10,400	75	587-2537-1-ND	.49	3.85	20.13	2,000	70.00/M	LBC2016T101K
LBM2016 Type										
0.15	5%	195	570	587-1800-1-ND	.42	3.28	17.15	—	—	LBM2016TR15J
0.22	5%	260	520	587-1801-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016TR22J
0.68	5%	416	400	587-1804-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016TR68J
1.0	5%	494	385	587-1805-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T1R0J
1.5	5%	611	350	587-1806-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T1R5J
2.2	5%	702	340	587-1807-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T2R2J
3.3	5%	884	290	587-1808-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T3R3J
4.7	5%	1,014	270	587-1809-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T4R7J
6.8	5%	1,261	240	587-1810-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T6R8J
10	5%	1,560	215	587-1811-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T100J
15	5%	1,950	190	587-1812-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T150J
47	5%	5,330	115	587-1815-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T470J
68	5%	9,100	90	587-1816-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T680J
100	5%	10,400	80	587-1817-1-ND	.52	4.07	21.28	2,000	74.00/M	LBM2016T101J
NEW! LB2012 Type NEW!										
1.0	20%	195	405	587-2489-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T1R0M
2.2	20%	299	260	587-2491-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T2R2M
3.3	20%	390	235	587-2447-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T3R3M
4.7	20%	520	190	587-2493-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T4R7M
6.8	20%	611	135	587-2448-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T6R8M
10	10%	910	120	587-2486-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T100K
10	10%	650	120	587-2487-1-ND†	.43	3.41	17.83	3,000	62.00/M	LB2012T100KR
15	10%	1,690	100	587-2449-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T150K
22	10%	2,210	80	587-2490-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T220K
47	10%	4,810	60	587-2492-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T470K
68	10%	7,800	50	587-2450-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T680K
100	10%	9,100	45	587-2488-1-ND	.43	3.41	17.83	3,000	62.00/M	LB2012T101K
NEW! LBC2012 Type NEW!										
1.0	20%	247	620	587-2531-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T1R0M
2.2	20%	429	430	587-2533-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T2R2M
4.7	20%	650	295	587-2535-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T4R7M
10	10%	1,560	200	587-2530-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T100K
22	10%	4,810	130	587-2532-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T220K
47	10%	7,540	90	587-2534-1-ND	.50	3.96	20.70	3,000	72.00/M	LBC2012T470K
LBR2012 Type										
1.0	20%	91	400	587-2042-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T1R0M
2.2	20%	169	260	587-2043-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T2R2M
4.7	20%	312	200	587-2044-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T4R7M
10	10%	468	150	587-2045-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T100K
22	10%	1,300	100	587-2046-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T220K
47	10%	2,210	75	587-2047-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T470K
100	10%	5,200	50	587-2048-1-ND	.35	2.75	14.38	3,000	50.00/M	LBR2012T101K
LB1608 Type										
1.0	20%	221	160	587-2160-1-ND	.58	4.57	27.50	4,000	94.00/M	LB1608T1R0M
2.2	20%	429	115	587-2161-1-ND	.58	4.57	27.50	4,000	94.00/M	LB1608T2R2M
4.7	20%	715	70	587-2162-1-ND	.58	4.57	27.50	4,000	94.00/M	LB1608T4R7M
8.2	20%	910	60	587-2163-1-ND	.58	4.57	27.50	4,000	94.00/M	LB1608T8R2M
10	20%	910	60	587-2243-1-ND	.58	4.57	27.50	4,000	94.00/M	LB1608T100M
LBMF1608 Type										
1.0	20%	117	230	587-1711-1-ND	.47	3.74	22.50	3,000	81.00/M	LBMF1608T1R0M
2.2	20%	221	160	587-1712-1-ND	.38	3.02	18.18	3,000	81.00/M	LBMF1608T2R2M
4.7	20%	312	110	587-1713-1-ND	.47	3.74	22.50	3,000	81.00/M	LBMF1608T4R7M
10	10%	468	80	587-1714-1-ND	.47	3.74	22.50	3,000	81.00/M	LBMF1608T100K
22	10%	1,300	50	587-1715-1-ND	.47	3.74	22.50	3,000	81.00/M	LBMF1608T220K
47	10%	3,250	35	587-1716-1-ND	.47	3.74	22.50	3,000	81.00/M	LBMF1608T470K

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Low RDC Type

(Continued)

TAIYO YUDEN

Wound Chip Power Inductors *(Cont.)*

NR, NRH, NRG and NRS Series

Features:

• Small and low profile inductors • Corresponds to high current • Simple and original magnetic shield structure • Structure is strong against shock

Applications:

• Small DC/DC converters in cell phones • HDD, DVC, DSC, PDA, LCD displays

NRH2410, NR3010, NRH3010, NR3012, NRH3012, NR3015, NR4010, NR4012, NR4018, NRG4026, NR8040 Types

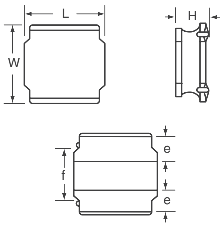

NRS5012, NR5014, NRS5020, NR5040, NRS6010, NR6012, NR6020, NR6028, NR6045 Types

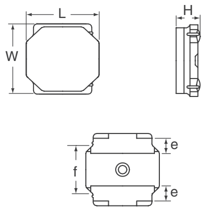

Type	Dimensions – Inch (mm) L	W	H (Max.)	e	f
NRH2410	0.095 ±0.004 (2.4 ±0.1)	0.095 ±0.004 (2.4 ±0.1)	0.039 (1.0)	0.024 ±0.008 (0.6 ±0.2)	0.057 ±0.008 (1.45 ±0.2)
NR3010/ NRH3010	0.118 ±0.004 (3.0 ±0.1)	0.118 ±0.004 (3.0 ±0.1)	0.039 (1.0)	0.035 ±0.008 (0.9 ±0.2)	0.075 ±0.008 (1.9 ±0.2)
NR3012/ NRH3012	0.118 ±0.004 (3.0 ±0.1)	0.118 ±0.004 (3.0 ±0.1)	0.047 (1.2)	0.035 ±0.008 (0.9 ±0.2)	0.075 ±0.008 (1.9 ±0.2)
NR3015	0.118 ±0.004 (3.0 ±0.1)	0.118 ±0.004 (3.0 ±0.1)	0.059 (1.5)	0.035 ±0.008 (0.9 ±0.2)	0.075 ±0.008 (1.9 ±0.2)
NR4010	0.157 ±0.008 (4.0 ±0.2)	0.157 ±0.008 (4.0 ±0.2)	0.039 (1.0)	0.043 ±0.008 (1.1 ±0.2)	0.098 ±0.008 (2.5 ±0.2)
NR4012	0.157 ±0.008 (4.0 ±0.2)	0.157 ±0.008 (4.0 ±0.2)	0.047 (1.2)	0.043 ±0.008 (1.1 ±0.2)	0.098 ±0.008 (2.5 ±0.2)
NR4018	0.157 ±0.008 (4.0 ±0.2)	0.157 ±0.008 (4.0 ±0.2)	0.071 (1.8)	0.043 ±0.008 (1.1 ±0.2)	0.098 ±0.008 (2.5 ±0.2)
NRG4026	0.157 ±0.008 (4.0 ±0.2)	0.157 ±0.008 (4.0 ±0.2)	0.102 (2.6)	0.043 ±0.008 (1.1 ±0.2)	0.098 ±0.008 (2.5 ±0.2)
NRS5012	0.193 ±0.008 (4.9 ±0.2)	0.193 ±0.008 (4.9 ±0.2)	0.047 (1.2)	0.047 ±0.008 (1.2 ±0.2)	0.130 ±0.008 (3.3 ±0.2)
NRS5014	0.193 ±0.008 (4.9 ±0.2)	0.193 ±0.008 (4.9 ±0.2)	0.055 (1.4)	0.047 ±0.008 (1.2 ±0.2)	0.130 ±0.008 (3.3 ±0.2)
NRS5020	0.193 ±0.008 (4.9 ±0.2)	0.193 ±0.008 (4.9 ±0.2)	0.079 (2.0)	0.047 ±0.008 (1.2 ±0.2)	0.130 ±0.008 (3.3 ±0.2)
NR5040 (1.5 ~ 10µH)	0.193 ±0.008 (4.9 ±0.2)	0.193 ±0.008 (4.9 ±0.2)	0.161 (4.1)	0.047 ±0.008 (1.2 ±0.2)	0.130 ±0.008 (3.3 ±0.2)
NR5040 (15 ~ 47µH)	0.193 ±0.008 (4.9 ±0.2)	0.193 ±0.008 (4.9 ±0.2)	0.157 (4.0)	0.047 ±0.008 (1.2 ±0.2)	0.130 ±0.008 (3.3 ±0.2)
NRS6010	0.236 ±0.008 (6.0 ±0.2)	0.236 ±0.008 (6.0 ±0.2)	0.039 (1.0)	0.053 ±0.008 (1.35 ±0.2)	0.157 ±0.008 (4.0 ±0.2)
NR6012	0.236 ±0.008 (6.0 ±0.2)	0.236 ±0.008 (6.0 ±0.2)	0.047 (1.2)	0.053 ±0.008 (1.35 ±0.2)	0.157 ±0.008 (4.0 ±0.2)
NR6020	0.236 ±0.008 (6.0 ±0.2)	0.236 ±0.008 (6.0 ±0.2)	0.078 (2.0)	0.053 ±0.008 (1.35 ±0.2)	0.157 ±0.008 (4.0 ±0.2)
NR6028	0.236 ±0.008 (6.0 ±0.2)	0.236 ±0.008 (6.0 ±0.2)	0.110 (2.8)	0.053 ±0.008 (1.35 ±0.2)	0.157 ±0.008 (4.0 ±0.2)
NR6045	0.236 ±0.008 (6.0 ±0.2)	0.236 ±0.008 (6.0 ±0.2)	0.177 (4.5)	0.053 ±0.008 (1.35 ±0.2)	0.157 ±0.008 (4.0 ±0.2)
NR8040 (0.9 ~ 6.8µH)	0.315 ±0.008 (8.0 ±0.2)	0.315 ±0.008 (8.0 ±0.2)	0.165 (4.2)	0.063 ±0.012 (1.6 ±0.3)	0.220 ±0.012 (5.6 ±0.3)
NR8040 (10 ~ 100µH)	0.315 ±0.008 (8.0 ±0.2)	0.315 ±0.008 (8.0 ±0.2)	0.157 (4.0)	0.063 ±0.012 (1.6 ±0.3)	0.220 ±0.012 (5.6 ±0.3)

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Taiyo Yuden Part No.
NEW! NRH2410 Type NEW!										
0.68	30%	72	1,570	587-2392-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410TR68NN4
1.0	30%	84	1,410	587-2385-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T1R0NN4
1.5	20%	132	1,160	587-2386-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T1R5MN
2.2	20%	150	970	587-2388-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T2R2MN
3.3	20%	264	770	587-2389-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T3R3MN
4.7	20%	348	670	587-2390-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T4R7MN
6.8	20%	410	570	587-2391-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T6R8MN
10	20%	828	450	587-2384-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T100MN
15	20%	1,224	370	587-2640-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T150MN
22	20%	1,764	300	587-2387-1-ND	.72	6.03	37.80	2,500	144.00/M	NRH2410T220MN
NR3010 Type										
1.0	30%	78	1,400	587-1636-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T1R0N
1.5	30%	80	1,300	587-2645-1-ND✓	.72	6.03	37.80	2,000	144.00/M	NR3010T1R5N
2.2	20%	114	1,100	587-1638-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T2R2M
4.7	20%	228	780	587-1640-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T4R7M
10	20%	540	510	587-1635-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T100M
15	20%	740	400	587-2644-1-ND✓	.72	6.03	37.80	2,000	144.00/M	NR3010T150M
22	20%	1,236	350	587-1637-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T220M
33	20%	1,550	275	587-2646-1-ND✓	.72	6.03	37.80	2,000	144.00/M	NR3010T330M
47	20%	2,460	235	587-1639-1-ND	.72	6.03	37.80	2,000	144.00/M	NR3010T470M
NEW! NRH3010 Type NEW!										
1.2	30%	65	1,480	587-2577-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T1R2NN
1.5	30%	75	1,370	587-2578-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T1R5NN
2.2	20%	83	1,300	587-2580-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T2R2MN
3.3	20%	130	1,030	587-2581-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T3R3MN
4.7	20%	170	900	587-2582-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T4R7MN
6.8	20%	250	745	587-2583-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T6R8MN
10	20%	350	620	587-2575-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T100MN
15	20%	550	480	587-2576-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T150MN
22	20%	770	410	587-2579-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3010T220MN
NR3012 Type										
1.0	30%	60	1,490	587-1641-1-ND	.68	5.70	35.70	2,000	136.00/M	NR3012T1R0N
1.5	30%	60	1,400	587-2648-1-ND✓	.68	5.70	35.70	2,000	136.00/M	NR3012T1R5N
2.2	20%	96	1,200	587-1642-1-ND	.68	5.70	35.70	2,000	136.00/M	NR3012T2R2M
4.7	20%	156	980	587-1643-1-ND	.68	5.70	35.70	2,000	136.00/M	NR3012T4R7M
6.8	20%	190	740	587-2650-1-ND✓	.68	5.70	35.70	2,000	136.00/M	NR3012T6R8M
10	20%	348	630	587-1644-1-ND	.68	5.70	35.70	2,000	136.00/M	NR3012T100M
15	20%	450	485	587-2647-1-ND✓	.68	5.70	35.70	2,000	136.00/M	NR3012T150M
22	20%	756	420	587-1645-1-ND	.68	5.70	35.70	2,000	136.00/M	NR3012T220M
33	20%	1,030	330	587-2649-1-ND✓	.68	5.70	35.70	2,000	136.00/M	NR3012T330M
NEW! NRH3012 Type NEW!										
1	30%	48	1,710	587-2586-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T1R0NN
1.5	30%	55	1,600	587-2587-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T1R5NN
2.2	20%	75	1,370	587-2589-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T2R2MN
3.3	20%	100	1,210	587-2590-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T3R3MN
4.7	20%	130	1,060	587-2591-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T4R7MN
6.8	20%	190	890	587-2592-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T6R8MN
10	20%	270	720	587-2584-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T100MN
15	20%	450	570	587-2585-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T150MN
22	20%	630	500	587-2588-1-ND	.65	5.43	34.02	2,000	129.60/M	NRH3012T220MN
NR3015 Type										
1.0	30%	36	2,100	587-1647-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T1R0N
1.5	30%	40	1,820	587-2617-1-ND✓	.64	5.36	33.60	2,000	128.00/M	NR3015T1R5N
2.2	20%	72	1,500	587-1648-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T2R2M
3.3	20%	80	1,230	587-2619-1-ND✓	.64	5.36	33.60	2,000	128.00/M	NR3015T3R3M
4.7	20%	144	1,040	587-1649-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T4R7M
6.8	20%	160	880	587-2620-1-ND✓	.64	5.36	33.60	2,000	128.00/M	NR3015T6R8M
10	20%	276	710	587-1650-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T100M
15	20%	360	560	587-2616-1-ND✓	.64	5.36	33.60	2,000	128.00/M	NR3015T150M
22	20%	624	470	587-1651-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T220M
47	20%	1,608	300	587-1652-1-ND	.64	5.36	33.60	2,000	128.00/M	NR3015T470M
33	20%	840	370	587-2618-1-ND✓	.64	5.36	33.60	2,000	128.00/M	NR3015T330M
NR4010 Type										
3.3	20%	180	820	587-2651-1-ND✓	.80	6.70	42.00	5,000	150.00/M	NR4010T3R3M
4.7	20%	252	750	587-1658-1-ND	.80	6.70	42.00	5,000	150.00/M	NR4010T4R7M
6.8	20%	300	620	587-2652-1-ND✓	.80	6.70	42.00	5,000	150.00/M	NR4010T6R8M
15	20%	510	510	587-2621-1-ND✓	.80	6.70	42.00	5,000	150.00/M	NR4010T150M
33	20%	1,540	300	587-2622-1-ND✓	.80	6.70	42.00	5,000	150.00/M	NR4010T330M
47	20%	2,172	280	587-1657-1-ND	.65	5.43	34.02	5,000	150.00/M	NR4010T470M
NR4012 Type										
1.0	30%	60	1,500	587-2641-1-ND✓	.76	6.37	39.90	4,500	142.50/M	NR4012T1R0N
2.2	20%	108	1,200	587-1661-1-ND	.76	6.37	39.90	4,500	143.00/M	NR4012T2R2M
3.3	20%	130	980	587-2655-1-ND✓	.76	6.37	39.90	4,500	142.50/M	NR4012T3R3M
4.7	20%	168	960	587-1663-1-ND	.76	6.37	39.90	4,500	143.00/M	NR4012T4R7M
6.8	20%	180	840	587-2656-1-ND✓	.76	6.37	39.90	4,500	142.50/M	NR4012T6R8M
10	20%	288	770	587-1659-1-ND	.76	6.37	39.90	4,500	143.00/M	NR4012T100M
15	20%	400	600	587-2653-1-ND✓	.76	6.37	39.90	4,500	142.50/M	NR4012T150M
22	20%	576	540	587-1660-1-ND	.76	6.37	39.90	4,500	143.00/M	NR4012T220M
33	20%	810	420	587-2654-1-ND✓	.76	6.37	39.90	4,500	142.50/M	NR4012T330M
47	20%	1,200	370	587-1662-1-ND	.62	5.16	32.32	4,500	143.00/M	NR4012T470M
NR4018 Type										
1.0	30%	36	1,830	587-1666-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T1R0N
2.2	20%	72	1,440	587-1669-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T2R2M
4.7	20%	108	1,200	587-1671-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T4R7M
6.8	20%	110	1,060	587-2657-1-ND✓	.69	5.76	36.12	3,500	137.60/M	NR4018T6R8M
10	20%	216	840	587-1664-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T100M
22	20%	432	590	587-1667-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T220M
47	20%	780	420	587-1670-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T470M
100	20%	1,800	270	587-1665-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T101M
150	20%	2,500	220	587-2623-1-ND✓	.69	5.76	36.12	3,500	137.60/M	NR4018T151M
220	20%	4,800	170	587-1668-1-ND	.69	5.76	36.12	3,500	138.00/M	NR4018T221M
NEW! NRG4026 Type NEW!										
1.2	30%	30	2,300	587-2377-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T1R2N
2.3	30%	52	1,970	587-2379-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T2R3N
3.5	20%	65	1,700	587-2380-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T3R5M
4.7	20%	71.5	1,600	587-2382-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T4R7M
6.6	20%	84.5	1,500	587-2383-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T6R6M
10	20%	110.5	1,300	587-2376-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T100M
15	20%	143	1,100	587-2638-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T150M
22	20%	214.5	900	587-2378-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T220M
33	20%	260	800	587-2639-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T330M
47	20%	390	650	587-2381-1-ND	.69	5.76	36.12	2,000	137.60/M	NRG4026T470M
NEW! NRS5012 Type NEW!										
1.0	30%	64	2,300	587-2550-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T1R0NMGF
1.5	30%	84	2,200	587-2551-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T1R5NMGF
2.2	20%	102	2,000	587-2552-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T2R2MMGF
3.3	20%	192	1,450	587-2553-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T3R3MMGF
4.7	20%	216	1,400	587-2554-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T4R7MMGF
6.8	20%	312	1,100	587-2555-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T6R8MMGF
10	20%	504	850	587-2549-1-ND	.72	6.03	37.80	1,000	153.00	NRS5012T100MMGF

‡ For Tape and Reel part number, change 1-ND to 2-ND. ✓ ***NEW!***

(Continued)

Wound Chip Power Inductors — NR, NRH, NRG and NRS Series *(Cont.)*

Inductance (µH)	Tolerance (±)	Max. DC Resistance (mΩ)	Temp. Rise Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
NEW! NRS5014 Type NEW!										
1.2	30%	45	2,800	587-2612-1-ND	.72	6.03	37.80	1,000	153.00	NRS5014T1R2NMGG
2.2	30%	65	2,300	587-2613-1-ND	.72	6.03	37.80	1,000	153.00	NRS5014T2R2NMGG
3.3	30%	80	2,100	587-2614-1-ND	.72	6.03	37.80	1,000	153.00	NRS5014T3R3NMGG
4.7	30%	100	1,800	587-2615-1-ND	.72	6.03	37.80	1,000	153.00	NRS5014T4R7NMGG
NEW! NRS5020 Type NEW!										
1.0	30%	25	3,600	587-2403-1-ND	.72	6.03	37.80	800	129.60	NRS5020T1R0NMGJ
1.5	30%	31	3,200	587-2404-1-ND	.72	6.03	37.80	800	129.60	NRS5020T1R5NMGJ
2.2	30%	42	2,900	587-2405-1-ND	.72	6.03	37.80	800	129.60	NRS5020T2R2NMGJ
3.3	30%	57	2,400	587-2406-1-ND	.72	6.03	37.80	800	129.60	NRS5020T3R3NMGJ
4.7	20%	72	2,000	587-2407-1-ND	.72	6.03	37.80	800	129.60	NRS5020T4R7MMGJ
6.8	20%	108	1,650	587-2408-1-ND	.72	6.03	37.80	800	129.60	NRS5020T6R8MMGJ
10	20%	144	1,450	587-2409-1-ND	.72	6.03	37.80	800	129.60	NRS5020T100MMGJ
15	20%	198	1,200	587-2410-1-ND	.72	6.03	37.80	800	129.60	NRS5020T150MMGJ
22	20%	312	1,000	587-2411-1-ND	.72	6.03	37.80	800	129.60	NRS5020T220MMGJ
NEW! NR5040 Type NEW!										
1.5	30%	26	3,600	587-2367-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T1R5N
2.2	30%	29	3,500	587-2369-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T2R2N
3.3	30%	35	3,300	587-2371-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T3R3N
4.7	30%	38	3,100	587-2373-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T4R7N
6.8	20%	64	2,300	587-2374-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T6R8M
10	20%	73	2,100	587-2365-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T100M
15	20%	104	1,800	587-2366-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T150M
22	20%	164	1,400	587-2368-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T220M
33	20%	234	1,200	587-2370-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T330M
47	20%	403	900	587-2372-1-ND	.78	6.50	40.74	1,500	164.90/M	NR5040T470M
NEW! NRS6010 Type NEW!										
1.5	20%	108	1,900	587-2557-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T1R5MMGF
2.2	20%	132	1,700	587-2558-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T2R2MMGF
3.3	20%	162	1,500	587-2559-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T3R3MMGF
4.7	20%	198	1,400	587-2560-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T4R7MMGF
6.8	20%	264	1,200	587-2561-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T6R8MMGF
10	20%	324	1,100	587-2556-1-ND	.78	6.50	40.74	1,000	164.90	NRS6010T100MMGF
NR6012 Type										
2.5	30%	108	1,730	587-2024-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T2R5NE
4.0	30%	126	1,570	587-2025-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T4R0NE
5.3	20%	150	1,400	587-2026-1-ND	.77	6.46	40.48	—	—	NR6012T5R3ME
6.8	20%	198	1,180	587-2027-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T6R8ME
10	20%	282	1,000	587-2028-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T100ME
15	20%	330	790	587-2624-1-ND✔	.95	7.97	49.98	1,000	202.30	NR6012T150ME
22	20%	636	630	587-2029-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T220ME
33	20%	700	530	587-2625-1-ND✔	.95	7.97	49.98	1,000	202.30	NR6012T330ME
47	20%	1,260	460	587-2030-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T470ME
68	20%	1,350	410	587-2626-1-ND✔	.95	7.97	49.98	1,000	202.30	NR6012T680ME
100	20%	2,616	320	587-2031-1-ND	.95	7.97	49.98	1,000	202.00	NR6012T101ME
NR6020 Type										
0.8	30%	26	3,800	587-2070-1-ND	.84	7.04	44.10	2,500	168.00/M	NR6020T0R8N
1.5	30%	26	3,200	587-2627-1-ND✔	.84	7.04	44.10	2,500	168.00/M	NR6020T1R5N
2.2	30%	44.2	2,700	587-2071-1-ND	.84	7.04	44.10	2,500	168.00/M	NR6020T2R2N
3.3	30%	40	2,600	587-2628-1-ND✔	.84	7.04	44.10	2,500	168.00/M	NR6020T3R3N
4.7	30%	75.4	2,000	587-2072-1-ND	.84	7.04	44.10	2,500	168.00/M	NR6020T4R7N
6.8	30%	85	1,800	587-2629-1-ND✔	.84	7.04	44.10	2,500	168.00/M	NR6020T6R8N
10	20%	162.5	1,400	587-2073-1-ND	.84	7.04	44.10	2,500	168.00/M	NR6020T100M
22	20%	377	950	587-2375-1-ND✔	.84	7.04	44.10	2,500	168.00/M	NR6020T220M
NR6028 Type										
0.9	30%	16.9	4,600	587-2096-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T0R9N
1.5	30%	20.8	4,200	587-2097-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T1R5N
2.2	30%	26	3,700	587-2098-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T2R2N
3.0	30%	29.9	3,400	587-2099-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T3R0N
4.7	20%	40.3	3,000	587-2100-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T4R7M
6.0	20%	52	2,500	587-2101-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T6R0M
10	20%	84.5	1,900	587-2102-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T100M
15	20%	95	1,800	587-2630-1-ND✔	.63	5.29	33.18	2,000	126.40/M	NR6028T150M
22	20%	175.5	1,400	587-2103-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T220M
33	20%	220	1,100	587-2631-1-ND✔	.63	5.29	33.18	2,000	126.40/M	NR6028T330M
47	20%	390	920	587-2104-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T470M
68	20%	420	770	587-2632-1-ND✔	.63	5.29	33.18	2,000	126.40/M	NR6028T680M
100	20%	780	660	587-2105-1-ND	.63	5.29	33.18	2,000	126.00/M	NR6028T101M
NR6045 Type										
1.0	30%	18.2	4,200	587-2074-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T1R0N
1.3	30%	20.8	4,000	587-2075-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T1R3N
1.8	30%	23.4	3,700	587-2076-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T1R8N
2.3	30%	27.3	3,500	587-2077-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T2R3N
3.0	30%	31.2	3,200	587-2078-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T3R0N
4.5	20%	40.3	3,000	587-2079-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T4R5M
6.3	20%	49.4	2,800	587-2080-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T6R3M
10	20%	61.1	2,500	587-2081-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T100M
15	20%	77	1,900	587-2633-1-ND✔	.76	6.37	39.90	1,500	161.50/M	NR6045T150M
22	20%	149.5	1,500	587-2082-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T220M
33	20%	145	1,400	587-2634-1-ND✔	.76	6.37	39.90	1,500	161.50/M	NR6045T330M
47	20%	286	1,100	587-2083-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T470M
68	20%	330	900	587-2635-1-ND✔	.76	6.37	39.90	1,500	161.50/M	NR6045T680M
100	20%	650	700	587-2084-1-ND	.76	6.37	39.90	1,500	162.00/M	NR6045T101M
NR8040 Type										
1.4	30%	9.1	7,000	587-1996-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T1R4N
2.0	30%	11.7	6,300	587-1997-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T2R0N
3.6	30%	19.5	4,900	587-1998-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T3R6N
4.7	30%	23.4	4,100	587-1999-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T4R7N
6.8	30%	32.5	3,700	587-2000-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T6R8N
10	20%	44.2	3,100	587-2001-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T100M
15	20%	50	2,400	587-2643-1-ND✔	.84	7.16	48.60	1,000	216.00	NR8040T150M
22	20%	85.8	2,200	587-2002-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T220M
33	20%	100	1,700	587-2636-1-ND✔	.84	7.16	48.60	1,000	216.00	NR8040T330M
47	20%	195	1,400	587-2003-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T470M
68	20%	230	1,100	587-2637-1-ND✔	.84	7.16	48.60	1,000	216.00	NR8040T680M
100	20%	377	1,000	587-2004-1-ND	.84	7.16	48.60	1,000	216.00	NR8040T101M

‡ For Tape and Reel part number, change 1-ND to 2-ND. ✔ ***NEW!***

NR10050 Series

Features: • High current • Simple and original magnetic shield structure

Applications: • Power supply circuits • DC/DC converters in a variety of applications such as PDP TV, LCD TV, HCC, PC

Dimensions – Inch (mm)				
L	W	H - Max.	a	b
0.394 ±0.012 (10.0 ±0.3)	0.386 ±0.02 (9.8 ±0.5)	0.197 (5.0)	0.16 (4.0)	0.07 (1.75)

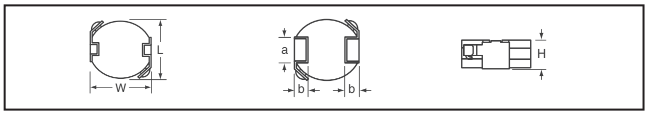

Inductance (µH)	Tolerance (±)	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡ Pricing 500	Taiyo Yuden Part No.
					1	10	100		
2.1	30%	0.008	8,300	587-1693-1-ND	1.24	10.34	75.90	198.00	NR10050T2R1N
2.9	30%	0.0093	7,300	587-1694-1-ND	1.01	8.42	61.78	161.00	NR10050T2R9N
4.9	30%	0.015	6,000	587-1696-1-ND	1.24	10.34	75.90	198.00	NR10050T4R9N
6.5	30%	0.018	5,200	587-1697-1-ND	1.24	10.34	75.90	198.00	NR10050T6R5N
10	20%	0.025	4,100	587-1698-1-ND	1.24	10.34	75.90	198.00	NR10050T100M
22	20%	0.045	2,500	587-1699-1-ND	1.24	10.34	75.90	198.00	NR10050T220M
47	20%	0.092	1,800	587-1700-1-ND	1.24	10.34	75.90	198.00	NR10050T470M
100	20%	0.209	1,200	587-1701-1-ND	1.24	10.34	75.90	198.00	NR10050T101M
220	20%	0.45	800	587-1702-1-ND	1.24	10.34	75.90	198.00	NR10050T221M

‡ For Tape and Reel part number, change 1-ND to 2-ND.

CKP Series Chip Inductors

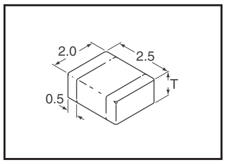

Features:
- Low profile below 1.2mm
- Low DC power dissipation due to low RDC with high aspect ratio internal conductor

Applications:
- DC/DC converter for mobile equipment (Cellular phones, DSC, DVC)

Size	Inductance (µH)	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Taiyo Yuden Part No.
					1	10	100	Qty.	Pricing	
1008	1.0	±20%	1.0	587-2091-1-ND	.72	.61	.38	3,000	144.00/M	CKP25201R0M-T
	2.2	±20%	1.0	587-2092-1-ND	.72	.61	.38	3,000	144.00/M	CKP25202R2M-T
	4.7	±20%	1.0	587-2093-1-ND	.72	.61	.38	3,000	144.00/M	CKP25204R7M-T
	1.0	±20%	1.2	587-2181-1-ND	.72	.61	.38	2,000	144.00/M	CKP2520V1R0M-T
	2.2	±20%	1.2	587-2182-1-ND	.72	.61	.38	2,000	144.00/M	CKP2520V2R2M-T
	3.3	±20%	1.2	587-2183-1-ND	.72	.61	.38	2,000	144.00/M	CKP2520V3R3M-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Choke Coil

For DC and Signal Lines

Specifications:

• Operating Temperature Range: -40°C ~ 105°C • Insulation Resistance: 100MΩ minimum • Rated Voltage: 20VDC

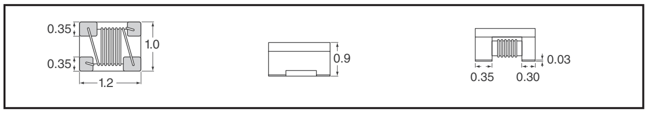

Typical Impedance @ 100MHz (Ω)	Rated Current (mA)	Max. Resistance (Ω)	Cutoff Frequency (GHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel‡ Pricing 3,000	Taiyo Yuden Part No.
					1	10	100		
60	300	0.4	10.0	587-2309-1-ND ***NEW!***	.81	.69	.47	195.00/M	CM01S600T
90	250	0.5	8.0	587-2090-1-ND	.81	.69	.47	195.00/M	CM01H900T
90	400	0.3	3.0	587-2413-1-ND ***NEW!***	.81	.69	.47	195.00/M	CM01U900T
160	260	0.6	3.0	587-2414-1-ND ***NEW!***	.81	.69	.47	195.00/M	CM01U161T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

TOKO

Low Dropout Voltage Regulators

Series TK112xxCM/TK113xxCM

The **TK112xxCM** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current (65µA). The PNP power transistor is built-in. The I/O voltage difference is 0.17V (typical) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The over current sensor circuit and the reverse-bias protection circuit are built-in. It is a very rugged design because the ESD protection is high. Therefore, the TK112xxCM can be used with confidence.

The **TK113xxCM** series of low dropout (LDO) voltage regulators are designed for use in battery powered equipment, portable communication devices or RF modules requiring a thermal enhanced SOT23L-6 package. The maximum continuous current power rating is 380mA.

Specifications:

TK112xxCM: • Peak output current is 480mA (10% down point) • Built-in on/off control (0.1µA maximum standby current) High On • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6mV • Maximum Output Current: 480mA • Quiescent Current: 65µA

TK113xxCM: • Active Low (Reference: Vin) On/Off Control • Output Current: 300mA (peak 480mA) • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6mV • Maximum Output Current: 480mA • Quiescent Current: 1.8mA

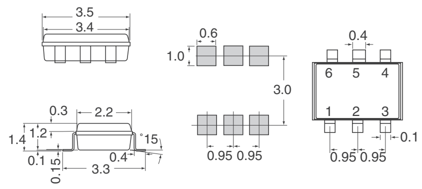

Series TK112xxCM	Series TK113xxCM
1. On/Off	1. Vcont
2. Gnd	2. Gnd
3. Np (Vref)	3. Np (Vref)
4. Vout	4. Vout
5. Gnd	5. Gnd
6. Vin	6. Vin

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,300	Toko Part No.
2.8	TKS11228CT-ND	1.79	1.51	1.32	TKS11228TR-ND	675.00/M	TK11228CMCL-G
3.0	TKS11230CT-ND	1.71	1.44	1.26	TKS11230TR-ND	675.00/M	TK11230CMCL-G
3.0	TKS11330CT-ND	2.47	2.08	1.82	TKS11330TR-ND	975.00/M	TK11330CMCL-G
5.0	TKS11350CT-ND	2.47	2.08	1.82	TKS11350TR-ND	910.00/M	TK11350CMCL-G

Series TK111xxC/TK717xxS

The **TK111xxC** is an integrated circuit of the silicon monolithic bipolar structure, and the regulator of low saturation output type with very little quiescent current (63µA). The PNP power transistor is built-in. The I/O voltage difference when the current of 200mA (typical) is supplied to the system is 0.2V. The voltage source can be effectively used therefore, it is the best for the battery used type set. The on/off function is built into the IC. The current in standing-by mode becomes slight (pA level). 1.5V ~ 10.0V is arranged to the output voltage in 0.1V step. The output voltage is trimmed in high accuracy.

The **TK717xxS** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current. The PNP power transistor is built-in. The I/O voltage difference is 163mV (typical) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The current during standby mode becomes very small (pA level). In addition, the output short-circuit function works at off times. It is a unique characteristic by which the residual charge of the output side capacitor is rapidly discharged.

Specifications:

TK111xxC: • Peak output current is 320mA (0.3V down point) • Built-in on/off control (0.1µA maximum standby current) High on • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 320mA • Quiescent Current: 1.0mA • Lead free

TK717xxS: • Built-in PNP power transistor. Very small Dropout Voltage (Vdrop=163mV at Iout=200mA) • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 370mA • Quiescent Current: 72µA

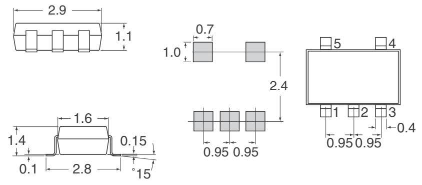

Series TK111xxC	Series TK717xxS
1. On/Off	1. Vin
2. Gnd	2. Gnd
3. Np (Vref)	3. On/Off
4. Vout	4. Np (Vref)
5. Vin	5. Vout

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Toko Part No.
2.5	TKS11125CT-ND	1.37	1.16	1.01	TKS11125TR-ND	504.00/M	TK11125CSCL-G
3.0	TKS11130CT-ND	1.37	1.16	1.01	TKS11130TR-ND	504.00/M	TK11130CSCL-G
3.3	TKS11133CT-ND	1.37	1.16	1.01	—	—	TK11133CSCL-G
5.0	TKS11150CT-ND	1.37	1.16	1.01	—	—	TK11150CSCL-G
2.8	TKS71728CT-ND	1.44	1.22	1.07	TKS71728TR-ND	532.00/M	TK71728SCL-G
3.0	TKS71730CT-ND	1.44	1.22	1.07	—	—	TK71730SCL-G

J.W.Miller
MAGNETICS
A Bourns Company

Fixed Inductors

RL622 Series:

Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL822 Series:

Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL824 Series:

Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL622 Series

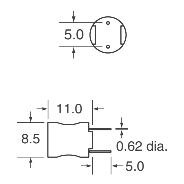

RL822 Series

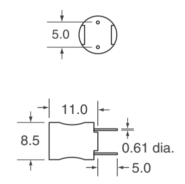

RL824 Series

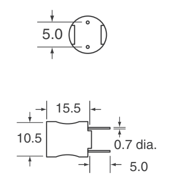

L (µH) ±5% @1kHz	Q (Min.) @50kHz	Test Freq. (kHz)	SRF (MHz) Min.	DCR (Ω) Max.	I, DC (mA)	Digi-Key Part No.	Price Each 1	10	25	50	100	J.W.Miller Part No.
RL622 Series												
1.0	20	7.96	150	0.013	10	M9975-ND	1.13	.90	.68	.57	.45	RL622-1R0K-RC
1.5	20	7.96	130	0.016	8.5	M9976-ND	1.13	.90	.68	.57	.45	RL622-1R5K-RC
2.2	20	7.96	100	0.021	6.5	M9977-ND	1.13	.90	.68	.57	.45	RL622-2R2K-RC
3.3	20	7.96	79	0.025	5.5	M9978-ND	1.13	.90	.68	.57	.45	RL622-3R3K-RC
4.7	20	7.96	51	0.030	4.3	M9979-ND	1.13	.90	.68	.57	.45	RL622-4R7K-RC
6.8	20	7.96	29	0.035	3.7	M9980-ND	1.13	.90	.68	.57	.45	RL622-6R8K-RC
10	50	2.52	14	0.045	3.0	M9981-ND	1.13	.90	.68	.57	.45	RL622-100K-RC
12	50	2.52	13	0.050	2.7	M9982-ND	1.13	.90	.68	.57	.45	RL622-120K-RC
15	40	2.52	12	0.056	2.3	M9983-ND	1.13	.90	.68	.57	.45	RL622-150K-RC
18	40	2.52	11	0.061	2.2	M9984-ND	1.13	.90	.68	.57	.45	RL622-180K-RC
22	40	2.52	9.2	0.070	2.0	M9985-ND	1.13	.90	.68	.57	.45	RL622-220K-RC
27	30	2.52	8.5	0.080	1.7	M9986-ND	1.13	.90	.68	.57	.45	RL622-270K-RC
33	30	2.52	7.8	0.090	1.6	M9987-ND	1.13	.90	.68	.57	.45	RL622-330K-RC
39	30	2.52	6.9	0.10	1.5	M9988-ND	1.13	.90	.68	.57	.45	RL622-390K-RC
47	30	2.52	6.5	0.16	1.4	M9989-ND	1.13	.90	.68	.57	.45	RL622-470K-RC
56	30	2.52	5.4	0.18	1.3	M9990-ND	1.13	.90	.68	.57	.45	RL622-560K-RC
68	30	2.52	4.9	0.21	1.2	M9991-ND	1.13	.90	.68	.57	.45	RL622-680K-RC
82	30	2.52	4.1	0.23	1.1	M9992-ND	1.13	.90	.68	.57	.45	RL622-820K-RC
100	20	0.796	3.7	0.28	0.91	M9993-ND	1.13	.90	.68	.57	.45	RL622-101K-RC
120	20	0.796	3.4	0.32	0.84	M9994-ND	1.13	.90	.68	.57	.45	RL622-121K-RC
150	20	0.796	3.2	0.37	0.75	M9995-ND	1.13	.90	.68	.57	.45	RL622-151K-RC
180	20	0.796	2.8	0.58	0.69	M9996-ND	1.13	.90	.68	.57	.45	RL622-181K-RC
220	20	0.796	2.7	0.65	0.64	M9997-ND	1.13	.90	.68	.57	.45	RL622-221K-RC
270	20	0.796	2.4	0.75	0.57	M9998-ND	1.13	.90	.68	.57	.45	RL622-271K-RC
330	20	0.796	2.3	0.85	0.54	M9999-ND	1.13	.90	.68	.57	.45	RL622-331K-RC
390	20	0.796	2.1	1.0	0.48	M10000-ND	1.13	.90	.68	.57	.45	RL622-391K-RC
470	20	0.796	1.9	1.1	0.46	M10001-ND	1.13	.90	.68	.57	.45	RL622-471K-RC
560	20	0.796	1.8	1.4	0.41	M10002-ND	1.13	.90	.68	.57	.45	RL622-561K-RC
680	20	0.796	1.6	1.6	0.38	M10003-ND	1.13	.90	.68	.57	.45	RL622-681K-RC
1000	50	0.252	1.3	2.9	0.29	M10005-ND	1.13	.90	.68	.57	.45	RL622-102K-RC
1500	20	0.252	1.0	6.1	0.08	M10007-ND	1.13	.90	.68	.57	.45	RL622-152K-RC
1800	20	0.252	1.0	6.4	0.08	M10008-ND	1.13	.90	.68	.57	.45	RL622-182K-RC
2200	20	0.252	0.9	6.8	0.08	M10009-ND	1.13	.90	.68	.57	.45	RL622-222K-RC
4700	20	0.252	0.5	16.0	0.05	M10013-ND	1.13	.90	.68	.57	.45	RL622-472K-RC
5600	20	0.252	0.4	18.0	0.05	M10014-ND	1.13	.90	.68	.57	.45	RL622-562K-RC
6800	20	0.252	0.4	19.0	0.05	M10015-ND	1.13	.90	.68	.57	.45	RL622-682K-RC
8200	20	0.252	0.3	21.0	0.05	M10016-ND	1.13	.90	.68	.57	.45	RL622-822K-RC
10000	40	0.079	0.3	25.0	0.05	M10017-ND	1.13	.90	.68	.57	.45	RL622-103K-RC
15000	40	0.079	0.2	37.0	0.04	M10019-ND	1.13	.90	.68	.57	.45	RL622-153K-RC
39000	30	0.079	0.1	80.0	0.03	M10024-ND	1.13	.90	.68	.57	.45	RL622-393K-RC
47000	20	0.079	0.1	99.0	0.03	M10025-ND	1.13	.90	.68	.57	.45	RL622-473K-RC
56000	20	0.079	01	135.0	0.02	M10026-ND	1.13	.90	.68	.57	.45	RL622-563K-RC
68000	20	0.079	0.1	150.0	0.02	M10027-ND	1.13	.90	.68	.57	.45	RL622-683K-RC
82000	20	0.079	0.1	212.0	0.02	M10028-ND	1.13	.90	.68	.57	.45	RL622-823K-RC
100000	20	0.025	0.1	235.0	0.02	M10029-ND	1.13	.90	.68	.57	.45	RL622-104K-RC
RL822 Series												
15	—	—	12	0.058	1.75	M9961-ND	1.18	.94	.71	.59	.47	RL822-150K-RC
RL824 Series												
680	—	—	1.1	0.79	0.44	M9953-ND	1.30	.98	.74	.65	.57	RL824-681K-RC

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

J.W.Miller
MAGNETICS
A Bourns Company

Surface Mount Chip Inductors

PM1812 and PM1210 Series

PM1812 Series

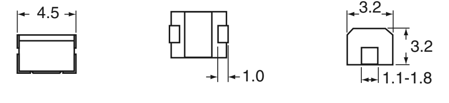

PM1210 Series

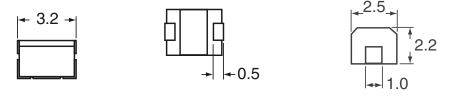

L (μH)	Q Min.	Test Frequency (MHz)	SRF (MHz) Maximum	DCR (Ω) Maximum	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	J.W.Miller Part No.
							PM1812 Series 10%						
0.10	28.00	25.20	300.00	0.18	800.00	M8526CT-ND	.45	.41	.34	M8526TR-ND	500	66.75	PM1812-R10K-RC
							PM1812 Series 5%						
1.00	50.00	7.96	100.00	0.50	450.00	M8527CT-ND	.45	.41	.34	M8527TR-ND	500	66.75	PM1812-1R0J-RC
3.30	50.00	7.96	45.00	0.80	355.00	M8530CT-ND	.45	.41	.34	M8530TR-ND	500	66.75	PM1812-3R3J-RC
10.00	50.00	2.52	20.00	1.60	250.00	M8531CT-ND	.45	.41	.34	M8531TR-ND	500	66.75	PM1812-100J-RC
12.00	50.00	2.52	18.00	2.00	225.00	M8532CT-ND	.45	.41	.34	—	—	—	PM1812-120J-RC
1000.00	30.00	0.796	2.00	2.00	40.00	M8539CT-ND	.45	.41	.34	M8539TR-ND	500	66.75	PM1812-102J-RC
							PM1210 Series 5%						
1.00	28.00	7.96	120.00	0.70	400.00	M8540CT-ND	.45	.41	.34	M8540TR-ND	2,000	133.50/M	PM1210-1R0J-RC
1.50	28.00	7.96	85.00	0.85	370.00	M8541CT-ND	.45	.41	.34	M8541TR-ND	2,000	133.50/M	PM1210-1R5J-RC
2.20	30.00	7.96	75.00	1.00	320.00	M8542CT-ND	.45	.41	.34	M8542TR-ND	2,000	133.50/M	PM1210-2R2J-RC
4.70	30.00	7.96	50.00	1.70	220.00	M8543CT-ND	.45	.41	.34	M8543TR-ND	2,000	133.50/M	PM1210-4R7J-RC
5.60	30.00	7.96	47.00	1.80	200.00	M8544CT-ND	.45	.41	.34	M8544TR-ND	2,000	133.50/M	PM1210-5R6J-RC
10.00	30.00	2.52	36.00	2.50	150.00	M8545CT-ND	.45	.41	.34	M8545TR-ND	2,000	133.50/M	PM1210-100J-RC
12.00	30.00	2.52	33.00	2.80	140.00	M8546CT-ND	.45	.41	.34	M8546TR-ND	2,000	133.50/M	PM1210-120J-RC
15.00	30.00	2.52	30.00	3.20	130.00	M8547CT-ND	.45	.41	.34	M8547TR-ND	2,000	133.50/M	PM1210-150J-RC
33.00	30.00	2.52	17.00	5.60	70.00	M8548CT-ND	.45	.41	.34	M8548TR-ND	2,000	133.50/M	PM1210-330J-RC
47.00	30.00	2.52	15.00	7.00	60.00	M8549CT-ND	.45	.41	.34	M8549TR-ND	2,000	133.50/M	PM1210-470J-RC
68.00	30.00	2.52	12.00	9.00	50.00	M8550CT-ND	.45	.41	.34	—	—	—	PM1210-680J-RC
100.00	20.00	0.796	10.00	10.00	40.00	M8552CT-ND	.45	.41	.34	M8552TR-ND	2,000	133.50/M	PM1210-101J-RC
120.00	20.00	0.796	10.00	11.00	70.00	M8553CT-ND	.45	.41	.34	M8553TR-ND	2,000	133.50/M	PM1210-121J-RC
150.00	20.00	0.796	8.00	15.00	65.00	M8554CT-ND	.45	.41	.34	M8554TR-ND	2,000	133.50/M	PM1210-151J-RC
180.00	20.00	0.796	7.00	17.00	60.00	M8555CT-ND	.45	.41	.34	M8555TR-ND	2,000	133.50/M	PM1210-181J-RC

Surface Mount High Power Inductors

PM7232S, PM12645S, PM12651S and PM13560S Series

Features: • Ideal for very high current DC/DC converter output inductors • Magnetically shielded for low radiation • High saturation current • Low DC resistance • Low Profile • Test Frequency: 100kHz • Operating Temperature: -40°C ~ 150°C

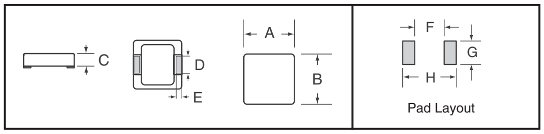

L (μH) ±20%	DCR Ω Max.	Irated (A)	Dimensions (mm) A	B	C	D	E	F	G	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	J.W.Miller Part No.
											PM7232S Series							
0.10	0.0011	22	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8494CT-ND	2.41	2.20	1.64	M8494TR-ND	1,500	1020.00/M	PM7232S-R10M-RC
0.47	0.0030	15	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8496CT-ND	2.41	2.20	1.64	M8496TR-ND	1,000	1020.00	PM7232S-R47M-RC
0.72	0.0080	12.5	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8497CT-ND	2.41	2.20	1.64	M8497TR-ND	1,000	1020.00	PM7232S-R72M-RC
1.5	0.0095	9	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8498CT-ND	2.41	2.20	1.64	M8498TR-ND	1,000	1020.00	PM7232S-1R5M-RC
											PM12645S Series							
1.2	0.0018	21	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8107CT-ND	2.54	2.31	1.72	M8107TR-ND	500	536.25	PM12645S-1R2M-RC
2.7	0.0044	15	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8109CT-ND	2.54	2.31	1.72	M8109TR-ND	500	536.25	PM12645S-2R7M-RC
											PM12651S Series							
4.7	0.0072	12	12.6	12.6	5.1	5.8	2.4	6.0	6.5	13.0	M8500CT-ND	2.54	2.31	1.72	M8500TR-ND	500	536.25	PM12645S-4R7M-RC
											PM13560S Series							
6	0.0107	9.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8501CT-ND	2.59	2.36	1.76	M8501TR-ND	500	547.50	PM13560S-6R0M-RC
10	0.0149	7.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8502CT-ND	2.59	2.36	1.76	M8502TR-ND	500	547.50	PM13560S-100M-RC

Surface Mount Chip Inductors

Features: • Ceramic Core, Wire Wound for Superior Reliability • High Self-Resonant Frequency • Flat Top Surface for Automated Pick and Place

PM0603 Series

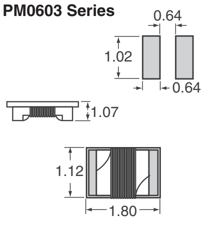

PM0805 Series

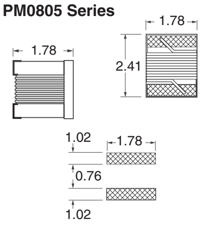

PM1008 Series

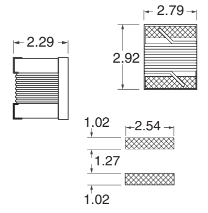

L (nH)	Tol. (%)	Q Min.	L Test Freq. (MHz)	R,dc Max. (Ω)	I,dc Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R‡ Pricing 3,000	J.W.Miller Part No.
						PM0603 Series					
3.9	±0.3nH	22	250	0.08	700	M8489CT-ND	.39	.36	.30	117.00/M	PM0603-3N9-RC
10	±5	30	250	0.15	700	M8484CT-ND	.39	.36	.30	117.00/M	PM0603-10NJ-RC
18	±5	35	250	0.17	700	M8485CT-ND	.39	.36	.30	117.00/M	PM0603-18NJ-RC
27	±5	40	250	0.23	700	M8486CT-ND	.39	.36	.30	117.00/M	PM0603-27NJ-RC
33	±5	43	250	0.23	600	M8487CT-ND	.39	.36	.30	117.00/M	PM0603-33NJ-RC
39	±5	43	250	0.25	600	M8488CT-ND	.39	.36	.30	117.00/M	PM0603-39NJ-RC
47	±5	40	200	0.28	600	M8490CT-ND	.39	.36	.30	117.00/M	PM0603-47NJ-RC
82	±5	35	150	0.54	400	M8491CT-ND	.39	.36	.30	117.00/M	PM0603-82NJ-RC
120	±5	35	150	0.65	300	M8493CT-ND	.39	.36	.30	117.00/M	PM0603-R12J-RC

‡ For Tape and Reel part number, change CT-ND to TR-ND

L (nH)	Tol. (%)	Q Min.	L Test Freq. (MHz)	R,dc Max. (Ω)	I,dc Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R‡ Pricing 2,000	J.W.Miller Part No.
						PM0805 Series					
6.8	20	50	250	0.11	600	M8452CT-ND	.40	.36	.30	120.00/M	PM0805-6N8M-RC
8.2	20	50	250	0.12	600	M8453CT-ND	.40	.36	.30	120.00/M	PM0805-8N2M-RC
12	20	50	250	0.15	600	M8454CT-ND	.40	.36	.30	120.00/M	PM0805-12NM-RC
22	20	55	250	0.22	500	M8455CT-ND	.40	.36	.30	120.00/M	PM0805-22NM-RC
27	20	55	250	0.25	500	M8456CT-ND	.40	.36	.30	120.00/M	PM0805-27NM-RC
33	20	60	250	0.27	500	M8457CT-ND	.40	.36	.30	120.00/M	PM0805-33NM-RC
47	20	60	200	0.31	500	M8459CT-ND	.40	.36	.30	120.00/M	PM0805-47NM-RC
56	10	60	200	0.34	500	M8460CT-ND	.40	.36	.30	120.00/M	PM0805-56NK-RC
68	10	60	200	0.38	400	M8461CT-ND	.40	.36	.30	120.00/M	PM0805-68NK-RC
82	10	65	150	0.42	400	M8462CT-ND	.40	.36	.30	120.00/M	PM0805-82NK-RC
100	10	65	150	0.46	400	M8463CT-ND	.40	.36	.30	120.00/M	PM0805-R10K-RC
120	10	50	150	0.51	400	M8464CT-ND	.40	.36	.30	120.00/M	PM0805-R12K-RC
220	10	50	100	1.00	400	M8466CT-ND	.40	.36	.30	120.00/M	PM0805-R22K-RC
						PM1008 Series					
68	10	65	50	0.20	1000	M8470CT-ND	.40	.36	.30	120.00/M	PM1008-68NK-RC
330	10	45	25	1.05	450	M8472CT-ND	.40	.36	.30	120.00/M	PM1008-R33K-RC
680	10	45	25	1.47	400	M8474CT-ND	.40	.36	.30	—	PM1008-R68K-RC
1.0μH	10	35	25	1.75	370	M8476CT-ND	.40	.36	.30	120.00/M	PM1008-1R0K-RC
1.2μH	10	35	7.9	2.00	340	M8477CT-ND	.40	.36	.30	120.00/M	PM1008-1R2K-RC
2.2μH	10	28	7.9	2.80	290	M8480CT-ND	.40	.36	.30	120.00/M	PM1008-2R2K-RC
2.7μH	10	22	7.9	3.20	290	M8481CT-ND	.40	.36	.30	120.00/M	PM1008-2R7K-RC
3.3μH	10	22	7.9	3.40	290	M8482CT-ND	.40	.36	.30	120.00/M	PM1008-3R3K-RC

‡ For Tape and Reel part number, change CT-ND to TR-ND

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Power Inductors - PM3308 Series

Digi-Reel® RoHS COMPLIANT

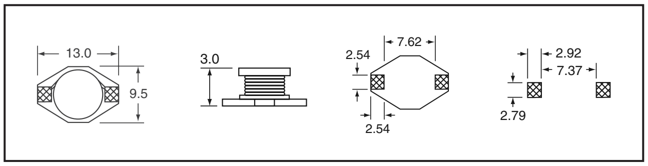

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	J.W.Miller Part No.
10	0.11	2.4	2.0	M8576CT-ND	1.70	1.53	1.28	510.00	PM3308-100M-RC
22	0.23	1.6	1.3	M8577CT-ND	1.70	1.53	1.28	510.00	PM3308-220M-RC
33	0.30	1.4	1.1	M8578CT-ND	1.70	1.53	1.28	510.00	PM3308-330M-RC
47	0.39	1.0	0.8	M8579CT-ND	1.70	1.53	1.28	510.00	PM3308-470M-RC
68	0.7	0.9	0.7	M8580CT-ND	1.70	1.53	1.28	510.00	PM3308-680M-RC
330	2.7	0.4	0.3	M8581CT-ND	1.70	1.53	1.28	510.00	PM3308-331M-RC
470	4.0	0.3	0.2	M8582CT-ND	1.70	1.53	1.28	510.00	PM3308-471M-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors - PM3316 Series

Digi-Reel® RoHS COMPLIANT

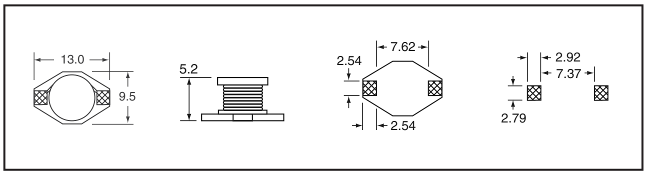

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	J.W.Miller Part No.
1.0	0.009	9.0	6.8	M8557CT-ND	1.65	1.49	1.24	247.50	PM3316-1R0M-RC
1.5	0.010	8.0	6.4	M8558CT-ND	1.65	1.49	1.24	247.50	PM3316-1R5M-RC
2.2	0.012	7.0	6.1	M8559CT-ND	1.65	1.49	1.24	247.50	PM3316-2R2M-RC
33	0.10	2.0	2.1	M8566CT-ND	1.65	1.49	1.24	247.50	PM3316-330M-RC
68	0.20	1.4	1.5	M8568CT-ND	1.65	1.49	1.24	247.50	PM3316-680M-RC
100	0.28	1.2	1.3	M8569CT-ND	1.65	1.49	1.24	247.50	PM3316-101M-RC
150	0.40	1.0	1.0	M8570CT-ND	1.65	1.49	1.24	247.50	PM3316-151M-RC
330	1.02	0.6	0.6	M8572CT-ND	1.65	1.49	1.24	247.50	PM3316-331M-RC
470	1.27	0.5	0.5	M8573CT-ND	1.65	1.49	1.24	247.50	PM3316-471M-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors - PM3340 Series

Digi-Reel® RoHS COMPLIANT

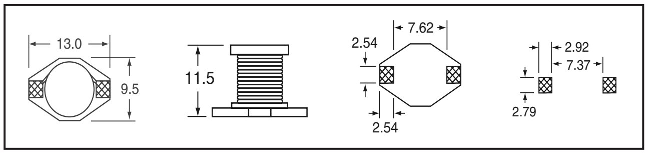

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 225	J.W.Miller Part No.
10	0.033	8.0	3.5	M8583CT-ND	1.75	1.58	1.32	118.13	PM3340-100M-RC
15	0.042	7.0	3.0	M8584CT-ND	1.75	1.58	1.32	118.13	PM3340-150M-RC
22	0.054	5.5	2.5	M8585CT-ND	1.75	1.58	1.32	118.13	PM3340-220M-RC
33	0.08	4.0	2.0	M8586CT-ND	1.75	1.58	1.32	118.13	PM3340-330M-RC
47	0.1	3.8	1.6	M8587CT-ND	1.75	1.58	1.32	118.13	PM3340-470M-RC
68	0.17	3.0	1.2	M8588CT-ND	1.75	1.58	1.32	118.13	PM3340-680M-RC
100	0.22	2.5	1.2	M8589CT-ND	1.75	1.58	1.32	118.13	PM3340-101M-RC
150	0.34	2.0	0.9	M8590CT-ND	1.75	1.58	1.32	118.13	PM3340-151M-RC
220	0.44	1.6	0.7	M8591CT-ND	1.75	1.58	1.32	118.13	PM3340-221M-RC
330	0.7	1.2	0.6	M8592CT-ND	1.75	1.58	1.32	118.13	PM3340-331M-RC
1000	2.0	0.8	0.1	M8593CT-ND	1.75	1.58	1.32	118.13	PM3340-102M-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors - PM5022 Series

Digi-Reel® RoHS COMPLIANT

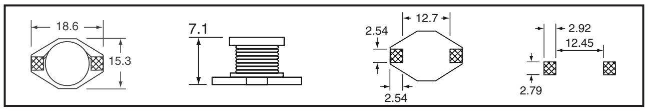

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 250	J.W.Miller Part No.
5.6	0.022	12	5.3	M8594CT-ND	1.35	1.22	1.02	101.25	PM5022-5R6M-RC
10	0.032	10	4.3	M8597CT-ND	1.35	1.22	1.02	101.25	PM5022-100M-RC
68	0.13	3.5	2.3	M8602CT-ND	1.35	1.22	1.02	101.25	PM5022-680M-RC
100	0.19	3.0	1.8	M8603CT-ND	1.35	1.22	1.02	101.25	PM5022-101M-RC
220	0.38	2.4	1.2	M8605CT-ND	1.35	1.22	1.02	101.25	PM5022-221M-RC
470	0.85	1.4	0.82	M8607CT-ND	1.35	1.22	1.02	101.25	PM5022-471M-RC
680	1.2	1.2	0.72	M8608CT-ND	1.35	1.22	1.02	101.25	PM5022-681M-RC
1000	1.8	1.0	0.56	M8609CT-ND	1.35	1.22	1.02	101.25	PM5022-102M-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors

Digi-Reel® RoHS COMPLIANT

PM43	PM54	PM105	PM105SB
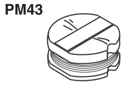	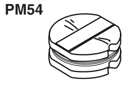	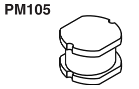	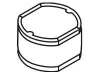

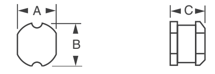

Terminal Dimensions

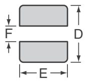

Series	Dimensions (mm) A	B	C	D Typ.	E Typ.	F Typ.
PM43	4.0 ±0.3	4.5 ±0.3	3.2 ±0.3	4.5	4.0	1.2
PM54	5.2 ±0.3	5.8 ±0.3	4.5 ±0.3	5.8	5.2	1.3
PM105	9.0 ±0.4	10.0 ±0.4	5.4 ±0.4	10.0	9.5	2.5
PM105/SB	9.2 ±0.4	10.0 ±0.4	5.0 ±0.5	10.0	9.5	2.5

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,500	J.W.Miller Part No.
					PM43 Series					
10	20	2.5MHz	0.182	1.04	M8503CT-ND	1.45	1.31	1.09	435.00/M	PM43-100M-RC
22	20	2.5MHz	0.378	0.68	M8506CT-ND	1.45	1.31	1.09	435.00/M	PM43-220M-RC
33	10	2.5MHz	0.540	0.56	M8507CT-ND	1.45	1.31	1.09	435.00/M	PM43-330K-RC
68	10	2.5MHz	1.117	0.37	M8510CT-ND	1.45	1.31	1.09	435.00/M	PM43-680K-RC
					PM54 Series					
10	20	2.5MHz	0.10	1.44	M8511CT-ND	1.45	1.31	1.09	435.00/M	PM54-100M-RC
18	20	2.5MHz	0.15	1.23	M8516CT-ND	1.45	1.31	1.09	435.00/M	PM54-180M-RC
22	20	2.5MHz	0.18	1.11	M8518CT-ND	1.45	1.31	1.09	435.00/M	PM54-220M-RC
33	15	2.5MHz	0.23	0.88	M8521CT-ND	1.45	1.31	1.09	435.00/M	PM54-330L-RC
39	15	2.5MHz	0.32	0.80	M8522CT-ND	1.45	1.31	1.09	435.00/M	PM54-390L-RC
47	15	2.5MHz	0.37	0.72	M8523CT-ND	1.45	1.31	1.09	435.00/M	PM54-470L-RC
68	10	2.5MHz	0.46	0.61	M8524CT-ND	1.45	1.31	1.09	435.00/M	PM54-680K-RC
82	10	2.5MHz	0.60	0.58	M8525CT-ND	1.45	1.31	1.09	435.00/M	PM54-820K-RC
100	10	1kHz	0.70	0.52	M8512CT-ND	1.45	1.31	1.09	435.00/M	PM54-101K-RC
150	10	1kHz	1.10	0.40	M8515CT-ND	1.45	1.31	1.09	435.00/M	PM54-151K-RC
220	10	1kHz	1.57	0.35	M8519CT-ND	1.45	1.31	1.09	435.00/M	PM54-221K-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 500	J.W.Miller Part No.
					PM105 Series					
15	20	2.5MHz	0.08	2.27	M8414CT-ND	1.90	1.71	1.43	285.00	PM105-150M-RC
39	20	2.5MHz	0.14	1.37	M8417CT-ND	1.90	1.71	1.43	285.00	PM105-390M-RC
47	10	2.5MHz	0.17	1.28	M8418CT-ND	1.90	1.71	1.43	285.00	PM105-470K-RC
100	10	1kHz	0.35	0.97	M8422CT-ND	1.90	1.71	1.43	285.00	PM105-101K-RC
120	10	1kHz	0.40	0.89	M8423CT-ND	1.90	1.71	1.43	285.00	PM105-121K-RC
330	10	1kHz	1.15	0.52	M8428CT-ND	1.90	1.71	1.43	285.00	PM105-331K-RC
470	10	1kHz	1.48	0.42	M8429CT-ND	1.90	1.71	1.43	285.00	PM105-471K-RC
					PM105SB (Shielded) Series					
10	20	2.5MHz	0.06	2.06	M8433CT-ND	1.47	1.33	1.11	220.50	PM105SB-100M-RC
15	20	2.5MHz	0.07	1.72	M8435CT-ND	1.47	1.33	1.11	220.50	PM105SB-150M-RC
27	20	2.5MHz	0.10	1.32	M8438CT-ND	1.47	1.33	1.11	220.50	PM105SB-270M-RC
33	15	2.5MHz	0.11	1.16	M8439CT-ND	1.47	1.33	1.11	220.50	PM105SB-330L-RC
47	15	2.5MHz	0.14	1.00	M8441CT-ND	1.47	1.33	1.11	198.00	PM105SB-470L-RC
82	15	2.5MHz	0.28	0.79	M8443CT-ND	1.47	1.33	1.11	220.50	PM105SB-820L-RC
100	10	1kHz	0.34	0.72	M8444CT-ND	1.47	1.33	1.11	220.50	PM105SB-101K-RC
330	10	1kHz	1.20	0.37	M8450CT-ND	1.47	1.33	1.11	220.50	PM105SB-331K-RC

† For Tape and Reel part number, change CT-ND to TR-ND.

J.W.Miller MAGNETICS A Bourns Company

Surface Mount High Current Toroid Inductors

PM2110 and PM2120 Series

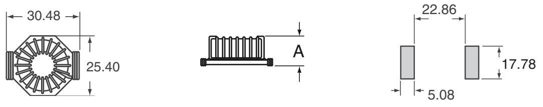

L (µH) @ 1kHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A (mm) Max.	Digi-Key Part No.	Price Each 1	10	25	J.W.Miller Part No.
PM2110 Series 20%									
1.00	22.70	0.80	0.00	14.48	M8754-ND	2.73	2.05	1.82	PM2110-1R0M-RC
5.60	13.70	3.90	0.01	14.48	M8755-ND	2.73	2.05	1.82	PM2110-5R6M-RC
PM2110 Series 10%									
10.00	11.70	6.50	0.01	14.48	M8756-ND	2.73	2.05	1.82	PM2110-100K-RC
12.00	11.30	7.60	0.01	14.48	M8757-ND	2.73	2.05	1.82	PM2110-120K-RC
15.00	10.70	9.20	0.01	14.48	M8758-ND	2.73	2.05	1.82	PM2110-150K-RC
18.00	10.20	10.70	0.01	14.48	M8759-ND	2.73	2.05	1.82	PM2110-180K-RC
22.00	9.70	12.70	0.01	14.48	M8760-ND	2.73	2.05	1.82	PM2110-220K-RC
27.00	8.20	16.00	0.01	13.72	M8761-ND	2.73	2.05	1.82	PM2110-270K-RC
33.00	7.00	20.10	0.02	13.21	M8762-ND	2.73	2.05	1.82	PM2110-330K-RC
39.00	6.80	23.20	0.02	15.75	M8763-ND	2.73	2.05	1.82	PM2110-390K-RC
47.00	6.50	27.20	0.02	15.75	M8764-ND	2.73	2.05	1.82	PM2110-470K-RC
56.00	6.20	31.60	0.02	15.75	M8765-ND	2.73	2.05	1.82	PM2110-560K-RC
68.00	5.90	37.10	0.03	15.75	M8766-ND	2.73	2.05	1.82	PM2110-680K-RC
100.00	5.40	51.40	0.03	15.75	M8767-ND	2.73	2.05	1.82	PM2110-101K-RC
150.00	4.30	77.30	0.05	14.99	M8768-ND	2.73	2.05	1.82	PM2110-151K-RC
180.00	3.70	96.30	0.07	13.46	M8769-ND	2.73	2.05	1.82	PM2110-181K-RC
220.00	3.50	113.80	0.07	15.24	M8770-ND	2.73	2.05	1.82	PM2110-221K-RC
270.00	3.40	134.90	0.08	15.24	M8771-ND	2.73	2.05	1.82	PM2110-271K-RC
330.00	3.20	159.50	0.09	15.24	M8772-ND	2.73	2.05	1.82	PM2110-331K-RC
390.00	3.10	182.90	0.10	15.24	M8773-ND	2.73	2.05	1.82	PM2110-391K-RC
470.00	2.60	230.40	0.13	14.48	M8774-ND	2.73	2.05	1.82	PM2110-471K-RC
820.00	2.00	394.10	0.22	15.24	M8775-ND	2.73	2.05	1.82	PM2110-821K-RC
1000.00	1.90	463.70	0.24	15.24	M8776-ND	2.73	2.05	1.82	PM2110-102K-RC
PM2120 Series 20%									
2.20	19.70	1.80	0.00	20.83	M8777-ND	3.00	2.25	2.00	PM2120-2R2M-RC
4.70	16.60	3.70	0.01	20.83	M8778-ND	3.00	2.25	2.00	PM2120-4R7M-RC
5.60	15.60	4.20	0.01	20.83	M8779-ND	3.00	2.25	2.00	PM2120-5R6M-RC
6.80	14.70	5.00	0.01	20.83	M8780-ND	3.00	2.25	2.00	PM2120-6R8M-RC
PM2120 Series 10%									
10.00	13.90	7.20	0.01	20.83	M8781-ND	3.00	2.25	2.00	PM2120-100K-RC
12.00	12.70	8.30	0.01	20.83	M8782-ND	3.00	2.25	2.00	PM2120-120K-RC
15.00	12.20	10.20	0.01	20.83	M8783-ND	3.00	2.25	2.00	PM2120-150K-RC
18.00	11.80	12.00	0.01	20.83	M8784-ND	3.00	2.25	2.00	PM2120-180K-RC
22.00	11.00	14.20	0.01	20.83	M8785-ND	3.00	2.25	2.00	PM2120-220K-RC
27.00	10.40	16.90	0.01	20.83	M8786-ND	3.00	2.25	2.00	PM2120-270K-RC
33.00	10.10	20.30	0.01	20.83	M8787-ND	3.00	2.25	2.00	PM2120-330K-RC
39.00	9.60	23.30	0.01	20.83	M8788-ND	3.00	2.25	2.00	PM2120-390K-RC
47.00	8.20	29.20	0.02	20.07	M8789-ND	3.00	2.25	2.00	PM2120-470K-RC
56.00	7.90	33.90	0.02	20.07	M8790-ND	3.00	2.25	2.00	PM2120-560K-RC
68.00	6.70	42.20	0.03	19.56	M8791-ND	3.00	2.25	2.00	PM2120-680K-RC
82.00	6.40	49.50	0.03	22.10	M8792-ND	3.00	2.25	2.00	PM2120-820K-RC
100.00	6.10	58.70	0.04	22.10	M8793-ND	3.00	2.25	2.00	PM2120-101K-RC
120.00	5.80	68.10	0.04	22.10	M8794-ND	3.00	2.25	2.00	PM2120-121K-RC
150.00	5.50	82.50	0.04	22.10	M8795-ND	3.00	2.25	2.00	PM2120-151K-RC
180.00	5.30	96.20	0.05	21.08	M8796-ND	3.00	2.25	2.00	PM2120-181K-RC
220.00	5.00	113.70	0.05	21.08	M8797-ND	3.00	2.25	2.00	PM2120-221K-RC
330.00	3.60	183.40	0.10	19.81	M8798-ND	3.00	2.25	2.00	PM2120-331K-RC
390.00	3.50	211.60	0.11	19.81	M8799-ND	3.00	2.25	2.00	PM2120-391K-RC
470.00	3.30	247.10	0.12	21.59	M8800-ND	3.00	2.25	2.00	PM2120-471K-RC
1000.00	2.50	499.70	0.22	20.83	M8801-ND	3.00	2.25	2.00	PM2120-102K-RC

Surface Mount Dual Toroid Inductors

The PM3602 and PM3604 Series are versatile surface mount coils that can provide different functions in a single package. A bifilar method is used in the winding of these coils. The user can utilize these coils in four different ways, depending on the external connection chosen:

(1) Parallel Connection: Doubles the current capacity

(2) Series Connection: 4 times the parallel inductance

(3) Dual Inductor: Creates two differential mode inductors

(4) 1:1 Ratio Transformer: For isolation and some flyback applications

Features:

- Toroidal core design to minimize RFI radiation • Low loss core material • Encapsulated in case for pick and place capability • Reflow soldering • Hi-pot 500V • Operating temperature: -55°C ~ 125°C

Typical Applications:

- Switching power supplies • Converters • Data communications • Processor/controller circuits • Personal computers • Filters

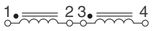

Series Mode

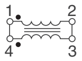

Parallel Mode

Series or parallel connections are made at the circuit level (not an internal connection of the device).

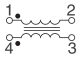

1:1 Transformer/
Dual Differential Mode

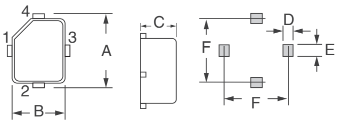

Part No.	Dimensions (mm) A	B	C	D	E	F
PM3602	11.48	8.99	5.71	2.54	2.54	9.78
PM3604	13.97	11.48	6.73	4.06	2.54	12.70

Parallel L ±20% µH	I,dc (Amps) Max.	L ±20% @ I,dc µH	R,dc (Ω) Max.	Series L ±20% µH	I,dc (Amps) Max.	L ±20% @ I,dc µH	R,dc (Ω) Max.	Digi-Key Part No.	Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	J.W.Miller Part No.
PM3602 Series															
5	2.41	3.8	0.023	20	1.20	15.2	0.09	M10135CT-ND	1.77	1.33	1.18	M10135TR-ND	400	354.00	PM3602-5-RC
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M10136CT-ND	1.77	1.33	1.18	M10136TR-ND	400	354.00	PM3602-8-RC
10	1.83	7.4	0.040	40	0.92	29.6	0.16	M10137CT-ND	1.77	1.33	1.18	M10137TR-ND	400	354.00	PM3602-10-RC
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M10138CT-ND	1.77	1.33	1.18	M10138TR-ND	400	354.00	PM3602-15-RC
20	1.25	15.2	0.086	80	0.63	60.8	0.34	M10139CT-ND	1.77	1.33	1.18	M10139TR-ND	700	619.50	PM3602-20-RC
25	1.17	18.5	0.098	100	0.59	74.0	0.39	M10162CT-ND	1.77	1.33	1.18	M10162TR-ND	400	354.00	PM3602-25-RC
33	0.98	24.8	0.14	132	0.49	99.2	0.56	M10140CT-ND	1.77	1.33	1.18	M10140TR-ND	400	354.00	PM3602-33-RC
50	0.78	37.5	0.22	200	0.38	150.0	0.88	M10141CT-ND	1.77	1.33	1.18	M10141TR-ND	400	354.00	PM3602-50-RC
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M10142CT-ND	1.77	1.33	1.18	M10142TR-ND	400	354.00	PM3602-68-RC
100	0.58	74.0	0.40	400	0.29	296.0	1.60	M10143CT-ND	1.77	1.33	1.18	M10143TR-ND	400	354.00	PM3602-100-RC
150	0.47	111	0.60	600	0.24	444.0	2.40	M10144CT-ND	1.77	1.33	1.18	M10144TR-ND	400	354.00	PM3602-150-RC
200	0.40	150.0	0.84	800	0.20	600.0	3.36	M8673-ND	1.77	1.33	1.18	—	—	—	PM3602-200-B-RC
300	0.32	225.0	1.31	1200	0.16	900.0	5.24	M10147CT-ND	1.77	1.33	1.18	M10147TR-ND	400	354.00	PM3602-300-RC
PM3604 Series															
5	3.30	3.8	0.019	20	1.65	15.2	0.076	M10148CT-ND	1.77	1.33	1.18	M10148TR-ND	400	365.80	PM3604-5-RC
8	3.00	5.8	0.024	32	1.50	23.2	0.096	M10149CT-ND	1.77	1.33	1.18	M10149TR-ND	400	365.80	PM3604-8-RC
10	2.70	7.3	0.028	40	1.35	29.2	0.11	M10150CT-ND	1.77	1.33	1.18	M10150TR-ND	400	365.80	PM3604-10-RC
15	2.20	11.0	0.041	60	1.10	44.0	0.16	M10151CT-ND	1.77	1.33	1.18	M10151TR-ND	400	365.80	PM3604-15-RC
20	2.02	14.2	0.049	80	1.01	56.8	0.20	M10152CT-ND	1.77	1.33	1.18	M10152TR-ND	400	365.80	PM3604-20-RC
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M10153CT-ND	1.77	1.33	1.18	M10153TR-ND	400	365.80	PM3604-25-RC
33	1.60	23.1	0.078	132	0.80	92.4	0.31	M10154CT-ND	1.77	1.33	1.18	M10154TR-ND	400	365.80	PM3604-33-RC
50	1.28	35.5	0.12	200	0.64	142.0	0.48	M10155CT-ND	1.77	1.33	1.18	M10155TR-ND	400	365.80	PM3604-50-RC
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M10156CT-ND	1.77	1.33	1.18	M10156TR-ND	400	365.80	PM3604-68-RC
100	0.98	68.0	0.21	400	0.49	272.0	0.84	M10157CT-ND	1.77	1.33	1.18	M10157TR-ND	400	365.80	PM3604-100-RC
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M10158CT-ND	1.77	1.33	1.18	M10158TR-ND	400	365.80	PM3604-150-RC
200	0.65	140.0	0.47	800	0.33	560.0	1.88	M10159CT-ND	1.77	1.33	1.18	M10159TR-ND	400	365.80	PM3604-200-RC
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M10160CT-ND	1.77	1.33	1.18	M10160TR-ND	400	365.80	PM3604-250-RC
300	0.52	213.0	0.73	1200	0.26	852.0	2.92	M10161CT-ND	1.77	1.33	1.18	M10161TR-ND	400	365.80	PM3604-300-RC

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

J.W.Miller
MAGNETICS
A Bourns Company

High Current Toroid Inductors

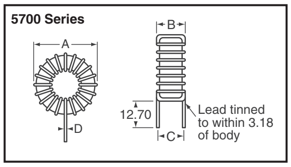

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C Nom.	D Nom.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
5700 Series										
10	11.00	.008	22.23	11.10	8.13	1.63	M8709-ND	5.25	3.94	5701-RC
25	5.50	.014	22.23	11.10	7.62	1.02	M8710-ND	5.25	3.94	5702-RC
125	2.75	.12	22.23	11.10	7.62	.51	M8711-ND	5.25	3.94	5703-RC
275	2.00	.24	22.23	11.10	7.62	.41	M8712-ND	5.25	3.94	5704-RC
450	1.50	.49	22.23	11.10	7.62	.30	M8713-ND	5.25	3.94	5705-RC
75	5.00	.04	28.58	14.27	10.67	.91	M8715-ND	5.25	3.94	5707-RC
50	9.50	.012	31.75	15.88	13.46	1.63	M8717-ND	5.25	3.94	5711-RC
150	4.75	.046	31.75	15.88	12.70	.91	M8718-ND	5.25	3.94	5712-RC
700	2.25	.42	31.75	15.88	12.70	.46	M8719-ND	5.25	3.94	5713-RC
500	4.00	.15	46.02	19.05	16.51	.81	M8722-ND	7.03	6.25	5717-RC
1100	2.50	.33	46.02	19.05	16.51	.64	M8723-ND	7.03	6.25	5718-RC
250	8.00	.041	53.98	23.80	20.07	1.57	M8725-ND	9.34	8.30	5721-RC
900	3.75	.175	53.98	23.80	19.05	.81	M8726-ND	9.34	8.30	5722-RC
1800	2.50	.55	53.98	23.80	19.05	.58	M8727-ND	9.34	8.30	5723-RC
4000	1.75	1.16	53.98	23.80	18.80	.46	M8728-ND	9.34	8.30	5724-RC
8000	1.00	3.34	53.98	23.80	18.80	.30	M8729-ND	9.34	8.30	5725-RC
25	2.50	.040	13.97	5.59	5.33	.51	M8730-ND	4.70	3.53	5726-RC
35	2.50	.035	17.78	8.13	7.62	.64	M8731-ND	4.70	3.53	5727-RC
50	2.50	.060	19.05	8.13	7.11	.51	M8732-ND	4.70	3.53	5728-RC
100	2.50	.080	21.59	9.14	8.38	.51	M8733-ND	4.70	3.53	5729-RC
40	4.00	.025	21.59	9.14	8.64	.81	M8735-ND	4.70	3.53	5731-RC

High Current Toroid Inductors

2100, 2200 and 2300 Series (Std., HT and LL)

2100, 2200, and 2300 Series: Features: • High current • Low radiation • 12.70mm lead length tinned to within 1.59mm of body • Operating Temperature: -55°C ~ 105°C **Typical Applications:** • DC-DC converters • EMI filters • Output Chokes **Notes:** • Rated Idc causes a 30°C temperature rise **2100LL and 2200LL Series: Features:** • Low core loss • Low magnetic radiation • High current capacity • Horizontal mount • Operating Temperature: -55°C ~ 125°C **Typical Applications:** • Switch mode power supplies • DC-DC converters • Output chokes • EMI filters **Notes:** • Rated Idc causes a 30°C temperature rise **2100HT, 2200HT and 2300HT Series: Features:** • High temperature rating, up to 200°C • Low magnetic radiation • High current capacity • Horizontal or vertical mount available • Low cost • Operating Temperature: -55°C ~ 200°C • 12.70mm lead length tinned to within 1.59mm of body **Notes:** • Rated Idc causes a 50°C temperature rise

Fig. 1

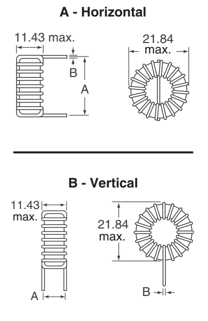

Fig. 2

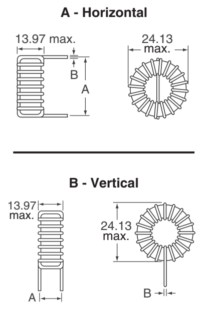

Fig. 3

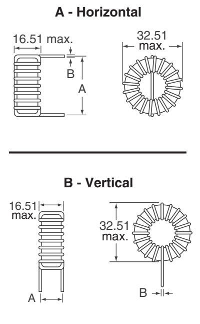

Fig.	L (µH) ±15% @ 1kHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	B Min.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
2100 Series										
1A	10	10.8	6.3	0.006	19.56	1.35	M8802-ND	2.99	2.14	2101-H-RC
	15	7.7	10.2	0.012	19.30	1.07	M8803-ND	2.99	2.14	2103-H-RC
	22	7.0	14.2	0.015	19.30	1.07	M8804-ND	2.99	2.14	2105-H-RC
	33	5.0	22.8	0.029	19.05	0.86	M8805-ND	2.99	2.14	2107-H-RC
	47	3.6	34.7	0.055	19.05	0.69	M8806-ND	2.99	2.14	2109-H-RC
	56	3.4	40.6	0.060	19.05	0.69	M8807-ND	2.99	2.14	2110-H-RC
	68	3.3	48.3	0.067	19.05	0.69	M8808-ND	2.99	2.14	2111-H-RC
	100	2.4	75.2	0.13	18.80	0.56	M8809-ND	2.99	2.14	2112-H-RC
	120	2.2	88.5	0.15	18.80	0.56	M8810-ND	2.99	2.14	2113-H-RC
	150	3.4	84.3	0.062	20.07	0.86	M8811-ND	2.99	2.14	2114-H-RC
	180	2.6	113.1	0.11	19.56	0.69	M8812-ND	2.99	2.14	2115-H-RC
	270	1.8	181.6	0.21	19.30	0.56	M8814-ND	2.99	2.14	2117-H-RC
	330	1.7	216.3	0.23	19.30	0.56	M8815-ND	2.99	2.14	2118-H-RC
	470	1.6	293.8	0.28	19.30	0.56	M8816-ND	2.99	2.14	2120-H-RC
	560	1.5	341.5	0.30	20.07	0.56	M8817-ND	2.99	2.14	2121-H-RC
	1000	1.3	559.2	0.40	20.57	0.56	M8818-ND	2.99	2.14	2124-H-RC
1B	10	10.8	6.3	0.006	8.64	1.35	M8848-ND	2.99	2.14	2101-V-RC
	18	7.4	11.9	0.013	8.38	1.07	M8849-ND	2.99	2.14	2104-V-RC
	22	7.0	14.2	0.015	8.38	1.07	M8850-ND	2.99	2.14	2105-V-RC
	27	5.3	19.1	0.026	8.13	0.86	M8851-ND	2.99	2.14	2106-V-RC
	33	5.0	22.8	0.029	8.13	0.86	M8852-ND	2.99	2.14	2107-V-RC
	39	4.8	26.4	0.032	8.13	0.86	M8853-ND	2.99	2.14	2108-V-RC
	47	3.6	34.7	0.055	7.87	0.69	M8854-ND	2.99	2.14	2109-V-RC
	56	3.4	40.6	0.060	7.87	0.69	M8855-ND	2.99	2.14	2110-V-RC
	100	2.4	75.2	0.13	7.87	0.56	M8856-ND	2.99	2.14	2112-V-RC
	150	3.4	84.3	0.062	8.89	0.86	M8857-ND	2.99	2.14	2114-V-RC
	180	2.6	113.1	0.11	8.64	0.69	M8858-ND	2.99	2.14	2115-V-RC
	220	2.4	134.4	0.12	8.64	0.69	M8859-ND	2.99	2.14	2116-V-RC
	330	1.7	216.3	0.23	8.38	0.56	M8860-ND	2.99	2.14	2118-V-RC
	390	1.7	250.1	0.25	8.38	0.56	M8861-ND	2.99	2.14	2119-V-RC
	470	1.6	293.8	0.28	8.89	0.56	M8862-ND	2.99	2.14	2120-V-RC
	1000	1.3	559.2	0.40	9.40	0.56	M8863-ND	2.99	2.14	2124-V-RC
2200 Series										
2A	22	10.3	13.4	0.010	22.35	1.35	M8819-ND	3.99	2.85	2205-H-RC
	27	9.8	16.0	0.011	22.35	1.35	M8820-ND	3.99	2.85	2206-H-RC
	33	7.4	21.6	0.020	22.10	1.07	M8821-ND	3.99	2.85	2207-H-RC
	47	6.7	29.3	0.024	22.10	1.07	M8822-ND	3.99	2.85	2209-H-RC
	56	6.4	34.1	0.026	22.10	1.07	M8823-ND	3.99	2.85	2210-H-RC
	68	4.9	45.7	0.046	21.84	0.86	M8824-ND	3.99	2.85	2211-H-RC
	100	4.4	64.0	0.056	21.84	0.86	M8825-ND	3.99	2.85	2212-H-RC
	150	3.1	102.7	0.11	21.84	0.69	M8826-ND	3.99	2.85	2214-H-RC
	270	3.4	149.4	0.092	22.86	0.86	M8827-ND	4.34	3.10	2217-H-RC
	330	3.3	176.8	0.10	22.86	0.86	M8828-ND	4.34	3.10	2218-H-RC
	470	2.3	275.9	0.19	22.35	0.69	M8829-ND	4.34	3.10	2220-H-RC
	1000	1.9	521.3	0.28	23.11	0.69	M8830-ND	4.34	3.10	2224-H-RC
2B	10	12.5	6.7	0.007	11.68	1.35	M8864-ND	4.69	3.35	2201-V-RC
	12	12.0	7.9	0.008	11.68	1.35	M8865-ND	4.69	3.35	2202-V-RC
	15	11.3	9.6	0.008	11.68	1.35	M8866-ND	4.69	3.35	2203-V-RC
	18	10.8	11.3	0.009	11.68	1.35	M8867-ND	4.69	3.35	2204-V-RC
	22	10.3	13.4	0.010	11.68	1.35	M8868-ND	4.69	3.35	2205-V-RC
	27	9.8	16.0	0.011	11.68	1.35	M8869-ND	4.69	3.35	2206-V-RC
	33	7.4	21.6	0.020	11.43	1.07	M8870-ND	4.69	3.35	2207-V-RC
	47	6.7	29.3	0.024	11.43	1.07	M8871-ND	4.69	3.35	2209-V-RC
	56	6.4	34.1	0.026	11.43	1.07	M8872-ND	4.69	3.35	2210-V-RC
	100	4.4	64.0	0.056	11.18	0.86	M8873-ND	4.69	3.35	2212-V-RC
	120	3.3	84.4	0.098	11.18	0.69	M8874-ND	4.69	3.35	2213-V-RC
	220	3.6	125.6	0.083	12.19	0.86	M8875-ND	4.69	3.35	2216-V-RC
	330	3.3	176.8	0.10	12.19	0.86	M8876-ND	5.04	3.60	2218-V-RC
	470	2.3	275.9	0.19	11.68	0.69	M8877-ND	5.04	3.60	2220-V-RC
	1000	1.9	521.3	0.28	12.45	0.69	M8878-ND	5.04	3.60	2224-V-RC
2300 Series										
3A	10	20.0	6.7	0.005	29.97	1.68	M8831-ND	3.99	3.00	2301-H-RC
	15	18.0	9.5	0.006	29.97	1.68	M8832-ND	3.99	3.00	2303-H-RC
	22	16.4	13.2	0.007	29.97	1.68	M8833-ND	3.99	3.00	2305-H-RC
	27	15.6	15.7	0.008	29.97	1.68	M8834-ND	3.99	3.00	2306-H-RC
	47	10.7	29.0	0.016	28.96	1.35	M8835-ND	3.99	3.00	2309-H-RC
	56	10.2	33.7	0.017	28.96	1.35	M8836-ND	3.99	3.00	2310-H-RC
	68	7.7	45.2	0.030	28.70	1.07	M8837-ND	3.99	3.00	2311-H-RC
	100	7.0	63.1	0.037	28.70	1.07	M8838-ND	3.99	3.00	2312-H-RC
	120	6.7	73.9	0.040	28.70	1.07	M8839-ND	3.99	3.00	2313-H-RC
	180	4.8	118.9	0.078	28.45	0.86	M8840-ND	3.99	3.00	2315-H-RC
	220	5.8	123.8	0.054	29.72	1.07	M8841-ND	3.99	3.00	2316-H-RC
	330	5.2	174.1	0.067	29.72	1.07	M8842-ND	3.99	3.00	2318-H-RC
	390	5.0	200.2	0.072	29.72	1.07	M8843-ND	3.99	3.00	2319-H-RC
	470	3.8	271.4	0.13	29.46	0.86	M8844-ND	3.99	3.00	2320-H-RC
	560	3.6	314.8	0.14	29.46	0.86	M8845-ND	3.99	3.00	2321-H-RC
	680	3.4	370.7	0.15	29.46	0.86	M8846-ND	3.99	3.00	2322-H-RC
	1000	2.4	593.6	0.30	28.96	0.69	M8847-ND	3.99	3.00	2324-H-RC
3B	10	20.0	6.7	0.005	14.22	1.68	M8879-ND	3.99	3.00	2301-V-RC
	12	19.1	7.8	0.005	14.22	1.68	M8880-ND	3.99	3.00	2302-V-RC
	22	16.4	13.2	0.007	14.22	1.68	M8881-ND	3.99	3.00	2305-V-RC
	27	15.6	15.7	0.008	14.22	1.68	M8882-ND	3.99	3.00	2306-V-RC
	33	11.7	21.3	0.013	13.46	1.35	M8883-ND	3.99	3.00	2307-V-RC
	39	11.2	24.7	0.014	13.46	1.35	M8884-ND	3.99	3.00	2308-V-RC
	47	10.7	29.0	0.016	13.46	1.35	M8885-ND	3.99	3.00	2309-V-RC
	56	10.2	33.7	0.017	13.46	1.35	M8886-ND	3.99	3.00	2310-V-RC
	68	7.7	45.2	0.030	13.21	1.07	M8887-ND	3.99	3.00	2311-V-RC
	100	7.0	63.1	0.037	13.21	1.07	M8888-ND	3.99	3.00	2312-V-RC
	120	6.7	73.9	0.040	13.21	1.07	M8889-ND	3.99	3.00	2313-V-RC
	150	5.0	101.4	0.071	12.95	0.86	M8890-ND	3.99	3.00	2314-V-RC
	270	5.5	147.2	0.060	14.22	1.07	M8891-ND	3.99	3.00	2317-V-RC
	330	5.2	174.1	0.067	14.22	1.07	M8892-ND	3.99	3.00	2318-V-RC
	390	5.0	200.2	0.072	14.22	1.07	M8893-ND	3.99	3.00	2319-V-RC
	470	3.8	271.4	0.13	13.72	0.86	M8894-ND	3.99	3.00	2320-V-RC
	1000	2.4	593.6	0.30	13.46	0.69	M8895-ND	3.99	3.00	2324-V-RC
Low Loss										
2100LL Series										
1A	10	11.4	5.2	0.005	20.32	1.35	M1400-ND	3.50	2.63	2100LL-100-H-RC
	12	10.9	6.1	0.006	20.32	1.35	M1401-ND	3.50	2.63	2100LL-120-H-RC
	15	10.5	7.3	0.006	20.32	1.35	M1402-ND	3.50	2.63	2100LL-150-H-RC
	18	10.1	8.5	0.007	20.32	1.35	M1403-ND	3.50	2.63	2100LL-180-H-RC
	22	7.5	11.8	0.012	19.81	1.07	M1404-ND	3.50	2.63	2100LL-220-H-RC
	27	7.3	14.2	0.012	19.81	1.07	M1405-ND	3.50	2.63	2100LL-270-H-RC
	33	6.9	16.6	0.014	19.81	1.07	M1406-ND	3.50	2.63	2100LL-330-H-RC
	39	6.6	18.8	0.015	19.81	1.07	M1407-ND	3.50	2.63	2100LL-390-H-RC
	47	5.2	25.3	0.024	19.30	0.86	M1408-ND	3.50	2.63	2100LL-470-H-RC
	56	5.0	29.3	0.026	19.30	0.86	M1409-ND	3.50	2.63	2100LL-560-H-RC
	68	4.7	34.0	0.030	19.30	0.86	M1410-ND	3.50	2.63	2100LL-680-H-RC
	82	4.6	39.9	0.032	19.30	0.86	M1411-ND	3.50	2.63	2100LL-820-H-RC
	100	4.3	46.2	0.036	19.30	0.86	M1412-ND	3.50	2.63	2100LL-101-H-RC
	120	4.1	53.5	0.039	19.30	0.86	M1413-ND	3.50	2.63	2100LL-121-H-RC
	150	3.9	63.8	0.043	19.30	0.86	M1414-ND	3.50	2.63	2100LL-151-H-RC
	180	3.7	73.3	0.048	19.30	0.86	M1415-ND	3.50	2.63	2100LL-181-H-RC
	220	3.5	85.1	0.053	19.30	0.86	M1416-ND	3.50	2.63	2100LL-221-H-RC
	270	2.7	124.2	0.093	18.80	0.69	M1417-ND	3.50	2.63	2100LL-271-H-RC
	330	2.5	145.1	0.103	18.80	0.69	M1418-ND	3.50	2.63	2100LL-331-H-RC
	390	2.4	165.4	0.112	18.80	0.69	M1419-ND	3.50	2.63	2100LL-391-H-RC
	470	2.3	190.1	0.124	19.30	0.69	M1420-ND	3.50	2.63	2100LL-471-H-RC

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

J.W.Miller MAGNETICS
A Bourns Company

High Current Toroid Inductors *(Cont.)*

Fig.	L (µH) ±15% @ 1kHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	Dim. (mm) B Min.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
					2200LL Series					
2A	10	14.3	6.0	0.006	26.67	1.35	M1421-ND	4.75	3.57	2200LL-100-H-RC
	12	14.2	6.9	0.006	26.67	1.35	M1422-ND	4.75	3.57	2200LL-120-H-RC
	15	13.6	8.3	0.007	26.67	1.35	M1423-ND	4.75	3.57	2200LL-150-H-RC
	18	13.1	9.7	0.007	26.67	1.35	M1424-ND	4.75	3.57	2200LL-180-H-RC
	22	12.6	11.5	0.008	26.67	1.35	M1425-ND	4.75	3.57	2200LL-220-H-RC
	27	11.8	13.5	0.009	26.67	1.35	M1426-ND	4.75	3.57	2200LL-270-H-RC
	33	11.1	15.7	0.010	26.67	1.35	M1427-ND	4.75	3.57	2200LL-330-H-RC
	39	10.8	18.1	0.011	26.67	1.35	M1428-ND	4.75	3.57	2200LL-390-H-RC
	47	10.3	20.9	0.012	26.67	1.35	M1429-ND	4.75	3.57	2200LL-470-H-RC
	56	9.8	23.9	0.013	26.67	1.35	M1430-ND	4.75	3.57	2200LL-560-H-RC
	68	7.6	33.9	0.022	26.16	1.07	M1431-ND	4.75	3.57	2200LL-680-H-RC
	82	7.1	39.0	0.024	26.16	1.07	M1432-ND	4.75	3.57	2200LL-820-H-RC
	100	6.8	45.6	0.027	26.16	1.07	M1433-ND	4.75	3.57	2200LL-101-H-RC
	120	5.1	63.4	0.047	25.65	0.86	M1434-ND	4.75	3.57	2200LL-121-H-RC
	150	4.9	76.0	0.052	25.65	0.86	M1435-ND	4.75	3.57	2200LL-151-H-RC
	180	4.7	88.5	0.057	25.65	0.86	M1436-ND	4.75	3.57	2200LL-181-H-RC
	220	4.4	103.1	0.063	25.65	0.86	M1437-ND	4.75	3.57	2200LL-221-H-RC
	270	4.0	141.9	0.077	25.65	0.69	M1439-ND	4.75	3.57	2200LL-331-H-RC
	390	3.8	161.2	0.084	25.65	0.69	M1440-ND	4.75	3.57	2200LL-391-H-RC
	470	3.7	185.7	0.092	25.65	0.69	M1441-ND	4.75	3.57	2200LL-471-H-RC
					High Temperature					
					2100HT Series					
1A	10	9.9	7.6	0.012	19.30	1.07	M8917-ND	3.15	2.25	2100HT-100-H-RC
	15	9.1	11.0	0.014	19.30	1.07	M8918-ND	3.15	2.25	2100HT-150-H-RC
	33	6.1	24.0	0.031	20.07	0.86	M8919-ND	3.15	2.25	2100HT-330-H-RC
	47	5.6	33.1	0.036	20.07	0.86	M8920-ND	3.15	2.25	2100HT-470-H-RC
	100	4.6	64.5	0.053	20.07	0.86	M8921-ND	3.15	2.25	2100HT-101-H-RC
	47	5.6	33.1	0.036	8.89	0.86	M8922-ND	3.15	2.25	2100HT-470-V-RC
					2200HT Series					
2A	12	10.9	9.4	0.015	22.35	1.35	M8923-ND	3.89	2.50	2200HT-120-H-RC
	39	8.1	27.4	0.026	22.10	1.07	M8924-ND	3.33	2.50	2200HT-390-H-RC
	100	5.3	68.9	0.061	22.86	0.86	M8925-ND	3.33	2.50	2200HT-101-H-RC
	180	4.6	115.6	0.082	22.86	0.86	M8926-ND	3.33	2.50	2200HT-181-H-RC
					2300HT Series					
3A	10	23.3	7.2	0.006	29.97	1.68	M8927-ND	5.13	3.85	2300HT-100-H-RC
	33	13.6	23.0	0.015	28.96	1.35	M8928-ND	5.13	3.85	2300HT-330-H-RC
	47	10.0	34.7	0.028	28.70	1.07	M8929-ND	5.13	3.85	2300HT-470-H-RC
	150	7.5	97.9	0.050	29.72	1.07	M8930-ND	5.13	3.85	2300HT-151-H-RC
	220	6.8	136.6	0.061	29.72	1.07	M8931-ND	5.13	3.85	2300HT-221-H-RC
	330	4.9	218.3	0.10	29.46	0.94	M8932-ND	5.13	3.85	2300HT-331-H-RC
	470	4.5	297.9	0.14	29.46	0.94	M8933-ND	5.13	3.85	2300HT-471-H-RC
3B	10	23.3	7.2	0.006	14.22	1.68	M8934-ND	5.13	3.85	2300HT-100-V-RC
	22	19.0	14.5	0.008	14.22	1.68	M8935-ND	5.13	3.85	2300HT-220-V-RC
	47	10.0	34.7	0.028	13.21	1.07	M8936-ND	5.13	3.85	2300HT-470-V-RC

Common Mode Choke with Header

8100 Series

8101-8103 Series

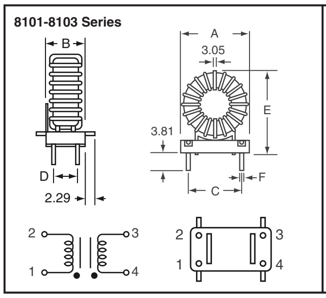

8104-8121 Series

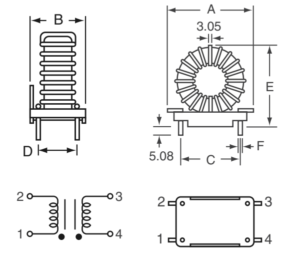

L (mH) Min. @ 1kHz	I Max. (A)	R,dc Max. (Ω)	Dimensions (mm) A Max.	B ±0.01	C ±0.015	D ±0.015	E Max.	F Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
4	1.7	0.173	19.30	10.79	15.24	6.35	22.86	1.02	M8896-ND	5.70	4.28	8101-RC
2.5	2.4	0.09	19.30	10.79	15.24	6.35	22.86	1.02	M8897-ND	5.70	4.28	8102-RC
1	4.8	0.022	19.30	10.79	15.24	6.35	22.86	1.02	M8898-ND	5.70	4.28	8103-RC
10	2.4	0.17	30.48	15.24	20.32	10.16	30.48	1.27	M8899-ND	7.98	5.99	8104-RC
7	2.8	0.12	30.48	15.24	20.32	10.16	30.48	1.27	M8900-ND	7.98	5.99	8105-RC
5	3.7	0.07	30.48	15.24	20.32	10.16	30.48	1.27	M8901-ND	7.98	5.99	8106-RC
2	6.6	0.022	30.48	15.24	20.32	10.16	30.48	1.27	M8902-ND	7.98	5.99	8107-RC
1	10	0.01	30.48	15.24	20.32	10.16	30.48	1.27	M8903-ND	7.98	5.99	8108-RC
30	2.3	0.33	34.29	20.32	22.86	15.24	36.83	1.27	M8904-ND	7.98	5.99	8109-RC
20	2.9	0.21	34.29	20.32	22.86	15.24	36.83	1.27	M8905-ND	12.54	9.41	8110-RC
12	4	0.11	34.29	20.32	22.86	15.24	36.83	1.27	M8906-ND	12.54	9.41	8111-RC
8	5.6	0.055	34.29	20.32	22.86	15.24	36.83	1.27	M8907-ND	12.54	9.41	8112-RC
5	8.9	0.022	36.83	20.32	22.86	15.24	38.10	1.09	M8908-ND	12.54	9.41	8113-RC
2.5	12.5	0.011	36.83	20.32	22.86	15.24	38.10	1.35	M8909-ND	12.54	9.41	8114-RC
1.2	16	0.006	38.10	20.32	22.86	15.24	38.86	1.52	M8910-ND	12.54	9.41	8115-RC
50	2.3	0.45	39.37	20.32	22.86	15.24	41.91	1.27	M8911-ND	11.97	10.64	8116-RC
36	2.9	0.3	39.37	20.32	22.86	15.24	41.91	1.27	M8912-ND	11.97	10.64	8117-RC
7.3	9.3	0.032	41.91	20.32	22.86	15.24	41.91	1.09	M8913-ND	11.97	10.64	8118-RC
4	14.5	0.012	43.18	22.86	30.48	17.78	41.91	1.52	M8914-ND	11.97	10.64	8119-RC
2.4	17	0.008	43.18	22.86	30.48	17.78	41.91	1.70	M8915-ND	11.97	10.64	8120-RC
1	20	0.007	43.18	22.86	30.48	17.78	41.91	1.70	M8916-ND	11.97	10.64	8121-RC

SMT Common Mode Chokes

3700 Series

Digi-Reel®

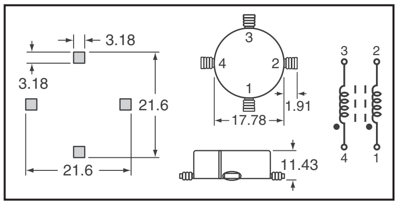

L (mH)	DCR (Ω) Max.	I* (A)	Freq. Range with 20dB Atten. (Typ.)	Digi-Key Part No.	Price Each 1	Price Each 10	Tape and Reel Pricing‡ 200	J.W.Miller Part No.
0.2	0.008	7.0	5-55MHz	M8937CT-ND	2.85	2.14	266.00	PM3700-10-RC
0.75	0.012	5.5	1-20MHz	M8938CT-ND	2.85	2.14	266.00	PM3700-30-RC
2.0	0.03	3.5	300kHz-20MHz	M3939CT-ND	2.85	2.14	266.00	PM3700-50-RC
20	0.25	1.0	25kHz-4MHz	M3940CT-ND	2.85	2.14	266.00	PM3700-80-RC

* Current to cause 35°C maximum temperature rise. ‡ For Tape and Reel part number, change CT-ND to TR-ND.

High Current RF Chokes

1110, 1120, 1130 and 1140 Series

1110 Series

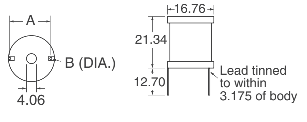

1120 Series

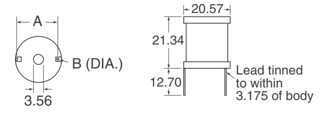

1130 Series

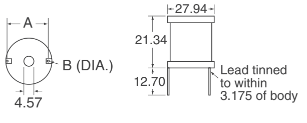

1140 Series

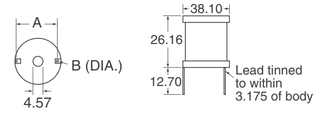

L (uH) ±20% @ 1kHz	DCR (Ω) Max.	I,dc (A)	Dimension (mm) A Approx.	Dimension (mm) B Nom.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	J.W.Miller Part No.
				1110 Series 10%					
10.00	0.01	9.00	13.97	1.27	M8338-ND	3.15	2.37	2.10	1110-100K-RC
12.00	0.01	9.00	13.97	1.27	M8339-ND	3.15	2.37	2.10	1110-120K-RC
15.00	0.02	7.20	13.46	1.27	M8340-ND	3.15	2.37	2.10	1110-150K-RC
22.00	0.02	5.50	13.46	1.27	M8341-ND	3.15	2.37	2.10	1110-220K-RC
47.00	0.06	2.80	13.46	1.02	M8342-ND	3.15	2.37	2.10	1110-470K-RC
100.00	0.10	2.80	12.70	0.76	M8343-ND	3.15	2.37	2.10	1110-101K-RC
220.00	0.24	1.60	12.70	0.76	M8345-ND	3.15	2.37	2.10	1110-221K-RC
330.00	0.34	1.30	11.94	0.51	M8346-ND	3.15	2.37	2.10	1110-331K-RC
560.00	0.70	0.80	11.94	0.51	M8347-ND	3.15	2.37	2.10	1110-561K-RC
				1120 Series 20%					
4.70	0.01	11.40	16.00	1.52	M8348-ND	4.44	3.33	2.96	1120-4R7M-RC
				1120 Series 10%					
47.00	0.04	5.50	15.75	1.27	M8351-ND	4.44	3.33	2.96	1120-470K-RC
68.00	0.05	4.80	15.75	1.02	M8352-ND	4.44	3.33	2.96	1120-680K-RC
100.00	0.08	4.00	15.75	1.02	M8354-ND	4.44	3.33	2.96	1120-101K-RC
150.00	0.10	4.00	15.75	0.76	M8355-ND	4.44	3.33	2.96	1120-151K-RC
220.00	0.15	2.80	15.75	0.76	M8356-ND	4.44	3.33	2.96	1120-221K-RC
270.00	0.21	2.00	15.24	0.76	M8357-ND	4.44	3.33	2.96	1120-271K-RC
470.00	0.36	1.60	15.24	0.76	M8358-ND	4.44	3.33	2.96	1120-471K-RC
1500.00	1.26	0.80	15.24	0.51	M8360-ND	4.44	3.33	2.96	1120-152K-RC
				1130 Series 20%					
1.20	0.00	21.00	20.32	2.03	M8361-ND	6.75	5.07	4.50	1130-1R2M-RC
				1130 Series 10%					
10.00	0.01	17.00	20.83	2.03	M8363-ND	6.75	5.07	4.50	1130-100K-RC
100.00	0.03	9.00	20.07	1.27	M8365-ND	6.75	5.07	4.50	1130-101K-RC
120.00	0.05	7.20	20.07	1.27	M8366-ND	6.75	5.07	4.50	1130-121K-RC
220.00	0.08	5.50	19.56	1.02	M8367-ND	6.75	5.07	4.50	1130-221K-RC
470.00	0.19	4.00	19.56	1.02	M8368-ND	6.75	5.07	4.50	1130-471K-RC
680.00	0.26	2.80	19.56	0.76	M8370-ND	6.75	5.07	4.50	1130-681K-RC
1500.00	0.52	2.00	19.05	0.76	M8371-ND	6.75	5.07	4.50	1130-152K-RC
3300.00	1.27	1.30	19.05	0.51	M8372-ND	6.75	5.07	4.50	1130-332K-RC
4700.00	1.86	1.00	19.05	0.51	M8373-ND	6.75	5.07	4.50	1130-472K-RC
				1140 Series 10%					
18.00	0.01	27.00	29.21	2.03	M8374-ND	9.56	8.50	7.44	1140-180K-RC
33.00	0.01	21.00	29.21	1.78	M8375-ND	9.56	8.50	7.44	1140-330K-RC
100.00	0.03	14.40	29.21	1.52	M8377-ND	9.56	8.50	7.44	1140-101K-RC
120.00	0.03	14.40	29.21	1.52	M8378-ND	9.56	8.50	7.44	1140-121K-RC
220.00	0.05	11.40	29.21	1.27	M8379-ND	9.56	8.50	7.44	1140-221K-RC
330.00	0.07	11.40	29.21	1.27	M8380-ND	9.56	8.50	7.44	1140-331K-RC
820.00	0.15	7.20	29.21	1.02	M8381-ND	9.56	8.50	7.44	1140-821K-RC
2200.00	0.49	4.00	27. 94	0.76	M8383-ND	9.56	8.50	7.44	1140-222K-RC
3900.00	0.85	2.80	27.94	0.76	M8384-ND	9.56	8.50	7.44	1140-392K-RC
4700.00	1.14	2.00	28.45	0.76	M8385-ND	9.56	8.50	7.44	1140-472K-RC
10,000.00	2.76	1.30	28.19	0.51	M8386-ND	9.56	8.50	7.44	1140-103K-RC
15,000.00	3.39	1.30	27.94	0.51	M8387-ND	9.56	8.50	7.44	1140-153K-RC

J.W.Miller
MAGNETICS
A Bourns Company

Conformal Coated RF Chokes

RoHS COMPLIANT

Dimensions in mm

Features:
- Epoxy coating
- Operating Temperature: -55°C ~ 105°C

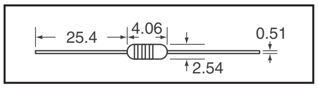

L (µH) 20%	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	J.W.Miller Part No.
0.10	25	700	M8110CT-ND†	.30	2.85	79FR10M-TR-RC
0.10	25	700	M8110TB-ND‡	180.00/2,000		79FR10M-TR-RC

L (µH) 10%	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	J.W.Miller Part No.
1.0	25	270	M8122CT-ND†	.30	2.85	79F1R0K-TR-RC
1.0	25	270	M8122TB-ND‡	180.00/2,000		79F1R0K-TR-RC
1.8	7.9	240	M8125CT-ND†	.30	2.70	79F1R8K-TR-RC
1.8	7.9	240	M8125TB-ND‡	180.00/2,000		79F1R8K-TR-RC
4.7	7.9	190	M8130CT-ND†	.30	2.70	79F4R7K-TR-RC
4.7	7.9	190	M8130TB-ND‡	180.00/2,000		79F4R7K-TR-RC
10	7.9	160	M8134CT-ND†	.30	2.70	79F100K-TR-RC
10	7.9	160	M8134TB-ND‡	180.00/2,000		79F100K-TR-RC
22	2.5	100	M8138CT-ND†	.30	2.70	79F220K-TR-RC
22	2.5	100	M8138TB-ND‡	180.00/2,000		79F220K-TR-RC
27	2.5	80	M8139CT-ND†	.30	2.70	79F270K-TR-RC
27	2.5	80	M8139TB-ND‡	180.00/2,000		79F270K-TR-RC
47	2.5	70	M8142CT-ND†	.30	2.70	79F470K-TR-RC
47	2.5	70	M8142TB-ND‡	180.00/2,000		79F470K-TR-RC
56	2.5	68	M8143CT-ND†	.30	2.70	79F560K-TR-RC
56	2.5	68	M8143TB-ND‡	180.00/2,000		79F560K-TR-RC
100	2.5	44	M8146CT-ND†	.30	2.70	79F101K-TR-RC
100	2.5	44	M8146TB-ND‡	168.00/2,000		79F101K-TR-RC
220	0.79	35	M8150CT-ND†	.30	2.70	79F221K-TR-RC
220	0.79	35	M8150TB-ND‡	180.00/2,000		79F221K-TR-RC

† Cut Tape ‡ Tape and Box

Coiled RF Chokes

RoHS COMPLIANT

Dimensions in Inches

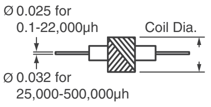

L (µH) 5%	Test Freq. (MHz)	I,dc Max. (mA)	DCR Ω Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
Iron Core							
1.0†	25	2041	0.048	M8388-ND	1.25	1.00	70F106AI-RC
2.2††	7.9	1132	0.156	M8398-ND	1.25	1.00	70F226AI-RC
3.3††	7.9	912	0.24	M8403-ND	1.25	1.00	70F336AI-RC
4.7††	7.9	661	0.457	M8409-ND	1.25	1.00	70F476AI-RC
6.8††	7.9	566	0.624	M8412-ND	1.25	1.00	70F686AI-RC
10††	7.9	277	1.56	M8389-ND	1.20	.90	70F105AI-RC
22	2.5	229	2.28	M8394-ND	1.20	.90	70F225AI-RC
33	2.5	208	2.76	M8399-ND	1.20	.90	70F335AI-RC
47	2.5	188	3.36	M8404-ND	1.20	.90	70F475AI-RC
100	2.5	139	7.68	M8390-ND	1.52	1.14	70F104AI-RC
470	0.79	95	16.3	M8405-ND	1.52	1.14	70F474AI-RC
1,000	.79	79	24.0	M8391-ND	1.68	1.26	70F103AI-RC
2,200	.25	57	45.6	M8395-ND	1.68	1.26	70F223AI-RC
3,300	.25	53	51.6	M8400-ND	1.68	1.26	70F333AI-RC
10,000	.25	38	101	M8392-ND	2.00	1.50	70F102AI-RC
22,000	.079	41	144	M8396-ND	1.75	1.25	70F222AI-RC
Ferrite Core							
33,000	.079	43	134	M8401-ND	1.75	1.25	70F332AF-RC
47,000	.079	38	168	M8407-ND	1.75	1.25	70F472AF-RC
68,000	.079	34	215	M8411-ND	1.75	1.25	70F682AF-RC
100,000	.079	29	278	M8393-ND	3.26	2.33	70F101AF-RC
220,000	.025	39	424	M8397-ND	3.26	2.33	70F221AF-RC
330,000	.025	34	540	M8402-ND	3.26	2.33	70F331AF-RC
470,000	.025	30	704	M8408-ND	3.26	2.33	70F471AF-RC

† 20% tolerance †† 10% tolerance

Hash Chokes

RoHS COMPLIANT

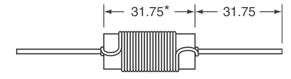

* 5230 Form Length is 22.23

L (µH) 20%	R,dc Max. (Ω)	I,dc Max. (A)	Coil Dia. Max. (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
Ferrite Core							
4	.012	8	9.65	M8268-ND	1.96	1.47	5230-RC
40	.082	3	7.87	M8269-ND	1.96	1.47	5240-RC
68	.054	5	14.22	M8270-ND	1.72	1.23	5248-RC
100	.216	2	9.65	M8271-ND	1.72	1.23	5250-RC
125	.08	3.5	12.70	M8272-ND	1.72	1.23	5252-RC
250	.17	2.5	11.18	M8273-ND	1.72	1.23	5254-RC
500	.26	2	14.22	M8274-ND	1.72	1.23	5256-RC
1,000	.55	1	12.70	M8275-ND	1.72	1.23	5258-RC

Varnished Chokes

RoHS COMPLIANT

Features: • High W, high self-resonant frequency • High voltage application • Varnish coated • Ferrite core • Operating Temperature: -55°C ~ 105°C

Dimensions in Inches

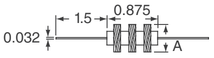

L (µH) 5%	Test Freq. (MHz)	I,dc Max. (A)	R,dc Max. (Ω)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
2,500	0.252	160	9.0	M10164-ND	2.23	1.60	6302-RC
5,000	0.252	160	14.0	M10165-ND	2.23	1.60	6304-RC
10,000	0.079	100	31.0	M10163-ND	2.23	1.60	6306-RC

Molded RF Chokes

RoHS COMPLIANT

9230 Series:

Form Length: 6.35mm; Form Diameter: 2.41mm; Lead Length: 38.10mm; Tolerance: ±10%

9250A Series:

Form Length: 10.41mm; Form Diameter: 4.11mm; Lead Length: 25.4mm; Tolerance: ±10%. The 9250A uses a ferrite compound for the shield, as opposed to the 9250 which uses a ferrite sleeve.

L (µH)	Test Freq. (MHz)	I,dc Max. (mA)	DCR Ω Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
9230 Series — Unshielded							
Phenolic Core							
0.1	25.0	1100	0.07	M8656-ND	1.63	1.30	9230-94-RC
0.15	25.0	1100	0.10	M8657-ND	1.63	1.30	9230-00-RC
0.22	25.0	935	0.14	M8658-ND	1.63	1.30	9230-04-RC
0.33	25.0	780	0.20	M8659-ND	1.63	1.30	9230-08-RC
0.47	25.0	590	0.35	M8660-ND	1.63	1.30	9230-12-RC
0.68	25.0	450	0.60	M8661-ND	1.63	1.30	9230-16-RC
1.0	25.0	350	1.0	M8641-ND	1.63	1.30	9230-20-RC
Iron Core							
2.2	7.9	550	0.40	M8647-ND	1.30	.98	9230-28-RC
3.3	7.9	380	0.85	M8650-ND	1.30	.98	9230-32-RC
4.7	7.9	320	1.2	M8653-ND	1.30	.98	9230-36-RC
6.8	7.9	245	2.0	M8655-ND	1.30	.98	9230-40-RC
10	7.9	180	3.7	M8642-ND	1.30	.98	9230-44-RC
22	2.5	190	3.3	M8645-ND	1.30	.98	9230-52-RC
Ferrite Core							
33	2.5	187	3.4	M8648-ND	1.60	1.20	9230-56-RC
47	2.5	165	4.5	M8651-ND	1.60	1.20	9230-60-RC
68	2.5	135	6.7	M8654-ND	1.60	1.20	9230-64-RC
100	2.5	125	8.0	M8643-ND	1.60	1.20	9230-68-RC
220	0.79	73	21	M8646-ND	1.60	1.20	9230-76-RC
330	0.79	62	28	M8649-ND	1.60	1.20	9230-80-RC
470	0.79	50	42	M8652-ND	1.60	1.20	9230-84-RC
1,000	0.79	38	72	M8644-ND	1.60	1.20	9230-92-RC
9250A Series — Shielded							
Phenolic Core							
.10	25	1790	0.025	M10079-ND	1.84	1.38	9250A-101-RC
0.15	25	1470	0.037	M10090-ND	1.84	1.38	9250A-151-RC
0.18	25	1300	0.047	M10095-ND	1.84	1.38	9250A-181-RC
0.22	25	1100	0.067	M10099-ND	1.84	1.38	9250A-221-RC
0.33	25	780	0.13	M10109-ND	1.84	1.38	9250A-331-RC
0.39	25	670	0.18	M10115-ND	1.84	1.38	9250A-391-RC
0.82	25	370	0.59	M10129-ND	1.84	1.38	9250A-821-RC
Iron Core							
1.0	25	1070	0.07	M10080-ND	1.84	1.38	9250A-102-RC
1.2	7.9	895	0.10	M10086-ND	1.84	1.38	9250A-122-RC
1.5	7.9	815	0.12	M10091-ND	1.84	1.38	9250A-152-RC
2.2	7.9	650	0.19	M10100-ND	1.84	1.38	9250A-222-RC
3.3	7.9	480	0.35	M10110-ND	1.84	1.38	9250A-332-RC
3.9	7.9	450	0.40	M10116-ND	1.84	1.38	9250A-392-RC
4.7	7.9	380	0.55	M10118-ND	1.84	1.38	9250A-472-RC
5.6	7.9	335	0.72	M10123-ND	1.84	1.38	9250A-562-RC
8.2	7.9	250	1.32	M10130-ND	1.84	1.38	9250A-822-RC
10	7.9	220	1.62	M10081-ND	1.84	1.38	9250A-103-RC
Ferrite Core							
12	2.5	200	2.0	M10087-ND	1.84	1.38	9250A-123-RC
15	2.5	315	0.80	M10092-ND	1.84	1.38	9250A-153-RC
18	2.5	300	0.89	M10096-ND	1.84	1.38	9250A-183-RC
22	2.5	290	0.96	M10101-ND	1.84	1.38	9250A-223-RC
27	2.5	260	1.19	M10105-ND	1.84	1.38	9250A-273-RC
33	2.5	240	1.37	M10111-ND	1.84	1.38	9250A-333-RC
39	2.5	205	1.93	M10117-ND	1.84	1.38	9250A-393-RC
47	2.5	195	2.11	M10119-ND	1.84	1.38	9250A-473-RC
82	2.5	180	2.44	M10131-ND	1.84	1.38	9250A-823-RC
100	2.5	160	3.12	M10082-ND	1.84	1.38	9250A-104-RC
150	0.79	140	4.1	M10093-ND	1.84	1.38	9250A-154-RC
180	0.79	135	4.4	M10097-ND	1.84	1.38	9250A-184-RC
220	0.79	125	5.0	M10102-ND	1.84	1.38	9250A-224-RC
270	0.79	115	5.8	M10106-ND	1.84	1.38	9250A-274-RC
330	0.79	110	6.4	M10112-ND	1.84	1.38	9250A-334-RC
470	0.79	92	9.5	M10120-ND	1.84	1.38	9250A-474-RC
560	0.79	90	10.5	M10124-ND	1.84	1.38	9250A-564-RC
680	0.79	80	11.8	M10126-ND	1.84	1.38	9250A-684-RC
820	0.79	80	13.0	M10132-ND	1.84	1.38	9250A-824-RC
1,000	0.79	70	17.5	M10083-ND	1.84	1.38	9250A-105-RC
1,200	0.25	60	22.1	M10088-ND	1.61	1.15	9250A-125-RC
1,500	0.25	55	26.5	M10094-ND	1.61	1.15	9250A-155-RC
1,800	0.25	50	29.9	M10098-ND	1.61	1.15	9250A-185-RC
2,200	0.25	50	33.8	M10103-ND	1.61	1.15	9250A-225-RC
2,700	0.25	40	47.3	M10107-ND	1.61	1.15	9250A-275-RC
3,300	0.25	40	53.0	M10113-ND	1.61	1.15	9250A-335-RC
4,700	0.25	31	81.6	M10121-ND	1.61	1.15	9250A-475-RC
6,800	0.25	27	111	M10127-ND	1.61	1.15	9250A-685-RC
8,200	0.25	26	119	M10133-ND	1.61	1.15	9250A-825-RC
10,000	0.25	24	137	M10084-ND	1.61	1.15	9250A-106-RC
12,000	0.079	23	143	M10089-ND	1.61	1.15	9250A-126-RC
22,000	0.079	17	274	M10104-ND	1.61	1.15	9250A-226-RC
27,000	0.079	16	308	M10108-ND	1.61	1.15	9250A-276-RC
33,000	0.079	15	343	M10114-ND	1.61	1.15	9250A-336-RC
47,000	0.079	13	473	M10122-ND	1.61	1.15	9250A-476-RC
56,000	0.079	13	512	M10125-ND	1.61	1.15	9250A-566-RC
68,000	0.079	12	580	M10128-ND	1.61	1.15	9250A-686-RC
82,000	0.079	11	618	M10134-ND	1.38	1.04	9250A-826-RC
100,000	0.079	11	678	M10085-ND	1.38	1.04	9250A-107-RC

J.W.Miller
MAGNETICS
A Bourns Company

Filter and Miniature High Current Chokes

Inductance ±15% @ 1kHz. Coils finished with sleeving VW1 Rated. Leads No. 20 tinned copper 1" long minimum
Ambient Temperature: -55°C ~ 125°C

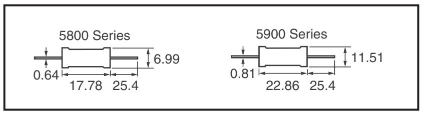

L (µH) ±10%	Max. DCR Ω @ +20°C	Rated Current Amp	Digi-Key Part No.	Price Each		J.W.Miller Part No.
				1	10	
5800 Series						
3.9	.019	1.28	M8276-ND	1.33	1.00	5800-3R9-RC
4.7	.022	1.28	M8277-ND	1.33	1.00	5800-4R7-RC
10	.033	1.28	M8278-ND	1.33	1.00	5800-100-RC
12	.037	1.28	M8279-ND	1.33	1.00	5800-120-RC
15	.040	1.28	M8280-ND	1.33	1.00	5800-150-RC
18	.044	1.28	M8281-ND	1.33	1.00	5800-180-RC
22	.050	1.28	M8282-ND	1.33	1.00	5800-220-RC
27	.058	1.28	M8283-ND	1.33	1.00	5800-270-RC
33	.075	1.008	M8284-ND	1.33	1.00	5800-330-RC
39	.094	0.804	M8285-ND	1.33	1.00	5800-390-RC
47	.109	0.804	M8286-ND	1.33	1.00	5800-470-RC
56	.140	0.804	M8287-ND	1.33	1.00	5800-560-RC
68	.145	0.804	M8288-ND	1.33	1.00	5800-680-RC
82	.152	0.804	M8289-ND	1.33	1.00	5800-820-RC
100	.208	0.632	M8290-ND	1.33	1.00	5800-101-RC
120	.283	0.508	M8291-ND	1.33	1.00	5800-121-RC
150	.340	0.508	M8292-ND	1.33	1.00	5800-151-RC
180	.362	0.508	M8293-ND	1.33	1.00	5800-181-RC
220	.430	0.508	M8294-ND	1.33	1.00	5800-221-RC
270	.557	0.400	M8295-ND	1.33	1.00	5800-271-RC
330	.665	0.400	M8296-ND	1.33	1.00	5800-331-RC
390	.772	0.400	M8297-ND	1.33	1.00	5800-391-RC
470	1.15	0.315	M8298-ND	1.33	1.00	5800-471-RC
560	1.27	0.315	M8299-ND	1.33	1.00	5800-561-RC
680	1.61	0.250	M8300-ND	1.33	1.00	5800-681-RC
1,000	2.30	0.200	M8301-ND	1.33	1.00	5800-102-RC
1,200	2.65	0.200	M8302-ND	1.33	1.00	5800-122-RC
1,500	3.45	0.158	M8303-ND	1.33	1.00	5800-152-RC
1,800	4.03	0.158	M8304-ND	1.33	1.00	5800-182-RC
2,200	4.48	0.158	M8305-ND	1.33	1.00	5800-222-RC
2,700	5.90	0.125	M8306-ND	1.33	1.00	5800-272-RC
3,300	6.56	0.125	M8307-ND	1.33	1.00	5800-332-RC
3,900	8.63	0.100	M8308-ND	1.33	1.00	5800-392-RC
4,700	10.5	0.100	M8309-ND	1.33	1.00	5800-472-RC
5,600	13.9	0.082	M8310-ND	1.33	1.00	5800-562-RC
6,800	16.3	0.082	M8311-ND	1.33	1.00	5800-682-RC
8,200	20.8	0.065	M8312-ND	1.33	1.00	5800-822-RC
10,000	26.4	0.050	M8313-ND	1.33	1.00	5800-103-RC
15,000	42.5	0.039	M8314-ND	1.33	1.00	5800-153-RC
18,000	48.3	0.039	M8315-ND	1.33	1.00	5800-183-RC
5900 Series						
3.9	.007	4.0	M8316-ND	2.37	1.69	5900-3R9-RC
4.7	.008	4.0	M8317-ND	2.37	1.69	5900-4R7-RC
10	.017	4.0	M8318-ND	2.37	1.69	5900-100-RC
22	.026	4.0	M8319-ND	2.37	1.69	5900-220-RC
33	.032	4.0	M8320-ND	2.37	1.69	5900-330-RC
47	.035	4.0	M8321-ND	2.37	1.69	5900-470-RC
68	.047	2.5	M8322-ND	2.37	1.69	5900-680-RC
82	.060	2.0	M8323-ND	2.37	1.69	5900-820-RC
100	.090	1.6	M8324-ND	2.37	1.69	5900-101-RC
150	.129	1.6	M8325-ND	2.37	1.69	5900-151-RC
180	.150	1.6	M8326-ND	2.37	1.69	5900-181-RC
220	.162	1.6	M8327-ND	2.37	1.69	5900-221-RC
330	.212	1.6	M8328-ND	2.37	1.69	5900-331-RC
390	.281	1.6	M8329-ND	2.37	1.69	5900-391-RC
470	.380	1.2	M8330-ND	2.37	1.69	5900-471-RC
680	.548	1.0	M8331-ND	2.37	1.69	5900-681-RC
1,000	.844	0.8	M8332-ND	2.37	1.69	5900-102-RC
2,200	2.00	0.5	M8333-ND	2.37	1.69	5900-222-RC
3,900	2.75	0.4	M8334-ND	2.37	1.69	5900-392-RC
4,700	3.19	0.4	M8335-ND	2.37	1.69	5900-472-RC
10,000	7.30	0.250	M8336-ND	2.03	1.53	5900-103-RC
100,000	89.7	0.065	M8337-ND	2.03	1.53	5900-104-RC

Epoxy Conformal Coated Inductors

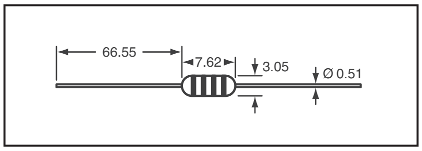

L± 10% µH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each		J.W. Miller Part No.
					1	10	
Phenolic Core							
.10	40	25.0	1100	M8159-ND	2.75	2.20	8230-94-RC
.18	35	25.0	1010	M8160-ND	2.75	2.20	8230-02-RC
.22	33	25.0	935	M8161-ND	2.75	2.20	8230-04-RC
.27	33	25.0	875	M8162-ND	2.75	2.20	8230-06-RC
.33	30	25.0	780	M8163-ND	2.75	2.20	8230-08-RC
.39	30	25.0	640	M8164-ND	2.75	2.20	8230-10-RC
.47	30	25.0	590	M8165-ND	2.75	2.20	8230-12-RC
.56	30	25.0	495	M8166-ND	2.75	2.20	8230-14-RC
.68	28	25.0	450	M8167-ND	2.75	2.20	8230-16-RC
.82	28	25.0	380	M8168-ND	2.75	2.20	8230-18-RC
1.00	25	25.0	350	M8169-ND	2.75	2.20	8230-20-RC
Iron Core							
1.20	25	7.9	825	M8170-ND	2.20	1.65	8230-22-RC
1.50	28	7.9	745	M8171-ND	2.20	1.65	8230-24-RC
1.80	30	7.9	640	M8172-ND	2.20	1.65	8230-26-RC
2.20	30	7.9	550	M8173-ND	2.20	1.65	8230-28-RC
2.70	37	7.9	495	M8174-ND	2.20	1.65	8230-30-RC
3.30	45	7.9	380	M8175-ND	2.20	1.65	8230-32-RC
3.90	45	7.9	350	M8176-ND	2.20	1.65	8230-34-RC
4.70	45	7.9	320	M8177-ND	2.20	1.65	8230-36-RC
5.60	50	7.9	260	M8178-ND	2.20	1.65	8230-38-RC
6.80	50	7.9	245	M8179-ND	2.20	1.65	8230-40-RC
8.20	55	7.9	210	M8180-ND	2.20	1.65	8230-42-RC
10.00	55	7.9	180	M8181-ND	2.20	1.65	8230-44-RC
12.00	45	2.5	210	M8182-ND	2.20	1.65	8230-46-RC
15.00	45	2.5	205	M8183-ND	2.20	1.65	8230-48-RC
18.00	50	2.5	195	M8184-ND	2.20	1.65	8230-50-RC
22.00	50	2.5	190	M8185-ND	2.20	1.65	8230-52-RC
27.00	50	2.5	185	M8186-ND	2.20	1.65	8230-54-RC
Ferrite Core							
33.00	45	2.5	187	M8187-ND	2.72	2.04	8230-56-RC
39.00	45	2.5	180	M8188-ND	2.72	2.04	8230-58-RC
47.00	45	2.5	165	M8189-ND	2.72	2.04	8230-60-RC
56.00	45	2.5	145	M8190-ND	2.72	2.04	8230-62-RC
68.00	50	2.5	135	M8191-ND	2.72	2.04	8230-64-RC
82.00	50	2.5	130	M8192-ND	2.72	2.04	8230-66-RC
100.00	50	2.5	125	M8193-ND	2.72	2.04	8230-68-RC
120.00	30	.79	97	M8194-ND	2.72	2.04	8230-70-RC
150.00	30	.79	85	M8195-ND	2.72	2.04	8230-72-RC
180.00	30	.79	79	M8196-ND	2.72	2.04	8230-74-RC
220.00	30	.79	73	M8197-ND	2.72	2.04	8230-76-RC
270.00	30	.79	65	M8198-ND	2.72	2.04	8230-78-RC
330.00	30	.79	62	M8199-ND	2.72	2.04	8230-80-RC
390.00	30	.79	55	M8200-ND	2.72	2.04	8230-82-RC
470.00	30	.79	50	M8201-ND	2.72	2.04	8230-84-RC
560.00	30	.79	48	M8202-ND	2.72	2.04	8230-86-RC
680.00	30	.79	42	M8203-ND	2.72	2.04	8230-88-RC
820.00	30	.79	40	M8204-ND	2.72	2.04	8230-90-RC
1,000.00	30	.79	38	M8205-ND	2.72	2.04	8230-92-RC

Epoxy Conformal Coated Inductors

Specifications: • **Operating Temperature:** -55°C ~ 105°C • **Working Voltage:** 250VDC maximum • **Material:** Coating-Epoxy Leads-Tinned Copper • **Core Material:** Ferrite

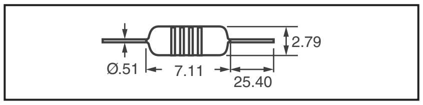

L± 20% (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	Digi-Key Part No.	Price Each		J.W. Miller Part No.
					1	10	
.10	40	25.0	500	M10147-ND	.30	.24	78FR10M-RC
.22*	40	25.0	1025	M10148-ND	.30	.24	78FR22K-RC
1.0	40	25.0	385	M10137-ND	.30	.24	78F1R0K-RC
2.2	50	7.9	395	M10140-ND	.30	.24	78F2R2K-RC
4.7	45	7.9	230	M10143-ND	.30	.24	78F4R7J-RC
8.2	40	7.9	155	M10146-ND	.30	.24	78F8R2J-RC
10	40	7.9	130	M10135-ND	.30	.24	78F100J-RC
22	50	2.5	140	M10138-ND	.30	.24	78F220J-RC
47	60	2.5	167	M10141-ND	.30	.24	78F470J-RC
68	60	2.5	137	M10144-ND	.30	.24	78F680J-RC
82	60	2.5	132	M10145-ND	.30	.24	78F820J-RC
100	60	2.5	125	M10136-ND	.30	.24	78F101J-RC
220	60	0.79	76	M10139-ND	.30	.24	78F221J-RC
470	60	0.79	53	M10142-ND	.30	.24	78F471J-RC
560†	60	0.79	85	M8155-ND	.30	.24	78F561J-RC
680†	60	0.79	68	M8156-ND	.30	.24	78F681J-RC
1000†	60	0.79	60	M8158-ND	.30	.24	78F102J-RC

* Rated at L ±10% µH † Rated at L ±5% µH

Wide-Band Chokes

Fig. 1

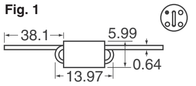

Fig. 2

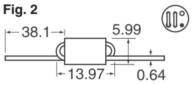

Fig. 3

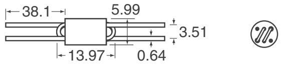

Fig.	No. of Turns	Min. Z (Ω)	Freq. (MHz)	Digi-Key Part No.	Price Each		J.W.Miller Part No.
					1	10	
1	1 1/2	225	10	M8693-ND	.85	.68	FB20009-3B-RC
		175	10	M8696-ND	.85	.68	FB20019-4B-RC
2	2 1/2	460	10	M8694-ND	.85	.68	FB20010-3B-RC
		30	10	M8697-ND	.85	.68	FB20020-4B-RC
3	2 x 1 1/2	215	10	M8695-ND	.85	.68	FB20011-3B-RC
		175	10	M8698-ND	.85	.68	FB20021-4B-RC

Ferrite Beads

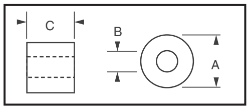

The addition of a Ferrite Bead to a piece of wire causes the impedance of the lead to increase and acts like a small RF choke at high frequencies.
It is possible to dissipate high frequency parasitic signals and attenuate undesirable frequencies that travel on DC circuits by the use of beads.

Frequency Range (MHz)	Dimensions (mm)			Digi-Key Part No.	Pricing		J.W.Miller Part No.
	A	B	C		1	10	
0 ~ 40	1.32	.69	2.16	M8699-ND	.25	2.00	FB73-085-RC
40 ~ 200	3.12	1.02	5.61	M8700-ND	.18	1.40	FB43-226-RC
0 ~ 40	3.18	1.02	5.61	M8701-ND	.25	2.00	FB73-226-RC
40 ~ 200	3.18	1.02	2.87	M8702-ND	.18	1.40	FB43-110-RC
200+	3.18	1.02	2.87	M8703-ND	.18	1.40	FB64-110-RC
0 ~ 40	3.12	1.02	2.87	M8704-ND	.25	2.00	FB73-110-RC
40 ~ 200	4.70	1.27	10.46	M8705-ND	.25	2.00	FB43-422-RC
0 ~ 40	4.70	1.27	10.46	M8706-ND	.30	2.40	FB73-422-RC
40 ~ 200	7.14	2.13	7.16	M8707-ND	.25	2.00	FB43-287-RC
0 ~ 40	7.14	2.13	7.16	M8708-ND	.25	2.00	FB73-287-RC

EMI Filters (For Electromagnetic Interference)

Applications: • Communication equipment, cordless phones, automotive phones • Digital audio and video equipment • Electronic automotive equipment such as engine controls, panels and audio systems • Electronic musical instruments and other digital devices **Specifications:** • Rated Current: 5A • Rated Voltage: 50VDC • DCR: 0.05Ω Maximum • Insulation Resistance: 10GΩ Minimum @ 50VDC • HI-Pot: 125VDC • Operating Temperature: -25°C ~ 85°C

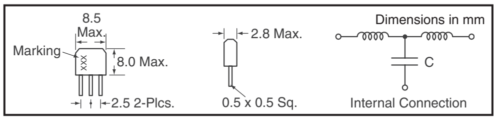

Capacitance ±20% (pF)	25dB AH. Frequency (MHz)	15dB AH. Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Box Pricing 2,000	J.W.Miller Part No.
				10	100			
22	800	220 ~ 800	M9936CT-ND	.48	.43	M9936TB-ND	142.50/M	EMI220T-RC
47	550 ~ 700	350 ~ 800	M9938CT-ND	.48	.43	M9938TB-ND	142.50/M	EMI470T-RC
100	350 ~ 500	200 ~ 800	M9941CT-ND	.48	.43	M9941TB-ND	142.50/M	EMI101T-RC
220	200 ~ 350	100 ~ 800	M9939CT-ND	.48	.43	M9939TB-ND	142.50/M	EMI221T-RC
270	200 ~ 300	80 ~ 800	M9940CT-ND	.48	.43	M9940TB-ND	142.50/M	EMI271T-RC
470	120 ~ 300	50 ~ 800	M9937CT-ND	.48	.43	M9937TB-ND	142.50/M	EMI471T-RC
1,000	70 ~ 200	30 ~ 800	M9934CT-ND	.48	.43	M9934TB-ND	142.50/M	EMI102T-RC
2,200	45 ~ 200	20 ~ 800	M9942CT-ND	.48	.43	M9942TB-ND	142.50/M	EMI222T-RC
10,000	15 ~ 200	6 ~ 800	M9935CT-ND†	.48	.43	M9935TB-ND†	142.50/M	EMI103T-RC

† Capacitance Tolerance: -20%, +80%

ABRACON CORPORATION
The Power of Linking Together

NEW! SMD Thin Film Chip Inductors

Features:
- A photo-lithographic single layer ceramic chip • High SRF; Excellent Q • Superior Temperature Stability • Tight Tolerance of ±1% or ±0.1nH • Self Resonant Frequency Control within 10% • Stable Inductance in High Frequency Circuit • Highly Stable Design for Critical Needs

Applications:
- Cellular Telephones • Pagers and GPS Products • Wireless LAN • Bluetooth Module • VCO, TCXO Circuit and RF Transceiver Modules • Communication Appliances

Specifications:
- Operating Temperature: -25°C ~ 85°C • Storage Temperature: 25 ±3°C; Humidity <80%RH

Series	Dimensions (mm)			
	A	B	C	D
0201	0.60 ±0.05	0.30 ±0.05	0.23 ±0.05	0.15 ±0.05
0402	1.0 ±0.05	0.5 ±0.05	0.32 ±0.05	0.2 ±0.10
0603	1.6 ±0.10	0.8 ±0.10	0.45 ±0.10	0.3 ±0.20

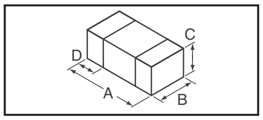

Inductance (nH)	Resistance DC/Max. (Ω)	Current DC/Max. (mA)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel†		Abracon Part No.
				1	10	Qty.	Pricing	
ATFC-0201 Series								
1.0	0.3	300	535-10314-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N0-BT
1.1	0.35	300	535-10315-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N1-BT
1.2	0.35	250	535-10316-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N2-BT
1.3	0.45	250	535-10317-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N3-BT
1.4	0.45	250	535-10318-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N4-BT
1.5	0.45	200	535-10319-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N5-BT
1.6	0.55	200	535-10320-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N6-BT
1.7	0.55	200	535-10321-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N7-BT
1.8	0.55	200	535-10322-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N8-BT
1.9	0.55	200	535-10323-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-1N9-BT
2.0	0.7	200	535-10324-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N0-BT
2.1	0.7	200	535-10325-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N1-BT
2.2	0.7	150	535-10326-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N2-BT
2.3	0.8	150	535-10327-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N3-BT
2.4	0.8	150	535-10328-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N4-BT
2.5	0.8	150	535-10329-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N5-BT
2.6	0.8	150	535-10330-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N6-BT
2.7	0.8	150	535-10331-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N7-BT
2.8	1.0	150	535-10332-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N8-BT
2.9	1.0	150	535-10333-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-2N9-BT
3.0	1.0	150	535-10334-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N0-BT
3.1	1.0	150	535-10335-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N1-BT
3.2	1.0	150	535-10336-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N2-BT
3.3	1.0	150	535-10337-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N3-BT
3.4	1.2	150	535-10338-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N4-BT
3.5	1.2	150	535-10339-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N5-BT
3.6	1.2	150	535-10340-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N6-BT
3.7	1.2	150	535-10341-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N7-BT
3.9	1.2	150	535-10342-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-3N9-BT
4.7	1.4	130	535-10343-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-4N7-BT
5.6	1.8	130	535-10344-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-5N6-GT
6.8	2.3	110	535-10345-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-6N8-GT
8.2	3.0	110	535-10346-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-8N2-GT
10	3.5	80	535-10347-1-ND	.09	.81	10,000	31.25/M	ATFC-0201-10N-GT
ATFC-0402 Series								
0.2	0.1	800	535-10348-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-0N2-BT
0.4	0.1	800	535-10349-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-0N4-BT
0.8	0.15	700	535-10350-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-0N8-BT
1.0	0.15	700	535-10351-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N0-BT
1.1	0.15	700	535-10352-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N1-BT
1.2	0.15	700	535-10353-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N2-BT
1.3	0.25	700	535-10354-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N3-BT
1.4	0.25	700	535-10355-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N4-BT
1.5	0.25	700	535-10356-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N5-BT
1.6	0.25	560	535-10357-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N6-BT
1.7	0.25	560	535-10358-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N7-BT
1.8	0.25	560	535-10359-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N8-BT
1.9	0.35	560	535-10360-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-1N9-BT
2.0	0.35	560	535-10361-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N0-BT
2.1	0.35	440	535-10362-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N1-BT
2.2	0.35	440	535-10363-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N2-BT
2.3	0.35	440	535-10364-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N3-BT
2.4	0.35	440	535-10365-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N4-BT
2.5	0.35	440	535-10366-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N5-BT
2.6	0.35	440	535-10367-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N6-BT
2.7	0.35	440	535-10368-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N7-BT
2.8	0.45	380	535-10369-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N8-BT
2.9	0.45	380	535-10370-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-2N9-BT
3.0	0.45	380	535-10371-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N0-BT
3.1	0.45	380	535-10372-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N1-BT
3.2	0.45	380	535-10373-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N2-BT
3.3	0.45	380	535-10374-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N3-BT
3.4	0.55	380	535-10375-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N4-BT
3.5	0.55	380	535-10376-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N5-BT
3.6	0.55	380	535-10377-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N6-BT
3.7	0.55	340	535-10378-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N7-BT
3.8	0.55	340	535-10379-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N8-BT
3.9	0.55	340	535-10380-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-3N9-BT
4.7	0.65	320	535-10381-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-4N7-BT
5.6	0.85	280	535-10382-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-5N6-BT
5.9	0.85	280	535-10383-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-5N9-BT
6.8	1.05	260	535-10384-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-6N8-BT
7.2	1.05	260	535-10385-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-7N2-BT
8.0	1.25	220	535-10386-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-8N0-BT
8.2	1.25	220	535-10387-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-8N2-BT
9.1	1.25	220	535-10388-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-9N1-BT
10	1.35	200	535-10389-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-10N-GT
12	1.55	180	535-10390-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-12N-GT
13.8	1.75	180	535-10391-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-13N8-GT
15	1.75	130	535-10392-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-15N-GT
17	1.95	100	535-10393-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-17N-GT
18	2.15	100	535-10394-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-18N-GT
20.8	2.55	90	535-10395-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-20N8-GT
22	2.65	90	535-10396-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-22N-GT
27	3.25	75	535-10397-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-27N-GT
33	4.5	75	535-10398-1-ND	.08	.65	10,000	25.00/M	ATFC-0402-33N-JT
ATFC-0603 Series								
1.0	0.35	800	535-10399-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-1N0-BT
1.2	0.35	800	535-10400-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-1N2-BT
1.5	0.35	800	535-10401-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-1N5-BT
1.8	0.35	300	535-10402-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-1N8-BT
2.2	0.35	300	535-10403-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-2N2-BT
2.7	0.45	300	535-10404-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-2N7-BT
3.3	0.45	300	535-10405-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-3N3-BT
3.9	0.45	300	535-10406-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-3N9-BT
4.7	0.55	300	535-10407-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-4N7-BT
5.6	0.65	300	535-10408-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-5N6-BT
6.8	0.75	300	535-10409-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-6N8-BT
8.2	0.95	300	535-10410-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-8N2-BT
10	0.95	300	535-10411-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-10N-FT
12	1.05	300	535-10412-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-12N-FT
15	1.35	300	535-10413-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-15N-FT
18	1.65	300	535-10414-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-18N-FT
22	1.95	250	535-10415-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-22N-FT
27	2.35	250	535-10416-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-27N-FT
33	2.75	250	535-10417-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-33N-FT
39	3.0	200	535-10418-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-39N-FT
47	3.0	200	535-10419-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-47N-FT
56	5.0	150	535-10420-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-56N-FT
68	5.0	150	535-10421-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-68N-FT
100	7.5	100	535-10422-1-ND	.17	1.46	5,000	58.50/M	ATFC-0603-R10-GT

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! SMD Power Inductors

Features:
- Magnetic shielding • Very small footprint • Flat-top for pick and place • Increased size selection guide

Applications:
- Ideal for Palm-Top and Laptop DC-DC converters • PDA's flash memory • Step-up, step-down converters

Specifications:
- Operating Temperature: -40°C ~ 125°C

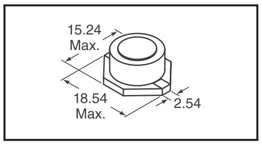

L (µH) ±20%	DCR Max. (Ω)	IDC Max. (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing† 250	Abracon Part No.
				1	10	50		
ASPI-S Series								
10	0.04	3.90	535-10578-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-100M-T
15	0.05	3.40	535-10579-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-150M-T
22	0.06	3.10	535-10580-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-220M-T
33	0.08	2.80	535-10581-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-330M-T
47	0.10	2.40	535-10582-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-470M-T
68	0.14	2.00	535-10583-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-680M-T
100	0.21	1.70	535-10584-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-101M-T
150	0.30	1.30	535-10585-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-151M-T
220	0.47	1.10	535-10586-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-221M-T
330	0.78	0.86	535-10587-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-331M-T
470	1.08	0.73	535-10588-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-471M-T
680	1.40	0.64	535-10589-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-681M-T
1,000	2.01	0.53	535-10590-1-ND	1.76	1.53	1.34	235.00	ASPI-1306S-102M-T

† For Tape and Reel part number, change 1-ND to 2-ND.

ABRACON CORPORATION
The Power of Linking Together

NEW! SMD Ceramic Wire-Wound Chip Inductors

Features: • Ceramic or Ferrite construction assures the utmost thermal stability and high SRF • Exceptionally high Q compared to non-wirewound inductors, especially at high frequencies

Applications: • Widely applied in VCO, SAW circuit for GSM and CDMA communication • Used in hard disk, notebook computers and other electronic equipment

Specifications: • Operating Temperature: *AISC-0402 and AISC-0603*: -25°C ~ 85°C; *AISC-0805(F) and AISC-1008(F)*: -25°C ~ 125°C • Storage Temperature: -25°C ~ 85°C; 70% RH Max.

Series	Dimensions (mm) A	B	C
0402	1.19	0.64	0.66
0603	1.80	1.12	1.02
0805(F)	2.29	1.68	1.55
1008(F)	2.92	2.79	2.29

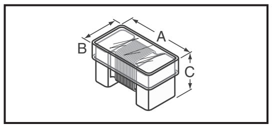

L (nH) @250MHz	Q Min.	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel Pricing† 2,000	Abracon Part No.
					1	10		
AISC-0402 Series								
1.0	13 @250MHz	0.045	1,360	535-10423-1-ND	.25	2.15	92.40/M	AISC-0402-1N0J-T
2.0	16 @250MHz	0.070	1,040	535-10424-1-ND	.25	2.15	92.40/M	AISC-0402-2N0J-T
2.2	18 @250MHz	0.070	960	535-10425-1-ND	.25	2.15	92.40/M	AISC-0402-2N2J-T
3.3	20 @250MHz	0.066	840	535-10426-1-ND	.25	2.15	92.40/M	AISC-0402-3N3J-T
3.6	20 @250MHz	0.066	840	535-10427-1-ND	.25	2.15	92.40/M	AISC-0402-3N6J-T
3.9	20 @250MHz	0.066	840	535-10428-1-ND	.25	2.15	92.40/M	AISC-0402-3N9J-T
4.3	20 @250MHz	0.091	700	535-10429-1-ND	.25	2.15	92.40/M	AISC-0402-4N3J-T
4.7	20 @250MHz	0.130	700	535-10430-1-ND	.25	2.15	92.40/M	AISC-0402-4N7J-T
5.1	23 @250MHz	0.083	800	535-10431-1-ND	.25	2.15	92.40/M	AISC-0402-5N1J-T
5.6	23 @250MHz	0.083	760	535-10432-1-ND	.25	2.15	92.40/M	AISC-0402-5N6J-T
6.2	23 @250MHz	0.083	760	535-10433-1-ND	.25	2.15	92.40/M	AISC-0402-6N2J-T
7.5	25 @250MHz	0.100	680	535-10434-1-ND	.25	2.15	92.40/M	AISC-0402-7N5J-T
8.2	25 @250MHz	0.100	680	535-10435-1-ND	.25	2.15	92.40/M	AISC-0402-8N2J-T
9.0	25 @250MHz	0.100	680	535-10436-1-ND	.25	2.15	92.40/M	AISC-0402-9N0J-T
10	21 @250MHz	0.200	480	535-10437-1-ND	.25	2.15	92.40/M	AISC-0402-10NJ-T
11	26 @250MHz	0.120	640	535-10438-1-ND	.25	2.15	92.40/M	AISC-0402-11NJ-T
12	26 @250MHz	0.120	640	535-10439-1-ND	.25	2.15	92.40/M	AISC-0402-12NJ-T
15	26 @250MHz	0.170	560	535-10440-1-ND	.25	2.15	92.40/M	AISC-0402-15NJ-T
19	26 @250MHz	0.200	480	535-10441-1-ND	.25	2.15	92.40/M	AISC-0402-19NJ-T
23	26 @250MHz	0.250	400	535-10442-1-ND	.25	2.15	92.40/M	AISC-0402-23NJ-T
27	26 @250MHz	0.300	400	535-10443-1-ND	.25	2.15	92.40/M	AISC-0402-27NJ-T
36	26 @250MHz	0.400	320	535-10444-1-ND	.25	2.15	92.40/M	AISC-0402-36NJ-T
40	26 @250MHz	0.550	200	535-10445-1-ND	.25	2.15	92.40/M	AISC-0402-40NJ-T
47	20 @250MHz	0.750	150	535-10446-1-ND	.25	2.15	92.40/M	AISC-0402-47NJ-T
AISC-0603 Series								
1.8	16 @250MHz	0.045	700	535-10447-1-ND	.24	2.05	88.20/M	AISC-0603-R0018J-T
3.3	30 @250MHz	0.035	700	535-10448-1-ND	.24	2.05	88.20/M	AISC-0603-R0033J-T
3.9	20 @250MHz	0.080	700	535-10449-1-ND	.24	2.05	88.20/M	AISC-0603-R0039J-T
4.3	22 @250MHz	0.063	700	535-10450-1-ND	.24	2.05	88.20/M	AISC-0603-R0043J-T
4.7	10 @250MHz	0.200	700	535-10451-1-ND	.24	2.05	88.20/M	AISC-0603-R0047J-T
5.1	18 @250MHz	0.180	700	535-10452-1-ND	.24	2.05	88.20/M	AISC-0603-R0051J-T
5.6	25 @250MHz	0.100	700	535-10453-1-ND	.24	2.05	88.20/M	AISC-0603-R0056J-T
6.2	25 @250MHz	0.110	700	535-10454-1-ND	.24	2.05	88.20/M	AISC-0603-R0062J-T
6.8	25 @250MHz	0.110	700	535-10455-1-ND	.24	2.05	88.20/M	AISC-0603-R0068J-T
7.5	30 @250MHz	0.120	700	535-10456-1-ND	.24	2.05	88.20/M	AISC-0603-R0075J-T
8.2	31 @250MHz	0.120	700	535-10457-1-ND	.24	2.05	88.20/M	AISC-0603-R0082J-T
8.7	28 @250MHz	0.109	700	535-10458-1-ND	.24	2.05	88.20/M	AISC-0603-R0087J-T
9.5	28 @250MHz	0.135	700	535-10459-1-ND	.24	2.05	88.20/M	AISC-0603-R0095J-T
10	30 @250MHz	0.130	700	535-10460-1-ND	.24	2.05	88.20/M	AISC-0603-R010J-T
11	30 @250MHz	0.086	700	535-10461-1-ND	.24	2.05	88.20/M	AISC-0603-R011J-T
12	30 @250MHz	0.130	700	535-10462-1-ND	.24	2.05	88.20/M	AISC-0603-R012J-T
15	30 @250MHz	0.170	700	535-10463-1-ND	.24	2.05	88.20/M	AISC-0603-R015J-T
18	30 @250MHz	0.170	700	535-10464-1-ND	.24	2.05	88.20/M	AISC-0603-R018J-T
22	35 @250MHz	0.190	700	535-10465-1-ND	.24	2.05	88.20/M	AISC-0603-R022J-T
24	35 @250MHz	0.220	600	535-10466-1-ND	.24	2.05	88.20/M	AISC-0603-R024J-T
27	35 @250MHz	0.220	600	535-10467-1-ND	.24	2.05	88.20/M	AISC-0603-R027J-T
32.5	35 @250MHz	0.220	600	535-10468-1-ND	.24	2.05	88.20/M	AISC-0603-R033J-T
37	35 @250MHz	0.250	600	535-10469-1-ND	.24	2.05	88.20/M	AISC-0603-R037J-T
39	35 @250MHz	0.250	600	535-10470-1-ND	.24	2.05	88.20/M	AISC-0603-R039J-T
47§	35 @250MHz	0.280	600	535-10471-1-ND	.24	2.05	88.20/M	AISC-0603-R047J-T
51§	38 @250MHz	0.280	700	535-10472-1-ND	.24	2.05	88.20/M	AISC-0603-R051J-T
56§	35 @250MHz	0.310	600	535-10473-1-ND	.24	2.05	88.20/M	AISC-0603-R056J-T
68§	35 @250MHz	0.340	600	535-10474-1-ND	.24	2.05	88.20/M	AISC-0603-R068J-T
72◊	35 @250MHz	0.490	400	535-10475-1-ND	.24	2.05	88.20/M	AISC-0603-R072J-T
82◊	35 @250MHz	0.540	400	535-10476-1-ND	.24	2.05	88.20/M	AISC-0603-R082J-T
100◊	35 @250MHz	0.710	400	535-10477-1-ND	.24	2.05	88.20/M	AISC-0603-R10J-T
110◊	35 @250MHz	0.750	300	535-10478-1-ND	.24	2.05	88.20/M	AISC-0603-R11J-T
120◊	35 @250MHz	0.790	300	535-10479-1-ND	.24	2.05	88.20/M	AISC-0603-R12J-T
150◊	28 @150MHz	0.920	280	535-10480-1-ND	.24	2.05	88.20/M	AISC-0603-R15J-T
180▲	25 @100MHz	1.25	240	535-10481-1-ND	.24	2.05	88.20/M	AISC-0603-R18J-T
220▲	25 @100MHz	1.50	200	535-10482-1-ND	.24	2.05	88.20/M	AISC-0603-R22J-T
270▲	25 @100MHz	1.80	170	535-10483-1-ND	.24	2.05	88.20/M	AISC-0603-R27J-T
330▲	24 @100MHz	2.00	150	535-10484-1-ND	.24	2.05	88.20/M	AISC-0603-R33J-T
390▲	23 @100MHz	2.90	120	535-10485-1-ND	.24	2.05	88.20/M	AISC-0603-R39J-T
AISC-0805(F) Series								
2.2	40 @1.5GHz	0.10	600	535-10486-1-ND	.24	2.11	91.00/M	AISC-0805-R0022J-T
3.3	30 @1.5GHz	0.08	600	535-10487-1-ND	.24	2.11	91.00/M	AISC-0805-R0033J-T
6.8	50 @1.0GHz	0.11	600	535-10488-1-ND	.24	2.11	91.00/M	AISC-0805-R0068J-T
8.2	50 @1.0GHz	0.19	600	535-10489-1-ND	.24	2.11	91.00/M	AISC-0805-R0082J-T
12	50 @500MHz	0.15	600	535-10490-1-ND	.24	2.11	91.00/M	AISC-0805-R012J-T
15	50 @500MHz	0.17	600	535-10491-1-ND	.24	2.11	91.00/M	AISC-0805-R015J-T
18	50 @500MHz	0.2	600	535-10492-1-ND	.24	2.11	91.00/M	AISC-0805-R018J-T
22	55 @500MHz	0.22	500	535-10493-1-ND	.24	2.11	91.00/M	AISC-0805-R022J-T
27	60 @500MHz	0.25	500	535-10494-1-ND	.24	2.11	91.00/M	AISC-0805-R027J-T
33	60 @500MHz	0.27	500	535-10495-1-ND	.24	2.11	91.00/M	AISC-0805-R033J-T
39	60 @500MHz	0.29	500	535-10496-1-ND	.24	2.11	91.00/M	AISC-0805-R039J-T
47§	60 @500MHz	0.31	500	535-10497-1-ND	.24	2.11	91.00/M	AISC-0805-R047J-T
56§	60 @500MHz	0.32	500	535-10498-1-ND	.24	2.11	91.00/M	AISC-0805-R056J-T
68§	60 @500MHz	0.38	500	535-10499-1-ND	.24	2.11	91.00/M	AISC-0805-R068J-T
82◊	60 @500MHz	0.42	400	535-10500-1-ND	.24	2.11	91.00/M	AISC-0805-R082J-T
100◊	60 @500MHz	0.46	400	535-10501-1-ND	.24	2.11	91.00/M	AISC-0805-R10J-T
120◊	50 @250MHz	0.51	400	535-10502-1-ND	.24	2.11	91.00/M	AISC-0805-R12J-T
150▲	50 @250MHz	0.56	400	535-10503-1-ND	.24	2.11	91.00/M	AISC-0805-R15J-T
180▲	50 @250MHz	0.64	400	535-10504-1-ND	.24	2.11	91.00/M	AISC-0805-R18J-T
220▲	45 @250MHz	0.7	400	535-10505-1-ND	.24	2.11	91.00/M	AISC-0805-R22J-T
270▲	40 @250MHz	1.0	350	535-10506-1-ND	.24	2.11	91.00/M	AISC-0805-R27J-T
330▲	40 @250MHz	1.4	310	535-10507-1-ND	.24	2.11	91.00/M	AISC-0805-R33J-T
390▲	35 @250MHz	1.5	290	535-10508-1-ND	.24	2.11	91.00/M	AISC-0805-R39J-T
470Δ	33 @100MHz	1.72	250	535-10509-1-ND	.24	2.11	91.00/M	AISC-0805-R47J-T
560★	23 @50MHz	1.9	230	535-10510-1-ND	.24	2.11	91.00/M	AISC-0805-R56J-T
680★	23 @50MHz	2.05	190	535-10511-1-ND	.24	2.11	91.00/M	AISC-0805-R68J-T
820★	23 @50MHz	2.3	180	535-10512-1-ND	.24	2.11	91.00/M	AISC-0805-R82J-T
1,000★	20 @50MHz	2.5	150	535-10513-1-ND	.24	2.11	91.00/M	AISC-0805-1R0J-T
1,000▼	15 @7.9MHz	1.20	245	535-10514-1-ND‡	.24	2.11	91.00/M	AISC-0805F-1R0J-T
1,500▼	15 @7.9MHz	1.45	225	535-10515-1-ND‡	.24	2.11	91.00/M	AISC-0805F-1R5J-T
2,200▼	15 @7.9MHz	1.80	200	535-10516-1-ND‡	.24	2.11	91.00/M	AISC-0805F-2R2J-T
3,300▼	15 @7.9MHz	2.30	175	535-10517-1-ND‡	.24	2.11	91.00/M	AISC-0805F-3R3J-T
4,700▼	15 @7.9MHz	2.80	140	535-10518-1-ND‡	.24	2.11	91.00/M	AISC-0805F-4R7J-T
6,800▼	15 @7.9MHz	3.40	115	535-10519-1-ND‡	.24	2.11	91.00/M	AISC-0805F-6R8J-T
10,000††	10 @2.5MHz	4.70	98	535-10520-1-ND‡	.24	2.11	91.00/M	AISC-0805F-100J-T
15,000††	10 @2.5MHz	6.50	80	535-10521-1-ND‡	.24	2.11	91.00/M	AISC-0805F-150J-T
22,000††	10 @2.5MHz	8.00	68	535-10522-1-ND‡	.24	2.11	91.00/M	AISC-0805F-220J-T
33,000††	10 @2.5MHz	10.70	60	535-10523-1-ND‡	.24	2.11	91.00/M	AISC-0805F-330J-T
47,000††	10 @2.5MHz	13.80	55	535-10524-1-ND‡	.24	2.11	91.00/M	AISC-0805F-470J-T
68,000††	8 @2.5MHz	17.50	49	535-10525-1-ND‡	.24	2.11	91.00/M	AISC-0805F-680J-T
AISC-1008(F) Series								
4.7Δ	60 @1.5GHz	0.11	1,000	535-10526-1-ND	.26	2.21	95.20/M	AISC-1008-R0047J-T
10Δ	50 @500MHz	0.08	1,000	535-10527-1-ND	.26	2.21	95.20/M	AISC-1008-R010J-T
12Δ	50 @500MHz	0.09	1,000	535-10528-1-ND	.26	2.21	95.20/M	AISC-1008-R012J-T
15Δ	50 @500MHz	0.13	1,000	535-10529-1-ND	.26	2.21	95.20/M	AISC-1008-R015J-T
18Δ	50 @350MHz	0.11	1,000	535-10530-1-ND	.26	2.21	95.20/M	AISC-1008-R018J-T
22Δ	55 @350MHz	0.12	1,000	535-10531-1-ND	.26	2.21	95.20/M	AISC-1008-R022J-T
27Δ	55 @350MHz	0.13	1,000	535-10532-1-ND	.26	2.21	95.20/M	AISC-1008-R027J-T
33Δ	60 @350MHz	0.14	1,000	535-10533-1-ND	.26	2.21	95.20/M	AISC-1008-R033J-T
39Δ	60 @350MHz	0.15	1,000	535-10534-1-ND	.26	2.21	95.20/M	AISC-1008-R039J-T
47Δ	70 @350MHz	0.16	1,000	535-10535-1-ND	.26	2.21	95.20/M	AISC-1008-R047J-T
56Δ	70 @350MHz	0.18	1,000	535-10536-1-ND	.26	2.21	95.20/M	AISC-1008-R056J-T
68Δ	65 @350MHz	0.21	1,000	535-10537-1-ND	.26	2.21	95.20/M	AISC-1008-R068J-T
82Δ	65 @350MHz	0.22	1,000	535-10538-1-ND	.26	2.21	95.20/M	AISC-1008-R082J-T
100★	60 @350MHz	0.56	650	535-10539-1-ND	.26	2.21	95.20/M	AISC-1008-R10J-T
120★	60 @350MHz	0.63	650	535-10540-1-ND	.26	2.21	95.20/M	AISC-1008-R12J-T
150★	45 @100MHz	0.62	580	535-10541-1-ND	.26	2.21	95.20/M	AISC-1008-R15J-T
180★	45 @100MHz	0.70	620	535-10542-1-ND	.26	2.21	95.20/M	AISC-1008-R18J-T
220★	45 @100MHz	0.80	500	535-10543-1-ND	.26	2.21	95.20/M	AISC-1008-R22J-T
270★	45 @100MHz	0.91	500	535-10544-1-ND	.26	2.21	95.20/M	AISC-1008-R27J-T
330★	45 @100MHz	1.05	450	535-10545-1-ND	.26	2.21	95.20/M	AISC-1008-R33J-T
390★	45 @100MHz	1.12	470	535-10546-1-ND	.26	2.21	95.20/M	AISC-1008-R39J-T
470★	45 @100MHz	1.19	470	535-10547-1-ND	.26	2.21	95.20/M	AISC-1008-R47J-T
560★	45 @100MHz	1.33	400	535-10548-1-ND	.26	2.21	95.20/M	AISC-1008-R56J-T
620★	45 @100MHz	1.40	300	535-10549-1-ND	.26	2.21	95.20/M	AISC-1008-R62J-T
680★	45 @100MHz	1.47	400	535-10550-1-ND	.26	2.21	95.20/M	AISC-1008-R68J-T
750★	45 @100MHz	1.54	360	535-10551-1-ND	.26	2.21	95.20/M	AISC-1008-R75J-T
820★	45 @100MHz	1.61	400	535-10552-1-ND	.26	2.21	95.20/M	AISC-1008-R82J-T
910★	40 @50MHz	1.68	380	535-10553-1-ND	.26	2.21	95.20/M	AISC-1008-R91J-T
1,000★	35 @50MHz	1.75	370	535-10554-1-ND	.26	2.21	95.20/M	AISC-1008-1R0J-T
1,200▼	35 @50MHz	2.00	310	535-10555-1-ND	.26	2.21	95.20/M	AISC-1008-1R2J-T
1,500▼	28 @50MHz	2.30	330	535-10556-1-ND	.26	2.21	95.20/M	AISC-1008-1R5J-T
1,800▼	28 @50MHz	2.60	300	535-10557-1-ND	.26	2.21	95.20/M	AISC-1008-1R8J-T
2,200▼	28 @50MHz	2.80	280	535-10558-1-ND	.26	2.21	95.20/M	AISC-1008-2R2J-T
2,700▼	22 @25MHz	3.20	290	535-10559-1-ND	.26	2.21	95.20/M	AISC-1008-2R7J-T
3,300▼	22 @25MHz	3.40	260	535-10560-1-ND	.26	2.21	95.20/M	AISC-1008-3R3J-T
3,900▼	20 @25MHz	3.60	260	535-10561-1-ND	.26	2.21	95.20/M	AISC-1008-3R9J-T
4,700▼	20 @25MHz	4.00	250	535-10562-1-ND	.26	2.21	95.20/M	AISC-1008-4R7J-T
5,600▼	20 @25MHz	5.70	220	535-10563-1-ND	.26	2.21	95.20/M	AISC-1008-5R6J-T
6,800▼	20 @25MHz	7.70	180	535-10564-1-ND	.26	2.21	95.20/M	AISC-1008-6R8J-T
8,200▼	20 @25MHz	10.7	150	535-10565-1-ND	.26	2.21	95.20/M	AISC-1008-8R2J-T
1,200▼	48 @50MHz	0.70	650	535-10566-1-ND‡	.26	2.21	95.20/M	AISC-1008F-1R2J-T
1,500▼	41 @50MHz	0.75	630	535-10567-1-ND‡	.26	2.21	95.20/M	AISC-1008F-1R5J-T
1,800▼	39 @50MHz	0.84	600	535-10568-1-ND‡	.26	2.21	95.20/M	AISC-1008F-1R8J-T
2,200▼	34 @50MHz	1.15	520	535-10569-1-ND‡	.26	2.21	95.20/M	AISC-1008F-2R2J-T
2,700▼	34 @50MHz	1.28	490	535-10570-1-ND‡	.26	2.21	95.20/M	AISC-1008F-2R7J-T
3,300▼	32 @50MHz	1.46	450	535-10571-1-ND‡	.26	2.21	95.20/M	AISC-1008F-3R3J-T
3,900▼	32 @7.9MHz	1.56	420	535-10572-1-ND‡	.26	2.21	95.20/M	AISC-1008F-3R9J-T
4,700▼	31 @7.9MHz	1.68	400	535-10573-1-ND‡	.26	2.21	95.20/M	AISC-1008F-4R7J-T
5,600▼	23 @7.9MHz	1.82	380	535-10574-1-ND‡	.26	2.21	95.20/M	AISC-1008F-5R6J-T
6,800▼	31 @7.9MHz	2.00	360	535-10575-1-ND‡	.26	2.21	95.20/M	AISC-1008F-6R8J-T
8,200▼	23 @7.9MHz	2.65	330	535-10576-1-ND‡	.26	2.21	95.20/M	AISC-1008F-8R2J-T
10,000▼	31 @7.9MHz	2.95	300	535-10577-1-ND‡	.26	2.21	95.20/M	AISC-1008F-100J-T

† For Tape and Reel part number, change 1-ND to 2-ND. § @200MHz ◊ @150MHz ▲ @100MHz Δ @50MHz ★ @25MHz ▼ @7.9MHz †† @2.5MHz ‡ Ferrite construction

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Wide Band Balun Transformers

The Pulse balun transformer offers an excellent insertion loss device in a low cost SMT format. The RF Baluns are ideal for balanced to unbalanced applications and have been designed for applications such as CATV Distribution/Drop Amplifiers, Set Top Boxes and Home Gateways.

Operating Temperature: -40°C ~ 85°C

Fig. 1 ***NEW!***

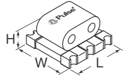

Fig. 2

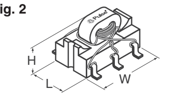

Fig. 3 ***NEW!***

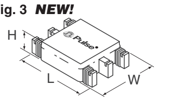

Schematic 1 ***NEW!***

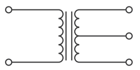

Schematic 2

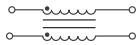

Fig.	Schematic	Impedance Ratio (+ -2%) Primary:Secondary	Turns Ratio (+ -2%) Primary:Secondary	Bandwidth (MHz Typ.) Midband Loss	Insertion Loss (dB Typ.)	Dimensions - Inches			Digi-Key Part No.	Price Each				Pulse Part No.
						L	W	H		1	10	50	100	
1	2	1:1	1:1	10 ~ 1000	0.6	0.202 ±.015	0.204 ±.015	0.14 Max.	553-1498-ND◆ ***NEW!***	1.88	1.22	1.00	.94	CX2024NL
	1	1:2CT†	1:1.414CT†	3 ~ 300	0.8	0.15 ±.015	0.15 +.02/-.015	0.11 ±.015	553-1500-ND◆ ***NEW!***	1.36	.89	.73	.68	CX2045LNL
2	1	1:1CT†	1:1CT†	5 ~ 200	0.3	.157	.272 Max.	.173 Max.	553-1501-ND◆ ***NEW!***	1.77	1.16	.95	.89	CX2147NL
	2	1:1	1:1	2.3 ~ 2700	0.2	0.169 ±.004	0.209 ±.004	0.118 +.018/-.012	553-1051-ND	2.12	1.38	1.13	1.06	CX2156
	2	1:1	1:1	2.3 ~ 2700	0.2	0.169 ±.004	0.209 ±.004	0.118 +.018/-.012	553-1499-ND◆ ***NEW!***	2.12	1.38	1.13	1.06	CX2156NL
3	1	1:4CT†	1:2CT†	5 ~ 165	0.6	.360 Max.	.265 Max.	.098 Max.	553-1502-ND◆ ***NEW!***	2.78	1.81	1.48	1.39	CX2032NL

◆ ***RoHS Compliant*** † CT indicates Center Tap.

3 Terminal EMI Filters

The regulations for electromagnetic noise are becoming tighter in many countries due to its influence on the human body. Under these circumstances, Rohm's EMI filter (low internal resistance, three-terminal, 1.6x0.8mm 0603 size) is a solution. It can cancel the differential-mode noise on the board complying with a large current of 4A in the power supply. Various capacitances are in the lineup that enable noise cancellation at the frequency band.

Specifications:

- Rated Current: 4A • Operating Temperature: -55°C ~ 125°C

Capacitance ±20% (pF)	Rated Voltage (V)	Insulation Resistance (MΩ)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡ Pricing 4,000	Rohm Part No.
				10	100		
1,000	25	1,000	511-1617-1-ND	1.65	14.85	50.00/M	MCF182CN102M04AK
2,200	25	1,000	511-1618-1-ND	1.65	14.85	—	MCF182CN222M04AK
3,300	25	1,000	511-1619-1-ND	1.65	14.85	—	MCF182CN332M04AK
4,700	25	1,000	511-1620-1-ND	1.65	14.85	—	MCF182CN472M04AK
10,000	25	1,000	511-1621-1-ND	1.65	14.85	—	MCF182CN103M04AK
22,000	25	1,000	511-1622-1-ND	1.65	14.85	—	MCF182CN223M04AK
47,000	25	1,000	511-1623-1-ND	1.65	14.85	—	MCF182CN473M04AK
100,000	16	500	511-1626-1-ND	2.65	23.85	—	MCF183CN104M04AK

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Dimensions in mm

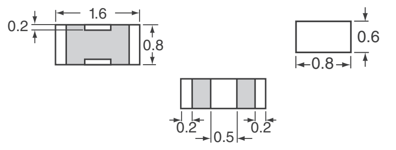

RF Balun Transformers and Directional Couplers HHM Series - Surface Mount

Dimensions in mm

Fig. 1

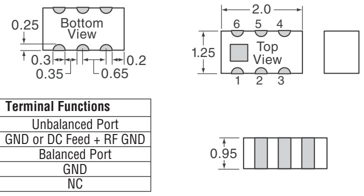

Terminal Functions	
1	Unbalanced Port
2	GND or DC Feed + RF GND
3 ~ 4	Balanced Port
5	GND
6	NC

Fig. 2

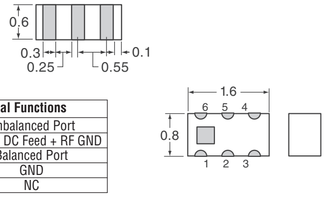

Terminal Functions	
1	Unbalanced Port
2	GND or DC Feed + RF GND
3 ~ 4	Balanced Port
5	GND
6	NC

Fig. 3

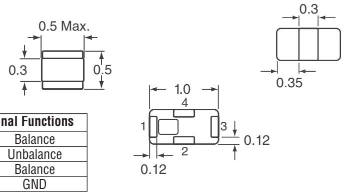

Terminal Functions	
1	Balance
2	Unbalance
3	Balance
4	GND

Fig. 4

Terminal Functions	
1	Input
2,5	GND
3	Output
4	50Ω Load
6	Monitor Output

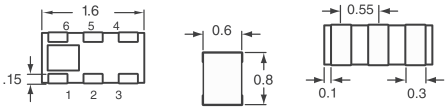

Fig. 5

Terminal Functions			
1	Band 1 Input Port	5	Band 2 Output Port
2	GND	6	GND
3	Band 2 Input Port	7	Band 1 Output Port
4	50Ω Termination	8	Monitor Output Port

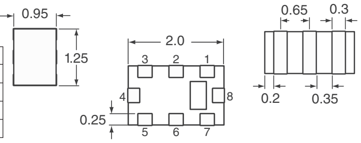

Fig.	Application	Operating Frequency (GHz)	Impedance In/Out (Ω)	Insertion Loss-Max. (dB)	Difference of Phase (Deg.)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
							1	10	100		Qty.	Pricing	
Balun Transformers													
1	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/50	1.2	180 ±10	445-1233-1-ND	1.06	.80	.54	445-1233-2-ND	2,000	329.00/M	HHM1517
	Bluetooth and IEEE802.11b/g	2.3 ~ 2.5	50/50	1.2	180 ±10	445-3983-1-ND	1.56	1.33	1.10	445-3983-2-ND	2,000	469.00/M	HHM1517A2
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/100	1.0	180 ±10	445-1234-1-ND	2.05	1.54	1.03	445-1234-2-ND	2,000	635.19/M	HHM1520
	Bluetooth and IEEE802.11b/g	2.3 ~ 2.5	50/100	1.0	180 ±10	445-3985-1-ND	1.56	1.33	1.10	445-3985-2-ND	2,000	469.00/M	HHM1520A2
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/200	1.0	180 ±10	445-1229-1-ND	2.05	1.54	1.03	445-1229-2-ND	2,000	635.19/M	HHM1521
	EGSM/Tx and Rx	.88 ~ .96	50/50	1.3	180 ±10	445-3987-1-ND	1.56	1.33	1.10	445-3987-2-ND	2,000	469.00/M	HHM1522B1
	EGSM/Tx and Rx	.88 ~ .96	50/100	1.1	180 ±10	445-3960-1-ND	1.79	1.52	1.25	445-3960-2-ND	2,000	536.00/M	HHM1523C1
	EGSM/Tx and Rx	.88 ~ .96	50/150	1.0	180 ±10	445-3989-1-ND	1.56	1.33	1.10	445-3989-2-ND	2,000	469.00/M	HHM1524B1
	Wideband-LAN	4.9 ~ 5.95	50/100	1.0	180 ±10	445-1231-1-ND	2.05	1.54	1.03	445-1231-2-ND	2,000	635.19/M	HHM1570B1
	Wideband-LAN	5.15 ~ 5.875	50/100	1.0	180 ±10	445-1230-1-ND	2.05	1.54	1.03	445-1230-2-ND	2,000	635.19/M	HHM1562B
	Bluetooth	2.3 ~ 2.5	50/75	1.0	180 ±10	445-3249-1-ND	2.25	1.92	1.58	—	—	—	HHM1541E1
	UWB	3.1 ~ 4.9	50/100	1.0	180 ±10	445-3250-1-ND	2.25	1.92	1.58	445-3250-2-ND	2,000	675.00/M	HHM1583B1
	UWB	3.0 ~ 8.0	50/100	1.5	180 ±20	445-3387-1-ND	2.25	1.92	1.58	445-3387-2-ND	2,000	675.00/M	HHM1595A1
	DCS-PCS/Tx and Rx	1.71 ~ 1.99	50/50	1.0	180 ±10	445-3991-1-ND	1.56	1.33	1.10	445-3991-2-ND	2,000	469.00/M	HHM1525
	DCS-PCS/Tx and Rx	1.71 ~ 1.99	50/100	0.8	180 ±9	445-3992-1-ND	1.56	1.33	1.10	445-3992-2-ND	2,000	469.00/M	HHM1526
	DCS-PCS/Tx and Rx	1.71 ~ 1.99	50/150	1.0	180 ±10	445-3984-1-ND	1.56	1.33	1.10	445-3984-2-ND	2,000	469.00/M	HHM1518A3
	DVB-H/ISDB-T	.35 ~ .47	50/100	1.5	180 ±10	445-3994-1-ND	1.56	1.33	1.10	445-3994-2-ND	2,000	469.00/M	HHM1591D1
	AGSM/Tx and Rx	.824 ~ .894	50/50	1.4	180 ±10	445-3986-1-ND	1.56	1.33	1.10	445-3986-2-ND	2,000	469.00/M	HHM1522A7
	AGSM/Tx and Rx	.824 ~ .894	50/100	1.2	180 ±10	445-3988-1-ND	1.56	1.33	1.10	445-3988-2-ND	2,000	469.00/M	HHM1523B3
	AGSM/Tx and Rx	.824 ~ .894	50/150	1.0	180 ±10	445-3990-1-ND	1.56	1.33	1.10	445-3990-2-ND	2,000	469.00/M	HHM1524B4
	AGSM/Tx and Rx	.824 ~ .894	50/200	1.0	180 ±10	445-3993-1-ND	1.56	1.33	1.10	445-3993-2-ND	2,000	469.00/M	HHM1564A4

† Pin Configuration — Pin1 NC, Pin 6 Unbalanced Port. ★ Frequencies listed in same order as Applications.

(Continued)

TDK RF Balun Transformers and Directional Couplers HHM Series - Surface Mount *(Cont.)*

Fig.	Application	Operating Frequency (GHz)	Impedance In/Out (Ω)	Insertion Loss-Max. (dB)	Difference of Phase (Deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
2	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/100	1.2	180 ±10	445-1232-1-ND	2.05	1.54	1.03	445-1232-2-ND	4,000	635.19/M	HHM1711D1
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/50	1.2	180 ±10	445-3246-1-ND	2.25	1.92	1.58	445-3246-2-ND	4,000	653.00/M	HHM-1710D1
	Wideband-LAN	4.9 ~ 5.95	50/100	1.0	180 ±10	445-3247-1-ND	1.25	1.07	.88	445-3247-2-ND	4,000	363.00/M	HHM1732B1
	Wideband-LAN	4.9 ~ 5.95	50/50	1.2	180 ±10	445-3996-1-ND	1.56	1.33	1.10	445-3996-2-ND	4,000	453.00/M	HHM1733B1
	Wideband-LAN	4.9 ~ 5.95	50/200	1.2	180 ±10	445-3248-1-ND	2.25	1.92	1.58	445-3248-2-ND	4,000	653.00/M	HHM1752A2
	WiMAX	2.5 ~ 2.7	50/100	0.8	180 ±10	445-3997-1-ND†	1.56	1.33	1.10	445-3997-2-ND†	4,000	453.00/M	HHM1791A1
	WiMAX	3.3 ~ 3.9	50/100	1.0	180 ±15	445-3995-1-ND	1.56	1.33	1.10	445-3995-2-ND	4,000	453.00/M	HHM1715E1
3	Bluetooth and Windband-LAN	2.4 ~ 2.5	50/100	1.0	180 ±10	445-3998-1-ND	1.56	1.33	1.10	445-3998-2-ND	10,000	438.00/M	HHM1903A1

Fig.	Application	Operating Frequency (GHz)	Coupling Factor (dB)	Insertion Loss (dB) Max. 25°C	Isolation (dB) Minimum	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Directional Couplers													
4	DCS/Tx	1.71 ~ 1.785	-15.0	0.30	25	445-3999-1-ND	1.56	1.33	1.10	445-3999-2-ND	2,000	469.00/M	HHM2204SA1
	AGSM-GSM/Tx	.824 ~ .915	-16.0	0.30	25	445-4000-1-ND	1.56	1.33	1.10	445-4000-2-ND	4,000	469.00/M	HHM2215SA5
	W-CDMA/Tx	1.92 ~ 1.98	-16.0	0.30	25	445-4001-1-ND	1.56	1.33	1.10	445-4001-2-ND	4,000	469.00/M	HHM2220SA3
5	AGSM/DCS/PCS-Tx	.824 ~ .849 / .880 ~ .915 / 1.71 ~ 1.785 / 1.85 ~ 1.91	-20.0	0.30	32	445-4002-1-ND★	1.88	1.60	1.32	445-4002-2-ND★	2,000	563.00/M	HHM2319B2

† Pin Configuration — Pin1 NC, Pin 6 Unbalanced Port. ★ Frequencies listed in same order as Applications.

Multilayer RF Filters and Delay Lines DEA Series - Surface Mount

Dimensions in mm

Fig. 1

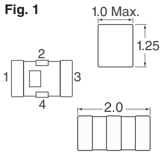

Terminal Functions	
1	GND
2	IN (OUT)
3	GND
4	OUT (IN)

Fig. 2

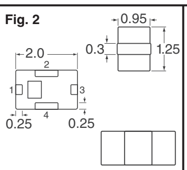

Terminal Functions	
1	IN
2	GND
3	OUT
4	GND

Fig. 3

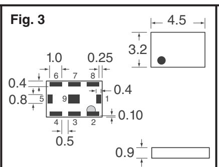

Terminal Functions	
1	I/O
2 ~ 4	GND
5	I/O
6 ~ 9	GND

Fig. 4

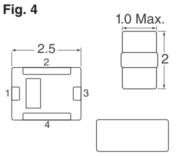

Terminal Functions	
1	IN
2	GND
3	OUT
4	GND

Fig. 5

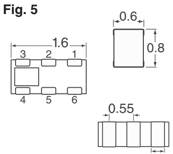

Terminal Functions	
1	GND
2	IN
3, 4, 6	GND
5	OUT

Fig. 6

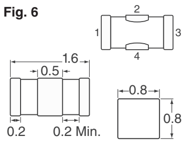

Terminal Functions	
1	IN
2	GND
3	OUT
4	GND

Fig. 7

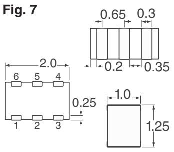

Terminal Functions	
1	GND
2	IN
3, 4, 6	GND
5	OUT

Fig. 8

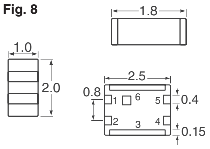

Terminal Functions	
1	Unbalanced
2	DC Feed or RF GND
3, 6	GND
4 ~ 5	Balanced

Fig. 9

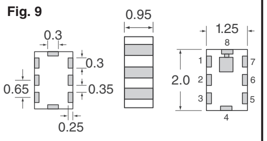

Terminal Functions	
1	Unbalanced Port
2	DC Feed + RF GND or GND
3	NC
4, 6, 8	GND
5, 7	Balanced Port

Fig. 10

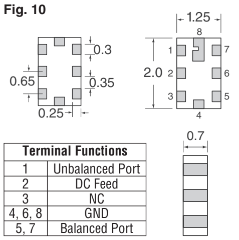

Terminal Functions	
1	Unbalanced Port
2	DC Feed
3	NC
4, 6, 8	GND
5, 7	Balanced Port

Fig. 11

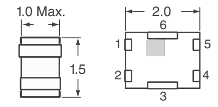

Terminal Functions	
1	Unbalanced Port
2, 3, 6	GND
4	Balanced Port 1
5	Balanced Port 2

Fig. 12

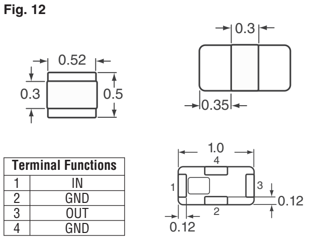

Terminal Functions	
1	IN
2	GND
3	OUT
4	GND

Fig.	Center Frequency (GHz)	Filter Type	Application	Maximum Insertion Loss (dB)	Minimum Return Loss (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
RF Filters													
1	2.45	Band Pass	Wideband-LAN and Bluetooth	2.3	9.0	445-3251-1-ND	2.58	2.20	1.81	445-3251-2-ND	2,000	775.00/M	DEA202450BT-1195A1
2	5.425	Band Pass	Wideband-LAN	2.0	9.0	445-3252-1-ND	2.58	2.20	1.81	445-3252-2-ND	2,000	775.00/M	DEA205425BT-2028A4
	2.45	Band Pass	Wideband-LAN and Bluetooth	1.5	10	445-3969-1-ND	2.00	1.70	1.40	445-3969-2-ND	2,000	600.00/M	DEA202450BT-1213C1
	2.45	Band Pass	Wideband-LAN and Bluetooth	2.6	10	445-3970-1-ND	2.00	1.70	1.40	445-3970-2-ND	2,000	600.00/M	DEA202450BT-2038A1
	3.6	Band Pass	WiMAX	2.2	10	445-3974-1-ND	2.00	1.70	1.40	445-3974-2-ND	2,000	600.00/M	DEA203600BT-1240B2
3	3.96	Band Pass	UWB	1.9	10	445-3388-1-ND	4.50	3.83	3.15	—	—	—	DEA453960BT-3002B1
	3.96	Band Pass	UWB	1.9	10	445-3389-1-ND	4.50	3.83	3.15	—	—	—	DEA453960BT-3007B1
4	2.40	Band Pass	Wideband-LAN and Bluetooth	3.0	10	445-3253-1-ND	2.75	2.34	1.93	445-3253-2-ND	2,000	825.00/M	DEA252450BT-2024C2
	2.40	Band Pass	Wideband-LAN and Bluetooth	1.2	10	445-3254-1-ND	2.75	2.34	1.93	445-3254-2-ND	2,000	825.00/M	DEA252450BT-2027A1
	2.40	Band Pass	Wideband-LAN and Bluetooth	1.4	10	445-3255-1-ND	2.75	2.34	1.93	445-3255-2-ND	2,000	825.00/M	DEA252400BT-2030A1
	2.45	Band Pass	Wideband-LAN and Bluetooth	2.5	10	445-3975-1-ND‡	2.00	1.70	1.40	445-3975-2-ND‡	2,000	600.00/M	DEA252450BT-2063C1
	2.5	Band Pass	WiMAX	2.5	—	445-3976-1-ND§	2.00	1.70	1.40	445-3976-2-ND§	2,000	600.00/M	DEA252593BT-2074A3
	5.375	Band Pass	Wideband-LAN	1.2	—	445-3977-1-ND§	2.00	1.70	1.40	445-3977-2-ND§	2,000	600.00/M	DEA255375BT-2076A1
	5.395	Band Pass	Wideband-LAN	3.5	—	445-3978-1-ND§	2.00	1.70	1.40	445-3978-2-ND§	2,000	600.00/M	DEA255395BT-2065D2
5	2.45	Low Pass	Wideband-LAN and Bluetooth	.42	14	445-3257-1-ND	2.50	2.13	1.75	445-3257-2-ND	4,000	725.00/M	DEA162500LT-1212A1
	2.45	Low Pass	Wideband-LAN and Bluetooth	.48	14	445-3258-1-ND	2.50	2.13	1.75	445-3258-2-ND	4,000	725.00/M	DEA162500LT-1217A1
	2.55	Low Pass	WiMAX	.35	10	445-3968-1-ND	1.56	1.33	1.10	445-3968-2-ND	4,000	453.00/M	DEA162700LT-5014A1
6	5.425	Low Pass	Wideband-LAN	.70	12	445-3259-1-ND	2.50	2.13	1.75	445-3259-2-ND	4,000	725.00/M	DEA165850LT-1197B2
	900MHz	Low Pass	AGSM-EGSM/Tx	0.7	—	445-3964-1-ND	1.56	1.33	1.10	445-3964-2-ND	4,000	453.00/M	DEA160915LT-1169
	1.8	Low Pass	PCS/Tx and Rx	0.7	—	445-3965-1-ND	1.56	1.33	1.10	445-3965-2-ND	4,000	453.00/M	DEA161990LT-1182
	2.45	High Pass	Wideband-LAN and Bluetooth	1.4	10	445-3966-1-ND	1.56	1.33	1.10	445-3966-2-ND	4,000	453.00/M	DEA162400HT-8004B1
	2.45	Band Pass	Wideband-LAN and Bluetooth	2.0	10	445-3967-1-ND‡	2.00	1.70	1.40	445-3967-2-ND‡	4,000	580.00/M	DEA162450BT-1247B1
7	2.40	High Pass	Wideband-LAN and Bluetooth	.80	—	445-3260-1-ND	2.58	2.20	1.81	445-3260-2-ND	2,000	775.00/M	DEA202484HT-8002A1
8	2.45	Band Pass	Wideband-LAN and Bluetooth	3.0	—	445-3256-1-ND	3.83	3.26	2.69	445-3256-2-ND	2,000	1150.00/M	DEA252450BT-7022B1
9	2.45	Band Pass	Wideband-LAN and Bluetooth	3.5	9	445-3383-1-ND	2.93	2.49	2.05	445-3383-2-ND	2,000	879.00/M	DEA202450BT-7077A1
	2.45	Band Pass	Wideband-LAN and Bluetooth	3.4	8.5	445-3971-1-ND†	2.19	1.86	1.54	445-3971-2-ND†	2,000	656.00/M	DEA202450BT-7089C3
	2.45	Band Pass	Wideband-LAN and Bluetooth	2.5	9	445-3973-1-ND†	2.19	1.86	1.54	445-3973-2-ND†	2,000	656.00/M	DEA202450BT-7112B1
10	2.44	Band Pass	Bluetooth	5.0	10	445-3384-1-ND	2.93	2.49	2.05	445-3384-2-ND	2,000	879.00/M	DEA202450BT-7041E1
	2.40	Band Pass	Wideband-LAN and Bluetooth	2.3	11	445-3972-1-ND	2.19	1.86	1.54	445-3972-2-ND	2,000	656.00/M	DEA202450BT-7099A1
11	2.5	Band Pass	WiMAX	2.8	7	445-4117-1-ND	1.50	1.28	1.05	445-4117-2-ND	2,000	450.00/M	DEA212495BT-7055A2

Fig.	Frequency Range (GHz)	Phase Shift	Application	VSWR (dB) Max.	Minimum Insertion Loss (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Delay Lines													
12	1.71 ~ 1.91	-30	DCS/PCS	1.5	0.4	445-3961-1-ND	1.56	1.33	1.10	445-3961-2-ND	10,000	422.00/M	DEA101910DT-6004A1
	1.71 ~ 1.91	-75	DCS/PCS	1.7	0.4	445-3962-1-ND	1.56	1.33	1.10	445-3962-2-ND	10,000	422.00/M	DEA101910DT-6016A1
	1.71 ~ 1.91	-46.93	DCS/PCS	1.09	0.16	445-3963-1-ND	1.56	1.33	1.10	445-3963-2-ND	10,000	422.00/M	DEA101910DT-6017A1

† Pin Configuration — Pin 2 NC. § Pin Configuration — Pin 2 OUT, Pin 3 GND. ‡ Pin Configuration — Pin 1 and 3 GND, Pin 2 IN, Pin 4 OUT.

TDK Multilayer Diplexers DPX Series - Surface Mount

Dimensions in mm

Fig. 1

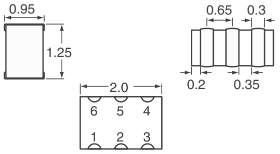

Terminal Functions	
1, 3, 5	GND
2	ANT
4	HIGH
6	LOW

Fig. 2

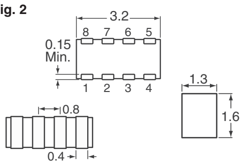

Terminal Functions	
1	HIGH (5.0GHz)
2	GND
3	GND
4	LOW (2.4GHz)
5	GND
6	ANT (Common)
7	GND
8	GND

Fig. 3

Terminal Functions	
1	iDEN Port
2	GND
3	GPS Port
4	GND
5	Antenna Port
6	GND

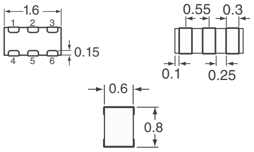

Fig.	High Frequency (MHz)	Low Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1	4.000	2.400	445-3390-1-ND	4.00	3.40	2.80	—	—	—	DPX204752DT-4028A1
	5.000	2.400	445-3261-1-ND	2.75	2.34	1.93	—	—	—	DPX205950DT-9008A1
	1.850	892	445-3980-1-ND	2.19	1.86	1.54	445-3980-2-ND	2,000	656.00/M	DPX201990DT-4011D1
	1.920	859	445-3981-1-ND	2.19	1.86	1.54	445-3981-2-ND	2,000	656.00/M	DPX201990DT-4014A2
	2.045	857	445-3982-1-ND	2.19	1.86	1.54	445-3982-2-ND	2,000	656.00/M	DPX202170DT-4021A1
2	5.000	2.400	445-3263-1-ND	3.83	3.26	2.69	445-3263-2-ND	2,000	1150.00/M	DPX315950DT-5005B2
3	1.575	867	445-3979-1-ND	2.06	1.76	1.45	445-3979-2-ND	4,000	619.00/M	DPX161576DT-8011B1

Panasonic® Hybrid Passive RF/Microwave Devices

Note: All drawings are top view.

These components are suited for Mobile Phones (Handsets/Base Stations), Navigation Devices (GPS), Pagers, Mobile Computing (PCs and PDAs), Mobile Data Terminals, Wireless Microphones, Cordless Phones and Wireless Local Area Network (WLAN) applications.

SPECIFICATIONS: • Operating Temperature: -30°C ~ 85°C **• Soldering:** 230°C for 5 seconds

BALUN: Ultra small, thin, high precision, with ultra-fine geometry baluns to meet your single-ended to double-ended to electronic circuitry interface requirements **Application:** Single/Double Ended Mixer, Differential Amp, Matching.

DIRECTIONAL COUPLER: Miniaturized, high coupling efficiency, low-cost, with ultra-fine geometry directional couplers to meet your most demanding coupling needs **Application:** To control transmitted power.

DIRECTIONAL COUPLER with LC FILTER: A directional coupler having the above same features and benefits, but also incorporating an LC Filter **Application:** To control transmitted power while suppressing spurious noise.

POWER DIVIDER: Miniaturized, high efficiency/low-loss, with ultra-fine geometry, three port power divider to meet your circuitry power handling requirements **Application:** To divide internal signals (ex. VCO).

Fig. 1

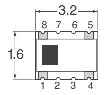

Fig. 2

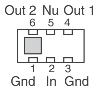

Fig. 3

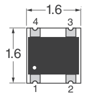

Fig. 4

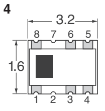

Fig. 5

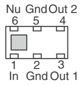

Fig. 6

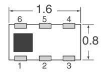

Fig. 7

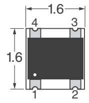

Fig. 8

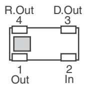

Fig. 9

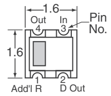

Fig. 10}

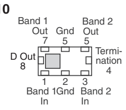

Fig. 11

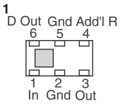

Fig. 12

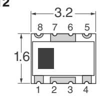

Fig. 13

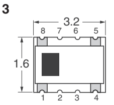

Fig. 14

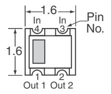

Fig.	Description	Operating Frequency (MHz)	Impedance In/Out (Ω)	Insertion Loss (Maximum)	Difference of Phase (Degree)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
1	Balun	380 ~ 430	50/200	1dB	180 ±15	3.2 x 1.6	P10702CT-ND	1.95	1.64	1.55	500	472.08	EHF-FD1617
2	Balun	1700 ~ 1900	50/50	0.8dB	180 ±10	3.2 x 1.6	P12025CT-ND	1.87	1.57	1.48	—	—	EHF-1BD1800
	Balun	1700 ~ 1900	50/100	0.8dB	180 ±10	3.2 x 1.6	P12026CT-ND	1.87	1.57	1.48	—	—	EHF-1BE1800
	Balun	1700 ~ 1900	50/200	0.8dB	180 ±10	3.2 x 1.6	P12028CT-ND	1.87	1.57	1.48	—	—	EHF-1BG1800
3	Balun	824 ~ 894	50/200	1dB	180 ±15	1.6 x 1.6	P10703CT-ND	1.95	1.64	1.55	4,000	944.16/M	EHF-FD1622
	Balun	880 ~ 960	50/200	2dB	180 ±15	1.6 x 1.6	P10706CT-ND	1.95	1.64	1.55	4,000	944.16/M	EHF-FD1620
4	Balun	1700 ~ 1900	50/200	1dB	180 ±15	3.2 x 1.6	P10711-ND†	1.76	1.48	1.40	—	—	EHF-FD1626
5	Balun	1700 ~ 1900	50/50	1.0dB	180 ±15	2.0 x 1.25	P12029CT-ND	1.87	1.57	1.48	—	—	EHF-2BD1800
	Balun	1920 ~ 2170	50/50	1.0dB	180 ±15	2.0 x 1.25	P12030CT-ND	1.87	1.57	1.48	—	—	EHF-2BD2060
	Balun	1700 ~ 1900	50/100	1.0dB	180 ±15	2.0 x 1.25	P12033CT-ND	1.87	1.57	1.48	—	—	EHF-2BE1800
	Balun	1700 ~ 1900	50/200	1.0dB	180 ±15	2.0 x 1.25	P12037CT-ND	1.87	1.57	1.48	—	—	EHF-2BG1800
	Balun	1920 ~ 2170	50/200	1.0dB	180 ±15	2.0 x 1.25	P12038CT-ND	1.87	1.57	1.48	—	—	EHF-2BG2060
	Balun	2400 ~ 2500	50/200	1.0dB	180 ±15	2.0 x 1.25	P12039CT-ND	1.87	1.57	1.48	—	—	EHF-2BG2450
	Balun	3400 ~ 4000	50/100	1.0dB	180 ±20	2.0 x 1.25	P12041CT-ND	1.87	1.57	1.48	—	—	EHF-FD1755T
6	Balun	5150 ~ 5350	50/100	1.2dB	180 ±15	1.6 x 0.8	P12428CT-ND	4.96	4.17	3.93	—	—	EHF-4BE5250

Fig.	Description	Operating Frequency (MHz)	Coupling Factor (dB)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
7	Directional	800 ~ 1000	17 ±2	0.30dB	24dB	1.3	1.6 x 1.6	P10684CT-ND	1.63	1.26	1.15	4,000	637.00/M	EHF-FD1540
	Coupler	1850 ~ 1950	14 ±2	0.40dB	19dB	1.3	1.6 x 1.6	P10691CT-ND	1.63	1.26	1.15	4,000	637.00/M	EHF-FD1541
8	Directional	1710 ~ 1910	17 ±1.5	0.25dB	27dB	1.3	1.6 x 0.8	P12044CT-ND	1.53	1.19	1.08	—	—	EHF-4CQ1810
	Coupler	820 ~ 850	20 ±1	0.25dB	30dB	1.3	1.6 x 0.8	P12045CT-ND	1.53	1.19	1.08	—	—	EHF-4CT0835
9	Directional	1850 ~ 1950	20 ±1	0.3dB	26dB	1.3	1.6 x 1.6	P12046CT-ND	1.53	1.19	1.08	—	—	EHF-FD1542
	Coupler	1850 ~ 1950	17 ±1	0.3dB	23dB	1.3	1.6 x 1.6	P12047CT-ND	1.53	1.19	1.08	500	383.50	EHF-FD1548
10	Dual Directional	880 ~ 915 1710 ~ 1785	19 ±2 14 ±1.5	0.35dB 0.45dB	24dB 17dB	1.5 1.5	2.0 x 1.25	P12049CT-ND	1.07	.87	.82	500	383.50	EHF-FD1812D
		880 ~ 915 1710 ~ 1785	14 ±1 14 ±1	0.45dB 0.45dB	18dB 18dB	1.5 1.5	2.0 x 1.25	P12050CT-ND	1.53	1.19	1.08	—	—	EHF-FD1824

Fig.	Description	Operating Frequency (MHz)	Coupling Factor (dB)	Insertion Loss (Maximum)	2FO Attenuation (Minimum)	3FO Attenuation (Minimum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
11	Directional Coupler	880 ~ 915	20 ±1	0.45dB	22dB	17dB	2.0 x 1.25	P12051CT-ND	1.82	1.41	1.28	—	—	EHF-FD1728
	with Filter	1710 ~ 1785	20 ±1	0.45dB	22dB	17dB	2.0 x 1.25	P12052CT-ND	1.82	1.41	1.28	500	455.50	EHF-FD1729

Fig.	Description	Operating Frequency (MHz)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
12	Power Divider	720 ~ 760	4.0dB	18dB	1.8	3.2 x 1.6	P10715-ND†	1.80	1.46	1.31	—	—	EHF-FD1502
13	Power Divider	981 ~ 1008	4.0dB	18dB	2.1	3.2 x 1.6	P10716-ND†	1.80	1.46	1.31	—	—	EHF-FD1508
	Power Divider	1546 ~ 1630	4.0dB	18dB	1.9	3.2 x 1.6	P10717CT-ND	1.94	1.50	1.37	4,000	760.00/M	EHF-FD1503
	Power Divider	1607 ~ 1685	4.0dB	18dB	1.6	3.2 x 1.6	P10718-ND†	1.72	1.39	1.25	—	—	EHF-FD1506
	Power Divider	1880 ~ 1920	4.0dB	18dB	1.6	3.2 x 1.6	P10720-ND†	1.72	1.39	1.25	—	—	EHF-FD1507
	Power Divider	2043 ~ 2104	4.0dB	18dB	1.6	3.2 x 1.6	P10721-ND†	1.72	1.39	1.25	—	—	EHF-FD1509
14	Power Divider	945 ~ 979	4.0dB	18dB	2.1	1.6 x 1.6	P12054CT-ND	1.53	1.19	1.08	—	—	EHF-FD1779

† Bulk Package ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom **WÜRTH ELEKTRONIK**

WE-FI Series — Leaded Toroidal Line Chokes

RoHS COMPLIANT

Features:

- High storage capacity
- Iron powder cores with low losses
- Low magnetically leakage field

Applications:

- Application in voltage transformers and power supplies
- For interference frequencies up to 10MHz
- Perfect for filtering of symmetric interferences

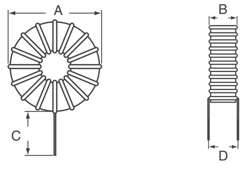

Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Dimensions — mm A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
10.0	0.020	2.00	10.5	5.5	15.0	5.0	732-1416-ND	2.68	2.24	1.99	7447054
12.0	0.030	1.00	10.0	5.0	15.0	4.0	732-1417-ND	2.68	2.24	1.99	7447053
22.0	0.015	5.00	19.0	10.5	15.0	8.0	732-1418-ND	3.04	2.54	2.25	7447017
29.0	0.015	5.00	18.5	9.7	15.0	8.0	732-1419-ND	3.04	2.54	2.25	7447016
68.0	0.055	2.00	14.0	7.0	15.0	6.0	732-1423-ND	2.73	2.28	2.02	7447033
100.0	0.070	2.00	15.5	8.0	15.0	7.0	732-1424-ND	2.73	2.28	2.02	7447021
100.0	0.035	5.00	25.0	11.0	15.0	8.0	732-1425-ND	3.31	2.76	2.45	7447070
150.0	0.045	5.00	27.5	13.0	15.0	11.5	732-1427-ND	3.94	3.29	2.91	7447076
220.0	0.220	0.80	14.0	7.5	15.0	6.0	732-1428-ND	2.73	2.28	2.02	7447036
220.0	0.160	1.00	15.8	7.5	15.0	7.0	732-1429-ND	2.73	2.28	2.02	7447020
300.0	0.130	2.00	21.0	11.0	25.0	9.0	732-1430-ND	3.31	2.76	2.45	7447060
470.0	0.225	1.00	18.5	9.5	15.0	9.0	732-1432-ND	2.73	2.28	2.02	7447010
470.0	0.110	3.00	25.0	12.0	25.0	11.0	732-1433-ND	3.31	2.76	2.45	7447071
860.0	0.150	3.00	28.5	15.0	25.0	14.0	732-1434-ND	3.94	3.29	2.91	7447075

WE-CMB Series — Current Compensated Chokes

RoHS COMPLIANT

Features:

- With this product you can achieve high suppression of asymmetric interferences even at low frequency ranges
- Broadband interference suppression because of low capacitance winding technique
- Very compact design
- Best possible current at small size

Applications:

- Power electronics
- Power line input and output filter
- For filtering of devices without a stable ground connection
- Radio interference suppression in motors

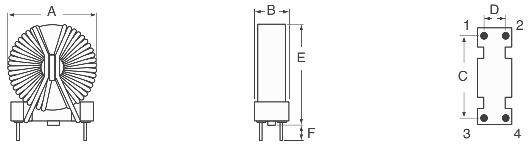

Inductance (mH)	DCR Max. (mΩ)	Rated Current (A)	Dimensions — mm A	B	C	D	E	F	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
								XS-Type					
1.0	45	2.0	15.0	7.5	10.0	4.5	18.0	2.5	732-1435-ND	4.47	3.73	3.31	744821201
4.0	140	1.5	15.0	7.5	10.0	4.5	18.0	2.5	732-1436-ND	4.47	3.73	3.31	744821240
10.0	350	0.7	15.0	7.5	10.0	4.5	18.0	2.5	732-1437-ND	4.47	3.73	3.31	744821110
20.0	1000	0.5	15.0	7.5	10.0	4.5	18.0	2.5	732-1438-ND	4.47	3.73	3.31	744821120
14	15	4.0	16.0	7.5	10.0	4.5	17.5	—	732-1459-ND	4.47	3.73	3.31	744841414
30	26	3.0	16.0	7.5	10.0	4.5	17.5	—	732-1460-ND	4.47	3.73	3.31	744841330
47	40	2.0	16.0	7.5	10.0	4.5	17.5	—	732-1461-ND	4.47	3.73	3.31	744841247
100	80	1.5	16.0	7.5	10.0	4.5	17.5	—	732-1462-ND	4.47	3.73	3.31	744841210
								S-Type					
1.0	35	3.0	17.5	13.0	7.7	5.0	22.0	3.0	732-1439-ND	5.37	4.48	3.97	744822301
2.2	70	2.0	17.5	13.0	7.7	5.0	22.0	3.0	732-1440-ND	5.37	4.48	3.97	744822222
10.0	360	1.0	17.5	13.0	7.7	5.0	22.0	3.0	732-1442-ND	5.37	4.48	3.97	744822110
20.0	540	0.5	17.5	13.0	7.7	5.0	22.0	3.0	732-1443-ND	5.37	4.48	3.97	744822120
								M-Type					
1.0	13	6.0	23.0	17.0	7.5	10.7	28.0	3.0	732-1444-ND	6.71	5.60	4.96	744823601
3.3	60	2.5	23.0	17.0	7.5	10.7	28.0	3.0	732-1446-ND	6.71	5.60	4.96	744823333
20.0	270	1.5	23.0	17.0	7.5	10.7	28.0	3.0	732-1448-ND	6.71	5.60	4.96	744823220
								L-Type					
1.0	7	10.0	27.5	18.5	10.0	12.0	33.0	5.0	732-1449-ND	7.60	6.34	5.62	744824101
2.2	20	6.0	27.5	18.5	10.0	12.0	33.0	5.0	732-1450-ND	7.60	6.34	5.62	744824622
10.0	105	3.0	27.5	18.5	10.0	12.0	33.0	5.0	732-1452-ND	7.60	6.34	5.62	744824310
								XL-Type					
1.0	9	12.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1454-ND	12.52	10.44	9.25	7448251201
2.2	14	8.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1455-ND	12.52	10.44	9.25	7448258022
3.3	25	6.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1463-ND	12.52	10.44	9.25	7448256033
10.0	55	5.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1457-ND	12.52	10.44	9.25	744825510
20.0	160	3.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1458-ND	12.52	10.44	9.25	744825320

WE-CNSW Series — SMD Common Mode Noise Suppressor

RoHS COMPLIANT

Features:

- High common mode suppression at high frequency
- Operating temperature: -40°C ~ 125°C
- Recommended solder profile: Reflow

Applications:

- USB 2.0
- Firewire/IEEE 1394
- LVDS
- High Speed Data Lines
- Common Mode Filters

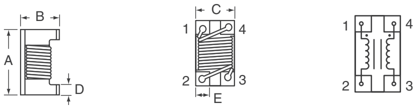

Impedance (Ω) @ 100MHz	DCR Max. (Ω)	Rated Current (A)	Dimensions — mm A	B	C	D	E	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Würth Part No.
							0805 Type							
67	0.25	0.4	2.0	1.2	1.2	0.45	0.4	732-1464-1-ND	1.14	.95	.81	732-1464-2-ND	380.00/M	744231061
120	0.30	0.37	2.0	1.2	1.2	0.45	0.4	732-1465-1-ND	1.14	.95	.81	732-1465-2-ND	380.00/M	744231121
180	0.35	0.33	2.0	1.2	1.2	0.45	0.4	732-1466-1-ND	1.14	.95	.81	732-1466-2-ND	380.00/M	744231181
260	0.40	0.3	2.0	1.2	1.2	0.45	0.4	732-1467-1-ND	1.12	.94	.80	—	—	744231261
370	0.45	0.28	2.0	1.2	1.2	0.45	0.4	732-1468-1-ND	1.14	.95	.81	732-1468-2-ND	380.00/M	744231371
							1206 Bauform Type							
90	0.30	0.37	3.2	1.9	1.6	0.6	0.6	732-1469-1-ND	1.80	1.50	1.28	732-1469-2-ND	600.00/M	744232090
160	0.40	0.34	3.2	1.9	1.6	0.6	0.6	732-1470-1-ND	1.80	1.50	1.28	732-1470-2-ND	600.00/M	744232161
260	0.50	0.31	3.2	1.9	1.6	0.6	0.6	732-1471-1-ND	1.80	1.50	1.28	732-1471-2-ND	600.00/M	744232261
600	0.80	0.26	3.2	1.9	1.6	0.6	0.6	732-1472-1-ND	1.73	1.44	1.23	—	—	744232601
1000	1.00	0.23	3.2	1.9	1.6	0.6	0.6	732-1473-1-ND	1.80	1.50	1.28	732-1473-2-ND	600.00/M	744232102
2200	1.20	0.2	3.2	1.9	1.6	0.6	0.6	732-1474-1-ND	1.80	1.50	1.28	732-1474-2-ND	600.00/M	744232222

Midcom WÜRTH ELEKTRONIK

WE-FC Series — Current Compensated Chokes

Features:
- Closed rectangular ferrite core
- 2-section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression
- Rated voltage of 250VAC
- Operating temperature: -25°C ~ 125°C
- Isolation voltage: 2000VAC

Applications:
- Switch mode power supplies
- Electronic ballasts for lamps

Dimensions in mm

Fig. 1

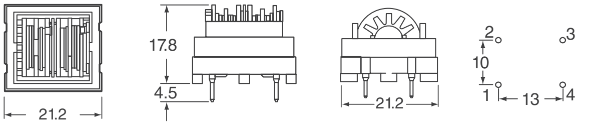

Fig. 2

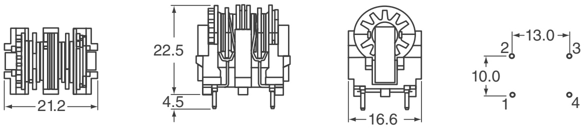

Fig.	Inductance (mH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Price Each 1	25	100	Würth Part No.
1	0.82	0.065	2.0	732-1657-5-ND†	5.88	4.90	4.34	7448640395
	1.8	0.15	1.5	732-1658-5-ND†	5.88	4.90	4.34	7448640396
	2.7	0.23	1.2	732-1659-5-ND†	5.88	4.90	4.34	7448640397
	3.3	0.25	1.1	732-1660-5-ND	5.88	4.90	4.34	7448640398
	3.9	0.28	1.0	732-1661-5-ND†	5.88	4.90	4.34	7448640399
	5.6	0.4	0.8	732-1662-5-ND	5.88	4.90	4.34	7448640400
	6.8	0.48	0.8	732-1663-5-ND†	5.88	4.90	4.34	7448640401
	10	0.72	0.6	732-1664-5-ND	5.88	4.90	4.34	7448640402
	18	1.17	0.5	732-1665-5-ND†	5.88	4.90	4.34	7448640403
	22	1.61	0.4	732-1666-5-ND	5.88	4.90	4.34	7448640404
	33	2	0.3	732-1667-5-ND†	5.88	4.90	4.34	7448640405
	0.82	0.065	2.0	732-1668-5-ND†	5.25	4.38	3.88	7448640406
	1.2	0.095	1.6	732-1669-5-ND†	5.25	4.38	3.88	7448640407
	1.8	0.12	1.5	732-1670-5-ND	5.25	4.38	3.88	7448640408
	2.2	0.17	1.3	732-1671-5-ND†	5.25	4.38	3.88	7448640409
2	2.7	0.19	1.2	732-1672-5-ND	5.25	4.38	3.88	7448640410
	3.3	0.21	1.2	732-1673-5-ND†	5.25	4.38	3.88	7448640411
	3.9	0.27	1.0	732-1674-5-ND	5.25	4.38	3.88	7448640412
	5.6	0.42	0.8	732-1675-5-ND†	5.25	4.38	3.88	7448640413
	6.8	0.47	0.7	732-1676-5-ND	5.25	4.38	3.88	7448640414
	10	0.71	0.6	732-1677-5-ND†	5.25	4.38	3.88	7448640415
	18	1.2	0.5	732-1678-5-ND	5.25	4.38	3.88	7448640416
	33	2.5	0.3	732-1680-5-ND†	5.25	4.38	3.88	7448640418

† 732-1920-ND (744864) FC Series Kit. **$97.50**

WE-LF Series — SMD Current Compensated Power Line Chokes

Dimensions in mm

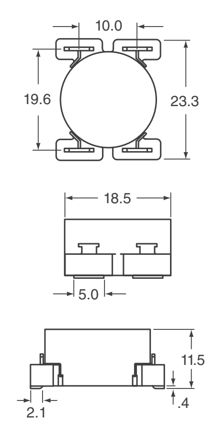

Features:
- Compact size
- Toroidal core with sector winding
- High attenuation of common mode interferences in low and middle frequency range
- Operating voltage: 250VAC

Applications:
- Mains filter
- Power electronics
- SMPS

Inductance (mH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Pricing 200	Würth Part No.
27	1.20	0.4	732-1850-1-ND	9.36	7.80	6.63	967.20	7446630027
39	1.70	0.4	732-1851-1-ND	9.36	7.80	6.63	967.20	7446630039
47	2.60	0.3	732-1852-1-ND	9.36	7.80	6.63	967.20	7446630047
6.8	0.30	1.0	732-1853-1-ND	9.36	7.80	6.63	967.20	7446631007
10	0.55	0.7	732-1854-1-ND	9.36	7.80	6.63	967.20	7446631010
1.0	0.06	2.0	732-1855-1-ND	9.36	7.80	6.63	967.20	7446632001
2.2	0.10	2.0	732-1856-1-ND	9.36	7.80	6.63	967.20	7446632002
3.3	0.15	1.5	732-1857-1-ND	9.36	7.80	6.63	967.20	7446632003
0.7	0.03	4.0	732-1858-1-ND	9.36	7.80	6.63	967.20	74466340007

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! WE-CMS Series — SMD Common Mode Line Filter

Dimensions in mm

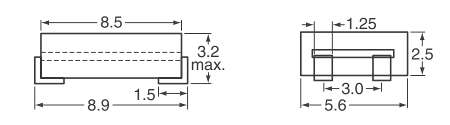

Features:
- This common mode SMD bead suppresses interferences effective on data lines within the same frequency range.
- Maximum current capability up to 5A
- Low DC resistance with 3mΩ

Applications:
- Power Supply Systems
- Symmetric data lines

Impedance (Ω) @100MHz	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,400	Würth Part No.
52	0.003	5	732-2358-1-ND	4.20	3.50	2.98	732-2358-2-ND	1225.00/M	7427521

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

WE-SLM Series — SMD Common Mode Line Filter

Features:
- Small Size • High currency capability up to 300mA • Rated voltage: 80VDC (42VAC) • Operating Temperature Range: -40°C ~ 125°C

Applications:
- USB • CAN • FireWire • Signal lines and sensor lines • Power supply systems • Data lines

Dimensions in mm

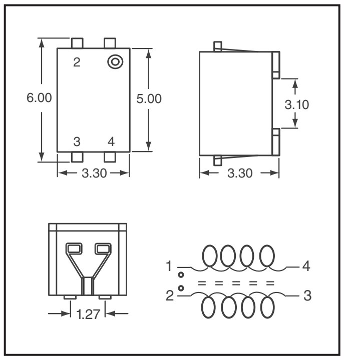

Inductance (µH)	DC Resistance (Ω)	Maximum Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Würth Part No.
11	0.18	800	732-1681-1-ND	3.60	3.00	2.55	732-1681-2-ND	750.00	744242110
22	0.23	1500	732-1682-1-ND	3.60	3.00	2.55	732-1682-2-ND	750.00	744242220
33	0.27	2000	732-1683-1-ND	3.60	3.00	2.55	732-1683-2-ND	750.00	744242330
51	0.32	2500	732-1684-1-ND	3.60	3.00	2.55	732-1684-2-ND	750.00	744242510
100	0.58	4000	732-1685-1-ND	3.60	3.00	2.55	732-1685-2-ND	750.00	744242101
470	0.35	2200	732-1686-1-ND	3.60	3.00	2.55	732-1686-2-ND	750.00	744242471

WE-SL2 Series — SMD Common Mode Line Filters

Features:
- Offering a wide bandwidth with the core materials NiZn / MnZn • Rated Voltage: 80VDC (42VAC) • UL compliant housing • Operating temperature: -40°C ~ 125°C • Recommended solder profile: Reflow

Applications:
- Power supply systems • Filter for measurement signals • CAN

Dimensions in mm

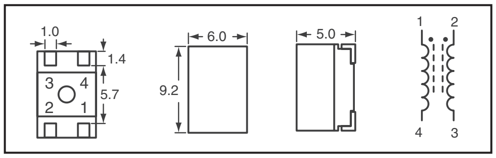

Inductance (µH)	Maximum Impedance (Ω)	Maximum DC Resistance (Ω)	Rated DC Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Würth Part No.
2 x 10	920	0.08	1.6	732-1475-1-ND	3.45	2.88	2.45	732-1475-2-ND	1150.00	744226
2 x 10	920	0.08	1.6	732-1476-1-ND†	3.45	2.88	2.45	732-1476-2-ND†	1150.00	744226S
2 x 25	2800	0.12	1.0	732-1477-1-ND	3.45	2.88	2.45	732-1477-2-ND	1150.00	744228
2 x 40	3100	0.25	0.9	732-1479-1-ND	3.45	2.88	2.45	732-1479-2-ND	1150.00	744225
2 x 40	3100	0.25	0.9	732-1480-1-ND†	3.45	2.88	2.45	732-1480-2-ND†	1150.00	744225S
2 x 51	5500	0.16	1.0	732-1481-1-ND	3.45	2.88	2.45	732-1481-2-ND	1150.00	744227
2 x 51	5500	0.16	1.0	732-1482-1-ND†	3.45	2.88	2.45	732-1482-2-ND†	1150.00	744227S
2 x 250	1800	0.13	1.2	732-1483-1-ND	3.45	2.88	2.45	732-1483-2-ND	1150.00	744224
2 x 500	3300	0.15	1.0	732-1484-1-ND	3.45	2.88	2.45	732-1484-2-ND	1150.00	744223
2 x 1000	6000	0.31	0.8	732-1485-1-ND	3.45	2.88	2.45	732-1485-2-ND	1150.00	744222
2 x 2000	9200	0.42	0.6	732-1486-1-ND	3.45	2.88	2.45	732-1486-2-ND	1150.00	744221
2 x 4700	20000	0.75	0.5	732-1487-1-ND	3.45	2.88	2.45	732-1487-2-ND	1150.00	744220
2 x 6500	18400	0.95	0.4	732-1488-1-ND	3.45	2.88	2.45	732-1488-2-ND	1150.00	744229

† Sectional Winding

NEW! WE-SL3 Series — SMD Common Mode Line Filter

Features:
- Low profile, only 2.5mm • Rated voltage 80VDC (42VAC) • Operating temperature: -40°C ~ 125°C

Applications:
- CAN • Data Lines • Power Lines • Filter for measurement signals • Common mode interference

Dimensions in mm

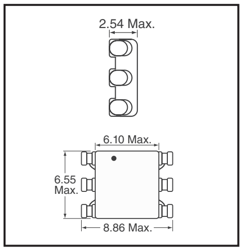

Inductance (µH)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,800	Würth Part No.
47	0.5	732-2357-1-ND	5.10	4.25	3.62	732-2357-2-ND	1700.00/M	750040299

WE-SL5 Series — SMD Common Mode Line Filters

Features:
- Small size • High current up to 5000mA • UL compliant housing (UL94-V0)
- Rated voltage: 80VDC (42VAC) • Operating temperature: -40°C ~ 125°C
- Recommended solder profile: Reflow

Applications:
- Data Lines • Power Lines

Dimensions in mm

Fig. 1

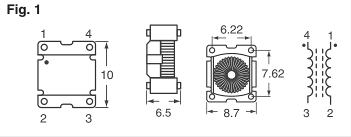

Fig. 2 ***NEW!***

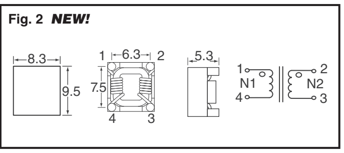

Fig.	Inductance (µH)	Maximum Impedance (Ω)	Maximum DC Resistance (Ω)	Rated DC Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Würth Part No.
1	2 x 120	460	0.025	2.5	732-1489-1-ND	4.15	3.47	2.95	732-1489-2-ND	800	1329.60	744272121
	2 x 220	780	0.032	2.2	732-1490-1-ND	4.15	3.47	2.95	732-1490-2-ND	800	1329.60	744272221
	2 x 250	970	0.035	2.0	732-1491-1-ND	4.15	3.47	2.95	732-1491-2-ND	800	1329.60	744272251
	2 x 470	1750	0.065	1.6	732-1492-1-ND	4.15	3.47	2.95	732-1492-2-ND	800	1329.60	744272471
	2 x 1000	3600	0.180	.95	732-1493-1-ND	4.15	3.47	2.95	732-1493-2-ND	800	1329.60	744272102
	2 x 2200	7500	0.300	.75	732-1494-1-ND	4.15	3.47	2.95	732-1494-2-ND	800	1329.60	744272222
	2 x 3900	9600	0.540	.52	732-1496-1-ND	4.15	3.47	2.95	732-1496-2-ND	800	1329.60	744272392
	2 x 4700	13000	0.720	.35	732-1497-1-ND	4.15	3.47	2.95	732-1497-2-ND	800	1329.60	744272472
2	5	500	0.0055	5.0	732-2214-1-ND ***NEW!***	4.38	3.65	3.11	732-2214-2-ND ***NEW!***	1,000	1460.00	744273501
	9	800	0.011	3.5	732-2215-1-ND ***NEW!***	4.38	3.65	3.11	732-2215-2-ND ***NEW!***	1,000	1460.00	744273801

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Midcom WÜRTH ELEKTRONIK

Locking Clamp-On Ferrites for Cable Assembly
STAR-FLAT, STAR-TEC, STAR-RING, STAR-FIX and STAR-GAP Series

RoHS COMPLIANT

STAR-FLAT, STAR-TEC, STAR-RING and STAR-FIX Series:

Features: • Prefixing cable system for easy assembling of the snap ferrite • Patented case design prevents air gaps for a perfect EMI suppression • The security lock guarantees electromagnetic compatibility because only authorized persons can unlock the snap ferrite with the STAR-TEC key • The innovative sleek design without any sharp edges makes the ferrite blend in on the cable • Operating temperature: -25°C ~ 105°C

STAR-GAP Series:

Features: • Worldwide first split case ferrite with 'defined air-gap' (patented) • Especially helpful for EMI problems in frequency range of 100MHz up to 2.5GHz • Data signals up to 100MHz will not be effected • Best performance (impedance) especially with 2 windings • Low magnetic saturation of the material in cases of high DC current applications which therefore gives a low reduction of impedance in comparison to other manufacturers • Pre-fixing and cable protection system is time saving and makes it easier to assemble • Not possible to remove from the cable without the WE key • Non visible locking in closed conditions • Unique and handy case design • With each packing unit you get one WE key for free • With 0.8mm air gap • Material of the plastic case: PA 6, UL94V-0 • Operating temperature: -25°C ~ 105°C

Fig. 1

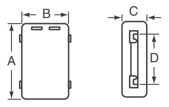

Fig. 2

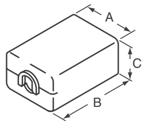

Fig. 3

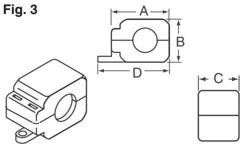

Fig. 4

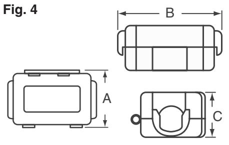

Fig.	Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn				Dimensions — mm				Digi-Key Part No.	Price Each			Würth Part No.
		@ 1MHz	@ 10MHz	@ 25MHz	@ 100MHz	A	B	C	D		1	25	100	
STAR-FLAT Series														
1	26 Conductor	—	—	97	194	53.3	33.1	16.0	34.0	732-1499-ND	10.04	8.37	7.41	7427246
	40 Conductor	—	—	78	180	71.3	33.1	16.0	52.0	732-1501-ND	13.94	11.62	10.30	7427248
	50 Conductor	—	—	42	114	84.5	19.6	16.0	64.5	732-1502-ND	16.72	13.93	12.34	74272475
STAR-TEC Series														
2	6.0	—	—	176	321	23.7	36.9	18.2	—	732-1503-ND	3.99	3.33	2.95	74271112
	7.5	—	—	145	246	24.2	36.4	20.1	—	732-1504-ND	3.99	3.33	2.95	74271131
	8.5	—	—	141	241	24.2	36.3	19.7	—	732-1505-ND	4.33	3.61	3.20	74271132
	10.5	—	—	151	270	33.6	37.7	29.5	—	732-1506-ND	5.12	4.27	3.79	74271221
	12.5	—	—	145	265	33.5	37.6	28.8	—	732-1507-ND	8.06	6.72	5.96	74271222
STAR-RING Series														
3	8.0	—	—	83	165	23	20	20	30	732-1508-ND	2.23	1.86	1.65	7427153
	14.5	—	—	64	119	32	30	20	40	732-1509-ND	3.19	2.66	2.36	7427151
	16.0	—	—	71	130	35	32	20	43	732-1510-ND	3.70	3.08	2.73	7427154
	27.0	—	—	142	327	48	44	20	55	732-1511-ND	9.45	7.88	6.98	7427155
STAR-FIX Series														
4	8.0	30	45	—	—	21.7	35.1	18.2	—	732-2404-ND ***NEW!***	7.56	6.30	5.58	74272733
	8.0	—	—	145	246	21.7	35.1	18.2	—	732-1914-ND	5.04	4.20	3.72	74271733
	12.5	—	—	151	270	31.0	35.1	28.0	—	732-1913-ND	7.64	6.37	5.65	74271722
STAR-GAP Series														
4	8.5	—	—	28	100	21.7	35.1	19	—	732-1514-ND	4.75	3.96	3.51	74271633S
	12.5	—	—	35	140	31.5	35	28.3	—	732-1513-ND	9.45	7.88	6.98	74271622S
STAR-TEC Key to open all clamps listed above										732-1498-ND	.34	.28	.25	74271

732-1915-ND (742791)	Ferrite SMD Series Kit for 1206 ~ 1812 Sizes (See Digi-Key website for contents of kit)	**$67.50**
732-1916-ND (742790)	Ferrite SMD Series Kit for 0402 ~ 0805 Sizes (See Digi-Key website for contents of kit)	**$67.50**

NEW! WE-SI Series — Leaded Toroidal Storage Chokes

RoHS COMPLIANT

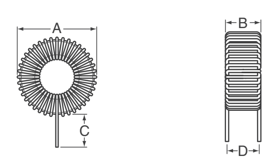

Features:

- Low magnetic stray field
- Low leakage and minimal noise because of the toroidal core made of iron powder

Applications:

- Used in switching power supplies and voltage transformers
- DC/DC converter up to 100kHz

Inductance (µH)	DCR Maximum (Ω)	Rated Current (A)	Dimensions — mm				Digi-Key Part No.	Price Each			Würth Part No.
			A (Max.)	B (Max.)	C	D		1	25	100	
100	.300	0.5	15.0	8.0	12.0	7.0	732-2268-ND	2.94	2.45	2.17	744103
150	.400	0.5	17.5	8.0	12.0	7.0	732-2269-ND	2.94	2.45	2.17	744104
220	.400	0.5	17.5	8.0	12.0	7.0	732-2270-ND	2.94	2.45	2.17	744105
330	.700	0.5	17.5	8.0	12.0	7.0	732-2271-ND	3.28	2.73	2.42	744106
470	.700	0.5	22.5	12.0	12.0	10.5	732-2272-ND	3.99	3.33	2.95	744107
100	.120	1.0	18.0	9.0	20.0	7.5	732-2273-ND	3.36	2.80	2.48	744114
150	.180	1.0	18.0	9.0	20.0	7.5	732-2274-ND	3.36	2.80	2.48	744115
220	.200	1.0	18.5	9.5	12.0	8.0	732-2275-ND	3.78	3.15	2.79	744116
330	.250	1.0	23.0	12.5	12.0	11.0	732-2276-ND	4.20	3.50	3.10	744117
470	.330	1.0	30.0	14.0	12.0	12.5	732-2277-ND	5.88	4.90	4.34	744118
680	.400	1.0	30.0	14.0	12.0	13.0	732-2278-ND	6.72	5.60	4.96	744119
100	.063	3.0	31.0	13.5	12.0	10.0	732-2279-ND	4.62	3.85	3.41	744135
220	.140	3.0	31.0	15.0	12.0	13.0	732-2280-ND	6.72	5.60	4.96	744136
300	.175	3.0	31.0	15.0	12.0	13.0	732-2281-ND	7.14	5.95	5.27	744137
470	.240	3.0	42.0	15.0	12.0	13.0	732-2282-ND	8.40	7.00	6.20	744138
680	.280	3.0	44.0	18.5	12.0	16.0	732-2283-ND	9.66	8.05	7.13	744139
100	.055	5.0	32.0	15.5	12.0	13.0	732-2284-ND	7.48	6.23	5.52	744154
150	.060	5.0	43.0	15.0	12.0	13.0	732-2285-ND	8.82	7.35	6.51	744155
220	.070	5.0	44.0	15.5	12.0	13.5	732-2286-ND	8.82	7.35	6.51	744156

Midcom WÜRTH ELEKTRONIK

EMI Suppression Toroidal Ferrite Cores

RoHS COMPLIANT

Features:

- Ferrite core made of NiZn, a material which works in a broadband frequency range
- Many different types and grades of material (NiZn) for the best possible interference suppression

Applications:

- Wires
- Coaxial cables
- Wire-wrapping cables
- Multiconductor wires
- Power supplies
- Data and gage signal lines

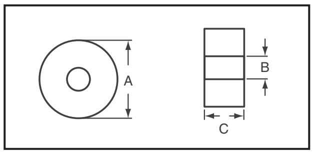

Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn @ 25MHz	Typical Impedance (Ω) with 1 Turn @ 100MHz	Dimensions — mm A	B	C	Digi-Key Part No.	Pricing 1	25	100	Würth Part No.
3.0	30	50	7.3	3.3	4.3	732-1515-ND	.17	3.50	12.40	74270111
4.6	76	123	9.5	5.0	14.5	732-1517-ND	.38	7.88	27.90	742701121
4.6	68	126	11.5	5.0	9.0	732-1518-ND	.29	6.13	21.70	74270113
4.7	25	37	10.0	5.0	3.7	732-1519-ND	.42	8.75	31.00	74270161
6.4	59	94	11.0	6.75	15.0	732-1520-ND	.63	13.13	46.50	74270162
9.6	41	161	14.0	10.0	8.0	732-1522-ND	.63	13.13	46.50	74270117
10.0	55	65	18.6	10.2	10.0	732-1524-ND	1.09	22.75	80.60	74270182
10.5	30	50	19.0	11.5	8.0	732-1526-ND	1.18	24.50	86.80	74270121
11.5	47	70	16.0	12.0	16.0	732-1527-ND	1.09	22.75	80.60	74270110
11.8	76	148	23.5	12.6	14.0	732-1528-ND	1.26	26.25	93.00	7427012
12.3	30	70	21.2	12.7	6.0	732-1529-ND	.80	16.63	58.90	74270118
13.3	45	133	22.5	13.8	6.4	732-1530-ND	.80	16.63	58.90	74270119
15.5	72	159	28.0	16.0	13.0	732-1532-ND	1.68	35.00	124.00	7427013
17.5	45	152	28.0	18.0	7.5	732-1533-ND	1.18	24.50	86.80	742701110
18.5	55	155	29.5	19.0	7.7	732-1534-ND	1.09	22.75	80.60	742701111
18.5	80	167	31.5	19.0	16.0	732-1536-ND	2.35	49.00	173.60	74270115
24.8	39	127	35.6	25.4	7.5	732-1538-ND	1.93	40.25	142.60	742701112
26.9	54	108	40.6	27.4	15.0	732-1539-ND	2.23	46.38	164.30	7427015

EMI Suppression Axial Ferrite Beads

RoHS COMPLIANT

Features:

- Ferrite core made of NiZn, a material which works in a broadband frequency range
- Many different types and grades of materials (NiZn) for the best possible interference suppression
- Suitable for interference suppression within the HF and VHF range

Applications:

- Wires
- Coaxial cables
- Wire-wrapping cables
- Multiconductor wires
- Power supplies
- Data and gage signal lines

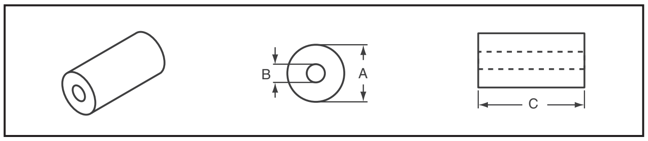

Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn @ 25MHz	Typical Impedance (Ω) with 1 Turn @ 100MHz	Dimensions — mm A	B	C	Digi-Key Part No.	Pricing 1	25	100	Würth Part No.
4.4	56	162	9.5	4.75	9.5	732-1540-ND	.29	6.13	21.70	74270033
4.6	125	158	11.5	5.0	18.5	732-1541-ND	.67	14.00	49.60	74270030
4.6	163	198	11.5	5.0	20.5	732-1542-ND	.80	16.63	58.90	74270031
4.6	170	255	11.5	5.0	25.0	732-1543-ND	.92	19.25	68.20	74270032
5.1	150	240	10.5	5.5	28.5	732-1544-ND	.80	16.63	58.90	74270036
5.9	120	192	14.1	6.3	18.0	732-1546-ND	.84	17.50	62.00	74270060
5.9	180	258	14.1	6.3	28.6	732-1547-ND	1.09	22.75	80.60	7427004
6.0	85	120	9.9	6.35	19.5	732-1548-ND	.88	18.38	65.10	74270061
7.0	133	211	14.2	7.2	25.0	732-1550-ND	1.26	26.25	93.00	74270045
6.9	85	160	12.1	7.3	15.5	732-1551-ND	.71	14.88	52.70	74270034
7.5	300	451	15.85	7.93	50.8	732-1552-ND	3.91	81.38	288.30	74270044
7.6	195	258	16.0	8.0	28.5	732-1554-ND	1.34	28.00	99.20	74270053
8.6	83	143	16.0	9.0	17.0	732-1556-ND	1.01	21.00	74.40	74270054
8.6	133	217	16.0	9.0	28.0	732-1557-ND	1.22	25.38	89.90	7427005
9.1	71	170	17.5	9.5	12.7	732-1558-ND	1.05	21.88	77.50	74270091
9.8	133	225	18.6	10.2	28.5	732-1559-ND	1.68	35.00	124.00	74270055
10.0	90	150	17.5	10.7	25.0	732-1560-ND	1.68	35.00	124.00	74270093
11.0	202	338	19.0	11.5	50.8	732-1561-ND	4.45	92.75	328.60	74270057
15.0	116	192	26.0	15.5	28.5	732-1563-ND	3.91	81.38	288.30	74270096
17.5	115	153	28.0	18.0	28.5	732-1564-ND	2.77	57.75	204.60	74270095
33.4	64	133	61.0	35.5	12.7	732-1565-ND	6.13	127.75	452.60	74270097

NEW! Ferrite Cores

RoHS COMPLIANT

Features:

- Filter for common mode interferences
- Easy to mount on flat cables

Applications:

- Interference problems on data lines of digital devices

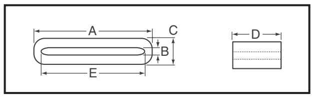

Impedance (Ω) with 1 Turn @100MHz	Dimensions — mm A	B	C	D	E	Digi-Key Part No.	Pricing 1	25	100	Würth Part No.
166	18.0	1.0	5.0	8.0	14.0	732-2395-ND	2.73	56.88	201.50	7427221
75	23.8	1.1	6.3	12.0	18.8	732-2396-ND	2.94	61.25	217.00	7427226
115	28.0	1.5	7.7	14.6	23.0	732-2397-ND	3.28	68.25	241.80	7427224
90	33.5	1.3	6.5	20.0	28.0	732-2398-ND	3.65	76.13	269.70	7427220
48	35.0	1.5	8.0	8.0	30.0	732-2399-ND	3.99	83.13	294.50	7427223
62	41.2	1.5	7.7	15	35.0	732-2400-ND	4.20	87.50	310.00	7427228
66	45.2	1.3	6.5	12.0	40.0	732-2401-ND	4.20	87.50	310.00	7427214
66	49.6	1.3	6.5	12.0	44.0	732-2402-ND	4.62	96.25	341.00	7427218
63	57.9	1.3	7.0	12.0	52.0	732-2403-ND	4.83	100.63	356.50	7427216

NEW! Ferrite Suppressors

RoHS COMPLIANT

Features:

- Filter for common mode or differential mode
- High impedance common mode inductor with 2x2 windings made by PCB line connection
- High rated current with typical 4A
- Broadband filtering because of the NiZn-ferrite core
- RF-common mode indicator for 2, 3 or 4 lines in one component

Applications:

- Suitable for absorption of common or differential mode interferences in the field of EMC
- High-current DC output filters of power supplies, such as battery charges, industrial power supplies
- With one turn, performs like a 3 or 4 times common mode choke for the signal

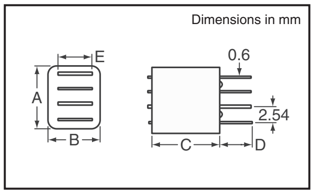

Impedance (Ω) with 1 Turn @100MHz	Dimensions — mm A	B	C	D	E	Digi-Key Part No.	Pricing 1	25	100	Würth Part No.
170	11.2	11.2	5.0	5.0	7.62	732-2405-ND	2.94	61.25	217.00	742730021
248	11.2	11.2	8.0	3.5	7.62	732-2406-ND	2.94	61.25	217.00	742730022
249	10.88	5.49	10.0	3.19	2.54	732-2407-ND	2.52	52.50	186.00	74273002
264	7.62	5.08	10.0	5.8	2.54	732-2408-ND	2.52	52.50	186.00	74273001
334	11.2	11.2	11.0	5.0	7.62	732-2409-ND	2.94	61.25	217.00	742730023

NEW! WE-PBF Series — SMD EMI Suppression Ferrite Beads

Digi-Reel® RoHS COMPLIANT

Features:

- Flat wire SMD ferrite with high current capacity
- Max. Current Rating: 6.0A

Applications:

- Voltage supply for high load current

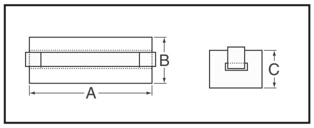

Impedance (Ω) with 1 Turn @100MHz	RDC Max. (mΩ)	Dimensions — mm A	B	C	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Pricing† 500	Würth Part No.
42	0.6	4.0	3.0	2.55	732-2376-1-ND	1.02	21.25	72.25	212.50	7427930
91	0.9	8.5	3.0	2.55	732-2393-1-ND	1.02	21.25	72.25	212.50	7427931
98	0.9	7.8	4.75	3.0	732-2394-1-ND	1.02	21.25	72.25	212.50	7427932

† For Tape and Reel part number, change 1-ND to 2-ND.

WE-CBF Series — SMD EMI Suppression Ferrite Beads

Features:

- The special SMD chip bead ferrites can be put directly on the printed circuit board
- These parts offer excellent anti-EMI properties and low DC-resistance
- Reliable Ni-Sn electrodes
- Perfect as data lined filter and for uncoupling of distribution voltage
- Highly extended spectrum
- Recommended soldering: Reflow

Size	Dimensions - mm A	B	C	D
0402	1.0	0.5	0.5	0.25
0603	1.6	0.8	0.8	0.3
0805	2.0	1.2	0.9	0.5
1206	3.2	1.6	1.1	0.5
1210	3.2	2.5	1.3	0.5
1806	4.5	1.6	1.6	0.5
1812	4.5	3.2	1.5	0.5

Type

HC: High Current
HS: High Speed
WB: Wide Band
HF: High Frequency

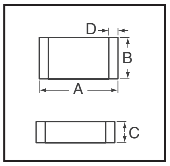

Impedance @ 100MHz (Ω)	RDC Max. (Ω)	Max. Current Rating (A)	Type	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel† Qty.	Pricing	Würth Part No.
0402 Size										
10	0.03	2.0	HC	732-2360-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927310
10	0.05	.5	HS	732-1566-1-ND	.12	2.51	8.85	10,000	59.00/M	742792701
10	0.05	.5	HS	732-2359-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927110
20	0.20	.3	HS	732-2370-1-ND✔	.18	3.75	12.75	10,000	40.00/M	74279273
30	0.15	.3	HS	732-2374-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927130
40	0.30	.3	HS	732-1567-1-ND	.12	2.51	8.85	—	—	74279270
47	0.40	.2	HS	732-2377-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927140
60	0.25	.3	HS	732-2382-1-ND✔	.18	3.75	12.75	10,000	40.00/M	742792716
60	0.30	.4	HS	732-2383-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927160
60	0.35	.3	HS	732-1568-1-ND	.12	2.51	8.85	10,000	64.00/M	74279276
70	0.20	1.2	HC	732-2390-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927370
75	0.31	.3	HS	732-2391-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927170
100	0.09	1.2	HC	732-2362-1-ND✔	.18	3.75	12.75	10,000	40.00/M	742792731
100	0.30	.2	HS	732-2361-1-ND✔	.18	3.75	12.75	10,000	40.00/M	742792711
120	0.09	1.2	HC	732-2366-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927311
120	0.35	.35	HS	732-2365-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927112
120	0.40	.3	WB	732-1570-1-ND	.12	2.51	8.85	—	—	74279271
150	0.40	.1	HS	732-2367-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927115
180	0.30	.4	WB	732-2369-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927218
220	0.38	.5	HF	732-2372-1-ND✔	.36	7.50	25.50	10,000	80.00/M	742843122
220	0.40	.2	HS	732-1569-1-ND	.12	2.51	8.85	10,000	59.00/M	742792780
220	0.80	.2	HS	732-2371-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927121
240	0.70	.2	WB	732-1571-1-ND	.12	2.51	8.85	—	—	74279278
300	0.80	.2	WB	732-1572-1-ND	.13	2.72	9.60	10,000	64.00/M	74279272
470	0.45	.25	HS	732-2379-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927141
470	0.65	.1	WB	732-2378-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927241
600	0.56	.25	HS	732-2387-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927161
600	0.60	.3	WB	732-2388-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927291
600	1.00	.2	WB	732-1573-1-ND	.13	2.72	9.60	10,000	64.00/M	74279279
600	1.60	.1	HF	732-2384-1-ND✔	.36	7.50	25.50	10,000	80.00/M	742841160
800	0.80	.05	WB	732-2392-1-ND✔	.18	3.75	12.75	10,000	40.00/M	7427927281
1000	1.50	.2	WB	732-2132-1-ND✔	.15	3.13	10.63	10,000	33.00/M	742792796
1000	1.80	.05	HF	732-2363-1-ND✔	.36	7.50	25.50	10,000	80.00/M	742841210
0603 Size										
15	0.10	.5	HS	732-1575-1-ND	.09	1.91	6.75	4,000	45.00/M	74279268
22	0.05	1.0	HC	732-1597-1-ND	.13	2.68	9.45	4,000	63.00/M	742792604
28	0.03	4.0	HC	732-1590-1-ND	.13	2.68	9.45	4,000	63.00/M	742792603
30	0.04	3.0	HC	732-1591-1-ND	.13	2.68	9.45	4,000	63.00/M	742792609
40	0.15	.4	HS	732-1576-1-ND	.09	1.91	6.75	4,000	45.00/M	74279260
47	0.10	.5	HS	732-1596-1-ND	.09	1.91	6.75	4,000	45.00/M	742792608
60	0.30	.5	WB	732-1595-1-ND	.09	1.91	6.75	4,000	45.00/M	74279267
68	0.30	.3	HS	732-2267-1-ND✔	.13	2.75	9.35	4,000	39.00/M	742792607
100	0.15	.5	WB	732-1579-1-ND	.09	1.91	6.75	4,000	45.00/M	742792620
120	0.30	.5	WB	732-1594-1-ND	.09	1.91	6.75	4,000	45.00/M	74279262
180	0.30	.5	WB	732-1580-1-ND	.08	1.74	6.15	—	—	742792622
180	0.55	.2	HF	732-2368-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742861118
220	0.25	.6	HF	732-2373-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742863122
220	0.30	.5	WB	732-1581-1-ND	.09	1.91	6.75	4,000	45.00/M	74279263
300	0.15	2.0	HC	732-1592-1-ND	.13	2.68	9.45	4,000	63.00/M	742792641
300	0.35	.3	HS	732-1578-1-ND	.09	1.91	6.75	4,000	45.00/M	742792640
470	0.32	.5	HF	732-2380-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742863147
470	0.35	.4	HS	732-2266-1-ND✔	.13	2.75	9.35	4,000	39.00/M	742792643
470	0.45	.2	WB	732-1582-1-ND	.11	2.30	8.10	4,000	54.00/M	742792642
600	0.20	1.0	HC	732-1593-1-ND	.14	2.98	10.50	4,000	70.00/M	742792651
600	0.35	.5	HF	732-2389-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742863160
600	0.45	.2	WB	732-1583-1-ND	.11	2.30	8.10	4,000	54.00/M	74279265
600	0.90	.2	HF	732-2386-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742861160
600	1.50	.1	HF	732-2385-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742862160
1000	0.60	.2	WB	732-1598-1-ND	.13	2.68	9.45	4,000	63.00/M	74279266A
1000	0.60	.3	HS	732-1586-1-ND	.11	2.30	8.10	4,000	54.00/M	742792664
1000	0.85	.1	WB	732-1585-1-ND	.11	2.30	8.10	4,000	54.00/M	742792663
1000	1.80	.05	HF	732-2364-1-ND✔	.42	8.75	29.75	4,000	123.00/M	742861210
1500	0.70	.05	WB	732-1587-1-ND	.13	2.68	9.45	4,000	63.00/M	742792691
2200	0.80	.05	WB	732-1588-1-ND	.13	2.68	9.45	4,000	63.00/M	742792693
2500	1.00	.05	WB	732-1589-1-ND	.13	2.68	9.45	4,000	63.00/M	742792695
0805 Size										
7	0.030	3.0	HC	732-1618-1-ND	.14	2.93	10.35	4,000	69.00/M	742792010
11	0.15	.60	HS	732-1616-1-ND	.09	2.00	7.05	4,000	47.00/M	7427920
30	0.025	3.0	HC	732-1611-1-ND	.14	2.93	10.35	4,000	69.00/M	74279206
32	0.15	.05	HS	732-1599-1-ND	.09	2.00	7.05	4,000	47.00/M	74279201
60	0.025	3.0	HC	732-1612-1-ND	.14	2.93	10.35	4,000	69.00/M	742792063
75	0.20	.30	HS	732-1600-1-ND	.09	1.83	6.45	—	—	742792064
120	0.03	3.0	HC	732-1613-1-ND	.14	2.93	10.35	4,000	69.00/M	742792023
120	0.10	.50	HS	732-1601-1-ND	.09	2.00	7.05	4,000	47.00/M	74279202
220	0.05	2.0	HC	732-1614-1-ND	.14	2.93	10.35	4,000	69.00/M	742792022
220	0.30	.30	HS	732-1602-1-ND	.09	2.00	7.05	4,000	47.00/M	742792034
330	0.08	2.0	HC	732-1619-1-ND	.14	2.93	10.35	4,000	69.00/M	742792037
470	0.30	.20	WB	732-1603-1-ND	.11	2.25	7.95	4,000	53.00/M	742792036
600	0.15	2.0	HC	732-1620-1-ND	.14	2.93	10.35	4,000	69.00/M	742792040
600	0.30	.50	WB	732-1605-1-ND	.15	3.19	11.25	4,000	75.00/M	7427920415
600	0.35	.20	WB	732-1617-1-ND	.15	3.19	11.25	4,000	75.00/M	74279204
600	0.40	.20	WB	732-1604-1-ND	.15	3.19	11.25	4,000	75.00/M	742792041
1000	0.45	.20	WB	732-1606-1-ND	.15	3.19	11.25	4,000	75.00/M	74279205
1500	0.55	.20	WB	732-1607-1-ND	.14	2.93	10.35	—	—	742792091
1800	0.40	.20	HS	732-1608-1-ND	.15	3.19	11.25	4,000	75.00/M	742792090
2200	0.60	.20	WB	732-1609-1-ND	.15	3.19	11.25	4,000	75.00/M	742792093
2700	0.60	.20	WB	732-1610-1-ND	.15	3.19	11.25	4,000	75.00/M	742792095
1206 Size										
31	0.040	3.0	HC	732-1626-1-ND	.21	4.38	15.45	3,000	103.00/M	742792112
50	0.025	3.0	HC	732-1621-1-ND	.21	4.38	15.45	3,000	103.00/M	742792114
80	0.03	3.0	HC	732-1629-1-ND	.21	4.38	15.45	3,000	103.00/M	74279215
120	0.03	3.0	HC	732-1622-1-ND	.21	4.38	15.45	3,000	103.00/M	742792113
220	0.30	.30	WB	732-1624-1-ND	.17	3.66	12.90	3,000	86.00/M	742792122
600	0.10	2.0	HC	732-1623-1-ND	.21	4.38	15.45	3,000	103.00/M	74279218
600	0.30	.20	WB	732-1625-1-ND	.17	3.66	12.90	3,000	86.00/M	74279213
1000	0.45	.20	WB	732-1627-1-ND	.17	3.66	12.90	3,000	86.00/M	74279214
1210 Size										
30	0.05	3.0	HC	732-1631-1-ND	.22	4.59	16.20	2,000	108.00/M	742792310
65	0.03	3.0	HC	732-1633-1-ND	.22	4.59	16.20	2,000	108.00/M	742792312
90	0.30	.40	HS	732-1634-1-ND	.22	4.59	16.20	2,000	108.00/M	7427923
1806 Size										
60	0.01	6.0	HC	732-1635-1-ND	.24	5.14	18.15	2,000	121.00/M	742792410
80	0.04	3.0	HC	732-1636-1-ND	.22	4.68	16.50	—	—	742792411
150	0.50	.20	WB	732-1639-1-ND	.24	5.14	18.15	2,000	121.00/M	74279242
850	0.10	1.5	HC	732-1637-1-ND	.24	5.14	18.15	2,000	121.00/M	74279244
1812 Size										
70	0.03	6.0	HC	732-1640-1-ND	.36	7.65	27.00	1,000	180.00	742792510
120	0.05	3.0	HC	732-1641-1-ND	.38	8.08	28.50	1,000	190.00	742792511
530	0.05	3.0	HC	732-1642-1-ND	.40	8.50	30.00	1,000	200.00	742792515
600	0.04	3.0	HC	732-1643-1-ND	.40	8.50	30.00	1,000	200.00	742792514

† For Tape and Reel part number, change 1-ND to 2-ND. ✔ ***NEW!***

NEW! WE-SUKW Series — SMD EMI Suppression 5-Hole Ferrite Beads

Features:

- Max. Current Rating: 5A
- Low DC resistance with 3mΩ
- SMD version for easy installation on the PCB

Applications:

- Protection against radio frequency interferences of components on PCB's of PC's, text processing and other digital devices
- Typical in power supplies
- Power electronics

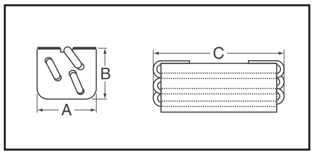

Impedance (Ω) with 2.5 Turns @100MHz	Dimensions — mm A	B	C	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Pricing† 1,000	Würth Part No.
416	5.0	4.6	8.0	732-2375-1-ND	3.60	75.00	255.00	1200.00	7427511
580	4.65	5.0	11.0	732-2381-1-ND	3.60	75.00	255.00	1200.00	7427512

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Corcom Feedthrough Filters and Capacitors

Filters – FFA and FFD Series

All parts are UL and CSA approved.

The FFA and FFD series are designed to meet the very stringent safety requirements of EN132400 class Y4 and the class Y2

Specifications: • UL94V-0 Rated • Category Temperature Range: -40°C ~ 85°C • Insulation Resistance: For C<0.33µF, R>15000MΩ / For C>0.33µF, RC(MΩ*µF) >5000s • MTBF: Typically >5 million hours

FFA Series (Class Y2): • Rated Voltage: 250VDC 50/60 Hz maximum • Test Voltage (two seconds): 5000VDC • Operating Ambient Temperature Range: 10 ~ 100 Amps: -40°C ~ 60°C; 200 Amps: -40°C ~ 50°C; 250 and 300 Amps: -40°C ~ 40°C • Pulse Test (EN132400): 5000V Peak

FFD Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Operating Ambient Temperature Range: -40°C ~ 60°C • Pulse Test (EN132400): 2500V Peak

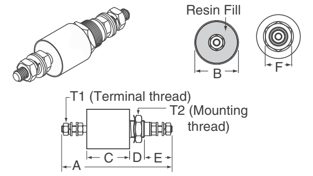

Series	Filter ID	Frequency (MHz) 0.01	0.03	0.1	0.3	1	10	100	1000
FFA	CA	—	—	2	4	10	22	65	100
	DG	—	—	3	7	15	40	72	100
	GJ	—	—	5	12	21	60	90	100
	HF	—	2	10	18	27	60	100	100
	HN	2	4	10	17	24	75	90	100
	NP	7	15	24	31	44	80	100	100
	PP	12	20	29	33	56	80	100	100
FFD	CA	—	—	2	4	10	23	65	100
	HE	2	4	10	18	27	67	95	100
	PK	14	21	30	34	53	75	100	100

Series	Corcom Part No.	Dimensions - mm A	B	C	D	E	F	T1 (Terminal Thread) Thread	T1 (Terminal Thread) Torque (In.-lbs.)	T1 (Terminal Thread) Thread	T1 (Terminal Thread) Torque (In.-lbs.)
FFA	32FFA6-CA	106	20	61	12	18	17	M4	11	M16 x 1	62
	16FFA6-DG	116	25	69	14	18	22	M4	11	M16 x 1	62
	10FFA6-GJ	140	20	99	12	16	17	M3	4	M12 x 1	35
	300FFA6-HF	200	54	93	19	46	40	M16	177	M32 x 1.5	212
	32FFA6-HN	148	25	101	14	18	22	M4	11	M16 x 1	62
	200FFA6-NP	243	54	146	19	40	40	M10	70	M27 x 1.5	142
	100FFA6-PP	227	54	144	19	32	40	M8	44	M27 x 1.5	142
FFD	10FFD6-CA	90	20	49	12	16	17	M3	4	M12 x 1	35
	32FFD6-CA	98	20	53	12	18	17	M4	11	M12 x 1	35
	10FFD6-HE	130	20	89	12	16	17	M3	4	M12 x 1	35
	16FFD6-HE	139	20	94	12	18	17	M4	11	M12 x 1	35
	100FFD6-PK	228	38	145	19	32	27	M8	44	M24 x 1	124

Filter ID	Cap. (nF)	Rated Current (A)	Inductance (nH)	DC Resistance (MΩ) Max.	Digi-Key Part No.	Price Each 1	25	50	Corcom Part No.
FFA Series									
CA	2 x 10	32	70	4	CCM1830-ND	126.08	114.74	105.28	32FFA6-CA
DG	2 x 22	16	170	4	CCM1832-ND	124.44	113.25	103.91	16FFA6-DG
GJ	2 x 47	10	210	9	CCM1834-ND	118.44	107.79	98.90	10FFA6-GJ
HF	2 x 100	300	160	<1	CCM1831-ND	344.44	313.45	287.61	300FFA6-HF
HN	2 x 100	32	250	6	CCM1835-ND	145.00	131.95	121.08	32FFA6-HN
NP	2 x 470	200	330	<2	CCM1833-ND	278.84	253.75	232.84	200FFA6-NP
PP	2 x 1000	100	330	<2	CCM1836-ND	252.22	229.53	210.61	100FFA6-PP
FFD Series									
CA	2 x 10	10	70	6	CCM1815-ND	105.36	95.88	87.98	10FFD6-CA
CA	2 x 10	32	70	6	CCM1816-ND	120.08	109.28	100.27	32FFD6-CA
HE	2 x 100	10	140	8	CCM1817-ND	112.66	102.53	94.08	10FFD6-HE
HE	2 x 100	16	140	8	CCM1837-ND	122.68	111.64	102.44	16FFD6-HE
PK	2 x 1000	100	240	2	CCM1838-ND	240.22	218.61	200.59	100FFD6-HE

Capacitors – AFC and DFC Series

The AFC and DFC Series are designed to meet the very stringent safety requirements of EN132400 class Y2 and Y4 **Specifications:** • UL94V-0 Rated • Operating Ambient Temperature Range: 10 ~ 200 Amps: -40°C ~ 60°C; 250 & 300 Amps: -40°C ~ 40°C • Insulation Resistance: For C<0.33µF, R >15000MΩ / For C>0.33µF, RC(MΩ*µF) >5000s • MTBF: Typically >10 million hours

AFC Series (Class Y2): • Rated Voltage: 250VAC maximum • Test Voltage (two seconds): 5000VDC • Pulse Test (EN132400): 5000V Peak

DFC Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Pulse Test (EN132400): 2500V Peak

Series	Cap. ID	Frequency (MHz) 0.01	0.03	0.1	0.3	1	10	100	1000
AFC	A	—	—	—	—	—	8	38	45
	B	—	—	—	—	—	14	43	60
	C	—	—	—	—	3	21	45	70
	F	—	—	—	4	12	30	48	90
	G	—	—	2	6	15	34	50	90
	H	—	2	5	11	20	40	65	90
	N	6	9	16	22	33	33	90	90
	P	10	15	22	30	40	42	90	90
DFC	C	—	—	—	—	3	21	45	70
	G	—	—	2	6	15	34	50	90
	H	—	2	5	11	20	40	65	90
	N	6	9	15	22	33	33	90	90
	P	10	15	24	32	42	50	90	90
	Q	13	21	31	42	50	58	90	90
	R	18	26	36	45	52	70	90	90

Series	Corcom Part No.	Dimensions - mm A	B	C	D	E	F	T1 (Terminal Thread) Thread	T1 (Terminal Thread) Torque (In.-lbs.)	T2 (Mounting Thread) Thread	T2 (Mounting Thread) Torque (In.-lbs.)
AFC	10AFC6-A	57	15	18	10	16	13	M3	4	M10 x 1	27
	10AFC6-B	57	15	18	10	16	13	M3	4	M10 x 1	27
	16AFC6-B	63	20	18	12	18	17	M4	11	M12 x 1	35
	16AFC6-G	75	20	30	12	18	17	M4	11	M12 x 1	35
	16AFC6-H	77	25	30	14	18	22	M4	11	M16 x 1	62
	32AFC6-B	63	20	18	12	18	17	M4	11	M12 x 1	35
	32AFC6-C	63	20	18	12	18	17	M4	11	M12 x 1	35
	32AFC6-F	75	20	30	12	18	17	M4	11	M12 x 1	35
	32AFC6-H	77	25	30	14	18	22	M4	11	M16 x 1	62
	63AFC6-C	96	25	30	14	26	22	M6	22	M16 x 1	62
	100AFC6-G	113	32	33	16	32	27	M8	44	M20 x 1	89
	200AFC6-H	130	38	33	19	40	27	M10	71	M24 x 1	124
	250AFC6-P	160	54	54	19	46	40	M12	97	M32 x 1.5	212
	300AFC6-N	160	54	54	19	46	40	M16	177	M32 x 1.5	212
DFC	10DFC6-C	57	15	18	10	16	13	M3	4	M10 x 1	27
	16DFC6-C	63	20	18	12	18	17	M4	11	M12 x 1	35
	16DFC6-G	75	20	30	12	18	17	M4	11	M12 x 1	35
	16DFC6-H	75	20	30	12	18	17	M4	11	M12 x 1	35
	16DFC6-N	82	32	33	16	18	27	M4	11	M20 x 1	89
	32DFC6-C	63	20	18	12	18	17	M4	11	M12 x 1	35
	32DFC6-G	75	20	30	12	18	17	M4	11	M12 x 1	35
	32DFC6-N	82	32	33	16	18	27	M4	11	M20 x 1	89
	63DFC6-G	96	25	30	14	26	22	M6	22	M16 x 1	62
	100DFC6-H	113	32	33	16	32	27	M8	44	M20 x 1	89
	100DFC6-P	133	38	50	19	32	27	M8	44	M24 x 1	124
DFC	200DFC6-R	165	54	68	19	40	40	M10	71	M27 x 1.5	142
	300DFC6-Q	160	54	54	19	46	40	M16	177	M32 x 1.5	212

Cap. ID	Cap. (nF)	Rated Current (A)	Max. Leakage Current (mA)	Digi-Key Part No.	Price Each 1	25	50	Corcom Part No.
AFC Series								
A	2.2	10	0.21	CCM1796-ND	64.04	58.28	53.48	10AFC6-A
B	4.7	10	0.44	CCM1797-ND	64.14	58.37	53.56	10AFC6-B
	4.7	16	0.44	CCM1798-ND	58.88	53.59	49.17	16AFC6-B
	4.7	32	0.44	CCM1801-ND	59.84	54.46	49.97	32AFC6-B
C	10	32	0.94	CCM1802-ND	60.80	55.33	50.77	32AFC6-C
	10	63	0.94	CCM1794-ND	68.10	61.98	56.87	63AFC6-C
F	33	32	3.1	CCM1844-ND	63.24	57.55	52.81	32AFC6-F
G	47	16	4.4	CCM1799-ND	62.34	56.73	52.06	16AFC6-G
	47	100	4.4	CCM1795-ND	97.26	88.51	81.22	100AFC6-G
H	100	16	9.4	CCM1800-ND	67.20	61.16	56.12	16AFC6-H
	100	32	9.4	CCM1793-ND	69.02	62.81	57.64	32AFC6-H
	100	200	9.4	CCM1803-ND	106.78	97.17	89.17	200AFC6-H
N	470	300	44	CCM1840-ND	299.84	272.86	250.37	300AFC6-N
P	1000	250	94	CCM1839-ND	286.14	260.39	238.93	250AFC6-P
DFC Series								
C	10	10	—	CCM1807-ND	64.14	58.37	53.56	10DFC6-C
	10	16	—	CCM1808-ND	59.16	53.84	49.40	16DFC6-C
	10	32	—	CCM1812-ND	60.06	54.66	50.16	32DFC6-C
G	47	16	—	CCM1809-ND	61.42	55.90	51.29	16DFC6-G
	47	32	—	CCM1813-ND	62.84	57.19	52.48	32DFC6-G
	47	63	—	CCM1804-ND	73.14	66.56	61.08	63DFC6-G
H	100	16	—	CCM1810-ND	62.16	56.57	51.91	16DFC6-H
	100	100	—	CCM1805-ND	102.20	93.01	85.34	100DFC6-H
N	470	16	—	CCM1811-ND	83.46	75.95	69.69	16DFC6-N
	470	32	—	CCM1814-ND	84.52	76.92	70.58	32DFC6-N
P	1000	100	—	CCM1806-ND	122.80	111.75	102.54	100DFC6-P
Q	3300	300	—	CCM1841-ND	246.00	223.86	205.41	300DFC6-Q
R	4700	200	—	CCM1842-ND	156.42	142.35	130.62	200DFC6-R

TUSONIX A Subsidiary of CTS Electronic Components EMI Filters

Digi-Reel®

Note: Please see manufacturer's data sheet for additional information

Circuit	Mounting Style	Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
Pi	Eyelet	1500	410-1052-ND◆	7.80	6.69	5.57	4100-000LF
Pi	Eyelet	1500	410-1053-ND◆	7.96	6.83	5.69	4100-002LF
Pi	Eyelet	3000	410-1054-ND◆	7.96	6.83	5.69	4100-003LF
Pi	PC Mount	5000	410-1055-ND◆	7.24	6.21	5.18	4100-053LF
Pi	Eyelet	1750	410-1056-ND◆	4.52	3.88	3.23	4101-000LF
Pi	Eyelet	1500	410-1057-ND◆	4.67	4.01	3.34	4101-001LF
Pi	Eyelet	1750	410-1058-ND◆	4.62	3.96	3.30	4101-002LF
Pi	Eyelet	1750	410-1059-ND◆	4.62	3.96	3.30	4101-003LF
Pi	Eyelet	1750	410-1060-ND◆	5.68	4.87	4.06	4101-004LF
Pi	Eyelet	3000	410-1061-ND◆	8.19	7.02	5.85	4102-000LF
Pi	Eyelet	3000	410-1062-ND◆	7.80	6.69	5.57	4106-000LF
Pi	Eyelet	4500	410-1063-ND◆	7.80	6.69	5.57	4106-001LF
Pi	Eyelet	22000	410-1064-ND◆	19.44	16.67	13.89	4151-001LF
Pi	Bushing	1500	410-1065-ND◆	11.56	9.91	8.26	4200-000LF
Pi	Bushing	3000	410-1066-ND◆	19.26	16.52	13.76	4200-005LF
Pi	Bushing	1500	410-1067-ND◆	8.79	7.54	6.28	4201-000LF
Pi	Bushing	1500	410-1068-ND◆	8.79	7.54	6.28	4201-001LF
Pi	Bushing	2000	410-1069-ND◆	9.67	8.30	6.91	4201-003LF
Pi	Bushing	5500	410-1070-ND◆	10.26	8.80	7.33	4201-050LF
Pi	Bushing	5500	410-1071-ND◆	10.26	8.80	7.33	4201-051LF
Pi	Bushing	5500	410-1072-ND◆	10.26	8.80	7.33	4201-053LF
Pi	Bushing	1500	410-1073-ND◆	10.85	9.31	7.76	4202-000LF
Pi	Bushing	1500	410-1074-ND◆	10.85	9.31	7.76	4202-001LF
Pi	Bushing	2500	410-1075-ND◆	10.85	9.31	7.76	4202-004LF
Pi	Bushing	1500	410-1076-ND◆	10.85	9.31	7.76	4202-021LF
Pi	Bushing	5000	410-1077-ND◆	10.85	9.31	7.76	4202-053LF
Pi	Bushing	1500	410-1078-ND◆	10.26	8.80	7.33	4203-003LF
Pi	Bushing	5000	410-1079-ND◆	10.26	8.80	7.33	4203-051LF
Pi	Bushing	5000	410-1080-ND◆	10.26	8.80	7.33	4203-053LF
Pi	Bushing	1500	410-1081-ND◆	11.32	9.71	8.09	4204-001LF
Pi	Bushing	5000	410-1082-ND◆	11.32	9.71	8.09	4204-051LF
Pi	Bushing	1500	410-1083-ND◆	9.78	8.39	6.99	4205-001LF
Pi	Bushing	65	410-1084-ND◆	9.78	8.39	6.99	4205-002LF
Pi	Bushing	3000	410-1085-ND◆	14.94	12.81	10.68	4206-001LF
Pi	Bushing	3000	410-1086-ND◆	14.50	12.43	10.36	4206-006LF
Pi	Bushing	1500	410-1087-ND◆	22.56	19.35	16.12	4208-000LF
Pi	Bushing	1500	410-1088-ND◆	9.12	7.82	6.52	4209-003LF
Pi	Bushing	5500	410-1089-ND◆	8.70	7.46	6.22	4209-053LF
Pi	Bushing	15000	410-1090-ND◆	18.50	15.86	13.22	4251-001LF
Pi	Bushing	12000	410-1091-ND◆	17.02	14.59	12.16	4251-002LF
Pi	Bushing	28000	410-1092-ND◆	24.03	20.60	17.17	4251-004LF
Pi	Bushing	25000	410-1093-ND◆	21.36	18.31	15.26	4253-001LF
Pi	Bushing	50000	410-1094-ND◆	40.00	34.29	28.57	4253-002LF
Pi	Bushing	7500	410-1095-ND◆	14.72	12.62	10.52	4260-002LF
Pi	Bushing	5500	410-1096-ND◆	14.72	12.62	10.52	4261-001LF
C	Solder	100	410-1097-ND◆	7.84	6.72	5.60	4300-000LF
C	Solder	500	410-1098-ND◆	8.45	7.24	6.04	4300-001LF
C	Solder	1200	410-1099-ND◆	8.67	7.44	6.20	4300-002LF
C	Solder	2700	410-1100-ND◆	9.43	8.09	6.74	4300-003LF
C	Solder	5000	410-1101-ND◆	11.06	9.49	7.91	4300-004LF
C	Solder	10000	410-1102-ND◆	9.49	8.13	6.78	4300-005LF
C	Solder	15000	410-1103-ND◆	11.21	9.61	8.01	4300-006LF
C	Solder	10	410-1104-ND◆	7.84	6.72	5.60	4300-008LF
C	Solder	25	410-1105-ND◆	7.84	6.72	5.60	4300-009LF
C	Solder	27000	410-1106-ND◆	11.51	9.87	8.23	4300-013LF
C	Solder	50000	410-1107-ND◆	12.16	10.42	8.69	4300-014LF

† Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

TUSONIX EMI Filters *(Cont.)*

Circuit	Mounting Style	Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
C	Solder	100	410-1108-ND◆	7.84	6.72	5.60	4300-020LF
C	Solder	1200	410-1109-ND◆	8.67	7.44	6.20	4300-022LF
C	Solder	5000	410-1110-ND◆	11.06	9.49	7.91	4300-024LF
C	Solder	10000	410-1111-ND◆	9.49	8.13	6.78	4300-025LF
C	Solder	50000	410-1112-ND◆	12.16	10.42	8.69	4300-034LF
C	Solder	5.0	410-1113-ND◆	6.84	5.87	4.89	4300-680LF
C	Solder	5.0	410-1114-ND◆	6.84	5.87	4.89	4300-681LF
C	Press In	10	410-1115-ND◆	12.83	11.01	9.17	4304-000LF
C	Press In	100	410-1116-ND◆	12.83	11.01	9.17	4304-003LF
C	Press In	50000	410-1117-ND◆	20.37	17.47	14.56	4304-011LF
C	Press In	500	410-1118-ND◆	12.32	10.56	8.80	4306-003LF
C	Press In	5000	410-1119-ND◆	13.68	11.73	9.78	4306-004LF
C	Press In	50	410-1120-ND◆	10.82	9.28	7.73	4306-005LF
C	Press In	25	410-1121-ND◆	10.82	9.28	7.73	4306-006LF
C	Press In	250	410-1122-ND◆	10.82	9.28	7.73	4306-007LF
C	Press In	1000	410-1123-ND◆	13.29	11.39	9.49	4306-008LF
C	Press In	1500	410-1124-ND◆	13.69	11.73	9.78	4306-009LF
C	Press In	10000	410-1125-ND◆	14.91	12.78	10.65	4306-010LF
C	Press In	27000	410-1126-ND◆	16.35	14.02	11.68	4306-011LF
C	Press In	5.0	410-1127-ND◆	10.82	9.28	7.73	4306-012LF
C	Press In	10	410-1128-ND◆	19.18	16.44	13.70	4306-013LF
C	Press In	100	410-1129-ND◆	19.18	16.44	13.70	4306-014LF
C	Press In	2700	410-1130-ND◆	23.29	19.96	16.64	4306-015LF
C	Press In	500	410-1131-ND◆	21.84	18.73	15.61	4306-016LF
C	Press In	5000	410-1132-ND◆	24.26	20.79	17.33	4306-017LF
C	Press In	50	410-1133-ND◆	19.67	16.86	14.05	4306-018LF
C	Press In	25	410-1134-ND◆	19.67	16.86	14.05	4306-019LF
C	Press In	250	410-1135-ND◆	19.67	16.86	14.05	4306-020LF
C	Press In	1000	410-1136-ND◆	22.54	19.32	16.10	4306-021LF
C	Press In	1500	410-1137-ND◆	22.54	19.32	16.10	4306-022LF
C	Press In	10000	410-1138-ND◆	26.40	22.64	18.86	4306-023LF
C	Press In	27000	410-1139-ND◆	23.78	20.39	16.99	4306-024LF
C	Press In	5.0	410-1140-ND◆	19.67	16.86	14.05	4306-025LF
C	Press In	10	410-1141-ND◆	10.82	9.28	7.73	4306-028LF
C	Press In	100	410-1142-ND◆	10.82	9.28	7.73	4306-029LF
C	Press In	2700	410-1143-ND◆	13.01	11.16	9.30	4306-030LF
C	Press In	5.0	410-1144-ND◆	9.85	8.45	7.04	4306-680LF
C	Press In	5.0	410-1145-ND◆	20.98	17.99	14.99	4306-681LF
C	Bushing	100	410-1146-ND◆	7.11	6.10	5.08	4400-000LF
C	Bushing	5000	410-1147-ND◆	9.33	8.00	6.67	4400-004LF
C	Bushing	1000	410-1148-ND◆	8.55	7.33	6.11	4400-007LF
C	Bushing	10	410-1149-ND◆	7.11	6.10	5.08	4400-008LF
C	Bushing	27000	410-1150-ND◆	9.26	7.95	6.62	4400-010LF
C	Bushing	100	410-1151-ND◆	7.11	6.10	5.08	4400-030LF
C	Bushing	1200	410-1152-ND◆	8.69	7.45	6.21	4400-032LF
C	Bushing	2700	410-1153-ND◆	8.79	7.54	6.28	4400-033LF
C	Bushing	5000	410-1154-ND◆	10.29	8.83	7.36	4400-034LF
C	Bushing	10000	410-1155-ND◆	9.08	7.79	6.49	4400-035LF
C	Bushing	1000	410-1156-ND◆	7.11	6.10	5.08	4400-037LF
C	Bushing	10	410-1157-ND◆	7.11	6.10	5.08	4400-038LF
C	Bushing	25	410-1158-ND◆	8.20	7.04	5.86	4400-039LF
L	Bushing	50000	410-1159-ND◆	10.96	9.40	7.83	4400-057LF
L	Bushing	27000	410-1160-ND◆	10.55	9.05	7.54	4400-060LF
C	Bushing	100	410-1161-ND◆	7.11	6.10	5.08	4400-076LF
C	Bushing	10000	410-1162-ND◆	9.24	7.92	6.60	4400-089LF
C	Bushing	1000	410-1163-ND◆	7.90	6.78	5.65	4400-091LF
C	Bushing	10000	410-1164-ND◆	9.59	8.22	6.85	4400-093LF
C	Bushing	4700	410-1165-ND◆	10.14	8.70	7.25	4400-094LF
C	Bushing	1000	410-1166-ND◆	7.11	6.10	5.08	4400-095LF
C	Bushing	470	410-1167-ND◆	7.11	6.10	5.08	4400-096LF
C	Bushing	2700	410-1168-ND◆	8.66	7.42	6.19	4400-097LF
C	Bushing	27000	410-1169-ND◆	10.55	9.05	7.54	4400-098LF
C	Bushing	50000	410-1170-ND◆	10.96	9.40	7.83	4400-099LF
C	Bushing	5.0	410-1171-ND◆	6.14	5.26	4.39	4400-680LF
C	Bushing	5.0	410-1172-ND◆	6.14	5.26	4.39	4400-683LF
C	Bushing	100	410-1173-ND◆	9.45	8.10	6.75	4401-000LF
C	Bushing	100	410-1174-ND◆	9.67	8.30	6.91	4401-014LF
C	Bushing	100000	410-1175-ND◆	11.03	9.46	7.88	4402-018LF
C	Bushing	100	410-1176-ND◆	7.70	6.61	5.51	4403-030LF
C	Bushing	2700	410-1177-ND◆	9.00	7.71	6.43	4403-033LF
C	Bushing	10000	410-1178-ND◆	10.69	9.16	7.64	4403-035LF
C	Bushing	1000	410-1179-ND◆	8.52	7.31	6.09	4403-037LF
C	Bushing	25	410-1180-ND◆	7.70	6.61	5.51	4403-039LF
C	Bushing	27000	410-1181-ND◆	10.48	8.99	7.49	4403-040LF
C	Bushing	100000	410-1182-ND◆	14.16	12.14	10.12	4404-003LF
C	Coaxial	1400000	410-1183-ND◆	22.27	19.10	15.91	4600-000LF
C	Coaxial	150000	410-1184-ND◆	30.47	26.12	21.77	4600-009LF
L	Coaxial	1400000	410-1185-ND◆	22.79	19.54	16.28	4600-050LF
L	Coaxial	1400000	410-1186-ND◆	48.62	41.68	34.73	4600-053LF
L	Coaxial	1400000	410-1187-ND◆	46.02	39.45	32.87	4600-054LF
C	Coaxial	1400000	410-1188-ND◆	30.41	26.07	21.72	4601-000LF
L	Coaxial	1400000	410-1189-ND◆	31.30	26.83	22.36	4601-050LF
L	Coaxial	1400000	410-1190-ND◆	33.13	28.40	23.67	4601-052LF
L	Coaxial	1400000	410-1191-ND◆	54.54	46.76	38.96	4601-053LF
L	Coaxial	1400000	410-1192-ND◆	55.36	47.46	39.55	4601-054LF
Pi	SMT Square	2000	410-1193-1-ND†◆	2.30	1.98	1.65	4700-003LF
Pi	SMT Square	2000	410-1193-2-ND‡◆		1908.20/2,000		4700-003LF
Pi	SMT Square	1000	410-1194-1-ND†◆	2.30	1.98	1.65	4700-005LF
Pi	SMT Square	1000	410-1194-2-ND‡◆		1908.20/2,000		4700-005LF
Pi	SMT Square	100	410-1195-1-ND†◆	2.30	1.98	1.65	4700-006LF
Pi	SMT Square	100	410-1195-2-ND‡◆		1908.20/2,000		4700-006LF
Pi	SMT Square	4000	410-1196-1-ND†◆	2.30	1.98	1.65	4700-008LF
Pi	SMT Square	4000	410-1196-2-ND‡◆		1908.20/2,000		4700-008LF
Pi	SMT Square	470	410-1197-1-ND†◆	2.42	2.07	1.73	4700-009LF
Pi	SMT Square	470	410-1197-2-ND‡◆		2001.00/2,000		4700-009LF
Pi	SMT Round	5000	410-1198-1-ND†◆	2.42	2.07	1.73	4700-056LF
Pi	SMT Round	5000	410-1198-2-ND‡◆		2001.00/2,000		4700-056LF
Pi	SMT Square	8200	410-1199-1-ND†◆	2.32	2.00	1.66	4701-001LF
Pi	SMT Square	8200	410-1199-2-ND‡◆		1925.60/2,000		4701-001LF
Pi	SMT Square	6800	410-1200-1-ND†◆	2.32	2.00	1.66	4701-002LF
Pi	SMT Square	6800	410-1200-2-ND‡◆		1925.60/2,000		4701-002LF
C	SMT Square	100	410-1201-1-ND†◆	2.49	2.14	1.78	4702-000LF
C	SMT Square	100	410-1201-2-ND‡◆		2061.90/2,000		4702-000LF
C	SMT Square	4000	410-1202-1-ND†◆	2.49	2.14	1.78	4702-005LF
C	SMT Square	4000	410-1202-2-ND‡◆		2061.90/2,000		4702-005LF
Pi	Bushing	2500	410-1228-ND	13.69	11.74	9.78	M15733/28-0001
Pi	Bushing	1500	410-1229-ND	14.49	12.42	10.35	M15733/28-0002
Pi	Bushing	15000	410-1230-ND	17.93	15.37	12.81	M15733/28-0003
Pi	Eyelet	1750	410-1231-ND	8.39	7.19	5.99	M15733/33-0001
Pi	Eyelet	1750	410-1232-ND	8.39	7.19	5.99	M15733/33-0002
L	Bushing	1400000	410-1233-ND	48.78	41.82	34.85	M15733/38-0004
L	Bushing	1400000	410-1234-ND	48.78	41.82	34.85	M15733/38-0005
Pi	Bushing	1500	410-1235-ND	20.07	17.21	14.34	M15733/43-0001
Pi	Bushing	1500	410-1236-ND	14.57	12.49	10.41	M15733/43-0002
Pi	Bushing	3000	410-1237-ND	23.42	20.08	16.73	M15733/44-0001
Pi	Bushing	1500	410-1238-ND	17.01	14.59	12.16	M15733/44-0002
Pi	Bushing	65	410-1239-ND	17.01	14.59	12.16	M15733/44-0003
L	Bushing	680000	410-1240-ND	40.96	35.11	29.26	M15733/49-0001
L	Bushing	1.2 ~ 2.4µF	410-1241-ND	48.78	41.82	34.85	M15733/49-0006
Pi	Eyelet	5500	410-1242-ND	9.51	8.16	6.80	M15733/51-0001
Pi	Eyelet	22000	410-1243-ND	29.26	25.08	20.90	M15733/51-0002
Pi	Bushing	1500	410-1244-ND	17.64	15.12	12.60	M15733/61-0001
Pi	Bushing	1500	410-1245-ND	16.87	14.46	12.05	M15733/61-0002
Pi	Bushing	2000	410-1246-ND	27.28	23.39	19.49	M15733/61-0003
Pi	Bushing	2000	410-1247-ND	27.89	23.91	19.92	M15733/61-0004
Pi	Bushing	1500	410-1248-ND	15.88	13.61	11.34	M15733/61-0005
Pi	Bushing	1500	410-1249-ND	15.96	13.68	11.40	M15733/61-0006
Pi	Bushing	5000	410-1250-ND	16.79	14.40	12.00	M15733/61-0007
Pi	Bushing	1000	410-1251-ND	28.79	24.68	20.57	M15733/61-0008
Pi	Bushing	5000	410-1252-ND	16.79	14.40	12.00	M15733/61-0010
Pi	Bushing	5000	410-1253-ND	16.79	14.40	12.00	M15733/61-0011
Pi	Bushing	25000	410-1254-ND	43.04	36.90	30.75	M15733/61-0012
Pi	Bushing	10000	410-1255-ND	23.42	20.08	16.73	M15733/61-0014
Pi	Eyelet	1500	410-1256-ND	8.91	7.64	6.37	M15733/62-0001
Pi	Eyelet	1500	410-1257-ND	19.29	16.54	13.78	M15733/62-0002
Pi	Eyelet	1750	410-1258-ND	9.08	7.79	6.49	M15733/66-0001

† Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

Feed-Thru Capacitors

Note: Please see manufacturer's data sheet for additional information

Temp. Coef.	Mounting Style	Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
X5U	Solder	100	410-1048-ND	7.86	6.74	5.62	2482-012-X5U0-101MLF
	Solder	1000	410-1032-ND	4.96	4.25	3.54	2404-000-X5U0-102PLF
	Solder	1000	410-1033-ND	3.24	2.79	2.32	2404-014-X5U0-102PLF
	Solder	1000	410-1041-ND	6.79	5.82	4.85	2450-001-X5U0-102PLF
	Solder	1000	410-1042-ND	6.79	5.82	4.85	2451-001-X5U0-102PLF
	Bushing	100	410-1034-ND	11.65	9.99	8.33	2425-001-X5U0-101AALF
	Bushing	1000	410-1035-ND	11.65	9.99	8.33	2425-001-X5U0-102AALF
	Bushing	1500	410-1036-ND	11.65	9.99	8.33	2425-001-X5U0-152AALF
X5W	Bushing	5000	410-1037-ND	11.65	9.99	8.33	2425-001-X5W0-502AALF
	Bushing	5000	410-1040-ND	13.45	11.53	9.61	2443-007-X5W0-502ZLF
	Bushing	10000	410-1038-ND	9.54	8.19	6.82	2425-601-X5W0-103ZLF
	Bushing	10000	410-1051-ND	10.38	8.90	7.42	2499-003-X5W0-103ZLF
X5S	Shoulder	470	410-1047-ND	2.72	2.34	1.95	2463-001-X5S0-471MLF
	Bushing	1000	410-1039-ND	13.45	11.53	9.61	2443-007-X5S0-102MLF
	Bushing	1000	410-1049-ND	10.99	9.42	7.85	2499-003-X5S0-102MLF
	Bushing	1500	410-1050-ND	10.99	9.42	7.85	2499-003-X5S0-152MLF
X7V	Shoulder	1000	410-1043-ND	2.65	2.28	1.90	2461-000-X7V0-102PLF
	Shoulder	1000	410-1045-ND	4.82	4.14	3.45	2461-001-X7V0-102PLF
	Shoulder	1500	410-1044-ND	4.25	3.65	3.04	2461-000-X7V0-152PLF
	Shoulder	1500	410-1046-ND	4.82	4.14	3.45	2461-001-X7V0-152PLF

TDK

Flexield® Noise Suppression Sheets - Flexible Ferrite Material

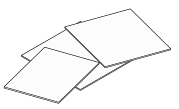

Flexield is an absorptive electromagnetic shielding material consisting of magnetic material and resin. It suppresses noise radiated from electronic equipment over a wide range of frequencies, offers flexibility in fabrication, and delivers particularly excellent performance in high frequency ranges. Flexield is the ideal sheet-type noise reduction product for mobile devices including notebook PCs, digital cameras, and cell phones.

Features: • Flexible-will not crack • Well suited for thin and compact devices • Support a wide range of frequency bands • Excellent performance at high frequencies

Applications: • Electromagnetic noise reduction for electric equipment • Internal EMI • Resonance reduction • Amplifier • Radiated noise reduction • Surface current suppression • Improvement of noise immunity • Electrostatic discharge countermeasure • Improved antenna reception sensitivity

L x W x T (mm)	Suggested Frequency Range MHz/GHz	Material Name	Minimum Initial Permeability (ui)@10MHz	Digi-Key Part No.	Price Each 1	10	TDK Part No.
Operating Temperature Range -40°C ~ 85°C							
300 x 200 x .1	—	IFL04	45‡	445-3717-ND	43.75	37.50	IFL04AR 300X200XP1
300 x 200 x .13	10/3	IRJ09	100‡	445-3715-ND	58.33	50.00	IRJ09AB 300X200X0.13
300 x 200 x .25	10/3	IRJ09	100‡	445-3716-ND	72.92	62.50	IRJ09AB 300X200X0.25
300 x 200 x .5	100/10	IRL03	25	445-2581-ND	52.50	45.00	IRL03AB 300X200X0.5
200 x 200 x 1	100/10	IRL02	25	445-2582-ND	43.75	37.50	IRL02A 200X200X1
200 x 200 x 2	100/10	IRL02	25‡	445-3718-ND	93.33	80.00	IRL02A 200X200X2
300 x 200 x .25	50/10	IRL04	35	445-2584-ND	52.50	45.00	IRL04EAB 300X200X0.25
300 x 200 x .5	50/10	IRL04	35	445-2585-ND	66.50	57.00	IRL04EAB 300X200X0.5
300 x 200 x .1	30/10	IRL05	60	445-2586-ND	78.75	67.50	IRL05AB 300X200X0.1
Operating Temperature Range -40°C ~ 125°C							
300 x 200 x .25	50/10	IRJ04	35	445-2587-ND	66.50	57.00	IRJ04AB 300X200X0.25

‡ Typical, @1MHz

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK

Ferrite Beads / SMD

MMZ – Digital Signal Line Application **MPZ** – Power Supply Line Application

MATERIAL CHARACTERISTICS:

A Material: This high-impedance product is based on the impedance frequency characteristics of our Y-material. The product offers excellent impedance characteristics, which is greater than 2500Ω, in the vicinity of 100MHz range (MMZ1608A252B).

B Material: This type is perfectly suited for fast digital signals. By equalizing R components and X components that beads possess at a frequency of 5MHz, it is able to suppress overshooting, undershooting and ringing of fast digital signals.

D Material: For applications calling for low insertion loss at low frequencies and sharply increasing impedance at high frequencies. Designed for high impedance at high frequencies (200 ~ 500MHz) for signal line applications.

F Material: This new product inherits the characteristic of the D Material, namely its sharp impedance rise time, and its impedance peak frequency has been shifted higher into range. The product offers excellent noise suppression from 600MHz to as high as in the GHz range.

R Material: For digital signal line applications.

S Material: For signal line applications in which the blocking region is near 100MHz.

Y Material: High frequency range type intended for the 100MHz region and above. For signal line applications in which the signal frequency is far from the cutoff frequency.

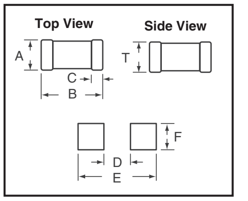

Series	Dimensions - mm						
	A	B	C	D	E	F	T
MMZ0603	0.3	0.6	—	0.3	0.8	0.3	0.3
MMZ1005	0.5	1	0.1	0.4	1.4	0.5	0.5
MPZ1005	0.5	1	0.1	0.4	1.4	0.5	0.5
MMZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.8
MMZ1608-C	0.8	1.6	0.3	0.8	2.0	0.8	0.6
MPZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.6*
MMZ2012	1.25	2	0.5	1	2.6	1.2	0.85
MPZ2012	1.25	2	0.5	1	2.6	1.2	0.85

* 220Ω, 330Ω, 470Ω and 600Ω = 0.8

Imp. 100MHz (Ω)±25%	Rdc Max. (Ω)	I Max. (A)	Material	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		TDK Part No.
					10	50	100	Qty.	Pricing	
MMZ0603 Series — 0201 Size										
10	0.12	.500	S	445-2141-1-ND§	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S100C
80	0.37	.200	S	445-2142-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S800C
120	0.45	.200	S	445-2143-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S121C
240	0.75	.200	S	445-2144-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S241C
470	1.30	.100	S	445-2145-1-ND	1.40	6.05	11.16	15,000	65.00/M	MMZ0603S471C
600	1.45	.100	S	445-2146-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S601C
120	0.75	.200	Y	445-2147-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y121C
240	0.85	.100	Y	445-2148-1-ND	1.40	6.05	11.16	—	—	MMZ0603Y241C
470	1.40	.050	Y	445-2149-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y471C
33	0.85	.100	D	445-2140-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603D330C
56	1.05	.100	D	445-3332-1-ND	1.36	5.88	10.86	15,000	63.00/M	MMZ0603D560C
80	1.40	.100	D	445-3333-1-ND	1.36	5.88	10.86	—	—	MMZ0603D800C
10	0.60	.200	F	445-3334-1-ND§	1.36	5.88	10.86	15,000	63.00/M	MMZ0603F100C
MMZ1005 Series — 0402 Size										
80	0.20	.450	B	445-3335-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B800C
120	0.25	.400	B	445-3336-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B121C
600	0.85	.200	B	445-3337-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B601C
80	0.20	.500	S	445-2159-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S800C
120	0.25	.500	S	445-2160-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S121C
240	0.40	.400	S	445-2161-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S241C
600	0.60	.300	S	445-2162-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S601C
1000	1.00	.200	S	445-2163-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S102C
40	0.12	.550	Y	445-2150-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y400C
80	0.17	.450	Y	445-2151-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y800C
120	0.21	.400	Y	445-2152-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y121C
240	0.33	.300	Y	445-2153-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y241C
300	0.38	.250	Y	445-2154-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y301C
470	0.50	.250	Y	445-2155-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y471C
600	0.56	.250	Y	445-2156-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y601C
1000	0.74	.200	Y	445-2157-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y102C
1500	1.15	.100	Y	445-2158-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y152C
22	0.35	.400	D	445-3339-1-ND	.57	2.47	4.57	—	—	MMZ1005D220C
33	0.55	.400	D	445-3340-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D330C
68	0.75	.400	D	445-3341-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D680C
120	1.20	.350	D	445-3342-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D121C
240	0.60	.200	D	445-3343-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D241C
33	0.80	.200	F	445-3344-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F330C
47	0.80	.100	F	445-3345-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F470C
56	0.20	.100	F	445-3346-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F560C
MPZ1005 Series — 0402 Size										
10	0.045	2.0	S	445-2978-1-ND§	.60	2.62	4.83	10,000	28.00/M	MPZ1005S100C
30	0.050	1.7	S	445-2979-1-ND▲	.60	2.62	4.83	10,000	28.00/M	MPZ1005S300C
60	0.075	1.5	S	445-2980-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S600C
120	0.090	1.2	S	445-2981-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S121C
NEW! MMZ1005-E Series — 0402 Size NEW!										
600	0.70	.300	S	445-5194-1-ND	1.73	7.48	13.80	10,000	81.00/M	MMZ1005S601E
1000	1.10	.250	S	445-5195-1-ND	1.73	7.48	13.80	10,000	81.00/M	MMZ1005S102E
600	0.85	.300	A	445-5196-1-ND	1.73	7.48	13.80	10,000	81.00/M	MMZ1005A601E
1000	1.25	.250	A	445-5197-1-ND	1.73	7.48	13.80	10,000	81.00/M	MMZ1005A102E
1800	2.20	.200	A	445-5198-1-ND	1.73	7.48	13.80	10,000	81.00/M	MMZ1005A182E
MMZ1608 Series — 0603 Size										
15	0.05	1.5	R	445-2180-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R150A
30	0.05	1.5	R	445-2181-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R300A
60	0.10	.800	R	445-2182-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R600A
120	0.18	.500	R	445-2170-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R121A
300	0.25	.500	R	445-2171-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R301A
600	0.40	.500	R	445-1547-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R601A
1000	0.50	.400	R	445-1548-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R102A
40	0.10	.600	S	445-2183-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S400A
80	0.15	.500	S	445-2172-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S800A
120	0.20	.500	S	445-2173-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S121A
180	0.20	.500	S	445-2174-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S181A
300	0.30	.500	S	445-2175-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S301A
600	0.40	.500	S	445-1549-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S601A
1000	0.50	.400	S	445-1550-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S102A
15	0.05	1.5	Y	445-2184-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y150B
30	0.05	1.5	Y	445-2185-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y300B
60	0.15	.500	Y	445-2186-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y600B
120	0.20	.500	Y	445-2176-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y121B
300	0.30	.500	Y	445-2177-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y301B
600	0.40	.500	Y	445-1551-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y601B
1000	0.50	.400	Y	445-1552-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y102B
1500	0.60	.300	Y	445-1553-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y152B
1500	1.0	.300	A	445-2178-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A152E
2500	0.80	.200	A	445-2179-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A252B
80	0.35	.500	D	445-2167-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D800B
120	0.45	.400	D	445-2168-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D121B
300	0.70	.300	D	445-2169-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D301B
MMZ1608-C Series — 0603 Size										
120	0.15	.600	B	445-2164-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B121C
300	0.25	.500	B	445-2165-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B301C
600	0.40	.500	B	445-2166-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B601C
MPZ1608 Series — 0603 Size										
470	0.150	1.0	B	445-5218-1-ND✔	.54	2.36	4.35	4,000	25.38/M	MPZ1608B471A
30	0.010	5.0	S	445-1562-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S300A
60	0.020	3.5	S	445-1563-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S600A
100	0.030	3.0	S	445-1564-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S101A
120	0.045	2.0	S	445-5219-1-ND✔	.54	4.35	4.35	4,000	25.38/M	MPZ1608S121A
180	0.050	2.0	S	445-5220-1-ND✔	.54	2.36	4.35	4,000	25.38/M	MPZ1608S181A
220	0.050	2.0	S	445-1565-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S221A
330	0.080	1.7	S	445-5221-1-ND✔	.54	2.36	4.35	4,000	25.38/M	MPZ1608S331A
390	0.120	1.2	R	445-2982-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608R391A
470	0.150	1.0	S	445-5222-1-ND✔	.54	2.36	4.35	4,000	25.38/M	MPZ1608S471A
600	0.150	1.0	S	445-2205-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S601A
60	0.030	2.3	Y	445-2983-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y600B
100	0.040	2.0	Y	445-2984-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y101B
150	0.050	1.8	Y	445-2985-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y151B
30	0.060	1.8	D	445-2986-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D300B
60	0.100	1.2	D	445-2987-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D600B
100	0.150	1.0	D	445-2988-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D101B
MMZ2012 Series — 0805 Size										
15	0.05	1.5	R	445-2198-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R150A
30	0.05	1.5	R	445-2199-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R300A
60	0.1	1.0	R	445-2200-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R600A
120	0.12	.800	R	445-2190-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R121A
300	0.15	.600	R	445-2191-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R301A
600	0.2	.500	R	445-1554-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R601A
1000	0.3	.500	R	445-1555-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R102A
40	0.1	1.0	S	445-2201-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S400A
80	0.1	.800	S	445-2192-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S800A
120	0.15	.800	S	445-2193-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S121A
180	0.15	.600	S	445-2194-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S181A
300	0.2	.600	S	445-2195-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S301A
600	0.3	.500	S	445-1556-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S601A
1000	0.35	.500	S	445-1557-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S102A
15	0.05	1.5	Y	445-2202-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y150B
30	0.05	1.5	Y	445-2203-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y300B
60	0.1	1.0	Y	445-2204-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y600B
120	0.12	.800	Y	445-2196-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y121B
300	0.15	.600	Y	445-2197-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y301B
600	0.2	.500	Y	445-1558-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y601B
1000	0.3	.500	Y	445-1559-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y102B
1500	0.4	.500	Y	445-1560-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y152B
2000	0.5	.400	Y	445-1561-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y202B
80	0.3	.500	D	445-2187-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D800B
120	0.3	.500	D	445-2188-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D121B
300	0.5	.400	D	445-2189-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D301B
MPZ2012 Series — 0805 Size										
30	0.01	6.0	S	445-1566-1-ND▲	.67	2.89	5.34	4,000	31.15/M	MPZ2012S300A
100	0.02	4.0	S	445-1567-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S101A
220	0.04	3.0	S	445-1568-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S221A
330	0.05	2.5	S	445-1569-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S331A
600	0.1	2.0	S	445-2206-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S601A
1000	0.15	1.5	S	445-5223-1-ND✔	.69	2.97	5.49	4,000	32.03/M	MPZ2012S102A

✔ ***NEW!*** ‡ For Tape and Reel part number, change 1-ND to 2-ND. § Impedance tolerance is ±5Ω
▲ Impedance tolerance is ±10Ω

Chip Beads (SMD Array)

MZA3216 Series

Features: • A single MZA series chip provides noise attenuation for four lines, making it ideal for use with I/O lines of various highly miniaturized devices • Low crosstalk between adjacent circuits • Internal electrodes feature low DC resistance, minimizing wasteful power consumption • Electroplated terminal electrodes accommodate reflow soldering • Monolithic structure ensures high reliability • Contains no lead and also supports lead-free soldering
Operating Temperature Range: -55°C ~ 125°C

Applications: • Computers • Printers • VCRs • Televisions • Portable telephones • Electronic equipment, such as portable products, which comprise high density circuitry

S Material: For signal line applications in which the blocking region is near 100MHz.

Y Material: High frequency range type intended for the 100MHz region and above. For signal line applications in which the signal frequency is far from the cutoff frequency.

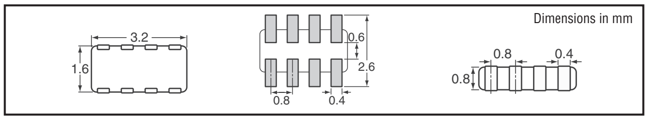

Imp. 100MHz (Ω)±25%	Rdc Max. (Ω)	I Max. (A)	Material	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing‡ 4,000	TDK Part No.
					10	50	100		
60	0.2	0.30	S	445-3347-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S600A
120	0.2	0.25	S	445-3348-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S121A
300	0.4	0.20	S	445-3349-1-ND	4.13	17.88	33.00	—	MZA3216S301A
600	0.5	0.20	S	445-3350-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S601A
60	0.2	0.30	Y	445-3351-1-ND	4.13	17.88	33.00	—	MZA3216Y600B
120	0.2	0.25	Y	445-3377-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y121B
240	0.3	0.20	Y	445-3352-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y241B
300	0.4	0.20	Y	445-3378-1-ND	4.13	17.88	33.00	—	MZA3216Y301B
600	0.5	0.20	Y	445-3379-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y601B
1000	0.6	0.15	Y	445-3380-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y102B

‡ For Tape and Reel part number, change 1-ND to 2-ND.

TDK

NEW! Chip Beads (SMD Array) For Audio / USB1.1 Signal Line

MCZ Series

Dimensions in mm

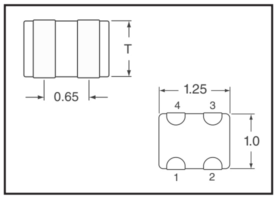

This is a common type bead product that removes the noise components in a signal line and includes beads for two lines in a single chip. The product exhibits substantial impedance characteristics in the high frequency range and is therefore capable of effectively removing differential mode noises. Additionally, an appropriate amount of magnetic coupling is created between the beads of the two lines, giving the product the capability to remove not only differential mode noise but common mode noise as well.

Operating Temperature Range: -40°C ~ 85°C

Applications: • Audio signal lines used in cell phones and mobile audio devices • Personal computers and peripheral equipment • PDA • Digital camera

Imp. 100MHz (Ω)±25%	Rdc Max. (Ω)	Idc Max. (A)	T Dim. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape and Reel Pricing‡ 4,000	TDK Part No.
1000	0.75	.050	0.85	445-5224-1-ND	5.85	25.35	46.80	273.00/M	MCZ1210AD102T
220	0.3	.350	0.85	445-5225-1-ND	5.85	25.35	46.80	273.00/M	MCZ1210AD221T
120	0.2	.500	0.5	445-5226-1-ND	5.85	25.35	46.80	273.00/M	MCZ1210AD121T002
90	0.2	.500	0.5	445-5227-1-ND	5.85	25.35	46.80	273.00/M	MCZ1210AD900T002

‡ For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line and DC Power Line / SMD

ACF and ACH Series

Features: • The ACF and ACH series are T-type EMC filters incorporating ferrite chip beads and multilayer ceramic chip capacitors. • The external structure consists entirely of ferrite, enabling these parts to achieve superior attenuation characteristics despite their extremely compact dimensions. • Because they can be mounted on edge, the ACF and ACH series are ideal for high-density circuit configurations.

Dimensions in mm

Fig. 1 — ACF321825, ACF451832, ACH3218 and ACH4518 Series

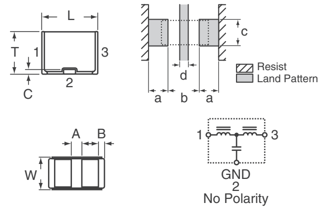

Series	T	L	A	B	C	W	a	b	c	d
	Dimensions (mm)									
ACF321825	2.5	3.2	0.6	.35	0.3	1.8	1.4	2.2	1.94	0.6
ACF451832	3.2	4.5	1	.35	0.4	1.8	1.75	3.5	1.94	1
ACH3218	2.5	3.2	0.6	.35	0.3	1.8	1.4	2.2	1.94	0.6
ACH4518	3.2	4.5	1	.35	0.4	1.8	1.75	3.5	1.94	1

Fig. 2 — ACH32C Series

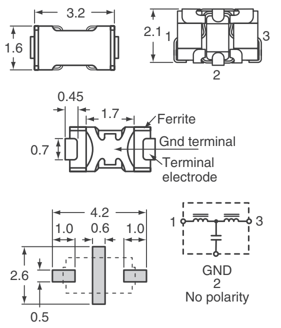

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 1,000	TDK Part No.
Fig. 1 — ACF321825 Series, Operating Temperature -25°C ~ 85°C								
17	0.3	0.15	445-2059-1-ND	.51	4.38	20.22	235.95	ACF321825-223-TD01
27	0.3	0.15	445-2060-1-ND	.51	4.38	20.22	235.95	ACF321825-103-TD01
37	0.3	0.15	445-2061-1-ND	.51	4.38	20.22	235.95	ACF321825-682-TD01
45	0.3	0.15	445-2062-1-ND	.51	4.38	20.22	235.95	ACF321825-472-TD01
55	0.3	0.15	445-2063-1-ND	.51	4.38	20.22	235.95	ACF321825-332-TD01
65	0.3	0.15	445-2064-1-ND	.51	4.38	20.22	235.95	ACF321825-222-TD01
80	0.3	0.15	445-2065-1-ND	.51	4.38	20.22	235.95	ACF321825-152-TD01
100	0.3	0.15	445-2066-1-ND	.51	4.38	20.22	235.95	ACF321825-102-TD01
120	0.3	0.15	445-2067-1-ND	.51	4.38	20.22	235.95	ACF321825-681-TD01
145	0.3	0.15	445-2068-1-ND	.51	4.38	20.22	235.95	ACF321825-471-TD01
165	0.3	0.15	445-2069-1-ND	.51	4.38	20.22	235.95	ACF321825-331-TD01
200	0.3	0.15	445-2070-1-ND	.51	4.38	20.22	235.95	ACF321825-221-TD01
240	0.3	0.15	445-2071-1-ND	.51	4.38	20.22	235.95	ACF321825-151-TD01
300	0.3	0.15	445-2072-1-ND	.51	4.38	20.22	235.95	ACF321825-101-TD01
370	0.3	0.15	445-2073-1-ND	.51	4.38	20.22	235.95	ACF321825-680-TD01
450	0.3	0.15	445-2074-1-ND	.51	4.38	20.22	235.95	ACF321825-470-TD01
530	0.3	0.15	445-2075-1-ND	.51	4.38	20.22	235.95	ACF321825-330-TD01
650	0.3	0.15	445-2076-1-ND	.51	4.38	20.22	235.95	ACF321825-220-TD01
Fig. 1 — ACF451832 Series, Operating Temperature -25°C ~ 85°C								
12	0.3	0.15	445-2077-1-ND	.61	5.26	24.27	283.15	ACF451832-333-TD01
15	0.3	0.15	445-2078-1-ND	.61	5.26	24.27	283.15	ACF451832-223-TD01
18	0.3	0.15	445-2079-1-ND	.61	5.26	24.27	283.15	ACF451832-153-TD01
23	0.3	0.15	445-2080-1-ND	.61	5.26	24.27	283.15	ACF451832-103-TD01
35	0.3	0.15	445-2081-1-ND	.61	5.26	24.27	283.15	ACF451832-682-TD01
40	0.3	0.15	445-2082-1-ND	.61	5.26	24.27	283.15	ACF451832-472-TD01
50	0.3	0.15	445-2083-1-ND	.61	5.26	24.27	283.15	ACF451832-332-TD01
60	0.3	0.15	445-2084-1-ND	.61	5.26	24.27	283.15	ACF451832-222-TD01
75	0.3	0.15	445-2085-1-ND	.61	5.26	24.27	283.15	ACF451832-152-TD01
90	0.3	0.15	445-2086-1-ND	.61	5.26	24.27	283.15	ACF451832-102-TD01
105	0.3	0.15	445-2087-1-ND	.61	5.26	24.27	283.15	ACF451832-681-TD01
125	0.3	0.15	445-2088-1-ND	.61	5.26	24.27	283.15	ACF451832-471-TD01
150	0.3	0.15	445-2089-1-ND	.61	5.26	24.27	283.15	ACF451832-331-TD01
190	0.3	0.15	445-2090-1-ND	.61	5.26	24.27	283.15	ACF451832-221-TD01
230	0.3	0.15	445-2091-1-ND	.61	5.26	24.27	283.15	ACF451832-151-TD01
280	0.3	0.15	445-2092-1-ND	.61	5.26	24.27	283.15	ACF451832-101-TD01
410	0.3	0.15	445-2094-1-ND	.61	5.26	24.27	—	ACF451832-470-TD01
500	0.3	0.15	445-2095-1-ND	.61	5.26	24.27	283.15	ACF451832-330-TD01
600	0.3	0.15	445-2096-1-ND	.61	5.26	24.27	283.15	ACF451832-220-TD01
Fig. 1 — ACH3218 Series, Operating Temperature -25°C ~ 85°C								
17	1.5	0.06	445-2097-1-ND	.51	4.38	20.22	235.95	ACH3218-223-TD01
27	1.5	0.06	445-2098-1-ND	.51	4.38	20.22	235.95	ACH3218-103-TD01
37	1.5	0.06	445-2099-1-ND	.51	4.38	20.22	235.95	ACH3218-682-TD01
45	1.5	0.06	445-2100-1-ND	.51	4.38	20.22	235.95	ACH3218-472-TD01
65	1.5	0.06	445-2102-1-ND	.51	4.38	20.22	235.95	ACH3218-222-TD01
80	1.5	0.06	445-2103-1-ND	.51	4.38	20.22	—	ACH3218-152-TD01
100	1.5	0.06	445-2104-1-ND	.51	4.38	20.22	235.95	ACH3218-102-TD01
120	1.5	0.06	445-2105-1-ND	.51	4.38	20.22	235.95	ACH3218-681-TD01
145	1.5	0.06	445-2106-1-ND	.51	4.38	20.22	235.95	ACH3218-471-TD01
165	1.5	0.06	445-2107-1-ND	.51	4.38	20.22	235.95	ACH3218-331-TD01
240	1.5	0.06	445-2109-1-ND	.51	4.38	20.22	236.00	ACH3218-151-TD01
300	1.5	0.06	445-2110-1-ND	.51	4.38	20.22	235.95	ACH3218-101-TD01
370	1.5	0.06	445-2111-1-ND	.51	4.38	20.22	235.95	ACH3218-680-TD01
450	1.5	0.06	445-2112-1-ND	.51	4.38	20.22	235.95	ACH3218-470-TD01
530	1.5	0.06	445-2113-1-ND	.51	4.38	20.22	236.00	ACH3218-330-TD01
Fig. 1 — ACH4518 Series, Operating Temperature -25°C ~ 85°C								
12	2	0.04	445-2115-1-ND	.61	5.26	24.27	283.15	ACH4518-333-TD01
15	2	0.04	445-2116-1-ND	.61	5.26	24.27	283.15	ACH4518-223-TD01
18	2	0.04	445-2117-1-ND	.61	5.26	24.27	283.15	ACH4518-153-TD01
23	2	0.04	445-2118-1-ND	.61	5.26	24.27	283.15	ACH4518-103-TD01
35	2	0.04	445-2119-1-ND	.61	5.26	24.27	283.15	ACH4518-682-TD01
50	2	0.04	445-2121-1-ND	.61	5.26	24.27	283.15	ACH4518-332-TD01
60	2	0.04	445-2122-1-ND	.61	5.26	24.27	283.15	ACH4518-222-TD01
75	2	0.04	445-2123-1-ND	.61	5.26	24.27	283.15	ACH4518-152-TD01
90	2	0.04	445-2124-1-ND	.61	5.26	24.27	283.15	ACH4518-102-TD01
105	2	0.04	445-2125-1-ND	.61	5.26	24.27	283.15	ACH4518-681-TD01
125	2	0.04	445-2126-1-ND	.61	5.26	24.27	283.15	ACH4518-471-TD01
190	2	0.04	445-2128-1-ND	.61	5.26	24.27	283.15	ACH4518-221-TD01
230	2	0.04	445-2129-1-ND	.61	5.26	24.27	—	ACH4518-151-TD01
280	2	0.04	445-2130-1-ND	.61	5.26	24.27	283.15	ACH4518-101-TD01
340	2	0.04	445-2131-1-ND	.61	5.26	24.27	283.15	ACH4518-680-TD01
410	2	0.04	445-2132-1-ND	.61	5.26	24.27	283.00	ACH4518-470-TD01
500	2	0.04	445-2133-1-ND	.61	5.26	24.27	283.15	ACH4518-330-TD01
600	2	0.04	445-2134-1-ND	.61	5.26	24.27	283.15	ACH4518-220-TD01

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Guaranteed Frequency Bandwidth (MHz)	Guaranteed Attenuation (dB)	I Max. (A)	Rdc Max. (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 2,000	TDK Part No.
Fig. 2 — ACH32C Series, Operating Temperature -40°C ~ 125°C									
3.5 ~ 150	-25	6	2	445-2998-1-ND	.56	4.88	22.52	263.00/M	ACH32C-104-T
10 ~ 300	-25	6	2	445-2997-1-ND	.56	4.88	22.52	263.00/M	ACH32C-333-T
30 ~ 300	-25	6	2	445-2996-1-ND	.56	4.88	22.52	263.00/M	ACH32C-103-T
55 ~ 300	-25	6	2	445-2995-1-ND	.56	4.88	22.52	263.00/M	ACH32C-222-T
100 ~ 500	-25	6	2	445-2994-1-ND	.56	4.88	22.52	263.00/M	ACH32C-102-T
200 ~ 800	-25	6	2	445-2993-1-ND	.56	4.88	22.52	263.00/M	ACH32C-331-T
450 ~ 1300	-20	6	2	445-2992-1-ND	.56	4.88	22.52	263.00/M	ACH32C-101-T
650 ~ 2500	-15	6	2	445-2991-1-ND	.56	4.88	22.52	263.00/M	ACH32C-470-T
1300 ~ 2500	-15	6	2	445-2990-1-ND	.56	4.88	22.52	263.00/M	ACH32C-220-T
2000 ~ 5500	-15	6	2	445-2989-1-ND	.56	4.88	22.52	263.00/M	ACH32C-100-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line / SMD – MEM2012T Series

Features: • Multilayer chip EMC filter utilizing a T-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible and crosstalk generation is prevented • Steep attenuation characteristic plot. Highly effective noise suppression • Covers a wide range of frequencies • Operating Temperature Range: -40°C ~ 85°C

Dimensions in mm

Fig. 1

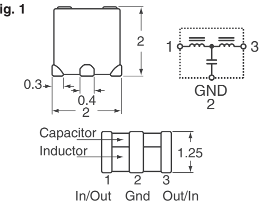

Fig. 2

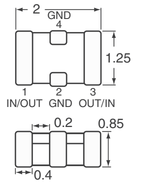

Pad Layout for Fig. 1 and Fig. 2

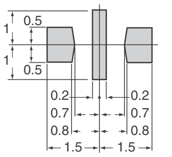

Fig.	Cut-off Freq. (MHz)	I Max. (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Qty.	Pricing‡	TDK Part No.
1	10	0.1	445-2135-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T10R0
	25	0.15	445-2136-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T25R0
	50	0.15	445-2137-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T50R0
	75	0.25	445-2138-1-ND	.51	4.38	20.22	1,000	235.95	MEM2012T75R0
	100	0.25	445-2139-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T101R
2	25	0.1	445-3357-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T25R0T0S1
	35	0.1	445-3358-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T35R0T0S1
	50	0.1	445-3359-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T50R0T0S1
	100	0.25	445-3360-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T101RT0S1
	200	0.25	445-3361-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T201RT0S1

‡ For Tape and Reel part number, change 1-ND to 2-ND.

TDK

3-Terminal Filters for Signal Line / SMD

MEM2012D Series

Dimensions in mm

This chip type EMC filter eliminates the noise component from a communication line. This noise component can be eliminated by inserting these products in series with the communication line. In comparison to earlier multilayer chip EMC filters, signal wave-form distortion is low after the signal has passed through the filter. Therefore this filter can be used for high speed pulse signal circuits and wide band analog RGB circuits.

Features: • Small size • Steep attenuation characteristic • Low distortion of signal after passing through filter • Capable of reflow soldering

Applications: • PCs • CRTs • LC display panels • Printers • Game machines • DVD equipment

Operating Temperature Range: -40°C ~ 85°C

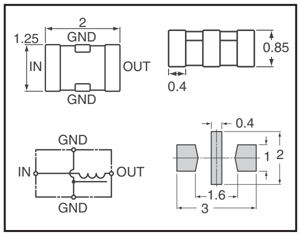

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 4,000	TDK Part No.
200	0.2	445-3353-1-ND	.33	2.89	13.34	156.00/M	MEM2012D201R
300	0.2	445-3354-1-ND	.33	2.89	13.34	156.00/M	MEM2012D301R

‡ For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD

MEM2012P Series

Dimensions in mm

Features:
- Multilayer chip EMC filter that is small and low-profile due to the use of a π-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented. • Steep attenuation characteristic plot, highly effective noise suppression • Covers a wide range of frequencies • π-type circuit with 1 coil / 2 capacitors construction

Applications:
- Computers • Computer peripherals • VCRs • TVs • Car audio equipment • Printers • Game machines

Operating Temperature Range: -40°C ~ 85°C

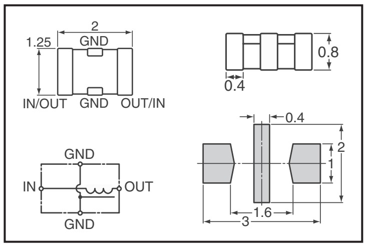

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 4,000	TDK Part No.
10	0.2	445-3362-1-ND	.33	2.89	13.34	156.00/M	MEM2012P10R0
25	0.2	445-3363-1-ND	.33	2.89	13.34	156.00/M	MEM2012P25R0
50	0.2	445-3364-1-ND	.33	2.89	13.34	156.00/M	MEM2012P50R0
75	0.2	445-3365-1-ND	.33	2.89	13.34	156.00/M	MEM2012P75R0
100	0.2	445-3366-1-ND	.33	2.89	13.34	156.00/M	MEM2012P101R

‡ For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD

MEM2012TC Series

Dimensions in mm

Features:

- Multilayer chip EMC filter utilizing a T-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented • Steep attenuation characteristic plot. Highly effective noise suppression • Covers a wide range of frequencies • Combines a bead inductor with a through-type capacitor

Applications: • Computer and computer peripherals • VCRs • TVs • Car audio equipment • Printers • Game machines

Operating Temperature Range: -40°C ~ 85°C

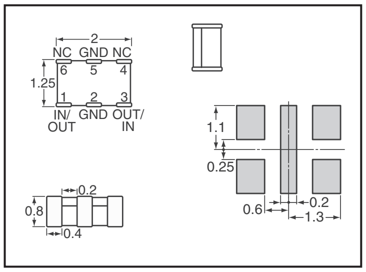

Cap. (pF) ±30%	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 4,000	TDK Part No.
10	1	445-3367-1-ND	.33	2.89	13.34	—	MEM2012TC100
47	1	445-3369-1-ND	.33	2.89	13.34	—	MEM2012TC470
100	1	445-3370-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC101

‡ For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD

MEM2012W Series

Dimensions in mm

These SMD Type 3-terminal filters are used for elimination of high frequency noise from signal lines. Due to a higher cutoff frequency than earlier SMD type 3-terminal filters and steep attenuation characteristics, these filters are effective for elimination of a high level of high frequency noise.

Features: • Small size • Entirely monolithic architecture

Applications: • PCs • Liquid crystal panels • Printers • Game machines • Cellular phones • Digital video cameras

Operating Temperature Range: -40°C ~ 85°C

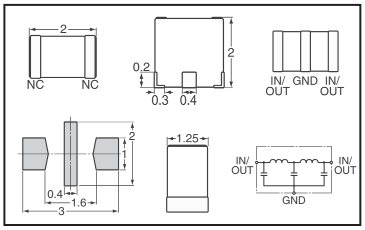

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing‡ 1,000	TDK Part No.
120	0.1	445-3372-1-ND	.42	3.61	16.68	195.00	MEM2012W121R
150	0.1	445-3373-1-ND	.42	3.61	16.68	—	MEM2012W151R
180	0.1	445-3374-1-ND	.42	3.61	16.68	195.00	MEM2012W181R
210	0.1	445-3375-1-ND	.42	3.61	16.68	—	MEM2012W211R

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Choke Coils for Signal Line / SMD

ZJYS Series

Features: • A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals • Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc • Due to a maximum current tolerance of 5A, can also be used to counter power line noise • The ZJYS81R5-2PL is a high inductance common mode filter designed to use with a CAN-BUS

Dimensions in mm

Fig. 1 — ZJYS51R5-2P, -2PB, -2PL

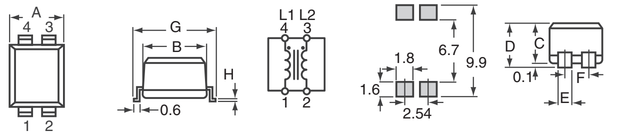

Fig. 2 — ZJYS51R5-4P, -M4PA

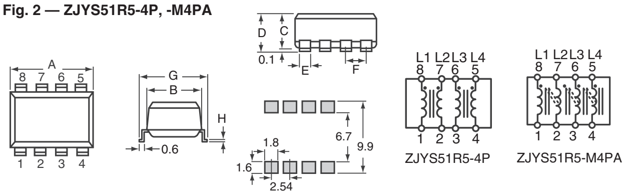

Fig. 3 — ZJYS81R5-2PL25-G01, -2PL51-G01

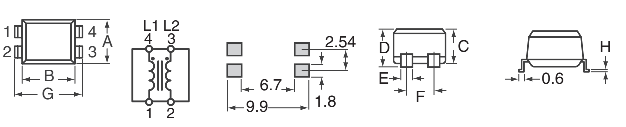

Fig.	Dimensions - mm A (Max.)	B (Max.)	C (Max.)	D (Max.)	E	F	G (Max.)	H	TDK Part No.
1	5.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-2P, -2PB, -2PL
2	10.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-4P, -M4PA
3	6	7.1	4.5	5	1.3	2.54	9	0.25	ZJYS81R5-2PL25-G01, -2PL51-G01

Minimum Impedance Ω (MHz)	Rated Current I (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel‡ Qty.	Pricing	TDK Part No.
Fig. 1 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20 ~ 300)	2	445-2219-1-ND	1.31	1.14	1.06	1,500	613.48/M	ZJYS51R5-2PT-01
200 (20 ~ 300)	2	445-2220-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS51R5-2PBT-01
200 (20 ~ 300)	2	445-2221-1-ND	1.42	1.23	1.14	1,500	660.66/M	ZJYS51R5-2PLT-01
Fig. 2 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20 ~ 300)	2	445-2224-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-4PT-01
200 (20 ~ 300)	0.5	445-2225-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-M4PAT-01
Fig. 3 — 80V, Operating Temperature -40°C ~ 125°C								
600 (10 ~ 100)	0.5	445-2222-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL25T-G01
1000 (10 ~ 100)	0.5	445-2223-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL51T-G01

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Common Mode Choke Coils for DC Power and Signal Line / SMD

Features: • A chip-type common mode filter for large current applications • Common mode impedance surpasses 80 ~ 10,000Ω at 100MHz • Noise is greatly suppressed • Height and size have been considered, resulting in a compact and light weight choke coil • Applicable for the miniaturization required to reduce the size and weight of portable equipment

Dimensions in mm

Fig. 1

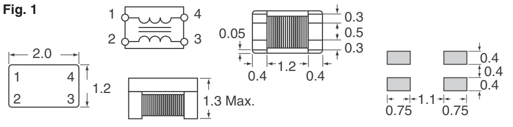

Fig. 2

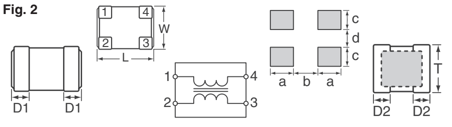

Fig. 3

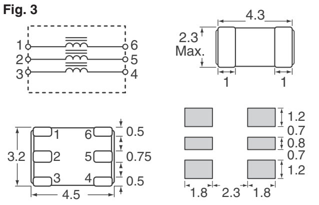

Fig.	L (mm)	W (mm)	T Max. (mm)	D1 (mm)	D2 (mm)	A (mm)	B (mm)	C (mm)	D Type (mm)	E (mm)	a (mm)	b (mm)	c (mm)	d (mm)	TDK Part No. Family
2	3.2	2.5	2.3	0.7	0.65	—	—	—	—	—	1.5	1.6	1.4	1.1	ACM3225-xxx-2P
	4.5	3.2	3.0	1	1	—	—	—	—	—	1.8	2.3	1.75	1.1	ACM4532-xxx-2P
	4.5	3.2	3.0	0.65	0.65	—	—	—	—	—	1.35	3.2	0.9	1.6	ACT45B-xxx-2P
4	7.0	6.0	3.5	—	—	1.5	1.5	1.5	4.0	2.2	2.5	4.0	1.5	1.5	ACM7060-xxx-2PL
	9.0	7.0	4.5	—	—	1.5	2.0	1.5	6.0	2.9	2.5	6.0	1.5	2.0	ACM9070-701-2PL
	12.0	11.0	6.0	—	—	2.7	2.5	2.3	7.4	3.8	3.2	7.6	2.7	2.5	ACM1211-xxx-2PL
	15.0	13.0	6.0	—	—	2.7	3.8	2.3	10.4	3.8	3.3	10.4	2.7	3.8	ACM1513-551-2PL
	7.0	6.0	3.5	—	—	1.5	1.5	1.5	4.0	—	2.5	4.0	1.5	1.5	ACM70V-xxx-2PL
	9.0	7.0	4.5	—	—	1.5	2.0	1.5	6.0	—	2.5	6.0	1.5	2.0	ACM90V-xxx-2PL
	12	11	6.0	—	—	2.7	2.5	2.3	7.4	—	3.3	7.4	2.7	2.5	ACM12V-xxx-2PL

Fig. 4

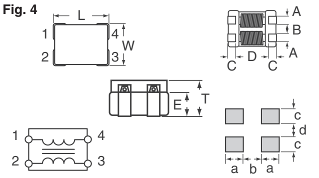

Fig. 5

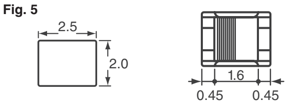

Fig.	Typical Impedance @ 100MHz (Ω)	Max. DC Resistance (Ω)	Max. Rated Current Idc (A)	No. of Lines	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	TDK Part No.
ACM Series											
1	90	0.19	0.4	2	445-2207-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-900-2P-T
	120	0.22	0.37	2	445-2208-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-121-2P-T000
	200	0.25	0.35	2	445-2209-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-201-2P-T002
	360	0.5	0.22	2	445-2210-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-361-2P-T000
	90	0.30	0.300	2	445-5193-1-ND	.75	.65	.60	2,000	350.00/M	ACM2012H-900-2P-T00
2	80	0.15	0.4	2	445-2030-1-ND	.97	.85	.78	1,000	453.02	ACM3225-800-2P-T001
	270	0.3	0.3	2	445-2032-1-ND	.97	.85	.78	1,000	453.02	ACM3225-271-2P-T001
	1000	0.5	0.2	2	445-2033-1-ND	.97	.85	.78	1,000	453.02	ACM3225-102-2P-T001
	600	0.2	1.0	2	445-2035-1-ND	.97	.85	.78	1,000	453.02	ACM3225-601-2P-T001
	600	0.1	1.5	2	445-2036-1-ND	1.05	.92	.85	500	245.39	ACM4532-601-2P-T001
	800	0.1	1.0	2	445-2037-1-ND	1.05	.92	.85	500	245.39	ACM4532-801-2P-T001
3	1000	0.6	0.2	3	445-2034-1-ND	1.05	.92	.85	500	245.39	ACM4532-102-3P
4	300	0.01	5	2	445-2214-1-ND	1.58	1.37	1.27	1,500	736.18/M	ACM7060-301-2PL-TL
	700	0.015	4	2	445-2215-1-ND	1.58	1.37	1.27	1,500	736.18/M	ACM7060-701-2PL-TL
	700	0.01	5	2	445-2216-1-ND	1.58	1.37	1.27	800	588.94	ACM9070-701-2PL-TL
	700	0.006	8	2	445-2212-1-ND	2.22	1.93	1.78	500	519.09	ACM1211-701-2PL-TL
	700	15	4.0	2	445-4081-1-ND	1.69	1.47	1.35	1,500	788.00/M	ACM70V-701-2PL-TL00
	700	10	5.0	2	445-4082-1-ND	1.88	1.63	1.50	800	700.00	ACM90V-701-2PL-TL00
	700	6	8.0	2	445-4083-1-ND	2.44	2.12	1.95	500	569.00	ACM12V-701-2PL-TL00
	1000	0.014	6	2	445-2213-1-ND	2.22	1.93	1.78	500	519.09	ACM1211-102-2PL-TL
	550	0.004	10	2	445-2211-1-ND	2.63	2.28	2.11	500	613.48	ACM1513-551-2PL-TL
5	300	0.35	0.4	2	445-2966-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-301-2P
	450	0.4	0.35	2	445-2967-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-451-2P
	600	0.45	0.3	2	445-2968-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-601-2P-T
	1000	0.9	0.2	2	445-2969-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-102-2P
	800	1.6	0.15	3	445-4842-1-ND	.94	.82	.75	2,000	437.50/M	ACM2520-801-3P-T002
TCM Series											
6	35	1.15	0.10	2	445-5382-1-ND ***NEW!***	.56	.49	.45	10,000	248.00/M	TCM0806G-350-2P
	65	2.50	0.10	2	445-5383-1-ND ***NEW!***	.56	.49	.45	10,000	248.00/M	TCM0806G-650-2P
	90	2.70	0.10	2	445-5384-1-ND ***NEW!***	.56	.49	.45	10,000	248.00/M	TCM0806G-900-2P
7	65	1.5	0.10	2	445-2970-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-650-2P
	90	1.75	0.10	2	445-2971-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-900-2P-T
	200	2.7	0.10	2	445-2972-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-201-2P-T
	300	3.5	0.05	2	445-2973-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-301-2P-T
	90	.85	0.10	2	445-5179-1-ND	1.13	.98	.90	4,000	525.00/M	TCM1210H-900-2P-T000
8	35	.85	0.10	4	445-5385-1-ND ***NEW!***	.56	.49	.45	4,000	263.00/M	TCM1608G-350-4P
	65	1.30	0.10	4	445-5386-1-ND ***NEW!***	.56	.49	.45	4,000	263.00/M	TCM1608G-650-4P
	90	1.50	0.10	4	445-5387-1-ND ***NEW!***	.56	.49	.45	4,000	263.00/M	TCM1608G-900-4P
	200	4.00	0.05	4	445-5388-1-ND ***NEW!***	.56	.49	.45	4,000	263.00/M	TCM1608G-201-4P
9	65	1.5	0.10	4	445-2974-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-650-4P
	100	1.5	0.10	4	445-2975-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-101-4P-T
	200	2.0	0.10	4	445-2976-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-201-4P-T
	90	1.0	0.10	4	445-5180-1-ND	1.69	1.47	1.35	4,000	787.50/M	TCM2010H-900-4P-T000
ACT Series											
2	700	0.6	0.25	2	445-3956-1-ND	2.52	2.19	2.02	2,000	1176.00/M	ACT45B-110-2P-TL003
	1000	1.0	0.20	2	445-3957-1-ND	2.52	2.19	2.02	2,000	1176.00/M	ACT45B-220-2P-TL003
	2000	1.0	0.20	2	445-3958-1-ND	2.52	2.19	2.02	2,000	1176.00/M	ACT45B-510-2P-TL003
	5000	3.0	0.15	2	445-3959-1-ND	2.52	2.19	2.02	2,000	1176.00/M	ACT45B-101-2P-TL003
NEW! MCZ Series NEW!											
9	90	1.5	.10	2	445-5391-1-ND	.94	.82	.75	5,000	413.00/M	MCZ2010AH900
	120	2.0	.10	2	445-5392-1-ND	.94	.82	.75	5,000	413.00/M	MCZ2010AH121
10	36	1.0	.20	2	445-5389-1-ND	.47	.41	.38	4,000	219.00/M	MCZ1210AH360
	90	1.75	.10	2	445-5390-1-ND	.47	.41	.38	4,000	219.00/M	MCZ1210AH900

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 6 ***NEW!***

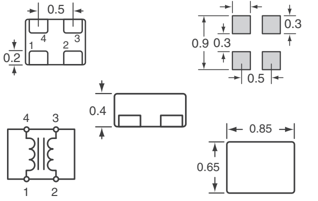

Fig. 7

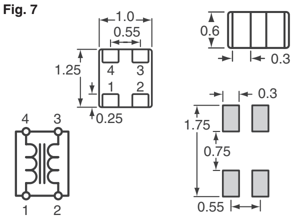

Fig. 8 ***NEW!***

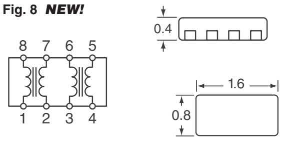

Fig. 9 ***NEW!***

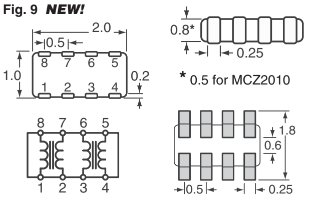

Fig. 10 ***NEW!***

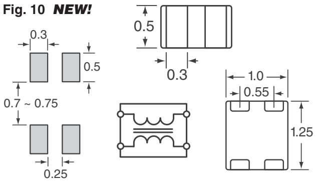

TDK

Clamp Filters for Cable

Features: • Unique plastic case ensures simple, convenient installation and includes a self-holding mechanism to prevent slippage on cables • Ferrite core provides excellent absorption of high-frequency EMC • Highly effective as countermeasure against common mode EMC without adverse effect on signal quality • Large core size prevents saturation during large signal surges

Fig.	Dimensions — mm A	B	C	D	E	Minimum Impedance @ 50 ~ 500MHz (Ω)	Outer Cable Diameter (mm)	Case Color	Digi-Key Part No.	Price Each 1	10	50	100	TDK Part No.
							ZCAT Type							
1	22	18	7	15	—	35	7 Max.	Gray	445-2040-ND	1.09	.90	.78	.70	ZCAT1518-0730
	22	18	7	15	—	35	7 Max.	Black	445-2041-ND	1.09	.90	.78	.70	ZCAT1518-0730-BK
	21	17	9	20	—	35	9 Max.	Gray	445-2044-ND	1.29	1.07	.93	.83	ZCAT2017-0930
	21	17	9	20	—	35	9 Max.	Black	445-2045-ND	1.29	1.07	.93	.83	ZCAT2017-0930-BK
	36	32	11	20.5	—	50	11 Max.	Gray	445-2048-ND	1.16	.96	.83	.75	ZCAT2132-1130
	36	32	11	20.5	—	50	11 Max.	Black	445-2049-ND	1.16	.96	.83	.75	ZCAT2132-1130-BK
	39	34	13	30	—	100	13 Max.	Gray	445-2054-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330
	39	34	13	30	—	100	13 Max.	Black	445-2055-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330-BK
							ZCAT-A Type							
2	25	20	5	12.8	11.2	50	3 ~ 5	Gray	445-2038-ND	.71	.60	.51	.46	ZCAT1325-0530A
	25	20	5	12.8	11.2	50	3 ~ 5	Black	445-2039-ND	.71	.60	.51	.46	ZCAT1325-0530A-BK
	30	23	7	16.5	15	50	4 ~ 7	Gray	445-2042-ND	1.22	1.02	.88	.79	ZCAT1730-0730A
	30	23	7	16.5	15	50	4 ~ 7	Black	445-2043-ND	1.22	1.02	.88	.79	ZCAT1730-0730A-BK
	35	28	9	19.5	17.4	80	6 ~ 9	Gray	445-2046-ND	1.22	1.02	.88	.79	ZCAT2035-0930A
	35	28	9	19.5	17.4	80	6 ~ 9	Black	445-2047-ND	1.22	1.02	.88	.79	ZCAT2035-0930A-BK
	35	28	10	21.5	20	80	8 ~ 10	Gray	445-2050-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A
	35	28	10	21.5	20	80	8 ~ 10	Black	445-2051-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A-BK
	36	29	13	23.5	22	50	10 ~ 13	Gray	445-2052-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A
	36	29	13	23.5	22	50	10 ~ 13	Black	445-2053-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A-BK
							ZCAT-D Type							
3	45.5	24.5	34	12	—	35	26 Conductor Flat	Black	445-2057-ND	4.07	3.38	2.91	2.62	ZCAT4625-3430D-BK

Fig. 1 — ZCAT Type

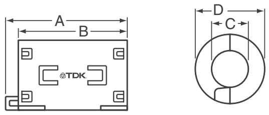

Fig. 2 — ZCAT-A Type

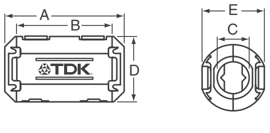

Fig. 3 — ZCAT-D Type

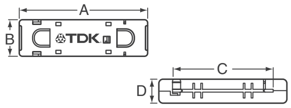

Applicable Cable
Thickness 1.3mm Max.

TAIYO YUDEN

High Current SMT Ferrite Chip Beads

Features:

• Large withstanding voltage • Resistance to high energy • High reliability

Applications:

• Automotive • Computer Peripherals • Differential transmission line on USB and similar products • Mobile devices which require lower power consumption • Provides waveform correction of digital signals and high frequency noise countermeasures in various types of digital equipment • Works well with power line radiated and conducted noise

Taiyo Yuden's Type Breakout:

- **HS:** For Broadband applications
- **HM:** For upper MHz range applications
- **HL:** For GHz range applications

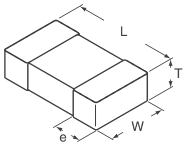

Size Code	Dimensions - mm L	W	T	e
		FBMH Series		
0603	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.3 ±0.15
0805	2.0 ±0.2	1.25 ±0.2	0.85 ±0.2	0.5 ±0.3
0806	2.0 ±0.2	1.6 ±0.2	1.6 ±0.2	0.5 ±0.3
1206	3.2 ±0.3	1.6 ±0.2	1.6 ±0.2	0.5 ±0.3
1210	3.2 ±0.3	2.5 ±0.3	2.5 ±0.3	0.5 ±0.3
1806	4.5 ±0.3	1.6 ±0.2	1.6 ±0.2	0.5 ±0.3
1810	4.5 ±0.4	2.5 ±0.3	2.5 ±0.3	0.9 ±0.6
1812	4.5 ±0.4	3.2 ±0.3	3.2 ±0.3	0.9 ±0.6
		FBMJ Series		
0603	1.6 ±0.2	0.8 ±0.2	0.8 ±0.2	0.3 ±0.2
0805	2.0 ±0.2	1.25 ±0.2	0.85 ±0.2	0.5 ±0.3
1206	3.2 ±0.3	1.6 ±0.2	1.1 ±0.2	0.5 ±0.3
1806	4.5 ±0.3	1.6 ±0.2	1.1 ±0.2	0.5 ±0.3

Size Code	Type	Impedance (Ω) @ 100MHz	Maximum Rated Current (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
						FBMH Series						
0603	HL	30	2.5	0.028	587-1733-1-ND	.38	2.85	13.30	587-1733-2-ND	4,000	38.00/M	FBMH1608HL300-T
	HM	47	3.5	0.020	587-1743-1-ND	.38	2.85	13.30	587-1743-2-ND	4,000	38.00/M	FBMH1608HM470-T
	HL	60	1.8	0.045	587-1736-1-ND	.38	2.85	13.30	587-1736-2-ND	4,000	38.00/M	FBMH1608HL600-T
	HM	60	3.0	0.025	587-1745-1-ND	.38	2.85	13.30	587-1745-2-ND	4,000	38.00/M	FBMH1608HM600-T
	HM	100	2.0	0.035	587-1738-1-ND	.38	2.85	13.30	587-1738-2-ND	4,000	38.00/M	FBMH1608HM101-T
	HL	120	0.9	0.130	587-1731-1-ND	.38	2.85	13.30	587-1731-2-ND	4,000	38.00/M	FBMH1608HL121-T
	HM	150	2.0	0.050	587-1740-1-ND	.38	2.85	13.30	587-1740-2-ND	4,000	38.00/M	FBMH1608HM151-T
	HL	220	0.7	0.170	587-1732-1-ND	.38	2.85	13.30	587-1732-2-ND	4,000	38.00/M	FBMH1608HL221-T
	HM	220	1.5	0.070	587-1741-1-ND	.38	2.85	13.30	587-1741-2-ND	4,000	38.00/M	FBMH1608HM221-T
	HL	330	0.6	0.210	587-1734-1-ND	.38	2.85	13.30	587-1734-2-ND	4,000	38.00/M	FBMH1608HL331-T
	HL	470	0.5	0.350	587-1735-1-ND	.38	2.85	13.30	587-1735-2-ND	4,000	38.00/M	FBMH1608HL471-T
	HM	470	0.7	0.150	587-1744-1-ND	.38	2.85	13.30	587-1744-2-ND	4,000	38.00/M	FBMH1608HM471-T
	HL	600	0.4	0.45	587-1737-1-ND	.38	2.85	13.30	587-1737-2-ND	4,000	38.00/M	FBMH1608HL601-T
	HM	600	0.7	0.170	587-1746-1-ND	.38	2.85	13.30	587-1746-2-ND	4,000	38.00/M	FBMH1608HM601-T
	HM	1,000	0.5	0.350	587-1739-1-ND	.38	2.85	13.30	587-1739-2-ND	4,000	38.00/M	FBMH1608HM102-T
0805	HM	80	2.7	0.025	587-1750-1-ND	.35	2.75	14.38	587-1750-2-ND	4,000	46.00/M	FBMH2012HM800-T
	HM	120	2.5	0.032	587-1747-1-ND	.35	2.75	14.38	587-1747-2-ND	4,000	46.00/M	FBMH2012HM121-T
	HM	220	2.0	0.060	587-1748-1-ND	.35	2.75	14.38	587-1748-2-ND	4,000	46.00/M	FBMH2012HM221-T
	HM	330	1.8	0.080	587-1749-1-ND	.35	2.75	14.38	587-1749-2-ND	4,000	46.00/M	FBMH2012HM331-T
0806	HM	250	2.0	0.050	587-1751-1-ND	.42	3.30	17.25	587-1751-2-ND	2,000	60.00/M	FBMH2016HM251NT
1206	HM	500	2.0	0.070	587-1752-1-ND	.53	4.15	25.00	587-1752-2-ND	2,000	90.00/M	FBMH3216HM501NT
1210	HM	600	3.0	0.042	587-1755-1-ND	.76	6.37	39.90	587-1755-2-ND	1,000	162.00	FBMH3225HM601NT
	HM	1,000	2.0	0.100	587-1753-1-ND	.76	6.37	39.90	587-1753-2-ND	1,000	162.00	FBMH3225HM102NT
	HM	2,000	1.2	0.130	587-1754-1-ND	.76	6.37	39.90	587-1754-2-ND	1,000	162.00	FBMH3225HM202NT
1806	HM	850	1.5	0.100	587-1756-1-ND	.80	6.70	42.00	587-1756-2-ND	2,000	160.00/M	FBMH4516HM851NT
1810	HM	1,000	3.0	0.060	587-1757-1-ND	1.06	9.01	61.20	587-1757-2-ND	1,000	272.00	FBMH4525HM102NT
	HM	1,600	2.0	0.130	587-1758-1-ND	1.06	9.01	61.20	587-1758-2-ND	1,000	272.00	FBMH4525HM162NT
1812	HM	680	4.0	0.028	587-1761-1-ND	.86	7.26	49.32	587-1761-2-ND	2,000	206.00/M	FBMH4532HM681-T
	HM	1,300	3.0	0.060	587-1759-1-ND	.86	7.26	49.32	587-1759-2-ND	2,000	206.00/M	FBMH4532HM132-T
	HM	2,000	1.3	0.130	587-1760-1-ND	.86	7.26	49.32	587-1760-2-ND	2,000	206.00/M	FBMH4532HM202-T
						FBMJ Series						
0603	HM	23	4.0	0.007	587-1762-1-ND	.38	2.85	13.30	587-1762-2-ND	4,000	38.00/M	FBMJ1608HM230NT
	HS	28	4.0	0.007	587-1763-1-ND	.38	2.85	13.30	587-1763-2-ND	4,000	38.00/M	FBMJ1608HS280NT
0805	HL	8	2.0	0.010	587-1764-1-ND	.40	3.00	14.00	587-1764-2-ND	4,000	40.00/M	FBMJ2125HL8R0NT
	HM	21	6.0	0.004	587-1765-1-ND	.40	3.00	14.00	587-1765-2-ND	4,000	40.00/M	FBMJ2125HM210NT
	HS	25	6.0	0.004	587-1767-1-ND	.40	3.00	14.00	587-1767-2-ND	4,000	40.00/M	FBMJ2125HS250NT
	HM	33	4.0	0.008	587-1766-1-ND	.40	3.00	14.00	587-1766-2-ND	4,000	40.00/M	FBMJ2125HM330-T
	HS	42	4.0	0.008	587-1768-1-ND	.40	3.00	14.00	587-1768-2-ND	4,000	40.00/M	FBMJ2125HS420-T
1206	HM	38	6.0	0.005	587-1769-1-ND	.42	3.30	17.25	587-1769-2-ND	2,000	60.00/M	FBMJ3216HM380NT
	HS	48	6.0	0.005	587-1771-1-ND	.42	3.30	17.25	587-1771-2-ND	2,000	60.00/M	FBMJ3216HS480NT
	HM	60	4.0	0.010	587-1770-1-ND	.42	3.30	17.25	587-1770-2-ND	2,000	60.00/M	FBMJ3216HM600-T
	HS	80	4.0	0.010	587-1772-1-ND	.42	3.30	17.25	587-1772-2-ND	2,000	60.00/M	FBMJ3216HS800-T
1806	HM	56	6.0	0.007	587-1773-1-ND	.49	3.85	20.13	587-1773-2-ND	2,000	70.00/M	FBMJ4516HM560NT
	HS	72	6.0	0.007	587-1776-1-ND	.49	3.85	20.13	587-1776-2-ND	2,000	70.00/M	FBMJ4516HS720NT
	HM	90	4.0	0.014	587-1774-1-ND	.49	3.85	20.13	587-1774-2-ND	2,000	70.00/M	FBMJ4516HM900-T
	HS	110	4.0	0.014	587-1775-1-ND	.49	3.85	20.13	587-1775-2-ND	2,000	70.00/M	FBMJ4516HS111-T

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TAIYO YUDEN

Multilayer Ferrite Chip Beads

Features: • Internal silver printed layer creates a closed circuit which acts as a magnetic shield minimizing heat generation and crosstalk • No need for grounding provides greater circuit design flexibility • Several material types and a broad range of impedance values provide noise countermeasures for various applications

Applications: • High frequency noise countermeasure in personal computers, digital cameras and other information system products • For use on digital product clock lines and general signal lines • Radiated noise suppression in computer or printer interfaces and harness connectors • Noise suppression in video and other AV products • Prevents interference between circuits in cellular phones • Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supply lines where downsizing of components is needed

Taiyo Yuden's Type Breakout:

- **HS:** Suppresses the XL component. Helps stop the reduction of the wave-form integrity. (digital wave-form overshoot, etc.)
- **HM:** Increases the Z characteristic sharply above 20MHz and is applicable for radiated noise in the 100MHz ~ 300MHz range. Especially effective on video signal lines.
- **LL:** Designed as a noise countermeasure for the 200MHz ~ 500MHz range where the rise of the Z component is in the high frequency area.
- **LM:** Intended for noise suppression around 200MHz. Effectively increases attenuation.
- **HW:** The best material in the BK Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
- **TM:** Low DC resistance HM version.
- **TS:** Reduced DC resistance version for noise countermeasures around LSI power supplies.

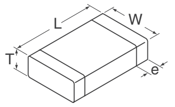

Size Code	Dimensions - mm			
	L	W	e	T
0201	0.60 ±0.03	0.30 ±0.03	0.15 ±0.05	0.3
0402	1.00 ±0.05	0.50 ±0.05	0.25 ±0.10	0.5
0603	1.6 ±0.15	0.8 ±0.15	0.3 ±0.2	0.8
0805 (≤ 1500Ω)	2.0 ±0.2	1.25 ±0.2	0.5 ±0.3	0.85
0805 (≥ 1800Ω)	2.0 +0.3/-0.1	1.25 ±0.2	0.5 ±0.3	0.85

Size Code	Type	Imped-ance (Ω) @100MHz	Max. Rated Curr. (A)	Max. DC Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Taiyo Yuden Part No.
						1	10	Qty.	Pricing	
					BK Series					
0201	HS	33	0.5	0.070	587-1828-1-ND	.46	3.45	15,000	41.00/M	BK0603HS330-T
	LL	47	0.15	0.70	587-1834-1-ND	.46	3.45	15,000	41.00/M	BK0603LL470-T
	HS	80	0.2	0.40	587-1830-1-ND	.46	3.45	15,000	41.00/M	BK0603HS800-T
	LL	80	0.1	1.30	587-2198-1-ND	.46	3.45	15,000	41.00/M	BK0603LL800-T
	HM	120	0.2	0.40	587-1821-1-ND	.37	2.77	—	—	BK0603HM121-T
	HM	240	0.2	0.80	587-1822-1-ND	.46	3.45	15,000	41.00/M	BK0603HM241-T
	HS	240	0.2	0.65	587-1827-1-ND	.46	3.45	15,000	41.00/M	BK0603HS241-T
	HM	470	0.1	1.05	587-1823-1-ND	.46	3.45	15,000	41.00/M	BK0603HM471-T
	HS	600	0.15	1.20	587-1829-1-ND	.46	3.45	15,000	41.00/M	BK0603HS601-T
0402	LL	5	0.6	0.08	587-2199-1-ND	.30	2.00	10,000	20.00/M	BK1005LL050-T
	HS	10	1.0	0.03	587-1840-1-ND†	.30	2.00	10,000	20.00/M	BK1005HS100-T
	LL	10	0.5	0.11	587-1853-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL100-T
	LL	22	0.4	0.18	587-1856-1-ND†	.24	1.60	—	—	BK1005LL220-T
	HS	33	0.7	0.06	587-1844-1-ND†	.30	2.00	10,000	20.00/M	BK1005HS330-T
	LL	33	0.4	0.25	587-1858-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL330-T
	LL	47	0.35	0.33	587-1859-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL470-T
	LL	68	0.4	0.31	587-1860-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL680-T
	HS	80	0.7	0.1	587-1820-1-ND	.30	2.00	10,000	20.00/M	BK1005HS800-T
	HM	120	0.3	0.18	587-1836-1-ND†	.30	2.00	10,000	20.00/M	BK1005HM121-T
	HS	120	0.5	0.2	587-1842-1-ND†	.30	2.00	10,000	20.00/M	BK1005HS121-T
	HW	120	0.45	0.24	587-1848-1-ND†	.30	2.00	10,000	20.00/M	BK1005HW121-T
	LL	120	0.35	0.45	587-1854-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL121-T
	LL	180	0.3	0.5	587-1855-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL181-T
	HM	240	0.3	0.3	587-1837-1-ND†	.30	2.00	10,000	20.00/M	BK1005HM241-T
	HS	240	0.4	0.3	587-1843-1-ND†	.30	2.00	10,000	20.00/M	BK1005HS241-T
	LL	240	0.25	0.7	587-1857-1-ND†	.30	2.00	10,000	20.00/M	BK1005LL241-T
	HS	430	0.35	0.45	587-1845-1-ND	.24	1.60	—	—	BK1005HS431-T
	HW	430	0.35	0.5	587-1850-1-ND†	.30	2.00	10,000	20.00/M	BK1005HW431-T
	HM	600	0.25	0.5	587-1839-1-ND†	.30	2.00	10,000	20.00/M	BK1005HM601-T
	HS	600	0.3	0.55	587-1846-1-ND†	.30	2.00	10,000	20.00/M	BK1005HS601-T
	HW	600	0.3	0.6	587-1851-1-ND†	.30	2.00	10,000	20.00/M	BK1005HW601-T
	HM	1,000	0.15	0.7	587-1835-1-ND†	.30	2.00	10,000	20.00/M	BK1005HM102-T
	HS	1,000	0.3	0.58	587-1841-1-ND	.30	2.00	10,000	20.00/M	BK1005HS102-T
	LM	1,800	0.12	0.9	587-1861-1-ND	.30	2.00	10,000	20.00/M	BK1005LM182-T
0603	HS	22	1.5	0.05	587-1869-1-ND	.33	2.20	4,000	24.00/M	BK1608HS220-T
	LL	30	0.5	0.2	587-1883-1-ND	.33	2.20	4,000	24.00/M	BK1608LL300-T
	HS	33	1.2	0.08	587-1871-1-ND	.33	2.20	4,000	24.00/M	BK1608HS330-T
	HS	47	0.9	0.1	587-1872-1-ND	.33	2.20	4,000	24.00/M	BK1608HS470-T
	HS	60	0.8	0.1	587-1873-1-ND	.33	2.20	4,000	24.00/M	BK1608HS600-T
	LL	68	0.3	0.35	587-1889-1-ND	.33	2.20	4,000	24.00/M	BK1608LL680-T
	HS	80	0.6	0.1	587-1875-1-ND	.33	2.20	4,000	24.00/M	BK1608HS800-T
	HM	120	0.35	0.2	587-1863-1-ND	.33	2.20	4,000	24.00/M	BK1608HM121-T
	HS	120	0.5	0.18	587-1868-1-ND	.33	2.20	4,000	24.00/M	BK1608HS121-T
	HW	120	0.6	0.15	587-1876-1-ND	.33	2.20	4,000	24.00/M	BK1608HW121-T
	LL	120	0.3	0.5	587-1880-1-ND	.33	2.20	4,000	24.00/M	BK1608LL121-T
	LL	180	0.25	0.65	587-1881-1-ND	.33	2.20	4,000	24.00/M	BK1608LL181-T
	HS	240	0.4	0.25	587-1870-1-ND	.33	2.20	4,000	24.00/M	BK1608HS241-T
	HW	240	0.45	0.25	587-1877-1-ND	.33	2.20	4,000	24.00/M	BK1608HW241-T
	LL	240	0.25	0.8	587-1882-1-ND	.33	2.20	4,000	24.00/M	BK1608LL241-T
	HW	430	0.4	0.3	587-1878-1-ND	.33	2.20	4,000	24.00/M	BK1608HW431-T
	HM	470	0.25	0.45	587-1865-1-ND	.33	2.20	4,000	24.00/M	BK1608HM471-T
	HM	600	0.25	0.6	587-1866-1-ND	.33	2.20	4,000	24.00/M	BK1608HM601-T
	HS	600	0.35	0.45	587-1874-1-ND	.33	2.20	4,000	24.00/M	BK1608HS601-T
0603	HW	600	0.3	0.4	587-1879-1-ND	.33	2.20	4,000	24.00/M	BK1608HW601-T
	TS	600	0.35	0.27	587-1897-1-ND	.33	2.20	4,000	24.00/M	BK1608TS601-T
	LL	680	0.15	1.0	587-1890-1-ND	.33	2.20	4,000	24.00/M	BK1608LL681-T
	LM	750	0.3	0.6	587-1894-1-ND	.33	2.20	4,000	24.00/M	BK1608LM751-T
	HM	1,000	0.2	0.7	587-1862-1-ND	.33	2.20	4,000	24.00/M	BK1608HM102-T
	HS	1,000	0.3	0.6	587-1867-1-ND	.33	2.20	4,000	24.00/M	BK1608HS102-T
	TS	1,000	0.3	0.30	587-1895-1-ND	.33	2.20	4,000	24.00/M	BK1608TS102-T
	LM	1,500	0.25	0.75	587-1891-1-ND	.33	2.20	4,000	24.00/M	BK1608LM152-T
	LM	1,800	0.2	0.85	587-1892-1-ND	.33	2.20	4,000	24.00/M	BK1608LM182-T
	LM	2,500	0.2	1.1	587-1893-1-ND	.33	2.20	4,000	24.00/M	BK1608LM252-T
0805	HS	15	1.2	0.05	587-1906-1-ND	.30	2.25	4,000	30.00/M	BK2125HS150-T
	HS	22	1.2	0.05	587-1907-1-ND	.30	2.25	4,000	30.00/M	BK2125HS220-T
	HS	33	1.2	0.05	587-1909-1-ND	.30	2.25	4,000	30.00/M	BK2125HS330-T
	HS	47	1.0	0.05	587-1911-1-ND	.30	2.25	4,000	30.00/M	BK2125HS470-T
	LL	56	0.6	0.2	587-1916-1-ND	.30	2.25	4,000	30.00/M	BK2125LL560-T
	HS	75	1.0	0.1	587-1913-1-ND	.30	2.25	4,000	30.00/M	BK2125HS750-T
	HS	100	0.9	0.1	587-1903-1-ND	.30	2.25	4,000	30.00/M	BK2125HS101-T
	HM	120	0.8	0.15	587-1899-1-ND	.30	2.25	4,000	30.00/M	BK2125HM121-T
	HS	120	0.8	0.15	587-1905-1-ND	.30	2.25	4,000	30.00/M	BK2125HS121-T
	LL	120	0.4	0.3	587-1914-1-ND	.30	2.25	4,000	30.00/M	BK2125LL121-T
	HM	240	0.6	0.2	587-1900-1-ND	.30	2.25	4,000	30.00/M	BK2125HM241-T
	HS	430	0.5	0.25	587-1910-1-ND	.30	2.25	4,000	30.00/M	BK2125HS431-T
	HM	470	0.5	0.25	587-1901-1-ND	.30	2.25	4,000	30.00/M	BK2125HM471-T
	HM	600	0.5	0.25	587-1902-1-ND	.30	2.25	4,000	30.00/M	BK2125HM601-T
	HS	600	0.5	0.3	587-1912-1-ND	.30	2.25	4,000	30.00/M	BK2125HS601-T
	HM	1,000	0.4	0.35	587-1898-1-ND	.30	2.25	4,000	30.00/M	BK2125HM102-T
	HS	1,000	0.3	0.4	587-1904-1-ND	.30	2.25	4,000	30.00/M	BK2125HS102-T
	LM	1,500	0.4	0.35	587-1917-1-ND	.30	2.25	4,000	30.00/M	BK2125LM152-T
	LM	1,800	0.3	0.45	587-1918-1-ND	.30	2.25	2,000	33.00/M	BK2125LM182-T
	LM	2,500	0.2	0.75	587-1919-1-ND	.30	2.25	2,000	33.00/M	BK2125LM252-T
					BKP Series					
0201	HS	22	1.0	0.065	587-2196-1-ND	.46	3.45	15,000	41.00/M	BKP0603HS220-T
	HS	33	1.0	0.070	587-2197-1-ND	.46	3.45	15,000	41.00/M	BKP0603HS330-T
0402	HS	10	2.0	0.030	587-2416-1-ND ***NEW!***	.30	2.00	10,000	20.00/M	BKP1005HS100-T
	HS	33	1.7	0.050	587-2419-1-ND ***NEW!***	.30	2.00	10,000	20.00/M	BKP1005HS330-T
	HS	68	1.5	0.075	587-2417-1-ND ***NEW!***	.30	2.00	10,000	20.00/M	BKP1005HS680-T
	HS	120	1.0	0.14	587-1921-1-ND	.30	2.00	10,000	20.00/M	BKP1005HS121-T
	HM	120	1.1	0.12	587-2089-1-ND	.30	2.00	10,000	20.00/M	BKP1005HM121-T
	TM	120	1.3	0.100	587-2420-1-ND ***NEW!***	.30	2.00	10,000	20.00/M	BKP1005TM121-T
	HS	220	0.8	0.2	587-2088-1-ND	.30	2.00	10,000	20.00/M	BKP1005HS221-T
	HS	220	0.9	0.180	587-2418-1-ND	.30	2.00	10,000	20.00/M	BKP1005HM221-T
0603	HS	33	3.0	0.025	587-1926-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS330-T
	HS	60	2.5	0.04	587-1928-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS600-T
	HS	100	1.7	0.05	587-1922-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS101-T
	HS	120	2.7	0.035	587-1923-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS121-T
	HS	180	1.5	0.075	587-1924-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS181-T
	HS	270	1.2	0.11	587-1925-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS271-T
	HS	390	1.0	0.14	587-1927-1-ND	.33	2.20	4,000	24.00/M	BKP1608HS391-T
0805	HS	33	4.0	0.02	587-1931-1-ND	.30	2.25	4,000	30.00/M	BKP2125HS330-T
	HS	60	3.0	0.025	587-1932-1-ND	.30	2.25	4,000	30.00/M	BKP2125HS600-T
	HS	100	2.5	0.04	587-1929-1-ND	.30	2.25	4,000	30.00/M	BKP2125HS101-T
	HS	220	2.0	0.05	587-1930-1-ND	.30	2.25	4,000	30.00/M	BKP2125HS221-T
	HS	330	1.5	0.075	587-2485-1-ND ***NEW!***	.30	2.25	4,000	30.00/M	BKP2125HS331-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

† **587-1957-ND** (TAIYO-0402BEAD-V1) Kit contains 50 each of values denoted (1,200 total pieces) . . . **$60.00**

AVX Feedthru 0612/0805/1206 Filters/Capacitors

AVX's line of feedthru capacitors are ideal choices for EMI suppression, broadband I/O filtering, or Vcc power line conditioning. The unique construction of a feedthru capacitor provides low parallel inductance and offers excellent decoupling capability for all high di/dt environments and provides significant noise reduction in digital circuits to <5GHz.

Characteristics: • Current Rating: 300mA • Insulation Resistance: 1,000MΩ • DC Resistance: <0.6Ω • Operating Temperature: -55°C ~ 125°C

Series	Dimensions - mm													
	A	B	C	D	E	F	L	W	T	BW	BL	EW	X	S
0612 (W3H)	2.54	3.05	1.12	0.46	0.61	0.33	1.60 ±0.20	3.20 ±0.20	1.22 Max.	2.80 ±0.127	0.18 +0.25/-0.08	0.41 ±0.10	1.60 ±0.10	1.40 ±0.07
0612 (W3F)	0.6	1.6	2.2	0.35	0.76	2.6	3.25 ±0.15	1.60 ±0.20	1.22 Max.	0.41 ±0.10	0.18 +0.25/-0.06	—	1.14 ±0.10	0.38 ±0.10
0805	3.45	0.51	0.76	1.27	1.02	0.46	2.01 ±0.20	1.25 ±0.20	1.14 Max.	0.46 ±0.10	0.18 +0.25/-0.08	0.25 ±0.13	1.02 ±0.10	0.23 ±0.15
1206	4.54	0.94	1.02	1.65	1.09	0.71	3.20 ±0.20	1.60 ±0.20	1.27 Max.	0.89 ±0.10	0.18 +0.25/-0.08	0.38 ±0.18	1.60 ±0.10	0.46 ±0.15

Fig. 1

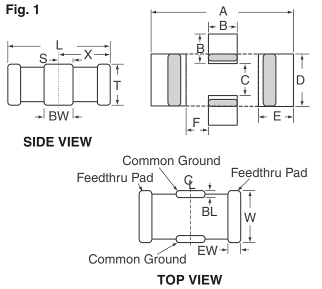

Fig. 2

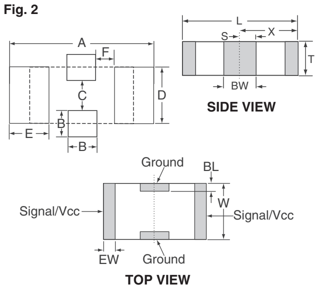

Fig. 3

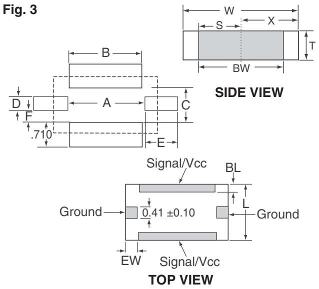

Fig. 4

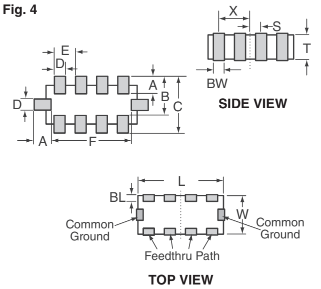

Fig.	Size Code	Type	WV VDC	Capacitance (pF)	Capacitance Tolerance (%)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1	0805	NP0	100	220	+50, -20	478-2232-1-ND	1.07	.64	.37	478-2232-2-ND	1,000	174.60	W2F11A2218AT1F
	0805	NP0	100	470	+50, -20	478-2233-1-ND	1.07	.64	.37	478-2233-2-ND	1,000	174.60	W2F11A4718AT1F
	0805	X7R	50	1,000	+50, -20	478-2234-1-ND	1.13	.67	.39	478-2234-2-ND	1,000	183.60	W2F15C1028AT1F
	0805	X7R	50	10,000	+50, -20	478-2235-1-ND	1.13	.67	.39	478-2235-2-ND	1,000	183.60	W2F15C1038AT1F
	0805	X7R	50	22,000	+50, -20	478-2236-1-ND	1.13	.67	.39	478-2236-2-ND	1,000	183.60	W2F15C2238AT1F
	0805	X7R	50	47,000	+50, -20	478-2237-1-ND	1.13	.67	.39	478-2237-2-ND	1,000	183.60	W2F15C4738AT1F
	1206	NP0	100	47	+50, -20	478-2238-1-ND	1.10	.65	.38	478-2238-2-ND	1,000	180.00	W3F11A4708AT1F
	1206	X7R	50	2,200	+50, -20	478-2239-1-ND	1.16	.69	.40	478-2239-2-ND	1,000	189.00	W3F15C2228AT1F
	1206	X7R	50	22,000	+50, -20	478-5277-1-ND	.85	.51	.29	478-5277-2-ND	4,000	139.00/M	W3F15C2238AT1A
2	0805	NP0	100	22	+50, -20	478-5478-1-ND	.86	.51	.30	478-5478-2-ND	4,000	140.00/M	W2H11A2208AT1A
	0805	NP0	100	470	+50, -20	478-5473-1-ND	.86	.51	.30	478-5473-2-ND	1,000	140.00	W2H11A4718AT1F
	0805	X7R	25	.10µF	+50, -20	478-5489-1-ND	1.19	.71	.41	478-5489-2-ND	4,000	194.00/M	W2H13C1048AT1A
	0805	X7R	25	.10µF	+50, -20	478-5470-1-ND	1.19	.71	.41	478-5470-2-ND	1,000	194.00	W2H13C1048AT1F
	0805	X7R	50	1,000	+50, -20	478-5472-1-ND	.90	.54	.31	478-5472-2-ND	1,000	147.00	W2H15C1028AT1F
	0805	X7R	50	1,000	+50, -20	478-5477-1-ND	.90	.54	.31	478-5477-2-ND	4,000	147.00/M	W2H15C1028AT1A
	0805	X7R	50	47,000	+50, -20	478-5468-1-ND	.90	.54	.31	478-5468-2-ND	1,000	147.00	W2H15C4738AT1F
	0805	X7R	50	47,000	+50, -20	478-5476-1-ND	.90	.54	.31	478-5476-2-ND	4,000	147.00/M	W2H15C4738AT1A
3	0612	NP0	100	100	+50, -20	478-5475-1-ND	1.30	.77	.45	478-5475-2-ND	1,000	212.00	W3H11A1018AT1F
	0612	NP0	100	470	+50, -20	478-5474-1-ND	1.30	.77	.45	478-5474-2-ND	1,000	212.00	W3H11A4718AT1F
	0612	X7R	50	10,000	+50, -20	478-5471-1-ND	1.95	1.16	.67	478-5471-2-ND	1,000	319.00	W3H15C1038AT1F
	0612	X7R	50	47,000	+50, -20	478-5469-1-ND	.93	.55	.32	478-5469-2-ND	1,000	151.00	W3H15C4738AT1F
4	0612	NP0	100	22	+50, -20	478-5485-1-ND	3.31	1.96	1.13	478-5485-2-ND	1,000	541.00	W3F41A2208AT1F
	0612	NP0	100	47	+50, -20	478-5487-1-ND	1.23	.73	.42	478-5487-2-ND	1,000	201.00	W3F41A4708AT1F
	0612	NP0	100	100	+50, -20	478-5483-1-ND	3.31	1.96	1.13	478-5483-2-ND	1,000	541.00	W3F41A1018AT1F
	0612	X7R	50	220	+50, -20	478-5488-1-ND	1.23	.73	.42	478-5488-2-ND	1,000	201.00	W3F45C2218AT1F
	0612	X7R	50	470	+50, -20	478-5484-1-ND	1.32	.78	.45	478-5484-2-ND	1,000	216.00	W3F45C4718AT1F

NEW! KNH Series Capacitive Filter for Power Supply Lines

Features: Effective for filtering noise on power (Vcc) lines. **Applications:** • PC's • Laser printers • Cellular Phones • Power/Signal Lines for LCD Display • Office Equipment • AV Power Supply/Signal Line • TV • VCR • High Current Signal Lines

Capacitance	Rated Voltage (VDC)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	AVX Part No.
				10	100	500			
47,000pF	50	2	478-5853-1-ND	.77	.46	.27	478-5853-2-ND	126.00/M	KNH21C473DA3T
100,000pF	25	2	478-5854-1-ND	.77	.46	.27	478-5854-2-ND	126.00/M	KNH21C104DA3T
1.0µF	10	4	478-5855-1-ND	1.32	.78	.45	478-5855-2-ND	216.00/M	KNH21C105DA3T

Dim. in mm

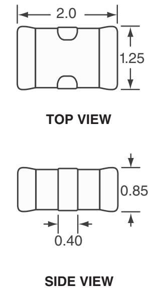

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

EMI Suppression Ferrite Chips and Arrays

BLM02A, BLM03A, BLM15A, BLM18A and BLM21A Series - For General Use: BLM-A Series generates an impedance from the relatively low frequencies. Therefore BLM-A Series is effective in noise suppression in the wide frequency range (30MHz ~ several hundred MHz).

BLM03B, BLM15B, BLM18B and BLM21B Series - For High Speed Signal: BLM-B Series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.

BLM15E, BLM18E, BLM15H and BLM18H Series - For GHz Range Noise Suppression:
BLM-H/E Series has horizontal wire wound structure that minimizes stray capacitance and increases the effective frequency range.

BLM15G Series - For High Frequency Noise Suppression over a Wide Frequency Range

BLM18K Series: Can be used in high current circuits due to its low DC resistance.

BLM03P, BLM15P, BLM18P, BLM21P, BLM31P, BLM41P and BLM18S Series - For Large Current: BLM-P/S Series can be used in high current due to its low DC resistance. It can match power lines to a maximum of 6A DC.

BLM18R Series: Can be used in digital interface.

BLA2AA and BLA2AB Series: The BLA2AA/AB Series provides attenuation across a broad frequency range. Two types of impedance characteristics are available, one is for the general signal lines and the other is for high speed signal line. The BLA2 Series original inner electrode structure enables extra low crosstalk.

BLA31A and BLA31B Series: The BLA31A/B is capable of filtering 4 circuits in a 3216 package size. BLA31A/B is suitable for EMI suppression in smaller digital equipment.

BLM02A

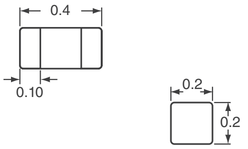

BLM03A, BLM03B and BLM03P

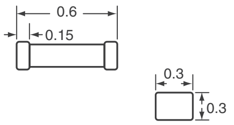

BLM15A, BLM15B, BLM15E, BLM15G, BLM15H and BLM15P

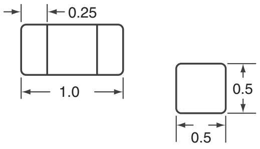

BLM18A, BLM18B, BLM18E, BLM18H, BLM18K, BLM18P, BLM18R and BLM18S

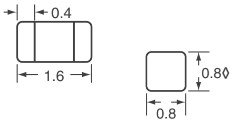

◊ BLM18S = 0.5
◊ BLM18KG_TN = 0.6

Impedance (@100MHz) (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Murata Part No.
			10	50	100	Qty.	Pricing	
BLM02 Series — 01005 Case Size								
10 (Typ.)	500	490-5160-1-ND††	2.36	10.22	18.87	20,000	110.00/M	BLM02AG100SN1D
70 ±25%	250	490-5161-1-ND††	2.36	10.22	18.87	20,000	110.00/M	BLM02AG700SN1D
120 ±25%	200	490-5162-1-ND††	2.36	10.22	18.87	20,000	110.00/M	BLM02AG121SN1D
BLM03 Series — 0201 Case Size								
10 ±25%	300	490-5166-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BB100SN1D
10 (Typ.)	500	490-2555-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG100SN1D
22 ±25%	200	490-5167-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BB220SN1D
22 ±25%	900	490-5174-1-ND††	.94	4.08	7.53	15,000	44.00/M	BLM03PG220SN1D
33 ±25%	750	490-5175-1-ND††	.94	4.08	7.53	15,000	44.00/M	BLM03PG330SN1D
47 ±25%	200	490-5168-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BB470SN1D
70 (Typ.)	200	490-2556-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG700SN1D
75 ±25%	200	490-5169-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BB750SN1D
75 ±25%	300	490-5171-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BD750SN1D
80 ±25%	200	490-5163-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG800SN1D
120 ±25%	100	490-5170-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BB121SN1D
120 ±25%	200	490-2557-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG121SN1D
120 ±25%	250	490-5172-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BD121SN1D
240 ±25%	200	490-2558-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG241SN1D
240 ±25%	200	490-5173-1-ND††	.89	3.87	7.14	15,000	42.00/M	BLM03BD241SN1D
470 ±25%	215	490-5543-1-ND†† ***NEW!***	.89	3.87	7.14	15,000	42.00/M	BLM03BD471SN1D
600 ±25%	100	490-5164-1-ND††	.88	3.80	7.02	15,000	41.00/M	BLM03AG601SN1D
600 ±25%	200	490-5544-1-ND†† ***NEW!***	.89	3.87	7.14	15,000	42.00/M	BLM03BD601SN1D
1000 ±25%	100	490-5165-1-ND††	.99	4.29	7.92	15,000	46.00/M	BLM03AG102SN1D
BLM15 Series — 0402 Case Size								
5 ±25%	300	490-5179-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA050SN1D
5 ±25%	500	490-5185-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB050SN1D
10 ±25%	300	490-5180-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA100SN1D
10 ±25%	300	490-5186-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB100SN1D
10 (Typ.)	1000	490-5176-1-NDΔ	.52	2.26	4.17	10,000	24.00/M	BLM15AG100SN1D
10 (Typ.)	1740	490-5437-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX100SN1D
22 ±25%	300	490-5181-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA220SN1D
22 ±25%	300	490-5187-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB220SN1D
30 ±25%	2200	490-5200-1-NDΔ	.66	2.84	5.25	10,000	31.00/M	BLM15PD300SN1D
33 ±25%	300	490-5182-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA330SN1D
47 ±25%	200	490-5183-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA470SN1D
47 ±25%	300	490-5188-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB470SN1D
60 ±25%	1700	490-5201-1-NDΔ	.66	2.84	5.25	10,000	31.00/M	BLM15PD600SN1D
70 (Typ.)	500	490-5177-1-NDΔ	.52	2.26	4.17	10,000	24.00/M	BLM15AG700SN1D
70 ±25%	780	490-5438-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX700SN1D
75 ±25%	200	490-5184-1-NDΔ	.62	2.68	4.95	10,000	29.00/M	BLM15BA750SN1D
75 ±25%	200	490-5199-1-NDΔ	4.16	18.04	33.30	10,000	194.00/M	BLM15GA750SN1D
75 ±25%	300	490-5189-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB750SN1D
75 ±25%	300	490-5191-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BD750SN1D
80 ±25%	1500	490-5202-1-NDΔ	.66	2.84	5.25	10,000	31.00/M	BLM15PD800SN1D
120 ±25%	300	490-1008-1-NDΔ	.56	2.44	4.50	10,000	26.25/M	BLM15BB121SN1D
120 ±25%	300	490-5192-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BD121SN1D
120 ±25%	300	490-4000-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HB121SN1D
120 ±25%	350	490-5443-1-NDΔ ***NEW!***	.56	2.44	4.50	10,000	26.00/M	BLM15BC121SN1D
120 ±25%	500	490-1005-1-NDΔ	.52	2.26	4.17	10,000	24.33/M	BLM15AG121SN1D
120 ±25%	680	490-5439-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX121SN1D
120 ±25%	1300	490-5203-1-NDΔ	.66	2.84	5.25	10,000	31.00/M	BLM15PD121SN1D
120 ±25%	1500	490-4004-1-NDΔ	1.74	7.52	13.89	10,000	81.00/M	BLM15EG121SN1D
220 ±25%	200	490-5190-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BB221SN1D
220 ±25%	250	490-4001-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HB221SN1D
220 ±25%	300	490-5178-1-NDΔ	.52	2.26	4.17	10,000	24.00/M	BLM15AG221SN1D
220 ±25%	300	490-5193-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BD221SN1D
220 ±25%	300	490-5197-1-NDΔ	4.16	18.04	33.30	10,000	194.00/M	BLM15GG221SN1D
220 ±25%	580	490-5440-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX221SN1D
220 ±25%	700	490-4005-1-NDΔ	1.74	7.52	13.89	10,000	81.00/M	BLM15EG221SN1D
240 ±25%	250	490-5444-1-NDΔ ***NEW!***	.56	2.44	4.50	10,000	26.00/M	BLM15BC241SN1D
470 ±25%	200	490-5194-1-NDΔ	.56	2.44	4.50	10,000	26.00/M	BLM15BD471SN1D
470 ±25%	200	490-5198-1-NDΔ	4.16	18.04	33.30	10,000	194.00/M	BLM15GG471SN1D
600 ±25%	200	490-1009-1-NDΔ	.56	2.44	4.50	10,000	26.25/M	BLM15BD601SN1D
600 ±25%	300	490-1006-1-NDΔ	.52	2.26	4.17	10,000	24.33/M	BLM15AG601SN1D
600 ±25%	300	490-3998-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HG601SN1D
600 ±25%	300	490-4002-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HD601SN1D
600 ±25%	420	490-5441-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX601SN1D
1000 ±25%	200	490-1010-1-NDΔ	.56	2.44	4.50	10,000	26.25/M	BLM15BD102SN1D
1000 ±25%	200	490-1007-1-NDΔ	.52	2.26	4.17	10,000	24.00/M	BLM15AG102SN1D
1000 ±25%	250	490-3999-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HG102SN1D
1000 ±25%	250	490-4003-1-NDΔ	1.41	6.13	11.31	10,000	66.00/M	BLM15HD102SN1D
1000 ±25%	350	490-5442-1-NDΔ ***NEW!***	.62	2.67	4.92	10,000	29.00/M	BLM15AX102SN1D
1800 ±25%	100	490-5195-1-NDΔ	.70	3.04	5.61	10,000	33.00/M	BLM15BD182SN1D
1800 ±25%	200	490-5196-1-NDΔ	1.73	7.48	13.80	10,000	81.00/M	BLM15HD182SN1D
BLM18 Series — 0603 Case Size								
5 ±25%	500	490-5204-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18BA050SN1D
5 ±25%	700	490-5206-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB050SN1D
10 ±25%	500	490-5205-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18BA100SN1D
10 ±25%	700	490-5207-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB100SN1D
22 ±25%	500	490-1016-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BA220SN1D
22 ±25%	600	490-5246-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB220SN1D
26 ±25%	6000	490-5252-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG260TN1D
26 ±25%	6000	490-3995-1-ND§	.88	3.82	7.05	10,000	33.00/M	BLM18SG260TN1D
30 (Typ.)	1000	490-1035-1-ND§	.52	2.24	4.14	4,000	24.15/M	BLM18PG300SN1D
30 ±25%	5000	490-5447-1-ND§ ***NEW!***	.54	2.34	4.32	4,000	25.20/M	BLM18KG300TN1D
33 ±25%	3000	490-5220-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG330SN1D
47 ±25%	300	490-1017-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BA470SN1D
47 ±25%	500	490-5211-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD470SN1D
47 ±25%	550	490-5208-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB470SN1D
60 (Typ.)	500	490-1036-1-ND§	.52	2.24	4.14	4,000	24.15/M	BLM18PG600SN1D
60 ±25%	550	490-5247-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB600SN1D
70 ±25%	3500	490-5253-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG700TN1D

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

BLM21A, BLM21B and BLM21P

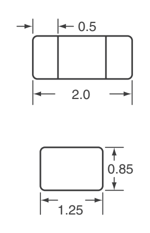

BLM31P

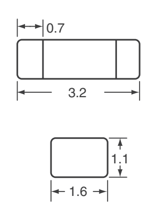

BLM41P

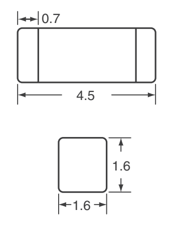

BLA2AA and BLA2AB

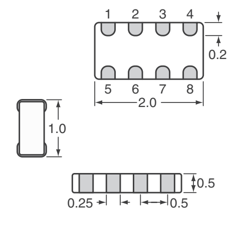

BLA31A and BLA31B

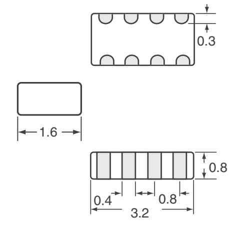

Impedance (@ 100MHz) (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Murata Part No.
			10	50	100	Qty.	Pricing	
70 ±25%	4000	490-5224-1-ND§	.88	3.82	7.05	10,000	41.00/M	BLM18SG700TN1D
75 ±25%	300	490-1018-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BA750SN1D
75 ±25%	500	490-5209-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB750SN1D
100 ±25%	3000	490-5448-1-ND§ ***NEW!***	.54	2.34	4.32	4,000	25.20/M	BLM18KG101TN1D
120 ±25%	200	490-5212-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD121SN1D
120 ±25%	200	490-1019-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BA121SN1D
120 ±25%	200	490-5226-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18RK121SN1D
120 ±25%	500	490-1011-1-ND§	.49	2.13	3.93	4,000	22.93/M	BLM18AG121SN1D
120 ±25%	500	490-1020-1-ND§	.54	2.34	4.32	4,000	25.20/M	BLM18BB121SN1D
120 ±25%	2000	490-3991-1-ND	1.71	7.39	13.65	4,000	80.00/M	BLM18EG121SN1D
120 ±25%	2000	490-1037-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG121SN1D
120 ±25%	3000	490-5254-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG121TN1D
120 ±25%	3000	490-3996-1-ND§	.88	3.82	7.05	10,000	33.00/M	BLM18SG121TN1D
150 ±25%	200	490-5250-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD151SN1D
150 ±25%	450	490-5248-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB151SN1D
150 ±25%	500	490-5244-1-ND§	.49	2.13	3.93	4,000	23.00/M	BLM18AG151SN1D
180 ±25%	1500	490-5263-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG181SN1D
220 ±25%	200	490-5213-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD221SN1D
220 ±25%	450	490-5210-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB221SN1D
220 ±25%	500	490-1012-1-ND§	.49	2.13	3.93	4,000	22.93/M	BLM18AG221SN1D
220 ±25%	1400	490-5221-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG221SN1D
220 ±25%	2000	490-3992-1-ND	1.71	7.39	13.65	4,000	80.00/M	BLM18EG221SN1D
220 ±25%	2200	490-5255-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG221SN1D
220 ±25%	2500	490-5225-1-ND§	.88	3.82	7.05	10,000	41.00/M	BLM18SG221TN1D
330 ±25%	200	490-5251-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD331SN1D
330 ±25%	400	490-5249-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BB331SN1D
330 ±25%	500	490-5245-1-ND§	.49	2.13	3.93	4,000	23.00/M	BLM18AG331SN1D
330 ±25%	1200	490-5222-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG331SN1D
330 ±25%	1500	490-3997-1-ND§	.88	3.82	7.05	10,000	41.00/M	BLM18SG331TN1D
330 ±25%	1700	490-5256-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG331SN1D
420 ±25%	200	490-5259-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18BD421SN1D
470 ±25%	100	490-1029-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD471SN1D
470 ±25%	200	490-1022-1-ND§	.54	2.34	4.32	4,000	25.20/M	BLM18BD471SN1D
470 ±25%	200	490-1032-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG471SN1D
470 ±25%	200	490-5217-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HK471SN1D
470 ±25%	200	490-5264-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18RK471SN1D
470 ±25%	300	490-1021-1-ND§	.54	2.34	4.32	4,000	25.20/M	BLM18BB471SN1D
470 ±25%	500	490-1013-1-ND§	.49	2.13	3.93	4,000	22.93/M	BLM18AG471SN1D
470 ±25%	500	490-3993-1-ND	1.71	7.39	13.65	4,000	80.00/M	BLM18EG471SN1D
470 ±25%	1000	490-5223-1-ND§	.52	2.24	4.14	4,000	24.00/M	BLM18PG471SN1D
470 ±25%	1500	490-5257-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG471SN1D
600 ±25%	100	490-1030-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD601SN1D
600 ±25%	100	490-5218-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HK601SN1D
600 ±25%	200	490-1023-1-ND§	.54	2.34	4.32	4,000	25.20/M	BLM18BD601SN1D
600 ±25%	200	490-1033-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG601SN1D
600 ±25%	200	490-5227-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18RK601SN1D
600 ±25%	500	490-1014-1-ND§	.49	2.13	3.93	4,000	23.00/M	BLM18AG601SN1D
600 ±25%	500	490-3994-1-ND	1.71	7.39	13.65	4,000	80.00/M	BLM18EG601SN1D
600 ±25%	800	490-5214-1-ND	1.36	5.88	10.86	4,000	63.00/M	BLM18HE601SN1D
600 ±25%	1300	490-5258-1-ND§	.54	2.34	4.32	4,000	25.00/M	BLM18KG601SN1D
1000 ±25%	50	490-1031-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD102SN1D
1000 ±25%	50	490-5219-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HK102SN1D
1000 ±25%	100	490-1034-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG102SN1D
1000 ±25%	100	490-1024-1-ND§	.54	2.34	4.32	4,000	25.20/M	BLM18BD102SN1D
1000 ±25%	200	490-5228-1-ND§	.56	2.44	4.50	4,000	26.00/M	BLM18RK102SN1D
1000 ±25%	400	490-1015-1-ND§	.49	2.13	3.93	4,000	23.00/M	BLM18AG102SN1D

Impedance (@ 100MHz) (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Murata Part No.
			10	50	100	Qty.	Pricing	
1000 ±25%	600	490-5215-1-ND	1.36	5.88	10.86	4,000	63.00/M	BLM18HE102SN1D
1500 ±25%	50	490-1025-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BD152SN1D
1500 ±25%	500	490-5216-1-ND	1.56	6.74	12.45	4,000	73.00/M	BLM18HE152SN1D
1800 ±25%	50	490-1026-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BD182SN1D
2200 ±25%	50	490-1027-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BD222SN1D
2500 ±25%	50	490-1028-1-ND§	.56	2.44	4.50	4,000	26.25/M	BLM18BD252SN1D
BLM21 Series — 0805 Case Size								
30 (Typ.)	3000	490-1052-1-ND	.71	3.06	5.64	4,000	33.00/M	BLM21PG300SN1D
60 (Typ.)	3000	490-1053-1-ND	.71	3.06	5.64	4,000	32.90/M	BLM21PG600SN1D
120 ±25%	200	490-1038-1-ND	.75	3.27	6.03	4,000	35.18/M	BLM21AG121SN1D
120 ±25%	200	490-1044-1-ND	.81	3.49	6.45	4,000	37.63/M	BLM21BD121SN1D
120 ±25%	200	490-1042-1-ND	.81	3.49	6.45	4,000	37.63/M	BLM21BB121SN1D
220 (Typ.)	2000	490-1054-1-ND	.56	2.41	4.44	4,000	26.00/M	BLM21PG221SN1D
470 ±25%	200	490-1039-1-ND	.80	3.46	6.39	4,000	37.28/M	BLM21AG471SN1D
470 ±25%	200	490-1045-1-ND	.81	3.49	6.45	4,000	37.63/M	BLM21BD471SN1D
470 ±25%	200	490-1043-1-ND	.81	3.49	6.45	4,000	37.63/M	BLM21BB471SN1D
600 ±25%	200	490-1040-1-ND	.77	3.32	6.12	4,000	35.70/M	BLM21AG601SN1D
600 ±25%	200	490-1046-1-ND	.86	3.74	6.90	4,000	40.25/M	BLM21BD601SN1D
1000 ±25%	200	490-1047-1-ND	.90	3.92	7.23	4,000	42.18/M	BLM21BD102SN1D
1000 ±25%	200	490-1041-1-ND	.90	3.88	7.17	4,000	41.83/M	BLM21AG102SN1D
1500 ±25%	200	490-1048-1-ND	1.20	5.22	9.63	4,000	56.00/M	BLM21BD152SN1D
1800 ±25%	200	490-1049-1-ND	1.20	5.22	9.63	4,000	56.00/M	BLM21BD182SN1D
2200 ±25%	200	490-1050-1-ND	1.20	5.22	9.63	4,000	56.00/M	BLM21BD222TN1D
2700 ±25%	200	490-1051-1-ND	1.20	5.22	9.63	3,000	56.00/M	BLM21BD272SN1L
BLM31 Series — 1206 Case Size								
50 (Typ.)	3000	490-1055-1-ND	2.00	8.65	15.96	3,000	93.00/M	BLM31PG500SN1L
120 (Typ.)	3000	490-1056-1-ND	2.00	8.65	15.96	3,000	93.00/M	BLM31PG121SN1L
390 ±25%	2000	490-5229-1-ND	2.00	8.65	15.96	3,000	93.00/M	BLM31PG391SN1L
600 (Typ.)	1500	490-1057-1-ND	2.00	8.65	15.96	3,000	93.00/M	BLM31PG601SN1L
BLM41 Series — 1806 Case Size								
60 (Typ.)	6000	490-1058-1-ND	2.65	11.47	21.18	2,500	123.56/M	BLM41PG600SN1L
75 (Typ.)	3000	490-4013-1-ND	2.65	11.47	21.18	2,500	124.00/M	BLM41PG750SN1L
80 (Typ.)	1000	490-1059-1-ND	2.28	9.88	18.24	2,500	106.40/M	BLM41PF800SN1L
180 ±25%	3000	490-5230-1-ND	2.39	10.35	19.11	2,500	111.00/M	BLM41PG181SN1L
470 (Typ.)	2000	490-1060-1-ND	2.43	10.53	19.44	2,500	113.40/M	BLM41PG471SN1L
1000 (Typ.)	1500	490-1061-1-ND	2.68	11.60	21.42	2,500	124.96/M	BLM41PG102SN1L
BLA2 Series — 0804 Case Size								
120 ±25%	50	490-4009-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2ABB121SN4D
120 ±25%	200	490-4011-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2ABD121SN4D
120 ±25%	100	490-4006-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2AAG121SN4D
220 ±25%	50	490-4010-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2ABB221SN4D
600 ±25%	50	490-4007-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2AAG601SN4D
600 ±25%	100	490-4012-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2ABD601SN4D
1000 ±25%	50	490-4092-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2ABD102SN4D
1000 ±25%	50	490-4008-1-ND	3.99	17.27	31.89	10,000	186.00/M	BLA2AAG102SN4D
BLA31 Series — SMD Array								
120 ±25%	150	490-1000-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG121SN4D
120 ±25%	150	490-1003-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31BD121SN4D
600 ±25%	100	490-1004-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31BD601SN4D
600 ±25%	100	490-1001-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG601SN4D
1000 ±25%	50	490-1002-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG102SN4D

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Kits

Δ **490-5445-ND** (EKEMBL15L)	Kit contains 10 each of values denoted (500 total pieces)	**$92.50**
§ **490-5446-ND** (EKEMBL18H)	Kit contains 10 each of values denoted (620 total pieces)	**$101.75**
†† **490-5545-ND** (EKEMBL03E)	Kit contains 10 each of values denoted (220 total pieces)	**$49.95**

Innovator in Electronics

Chip EMI Filters Capacitor Type

NFM21CC Series: The chip EMIFIL NFM21C series is a chip type 3-terminal EMI suppression filter. It can reduce residual inductance to an extremely low level making it excellent for noise suppression at high frequencies.

NFM21PC Series: NFM21P is a 3-terminal structure component. This product can be applied to large current DC power lines. NFM21P is suitable for noise suppression of DC power lines where relatively large current operates.

NFE31PT Series: Its large rated current of 6A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics. The structure incorporates built-in ferrite beads which minimize resonance with surrounding circuits.

NFM41PC Series: The chip EMIFIL NFM41P series consists of 3-terminal structure. These components are able to be applied to large current DC power lines. NFM41P series are suitable in noise suppression in DC lines where relatively large currents operate.

NFE61PT Series: Its large rated current of 2A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics.

Capaci-tance	Rated Voltage (Vdc)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Murata Part No.
NFM21CC Series — 0805 Case Size										
22pF	50	700	490-2532-1-ND	.25	2.15	9.90	16.50	4,000	115.50/M	NFM21CC220U1H3D
47pF	50	700	490-2533-1-ND	.25	2.15	9.90	16.50	4,000	115.50/M	NFM21CC470U1H3D
100pF	50	700	490-2534-1-ND	.25	2.15	9.90	16.50	4,000	115.50/M	NFM21CC101U1H3D
2200pF	50	1000	490-2535-1-ND	.24	2.04	9.42	15.70	4,000	109.90/M	NFM21CC222R1H3D
NFM21PC Series — 0805 Case Size										
0.10µF	25	2000	490-2536-1-ND	.19	1.62	7.49	12.48	4,000	87.33/M	NFM21PC104R1E3D
0.47µF	16	2000	490-2537-1-ND	.22	1.93	8.91	14.85	4,000	103.95/M	NFM21PC474R1C3D
1.0µF	16	4000	490-3912-1-ND	.24	2.04	9.41	15.68	4,000	110.00/M	NFM21PC105B1C3D
NFE31PT Series — 1206 Case Size										
22pF	25	6000	490-2544-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT220R1E9L
100pF	25	6000	490-2545-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT101C1E9L
470pF	25	6000	490-2546-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT471F1E9L
2200pF	25	6000	490-2547-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT222Z1E9L
NFM41PC Series — 1806 Case Size										
0.20µF	50	2000	490-2550-1-ND	.84	7.25	33.45	55.75	4,000	390.25/M	NFM41PC204F1H3L
NFE61PT Series — 2606 Case Size										
33pF	50	2000	490-2551-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT330B1H9L
680pF	50	2000	490-2552-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT681B1H9L
1000pF	50	2000	490-2553-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT102E1H9L
4700pF	50	2000	490-2554-1-ND	.85	7.39	34.13	56.88	2,500	398.13/M	NFE61PT472C1H9L

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NFM21CC Series

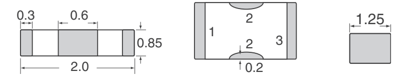

NFM21PC Series

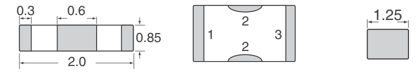

NFE31PT Series

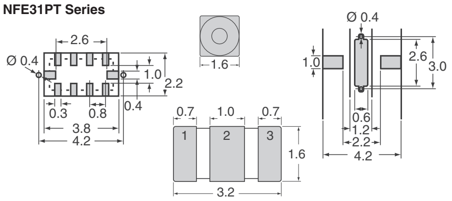

NFM41PC Series

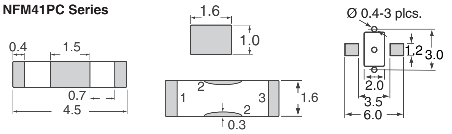

NFE61PT Series

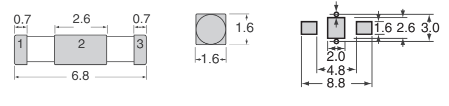

LC Combined Chip EMIFIL®

NFL18ST Series: The NFL18ST series is an EMI suppression filter for high speed signal lines, achieving T-type structure in 1.6 x 0.8mm size with Murata's multilayer technology. Noise suppression for video signal lines (RGB lines) and high speed clock lines.

NFL21S Series: Murata's original internal structure design enables excellent noise suppression up to high frequencies. Available in five different values of cut off frequency ranging from 20MHz up to 500MHz.

NFW31S Series: The signal line chip EMI filter NFW31S series consists of high performance EMI suppression filters LC combined wound type. They are designed for noise suppression in high speed signal digital circuits in which the signal harmonics are prone to becoming noise sources. These filters achieve a 100dB/dec. (typical) damping characteristic with Murata's innovative circuit design. This makes these chips effective in applications where the signal and noise frequencies are close to each other.

Cut-off Freq. (MHz)	Cap. (pF)	Induc-tance (nH)	Rated Voltage (Vdc)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape and Reel‡ Pricing 4,000	Murata Part No.
NFL18ST Series											
150	32	140	16	100	490-2531-1-ND	.50	4.37	20.19	33.65	235.55/M	NFL18ST157X1C3D
200	25	110	16	150	490-4014-1-ND	.50	4.37	20.19	33.65	236.00/M	NFL18ST207X1C3D
300	18	62	16	200	490-2530-1-ND	.50	4.37	20.19	33.65	235.55/M	NFL18ST307X1C3D
500	10	43	16	200	490-4015-1-ND	.50	4.37	20.19	33.65	236.00/M	NFL18ST507X1C3D
NFL21S Series											
10	670	680	16	100	490-4016-1-ND	.40	3.43	15.84	26.40	185.00/M	NFL21SP106X1C3D
20	240	700	16	100	490-4540-1-ND	.40	3.43	15.84	26.40	185.00/M	NFL21SP206X1C7D
50	84	305	16	150	490-2542-1-ND	.40	3.43	15.84	26.40	184.80/M	NFL21SP506X1C3D
70	76	185	16	150	490-2541-1-ND	.37	3.22	14.88	24.80	173.60/M	NFL21SP706X1C3D
100	44	135	16	200	490-2540-1-ND	.29	2.54	11.72	19.53	136.68/M	NFL21SP107X1C3D
300	19	45	16	300	490-2539-1-ND	.28	2.40	11.07	18.45	129.15/M	NFL21SP307X1C3D

Nominal Cut-off Freq. (MHz)	Attenuation @10 MHz (dB)	Attenuation @400 MHz (dB)	Digi-Key Part No.	Pricing 1	10	50	100	Tape and Reel‡ Pricing 2,000	Murata Part No.
NFW31S Series									
10	6 maximum	—	490-2548-1-ND	.79	6.86	31.65	52.75	369.00/M	NFW31SP106X1E4L
400	—	6 maximum	490-2549-1-ND	.79	6.86	31.65	52.75	369.00/M	NFW31SP407X1E4L

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NFL18ST Series

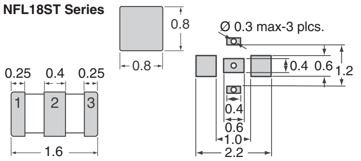

NFL21S Series

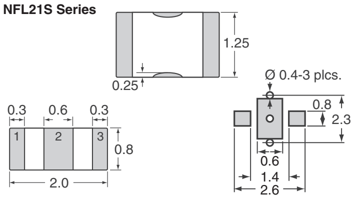

NFW31S Series

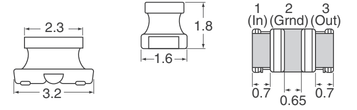

Block Type EMIFIL® LC Combined Type Filters

The block type EMIFIL BNX series incorporates through-type, monolithic chip and bead capacitors. The BNX capacitors are high performance capacitors, for use in DC power circuits.

Features:

• Enables obtaining high insertion loss in wide frequency ranges from 0.5MHz ~ 1GHz • Effective for impulse noise such as electrostatic discharge or spike noise

Applications:

• Displays • Digital AV equipment • Amusement equipment • PC peripheral equipment • Industry equipment

Fig. 1

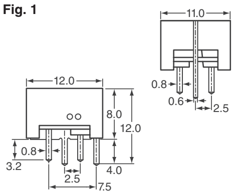

Fig. 2

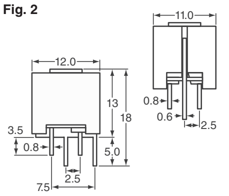

Fig. 3

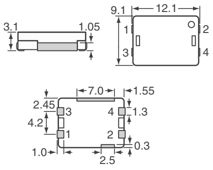

Fig.	Rated Voltage (Vdc)	Rated Current (A)	Insulation Resistance Min. (Ohm)	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 400	Murata Part No.
1	25	15	50M	490-5055-ND	5.93	51.38	237.12	—	—	BNX016-01
	50	15	500M	490-5054-ND	5.93	51.38	237.12	—	—	BNX012-01
2	50	10	100M	490-5053-ND	11.90	103.09	475.80	—	—	BNX002-01
3	50	10	500M	490-5052-1-ND†	6.35	55.04	254.01	490-5052-2-ND	1185.20	BNX022-01L

† Cut Tape

Steward | a unit of Laird Technologies

Surface Mount EMI Suppression Ferrite Chips for Signal and Power Filtering

Chips up to 10 Amps continuous operation

Applications:

- Filters power input pins of oscillators and logic devices using high speed clocks
- Filters low frequency input/output signals entering/exiting shielded enclosures
- High frequency filtering of medium speed clocks and video signals

RoHS COMPLIANT

Digi-Reel®

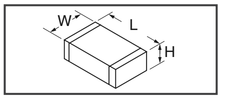

Steward's Part Number Prefix Code

DM: Differential Mode and Ultra High Current
HI: High Current
HR: High Retention under bias
HZ: High Impedance
LI: Low Current
LF: Low Frequency
MI: Mid Current

Size Code	Dimensions – mm			Current Rating Max. (mA) Continuous	Typical Impedance @ 100MHz (Ω)	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel				Steward Part No.
	L	W	H						10	50	100		Qty.	Pricing	Qty.	Pricing	
0201	0.60	0.30	0.30	300	33	171	1,646	240-2591-1-ND	1.42	6.14	11.34	240-2591-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201C330R-10
	0.60	0.30	0.30	300	56	268	1,347	240-2592-1-ND	1.42	6.14	11.34	240-2592-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201C560R-10
	0.60	0.30	0.30	200	80	225	978	240-2593-1-ND	1.42	6.14	11.34	240-2593-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201B800R-10
	0.60	0.30	0.30	300	80	434	903	240-2594-1-ND	1.42	6.14	11.34	240-2594-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201C800R-10
	0.60	0.30	0.30	500	80	120	605	240-2595-1-ND	1.42	6.14	11.34	240-2595-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201E800R-10
	0.60	0.30	0.30	200	120	275	800	240-2596-1-ND	1.42	6.14	11.34	240-2596-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201B121R-10
	0.60	0.30	0.30	300	120	190	630	240-2597-1-ND	1.42	6.14	11.34	240-2597-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201C121R-10
	0.60	0.30	0.30	200	240	619	390	240-2598-1-ND	1.42	6.14	11.34	240-2598-2-ND	15,000	66.15/M	30,000	62.37/M	LI0201B241R-10
0402	1.01	0.50	0.50	200	300	549	374	240-2360-1-ND	.89	3.87	7.14	240-2360-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402B301R-10
	1.01	0.50	0.50	200	80	243	769	240-2553-1-ND	.89	3.87	7.14	240-2553-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402B800R-10
	1.01	0.50	0.50	300	220	453	440	240-2554-1-ND	.89	3.87	7.14	240-2554-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402C221R-10
	1.01	0.50	0.50	300	47	59	1,402	240-2589-1-ND	.79	3.41	6.30	240-2589-2-ND	10,000	36.75/M	30,000	34.65/M	LI0402C470R-10
	1.01	0.50	0.50	400	120	213	682	240-2361-1-ND	.83	3.59	6.63	240-2361-2-ND	10,000	39.00/M	30,000	36.00/M	LI0402D121R-10
	1.01	0.50	0.50	500	19	24	1,519	240-2590-1-ND	.79	3.41	6.30	240-2590-2-ND	10,000	36.75/M	30,000	34.65/M	LI0402E190R-10
	1.01	0.50	0.50	500	30	58	1,195	240-2362-1-ND	.89	3.87	7.14	240-2362-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402E300R-10
	1.01	0.50	0.50	500	60	97	801	240-2363-1-ND	.89	3.87	7.14	240-2363-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402E600R-10
	1.01	0.50	0.50	50	1,500	1,875	143	240-2588-1-ND	1.13	4.91	9.06	240-2588-2-ND	10,000	52.85/M	30,000	49.83/M	HZ0402A152R-10
	1.01	0.50	0.50	100	600	965	241	240-2364-1-ND	.81	3.53	6.51	240-2364-2-ND	10,000	38.00/M	30,000	36.00/M	HZ0402A601R-10
	1.01	0.50	0.50	200	1,000	1,116	182	240-2555-1-ND	.98	4.24	7.83	240-2555-2-ND	10,000	46.00/M	30,000	43.00/M	HZ0402B102R-10
0603	1.60	0.80	0.80	400	300	389	261	240-2365-1-ND	.70	3.02	5.58	240-2365-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603D301R-10
	1.60	0.80	0.80	500	47	91	1,000	240-2557-1-ND	.70	3.02	5.58	240-2557-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603E470R-10
	1.60	0.80	0.80	500	150	209	332	240-2366-1-ND	.70	3.02	5.58	240-2366-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603E151R-10
	1.60	0.80	0.80	700	120	177	389	240-2367-1-ND	.58	2.52	4.65	240-2367-2-ND	4,000	27.00/M	12,000	25.00/M	LI0603G121R-10
	1.60	0.80	0.80	700	220	283	251	240-2368-1-ND	.70	3.02	5.58	240-2368-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603G221R-10
	1.60	0.80	0.80	700	80	101	500	240-2369-1-ND	.70	3.02	5.58	240-2369-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603G800R-10
	1.60	0.80	0.80	1,000	60	96	700	240-2370-1-ND	.81	3.53	6.51	240-2370-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603J600R-10
	1.60	0.80	0.80	1,000	600	620	150	240-2371-1-ND	.87	3.77	6.96	240-2371-2-ND	4,000	41.00/M	12,000	37.00/M	MI0603J601R-10
	1.60	0.80	0.80	1,000	68	110	650	240-2372-1-ND	.81	3.53	6.51	240-2372-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603J680R-10
	1.60	0.80	0.80	1,500	30	45	1,000	240-2373-1-ND	.81	3.53	6.51	240-2373-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603K300R-10
	1.60	0.80	0.80	2,000	300	412	200	240-2374-1-ND	.95	4.13	7.62	240-2374-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603L301R-10
	1.60	0.80	0.80	2,000	220	240	280	240-2558-1-ND	.95	4.13	7.62	240-2558-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603L221R-10
	1.60	0.80	0.80	2,500	120	171	420	240-2375-1-ND	.95	4.13	7.62	240-2375-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603M121R-10
	1.60	0.80	0.80	4,000	60	100	750	240-2376-1-ND	.95	4.13	7.62	240-2376-2-ND	4,000	44.00/M	12,000	41.00/M	HI0603P600R-10
	1.60	0.80	0.80	50	2,500	3,065	149	240-2561-1-ND	.83	3.58	6.60	240-2561-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A252R-10
	1.60	0.80	0.80	100	1,500	2,306	190	240-2559-1-ND	.83	3.58	6.60	240-2559-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A152R-10
	1.60	0.80	0.80	100	2,200	3,051	122	240-2377-1-ND	.83	3.58	6.60	240-2377-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A222R-10
	1.60	0.80	0.80	200	1,000	992	135	240-2378-1-ND	.63	2.71	5.01	240-2378-2-ND	4,000	29.00/M	12,000	27.00/M	HZ0603B102R-10
	1.60	0.80	0.80	200	1,100	1,539	288	240-2379-1-ND	.83	3.58	6.60	240-2379-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603B112R-10
	1.60	0.80	0.80	200	750	863	137	240-2547-1-ND	.70	3.02	5.58	240-2547-2-ND	4,000	33.00/M	12,000	30.00/M	HZ0603B751R-10
	1.60	0.80	0.80	300	600	775	168	240-2380-1-ND	.63	2.71	5.01	240-2380-2-ND	4,000	29.00/M	12,000	27.00/M	HZ0603C601R-10
	1.60	0.80	0.80	300	650	964	380	240-2381-1-ND	.81	3.53	6.51	240-2381-2-ND	4,000	38.00/M	12,000	35.00/M	HZ0603C651R-10
0805	2.00	1.25	0.90	700	200	272	250	240-2549-1-ND	.75	3.25	6.00	240-2549-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805G201R-10
	2.00	1.25	0.90	700	300	350	205	240-2382-1-ND	.75	3.25	6.00	240-2382-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805G301R-10
	2.00	1.25	0.90	800	120	171	340	240-2383-1-ND	.75	3.25	6.00	240-2383-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H121R-10
	2.00	1.25	0.90	800	150	209	400	240-2384-1-ND	.75	3.25	6.00	240-2384-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H151R-10
	2.00	1.25	0.90	800	75	132	769	240-2385-1-ND	.75	3.25	6.00	240-2385-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H750R-10
	2.00	1.25	1.25	100	1,267	5,138	25	240-2563-1-ND	1.29	5.59	10.32	240-2563-2-ND	2,000	60.00/M	6,000	57.00/M	LF0805A252R-10
	2.00	1.25	0.90	1,000	1,000	1,112	120	240-2551-1-ND	1.03	4.45	8.22	240-2551-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805J102R-10
	2.00	1.25	0.90	1,500	11	20	1,000	240-2387-1-ND	.91	3.93	7.26	240-2387-2-ND	4,000	42.00/M	12,000	39.00/M	MI0805K110R-10
	2.00	1.25	0.90	1,500	40	69	903	240-2389-1-ND	.91	3.93	7.26	240-2389-2-ND	4,000	42.00/M	12,000	39.00/M	MI0805K400R-10
	2.00	1.25	0.90	1,500	600	723	130	240-2390-1-ND	.96	4.18	7.71	240-2390-2-ND	4,000	45.00/M	12,000	41.00/M	MI0805K601R-10
	2.00	1.25	0.90	2,000	300	350	200	240-2391-1-ND	1.03	4.45	8.22	240-2391-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805L301R-10
	2.00	1.25	0.90	2,500	220	284	260	240-2392-1-ND	.96	4.18	7.71	240-2392-2-ND	4,000	45.00/M	12,000	41.00/M	MI0805M221R-10
	2.00	1.25	0.90	3,500	120	167	270	240-2393-1-ND	1.03	4.45	8.22	240-2393-2-ND	4,000	48.00/M	12,000	44.00/M	HI0805O121R-10
	2.00	1.25	0.90	4,500	31	45	800	240-2394-1-ND	1.03	4.45	8.22	240-2394-2-ND	4,000	48.00/M	12,000	44.00/M	HI0805Q310R-10
	2.00	1.25	0.90	5,000	80	100	200	240-2395-1-ND	.89	3.84	7.08	240-2395-2-ND	4,000	41.00/M	12,000	38.00/M	HI0805R800R-10
	2.00	1.25	0.90	200	2,700	2,900	88	240-2504-1-ND	1.47	6.37	11.76	240-2504-2-ND	2,000	69.00/M	6,000	65.00/M	HZ0805B272R-10
	2.00	1.25	0.90	300	2,000	2,000	100	240-2396-1-ND	.96	4.18	7.71	240-2396-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805C202R-10
	2.00	1.25	0.90	400	1,000	1,268	113	240-2397-1-ND	.75	3.25	6.00	240-2397-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0805D102R-10
	2.00	1.25	0.90	400	1,500	1,525	110	240-2398-1-ND	.96	4.18	7.71	240-2398-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805D152R-10
	2.00	1.25	0.90	500	600	696	155	240-2399-1-ND	.70	3.02	5.58	240-2399-2-ND	4,000	33.00/M	12,000	30.00/M	HZ0805E601R-10
	2.00	1.25	0.90	700	470	572	149	240-2400-1-ND	.75	3.25	6.00	240-2400-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0805G471R-10
	2.00	1.25	1.25	200	2,200	2,200	100	240-2562-1-ND	.96	4.18	7.71	240-2562-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0805B222R-10
1206	3.20	1.60	1.10	2,000	390	460	130	240-2578-1-ND	.98	4.23	7.80	240-2578-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206L391R-10
	3.20	1.60	1.10	800	120	145	422	240-2401-1-ND	.90	3.92	7.23	240-2401-2-ND	3,000	42.00/M	6,000	40.00/M	LI1206H121R-10
	3.20	1.60	1.10	800	150	182	241	240-2402-1-ND	.90	3.92	7.23	240-2402-2-ND	3,000	42.00/M	6,000	40.00/M	LI1206H151R-10
	3.20	1.60	1.10	100	915	5,650	19	240-2564-1-ND	1.29	5.59	10.32	240-2564-2-ND	3,000	60.00/M	6,000	57.00/M	LF1206A302R-10
	3.20	1.60	1.10	300	915	2,505	41	240-2565-1-ND	1.13	4.89	9.03	240-2565-2-ND	3,000	53.00/M	6,000	50.00/M	LF1206C202R-10
	3.20	1.60	1.10	500	950	1,564	57	240-2566-1-ND	1.01	4.36	8.04	240-2566-2-ND	3,000	47.00/M	6,000	44.00/M	LF1206E152R-10
	3.20	1.60	1.10	1,500	26	46	1,000	240-2403-1-ND	.98	4.23	7.80	240-2403-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K260R-10
	3.20	1.60	1.10	1,500	31	41	1,018	240-2404-1-ND	.98	4.23	7.80	240-2404-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K310R-10
	3.20	1.60	1.10	1,500	600	650	79	240-2405-1-ND	.98	4.23	7.80	240-2405-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K601R-10
	3.20	1.60	1.10	1,500	90	154	867	240-2406-1-ND	.98	4.23	7.80	240-2406-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K900R-10

(Continued)

Surface Mount EMI Suppression Ferrite Chips for Signal and Power Filtering *(Cont.)*

Size Code	Dimensions – mm			Current Rating Max. (mA) Continuous	Typical Impedance @ 100MHz (Ω)	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel				Steward Part No.
	L	W	H						10	50	100		Qty.	Pricing	Qty.	Pricing	
1206	3.20	1.60	1.10	2,000	500	500	100	240-2407-1-ND	.98	4.23	7.80	240-2407-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206L501R-10
	3.20	1.60	1.10	3,000	100	149	600	240-2408-1-ND	.97	4.19	7.74	240-2408-2-ND	3,000	45.00/M	6,000	43.00/M	HI1206N101R-10
	3.20	1.60	1.10	3,000	80	131	800	240-2409-1-ND	.98	4.23	7.80	240-2409-2-ND	3,000	46.00/M	6,000	43.00/M	HI1206N800R-10
	3.20	1.60	1.10	4,000	120	144	300	240-2410-1-ND	.90	3.92	7.23	240-2410-2-ND	3,000	42.00/M	6,000	40.00/M	HI1206P121R-10
	3.20	1.60	1.35	6,000	160	229	250	240-2411-1-ND	1.26	5.48	10.11	240-2411-2-ND	2,000	59.00/M	6,000	56.00/M	HI1206T161R-10
	3.20	1.60	1.10	6,000	50	70	1,000	240-2412-1-ND	.48	2.06	3.81	240-2412-2-ND	3,000	22.00/M	6,000	21.00/M	HI1206T500R-10
	3.20	1.60	1.10	300	915	2,505	41	240-2413-1-ND	1.10	4.75	8.76	240-2413-2-ND	3,000	51.00/M	6,000	48.00/M	HZ1206C202R-10
	3.20	1.60	1.10	400	1,000	1,000	100	240-2414-1-ND	.90	3.92	7.23	240-2414-2-ND	3,000	42.00/M	6,000	40.00/M	HZ1206D102R-10
	3.20	1.60	1.10	500	1,500	1,564	57	240-2548-1-ND	.98	4.23	7.80	240-2548-2-ND	3,000	46.00/M	6,000	43.00/M	HZ1206E152R-10
	3.20	1.60	1.10	500	600	674	75	240-2415-1-ND	.90	3.92	7.23	240-2415-2-ND	3,000	42.00/M	6,000	40.00/M	HZ1206E601R-10
1210	3.20	2.50	1.40	1,500	60	100	900	240-2416-1-ND	1.48	6.42	11.85	240-2416-2-ND	3,000	69.00/M	6,000	65.00/M	MI1210K600R-10
1612	4.06	3.05	2.28	10,000	56	81	940	240-2417-1-ND	5.63	24.38	45.00	240-2417-2-ND	2,500	270.00/M	5,000	254.00/M	DM1612X560R-10
	4.06	3.05	2.28	10,000	56	81	1,000	240-2499-1-ND	4.15	17.99	33.21	240-2499-2-ND	5,000	183.00/M	10,000	177.00/M	HI1612X560R-10
1806	4.50	1.52	1.60	3,000	91	150	1,000	240-2541-1-ND	1.51	6.55	12.09	240-2541-2-ND	2,000	71.00/M	6,000	66.00/M	HI1806N910R-10
	4.50	1.60	1.60	300	150	223	871	240-2418-1-ND	1.53	6.65	12.27	240-2418-2-ND	2,000	72.00/M	6,000	67.00/M	LI1806C151R-10
	4.50	1.60	1.60	500	100	166	966	240-2419-1-ND	1.52	6.60	12.18	240-2419-2-ND	2,000	71.00/M	6,000	67.00/M	LI1806E101R-10
	4.50	1.60	1.60	500	80	117	1,100	240-2420-1-ND	1.54	6.68	12.33	240-2420-2-ND	2,000	72.00/M	6,000	68.00/M	LI1806E800R-10
	4.50	1.60	1.60	6,000	60	92	1,000	240-2421-1-ND	1.66	7.18	13.26	240-2421-2-ND	2,000	77.00/M	6,000	73.00/M	HI1806T600R-10
	4.50	1.60	1.60	1,500	1,000	1,390	135	240-2579-1-ND	4.48	19.42	35.85	240-2579-2-ND	2,000	209.00/M	6,000	197.00/M	HZ1806K102R-10
	4.50	1.60	1.60	1,000	80	119	903	240-2552-1-ND	1.61	6.97	12.87	240-2552-2-ND	2,000	75.00/M	6,000	71.00/M	MI1806J800R-10
1812	4.50	3.20	1.40	400	120	186	738	240-2567-1-ND	2.58	11.18	20.64	240-2567-2-ND	1,000	120.00	5,000	114.00/M	LI1812D121R-10
	4.50	3.20	1.40	1,500	120	170	900	240-2422-1-ND	2.68	11.60	21.42	240-2422-2-ND	2,500	125.00/M	5,000	118.00/M	MI1812K121R-10
	4.50	3.20	1.40	6,000	80	108	1,000	240-2423-1-ND	2.87	12.45	22.98	240-2423-2-ND	2,500	134.00/M	5,000	126.00/M	HI1812T800R-10
	4.50	3.20	2.30	8,000	100	139	800	240-2543-1-ND	2.83	12.27	22.65	240-2543-2-ND	2,500	132.00/M	5,000	125.00/M	HI1812V101R-10
2220	5.59	5.08	1.52	4,000	170	256	500	240-2424-1-ND	4.86	21.08	38.91	240-2424-2-ND	2,000	227.00/M	6,000	214.00/M	HI2220P171R-10
	5.59	5.08	1.80	4,000	250	350	200	240-2425-1-ND	5.69	24.64	45.48	240-2425-2-ND	2,000	265.00/M	6,000	250.00/M	HI2220P251R-10
	5.59	5.08	1.97	4,000	550	851	300	240-2426-1-ND	10.07	43.62	80.52	240-2426-2-ND	2,000	470.00/M	6,000	443.00/M	HI2220P551R-10
	5.59	5.08	3.05	4,000	600	600	100	240-2427-1-ND	7.51	32.53	60.06	240-2427-2-ND	2,000	350.00/M	6,000	330.00/M	HI2220P601R-10
	5.59	5.08	3.05	4,000	700	700	100	240-2428-1-ND	7.43	32.19	59.43	240-2428-2-ND	2,000	347.00/M	6,000	327.00/M	HI2220P701R-10
	5.59	5.08	1.80	5,000	150	226	500	240-2429-1-ND	4.86	21.04	38.85	240-2429-2-ND	2,000	227.00/M	6,000	214.00/M	HI2220R151R-10
	5.59	5.08	3.20	4,000	270	390	300	240-2544-1-ND	6.41	27.76	51.24	240-2544-2-ND	2,000	299.00/M	6,000	282.00/M	HI2220P271R-10
	5.59	5.08	3.20	4,500	400	450	150	240-2545-1-ND	6.54	28.34	52.32	240-2545-2-ND	2,000	305.00/M	6,000	288.00/M	HI2220Q401R-10
	5.59	5.08	1.80	5,000	180	270	400	240-2546-1-ND	5.17	22.41	41.37	240-2546-2-ND	2,000	241.00/M	6,000	228.00/M	HI2220R181R-10
	5.59	5.08	3.20	5,000	300	374	200	240-2430-1-ND	6.90	29.90	55.20	240-2430-2-ND	2,000	322.00/M	6,000	304.00/M	HI2220R301R-10
	5.59	5.08	1.80	6,000	100	158	600	240-2431-1-ND	4.92	21.34	39.39	240-2431-2-ND	2,000	230.00/M	6,000	217.00/M	HI2220T101R-10
	5.59	5.08	3.05	4,000	600	600	104	240-2432-1-ND	9.88	42.82	79.05	240-2432-2-ND	2,000	461.00/M	6,000	435.00/M	HR2220P601R-10
	5.59	5.08	3.61	8,000	800	910	96	240-2433-1-ND	16.45	71.27	131.58	240-2433-2-ND	2,000	768.00/M	6,000	724.00/M	HR2220V801R-10
3312	8.50	3.05	2.28	10,000	100	173	1,059	240-2434-1-ND	10.13	43.88	81.00	240-2434-2-ND	2,500	479.00/M	5,000	452.00/M	DM3312X101R-10
	8.50	3.05	2.28	10,000	100	173	1,000	240-2498-1-ND	5.39	23.34	43.08	240-2498-2-ND	5,000	237.00/M	10,000	230.00/M	HI3312X101R-10

240-2227-ND Surface Mount Ferrite Chip Bead Sample Kit (10 ~ 30 samples of each part listed) **$60.00**

EMI Filters, Chokes, Chips and Power Inductor Chips

Surface Mount Four Line Chip Arrays for Differential Signal Filtering

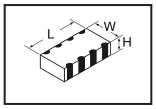

Features: • Small footprint • Rugged construction • Broad range of impedance values • Good high frequency performance (peaks well above 100MHz) • Lower installation cost (one pick and place motion instead of four discrete installations) • Equivalent performance to four 0603 sized chips

Size Code	Dimensions – mm			Typical Impedance (Ω) @ 100MHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Number of Filtered Circuits	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel						Steward Part No.
	L	W	H							10	50	100		Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	
1206	3.20	1.60	0.80	1,000	1,129	175	4	200	240-2483-1-ND	1.21	1.05	.97	240-2483-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B102R-10
	3.20	1.60	0.80	600	761	214	4	200	240-2482-1-ND	1.21	1.05	.97	240-2482-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B601R-10
	3.20	1.60	0.80	120	211	559	4	300	240-2480-1-ND	1.21	1.05	.97	240-2480-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206C121R-10
	3.20	1.60	0.80	300	450	500	4	400	240-2481-1-ND	1.21	1.05	.97	240-2481-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D301R-10
	3.20	1.60	0.80	60	133	1,103	4	400	240-2539-1-ND	1.21	1.05	.97	240-2539-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D600R-10
	3.20	1.60	0.80	30	56	1,161	4	500	240-2479-1-ND	1.21	1.05	.97	240-2479-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206E300R-10

Single Line Surface Mount Differential Mode Bead Assemblies

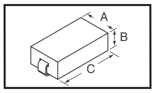

Steward SMT Bead Assemblies provide filtering in circuits carrying up to 10 Amps continuous current. Products are offered for low frequency and high frequency EMI filtering. The robust construction and low DCR are well suited for applications operating in extreme conditions or applications that are sensitive to added circuit DCR.

Features: • 10 Amps Continuous Operating Current Capability • Very Low DCR • Broadband (28F) and Low Frequency (35F) parts available

Size Code	Dimensions – mm			Typical Impedance (Ω)		Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel				Steward Part No.
	A	B	C	@ 100MHz	@ 500MHz					10	50	100		Qty.	Pricing	Qty.	Pricing	
1612	3.05	2.54	4.06	36	34	13	.00075	10,000	240-2520-1-ND	2.53	10.97	20.25	240-2520-2-ND	2,500	118.00/M	5,000	111.00/M	35F0121-0SR-10
	3.05	2.54	4.06	48	53	800	.00075	10,000	240-2435-1-ND	2.76	11.94	22.05	240-2435-2-ND	2,500	129.00/M	5,000	121.00/M	28F0121-0SR-10
3312	3.05	2.54	8.51	75	67	17	.001	10,000	240-2521-1-ND	3.13	13.57	25.05	240-2521-2-ND	2,500	146.00/M	5,000	138.00/M	35F0121-1SR-10
	3.05	2.54	8.51	96	115	833	.001	10,000	240-2436-1-ND	3.45	14.93	27.57	240-2436-2-ND	2,500	161.00/M	5,000	152.00/M	28F0121-1SR-10
3318	4.57	2.54	8.51	115	123	900	.001	10,000	240-2511-1-ND	3.18	13.80	25.47	240-2511-2-ND	2,500	149.00/M	5,000	140.00/M	28F0181-1SR-10

Power Inductor Chip / Monolithic Surface Mount

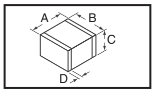

Steward's DI2220V301R-10 is a surface mount, high current power inductor (the industry's smallest package) with exceptional performance under DC Bias

Features: • Very low DCR provides superior thermal performance under DC bias • Compact, monolithic component produces flat inductance over the driven current range (from 3 ~ 8 amps) comparable to a larger, heavier, wire-wound toroidal inductor • EMI resistant, fully shielded internal coil • Tuned to work with high frequency multiphase DC-DC converters • Mounting can be on back side of PC boards • Low profile, small footprint and vibration resistant

Size Code	Dimensions – mm				L @ 2MHz Typical nH (±10%)		DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Steward Part No.
	A	B	C	D	5 Amps	8 Amps				10	50	100		Qty.	Pricing	
2220	5.59	5.08	3.61	0.76	300	270	0.010	8,000	240-2484-1-ND	1.60	1.39	1.28	240-2484-2-ND	2,000	703.00/M	DI2220V301R-10

(Continued)

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Miniature High Current Common Mode Choke Chip Beads

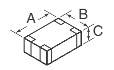

Steward's monolithic surface mount common mode chokes are designed for power and data line EMI filtering where high current, small size or high frequency performance is required.

Features: • Low Normal Mode Impedance and Low DCR to minimize signal distortion • Up to 10 Amps continuous operating current capability in an 1812 size • Vibration resistant • Excellent performance beyond 1GHz • Very stable impedance under load

Size Code	Dimensions – mm A	B	C	Typical Impedance Common Mode (Ω) @ 100MHz	@ 500MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
1812	4.57	3.05	1.60	33	62	2,359	0.003	10,000	240-2455-1-ND	.72	.62	.57	240-2455-2-ND	2,500	332.00/M	5,000	313.00/M	CM1812X330R-10
	4.57	3.05	2.36	60	85	1,519	0.005	5,000	240-2454-1-ND	.75	.65	.60	240-2454-2-ND	2,500	349.00/M	5,000	329.00/M	CM1812R600R-10
3312	8.50	3.05	2.36	110	150	800	0.005	5,000	240-2500-1-ND	.89	.77	.71	240-2500-2-ND	2,500	413.00/M	5,000	389.00/M	CM3312R111R-10

Common Mode Chip Beads for Power and Signal EMI Filtering

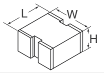

Features:

• Monolithic • Compact size • High current carrying capability • Very low DCR to minimize signal distortion • Smaller, lighter, and less susceptible to vibration than wire-wound chokes • Performance peaks beyond 2GHz • Very stable impedance under load

Size Code	Dimensions – mm L	W	H	Typical Impedance Common Mode (Ω) 100MHz	500MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
Low Profile Surface Mount - Monolithic																				
1922	4.70	5.60	2.84	33	64	1,783	.003	10,000	240-2456-1-ND	.82	.71	.66	240-2456-2-ND	5,000	381.33/M	10,000	359.54/M	25,000	348.64/M	CM1922X330R-10
3322	8.50	5.60	2.10	61	123	1,581	.009	7,000	240-2457-1-ND	.95	.82	.76	240-2457-2-ND	2,500	440.00/M	5,000	415.00/M	10,000	403.00/M	CM3322U610R-10
	8.50	5.60	2.84	63	114	1,459	.008	10,000	240-2458-1-ND	1.07	.93	.86	240-2458-2-ND	2,500	497.00/M	5,000	469.00/M	10,000	454.00/M	CM3322X630R-10
High Frequency - Low Profile Surface Mount - Monolithic																				
3322	8.50	5.60	2.10	40	121	1,931	.030	4,000	240-2459-1-ND	1.00	.86	.80	240-2459-2-ND	2,500	463.00/M	5,000	436.00/M	10,000	423.00/M	CM3322P400R-10

Common Mode Chokes - Series 05

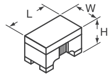

Steward's Series 05 Common Mode Chokes provide excellent filtering capabilities for workload speeds of 25 ~ 480 Mb/s. Series 05 Common Mode Chokes handle filtering for bandwidth-hungry data lines in USB 2.0 designs. By using these parts on data lines (D+ and D-), they will suppress common mode noise without affecting the integrity of the differential signal. Low normal mode impedance allows signals to pass. Available in package size EIA 0805.

Applications:

• USB 2.0 • Broadband • Video applications • Imaging • High density storage devices • Low normal mode impedance

Size Code	Dimensions – mm L	W	H	Typical Impedance Common Mode (Ω) 100MHz	500MHz	1GHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
0805	2.00	1.20	1.20	90	340	435	445	1,405	0.30	400	240-2568-1-ND§	1.97	1.71	1.58	240-2568-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805D900R-10
	2.00	1.20	1.20	160	540	684	684	1,000	0.35	300	240-2569-1-ND§	1.97	1.71	1.58	240-2569-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805C161R-10
	2.00	1.20	1.20	220	570	720	724	1,147	0.40	300	240-2570-1-ND§	1.97	1.71	1.58	240-2570-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805C221R-10
	2.00	1.20	1.20	370	730	878	878	1,000	0.50	100	240-2571-1-ND§	1.97	1.71	1.58	240-2571-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805A371R-10

§ 240-2581-ND Series 05 USB Common Mode Sample Kit (20 each of parts denoted) **$10.00**

Common Mode Chokes - Low Frequency Series LF

Applications: • Medical Equipment • Telecom • Automotive

Features: • Low Frequency Peak Impedance • Up to 13,200Ω of Peak Impedance

Fig. 1

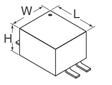

Fig. 2

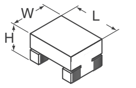

Fig. 3

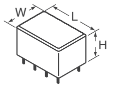

Fig.	Size Code	Dimensions – mm L	W	H	Typical Impedance Common Mode (Ω) 4MHz	100MHz	Peak Impedance Frequency (MHz)	Peak Impedance (Ω)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
1	2824	7.5	5.5	3.8	8,900	400	2	13,200	1.3000	400	240-2572-1-ND§	—	6.54	5.67	5.24	240-2572-2-ND	1,500	3051.00/M	6,000	2877.00/M	CM2824B103R-10
	2824	7.5	5.5	3.8	570	1,800	80	1,920	0.2600	800	240-2573-1-ND§	—	6.54	5.67	5.24	240-2573-2-ND	1,500	3051.00/M	6,000	2877.00/M	CM2824E182R-10
	2824	7.5	5.5	3.8	1,400	3,500	45	3,950	0.3000	800	240-2574-1-ND§	—	3.48	3.02	2.79	240-2574-2-ND	1,500	1622.00/M	6,000	1529.00/M	CM2824E352R-10
	2824	7.5	5.5	3.8	7,000	800	6	7,200	0.2600	700	240-2575-1-ND§	—	7.16	6.20	5.73	240-2575-2-ND	1,500	3337.00/M	6,000	3146.00/M	CM2824E702R-10
2	1812	5.00	3.50	5.55	1,100	2,800	50	3,500	0.5000	200	240-2576-1-ND§	—	4.71	4.08	3.77	240-2576-2-ND	2,000	2194.00/M	6,000	2068.00/M	CM1812C282R-10
3	5740	14.48	10.03	10.54	240	100	3	276	0.0013	20,000	240-2577-ND§†	5.59	4.63	3.99	3.60	—	—	—	—	—	CM5740Z241B-10

† Bulk Packaging

§ 240-2582-ND Low Frequency Common Mode Sample Kit (10 each of parts denoted)................ **$10.00**

SMD Common Mode Arrays for Power and Signal EMI Filtering

An advanced family of ferrite common mode choke arrays provides electromagnetic interference (EMI) filtering for both power and data lines in one part.

Features: • High continuous operating current capability (5 Amps) • Very low normal mode impedance allows desired signals to pass • Parts have no crosstalk • One single part can be used as a multi-line array or installed as a multi-pass choke in series to multiply impedance • Excellent filters for USB, Firewire and RJ11 to RJ45 Modular Data/Power Port applications • DCR Maximum is 0.020Ω • Will easily fit behind connector port jacks

Fig. 1

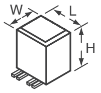

Two Chokes

Fig. 2

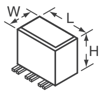

Three Chokes

Fig. 3

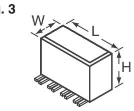

Four Chokes

Fig.	Size Code	Dimensions – mm L	W	H	Typical Impedance (Ω) 100MHz	300MHz	Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
1	2722	6.99	5.72	7.62	150	170	5	240-2470-1-ND	—	1.79	1.55	1.43	240-2470-2-ND	600	499.80	3,000	785.00/M	6,000	762.00/M	CM2722R151R-10
	2722	6.99	5.72	9.53	200	210	5	240-2471-1-ND	—	1.85	1.60	1.48	240-2471-2-ND	500	430.76	2,500	812.30/M	5,000	787.68/M	CM2722R201R-10
	2722	6.99	5.72	4.32	80	95	5	240-2472-1-ND	—	1.74	1.51	1.39	240-2472-2-ND	1,000	809.00	5,000	762.00/M	10,000	739.00/M	CM2722R800R-10
2	3822	9.78	5.72	7.62	150	170	5	240-2473-1-ND	—	2.05	1.78	1.64	240-2473-2-ND	600	573.60	3,000	901.00/M	6,000	874.00/M	CM3822R151R-10
	3822	9.78	5.72	4.32	80	95	5	240-2475-1-ND	—	2.00	1.73	1.60	240-2475-2-ND	1,000	931.00	5,000	878.00/M	10,000	851.00/M	CM3822R800R-10
	3822	9.78	5.72	9.53	200	210	5	240-2474-1-ND	—	2.10	1.82	1.68	240-2474-2-ND	500	490.00	2,500	924.00/M	5,000	896.00/M	CM3822R201R-10
3	5022	12.57	5.72	7.62	150	170	5	240-2476-1-ND	—	2.69	2.33	2.16	240-2476-2-ND	600	753.00	3,000	1183.00/M	6,000	1147.00/M	CM5022R151R-10
	5022	12.57	5.72	9.53	200	210	5	240-2477-1-ND	2.97	2.79	2.42	2.23	240-2477-2-ND	375	486.81	1,875	1223.97/M	3,750	1186.88/M	CM5022R201R-10
	5022	12.57	5.72	4.32	80	95	5	240-2478-1-ND	—	2.63	2.28	2.10	240-2478-2-ND	1,000	1225.00	5,000	1155.00/M	10,000	1120.00/M	CM5022R800R-10

(Continued)

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 ~ 75 Amps Continuous Operation)

Fig. 1 – Two Chokes

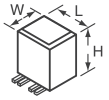

Fig. 2 – Three Chokes

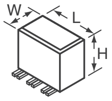

Fig. 3 – Four Chokes

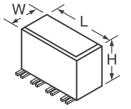

Features: • Surface mount design • Filters groups of signals • Multi pass board layout application can effectively install 2, 3 or 4 chokes in series to multiply impedance up to 1000Ω at 100MHz • High continuous operating current capability (8 Amps) • Will fit behind RJ45 Jack • Eliminates the need for an expensive filtered connector • Surface mount • Very low DCR

Fig. 4 – One Choke

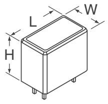

Features: • High continuous operating current capability (10 ~ 20 Amps) • Compact size • Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 5

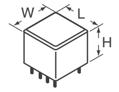

Features: • Can be used as multi-pass device to multiply impedance • Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 6 – One Choke

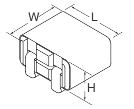

Features: • Surface mount design • High continuous operating current (15 Amps) • Low profile • Low DCR • Resistant to board flex stress

Fig. 7 – One Choke

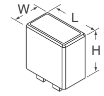

Features: • High continuous operating current capability up to 75A • Small footprint • Smaller and lighter than older style wire wound high current chokes • Very low DCR • Stable under load

Fig.	Size Code	Dimensions – mm L	W	H	Common Mode Impedance (Ω) 100MHz	300MHz	Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
									High Current Surface Mount											
1	3032	7.62	8.13	9.45	200	205	8	240-2461-1-ND§	2.28	2.14	1.85	1.71	240-2461-2-ND	400	398.00	2,000	939.00/M	4,000	910.00/M	CM3032V201R-10
	3032	7.62	8.13	14.48	300	295	8	240-2462-1-ND§	3.50	3.28	2.85	—	240-2462-2-ND	100	153.00	500	721.00	1,000	1398.00	CM3032V301R-10
	3032	7.62	8.13	5.72	120	128	8	240-2538-1-ND	2.11	1.99	1.72	1.59	240-2538-2-ND	400	370.00	2,000	872.00/M	4,000	846.00/M	CM3032V121R-10
2	4732	11.94	8.13	9.45	200	220	8	240-2465-1-ND	2.49	2.34	2.03	1.87	240-2465-2-ND	400	435.60	2,000	1026.00/M	4,000	995.00/M	CM4732V201R-10
	4732	11.94	8.13	14.48	300	305	8	240-2466-1-ND	3.81	3.57	3.10	—	240-2466-2-ND	150	249.90	750	1178.25	1,500	1523.00/M	CM4732V301R-10
3	6032	15.24	8.13	9.45	200	210	8	240-2468-1-ND§	3.10	2.91	2.52	2.33	240-2468-2-ND	500	677.51	2,500	1277.60/M	5,000	1238.88/M	CM6032V201R-10
	6032	15.24	8.13	14.48	300	300	8	240-2469-1-ND§	4.57	4.28	3.71	—	240-2469-2-ND	100	199.70	500	941.50	1,000	1826.00	CM6032V301R-10
4	2545	11.38	6.30	9.32	170	180	10	240-2460-1-ND	1.56	1.47	1.27	1.18	240-2460-2-ND	400	273.20	2,000	644.00/M	4,000	624.00/M	CM2545X171R-10
	3440	10.03	8.51	9.32	170	170	20	240-2463-1-ND§	1.96	1.84	1.60	1.47	240-2463-2-ND	375	321.38	1,875	808.00/M	3,750	783.00/M	CM3440Z171R-10
5	4545	11.38	11.38	9.32	130	145	10	240-2464-1-ND	1.76	1.65	1.43	1.32	240-2464-2-ND	400	307.60	2,000	725.00/M	4,000	703.00/M	CM4545Z131R-10
	5740	14.48	10.03	9.32	170	190	20	240-2467-1-ND§	2.48	2.33	2.02	1.86	240-2467-2-ND	375	406.88	1,875	1023.01/M	3,750	992.00/M	CM5740Z171R-10
6	2021	5.60	5.00	2.85	33	35	15	240-2502-1-ND	.36	.34	.30	.27	240-2502-2-ND	2,000	157.00/M	4,000	148.00/M	10,000	143.00/M	CM2021Y330R-10
	3421	8.68	5.60	2.85	60	65	15	240-2501-1-ND	.36	.34	.30	.27	240-2501-2-ND	2,000	157.00/M	6,000	148.00/M	10,000	143.00/M	CM3421Y600R-10
									High Current Thru Hole											
4	2545	11.38	6.30	9.32	170	175	10	240-2485-ND†	1.22	1.02	.88	.79	—	—	—	—	—	—	—	CM2545X171B-10
5	4545	11.38	11.38	9.32	130	145	10	240-2486-ND†	1.70	1.41	1.22	1.10	—	—	—	—	—	—	—	CM4545Z131B-10
									Ultra High Current Thru Hole											
4	3440	10.03	8.51	9.32	170	175	20	240-2487-ND§†	1.57	1.31	1.13	1.01	—	—	—	—	—	—	—	CM3440Z171B-10
5	5740	14.48	10.03	9.32	170	175	20	240-2490-ND§†	2.06	1.71	1.47	1.33	—	—	—	—	—	—	—	CM5740Z171B-10
7	5441	13.72	10.41	15.24	160	150	75	240-2488-ND§†	2.16	1.80	1.55	1.40	—	—	—	—	—	—	—	CM5441Z161B-10
	5441	13.72	10.41	10.52	100	112	75	240-2489-ND§†	1.81	1.50	1.29	1.17	—	—	—	—	—	—	—	CM5441Z101B-10

† Bulk Packaging

§ 240-2228-ND High Current (200mA ~ 75A) Common Mode Choke Sample Kit (4 each of parts denoted)........ **$45.00**

Common Mode Chokes for Data/Signal Lines and CAN-Bus Applications

Automotive, Medical, Industrial, Consumer Electronics, etc.
Strong low and high frequency impedance!

Surface mount chokes for Controller Area Networks (CAN-Bus) and other common mode EMI filtering applications. Current compensated surface mount chokes, filter common mode noise currents and minimize emissions from high speed data lines. Also suppresses interference with on-board electronics. Available in 1812 and 2824 sizes. Four chokes offer peak impedance below 10MHz. Over 12,000Ω at 2MHz. Operating Temp. Range: -40°C to +125°C for ≥ 1,000µH.

Fig. 1

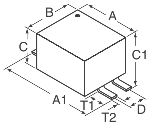

Fig. 2

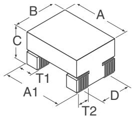

Fig.	A	A1 Max.	B	C	C1 Max.	D	T1	T2	Steward Part No. Family
1	7.50	9.00	5.50	3.80	4.90	2.54	1.75	0.50	CC2824xxxxR-x0
2	5.00	5.20	3.50	3.55	—	1.70	1.00	1.00	CC1812xxxxR-x0

Fig.	Lp Inductance – µH Test Conditions	Min.	Nom.	Max.	Typical Peak Impedance Ω @ MHz	TRP 100kHz/ 50mV	Hi-Pot (VAC) 0.5 mA, 2 sec.	DCR Typical (Ω)	Idc (mA)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Steward Part No.
1	100kHz / 50mV	3.5	5.0	6.5	388 @ 500	1 : 1 ±5%	250	0.10	1,200	240-2445-1-ND‡	6.54	5.67	5.24	240-2445-2-ND	1,500	3051.00/M	CC2824J502R-10
	100kHz / 50mV	7.7	11.0	14.3	780 @ 200	1 : 1 ±5%	250	0.12	800	240-2446-1-ND‡	5.32	4.61	4.26	240-2446-2-ND	1,500	2480.00/M	CC2824E113R-10
	100kHz / 50mV	17.5	25.0	32.5	1,971 @ 100	1 : 1 ±5%	250	0.13	800	240-2447-1-ND‡	6.54	5.67	5.24	240-2447-2-ND	1,500	3051.00/M	CC2824E253R-10
	100kHz / 50mV	35.0	51.0	66.3	3,805 @ 50	1 : 1 ±5%	250	0.16	800	240-2448-1-ND‡	3.48	3.02	2.79	240-2448-2-ND	1,500	1622.00/M	CC2824E513R-10
	100kHz / 50mV	329.0	470.0	611.0	8,580 @ 5	1 : 1 ±5%	750	0.20	700	240-2449-1-ND‡	7.16	6.20	5.73	240-2449-2-ND	1,500	3337.00/M	CC2824E474R-10
	100kHz / 50mV	700.0	1,000.0	1,500.0	4,250 @ 7	1 : 1 ±5%	750	0.20	700	240-2450-1-ND‡	7.00	6.07	5.60	240-2450-2-ND	1,500	3266.00/M	CC2824E105R-10
	10kHz / 50mV	1,540.0	2,200.0	3,300.0	5,278 @ 5	1 : 1 ±5%	750	0.40	500	240-2451-1-ND‡	7.00	6.07	5.60	240-2451-2-ND	1,500	3266.00/M	CC2824D225R-10
	10kHz / 50mV	3,290.0	4,700.0	7,050.0	12,300 @ 2	1 : 1 ±5%	750	0.55	400	240-2452-1-ND‡	6.54	5.67	5.24	240-2452-2-ND	1,500	3051.00/M	CC2824B475R-10
2	100kHz / 50mV	35.7	51.0	66.3	3,530 @ 40	1 : 1 ±5%	250	0.50	200	240-2453-1-ND‡	4.71	4.08	3.77	240-2453-2-ND	2,000	2194.00/M	CC1812C513R-10

‡ 240-2583-ND CAN-Bus Common Mode Sample Kit (5 each of parts denoted)........ **$10.00**

Differential Mode Surface Mount and Through Hole Ferrite EMI Filters

RoHS COMPLIANT

Digi-Reel®

Differential Mode Multi-Line Arrays for Power EMI Filtering

3, 4, 5, and 8 Line Filters Rated up to 10 Amps Continuous Operation

Fig. 1 – Surface Mount (R)

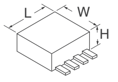

Fig. 2 – Through Hole (T)

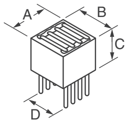

These multi-line ferrite products provide economical EMI filtering of differential mode noise in surface mount and through hole PCB applications. They are designed to provide high frequency suppression of both common and differential mode EMI noise on groups of data/power lines. The surface mount differential mode EMI filters are rated for up to 9 Amps continuous operation per filtered line (channel) and the through hole filters are rated up to 10 Amps continuous operation per line. Rugged construction provides protection against transient events as well as much higher peak current handling capability than most other EMI suppression devices. Low DCR.

Surface Mount

Fig.	Dimensions – mm L	W	H	Typical Impedance (Ω) 100MHz	300MHz	Current Rating I Max. (A) Continuous	No. of Lines	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
1	8.33	10.87	6.35	200	210	9	3	240-2441-1-ND	16.11	69.83	128.91	240-2441-2-ND	450	338.40	2,250	709.00/M	4,500	688.00/M	29F0330-2SR-10
	10.87	10.87	6.35	200	210	8	4	240-2443-1-ND	17.27	74.82	138.12	240-2443-2-ND	900	725.40	4,500	760.00/M	9,000	737.00/M	29F0430-2SR-10
	11.43	4.50	4.19	119	120	6	8	240-2444-1-ND	25.80	111.78	206.37	240-2444-2-ND	900	1083.60	4,500	1135.00/M	9,000	1101.00/M	29F0818-1SR-10
	4.83	4.50	4.19	119	128	6	3	240-2515-1-ND	15.83	68.58	126.60	240-2515-2-ND	900	665.10	4,500	696.00/M	9,000	675.00/M	29F0318-1SR-10
	6.10	4.50	2.92	83	83	6	4	240-2517-1-ND	14.73	63.85	117.87	240-2517-2-ND	900	619.20	4,500	648.00/M	9,000	629.00/M	29F0418-0SR-10
	6.10	4.50	4.19	119	118	6	4	240-2442-1-ND	15.08	65.33	120.60	240-2442-2-ND	900	633.15	4,500	663.30/M	9,000	643.20/M	29F0418-1SR-10
	10.87	10.87	8.89	290	299	9	4	240-2518-1-ND	20.86	90.38	166.86	240-2518-2-ND	400	389.20	2,000	918.00/M	4,000	890.00/M	29F0430-4SR-10
	11.43	4.50	2.92	75	81	6	8	240-2519-1-ND	25.02	108.42	200.16	240-2519-2-ND	900	1051.20	4,500	1101.00/M	9,000	1068.00/M	29F0818-0SR-10

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Differential Mode Surface Mount and Through Hole Ferrite EMI Filters *(Cont.)*

Through Hole

Fig.	No. of Lines	Dimensions – mm A	B	C	D	Current Rating I Max. (A) Continuous	Typical Impedance (Ω) @ 100MHz	@ 300MHz	Digi-Key Part No.	Price Each 1	10	50	100	Steward Part No.
2	3	7.62	5.08	10.44	2.54	8	266	288	240-2514-ND	.85	.71	.61	.55	29F0303-0T0-10
	3	8.34	10.88	10.57	7.62	10	342	400	240-2516-ND	1.13	.94	.81	.73	29F0328-0T0-10
	4	10.87	10.87	10.57	7.62	10	342	400	240-2494-ND	1.31	1.09	.94	.85	29F0428-0T0-10
	4	10.87	5.49	10.44	2.54	8	245	290	240-2495-ND	1.00	.83	.72	.65	29F0429-0T0-10
	5	13.41	10.87	10.57	7.62	10	342	400	240-2496-ND	1.97	1.64	1.41	1.27	29F0528-0T0-10

Axial Lead Ferrite Beads for Broad Band EMI Filtering

Through Hole Applications

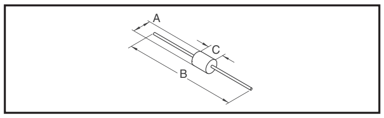

Steward's two-terminal axial lead ferrite beads provide economical filtering for differential mode EMI suppression applications. Constructed using a continuous 22 gauge conductor, these devices are able to withstand high peak currents that can destroy other surface mount devices. Through hole installation. Low DCR.

Dimensions – mm A	B	C	Typical Impedance (Ω) @ 100MHz	@ 300MHz	Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
3.51	59.00	4.45	75	80	5	240-2438-1-ND	.45	1.93	3.57	240-2438-2-ND	4,500	21.00/M	9,000	20.00/M	28L0138-10R-10
3.51	59.00	8.89	135	138	5	240-2439-1-ND	.91	3.93	7.26	240-2439-2-ND	4,500	19.00/M	9,000	18.00/M	28L0138-40R-10
3.51	59.00	13.97	220	210	5	240-2440-1-ND	.83	3.58	6.60	240-2440-2-ND	4,500	39.00/M	9,000	36.00/M	28L0138-70R-10
3.51	59.00	5.23	86	78	5	240-2513-1-ND	.44	1.92	3.54	240-2513-2-ND	4,500	21.00/M	9,000	19.00/M	28L0138-80R-10

Wound Bead Chokes for Differential Mode EMI Filtering

Broad Band EMI Filtering - Through Hole

Fig. 1

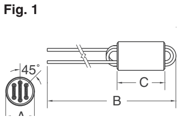

Fig. 2

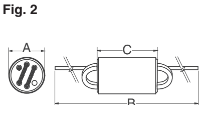

Fig. 3

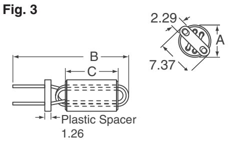

Fig. 4

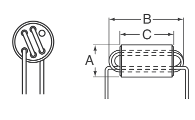

Fig. 5

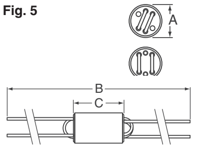

Multi-aperture, multiple turn ferrite chokes. Three turn configurations provide lossy impedance over 1,000Ω. These parts offer excellent broadband frequency performance. Current rating is up to 5 Amps continuous operation.

Fig.	Dimensions – mm A	B	C	Typical Impedance (Ω) @ 50MHz	@ 100MHz	Digi-Key Part No.	Pricing 1	10	50	100	Steward Part No.
1	6.00	50.53	10.00	845	1,000	240-2492-ND	.39	3.27	14.09	25.36	28C0236-0EW-10
2	6.00	86.46	10.00	700	835	240-2491-ND	.39	3.27	14.09	25.36	28C0236-0BW-10
3	6.00	20.96	10.00	845	1,000	240-2493-ND	.51	4.26	18.38	33.08	28C0236-0JW-10
4	5.99	14.99	10.00	680	835	240-2509-ND	.51	4.19	18.08	32.54	28C0236-0BS-10
5	5.99	86.46	10.00	360	460	240-2510-ND	.58	4.83	20.83	37.49	28C0236-0DW-10

Ferrite EMI Disks and Plates with Adhesive

RoHS COMPLIANT

Steward's Ferrite Disks and Plates provide a simple, cost-effective solution for radiated and inductively coupled electromagnetic interference. After the PC board soldering process, a ferrite disk or plate can be installed directly on the source of EMI (such as active devices or unwanted antennas). Can also be utilized either as inductively-coupled components or EMI shields on PC board components and traces.

Inductive coupling occurs when the ferrite affects the conducted wave form leading the active component. The rise time of the wave form is effectively slowed by the ferrite, and the overshoot and associated ringing are attenuated. EMI shielding occurs when the ferrite absorbs the radiated EMI emissions from active components, effectively protecting other boards or components in the vicinity from radiated contamination. Performance varies with each application.

Features: • Parts have 3M VHB double-sided permanent adhesive • Can be used to locate unwanted EMI antennas • Flat Flex and Ribbon Cable Shields • Provides retrofit auxiliary EMI attenuation

Fig. 1 – Disks

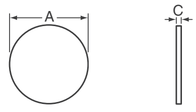

Fig. 2 – Plates

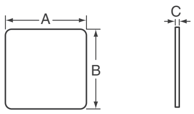

§ 240-2247-ND Ferrite EMI Disk and Plate Kit (5 each of parts denoted)
"Sample kit contains parts with temporary adhesives so they can be repositioned" **$30.00**

Fig.	Dimensions – mm A	B	C	Digi-Key Part No.	Pricing 1	10	50	Steward Part No.
				Disks				
1	20.00	—	1.27	240-2248-ND§†	.14	1.20	5.16	HM0787-100
	20.00	—	1.91	240-2249-ND§†	.17	1.42	6.11	HM0787-200
	35.56	—	1.91	240-2250-ND§†	.35	2.87	12.36	HM1400-200
	16.51	—	1.27	240-2252-ND§	.13	1.06	4.55	MM0650-100
	20.00	—	1.91	240-2254-ND§	.17	1.42	6.11	MM0787-200
				Plates				
2	26.42	26.42	1.27	240-2257-ND§†	.21	1.74	7.49	HP1040-100
	26.42	26.42	1.91	240-2258-ND§†	.27	2.23	9.61	HP1040-200
	8.00	8.00	2.00	240-2259-ND	.11	.89	3.85	MP0315-200
	26.42	8.89	1.27	240-2260-ND	.13	1.08	4.65	MP0350-000
	11.00	11.00	1.96	240-2261-ND	.12	1.02	4.38	MP0433-000
	13.00	13.00	2.00	240-2262-ND	.14	1.13	4.86	MP0512-200
	15.00	15.00	2.00	240-2264-ND	.15	1.26	5.41	MP0591-200
	19.30	19.30	1.27	240-2265-ND§	.15	1.28	5.50	MP0760-100
	26.42	26.42	1.27	240-2266-ND§	.21	1.74	7.49	MP1040-100
	26.42	26.42	1.91	240-2267-ND§	.27	2.23	9.61	MP1040-200
	38.00	38.00	2.00	240-2268-ND	.48	3.97	17.11	MP1496-000

† For Higher EMI Frequencies

Ferrite Toroid Cores for Transformers and Chokes

RoHS COMPLIANT

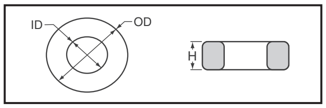

Features: Steward 35 and 40 material ferrite toroids provide low losses and high performance in transformers at kHz to low MHz frequencies. They provide high impedance below 10MHz for suppression for undesired signals. The H coating is an epoxy with typical thickness of 0.003 inches. The Hipot rating is 1000 VAC minimum of coating. **Application:** • Switched mode power supplies • Current sensing transformers • DC to DC converters • Telecommunications transformers and chokes • Lighting Ballast • Ground Fault Interrupter Application • EMI filters

Dimensions – Inches (mm) OD	ID	H	Initial Permeability	AL @ 100kHz (nH per turn squared)	Digi-Key Part No.	Pricing 1	10	50	Steward Part No.
.230 (5.84)	.120 (3.05)	.060 (1.52)	5,000	991	240-2584-ND	.06	.53	2.30	35T0231-00P
.230 (5.84)	.120 (3.05)	.125 (3.18)	5,000	2,066	240-2585-ND	.09	.78	3.38	35T0231-20P
.230 (5.84)	.120 (3.05)	.100 (2.54)	5,000	1,652	240-2586-ND	.09	.72	3.09	35T0231-30P
.375 (9.53)	.187 (4.75)	.125 (3.18)	5,000	2,214	240-2522-ND	.14	1.20	5.18	35T0375-10H
.500 (12.70)	.281 (7.14)	.250 (6.35)	5,000	3,659	240-2524-ND	.23	1.94	8.35	35T0501-10H
1.000 (25.40)	.610 (15.50)	.394 (10.00)	5,000	4,830	240-2526-ND	1.19	9.86	42.49	35T1000-00H
1.417 (36.00)	.906 (23.00)	.394 (10.00)	5,000	4,543	240-2528-ND	2.51	20.83	89.77	35T1417-00H
.500 (12.70)	.281 (7.14)	.250 (6.35)	10,000	7,318	240-2532-ND	.27	2.20	9.50	40T0501-10H
1.000 (25.40)	.610 (15.50)	.394 (10.00)	10,000	9,660	240-2534-ND	1.37	11.36	48.97	40T1000-00H
1.417 (36.00)	.906 (23.00)	.591 (15.00)	10,000	13,440	240-2537-ND	3.46	28.71	123.75	40T1417-10H

Steward a unit of Laird TECHNOLOGIES

Broad Band (30 MHz ~ 900 MHz Optimized) Ribbon and Flex Cable Ferrite Cores for EMI

One Piece Ferrite EMI Cores for Flat Cables: Cable must be inserted into the ferrite cores before cable ends are connected for figures 1 and 2. Parts made from high performance material.

Split Ribbon Cable Core Assemblies with Hinged Plastic Cases: Conveniently contain both ferrite core halves within the same fully assembled, hinged black plastic case. Order one part for each assembly

Split Ribbon Cable Cores with Plastic End Clips: Easy to use where assembled cable connectors prevent the use of one piece ferrite cores. White end clips provide secure closure of ferrite parts onto the flat cable. Tabs with screw holes for mounting the assembly included. Order two parts for each assembly.

Split Ribbon Cable Cores with Metal Clips: Split ferrite cores for flat ribbon cables clamp together with small metal clips that provide secure closure. Order two parts for each assembly.

Fig. 1 – One Piece Ferrite

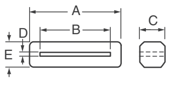

Fig. 2 – One Piece Ferrite

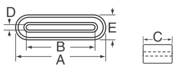

Fig. 3 – Assembly with hinged plastic case

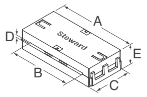

Fig. 4 – Split Ferrite

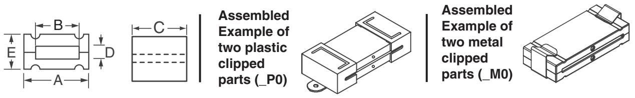

Assembled Example of two plastic clipped parts (_P0)

Assembled Example of two metal clipped parts (_M0)

Fig.	Dimensions - mm					Typical Impedance (Ω)		Digi-Key Part No.	Pricing					Steward Part No.
	A	B	C	D	E	@ 100 MHz	@ 300 MHz		1	2	10	50	100	
Rectangular Shaped One Piece Ferrite EMI Cores for Flat Cables														
1	8.00	6.00	12.00	0.70	2.70	102	250	240-2320-ND	.12	—	1.04	4.46	8.03	28R0315-200
	11.50	8.00	12.00	0.70	3.00	104	335	240-2155-ND	.14	—	1.20	5.16	9.29	28R0453-200
	12.20	8.00	18.00	1.00	5.50	190	320	240-2156-ND	.25	—	2.04	8.80	15.84	28R0480-000
	15.01	10.00	22.86	1.50	7.49	227	370	240-2229-ND	.41	—	3.36	14.48	26.06	28R0592-010
	17.00	13.00	12.00	0.75	3.50	110	270	240-2157-ND	.18	—	1.48	6.40	11.52	28R0669-000
	22.35	14.00	19.05	1.50	7.75	187	356	240-2082-ND	.51	—	4.22	18.20	32.76	28R0880-000
	22.80	18.70	16.00	0.70	2.80	127	280	240-2161-ND	.21	—	1.75	7.53	13.55	28R0898-200
	28.00	23.00	20.00	0.80	5.80	192	380	240-2162-ND	.50	—	4.16	17.91	32.24	28R1102-100
	28.00	23.00	27.00	1.10	6.10	230	480	240-2325-ND	.65	—	5.39	23.24	41.83	28R1103-000
	31.12	24.77	13.30	1.91	8.26	128	300	240-2327-ND	.49	—	4.07	17.53	31.55	28R1227-100
	31.40	23.00	19.00	1.50	7.75	162	370	240-2328-ND	.66	—	5.45	23.51	42.32	28R1236-000
	38.10	26.67	25.40	1.91	12.07	230	520	240-2084-ND	1.58	—	13.10	56.45	101.61	28R1517-000
	45.08	34.42	28.58	1.52	12.45	260	530	240-2086-ND	2.17	—	17.99	77.53	139.55	28R1775-000
	63.50	52.07	28.58	1.68	12.70	298	588	240-2088-ND	3.03	—	25.11	108.25	194.85	28R1779-000
	63.50	52.07	12.98	1.68	12.70	170	375	240-2335-ND	1.42	—	11.78	50.79	91.42	28R1779-100
	55.12	43.69	25.40	1.27	12.70	280	550	240-2090-ND	2.42	—	20.09	86.59	155.86	28R2170-000
	55.12	43.69	12.70	1.27	12.70	170	370	240-2092-ND	1.25	—	10.38	44.73	80.51	28R2170-100
	79.98	68.58	12.70	1.91	11.99	135	318	240-2094-ND	1.59	—	13.21	56.95	102.51	28R3149-000
Oval Shaped One Piece Ferrite EMI Cores for Flat Cables														
2	15.50	13.50	10.00	1.40	3.40	80	216	240-2322-ND	.14	—	1.17	5.03	9.05	28R0610-000
	19.20	15.00	10.00	1.15	5.35	107	258	240-2323-ND	.21	—	1.73	7.48	13.46	28R0756-000
	19.20	15.00	16.00	1.15	5.35	140	308	240-2159-ND	.28	—	2.30	9.93	17.87	28R0756-200
	25.00	18.00	24.00	0.90	7.70	220	430	240-2160-ND	.66	—	5.46	23.54	42.37	28R0984-000
	25.00	18.00	16.00	0.90	7.70	170	370	240-2324-ND	.47	—	3.90	16.83	30.29	28R0984-200
	28.58	23.50	31.00	1.70	7.70	220	430	240-2230-ND	.86	—	7.13	30.73	55.31	28R1127-000
	28.58	23.50	17.00	1.70	7.70	150	330	240-2231-ND	.51	—	4.26	18.36	33.05	28R1127-400
	28.58	23.50	9.70	1.70	7.70	110	265	240-2326-ND	.33	—	2.70	11.64	20.95	28R1127-500
	37.00	27.00	18.25	1.50	8.00	168	380	240-2163-ND	.72	—	6.00	25.85	46.53	28R1141-010
	32.00	25.10	35.00	0.90	7.75	350	700	240-2330-ND	1.16	—	9.61	41.44	74.59	28R1261-100
	32.00	25.10	9.70	0.90	7.75	135	310	240-2331-ND	.39	—	3.21	13.85	24.93	28R1261-200
	34.00	28.00	25.00	1.00	7.00	220	449	240-2332-ND	.82	—	6.81	29.36	52.85	28R1340-200
	36.83	29.58	10.00	0.75	7.75	130	290	240-2164-ND	.45	—	3.71	16.01	28.82	28R1450-100
	37.01	33.00	13.46	0.51	4.50	140	310	240-2333-ND	.39	—	3.19	13.75	24.75	28R1457-400
	42.00	37.50	5.00	0.70	5.00	84	200	240-2334-ND	.22	—	1.81	7.79	14.02	28R1654-010
	49.61	44.00	12.00	1.45	7.62	127	300	240-2165-ND	.60	—	5.01	21.59	38.86	28R1953-000
Split Ribbon Cable Core Assemblies with Hinged Plastic Cases														
3	67.08	53.75	27.53	1.91	16.66	230	480	240-2341-ND	2.75	—	22.79	98.25	176.85	28S2001-2A2
Split Ribbon Cable Cores with Plastic End Clips†														
4	63.50	52.07	28.58	.84	6.35	280	590	240-2097-ND	—	3.26	13.49	58.13	104.63	28S2001-0P0
	76.20	65.28	28.58	.84	6.35	280	600	240-2099-ND	—	3.38	14.00	60.34	108.61	28S2011-0P0
	45.09	34.42	28.58	.84	6.35	250	550	240-2103-ND	—	2.39	9.90	42.66	76.79	28S2022-0P0
Split Ribbon Cable Cores with Metal End Clips (1 Set = 2 Filters and 2 Clips)†														
4	63.50	52.07	28.58	.84	6.35	280	590	240-2096-ND	—	3.26	13.49	58.13	104.63	28S2001-0M0
	76.20	65.28	28.58	.84	6.35	280	600	240-2098-ND	—	3.38	14.00	60.34	108.61	28S2011-0M0
	88.90	78.23	28.58	.84	6.35	240	630	240-2100-ND	—	4.52	18.74	80.79	145.42	28S2012-0M0
	45.09	34.42	28.58	.84	6.35	250	550	240-2102-ND	—	2.39	9.90	42.66	76.79	28S2022-0M0
	38.10	26.67	25.40	.84	6.35	250	520	240-2104-ND	—	2.06	8.55	36.84	66.31	28S2023-0M0
Extra Accessories														
—	Extra Plastic End Clip with Mounting Hole for a Split Ribbon Cable Core							240-2345-ND	.13	—	1.04	4.49	8.08	ASSE001-2
	Extra Metal End Clip for Split Ribbon Cable Core							240-2346-ND	.14	—	1.17	5.06	9.11	ASSE017-2

† ***Note:*** Split ribbon cable cores require two ferrite pieces per one complete assembly (except split cores in fully assembled hinged plastic cases).

240-2507-ND Ferrite EMI Cores for Flat Ribbon and Flex Cables (3-11 each of 36 different sizes)........ **$60.00**

Ferrite EMI Cores for Cables and Wiring Harnesses

Low Frequency (300kHz ~ 30MHz)

Cores for Round Cables

Steward LFB ferrite material provides excellent impedance at lower frequencies.

Optimum EMI attenuation is between 300kHz and 30MHz, however, with additional wire turns, much broader EMI frequencies can be effectively attenuated.

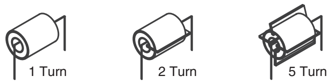

Additional wire turns will multiply impedance.

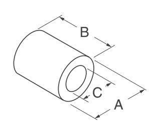

Dimensions - mm			Net Impedance (Ω)						Digi-Key Part No.	Pricing					Steward Part No.
A	B	C	@ 1MHz (1 Turn)	@ 1MHz (2 Turn)	@ 1MHz (5 Turn)	@ 5MHz (1 Turn)	@ 5MHz (2 Turn)	@ 5MHz (5 Turn)		1	10	50	100	500	
9.00	7.00	5.00	21	90	558	36	140	867	240-2135-ND§	.15	1.26	5.44	9.79	39.15	LFB090050-000
9.50	19.05	5.10	63	240	1464	86	332	2514	240-2277-ND§	.45	3.71	15.99	28.78	115.11	LFB095051-000
12.70	7.00	7.92	16	70	436	25	102	593	240-2278-ND§	.19	1.55	6.66	11.99	47.97	LFB127079-000
14.27	28.58	6.35	122	490	2842	120	480	2646	240-2279-ND§	1.71	14.14	60.94	109.69	438.75	LFB143064-000
14.27	13.46	6.35	57	220	1169	53	215	1552	240-2136-ND§	.79	6.57	28.30	50.94	203.76	LFB143064-100
15.88	28.58	7.87	105	410	2615	100	390	2305	240-2281-ND§	1.09	9.05	39.00	70.20	280.80	LFB159079-000
17.40	28.58	9.50	91	350	2184	85	340	2044	240-2282-ND§	2.16	17.92	77.25	139.05	556.20	LFB174095-000
18.10	10.00	10.00	31	138	809	29	115	722	240-2283-ND§	.51	4.23	18.25	32.85	131.40	LFB180100-000
18.70	28.58	10.16	91	350	1969	84	330	1863	240-2284-ND§	2.34	19.36	83.44	150.19	600.75	LFB187102-000
22.10	12.70	14.00	30	30	818	28	110	699	240-2137-ND§	.65	5.41	23.30	41.94	167.76	LFB220140-000
25.00	13.00	15.00	34	136	850	26	80	624	240-2285-ND§	.92	7.66	33.00	59.40	237.60	LFB250150-000
25.91	28.58	12.83	106	420	2647	62	240	1487	240-2138-ND§	3.30	27.37	117.96	212.33	849.33	LFB259128-000
28.98	15.21	19.05	34	155	963	22	70	573	240-2286-ND§	1.47	12.16	52.41	94.34	377.37	LFB290190-000
31.00	13.00	19.00	33	143	845	22	88	554	240-2139-ND§	1.45	11.98	51.63	92.93	371.70	LFB310190-000
36.00	15.00	23.00	27	110	653	19	75	438	240-2287-ND	2.80	23.18	99.90	179.82	719.28	LFB360230-300

§ 240-2508-ND Ferrite Low Frequency EMI Cores for Round Cables and Wire Bundles Sample Kit (4-16 each of parts denoted)........ **$60.00**

Steward | a unit of Laird Technologies

Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI)

Broad Band (optimized 30MHz ~ 800MHz +) Bead Cores for Round Cables and Wire Bundles

Fig. 1

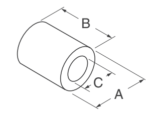

Fig. 2

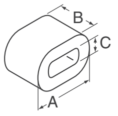

One-piece ferrite tubular bead cores for effectively attenuating a broad range of conducted and radiated electromagnetic interference (EMI). Install over round cables or wire bundles. Ferrite beads can be over molded or covered with heat shrink coating if desired. Additional wire turns will multiply impedance. Steward's cylindrical beads for round cables in Broad Band 28 material provide the smallest and most cost effective EMI solution when filtering both common mode and differential mode EMI on internal and external cable assemblies. By using Steward's high performance material, one is able to use the smallest and lowest weight core size possible with the highest EMI attenuation performance available.

Fig.	Dimensions (mm)			Typical Impedance (Ω)			Digi-Key Part No.	Pricing					Steward Part No.
	A	B	C	@ 50MHz	@ 100MHz	@ 300MHz		1	10	50	100	500	
1	6.35	15.88	3.18	131	182	300	240-2289-ND	.14	1.17	5.04	9.07	36.27	28B0250-100
	6.78	14.22	3.99	100	138	260	240-2112-ND	.14	1.12	4.83	8.69	34.74	28B0268-000
	7.00	13.50	3.80	84	146	268	240-2290-ND	.14	1.16	4.99	8.98	35.91	28B0275-000
	8.00	4.78	3.17	69	100	220	240-2291-ND	.12	.97	4.19	7.54	30.15	28B0315-000
	8.00	10.06	3.17	112	158	281	240-2292-ND	.15	1.22	5.26	9.47	37.89	28B0315-100
	8.60	10.00	3.80	85	143	264	240-2293-ND	.15	1.27	5.46	9.83	39.33	28B0339-000
	9.00	20.00	4.75	148	205	360	240-2295-ND	.21	1.76	7.58	13.64	54.54	28B0355-000
	9.53	14.48	5.08	114	154	282	240-2067-ND	.19	1.55	6.69	12.04	48.15	28B0375-100
	9.53	19.05	5.08	146	194	310	240-2113-ND	.22	1.82	7.86	14.15	56.61	28B0375-300
	9.53	4.83	5.08	52	81	200	240-2296-ND	.12	1.02	4.39	7.90	31.59	28B0375-400
	9.75	10.00	3.80	125	159	286	240-2297-ND	.18	1.45	6.26	11.27	45.09	28B0384-000
	9.75	25.00	3.80	254	322	473	240-2298-ND	.30	2.51	10.84	19.51	78.03	28B0384-200
	9.91	15.00	6.35	88	128	248	240-2299-ND	.18	1.50	6.46	11.63	46.53	28B0390-200
	12.00	10.00	3.55	152	195	320	240-2240-ND	.23	1.87	8.08	14.54	58.14	28B0473-000
	12.00	25.00	3.55	318	424	558	240-2241-ND	.43	3.60	15.51	27.92	111.69	28B0473-200
	12.32	25.40	4.88	253	320	450	240-2114-ND	.43	3.60	15.50	27.90	111.60	28B0485-000
	12.70	6.35	7.92	52	83	200	240-2301-ND	.16	1.29	5.58	10.04	40.14	28B0500-100
	14.27	10.16	6.35	101	145	270	240-2302-ND	.26	2.18	9.38	16.88	67.50	28B0562-000
	14.27	28.58	6.35	262	317	470	240-2078-ND	.58	4.81	20.74	37.33	149.31	28B0562-200
	14.27	15.24	7.26	121	173	295	240-2303-ND	.33	2.76	11.91	21.44	85.77	28B0563-000
	14.27	28.57	7.26	197	287	406	240-2304-ND	.55	4.53	19.54	35.17	140.67	28B0563-200
	14.48	5.51	8.51	51	82	200	240-2305-ND	.17	1.41	6.06	10.91	43.65	28B0570-000
	15.00	35.00	5.90	348	450	580	240-2242-ND	.79	6.57	28.31	50.96	203.85	28B0591-200
	15.65	28.58	7.00	232	310	450	240-2306-ND	.68	5.64	24.30	43.74	174.96	28B0616-000
	15.88	14.27	7.87	87	163	273	240-2307-ND	.38	3.11	13.43	24.17	96.66	28B0625-000
	15.88	28.58	7.87	209	280	400	240-2115-ND	.66	5.49	23.65	42.57	170.28	28B0625-100
	16.00	28.00	9.25	171	243	370	240-2308-ND	.60	4.94	21.29	38.32	153.27	28B0631-100
	17.42	6.35	9.52	61	91	214	240-2310-ND	.23	1.93	8.30	14.94	59.76	28B0686-000
	17.42	28.57	9.52	191	242	390	240-2079-ND	.73	6.06	26.11	47.00	188.01	28B0686-200
	18.67	28.58	10.16	197	250	400	240-2080-ND	.83	6.88	29.66	53.39	213.57	28B0735-000
	18.67	14.27	10.16	108	150	270	240-2311-ND	.46	3.79	16.35	29.43	117.72	28B0735-300
	22.10	6.35	13.72	53	85	205	240-2312-ND	.29	2.41	10.39	18.70	74.79	28B0870-000
	22.10	12.70	13.72	80	122	236	240-2116-ND	.49	4.05	17.46	31.43	125.73	28B0870-100
	25.40	12.70	15.49	83	122	247	240-2313-ND	.63	5.21	22.45	40.41	161.64	28B0999-000
	25.40	12.70	12.70	106	151	278	240-2117-ND	.74	6.10	26.29	47.32	189.27	28B1000-000
	25.91	28.58	12.83	104	276	412	240-2081-ND	1.62	13.40	57.78	104.00	415.98	28B1020-100
	28.50	28.58	13.77	218	307	440	240-2243-ND	1.96	16.21	69.89	125.80	503.19	28B1122-100
	29.01	7.49	19.00	53	85	200	240-2118-ND	.47	3.87	16.68	30.02	120.06	28B1142-000
	29.01	13.84	19.00	77	114	235	240-2314-ND	.79	6.55	28.23	50.81	203.22	28B1142-100
	31.12	15.93	19.05	100	140	270	240-2315-ND	1.10	9.15	39.43	70.97	283.86	28B1225-000
	31.75	22.22	19.05	134	186	292	240-2119-ND	1.60	13.28	57.24	103.03	412.11	28B1250-000
	36.00	12.70	23.00	78	115	230	240-2317-ND	1.11	9.22	39.76	71.57	286.29	28B1417-200
	39.12	22.22	16.76	204	254	405	240-2319-ND	3.03	25.07	108.05	194.49	777.96	28B1540-000
	50.80	28.70	25.40	218	305	442	240-2244-ND	5.97	49.46	213.20	383.76	1535.04	28B2000-100
	60.96	12.70	35.56	90	135	285	240-2120-ND	3.07	25.46	109.75	197.55	790.20	28B2400-000
2	38.86	28.58	12.95	161	210	347	240-2318-ND	2.25	18.66	80.43	144.77	579.06	28B1531-000
	19.64	12.70	5.10	100	141	273	240-2497-ND	.50	4.15	17.90	32.22	128.88	28B0773-050

240-2505-ND Ferrite Broad Band EMI Cores for Round Cables and Wire Bundles Sample Kit (1-12 each of 36 part sizes) **$60.00**

Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI)

High Frequency (300MHz ~ 2GHz) Cylindrical Cores for Round Cables

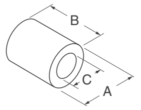

Made from special high frequency material, these ferrite cylinders and toroids have EMI attenuation (impedance) that peaks above 1GHz for most part sizes. Also available in split clamp-on shapes (in plastic cases) listed at the bottom of this page. Size and shape of the part can affect performance and frequency response.

Dimensions (mm)			Net Impedance (Ω)		Digi-Key Part No.	Pricing					Steward Part No.
A	B	C	@ 500MHz	@ 800MHz		1	10	50	100	500	
7.52	10.00	2.39	136	138	240-2146-ND	.25	2.04	8.80	15.84	63.36	HFB075024-000
9.52	10.00	5.08	74	85	240-2145-ND	.29	2.41	10.40	18.72	74.88	HFB095051-100
9.52	19.00	5.08	135	183	240-2140-ND	.48	3.95	17.03	30.65	122.58	HFB095051-200
12.32	5.00	4.88	56	62	240-2269-ND	.29	2.39	10.29	18.52	74.07	HFB123049-000
12.32	10.00	4.88	110	127	240-2149-ND	.49	4.10	17.66	31.79	127.17	HFB123049-100
12.32	25.40	4.88	287	305	240-2270-ND	1.13	9.39	40.46	72.83	291.33	HFB123049-300
14.27	10.00	6.35	100	113	240-2147-ND	.60	4.93	21.25	38.25	153.00	HFB143064-100
14.27	28.58	6.35	315	306	240-2148-ND	1.56	12.94	55.76	100.37	401.49	HFB143064-300
15.24	10.00	3.38	190	189	240-2151-ND	.78	6.48	27.91	50.24	200.97	HFB152034-000
15.65	20.00	6.99	200	216	240-2273-ND	1.32	10.94	47.16	84.89	339.57	HFB157070-000
15.88	28.58	7.87	290	302	240-2142-ND	1.83	15.13	65.23	117.41	469.62	HFB159079-100
16.00	19.00	9.25	145	155	240-2274-ND	1.11	9.23	39.79	71.62	286.47	HFB160093-200
16.00	27.99	9.25	198	261	240-2152-ND	1.60	13.28	57.25	103.05	412.20	HFB160093-300
16.99	10.00	7.01	115	127	240-2153-ND	.84	6.96	30.00	54.00	216.00	HFB170070-000
16.99	20.00	7.01	215	234	240-2275-ND	1.59	13.21	56.93	102.47	409.86	HFB170070-100
18.67	30.00	10.16	250	276	240-2143-ND	2.40	19.91	85.81	154.46	617.85	HFB187102-100
25.91	28.58	12.83	246	268	240-2154-ND	4.67	38.67	166.66	299.99	1199.97	HFB259128-100

Steward a unit of **Laird** TECHNOLOGIES

Clamp-On, Split Ferrite Cores in Plastic Cases for Round Cables and Wire Bundles

RoHS COMPLIANT

Split ferrite bead cores in clamp-on (or snap-on) plastic cases can be easily used for EMI attenuation where one-piece cores cannot be installed. Clamp-on cores are also convenient for use during EMI testing. Cylinder, round and box shaped plastic cased part shapes available. Additional wire turns will multiply impedance. High performance material.

Fig. 1

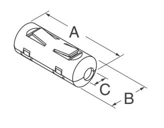

Fig. 2

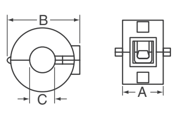

Fig. 3

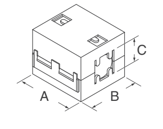

Fig. 4

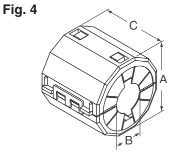

Fig. 5

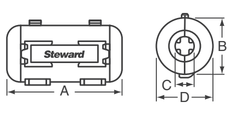

Fig. 6

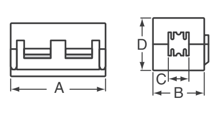

Broad Band Plastic Clamp-On Cores Optimized for 30MHz ~ 800MHz +

Fig.	Case Color	Plastic Case Dimensions - mm			Max. Cable Diameter - mm	Typical Impedance (Ω)		Digi-Key Part No.	Price Each				Steward Part No.
		A	B	C		100MHz	300MHz		1	10	50	100	
								Cylinder Clamp-On Ferrite					
1	Black	25.20	13.00	3.50	3.50	240	400	240-2233-ND§‡	1.37	1.14	.98	.89	28A0350-0B2
	White	29.08	12.80	5.44	4.65	170	320	240-2068-ND	.94	.79	.68	.61	28A0392-0A0
	Black	29.08	12.80	5.44	4.65	170	320	240-2070-ND§‡	.94	.79	.68	.61	28A0392-0A2
	Black	42.55	14.30	5.35	5.10	277	449	240-2344-ND§‡	1.17	.97	.84	.76	28A0434-0A2
	Black	53.39	18.75	4.80	4.50	572	688	240-2245-ND§‡	1.76	1.46	1.26	1.13	28A0592-0A2
	Black	53.39	18.75	6.60	6.55	407	575	240-2246-ND§‡	1.80	1.49	1.29	1.16	28A0593-0A2
	White	40.36	19.10	9.09	8.95	240	390	240-2065-ND	1.30	1.08	.94	.84	28A0640-0A0
	Black	40.36	19.10	9.09	8.95	240	390	240-2066-ND§‡	1.30	1.08	.94	.84	28A0640-0A2
	Black	55.91	24.82	10.00	10.00	348	514	240-2580-ND‡	3.68	3.05	2.63	2.37	28A0807-0A2
	Black	41.68	21.03	7.00	6.35	270	460	240-2122-ND§‡	1.36	1.13	.98	.88	28A2026-0A2
	Black	35.10	18.00	9.00	9.00	220	360	240-2124-ND§‡	1.16	.96	.83	.75	28A2736-0A2
	Black	33.70	30.00	13.00	12.85	260	410	240-2127-ND§‡	6.08	5.04	4.34	3.91	28A3851-0A2
								Round Clamp-On Ferrite					
2	Black	18.00	15.00†	7.00	7.00	123	246	240-2599-ND ***NEW!***	.49	.41	.35	.32	28A1507-0A2
	Black	25.50	13.00†	5.00	2.50	190	330	240-2600-ND ***NEW!***	.46	.38	.33	.30	28A2005-0A2
	Black	30.50	16.50†	7.00	7.00	183	315	240-2601-ND ***NEW!***	.95	.79	.68	.61	28A2307-0A2
	Black	19.90	19.20	8.20	8.13	160	300	240-2123-ND§‡	1.86	1.55	1.33	1.20	28A2432-0A2
	White	35.10	19.70†	9.00	8.00	233	366	240-2602-ND ***NEW!***	.88	.73	.63	.57	28A2738-0A0
	Black	35.10	19.70†	9.00	8.00	233	366	240-2603-ND ***NEW!***	.88	.73	.63	.57	28A2738-0A2
	Black	28.00	16.00†	9.00	9.00	220	360	240-2604-ND ***NEW!***	1.05	.87	.75	.68	28A2809-0A2
	Black	36.25	23.50†	13.06	13.00	177	305	240-2605-ND ***NEW!***	1.26	1.05	.90	.81	28A2913-0A2
	Black	13.60	24.55	10.20	10.19	130	250	240-2125-ND‡	1.96	1.63	1.40	1.26	28A3039-0A2
	Black	15.40	28.80	13.60	13.55	120	230	240-2128-ND‡	2.25	1.87	1.61	1.45	28A4155-0A2
								Box Clamp-On Ferrite					
3	White	32.50	29.00	13.00	12.70	280	440	240-2072-ND	2.92	2.43	2.09	1.88	28A2024-0A0
	Black	32.50	29.00	13.00	12.70	280	440	240-2073-ND§‡	2.92	2.43	2.09	1.88	28A2024-0A2
	White	32.03	17.58	7.26	6.35	320	510	240-2074-ND	1.28	1.06	.92	.83	28A2025-0A0
	Black	32.03	17.58	7.26	6.35	320	510	240-2075-ND§‡	1.28	1.06	.92	.83	28A2025-0A2
	White	32.84	21.77	10.00	9.91	250	420	240-2076-ND	1.67	1.39	1.20	1.08	28A2029-0A0
	Black	32.84	21.77	10.00	9.91	250	420	240-2077-ND§‡	1.67	1.39	1.20	1.08	28A2029-0A2
	Black	42.00	29.20	19.30	18.80	210	360	240-2121-ND§‡	7.15	5.93	5.11	4.60	28A5776-0A2
								Large Round Clamp-On					
4	Black	56.64	19.50	45.00	25.40	425	533	240-2199-ND	9.87	8.18	7.05	6.35	28A5131-0A2

† Dimension does not include hinge

§ 240-2224-ND Split Clamp-On Broad Band EMI Ferrite Cores Small Sample Kit for Round Cables (one each of parts denoted) **$30.00**
‡ 240-2506-ND Split Clamp-On Broad Band EMI Ferrite Cores Large Sample Kit for Round Cables (1-12 each of parts denoted) **$60.00**

High Frequency (300MHz ~ 2GHz) Clamp-On Ferrite Cores

Fig.	Case Color	Plastic Case Dimensions - mm				Max. Cable Diameter - mm	Net Impedance (Ω)		Digi-Key Part No.	Price Each				Steward Part No.
		A	B	C	D		500MHz	800MHz		1	10	50	100	
									Cylinder Clamp-On Ferrite					
5	Black	25.20	13.00	3.50	11.50	3.51	192	190	240-2606-ND ***NEW!***	.77	.64	.55	.50	HFA100035-0A2
	Black	29.30	12.80	5.30	12.40	4.65	152	168	240-2129-ND	1.11	.92	.80	.72	HFA100049-0A2
	Black	41.68	21.03	8.13	21.03	6.35	340	281	240-2132-ND	2.63	2.19	1.89	1.70	HFA150068-0A2
	Black	40.36	19.10	9.09	20.80	8.95	260	262	240-2130-ND	2.42	2.01	1.73	1.56	HFA163090-0A2
									Box Clamp-On Ferrite					
6	Black	32.50	17.88	7.00	18.39	6.35	350	339	240-2131-ND	2.66	2.21	1.90	1.71	HFA150066-0A2
	Black	32.64	21.77	10.00	21.84	9.91	290	280	240-2133-ND	3.60	2.99	2.58	2.32	HFA187102-0A2
	Black	32.51	29.01	13.00	29.60	12.70	315	275	240-2134-ND	6.64	5.51	4.75	4.28	HFA259131-0A2

EPCOS

Ferrite Toroid Cores for Chokes and Transformers

RoHS COMPLIANT

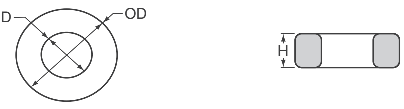

Epcos Ferrite Toroid Cores are used primarily as EMC chokes for suppressing RF interference in the MHz region and in signal.

Dimensions - mm			Relative Initial Permeability (µi)	AL Value (nH)	Digi-Key Part No.	Pricing			Epcos Part No.
OD	ID	H				1	10	100	
6.3	3.8	2.5	10,000	2,530	495-3873-ND	.29	2.18	16.92	B64290P0037X038
6.3	3.8	2.5	4,300	1,090	495-3874-ND	.27	2.00	15.52	B64290P0037X830
10.0	6.0	4.0	10,000	4,090	495-3847-ND	.43	3.25	25.27	B64290L0038X038
10.0	6.0	4.0	4,300	1,760	495-3848-ND	.31	2.29	17.83	B64290L0038X830
10.0	6.0	4.0	2,200	900	495-3849-ND	.26	1.97	15.35	B64290L0038X087
12.5	7.5	5.0	10,000	5,110	495-3851-ND	.53	3.95	30.70	B64290L0044X038
12.5	7.5	5.0	4,300	2,200	495-3852-ND	.45	3.37	26.18	B64290L0044X830
16.0	9.6	6.3	10,000	6,440	495-3854-ND	.82	6.12	47.64	B64290L0045X038
16.0	9.6	6.3	4,300	2,770	495-3855-ND	.72	5.37	41.76	B64290L0045X830
16.0	9.6	6.3	2,200	1,420	495-3856-ND	.68	5.14	39.95	B64290L0045X087
20.0	10.0	7.0	5,100	5,000	495-3863-ND	1.12	8.39	65.22	B64290L0632X035
20.0	10.0	7.0	4,300	4,160	495-3864-ND	1.12	8.39	65.22	B64290L0632X830
22.1	13.7	6.35	2,200	1,340	495-3865-ND	.90	6.73	52.34	B64290L0638X087

Dimensions - mm			Relative Initial Permeability (µi)	AL Value (nH)	Digi-Key Part No.	Pricing			Epcos Part No.
OD	ID	H				1	10	100	
25.3	14.8	10.0	10,000	10,700	495-3861-ND	1.54	11.52	89.58	B64290L0618X038
25.3	14.8	10.0	4,300	4,620	495-3862-ND	1.47	11.06	86.00	B64290L0618X830
34.0	20.5	12.5	4,300	5,460	495-3857-ND	4.19	31.43	244.48	B64290L0048X830
34.0	20.5	10.0	4,300	4,360	495-3858-ND	4.11	30.85	239.91	B64290L0058X830
36.0	23.0	15.0	10,000	13,500	495-3868-ND	6.04	45.34	352.61	B64290L0674X038
36.0	23.0	15.0	4,300	5,750	495-3869-ND	4.89	36.68	285.32	B64290L0674X830
38.1	19.05	12.7	10,000	17,600	495-3867-ND	6.37	47.78	371.63	B64290L0668X038
40.0	24.0	16.0	4,300	7,000	495-3866-ND	5.62	42.14	327.74	B64290L0659X830
41.8	26.2	12.5	4,300	5,000	495-3846-ND	5.37	40.31	313.51	B64290L0022X830
50.0	30.0	20.0	4,300	8,700	495-3871-ND	8.83	66.26	515.32	B64290L0082X830
50.0	30.0	20.0	2,200	4,460	495-3872-ND	9.63	72.26	562.03	B64290L0082X087
58.3	40.8	17.6	4,300	5,400	495-3850-ND	11.54	86.52	672.96	B64290L0040X830
102	65.8	15.0	4,200	5,500	495-3845-ND	36.38	272.81	2121.89	B64290L0084X830

Panasonic®

Surface Mount Bead Cores

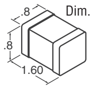

Dim. in mm

0603 **Features: EXC-3BB Series:** • High impedance for high speed signal line • Increase the A characteristics sharply above 40MHz and is applicable for radiated noise in the 100MHz ~ 300MHz range **EXC-3BP Series:** • Reduced DC resistance for EMI suppression • High current rating • Effective noise suppression at high frequency, up to 2GHz **Applications:** Clock line, signal line, I/O interface circuit

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
220Ω	200	0.3	P10188CT-ND	.10	.83	6.93	P10188TR-ND	50.00/M	EXC-3BB221H
600Ω	100	0.8	P10189CT-ND	.10	.83	6.93	P10189TR-ND	50.00/M	EXC-3BB601H
1000Ω	50	1	P10190CT-ND	.10	.83	6.93	P10190TR-ND	50.00/M	EXC-3BB102H
60Ω	1000	0.07	P10749CT-ND	.13	1.10	9.24	P10749TR-ND	66.00/M	EXC-3BP600H
120Ω	500	0.1	P10750CT-ND	.13	1.10	9.24	P10750TR-ND	66.00/M	EXC-3BP121H

High Current

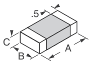

Features: • Super small, high self-resonant frequency and excellent tolerance

Specifications: • **Tolerance:** ±25% • **Test Frequency:** 100MHz

Size	Imp (Ω)	I (A)	Rdc Max. (mΩ)	Dim.(mm) A	B	C	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing* 3,000	4,000	Panasonic Part No.
0603	27	4	6	1.6	.8	.8	P10436CT-ND	.20	1.68	14.07	—	101.00/M	EXC-ML16A270U
0805	39	4	8	2.0	1.2	.9	P10191CT-ND	.20	1.68	14.07	—	101.00/M	EXC-ML20A390U
1206	68	3	12	3.2	1.6	.9	P10437CT-ND	.22	1.83	15.33	110.00/M	—	EXC-ML32A680U
1806	91	3	16	4.5	1.6	1.1	P11956CT-ND	.24	2.01	16.91	121.00/M	—	EXC-ML45A910H

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Bead Core Assortment Kit:
EXC1-KIT-ND 20 each of 9 values (180 pieces) ***(RoHS Compliant)*****.............................$61.95**

Surface Mount Bead Cores

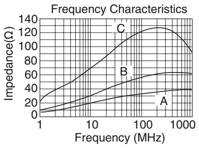

Specifications:

- **Tolerance:** ±25%
- **Test Frequency:** 100MHz
- **Rated Current:** 2A
- **Flow/ Reflow Soldering**

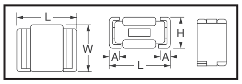

Dia.	Imp. (Ω)	Dimensions (mm) L	W	H	A	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Pricing 2,000	10,000	Panasonic Part No.
A	25	3.2	1.6	1.6	0.5	P9810CT-ND	.38	.32	P9810TR-ND	192.00/M	173.00/M	EXC-CL3216U1
B	45	3.2	2.5	1.6	0.5	P9811CT-ND	.49	.41	P9811TR-ND	246.00/M	221.00/M	EXC-CL3225U1
C	115	4.5	3.2	1.8	0.5	P9812CT-ND	.58	.48	P9812TR-ND	—	259.00/M	EXC-CL4532U1

Surface Mount Bead Core Array

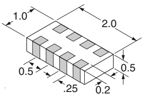

Dim. in mm

0804 (0402x4) **Features** • .02 inch (0.51mm) height, lightweight (typically only 5mg), narrow pitch, compatible with SSOP pitch **EXC-28BB Series:** • Suitable for high speed signals (over 50MHz), excellent cross talk characteristics (100MHz: <-25dB) **Applications:** • PC, LCD, DSC, Printer, PDA, MD, CD, NAVI **EXC-28BA Series:** • Suitable for ring suppression while maintaining wave form, excellent cross talk characteristics (100MHz: <-30dB) **Applications:** • HDD, E-IDE (Ultra DMA 33), DVD, CD-ROM, C-DR, CDR-RW

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 5,000	Panasonic Part No.
120Ω	100	0.5	P10751CT-ND	.66	.56	.47	P10751TR-ND	332.00/M	EXC-28BB121U
220Ω	100	0.7	P10752CT-ND	.66	.56	.47	P10752TR-ND	332.00/M	EXC-28BB221U
120Ω	100	0.5	P10753CT-ND	.66	.56	.47	P10753TR-ND	332.00/M	EXC-28BA121U
220Ω	100	0.7	P10754CT-ND	.66	.56	.47	P10754TR-ND	332.00/M	EXC-28BA221U

EMI Bead Cores (For Electromagnetic Interference)

SPECIFICATIONS: • **DC Resistance:** 10mΩ maximum • **Insulation Resistance:** 10MΩ minimum

Dim. in mm

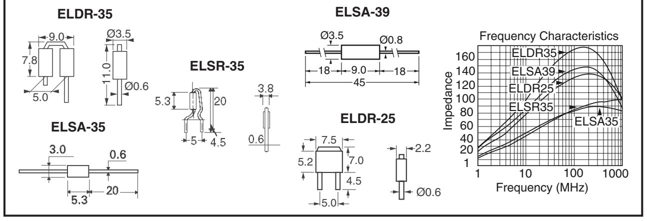

Description	Imp. (Ω) 100 MHz	Digi-Key Part No.	Pricing 1	50	1,000	2,000	Panasonic Part No.
Radial Dual Type (Tape and Box)	90 min.	P9817TB-ND	—	—	83.00	—	EXC-ELDR35V
Radial Dual Type (Bulk)	90 min.	P9817BK-ND	.19	8.25	—	—	EXC-ELDR35C
Axial Single Type (Tape and Box)	80 min.	P9818TB-ND	—	—	59.00	—	EXC-ELSA39V
Axial Single Type (Bulk)	80 min.	P9818BK-ND	.14	5.85	—	—	EXC-ELSA39
Radial Dual Type (Tape and Box)	80 min.	P9819TB-ND	—	—	—	83.00/M	EXC-ELDR25V
Radial Dual Type (Bulk)	80 min.	P9819BK-ND	.19	7.97	—	—	EXC-ELDR25C
Axial Single Type (Tape and Box)	50 min.	P9820TB-ND	—	—	59.00	—	EXC-ELSA35V
Axial Lead Type (Bulk)	50 min.	P9820BK-ND	.14	5.85	—	—	EXC-ELSA35
Radial Single Type (Tape and Box)	50 min.	P9821TB-ND	—	—	59.00	—	EXC-ELSR35T
Radial Form Type (Bulk)	50 min.	P9821BK-ND	.14	5.85	—	—	EXC-ELSR35S

Common Mode Noise Filter

0504 **Features:** • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction **Applications:** General electronic equipment **Specifications:** Temperature Range: -40°C ~ 85°C

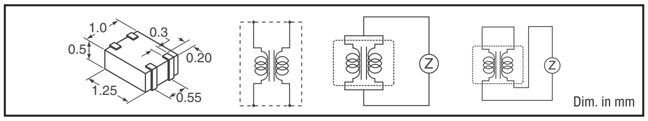

Dim. in mm

Imp. @ 100MHz Common Mode	Differential Mode	Rated Volt. (V DC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
90Ω ±25%	15Ω	5	160	1.75	P12972CT-ND	.44	.37	.35	213.00/M	EXC-24CE900U
120Ω ±25%	18Ω	5	140	2.20	P12970CT-ND	.44	.37	.35	213.00/M	EXC-24CE121U
200Ω ±25%	20Ω	5	130	2.70	P12971CT-ND	.44	.37	.35	213.00/M	EXC-24CE201U

* For Tape and Reel part number, change CT-ND to TR-ND.

Common Mode Noise Filters

0302 **Features:** • Small size and low profile (L 0.85mm x W 0.65mm x H 0.45mm) • Filtering the noise of high-speed differential signaling lines and minimizing deformations of passing signal waveforms • Low DC resistance and insertion loss • Rigidly layered and sintered structured with high resistance to reflow heat and mounting reliability **Applications:** • Noise reduction of high-speed data lines, such as USB and LVDS lines • Mobile phones, DSC, notebook PCs, and other equipment required to be more space-saving **Specifications:** Temperature Range: -40°C ~ 85°C

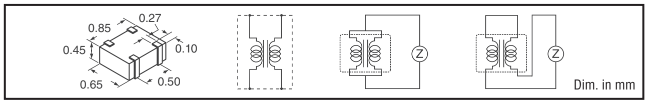

Dim. in mm

Imp. @ 100MHz Common Mode	Differential Mode	Rated Volt. (VDC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel Pricing* 10,000	Panasonic Part No.
90Ω ±20%	20Ω	5	130	2.5	P14216CT-ND	.16	.14	.13	79.00/M	EXC-14CE900U

* For Tape and Reel part number, change CT-ND to TR-ND.

Common Mode Noise Filter Array

0804 **EXC-28CG SERIES: Features:** • 2 Common mode noise filters on one package • The TDR value is controlled to 100Ω (typ.), preventing transmission signal reflection • Meet the HDMI and other eye-pattern standards and suppress the skew, overshoot, and other waveform distortion • Reduce the common mode noise and reform the signal wave by high-coupled inductors • Magnetic shield type • The strong multi-layer structure provides high resistance to reflow soldering heat and a high mounting reliability **Applications:** • HDMI data lines such as TV, STB, DVD, DVC • S-ATA data lines such as PCs, HDD **Specifications:** Temperature Range: -40°C ~ 85°C

EXC-28CE SERIES: Features: • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction • 2 filters in one small package **Applications:** General electronic equipment **Specifications:** Temperature Range: -40°C ~ 85°C

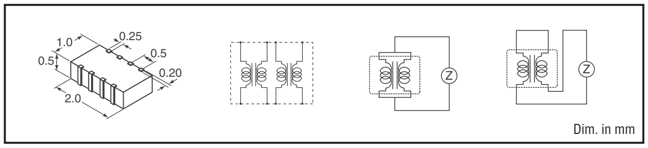

Dim. in mm

Imp. @ 100MHz Common Mode	Differential Mode	Rated Volt. (VDC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	T & R Pricing* 5,000	Panasonic Part No.
24Ω±25%	15Ω	5	160	1.5	P14217CT-ND	.49	.42	.39	239.00/M	EXC-28CG240U
90Ω±25%	17Ω	5	130	3.0	P14218CT-ND	.49	.42	.39	239.00/M	EXC-28CG900U
90Ω±25%	15Ω	5	160	1.5	P12975CT-ND	.64	.54	.51	308.00/M	EXC-28CE900U
120Ω±25%	18Ω	5	140	2.0	P12973CT-ND	.64	.54	.51	308.00/M	EXC-28CE121U
200Ω±25%	20Ω	5	130	2.5	P12974CT-ND	.64	.54	.51	308.00/M	EXC-28CE201U

* For Tape and Reel part number, change CT-ND to TR-ND.

LC/LR Composite Devices

Features:
- Effective for noise and ESD at the same time • Simple pattern without connecting GND pattern

Applications: :
- Information/communication devices with LCD displays

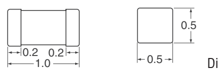

Dim. in mm

Inductance @100MHz ±20% Nom.	Q Min. @100 MHz	Imp. @ 800-900 MHz Nom.	SRF @ ±50MHz Nom. (MHz)	Rdc (Ω Max.)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Tape & Reel Pricing* 10,000	Panasonic Part No.
99nH	4	1500Ω	850	10	90	P13345CT-ND	.13	5.56	10.49	64.00/M	ELW-CF800F01

Inductance @ 100MHz, ±5% Nom.	DCR @ ±20% Nom.	SRF Min. (MHz)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Panasonic Part No.
100nH	100Ω	1200	23	P13346CT-ND	.13	5.46	10.29	ELW-RFR10101F

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic®

Surface Mount 2 Mode Noise Filters

EXC-24CB and EXC-24CP Series

FEATURES:
• Acoustic quality improvement of mobile phone and portable audio equipment • Effectively suppresses both common mode noise and normal mode noise • Small size and light weight
APPLICATIONS:
• Receiver line, microphone line and headset of mobile phone • Small digital equipment such as personal computers, printer, HDD, DVD-ROM, CD-ROM and LCD • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player and MD Player
SPECIFICATIONS:
• **Tolerance:** ±25% • **Rated Voltage**: 5VDC

Dimensions in mm

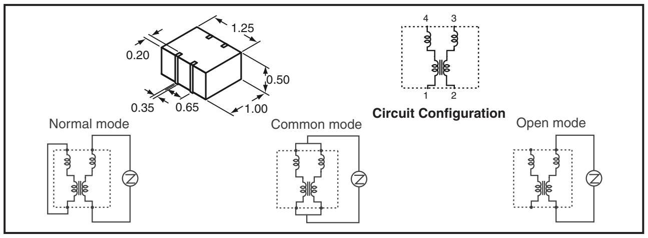

Open Mode Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Tape and Reel† Qty.	Pricing	Panasonic Part No.
1000	50	1.5	P11169CT-ND	.49	20.67	38.96	5,000	239.00/M	EXC-24CB102U
220	100	0.7	P11170CT-ND	.49	20.67	38.96	5,000	239.00/M	EXC-24CB221U
600	200	0.9	P14215CT-ND	.09	3.93	7.40	10,000	45.00/M	EXC-24CN601X
220	350	0.4	P11598CT-ND	.51	21.45	40.43	5,000	248.00/M	EXC-24CP221U
120	500	0.3	P11597CT-ND	.51	21.45	40.43	5,000	248.00/M	EXC-24CP121U

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Common Mode Noise Filters

Dimensions in mm

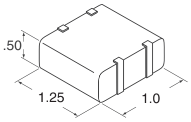

APPLICATIONS: AV Equipment, USB, LVDS, IEEE1394, HDMI, SATA
SPECIFICATIONS: • **Rated Voltage:** 5VDC

Impedance @100MHz (Ω) Common Mode	Differential Mode	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel† Pricing 5,000	Panasonic Part No.
120	35	140	2	P11171CT-ND	.69	.58	.55	332.00/M	EXC-24CD121U
200	40	130	3	P11172CT-ND	.69	.58	.55	332.00/M	EXC-24CD201U
60	20	160	2	P11173CT-ND	.69	.58	.55	332.00/M	EXC-24CD600U
90	30	160	2	P11174CT-ND	.69	.58	.55	332.00/M	EXC-24CD900U
36	20	200	1	P13759CT-ND	.53	.45	.42	255.00/M	EXC-24CE360UP
90	20	130	2.5	P13761CT-ND	.53	.45	.42	255.00/M	EXC-24CF900U
24	15	160	1.5	P13760CT-ND	.68	.58	.55	331.00/M	EXC-24CG240U
90	20	100	3	P13570CT-ND	.67	.57	.54	326.00/M	EXC-24CG900U

† For Tape and Reel part number, change CT-ND to TR-ND.

SMT EMI Filters

SPECIFICATIONS: • 50VDC • 2A Maximum

Dimensions in mm

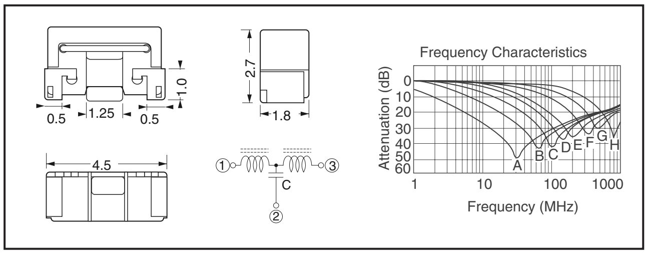

Dia.	Cap. (pF)	25dB Frequency (MHz)	15dB Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
H	22	800 ~ 1,000	600 ~ 1,000	P9825CT-ND	.66	.56	P9825TR-ND	321.00	EXC-CET220U
G	47	450 ~ 550	350 ~ 1,000	P9826CT-ND	.66	.56	P9826TR-ND	321.00	EXC-CET470U
F	100	300 ~ 450	200 ~ 900	P9827CT-ND	.66	.56	P9827TR-ND	321.00	EXC-CET101U
E	270	200 ~ 300	80 ~ 700	P9828CT-ND	.66	.56	P9828TR-ND	321.00	EXC-CET271U
D	470	100 ~ 220	50 ~ 700	P9829CT-ND	.66	.56	P9829TR-ND	321.00	EXC-CET471U
C	1,000	65 ~ 200	30 ~ 700	P9830CT-ND	.66	.56	P9830TR-ND	321.00	EXC-CET102U
B	2,200	35 ~ 180	15 ~ 700	P9831CT-ND	.66	.56	P9831TR-ND	321.00	EXC-CET222U
A	10,000	15 ~ 120	15 ~ 700	P9832CT-ND	.66	.56	P9832TR-ND	321.00	EXC-CET103U

SMT Digital Noise Filters

Series K: Type E

High performance noise filter for digital signal processing circuits.

FEATURES: • 3218 case size, 2A rated current • No variation in attenuation characteristics as current changes • The stable P/N marking using laser technology makes the part number check easier

SPECIFICATIONS: • Operating Temperature: -20 ~ +85°C • Rated Voltage: DC 50V (Except ELKE333FA: DC 25V) • Rated Current: DC 2A • Reliability characteristics endurance (High Temp.) Soldering condition (reflow): 85°C 50V 2A 1000h (Spec: 500h)

APPLICATIONS: • Office automated equipment • TVs, VTRs • Communication equipment

Dimensions in mm

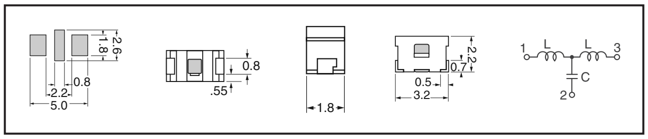

Cut-off Frequency (MHz)	Inner Capacitance (pF typ.)	Rated Voltage (V)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel† Pricing 2,000	Panasonic Part No.
250	10	50	2.0	P9870CT-ND	.48	.41	.38	231.00/M	ELK-E100FA
200	22	50	2.0	P9871CT-ND	.48	.41	.38	231.00/M	ELK-E220FA
100	47	50	2.0	P9872CT-ND	.48	.41	.38	231.00/M	ELK-E470FA
50	100	50	2.0	P9873CT-ND	.48	.41	.38	231.00/M	ELK-E101FA
25	220	50	2.0	P9874CT-ND	.48	.41	.38	231.00/M	ELK-E221FA
10	470	50	2.0	P9875CT-ND	.48	.41	.38	231.00/M	ELK-E471FA
5	1000	50	2.0	P9876CT-ND	.48	.41	.38	231.00/M	ELK-E102FA
2	2200	50	2.0	P9877CT-ND	.48	.41	.38	231.00/M	ELK-E222FA
0.5/DC	10000	50	2.0	P9878CT-ND	.48	.41	.38	231.00/M	ELK-E103FA
0.2/DC	33000	25	2.0	P13159CT-ND	.48	.41	.38	231.00/M	ELK-E333FA

† For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters

ELKT Type

Useful EMI noise filter when signal and noise frequency are close in frequency. T type radial lead EMI filter consisting of one capacitor and two inductors.

FEATURES:
• Flat response at signal frequency and sharp noise attenuation characteristics • Minimal distortion of pulse signal wave form and excellent noise attenuation toward high frequency noise (good EMI filter for analog signal line such as video signal)

APPLICATIONS:
• Reduction of EMI noise on the signal line, I/O line and DC line circuit within OA, AV, communication equipment

Replaces ELK-A series

Dimensions in mm

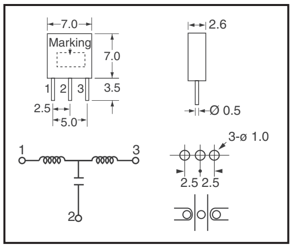

Cut-off Frequency (MHz)	Impedance Zo(Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Panasonic Part No.
55	300	100	P11101CT-ND	1.01	.85	.80	ELK-TT180EA

ESD Suppressor

FEATURES: • ESD Protection of high-speed data lines • Low capacitance 0.04 pF: 0201 size, 0.05 pF: 0402 size, 0.1pF: 0603 size • Good ESD suppression characteristics • Good ESD withstanding • Operating Temperature Range: -55°C ~ 125°C **APPLICATIONS:** • High-Speed Data Lines (HDMI, SATA, USB, IEEE1394, Display port) • Antenna Circuitry and RF Modules (Cellular Phones) **SPECIFICATIONS:** • **Rated Voltage:** 30V maximum

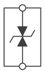

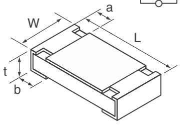

Size Code	Dimensions – mm L	W	a	b	t
EZAEG1A (0201)	0.60	0.30	0.15	0.15	0.23
EZAEG2A (0402)	1.00	0.50	0.20	0.25	0.38
EZAEG3A (0603)	1.60	0.80	0.30	0.30	0.50

Max. Peak Volt.	Max. Clamp. Volt.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
500V	100V	P14219CT-ND	.63	3.68	25.16	P14219TR-ND	15,000	157.00/M	EZA-EG1A50AC
	100V	P13571CT-ND	.48	2.70	17.52	P13571TR-ND	10,000	103.00/M	EZA-EG2A50AX
	100V	P13682CT-ND	.56	3.15	20.48	P13682TR-ND	5,000	126.00/M	EZA-EG3A50AV

ESD Suppressor Array

0805 Series

Dimensions in mm

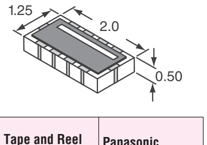

FEATURES:
• ESD Protection of high-speed data lines • Low capacitance 0.25pF
• Good ESD suppression characteristics • Good ESD withstanding
APPLICATIONS:
• High-Speed Data Lines (HDMI, IEEE1394)
SPECIFICATIONS:
• **Rated Voltage:** 15V • Operating Temperature Range: -55°C ~ 125°C

Max. Peak Voltage	Max. Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
500V	100V	P14127CT-ND	1.42	.88	.64	P14127TR-ND	5,000	443.00/M	EZA-EGCA50AV

Panasonic

Digital Noise Filters ELK-EV Type

FEATURES:
- Effective on both EMI noise and ESD
- Improves the varistor suppression and spike voltage
- Small size (1216 size) • Good DC loaded characteristics up to 2A

SPECIFICATIONS:
- Rated Current: 2.0A Maximum
- DCR (DC Resistance): 0.02Ω Typical

APPLICATIONS:
- Countermeasure for ESD and EMI noise on DC line such as POS, FA machine, Amusement and etc.

Dimensions in mm

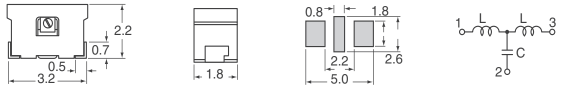

Inductance (1-3) ±40% (nH)	Varistor Voltage (V 1mA)	Capacitance (1-2) Typical (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	50	Tape and Reel Pricing‡ 2,000	Panasonic Part No.
60	27 ±25%	15	700 ~ 1500	P13170CT-ND	.88	.75	428.00/M	ELK-EV150FF
	27 ±25%	30	450 ~ 1000	P13171CT-ND	.88	.75	428.00/M	ELK-EV300FF
	27 ±25%	160	150 ~ 1000	P13172CT-ND	.88	.75	428.00/M	ELK-EV161FF
	27 ±25%	430	80 ~ 1000	P13173CT-ND	.88	.75	428.00/M	ELK-EV431FF
	22 ±25%	560	60 ~ 1000	P13174CT-ND	.88	.75	428.00/M	ELK-EV561FE
	12 ±25%	1050	40 ~ 1000	P13175CT-ND	.88	.75	428.00/M	ELK-EV112FC
	12 ±25%	3500	15 ~ 1000	P13176CT-ND	.88	.75	428.00/M	ELK-EV352FC

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters ELK-EA Type

FEATURES:
- Small size
- Good DC loaded characteristics up to 5A
- Steep attenuation and stable frequency characteristics at high impedance load

SPECIFICATIONS:
- Rated Current: 5.0A Maximum
- Rated Voltage Maximum: 50V P13160-P13168; 25V P13169
- DCR (DC Resistance): 4mΩ Typical

Dimensions in mm

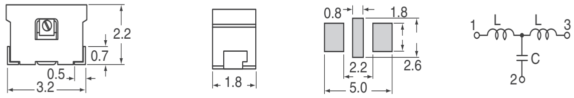

Inductance (1-3) ±40% (nH)	Capacitance (1-2) (pF)	Nominal Capacitance (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	50	Tape & Reel Pricing‡ 2,000	Panasonic Part No.
14	10 ±20%	10	1200 ~ 1500	P13160CT-ND	.53	.45	257.00/M	ELK-EA100FA
	22 ±20%	22	700 ~ 1000	P13161CT-ND	.53	.45	257.00/M	ELK-EA220FA
	47 ±20%	47	400 ~ 1000	P13162CT-ND	.53	.45	257.00/M	ELK-EA470FA
	100 ±20%	100	250 ~ 1000	P13163CT-ND	.53	.45	257.00/M	ELK-EA101FA
	220 ±20%	220	150 ~ 1000	P13164CT-ND	.53	.45	257.00/M	ELK-EA221FA
	485 ±20%	470	70 ~ 1000	P13165CT-ND	.53	.45	257.00/M	ELK-EA471FA
	1,030 ±30%	1,000	40 ~ 1000	P13166CT-ND	.53	.45	257.00/M	ELK-EA102FA
	2,140 ±30%	2,200	20 ~ 1000	P13167CT-ND	.53	.45	257.00/M	ELK-EA222FA
	9,700 ±30%	10,000	4 ~ 1000	P13168CT-ND	.53	.45	257.00/M	ELK-EA103FA
	32,000 ±30%	33,000	2 ~ 1000	P13169CT-ND	.53	.45	257.00/M	ELK-EA333FA

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Combination Line Filters

Series C, types 21C, 25C and 25C (F)

Combination line filters applicable for attenuation of both the common mode and normal mode.

FEATURES:
- Addition of superior normal mode attenuation characteristics • Compact and high inductance • Low profile and suitable for high density mounting

RECOMMENDED APPLICATIONS:
- Lighting equipment • AV Equipment • Communication equipment • Power supply

SPECIFICATIONS:
- Operating Temperature: -20°C ~ 115°C • Voltage: AC 250Vrms Maximum • Dielectric withstanding voltage: AC 2kV 1 minute • Temperature rise: 45 K Maximum

Dimensions in mm

21C Type

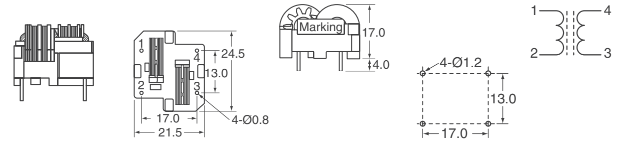

25C Type

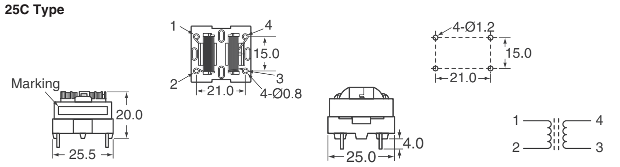

25C (F) Type

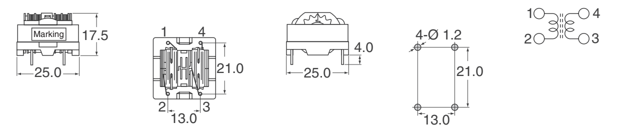

Inductance (mH Min.) Common	Normal	DCR (@ 20°C) (Ω) ±20% Tol.	Rated Current (A rms) Max.	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
				21C Type				
43.0	1.70	3.07	0.3	PLK1294-ND◆	3.26	2.73	2.58	ELF-21C003A
25.0	.960	1.75	0.4	PLK1295-ND	3.26	2.73	2.58	ELF-21C004A
11.0	.440	.790	0.6	PLK1296-ND◆	3.26	2.73	2.58	ELF-21C006A
6.40	.250	.450	0.9	PLK1297-ND◆	3.26	2.73	2.58	ELF-21C009A
3.90	.150	.300	1.1	PLK1298-ND	3.26	2.73	2.58	ELF-21C011A
2.30	.090	.170	1.5	PLK1299-ND	3.26	2.73	2.58	ELF-21C015A
1.70	.065	.120	1.8	PLK1300-ND◆	3.26	2.73	2.58	ELF-21C018A
1.00	.040	.080	2.3	PLK1301-ND◆	3.26	2.73	2.58	ELF-21C023A
				25C Type				
184.0	5.30	5.031	0.3	PLK1302-ND◆	4.11	3.45	3.26	ELF-25C003A
72.0	2.10	1.891	0.5	PLK1303-ND◆	4.11	3.45	3.26	ELF-25C005A
34.0	0.90	.916	0.7	PLK1304-ND◆	4.11	3.45	3.26	ELF-25C007A
20.0	0.52	.510	0.9	PLK1305-ND◆	4.11	3.45	3.26	ELF-25C009A
11.0	0.31	.310	1.2	PLK1306-ND	4.11	3.45	3.26	ELF-25C012A
6.70	.180	.180	1.6	PLK1307-ND◆	4.11	3.45	3.26	ELF-25C016A
4.40	.110	.113	2.0	PLK1308-ND	4.11	3.45	3.26	ELF-25C020A
3.00	.080	.080	2.5	PLK1309-ND◆	4.11	3.45	3.26	ELF-25C025A
1.80	.050	.053	3.2	PLK1310-ND	4.11	3.45	3.26	ELF-25C032A
1.20	.03	.037	3.8	PLK1311-ND◆	4.11	3.45	3.26	ELF-25C038A
				25C (F) Type — RoHS Compliant				
85.0	2.10	1.891	0.5	PLK1312-ND	3.97	3.33	3.14	ELF-25C005F
52.0	1.28	1.270	0.6	PLK1313-ND	3.97	3.33	3.14	ELF-25C006F
34.0	0.90	0.916	0.7	PLK1314-ND	3.97	3.33	3.14	ELF-25C007F
26.0	0.68	0.673	0.8	PLK1315-ND	3.97	3.33	3.14	ELF-25C008F
20.0	0.52	0.510	0.9	PLK1316-ND	3.97	3.33	3.14	ELF-25C009F
11.0	0.31	0.310	1.2	PLK1317-ND	3.97	3.33	3.14	ELF-25C012F
6.7	0.18	0.180	1.6	PLK1318-ND	3.97	3.33	3.14	ELF-25C016F
4.4	0.11	0.113	2.0	PLK1319-ND	3.97	3.33	3.14	ELF-25C020F

◆ *RoHS Compliant*

Panasonic Line Filters

V Series (290, 450, 650, 850, 21V, 22V, 24V Types)
H Series (200, 270, 400, 600 Types)
F Series (23F, 25F Types)
M Series (11M, 14M, 16M Types)
N Series (15N, 18N, 20N Types)
High N Series (17N, 19N, 21N Types)

Standard Circuit Diagram

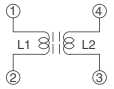

Circuit Example

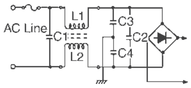

Line filters for suppressing conductive noise ranging from low to high frequencies generated from power supply circuits of various equipment

V Series (Vertical Structure): Excellent attenuation in high frequency characteristics
H Series (Horizontal Structure): Greatly decreases leakage flux
F Series (Thin Structure): 15 mm height max.
M Series (Small Structure): Small size and lightweight
N Series (Vertical Structure): Suitable for high-density automatic insertion
High N Series (High L Structure): High inductance (same size with N Series)

Dim. in mm

290 Type

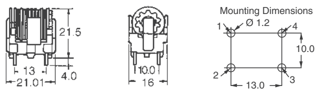

450, 650 Type Dimensions: shown in [ ] are for 450 type.

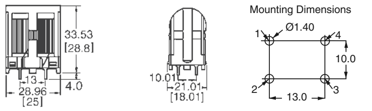

850 Type

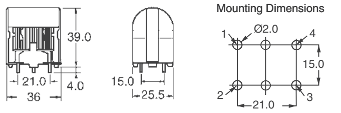

21V Type

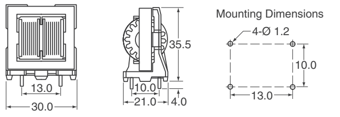

22V Type

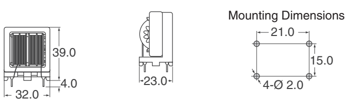

24V Type

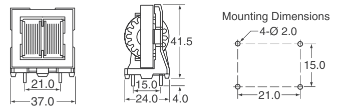

270 Type

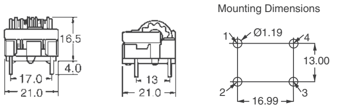

200, 400, 600 Type

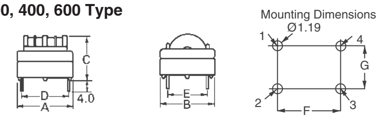

Type	A	B	C	D	E	F	G
200	20.00	21.00	20.00	13.00	10.00	13.00	10.00
400	24.00	24.50	19.50	21.00	15.00	21.00	15.00
600	28.50	29.00	22.50	24.00	20.00	24.00	20.00

23F, 25F Types

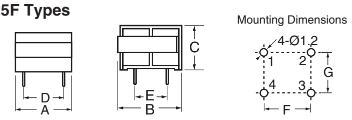

Type	A Max.	B Max.	C Max.	D	E	F	G
23F	24	23	14	16±0.5	10±0.5	16±0.1	10±0.1
25F	28	25	15	21±0.5	11±0.5	21±0.1	11±0.1

15N Type

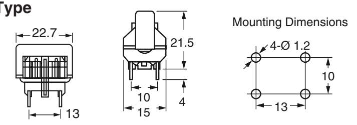

18N Type

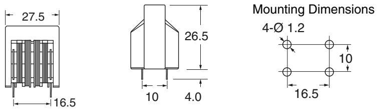

20N Type

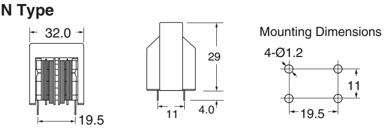

17N Type

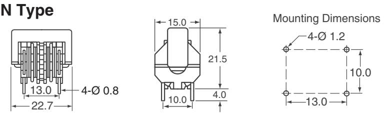

19N Type

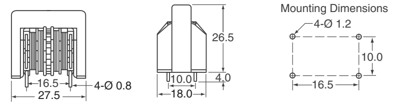

21N Type

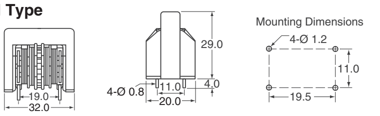

11M Type

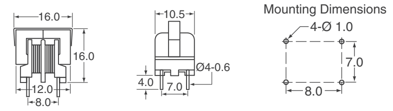

14M Type

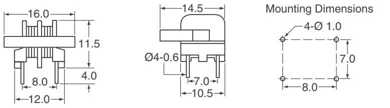

16M Type

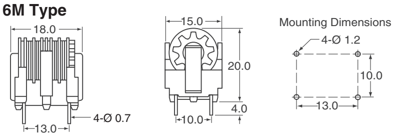

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
V Series								
290	33.0	0.3	PLK1005-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290H
	22.0	0.4	PLK1004-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290C
	10.0	0.6	PLK1003-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290G
	3.3	1.1	PLK1002-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290S
	2.2	1.3	PLK1001-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290T
	0.82	2.0	PLK1000-ND◆	2.98	124.80	235.20	1440.00	ELF-18D290B
450	56.0	0.45	PLK1206-ND	5.03	210.99	397.64	2434.50	ELF-18D450Q
	39.0	0.50	PLK1207-ND	5.03	210.99	397.64	2434.50	ELF-18D450H
	18.0	0.8	PLK1007-ND	5.03	210.99	397.64	2434.50	ELF-18D450B
	10.0	1.0	PLK1208-ND	5.03	210.99	397.64	2434.50	ELF-18D450J
	8.2	1.1	PLK1209-ND	5.03	210.99	397.64	2434.50	ELF-18D450G
	6.8	1.2	PLK1210-ND	5.03	210.99	397.64	2434.50	ELF-18D450L
	5.6	1.4	PLK1211-ND◆	5.03	210.99	397.64	2434.50	ELF-18D450D
	3.9	1.8	PLK1212-ND	5.03	210.99	397.64	2434.50	ELF-18D450K
	2.7	2.0	PLK1006-ND◆	5.03	210.99	397.64	2434.50	ELF-18D450A
	2.2	2.2	PLK1213-ND	5.03	210.99	397.64	2434.50	ELF-18D450C
	1.2	3.0	PLK1214-ND	5.03	210.99	397.64	2434.50	ELF-18D450M
650	68.0	0.6	PLK1223-ND	5.50	230.75	434.88	2662.50	ELF-18D656S
	47.0	0.7	PLK1012-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650U
	39.0	0.7	PLK1215-ND	5.50	230.75	434.88	2662.50	ELF-18D650P
	33.0	0.8	PLK1216-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650H
	27.0	1.0	PLK1224-ND◆	5.50	230.75	434.88	2662.50	ELF-18D656V
	22.0	1.0	PLK1011-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650L
	18.0	1.0	PLK1217-ND	5.50	230.75	434.88	2662.50	ELF-18D650Q
	18.0	1.2	PLK1225-ND	5.50	230.75	434.88	2662.50	ELF-18D656Q
	15.0	1.3	PLK1226-ND	5.50	230.75	434.88	2662.50	ELF-18D656D
	12.0	1.3	PLK1218-ND	5.50	230.75	434.88	2662.50	ELF-18D650J
	12.0	1.6	PLK1038-ND◆	5.50	230.75	434.88	2662.50	ELF-18D656J
	10.0	1.4	PLK1219-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650W
	8.2	1.7	PLK1010-ND	5.50	230.75	434.88	2662.50	ELF-18D650C
	6.8	1.8	PLK1220-ND	5.50	230.75	434.88	2662.50	ELF-18D650K
	6.8	2.0	PLK1227-ND	5.50	230.75	434.88	2662.50	ELF-18D656K
	5.6	2.2	PLK1228-ND	5.50	230.75	434.88	2662.50	ELF-18D656X

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
650	4.7	2.0	PLK1221-ND	5.50	230.75	434.88	2662.50	ELF-18D650Y
	3.3	2.4	PLK1009-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650B
	1.8	2.8	PLK1222-ND	5.50	230.75	434.88	2662.50	ELF-18D650G
	1.5	3.1	PLK1008-ND◆	5.50	230.75	434.88	2662.50	ELF-18D650M
	4.7	2.5	PLK1229-ND	5.50	230.75	434.88	2662.50	ELF-18D656Y
	2.7	2.7	PLK1230-ND	5.50	230.75	434.88	2662.50	ELF-18D656Z
	2.2	2.8	PLK1037-ND	5.50	230.75	434.88	2662.50	ELF-18D666A
850	82.0	0.8	PLK1231-ND	8.70	364.78	687.47	4209.00	ELF-18D850R
	56.0	1.1	PLK1017-ND◆	8.70	364.78	687.47	4209.00	ELF-18D850T
	47.0	1.2	PLK1232-ND	8.70	364.78	687.47	4209.00	ELF-18D850U
	33.0	1.4	PLK1233-ND	8.70	364.78	687.47	4209.00	ELF-18D850H
	27.0	1.5	PLK1234-ND	8.70	364.78	687.47	4209.00	ELF-18D850Z
	22.0	1.8	PLK1018-ND◆	8.70	364.78	687.47	4209.00	ELF-18D860C
	18.0	1.9	PLK1235-ND	8.70	364.78	687.47	4209.00	ELF-18D850Q
	15.0	2.0	PLK1236-ND◆	8.70	364.78	687.47	4209.00	ELF-18D850D
	10.0	2.5	PLK1016-ND	8.70	364.78	687.47	4209.00	ELF-18D850W
	8.2	3.0	PLK1237-ND	8.70	364.78	687.47	4209.00	ELF-18D850C
	5.6	3.4	PLK1238-ND	8.70	364.78	687.47	4209.00	ELF-18D850X
	4.7	3.5	PLK1015-ND◆	8.70	364.78	687.47	4209.00	ELF-18D850Y
	3.9	3.7	PLK1239-ND	8.70	364.78	687.47	4209.00	ELF-18D850P
	3.3	4.2	PLK1014-ND◆	8.70	364.78	687.47	4209.00	ELF-18D850B
	2.7	4.5	PLK1240-ND	8.70	364.78	687.47	4209.00	ELF-18D860B
	1.5	5.0	PLK1013-ND◆	8.70	364.78	687.47	4209.00	ELF-18D850M
21V	68.0	0.6	PLK1102-ND◆	4.13	173.03	326.10	1996.50	ELF-21V006A
	56.0	0.7	PLK1103-ND	4.13	173.03	326.10	1996.50	ELF-21V007A
	33.0	0.8	PLK1104-ND	5.12	214.50	404.25	2475.00	ELF-21V008A
	27.0	1.0	PLK1105-ND	5.12	214.50	404.25	2475.00	ELF-21V010A
	18.0	1.2	PLK1106-ND	5.12	214.50	404.25	2475.00	ELF-21V012A
	15.0	1.3	PLK1107-ND	5.12	214.50	404.25	2475.00	ELF-21V013A
	12.0	1.6	PLK1108-ND◆	5.12	214.50	404.25	2475.00	ELF-21V016A
	8.2	1.8	PLK1109-ND◆	5.12	214.50	404.25	2475.00	ELF-21V018A
	6.8	2.0	PLK1110-ND◆	5.12	214.50	404.25	2475.00	ELF-21V020A
	5.6	2.2	PLK1111-ND	5.12	214.50	404.25	2475.00	ELF-21V022A

◆ *RoHS Compliant*

(Continued)

Panasonic® Line Filters *(Cont.)*

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
21V	4.5	2.5	PLK1112-ND	5.12	214.50	404.25	2475.00	ELF-21V025A
	2.7	2.7	PLK1113-ND◆	5.12	214.50	404.25	2475.00	ELF-21V027A
	2.2	3.0	PLK1114-ND	5.12	214.50	404.25	2475.00	ELF-21V030A
22V (A)	23.3	2.0	PLK1320-ND◆	4.46	187.12	352.65	2159.10	ELF-22V020A
	12.6	2.5	PLK1321-ND	4.46	187.12	352.65	2159.10	ELF-22V025A
	9.8	3.0	PLK1322-ND◆	4.46	187.12	352.65	2159.10	ELF-22V030A
	7.3	3.5	PLK1323-ND◆	4.46	187.12	352.65	2159.10	ELF-22V035A
	5.8	4.0	PLK1324-ND◆	4.46	187.12	352.65	2159.10	ELF-22V040A
	4.0	5.0	PLK1325-ND◆	4.46	187.12	352.65	2159.10	ELF-22V050A
	3.0	6.0	PLK1326-ND◆	4.46	187.12	352.65	2159.10	ELF-22V060A
	2.0	7.0	PLK1327-ND◆	4.46	187.12	352.65	2159.10	ELF-22V070A
22V (B)	27.0	2.0	PLK1328-ND◆	4.46	187.12	352.65	2159.10	ELF-22V020B
	18.0	2.5	PLK1329-ND◆	4.46	187.12	352.65	2159.10	ELF-22V025B
	13.1	3.0	PLK1330-ND◆	4.46	187.12	352.65	2159.10	ELF-22V030B
	9.3	3.5	PLK1331-ND◆	4.46	187.12	352.65	2159.10	ELF-22V035B
	6.9	4.0	PLK1332-ND◆	4.46	187.12	352.65	2159.10	ELF-22V040B
	4.5	5.0	PLK1333-ND◆	4.46	187.12	352.65	2159.10	ELF-22V050B
	3.2	6.0	PLK1334-ND◆	4.46	187.12	352.65	2159.10	ELF-22V060B
	2.2	7.0	PLK1335-ND◆	4.46	187.12	352.65	2159.10	ELF-22V070B
22V (C)	16.0	2.0	PLK1336-ND◆	4.46	187.12	352.65	2159.10	ELF-22V020C
	9.8	2.5	PLK1337-ND◆	4.46	187.12	352.65	2159.10	ELF-22V025C
	8.0	3.0	PLK1338-ND◆	4.46	187.12	352.65	2159.10	ELF-22V030C
	5.8	3.5	PLK1339-ND◆	4.46	187.12	352.65	2159.10	ELF-22V035C
	4.5	4.0	PLK1340-ND◆	4.46	187.12	352.65	2159.10	ELF-22V040C
24V	82.0	0.8	PLK1115-ND	5.12	214.50	404.25	2475.00	ELF-24V008A
	56.0	1.0	PLK1116-ND	5.12	214.50	404.25	2475.00	ELF-24V010A
	47.0	1.2	PLK1117-ND	5.12	214.50	404.25	2475.00	ELF-24V012A
	33.0	1.4	PLK1118-ND	5.12	214.50	404.25	2475.00	ELF-24V014A
	27.0	1.5	PLK1119-ND	5.12	214.50	404.25	2475.00	ELF-24V015A
	22.0	1.8	PLK1120-ND	5.12	214.50	404.25	2475.00	ELF-24V018A
	18.0	1.9	PLK1121-ND	5.12	214.50	404.25	2475.00	ELF-24V019A
	15.0	2.0	PLK1122-ND	5.12	214.50	404.25	2475.00	ELF-24V020A
	10.0	2.5	PLK1123-ND	5.12	214.50	404.25	2475.00	ELF-24V025A
	9.0	2.8	PLK1124-ND	5.12	214.50	404.25	2475.00	ELF-24V028A
	8.2	3.0	PLK1125-ND	5.12	214.50	404.25	2475.00	ELF-24V030A
	5.6	3.4	PLK1126-ND	5.12	214.50	404.25	2475.00	ELF-24V034A
	4.7	3.5	PLK1127-ND	7.60	318.50	600.25	3675.00	ELF-24V035A
	3.9	3.7	PLK1128-ND	7.60	318.50	600.25	3675.00	ELF-24V037A
	3.3	4.2	PLK1129-ND◆	7.60	318.50	600.25	3675.00	ELF-24V042A
	2.7	4.5	PLK1130-ND	7.60	318.50	600.25	3675.00	ELF-24V045A
	1.5	5.0	PLK1131-ND	7.60	318.50	600.25	3675.00	ELF-24V050A
	0.80	7.0	PLK1132-ND◆	7.60	318.50	600.25	3675.00	ELF-24V070A
	0.40	8.0	PLK1133-ND	7.60	318.50	600.25	3675.00	ELF-24V080A
	0.26	9.0	PLK1134-ND	7.60	318.50	600.25	3675.00	ELF-24V090A
	0.15	10.0	PLK1135-ND◆	7.60	318.50	600.25	3675.00	ELF-24V100A
			H Series					
200	68.0	0.25	PLK1247-ND◆	3.40	142.48	268.52	1644.00	ELF-18D222F
	47.0	0.3	PLK1248-ND◆	3.40	142.48	268.52	1644.00	ELF-18D235F
	33.0	0.4	PLK1024-ND◆	3.40	142.48	268.52	1644.00	ELF-18D221F
	22.0	0.4	PLK1021-ND	3.40	142.48	268.52	1644.00	ELF-18D218
	18.0	0.5	PLK1241-ND◆	3.40	142.48	268.52	1644.00	ELF-18D210
	15.0	0.5	PLK1242-ND	3.40	142.48	268.52	1644.00	ELF-18D215
	8.2	0.7	PLK1243-ND	3.40	142.48	268.52	1644.00	ELF-18D214
	6.8	0.8	PLK1244-ND	3.40	142.48	268.52	1644.00	ELF-18D225
	4.7	1.0	PLK1249-ND	3.40	142.48	268.52	1644.00	ELF-18D227F
	3.9	1.0	PLK1020-ND◆	3.40	142.48	268.52	1644.00	ELF-18D216
	3.3	1.0	PLK1245-ND	3.40	142.48	268.52	1644.00	ELF-18D213
	2.7	1.3	PLK1246-ND	3.40	142.48	268.52	1644.00	ELF-18D219
	2.2	1.5	PLK1023-ND◆	3.40	142.48	268.52	1644.00	ELF-18D228F
	1.5	1.6	PLK1019-ND◆	3.40	142.48	268.52	1644.00	ELF-18D217
	1.2	2.0	PLK1250-ND	3.40	142.48	268.52	1644.00	ELF-18D230F
	1.0	2.1	PLK1022-ND	3.40	142.48	268.52	1644.00	ELF-18D212F
270	33.0	0.3	PLK1251-ND	2.98	124.80	235.20	1440.00	ELF-18D270J
	22.0	0.4	PLK1252-ND	2.98	124.80	235.20	1440.00	ELF-18D270B
	18.0	0.5	PLK1253-ND◆	2.98	124.80	235.20	1440.00	ELF-18D270H
	10.0	0.6	PLK1254-ND	2.98	124.80	235.20	1440.00	ELF-18D270G
	6.8	0.7	PLK1025-ND◆	2.98	124.80	235.20	1440.00	ELF-18D270A
	5.6	0.8	PLK1255-ND	2.98	124.80	235.20	1440.00	ELF-18D270Q
	2.7	1.1	PLK1256-ND	2.98	124.80	235.20	1440.00	ELF-18D270D
	1.8	1.5	PLK1257-ND	2.98	124.80	235.20	1440.00	ELF-18D270C
400	68.0	0.4	PLK1266-ND	4.03	169.13	318.75	1951.50	ELF-18D437F
	39.0	0.5	PLK1267-ND	4.03	169.13	318.75	1951.50	ELF-18D427F
	33.0	0.5	PLK1029-ND◆	4.03	169.13	318.75	1951.50	ELF-18D428
	27.0	0.6	PLK1258-ND◆	4.03	169.13	318.75	1951.50	ELF-18D423
	22.0	0.6	PLK1259-ND	4.03	169.13	318.75	1951.50	ELF-18D422
	18.0	0.7	PLK1260-ND	4.03	169.13	318.75	1951.50	ELF-18D417
	18.0	0.8	PLK1268-ND◆	4.03	169.13	318.75	1951.50	ELF-18D417F
	12.0	0.9	PLK1028-ND	4.03	169.13	318.75	1951.50	ELF-18D430
	10.0	1.0	PLK1031-ND◆	4.03	169.13	318.75	1951.50	ELF-18D431F
	8.2	1.0	PLK1261-ND	4.03	169.13	318.75	1951.50	ELF-18D415
	6.8	1.2	PLK1262-ND	4.03	169.13	318.75	1951.50	ELF-18D412
	5.6	1.3	PLK1263-ND	4.03	169.13	318.75	1951.50	ELF-18D424
	5.6	1.4	PLK1269-ND◆	4.03	169.13	318.75	1951.50	ELF-18D424F
	3.9	1.5	PLK1264-ND	4.03	169.13	318.75	1951.50	ELF-18D433
	3.3	1.8	PLK1265-ND◆	4.03	169.13	318.75	1951.50	ELF-18D414

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
400	2.7	2.0	PLK1270-ND◆	4.03	169.13	318.75	1951.50	ELF-18D434F
	2.2	2.0	PLK1027-ND◆	4.03	169.13	318.75	1951.50	ELF-18D416
	2.2	2.2	PLK1030-ND	4.03	169.13	318.75	1951.50	ELF-18D435F
	1.5	2.4	PLK1026-ND◆	4.03	169.13	318.75	1951.50	ELF-18D419
	1.2	3.0	PLK1271-ND	4.03	169.13	318.75	1951.50	ELF-18D420F
	0.56	3.4	PLK1272-ND◆	4.03	169.13	318.75	1951.50	ELF-18D441F
600	100.0	0.4	PLK1273-ND◆	5.09	213.59	402.54	2464.50	ELF-18D620
	68.0	0.5	PLK1274-ND◆	5.09	213.59	402.54	2464.50	ELF-18D607
	47.0	0.7	PLK1287-ND	5.09	213.59	402.54	2464.50	ELF-18D605F
	39.0	0.7	PLK1275-ND	5.09	213.59	402.54	2464.50	ELF-18D615
	33.0	0.8	PLK1036-ND	5.09	213.59	402.54	2464.50	ELF-18D624F
	27.0	0.8	PLK1276-ND	5.09	213.59	402.54	2464.50	ELF-18D618
	27.0	1.0	PLK1288-ND	5.09	213.59	402.54	2464.50	ELF-18D618F
	22.0	1.0	PLK1034-ND◆	5.09	213.59	402.54	2464.50	ELF-18D612
	18.0	1.0	PLK1277-ND	5.09	213.59	402.54	2464.50	ELF-18D606
	18.0	1.2	PLK1289-ND	5.09	213.59	402.54	2464.50	ELF-18D606F
	12.0	1.3	PLK1278-ND	5.09	213.59	402.54	2464.50	ELF-18D609
	12.0	1.6	PLK1290-ND◆	5.09	213.59	402.54	2464.50	ELF-18D609F
	10.0	1.4	PLK1279-ND	5.09	213.59	402.54	2464.50	ELF-18D616
	10.0	1.6	PLK1291-ND	5.09	213.59	402.54	2464.50	ELF-18D601F
	8.2	1.7	PLK1280-ND	5.09	213.59	402.54	2464.50	ELF-18D602
	5.6	1.8	PLK1281-ND	5.09	213.59	402.54	2464.50	ELF-18D603
	5.6	2.1	PLK1292-ND	5.09	213.59	402.54	2464.50	ELF-18D603F
	4.7	2.0	PLK1282-ND◆	5.09	213.59	402.54	2464.50	ELF-18D604
	4.7	2.5	PLK1293-ND	5.09	213.59	402.54	2464.50	ELF-18D604F
	3.9	2.2	PLK1283-ND	5.09	213.59	402.54	2464.50	ELF-18D613
	3.3	2.5	PLK1033-ND	5.09	213.59	402.54	2464.50	ELF-18D605
	2.7	2.6	PLK1284-ND	5.09	213.59	402.54	2464.50	ELF-18D611
	2.2	2.8	PLK1035-ND	5.09	213.59	402.54	2464.50	ELF-18D617F
	1.8	2.8	PLK1285-ND	5.09	213.59	402.54	2464.50	ELF-18D614
	1.5	3.1	PLK1286-ND	5.09	213.59	402.54	2464.50	ELF-18D610
	1.0	3.4	PLK1032-ND	5.09	213.59	402.54	2464.50	ELF-18D608
			F Series					
23F	50.0	0.3	PLK1039-ND	8.72	365.69	689.19	4219.50	ELF-23F003A
	20.0	0.5	PLK1041-ND	8.72	365.69	689.19	4219.50	ELF-23F005A
	14.0	0.6	PLK1042-ND	8.72	365.69	689.19	4219.50	ELF-23F006A
	8.0	0.8	PLK1044-ND	8.72	365.69	689.19	4219.50	ELF-23F008A
	6.0	0.9	PLK1045-ND	8.72	365.69	689.19	4219.50	ELF-23F009A
	5.0	1.0	PLK1046-ND◆	8.72	365.69	689.19	4219.50	ELF-23F010A
	3.5	1.2	PLK1047-ND	8.72	365.69	689.19	4219.50	ELF-23F012A
	2.0	1.6	PLK1048-ND	8.72	365.69	689.19	4219.50	ELF-23F016A
	1.5	1.8	PLK1049-ND	8.72	365.69	689.19	4219.50	ELF-23F018A
	1.2	2.0	PLK1050-ND	8.72	365.69	689.19	4219.50	ELF-23F020A
	1.0	2.2	PLK1051-ND	8.72	365.69	689.19	4219.50	ELF-23F022A
25F	20.0	0.7	PLK1053-ND	10.17	426.66	804.09	4923.00	ELF-25F107A
	12.0	0.9	PLK1055-ND	10.17	426.66	804.09	4923.00	ELF-25F109A
	10.0	1.0	PLK1056-ND◆	10.17	426.66	804.09	4923.00	ELF-25F110A
	7.0	1.2	PLK1057-ND	10.17	426.66	804.09	4923.00	ELF-25F112A
	5.0	1.4	PLK1058-ND	10.17	426.66	804.09	4923.00	ELF-25F114A
	4.0	1.6	PLK1059-ND	10.17	426.66	804.09	4923.00	ELF-25F116A
	3.0	1.8	PLK1060-ND	10.17	426.66	804.09	4923.00	ELF-25F118A
	1.6	2.2	PLK1062-ND	10.17	426.66	804.09	4923.00	ELF-25F022A
	1.3	2.5	PLK1063-ND	10.17	426.66	804.09	4923.00	ELF-25F025A
			M Series					
11M	30.0	0.1	PLK1136-ND◆	2.63	110.10	207.49	1270.35	ELF-11M010E
	12.0	0.2	PLK1137-ND◆	2.63	110.10	207.49	1270.35	ELF-11M020E
	6.0	0.3	PLK1138-ND◆	2.63	110.10	207.49	1270.35	ELF-11M030E
	3.5	0.4	PLK1139-ND◆	2.63	110.10	207.49	1270.35	ELF-11M040E
	2.5	0.5	PLK1140-ND	2.63	110.10	207.49	1270.35	ELF-11M050E
	1.5	0.6	PLK1141-ND◆	2.63	110.10	207.49	1270.35	ELF-11M060E
	1.0	0.7	PLK1142-ND	2.63	110.10	207.49	1270.35	ELF-11M070E
	0.8	0.8	PLK1143-ND	2.63	110.10	207.49	1270.35	ELF-11M080E
	0.7	0.9	PLK1144-ND◆	2.63	110.10	207.49	1270.35	ELF-11M090E
	0.5	1.0	PLK1145-ND◆	2.63	110.10	207.49	1270.35	ELF-11M100E
14M	30.0	0.1	PLK1146-ND◆	2.89	121.11	228.24	1397.40	ELF-14M010E
	12.0	0.2	PLK1147-ND◆	2.89	121.11	228.24	1397.40	ELF-14M020E
	6.0	0.3	PLK1148-ND◆	2.89	121.11	228.24	1397.40	ELF-14M030E
	3.5	0.4	PLK1149-ND◆	2.89	121.11	228.24	1397.40	ELF-14M040E
	2.5	0.5	PLK1150-ND◆	2.89	121.11	228.24	1397.40	ELF-14M050E
	1.5	0.6	PLK1151-ND◆	2.89	121.11	228.24	1397.40	ELF-14M060E
	1.0	0.7	PLK1152-ND◆	2.89	121.11	228.24	1397.40	ELF-14M070E
	0.8	0.8	PLK1153-ND◆	2.89	121.11	228.24	1397.40	ELF-14M080E
	0.7	0.9	PLK1154-ND◆	2.89	121.11	228.24	1397.40	ELF-14M090E
	0.5	1.0	PLK1155-ND◆	2.89	121.11	228.24	1397.40	ELF-14M100E
16M	28.0	0.2	PLK1156-ND◆	1.60	66.98	126.22	772.80	ELF-16M020A
	20.0	0.3	PLK1157-ND◆	1.60	66.98	126.22	772.80	ELF-16M030A
	15.0	0.4	PLK1158-ND◆	1.60	66.98	126.22	772.80	ELF-16M040A
	8.0	0.5	PLK1159-ND◆	1.60	66.98	126.22	772.80	ELF-16M050A
	7.0	0.6	PLK1160-ND◆	1.60	66.98	126.22	772.80	ELF-16M060A
	5.0	0.7	PLK1161-ND◆	1.60	66.98	126.22	772.80	ELF-16M070A
	3.5	0.8	PLK1162-ND	1.60	66.98	126.22	772.80	ELF-16M080A
	2.0	1.0	PLK1163-ND	1.60	66.98	126.22	772.80	ELF-16M100A
	1.0	1.3	PLK1164-ND	1.60	66.98	126.22	772.80	ELF-16M130A
	0.8	1.5	PLK1165-ND	1.60	66.98	126.22	772.80	ELF-16M150A
	0.6	1.7	PLK1166-ND	1.60	66.98	126.22	772.80	ELF-16M170A
	0.5	2.0	PLK1167-ND◆	1.60	66.98	126.22	772.80	ELF-16M200A

◆ ***RoHS Compliant***

(Continued)

Panasonic Line Filters *(Cont.)*

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
N Series								
15N	104.0	0.2	PLK1064-ND◆	2.15	89.96	169.54	1038.00	ELF-15N002A
	43.0	0.3	PLK1065-ND◆	2.15	89.96	169.54	1038.00	ELF-15N003A
	26.0	0.4	PLK1066-ND	2.15	89.96	169.54	1038.00	ELF-15N004A
	19.0	0.5	PLK1067-ND◆	2.15	89.96	169.54	1038.00	ELF-15N005A
	12.0	0.6	PLK1068-ND◆	2.15	89.96	169.54	1038.00	ELF-15N006A
	10.0	0.7	PLK1069-ND◆	2.15	89.96	169.54	1038.00	ELF-15N007A
	6.8	0.8	PLK1070-ND◆	2.15	89.96	169.54	1038.00	ELF-15N008A
	5.3	1.0	PLK1071-ND◆	2.15	89.96	169.54	1038.00	ELF-15N010A
	4.0	1.1	PLK1072-ND◆	2.15	89.96	169.54	1038.00	ELF-15N011A
	2.7	1.3	PLK1073-ND	2.15	89.96	169.54	1038.00	ELF-15N013A
	2.1	1.5	PLK1074-ND◆	2.15	89.96	169.54	1038.00	ELF-15N015A
	1.7	1.7	PLK1075-ND◆	2.15	89.96	169.54	1038.00	ELF-15N017A
	1.0	2.2	PLK1076-ND◆	2.15	89.96	169.54	1038.00	ELF-15N022A
	0.6	3.0	PLK1077-ND◆	2.15	89.96	169.54	1038.00	ELF-15N030A
18N	80.0	0.4	PLK1078-ND	4.14	173.55	327.08	2002.50	ELF-18N004A
	50.0	0.5	PLK1079-ND◆	4.14	173.55	327.08	2002.50	ELF-18N005A
	35.0	0.6	PLK1080-ND◆	4.14	173.55	327.08	2002.50	ELF-18N006A
	20.0	0.8	PLK1081-ND◆	4.14	173.55	327.08	2002.50	ELF-18N008A
	15.0	1.0	PLK1082-ND◆	4.14	173.55	327.08	2002.50	ELF-18N010A
	9.5	1.2	PLK1083-ND◆	4.14	173.55	327.08	2002.50	ELF-18N012A
	6.0	1.6	PLK1084-ND◆	4.14	173.55	327.08	2002.50	ELF-18N016A
	4.2	2.0	PLK1085-ND◆	4.14	173.55	327.08	2002.50	ELF-18N020A
	2.4	2.5	PLK1086-ND◆	4.14	173.55	327.08	2002.50	ELF-18N025A
	1.4	3.2	PLK1087-ND◆	4.14	173.55	327.08	2002.50	ELF-18N032A
20N	69.0	0.6	PLK1088-ND	4.52	189.67	357.46	2188.50	ELF-20N006A
	43.0	0.8	PLK1089-ND◆	4.52	189.67	357.46	2188.50	ELF-20N008A
	28.0	1.0	PLK1090-ND	4.52	189.67	357.46	2188.50	ELF-20N010A
	18.0	1.3	PLK1091-ND◆	4.52	189.67	357.46	2188.50	ELF-20N013A
	14.0	1.5	PLK1092-ND	4.52	189.67	357.46	2188.50	ELF-20N015A
	12.0	1.6	PLK1093-ND◆	4.52	189.67	357.46	2188.50	ELF-20N016A
	7.5	1.8	PLK1094-ND	4.52	189.67	357.46	2188.50	ELF-20N018A
	7.0	2.0	PLK1095-ND◆	4.52	189.67	357.46	2188.50	ELF-20N020A
	6.2	2.2	PLK1096-ND	4.52	189.67	357.46	2188.50	ELF-20N022A
	4.9	2.4	PLK1097-ND	4.52	189.67	357.46	2188.50	ELF-20N024A
	4.7	2.7	PLK1098-ND◆	4.52	189.67	357.46	2188.50	ELF-20N027A
	2.9	3.0	PLK1099-ND◆	4.52	189.67	357.46	2188.50	ELF-20N030A
	2.0	3.5	PLK1100-ND	4.52	189.67	357.46	2188.50	ELF-20N035A
	1.5	4.0	PLK1101-ND◆	4.52	189.67	357.46	2188.50	ELF-20N040A

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	50	100	1,000	Panasonic Part No.
High N Series								
17N	142.0	0.2	PLK1168-ND◆	1.26	52.91	99.72	610.50	ELF-17N002A
	60.0	0.3	PLK1169-ND◆	1.26	52.91	99.72	610.50	ELF-17N003A
	35.0	0.4	PLK1170-ND◆	1.26	52.91	99.72	610.50	ELF-17N004A
	26.0	0.5	PLK1171-ND◆	1.26	52.91	99.72	610.50	ELF-17N005A
	16.0	0.6	PLK1172-ND◆	1.26	52.91	99.72	610.50	ELF-17N006A
	14.0	0.7	PLK1173-ND◆	1.26	52.91	99.72	610.50	ELF-17N007A
	9.2	0.8	PLK1174-ND	1.26	52.91	99.72	610.50	ELF-17N008A
	7.2	1.0	PLK1175-ND◆	1.26	52.91	99.72	610.50	ELF-17N010A
	5.4	1.1	PLK1176-ND◆	1.26	52.91	99.72	610.50	ELF-17N011A
	3.7	1.3	PLK1177-ND	1.26	52.91	99.72	610.50	ELF-17N013A
	2.9	1.5	PLK1178-ND◆	1.26	52.91	99.72	610.50	ELF-17N015A
	2.3	1.7	PLK1179-ND◆	1.26	52.91	99.72	610.50	ELF-17N017A
	1.3	2.2	PLK1180-ND	1.26	52.91	99.72	610.50	ELF-17N022A
	0.8	3.0	PLK1181-ND◆	1.26	52.91	99.72	610.50	ELF-17N030A
19N	99.0	0.4	PLK1182-ND	2.28	95.55	180.08	1102.50	ELF-19N004A
	62.0	0.5	PLK1183-ND	2.28	95.55	180.08	1102.50	ELF-19N005A
	43.0	0.6	PLK1184-ND◆	2.28	95.55	180.08	1102.50	ELF-19N006A
	25.0	0.8	PLK1185-ND	2.28	95.55	180.08	1102.50	ELF-19N008A
	19.0	1.0	PLK1186-ND◆	2.28	95.55	180.08	1102.50	ELF-19N010A
	12.0	1.2	PLK1187-ND◆	2.28	95.55	180.08	1102.50	ELF-19N012A
	7.4	1.6	PLK1188-ND	2.28	95.55	180.08	1102.50	ELF-19N016A
	5.1	2.0	PLK1189-ND◆	2.28	95.55	180.08	1102.50	ELF-19N020A
	3.0	2.5	PLK1190-ND◆	2.28	95.55	180.08	1102.50	ELF-19N025A
	1.7	3.2	PLK1191-ND◆	2.28	95.55	180.08	1102.50	ELF-19N032A
21N	87.0	0.6	PLK1192-ND◆	2.93	122.88	231.57	1417.80	ELF-21N006A
	54.0	0.8	PLK1193-ND◆	2.93	122.88	231.57	1417.80	ELF-21N008A
	36.0	1.0	PLK1194-ND◆	2.93	122.88	231.57	1417.80	ELF-21N010A
	22.0	1.3	PLK1195-ND	2.93	122.88	231.57	1417.80	ELF-21N013A
	18.0	1.5	PLK1196-ND◆	2.93	122.88	231.57	1417.80	ELF-21N015A
	15.0	1.6	PLK1197-ND	2.93	122.88	231.57	1417.80	ELF-21N016A
	9.4	1.8	PLK1198-ND◆	2.93	122.88	231.57	1417.80	ELF-21N018A
	8.7	2.0	PLK1199-ND◆	2.93	122.88	231.57	1417.80	ELF-21N020A
	7.8	2.2	PLK1200-ND	2.93	122.88	231.57	1417.80	ELF-21N022A
	6.1	2.4	PLK1201-ND	2.93	122.88	231.57	1417.80	ELF-21N024A
	5.8	2.7	PLK1202-ND◆	2.93	122.88	231.57	1417.80	ELF-21N027A
	3.7	3.0	PLK1203-ND	2.93	122.88	231.57	1417.80	ELF-21N030A
	2.5	3.5	PLK1204-ND	2.93	122.88	231.57	1417.80	ELF-21N035A
	1.9	4.0	PLK1205-ND◆	2.93	122.88	231.57	1417.80	ELF-21N040A

◆ *RoHS Compliant*

Ring Core Ferrites TT Series

Applications: General purpose noise reduction, such as for power circuits, motor areas and TV circuits.
Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig. 1

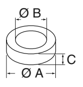

Fig. 2

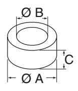

Fig. 3

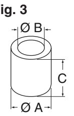

Fig.	Dimensions – mm A	B	C	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	13.0	7.1	6.3	30	40	55	P12715-ND	.24	.20	.17	KR16TT130706
	16.0	12.0	8.0	20	30	45	P12721-ND	.24	.20	.17	KR16TT161208
	18.0	10.0	6.0	30	40	55	P12722-ND	.30	.24	.21	KR16TT181006
	22.0	14.0	6.0	25	30	48	P11380-ND	.30	.24	.21	KR16TT221406
	22.0	14.0	10.0	35	45	60	P11381-ND	.38	.31	.27	KR16TT221410
	25.0	15.0	8.0	35	44	64	P11382-ND	.52	.42	.37	KR16TT251508
	28.5	18.0	7.5	30	40	60	P11385-ND	.44	.36	.31	KR16TT281807
2	9.0	6.0	10.0	30	38	56	P12710-ND	.24	.20	.17	KR16TT090610
	9.5	4.9	10.4	40	50	70	P12711-ND	.28	.23	.20	KR16TT100510
	16.0	9.0	18.0	80	95	110	P12719-ND	.46	.37	.33	KR16TT160918
3	14.3	6.4	20.0	120	140	140	P12716-ND	.44	.36	.31	KR16TT140620
	14.3	6.4	28.6	200	220	175	P12717-ND	.58	.47	.41	KR16TT140629
	16.0	9.0	28.0	120	140	140	P12720-ND	.68	.55	.48	KR16TT160928
	18.5	10.0	29.0	130	150	150	P11377-ND	.74	.60	.52	KR16TT191029

Flat Cable Core Ferrites FP Series

Applications: Noise reduction for flat cables
Measuring Wire: • 1 – 1UEW 0.5, 50mm, 1turn • 2 – UL1007 AWG26, 65mm, 1turn • 3 – 1UEW 0.5, 100mm, 1 turn

Fig. 1

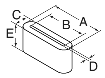

Fig. 2

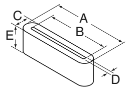

Fig. 3

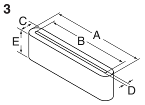

Fig.	Measuring Wire	Dimensions – mm A	B	C	D	E	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	1	22.5	17.5	6.0	1.0	10.3	32	40	56	P11387-ND	.40	.32	.28	KR16FP220610
2	3	33.5	27.0	6.5	1.3	10.0	28	38	73	P11388-ND	.42	.34	.30	KR16FP340710
3	3	45.2	40.0	6.5	1.3	12.0	28	40	83	P11392-ND	.56	.45	.40	KR16FP450712

Ring Core with Casing Ferrites

TA and TB Series

Applications: Low frequency noise reduction. TB Series has Fixed Hole.
Material of Case: PP
Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig. 1

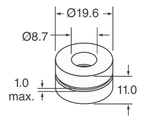

Fig. 2

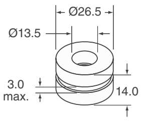

Fig. 3

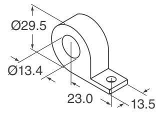

Fig.	Case Color	Typical Impedance Ω / MHz			Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
TA Series									
1	White	35/30	50/50	80/100	P11398-ND	.56	.45	.40	KR16TA191010W
2	Black	20/1	18/5	14/10	P11400-ND	.88	.71	.62	KR50TA251512B1
TB Series									
3	Black	35/30	50/50	80/100	P11401-ND	1.14	.92	.80	KR16TB251512B1

Snap-On Core Ferrites

KRCB Series

Applications: Noise reduction on AC power cable for PCs and other electronic devices. Their "snap-on" construction allows for easy installation at any point in the production cycle.

Material of Case: Nylon 66
Material of Core: KR16
Measuring Wire: UL1015 AWG #14, 100mm, 1turn

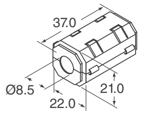

Case Color	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
Black	110	140	140	P11395-ND	1.26	1.01	.89	KRCBC160928B

Qualtek Electronics Corporation

AC Line Cords

- **Temperature Rating:** 60°C
- **Volt Rating:** 125VAC
- **Small Appliance Line Cord:** NEMA 1-15P Plug
- **Male Plug Power Cord:** NEMA 5-15P Plug
- **Detachable Power Cord:** NEMA 5-15P Plug, IEC 320 Connector

SPT-1: All thermoplastic, parallel-jacketed, with or without third conductor for grounding purposes only. Light duty cord for pendant or portable use in damp locations. 300V

SPT-2: Thermoplastic, PVC jacket, 16-18AWG, 2 or 3 Conductors, 300V

SVT: Two- or three-conductor, all plastic construction with or without third conductor for grounding purposes only. 300V, 60° C

SJT: Junior hard service thermoplastic or rubber-insulated conductors with overall thermoplastic jacket. 300V, 60°C ~ 105°C

H05VV-F: Unshielded, CEC, 250V, 70°C

Fig. 1

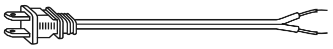

Fig. 2

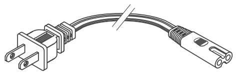

Fig. 3

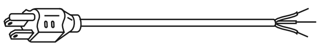

Fig. 4

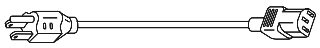

Fig. 5

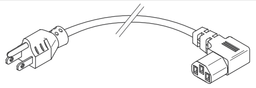

Fig. 6

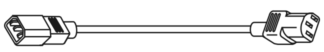

Fig. 7

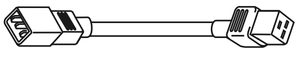

Fig. 8

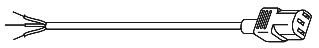

Fig. 9

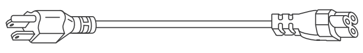

Fig. 10

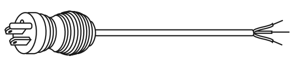

Fig. 11

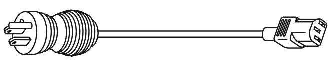

Fig. 12

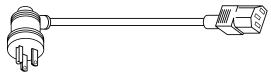

Fig. 13

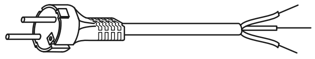

Fig. 14

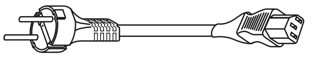

Fig. 15

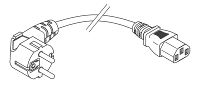

Fig. 16

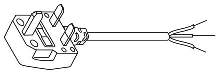

Fig. 17

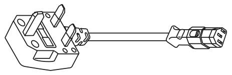

Fig. 18

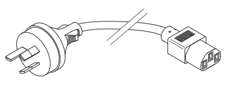

Fig. 19

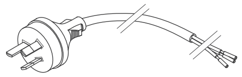

Fig. 20

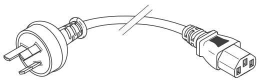

Fig. 21

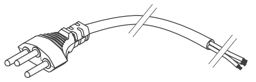

Fig. 22

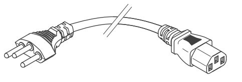

Fig. 23

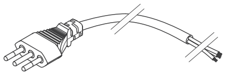

Fig. 24

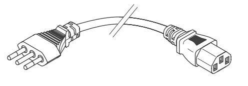

Fig. 25

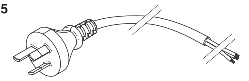

Fig. 26

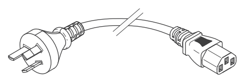

Fig. 27

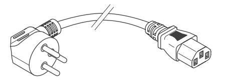

Fig. 28

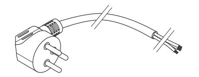

Fig.	Description	Color Code†	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each 1	10	25	50	Qualtek Part No.
North American Power Cords													
Small Appliance Line Cords													
1	Polarized Plug, UL Listed, cUL	—	6'0" (1.83)	Brown/Brown	18/2	10	SPT-1	Q100-ND	1.69	1.55	1.30	1.19	221001-03
	Polarized Plug, UL Listed, cUL	—	6'0" (1.83)	White/White	18/2	10	SPT-1	Q101-ND	1.86	1.70	1.43	1.31	221001-08
	Polarized Plug, UL Listed, cUL	—	6'0" (1.83)	Black/Black	18/2	10	SPT-1	Q114-ND	1.49	1.37	1.14	1.05	221001-01
	Polarized Plug, UL Listed, cUL	—	9'0" (2.74)	Black/Black	18/2	10	SPT-1	Q121-ND	2.21	2.03	1.70	1.56	221002-01
2	UL Listed, cUL	—	6'0" (1.83)	Black/Black	18/2	7	SPT-2	Q348-ND‡	1.97	1.81	1.51	1.39	223020-01
	UL Listed, cUL	—	8'0" (2.44)	Black/Black	18/2	7	SPT-2	Q349-ND‡	2.53	2.32	1.94	1.78	223021-01
	Polarized Plug and Connector,	—	6'0" (1.83)	Black/Black	18/2	7	SPT-2	Q536-ND‡ ***NEW!***	2.89	2.65	2.22	2.04	223082-01
	UL Listed, cUL	—	8'0" (2.44)	Black/Black	18/2	7	SPT-2	Q537-ND‡ ***NEW!***	3.05	2.79	2.34	2.14	223083-01
Male Plug Power Cords													
3	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SVT	Q106-ND	3.09	2.84	2.38	2.18	311007-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	18/3	10	SVT	Q107-ND	4.58	4.19	3.51	3.22	311010-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SJT	Q108-ND	3.37	3.09	2.59	2.37	311013-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	18/3	10	SJT	Q109-ND	4.42	4.05	3.39	3.11	311016-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	16/3	13	SJT	Q110-ND	4.62	4.23	3.55	3.25	311019-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	16/3	13	SJT	Q111-ND	6.55	6.00	5.02	4.60	311022-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	14/3	15	SJT	Q112-ND	5.75	5.26	4.41	4.04	311024-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	14/3	15	SJT	Q113-ND	8.64	7.91	6.62	6.07	311027-01
	UL Listed, cUL	North American	8'0" (2.44)	Gray/Gray	18/3	10	SVT	Q122-ND	3.54	3.24	2.71	2.49	211012-06
	UL Listed, cUL	North American	8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q123-ND	4.38	4.01	3.36	3.08	211018-06
	UL Listed, CSA Certified	CEE	12'0" (3.66)	Black/Black	18/3	10	SJT	Q538-ND ***NEW!***	6.71	6.14	5.15	4.72	311275-01
	UL Listed, CSA Certified	CEE	15'0" (4.57)	Black/Black	18/3	10	SJT	Q539-ND ***NEW!***	7.79	7.14	5.98	5.48	311276-01
Detachable Power Cords													
4	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SJT	Q102-ND	3.82	3.50	2.93	2.69	312007-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	18/3	10	SJT	Q103-ND	5.02	4.60	3.85	3.53	312010-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	16/3	13	SJT	Q115-ND	4.94	4.53	3.79	3.47	312011-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	16/3	13	SJT	Q116-ND	6.59	6.03	5.05	4.63	312014-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	16/3	13	SJT	Q120-ND§	10.77	9.86	8.25	7.57	312040-01
	UL Listed, cUL	CEE	7'6" (2.29)	Black/Black	18/3	10	SVT	Q125-ND	4.06	3.72	3.11	2.85	312003-01
	UL Listed, cUL	CEE	7'6" (2.29)	Black/Black	18/3	10	SVT	Q126-ND▲	4.38	4.01	3.36	3.08	312021-01
	UL Listed, cUL	CEE	7'6" (2.29)	Black/Black	18/3	10	SJT	Q352-ND	4.34	3.98	3.33	3.05	312008-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	14/3	15	SJT	Q353-ND	9.16	8.39	7.02	6.44	312019-01
	UL Listed, cUL	North American	7'6" (2.29)	Black/Black	16/3	13	SJT	Q124-ND	5.55	5.08	4.25	3.90	212013-01
	UL Listed, cUL	North American	7'6" (2.29)	Black/Black	18/3	10	SVT	Q347-ND	4.06	3.72	3.11	2.85	212004-01
	UL Listed, CSA Certified	CEE	12'0" (3.66)	Black/Black	18/3	10	SJT	Q540-ND ***NEW!***	7.35	6.73	5.64	5.17	312126-01
	UL Listed, CSA Certified	CEE	15'0" (4.57)	Black/Black	18/3	10	SJT	Q541-ND ***NEW!***	8.40	7.69	6.44	5.90	312127-01

† ***Note:*** **CEE Color Code:** Brown/Blue/Green-Yellow; **North American Color Code:** Black/White/Green ‡ Temperature Rating: 105°C § Shielded with Mylar Foil ▲ Temperature Rating: 105°C VW-1 *(Continued)*

AC Line Cords *(Cont.)*

Fig.	Description	Color Code†	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each 1	10	25	50	Qualtek Part No.
5	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SJT	Q104-ND	4.58	4.19	3.51	3.22	313006-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	16/3	13	SJT	Q117-ND	6.11	5.59	4.68	4.29	313010-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	18/3	10	SJT	Q105-ND	5.83	5.34	4.47	4.10	313009-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	16/3	13	SJT	Q118-ND	7.39	6.77	5.67	5.20	313014-01
	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	16/3	13	SJT	Q119-ND§	9.52	8.72	7.30	6.69	313026-01
	UL Listed, cUL	CEE	7'6" (2.29)	Black/Black	18/3	10	SVT	Q354-ND	4.50	4.12	3.45	3.16	313001-01
	UL Listed, cUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SVT	Q355-ND	4.46	4.09	3.42	3.14	313003-01
	UL Listed, cUL	CEE	7'6" (2.29)	Black/Black	16/3	13	SJT	Q360-ND	6.07	5.56	4.65	4.27	313011-01
6	UL Listed, cUL	CEE	3'3" (.99)	Black/Black	18/3	10	SVT	Q127-ND	3.42	3.13	2.62	2.40	318002-01
	UL Listed, cUL	CEE	3'3" (.99)	Black/Black	18/3	10	SJT	Q128-ND	3.06	2.80	2.34	2.15	318005-01
	UL Listed, cUL	CEE	3'3" (.99)	Black/Black	16/3	13	SJT	Q356-ND	4.14	3.79	3.17	2.91	318007-01
7	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	14/3	15	SJT	Q268-ND	14.27	13.06	10.93	10.02	331010-01
8	UL Listed, cUL	CEE	9'10" (3.00)	Black/Black	18/3	10	SJT	Q129-ND	5.10	4.67	3.91	3.59	315008-01
9	UL Listed, cUL	CEE	6'0" (1.83)	Black/Black	18/3	10	SVT	Q139-ND	4.58	4.19	3.51	3.22	350049-LD01
	UL Listed, cUL	CEE	10'0" (3.50)	Black/Black	18/3	10	SVT	Q140-ND	5.99	5.48	4.59	4.21	350050-LD01
Hospital Grade Power Cords													
10	UL Listed, CSA Certified	North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q130-ND	7.31	6.70	5.61	5.14	232003-06
	UL Listed, CSA Certified	North American	10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q131-ND	7.31	6.70	5.61	5.14	232011-06
11	UL Listed, CSA Certified	North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q132-ND	6.83	6.25	5.24	4.80	233003-06
	UL Listed, CSA Certified	North American	10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q133-ND	6.83	6.25	5.24	4.80	233009-06
	UL Listed, CSA Certified	North American	8'0" (2.44)	Gray/Clear	18/3	10	SJT	Q350-ND	6.71	6.14	5.15	4.72	233002-06
	UL Listed, CSA Certified	North American	8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q351-ND	6.71	6.14	5.15	4.72	233008-06
12	UL Listed, CSA Certified	North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q263-ND	7.68	7.03	5.88	5.39	243003-06
Universal Power Cords													
Detachable Power Cords													
6	UL Listed, cUL and VDE Certified	CEE	3'3" (.99)	Black/Black	18/3	10	SJT/	Q345-ND	3.58	3.28	2.74	2.52	319002-T01
	UL Listed, cUL and VDE Certified	CEE	8'2" (2.5)	Black/Black	18/3	10 @ 250V	H05VV-F	Q136-ND	6.34	5.80	4.86	4.45	319004-T01

† ***Note:*** **CEE Color Code:** Brown/Blue/Green-Yellow; **North American Color Code:** Black/White/Green ‡ Temperature Rating: 105°C § Shielded with Mylar Foil ▲ Temperature Rating: 105°C VW-1

Fig.	Description	Length Feet (Meter)	Color	Cord Type	Conductors (MM2)	Rating Amps @ 250V	Digi-Key Part No.	Price Each 1	10	25	50	Qualtek Part No.
International Power Cords												
13	Continental Europe	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q134-ND	4.67	4.28	3.58	3.29	363012-D01
14	Continental Europe	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q135-ND	5.57	5.10	4.27	3.91	364002-D01
15	Continental Europe	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q346-ND	5.69	5.21	4.36	4.00	367003-D01
16	United Kingdom	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q137-ND	6.83	6.25	5.23	4.80	369003-E01
17	United Kingdom	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q138-ND	8.09	7.40	6.20	5.68	370001-E01
18	Australia / New Zealand	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q359-ND	4.79	4.39	3.68	3.37	374003-A01
19	Australia / New Zealand	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q406-ND	5.69	5.21	4.36	4.00	373003-A01
19	Australia / New Zealand	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q407-ND	3.78	3.46	2.90	2.66	373008-01
20	Australia / New Zealand	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q408-ND	4.47	4.09	3.43	3.14	374009-01
21	Switzerland	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q409-ND	4.63	4.24	3.55	3.26	377003-E01
21	Switzerland	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q410-ND	3.78	3.46	2.90	2.66	377009-01
22	Switzerland	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q411-ND	5.61	5.13	4.30	3.94	378001-E01
22	Switzerland	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q412-ND	4.59	4.21	3.52	3.23	378005-01
23	Italy	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q414-ND	3.78	3.46	2.90	2.66	380007-01
24	Italy	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q415-ND	5.77	5.28	4.42	4.06	381002-D01
24	Italy	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q416-ND	4.47	4.09	3.43	3.14	381003-01
25	Argentina	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q417-ND	4.84	4.43	3.71	3.40	390001-01
26	Argentina	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q418-ND	5.24	4.80	4.02	3.68	390002-01
26	Argentina	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q420-ND	4.63	4.24	3.55	3.26	390004-01
27	Israel	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q421-ND	5.77	5.28	4.42	4.06	398001-01
27	Israel	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q422-ND	5.04	4.61	3.86	3.54	398002-01
28	Israel	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q423-ND	4.96	4.54	3.80	3.48	398005-01
28	Israel	5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q424-ND	3.94	3.61	3.02	2.77	398006-01

NEW! NEMA Plugs and Receptacles

NEMA straight blade and twist-locking wiring device configurations are available in plugs and receptacles with amp ratings of 15A and 20A. Qualtek plugs and receptacles are designed for easy installation and are UL/cUL Listed with the highest regard for safety.

Features:

- **Cord Clamp:** Accepts 18/3 - 12/3 Cable
- **Number of Positions:** 3
- **Mounting Type:** Free Hanging (In-Line)
- **Termination Style:** Screw

Fig. 1

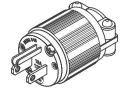

Fig. 2

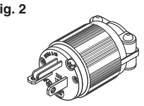

Fig. 3

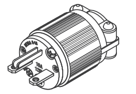

Fig. 4

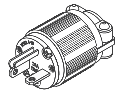

Fig. 5

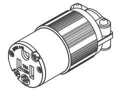

Fig. 6

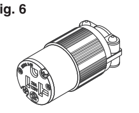

Fig. 7

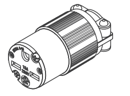

Fig. 8

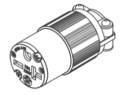

Fig. 9

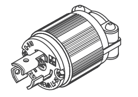

Fig. 10

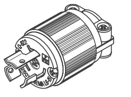

Fig.	Connector Style	Rating Amps @ 125V	Digi-Key Part No.	Price Each 1	10	25	50	Qualtek Part No.
NEMA Plugs, Straight Blade								
1	5-15	15	Q526-ND	5.38	4.93	4.13	3.78	Q-710
2	5-20	20	Q528-ND	5.38	4.93	4.13	3.78	Q-716
3	6-15	15 @ 250V	Q530-ND	5.38	4.93	4.13	3.78	Q-720
4	6-20	20 @ 250V	Q532-ND	5.38	4.93	4.13	3.78	Q-726
NEMA Receptacles, Straight Blade								
5	5-15	15	Q527-ND	6.86	6.28	5.26	4.82	Q-712
6	5-20	20	Q529-ND	6.86	6.28	5.26	4.82	Q-718
7	6-15	15 @ 250V	Q531-ND	6.86	6.28	5.26	4.82	Q-722
8	6-20	20 @ 250V	Q533-ND	6.86	6.28	5.26	4.82	Q-728
NEMA Plugs, Twist-Lock								
9	L5-15	15	Q534-ND	6.11	5.59	4.68	4.29	Q-810
10	L6-15	15 @ 250V	Q535-ND	6.11	5.59	4.68	4.29	Q-822

AC Receptacles

Fig. 1

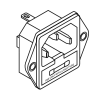

Fig. 2

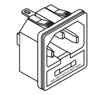

Fig. 3

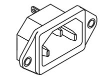

Front/Rear Mount

Fig. 4

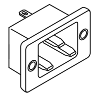

Fig. 5

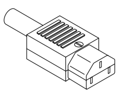

Fig. 6

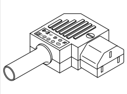

Fig. 7

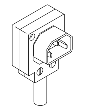

Fig. 8

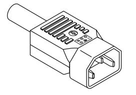

Fig. 9

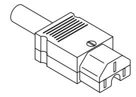

Fig. 10

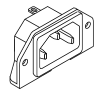

7mm Terminal Pitch

Fig. 11

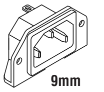

9mm Terminal Pitch

Fig. 12

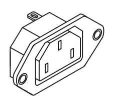

Fig. 13

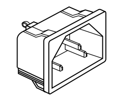

Fig. 14

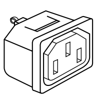

Fig. 15

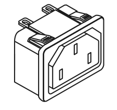

Fig. 16

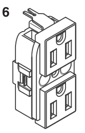

Fig. 17

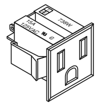

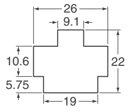

Panel Cutout

Fig. 18

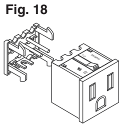

Fig. 19

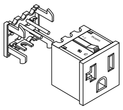

Fig. 20

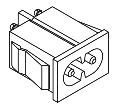

Fig. 21

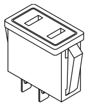

Fig. 22

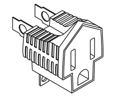

Fig. 23

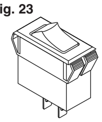

Fig. 24

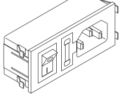

Fig. 25

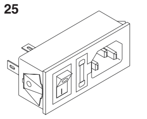

Fig. 26

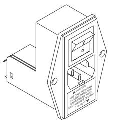

Fig. 27

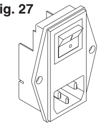

Fig. 28

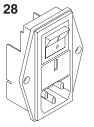

Fig. 29

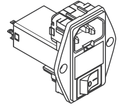

Fig. 30

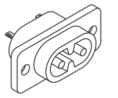

Fig. 31

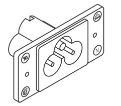

Fig. 32

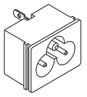

Fig. 33

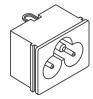

Approvals:
- **719W-00:** UL, CSA, VDE
- **738W-X2/xx, 739W-X2/xx, 740W-D/02:** UL, CSA
- **701W-X2/xx, 701W-15/xx, 703W-00/xx, 704-00/00, 705-00/00, 709-00/00, 710W-00/xx, 711-00/00, 712-00/00, 716W-15/xx, 716W-X2/xx, 723W-X2/xx, 744W-00/04:** UL, CSA, VDE
- **770W-X2/xx, 771W-X2/02, 771W-xxx/01:** UL, CSA, VDE
- **761, 762, 763, 764, 765:** UL, CSA, SEMKO
- **770W-00/01:** UL, CSA, VDE
- **736W-B-101, -102:** UL, CSA, VDE
- **738W-CX2-01:** ULR, CSA

Fig.	Description	Mount Type	Panel Cutout H x W (mm)	Contact Type	Digi-Key Part No.	Price Each 1	10	25	Qualtek Part No.
	Power Inlets with Single 5x20mm Fuseholder								
1	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	Solder Tab	Q201-ND	1.06	.98	.82	719W-00/02
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.187" (4.75mm) Fast-On	Q202-ND	1.06	.98	.82	719W-00/03
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.248" (6.35mm) Fast-On	Q203-ND	1.06	.98	.82	719W-00/04
2	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	Solder Tab	Q204-ND	1.14	1.05	.88	723W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.187" (4.75mm) Fast-On	Q205-ND	1.14	1.05	.88	723W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.248" (6.35mm) Fast-On	Q206-ND	1.14	1.05	.88	723W-X2/04
	AC Power Inlets								
3	AC Receptacle, Straight, Male (front or rear mt.)	Screw	19.8 x 27.4 frt. or 22.8 x 30.0 rear mount	Solder Tab	Q210-ND	.70	.64	.54	703W-00/02
	AC Receptacle, Straight, Male (front or rear mt.)	Screw		.187" (4.75mm) Fast-On	Q211-ND	.70	.64	.54	703W-00/03
	AC Receptacle, Straight, Male (front or rear mt.)	Screw		.248" (6.35mm) Fast-On	Q212-ND	.70	.64	.54	703W-00/04
4	Power Receptacle	Screw	24.5 x 32.5	.248" (6.3mm) Quick Connect	Q235-ND	.78	.71	.60	744W-00/04
	AC Power Plug Assemblies								
5	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q213-ND	4.00	3.66	3.07	704-00/00
6	In-Line Plug, Right Angle, Female	Cord	—	Screw Terminals	Q214-ND	5.57	5.10	4.27	705-00/00
7	In-Line Plug, Right Angle, Male	Cord	—	Screw Terminals	Q215-ND	6.64	6.08	5.09	711-00/00
8	In-Line Plug, Straight, Male	Cord	—	Screw Terminals	Q216-ND	6.64	6.08	5.09	712-00/00
9	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q217-ND	4.42	4.05	3.39	709-00/00
	Angled Inlet PCB Mount								
10	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Round PC Terminals	Q218-ND	.74	.68	.57	703W-00/52
	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Flat PC Terminals	Q219-ND	.74	.68	.57	703W-00/53
11	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Flat PC Terminals	Q220-ND	.74	.68	.57	703W-00/54
	AC Power Inlets IEC 320								
3	AC Receptacle, Straight, Male (front or rear mt.)	Screw	19.8 x 27.4 frt. or 22.8 x 30.8 rear mount	.187" (4.75mm) Fast-On	Q335-ND	.70	.64	.54	703W-00/07
	AC Receptacle, Straight, Male (front or rear mt.)	Screw		.250" (6.35mm) Fast-On	Q336-ND	.70	.64	.54	703W-00/08
	AC Receptacle, Straight, Male (front or rear mt.)	Screw	20.0 x 28 frt. or 22.5 x 30.3 rear mount	Solder Tab	Q334-ND	.70	.64	.54	703W-00/06
12	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	Solder Tab	Q221-ND	.85	.78	.66	710W-00/01
	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	.187" (4.75mm) Fast-On	Q222-ND	.85	.78	.66	710W-00/02
	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	.248" (6.35mm) Fast-On	Q223-ND	.85	.78	.66	710W-00/03
13	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	Solder Tab	Q207-ND	.62	.57	.48	701W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	.187" (4.75mm) Fast-On	Q208-ND	.62	.57	.48	701W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	.248" (6.35mm) Fast-On	Q209-ND	.62	.57	.48	701W-X2/04
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	Solder Tab	Q256-ND	.62	.57	.48	701W-15/21
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.187" (4.7mm) Fast-On/Solder Tab	Q257-ND	.62	.57	.48	701W-15/26
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.250" (6.35mm) Fast-On	Q258-ND	.62	.57	.48	701W-15/31
14	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	Solder Tab	Q259-ND	.89	.82	.69	716W-15/05
	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	.187" (4.7mm) Fast-On/Solder Tab	Q260-ND	.89	.82	.69	716W-15/10
	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	.250" (6.35mm) Fast-On	Q261-ND	.89	.82	.69	716W-15/15
15	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	Solder Tab	Q224-ND	.66	.61	.51	716W-X2/01
	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	.187" (4.75mm) Fast-On	Q225-ND	.66	.61	.51	716W-X2/02
	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	.248" (6.35mm) Fast-On	Q226-ND	.66	.61	.51	716W-X2/03
	NEMA 5-15R Power Outlets								
16	AC Receptacle, Dual, Female	Screw Panel	(2) 28.5 x 27.5	Spring Contact	Q339-ND	1.32	1.21	1.02	740W-D/02
17	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	See Drawing	.187" (4.75mm) Fast-On	Q227-ND	.64	.59	.50	738W-X2/03
	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	See Drawing	.187" (4.75mm) Fast-On	Q337-ND	.64	.59	.50	738W-X2/01
18	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.6 x 24.6	IDC Crimp Terminals	Q228-ND	.64	.59	.49	739W-X2/03
	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q338-ND	.82	.75	.63	739W-X2/04
	NEMA 5-20P Power Outlets								
19	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q282-ND	.90	.83	.69	739W-X2/20
	Power Receptacles								
20	Power Receptacle	Screw	12.4 x 21.0	Solder Tab	Q269-ND	.47	.43	.36	770W-X2/03
	Power Receptacle	Panel	12.4 x 21.0	Right Angle, PCB Pins	Q273-ND	.47	.43	.36	770W-X2/10
	Power Receptacle	Snap-In	12.5 x 24.5	PCB Pins	Q277-ND	.66	.61	.51	771W-X2/02
21	Power Receptacle, 2 Conductors	Snap-In	12.4 x 22.1	4.8mm Tab	Q281-ND	.58	.54	.45	738W-CX2-01
	AC Adapter								
22	AC Adapter 3 Prong/2 Prong	—	—	Wall Plug	Q280-ND	.65	.60	.50	738W-E-01
	Circuit Breaker Switch								
23	Illuminated, Black Body with Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q278-ND	1.64	1.50	1.26	736W-B/101
	Non-illuminated, Black Body with Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q279-ND	1.43	1.32	1.10	736W-B/102
	Multi-Function Modules with Switch								
24	Male, Plastic Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	Solder Tab	Q300-ND	7.29	6.67	5.59	761-18/003
	Male, Plastic Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 26.9	Solder Tab	Q301-ND	10.06	9.21	7.71	761-18/004
25	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q302-ND	9.71	8.88	7.44	762-18/002
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q303-ND	15.17	13.88	11.63	762-18/003
26	Male, Plastic Housing, DPST, 5x20 or 6.3x32mm Fuseholder	Screw	58.9 x 27.5	Solder Tab	Q306-ND	7.88	7.22	6.04	763-00/001
27	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q307-ND	9.07	8.30	6.95	764-00/002
28	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q308-ND	10.46	9.57	8.01	764-00/003
29	Male, Plastic Housing, DPST	Screw	55.9 x 28.5	Solder Tab	Q340-ND	7.64	7.00	5.86	765-00/001
	Low Power Inlets								
30	Male, Thermoplastic Housing	Screw	21.0 x 12.4	Solder Tab	Q309-ND	.58	.54	.45	770W-00/01
31	Male, Thermoplastic Housing	Screw	24.5 x 12.5	Solder Tab	Q310-ND	1.06	.98	.82	771W-AX2/01
32	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q311-ND	.82	.75	.63	771W-BX2/01
33	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q312-ND	.94	.86	.72	771W-CX2/01

EMI Filters

Fig. 1

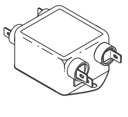

Fig. 2

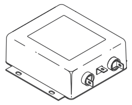

Fig. 3

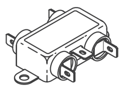

Fig. 4

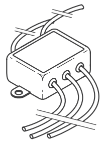

Fig. 5

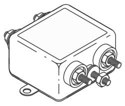

Fig. 6

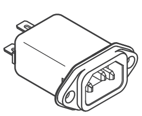

Fig. 7

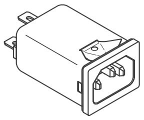

Fig. 8

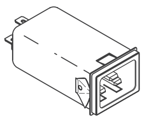

Fig. 9

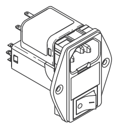

Fig. 10

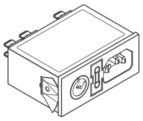

Fig. 11

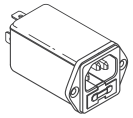

Fig. 12

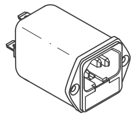

Fig. 13

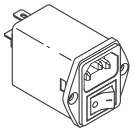

Fig. 14

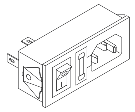

Fig. 15

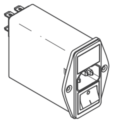

Fig. 16

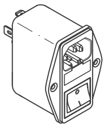

Fig. 17

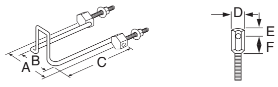

Fig.	Description	Mount Type	Panel Cutout H x W (mm)	Contact Type	Digi-Key Part No.	Price Each			Qualtek Part No.
						1	10	25	
	EMI Multi-Purpose Filters								
1	6A EMI Power Line Filter	Flange	—	Fast-On	Q450-ND	15.38	14.08	11.79	848-06/002
	10A EMI Power Line Filter	Flange	—	Fast-On	Q451-ND	15.38	14.08	11.79	848-10/003
	10A EMI Power Line Filter	Flange	—	Fast-On	Q427-ND	15.92	14.57	12.20	849-10/003
	3A EMI Power Line Filter	Flange	—	Fast-On	Q453-ND	12.02	11.00	9.21	850-03/001
	10A EMI Power Line Filter	Flange	—	Fast-On	Q455-ND	16.11	14.74	12.34	850-10/003
2	20A EMI Power Line Filter	Flange	—	Fast-On	Q452-ND	27.69	25.33	21.21	848-20/004
	20A EMI Power Line Filter	Flange	—	Fast-On	Q428-ND	27.69	25.33	21.21	849-20/004
	20A EMI Power Line Filter	Flange	—	Fast-On	Q456-ND	27.87	25.50	21.35	850-20/004
3	3A EMI Power Line Filter	Flange	—	Fast-On	Q458-ND	8.43	7.72	6.46	851-03/003
	5A EMI Power Line Filter	Flange	—	Fast-On	Q460-ND	7.82	7.16	5.99	851-05/005
	10A EMI Power Line Filter	Flange	—	Fast-On	Q462-ND	10.13	9.28	7.77	851-10/007
4	3A EMI Power Line Filter	Flange	—	Wire-Lead	Q459-ND	8.00	7.32	6.13	851-03/004
	5A EMI Power Line Filter	Flange	—	Wire-Lead	Q461-ND	8.58	7.85	6.57	851-05/006
5	20A EMI Power Line Filter	Flange	—	Screw Terminal	Q465-ND	15.74	14.41	12.06	851-20/011
6	3A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q467-ND	6.26	5.73	4.80	858-03/007
	6A EMI Power Line Filter	Panel	21.6 x 28.4	Quick Connect	Q468-ND	6.26	5.73	4.80	858-06/011
	10A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q469-ND	6.66	6.10	5.11	858-10/015
	10A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q431-ND	7.42	6.79	5.69	858-10/022
7	6A EMI Power Line Filter	Snap-In	21.9 x 28.4	Quick Connect	Q434-ND	8.22	7.52	6.30	869-06/007
	10A EMI Power Line Filter	Snap-In	21.9 x 28.4	Quick Connect	Q435-ND	8.22	7.52	6.30	869-10/008
8	20A EMI Power Line Filter	Snap-In	26.5 x 36.0	Quick Connect	Q436-ND	17.01	15.57	13.03	869-20/042
	EMI Multi-Function Module Filters								
9	3A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q443-ND	23.12	21.16	17.72	883-03/001
	10A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q447-ND	23.63	21.62	18.11	883-10/016
	10A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q448-ND	23.63	21.62	18.11	883-10/018
10	6A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q483-ND	22.80	20.86	17.47	862-06/007
	General Purpose Filters								
11	2A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q470-ND	12.88	11.79	9.87	860-02/001
	4A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q473-ND	12.88	11.79	9.87	860-04/002
	6A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q475-ND	12.88	11.79	9.87	860-06/005
12	4A EMI Power Entry Module with Double Fuse	Panel	29.0 x 33.1	Fast-On	Q474-ND	18.75	17.16	14.36	860-04/014
13	10A EMI Power Entry Module with Switch	Panel	28.5 x 39.0	Fast-On	Q478-ND	17.73	16.23	13.59	860-10/024
	EMI Multi-Function Module Filters with Switch								
14	6A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q481-ND	18.38	16.82	14.09	862-06/002
	6-4A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q482-ND	21.31	19.51	16.33	862-06/003
15	3A EMI Power Entry Module with Double Fuse	Panel	29.0 x 60.2	Fast-On	Q484-ND	29.35	26.86	22.49	864-03/001
	10A EMI Power Entry Module with Double Fuse	Panel	29.0 x 60.2	Fast-On	Q488-ND	29.35	26.86	22.49	864-10/009
	10A EMI Power Entry Module with Fuse	Panel	29.0 x 60.2	Fast-On	Q489-ND	29.35	26.86	22.49	864-10/011
16	1A EMI Power Entry Module with Double Fuse	Panel	29.5 x 60.0	Fast-On	Q490-ND	24.97	22.85	19.13	880-01/001
	1A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q491-ND	24.97	22.85	19.13	880-01/004
	3A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q493-ND	24.97	22.85	19.13	880-03/005
	6A EMI Power Entry Module with Double Fuse	Panel	29.5 x 60.0	Fast-On	Q494-ND	25.51	23.35	19.55	880-06/003
	6A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q495-ND	25.51	23.35	19.55	880-06/006

Fig.	Dimensions - Inch (mm)						Digi-Key Part No.	Price Each				Qualtek Part No.
	A	B	C	D	E	F		1	10	25	50	
	Power Plug Retainer Clips											
17	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q264-ND	2.68	2.46	2.06	1.89	730B-00/00
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.218 (5.54)	.125 (3.18)	.196 (4.98)	Q265-ND	3.88	3.56	2.98	2.73	732-00/00
	1.80 (45.72)	1.11 (28.19)	1.32 (33.53)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q266-ND	2.14	1.96	1.64	1.50	730-00/05
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.352 (8.94)	Q267-ND	3.34	3.06	2.56	2.35	731B-00/00

AC Connectors

Fig. 1

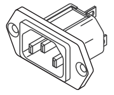

Fig. 2

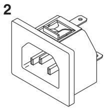

Fig. 3

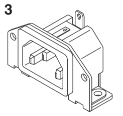

Fig. 4

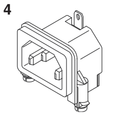

Fig. 5

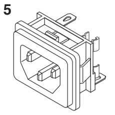

Fig. 6

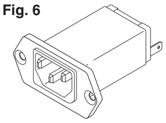

Fig. 7

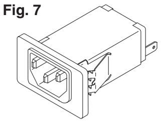

Fig. 8

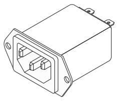

Fig. 9

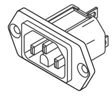

Fig. 10

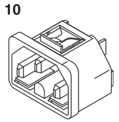

Fig. 11

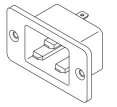

Fig. 12

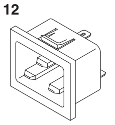

Fig. 13

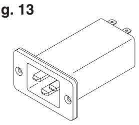

Fig. 14

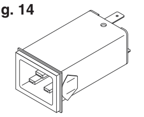

Fig. 15

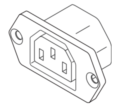

Fig. 16

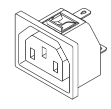

Fig. 17

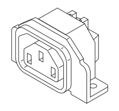

Fig. 18

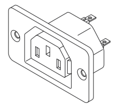

Fig. 19

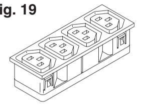

486-1026-ND:

486-1027-ND:

Fig. 20

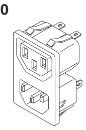

Fig. 21

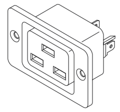

Fig. 22

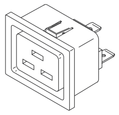

Fig. 23

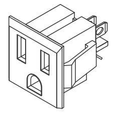

Fig. 24

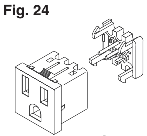

Fig. 25

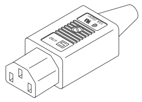

Fig. 26

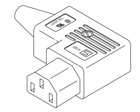

Fig. 27

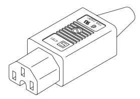

Fig. 28

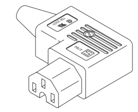

Fig. 29

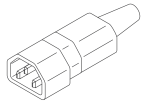

Fig. 30

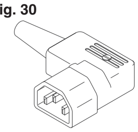

Fig. 31

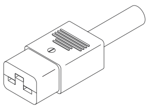

Fig. 32

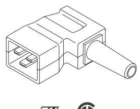

Fig. 33

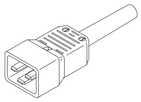

Fig. 34

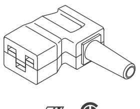

Fig. 35

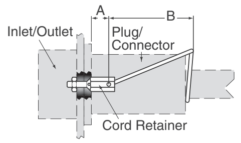

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
AC Connectors							
1	Screw-On	Solder .138”	486-1001-ND	1.44	1.15	1.04	6100.3100
	Screw-On	Q.C. .187”	486-1002-ND	1.44	1.15	1.04	6100.3200
	Screw-On	Q.C. .250”	486-1003-ND	1.44	1.15	1.04	6100.3300
	Rivet	Solder .138”	486-1341-ND	1.44	1.15	1.04	6100.9100
2	Snap-In 1.5mm	Solder .138”	486-1004-ND	1.50	1.20	1.08	6100.4115
	Snap-In 1.5mm	Q.C. .187”	486-1005-ND	1.50	1.20	1.08	6100.4215
	Snap-In 1.5mm	Q.C. .250”	486-1006-ND	1.50	1.20	1.08	6100.4315
3	Screw-On	9.05/9.7mm	486-1007-ND	1.63	1.31	1.18	GSP1.8101.1
	Screw-On	7/7.3mm	486-1130-ND§	1.63	1.31	1.18	GSP1.9103.1
	Screw-On	7/7.3mm	486-1008-ND	2.13	1.71	1.54	GSP1.9113.1
4	Screw-On PCB	9.05/9.7mm	486-1009-ND	2.72	2.18	1.96	GSP2.8101.13
	Screw-On PCB	7/7.3mm	486-1117-ND	3.37	2.70	2.43	GSP2.9113.13
5	Front Snap-In	Q.C. .187”	486-1011-ND	3.96	3.17	2.85	GSF2.1011.01
6	Screw-On	Q.C. .250”	486-1038-ND	16.99	13.60	12.24	5110.0133.1
7	Snap-In .8-3.0mm	Q.C. .250”	486-1039-NDΔ	16.99	13.60	12.24	5110.0343.1
	Snap-In .8-3.0mm	Q.C. .250”	486-1040-ND▲	16.99	13.60	12.24	5110.1043.1
8	Front or Rear Screw-On	Q.C. .250”	486-1069-ND	6.78	5.43	4.88	5120.0000.0
	Rear Screw-On	Q.C. .250”	486-1070-ND	6.78	5.43	4.88	5120.1003.0
	Rear Screw-On	Q.C. .250”	486-1071-ND	6.78	5.43	4.88	5120.1006.0
9	Screw-On	Solder .138”	486-1012-ND‡	2.27	1.82	1.64	6110.3100
	Screw-On	Q.C. .250”	486-1013-ND‡	2.27	1.82	1.64	6110.3300
10	Snap-In 1.5mm	Solder .138”	486-1014-ND‡	2.27	1.82	1.64	6110.4115
11	Screw-On	Solder .150”	486-1015-ND†	2.08	1.67	1.50	4798.9200
	Screw-On	Q.C. .250”	486-1016-ND†	2.08	1.67	1.50	4798.9000
12	Snap-In 1.5mm	Q.C. .250”	486-1018-ND†	2.08	1.67	1.50	4793.4000
13	Screw-On	Solder .250”	486-1043-ND†	30.77	24.62	22.16	C20F.0001
14	Front Snap-In	Q.C. .250”	486-1081-ND†	30.77	24.62	22.16	C20F.0111
15	Screw-On	Solder .138”	486-1020-ND	2.29	1.83	1.65	6600.3100
	Screw-On	Q.C. .250”	486-1021-ND	2.29	1.83	1.65	6600.3300
16	Snap-In 1.5mm	Solder .138”	486-1022-ND	2.21	1.77	1.59	6600.4115
	Snap-In 1.5mm	Q.C. .250”	486-1023-ND	2.21	1.77	1.59	6600.4315
17	Rear Screw-On PCB	Solder .157”	486-1343-ND	4.84	3.87	3.49	6182.0033
18	Screw-On	Q.C. .250”	486-1024-ND	3.91	3.13	2.82	4721.0000
	Screw-On	Solder .150”	486-1025-ND	3.91	3.13	2.82	4721.0300
19	Snap-In 1.5mm	Solder .150”	486-1026-ND	4.82	3.86	3.48	0909.0021
	Snap-In 1.5mm	Q.C. .187” Insulated	486-1027-ND	8.93	7.15	6.43	4752.4200

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
20	Snap-In 1.5mm	Solder/Q.C.	486-1028-ND	3.88	3.11	2.80	4300.0301
21	Screw-On	Q.C. .250”	486-1068-ND†	2.81	2.25	2.03	4797.0000
	Screw-On	Solder	486-1072-ND†	2.81	2.25	2.03	4797.3000
22	Front Snap-In	Q.C .250”	486-1105-ND†	2.81	2.25	2.03	4797.0015
23	Front Side Snap-In	Solder .138”	486-1082-ND	.98	.79	.71	4300.0701
24	Front Side Snap-In	Q.C. Sockets	486-1083-ND	1.26	1.01	.91	4300.0703

Fig.	Mounting	Maximum Wire Size	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
Power Entry Connectors							
25	Straight Entry	18 AWG	486-1048-ND	5.29	4.24	3.82	4782.0000
	Straight Entry	14 AWG	486-1107-ND	5.29	4.24	3.82	4782.0100
26	Angled Entry	18 AWG	486-1049-ND	6.35	5.08	4.58	4785.0000
27	Straight Entry	18 AWG	486-1050-ND‡	4.76	3.81	3.43	4781.0000
28	Angled Entry	18 AWG	486-1051-ND‡	5.29	4.24	3.82	4784.0000
29	Straight Entry	18 AWG	486-1052-ND	7.41	5.93	5.34	4732.0000
30	Angled Entry	18 AWG	486-1053-ND	7.94	6.35	5.72	4733.0000
31	Straight Entry	14 AWG	486-1054-ND†	8.50	6.80	6.12	4795.0000
32	Angled Entry	14 AWG	486-1108-ND†	10.24	8.20	7.38	4789.1200
33	Straight Entry	14 AWG	486-1055-ND†	9.64	7.72	6.95	4796.0000
34	Angled Entry	14 AWG	486-1109-ND†	9.02	7.22	6.50	4790.1200

‡ High Temperature (120°C) † High Current (20A) Δ 3A Rated Current ▲ 10A Rated Current
§ Without Insulation Cover

Kit◊	Design	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
Fig. 35 — Cord Retaining Strain Relief Kits								
A	Flat Head	8	45.5	486-1120-ND	4.36	3.49	3.15	4700.0001
B	Countersunk	9.5	45.5	486-1121-ND	4.36	3.49	3.15	4700.0002
C	Countersunk	8	45.5	486-1122-ND	4.36	3.49	3.15	4700.0003
D	Countersunk	4	40	486-1123-ND	4.36	3.49	3.15	4700.0004
E	Flat Head	4.5	40	486-1124-ND	4.36	3.49	3.15	4700.0005
F	Countersunk	4	45.5	486-1125-ND	4.36	3.49	3.15	4700.0006
G	Flat Head	4.5	45.5	486-1126-ND	4.36	3.49	3.15	4700.0007
H	Flat Head	5.5	45.5	486-1127-ND	4.36	3.49	3.15	4700.0008
J	Countersunk	8	37.5	486-1128-ND	4.36	3.49	3.15	4700.0009
K	Countersunk	6.6	37.5	486-1129-ND	4.36	3.49	3.15	4700.0010
L	Flat Head	5.5	37.5	486-1118-ND	4.36	3.49	3.15	4700.0011
M	Flat Head	5.5	40	486-1119-ND	4.36	3.49	3.15	4700.0012

◊ See Data Sheet on Digi-Key’s website for Kit contents.

Power Entry Modules

Note: *For Safety, EMI Certifications and additional technical information, please see Digi-Key website for data sheets.*
Figures are general description and may vary from actual form, please see Digi-Key website for data sheets.

Fig. 1

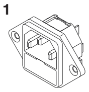

Fig. 2

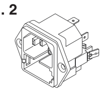

Fig. 3

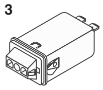

Fig. 4

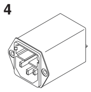

Fig. 5

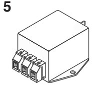

Fig. 6

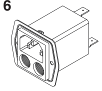

Fig. 7

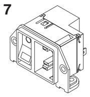

Fig. 8

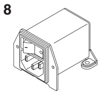

Fig. 9

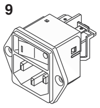

Fig. 10

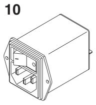

Fig. 11

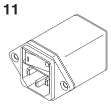

Fig. 12

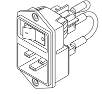

Fig. 13

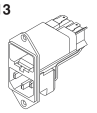

Fig. 14

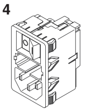

Fig. 15

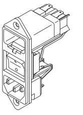

Fig. 16

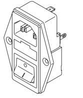

Fig. 17

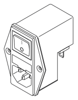

Fig. 18

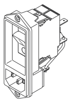

Fig. 19

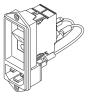

Fig. 20

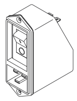

Fig. 21

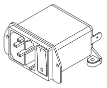

Fig. 22

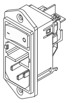

Fig.	Rated Current (A)	Terminal/ Pin Space	Digi-Key Part No.	Price Each		Schurter Part No.
				1	25	
Front Snap-In — Standard Version						
1	10	Solder .138”	486-1033-ND†◊	4.41	3.53	6200.4115
	10	Q.C. .187”	486-1087-ND†◊	4.41	3.53	6200.4215
	10	Q.C. .250”	486-1034-ND†◊	4.41	3.53	6200.4315
2	10	Q.C. .250”	486-1036-ND§	5.15	4.12	4301.0502
	10	Q.C. .250”	486-1088-ND§	27.14	21.72	4301.6005
3	3	Q.C. .250”	486-1344-ND	11.51	9.21	5003.0131.1
	6	Q.C. .250”	486-1345-ND	11.51	9.21	5003.0231.1
	10	Q.C. .250”	486-1346-ND	11.51	9.21	5003.0331.1
	15	Q.C. .250”	486-1347-ND	11.51	9.21	5003.0431.1
	3	Q.C. .250”	486-1348-ND	12.06	9.65	5003.1131.1
	6	Q.C. .250”	486-1349-ND	12.06	9.65	5003.1231.1
	10	Q.C. .250”	486-1350-ND	12.06	9.65	5003.1331.1
	15	Q.C. .250”	486-1351-ND	12.06	9.65	5003.1431.1
4	1	Q.C. .250”	486-1352-ND	8.22	6.58	5120.2000.0
	4	Q.C. .250”	486-1354-ND	8.22	6.58	5120.2003.0
	6	Q.C. .250”	486-1355-ND	8.22	6.58	5120.2004.0
	15	Q.C. .250”	486-1357-ND	8.22	6.58	5120.2007.0
	16	Q.C. .250”	486-1386-ND	17.45	13.96	5130.2000
	16	Q.C. .250”	486-1388-ND	18.32	14.66	5130.2100
	20	Q.C. .250”	486-1389-ND	18.32	14.66	5130.2101
9	10	Q.C. .187”	486-1091-ND	9.72	7.78	DC11.0001.201
10	2	Q.C. .250”	486-1079-ND	34.57	27.66	DC12.2102.101
12	20	Q.C. .250”	486-1102-ND✻	20.82	16.66	EC11.0001.201
14	10	Q.C. .187”	486-1094-ND§	28.90	23.12	KMF1.1191.11
19	20	Q.C. .250”	486-1103-ND✻	33.67	26.94	EF11.0572.0012.01
Front Snap-In — Bleed Resistor Version						
4	2	Q.C. .250”	486-1359-ND	8.22	6.58	5120.2201.0
	10	Q.C. .250”	486-1362-ND	8.22	6.58	5120.2206.0
	15	Q.C. .250”	486-1363-ND	8.22	6.58	5120.2207.0
Front Snap-In — Medical Version						
4	10	Q.C. .250”	486-1368-ND	8.22	6.58	5120.2306.0
	15	Q.C. .250”	486-1369-ND	8.22	6.58	5120.2307.0
	20	Q.C. .250”	486-1391-ND	18.84	15.08	5130.2201
	20	Q.C. .250”	486-1393-ND	19.79	15.83	5130.2301
Front Screw-On — Standard Version						
4	4	Q.C. .250”	486-1270-ND◊	29.42	23.54	5707.0401.312
	10	Q.C. .250”	486-1089-ND§	27.14	21.72	4301.5005
11	2	Q.C. .250”	486-1074-ND	34.57	27.66	DC12.2102.001
15	6	Q.C. .187”	486-1047-ND‡	55.53	44.43	CD44.1101.151
	10	Q.C. .187”	486-1115-ND‡	55.53	44.43	CD64.1101.151
16	10	Q.C. .187”	486-1084-ND	11.51	9.21	4304.6090
17	10	Q.C. .250”	486-1085-ND◊	74.14	59.32	4304.4025
18	15	Q.C. .250”	486-1098-ND	70.06	56.05	DF12.2851.9110.1
20	20	Q.C. .250”	486-1099-ND✻	76.54	61.24	EF12.0572.1110.01
22	1	Q.C. .250”	486-1287-ND†▼	27.85	22.28	DD12.1111.111
	2	Q.C. .250”	486-1290-ND†▼	27.85	22.28	DD12.2111.111
	4	Q.C. .250”	486-1293-ND†▼	27.85	22.28	DD12.4111.111
	4	Q.C. .250”	486-1294-ND§	28.35	22.68	DD12.4121.111
	6	Q.C. .250”	486-1296-ND†▼	27.85	22.28	DD12.6111.111
	6	Q.C. .250”	486-1297-ND§	28.35	22.68	DD12.6121.111
	8	Q.C. .250”	486-1299-ND†▼	27.85	22.28	DD12.8111.111
	8	Q.C. .250”	486-1300-ND§	28.35	22.68	DD12.8121.111
	10	Q.C. .250”	486-1302-ND†▼	27.85	22.28	DD12.9111.111
	10	Q.C. .250”	486-1303-ND§	28.35	22.68	DD12.9121.111
Front Screw-On — Medical Version						
6	2	Q.C. .250”	486-1266-ND◊	35.30	28.24	5707.0203.312
	6	Q.C. .250”	486-1272-ND◊	35.30	28.24	5707.0603.312
22	1	Q.C. .250”	486-1289-ND§	31.88	25.50	DD12.1321.111
	2	Q.C. .250”	486-1292-ND§	31.88	25.50	DD12.2321.111
	4	Q.C. .250”	486-1295-ND§	31.88	25.50	DD12.4321.111
	6	Q.C. .250”	486-1298-ND§	31.88	25.50	DD12.6321.111
	8	Q.C. .250”	486-1301-ND§	31.88	25.50	DD12.8321.111
	10	Q.C. .250”	486-1304-ND§	31.88	25.50	DD12.9321.111
Front Screw-On — Rivet — Standard Version						
4	20	Q.C. .250”	486-1371-ND	17.45	13.96	5130.0001
	16	Q.C. .250”	486-1372-ND	18.32	14.66	5130.0100
Front Screw-On — Rivet — Medical Version						
4	16	Q.C. .250”	486-1374-ND	18.84	15.08	5130.0200
Front Snap-In — Standard or Medical Version						
14	10	Q.C. .187”	486-1092-ND§	15.95	12.76	KM00.1105.11
	10	Q.C. .187”	486-1093-ND§	18.23	14.58	KM01.1105.11
Front or Rear Screw-On — Standard Version						
1	10	Solder .138”	486-1031-ND†◊	4.23	3.39	6200.2100
	10	Q.C .187”	486-1086-ND†◊	4.23	3.39	6200.2200
	10	Q.C. .250”	486-1032-ND†◊	4.23	3.39	6200.2300
2	10	Q.C. .187”	486-1090-ND▲	6.50	5.21	4301.0001
	10	Q.C. .250”	486-1035-ND§	5.15	4.12	4301.0501
9	15	Q.C. .187”	486-1073-ND	9.72	7.78	DC11.0001.001
12	20	Q.C. .250”	486-1101-ND✻	20.82	16.66	EC11.0001.001
18	10	Q.C. .250”	486-1097-ND	32.70	26.17	DF11.1089.0010.01
19	20	Q.C. .250”	486-1104-ND†✻	29.47	23.58	EF11.0035.0010.01
Front or Rear Screw-On — Medical Version						
15	10	Q.C. .187”	486-1096-ND★•	26.25	21.00	KG10.6101.151
Front or Rear Screw-On — Standard or Medical Version						
13	10	Q.C. .187”	486-1041-ND‡	6.58	5.27	4303.0001
15	10	Q.C. .187”	486-1046-ND‡	21.83	17.47	KD14.1101.151
	10	Q.C. .187”	486-1095-NDΔ	23.18	18.55	KD14.4101.151
22	10	Q.C. .187”	486-1275-ND†▼	11.18	8.95	DD11.0111.1110
	10	Q.C. .187”	486-1276-ND†▼	11.77	9.42	DD11.0111.1111
	10	Q.C. .187”	486-1277-ND†▼	12.87	10.30	DD11.0113.1110
	10	Q.C. .187”	486-1278-ND†▼	13.55	10.84	DD11.0113.1111
	10	Q.C. .187”	486-1279-ND†▼	12.87	10.30	DD11.0114.1110
	10	Q.C. .187”	486-1280-ND†▼	13.55	10.84	DD11.0114.1111
	10	Q.C. .187”	486-1283-ND§	20.32	16.26	DD11.0123.1110
	10	Q.C. .187”	486-1284-ND§	21.38	17.11	DD11.0123.1111
	10	Q.C. .187”	486-1285-ND§	20.32	16.26	DD11.0124.1110
	10	Q.C. .187”	486-1286-ND§	21.38	17.11	DD11.0124.1111
Front or Rear Screw-On — Rivet — Standard Version						
4	15	Q.C. .250”	486-1394-ND	82.26	65.81	5150.0011.0
Front or Rear Screw-On — Rivet — Medical Version						
4	15	Q.C. .250”	486-1398-ND	82.26	65.81	5150.0031.0
Front or Rear Screw-On — Rivet — Industrial Version						
4	15	Q.C. .250”	486-1400-ND	82.26	65.81	5150.0041.0
Rear Screw-On — Standard Version						
4	4	Q.C. .250”	486-1269-ND†◊	27.76	22.21	5707.0401.113
	4	Q.C. .250”	486-1271-ND◊	29.42	23.54	5707.0401.313
	10	Q.C. .250”	486-1075-ND§	27.14	21.72	4301.7005
	16	Q.C. .250”	486-1380-ND	18.32	14.66	5130.1100
	20	Q.C. .250”	486-1381-ND	18.32	14.66	5130.1101
7	10	PCB	486-1076-ND	12.93	10.34	DC21.0023.1111
8	10	PCB	486-1077-ND	36.12	28.90	DC22.9121.111
10	10	Q.C. .250”	486-1078-ND	36.74	29.40	DC12.5102.201
21	1	PCB	486-1312-ND§	35.70	28.56	DD22.1121.1111
	2	PCB	486-1314-ND†▼	35.07	28.06	DD22.2111.1111
	6	PCB	486-1321-ND§	35.70	28.56	DD22.6121.1111
	10	PCB	486-1324-ND§	35.70	28.56	DD22.9121.1111

(Continued)

Power Entry Modules *(Cont.)*

Fig.	Rated Current (A)	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	Price Each 25	Schurter Part No.
Rear Screw-On — Medical Version						
4	15	Q.C. .250”	486-1399-ND	82.26	65.81	5150.0031.1
	16	Q.C. .250”	486-1382-ND	18.84	15.08	5130.1200
	16	Q.C. .250”	486-1384-ND	19.79	15.83	5130.1300
	20	Q.C. .250”	486-1383-ND	18.84	15.08	5130.1201
	20	Q.C. .250”	486-1385-ND	19.79	15.83	5130.1301
6	6	Q.C. .250”	486-1273-ND◊	35.30	28.24	5707.0603.313
21	1	PCB	486-1313-ND§	40.13	32.11	DD22.1321.1111
	2	PCB	486-1316-ND§	40.13	32.11	DD22.2321.1111
	6	PCB	486-1322-ND§	40.13	32.11	DD22.6321.1111
Rear Screw-On — Industrial Version						
4	15	Q.C. .250”	486-1401-ND	82.26	65.81	5150.0041.1
Rear Screw-On — PCB — Standard or Medical Version						
7	10	Q.C. .187”	486-1305-ND†▼	14.87	11.90	DD21.0111.1111
	10	Q.C. .187”	486-1306-ND†▼	17.10	13.68	DD21.0113.1111
	10	Q.C. .187”	486-1307-ND†▼	17.10	13.68	DD21.0114.1111
	10	Q.C. .187”	486-1308-ND§	23.47	18.78	DD21.0121.1111
	10	Q.C. .187”	486-1310-ND§	26.99	21.60	DD21.0124.1111
Top Screw-On — Standard Version						
5	10	Q.C. .250”	486-1403-ND†	36.53	29.23	5500.2224
	15	Q.C. .250”	486-1404-ND†	36.53	29.23	5500.2225
	20	Q.C. .250”	486-1405-ND†	36.53	29.23	5500.2226
	30	Q.C. .250”	486-1407-ND†	48.56	38.85	5500.2228

† One-Pole

✻ High Current

◊ Comes with Fuse Drawer

§ Fuse Drawer (486-1037-ND) or (486-1274-ND) available for this part, sold separately.

‡ Fuse Drawer (486-1042-ND) available for this part, sold separately.

∆ Fuse Drawer with voltage selector (486-1111-ND) available for this part, sold separately.

▲ Fuse Drawer with voltage selector (486-1112-ND) available for this part, sold separately.

★ Voltage Selector Insert (486-1113-ND) available for this part, sold separately.

• Fuse Drawer (486-1114-ND) available for this part, sold separately.

▼ Fuse Drawer (486-1342-ND) available for this part, sold separately.

All parts are Two-Pole unless otherwise noted

Mounting Style	Fuseholder	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Schurter Part No.
Fuse Drawer for Modules						
Fingergrip	2-Pole	486-1042-ND	3.82	3.06	2.75	4303.2401
	2-Pole	486-1111-ND	6.76	5.41	4.87	4303.2014.01
	2-Pole	486-1037-ND	3.81	3.05	2.75	4301.1401
	2-Pole	486-1112-ND	6.48	5.19	4.67	4301.1014.01
Extra-Safe	1-Pole	486-1342-ND	2.22	1.78	1.60	4301.1407
	2-Pole	486-1274-ND	3.81	3.05	2.75	4301.1403
	2-Pole	486-1114-ND	6.37	5.10	4.59	4305.0001
Voltage Selector Insert		486-1113-ND	7.93	6.35	5.71	4305.0048.01

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Mfg. Part No.
Molex Mating Connectors for Schurter 5003.0 Series					
Single Row Receptacle 3 position .330 Centers	WM4211-ND	.57	.46	.38	03-12-1036
Female Terminal, 10 ~ 14AWG, Tin	WM4212-ND	.11	.09	.08	18-12-1602
Crimp Hand Tool for 10 ~ 14AWG HCS-125	WM4213-ND	287.28	—	—	63811-1100
Crimp Hand Tool for 12 ~ 14AWG HCS-125	WM17550-ND ***NEW!***	100.80	—	—	64016-0170
Tyco Electronics AMP Mating Connectors for Schurter 5003.1 Series					
Plug 3 position UL94V-2 Universal Mate-n-Lock	A1450-ND	.24	.20	.14	1-480700-0
Connector Socket, 10 ~ 12AWG, Tin	A25383-ND	—	2.64/10	—	640310-3

NEW! 3-Phase Input Filters

Features: • Cost optimized filter design with excellent price/performance ratio • Very light due to partial potting **Applications:** • Voltage rating 480VAC for world wide acceptance • Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters • Qualified for use in equipment according to IEC/EN 60950 **Approvals:** For safety ratings and certifications, please see data sheet.

Fig. 1

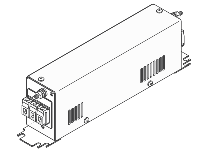

Fig. 2

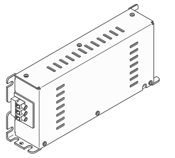

Fig.	Rated Current (A)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Schurter Part No.
1	16	486-1515-ND	140.67	112.54	101.28	FMAC-091C-1610
	25	486-1516-ND	146.36	117.09	105.39	FMAC-091C-2510
	36	486-1517-ND	151.49	121.19	109.08	FMAC-091D-3610
	50	486-1518-ND	196.00	156.80	141.12	FMAC-091D-5010
	55	486-1519-ND	206.82	165.46	148.91	FMAC-091D-5510
	80	486-1520-ND	327.48	261.99	235.79	FMAC-091T-8010
	110	486-1521-ND	472.04	377.64	339.88	FMAC-091G-H110
	150	486-1522-ND	601.81	481.45	433.30	FMAC-091G-H210
2	10	486-1523-ND	152.35	121.88	109.70	FMBC-0994-1000
	20	486-1524-ND	192.15	153.72	138.35	FMBC-0994-2000
	36	486-1526-ND	232.60	186.08	167.48	FMBC-0995-3600
	50	486-1527-ND	226.35	181.08	162.98	FMBC-0995-5000
	66	486-1529-ND	318.75	255.01	229.51	FMBC-0996-6600
	80	486-1530-ND	394.17	315.34	283.81	FMBC-0996-8000
	115	486-1532-ND	563.40	450.73	405.65	FMBC-0997-H115

schaffner Filters

energy efficiency and reliability

IEC Inlet Filters

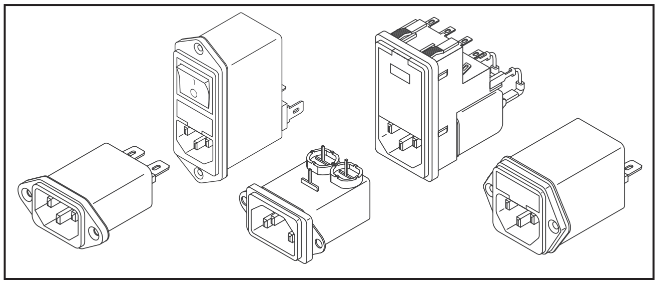

All the advantages of IEC connector, EMC/EMI filter, fuses, switch and voltage selector combined in a powerful compact all-in-one solution. Ideal for computers, monitors and office equipment like printer and copy machines.

Rated Current@ 40°C (25°C) (A)	Leakage Current@ 230VAC/50Hz (μA)	Induct-ance L1 (mH)	Digi-Key Part No.	Price Each 1	Price Each 100	Schaffner Part No.
FN 260 Series						
1 (1.2)	373	5.3	817-1087-ND	14.08	10.33	FN261-1-06
2 (2.3)	373	2.7	817-1088-ND	15.61	10.33	FN261-2-06
4 (4.6)	373	1.0	817-1089-ND	15.61	10.33	FN261-4-06
6 (6.9)	373	0.3	817-1090-ND	15.61	10.33	FN261-6-06
10 (11.5)	373	0.2	817-1091-ND	15.61	10.33	FN261-10-06
FN 280 Series						
1 (1.2)	373	7.5	817-1092-ND	27.17	18.01	FN282-1-06
2 (2.4)	373	2	817-1093-ND	27.17	18.01	FN282-2-06
4 (4.8)	373	1	817-1094-ND	27.17	18.01	FN282-4-06
6 (7.2)	373	0.45	817-1095-ND	27.37	18.10	FN282-6-06
10 (11.6)	373	0.34	817-1096-ND	27.58	23.45	FN282-10-06
1 (1.2)	2	7.5	817-1097-ND∆	27.37	18.10	FN282B-1-06
1 (1.2)	373	7.5	817-1098-ND	26.72	17.69	FN283-1-06
2 (2.4)	373	2	817-1099-ND	26.72	17.69	FN283-2-06
4 (4.8)	373	1	817-1100-ND	26.72	17.69	FN283-4-06
6 (7.2)	373	0.45	817-1101-ND	26.72	17.69	FN283-6-06
10 (11.6)	373	0.34	817-1102-ND	26.83	17.69	FN283-10-06
1 (1.2)	373	7.5	817-1103-ND	27.37	18.00	FN284-1-06
2 (2.4)	373	2	817-1104-ND	27.49	18.21	FN284-2-06
4 (4.8)	373	1	817-1105-ND	27.60	18.21	FN284-4-06
6 (7.2)	373	0.45	817-1106-ND	27.60	18.21	FN284-6-06
10 (11.6)	373	0.34	817-1107-ND	27.60	18.21	FN284-10-06
1 (1.2)	2	7.5	817-1111-ND∆	25.96	17.16	FN284B--1-06
2 (2.4)	2	2	817-1108-ND∆	26.62	17.58	FN284B-2-06
4 (4.8)	2	1	817-1109-ND∆	26.61	17.58	FN284B-4-06
6 (7.2)	2	0.45	817-1110-ND∆	27.59	18.21	FN284B-6-06
FN 370 Series						
2 (2.4)	373	0.70	817-1166-ND	32.39	21.37	FN372-2-21
2 (2.4)	373	0.70	817-1167-ND	32.39	21.37	FN372-2-22
4 (4.8)	373	0.30	817-1168-ND	32.39	21.37	FN372-4-21
6 (7.2)	373	0.18	817-1170-ND	32.39	21.37	FN372-6-21
6 (7.2)	373	0.18	817-1171-ND	32.39	21.37	FN372-6-22
FN 380 Series						
4 (4.8)	373	0.30	817-1172-ND	32.60	19.57	FN382-4-21
4 (4.8)	373	0.30	817-1173-ND	32.60	19.57	FN382-4-22

∆ Medical Version

(Continued)

E

IEC Inlet Filters *(Cont.)*

Rated Current@ 40°C (25°C) (A)	Leakage Current@ 230VAC/50Hz (µA)	Inductance L1 (mH)	Digi-Key Part No.	Price Each		Schaffner Part No.
				1	100	
6 (7.2)	373	0.18	817-1175-ND	32.60	19.57	FN382-6-21
6 (7.2)	373	0.18	817-1176-ND	32.60	19.57	FN382-6-22
4 (4.8)	2	0.80	817-1177-NDΔ	35.12	21.07	FN389B-4-21
6 (7.2)	2	0.50	817-1179-NDΔ	35.12	21.07	FN389B-6-21
FN 390 Series						
1 (1.2)	797	16	817-1059-ND	38.41	25.38	FN1393-1-05-11
1 (1.2)	797	16	817-1060-ND	38.39	25.37	FN1393-1-05-14
2.5 (3)	797	8	817-1061-ND	38.39	25.37	FN1393-2.5-05-11
6 (7.2)	797	2.5	817-1062-ND	38.39	25.37	FN1393-6-05-11
10 (12)	797	0.6	817-1058-ND	38.39	25.37	FN1393-10-05-11
1 (1.2)	797	16	817-1064-ND	38.53	34.43	FN1394-1-05-11
2.5 (3)	797	8	817-1065-ND	38.53	34.43	FN1394-2.5-05-11
6 (7.2)	797	2.5	817-1066-ND	38.53	34.43	FN1394-6-05-11
10 (12)	797	0.6	817-1063-ND	38.53	34.43	FN1394-10-05-11
10 (12)	797	0.6	817-1067-ND	38.53	34.43	FN1394-10-05-11-QN-0
FN 9222 Series (Rated Current @ 50°C (25°C), Leakage Current @ 250VAC/50Hz)						
1 (1.2)	373	12	817-1416-ND	4.98	4.73	FN9222-1-06
1 (1.2)	373	12	817-1417-ND	7.37	7.00	FN9222-1-07
3 (3.5)	373	2.5	817-1418-ND	4.98	4.73	FN9222-3-06
3 (3.5)	373	2.5	817-1419-ND	7.37	7.00	FN9222-3-07
6 (7.2)	373	0.78	817-1420-ND	4.98	4.73	FN9222-6-06
6 (7.2)	373	0.78	817-1421-ND	7.37	7.00	FN9222-6-07
10 (11.6)	373	0.225	817-1422-ND	4.98	4.73	FN9222-10-06
10 (11.6)	373	0.225	817-1423-ND	7.37	7.00	FN9222-10-07
12 (12)	373	0.11	817-1424-ND	4.98	4.73	FN9222-12-06
15 (15)	373	0.075	817-1426-ND	4.98	4.73	FN9222-15-06
1 (1.2)	2	12	817-1428-NDΔ	4.98	4.73	FN9222B-1-06
3 (3.5)	2	2.5	817-1430-NDΔ	4.98	4.73	FN9222B-3-06
3 (3.5)	2	2.5	817-1431-NDΔ	7.37	7.00	FN9222B-3-07
6 (7.2)	2	0.78	817-1432-NDΔ	4.98	4.73	FN9222B-6-06
6 (7.2)	2	0.78	817-1433-NDΔ	6.05	5.75	FN9222B-6-07
10 (11.6)	2	0.225	817-1434-NDΔ	4.98	4.73	FN9222B-10-06
10 (11.6)	2	0.225	817-1435-NDΔ	6.05	5.75	FN9222B-10-07
12 (12)	2	0.11	817-1436-NDΔ	4.98	4.73	FN9222B-12-06
1 (1.2)	373	12	817-1439-ND	4.98	4.73	FN9222R-1-06
1 (1.2)	373	12	817-1440-ND	7.37	7.00	FN9222R-1-07
3 (3.5)	373	2.5	817-1441-ND	4.98	4.73	FN9222R-3-06
3 (3.5)	373	2.5	817-1442-ND	7.37	7.00	FN9222R-3-07
6 (7.2)	373	0.78	817-1443-ND	4.98	4.73	FN9222R-6-06
6 (7.2)	373	0.78	817-1444-ND	7.37	7.00	FN9222R-6-07
10 (11.6)	373	0.225	817-1445-ND	4.98	4.73	FN9222R-10-06
10 (11.6)	373	0.225	817-1446-ND	7.37	7.00	FN9222R-10-07
12 (12)	373	0.11	817-1447-ND	4.98	4.73	FN9222R-12-06
15 (15)	373	0.075	817-1449-ND	4.98	4.73	FN9222R-15-06
16 (18.5)	373	0.54	817-1451-ND	8.16	7.76	FN9222R-16-06
20 (23)	373	0.4	817-1452-ND	8.16	7.75	FN9222R-20-06
1 (1.2)	373	12	817-1453-ND	4.98	4.73	FN9222SR-1-06
3 (3.5)	373	2.5	817-1455-ND	4.98	4.73	FN9222SR-3-06
6 (7.2)	373	0.78	817-1457-ND	4.98	4.73	FN9222SR-6-06
15 (15)	373	0.075	817-1463-ND	4.98	4.73	FN9222SR-15-06
FN 9226 Series						
1 (1.2)	373	4.65	817-1466-ND	10.00	9.51	FN9226-1-02
1 (1.2)	373	4.65	817-1467-ND	8.69	8.26	FN9226-1-06
3 (3.5)	373	1.24	817-1468-ND	10.00	9.51	FN9226-3-02
3 (3.5)	373	1.24	817-1469-ND	8.69	8.26	FN9226-3-06
6 (7.2)	373	0.52	817-1470-ND	10.26	9.75	FN9226-6-02
6 (7.2)	373	0.52	817-1471-ND	8.95	8.51	FN9226-6-06
FN 9233 Series (Rated Current @ 50°C (25°C), Leakage Current @ 250VAC/50Hz)						
1 (1.2)	373	22.5	817-1472-ND	5.35	4.82	FN9233-1-06
3 (3.5)	373	4.6	817-1473-ND	5.35	4.82	FN9233-3-06
6 (7.2)	373	1.6	817-1474-ND	5.35	4.82	FN9233-6-06
8 (10.6)	373	0.9	817-1475-ND	5.35	4.82	FN9233-8-06
10 (11.6)	373	0.45	817-1476-ND	5.35	4.82	FN9233-10-06
12 (12)	373	0.27	817-1477-ND	5.35	4.82	FN9233-12-06
15 (15)	373	0.2	817-1478-ND	5.35	4.82	FN9233-15-06
FN 9233E Series (Rated Current @ 50°C (25°C), Leakage Current @ 250VAC/50Hz)						
1 (1.2)	373	22.5	817-1479-ND	7.23	6.51	FN9233E-1-06
3 (3.5)	373	4.6	817-1480-ND	7.23	6.51	FN9233E-3-06
6 (7.2)	373	1.6	817-1481-ND	7.23	6.51	FN9233E-6-06
8 (10.6)	373	0.9	817-1482-ND	7.23	6.51	FN9233E-8-06
10 (11.6)	373	0.45	817-1483-ND	7.23	6.51	FN9233E-10-06
12 (12)	373	0.27	817-1484-ND	7.23	6.51	FN9233E-12-06
NEW! FN 9244 Series (Rated Current @ 50°C (25°C), Leakage Current @ 250VAC/50Hz) NEW!						
1 (1.2)	373	59.53	817-1586-ND	5.83	5.25	FN9244-1-06
3 (3.5)	373	13.45	817-1587-ND	5.83	5.25	FN9244-3-06
6 (7.2)	373	4.1	817-1588-ND	5.83	5.25	FN9244-6-06
8 (10.6)	373	2.3	817-1589-ND	5.83	5.25	FN9244-8-06
10 (11.6)	373	1.02	817-1590-ND	5.83	5.25	FN9244-10-06
12 (12)	373	0.58	817-1591-ND	6.22	5.60	FN9244-12-06
15 (15)	373	0.4	817-1592-ND	6.22	5.60	FN9244-15-06
1 (1.2)	2	59.53	817-1593-ND	5.83	5.25	FN9244B-1-06
10 (11.6)	2	1.02	817-1594-ND	5.83	5.25	FN9244B-10-06
1 (1.2)	373	59.53	817-1595-ND	5.83	5.25	FN9244R-1-06
6 (7.2)	373	4.1	817-1596-ND	5.83	5.25	FN9244R-6-06
15 (15)	373	0.4	817-1597-ND	6.22	5.60	FN9244R-15-06
1 (1.2)	373	59.53	817-1598-ND	5.83	5.25	FN9244S-1-06
3 (3.5)	373	13.45	817-1599-ND	5.83	5.25	FN9244S-3-06
NEW! FN 9244E Series (Rated Current @ 50°C (25°C), Leakage Current @ 250VAC/50Hz) NEW!						
1 (1.2)	373	59.53	817-1600-ND	7.68	6.91	FN9244E-1-06
1 (1.2)	373	59.53	817-1601-ND	7.68	6.91	FN9244EU-1-06
6 (7.2)	373	4.1	817-1602-ND	7.68	6.91	FN9244EU-6-06
FN 9260 Series						
1 (1.2)	373	5.3	817-1485-ND	13.63	9.27	FN9260-1-06
2 (2.3)	373	2.7	817-1486-ND	13.63	9.27	FN9260-2-06
4 (4.6)	373	1.0	817-1487-ND	13.63	9.27	FN9260-4-06
6 (6.9)	373	0.3	817-1488-ND	13.63	9.27	FN9260-6-06
10 (11.5)	373	0.2	817-1489-ND	13.63	9.27	FN9260-10-06
1 (1.2)	2	5.3	817-1490-NDΔ	13.63	9.27	FN9260B-1-06
2 (2.3)	2	2.7	817-1491-NDΔ	13.63	9.27	FN9260B-2-06
4 (4.6)	2	1.0	817-1492-NDΔ	13.63	9.27	FN9260B-4-06
6 (6.9)	2	0.3	817-1493-NDΔ	13.63	9.27	FN9260B-6-06
10 (11.5)	2	0.2	817-1494-NDΔ	13.62	9.27	FN9260B-10-06
FN 9263 Series						
1 (1.2)	373	5.3	817-1495-ND	12.58	8.31	FN9263-1-06
2 (2.3)	373	2.7	817-1496-ND	12.58	8.31	FN9263-2-06
3 (3.5)	373	2	817-1497-ND	12.58	8.31	FN9263-3-06
4 (4.6)	373	1.0	817-1498-ND	12.58	8.31	FN9263-4-06
6 (6.9)	373	0.3	817-1499-ND	12.58	8.31	FN9263-6-06
8 (9.2)	373	0.25	817-1500-ND	12.58	8.31	FN9263-8-06
10 (11.5)	373	0.2	817-1501-ND	12.58	8.31	FN9263-10-06

Δ Medical Version

E

NEW! DC EMC / EMI Filter for PV Inverters

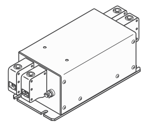

Features

- Reduces conducted emissions towards the solar panel
- Reduces the probability of EMI radiation off the solar panel
- Improvement of system reliability and efficiency

Rated Current@ 55°C (40°C) (A)	Typical Inverter AC Power Rating (kW)	Power Loss @ 25°C/DC (W)	Digi-Key Part No.	Price Each		Schaffner Part No.
				1	25	
25 (28)	10	8	817-1603-ND	69.23	55.38	FN2200-25-33
50 (57)	20	17	817-1604-ND	158.25	126.60	FN2200-50-34
75 (86)	30	18	817-1605-ND	179.98	143.98	FN2200-75-34
100 (115)	40	22	817-1606-ND	324.80	259.84	FN2200-100-35

(Continued)

EMC / RFI Filters

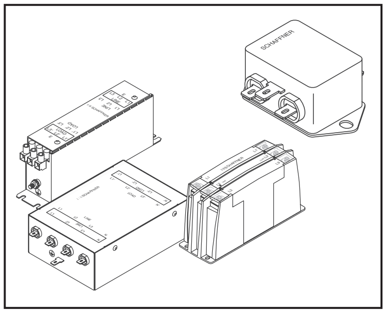

Single-Phase Filters

Single-phase EMC/EMI filters for chassis or DIN rail mounting are key for EMC compliance of higher power office equipment and low to medium power industrial applications. A broad selection of electrical and mechanical features allows a specific choice and deployment for countless applications.

Three-Phase Filters

EMC/EMI Three-phase filter solutions for industrial applications like motor drives and machine tools. These types of EMC/EMI filters are also suitable for mainframe computer systems, large uninterruptible power supplies, medical equipment, wind turbine power stations and a vast array of other three-phase power electronics.

Rated Current@ 40°C (25°F) (A)	Leakage Current@ 230VAC/50Hz (µA)	Induct-ance L (mH)	Digi-Key Part No.	Price Each 1	Price Each 100	Schaffner Part No.
1 Phase						
FN 350 Series						
8 (9.0)	4.9 mA	—	817-1129-ND	166.89	—	FN350-8-29
12 (13.5)	4.9 mA	—	817-1130-ND	166.89	—	FN350-12-29
20 (22.4)	4.9 mA	—	817-1131-ND	166.89	—	FN350-20-29
30 (33.6)	5.4 mA	—	817-1132-ND	200.71	—	FN350-30-33
55 (61.5)	11.0 mA	—	817-1134-ND	283.61	—	FN350-55-33
FN 402 Series						
0.5 (0.6)	373	40	817-1181-ND	8.39	5.58	FN402-0.5-02
1 (1.2)	373	10	817-1182-ND	8.28	5.47	FN402-1-02
1.6 (1.9)	373	6	817-1183-ND	8.28	5.58	FN402-1.6-02
2.5 (3)	373	2	817-1184-ND	9.38	6.22	FN402-2.5-02
4 (4.7)	373	1	817-1185-ND	9.38	6.22	FN402-4-02
6.5 (7.5)	373	1	817-1186-ND	9.38	6.22	FN402-6.5-02
FN 405 Series						
0.5 (0.6)	373	24	817-1187-ND	10.48	6.96	FN405-0.5-02
1 (1.2)	373	10	817-1188-ND	10.48	6.96	FN405-1-02
3 (3.6)	373	2	817-1189-ND	10.48	6.96	FN405-3-02
6 (6.9)	373	0.8	817-1190-ND	10.48	6.96	FN405-6-02
10 (11.5)	373	0.5	817-1191-ND	13.09	8.64	FN405-10-02
FN 406 Series						
0.5 (0.6)	373	24	817-1192-ND	10.79	7.16	FN406-0.5-02
1 (1.2)	373	12	817-1193-ND	10.79	7.16	FN406-1-02
3 (3.6)	373	2.5	817-1194-ND	10.79	7.16	FN406-3-02
6 (6.9)	373	0.78	817-1195-ND	10.79	7.16	FN406-6-02
8.4 (9.6)	373	0.3	817-1196-ND	10.79	7.16	FN406-8.4-02
FN 610 Series						
1 (1.15)	190	3	817-1197-ND	11.67	7.69	FN610-1-06
3 (3.4)	190	2	817-1198-ND	11.67	7.69	FN610-3-06
6 (6.9)	190	0.75	817-1199-ND	11.67	7.69	FN610-6-06
10 (11.5)	190	0.45	817-1200-ND	11.67	7.69	FN610-10-06
20 (23)	190	0.48	817-1201-ND	22.37	14.75	FN610-20-06
30 (34)	190	0.61	817-1202-ND	53.22	35.16	FN610-30-03
3 (3.4)	2	2	817-1203-NDΔ	11.67	7.69	FN610B-3-06
6 (6.9)	2	0.75	817-1204-NDΔ	11.67	7.69	FN610B-6-06
10 (11.5)	2	0.45	817-1205-NDΔ	11.67	7.69	FN610B-10-06
20 (23)	2	0.48	817-1206-NDΔ	23.79	15.70	FN610B-20-06
FN 612 Series						
1 (1.15)	190	3	817-1207-ND	16.37	10.85	FN612-1-06
3 (3.4)	190	2	817-1208-ND	16.37	10.85	FN612-3-06
6 (6.9)	190	0.75	817-1209-ND	16.37	10.85	FN612-6-06
10 (11.5)	190	0.45	817-1210-ND	16.37	10.85	FN612-10-06
20 (23)	190	0.48	817-1211-ND	22.57	14.84	FN612-20-06
20 (23)	190	0.48	817-1212-ND	26.08	17.17	FN612-20-10
30 (34)	190	0.61	817-1213-ND	52.89	34.22	FN612-30-03
30 (34)	190	0.61	817-1214-ND	48.53	32.00	FN612-30-10
80 (92)	450	0.2	817-1215-ND	151.87	98.72	FN612-80-24
FN 660 Series						
3 (3.4)	190	2	817-1217-ND	23.34	15.37	FN660-3-06
6 (6.9)	190	0.75	817-1218-ND	17.02	11.27	FN660-6-06
10 (11.5)	190	0.45	817-1219-ND	21.38	14.11	FN660-10-06
16 (18.4)	190	0.44	817-1221-ND	37.95	25.05	FN660-16-06
16 (18.4)	190	0.44	817-1222-ND	40.02	26.42	FN660-16-10
20 (23)	190	0.48	817-1223-ND	58.68	38.74	FN660-20-03
20 (23)	190	0.48	817-1224-ND	50.61	33.37	FN660-20-06
20 (23)	190	0.48	817-1225-ND	55.42	36.54	FN660-20-10
6 (6.9)	2	0.75	817-1226-NDΔ	23.34	15.37	FN660B-6-06
10 (11.5)	2	0.45	817-1227-NDΔ	23.34	15.37	FN660B-10-06
16 (18.4)	2	0.44	817-1228-NDΔ	37.95	25.05	FN660B-16-06
20 (23)	2	0.48	817-1229-NDΔ	50.61	33.37	FN660B-20-06
FN 670 Series						
1.6 (1.8)	190	7.2	817-1230-ND	30.44	20.11	FN670-1.8-06
2.5 (3)	190	12.2	817-1231-ND	31.30	20.63	FN670-3-06
5 (6)	190	7	817-1232-ND	31.30	20.63	FN670-6-06
8.0 (10)	190	10.4	817-1233-ND	65.45	43.17	FN670-10-06
FN 680 Series						
1 (1.2)	410	22.5	817-1234-ND	34.57	22.84	FN680-1-06
2.5 (3)	410	16	817-1235-ND	36.76	24.32	FN680-2.5-06
4 (4.8)	1900	8	817-1236-ND	41.57	27.48	FN682-4-06
6.5 (7.8)	1900	4.1	817-1237-ND	64.58	42.64	FN682-6.5-06
10 (12)	1900	4	817-1239-ND	93.71	61.80	FN682-10-06
FN 2010 Series						
1 (1.15)	0.74 mA	12	817-1240-ND	12.10	8.00	FN2010-1-06
1 (1.15)	0.74 mA	12	817-1241-ND	12.54	8.32	FN2010-1-07
3 (3.45)	0.74 mA	2.5	817-1242-ND	12.10	8.00	FN2010-3-06
3 (3.45)	0.74 mA	2.5	817-1243-ND	12.54	8.32	FN2010-3-07
6 (6.9)	0.74 mA	1	817-1244-ND	12.10	8.00	FN2010-6-06
10 (11.5)	0.74 mA	0.8	817-1246-ND	12.97	8.63	FN2010-10-06
12 (13.8)	0.74 mA	0.7	817-1248-ND	12.97	8.63	FN2010-12-06
12 (13.8)	0.74 mA	0.7	817-1249-ND	13.74	9.16	FN2010-12-07
16 (18.4)	0.74 mA	0.7	817-1250-ND	20.19	13.38	FN2010-16-06
20 (23)	0.74 mA	0.6	817-1252-ND	20.19	13.38	FN2010-20-06
20 (23)	0.74 mA	0.6	817-1253-ND	21.61	18.37	FN2010-20-07
20 (23)	0.74 mA	0.6	817-1254-ND	40.47	26.74	FN2010-20-08
30 (34.5)	0.87 mA	0.7	817-1255-ND	45.37	30.00	FN2010-30-08
FN 2020 Series						
1 (1.5)	0.74 mA	12	817-1258-ND	16.57	10.95	FN2020-1-06
3 (3.45)	0.74 mA	2.5	817-1260-ND	16.57	10.95	FN2020-3-06
3 (3.45)	0.74 mA	2.5	817-1261-ND	16.90	11.16	FN2020-3-07
6 (6.9)	0.74 mA	1	817-1262-ND	16.57	10.95	FN2020-6-06
10 (11.5)	0.74 mA	0.8	817-1264-ND	16.57	10.95	FN2020-10-06
10 (11.5)	0.74 mA	0.8	817-1265-ND	16.90	11.16	FN2020-10-07
12 (13.8)	0.74 mA	0.7	817-1266-ND	16.57	10.95	FN2020-12-06
16 (18.4)	0.74 mA	0.65	817-1268-ND	22.57	14.95	FN2020-16-06
20 (23)	0.74 mA	0.6	817-1271-ND	23.56	15.58	FN2020-20-06
20 (23)	0.74 mA	0.6	817-1272-ND	24.44	16.11	FN2020-20-08
30 (34.5)	0.87 mA	0.67	817-1273-ND	54.42	35.89	FN2020-30-08
60 (69)	0.87 mA	1	817-1274-ND	185.44	122.11	FN2020-60-24
FN 2030 Series						
1 (1.1)	0.34 mA	20	817-1276-ND	16.66	11.67	FN2030-1-06
3 (3.4)	0.52 mA	14	817-1281-ND	16.66	11.67	FN2030-3-06
4 (4.5)	0.52 mA	14	817-1282-ND	16.66	11.67	FN2030-4-06
6 (6.7)	0.73 mA	8	817-1283-ND	16.66	11.67	FN2030-6-06
8 (8.9)	0.73 mA	8	817-1284-ND	17.28	12.10	FN2030-8-06
10 (11.2)	0.73 mA	8	817-1275-ND	19.86	13.91	FN2030-10-06
12 (13.4)	0.87 mA	4	817-1277-ND	20.56	14.40	FN2030-12-06
16 (17.9)	0.87 mA	4	817-1278-ND	23.59	16.52	FN2030-16-06
20 (22.4)	0.87 mA	4	817-1279-ND	26.20	18.34	FN2030-20-06
30 (33.5)	0.87 mA	2	817-1280-ND	53.75	37.63	FN2030-30-08
FN 2060 Series						
1 (1.2)	0.734 mA	12	817-1285-ND	21.82	14.43	FN2060-1-06
1 (1.2)	0.734 mA	12	817-1286-ND	22.80	15.06	FN2060-1-07
3 (3.5)	0.734 mA	2.5	817-1287-ND	21.70	14.32	FN2060-3-06
3 (3.5)	0.734 mA	2.5	817-1288-ND	22.80	15.06	FN2060-3-07
6 (6.9)	0.734 mA	0.97	817-1289-ND	21.70	14.32	FN2060-6-06
6 (6.9)	0.734 mA	0.97	817-1290-ND	22.80	15.06	FN2060-6-07
10 (11.5)	0.734 mA	0.8	817-1291-ND	22.79	15.06	FN2060-10-06
12 (13.8)	0.734 mA	0.58	817-1293-ND	23.56	15.58	FN2060-12-06
16 (18.4)	0.734 mA	0.65	817-1295-ND	50.50	33.37	FN2060-16-06
16 (18.4)	0.734 mA	0.65	817-1297-ND	51.48	34.00	FN2060-16-08
20 (23)	0.734 mA	0.6	817-1298-ND	52.24	34.52	FN2060-20-06
20 (23)	0.734 mA	0.6	817-1299-ND	52.68	34.74	FN2060-20-08
30 (34.5)	0.867 mA	0.6	817-1300-ND	88.90	58.64	FN2060-30-08
FN 2070 Series						
1 (1.2)	0.734 mA	22	817-1301-ND	26.19	17.27	FN2070-1-06
3 (3.5)	0.734 mA	9.8	817-1303-ND	26.19	17.27	FN2070-3-06
3 (3.5)	0.734 mA	9.8	817-1304-ND	26.52	17.59	FN2070-3-07
6 (6.9)	0.734 mA	7.8	817-1305-ND	35.46	23.48	FN2070-6-06
6 (6.9)	0.734 mA	7.8	817-1306-ND	36.44	24.11	FN2070-6-07
10 (11.5)	0.734 mA	4.5	817-1307-ND	51.15	33.79	FN2070-10-06
12 (13.8)	0.734 mA	3.25	817-1309-ND	51.15	33.79	FN2070-12-06

Δ Medical Version

(Continued)

EMC / RFI Filters *(Cont.)*

Rated Current@ 40°C (25°F) (A)	Leakage Current@ 230VAC/50Hz (µA)	Inductance L (mH)	Digi-Key Part No.	Price Each		Schaffner Part No.
				1	100	
12 (13.8)	0.734 mA	3.25	817-1310-ND	52.68	34.74	FN2070-12-07
16 (18.4)	0.734 mA	2.8	817-1311-ND	82.02	54.10	FN2070-16-06
16 (18.4)	0.734 mA	2.8	817-1312-ND	87.06	57.38	FN2070-16-07
16 (18.4)	0.734 mA	2.8	817-1313-ND	85.95	56.74	FN2070-16-08
25 (28.8)	0.734 mA	2	817-1315-ND	109.77	93.31	FN2070-25-08
36 (41.4)	0.867 mA	1.23	817-1316-ND	112.91	95.98	FN2070-36-08
FN 2080 Series						
1 (1.2)	0.734 mA	22	817-1317-ND	30.10	19.90	FN2080-1-06
3 (3.5)	0.734 mA	9.8	817-1319-ND	30.10	19.90	FN2080-3-06
6 (6.9)	0.734 mA	7.8	817-1321-ND	33.05	21.80	FN2080-6-06
6 (6.9)	0.734 mA	7.8	817-1322-ND	33.39	22.12	FN2080-6-07
10 (11.5)	0.734 mA	4.5	817-1323-ND	37.95	25.05	FN2080-10-06
10 (11.5)	0.734 mA	4.5	817-1324-ND	38.51	25.48	FN2080-10-07
12 (13.8)	0.734 mA	3.25	817-1325-ND	40.90	26.95	FN2080-12-06
16 (18.4)	0.734 mA	2.8	817-1327-ND	69.93	46.11	FN2080-16-06
16 (18.4)	0.734 mA	2.8	817-1329-ND	82.79	54.64	FN2080-16-08
FN 2090 Series						
1 (1.1)	0.5 mA	20	817-1331-ND	23.00	16.11	FN2090-1-06
3 (3.4)	0.5 mA	14	817-1335-ND	23.00	16.11	FN2090-3-06
4 (4.5)	0.5 mA	14	817-1336-ND	23.00	16.11	FN2090-4-06
6 (6.7)	0.67 mA	8	817-1337-ND	27.28	19.10	FN2090-6-06
10 (11.2)	0.67 mA	8	817-1330-ND	36.59	25.62	FN2090-10-06
12 (13.4)	1.02 mA	4	817-1332-ND	38.45	26.92	FN2090-12-06
16 (17.9)	1.02 mA	4	817-1333-ND	68.06	47.65	FN2090-16-06
20 (22.4)	1.02 mA	2.7	817-1334-ND	81.69	57.19	FN2090-20-06
FN 2310 Series						
3 (3.35)	0.69 mA	36.9	817-1340-ND	13.09	9.90	FN2310X-3-06
6 (6.7)	0.69 mA	19.3	817-1341-ND	13.42	10.22	FN2310X-6-06
10 (11.2)	1.73 mA	9.6	817-1342-ND	18.77	16.34	FN2310X-10-06
10 (11.2)	0.69 mA	9.6	817-1339-ND	19.31	15.16	FN2310H-10-06
FN 2320 Series						
3 (3.35)	0.94 mA	1.1	817-1343-ND	10.04	7.58	FN2320Y-3-06
10 (11.2)	0.94 mA	1.3	817-1345-ND	14.73	11.16	FN2320Y-10-06
FN 2410/2412 Series (Rated Current @ 50°C (40°C)						
8 (8.8)	3.4 mA	—	817-1357-ND	47.78	37.72	FN2410-8-44
16 (17.5)	3.4 mA	—	817-1351-ND	55.36	43.71	FN2410-16-44
25 (27.4)	3.4 mA	—	817-1352-ND	64.33	50.79	FN2410-25-33
32 (35.0)	3.4 mA	—	817-1353-ND	70.72	55.83	FN2410-32-33
45 (49.3)	3.4 mA	—	817-1354-ND	71.90	56.77	FN2410-45-33
60 (65.7)	3.4 mA	—	817-1355-ND	112.72	101.94	FN2410-60-34
80 (87.6)	3.4 mA	—	817-1356-ND	125.25	113.27	FN2410-80--34
8 (8.8)	3.4 mA	—	817-1362-ND	43.22	39.09	FN2412-8-44
16 (17.5)	3.4 mA	—	817-1358-ND	48.68	44.03	FN2412-16-44
25 (27.4)	3.4 mA	—	817-1359-ND	54.71	49.48	FN2412-25-33
32 (35.0)	3.4 mA	—	817-1360-ND	59.71	54.00	FN2412-32-33
45 (49.3)	3.4 mA	—	817-1361-ND	65.85	59.56	FN2412-45-33

Δ Medical Version

Rated Current@ 50°C (40°C) (A)	Leakage Current@ 480VAC/50Hz (mA)	Power Loss@ 25°C/50Hz (W)	Digi-Key Part No.	Price Each		Schaffner Part No.
				1	20	
3 Phase						
FN 256 Series (Leakage Current @ 400VAC/50 Hz)						
8 (8.8)	3.4	2.7	817-1068-ND	111.69	—	FN256-8-46
16 (17.5)	3.4	6.0	817-1069-ND	116.83	—	FN256-16-46
25 (27)	3.4	11.6	817-1070-ND	164.66	—	FN256-25-47
36 (39)	3.4	14.8	817-1071-ND	178.65	—	FN256-36-47
64 (70)	3.4	18.4	817-1074-ND	335.96	—	FN256-64-52
80 (88)	3.4	18.8	817-1072-ND	303.37	—	FN256-80-28
80 (88)	3.4	18.8	817-1073-ND	303.37	—	FN256-80-34
FN 258 Series (Leakage Current @ 440VAC/50 Hz)						
7 (7.7)	16.5	9	817-1075-ND	134.94	—	FN258-7-07
7 (7.7)	16.5	9	817-1076-ND	142.03	—	FN258-7-29
16 (17.5)	18.3	20	817-1077-ND	149.50	—	FN258-16-07
16 (17.5)	18.3	20	817-1078-ND	157.39	—	FN258-16-29
30 (33)	24.2	21	817-1080-ND	194.29	—	FN258-30-33
42 (46)	25.8	30	817-1081-ND	414.50	—	FN258-42-07
42 (46)	25.8	30	817-1082-ND	414.50	—	FN258-42-33
55 (60)	25.8	30	817-1084-ND	434.13	—	FN258-55-34
75 (82)	25.8	24	817-1085-ND	650.13	—	FN258-75-34
100 (110)	25.8	51	817-1086-ND	683.93	—	FN258-100-35
FN 351 Series (Rated Current @ 40°C (25°C), Leakage Current @ 400VAC/50 Hz)						
8 (9.2)	1.9	7	817-1135-ND	166.20	—	FN351-8-29
16 (18.5)	1.9	8	817-1136-ND	170.40	—	FN351-16-29
25 (28.9)	28.0	8	817-1137-ND	174.59	—	FN351-25-33
36 (41.6)	28.0	9	817-1139-ND	175.98	—	FN351-36-33
50 (57.7)	29.5	11	817-1141-ND	187.15	—	FN351-50-33
64 (73.9)	29.5	15	817-1142-ND	221.23	—	FN351-64-33
25 (28.9)	32.7	8	817-1149-ND	193.98	—	FN351H-25-33
50 (57.7)	32.7	11	817-1151-ND	201.92	—	FN351H-50-33
64 (73.9)	32.7	15	817-1152-ND	225.14	—	FN351H-64-33
80 (92.3)	38.0	23	817-1153-ND	544.70	—	FN351H-80-34
FN 355 Series (Rated Current @ 40°C (25°C), Leakage Current @ 400VAC/50 Hz)						
10 (11.5)	0.07	1.8	817-1156-ND	60.20	—	FN355-10-05
20 (23)	0.29	3.4	817-1157-ND	75.80	—	FN355-20-03
FN 356 Series (Rated Current @ 40°C (25°C), Leakage Current @ 400VAC/50 Hz)						
16 (18.4)	0.43	7.0	817-1158-ND	195.25	—	FN356-16-06
16 (18.4)	0.43	7.0	817-1159-ND	195.25	—	FN356-16-29
25 (28.8)	0.43	10.1	817-1160-ND	316.33	—	FN356-25-24
25 (28.8)	0.43	10.1	817-1161-ND	316.33	—	FN356-25-33
36 (41.5)	0.43	10.9	817-1162-ND	345.79	—	FN356-36-24
36 (41.5)	0.43	10.9	817-1163-ND	345.79	—	FN356-36-33
50 (57.7)	0.43	15.8	817-1164-ND	460.32	—	FN356-50-24
50 (57.7)	0.43	15.8	817-1165-ND	460.32	—	FN356-50-33
FN 3025/3026 Series						
10 (10.7)	0.4	4.8	817-1113-ND	68.92	54.28	FN3025HL-10-71
20 (21.4)	0.4	6.2	817-1114-ND	78.31	61.68	FN3025HL-20-71
30 (32.1)	0.4	7.0	817-1115-ND	93.97	74.01	FN3025HL-30-71
50 (53.5)	0.4	10.5	817-1116-ND	105.10	82.77	FN3025HL-50-72
10 (10.7)	2.5	4.8	817-1117-ND	75.82	59.71	FN3025HP-10-71
20 (21.4)	2.5	6.2	817-1118-ND	86.15	67.85	FN3025HP-20-71
30 (32.1)	2.5	7.0	817-1119-ND	103.38	81.42	FN3025HP-30-71
50 (53.5)	2.5	10.5	817-1120-ND	115.61	91.05	FN3025HP-50-72
10 (10.7)	0.4	4.8	817-1121-ND	74.43	58.62	FN3026HL-10-71
20 (21.4)	0.4	6.2	817-1122-ND	84.58	66.61	FN3026HL-20-71
30 (32.1)	0.4	7.0	817-1123-ND	101.50	79.94	FN3026HL-30-71
50 (53.5)	0.4	10.5	817-1124-ND	113.50	89.38	FN3026HL-50-72
10 (10.7)	2.5	4.8	817-1125-ND	81.87	64.48	FN3026HP-10-71
20 (21.4)	2.5	6.2	817-1126-ND	93.04	73.28	FN3026HP-20-71
30 (32.1)	2.5	7.0	817-1127-ND	111.65	87.93	FN3026HP-30-71
50 (53.5)	2.5	10.5	817-1128-ND	124.86	98.33	FN3026HP-50-72
FN 3256 Series						
64 (70)	<1	17.2	817-1366-ND	455.83	300.85	FN3256H-64-34
FN 3258 Series (Leakage Current @ 400VAC/50 Hz)						
7 (7.7)	33.0	3.8	817-1369-ND	98.25	97.24	FN3258-7-44
7 (7.7)	33.0	3.8	817-1370-ND	96.10	95.12	FN3258-7-45
16 (17.5)	33.0	6.1	817-1371-ND	147.32	145.80	FN3258-16-44
16 (17.5)	33.0	6.1	817-1372-ND	139.95	138.51	FN3258-16-45
30 (32.9)	33.0	11.8	817-1373-ND	196.28	194.26	FN3258-30-33
30 (32.9)	33.0	11.8	817-1374-ND	186.46	184.54	FN3258-30-47
42 (46.0)	33.0	15.7	817-1375-ND	222.46	220.17	FN3258-42-33
42 (46.0)	33.0	15.7	817-1376-ND	211.34	209.16	FN3258-42-47
55 (60.2)	33.0	25.9	817-1377-ND	315.82	312.57	FN3258-55-34
55 (60.2)	33.0	25.9	817-1378-ND	300.02	296.93	FN3258-55-52
75 (82.2)	33.0	32.2	817-1379-ND	356.18	352.52	FN3258-75-34
75 (82.2)	33.0	32.2	817-1380-ND	338.37	334.89	FN3258-75-52
100 (109.5)	33.0	34.5	817-1381-ND	374.93	371.07	FN3258-100-35
130 (142.4)	33.0	43.1	817-1382-ND	414.91	410.63	FN3258-130-35
180 (197.1)	33.0	58.3	817-1383-ND	440.45	435.92	FN3258-180-40
FN 3270 Series						
10 (11)	26.4	2.4	817-1386-ND	69.23	68.52	FN3270H-10-29
10 (11)	26.4	2.4	817-1387-ND	69.23	68.52	FN3270H-10-44
20 (22)	26.4	4.1	817-1390-ND	76.33	75.54	FN3270H-20-29
20 (22)	26.4	4.1	817-1391-ND	76.33	75.54	FN3270H-20-44

(Continued)

EMC / RFI Filters *(Cont.)*

Rated Current@ 50°C (40°C) (A)	Leakage Current@ 480VAC/50Hz (mA)	Power Loss@ 25°C/50Hz (W)	Digi-Key Part No.	Price Each 1	20	Schaffner Part No.
35 (38)	29.4	6.8	817-1394-ND	90.65	89.72	FN3270H-35-33
50 (55)	29.4	12.8	817-1396-ND	172.85	171.08	FN3270H-50-34
65 (71)	29.4	13.5	817-1398-ND	197.08	195.05	FN3270H-65-34
80 (88)	29.4	13.5	817-1399-ND	269.79	267.02	FN3270H-80-35
100 (110)	29.4	17.1	817-1385-ND	311.61	308.40	FN3270H-100-35
150 (164)	59.5	7.5	817-1388-ND	489.87	484.83	FN3270H-150-99
200 (219)	59.5	13.2	817-1389-ND	516.45	511.13	FN3270H-200-99
250 (274)	59.5	20.6	817-1392-ND	531.78	526.30	FN3270H-250-99
320 (350)	59.5	12.2	817-1393-ND	544.36	538.76	FN3270H-320-99
400 (438)	59.5	19.2	817-1395-ND	559.21	553.44	FN3270H-400-99
600 (657)	59.5	35.6	817-1397-ND	611.86	605.56	FN3270H-600-99
1000 (1095)	59.5	81.0	817-1384-ND	833.70	825.11	FN3270H-1000-99
			FN 3280 Series			
16 (17.5)	<1	6.0	817-1401-ND	131.77	130.42	FN3280H-16-29
25 (27)	<1	11.6	817-1402-ND	166.10	164.39	FN3280H-25-33
36 (39)	<1	14.8	817-1403-ND	184.02	182.13	FN3280H-36-33
64 (70)	<1	18.4	817-1404-ND	277.52	274.66	FN3280H-64-34
80 (88)	<1	18.9	817-1405-ND	370.50	366.69	FN3280H-80-35
120 (131)	<1	28.5	817-1406-ND	461.19	456.44	FN3280H-120-35
200 (219)	<1	46.8	817-1408-ND	613.76	607.43	FN3280H-200-40
			FN 3359 Series			
150 (164)	<6	24	817-1409-ND	1029.73	678.95	FN3359-150-28
180 (197)	<6	34	817-1410-ND	1176.98	775.79	FN3359-180-28
250 (250)	<6	49	817-1411-ND	1266.43	835.79	FN3359-250-28
320 (350)	<6	19	817-1412-ND	1518.40	1001.06	FN3359-320-99
400 (438)	<6	29	817-1413-ND	1769.30	1167.38	FN3359-400-99
600 (657)	<6	44	817-1414-ND	2022.37	1333.69	FN3359-600-99
800 (876)	<6	39	817-1415-ND	2067.30	1436.84	FN3359-800-99

DELTA

EMI Filters

Since 1981, Delta has produced high quality, dependable EMI filters for power supplies, monitors, instruments, networking and medical equipment and many other tools used throughout the world. The present products cover IEC inlet filters with a maximum of 20A. • **Safety Specifications:** For safety ratings and certifications, please see data sheet.

Fig. 1

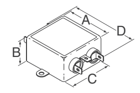

Fig. 2

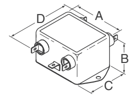

Fig. 3

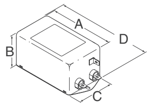

Fig. 4

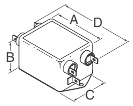

Fig. 5

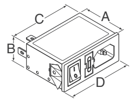

Fig. 6

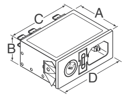

Fig. 7

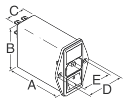

Fig. 8

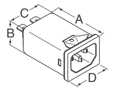

Fig. 9

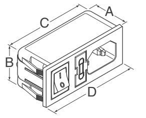

Fig. 10

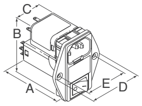

Fig. 11

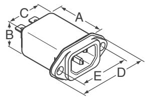

Fig. 12

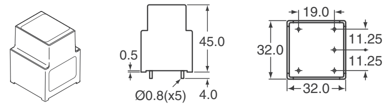

Fig.	Current Rating 115VAC	250VAC	Termination	Dimensions — Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	25	Delta Part No.
						General Purpose Filters						
1	20A	20A	Faston/Solder	2.02 (51.3)	1.16 (29.5)	2.02 (51.3)	3.25 (82.5)	603-1136-ND	12.29	11.25	9.42	20DBAG5
	2A	2A	Faston/Solder	2.02 (51.3)	0.65 (16.5)	1.77 (45.0)	2.15 (54.6)	603-1141-ND	6.79	6.22	5.21	02DBAG5
	5A	5A	Faston/Solder	—	1.16 (29.5)	2.04 (51.8)	2.99 (75.9)	603-1143-ND	8.91	8.15	6.83	05DKAG5
						Switching Transient Filters						
3	6A	6A	Faston/Solder	3.76 (95.5)	1.83 (46.4)	2.22 (56.5)	4.49 (114.0)	603-1152-ND	30.69	28.08	23.51	06DCCG5B
						High Performance Filters						
2	20A	20A	Faston/Solder	3.33 (84.6)	1.52 (38.6)	—	5.14 (130.5)	603-1147-ND	35.56	32.53	27.24	20DRGG5
4	10A	10A	Faston/Solder	3.33 (84.6)	1.52 (38.6)	2.02 (51.3)	3.75 (95.2)	603-1137-ND	16.50	15.10	12.64	10DRCG5

IEC

Fig.	Current Rating 115VAC	250VAC	Termination	Dimensions — Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	25	Delta Part No.
						Power Entry EMI Filters							
5	6A	4A	Faston/Solder	1.15 (29.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1131-ND	20.68	18.92	15.84	06AK2D
6	6A	6A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1144-ND	22.11	20.24	16.94	06AK5
7	10A	10A	Faston/Solder	2.76 (70.1)	2.37 (60.2)	1.14 (29.0)	1.99 (50.5)	1.57 (40.0)	603-1146-ND	29.26	26.77	22.41	10EK3S
						Snap-In							
8	8A	4A	Faston/Solder	1.66 (42.2)	1.12 (28.4)	0.84 (21.4)	1.22 (31.0)	—	603-1133-ND	6.25	5.72	4.79	03GENG3E
	8A	4A	Faston/Solder	1.66 (42.6)	0.82 (20.8)	1.12 (28.4)	1.22 (31.0)	—	603-1151-ND†	7.19	6.58	5.51	06GENG3E-R(H)
9	4A	4A	Faston/Solder	1.06 (26.9)	1.15 (29.2)	2.6 (66.0)	2.65 (67.3)	—	603-1138-ND	8.93	8.17	6.84	06A2D
	6A	4A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1132-ND	23.50	21.50	18.00	06AR2D
	6A	6A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1140-ND	22.40	20.49	17.16	06AR2
						Compact IEC							
10	10A	6A	Faston/Solder	2.01 (51.3)	2.28 (58.00)	1.10 (28.00)	1.97 (50.0)	1.57 (40.0)	603-1149-ND	17.44	15.96	13.36	10SB3S
						EMI Filters							
11	3A	3A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1153-ND	5.99	5.49	4.59	03GEEG3E
	10A	10A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1154-ND	5.99	5.49	4.59	10GEEG3E
	8A	6A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1155-ND	5.99	5.49	4.59	06GEEG3E

† With Bleed Resistor

PCB Board Mount

Fig.	Current Rating 115VAC	250VAC	Digi-Key Part No.	Price Each 1	10	25	Delta Part No.
12	3A	3A	603-1142-ND	9.09	8.33	6.97	03MK2

Corcom Power Entry Modules

C Series: A two-function power entry module combining a DPST switch and an IEC 320 power line connector.
CU Series: This series provides power entry for equipment designed for popular 1U (13/4") height equipment racks. The filtered versions provide completed shielding, shrouded quick connect terminals and basic filtering for 1A ~ 15A applications, in extremely compact size.
GG Series: The power entry modules combine the functions of a general purpose RFI filter with IEC power cord connector and single or dual metric fusing, in the smallest possible panel space.
HG Series: A medical version of our GG series, these filters offer the same compact design but reduce the line-to-ground capacitance in order to meet UL2601 patient care requirements.
P Series: This series of power entry modules offers full flexibility of design in the most compact package. As the first 10 Amp module to provide all five power entry functions in one compact design, the "Chameleon" readily adapts to its environment and the needs of international markets. • Snap-in or flange mounting • IEC power line connector • Both North American and European fusing capabilities • Two voltage selections • Optional DPST on/off switch • Filtering options for general purpose, high performance and medical applications.
J Series: The most widely accepted of all the power entry modules, the J series combines an IEC connector, 2 voltage, or 4 voltage selection, and a North American fuse holder.
L Series: The power entry modules are compact units that combine a multi-function power entry module and high performance RFI filtering capabilities. They are available with either a four voltage selector or a DPST on/off switch.
LA Series: A multi-function power entry connector with a choice of filtering capabilities. The series features an IEC line connector, selectable North American or dual European fusing capabilities, DPST on/off switch and 120/240 voltage selection. The filtered LA units provide a one piece solution to all power entry needs and provide a filtering solution for almost any RFI problem. Their vertical design is flange mounted and will meet requirements for worldwide markets.
M Series: This series of power entry modules offers the most choices of power entry components and filtering options to fit a specific need.
SR Series: Includes a full line of popular AC receptacles. These male and female power line connectors include snap-in and flange mounted models. All have complete safety agency approvals for worldwide usage.

Part Numbering System for P Series (Figure 6A, 6B & 6C)

	Mounting Style	Extender Options	Switch Options	Voltage Select	Fuse Options	Filter Type	Filter Current	Shield Options
P								
	E = Mtg. Ears (horiz.) S = Snap-in M = Mtg. Ears (Vertical)	0 = None C = FN260 J = J Series L = L Series	0 = Blank S = DPST	0 = Single voltage S = Dual voltage select (SMPS) X = Dual voltage select (series/parallel)	D = Dual fuse S = Single fuse	0 = No filter B = Intercon. block H = Medical Filter S = Gen. purpose L = High Performance Medical Z = High Performance	0 = No filter 3 = 3 amps 6 = 6 amps X = 10 amps	0 = No shield A = Filter shield B = Complete shield C = Complete Can (for L & Z models)

Fig.	Rated Current 120V (Amps)	Termination	Dimensions – mm						Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E	F		1	25	100	
C Series — Switch with IEC Connector													
1	3	Faston, Straight	31.24	64.26	41.17	—	—	—	CCM1690-ND	19.60	17.84	15.10	3CFS1
	6	Faston, Straight	31.24	64.26	41.17	—	—	—	CCM1699-ND	18.28	16.64	14.08	6CFS1
	10	Faston, Straight	31.24	24.64	41.17	—	—	—	CCM1647-ND◊	6.60	6.01	5.09	10CS1
	10	Faston, Straight	31.24	64.26	41.17	—	—	—	CCM1668-ND	20.30	18.48	15.64	10CFS1
	15	Snap-in	30.93	23.6	41.19	—	—	—	CCM1914-ND ***NEW!***	6.94	6.32	5.35	15CS1
	15	Snap-in	30.93	23.6	41.19	—	—	—	CCM1915-ND ***NEW!***	8.08	7.36	6.23	15CBS1
2	3	Faston, Straight	44.2	64.26	41.17	28.5	—	36.0	CCM1689-ND	19.60	17.84	15.10	3CFE1
	6	Faston, Straight	44.2	64.26	41.17	28.5	—	36.0	CCM1698-ND	19.18	17.46	14.77	6CFE1
	10	Faston, Straight	44.2	24.64	41.17	26.92	—	36.0	CCM1666-ND◊	6.60	6.01	5.09	10CE1
	10	Faston, Straight	44.2	64.26	41.17	28.5	—	36.0	CCM1667-ND	20.82	18.95	16.04	10CFE1
	15	Flange	44.06	23.6	41.19	27.60	—	35.99	CCM1916-ND ***NEW!***	6.94	6.32	5.35	15CE1
	15	Flange	44.06	23.6	41.19	27.60	—	35.99	CCM1917-ND ***NEW!***	8.08	7.36	6.23	15CBE1
NEW! CU Series — 1U Height Power Entry Modules NEW!													
1	1	Snap-in	30.60	45.00	34.10	—	—	—	CCM1897-ND	21.92	19.95	16.88	1CUFS1
	3	Snap-in	30.60	45.00	34.10	—	—	—	CCM1894-ND	21.92	19.95	16.88	3CUFS1
	6	Snap-in	30.60	45.00	34.10	—	—	—	CCM1891-ND	21.92	19.95	16.88	6CUFS1
	10	Snap-in	30.60	45.00	34.10	—	—	—	CCM1911-ND	21.92	19.95	16.88	10CUFS1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1900-ND◊	7.40	6.74	5.70	15CUS1
	15	Snap-in	30.60	45.00	34.10	—	—	—	CCM1901-ND	23.66	21.54	18.22	15CUFS1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1905-ND◊★	8.38	7.63	6.46	15CUBS1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1907-ND◊	7.40	6.74	5.70	15CU15S1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1908-ND◊★	8.38	7.63	6.46	15CU15BS1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1909-ND◊	7.40	6.74	5.70	15CU10S1
	15	Snap-in	30.60	24.60	34.10	—	—	—	CCM1910-ND◊★	8.38	7.63	6.46	15CU10BS1
2	1	Flange	43.10	45.00	34.10	30.5	—	36.8	CCM1898-ND	21.92	19.95	16.88	1CUFF1
	1	Flange	43.90	44.50	34.10	27.3	—	36.8	CCM1899-ND	21.92	19.95	16.88	1CUFE1
	3	Flange	43.10	45.00	34.10	30.5	—	36.8	CCM1895-ND	21.92	19.95	16.88	3CUFF1
	3	Flange	43.90	44.50	34.10	27.3	—	36.8	CCM1896-ND	21.92	19.95	16.88	3CUFE1
	6	Flange	43.10	45.00	34.10	30.5	—	36.8	CCM1892-ND	21.92	19.95	16.88	6CUFF1
	6	Flange	43.90	44.50	34.10	27.3	—	36.8	CCM1893-ND	21.92	19.95	16.88	6CUFE1
	10	Flange	43.10	45.00	34.10	30.5	—	36.8	CCM1912-ND	22.08	20.10	17.01	10CUFF1
	10	Flange	43.90	44.50	34.10	27.3	—	36.8	CCM1913-ND	21.92	19.95	16.88	10CUFE1
	15	Flange	43.10	45.00	34.10	30.5	—	36.8	CCM1902-ND	23.74	21.61	18.28	15CUFF1
	15	Flange	43.90	44.50	34.10	27.3	—	36.8	CCM1903-ND	23.66	21.54	18.22	15CUFE1
	15	Flange	43.90	24.60	34.10	27.3	—	36.8	CCM1904-ND◊	7.68	6.99	5.92	15CUE1
	15	Flange	43.90	24.60	34.10	27.3	—	36.8	CCM1906-ND◊★	8.38	7.63	6.46	15CUBE1
GG Series — Power Entry Modules with Fuse Holders													
3	1	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1681-ND§	13.28	12.09	10.23	1EGG1-1
	3	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1692-ND§	12.36	11.25	9.52	3EGG1-1
	3	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1693-ND†	14.70	13.38	11.32	3EGG1-2
	6	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1620-ND§	11.66	10.62	8.98	6EGG1-1
	6	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1650-ND†	14.22	12.95	10.95	6EGG1-2
	10	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1872-ND§	14.24	12.96	10.97	10EGG1-1
	10	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1871-ND†	14.64	13.33	11.28	10EGG1-2
4	6	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1756-ND§	16.40	14.93	12.63	6EGG8-1
	10	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1873-ND§	15.74	14.33	12.12	10EGG8-1
	10	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1874-ND†	16.14	14.69	12.43	10EGG8-2
5	3	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1790-ND†	14.24	12.96	10.97	3EGS1-2
	3	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1791-ND§	11.98	10.91	9.23	3EGS1-1
	6	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1792-ND§	11.58	10.54	8.92	6EGS1-1
	6	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1705-ND†	14.12	12.85	10.88	6EGS1-2
	10	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1875-ND§	13.64	12.42	10.51	10EGS1-1
	10	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1876-ND†	14.04	12.78	10.82	10EGS1-2
HG Series — Power Entry Modules with Fuse Holders													
3	3	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1694-ND†	13.50	12.29	10.40	3EHG1-2
	6	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1707-ND†	12.84	11.69	9.89	6EHG1-2
	10	Faston, Straight	54.6	28.7	32.8	36.1	44.7	—	CCM1882-ND†	15.64	14.24	12.05	10EHG1-2
4	1	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1878-ND†	17.04	15.51	13.13	1EHG8-2
	3	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1880-ND†	16.60	15.11	12.79	3EHG8-2
	6	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1879-ND†	16.70	15.20	12.86	6EHG8-2
	10	Wire Lead	51.3	28.7	32.8	36.1	44.7	—	CCM1881-ND†	17.38	15.82	13.39	10EHG8-2
5	10	Faston, Straight	54.1	28.7	32.5	37.1	36.1	—	CCM1877-ND†	15.04	13.69	11.59	10EHGS1-2
P Series, Chameleon — For General, High Performance or Medical Applications (See chart for part number break down)													
6A	3	Faston	31.49	54.1	58.67	—	—	—	CCM1719-ND	20.86	18.99	16.07	PS0S0DH3B
	3	Faston	31.49	54.1	58.67	—	—	—	CCM1759-ND	21.68	19.73	16.70	PS0S0DS3B
	3	Faston	31.49	54.1	58.67	—	—	—	CCM1722-ND	20.50	18.66	15.79	PS0S0SS3A
	3	Faston	31.49	54.1	58.67	—	—	—	CCM1723-ND	21.68	19.73	16.70	PS0S0SS3B
	3	Faston	31.49	54.1	58.67	—	—	—	CCM1377-ND	17.78	16.18	13.70	PS0SXSS30
	3	Faston	31.49	54.1	58.67	—	—	—	CCM1376-ND	18.16	16.53	13.99	PS000SS3B
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1724-ND	20.14	18.33	15.51	PS0SXSS6A

◊ Unfiltered § (-1 Models) Utilizes 1 5x20 fuse † (-2 Models) Utilizes 2 5x20 fuses ★ Pre-connected terminals

Fig. 1

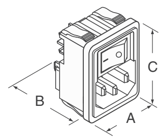

Fig. 2

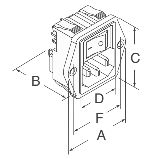

Fig. 3

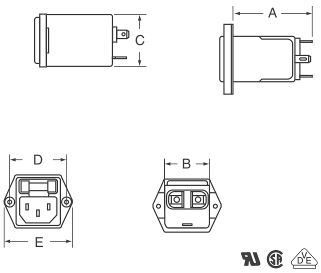

Fig. 4

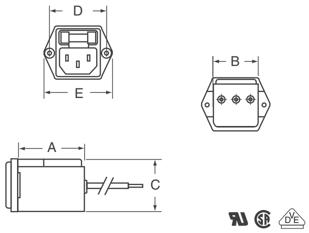

Fig. 5

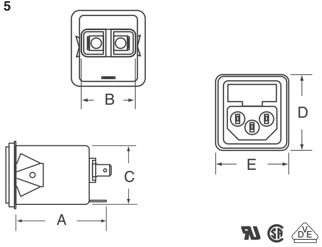

(Continued)

Corcom Power Entry Modules *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimensions – mm						Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E	F		1	25	100	
6A	6	Faston	31.49	54.1	58.67	—	—	—	CCM1382-ND	20.26	18.44	15.61	PS0S0SS6A
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1753-ND	18.48	16.82	14.23	PS0SSDS60
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1720-ND	21.20	19.30	16.33	PS0S0DS6B
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1378-ND	18.48	16.82	14.23	PS0SXSS60
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1381-ND	18.48	16.82	14.23	PS0SXDS60
	6	Faston	31.49	54.1	58.67	—	—	—	CCM1600-ND	18.48	16.82	14.23	PS0S0SS60
	10	Faston	31.49	49.02	58.67	—	—	—	CCM1372-ND◊	12.84	11.69	9.89	PS0SXS000
	10	Faston	31.49	49.02	58.67	—	—	—	CCM1373-ND◊	10.02	9.12	7.72	PS000S000
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1374-ND	15.30	13.93	11.79	PS0S0SBX0
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1379-ND	21.66	19.72	16.68	PS0S0SSXA
	10	Faston	31.49	49.02	58.67	—	—	—	CCM1733-ND◊	12.94	11.78	9.97	PS0SXD000
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1735-ND	22.36	20.35	17.22	PS0S0SSXB
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1721-ND	23.08	21.01	17.78	PS0S0DSXB
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1750-ND	20.26	18.44	15.61	PS0S0DHX0
	10	Faston	31.49	49.02	58.67	—	—	—	CCM1718-ND◊	12.84	11.69	9.89	PS0S0D000
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1789-ND	17.54	15.97	13.51	PS000SSX0
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1380-ND	20.26	18.44	15.61	PS000SSXB
6B	3	Faston	50.29	54.1	58.67	—	—	—	CCM1385-ND	18.62	16.95	14.34	PE0S0SS30
	6	Faston	50.29	54.1	58.67	—	—	—	CCM1383-ND	19.32	17.59	14.88	PE0SSSS60
	6	Faston	50.29	54.1	58.67	—	—	—	CCM1760-ND	23.54	21.43	18.13	PE0S0DH6B
	10	Faston	50.29	49.02	58.67	—	—	—	CCM1375-ND◊	13.66	12.44	10.52	PE0SSS000
	10	Faston	50.29	54.1	58.67	—	—	—	CCM1384-ND	20.72	18.86	15.96	PE0SSSSX0
	10	Faston	31.49	54.1	58.67	—	—	—	CCM1822-ND◊	12.48	11.36	9.61	PS0S0S000
6C	6	Faston	31.14	112.27	63.40	—	—	—	CCM1861-ND	37.92	34.51	29.20	PM0S0DL6C
	6	Faston	31.14	112.27	63.40	—	—	—	CCM1863-ND	37.92	34.51	29.20	PM0S0DZ6C
	10	Faston	31.14	112.27	63.40	—	—	—	CCM1862-ND	37.92	34.51	29.20	PM0S0DLXC
	10	Faston	31.14	112.27	63.40	—	—	—	CCM1864-ND	37.92	34.51	29.20	PM0S0DZXC
	6	Faston	31.14	112.27	63.40	—	—	—	CCM1865-ND	37.92	34.51	29.20	PM0S0SL6C
	6	Faston	31.14	112.27	63.40	—	—	—	CCM1867-ND	37.92	34.51	29.20	PM0S0SZ6C
	10	Faston	31.14	112.27	63.40	—	—	—	CCM1866-ND	37.92	34.51	29.20	PM0S0SLXC
	10	Faston	31.14	112.27	63.40	—	—	—	CCM1868-ND	37.92	34.51	29.20	PM0S0SZXC
Cable Assembly for P Series 4 Position with 6" wire									CCM1664-ND	3.20	2.92	—	PA100

Fig.	Rated Current 120V (Amps)	RFI Filter Type	Available Voltage Selection Position	DPST On/Off Switch	Dimensions – mm						Digi-Key Part No.	Price Each			Corcom Part No.
					A	B	C	D	E	F		1	25	100	
J Series — Power Entry Modules															
7	6	Unfiltered	4	—	68.07	38.61	29.72	31.24	—	—	CCM1200-ND	15.86	14.44	12.22	6VJ1
	6	Gen. Purpose	4	—	69.85	47.50	29.73	40.13	—	—	CCM1201-ND	27.96	25.45	21.53	6J4
L Series — Power Entry Modules with RFI Power Line Filter															
6A	2	Gen. Purpose	1	Yes	32.51	51.05	58.42	—	—	—	CCM1108-ND	33.02	30.05	25.43	2EDL1SC
	4	Gen. Purpose	1	Yes	32.51	51.05	58.42	—	—	—	CCM1112-ND	31.62	28.78	24.35	4EDL1SC
	2	Gen. Purpose	1	Yes	32.51	51.05	58.42	—	—	—	CCM1051-ND	35.28	32.11	27.17	2EDL1SCM
	4	Gen. Purpose	1	Yes	32.51	51.05	58.42	—	—	—	CCM1055-ND	32.66	29.73	25.15	4EDL1SCM
	6	Gen. Purpose	1	Yes	32.51	51.05	58.42	—	—	—	CCM1059-ND	32.66	29.73	25.15	6EDL1SCM
	6	Gen. Purpose	4	No	32.51	51.05	58.42	—	—	—	CCM1061-ND	32.66	29.73	25.15	6EDL4CM
	6	Medical	4	No	32.51	51.05	58.42	—	—	—	CCM1065-ND	32.66	29.73	25.15	6EHL4CM
6B	2	Gen. Purpose	1	Yes	50.29	51.05	58.42	—	—	—	CCM1107-ND	31.42	28.60	24.20	2EDL1S
	4	Gen. Purpose	1	Yes	50.29	51.05	58.42	—	—	—	CCM1111-ND	31.42	28.60	24.20	4EDL1S
	6	Gen. Purpose	1	Yes	50.29	51.05	58.42	—	—	—	CCM1115-ND	31.42	28.60	24.20	6EDL1S
	6	Gen. Purpose	4	No	50.29	51.05	58.42	—	—	—	CCM1117-ND	31.42	28.60	24.20	6EDL4
	6	Medical	1	Yes	50.29	51.05	58.42	—	—	—	CCM1119-ND	31.42	28.60	24.20	6EHL1S
	6	Medical	1	Yes	50.29	51.05	58.42	—	—	—	CCM1062-ND	32.90	29.94	25.34	6EHL1SM
	6	Medical	4	No	50.29	51.05	58.42	—	—	—	CCM1064-ND	34.54	31.44	26.60	6EHL4M
Fuse holder for 5 X 20mm L Series											CCM1662-ND	1.56	1.42	—	LA201
LA Series — Multi-Function Power Entry Modules															
8	5	Gen. Purpose	2	Yes	50.5	39.9	65.79	61.21	68.07	—	CCM1614-ND	51.18	46.58	39.41	5EFLA2S
	3	Premium	2	Yes	50.5	39.9	65.79	61.21	105.7	—	CCM1731-ND	65.86	59.94	50.72	3EZLA2S
M Series — Power Entry Modules															
9A	6	Unfiltered	1	No	86.1	72.1	29.0	62.0	36.8	—	CCM1000-ND	14.02	12.76	10.80	6VM1
9B	6	Unfiltered	2	No	98.6	84.3	29.0	74.2	36.8	—	CCM1002-ND	16.70	15.20	12.86	6VM2
9B	6	Unfiltered	4	No	98.6	84.3	29.0	74.2	36.8	—	CCM1004-ND	16.94	15.42	13.05	6VM4
10A	6	Unfiltered	1	Yes	105.9	91.9	29.0	81.8	36.8	—	CCM1001-ND	17.02	15.49	13.11	6VM1S
10B	6	Unfiltered	2	Yes	118.1	104.1	29.0	94.5	36.8	—	CCM1003-ND	19.84	18.06	15.28	6VM2S
10B	6	Unfiltered	4	Yes	118.1	104.1	29.0	94.5	36.8	—	CCM1005-ND	19.84	18.06	15.28	6VM4S
10C	5	Medical	1	Yes	105.9	91.9	29.0	81.8	55.6	—	CCM1011-ND	25.22	22.96	19.42	5EHM1S
10D	5	Medical	4	Yes	118.1	104.1	29.0	74.2	55.6	—	CCM1013-ND	28.04	25.52	21.60	5EHM4S
10C	5	Gen. Purpose	1	Yes	105.9	91.9	29.0	81.8	55.6	—	CCM1021-ND	24.80	22.57	19.10	5EFM1S
10D	5	Gen. Purpose	4	Yes	118.1	104.1	29.0	74.2	55.6	—	CCM1023-ND	27.64	25.16	21.29	5EFM4S
9C	5	Medical	1	No	86.1	72.1	29.0	62.0	55.6	—	CCM1010-ND	22.32	20.32	17.19	5EHM1
10D	5	Medical	4	No	98.6	84.3	29.0	74.2	55.6	—	CCM1012-ND	24.48	22.28	18.85	5EHM4
9C	5	Gen. Purpose	1	No	86.1	72.1	29.0	62.0	55.6	—	CCM1020-ND	21.26	19.35	16.38	5EFM1
9D	5	Gen. Purpose	4	No	98.6	84.3	29.0	74.2	55.6	—	CCM1022-ND	25.32	23.05	19.50	5EFM4
Connector Plug for M Series											CCM1665-ND	.86	.79	—	MA101
Insulating Boot for VM/EFM Models fits M4S Versions											CCM1663-ND	4.64	4.23	—	MA601
Insulating Boot for VM/EFM Models fits M1S Versions											CCM1725-ND	4.64	4.23	—	MA602
Insulating Boot for VM/EFM Models fits M4 Versions											CCM1818-ND	4.64	4.23	3.58	MA603

Fig.	Rated Current 125V (Amps)	Output Terminals	Mounting Style	Input Config.	Dimensions – mm				Digi-Key Part No.	Price Each			Corcom Part No.
					A	B	C	D		1	25	100	
SR Series — AC Connector													
11	15	PC Terminals	Flange	Male	50.01	40.01	28.19	26.70	CCM1400-ND	2.42	2.21	1.87	6ESRM-P
	15	Quick Disconnect	Flange	Male	50.22	40.01	22.76	31.09	CCM1401-ND	1.82	1.66	1.41	6ESRM-3
	15	Quick Disconnect	Snap-In	Male	30.40	—	22.66	30.61	CCM1402-ND	1.92	1.75	1.48	6ESRMC2
	15	Quick Disconnect	Snap-In	Female	35.31	—	28.19	35.71	CCM1403-ND	2.22	2.03	1.71	6ESRFC3
	15	Quick Disconnect	Flange	Female	50.01	40.01	29.31	35.71	CCM1404-ND	2.22	2.03	1.71	6ESRF-3

◊ Unfiltered § (-1 Models) Utilizes 1 5x20 fuse † (-2 Models) Utilizes 2 5x20 fuses ★ Pre-connected terminals

Fig. 6

P Series — *See chart for part number break down*

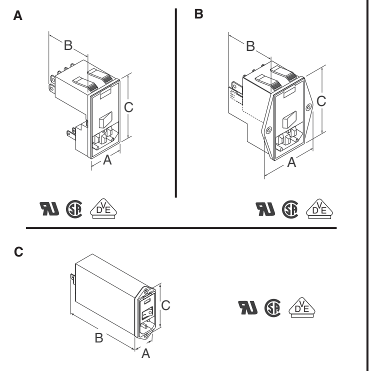

Fig. 7

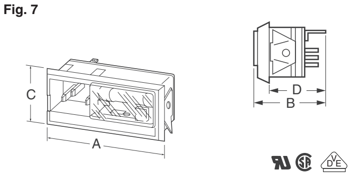

Fig. 8

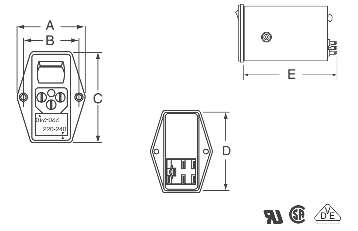

Fig. 9

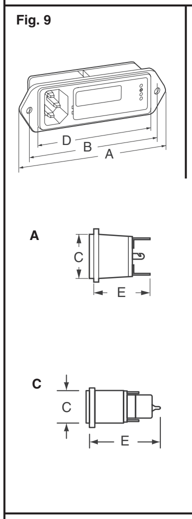

Fig. 10

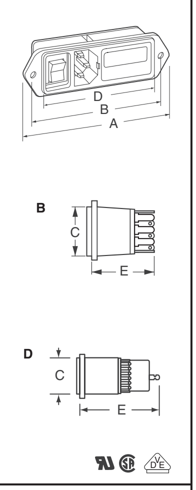

Fig. 11

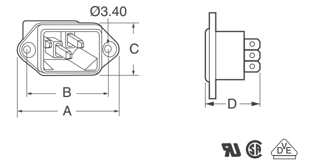

Tyco Electronics
Authorized Distributor

Corcom RF Line Filters

3 Phase RFI Filters

RoHS COMPLIANT

A Series: The 3-phase filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus the neutral and ground line **AYO Series:** The AYO series filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus neutral. These lower current RFI filters provide filtering to industrial 3-phase applications. **BCF Series:** The 3-phase filters are designed for universal applications where reduced size is critical. It is ideal for all industrial 3-phase applications requiring very high attenuation in the frequency range between 100kHz ~ 30MHz.

Fig.	Rated Current (Amps)	Termination	Dimensions – mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
A Series — High Performance 3-Phase RFI Line Filter												
1	30	Single Stage Stud	224.0	141.5	65.0	117.2	38.1	CCM1727-ND	261.94	238.37	201.70	30AYP6C
	60	Single Stage Stud	239.5	175.8	122.4	151.1	95.3	CCM1736-ND	356.10	324.06	274.20	60AYP6C
	60	Dual Stage Stud	351.3	175.8	122.4	151.1	95.3	CCM1730-ND	517.72	471.13	398.65	60AYT6C
AYO Series — Lower Current 3-Phase RFI Filter												
2	20	Faston	85.6	52.5	38.7	74.63	—	CCM1684-ND	35.84	32.62	27.60	20AYO1
BCF Series — Compact 3-Phase RFI Filter												
3	7	Load	190	70	40	160	—	CCM1848-ND	89.46	81.41	68.89	7BCF10
	16	Load	250	70	45	220	—	CCM1849-ND	106.12	96.57	81.72	16BCF10
	30	Load	270	85	50	240	—	CCM1850-ND	142.86	130.01	110.01	30BCF10
	42	Load	310	85	50	280	—	CCM1851-ND	166.76	151.76	128.41	42BCF10
	55	Load	250	90	85	220	—	CCM1852-ND	181.52	165.19	139.78	55BCF10
	75	Load	270	135	80	240	—	CCM1853-ND	310.30	282.38	238.94	75BCF10

Fig. 1

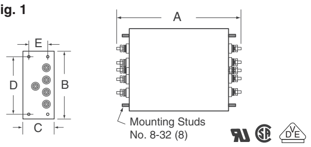

Fig. 2

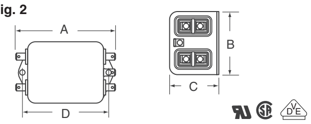

Fig. 3

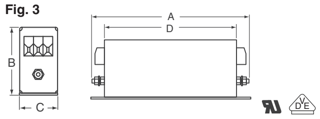

General Purpose RFI Filters

RoHS COMPLIANT

B Series: These general purpose common-mode RFI power line filters effectively provide RFI control of line-to-ground noise in a small size at a low cost.
DK Series: The DK series RFI power line filters are general purpose common mode and differential mode filters with higher performance line-to-line attenuation than the VK series.
EMC Series: The EMC series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with the requirements of CISPR in Europe and the FCC specifications in the USA. The EMC series was designed to address the need for more differential mode attenuation in the lower frequency range while still maintaining high common mode performance. This type of performance is typically needed for motor drives and switch mode power supplies with increased operating frequencies.
EP/VP Series: The EP/VP series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with requirements of CISPAR in Europe and the FCC specifications in the USA.
FC Series: The FC filters provide filtering for frequency inverters and variable speed motor drives. Designed for very noisy applications, they attenuate conducted interference at low and high frequency ranges and protect programmable logic controllers from RF noise on the AC power line.
G Series: The G series RFI filters are designed to provide excellent common-mode and differential-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 20kHz ~ 30MHz.
K Series: These power line filters are general purpose common-mode and differential-mode filters. They are effective in the control of line-to-line as well as line-to-ground RFI interference. They are particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present.
N Series: The N series RFI filters are designed to provide superior common-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 10kHz ~ 30MHz.
Q Series: A series of RFI power line filters that has been developed specifically for switching power supplies and is designed to be all the power line filtering needed to control conducted emissions all the way down to 10kHz.
R Series: These dual T section RFI power line filters provide premium performance at a moderate cost. They are well suited for low impedance loads where noisy RFI environments are present. They control pulsed, continuous and/or intermittent interference, insuring protection of your equipment from line power noise in addition to protecting the line from equipment noise.
RK Series: The RK Series filters are compact, single stage, chassis mount filters that provide significant differential mode performance ideal for industrial machinery equipment. Low input leakage current makes this series suitable for portable equipment.
S Series: The S series of RFI power line filters combines successful line-to-ground interference rejection filters with additional circuitry designed to reduce line-to-line noise and transients.
SK Series: This series of RFI power line filters was designed to reduce conducted noise to acceptable limits for equipment that must comply with the FCC specifications in the USA and CISPAR specifications in Europe.
T Series: These RFI power line filters provide superior common-mode and premium differential-mode attenuation, exceeded only by that of Q series filters.
U Series: The U series was designed to meet the RFI needs created by power factor corrected power supplies. This high performance filter offers a high impedance circuit to mismatch the power supply's impedance characteristics.
V and W Series: These RFI power line filters will protect equipment from malfunctions due to conducted interference coming into the equipment from the line, especially line-to-line noise and transients. The W series has a two-stage construction that provides excellent suppression at high frequency.

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
B Series — RFI Power Line Filter for High Impedance Loads												
1	1	Faston	57.2	46.2	16.8	53.98	64.3	CCM1300-ND	10.92	9.94	8.41	1VB1
	2	Faston	57.2	46.2	16.8	53.98	64.3	CCM1301-ND	9.84	8.96	7.58	2VB1
	3	Faston	66.3	46.2	19.8	53.98	64.3	CCM1302-ND	11.36	10.34	8.75	3VB1
	5	Faston	66.3	46.2	19.8	53.98	64.3	CCM1303-ND	10.52	9.58	8.11	5VB1
	10	Faston	66.3	46.2	29.5	53.98	64.3	CCM1304-ND	11.74	10.69	9.04	10VB1
	5	Faston	66.3	46.2	19.8	53.98	64.3	CCM1762-ND	11.88	10.82	9.15	5EB1
	20	Faston	85.3	52.6	29.5	60.33	71.4	CCM1634-ND	18.20	16.57	14.02	20EB1
	20	Faston	85.3	52.6	29.5	60.33	71.4	CCM1305-ND	18.04	16.42	13.90	20VB1
2	10	Stud	69.1	46.2	29.5	53.98	64.3	CCM1320-ND	14.72	13.40	11.34	10VB6
	20	Stud	87.9	52.6	29.5	60.33	71.4	CCM1321-ND	21.44	19.52	16.51	20VB6
3	30	Stud	135.6	85.9	38.9	95.3	106.7	CCM1322-ND	40.94	37.26	31.53	30VB6
4	1	Wire Lead	24.4	46.2	16.8	53.98	64.3	CCM1310-ND	11.64	10.60	8.97	1VB3
	2	Wire Lead	24.4	46.2	16.8	53.98	64.3	CCM1311-ND	10.60	9.65	8.17	2VB3
	3	Wire Lead	33.5	46.2	19.8	53.98	64.3	CCM1312-ND	12.10	11.02	9.32	3VB3
	5	Wire Lead	33.5	46.2	19.8	53.98	64.3	CCM1313-ND	11.14	10.14	8.58	5VB3
	10	Wire Lead	33.5	46.2	29.5	53.98	64.3	CCM1314-ND	12.28	11.18	9.46	10VB3
DK Series — Enhanced Performance RFI Power Line Filters												
5	20	Faston	97.8	65.5	45.2	74.63	85.1	CCM1686-ND	36.02	32.78	27.74	20VDK1
	20	Stud	87.9	65.5	45.2	74.63	85.1	CCM1748-ND	36.02	32.78	27.74	20VDK6
EMC Series — Compact Dual Stage RFI Filters												
6	3	Faston	85.1	46.0	29.5	60.3	—	CCM1738-ND	16.28	14.82	12.54	3EMC1
	10	Faston	97.8	52.6	38.91	74.6	—	CCM1741-ND	17.20	15.66	13.25	10EMC1
EP/VP Series — Line Filter For Switching Power Supply Noise Suppression												
6	3	Faston	97.8	52.6	45.2	74.63	—	CCM1619-ND	26.96	24.54	20.76	3EP1
	10	Faston	168.1	52.6	70.6	142.88	—	CCM1644-ND	61.06	55.57	47.02	10EP1
	20	Faston	125.7	57.7	45.7	103.2	—	CCM1685-ND	49.14	44.72	37.84	20EP1
7	10	Wire Lead	135.9	52.6	70.6	142.88	—	CCM1749-ND	61.06	55.57	47.02	10EP3
8	20	Stud	127.3	57.2	45.2	103.2	—	CCM1827-ND	52.76	48.02	40.63	20EP6
	20	Stud	127.3	57.2	45.2	103.2	—	CCM1765-ND	52.76	48.02	40.63	20VP6
FC Series — Single Phase External Power Line Filter for Frequency Converters												
9	25	DIN Type	175.3	139.2	64.77	124.5	70.0	CCM1763-ND	113.54	103.33	87.43	25FC10
G Series — High Performance RFI Filter for Switching Power Supplies												
10A	6	Faston	90.4	54.6	39.6	74.63	—	CCM1744-ND	33.30	30.31	25.65	6EG1
K Series — RFI Power Line Filters for High Impedance Load												
1	1	Faston	78.7	52.6	23.1	60.33	71.4	CCM1683-ND	14.62	13.31	11.26	1VK1
	2	Faston	78.7	52.6	23.1	60.33	71.4	CCM1627-ND	12.56	11.43	9.68	2VK1
	3	Faston	78.7	52.6	29.5	60.33	71.4	CCM1618-ND	14.92	13.58	11.49	3VK1
	5	Faston	78.7	52.6	29.5	60.33	71.4	CCM1613-ND	12.80	11.65	9.86	5VK1
	10	Faston	85.1	52.6	29.5	60.33	71.4	CCM1641-ND	13.50	12.29	10.40	10VK1
	20	Faston	85.1	65.0	38.9	74.63	85.1	CCM1632-ND	20.12	18.31	15.50	20VK1
	5	Faston	78.7	52.6	29.5	60.33	71.4	CCM1757-ND	14.36	13.07	11.06	5EK1
	20	Faston	85.1	65.0	38.9	74.63	85.1	CCM1633-ND	20.34	18.51	15.67	20EK1
2	20	Stud	87.9	65.0	38.9	74.63	85.1	CCM1631-ND	23.30	21.21	17.95	20VK6
	30	Stud	135.6	85.9	38.9	95.25	106.7	CCM1625-ND	43.64	39.72	33.61	30VK6

Fig. 1

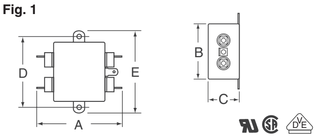

Fig. 2

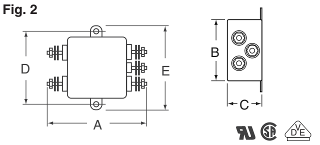

Fig. 3

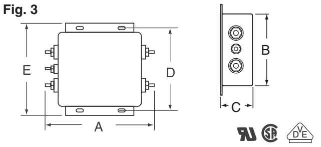

Fig. 4

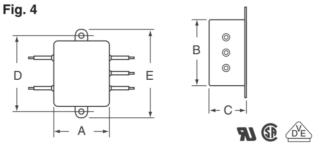

Fig. 5

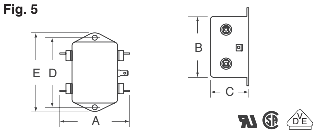

Fig. 6

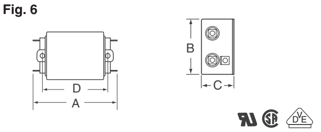

(Continued)

Corcom RF Line Filters
General Purpose RFI Filters *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
4	2	Wire Lead	46.0	52.6	23.1	60.33	71.4	CCM1626-ND	13.56	12.34	10.45	2VK3
	3	Wire Lead	46.0	52.6	29.5	60.33	71.4	CCM1697-ND	15.42	14.04	11.88	3VK3
	5	Wire Lead	46.0	52.6	29.5	60.33	71.4	CCM1612-ND	14.40	13.11	11.09	5VK3
	10	Wire Lead	52.6	52.6	29.5	60.33	71.4	CCM1674-ND	14.22	12.95	10.95	10VK3
	10	Stud	87.9	52.6	29.5	60.33	71.4	CCM1820-ND	15.96	14.53	12.29	10VK6
N Series — High Performance Line Filter for Switching Power Supplies												
10A	6	Faston	90.4	54.6	45.9	74.63	—	CCM1713-ND	40.34	36.71	31.07	6VN1
	10	Faston	119.1	57.7	45.7	103.2	—	CCM1649-ND	65.68	59.77	50.58	10VN1
Q Series — Line Filters For Switching Power Supply Emissions Down to 10kHz												
6	3	Faston	97.8	52.6	45.2	74.63	—	CCM1651-ND	42.00	38.22	32.34	3EQ1
	6	Faston	126.5	57.7	45.7	103.2	—	CCM1605-ND	60.88	55.41	46.88	6EQ1
	20	Faston	168.1	52.6	57.9	142.9	—	CCM1726-ND	77.80	70.80	59.91	20EQ1
	3	Faston	97.8	52.6	45.2	74.63	—	CCM1728-ND	42.00	38.22	32.34	3VQ1
	20	Faston	168.1	52.6	57.9	142.9	—	CCM1687-ND	77.80	70.80	59.91	20VQ1
11	6	Wire Lead	93.7	57.7	45.7	103.2	113.5	CCM1739-ND	60.88	55.41	46.88	6EQ3
12	6	Wire Lead	138.9	52.6	45.2	40.01	68.0	CCM1751-ND	66.06	60.12	50.87	6EQ8
R Series — 2 Stage General Purpose Line Filters												
3	20	Stud	132.8	85.6	38.9	95.25	106.7	CCM1361-ND	47.60	43.32	36.66	20VR6
6	1	Faston	85.1	46.0	29.5	60.33	—	CCM1330-ND	19.94	18.15	15.36	1VR1
	2	Faston	85.1	46.0	29.5	60.33	—	CCM1331-ND	18.06	16.44	13.91	2VR1
	3	Faston	97.8	52.6	29.5	74.63	—	CCM1332-ND	19.38	17.64	14.93	3VR1
	5	Faston	97.8	52.6	29.5	74.63	—	CCM1333-ND	18.22	16.59	14.03	5VR1
	10	Faston	97.8	52.6	38.9	74.63	—	CCM1769-ND	22.02	20.04	16.96	10ER1
	10	Faston	97.8	52.6	38.9	74.63	—	CCM1334-ND	19.12	17.40	14.73	10VR1
	20	Faston	132.8	85.6	38.9	95.25	—	CCM1335-ND	46.38	42.21	35.72	20VR1
7	2	Wire Lead	52.6	46.0	29.5	60.33	—	CCM1341-ND	19.96	18.17	15.37	2VR3
	3	Wire Lead	65.0	52.6	29.5	74.63	—	CCM1342-ND	20.68	18.82	15.93	3VR3
	5	Wire Lead	65.0	52.6	29.5	74.63	—	CCM1343-ND	20.12	18.31	15.50	5VR3
	10	Wire Lead	65.0	52.6	38.9	74.63	—	CCM1344-ND	19.76	17.99	15.22	10VR3
8	10	Stud	100.6	52.6	38.9	74.63	—	CCM1360-ND	22.68	20.64	17.47	10VR6
10B	1	Wire Lead	52.6	46.0	29.5	60.33	—	CCM1340-ND	21.06	19.17	16.22	1VR3
13	5	Faston	110.0	57.2	32.5	40.01	16.3	CCM1351-ND	21.10	19.21	16.25	5VR7
14	20	Faston	132.8	85.6	38.9	95.25	106.7	CCM1752-ND	46.38	42.21	35.72	20ER1
RK Series												
10C	3	Faston	85.09	25.4	29.46	60.33	—	CCM1869-ND	22.48	20.46	17.31	3ERK1
	6	Faston	85.09	25.4	32.51	60.33	—	CCM1870-ND	24.90	22.66	19.18	6ERK1
	10	Faston	97.8	25.4	45.2	74.63	—	CCM1845-ND	28.16	25.63	21.69	10ERK1
	15	Faston	97.8	25.4	45.2	74.63	—	CCM1846-ND	32.38	29.47	24.94	15ERK1
	20	Faston	97.8	25.4	45.2	74.63	—	CCM1847-ND	37.24	33.89	28.68	20ERK1
S Series — Line Filter For Emission Control												
6	3	Faston	85.30	46.20	29.50	60.33	—	CCM1617-ND	23.74	21.61	18.28	3VS1
	6	Faston	98.00	52.80	38.90	74.63	—	CCM1603-ND	23.74	21.61	18.28	6VS1
	10	Faston	98.00	52.80	38.90	74.63	—	CCM1640-ND	27.94	25.43	21.52	10VS1
14	20	Faston	132.80	85.90	38.90	95.25	106.68	CCM1648-ND	61.78	56.22	47.58	20VS1
15	60	Stud	182.88	78.23	57.91	142.87	158.7	CCM1843-ND	101.32	92.21	78.02	60VS6
SK Series — High Performance RFI Line Filter for SMPS Emission Control												
3	40	Stud	152.4	79.25	55.4	88.9	—	CCM1615-ND	59.90	54.51	46.13	40VSK6
6	3	Faston	97.8	52.6	29.5	74.63	—	CCM1823-ND	27.32	24.87	21.04	3VSK1
	6	Faston	110.2	57.2	32.5	87.05	—	CCM1709-ND	32.00	29.12	24.64	6ESK1
	6	Faston	110.2	57.2	32.5	87.05	—	CCM1732-ND	32.00	29.12	24.64	6VSK1
	10	Faston	126.2	57.2	45.2	103.2	—	CCM1729-ND	37.30	33.95	28.73	10VSK1
8	20	Stud	127.3	57.2	45.2	103.2	—	CCM1630-ND	44.98	40.94	34.64	20VSK6
	20	Stud	127.3	57.2	45.2	103.2	—	CCM1746-ND	44.98	40.94	34.64	20ESK6
13	6	Faston	81.5	57.2	45.2	40.01	16.0	CCM1714-ND	35.72	32.51	27.51	6VSK7
	10	Faston	110.0	57.2	45.2	40.01	16.0	CCM1675-ND	41.04	37.35	31.61	10VSK7
16	30	Stud	125.0	79.25	69.85	87.3	101.6	CCM1688-ND	54.08	49.22	41.65	30ESK6
	30	Stud	125.0	79.25	69.85	87.3	101.6	CCM1624-ND	54.08	49.22	41.65	30VSK6
17	30	Stud	125.0	79.25	69.85	87.3	101.6	CCM1734-ND	68.40	62.25	52.67	30VSK6C
T Series — High Performance Line Filter For Switching Power Supplies												
3	15	Stud	151.1	79.2	55.4	88.9	100.6	CCM1678-ND	72.76	66.22	56.03	15ET6
6	6	Faston	90.4	54.6	46.0	74.63	—	CCM1604-ND	36.44	33.17	28.06	6ET1
	10	Faston	119.1	57.7	45.7	103.2	—	CCM1643-ND	48.42	44.07	37.29	10ET1
	10	Faston	119.1	57.7	45.7	103.2	—	CCM1639-ND	52.66	47.93	40.55	10VT1
11	6	Wire Lead	64.8	54.6	46.0	74.63	—	CCM1710-ND	36.44	33.17	28.06	6ET3
	10	Wire Lead	93.7	57.7	45.7	103.2	—	CCM1754-ND	52.66	47.93	40.55	10ET3
13	6	Faston	89.4	57.2	45.2	40.01	16.0	CCM1711-ND	37.46	34.09	28.85	6ET7
18	15	Faston	138.4	79.2	55.4	88.9	—	CCM1635-ND	69.26	63.03	53.34	15ET1
	15	Faston	138.4	79.2	55.4	88.9	—	CCM1679-ND	69.26	63.03	53.34	15VT1
	20	Faston	138.4	79.2	55.4	88.9	—	CCM1764-ND	70.32	64.00	54.15	20VT1
U Series — For Power Factor Corrected Power Supplies												
6	6.5	Faston	125.73	57.66	45.72	103.12	—	CCM1363-ND	49.88	45.40	38.41	6EU1
V Series — Line Filter For Emission Control												
6	6	Faston	98.0	52.8	38.9	74.63	—	CCM1602-ND	26.82	24.41	20.66	6VV1
	10	Faston	98.0	52.8	38.9	74.63	—	CCM1638-ND	30.26	27.54	23.31	10VV1
8	3	Faston	85.3	46.2	32.5	60.33	—	CCM1825-ND	26.82	24.41	20.66	3VV1
14	20	Faston	132.8	85.9	38.9	95.25	106.7	CCM1629-ND	64.64	58.83	49.78	20VV1
W Series — Multipurpose Power Line for Emission Control and High Noise Industrial Environments												
3	20	Stud	135.64	85.9	38.9	95.5	106.7	CCM1747-ND	66.32	60.36	51.07	20VW6
6	3	Faston	85.3	46.2	32.5	60.33	—	CCM1616-ND	28.26	25.72	21.77	3VW1
	6	Faston	98.0	52.8	38.9	74.63	—	CCM1601-ND	28.26	25.72	21.77	6VW1
	10	Faston	98.0	52.8	38.9	74.63	—	CCM1637-ND	32.42	29.51	24.97	10VW1
14	20	Faston	132.8	85.9	38.9	95.25	106.7	CCM1628-ND	66.08	60.14	50.89	20VW1

Fig. 7

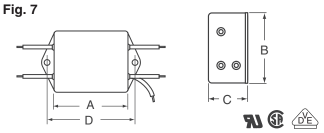

Fig. 8

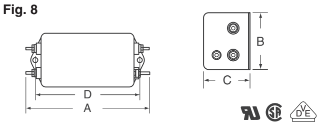

Fig. 9

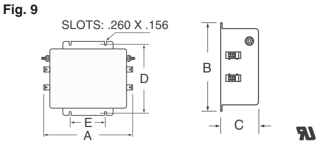

Fig. 10

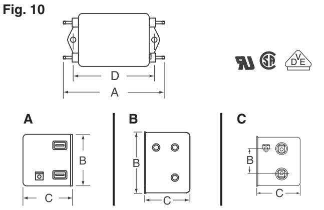

Fig. 11

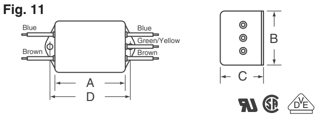

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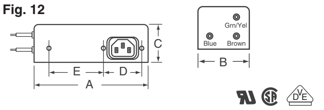

Fig. 13

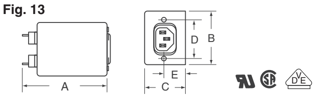

Fig. 14

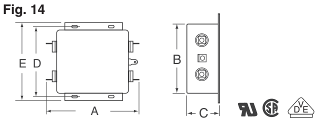

Fig. 15

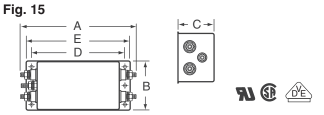

Fig. 16

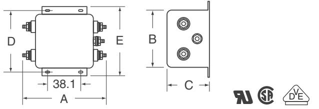

Fig. 17

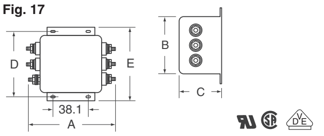

Fig. 18

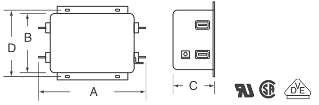

(Continued)

Corcom RF Line Filters *(Cont.)*

Medical Grade Filters

EAH Series: This is a new generation of compact medical RFI filters with an IEC socket. A new design in internal structure and manufacturing process makes the series cost effective. This health care series supersedes the H series by providing superior differential mode performance while still maintaining a maximum leakage current of 2 micro amps.

EBH Series: A compact medical RFI filter with IEC socket, the EBH series is a cost effective alternative to the H series. Electrically the EBH provides enhanced differential mode performance compared to both the EAH and the H series. These filters provide RFI common and differential modes performance while still allowing medical equipment to meet UL leakage current specifications for medical and dental equipment.

EJH Series: The 1 ~ 15 Amp versions are flange mounted and mechanically equivalent to the EAH/EBH series. The performance has been enhanced to meet the needs for more attenuation. It has an improved high frequency EMI shielding and larger contact area for the panel ground. These medical filters are designed to provide common and differential mode performance while maintaining the UL leakage requirements for medical and dental equipment. The EJH series also includes a 20 Amp version that uses the inlet IEC 320/C20.

H Series: The H series was developed specifically for health care applications. These products are suitable for uses in both patient care equipment and non-patient care equipment. Their extremely low leakage current allows compliance with UL2601 and CSA 22.2 health care specifications.

HT Series: This series of power line filters provides superior common-mode and premium differential-mode attenuation to RFI noise on the frequency range from 10kHz ~ 30MHz, for IEC60601 and UL2601 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

HQ Series: The HQ series power line filters provide the highest available common-mode and differential-mode attenuation to RFI noise in the frequency range from 10kHz ~ 30MHz, for IEC 60601 and UL2601 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

MV Series: This series answers the need for a medical filter to help equipment comply with increasing noise sources in medical applications while still meeting leakage current requirements of UL2601.

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
EAH Series — For UL544 Health Care Equipment — RoHS Compliant												
1	6	Faston	54.61	28.45	22.86	40.01	50.29	CCM1700-ND	10.54	9.60	8.12	6EAH1
EBH Series — For UL544 Health Care Equipment — RoHS Compliant												
1	10	Faston	54.61	28.45	22.86	40.01	50.29	CCM1669-ND	13.76	12.53	10.60	10EBH1
EJH Series — Enhanced Performance Compact RFI Filter IEC Connector Package												
1	1	Straight	54.61	30.48	24.38	40.00	51.76	CCM1236-ND◆	8.18	7.45	6.30	1EJH1
	3	Straight	54.61	30.48	24.38	40.00	51.76	CCM1237-ND◆	7.58	6.90	5.84	3EJH1
	6	Straight	54.61	30.48	24.38	40.00	51.76	CCM1238-ND◆	7.10	6.47	5.47	6EJH1
	10	Straight	54.61	30.48	24.38	40.00	51.76	CCM1239-ND◆	7.58	6.90	5.84	10EJH1
	15	Straight	54.61	30.48	24.38	40.00	51.76	CCM1240-ND◆	7.22	6.58	5.56	15EJH1
2	20	Straight	79.38	34.79	29.99	42.01	53.00	CCM1241-ND◆	12.98	11.82	10.00	20EJH1
3	1	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1242-ND◆	8.38	7.63	6.46	1EJH2
	3	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1243-ND	6.72	6.12	5.18	3EJH2
	10	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1245-ND◆	7.16	6.52	5.52	10EJH2
4	1	PCB	39.12	28.70	24.38	40.00	51.76	CCM1247-ND◆	9.72	8.85	7.49	1EJHP
	3	PCB	39.12	28.70	24.38	40.00	51.76	CCM1248-ND◆	8.12	7.39	6.26	3EJHP
	6	PCB	39.12	28.70	24.38	40.00	51.76	CCM1249-ND◆	8.06	7.34	6.21	6EJHP
	10	PCB	39.12	28.70	24.38	40.00	51.76	CCM1250-ND	8.82	8.03	6.80	10EJHP
	15	PCB	45.47	28.70	24.38	40.00	51.76	CCM1251-ND◆	8.76	7.98	6.75	15EJHP
H Series — Line Filters for UL2601 Healthcare Equipment — RoHS Compliant												
5	6	Faston, Straight	55.90	30.20	20.60	40.01	50.3	CCM1607-ND	13.14	11.96	10.12	6EH4
	10	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1671-ND	14.22	12.95	10.95	10EH4
6	3	Faston	57.2	46.1	16.7	53.98	64.2	CCM1758-ND	10.72	9.76	8.26	3EH1
	6	Faston	57.2	46.1	16.7	53.98	64.2	CCM1608-ND	10.84	9.87	8.35	6EH1
	10	Faston	57.2	46.1	16.7	53.98	64.2	CCM1670-ND	11.30	10.29	8.71	10EH1
7	6	Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1706-ND	13.44	12.24	10.35	6EH9
HT Series — High Performance RFI Power Line Filter For Medical Equipment — RoHS Compliant												
8	6	Faston	90.4	54.6	46.0	74.63	—	CCM1606-ND	35.90	32.67	27.65	6EHT1
	10	Faston	119.1	57.7	45.7	103.2	—	CCM1672-ND	53.88	49.04	41.49	10EHT1
9	15	Faston	138.4	79.2	55.4	88.9	—	CCM1821-ND	72.62	66.09	55.92	15EHT1
HQ Series — Highest Performance RFI Filter For Medical Equipment — RoHS Compliant												
8	3	Faston	97.8	52.6	45.2	74.63	—	CCM1695-ND	42.54	38.72	32.76	3EHQ1
10	3	Wire Lead	84.8	52.6	45.2	74.63	—	CCM1826-ND	41.50	37.77	31.96	3EHQ3
MV Series — Multipurpose Medical Filter for Power Line Noise Protection — RoHS Compliant												
8	6	Faston	98.0	52.8	38.9	74.63	—	CCM1712-ND	27.90	25.39	21.49	6MV1
	10	Faston	98.0	52.8	38.9	74.63	—	CCM1642-ND	31.52	28.69	24.28	10MV1
	20	Faston	132.8	85.9	38.9	95.25	—	CCM1824-ND	63.66	57.94	49.02	20MV1

◆ *RoHS Compliant*

Fig. 1

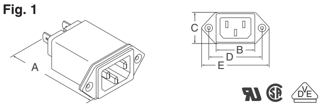

Fig. 2

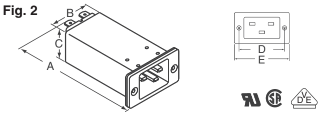

Fig. 3

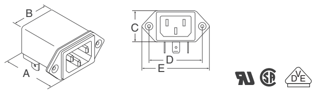

Fig. 4

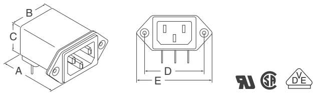

Fig. 5

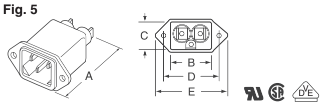

Fig. 6

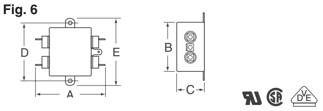

Fig. 7

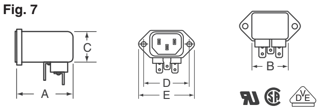

Fig. 8

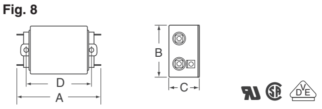

Fig. 9

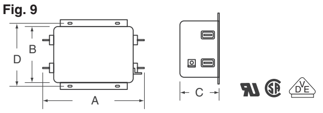

Fig.10

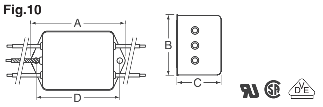

PC Board Mountable Filters

EDP Series: These RFI power line filters provide enhanced differential-mode performance for applications requiring more line-to-line protection. **EOP Series:** A general purpose filter which is effective in removing both common and differential-mode noise for susceptibility applications. **X Series:** This series was designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits. **Z Series:** A design that brings most digital equipment (including switching power supplies) into compliance with EN55022 Level B, (as well as FCC Part 15J, Class B) conducted emission limits.

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
EDP Series — For General Purpose Applications											
1	1	PCB	36.6	31.5	24.15	—	CCM1364-ND	15.38	14.00	11.85	1EDP
	3	PCB	36.6	31.5	24.15	—	CCM1365-ND	14.02	12.76	10.80	3EDP
	10	PCB	36.6	31.5	24.15	—	CCM1742-ND	15.22	13.86	11.72	10EDP
EOP Series — For General Purpose Applications											
1	1	PCB	36.6	31.5	19.9	—	CCM1366-ND	12.64	11.51	9.74	1EOP
	3	PCB	36.6	31.5	19.9	—	CCM1367-ND	11.32	10.31	8.72	3EOP
	10	PCB	36.6	31.5	19.9	—	CCM1673-ND	11.98	10.91	9.23	10EOP
X Series — For Emission Control Applications											
2	3	PCB	66.80	28.7	41.15	—	CCM1370-ND	20.08	18.28	15.47	3EXP
	6	PCB	66.29	28.7	44.45	—	CCM1371-ND	30.96	28.18	23.84	6EXP
Z Series — For Emission Control Applications											
2	1	PCB	66.3	28.7	41.1	—	CCM1682-ND	25.08	22.83	19.32	1EZP
	2	PCB	66.3	28.7	44.4	—	CCM1368-ND	25.02	22.77	19.27	2EZP
	3	PCB	66.3	28.7	44.4	—	CCM1369-ND	25.08	22.83	19.32	3EZP
3	3	Faston	89.9	52.8	33.3	74.63	CCM1696-ND	29.04	26.43	22.37	3EZ1

Fig. 1

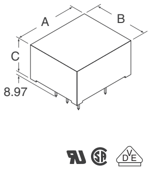

Fig. 2

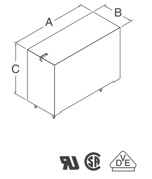

Fig. 3

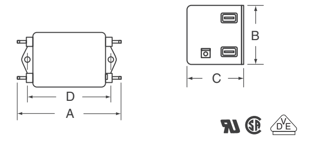

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DC Filters

DA Series:

The DA series filters were designed as general purpose line filters for DC applications up to 125VDC. They are compact with a 3-pin inlet connector. The DA series addresses the increasing need for DC rated filters with a standard DC power inlet. Any internal DC connection within larger multi-component systems, or external DC connection between user installed components which require filtering will benefit.

DB Series:

The DB series power inlet filters are available in four levels of filtering and an unfiltered version, these inlets are designed to accept up to 60A of current at 150VDC (UL/CSA) and 120VDC (TUV) in the filtered versions and 300VAC or DC in the unfiltered version. Filtered versions include the basic clean-up DBJ style through the higher performing DB style and DBX style which provideds up to 68dB insertion loss within the 150kHz ~ 30Mhz frequency range.

DC Series:

The DC series filters were designed as general purpose line filters for DC applications. They are available with or without circuit breakers for extra protection. These filters are generally used in central office equipment like switches, routers, and hubs to clean up the 48VDC power, but are not exclusive to that equipment. They can also be used at the primary input of the DC power supply.

Fig. 1

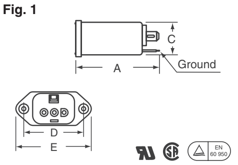

Fig. 2 ***NEW!***

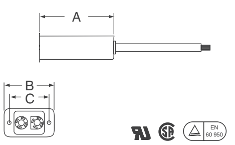

Fig. 3 ***NEW!***

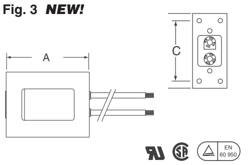

Fig. 4

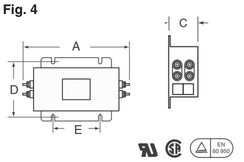

Fig.	Rated Current	Termination	Dimension – mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
DA Series — Compact RFI Filter with DC Inlet Connector												
1	3A @ 120V	Faston	54.61	—	20.57	40.01	50.29	CCM1745-ND	11.22	10.22	8.64	3DAF1
	10A @ 120V	Faston	54.61	—	20.57	40.01	50.29	CCM1743-ND	11.62	10.58	8.95	10DAF1
NEW! DB Series — Compact Connector for High-Current DC Applications NEW!												
2	60A @ 150V	Wire Lead	3.1	2.087	1.654	—	—	CCM1887-ND	48.38	44.03	37.26	60DBJ8
3	60A @ 150V	Wire Lead	3.97	3.1	2.500	—	—	CCM1888-ND	171.58	156.14	132.12	60DB8
	60A @ 150V	Wire Lead	3.97	3.1	2.500	—	—	CCM1889-ND	185.82	169.10	143.09	60DBF8
	60A @ 150V	Wire Lead	5.97	3.5	2.876	—	—	CCM1890-ND	217.82	198.22	167.73	60DBX8
—	Mating Connector Plug Terminated with 1 foot Cable							CCM1883-ND	35.36	32.18	27.23	60DBPL1
	Mating Connector Plug Terminated with 3 foot Cable							CCM1884-ND	59.44	54.10	45.77	60DBPL3
	Receptacle Terminated with 1 foot Cable							CCM1885-ND	31.26	28.45	24.08	60DBRL1
	Receptacle Terminated with 3 foot Cable							CCM1886-ND	55.44	50.46	42.69	60DBRL3
DC Series — RFI Power Line Filters for DC Applications												
4	15A @ 120V	Stud	135.40	78.70	45.20	68.0	50.80	CCM1737-ND	83.92	76.37	64.62	15DCF6
	30A @ 120V	Stud	157.20	100.60	55.40	88.9	50.80	CCM1828-ND	103.66	94.34	79.82	30DCF6

IEC Inlet Line Filters

EAS Series: This filter offers the performance characteristics of the EEA susceptibility filter with the additional advantage of a snap-in panel mount. The EAS series supersedes the EF series by providing superior performance, particularly in the common mode at low frequencies.

EBF Series: The EBF accessory outlet filters provides an innovative means of connecting accessories while filtering noise between a system and the accessories attached. These filters provide enhanced performance utilizing common mode inductance and differential mode capacitance for enhanced attenuation of noise across the frequency range. The filtered connector offers the additional advantage of a grounded connection and features low leakage current required for international usage.

EBS Series: This filter offers the performance characteristics of the EEB susceptibility filter with the additional advantage of a snap-in panel mount.

EC Series: This series of filtered power entry modules provides the highest attenuation of any standard filter available in a package size limited by the dimensions of the integral IEC connector. These filters combine high common-mode inductance with high differential-mode capacitance and minimal parasitic elements, for effective attenuation of line-to-ground and line-to-line noise across the frequency range.

ED Series: These filtered power entry modules are more effective than general purpose filters in applications where line-to-line and low frequency line-to-ground noise must be controlled.

EEA Series: A new design in both the internal structure and manufacturing process makes this series cost effective and compact.

EEB Series: This is a compact RFI filter with IEC socket. A new design in both the internal structure and manufacturing process makes this series cost effective and compact. Electrically, the EEB provides enhanced differential mode performance compared to both the EEA and EF series. Mechanically, its slimmer size makes it compatible with all similar filters on the market.

EEJ Series: The 1 ~ 15 Amp versions are snap-in mounted and mechanically equivalent to the EEA/EEB series. The performance has been enhanced to meet the needs for more attenuation. It also has an extended metal flange around the socket for improved high frequency EMI shielding. The EEJ series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EF Series: This rugged international series of filtered power entry modules incorporates the special IEC power line connector. They are UL recognized, CSA certified, and VDE and SEV approved. Models with F suffix are SEMKO approved and comply with BSI standards.

EJS Series: The 1 ~ 15 Amp versions are snap-in mounted and mechanically equivalent to the EAS/EBS series. The performance has been enhanced to meet the needs for more attenuation. It has improved high frequency EMI shielding. The EJS series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EJT Series: The EJT Series is a power inlet filter designed to attenuate noise up to 1 GHz. This inlet uses an IEC 320/C14 input connector. This product was designed to address the demand for more noise attenuation at higher frequencies in a compact inlet.

SRB Series: The SRB series is one of the smallest depth available on the market, it features a complete shield design with various capacitance values. The SRB series is rated up to 15A, 250VAC, 10A VDE. This product is ideally suited for power supplies or other applications which require a minimum depth low cost solution.

SRB Series (Slide-in Mount): This addition to the SRB Series filter features a unique, panel mounting option. This new "slide-in" mounting approach provides a simple, cost-effective installation method, reducing the need for additional mounting hardware.

Fig. 1

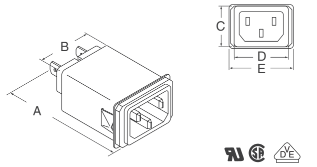

Fig. 2

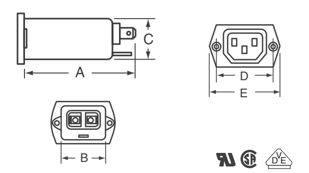

Fig. 3

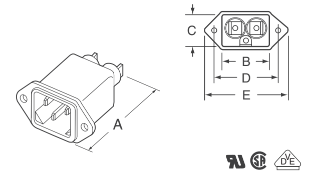

Fig. 4

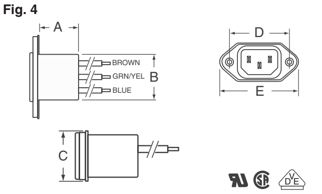

Fig. 5

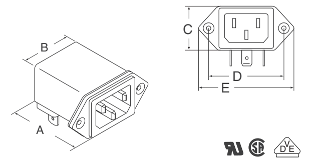

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
EAS Series — Snap-In Compact RFI Filter — RoHS Compliant												
1	3	Faston	55.88	29.2	24.38	29.97	35.81	CCM1691-ND	9.58	8.72	7.38	3EAS1
	6	Faston	55.88	29.2	24.38	29.97	35.81	CCM1701-ND	8.98	8.18	6.92	6EAS1
EBF Series — Accessory Outlet Filter — RoHS Compliant												
2	6	Faston	65.3	33.8	25.4	40.01	50.5	CCM1702-ND	12.96	11.80	9.98	6EBF1
EBS Series — Snap-In Compact RFI Filter — RoHS Compliant												
1	6	Faston, Straight	55.88	29.2	24.38	30.10	34.21	CCM1761-ND	11.42	10.40	8.80	6EBS1
EC Series — High Performance RFI Filter with IEC Connector — RoHS Compliant												
3	1	Faston, Straight	66.5	30.2	20.6	40.1	50.3	CCM1680-ND	17.96	16.35	13.83	1EC1
	3	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1623-ND	17.96	16.35	13.83	3EC1
	6	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1611-ND	17.96	16.35	13.83	6EC1
	10	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1646-ND	18.92	17.22	14.57	10EC1
ED Series — High Performance RFI Power Line Filters with IEC Connectors												
3	1	Faston, Straight	56.0	30.2	20.6	40.01	50.3	CCM1203-ND◆	13.22	12.04	10.18	1ED1
	3	Faston, Straight	56.0	30.2	20.6	40.01	50.3	CCM1204-ND	13.22	12.04	10.18	3ED1
	6	Faston, Straight	56.0	30.2	20.6	40.01	50.3	CCM1205-ND◆	13.22	12.04	10.18	6ED1
	10	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1206-ND◆	13.64	12.42	10.51	10ED1
	15	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1676-ND◆	14.52	13.22	11.19	15ED1
	6	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1216-ND◆	16.64	15.15	12.82	6ED1C
	10	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1219-ND◆	18.04	16.42	13.90	10ED1C
4	3	Wire Lead, Straight	39.4	30.2	20.6	40.01	50.3	CCM1214-ND◆	13.10	11.93	10.09	3ED8
	6	Wire Lead, Straight	39.4	30.2	20.6	40.01	50.3	CCM1215-ND◆	13.22	12.04	10.18	6ED8
	15	Wire Lead, Straight	50.3	30.2	20.6	40.01	50.3	CCM1677-ND◆	14.52	13.22	11.19	15ED8
	6	Wire Lead, Straight	50.3	30.2	20.6	40.01	50.3	CCM1218-ND◆	16.78	15.27	12.93	6ED8C
5	3	Wire Lead, Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1211-ND◆	13.22	12.04	10.18	3ED4
	6	Faston, Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1209-ND◆	13.22	12.04	10.18	6ED2
EEA Series — Compact RFI Filter IEC Connector Package — RoHS Compliant												
6	3	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1622-ND	8.90	8.10	6.86	3EEA1
	6	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1610-ND	8.22	7.49	6.33	6EEA1
	10	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1645-ND	9.06	8.25	6.98	10EEA1
	15	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1766-ND	10.22	9.31	7.87	15EEA1
7	6	Faston, Right Angle	39.1	28.4	20.6	40.01	50.3	CCM1703-ND	9.74	8.87	7.50	6EEAP

◆ ***RoHS Compliant*** † 1250W, 10A ~ 125VAC SVT, Black, UL, CSA. Not recommended for patient care applications due to leakage current of the line cord.

(Continued)

Corcom RF Line Filters

IEC Inlet Line Filters *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimension – mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
EEB Series — Compact RFI Filter IEC Connector Package — RoHS Compliant												
6	3	Faston	54.6	28.4	20.6	40.01	50.3	CCM1829-ND	11.46	10.43	8.83	3EEB1
	10	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1740-ND	11.54	10.51	8.89	10EEB1
7	1	Faston, Right Angle	39.1	28.4	20.6	40.01	50.3	CCM1768-ND	14.50	13.20	11.17	1EEBP
EEJ Series — Enhanced Performance Compact RFI Filter IEC Connector Package												
5	1	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1226-ND	8.96	8.16	6.90	1EEJ2
	3	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1227-ND◆	7.36	6.70	5.67	3EEJ2
	6	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1228-ND◆	6.84	6.23	5.27	6EEJ2
	15	Right Angle	45.47	28.70	24.38	40.00	51.76	CCM1230-ND◆	7.58	6.90	5.84	15EEJ2
6	1	Straight	54.61	30.48	24.38	40.00	51.76	CCM1220-ND◆	8.34	7.59	6.43	1EEJ1
	3	Straight	54.61	30.48	24.38	40.00	51.76	CCM1221-ND◆	6.74	6.14	5.19	3EEJ1
	6	Straight	54.61	30.48	24.38	40.00	51.76	CCM1222-ND◆	6.30	5.74	4.86	6EEJ1
	10	Straight	54.61	30.48	24.38	40.00	51.76	CCM1223-ND◆	6.84	6.23	5.27	10EEJ1
	15	Straight	54.61	30.48	24.38	40.00	51.76	CCM1224-ND◆	7.42	6.76	5.72	15EEJ1
7	1	PCB	39.12	28.70	24.38	40.00	51.76	CCM1231-ND◆	9.98	9.09	7.69	1EEJP
	3	PCB	39.12	28.70	24.38	40.00	51.76	CCM1232-ND◆	7.94	7.23	6.12	3EEJP
	6	PCB	39.12	28.70	24.38	40.00	51.76	CCM1233-ND◆	7.38	6.72	5.69	6EEJP
	10	PCB	39.12	28.70	24.38	40.00	51.76	CCM1234-ND	7.94	7.23	6.12	10EEJP
	15	PCB	45.47	28.70	24.38	40.00	51.76	CCM1235-ND◆	9.02	8.21	6.95	15EEJP
8	20	Straight	79.38	34.79	29.99	42.01	53.00	CCM1225-ND◆	12.18	11.09	9.38	20EEJ1
EF Series — Compact RFI Filter IEC Connector — RoHS Compliant												
3	1	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1100-ND	11.02	10.03	8.49	1EF1F
	3	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1101-ND	11.02	10.03	8.49	3EF1F
	6	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1102-ND	11.02	10.03	8.49	6EF1F
	10	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1103-ND	11.20	10.20	8.63	10EF1F
	3	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1621-ND	13.20	12.02	10.17	3EF1
	6	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1609-ND	13.66	12.44	10.52	6EF1
	15	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1636-ND	16.30	14.84	12.56	15EF1F
4	6	Wire Lead, Straight	39.4	30.2	20.6	40.01	50.3	CCM1704-ND	10.68	9.72	8.23	6EF8
EJS Series — Enhanced Performance Snap-In Compact RFI Filter IEC Connector Package												
1	1	Straight	55.88	27.94	24.38	30.10	34.21	CCM1252-ND	9.06	8.25	6.98	1EJS1
	3	Straight	55.88	27.94	24.38	30.10	34.21	CCM1253-ND◆	7.48	6.81	5.76	3EJS1
	6	Straight	55.88	27.94	24.38	30.10	34.21	CCM1254-ND◆	7.00	6.37	5.39	6EJS1
	10	Straight	55.88	27.94	24.38	30.10	34.21	CCM1255-ND	7.54	6.87	5.81	10EJS1
	15	Straight	55.88	27.94	24.38	30.10	34.21	CCM1256-ND◆	7.56	6.88	5.83	15EJS1
9	20	Straight	79.38	34.29	29.99	37.08	36.07	CCM1257-ND◆	14.98	13.64	11.54	20EJS1
EJT1 Series — Compact RFI Filter For Higher Frequency Applications												
10	1A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1652-ND◆	13.84	12.60	10.66	1EJT1
	3A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1653-ND◆	13.80	12.56	10.63	3EJT1
	6A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1654-ND	13.78	12.54	10.62	6EJT1
	10A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1655-ND◆	13.84	12.60	10.66	10EJT1
	15A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1656-ND◆	14.04	12.78	10.82	15EJT1
EJT8 Series — Compact RFI Filter For Higher Frequency Applications— RoHS Compliant												
4	3A	Wire Lead	56.6	30.2	22.2	40.0	50.3	CCM1658-ND	13.20	12.02	10.17	3EJT8
	6A	Wire Lead	56.6	30.2	22.2	40.0	50.3	CCM1659-ND	13.40	12.20	10.32	6EJT8
	10A	Wire Lead	56.6	30.2	22.2	40.0	50.3	CCM1660-ND	13.46	12.25	10.37	10EJT8
	15A	Wire Lead	56.6	30.2	22.2	40.0	50.3	CCM1661-ND	13.66	12.44	10.52	15EJT8

Fig.	Capacitor Value (pF)	Termination	Dimension – mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
SRB Series — 15A, 250VAC, Reduced Footprint, Shielded Line Filter — RoHS Compliant												
4	—	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1773-ND	1.82	1.66	1.41	15SRB8
	33	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1774-ND	4.16	3.79	3.21	15SRB8-Q
	100	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1775-ND	2.04	1.86	1.58	15SRB8-R
	220	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1776-ND	2.04	1.86	1.58	15SRB8-S
	330	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1777-ND	2.08	1.90	1.61	15SRB8-T
	470	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1778-ND	2.10	1.92	1.62	15SRB8-W
	1000	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1779-ND	2.30	2.10	1.78	15SRB8-X
6	—	Faston	44.45	28.70	24.38	40.00	51.76	CCM1770-ND	1.52	1.39	1.18	15SRB1
	33	Faston	44.45	28.70	24.38	40.00	51.76	CCM1771-ND	4.14	3.77	3.19	15SRB1-Q
	3300	Faston	44.45	28.70	24.38	40.00	51.76	CCM1772-ND	2.46	2.24	1.90	15SRB1-Z
	—	Faston	44.45	28.70	24.38	30.10	35.81	CCM1780-ND	1.70	1.55	1.31	15SRBS1
	220	Faston	44.45	28.70	24.38	30.10	35.81	CCM1781-ND	2.10	1.92	1.62	15SRBS1-S
	330	Faston	44.45	28.70	24.38	30.10	35.81	CCM1782-ND	2.14	1.95	1.65	15SRBS1-T
	1000	Faston	44.45	28.70	24.38	30.10	35.81	CCM1783-ND	2.14	1.95	1.65	15SRBS1-X
11	—	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1784-ND	2.04	1.86	1.58	15SRBS8
	33	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1785-ND	4.42	4.03	3.41	15SRBS8-Q
	100	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1786-ND	2.26	2.06	1.75	15SRBS8-R
	470	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1787-ND	2.30	2.10	1.78	15SRBS8-W
	1000	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1788-ND	2.22	2.03	1.71	15SRBS8-X
SRB Series with Slide-in Mounting Style — RoHS Compliant												
12	—	Wire Lead	30.61	28.19	—	—	—	CCM1854-ND	2.44	2.23	1.88	15SRBX8
	33	Wire Lead	30.61	28.19	—	—	—	CCM1855-ND	2.50	2.28	1.93	15SRBX8-Q
	100	Wire Lead	30.61	28.19	—	—	—	CCM1856-ND	2.50	2.28	1.93	15SRBX8-R
	220	Wire Lead	30.61	28.19	—	—	—	CCM1857-ND	2.50	2.28	1.93	15SRBX8-S
	330	Wire Lead	30.61	28.19	—	—	—	CCM1858-ND	2.50	2.28	1.93	15SRBX8-T
	470	Wire Lead	30.61	28.19	—	—	—	CCM1859-ND	2.50	2.28	1.93	15SRBX8-W
	1000	Wire Lead	30.61	28.19	—	—	—	CCM1860-ND	2.50	2.28	1.93	15SRBX8-X
General — RoHS Compliant												
13	7.5', 3 Conductor Line Cord to Mate with Models within Catalog							CCM1819-ND†	9.30	8.47	7.17	GA400

◆ ***RoHS Compliant*** † 1250W, 10A ~ 125VAC SVT, Black, UL, CSA. Not recommended for patient care applications due to leakage current of the line cord.

Fig. 6

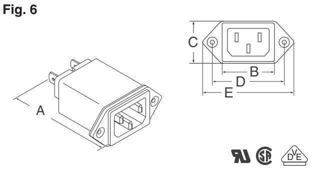

Fig. 7

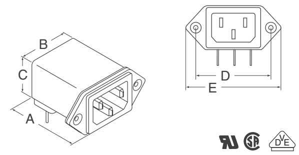

Fig. 8

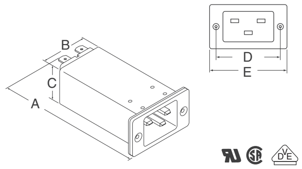

Fig. 9

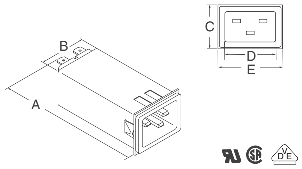

Fig. 10

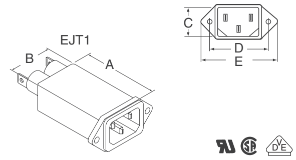

Fig. 11

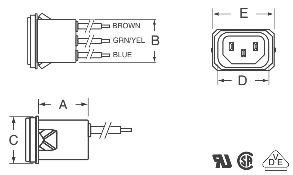

Fig. 12

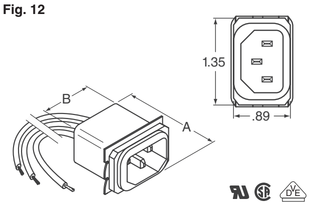

Fig. 13

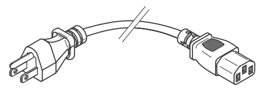

BULGIN IEC Connectors

Fig. 1

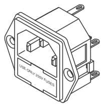

Solder Terminals Shown

Fig. 2

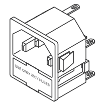

Solder Terminals Shown

Fig. 3

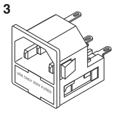

Solder Terminals Shown

Fig. 4

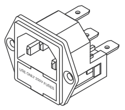

Fig. 5

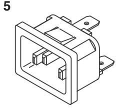

Tab Terminals Shown

Fig. 6

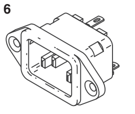

Solder Terminals Shown

Fig. 7

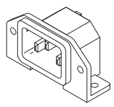

Fig. 8

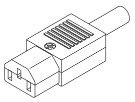

Fig. 9

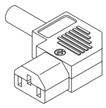

Fig. 10

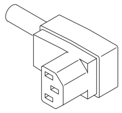

Fig. 11

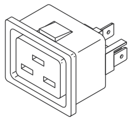

Fig. 12

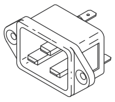

Fig. 13

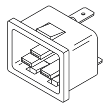

Fig. 14

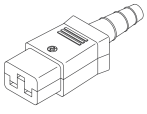

Fig. 15

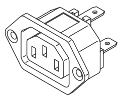

Fig. 16

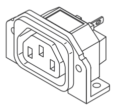

Fig. 17

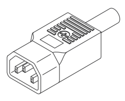

Fig. 18

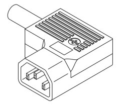

Fig. 19

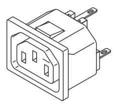

Solder Terminals Shown

Fig. 20

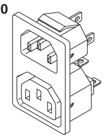

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	Flange Mount, 2.8mm Solder Terminals, Fused Inlet	708-1328-ND	2.83	2.60	2.31	PF0001/28
	Flange Mount, 6.3mm Tab Terminals, Fused Inlet	708-1329-ND	2.88	2.64	2.35	PF0001/63
2	Snap-Fit, 2.8mm Solder Terminals, Single 5x20mm Fuse	708-1330-ND	2.80	2.57	2.29	PF0011/10/28
	Snap-Fit, 2.8mm Solder Terminals, Single 5x20mm Fuse	708-1331-ND	2.80	2.57	2.29	PF0011/15/28
	Snap-Fit, 6.3mm Tab Terminals, Single 5x20mm Fuse	708-1332-ND	2.85	2.62	2.33	PF0011/15/63
3	Flange Mount, 2.8mm Solder Terminals, Twin 5x20mm Fuse	708-1333-ND	4.24	3.89	3.46	PF0033/15/28
	Flange Mount, 6.3mm Tab Terminals, Twin 5x20mm Fuse	708-1334-ND	4.29	3.94	3.50	PF0033/15/63
4	Flange Mount, 6.3mm Tab Terminals, Twin 5x20mm Fuse	708-1458-ND	4.34	3.99	3.55	PF0030/63
5	Snap-Fit, 1mm Panel, 6.3mm Tab Terminals	708-1335-ND	1.51	1.39	1.23	PX0575/10/63
	Snap-Fit, 1.5mm Panel, 2.8mm Solder Terminals	708-1336-ND	1.46	1.34	1.20	PX0575/15/28
	Snap-Fit, 1.5mm Panel, 4.8mm Tab Terminals	708-1337-ND	1.51	1.39	1.23	PX0575/15/48
	Snap-Fit, 1.5mm Panel, 6.3mm Tab Terminals	708-1338-ND	1.51	1.39	1.23	PX0575/15/63
6	Flange Mount, 2.8mm Solder Terminals	708-1339-ND	1.51	1.39	1.23	PX0580/28
	Flange Mount, 6.3mm Tab Terminals	708-1340-ND	1.51	1.39	1.23	PX0580/63
7	Plug, Rear Mount, PCB Terminals	708-1341-ND	1.63	1.50	1.33	PX0580/PC
8	Female Connector, Straight, Screw Terminals	708-1342-ND	3.21	2.95	2.62	PX0587
9	Female Connector, Side Entry, Screw Terminals	708-1343-ND	3.83	3.51	3.12	PX0587/SE

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
10	Female Connector, Side Entry, R/A, Screw Terminals	708-1344-ND	4.64	4.26	3.79	PX0588
11	Snap-Fit Recept., 1.5mm Panel, 6.3mm Tab Terminals	708-1345-ND	3.33	3.09	2.73	PX0592/15/63
12	Flange Mount Plug, 4.8mm Tab Terminals	708-1346-ND	2.22	2.04	1.81	PX0596/48
	Flange Mount Plug, 6.3mm Tab Terminals	708-1347-ND	2.22	2.04	1.81	PX0596/63
13	Snap-Fit Plug, 1.5mm Panel, 6.3mm Tab Terminals	708-1348-ND	2.22	2.04	1.81	PX0598/15/63
14	Female Cable Connector, Straight, Screw Terminals	708-1349-ND	7.08	6.51	5.78	PX0599
15	Flange Mount Receptacle, 6.3mm Tab Terminals	708-1350-ND	1.57	1.44	1.28	PX0675/63
16	Receptacle, Rear Flange Mount PCB Terminals	708-1351-ND	1.75	1.60	1.43	PX0675/PC
17	Male Connector, Straight, Screw Terminals	708-1352-ND	3.84	3.53	3.13	PX0686
18	Male Connector, Side Entry, Screw Terminals	708-1353-ND	4.20	3.86	3.43	PX0686/SE
19	Snap-Fit Recept., 1.5mm Panel, 2.8mm Solder Terminals	708-1354-ND	1.69	1.55	1.38	PX0695/15/28
	Snap-Fit Recept., 1.5mm Panel, 6.3mm Tab Terminals	708-1355-ND	1.69	1.55	1.38	PX0695/15/63
20	Snap-Fit Plug/Receptacle, 4.8mm Tab Terminals	708-1356-ND	3.00	2.78	2.45	PX0716/48
—	Insulation Boot, Black	708-1324-ND	.64	.58	.52	11328
	Blanking Cover for Outlet Connectors, Black	708-1325-ND	1.08	1.00	.89	14228
	Retaining Clip for Flanged Receptacle Connectors	708-1326-ND	2.74	2.52	2.24	KT0006
	Retaining Clip for PX0596/xx and PX0599	708-1327-ND	5.67	5.21	4.63	KT0012

Curtis Industries Power Line Filters

Curtis Industries is recognized as a leader in RFI Power Line Filters with over 75 years of bringing products, including EMI Power Line Filters to the market place.

Curtis offers a wide range of EMI filters, including: • AC single phase, general purpose, high performance and medical grade filters • AC three phase with a range up to 600A at 600V • DC including general and high performance in a small enclosure • Power Entry Modules including IEC type • RFI/EMI Conducted Emissions Testing in accordance with FCC and CE standards

Curtis' focus is in five key areas, Customer Satisfaction, Design Engineering, Manufacturing, Quality and On-Time Delivery, using the latest technologies in each process.

Note: *For Safety, EMI Certifications and additional technical information, please see Digi-Key website for data sheets.*

Fig. 1

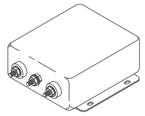

Fig. 2

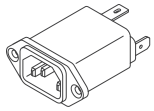

Fig. 3

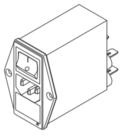

Note: *Figures are general description and may vary from actual form, please see Digi-Key website for data sheets.*

Fig.	Rated Current (A)	Termination	Digi-Key Part No.	Price Each 1	25	100	Curtis Industries Part No.
			Single Phase				
			General Purpose				
1	2	Faston	364-1016-ND	7.39	6.68	5.79	02EK11
	2	Faston	364-1049-ND◆†	9.90	8.12	6.80	F1199AA02
	3	Faston	364-1061-ND◆†	14.53	11.92	9.98	F1299AA03
	6	Faston	364-1002-ND	6.61	5.97	5.18	06EB11
	6	Faston	364-1147-ND◆ ***NEW!***	11.03	9.04	7.57	F1100AA06
	10	Faston	364-1052-ND◆†	12.25	10.05	8.42	F1199AA10
	10	Faston	364-1063-ND◆†	12.93	10.60	8.88	F1299AA10
	10	Faston	364-1148-ND◆† ***NEW!***	16.13	13.23	11.07	F1250AA10
	10	Faston	364-1149-ND◆ ***NEW!***	19.79	16.23	13.58	F1300AA10
	20	Faston	364-1053-ND◆†	18.60	15.26	12.77	F1199AA20
	20	Faston	364-1064-ND◆†	20.78	17.04	14.26	F1299AA20
	2	Wire	364-1004-ND	5.94	5.37	4.66	02EB33
	2	Wire	364-1021-ND	8.17	7.38	6.40	02EK33
	2	Wire	364-1054-ND◆†	9.83	8.07	6.75	F1199BB02
	3	Wire	364-1022-ND	9.25	8.36	7.25	03EK33
	3	Wire	364-1037-ND	11.67	10.55	9.14	03ER33
	3	Wire	364-1055-ND◆†	11.05	9.07	7.59	F1199BB03
	10	Wire	364-1039-ND	12.25	11.07	9.60	10ER33
	10	Wire	364-1057-ND◆†	12.21	10.01	8.38	F1199BB10
	10	Screw	364-1009-ND	11.01	9.95	8.62	10EB66
	10	Screw	364-1028-ND	10.74	9.71	8.42	10EK66
	20	Screw	364-1010-ND	13.25	11.97	10.38	20EB66
	20	Screw	364-1044-ND	27.22	24.60	21.32	20ER66
	20	Screw	364-1068-ND◆†	24.03	19.70	16.50	F1299DD20
	30	Screw	364-1030-ND	27.26	24.63	21.35	30EK66
	30	Screw	364-1045-ND	47.77	43.17	37.42	30ER66
	30	Screw	364-1069-ND◆†	45.00	36.90	30.90	F1299DD30
2	3	IEC320/Faston	364-1025-ND	9.96	9.00	7.80	03EKM1
	3	IEC320/Faston	364-1040-ND	13.83	12.50	10.83	03ERM1
	6	IEC320/Faston	364-1026-ND	9.21	8.33	7.22	06EKM1
	6	IEC320/Faston	364-1041-ND	13.06	11.81	10.24	06ERM1
2	10	IEC320/Faston	364-1027-ND	10.24	9.26	8.03	10EKM1
	10	IEC320/Faston	364-1042-ND	14.06	12.71	11.02	10ERM1
			General Purpose — T Circuit Configuration — RoHS Compliant				
1	6	Faston	364-1072-ND‡	18.63	14.90	12.79	F1399AA06
	10	Faston	364-1073-ND‡	19.50	16.00	13.39	F1399AA10
	10	Wire	364-1078-ND‡	20.23	16.59	13.89	F1399BB10
			High Performance — RoHS Compliant				
1	3	Faston	364-1150-ND ***NEW!***	28.72	23.55	19.72	F1400AA03
	20	Faston	364-1086-ND	41.81	34.30	28.71	F1700AA20
	6	Wire	364-1151-ND ***NEW!***	42.80	35.10	29.40	F1400BB06
	20	Screw	364-1101-ND	42.13	34.55	28.93	F1700DD20
2	3	IEC320/Faston	364-1098-ND	35.92	29.46	24.66	F1600CA03
	6	IEC320/Faston	364-1099-ND	40.60	33.29	27.87	F1600CA06
			Power Entry Modules				
			General Purpose				
1	3	Fused IEC320/ Faston	364-1118-ND◆	29.38	24.10	20.18	F3300WA03
2	3	IEC320/Faston	364-1013-ND	6.18	5.58	4.84	03EBM1
	6	IEC320/Faston	364-1115-ND◆	10.10	8.29	6.94	F2199CA06
	6	IEC320/Faston	364-1153-ND◆ ***NEW!***	19.49	15.98	13.38	F2300CA06
	6	IEC320/Faston	364-1152-ND◆ ***NEW!***	8.34	6.84	5.73	F2100CA06
			DPST Rocker Switch — RoHS Compliant				
3	3	IEC320/Faston	364-1108-ND	36.85	30.23	25.31	PE820203
			Medical Filters — RoHS Compliant				
1	6	Faston	364-1120-ND	11.23	9.21	7.71	F3099AA06
	6	Wire	364-1121-ND	10.93	8.97	7.51	F3099BB06
	6	Faston	364-1154-ND ***NEW!***	11.00	9.02	7.55	F3000AA06
2	6	IEC320/Faston	364-1122-ND	12.88	10.57	8.85	F3199CA06
			DC Filters — RoHS Compliant				
1	6	Faston	364-1132-ND	23.33	19.13	16.02	FD00AA006
	10	Faston	364-1134-ND	26.23	21.50	18.00	FD00AA010
	6	Wire	364-1133-ND	23.33	19.13	16.02	FD00BB006
	10	Wire	364-1135-ND	26.23	21.50	18.00	FD00BB010

◆ ***RoHS Compliant*** † Low Leakage ‡ Designed for Motor, Capacitive and other Low Impedence Loads

Audio Aluminum Electrolytic Capacitors

RFS Series

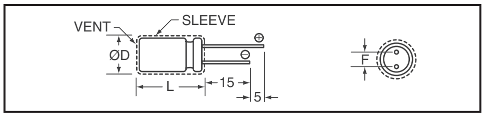

ELNA developed raw material for the separate paper which uses a silk fiber. Therefore, this series can give high grade sound for any audio design. This series can be used to relieve the music's vibration energy, to decrease the peak feeling sound at high compass, rough quality sound at middle compass and to increase massive sound at low compass.

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Standards: JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions - mm			Digi-Key Part No.	Pricing			ELNA Part No.
			D	L	F		1	10	100	
6.3	33	55	5.0	11.0	2.0	604-1137-ND✔	.30	2.07	12.42	RFS-6V330ME3#5
	47	65	5.0	11.0	2.0	604-1139-ND✔	.30	2.07	12.42	RFS-6V470ME3#5
	47	80	6.3	11.0	2.5	604-1140-ND✔	.39	2.71	16.26	RFS-6V470MF3#5
	100	135	8.0	11.5	3.5	604-1134-ND✔	.68	4.78	31.46	RFS-6V101MG3#5
	220	240	10.0	12.5	5.0	604-1136-ND✔	.67	4.96	34.01	RFS-6V221MH3#5
	330	290	10.0	16.0	5.0	604-1138-ND✔	.80	5.86	40.20	RFS-6V331MH4#5
	470	390	10.0	20.0	5.0	604-1141-ND✔	.80	5.92	40.61	RFS-6V471MH5#5
	1000	710	12.5	20.0	5.0	604-1135-ND✔	1.21	9.56	71.73	RFS-6V102MI5#5
10	3300	1980	18.0	40.0	7.5	604-1108-ND✔	4.38	35.32	275.48	RFS-10V332MK9#5
16	10	35	5.0	11.0	2.0	604-1109-ND✔	.30	2.07	12.42	RFS-16V100ME3#5
	22	55	5.0	11.0	2.0	604-1112-ND✔	.30	2.07	12.42	RFS-16V220ME3#5
	22	70	6.3	11.0	2.5	604-1113-ND✔	.39	2.71	16.26	RFS-16V220MF3#5
	47	125	8.0	11.5	3.5	604-1115-ND✔	.68	4.78	31.46	RFS-16V470MG3#5
	100	215	10.0	12.5	5.0	604-1110-ND✔	.67	4.96	34.01	RFS-16V101MH3#5
	220	385	10.0	20.0	5.0	604-1114-ND✔	.80	5.92	40.61	RFS-16V221MH5#5
	470	710	12.5	25.0	5.0	604-1116-ND✔	1.33	10.50	78.73	RFS-16V471MI6#5
	1000	1315	16.0	31.5	7.5	604-1111-ND✔	2.52	20.34	155.36	RFS-16V102MJ7#5
25	4.7	25	5.0	11.0	2.0	604-1049-ND	.30	2.07	12.42	RFS-25V4R7ME3#5
	10	35	5.0	11.0	2.0	604-1050-ND	.30	2.07	12.42	RFS-25V100ME3#5
	22	60	5.0	11.0	2.0	604-1051-ND	.30	2.07	12.42	RFS-25V220ME3#5
	22	80	6.3	11.0	2.5	604-1052-ND	.39	2.71	16.26	RFS-25V220MF3#5
	33	120	8.0	11.5	3.5	604-1053-ND	.68	4.78	31.46	RFS-25V330MG3#5
	47	140	8.0	11.5	3.5	604-1054-ND	.68	4.78	31.46	RFS-25V470MG3#5
	100	270	10.0	16.0	5.0	604-1055-ND	.80	5.86	40.20	RFS-25V101MH4#5
	220	505	12.5	20.0	5.0	604-1056-ND	1.21	9.56	71.73	RFS-25V221MI5#5
	330	675	12.5	25.0	5.0	604-1057-ND	1.33	10.50	78.73	RFS-25V331MI6#5
	470	940	16.0	25.0	7.5	604-1058-ND	2.34	18.90	144.29	RFS-25V471MJ6#5
	1000	1575	16.0	35.5	7.5	604-1059-ND	3.38	27.34	208.78	RFS-25V102MJ8#5
35	4.7	30	5.0	11.0	2.0	604-1060-ND	.30	2.07	12.42	RFS-35V4R7ME3#5
	10	35	5.0	11.0	2.0	604-1061-ND	.30	2.07	12.42	RFS-35V100ME3#5
	22	95	8.0	11.5	3.5	604-1062-ND	.68	4.78	31.46	RFS-35V220MG3#5
	33	140	10.0	12.5	5.0	604-1063-ND	.67	4.96	34.01	RFS-35V330MH3#5
35	47	170	10.0	12.5	5.0	604-1064-ND	.67	4.96	34.01	RFS-35V470MH3#5
	100	295	10.0	20.0	5.0	604-1065-ND	.80	5.92	40.61	RFS-35V101MH5#5
	220	550	12.5	25.0	5.0	604-1066-ND	1.33	10.50	78.73	RFS-35V221MI6#5
	330	785	16.0	25.0	7.5	604-1067-ND	2.34	18.90	144.29	RFS-35V331MJ6#5
	470	1030	16.0	31.5	7.5	604-1068-ND	2.52	20.34	155.36	RFS-35V471MJ7#5
	1000	1690	18.0	35.5	7.5	604-1069-ND	3.43	27.63	215.48	RFS-35V102MK8#5
50	.47	9	5.0	11.0	2.0	604-1131-ND✔	.30	2.07	12.42	RFS-50VR47ME3#5
	.47	12	6.3	11.0	2.5	604-1132-ND✔	.39	2.71	16.26	RFS-50VR47MF3#5
	1.0	14	5.0	11.0	2.0	604-1117-ND✔	.30	2.07	12.42	RFS-50V010ME3#5
	1.0	18	6.3	11.0	2.5	604-1118-ND✔	.39	2.71	16.26	RFS-50V010MF3#5
	2.2	20	5.0	11.0	2.0	604-1124-ND✔	.30	2.07	12.42	RFS-50V2R2ME3#5
	2.2	23	6.3	11.0	2.5	604-1125-ND✔	.39	2.71	16.26	RFS-50V2R2MF3#5
	4.7	35	5.0	11.0	2.0	604-1129-ND✔	.30	2.07	12.42	RFS-50V4R7ME3#5
	4.7	40	6.3	11.0	2.5	604-1130-ND✔	.39	2.71	16.26	RFS-50V4R7MF3#5
	10	75	8.0	11.5	3.5	604-1119-ND✔	.68	4.78	31.46	RFS-50V100MG3#5
	22	130	10.0	12.5	5.0	604-1122-ND✔	.67	4.96	34.01	RFS-50V220MH3#5
	47	210	10.0	16.0	5.0	604-1127-ND✔	.80	5.86	40.20	RFS-50V470MH4#5
	100	380	12.5	20.0	5.0	604-1120-ND✔	1.21	9.56	71.73	RFS-50V101MI5#5
	220	720	16.0	25.0	7.5	604-1123-ND✔	2.34	18.90	144.29	RFS-50V221MJ6#5
	330	965	16.0	31.5	7.5	604-1126-ND✔	2.52	20.34	155.36	RFS-50V331MJ7#5
	470	1210	16.0	35.5	7.5	604-1128-ND✔	3.38	27.34	208.78	RFS-50V471MJ8#5
	1000	1985	18.0	40.0	7.5	604-1121-ND✔	4.38	35.32	275.48	RFS-50V102MK9#5
63	470	1295	18.0	35.5	7.5	604-1133-ND✔	3.43	27.63	215.48	RFS-63V471MK8#5
100	2.2	25	5.0	11.0	2.0	604-1103-ND✔	.30	2.07	12.42	RFS-100V2R2ME3#5
	2.2	30	6.3	11.0	2.5	604-1104-ND✔	.39	2.71	16.26	RFS-100V2R2MF3#5
	3.3	40	8.0	11.5	3.5	604-1106-ND✔	.68	4.78	31.46	RFS-100V3R3MG3#5
	10	95	10.0	16.0	5.0	604-1099-ND✔	.80	5.86	40.20	RFS-100V100MH4#5
	22	155	10.0	20.0	5.0	604-1101-ND✔	.80	5.92	40.61	RFS-100V220MH5#5
	33	220	12.5	20.0	5.0	604-1105-ND✔	1.21	9.56	71.73	RFS-100V330MI5#5
	47	285	12.5	25.0	5.0	604-1107-ND✔	1.33	10.50	78.73	RFS-100V470MI6#5
	100	485	16.0	25.0	7.5	604-1100-ND✔	2.34	18.90	144.29	RFS-100V101MJ6#5
	220	930	18.0	40.0	7.5	604-1102-ND✔	4.38	35.32	275.48	RFS-100V221MK9#5

✔ ***NEW!***

NEW! ROB Series

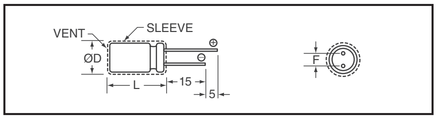

ELNA adopted the developed formation method and composite electrolytic paper for audio applications. These improvements give reduced distortion and help to achieve high quality sound.

Specifications:

Operating Temperature Range: -40°C ~ 85°C, Tolerance: ±20%.

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions - mm			Digi-Key Part No.	Pricing			ELNA Part No.
			D	L	F		1	10	100	
10	6800	2600	18.0	40.0	7.5	604-1145-ND	4.38	35.32	275.48	ROB-10V682MK9#
25	100	165	8.0	11.5	3.50	604-1146-ND	.68	4.78	31.46	ROB-25V101MG3#
100	47	210	10.0	20.0	5.0	604-1143-ND	.80	5.92	40.61	ROB-100V470MH5#
	100	340	12.5	20.0	5.0	604-1142-ND	1.21	9.56	71.73	ROB-100V101MI5#
	470	1000	18.0	35.5	7.5	604-1144-ND	3.43	27.63	215.48	ROB-100V471MK8#

NEW! LAO Series

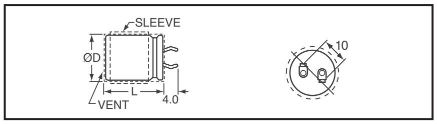

ELNA adopted the developed formation method and composite electrolytic paper for audio applications. These improvements give reduced distortion and help to achieve high quality sound. This series is best suited as power supply filters for sound quality priority audio equipment.

Specifications:

Operating Temperature Range: -40°C ~ 85°C, Tolerance: ±20%.

WV DC	Cap. (µF)	Rated Ripple Current (Arms)	Dimensions - mm		Digi-Key Part No.	Pricing			ELNA Part No.
			D	L		1	10	100	
25	6800	2.2	22.0	45.0	604-1094-ND	4.63	41.63	314.50	LAO-25V682MPDS1A#
	10000	3.0	25.0	50.0	604-1093-ND	5.63	50.00	400.00	LAO-25V103MPDS2A#
50	4700	2.4	25.0	50.0	604-1095-ND	5.63	50.00	400.00	LAO-50V472MPDS2A#
	6800	3.1	30.0	50.0	604-1096-ND	9.23	82.00	656.00	LAO-50V682MPDS3A#
80	3300	2.2	35.0	40.0	604-1097-ND	7.09	63.00	504.00	LAO-80V332MPDS4A#
	4700	2.7	35.0	50.0	604-1098-ND	9.00	80.00	640.00	LAO-80V472MPDS4A#
100	680	.8	22.0	35.0	604-1092-ND	4.38	39.38	297.50	LAO-100V681MPDS1A#

VISHAY. BCcomponents

ASM 021

Axial Standard Miniature Electrolytic Capacitors

Features: • Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve • Charge and discharge proof • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30mm available for automatic insertion • Miniaturized, high CV-product per unit volume

Applications: • General purpose, industrial, automotive, audio-video • Coupling, decoupling, smoothing, filtering, buffering and timing • Portable and mobile equipment (small size, low mass) • Low mounting height boards, vibration and shock resistant.

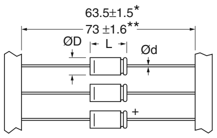

Case size 10 x 30 and above are bulk
Form BA: Taped in box (ammo pack)
*Case ØD x L = 4.5 x 10 to 8 x 11mm
**Case ØD x L = 6.5 x 18 to 10 x 25mm

DESCRIPTION	VALUE	
Case sizes (ØDnom x Lnom in mm)	4.5 x 10 ~ 10 x 25	10 x 30 ~ 21 x 40
Rated capacitance range, CR	0.47 ~ 15,000µF	
Tolerance on CR	±20%	
Rated voltage range, UR	6.3 ~ 100V	
Category temperature range	-40°C ~ 85°C	
Endurance test at 85°C: UR = 6.3 ~ 25V UR = 40 ~ 100V	1,000 hours 2,000 hours	5,000 hours 5,000 hours
Useful life at 85°C	2,500 hours	8,000 hours
Useful life at 40°C, 1.4 x IR applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification: UR = 6.3 ~ 25V UR = 40 ~ 100V	IEC 384-4/CECC 30300 GP grade LL grade	IEC384-4/CECC 30300 LL grade LL grade
Climatic category IEC 68 (DIN 40040)	40/085/56 (GPF)	

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions - mm			Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Box Pricing			Vishay Part No.
					L	D	d		1	10		500	1,000	2,500	
6.3	470	22	0.250	260	11	8.0	0.6	4000PHCT-ND◆	1.47	12.05	4000PHTB-ND◆	250.00	441.00	412.00/M	MAL202133471E3
	1000	42	0.250	440	18	8.0	0.8	4001PHCT-ND◆	1.69	13.86	—	—	—	—	MAL202133102E3
	2200	87	0.290	710	25	10	0.8	4002PHCT-ND◆	2.46	20.17	4002PHTB-ND◆	418.00	738.00	689.00/M	MAL202190589E3
10	100	10	0.200	100	10	4.5	0.6	4003PHCT-ND◆	1.18	9.87	4003PHTB-ND◆	—	326.00	—	MAL202134101E3
	220	17	0.200	160	10	6.0	0.6	4004PHCT-ND◆	1.31	10.90	4004PHTB-ND◆	—	360.00	—	MAL202134221E3
	330	24	0.200	230	11	8.0	0.6	4005PHCT-ND◆	1.47	12.05	4005PHTB-ND◆	250.00	441.00	412.00/M	MAL202134331E3
	470	32	0.200	310	18	6.5	0.8	4006PHCT-ND◆	1.47	12.05	4006PHTB-ND◆	—	441.00	—	MAL202134471E3
	1000	64	0.200	550	18	10	0.8	4008PHCT-ND◆	1.94	15.87	4008PHTB-ND◆	329.00	581.00	542.00/M	MAL202134102E3
	3300	202	0.270	1090	30	12.5	0.8	4012PHBK-ND◆†	2.52	20.38	—	592.80	1037.40	1000.36/M	MAL202114332E3
	4700	286	0.290	1320	30	15	0.8	4013PHBK-ND◆†	2.92	23.65	—	688.00	1204.00	1161.00/M	MAL202114472E3
16	68	11	0.160	90	10	4.5	0.6	4017PHCT-ND◆	1.18	9.87	4017PHTB-ND◆	—	326.00	—	MAL202135689E3
	150	18	0.160	140	10	6.0	0.6	4018PHCT-ND◆	1.31	10.90	4018PHTB-ND◆	—	360.00	—	MAL202135151E3
	220	25	0.160	210	11	8.0	0.6	4019PHCT-ND◆	1.47	12.05	4019PHTB-ND◆	250.00	441.00	412.00/M	MAL202135221E3
	330	36	0.160	290	18	6.5	0.8	4020PHCT-ND◆	1.47	12.05	4020PHTB-ND◆	—	441.00	—	MAL202135331E3
	470	49	0.160	380	18	8.0	0.8	4021PHCT-ND◆	1.69	13.86	4021PHTB-ND◆	287.50	507.00	473.00/M	MAL202135471E3
	680	69	0.160	500	18	10	0.8	4022PHCT-ND◆	1.94	15.87	4022PHTB-ND◆	329.00	581.00	542.00/M	MAL202135681E3
	1000	100	0.160	660	25	10	0.8	4023PHCT-ND◆	2.46	20.17	4023PHTB-ND◆	418.00	738.00	689.00/M	MAL202190518E3
	1000	100	0.160	700	30	10	0.8	4024PHBK-ND◆†	1.99	16.09	—	468.00	819.00	789.76/M	MAL202115102E3
	2200	216	0.210	1040	30	12.5	0.8	4026PHBK-ND◆†	2.50	20.24	—	588.80	1030.40	993.60/M	MAL202115222E3
	3300	321	0.230	1290	30	15	0.8	4027PHBK-ND◆†	2.99	24.15	—	702.40	1229.20	1185.30/M	MAL202115332E3
	4700	455	0.250	1560	30	18	0.8	4028PHBK-ND◆†	3.27	26.38	—	764.88	1424.25	1371.50/M	MAL202115472E3
	6800	656	0.300	2040	38	18	0.8	4029PHBK-ND◆†	4.10	33.08	—	959.18	1786.05	1719.90/M	MAL202115682E3
	10000	964	0.360	2170	38	21	0.8	4030PHBK-ND◆†	4.33	38.99	—	1213.10	2252.90	2209.58/M	MAL202115103E3
25	47	11	0.140	80	10	4.5	0.6	4031PHCT-ND◆	1.18	9.87	4031PHTB-ND◆	—	326.00	—	MAL202136479E3
	100	19	0.140	150	10	6.0	0.6	4032PHCT-ND◆	1.31	10.90	4032PHTB-ND◆	—	360.00	—	MAL202136101E3
	150	27	0.140	210	18	6.5	0.8	4034PHCT-ND◆	1.47	12.05	4034PHTB-ND◆	—	441.00	—	MAL202136151E3
	220	37	0.140	250	18	6.5	0.8	4035PHCT-ND◆	1.47	12.05	4035PHTB-ND◆	—	441.00	—	MAL202136221E3
	330	54	0.140	340	18	8.0	0.8	4036PHCT-ND◆	1.69	13.86	4036PHTB-ND◆	287.50	507.00	473.00/M	MAL202136331E3
	470	75	0.140	450	18	10	0.8	4037PHCT-ND◆	1.94	15.87	4037PHTB-ND◆	329.00	581.00	542.00/M	MAL202136471E3
	680	106	0.140	560	25	10	0.8	4038PHCT-ND◆	2.46	20.17	4038PHTB-ND◆	418.00	738.00	689.00/M	MAL202190528E3
	1000	154	0.140	840	30	12.5	0.8	4040PHBK-ND◆†	2.20	17.77	—	516.80	904.40	872.10/M	MAL202116102E3
	1500	229	0.170	950	30	12.5	0.8	4041PHBK-ND◆†	2.52	20.38	—	592.80	1037.40	1000.36/M	MAL202116152E3
	2200	334	0.190	1180	30	15	0.8	4042PHBK-ND◆†	2.96	23.93	—	696.00	1218.00	1174.50/M	MAL202116222E3
	3300	499	0.210	1470	30	18	0.8	4043PHBK-ND◆†	3.33	26.88	—	779.38	1451.25	1397.50/M	MAL202116332E3
	4700	709	0.230	1920	38	18	0.8	4328PHBK-ND◆†	3.97	32.00	—	928.00	1728.00	1664.00/M	MAL202190062E3
	6800	1024	0.280	2070	38	21	0.8	4045PHBK-ND◆†	4.32	38.90	—	1210.30	2247.70	2204.48/M	MAL202116682E3
40	22	9.0	0.110	60	10	4.5	0.6	4046PHCT-ND◆	1.18	9.87	4046PHTB-ND◆	—	325.50	—	MAL202137229E3
	47	15	0.110	110	10	6.0	0.6	4047PHCT-ND◆	1.31	10.90	4047PHTB-ND◆	—	360.00	—	MAL202137479E3
	100	28	0.110	170	11	8.0	0.6	4048PHCT-ND◆	1.47	12.05	4048PHTB-ND◆	250.00	441.00	412.00/M	MAL202190538E3
	100	28	0.110	190	18	6.5	0.8	4049PHCT-ND◆	1.47	12.05	4049PHTB-ND◆	—	441.00	—	MAL202137101E3
	150	40	0.110	250	18	8.0	0.8	4050PHCT-ND◆	1.69	13.86	4050PHTB-ND◆	287.50	507.00	473.00/M	MAL202137151E3
	220	57	0.110	330	18	10	0.8	4051PHCT-ND◆	1.94	15.87	4051PHTB-ND◆	329.00	581.00	542.00/M	MAL202137221E3
	330	83	0.110	430	25	10	0.8	4052PHCT-ND◆	2.46	20.17	4052PHTB-ND◆	418.00	738.00	689.00/M	MAL202137331E3
	470	117	0.110	520	25	10	0.8	4053PHCT-ND◆	2.46	20.17	4053PHTB-ND◆	418.00	738.00	689.00/M	MAL202190515E3
	470	117	0.120	590	30	10	0.8	4054PHBK-ND◆†	1.88	15.21	—	442.40	774.20	746.56/M	MAL202117471E3
	680	167	0.120	800	30	12.5	0.8	4055PHBK-ND◆†	2.10	16.97	—	493.60	863.80	832.96/M	MAL202117681E3
	1500	364	0.150	1120	30	15	0.8	4057PHBK-ND◆†	2.96	23.93	—	696.00	1218.00	1174.50/M	MAL202117152E3
	2200	532	0.170	1390	30	18	0.8	4058PHBK-ND◆†	3.36	27.13	—	786.63	1464.75	1410.50/M	MAL202117222E3
	3300	796	0.190	1810	38	18	0.8	4059PHBK-ND◆†	4.41	35.60	—	1032.40	1922.40	1851.20/M	MAL202117332E3
	4700	1132	0.210	1940	38	21	0.8	4060PHBK-ND◆†	4.63	41.67	—	1296.40	2407.60	2361.30/M	MAL202117472E3
63	0.47	4.2	0.090	8.0	10	4.5	0.6	4061PHCT-ND◆	1.07	8.98	4061PHTB-ND◆	—	296.00	—	MAL202138477E3
	1.0	4.4	0.090	12	10	4.5	0.6	4062PHCT-ND◆	1.07	8.98	4062PHTB-ND◆	—	296.00	—	MAL202138108E3
	2.2	4.8	0.090	21	10	4.5	0.6	4063PHCT-ND◆	1.07	8.98	4063PHTB-ND◆	—	296.00	—	MAL202138228E3
	3.3	5.2	0.090	25	10	4.5	0.6	4064PHCT-ND◆	1.07	8.98	—	—	—	—	MAL202138338E3
	4.7	5.8	0.090	31	10	4.5	0.6	4065PHCT-ND◆	1.07	8.98	4065PHTB-ND◆	—	296.00	—	MAL202138478E3
	10	7.8	0.080	50	10	4.5	0.6	4066PHCT-ND◆	1.07	8.98	4066PHTB-ND◆	—	296.00	—	MAL202138109E3
	15	9.5	0.080	55	10	4.5	0.6	4067PHCT-ND◆	1.18	9.87	4067PHTB-ND◆	—	326.00	—	MAL202138159E3
	22	12	0.080	90	10	6.0	0.6	4068PHCT-ND◆	1.18	9.87	4068PHTB-ND◆	—	326.00	—	MAL202138229E3
	33	16	0.080	100	10	6.0	0.6	4069PHCT-ND◆	1.31	10.90	4069PHTB-ND◆	—	360.00	—	MAL202138339E3
	47	22	0.080	140	11	8.0	0.6	4070PHCT-ND◆	1.47	12.05	4070PHTB-ND◆	250.00	441.00	412.00/M	MAL202190542E3
	47	22	0.080	150	18	6.5	0.8	4071PHCT-ND◆	1.47	12.05	4071PHTB-ND◆	—	441.00	—	MAL202138479E3
	68	30	0.080	170	18	6.5	0.8	4073PHCT-ND	1.47	12.05	4073PHTB-ND	—	441.00	—	MAL202138689E3
	100	42	0.080	250	18	8.0	0.8	4074PHCT-ND◆	1.69	13.86	4074PHTB-ND◆	287.50	507.00	473.00/M	MAL202138101E3
	150	61	0.080	320	18	10	0.8	4075PHCT-ND◆	1.94	15.87	4075PHTB-ND◆	329.00	581.00	542.00/M	MAL202138151E3
	220	88	0.080	430	25	10	0.8	4076PHCT-ND◆	2.46	20.17	4076PHTB-ND◆	418.00	738.00	689.00/M	MAL202190512E3
	220	88	0.080	480	30	10	0.8	4077PHBK-ND◆†	1.87	15.13	—	440.00	770.00	742.50/M	MAL202118221E3
	330	129	0.080	610	30	12.5	0.8	4078PHBK-ND◆†	2.10	16.97	—	493.60	863.80	832.96/M	MAL202118331E3
	470	182	0.080	700	30	12.5	0.8	4079PHBK-ND◆†	2.40	19.42	—	564.80	988.40	953.10/M	MAL202118471E3
	680	261	0.080	890	30	15	0.8	4080PHBK-ND◆†	2.47	20.01	—	582.00	1018.50	982.13/M	MAL202118681E3
	1000	382	0.080	1170	30	18	0.8	4081PHBK-ND◆†	3.22	25.95	—	752.55	1401.30	1349.40/M	MAL202118102E3
	2200	836	0.130	1780	38	21	0.8	4083PHBK-ND◆†	4.47	40.21	—	1250.90	2323.10	2278.43/M	MAL202118222E3
100	1.0	4.6	0.080	14	10	4.5	0.6	4084PHCT-ND◆	1.07	8.98	4084PHTB-ND◆	—	296.00	—	MAL202139108E3
	2.2	5.3	0.080	20	10	4.5	0.6	4085PHCT-ND◆	1.07	8.98	4085PHTB-ND◆	—	296.00	—	MAL202139228E3
	10	10	0.080	65	10	6.0	0.6	4087PHCT-ND◆	1.24	10.39	4087PHTB-ND◆	—	343.00	—	MAL202139109E3
	15	13	0.080	85	18	6.5	0.8	4089PHCT-ND◆	1.47	12.05	—	—	—	—	MAL202139159E3
	22	17	0.080	95	11	8.0	0.6	4090PHCT-ND◆	1.47	12.05	4090PHTB-ND◆	250.00	441.00	412.00/M	MAL202190552E3
	47	32	0.080	160	18	8.0	0.8	4093PHCT-ND◆	1.69	13.86	4093PHTB-ND◆	287.50	507.00	473.00/M	MAL202139479E3
	68	45	0.080	220	18	10	0.8	4094PHCT-ND◆	1.94	15.87	4094PHTB-ND◆	329.00	581.00	542.00/M	MAL202139689E3
	100	64	0.080	300	25	10	0.8	4095PHCT-ND◆	2.46	20.17	4095PHTB-ND◆	418.00	738.00	689.00/M	MAL202190532E3
	100	64	0.070	340	30	10	0.8	4096PHBK-ND◆†	1.84	14.88	—	432.80	757.40	730.36/M	MAL202119101E3
	220	136	0.080	560	30	12.5	0.8	4098PHBK-ND◆†	2.46	19.88	—	578.40	1012.20	976.06/M	MAL202119221E3
	330	202	0.090	740	30	15	0.8	4099PHBK-ND◆†	3.03	24.53	—	713.60	1248.80	1204.20/M	MAL202119331E3
	470	286	0.090	980	30	18	0.8	4100PHBK-ND◆†	3.43	27.63	—	801.13	1491.75	1436.50/M	MAL202119471E3
	1000	604	0.100	1470	38	21	0.8	4102PHBK-ND◆†	4.78	43.02	—	1338.40	2485.60	2437.80/M	MAL202119102E3

◆ ***RoHS Compliant*** † Bulk

BCcomponents

AHT 118 Axial High Temperature Electrolytic Capacitors

Features:
- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case Ø10mm x 30mm to 21mm x 40mm with pressure relief
- Taped versions up to case Ø15mm x 30 mm available for automatic insertion
- Charge and discharge proof
- Extra long useful life: 4,000 hours at 125°C, high reliability
- Extended temperature range: 125°C (usable up to 150°C)
- Miniaturized, high CV-product per unit volume

Applications:
- Automotive, industrial and telecommunication
- Smoothing, filtering, coupling, decoupling, timing
- For use after very long storage (10 years) without voltage applied
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant
- Outdoor applications, e.g. aerial amplifiers

Dimensions in mm

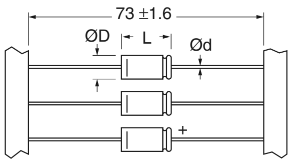

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
Case ØD x L = 6.5mm x 18mm to 10mm x 25mm

Description	Value	
Case sizes (ØDnom x Lnom in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, CR	1 to 10,000 µF	
Tolerance on CR	±20%	
Rated voltage range, UR	6.3 ~ 200V	
Category temperature range	-40°C ~ 125°C	-55°C ~ 125°C
Endurance test at 150°C, with no IR applied	500 hours	1,000 hours
Endurance test at 125°C	2,000 hours	3,000 hours
Useful life at 125°C	4,000 hours	4,000 hours
Useful life at 40°C, 1.8 x IR applied	500,000 hours	500,000 hours
Shelf life at 0 V, 125°C UR = 6.3 to 63V UR = 100 and 200 V	500 hours 100 hours	
Based on sectional specification	IEC 384-4/CECC 30300, LL grade	
Climatic category IEC 68 (DIN 40040)	40/125/56 (GKD)	55/125/56 (FKD)

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Box Pricing			Vishay Part No.
					L	D	d		1	10		500	1,000	2,500	
6.3	1500	61	0.500	352	25	10	0.8	4104PHCT-ND	3.03	25.98	—	—	—	—	MAL211890503E3
10	330	24	0.350	150	18	8.0	0.8	4106PHCT-ND◆	3.23	26.83	4106PHTB-ND◆	631.00	1105.00	1065.00/M	MAL211834331E3
	470	32	0.350	179	18	8.0	0.8	4107PHCT-ND	3.23	26.83	—	—	—	—	MAL211834471E3
	2200	136	0.400	830	30	12.5	0.8	4111PHBK-ND◆†	3.68	29.65	—	859.85	1601.10	1541.80/M	MAL211814222E3
	4700	286	0.460	1350	30	18	0.8	4113PHBK-ND◆†	4.52	40.70	—	1266.30	2351.70	2306.48/M	MAL211814472E3
16	330	36	0.250	204	18	10	0.8	4117PHCT-ND◆	3.39	28.08	4117PHTB-ND◆	661.00	1156.00	1115.00/M	MAL211835331E3
	470	49	0.250	243	18	10	0.8	4118PHCT-ND◆	3.39	28.08	—	—	—	—	MAL211835471E3
	1000	100	0.220	720	30	12.5	0.8	4120PHBK-ND◆†	3.11	25.10	—	727.90	1355.40	1305.20/M	MAL211815102E3
	2200	215	0.290	1010	30	15	0.8	4122PHBK-ND◆†	4.47	36.05	—	1045.45	1946.70	1874.60/M	MAL211815222E3
25	100	20	0.180	102	18	6.5	0.8	4126PHCT-ND◆	3.15	26.11	4126PHTB-ND◆	—	1075.00	—	MAL211836101E3
	220	37	0.180	196	18	10	0.8	4127PHCT-ND◆	3.39	28.08	4127PHTB-ND◆	661.00	1156.00	1115.00/M	MAL211836221E3
	330	54	0.180	274	25	10	0.8	4128PHCT-ND◆	3.55	29.44	4128PHTB-ND◆	693.00	1212.00	1169.00/M	MAL211836331E3
	470	75	0.180	327	25	10	0.8	4129PHCT-ND◆	3.55	29.44	4129PHTB-ND◆	693.00	1212.00	1169.00/M	MAL211890509E3
	470	75	0.180	490	30	10	0.8	4130PHBK-ND◆†	3.25	26.26	—	764.00	1337.00	1289.26/M	MAL211816471E3
	1000	154	0.240	760	30	12.5	0.8	4132PHBK-ND◆†	3.88	31.33	—	908.43	1691.55	1628.90/M	MAL211816102E3
	2200	334	0.260	1240	30	18	0.8	4134PHBK-ND◆†	4.82	43.40	—	1350.30	2507.70	2459.48/M	MAL211816222E3
40	47	20	0.110	89.8	18	6.5	0.8	4137PHCT-ND◆	3.15	26.11	4137PHTB-ND◆	—	1075.00	—	MAL211837479E3
	100	28	0.110	147	18	8.0	0.8	4138PHCT-ND◆	3.23	26.83	4138PHTB-ND◆	631.00	1105.00	1065.00/M	MAL211837101E3
	150	40	0.110	207	18	10	0.8	4139PHCT-ND◆	3.39	28.08	4139PHTB-ND◆	661.00	1156.00	1115.00/M	MAL211837151E3
	220	57	0.100	390	30	10	0.8	4141PHBK-ND◆†	3.19	25.82	—	751.20	1314.60	1267.66/M	MAL211817221E3
	330	83	0.100	570	30	12.5	0.8	4142PHBK-ND◆†	3.31	26.68	—	773.58	1440.45	1387.10/M	MAL211817331E3
	470	117	0.110	620	30	12.5	0.8	4143PHBK-ND◆†	3.81	30.75	—	891.75	1660.50	1599.00/M	MAL211817471E3
	1000	244	0.130	1070	30	18	0.8	4145PHBK-ND◆†	4.61	41.51	—	1291.50	2398.50	2352.38/M	MAL211817102E3
63	10	20	0.070	51.9	18	6.5	0.8	4151PHCT-ND◆	3.15	26.11	4151PHTB-ND◆	—	1075.00	—	MAL211838109E3
	22	20	0.070	77	18	6.5	0.8	4152PHCT-ND◆	3.15	26.11	4152PHTB-ND◆	—	1075.00	—	MAL211838229E3
	47	22	0.070	126	18	8.0	0.8	4153PHCT-ND◆	3.23	26.83	4153PHTB-ND◆	631.00	1105.00	1065.00/M	MAL211838479E3
	100	42	0.070	243	25	10	0.8	4154PHCT-ND◆	3.55	29.44	4154PHTB-ND◆	693.00	1212.00	1169.00/M	MAL211890514E3
	100	42	0.070	340	30	10	0.8	4155PHBK-ND◆†	3.19	25.82	—	751.20	1314.60	1267.66/M	MAL211818101E3
	220	87	0.080	550	30	12.5	0.8	4157PHBK-ND◆†	3.91	31.55	—	914.95	1703.70	1640.60/M	MAL211818221E3
	330	129	0.090	730	30	15	0.8	4158PHBK-ND◆†	3.90	35.06	—	1090.60	2025.40	1986.46/M	MAL211818331E3
	470	182	0.090	970	30	18	0.8	4159PHBK-ND◆†	4.84	43.54	—	1354.50	2515.50	2467.13/M	MAL211818471E3
	1000	383	0.100	1400	38	21	0.8	4161PHBK-ND◆†	7.58	67.34	—	2314.81	4292.93	4208.76/M	MAL211818102E3
100	10	20	0.070	52	18	6.5	0.8	4163PHCT-ND◆	3.15	26.11	4163PHTB-ND◆	—	1075.00	—	MAL211839109E3
	22	20	0.070	91	18	8.0	0.8	4164PHCT-ND◆	3.23	26.83	4164PHTB-ND◆	631.00	1105.00	1065.00/M	MAL211839229E3
	47	33	0.070	170	25	10	0.8	4166PHCT-ND◆	3.55	29.44	4166PHTB-ND◆	693.00	1212.00	1169.00/M	MAL211890536E3
	47	33	0.080	240	30	10	0.8	4167PHBK-ND◆†	3.38	27.36	—	796.00	1393.00	1343.26/M	MAL211819479E3
	100	64	0.090	380	30	12.5	0.8	4169PHBK-ND◆†	3.99	32.20	—	933.80	1738.80	1674.40/M	MAL211819101E3
	220	136	0.100	690	30	18	0.8	4171PHBK-ND◆†	4.87	43.81	—	1362.90	2531.10	2482.43/M	MAL211819221E3
200	10	20	0.060	85	25	10	0.8	4176PHCT-ND◆	3.55	29.44	4176PHTB-ND◆	693.00	1212.00	1169.00/M	MAL211890543E3
	15	22	0.046	150	30	10	0.8	4177PHBK-ND◆†	3.15	25.49	—	741.60	1297.80	1251.46/M	MAL211892159E3
	22	31	0.046	210	30	12.5	0.8	4178PHBK-ND◆†	3.36	27.13	—	786.63	1464.75	1410.50/M	AL211892229E3
	33	44	0.046	290	30	15	0.8	4179PHBK-ND◆†	4.14	33.40	—	968.60	1803.60	1736.80/M	MAL211892339E3
	47	61	0.046	390	30	18	0.8	4180PHBK-ND◆†	4.13	37.17	—	1156.40	2147.60	2106.30/M	MAL211892479E3
	100	124	0.046	610	38	21	0.8	4182PHBK-ND◆†	6.41	56.94	—	1957.31	3629.93	3558.76/M	MAL211892101E3

† Bulk ◆ ***RoHS Compliant***

AML 138 Axial Miniature Long-Life Electrolytic Capacitors

Features:
• Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve (case Ø6.3mm x 12.7mm and 7.7mm x 12.7mm are molded with flame retardant plastic material) • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30 mm available for automatic insertion • Charge and discharge proof • Long useful life: 2,000 ~ 10,000 hours at 105°C, high reliability • High ripple current capability • Miniaturized, high CV-product per unit volume

Applications:
• Industrial, automotive, EDP and telecommunication • Smoothing, filtering, buffering in SMPS; coupling, decoupling, timing • Portable and mobile equipment (small size, low mass) • Standby applications • Low mounting height boards • Vibration and shock resistant

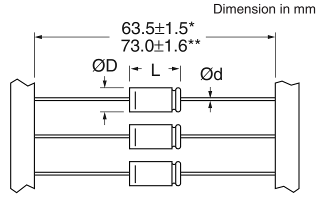

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L = 6.3mm x 12.7mm and 7.7mm x 12.7 mm
**Case ØD x L = 6.5mm x 18mm and 10mm x 25 mm

Description	Value	
Case sizes (ØDnom x Lnom in mm)	6.3 x 12.7 ~ 10 x 25	10 x 30 ~ 21 x 40
Rated capacitance range, CR	1.0 ~ 15,000 µF	
Tolerance on CR	±20%	
Rated voltage range, UR	6.3 ~ 100V	
Category temperature range	-40°C ~ 105°C	
Endurance test at 105°C	1,000 hours	5,000 hours
Useful life at 105°C	2,000 hours	10,000 hours
Useful life at 40°C, IR applied	1.3 x IR applied: 200,000 hours	1.8 x IR applied: 500,000 hours
Shelf life at 0 V, 105°C	500 hours	
Based on sectional specification	IEC 384-4/CECC 30300	
Climatic category IEC 68 (DIN 40040)	40/105/56 (GMF)	

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ	Ripple Current (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Box Pricing		Vishay Part No.
					L	D	d		1	10		500	1,000	
6.3	100	16	0.240	99	12.7	6.3	0.6	4183PHCT-ND◆	2.29	18.97	4183PHTB-ND◆	—	781.20	MAL213833101E3
	1000	42	0.240	430	18	10	0.8	4186PHCT-ND◆	2.68	22.24	4186PHTB-ND◆	523.20	915.60	MAL213833102E3
	2200	87	0.290	640	25	10	0.8	4187PHCT-ND	3.23	26.83	4187PHTB-ND	631.20	1104.60	MAL213833222E3
10	150	33	0.200	140	12.7	7.7	0.6	4188PHCT-ND	2.53	20.94	4188PHTB-ND	492.80	862.40	MAL213834151E3
	470	32	0.200	300	18	8.0	0.8	4190PHCT-ND◆	2.13	17.68	4190PHTB-ND◆	416.00	728.00	MAL213834471E3
	1000	64	0.200	520	25	10	0.8	4191PHCT-ND◆	3.23	26.83	4191PHTB-ND◆	631.20	1104.60	MAL213834102E3
	2200	140	0.270	890	30	12.5	0.8	4193PHBK-ND◆†	2.76	22.30	—	648.80	1135.40	MAL213814222E3
	4700	290	0.310	1450	30	18	0.8	4195PHBK-ND◆†	3.73	30.08	—	872.18	1624.05	MAL213814472E3
16	22	10	0.120	58	12.7	6.3	0.6	4199PHCT-ND◆	2.29	18.97	4199PHTB-ND◆	—	781.20	MAL213835229E3
	47	18	0.160	83	12.7	6.3	0.6	4200PHCT-ND◆	2.29	18.97	4200PHTB-ND◆	—	781.20	MAL213835479E3
	100	35	0.160	130	12.7	7.7	0.6	4201PHCT-ND◆	2.53	20.94	4201PHTB-ND◆	492.80	862.40	MAL213835101E3
	220	25	0.160	230	18	8.0	0.8	4202PHCT-ND◆	2.13	17.68	4202PHTB-ND◆	416.00	728.00	MAL213835221E3
	470	49	0.160	360	18	10	0.8	4203PHCT-ND◆	2.68	22.24	4203PHTB-ND◆	523.20	915.60	MAL213835471E3
	2200	210	0.210	1090	30	15	0.8	4206PHBK-ND◆†	3.28	26.54	—	772.00	1351.00	MAL213815222E3
	4700	450	0.280	1480	30	18	0.8	4208PHBK-ND◆†	3.80	34.16	—	1062.60	1973.40	MAL213815472E3
25	10	8.0	0.090	46	12.7	6.3	0.6	4211PHCT-ND◆	2.29	18.97	4211PHTB-ND◆	—	781.20	MAL213836109E3
	22	14	0.140	61	12.7	6.3	0.6	4212PHCT-ND◆	2.29	18.97	4212PHTB-ND◆	—	781.20	MAL213836229E3
	33	20	0.140	74	12.7	6.3	0.6	4213PHCT-ND	2.29	18.97	4213PHTB-ND	—	781.20	MAL213836339E3
	47	27	0.140	96	12.7	7.7	0.6	4214PHCT-ND◆	2.53	20.94	4214PHTB-ND◆	492.80	862.40	MAL213836479E3
	100	19	0.130	160	18	6.5	0.8	4215PHCT-ND◆	2.40	19.68	4215PHTB-ND◆	—	720.00	MAL213836101E3
	220	37	0.130	270	18	10	0.8	4216PHCT-ND◆	2.68	22.24	4216PHTB-ND◆	523.20	915.60	MAL213836221E3
	470	75	0.130	440	25	10	0.8	4217PHCT-ND◆	3.23	26.83	4217PHTB-ND◆	631.20	1104.60	MAL213836471E3
	680	110	0.140	580	30	10	0.8	4218PHBK-ND◆†	2.01	16.25	—	472.80	827.40	MAL213816681E3
	1000	150	0.140	790	30	12.5	0.8	4219PHBK-ND◆†	2.72	21.97	—	639.20	1118.60	MAL213816102E3
	2200	330	0.160	1320	30	18	0.8	4221PHBK-ND◆†	3.74	30.15	—	874.35	1628.10	MAL213816222E3
	4700	710	0.200	1840	38	18	0.8	4223PHBK-ND◆†	5.16	46.46	—	1445.50	2684.50	MAL213816472E3
	6800	1000	0.260	2100	38	21	0.8	4224PHBK-ND◆†	6.22	55.32	—	1901.63	3526.65	MAL213816682E3
40	47	15	0.100	120	18	6.5	0.8	4226PHCT-ND◆	2.40	19.68	4226PHTB-ND◆	—	720.00	MAL213837479E3
	100	28	0.100	180	18	8.0	0.8	4227PHCT-ND◆	2.13	17.68	4227PHTB-ND◆	416.00	728.00	MAL213837101E3
	220	57	0.100	350	25	10	0.8	4228PHCT-ND◆	3.23	26.83	4228PHTB-ND◆	631.20	1104.60	MAL213837221E3
	330	83	0.100	490	30	10	0.8	4229PHBK-ND◆†	2.26	18.26	—	531.20	929.60	MAL213817331E3
	470	120	0.100	650	30	12.5	0.8	4230PHBK-ND◆†	2.52	20.38	—	592.80	1037.40	MAL213817471E3
	680	170	0.110	750	30	12.5	0.8	4231PHBK-ND◆†	2.90	23.49	—	683.20	1195.60	MAL213817681E3
	1000	240	0.110	970	30	15	0.8	4232PHBK-ND◆†	3.18	25.68	—	744.58	1386.45	MAL213817102E3
	2200	530	0.130	1640	38	18	0.8	4234PHBK-ND◆†	4.19	37.71	—	1173.20	2178.80	MAL213817222E3
50	10	13	0.090	51	12.7	6.3	0.6	4236PHCT-ND◆	2.29	18.97	4236PHTB-ND◆	—	781.20	MAL213831109E3
	22	25	0.090	82	12.7	7.7	0.6	4237PHCT-ND◆	2.53	20.94	4237PHTB-ND◆	492.80	862.40	MAL213831229E3
	100	34	0.080	230	18	10	0.8	4238PHCT-ND◆	2.68	22.24	4238PHTB-ND◆	523.20	915.60	MAL213831101E3
63	4.7	9.0	0.090	35	12.7	6.3	0.6	4239PHCT-ND◆	2.29	18.97	4239PHTB-ND◆	—	781.20	MAL213838478E3
	10	16	0.080	59	12.7	7.7	0.6	4240PHCT-ND◆	2.53	20.94	4240PHTB-ND◆	492.80	862.40	MAL213838109E3
	22	12	0.070	100	18	6.5	0.8	4241PHCT-ND◆	2.40	19.68	4241PHTB-ND◆	—	720.00	MAL213838229E3
	47	22	0.070	150	18	8.0	0.8	4242PHCT-ND◆	2.13	17.68	4242PHTB-ND◆	416.00	728.00	MAL213838479E3
	100	42	0.070	280	25	10	0.8	4243PHCT-ND◆	3.23	26.83	4243PHTB-ND◆	631.20	1104.60	MAL213838101E3
	150	61	0.110	410	30	10	0.8	4244PHBK-ND◆†	2.22	17.93	—	521.60	912.80	MAL213818151E3
	220	88	0.110	560	30	12.5	0.8	4245PHBK-ND◆†	2.48	20.08	—	584.00	1022.00	MAL213818221E3
	330	130	0.120	660	30	12.5	0.8	4246PHBK-ND◆†	2.90	23.46	—	682.40	1194.20	MAL213818331E3
	470	180	0.120	860	30	15	0.8	4247PHBK-ND◆†	3.12	25.20	—	730.80	1360.80	MAL213818471E3
	1000	380	0.120	1460	38	18	0.8	4249PHBK-ND◆†	4.00	35.96	—	1118.60	2077.40	MAL213818102E3
	1500	570	0.130	1680	38	21	0.8	4250PHBK-ND◆†	5.36	48.26	—	1501.50	2788.50	MAL213818152E3
100	2.2	7.0	0.090	24	12.7	6.3	0.6	4252PHCT-ND	2.29	18.97	4252PHTB-ND	—	781.20	MAL213839228E3
	4.7	12	0.080	40	12.7	7.7	0.6	4253PHCT-ND◆	2.53	20.94	4253PHTB-ND◆	492.80	862.40	MAL213839478E3
	10	10	0.070	67	18	6.5	0.8	4254PHCT-ND	2.40	19.68	4254PHTB-ND	—	720.00	MAL213839109E3
	22	17	0.070	100	18	8.0	0.8	4255PHCT-ND◆	2.13	17.68	4255PHTB-ND◆	416.00	728.00	MAL213839229E3
	47	32	0.070	190	25	10	0.8	4256PHCT-ND	3.23	26.83	4256PHTB-ND	631.20	1104.60	MAL213839479E3
	68	45	0.070	300	30	10	0.8	4257PHBK-ND◆†	2.36	19.06	—	554.40	970.20	MAL213819689E3
	100	64	0.070	410	30	12.5	0.8	4258PHBK-ND◆†	2.64	21.34	—	620.80	1086.40	MAL213819101E3
	330	200	0.080	880	30	18	0.8	4261PHBK-ND◆†	4.21	33.98	—	985.28	1834.65	MAL213819331E3
	470	290	0.080	1130	38	18	0.8	4262PHBK-ND◆†	4.29	38.57	—	1199.80	2228.20	MAL213819471E3

◆ ***RoHS Compliant*** † Bulk

Bi-Polar Series SU Capacitors

FEATURES:

- Ideal for circuits where polarity is not constant or reverse voltage is applied when switches are turned on or off.
- Life: 2000 hours at +85°C.

SPECIFICATIONS:

Operating Temperature Range: -40°C ~ 85°C.

Capacitance Tolerance: ±20% (120Hz, +20°C).

Leakage Current: I ≤ 0.03CV + 3(μA) after 5 minutes application of rated working voltage at +20°C.

Low Temperature Characteristics: Impedance ratio max. at 120Hz. Following specified values.

Working Voltage		6.3V	10V	16V	25V	35V	50V
Impedance	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	4	3

ENDURANCE:

Test Conditions: Duration: 2000 hours. Ambient Temperature: +85°C. Applied Voltage: Rated DC working voltage to each polarity for 1000 hours.

Post Test Requirements: +20°C. Leakage Current: ≤Initial specified value. Capacitance Change: ±20% of initial measured value. tan δ: ≤150% of initial specified value.

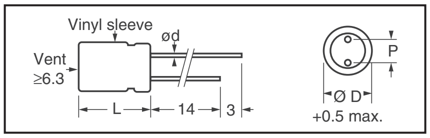

SHELF LIFE:

Test Conditions: Duration: 1000 hours. Ambient Temperature: 85°C. Applied Voltage: none

Post Test Requirements (+20°C): Same limits for "Endurance".

WV	Cap. (μF)	D.C.L. (+20°C/5min.) (μA) max.	tan δ (120Hz/+20°C) (max.)	Ripple Current (mA) rms	Dimensions – mm D	L	P	d	Digi-Key Part No.	Pricing 1	50	100	500	1,000	5,000	Panasonic Part No.
6.3	33	9.2	0.30	80	5	11	2.0	0.5	P1141-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A0JN330U
	47	11.8	0.30	90	5	11	2.0	0.5	P1142-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A0JN470U
	100	21.9	0.30	130	6.3	11.2	2.5	0.5	P1143-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A0JN101U
	220	44.5	0.30	200	8	11.5	3.5	0.6	P1144-ND◆	.47	12.60	21.95	81.30	138.21	121.95/M	ECE-A0JN221U
	330	65.3	0.30	250	8	11.5	3.5	0.6	P1145-ND◆	.53	14.04	24.46	90.60	154.02	135.90/M	ECE-A0JN331U
	470	91.8	0.30	310	10	12.5	5.0	0.6	P1146-ND◆	.73	19.39	33.78	125.10	212.67	187.65/M	ECE-A0JN471X
	1000	192.0	0.30	430	10	20	5.0	0.6	P1147-ND◆	.80	25.33	43.62	168.84	290.78	257.95/M	ECE-A0JN102U
	2200	418.8	0.30	660	12.5	25	5.0	0.6	P1148-ND◆	1.07	36.60	63.34	239.28	422.25	380.03/M	ECE-A0JN222U
	3300	626.7	0.30	760	16	25	7.5	0.8	P1149-ND◆	1.37	46.76	80.93	305.75	539.55	485.60/M	ECE-A0JN332U
	4700	891.3	0.30	1170	16	31.5	7.5	0.8	P1150-ND◆	1.70	60.05	105.08	400.32	700.56	650.52/M	ECE-A0JN472U
	6800	1288.2	0.30	1450	18	35.5	7.5	0.8	P1151-ND◆	2.39	84.44	147.78	562.96	985.18	914.81/M	ECE-A0JN682U
10	22	9.6	0.25	60	5	11	2.0	0.5	P1152-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1AN220U
	33	12.9	0.25	80	5	11	2.0	0.5	P1153-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1AN330U
	47	17.1	0.25	90	5	11	2.0	0.5	P1154-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1AN470U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1155-ND	.84	31.36	46.06	166.60	265.00	255.00/M	ECE-A1AN101U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1370-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1AN101X
	220	69.0	0.25	200	8	11.5	3.5	0.6	P1156-ND◆	.53	14.04	24.46	90.60	154.02	135.90/M	ECE-A1AN221U
	330	102.0	0.25	280	10	16	5.0	0.6	P1157-ND◆	.73	19.39	33.78	125.10	212.67	187.65/M	ECE-A1AN331U
	470	144.0	0.25	340	10	16	5.0	0.6	P1158-ND◆	.74	21.90	37.54	148.58	250.24	218.96/M	ECE-N1AN471U
	1000	303.0	0.25	470	12.5	20	5.0	0.6	P1159-ND◆	.95	32.51	56.27	212.59	375.15	337.64/M	ECE-A1AN102X
	2200	663.0	0.25	690	16	25	7.5	0.8	P1160-ND◆	1.37	46.76	80.93	305.75	539.55	485.60/M	ECE-A1AN222U
	3300	993.0	0.25	1090	16	31.5	7.5	0.8	P1161-ND◆	1.70	60.05	105.08	400.32	700.56	650.52/M	ECE-A1AN332U
	4700	1413.0	0.25	1200	18	35.5	7.5	0.8	P1162-ND◆	2.39	84.44	147.78	562.96	985.18	914.81/M	ECE-A1AN472U
16	10	7.8	0.20	40	5	11	2.0	0.5	P1163-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1CN100U
	22	13.5	0.20	60	5	11	2.0	0.5	P1164-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1CN220U
	33	18.8	0.20	80	5	11	2.0	0.5	P1165-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1CN330U
	47	25.5	0.20	100	6.3	11.2	2.5	0.5	P1166-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1CN470U
	100	51.0	0.20	180	8	11.5	3.5	0.6	P1167-ND◆	.53	14.04	24.46	90.60	154.02	135.90/M	ECE-A1CN101U
	220	108.6	0.20	260	10	12.5	5.0	0.6	P1168-ND◆	.73	19.39	33.78	125.10	212.67	187.65/M	ECE-A1CN221X
	330	161.4	0.20	330	10	16	5.0	0.6	P1169-ND◆	.74	21.90	37.54	148.58	250.24	218.96/M	ECE-A1CN331U
	470	228.6	0.20	380	10	20	5.0	0.6	P1170-ND◆	.80	25.33	43.62	168.84	290.78	257.95/M	ECE-A1CN471U
	1000	483.0	0.20	560	12.5	25	5.0	0.6	P1171-ND◆	1.19	40.64	70.34	265.71	468.90	422.01/M	ECE-A1CN102U
	2200	1059.0	0.20	750	16	31.5	7.5	0.8	P1172-ND◆	1.70	60.05	105.08	400.32	700.56	650.52/M	ECE-A1CN222U
	3300	1587.0	0.20	900	18	35.5	7.5	0.8	P1173-ND◆	2.39	84.44	147.78	562.96	985.18	914.81/M	ECE-A1CN332U
25	3.3	5.4	0.15	20	5	11	2.0	0.5	P1174-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1EN3R3U
	4.7	6.5	0.15	25	5	11	2.0	0.5	P1175-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1EN4R7U
	10	10.5	0.15	45	5	11	2.0	0.5	P1176-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1EN100U
	22	19.5	0.15	60	5	11	2.0	0.5	P1177-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1EN220X
	33	27.7	0.15	90	6.3	11.2	2.5	0.5	P1178-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1EN330U
	47	38.2	0.15	110	6.3	11.2	2.5	0.5	P1179-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1EN470U
	100	78.0	0.15	180	8	11.5	3.5	0.6	P1180-ND◆	.62	16.48	28.70	106.30	180.71	159.45/M	ECE-A1EN101U
	220	168.0	0.15	320	10	16	5.0	0.6	P1181-ND◆	.74	21.90	37.54	148.58	250.24	218.96/M	ECE-A1EN221U
	330	250.5	0.15	350	12.5	20	5.0	0.6	P1182-ND◆	.87	27.45	47.27	182.97	315.12	279.54/M	ECE-A1EN331U
	470	355.5	0.15	430	12.5	20	5.0	0.6	P1183-ND◆	.95	32.51	56.27	212.59	375.15	337.64/M	ECE-A1EN471U
	1000	753.0	0.15	680	16	25	7.5	0.8	P1184-ND◆	1.66	56.91	98.51	372.13	656.70	591.03/M	ECE-A1EN102U
	2200	1653.0	0.15	900	18	35.5	7.5	0.8	P1185-ND◆	2.39	84.44	147.78	562.96	985.18	914.81/M	ECE-A1EN222U
35	4.7	7.9	0.15	30	5	11	2.0	0.5	P1186-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1VN4R7U
	10	13.5	0.15	43	5	11	2.0	0.5	P1187-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1VN100U
	22	26.1	0.15	80	6.3	11.2	2.5	0.5	P1188-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1VN220U
	33	37.6	0.15	100	8	11.5	3.5	0.6	P1189-ND◆	.53	14.04	24.46	90.60	154.02	135.90/M	ECE-A1VN330U
	47	52.3	0.15	120	8	11.5	3.5	0.6	P1190-ND◆	.62	16.48	28.70	106.30	180.71	159.45/M	ECE-A1VN470U
	100	108.0	0.15	230	10	16	5.0	0.6	P1191-ND◆	.74	21.90	37.54	148.58	250.24	218.96/M	ECE-A1VN101U
	220	234.0	0.15	360	12.5	20	5.0	0.6	P1192-ND◆	.87	27.45	47.27	182.97	315.12	279.54/M	ECE-A1VN221U
	330	349.5	0.15	450	12.5	20	5.0	0.6	P1193-ND◆	.95	32.51	56.27	212.59	375.15	337.64/M	ECE-A1VN331U
	470	496.5	0.15	590	12.5	25	5.0	0.6	P1194-ND◆	1.19	40.64	70.34	265.71	468.90	422.01/M	ECE-A1VN471U
50	0.47	3.7	0.15	10	5	11	2.0	0.5	P1195-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1HNR47U
	1	4.5	0.15	10	5	11	2.0	0.5	P1196-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1HN010U
	2.2	6.3	0.15	18	5	11	2.0	0.5	P1197-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1HN2R2U
	3.3	7.9	0.15	25	5	11	2.0	0.5	P1198-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1HN3R3U
	4.7	10.0	0.15	30	5	11	2.0	0.5	P1199-ND◆	.30	7.39	12.66	47.48	80.18	71.74/M	ECE-A1HN4R7U
	10	18.0	0.15	50	6.3	11.2	2.5	0.5	P1280-ND◆	.47	11.50	19.71	73.91	124.83	111.69/M	ECE-A1HN100U
	22	36.0	0.15	90	8	11.5	3.5	0.6	P1281-ND◆	.53	14.04	24.46	90.60	154.02	135.90/M	ECE-A1HN220U
	33	52.5	0.15	110	8	11.5	3.5	0.6	P1282-ND◆	.62	16.48	28.70	106.30	180.71	159.45/M	ECE-A1HN330U
	47	73.5	0.15	140	10	12.5	5.0	0.6	P1283-ND◆	.63	18.62	31.92	126.35	212.80	186.20/M	ECE-A1HN470U
	100	153.0	0.15	250	10	20	5.0	0.6	P1284-ND◆	.80	25.33	43.62	168.84	290.78	257.95/M	ECE-A1HN101U
	220	333.0	0.15	360	12.5	25	5.0	0.6	P1285-ND◆	1.07	36.60	63.34	239.28	422.25	380.03/M	ECE-A1HN221U
	330	498.0	0.15	450	16	25	7.5	0.8	P1286-ND◆	1.37	46.76	80.93	305.75	539.55	485.60/M	ECE-A1HN331U
	470	708.0	0.15	590	16	31.5	7.5	0.8	P1287-ND◆	1.70	60.05	105.08	400.32	700.56	650.52/M	ECE-A1HN471U

◆ ***RoHS Compliant***

Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

Ammo Box Packaging

PANASONIC M SERIES CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK; **Elna:** RE3;
Nitsuko: MK; **Sanyo:** HC/HPC

FEATURES: • Miniaturized size version for general purpose use • Life: 2000 hours at 85°C • Vent construction for ≥ Ø6.3 mm products

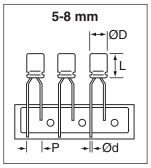
5-8 mm

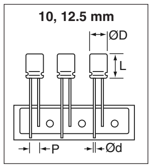
10, 12.5 mm

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 50 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.47 ~ 2200 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50
tan δ	0.28	0.24	0.20	0.16	0.14	0.12

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50
-25°C/20°C	5	4	3	2	2	2
-40°C/20°C	12	10	8	5	4	3

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	Cap (µF)	Leakage Current (µA)	tan δ Maximum	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Panasonic Part No.
					ØD	L	P	Ød		500	1,000	2,000	
6.3	220	13.8	0.28	240	5	11	5.0	0.5	P10357TB-ND	—	—	39.38/M	ECA-0JM221B
	220	13.8	0.28	240	5	11	2.5	0.5	P10401TB-ND	—	—	39.38/M	ECA-0JM221I
	470	29.6	0.28	380	6.3	11.2	5.0	0.5	P10358TB-ND	—	—	56.20/M	ECA-0JM471B
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P10402TB-ND	—	—	56.20/M	ECA-0JM471I
	1000	63	0.28	580	8	11.5	5.0	0.6	P10359TB-ND	—	86.07	—	ECA-0JM102B
	1000	63	0.28	580	8	11.5	3.5	0.6	P10403TB-ND	—	86.07	—	ECA-0JM102BJ
	2200	138.6	0.3	890	10	16	5.0	0.6	P10360TB-ND	79.80	135.66	—	ECA-0JM222B
	3300	207.9	0.32	1020	10	20	5.0	0.6	P10361TB-ND	109.50	186.15	—	ECA-0JM332B
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P10362TB-ND	148.58	250.24	—	ECA-0JM472B
10	100	10	0.24	150	5	11	5.0	0.5	P10363TB-ND	—	—	39.38/M	ECA-1AM101B
	100	10	0.24	150	5	11	2.5	0.5	P10404TB-ND	—	—	39.38/M	ECA-1AM101I
	220	22	0.24	250	5	11	5.0	0.5	P10364TB-ND	—	—	56.20/M	ECA-1AM221B
	220	22	0.24	250	6.3	11.2	2.5	0.5	P10405TB-ND	—	—	56.20/M	ECA-1AM221I
	330	33	0.24	330	6.3	11.2	5.0	0.5	P10365TB-ND	—	—	56.20/M	ECA-1AM331B
	330	33	0.24	330	6.3	11.2	2.5	0.5	P10406TB-ND	—	—	56.20/M	ECA-1AM331I
	470	47	0.24	400	8	11.5	5.0	0.6	P10366TB-ND	—	86.07	—	ECA-1AM471B
	470	47	0.24	400	8	11.5	3.5	0.6	P10407TB-ND	—	86.07	—	ECA-1AM471BJ
	1000	100	0.24	630	10	12.5	5.0	0.6	P10367TB-ND	68.51	115.71	—	ECA-1AM102B
	2200	220	0.26	920	10	20	5.0	0.6	P10368TB-ND	109.50	186.15	—	ECA-1AM222B
16	100	16	0.2	180	5	11	5.0	0.5	P10369TB-ND	—	—	44.88/M	ECA-1CM101B
	100	16	0.2	180	5	11	2.5	0.5	P10408TB-ND	—	—	44.88/M	ECA-1CM101I
	220	35.2	0.2	280	6.3	11.2	5.0	0.5	P10370TB-ND	—	—	56.20/M	ECA-1CM221B
	220	35.2	0.2	280	6.3	11.2	2.5	0.5	P10409TB-ND	—	—	56.20/M	ECA-1CM221I
	330	52.8	0.3	350	8	11.5	5.0	0.6	P10371TB-ND	—	86.07	—	ECA-1CM331B
	330	52.8	0.3	350	8	11.5	3.5	0.6	P10410TB-ND	—	86.07	—	ECA-1CM331BJ
	470	75.2	0.2	440	8	11.5	5.0	0.6	P10372TB-ND	—	86.07	—	ECA-1CM471B
	470	75.2	0.2	440	8	11.5	3.5	0.6	P10411TB-ND	—	86.07	—	ECA-1CM471BJ
	1000	160	0.2	680	10	16	5.0	0.6	P10373TB-ND	79.80	186.15	—	ECA-1CM102B
	2200	352	0.22	1000	12.5	20	5.0	0.6	P10374TB-ND	148.58	250.24	—	ECA-1CM222B
25	47	11.7	0.16	130	5	11	5.0	0.5	P10375TB-ND	—	—	44.88/M	ECA-1EM470B
	47	11.7	0.16	130	5	11	2.5	0.5	P10412TB-ND	—	—	44.88/M	ECA-1EM470I
	100	25	0.16	180	6.3	11.2	5.0	0.5	P10376TB-ND	—	—	56.20/M	ECA-1EM101B
	100	25	0.16	180	6.3	11.2	2.5	0.5	P10413TB-ND	—	—	56.20/M	ECA-1EM101I
	220	55	0.16	310	8	11.5	5.0	0.6	P10377TB-ND	—	86.07	—	ECA-1EM221B
	220	55	0.16	310	8	11.5	3.5	0.6	P10414TB-ND	—	86.07	—	ECA-1EM221BJ
	330	82.5	0.16	390	8	11.5	5.0	0.6	P10378TB-ND	—	86.07	—	ECA-1EM331B
	330	82.5	0.16	390	8	11.5	3.5	0.6	P10415TB-ND	—	86.07	—	ECA-1EM331BJ
	470	117.5	0.16	480	10	12.5	5.0	0.6	P10379TB-ND	70.30	119.51	—	ECA-1EM471B
	1000	250	0.16	850	10	20	5.0	0.6	P10380TB-ND	117.30	199.41	—	ECA-1EM102B
35	33	11.5	0.14	110	5	11	5.0	0.5	P10381TB-ND	—	—	44.88/M	ECA-1VM330B
	33	11.5	0.14	110	5	11	2.5	0.5	P10416TB-ND	—	—	44.88/M	ECA-1VM330I
	47	16.4	0.14	130	5	11	5.0	0.5	P10382TB-ND	—	—	44.88/M	ECA-1VM470B
	47	16.4	0.14	130	5	11	2.5	0.5	P10417TB-ND	—	—	44.88/M	ECA-1VM470I
	100	35	0.14	210	6.3	11.2	5.0	0.5	P10383TB-ND	—	—	56.20/M	ECA-1VM101B
	100	35	0.14	210	6.3	11.2	2.5	0.5	P10418TB-ND	—	—	56.20/M	ECA-1VM101I
	220	77	0.14	350	8	11.5	5.0	0.6	P10384TB-ND	—	86.07	—	ECA-1VM221B
	220	77	0.14	350	8	11.5	3.5	0.6	P10419TB-ND	—	86.07	—	ECA-1VM221BJ
	330	115.5	0.14	440	10	12.5	5.0	0.6	P10385TB-ND	70.30	119.51	—	ECA-1VM331B
	470	164.5	0.14	550	10	16	5.0	0.6	P10386TB-ND	81.30	138.21	—	ECA-1VM471B
	1000	350	0.14	900	12.5	20	5.0	0.6	P10387TB-ND	163.31	275.04	—	ECA-1VM102B
50	0.47	3	0.12	5	5	11	5.0	0.5	P10388TB-ND	—	—	39.38/M	ECA-1HMR47B
	0.47	3	0.12	5	5	11	2.5	0.5	P10420TB-ND	—	—	39.38/M	ECA-1HMR47I
	1	3	0.12	10	5	11	5.0	0.5	P10389TB-ND	—	—	39.38/M	ECA-1HM010B
	1	3	0.12	10	5	11	2.5	0.5	P10421TB-ND	—	—	39.38/M	ECA-1HM010I
	2.2	3	0.12	20	5	11	5.0	0.5	P10390TB-ND	—	—	39.38/M	ECA-1HM2R2B
	2.2	3	0.12	20	5	11	2.5	0.5	P10422TB-ND	—	—	39.38/M	ECA-1HM2R2I
	3.3	3	0.12	35	5	11	5.0	0.5	P10391TB-ND	—	—	39.38/M	ECA-1HM3R3B
	3.3	3	0.12	35	5	11	2.5	0.5	P10423TB-ND	—	—	39.38/M	ECA-1HM3R3I
	4.7	3	0.12	45	5	11	5.0	0.5	P10392TB-ND	—	—	39.38/M	ECA-1HM4R7B
	4.7	3	0.12	45	5	11	2.5	0.5	P10424TB-ND	—	—	39.38/M	ECA-1HM4R7I
	10	5	0.12	65	5	11	5.0	0.5	P10393TB-ND	—	—	39.38/M	ECA-1HM100B
	10	5	0.12	65	5	11	2.5	0.5	P10425TB-ND	—	—	39.38/M	ECA-1HM100I
	22	11	0.12	100	5	11	5.0	0.5	P10394TB-ND	—	—	44.88/M	ECA-1HM220B
	22	11	0.12	100	5	11	2.5	0.5	P10426TB-ND	—	—	44.88/M	ECA-1HM220I
	33	16.5	0.12	110	5	11	5.0	0.5	P10395TB-ND	—	—	44.88/M	ECA-1HM330B
	33	16.5	0.12	110	5	11	2.5	0.5	P10427TB-ND	—	—	44.88/M	ECA-1HM330I
	47	23.5	0.12	130	6.3	11.2	5.0	0.5	P10396TB-ND	—	—	56.20/M	ECA-1HM470B
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P10428TB-ND	—	—	56.20/M	ECA-1HM470I
	100	50	0.12	250	8	11.5	5.0	0.6	P10397TB-ND	—	86.07	—	ECA-1HM101B
	100	50	0.12	250	8	11.5	3.5	0.6	P10429TB-ND	—	86.07	—	ECA-1HM101BJ
	220	11	0.12	400	10	12.5	5.0	0.6	P10398TB-ND	75.10	127.67	—	ECA-1HM221B
	330	165	0.12	500	10	16	5.0	0.6	P10399TB-ND	86.00	146.20	—	ECA-1HM331B
	470	235	0.12	650	10	20	5.0	0.6	P10400TB-ND	117.30	199.41	—	ECA-1HM471B

Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

PANASONIC M SERIES
CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK;
Elna: RE3; **Nitsuko:** MK;
Sanyo: HC/HPC

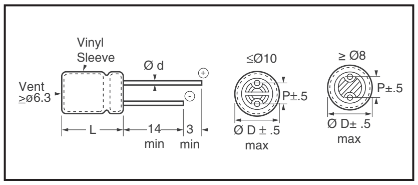

FEATURES:

- Miniaturized size version for general purpose use
- Life: 2000 hours at +85°C
- Vent construction for ≥ø6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 100 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.33 ~ 22000 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
-25°C/20°C	5	4	3	2	2	2	2	2	2	3	6
-40°C/20°C	12	10	8	5	4	3	3	3	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	**Cap. (µF)**	**Leakage Current (µA)**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**50**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	130	5	11	2.0	0.5	P5111-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-0JM101
	220	13.8	0.28	240	5	11	2.0	0.5	P5112-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-0JM221
	330	20.7	0.28	300	6.3	11.2	2.5	0.5	P5113-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-0JM331
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P5114-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-0JM471
	1000	63.0	0.28	580	8	11.5	3.5	0.6	P5115-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-0JM102
	2200	138.6	0.30	890	10	16	5.0	0.6	P5116-ND	.46	12.37	21.55	79.80	135.66	119.70/M	ECA-0JM222
	3300	207.9	0.32	1020	10	20	5.0	0.6	P5117-ND	.64	16.97	29.57	109.50	186.15	164.25/M	ECA-0JM332
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P5118-ND	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-0JM472
	6800	428.4	0.38	1270	12.5	25	5.0	0.6	P5119-ND	.90	28.49	49.06	189.90	327.05	290.13/M	ECA-0JM682
	10000	630.0	0.46	1450	16	25	7.5	0.8	P5120-ND	1.01	34.55	59.81	225.93	398.70	358.83/M	ECA-0JM103
	15000	945.0	0.56	1700	16	31.5	7.5	0.8	P5121-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-0JM153
	22000	1386.0	0.70	1900	18	35.5	7.5	0.8	P5122-ND	1.86	65.68	114.93	437.84	766.22	711.49/M	ECA-0JM223
10	100	10.0	0.24	150	5	11	2.0	0.5	P5123-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1AM101
	220	22.0	0.24	250	6.3	11.2	2.5	0.5	P5124-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1AM221
	330	33.0	0.24	330	6.3	11.2	2.5	0.5	P5125-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1AM331
	470	47.0	0.24	400	8	11.5	3.5	0.6	P5126-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1AM471
	1000	100.0	0.24	630	10	12.5	5.0	0.6	P5127-ND	.44	10.66	18.27	68.51	115.71	103.53/M	ECA-1AM102
	2200	220.0	0.26	920	10	20	5.0	0.6	P5128-ND	.64	16.97	29.57	109.50	186.15	164.25/M	ECA-1AM222
	3300	330.0	0.28	1090	12.5	20	5.0	0.6	P5129-ND	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-1AM332
	4700	470.0	0.30	1200	12.5	25	5.0	0.6	P5130-ND	.90	28.49	49.06	189.90	327.05	290.13/M	ECA-1AM472
	6800	680.0	0.34	1400	16	25	7.5	0.8	P5131-ND	1.01	34.55	59.81	225.93	398.70	358.83/M	ECA-1AM682
	10000	1000.0	0.42	1600	16	31.5	7.5	0.8	P5132-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-1AM103
	15000	1500.0	0.52	1850	18	35.5	7.5	0.8	P5133-ND	1.86	65.68	114.93	437.84	766.22	711.49/M	ECA-1AM153
16	10	3.0	0.20	30	5	11	2.0	0.5	P5134-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1CM100
	22	3.5	0.20	75	5	11	2.0	0.5	P5135-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1CM220
	33	5.2	0.20	110	5	11	2.0	0.5	P5136-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1CM330
	47	7.5	0.20	130	5	11	2.0	0.5	P5137-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1CM470
	100	16.0	0.20	180	5	11	2.0	0.5	P5138-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1CM101
	220	35.2	0.20	280	6.3	11.2	2.5	0.5	P5139-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1CM221
	330	52.8	0.20	350	8	11.5	3.5	0.6	P5140-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1CM331
	470	75.2	0.20	440	8	11.5	3.5	0.6	P5141-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1CM471
	1000	160.0	0.20	680	10	16	5.0	0.6	P5142-ND	.46	12.37	21.55	79.80	135.66	119.70/M	ECA-1CM102
	2200	352.0	0.22	1000	12.5	20	5.0	0.6	P5143-ND	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-1CM222
	3300	528.0	0.24	1200	12.5	25	5.0	0.6	P5144-ND	.90	28.49	49.06	189.90	327.05	290.13/M	ECA-1CM332
	4700	752.0	0.26	1360	16	25	7.5	0.8	P5145-ND	1.01	34.55	59.81	225.93	398.70	358.83/M	ECA-1CM472
	6800	1088.0	0.30	1600	16	31.5	7.5	0.8	P5146-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-1CM682
	10000	1600.0	0.38	1800	18	35.5	7.5	0.8	P5147-ND	1.86	65.68	114.93	437.84	766.22	711.49/M	ECA-1CM103
25	10	3.0	0.16	50	5	11	2.0	0.5	P5148-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1EM100
	22	5.5	0.16	90	5	11	2.0	0.5	P5149-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1EM220
	33	8.2	0.16	110	5	11	2.0	0.5	P5150-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1EM330
	47	11.7	0.16	130	5	11	2.0	0.5	P5151-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1EM470
	100	25.0	0.16	180	6.3	11.2	2.5	0.5	P5152-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1EM101
	220	55.0	0.16	310	8	11.5	3.5	0.6	P5153-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1EM221
	330	82.5	0.16	390	8	11.5	3.5	0.6	P5154-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1EM331
	470	117.5	0.16	480	10	12.5	5.0	0.6	P5155-ND	.41	10.90	18.98	70.30	119.51	105.45/M	ECA-1EM471
	1000	250.0	0.16	850	10	20	5.0	0.6	P5156-ND	.68	18.18	31.67	117.30	199.41	175.95/M	ECA-1EM102
	2200	550.0	0.18	1200	12.5	25	5.0	0.6	P5157-ND	.90	28.49	49.06	189.90	327.05	290.13/M	ECA-1EM222
	3300	825.0	0.20	1300	16	25	7.5	0.8	P5158-ND	1.13	38.62	66.85	252.54	445.65	401.09/M	ECA-1EM332
	4700	1175.0	0.22	1500	16	31.5	7.5	0.8	P5159-ND	1.55	52.86	91.49	345.61	609.90	548.91/M	ECA-1EM472
	6800	1700.0	0.26	1750	18	35.5	7.5	0.8	P5160-ND	2.02	71.29	124.76	475.28	831.74	772.33/M	ECA-1EM682
35	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1VM220

(Continued)

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	50	100	500	1,000	5,000	
35	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1VM221
	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.41	10.90	18.98	70.30	119.51	105.45/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.47	12.60	21.95	81.30	138.21	121.95/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	1.13	38.62	66.85	252.54	445.65	401.09/M	ECA-1VM222
	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	1.55	52.86	91.49	345.61	609.90	548.91/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	2.02	71.29	124.76	475.28	831.74	772.33/M	ECA-1VM472
50	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HM4R7
	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND†	.20	4.03	6.80	23.27	41.17	35.80/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND†	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1HM220
	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND†	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND†	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND†	.33	7.93	13.59	50.96	86.07	77.01/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND†	.44	11.64	20.28	75.10	127.67	112.65/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND†	.48	12.96	22.57	83.60	142.12	125.40/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND†	.68	18.18	31.67	117.30	199.41	175.95/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND†	.94	29.55	50.89	197.01	339.30	300.99/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND†	1.64	56.25	97.36	367.80	649.05	584.15/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND†	2.02	71.29	124.76	475.28	831.74	772.33/M	ECA-1HM332
63	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1JM100
	22	13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.22	4.59	7.75	26.52	46.92	40.80/M	ECA-1JM220
	33	20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1JM330
	47	29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.27	6.10	10.37	36.60	64.05	56.43/M	ECA-1JM470
	100	63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.39	9.59	16.44	61.65	104.12	93.16/M	ECA-1JM101
	220	138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.50	13.33	23.22	86.00	146.20	129.00/M	ECA-1JM221
	330	207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.71	18.91	32.94	122.00	207.40	183.00/M	ECA-1JM331
	470	296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	.80	25.33	43.62	168.84	290.78	257.95/M	ECA-1JM471
	1000	630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	1.13	38.62	66.85	252.54	445.65	401.09/M	ECA-1JM102
	2200	1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	2.13	75.06	131.36	500.40	875.70	813.15/M	ECA-1JM222
100	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.24	4.93	8.32	28.47	50.37	43.80/M	ECA-2AM100
	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.27	6.10	10.37	36.60	64.05	56.43/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.39	9.59	16.44	61.65	104.12	93.16/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.42	10.13	17.37	65.14	110.01	98.43/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.56	15.04	26.19	97.00	164.90	145.50/M	ECA-2AM101
	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	.84	26.39	45.45	175.95	303.03	268.82/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	.95	32.51	56.27	212.59	375.15	337.64/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	2.45	86.30	151.03	575.36	1006.88	934.96/M	ECA-2AM102
160	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.41	10.90	18.98	70.30	119.51	105.45/M	ECA-2CM100
	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.50	13.33	23.22	86.00	146.20	129.00/M	ECA-2CM220
	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	.59	15.75	27.43	101.60	172.72	152.40/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	.94	29.55	50.89	197.01	339.30	300.99/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	1.49	50.80	87.93	332.18	586.20	527.58/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	2.55	90.06	157.61	600.40	1050.70	975.65/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	3.35	118.20	206.85	788.00	1379.00	1280.50/M	ECA-2CM471
250	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.33	7.50	12.75	45.00	78.75	69.38/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.39	9.59	16.44	61.65	104.12	93.16/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.39	9.59	16.44	61.65	104.12	93.16/M	ECA-2EM4R7
	10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.50	13.33	23.22	86.00	146.20	129.00/M	ECA-2EM100
	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	.65	17.45	30.40	112.60	191.42	168.90/M	ECA-2EM220
	33	505.0	0.18	250	12.5	20	5.0	0.6	P5336-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-2EM330
	47	715.0	0.18	330	12.5	25	5.0	0.6	P5337-ND	.94	29.55	50.89	197.01	339.30	300.99/M	ECA-2EM470
	100	1510.0	0.18	530	16	31.5	7.5	0.8	P5338-ND	1.49	50.80	87.93	332.18	586.20	527.58/M	ECA-2EM101
	220	3310.0	0.18	930	18	40	7.5	0.8	P5339-ND	3.35	118.20	206.85	788.00	1379.00	1280.50/M	ECA-2EM221
450	1.0	37.0	0.20	37	8	11.5	3.5	0.6	P5340-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECA-2WM010
	2.2	69.4	0.20	44	10	12.5	5.0	0.6	P5341-ND	.47	12.60	21.95	81.30	138.21	121.95/M	ECA-2WM2R2
	3.3	99.1	0.20	60	10	16	5.0	0.6	P5342-ND	.54	14.54	25.33	93.80	159.46	140.70/M	ECA-2WM3R3
	4.7	136.0	0.20	79	10	20	5.0	0.6	P5343-ND	.68	18.18	31.67	117.30	199.41	175.95/M	ECA-2WM4R7
	10	280.0	0.20	130	12.5	20	5.0	0.6	P5344-ND	.84	26.39	45.45	175.95	303.03	268.82/M	ECA-2WM100
	22	604.0	0.20	210	16	25	7.5	0.8	P5345-ND	1.31	44.72	77.40	292.40	516.00	464.40/M	ECA-2WM220
	33	901.0	0.20	285	16	31.5	7.5	0.8	P5346-ND	1.66	56.91	98.51	372.13	656.70	591.03/M	ECA-2WM330

† M-KIT-ND ***Digi-Key® M Series Capacitors Kit*** 10 each of values denoted. 170 total pieces. Includes notebook style storage case and bin storage guide **$69.95**

Panasonic® NHG Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

Panasonic NHG Series Cross References:
Nippon Chemicon: KMG; **Nichicon:** VZ;
Elna: RJ4; **Rubycon:** YXA

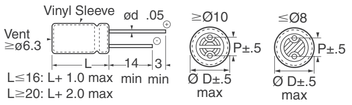

FEATURES:

- Compact size (same case size with series M)
- Life: 1000 ~ 2000 hours at +105°C

SPECIFICATIONS:

Operating Temperature Range	-55°C ~ 105°C	-25°C ~ 105°C
Rated Working Voltage Range	6.3 ~ 100VDC	160 ~ 450VDC
Nominal Capacitance Range	0.1 ~ 22000 µF	1.0 ~ 330 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I ≤ 0.01 CV µA or 3µA, whichever is greater after 2 minutes application of rated working voltage at 20°C.	I ≤ 0.06 CV + 10µA after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.24

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Ripple Current: 120 Hz, 105°C

W.V. (V.DC)	**Cap (µF)**	**Frequency (Hz)**				
		60	**120**	**1k**	**10k**	**100k**
6.3 ~ 100	**0.1~ 33**	0.75	1	1.55	1.80	2.00
	47 ~ 470	0.80	1	1.35	1.50	1.50
	1000 ~ 22000	0.85	1	1.10	1.15	1.15
160 ~ 450	**1.0 ~ 330**	0.80	1	1.35	1.50	1.50

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours*	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 200% initial specified value

* 1000 Hours for ≤ Ø8mm products.

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 200% initial specified value

WV (VDC)	**Cap. µF**	**D.C.L. (+20°C) (µA) max.**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**50**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	91	5	11	2.0	0.5	P5505-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-0JHG101
	220	13.8	0.28	140	5	11	2.0	0.5	P5506-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-0JHG221
	330	20.7	0.28	190	6.3	11.2	2.5	0.5	P5507-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-0JHG331
	470	29.6	0.28	230	6.3	11.2	2.5	0.5	P5508-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-0JHG471
	1000	63.0	0.28	380	8	11.5	3.5	0.6	P5509-ND	.50	12.04	20.64	77.40	130.72	116.96/M	ECA-0JHG102
	2200	138.6	0.30	710	10	16	5.0	0.6	P5510-ND	.69	18.41	32.08	118.80	201.96	178.20/M	ECA-0JHG222
	3300	207.9	0.32	840	10	20	5.0	0.6	P5511-ND	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-0JHG332
	4700	296.1	0.34	1090	12.5	20	5.0	0.6	P5512-ND	.87	27.45	47.27	182.97	315.12	279.54/M	ECA-0JHG472
	6800	428.4	0.38	1350	12.5	25	5.0	0.6	P5513-ND	.98	33.55	58.07	219.39	387.15	348.44/M	ECA-0JHG682
	10000	630.0	0.46	1650	16	25	7.5	0.8	P5514-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-0JHG103
	15000	945.0	0.56	2010	16	31.5	7.5	0.8	P5515-ND	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-0JHG153
	22000	1386.0	0.70	2350	18	35.5	7.5	0.8	P5516-ND	2.39	84.44	147.78	562.96	985.18	914.81/M	ECA-0JHG223
10	100	10.0	0.24	110	5	11	2.0	0.5	P5517-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1AHG101
	220	22.0	0.24	170	6.3	11.2	2.5	0.5	P5518-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1AHG221
	330	33.0	0.24	200	6.3	11.2	2.5	0.5	P5519-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1AHG331
	470	47.0	0.24	250	8	11.5	3.5	0.6	P5520-ND	.45	10.94	18.75	70.31	118.75	106.25/M	ECA-1AHG471
	1000	100.0	0.24	460	10	12.5	5.0	0.6	P5521-ND	.54	14.54	25.33	93.80	159.46	140.70/M	ECA-1AHG102
	2200	220.0	0.26	760	10	20	5.0	0.6	P5522-ND	.71	20.79	35.64	141.08	237.60	207.90/M	ECA-1AHG222
	3300	330.0	0.28	1000	12.5	20	5.0	0.6	P5523-ND	.87	27.45	47.27	182.97	315.12	279.54/M	ECA-1AHG332
	4700	470.0	0.30	1260	12.5	25	5.0	0.6	P5524-ND	1.04	35.57	61.56	232.56	410.40	369.36/M	ECA-1AHG472
	6800	680.0	0.34	1570	16	25	7.5	0.8	P5525-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-1AHG682
	10000	1000.0	0.42	1890	16	31.5	7.5	0.8	P5526-ND	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-1AHG103
	15000	1500.0	0.52	2180	18	35.5	7.5	0.8	P5527-ND	2.39	84.44	147.78	562.96	985.18	914.81/M	ECA-1AHG153
16	47	7.5	0.20	77	5	11	2.0	0.5	P5528-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1CHG470
	100	16.0	0.20	110	5	11	2.0	0.5	P5529-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1CHG101
	220	35.2	0.20	180	6.3	11.2	2.5	0.5	P5530-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1CHG221
	330	52.8	0.20	260	8	11.5	3.5	0.6	P5531-ND	.45	10.94	18.75	70.31	118.75	106.25/M	ECA-1CHG331
	470	75.2	0.20	310	8	11.5	3.5	0.6	P5532-ND	.50	12.04	20.64	77.40	130.72	116.96/M	ECA-1CHG471
	1000	160.0	0.20	560	10	16	5.0	0.6	P5533-ND	.69	18.41	32.08	118.80	201.96	178.20/M	ECA-1CHG102
	2200	352.0	0.22	920	12.5	20	5.0	0.6	P5534-ND	.87	27.45	47.27	182.97	315.12	279.54/M	ECA-1CHG222
	3300	528.0	0.24	1170	12.5	25	5.0	0.6	P5535-ND	1.04	35.57	61.56	232.56	410.40	369.36/M	ECA-1CHG332
	4700	752.0	0.26	1480	16	25	7.5	0.8	P5536-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-1CHG472
	6800	1088.0	0.30	1780	16	31.5	7.5	0.8	P5537-ND	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-1CHG682
	10000	1600.0	0.38	2060	18	35.5	7.5	0.8	P5538-ND	2.39	84.44	147.78	562.96	985.18	914.81/M	ECA-1CHG103
25	47	11.7	0.16	91	5	11	2.0	0.5	P5539-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1EHG470
	100	25.0	0.16	130	6.3	11.2	2.5	0.5	P5540-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1EHG101
	220	55.0	0.16	230	8	11.5	3.5	0.6	P5541-ND	.45	10.94	18.75	70.31	118.75	106.25/M	ECA-1EHG221
	330	82.5	0.16	310	8	11.5	3.5	0.6	P5542-ND	.42	11.16	19.44	72.00	122.40	108.00/M	ECA-1EHG331
	470	117.5	0.16	380	10	12.5	5.0	0.6	P5543-ND	.57	15.28	26.62	98.60	167.62	147.90/M	ECA-1EHG471
	1000	250.0	0.16	680	10	20	5.0	0.6	P5544-ND	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-1EHG102
	2200	550.0	0.18	1090	12.5	25	5.0	0.6	P5545-ND	1.04	35.57	61.56	232.56	410.40	369.36/M	ECA-1EHG222
	3300	825.0	0.20	1400	16	25	7.5	0.8	P5546-ND	1.52	51.84	89.73	338.98	598.20	538.38/M	ECA-1EHG332
	4700	1175.0	0.22	1750	16	31.5	7.5	0.8	P5547-ND	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-1EHG472
	6800	1700.0	0.26	2040	18	35.5	7.5	0.8	P5548-ND	2.50	88.18	154.31	587.84	1028.72	955.24/M	ECA-1EHG682
35	33	11.5	0.14	75	5	11	2.0	0.5	P5549-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1VHG330
	47	16.4	0.14	90	5	11	2.0	0.5	P5550-ND	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1VHG470
	100	35.0	0.14	150	6.3	11.2	2.5	0.5	P5551-ND	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1VHG101
	220	77.0	0.14	270	8	11.5	3.5	0.6	P5552-ND	.42	11.16	19.44	72.00	122.40	108.00/M	ECA-1VHG221
	330	115.5	0.14	350	10	12.5	5.0	0.6	P5553-ND	.57	15.28	26.62	98.60	167.62	147.90/M	ECA-1VHG331
	470	164.5	0.14	460	10	16	5.0	0.6	P5554-ND	.69	18.41	32.08	118.80	201.96	178.20/M	ECA-1VHG471
	1000	350.0	0.14	810	12.5	20	5.0	0.6	P5555-ND	.90	28.49	49.06	189.90	327.05	290.13/M	ECA-1VHG102
	2200	770.0	0.16	1260	16	25	7.5	0.8	P5556-ND	1.52	51.84	89.73	338.98	598.20	538.38/M	ECA-1VHG222
	3300	1155.0	0.18	1610	16	31.5	7.5	0.8	P5557-ND	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-1VHG332
	4700	1645.0	0.20	1910	18	35.5	7.5	0.8	P5558-ND	2.50	88.18	154.31	587.84	1028.72	955.24/M	ECA-1VHG472

(Continued)

WV (VDC)	Cap. µF	D.C.L. (+20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	50	100	500	1,000	5,000	
50	0.1	3.0	0.12	1.1	5	11	2.0	0.5	P5559-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG0R1
	0.22	3.0	0.12	2.3	5	11	2.0	0.5	P5560-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHGR22
	0.33	3.0	0.12	3.5	5	11	2.0	0.5	P5561-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHGR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5562-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHGR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5563-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG010
	2.2	3.0	0.12	18	5	11	2.0	0.5	P5564-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG2R2
	3.3	3.0	0.12	22	5	11	2.0	0.5	P5565-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG3R3
	4.7	3.0	0.12	26	5	11	2.0	0.5	P5566-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG4R7
	10	5.0	0.12	39	5	11	2.0	0.5	P5567-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG100
	22	11.0	0.12	65	5	11	2.0	0.5	P5568-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG220
	33	16.5	0.12	90	5	11	2.0	0.5	P5569-ND†	.23	5.30	9.01	31.80	55.65	49.03/M	ECA-1HHG330
	47	23.5	0.12	110	6.3	11.2	2.5	0.5	P5570-ND†	.30	7.39	12.66	47.48	80.18	71.74/M	ECA-1HHG470
	100	50.0	0.12	180	8	11.5	3.5	0.6	P5571-ND†	.47	11.50	19.71	73.91	124.83	111.69/M	ECA-1HHG101
	220	110.0	0.12	300	10	12.5	5.0	0.6	P5572-ND†	.57	15.28	26.62	98.60	167.62	147.90/M	ECA-1HHG221
	330	165.0	0.12	410	10	16	5.0	0.6	P5573-ND†	.69	18.41	32.08	118.80	201.96	178.20/M	ECA-1HHG331
	470	235.0	0.12	530	10	20	5.0	0.6	P5574-ND†	.74	21.90	37.54	148.58	250.24	218.96/M	ECA-1HHG471
	1000	500.0	0.12	950	12.5	25	5.0	0.6	P5575-ND†	1.04	35.57	61.56	232.56	410.40	369.36/M	ECA-1HHG102
	2200	1100.0	0.14	1470	16	31.5	7.5	0.8	P5576-ND†	1.70	60.05	105.08	400.32	700.56	650.52/M	ECA-1HHG222
	3300	1650.0	0.16	1770	18	35.5	7.5	0.8	P5577-ND	2.50	88.18	154.31	587.84	1028.72	955.24/M	ECA-1HHG332
63	10	6.3	0.10	46	5	11	2.0	0.5	P5578-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1JHG100
	22	13.8	0.10	71	5	11	2.0	0.5	P5579-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-1JHG220
	33	20.7	0.10	100	6.3	11.2	2.5	0.5	P5580-ND	.32	7.67	13.14	49.28	83.22	74.46/M	ECA-1JHG330
	47	29.6	0.10	120	6.3	11.2	2.5	0.5	P5581-ND	.32	7.67	13.14	49.28	83.22	74.46/M	ECA-1JHG470
	100	63.0	0.10	215	10	12.5	5.0	0.6	P5582-ND	.57	15.28	26.62	98.60	167.62	147.90/M	ECA-1JHG101
	220	138.6	0.10	335	10	16	5.0	0.6	P5583-ND	.75	20.10	35.02	129.70	220.49	194.55/M	ECA-1JHG221
	330	207.9	0.10	510	10	20	5.0	0.6	P5584-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-1JHG331
	470	296.1	0.10	640	12.5	20	5.0	0.6	P5585-ND	1.00	31.67	54.54	211.14	363.63	322.58/M	ECA-1JHG471
	1000	630.0	0.10	930	16	25	7.5	0.8	P5586-ND	1.57	53.86	93.22	352.16	621.45	559.31/M	ECA-1JHG102
	2200	1386.0	0.12	1610	18	35.5	7.5	0.8	P5587-ND	2.76	97.56	170.73	650.40	1138.20	1056.90/M	ECA-1JHG222
100	0.47	3.0	0.08	9	5	11	2.0	0.5	P5588-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-2AHGR47
	1.0	3.0	0.08	14	5	11	2.0	0.5	P5589-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-2AHG010
	2.2	3.0	0.08	21	5	11	2.0	0.5	P5590-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-2AHG2R2
	3.3	3.3	0.08	31	5	11	2.0	0.5	P5591-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-2AHG3R3
	4.7	4.7	0.08	38	5	11	2.0	0.5	P5592-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECA-2AHG4R7
	10	10.0	0.08	54	6.3	11.2	2.5	0.5	P5593-ND	.32	7.67	13.14	49.28	83.22	74.46/M	ECA-2AHG100
	22	22.0	0.08	93	6.3	11.2	2.5	0.5	P5594-ND	.32	7.67	13.14	49.28	83.22	74.46/M	ECA-2AHG220
	33	33.0	0.08	130	8	11.5	3.5	0.6	P5595-ND	.44	11.64	20.28	75.10	127.67	112.65/M	ECA-2AHG330
	47	47.0	0.08	165	10	12.5	5.0	0.6	P5596-ND	.53	14.04	24.46	90.60	154.02	135.90/M	ECA-2AHG470
	100	100.0	0.08	265	10	20	5.0	0.6	P5597-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-2AHG101
	220	220.0	0.08	440	12.5	25	5.0	0.6	P5598-ND	1.06	36.18	62.62	236.56	417.45	375.71/M	ECA-2AHG221
	330	330.0	0.08	540	16	25	7.5	0.8	P5599-ND	1.49	50.80	87.93	332.18	586.20	527.58/M	ECA-2AHG331
	470	470.0	0.08	715	16	25	7.5	0.8	P5850-ND	1.78	60.97	105.53	398.65	703.50	633.15/M	ECA-2AHG471
	1000	1000.0	0.08	985	18	35.5	7.5	0.8	P5851-ND	2.76	97.56	170.73	650.40	1138.20	1056.90/M	ECA-2AHG102
160	1.0	19.6	0.15	17	6.3	11.2	2.5	0.5	P5852-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2CHG010
	2.2	31.1	0.15	25	6.3	11.2	2.5	0.5	P5853-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2CHG2R2
	3.3	41.6	0.15	36	6.3	11.2	2.5	0.5	P5854-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2CHG3R3
	4.7	55.1	0.15	43	6.3	11.2	2.5	0.5	P5855-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2CHG4R7
	10	106.0	0.15	70	10	12.5	5.0	0.6	P5856-ND	.53	14.04	24.46	90.60	154.02	135.90/M	ECA-2CHG100
	22	221.0	0.15	130	10	20	5.0	0.6	P5857-ND	.71	18.91	32.94	122.00	207.40	183.00/M	ECA-2CHG220
	33	326.0	0.15	180	10	20	5.0	0.6	P5858-ND	.71	18.91	32.94	122.00	207.40	183.00/M	ECA-2CHG330
	47	461.0	0.15	220	12.5	20	5.0	0.6	P5859-ND	.82	24.07	41.26	163.31	275.04	240.66/M	ECA-2CHG470
	100	970.0	0.15	335	16	25	7.5	0.8	P5860-ND	1.07	36.60	63.34	239.28	422.25	380.03/M	ECA-2CHG101
	220	2122.0	0.15	540	16	31.5	7.5	0.8	P5861-ND	1.66	56.91	98.51	372.13	656.70	591.03/M	ECA-2CHG221
	330	3178.0	0.15	705	18	31.5	7.5	0.8	P5862-ND	2.66	93.82	164.18	625.44	1094.52	1016.34/M	ECA-2CHG331
250	1.0	25.0	0.15	17	6.3	11.2	2.5	0.5	P5863-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2EHG010
	2.2	43.0	0.15	29	6.3	11.2	2.5	0.5	P5864-ND	.34	8.21	14.07	52.76	89.11	79.73/M	ECA-2EHG2R2
	3.3	59.5	0.15	42	8	11.5	3.5	0.6	P5865-ND	.45	10.94	18.75	70.31	118.75	106.25/M	ECA-2EHG3R3
	4.7	80.5	0.15	50	8	11.5	3.5	0.6	P5866-ND	.41	10.90	18.98	70.30	119.51	105.45/M	ECA-2EHG4R7
	10	160.0	0.15	88	10	16	5.0	0.6	P5867-ND	.69	18.41	32.08	118.80	201.96	178.20/M	ECA-2EHG100
	22	340.0	0.15	155	12.5	20	5.0	0.6	P5868-ND	.85	25.19	43.18	170.91	287.84	251.86/M	ECA-2EHG220
	33	505.0	0.15	190	12.5	20	5.0	0.6	P5869-ND	.84	26.39	45.45	175.95	303.03	268.82/M	ECA-2EHG330
	47	715.0	0.15	230	12.5	25	5.0	0.6	P5870-ND	.95	32.51	56.27	212.59	375.15	337.64/M	ECA-2EHG470
	100	1510.0	0.15	365	16	31.5	7.5	0.8	P5871-ND	1.66	56.91	98.51	372.13	656.70	591.03/M	ECA-2EHG101
450	1.0	37.0	0.20	18	8	11.5	3.5	0.6	P5872-ND	.45	12.12	21.11	78.20	132.94	117.30/M	ECA-2WHG010
	2.2	69.4	0.20	29	10	12.5	5.0	0.6	P5873-ND	.54	14.54	25.33	93.80	159.46	140.70/M	ECA-2WHG2R2
	3.3	99.1	0.20	41	10	16	5.0	0.6	P5874-ND	.71	18.91	32.94	122.00	207.40	183.00/M	ECA-2WHG3R3
	4.7	136.0	0.20	49	10	20	5.0	0.6	P5875-ND	.63	18.62	31.92	126.35	212.80	186.20/M	ECA-2WHG4R7
	10	280.0	0.20	75	12.5	20	5.0	0.6	P5876-ND	1.00	31.67	54.54	211.14	363.63	322.58/M	ECA-2WHG100
	22	604.0	0.20	115	16	25	7.5	0.8	P5877-ND	1.43	48.78	84.42	318.92	562.80	506.52/M	ECA-2WHG220
	33	901.0	0.20	155	16	31.5	7.5	0.8	P5878-ND	1.78	60.97	105.53	398.65	703.50	633.15/M	ECA-2WHG330

† NHG-KIT-ND ***Digi-Key® NHG Series Capacitors Kit*** 10 each of values denoted. 180 total pieces. Includes notebook style storage case and bin storage guide **$69.95**

Panasonic® FC Series Radial Lead Aluminum Electrolytic Capacitors

FEATURES:

• Low impedance • Long life: 1000 ~ 5000 hours at 105°C

SPECIFICATIONS:

• **Operating Temperature Range:** -55°C ~ 105°C • **Rated Working Voltage Range:** 6.3 to 100VDC • **Nominal Capacitance Range:** 1.0 ~ 15000µF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at 20°C • **tan δ:** (120Hz, 20°C) For capacitance value > 1000µF, add 0.02 per every 1000µF. • **Impedance at High Frequency:** Refer to standard product table (100kHz, 20°C) • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Working Volt. (V)	6.3	10	16	25	35	50	63	100
tan δ Maximum	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07

Endurance:

Test Conditions — Duration: 1000 hours (for Ø4 ~ Ø6.3mm), 2000 hours (for Ø8mm), 3000 hours (for Ø10mm), 5000 hours (for Ø12.5mm ~ 18mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.) **Post Test Requirements at 20°C — Leakage Current:** ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan δ:** ≤ 200% of initial specified value

Shelf Life:

Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** (none) **Post Test Requirements at 20°C — Leakage Current:** ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan δ:** ≤ 200% of initial specified value

• **Body Color:** Black Blue • **Marking Color:** Gold

Frequency Correction Factor for Ripple Current

W.V. (V DC)	Capacitance (µF)	Frequency (Hz) 60	120	1K	10K	100K
6.3 ~ 100	1.0 ~ 330	0.55	0.65	0.85	0.90	1.00
	390 ~ 1000	0.70	0.75	0.90	0.95	1.00
	1200 ~ 2200	0.75	0.80	0.90	0.95	1.00
	2700 ~ 15000	0.80	0.85	0.95	1.00	1.00

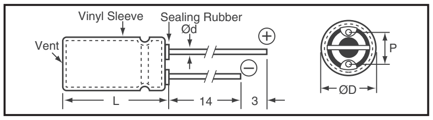

W.V. (V)	Cap. (µF)	Dimensions – mm ØD	L	P	Ød	Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing 1	50	100	500	Panasonic Part No.
6.3	68	4	11	1.5	0.45	4.28	1.30	120	1000	P12700-ND◆	.44	10.76	18.45	69.19	EEU-FC0J680
	100	5	11	2.0	0.50	6.3	0.80	175	1000	P10195-ND◆	.33	7.50	12.75	45.00	EEU-FC0J101
	150	5	15	2.0	0.50	9.4	0.50	235	1000	P10196-ND◆	.49	11.95	20.49	76.84	EEU-FC0J151
	220	6.3	11.2	2.0	0.50	13.86	0.350	290	1000	P12701-ND◆	.34	8.21	14.07	52.76	EEU-FC0J221
	330	6.3	11.2	2.5	0.50	20.7	0.35	290	1000	P10197-ND◆	.34	8.21	14.07	52.76	EEU-FC0J331S
	330	6.3	15	2.5	0.50	20.79	0.250	400	1000	P12702-ND◆	.49	13.21	23.00	85.20	EEU-FC0J331
	390	8	11.5	3.5	0.60	24.57	0.117	555	2000	P12703-ND◆	.48	11.76	20.16	75.60	EEU-FC0J391
	470	8	11.5	3.5	0.60	29.61	0.117	555	2000	P12704-ND◆	.48	11.76	20.16	75.60	EEU-FC0J471
	560	8	11.5	3.5	0.60	35.28	0.117	555	2000	P12705-ND◆	.48	11.76	20.16	75.60	EEU-FC0J561
	820	10	12.5	5.0	0.60	51.66	0.090	755	3000	P12706-ND◆	.54	14.54	25.33	93.80	EEU-FC0J821
	820	8	15	3.5	0.60	51.6	0.085	730	2000	P10198-ND◆	.54	14.54	25.33	93.80	EEU-FC0J821L
	1000	10	12.5	5.0	0.60	63.0	0.090	755	3000	P10199-ND◆	.54	14.54	25.33	93.80	EEU-FC0J102
	1200	10	16	5.0	0.60	75.6	0.068	1050	3000	P10201-ND◆	.73	19.39	33.78	125.10	EEU-FC0J122
	1200	8	20	3.5	0.60	75.6	0.065	995	2000	P10200-ND◆	.64	16.97	29.57	109.50	EEU-FC0J122L
	1500	12.5	15	5.0	0.60	94.5	0.065	1205	5000	P10203-ND	1.03	32.37	55.75	215.82	EEU-FC0J152S
	1500	10	20	5.0	0.60	94.5	0.052	1220	3000	P10202-ND◆	.71	21.00	36.00	142.50	EEU-FC0J152
	1800	10	25	5.0	0.60	113.4	0.045	1440	3000	P12707-ND◆	.80	23.65	40.54	160.46	EEU-FC0J182
	2200	16	15	7.5	0.80	138.6	0.043	1690	5000	P10205-ND◆	1.21	41.42	71.69	270.81	EEU-FC0J222S
	2200	10	25	5.0	0.60	138.6	0.045	1440	3000	P10204-ND◆	.80	23.65	40.54	160.46	EEU-FC0J222
	2700	16	15	7.5	0.80	170.1	0.043	1690	5000	P11175-ND◆	1.21	41.42	71.69	270.81	EEU-FC0J272S
	2700	12.5	20	5.0	0.60	170.1	0.038	1655	5000	P12709-ND◆	.90	28.49	49.06	189.90	EEU-FC0J272
	2700	10	30	5.0	0.60	170.1	0.035	1815	3000	P12708-ND◆	.89	28.07	48.34	187.11	EEU-FC0J272L
	3300	18	15	7.5	0.80	207.9	0.038	2000	5000	P10207-ND◆	1.51	51.60	89.30	337.37	EEU-FC0J332S
	3300	12.5	20	5.0	0.60	207.9	0.038	1655	5000	P10206-ND◆	.90	28.49	49.06	189.90	EEU-FC0J332
	3900	12.5	25	5.0	0.60	245.7	0.030	1945	5000	P10208-ND◆	1.01	34.55	59.81	225.93	EEU-FC0J392
	4700	16	20	7.5	0.80	296.1	0.029	2205	5000	P10210-ND◆	1.25	42.69	73.89	279.14	EEU-FC0J472S
	4700	12.5	30	5.0	0.80	296.1	0.025	2310	5000	P10209-ND◆	1.04	35.57	61.56	232.56	EEU-FC0J472
	5600	16	20	7.5	0.80	352.8	0.029	2205	5000	P11176-ND◆	1.25	42.69	73.89	279.14	EEU-FC0J562
	5600	12.5	35	5.0	0.80	352.8	0.022	2510	5000	P10211-ND◆	1.36	46.36	80.24	303.11	EEU-FC0J562L
	6800	18	20	7.5	0.80	428.4	0.028	2490	5000	P10214-ND◆	1.69	57.93	100.26	378.76	EEU-FC0J682S
	6800	16	25	7.5	0.80	428.4	0.022	2555	5000	P10213-ND◆	1.49	50.80	87.93	332.18	EEU-FC0J682
	6800	12.5	40	5.0	0.80	428.4	0.018	2655	5000	P10212-ND	1.55	53.07	91.85	346.97	EEU-FC0J682L
	8200	16	31.5	7.5	0.80	516.6	0.018	3010	5000	P11177-ND◆	1.70	60.05	105.08	400.32	EEU-FC0J822
	10000	18	25	7.5	0.80	630.0	0.020	2740	5000	P10216-ND◆	1.91	67.55	118.21	450.32	EEU-FC0J103S
	10000	16	35.5	7.5	0.80	630.0	0.016	3150	5000	P10215-ND	1.95	68.74	120.29	458.24	EEU-FC0J103
	12000	18	31.5	7.5	0.80	756.0	0.016	3635	5000	P11178-ND	2.21	78.04	136.56	520.24	EEU-FC0J123
	12000	16	40	7.5	0.80	756.0	0.015	3360	5000	P11179-ND	2.15	75.72	132.51	504.80	EEU-FC0J123L
	15000	18	35.5	7.5	0.80	945.0	0.015	3680	5000	P10217-ND◆	2.39	84.44	147.78	562.96	EEU-FC0J153
10	47	4	11	1.5	0.45	4.7	1.30	120	1000	P11180-ND◆	.44	10.76	18.45	69.19	EEU-FC1A470
	82	5	11	2.0	0.50	8.2	0.80	175	1000	P10218-ND◆	.33	7.50	12.75	45.00	EEU-FC1A820
	100	5	11	2.0	0.50	10.0	0.80	175	1000	P11181-ND◆	.33	7.50	12.75	45.00	EEU-FC1A101S
	100	5	15	2.0	0.50	10.0	0.50	235	1000	P10219-ND◆	.49	11.95	20.49	76.84	EEU-FC1A101
	180	6.3	11.2	2.5	0.50	18.0	0.35	290	1000	P11182-ND◆	.34	8.21	14.07	52.76	EEU-FC1A181
	220	6.3	11.2	2.5	0.50	22.0	0.35	290	1000	P10220-ND◆	.34	8.21	14.07	52.76	EEU-FC1A221S
	220	6.3	15	2.5	0.50	22.0	0.25	400	1000	P11183-ND◆	.49	13.21	23.00	85.20	EEU-FC1A221
	330	8	11.5	3.5	0.60	33.0	0.117	555	2000	P11184-ND◆	.48	11.76	20.16	75.60	EEU-FC1A331
	390	8	11.5	3.5	0.60	39.0	0.117	555	2000	P11185-ND◆	.48	11.76	20.16	75.60	EEU-FC1A391
	470	8	11.5	3.5	0.60	47.0	0.117	555	2000	P10221-ND◆	.48	11.76	20.16	75.60	EEU-FC1A471
	560	10	12.5	5.0	0.60	56.0	0.09	755	3000	P11186-ND◆	.54	14.54	25.33	93.80	EEU-FC1A561
	680	10	12.5	5.0	0.60	68.0	0.090	755	3000	P10223-ND◆	.54	14.54	25.33	93.80	EEU-FC1A681
	680	8	15	3.5	0.60	68.0	0.085	730	2000	P10222-ND◆	.54	14.54	25.33	93.80	EEU-FC1A681L
	820	10	16	5.0	0.60	82.0	0.068	1050	3000	P11187-ND◆	.73	19.39	33.78	125.10	EEU-FC1A821
	1000	10	16	5.0	0.60	100.0	0.068	1050	3000	P10225-ND◆	.73	19.39	33.78	125.10	EEU-FC1A102
	1000	8	20	3.5	0.60	82.0	0.065	995	2000	P10224-ND◆	.64	16.97	29.57	109.50	EEU-FC1A102L
	1200	12.5	15	5.0	0.60	120.0	0.065	1205	5000	P10227-ND◆	1.03	32.37	55.75	215.82	EEU-FC1A122S
	1200	10	20	5.0	0.60	120.0	0.052	1220	3000	P10226-ND◆	.71	21.00	36.00	142.50	EEU-FC1A122
	1500	10	25	5.0	0.60	150.0	0.045	1440	3000	P10228-ND◆	.80	23.65	40.54	160.46	EEU-FC1A152
	1800	16	15	7.5	0.80	180.0	0.043	1690	5000	P10229-ND◆	1.21	41.42	71.69	270.81	EEU-FC1A182S
	1800	12.5	20	5.0	0.60	180.0	0.038	1655	5000	P11188-ND◆	.90	28.49	49.06	189.90	EEU-FC1A182
	2200	12.5	20	5.0	0.60	220.0	0.038	1655	5000	P10230-ND◆	.90	28.49	49.06	189.90	EEU-FC1A222
	2200	10	30	5.0	0.60	220.0	0.035	1815	3000	P11189-ND◆	.89	28.07	48.34	187.11	EEU-FC1A222L
	2700	18	15	7.5	0.80	270.0	0.038	2000	5000	P10232-ND◆	1.51	51.60	89.30	337.37	EEU-FC1A272S
	2700	12.5	25	5.0	0.60	270.0	0.030	1945	5000	P10231-ND◆	1.01	34.55	59.81	225.93	EEU-FC1A272
	3300	16	20	7.5	0.80	330.0	0.029	2205	5000	P10234-ND◆	1.25	42.69	73.89	279.14	EEU-FC1A332S
	3300	12.5	30	5.0	0.80	330.0	0.025	2310	5000	P10233-ND◆	1.04	35.57	61.56	232.56	EEU-FC1A332
	3900	16	20	7.5	0.80	390.0	0.029	2205	5000	P11190-ND◆	1.25	42.69	73.89	279.14	EEU-FC1A392
	3900	12.5	35	5.0	0.80	390.0	0.022	2510	5000	P10235-ND◆	1.36	46.36	80.24	303.11	EEU-FC1A392L
	4700	16	25	7.5	0.80	470.0	0.022	2555	5000	P10237-ND◆	1.49	50.80	87.93	332.18	EEU-FC1A472
	4700	12.5	40	5.0	0.80	470.0	0.018	2655	5000	P10236-ND◆	1.55	53.07	91.85	346.97	EEU-FC1A472L
	5600	18	20	7.5	0.80	560.0	0.028	2490	5000	P10238-ND◆	1.69	57.93	100.26	378.76	EEU-FC1A562S
	5600	16	25	7.5	0.80	560.0	0.022	2555	5000	P11191-ND◆	1.49	50.80	87.93	332.18	EEU-FC1A562
	6800	18	25	7.5	0.80	680.0	0.020	2740	5000	P10240-ND◆	1.91	67.55	118.21	450.32	EEU-FC1A682S
	6800	16	31.5	7.5	0.80	680.0	0.018	3010	5000	P10239-ND◆	1.70	60.05	105.08	400.32	EEU-FC1A682
	8200	18	31.5	7.5	0.80	820.0	0.016	3635	5000	P11193-ND	2.21	78.04	136.56	520.24	EEU-FC1A822
	8200	16	35.5	7.5	0.80	820.0	0.016	3150	5000	P11192-ND◆	1.95	68.74	120.29	458.24	EEU-FC1A822L
	10000	18	35.5	7.5	0.80	1000.0	0.015	3680	5000	P10241-ND◆	2.39	84.44	147.78	562.96	EEU-FC1A103
	12000	18	40	7.5	0.80	1200.0	0.014	3735	5000	P11194-ND	2.82	99.47	174.07	663.12	EEU-FC1A123
16	39	4	11	1.5	0.45	6.24	1.30	120	1000	P11195-ND◆	.44	10.76	18.45	69.19	EEU-FC1C390
	47	5	11	2.0	0.50	7.52	0.80	175	1000	P11196-ND◆	.33	7.50	12.75	45.00	EEU-FC1C470
	56	5	11	2.0	0.50	8.96	0.80	175	1000	P11197-ND◆	.33	7.50	12.75	45.00	EEU-FC1C560
	68	5	11	2.0	0.50	10.8	0.80	175	1000	P10242-ND◆	.33	7.50	12.75	45.00	EEU-FC1C680
	82	5	15	2.0	0.50	13.1	0.50	235	1000	P10243-ND◆	.49	11.95	20.49	76.84	EEU-FC1C820
	100	6.3	11.2	2.5	0.50	16.0	0.35	290	1000	P11198-ND◆	.34	8.21	14.07	52.76	EEU-FC1C101
	120	6.3	11.2	2.5	0.50	19.2	0.35	290	1000	P10244-ND◆	.34	8.21	14.07	52.76	EEU-FC1C121
	180	6.3	15	2.5	0.50	28.8	0.25	400	1000	P10245-ND◆	.49	13.21	23.00	85.20	EEU-FC1C181
	220	8	11.5	3.5	0.60	35.2	0.117	555	2000	P11199-ND◆	.48	11.76	20.16	75.60	EEU-FC1C221
	270	8	11.5	3.5	0.60	43.2	0.117	555	2000	P11200-ND◆	.48	11.76	20.16	75.60	EEU-FC1C271
	330	8	11.5	3.5	0.60	52.8	0.117	555	2000	P10246-ND◆	.48	11.76	20.16	75.60	EEU-FC1C331
	390	10	12.5	5.0	0.60	62.4	0.09	755	3000	P11201-ND◆	.54	14.54	25.33	93.80	EEU-FC1C391
	470	10	12.5	5.0	0.60	75.2	0.090	755	3000	P10248-ND◆	.54	14.54	25.33	93.80	EEU-FC1C471
	470	8	15	3.5	0.60	75.2	0.085	730	2000	P10247-ND◆	.54	14.54	25.33	93.80	EEU-FC1C471L

◆ ***RoHS Compliant***

(Continued)

W.V. (V)	Cap. (µF)	Dimensions – mm				Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	50	100	500	
16	560	10	16	5.0	0.60	89.6	0.068	1050	3000	P11202-ND◆	.73	19.39	33.78	125.10	EEU-FC1C561
	680	10	16	5.0	0.60	108.8	0.068	1050	3000	P10250-ND◆	.73	19.39	33.78	125.10	EEU-FC1C681
	680	8	20	3.5	0.60	108.8	0.065	995	2000	P10249-ND◆	.64	16.97	29.57	109.50	EEU-FC1C681L
	820	12.5	15	5.0	0.60	131.2	0.065	1205	5000	P10252-ND◆	1.03	32.37	55.75	215.82	EEU-FC1C821S
	820	10	20	5.0	0.60	131.2	0.052	1220	3000	P10251-ND◆	.71	21.00	36.00	142.50	EEU-FC1C821
	1000	10	20	5.0	0.60	160.0	0.052	1220	3000	P11203-ND◆	.71	21.00	36.00	142.50	EEU-FC1C102S
	1000	10	25	5.0	0.60	160.0	0.045	1440	3000	P10253-ND◆	.80	23.65	40.54	160.46	EEU-FC1C102
	1200	16	15	7.5	0.80	192.0	0.043	1690	5000	P11205-ND◆	1.21	41.42	71.69	270.81	EEU-FC1C122S
	1200	10	25	5.0	0.60	192.0	0.045	1440	3000	P11204-ND◆	.80	23.65	40.54	160.46	EEU-FC1C122
	1500	16	15	7.5	0.80	240.0	0.043	1690	5000	P11206-ND◆	1.21	41.42	71.69	270.81	EEU-FC1C152S
	1500	12.5	20	5.0	0.60	240.0	0.038	1655	5000	P10254-ND◆	.90	28.49	49.06	189.90	EEU-FC1C152
	1500	10.0	30	5.0	0.60	240.0	0.035	1815	3000	P10255-ND◆	.89	28.07	48.34	187.11	EEU-FC1C152L
	1800	18	15	7.5	0.80	288.0	0.038	2000	5000	P10256-ND◆	1.51	51.60	89.30	337.37	EEU-FC1C182S
	1800	12.5	25	5.0	0.60	288.0	0.03	1945	5000	P11207-ND◆	1.01	34.55	59.81	225.93	EEU-FC1C182
	2200	16	20	7.5	0.80	352.0	0.029	2205	5000	P10258-ND◆	1.25	42.69	73.89	279.14	EEU-FC1C222S
	2200	12.5	25	5.0	0.60	352.0	0.030	1945	5000	P10257-ND◆	1.01	34.55	59.81	225.93	EEU-FC1C222
	2700	16	20	7.5	0.80	432.0	0.029	2205	5000	P11208-ND◆	1.25	42.69	73.89	279.14	EEU-FC1C272
	2700	12.5	30	5.0	0.80	432.0	0.025	2310	5000	P10259-ND◆	1.04	35.57	61.56	232.56	EEU-FC1C272L
	3300	18	20	7.5	0.80	528.0	0.028	2490	5000	P10261-ND◆	1.69	57.93	100.26	378.76	EEU-FC1C332S
	3300	12.5	35	5.0	0.80	528.0	0.022	2510	5000	P10260-ND◆	1.36	46.36	80.24	303.11	EEU-FC1C332
	3900	18	20	7.5	0.80	624.0	0.028	2490	5000	P11209-ND◆	1.69	57.93	100.26	378.76	EEU-FC1C392S
	3900	16	25	7.5	0.80	624.0	0.022	2555	5000	P10262-ND◆	1.49	50.80	87.93	332.18	EEU-FC1C392
	4700	18	25	7.5	0.80	752.0	0.020	2740	5000	P10264-ND◆	1.91	67.55	118.21	450.32	EEU-FC1C472S
	4700	16	31.5	7.5	0.80	752.0	0.018	3010	5000	P10263-ND◆	1.70	60.05	105.08	400.32	EEU-FC1C472
	5600	18	31.5	7.5	0.80	896.0	0.016	3635	5000	P11210-ND◆	2.21	78.04	136.56	520.24	EEU-FC1C562
	5600	16	35.5	7.5	0.80	896.0	0.016	3150	5000	P10265-ND◆	1.95	68.74	120.29	458.24	EEU-FC1C562L
	6800	16	40	7.5	0.80	1088.0	0.015	3360	5000	P11211-ND◆	2.15	75.72	132.51	504.80	EEU-FC1C682
	8200	18	35.5	7.5	0.80	1312.0	0.015	3680	5000	P10266-ND◆	2.39	84.44	147.78	562.96	EEU-FC1C822
25	10	4	7	1.5	0.45	2.5	2	65	1000	P11212-ND◆	.30	6.88	11.70	41.28	EEA-FC1E100
	22	5	7	2	0.45	5.5	0.95	120	1000	P11213-ND◆	.33	7.50	12.75	45.00	EEA-FC1E220
	27	4	11	1.5	0.45	6.75	1.3	120	1000	P11214-ND◆	.44	10.76	18.45	69.19	EEU-FC1E270
	39	5	11	2	0.50	9.75	0.80	175	1000	P11215-ND◆	.34	8.21	14.07	52.76	EEU-FC1E390
	47	5	11	2.0	0.50	11.7	0.80	175	1000	P10267-ND◆	.34	8.21	14.07	52.76	EEU-FC1E470
	56	5	15	2.0	0.50	14.0	0.50	235	1000	P10268-ND◆	.49	11.95	20.49	76.84	EEU-FC1E560
	82	6.3	11.2	2.5	0.50	20.5	0.35	290	1000	P11216-ND◆	.34	8.21	14.07	52.76	EEU-FC1E820
	100	6.3	11.2	2.5	0.50	25.0	0.35	290	1000	P10269-ND◆	.34	8.21	14.07	52.76	EEU-FC1E101S
	120	6.3	15	2.5	0.50	30.0	0.25	400	1000	P10270-ND◆	.49	13.21	23.00	85.20	EEU-FC1E121
	180	8	11.5	3.5	0.60	45.0	0.117	555	2000	P11217-ND◆	.48	11.76	20.16	75.60	EEU-FC1E181
	220	8	11.5	3.5	0.60	55.0	0.117	555	2000	P10271-ND◆	.48	11.76	20.16	75.60	EEU-FC1E221
	270	10	12.5	5	0.60	67.5	0.09	755	3000	P11218-ND◆	.54	14.54	25.33	93.80	EEU-FC1E271
	330	10	12.5	5.0	0.60	82.5	0.090	755	3000	P10273-ND◆	.54	14.54	25.33	93.80	EEU-FC1E331
	330	8	15	3.5	0.60	82.5	0.085	730	2000	P10272-ND◆	.54	14.54	25.33	93.80	EEU-FC1E331L
	390	10	16	5	0.60	97.5	0.068	1050	3000	P11219-ND◆	.73	19.39	33.78	125.10	EEU-FC1E391
	470	10	16	5.0	0.60	117.5	0.068	1050	3000	P10275-ND◆	.73	19.39	33.78	125.10	EEU-FC1E471
	470	8	20	3.5	0.60	117.5	0.065	995	2000	P10274-ND◆	.64	16.97	29.57	109.50	EEU-FC1E471L
	560	12.5	15	5.0	0.60	140.0	0.065	1205	5000	P10276-ND◆	1.03	32.37	55.75	215.82	EEU-FC1E561S
	560	10	20	5	0.60	140.0	0.052	1220	3000	P11220-ND◆	.71	21.00	36.00	142.50	EEU-FC1E561
	680	10	20	5.0	0.60	170.0	0.052	1220	3000	P10277-ND◆	.71	21.00	36.00	142.50	EEU-FC1E681
	820	12.5	20	5	0.60	205.0	0.038	1655	5000	P11222-ND◆	.90	28.49	49.06	189.90	EEU-FC1E821S
	820	10	25	5	0.60	205.0	0.045	1440	3000	P11221-ND◆	.80	23.65	40.54	160.46	EEU-FC1E821
	1000	16	15	7.5	0.80	250.0	0.043	1690	5000	P10279-ND◆	1.21	41.42	71.69	270.81	EEU-FC1E102S
	1000	12.5	20	5.0	0.60	250.0	0.038	1655	5000	P10278-ND◆	.90	28.49	49.06	189.90	EEU-FC1E102
	1000	10	30	5	0.60	250.0	0.035	1815	3000	P11223-ND◆	.89	28.07	48.34	187.11	EEU-FC1E102L
	1200	18	15	7.5	0.80	300.0	0.038	2000	5000	P10280-ND◆	1.51	51.60	89.30	337.37	EEU-FC1E122S
	1200	12.5	25	5	0.60	300.0	0.03	1945	5000	P11224-ND◆	1.01	34.55	59.81	225.93	EEU-FC1E122
	1500	16	20	7.5	0.80	375.0	0.029	2205	5000	P10282-ND◆	1.25	42.69	73.89	279.14	EEU-FC1E152S
	1500	12.5	25	5.0	0.60	375.0	0.030	1945	5000	P10281-ND◆	1.01	34.55	59.81	225.93	EEU-FC1E152
	1800	16	20	7.5	0.80	450.0	0.029	2205	5000	P11225-ND◆	1.25	42.69	73.89	279.14	EEU-FC1E182
	1800	12.5	30	5.0	0.80	450.0	0.025	2310	5000	P10283-ND◆	1.04	35.57	61.56	232.56	EEU-FC1E182L
	2200	18	20	7.5	0.80	550.0	0.028	2490	5000	P10285-ND◆	1.69	57.93	100.26	378.76	EEU-FC1E222S
	2200	12.5	35	5.0	0.80	550.0	0.022	2510	5000	P10284-ND◆	1.36	46.36	80.24	303.11	EEU-FC1E222
	2700	16	25	7.5	0.80	675.0	0.022	2555	5000	P10286-ND◆	1.49	50.80	87.93	332.18	EEU-FC1E272
	3300	18	25	7.5	0.80	825.0	0.020	2740	5000	P10288-ND◆	1.91	67.55	118.21	450.32	EEU-FC1E332S
	3300	16	31.5	7.5	0.80	825.0	0.018	3010	5000	P10287-ND◆	1.70	60.05	105.08	400.32	EEU-FC1E332
	3900	18	31.5	7.5	0.80	975.0	0.016	3635	5000	P11227-ND◆	2.21	78.04	136.56	520.24	EEU-FC1E392
	3900	16	35.5	7.5	0.80	975.0	0.016	3150	5000	P11226-ND◆	1.95	68.74	120.29	458.24	EEU-FC1E392L
	4700	18	35.5	7.5	0.80	1175.0	0.015	3680	5000	P10289-ND◆	2.39	84.44	147.78	562.96	EEU-FC1E472
	5600	18	40	7.5	0.80	1400.0	0.014	3735	5000	P11228-ND◆	2.82	99.47	174.07	663.12	EEU-FC1E562
35	18	4	11	1.5	0.45	6.3	1.3	120	1000	P11229-ND◆	.44	10.76	18.45	69.19	EEU-FC1V180
	22	5	11	2	0.50	7.7	0.80	175	1000	P11230-ND◆	.33	7.50	12.75	45.00	EEU-FC1V220
	27	5	11	2	0.50	9.45	0.80	175	1000	P11231-ND◆	.33	7.50	12.75	45.00	EEU-FC1V270
	33	5	11	2.0	0.50	11.5	0.080	175	1000	P10290-ND◆	.33	7.50	12.75	45.00	EEU-FC1V330
	39	5	15	2.0	0.50	13.6	0.50	235	1000	P10291-ND◆	.49	11.95	20.49	76.84	EEU-FC1V390
	47	6.3	11.2	2.5	0.50	16.45	0.35	290	1000	P11232-ND◆	.34	8.21	14.07	52.76	EEU-FC1V470
	56	6.3	11.2	2.5	0.50	19.6	0.35	290	1000	P11233-ND◆	.34	8.21	14.07	52.76	EEU-FC1V560
	68	6.3	11.2	2.5	0.50	23.8	0.35	290	1000	P10292-ND◆	.34	8.21	14.07	52.76	EEU-FC1V680
	82	6.3	15	2.5	0.50	28.7	0.25	400	1000	P10293-ND◆	.49	13.21	23.00	85.20	EEU-FC1V820
	100	8	11.5	3.5	0.60	35.0	0.117	555	2000	P10294-ND◆	.48	11.76	20.16	75.60	EEU-FC1V101
	120	8	11.5	3.5	0.60	42.0	0.117	555	2000	P11234-ND◆	.48	11.76	20.16	75.60	EEU-FC1V121
	150	8	11.5	3.5	0.60	52.5	0.117	555	2000	P10295-ND◆	.48	11.76	20.16	75.60	EEU-FC1V151
	180	10	12.5	5	0.60	63.0	0.09	755	3000	P11235-ND◆	.54	14.54	25.33	93.80	EEU-FC1V181
	220	10	12.5	5.0	0.60	77.0	0.090	755	3000	P10297-ND◆	.54	14.54	25.33	93.80	EEU-FC1V221
	220	8	15	3.5	0.60	77.0	0.085	730	2000	P10296-ND◆	.54	14.54	25.33	93.80	EEU-FC1V221L
	270	10	16	5	0.60	94.5	0.068	1050	3000	P11236-ND◆	.73	19.39	33.78	125.10	EEU-FC1V271
	390	12.5	15	5.0	0.60	136.5	0.065	1205	5000	P10300-ND◆	1.03	32.37	55.75	215.82	EEU-FC1V391S
	330	10	16	5.0	0.60	115.5	0.068	1050	3000	P10299-ND◆	.73	19.39	33.78	125.10	EEU-FC1V331
	330	8	20	3.5	0.60	115.5	0.065	995	2000	P10298-ND◆	.64	16.97	29.57	109.50	EEU-FC1V331L
	390	10	20	5	0.60	136.5	0.052	1220	3000	P11237-ND◆	.71	21.00	36.00	142.50	EEU-FC1V391
	470	10	20	5.0	0.60	164.5	0.052	1220	3000	P10301-ND◆	.70	20.64	35.38	140.03	EEU-FC1V471
	560	12.5	20	5	0.60	196.0	0.038	1655	5000	P11239-ND◆	.90	28.49	49.06	189.90	EEU-FC1V561S
	560	10	25	5	0.60	196.0	0.045	1440	3000	P11238-ND◆	.80	23.65	40.54	160.46	EEU-FC1V561
	680	16	15	7.5	0.80	238.0	0.043	1690	5000	P10303-ND◆	1.21	41.42	71.69	270.81	EEU-FC1V681S
	680	12.5	20	5.0	0.60	238.0	0.038	1655	5000	P10302-ND◆	.90	28.49	49.06	189.90	EEU-FC1V681
	680	10	30	5	0.60	238.0	0.035	1815	3000	P11240-ND◆	.89	28.07	48.34	187.11	EEU-FC1V681L
	820	18	15	7.5	0.80	287.0	0.038	2000	5000	P10304-ND◆	1.51	51.60	89.30	337.37	EEU-FC1V821
	820	12.5	25	5	0.60	287.0	0.03	1945	5000	P11241-ND◆	1.01	34.55	59.81	225.93	EEU-FC1V821L
	1000	16	20	7.5	0.80	350.0	0.029	2205	5000	P10876-ND◆	1.25	42.69	73.89	279.14	EEU-FC1V102S
	1000	12.5	25	5.0	0.60	350.0	0.030	1945	5000	P10305-ND◆	1.01	34.55	59.81	225.93	EEU-FC1V102
	1200	16	20	7.5	0.80	420.0	0.029	2205	5000	P11242-ND◆	1.25	42.69	73.89	279.14	EEU-FC1V122
	1200	12.5	30	5.0	0.80	420.0	0.025	2310	5000	P10306-ND◆	1.04	35.57	61.56	232.56	EEU-FC1V122L
	1500	18	20	7.5	0.80	525.0	0.028	2490	5000	P11243-ND◆	1.69	57.93	100.26	378.76	EEU-FC1V152S
	1500	16	25	7.5	0.80	525.0	0.022	2555	5000	P10308-ND◆	1.49	50.80	87.93	332.18	EEU-FC1V152
	1500	12.5	35	5.0	0.80	525.0	0.022	2510	5000	P10307-ND◆	1.36	46.36	80.24	303.11	EEU-FC1V152L
	1800	18	20	7.5	0.80	630.0	0.028	2490	5000	P11246-ND◆	1.69	57.93	100.26	378.76	EEU-FC1V182S
	1800	16	25	7.5	0.80	630.0	0.022	2555	5000	P11245-ND◆	1.49	50.80	87.93	332.18	EEU-FC1V182
	1800	12.5	40	5	0.80	630.0	0.018	2655	5000	P11244-ND◆	1.55	53.07	91.85	346.97	EEU-FC1V182L
	2200	18	25	7.5	0.80	770.0	0.020	2740	5000	P10310-ND◆	1.91	67.55	118.21	450.32	EEU-FC1V222S

◆ ***RoHS Compliant***

(Continued)

W.V. (V)	Cap. (µF)	Dimensions – mm				Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	50	100	500	
35	2200	16	31.5	7.5	0.80	770.0	0.018	3010	5000	P10309-ND◆	1.70	60.05	105.08	400.32	EEU-FC1V222
	2700	18	31.5	7.5	0.80	945.0	0.016	3635	5000	P11248-ND◆	2.21	78.04	136.56	520.24	EEU-FC1V272
	2700	16	35.5	7.5	0.80	945.0	0.016	3150	5000	P11247-ND◆	1.95	68.74	120.29	458.24	EEU-FC1V272L
	3300	18	35.5	7.5	0.80	1155.0	0.015	3680	5000	P10311-ND◆	2.39	84.44	147.78	562.96	EEU-FC1V332
	3900	18	40	7.5	0.80	1365.0	0.014	3735	5000	P11249-ND◆	2.82	99.47	174.07	663.12	EEU-FC1V392
50	1.0	5	11	2.0	0.50	0.5	2.40	20	1000	P10312-ND◆	.33	7.50	12.75	45.00	EEU-FC1H1R0
	2.2	5	11	2.0	0.50	1.1	1.80	45	1000	P10313-ND◆	.33	7.50	12.75	45.00	EEU-FC1H2R2
	3.3	5	11	2.0	0.50	1.6	1.30	65	1000	P10314-ND◆	.33	7.50	12.75	45.00	EEU-FC1H3R3
	4.7	5	11	2.0	0.50	2.3	1.30	95	1000	P10315-ND◆	.33	7.50	12.75	45.00	EEU-FC1H4R7
	10	4	11	1.5	0.45	5.0	2.5	90	1000	P11250-ND◆	.44	10.76	18.45	69.19	EEU-FC1H100
	10	5	11	2.0	0.50	5.0	1.30	125	1000	P10316-ND◆	.33	7.50	12.75	45.00	EEU-FC1H100L
	15	5	11	2.0	0.50	7.5	1.30	145	1000	P10317-ND◆	.33	7.50	12.75	45.00	EEU-FC1H150
	18	5	11	2	0.50	9.0	1.3	155	1000	P11251-ND◆	.33	7.50	12.75	45.00	EEU-FC1H180
	22	5	11	2.0	0.50	11.0	1.30	155	1000	P10318-ND◆	.33	7.50	12.75	45.00	EEU-FC1H220
	27	5	15	2.0	0.50	13.5	0.90	215	1000	P10319-ND◆	.49	11.95	20.49	76.84	EEU-FC1H270
	33	6.3	11.2	2.5	0.50	16.5	0.60	260	1000	P10320-ND◆	.34	8.21	14.07	52.76	EEU-FC1H330
	47	6.3	11.2	2.5	0.50	23.5	0.60	260	1000	P10321-ND◆	.34	8.21	14.07	52.76	EEU-FC1H470
	56	6.3	15	2.5	0.50	28.0	0.40	360	1000	P10322-ND◆	.49	13.21	23.00	85.20	EEU-FC1H560
	68	8	11.5	3.5	0.60	34.0	0.234	485	2000	P11252-ND◆	.48	11.76	20.16	75.60	EEU-FC1H680
	82	8	11.5	3.5	0.60	41.0	0.234	485	2000	P11253-ND◆	.48	11.76	20.16	75.60	EEU-FC1H820
	100	10	12.5	5.0	0.60	50.0	0.162	615	3000	P10323-ND◆	.54	14.54	25.33	93.80	EEU-FC1H101
	120	10	12.5	5	0.60	60.0	0.162	615	3000	P11255-ND◆	.54	14.54	25.33	93.80	EEU-FC1H121
	120	8	15	3.5	0.60	60.0	0.155	635	2000	P11254-ND◆	.54	14.54	25.33	93.80	EEU-FC1H121L
	150	10	16	5	0.60	75.0	0.119	850	3000	P11256-ND◆	.73	19.39	33.78	125.10	EEU-FC1H151
	180	8	20	3.5	0.60	90.0	0.120	860	2000	P10324-ND◆	.64	16.97	29.57	109.50	EEU-FC1H181L
	220	12.5	15	5.0	0.60	110.0	0.110	1150	5000	P10326-ND◆	1.03	32.37	55.75	215.82	EEU-FC1H221S
	220	10	20	5.0	0.60	110.0	0.090	1030	3000	P10325-ND◆	.71	21.00	36.00	142.50	EEU-FC1H221
	270	10	25	5	0.60	135.0	0.082	1200	3000	P11257-ND◆	.80	23.65	40.54	160.46	EEU-FC1H271
	330	12.5	20	5	0.60	165.0	0.063	1480	5000	P11258-ND◆	.90	28.49	49.06	189.90	EEU-FC1H331
	390	16	15	7.5	0.80	195.0	0.080	1610	5000	P10327-ND◆	1.21	41.42	71.69	270.81	EEU-FC1H391S
	390	12.5	20	5	0.60	195.0	0.063	1480	5000	P11259-ND◆	.90	28.49	49.06	189.90	EEU-FC1H391
	470	12.5	25	5.0	0.60	235.0	0.050	1832	5000	P10328-ND◆	1.01	34.55	59.81	225.93	EEU-FC1H471
	470	10	30	5	0.60	235.0	0.06	1610	3000	P11260-ND◆	.89	28.07	48.34	187.11	EEU-FC1H471L
	560	18	15	7.5	0.80	280.0	0.068	1900	5000	P10329-ND◆	1.51	51.60	89.30	337.37	EEU-FC1H561S
	560	12.5	25	5	0.60	280.0	0.05	1832	5000	P11261-ND◆	1.01	34.55	59.81	225.93	EEU-FC1H561
	680	16	20	7.5	0.80	340.0	0.048	1835	5000	P10331-ND◆	1.25	42.69	73.89	279.14	EEU-FC1H681
	680	12.5	30	5.0	0.80	340.0	0.040	2215	5000	P10330-ND◆	1.04	35.57	61.56	232.56	EEU-FC1H681L
	820	18	20	7.5	0.80	410.0	0.042	2420	5000	P11262-ND◆	1.69	57.93	100.26	378.76	EEU-FC1H821
	820	12.5	35	5.0	0.80	410.0	0.034	2285	5000	P10332-ND◆	1.36	46.36	80.24	303.11	EEU-FC1H821L
	1000	16	25	7.5	0.80	500.0	0.034	2235	5000	P10333-ND◆	1.49	50.80	87.93	332.18	EEU-FC1H102
	1000	12.5	40	5	0.80	500.0	0.03	2590	5000	P11263-ND◆	1.55	53.07	91.85	346.97	EEU-FC1H102L
	1200	18	25	7.5	0.80	600.0	0.029	2610	5000	P11265-ND◆	1.91	67.55	118.21	450.32	EEU-FC1H122S
	1200	16	31.5	7.5	0.80	600.0	0.028	2700	5000	P11264-ND◆	1.70	60.05	105.08	400.32	EEU-FC1H122
	1500	16	35.5	7.5	0.80	750.0	0.025	2790	5000	P10334-ND◆	1.95	68.74	120.29	458.24	EEU-FC1H152L
	1800	18	31.5	7.5	0.80	900.0	0.025	3000	5000	P11267-ND◆	2.21	78.04	136.56	520.24	EEU-FC1H182
	1800	16	40	7.5	0.80	900.0	0.023	2845	5000	P11266-ND◆	2.15	75.72	132.51	504.80	EEU-FC1H182L
	2200	18	35.5	7.5	0.80	1100.0	0.023	3100	5000	P10335-ND◆	2.39	84.44	147.78	562.96	EEU-FC1H222
63	6.8	4	11	1.5	0.45	4.284	3.5	80	1000	P11268-ND◆	.44	10.76	18.45	69.19	EEU-FC1J6R8
	12	5	11	2.0	0.50	7.5	2.00	145	1000	P10336-ND◆	.33	7.50	12.75	45.00	EEU-FC1J120
	18	5	15	2.0	0.50	11.3	1.30	200	1000	P10337-ND◆	.49	11.95	20.49	76.84	EEU-FC1J180
	22	6.3	11.2	2.5	0.50	13.8	1.00	240	1000	P10338-ND◆	.34	8.21	14.07	52.76	EEU-FC1J220
	33	6.3	11.2	2.5	0.50	20.7	1.000	240	1000	P10764-ND◆	.34	8.21	14.07	52.76	EEU-FC1J330
	39	6.3	15	2.5	0.50	24.5	0.70	330	1000	P10339-ND◆	.49	13.21	23.00	85.20	EEU-FC1J390
	47	8	11.5	3.5	0.60	29.6	0.342	405	2000	P10340-ND◆	.48	11.76	20.16	75.60	EEU-FC1J470
	68	8	11.5	3.5	0.60	42.8	0.342	405	2000	P10341-ND◆	.48	11.76	20.16	75.60	EEU-FC1J680
	56	8	11.5	3.5	0.60	35.28	0.342	405	2000	P11269-ND◆	.48	11.76	20.16	75.60	EEU-FC1J560
	82	10	12.5	5	0.60	51.66	0.256	535	3000	P11270-ND◆	.54	14.54	25.33	93.80	EEU-FC1J820
	100	10	12.5	5.0	0.60	63.0	0.256	535	3000	P10343-ND◆	.54	14.54	25.33	93.80	EEU-FC1J101
	100	8	15	3.5	0.60	63.0	0.230	535	2000	P10342-ND◆	.54	14.54	25.33	93.80	EEU-FC1J101L
	120	10	16	5	0.60	75.6	0.194	600	3000	P11271-ND◆	.73	19.39	33.78	125.10	EEU-FC1J121
	150	8	20	3.5	0.60	94.5	0.178	690	2000	P10344-ND◆	.64	16.97	29.57	109.50	EEU-FC1J151
	180	12.5	15	5.0	0.60	113.4	0.150	1020	5000	P10345-ND◆	1.03	32.37	55.75	215.82	EEU-FC1J181S
	180	10	20	5	0.60	113.4	0.147	885	3000	P11272-ND◆	.71	21.00	36.00	142.50	EEU-FC1J181
	220	12.5	20	5.0	0.60	138.6	0.085	1285	5000	P10347-ND◆	.90	28.49	49.06	189.90	EEU-FC1J221S
	220	10	25	5.0	0.60	138.6	0.130	1050	3000	P10346-ND◆	.80	23.65	40.54	160.46	EEU-FC1J221
	270	16	15	7.5	0.80	170.1	0.090	1410	5000	P10348-ND◆	1.21	41.42	71.69	270.81	EEU-FC1J271
	330	12.5	20	5.0	0.60	207.9	0.085	1285	5000	P10349-ND◆	.90	28.49	49.06	189.90	EEU-FC1J331
	330	10	30	5	0.60	207.9	0.09	1300	3000	P11273-ND◆	.89	28.07	48.34	187.11	EEU-FC1J331L
	390	18	15	7.5	0.80	245.7	0.086	1690	5000	P10350-ND◆	1.51	51.60	89.30	337.37	EEU-FC1J391S
	390	12.5	25	5	0.60	245.7	0.07	1720	5000	P11274-ND◆	1.01	34.55	59.81	225.93	EEU-FC1J391
	470	16	20	7.5	0.80	296.1	0.059	1765	5000	P10352-ND◆	1.25	42.69	73.89	279.14	EEU-FC1J471
	470	12.5	30	5.0	0.80	296.1	0.055	2090	5000	P10351-ND◆	1.04	35.57	61.56	232.56	EEU-FC1J471L
	560	16	25	7.5	0.80	352.8	0.05	2160	5000	P11275-ND◆	1.49	50.80	87.93	332.18	EEU-FC1J561
	680	18	20	7.5	0.80	428.4	0.055	2290	5000	P11276-ND◆	1.69	57.93	100.26	378.76	EEU-FC1J681S
	680	16	25	7.5	0.80	428.4	0.050	2160	5000	P10354-ND◆	1.49	50.80	87.93	332.18	EEU-FC1J681
	680	12.5	35	5.0	0.80	428.4	0.047	2265	5000	P10353-ND◆	1.36	46.36	80.24	303.11	EEU-FC1J681L
	820	18	25	7.5	0.80	516.6	0.043	2585	5000	P11279-ND◆	1.91	67.55	118.21	450.32	EEU-FC1J821S
	820	16	31.5	7.5	0.80	516.6	0.043	2670	5000	P11278-ND◆	1.70	60.05	105.08	400.32	EEU-FC1J821
	820	12.5	40	5	0.80	516.6	0.042	2560	5000	P11277-ND◆	1.55	53.07	91.85	346.97	EEU-FC1J821L
	1000	16	31.5	7.5	0.80	630.0	0.043	2670	5000	P11280-ND◆	1.70	60.05	105.08	400.32	EEU-FC1J102U
	1000	16	35.5	7.5	0.80	630.0	0.036	2770	5000	P10355-ND◆	1.95	68.74	120.29	458.24	EEU-FC1J102
	1200	16	40	7.5	0.80	756.0	0.030	2825	5000	P11282-ND	2.15	75.72	132.51	504.80	EEU-FC1J122L
	1200	18	31.5	7.5	0.80	756.0	0.032	2950	5000	P11281-ND◆	2.21	78.04	136.56	520.24	EEU-FC1J122
	1500	18	35.5	7.5	0.80	945.0	0.030	3095	5000	P10356-ND◆	2.39	84.44	147.78	562.96	EEU-FC1J152
	1800	18	40	7.5	0.80	1134.0	0.025	3205	5000	P11283-ND◆	2.82	99.47	174.07	663.12	EEU-FC1J182
100	1.0	5	11	2.0	0.50	1.0	7.500	15	1000	P10765-ND◆	.29	7.12	12.21	45.79	EEU-FC2A1R0
	2.2	5	11	2.0	0.50	2.2	5.400	35	1000	P10766-ND◆	.29	7.12	12.21	45.79	EEU-FC2A2R2
	3.3	5	11	2.0	0.50	3.3	4.400	50	1000	P10767-ND◆	.29	7.12	12.21	45.79	EEU-FC2A3R3
	4.7	5	11	2.0	0.50	4.7	4.400	65	1000	P10768-ND◆	.29	7.12	12.21	45.79	EEU-FC2A4R7
	10	6.3	11.2	2.5	0.50	10.0	1.800	114	1000	P10769-ND◆	.37	9.05	15.51	58.16	EEU-FC2A100
	22	8	11.5	3.5	0.60	22.0	0.680	260	2000	P10770-ND◆	.43	11.39	19.85	73.50	EEU-FC2A220
	33	10	12.5	5.0	0.60	33.0	0.530	306	3000	P10771-ND◆	.60	16.00	27.86	103.20	EEU-FC2A330
	33	8	15	3.5	0.60	33.0	0.450	340	2000	P10772-ND◆	.60	16.00	27.86	103.20	EEU-FC2A330L
	47	10	20	5.0	0.60	47.0	0.240	463	3000	P10773-ND◆	.78	23.11	39.62	156.85	EEU-FC2A470
	68	10	25	5.0	0.60	68.0	0.210	599	3000	P10774-ND◆	.80	25.11	43.25	167.40	EEU-FC2A680L
	100	12.5	20	5.0	0.60	100.0	0.180	671	5000	P10776-ND◆	1.00	31.44	54.15	209.61	EEU-FC2A101
	100	10	30	5.0	0.60	100.0	0.150	698	3000	P10775-ND◆	.98	30.82	53.08	205.47	EEU-FC2A101L
	150	18	15	7.5	0.80	150.0	0.120	917	5000	P10778-ND◆	1.50	51.48	89.10	336.60	EEU-FC2A151S
	150	12.5	25	5.0	0.60	150.0	0.110	807	5000	P10777-ND◆	1.08	36.95	63.95	241.57	EEU-FC2A151
	220	16	25	7.5	0.80	220.0	0.089	1170	5000	P10780-ND◆	1.63	55.90	96.75	365.50	EEU-FC2A221
	220	12.5	35	5.0	0.80	220.0	0.087	1040	5000	P10779-ND◆	1.49	51.00	88.27	333.46	EEU-FC2A221L
	270	12.5	40	5.0	0.80	270.0	0.072	1130	5000	P10781-ND◆	1.71	58.38	101.05	381.74	EEU-FC2A271L
	330	18	25	7.5	0.80	330.0	0.070	1420	5000	P10783-ND◆	2.13	75.06	131.36	500.40	EEU-FC2A331S
	330	16	31.5	7.5	0.80	330.0	0.062	1520	5000	P10782-ND◆	1.87	66.04	115.56	440.24	EEU-FC2A331
	390	16	35.5	7.5	0.80	390.0	0.053	1730	5000	P10784-ND◆	2.14	75.60	132.30	504.00	EEU-FC2A391L
	470	16	40	7.5	0.80	470.0	0.047	1920	5000	P10874-ND◆	2.36	83.29	145.76	555.28	EEU-FC2A471
	680	18	40	7.5	0.80	680.0	0.036	2300	5000	P10875-ND◆	3.10	109.40	191.46	729.36	EEU-FC2A681

◆ ***RoHS Compliant***

Panasonic® FM Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

FEATURES:

• Low Impedance: 40 ~ 70% lower than FC Series • High Ripple Current: 50% higher than FC Series • Long Life: 2000 ~ 7000 hours at 105°C • PVC free, Pb free • Appearance: Black body with gold markings

SPECIFICATIONS:

• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01 CV (µA) measured after 2 minutes application of rated working voltage at 20°C

• **tan** δ (120 Hz, 20°C)

Working volt. (VDC)	6.3	10	16	25	35	50
tan δ **max.**	0.22	0.19	0.16	0.14	0.12	0.10

For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Endurance:

Test Conditions — Duration: 3000 hours (for Ø8x11.5 ~ 15mm), 4000 hours (for Ø8x20, Ø10x12.5 ~ 16mm), 5000 hours (for Ø10x20 ~ 25, Ø12.5x20, Ø16x20mm), 7000 hours (for Ø12.5x25 ~ 35, Ø16x25mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)

Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** 16V ~ 50V: ±25% of initial measured value (6.3V ~ 10V: ±30%) • **tan** δ: ≤ 200% of initial specified value

Shelf Life: After storage for 1000 hours at 105 ±2°C with no voltage applied and then being stabilized at 20°C, capacitor shall meet the limits specified in Endurance. (With voltage treatment)

Frequency Correction Factor for Ripple Current

W.V. (VDC)	Capacitance (µF)	Frequency (Hz)				
		60	120	1K	10K	100K
6.3 ~ 50	22 ~ 33	0.45	0.55	0.75	0.90	1.00
	47 ~ 330	0.60	0.70	0.85	0.95	1.00
	390 ~ 1000	0.65	0.75	0.90	0.98	1.00
	1200 ~ 6800	0.75	0.80	0.95	1.00	1.00

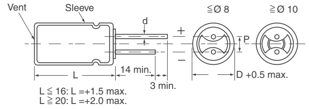

W.V. (VDC)	Cap. (µF)	Dimensions (mm)				Leakage Current (20°C) (2 min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (100kHz @ 105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	50	100	500	
6.3	150	5	11	2.0	0.5	9.5	0.300	280	2000	P12917-ND	.31	7.16	12.17	42.96	EEU-FM0J151
	330	6	11.2	2.5	0.5	20.8	0.130	455	2000	P12918-ND	.32	7.84	13.44	50.40	EEU-FM0J331
	560	8	11.5	3.5	0.6	35.3	0.056	950	3000	P12348-ND	.45	10.90	18.69	70.09	EEU-FM0J561
	820	8	15	3.5	0.6	51.7	0.041	1240	3000	P12352-ND	.50	13.47	23.46	86.90	EEU-FM0J821L
	1000	10	12.5	5.0	0.6	63.0	0.038	1290	4000	P12340-ND	.51	13.62	23.73	87.90	EEU-FM0J102
	1200	10	16	5.0	0.6	75.6	0.026	1790	4000	P12341-ND	.68	18.17	31.64	117.20	EEU-FM0J122
	1200	8	20	3.5	0.6	75.6	0.030	1560	4000	P12342-ND	.59	15.73	27.41	101.50	EEU-FM0J122L
	1500	10	20	5.0	0.6	94.5	0.019	2180	5000	P12343-ND	.67	19.68	33.74	133.57	EEU-FM0J152
	2200	10	25	5.0	0.6	138.6	0.018	2470	5000	P12344-ND	.75	22.13	37.94	150.20	EEU-FM0J222L
	3300	12.5	20	5.0	0.6	207.9	0.018	2600	5000	P12345-ND	.85	26.70	45.99	178.02	EEU-FM0J332
	3900	12.5	25	5.0	0.6	245.7	0.015	3190	7000	P12346-ND	1.06	33.60	57.87	224.01	EEU-FM0J392
	4700	12.5	30	5.0	0.8	296.1	0.013	3630	7000	P12347-ND	.97	33.32	57.67	217.86	EEU-FM0J472L
	5600	12.5	35	5.0	0.8	352.8	0.012	3750	7000	P12349-ND	1.43	48.96	84.74	320.11	EEU-FM0J562L
	5600	16	20	7.5	0.8	352.8	0.017	3300	5000	P12350-ND	1.17	39.99	69.21	261.46	EEU-FM0J562S
	6800	16	25	7.5	0.8	428.4	0.014	3820	7000	P12351-ND	1.39	47.59	82.37	311.19	EEU-FM0J682
10	100	5	11	2.0	0.5	10.0	0.300	280	2000	P12919-ND	.31	7.16	12.17	42.96	EEU-FM1A101
	220	6	11.2	2.5	0.5	22.0	0.130	455	2000	P12920-ND	.32	7.84	13.44	50.40	EEU-FM1A221
	470	8	11.5	3.5	0.6	47.0	0.056	950	3000	P12361-ND	.45	10.90	18.69	70.09	EEU-FM1A471
	680	10	12.5	5.0	0.6	68.0	0.038	1290	4000	P12364-ND	.51	13.62	23.73	87.90	EEU-FM1A681
	680	8	15	3.5	0.6	68.0	0.041	1240	3000	P12365-ND	.50	13.47	23.46	86.90	EEU-FM1A681L
	1000	10	16	5.0	0.6	100.0	0.026	1790	4000	P12353-ND	.68	18.17	31.64	117.20	EEU-FM1A102
	1000	8	20	3.5	0.6	100.0	0.030	1560	4000	P12354-ND	.59	15.73	27.41	101.50	EEU-FM1A102L
	1200	10	20	5.0	0.6	120.0	0.019	2180	5000	P12355-ND	.67	19.68	33.74	133.57	EEU-FM1A122
	1500	10	25	5.0	0.6	150.0	0.018	2470	5000	P12356-ND	.75	22.13	37.94	150.20	EEU-FM1A152L
	2200	12.5	20	5.0	0.6	220.0	0.018	2600	5000	P12357-ND	.85	26.70	45.99	178.02	EEU-FM1A222
	3300	12.5	25	5.0	0.6	330.0	0.015	3190	7000	P12735-ND	1.06	33.60	57.87	224.01	EEU-FM1A332
	3900	12.5	30	5.0	0.8	390.0	0.013	3630	7000	P12736-ND	.97	33.32	57.67	217.86	EEU-FM1A392L
	3900	16	20	7.5	0.8	390.0	0.017	3300	5000	P12737-ND	1.17	39.99	69.21	261.46	EEU-FM1A392S
	4700	12.5	35	5.0	0.8	470.0	0.012	3750	7000	P12362-ND	1.43	48.96	84.74	320.11	EEU-FM1A472L
	5600	16	25	7.5	0.8	560.0	0.014	3820	7000	P12363-ND	1.39	47.59	82.37	311.19	EEU-FM1A562
16	68	5	11	2.0	0.5	10.9	0.300	280	2000	P12921-ND	.31	7.16	12.17	42.96	EEU-FM1C680
	120	6	11.2	2.5	0.5	19.2	0.130	455	2000	P12922-ND	.32	7.84	13.44	50.40	EEU-FM1C121
	330	8	11.5	3.5	0.6	52.8	0.056	950	3000	P12372-ND	.45	10.90	18.69	70.09	EEU-FM1C331
	470	10	12.5	5.0	0.6	75.2	0.038	1290	4000	P12375-ND	.51	13.62	23.73	87.90	EEU-FM1C471
	470	8	15	3.5	0.6	75.2	0.041	1240	3000	P12376-ND	.50	13.47	23.46	86.90	EEU-FM1C471L
	680	10	16	5.0	0.6	108.8	0.026	1790	4000	P12377-ND	.68	18.17	31.64	117.20	EEU-FM1C681
	680	8	20	3.5	0.6	108.8	0.030	1560	4000	P12378-ND	.59	15.73	27.41	101.50	EEU-FM1C681L
	1000	10	20	5.0	0.6	160.0	0.019	2180	5000	P12366-ND	.67	19.68	33.74	133.57	EEU-FM1C102
	1200	10	25	5.0	0.6	192.0	0.018	2470	5000	P12367-ND	.75	22.13	37.94	150.20	EEU-FM1C122L
	1500	12.5	20	5.0	0.6	240.0	0.018	2600	5000	P12368-ND	.85	26.70	45.99	178.02	EEU-FM1C152
	2200	12.5	25	5.0	0.6	352.0	0.015	3190	7000	P12369-ND	1.06	33.60	57.87	224.01	EEU-FM1C222
	2700	12.5	30	5.0	0.8	432.0	0.013	3630	7000	P12370-ND	.97	33.32	57.67	217.86	EEU-FM1C272L
	2700	16	20	7.5	0.8	432.0	0.017	3300	5000	P12371-ND	1.17	39.99	69.21	261.46	EEU-FM1C272S
	3300	12.5	35	5.0	0.8	528.0	0.012	3750	7000	P12373-ND	1.43	48.96	84.74	320.11	EEU-FM1C332L
	3900	16	25	7.5	0.8	624.0	0.014	3820	7000	P12374-ND	1.39	47.59	82.37	311.19	EEU-FM1C392
25	47	5	11	2.0	0.5	11.8	0.300	280	2000	P12923-ND	.31	7.16	12.17	42.96	EEU-FM1E470
	100	6	11.2	2.5	0.5	25.0	0.130	455	2000	P12924-ND	.32	7.84	13.44	50.40	EEU-FM1E101
	220	8	11.5	3.5	0.6	55.0	0.056	950	3000	P12383-ND	.45	10.90	18.69	70.09	EEU-FM1E221
	330	10	12.5	5.0	0.6	82.5	0.038	1290	4000	P12386-ND	.51	13.62	23.73	87.90	EEU-FM1E331
	330	8	15	3.5	0.6	82.5	0.041	1240	3000	P12387-ND	.50	13.47	23.46	86.90	EEU-FM1E331L
	470	10	16	5.0	0.6	117.5	0.026	1790	4000	P12388-ND	.68	18.17	31.64	117.20	EEU-FM1E471
	470	8	20	3.5	0.6	117.5	0.030	1560	4000	P12389-ND	.59	15.73	27.41	101.50	EEU-FM1E471L
	680	10	20	5.0	0.6	170.0	0.019	2180	5000	P12390-ND	.67	19.68	33.74	133.57	EEU-FM1E681
	820	10	25	5.0	0.6	205.0	0.018	2470	5000	P12391-ND	.75	22.13	37.94	150.20	EEU-FM1E821L
	1000	12.5	20	5.0	0.6	250.0	0.018	2600	5000	P12379-ND	.85	26.70	45.99	178.02	EEU-FM1E102
	1500	12.5	25	5.0	0.6	375.0	0.015	3190	7000	P12380-ND	1.06	33.60	57.87	224.01	EEU-FM1E152
	1800	12.5	30	5.0	0.8	450.0	0.013	3630	7000	P12381-ND	.97	33.32	57.67	217.86	EEU-FM1E182L
	1800	16	20	7.5	0.8	450.0	0.017	3300	5000	P12382-ND	1.17	39.99	69.21	261.46	EEU-FM1E182S
	2200	12.5	35	5.0	0.8	550.0	0.012	3750	7000	P12384-ND	1.43	48.96	84.74	320.11	EEU-FM1E222L
	2700	16	25	7.5	0.8	675.0	0.014	3820	7000	P12385-ND	1.39	47.59	82.37	311.19	EEU-FM1E272
35	33	5	11	2.0	0.5	11.6	0.300	280	2000	P12925-ND	.31	7.16	12.17	42.96	EEU-FM1V330
	68	6	11.2	2.5	0.5	23.8	0.130	455	2000	P12926-ND	.32	7.84	13.44	50.40	EEU-FM1V680
	150	8	11.5	3.5	0.6	52.5	0.056	950	3000	P12408-ND	.45	10.90	18.69	70.09	EEU-FM1V151
	220	10	12.5	5.0	0.6	77.0	0.038	1290	4000	P12411-ND	.51	13.62	23.73	87.90	EEU-FM1V221
	220	8	15	3.5	0.6	77.0	0.041	1240	3000	P12412-ND	.50	13.47	23.46	86.90	EEU-FM1V221L
	330	10	16	5.0	0.6	115.5	0.026	1790	4000	P12413-ND	.68	18.17	31.64	117.20	EEU-FM1V331
	330	8	20	3.5	0.6	115.5	0.030	1560	4000	P12414-ND	.59	15.73	27.41	101.50	EEU-FM1V331L
	470	10	20	5.0	0.6	164.5	0.019	2180	5000	P12415-ND	.67	19.68	33.74	133.57	EEU-FM1V471
	560	10	25	5.0	0.6	196.0	0.018	2470	5000	P12416-ND	.75	22.13	37.94	150.20	EEU-FM1V561L
	680	12.5	20	5.0	0.6	238.0	0.018	2600	5000	P12417-ND	.85	26.70	45.99	178.02	EEU-FM1V681
	1000	12.5	25	5.0	0.6	350.0	0.015	3190	7000	P12405-ND	1.06	33.60	57.87	224.01	EEU-FM1V102
	1200	12.5	30	5.0	0.8	420.0	0.013	3630	7000	P12406-ND	.97	33.32	57.67	217.86	EEU-FM1V122L
	1200	16	20	7.5	0.8	420.0	0.017	3300	5000	P12407-ND	1.17	39.99	69.21	261.46	EEU-FM1V122S
	1500	12.5	35	5.0	0.8	525.0	0.012	3750	7000	P12409-ND	1.43	48.96	84.74	320.11	EEU-FM1V152L
	1800	16	25	7.5	0.8	630.0	0.014	3820	7000	P12410-ND	1.36	46.59	80.64	304.64	EEU-FM1V182
50	22	5	11	2.0	0.5	11.0	0.340	250	2000	P12927-ND	.31	7.16	12.17	42.96	EEU-FM1H220
	56	6	11.2	2.5	0.5	28.0	0.140	405	2000	P12928-ND	.32	7.84	13.44	50.40	EEU-FM1H560
	100	8	11.5	3.5	0.6	50.0	0.061	870	3000	P12392-ND	.45	10.90	18.69	70.09	EEU-FM1H101
	120	8	15	3.5	0.6	60.0	0.045	1140	3000	P12394-ND	.50	13.47	23.46	86.90	EEU-FM1H121L
	150	10	12.5	5.0	0.6	75.0	0.042	1170	4000	P12395-ND	.51	13.62	23.73	87.90	EEU-FM1H151
	180	8	20	3.5	0.6	90.0	0.033	1430	4000	P12396-ND	.59	15.73	27.41	101.50	EEU-FM1H181L
	220	10	16	5.0	0.6	110.0	0.030	1650	4000	P12397-ND	.68	18.17	31.64	117.20	EEU-FM1H221
	270	10	20	5.0	0.6	135.0	0.023	1890	5000	P12398-ND	.67	19.68	33.74	133.57	EEU-FM1H271
	330	10	25	5.0	0.6	165.0	0.022	2150	5000	P12399-ND	.75	22.13	37.94	150.20	EEU-FM1H331L
	470	12.5	20	5.0	0.6	235.0	0.022	2260	5000	P12400-ND	.85	26.70	45.99	178.02	EEU-FM1H471
	560	12.5	25	5.0	0.6	280.0	0.018	2660	7000	P12401-ND	1.06	33.60	57.87	224.01	EEU-FM1H561
	680	12.5	30	5.0	0.8	340.0	0.016	3160	7000	P12402-ND	.97	33.32	57.67	217.86	EEU-FM1H681L
	820	12.5	35	5.0	0.8	410.0	0.014	3270	7000	P12403-ND	1.43	48.96	84.74	320.11	EEU-FM1H821L
	820	16	20	7.5	0.8	410.0	0.019	2870	5000	P12404-ND	1.17	39.99	69.21	261.46	EEU-FM1H821S
	1000	16	25	7.5	0.8	500.0	0.016	3320	7000	P12393-ND	1.39	47.59	82.37	311.19	EEU-FM1H102

Panasonic® EB Series

Radial Lead Type Capacitor for High Ripple Long Life Applications

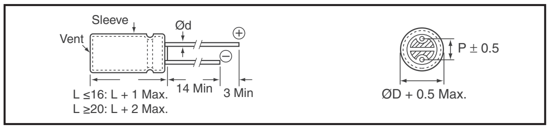

FEATURES: • High Ripple (High Frequency) • Life Time: 105°C 5,000 ~ 10,000 hours

MAIN APPLICATION: Electronic Ballast, Power supply

SPECIFICATIONS: • **Operating Temperature Range:** **10 ~ 63VDC:** -40°C ~ 105°C, **160 ~ 450VDC:** -25°C ~ 105°C • **Rated Working Voltage Range:** 10 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** **10 ~ 63VDC:** I ≤ 0.01 CV or 3µ A, **160 ~ 450VDC:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C, which ever is greater. • **Endurance:** After following life test with DC voltage and 105 ±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. **10 ~ 63VDC:** Duration: 5,000 ~ 10,000 hours. *Capacitance change:* ±30% of initial measured value *tan* δ*:* ≤ 300% of initial specified value. *DC Leakage Current:* ≤ initial specified value. **160 ~ 450VDC:** Duration 5,000 hours. *Capacitance change:* ±20% of initial measured value. *DF:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value • **Shelf Life:** After storage for 1,000 hours at 105 ±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

(10 ~ 63 VDC) **Ripple Current Frequency Multiplier**

Capacitance (µF)	Frequency (Hz)				
	60	120	1k	10k	100k
0.47 ~ 10	0.75	1	1.40	1.55	1.65
22 ~ 470	0.85	1	1.20	1.25	1.30
1000 ~ 3300	0.95	1	1.05	1.10	1.15

W.V. (VDC)	Frequency (Hz)			
	120	1k	10k ~ 30k	30k ~ 100k
160 ~ 250	0.55	0.85	0.90	1.00
350 ~ 450	0.50	0.80	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	50	100	500	1,000	5,000	
10	100	10	0.30	105 @ 120Hz	7000	5	15	2.0	0.5	P13114-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1A101
	100	10	0.30	66 @ 120Hz	5000	5	11	2.0	0.5	P13455-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1A101S
	220	22	0.30	152 @ 120Hz	7000	6.3	15	2.5	0.5	P13116-ND	.44	11.70	20.39	75.50	128.35	113.25/M	EEU-EB1A221
	220	22	0.30	100 @ 120Hz	5000	6.3	11.2	2.5	0.5	P13456-ND	.32	7.67	13.14	49.28	83.22	74.46/M	EEU-EBIA221S
	470	47	0.30	278 @ 120Hz	10000	8	15	3.5	0.6	P13118-ND	.53	14.04	24.46	90.60	154.02	135.90/M	EEU-EB1A471
	470	47	0.30	180 @ 120Hz	5000	8	11.5	3.5	0.6	P13457-ND	.47	11.50	19.71	73.91	124.83	111.69/M	EEU-EB1A471S
	2200	220	0.32	540 @ 120Hz	10000	12.5	20	5.0	0.6	P13115-ND	.87	27.45	47.27	182.97	315.12	279.54/M	EEU-EB1A222
	3300	330	0.34	802 @ 120Hz	10000	12.5	25	5.0	0.6	P13117-ND	1.04	32.71	56.33	218.07	375.57	333.17/M	EEU-EB1A332
16	1000	160	0.25	430 @ 120Hz	10000	10	20	5.0	0.6	P13119-ND	.67	19.70	33.77	133.67	225.12	196.98/M	EEU-EB1C102
	2200	352	0.27	706 @ 120Hz	10000	12.5	25	5.0	0.6	P13120-ND	1.04	32.71	56.33	218.07	375.57	333.17/M	EEU-EB1C222
25	47	11.75	0.22	78 @ 120Hz	7000	5	15	2.0	0.5	P13125-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1E470
	47	11.75	0.22	55 @ 120Hz	5000	5	11	2.0	0.5	P13458-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1E470S
	100	25	0.22	135 @ 120Hz	7000	6.3	15	2.5	0.5	P13122-ND	.44	11.70	20.39	75.50	128.35	113.25/M	EEU-EB1E101
	100	25	0.22	95 @ 120Hz	5000	6.3	11.2	2.5	0.5	P13476-ND	.32	7.67	13.14	49.28	83.22	74.46/M	EEU-EB1E101S
	220	55	0.22	125 @ 120Hz	5000	8	11.5	3.5	0.6	P13477-ND	.47	11.50	19.71	73.91	124.83	111.69/M	EEU-EB1E221S
	330	82.5	0.22	255 @ 120Hz	10000	8	15	3.5	0.6	P13123-ND	.53	14.04	24.46	90.60	154.02	135.90/M	EEU-EB1E331
	470	117.5	0.22	321 @ 120Hz	10000	10	16	5.0	0.6	P13124-ND	.71	18.91	32.94	122.00	207.40	183.00/M	EEU-EB1E471
	1000	250	0.22	498 @ 120Hz	10000	12.5	20	5.0	0.6	P13121-ND	.87	27.45	47.27	182.97	315.12	279.54/M	EEU-EB1E102
35	33	11.55	0.18	66 @ 120Hz	7000	5	15	2.0	0.5	P13129-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1V330
	33	11.55	0.18	46 @ 120Hz	5000	5	11	2.0	0.5	P13475-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1V330S
	220	77	0.18	197 @ 120Hz	10000	8	15	3.5	0.6	P13127-ND	.53	14.04	24.46	90.60	154.02	135.90/M	EEU-EB1V221
	330	115.5	0.18	278 @ 120Hz	10000	10	16	5.0	0.6	P13128-ND	.71	18.91	32.94	122.00	207.40	183.00/M	EEU-EB1V331
	470	164.5	0.18	349 @ 120Hz	10000	10	20	5.0	0.6	P13130-ND	.67	19.70	33.77	133.67	225.12	196.98/M	EEU-EB1V471
	1000	350	0.18	586 @ 120Hz	10000	12.5	25	5.0	0.6	P13126-ND	1.04	32.71	56.33	218.07	375.57	333.17/M	EEU-EB1V102
50	.47	3	0.15	4 @ 120Hz	5000	5	11	2.0	0.5	P13466-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1HR47S
	1.0	3	0.15	8 @ 120Hz	5000	5	11	2.0	0.5	P13460-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1H1R0S
	2.2	3	0.15	15 @ 120Hz	5000	5	11	2.0	0.5	P13462-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1H2R2S
	3.3	3	0.15	18 @ 120Hz	5000	5	11	2.0	0.5	P13463-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1H3R3S
	4.7	3	0.15	18 @ 120Hz	5000	5	11	2.0	0.5	P13465-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1HR47S
	10	5	0.15	27 @ 120Hz	5000	5	11	2.0	0.5	P13478-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1H100S
	22	11	0.15	55 @ 120Hz	7000	5	15	2.0	0.5	P13132-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1H220
	22	11	0.15	39 @ 120Hz	5000	5	11	2.0	0.5	P13461-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1H220S
	47	23.5	0.15	87 @ 120Hz	7000	6.3	15	2.5	0.5	P13135-ND	.44	11.70	20.39	75.50	128.35	113.25/M	EEU-EB1H470
	47	23.5	0.15	61 @ 120Hz	5000	6.3	11.2	2.5	0.5	P13464-ND	.32	7.67	13.14	49.28	83.22	74.46/M	EEU-EB1H470S
	100	50	0.15	99 @ 120Hz	5000	8	11.5	3.5	0.6	P13459-ND	.47	11.50	19.71	73.91	124.83	111.69/M	EEU-EB1H101S
	220	110	0.15	234 @ 120Hz	10000	10	16	5.0	0.6	P13131-ND	.71	18.91	32.94	122.00	207.40	183.00/M	EEU-EB1H221
	330	165	0.15	293 @ 120Hz	10000	10	20	5.0	0.6	P13133-ND	.67	19.70	33.77	133.67	225.12	196.98/M	EEU-EB1H331
	470	235	0.15	370 @ 120Hz	10000	12.5	20	5.0	0.6	P13134-ND	.87	27.45	47.27	182.97	315.12	279.54/M	EEU-EB1H471
63	0.47	3	0.12	6 @ 120Hz	7000	5	15	2.0	0.5	P13136-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1JR47
	0.47	3	0.12	4.5 @ 120Hz	5000	5	11	2.0	0.5	P13474-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1JR47S
	1.0	3	0.12	12 @ 120Hz	7000	5	15	2.0	0.5	P13139-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1J1R0
	1.0	3	0.12	9 @ 120Hz	5000	5	11	2.0	0.5	P13468-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1J1R0S
	2.2	3	0.12	22 @ 120Hz	7000	5	15	2.0	0.5	P13140-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1J2R2
	2.2	3	0.12	16.5 @ 120Hz	5000	5	11	2.0	0.5	P13469-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1J2R2S
	3.3	3	0.12	30 @ 120Hz	7000	5	15	2.0	0.5	P13143-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1J3R3
	3.3	3	0.12	20 @ 120Hz	5000	5	11	2.0	0.5	P13471-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1J3R3S
	4.7	3	0.12	30 @ 120Hz	7000	5	15	2.0	0.5	P13146-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1J4R7
	4.7	3	0.12	23 @ 120Hz	5000	5	11	2.0	0.5	P13473-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1J4R7S
	10	6.3	0.12	46 @ 120Hz	7000	5	15	2.0	0.5	P13138-ND	.37	8.89	15.24	57.15	96.52	86.36/M	EEU-EB1J100
	10	6.3	0.12	30 @ 120Hz	5000	5	11	2.0	0.5	P13467-ND	.30	6.88	11.70	41.28	72.24	63.64/M	EEU-EB1J100S
	22	13.86	0.12	55 @ 120Hz	7000	6.3	15	2.5	0.5	P13142-ND	.44	11.70	20.39	75.50	128.35	113.25/M	EEU-EB1J220
	33	20.79	0.12	71 @ 120Hz	7000	6.3	15	2.5	0.5	P13145-ND	.44	11.70	20.39	75.50	128.35	113.25/M	EEU-EB1J330
	33	20.79	0.12	50 @ 120Hz	5000	6.3	11.2	2.5	0.5	P13470-ND	.32	7.67	13.14	49.28	83.22	74.46/M	EEU-EB1J330S
	47	29.61	0.12	94 @ 120Hz	10000	8	15	3.5	0.6	P13148-ND	.53	14.04	24.46	90.60	154.02	135.90/M	EEU-EB1J470
	47	29.61	0.12	80 @ 120Hz	5000	8	11.5	3.5	0.6	P13472-ND	.47	11.50	19.71	73.91	124.83	111.69/M	EEU-EB1J470S
	100	63	0.12	180 @ 120Hz	10000	8	15	3.5	0.6	P13137-ND	.53	14.04	24.46	90.60	154.02	135.90/M	EEU-EB1J101
	220	138.6	0.12	292 @ 120Hz	10000	10	20	5.0	0.6	P13141-ND	.67	19.70	33.77	133.67	225.12	196.98/M	EEU-EB1J221
	330	207.9	0.12	381 @ 120Hz	10000	12.5	20	5.0	0.6	P13144-ND	.87	27.45	47.27	182.97	315.12	279.54/M	EEU-EB1J331
	470	296.1	0.12	454 @ 120Hz	10000	12.5	25	5.0	0.6	P13147-ND	1.04	32.71	56.33	218.07	375.57	333.17/M	EEU-EB1J471
160	22	221.2	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5900-ND	.68	20.19	34.61	136.99	230.72	201.88/M	EEU-EB2C220
	33	326.8	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5901-ND	.68	20.19	34.61	136.99	230.72	201.88/M	EEU-EB2C330
	47	461.2	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5902-ND	.93	29.21	50.31	194.76	335.42	297.55/M	EEU-EB2C470
	68	662.8	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5903-ND	1.06	33.55	57.78	223.65	385.18	341.69/M	EEU-EB2C680
	68	662.8	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5904-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2C680S
	100	970.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5905-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2C101
	100	970.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5906-ND	1.83	62.50	108.18	408.68	721.20	649.08/M	EEU-EB2C101S
	150	1450.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5907-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2C151
	150	1450.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5908-ND	1.80	63.48	111.09	423.20	740.60	687.70/M	EEU-EB2C151S
	220	2122.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5909-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2C221
	220	2122.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5910-ND	1.80	63.48	111.09	423.20	740.60	687.70/M	EEU-EB2C221S
	330	3178.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5911-ND	2.18	76.94	134.65	512.96	897.68	833.56/M	EEU-EB2C331
200	22	274.0	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5912-ND	.68	20.19	34.61	136.99	230.72	201.88/M	EEU-EB2D220
	33	406.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5913-ND	.93	29.21	50.31	194.76	335.42	297.55/M	EEU-EB2D330
	47	574.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5914-ND	.96	30.29	52.17	201.96	347.82	308.55/M	EEU-EB2D470
	68	826.0	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5915-ND	1.10	37.51	64.91	245.23	432.75	389.48/M	EEU-EB2D680

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	50	100	500	1,000	5,000	
200	68	826.0	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5916-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2D680S
	100	1210.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5917-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2D101
	100	1210.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5918-ND	1.83	62.50	108.18	408.68	721.20	649.08/M	EEU-EB2D101S
	150	1810.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5919-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2D151
	150	1810.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5920-ND	1.80	63.48	111.09	423.20	740.60	687.70/M	EEU-EB2D151S
	220	2650.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5921-ND	2.18	76.94	134.65	512.96	897.68	833.56/M	EEU-EB2D221
250	22	340.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5922-ND	.99	31.37	54.03	209.16	360.22	319.55/M	EEU-EB2E220
	33	505.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5923-ND	.99	31.37	54.03	209.16	360.22	319.55/M	EEU-EB2E330
	47	715.0	0.15	710 @ 100kHz	5000	12.5	25	5.0	0.6	P5924-ND	1.10	37.51	64.91	245.23	432.75	389.48/M	EEU-EB2E470
	47	715.0	0.15	710 @ 100kHz	5000	16	20	7.5	0.8	P5925-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2E470S
	68	1030.0	0.15	990 @ 100kHz	5000	16	25	7.5	0.8	P5926-ND	1.40	47.92	82.94	313.31	552.90	497.61/M	EEU-EB2E680
	68	1030.0	0.15	990 @ 100kHz	5000	18	20	7.5	0.8	P5927-ND	1.83	62.50	108.18	408.68	721.20	649.08/M	EEU-EB2E680S
	100	1510.0	0.15	1200 @ 100kHz	5000	16	31.5	7.5	0.8	P5928-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2E101
	100	1510.0	0.15	1200 @ 100kHz	5000	18	25	7.5	0.8	P5929-ND	1.80	63.48	111.09	423.20	740.60	687.70/M	EEU-EB2E101S
	150	2260.0	0.15	1470 @ 100kHz	5000	18	31.5	7.5	0.8	P5930-ND	2.18	76.94	134.65	512.96	897.68	833.56/M	EEU-EB2E151
350	10	220.0	0.20	270 @ 100kHz	5000	10	20	5.0	0.6	P5931-ND	.80	23.56	40.39	159.89	269.28	235.62/M	EEU-EB2V100
	22	472.0	0.20	350 @ 100kHz	5000	12.5	20	5.0	0.6	P5932-ND	.97	33.33	57.69	217.94	384.60	346.14/M	EEU-EB2V220
	33	703.0	0.20	480 @ 100kHz	5000	16	20	7.5	0.8	P5933-ND	1.52	52.09	90.16	340.60	601.05	540.95/M	EEU-EB2V330S
	47	997.0	0.20	640 @ 100kHz	5000	16	25	7.5	0.8	P5934-ND	1.64	56.25	97.36	367.80	649.05	584.15/M	EEU-EB2V470
	47	997.0	0.20	640 @ 100kHz	5000	18	20	7.5	0.8	P5935-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2V470S
	68	1438.0	0.20	780 @ 100kHz	5000	16	31.5	7.5	0.8	P5936-ND	2.13	75.01	131.27	500.08	875.14	812.63/M	EEU-EB2V680
	68	1438.0	0.20	780 @ 100kHz	5000	18	25	7.5	0.8	P5937-ND	2.13	75.01	131.27	500.08	875.14	812.63/M	EEU-EB2V680S
	100	2110.0	0.20	970 @ 100kHz	5000	18	31.5	7.5	0.8	P5938-ND	2.51	88.48	154.83	589.84	1032.22	958.49/M	EEU-EB2V101
400	10	250.0	0.24	250 @ 100kHz	5000	10	20	5.0	0.6	P5939-ND	.80	23.56	40.39	159.89	269.28	235.62/M	EEU-EB2G100
	22	538.0	0.24	410 @ 100kHz	5000	12.5	25	5.0	0.6	P5940-ND	1.22	41.67	72.11	272.43	480.75	432.68/M	EEU-EB2G220
	22	538.0	0.24	410 @ 100kHz	5000	16	20	7.5	0.8	P5941-ND	1.52	52.09	90.16	340.60	601.05	540.95/M	EEU-EB2G220S
	33	802.0	0.24	600 @ 100kHz	5000	16	25	7.5	0.8	P5942-ND	1.64	56.25	97.36	367.80	649.05	584.15/M	EEU-EB2G330
	33	802.0	0.24	600 @ 100kHz	5000	18	20	7.5	0.8	P5943-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2G330S
	47	1138.0	0.24	730 @ 100kHz	5000	16	31.5	7.5	0.8	P5944-ND	2.13	75.01	131.27	500.08	875.14	812.63/M	EEU-EB2G470
	47	1138.0	0.24	730 @ 100kHz	5000	18	25	7.5	0.8	P5945-ND	2.13	75.01	131.27	500.08	875.14	812.63/M	EEU-EB2G470S
450	10	280.0	0.24	310 @ 100kHz	5000	12.5	20	5.0	0.6	P5946-ND	.97	33.33	57.69	217.94	384.60	346.14/M	EEU-EB2W100
	22	604.0	0.24	560 @ 100kHz	5000	16	25	7.5	0.8	P5947-ND	1.64	56.25	97.36	367.80	649.05	584.15/M	EEU-EB2W220
	22	604.0	0.24	560 @ 100kHz	5000	18	20	7.5	0.8	P5948-ND	1.74	61.55	107.71	410.32	718.06	666.77/M	EEU-EB2W220S
	33	901.0	0.24	680 @ 100kHz	5000	16	31.5	7.5	0.8	P5949-ND	2.13	75.01	131.27	500.08	875.14	812.63/M	EEU-EB2W330
	33	901.0	0.24	680 @ 100kHz	5000	18	25	7.5	0.8	P5950-ND	1.96	69.25	121.19	461.68	807.94	750.23/M	EEU-EB2W330S
	47	1279.0	0.24	850 @ 100kHz	5000	18	31.5	7.5	0.8	P5951-ND	2.51	88.48	154.83	589.84	1032.22	958.49/M	EEU-EB2W470

ED Series

FEATURES:

- High Ripple (High Frequency) • Life Time: 8,000 ~ 10,000 hours @ 105°C

MAIN APPLICATION:

Electronic Ballast, Power Supply Input Circuit

SPECIFICATIONS:

• **Operating Temperature Range:** -25°C ~ 105°C • **Rated Working Voltage Range:** 160 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C whichever is greater • **Endurance:** After following life test with DC voltage and 105 ±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. *Capacitance change:* ±20% of initial measured value *tan* δ*:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value. • **Shelf Life:** After storage for 1,000 hours at 105 ±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

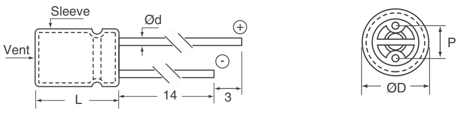

Ripple Current Frequency Multiplier

Capacitance (µF)	Frequency (Hz)					
	50	120	300	1k	10k	30k
Cap. < 100 µF	0.30	0.40	0.55	0.70	0.90	1.00
100 µF ≤ Cap.	0.35	0.45	0.60	0.75	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	50	100	500	1,000	5,000	
160	22	221.2	0.15	500@100kHz	8000	10	20	5.0	0.6	P13510-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2C220
	33	326.8	0.15	580@100kHz	8000	10	20	5.0	0.6	P13513-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2C330
	47	461.2	0.15	750@100kHz	8000	10	20	5.0	0.6	P13515-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2C470
	68	662.8	0.15	950@100kHz	10000	12.5	20	5.0	0.6	P13516-ND	.99	31.16	53.66	207.72	357.74	317.35/M	EEU-ED2C680
	82	797.2	0.15	1060@100kHz	10000	12.5	25	5.0	0.6	P13517-ND	1.14	38.86	67.25	254.07	448.35	403.52/M	EEU-ED2C820
	100	970.0	0.15	1170@100kHz	10000	12.5	25	5.0	0.6	P13506-ND	1.14	38.86	67.25	254.07	448.35	403.52/M	EEU-ED2C101
	100	970.0	0.15	1280@100kHz	10000	16	20	7.5	0.8	P13507-ND	1.43	48.97	84.76	320.20	565.05	508.55/M	EEU-ED2C101S
	150	1450.0	0.15	1400@100kHz	10000	16	25	7.5	0.8	P13508-ND	1.55	53.01	91.76	346.63	611.70	550.53/M	EEU-ED2C151
	150	1450.0	0.15	1400@100kHz	10000	18	20	7.5	0.8	P13509-ND	1.85	63.26	109.49	413.61	729.90	656.91/M	EEU-ED2C151S
	220	2122.0	0.15	1700@100kHz	10000	16	31.5	7.5	0.8	P13511-ND	1.82	64.14	112.25	427.60	748.30	694.85/M	EEU-ED2C221
	220	2122.0	0.15	1500@100kHz	10000	18	25	7.5	0.8	P13512-ND	1.87	66.00	115.50	440.00	770.00	715.00/M	EEU-ED2C221S
	330	3178	0.15	2000@100kHz	10000	18	31.5	7.5	0.8	P13514-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2C331
200	22	274.0	0.15	600@100kHz	8000	10	20	5.0	0.6	P13521-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2D220
	33	406.0	0.15	650@100kHz	8000	10	20	5.0	0.6	P13523-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2D330
	47	574.0	0.15	790@100kHz	10000	12.5	20	5.0	0.6	P13525-ND	.99	31.16	53.66	207.72	357.74	317.35/M	EEU-ED2D470
	68	826.0	0.15	950@100kHz	10000	12.5	25	5.0	0.6	P13526-ND	1.14	38.86	67.25	254.07	448.35	403.52/M	EEU-ED2D680
	68	826.0	0.15	1000@100kHz	10000	16	20	7.5	0.8	P13527-ND	1.43	48.97	84.76	320.20	565.05	508.55/M	EEU-ED2D680S
	82	994.0	0.15	1100@100kHz	10000	16	20	7.5	0.8	P13528-ND	1.43	48.97	84.76	320.20	565.05	508.55/M	EEU-ED2D820S
	100	1210.0	0.15	1300@100kHz	10000	16	25	7.5	0.8	P13518-ND	1.55	53.01	91.76	346.63	611.70	550.53/M	EEU-ED2D101
	100	1210.0	0.15	1280@100kHz	10000	18	20	7.5	0.8	P13519-ND	1.85	63.26	109.49	413.61	729.90	656.91/M	EEU-ED2D101S
	150	1810.0	0.15	1400@100kHz	10000	16	25	7.5	0.8	P13520-ND	1.55	53.01	91.76	346.63	611.70	550.53/M	EEU-ED2D151
	220	2650.0	0.15	2000@100kHz	10000	18	31.5	7.5	0.8	P13522-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2D221
	330	3970.0	0.15	2400@100kHz	10000	18	40	7.5	0.8	P13524-ND	4.28	148.59	269.53	1002.10	1865.97	1762.31/M	EEU-ED2D331
250	22	340.0	0.15	560@100kHz	8000	10	20	5.0	0.6	P13532-ND	.71	20.93	35.88	142.03	239.20	209.30/M	EEU-ED2E220
	33	505.0	0.15	710@100kHz	10000	12.5	20	5.0	0.6	P13534-ND	.99	31.16	53.66	207.72	357.74	317.35/M	EEU-ED2E330
	47	715.0	0.15	920@100kHz	10000	12.5	25	5.0	0.6	P13535-ND	1.14	38.86	67.25	254.07	448.35	403.52/M	EEU-ED2E470
	47	715.0	0.15	990@100kHz	10000	16	20	7.5	0.8	P13536-ND	1.43	48.97	84.76	320.20	565.05	508.55/M	EEU-ED2E470S
	68	1030.0	0.15	1000@100kHz	10000	16	20	7.5	0.8	P13537-ND	1.43	48.97	84.76	320.20	565.05	508.55/M	EEU-ED2E680S
	82	1240.0	0.15	1200@100kHz	10000	16	25	7.5	0.8	P13538-ND	1.55	53.01	91.76	346.63	611.70	550.53/M	EEU-ED2E820
	82	1240.0	0.15	1200@100kHz	10000	18	20	7.5	0.8	P13539-ND	1.85	63.26	109.49	413.61	729.90	656.91/M	EEU-ED2E820S
	100	1510.0	0.15	1500@100kHz	10000	16	31.5	7.5	0.8	P13529-ND	1.82	64.14	112.25	427.60	748.30	694.85/M	EEU-ED2E101
	100	1510.0	0.15	1500@100kHz	10000	18	25	7.5	0.8	P13530-ND	1.87	66.00	115.50	440.00	770.00	715.00/M	EEU-ED2E101S
	150	2260.0	0.15	1800@100kHz	10000	18	31.5	7.5	0.8	P13531-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2E151

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	50	100	500	1,000	5,000	
250	220	3310.0	0.15	2100@100kHz	10000	18	40	7.5	0.8	P13533-ND	4.28	148.59	269.53	1002.10	1865.97	1762.31/M	EEU-ED2E221
350	10	220.0	0.20	350@100kHz	8000	10	20	5.0	0.6	P13549-ND	.82	24.11	41.33	163.59	275.52	241.08/M	EEU-ED2V100
	22	472.0	0.20	480@100kHz	10000	12.5	20	5.0	0.6	P13551-ND	1.00	34.35	59.45	224.57	396.30	356.67/M	EEU-ED2V220
	33	703.0	0.20	640@100kHz	10000	16	20	7.5	0.8	P13552-ND	1.61	55.19	95.51	360.83	636.75	573.08/M	EEU-ED2V330S
	47	997.0	0.20	800@100kHz	10000	16	25	7.5	0.8	P13553-ND	1.79	61.24	106.00	400.44	706.65	635.99/M	EEU-ED2V470
	47	997.0	0.20	800@100kHz	10000	18	20	7.5	0.8	P13554-ND	1.92	67.86	118.76	452.40	791.70	735.15/M	EEU-ED2V470S
	68	1438.0	0.20	1100@100kHz	10000	16	31.5	7.5	0.8	P13555-ND	2.13	75.34	131.84	502.24	878.92	816.14/M	EEU-ED2V680
	68	1438.0	0.20	1000@100kHz	10000	18	25	7.5	0.8	P13556-ND	2.24	79.20	138.60	528.00	924.00	858.00/M	EEU-ED2V680S
	82	1732.0	0.20	1100@100kHz	10000	18	25	7.5	0.8	P13557-ND	2.24	79.20	138.60	528.00	924.00	858.00/M	EEU-ED2V820S
	100	2110.0	0.20	1200@100kHz	10000	18	31.5	7.5	0.8	P13550-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2V101
400	10	250.0	0.24	300@100kHz	8000	10	20	5.0	0.6	P13540-ND	.82	24.11	41.33	163.59	275.52	241.08/M	EEU-ED2G100
	15	370.0	0.24	410@100kHz	10000	12.5	20	5.0	0.6	P13541-ND	1.00	34.35	59.45	224.57	396.30	356.67/M	EEU-ED2G150
	22	538.0	0.24	500@100kHz	10000	12.5	25	5.0	0.6	P13542-ND	1.25	42.90	74.25	280.50	495.00	445.50/M	EEU-ED2G220
	22	538.0	0.24	600@100kHz	10000	16	20	7.5	0.8	P13543-ND	1.61	55.19	95.51	360.83	636.75	573.08/M	EEU-ED2G220S
	33	802.0	0.24	730@100kHz	10000	16	20	7.5	0.8	P13544-ND	1.61	55.19	95.51	360.83	636.75	573.08/M	EEU-ED2G330S
	47	1138.0	0.24	840@100kHz	10000	16	25	7.5	0.8	P13545-ND	1.79	61.24	106.00	400.44	706.65	635.99/M	EEU-ED2G470
	47	1138.0	0.24	840@100kHz	10000	18	20	7.5	0.8	P13546-ND	1.92	67.86	118.76	452.40	791.70	735.15/M	EEU-ED2G470S
	68	1642.0	0.24	1200@100kHz	10000	18	31.5	7.5	0.8	P13547-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2G680
	82	1978.0	0.24	1500@100kHz	10000	18	40	7.5	0.8	P13548-ND	4.28	148.59	269.53	1002.10	1865.97	1762.31/M	EEU-ED2G820
450	10	280.0	0.24	350@100kHz	10000	12.5	20	5.0	0.6	P13558-ND	1.00	34.35	59.45	224.57	396.30	356.67/M	EEU-ED2W100
	15	415.0	0.24	560@100kHz	10000	12.5	25	5.0	0.6	P13559-ND	1.14	38.86	67.25	254.07	448.35	403.52/M	EEU-ED2W150
	22	604.0	0.24	680@100kHz	10000	16	20	7.5	0.8	P13560-ND	1.61	55.19	95.51	360.83	636.75	573.08/M	EEU-ED2W220S
	33	901.0	0.24	850@100kHz	10000	16	31.5	7.5	0.8	P13561-ND	2.13	75.34	131.84	502.24	878.92	816.14/M	EEU-ED2W330
	33	901.0	0.24	850@100kHz	10000	18	25	7.5	0.8	P13562-ND	2.24	79.20	138.60	528.00	924.00	858.00/M	EEU-ED2W330S
	47	1279.0	0.24	1000@100kHz	10000	18	31.5	7.5	0.8	P13563-ND	3.17	109.77	199.11	740.30	1378.49	1301.91/M	EEU-ED2W470
	68	1846.0	0.24	1300@100kHz	10000	18	40	7.5	0.8	P13564-ND	4.28	148.59	269.53	1002.10	1865.97	1762.31/M	EEU-ED2W680

EE Series

FEATURES:

- High Ripple (High Frequency) • Life Time: 8,000 ~ 10,000 hours @ 105°C

MAIN APPLICATION:

- Electronic Ballast, Power Supply Input Circuit

SPECIFICATIONS:

• **Operating Temperature Range:** -25°C ~ 105°C • **Rated Working Voltage Range:** 160 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C whichever is greater • **Endurance:** After following life test with DC voltage and 105 ±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. *Capacitance change:* ±20% of initial measured value *tan δ:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value. • **Shelf Life:** After storage for 1,000 hours at 105 ±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

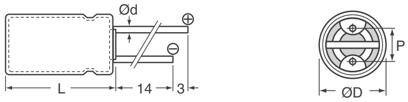

Ripple Current Frequency Multiplier

Capacitance (µF)	Frequency (Hz)					
	60	120	300	1k	10k	30k
10 ~ 82	0.25	0.35	0.50	0.65	0.90	1.00
100 ~ 330	0.30	0.40	0.55	0.70	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	50	100	500	1,000	5,000	
160	22	221.1	0.15	700@100kHz	8000	10	20	5.0	0.6	P13617-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2C220
	33	326.8	0.15	810@100kHz	8000	10	20	5.0	0.6	P13618-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2C330
	47	461.2	0.15	1065@100kHz	8000	10	20	5.0	0.6	P13619-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2C470
	68	662.8	0.15	1350@100kHz	10000	12.5	20	5.0	0.6	P13620-ND	1.03	32.63	56.20	217.53	374.64	332.34/M	EEU-EE2C680
	82	797.2	0.15	1480@100kHz	10000	12.5	25	5.0	0.6	P13621-ND	1.16	39.78	68.85	260.10	459.00	413.10/M	EEU-EE2C820
	100	970.0	0.15	1660@100kHz	10000	12.5	25	5.0	0.6	P13622-ND	1.16	39.78	68.85	260.10	459.00	413.10/M	EEU-EE2C101
	100	970.0	0.15	1700@100kHz	10000	16	20	7.5	0.8	P13623-ND	1.49	50.99	88.25	333.37	588.30	529.47/M	EEU-EE2C101S
	150	1450.0	0.15	1890@100kHz	10000	16	25	7.5	0.8	P13624-ND	1.73	59.15	102.38	386.75	682.50	614.25/M	EEU-EE2C151
	150	1450.0	0.15	1820@100kHz	10000	18	20	7.5	0.8	P13625-ND	1.85	63.22	109.42	413.36	729.45	656.51/M	EEU-EE2C151S
	220	2122.0	0.15	2280@100kHz	10000	16	31.5	7.5	0.8	P13626-ND	1.87	65.88	115.29	439.20	768.60	713.70/M	EEU-EE2C221
	220	2122.0	0.15	1950@100kHz	10000	18	25	7.5	0.8	P13627-ND	1.95	68.71	120.25	458.08	801.64	744.38/M	EEU-EE2C221S
	330	3178.0	0.15	2600@100kHz	10000	18	31.5	7.5	0.8	P13628-ND	3.25	114.84	200.97	765.60	1339.80	1244.10/M	EEU-EE2C331
200	22	274.0	0.15	850@100kHz	8000	10	20	5.0	0.6	P13629-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2D220
	33	406.0	0.15	920@100kHz	8000	10	20	5.0	0.6	P13630-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2D330
	47	574.0	0.15	1100@100kHz	10000	12.5	20	5.0	0.6	P13631-ND	1.03	32.63	56.20	217.53	374.64	332.34/M	EEU-EE2D470
	68	826.0	0.15	1330@100kHz	10000	12.5	25	5.0	0.6	P13632-ND	1.16	39.78	68.85	260.10	459.00	413.10/M	EEU-EE2D680
	68	826.0	0.15	1330@100kHz	10000	16	20	7.5	0.8	P13633-ND	1.49	50.99	88.25	333.37	588.30	529.47/M	EEU-EE2D680S
	82	994.0	0.15	1460@100kHz	10000	16	20	7.5	0.8	P13634-ND	1.49	50.99	88.25	333.37	588.30	529.47/M	EEU-EE2D820S
	100	1210.0	0.15	1730@100kHz	10000	16	25	7.5	0.8	P13635-ND	1.73	59.15	102.38	386.75	682.50	614.25/M	EEU-EE2D101
	100	1210.0	0.15	1665@100kHz	10000	18	20	7.5	0.8	P13636-ND	1.85	63.22	109.42	413.36	729.45	656.51/M	EEU-EE2D101S
	150	1810.0	0.15	1860@100kHz	10000	16	25	7.5	0.8	P13637-ND	1.73	59.15	102.38	386.75	682.50	614.25/M	EEU-EE2D151
	220	2650.0	0.15	2600@100kHz	10000	18	31.5	7.5	0.8	P13638-ND	3.25	114.84	200.97	765.60	1339.80	1244.10/M	EEU-EE2D221
	330	3970.0	0.15	3120@100kHz	10000	18	40	7.5	0.8	P13639-ND	4.28	148.40	269.20	1000.86	1863.68	1760.14/M	EEU-EE2D331
250	22	340.0	0.15	785@100kHz	8000	10	20	5.0	0.6	P13640-ND	.75	21.97	37.66	149.06	251.04	219.66/M	EEU-EE2E220
	33	505.0	0.15	995@100kHz	10000	12.5	20	5.0	0.6	P13641-ND	1.03	32.63	56.20	217.53	374.64	332.34/M	EEU-EE2E330
	47	715.0	0.15	1290@100kHz	10000	12.5	25	5.0	0.6	P13642-ND	1.16	39.78	68.85	260.10	459.00	413.10/M	EEU-EE2E470
	47	715.0	0.15	1400@100kHz	10000	16	20	7.5	0.8	P13643-ND	1.49	50.99	88.25	333.37	588.30	529.47/M	EEU-EE2E470S
	68	1030.0	0.15	1400@100kHz	10000	16	20	7.5	0.8	P13644-ND	1.49	50.99	88.25	333.37	588.30	529.47/M	EEU-EE2E680S
	82	1240.0	0.15	1680@100kHz	10000	16	25	7.5	0.8	P13645-ND	1.73	59.15	102.38	386.75	682.50	614.25/M	EEU-EE2E820
	82	1240.0	0.15	1680@100kHz	10000	18	20	7.5	0.8	P13646-ND	1.85	63.22	109.42	413.36	729.45	656.51/M	EEU-EE2E820S
	100	1510.0	0.15	2100@100kHz	10000	16	31.5	7.5	0.8	P13647-ND	1.87	65.88	115.29	439.20	768.60	713.70/M	EEU-EE2E101
	100	1510.0	0.15	2100@100kHz	10000	18	25	7.5	0.8	P13648-ND	1.97	69.66	121.91	464.40	812.70	754.65/M	EEU-EE2E101S
	150	2260.0	0.15	2520@100kHz	10000	18	31.5	7.5	0.8	P13649-ND	3.25	114.84	200.97	765.60	1339.80	1244.10/M	EEU-EE2E151
	220	3310.0	0.15	2940@100kHz	10000	18	40	7.5	0.8	P13650-ND	4.28	148.40	269.20	1000.86	1863.68	1760.14/M	EEU-EE2E221
350	15	325.0	0.20	480@100kHz	8000	10	20	5.0	0.6	P13651-ND	.77	24.35	41.94	162.36	279.62	248.05/M	EEU-EE2V150
	22	472.0	0.20	660@100kHz	10000	12.5	20	5.0	0.6	P13652-ND	1.04	35.70	61.79	233.41	411.90	370.71/M	EEU-EE2V220
	33	703.0	0.20	790@100kHz	10000	12.5	25	5.0	0.6	P13653-ND	1.31	44.88	77.67	293.42	517.80	466.02/M	EEU-EE2V330
	33	703.0	0.20	900@100kHz	10000	16	20	7.5	0.8	P13654-ND	1.67	57.10	98.82	373.32	658.80	592.92/M	EEU-EE2V330S
	47	997.0	0.20	1070@100kHz	10000	16	25	7.5	0.8	P13655-ND	1.71	60.24	105.42	401.60	702.80	652.60/M	EEU-EE2V470
	47	997.0	0.20	1070@100kHz	10000	18	20	7.5	0.8	P13656-ND	1.81	64.01	112.01	426.72	746.76	693.42/M	EEU-EE2V470S
	68	1438.0	0.20	1530@100kHz	10000	16	31.5	7.5	0.8	P13657-ND	2.24	79.07	138.37	527.12	922.46	856.57/M	EEU-EE2V680
	68	1438.0	0.20	1330@100kHz	10000	18	25	7.5	0.8	P13658-ND	2.35	82.84	144.96	552.24	966.42	897.39/M	EEU-EE2V680S
	82	1732.0	0.20	1530@100kHz	10000	18	25	7.5	0.8	P13659-ND	2.35	82.84	144.96	552.24	966.42	897.39/M	EEU-EE2V820S
	100	2110.0	0.20	1600@100kHz	10000	18	31.5	7.5	0.8	P13660-ND	3.26	112.99	204.96	762.05	1418.99	1340.16/M	EEU-EE2V101
400	10	250.0	0.24	430@100kHz	8000	10	20	5.0	0.6	P13661-ND	.77	24.35	41.94	162.36	279.62	248.05/M	EEU-EE2G100
	15	370.0	0.24	590@100kHz	10000	12.5	20	5.0	0.6	P13662-ND	1.04	35.70	61.79	233.41	411.90	370.71/M	EEU-EE2G150
	22	538.0	0.24	760@100kHz	10000	12.5	25	5.0	0.6	P13663-ND	1.31	44.88	77.67	293.42	517.80	466.02/M	EEU-EE2G220
	22	538.0	0.24	860@100kHz	10000	16	20	7.5	0.8	P13664-ND	1.67	57.10	98.82	373.32	658.80	592.92/M	EEU-EE2G220S

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	50	100	500	1,000	5,000	Panasonic Part No.
400	33	802.0	0.24	1020@100kHz	10000	16	20	7.5	0.8	P13665-ND	1.67	57.10	98.82	373.32	658.80	592.92/M	EEU-EE2G330S
	47	1138.0	0.24	1180@100kHz	10000	16	25	7.5	0.8	P13666-ND	1.71	60.24	105.42	401.60	702.80	652.60/M	EEU-EE2G470
	47	1138.0	0.24	1180@100kHz	10000	18	20	7.5	0.8	P13667-ND	1.87	65.88	115.29	439.20	768.60	713.70/M	EEU-EE2G470S
	68	1642.0	0.24	1470@100kHz	10000	18	25	7.5	0.8	P13668-ND	2.45	86.59	151.54	577.28	1010.24	938.08/M	EEU-EE2G680
	82	1978.0	0.24	1645@100kHz	10000	18	31.5	7.5	0.8	P13669-ND	3.26	112.99	204.96	762.05	1418.99	1340.16/M	EEU-EE2G820
	100	2410.0	0.24	2060@100kHz	10000	18	40	7.5	0.8	P13670-ND	4.28	148.40	269.20	1000.86	1863.68	1760.14/M	EEU-EE2G101
450	10	280.0	0.24	330@100kHz	8000	10	20	5.0	0.6	P13671-ND	.77	24.35	41.94	162.36	279.62	248.05/M	EEU-EE2W100U
	10	280.0	0.24	490@100kHz	10000	12.5	20	5.0	0.6	P13672-ND	1.04	35.70	61.79	233.41	411.90	370.71/M	EEU-EE2W100
	15	415.0	0.24	780@100kHz	10000	12.5	25	5.0	0.6	P13673-ND	1.31	44.88	77.67	293.42	517.80	466.02/M	EEU-EE2W150
	22	604.0	0.24	945@100kHz	10000	16	20	7.5	0.8	P13674-ND	1.67	57.10	98.82	373.32	658.80	592.92/M	EEU-EE2W220S
	33	901.0	0.24	1000@100kHz	10000	16	25	7.5	0.8	P13675-ND	1.81	64.01	112.01	426.72	746.76	693.42/M	EEU-EE2W330
	33	901.0	0.24	1000@100kHz	10000	18	20	7.5	0.8	P13676-ND	1.87	65.88	115.29	439.20	768.60	713.70/M	EEU-EE2W330S
	47	1279.0	0.24	1200@100kHz	10000	16	31.5	7.5	0.8	P13677-ND	2.29	80.95	141.67	539.68	944.44	876.98/M	EEU-EE2W470
	47	1279.0	0.24	1200@100kHz	10000	18	25	7.5	0.8	P13678-ND	2.45	86.59	151.54	577.28	1010.24	938.08/M	EEU-EE2W470S
	56	1522.0	0.24	1380@100kHz	10000	18	31.5	7.5	0.8	P13679-ND	3.26	112.99	204.96	762.05	1418.99	1340.16/M	EEU-EE2W560
	68	1846.0	0.24	1800@100kHz	10000	18	40	7.5	0.8	P13680-ND	4.28	148.40	269.20	1000.86	1863.68	1760.14/M	EEU-EE2W680

KS Series

FEATURES:

- Low profile 5mm height for Ø3 ~ Ø8 mm

SPECIFICATIONS:

• **Operating Temperature Range:** -40°C ~ 85°C • **Rated Working Voltage Range:** 4 ~ 50VDC • **Nominal Capacitance Range:** 0.1 ~ 330µF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C • **Endurance:** Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 85°C • **Applied Voltage:** Rated DC working voltage • **Post Test Requirements at 20°C** — **Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value • **Shelf Life:** Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 85°C • **Applied voltage:** (None) • **Post Test Requirements at 20°C** — **Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value **Panasonic KS Cross Reference:** Nippon Chemi-Con: SRE, Nichicon: MA, Elna: RC3, Rubycon: MS5, Marcon: LSM **Recommended Applications:** AV (TV, Audio, Video), Office, Home Appliance

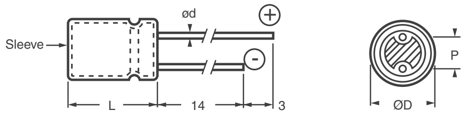

Body Diameter D	3	4	5	6.3	8
Lead Diameter d	0.4	0.45	0.45	0.45	0.45
Lead Space P	1.0	1.5	2.0	2.5	2.5

Characteristics at Low Temperature Impedance ratio maximum at 120Hz

Working Voltage (V)	4	6.3	10	16	25	35	50
-25°C/25°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

Tan δ: (120Hz, 20°C)

Working Voltage (V)	4	6.3	10	16	25	35	50
tan δ Maximum	0.35	0.24	0.20	0.16	0.14	0.12	0.10

WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2 min.)	tan δ (120Hz/+20°C)	Ripple Current	Dimensions (mm) ØD	L	P	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
4	22	3.0	0.35	19	3	5	1.0	P950-ND	.42	8.64	14.59	ECE-A0GKK220
	33	3.0	0.35	26	4	5	1.5	P951-ND	.26	5.27	8.89	ECE-A0GKS330
	47	3.0	0.35	34	4	5	1.5	P952-ND	.26	5.27	8.89	ECE-A0GKS470
	100	4.0	0.35	61	5	5	2.0	P953-ND	.23	5.18	8.81	ECE-A0GKS101
	220	8.8	0.35	82	6.3	5	2.5	P954-ND	.27	6.28	10.68	ECE-A0GKS221
6.3	22	3.0	0.24	29	4	5	1.5	P955-ND	.26	5.27	8.89	ECE-A0JKS220
	33	3.0	0.24	38	5	5	2.0	P956-ND	.23	5.18	8.81	ECE-A0JKS330
	47	3.0	0.24	46	5	5	2.0	P957-ND	.23	5.18	8.81	ECE-A0JKS470
	100	6.3	0.24	71	6.3	5	2.5	P958-ND	.27	6.28	10.68	ECE-A0JKS101
	330	20.7	0.24	130	8	5	2.5	P959-ND	.41	9.85	16.89	ECE-A0JKS331
10	22	3.0	0.20	35	5	5	2.0	P960-ND	.23	5.18	8.81	ECE-A1AKS220
	33	3.3	0.20	43	5	5	2.0	P961-ND	.23	5.18	8.81	ECE-A1AKS330
	47	4.7	0.20	65	6.3	5	2.5	P962-ND	.27	6.28	10.68	ECE-A1AKS470
	100	10.0	0.20	80	6.3	5	2.5	P963-ND	.27	6.28	10.68	ECE-A1AKS101
	220	22.0	0.20	120	8	5	2.5	P964-ND	.41	9.85	16.89	ECE-A1AKS221
16	10	3.0	0.16	20	3	5	1.0	P965-ND	.42	8.64	14.59	ECE-A1CKK100
	10	3.0	0.16	28	4	5	1.5	P966-ND	.26	5.27	8.89	ECE-A1CKS100
	22	3.5	0.16	39	5	5	2.0	P967-ND	.23	5.18	8.81	ECE-A1CKS220
	33	5.2	0.16	60	6.3	5	2.5	P968-ND	.27	6.28	10.68	ECE-A1CKS330
	47	7.5	0.16	70	6.3	5	2.5	P969-ND	.27	6.28	10.68	ECE-A1CKS470
	100	16.0	0.16	91	8	5	2.5	P970-ND	.41	9.85	16.89	ECE-A1CKS101
25	2.2	3.0	0.14	8	3	5	1.0	P971-ND	.42	8.64	14.59	ECE-A1EKK2R2
	3.3	3.0	0.14	10	3	5	1.0	P972-ND	.42	8.64	14.59	ECE-A1EKK3R3
	4.7	3.0	0.14	12	3	5	1.0	P973-ND	.42	8.64	14.59	ECE-A1EKK4R7
	4.7	3.0	0.14	22	4	5	1.5	P974-ND	.26	5.27	8.89	ECE-A1EKS4R7
	10	3.0	0.14	28	5	5	2.0	P975-ND	.23	5.18	8.81	ECE-A1EKS100
	22	5.5	0.14	55	6.3	5	2.5	P976-ND	.27	6.28	10.68	ECE-A1EKS220
	33	8.2	0.14	65	6.3	5	2.5	P977-ND	.27	6.28	10.68	ECE-A1EKS330
35	3.3	3.0	0.12	16	4	5	1.5	P978-ND	.26	5.27	8.89	ECE-A1VKS3R3
	4.7	3.0	0.12	22	4	5	1.5	P979-ND	.26	5.27	8.89	ECE-A1VKS4R7
	10	3.5	0.12	30	5	5	2.0	P980-ND	.23	5.18	8.81	ECE-A1VKS100
	22	7.7	0.12	60	6.3	5	2.5	P981-ND	.27	6.28	10.68	ECE-A1VKS220
	33	11.6	0.12	65	8	5	2.5	P982-ND	.41	9.85	16.89	ECE-A1VKS330
	47	16.4	0.12	85	8	5	2.5	P983-ND	.41	9.85	16.89	ECE-A1VKS470
50	0.1	3.0	0.10	1	4	5	1.5	P984-ND	.26	5.27	8.89	ECE-A1HKS0R1
	0.1	3.0	0.10	1	3	5	1.0	P985-ND	.42	8.64	14.59	ECE-A1HKK0R1
	0.22	3.0	0.10	2	4	5	1.5	P986-ND	.26	5.27	8.89	ECE-A1HKSR22
	0.22	3.0	0.10	2	3	5	1.0	P987-ND	.42	8.64	14.59	ECE-A1HKKR22
	0.33	3.0	0.10	3	4	5	1.5	P988-ND	.26	5.27	8.89	ECE-A1HKSR33
	0.33	3.0	0.10	3	3	5	1.0	P989-ND	.42	8.64	14.59	ECE-A1HKKR33
	0.47	3.0	0.10	5	4	5	1.5	P990-ND	.26	5.27	8.89	ECE-A1HKSR47
	0.47	3.0	0.10	5	3	5	1.0	P991-ND	.42	8.64	14.59	ECE-A1HKKR47
	1.0	3.0	0.10	8	3	5	1.0	P992-ND	.42	8.64	14.59	ECE-A1HKK010
	1.0	3.0	0.10	10	4	5	1.5	P993-ND	.26	5.27	8.89	ECE-A1HKS010
	2.2	3.0	0.10	16	4	5	1.5	P994-ND	.26	5.27	8.89	ECE-A1HKS2R2
	3.3	3.0	0.10	16	4	5	1.5	P995-ND	.26	5.27	8.89	ECE-A1HKS3R3
	4.7	3.0	0.10	23	5	5	2.0	P996-ND	.23	5.18	8.81	ECE-A1HKS4R7
	10	5.0	0.10	35	6.3	5	2.5	P997-ND	.27	6.28	10.68	ECE-A1HKS100
	22	11.0	0.10	60	8	5	2.5	P998-ND	.41	9.85	16.89	ECE-A1HKS220

Panasonic®

KA-Series Miniature Aluminum Electrolytic Capacitors

Rating WV		Dimensions (mm)			Digi-Key	Pricing						Panasonic
DC	µF	D	L	P	Part No.	1	50	100	500	1,000	5,000	Part No.
6.3	22	4.0	7.0	1.5	P800-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A0JKA220
	33	4.0	7.0	1.5	P801-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A0JKA330
	47	4.0	7.0	1.5	P802-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A0JKA470
	100	5.0	7.0	2.0	P803-ND†	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A0JKA101
	220	6.3	7.0	2.5	P829-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A0JKA221
	330	8.0	7.0	3.5	P830-ND	.37	9.05	15.51	58.16	98.23	87.89/M	ECE-A0JKA331
10	22	4.0	7.0	1.5	P804-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1AKA220
	33	4.0	7.0	1.5	P805-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1AKA330
	47	5.0	7.0	2.0	P806-ND	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1AKA470
	100	6.3	7.0	2.5	P831-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1AKA101
	220	8.0	7.0	3.5	P832-ND	.37	9.05	15.51	58.16	98.23	87.89/M	ECE-A1AKA221
16	10	4.0	7.0	1.5	P807-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1CKA100
	22	4.0	7.0	1.5	P808-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1CKA220
	33	5.0	7.0	2.0	P809-ND†	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1CKA330
	47	5.0	7.0	2.0	P810-ND†	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1CKA470
	100	6.3	7.0	2.5	P833-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1CKA101
25	4.7	4.0	7.0	1.5	P812-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1EKA4R7
	10	4.0	7.0	1.5	P813-ND	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1EKA100
	22	5.0	7.0	2.0	P814-ND	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1EKA220
	33	6.3	7.0	2.5	P815-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1EKA330
	47	6.3	7.0	2.5	P834-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1EKA470
35	4.7	4.0	7.0	1.5	P817-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1VKA4R7
	10	5.0	7.0	2.0	P818-ND†	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1VKA100
	22	6.3	7.0	2.5	P819-ND†	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1VKA220
	33	6.3	7.0	2.5	P835-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1VKA330
	47	8.0	7.0	3.5	P836-ND	.37	9.05	15.51	58.16	98.23	87.89/M	ECE-A1VKA470
50	0.1	4.0	7.0	1.5	P820-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKA0R1
	0.22	4.0	7.0	1.5	P821-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKAR22
	0.33	4.0	7.0	1.5	P822-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKAR33
	0.47	4.0	7.0	1.5	P823-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKAR47
	1.0	4.0	7.0	1.5	P824-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKA010
	2.2	4.0	7.0	1.5	P825-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKA2R2
	3.3	4.0	7.0	1.5	P826-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKA3R3
	4.7	4.0	7.0	1.5	P827-ND†	.23	4.75	8.02	27.43	48.53	42.20/M	ECE-A1HKA4R7
	10	5.0	7.0	2.0	P828-ND†	.26	5.27	8.89	30.42	53.82	46.80/M	ECE-A1HKA100
	22	6.3	7.0	2.5	P837-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1HKA220
	33	8.0	7.0	3.5	P838-ND	.37	9.05	15.51	58.16	98.23	87.89/M	ECE-A1HKA330

† **P835-KIT-ND** ***Digi-Key® KA-Series Capacitors Kit*** 10 each of parts indicated. (160 total pieces) Notebook style storage case. **$29.95**

The KA-Series is a tantalum substitute for many applications.

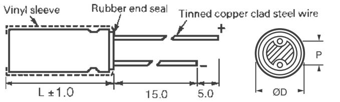

- **Operating Temperature Range:** –40°C ~ 85°C
- **Rated DC Voltage Range:** 6.3 ~ 63VDC
- **Rated Capacitance Range:** 1.0 ~ 100µF
- **Capacitance Tolerance:** ±20%
- **tan δ:** Maximum at 120Hz

W.V.	6.3	10	16	25	35	50
tan	0.24	0.2	0.16	0.14	0.12	0.10

- **DC Leakage Current, Maximum:** After 5 minutes application of the DC working voltage, I=0.01 C V or 3µA, whichever is greater.
- **Load Life:** 1,000 hours application of the rated DC working voltage at 85°C, the capacitor shall meet the following limits:

Capacitance Change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC Leakage Current	Less than the initial specified value

- **Stability at Low and High Temperature:** Impedance ratio at 120Hz –25/20°C, –40/20°C.

W.V.	6.3	10	16	25	35	50
–25/20°C	4	3	2	2	2	2
–40/20°C	8	6	4	4	3	3

- **Shelf Life:** After 1,000 hours storage without load at 85°C, the capacitor shall meet the above "Load life."
- **Others shall be in accordance with JIS-C-5141 (1976).**

PANASONIC K CROSS REFERENCES:

Elna: RC2, **IC:** RSS, **Marcon:** SSM, **Nichicon:** SR/SA, **Rubycon:** MS7, **UCC:** SRG/SRA

KG-Series Miniature Aluminum Electrolytic Capacitors 105°C

WV DC	Cap. µF	Size Code	Digi-Key Part No.	Pricing 1	50	100	500	1,000	5,000	Panasonic Part No.
6.3	22	A	P900-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A0JKG220
	33	B	P901-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A0JKG330
	47	B	P902-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A0JKG470
	68	C	P903-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A0JKG680
	100	C	P904-ND‡	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A0JKG101
	220	D	P941-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A0JKG221
10	22	A	P905-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1AKG220
	33	B	P906-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1AKG330
	47	C	P907-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1AKG470
	68	C	P908-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1AKG680
	100	C	P942-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1AKG101
16	6.8	A	P909-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1CKG6R8
	10	A	P910-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1CKG100
	15	A	P911-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1CKG150
	22	B	P912-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1CKG220
	33	C	P913-ND‡	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1CKG330
	47	C	P914-ND‡	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1CKG470
	68	D	P943-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1CKG680
	100	D	P944-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1CKG101
25	6.8	A	P915-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1EKG6R8
	10	A	P916-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1EKG100
	15	B	P917-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1EKG150
	22	B	P918-ND‡	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1EKG220
	33	C	P919-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1EKG330
	47	D	P945-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1EKG470
	68	D	P946-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1EKG680
35	4.7	A	P920-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1VKG4R7
	6.8	A	P921-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1VKG6R8
	10	B	P922-ND‡	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1VKG100
	15	C	P923-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1VKG150
	22	C	P924-ND‡	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1VKG220
	33	D	P947-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1VKG330
	47	D	P948-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1VKG470
50	0.1	A	P925-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG0R1
	0.15	A	P926-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKGR15
	0.22	A	P927-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKGR22
	0.33	A	P928-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKGR33
	0.47	A	P929-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKGR47
	0.68	A	P930-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKGR68
	1	A	P931-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG010
	1.5	A	P932-ND	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG1R5
	2.2	A	P933-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG2R2
	3.3	A	P934-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG3R3
	4.7	A	P935-ND‡	.22	5.00	8.50	30.00	52.50	46.25/M	ECE-A1HKG4R7
	6.8	B	P936-ND	.25	5.62	9.55	33.72	59.01	51.99/M	ECE-A1HKG6R8
	10	C	P937-ND‡	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1HKG100
	15	C	P938-ND	.30	6.88	11.70	41.28	72.24	63.64/M	ECE-A1HKG150
	22	D	P939-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1HKG220
	33	D	P940-ND	.43	10.40	17.82	66.83	112.86	100.98/M	ECE-A1HKG330

‡ **P900-KIT-ND** ***Digi-Key® KG-Series Capacitors Kit*** 10 each of parts indicated. (180 pieces total) Notebook style storage case **$34.95**

The KG-Series is a tantalum substitute for many applications.

Features: • Height is 7mm • Anti-solvent in Freon

Operating Temperature Range: –55°C ~ 105°C

Capacitance Tolerance: ±20% at 120Hz, 20°C

DC Leakage Current: I≦0.01CV or 3[µA] after 2 minutes (whichever is greater)

tan δ (120Hz/120°C):

W.V.	6.3	10	16	25	35	50
tan δ (Maximum)	0.22	0.19	0.16	0.14	0.12	0.10

Low Temperature Impedance Stability at 120Hz:

W.V.	6.3	10	16	25	35	50
Z(-25°C)/Z(20°C)	3	2	2	2	2	2
Z(-40°C)/Z(20°C)	6	5	3	3	3	3
Z(-55°C)/Z(20°C)	8	6	4	4	4	4

Load Life:
After 1,000 hours application of DC rated working voltage at 105°C, the capacitor shall meet the following limits.

Capacitance change: < ±20% of the initial measured value.

tan δ:
< 200% of the initial specified value.

DC leakage current: < the initial specified value.

Anti-solvent:
Can withstand circuit-board cleaning within 5 minutes in Freon TE, TES, or TP-35 at 40°C by dipping, steaming, or ultrasonic.

Size Code	Dimensions: (mm) Body Diameter D	Lead Space P
A	4	1.5
B	5	2
C	6.3	2.5
D	8	3.5

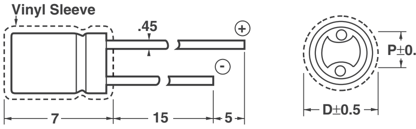

CDE CORNELL DUBILIER MLS Series — Flatpack, Ultra-Long Life, Aluminum Capacitors

The Type MLS extends the super performance of the MLP from a maximum operating temperature of 85°C ~ 125°C. While the MLP is inherently capable of operation at 125°C, its flat aluminum case can't withstand the higher temperature without inflating from internal pressure. The MLS incorporates a rugged, stainless steel case which assures flatness to beyond 125°C. The MLS is perfect for hi-rel military systems and applications operating above 85°C

Features: • Near hermetic welded seal • Stainless steel case • 100 yrs. expected operating life • Two inch case size • Mounting Style: Two leads/no tabs
Specifications: • Operating Temperature: -55°C ~ 125°C up to 250VDC • Load Life: 2,000 hrs. @ 125°C • Leakage Current: 0.002CV µA @ 25°C and 5 min. • Terminals: 18AWG copper wire with 60/40 tin-lead electroplate

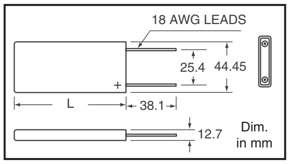

Voltage	Capacitance (µf)	ESR Maximum (mΩ) @ 25°C		Ripple Current (A) @ 85°C		Dim. L (mm)	Digi-Key Part No.	Price Each				Cornell Dubilier Part No.
		120Hz	20kHz	120Hz	20kHz			1	10	100	1,000	
40	4,400	97	70	10.3	12.1	38.1	338-1377-ND	101.62	86.38	71.14	63.52	MLS442M040EK0C
60	1,500	106	77	9.8	11.5	38.1	338-1379-ND	101.62	86.38	71.14	63.52	MLS152M060EK0C
75	1,100	112	78	9.6	11.5	38.1	338-1381-ND	101.62	86.38	71.14	63.52	MLS112M075EK0C
200	820	172	103	7.7	10.0	76.2	338-1384-ND	127.16	108.09	89.02	79.48	MLS821M200EB0C

MLP Series — Flatpack, Ultra-Long Life, Aluminum Capacitors

The MLPs high-energy storage and box shape makes it perfect for voltage holdup or filtering in military SEM-E modules, telecom circuit packs and computer cards. The MLP delivers up to 20 joules of energy storage in a 1/2" height with a 50 year life at 45°C. May readily heatsink it to double the ripple-current capability. Ratings up to 250V can operate at 75% of rated voltage up to 125°C if clamped or potted to prevent expanding beyond 1/2".
Features: • Low profile replacement for snap-ins • Double the ripple capability with a heatsink • Nearly hermetic welded seal assures 50-year life • Withstands more than 80,000 feet altitude
Specifications: • Operating Temperature: -55°C ~ 85°C up to 250VDC; -40°C ~ 85°C 300VDC and up • Leakage Current: ≤0.002CVµA @ 25°C and 5 minutes • Terminals: 18AWG copper wire with 60/40 tin-lead electroplate

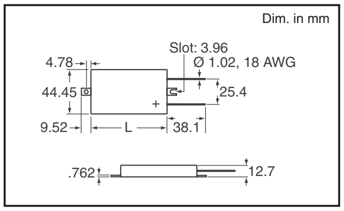

Voltage	Capacitance (µf)	ESR Maximum (mΩ) @25°C		Ripple Current (A) @ 85°C		Dim. L (mm)	Digi-Key Part No.	Price Each				Cornell Dubilier Part No.
		120Hz	20kHz	120Hz	20kHz			1	10	100	1,000	
16	38,000	31	27	9.0	9.6	76.2	338-1210-ND	61.14	51.97	42.80	38.22	MLP383M016EB0A
25	20,000	34	27	8.6	9.6	76.2	338-1201-ND	61.14	51.97	42.80	38.22	MLP203M025EB0A
35	5,600	90	70	3.4	4.4	38.1	338-1217-ND	48.86	41.54	34.21	30.54	MLP562M035EK0A
35	14,000	35	27	8.4	9.6	76.2	338-1197-ND	61.14	51.97	42.80	38.22	MLP143M035EB0A
50	4,400	97	70	3.7	4.4	38.1	338-1213-ND	48.86	41.54	34.21	30.54	MLP442M050EKOA
50	4,400	97	70	3.7	4.4	38.1	338-1214-ND§	48.86	41.54	34.21	30.54	MLP442M050EK1A
50	11,000	36	27	8.3	9.6	76.2	338-1192-ND	61.14	51.97	42.80	38.22	MLP113M050EB0A
50	11,000	36	27	8.3	9.6	76.2	338-1193-ND§	61.14	51.97	42.80	38.22	MLP113M050EB1A
63	2,200	101	76	3.7	4.2	38.1	338-1388-ND	48.86	41.54	34.21	30.54	MLP222M063EK0A
63	5,600	36	29	8.3	9.3	76.2	338-1385-ND	61.14	51.97	42.80	38.22	MLP562M063EB0A
80	1,500	106	77	3.6	4.2	38.1	338-1199-ND	48.86	41.54	34.21	30.54	MLP152M080EK0A
80	3,300	44	31	7.5	9.0	76.2	338-1208-ND	61.14	51.97	42.80	38.22	MLP332M080EB0A
100	1,100	112	78	3.5	4.2	38.1	338-1191-ND	48.86	41.54	34.21	30.54	MLP112M100EK0A
200	400	388	253	1.9	2.3	38.1	338-1211-ND	48.86	41.54	34.21	30.54	MLP401M200EK0A
200	1,000	158	100	3.8	5.0	76.2	338-1189-ND	61.14	51.97	42.80	38.22	MLP102M200EB0A
250	330	426	258	1.8	2.3	38.1	338-1205-ND	48.86	41.54	34.21	30.54	MLP331M250EK0A
250	820	172	103	3.8	4.9	76.2	338-1219-ND	61.14	51.97	42.80	38.22	MLP821M250EB0A
250	820	172	103	3.8	4.9	76.2	338-1404-ND	61.14	51.97	42.80	38.22	MLP821M250EB1C
300	220	597	393	1.5	1.9	38.1	338-1202-ND	54.72	46.52	38.31	34.20	MLP221M300EK0A
300	560	240	157	3.2	4.0	76.2	338-1216-ND	68.46	58.20	47.93	42.79	MLP561M300EB0A
400	330	530	390	2.1	2.5	76.2	338-1206-ND	68.46	58.20	47.93	42.79	MLP331M400EB0A
420	330	530	390	2.1	2.5	76.2	338-1207-ND	68.46	58.20	47.93	42.79	MLP331M420EB0A
450	110	1,456	1,190	0.96	1.1	38.1	338-1190-ND‡	54.72	46.52	38.31	34.20	MLP111M450EK0C
450	280	585	480	2.0	2.3	76.2	338-1204-ND	68.46	58.20	47.93	42.79	MLP281M450EB0A

§ Polyester Insulation ‡ Two leads/no tabs, mounting style

NESSCAP TURBO-POWER Ultracapacitors and Pseudocapacitors

RoHS COMPLIANT

The NessCap **Ultracapacitor (ESHSR Series)** is an Electric Double Layer Capacitor (EDLC) that uses an activated carbon powder and coating process to prepare electrodes. The NessCap ultracapacitor's high energy density is made possible through the use of a proprietary binder formulation and specially developed electrode-making process.

The NessCap **Pseudocapacitor (PSHLR Series)** differs from the EDLC in that it uses a metal oxide rather than an activated carbon for electrode material. With this advantage, pseudocapacitor cell needs to be only 60% in volume as compared to an EDLC of the same capacitance. Conversely, it also means the pseudocapacitor holds 80% more energy than the equivalent-size EDLC.

Fig. 1

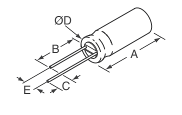

Fig. 2

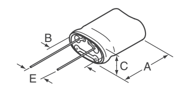

Insulator recommended for certain applications

Fig.	Working Voltage (DC)	Capacitance (F)	Nominal Internal Series Resistance @1KHz (mΩ)	Dimensions - (mm)					Digi-Key Part No.	Price Each			NessCap Part No.
				A	B	C	D	E		1	10	100	
				ESHSR and EMHSR Series — Ultracapacitors									
1	2.7	3	75	20	15	4	8	3.5	589-1000-ND	2.28	1.95	1.47	ESHSR-0003C0-002R7
	2.7	5	60	20	15	4	10	5	589-1001-ND	2.73	2.34	1.76	ESHSR-0005C0-002R7
	2.7	10	35	30	15	4	10	5	589-1002-ND	3.54	3.25	2.66	ESHSR-0010C0-002R7
2	5.4	1.5	150	23	17	9	—	8.8	589-1007-ND	5.22	4.79	3.92	EMHSR-0001C5-005R0
	5.0	2.5	100	23	21	10.5	—	10.6	589-1008-ND	6.06	5.56	4.55	EMHSR-0002C5-005R0

TAIYO YUDEN High Capacitance PAS Capacitors

Digi-Reel® RoHS COMPLIANT

PAS *(Polyacenic Semiconductor)* which was originally developed by Shoei Electronics *(now a Taiyo Yuden owned company)*, is a kind of conductive polymer, synthesized through pyrolytic treatment of phenolic resin. When PAS is employed for both positive and negative electrodes, it shows extremely high performance. The capacitors are 1/2 ~ 1/3 smaller than conventional electric double layer capacitors and its low internal resistance enables quick charging and large current discharging. **Features:** • *High Capacitance:* PAS can store a large number of ions into its amorphous structure (doping), which gives them much more capacitance than conventional electric double layer capacitors • *Quick Charge & Discharge:* These capacitors can be charged and discharged quickly due to low internal resistance • *High Reliability:* It's possible to charge/discharge the capacitors more than 100,000 times with less deterioration, compared to a secondary battery

Fig.	WV DC	Nominal Cap. (F)	Internal Resistance (mΩ)	Diameter (mm)	Dim. (mm)		Digi-Key Part No.	Price Each			T & R Pricing† 4,000	Taiyo Yuden Part No.
					L	d		1	10	100		
				HR and SR Series - Coins								
1	3.3	0.03	—	4.8	—	—	587-2156-1-ND	3.14	2.61	2.30	995.00/M	PAS409HR-VE5R
2	3.3	0.06	—	4.8	—	—	587-2157-1-ND	2.96	2.46	2.17	940.00/M	PAS414HR-VG1
3	3.3	0.06	—	4.8	—	—	587-2158-1-ND	2.96	2.46	2.17	940.00/M	PAS414HR-VA5R
4	3.3	0.06	—	4.8	—	—	587-2159-1-ND	2.96	2.46	2.17	940.00/M	PAS414HR-VE5R
5	3.3	0.03	—	3.8	—	—	587-2155-1-ND	3.31	2.75	2.43	1049.00/M	PAS311HR-VA6R
5	2.6	0.03	—	3.8	—	—	587-2154-1-ND	3.31	2.75	2.43	1049.00/M	PAS311SR-VA6R
				LA Series - Large Capacitance								
6	2.3	4.7	300	10.0	20.0	0.6	587-2017-ND	5.76	5.12	4.10	—	PAS1020LA2R3475
	3.0	4.0	300	10.0	20.0	0.6	587-2021-ND	7.49	6.66	5.33	—	PAS1020LA3R0405
	3.0	9.0	200	12.5	20.0	0.6	587-2022-ND	11.12	10.57	8.34	—	PAS1220LA3R0905
	3.0	20	100	12.5	35.0	0.6	587-2023-ND	15.56	14.79	11.67	—	PAS1235LA3R0206
	3.0	50	70	18.0	40.0	0.8	587-2024-ND	21.11	20.00	16.11	—	PAS1840LA3R0506
				LR Series - Low ESR								
6	2.3	2.0	50	10.0	16.0	0.6	587-2016-ND	8.66	7.70	6.16	—	PAS1016LR2R3205

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

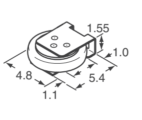

Fig. 2

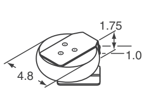

Fig. 3

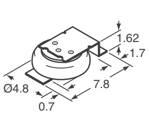

Fig. 4

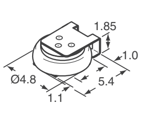

Fig. 5

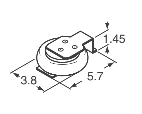

Fig. 6

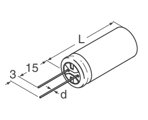

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

PowerStor®

Supercapacitors – A, B, M and P Series

The PowerStor® Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to ultracapacitors and electrochemical double layer capacitors (EDLCs) and gold capacitors with the added benefit of low ESR. Temperature range: -25°C ~ 70°C

A Series: Features: • Ultra low ESR • Low leakage current • Long cycle life • High usable capacity **Applications:** • Pulse power • Hold-up power • DC/DC converters • Hybrid battery packs • Valve and solenoid actuation

B Series: Features: • Higher energy density • Very low ESR • Low leakage currents • Long cycle life **Applications:** • Main power • Hybrid battery packs • Hold-up power • Pulse power

M Series: Features: • High capacitance • Low ESR with high energy density • Long cycle life • Low leakage current • Halogen free • Lead free **Applications:** • Pulse power • Bridge or hold up power

P Series: Features: • Available in an ultra-low ESR version (PA), a low ESR but higher energy density version (PB) or Ultra Low ESR and high energy density (PM) **Applications:** PB Series: • Memory, microprocessor or RTC backup; PA and PM Series: • Pulse power • Hybrid battery packs • Hold-up power • Valve and solenoid actuation

Fig. 1

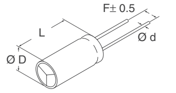

Fig. 2

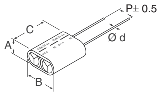

Working Voltage (DC)	Cap. (F)	Nominal Internal Series Res. @ 1kHz(Ω)	Dimensions — mm				Digi-Key Part No.	Price Each			PowerStor Part No.
			D	L	d (±0.02)	F (±0.5)		1	10	100	
Fig. 1 — A Series											
2.5	.47	.150	8.5	21.0	.50	3.5	283-2771-ND	4.29	3.96	2.97	A0820-2R5474-R
	1.0	.090	10.5	22.3	.60	5.0	283-2772-ND	6.44	5.94	4.46	A1020-2R5105-R
	1.5	.060	10.5	31.5	.60	5.0	283-2773-ND	8.58	7.92	5.94	A1030-2R5155-R
	4.7	.025	16.5	38.0	.80	7.5	283-2774-ND	16.09	14.85	11.14	A1635-2R5475-R
Fig. 1 — B Series											
2.5	.22	3.00	5.5	12.0	.50	2.5	283-2775-ND	1.46	1.35	1.02	B0510-2R5224-R
	1.0	.400	8.5	13.5	.50	3.5	283-2776-ND	2.44	2.25	1.69	B0810-2R5105-R
	1.5	.300	10.5	14.4	.60	5.0	283-2779-ND	3.67	3.39	2.55	B1010-2R5155-R
	2.2	.200	8.5	21.0	.50	3.5	283-2777-ND	4.88	4.50	3.38	B0820-2R5225-R
	3.3	.150	10.5	22.3	.60	5.0	283-2780-ND	6.11	5.64	4.23	B1020-2R5335-R
	4.7	.150	8.5	31.0	.50	3.5	283-2778-ND	6.50	6.00	4.50	B0830-2R5475-R
	6.8	.100	10.5	31.5	.60	5.0	283-2781-ND	7.31	6.75	5.07	B1030-2R5685-R
	10	.060	13.5	28.4	.60	5.0	283-2782-ND	8.58	7.92	5.94	B1325-2R5106-R
	22	.040	16.5	38.0	.80	7.5	283-2783-ND	17.06	15.75	11.82	B1635-2R5226-R
	33	.030	18.5	38.0	.80	7.5	283-2784-ND	23.17	21.39	16.05	B1835-2R5336-R
	50	.025	18.5	42.0	.80	7.5	283-2785-ND	29.02	26.79	20.10	B1840-2R5506-R
	100	.020	18.5	60.0	.80	7.5	283-2824-ND	26.10	23.20	16.24	B1860-2R5107-R
NEW! Fig. 1 — M Series NEW!											
2.5	1.0	.150	8.5	13.5	.50	3.5	283-3009-ND	2.93	2.70	2.03	M0810-2R5105-R
	2.0	.075	8.5	21.0	.50	3.5	283-3010-ND	5.85	5.40	4.05	M0820-2R5205-R
	3.0	.035	10.5	22.3	.60	5.0	283-3011-ND	7.31	6.75	5.07	M1020-2R5305-R
	6.0	.025	10.5	31.5	.60	5.0	283-3012-ND	8.78	8.10	6.08	M1030-2R5605-R
	9.0	.020	13.5	28.4	.60	5.0	283-3013-ND	11.21	10.35	7.77	M1325-2R5905-R

Working Voltage (DC)	Cap. (F)	Nominal Internal Series Res. @1kHz(Ω)	Dimensions — mm					Digi-Key Part No.	Price Each			PowerStor Part No.
			A	B	C	d (±0.02)	P (±0.5)		1	10	100	
Fig. 2 — PA Series												
5.0	.22	.300	8.5	16.8	21.5	0.5	11.8	283-2786-ND	7.31	6.75	5.07	PA-5R0V224-R
	.47	.200	10.5	20.8	21.5	0.6	5.3	283-2787-ND	9.26	8.55	6.42	PA-5R0V474-R
Fig. 2 — PB Series												
5.0	.10	10.0	5.5	10.8	12.5	0.5	7.3	283-2788-ND	3.58	3.30	2.48	PB-5R0V104-R
	.47	2.00	8.5	16.8	12.5	0.5	11.8	283-2790-ND	5.36	4.95	3.72	PB-5R0V474-R
	1.0	1.00	8.5	16.8	21.5	0.5	11.8	283-2789-ND	8.29	7.65	5.74	PB-5R0V105-R
Fig. 2 — PM Series												
5.0	.47	0.30	9.0	17.3	14.5	0.5	11.8	283-3014-ND✔	6.18	5.70	4.28	PM-5R0V474-R
	1.0	0.15	9.0	17.3	22.0	0.5	11.8	283-3015-ND✔	9.91	9.15	6.87	PM-5R0V105-R
	1.5	0.07	11.0	21.3	23.0	0.6	5.3	283-2857-ND	10.89	10.05	7.54	PM-5R0V155-R
	1.5	0.07	11.0	21.3	23.0	0.6	5.3	283-3016-ND✔	14.46	13.35	10.02	PM-5R0H155-R
	3.0	0.05	11.0	21.3	32.5	0.6	5.3	283-2858-ND	14.46	13.35	10.02	PM-5R0V305-R
	3.0	0.05	11.0	21.3	32.5	0.6	5.3	283-3017-ND✔	14.46	13.35	10.02	PM-5R0H305-R

✔ NEW!

Supercapacitors – KR Series

Features: • Wide range of high capacitance coin cell style products for use in memory and RTC back-up applications: computers, cameras, camcorders, telephones, printers, car stereos, CCTV, set top box and PDP • Vinyl sleeve protection **Specifications:** • Surge Voltage: 6.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

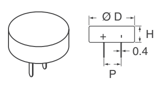

Fig. 2

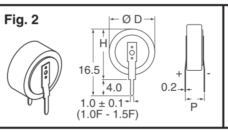

Fig. 3

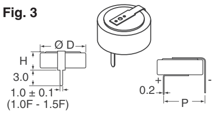

Working Voltage (DC)	Capacitance (F)	Internal Resistance (Ω)	Dimensions — mm			Digi-Key Part No.	Price Each			PowerStor Part No.
			øD	H	P		1	10	100	
Fig. 1 – C Type										
5.5	.10	75	13.5	7.5	5	283-2806-ND	2.11	1.95	1.47	KR-5R5C104-R
	.22	75	13.5	7.5	5	283-2807-ND	2.11	1.95	1.47	KR-5R5C224-R
	.33	50	13.5	7.5	5	283-2808-ND	2.11	1.95	1.47	KR-5R5C334-R
	.47	50	13.5	7.5	5	283-2809-ND	3.74	3.45	2.59	KR-5R5C474-R
	1.0	30	21.5	7.5	5	283-2810-ND	4.23	3.90	2.93	KR-5R5C105-R
	1.5	30	21.5	7.5	5	283-2811-ND	5.53	5.10	3.83	KR-5R5C155-R
Fig. 2 – V Type										
5.5	.10	75	11.5	12.5	5	283-2812-ND	2.11	1.95	1.47	KR-5R5V104-R
	.22	75	11.5	12.5	5	283-2813-ND	2.11	1.95	1.47	KR-5R5V224-R
	.33	50	11.5	12.5	5	283-2814-ND	2.11	1.95	1.47	KR-5R5V334-R
	.47	50	11.5	12.5	5	283-2815-ND	3.74	3.45	2.59	KR-5R5V474-R
	1.0	30	19	19.5	5	283-2816-ND	4.23	3.90	2.93	KR-5R5V105-R
	1.5	30	19	19.5	5	283-2817-ND	5.53	5.10	3.83	KR-5R5V155-R
Fig. 3 – H Type										
5.5	.10	75	11.5	5	10	283-2818-ND	2.11	1.95	1.47	KR-5R5H104-R
	.22	75	11.5	5	10	283-2819-ND	2.11	1.95	1.47	KR-5R5H224-R
	.33	50	11.5	5	10	283-2820-ND	2.11	1.95	1.47	KR-5R5H334-R
	.47	50	11.5	5	10	283-2821-ND	3.74	3.45	2.59	KR-5R5H474-R
	1.0	30	19	6.5	20	283-2822-ND	4.23	3.90	2.93	KR-5R5H105-R
	1.5	30	19	6.5	20	283-2823-ND	5.53	5.10	3.83	KR-5R5H155-R

Surface Mount Supercapacitors — KSL and KSR Series

KSL Series: Features: • Eco-friendly • Compatible with lead free reflow solder (260°C peak) **Specifications:** • Working Voltage: 3.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -25°C ~ 60°C **Applications:** • RTC back-up (MP3, PMP, MD Player) DSC Wireless and Cellular phones, pagers, PDAs. • Solar watch and solar calculators **KSR Series: Features:** • Eco-friendly **Specifications:** • Working Voltage: 3.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -10°C ~ 60°C **Applications:** • RTC back-up (MP3, PMP, MD Player) DSC Wireless and Cellular phones, pagers, PDAs. • Solar watch and solar calculators

Fig. 1

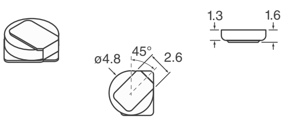

Fig. 2

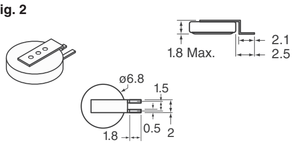

Working Voltage (DC)	Capacitance (F)	Nominal Internal Series Resistance @ 1kHz (Ω)	Digi-Key Part No.	Price Each			PowerStor Part No.
				1	10	100	
Fig. 1 — KSL Series							
3.3	0.07	100	283-2861-1-ND‡	1.69	1.56	1.31	KSL-3R3703S-R
Fig. 2 — KSR Series							
2.8	0.33	200	283-3018-ND ***NEW!***	2.11	1.95	1.47	KSR-2R8334-R
3.3	0.22	200	283-2859-ND	2.11	1.95	1.47	KSR-3R3204-R

‡ Cut Tape

AVX

BestCap® Ultra-Low ESR

High Power Pulse Supercapacitor

Features: AVX's BestCap technology provides excellent high power pulse characteristics based upon the combination of very high capacitance and ultra-low ESR, together with extremely low leakage current. Based on a unique patented aqueous chemistry and an innovative design, this series offers high capacitance, even with short pulse applications such as in GSM, GPRS, Edge, and PCS based systems. While BestCap technology offers more efficient energy savings in battery circuits than conventional supercapacitors, its low ESR results in a high current handling capability, making this an ideal solution for any portable or wireless device requiring high power availability. **Specifications:** • Capacitance Tolerance: -20% ~ 80% • Temperature Range: A Series: -20°C ~ 75°C; B Series: -20°C ~ 70°C

Fig. 1

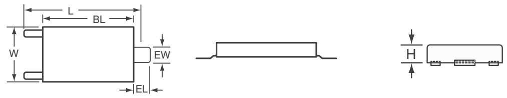

Case Dimensions: Inches (mm)					
Case Size	BL +1.0 (0.040)/-0	W +1.0(0.040)/-0	L ±1.0(0.040)	EL ±0.5 (0.020)	EW ±0.2(0.008)
BZ01	1.102 (28)	0.669 (17)	1.524 (38.7)	0.197 (5.0)	0.177 (4.5)
BZ05	0.787 (20)	0.591 (15)	1.024 (26)	0.138 (3.5)	0.098 (2.5)
BZ25	0.787 (20)	0.591 (15)	1.102 (28)	0.118 (3.0)	0.157 (4.0)

Fig. 2

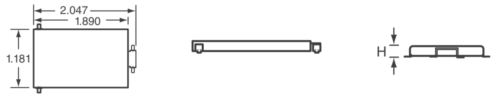

Fig.	Capacitance (F)	Rated Voltage (V)	Typ. ESR @1 kHz (mΩ)	Maximum Leakage Current (μA)	Dim. H (mm)	Digi-Key Part No.	Price Each			AVX Part No.
							1	10	100	
1	.050	3.6	100	5	3.2	478-3521-ND	15.05	12.90	10.75	BZ013B503ZSB
	.100	5.5	80	10	7.2	478-3522-ND	19.25	16.50	13.75	BZ015A104ZSB
	.022	12.0	350	5	7.6	478-3523-ND	26.25	22.50	18.75	BZ01CA223ZSB
	.015	5.5	250	5	2.7	478-3645-ND	15.75	13.50	11.25	BZ055B153ZSB
	.033	5.5	250	5	3.5	478-3646-ND	18.73	16.05	13.38	BZ055A333ZSB
	.01	12.0	500	5	6.5	478-5410-ND	21.00	18.00	15.00	BZ05CA103ZSB
	.022	4.0	140	5	1.9	478-5411-ND	15.75	13.50	11.25	BZ254223ZSBCE
2	.40	5.5	35	40	6.9	478-3524-ND	53.90	46.20	38.50	BZ025A404ZLB

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic

SG Series Gold Capacitors

Electric Double Layer Capacitors

Specifications:
- Operating Temperature Range: -25°C ~ 70°C • Nominal Capacitance Range: 0.022F ~ 1.0F (20°C)
- Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics:
- Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C • Inflow Current at 70°C: ≤4 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C)
- Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤4 times of initial specified value • Inflow Current: ≤2 times of initial specified value

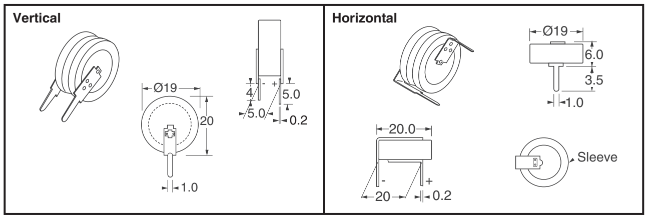

WV DC	Nominal Capacitance (F)	Internal Resistance Ω (1kHz)	Digi-Key Part No.	Price Each 1	50	100	500	Panasonic Part No.
Vertical								
5.5	0.47	30	P6974-ND	3.74	2.60	2.36	1.75	EEC-S5R5V474
	1.0	30	P6975-ND	3.87	2.69	2.44	1.82	EEC-S5R5V105
	1.5	30	P11343-ND	4.45	3.09	2.80	2.09	EEC-S5R5V155
Horizontal								
5.5	0.47	30	P6980-ND	3.74	2.60	2.36	1.75	EEC-S5R5H474
	1.0	30	P6981-ND	3.87	2.69	2.44	1.82	EEC-S5R5H105
	1.5	30	P11342-ND	4.45	3.09	2.80	2.09	EEC-S5R5H155

SD Series Gold Capacitors

Electric Double Layer Capacitors

Features:
- 30% smaller than the SG series • Terminal solderability 95% • Longer life than a secondary battery • Best choice for µA range IC memory back-up

Specifications:
- Operating Temperature Range: -25°C ~ 70°C • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics:
- Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C

Endurance: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C)
- Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤4 times the initial specified value

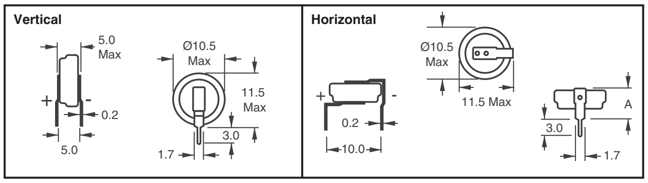

WV DC	Nominal Cap. (F)	Internal Resistance Ω (1kHz)	Dim. A mm (Max.)	Digi-Key Part No.	Price Each 1	50	100	500	Panasonic Part No.
Vertical									
5.5	0.022	≤150	—	P10789-ND	1.53	1.05	.91	.69	EEC-S0HD223V
	0.047	≤120	—	P10790-ND	1.58	1.09	.94	.71	EEC-S0HD473V
	0.10	≤75	—	P10791-ND	1.64	1.12	.97	.74	EEC-S0HD104V
	0.22	≤75	—	P10792-ND	1.69	1.16	1.01	.76	EEC-S0HD224V
	0.33	≤75	—	P11065-ND	1.75	1.20	1.04	.79	EEC-S0HD334V
Horizontal									
5.5	0.022	≤150	5.5	P10785-ND	1.53	1.05	.91	.69	EEC-S0HD223H
	0.047	≤120	5.5	P10786-ND	1.58	1.09	.94	.71	EEC-S0HD473H
	0.10	≤75	5.5	P10787-ND	1.64	1.12	.97	.74	EEC-S0HD104H
	0.22	≤75	6.0	P10788-ND	1.69	1.16	1.01	.76	EEC-S0HD224H
	0.33	≤75	6.5	P11064-ND	1.75	1.20	1.04	.79	EEC-S0HD334H

EN Series Gold Capacitors Surface Mount

Electric Double Layer Capacitors

Features: • Surface mount • Longer life than a secondary battery • Lead free stainless steel terminals

Applications: • Audio/Video equipment • Robotics • Computers • Home appliance • Office equipment

Specifications: • Operating Temperature Range: -10°C ~ 60°C • Capacitance Tolerance: -20% ~ 80% • Reflow Solder: *Terminal Types A, B and RL:* 240°C 30 seconds maximum; *Terminal Types AK, J2 and RK:* 250°C 5 seconds maximum

Endurance: (After 500 hours with rated voltage of 3.3VDC applied at 60°C)
- Current: 300µA or less (at 30 minutes) • Capacitance Change: ±30% of initial measured value • Internal Resistance: 4kΩ or less

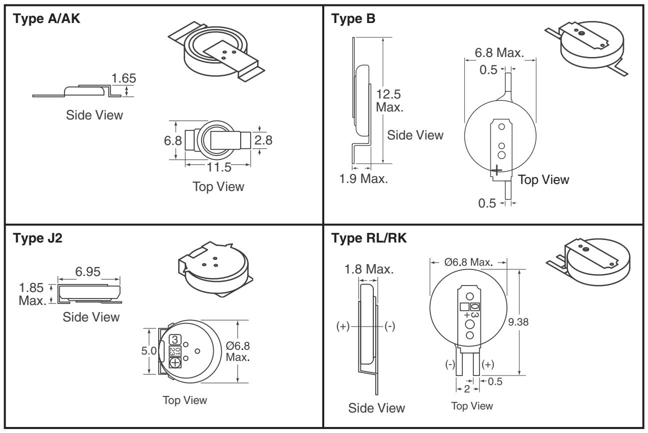

WV DC	Nom. Cap. (F)	Internal Resist. Ω Max.	Current µA	Terminal Type	Digi-Key Part No.	Cut Tape Price Each 1	50	100	T & R† Pricing 2,000	Panasonic Part No.
3.3	0.2	200	150	A	P11067CT-ND	2.56	1.97	1.88	823.00/M	EEC-EN0F204A
	0.2	200	150	AK	P14162CT-ND	2.43	1.88	1.79	782.00/M	EEC-EN0F204AK
	0.2	200	150	B	P11068CT-ND	2.56	1.97	1.88	823.00/M	EEC-EN0F204B
	0.2	200	150	J2	P14163CT-ND	2.43	1.88	1.79	782.00/M	EEC-EN0F204J2
	0.2	200	150	RL	P11069CT-ND	2.56	1.97	1.88	823.00/M	EEC-EN0F204RL
	0.2	200	150	RK	P14164CT-ND	2.43	1.88	1.79	782.00/M	EEC-EN0F204RK

† For Tape and Reel part number, change CT-ND to TR-ND.

EP Series Gold Capacitors Surface Mount

Electric Double Layer Capacitors

Features:
- Re-flow soldering method available (260°C) • Miniature size

Applications:
- Mobile Phones • PDAs • Digital Cameras

Specifications:
- Operating Temperature Range: -10°C ~ 60°C

Endurance:

EEC-EP0E333A: (After 500 hours application of 2.6VDC at 60°C the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value • Internal Resistance: 2kΩ or less

EEC-EP0F333A: (After 250 hours application of 3.3VDC at 60°C the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value • Internal Resistance: 4kΩ or less

Shelf Life: (After 500 hours storage at 60°C without load, the capacitor shall meet the following limits)
- Capacitance Change: ±30% of initial measured value • Internal Resistance: 1kΩ or less

Moisture Resistance: After 500 hours storage at 40°C, 90 to 95% R.H., the capacitor shall meet the specified limits for shelf life.

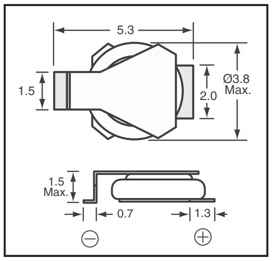

WV DC	Nom. Cap. (F)	Internal Resist. Ω Max.	Current µA	Cap. Range (F)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape & Reel† Pricing 4,000	Panasonic Part No.
2.6	0.033	350	5	0.0264 ~ 0.0594	P13498CT-ND	3.31	2.55	2.43	1029.00/M	EEC-EP0E333A
3.3	0.033	350	5	0.0264 ~ 0.0594	P14151CT-ND	3.63	2.79	2.66	1123.00/M	EEC-EP0F333A

† For Tape and Reel part number, change CT-ND to TR-ND.

RF/RG Series Electric Double Layer Gold Capacitors – Stacked Coin Type

Features: • Endurance: 85°C 2000h • Can be discharged mA current

Applications: • GAS, Water, watt-hour meter (LCD indicate, valve) • Server

Specifications: • Category Temperature Range: -25°C ~ 85°C • Capacitance Tolerance: -20% ~ 80%

High and Low Temperature Stability: Upper (85°C) and Lower (-25°C) Category Temperature: • Capacitance Change: ±30% of initial measured value at 20°C • Internal Resistance: ≤4 times of initial specified value

Endurance: (After 2,000 hours application of maximum operating voltage at 85°C the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value at 20°C • Internal Resistance: RF Series: 3.6VDC: ≤30Ω, 5.5VDC: ≤40Ω; RG Series: 3.6VDC: ≤40Ω

Shelf Life: (After 2,000 hours storage at 85°C without load the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value at 20°C • Internal Resistance: RF Series: 3.6VDC: ≤30Ω, 5.5VDC: ≤40Ω; RG Series: 3.6VDC: ≤40Ω

Series	Capacitance (F)	Internal Resistance Ω at 1kHz	Case	Discharge Current (mA)	Operating Voltage (VDC)	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
RF	0.68	≤20	B	≤25	3.6	P14153-ND	6.01	4.70	4.09	EEC-RF0V684
	0.68	≤20	B	≤20	5.5	P14152-ND	6.01	4.70	4.09	EEC-RF0H684
RG	1.0	≤20	A	≤20	3.6	P14154-ND	4.18	3.27	2.85	EEC-RG0V105H
	1.0	≤20	A	≤20	3.6	P14155-ND	4.18	3.27	2.85	EEC-RG0V105V

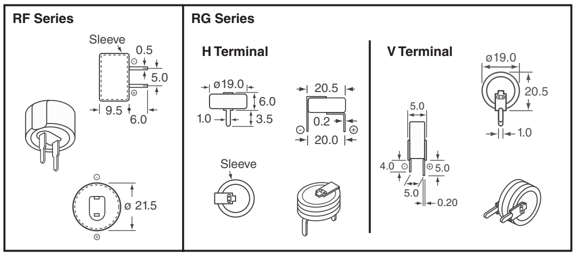

Panasonic®

HZ Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 60°C • Terminal Polarity: (—) Negative

Note: Taking into consideration the possibility of an imbalance in the voltages across the capacitors, make sure that the voltage applied to each capacitor will not exceed the maximum operating voltage.

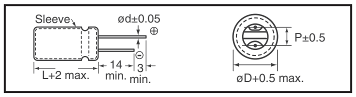

WV DC	Nominal Cap. (F)	Internal Resist. Ω (1kHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
2.5	3.3	0.3	8.0	20	0.6	3.5	P13762-ND	3.34	2.36	2.07	EEC-HZ0E335
	4.7	0.3	10	20	0.6	5.0	P13763-ND	3.17	2.21	2.00	EEC-HZ0E475
	10.0	0.2	10	30	0.6	5.0	P13764-ND	4.12	2.86	2.59	EEC-HZ0E106

HW Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 70°C (reflects capacitance range 1.0 ~ 22); -25°C ~ 60°C (reflects capacitance range 30 ~ 50) • Terminal Polarity: (—) Negative

Warning: If the voltage balance breaks down, an over voltage condition could result. To prevent this from occurring, add a voltage dividing resistor in parallel with each capacitor, allowing for the capacitor's leakage current.

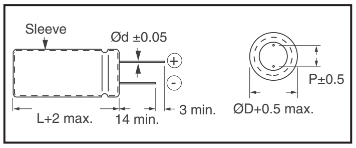

WV DC	Nominal Cap. (F)	Internal Resist. Ω (1kHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
2.3	3.3	≤0.3	12.5	23	0.8	5.0	P11347-ND	3.38	2.39	2.09	EEC-HW0D335
	4.7	≤0.3	12.5	23	0.8	5.0	P11344-ND	3.17	2.20	2.00	EEC-HW0D475
	10.0	≤0.2	12.5	35	0.8	5.0	P11345-ND	4.10	2.85	2.59	EEC-HW0D106
	22.0	≤0.1	18.0	35	0.8	7.5	P11346-ND	5.68	4.44	3.87	EEC-HW0D226
	30.0	≤0.1	18.0	35	0.8	7.5	P11348-ND	5.93	4.61	4.22	EEC-HW0D306
	50.0	≤0.1	18.0	40	0.8	7.5	P11066-ND	6.48	5.04	4.61	EEC-HW0D506
2.1	70.0	≤0.1	18.0	50	0.8	7.5	P11349-ND	9.58	7.46	6.82	EEC-HW0D706

AL Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Rated Working Voltage: 2.5VDC • Nominal Capacitance Range: 0.22F ~ 10F (20°C) • Capacitance Tolerance: -20% ~ 80% **Temperature Characteristics:** • Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -40°C: ≤3 times at 20°C • Inflow Current at 70°C: ≤3 times at 20°C **Load Life Characteristics:** (After 1000 hours with rated voltage of 2.5VDC applied at 70°C) • Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤2 times of initial specified value • Inflow Current: ≤2 times of initial specified value **Shelf Life:** After 1000 hours storage at 70°C without load, the capacitor shall meet the specified limits for "Endurance" **Loading with Moisture:** The capacitor shall meet the limits for "High Temperature Loading" after 500 hours exposure at 55°C (90% to 95% R.H.) with 2.5VDC applied

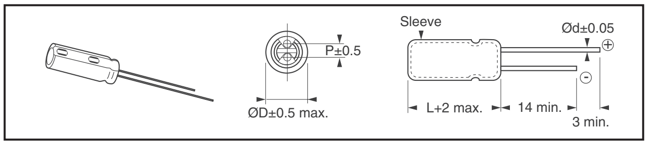

WV DC	Cap. (F)	Inflow Current* (mA)	Internal Resistance Ω (1kHz)	Dimensions (mm) ØD	L	Ød	P	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
2.5	1.0	0.18	1.0	8.0	22	0.7	3.5	P6963-ND	3.10	2.15	1.95	EEC-A0EL105
	3.3	0.30	0.3	12.5	23	0.8	5.0	P6966-ND	3.91	2.71	2.46	EEC-A0EL335
	4.7	0.44	0.2	12.5	35	0.8	5.0	P6967-ND	4.57	3.17	2.88	EEC-A0EL475
	10	0.60	0.1	18.0	35	0.8	7.5	P6969-ND	5.79	4.52	3.94	EEC-A0EL106

*Inflow current is measured after 90 minutes application of rated working voltage. In use, current will decrease to several µA level after approximately 10 hours application of rated working voltage.

F Series Gold Capacitors
Electric Double Layer Capacitors

Features: • Endurance: 85°C 1000 hours

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Maximum Operating Voltage: 5.5VDC • Nominal Capacitance Range: 0.047 ~ 1.0F

Temperature Characteristics: • Capacitance Change: ±30% of initial measured value at 20°C (-25° ~ 85°C) • Internal Resistance: - 25°C: Less than 5 times of initial measured value at 20°C

Endurance: (After 1000 hours of 5.5VDC at 85°C, the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value • Internal Resistance: Less than 4 times of initial specified value

Shelf Life: After 1000 hours storage at 85°C without load, the capacitor shall meet the specified limits for "Endurance"

Moisture Resistance: After 500 hours storage at 55°C (90% to 95% R.H.), the capacitor shall meet the specified limits for "Endurance"

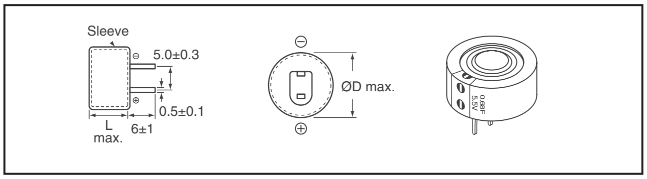

WV DC	Cap. (F)	Capacitance Range (F)	Current µA	Internal Resist. Ω (1kHz)	Case Code	Dim. (mm) øD	L	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
5.5	0.047	0.0376 ~ 0.0846	70	120	A	13.5	9.5	P12914-ND	3.07	2.18	1.90	EEC-F5R5H473
	0.10	0.080 ~ 0.180	100	100	A	13.5	9.5	P12912-ND	3.17	2.24	1.96	EEC-F5R5H104
	0.47	0.376 ~ 0.846	215	75	B	21.5	9.5	P12915-ND	5.49	4.29	3.74	EEC-F5R5H474
	0.68	0.476 ~ 1.224	315	50	B	21.5	9.5	P12916-ND	5.67	4.43	3.86	EEC-F5R5H684
	1.00	0.80 ~ 1.80	315	50	B	21.5	9.5	P12913-ND	5.85	4.57	3.98	EEC-F5R5H105

NF Series Gold Capacitors
Wet Type Electric Double Layer Capacitors

Gold capacitors provide super large capacitance by unique electrode and miniaturization technology meeting the trend of compactness. Suitable for a memory back-up for CMOS type RAM in microcomputers.

Features: • A long period memory back-up is available by excellent self-discharging characteristics • Low profile design is 9.5mm maximum in height and has a standardized 5mm terminal spacing • Superior to primary or secondary batteries in operating temperature range, charge/discharge characteristics, long time reliability and performance stability

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Surge Voltage: 6.3VDC • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change: ±30% at 20°C • Internal Resistance -25°C: Less than 5 times at 20°C • Leakage Current at 70°C: Less than 4 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C) • Capacitance Change: ±30% • Internal Resistance: Less than 4 times • Leakage Current: Less than 2 times

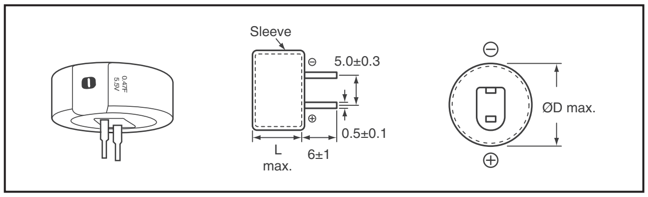

WV DC	Cap. (F)	Capacitance Range (F)	Inflow Current (30 min.)	Internal Resist. Ω (1kHz)	Dim. (mm) L	øD	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
5.5	0.1	0.08 ~ 0.18	100µA	75	7.5	13.5	P6952-ND	1.83	1.30	1.13	EEC-F5R5U104
	0.47	0.376 ~ 0.846	216µA	30	8.0	21.5	P6954-ND	4.09	2.84	2.58	EEC-F5R5U474
	1.0	0.8 ~ 1.8	315µA	30	8.0	21.5	P6955-ND	4.09	2.84	2.58	EEC-F5R5U105
	1.5	1.2 ~ 2.7	385	30	8.0	21.5	P11063-ND	3.91	3.05	2.66	EEC-F5R5U155

SII Seiko Instruments Inc.

XH-H Series Capacitors

XH-H Series capacitors feature high capacity, low impedance and long term reliability. They are most suitable for clock and memory backup in various electric equipment due to their wide operating voltage. **Features**: • Pb-free reflowable • Superior heat resistance (260°C peak) allows reflow soldering by Pb-free solder • High rated voltage • High capacity • Low impedance • Quick charge/discharge performance • Long cycle life • Simple charging circuit (constant-voltage charging) **Operating Temperature**: -20°C ~ 60°C **Applications**: Power supply back up use for cellular phones, wireless phones, PHS, PDA, and MD players

Dimensions in mm

Fig. 1

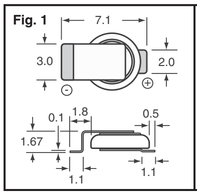

Fig. 2

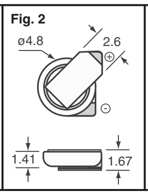

Fig. 3

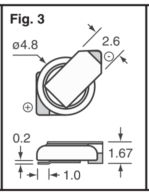

Fig. 4

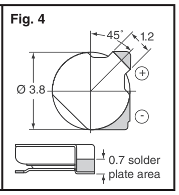

Fig.	Electrical Characteristics Nominal Voltage (V)	Electrostatic Capacity (F)	Internal Impedance (Ω)	Weight (g)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Seiko Instruments Part No.
1	3.0	0.07	70	0.07	728-1037-1-ND	2.38	2.04	1.60	728-1037-2-ND	3,600	1020.00/M	XH414H-II06E
	3.3	0.08	100	0.06	728-1049-1-ND	2.59	2.22	1.74	728-1049-2-ND	3,600	1110.00/M	XH414HG-II06E
2	3.0	0.07	70	0.07	728-1038-1-ND	2.24	1.92	1.51	—	—	—	XH414H-IV01E
3	3.0	0.07	70	0.07	728-1039-1-ND	2.38	2.04	1.60	728-1039-2-ND	3,600	1020.00/M	XH414H-IV02E
	3.3	0.08	100	0.06	728-1050-1-ND	2.52	2.16	1.70	728-1050-2-ND	4,000	1080.00/M	XH414HG-IV01E
4	3.3	0.02	300	0.04	728-1051-1-ND	3.57	3.06	2.40	728-1051-2-ND	4,000	1530.00/M	XH311HG-IV07E

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ELNA AMERICA, INC.

Electric Double Layer Capacitors

RoHS COMPLIANT

DB/DBJ Series — 5.5VDC

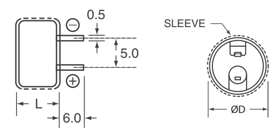

Features:
- Small-sized
- Large capacity
- Excellent voltage holding
- Wider temperature range than battery
- Ideal for backing up of CMOS, Microcomputers and RAM

Specifications:
- Operating Temperature Range: -25°C ~ 70°C (DB Series) -10°C ~ 85°C (DBJ Series)

Rated Capaci-tance(F)	Dimensions - mm D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DB Series								
.047	13.5	7.5	120	604-1000-ND	1.85	1.50	1.15	DB-5R5D473T
.10	13.5	7.5	75	604-1001-ND	2.24	1.82	1.39	DB-5R5D104T
.22	13.5	7.5	75	604-1004-ND	2.24	1.82	1.39	DB-5R5D224T
.33	13.5	7.5	75	604-1005-ND	2.24	1.82	1.39	DB-5R5D334T
.47	21.5	8.0	30	604-1002-ND	3.47	2.80	2.19	DB-5R5D474T
1.0	21.5	8.0	30	604-1003-ND	3.47	2.80	2.19	DB-5R5D105T
DBJ Series								
.22	13.5	7.5	150	604-1073-ND	2.38	1.93	1.47	DBJ-5R5D224T
.33	13.5	7.5	150	604-1074-ND	2.38	1.93	1.47	DBJ-5R5D334T

DC/DCK Series

Dim. in mm

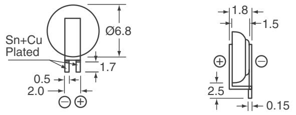

Features:
- Small sized
- Large capacity

Specifications:
- Operating Temperature Range: -25°C ~ 70°C (DC Series) -10°C ~ 60°C (DCK Series)

WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DC Series							
2.5	0.22	100	604-1006-ND	2.21	1.79	1.37	DC-2R5E224U-E
DCK Series							
3.3	0.22	200	604-1007-ND	2.21	1.79	1.37	DCK-3R3E224U-E

DH Series — 5.5VDC

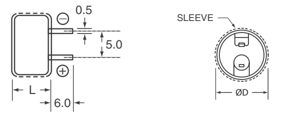

Features:
- High temperature tolerant
- Highly reliable

Specifications:
- Operating Temperature Range: -25°C ~ 85°C

Rated Capaci-tance(F)	Dimensions - mm D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1008-ND	2.58	2.09	1.60	DH-5R5D473T
.10	13.5	9.5	200	604-1009-ND	2.58	2.09	1.60	DH-5R5D104T
.22	13.5	9.5	120	604-1010-ND	2.58	2.09	1.60	DH-5R5D224T
.47	21.5	9.5	50	604-1011-ND	4.08	3.67	2.78	DH-5R5D474T
.68	21.5	9.5	50	604-1012-ND	4.08	3.67	2.78	DH-5R5D684T
1.0	21.5	9.5	30	604-1013-ND	4.08	3.67	2.78	DH-5R5D105T

DK Series — 6.3VDC

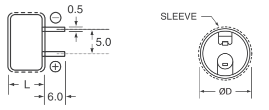

Features:
- High voltage tolerance (6.3V guaranteed)
- Highly reliable
- Ideal for backing up Li-battery back equipment

Specifications:
- Operating Temperature Range: -25°C ~ 70°C

Rated Capaci-tance(F)	Dimensions - mm D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1014-ND	2.89	2.34	1.79	DK-6R3D473T
.10	13.5	9.5	200	604-1015-ND	2.89	2.34	1.79	DK-6R3D104T
.47	21.5	9.5	50	604-1016-ND	4.10	3.69	2.79	DK-6R3D474T
.68	21.5	9.5	50	604-1017-ND	4.10	3.69	2.79	DK-6R3D684T
1.0	21.5	9.5	30	604-1018-ND	4.10	3.69	2.79	DK-6R3D105T

DSK Series

Dim. in mm

Digi-Reel®

Features: • Reflow soldering method available • Highly reliable • Safe • Pollution free **Specifications:** • Operating Temperature Range: -10°C ~ 60°C (DSK, DSK-614 Series) -10°C ~ 70°C (DSK-414 Series)

Fig. 1

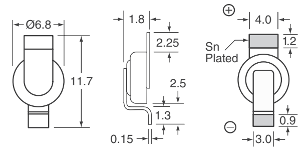

Fig. 2 ***NEW!***

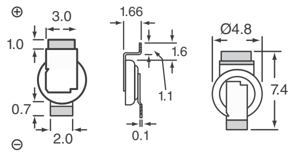

Fig.	WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	ELNA Part No.
1	3.3	0.22	200	604-1020-1-ND	3.49	2.89	2.55	1,500	1190.00/M	DSK-3R3H224U-HL
	3.3	0.2	200	604-1147-1-ND✔	3.28	2.72	2.40	1,500	1120.00/M	DSK-3R3H204T614-H2L
2	3.3	0.07	100	604-1148-1-ND✔	3.28	2.72	2.40	2,000	1080.00/M	DSK-3R3H703T414-HRL

✔ ***NEW!*** * For Tape and Reel part number, change 1-ND to 2-ND.

DX/DXJ Series — 5.5VDC

DX Series Features: • Smaller and lighter than DB Series • Miniaturized but can encase up to 0.33F in 11.5 x 5mm case **Specifications:** • Operating Temperature Range: -25°C ~ 70°C **DXJ Series Features:** • High temperature type • 5mm tall max. thin profile (H-Shaped) • Miniaturized but can encase up to 0.33F in 11.5 x 5mm case **Specifications:** • Operating Temperature Range: -10°C ~ 85°C

Fig. 1

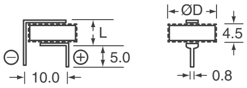

Fig. 2

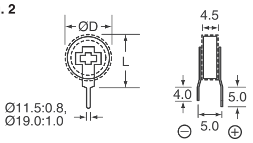

Fig.	Rated Capaci-tance(F)	Dimensions - mm D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DX Series									
1	.047	11.5	5.0	120	604-1021-ND	1.94	1.57	1.20	DX-5R5H473U
	.22	11.5	5.0	75	604-1023-ND	1.94	1.57	1.20	DX-5R5H224U
	.33	11.5	5.0	75	604-1024-ND	1.94	1.57	1.20	DX-5R5H334U
2	.047	11.5	13.0	120	604-1029-ND	1.94	1.57	1.20	DX-5R5V473U
	.10	11.5	13.0	75	604-1030-ND	1.94	1.57	1.20	DX-5R5V104U
	.22	11.5	13.0	75	604-1031-ND	1.94	1.57	1.20	DX-5R5V224U
	.33	11.5	13.0	75	604-1032-ND	1.94	1.57	1.20	DX-5R5V334U
	1.0	19.0	20.5	30	604-1033-ND	3.29	2.65	2.07	DX-5R5V105U
DXJ Series									
1	.10	11.5	5.0	150	604-1080-ND	2.14	1.74	1.33	DXJ-5R5H104U
	.33	11.5	5.0	150	604-1082-ND	2.14	1.74	1.33	DXJ-5R5H334U
2	.22	11.5	13.0	150	604-1089-ND	2.14	1.74	1.33	DXJ-5R5V224U
	.33	11.5	13.0	150	604-1090-ND	2.14	1.74	1.33	DXJ-5R5V334U

DZ/DZN Series — 2.5VDC

Features: • Low internal resistance allows boosting charge and heavy-current discharge • Unlimited number of charges and discharges **Specifications:** • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

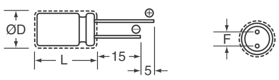

Fig. 2

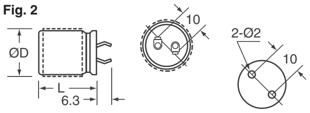

Fig.	Rated Capaci-tance(F)	Dimensions - mm D	L	F	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DZ Series										
1	1.0	8.0	22.0	3.5	1.0	604-1034-ND	2.89	2.34	1.79	DZ-2R5D105T
	1.0	8.0	15.0	3.5	1.0	604-1149-ND✔	2.84	2.30	1.76	DZ-2R5D105G4T
	3.3	12.5	23.0	5.0	0.3	604-1035-ND	3.88	3.13	2.44	DZ-2R5D335T
	4.7	12.5	31.5	5.0	0.2	604-1036-ND	3.93	3.54	2.67	DZ-2R5D475T
	10	12.5	31.5	5.0	0.2	604-1150-ND✔	5.25	4.73	3.57	DZ-2R5D106Z7T
	10	18.0	35.0	7.5	0.2	604-1037-ND	7.58	6.74	5.40	DZ-2R5D106T
	20	18.0	40.0	7.5	0.2	604-1038-ND	10.13	9.00	7.20	DZ-2R5D206T
2	50	25.0	40.0	—	0.08	604-1039-ND	24.21	22.94	18.48	DZ-2R5D506T
	100	35.0	50.0	—	0.08	604-1040-ND	45.00	42.50	34.38	DZ-2R5D107T
	200	35.0	50.0	—	0.08	604-1041-ND	36.25	34.24	27.70	DZ-2R5D207S57T
	300	35.0	50.0	—	0.08	604-1091-ND	59.33	55.62	48.21	DZH-2R5D307S57T
DZN Series										
2	50	25.0	40.0	—	0.03	604-1047-ND	24.61	23.31	18.78	DZN-2R5D506T
	100	35.0	50.0	—	0.03	604-1048-ND	47.27	44.65	36.11	DZN-2R5D107T

✔ ***NEW!***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

nichicon Electric Double Layer Capacitors EVerCAP®

RoHS

UM/JC Series

UM Series: Features: • Radial lead type • High voltage type • Suitable for quick charge and discharge • Wide temperature range **Specifications:** • Operating Temperature Range: -25°C ~ 70°C • Rated Voltage Range: 2.7V • Capacitance Tolerance: ±20% @ 20°C

JC Series: Features: • Snap-in terminal type • Excellent in voltage holding property • Suitable for quick charge and discharge • Wide temperature range **Specifications:** • Operating Temperature Range: -25°C ~ 60°C • Rated Voltage Range: 2.5V • Capacitance Tolerance: ±20% @ 20°C

Fig. 1

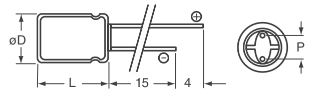

Fig. 2

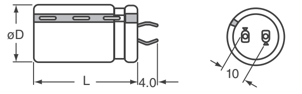

Fig.	Rated Capaci-tance (F)	Dimensions (mm) øD	L	P	ESR @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
					UM Series					
1	.47	6.3	9	2.5	4	493-3290-ND	1.36	1.08	.81	JUMT1474MED
	1.0	8	11.5	3.5	2	493-3291-ND	1.71	1.35	1.02	JUMT1105MPD
	2.2	8	20	3.5	2	493-3292-ND	2.14	1.73	1.32	JUMT1225MPD
	3.3	10	20	5.0	1	493-3293-ND	3.05	2.47	1.89	JUMT1335MPD
	4.7	12.5	20	5.0	0.4	493-3294-ND	4.45	3.59	2.81	JUMT1475MHD
	10	12.5	31.5	5.0	0.2	493-3295-ND	4.49	4.04	3.05	JUMT1106MHD
	22	16	31.5	7.5	0.2	493-3296-ND	6.86	6.10	4.88	JUMT1226MHD
	33	18	31.5	7.5	0.1	493-3297-ND	8.48	7.54	6.03	JUMT1336MHD
	47	18	40	7.5	0.1	493-3298-ND	10.50	9.33	7.47	JUMT1476MHD
					JC Series					
2	15	22	20	—	0.12	493-3299-ND	9.23	8.21	6.57	JJC0E156MELZ
	18	25	20	—	0.12	493-3300-ND	9.61	8.55	6.84	JJC0E186MELA
	22	30	20	—	0.09	493-3301-ND	10.00	8.89	7.11	JJC0E226MELB
	27	22	30	—	0.09	493-3302-ND	10.38	9.23	7.39	JJC0E276MELZ
	27	30	20	—	0.09	493-3303-ND	10.76	9.57	7.66	JJC0E276MELB
2	33	25	30	—	0.08	493-3304-ND	11.15	9.92	7.93	JJC0E336MELA
	33	35	20	—	0.08	493-3305-ND	10.25	9.74	7.69	JJC0E336MELC
	39	22	35	—	0.08	493-3306-ND	10.25	9.74	7.69	JJC0E396MELZ
	39	25	30	—	0.08	493-3307-ND	10.60	10.07	7.95	JJC0E396MELA
	39	35	20	—	0.08	493-3308-ND	10.94	10.39	8.21	JJC0E396MELC
	47	22	40	—	0.07	493-3309-ND	10.94	10.39	8.21	JJC0E476MELZ
	47	25	35	—	0.07	493-3310-ND	11.28	10.72	8.46	JJC0E476MELA
	56	25	40	—	0.07	493-3311-ND	11.96	11.37	8.98	JJC0E566MELA
	56	30	30	—	0.07	493-3312-ND	12.30	11.69	9.23	JJC0E566MELB
	68	35	30	—	0.06	493-3313-ND	12.99	12.34	9.74	JJC0E686MELC
	82	25	50	—	0.06	493-3314-ND	14.01	13.32	10.51	JJC0E826MELA
	82	30	40	—	0.06	493-3315-ND	14.35	13.64	10.77	JJC0E826MELB
	100	35	35	—	0.05	493-3316-ND	15.72	14.94	11.80	JJC0E107MELC
	120	30	50	—	0.05	493-3317-ND	17.09	16.24	12.82	JJC0E127MELB
	120	35	40	—	0.05	493-3318-ND	17.09	16.24	12.82	JJC0E127MELC
	150	35	50	—	0.04	493-3319-ND	19.82	18.84	14.87	JJC0E157MELC

JD/JL Series

RoHS

JD Series:

Features: • Screw terminal type • High energy density • Suitable for electric power storage **Specifications:** • Operating Temperature Range: -25°C ~ 60°C • Rated Voltage Range: 2.5V • Capacitance Tolerance: ±20% @ 20°C

JL Series:

Features: • Screw terminal type • High power density • Rapid charge and discharge • Suitable for regeneration and UPS applications **Specifications:** • Operating Temperature Range: -25°C ~ 60°C • Rated Voltage Range: 2.5V • Capacitance Tolerance: ±20% @ 20°C

Fig. 1

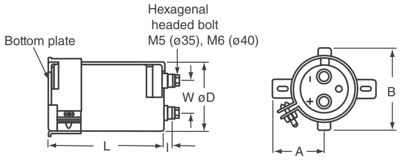

Fig. 2

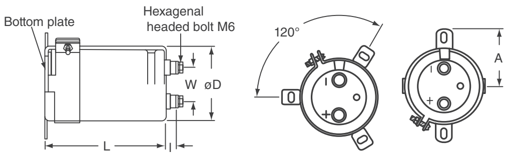

Fig.	Rated Capacitance (F)	Dimensions (mm) øD	L	W	l	A	B	DCR (mΩ)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
								JD Series					
1	600	35	85	12.7	6	29	45	16	493-3320-ND	88.45	83.88	77.78	JJD0E607MSEC
	800	35	105	12.7	6	29	45	13	493-3321-ND	101.46	96.22	89.22	JJD0E807MSEC
	950	35	135	12.7	6	29	45	10	493-3322-ND	117.07	111.02	102.95	JJD0E957MSEC
	1000	40	105	18.8	9	32	48	10	493-3323-ND	127.48	120.89	112.10	JJD0E108MSED
	1300	40	135	18.8	9	32	48	8	493-3324-ND	140.62	136.02	125.28	JJD0E138MSED
2	2300	51	135	22.0	10	38.5	—	5	493-3325-ND	151.39	146.44	134.88	JJD0E238MSEF
	2500	51	150	22.0	10	38.5	—	4	493-3326-ND	160.39	155.15	142.90	JJD0E258MSEF
	4000	63.5	150	28.6	10	43	—	3	493-3327-ND	246.90	238.82	219.97	JJD0E408MSEG
								JL Series					
1	400	35	85	12.7	6	29	45	7	493-3328-ND	106.66	101.15	93.80	JJL0E407MSEC
	550	35	105	12.7	6	29	45	5	493-3329-ND	127.48	120.89	112.10	JJL0E557MSEC
	650	35	135	12.7	6	29	45	4	493-3330-ND	138.15	133.63	123.09	JJL0E657MSEC
	700	40	105	18.8	9	32	48	4	493-3331-ND	152.95	147.95	136.27	JJL0E707MSED
	850	40	135	18.8	9	32	48	3	493-3332-ND	180.09	174.20	160.45	JJL0E857MSED
2	1500	51	135	22.0	10	38.5	—	2	493-3333-ND	200.05	193.51	178.23	JJL0E158MSEF
	1600	51	150	22.0	10	38.5	—	2	493-3334-ND	205.45	198.73	183.04	JJL0E168MSEF
	2600	63.5	150	28.6	10	43	—	1.6	493-3335-ND	451.00	432.36	406.92	JJL0E268MSEG

UNITED CHEMI-CON Electric Double Layer Capacitors

RoHS

Features:

- With the original electrode process, high energy density implementation is possible
- Charge/discharge efficiency are higher than in batteries • Environment-friendly
- Suited for electricity storage, battery assistance, short-term backups, etc.

Specifications:

- Operating Temperature Range: -25°C ~ 60°C DLA/DLC Series; -30°C ~ 60°C DSC Series • Rated Voltage Range: 2.5V • Capacitance Tolerance: ±10% @ 20°C

Fig. 1

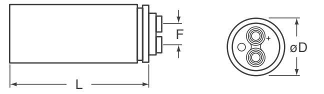

Fig. 2

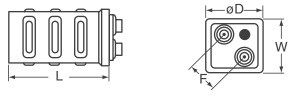

Fig.	Rated Capacitance (F)	Dimensions (mm) øD	L	F	W	Internal Resistance (mΩ)	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
						DLA Series					
1	700	35	105	12.7	—	5.5	565-3256-ND	56.00	52.50	45.50	DDLA2R5LGN701KAA5S
						DLC Series					
1	350	35	65	12.7	—	8	565-3257-ND	45.00	42.50	34.38	DDLC2R5LGN351KA65S
	1,400	40	150	17.0	—	2.5	565-3258-ND	72.00	67.50	58.50	DDLC2R5LGN142KBF0S
						DSC Series					
2	2,400	54	128	27.15	54	0.7	565-3259-ND	137.50	133.00	122.50	DDSC2R5LGN242K54BS

DCMC Series Screw Terminal Aluminum Electrolytic Capacitors

85°C High Capacitance Computer Grade

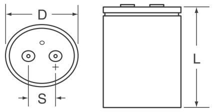

The DCMC series capacitor is the best choice for high-capacitance, power supply filters and energy storage applications such as welding equipment, UPS systems and computer hold-up power. The extended cathode foil of the DCMC assures cool operation with heatflow from the capacitor element to the can.

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Life Test:** 4,000 hours at 85°C and rated voltage (ΔCapacitance ±20%, ESR 200% of limit, DCL 100% of limit) • **Shelf Life:** 500 hours @ 85°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
50	38000	16.3	11.9	2.0	3.125	0.875	338-1220-ND	42.53	36.16	DCMC383U050BB2B
75	30000	15.6	12.1	2.0	4.125	0.875	338-1221-ND	46.94	39.90	DCMC303U075BC2B
	46000	12.0	15.8	2.0	5.625	0.875	338-1222-ND	63.01	53.56	DCMC463U075BF2B
	74000	12.9	17.0	3.0	4.125	1.25	338-1223-ND	93.33	79.34	DCMC743U075DC2B
200	4300	46.1	7.1	2.0	3.125	0.875	338-1224-ND	46.63	39.64	DCMC432T200BB2B
	6900	28.5	9.7	2.0	4.125	0.875	338-1225-ND	63.98	54.39	DCMC692T200BC2B
400	3900	36	10.3	2.5	4.625	1.125	338-1772-ND	99.40	84.49	DCMC392M400CD5F
	10000	17	17.4	3.5	5.125	1.25	338-1773-ND	174.54	148.36	DCMC103M400FE5F
450	1000	137.0	4.3	2.0	3.125	0.875	338-1226-ND	48.92	41.59	DCMC102T450BB2B
	1500	89.5	5.3	2.0	4.125	0.875	338-1227-ND	60.88	51.75	DCMC152T450BC2B
	1800	76.0	6.4	2.0	4.625	0.875	338-1228-ND	68.42	58.16	DCMC182T450BD2B
	2200	58.6	7.1	2.0	5.625	0.875	338-1229-ND	80.26	68.23	DCMC222T450BF2B
	2200	68.2	6.9	2.5	4.125	1.125	338-1230-ND	81.06	68.91	DCMC222T450CC2B
	2400	54.7	7.7	2.5	4.125	1.125	338-1231-ND	93.77	79.71	DCMC242T450CC2B
	3300	40	9.2	2.5	5.125	1.125	338-1770-ND	113.08	96.12	DCMC332M450CE5F
	3300	40.4	9.2	2.5	5.125	1.125	338-1232-ND	122.06	103.76	DCMC332T450CE2B
	4700	32	12.0	3.0	5.125	1.25	338-1771-ND	110.54	93.96	DCMC472M450DE5H
	4700	32.5	12.0	3.0	5.125	1.25	338-1233-ND	119.32	101.43	DCMC472T450DE2B
	5600	28.8	13.3	3.0	5.625	1.25	338-1234-ND	135.52	115.20	DCMC562T450DF2B
	8200	19.0	17.9	3.0	8.625	1.25	338-1236-ND	196.33	166.88	DCMC822T450DG2B

CGS Series Screw Terminal Aluminum Electrolytic Capacitors

85°C Computer Grade

Features:

High CV Product, suitable for use in most demanding applications requiring high current filtering or energy storage.

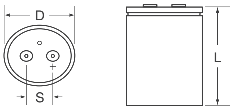

Specifications:

- Operating Temperature: -40°C ~ 85°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
16	24000	32.0	5.6	1.375	3.125	0.5	338-1440-ND	36.26	31.08	CGS243U016R3C
	120000	7.0	20.3	3.0	3.625	1.25	338-1436-ND	51.52	43.80	CGS124U016X3L
	210000	5.0	29.2	3.0	5.875	1.25	338-1413-ND	70.98	60.34	CGS214U016X5R
25	3000	235.0	1.8	1.375	2.125	0.5	338-1430-ND	33.67	28.86	CGS302U025R2C
30	55000	9.0	16.3	2.5	4.125	1.125	338-1432-ND	42.88	36.45	CGS553U030W4C
40	9000	19.0	8.2	1.375	4.125	0.5	338-1238-ND	24.50	20.83	CGS902U040R4C
	22000	31.0	7.1	2.0	3.125	0.875	338-1443-ND	30.76	26.15	CGS223U040V3C
	23000	20.0	9.9	2.0	4.125	0.875	338-1423-ND	31.20	26.52	CGS233U040V4C
	68000	12.0	16.0	3.0	4.125	1.25	338-1419-ND	58.38	49.63	CGS683U040X4C
50	4100	22.0	7.6	1.375	3.125	0.5	338-1425-ND	39.06	33.48	CGS412U050R3C
	9600	18.0	10.3	2.0	4.125	0.875	338-1239-ND	30.41	25.86	CGS962U050V4C
	10000	17.0	8.5	1.375	4.125	0.5	338-1415-ND	24.96	21.22	CGS103U050R4C
	15000	19.0	10.0	2.0	4.125	0.875	338-1437-ND	30.34	25.79	CGS153U050V4C
	18000	34.0	6.8	2.0	3.125	0.875	338-1240-ND	28.21	23.98	CGS183U050V3C
	20000	21.0	9.5	2.0	4.125	0.875	338-1241-ND	30.76	26.15	CGS203U050V4C
	31000	28.0	9.6	2.5	4.125	1.125	338-1242-ND	42.03	35.73	CGS313U050W4C
	56000	5.0	23.1	3.0	3.625	1.25	338-1243-ND	64.07	54.46	CGS563U050X3L
	60000	10.0	19.8	3.0	5.125	1.25	338-1422-ND	74.42	63.26	CGS603U050X5C
75	10000	41.0	6.2	2.0	3.125	0.875	338-1244-ND	28.68	24.39	CGS103U075V3C
	25000	24.0	11.7	2.5	5.625	1.125	338-1418-ND	53.92	45.84	CGS253U075W5L
	37000	10.0	19.7	3.0	5.625	1.25	338-1416-ND	73.84	62.77	CGS373U075X5L
100	1700	69.0	3.8	1.375	3.125	0.5	338-1439-ND	34.06	29.19	CGS172U100R3C
	9000	24.0	10.2	2.0	5.625	0.875	338-1434-ND	41.90	35.62	CGS902U100V5L
	10000	40.0	8.0	2.5	4.125	1.125	338-1424-ND	42.82	36.40	CGS103U100W4C
	15000	51.0	7.9	3.0	4.125	1.25	338-1245-ND	52.92	44.99	CGS153U100X4C
150	1100	64.0	4.4	1.375	4.125	0.5	338-1417-ND	24.38	20.73	CGS112U150R4C
	8700	27.0	12.5	3.0	5.875	1.25	338-1414-ND	73.26	62.28	CGS872U150X5R
200	1600	74.0	4.6	2.0	3.125	0.875	338-1433-ND	30.22	25.69	CGS162T200V3C
	2000	57.0	5.8	2.0	4.12	0.875	338-1438-ND	33.72	28.67	CGS202T200V4C
	5000	36.0	9.2	2.5	5.125	1.125	338-1411-ND	62.34	52.99	CGS502T200W5C
	5400	21.0	12.6	3.0	4.625	1.25	338-1441-ND	75.06	63.81	CGS542T200X4L
	7400	18.0	15.0	3.0	5.625	1.25	338-1431-ND	91.82	78.05	CGS742T200X5L
250	550	98.0	3.6	1.375	4.125	0.5	338-1412-ND	24.62	20.93	CGS551T250R4C
	1200	80.0	4.4	2.0	3.125	0.875	338-1246-ND	28.30	24.06	CGS122T250V3C
	2500	41.0	7.8	2.0	5.625	0.875	338-1426-ND	44.64	37.95	CGS252T250V5L
	6000	47.0	9.2	3.0	5.625	1.25	338-1428-ND	88.72	75.42	CGS602T250X5L
	10000	16.0	15.6	3.0	5.625	1.25	338-1420-ND	122.10	103.79	CGS103T250X5L
350	1000	14.0	3.7	2.0	4.125	0.875	338-1429-ND	37.20	31.62	CGS102T350V4C
	3300	44.0	9.5	3.0	5.625	1.25	338-1247-ND	85.73	72.88	CGS332T350X5L
450	210	332.0	1.9	1.375	4.125	0.5	338-1248-ND	22.51	19.14	CGS211T450R4C
	650	15.4	3.7	2.0	4.125	0.875	338-1427-ND	42.36	36.01	CGS651T450V4C
	1000	82.0	5.5	2.5	4.125	1.125	338-1408-ND	54.38	46.23	CGS102T450W4C
	1400	60.0	7.1	2.5	5.125	1.125	338-1405-ND	68.68	58.38	CGS142T450W5C
	1500	57.0	8.1	3.0	5.125	1.25	338-1435-ND	80.14	68.12	CGS152T450X5C
	1800	48.0	9.3	3.0	5.875	1.25	338-1410-ND	85.28	72.49	CGS182T450X5R
	2000	45.0	9.1	3.0	5.125	1.25	338-1407-ND	97.20	82.62	CGS202T450X5C
	2200	45.0	8.4	3.0	4.125	1.25	338-1442-ND	112.94	96.00	CGS222T450X4C
	2400	38.0	10.3	3.0	5.625	1.25	338-1250-ND	102.75	87.34	CGS242T450X5L
	3300	31.0	11.4	3.0	5.625	1.25	338-1421-ND	139.44	118.53	CGS332T450X5L

500C Series Screw Terminal Aluminum Electrolytic Capacitors

95°C Long Life Computer Grade

Type 500C capacitors are designed for mainframe computers and other long-life UPS and power supply filter applications. They deliver nearly as much capacitance as the DCMC capacitance, but with two times the life expectancy. They are an excellent choice for high ripple applications. The extended cathode foil of the 500C assures cool operation with heat flow from the capacitor element to the can.

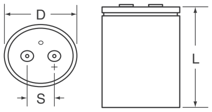

Features: • Long life • High capacitance • For Power supply and UPS systems • Thermal-Pak™ extended cathode construction.

Specifications: • **Operating Temperature:** -40°C ~ 95°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
25	12000	49.1	5.1	1.375	2.125	0.5	338-1251-ND	29.64	25.41	500C123T025AA2B
	22000	41.2	7.1	2.0	2.125	0.875	338-1252-ND	22.70	19.30	500C223T025BA2B
	47000	19.4	11.7	2.0	3.125	0.875	338-1253-ND	32.34	27.49	500C473T025BB2B
	68000	14.9	14.1	2.0	3.625	0.875	338-1254-ND	38.58	32.80	500C683T025BJ2B
40	6000	29.0	7.6	1.375	3.125	0.5	338-1255-ND	29.71	25.47	500C602T040AB2B
	22000	30.0	9.5	2.0	3.125	0.875	338-1257-ND	30.43	25.87	500C223T040BB2B
50	4100	35.1	7.0	1.375	3.125	0.5	338-1258-ND	30.28	25.96	500C412T050AB2B
	6800	46.0	6.1	1.375	3.125	0.5	338-1259-ND	34.59	29.65	500C682T050AB2B
	10000	32.8	8.0	1.375	4.125	0.5	338-1260-ND	21.64	18.40	500C103T050AC2B
	15000	20.1	12.7	2.0	4.125	0.875	338-1261-ND	31.56	26.83	500C153T050BC2B
100	2500	82.0	3.9	1.375	2.125	0.5	338-1263-ND	34.81	29.84	500C252T100AA2B
	4000	57.6	6.0	2.0	2.125	0.875	338-1264-ND	25.83	21.96	500C402T100BA2B
	10000	22.9	11.3	2.0	3.625	0.875	338-1265-ND	44.32	37.68	500C103T100BJ2B
	18000	12.7	18.2	2.5	4.125	1.125	338-1266-ND	67.24	57.16	500C183T100CC2B
250	550	99.0	4.6	1.375	4.125	0.5	338-1267-ND	31.57	27.06	500C551T250AC2B
	1200	100.0	4.6	2.0	2.125	0.875	338-1268-ND	29.64	25.19	500C122T250BA2B
	6000	21.7	14.2	3.0	3.125	1.25	338-1269-ND	76.72	65.22	500C602T250DB2B
	10000	16.3	18.6	3.0	4.625	1.25	338-1270-ND	125.17	106.40	500C103T250DD2B
350	1000	142.0	4.1	2.0	2.625	0.875	338-1271-ND	32.50	27.63	500C102T350BH2B
	5600	27.0	14.3	3.0	4.625	1.25	338-1272-ND	112.60	95.71	500C562T350DD2B
450	450	306.0	2.9	2.0	3.125	0.875	338-1273-ND	29.92	25.44	500C451T450BB2B
	1000	141.0	4.6	2.0	3.625	0.875	338-1274-ND	49.68	42.23	500C102T450BJ2B
	1800	78.0	7.2	2.0	5.625	0.875	338-1275-ND	70.40	59.84	500C182T450BF2B
	1800	70.0	9.6	3.0	5.625	1.25	338-1276-ND	74.52	63.35	500C182T450DF2B
	2200	68.0	7.9	2.5	4.125	1.125	338-1277-ND	89.62	76.18	500C222T450CC2B
	3100	48.0	10.4	2.5	5.625	1.125	338-1279-ND	110.24	93.71	500C312T450CF2B
	3600	23.0	17.6	3.0	4.625	1.25	338-1280-ND	137.14	116.57	500C362T450DD2B

Capacitor Mounting Hardware

Fig. 1

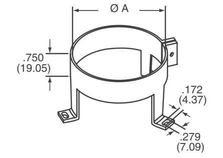

Fig. 2

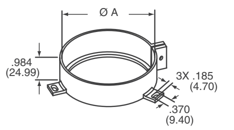

Fig.	Dimension A Inches (mm)	Material	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1	2.000 (50.80)	Metal	338-1364-ND	2.38	2.04	1.70	125565-09
	3.000 (76.20)	Metal	338-1366-ND	10.50	9.00	7.50	125565-11
2	3.500 (88.90)	Plastic	338-1367-ND	9.77	8.37	6.98	125309-01

UNITED CHEMI-CON

U36D Series Screw Terminal Aluminum Electrolytic Capacitors

85°C High Ripple

The U36D series is ideal for inverter applications requiring high ripple current capabilities.

Specifications:
- Operating Temperature Range: -40°C ~ 85°C • Leakage Current: 0.02CV (µA) or 5mA, whichever is smaller

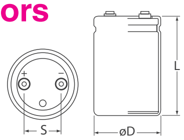

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	United Chemi-Con Part No.
16	18000	48	3.5	1.375	1.625	0.5	565-3304-ND	7.52	6.68	E36D160LPN183TA41M
	120000	10.1	14.5	2	3.125	0.875	565-3303-ND	11.36	10.80	E36D160LPN124TC79M
25	68000	9	12.2	2	3.625	0.875	565-3310-ND	12.04	11.44	E36D250LPN683TC92M
35	10000	40	4.8	1.375	2.125	0.5	565-3313-ND	7.27	6.46	E36D350LPN103TA54M
	100000	6.7	23.8	2.5	4.125	1.125	565-3314-ND	18.44	17.52	E36D350LPN104TDA5M
50	3900	64	3.7	1.375	1.625	0.5	565-3325-ND	7.38	6.56	E36D500LPN392TA41M
	6800	40	5.2	1.375	2.125	0.5	565-3328-ND	7.88	7.00	E36D500LPN682TA54M
	10000	29	6.6	1.375	2.625	0.5	565-3322-ND	8.48	7.54	E36D500LPN103TA67M
	27000	13.3	13.2	2	3.125	0.875	565-3324-ND	11.72	11.14	E36D500LPN273TC79M
	39000	10.4	14.4	2	4.125	0.875	565-3326-ND	13.62	12.94	E36D500LPN393TCA5M
	47000	9.5	18.1	2.5	3.125	1.125	565-3327-ND	16.64	15.81	E36D500LPN473TD79M
	100000	5.6	29.2	3	4.125	1.25	565-3323-ND	24.36	23.08	E36D500LPN104TEA5M
63	4700	42	4.1	1.375	2.125	0.5	565-3330-ND	7.85	6.98	E36D630LPN472TA54M
	22000	14	10.1	2	2.625	0.875	565-3329-ND	11.82	11.23	E36D630HPN223MC67M
75	18000	22	9.4	2	3.125	0.875	565-3331-ND	12.68	12.05	E36D750MLN183TC79M
80	100000	5.5	21.42	3	5.625	1.25	565-3332-ND	36.88	34.94	E36D800HPN104MEE3M
100	2200	71	3.3	1.375	2.125	0.5	565-3300-ND	7.63	6.78	E36D101LPN222TA54M
	4700	34.7	6.9	1.375	3.625	0.5	565-3302-ND	9.38	8.34	E36D101LPN472TA92M
	10000	18	8.4	2	3.625	0.875	565-3299-ND	12.20	11.59	E36D101LPN103TC92M
	22000	10	14.0	2.5	4.625	1.125	565-3301-ND	51.52	48.66	E36D101LPN223TDB7M
200	1000	102	2.6	1.375	2.625	0.5	565-3305-ND	8.73	7.76	E36D201LPN102TA67M
	1500	84	3.6	1.375	3.125	0.5	565-3307-ND	9.97	8.86	E36D201LPN152TA79M
	4700	32	8.0	2.5	3.125	1.125	565-3308-ND	17.48	16.61	E36D201LPN472TD79M
	8200	19	12.0	2.5	4.625	1.125	565-3309-ND	23.75	22.50	E36D201LPN822TDB7M
	12000	14	16.0	3	4.625	1.25	565-3306-ND	30.74	29.13	E36D201LPN123TEB7M
250	560	158	2.2	1.375	2.125	0.5	565-3312-ND	8.80	7.82	E36D251LPN561TA54M
	10000	17	14.7	3	4.625	1.25	565-3311-ND	36.54	34.62	E36D251LPN103TEB7M
350	3300	50	8.8	2.5	4.625	1.125	565-3315-ND	25.44	24.11	E36D351LPN332TDB7M
450	220	582	1.1	1.375	2.125	0.5	565-3319-ND	9.00	8.00	E36D451LPN221TA54M
	560	223	2.6	1.375	4.125	0.5	565-3321-ND	19.50	18.53	E36D451LPN561TAA5M
	1000	138	3.6	2	3.625	0.875	565-3318-ND	16.02	15.22	E36D451LPN102TC92M
	2200	113.2	6.95	2	5.625	0.875	565-3316-ND	23.96	22.70	E36D451HPN222MCE3M
	2200	114.5	6.86	2.5	4.125	1.125	565-3317-ND	24.68	23.39	E36D451HPN222MDA5M
	2200	62	6.4	2.5	4.125	1.125	565-3320-ND	26.60	25.20	E36D451LPN222TDA5M

CDE CORNELL DUBILIER

550C Series Screw Terminal Aluminum Electrolytic Capacitors

105°C Ultra-High Ripple Long Life Computer Grade

The 550C series is the standard for motor drive and other high-ripple, long-life applications. Expected operating life is more than 100,000 hours in typical applications. The 550C series is rated for 10,000 hours life with full ripple current, rated voltage, 85°C and 100lfm airflow while mounted horizontally. The extended cathode foil of the 550C assures heat flow from the capacitor element to the can in all orientations.

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: -10/+50%

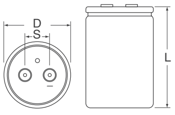

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
250	2900	37.4	10.9	2	4.125	0.88	338-1758-ND	75.20	63.92	550C292T250BC2B
	9000	13.9	24.6	3	5.125	1.25	338-1759-ND	129.06	109.71	550C902T250DE2B
400	1000	94.2	6.6	2	3.625	0.88	338-1760-ND	65.74	55.88	550C102T400BJ2B
	3400	28.9	15.8	2.5	5.625	1.13	338-1761-ND	166.86	141.84	550C342T400CF2B
	5600	18.1	22.4	3	5.875	1.25	338-1762-ND	164.38	139.73	550C562T400DP2B
450	1400	53.3	10.2	2	5.625	0.88	338-1763-ND	105.56	89.73	550C142T450BF2B
	3300	22.7	19.2	3	5.125	1.25	338-1764-ND	138.22	117.49	550C332T450DE2B
	3700	20.2	20.9	3	5.625	1.25	338-1765-ND	152.90	129.97	550C372T450DF2B
	4000	19.2	21.8	3	5.875	1.25	338-1767-ND	163.68	139.13	550C402T450DP2B
	4400	17.0	24.3	3.5	5.125	1.25	338-1766-ND	202.30	171.96	550C442T450FE2D
500	3700	32.4	16.8	3	5.875	1.25	338-1768-ND	218.96	186.12	550C372T500DP2B
	5400	26.1	20.9	3	7.625	1.25	338-1769-ND	311.26	264.58	550C542T500DN2B

3186 Series Screw Terminal Aluminum Electrolytic Capacitors

85°C High Capacitance

Specifications:

- Operating Temperature Range: -40°C ~ 85°C • Capacitance Tolerance: ±20% • Life Endurance Test: 2,000 hours @ 85°C and rated voltage

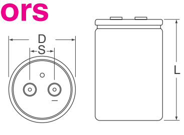

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
400	2200	55	5.75	2	4.125	0.875	338-1775-ND	75.38	64.08	3186EE222M400MPC1
	2200	61	5.0	2.5	3.125	1.125	338-1776-ND	63.02	53.57	3186FC222M400MPC1
	2200	67	5.5	2	4.625	0.875	338-1777-ND	62.10	52.79	3186EF222M400MPC1
400	3300	45	7.44	2.5	4.125	1.125	338-1778-ND	85.90	73.02	3186FE332M400MPC1
	3300	44	7.0	3	3.625	1.25	338-1779-ND	87.82	74.65	3186GD332M400MPC1
	3300	40	8.39	2.5	4.625	1.125	338-1780-ND	86.24	73.31	3186FF332M400MPC1
	4700	34	9.74	3	4.125	1.25	338-1781-ND	116.96	99.42	3186GE472M400MPC1
	4700	33	10.2	3	4.625	1.25	338-1782-ND	117.32	99.73	3186GF472M400MPC1
	5600	28	11.0	3	5.125	1.25	338-1783-ND	96.64	82.15	3186GG562M400MPC1
	6800	22	10.9	3	6.125	1.25	338-1784-ND	114.00	96.90	3186GY682M400MPC1
	6800	35	10.7	3	5.625	1.25	338-1785-ND	111.24	94.56	3186GH682M400MPC1
450	4700	30	11.6	3	5.625	1.25	338-1774-ND	108.44	92.18	3186GH472M450MPC1

U32D Series Screw Terminal Aluminum Electrolytic Capacitors

105°C High Ripple

The U32D series allows for extremely high ripple current for applications such as inverter designs and motor controllers. This series offers a maximum temperature rating of 105°C which allows a high operating temperature without sacrificing life. **Specifications:** • Operating Temperature Range: -40°C ~ 105°C • Leakage Current: 0.02CV (µA) or 5mA, whichever is smaller

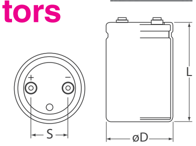

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	United Chemi-Con Part No.
50	100000	6.8	31.43	2.5	4.125	1.125	565-3298-ND	23.37	22.14	E32D500HPN104MDA5M
250	5600	40	8.4	2	3.625	0.875	565-3296-ND	23.33	22.11	E32D251CJN562MC92M
400	3300	48.0	9.73	3	3.625	1.25	565-3297-ND	31.62	29.96	E32D401HPN332ME92M

SLPX Series 85°C and SLP Series 105°C Aluminum Electrolytic Snap-In Capacitors

The SLPX and SLP Series is the best value package snap-in series for 85°C and 105°C 3000hr operation. This series is the most economical choice for DC filtering and power supply applications where long life and high ripple capability are needed **Features:** • 3000 hour ripple load life at rated voltage • 85°C (SLPX); 105°C (SLP) rated • Small case size with high capacitance • Best for switching power supplies • High ripple current **Specifications:**
- Operating Temperature Range: -40°C ~ 85°C (SLPX); -40°C ~ 105°C (SLP)
- Capacitance Tolerance: ±20%

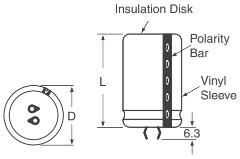

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions mm D	L	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
						SLPX Series			
16	10000	66	2.89	22	30	338-1564-ND	1.68	1.44	SLPX103M016A3P3
	18000	37	3.88	30	30	338-1585-ND	2.70	2.31	SLPX183M016E3P3
25	6800	88	2.56	22	30	338-1644-ND	1.82	1.56	SLPX682M025A3P3
	10000	60	3.31	22	35	338-1565-ND	2.28	1.95	SLPX103M025A5P3
	15000	40	4.21	22	50	338-1579-ND	2.98	2.55	SLPX153M025A9P3
	15000	40	4.10	25	40	338-1580-ND	3.08	2.64	SLPX153M025C7P3
	22000	27	5.29	25	50	338-1596-ND	4.87	4.17	SLPX223M025C9P3
	22000	27	5.33	30	40	338-1597-ND	4.27	3.66	SLPX223M025E7P3
	33000	18	5.29	30	50	338-1613-ND	5.46	4.68	SLPX333M025E9P3
	33000	18	6.75	35	45	338-1614-ND	6.02	5.16	SLPX333M025H4P3
35	4700	113	2.46	22	30	338-1624-ND	1.86	1.59	SLPX472M035A3P3
	4700	113	2.43	25	25	338-1625-ND	1.96	1.68	SLPX472M035C1P3
	6800	78	2.97	22	40	338-1645-ND	2.28	1.95	SLPX682M035A7P3
	6800	78	2.89	25	30	338-1646-ND	2.38	2.04	SLPX682M035C3P3
	6800	78	3.09	30	25	338-1647-ND	2.63	2.25	SLPX682M035E1P3

(Continued)

CDE CORNELL DUBILIER

SLPX Series 85°C and SLP Series 105°C Aluminum Electrolytic Snap-In Capacitors *(Cont.)*

RoHS

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions mm		Digi-Key Part No.	Price Each		Cornell Dubilier Part No.
				D	L		1	10	
35	8200	65	3.29	30	30	338-1662-ND	2.91	2.49	SLPX822M035E3P3
	10000	53	3.65	25	40	338-1566-ND	3.08	2.64	SLPX103M035C7P3
	10000	53	3.61	30	30	338-1567-ND	3.26	2.79	SLPX103M035E3P3
	15000	35	4.77	25	50	338-1581-ND	4.87	4.17	SLPX153M035C9P3
	15000	35	4.80	30	40	338-1582-ND	4.31	3.69	SLPX153M035E7P3
	22000	24	6.38	35	45	338-1598-ND	5.99	5.13	SLPX223M035H4P3
50	2200	211	1.93	22	25	338-1588-ND	1.61	1.38	SLPX222M050A1P3
	3300	141	2.41	22	30	338-1608-ND	1.96	1.68	SLPX332M050A3P3
	3300	141	2.38	25	25	338-1609-ND	2.10	1.80	SLPX332M050C1P3
	4700	99	3.02	22	40	338-1626-ND	2.45	2.10	SLPX472M050A7P3
	4700	99	3.07	25	30	338-1627-ND	2.56	2.19	SLPX472M050C3P3
	4700	99	3.01	30	25	338-1628-ND	2.80	2.40	SLPX472M050E1P3
	5600	83	3.26	22	40	338-1637-ND	2.87	2.46	SLPX562M050A7P3
	6800	68	3.94	22	50	338-1648-ND	3.19	2.73	SLPX682M050A9P3
	6800	68	3.87	25	40	338-1649-ND	3.29	2.82	SLPX682M050C7P3
	6800	68	3.93	30	35	338-1650-ND	3.50	3.00	SLPX682M050E5P3
	10000	46	5.08	30	40	338-1568-ND	4.59	3.93	SLPX103M050E7P3
	15000	31	6.56	35	45	338-1583-ND	6.48	5.55	SLPX153M050H4P3
	18000	26	7.14	35	50	338-1586-ND	7.46	6.39	SLPX183M050H9P3
	22000	21	7.89	35	50	338-1599-ND	8.93	7.65	SLPX223M050H9P3
63	2200	181	2.35	22	30	338-1589-ND	2.03	1.74	SLPX222M063A3P3
	4700	85	3.54	30	30	338-1629-ND	3.71	3.18	SLPX472M063E3P3
	6800	59	4.55	30	40	338-1651-ND	4.83	4.14	SLPX682M063E7P3
	6800	59	4.44	35	30	338-1652-ND	5.04	4.32	SLPX682M063H3P3
	8200	49	5.05	35	35	338-1663-ND	5.99	5.13	SLPX822M063H5P3
	10000	40	5.78	30	50	338-1569-ND	6.48	5.55	SLPX103M063E9P3
	10000	40	5.75	35	40	338-1570-ND	6.72	5.76	SLPX103M063H7P3
80	2200	151	2.53	25	30	338-1590-ND	2.98	2.55	SLPX222M080C3P3
	3300	101	3.23	22	50	338-1610-ND	3.89	3.33	SLPX332M080A9P3
	3300	101	3.29	25	40	338-1611-ND	3.99	3.42	SLPX332M080C7P3
	4700	71	4.12	35	30	338-1630-ND	5.71	4.89	SLPX472M080H3P3
	6800	49	5.27	30	50	338-1653-ND	7.35	6.30	SLPX682M080E9P3
	6800	49	5.24	35	40	338-1654-ND	7.60	6.51	SLPX682M080H7P3
100	1000	265	2.02	22	30	338-1553-ND	2.21	1.89	SLPX102M100A3P3
	2200	121	3.21	25	40	338-1591-ND	4.20	3.60	SLPX222M100C7P3
	2200	121	3.17	30	30	338-1592-ND	4.41	3.78	SLPX222M100E3P3
	3300	80	4.18	30	40	338-1612-ND	6.02	5.16	SLPX332M100E7P3
	4700	56	5.23	35	40	338-1631-ND	8.23	7.05	SLPX472M100H7P3
	6800	39	6.01	35	50	338-1655-ND	10.89	9.33	SLPX682M100H9P3
160	390	510	1.63	22	25	338-1615-ND	2.10	1.80	SLPX391M160A1P3
	470	423	1.86	22	30	338-1618-ND	2.35	2.01	SLPX471M160A3P3
	470	423	1.86	25	25	338-1619-ND	2.45	2.10	SLPX471M160C1P3
	560	355	2.15	22	30	338-1632-ND	2.59	2.22	SLPX561M160A3P3
	680	293	2.35	22	40	338-1638-ND	3.01	2.58	SLPX681M160A7P3
	680	293	2.33	25	30	338-1639-ND	3.12	2.67	SLPX681M160C3P3
	820	243	2.65	25	35	338-1656-ND	3.57	3.06	SLPX821M160C5P3
	1000	199	3.02	22	50	338-1554-ND	4.03	3.45	SLPX102M160A9P3
	1000	199	3.00	25	40	338-1555-ND	4.13	3.54	SLPX102M160C7P3
	1000	199	2.96	30	30	338-1556-ND	4.34	3.72	SLPX102M160E3P3
	1200	166	3.40	35	30	338-1571-ND	5.18	4.44	SLPX122M160H3P3
	1800	111	4.28	35	35	338-1584-ND	6.97	5.97	SLPX182M160H5P3
	2200	90	4.96	35	40	338-1593-ND	8.19	7.02	SLPX222M160H7P3
180	330	603	1.49	22	25	338-1603-ND	2.00	1.71	SLPX331M180A1P3
	470	423	2.08	25	25	338-1620-ND	3.19	2.73	SLPX471M180C1P3
	2200	90	4.83	35	40	338-1594-ND	8.79	7.53	SLPX222M180H7P3
	2700	74	5.30	35	50	338-1602-ND	10.43	8.94	SLPX272M180H9P3
200	270	737	1.37	22	25	338-1600-ND	2.00	1.71	SLPX271M200A1P3
	330	603	1.51	22	25	338-1604-ND	2.24	1.92	SLPX331M200A1P3
	330	603	1.63	22	30	338-1605-ND	2.28	1.95	SLPX331M200A3P3
	390	510	1.73	22	30	338-1616-ND	2.52	2.16	SLPX391M200A3P3
	470	423	1.97	22	30	338-1621-ND	2.80	2.40	SLPX471M200A3P3
	560	355	2.18	22	40	338-1633-ND	3.26	2.79	SLPX561M200A7P3
	560	355	2.15	30	25	338-1634-ND	3.54	3.03	SLPX561M200E1P3
	680	293	2.48	22	45	338-1640-ND	3.78	3.24	SLPX681M200A4P3
	680	293	2.48	25	35	338-1641-ND	3.82	3.27	SLPX681M200C5P3
	820	243	2.81	22	50	338-1657-ND	4.27	3.66	SLPX821M200A9P3
	820	243	2.79	25	40	338-1658-ND	4.45	3.81	SLPX821M200C7P3
	820	243	2.75	30	30	338-1659-ND	4.62	3.96	SLPX821M200E3P3
	1000	199	3.28	25	45	338-1557-ND	4.87	4.17	SLPX102M200C4P3
	1000	199	3.15	30	35	338-1558-ND	5.50	4.71	SLPX102M200E5P3
	1000	199	3.25	35	30	338-1559-ND	6.09	5.22	SLPX102M200H3P3
	1200	166	3.80	30	45	338-1572-ND	5.81	4.98	SLPX122M200E4P3
	1200	166	3.61	30	40	338-1573-ND	5.81	4.98	SLPX122M200E7P3
	1200	166	3.57	35	35	338-1574-ND	6.65	5.70	SLPX122M200H5P3
	1500	133	4.13	30	45	338-1575-ND	7.39	6.33	SLPX152M200E4P3
	1500	133	4.26	35	45	338-1576-ND	7.74	6.63	SLPX152M200H4P3
	1500	133	4.06	35	40	338-1577-ND	7.84	6.72	SLPX152M200H7P3
	2200	90	5.25	35	50	338-1595-ND	9.80	8.40	SLPX222M200H9P3
250	220	905	1.24	22	25	338-1587-ND	2.42	2.07	SLPX221M250A1P3
	270	737	1.50	22	30	338-1601-ND	2.77	2.37	SLPX271M250A3P3
	330	603	1.66	22	30	338-1606-ND	3.19	2.73	SLPX331M250A3P3
	330	603	1.61	25	25	338-1607-ND	3.40	2.91	SLPX331M250C1P3
	390	510	1.88	22	35	338-1617-ND	3.64	3.12	SLPX391M250A5P3
	470	423	2.15	22	40	338-1622-ND	4.13	3.54	SLPX471M250A7P3
	470	423	2.04	30	25	338-1623-ND	4.52	3.87	SLPX471M250E1P3
	560	355	2.48	22	45	338-1635-ND	4.80	4.11	SLPX561M250A4P3
	560	355	2.35	25	35	338-1636-ND	5.11	4.38	SLPX561M250C5P3
	680	293	2.67	25	40	338-1642-ND	5.99	5.13	SLPX681M250C7P3
	680	293	2.71	30	35	338-1643-ND	5.99	5.13	SLPX681M250E5P3
	820	243	2.98	30	35	338-1660-ND	4.70	4.03	SLPX821M250E5P3
	820	243	2.96	35	30	338-1661-ND	7.21	6.18	SLPX821M250H3P3
	1000	199	3.56	30	45	338-1560-ND	8.23	7.05	SLPX102M250E4P3
250	1000	199	3.20	30	35	338-1561-ND	8.02	6.87	SLPX102M250E5P3
	1000	199	3.73	30	50	338-1562-ND	8.02	6.87	SLPX102M250E9P3
	1000	199	3.48	35	35	338-1563-ND	8.47	7.26	SLPX102M250H5P3
	1500	133	4.33	35	45	338-1578-ND	11.94	10.23	SLPX152M250H4P3
400	100	1990	0.99	22	30	338-1947-ND ***NEW!***	2.59	2.22	SLPX101M400A3P3
	220	900	1.54	25	30	338-1948-ND ***NEW!***	4.69	4.02	SLPX221M400C3P3
	220	905	1.66	30	30	338-1949-ND ***NEW!***	4.94	4.23	SLPX221M400E3P3
	330	737	1.82	30	30	338-1950-ND ***NEW!***	6.69	5.73	SLPX331M400E3P3
	470	423	2.51	30	45	338-1951-ND ***NEW!***	8.86	7.59	SLPX471M400E4P3
	470	423	2.54	35	40	338-1952-ND ***NEW!***	9.28	7.95	SLPX471M400H7P3
	560	355	3.13	35	50	338-1953-ND ***NEW!***	10.75	9.21	SLPX561M400H9P3
	560	355	2.85	35	40	338-1954-ND ***NEW!***	10.68	9.15	SLPX561M400H7P3
	820	240	3.40	35	50	338-1955-ND ***NEW!***	15.05	12.90	SLPX821M400H9P3
450	68	3903	0.71	22	25	338-1956-ND ***NEW!***	2.66	2.28	SLPX680M450A1P3
	120	2212	1.00	22	30	338-1957-ND ***NEW!***	4.20	3.60	SLPX121M450A3P3
	120	2212	1.09	25	30	338-1958-ND ***NEW!***	3.75	3.21	SLPX121M450C3P3
	180	1470	1.35	30	25	338-1959-ND ***NEW!***	5.50	4.71	SLPX181M450E1P3
	220	1206	1.59	25	40	338-1960-ND ***NEW!***	6.51	5.58	SLPX221M450C7P3
	220	1206	1.66	35	30	338-1961-ND ***NEW!***	7.04	6.03	SLPX221M450H3P3
	270	983	1.78	30	30	338-1962-ND ***NEW!***	7.28	6.24	SLPX271M450E3P3
	330	804	2.15	35	35	338-1963-ND ***NEW!***	8.75	7.50	SLPX331M450H5P3
	330	804	2.12	30	40	338-1964-ND ***NEW!***	8.54	7.32	SLPX331M450E7P3
	470	565	2.80	35	50	338-1965-ND ***NEW!***	12.04	10.32	SLPX471M450H9P3
	470	565	2.68	35	45	338-1966-ND ***NEW!***	11.90	10.20	SLPX471M450H4P3

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @105°C 120Hz (Arms)	Dimensions mm		Digi-Key Part No.	Price Each		Cornell Dubilier Part No.
				D	L		1	10	
						SLP Series			
25	15000	40	3.60	25	45	338-1470-ND	3.57	3.06	SLP153M025C4P3
35	4700	113	2.20	25	25	338-1515-ND	2.31	1.98	SLP472M035C1P3
	10000	53	3.04	25	40	338-1457-ND	3.82	3.27	SLP103M035C7P3
	22000	24	5.48	35	50	338-1485-ND	7.42	6.36	SLP223M035H9P3
50	3300	141	2.00	25	30	338-1497-ND	2.63	2.25	SLP332M050C3P3
	4700	99	2.43	25	35	338-1516-ND	3.43	2.94	SLP472M050C5P3
63	2200	181	2.00	25	30	338-1481-ND	2.80	2.40	SLP222M063C3P3
	3300	121	2.50	30	30	338-1498-ND	3.92	3.36	SLP332M063E3P3
	6800	59	3.84	35	40	338-1542-ND	7.07	6.06	SLP682M063H7P3
	10000	40	5.11	35	50	338-1458-ND	9.63	8.25	SLP103M063H9P3
100	680	390	1.09	22	25	338-1528-ND	2.52	2.16	SLP681M100A1P3
	1000	265	1.45	25	25	338-1446-ND	3.40	2.91	SLP102M100C1P3
	2200	121	2.53	25	45	338-1482-ND	6.34	5.43	SLP222M100C4P3
	4700	56	3.80	35	45	338-1517-ND	12.81	10.98	SLP472M100H4P3
160	330	603	1.20	22	25	338-1489-ND	2.00	1.71	SLP331M160A1P3
	390	510	1.30	22	30	338-1499-ND	2.17	1.86	SLP391M160A3P3
	470	423	1.55	22	30	338-1504-ND	2.42	2.07	SLP471M160A3P3
	470	423	1.55	25	25	338-1505-ND	2.56	2.19	SLP471M160C1P3
	560	355	1.67	22	35	338-1518-ND	2.73	2.34	SLP561M160A5P3
	560	355	1.67	25	30	338-1519-ND	2.84	2.43	SLP561M160C3P3
	680	293	1.82	22	40	338-1529-ND	3.12	2.67	SLP681M160A7P3
	680	293	1.85	25	35	338-1530-ND	3.26	2.79	SLP681M160C5P3
	680	293	1.82	30	25	338-1531-ND	3.47	2.97	SLP681M160E1P3
	820	243	2.04	22	45	338-1543-ND	3.57	3.06	SLP821M160A4P3
	820	243	2.04	25	40	338-1544-ND	3.71	3.18	SLP821M160C7P3
	820	243	2.04	30	30	338-1545-ND	3.89	3.33	SLP821M160E3P3
	1000	199	2.40	25	45	338-1447-ND	4.27	3.66	SLP102M160C4P3
	1000	199	2.25	30	35	338-1448-ND	4.48	3.84	SLP102M160E5P3
	1200	166	2.49	35	30	338-1459-ND	5.39	4.62	SLP122M160H3P3
	1500	133	2.84	30	45	338-1464-ND	6.13	5.25	SLP152M160E4P3
	1500	133	2.84	35	35	338-1465-ND	6.34	5.43	SLP152M160H5P3
	1800	111	3.32	30	50	338-1473-ND	7.11	6.09	SLP182M160E9P3
	1800	111	3.00	35	40	338-1474-ND	7.28	6.24	SLP182M160H7P3
	2200	90	3.50	35	45	338-1483-ND	8.61	7.38	SLP222M160H4P3
180	270	737	1.00	22	25	338-1486-ND	2.10	1.80	SLP271M180A1P3
	330	603	1.20	22	30	338-1490-ND	2.35	2.01	SLP331M180A3P3
	390	510	1.35	22	30	338-1500-ND	2.63	2.25	SLP391M180A3P3
	390	510	1.35	25	25	338-1501-ND	2.77	2.37	SLP391M180C1P3
	470	423	1.50	22	35	338-1506-ND	2.98	2.55	SLP471M180A5P3
	470	423	1.50	25	30	338-1507-ND	3.08	2.64	SLP471M180C3P3
	560	355	1.67	22	40	338-1520-ND	3.36	2.88	SLP561M180A7P3
	560	355	1.67	25	30	338-1521-ND	4.24	3.63	SLP561M180C3P3
	560	355	1.67	30	25	338-1522-ND	4.48	3.84	SLP561M180E1P3
	680	293	1.78	22	45	338-1532-ND	3.92	3.36	SLP681M180A4P3
	680	293	1.78	25	35	338-1533-ND	4.94	4.23	SLP681M180C5P3
	680	293	1.78	30	30	338-1534-ND	4.24	3.63	SLP681M180E3P3
	820	243	2.04	22	50	338-1546-ND	4.59	3.93	SLP821M180A9P3
	820	243	2.04	25	40	338-1547-ND	5.78	4.95	SLP821M180C7P3
	820	243	2.04	30	30	338-1548-ND	5.95	5.10	SLP821M180E3P3
	1000	199	2.30	25	45	338-1449-ND	6.79	5.82	SLP102M180C4P3
	1000	199	2.30	30	35	338-1450-ND	8.33	7.14	SLP102M180E5P3
	1000	199	2.30	35	30	338-1451-ND	5.95	5.10	SLP102M180H3P3
	1200	166	2.55	30	40	338-1460-ND	8.16	6.99	SLP122M180E7P3
	1500	133	2.90	30	45	338-1466-ND	9.87	8.46	SLP152M180E4P3
	1500	133	2.90	35	40	338-1467-ND	8.16	6.99	SLP152M180H7P3
	1800	111	3.30	35	45	338-1475-ND	9.52	8.16	SLP182M180H4P3
	2200	90	3.65	35	50	338-1484-ND	11.27	9.66	SLP222M180H9P3
200	220	905	0.99	22	25	338-1478-ND	2.03	1.74	SLP221M200A1P3
	270	737	1.10	22	25	338-1487-ND	2.24	1.92	SLP271M200A1P3
	330	603	1.25	22	30	338-1491-ND	2.59	2.22	SLP331M200A3P3
	330	603	1.25	25	25	338-1492-ND	2.70	2.31	SLP331M200C1P3
	390	510	1.35	25	30	338-1502-ND	2.98	2.55	SLP391M200C3P3
	470	423	1.50	22	40	338-1508-ND	3.26	2.79	SLP471M200A7P3
	470	423	1.50	25	30	338-1509-ND	3.33	2.85	SLP471M200C3P3
	470	423	1.60	25	35	338-1510-ND	3.43	2.94	SLP471M200C5P3
	470	423	1.50	30	25	338-1511-ND	3.64	3.12	SLP471M200E1P3

(Continued)

CDE CORNELL DUBILIER

SLPX Series 85°C and SLP Series 105°C Aluminum Electrolytic Snap-In Capacitors *(Cont.)*

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @105°C 120Hz (Arms)	Dimensions mm D	L	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
200	560	355	1.67	22	45	338-1523-ND	3.75	3.21	SLP561M200A4P3
	560	355	1.70	25	35	338-1524-ND	3.82	3.27	SLP561M200C5P3
	560	355	1.67	30	25	338-1525-ND	4.06	3.48	SLP561M200E1P3
	680	293	1.78	22	50	338-1535-ND	4.34	3.72	SLP681M200A9P3
	680	293	1.72	25	35	338-1536-ND	4.38	3.75	SLP681M200C5P3
	680	293	1.82	25	40	338-1537-ND	4.45	3.81	SLP681M200C7P3
	680	293	1.78	30	30	338-1538-ND	4.55	3.90	SLP681M200E3P3
	820	243	2.10	25	45	338-1549-ND	5.15	4.41	SLP821M200C4P3
	820	243	2.04	35	30	338-1550-ND	5.64	4.83	SLP821M200H3P3
	1000	199	2.42	25	50	338-1452-ND	5.99	5.13	SLP102M200C9P3
	1000	199	2.30	30	40	338-1453-ND	5.99	5.13	SLP102M200E7P3
	1000	199	2.30	35	35	338-1454-ND	6.55	5.61	SLP102M200H5P3
	1200	166	2.65	30	45	338-1461-ND	7.18	6.15	SLP122M200E4P3
	1200	166	2.49	35	30	338-1462-ND	7.18	6.15	SLP122M200H3P3
	1200	166	2.65	35	35	338-1463-ND	7.42	6.36	SLP122M200H5P3
	1500	133	3.08	35	40	338-1468-ND	8.33	7.14	SLP152M200H7P3
	1800	111	3.48	35	45	338-1476-ND	10.40	8.91	SLP182M200H4P3
	1800	111	3.31	35	40	338-1477-ND	10.12	8.67	SLP182M200H7P3
250	180	1106	0.88	22	25	338-1471-ND	2.35	2.01	SLP181M250A1P3
	180	1106	0.95	25	25	338-1472-ND	2.35	2.01	SLP181M250C1P3
	220	905	1.00	22	30	338-1479-ND	2.59	2.22	SLP221M250A3P3
	220	905	1.08	25	25	338-1480-ND	2.84	2.43	SLP221M250C1P3
	270	737	1.18	22	35	338-1488-ND	3.15	2.70	SLP271M250A5P3
	330	603	1.15	22	30	338-1493-ND	3.40	2.91	SLP331M250A3P3
	330	603	1.30	22	40	338-1494-ND	3.40	2.91	SLP331M250A7P3
	330	603	1.30	25	30	338-1495-ND	3.68	3.15	SLP331M250C3P3
	330	603	1.35	30	25	338-1496-ND	3.92	3.36	SLP331M250E1P3
	390	510	1.49	25	35	338-1503-ND	4.17	3.57	SLP391M250C5P3
	470	423	1.65	22	50	338-1512-ND	4.66	3.99	SLP471M250A9P3
	470	423	1.65	25	40	338-1513-ND	4.80	4.11	SLP471M250C7P3
	470	423	1.65	30	30	338-1514-ND	5.01	4.29	SLP471M250E3P3
	560	355	1.80	25	45	338-1526-ND	5.53	4.74	SLP561M250C4P3
	560	355	1.80	30	35	338-1527-ND	5.71	4.89	SLP561M250E5P3
	680	293	2.03	25	50	338-1539-ND	6.48	5.55	SLP681M250C9P3
	680	293	2.00	30	40	338-1540-ND	6.55	5.61	SLP681M250E7P3
	680	293	2.00	35	30	338-1541-ND	6.97	5.97	SLP681M250H3P3
	820	243	2.30	30	45	338-1551-ND	7.77	6.66	SLP821M250E4P3
	820	243	2.30	35	35	338-1552-ND	8.02	6.87	SLP821M250H5P3
	1000	199	2.70	30	50	338-1455-ND	9.21	7.89	SLP102M250E9P3
	1000	199	2.69	35	40	338-1456-ND	9.38	8.04	SLP102M250H7P3
	1500	144	3.61	35	50	338-1469-ND	12.95	11.10	SLP152M250H9P3
400	47	7058	0.42	22	25	338-1929-ND ***NEW!***	2.00	1.71	SLP470M400A1P3
	150	2212	0.83	25	30	338-1930-ND ***NEW!***	4.41	3.78	SLP151M400C3P3
	220	1508	1.28	30	35	338-1931-ND ***NEW!***	6.23	5.34	SLP221M400E5P3
	330	1005	1.39	30	35	338-1932-ND ***NEW!***	8.61	7.38	SLP331M400E5P3
	390	851	1.60	35	35	338-1933-ND ***NEW!***	10.61	9.09	SLP391M400H5P3
	470	706	1.90	35	40	338-1934-ND ***NEW!***	12.43	10.65	SLP471M400H7P3
	560	592	2.12	35	45	338-1935-ND ***NEW!***	14.39	12.33	SLP561M400H4P3
	680	488	2.34	35	45	338-1936-ND ***NEW!***	16.52	14.16	SLP681M400H4P3
450	68	4879	0.53	22	30	338-1937-ND ***NEW!***	3.26	2.79	SLP680M450A3P3
	100	3317	0.65	22	30	338-1938-ND ***NEW!***	4.52	3.87	SLP101M450A3P3
	150	2121	0.82	25	30	338-1939-ND ***NEW!***	5.11	4.38	SLP151M450C3P3
	220	1508	1.12	35	30	338-1940-ND ***NEW!***	8.75	7.50	SLP221M450H3P3
	220	1508	1.05	30	30	338-1941-ND ***NEW!***	7.21	6.18	SLP221M450E3P3
	270	1229	1.28	35	35	338-1942-ND ***NEW!***	8.51	7.29	SLP271M450H5P3
	330	1005	1.37	35	35	338-1943-ND ***NEW!***	9.98	8.55	SLP331M450H5P3
	330	1005	1.45	35	40	338-1944-ND ***NEW!***	10.12	8.67	SLP331M450H7P3
	470	706	1.77	35	45	338-1945-ND ***NEW!***	13.06	11.19	SLP471M450H4P3
	470	706	1.85	35	50	338-1946-ND ***NEW!***	13.37	11.46	SLP471M450H9P3

NEW! 380LX and 382LX 85°C High Capacitance Snap-In Capacitors

The excellent value of the 380LX and 382LX capacitors find application in switching power supply input and output circuits and even motor drives where the high surface area of multiple units in parallel give high ripple current capability. The 382LX series also comes in 4 or 5 pin cans for stable, reverse proof mounting.

Specifications: • Operating Temperature Range: -40°C ~ 80°C up to 300Vdc, -25°C ~ 85°C ≥315V • Leakage Current: $\leq 3\sqrt{CV}$ µA at 5 min.

Fig. 1 — 380LX 2-Pins

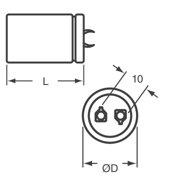

Fig. 2 — 382LX 4-Pins

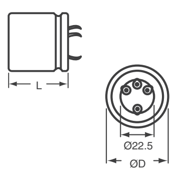

Fig. 3 — 382LX 5-Pins

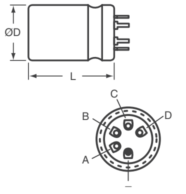

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions mm D	L	Digi-Key Part No.	Price Each 1	10	Cornell Dubilier Part No.
						Fig. 1 — 380LX 2-Pins			
500	47	3500	0.63	22	25	338-1967-ND	7.08	6.07	380LX470M500H012
	68	2438	0.78	22	35	338-1968-ND	7.94	6.81	380LX680M500H032
	68	2438	0.78	25	25	338-1969-ND	7.66	6.57	380LX680M500J012
	100	1658	0.99	22	45	338-1970-ND	8.67	7.43	380LX101M500H452
	100	1658	0.99	25	35	338-1971-ND	9.69	8.31	380LX101M500J032
	120	1382	1.13	22	50	338-1972-ND	9.80	8.40	380LX121M500H052
	120	1382	1.13	30	30	338-1973-ND	11.25	9.64	380LX121M500K022
	150	1105	1.29	25	45	338-1974-ND	11.34	9.73	380LX151M500J452
	150	1105	1.29	35	25	338-1975-ND	12.44	10.66	380LX151M500A012
	220	754	1.50	30	45	338-1976-ND	13.86	11.88	380LX221M500K452
	220	754	1.50	35	35	338-1977-ND	14.59	12.51	380LX221M500A032
	270	614	1.76	35	40	338-1978-ND	15.55	13.33	380LX271M500A042
	330	502	1.99	35	45	338-1979-ND	16.97	14.55	380LX331M500A452
	390	425	2.22	35	50	338-1980-ND	18.39	15.77	380LX391M500A052
						Fig. 2 — 382LX 4-Pins			
16	68000	18	9.00	35	50	338-2087-ND	17.70	15.18	382LX683M016A052
	100000	15	11.00	35	80	338-2088-ND	23.24	19.93	382LX104M016A082
25	56000	16	9.00	40	50	338-2089-ND	20.73	17.78	382LX563M025N052
	68000	13	10.40	35	80	338-2090-ND	23.86	20.45	382LX683M025A082
	68000	17	10.25	40	63	338-2091-ND	23.67	20.30	382LX683A025N062
	100000	12	12.00	40	80	338-2126-ND	28.68	24.38	382LX104M025N082
35	33000	18	7.15	35	50	338-2092-ND	16.87	14.47	382LX333M035A052
	39000	17	8.00	40	50	338-2093-ND	18.96	16.25	382LX393M035N052
	47000	16	9.60	40	63	338-2094-ND	21.41	18.35	382LX473M035N062
	56000	15	10.30	40	80	338-2095-ND	24.10	20.66	382LX563M035N082
50	22000	20	7.60	35	50	338-2096-ND	16.63	14.26	382LX223M050A052
	27000	18	8.30	35	63	338-2097-ND	19.11	16.38	382LX273M050A062
	27000	18	8.10	40	50	338-2098-ND	19.11	16.38	382LX273M050N052
	33000	15	9.20	35	80	338-2099-ND	21.96	18.83	382LX333M050A082
	39000	15	10.12	40	80	338-2100-ND	24.44	20.95	382LX393M050N082
63	12000	35	7.15	35	50	338-2101-ND	12.71	10.90	382LX123M063A052
	18000	23	9.41	35	80	338-2102-ND	16.11	13.81	382LX183M063A082
	18000	28	9.25	40	63	338-2103-ND	15.93	13.65	382LX183M063N062
	22000	20	9.50	40	80	338-2104-ND	17.85	15.31	382LX223M063N082
80	8200	38	5.83	35	50	338-2105-ND	13.20	11.32	382LX822M080A052
	10000	33	6.38	35	63	338-2106-ND	14.85	12.74	382LX103M080A062
	10000	33	6.56	40	50	338-2107-ND	14.85	12.74	382LX103M080N052
	12000	28	6.92	35	80	338-2108-ND	16.60	14.23	382LX123M080A082
	12000	28	7.29	40	63	338-2109-ND	16.42	14.07	382LX123M080N062
	15000	24	8.93	40	80	338-2110-ND	18.68	16.02	382LX153M080N082
100	8200	40	7.00	35	63	338-2111-ND	17.18	14.73	382LX822M100A062
	8200	40	7.30	40	50	338-2112-ND	17.18	14.73	382LX822M100N052
	10000	33	7.74	35	80	338-2113-ND	19.60	16.80	382LX103M100A082
	10000	33	8.00	40	63	338-2127-ND	31.08	26.64	382LX103M100N062
	12000	28	8.65	40	80	338-2114-ND	21.84	18.72	382LX123M100N082
200	2200	98	4.92	35	50	338-2115-ND	16.91	14.49	382LX222M200A052
	3900	64	6.40	40	80	338-2116-ND	24.93	21.37	382LX392M200N082
250	1500	133	4.04	35	50	338-2117-ND	15.53	13.31	382LX152M250A052
350	1000	250	3.80	40	50	338-1998-ND	14.46	12.39	382LX102M350N052
	1800	138	5.85	40	80	338-2118-ND	27.29	23.39	382LX182M350N082
400	560	326	2.72	35	50	338-2119-ND	12.43	10.65	382LX561M400A052
	820	222	3.40	40	50	338-2120-ND	15.54	13.32	382LX821M400N052
	1000	199	3.42	35	80	338-2121-ND	17.68	15.15	382LX102M400A082
	1000	249	3.40	40	63	338-2128-ND	30.84	26.43	382LX102M400N062
	1500	122	5.50	40	80	338-2122-ND	22.93	19.65	382LX152M400N082
450	470	423	2.53	35	50	338-2123-ND	13.16	11.28	382LX471M450A052
	680	290	3.15	40	50	338-2129-ND	33.67	28.86	382LX681M450N052
	820	243	3.78	35	80	338-2124-ND	19.11	16.38	382LX821M450A082
	820	243	3.70	40	63	338-2130-ND	33.36	28.59	382LX821M450N062
	1200	166	4.85	40	80	338-2125-ND	24.64	21.12	382LX122M450N082
						Fig. 3 — 382LX 5-Pins			
50	47000	13	11.54	50	63	338-1981-ND	28.79	24.68	382LX473M050B062VS
	68000	11	13.70	50	92	338-1982-ND	21.75	18.49	382LX683M050B092VS
	82000	11	13.87	50	105	338-1983-ND	25.24	21.45	382LX823M050B102VS
80	22000	19	11.08	50	63	338-1984-ND	24.84	21.29	382LX223M080B062VS
	27000	15	12.33	50	80	338-1985-ND	28.63	24.55	382LX273M080B082VS
	33000	14	13.37	50	92	338-1986-ND	33.20	28.46	382LX333M080B092VS
	39000	13	14.34	50	105	338-1987-ND	21.58	18.35	382LX393M080B102VS
100	15000	22	10.07	50	63	338-1988-ND	26.37	22.61	382LX153M100B062VS
	18000	18	11.00	50	80	338-1989-ND	30.01	25.73	382LX183M100B082VS
	22000	15	11.76	50	92	338-1990-ND	32.83	28.14	382LX223M100B092VS
	27000	14	12.53	50	105	338-1991-ND	23.38	19.88	382LX273M100B102VS
200	6800	32	11.41	50	80	338-1992-ND	22.23	18.90	382LX682M200B082VS
	8200	26	13.16	50	92	338-1993-ND	25.83	21.96	382LX822M200B092VS
	10000	21	14.17	50	105	338-1994-ND	30.49	25.92	382LX103M200B102VS
250	2700	74	6.77	50	50	338-1995-ND	23.52	20.16	382LX272M250B052VS
	6800	29	12.16	50	105	338-1996-ND	26.81	22.79	382LX682M250B102VS
	7500	26	12.56	50	105	338-1997-ND	29.07	24.71	382LX752M250B102VS
400	1200	166	5.21	50	50	338-1999-ND	22.51	19.30	382LX122M400B052VS
	1500	133	6.12	50	63	338-2000-ND	26.12	22.40	382LX152M400B062VS
	2200	90	8.13	50	92	338-2001-ND	34.55	29.61	382LX222M400B092VS
	2700	73	9.34	50	105	338-2002-ND	23.17	19.70	382LX272M400B102VS
450	1500	144	6.15	50	80	338-2003-ND	32.98	28.28	382LX152M450B082VS
	1800	120	7.02	50	92	338-2004-ND	21.68	18.43	382LX182M450B092VS
500	560	355	3.52	50	50	338-2005-ND	20.58	17.64	382LX561M500B052VS

(Continued)

CDE CORNELL DUBILIER

NEW! 380LX and 382LX 85°C High Capacitance Snap-in Capacitors *(Cont.)*

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @85°C 120Hz (Arms)	Dimensions mm		Digi-Key Part No.	Price Each		Cornell Dubilier Part No.
				D	L		1	10	
500	680	293	3.88	50	50	338-2006-ND	23.21	19.90	382LX681M500B052VS
	820	222	4.47	50	63	338-2007-ND	26.37	22.61	382LX821M500B062VS
	1000	199	5.05	50	80	338-2008-ND	30.38	26.04	382LX102M500B082VS
	1200	166	5.35	50	80	338-2009-ND	34.76	29.80	382LX122M500B082VS
	1500	144	6.65	50	105	338-2010-ND	23.70	20.15	382LX152M500B102VS

NEW! 383LX 105°C High Ripple Snap-In Capacitors

Adding longer life and more ripple capability to the excellent value of the 380LX and 382LX series capacitors, the 383LX readily handles tough switching power supply input and output circuits and motor drive bus capacitor applications where the high surface area of multiple units in parallel give high ripple current capability. The 383LX series come in 4 or 5 pin cans for stable, reverse proof mounting.
Specifications: • Operating Temperature: -40°C ~ 105°C up to 315Vdc, -25°C 350Vdc and up • Leakage Current: ≤3√CV µA

Fig. 1 — 383LX 4-Pins

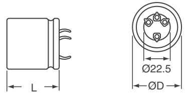

Fig. 2 — 383LX 5-Pins

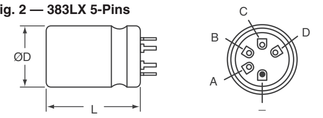

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @105°C 120Hz (Arms)	Dimensions mm		Digi-Key Part No.	Price Each		Cornell Dubilier Part No.
				D	L		1	10	
Fig. 1 — 383LX 4-Pins									
16	100000	15	8.03	35	80	338-2012-ND	22.14	18.98	383LX104M016A082
	120000	14	8.80	40	80	338-2013-ND	24.87	21.32	383LX124M016N082
25	47000	17	6.56	35	63	338-2014-ND	14.32	12.27	383LX473M025A062
	82000	14	8.70	40	80	338-2015-ND	31.29	26.82	383LX823M025N082
35	22000	23	5.00	35	50	338-2016-ND	13.44	11.52	383LX223M035A052
	47000	18	7.80	40	80	338-2017-ND	26.95	23.10	383LX473M035N082
50	22000	16	5.10	40	50	338-2018-ND	17.77	15.23	383LX223M050N052
	27000	15	6.05	40	63	338-2019-ND	18.31	15.69	383LX273M050N062
	39000	13	6.20	40	80	338-2021-ND	28.68	24.58	383LX393M050N082
63	12000	28	4.40	35	50	338-2024-ND	18.13	15.54	383LX123M063A052
	15000	24	4.92	35	63	338-2025-ND	21.19	18.17	383LX153M063A062
	15000	27	4.80	40	50	338-2026-ND	22.89	19.62	383LX153M063N052
	18000	22	5.79	35	80	338-2027-ND	24.22	20.77	383LX183M063A082
	18000	23	5.40	40	63	338-2028-ND	24.04	20.61	383LX183M063N062
	27000	17	6.60	40	80	338-2029-ND	34.96	29.97	383LX273M063N082
80	6800	41	3.90	35	50	338-2030-ND	11.24	9.63	383LX682M080A052
	8200	36	4.39	35	63	338-2031-ND	12.11	10.38	383LX822M080A062
	8200	25	4.40	40	50	338-2032-ND	12.60	10.80	383LX822M080N052
	10000	31	4.88	35	80	338-2033-ND	13.62	11.67	383LX103M080A082
	10000	21	5.30	40	63	338-2034-ND	13.72	11.76	383LX103M080N062
	15000	15	6.80	40	80	338-2036-ND	23.37	20.03	383LX153M080N082
100	4700	53	3.80	35	50	338-2040-ND	13.30	11.40	383LX472M100A052
	5600	44	4.06	35	63	338-2041-ND	14.60	12.51	383LX562M100A062
	6800	37	4.60	40	50	338-2042-ND	24.31	20.84	383LX682M100N052
	8200	30	5.00	40	63	338-2043-ND	27.75	23.79	383LX822M100N062
	12000	21	6.44	40	80	338-2044-ND	36.91	31.64	383LX123M100N082
200	2200	98	2.90	35	50	338-2048-ND	14.53	12.45	383LX222M200A052
	2700	80	3.65	35	63	338-2049-ND	21.47	18.41	383LX272M200A062
	2700	86	3.55	40	50	338-2050-ND	23.19	19.88	383LX272M200N052
	3300	65	4.52	35	80	338-2051-ND	24.84	21.29	383LX332M200A082
	3300	70	4.40	40	63	338-2052-ND	26.63	22.83	383LX332M200N062
	4700	50	5.75	40	80	338-2053-ND	34.56	29.63	383LX472M200N082
250	1200	18	2.30	35	50	338-2055-ND	12.11	10.38	383LX122M250A052
	1500	144	2.57	35	63	338-2056-ND	13.58	11.64	383LX152M250A062
	1800	120	3.25	40	50	338-2057-ND	22.92	19.65	383LX182M250N052
	2200	98	3.75	35	80	338-2058-ND	24.56	21.06	383LX222M250A082
	2200	98	3.70	40	63	338-2059-ND	26.33	22.57	383LX222M250N062
	3300	65	4.86	40	80	338-2060-ND	32.89	28.20	383LX332M250N082
350	1200	18	3.22	35	80	338-2062-ND	22.88	19.61	383LX122M350A082
	1200	170	2.00	40	63	338-2063-ND	24.51	21.01	383LX122M350N062
	1500	166	3.80	40	80	338-2064-ND	26.55	22.76	383LX152M350N082
400	560	296	1.80	35	50	338-2065-ND	13.83	11.85	383LX561M400A052
	680	244	2.20	40	50	338-2066-ND	17.35	14.88	383LX681M400N052
	820	202	2.44	35	63	338-2067-ND	23.03	19.74	383LX821M400A062
	820	202	2.58	40	50	338-2068-ND	23.03	19.74	383LX821M400N052
	1000	166	3.00	35	80	338-2070-ND	26.71	22.89	383LX102M400A082
	1000	202	3.00	40	63	338-2071-ND	28.64	24.56	383LX102M400N062
	1200	138	3.80	40	80	338-2072-ND	32.81	28.13	383LX122M400N082
	1800	101	5.06	40	105	338-2074-ND	24.52	20.84	383LX182M400N102
450	470	353	1.74	35	50	338-2077-ND	14.14	12.12	383LX471M450A052
	560	296	2.20	40	50	338-2078-ND	17.09	14.65	383LX561M450N052
	680	244	2.50	40	63	338-2079-ND	34.27	29.37	383LX681M450N062
	820	202	2.70	35	80	338-2081-ND	26.43	22.66	383LX821M450A082
	1000	166	3.50	40	80	338-2083-ND	30.26	25.94	383LX102M450N082
Fig. 2 — 383LX 5-Pins									
50	33000	18	7.75	50	50	338-2020-ND	24.44	20.95	383LX333M050B052VS
	47000	14	9.19	50	80	338-2022-ND	31.42	26.94	383LX473M050B082VS
	68000	11	10.40	50	105	338-2023-ND	23.91	20.32	383LX683M050B102VS
80	12000	35	6.03	50	50	338-2035-ND	21.01	18.01	383LX123M080B052VS
	15000	28	6.65	50	63	338-2037-ND	24.44	20.95	383LX153M080B062VS
	22000	22	7.83	50	92	338-2038-ND	31.79	27.25	383LX223M080B092VS
	27000	18	8.38	50	105	338-2039-ND	21.23	18.05	383LX273M080B102VS
100	15000	19	8.01	50	80	338-2045-ND	23.89	20.31	383LX153M100B082VS
	18000	17	8.64	50	92	338-2046-ND	27.76	23.60	383LX183M100B092VS
	22000	15	9.32	50	105	338-2047-ND	32.88	27.95	383LX223M100B102VS
200	8200	28	9.56	50	105	338-2054-ND	29.35	24.95	383LX822M200B102VS
250	5600	39	7.67	50	105	338-2061-ND	29.52	25.10	383LX562M250B102VS
400	820	202	3.20	50	50	338-2069-ND	23.95	20.53	383LX821M400B052VS
	1200	152	4.20	50	63	338-2073-ND	31.27	26.81	383LX122M400B062VS
	1800	101	5.50	50	80	338-2075-ND	24.45	20.78	383LX182M400B082VS
	2200	82	6.55	50	92	338-2076-ND	28.89	24.56	383LX222M400B092VS
450	680	244	2.90	50	50	338-2080-ND	21.35	18.30	383LX681M450B052VS
	820	222	3.42	50	50	338-2082-ND	25.14	21.56	383LX821M450B052VS
	1200	152	4.70	50	80	338-2084-ND	33.08	28.35	383LX122M450B082VS
	1500	122	6.03	50	105	338-2085-ND	22.51	19.13	383LX152M450B102VS
	1800	101	6.23	50	105	338-2086-ND	26.04	22.14	383LX182M450B102VS

VISHAY. BCcomponents

NEW! 096 PLL-4TSI 4-Terminal Snap-In Aluminum Electrolytic Capacitors

Long Life 85°C

Features:

- Very long useful life: 5,000 hours at 85°C • Low ESR, high ripple current capability

Applications:

- Telecommunication and industrial systems • Smoothing and filtering applications • Switched mode power supplies • Renewable energy power converters • Energy storage in pulse systems

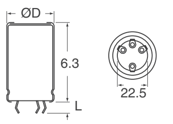

W.V. DC	Cap. (µF)	Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Dimensions mm		Digi-Key Part No.	Price Each		Vishay Part No.
				D	L		1	10	
400	1200	82	5.7	40	70	4329PHBK-ND	18.94	18.00	MAL209626122E3
500	680	277	4.2	40	70	4330PHBK-ND	24.13	22.86	MAL209629681E3

NEW! 101/102 PHR-ST Screw Terminal Aluminum Electrolytic Capacitors

Long Life 105°C

Features: • Long useful life **Applications:** • Buffering and filtering • Motor drives, inverters, UPS and traction systems • Pulsed power supplies

Fig. 1

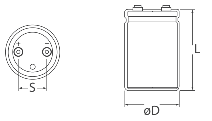

Fig. 2

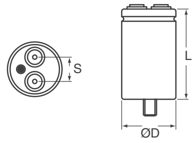

W.V. DC	Cap. (µF)	Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Dimensions mm			Digi-Key Part No.	Price Each		Vishay Part No.
				D	L	S		1	10	
Fig. 1										
40	47000	12	14.6	50	80	22.2	4332PHBK-ND	25.84	24.48	MAL210117473E3
	100000	7	19.2	65	105	28.5	4331PHBK-ND	39.96	37.74	MAL210117104E3
63	6800	38	6.6	35	60	12.8	4334PHBK-ND	17.18	16.33	MAL210118682E3
	10000	27	8.1	35	80	12.8	4333PHBK-ND	19.38	18.42	MAL210118103E3
100	15000	16	12.3	50	105	22.2	4365PHBK-ND	33.06	31.32	MAL210119153E3
200	2200	67	8	50	80	22.2	4335PHBK-ND	17.36	16.50	MAL210212222E3
	6800	25	15.2	65	105	28.5	4336PHBK-ND	34.96	33.12	MAL210212682E3
250	2200	60	8	50	80	22.2	4337PHBK-ND	20.52	19.44	MAL210213222E3
	4700	29	13.8	65	105	28.5	4338PHBK-ND	35.34	33.48	MAL210213472E3
350	1000	145	5.6	50	80	22.2	4339PHBK-ND	24.89	23.58	MAL210216102E3

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VISHAY **BCcomponents**

NEW! 101/102 PHR-ST Screw Terminal Aluminum Electrolytic Capacitors Long Life 105°C *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Dimensions mm			Digi-Key Part No.	Price Each		Vishay Part No.
				D	L	S		1	10	
400	470	271	3.1	35	80	12.8	4340PHBK-ND	19.02	18.07	MAL210216471E3
	1000	128	5.7	50	80	22.2	4342PHBK-ND	19.32	18.36	MAL210225102E3
	2200	60	10	65	105	28.5	4343PHBK-ND	37.98	35.87	MAL210226222E3
450	5600	23	17.3	76	146	31.8	4341PHBK-ND	88.02	83.47	MAL210217562E3
Fig. 2										
350	2200	72	9.3	65	105	28.5	4344PHBK-ND	33.63	31.86	MAL210265222E3

NEW! 157 PUM-SI Snap-In Aluminum Electrolytic Capacitors Miniature 85°C

Features:

Useful life: 5,000 hours @ 85°C

Applications:

- General purpose, industrial and audio/video systems
- Smoothing and filtering
- Standard and switched mode power supplies
- Energy storage in pulse systems.

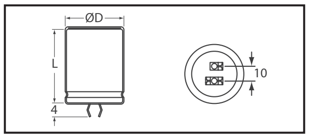

W.V. DC	Cap. (µF)	Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 120Hz (A)	Dimensions mm		Digi-Key Part No.	Price Each		Vishay Part No.
				D	L		1	10	
200	270	880	1.15	22	25	4350PHBK-ND	4.38	3.94	MAL215752271E3
	470	580	1.68	22	32	4345PHBK-ND	5.75	5.18	MAL215732471E3
250	470	505	1.87	25	35	4346PHBK-ND	6.59	5.86	MAL215733471E3
	1500	160	3.49	35	50	4351PHBK-ND	13.08	12.43	MAL215753152E3
400	100	2250	0.94	22	30	4352PHBK-ND	4.90	4.41	MAL215756101E3
	220	1040	1.54	25	40	4347PHBK-ND	6.80	6.04	MAL215746221E3
	470	505	2.4	30	50	4348PHBK-ND	10.48	9.96	MAL215746471E3
450	220	900	1.73	25	50	4349PHBK-ND	8.19	7.28	MAL215747221E3
	120	1600	1.09	25	30	4353PHBK-ND	6.23	5.61	MAL215757121E3
	470	420	2.6	35	50	4354PHBK-ND	12.02	11.42	MAL215757471E3

NEW! 159 PUL-SI Snap-In Aluminum Electrolytic Capacitors Long Life 105°C

Features:

- Useful life: 5,000 hours @ 105°C

Applications:

- General purpose, industrial and audio/video systems
- Smoothing and filtering
- Standard and switched mode power supplies
- Energy storage in pulse systems

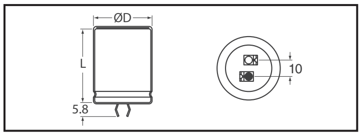

W.V. DC	Cap. (µF)	Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @105°C 120Hz (A)	Dimensions mm		Digi-Key Part No.	Price Each		Vishay Part No.
				D	L		1	10	
200	390	610	1.23	25	30	4358PHBK-ND	5.93	5.34	MAL215952391E3
	1200	210	2.07	35	35	4357PHBK-ND	9.11	8.10	MAL215952122E3
250	220	1080	1	22	30	4355PHBK-ND	5.50	4.95	MAL215943221E3
	1000	235	2.22	35	40	4359PHBK-ND	10.13	9.00	MAL215953102E3
400	68	3200	0.51	22	25	4360PHBK-ND	4.73	4.26	MAL215956689E3
	120	1600	0.76	22	35	4356PHBK-ND	6.08	5.47	MAL215946121E3
	330	640	1.4	35	35	4364PHBK-ND	9.52	8.46	MAL215966331E3
450	220	740	1.14	35	30	4361PHBK-ND	9.27	8.24	MAL215957221E3
	330	600	1.49	35	40	4362PHBK-ND	11.18	10.63	MAL215957331E3
	470	420	1.72	35	50	4363PHBK-ND	14.92	14.18	MAL215957471E3

EPCOS

NEW! B41456 Series Screw Terminal Aluminum Electrolytic Capacitors Compact — 85°C

Features:
- High ripple current capability
- Compact design
- High reliability
- All-welded construction ensures reliable electrical contact

Applications:
- General industrial electronics
- For switch-mode power supplies in professional equipment

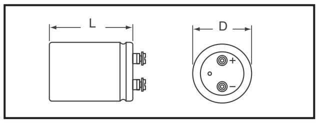

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
16	47000	35.7	80.7	16	11	495-4216-ND	13.69	11.41	9.82	B41456B4479M
	100000	51.6	80.7	10	14	495-4215-ND	22.15	18.46	15.88	B41456B4100M
25	68000	51.6	80.7	12	13	495-4218-ND	23.91	19.93	17.14	B41456B5689M
25	470000	76.9	220.7	4.0	31	495-4217-ND	108.93	90.78	78.07	B41456B5470M
40	10000	35.7	55.7	37	6.3	495-4220-ND	11.08	9.23	7.94	B41456B7109M
	22000	35.7	80.7	20	9.6	495-4222-ND	14.51	12.09	10.40	B41456B7229M
	47000	51.6	80.7	12	13	495-4223-ND	26.56	22.14	19.04	B41456B7479M
	100000	64.3	105.7	8.2	19	495-4219-ND	49.30	41.08	35.33	B41456B7100M
	220000	76.9	143.2	5.0	25	495-4221-ND	93.64	78.04	67.11	B41456B7220M
63	10000	35.7	80.7	31	7.7	495-4224-ND	16.77	13.98	12.02	B41456B8109M
	22000	51.6	80.7	16	11	495-4225-ND	26.72	22.27	19.15	B41456B8229M
	68000	76.9	105.7	5.0	20	495-4226-ND	66.89	55.74	47.94	B41456B8689M
100	4700	35.7	80.7	40	6.7	495-4229-ND	16.07	13.39	11.52	B41456B9478M
	10000	51.6	80.7	18	10	495-4227-ND	25.43	21.19	18.23	B41456B9109M
	22000	64.3	105.7	10	17	495-4228-ND	49.69	41.41	35.61	B41456B9229M
	47000	76.9	143.2	5.0	24	495-4230-ND	89.43	74.53	64.09	B41456B9479M

NEW! B41560 Series Screw Terminal Aluminum Electrolytic Capacitors Extremely Compact — 105°C

Features:

- High Reliability, extremely good electrical characteristics
- High CV product
- High ripple current capabilty
- All-welded construction ensures reliable electrical contact

Applications:

- General industrial electronics
- Professional power supplies

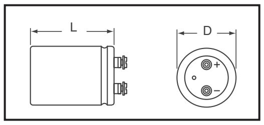

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
63	22000	51.6	105.7	14	25	495-4239-ND	29.06	24.22	20.83	B41560A8229M
	33000	64.3	105.7	11	31	495-4240-ND	43.56	36.31	31.23	B41560A8339M
	47000	64.3	105.7	10	35	495-4241-ND	57.33	47.78	41.09	B41560A8479M
	100000	76.9	143.2	5.0	48	495-4238-ND	103.19	86.00	73.96	B41560A8100M
100	10000	51.6	105.7	14	24	495-4242-ND	31.36	26.13	22.48	B41560A9109M
	15000	64.3	105.7	10	30	495-4243-ND	47.39	39.49	33.96	B41560A9159M

B43305 Series Aluminum Electrolytic Snap-In Capacitors Ultra Compact 85°C

Features: • Extremely high CV product • High ripple current capability

Applications: • Switch-mode power supplies in industrial and entertainment electronics • Uninterruptible power supplies

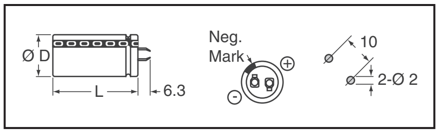

W.V. DC	Cap. (µF)	Dimensions (mm)		Typ. ESR @20°C 100Hz (mΩ)	Rated Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
200	680	25	30	190	2.13	495-3496-ND	5.19	3.66	3.18	B43305B2687M000
	1000	25	40	130	2.76	495-3494-ND	6.81	4.80	4.17	B43305B2108M000
400	1000	35	50	140	3.38	495-3493-ND	15.70	12.29	10.58	B43305A9108M000

B43310 Series Screw Terminal Aluminum Electrolytic Capacitors General Purpose 85°C

Features: All welded construction ensures reliable electrical contact, high reliability and high ripple current capability.

Applications: Uninterruptible power supplies, frequency converters.

Specifications: Load life @ 85°C: 2,000 hours, climatic category: 25/85/56

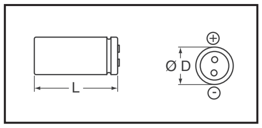

W.V. DC	Cap. (µf)	Dimensions (mm)		Max. ESR @20°C 120Hz (mΩ)	Rated Ripple Current @85°C 120Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
400	2200	51.6	130	87	6.5	495-3653-ND	35.94	29.95	25.76	B43310A9228M000
	2200	64.3	96	87	6.4	495-3654-ND	37.05	30.88	26.56	B43310C9228M000
	2700	64.3	96	71	7.1	495-3655-ND	42.84	35.70	30.71	B43310A9278M000
	3300	64.3	115	58	8.5	495-3656-ND	47.88	39.90	34.32	B43310A9338M000
	3900	64.3	130	49	9.7	495-3657-ND	56.70	47.25	40.64	B43310A9398M000
	4700	76.9	115	41	10.7	495-3658-ND	67.23	56.03	48.19	B43310A9478M000
	5600	76.9	130	34	12.2	495-3659-ND	77.49	64.58	55.54	B43310A9568M000
	6800	76.9	155	28	14.6	495-3660-ND	88.05	73.38	63.11	B43310A9688M000
	8200	91.0	157	23	16.8	495-3661-ND	112.71	93.93	80.78	B43310A9828M000

(Continued)

B43310 Series Screw Terminal Aluminum Electrolytic Capacitors
General Purpose 85°C *(Cont.)*

W.V. DC	Cap. (µf)	Dimensions (mm)		Max. ESR @20°C 120Hz (mΩ)	Rated Ripple Current @85°C 120Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
400	10000	91.0	157	19	18.5	495-3662-ND	144.00	120.00	103.20	B43310A9109M000
	12000	91.0	196	16	22.4	495-3663-ND	165.39	137.83	118.53	B43310A9129M000
	15000	91.0	220	13	26.2	495-3664-ND	202.47	168.73	145.11	B43310A9159M000
450	1800	51.6	130	102	6.0	495-3665-ND	36.24	30.20	25.98	B43310A5188M000
	2200	64.3	96	83	6.5	495-3666-ND	42.93	35.78	30.77	B43310A5228M000
	2700	64.3	115	68	7.8	495-3667-ND	50.76	42.30	36.38	B43310A5278M000
	3300	64.3	130	55	9.1	495-3668-ND	59.64	49.70	42.75	B43310A5338M000
	3900	76.9	115	49	9.7	495-3669-ND	70.80	59.00	50.74	B43310A5398M000
	4700	76.9	130	41	11.2	495-3670-ND	84.75	70.63	60.74	B43310A5478M000
	6800	91.0	157	28	15.3	495-3672-ND	127.14	105.95	91.12	B43310A5688M000
	8200	91.0	157	23	16.8	495-3673-ND	150.54	125.45	107.89	B43310A5828M000
	10000	91.0	196	19	20.4	495-3674-ND	184.59	153.83	132.29	B43310A5109M000
	12000	91.0	220	16	23.5	495-3675-ND	216.36	180.30	155.06	B43310A5129M000

NEW! B43456 Series Screw Terminal Aluminum Electrolytic Capacitors
Extremely Compact — 85°C

Features:
- High CV product • High reliability and high ripple current capability • All-welded constructions ensures reliable electrical contact

Applications:
- Frequency converters • Professional power supplies
- Uninterruptible power supplies

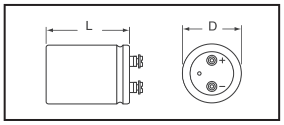

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @20°C 100Hz (mΩ)	Max. Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
400	1500	51.6	80.7	67	6.0	495-4235-ND	35.96	29.97	25.77	B43456A9158M
	3300	64.3	105.7	34	11	495-4236-ND	69.77	58.15	50.01	B43456A9338M
	4700	76.9	105.7	24	14	495-4237-ND	98.32	81.94	70.47	B43456A9478M
450	1000	51.6	80.7	180	4.8	495-4231-ND	31.16	25.97	22.34	B43456A5108M
	1500	51.6	105.7	120	6.5	495-4232-ND	44.03	36.70	31.56	B43456A5158M
	2200	64.3	105.7	75	8.4	495-4233-ND	60.80	50.67	43.58	B43456A5228M
	5600	76.9	143.2	34	17	495-4234-ND	142.97	119.15	102.47	B43456A5568M

NEW! B43501 Series Snap-In Aluminum Electrolytic Capacitors
Long Useful Life — 85°C

Features:
- Voltage derating (0.93 - V_R for V_R ≤ 450V) enables 105°C operation • Long useful life • High reliability • High ripple current capability • Low ESR • High CV product, compact

Applications:
- Frequency converters • Uninterruptiple power supplies
- Switch-mode power supplies in industrial and entertainment electronics

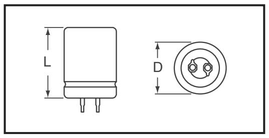

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @20°C 100Hz (mΩ)	Rated Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
400	100	25	25	1330	0.80	495-4247-ND	3.47	2.90	2.49	B43501B9107M
	150	30	25	890	1.10	495-4248-ND	4.45	3.71	3.19	B43501B9157M
	470	35	45	290	2.60	495-4246-ND	15.05	12.55	10.79	B43501A9477M
450	220	25	50	910	1.54	495-4244-ND	7.96	6.63	5.71	B43501A5227M
	470	35	50	430	2.70	495-4245-ND	20.01	16.68	14.34	B43501A5477M

NEW! B43504 Series Snap-In Aluminum Electrolytic Capacitors
Compact — 105°C

Features:
- High reliability • High CV product, compact • High ripple current capability • Low ESR

Applications:
- Frequency converters • Professional power supplies in industrial electronics and in data processing equipment
- Switch-mode power supplies in entertainment electronics

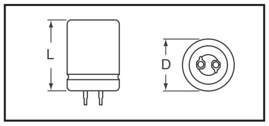

W.V. DC	Cap. (µF)	Dimensions (mm)		Typ. ESR @20°C 100Hz (mΩ)	Rated Ripple Current @105°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
250	220	22	30	580	0.89	495-4250-ND	3.28	2.73	2.35	B43504A2227M
	330	25	30	390	1.20	495-4261-ND	4.17	3.48	3.00	B43504C2337M
250	470	30	30	270	1.60	495-4259-ND	5.23	4.36	3.75	B43504B2477M
	1000	35	40	130	2.80	495-4249-ND	15.68	13.07	11.24	B43504A2108M
400	47	22	25	1860	0.39	495-4256-ND	2.65	2.21	1.91	B43504A9476M
	68	22	25	1290	0.47	495-4258-ND	3.20	2.67	2.30	B43504A9686M
	100	22	35	880	0.64	495-4254-ND	3.59	2.99	2.58	B43504A9107M
	100	25	25	880	0.61	495-4260-ND	3.71	3.09	2.66	B43504B9107M
	150	22	40	580	0.82	495-4255-ND	4.52	3.77	3.25	B43504A9157M
	220	35	30	400	1.20	495-4263-ND	8.58	7.15	6.15	B43504C9227M
	470	35	45	190	2.00	495-4257-ND	17.08	14.24	12.25	B43504A9477M
450	100	22	35	1350	0.64	495-4251-ND	4.33	3.61	3.11	B43504A5107M
	220	35	30	610	1.20	495-4262-ND	10.26	8.55	7.36	B43504C5227M
	330	30	50	410	1.60	495-4252-ND	11.27	9.40	8.08	B43504A5337M
	470	35	50	290	2.10	495-4253-ND	22.35	18.63	16.02	B43504A5477M

B43508 Series Aluminum Electrolytic Snap-In Capacitors
Ultra Compact 105°C

Features: • Extremely high CV product • High reliability • High ripple current capability

Applications: • Frequency converters • Professional power supplies in industrial electronics and in data processing equipment • Switch-mode power supplies in entertainment electronics

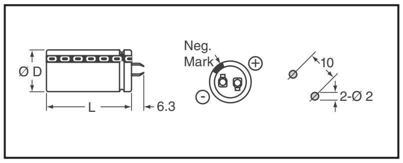

W.V. DC	Cap. (µF)	Dimensions (mm)		Typ. ESR @20°C 100Hz (mΩ)	Rated Ripple Current @105°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
200	1000	30	35	120	1.95	495-3502-ND	9.51	6.70	5.82	B43508B2108M000
400	470	30	40	260	1.70	495-3500-ND	13.78	10.79	9.29	B43508A9477M000
	560	35	40	220	1.83	495-3504-ND	12.38	9.69	8.35	B43508B9567M000
	680	30	55	180	2.20	495-3501-ND	18.51	14.49	12.48	B43508A9687M000
	1000	35	55	120	2.64	495-3499-ND	21.35	16.71	14.39	B43508A9108M000

B43560 Series Screw Terminal Aluminum Electrolytic Capacitors
High Reliability 105°C

Features: • Good thermal characteristics and high ripple current capability • Compact design • Long useful life • Wide temperature range • All-welded construction ensures reliable electrical contact

Applications: • Frequency converters • Professional power supplies

Specifications: • Useful life @ 105°C: >6,000 hours • Useful life @ 40°C: >250,000 hours • IEC Climatic category: 40/105/56

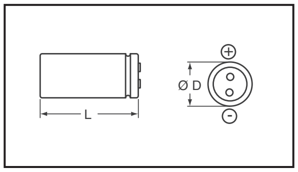

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @105°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
350	6800	76.9	143.2	27	16.7	495-3505-ND	203.03	169.19	145.51	B43560A4688M000
400	2200	64.3	105.7	84	7.8	495-3508-ND	89.96	74.97	64.48	B43560A9228M000
450	4700	76.9	168.7	40	14.7	495-3506-ND	231.80	193.17	166.13	B43560A5478M000
	8200	91.0	221.0	23	22	495-3507-ND	416.59	347.16	298.56	B43560A5828M000

B43564 Series Screw Terminal Aluminum Electrolytic Capacitors
High Ripple Current 85°C

Features: • Long useful life • High reliability • Extremely good electrical characteristics and small dimensions • All-welded construction ensures reliable electrical contact • Self-extinguishing electrolyte

Applications: • Frequency converters • Professional power supplies • Uninterruptible power supplies

Specifications: • Useful life @ 85°C: >15,000 hours (>12,000 hours for 500V parts) • Useful life @ 40°C: >250,000 hours • IEC Climatic category: 25/85/56

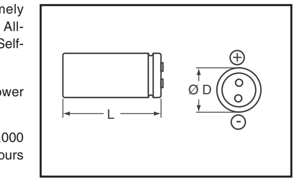

W.V. DC	Cap. (µF)	Dimensions (mm)		Max. ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
		D	L				1	10	50	
250	6800	76.9	105.7	29	14.5	495-3512-ND	83.58	69.66	59.90	B43564B2688M000
350	1000	51.6	80.7	130	5.1	495-3513-ND	21.84	18.20	15.66	B43564A4108M000
450	1000	51.6	105.7	140	5.4	495-3514-ND	30.26	25.22	21.69	B43564A5108M000
500	2700	76.9	105.7	54	11.2	495-3515-ND	103.12	85.93	73.90	B43564A6278M000

KEMET CHARGED. **NEW!** Aluminum Capacitors

PEH 534 Series

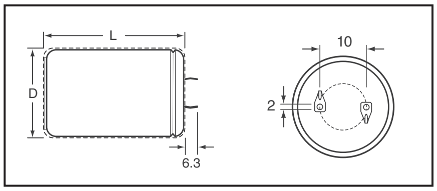

Applications: • SMPS • Drives • Welding Equipment • UPS and other power electronic applications
Features: • Snap-In • Long Life Grade • PCB Mounting • Low ESR and ESL • High Ripple Current
Specifications: • Operational Lifetime @ 105°C: 4,000 hours • Capacitance Tolerance: ±20% • Operating Temperature: -40°C ~ 105°C

W.V. DC	Dimensions (mm) D	L	Cap. (µF)	Maximum ESR @ 20°C 100kHz (mΩ)	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
400V	30	25	150	400	399-5685-ND	4.53	4.08	3.08	PEH534VCB3150M2
	30	35	220	270	399-5686-ND	6.80	6.12	4.63	PEH534VCD3220M2
450V	35	25	150	330	399-5687-ND	5.85	5.27	3.98	PEH534YDB3150M2
	35	30	220	230	399-5688-ND	8.12	7.22	5.78	PEH534YDC3220M2
	35	50	470	110	399-5684-ND	14.36	12.77	10.22	PEH534YDG3470M2

PEH 169 and PEH 200 Series

169 Series:
Applications: • Smoothing • Energy Storage • Pulse Operation in telecommunication demanding • Power Supplies • Process Control • AC-Motor Control • Traction • Welding • Measuring **Features:** • High CV-value • Long life > 10 years @ 50°C • Low ESR and ESL • High stability, 10 years shelf life **Specifications:** • Capacitance Tolerance: -10/30% • Temperature Range: -40°C ~ 105°C
200 Series:
Applications: • Uninterruptable Power Supplies (UPS) • Ground Power Units (GPU) • Welding Equipments and Drives **Features:** • High CV-value • Long Life • Low ESR and ESL • Compact Size **Specifications:** • Capacitance Tolerance: ±20% • Temperature Range: -40°C ~ 85°C

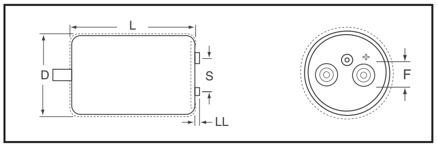

W.V. DC	Dimensions (mm) D	L	S	LL	F	Cap. (µF)	Operational Lifetime (Hours)	Maximum ESR @ 20°C 120Hz (mΩ)	DC Leakage Maximum (mA)	Rated Ripple Current 120Hz (mA)	Impedance @ 100kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
169 Series — 105°C																
63V	36.6	97.5	13	7.4	8	4700	6000	21	888.3µA	6300	15	399-5644-ND	25.94	24.64	19.46	PEH169MD4470QB2
	51.6	98.5	22	7.9	15	10000	7300	12	1.89	10100	15	399-5645-ND	23.39	22.16	17.85	PEH169MJ5100QB2
100V	51.6	98.5	22	7.9	15	4700	7300	25	1.41	7900	21	399-5646-ND	23.24	22.02	17.74	PEH169PJ4470QB2
200 Series — 85°C																
40V	36.6	62.5	13	7.4	8	10000	8400	22	1.2	12300	20	399-5649-ND	13.52	12.85	10.14	PEH200KB5100MB2
	36.6	76.5	13	7.4	8	15000	8400	15	1.8	14900	15	399-5651-ND	15.08	14.33	11.31	PEH200KC5150MB2
	36.6	97.5	13	7.4	8	22000	8400	11	2.64	17500	13	399-5652-ND	26.59	25.27	19.95	PEH200KD5220MB2
	66.6	109.2	28.5	7	15	100000	12600	8	6	25500	15	399-5654-ND	42.55	40.19	32.51	PEH200KO6100MB2
63V	36.6	54.5	13	7.4	8	4700	8400	30	888.3µA	9200	23	399-5648-ND	13.12	12.47	9.84	PEH200MA4470MB2
	36.6	97.5	13	7.4	8	10000	8400	14	1.89	13900	14	399-5650-ND	16.78	15.95	12.59	PEH200MD5100MB2
	51.6	98.5	22	7.9	15	22000	10000	10	4.16	19400	15	399-5653-ND	26.49	25.10	20.22	PEH200MJ5220MB2
420V	66.6	109.2	28.5	7	15	2700	12600	23	3.4	12700	16	399-5647-ND	83.54	78.90	63.82	PEH200OO427AMB2
450V	91.6	148.7	32	6.9	15	4700	25200	15	6	19300	16	399-5655-ND	90.15	85.49	79.27	PEH200YY4470MB2

ALS30 Series

Applications: • Smoothing • Energy Storage • Pulse operation in telecommunication demanding power supplies • Process Control • AC-Motor Control • Traction • Welding • Measuring

Features: • Compact Size • Long Life: 20,000 hours @ 85°C (Ur, Ir applied) • High ripple current • Excellent surge voltage capability

Specifications: • Capacitance Tolerance: ±20% • Temperature Range: -40°C ~ 85°C

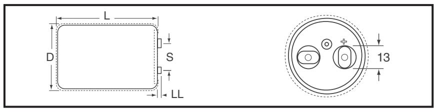

W.V. DC	Dimensions (mm) D	LL	L	S	Cap. (µF)	Operational Lifetime @ 85°C (Hours)	Maximum ESR @ 20°C 120Hz (mΩ)	DC Leakage Current (mA)	Rated Ripple Current @ 85°C 120Hz (mA)	Impedance @ 100kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
100V	51	5.5	82	22.2	10000	18000	27	3	10500	26	399-5629-ND	25.65	24.30	19.58	ALS30A103KE100
400V	51	5.5	82	22.2	1000	18000	131	1.2	5800	92	399-5630-ND	23.33	22.11	17.81	ALS30A102KE400
	51	5.5	105	22.2	2200	18000	74	2.64	8500	54	399-5631-ND	37.68	35.70	28.76	ALS30A222KF400
	66	5.5	105	28.5	2200	19000	58	2.64	11200	43	399-5632-ND	38.20	36.08	29.18	ALS30A222MF400
	77	5.5	105	31.8	3300	20000	46	3.96	13500	36	399-5633-ND†	52.70	49.78	40.26	ALS31A332NF400
	63.5	5.5	105	28.5	3300	20000	54@100Hz	2.4	11.81@100Hz	36@10kHz	399-5634-ND	50.11	47.33	38.28	ALS30A332LF400
	77	5.5	115	31.8	4700	20000	38@100Hz	3	15.25@100Hz	26@10kHz	399-5635-ND	60.38	56.61	49.07	ALS30A472NJ400
	77	5.5	146	31.8	6800	20000	27@100Hz	6	26900@10kHz	20@10kHz	399-5636-ND	80.48	75.45	65.39	ALS30A682NP400
450V	77	5.5	105	31.8	2200	20000	55	2.97	12200	41	399-5637-ND	44.96	42.47	34.35	ALS30A222NF450
	77	5.0	115	31.7	4700	20000	30@100Hz	6	14.93@100Hz	20@10kHz	399-5638-ND	71.81	67.32	58.35	ALS30A472NJ450
	77	5.5	220	31.8	6800	20000	20	6	27400	20	399-5639-ND	95.15	90.23	83.67	ALS30A682NT450
	77	5.5	220	31.8	6800	20000	20	6	27400	20	399-5640-ND†	94.40	89.52	83.01	ALS31C682NT450
500V	51	5.5	105	22.2	1000	18000	165@100Hz	3	6.68@100Hz	130@10kHz	399-5641-ND	33.95	32.17	25.92	ALS30A102KF500
	77	5.5	146	31.8	2200	20000	60	3.3	14300	46	399-5642-ND	60.01	56.68	45.85	ALS30A222NP500
	77	5.5	220	31.8	4700	20000	36	6	24300	28	399-5643-ND	92.57	87.78	81.40	ALS30A472NT500

† With threaded mounting stud

ALC10 Series and ALC40 Series

ALC10 Series:
Applications: Suited for industrial and commercial applications demanding high reliability and long life expectancy such as frequency converters, UPS systems and switch mode power supplies.
Features: • Compact Size • Long Life: 18,000 hours @ 85°C (Ur, Ir applied) • High ripple current • Excellent surge voltage capability
Specifications: • Capacitance Tolerance: ±20% • Temperature Range: -40°C ~ 85°C

ALC40 Series:
Applications: Suited for high reliability and long life applications such as frequency converters, UPS systems and switch mode power supplies.
Features: • Compact Size • Long Life: 9,000 hours @ 105°C (Ur, Ir applied) • High ripple current • Excellent surge voltage capability
Specifications: • Capacitance Tolerance: ±20% • Temperature Range: -40°C ~ 105°C

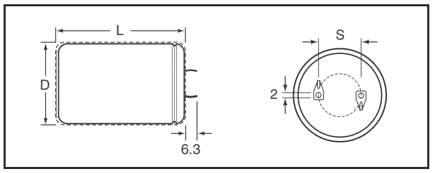

W.V. DC	Dimensions (mm) D	L	S	Cap. (µF)	Operational Lifetime (Hours)	Rated Ripple Current @ 85°C 100KHz (mA)	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
ALC10 Series — 85°C											
35V	40	45	22.5	33000	18000	—	399-5659-ND	15.32	14.56	11.49	ALC10C333EF035
40V	35	30	10	10000	15000	4010	399-5656-ND	7.61	6.76	5.41	ALC10A103DC040
63V	40	30	22.5	10000	18000	4670	399-5657-ND	12.48	11.86	9.36	ALC10C103EC063
	40	45	22.5	15000	18000	7180	399-5658-ND	16.04	15.24	12.03	ALC10C153EF063
250V	35	45	10	1000	15000	4750	399-5660-ND	9.99	8.88	7.11	ALC10A102DF250
	40	50	22.5	1500	18000	6580	399-5661-ND	13.80	13.11	10.35	ALC10C152EG250
400V	35	30	10	330	15000	2920	399-5662-ND	8.82	7.84	6.28	ALC10A331DC400
	35	55	10	680	15000	4730	399-5663-ND	12.32	11.71	9.24	ALC10A681DH400
	35	65	10	820	15000	—	399-5664-ND	14.62	13.89	10.97	ALC10A821DJ400
	40	75	22.5	1000	18000	8820	399-5665-ND	18.62	17.69	13.97	ALC10C102EL400
450V	35	35	10	330	15000	—	399-5666-ND	9.99	8.88	7.11	ALC10A331DD450
	40	35	22.5	330	18000	4910	399-5667-ND	11.20	10.64	8.40	ALC10C331ED450
	35	45	10	470	15000	4030	399-5668-ND	11.12	10.57	8.34	ALC10A471DF450
	35	50	10	560	15000	—	399-5669-ND	11.96	11.37	8.97	ALC10A561DF450
	35	65	10	820	15000	—	399-5670-ND	16.80	15.96	12.60	ALC10A821DJ450
	40	65	22.5	1000	18000	—	399-5671-ND	20.54	19.46	15.68	ALC10C102EJ450
500V	35	50	10	330	15000	—	399-5672-ND	11.34	10.78	8.51	ALC10A331DF500
	35	75	10	680	15000	—	399-5673-ND	19.66	18.68	14.75	ALC10A681DL500
	40	95	22.5	1000	18000	9180	399-5674-ND	25.33	24.00	19.33	ALC10C102EP500
ALC40 Series — 105°C											
400V	35	35	10	330	8000	3640	399-5675-ND	9.99	8.88	7.11	ALC40A331DD400
	30	45	10	330	7000	4020	399-5676-ND	9.61	8.54	6.84	ALC40A331CF400
	35	40	10	470	8000	—	399-5677-ND	10.84	10.30	8.13	ALC40A471DE400
	35	75	10	680	8000	6690	399-5678-ND	16.24	15.43	12.18	ALC40A681DL400
	40	75	22.5	1000	9000	10160	399-5679-ND	20.67	19.59	15.78	ALC40C102EL400
450V	35	45	10	330	8000	—	399-5680-ND	11.06	10.51	8.30	ALC40A331DF450
	35	55	10	470	8000	—	399-5681-ND	13.64	12.96	10.23	ALC40A471DH450
	40	105	22.5	820	8000	—	399-5682-ND	22.40	21.23	17.10	ALC40C821EL450
	45	75	22.5	1000	9000	—	399-5683-ND	27.51	26.07	21.00	ALC40C102FL450

Panasonic® TS Series Large Aluminum Electrolytic Capacitors

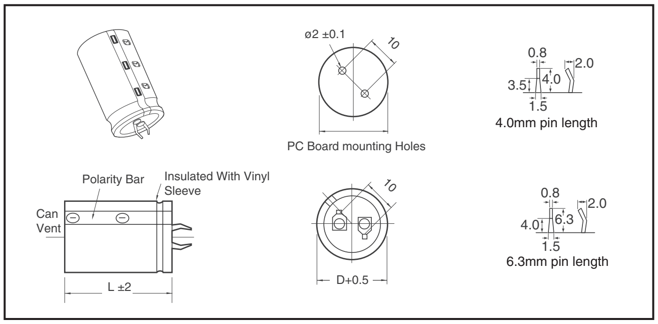

Operating Temperature:

• **TSU Series:**	(63 ~ 250V/ -40°C ~ 85°C)	• **TSHA Series:**	(16 ~ 200V/ -40°C ~ 105°C) (400V/ -25°C ~ 105°C)
• **TSUP Series:**	(16 ~ 250V/ -40°C ~ 85°C) (400 ~ 500V/ -25°C ~ 85°C)	• **TSHB Series:**	(200 ~ 250V/ -40°C ~ 105°C) (400 ~ 450V/ -25°C ~ 105°C)
• **TSUQ Series:**	(160 ~ 250V/ -40°C ~ 85°C) (350 ~ 450V/ -25°C ~ 85°C)	• **TSHC Series:**	(160 ~ 250V/ -40°C ~ 105°C) (350 ~ 450V/ -25°C ~ 105°C)
• **TSNH Series:**	(16 ~ 250V/ -40°C ~ 105°C) (400V/ -25°C ~ 105°C)	• **TSED Series:**	(200 ~ 250V/ -40°C ~ 105°C) (400 ~ 450V/ -25°C ~ 105°C)

Capacitance Tolerance (at 120Hz): ±20%

Rated DC Voltage:	16	25	35	50	63	80	100	160	200	250	350	400	420	450	500
Surge Voltage:	20	32	44	63	79	100	125	200	250	300	400	450	470	500	550

Ripple Current Multiplier (mA):

Frequency (Hz):	**50**	**60**	**120**	**500**	**1K**	**10K ~ 50K**
16V ~ 100V:	0.93	0.95	1.0	1.05	1.08	1.15
160V ~ 500V:	0.75	0.8	1.0	1.2	1.25	1.4

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
TSU General Purpose 85°C, 2000 Hour Life										
200	470	—	1.3	25	40	P6542-ND	3.29	2.77	1.93	ECE-S2DU471M
250	680	—	1.8	30	50	P6553-ND	6.00	5.04	3.51	ECE-S2EU681U
TSUP Miniaturized Size General Purpose 85°C, 3000 Hour Life										
16	4700	0.159	1.77	22	25	P7600-ND◆	1.94	1.63	1.14	ECO-S1CP472BA
	6800	0.110	2.57	22	25	P7601-ND◆	2.11	1.77	1.24	ECO-S1CP682BA
	8200	0.091	3.10	22	25	P7602-ND◆	2.21	1.86	1.29	ECO-S1CP822BA
	10000	0.075	3.78	25	25	P6861-ND◆	2.48	2.08	1.45	ECO-S1CP103CA
	12000	0.062	4.52	25	25	P6863-ND◆	2.63	2.22	1.54	ECO-S1CP123CA
	15000	0.053	5.26	25	30	P6865-ND	2.87	2.41	1.68	ECO-S1CP153CA
	18000	0.046	5.57	22	40	P6866-ND◆	2.96	2.49	1.73	ECO-S1CP183BA
	18000	0.046	5.57	25	30	P6867-ND◆	3.01	2.53	1.76	ECO-S1CP183CA
	22000	0.038	6.10	22	45	P6868-ND◆	3.29	2.77	1.93	ECO-S1CP223BA
	22000	0.038	6.10	30	30	P6869-ND	3.64	3.06	2.13	ECO-S1CP223DA
	27000	0.031	6.31	25	45	P6870-ND◆	3.86	3.25	2.26	ECO-S1CP273CA
	27000	0.031	6.31	30	35	P6871-ND◆	4.04	3.40	2.36	ECO-S1CP273DA
	33000	0.025	6.84	25	50	P6872-ND◆	4.25	3.58	2.49	ECO-S1CP333CA
	33000	0.025	6.84	35	30	P6873-ND◆	4.82	4.05	2.82	ECO-S1CP333EA
	39000	0.021	6.94	30	45	P6874-ND	5.07	4.26	2.97	ECO-S1CP393DA
	39000	0.021	6.94	35	35	P6875-ND◆	5.32	4.47	3.11	ECO-S1CP393EA
	47000	0.019	7.47	30	50	P6876-ND◆	5.59	4.70	3.27	ECO-S1CP473DA
	47000	0.021	7.47	35	40	P6877-ND◆	6.07	5.11	3.55	ECO-S1CP473EA
	56000	0.019	8.73	35	45	P6878-ND	6.74	5.67	3.94	ECO-S1CP563EA
	68000	0.018	9.05	35	50	P6879-ND◆	7.61	6.40	4.45	ECO-S1CP683EA
25	3300	0.161	1.68	22	25	P7603-ND◆	1.94	1.64	1.14	ECO-S1EP332BA
	4700	0.113	2.39	22	25	P7604-ND◆	2.11	1.78	1.24	ECO-S1EP472BA
	5600	0.095	2.86	22	25	P7605-ND◆	2.21	1.86	1.29	ECO-S1EP562BA
	6800	0.078	3.47	25	25	P6883-ND◆	2.48	2.09	1.45	ECO-S1EP682CA
	8200	0.065	3.57	25	25	P6885-ND◆	2.64	2.22	1.55	ECO-S1EP822CA
	10000	0.058	3.78	22	35	P6886-ND◆	2.79	2.35	1.64	ECO-S1EP103BA
	10000	0.058	3.78	30	25	P6887-ND◆	3.05	2.57	1.79	ECO-S1EP103DA
	12000	0.048	4.10	22	40	P6888-ND◆	3.03	2.55	1.78	ECO-S1EP123BA
	12000	0.048	4.10	30	30	P6889-ND◆	3.29	2.77	1.93	ECO-S1EP123DA
	15000	0.039	4.63	22	50	P6890-ND◆	3.36	2.83	1.97	ECO-S1EP153BA
	15000	0.039	4.63	30	30	P6891-ND◆	3.64	3.06	2.13	ECO-S1EP153DA
	18000	0.035	5.47	25	45	P6892-ND◆	3.83	3.22	2.24	ECO-S1EP183CA
	18000	0.035	5.47	30	35	P6893-ND◆	4.01	3.37	2.34	ECO-S1EP183DA
	22000	0.029	6.10	25	50	P6894-ND◆	4.22	3.55	2.47	ECO-S1EP223CA
	27000	0.023	6.21	30	45	P6896-ND◆	5.13	4.31	3.00	ECO-S1EP273DA
	27000	0.025	6.21	35	35	P6897-ND◆	5.38	4.53	3.15	ECO-S1EP273EA
	33000	0.020	6.84	30	50	P6898-ND◆	5.72	4.81	3.35	ECO-S1EP333DA
	33000	0.020	6.84	35	40	P6899-ND	6.20	5.21	3.63	ECO-S1EP333EA
	39000	0.019	7.36	35	45	P6900-ND◆	6.85	5.76	4.01	ECO-S1EP393EA
	47000	0.017	8.00	35	50	P6901-ND◆	7.70	6.48	4.50	ECO-S1EP473EA
35	2200	0.166	1.52	22	25	P7606-ND◆	1.95	1.65	1.15	ECO-S1VP222BA
	3300	0.111	2.29	22	25	P7607-ND◆	2.13	1.80	1.25	ECO-S1VP332BA
	3900	0.094	2.71	22	25	P7608-ND◆	2.24	1.89	1.31	ECO-S1VP392BA
	4700	0.078	3.26	25	25	P6905-ND◆	2.52	2.12	1.48	ECO-S1VP472CA
	5600	0.080	3.36	25	25	P6907-ND	2.64	2.22	1.55	ECO-S1VP562CA
	6800	0.066	3.68	22	35	P6908-ND◆	2.79	2.34	1.63	ECO-S1VP682BA
	6800	0.066	3.68	25	30	P6909-ND◆	2.89	2.43	1.69	ECO-S1VP682CA
	8200	0.057	4.00	22	40	P6910-ND◆	3.03	2.55	1.77	ECO-S1VP822BA
	8200	0.057	4.00	25	35	P6911-ND◆	3.14	2.64	1.84	ECO-S1VP822CA
	10000	0.050	4.42	22	45	P6913-ND◆	3.36	2.83	1.97	ECO-S1VP103BA
	10000	0.050	4.42	35	25	P6914-ND◆	4.00	3.37	2.34	ECO-S1VP103EA
	12000	0.044	5.05	25	45	P6915-ND◆	3.87	3.25	2.26	ECO-S1VP123CA
	12000	0.044	5.05	35	30	P6916-ND◆	4.35	3.66	2.55	ECO-S1VP123EA
	15000	0.036	5.57	25	50	P6917-ND◆	4.21	3.54	2.46	ECO-S1VP153CA
	15000	0.036	5.57	35	30	P6918-ND◆	4.89	4.11	2.86	ECO-S1VP153EA
	18000	0.030	5.68	30	45	P6919-ND	5.20	4.38	3.04	ECO-S1VP183DA
	18000	0.030	5.68	35	35	P6920-ND◆	5.45	4.59	3.19	ECO-S1VP183EA
	22000	0.026	6.10	30	50	P6921-ND◆	5.63	4.74	3.30	ECO-S1VP223DA
	22000	0.026	6.10	35	40	P6922-ND◆	6.11	5.14	3.57	ECO-S1VP223EA
	27000	0.021	6.84	35	45	P6923-ND◆	6.92	5.81	4.04	ECO-S1VP273EA
	33000	0.018	7.15	35	50	P6924-ND◆	7.85	6.60	4.59	ECO-S1VP333EA
50	1500	0.221	1.24	22	25	P7609-ND◆	2.01	1.69	1.18	ECO-S1HP152BA
	2200	0.151	1.82	22	25	P7610-ND◆	2.16	1.82	1.27	ECO-S1HP222BA
	2700	0.123	2.23	22	25	P7611-ND◆	2.31	1.95	1.36	ECO-S1HP272BA
	3300	0.100	2.73	25	25	P6928-ND◆	2.61	2.20	1.53	ECO-S1HP332CA
	3900	0.085	2.75	25	25	P6930-ND◆	2.77	2.33	1.62	ECO-S1HP392CA
	4700	0.071	3.03	22	35	P6931-ND◆	2.93	2.47	1.72	ECO-S1HP472BA
	4700	0.071	3.03	30	25	P6932-ND◆	3.21	2.71	1.88	ECO-S1HP472DA
	5600	0.059	3.42	22	40	P6933-ND◆	3.19	2.68	1.87	ECO-S1HP562BA
	5600	0.059	3.42	30	30	P6934-ND◆	3.48	2.93	2.04	ECO-S1HP562DA
	6800	0.049	3.85	22	50	P6935-ND◆	3.53	2.97	2.07	ECO-S1HP682BA
50	6800	0.049	3.85	30	30	P6936-ND◆	3.81	3.21	2.23	ECO-S1HP682DA
	8200	0.040	4.41	25	45	P6937-ND◆	4.03	3.39	2.36	ECO-S1HP822CA
	8200	0.040	4.41	30	35	P6938-ND◆	4.22	3.55	2.47	ECO-S1HP822DA
	10000	0.036	4.97	25	50	P6939-ND◆	4.42	3.72	2.59	ECO-S1HP103CA
	10000	0.036	4.97	35	30	P6940-ND◆	5.03	4.23	2.94	ECO-S1HP103EA
	12000	0.032	5.58	30	45	P6941-ND◆	5.37	4.52	3.14	ECO-S1HP123DA
	12000	0.032	5.58	35	35	P6942-ND◆	5.62	4.73	3.29	ECO-S1HP123EA
	15000	0.028	6.44	30	50	P6943-ND◆	5.74	4.82	3.36	ECO-S1HP153DA
	15000	0.028	6.44	35	40	P6944-ND◆	6.53	5.49	3.82	ECO-S1HP153EA
	18000	0.023	6.94	35	45	P6945-ND◆	7.33	6.16	4.28	ECO-S1HP183EA
	22000	0.021	7.57	35	50	P6946-ND◆	8.01	6.73	4.68	ECO-S1HP223EA
80	680	0.390	1.02	22	25	P7357-ND◆	1.97	1.66	1.16	ECO-S1KP681BA
	1000	0.265	1.51	22	25	P7358-ND◆	2.17	1.83	1.27	ECO-S1KP102BA
	1200	0.221	1.81	22	25	P7359-ND◆	2.25	1.89	1.32	ECO-S1KP122BA
	1500	0.177	2.26	22	30	P7360-ND◆	2.49	2.09	1.46	ECO-S1KP152BA
	1500	0.177	2.26	25	25	P7361-ND◆	2.56	2.16	1.50	ECO-S1KP152CA
	1800	0.147	2.52	22	35	P7362-ND	2.68	2.25	1.57	ECO-S1KP182BA
	1800	0.147	2.52	25	30	P7363-ND◆	2.73	2.30	1.60	ECO-S1KP182CA
	2200	0.121	2.73	22	40	P7364-ND◆	2.92	2.46	1.71	ECO-S1KP222BA
	2200	0.121	2.73	30	25	P7365-ND◆	3.17	2.67	1.86	ECO-S1KP222DA
	2700	0.098	2.78	22	45	P7366-ND	3.24	2.73	1.90	ECO-S1KP272BA
	2700	0.098	2.78	30	30	P7367-ND	3.47	2.92	2.03	ECO-S1KP272DA
	3300	0.085	3.21	22	50	P7368-ND◆	3.48	2.93	2.04	ECO-S1KP332BA
	3300	0.085	3.21	30	30	P7369-ND	3.77	3.17	2.21	ECO-S1KP332DA
	3900	0.077	3.59	25	45	P7370-ND◆	3.94	3.32	2.31	ECO-S1KP392CA
	3900	0.077	3.59	30	35	P7371-ND◆	4.20	3.53	2.46	ECO-S1KP392DA
	4700	0.063	4.09	25	50	P7372-ND◆	4.30	3.62	2.52	ECO-S1KP472CA
	4700	0.063	4.09	30	40	P7373-ND◆	4.59	3.86	2.69	ECO-S1KP472DA
	5600	0.056	4.55	30	45	P7374-ND◆	5.16	4.34	3.02	ECO-S1KP562DA
	5600	0.056	4.55	35	35	P7375-ND◆	5.41	4.55	3.17	ECO-S1KP562EA
	6800	0.046	5.16	30	50	P7376-ND◆	5.71	4.80	3.34	ECO-S1KP682DA
	6800	0.046	5.16	35	40	P7377-ND◆	6.23	5.23	3.64	ECO-S1KP682EA
	8200	0.038	5.83	35	50	P7378-ND◆	7.03	5.91	4.11	ECO-S1KP822EA
100	470	0.459	1.11	22	25	P7379-ND◆	2.04	1.71	1.19	ECO-S2AP471BA
	560	0.385	1.32	22	25	P7380-ND	2.13	1.79	1.25	ECO-S2AP561BA
	680	0.317	1.61	22	25	P7381-ND◆	2.26	1.90	1.32	ECO-S2AP681BA
	1000	0.216	1.96	25	25	P6948-ND◆	2.63	2.22	1.54	ECO-S2AP102CA
	1200	0.180	2.31	20	40	P6949-ND	3.22	2.71	1.89	ECO-S2AP122AA
	1200	0.180	2.31	25	30	P6990-ND	2.81	2.36	1.64	ECO-S2AP122CA
	1500	0.155	2.57	22	40	P6991-ND◆	3.04	2.56	1.78	ECO-S2AP152BA
	1500	0.155	2.57	30	25	P6992-ND◆	3.27	2.75	1.91	ECO-S2AP152DA
	1800	0.129	2.84	22	45	P6993-ND	3.36	2.83	1.97	ECO-S2AP182BA
	1800	0.138	2.84	30	30	P6101-ND	3.54	2.98	2.07	ECO-S2AP182DA
	2200	0.121	3.14	22	50	P6102-ND◆	3.67	3.09	2.15	ECO-S2AP222BA
	2200	0.121	3.14	30	30	P6103-ND	3.92	3.30	2.29	ECO-S2AP222DA
	2700	0.104	3.71	25	45	P6104-ND◆	4.33	3.64	2.53	ECO-S2AP272CA
	2700	0.104	3.71	30	35	P6105-ND	4.41	3.71	2.58	ECO-S2AP272DA
	3300	0.090	4.06	25	50	P6106-ND◆	4.80	4.03	2.81	ECO-S2AP332CA
	3300	0.090	4.06	30	40	P6107-ND◆	5.05	4.25	2.95	ECO-S2AP332DA
	3900	0.077	4.54	30	45	P6108-ND◆	5.61	4.72	3.28	ECO-S2AP392DA
	3900	0.081	4.54	35	35	P6109-ND◆	5.94	4.99	3.47	ECO-S2AP392EA
	4700	0.071	5.13	30	50	P6110-ND◆	6.28	5.28	3.67	ECO-S2AP472DA
	4700	0.071	5.13	35	40	P6111-ND	6.82	5.73	3.99	ECO-S2AP472EA
	5600	0.059	5.75	35	45	P6112-ND◆	7.64	6.42	4.47	ECO-S2AP562EA
	6800	0.049	6.60	35	50	P6113-ND◆	8.64	7.27	5.05	ECO-S2AP682EA
200	150	1.216	0.71	22	25	P7382-ND◆	1.93	1.63	1.13	ECO-S2DP151BA
	220	0.829	1.04	22	25	P7383-ND◆	2.09	1.76	1.23	ECO-S2DP221BA
	270	0.614	1.41	22	25	P6115-ND◆	2.22	1.87	1.30	ECO-S2DP271BA
	330	—	1.56	25	25	P6117-ND◆	2.44	2.06	1.43	ECO-S2DP331CA
	390	0.468	1.68	22	30	P6118-ND◆	2.49	2.10	1.46	ECO-S2DP391BA
	390	0.468	1.68	25	25	P6119-ND◆	2.59	2.18	1.51	ECO-S2DP391CA
	470	0.388	1.85	22	35	P6120-ND	2.70	2.27	1.58	ECO-S2DP471BA
	470	—	1.85	30	25	P6121-ND	3.09	2.60	1.81	ECO-S2DP471DA
	560	0.326	2.43	22	40	P6122-ND◆	2.84	2.39	1.66	ECO-S2DP561BA
	560	0.326	2.43	30	25	P6123-ND	3.33	2.80	1.95	ECO-S2DP561DA
	680	0.268	2.68	22	45	P6124-ND◆	3.10	2.61	1.82	ECO-S2DP681BA
	680	0.268	2.68	30	30	P6125-ND◆	3.60	3.03	2.11	ECO-S2DP681DA
	820	0.222	2.93	25	45	P6126-ND	3.52	2.96	2.06	ECO-S2DP821CA
	820	0.222	2.93	35	25	P6127-ND◆	4.25	3.58	2.49	ECO-S2DP821EA
	1000	0.199	3.25	25	45	P7384-ND◆	3.83	3.22	2.24	ECO-S2DP102CX
	1000	0.199	3.25	25	50	P6128-ND◆	3.99	3.35	2.33	ECO-S2DP102CA
	1000	0.199	3.25	35	30	P6129-ND◆	4.73	3.98	2.77	ECO-S2DP102EA
	1200	0.166	3.50	30	40	P7385-ND◆	4.79	4.03	2.80	ECO-S2DP122DX
	1200	0.166	3.50	30	45	P6130-ND	4.92	4.14	2.88	ECO-S2DP122DA
	1200	0.166	3.50	35	30	P7386-ND◆	5.13	4.32	3.00	ECO-S2DP122EX

◆ ***RoHS Compliant***

(Continued)

Panasonic® TS Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
200	1200	0.166	3.50	35	35	P6131-ND◆	5.26	4.43	3.08	ECO-S2DP122EA
	1500	0.144	3.87	30	45	P7387-ND	5.55	4.67	3.25	ECO-S2DP152DX
	1500	0.144	3.87	30	50	P6132-ND◆	5.77	4.85	3.37	ECO-S2DP152DA
	1500	0.144	3.87	35	35	P7388-ND◆	5.89	4.95	3.44	ECO-S2DP152EX
	1500	0.144	3.87	35	40	P6133-ND◆	6.11	5.13	3.57	ECO-S2DP152EA
	1800	0.120	4.32	35	40	P7389-ND◆	6.70	5.63	3.92	ECO-S2DP182EX
	1800	0.120	4.32	35	45	P6134-ND◆	6.77	5.69	3.96	ECO-S2DP182EA
	2200	0.098	4.92	35	45	P7390-ND	7.58	6.37	4.43	ECO-S2DP222EX
	2200	0.098	4.92	35	50	P6135-ND◆	7.77	6.54	4.55	ECO-S2DP222EA
250	120	1.520	0.71	22	25	P7391-ND	2.07	1.74	1.21	ECO-S2EP121BA
	150	1.216	0.89	22	25	P7392-ND◆	2.18	1.83	1.28	ECO-S2EP151BA
	180	0.921	1.07	22	25	P7394-ND◆	2.31	1.94	1.35	ECO-S2EP181BA
	220	0.754	1.17	22	25	P7395-ND◆	2.44	2.05	1.43	ECO-S2EP221BX
	270	0.614	1.31	22	30	P7396-ND◆	2.62	2.21	1.54	ECO-S2EP271BA
	270	0.614	1.31	25	25	P7397-ND	2.72	2.29	1.59	ECO-S2EP271CA
	330	0.553	1.75	22	35	P7398-ND◆	2.88	2.43	1.69	ECO-S2EP331BA
	330	0.502	1.75	25	30	P7399-ND◆	2.95	2.48	1.72	ECO-S2EP331CA
	390	0.468	1.91	22	40	P7400-ND◆	3.08	2.59	1.80	ECO-S2EP391BA
	390	0.425	1.91	30	25	P7401-ND◆	3.35	2.82	1.96	ECO-S2EP391DA
	470	0.388	2.11	22	45	P7402-ND◆	3.40	2.86	1.99	ECO-S2EP471BA
	470	0.353	2.11	30	25	P7403-ND◆	3.66	3.08	2.14	ECO-S2EP471DX
	560	0.326	2.25	25	40	P7404-ND◆	3.82	3.21	2.23	ECO-S2EP561CX
	560	0.326	2.25	35	25	P7405-ND◆	4.33	3.64	2.53	ECO-S2EP561EA
	680	0.268	2.50	25	45	P7406-ND◆	4.23	3.56	2.47	ECO-S2EP681CX
	680	0.268	2.50	35	30	P7407-ND◆	4.79	4.03	2.80	ECO-S2EP681EA
	820	0.222	2.50	30	40	P7408-ND◆	5.00	4.20	2.92	ECO-S2EP821DX
	820	0.222	2.77	35	30	P7409-ND◆	5.33	4.48	3.12	ECO-S2EP821EX
	1000	0.182	3.32	30	45	P7410-ND◆	5.69	4.78	3.33	ECO-S2EP102DX
	1000	0.199	3.32	35	35	P7411-ND◆	6.04	5.08	3.53	ECO-S2EP102EX
	1200	0.166	3.53	35	40	P7412-ND◆	6.87	5.78	4.02	ECO-S2EP122EX
	1500	0.133	4.04	35	50	P7413-ND◆	7.98	6.70	4.66	ECO-S2EP152EA
400	47	3.527	0.47	22	25	P7414-ND◆	2.33	1.96	1.36	ECO-S2GP470BA
	68	—	0.76	20	30	P6136-ND	2.70	2.27	1.58	ECO-S2GP680AA
	68	2.438	0.69	22	25	P6137-ND◆	2.35	1.98	1.37	ECO-S2GP680BA
	82	2.022	0.83	22	25	P6139-ND	2.48	2.09	1.45	ECO-S2GP820BA
	100	1.658	0.92	25	25	P6141-ND◆	2.71	2.28	1.59	ECO-S2GP101CA
	120	1.382	1.02	25	25	P7415-ND◆	2.91	2.45	1.70	ECO-S2GP121CX
	120	—	1.02	25	30	P6143-ND◆	2.88	2.43	1.69	ECO-S2GP121CA
	150	1.105	1.16	22	40	P6144-ND	3.17	2.67	1.86	ECO-S2GP151BA
	150	1.105	1.16	30	25	P6145-ND◆	3.39	2.85	1.98	ECO-S2GP151DA
	180	0.921	1.44	22	45	P6146-ND	3.48	2.93	2.04	ECO-S2GP181BA
	180	—	1.44	30	30	P6147-ND◆	3.68	3.10	2.16	ECO-S2GP181DA
	220	0.754	1.49	22	50	P6148-ND◆	3.93	3.31	2.30	ECO-S2GP221BA
	220	0.754	1.49	30	30	P6149-ND◆	4.08	3.43	2.39	ECO-S2GP221DA
	270	0.675	1.67	25	45	P6150-ND◆	4.42	3.72	2.59	ECO-S2GP271CA
	270	0.675	1.67	35	30	P6151-ND	4.91	4.13	2.87	ECO-S2GP271EA
	330	0.553	1.90	30	40	P6152-ND◆	5.23	4.40	3.06	ECO-S2GP331DA
	330	0.553	1.90	35	30	P7416-ND◆	5.51	4.63	3.22	ECO-S2GP331EX
	330	0.553	1.90	35	35	P6153-ND◆	5.51	4.63	3.22	ECO-S2GP331EA
	390	0.468	2.13	30	45	P6154-ND◆	6.32	5.31	3.70	ECO-S2GP391DA
	390	0.468	2.13	35	35	P7417-ND◆	6.12	5.15	3.58	ECO-S2GP391EX
	390	0.468	2.13	35	40	P6155-ND◆	6.23	5.24	3.64	ECO-S2GP391EA
	470	0.388	2.39	35	40	P7418-ND◆	7.03	5.91	4.11	ECE-S2GP471EX
	470	0.388	2.39	35	45	P6156-ND◆	6.92	5.81	4.04	ECO-S2GP471EA
	560	0.326	2.69	35	45	P7419-ND◆	7.82	6.58	4.57	ECO-S2GP561EX
	560	0.326	2.69	35	50	P6157-ND◆	8.02	6.75	4.69	ECO-S2GP561EA
	680	0.268	3.00	35	50	P7420-ND◆	9.34	7.85	5.46	ECO-S2GP681EX
450	33	6.028	0.41	22	25	P7421-ND◆	2.13	1.80	1.25	ECO-S2WP330BA
	47	4.233	0.59	22	25	P7422-ND◆	2.33	1.96	1.37	ECO-S2WP470BA
	56	2.960	0.70	20	30	P7423-ND	2.82	2.37	1.65	ECO-S2WP560AA
	56	2.960	0.70	22	25	P7424-ND◆	2.46	2.07	1.44	ECO-S2WP560BA
	82	2.022	0.83	22	30	P7425-ND◆	2.86	2.41	1.68	ECO-S2WP820BA
	82	2.022	0.83	25	25	P7426-ND◆	2.88	2.43	1.69	ECO-S2WP820CA
	100	1.658	0.93	22	35	P7427-ND◆	3.16	2.66	1.85	ECO-S2WP101BA
	120	1.382	1.04	22	40	P7428-ND◆	3.45	2.90	2.02	ECO-S2WP121BA
	120	1.382	1.04	30	25	P7429-ND◆	3.66	3.08	2.14	ECO-S2WP121DA
	150	1.105	1.19	22	50	P7430-ND◆	3.86	3.25	2.26	ECO-S2WP151BA
	150	1.105	1.19	30	30	P7431-ND	4.01	3.37	2.35	ECO-S2WP151DA
	180	0.921	1.35	25	40	P7432-ND◆	4.32	3.63	2.53	ECO-S2WP181CX
	180	0.921	1.35	35	25	P7433-ND◆	4.91	4.13	2.87	ECO-S2WP181EA
	220	0.754	1.55	25	45	P7434-ND◆	4.90	4.12	2.86	ECO-S2WP221CX
	220	0.754	1.55	35	30	P7435-ND◆	5.34	4.49	3.12	ECO-S2WP221EA
	270	0.675	1.78	30	45	P7436-ND	5.73	4.82	3.35	ECO-S2WP271DA
	270	0.614	1.78	35	30	P7437-ND◆	6.11	5.13	3.57	ECO-S2WP271EX
	330	0.553	2.01	30	50	P7438-ND◆	6.68	5.61	3.90	ECO-S2WP331DA
	330	0.553	2.01	35	35	P7439-ND◆	7.17	6.02	4.19	ECE-S2WP331EX
	390	0.510	2.24	35	45	P7440-ND◆	7.75	6.51	4.53	ECO-S2WP391EA
	470	0.423	2.53	35	45	P7441-ND◆	10.07	8.47	5.89	ECO-S2WP471EX
500	47	3.527	0.63	22	25	P7442-ND◆	3.32	2.02	1.52	ECO-S2HP470BA
	68	2.438	0.78	25	25	P7445-ND◆	3.14	2.64	1.84	ECO-S2HP680CA
	82	2.022	0.88	22	40	P7446-ND	3.37	2.84	1.97	ECO-S2HP820BA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
TSUQ Highly Miniaturized Version 85°C, 2000 Hour Life, 4.0mm Pins — RoHS Compliant										
160	560	0.355	2.25	22	25	P13765-ND	2.49	2.10	1.46	EET-UQ2C561HA
	680	0.293	2.50	22	30	P13766-ND	2.68	2.26	1.57	EET-UQ2C681HA
	820	0.243	2.75	22	35	P13767-ND	2.92	2.46	1.71	EET-UQ2C821HA
	1000	0.199	3.00	22	40	P13768-ND	3.19	2.69	1.87	EET-UQ2C102HA
	1000	0.199	3.00	25	30	P13769-ND	3.24	2.73	1.90	EET-UQ2C102JA
	1200	0.166	3.25	22	45	P13770-ND	3.53	2.97	2.07	EET-UQ2C122HA
	1200	0.166	3.25	25	35	P13771-ND	3.55	2.99	2.08	EET-UQ2C122JA
	1200	0.166	3.25	30	25	P13772-ND	4.19	3.53	2.45	EET-UQ2C122KA
	1500	0.133	3.73	22	50	P13773-ND	4.03	3.39	2.36	EET-UQ2C152HA
	1500	0.133	3.73	25	40	P13774-ND	4.30	3.61	2.51	EET-UQ2C152JA
	1500	0.133	3.73	30	30	P13775-ND	4.64	3.90	2.72	EET-UQ2C152KA
	1500	0.133	3.73	35	25	P13776-ND	4.98	4.19	2.91	EET-UQ2C152LA
	1800	0.111	4.20	25	45	P13777-ND	4.50	3.78	2.63	EET-UQ2C182JA
	1800	0.120	4.20	30	35	P13778-ND	5.12	4.30	2.99	EET-UQ2C182KA
	1800	0.111	4.20	35	30	P13779-ND	5.45	4.58	3.19	EET-UQ2C182LA
	2200	0.090	4.78	30	40	P13780-ND	5.75	4.83	3.36	EET-UQ2C222KA
	2200	0.098	4.78	35	35	P13781-ND	6.12	5.14	3.58	EET-UQ2C222LA
	2700	0.080	5.45	35	40	P13783-ND	6.94	5.84	4.06	EET-UQ2C272LA
	3300	0.070	5.75	35	45	P13784-ND	7.97	6.70	4.66	EET-UQ2C332LA
	3900	0.055	6.00	35	50	P13785-ND	9.04	7.60	5.28	EET-UQ2C392LA
200	390	0.510	1.68	22	25	P13786-ND	2.43	2.04	1.42	EET-UQ2D391HA
	470	0.423	1.85	22	30	P13787-ND	2.62	2.20	1.53	EET-UQ2D471HA
	560	0.355	2.43	22	30	P13788-ND	2.80	2.36	1.64	EET-UQ2D561HA
	560	0.355	2.43	25	25	P13789-ND	2.85	2.40	1.67	EET-UQ2D561JA
	680	0.293	2.68	22	35	P13790-ND	3.06	2.57	1.79	EET-UQ2D681HA
	680	0.293	2.68	25	30	P13791-ND	3.10	2.61	1.82	EET-UQ2D681JA
	820	0.243	2.93	22	40	P13792-ND	3.36	2.82	1.97	EET-UQ2D821HA
	820	0.243	2.93	25	30	P13793-ND	3.37	2.84	1.97	EET-UQ2D821JA
	820	0.243	2.93	30	25	P13794-ND	4.03	3.39	2.36	EET-UQ2D821KA
	1000	0.199	3.25	22	45	P13795-ND	3.72	3.13	2.17	EET-UQ2D102HA
	1000	0.199	3.25	25	35	P13796-ND	3.74	3.15	2.19	EET-UQ2D102JA
	1000	0.199	3.25	30	30	P13797-ND	4.19	3.53	2.45	EET-UQ2D102KA
	1000	0.232	3.25	35	25	P13798-ND	4.70	3.95	2.75	EET-UQ2D102LA
	1200	0.166	3.50	22	50	P13799-ND	4.16	3.50	2.43	EET-UQ2D122HA
	1200	0.166	3.50	25	40	P13800-ND	4.17	3.51	2.44	EET-UQ2D122JA
	1200	0.166	3.50	30	30	P13801-ND	4.78	4.02	2.80	EET-UQ2D122KA
	1500	0.133	3.87	25	50	P13802-ND	4.85	4.08	2.84	EET-UQ2D152JA
	1500	0.144	3.87	30	35	P13803-ND	5.41	4.55	3.17	EET-UQ2D152KA
	1500	0.144	3.87	35	30	P13804-ND	5.79	4.87	3.39	EET-UQ2D152LA
	1800	0.120	4.32	30	45	P13805-ND	6.05	5.09	3.54	EET-UQ2D182KA
	1800	0.120	4.32	35	35	P13806-ND	6.48	5.45	3.79	EET-UQ2D182LA
	2200	0.098	4.92	30	50	P13807-ND	6.97	5.86	4.08	EET-UQ2D222KA
	2200	0.105	4.92	35	40	P13808-ND	7.41	6.23	4.33	EET-UQ2D222LA
	2700	0.086	5.45	35	50	P13809-ND	8.95	7.53	5.23	EET-UQ2D272LA
250	270	0.737	1.31	22	25	P13810-ND	2.48	2.09	1.45	EET-UQ2E271HA
	330	0.603	1.75	22	30	P13811-ND	2.68	2.26	1.57	EET-UQ2E331HA
	390	0.510	1.91	22	30	P13812-ND	2.87	2.42	1.68	EET-UQ2E391HA
	390	0.510	1.91	25	25	P13813-ND	2.93	2.46	1.71	EET-UQ2E391JA
	470	0.423	2.11	22	35	P13814-ND	3.14	2.64	1.84	EET-UQ2E471HA
	470	0.423	2.11	25	30	P13815-ND	3.17	2.67	1.86	EET-UQ2E471JA
	560	0.355	2.25	22	40	P13816-ND	3.42	2.88	2.00	EET-UQ2E561HA
	560	0.355	2.25	25	30	P13817-ND	3.48	2.93	2.04	EET-UQ2E561JA
	560	0.355	2.25	30	25	P13818-ND	3.92	3.30	2.29	EET-UQ2E561KA
	680	0.293	2.50	22	45	P13819-ND	3.81	3.20	2.23	EET-UQ2E681HA
	680	0.293	2.50	25	35	P13820-ND	3.85	3.24	2.25	EET-UQ2E681JA
	680	0.293	2.50	30	30	P13822-ND	4.46	3.75	2.61	EET-UQ2E681KA
	820	0.243	2.77	22	50	P13823-ND	4.31	3.62	2.52	EET-UQ2E821HA
	820	0.243	2.77	25	40	P13824-ND	4.30	3.61	2.51	EET-UQ2E821JA
	820	0.243	2.77	30	30	P13825-ND	4.74	3.98	2.77	EET-UQ2E821KA
	820	0.243	2.77	35	25	P13826-ND	5.25	4.42	3.07	EET-UQ2E821LA
	1000	0.199	3.32	25	45	P13827-ND	4.87	4.10	2.85	EET-UQ2E102JA
	1000	0.199	3.32	30	35	P13828-ND	5.29	4.45	3.10	EET-UQ2E102KA
	1000	0.199	3.32	35	30	P13829-ND	5.83	4.90	3.41	EET-UQ2E102LA
	1200	0.166	3.53	30	40	P13830-ND	6.12	5.15	3.58	EET-UQ2E122KA
	1200	0.166	3.53	35	35	P13831-ND	6.53	5.49	3.82	EET-UQ2E122LA
	1500	0.133	4.04	30	50	P13832-ND	7.18	6.04	4.20	EET-UQ2E152KA
	1500	0.133	4.04	35	40	P13833-ND	7.51	6.31	4.39	EET-UQ2E152LA
	1800	0.111	4.55	35	45	P13834-ND	9.31	7.82	5.44	EET-UQ2E182LA
	2200	0.098	4.75	35	50	P13835-ND	10.72	9.01	6.27	EET-UQ2E222LA
350	150	1.326	1.12	22	25	P13836-ND	2.80	2.36	1.64	EET-UQ2V151HA
	180	1.105	1.22	22	30	P13837-ND	2.99	2.52	1.75	EET-UQ2V181HA
	220	0.904	1.44	22	35	P13838-ND	3.32	2.79	1.94	EET-UQ2V221HA
	270	0.737	1.66	22	40	P13839-ND	3.70	3.11	2.16	EET-UQ2V271HA
	270	0.737	1.66	25	30	P13840-ND	3.79	3.19	2.22	EET-UQ2V271JA
	330	0.603	1.88	22	45	P13841-ND	4.14	3.48	2.42	EET-UQ2V331HA
	330	0.603	1.88	25	35	P13842-ND	4.24	3.57	2.48	EET-UQ2V331JA
	390	0.510	2.06	22	50	P13843-ND	4.75	3.99	2.78	EET-UQ2V391HA
	390	0.510	2.06	25	40	P13844-ND	4.73	3.98	2.77	EET-UQ2V391JA
	390	0.510	2.06	30	30	P13845-ND	5.27	4.43	3.08	EET-UQ2V391KA
	390	0.510	2.06	35	25	P13846-ND	5.64	4.74	3.30	EET-UQ2V391LA
	470	0.423	2.40	25	45	P13847-ND	5.33	4.48	3.12	EET-UQ2V471JA
	470	0.423	2.40	30	35	P13848-ND	5.86	4.93	3.43	EET-UQ2V471KA
	470	0.423	2.40	35	30	P13849-ND	6.12	5.15	3.58	EET-UQ2V471LA
	560	0.355	2.60	25	50	P13850-ND	6.11	5.14	3.58	EET-UQ2V561JA
	560	0.355	2.60	30	40	P13851-ND	6.57	5.52	3.84	EET-UQ2V561KA
	560	0.355	2.60	35	30	P13852-ND	6.93	5.83	4.05	EET-UQ2V561LA
	680	0.293	2.96	30	45	P13853-ND	7.49	6.30	4.38	EET-UQ2V681KA
	680	0.293	2.96	35	35	P13854-ND	7.89	6.63	4.61	EET-UQ2V681LA
	820	0.243	3.25	30	50	P13855-ND	8.79	7.39	5.14	EET-UQ2V821KA
	820	0.243	3.25	35	45	P13856-ND	8.83	7.43	5.16	EET-UQ2V821LA
	1000	0.199	3.54	35	50	P13857-ND	10.38	8.72	6.07	EET-UQ2V102LA
400	120	1.658	1.02	22	25	P13858-ND	2.99	2.52	1.75	EET-UQ2G121HA
	150	1.326	1.16	22	30	P13859-ND	3.03	2.55	1.78	EET-UQ2G151HA
	180	1.105	1.44	22	30	P13860-ND	3.77	3.17	2.21	EET-UQ2G181HF

◆ **RoHS Compliant**

(Continued)

Panasonic® TS Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
400	180	1.105	1.44	22	35	P13861-ND	3.31	2.78	1.94	EET-UQ2G181HA
	220	0.904	1.49	22	35	P13862-ND	4.15	3.49	2.43	EET-UQ2G221HF
	220	0.904	1.49	22	40	P13863-ND	3.68	3.10	2.16	EET-UQ2G221HA
	220	0.904	1.49	25	30	P13864-ND	3.75	3.16	2.20	EET-UQ2G221JA
	270	0.737	1.67	22	45	P13865-ND	4.16	3.50	2.43	EET-UQ2G271HA
	270	0.737	1.67	25	35	P13866-ND	4.27	3.59	2.50	EET-UQ2G271JA
	270	0.737	1.67	30	30	P13867-ND	4.85	4.08	2.84	EET-UQ2G271KA
	270	0.737	1.67	30	25	P13868-ND	5.31	4.47	3.11	EET-UQ2G271KF
	330	0.603	1.90	22	50	P13869-ND	4.88	4.11	2.86	EET-UQ2G331HA
	330	0.603	1.90	25	40	P13870-ND	4.85	4.08	2.84	EET-UQ2G331JA
	330	0.603	1.90	30	30	P13871-ND	5.41	4.55	3.16	EET-UQ2G331KA
	330	0.603	1.90	35	25	P13872-ND	5.83	4.90	3.41	EET-UQ2G331LA
	390	0.510	2.13	25	45	P13873-ND	5.42	4.56	3.17	EET-UQ2G391JA
	390	0.510	2.13	30	35	P13874-ND	5.96	5.01	3.49	EET-UQ2G391KA
	390	0.510	2.13	35	30	P13875-ND	6.28	5.28	3.67	EET-UQ2G391LA
	470	0.423	2.39	25	50	P13876-ND	6.53	5.49	3.82	EET-UQ2G471JA
	470	0.423	2.39	30	40	P13877-ND	6.54	5.50	3.82	EET-UQ2G471KA
	470	0.423	2.39	35	30	P13878-ND	7.16	6.02	4.19	EET-UQ2G471LA
	560	0.355	2.69	30	45	P13879-ND	7.54	6.34	4.41	EET-UQ2G561KA
	560	0.355	2.69	35	35	P13880-ND	8.08	6.79	4.72	EET-UQ2G561LA
	680	0.293	2.96	35	40	P13881-ND	9.36	7.87	5.47	EET-UQ2G681LF
	680	0.293	2.96	30	50	P13882-ND	8.96	7.53	5.24	EET-UQ2G681KA
	680	0.293	2.96	35	45	P13883-ND	9.82	8.26	5.74	EET-UQ2G681LA
	820	0.243	3.25	35	45	P13884-ND	10.88	9.14	6.36	EET-UQ2G821LF
	820	0.243	3.25	35	50	P13885-ND	10.44	8.77	6.10	EET-UQ2G821LA
420	120	1.658	1.08	22	25	P13886-ND	3.64	3.07	2.13	EET-UQ2S121HA
	150	1.326	1.30	22	30	P13887-ND	3.68	3.10	2.16	EET-UQ2S151HA
	150	1.326	1.30	25	25	P13888-ND	3.75	3.15	2.19	EET-UQ2S151JA
	180	1.105	1.48	22	35	P13889-ND	4.01	3.37	2.35	EET-UQ2S181HA
	180	1.105	1.48	25	30	P13890-ND	4.11	3.45	2.40	EET-UQ2S181JA
	220	0.904	1.65	22	40	P13891-ND	4.42	3.72	2.59	EET-UQ2S221HF
	220	0.904	1.65	25	35	P13892-ND	4.53	3.81	2.65	EET-UQ2S221JA
	220	0.904	1.65	30	25	P13893-ND	5.08	4.27	2.97	EET-UQ2S221KA
	270	0.737	1.94	22	45	P13894-ND	4.99	4.20	2.92	EET-UQ2S271HF
	270	0.737	1.94	25	40	P13895-ND	5.04	4.24	2.95	EET-UQ2S271JA
	270	0.737	1.94	30	30	P13896-ND	5.18	4.35	3.03	EET-UQ2S271KA
	330	0.603	2.17	25	45	P13897-ND	5.68	4.77	3.32	EET-UQ2S331JA
	330	0.603	2.17	30	30	P13898-ND	6.64	5.59	3.88	EET-UQ2S331KF
	330	0.603	2.17	35	25	P13899-ND	6.25	5.25	3.65	EET-UQ2S331LA
	390	0.510	2.27	25	50	P13900-ND	6.81	5.73	3.98	EET-UQ2S391JA
	390	0.510	2.27	30	35	P13901-ND	6.92	5.82	4.05	EET-UQ2S391KA
	390	0.510	2.27	35	30	P13902-ND	7.12	5.98	4.16	EET-UQ2S391LA
	470	0.423	2.61	30	40	P13903-ND	7.76	6.52	4.53	EET-UQ2S471KF
	470	0.423	2.61	35	35	P13904-ND	8.00	6.72	4.68	EET-UQ2S471LA
	560	0.355	2.82	30	45	P13905-ND	8.77	7.37	5.13	EET-UQ2S561KF
	560	0.355	2.82	35	40	P13906-ND	9.13	7.67	5.34	EET-UQ2S561LA
	680	0.293	3.11	30	50	P13907-ND	12.39	10.42	7.24	EET-UQ2S681KF
	680	0.293	3.11	35	45	P13908-ND	11.96	10.05	6.99	EET-UQ2S681LA
	820	0.243	3.30	35	50	P13909-ND	13.57	11.40	7.93	EET-UQ2S821LA
450	82	2.426	0.83	22	25	P13910-ND	2.69	2.27	1.58	EET-UQ2W820HA
	100	1.989	0.93	22	25	P13911-ND	2.94	2.47	1.72	EET-UQ2W101HA
	120	1.658	1.04	22	30	P13912-ND	3.13	2.64	1.83	EET-UQ2W121HA
	150	1.326	1.19	22	30	P13913-ND	3.89	3.28	2.28	EET-UQ2W151HF
	150	1.326	1.19	22	35	P13914-ND	3.52	2.96	2.06	EET-UQ2W151HA
	150	1.326	1.19	25	25	P13915-ND	4.04	3.39	2.36	EET-UQ2W151JF
	150	1.326	1.19	25	30	P13916-ND	3.58	3.01	2.10	EET-UQ2W151JA
	180	1.105	1.35	22	35	P13917-ND	4.36	3.66	2.55	EET-UQ2W181HF
	180	1.105	1.35	22	40	P13918-ND	3.91	3.29	2.29	EET-UQ2W181HA
	180	1.105	1.35	25	30	P13919-ND	3.96	3.33	2.32	EET-UQ2W181JA
	220	0.904	1.55	22	45	P13920-ND	4.40	3.70	2.58	EET-UQ2W221HA
	220	0.904	1.45	25	35	P13921-ND	4.86	4.08	2.84	EET-UQ2W221JF
	220	0.904	1.55	25	40	P13922-ND	4.46	3.75	2.61	EET-UQ2W221JA
	220	0.904	1.55	30	25	P13923-ND	5.29	4.44	3.09	EET-UQ2W221KF
	220	0.904	1.55	30	30	P13924-ND	4.85	4.08	2.84	EET-UQ2W221KA
	220	0.904	1.55	35	25	P13925-ND	5.24	4.41	3.07	EET-UQ2W221LA
	270	0.737	1.78	22	50	P13926-ND	5.20	4.37	3.04	EET-UQ2W271HA
	270	0.737	1.78	25	40	P13927-ND	5.19	4.37	3.04	EET-UQ2W271JA
	270	0.737	1.78	30	30	P13928-ND	5.53	4.65	3.23	EET-UQ2W271KA
	270	0.737	1.78	35	25	P13929-ND	5.82	4.89	3.40	EET-UQ2W271LF
	330	0.603	2.01	25	45	P13930-ND	6.20	5.21	3.63	EET-UQ2W331JF
	330	0.603	2.01	30	35	P13931-ND	6.65	5.59	3.89	EET-UQ2W331KF
	330	0.603	2.01	30	40	P13932-ND	6.50	5.47	3.80	EET-UQ2W331KA
	330	0.603	2.01	35	30	P13933-ND	6.87	5.77	4.01	EET-UQ2W331LA
	390	0.510	2.24	30	40	P13934-ND	7.22	6.07	4.22	EET-UQ2W391KA
	390	0.510	2.24	35	30	P13935-ND	8.11	6.82	4.74	EET-UQ2W391LF
	390	0.510	2.24	35	35	P13936-ND	7.65	6.43	4.47	EET-UQ2W391LA
	470	0.423	2.53	30	45	P13937-ND	8.21	6.90	4.80	EET-UQ2W471KA
	470	0.423	2.53	35	35	P13938-ND	9.00	7.57	5.26	EET-UQ2W471LF
	470	0.423	2.53	35	40	P13939-ND	8.54	7.17	4.99	EET-UQ2W471LA
	560	0.355	2.82	30	50	P13940-ND	9.47	7.96	5.54	EET-UQ2W561KA
	560	0.355	2.82	35	40	P13941-ND	10.14	8.52	5.93	EET-UQ2W561LF
	560	0.355	2.82	35	45	P13942-ND	9.69	8.14	5.66	EET-UQ2W561LA
	680	0.293	3.02	35	45	P13943-ND	12.45	10.46	7.28	EET-UQ2W681LF
TSUQ Highly Miniaturized Version 85°C, 2000 Hour Life, 6.3mm Pins										
160	560	0.355	2.25	22	25	P11839-ND◆	2.50	2.10	1.46	EET-UQ2C561BA
	680	0.293	2.50	22	30	P11840-ND◆	2.69	2.26	1.58	EET-UQ2C681BA
	820	0.243	2.75	22	35	P11841-ND◆	2.93	2.46	1.71	EET-UQ2C821BA
	1000	0.199	3.00	22	40	P11821-ND◆	3.20	2.69	1.87	EET-UQ2C102BA
	1000	0.199	3.00	25	30	P11822-ND◆	3.25	2.74	1.90	EET-UQ2C102CA
	1200	0.166	3.25	22	45	P11823-ND◆	3.54	2.98	2.07	EET-UQ2C122BA
	1200	0.166	3.25	25	35	P11824-ND	3.56	2.99	2.08	EET-UQ2C122CA
	1200	0.166	3.25	30	25	P11825-ND◆	4.20	3.54	2.46	EET-UQ2C122DA
	1500	0.133	3.73	22	50	P11826-ND◆	4.04	3.40	2.37	EET-UQ2C152BA
	1500	0.133	3.73	25	40	P11827-ND◆	4.31	3.62	2.52	EET-UQ2C152CA
	1500	0.133	3.73	30	30	P11828-ND	4.66	3.92	2.72	EET-UQ2C152DA
	1500	0.133	3.73	35	25	P11829-ND	4.99	4.20	2.92	EET-UQ2C152EA
	1800	0.111	4.20	25	45	P11830-ND◆	4.51	3.80	2.64	EET-UQ2C182CA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
160	1800	0.120	4.20	30	35	P11831-ND◆	5.13	4.31	3.00	EET-UQ2C182DA
	1800	0.111	4.20	35	30	P11832-ND	5.46	4.59	3.19	EET-UQ2C182EA
	2200	0.090	4.78	30	40	P11833-ND◆	5.76	4.85	3.37	EET-UQ2C222DA
	2200	0.098	4.78	35	35	P11834-ND◆	6.14	5.16	3.59	EET-UQ2C222EA
	2700	0.074	5.45	30	45	P11835-ND◆	6.55	5.51	3.83	EET-UQ2C272DA
	2700	0.080	5.45	35	40	P11836-ND	6.97	5.86	4.07	EET-UQ2C272EA
	3300	0.070	5.75	35	45	P11837-ND	7.99	6.72	4.67	EET-UQ2C332EA
	3900	0.055	6.00	35	50	P11838-ND◆	9.06	7.62	5.30	EET-UQ2C392EA
200	390	0.510	1.68	22	25	P11856-ND◆	2.43	2.05	1.43	EET-UQ2D391BA
	470	0.423	1.85	22	30	P11857-ND	2.62	2.21	1.54	EET-UQ2D471BA
	560	0.355	2.43	22	30	P11858-ND	2.81	2.36	1.64	EET-UQ2D561BA
	560	0.355	2.43	25	25	P11859-ND	2.86	2.41	1.68	EET-UQ2D561CA
	680	0.293	2.68	22	35	P11860-ND◆	3.07	2.58	1.80	EET-UQ2D681BA
	680	0.293	2.68	25	30	P11861-ND◆	3.11	2.62	1.82	EET-UQ2D681CA
	820	0.243	2.93	25	30	P11862-ND◆	3.38	2.85	1.98	EET-UQ2D821CA
	820	0.243	2.93	30	25	P11863-ND◆	4.04	3.40	2.36	EET-UQ2D821DA
	1000	0.199	3.25	22	45	P11842-ND◆	3.72	3.13	2.18	EET-UQ2D102BA
	1000	0.199	3.25	25	35	P11843-ND◆	3.75	3.16	2.20	EET-UQ2D102CA
	1000	0.199	3.25	30	30	P11844-ND◆	4.20	3.54	2.46	EET-UQ2D102DA
	1000	0.232	3.25	35	25	P11845-ND◆	4.71	3.96	2.76	EET-UQ2D102EA
	1200	0.166	3.50	25	40	P11846-ND◆	4.18	3.52	2.45	EET-UQ2D122CA
	1200	0.166	3.50	30	30	P11847-ND◆	4.80	4.04	2.81	EET-UQ2D122DA
	1500	0.133	3.87	25	50	P11848-ND◆	4.86	4.09	2.85	EET-UQ2D152CA
	1500	0.144	3.87	30	35	P11849-ND◆	5.43	4.56	3.18	EET-UQ2D152DA
	1500	0.144	3.87	35	30	P11850-ND◆	5.81	4.89	3.40	EET-UQ2D152EA
	1800	0.120	4.32	30	45	P11851-ND◆	6.07	5.10	3.55	EET-UQ2D182DA
	1800	0.120	4.32	35	35	P11852-ND	6.50	5.46	3.80	EET-UQ2D182EA
	2200	0.098	4.92	30	50	P11853-ND◆	7.00	5.88	4.09	EET-UQ2D222DA
	2200	0.105	4.92	35	40	P11854-ND◆	7.44	6.25	4.35	EET-UQ2D222EA
	2700	0.086	5.45	35	50	P11855-ND◆	8.98	7.55	5.25	EET-UQ2D272EA
250	270	0.737	1.31	22	25	P11872-ND	2.49	2.10	1.46	EET-UQ2E271BA
	330	0.603	1.75	22	30	P11873-ND◆	2.69	2.26	1.58	EET-UQ2E331BA
	390	0.510	1.91	22	30	P11874-ND	2.88	2.43	1.69	EET-UQ2E391BA
	390	0.510	1.91	25	25	P11875-ND	2.93	2.47	1.72	EET-UQ2E391CA
	470	0.423	2.11	22	35	P11876-ND◆	3.15	2.65	1.84	EET-UQ2E471BA
	470	0.423	2.11	25	30	P11877-ND◆	3.18	2.68	1.86	EET-UQ2E471CA
	560	0.355	2.25	22	40	P11878-ND	3.43	2.89	2.01	EET-UQ2E561BA
	560	0.355	2.25	25	30	P11879-ND◆	3.49	2.93	2.04	EET-UQ2E561CA
	560	0.355	2.25	30	25	P11880-ND	3.93	3.31	2.30	EET-UQ2E561DA
	680	0.293	2.50	22	45	P11881-ND	3.82	3.21	2.24	EET-UQ2E681BA
	680	0.293	2.50	25	35	P11882-ND◆	3.86	3.25	2.26	EET-UQ2E681CA
	680	0.293	2.50	30	30	P11883-ND◆	4.48	3.77	2.62	EET-UQ2E681DA
	820	0.243	2.77	22	50	P11884-ND	4.32	3.63	2.53	EET-UQ2E821BA
	820	0.243	2.77	25	40	P11885-ND◆	4.31	3.62	2.52	EET-UQ2E821CA
	820	0.243	2.77	30	30	P11886-ND◆	4.75	4.00	2.78	EET-UQ2E821DA
	820	0.243	2.77	35	25	P11887-ND◆	5.27	4.43	3.08	EET-UQ2E821EA
	1000	0.199	3.32	25	45	P11864-ND	4.89	4.11	2.86	EET-UQ2E102CA
	1000	0.199	3.32	30	35	P11865-ND◆	5.31	4.46	3.10	EET-UQ2E102DA
	1000	0.199	3.32	35	30	P11866-ND◆	5.85	4.92	3.42	EET-UQ2E102EA
	1200	0.166	3.53	30	40	P11867-ND◆	6.14	5.16	3.59	EET-UQ2E122DA
	1200	0.166	3.53	35	35	P11868-ND◆	6.55	5.51	3.83	EET-UQ2E122EA
	1500	0.133	4.04	30	50	P11869-ND◆	7.20	6.05	4.21	EET-UQ2E152DA
	1500	0.133	4.04	35	40	P11870-ND◆	7.53	6.33	4.40	EET-UQ2E152EA
	1800	0.111	4.55	35	45	P11871-ND◆	9.34	7.85	5.46	EET-UQ2E182EA
350	150	1.326	1.12	22	25	P11912-ND	2.81	2.37	1.65	EET-UQ2V151BA
	180	1.105	1.22	22	30	P11913-ND◆	3.00	2.52	1.76	EET-UQ2V181BA
	220	0.904	1.44	22	35	P11914-ND◆	3.32	2.80	1.95	EET-UQ2V221BA
	270	0.737	1.66	22	40	P11915-ND	3.71	3.12	2.17	EET-UQ2V271BA
	270	0.737	1.66	25	30	P11916-ND◆	3.80	3.20	2.22	EET-UQ2V271CA
	330	0.603	1.88	22	45	P11917-ND◆	4.15	3.49	2.43	EET-UQ2V331BA
	330	0.603	1.88	25	35	P11918-ND◆	4.26	3.58	2.49	EET-UQ2V331CA
	390	0.510	2.06	22	50	P11919-ND	4.76	4.01	2.79	EET-UQ2V391BA
	390	0.510	2.06	25	40	P11920-ND	4.74	3.99	2.78	EET-UQ2V391CA
	390	0.510	2.06	30	30	P11921-ND	5.29	4.44	3.09	EET-UQ2V391DA
	390	0.510	2.06	35	25	P11922-ND	5.65	4.75	3.31	EET-UQ2V391EA
	470	0.423	2.40	25	45	P11923-ND	5.35	4.50	3.13	EET-UQ2V471CA
	470	0.423	2.40	30	35	P11924-ND	5.88	4.94	3.44	EET-UQ2V471DA
	470	0.423	2.40	35	30	P11925-ND◆	6.14	5.16	3.59	EET-UQ2V471EA
	560	0.355	2.60	25	50	P11926-ND	6.13	5.16	3.59	EET-UQ2V561CA
	560	0.355	2.60	30	40	P11927-ND	6.59	5.54	3.85	EET-UQ2V561DA
	560	0.355	2.60	35	30	P11928-ND◆	6.95	5.84	4.06	EET-UQ2V561EA
	680	0.293	2.96	30	45	P11929-ND◆	7.52	6.32	4.39	EET-UQ2V681DA
	680	0.293	2.96	35	35	P11930-ND◆	7.91	6.65	4.62	EET-UQ2V681EA
	820	0.243	3.25	30	50	P11931-ND◆	8.81	7.41	5.15	EET-UQ2V821DA
	820	0.243	3.25	35	45	P11932-ND◆	8.86	7.45	5.18	EET-UQ2V821EA
	1000	0.199	3.54	35	50	P11911-ND◆	10.41	8.75	6.08	EET-UQ2V102EA
400	120	1.658	1.02	22	25	P11888-ND◆	3.00	2.52	1.76	EET-UQ2G121BA
	150	1.326	1.16	22	30	P11889-ND◆	3.04	2.56	1.78	EET-UQ2G151BA
	180	1.105	1.30	22	30	P13320-ND◆	3.78	3.18	2.21	EET-UQ2G181BF
	180	1.105	1.44	22	35	P11890-ND◆	3.32	2.79	1.94	EET-UQ2G181BA
	220	0.904	1.40	22	35	P13321-ND◆	4.16	3.50	2.44	EET-UQ2G221BF
	220	0.904	1.49	22	40	P11891-ND◆	3.70	3.11	2.16	EET-UQ2G221BA
	220	0.904	1.49	25	30	P11892-ND◆	3.76	3.16	2.20	EET-UQ2G221CA
	270	0.737	1.67	22	45	P11893-ND◆	4.17	3.51	2.44	EET-UQ2G271BA
	270	0.737	1.67	25	35	P11894-ND	4.28	3.60	2.50	EET-UQ2G271CA
	270	0.737	1.67	30	30	P11895-ND◆	4.86	4.09	2.85	EET-UQ2G271DA
	330	0.603	1.90	22	50	P11896-ND◆	4.90	4.12	2.87	EET-UQ2G331BA
	330	0.603	1.90	25	40	P11897-ND◆	4.86	4.09	2.85	EET-UQ2G331CA
	330	0.603	1.90	30	30	P11898-ND◆	5.42	4.56	3.17	EET-UQ2G331DA
	330	0.603	1.90	35	25	P11899-ND◆	5.84	4.91	3.42	EET-UQ2G331EA
	390	0.510	2.13	25	45	P11900-ND	5.44	4.57	3.18	EET-UQ2G391CA
	390	0.510	2.13	30	35	P11901-ND	5.98	5.03	3.50	EET-UQ2G391DA
	390	0.510	2.13	35	30	P11902-ND◆	6.29	5.29	3.68	EET-UQ2G391EA
	470	0.423	2.39	25	50	P11903-ND◆	6.55	5.51	3.83	EET-UQ2G471CA
	470	0.423	2.39	30	40	P11904-ND◆	6.56	5.51	3.84	EET-UQ2G471DA
	470	0.423	2.39	35	30	P11905-ND◆	7.19	6.04	4.20	EET-UQ2G471EA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
400	560	0.355	2.69	30	45	P11906-ND◆	7.56	6.36	4.42	EET-UQ2G561DA
	560	0.355	2.69	35	35	P11907-ND◆	8.10	6.81	4.74	EET-UQ2G561EA
	680	0.293	2.70	35	40	P13322-ND◆	9.39	7.89	5.49	EET-UQ2G681EF
	680	0.293	2.96	30	50	P11908-ND◆	8.99	7.55	5.25	EET-UQ2G681DA
	680	0.293	2.96	35	45	P11909-ND◆	9.85	8.28	5.76	EET-UQ2G681EA
	820	0.243	2.96	35	45	P13323-ND◆	10.91	9.17	6.38	EET-UQ2G821EF
	820	0.243	3.25	35	50	P11910-ND◆	10.47	8.80	6.12	EET-UQ2G821EA
420	150	1.326	1.18	22	30	P13324-ND◆	3.69	3.11	2.16	EET-UQ2S151BA
	150	1.326	1.18	25	25	P13325-ND◆	3.76	3.16	2.20	EET-UQ2S151CA
	180	1.105	1.40	22	35	P13326-ND◆	4.02	3.38	2.35	EET-UQ2S181BA
	220	0.904	1.52	22	40	P13327-ND◆	4.43	3.73	2.59	EET-UQ2S221BA
	220	0.904	1.52	25	35	P13328-ND◆	4.54	3.82	2.66	EET-UQ2S221CA
	220	0.904	1.52	30	25	P13329-ND◆	5.09	4.28	2.98	EET-UQ2S221DA
	270	0.737	1.73	22	45	P13330-ND◆	5.00	4.21	2.93	EET-UQ2S271BF
	270	0.737	1.73	25	40	P13331-ND◆	5.05	4.25	2.95	EET-UQ2S271CA
	330	0.603	1.95	25	45	P13332-ND◆	5.69	4.79	3.33	EET-UQ2S331CA
	330	0.603	1.95	30	30	P13333-ND◆	6.26	5.27	3.66	EET-UQ2S331DF
	390	0.510	2.17	25	50	P13334-ND◆	6.83	5.74	3.99	EET-UQ2S391CA
	390	0.510	2.17	30	35	P13335-ND◆	6.94	5.83	4.06	EET-UQ2S391DA
	390	0.510	2.17	35	30	P13336-ND◆	7.14	6.00	4.17	EET-UQ2S391EA
	470	0.423	2.44	30	40	P13337-ND◆	7.78	6.54	4.55	EET-UQ2S471DA
	470	0.423	2.44	35	35	P13338-ND◆	8.02	6.74	4.69	EET-UQ2S471EA
	560	0.355	2.74	30	45	P13339-ND◆	8.80	7.39	5.14	EET-UQ2S561DA
	560	0.355	2.74	35	40	P13340-ND◆	9.15	7.69	5.35	EET-UQ2S561EA
	680	0.293	3.11	35	45	P13341-ND◆	12.00	10.08	7.01	EET-UQ2S681EA
450	82	2.426	0.83	22	25	P11955-ND◆	2.70	2.27	1.58	EET-UQ2W820BA
	100	1.989	0.93	22	25	P11933-ND◆	2.94	2.48	1.72	EET-UQ2W101BA
	120	1.658	1.04	22	30	P11934-ND◆	3.14	2.64	1.84	EET-UQ2W121BA
	150	1.326	1.19	22	35	P11935-ND◆	3.53	2.97	2.07	EET-UQ2W151BA
	150	1.326	1.19	25	30	P11936-ND◆	3.59	3.02	2.10	EET-UQ2W151CA
	180	1.105	1.35	22	40	P11937-ND◆	3.92	3.30	2.30	EET-UQ2W181BA
	180	1.105	1.35	25	30	P11938-ND◆	3.97	3.34	2.32	EET-UQ2W181CA
	220	0.904	1.45	25	35	P13342-ND◆	4.87	4.10	2.85	EET-UQ2W221CF
	220	0.904	1.55	22	45	P11939-ND◆	4.41	3.71	2.58	EET-UQ2W221BA
	220	0.904	1.55	25	40	P11940-ND◆	4.48	3.77	2.62	EET-UQ2W221CA
	220	0.904	1.55	30	30	P11941-ND◆	4.86	4.09	2.85	EET-UQ2W221DA
	220	0.904	1.55	35	25	P11942-ND◆	5.26	4.42	3.08	EET-UQ2W221EA
	270	0.737	1.78	22	50	P11943-ND◆	5.21	4.38	3.05	EET-UQ2W271BA
	270	0.737	1.78	25	40	P11944-ND◆	5.21	4.38	3.05	EET-UQ2W271CA
	270	0.737	1.78	30	30	P11945-ND◆	5.55	4.66	3.24	EET-UQ2W271DA
	330	0.603	1.88	30	35	P13343-ND◆	6.67	5.61	3.90	EET-UQ2W331DF
	330	0.603	2.01	25	50	P11946-ND◆	6.22	5.23	3.64	EET-UQ2W331CA
	330	0.603	2.01	30	40	P11947-ND◆	6.52	5.48	3.81	EET-UQ2W331DA
	330	0.603	2.01	35	30	P11948-ND◆	6.89	5.79	4.03	EET-UQ2W331EA
	390	0.510	2.24	30	40	P11949-ND	7.24	6.09	4.23	EET-UQ2W391DA
	390	0.510	2.24	35	35	P11950-ND◆	7.67	6.45	4.48	EET-UQ2W391EA
	470	0.423	2.53	30	45	P11951-ND◆	8.23	6.92	4.81	EET-UQ2W471DA
	470	0.423	2.53	35	40	P11952-ND◆	8.56	7.20	5.00	EET-UQ2W471EA
	560	0.355	2.82	30	50	P11953-ND◆	9.50	7.98	5.55	EET-UQ2W561DA
	560	0.355	2.82	35	45	P11954-ND◆	9.72	8.17	5.68	EET-UQ2W561EA
	680	0.293	3.02	35	50	P13344-ND◆	12.49	10.49	7.30	EET-UQ2W681EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
TSNH Long Life and High Ripple Current 105°C, 2000 Hour Life										
16	4700	—	2.0	22	31.5	P6450-ND	2.22	1.87	1.30	ECE-S1CG472E
	33000	—	4.8	35	51	P6455-ND	7.55	6.34	4.41	ECE-S1CG333Z
25	3300	—	1.7	22	31.5	P6456-ND	2.19	1.84	1.28	ECE-S1EG332E
	6800	—	2.6	25	40	P6458-ND	3.11	2.61	1.82	ECE-S1EG682M
	10000	—	3.1	25	50	P6459-ND	3.85	3.24	2.25	ECE-S1EG103N
	22000	—	4.0	35	51	P6461-ND	7.84	6.59	4.58	ECE-S1EG223Z
35	15000	—	3.9	35	51	P6467-ND	6.66	5.60	3.89	ECE-S1VG153Z
50	10000	—	3.7	35	51	P6473-ND	6.36	5.35	3.72	ECE-S1HG103Z
63	3300	—	2.5	25	50	P6536-ND	3.70	3.11	2.16	ECE-S1JG332N
100	470	—	1.2	22	31.5	P6474-ND	2.37	1.99	1.39	ECE-S2AG471E
250	330	—	1.25	25	50	P6581-ND	3.99	3.36	2.34	ECE-S2EG331N
	680	—	1.8	35	51	P6583-ND	6.45	5.42	3.77	ECE-S2EG681Z
400	220	—	1.0	30	50	P6587-ND	5.77	4.85	3.37	ECE-S2GG221U
TSHA Miniaturized Size, Long Life and High Ripple Current 105°C, 3000 Hour Life										
16	3300	0.176	1.30	22	25	P7461-ND◆	1.85	1.56	1.09	ECO-S1CA332BA
	4700	0.123	1.52	22	25	P7462-ND	1.99	1.67	1.16	ECO-S1CA472BA
	6800	0.085	2.20	22	25	P6436-ND◆	2.15	1.81	1.26	ECO-S1CA682BA
	8200	0.071	2.40	22	30	P6441-ND◆	2.33	1.96	1.37	ECO-S1CA822BA
	10000	0.066	2.60	25	25	P6460-ND◆	2.56	2.16	1.50	ECO-S1CA103CA
	12000	0.055	2.90	22	35	P6468-ND◆	2.68	2.25	1.57	ECO-S1CA123BA
	12000	0.055	2.90	30	25	P6477-ND	2.95	2.48	1.72	ECO-S1CA123DA
	15000	0.046	3.20	30	30	P6541-ND◆	3.22	2.71	1.88	ECO-S1CA153DA
	18000	0.040	3.50	22	45	P6543-ND	3.15	2.65	1.84	ECO-S1CA183BA
	18000	0.040	3.50	35	25	P6545-ND◆	3.80	3.19	2.22	ECO-S1CA183EA
	22000	0.033	3.80	25	45	P6547-ND◆	3.65	3.07	2.14	ECO-S1CA223CA
	22000	0.033	3.80	35	30	P6550-ND◆	4.15	3.49	2.43	ECO-S1CA223EA
	27000	0.028	4.20	25	50	P6552-ND◆	4.03	3.39	2.36	ECO-S1CA273CA
	27000	0.028	4.20	35	30	P6558-ND	4.58	3.86	2.68	ECO-S1CA273EA
	33000	0.023	4.70	30	45	P6559-ND◆	4.88	4.10	2.85	ECO-S1CA333DA
	33000	0.023	4.70	35	35	P6560-ND◆	5.14	4.32	3.00	ECO-S1CA333EA
	39000	0.022	5.10	30	50	P6561-ND◆	5.31	4.47	3.11	ECO-S1CA393DA
	39000	0.022	5.10	35	40	P6562-ND◆	5.78	4.86	3.38	ECO-S1CA393EA
	47000	0.020	5.50	35	45	P6563-ND◆	6.43	5.41	3.76	ECO-S1CA473EA
	56000	0.019	6.00	35	50	P6999-ND	6.84	5.75	4.00	ECO-S1CA563EA
25	2200	0.241	1.30	22	25	P7463-ND◆	1.84	1.55	1.08	ECO-S1EA222BA
	3300	0.161	1.62	22	25	P7464-ND◆	1.98	1.67	1.16	ECO-S1EA332BA
	4700	0.106	2.00	20	30	P6998-ND	2.61	2.19	1.53	ECO-S1EA472AA
	4700	0.106	2.00	22	25	P6566-ND◆	2.16	1.82	1.26	ECO-S1EA472BA
	5600	0.089	2.20	20	35	P6567-ND	2.75	2.31	1.61	ECO-S1EA562AA
25	5600	0.089	2.20	22	30	P6997-ND	2.34	1.97	1.37	ECO-S1EA562BA
	6800	0.073	2.40	25	25	P6570-ND◆	2.56	2.16	1.50	ECO-S1EA682CA
	8200	0.061	2.70	22	35	P6571-ND◆	2.69	2.26	1.58	ECO-S1EA822BA
	8200	0.061	2.70	30	25	P6572-ND	2.95	2.48	1.73	ECO-S1EA822DA
	10000	0.051	3.00	22	40	P6573-ND◆	2.86	2.40	1.67	ECO-S1EA103BA
	10000	0.051	3.00	30	30	P6574-ND◆	3.19	2.68	1.87	ECO-S1EA103DA
	12000	0.044	3.20	22	45	P6575-ND◆	3.21	2.70	1.88	ECO-S1EA123BA
	12000	0.044	3.20	35	25	P6576-ND◆	3.76	3.16	2.20	ECO-S1EA123EA
	15000	0.036	3.60	25	45	P6577-ND◆	3.66	3.08	2.14	ECO-S1EA153CA
	15000	0.036	3.60	35	30	P6578-ND◆	4.15	3.49	2.43	ECO-S1EA153EA
	18000	0.030	3.90	25	50	P6996-ND◆	3.97	3.34	2.33	ECO-S1EA183CA
	18000	0.030	3.90	35	35	P6590-ND◆	4.56	3.84	2.67	ECO-S1EA183EA
	22000	0.025	4.30	30	45	P6591-ND	4.82	4.05	2.82	ECO-S1EA223DA
	22000	0.025	4.30	35	35	P6592-ND◆	5.07	4.26	2.96	ECO-S1EA223EA
	27000	0.021	4.80	35	45	P6593-ND◆	5.79	4.87	3.38	ECO-S1EA273EA
	33000	0.018	5.50	35	50	P6594-ND◆	6.52	5.48	3.81	ECO-S1EA333EA
35	1500	0.287	1.10	22	25	P7465-ND◆	1.89	1.59	1.11	ECO-S1VA152BA
	2200	0.196	1.48	22	25	P7466-ND◆	2.05	1.72	1.20	ECO-S1VA222BA
	3300	0.121	1.90	22	25	P6596-ND◆	2.26	1.90	1.32	ECO-S1VA332BA
	3900	0.111	2.00	20	35	P6597-ND	2.85	2.39	1.67	ECO-S1VA392AA
	3900	0.111	2.00	22	30	P6598-ND◆	2.43	2.04	1.42	ECO-S1VA392BA
	4700	0.088	2.20	25	25	P6600-ND◆	2.69	2.26	1.57	ECO-S1VA472CA
	5600	0.074	2.40	22	35	P6658-ND◆	2.82	2.37	1.65	ECO-S1VA562BA
	5600	0.074	2.40	30	25	P6659-ND	3.05	2.57	1.79	ECO-S1VA562DA
	6800	0.061	2.60	22	40	P6660-ND◆	3.09	2.60	1.81	ECO-S1VA682BA
	6800	0.061	2.60	30	30	P6661-ND◆	3.31	2.79	1.94	ECO-S1VA682DA
	8200	0.051	2.90	22	50	P6662-ND◆	3.31	2.79	1.94	ECO-S1VA822BA
	8200	0.051	2.90	35	25	P6663-ND◆	3.92	3.30	2.29	ECO-S1VA822EA
	10000	0.041	3.20	25	45	P6664-ND◆	3.85	3.24	2.25	ECO-S1VA103CA
	10000	0.041	3.20	35	30	P6665-ND◆	4.29	3.61	2.51	ECO-S1VA103EA
	12000	0.035	3.50	25	50	P6666-ND◆	4.21	3.54	2.46	ECO-S1VA123CA
	12000	0.035	3.50	35	30	P6667-ND◆	4.77	4.01	2.79	ECO-S1VA123EA
	15000	0.030	3.90	30	45	P6668-ND◆	5.18	4.36	3.03	ECO-S1VA153DA
	15000	0.030	3.90	35	35	P6669-ND◆	5.44	4.57	3.18	ECO-S1VA153EA
	18000	0.028	4.30	35	40	P6670-ND◆	6.20	5.22	3.63	ECO-S1VA183EA
	22000	0.023	5.00	35	50	P6671-ND◆	6.81	5.72	3.98	ECO-S1VA223EA
50	1000	0.232	0.90	22	25	P7467-ND◆	1.91	1.61	1.12	ECO-S1HA102BA
	1500	0.155	1.25	22	25	P7468-ND◆	2.05	1.72	1.20	ECO-S1HA152BA
	1800	0.129	1.50	22	25	P6673-ND◆	2.15	1.81	1.26	ECO-S1HA182BA
	2200	0.105	1.70	22	30	P6675-ND◆	2.34	1.97	1.37	ECO-S1HA222BA
	2700	0.086	1.80	25	25	P6677-ND◆	2.58	2.17	1.51	ECO-S1HA272CA
	3300	0.070	2.00	22	35	P6678-ND◆	2.73	2.29	1.60	ECO-S1HA332BA
	3300	0.070	2.00	25	30	P6679-ND◆	2.77	2.34	1.63	ECO-S1HA332CA
	3900	0.064	2.20	22	40	P6680-ND◆	2.92	2.46	1.71	ECO-S1HA392BA
	3900	0.064	2.20	30	25	P6681-ND◆	3.18	2.68	1.86	ECO-S1HA392DA
	4700	0.053	2.50	22	45	P6682-ND◆	3.21	2.70	1.88	ECO-S1HA472BA
	4700	0.053	2.50	35	25	P6683-ND◆	3.77	3.17	2.21	ECO-S1HA472EA
	5600	0.050	2.80	22	50	P6684-ND◆	3.47	2.92	2.03	ECO-S1HA562BA
	5600	0.050	2.80	35	30	P6685-ND◆	4.07	3.42	2.38	ECO-S1HA562EA
	6800	0.046	3.30	25	50	P6686-ND◆	3.91	3.29	2.29	ECO-S1HA682CA
	6800	0.046	3.30	35	30	P6687-ND◆	4.46	3.75	2.61	ECO-S1HA682EA
	8200	0.038	3.60	30	45	P6688-ND◆	4.70	3.95	2.75	ECO-S1HA822DA
	8200	0.038	3.60	35	35	P6689-ND◆	4.94	4.16	2.89	ECO-S1HA822EA
	10000	0.033	4.00	30	50	P6690-ND◆	5.19	4.36	3.04	ECO-S1HA103DA
	10000	0.033	4.00	35	40	P6691-ND◆	5.66	4.76	3.31	ECO-S1HA103EA
	12000	0.028	4.50	35	45	P6692-ND◆	6.27	5.27	3.67	ECO-S1HA123EA
	15000	0.022	4.80	35	50	P6693-ND◆	7.20	6.05	4.21	ECO-S1HA153EA
63	680	0.414	0.90	22	25	P7469-ND◆	1.89	1.59	1.11	ECO-S1JA681BA
	1000	0.282	1.17	22	25	P7470-ND◆	2.01	1.69	1.18	ECO-S1JA102BA
	1200	0.235	1.40	22	25	P7472-ND◆	2.11	1.77	1.24	ECO-S1JA122BA
	1500	0.188	1.50	20	35	P7473-ND	2.71	2.28	1.59	ECO-S1JA152AA
	1500	0.188	1.50	22	30	P7474-ND◆	2.30	1.94	1.35	ECO-S1JA152BA
	1800	0.157	1.70	22	30	P7475-ND	2.44	2.06	1.43	ECO-S1JA182BA
	1800	0.157	1.70	25	25	P7476-ND◆	2.51	2.11	1.47	ECO-S1JA182CA
	2200	0.128	2.00	22	35	P7477-ND◆	2.64	2.22	1.55	ECO-S1JA222BA
	2200	0.128	2.00	25	30	P7478-ND◆	2.69	2.26	1.58	ECO-S1JA222CA
	2700	0.104	2.20	22	40	P7479-ND◆	2.87	2.42	1.68	ECO-S1JA272BA
	2700	0.104	2.20	30	25	P7480-ND◆	3.13	2.63	1.83	ECO-S1JA272DA
	3300	0.090	2.50	22	50	P7481-ND◆	3.14	2.64	1.84	ECO-S1JA332BA
	3300	0.090	2.50	35	25	P7482-ND◆	3.73	3.14	2.18	ECO-S1JA332EA
	3900	0.077	2.70	25	45	P7483-ND	3.52	2.96	2.06	ECO-S1JA392CA
	3900	0.077	2.70	35	30	P7484-ND◆	4.01	3.37	2.34	ECO-S1JA392EA
	4700	0.063	3.00	25	50	P7485-ND◆	3.82	3.22	2.24	ECO-S1JA472CA
	4700	0.063	3.00	35	30	P7486-ND◆	4.37	3.68	2.56	ECO-S1JA472EA
	5600	0.053	3.30	30	45	P7487-ND◆	4.56	3.83	2.67	ECO-S1JA562DA
	5600	0.053	3.30	35	35	P7488-ND	4.81	4.04	2.81	ECO-S1JA562EA
	6800	0.049	3.60	30	50	P7489-ND◆	5.02	4.22	2.93	ECO-S1JA682DA
	6800	0.049	3.60	35	40	P7490-ND◆	5.49	4.61	3.21	ECO-S1JA682EA
	8200	0.040	3.90	35	45	P7491-ND◆	6.07	5.11	3.55	ECO-S1JA822EA
	10000	0.033	4.40	35	50	P7492-ND◆	6.85	5.76	4.01	ECO-S1JA103EA
80	470	0.388	0.80	22	25	P7493-ND	1.91	1.61	1.12	ECO-S1KA471BA
	680	0.268	1.00	22	25	P7494-ND◆	2.07	1.74	1.21	ECO-S1KA681BA
	820	0.222	1.20	20	30	P7495-ND	2.67	2.24	1.56	ECO-S1KA821AA
	820	0.222	1.20	22	25	P7496-ND◆	2.15	1.81	1.26	ECO-S1KA821BA
	1000	0.182	1.30	22	30	P7497-ND◆	2.43	2.04	1.42	ECO-S1KA102BA
	1000	0.182	1.30	25	25	P7498-ND◆	2.51	2.11	1.47	ECO-S1KA102CA
	1200	0.166	1.50	22	30	P7499-ND◆	2.54	2.14	1.49	ECO-S1KA122BA
	1200	0.166	1.50	25	25	P7500-ND◆	2.57	2.16	1.50	ECO-S1KA122CA
	1500	0.133	1.70	22	35	P7501-ND◆	2.74	2.31	1.60	ECO-S1KA152BA
	1500	0.133	1.70	25	30	P7502-ND	2.91	2.45	1.70	ECO-S1KA152CA
	1800	0.111	1.80	22	40	P7503-ND	2.90	2.44	1.70	ECO-S1KA182BA
	1800	0.111	1.80	30	25	P7504-ND◆	3.15	2.65	1.84	ECO-S1KA182DA
	2200	0.090	2.10	22	45	P7505-ND◆	3.20	2.70	1.88	ECO-S1KA222BA
	2200	0.090	2.10	35	25	P7506-ND◆	4.03	3.39	2.36	ECO-S1KA222EA
	2700	0.074	2.40	25	45	P7507-ND	3.72	3.13	2.18	ECO-S1KA272CA
	2700	0.074	2.40	35	30	P7508-ND◆	4.41	3.71	2.58	ECO-S1KA272EA

◆ RoHS Compliant

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 200	Panasonic Part No.
80	3300	0.065	2.60	25	50	P7509-ND◆	4.08	3.43	2.39	ECO-S1KA332CA
	3300	0.065	2.60	35	30	P7510-ND◆	4.64	3.91	2.72	ECO-S1KA332EA
	4700	0.049	3.30	30	50	P7511-ND◆	5.34	4.49	3.12	ECO-S1KA472DA
	4700	0.049	3.30	35	40	P7512-ND◆	5.82	4.90	3.41	ECO-S1KA472EA
	5600	0.050	3.70	35	45	P7513-ND◆	6.44	5.41	3.77	ECO-S1KA562EA
	6800	0.041	3.90	35	50	P7514-ND◆	7.24	6.09	4.24	ECO-S1KA682EA
100	330	0.553	0.80	22	25	P7515-ND◆	2.00	1.68	1.17	ECO-S2AA331BA
	470	0.388	0.92	22	25	P7516-ND◆	2.04	1.71	1.19	ECO-S2AA471BA
	560	0.296	1.10	20	30	P6694-ND	2.57	2.16	1.50	ECO-S2AA561AA
	560	0.296	1.10	22	25	P6695-ND◆	2.14	1.80	1.25	ECO-S2AA561BA
	820	0.202	1.40	25	25	P6697-ND◆	2.54	2.14	1.49	ECO-S2AA821CA
	1000	0.182	1.70	25	30	P6699-ND◆	2.71	2.28	1.59	ECO-S2AA102CA
	1200	0.152	1.80	22	40	P6700-ND	3.04	2.56	1.78	ECO-S2AA122BA
	1200	0.152	1.80	30	25	P6701-ND	3.10	2.61	1.82	ECO-S2AA122DA
	1500	0.122	2.10	22	45	P6702-ND◆	3.37	2.84	1.98	ECO-S2AA152BA
	1500	0.122	2.10	35	25	P6712-ND◆	3.74	3.14	2.19	ECO-S2AA152EA
	1800	0.111	2.30	25	45	P6728-ND	3.53	2.97	2.07	ECO-S2AA182CA
	1800	0.111	2.30	35	30	P6806-ND◆	4.03	3.39	2.36	ECO-S2AA182EA
	2200	0.090	2.60	25	50	P6994-ND	3.98	3.35	2.33	ECO-S2AA222CA
	2200	0.090	2.60	35	30	P6995-ND◆	4.44	3.74	2.60	ECO-S2AA222EA
	2700	0.080	2.90	30	45	P6807-ND	4.64	3.90	2.71	ECO-S2AA272DA
	2700	0.080	2.90	35	35	P6808-ND◆	4.95	4.16	2.90	ECO-S2AA272EA
	3300	0.075	3.20	30	50	P6809-ND◆	5.33	4.48	3.12	ECO-S2AA332DA
	3300	0.075	3.20	35	40	P6810-ND◆	5.67	4.76	3.31	ECO-S2AA332EA
	3900	0.064	3.60	35	45	P6811-ND	6.73	5.66	3.93	ECO-S2AA392EA
	4700	0.053	3.80	35	50	P6812-ND◆	7.67	6.45	4.49	ECO-S2AA472EA
200	100	1.658	0.50	22	25	P7517-ND◆	1.83	1.54	1.07	ECO-S2DA101BA
	150	1.105	0.68	22	25	P7518-ND◆	2.01	1.69	1.18	ECO-S2DA151BA
	220	0.754	1.00	22	25	P6814-ND◆	2.21	1.86	1.30	ECO-S2DA221BA
	270	0.614	1.10	25	25	P6816-ND◆	2.49	2.10	1.46	ECO-S2DA271CA
	330	0.502	1.20	25	25	P6818-ND◆	2.67	2.25	1.56	ECO-S2DA331CA
	390	0.425	1.30	22	35	P6819-ND◆	2.71	2.28	1.59	ECO-S2DA391BA
	390	0.425	1.30	30	25	P6820-ND◆	3.02	2.54	1.77	ECO-S2DA391DA
	470	0.353	1.40	22	40	P6821-ND◆	2.92	2.45	1.71	ECO-S2DA471BA
	470	0.353	1.40	30	25	P6822-ND◆	3.26	2.74	1.91	ECO-S2DA471DA
	560	0.296	1.50	22	45	P6823-ND◆	3.17	2.66	1.85	ECO-S2DA561BA
	560	0.296	1.50	30	30	P6824-ND	3.48	2.93	2.04	ECO-S2DA561DA
	680	0.244	1.70	25	40	P6825-ND◆	3.59	3.02	2.10	ECO-S2DA681CA
	680	0.244	1.70	30	30	P6826-ND◆	3.83	3.22	2.24	ECO-S2DA681DA
	820	0.222	2.00	25	50	P6829-ND◆	4.11	3.46	2.41	ECO-S2DA821CA
	820	0.222	2.00	35	30	P6830-ND◆	4.56	3.83	2.67	ECO-S2DA821EA
	1000	0.199	2.20	30	45	P6831-ND◆	4.77	4.01	2.79	ECO-S2DA102DA
	1000	0.199	2.20	35	35	P6832-ND◆	5.16	4.34	3.02	ECO-S2DA102EA
	1200	0.166	2.30	30	50	P6833-ND◆	5.41	4.55	3.17	ECO-S2DA122DA
	1200	0.166	2.30	35	40	P6834-ND◆	5.75	4.84	3.36	ECO-S2DA122EA
	1500	0.144	2.50	35	50	P6835-ND◆	6.68	5.62	3.91	ECO-S2DA152EA
400	33	4.521	0.30	22	25	P7519-ND◆	2.08	1.75	1.22	ECO-S2GA330BA
	47	2.822	0.43	22	25	P7520-ND◆	2.26	1.90	1.33	ECO-S2GA470BA
	56	2.368	0.51	22	25	P6837-ND◆	2.38	2.00	1.39	ECO-S2GA560BA
	68	1.950	0.56	25	25	P6839-ND◆	2.57	2.16	1.51	ECO-S2GA680CA
	82	1.617	0.64	20	40	P6840-ND	3.12	2.62	1.82	ECO-S2GA820AA
	82	1.617	0.64	25	25	P6841-ND	2.76	2.32	1.61	ECO-S2GA820CA
	100	1.326	0.69	22	35	P6842-ND◆	2.96	2.50	1.74	ECO-S2GA101BA
	100	1.326	0.69	25	30	P6843-ND	2.98	2.50	1.74	ECO-S2GA101CA
	120	1.105	0.75	22	40	P6844-ND◆	3.20	2.69	1.87	ECO-S2GA121BA
	120	1.105	0.75	30	25	P6845-ND	3.41	2.87	2.00	ECO-S2GA121DA
	150	0.884	0.82	22	50	P6846-ND◆	3.65	3.07	2.13	ECO-S2GA151BA
	150	0.884	0.82	30	30	P6847-ND	3.78	3.18	2.21	ECO-S2GA151DA
	180	0.737	0.95	25	45	P6848-ND◆	4.00	3.37	2.34	ECO-S2GA181CA
	180	0.737	0.95	35	25	P6849-ND◆	4.53	3.81	2.65	ECO-S2GA181EA
	220	0.603	1.10	25	50	P6850-ND◆	4.59	3.86	2.69	ECO-S2GA221CA
	220	0.603	1.10	35	30	P6851-ND	5.01	4.21	2.93	ECO-S2GA221EA
	270	0.491	1.20	30	45	P6852-ND◆	5.33	4.48	3.12	ECO-S2GA271DA
	270	0.491	1.20	35	35	P6853-ND◆	5.64	4.74	3.30	ECO-S2GA271EA
	330	0.402	1.35	30	50	P6854-ND◆	6.18	5.20	3.62	ECO-S2GA331DA
	330	0.402	1.35	35	40	P6855-ND◆	7.10	5.97	4.15	ECO-S2GA331EA
	390	0.340	1.55	35	45	P6856-ND◆	8.14	6.85	4.76	ECO-S2GA391EA
	470	0.282	1.75	35	50	P6857-ND	9.14	7.68	5.34	ECO-S2GA471EA
TSHB Compact Size, Long Life and High Ripple Current 105°C, 3000 Hour Life										
200	390	0.510	1.30	22	30	P10106-ND◆	2.64	2.22	1.55	ECO-S2DB391BA
	390	0.510	1.30	25	25	P10107-ND◆	2.81	2.37	1.65	ECO-S2DB391CA
	470	0.423	1.40	22	35	P10108-ND◆	2.88	2.42	1.69	ECO-S2DB471BA
	470	0.423	1.40	25	30	P10109-ND◆	2.99	2.52	1.75	ECO-S2DB471CA
	560	0.355	1.50	30	25	P10110-ND	3.48	2.93	2.04	ECO-S2DB561DA
	820	0.263	2.00	25	45	P10111-ND	4.00	3.36	2.34	ECO-S2DB821CA
	820	0.263	2.00	35	25	P10112-ND◆	4.56	3.83	2.67	ECO-S2DB821EA
	1000	0.216	2.20	25	50	P10113-ND◆	4.57	3.84	2.67	ECO-S2DB102CA
	1000	0.216	2.20	35	30	P10114-ND◆	5.08	4.27	2.97	ECO-S2DB102EA
	1200	0.193	2.30	30	40	P10115-ND	5.00	4.21	2.93	ECO-S2DB122DA
	1200	0.193	2.30	35	35	P10116-ND◆	5.68	4.78	3.32	ECO-S2DB122EA
	1500	0.155	2.50	30	50	P10117-ND	6.17	5.19	3.61	ECO-S2DB152DA
	1500	0.155	2.50	35	40	P10118-ND◆	6.50	5.46	3.80	ECO-S2DB152EA
	1800	0.129	2.70	35	45	P10119-ND◆	7.89	6.63	4.61	ECO-S2DB182EA
	2200	0.105	2.90	35	50	P10120-ND◆	8.57	7.21	5.01	ECO-S2DB222EA
250	330	0.502	1.20	25	30	P10121-ND◆	3.20	2.69	1.87	ECO-S2EB331CA
	390	0.425	1.30	30	25	P10122-ND◆	3.68	3.10	2.15	ECO-S2EB391DA
	470	0.353	1.40	22	50	P10123-ND◆	3.84	3.23	2.25	ECO-S2EB471BA
	470	0.353	1.40	30	30	P10124-ND◆	4.03	3.39	2.36	ECO-S2EB471DA
	560	0.296	1.50	25	45	P10125-ND◆	4.25	3.58	2.49	ECO-S2EB561CA
	560	0.296	1.50	35	25	P10126-ND◆	4.80	4.04	2.81	ECO-S2EB561EA
	680	0.244	1.70	25	50	P10127-ND◆	4.90	4.12	2.86	ECO-S2EB681CA
	820	0.202	2.00	30	45	P10129-ND◆	5.65	4.75	3.30	ECO-S2EB821DA
	820	0.202	2.00	35	35	P10130-ND◆	5.96	5.02	3.49	ECO-S2EB821EA
	1000	0.199	2.20	30	50	P10131-ND◆	6.55	5.51	3.83	ECO-S2EB102DA
	1000	0.199	2.20	35	40	P10132-ND◆	6.90	5.80	4.03	ECO-S2EB102EA
	1200	0.166	2.30	35	45	P10133-ND◆	8.03	6.75	4.70	ECO-S2EB122EA
	1500	0.144	2.50	35	50	P10134-ND◆	9.30	7.82	5.44	ECO-S2EB152EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 200	Panasonic Part No.
400	82	2.022	0.64	22	30	P10135-ND◆	2.70	2.27	1.58	ECO-S2GB820BA
	100	1.658	0.69	22	30	P10136-ND◆	2.95	2.49	1.73	ECO-S2GB101BA
	100	1.658	0.69	25	25	P10137-ND◆	3.01	2.53	1.76	ECO-S2GB101CA
	120	1.382	0.75	22	35	P10138-ND◆	3.22	2.71	1.89	ECO-S2GB121BA
	120	1.382	0.75	25	30	P10139-ND◆	3.22	2.71	1.89	ECO-S2GB121CA
	150	1.105	0.82	22	40	P10140-ND◆	3.62	3.04	2.12	ECO-S2GB151BA
	150	1.105	0.82	30	25	P10141-ND◆	3.84	3.23	2.25	ECO-S2GB151DA
	180	0.921	0.95	22	45	P10142-ND◆	4.00	3.36	2.34	ECO-S2GB181BA
	180	0.921	0.95	30	30	P10143-ND◆	4.17	3.51	2.44	ECO-S2GB181DA
	220	0.754	1.10	25	45	P10144-ND◆	4.52	3.80	2.65	ECO-S2GB221CA
	220	0.754	1.10	35	25	P10145-ND◆	5.08	4.28	2.97	ECO-S2GB221EA
	270	0.614	1.20	25	50	P10146-ND◆	5.22	4.39	3.05	ECO-S2GB271CA
	270	0.614	1.20	35	30	P10147-ND	5.63	4.74	3.29	ECO-S2GB271EA
	330	0.502	1.35	30	45	P10148-ND◆	6.14	5.16	3.59	ECO-S2GB331DA
	330	0.502	1.35	35	35	P10149-ND◆	6.47	5.44	3.78	ECO-S2GB331EA
	390	0.425	1.55	30	50	P10150-ND◆	7.01	5.90	4.10	ECO-S2GB391DA
	390	0.425	1.55	35	40	P10151-ND◆	7.36	6.18	4.30	ECO-S2GB391EA
	470	0.353	1.75	35	45	P10152-ND◆	9.65	8.11	5.64	ECO-S2GB471EA
	560	0.296	1.80	35	50	P10153-ND◆	9.64	8.10	5.63	ECO-S2GB561EA
450	82	2.022	0.56	22	30	P10154-ND◆	3.14	2.64	1.84	ECO-S2WB820BA
	100	1.658	0.64	22	35	P10155-ND◆	3.50	2.94	2.05	ECO-S2WB101BA
	100	1.658	0.64	25	30	P10156-ND◆	3.43	2.88	2.01	ECO-S2WB101CA
	120	1.382	0.72	22	40	P10157-ND◆	3.82	3.21	2.24	ECO-S2WB121BA
	120	1.382	0.72	25	35	P10158-ND◆	3.76	3.16	2.20	ECO-S2WB121CA
	150	1.105	0.79	22	50	P10159-ND	4.40	3.70	2.57	ECO-S2WB151BA
	150	1.105	0.79	30	30	P10160-ND◆	4.54	3.82	2.66	ECO-S2WB151DA
	180	0.921	0.87	25	45	P10161-ND◆	4.91	4.13	2.87	ECO-S2WB181CA
	180	0.921	0.87	30	35	P10162-ND	5.08	4.27	2.97	ECO-S2WB181DA
	220	0.754	1.00	25	50	P10163-ND◆	5.71	4.80	3.34	ECO-S2WB221CA
	220	0.754	1.00	30	40	P10164-ND	5.79	4.87	3.39	ECO-S2WB221DA
	270	0.614	1.19	30	45	P10165-ND◆	6.69	5.62	3.91	ECO-S2WB271DA
	270	0.614	1.19	35	35	P10166-ND◆	7.01	5.89	4.10	ECO-S2WB271EA
	330	0.502	1.38	30	50	P10167-ND◆	7.92	6.66	4.63	ECO-S2WB331DA
	330	0.502	1.38	35	40	P10168-ND◆	8.16	6.86	4.77	ECO-S2WB331EA
	390	0.425	1.55	35	45	P10169-ND◆	9.12	7.67	5.33	ECO-S2WB391EA
	470	0.353	1.74	35	50	P10170-ND	16.44	13.81	9.61	ECO-S2WB471EA
TSHC Highly Miniaturized Version 105°C, 2000 Hour Life, 4.0mm Pins — RoHS Compliant										
160	470	0.423	1.40	22	25	P13944-ND	2.37	1.99	1.39	EET-HC2C471HA
	560	0.355	1.50	22	30	P13945-ND	2.52	2.12	1.48	EET-HC2C561HA
	680	0.293	1.70	22	30	P13946-ND	2.70	2.27	1.58	EET-HC2C681HA
	680	0.293	1.70	25	25	P13947-ND	2.77	2.33	1.62	EET-HC2C681JA
	820	0.243	2.00	22	35	P13948-ND	3.20	2.69	1.87	EET-HC2C821HA
	820	0.243	2.00	25	30	P13949-ND	2.99	2.52	1.75	EET-HC2C821JA
	1000	0.199	2.20	22	40	P13950-ND	3.23	2.72	1.89	EET-HC2C102HA
	1000	0.199	2.20	25	35	P13951-ND	3.27	2.75	1.91	EET-HC2C102JA
	1000	0.216	2.20	30	25	P13952-ND	3.92	3.30	2.29	EET-HC2C102KA
	1200	0.166	2.30	22	45	P13953-ND	3.55	2.99	2.08	EET-HC2C122HA
	1200	0.166	2.30	25	40	P13954-ND	3.64	3.07	2.13	EET-HC2C122JA
	1200	0.166	2.30	30	30	P13955-ND	4.46	3.75	2.61	EET-HC2C122KA
	1200	0.180	2.30	35	25	P13956-ND	4.93	4.14	2.88	EET-HC2C122LA
	1500	0.133	2.50	25	45	P13957-ND	4.10	3.45	2.40	EET-HC2C152JA
	1500	0.133	2.50	30	35	P13958-ND	4.72	3.97	2.76	EET-HC2C152KA
	1500	0.155	2.50	35	30	P13959-ND	5.18	4.35	3.03	EET-HC2C152LA
	1800	0.111	2.70	25	50	P13960-ND	4.63	3.90	2.71	EET-HC2C182JA
	1800	0.111	2.70	30	40	P13961-ND	5.19	4.37	3.04	EET-HC2C182KA
	1800	0.120	2.70	35	30	P13962-ND	5.64	4.74	3.30	EET-HC2C182LA
	2200	0.090	2.90	30	45	P13963-ND	5.88	4.94	3.44	EET-HC2C222KA
	2200	0.098	2.90	35	35	P13964-ND	6.36	5.35	3.72	EET-HC2C222LA
	2700	0.080	3.10	30	50	P13965-ND	6.71	5.64	3.93	EET-HC2C272KA
	2700	0.086	3.10	35	40	P13966-ND	7.37	6.20	4.31	EET-HC2C272LA
	3300	0.070	3.30	35	50	P13967-ND	9.19	7.72	5.37	EET-HC2C332LA
200	390	0.510	1.31	22	25	P13968-ND	2.53	2.13	1.48	EET-HC2D391HA
	470	0.423	1.45	22	30	P13969-ND	2.72	2.29	1.60	EET-HC2D471HA
	470	0.423	1.45	25	25	P13970-ND	3.18	2.67	1.86	EET-HC2D471JF
	560	0.355	1.67	22	30	P13971-ND	2.93	2.47	1.72	EET-HC2D561HA
	680	0.293	1.75	22	40	P13972-ND	3.21	2.70	1.88	EET-HC2D681HA
	680	0.293	1.75	25	30	P13973-ND	3.25	2.74	1.90	EET-HC2D681JA
	820	0.243	2.04	22	45	P13974-ND	3.54	2.98	2.07	EET-HC2D821HA
	820	0.243	2.04	25	35	P13975-ND	3.56	2.99	2.08	EET-HC2D821JA
	820	0.243	2.04	30	25	P13976-ND	4.21	3.54	2.46	EET-HC2D821KA
	1000	0.199	2.30	22	50	P13977-ND	4.01	3.37	2.35	EET-HC2D102HA
	1000	0.199	2.30	25	40	P13978-ND	4.63	3.89	2.71	EET-HC2D102JF
	1000	0.199	2.30	25	45	P13979-ND	4.00	3.37	2.34	EET-HC2D102JA
	1000	0.199	2.30	30	30	P13980-ND	4.62	3.89	2.70	EET-HC2D102KA
	1000	0.216	2.30	35	25	P13981-ND	4.95	4.17	2.90	EET-HC2D102LA
	1200	0.166	2.65	25	45	P13982-ND	5.20	4.37	3.04	EET-HC2D122JF
	1200	0.166	2.65	25	50	P13983-ND	4.51	3.79	2.64	EET-HC2D122JA
	1200	0.166	2.65	30	35	P13984-ND	5.10	4.29	2.98	EET-HC2D122KA
	1200	0.180	2.65	35	30	P13985-ND	5.42	4.56	3.17	EET-HC2D122LA
	1500	0.133	2.80	30	40	P13986-ND	5.78	4.86	3.38	EET-HC2D152KA
	1500	0.144	2.80	35	30	P13987-ND	6.15	5.17	3.60	EET-HC2D152LA
	1800	0.111	3.08	30	45	P13988-ND	6.48	5.44	3.79	EET-HC2D182KA
	1800	0.129	3.08	35	40	P13989-ND	7.53	6.33	4.40	EET-HC2D182LA
	2200	0.090	3.48	30	50	P13990-ND	7.49	6.30	4.38	EET-HC2D222KA
	2200	0.098	3.48	35	45	P13991-ND	8.98	7.55	5.25	EET-HC2D222LA
250	270	0.614	1.10	22	25	P13992-ND	2.53	2.13	1.48	EET-HC2E271HA
	330	0.502	1.20	22	30	P13993-ND	2.75	2.31	1.61	EET-HC2E331HA
	330	0.502	1.20	25	25	P13994-ND	2.79	2.35	1.64	EET-HC2E331JA
	390	0.425	1.20	22	30	P13995-ND	3.47	2.92	2.03	EET-HC2E391HF
	390	0.425	1.30	22	35	P13996-ND	2.96	2.49	1.73	EET-HC2E391HA
	390	0.425	1.30	25	25	P13997-ND	2.99	2.52	1.75	EET-HC2E391JA
	470	0.353	1.20	22	35	P13998-ND	3.75	3.16	2.20	EET-HC2E471HF
	470	0.353	1.40	22	40	P13999-ND	3.22	2.71	1.88	EET-HC2E471HA
	470	0.353	1.40	25	30	P14000-ND	3.28	2.76	1.92	EET-HC2E471JA
	470	0.353	1.40	30	25	P14001-ND	3.88	3.27	2.27	EET-HC2E471KA

◆ **RoHS Compliant**

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 200	Panasonic Part No.
250	560	0.296	1.40	22	40	P14002-ND	4.08	3.43	2.39	EET-HC2E561HF
	560	0.296	1.50	22	45	P14003-ND	3.54	2.98	2.07	EET-HC2E561HA
	560	0.296	1.50	25	35	P14004-ND	3.57	3.00	2.09	EET-HC2E561JA
	560	0.296	1.50	30	25	P14005-ND	4.22	3.55	2.47	EET-HC2E561KA
	680	0.244	1.50	22	45	P14006-ND	4.56	3.84	2.67	EET-HC2E681HF
	680	0.244	1.70	22	50	P14007-ND	3.98	3.35	2.33	EET-HC2E681HA
	680	0.244	1.70	25	40	P14008-ND	3.97	3.34	2.32	EET-HC2E681JA
	680	0.244	1.70	30	30	P14009-ND	4.59	3.86	2.68	EET-HC2E681KA
	680	0.244	1.70	35	25	P14010-ND	5.25	4.41	3.07	EET-HC2E681LA
	820	0.202	2.00	25	45	P14011-ND	4.46	3.75	2.61	EET-HC2E821JA
	820	0.202	2.00	30	35	P14012-ND	5.07	4.26	2.96	EET-HC2E821KA
	820	0.202	2.00	35	30	P14013-ND	5.64	4.74	3.30	EET-HC2E821LA
	1000	0.166	2.20	25	50	P14014-ND	6.15	5.17	3.59	EET-HC2E102JF
	1000	0.166	2.20	30	40	P14015-ND	5.67	4.77	3.31	EET-HC2E102KA
	1000	0.166	2.20	35	30	P14016-ND	6.84	5.75	4.00	EET-HC2E102LA
	1200	0.138	2.30	30	45	P14017-ND	6.37	5.36	3.73	EET-HC2E122KA
	1200	0.138	2.30	35	35	P14018-ND	7.89	6.63	4.61	EET-HC2E122LA
	1500	0.111	2.50	35	45	P14019-ND	9.77	8.21	5.71	EET-HC2E152LA
	1800	0.092	2.50	35	45	P14020-ND	10.28	8.64	6.01	EET-HC2E182LF
	1800	0.092	2.70	35	50	P14021-ND	10.85	9.12	6.34	EET-HC2E182LA
350	120	1.382	0.75	22	25	P14022-ND	2.72	2.29	1.59	EET-HC2V121HA
	150	1.105	0.82	22	30	P14023-ND	3.00	2.53	1.76	EET-HC2V151HA
	180	0.921	0.90	22	30	P14024-ND	3.59	3.02	2.10	EET-HC2V181HA
	180	0.921	0.90	25	25	P14025-ND	3.64	3.06	2.13	EET-HC2V181JA
	220	0.754	1.00	22	35	P14026-ND	3.69	3.10	2.16	EET-HC2V221HA
	220	0.754	1.00	25	30	P14027-ND	3.70	3.12	2.17	EET-HC2V221JA
	270	0.614	1.10	22	40	P14028-ND	4.61	3.87	2.70	EET-HC2V271HF
	270	0.614	1.10	25	35	P14029-ND	4.13	3.47	2.42	EET-HC2V271JA
	270	0.614	1.10	30	25	P14030-ND	4.86	4.08	2.84	EET-HC2V271KA
	330	0.502	1.20	22	45	P14031-ND	4.72	3.97	2.76	EET-HC2V331HF
	330	0.502	1.20	25	40	P14032-ND	5.33	4.48	3.12	EET-HC2V331JA
	330	0.502	1.20	30	30	P14033-ND	6.00	5.04	3.51	EET-HC2V331KA
	390	0.425	1.30	25	45	P14034-ND	5.24	4.41	3.07	EET-HC2V391JA
	390	0.425	1.30	30	30	P14035-ND	6.29	5.28	3.68	EET-HC2V391KF
	390	0.425	1.30	30	35	P14036-ND	5.86	4.93	3.43	EET-HC2V391KA
	470	0.353	1.40	25	50	P14037-ND	6.14	5.16	3.59	EET-HC2V471JA
	470	0.353	1.40	30	35	P14038-ND	6.54	5.50	3.82	EET-HC2V471KF
	470	0.353	1.40	35	30	P14039-ND	6.77	5.69	3.96	EET-HC2V471LA
	560	0.296	1.50	30	40	P14040-ND	7.86	6.60	4.59	EET-HC2V561KF
	560	0.296	1.50	30	45	P14041-ND	7.40	6.22	4.33	EET-HC2V561KA
	560	0.296	1.50	35	35	P14042-ND	7.58	6.37	4.43	EET-HC2V561LA
	680	0.244	1.70	30	45	P14043-ND	9.07	7.62	5.30	EET-HC2V681KF
	680	0.244	1.70	30	50	P14044-ND	8.59	7.22	5.02	EET-HC2V681KA
	680	0.244	1.70	35	40	P14045-ND	8.63	7.26	5.05	EET-HC2V681LA
	820	0.202	1.90	35	45	P14046-ND	9.89	8.31	5.78	EET-HC2V821LA
	1000	0.202	1.90	35	50	P14047-ND	11.68	9.82	6.83	EET-HC2V102LF
400	100	1.824	0.70	22	25	P14048-ND	2.77	2.33	1.62	EET-HC2G101HA
	120	1.520	0.75	22	30	P14049-ND	3.01	2.53	1.76	EET-HC2G121HA
	150	1.216	0.88	22	30	P14050-ND	3.39	2.85	1.99	EET-HC2G151HA
	150	1.216	0.88	25	25	P14051-ND	3.82	3.21	2.24	EET-HC2G151JF
	180	1.013	0.95	22	35	P14052-ND	3.75	3.16	2.20	EET-HC2G181HA
	180	1.013	0.95	25	30	P14053-ND	3.77	3.17	2.21	EET-HC2G181JA
	220	0.829	1.00	22	40	P14054-ND	4.38	3.68	2.56	EET-HC2G221HF
	220	0.829	1.10	22	45	P14055-ND	4.59	3.86	2.69	EET-HC2G221HA
	220	0.829	1.10	25	35	P14056-ND	4.17	3.51	2.44	EET-HC2G221JA
	220	0.829	1.10	30	25	P14057-ND	4.53	3.81	2.65	EET-HC2G221KA
	270	0.675	1.10	22	45	P14058-ND	5.31	4.46	3.10	EET-HC2G271HF
	270	0.675	1.22	22	50	P14059-ND	4.79	4.03	2.80	EET-HC2G271HA
	270	0.675	1.22	25	40	P14060-ND	4.83	4.07	2.83	EET-HC2G271JA
	270	0.675	1.22	30	30	P14061-ND	5.40	4.54	3.16	EET-HC2G271KA
	270	0.675	1.22	35	25	P14062-ND	5.61	4.72	3.28	EET-HC2G271LA
	330	0.553	1.44	25	45	P14063-ND	5.79	4.87	3.39	EET-HC2G331JA
	330	0.553	1.44	30	30	P14064-ND	6.32	5.31	3.70	EET-HC2G331KF
	330	0.553	1.44	30	35	P14065-ND	5.87	4.93	3.43	EET-HC2G331KA
	330	0.553	1.44	35	30	P14066-ND	6.26	5.26	3.66	EET-HC2G331LA
	390	0.468	1.55	25	50	P14067-ND	6.34	5.33	3.71	EET-HC2G391JA
	390	0.468	1.40	30	35	P14068-ND	7.02	5.90	4.10	EET-HC2G391KF
	390	0.468	1.55	30	40	P14069-ND	6.80	5.72	3.98	EET-HC2G391KA
	390	0.468	1.55	35	30	P14070-ND	6.85	5.76	4.01	EET-HC2G391LA
	470	0.388	1.68	30	45	P14071-ND	7.49	6.30	4.38	EET-HC2G471KA
	470	0.388	1.68	35	35	P14072-ND	7.97	6.70	4.66	EET-HC2G471LA
	560	0.326	1.90	30	45	P14073-ND	9.32	7.83	5.45	EET-HC2G561KF
	560	0.326	1.90	30	50	P14074-ND	8.87	7.46	5.19	EET-HC2G561KA
	560	0.326	1.90	35	40	P14075-ND	9.02	7.58	5.27	EET-HC2G561LA
	680	0.268	2.12	35	45	P14076-ND	10.43	8.76	6.09	EET-HC2G681LA
	820	0.202	2.30	35	50	P14077-ND	12.91	10.85	7.55	EET-HC2G821LA
420	120	1.520	0.74	22	30	P14078-ND	3.66	3.08	2.14	EET-HC2S121HA
	120	1.520	0.74	25	25	P14079-ND	3.74	3.14	2.19	EET-HC2S121JA
	150	1.216	0.84	22	35	P14080-ND	3.68	3.10	2.16	EET-HC2S151HA
	180	1.103	0.91	22	40	P14081-ND	4.45	3.74	2.60	EET-HC2S181HA
	180	1.103	0.91	25	30	P14082-ND	4.56	3.84	2.67	EET-HC2S181JA
	220	0.829	1.05	22	45	P14083-ND	4.99	4.20	2.92	EET-HC2S221HA
	220	0.829	1.05	25	35	P14084-ND	5.02	4.22	2.94	EET-HC2S221JA
	220	0.829	1.05	30	25	P14085-ND	5.58	4.69	3.26	EET-HC2S221KA
	270	0.675	1.20	22	50	P14086-ND	5.66	4.76	3.31	EET-HC2S271HA
	270	0.675	1.20	25	40	P14087-ND	5.67	4.77	3.31	EET-HC2S271JA
	270	0.675	1.20	30	30	P14088-ND	6.45	5.42	3.77	EET-HC2S271KA
	270	0.675	1.20	35	25	P14089-ND	6.39	5.37	3.74	EET-HC2S271LA
	330	0.553	1.42	25	50	P14090-ND	6.99	5.87	4.09	EET-HC2S331JA
	330	0.553	1.42	30	35	P14091-ND	6.96	5.85	4.07	EET-HC2S331KA
	330	0.553	1.42	35	35	P14092-ND	7.33	6.16	4.28	EET-HC2S331LA
	390	0.468	1.55	30	40	P14093-ND	7.74	6.51	4.53	EET-HC2S391KA
	390	0.468	1.55	35	35	P14094-ND	8.13	6.83	4.75	EET-HC2S391LA
	470	0.388	1.71	30	45	P14095-ND	9.30	7.82	5.44	EET-HC2S471KA
	470	0.388	1.71	35	35	P14096-ND	9.16	7.70	5.35	EET-HC2S471LA
	560	0.326	1.90	30	50	P14097-ND	10.10	8.49	5.90	EET-HC2S561KA
	560	0.326	1.90	35	45	P14098-ND	10.53	8.85	6.16	EET-HC2S561LA
420	680	0.268	2.10	35	50	P14099-ND	12.75	10.71	7.45	EET-HC2S681LA
450	100	1.824	0.64	22	30	P14100-ND	3.25	2.74	1.90	EET-HC2W101HA
	100	1.824	0.64	25	25	P14101-ND	3.32	2.79	1.94	EET-HC2W101JA
	120	1.520	0.72	22	35	P14102-ND	3.58	3.01	2.09	EET-HC2W121HA
	120	1.520	0.72	25	30	P14103-ND	3.62	3.05	2.12	EET-HC2W121JA
	150	1.216	0.79	22	40	P14104-ND	4.06	3.41	2.37	EET-HC2W151HA
	150	1.216	0.79	25	30	P14105-ND	4.09	3.44	2.39	EET-HC2W151JA
	150	1.216	0.79	30	25	P14106-ND	4.77	4.01	2.79	EET-HC2W151KA
	180	1.013	0.87	22	45	P14107-ND	4.53	3.81	2.65	EET-HC2W181HA
	180	1.013	0.87	25	35	P14108-ND	5.05	4.25	2.96	EET-HC2W181JF
	180	1.013	0.87	25	40	P14109-ND	4.58	3.85	2.68	EET-HC2W181JA
	180	1.013	0.87	30	30	P14110-ND	5.23	4.40	3.06	EET-HC2W181KA
	220	0.829	1.00	22	50	P14111-ND	5.68	4.77	3.32	EET-HC2W221HA
	220	0.829	1.00	25	45	P14112-ND	5.19	4.37	3.04	EET-HC2W221JA
	220	0.829	1.00	30	30	P14113-ND	5.66	4.76	3.31	EET-HC2W221KA
	220	0.829	1.00	35	25	P14114-ND	6.06	5.10	3.54	EET-HC2W221LA
	270	0.675	1.19	25	50	P14115-ND	6.10	5.13	3.57	EET-HC2W271JA
	270	0.675	1.19	30	35	P14116-ND	6.97	5.86	4.08	EET-HC2W271KF
	270	0.675	1.19	30	40	P14117-ND	6.48	5.45	3.79	EET-HC2W271KA
	270	0.675	1.19	35	30	P14118-ND	6.84	5.75	4.00	EET-HC2W271LA
	330	0.553	1.38	30	40	P14119-ND	7.93	6.66	4.63	EET-HC2W331KF
	330	0.553	1.38	30	45	P14120-ND	7.59	6.38	4.44	EET-HC2W331KA
	330	0.553	1.38	35	35	P14121-ND	7.58	6.37	4.43	EET-HC2W331LA
	390	0.468	1.55	30	45	P14122-ND	9.47	7.96	5.54	EET-HC2W391KF
	390	0.468	1.55	30	50	P14123-ND	8.66	7.28	5.06	EET-HC2W391KA
	390	0.468	1.55	35	40	P14124-ND	9.51	7.99	5.56	EET-HC2W391LA
	470	0.388	1.74	35	45	P14125-ND	10.86	9.13	6.35	EET-HC2W471LA
	560	0.326	1.90	35	50	P14126-ND	11.60	9.75	6.78	EET-HC2W561LA
TSHC Highly Miniaturized Version 105°C, 2000 Hour Life, 6.3mm Pins										
160	470	0.423	1.40	22	25	P11709-ND◆	2.37	2.00	1.39	EET-HC2C471BA
	560	0.355	1.50	22	30	P11710-ND◆	2.52	2.13	1.48	EET-HC2C561BA
	680	0.293	1.70	22	30	P11711-ND	2.71	2.28	1.59	EET-HC2C681BA
	680	0.293	1.70	25	25	P11712-ND◆	2.78	2.34	1.63	EET-HC2C681CA
	820	0.243	2.00	22	35	P11713-ND	3.21	2.70	1.88	EET-HC2C821BA
	820	0.243	2.00	25	30	P11714-ND◆	3.00	2.53	1.76	EET-HC2C821CA
	1000	0.199	2.20	22	40	P11696-ND◆	3.24	2.72	1.90	EET-HC2C102BA
	1000	0.199	2.20	25	35	P11697-ND◆	3.28	2.76	1.92	EET-HC2C102CA
	1000	0.216	2.20	30	25	P11698-ND◆	3.93	3.31	2.30	EET-HC2C102DA
	1500	0.133	2.50	25	45	P11699-ND◆	4.11	3.46	2.41	EET-HC2C152CA
	1500	0.133	2.50	30	35	P11700-ND	4.73	3.98	2.77	EET-HC2C152DA
	1800	0.111	2.70	25	50	P11701-ND◆	4.64	3.91	2.72	EET-HC2C182CA
	1800	0.111	2.70	30	40	P11702-ND◆	5.21	4.38	3.05	EET-HC2C182DA
	1800	0.120	2.70	35	30	P11703-ND◆	5.65	4.75	3.31	EET-HC2C182EA
	2200	0.090	2.90	30	45	P11704-ND◆	5.90	4.96	3.45	EET-HC2C222DA
	2200	0.098	2.90	35	35	P11705-ND◆	6.38	5.36	3.73	EET-HC2C222EA
	2700	0.080	3.10	30	50	P11706-ND◆	6.73	5.66	3.94	EET-HC2C272DA
	2700	0.086	3.10	35	40	P11707-ND	7.39	6.21	4.32	EET-HC2C272EA
	3300	0.070	3.30	35	50	P11708-ND◆	9.21	7.74	5.38	EET-HC2C332EA
200	390	0.510	1.31	22	25	P11728-ND◆	2.53	2.13	1.48	EET-HC2D391BA
	470	0.423	1.45	22	30	P11729-ND◆	2.73	2.30	1.60	EET-HC2D471BA
	560	0.355	1.67	22	30	P11730-ND◆	2.94	2.47	1.72	EET-HC2D561BA
	680	0.293	1.75	22	40	P11731-ND◆	3.21	2.71	1.88	EET-HC2D681BA
	680	0.293	1.75	25	30	P11732-ND◆	3.26	2.74	1.91	EET-HC2D681CA
	820	0.243	2.04	22	45	P11733-ND◆	3.55	2.99	2.08	EET-HC2D821BA
	820	0.243	2.04	25	35	P11734-ND◆	3.57	3.00	2.09	EET-HC2D821CA
	820	0.243	2.04	30	25	P11735-ND◆	4.22	3.55	2.47	EET-HC2D821DA
	1000	0.199	2.07	25	40	P13233-ND◆	4.64	3.90	2.72	EET-HC2D102CF
	1000	0.199	2.30	22	50	P11715-ND◆	4.02	3.38	2.35	EET-HC2D102BA
	1000	0.199	2.30	25	45	P11716-ND◆	4.02	3.38	2.35	EET-HC2D102CA
	1000	0.199	2.30	30	30	P11717-ND◆	4.63	3.90	2.71	EET-HC2D102DA
	1000	0.216	2.30	35	25	P11718-ND◆	4.97	4.18	2.91	EET-HC2D102EA
	1200	0.166	2.38	25	45	P13234-ND◆	5.21	4.38	3.05	EET-HC2D122CF
	1200	0.166	2.65	25	50	P11719-ND	4.52	3.80	2.65	EET-HC2D122CA
	1200	0.166	2.65	30	35	P11720-ND◆	5.11	4.30	2.99	EET-HC2D122DA
	1200	0.180	2.65	35	30	P11721-ND	5.44	4.57	3.18	EET-HC2D122EA
	1500	0.133	2.80	30	40	P11722-ND◆	5.80	4.87	3.39	EET-HC2D152DA
	1500	0.144	2.80	35	30	P11723-ND◆	6.17	5.19	3.61	EET-HC2D152EA
	1800	0.111	3.08	30	45	P11724-ND◆	6.49	5.46	3.80	EET-HC2D182DA
	1800	0.129	3.08	35	40	P11725-ND	7.87	6.61	4.60	EET-HC2D182EA
	2200	0.090	3.48	30	50	P11726-ND◆	7.52	6.32	4.39	EET-HC2D222DA
	2200	0.098	3.48	35	45	P11727-ND◆	9.00	7.57	5.26	EET-HC2D222EA
250	270	0.614	1.10	22	25	P11740-ND◆	2.54	2.14	1.49	EET-HC2E271BA
	330	0.502	1.20	22	30	P11741-ND◆	2.76	2.32	1.61	EET-HC2E331BA
	330	0.502	1.20	25	25	P11742-ND◆	2.80	2.36	1.64	EET-HC2E331CA
	390	0.425	1.20	22	30	P13235-ND◆	3.48	2.93	2.04	EET-HC2E391BF
	390	0.425	1.30	22	35	P11743-ND◆	2.97	2.50	1.74	EET-HC2E391BA
	390	0.425	1.30	25	25	P11744-ND◆	3.00	2.53	1.76	EET-HC2E391CA
	470	0.353	1.20	22	35	P13236-ND◆	3.76	3.16	2.20	EET-HC2E471BF
	470	0.353	1.40	22	40	P11745-ND	3.23	2.71	1.89	EET-HC2E471BA
	470	0.353	1.40	25	30	P11746-ND◆	3.29	2.77	1.93	EET-HC2E471CA
	470	0.353	1.40	30	25	P11747-ND◆	3.89	3.28	2.28	EET-HC2E471DA
	560	0.296	1.40	22	40	P13237-ND◆	4.09	3.44	2.39	EET-HC2E561BF
	560	0.296	1.50	22	45	P11748-ND◆	3.55	2.98	2.08	EET-HC2E561BA
	560	0.296	1.50	25	35	P11749-ND◆	3.58	3.01	2.10	EET-HC2E561CA
	560	0.296	1.50	30	25	P11750-ND◆	4.24	3.56	2.48	EET-HC2E561DA
	680	0.244	1.50	22	45	P13238-ND◆	4.57	3.85	2.68	EET-HC2E681BF
	680	0.244	1.70	22	50	P11751-ND	3.99	3.35	2.33	EET-HC2E681BA
	680	0.244	1.70	25	40	P11752-ND◆	3.98	3.35	2.33	EET-HC2E681CA
	680	0.244	1.70	30	30	P11753-ND◆	4.60	3.87	2.69	EET-HC2E681DA
	820	0.202	2.00	25	45	P11754-ND◆	4.47	3.76	2.61	EET-HC2E821CA
	820	0.202	2.00	30	35	P11755-ND◆	5.08	4.28	2.97	EET-HC2E821DA
	820	0.202	2.00	35	30	P11756-ND	5.66	4.76	3.31	EET-HC2E821EA
	1000	0.166	2.20	25	50	P13239-ND◆	6.17	5.18	3.61	EET-HC2E102CF
	1000	0.166	2.20	35	30	P13240-ND◆	6.86	5.77	4.01	EET-HC2E102EA
	1000	0.166	2.20	30	40	P11736-ND◆	5.68	4.78	3.32	EET-HC2E102DA
	1200	0.138	2.30	35	35	P13241-ND◆	7.91	6.65	4.62	EET-HC2E122EA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				D	L		1	50	200	
250	1200	0.138	2.30	30	45	P11737-ND◆	6.39	5.38	3.74	EET-HC2E122DA
	1500	0.111	2.50	35	45	P11738-ND◆	9.80	8.24	5.73	EET-HC2E152EA
	1800	0.092	2.50	35	45	P13242-ND◆	10.31	8.67	6.03	EET-HC2E182EF
	1800	0.092	2.70	35	50	P11739-ND◆	11.31	9.51	6.61	EET-HC2E182EA
350	120	1.382	0.75	22	25	P11780-ND◆	2.73	2.30	1.60	EET-HC2V121BA
	150	1.105	0.82	22	30	P11781-ND◆	3.01	2.53	1.76	EET-HC2V151BA
	180	0.921	0.90	22	30	P11782-ND◆	3.60	3.03	2.11	EET-HC2V181BA
	180	0.921	0.90	25	25	P11783-ND◆	3.65	3.07	2.13	EET-HC2V181CA
	220	0.754	1.00	22	35	P11784-ND◆	3.70	3.11	2.17	EET-HC2V221BA
	220	0.754	1.00	25	30	P11785-ND	3.71	3.12	2.17	EET-HC2V221CA
	270	0.614	1.10	25	35	P11786-ND◆	4.14	3.48	2.42	EET-HC2V271CA
	270	0.614	1.10	30	25	P11787-ND◆	4.87	4.09	2.85	EET-HC2V271DA
	330	0.502	1.20	25	40	P11788-ND◆	4.73	3.98	2.77	EET-HC2V331CA
	330	0.502	1.20	30	30	P11789-ND◆	5.35	4.50	3.13	EET-HC2V331DA
	390	0.425	1.30	25	45	P11790-ND	5.26	4.42	3.08	EET-HC2V391CA
	390	0.425	1.30	30	35	P11791-ND◆	5.88	4.94	3.44	EET-HC2V391DA
	470	0.353	1.40	25	50	P11792-ND◆	6.15	5.17	3.60	EET-HC2V471CA
	470	0.353	1.40	35	30	P11793-ND◆	6.79	5.71	3.97	EET-HC2V471EA
	560	0.296	1.50	30	45	P11794-ND	7.43	6.24	4.34	EET-HC2V561DA
	560	0.296	1.50	35	35	P11795-ND◆	7.60	6.39	4.44	EET-HC2V561EA
	680	0.244	1.70	30	50	P11796-ND	8.62	7.24	5.04	EET-HC2V681DA
	680	0.244	1.70	35	40	P11797-ND	8.66	7.28	5.06	EET-HC2V681EA
	820	0.202	1.90	35	45	P11798-ND◆	9.92	8.34	5.80	EET-HC2V821EA
400	100	1.824	0.70	22	25	P11757-ND◆	2.77	2.34	1.63	EET-HC2G101BA
	120	1.520	0.75	22	30	P11758-ND	3.02	2.54	1.77	EET-HC2G121BA
	150	1.216	0.88	22	30	P11759-ND◆	3.39	2.85	1.99	EET-HC2G151BA
	180	1.013	0.95	22	35	P11760-ND◆	3.76	3.16	2.20	EET-HC2G181BA
	180	1.013	0.95	25	30	P11761-ND◆	3.78	3.18	2.21	EET-HC2G181CA
	220	0.829	1.00	22	40	P13243-ND◆	4.60	3.87	2.69	EET-HC2G221BF
	220	0.829	1.10	22	45	P11762-ND◆	4.16	3.50	2.44	EET-HC2G221BA
	220	0.829	1.10	25	35	P11763-ND◆	4.19	3.52	2.45	EET-HC2G221CA
	220	0.829	1.10	30	25	P11764-ND◆	4.54	3.82	2.66	EET-HC2G221DA
	270	0.675	1.10	22	45	P13244-ND◆	5.32	4.47	3.11	EET-HC2G271BF
	270	0.675	1.22	22	50	P11765-ND◆	4.80	4.04	2.81	EET-HC2G271BA
	270	0.675	1.22	25	40	P11766-ND◆	4.85	4.08	2.83	EET-HC2G271CA
	270	0.675	1.22	30	30	P11767-ND◆	5.42	4.56	3.17	EET-HC2G271DA
	270	0.675	1.22	35	25	P11768-ND◆	5.63	4.73	3.29	EET-HC2G271EA
	330	0.553	1.44	25	45	P11769-ND◆	5.81	4.88	3.40	EET-HC2G331CA
	330	0.553	1.44	30	35	P11770-ND◆	5.89	4.95	3.44	EET-HC2G331DA
	330	0.553	1.44	35	30	P11771-ND◆	6.28	5.28	3.67	EET-HC2G331EA
	390	0.468	1.40	30	35	P13245-ND◆	7.04	5.92	4.12	EET-HC2G391DF
	390	0.468	1.55	25	50	P11772-ND◆	6.36	5.35	3.72	EET-HC2G391CA
	390	0.468	1.55	30	40	P11773-ND	6.82	5.74	3.99	EET-HC2G391DA
	390	0.468	1.55	35	30	P11774-ND◆	6.88	5.78	4.02	EET-HC2G391EA
	470	0.388	1.68	30	45	P11775-ND◆	7.51	6.32	4.39	EET-HC2G471DA
	470	0.388	1.68	35	35	P11776-ND◆	8.00	6.72	4.68	EET-HC2G471EA
	560	0.326	1.90	30	50	P11777-ND◆	8.90	7.48	5.20	EET-HC2G561DA
	560	0.326	1.90	35	40	P11778-ND◆	9.05	7.60	5.29	EET-HC2G561EA
	680	0.268	2.12	35	45	P11779-ND◆	10.46	8.79	6.11	EET-HC2G681EA
	820	0.202	2.30	35	50	P13246-ND◆	12.95	10.88	7.57	EET-HC2G821EA
420	120	1.520	0.74	22	30	P13247-ND◆	3.67	3.09	2.15	EET-HC2S121BA
	120	1.520	0.74	25	25	P13248-ND◆	3.75	3.15	2.19	EET-HC2S121CA
	150	1.216	0.84	22	35	P13249-ND◆	3.69	3.11	2.16	EET-HC2S151BA
	180	1.103	0.91	22	40	P13250-ND◆	4.46	3.75	2.61	EET-HC2S181BA
	180	1.103	0.91	25	30	P13251-ND◆	4.57	3.85	2.68	EET-HC2S181CA
	220	0.829	1.05	22	45	P13252-ND◆	5.00	4.21	2.93	EET-HC2S221BA
	220	0.829	1.05	25	35	P13253-ND◆	5.04	4.23	2.95	EET-HC2S221CA
	220	0.829	1.05	30	25	P13254-ND◆	5.59	4.70	3.27	EET-HC2S221DA
	270	0.675	1.20	22	50	P13255-ND◆	5.67	4.77	3.32	EET-HC2S271BA
	270	0.675	1.20	25	40	P13256-ND◆	5.68	4.78	3.32	EET-HC2S271CA
	270	0.675	1.20	30	30	P13257-ND◆	6.47	5.44	3.78	EET-HC2S271DA
	270	0.675	1.20	35	25	P13258-ND◆	6.41	5.39	3.75	EET-HC2S271EA
	330	0.553	1.42	25	50	P13259-ND◆	7.01	5.89	4.10	EET-HC2S331CA
	330	0.553	1.42	30	35	P13260-ND◆	6.98	5.87	4.08	EET-HC2S331DA
	330	0.553	1.42	35	35	P13261-ND◆	7.35	6.18	4.30	EET-HC2S331EA
	390	0.468	1.55	30	40	P13262-ND◆	7.76	6.53	4.54	EET-HC2S391DA
	390	0.468	1.55	35	35	P13263-ND◆	8.15	6.85	4.77	EET-HC2S391EA
	470	0.388	1.71	30	45	P13264-ND◆	9.33	7.84	5.45	EET-HC2S471DA
	470	0.388	1.71	35	35	P13265-ND◆	9.19	7.72	5.37	EET-HC2S471EA
	560	0.326	1.90	30	50	P13266-ND◆	10.13	8.51	5.92	EET-HC2S561DA
	680	0.268	2.10	35	50	P13268-ND◆	12.79	10.75	7.47	EET-HC2S681EA
450	100	1.824	0.64	22	30	P11799-ND◆	3.26	2.74	1.91	EET-HC2W101BA
	100	1.824	0.64	25	25	P11800-ND◆	3.32	2.80	1.95	EET-HC2W101CA
	120	1.520	0.72	22	35	P11801-ND	3.59	3.02	2.10	EET-HC2W121BA
	120	1.520	0.72	25	30	P11802-ND◆	3.63	3.06	2.13	EET-HC2W121CA
	150	1.216	0.79	22	40	P11803-ND◆	4.06	3.42	2.38	EET-HC2W151BA
	150	1.216	0.79	25	30	P11804-ND◆	4.10	3.45	2.40	EET-HC2W151CA
	150	1.216	0.79	30	25	P11805-ND◆	4.78	4.02	2.80	EET-HC2W151DA
	180	1.013	0.79	25	35	P13269-ND◆	5.07	4.26	2.96	EET-HC2W181CF
	180	1.013	0.87	22	45	P11806-ND◆	4.54	3.82	2.65	EET-HC2W181BA
	180	1.013	0.87	25	40	P11807-ND◆	4.59	3.86	2.69	EET-HC2W181CA
	180	1.013	0.87	30	30	P11808-ND	5.24	4.41	3.07	EET-HC2W181DA
	220	0.829	0.90	22	50	P13270-ND◆	5.69	4.79	3.33	EET-HC2W221BA
	220	0.829	1.00	25	45	P11809-ND◆	5.21	4.38	3.05	EET-HC2W221CA
	220	0.829	1.00	30	30	P11810-ND◆	5.67	4.77	3.32	EET-HC2W221DA
	220	0.829	1.00	35	25	P11811-ND◆	6.08	5.11	3.55	EET-HC2W221EA
	270	0.675	1.07	30	35	P13272-ND◆	6.99	5.88	4.09	EET-HC2W271DF
	270	0.675	1.19	25	50	P11812-ND◆	6.12	5.14	3.58	EET-HC2W271CA
	270	0.675	1.19	30	40	P11813-ND◆	6.50	5.47	3.80	EET-HC2W271DA
	270	0.675	1.19	35	30	P11814-ND◆	6.86	5.76	4.01	EET-HC2W271EA
	330	0.553	1.24	30	40	P13273-ND◆	7.95	6.68	4.65	EET-HC2W331DF
	330	0.553	1.38	30	45	P11815-ND◆	7.61	6.40	4.45	EET-HC2W331DA
	330	0.553	1.38	35	35	P11816-ND◆	7.60	6.39	4.44	EET-HC2W331EA
	390	0.468	1.39	30	45	P13274-ND◆	9.50	7.98	5.55	EET-HC2W391DF
	390	0.468	1.55	30	50	P11817-ND◆	8.68	7.30	5.08	EET-HC2W391DA
	390	0.468	1.55	35	40	P11818-ND◆	9.53	8.01	5.57	EET-HC2W391EA
450	470	0.388	1.74	35	45	P11819-ND	9.99	8.39	5.84	EET-HC2W471EA
	560	0.326	1.90	35	50	P11820-ND◆	11.63	9.78	6.80	EET-HC2W561EA
TSED Very High Ripple Current 105°C, 3000 Hour Life										
200	270	0.553	1.42	22	25	P11609-ND	2.35	1.98	1.38	EET-ED2D271BA
	330	0.452	1.56	22	30	P11610-ND◆	2.44	2.06	1.43	EET-ED2D331BA
	390	0.383	1.71	22	30	P11611-ND◆	2.65	2.23	1.55	EET-ED2D391BA
	390	0.383	1.71	25	25	P11612-ND◆	2.70	2.27	1.58	EET-ED2D391CA
	470	0.317	1.85	22	35	P11613-ND◆	2.87	2.42	1.68	EET-ED2D471BA
	470	0.317	1.85	25	30	P11614-ND◆	2.89	2.43	1.69	EET-ED2D471CA
	560	0.266	2.14	22	40	P11615-ND◆	3.09	2.60	1.81	EET-ED2D561BA
	560	0.266	2.14	25	30	P11616-ND◆	3.12	2.62	1.82	EET-ED2D561CA
	560	0.266	2.14	30	25	P11617-ND◆	4.19	3.53	2.45	EET-ED2D561DA
	680	0.219	2.42	22	45	P11618-ND◆	3.39	2.86	1.99	EET-ED2D681BA
	680	0.219	2.42	25	35	P11619-ND◆	3.43	2.89	2.01	EET-ED2D681CA
	680	0.219	2.42	30	30	P11620-ND◆	4.19	3.53	2.45	EET-ED2D681DA
	820	0.182	2.63	22	50	P11621-ND◆	3.77	3.17	2.21	EET-ED2D821BA
	820	0.182	2.63	25	40	P11622-ND◆	3.76	3.17	2.20	EET-ED2D821CA
	820	0.182	2.63	30	30	P11623-ND◆	4.17	3.51	2.44	EET-ED2D821DA
	820	0.182	2.63	35	25	P11624-ND◆	5.25	4.41	3.07	EET-ED2D821EA
	1000	0.149	2.84	25	45	P11600-ND◆	4.37	3.67	2.56	EET-ED2D102CA
	1000	0.149	2.84	30	35	P11601-ND◆	5.10	4.29	2.98	EET-ED2D102DA
	1000	0.149	2.84	35	30	P11602-ND◆	5.19	4.37	3.04	EET-ED2D102EA
	1200	0.124	3.13	30	40	P11603-ND◆	5.18	4.36	3.03	EET-ED2D122DA
	1200	0.124	3.13	35	35	P11604-ND	5.60	4.71	3.27	EET-ED2D122EA
	1500	0.099	3.56	30	50	P11605-ND◆	6.15	5.17	3.60	EET-ED2D152DA
	1500	0.099	3.56	35	40	P11606-ND	6.48	5.45	3.79	EET-ED2D152EA
	1800	0.083	3.84	35	45	P11607-ND◆	8.19	6.88	4.79	EET-ED2D182EA
	2200	0.068	4.12	35	50	P11608-ND◆	9.42	7.92	5.51	EET-ED2D222EA
250	220	0.678	1.28	22	30	P11628-ND◆	2.60	2.19	1.52	EET-ED2E221BA
	270	0.553	1.42	22	30	P11629-ND◆	2.87	2.41	1.68	EET-ED2E271BA
	270	0.553	1.42	25	25	P11630-ND◆	2.92	2.46	1.71	EET-ED2E271CA
	330	0.452	1.64	22	35	P11631-ND◆	3.14	2.64	1.84	EET-ED2E331BA
	330	0.452	1.56	25	30	P11632-ND◆	3.17	2.67	1.86	EET-ED2E331CA
	390	0.383	1.72	22	40	P11633-ND◆	3.40	2.86	1.99	EET-ED2E391BA
	390	0.383	1.71	25	30	P11634-ND◆	3.44	2.89	2.01	EET-ED2E391CA
	390	0.383	1.71	30	25	P11635-ND	3.65	3.07	2.14	EET-ED2E391DA
	470	0.317	1.85	22	45	P11636-ND◆	3.75	3.15	2.19	EET-ED2E471BA
	470	0.317	1.85	25	35	P11637-ND◆	3.80	3.20	2.22	EET-ED2E471CA
	470	0.317	1.85	30	30	P11638-ND◆	4.39	3.70	2.57	EET-ED2E471DA
	560	0.266	2.14	25	40	P11639-ND◆	4.20	3.54	2.46	EET-ED2E561CA
	560	0.266	2.14	30	30	P11640-ND◆	4.80	4.03	2.81	EET-ED2E561DA
	680	0.219	2.42	25	45	P11641-ND◆	4.71	3.96	2.76	EET-ED2E681CA
	680	0.219	2.42	30	35	P11642-ND◆	5.34	4.49	3.12	EET-ED2E681DA
	680	0.219	2.42	35	30	P11643-ND◆	5.45	4.58	3.18	EET-ED2E681EA
	820	0.182	2.63	30	40	P11644-ND◆	5.96	5.01	3.48	EET-ED2E821DA
	820	0.182	2.63	35	35	P11645-ND◆	6.07	5.11	3.55	EET-ED2E821EA
	1000	0.149	2.84	30	50	P11625-ND◆	6.46	5.43	3.78	EET-ED2E102DA
	1000	0.149	2.84	35	40	P11626-ND◆	7.41	6.23	4.33	EET-ED2E102EA
	1500	0.099	3.56	35	50	P11627-ND◆	9.22	7.75	5.39	EET-ED2E152EA
400	82	1.617	0.80	22	25	P11667-ND◆	2.74	2.31	1.60	EET-ED2G820BA
	100	1.326	0.91	22	30	P11646-ND◆	2.97	2.50	1.74	EET-ED2G101BA
	100	1.326	0.91	25	25	P11647-ND◆	3.01	2.53	1.76	EET-ED2G101CA
	150	0.884	1.07	22	40	P11648-ND◆	3.61	3.04	2.11	EET-ED2G151BA
	150	0.884	1.07	25	30	P11649-ND◆	3.62	3.05	2.12	EET-ED2G151CA
	150	0.884	1.07	30	25	P11650-ND◆	4.33	3.64	2.53	EET-ED2G151DA
	180	0.737	1.12	22	45	P11651-ND◆	4.00	3.37	2.34	EET-ED2G181BA
	180	0.737	1.12	25	35	P11652-ND◆	4.03	3.39	2.36	EET-ED2G181CA
	180	0.737	1.12	30	30	P11653-ND◆	4.71	3.96	2.76	EET-ED2G181DA
	220	0.603	1.42	22	50	P11654-ND◆	4.59	3.86	2.68	EET-ED2G221BA
	220	0.603	1.42	25	40	P11655-ND◆	4.53	3.81	2.65	EET-ED2G221CA
	220	0.603	1.42	30	30	P11656-ND◆	4.92	4.14	2.88	EET-ED2G221DA
	220	0.603	1.42	35	25	P11657-ND◆	5.37	4.52	3.14	EET-ED2G221EA
	270	0.491	1.56	25	45	P11658-ND◆	5.19	4.37	3.04	EET-ED2G271CA
	270	0.491	1.56	30	35	P11659-ND◆	5.98	5.02	3.49	EET-ED2G271DA
	270	0.491	1.56	35	30	P11660-ND	6.00	5.05	3.51	EET-ED2G271EA
	330	0.402	1.71	30	40	P11661-ND◆	6.42	5.40	3.75	EET-ED2G331DA
	330	0.402	1.71	35	30	P11662-ND◆	6.72	5.65	3.93	EET-ED2G331EA
	390	0.340	1.85	30	45	P11663-ND◆	7.61	6.40	4.45	EET-ED2G391DA
	390	0.340	1.85	35	35	P11664-ND◆	7.54	6.34	4.41	EET-ED2G391EA
	470	0.282	2.01	35	40	P11665-ND◆	8.71	7.32	5.09	EET-ED2G471EA
	560	0.237	2.35	35	45	P11666-ND◆	9.80	8.23	5.73	EET-ED2G561EA
450	56	2.368	0.67	22	25	P11690-ND◆	2.68	2.26	1.57	EET-ED2W560BA
	68	1.950	0.76	22	30	P11692-ND◆	2.92	2.45	1.71	EET-ED2W680BA
	68	1.950	0.76	25	25	P11693-ND◆	2.96	2.50	1.74	EET-ED2W680CA
	82	1.617	0.80	22	30	P11694-ND	3.15	2.65	1.85	EET-ED2W820BA
	82	1.617	0.80	25	25	P11695-ND◆	3.20	2.70	1.88	EET-ED2W820CA
	100	1.326	0.91	22	35	P11668-ND◆	3.49	2.94	2.04	EET-ED2W101BA
	100	1.326	0.91	25	30	P11669-ND◆	3.53	2.97	2.07	EET-ED2W101CA
	120	1.105	1.02	22	40	P11670-ND◆	3.83	3.23	2.24	EET-ED2W121BA
	120	1.105	1.02	25	35	P11671-ND◆	3.87	3.26	2.27	EET-ED2W121CA
	120	1.105	1.02	30	25	P11672-ND◆	4.51	3.80	2.64	EET-ED2W121DA
	150	0.884	1.07	22	45	P11673-ND◆	4.40	3.70	2.57	EET-ED2W151BA
	150	0.884	1.07	25	40	P11674-ND◆	4.43	3.72	2.59	EET-ED2W151CA
	150	0.884	1.07	30	30	P11675-ND◆	4.64	3.91	2.72	EET-ED2W151DA
	150	0.884	1.07	35	25	P11676-ND◆	5.18	4.35	3.03	EET-ED2W151EA
	180	0.737	1.12	22	50	P11677-ND◆	5.01	4.21	2.93	EET-ED2W181BA
	180	0.737	1.12	25	40	P11678-ND◆	4.97	4.18	2.91	EET-ED2W181CA
	180	0.737	1.12	30	30	P11679-ND◆	5.58	4.69	3.26	EET-ED2W181DA
	180	0.737	1.12	35	25	P11680-ND◆	5.73	4.82	3.35	EET-ED2W181EA
	220	0.603	1.42	25	45	P11681-ND◆	5.83	4.90	3.41	EET-ED2W221CA
	220	0.603	1.42	30	35	P11682-ND◆	5.89	4.95	3.44	EET-ED2W221DA
	220	0.603	1.42	35	30	P11683-ND◆	6.24	5.24	3.65	EET-ED2W221EA
	270	0.491	1.72	30	40	P11684-ND◆	6.78	5.70	3.96	EET-ED2W271DA
	270	0.491	1.72	35	35	P11685-ND◆	7.12	5.99	4.16	EET-ED2W271EA
	330	0.402	1.85	30	50	P11686-ND◆	7.95	6.69	4.65	EET-ED2W331DA
	330	0.402	1.85	35	40	P11687-ND◆	8.32	6.99	4.86	EET-ED2W331EA
	390	0.340	1.97	35	40	P11688-ND◆	9.37	7.88	5.48	EET-ED2W391EA
	470	0.282	2.47	35	50	P11689-ND◆	10.93	9.18	6.39	EET-ED2W471EA
	560	0.236	3.50	35	63	P11691-ND◆	15.61	13.12	9.12	EET-ED2W561EA

◆ RoHS Compliant

Panasonic® T-UP Series Snap-In Capacitors

4 Pin Terminal

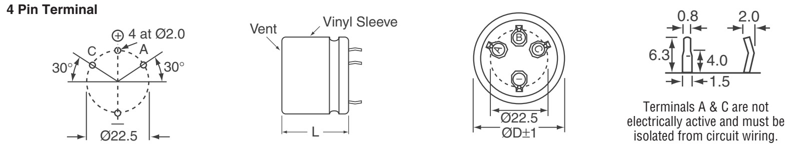
4 at Ø2.0
C
A
30°
30°
Ø22.5
Vent
Vinyl Sleeve
L
Ø22.5
ØD±1
0.8
2.0
6.3
4.0
1.5
Terminals A & C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

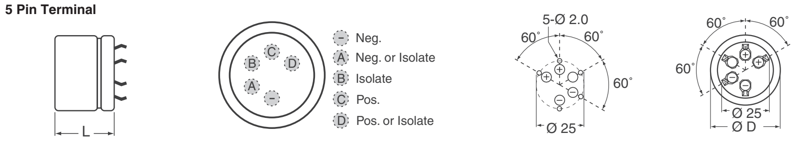

Features:
- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-U series with higher capacitance and ripple current per case size
- General purpose rated at 85°C, 3000 hour endurance
- 35 and 40mm diameter case sizes up to 80mm in length for 4 terminal mounting and 105mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 500VDC
Operating Temperature		-40°C ~ 85°C	-25°C ~ 85°C
Nominal Capacitance:	**4 Pin**	1500 ~ 120000µF	470 ~ 1800µF
	5 Pin	1200~270000µF(±20%Tol.)	220 ~ 2700µF(±20%Tol.)
Endurance:	**4 Pin**	2000 hours at 85°C with maximum specified ripple current	
	5 Pin	3000 hours at 85°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450	500
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500	550

Capacitance (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms)		Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each			Panasonic Part No.
		120Hz	10k~100kHz			1	50	200	
16WV DC • 4 Pin — RoHS Compliant									
68000	35 x 50	9.05	10.41	0.018	P10000-ND	9.96	8.37	5.82	ECE-T1CP683EA
82000	35 x 60	10.02	11.52	0.016	P10001-ND	11.39	9.57	6.66	ECE-T1CP823EA
82000	40 x 50	10.29	11.83	0.019	P10003-ND	8.96	7.53	5.24	ECE-T1CP823FA
100000	35 x 80	11.00	12.65	0.019	P10002-ND	12.04	10.12	7.04	ECE-T1CP104EA
100000	40 x 60	11.36	13.06	0.020	P10004-ND	13.24	11.13	7.74	ECE-T1CP104FA
120000	40 x 80	12.42	14.28	0.018	P10005-ND	14.40	12.10	8.42	ECE-T1CP124FA
25WV DC • 4 Pin — RoHS Compliant									
47000	35 x 50	8.00	9.20	0.017	P10006-ND	10.02	8.42	5.86	ECE-T1EP473EA
56000	35 x 60	8.85	10.18	0.015	P10007-ND	11.39	9.57	6.66	ECE-T1EP563EA
56000	40 x 50	8.96	10.30	0.018	P10009-ND	11.40	9.58	6.66	ECE-T1EP563FA
68000	35 x 80	10.43	11.99	0.013	P10008-ND	12.62	10.61	7.37	ECE-T1EP683EA
68000	40 x 60	10.25	11.79	0.017	P10010-ND	13.21	11.10	7.72	ECE-T1EP683FA
100000	40 x 80	12.08	13.89	0.012	P10011-ND	17.76	14.92	10.38	ECE-T1EP104FA
35WV DC • 4 Pin									
33000	35 x 50	7.15	8.22	0.018	P10012-ND◆	10.53	8.85	6.16	ECE-T1VP333EA
39000	35 x 60	7.94	9.13	0.015	P10013-ND	12.01	10.09	7.02	ECE-T1VP393EA
39000	40 x 50	7.98	9.18	0.017	P10015-ND◆	11.97	10.06	6.99	ECE-T1VP393FA
47000	35 x 80	9.53	10.96	0.015	P10014-ND◆	13.24	11.13	7.74	ECE-T1VP473EA
47000	40 x 60	9.58	11.02	0.016	P10016-ND◆	13.88	11.66	8.11	ECE-T1VP473FA
56000	40 x 80	10.30	11.85	0.015	P10017-ND◆	15.03	12.63	8.78	ECE-T1VP563FA
50WV DC • 4 Pin — RoHS Compliant									
22000	35 x 50	7.57	8.71	0.021	P10018-ND	10.99	9.24	6.42	ECE-T1HP223EA
27000	35 x 60	8.31	9.56	0.018	P10019-ND	12.88	10.82	7.52	ECE-T1HP273EA
27000	40 x 50	8.12	9.34	0.021	P10021-ND	12.78	10.74	7.47	ECE-T1HP273FA
33000	35 x 80	9.23	10.51	0.015	P10020-ND	14.36	12.07	8.39	ECE-T1HP333EA
33000	40 x 60	9.10	10.47	0.018	P10022-ND	15.06	12.66	8.80	ECE-T1HP333FA
39000	40 x 80	10.12	11.64	0.015	P10023-ND	16.28	13.68	9.51	ECE-T1HP393FA
63WV DC • 4 Pin — RoHS Compliant									
12000	35 x 50	7.15	8.22	0.035	P10024-ND	9.71	8.16	5.68	ECE-T1JP123EA
15000	35 x 60	7.71	8.87	0.028	P10025-ND	11.31	9.50	6.61	ECE-T1JP153EA
15000	40 x 50	7.53	8.66	0.033	P10027-ND	11.31	9.50	6.61	ECE-T1JP153FA
18000	35 x 80	9.41	10.82	0.023	P10026-ND	12.42	10.44	7.26	ECE-T1JP183EA
18000	40 x 60	9.25	10.64	0.028	P10028-ND	13.00	10.92	7.60	ECE-T1JP183FA
22000	40 x 80	9.97	11.47	0.023	P10029-ND	14.29	12.01	8.35	ECE-T1JP223FA
80WV DC • 4 Pin — RoHS Compliant									
8200	35 x 50	5.83	6.70	0.051	P10030-ND	9.52	8.00	5.56	ECE-T1KP822EA
10000	35 x 60	6.38	7.34	0.041	P10031-ND	11.53	9.69	6.74	ECE-T1KP103EA
10000	40 x 50	6.56	7.54	0.041	P10033-ND	11.00	9.24	6.43	ECE-T1KP103FA
12000	35 x 80	6.92	7.96	0.035	P10032-ND	12.07	10.14	7.05	ECE-T1KP123EA
12000	40 x 60	7.29	8.38	0.035	P10034-ND	13.23	11.11	7.73	ECE-T1KP123FA
15000	40 x 80	8.93	10.27	0.028	P10035-ND	15.93	13.38	9.31	ECE-T1KP153FA
100WV DC • 4 Pin — RoHS Compliant									
6800	35 x 50	6.60	7.59	0.049	P10036-ND	11.20	9.41	6.55	ECE-T2AP682EA
8200	35 x 60	7.05	8.12	0.040	P10037-ND	13.13	11.03	7.67	ECE-T2AP822EA
8200	40 x 50	7.28	8.37	0.040	P10039-ND	12.97	10.90	7.58	ECE-T2AP822FA
10000	35 x 80	7.74	8.90	0.033	P10038-ND	14.58	12.25	8.52	ECE-T2AP103EA
10000	40 x 60	7.97	9.17	0.033	P10040-ND	15.37	12.91	8.98	ECE-T2AP103FA
12000	40 x 80	8.65	9.95	0.026	P10041-ND	17.06	14.33	9.97	ECE-T2AP123FA
200WV DC • 4 Pin									
2200	35 x 50	4.92	6.89	0.113	P10042-ND◆	10.57	8.88	6.18	ECE-T2DP222EA
2700	40 x 50	5.41	7.57	0.092	P10045-ND◆	12.31	10.35	7.20	ECE-T2DP272FA
3300	35 x 80	6.44	9.02	0.065	P10044-ND◆	13.73	11.54	8.03	ECE-T2DP332EA
3300	40 x 60	6.32	8.85	0.065	P10046-ND◆	13.75	11.55	8.03	ECE-T2DP332FA
3900	35 x 80	6.60	9.24	0.055	P13177-ND◆	17.50	14.70	10.22	ECE-T2DP392EA
3900	40 x 63	6.81	9.53	0.055	P13178-ND◆	18.01	15.13	10.52	ECE-T2DP392FX
3900	40 x 80	6.40	8.96	0.064	P10047-ND	15.58	13.10	9.11	ECE-T2DP392FA
250WV DC • 4 Pin									
1500	35 x 50	4.04	5.66	0.166	P10048-ND◆	10.77	9.05	6.29	ECE-T2EP152EA
1800	35 x 60	4.49	6.29	0.138	P10049-ND◆	11.92	10.02	6.97	ECE-T2EP182EA
1800	40 x 50	4.49	6.29	0.138	P10051-ND	12.43	10.45	7.26	ECE-T2EP182FA
2200	35 x 63	4.70	6.58	0.090	P13179-ND◆	14.46	12.15	8.45	ECE-T2EP222EX
2200	35 x 80	4.94	6.92	0.113	P10050-ND◆	13.90	11.68	8.12	ECE-T2EP222EA
2200	40 x 60	4.94	6.92	0.113	P10052-ND◆	13.88	11.67	8.11	ECE-T2EP222FA
2700	35 x 80	5.63	7.88	0.074	P13180-ND◆	17.69	14.86	10.33	ECE-T2EP272EA
2700	40 x 63	5.81	8.13	0.074	P13181-ND◆	18.30	15.38	10.69	ECE-T2EP272FX
2700	40 x 80	5.39	7.55	0.092	P10053-ND◆	16.13	13.55	9.42	ECE-T2EP272FA
3900	40 x 80	7.36	10.30	0.051	P13182-ND◆	22.64	19.02	13.22	ECE-T2EP392FA
350WV DC • 4 Pin									
680	35 x 50	2.96	4.14	0.366	P10054-ND	10.93	9.18	6.39	ECE-T2VP681EA
1000	35 x 60	3.80	5.32	0.249	P10055-ND◆	13.76	11.57	8.04	ECE-T2VP102EA
1000	40 x 50	3.80	5.32	0.249	P10057-ND◆	14.32	12.04	8.37	ECE-T2VP102FA
1200	35 x 80	4.42	6.19	0.207	P10056-ND	15.89	13.35	9.28	ECE-T2VP122EA
1200	40 x 60	4.42	6.19	0.207	P10058-ND◆	15.97	13.42	9.33	ECE-T2VP122FA
1800	40 x 80	5.85	8.19	0.138	P10059-ND◆	21.56	18.11	12.59	ECE-T2VP182FA
400WV DC • 4 Pin — RoHS Compliant									
560	35 x 50	2.72	3.81	0.326	P10060-ND	10.82	9.10	6.33	ECE-T2GP561EA
680	35 x 60	2.93	4.10	0.366	P10061-ND	12.06	10.14	7.05	ECE-T2GP681EA
680	40 x 50	3.38	4.73	0.268	P13183-ND	12.81	10.77	7.49	ECE-T2GP681FA
820	40 x 50	3.38	4.73	0.222	P10063-ND	14.00	11.77	8.18	ECE-T2GP821FA
1000	35 x 80	3.42	4.79	0.249	P10062-ND	15.80	13.28	9.23	ECE-T2GP102EA
1000	40 x 60	4.16	5.82	0.199	P10064-ND	17.37	14.59	10.15	ECE-T2GP102FA
1500	40 x 80	5.50	7.70	0.122	P10065-ND	21.48	18.05	12.55	ECE-T2GP152FA
450WV DC • 4 Pin — RoHS Compliant									
470	35 x 50	2.53	3.54	0.529	P10066-ND	12.19	10.25	7.12	ECE-T2WP471EA
470	40 x 35	2.53	3.54	0.423	P13186-ND	13.49	11.34	7.88	ECE-T2WP471FA
560	35 x 60	2.90	4.06	0.355	P10067-ND	13.53	11.37	7.91	ECE-T2WP561EA
680	35 x 80	3.17	4.44	0.293	P13187-ND	17.77	14.93	10.38	ECE-T2WP681EA
680	40 x 50	3.15	4.41	0.293	P10069-ND	15.85	13.32	9.26	ECE-T2WP681FA
820	35 x 80	3.78	5.29	0.243	P10068-ND	17.98	15.11	10.51	ECE-T2WP821EA
820	40 x 60	3.70	5.18	0.243	P10070-ND	17.85	15.00	10.43	ECE-T2WP821FA
1000	40 x 80	4.21	5.89	0.216	P13188-ND	22.54	18.94	13.17	ECE-T2WP102FA
1200	40 x 80	4.84	6.78	0.166	P10071-ND	24.02	20.18	14.03	ECE-T2WP122FA
50WV DC • 5 Pin — RoHS Compliant									
33000	50 x 50	10.48	12.05	0.018	P13275-ND	25.74	21.63	15.04	ECE-P1HP333HA
47000	50 x 63	11.54	13.27	0.013	P13276-ND	28.12	23.62	16.42	ECE-P1HP473HA
56000	50 x 80	12.46	14.33	0.012	P13277-ND	30.43	25.56	17.77	ECE-P1HP563HA
68000	50 x 92	13.17	15.15	0.011	P13278-ND	33.83	28.42	19.76	ECE-P1HP683HA
82000	50 x 105	13.87	15.95	0.011	P13279-ND	37.24	31.28	21.75	ECE-P1HP823HA
80WV DC • 5 Pin — RoHS Compliant									
22000	50 x 63	11.08	12.74	0.019	P13281-ND	27.95	23.48	16.33	ECE-P1KP223HA
39000	50 x 105	14.34	16.49	0.013	P13284-ND	36.53	30.69	21.34	ECE-P1KP393HA
100WV DC • 5 Pin — RoHS Compliant									
10000	50 x 50	8.82	10.14	0.033	P13285-ND	24.71	20.76	14.44	ECE-P2AP103HA
18000	50 x 80	11.00	12.65	0.018	P13287-ND	30.72	25.81	17.95	ECE-P2AP183HA
22000	50 x 92	11.76	13.52	0.015	P13288-ND	33.72	28.33	19.70	ECE-P2AP223HA
200WV DC • 5 Pin — RoHS Compliant									
3900	50 x 50	8.22	11.51	0.055	P13290-ND	26.21	22.02	15.31	ECE-P2DP392HA
4700	50 x 63	9.32	13.05	0.046	P13291-ND	28.07	23.58	16.39	ECE-P2DP472HA
5600	50 x 63	9.57	13.40	0.038	P13292-ND	31.57	26.52	18.44	ECE-P2DP562HA
8200	50 x 92	13.02	18.23	0.026	P13294-ND	36.74	30.86	21.46	ECE-P2DP822HX
10000	50 x 105	14.17	19.84	0.021	P13295-ND	41.51	34.87	24.25	ECE-P2DP103HA
250WV DC • 5 Pin — RoHS Compliant									
3300	50 x 50	7.22	10.11	0.060	P13297-ND	29.71	24.96	17.35	ECE-P2EP332HX
4700	50 x 80	9.65	13.51	0.042	P13298-ND	32.90	27.64	19.22	ECE-P2EP472HA
5600	50 x 80	14.34	20.08	0.036	P13299-ND	37.14	31.20	21.69	ECE-P2EP562HX
7500	50 x 105	12.56	17.58	0.026	P13301-ND	43.84	36.83	25.61	ECE-P2EP752HA
400WV DC • 5 Pin — RoHS Compliant									
1000	50 x 50	4.76	6.66	0.199	P13302-ND	27.94	23.47	16.32	ECE-P2GP102HA
1500	50 x 63	6.12	8.57	0.133	P13304-ND	31.49	26.46	18.40	ECE-P2GP152HX
1800	50 x 80	7.09	9.93	0.111	P13305-ND	36.57	30.72	21.36	ECE-P2GP182HX
450WV DC • 5 Pin — RoHS Compliant									
820	50 x 50	4.31	6.03	0.263	P13308-ND	29.30	24.61	17.11	ECE-P2WP821HA
1000	50 x 63	4.96	6.94	0.216	P13309-ND	33.63	28.25	19.64	ECE-P2WP102HA
1200	50 x 63	5.43	7.60	0.180	P13310-ND	36.97	31.06	21.59	ECE-P2WP122HX
1500	50 x 80	6.15	8.61	0.144	P13311-ND	41.02	34.46	23.96	ECE-P2WP152HX
1800	50 x 92	7.02	9.83	0.120	P13312-ND	45.95	38.60	26.84	ECE-P2WP182HX
500WV DC • 5 Pin — RoHS Compliant									
560	50 x 50	3.52	4.93	0.355	P13313-ND	27.83	23.38	16.25	ECE-P2HP561HA
680	50 x 50	3.88	5.43	0.293	P13314-ND	30.86	25.92	18.02	ECE-P2HP681HX
820	50 x 63	4.47	6.26	0.222	P13315-ND	34.16	28.70	19.95	ECE-P2HP821HA
1200	50 x 80	5.35	7.49	0.166	P13317-ND	41.08	34.51	24.00	ECE-P2HP122HX

◆ ***RoHS Compliant***

Panasonic® T-HA Series Snap-In Capacitors

4 Pin Terminal

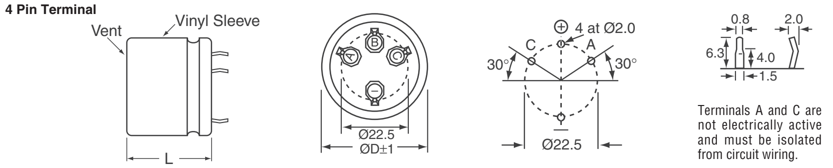

Terminals A and C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

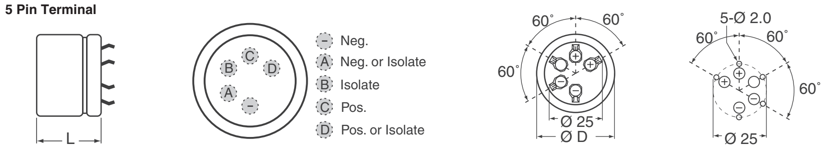

Features:

- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-NHE series with higher capacitance and ripple current per case size
- Industrial grade with 3000 hour endurance at 105° C
- 35 and 40mm diameter case sizes up to 80mm in length for 4 terminal mounting and 105mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 450VDC
Operating Temperature		-40°C ~ 105°C	-25°C ~ 105°C
Nominal Capacitance:	4 Pin	1200 ~ 120000µF	470 ~ 1500µF
	5 Pin	1000~250000µF(±20%Tol.)	330 ~ 2700µF(±20%Tol.)
Endurance:	4 Pin	2000 hours at 105°C with maximum specified ripple current	
	5 Pin	3000 hours at 105°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500

Cap (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms)		Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each			Panasonic Part No.
		120 Hz	10k~100kHz			1	50	200	
16WV DC • 4 Pin									
56000	35 x 50	6.00	6.90	0.018	P10612-ND	9.53	8.01	5.57	ECE-T1CA563EA
68000	35 x 60	6.62	7.61	0.017	P10613-ND	10.88	9.15	6.36	ECE-T1CA683EA
68000	40 x 50	7.29	8.38	0.019	P10614-ND	10.93	9.18	6.39	ECE-T1CA683FA
82000	40 x 60	7.66	8.81	0.017	P10615-ND◆	12.53	10.53	7.33	ECE-T1CA823FA
100000	35 x 80	8.03	9.23	0.015	P10616-ND◆	13.42	11.28	7.84	ECE-T1CA104EA
120000	40 x 80	8.79	10.11	0.014	P10617-ND◆	15.30	12.86	8.94	ECE-T1CA124FA
25WV DC • 4 Pin									
33000	35 x 50	5.50	6.33	0.020	P10618-ND◆	9.00	7.57	5.26	ECE-T1EA333EA
47000	35 x 60	6.56	7.54	0.017	P10619-ND◆	11.06	9.30	6.47	ECE-T1EA473EA
47000	40 x 50	6.47	7.44	0.019	P10620-ND	11.08	9.31	6.48	ECE-T1EA473FA
56000	35 x 80	7.25	8.34	0.017	P10621-ND	12.11	10.18	7.08	ECE-T1EA563EA
56000	40 x 60	7.17	8.25	0.015	P10622-ND	12.65	10.63	7.39	ECE-T1EA563FA
82000	40 x 80	8.68	9.98	0.014	P10623-ND◆	15.49	13.01	9.05	ECE-T1EA823FA
35WV DC • 4 Pin — RoHS Compliant									
22000	35 x 50	5.00	5.75	0.026	P10624-ND	9.62	8.08	5.62	ECE-T1VA223EA
27000	35 x 60	5.53	6.36	0.021	P10625-ND	11.08	9.31	6.47	ECE-T1VA273EA
27000	40 x 50	5.44	6.26	0.025	P10626-ND	11.09	9.32	6.48	ECE-T1VA273FA
33000	40 x 60	6.61	7.60	0.020	P10627-ND	12.85	10.79	7.51	ECE-T1VA333FA
39000	35 x 80	6.52	7.50	0.015	P10628-ND	13.52	11.36	7.90	ECE-T1VA393EA
47000	40 x 80	7.79	8.96	0.014	P10629-ND	15.49	13.02	9.05	ECE-T1VA473FA
50WV DC • 4 Pin									
15000	35 x 50	4.80	5.52	0.033	P10630-ND◆	9.74	8.19	5.69	ECE-T1HA153EA
18000	35 x 60	5.27	6.06	0.028	P10631-ND◆	11.10	9.33	6.49	ECE-T1HA183EA
22000	40 x 50	5.15	5.92	0.026	P10632-ND	12.34	10.37	7.21	ECE-T1HA223FA
27000	35 x 80	6.16	7.08	0.018	P10633-ND	13.86	11.65	8.10	ECE-T1HA273EA
27000	40 x 60	6.05	6.96	0.021	P10634-ND	14.49	12.17	8.47	ECE-T1HA273FA
39000	40 x 80	7.55	8.68	0.015	P10635-ND◆	17.87	15.02	10.44	ECE-T1HA393FA
63WV DC • 4 Pin — RoHS Compliant									
12000	35 x 50	4.40	5.06	0.035	P10636-ND	10.25	8.61	5.99	ECE-T1JA123EA
15000	35 x 60	4.92	5.66	0.028	P10637-ND	12.01	10.09	7.02	ECE-T1JA153EA
15000	40 x 50	4.80	5.52	0.033	P10638-ND	11.97	10.06	6.99	ECE-T1JA153FA
18000	35 x 80	5.79	6.66	0.023	P10639-ND	13.23	11.12	7.73	ECE-T1JA183EA
18000	40 x 60	5.39	6.20	0.028	P10640-ND	13.85	11.64	8.10	ECE-T1JA183FA
27000	40 x 80	6.59	7.58	0.018	P10641-ND	17.41	14.63	10.17	ECE-T1JA273FA
80WV DC • 4 Pin — RoHS Compliant									
6800	35 x 50	3.90	4.49	0.061	P10642-ND	9.88	8.30	5.78	ECE-T1KA682EA
8200	35 x 60	4.39	5.05	0.051	P10643-ND	11.42	9.60	6.68	ECE-T1KA822EA
8200	40 x 50	4.29	4.93	0.051	P10644-ND	12.23	10.28	7.15	ECE-T1KA822FA
10000	35 x 80	4.88	5.61	0.041	P10645-ND	13.68	11.50	7.99	ECE-T1KA103EA
10000	40 x 60	4.73	5.44	0.041	P10646-ND	13.65	11.47	7.98	ECE-T1KA103FA
15000	40 x 80	5.97	6.87	0.028	P10647-ND	16.56	13.91	9.67	ECE-T1KA153FA
100WV DC • 4 Pin — RoHS Compliant									
4700	35 x 50	3.80	4.37	0.071	P10648-ND	10.22	8.59	5.98	ECE-T2AA472EA
5600	35 x 60	4.06	4.67	0.059	P10649-ND	11.79	9.91	6.89	ECE-T2AA562EA
6800	40 x 50	4.57	5.26	0.049	P10650-ND	13.06	10.97	7.63	ECE-T2AA682FA
8200	35 x 80	5.15	5.92	0.040	P10651-ND	14.59	12.26	8.52	ECE-T2AA822EA
8200	40 x 60	5.02	5.77	0.040	P10652-ND	15.34	12.89	8.96	ECE-T2AA822FA
12000	40 x 80	6.44	7.41	0.028	P10653-ND	19.14	16.08	11.18	ECE-T2AA123FA
200WV DC • 4 Pin — RoHS Compliant									
2200	35 x 50	2.90	4.06	0.113	P10654-ND	11.36	9.55	6.64	ECE-T2DA222EA
2700	35 x 60	3.65	5.11	0.092	P10655-ND	12.77	10.73	7.46	ECE-T2DA272EA
2700	40 x 50	3.55	4.97	0.092	P10656-ND	13.30	11.18	7.77	ECE-T2DA272FA
3300	35 x 80	4.52	6.33	0.075	P10657-ND	14.96	12.57	8.74	ECE-T2DA332EA
3300	40 x 60	4.40	6.16	0.075	P10658-ND	16.29	13.69	9.52	ECE-T2DA332FA
4700	40 x 80	5.76	8.06	0.053	P10659-ND	19.26	16.18	11.25	ECE-T2DA472FA
250WV DC • 4 Pin									
1200	35 x 50	2.30	3.22	0.207	P10660-ND◆	11.05	9.28	6.46	ECE-T2EA122EA
1500	35 x 60	2.57	3.60	0.166	P10661-ND	12.53	10.53	7.32	ECE-T2EA152EA
1800	40 x 50	3.15	4.41	0.138	P10662-ND◆	14.54	12.22	8.50	ECE-T2EA182FA
2200	35 x 80	3.75	5.25	0.113	P10663-ND◆	16.49	13.86	9.63	ECE-T2EA222EA
2200	40 x 60	3.68	5.15	0.113	P10664-ND◆	17.91	15.05	10.47	ECE-T2EA222FA
3300	40 x 80	4.86	6.80	0.075	P10665-ND◆	22.28	18.72	13.02	ECE-T2EA332FA
350WV DC • 4 Pin									
680	35 x 50	2.15	3.01	0.366	P10666-ND	12.15	10.21	7.10	ECE-T2VA681EA
820	35 x 60	2.65	3.71	0.303	P10667-ND	13.56	11.40	7.92	ECE-T2VA821EA
820	40 x 50	2.65	3.71	0.303	P10668-ND◆	14.10	11.85	8.24	ECE-T2VA821FA
1200	35 x 80	3.22	4.51	0.207	P10669-ND◆	18.02	15.14	10.53	ECE-T2VA122EA
1200	40 x 60	3.22	4.51	0.207	P10670-ND	17.89	15.03	10.45	ECE-T2VA122FA
1500	40 x 80	3.75	5.25	0.166	P10671-ND	21.44	18.01	12.53	ECE-T2VA152FA
400WV DC • 4 Pin									
560	35 x 50	1.80	2.52	0.444	P10672-ND◆	12.46	10.47	7.28	ECE-T2GA561EA
680	40 x 50	2.17	3.04	0.366	P10673-ND	14.58	12.25	8.52	ECE-T2GA681FA
820	35 x 60	2.44	3.42	0.303	P10674-ND◆	16.11	13.53	9.41	ECE-T2GA821EA
1000	35 x 80	3.00	4.20	0.249	P10675-ND◆	18.72	15.73	10.94	ECE-T2GA102EA
1000	40 x 60	3.00	4.20	0.249	P10676-ND◆	18.57	15.61	10.85	ECE-T2GA102FA
1200	40 x 80	3.79	5.31	0.207	P10677-ND◆	21.69	18.23	12.67	ECE-T2GA122FA
450WV DC • 4 Pin — RoHS Compliant									
470	35 x 50	1.74	2.44	0.529	P10678-ND	13.59	11.42	7.94	ECE-T2WA471EA
560	35 x 60	2.15	3.01	0.444	P10679-ND	15.17	12.75	8.86	ECE-T2WA561EA
560	40 x 50	2.10	2.94	0.444	P10680-ND	15.75	13.24	9.21	ECE-T2WA561FA
680	40 x 60	2.50	3.78	0.303	P10681-ND	17.80	14.96	10.40	ECE-T2WA681FA
820	35 x 80	2.70	3.50	0.303	P10682-ND	20.44	17.18	11.94	ECE-T2WA821EA
1000	40 x 80	3.50	4.90	0.249	P10683-ND	24.05	20.21	14.05	ECE-T2WA102FA
50WV DC • 5 Pin — RoHS Compliant									
39000	50 x 63	8.40	9.66	0.016	P13192-ND	27.58	23.17	16.11	ECE-P1HA393HA
47000	50 x 80	9.19	10.57	0.014	P13193-ND	29.81	25.05	17.41	ECE-P1HA473HA
56000	50 x 92	9.79	11.26	0.012	P13194-ND	32.36	27.19	18.90	ECE-P1HA563HA
68000	50 x 105	10.42	11.98	0.011	P13195-ND	36.29	30.49	21.20	ECE-P1HA683HA
80WV DC • 5 Pin — RoHS Compliant									
12000	50 x 50	6.03	6.93	0.035	P13196-ND	24.18	20.31	14.12	ECE-P1KA123HA
15000	50 x 63	6.65	7.65	0.028	P13197-ND	26.59	22.34	15.53	ECE-P1KA153HA
18000	50 x 80	7.29	8.38	0.026	P13198-ND	28.16	23.66	16.45	ECE-P1KA183HA
22000	50 x 92	7.83	9.00	0.022	P13199-ND	30.61	25.72	17.88	ECE-P1KA223HA
27000	50 x 105	8.38	9.64	0.018	P13200-ND	33.78	28.38	19.73	ECE-P1KA273HA
100WV DC • 5 Pin — RoHS Compliant									
8200	50 x 50	6.14	7.06	0.030	P13201-ND	24.38	20.48	14.24	ECE-P2AA822HA
12000	50 x 63	7.17	8.25	0.022	P13202-ND	26.67	22.41	15.58	ECE-P2AA123HA
18000	50 x 92	8.64	9.94	0.017	P13204-ND	34.67	29.13	20.25	ECE-P2AA183HA
22000	50 x 105	9.32	10.72	0.015	P13205-ND	37.36	31.39	21.82	ECE-P2AA223HA
200WV DC • 5 Pin — RoHS Compliant									
3300	50 x 50	5.20	7.28	0.075	P13206-ND	25.17	21.15	14.70	ECE-P2DA332HA
3900	50 x 50	5.65	7.91	0.064	P13207-ND	27.77	23.33	16.22	ECE-P2DA392HX
4700	50 x 63	6.48	9.07	0.053	P13208-ND	30.16	25.34	17.62	ECE-P2DA472HX
5600	50 x 92	7.68	10.75	0.044	P13209-ND	32.58	27.37	19.03	ECE-P2DA562HA
6800	50 x 92	8.46	11.84	0.034	P13210-ND	35.76	30.04	20.89	ECE-P2DA682HX
250WV DC • 5 Pin — RoHS Compliant									
2200	50 x 50	4.35	6.09	0.098	P13212-ND	28.48	23.92	16.63	ECE-P2EA222HA
3300	50 x 63	5.48	7.67	0.065	P13214-ND	33.63	28.25	19.64	ECE-P2EA332HA
3900	50 x 80	6.10	8.54	0.055	P13215-ND	36.23	30.43	21.16	ECE-P2EA392HA
4300	50 x 92	6.67	9.34	0.050	P13216-ND	36.72	30.85	21.45	ECE-P2EA432HA
4700	50 x 92	6.93	9.70	0.046	P13217-ND	39.88	33.50	23.29	ECE-P2EA472HX
5600	50 x 105	7.67	10.74	0.039	P13218-ND	43.03	36.15	25.13	ECE-P2EA562HA
400WV DC • 5 Pin — RoHS Compliant									
820	40 x 50	2.58	3.61	0.202	P13189-ND	15.16	12.74	8.86	ECE-T2GA821FA
820	50 x 50	3.15	4.41	0.202	P13219-ND	28.35	23.81	16.56	ECE-P2GA821HA
1000	50 x 50	3.45	4.83	0.166	P13220-ND	29.59	24.86	17.28	ECE-P2GA102HA
1200	50 x 63	4.22	5.91	0.152	P13221-ND	32.20	27.05	18.81	ECE-P2GA122HA
1500	50 x 80	5.22	7.31	0.122	P13222-ND	34.58	29.05	20.20	ECE-P2GA152HA
1600	50 x 92	5.69	7.97	0.114	P13223-ND	38.69	32.50	22.60	ECE-P2GA162HA
1800	40 x 105	5.06	7.08	0.101	P13190-ND	40.29	33.84	23.53	ECE-T2GA182FA
450WV DC • 5 Pin — RoHS Compliant									
680	50 x 50	2.90	4.06	0.244	P13226-ND	30.14	25.32	17.60	ECE-P2WA681HA
820	50 x 50	3.42	4.79	0.222	P13227-ND	31.92	26.81	18.64	ECE-P2WA821HX
1200	50 x 80	4.70	6.58	0.152	P13229-ND	38.00	31.92	22.19	ECE-P2WA122HA
1300	50 x 92	5.18	7.25	0.140	P13230-ND	39.63	33.29	23.15	ECE-P2WA132HA
1500	50 x 105	6.03	8.44	0.122	P13231-ND	42.73	35.90	24.96	ECE-P2WA152HA

◆ ***RoHS Compliant***

VS Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

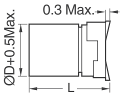

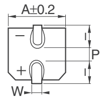

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥ 255°C)	Duration (Temp. ≥ 230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Impedance 120Hz	Working Voltage					
	6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Size Code	Dimensions – mm					
	D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (μA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100	250		Qty.	Pricing	
6.3	22	0.30	3.0	B	29	2,000	PCE4559CT-ND	.51	13.09	20.76	38.36	PCE4559TR-ND	2,000	71.00/M	EEE-0JA220AR
	33	0.35	3.0	B	22	1,000	PCE4560CT-ND	.42	12.06	20.10	37.69	PCE4560TR-ND	2,000	79.00/M	EEE-0JA330WAR
	47	0.30	3.0	C	46	2,000	PCE4563CT-ND	.45	12.93	21.55	40.41	PCE4563TR-ND	1,000	81.00	EEE-0JA470AR
	100	0.40	6.3	C	47	1,000	PCE4556CT-ND	.50	14.16	23.60	44.25	PCE4556TR-ND	1,000	88.00	EEE-0JA101WAR
	100	0.30	6.3	D	71	2,000	PCE4555CT-ND	.53	15.27	25.45	47.72	PCE4555TR-ND	1,000	95.00	EEE-0JA101AP
	330	0.30	20.7	D8	188	2,000	PCE4562CT-ND	.73	20.85	34.75	65.16	PCE4562TR-ND	900	123.30	EEE-0JA331XAP
	330	0.35	20.7	E	300	2,000	PCE4561CT-ND	.66	19.94	34.90	68.56	PCE4561TR-ND	1,000	140.00	EEE-0JA331AP
	470	0.35	29.6	F	380	1,000	PCE4564CT-ND	.86	25.87	45.28	88.94	PCE4564TR-ND	500	106.50	EEE-0JA471UAP
	1,000	0.35	63.0	G	700	2,000	PCE4557CT-ND	1.01	30.31	53.05	104.20	PCE4557TR-ND	500	124.50	EEE-0JA102AP
	1,500	0.50	94.5	G	750	1,000	PCE4558CT-ND	.87	27.70	49.86	107.34	PCE4558TR-ND	500	130.00	EEE-0JA152UAP
10	22	0.30	3.0	B	28	1,000	PCE4568CT-ND	.51	13.09	20.76	38.36	PCE4568TR-ND	2,000	71.00/M	EEE-1AA220WAR
	33	0.30	3.3	B	29	1,000	PCE4572CT-ND	.42	12.06	20.10	37.69	PCE4572TR-ND	2,000	79.00/M	EEE-1AA330WAR
	33	0.22	3.3	C	43	2,000	PCE4571CT-ND	.45	12.93	21.55	40.41	PCE4571TR-ND	1,000	81.00	EEE-1AA330AR
	47	0.30	4.7	C	47	1,000	PCE4574CT-ND	.50	14.16	23.60	44.25	PCE4574TR-ND	1,000	88.00	EEE-1AA470WAR
	100	0.30	10.0	C	50	1,000	PCE4566CT-ND	.50	14.16	23.60	44.25	PCE4566TR-ND	1,000	88.00	EEE-1AA101WAR
	100	0.26	10.0	D	70	2,000	PCE4565CT-ND	.53	15.27	25.45	47.72	PCE4565TR-ND	1,000	95.00	EEE-1AA101AP
	220	0.22	22.0	D8	173	2,000	PCE4570CT-ND	.73	20.85	34.75	65.16	PCE4570TR-ND	900	123.30	EEE-1AA221XAP
	220	0.26	22.0	E	250	2,000	PCE4569CT-ND	.66	19.94	34.90	68.56	PCE4569TR-ND	1,000	140.00	EEE-1AA221AP
	330	0.26	33.0	F	390	2,000	PCE4573CT-ND	.86	25.87	45.28	88.94	PCE4573TR-ND	500	106.50	EEE-1AA331AP
	470	0.26	47.0	F	390	1,000	PCE4576CT-ND	.86	25.87	45.28	88.94	PCE4576TR-ND	500	106.50	EEE-1AA471UAP
	470	0.26	47.0	G	400	2,000	PCE4575CT-ND	1.01	30.31	53.05	104.20	PCE4575TR-ND	500	124.50	EEE-1AA471AP
	1,000	0.35	100.0	G	580	1,000	PCE4567CT-ND	1.01	30.31	53.05	104.20	PCE4567TR-ND	500	124.50	EEE-1AA102UAP
16	10	0.16	3.0	B	28	2,000	PCE4577CT-ND	.51	13.09	20.76	38.36	PCE4577TR-ND	2,000	71.00/M	EEE-1CA100AR
	22	0.26	3.5	B	28	1,000	PCE4581CT-ND	.42	12.06	20.10	37.69	PCE4581TR-ND	2,000	79.00/M	EEE-1CA220WAR
	22	0.16	3.5	C	39	2,000	PCE4580CT-ND	.45	12.93	21.55	40.41	PCE4580TR-ND	1,000	81.00	EEE-1CA220AR
	33	0.26	5.2	C	35	1,000	PCE4584CT-ND	.50	14.16	23.60	44.25	PCE4584TR-ND	1,000	88.00	EEE-1CA330WAR
	47	0.26	7.5	C	39	1,000	PCE4588CT-ND	.50	14.16	23.60	44.25	PCE4588TR-ND	1,000	88.00	EEE-1CA470WAR
	47	0.16	7.5	D	70	2,000	PCE4587CT-ND	.53	15.27	25.45	47.72	PCE4587TR-ND	1,000	95.00	EEE-1CA470AP
	100	0.26	16.0	D	70	1,000	PCE4579CT-ND	.63	18.00	30.00	56.25	PCE4579TR-ND	1,000	112.00	EEE-1CA101WAP
	100	0.20	16.0	E	200	2,000	PCE4578CT-ND	.66	19.94	34.90	68.56	PCE4578TR-ND	1,000	140.00	EEE-1CA101AP
	220	0.20	35.2	D8	162	2,000	PCE4583CT-ND	.73	20.85	34.75	65.16	PCE4583TR-ND	900	123.30	EEE-1CA221XAP
	220	0.20	35.2	F	280	1,000	PCE4582CT-ND	.86	25.87	45.28	88.94	PCE4582TR-ND	500	106.50	EEE-1CA221UAP
	330	0.20	52.8	F	320	1,000	PCE4586CT-ND	.86	25.87	45.28	88.94	PCE4586TR-ND	500	106.50	EEE-1CA331UAP
	330	0.20	52.8	G	380	2,000	PCE4585CT-ND	1.01	30.31	53.05	104.20	PCE4585TR-ND	500	124.50	EEE-1CA331AP
	470	0.26	75.2	F	350	1,000	PCE4590CT-ND	.94	28.10	49.18	96.61	PCE4590TR-ND	500	115.50	EEE-1CA471UAP
	470	0.20	75.2	G	420	2,000	PCE4589CT-ND	1.01	30.31	53.05	104.20	PCE4589TR-ND	500	124.50	EEE-1CA471AP
25	4.7	0.14	3.0	B	22	2,000	PCE4606CT-ND	.51	13.09	20.76	38.36	PCE4606TR-ND	2,000	71.00/M	EEE-1EA4R7AR
	10	0.20	3.0	B	22	1,000	PCE4592CT-ND	.42	12.06	20.10	37.69	PCE4592TR-ND	2,000	79.00/M	EEE-1EA100WAR
	10	0.14	3.0	C	28	2,000	PCE4591CT-ND	.45	12.93	21.55	40.41	PCE4591TR-ND	1,000	81.00	EEE-1EA100AR
	22	0.20	5.5	C	35	1,000	PCE4597CT-ND	.50	14.16	23.60	44.25	PCE4597TR-ND	1,000	88.00	EEE-1EA220WAR
	22	0.14	5.5	D	55	,000	PCE4596CT-ND	.53	15.27	25.45	47.72	PCE4596TR-ND	1,000	95.00	EEE-1EA220AP
	33	0.20	8.2	C	42	1,000	PCE4601CT-ND	.50	14.16	23.60	44.25	PCE4601TR-ND	1,000	88.00	EEE-1EA330WAR
	33	0.14	8.2	D	65	2,000	PCE4600CT-ND	.53	15.27	25.45	47.72	PCE4600TR-ND	1,000	95.00	EEE-1EA330AP
	47	0.20	11.7	D	70	1,000	PCE4604CT-ND	.63	18.00	30.00	56.25	PCE4604TR-ND	1,000	112.00	EEE-1EA470WAP
	100	0.16	25.0	D8	143	2,000	PCE4595CT-ND	.73	20.85	34.75	65.16	PCE4595TR-ND	900	123.30	EEE-1EA101XAP
	100	0.16	25.0	E	91	1,000	PCE4594CT-ND	.66	19.94	34.90	68.56	PCE4594TR-ND	1,000	140.00	EEE-1EA101UAP
	100	0.16	25.0	F	180	2,000	PCE4593CT-ND	.86	25.87	45.28	88.94	PCE4593TR-ND	500	106.50	EEE-1EA101AP
	220	0.20	55.0	F	230	1,000	PCE4599CT-ND	.94	28.10	49.18	96.61	PCE4599TR-ND	500	115.50	EEE-1EA221UAP
	220	0.16	55.0	G	310	2,000	PCE4598CT-ND	1.01	30.31	53.05	104.20	PCE4598TR-ND	500	124.50	EEE-1EA221AP
	330	0.20	82.5	F	270	1,000	PCE4603CT-ND	.94	28.10	49.18	96.61	PCE4603TR-ND	500	115.50	EEE-1EA331UAP
	330	0.16	82.5	G	340	2,000	PCE4602CT-ND	1.01	30.31	53.05	104.20	PCE4602TR-ND	500	124.50	EEE-1EA331AP
	470	0.25	117.5	G	380	1,000	PCE4605CT-ND	.87	27.70	49.86	107.34	PCE4605TR-ND	500	130.00	EEE-1EA471UAP
35	4.7	0.12	3.0	B	22	2,000	PCE4643CT-ND	.51	13.09	20.76	38.36	PCE4643TR-ND	2,000	71.00/M	EEE-1VA4R7AR
	10	0.12	3.0	C	30	2,000	PCE4629CT-ND	.45	12.93	21.55	40.41	PCE4629TR-ND	1,000	81.00	EEE-1VA100AR
	10	0.16	3.5	B	22	1,000	PCE4630CT-ND	.42	12.06	20.10	37.69	PCE4630TR-ND	2,000	79.00/M	EEE-1VA100WAR
	22	0.16	7.7	C	36	1,000	PCE4635CT-ND	.50	14.16	23.60	44.25	PCE4635TR-ND	1,000	88.00	EEE-1VA220WAR

(Continued)

Panasonic VS Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
35	22	0.12	7.7	D	60	2,000	PCE4634CT-ND	.53	15.27	25.45	47.72	PCE4634TR-ND	1,000	95.00	EEE-1VA220AP
	33	0.16	11.5	D	60	1,000	PCE4639CT-ND	.63	18.00	30.00	56.25	PCE4639TR-ND	1,000	112.00	EEE-1VA330WAP
	33	0.14	11.5	E	130	2,000	PCE4638CT-ND	.66	19.94	34.90	68.56	PCE4638TR-ND	1,000	140.00	EEE-1VA330AP
	47	0.16	16.4	D	70	1,000	PCE4642CT-ND	.63	18.00	30.00	56.25	PCE4642TR-ND	1,000	112.00	EEE-1VA470WAP
	47	0.14	16.4	E	165	2,000	PCE4641CT-ND	.66	19.94	34.90	68.56	PCE4641TR-ND	1,000	140.00	EEE-1VA470AP
	100	0.14	35.0	D8	132	2,000	PCE4633CT-ND	.73	20.85	34.75	65.16	PCE4633TR-ND	900	123.30	EEE-1VA101XAP
	100	0.14	35.0	F	140	1,000	PCE4632CT-ND	.86	25.87	45.28	88.94	PCE4632TR-ND	500	106.50	EEE-1VA101UAP
	100	0.14	35.0	G	210	2,000	PCE4631CT-ND	1.01	30.31	53.05	104.20	PCE4631TR-ND	500	124.50	EEE-1VA101AP
	220	0.14	77.0	F	200	1,000	PCE4637CT-ND	.94	28.10	49.18	96.61	PCE4637TR-ND	500	115.50	EEE-1VA221UAP
	220	0.14	77.0	G	310	2,000	PCE4636CT-ND	1.01	30.31	53.05	104.20	PCE4636TR-ND	500	124.50	EEE-1VA221AP
	330	0.30	115.5	G	350	1,000	PCE4640CT-ND	.87	27.70	49.86	107.34	PCE4640TR-ND	500	130.00	EEE-1VA331UAP
50	0.1	0.12	3.0	B	1	2,000	PCE4625CT-ND	.51	13.09	20.76	38.36	PCE4625TR-ND	2,000	71.00/M	EEE-1HAR10AR
	0.22	0.12	3.0	B	2	2,000	PCE4626CT-ND	.51	13.09	20.76	38.36	PCE4626TR-ND	2,000	71.00/M	EEE-1HAR22AR
	0.33	0.12	3.0	B	3	2,000	PCE4627CT-ND	.51	13.09	20.76	38.36	PCE4627TR-ND	2,000	71.00/M	EEE-1HAR33AR
	0.47	0.12	3.0	B	5	2,000	PCE4628CT-ND	.51	13.09	20.76	38.36	PCE4628TR-ND	2,000	71.00/M	EEE-1HAR47AR
	1	0.12	3.0	B	10	2,000	PCE4611CT-ND	.51	13.09	20.76	38.36	PCE4611TR-ND	2,000	71.00/M	EEE-1HA1R0AR
	2.2	0.12	3.0	B	16	2,000	PCE4615CT-ND	.51	13.09	20.76	38.36	PCE4615TR-ND	2,000	71.00/M	EEE-1HA2R2AR
	3.3	0.12	3.0	B	16	2,000	PCE4619CT-ND	.51	13.09	20.76	38.36	PCE4619TR-ND	2,000	71.00/M	EEE-1HA3R3AR
	4.7	0.14	2.3	B	18	1,000	PCE4624CT-ND	.42	12.06	20.10	37.69	PCE4624TR-ND	2,000	79.00/M	EEE-1HA4R7WAR
	4.7	0.12	3.0	C	23	2,000	PCE4623CT-ND	.45	12.93	21.55	40.41	PCE4623TR-ND	1,000	81.00	EEE-1HA4R7AR
	10	0.14	5.0	C	27	1,000	PCE4608CT-ND	.50	14.16	23.60	44.25	PCE4608TR-ND	1,000	88.00	EEE-1HA100WAR
	10	0.12	5.0	D	35	2,000	PCE4607CT-ND	.53	15.27	25.45	47.72	PCE4607TR-ND	1,000	95.00	EEE-1HA100AP
	22	0.14	11.0	D	40	1,000	PCE4613CT-ND	.63	18.00	30.00	56.25	PCE4613TR-ND	1,000	112.00	EEE-1HA220WAP
	22	0.12	11.0	E	120	2,000	PCE4612CT-ND	.66	19.94	34.90	68.56	PCE4612TR-ND	1,000	140.00	EEE-1HA220AP
	33	0.14	16.5	D8	65	2,000	PCE4618CT-ND	.73	20.85	34.75	65.16	PCE4618TR-ND	900	123.30	EEE-1HA330XAP
	33	0.12	16.5	E	65	1,000	PCE4617CT-ND	.66	19.94	34.90	68.56	PCE4617TR-ND	1,000	140.00	EEE-1HA330UAP
	33	0.12	16.5	F	110	2,000	PCE4616CT-ND	.86	25.87	45.28	88.94	PCE4616TR-ND	500	106.50	EEE-1HA330AP
	47	0.14	23.5	D8	105	2,000	PCE4622CT-ND	.73	20.85	34.75	65.16	PCE4622TR-ND	900	123.30	EEE-1HA470XAP
	47	0.12	23.5	F	110	1,000	PCE4621CT-ND	.86	25.87	45.28	88.94	PCE4621TR-ND	500	106.50	EEE-1HA470UAP
	47	0.12	23.5	G	130	2,000	PCE4620CT-ND	1.01	30.31	53.05	104.20	PCE4620TR-ND	500	124.50	EEE-1HA470AP
	100	0.18	50.0	F	200	1,000	PCE4610CT-ND	.94	28.10	49.18	96.61	PCE4610TR-ND	500	115.50	EEE-1HA101UAP
	100	0.12	50.0	G	250	2,000	PCE4609CT-ND	1.01	30.31	53.05	104.20	PCE4609TR-ND	500	124.50	EEE-1HA101AP
	220	0.18	100.0	G	300	1,000	PCE4614CT-ND	.87	27.70	49.86	107.34	PCE4614TR-ND	500	130.00	EEE-1HA221UAP

Panasonic VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

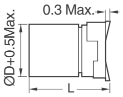

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow**: 3mm ~ 6mm case 250°C for 5 seconds; 8mm ~ 10mm case 235°C for 5 seconds

Following specified values:

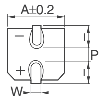

Impedance 120Hz	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions – mm D	L	A	I	W	P
A	3.0	5.4	3.3	1.5	0.55 ±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
4	22	0.37	3.0	A	19	1,000	PCE3851CT-ND	.54	13.92	22.08	40.80	PCE3851TR-ND	2,000	75.00/M	EEE-0GS220SR
	33	0.35	3.0	B	26	1,000	PCE3849CT-ND	.45	11.67	18.52	34.21	PCE3849TR-ND	2,000	62.80/M	EEE-0GA330SR
	47	0.35	3.0	B	34	1,000	PCE3850CT-ND	.45	11.67	18.52	34.21	PCE3850TR-ND	2,000	62.80/M	EEE-0GA470SR
	100	0.35	4.0	C	61	1,000	PCE3847CT-ND	.54	13.92	22.08	40.80	PCE3847TR-ND	1,000	78.75	EEE-0GA101SR
	220	0.35	8.8	D	82	1,000	PCE3848CT-ND	.47	13.56	22.60	42.38	PCE3848TR-ND	1,000	83.79	EEE-0GA221SP
6.3	22	0.35	3.0	A	20	1,000	PCE3865CT-ND	.54	13.92	22.08	40.80	PCE3865TR-ND	2,000	75.00/M	EEE-0JS220WR
	22	0.26	3.0	B	29	2,000	PCE3857CT-ND	.45	11.67	18.52	34.21	PCE3857TR-ND	2,000	62.80/M	EEE-0JA220SR
	33	0.35	3.0	B	22	1,000	PCE3859CT-ND	.50	12.91	20.47	37.83	PCE3859TR-ND	2,000	69.40/M	EEE-0JA330WR
	47	0.35	3.0	B	36	1,000	PCE3863CT-ND	.50	12.91	20.47	37.83	PCE3863TR-ND	2,000	69.40/M	EEE-0JA470WR
	47	0.26	3.0	C	46	2,000	PCE3862CT-ND	.54	13.92	22.08	40.80	PCE3862TR-ND	1,000	78.75	EEE-0JA470SR
	100	0.35	6.3	C	47	1,000	PCE3853CT-ND	.44	12.54	20.90	39.19	PCE3853TR-ND	1,000	77.33	EEE-0JA101WR
	100	0.26	6.3	D	71	2,000	PCE3852CT-ND	.47	13.56	22.60	42.38	PCE3852TR-ND	1,000	83.79	EEE-0JA101SP
	220	0.35	13.9	D	74	1,000	PCE3858CT-ND	.56	16.02	26.70	50.06	PCE3858TR-ND	1,000	99.18	EEE-0JA221WP
	330	0.26	20.8	D8	188	2,000	PCE3861CT-ND	.65	18.48	30.80	57.75	PCE3861TR-ND	900	108.18	EEE-0JA331XP
	330	0.35	20.8	E	300	2,000	PCE3860CT-ND	.59	17.76	31.08	61.05	PCE3860TR-ND	1,000	122.74	EEE-0JA331P
	470	0.35	29.6	F	380	2,000	PCE3864CT-ND	.77	23.02	40.28	79.12	PCE3864TR-ND	500	93.50	EEE-0JA471P
	1000	0.35	63.0	F	500	2,000	PCE3855CT-ND	.83	24.98	43.72	85.88	PCE3855TR-ND	500	101.50	EEE-0JA102UP
	1000	0.35	63.0	G	700	2,000	PCE3854CT-ND	.90	26.98	47.21	92.73	PCE3854TR-ND	500	109.60	EEE-0JA102P
	1500	0.35	94.5	G	750	2,000	PCE3856CT-ND	.99	29.59	51.79	101.72	PCE3856TR-ND	500	120.30	EEE-0JA152P
10	22	0.30	3.0	B	28	1,000	PCE3869CT-ND	.45	11.67	18.52	34.21	PCE3869TR-ND	2,000	62.80/M	EEE-1AA220WR
	33	0.30	3.3	B	29	1,000	PCE3873CT-ND	.50	12.91	20.47	37.83	PCE3873TR-ND	2,000	69.40/M	EEE-1AA330WR
	33	0.20	3.3	C	43	2,000	PCE3872CT-ND	.54	13.92	22.08	40.80	PCE3872TR-ND	1,000	78.75	EEE-1AA330SR
	47	0.30	4.7	C	43	1,000	PCE3875CT-ND	.44	12.54	20.90	39.19	PCE3875TR-ND	1,000	77.33	EEE-1AA470WR
	100	0.30	10.0	C	50	1,000	PCE3867CT-ND	.44	12.54	20.90	39.19	PCE3867TR-ND	1,000	77.33	EEE-1AA101WR
	100	0.26	10.0	D	70	2,000	PCE3866CT-ND	.47	13.56	22.60	42.38	PCE3866TR-ND	1,000	83.79	EEE-1AA101SP
	220	0.20	22.0	D8	173	2,000	PCE3871CT-ND	.65	18.48	30.80	57.75	PCE3871TR-ND	900	108.18	EEE-1AA221XP
	220	0.26	22.0	E	250	2,000	PCE3870CT-ND	.59	17.76	31.08	61.05	PCE3870TR-ND	1,000	122.74	EEE-1AA221P

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic VS Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100	250		Qty.	Pricing	
10	330	0.26	33.0	F	390	2,000	PCE3874CT-ND	.77	23.02	40.28	79.12	PCE3874TR-ND	500	93.50	EEE-1AA331P
	470	0.26	47.0	F	390	2,000	PCE3877CT-ND	.77	23.02	40.28	79.12	PCE3877TR-ND	500	93.50	EEE-1AA471UP
	470	0.26	47.0	G	400	2,000	PCE3876CT-ND	.90	26.98	47.21	92.73	PCE3876TR-ND	500	109.60	EEE-1AA471P
	1000	0.26	100.0	G	580	2,000	PCE3868CT-ND	.90	26.98	47.21	92.73	PCE3868TR-ND	500	109.60	EEE-1AA102P
16	10	0.18	3.0	A	20	1,000	PCE3893CT-ND	.54	13.92	22.08	40.80	PCE3893TR-ND	2,000	75.00/M	EEE-1CS100SR
	10	0.16	3.0	B	28	2,000	PCE3878CT-ND	.45	11.67	18.52	34.21	PCE3878TR-ND	2,000	62.80/M	EEE-1CA100SR
	22	0.26	3.5	B	28	1,000	PCE3882CT-ND	.50	12.91	20.47	37.83	PCE3882TR-ND	2,000	69.40/M	EEE-1CA220WR
	22	0.16	3.5	C	39	2,000	PCE3881CT-ND	.54	13.92	22.08	40.80	PCE3881TR-ND	1,000	78.75	EEE-1CA220SR
	33	0.26	5.3	C	35	1,000	PCE3886CT-ND	.44	12.54	20.90	39.19	PCE3886TR-ND	1,000	77.33	EEE-1CA330WR
	47	0.26	7.5	C	39	1,000	PCE3890CT-ND	.44	12.54	20.90	39.19	PCE3890TR-ND	1,000	77.33	EEE-1CA470WR
	47	0.16	7.5	D	70	2,000	PCE3889CT-ND	.47	13.56	22.60	42.38	PCE3889TR-ND	1,000	83.79	EEE-1CA470SP
	100	0.26	16.0	D	70	1,000	PCE3880CT-ND	.56	16.02	26.70	50.06	PCE3880TR-ND	1,000	99.18	EEE-1CA101WP
	100	0.20	16.0	E	200	2,000	PCE3879CT-ND	.59	17.76	31.08	61.05	PCE3879TR-ND	1,000	122.74	EEE-1CA101P
	220	0.16	35.2	D8	162	2,000	PCE3885CT-ND	.65	18.48	30.80	57.75	PCE3885TR-ND	900	108.18	EEE-1CA221XP
	220	0.20	35.2	E	200	2,000	PCE3884CT-ND	.59	17.76	31.08	61.05	PCE3884TR-ND	1,000	122.74	EEE-1CA221UP
	220	0.20	35.2	F	280	2,000	PCE3883CT-ND	.77	23.02	40.28	79.12	PCE3883TR-ND	500	93.50	EEE-1CA221P
	330	0.20	52.8	F	320	2,000	PCE3888CT-ND	.77	23.02	40.28	79.12	PCE3888TR-ND	500	93.50	EEE-1CA331UP
	330	0.20	52.8	G	380	2,000	PCE3887CT-ND	.90	26.98	47.21	92.73	PCE3887TR-ND	500	109.60	EEE-1CA331P
	470	0.20	75.2	F	350	2,000	PCE3892CT-ND	.83	24.98	43.72	85.88	PCE3892TR-ND	500	101.50	EEE-1CA471UP
	470	0.20	75.2	G	420	2,000	PCE3891CT-ND	.90	26.98	47.21	92.73	PCE3891TR-ND	500	109.60	EEE-1CA471P
25	4.7	0.16	3.0	A	12	1,000	PCE3911CT-ND	.54	13.92	22.08	40.80	PCE3911TR-ND	2,000	75.00/M	EEE-1ES4R7SR
	4.7	0.14	3.0	B	22	2,000	PCE3910CT-ND	.45	11.67	18.52	34.21	PCE3910TR-ND	2,000	62.80/M	EEE-1EA4R7SR
	10	0.20	3.0	B	22	1,000	PCE3895CT-ND	.50	12.91	20.47	37.83	PCE3895TR-ND	2,000	69.40/M	EEE-1EA100WR
	10	0.14	3.0	C	28	2,000	PCE3894CT-ND	.54	13.92	22.08	40.80	PCE3894TR-ND	1,000	78.75	EEE-1EA100SR
	22	0.20	5.5	C	35	1,000	PCE3900CT-ND	.44	12.54	20.90	39.19	PCE3900TR-ND	1,000	77.33	EEE-1EA220WR
	22	0.14	5.5	D	55	2,000	PCE3899CT-ND	.47	13.56	22.60	42.38	PCE3899TR-ND	1,000	83.79	EEE-1EA220SP
	33	0.20	8.3	C	42	1,000	PCE3904CT-ND	.44	12.54	20.90	39.19	PCE3904TR-ND	1,000	77.33	EEE-1EA330WR
	33	0.14	8.3	D	65	2,000	PCE3903CT-ND	.47	13.56	22.60	42.38	PCE3903TR-ND	1,000	83.79	EEE-1EA330SP
	47	0.20	11.8	D	70	1,000	PCE3908CT-ND	.56	16.02	26.70	50.06	PCE3908TR-ND	1,000	99.18	EEE-1EA470WP
	100	0.14	25.0	D8	143	2,000	PCE3898CT-ND	.65	18.48	30.80	57.75	PCE3898TR-ND	900	108.18	EEE-1EA101XP
	100	0.16	25.0	E	91	2,000	PCE3897CT-ND	.59	17.76	31.08	61.05	PCE3897TR-ND	1,000	122.74	EEE-1EA101UP
	100	0.16	25.0	F	180	2,000	PCE3896CT-ND	.77	23.02	40.28	79.12	PCE3896TR-ND	500	93.50	EEE-1EA101P
	220	0.16	55.0	F	230	2,000	PCE3902CT-ND	.83	24.98	43.72	85.88	PCE3902TR-ND	500	101.50	EEE-1EA221UP
	220	0.16	55.0	G	310	2,000	PCE3901CT-ND	.90	26.98	47.21	92.73	PCE3901TR-ND	500	109.60	EEE-1EA221P
	330	0.16	82.5	F	270	2,000	PCE3906CT-ND	.83	24.98	43.72	85.88	PCE3906TR-ND	500	101.50	EEE-1EA331UP
	330	0.16	82.5	G	340	2,000	PCE3905CT-ND	.90	26.98	47.21	92.73	PCE3905TR-ND	500	109.60	EEE-1EA331P
	470	0.16	117.5	G	380	2,000	PCE3909CT-ND	.99	29.59	51.79	101.72	PCE3909TR-ND	500	120.30	EEE-1EA471P
35	2.2	0.14	3.0	A	8	1,000	PCE3963CT-ND	.54	13.92	22.08	40.80	PCE3963TR-ND	2,000	75.00/M	EEE-1VS2R2SR
	3.3	0.14	3.0	A	10	1,000	PCE3964CT-ND	.54	13.92	22.08	40.80	PCE3964TR-ND	2,000	75.00/M	EEE-1VS3R3SR
	4.7	0.12	3.0	B	22	2,000	PCE3962CT-ND	.45	11.67	18.52	34.21	PCE3962TR-ND	2,000	62.80/M	EEE-1VA4R7SR
	10	0.16	3.5	B	22	1,000	PCE3948CT-ND	.50	12.91	20.47	37.83	PCE3948TR-ND	2,000	69.40/M	EEE-1VA100WR
	10	0.12	3.5	C	30	2,000	PCE3947CT-ND	.54	13.92	22.08	40.80	PCE3947TR-ND	1,000	78.75	EEE-1VA100SR
	22	0.16	7.7	C	36	1,000	PCE3953CT-ND	.44	12.54	20.90	39.19	PCE3953TR-ND	1,000	77.33	EEE-1VA220WR
	22	0.12	7.7	D	60	2,000	PCE3952CT-ND	.47	13.56	22.60	42.38	PCE3952TR-ND	1,000	83.79	EEE-1VA220SP
	33	0.16	11.6	D	60	1,000	PCE3958CT-ND	.56	16.02	26.70	50.06	PCE3958TR-ND	1,000	99.18	EEE-1VA330WP
	33	0.14	11.6	E	130	2,000	PCE3956CT-ND	.59	17.76	31.08	61.05	PCE3956TR-ND	1,000	122.74	EEE-1VA330P
	47	0.16	16.5	D	70	1,000	PCE3961CT-ND	.56	16.02	26.70	50.06	PCE3961TR-ND	1,000	99.18	EEE-1VA470WP
	47	0.14	16.5	E	165	2,000	PCE3960CT-ND	.59	17.76	31.08	61.05	PCE3960TR-ND	1,000	122.74	EEE-1VA470P
	100	0.12	35.0	D8	132	2,000	PCE3951CT-ND	.65	18.48	30.80	57.75	PCE3951TR-ND	900	108.18	EEE-1VA101XP
	100	0.14	35.0	F	140	2,000	PCE3950CT-ND	.77	23.02	40.28	79.12	PCE3950TR-ND	500	93.50	EEE-1VA101UP
	100	0.14	35.0	G	210	2,000	PCE3949CT-ND	.90	26.98	47.21	92.73	PCE3949TR-ND	500	109.60	EEE-1VA101P
	220	0.14	77.0	F	200	2,000	PCE3955CT-ND	.83	24.98	43.72	85.88	PCE3955TR-ND	500	101.50	EEE-1VA221UP
	220	0.14	77.0	G	310	2,000	PCE3954CT-ND	.90	26.98	47.21	92.73	PCE3954TR-ND	500	109.60	EEE-1VA221P
	330	0.14	115.5	G	350	2,000	PCE3959CT-ND	.99	29.59	51.79	101.72	PCE3959TR-ND	500	120.30	EEE-1VA331P
50	0.1	0.14	3.0	A	1	1,000	PCE3936CT-ND	.54	13.92	22.08	40.80	PCE3936TR-ND	2,000	75.00/M	EEE-1HS0R1SR
	0.1	0.12	3.0	B	1	2,000	PCE3913CT-ND	.45	11.67	18.52	34.21	PCE3913TR-ND	2,000	62.80/M	EEE-1HA0R1SR
	0.22	0.14	3.0	A	2	1,000	PCE3938CT-ND	.54	13.92	22.08	40.80	PCE3938TR-ND	2,000	75.00/M	EEE-1HSR22SR
	0.22	0.12	3.0	B	2	2,000	PCE3932CT-ND	.45	11.67	18.52	34.21	PCE3932TR-ND	2,000	62.80/M	EEE-1HAR22SR
	0.33	0.14	3.0	A	3	1,000	PCE3939CT-ND	.54	13.92	22.08	40.80	PCE3939TR-ND	2,000	75.00/M	EEE-1HSR33SR
	0.33	0.12	3.0	B	3	2,000	PCE3933CT-ND	.45	11.67	18.52	34.21	PCE3933TR-ND	2,000	62.80/M	EEE-1HAR33SR
	0.47	0.14	3.0	A	5	1,000	PCE3940CT-ND	.54	13.92	22.08	40.80	PCE3940TR-ND	2,000	75.00/M	EEE-1HSR47SR
	0.47	0.12	3.0	B	5	2,000	PCE3934CT-ND	.45	11.67	18.52	34.21	PCE3934TR-ND	2,000	62.80/M	EEE-1HAR47SR
	1	0.14	3.0	A	8	1,000	PCE3935CT-ND	.54	13.92	22.08	40.80	PCE3935TR-ND	2,000	75.00/M	EEE-1HS010SR
	1	0.12	3.0	B	10	2,000	PCE3912CT-ND	.45	11.67	18.52	34.21	PCE3912TR-ND	2,000	62.80/M	EEE-1HA010SR
	2.2	0.14	3.0	A	8	1,000	PCE3937CT-ND	.54	13.92	22.08	40.80	PCE3937TR-ND	2,000	75.00/M	EEE-1HS2R2SR
	2.2	0.12	3.0	B	16	2,000	PCE3922CT-ND	.45	11.67	18.52	34.21	PCE3922TR-ND	2,000	62.80/M	EEE-1HA2R2SR
	3.3	0.12	3.0	B	16	2,000	PCE3926CT-ND	.45	11.67	18.52	34.21	PCE3926TR-ND	2,000	62.80/M	EEE-1HA3R3SR
	4.7	0.14	3.0	B	18	1,000	PCE3931CT-ND	.50	12.91	20.47	37.83	PCE3931TR-ND	2,000	69.40/M	EEE-1HA4R7WR
	4.7	0.12	3.0	C	23	2,000	PCE3930CT-ND	.54	13.92	22.08	40.80	PCE3930TR-ND	1,000	78.75	EEE-1HA4R7SR
	10	0.14	5.0	C	27	1,000	PCE3915CT-ND	.44	12.54	20.90	39.19	PCE3915TR-ND	1,000	77.33	EEE-1HA100WR
	10	0.12	5.0	D	35	2,000	PCE3914CT-ND	.47	13.56	22.60	42.38	PCE3914TR-ND	1,000	83.79	EEE-1HA100SP
	22	0.14	11.0	D	40	1,000	PCE3920CT-ND	.56	16.02	26.70	50.06	PCE3920TR-ND	1,000	99.18	EEE-1HA220WP
	22	0.12	11.0	E	120	2,000	PCE3918CT-ND	.59	17.76	31.08	61.05	PCE3918TR-ND	1,000	122.74	EEE-1HA220P
	33	0.12	16.5	D8	85	2,000	PCE3925CT-ND	.65	18.48	30.80	57.75	PCE3925TR-ND	900	108.18	EEE-1HA330XP
	33	0.12	16.5	E	65	2,000	PCE3924CT-ND	.59	17.76	31.08	61.05	PCE3924TR-ND	1,000	122.74	EEE-1HA330UP
	33	0.12	16.5	F	110	2,000	PCE3923CT-ND	.77	23.02	40.28	79.12	PCE3923TR-ND	500	93.50	EEE-1HA330P
	47	0.12	23.5	D8	105	2,000	PCE3929CT-ND	.65	18.48	30.80	57.75	PCE3929TR-ND	900	108.18	EEE-1HA470XP
	47	0.12	23.5	F	110	2,000	PCE3928CT-ND	.77	23.02	40.28	79.12	PCE3928TR-ND	500	93.50	EEE-1HA470UP
	47	0.12	23.5	G	130	2,000	PCE3927CT-ND	.90	26.98	47.21	92.73	PCE3927TR-ND	500	109.60	EEE-1HA470P
	100	0.12	50.0	F	200	2,000	PCE3917CT-ND	.83	24.98	43.72	85.88	PCE3917TR-ND	500	101.50	EEE-1HA101UP
	100	0.12	50.0	G	250	2,000	PCE3916CT-ND	.90	26.98	47.21	92.73	PCE3916TR-ND	500	109.60	EEE-1HA101P
	220	0.12	110.0	G	300	2,000	PCE3921CT-ND	.99	29.59	51.79	101.72	PCE3921TR-ND	500	120.30	EEE-1HA221P
63	22	0.18	13.9	E	40	2,000	PCE3944CT-ND	.66	19.75	34.57	67.90	PCE3944TR-ND	1,000	136.17	EEE-1JA220UP
	22	0.18	13.9	F	40	2,000	PCE3943CT-ND	.84	25.32	44.31	87.04	PCE3943TR-ND	500	102.90	EEE-1JA220P
	33	0.18	20.8	F	45	2,000	PCE3945CT-ND	.84	25.32	44.31	87.04	PCE3945TR-ND	500	102.90	EEE-1JA330P
	47	0.18	29.6	F	45	2,000	PCE3946CT-ND	.84	25.32	44.31	87.04	PCE3946TR-ND	500	102.90	EEE-1JA470UP
	100	0.18	63.0	G	60	2,000	PCE3942CT-ND	.99	29.59	51.79	101.72	PCE3942TR-ND	500	120.30	EEE-1JA101P
100	3.3	0.18	3.3	E	50	2,000	PCE3970CT-ND	.66	19.75	34.57	67.90	PCE3970TR-ND	1,000	136.17	EEE-2AA3R3P
	4.7	0.18	4.7	E	50	2,000	PCE3972CT-ND	.72	21.70	37.97	74.58	PCE3972TR-ND	1,000	149.94	EEE-2AA4R7UP
	4.7	0.18	4.7	F	80	2,000	PCE3971CT-ND	.84	25.32	44.31	87.04	PCE3971TR-ND	500	102.90	EEE-2AA4R7P
	10	0.18	10.0	E	50	2,000	PCE3966CT-ND	.72	21.70	37.97	74.58	PCE3966TR-ND	1,000	149.94	EEE-2AA100UP
	10	0.18	10.0	F	85	2,000	PCE3965CT-ND	.84	25.32	44.31	87.04	PCE3965TR-ND	500	102.90	EEE-2AA100P
	22	0.18	22.0	F	55	2,000	PCE3968CT-ND	.92	27.60	48.30	94.88	PCE3968TR-ND	500	112.30	EEE-2AA220UP
	22	0.18	22.0	G	85	2,000	PCE3967CT-ND	.99	29.59	51.79	101.72	PCE3967TR-ND	500	120.30	EEE-2AA220P
	33	0.18	33.0	G	90	2,000	PCE3969CT-ND	.99	29.59	51.79	101.72	PCE3969TR-ND	500	120.30	EEE-2AA330P

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

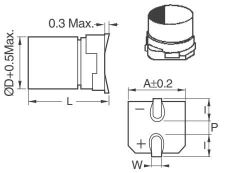

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage								
	4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions - mm					
	D	L	A	l	W	P
A	3.0	5.4	3.3	1.5	0.55 ±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
D2	6.3	5.7	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100	250		Qty.	Pricing	
VS General Purpose Low Profile Series: –40°C ~ 85°C (2000 Hour Life)														
4	22	0.37	3.0	A	19	PCE3051CT-ND	.59	16.80	28.00	52.50	PCE3051TR-ND	2,000	76.32/M	ECE-V0GS220SR
	33	0.35	3.0	B	26	PCE3052CT-ND	.50	14.40	24.00	45.00	PCE3052TR-ND	2,000	71.20/M	ECE-V0GA330SR
	47	0.35	3.0	B	34	PCE3053CT-ND	.50	14.40	24.00	45.00	PCE3053TR-ND	2,000	71.20/M	ECE-V0GA470SR
	100	0.35	4.0	C	61	PCE3054CT-ND	.56	16.80	29.40	57.75	PCE3054TR-ND	1,000	80.56	ECE-V0GA101SR
	220	0.35	8.8	D	82	PCE3055CT-ND	.67	19.20	32.00	60.00	PCE3055TR-ND	1,000	95.00	ECE-V0GA221SP
6.3	22	0.35	3.0	A	20	PCE3308CT-ND	.59	16.80	28.00	52.50	PCE3308TR-ND	2,000	76.32/M	ECE-V0JS220WR
	22	0.26	3.0	B	29	PCE3056CT-ND	.63	18.00	30.00	56.25	PCE3056TR-ND	2,000	71.20/M	ECE-V0JA220SR
	47	0.35	3.0	B	36	PCE3309CT-ND	.56	15.90	26.50	49.69	PCE3309TR-ND	2,000	78.80/M	ECE-V0JA470WR
	47	0.26	3.0	C	46	PCE3057CT-ND	.56	16.80	29.40	57.75	PCE3057TR-ND	1,000	80.56	ECE-V0JA470SR
	100	0.26	6.3	D	71	PCE3058CT-ND	.64	19.20	33.60	66.00	PCE3058TR-ND	1,000	95.00	ECE-V0JA101SP
	220	0.35	13.8	D	74	PCE3310CT-ND	.66	19.68	34.44	67.65	PCE3310TR-ND	1,000	112.29	ECE-V0JA221WP
	330	0.26	20.8	D8	188	PCE3351CT-ND	.80	24.00	42.00	82.50	PCE3351TR-ND	900	122.58	ECE-V0JA331XP
	330	0.35	20.8	E	300	PCE2034CT-ND	.81	26.00	46.80	100.75	PCE2034TR-ND	1,000	139.06	ECE-V0JA331P
	470	0.35	29.6	F	380	PCE2035CT-ND	1.03	30.96	54.18	106.43	PCE2035TR-ND	500	106.00	ECE-V0JA471P
	1000	0.35	63.0	F	500	PCE3173CT-ND	.89	28.40	51.12	110.05	PCE3173TR-ND	500	115.10	ECE-V0JA102UP
	1000	0.35	63.0	G	700	PCE2038CT-ND	1.01	32.20	57.96	124.78	PCE2038TR-ND	500	124.20	ECE-V0JA102P
	1500	0.35	94.5	G	750	PCE3174CT-ND	1.11	35.40	63.72	137.18	PCE3174TR-ND	500	129.49	ECE-V0JA152P
10	33	0.30	3.3	B	29	PCE3175CT-ND	.55	15.60	26.00	48.75	PCE3175TR-ND	2,000	78.80/M	ECE-V1AA330WR
	33	0.20	3.3	C	43	PCE3059CT-ND	.59	16.80	28.00	52.50	PCE3059TR-ND	1,000	80.56	ECE-V1AA330SR
	47	0.20	4.7	D	65	PCE3060CT-ND	.73	21.84	38.22	75.08	PCE3060TR-ND	1,000	154.70	ECE-V1AA470SP
	100	0.30	10.0	C	50	PCE3311CT-ND	.66	19.68	34.44	67.65	PCE3311TR-ND	1,000	87.78	ECE-V1AA101WR
	100	0.26	10.0	D	70	PCE3176CT-ND	.68	20.40	35.70	70.13	PCE3176TR-ND	1,000	95.00	ECE-V1AA101SP
	220	0.20	22.0	D8	173	PCE3352CT-ND	.96	28.80	50.40	99.00	PCE3352TR-ND	900	122.58	ECE-V1AA221XP
	220	0.26	22.0	E	250	PCE2040CT-ND	.96	28.80	50.40	99.00	PCE2040TR-ND	1,000	139.06	ECE-V1AA221P
	330	0.26	33.0	F	390	PCE2041CT-ND	1.03	30.96	54.18	106.43	PCE2041TR-ND	500	106.00	ECE-V1AA331P
	470	0.26	47.0	G	400	PCE2042CT-ND	1.01	32.20	57.96	124.78	PCE2042TR-ND	500	124.20	ECE-V1AA471P
	470	0.26	47.0	F	390	PCE3177CT-ND	1.03	30.96	54.18	106.43	PCE3177TR-ND	500	106.00	ECE-V1AA471UP
	1000	0.26	100.0	G	580	PCE3178CT-ND	1.01	32.20	57.96	124.78	PCE3178TR-ND	500	124.20	ECE-V1AA102P
16	10	0.18	3.0	A	20	PCE3061CT-ND	.59	16.80	28.00	52.50	PCE3061TR-ND	2,000	76.32/M	ECE-V1CS100SR
	10	0.16	3.0	B	28	PCE3062CT-ND	.59	17.76	31.08	61.05	PCE3062TR-ND	2,000	71.20/M	ECE-V1CA100SR
	22	0.26	3.5	B	28	PCE3179CT-ND	.70	20.10	33.50	62.81	PCE3179TR-ND	2,000	78.80/M	ECE-V1CA220WR
	22	0.16	3.5	C	39	PCE3063CT-ND	.56	16.80	29.40	57.75	PCE3063TR-ND	1,000	80.56	ECE-V1CA220SR
	33	0.26	5.3	C	35	PCE3180CT-ND	.63	18.00	30.00	56.25	PCE3180TR-ND	1,000	87.78	ECE-V1CA330WR
	47	0.26	7.5	C	39	PCE3181CT-ND	.62	18.48	32.34	63.53	PCE3181TR-ND	1,000	87.78	ECE-V1CA470WR
	47	0.16	7.5	D	70	PCE3064CT-ND	.64	19.20	33.60	66.00	PCE3064TR-ND	1,000	95.00	ECE-V1CA470SP
	100	0.26	16.0	D	70	PCE3182CT-ND	.80	24.00	42.00	82.50	PCE3182TR-ND	1,000	112.29	ECE-V1CA101WP
	100	0.20	16.0	E	200	PCE2043CT-ND	.96	28.80	50.40	99.00	PCE2043TR-ND	1,000	139.06	ECE-V1CA101P
	220	0.16	35.2	D8	162	PCE3353CT-ND	.94	30.00	54.00	116.25	PCE3353TR-ND	900	122.58	ECE-V1CA221XP
	220	0.20	35.2	E	200	PCE3275CT-ND	.94	30.00	54.00	116.25	PCE3275TR-ND	1,000	139.06	ECE-V1CA221UP
	220	0.20	35.2	F	280	PCE2044CT-ND	1.01	34.20	62.10	135.00	PCE2044TR-ND	500	106.00	ECE-V1CA221P
	330	0.20	52.8	F	320	PCE3183CT-ND	1.07	36.10	65.55	142.50	PCE3183TR-ND	500	106.00	ECE-V1CA331UP
	330	0.20	52.8	G	380	PCE2045CT-ND	1.24	41.80	75.90	165.00	PCE2045TR-ND	500	124.20	ECE-V1CA331P
	470	0.20	75.2	F	350	PCE3184CT-ND	1.13	38.00	69.00	150.00	PCE3184TR-ND	500	115.10	ECE-V1CA471UP
	470	0.20	75.2	G	420	PCE2046CT-ND	1.24	41.80	75.90	165.00	PCE2046TR-ND	500	124.20	ECE-V1CA471P
25	4.7	0.16	3.0	A	12	PCE3065CT-ND	.59	16.80	28.00	52.50	PCE3065TR-ND	2,000	76.32/M	ECE-V1ES4R7SR
	4.7	0.14	3.0	B	22	PCE3066CT-ND	.50	14.40	24.00	45.00	PCE3066TR-ND	2,000	71.20/M	ECE-V1EA4R7SR
	10	0.14	3.0	C	28	PCE3067CT-ND	.64	19.20	33.60	66.00	PCE3067TR-ND	1,000	80.56	ECE-V1EA100SR
	22	0.14	5.5	D	55	PCE3068CT-ND	.67	19.20	32.00	60.00	PCE3068TR-ND	1,000	95.00	ECE-V1EA220SP
	33	0.20	8.3	C	42	PCE3276CT-ND	.62	18.48	32.34	63.53	PCE3276TR-ND	1,000	87.78	ECE-V1EA330WR
	33	0.14	8.3	D	65	PCE3069CT-ND	.64	19.20	33.60	66.00	PCE3069TR-ND	1,000	95.00	ECE-V1EA330SP
	47	0.16	11.8	D2	70	PCE3185CT-ND	.65	19.44	34.02	66.83	PCE3185TR-ND	1,000	120.84	ECE-V1EA470UP
	100	0.14	25.0	D8	143	PCE3354CT-ND	.96	28.80	50.40	99.00	PCE3354TR-ND	900	122.58	ECE-V1EA101XP
	100	0.16	25.0	E	91	PCE3186CT-ND	.96	28.80	50.40	99.00	PCE3186TR-ND	1,000	139.06	ECE-V1EA101UP
	100	0.16	25.0	F	180	PCE2047CT-ND	.94	30.00	54.00	116.25	PCE2047TR-ND	500	106.00	ECE-V1EA101P
	220	0.16	55.0	F	230	PCE3187CT-ND	1.00	32.00	57.60	124.00	PCE3187TR-ND	500	115.10	ECE-V1EA221UP
	220	0.16	55.0	G	310	PCE2048CT-ND	1.01	34.20	62.10	135.00	PCE2048TR-ND	500	124.20	ECE-V1EA221P
	330	0.16	82.5	F	270	PCE3188CT-ND	.89	28.40	51.12	110.05	PCE3188TR-ND	500	115.10	ECE-V1EA331UP
	470	0.16	117.5	G	380	PCE3189CT-ND	1.18	39.90	72.45	157.50	PCE3189TR-ND	500	129.49	ECE-V1EA471P
35	2.2	0.14	3.0	A	8	PCE3070CT-ND	.59	16.80	28.00	52.50	PCE3070TR-ND	2,000	76.32/M	ECE-V1VS2R2SR
	3.3	0.14	3.0	A	10	PCE3071CT-ND	.59	16.80	28.00	52.50	PCE3071TR-ND	2,000	76.32/M	ECE-V1VS3R3SR
	4.7	0.12	3.0	B	22	PCE3072CT-ND	.63	18.00	30.00	56.25	PCE3072TR-ND	2,000	71.20/M	ECE-V1VA4R7SR
	10	0.16	3.5	B	22	PCE3277CT-ND	.70	20.10	33.50	62.81	PCE3277TR-ND	2,000	78.80/M	ECE-V1VA100WR
	10	0.12	3.5	C	30	PCE3073CT-ND	.56	16.80	29.40	57.75	PCE3073TR-ND	1,000	80.56	ECE-V1VA100SR
	22	0.16	7.7	C	36	PCE3278CT-ND	.62	18.48	32.34	63.53	PCE3278TR-ND	1,000	87.78	ECE-V1VA220WR
	22	0.12	7.7	D	60	PCE3074CT-ND	.64	19.20	33.60	66.00	PCE3074TR-ND	1,000	95.00	ECE-V1VA220SP
	33	0.16	11.6	D	60	PCE3279CT-ND	.66	19.68	34.44	67.65	PCE3279TR-ND	1,000	112.29	ECE-V1VA330WP
	33	0.14	11.6	D2	65	PCE3190CT-ND	.65	19.44	34.02	66.83	PCE3190TR-ND	1,000	120.84	ECE-V1VA330UP
	33	0.14	11.6	E	130	PCE2049CT-ND	.80	24.00	42.00	82.50	PCE2049TR-ND	1,000	139.06	ECE-V1VA330P
	47	0.16	16.5	D	70	PCE3280CT-ND	.80	24.00	42.00	82.50	PCE3280TR-ND	1,000	112.29	ECE-V1VA470WP
	47	0.14	16.5	E	165	PCE2050CT-ND	.96	28.80	50.40	99.00	PCE2050TR-ND	1,000	139.06	ECE-V1VA470P
	100	0.12	35.0	D8	132	PCE3355CT-ND	.94	30.00	54.00	116.25	PCE3355TR-ND	900	122.58	ECE-V1VA101XP
	100	0.14	35.0	F	140	PCE3191CT-ND	1.01	34.20	62.10	135.00	PCE3191TR-ND	500	106.00	ECE-V1VA101UP
	100	0.14	35.0	G	210	PCE2051CT-ND	1.18	39.90	72.45	157.50	PCE2051TR-ND	500	124.20	ECE-V1VA101P
	220	0.14	77.0	F	200	PCE3192CT-ND	.89	28.40	51.12	110.05	PCE3192TR-ND	500	115.10	ECE-V1VA221UP
	330	0.14	115.5	G	350	PCE3193CT-ND	1.11	35.40	63.72	137.18	PCE3193TR-ND	500	129.49	ECE-V1VA331P
50	0.1	0.14	3.0	A	1	PCE3075CT-ND	.59	16.80	28.00	52.50	PCE3075TR-ND	2,000	76.32/M	ECE-V1HS0R1SR
	0.1	0.12	3.0	B	1	PCE3076CT-ND	.53	15.00	25.00	46.88	PCE3076TR-ND	2,000	71.20/M	ECE-V1HA0R1SR
	0.22	0.14	3.0	A	2	PCE3077CT-ND	.59	16.80	28.00	52.50	PCE3077TR-ND	2,000	76.32/M	ECE-V1HSR22SR
	0.22	0.12	3.0	B	2	PCE3078CT-ND	.50	14.40	24.00	45.00	PCE3078TR-ND	2,000	71.20/M	ECE-V1HAR22SR
	0.33	0.14	3.0	A	3	PCE3079CT-ND	.59	16.80	28.00	52.50	PCE3079TR-ND	2,000	76.32/M	ECE-V1HSR33SR
	0.33	0.12	3.0	B	3	PCE3080CT-ND	.50	14.40	24.00	45.00	PCE3080TR-ND	2,000	71.20/M	ECE-V1HAR33SR
	0.47	0.14	3.0	A	5	PCE3081CT-ND	.59	16.80	28.00	52.50	PCE3081TR-ND	2,000	76.32/M	ECE-V1HSR47SR
	0.47	0.12	3.0	B	5	PCE3082CT-ND	.50	14.40	24.00	45.00	PCE3082TR-ND	2,000	71.20/M	ECE-V1HAR47SR
	1	0.14	3.0	A	8	PCE3083CT-ND	.59	16.80	28.00	52.50	PCE3083TR-ND	2,000	76.32/M	ECE-V1HS010SR
	1	0.12	3.0	B	10	PCE3084CT-ND	.53	15.00	25.00	46.88	PCE3084TR-ND	2,000	71.20/M	ECE-V1HA010SR
	2.2	0.14	3.0	A	10	PCE3085CT-ND	.59	16.80	28.00	52.50	PCE3085TR-ND	2,000	76.32/M	ECE-V1HS2R2SR
	2.2	0.12	3.0	B	16	PCE3086CT-ND	.50	14.40	24.00	45.00	PCE3086TR-ND	2,000	71.20/M	ECE-V1HA2R2SR
	3.3	0.12	3.0	B	16	PCE3087CT-ND	.63	18.00	30.00	56.25	PCE3087TR-ND	2,000	71.20/M	ECE-V1HA3R3SR
	4.7	0.14	3.0	B	18	PCE3281CT-ND	.56	15.90	26.50	49.69	PCE3281TR-ND	2,000	78.80/M	ECE-V1HA4R7WR
	4.7	0.12	3.0	C	23	PCE3088CT-ND	.59	16.80	28.00	52.50	PCE3088TR-ND	1,000	80.56	ECE-V1HA4R7SR
	10	0.14	5.0	C	27	PCE3282CT-ND	.64	19.20	33.60	66.00	PCE3282TR-ND	1,000	87.78	ECE-V1HA100WR

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
50	10	0.12	5.0	D	35	PCE3089CT-ND	.68	20.40	35.70	70.13	PCE3089TR-ND	1,000	95.00	ECE-V1HA100SP
	22	0.14	11.0	D	40	PCE3283CT-ND	.80	24.00	42.00	82.50	PCE3283TR-ND	1,000	112.29	ECE-V1HA220WP
	22	0.12	11.0	D2	60	PCE3194CT-ND	.80	24.00	42.00	82.50	PCE3194TR-ND	1,000	120.84	ECE-V1HA220UP
	22	0.12	11.0	E	120	PCE2053CT-ND	.96	28.80	50.40	99.00	PCE2053TR-ND	1,000	139.06	ECE-V1HA220P
	33	0.12	16.5	D8	65	PCE3356CT-ND	.80	24.00	42.00	82.50	PCE3356TR-ND	900	122.58	ECE-V1HA330XP
	33	0.12	16.5	E	65	PCE3195CT-ND	.80	24.00	42.00	82.50	PCE3195TR-ND	1,000	139.06	ECE-V1HA330UP
	33	0.12	16.5	F	110	PCE2054CT-ND	1.03	30.96	54.18	106.43	PCE2054TR-ND	500	106.00	ECE-V1HA330P
	47	0.12	23.5	D8	105	PCE3357CT-ND	.80	24.00	42.00	82.50	PCE3357TR-ND	900	122.58	ECE-V1HA470XP
	47	0.12	23.5	F	110	PCE3196CT-ND	1.03	30.96	54.18	106.43	PCE3196TR-ND	500	106.00	ECE-V1HA470UP
	47	0.12	23.5	G	130	PCE2055CT-ND	1.04	33.40	60.12	129.43	PCE2055TR-ND	500	124.20	ECE-V1HA470P
	100	0.12	50.0	F	200	PCE3197CT-ND	.89	28.40	51.12	110.05	PCE3197TR-ND	500	115.10	ECE-V1HA101UP
	220	0.12	110.0	G	300	PCE3198CT-ND	1.11	35.40	63.72	137.18	PCE3198TR-ND	500	129.49	ECE-V1HA221P
63	10	0.18	6.3	E	35	PCE3199CT-ND	.65	19.44	34.02	66.83	PCE3199TR-ND	1,000	120.84	ECE-V1JA100P
	22	0.18	13.9	E	35	PCE3284CT-ND	1.01	30.24	52.92	103.95	PCE3284TR-ND	1,000	154.53	ECE-V1JA220UP
	22	0.18	13.9	F	40	PCE3200CT-ND	.89	28.40	51.12	110.05	PCE3200TR-ND	500	116.60	ECE-V1JA220P
	33	0.18	20.8	F	45	PCE3201CT-ND	.89	28.40	51.12	110.05	PCE3201TR-ND	500	116.60	ECE-V1JA330P
	47	0.18	29.6	G	50	PCE3202CT-ND	.85	27.26	49.07	105.63	PCE3202TR-ND	500	129.49	ECE-V1JA470P
	100	0.18	63.0	G	60	PCE3203CT-ND	1.11	35.40	63.72	137.18	PCE3203TR-ND	500	129.49	ECE-V1JA101P
100	3.3	0.18	3.3	E	50	PCE3204CT-ND	.85	25.44	44.52	87.45	PCE3204TR-ND	1,000	154.53	ECE-V2AA3R3P
	4.7	0.18	4.7	E	50	PCE3285CT-ND	1.01	30.24	52.92	103.95	PCE3285TR-ND	1,000	169.83	ECE-V2AA4R7UP
	4.7	0.18	4.7	F	80	PCE3205CT-ND	.89	28.40	51.12	110.05	PCE3205TR-ND	500	116.60	ECE-V2AA4R7P
	10	0.18	10.0	E	50	PCE3286CT-ND	1.01	30.24	52.92	103.95	PCE3286TR-ND	1,000	169.83	ECE-V2AA100UP
	10	0.18	10.0	F	85	PCE3206CT-ND	.89	28.40	51.12	110.05	PCE3206TR-ND	500	116.60	ECE-V2AA100P
	22	0.18	22.0	F	70	PCE3287CT-ND	1.01	32.20	57.96	124.78	PCE3287TR-ND	500	127.20	ECE-V2AA220UP
	22	0.18	22.0	G	85	PCE3207CT-ND	1.11	35.40	63.72	137.18	PCE3207TR-ND	500	129.49	ECE-V2AA220P
	33	0.18	33.0	G	90	PCE3208CT-ND	1.11	35.40	63.72	137.18	PCE3208TR-ND	500	129.49	ECE-V2AA330P

VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Size Code	Dimensions - mm D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

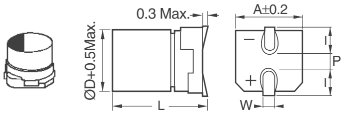

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE4286CT-ND	.60	17.25	28.75	53.91	PCE4286TR-ND	1,000	106.59	EEE-0JA220NR
	47	0.52	6.0	D	46	PCE4287CT-ND	.71	20.37	33.95	63.66	PCE4287TR-ND	1,000	125.78	EEE-0JA470NP
10	10	0.40	6.0	B	25	PCE4288CT-ND	.51	14.52	24.20	45.38	PCE4288TR-ND	2,000	84.96/M	EEE-1AA100NR
	33	0.40	6.6	D	43	PCE4289CT-ND	.71	20.37	33.95	63.66	PCE4289TR-ND	1,000	125.78	EEE-1AA330NP
	4.7	0.32	6.0	B	20	PCE4290CT-ND	.51	14.52	24.20	45.38	PCE4290TR-ND	2,000	84.96/M	EEE-1CA4R7NR
16	10	0.32	6.0	C	25	PCE4291CT-ND	.60	17.25	28.75	53.91	PCE4291TR-ND	1,000	106.59	EEE-1CA100NR
	22	0.32	7.0	D	39	PCE4306CT-ND	.71	20.37	33.95	63.66	PCE4306TR-ND	1,000	125.78	EEE-1CA220NP
	3.3	0.28	6.0	B	12	PCE4292CT-ND	.51	14.52	24.20	45.38	PCE4292TR-ND	2,000	84.96/M	EEE-1EA3R3NR
25	4.7	0.28	6.0	C	21	PCE4293CT-ND	.60	17.25	28.75	53.91	PCE4293TR-ND	1,000	106.59	EEE-1EA4R7NR
	10	0.28	6.0	D	28	PCE4294CT-ND	.71	20.37	33.95	63.66	PCE4294TR-ND	1,000	125.78	EEE-1EA100NP
	2.2	0.24	6.0	B	12	PCE4295CT-ND	.51	14.52	24.20	45.38	PCE4295TR-ND	2,000	84.96/M	EEE-1VA2R2NR
35	4.7	0.24	6.0	C	22	PCE4296CT-ND	.60	17.25	28.75	53.91	PCE4296TR-ND	1,000	106.59	EEE-1VA4R7NR
	10	0.24	7.0	D	30	PCE4297CT-ND	.71	20.37	33.95	63.66	PCE4297TR-ND	1,000	125.78	EEE-1VA100NP
	0.22	0.24	6.0	B	2	PCE4298CT-ND	.51	14.52	24.20	45.38	PCE4298TR-ND	2,000	84.96/M	EEE-1HAR22NR
50	0.33	0.24	6.0	B	3	PCE4299CT-ND	.51	14.52	24.20	45.38	PCE4299TR-ND	2,000	84.96/M	EEE-1HAR33NR
	0.47	0.24	6.0	B	5	PCE4300CT-ND	.51	14.52	24.20	45.38	PCE4300TR-ND	2,000	84.96/M	EEE-1HAR47NR
	1	0.24	6.0	B	10	PCE4301CT-ND	.51	14.52	24.20	45.38	PCE4301TR-ND	2,000	84.96/M	EEE-1HA010NR
	2.2	0.24	6.0	C	16	PCE4302CT-ND	.60	17.25	28.75	53.91	PCE4302TR-ND	1,000	106.59	EEE-1HA2R2NR
	3.3	0.24	6.0	C	21	PCE4305CT-ND	.60	17.25	28.75	53.91	PCE4305TR-ND	1,000	106.59	EEE-NZ1H3R3R
	3.3	0.24	6.0	D	31	PCE4303CT-ND	.71	20.37	33.95	63.66	PCE4303TR-ND	1,000	125.78	EEE-1HA3R3NP
	4.7	0.24	6.0	D	31	PCE4304CT-ND	.71	20.37	33.95	63.66	PCE4304TR-ND	1,000	125.78	EEE-1HA4R7NP

VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

Size Code	Dimensions - mm D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

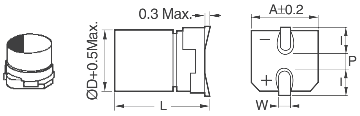

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE3123CT-ND	.68	20.40	35.70	70.13	PCE3123TR-ND	1,000	120.84	ECE-V0JA220NR
	47	0.52	6.0	D	46	PCE3124CT-ND	.78	23.28	40.74	80.03	PCE3124TR-ND	1,000	127.50	ECE-V0JA470NP
10	10	0.40	6.0	B	25	PCE3125CT-ND	.58	17.52	30.66	60.23	PCE3125TR-ND	2,000	96.30/M	ECE-V1AA100NR
	33	0.40	6.6	D	43	PCE3126CT-ND	.78	23.28	40.74	80.03	PCE3126TR-ND	1,000	127.50	ECE-V1AA330NP
16	4.7	0.32	6.0	B	20	PCE3127CT-ND	.58	17.52	30.66	60.23	PCE3127TR-ND	2,000	96.30/M	ECE-V1CA4R7NR
	10	0.32	6.0	C	25	PCE3128CT-ND	.68	20.40	35.70	70.13	PCE3128TR-ND	1,000	120.84	ECE-V1CA100NR
	22	0.32	7.0	D	39	PCE3129CT-ND	.78	23.28	40.74	80.03	PCE3129TR-ND	1,000	127.50	ECE-V1CA220NP
25	3.3	0.28	6.0	B	12	PCE3130CT-ND	.58	17.52	30.66	60.23	PCE3130TR-ND	2,000	96.30/M	ECE-V1EA3R3NR
	4.7	0.28	6.0	C	21	PCE3131CT-ND	.68	20.40	35.70	70.13	PCE3131TR-ND	1,000	120.84	ECE-V1EA4R7NR
	10	0.28	6.0	D	28	PCE3132CT-ND	.80	24.00	42.00	82.50	PCE3132TR-ND	1,000	127.50	ECE-V1EA100NP
35	2.2	0.24	6.0	B	12	PCE3133CT-ND	.58	17.52	30.66	60.23	PCE3133TR-ND	2,000	96.30/M	ECE-V1VA2R2NR
	4.7	0.24	6.0	C	22	PCE3134CT-ND	.68	20.40	35.70	70.13	PCE3134TR-ND	1,000	120.84	ECE-V1VA4R7NR
	10	0.24	7.0	D	30	PCE3135CT-ND	.78	23.28	40.74	80.03	PCE3135TR-ND	1,000	127.50	ECE-V1VA100NP
50	0.22	0.24	6.0	B	2	PCE3136CT-ND	.58	17.52	30.66	60.23	PCE3136TR-ND	2,000	96.30/M	ECE-V1HAR22NR
	0.33	0.24	6.0	B	3	PCE3137CT-ND	.58	17.52	30.66	60.23	PCE3137TR-ND	2,000	96.30/M	ECE-V1HAR33NR
	0.47	0.24	6.0	B	5	PCE3138CT-ND	.58	17.52	30.66	60.23	PCE3138TR-ND	2,000	96.30/M	ECE-V1HAR47NR
	1	0.24	6.0	B	10	PCE3139CT-ND	.58	17.52	30.66	60.23	PCE3139TR-ND	2,000	96.30/M	ECE-V1HA010NR
	2.2	0.24	6.0	C	16	PCE3140CT-ND	.68	20.40	35.70	70.13	PCE3140TR-ND	1,000	120.84	ECE-V1HA2R2NR
	3.3	0.24	6.0	D	21	PCE3141CT-ND	.99	31.81	57.25	123.26	PCE3141TR-ND	1,000	254.00	ECE-V1HA3R3NP
	4.7	0.24	6.0	D	31	PCE3142CT-ND	.78	23.28	40.74	80.03	PCE3142TR-ND	1,000	127.50	ECE-V1HA4R7NP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic

HA Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

Digi-Reel® RoHS COMPLIANT

Features:
- General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications:
- **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

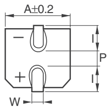

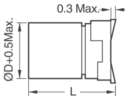

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥ 255°C)	Duration (Temp. ≥ 230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Series	Case Code	Dimensions – mm D	L	A	I	W	P
HA	B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Following specified values:

Series	Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
HA	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)													
6.3	22	0.30	3.0	B	29	PCE4647CT-ND	.43	12.42	20.70	PCE4647TR-ND	2,000	73.00/M	EEE-HA0J220AR
	33	0.35	3.0	B	29	PCE4720CT-ND	.48	13.74	22.90	PCE4720TR-ND	2,000	81.00/M	EEE-HAJ330WAR
	47	0.30	3.0	C	46	PCE4649CT-ND	.52	14.82	24.70	PCE4649TR-ND	1,000	93.00	EEE-HA0J470AR
	100	0.40	6.3	C	47	PCE4718CT-ND	.56	16.11	26.85	PCE4718TR-ND	1,000	101.00	EEE-HAJ101WAR
	100	0.30	6.3	D	71	PCE4645CT-ND	.61	17.46	29.10	PCE4645TR-ND	1,000	109.00	EEE-HA0J101AP
	330	0.30	20.7	D8	105	PCE4722CT-ND	.63	19.03	33.31	PCE4722TR-ND	900	126.90	EEE-HAJ331XAP
	330	0.35	20.7	E	180	PCE4721CT-ND	.76	22.85	39.98	PCE4721TR-ND	1,000	160.00	EEE-HAJ331UAP
	330	0.35	20.7	F	230	PCE4648CT-ND	.99	29.64	51.87	PCE4648TR-ND	500	122.00	EEE-HA0J331AP
	470	0.35	29.6	F	300	PCE4723CT-ND	.99	29.64	51.87	PCE4723TR-ND	500	122.00	EEE-HAJ471UAP
	1,000	0.35	63.0	G	400	PCE4646CT-ND	.90	28.88	51.98	PCE4646TR-ND	500	135.50	EEE-HA0J102AP
	1,500	0.50	94.5	G	480	PCE4719CT-ND	.99	31.70	57.06	PCE4719TR-ND	500	148.50	EEE-HAJ152UAP
10	22	0.30	3.0	B	28	PCE4690CT-ND	.43	12.42	20.70	PCE4690TR-ND	2,000	73.00/M	EEE-HAA220WAR
	33	0.30	3.3	B	29	PCE4692CT-ND	.48	13.74	22.90	PCE4692TR-ND	2,000	81.00/M	EEE-HAA330WAR
	33	0.22	3.3	C	43	PCE4652CT-ND	.52	14.82	24.70	PCE4652TR-ND	1,000	93.00	EEE-HA1A330AR
	47	0.30	4.7	C	43	PCE4693CT-ND	.56	16.11	26.85	PCE4693TR-ND	1,000	101.00	EEE-HAA470WAR
	100	0.30	10.0	D	71	PCE4688CT-ND	.61	17.46	29.10	PCE4688TR-ND	1,000	109.00	EEE-HAA101WAP
	100	0.26	10.0	E	110	PCE4650CT-ND	.76	22.85	39.98	PCE4650TR-ND	1,000	160.00	EEE-HA1A101AP
	220	0.22	22.0	D8	105	PCE4691CT-ND	.63	19.03	33.31	PCE4691TR-ND	900	126.90	EEE-HAA221XAP
	220	0.26	22.0	F	160	PCE4651CT-ND	.99	29.64	51.87	PCE4651TR-ND	500	122.00	EEE-HA1A221AP
	470	0.26	47.0	F	200	PCE4694CT-ND	.99	29.64	51.87	PCE4694TR-ND	500	122.00	EEE-HAA471UAP
	470	0.26	47.0	G	270	PCE4653CT-ND	.90	28.88	51.98	PCE4653TR-ND	500	135.50	EEE-HA1A471AP
	1,000	0.35	100.0	G	400	PCE4689CT-ND	.99	31.70	57.06	PCE4689TR-ND	500	148.50	EEE-HAA102UAP
16	10	0.16	3.0	B	28	PCE4654CT-ND	.43	12.42	20.70	PCE4654TR-ND	2,000	73.00/M	EEE-HA1C100AR
	22	0.26	3.5	B	28	PCE4696CT-ND	.48	13.74	22.90	PCE4696TR-ND	2,000	81.00/M	EEE-HAC220WAR
	22	0.16	3.5	C	39	PCE4655CT-ND	.52	14.82	24.70	PCE4655TR-ND	1,000	93.00	EEE-HA1C220AR
	33	0.26	5.2	C	35	PCE4699CT-ND	.56	16.11	26.85	PCE4699TR-ND	1,000	101.00	EEE-HAC330WAR
	47	0.26	7.5	C	39	PCE4701CT-ND	.56	16.11	26.85	PCE4701TR-ND	1,000	101.00	EEE-HAC470WAR
	47	0.16	7.5	D	70	PCE4658CT-ND	.61	17.46	29.10	PCE4658TR-ND	1,000	109.00	EEE-HA1C470AP
	100	0.26	16.0	D	70	PCE4695CT-ND	.72	20.70	34.50	PCE4695TR-ND	1,000	129.00	EEE-HAC101WAP
	220	0.20	35.2	D8	105	PCE4698CT-ND	.63	19.03	33.31	PCE4698TR-ND	900	126.90	EEE-HAC221XAP
	220	0.20	35.2	F	150	PCE4697CT-ND	.99	29.64	51.87	PCE4697TR-ND	500	122.00	EEE-HAC221UAP
	220	0.20	35.2	G	210	PCE4656CT-ND	.90	28.88	51.98	PCE4656TR-ND	500	135.50	EEE-HA1C221AP
	330	0.20	52.8	F	170	PCE4700CT-ND	.99	29.64	51.87	PCE4700TR-ND	500	122.00	EEE-HAC331UAP
	330	0.20	52.8	G	230	PCE4657CT-ND	.90	28.88	51.98	PCE4657TR-ND	500	135.50	EEE-HA1C331AP
	470	0.26	75.2	F	340	PCE4702CT-ND	.84	26.78	48.20	PCE4702TR-ND	500	125.50	EEE-HAC471UAP
	470	0.20	75.2	G	340	PCE4659CT-ND	.90	28.88	51.98	PCE4659TR-ND	500	135.50	EEE-HA1C471AP
	680	0.26	108.8	G	380	PCE4703CT-ND	.99	31.70	57.06	PCE4703TR-ND	500	148.50	EEE-HAC681UAP
25	4.7	0.14	3.0	B	22	PCE4667CT-ND	.43	12.42	20.70	PCE4667TR-ND	2,000	73.00/M	EEE-HA1E4R7AR
	10	0.20	3.0	B	22	PCE4704CT-ND	.48	13.74	22.90	PCE4704TR-ND	2,000	81.00/M	EEE-HAE100WAR
	10	0.14	3.0	C	28	PCE4660CT-ND	.52	14.82	24.70	PCE4660TR-ND	1,000	93.00	EEE-HA1E100AR
	22	0.20	5.5	C	35	PCE4707CT-ND	.56	16.11	26.85	PCE4707TR-ND	1,000	101.00	EEE-HAE220WAR
	22	0.14	5.5	D	55	PCE4662CT-ND	.61	17.46	29.10	PCE4662TR-ND	1,000	109.00	EEE-HA1E220AP
	33	0.20	8.2	C	45	PCE4709CT-ND	.56	16.11	26.85	PCE4709TR-ND	1,000	101.00	EEE-HAE330WAR
	33	0.14	8.2	D	65	PCE4664CT-ND	.61	17.46	29.10	PCE4664TR-ND	1,000	109.00	EEE-HA1E330AP
	47	0.20	11.7	D	70	PCE4711CT-ND	.72	20.70	34.50	PCE4711TR-ND	1,000	129.00	EEE-HAE470WAP
	47	0.16	11.7	E	91	PCE4666CT-ND	.76	22.85	39.98	PCE4666TR-ND	1,000	160.00	EEE-HA1E470AP
	100	0.16	25.0	D8	91	PCE4706CT-ND	.63	19.03	33.31	PCE4706TR-ND	900	126.90	EEE-HAE101XAP
	100	0.16	25.0	E	91	PCE4705CT-ND	.76	22.85	39.98	PCE4705TR-ND	1,000	160.00	EEE-HAE101UAP
	100	0.16	25.0	F	130	PCE4661CT-ND	.99	29.64	51.87	PCE4661TR-ND	500	122.00	EEE-HA1E101AP
	220	0.20	55.0	F	160	PCE4708CT-ND	.84	26.78	48.20	PCE4708TR-ND	500	125.50	EEE-HAE221UAP
	220	0.16	55.0	G	190	PCE4663CT-ND	.90	28.88	51.98	PCE4663TR-ND	500	135.50	EEE-HA1E221AP
	330	0.20	82.5	F	180	PCE4710CT-ND	.84	26.78	48.20	PCE4710TR-ND	500	125.50	EEE-HAE331UAP
	330	0.16	82.5	G	340	PCE4665CT-ND	.90	28.88	51.98	PCE4665TR-ND	500	135.50	EEE-HA1E331AP
	470	0.25	117.5	G	360	PCE4712CT-ND	.99	31.70	57.06	PCE4712TR-ND	500	148.50	EEE-HAE471UAP
35	4.7	0.12	3.0	B	22	PCE4687CT-ND	.43	12.42	20.70	PCE4687TR-ND	2,000	73.00/M	EEE-HA1V4R7AR
	10	0.16	3.5	B	22	PCE4724CT-ND	.48	13.74	22.90	PCE4724TR-ND	2,000	81.00/M	EEE-HAV100WAR
	10	0.12	3.5	C	30	PCE4681CT-ND	.52	14.82	24.70	PCE4681TR-ND	1,000	93.00	EEE-HA1V100AR
	22	0.16	7.7	C	35	PCE4727CT-ND	.56	16.11	26.85	PCE4727TR-ND	1,000	101.00	EEE-HAV220WAR
	22	0.12	7.7	D	60	PCE4683CT-ND	.61	17.46	29.10	PCE4683TR-ND	1,000	109.00	EEE-HA1V220AP
	33	0.16	11.5	D	42	PCE4729CT-ND	.72	20.70	34.50	PCE4729TR-ND	1,000	129.00	EEE-HAV330WAP
	33	0.14	11.5	E	84	PCE4685CT-ND	.76	22.85	39.98	PCE4685TR-ND	1,000	160.00	EEE-HA1V330AP
	47	0.14	16.4	E	84	PCE4731CT-ND	.76	22.85	39.98	PCE4731TR-ND	1,000	160.00	EEE-HAV470UAP
	47	0.14	16.4	F	98	PCE4686CT-ND	.99	29.64	51.87	PCE4686TR-ND	500	122.00	EEE-HA1V470AP
	100	0.14	35.0	D8	84	PCE4726CT-ND	.63	19.03	33.31	PCE4726TR-ND	900	126.90	EEE-HAV101XAP
	100	0.14	35.0	F	120	PCE4725CT-ND	.99	29.64	51.87	PCE4725TR-ND	500	122.00	EEE-HAV101UAP
	100	0.14	35.0	G	160	PCE4682CT-ND	.90	28.88	51.98	PCE4682TR-ND	500	135.50	EEE-HA1V101AP
	220	0.14	77.0	F	170	PCE4728CT-ND	.84	26.78	48.20	PCE4728TR-ND	500	125.50	EEE-HAV221UAP
	220	0.14	77.0	G	210	PCE4684CT-ND	.90	28.88	51.98	PCE4684TR-ND	500	135.50	EEE-HA1V221AP
	330	0.30	115.5	G	250	PCE4730CT-ND	.99	31.70	57.06	PCE4730TR-ND	500	148.50	EEE-HAV331UAP
50	0.1	0.12	3.0	B	1	PCE4677CT-ND	.43	12.42	20.70	PCE4677TR-ND	2,000	73.00/M	EEE-HA1HR10AR
	0.22	0.12	3.0	B	2	PCE4678CT-ND	.43	12.42	20.70	PCE4678TR-ND	2,000	73.00/M	EEE-HA1HR22AR
	0.33	0.12	3.0	B	3	PCE4679CT-ND	.43	12.42	20.70	PCE4679TR-ND	2,000	73.00/M	EEE-HA1HR33AR
	0.47	0.12	3.0	B	5	PCE4680CT-ND	.43	12.42	20.70	PCE4680TR-ND	2,000	73.00/M	EEE-HA1HR47AR
	1	0.12	3.0	B	10	PCE4670CT-ND	.43	12.42	20.70	PCE4670TR-ND	2,000	73.00/M	EEE-HA1H1R0AR

(Continued)

Panasonic® HA Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100		Qty.	Pricing	
50	2.2	0.12	3.0	B	16	PCE4672CT-ND	.43	12.42	20.70	PCE4672TR-ND	2,000	73.00/M	EEE-HA1H2R2AR
	3.3	0.12	3.0	B	16	PCE4674CT-ND	.43	12.42	20.70	PCE4674TR-ND	2,000	73.00/M	EEE-HA1H3R3AR
	4.7	0.12	3.0	C	23	PCE4676CT-ND	.52	14.82	24.70	PCE4676TR-ND	1,000	93.00	EEE-HA1H4R7AR
	10	0.12	5.0	D	35	PCE4668CT-ND	.61	17.46	29.10	PCE4668TR-ND	1,000	109.00	EEE-HA1H100AP
	22	0.12	11.0	E	70	PCE4671CT-ND	.76	22.85	39.98	PCE4671TR-ND	1,000	160.00	EEE-HA1H220AP
	33	0.14	16.5	D8	70	PCE4644CT-ND	.63	19.03	29.10	PCE4644TR-ND	1,000	109.00	EEE-HAH330XAP
	33	0.12	16.5	E	70	PCE4715CT-ND	.76	22.85	39.98	PCE4715TR-ND	1,000	160.00	EEE-HAH330UAP
	33	0.12	16.5	F	91	PCE4673CT-ND	.99	29.64	51.87	PCE4673TR-ND	500	122.00	EEE-HA1H330AP
	47	0.14	23.5	D8	63	PCE4717CT-ND	.63	19.03	33.31	PCE4717TR-ND	900	126.90	EEE-HAH470XAP
	47	0.12	23.5	F	95	PCE4716CT-ND	.99	29.64	51.87	PCE4716TR-ND	500	122.00	EEE-HAH470UAP
	47	0.12	23.5	G	100	PCE4675CT-ND	.90	28.88	51.98	PCE4675TR-ND	500	135.50	EEE-HA1H470AP
	100	0.18	50.0	F	110	PCE4713CT-ND	.84	26.78	48.20	PCE4713TR-ND	500	125.50	EEE-HAH101UAP
	100	0.12	50.0	G	120	PCE4669CT-ND	.90	28.88	51.98	PCE4669TR-ND	500	135.50	EEE-HA1H101AP
	220	0.18	110.0	G	150	PCE4714CT-ND	.99	31.70	57.06	PCE4714TR-ND	500	148.50	EEE-HAH221UAP

Panasonic® HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

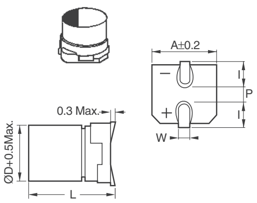

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 4 ~ 6.3mm case size 250°C for five seconds, 8 ~ 10mm case size 235°C for five seconds

Following specified values:

Series	Impedance 120Hz	Working Voltage							
		6.3V	10V	16V	25V	35V	50V	63V	100V
HA	-25°C/+20°C	4	3	2	2	2	2	3	3
	-40°C/+20°C	8	6	4	4	3	3	4	4

Series	Case Code	Dimensions – mm					
		D	L	A	l	W	P
HA	B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100		Qty.	Pricing	
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)													
6.3	22	0.30	3.0	B	29	PCE4160CT-ND	.52	13.41	21.28	PCE4160TR-ND	2,000	71.80/M	EEE-HA0J220R
	33	0.35	3.0	B	29	PCE4162CT-ND	.43	12.30	20.50	PCE4162TR-ND	2,000	79.60/M	EEE-HA0J330WR
	47	0.35	3.0	B	36	PCE4166CT-ND	.43	12.30	20.50	PCE4166TR-ND	2,000	79.60/M	EEE-HA0J470WR
	47	0.30	3.0	C	46	PCE4165CT-ND	.46	13.26	22.10	PCE4165TR-ND	1,000	81.13	EEE-HA0J470R
	100	0.35	6.3	C	47	PCE4156CT-ND	.51	14.43	24.05	PCE4156TR-ND	1,000	88.54	EEE-HA0J101WR
	100	0.30	6.3	D	71	PCE4155CT-ND	.55	15.60	26.00	PCE4155TR-ND	1,000	95.76	EEE-HA0J101P
	220	0.35	13.8	D	74	PCE4161CT-ND	.65	18.45	30.75	PCE4161TR-ND	1,000	113.43	EEE-HA0J221WP
	330	0.30	20.8	D8	105	PCE4164CT-ND	.57	17.04	29.82	PCE4164TR-ND	900	123.66	EEE-HA0J331XP
	330	0.35	20.8	F	230	PCE4163CT-ND	.88	26.47	46.33	PCE4163TR-ND	500	107.00	EEE-HA0J331P
	470	0.35	29.6	F	300	PCE4167CT-ND	.88	26.47	46.33	PCE4167TR-ND	500	107.00	EEE-HA0J471UP
	1,000	0.35	63.0	F	300	PCE4158CT-ND	.88	26.47	46.33	PCE4158TR-ND	500	107.00	EEE-HA0J102UP
	1,000	0.35	63.0	G	400	PCE4157CT-ND	1.03	31.01	54.26	PCE4157TR-ND	500	125.10	EEE-HA0J102P
	1,500	0.35	94.5	G	480	PCE4159CT-ND	.89	28.36	51.05	PCE4159TR-ND	500	130.63	EEE-HA0J152P
10	22	0.30	3.0	B	28	PCE4171CT-ND	.52	13.41	21.28	PCE4171TR-ND	2,000	71.80/M	EEE-HA1A220WR
	33	0.30	3.3	B	29	PCE4175CT-ND	.43	12.30	20.50	PCE4175TR-ND	2,000	79.60/M	EEE-HA1A330WR
	33	0.22	3.3	C	43	PCE4174CT-ND	.46	13.26	22.10	PCE4174TR-ND	1,000	81.13	EEE-HA1A330R
	47	0.30	4.7	C	43	PCE4176CT-ND	.51	14.43	24.05	PCE4176TR-ND	1,000	88.54	EEE-HA1A470WR
	100	0.30	10.0	D	71	PCE4169CT-ND	.55	15.60	26.00	PCE4169TR-ND	1,000	95.76	EEE-HA1A101WP
	100	0.26	10.0	E	110	PCE4168CT-ND	.68	20.40	35.70	PCE4168TR-ND	1,000	140.25	EEE-HA1A101P
	220	0.22	22.0	D8	105	PCE4173CT-ND	.57	17.04	29.82	PCE4173TR-ND	900	123.66	EEE-HA1A221XP
	220	0.26	22.0	F	160	PCE4172CT-ND	.88	26.47	46.33	PCE4172TR-ND	500	107.00	EEE-HA1A221P
	470	0.26	47.0	F	200	PCE4178CT-ND	.88	26.47	46.33	PCE4178TR-ND	500	107.00	EEE-HA1A471UP
	470	0.26	47.0	G	270	PCE4177CT-ND	1.03	31.01	54.26	PCE4177TR-ND	500	125.10	EEE-HA1A471P
	1,000	0.26	100.0	G	400	PCE4170CT-ND	.89	28.36	51.05	PCE4170TR-ND	500	130.63	EEE-HA1A102P
16	10	0.16	3.0	B	28	PCE4179CT-ND	.52	13.41	21.28	PCE4179TR-ND	2,000	71.80/M	EEE-HA1C100R
	22	0.26	3.5	B	28	PCE4182CT-ND	.43	12.30	20.50	PCE4182TR-ND	2,000	79.60/M	EEE-HA1C220WR
	22	0.16	3.5	C	39	PCE4181CT-ND	.46	13.26	22.10	PCE4181TR-ND	1,000	81.13	EEE-HA1C220R
	33	0.26	5.2	C	35	PCE4186CT-ND	.51	14.43	24.05	PCE4186TR-ND	1,000	88.54	EEE-HA1C330WR
	47	0.26	7.5	C	39	PCE4190CT-ND	.51	14.43	24.05	PCE4190TR-ND	1,000	88.54	EEE-HA1C470WR
	47	0.16	7.5	D	70	PCE4189CT-ND	.55	15.60	26.00	PCE4189TR-ND	1,000	95.76	EEE-HA1C470P
	100	0.26	16.0	D	70	PCE4180CT-ND	.65	18.45	30.75	PCE4180TR-ND	1,000	113.43	EEE-HA1C101WP
	220	0.16	35.2	D8	105	PCE4185CT-ND	.57	17.04	29.82	PCE4185TR-ND	900	123.66	EEE-HA1C221XP
	220	0.20	35.2	F	150	PCE4184CT-ND	.88	26.47	46.33	PCE4184TR-ND	500	107.00	EEE-HA1C221UP
	220	0.20	35.2	G	210	PCE4183CT-ND	1.03	31.01	54.26	PCE4183TR-ND	500	125.10	EEE-HA1C221P
	330	0.20	52.8	F	170	PCE4188CT-ND	.88	26.47	46.33	PCE4188TR-ND	500	107.00	EEE-HA1C331UP
	330	0.20	52.8	G	230	PCE4187CT-ND	1.03	31.01	54.26	PCE4187TR-ND	500	125.10	EEE-HA1C331P
	470	0.20	75.2	F	340	PCE4192CT-ND	.96	28.73	50.27	PCE4192TR-ND	500	116.10	EEE-HA1C471UP
	470	0.20	75.2	G	340	PCE4191CT-ND	1.03	31.01	54.26	PCE4191TR-ND	500	125.10	EEE-HA1C471P
25	4.7	0.14	3.0	B	22	PCE4208CT-ND	.52	13.41	21.28	PCE4208TR-ND	2,000	71.80/M	EEE-HA1E4R7R
	10	0.20	3.0	B	22	PCE4194CT-ND	.43	12.30	20.50	PCE4194TR-ND	2,000	79.60/M	EEE-HA1E100WR
	10	0.14	3.0	C	28	PCE4193CT-ND	.46	13.26	22.10	PCE4193TR-ND	1,000	81.13	EEE-HA1E100R
	22	0.20	5.5	C	35	PCE4198CT-ND	.51	14.43	24.05	PCE4198TR-ND	1,000	88.54	EEE-HA1E220WR
	22	0.14	5.5	D	55	PCE4197CT-ND	.55	15.60	26.00	PCE4197TR-ND	1,000	95.76	EEE-HA1E220P
	33	0.20	8.2	C	45	PCE4202CT-ND	.51	14.43	24.05	PCE4202TR-ND	1,000	88.54	EEE-HA1E330WR
	33	0.14	8.3	D	65	PCE4201CT-ND	.55	15.60	26.00	PCE4201TR-ND	1,000	95.76	EEE-HA1E330P
	47	0.20	11.7	D	70	PCE4206CT-ND	.65	18.45	30.75	PCE4206TR-ND	1,000	113.43	EEE-HA1E470WP
	47	0.16	11.8	E	91	PCE4205CT-ND	.68	20.40	35.70	PCE4205TR-ND	1,000	140.25	EEE-HA1E470P
	100	0.16	25.0	E	91	PCE4196CT-ND	.68	20.40	35.70	PCE4196TR-ND	1,000	140.25	EEE-HA1E101UP
	100	0.16	25.0	F	130	PCE4195CT-ND	.88	26.47	46.33	PCE4195TR-ND	500	107.00	EEE-HA1E101P
	220	0.16	55.0	F	160	PCE4200CT-ND	.96	28.78	50.36	PCE4200TR-ND	500	116.30	EEE-HA1E221UP
	220	0.16	55.0	G	190	PCE4199CT-ND	1.03	31.01	54.26	PCE4199TR-ND	500	125.10	EEE-HA1E221P
	330	0.16	82.5	F	180	PCE4204CT-ND	.96	28.78	50.36	PCE4204TR-ND	500	116.30	EEE-HA1E331UP
	330	0.16	82.5	G	340	PCE4203CT-ND	1.03	31.01	54.26	PCE4203TR-ND	500	125.10	EEE-HA1E331P
	470	0.16	117.5	G	360	PCE4207CT-ND	.89	28.36	51.05	PCE4207TR-ND	500	130.63	EEE-HA1E471P
35	4.7	0.12	3.0	B	22	PCE4248CT-ND	.52	13.41	21.28	PCE4248TR-ND	2,000	71.80/M	EEE-HA1V4R7R
	10	0.16	3.5	B	22	PCE4235CT-ND	.43	12.30	20.50	PCE4235TR-ND	2,000	79.60/M	EEE-HA1V100WR
	10	0.12	3.5	C	30	PCE4234CT-ND	.46	13.26	22.10	PCE4234TR-ND	1,000	81.13	EEE-HA1V100R
	22	0.16	7.7	C	35	PCE4240CT-ND	.51	14.43	24.05	PCE4240TR-ND	1,000	88.54	EEE-HA1V220WR
	22	0.12	7.7	D	60	PCE4239CT-ND	.55	15.60	26.00	PCE4239TR-ND	1,000	95.76	EEE-HA1V220P
	33	0.16	11.5	D	42	PCE4244CT-ND	.65	18.45	30.75	PCE4244TR-ND	1,000	113.43	EEE-HA1V330WP
	33	0.14	11.6	E	84	PCE4243CT-ND	.68	20.40	35.70	PCE4243TR-ND	1,000	140.25	EEE-HA1V330P

(Continued)

Panasonic® HA Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100		Qty.	Pricing	
35	47	0.14	16.5	E	84	PCE4247CT-ND	.68	20.40	35.70	PCE4247TR-ND	1,000	140.25	EEE-HA1V470UP
	47	0.14	16.5	F	98	PCE4246CT-ND	.88	26.47	46.33	PCE4246TR-ND	500	107.00	EEE-HA1V470P
	100	0.12	35.0	D8	84	PCE4238CT-ND	.57	17.04	29.82	PCE4238TR-ND	900	123.66	EEE-HA1V101XP
	100	0.14	35.0	F	120	PCE4237CT-ND	.88	26.47	46.33	PCE4237TR-ND	500	107.00	EEE-HA1V101UP
	100	0.14	35.0	G	160	PCE4236CT-ND	1.03	31.01	54.26	PCE4236TR-ND	500	125.10	EEE-HA1V101P
	220	0.14	77.0	F	170	PCE4242CT-ND	.96	28.73	50.27	PCE4242TR-ND	500	116.10	EEE-HA1V221UP
	220	0.14	77.0	G	210	PCE4241CT-ND	1.03	31.01	54.26	PCE4241TR-ND	500	125.10	EEE-HA1V221P
	330	0.14	115.5	G	250	PCE4245CT-ND	.89	28.36	51.05	PCE4245TR-ND	500	130.63	EEE-HA1V331P
50	0.1	0.12	3.0	B	1	PCE4224CT-ND	.52	13.41	21.28	PCE4224TR-ND	2,000	71.80/M	EEE-HA1HR10R
	0.22	0.12	3.0	B	2	PCE4225CT-ND	.52	13.41	21.28	PCE4225TR-ND	2,000	71.80/M	EEE-HA1HR22R
	0.33	0.12	3.0	B	3	PCE4226CT-ND	.52	13.41	21.28	PCE4226TR-ND	2,000	71.80/M	EEE-HA1HR33R
	0.47	0.12	3.0	B	5	PCE4227CT-ND	.52	13.41	21.28	PCE4227TR-ND	2,000	71.80/M	EEE-HA1HR47R
	1.0	0.12	3.0	B	10	PCE4212CT-ND	.52	13.41	21.28	PCE4212TR-ND	2,000	71.80/M	EEE-HA1H1R0R
	2.2	0.12	3.0	B	16	PCE4215CT-ND	.52	13.41	21.28	PCE4215TR-ND	2,000	71.80/M	EEE-HA1H2R2R
	3.3	0.12	3.0	B	16	PCE4219CT-ND	.52	13.41	21.28	PCE4219TR-ND	2,000	71.80/M	EEE-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE4223CT-ND	.46	13.26	22.10	PCE4223TR-ND	1,000	81.13	EEE-HA1H4R7R
	10	0.12	5.0	D	35	PCE4209CT-ND	.55	15.60	26.00	PCE4209TR-ND	1,000	95.76	EEE-HA1H100P
	22	0.12	11.0	E	70	PCE4213CT-ND	.68	20.40	35.70	PCE4213TR-ND	1,000	140.25	EEE-HA1H220P
	33	0.12	16.5	D8	70	PCE4218CT-ND	.57	17.04	29.82	PCE4218TR-ND	900	123.66	EEE-HA1H330XP
	33	0.12	16.5	E	70	PCE4217CT-ND	.68	20.40	35.70	PCE4217TR-ND	1,000	140.25	EEE-HA1H330UP
	33	0.12	16.5	F	91	PCE4216CT-ND	.88	26.47	46.33	PCE4216TR-ND	500	107.00	EEE-HA1H330P
	47	0.12	23.5	D8	63	PCE4222CT-ND	.57	17.04	29.82	PCE4222TR-ND	900	123.66	EEE-HA1H470XP
	47	0.12	23.5	F	95	PCE4221CT-ND	.88	26.47	46.33	PCE4221TR-ND	500	107.00	EEE-HA1H470UP
	47	0.12	23.5	G	100	PCE4220CT-ND	1.03	31.01	54.26	PCE4220TR-ND	500	125.10	EEE-HA1H470P
	100	0.12	50.0	F	110	PCE4211CT-ND	.96	28.78	50.36	PCE4211TR-ND	500	116.30	EEE-HA1H101UP
	100	0.12	50.0	G	120	PCE4210CT-ND	1.03	31.01	54.26	PCE4210TR-ND	500	125.10	EEE-HA1H101P
	220	0.12	110.0	G	150	PCE4214CT-ND	.89	28.36	51.05	PCE4214TR-ND	500	130.63	EEE-HA1H221P
63	10	0.18	6.3	E	25	PCE4228CT-ND	.76	22.70	39.73	PCE4228TR-ND	1,000	155.72	EEE-HA1J100P
	22	0.18	13.9	E	25	PCE4230CT-ND	.83	24.96	43.68	PCE4230TR-ND	1,000	171.53	EEE-HA1J220UP
	22	0.18	13.9	F	30	PCE4229CT-ND	.96	28.73	50.27	PCE4229TR-ND	500	116.10	EEE-HA1J220P
	33	0.18	20.8	G	45	PCE4231CT-ND	.89	28.36	51.05	PCE4231TR-ND	500	130.63	EEE-HA1J330P
	47	0.18	29.7	F	45	PCE4233CT-ND	.96	28.73	50.27	PCE4233TR-ND	500	116.10	EEE-HA1J470UP
	47	0.18	29.6	G	50	PCE4232CT-ND	.89	28.36	51.05	PCE4232TR-ND	500	130.63	EEE-HA1J470P
100	3.3	0.18	3.3	E	30	PCE4253CT-ND	.76	22.70	39.73	PCE4253TR-ND	1,000	155.72	EEE-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE4255CT-ND	.83	24.96	43.68	PCE4255TR-ND	1,000	171.53	EEE-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE4254CT-ND	.96	28.73	50.27	PCE4254TR-ND	500	116.10	EEE-HA2A4R7P
	10	0.18	10.0	F	55	PCE4249CT-ND	.96	28.73	50.27	PCE4249TR-ND	500	116.10	EEE-HA2A100P
	22	0.18	22.0	F	55	PCE4251CT-ND	.82	26.32	47.38	PCE4251TR-ND	500	127.60	EEE-HA2A220UP
	22	0.18	22.0	G	60	PCE4250CT-ND	.89	28.36	51.05	PCE4250TR-ND	500	130.63	EEE-HA2A220P
	33	0.18	33.0	G	65	PCE4252CT-ND	.89	28.36	51.05	PCE4252TR-ND	500	130.63	EEE-HA2A330P

Panasonic® HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

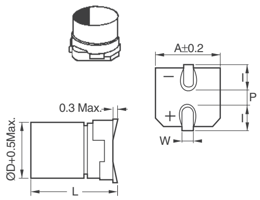

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Series	Impedance 120Hz	Working Voltage							
		6.3V	10V	16V	25V	35V	50V	63V	100V
HA	-25°C/+20°C	4	3	2	2	2	2	3	3
	-40°C/+20°C	8	6	4	4	3	3	4	4

Series	Case Code	Dimensions - mm					
		D	L	A	l	W	P
HA	B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100		Qty.	Pricing	
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)													
6.3	22	0.30	3.0	B	29	PCE3000CT-ND	.43	12.27	20.45	PCE3000TR-ND	2,000	73.62/M	EEV-HA0J220R
	47	0.35	3.0	B	36	PCE3288CT-ND	.48	13.59	22.65	PCE3288TR-ND	2,000	81.54/M	EEV-HA0J470WR
	47	0.30	3.0	C	46	PCE3001CT-ND	.51	14.64	24.40	PCE3001TR-ND	1,000	92.72	EEV-HA0J470R
	100	0.35	6.3	C	47	PCE3289CT-ND	.56	15.96	26.60	PCE3289TR-ND	1,000	101.08	EEV-HA0J101WR
	100	0.30	6.3	D	71	PCE3002CT-ND	.60	17.25	28.75	PCE3002TR-ND	1,000	109.25	EEV-HA0J101P
	220	0.35	13.8	D	74	PCE3290CT-ND	.71	20.40	34.00	PCE3290TR-ND	1,000	129.20	EEV-HA0J221WP
	330	0.30	20.8	D8	105	PCE3358CT-ND	.63	18.82	32.93	PCE3358TR-ND	900	127.01	EEV-HA0J331XP
	1000	0.35	63.0	F	300	PCE3209CT-ND	.98	29.26	51.20	PCE3209TR-ND	500	121.90	EEV-HA0J102UP
	1500	0.35	94.5	G	480	PCE3210CT-ND	.98	31.34	56.41	PCE3210TR-ND	500	148.87	EEV-HA0J152P
10	33	0.30	3.3	B	29	PCE3291CT-ND	.48	13.59	22.65	PCE3291TR-ND	2,000	81.54/M	EEV-HA1A330WR
	33	0.22	3.3	C	43	PCE3003CT-ND	.51	14.64	24.40	PCE3003TR-ND	1,000	92.72	EEV-HA1A330R
	100	0.30	10.0	D	71	PCE3211CT-ND	.60	17.25	28.75	PCE3211TR-ND	1,000	109.25	EEV-HA1A101WP
	220	0.22	22.0	D8	105	PCE3359CT-ND	.63	18.82	32.93	PCE3359TR-ND	900	127.01	EEV-HA1A221XP
	470	0.26	47.0	F	200	PCE3212CT-ND	.98	29.26	51.20	PCE3212TR-ND	500	121.90	EEV-HA1A471UP
	1000	0.26	100.0	G	400	PCE3292CT-ND	.98	31.34	56.41	PCE3292TR-ND	500	148.87	EEV-HA1A102P
16	10	0.16	3.0	B	28	PCE3004CT-ND	.43	12.27	20.45	PCE3004TR-ND	2,000	73.62/M	EEV-HA1C100R
	22	0.26	3.5	B	28	PCE3293CT-ND	.48	13.59	22.65	PCE3293TR-ND	2,000	81.54/M	EEV-HA1C220WR
	22	0.16	3.5	C	39	PCE3005CT-ND	.51	14.64	24.40	PCE3005TR-ND	1,000	92.72	EEV-HA1C220R
	47	0.26	7.5	C	39	PCE3294CT-ND	.56	15.96	26.60	PCE3294TR-ND	1,000	101.08	EEV-HA1C470WR
	47	0.16	7.5	D	70	PCE3006CT-ND	.60	17.25	28.75	PCE3006TR-ND	1,000	109.25	EEV-HA1C470P
	100	0.26	16.0	D	70	PCE3295CT-ND	.71	20.40	34.00	PCE3295TR-ND	1,000	129.20	EEV-HA1C101WP
	220	0.16	35.2	D8	105	PCE3360CT-ND	.63	18.82	32.93	PCE3360TR-ND	900	127.01	EEV-HA1C221XP
	220	0.20	35.2	F	150	PCE3213CT-ND	.98	29.26	51.20	PCE3213TR-ND	500	121.90	EEV-HA1C221UP
	330	0.20	52.8	F	170	PCE3214CT-ND	.98	29.26	51.20	PCE3214TR-ND	500	121.90	EEV-HA1C331UP
	470	0.20	75.2	F	340	PCE3215CT-ND	.83	26.46	47.63	PCE3215TR-ND	500	125.69	EEV-HA1C471UP
	470	0.20	75.2	G	340	PCE3216CT-ND	.89	28.56	51.41	PCE3216TR-ND	500	135.66	EEV-HA1C471P
25	4.7	0.14	3.0	B	22	PCE3007CT-ND	.43	12.27	20.45	PCE3007TR-ND	2,000	73.62/M	EEV-HA1E4R7R
	10	0.14	3.0	C	28	PCE3008CT-ND	.51	14.64	24.40	PCE3008TR-ND	1,000	92.72	EEV-HA1E100R
	22	0.14	5.5	D	55	PCE3009CT-ND	.60	17.25	28.75	PCE3009TR-ND	1,000	109.25	EEV-HA1E220P
	33	0.20	8.2	C	45	PCE3296CT-ND	.56	15.96	26.60	PCE3296TR-ND	1,000	101.08	EEV-HA1E330WR
	33	0.14	8.3	D	65	PCE3010CT-ND	.60	17.25	28.75	PCE3010TR-ND	1,000	109.25	EEV-HA1E330P
	47	0.20	11.7	D	70	PCE3297CT-ND	.71	20.40	34.00	PCE3297TR-ND	1,000	129.20	EEV-HA1E470WP
	47	0.16	11.8	E	91	PCE3217CT-ND	.75	22.56	39.48	PCE3217TR-ND	1,000	159.80	EEV-HA1E470P
	100	0.16	25.0	E	91	PCE3298CT-ND	.75	22.56	39.48	PCE3298TR-ND	1,000	159.80	EEV-HA1E101UP
	100	0.16	25.0	F	130	PCE3218CT-ND	.98	29.26	51.20	PCE3218TR-ND	500	121.90	EEV-HA1E101P
	220	0.16	55.0	F	160	PCE3219CT-ND	.83	26.50	47.70	PCE3219TR-ND	500	125.88	EEV-HA1E221UP
	330	0.16	82.5	F	180	PCE3220CT-ND	.83	26.50	47.70	PCE3220TR-ND	500	125.88	EEV-HA1E331UP
	470	0.16	117.5	G	360	PCE3221CT-ND	.98	31.34	56.41	PCE3221TR-ND	500	148.87	EEV-HA1E471P
35	4.7	0.12	3.0	B	22	PCE3011CT-ND	.43	12.27	20.45	PCE3011TR-ND	2,000	73.62/M	EEV-HA1V4R7R
	10	0.16	3.5	B	22	PCE3299CT-ND	.48	13.59	22.65	PCE3299TR-ND	2,000	81.54/M	EEV-HA1V100WR

(Continued)

HA Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
35	10	0.12	3.5	C	30	PCE3012CT-ND	.51	14.64	24.40	PCE3012TR-ND	1,000	92.72	EEV-HA1V100R
	22	0.16	7.7	C	35	PCE3300CT-ND	.56	15.96	26.60	PCE3300TR-ND	1,000	101.08	EEV-HA1V220WR
	22	0.12	7.7	D	60	PCE3013CT-ND	.60	17.25	28.75	PCE3013TR-ND	1,000	109.25	EEV-HA1V220P
	33	0.16	11.5	D	42	PCE3301CT-ND	.71	20.40	34.00	PCE3301TR-ND	1,000	129.20	EEV-HA1V330WP
	33	0.14	11.6	E	84	PCE3222CT-ND	.75	22.56	39.48	PCE3222TR-ND	1,000	159.80	EEV-HA1V330P
	47	0.14	16.5	E	84	PCE3302CT-ND	.75	22.56	39.48	PCE3302TR-ND	1,000	159.80	EEV-HA1V470UP
	47	0.14	16.5	F	98	PCE3223CT-ND	.98	29.26	51.20	PCE3223TR-ND	500	121.90	EEV-HA1V470P
	100	0.12	35.0	D8	84	PCE3361CT-ND	.63	18.82	32.93	PCE3361TR-ND	900	127.01	EEV-HA1V101XP
	100	0.14	35.0	F	120	PCE3224CT-ND	.98	29.26	51.20	PCE3224TR-ND	500	121.90	EEV-HA1V101UP
	220	0.14	77.0	F	170	PCE3225CT-ND	.83	26.46	47.63	PCE3225TR-ND	500	125.69	EEV-HA1V221UP
	220	0.14	77.0	G	210	PCE3226CT-ND	.89	28.56	51.41	PCE3226TR-ND	500	135.66	EEV-HA1V221P
	330	0.14	115.5	G	250	PCE3227CT-ND	.98	31.34	56.41	PCE3227TR-ND	500	148.87	EEV-HA1V331P
50	0.1	0.12	3.0	B	1	PCE3014CT-ND	.43	12.27	20.45	PCE3014TR-ND	2,000	73.62/M	EEV-HA1HR10R
	0.22	0.12	3.0	B	2	PCE3015CT-ND	.43	12.27	20.45	PCE3015TR-ND	2,000	73.62/M	EEV-HA1HR22R
	0.33	0.12	3.0	B	3	PCE3016CT-ND	.43	12.27	20.45	PCE3016TR-ND	2,000	73.62/M	EEV-HA1HR33R
	0.47	0.12	3.0	B	5	PCE3017CT-ND	.43	12.27	20.45	PCE3017TR-ND	2,000	73.62/M	EEV-HA1HR47R
	1.0	0.12	3.0	B	10	PCE3018CT-ND	.43	12.27	20.45	PCE3018TR-ND	2,000	73.62/M	EEV-HA1H010R
	2.2	0.12	3.0	B	16	PCE3019CT-ND	.43	12.27	20.45	PCE3019TR-ND	2,000	73.62/M	EEV-HA1H2R2R
	3.3	0.12	3.0	B	16	PCE3020CT-ND	.43	12.27	20.45	PCE3020TR-ND	2,000	73.62/M	EEV-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE3021CT-ND	.51	14.64	24.40	PCE3021TR-ND	1,000	92.72	EEV-HA1H4R7R
	10	0.12	5.0	D	35	PCE3022CT-ND	.60	17.25	28.75	PCE3022TR-ND	1,000	109.25	EEV-HA1H100P
	22	0.12	11.0	E	70	PCE3228CT-ND	.75	22.56	39.48	PCE3228TR-ND	1,000	159.80	EEV-HA1H220P
	33	0.12	16.5	D8	70	PCE3362CT-ND	.63	18.82	32.93	PCE3362TR-ND	900	127.01	EEV-HA1H330XP
	33	0.12	16.5	E	70	PCE3303CT-ND	.75	22.56	39.48	PCE3303TR-ND	1,000	159.80	EEV-HA1H330UP
	33	0.12	16.5	F	91	PCE3229CT-ND	.98	29.26	51.20	PCE3229TR-ND	500	121.90	EEV-HA1H330P
	47	0.12	23.5	D8	63	PCE3363CT-ND	.63	18.82	32.93	PCE3363TR-ND	900	127.01	EEV-HA1H470XP
	47	0.12	23.5	F	95	PCE3230CT-ND	.98	29.26	51.20	PCE3230TR-ND	500	121.90	EEV-HA1H470UP
	100	0.12	50.0	F	110	PCE3231CT-ND	.83	26.50	47.70	PCE3231TR-ND	500	125.88	EEV-HA1H101UP
	100	0.12	50.0	G	120	PCE3232CT-ND	.89	28.56	51.41	PCE3232TR-ND	500	135.66	EEV-HA1H101P
	220	0.12	110.0	G	150	PCE3233CT-ND	.98	31.34	56.41	PCE3233TR-ND	500	148.87	EEV-HA1H221P
63	10	0.18	6.3	E	25	PCE3234CT-ND	.84	25.08	43.89	PCE3234TR-ND	1,000	177.65	EEV-HA1J100P
	22	0.18	13.9	E	25	PCE3304CT-ND	.92	27.58	48.26	PCE3304TR-ND	1,000	195.00	EEV-HA1J220UP
	22	0.18	13.9	F	30	PCE3235CT-ND	.83	26.46	47.63	PCE3235TR-ND	500	125.69	EEV-HA1J220P
	33	0.18	20.8	G	45	PCE3236CT-ND	.98	31.34	56.41	PCE3236TR-ND	500	148.87	EEV-HA1J330P
	47	0.18	29.7	F	45	PCE3305CT-ND	.83	26.46	47.63	PCE3305TR-ND	500	125.69	EEV-HA1J470UP
	47	0.18	29.6	G	50	PCE3237CT-ND	.98	31.34	56.41	PCE3237TR-ND	500	148.87	EEV-HA1J470P
100	3.3	0.18	3.3	E	30	PCE3238CT-ND	.84	25.08	43.89	PCE3238TR-ND	1,000	177.65	EEV-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE3306CT-ND	.92	27.58	48.26	PCE3306TR-ND	1,000	195.00	EEV-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE3239CT-ND	.83	26.46	47.63	PCE3239TR-ND	500	125.69	EEV-HA2A4R7P
	10	0.18	10.0	F	55	PCE3240CT-ND	.83	26.46	47.63	PCE3240TR-ND	500	125.69	EEV-HA2A100P
	22	0.18	22.0	E	55	PCE3307CT-ND	.91	29.10	52.38	PCE3307TR-ND	500	138.23	EEV-HA2A220UP
	22	0.18	22.0	G	60	PCE3241CT-ND	.98	31.34	56.41	PCE3241TR-ND	500	148.87	EEV-HA2A220P
	33	0.18	33.0	G	65	PCE3242CT-ND	.98	31.34	56.41	PCE3242TR-ND	500	148.87	EEV-HA2A330P

Panasonic®

HB Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

Digi-Reel® RoHS COMPLIANT

Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

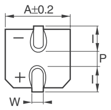

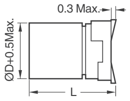

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥255°C)	Duration (Temp. ≥230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Following specified values:

HB Series	Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
Standard	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	3	3
Miniaturization Product	-20°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	10	8	6	6	4	4

Series	Case Code	Dimensions - mm D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
HB Long Life High Reliability Series: -40°C ~ 105°C (2,000 Hour Life)													
6.3	22	0.30	3.0	B	26	PCE4733CT-ND	.46	13.02	21.70	PCE4733TR-ND	2,000	77.00/M	EEE-HB0J220AR
	33	0.30	3.0	B	29	PCE4735CT-ND	.46	13.02	21.70	PCE4735TR-ND	2,000	77.00/M	EEE-HB0J330AR
	47	0.50	3.0	B	26	PCE4805CT-ND	.50	14.22	23.70	PCE4805TR-ND	2,000	84.00/M	EEE-HBJ470UAR
	47	0.30	3.0	C	46	PCE4737CT-ND	.54	15.42	25.70	PCE4737TR-ND	1,000	97.00	EEE-HB0J470AR
	100	0.50	6.3	C	42	PCE4801CT-ND	.59	16.86	28.10	PCE4801TR-ND	1,000	105.00	EEE-HBJ101UAR
	100	0.30	6.3	D	71	PCE4732CT-ND	.64	18.18	30.30	PCE4732TR-ND	1,000	114.00	EEE-HB0J101AP
	220	0.50	13.8	D	80	PCE4803CT-ND	.67	19.99	34.99	PCE4803TR-ND	1,000	140.00	EEE-HBJ221UAP
	220	0.35	13.8	F	150	PCE4734CT-ND	1.03	32.90	59.22	PCE4734TR-ND	500	154.50	EEE-HB0J221AP
	330	0.50	20.7	E	180	PCE4804CT-ND	.88	28.06	50.51	PCE4804TR-ND	1,000	222.00	EEE-HBJ331UAP
	330	0.35	20.7	F	230	PCE4736CT-ND	1.03	32.90	59.22	PCE4736TR-ND	500	154.50	EEE-HB0J331AP
	470	0.50	29.6	F	230	PCE4806CT-ND	1.04	35.19	63.89	PCE4806TR-ND	500	164.50	EEE-HBJ471UAP
	1,500	0.50	94.5	G	290	PCE4802CT-ND	1.16	39.08	70.97	PCE4802TR-ND	500	182.50	EEE-HBJ152UAP
10	33	0.30	3.3	B	23	PCE4781CT-ND	.50	14.22	23.70	PCE4781TR-ND	2,000	84.00/M	EEE-HBA330UAR
	33	0.26	3.3	C	43	PCE4740CT-ND	.54	15.42	25.70	PCE4740TR-ND	1,000	97.00	EEE-HB1A330AR
	68	0.22	6.8	D	70	PCE4742CT-ND	.64	18.18	30.30	PCE4742TR-ND	1,000	114.00	EEE-HB1A680AP
	100	0.30	10.0	D	71	PCE4778CT-ND	.67	19.99	34.99	PCE4778TR-ND	1,000	140.00	EEE-HBA101UAP
	100	0.26	10.0	E	110	PCE4738CT-ND	1.02	30.62	53.59	PCE4738TR-ND	1,000	214.00	EEE-HB1A101AP
	150	0.50	15.0	D	64	PCE4779CT-ND	.67	19.99	34.99	PCE4779TR-ND	1,000	140.00	EEE-HBA151UAP
	220	0.30	22.0	E	110	PCE4780CT-ND	.88	28.06	50.51	PCE4780TR-ND	1,000	222.00	EEE-HBA221UAP
	220	0.26	22.0	F	160	PCE4739CT-ND	1.03	32.90	59.22	PCE4739TR-ND	500	154.50	EEE-HB1A221AP
	470	0.35	47.0	F	220	PCE4782CT-ND	1.04	35.19	63.89	PCE4782TR-ND	500	164.50	EEE-HBA471UAP
	470	0.26	47.0	G	270	PCE4741CT-ND	1.16	39.08	70.97	PCE4741TR-ND	500	182.50	EEE-HB1A471AP
16	10	0.16	3.0	B	28	PCE4743CT-ND	.46	13.02	21.70	PCE4743TR-ND	2,000	77.00/M	EEE-HB1C100AR
	22	0.26	3.5	B	29.5	PCE4784CT-ND	.50	14.22	23.70	PCE4784TR-ND	2,000	84.00/M	EEE-HBC220UAR

(Continued)

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
16	22	0.16	3.5	C	39	PCE4745CT-ND	.54	15.42	25.70	PCE4745TR-ND	1,000	97.00	EEE-HB1C220AR
	33	0.16	5.2	D	65	PCE4747CT-ND	.64	18.18	30.30	PCE4747TR-ND	1,000	114.00	EEE-HB1C330AP
	47	0.26	7.5	C	39	PCE4786CT-ND	.59	16.86	28.10	PCE4786TR-ND	1,000	105.00	EEE-HBC470UAR
	47	0.16	7.5	D	70	PCE4749CT-ND	.64	18.18	30.30	PCE4749TR-ND	1,000	114.00	EEE-HB1C470AP
	47	0.16	7.5	D8	84	PCE4787CT-ND	.85	25.51	44.65	PCE4787TR-ND	900	170.10	EEE-HBC470XAP
	100	0.26	16.0	D	70	PCE4783CT-ND	.67	19.99	34.99	PCE4783TR-ND	1,000	140.00	EEE-HBC101UAP
	100	0.20	16.0	F	120	PCE4744CT-ND	1.03	32.90	59.22	PCE4744TR-ND	500	154.50	EEE-HB1C101AP
	220	0.20	35.2	F	150	PCE4785CT-ND	1.04	35.19	63.89	PCE4785TR-ND	500	164.50	EEE-HBC221UAP
	220	0.20	35.2	G	210	PCE4746CT-ND	1.16	39.08	70.97	PCE4746TR-ND	500	182.50	EEE-HB1C221AP
	330	0.20	52.8	G	230	PCE4748CT-ND	1.16	39.08	70.97	PCE4748TR-ND	500	182.50	EEE-HB1C331AP
	470	0.40	75.2	F	240	PCE4788CT-ND	1.04	35.19	63.89	PCE4788TR-ND	500	164.50	EEE-HBC471UAP
	470	0.20	75.2	G	340	PCE4750CT-ND	1.16	39.08	70.97	PCE4750TR-ND	500	182.50	EEE-HB1C471AP
25	4.7	0.14	3.0	B	22	PCE4757CT-ND	.46	13.02	21.70	PCE4757TR-ND	2,000	77.00/M	EEE-HB1E4R7AR
	6.8	0.14	3.0	B	25	PCE4758CT-ND	.46	13.02	21.70	PCE4758TR-ND	2,000	77.00/M	EEE-HB1E6R8AR
	10	0.16	3.0	B	28	PCE4789CT-ND	.50	14.22	23.70	PCE4789TR-ND	2,000	84.00/M	EEE-HBE100UAR
	10	0.14	3.0	C	28	PCE4751CT-ND	.54	15.42	25.70	PCE4751TR-ND	1,000	97.00	EEE-HB1E100AR
	22	0.14	5.5	D	55	PCE4753CT-ND	.64	18.18	30.30	PCE4753TR-ND	1,000	114.00	EEE-HB1E220AP
	33	0.20	8.2	C	50	PCE4792CT-ND	.59	16.86	28.10	PCE4792TR-ND	1,000	105.00	EEE-HBE330UAR
	33	0.14	8.2	D	65	PCE4755CT-ND	.64	18.18	30.30	PCE4755TR-ND	1,000	114.00	EEE-HB1E330AP
	47	0.20	11.7	D	65	PCE4794CT-ND	.67	19.99	34.99	PCE4794TR-ND	1,000	140.00	EEE-HBE470UAP
	47	0.16	11.7	E	91	PCE4756CT-ND	1.02	30.62	53.59	PCE4756TR-ND	1,000	214.00	EEE-HB1E470AP
	100	0.16	25.0	E	100	PCE4790CT-ND	.88	28.06	50.51	PCE4790TR-ND	1,000	222.00	EEE-HBE101UAP
	100	0.16	25.0	F	130	PCE4752CT-ND	1.03	32.90	59.22	PCE4752TR-ND	500	154.50	EEE-HB1E101AP
	220	0.30	55.0	F	130	PCE4791CT-ND	1.04	35.19	63.89	PCE4791TR-ND	500	164.50	EEE-HBE221UAP
	220	0.16	55.0	G	190	PCE4754CT-ND	1.16	39.08	70.97	PCE4754TR-ND	500	182.50	EEE-HB1E221AP
	330	0.30	82.5	F	130	PCE4793CT-ND	1.04	35.19	63.89	PCE4796TR-ND	500	201.00	EEE-HBE331UAP
	470	0.30	117.5	G	230	PCE4795CT-ND	1.27	42.98	78.04	PCE4795TR-ND	500	201.00	EEE-HBE471UAP
35	4.7	0.12	3.0	B	21	PCE4777CT-ND	.46	13.02	21.70	PCE4777TR-ND	2,000	77.00/M	EEE-HB1V4R7AR
	6.8	0.12	3.0	B	25	PCE4811CT-ND	.50	14.22	23.70	PCE4811TR-ND	2,000	84.00/M	EEE-HBV6R8UAR
	10	0.12	3.5	C	28	PCE4772CT-ND	.54	15.42	25.70	PCE4772TR-ND	1,000	97.00	EEE-HB1V100AR
	22	0.12	7.7	D	55	PCE4774CT-ND	.64	18.18	30.30	PCE4774TR-ND	1,000	114.00	EEE-HB1V220AP
	33	0.14	11.5	E	84	PCE4775CT-ND	1.02	30.62	53.59	PCE4775TR-ND	1,000	214.00	EEE-HB1V330AP
	47	0.20	16.4	D8	98	PCE4810CT-ND	.83	24.84	43.47	PCE4810TR-ND	900	165.60	EEE-HBV470YAP
	47	0.18	16.4	E	91	PCE4809CT-ND	.88	28.00	50.40	PCE4809TR-ND	1,000	223.00	EEE-HBV470UAP
	47	0.14	16.4	F	98	PCE4776CT-ND	1.03	32.90	59.22	PCE4776TR-ND	500	154.50	EEE-HB1V470AP
	100	0.20	35.0	F	98	PCE4807CT-ND	1.04	35.19	63.89	PCE4807TR-ND	500	164.50	EEE-HBV101UAP
	100	0.14	35.0	G	160	PCE4773CT-ND	1.16	39.08	70.97	PCE4773TR-ND	500	182.50	EEE-HB1V101AP
	220	0.14	77.0	G	180	PCE4808CT-ND	1.27	42.98	78.04	PCE4808TR-ND	500	201.00	EEE-HBV221UAP
50	0.1	0.12	3.0	B	1	PCE4768CT-ND	.46	13.02	21.70	PCE4768TR-ND	2,000	77.00/M	EEE-HB1HR10AR
	0.22	0.12	3.0	B	2	PCE4769CT-ND	.46	13.02	21.70	PCE4769TR-ND	2,000	77.00/M	EEE-HB1HR22AR
	0.33	0.12	3.0	B	3	PCE4770CT-ND	.46	13.02	21.70	PCE4770TR-ND	2,000	77.00/M	EEE-HB1HR33AR
	0.47	0.12	3.0	B	5	PCE4771CT-ND	.46	13.02	21.70	PCE4771TR-ND	2,000	77.00/M	EEE-HB1HR47AR
	1	0.12	3.0	B	10	PCE4760CT-ND	.46	13.02	21.70	PCE4760TR-ND	2,000	77.00/M	EEE-HB1H1R0AR
	2.2	0.12	3.0	B	16	PCE4762CT-ND	.46	13.02	21.70	PCE4762TR-ND	2,000	77.00/M	EEE-HB1H2R2AR
	3.3	0.12	3.0	B	16	PCE4764CT-ND	.46	13.02	21.70	PCE4764TR-ND	2,000	77.00/M	EEE-HB1H3R3AR
	4.7	0.12	3.0	C	23	PCE4766CT-ND	.54	15.42	25.70	PCE4766TR-ND	1,000	97.00	EEE-HB1H4R7AR
	6.8	0.12	3.4	C	23	PCE4767CT-ND	.54	15.42	25.70	PCE4767TR-ND	1,000	97.00	EEE-HB1H6R8AR
	10	0.12	5.0	D	35	PCE4759CT-ND	.64	18.18	30.30	PCE4759TR-ND	1,000	114.00	EEE-HB1H100AP
	22	0.14	11.0	D	35	PCE4797CT-ND	.67	19.99	34.99	PCE4797TR-ND	1,000	140.00	EEE-HBH220UAP
	22	0.12	11.0	E	70	PCE4761CT-ND	1.02	30.62	53.59	PCE4761TR-ND	1,000	214.00	EEE-HB1H220AP
	33	0.12	16.5	F	91	PCE4763CT-ND	1.03	32.90	59.22	PCE4763TR-ND	1,000	260.00	EEE-HB1H330AP
	47	0.12	23.5	D8	63	PCE4800CT-ND	.83	24.84	43.47	PCE4800TR-ND	900	165.60	EEE-HBH470YAP
	47	0.12	23.5	F	95	PCE4799CT-ND	1.04	35.19	63.89	PCE4799TR-ND	500	164.50	EEE-HBH470UAP
	47	0.12	23.5	G	100	PCE4765CT-ND	1.16	39.08	70.97	PCE4765TR-ND	500	182.50	EEE-HB1H470AP
	100	0.12	50.0	G	250	PCE4796CT-ND	1.27	42.98	78.04	PCE4796TR-ND	500	201.00	EEE-HBH101UAP
	220	0.18	110.0	G	270	PCE4798CT-ND	1.27	42.98	78.04	PCE4798TR-ND	500	201.00	EEE-HBH221UAP

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

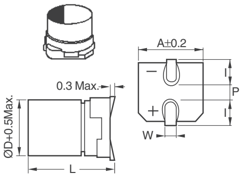

Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement **Specifications:** • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 250°C for five seconds

Following specified values:

Series	Impedance 120Hz	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V
HB	-25°C/+20°C	7	4	3	2	2	2	2
	-40°C/+20°C	15	8	6	4	4	3	3

Series	Case Code	Dimensions - mm D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
HB Long Life High Reliability Series: -40°C ~ 105°C (2,000 Hour Life)													
4	47	0.50	3.0	B	34	PCE4131CT-ND	.54	14.03	22.25	PCE4131TR-ND	2,000	75.00/M	EEE-HB0G470R
	100	0.50	4.0	C	61	PCE4129CT-ND	.48	13.83	23.05	PCE4129TR-ND	1,000	84.74	EEE-HB0G101R
	220	0.50	8.8	D	82	PCE4130CT-ND	.57	16.29	27.15	PCE4130TR-ND	1,000	99.94	EEE-HB0G221P
6.3	22	0.30	3.0	B	26	PCE4133CT-ND	.54	14.03	22.25	PCE4133TR-ND	2,000	75.00/M	EEE-HB0J220R
	33	0.30	3.0	B	29	PCE4134CT-ND	.54	14.03	22.25	PCE4134TR-ND	2,000	75.00/M	EEE-HB0J330R
	47	0.30	3.0	C	46	PCE4135CT-ND	.48	13.83	23.05	PCE4135TR-ND	1,000	84.74	EEE-HB0J470R
	100	0.30	6.3	D	71	PCE4132CT-ND	.57	16.29	27.15	PCE4132TR-ND	1,000	99.94	EEE-HB0J101P
10	33	0.22	3.3	C	43	PCE4136CT-ND	.48	13.83	23.05	PCE4136TR-ND	1,000	84.74	EEE-HB1A330R
16	10	0.16	3.0	B	28	PCE4137CT-ND	.54	14.03	22.25	PCE4137TR-ND	2,000	75.00/M	EEE-HB1C100R
	22	0.16	3.5	C	39	PCE4138CT-ND	.48	13.83	23.05	PCE4138TR-ND	1,000	84.74	EEE-HB1C220R
	47	0.16	7.5	D	70	PCE4139CT-ND	.57	16.29	27.15	PCE4139TR-ND	1,000	99.94	EEE-HB1C470P
25	4.7	0.14	3.0	B	22	PCE4141CT-ND	.54	14.03	22.25	PCE4141TR-ND	2,000	75.00/M	EEE-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE4142CT-ND	.54	14.03	22.25	PCE4142TR-ND	2,000	75.00/M	EEE-HB1E6R8R
	33	0.14	8.3	D	65	PCE4140CT-ND	.57	16.29	27.15	PCE4140TR-ND	1,000	99.94	EEE-HB1E330P
35	10	0.12	3.5	C	28	PCE4153CT-ND	.48	13.83	23.05	PCE4153TR-ND	1,000	84.74	EEE-HB1V100R
	22	0.12	7.7	D	55	PCE4154CT-ND	.57	16.29	27.15	PCE4154TR-ND	1,000	99.94	EEE-HB1V220P
50	0.1	0.12	3.0	B	1	PCE4149CT-ND	.54	14.03	22.25	PCE4149TR-ND	2,000	75.00/M	EEE-HB1HR10R
	0.22	0.12	3.0	B	2	PCE4150CT-ND	.54	14.03	22.25	PCE4150TR-ND	2,000	75.00/M	EEE-HB1HR22R
	0.33	0.12	3.0	B	3	PCE4151CT-ND	.54	14.03	22.25	PCE4151TR-ND	2,000	75.00/M	EEE-HB1HR33R
	0.47	0.12	3.0	B	5	PCE4152CT-ND	.54	14.03	22.25	PCE4152TR-ND	2,000	75.00/M	EEE-HB1HR47R
	1	0.12	3.0	B	10	PCE4144CT-ND	.54	14.03	22.25	PCE4144TR-ND	2,000	75.00/M	EEE-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE4145CT-ND	.54	14.03	22.25	PCE4145TR-ND	2,000	75.00/M	EEE-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE4146CT-ND	.54	14.03	22.25	PCE4146TR-ND	2,000	75.00/M	EEE-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE4147CT-ND	.48	13.83	23.05	PCE4147TR-ND	1,000	84.74	EEE-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE4148CT-ND	.57	16.29	27.15	PCE4148TR-ND	1,000	99.94	EEE-HB1H6R8R
	10	0.12	5.0	D	35	PCE4143CT-ND	.57	16.29	27.15	PCE4143TR-ND	1,000	99.94	EEE-HB1H100P

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

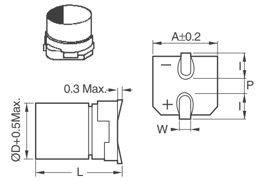

Features: • General Purpose • Life Time: 2000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C **• Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage						
	4V	6.3V	10V	16V	25V	35V	50V
-25°C/20°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

Size Code	Dimensions - mm					
	D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
HB Long Life High Reliability Series: –40°C ~ 105°C (2000 Hour Life)													
4	47	0.50	3.0	B	34	PCE3023CT-ND	.45	12.81	21.35	PCE3023TR-ND	2,000	76.86/M	EEV-HB0G470R
	100	0.50	4.0	C	61	PCE3024CT-ND	.53	15.27	25.45	PCE3024TR-ND	1,000	96.71	EEV-HB0G101R
	220	0.50	8.8	D	82	PCE3025CT-ND	.63	18.00	30.00	PCE3025TR-ND	1,000	114.00	EEV-HB0G221P
6.3	22	0.30	3.0	B	26	PCE3026CT-ND	.45	12.81	21.35	PCE3026TR-ND	2,000	76.86/M	EEV-HB0J220R
	33	0.30	3.0	B	29	PCE3027CT-ND	.45	12.81	21.35	PCE3027TR-ND	2,000	76.86/M	EEV-HB0J330R
	47	0.30	3.0	C	46	PCE3028CT-ND	.53	15.27	25.45	PCE3028TR-ND	1,000	96.71	EEV-HB0J470R
	100	0.30	6.3	D	71	PCE3029CT-ND	.63	18.00	30.00	PCE3029TR-ND	1,000	114.00	EEV-HB0J101P
10	33	0.22	3.3	C	43	PCE3030CT-ND	.53	15.27	25.45	PCE3030TR-ND	1,000	96.71	EEV-HB1A330R
16	10	0.16	3.0	B	28	PCE3031CT-ND	.45	12.81	21.35	PCE3031TR-ND	2,000	76.86/M	EEV-HB1C100R
	22	0.16	3.5	C	39	PCE3032CT-ND	.53	15.27	25.45	PCE3032TR-ND	1,000	96.71	EEV-HB1C220R
	47	0.16	7.5	D	70	PCE3033CT-ND	.63	18.00	30.00	PCE3033TR-ND	1,000	114.00	EEV-HB1C470P
25	4.7	0.14	3.0	B	22	PCE3034CT-ND	.45	12.81	21.35	PCE3034TR-ND	2,000	76.86/M	EEV-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE3035CT-ND	.45	12.81	21.35	PCE3035TR-ND	2,000	76.86/M	EEV-HB1E6R8R
	10	0.14	3.0	C	28	PCE3036CT-ND	1.08	34.40	61.92	PCE3036TR-ND	1,000	275.00	EEV-HB1E100R
	22	0.14	5.5	D	55	PCE3037CT-ND	1.13	38.00	69.00	PCE3037TR-ND	1,000	310.00	EEV-HB1E220P
	33	0.14	8.3	D	65	PCE3038CT-ND	.63	18.00	30.00	PCE3038TR-ND	1,000	114.00	EEV-HB1E330P
35	10	0.12	3.5	C	28	PCE3039CT-ND	.53	15.27	25.45	PCE3039TR-ND	1,000	96.71	EEV-HB1V100R
	22	0.12	7.7	D	55	PCE3040CT-ND	.63	18.00	30.00	PCE3040TR-ND	1,000	114.00	EEV-HB1V220P
50	0.1	0.12	3.0	B	1	PCE3041CT-ND	.45	12.81	21.35	PCE3041TR-ND	2,000	76.86/M	EEV-HB1HR10R
	0.22	0.12	3.0	B	2	PCE3042CT-ND	.45	12.81	21.35	PCE3042TR-ND	2,000	76.86/M	EEV-HB1HR22R
	0.33	0.12	3.0	B	3	PCE3043CT-ND	.45	12.81	21.35	PCE3043TR-ND	2,000	76.86/M	EEV-HB1HR33R
	0.47	0.12	3.0	B	5	PCE3044CT-ND	.45	12.81	21.35	PCE3044TR-ND	2,000	76.86/M	EEV-HB1HR47R
	1	0.12	3.0	B	10	PCE3045CT-ND	.45	12.81	21.35	PCE3045TR-ND	2,000	76.86/M	EEV-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE3046CT-ND	.45	12.81	21.35	PCE3046TR-ND	2,000	76.86/M	EEV-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE3047CT-ND	.45	12.81	21.35	PCE3047TR-ND	2,000	76.86/M	EEV-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE3048CT-ND	.53	15.27	25.45	PCE3048TR-ND	1,000	96.71	EEV-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE3049CT-ND	.63	18.00	30.00	PCE3049TR-ND	1,000	114.00	EEV-HB1H6R8R
	10.0	0.12	5.0	D	35	PCE3050CT-ND	.63	18.00	30.00	PCE3050TR-ND	1,000	114.00	EEV-HB1H100P

Panasonic®

HC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Specifications: • Category Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Rated Voltage:** 6.3, 10, 16, 25, 35 **• Surge Voltage:** 8, 13, 20, 32, 44 **• Life Time:** 3000 ~ 5000H ø8, ø10

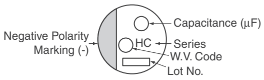

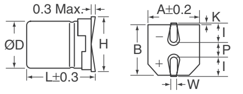

Following specified values:

Impedance 120Hz	Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C/20°C	3	3	2	2	2
-40°C/20°C	8	5	4	3	3

Rated Voltage Mark	
J	6.3V
A	10V
C	16V
E	25V
V	35V

Size Code	Dimensions - mm							
	D	L	A,B	H	I	W	P	K
B	4.0	5.8	4.3	5.5 Max.	1.8	0.65 ±0.1	1.0	0.35
C	5.0	5.8	5.3	6.5 Max.	2.2	0.65 ±0.1	1.5	0.35
D	6.3	5.8	6.6	7.8 Max.	2.6	0.65 ±0.1	1.8	0.35
D8	6.3	7.7	6.6	7.8 Max.	2.6	0.65 ±0.1	1.8	0.35
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90 ±0.2	3.1	0.70 ±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90 ±0.2	4.6	0.70 ±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
HC Series : –40°C ~ 105°C (3000 — 5000 Hour Life)													
6.3	22	0.30	3.0	B	26	PCE3739CT-ND	.48	13.68	22.80	PCE3739TR-ND	2,000	80.46/M	EEE-HC0J220R
	47	0.30	3.0	C	46	PCE3740CT-ND	.57	16.32	27.20	PCE3740TR-ND	1,000	101.46	EEE-HC0J470R
	100	0.30	6.3	D	71	PCE3741CT-ND	.67	19.26	32.10	PCE3741TR-ND	1,000	119.51	EEE-HC0J101P
	220	0.30	13.8	D8	101	PCE3742CT-ND	.70	20.98	36.71	PCE3742TR-ND	900	139.16	EEE-HC0J221XP
	330	0.30	20.7	F	230	PCE3743CT-ND	.85	27.18	48.92	PCE3743TR-ND	500	126.83	EEE-HC0J331P
	1000	0.50	63.0	G	313	PCE3744CT-ND	1.00	31.84	57.31	PCE3744TR-ND	500	148.49	EEE-HC0J102P
10	33	0.26	3.3	C	43	PCE3745CT-ND	.48	13.68	22.80	PCE3745TR-ND	1,000	84.93	EEE-HC1A330R
	220	0.26	22.0	F	160	PCE3746CT-ND	.85	27.18	48.92	PCE3746TR-ND	500	126.83	EEE-HC1A221P
16	10	0.20	3.0	B	28	PCE3747CT-ND	.48	13.68	22.80	PCE3747TR-ND	2,000	80.46/M	EEE-HC1C100R
	22	0.20	3.5	C	39	PCE3748CT-ND	.57	16.32	27.20	PCE3748TR-ND	1,000	101.46	EEE-HC1C220R
	47	0.20	7.5	D	70	PCE3749CT-ND	.67	19.26	32.10	PCE3749TR-ND	1,000	119.51	EEE-HC1C470P
	100	0.20	16.0	D8	81	PCE3750CT-ND	.70	20.98	36.71	PCE3750TR-ND	900	139.16	EEE-HC1C101XP
	470	0.20	75.2	G	340	PCE3751CT-ND	1.00	31.84	57.31	PCE3751TR-ND	500	148.49	EEE-HC1C471P
25	33	0.16	8.2	D	65	PCE3752CT-ND	.57	16.32	27.20	PCE3752TR-ND	1,000	101.46	EEE-HC1E330P
	47	0.16	11.7	D8	65	PCE3753CT-ND	.70	20.98	36.71	PCE3753TR-ND	900	139.16	EEE-HC1E470XP
	100	0.16	25.0	F	130	PCE3754CT-ND	.85	27.18	48.92	PCE3754TR-ND	500	126.83	EEE-HC1E101P
	330	0.16	82.5	G	238	PCE3755CT-ND	1.00	31.84	57.31	PCE3755TR-ND	500	148.49	EEE-HC1E331P
35	4.7	0.14	3.0	B	15	PCE3756CT-ND	.48	13.68	22.80	PCE3756TR-ND	2,000	80.46/M	EEE-HC1V4R7R
	10	0.14	3.5	C	28	PCE3757CT-ND	.57	16.32	27.20	PCE3757TR-ND	1,000	101.46	EEE-HC1V100R
	22	0.14	7.7	D	55	PCE3758CT-ND	.67	19.26	32.10	PCE3758TR-ND	1,000	119.51	EEE-HC1V220P
	33	0.14	11.5	D8	57	PCE3759CT-ND	.70	20.98	36.71	PCE3759TR-ND	900	139.16	EEE-HC1V330XP
	220	0.14	77.0	G	220	PCE3760CT-ND	1.00	31.84	57.31	PCE3760TR-ND	500	148.49	EEE-HC1V221P

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

HD Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow

Digi-Reel® RoHS COMPLIANT

Features: • Long Life • Life Time: 5000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C

Low Temperature Characteristics: Impedance ratio (120Hz)

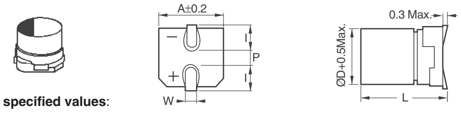

Following specified values:

Impedance 120Hz	Working Voltage							
	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/20°C	3	3	2	2	2	2	2	2
-40°C/20°C	4	4	3	3	3	3	3	3

Size Code	Dimensions – mm					
	D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
HD Series: –40°C ~ 105°C (5000 Hour Life)														
6.3	330	0.30	1.5	20.7	F	230	PCE4944CT-ND	1.08	34.46	62.03	PCE4944TR-ND	500	163.50	EEE-HD0J331AP
	1000	0.50	0.8	63.0	G	313	PCE4945CT-ND	1.14	38.34	69.62	PCE4945TR-ND	500	181.50	EEE-HD0J102AP
10	100	0.30	2.0	10.0	E	62	PCE4946CT-ND	.83	26.58	47.84	PCE4946TR-ND	1,000	213.00	EEE-HD1A101AP
	220	0.30	1.5	22.0	F	160	PCE4947CT-ND	1.08	34.46	62.03	PCE4947TR-ND	500	163.50	EEE-HD1A221AP
	330	0.30	0.8	33.0	G	238	PCE4948CT-ND	1.14	38.34	69.62	PCE4948TR-ND	500	181.50	EEE-HD1A331AP
16	10	0.20	12.0	3.0	B	28	PCE4949CT-ND	.53	15.09	25.15	PCE4949TR-ND	2,000	91.00/M	EEE-HD1C100AR
	22	0.20	7.2	3.5	C	39	PCE4950CT-ND	.63	18.00	30.00	PCE4950TR-ND	1,000	114.00	EEE-HD1C220AR
	47	0.20	4.0	7.5	D	70	PCE4951CT-ND	.56	16.90	29.57	PCE4951TR-ND	1,000	120.00	EEE-HD1C470AP
	100	0.20	1.5	16.0	F	130	PCE4952CT-ND	1.08	34.46	62.03	PCE4952TR-ND	500	163.50	EEE-HD1C101AP
	220	0.20	0.8	35.2	G	220	PCE4953CT-ND	1.14	38.34	69.62	PCE4953TR-ND	500	181.50	EEE-HD1C221AP
	470	0.20	0.8	75.2	G	340	PCE4954CT-ND	1.14	38.34	69.62	PCE4954TR-ND	500	181.50	EEE-HD1C471AP
25	4.7	0.16	12.0	3.0	B	17	PCE4955CT-ND	.53	15.09	25.15	PCE4955TR-ND	2,000	91.00/M	EEE-HD1E4R7AR
	10	0.16	7.2	3.0	C	28	PCE4956CT-ND	.63	18.00	30.00	PCE4956TR-ND	1,000	114.00	EEE-HD1E100AR
	22	0.16	4.0	5.5	D	55	PCE4957CT-ND	.56	16.90	29.57	PCE4957TR-ND	1,000	120.00	EEE-HD1E220AP
	33	0.16	4.0	8.2	D	55	PCE4958CT-ND	.56	16.90	29.57	PCE4958TR-ND	1,000	120.00	EEE-HD1E330AP
	47	0.18	2.0	11.7	E	56	PCE4959CT-ND	.83	26.58	47.84	PCE4959TR-ND	1,000	213.00	EEE-HD1E470AP
	100	0.16	1.5	25.0	F	130	PCE4960CT-ND	1.08	34.46	62.03	PCE4960TR-ND	500	163.50	EEE-HD1E101AP
	330	0.16	0.8	82.5	G	238	PCE4961CT-ND	1.14	38.34	69.62	PCE4961TR-ND	500	181.50	EEE-HD1E331AP
35	4.7	0.13	12.0	3.0	B	17	PCE4962CT-ND	.53	15.09	25.15	PCE4962TR-ND	2,000	91.00/M	EEE-HD1V4R7AR
	10	0.13	7.2	3.5	C	28	PCE4963CT-ND	.63	18.00	30.00	PCE4963TR-ND	1,000	114.00	EEE-HD1V100AR
	22	0.13	4.0	7.7	D	55	PCE4964CT-ND	.56	16.90	29.57	PCE4964TR-ND	1,000	120.00	EEE-HD1V220AP
	33	0.16	2.0	11.5	E	53	PCE4965CT-ND	.83	26.58	47.84	PCE4965TR-ND	1,000	213.00	EEE-HD1V330AP
	33	0.13	2.0	11.5	D8	57	PCE4966CT-ND	.77	23.14	40.49	PCE4966TR-ND	900	156.60	EEE-HDV330XAP
	47	0.14	1.5	16.4	F	79	PCE4967CT-ND	1.08	34.46	62.03	PCE4967TR-ND	500	163.50	EEE-HD1V470AP
	47	0.14	2.0	16.4	D8	57	PCE4968CT-ND	.77	23.14	40.49	PCE4968TR-ND	900	156.60	EEE-HDV470XAP
	100	0.14	0.8	35.0	G	101	PCE4969CT-ND	1.14	38.34	69.62	PCE4969TR-ND	500	181.50	EEE-HD1V101AP
	220	0.14	0.8	77.0	G	220	PCE4970CT-ND	1.14	38.34	69.62	PCE4970TR-ND	500	181.50	EEE-HD1V221AP
50	0.47	0.12	12.0	3.0	B	5	PCE4971CT-ND	.48	13.71	22.85	PCE4971TR-ND	2,000	82.00/M	EEE-HD1HR47R
	1	0.12	12.0	3.0	B	7	PCE4972CT-ND	.48	13.71	22.85	PCE4972TR-ND	2,000	82.00/M	EEE-HD1H1R0R
	2.2	0.12	12.0	3.0	B	12	PCE4973CT-ND	.48	13.71	22.85	PCE4973TR-ND	2,000	82.00/M	EEE-HD1H2R2R
	3.3	0.12	12.0	3.0	B	16	PCE4974CT-ND	.48	13.71	22.85	PCE4974TR-ND	2,000	82.00/M	EEE-HD1H3R3R
	4.7	0.12	7.2	3.0	C	21	PCE4975CT-ND	.57	16.35	27.25	PCE4975TR-ND	1,000	104.00	EEE-HD1H4R7R
	10	0.12	4.0	5.0	D	33	PCE4976CT-ND	.67	19.20	32.00	PCE4976TR-ND	1,000	122.00	EEE-HD1H100P
	22	0.14	2.0	11.0	E	50	PCE4977CT-ND	.98	31.32	56.38	PCE4977TR-ND	1,000	251.00	EEE-HD1H220P
	33	0.14	1.5	16.5	F	74	PCE4978CT-ND	.98	31.32	56.38	PCE4978TR-ND	500	149.00	EEE-HD1H330P
	47	0.14	0.8	23.5	G	94	PCE4979CT-ND	1.03	34.87	63.31	PCE4979TR-ND	500	165.00	EEE-HD1H470P
	100	0.14	0.8	50.0	G	94	PCE4980CT-ND	1.03	34.87	63.31	PCE4980TR-ND	500	165.00	EEE-HD1H101P
63	10	0.18	2.0	6.3	E	45	PCE4981CT-ND	.97	29.02	50.78	PCE4981TR-ND	1,000	206.00	EEE-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE4982CT-ND	.98	31.32	56.38	PCE4982TR-ND	500	149.00	EEE-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE4983CT-ND	1.03	34.87	63.31	PCE4983TR-ND	500	165.00	EEE-HD1J330P
100	3.3	0.18	2.0	3.3	E	30	PCE4984CT-ND	.97	29.02	50.78	PCE4984TR-ND	1,000	206.00	EEE-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE4985CT-ND	.98	31.32	56.38	PCE4985TR-ND	500	149.00	EEE-HD2A4R7P
	10	0.18	1.5	10.0	F	55	PCE4986CT-ND	.98	31.32	56.38	PCE4986TR-ND	500	149.00	EEE-HD2A100P
	22	0.18	0.8	22.0	G	70	PCE4987CT-ND	1.03	34.87	63.31	PCE4987TR-ND	500	165.00	EEE-HD2A220P

Panasonic®

HD Series Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

Features: • Long Life • Life Time: 5000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C

Low Temperature Characteristics: Impedance ratio (120Hz)

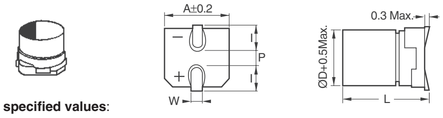

Following specified values:

Impedance 120Hz	Working Voltage						
	10V	16V	25V	35V	50V	63V	100V
-25°C/20°C	6	2	2	2	2	2	2
-40°C/20°C	12	5	3	3	3	3	3

Size Code	Dimensions – mm					
	D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
HD Series: –40°C ~ 105°C (5000 Hour Life)														
10	100	0.30	2.0	10.0	E	62	PCE3364CT-ND	.98	29.45	51.53	PCE3364TR-ND	1,000	209.00	EEV-HD1A101P
	220	0.30	1.5	22.0	F	93	PCE3365CT-ND	.99	31.80	57.24	PCE3365TR-ND	500	151.05	EEV-HD1A221P
	330	0.30	0.8	33.0	G	118	PCE3366CT-ND	1.05	35.40	64.27	PCE3366TR-ND	500	167.67	EEV-HD1A331P
16	10	0.20	12.0	3.0	B	20	PCE3338CT-ND	.56	16.05	26.75	PCE3338TR-ND	2,000	96.30/M	EEV-HD1C100R
	22	0.20	7.2	3.5	C	33	PCE3339CT-ND	.67	19.08	31.80	PCE3339TR-ND	1,000	120.84	EEV-HD1C220R
	47	0.20	4.0	7.5	D	55	PCE3340CT-ND	.60	18.00	31.50	PCE3340TR-ND	1,000	127.50	EEV-HD1C470P

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
16	100	0.23	1.5	16.0	F	89	PCE3367CT-ND	.99	31.80	57.24	PCE3367TR-ND	500	151.05	EEV-HD1C101P
	220	0.23	0.8	35.2	G	113	PCE3368CT-ND	1.46	52.62	96.47	PCE3368TR-ND	500	248.50	EEV-HD1C221P
25	33	0.16	4.0	8.3	D	52	PCE3341CT-ND	.60	18.00	31.50	PCE3341TR-ND	1,000	127.50	EEV-HD1E330P
	47	0.18	2.0	11.8	E	56	PCE3369CT-ND	.98	29.45	51.53	PCE3369TR-ND	1,000	209.00	EEV-HD1E470P
	100	0.18	1.5	25.0	F	84	PCE3370CT-ND	.99	31.80	57.24	PCE3370TR-ND	500	151.05	EEV-HD1E101P
35	4.7	0.13	12.0	3.0	B	17	PCE3342CT-ND	.56	16.05	26.75	PCE3342TR-ND	2,000	96.30/M	EEV-HD1V4R7R
	10	0.13	7.2	3.5	C	28	PCE3343CT-ND	.67	19.08	31.80	PCE3343TR-ND	1,000	120.84	EEV-HD1V100R
	22	0.13	4.0	7.7	D	47	PCE3344CT-ND	.60	18.00	31.50	PCE3344TR-ND	1,000	127.50	EEV-HD1V220P
	33	0.16	2.0	11.6	E	53	PCE3371CT-ND	.98	29.45	51.53	PCE3371TR-ND	1,000	209.00	EEV-HD1V330P
	47	0.16	1.5	16.5	F	79	PCE3372CT-ND	.99	31.80	57.24	PCE3372TR-ND	500	151.05	EEV-HD1V470P
	100	0.16	0.8	35.0	G	101	PCE3373CT-ND	1.05	35.40	64.27	PCE3373TR-ND	500	167.67	EEV-HD1V101P
50	0.47	0.12	12.0	3.0	B	5	PCE3345CT-ND	.56	16.05	26.75	PCE3345TR-ND	2,000	96.30/M	EEV-HD1HR47R
	1.0	0.12	12.0	3.0	B	7	PCE3346CT-ND	.56	16.05	26.75	PCE3346TR-ND	2,000	96.30/M	EEV-HD1H1R0R
	2.2	0.12	12.0	3.0	B	12	PCE3347CT-ND	.56	16.05	26.75	PCE3347TR-ND	2,000	96.30/M	EEV-HD1H2R2R
	3.3	0.12	12.0	3.0	B	16	PCE3348CT-ND	.56	16.05	26.75	PCE3348TR-ND	2,000	96.30/M	EEV-HD1H3R3R
	4.7	0.12	7.2	3.0	C	21	PCE3349CT-ND	.67	19.08	31.80	PCE3349TR-ND	1,000	120.84	EEV-HD1H4R7R
	10	0.12	4.0	5.0	D	33	PCE3350CT-ND	.60	18.00	31.50	PCE3350TR-ND	1,000	127.50	EEV-HD1H100P
	22	0.14	2.0	11.0	E	50	PCE3374CT-ND	.98	29.45	51.53	PCE3374TR-ND	1,000	209.00	EEV-HD1H220P
	33	0.14	1.5	16.5	F	74	PCE3375CT-ND	.99	31.80	57.24	PCE3375TR-ND	500	151.05	EEV-HD1H330P
	47	0.14	0.8	23.5	G	94	PCE3376CT-ND	1.05	35.40	64.27	PCE3376TR-ND	500	167.67	EEV-HD1H470P
63	10	0.18	2.0	6.3	E	45	PCE3571CT-ND	.98	29.45	51.53	PCE3571TR-ND	1,000	209.00	EEV-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE3572CT-ND	.99	31.80	57.24	PCE3572TR-ND	500	151.05	EEV-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE3573CT-ND	1.05	35.40	64.27	PCE3573TR-ND	500	167.67	EEV-HD1J330P
100	3.3	0.18	2.0	3.3	E	30	PCE3576CT-ND	.98	29.45	51.53	PCE3576TR-ND	1,000	209.00	EEV-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE3577CT-ND	.99	31.80	57.24	PCE3577TR-ND	500	151.05	EEV-HD2A4R7P
	10.0	0.18	1.5	10.0	F	55	PCE3574CT-ND	.99	31.80	57.24	PCE3574TR-ND	500	151.05	EEV-HD2A100P
	22.0	0.18	0.8	22.0	G	70	PCE3575CT-ND	1.05	35.40	64.27	PCE3575TR-ND	500	167.67	EEV-HD2A220P

Panasonic® FC Series

Digi-Reel® RoHS COMPLIANT

Aluminum Electrolytic Capacitors, Surface Mount Type

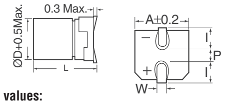

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow:** 4 - 6.3mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Size Code	Dimensions – mm D	L	A	l	W	P
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100kHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)														
6.3	22	0.26	3.00	3.0	B	60	PCE3984CT-ND	.47	13.50	22.50	PCE3984TR-ND	2,000	78.66/M	EEE-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3987CT-ND	.56	16.11	26.85	PCE3987TR-ND	1,000	98.99	EEE-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3988CT-ND	.66	18.99	31.65	PCE3988TR-ND	1,000	116.66	EEE-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3981CT-ND	.66	18.99	31.65	PCE3981TR-ND	1,000	116.66	EEE-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3985CT-ND	.83	24.86	43.51	PCE3985TR-ND	1,000	170.68	EEE-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3986CT-ND	.84	26.86	48.35	PCE3986TR-ND	500	123.60	EEE-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3982CT-ND	.98	31.44	56.59	PCE3982TR-ND	500	144.88	EEE-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3983CT-ND	1.08	34.54	62.17	PCE3983TR-ND	500	158.94	EEE-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3993CT-ND	.56	16.11	26.85	PCE3993TR-ND	1,000	98.99	EEE-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3989CT-ND	.83	24.86	43.51	PCE3989TR-ND	1,000	170.68	EEE-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3991CT-ND	.83	24.86	43.51	PCE3991TR-ND	1,000	170.68	EEE-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3992CT-ND	.84	26.86	48.35	PCE3992TR-ND	500	123.60	EEE-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3994CT-ND	.98	31.44	56.59	PCE3994TR-ND	500	144.88	EEE-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3990CT-ND	.98	31.44	56.59	PCE3990TR-ND	500	144.88	EEE-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3995CT-ND	.47	13.50	22.50	PCE3995TR-ND	2,000	78.66/M	EEE-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3997CT-ND	.56	16.11	26.85	PCE3997TR-ND	1,000	98.99	EEE-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE4000CT-ND	.66	18.99	31.65	PCE4000TR-ND	1,000	116.66	EEE-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE4002CT-ND	.83	24.86	43.51	PCE4002TR-ND	1,000	170.68	EEE-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3996CT-ND	.83	24.86	43.51	PCE3996TR-ND	1,000	170.68	EEE-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3998CT-ND	.98	31.44	56.59	PCE3998TR-ND	500	144.88	EEE-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3999CT-ND	.98	31.44	56.59	PCE3999TR-ND	500	144.88	EEE-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE4001CT-ND	.98	31.44	56.59	PCE4001TR-ND	500	144.88	EEE-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE4011CT-ND	.47	13.50	22.50	PCE4011TR-ND	2,000	78.66/M	EEE-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE4004CT-ND	.66	18.99	31.65	PCE4004TR-ND	1,000	116.66	EEE-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE4006CT-ND	.66	18.99	31.65	PCE4006TR-ND	1,000	116.66	EEE-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE4008CT-ND	.83	24.86	43.51	PCE4008TR-ND	1,000	170.68	EEE-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE4010CT-ND	.84	26.86	48.35	PCE4010TR-ND	500	123.60	EEE-FC1E680P
	100	0.14	0.30	25.0	F	450	PCE4003CT-ND	.84	26.86	48.35	PCE4003TR-ND	500	123.60	EEE-FC1E101P
	220	0.14	0.15	55.0	G	670	PCE4005CT-ND	.98	31.44	56.59	PCE4005TR-ND	500	144.88	EEE-FC1E221P
	330	0.14	0.15	82.5	G	670	PCE4007CT-ND	.98	31.44	56.59	PCE4007TR-ND	500	144.88	EEE-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE4009CT-ND	1.08	34.54	62.17	PCE4009TR-ND	500	158.94	EEE-FC1E471P

(Continued)

Panasonic FC Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100kHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
35	1.0	0.12	3.00	3.0	B	60	PCE4024CT-ND	.47	13.50	22.50	PCE4024TR-ND	2,000	78.66/M	EEE-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE4027CT-ND	.47	13.50	22.50	PCE4027TR-ND	2,000	78.66/M	EEE-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE4030CT-ND	.47	13.50	22.50	PCE4030TR-ND	2,000	78.66/M	EEE-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE4032CT-ND	.47	13.50	22.50	PCE4032TR-ND	2,000	78.66/M	EEE-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE4033CT-ND	.56	16.11	26.85	PCE4033TR-ND	1,000	98.99	EEE-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE4022CT-ND	.56	16.11	26.85	PCE4022TR-ND	1,000	98.99	EEE-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE4025CT-ND	.66	18.99	31.65	PCE4025TR-ND	1,000	116.66	EEE-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE4028CT-ND	.83	24.86	43.51	PCE4028TR-ND	1,000	170.68	EEE-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE4031CT-ND	.83	24.86	43.51	PCE4031TR-ND	1,000	170.68	EEE-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE4023CT-ND	.98	31.44	56.59	PCE4023TR-ND	500	144.88	EEE-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE4026CT-ND	.98	31.44	56.59	PCE4026TR-ND	500	144.88	EEE-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE4029CT-ND	1.08	34.54	62.17	PCE4029TR-ND	500	158.94	EEE-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE4014CT-ND	.47	13.50	22.50	PCE4014TR-ND	2,000	78.66/M	EEE-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE4017CT-ND	.47	13.50	22.50	PCE4017TR-ND	2,000	78.66/M	EEE-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE4019CT-ND	.47	13.50	22.50	PCE4019TR-ND	2,000	78.66/M	EEE-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE4021CT-ND	.56	16.11	26.85	PCE4021TR-ND	1,000	98.99	EEE-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE4012CT-ND	.66	18.99	31.65	PCE4012TR-ND	1,000	116.66	EEE-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE4015CT-ND	.83	24.86	43.51	PCE4015TR-ND	1,000	170.68	EEE-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE4018CT-ND	.84	26.86	48.35	PCE4018TR-ND	500	123.60	EEE-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE4020CT-ND	.98	31.44	56.59	PCE4020TR-ND	500	144.88	EEE-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE4013CT-ND	.98	31.44	56.59	PCE4013TR-ND	500	144.88	EEE-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE4016CT-ND	1.08	34.54	62.17	PCE4016TR-ND	500	158.94	EEE-FC1H221P

Panasonic FC Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: Reflow (I.R. or I.R. + Heated Air. VPS not allowed.)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥230°C)	Duration (Temp. ≥255°C)	Reflow Frequency
4 ~ 6.3, 8 x 10.2 (B, C, D, F)	260°C	60 seconds	5 seconds	2‡
8 x 6.2, 10 x 10.2 (E, G)	260°C	60 seconds	5 seconds	1

‡ Capacitor must return to room temperature before the second reflow.

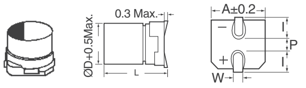

Impedance 120Hz	Rated Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C/20°C	2	2	2	2	2
-40°C/20°C	3	3	3	3	3

Size Code	Dimensions – mm					
	D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100kHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
6.3	22	0.26	3.00	3.0	B	60	PCE4329CT-ND	.52	14.88	24.80	PCE4329TR-ND	2,000	88.00/M	EEE-FC0J220AR
	47	0.26	1.80	3.0	C	95	PCE4330CT-ND	.62	17.70	29.50	PCE4330TR-ND	1,000	110.00	EEE-FC0J470AR
	68	0.26	1.00	4.3	D	140	PCE4331CT-ND	.73	20.88	34.80	PCE4331TR-ND	1,000	130.00	EEE-FC0J680AP
	100	0.26	1.00	6.3	D	140	PCE4332CT-ND	.73	20.88	34.80	PCE4332TR-ND	1,000	130.00	EEE-FC0J101AP
	220	0.26	0.40	13.8	E	230	PCE4333CT-ND	.91	27.36	47.88	PCE4333TR-ND	1,000	190.00	EEE-FC0J221AP
	330	0.26	0.30	20.7	F	450	PCE4334CT-ND	.92	29.52	53.14	PCE4334TR-ND	500	137.50	EEE-FC0J331AP
	1000	0.26	0.15	63.0	G	670	PCE4335CT-ND	1.08	34.60	62.28	PCE4335TR-ND	500	161.50	EEE-FC0J102AP
	1500	0.26	0.15	94.5	G	670	PCE4336CT-ND	1.07	36.08	65.52	PCE4336TR-ND	500	168.00	EEE-FC0J152AP
10	33	0.19	1.80	3.3	C	95	PCE4337CT-ND	.62	17.70	29.50	PCE4337TR-ND	1,000	110.00	EEE-FC1A330AR
	100	0.19	0.40	10.0	E	230	PCE4338CT-ND	.91	27.36	47.88	PCE4338TR-ND	1,000	190.00	EEE-FC1A101AP
	150	0.19	0.40	15.0	E	230	PCE4339CT-ND	.91	27.36	47.88	PCE4339TR-ND	1,000	190.00	EEE-FC1A151AP
	220	0.19	0.30	22.0	F	450	PCE4340CT-ND	.92	29.52	53.14	PCE4340TR-ND	500	137.50	EEE-FC1A221AP
	470	0.19	0.15	47.0	G	670	PCE4341CT-ND	1.08	34.60	62.28	PCE4341TR-ND	500	161.50	EEE-FC1A471AP
	1000	0.19	0.15	100.0	G	670	PCE4342CT-ND	1.08	34.60	62.28	PCE4342TR-ND	500	161.50	EEE-FC1A102AP
16	10	0.16	3.00	3.0	B	60	PCE4343CT-ND	.52	14.88	24.80	PCE4343TR-ND	2,000	88.00/M	EEE-FC1C100AR
	22	0.16	1.80	3.5	C	95	PCE4344CT-ND	.62	17.70	29.50	PCE4344TR-ND	1,000	110.00	EEE-FC1C220AR
	47	0.16	1.00	7.5	D	140	PCE4345CT-ND	.73	20.88	34.80	PCE4345TR-ND	1,000	130.00	EEE-FC1C470AP
	68	0.16	0.40	10.8	E	230	PCE4346CT-ND	.91	27.36	47.88	PCE4346TR-ND	1,000	190.00	EEE-FC1C680AP
	100	0.16	0.40	16.0	E	230	PCE4347CT-ND	.91	27.36	47.88	PCE4347TR-ND	1,000	190.00	EEE-FC1C101AP
	220	0.16	0.15	35.2	G	670	PCE4348CT-ND	1.08	34.60	62.28	PCE4348TR-ND	500	161.50	EEE-FC1C221AP
	330	0.16	0.15	52.8	G	670	PCE4349CT-ND	1.08	34.60	62.28	PCE4349TR-ND	500	161.50	EEE-FC1C331AP
	470	0.16	0.15	75.2	G	670	PCE4350CT-ND	1.08	34.60	62.28	PCE4350TR-ND	500	161.50	EEE-FC1C471AP
	680	0.16	0.15	108.8	G	670	PCE4351CT-ND	1.07	36.08	65.52	PCE4351TR-ND	500	168.00	EEE-FC1C681AP
25	6.8	0.14	3.00	3.0	B	60	PCE4352CT-ND	.52	14.88	24.80	PCE4352TR-ND	2,000	88.00/M	EEE-FC1E6R8AR
	22	0.14	1.00	5.5	D	140	PCE4353CT-ND	.73	20.88	34.80	PCE4353TR-ND	1,000	130.00	EEE-FC1E220AP
	33	0.14	1.00	8.2	D	140	PCE4354CT-ND	.73	20.88	34.80	PCE4354TR-ND	1,000	130.00	EEE-FC1E330AP
	47	0.14	0.40	11.7	E	230	PCE4355CT-ND	.91	27.36	47.88	PCE4355TR-ND	1,000	190.00	EEE-FC1E470AP
	68	0.14	0.30	17.0	F	450	PCE4356CT-ND	.92	29.52	53.14	PCE4356TR-ND	500	137.50	EEE-FC1E680AP
	100	0.14	0.30	25.0	F	450	PCE4357CT-ND	.92	29.52	53.14	PCE4357TR-ND	500	137.50	EEE-FC1E101AP
	220	0.14	0.15	55.0	G	670	PCE4358CT-ND	1.08	34.60	62.28	PCE4358TR-ND	500	161.50	EEE-FC1E221AP
	330	0.14	0.15	82.5	G	670	PCE4359CT-ND	1.08	34.60	62.28	PCE4359TR-ND	500	161.50	EEE-FC1E331AP
	470	0.14	0.15	117.5	G	670	PCE4360CT-ND	1.07	36.08	65.52	PCE4360TR-ND	500	168.00	EEE-FC1E471AP
35	1	0.12	3.00	3.0	B	60	PCE4361CT-ND	.52	14.88	24.80	PCE4361TR-ND	2,000	88.00/M	EEE-FC1V1R0AR
	2.2	0.12	3.00	3.0	B	60	PCE4362CT-ND	.52	14.88	24.80	PCE4362TR-ND	2,000	88.00/M	EEE-FC1V2R2AR
	3.3	0.12	3.00	3.0	B	60	PCE4363CT-ND	.52	14.88	24.80	PCE4363TR-ND	2,000	88.00/M	EEE-FC1V3R3AR
	4.7	0.12	3.00	3.0	B	60	PCE4364CT-ND	.52	14.88	24.80	PCE4364TR-ND	2,000	88.00/M	EEE-FC1V4R7AR
	6.8	0.12	1.80	3.0	C	95	PCE4365CT-ND	.62	17.70	29.50	PCE4365TR-ND	1,000	110.00	EEE-FC1V6R8AR
	10	0.12	1.80	3.5	C	95	PCE4366CT-ND	.62	17.70	29.50	PCE4366TR-ND	1,000	110.00	EEE-FC1V100AR
	22	0.12	1.00	7.7	D	140	PCE4367CT-ND	.73	20.88	34.80	PCE4367TR-ND	1,000	130.00	EEE-FC1V220AP
	33	0.12	0.40	11.5	E	230	PCE4368CT-ND	.91	27.36	47.88	PCE4368TR-ND	1,000	190.00	EEE-FC1V330AP
	47	0.12	0.40	16.4	E	230	PCE4369CT-ND	.91	27.36	47.88	PCE4369TR-ND	1,000	190.00	EEE-FC1V470AP
	100	0.12	0.15	35.0	G	670	PCE4370CT-ND	1.08	34.60	62.28	PCE4370TR-ND	500	161.50	EEE-FC1V101AP
	220	0.12	0.15	77.0	G	670	PCE4371CT-ND	1.08	34.60	62.28	PCE4371TR-ND	500	161.50	EEE-FC1V221AP
	330	0.12	0.15	115.5	G	670	PCE4372CT-ND	1.07	36.08	65.52	PCE4372TR-ND	500	168.00	EEE-FC1V331AP

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® FC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

DigiReel®

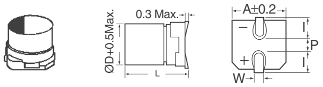

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage					
	6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Size Code	Dimensions — mm					
	øD	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leakage Current (μA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)														
6.3	22	0.26	3.00	3.0	B	60	PCE3090CT-ND	.52	14.94	24.90	PCE3090TR-ND	2,000	89.64/M	EEV-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3091CT-ND	.62	17.82	29.70	PCE3091TR-ND	1,000	112.86	EEV-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3092CT-ND	.56	16.80	29.40	PCE3092TR-ND	1,000	119.00	EEV-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3093CT-ND	.56	16.80	29.40	PCE3093TR-ND	1,000	119.00	EEV-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3094CT-ND	.92	27.48	48.09	PCE3094TR-ND	1,000	195.00	EEV-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3095CT-ND	.93	29.68	53.42	PCE3095TR-ND	500	140.98	EEV-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3243CT-ND	1.09	34.76	62.57	PCE3243TR-ND	500	165.11	EEV-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3244CT-ND	1.07	36.25	65.83	PCE3244TR-ND	500	171.72	EEV-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3096CT-ND	.62	17.82	29.70	PCE3096TR-ND	1,000	112.86	EEV-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3097CT-ND	.92	27.48	48.09	PCE3097TR-ND	1,000	195.00	EEV-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3098CT-ND	.92	27.48	48.09	PCE3098TR-ND	1,000	195.00	EEV-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3099CT-ND	.93	29.68	53.42	PCE3099TR-ND	500	140.98	EEV-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3100CT-ND	1.09	34.76	62.57	PCE3100TR-ND	500	165.11	EEV-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3245CT-ND	1.09	34.76	62.57	PCE3245TR-ND	500	165.11	EEV-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3101CT-ND	.52	14.94	24.90	PCE3101TR-ND	2,000	89.64/M	EEV-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3102CT-ND	.62	17.82	29.70	PCE3102TR-ND	1,000	112.86	EEV-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE3103CT-ND	.56	16.80	29.40	PCE3103TR-ND	1,000	119.00	EEV-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE3104CT-ND	.92	27.48	48.09	PCE3104TR-ND	1,000	195.00	EEV-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3105CT-ND	.92	27.48	48.09	PCE3105TR-ND	1,000	195.00	EEV-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3106CT-ND	1.09	34.76	62.57	PCE3106TR-ND	500	165.11	EEV-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3107CT-ND	1.09	34.76	62.57	PCE3107TR-ND	500	165.11	EEV-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE3246CT-ND	1.09	34.76	62.57	PCE3246TR-ND	500	165.11	EEV-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE3108CT-ND	.52	14.94	24.90	PCE3108TR-ND	2,000	89.64/M	EEV-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE3109CT-ND	.56	16.80	29.40	PCE3109TR-ND	1,000	119.00	EEV-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE3110CT-ND	.56	16.80	29.40	PCE3110TR-ND	1,000	119.00	EEV-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE3111CT-ND	.92	27.48	48.09	PCE3111TR-ND	1,000	195.00	EEV-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE3112CT-ND	.93	29.68	53.42	PCE3112TR-ND	500	140.98	EEV-FC1E680P
	100	0.14	0.30	25.0	F	450	PCE3247CT-ND	.93	29.68	53.42	PCE3247TR-ND	500	140.98	EEV-FC1E101P
	330	0.14	0.15	82.5	G	670	PCE3248CT-ND	1.09	34.76	62.57	PCE3248TR-ND	500	165.11	EEV-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE3249CT-ND	1.07	36.25	65.83	PCE3249TR-ND	500	171.72	EEV-FC1E471P
35	1.0	0.12	3.00	3.0	B	60	PCE3113CT-ND	.52	14.94	24.90	PCE3113TR-ND	2,000	89.64/M	EEV-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE3114CT-ND	.52	14.94	24.90	PCE3114TR-ND	2,000	89.64/M	EEV-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE3115CT-ND	.52	14.94	24.90	PCE3115TR-ND	2,000	89.64/M	EEV-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE3116CT-ND	.52	14.94	24.90	PCE3116TR-ND	2,000	89.64/M	EEV-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE3117CT-ND	.62	17.82	29.70	PCE3117TR-ND	1,000	112.86	EEV-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE3118CT-ND	.62	17.82	29.70	PCE3118TR-ND	1,000	112.86	EEV-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE3119CT-ND	.56	16.80	29.40	PCE3119TR-ND	1,000	119.00	EEV-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE3120CT-ND	.92	27.48	48.09	PCE3120TR-ND	1,000	195.00	EEV-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE3121CT-ND	.92	27.48	48.09	PCE3121TR-ND	1,000	195.00	EEV-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE3122CT-ND	1.09	34.76	62.57	PCE3122TR-ND	500	165.11	EEV-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE3250CT-ND	1.09	34.76	62.57	PCE3250TR-ND	500	165.11	EEV-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE3251CT-ND	1.07	36.25	65.83	PCE3251TR-ND	500	171.72	EEV-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE3252CT-ND	.52	14.94	24.90	PCE3252TR-ND	2,000	89.64/M	EEV-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE3253CT-ND	.52	14.94	24.90	PCE3253TR-ND	2,000	89.64/M	EEV-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE3254CT-ND	.52	14.94	24.90	PCE3254TR-ND	2,000	89.64/M	EEV-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE3255CT-ND	.62	17.82	29.70	PCE3255TR-ND	1,000	112.86	EEV-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE3256CT-ND	.56	16.80	29.40	PCE3256TR-ND	1,000	119.00	EEV-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE3257CT-ND	.92	27.48	48.09	PCE3257TR-ND	1,000	195.00	EEV-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE3258CT-ND	.93	29.68	53.42	PCE3258TR-ND	500	140.98	EEV-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE3259CT-ND	1.09	34.76	62.57	PCE3259TR-ND	500	165.11	EEV-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE3260CT-ND	1.09	34.76	62.57	PCE3260TR-ND	500	165.11	EEV-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE3261CT-ND	1.07	36.25	65.83	PCE3261TR-ND	500	171.72	EEV-FC1H221P

FK Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

DigiReel® RoHS COMPLIANT

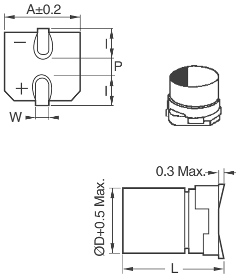

Features: • Low impedance (40 ~ 60% lower than FC series) Small Size (30 ~ 50% smaller than FC series) • Long Life: 2000 ~ 5000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel packaging for automatic placement **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3 (μA) whichever is greater after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: Reflow (I.R or I.R + Heated Air. VPS is not allowed.)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥230°C)	Duration (Temp. ≥255°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	60 seconds	5 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	60 seconds	5 seconds	1

Can Size - mm (Size Code)	Voltage	Peak Temperature	Duration (Temp. ≥240°C)	Duration (Temp. ≥217°C)	Reflow Frequency
ø12.5 ~ ø18 (H, J, K)	6.3V ~ 35V	245°C	30 seconds	90 seconds	2‡
	50V ~ 63V	245°C	5 seconds	30 seconds	2‡
	80V ~ 100V	245°C	5 seconds	30 seconds	1

‡ Capacitor must return to room temperature before the second reflow.

Following Specified Values:

Impedance 120Hz	Rated Working Voltage								
	6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C / 20°C	2	2	2	2	2	2	2	2	2
-40°C / 20°C	3	3	3	3	3	3	3	3	3
-55°C / 20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions — mm					
	øD	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.7	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leakage Current (μA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.26	1.35	3.0	B	90	PCE4373CT-ND	.60	17.04	28.40	PCE4373TR-ND	2,000	100.00/M	EEE-FK0J220AR
	47	0.26	1.35	3.0	B	90	PCE4374CT-ND	.60	17.04	28.40	PCE4374TR-ND	2,000	100.00/M	EEE-FKJ470UAR
	47	0.26	0.7	3.0	C	160	PCE4375CT-ND	.71	20.28	33.80	PCE4375TR-ND	1,000	126.00	EEE-FK0J470AR
	100	0.26	0.7	6.3	C	160	PCE4376CT-ND	.71	20.28	33.80	PCE4376TR-ND	1,000	126.00	EEE-FKJ101UAR

(Continued)

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Impedance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
6.3	100	0.26	0.36	6.3	D	240	PCE4377CT-ND	.64	19.10	33.43	PCE4377TR-ND	1,000	133.00	EEE-FK0J101AP
	220	0.26	0.36	13.8	D	240	PCE4378CT-ND	.64	19.10	33.43	PCE4378TR-ND	1,000	133.00	EEE-FK0J221AP
	330	0.26	0.34	20.7	D8	280	PCE4379CT-ND	.87	26.04	45.57	PCE4379TR-ND	900	172.80	EEE-FKJ331XAP
	330	0.26	0.26	20.7	E	300	PCE4380CT-ND	.81	26.04	46.87	PCE4380TR-ND	1,000	217.00	EEE-FK0J331AP
	470	0.26	0.16	29.6	F	600	PCE4381CT-ND	1.06	33.78	60.80	PCE4381TR-ND	500	157.50	EEE-FK0J471AP
	1000	0.26	0.16	63.0	F	600	PCE4382CT-ND	1.06	33.78	60.80	PCE4382TR-ND	500	157.50	EEE-FK0J102AP
	1500	0.26	0.08	94.5	G	850	PCE4383CT-ND	1.11	37.56	68.21	PCE4383TR-ND	500	174.50	EEE-FK0J152AP
	3300	0.30	0.06	207.9	H13	1100	PCE4837CT-ND	1.98	71.41	130.91	PCE4837TR-ND	200	164.40	EEE-FK0J332AQ
	6800	0.36	0.035	428.4	J16	1800	PCE4838CT-ND	2.66	102.25	—	PCE4838TR-ND	125	156.88	EEE-FK0J682AM
10	22	0.19	1.35	3.0	B	90	PCE4384CT-ND	.60	17.04	28.40	PCE4384TR-ND	2,000	100.00/M	EEE-FK1A220AR
	33	0.19	1.35	3.3	B	90	PCE4385CT-ND	.60	17.04	28.40	PCE4385TR-ND	2,000	100.00/M	EEE-FKA330UAR
	33	0.19	0.7	3.3	C	160	PCE4386CT-ND	.71	20.28	33.80	PCE4386TR-ND	1,000	126.00	EEE-FK1A330AR
	150	0.19	0.36	15.0	D	240	PCE4387CT-ND	.64	19.10	33.43	PCE4387TR-ND	1,000	133.00	EEE-FK1A151AP
	220	0.19	0.34	22.0	D8	280	PCE4388CT-ND	.87	26.04	45.57	PCE4388TR-ND	900	172.80	EEE-FKA221XAP
	220	0.19	0.26	22.0	E	300	PCE4389CT-ND	.81	26.04	46.87	PCE4389TR-ND	1,000	217.00	EEE-FK1A221AP
	330	0.19	0.16	33.0	F	600	PCE4390CT-ND	1.06	33.78	60.80	PCE4390TR-ND	500	157.50	EEE-FK1A331AP
	470	0.19	0.16	47.0	F	600	PCE4391CT-ND	1.06	33.78	60.80	PCE4391TR-ND	500	157.50	EEE-FK1A471AP
	680	0.19	0.16	68.0	F	600	PCE4392CT-ND	1.06	33.78	60.80	PCE4392TR-ND	500	157.50	EEE-FK1A681AP
	1000	0.19	0.08	100.0	G	850	PCE4393CT-ND	1.11	37.56	68.21	PCE4393TR-ND	500	174.50	EEE-FK1A102AP
	2200	0.21	0.06	220.0	H13	1100	PCE4839CT-ND	1.98	71.41	130.91	PCE4839TR-ND	200	164.40	EEE-FK1A222AQ
	4700	0.25	0.035	470.0	J16	1800	PCE4840CT-ND	2.66	102.25	—	PCE4840TR-ND	125	156.88	EEE-FK1A472AM
	6800	0.29	0.033	680.0	K16	2060	PCE4841CT-ND	3.14	120.71	—	PCE4841TR-ND	125	185.25	EEE-FK1A682AM
16	10	0.16	1.35	3.0	B	90	PCE4394CT-ND	.60	17.04	28.40	PCE4394TR-ND	2,000	100.00/M	EEE-FK1C100AR
	22	0.16	1.35	3.5	B	90	PCE4395CT-ND	.60	17.04	28.40	PCE4395TR-ND	2,000	100.00/M	EEE-FKC220UAR
	22	0.16	0.7	3.5	C	160	PCE4396CT-ND	.71	20.28	33.80	PCE4396TR-ND	1,000	126.00	EEE-FK1C220AR
	47	0.16	0.7	7.5	C	160	PCE4397CT-ND	.71	20.28	33.80	PCE4397TR-ND	1,000	126.00	EEE-FKC470UAR
	47	0.16	0.36	7.5	D	240	PCE4398CT-ND	.64	19.10	33.43	PCE4398TR-ND	1,000	133.00	EEE-FK1C470AP
	68	0.16	0.36	10.8	D	240	PCE4399CT-ND	.64	19.10	33.43	PCE4399TR-ND	1,000	133.00	EEE-FK1C680AP
	100	0.16	0.36	16.0	D	240	PCE4400CT-ND	.64	19.10	33.43	PCE4400TR-ND	1,000	133.00	EEE-FK1C101AP
	150	0.16	0.34	24.0	D8	280	PCE4401CT-ND	.87	26.04	45.57	PCE4401TR-ND	900	172.80	EEE-FKC151XAP
	220	0.16	0.34	35.2	D8	280	PCE4402CT-ND	.87	26.04	45.57	PCE4402TR-ND	900	172.80	EEE-FKC221XAP
	220	0.16	0.26	35.2	E	300	PCE4403CT-ND	.81	26.04	46.87	PCE4403TR-ND	1,000	217.00	EEE-FK1C221AP
	330	0.16	0.16	52.8	F	600	PCE4404CT-ND	1.06	33.78	60.80	PCE4404TR-ND	500	157.50	EEE-FK1C331AP
	470	0.16	0.16	75.2	F	600	PCE4405CT-ND	1.06	33.78	60.80	PCE4405TR-ND	500	157.50	EEE-FK1C471AP
	680	0.16	0.08	108.8	G	850	PCE4406CT-ND	1.11	37.56	68.21	PCE4406TR-ND	500	174.50	EEE-FK1C681AP
	1500	0.16	0.06	240.0	H13	1100	PCE4842CT-ND	1.98	71.41	130.91	PCE4842TR-ND	200	164.40	EEE-FK1C152AQ
	3300	0.20	0.035	528.0	J16	1800	PCE4843CT-ND	2.66	102.25	—	PCE4843TR-ND	125	156.88	EEE-FK1C332AM
	4700	0.22	0.033	752.0	K16	2060	PCE4844CT-ND	3.14	120.71	—	PCE4844TR-ND	125	185.25	EEE-FK1C472AM
25	10	0.14	1.35	3.0	B	90	PCE4407CT-ND	.60	17.04	28.40	PCE4407TR-ND	2,000	100.00/M	EEE-FK1E100AR
	22	0.14	0.7	5.5	C	160	PCE4408CT-ND	.71	20.28	33.80	PCE4408TR-ND	1,000	126.00	EEE-FK1E220AR
	33	0.14	0.7	8.2	C	160	PCE4409CT-ND	.71	20.28	33.80	PCE4409TR-ND	1,000	126.00	EEE-FKE330UAR
	33	0.14	0.36	8.2	D	240	PCE4410CT-ND	.64	19.10	33.43	PCE4410TR-ND	1,000	133.00	EEE-FK1E330AP
	47	0.14	0.36	11.7	D	240	PCE4411CT-ND	.64	19.10	33.43	PCE4411TR-ND	1,000	133.00	EEE-FK1E470AP
	68	0.14	0.36	17.0	D	240	PCE4412CT-ND	.64	19.10	33.43	PCE4412TR-ND	1,000	133.00	EEE-FK1E680AP
	100	0.14	0.34	25.0	D8	280	PCE4413CT-ND	.87	26.04	45.57	PCE4413TR-ND	900	172.80	EEE-FKE101XAP
	100	0.14	0.26	25.0	E	300	PCE4414CT-ND	.81	26.04	46.87	PCE4414TR-ND	1,000	217.00	EEE-FK1E101AP
	150	0.14	0.16	37.5	F	600	PCE4415CT-ND	1.06	33.78	60.80	PCE4415TR-ND	500	157.50	EEE-FK1E151AP
	220	0.14	0.16	55.0	F	600	PCE4416CT-ND	1.06	33.78	60.80	PCE4416TR-ND	500	157.50	EEE-FK1E221AP
	330	0.14	0.16	82.5	F	600	PCE4417CT-ND	1.06	33.78	60.80	PCE4417TR-ND	500	157.50	EEE-FK1E331AP
	470	0.14	0.08	117.5	G	850	PCE4418CT-ND	1.11	37.56	68.21	PCE4418TR-ND	500	174.50	EEE-FK1E471AP
	1000	0.14	0.06	250.0	H13	1100	PCE4845CT-ND	1.98	71.41	130.91	PCE4845TR-ND	200	164.40	EEE-FK1E102AQ
	2200	0.16	0.035	550.0	J16	1800	PCE4846CT-ND	2.66	102.25	—	PCE4846TR-ND	125	156.88	EEE-FK1E222AM
	3300	0.18	0.033	825.0	K16	2060	PCE4847CT-ND	3.14	120.71	—	PCE4847TR-ND	125	185.25	EEE-FK1E332AM
35	4.7	0.12	1.35	3.0	B	90	PCE4419CT-ND	.60	17.04	28.40	PCE4419TR-ND	2,000	100.00/M	EEE-FK1V4R7AR
	10	0.12	1.35	3.5	B	90	PCE4420CT-ND	.60	17.04	28.40	PCE4420TR-ND	2,000	100.00/M	EEE-FKV100UAR
	10	0.12	0.7	3.5	C	160	PCE4421CT-ND	.71	20.28	33.80	PCE4421TR-ND	1,000	126.00	EEE-FK1V100AR
	22	0.12	0.7	7.7	C	160	PCE4422CT-ND	.71	20.28	33.80	PCE4422TR-ND	1,000	126.00	EEE-FK1V220AR
	33	0.12	0.36	11.5	D	240	PCE4423CT-ND	.64	19.10	33.43	PCE4423TR-ND	1,000	133.00	EEE-FK1V330AP
	47	0.12	0.36	16.4	D	240	PCE4424CT-ND	.64	19.10	33.43	PCE4424TR-ND	1,000	133.00	EEE-FK1V470AP
	68	0.12	0.34	23.8	D8	280	PCE4425CT-ND	.87	26.04	45.57	PCE4425TR-ND	900	172.80	EEE-FKV680XAP
	100	0.12	0.16	35.0	F	600	PCE4426CT-ND	1.06	33.78	60.80	PCE4426TR-ND	500	157.50	EEE-FK1V101AP
	150	0.12	0.16	52.5	F	600	PCE4427CT-ND	1.06	33.78	60.80	PCE4427TR-ND	500	157.50	EEE-FK1V151AP
	220	0.12	0.16	77.0	F	600	PCE4428CT-ND	1.06	33.78	60.80	PCE4428TR-ND	500	157.50	EEE-FK1V221AP
	330	0.12	0.08	115.5	G	850	PCE4429CT-ND	1.11	37.56	68.21	PCE4429TR-ND	500	174.50	EEE-FK1V331AP
	470	0.12	0.06	164.5	H13	1100	PCE4862CT-ND	1.98	71.41	130.91	PCE4862TR-ND	200	164.40	EEE-FK1V471AQ
	680	0.12	0.06	238.0	H13	1100	PCE4863CT-ND	1.98	71.41	130.91	PCE4863TR-ND	200	162.60	EEE-FK1V681AQ
	1500	0.12	0.035	525.0	J16	1800	PCE4861CT-ND	2.66	102.25	—	PCE4861TR-ND	125	156.88	EEE-FK1V152AM
50	330	0.12	0.12	165.0	H13	900	PCE4849CT-ND	1.98	71.41	130.91	PCE4849TR-ND	200	164.40	EEE-FK1H331AQ
	470	0.12	0.073	235.0	J16	1610	PCE4850CT-ND	2.66	102.25	—	PCE4850TR-ND	125	156.88	EEE-FK1H471AM
	680	0.12	0.073	340.0	J16	1610	PCE4851CT-ND	2.66	102.25	—	PCE4851TR-ND	125	156.88	EEE-FK1H681AM
	1000	0.12	0.073	500.0	J16	1610	PCE4848CT-ND	2.66	102.25	—	PCE4848TR-ND	125	156.88	EEE-FK1H102AM
63	150	0.10	0.16	94.5	H13	800	PCE4852CT-ND	2.08	74.99	137.48	PCE4852TR-ND	200	172.60	EEE-FK1J151AQ
	220	0.10	0.16	138.6	H13	800	PCE4853CT-ND	2.08	74.99	137.48	PCE4853TR-ND	200	170.80	EEE-FK1J221AQ
	470	0.10	0.082	296.1	J16	1410	PCE4854CT-ND	2.79	107.35	—	PCE4854TR-ND	125	164.75	EEE-FK1J471AM
	680	0.10	0.08	428.4	K16	1690	PCE4855CT-ND	3.30	126.68	—	PCE4855TR-ND	125	194.38	EEE-FK1J681AM
80	68	0.08	0.32	54.4	H13	500	PCE4860CT-ND	2.08	74.99	137.48	PCE4860TR-ND	200	172.60	EEE-FK1K680AQ
	100	0.08	0.32	80.0	H13	500	PCE4856CT-ND	2.08	74.99	137.48	PCE4856TR-ND	200	172.60	EEE-FK1K101AQ
	150	0.08	0.32	120.0	H13	500	PCE4857CT-ND	2.08	74.99	137.48	PCE4857TR-ND	200	172.60	EEE-FK1K151AQ
	330	0.08	0.17	264.0	J16	793	PCE4858CT-ND	2.79	107.35	—	PCE4858TR-ND	125	164.75	EEE-FK1K331AM
	470	0.08	0.153	376.0	K16	917	PCE4859CT-ND	3.30	126.68	—	PCE4859TR-ND	125	194.38	EEE-FK1K471AM
100	47	0.07	0.32	47.0	H13	500	PCE4868CT-ND	2.08	74.99	137.48	PCE4868TR-ND	200	172.60	EEE-FK2A470AQ
	68	0.07	0.32	68.0	H13	500	PCE4869CT-ND	2.08	74.99	137.48	PCE4869TR-ND	200	172.60	EEE-FK2A680AQ
	100	0.07	0.17	100.0	J16	793	PCE4864CT-ND	2.79	107.35	—	PCE4864TR-ND	125	164.75	EEE-FK2A101AM
	150	0.07	0.17	150.0	J16	793	PCE4865CT-ND	2.79	107.35	—	PCE4865TR-ND	125	164.75	EEE-FK2A151AM
	220	0.07	0.153	220.0	K16	917	PCE4866CT-ND	3.30	126.68	—	PCE4866TR-ND	125	194.38	EEE-FK2A221AM
	330	0.07	0.153	330.0	K16	917	PCE4867CT-ND	3.30	126.68	—	PCE4867TR-ND	125	194.38	EEE-FK2A331AM

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

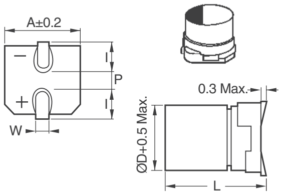

Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)
Soldering: • Reflow: 3 - 6mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds; 12.5 - 18mm case for 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage								
	6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions (mm)					
	øD	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.7	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)														
6.3	22	0.26	1.35	3.0	B	90	PCE3765CT-ND	.54	15.45	25.75	PCE3765TR-ND	2,000	90.00/M	EEE-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3770CT-ND	.54	15.45	25.75	PCE3770TR-ND	2,000	90.00/M	EEE-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3769CT-ND	.64	18.39	30.65	PCE3769TR-ND	1,000	113.24	EEE-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3762CT-ND	.64	18.39	30.65	PCE3762TR-ND	1,000	113.24	EEE-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3761CT-ND	.58	17.38	30.41	PCE3761TR-ND	1,000	119.17	EEE-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3766CT-ND	.58	17.38	30.41	PCE3766TR-ND	1,000	119.17	EEE-FK0J221P
	330	0.26	0.34	20.8	D8	280	PCE3768CT-ND	.79	23.69	41.45	PCE3768TR-ND	900	154.71	EEE-FK0J331XP
	330	0.26	0.26	20.8	E	300	PCE3767CT-ND	.95	28.42	49.73	PCE3767TR-ND	1,000	195.00	EEE-FK0J331P
	470	0.26	0.16	29.6	F	600	PCE3771CT-ND	.96	30.68	55.22	PCE3771TR-ND	500	141.27	EEE-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE4308CT-ND	1.07	36.10	65.55	PCE4308TR-ND	500	164.50	EEE-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3763CT-ND	.96	30.68	55.22	PCE3763TR-ND	500	141.27	EEE-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE4309CT-ND	1.07	36.10	65.55	PCE4309TR-ND	500	164.50	EEE-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3764CT-ND	1.12	35.96	64.73	PCE3764TR-ND	500	165.49	EEE-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE4310CT-ND	1.25	42.18	76.59	PCE4310TR-ND	500	192.50	EEE-FK0J152GP
	3300	0.30	0.060	207.9	H13	1100	PCE3454CT-ND	1.67	59.96	109.92	PCE3454TR-ND	200	145.31	EEV-FK0J332Q
	6800	0.36	0.035	428.4	J16	1800	PCE3455CT-ND	2.23	85.85	—	PCE3455TR-ND	125	138.75	EEV-FK0J682M
10	22	0.19	1.35	3.0	B	90	PCE3774CT-ND	.54	15.45	25.75	PCE3774TR-ND	2,000	90.00/M	EEE-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3778CT-ND	.54	15.45	25.75	PCE3778TR-ND	2,000	90.00/M	EEE-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3777CT-ND	.64	18.39	30.65	PCE3777TR-ND	1,000	113.24	EEE-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3773CT-ND	.58	17.38	30.41	PCE3773TR-ND	1,000	119.17	EEE-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3776CT-ND	.79	23.69	41.45	PCE3776TR-ND	900	154.71	EEE-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3775CT-ND	.95	28.42	49.73	PCE3775TR-ND	1,000	195.00	EEE-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3779CT-ND	.96	30.68	55.22	PCE3779TR-ND	500	141.27	EEE-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE4311CT-ND	1.07	36.10	65.55	PCE4311TR-ND	500	164.50	EEE-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3780CT-ND	.96	30.68	55.22	PCE3780TR-ND	500	141.27	EEE-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE4312CT-ND	1.66	59.87	109.76	PCE4312TR-ND	500	164.50	EEE-FK1A471GP
	680	0.19	0.16	68.0	F	600	PCE3781CT-ND	.96	30.68	55.22	PCE3781TR-ND	500	141.27	EEE-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3772CT-ND	1.12	35.96	64.73	PCE3772TR-ND	500	165.49	EEE-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE4313CT-ND	1.25	42.18	76.59	PCE4313TR-ND	500	192.50	EEE-FK1A102GP
	2200	0.21	0.060	220.0	H13	1100	PCE3456CT-ND	1.67	59.96	109.92	PCE3456TR-ND	200	145.31	EEV-FK1A222Q
	4700	0.25	0.035	470.0	J16	1800	PCE3457CT-ND	2.23	85.85	—	PCE3457TR-ND	125	138.75	EEV-FK1A472M
	6800	0.29	0.033	680.0	K16	2060	PCE3458CT-ND	2.64	101.37	—	PCE3458TR-ND	125	163.75	EEV-FK1A682M
16	10	0.16	1.35	3.0	B	90	PCE3782CT-ND	.54	15.45	25.75	PCE3782TR-ND	2,000	90.00/M	EEE-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3786CT-ND	.54	15.45	25.75	PCE3786TR-ND	2,000	90.00/M	EEE-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3785CT-ND	.64	18.39	30.65	PCE3785TR-ND	1,000	113.24	EEE-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3791CT-ND	.64	18.39	30.65	PCE3791TR-ND	1,000	113.24	EEE-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3790CT-ND	.58	17.38	30.41	PCE3790TR-ND	1,000	119.17	EEE-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3793CT-ND	.58	17.38	30.41	PCE3793TR-ND	1,000	119.17	EEE-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3783CT-ND	.58	17.38	30.41	PCE3783TR-ND	1,000	119.17	EEE-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3784CT-ND	.79	23.69	41.45	PCE3784TR-ND	900	154.71	EEE-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3788CT-ND	.79	23.69	41.45	PCE3778TR-ND	2,000	90.00/M	EEE-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3787CT-ND	.95	28.42	49.73	PCE3787TR-ND	1,000	195.00	EEE-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3789CT-ND	.96	30.68	55.22	PCE3789TR-ND	500	141.27	EEE-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE4314CT-ND	1.07	36.10	65.55	PCE4314TR-ND	500	164.50	EEE-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3792CT-ND	.96	30.68	55.22	PCE3792TR-ND	500	141.27	EEE-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE4315CT-ND	1.07	36.10	65.55	PCE4315TR-ND	500	164.50	EEE-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3794CT-ND	1.12	35.96	64.73	PCE3794TR-ND	500	165.49	EEE-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE4316CT-ND	1.25	42.18	76.59	PCE4316TR-ND	500	192.50	EEE-FK1C681GP
	1500	0.16	0.060	240.0	H13	1100	PCE3459CT-ND	1.67	59.96	109.92	PCE3459TR-ND	200	145.31	EEV-FK1C152Q
	3300	0.20	0.035	528.0	J16	1800	PCE3460CT-ND	2.23	85.85	—	PCE3460TR-ND	125	138.75	EEV-FK1C332M
	4700	0.22	0.033	752.0	K16	2060	PCE3461CT-ND	2.64	101.37	—	PCE3461TR-ND	125	163.75	EEV-FK1C472M
25	10	0.14	1.35	3.0	B	90	PCE3795CT-ND	.54	15.45	25.75	PCE3795TR-ND	2,000	90.00/M	EEE-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3799CT-ND	.64	18.39	30.65	PCE3799TR-ND	1,000	113.24	EEE-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3802CT-ND	.64	18.39	30.65	PCE3802TR-ND	1,000	113.24	EEE-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3801CT-ND	.58	17.38	30.41	PCE3801TR-ND	1,000	119.17	EEE-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3804CT-ND	.58	17.38	30.41	PCE3804TR-ND	1,000	119.17	EEE-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3806CT-ND	.58	17.38	30.41	PCE3806TR-ND	1,000	119.17	EEE-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3797CT-ND	.79	23.69	41.45	PCE3797TR-ND	900	154.71	EEE-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3796CT-ND	.95	28.42	49.73	PCE3796TR-ND	1,000	195.00	EEE-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3798CT-ND	.96	30.68	55.22	PCE3798TR-ND	500	141.27	EEE-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3800CT-ND	.96	30.68	55.22	PCE3800TR-ND	500	141.27	EEE-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE4317CT-ND	1.07	36.10	65.55	PCE4317TR-ND	500	164.50	EEE-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3803CT-ND	.96	30.68	55.22	PCE3803TR-ND	500	141.27	EEE-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE4318CT-ND	1.07	36.10	65.55	PCE4318TR-ND	500	164.50	EEE-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3805CT-ND	1.12	35.96	64.73	PCE3805TR-ND	500	165.49	EEE-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE4319CT-ND	1.25	42.18	76.59	PCE4319TR-ND	500	192.50	EEE-FK1E471GP
	1000	0.14	0.060	250.0	H13	1100	PCE3462CT-ND	1.67	59.96	109.92	PCE3462TR-ND	200	145.31	EEV-FK1E102Q
	2200	0.16	0.035	550.0	J16	1800	PCE3463CT-ND	2.23	85.85	—	PCE3463TR-ND	125	138.75	EEV-FK1E222M
	3300	0.18	0.033	825.0	K16	2060	PCE3506CT-ND	2.64	101.37	—	PCE3506TR-ND	125	163.75	EEV-FK1E332M

(Continued)

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Impedance (Ω)	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
35	4.7	0.12	1.35	3.0	B	90	PCE3843CT-ND	.54	15.45	25.75	PCE3843TR-ND	2,000	90.00/M	EEE-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3834CT-ND	.54	15.45	25.75	PCE3834TR-ND	2,000	90.00/M	EEE-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3833CT-ND	.64	18.39	30.65	PCE3833TR-ND	1,000	113.24	EEE-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3838CT-ND	.64	18.39	30.65	PCE3838TR-ND	1,000	113.24	EEE-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3840CT-ND	.58	17.38	30.41	PCE3840TR-ND	1,000	119.17	EEE-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3842CT-ND	.58	17.38	30.41	PCE3842TR-ND	1,000	119.17	EEE-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3844CT-ND	.79	23.69	41.45	PCE3844TR-ND	900	154.71	EEE-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3836CT-ND	.79	23.69	41.45	PCE3836TR-ND	900	154.71	EEE-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3835CT-ND	.96	30.68	55.22	PCE3835TR-ND	500	141.27	EEE-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE4320CT-ND	1.07	36.10	65.55	PCE4320TR-ND	500	164.50	EEE-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3837CT-ND	.96	30.68	55.22	PCE3837TR-ND	500	141.27	EEE-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3839CT-ND	.96	30.68	55.22	PCE3839TR-ND	500	141.27	EEE-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE4321CT-ND	1.07	36.10	65.55	PCE4321TR-ND	500	164.50	EEE-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3841CT-ND	1.12	35.96	64.73	PCE3841TR-ND	500	165.49	EEE-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE4322CT-ND	1.25	42.18	76.59	PCE4322TR-ND	500	192.50	EEE-FK1V331GP
	470	0.12	0.060	164.5	H13	1100	PCE3464CT-ND	1.67	59.96	109.92	PCE3464TR-ND	200	145.31	EEV-FK1V471Q
	680	0.12	0.060	238.0	H13	1100	PCE3465CT-ND	1.67	59.96	109.92	PCE3465TR-ND	200	145.31	EEV-FK1V681Q
	1500	0.12	0.035	525.0	J16	1800	PCE3466CT-ND	2.23	85.85	—	PCE3466TR-ND	125	138.75	EEV-FK1V152M
50	4.7	0.10	2.9	3.0	B	60	PCE3817CT-ND	.54	15.45	25.75	PCE3817TR-ND	2,000	90.00/M	EEE-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3808CT-ND	.64	18.39	30.65	PCE3808TR-ND	1,000	113.24	EEE-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3807CT-ND	.58	17.38	30.41	PCE3807TR-ND	1,000	119.17	EEE-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3811CT-ND	.58	17.38	30.41	PCE3811TR-ND	1,000	119.17	EEE-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3814CT-ND	.79	23.69	41.45	PCE3814TR-ND	900	154.71	EEE-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3813CT-ND	.95	28.46	49.81	PCE3813TR-ND	1,000	195.00	EEE-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3816CT-ND	.79	23.69	41.45	PCE3816TR-ND	900	154.71	EEE-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3815CT-ND	.95	28.46	49.81	PCE3815TR-ND	1,000	195.00	EEE-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3809CT-ND	.96	30.68	55.22	PCE3809TR-ND	500	141.27	EEE-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE4323CT-ND	1.07	36.10	65.55	PCE4323TR-ND	500	164.50	EEE-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3810CT-ND	1.12	35.96	64.73	PCE3810TR-ND	500	165.49	EEE-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3812CT-ND	1.12	35.96	64.73	PCE3812TR-ND	500	165.49	EEE-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE4324CT-ND	1.25	42.18	76.59	PCE4324TR-ND	500	192.50	EEE-FK1H221GP
	330	0.10	0.12	165.0	H13	900	PCE3475CT-ND	1.67	59.96	109.92	PCE3475TR-ND	200	145.31	EEV-FK1H331Q
	680	0.10	0.073	340.0	J16	1610	PCE3523CT-ND	2.23	85.85	—	PCE3523TR-ND	125	138.75	EEV-FK1H681M
	1000	0.10	0.073	500.0	J16	1610	PCE3477CT-ND	2.23	85.85	—	PCE3477TR-ND	125	138.75	EEV-FK1H102M
63	4.7	0.08	3.0	3.0	C	50	PCE3824CT-ND	.68	19.35	32.25	PCE3824TR-ND	1,000	118.75	EEE-FK1J4R7R
	10	0.08	1.5	6.3	D	80	PCE3818CT-ND	.61	18.24	31.92	PCE3818TR-ND	1,000	125.29	EEE-FK1J100P
	22	0.08	1.2	13.9	D8	120	PCE3821CT-ND	.83	24.86	43.51	PCE3821TR-ND	900	162.65	EEE-FK1J220XP
	22	0.08	1.2	13.9	E	120	PCE3820CT-ND	1.00	29.86	52.25	PCE3820TR-ND	1,000	205.00	EEE-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3822CT-ND	1.01	32.22	58.00	PCE3822TR-ND	500	148.39	EEE-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3823CT-ND	1.01	32.22	58.00	PCE3823TR-ND	500	148.39	EEE-FK1J470P
	68	0.08	0.65	42.8	F	250	PCE4307CT-ND	.96	30.68	55.22	PCE4307TR-ND	500	141.27	EEE-FK1J680UP
	68	0.08	0.65	42.8	G	250	PCE3825CT-ND	1.06	35.89	65.17	PCE3825TR-ND	500	164.70	EEE-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3819CT-ND	1.06	35.89	65.17	PCE3819TR-ND	500	164.70	EEE-FK1J101P
	150	0.08	0.16	94.5	H13	800	PCE3526CT-ND	1.75	62.96	115.43	PCE3526TR-ND	200	152.55	EEV-FK1J151Q
	220	0.08	0.16	138.6	H13	800	PCE3484CT-ND	1.75	62.96	115.43	PCE3484TR-ND	200	152.55	EEV-FK1J221Q
	470	0.08	0.082	296.1	J16	1410	PCE3485CT-ND	2.35	90.15	—	PCE3485TR-ND	125	145.63	EEV-FK1J471M
	680	0.08	0.080	428.4	K16	1690	PCE3486CT-ND	2.77	106.38	—	PCE3486TR-ND	125	171.88	EEV-FK1J681M
80	3.3	0.08	5.0	3.0	C	25	PCE3830CT-ND	.68	19.35	32.25	PCE3830TR-ND	1,000	118.75	EEE-FK1K3R3R
	4.7	0.08	3.0	3.8	D	40	PCE3832CT-ND	.61	18.24	31.92	PCE3832TR-ND	1,000	125.29	EEE-FK1K4R7P
	10	0.08	2.4	8.0	D8	60	PCE3827CT-ND	.83	24.86	43.51	PCE3827TR-ND	900	162.65	EEE-FK1K100XP
	10	0.08	2.4	8.0	E	60	PCE3826CT-ND	1.00	29.86	52.25	PCE3826TR-ND	1,000	205.00	EEE-FK1K100P
	22	0.08	1.3	17.6	F	130	PCE3828CT-ND	1.01	32.22	58.00	PCE3828TR-ND	500	148.39	EEE-FK1K220P
	33	0.08	1.3	26.4	F	130	PCE3829CT-ND	1.01	32.22	58.00	PCE3829TR-ND	500	148.39	EEE-FK1K330P
	47	0.08	0.7	37.6	G	200	PCE3831CT-ND	1.06	35.89	65.17	PCE3831TR-ND	500	164.70	EEE-FK1K470P
	68	0.08	0.32	54.4	H13	500	PCE3528CT-ND	1.75	62.96	115.43	PCE3528TR-ND	200	152.55	EEV-FK1K680Q
	100	0.08	0.32	80.0	H13	500	PCE3493CT-ND	1.75	62.96	115.43	PCE3493TR-ND	200	152.55	EEV-FK1K101Q
	150	0.08	0.32	120.0	H13	500	PCE3494CT-ND	1.75	62.96	115.43	PCE3494TR-ND	200	152.55	EEV-FK1K151Q
	330	0.08	0.17	264.0	J16	793	PCE3495CT-ND	2.35	90.15	—	PCE3495TR-ND	125	145.63	EEV-FK1K331M
	470	0.08	0.153	376.0	K16	917	PCE3496CT-ND	2.77	106.38	—	PCE3496TR-ND	125	171.88	EEV-FK1K471M
100	22	0.07	1.3	22.0	F	130	PCE3845CT-ND	.99	31.80	57.24	PCE3845TR-ND	500	146.30	EEE-FK2A220P
	33	0.07	0.7	33.0	G	200	PCE3846CT-ND	1.04	35.15	63.83	PCE3846TR-ND	500	170.34	EEE-FK2A330P
	47	0.07	0.32	47.0	H13	500	PCE3497CT-ND	1.75	62.96	115.43	PCE3497TR-ND	200	152.55	EEV-FK2A470Q
	68	0.07	0.32	68.0	H13	500	PCE3498CT-ND	1.75	62.96	115.43	PCE3498TR-ND	200	152.55	EEV-FK2A680Q
	100	0.07	0.17	100.0	J16	793	PCE3504CT-ND	2.35	90.15	—	PCE3504TR-ND	125	147.50	EEV-FK2A101M
	150	0.07	0.17	150.0	J16	793	PCE3499CT-ND	2.35	90.15	—	PCE3499TR-ND	125	145.63	EEV-FK2A151M
	220	0.07	0.153	220.0	K16	917	PCE3500CT-ND	2.77	106.38	—	PCE3500TR-ND	125	171.88	EEV-FK2A221M
	330	0.07	0.153	330.0	K16	917	PCE3505CT-ND	2.77	106.38	—	PCE3505TR-ND	125	171.88	EEV-FK2A331M

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

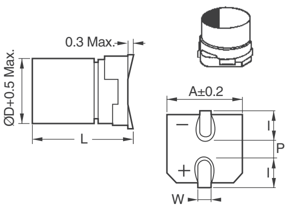

Features: • Low Impedance (40% ~ 60% lower than FC) • Small Size (30% ~ 50% smaller than FC) • Long Life: 2000H ~ 5000H @ 105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage								
	6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions – mm					
	øD	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65 ±0.1	1.0
C	5	5.8	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)														
6.3	22	0.26	1.35	3.0	B	90	PCE3377CT-ND	.60	17.07	28.45	PCE3377TR-ND	2,000	102.00/M	EEV-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3378CT-ND	.60	17.07	28.45	PCE3378TR-ND	2,000	102.00/M	EEV-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3379CT-ND	.71	20.34	33.90	PCE3379TR-ND	1,000	128.82	EEV-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3380CT-ND	.71	20.34	33.90	PCE3380TR-ND	1,000	128.82	EEV-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3381CT-ND	.64	19.20	33.60	PCE3381TR-ND	1,000	136.00	EEV-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3382CT-ND	.64	19.20	33.60	PCE3382TR-ND	1,000	136.00	EEV-FK0J221P
	330	0.26	0.26	20.8	E	300	PCE3383CT-ND	.82	26.16	47.09	PCE3383TR-ND	1,000	209.00	EEV-FK0J331P
	330	0.26	0.34	20.8	D8	280	PCE3507CT-ND	.87	26.16	45.78	PCE3507TR-ND	900	176.58	EEV-FK0J331XP
	470	0.26	0.16	29.6	F	600	PCE3384CT-ND	1.06	33.92	61.06	PCE3384TR-ND	500	161.12	EEV-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE3708CT-ND	1.05	35.34	64.17	PCE3708TR-ND	500	167.40	EEV-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3385CT-ND	1.06	33.92	61.06	PCE3385TR-ND	500	161.12	EEV-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE3706CT-ND	1.05	35.34	64.17	PCE3706TR-ND	500	167.40	EEV-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3386CT-ND	1.12	37.75	68.55	PCE3386TR-ND	500	178.83	EEV-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE3707CT-ND	1.23	41.42	75.21	PCE3707TR-ND	500	196.20	EEV-FK0J152GP
10	22	0.19	1.35	3.0	B	90	PCE3387CT-ND	.60	17.07	28.45	PCE3387TR-ND	2,000	102.00/M	EEV-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3388CT-ND	.60	17.07	28.45	PCE3388TR-ND	2,000	102.00/M	EEV-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3389CT-ND	.71	20.34	33.90	PCE3389TR-ND	1,000	128.82	EEV-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3508CT-ND	.64	19.20	33.60	PCE3508TR-ND	1,000	136.00	EEV-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3509CT-ND	.87	26.16	45.78	PCE3509TR-ND	900	176.58	EEV-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3390CT-ND	.82	26.16	47.09	PCE3390TR-ND	1,000	209.00	EEV-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3391CT-ND	1.06	33.92	61.06	PCE3391TR-ND	500	161.12	EEV-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE3710CT-ND	1.05	35.34	64.17	PCE3710TR-ND	500	167.40	EEV-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3392CT-ND	1.06	33.92	61.06	PCE3392TR-ND	500	161.12	EEV-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE3711CT-ND	1.05	35.34	64.17	PCE3711TR-ND	500	167.40	EEV-FK1A471GP
	680	0.49	0.16	68.0	G	600	PCE3510CT-ND	1.06	33.92	61.06	PCE3510TR-ND	500	161.12	EEV-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3393CT-ND	1.12	37.75	68.55	PCE3393TR-ND	500	178.83	EEV-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE3709CT-ND	1.23	41.42	75.21	PCE3709TR-ND	500	196.20	EEV-FK1A102GP
16	10	0.16	1.35	3.0	B	90	PCE3394CT-ND	.60	17.07	28.45	PCE3394TR-ND	2,000	102.00/M	EEV-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3395CT-ND	.60	17.07	28.45	PCE3395TR-ND	2,000	102.00/M	EEV-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3396CT-ND	.71	20.34	33.90	PCE3396TR-ND	1,000	128.82	EEV-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3397CT-ND	.71	20.34	33.90	PCE3397TR-ND	1,000	128.82	EEV-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3398CT-ND	.64	19.20	33.60	PCE3398TR-ND	1,000	136.00	EEV-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3511CT-ND	.64	19.20	33.60	PCE3511TR-ND	1,000	136.00	EEV-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3399CT-ND	.64	19.20	33.60	PCE3399TR-ND	1,000	136.00	EEV-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3512CT-ND	.87	26.16	45.78	PCE3512TR-ND	900	176.58	EEV-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3513CT-ND	.87	26.16	45.78	PCE3513TR-ND	900	176.58	EEV-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3400CT-ND	.82	26.16	47.09	PCE3400TR-ND	1,000	209.00	EEV-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3401CT-ND	1.06	33.92	61.06	PCE3401TR-ND	500	161.12	EEV-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE3712CT-ND	1.05	35.34	64.17	PCE3712TR-ND	500	167.40	EEV-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3402CT-ND	1.06	33.92	61.06	PCE3402TR-ND	500	161.12	EEV-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE3713CT-ND	1.05	35.34	64.17	PCE3713TR-ND	500	167.40	EEV-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3501CT-ND	1.12	37.75	68.55	PCE3501TR-ND	500	178.83	EEV-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE3714CT-ND	1.23	41.42	75.21	PCE3714TR-ND	500	196.20	EEV-FK1C681GP
25	10	0.14	1.35	3.0	B	90	PCE3403CT-ND	.60	17.07	28.45	PCE3403TR-ND	2,000	102.42/M	EEV-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3404CT-ND	.71	20.34	33.90	PCE3404TR-ND	1,000	128.82	EEV-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3405CT-ND	.71	20.34	33.90	PCE3405TR-ND	1,000	128.82	EEV-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3406CT-ND	.64	19.20	33.60	PCE3406TR-ND	1,000	136.00	EEV-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3407CT-ND	.64	19.20	33.60	PCE3407TR-ND	1,000	136.00	EEV-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3514CT-ND	.64	19.20	33.60	PCE3514TR-ND	1,000	136.00	EEV-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3515CT-ND	.87	26.16	45.78	PCE3515TR-ND	900	176.58	EEV-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3408CT-ND	.82	26.16	47.09	PCE3408TR-ND	1,000	209.00	EEV-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3516CT-ND	1.06	33.92	61.06	PCE3516TR-ND	500	161.12	EEV-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3409CT-ND	1.06	33.92	61.06	PCE3409TR-ND	500	161.12	EEV-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE3715CT-ND	1.05	35.34	64.17	PCE3715TR-ND	500	167.40	EEV-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3410CT-ND	1.06	33.92	61.06	PCE3410TR-ND	500	161.12	EEV-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE3716CT-ND	1.05	35.34	64.17	PCE3716TR-ND	500	167.40	EEV-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3411CT-ND	1.12	37.75	68.55	PCE3411TR-ND	500	178.83	EEV-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE3717CT-ND	1.23	41.42	75.21	PCE3717TR-ND	500	196.20	EEV-FK1E471GP
35	4.7	0.12	1.35	3.0	B	90	PCE3412CT-ND	.60	17.07	28.45	PCE3412TR-ND	2,000	102.00/M	EEV-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3413CT-ND	.60	17.07	28.45	PCE3413TR-ND	2,000	102.00/M	EEV-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3414CT-ND	.71	20.34	33.90	PCE3414TR-ND	1,000	128.82	EEV-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3415CT-ND	.71	20.34	33.90	PCE3415TR-ND	1,000	128.82	EEV-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3416CT-ND	.64	19.20	33.60	PCE3416TR-ND	1,000	136.00	EEV-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3417CT-ND	.64	19.20	33.60	PCE3417TR-ND	1,000	136.00	EEV-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3517CT-ND	.87	26.16	45.78	PCE3517TR-ND	900	176.58	EEV-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3518CT-ND	.87	26.16	45.78	PCE3518TR-ND	900	176.58	EEV-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3418CT-ND	1.06	33.92	61.06	PCE3418TR-ND	500	161.12	EEV-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE3720CT-ND	1.04	35.28	64.07	PCE3720TR-ND	500	167.13	EEV-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3519CT-ND	1.06	33.92	61.06	PCE3519TR-ND	500	161.12	EEV-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3419CT-ND	1.06	33.92	61.06	PCE3419TR-ND	500	161.12	EEV-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE3721CT-ND	1.05	35.34	64.17	PCE3721TR-ND	500	167.40	EEV-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3420CT-ND	1.12	37.75	68.55	PCE3420TR-ND	500	178.83	EEV-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE3722CT-ND	1.23	41.42	75.21	PCE3722TR-ND	500	196.20	EEV-FK1V331GP
50	4.7	0.10	2.90	3.0	B	60	PCE3467CT-ND	.60	17.07	28.45	PCE3467TR-ND	2,000	102.00/M	EEV-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3468CT-ND	.71	20.34	33.90	PCE3468TR-ND	1,000	128.82	EEV-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3469CT-ND	.64	19.20	33.60	PCE3469TR-ND	1,000	136.00	EEV-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3470CT-ND	.64	19.20	33.60	PCE3470TR-ND	1,000	136.00	EEV-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3520CT-ND	.87	26.16	45.78	PCE3520TR-ND	900	176.58	EEV-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3471CT-ND	.82	26.20	47.16	PCE3471TR-ND	1,000	210.00	EEV-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3521CT-ND	.87	26.16	45.78	PCE3521TR-ND	900	176.58	EEV-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3472CT-ND	.82	26.20	47.16	PCE3472TR-ND	1,000	210.00	EEV-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3473CT-ND	1.06	33.92	61.06	PCE3473TR-ND	500	161.12	EEV-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE3718CT-ND	1.05	35.34	64.17	PCE3718TR-ND	500	167.40	EEV-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3522CT-ND	1.12	37.75	68.55	PCE3522TR-ND	500	178.83	EEV-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3474CT-ND	1.12	37.75	68.55	PCE3474TR-ND	500	178.83	EEV-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE3719CT-ND	1.23	41.42	75.21	PCE3719TR-ND	500	196.20	EEV-FK1H221GP

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Digi-Reel®

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
63	4.7	0.08	3.00	3.0	C	50	PCE3478CT-ND	.57	17.11	29.95	PCE3478TR-ND	1,000	121.21	EEV-FK1J4R7R
	10	0.08	1.50	6.3	D	80	PCE3479CT-ND	.67	20.16	35.28	PCE3479TR-ND	1,000	142.80	EEV-FK1J100P
	22	0.08	1.20	13.9	D8	120	PCE3524CT-ND	.92	27.48	48.09	PCE3524TR-ND	900	185.49	EEV-FK1J220XP
	22	0.08	1.20	13.9	E	120	PCE3480CT-ND	.86	27.50	49.50	PCE3480TR-ND	1,000	220.00	EEV-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3481CT-ND	1.11	35.62	64.12	PCE3481TR-ND	500	169.20	EEV-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3482CT-ND	1.11	35.62	64.12	PCE3482TR-ND	500	169.20	EEV-FK1J470P
	68	0.08	0.35	42.8	G	400	PCE3525CT-ND	1.17	39.65	72.00	PCE3525TR-ND	500	188.00	EEV-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3483CT-ND	1.17	39.65	72.00	PCE3483TR-ND	500	187.83	EEV-FK1J101P
80	3.3	0.08	5.00	3.0	C	25	PCE3487CT-ND	.57	17.11	29.95	PCE3487TR-ND	1,000	121.21	EEV-FK1K3R3R
	4.7	0.08	3.00	3.8	D	40	PCE3488CT-ND	.67	20.16	35.28	PCE3488TR-ND	1,000	142.80	EEV-FK1K4R7P
	10	0.08	2.40	8.0	D8	60	PCE3527CT-ND	.92	27.48	48.09	PCE3527TR-ND	900	185.49	EEV-FK1K100XP
	10	0.08	2.40	8.0	E	60	PCE3489CT-ND	.86	27.50	49.50	PCE3489TR-ND	1,000	220.00	EEV-FK1K100P
	22	0.08	1.30	17.6	F	130	PCE3490CT-ND	1.11	35.62	64.12	PCE3490TR-ND	500	169.20	EEV-FK1K220P
	33	0.08	1.30	26.4	F	130	PCE3491CT-ND	1.11	35.62	64.12	PCE3491TR-ND	500	169.20	EEV-FK1K330P
	47	0.08	0.70	37.6	G	200	PCE3492CT-ND	1.17	39.65	72.00	PCE3492TR-ND	500	187.83	EEV-FK1K470P
100	22	0.07	1.30	22.0	F	130	PCE3502CT-ND	1.10	35.14	63.25	PCE3502TR-ND	500	166.92	EEV-FK2A220P
	33	0.07	0.70	33.0	G	200	PCE3503CT-ND	1.15	38.84	70.52	PCE3503TR-ND	500	183.96	EEV-FK2A330

Panasonic® FP Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

Digi-Reel® RoHS COMPLIANT

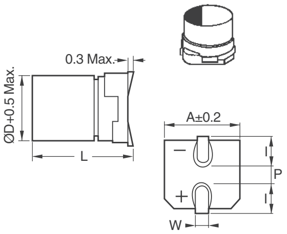

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3 (µA) whichever is greater after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: Reflow (I.R or I.R + Heated Air. VPS is not allowed)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥255°C)	Duration (Temp. ≥230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Following Specified Values:

Impedance 120Hz	Rated Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C / 20°C	2	2	2	2	2
-40°C / 20°C	3	3	3	3	3
-55°C / 20°C	4	4	4	3	3

Size Code	Dimensions – mm					
	øD	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65 ±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65 ±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65 ±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65 ±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

F

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	ESR (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
6.3	22	0.26	0.85	3.0	B	160	PCE4510CT-ND	.66	18.84	31.40	PCE4510TR-ND	2,000	112.00/M	EEE-FP0J220AR
	47	0.26	0.36	3.0	C	240	PCE4511CT-ND	.60	17.95	31.42	PCE4511TR-ND	1,000	126.00	EEE-FP0J470AR
	47	0.26	0.85	3.0	B	160	PCE4512CT-ND	.69	19.80	33.00	PCE4512TR-ND	2,000	117.00/M	EEE-FPJ470UAR
	100	0.26	0.26	6.3	D	300	PCE4513CT-ND	.71	21.19	37.09	PCE4513TR-ND	1,000	148.00	EEE-FP0J101AP
	100	0.26	0.36	6.3	C	240	PCE4514CT-ND	.63	18.94	33.14	PCE4514TR-ND	1,000	132.00	EEE-FPJ101UAR
	220	0.26	0.26	13.8	D	300	PCE4515CT-ND	.71	21.19	37.09	PCE4515TR-ND	1,000	148.00	EEE-FP0J221AP
	330	0.26	0.18	20.7	E	500	PCE4516CT-ND	.90	28.88	51.98	PCE4516TR-ND	1,000	228.00	EEE-FP0J331AP
	330	0.26	0.16	20.7	D8	600	PCE4517CT-ND	.96	28.90	50.57	PCE4517TR-ND	900	192.60	EEE-FPJ331XAP
	470	0.26	0.08	29.6	F	850	PCE4518CT-ND	1.05	35.57	64.58	PCE4518TR-ND	500	166.00	EEE-FP0J471AP
	1000	0.26	0.08	63.0	F	850	PCE4430CT-ND	1.05	35.34	64.17	PCE4430TR-ND	500	164.50	EEE-FP0J102AP
	1500	0.26	0.06	94.5	G	1190	PCE4431CT-ND	1.23	41.40	75.18	PCE4431TR-ND	500	192.50	EEE-FP0J152AP
	1800	0.26	0.08	113.4	G	850	PCE4432CT-ND	1.35	45.56	82.73	PCE4432TR-ND	500	212.00	EEE-FPJ182UAP
10	22	0.19	0.85	3.0	B	160	PCE4519CT-ND	.66	18.84	31.40	PCE4519TR-ND	2,000	112.00/M	EEE-FP1A220AR
	33	0.19	0.36	3.3	C	240	PCE4520CT-ND	.60	17.95	31.42	PCE4520TR-ND	1,000	126.00	EEE-FP1A330AR
	33	0.19	0.85	3.3	B	160	PCE4521CT-ND	.69	19.80	33.00	PCE4521TR-ND	2,000	117.00/M	EEE-FPA330UAR
	150	0.19	0.26	15.0	D	300	PCE4522CT-ND	.71	21.19	37.09	PCE4522TR-ND	1,000	148.00	EEE-FP1A151AP
	220	0.19	0.18	22.0	E	500	PCE4523CT-ND	.90	28.88	51.98	PCE4523TR-ND	1,000	228.00	EEE-FP1A221AP
	220	0.19	0.16	22.0	D8	600	PCE4524CT-ND	.96	28.90	50.57	PCE4524TR-ND	900	192.60	EEE-FPA221XAP
	330	0.19	0.08	33.0	F	850	PCE4525CT-ND	1.05	35.57	64.58	PCE4525TR-ND	500	166.00	EEE-FP1A331AP
	470	0.19	0.08	47.0	F	850	PCE4526CT-ND	1.05	35.57	64.58	PCE4526TR-ND	500	166.00	EEE-FP1A471AP
	680	0.19	0.08	68.0	F	850	PCE4433CT-ND	1.05	35.34	64.17	PCE4433TR-ND	500	164.50	EEE-FP1A681AP
	1000	0.19	0.06	100.0	G	1190	PCE4434CT-ND	1.23	41.40	75.18	PCE4434TR-ND	500	192.50	EEE-FP1A102AP
	1200	0.19	0.08	120.0	G	850	PCE4435CT-ND	1.35	45.56	82.73	PCE4435TR-ND	500	212.00	EEE-FPA122UAP
16	10	0.16	0.85	3.0	B	160	PCE4527CT-ND	.66	18.84	31.40	PCE4527TR-ND	2,000	112.00/M	EEE-FP1C100AR
	22	0.16	0.36	3.5	C	240	PCE4528CT-ND	.60	17.95	31.42	PCE4528TR-ND	1,000	126.00	EEE-FP1C220AR
	22	0.16	0.85	3.5	B	160	PCE4529CT-ND	.69	19.80	33.00	PCE4529TR-ND	2,000	117.00/M	EEE-FPC220UAR
	47	0.16	0.26	7.5	D	300	PCE4530CT-ND	.71	21.19	37.09	PCE4530TR-ND	1,000	148.00	EEE-FP1C470AP
	47	0.16	0.36	7.5	C	240	PCE4531CT-ND	.63	18.94	33.14	PCE4531TR-ND	1,000	132.00	EEE-FPC470UAR
	68	0.16	0.26	10.8	D	300	PCE4532CT-ND	.71	21.19	37.09	PCE4532TR-ND	1,000	148.00	EEE-FP1C680AP
	100	0.16	0.26	16.0	D	300	PCE4533CT-ND	.71	21.19	37.09	PCE4533TR-ND	1,000	148.00	EEE-FP1C101AP
	100	0.16	0.16	16.0	D8	600	PCE4534CT-ND	.96	28.90	50.57	PCE4534TR-ND	900	192.60	EEE-FPC101XAP
	150	0.16	0.16	24.0	D8	600	PCE4535CT-ND	.96	28.90	50.57	PCE4535TR-ND	900	192.60	EEE-FPC151XAP
	220	0.16	0.18	35.2	E	500	PCE4536CT-ND	.90	28.88	51.98	PCE4536TR-ND	1,000	228.00	EEE-FP1C221AP
	220	0.16	0.16	35.2	D8	600	PCE4537CT-ND	.96	28.90	50.57	PCE4537TR-ND	900	192.60	EEE-FPC221XAP
	330	0.16	0.08	52.8	F	850	PCE4538CT-ND	1.05	35.57	64.58	PCE4538TR-ND	500	166.00	EEE-FP1C331AP
	470	0.16	0.08	75.2	F	850	PCE4436CT-ND	1.05	35.34	64.17	PCE4436TR-ND	500	164.50	EEE-FP1C471AP
	680	0.16	0.06	108.8	G	1190	PCE4437CT-ND	1.23	41.40	75.18	PCE4437TR-ND	500	192.50	EEE-FP1C681AP
	820	0.16	0.08	131.2	G	850	PCE4438CT-ND	1.35	45.56	82.73	PCE4438TR-ND	500	212.00	EEE-FPC821UAP
25	10	0.14	0.85	3.0	B	160	PCE4539CT-ND	.66	18.84	31.40	PCE4539TR-ND	2,000	112.00/M	EEE-FP1E100AR
	22	0.14	0.36	5.5	C	240	PCE4540CT-ND	.60	17.95	31.42	PCE4540TR-ND	1,000	126.00	EEE-FP1E220AR
	33	0.14	0.26	8.2	D	300	PCE4541CT-ND	.71	21.19	37.09	PCE4541TR-ND	1,000	148.00	EEE-FP1E330AP
	33	0.14	0.36	8.2	C	240	PCE4542CT-ND	.63	18.94	33.14	PCE4542TR-ND	1,000	132.00	EEE-FPE330UAR
	47	0.14	0.26	11.7	D	300	PCE4543CT-ND	.71	21.19	37.09	PCE4543TR-ND	1,000	148.00	EEE-FP1E470AP
	68	0.14	0.26	17.0	D	300	PCE4544CT-ND	.71	21.19	37.09	PCE4544TR-ND	1,000	148.00	EEE-FP1E680AP
	100	0.14	0.18	25.0	E	500	PCE4545CT-ND	.90	28.88	51.98	PCE4545TR-ND	1,000	228.00	EEE-FP1E101AP
	100	0.14	0.16	25.0	D8	600	PCE4546CT-ND	.96	28.90	50.57	PCE4546TR-ND	900	192.60	EEE-FPE101XAP
	150	0.14	0.08	37.5	F	850	PCE4547CT-ND	1.05	35.57	64.58	PCE4547TR-ND	500	166.00	EEE-FP1E151AP
	220	0.14	0.08	55.0	F	850	PCE4548CT-ND	1.05	35.57	64.58	PCE4548TR-ND	500	166.00	EEE-FP1E221AP
	470	0.14	0.06	117.5	G	1190	PCE4440CT-ND	1.23	41.40	75.18	PCE4440TR-ND	500	192.50	EEE-FP1E471AP
	560	0.14	0.08	140.0	G	850	PCE4441CT-ND	1.35	45.56	82.73	PCE4441TR-ND	500	212.00	EEE-FPE561UAP
35	10	0.12	0.85	3.5	B	160	PCE4549CT-ND	.69	19.80	33.00	PCE4549TR-ND	2,000	117.00/M	EEE-FPV100UAR
	22	0.12	0.36	7.7	C	240	PCE4550CT-ND	.60	17.95	31.42	PCE4550TR-ND	1,000	126.00	EEE-FP1V220AR
	33	0.12	0.26	11.5	D	300	PCE4551CT-ND	.71	21.19	37.09	PCE4551TR-ND	1,000	148.00	EEE-FP1V330AP
	47	0.12	0.26	16.4	D	300	PCE4552CT-ND	.71	21.19	37.09	PCE4552TR-ND	1,000	148.00	EEE-FP1V470AP
	68	0.12	0.16	16.4	D8	600	PCE4553CT-ND	.90	28.88	51.98	PCE4553TR-ND	900	217.80	EEE-FPV680XAP
	100	0.12	0.16	35.0	D8	600	PCE4554CT-ND	.90	28.88	51.98	PCE4554TR-ND	900	217.80	EEE-FPV101XAP
	100	0.12	0.08	35.0	F	850	PCE4442CT-ND	1.05	35.34	64.17	PCE4442TR-ND	500	164.50	EEE-FP1V101AP
	150	0.12	0.08	52.5	F	850	PCE4443CT-ND	1.05	35.34	64.17	PCE4443TR-ND	500	164.50	EEE-FP1V151AP
	220	0.12	0.08	77.0	F	850	PCE4444CT-ND	1.05	35.34	64.17	PCE4444TR-ND	500	164.50	EEE-FP1V221AP
	330	0.12	0.06	115.5	G	1190	PCE4445CT-ND	1.23	41.40	75.18	PCE4445TR-ND	500	192.50	EEE-FP1V331AP
	390	0.12	0.08	136.5	G	850	PCE4446CT-ND	1.35	45.56	82.73	PCE4446TR-ND	500	212.00	EEE-FPV391UAP

Panasonic® EB Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

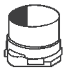

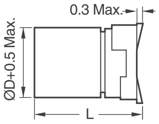

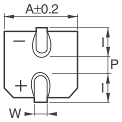

Features: • Long Life: 3000-5000H @ 105°C • High Voltage • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -25°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.06CV +10(µA) after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: • Reflow: 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage					
	160V	200V	250V	350V	400V	450V
-25°C/+20°C	2	2	3	5	6	6

Size Code	Dimensions – mm					
	D	L	A	I	W	P
G13	10	13.5	10.3	3.5	0.90 ±0.2	4.6
G17	10	16.5	10.3	3.5	0.90 ±0.2	4.6
H16	12.5	16.5	13.5	4.7	0.90 ±0.3	4.4
J16	16	16.5	17.0	5.5	1.2 ±0.3	6.7
J21	16	21.5	17.0	5.5	1.2 ±0.3	6.7
K16	18	16.5	19.0	6.5	1.2 ±0.3	6.7
K21	18	21.5	19.0	6.5	1.2 ±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100kHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50		Qty.	Pricing	
EB Long Life, High Ripple Series: –25°C ~ 105°C (3000 – 5000 Hour Life)												
160	10	0.15	106.0	G13	70	PCE3421CT-ND	1.33	.96	PCE3421TR-ND	250	128.40	EEV-EB2C100Q
	33	0.15	326.8	H16	470	PCE3422CT-ND	2.18	1.57	PCE3422TR-ND	150	142.66	EEV-EB2C330SQ
	47	0.15	461.2	J16	600	PCE3579CT-ND	2.23	1.72	PCE3579TR-ND	125	138.75	EEV-EB2C470SM
	68	0.15	662.8	J21	750	PCE3580CT-ND	2.64	2.03	PCE3580TR-ND	75	112.28	EEV-EB2C680M
	68	0.15	662.8	K16	750	PCE3581CT-ND	2.64	2.03	PCE3581TR-ND	125	163.75	EEV-EB2C680SM
	100	0.15	970.0	K21	1060	PCE3578CT-ND	3.14	2.42	PCE3578TR-ND	75	133.65	EEV-EB2C101M
200	22	0.15	274.0	H16	470	PCE3427CT-ND	2.18	1.57	PCE3427TR-ND	150	142.66	EEV-EB2D220SQ
	33	0.15	406.0	J16	600	PCE3583CT-ND	2.23	1.72	PCE3583TR-ND	125	138.75	EEV-EB2D330SM
	47	0.15	574.0	K16	600	PCE3584CT-ND	2.64	2.03	PCE3584TR-ND	125	163.75	EEV-EB2D470SM
	68	0.15	826.0	J21	750	PCE3585CT-ND	2.64	2.03	PCE3585TR-ND	75	112.28	EEV-EB2D680M
	100	0.15	1210.0	K21	1060	PCE3582CT-ND	3.14	2.42	PCE3582TR-ND	75	133.65	EEV-EB2D101M
250	10	0.15	160.0	G17	88	PCE3432CT-ND	1.52	1.10	PCE3432TR-ND	200	132.75	EEV-EB2E100Q
	22	0.15	340.0	J16	560	PCE3586CT-ND	2.23	1.72	PCE3586TR-ND	125	138.75	EEV-EB2E220SM
	33	0.15	505.0	K16	560	PCE3587CT-ND	2.64	2.03	PCE3587TR-ND	125	163.75	EEV-EB2E330SM
	47	0.15	715.0	J21	710	PCE3588CT-ND	2.64	2.03	PCE3588TR-ND	75	112.28	EEV-EB2E470M
	68	0.15	1030.0	K21	990	PCE3589CT-ND	3.14	2.42	PCE3589TR-ND	75	133.65	EEV-EB2E680M
350	10	0.20	220.0	J16	270	PCE3593CT-ND	2.23	1.72	PCE3593TR-ND	125	138.63	EEV-EB2V100SM
	22	0.20	472.0	K16	350	PCE3594CT-ND	2.64	2.03	PCE3594TR-ND	125	163.75	EEV-EB2V220SM
	33	0.20	703.0	J21	480	PCE3595CT-ND	2.64	2.03	PCE3595TR-ND	75	112.28	EEV-EB2V330M
	47	0.20	997.0	K21	670	PCE3596CT-ND	3.14	2.42	PCE3596TR-ND	75	133.65	EEV-EB2V470M
400	3.3	0.24	89.2	G13	40	PCE3441CT-ND	1.33	.96	PCE3441TR-ND	250	128.40	EEV-EB2G3R3Q
	4.7	0.24	122.8	G17	50	PCE3442CT-ND	1.52	1.10	PCE3442TR-ND	200	132.75	EEV-EB2G4R7Q
	10	0.24	250.0	J16	250	PCE3590CT-ND	2.23	1.72	PCE3590TR-ND	125	138.75	EEV-EB2G100SM
	22	0.24	538.0	J21	410	PCE3591CT-ND	2.64	2.03	PCE3591TR-ND	75	112.28	EEV-EB2G220M
	33	0.24	802.0	K21	600	PCE3592CT-ND	3.14	2.42	PCE3592TR-ND	75	133.65	EEV-EB2G330M
450	2.2	0.24	69.4	G13	29	PCE3446CT-ND	1.33	.96	PCE3446TR-ND	250	128.40	EEV-EB2W2R2Q
	3.3	0.24	99.1	G17	41	PCE3447CT-ND	1.52	1.10	PCE3447TR-ND	200	132.75	EEV-EB2W3R3Q
	4.7	0.24	136.9	H16	49	PCE3448CT-ND	2.18	1.57	PCE3448TR-ND	150	142.66	EEV-EB2W4R7SQ
	10	0.24	280.0	K16	310	PCE3597CT-ND	2.64	2.03	PCE3597TR-ND	125	163.75	EEV-EB2W100SM
	22	0.24	604.0	K21	560	PCE3598CT-ND	3.14	2.42	PCE3598TR-ND	75	133.65	EEV-EB2W220M

Panasonic® TA Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • High Temperature: 125°C • Automotive Applications • Life Time: 1000H @ 125°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

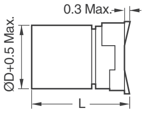

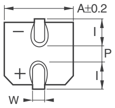

Following specified values:

Impedance 120Hz	Working Voltage				
	10V	16V	25V	35V	50V
-25°C/+20°C	8	8	4	3	3
-40°C/+20°C	14	12	10	8	8

Size Code	Dimensions – mm					
	D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100kHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	50	100		Qty.	Pricing	
TA Automotive Series: –40°C ~ 125°C (1000 Hour Life)													
10	100	0.32	10.0	E	62	PCE3143CT-ND	1.14	.77	.70	PCE3143TR-ND	1,000	313.00	EEV-TA1A101P
	220	0.32	22.0	F	93	PCE3144CT-ND	1.30	.94	.86	PCE3144TR-ND	500	221.00	EEV-TA1A221P
	330	0.32	33.0	G	118	PCE3145CT-ND	1.53	1.11	1.02	PCE3145TR-ND	500	260.50	EEV-TA1A331P
16	100	0.24	16.0	F	89	PCE3146CT-ND	1.30	.94	.86	PCE3146TR-ND	500	221.00	EEV-TA1C101P
	220	0.24	35.2	G	113	PCE3147CT-ND	1.53	1.11	1.02	PCE3147TR-ND	500	260.50	EEV-TA1C221P
25	47	0.21	11.8	E	56	PCE3148CT-ND	1.14	.77	.70	PCE3148TR-ND	1,000	313.00	EEV-TA1E470P
	100	0.21	25.0	F	84	PCE3149CT-ND	1.30	.94	.86	PCE3149TR-ND	500	221.00	EEV-TA1E101P
35	33	0.18	11.6	E	53	PCE3150CT-ND	1.14	.77	.70	PCE3150TR-ND	1,000	313.00	EEV-TA1V330P
	47	0.18	16.5	F	79	PCE3151CT-ND	1.30	.94	.86	PCE3151TR-ND	500	221.00	EEV-TA1V470P
	100	0.18	3.5	G	101	PCE3152CT-ND	1.53	1.11	1.02	PCE3152TR-ND	500	260.50	EEV-TA1V101P
50	10	0.18	5.0	E	25	PCE3153CT-ND	1.14	.77	.70	PCE3153TR-ND	1,000	313.00	EEV-TA1H100P
	22	0.18	11.0	E	50	PCE3154CT-ND	1.14	.77	.70	PCE3154TR-ND	1,000	313.00	EEV-TA1H220P
	33	0.18	16.5	F	74	PCE3155CT-ND	1.30	.94	.86	PCE3155TR-ND	500	221.00	EEV-TA1H330P
	47	0.18	23.5	G	94	PCE3156CT-ND	1.53	1.11	1.02	PCE3156TR-ND	500	260.50	EEV-TA1H470P

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature) **Specifications:** • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz) • Soldering Reflow: 8-10mm case, 235°C for 5 seconds; 12.5-18mm case, 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage							
	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

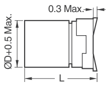

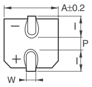

Size Code	Dimensions – mm					
	D	L	A	l	W	P
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90 ±0.3	4.4
J16	16.0	16.5	17.0	5.5	1.20 ±0.3	6.7
K16	18.0	16.5	19.0	6.7	1.20 ±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	ESR (100kHz) (20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
TG Series: –40°C ~ 125°C (1000 – 2000 Hour Life)														
10	100	0.30	1.0	10.0	E	100	PCE4034CT-ND	.98	.63	.57	PCE4034TR-ND	1,000	247.00	EEE-TG1A101P
	220	0.30	1.0	22.0	E	100	PCE4038CT-ND	1.01	.65	.59	PCE4038TR-ND	1,000	255.00	EEE-TG1A221UP
	220	0.30	0.5	22.0	E	197	PCE4037CT-ND	1.10	.75	.68	PCE4037TR-ND	500	173.43	EEE-TG1A221P
	330	0.30	0.5	33.0	F	197	PCE4041CT-ND	1.14	.77	.70	PCE4041TR-ND	500	177.93	EEE-TG1A331UP
	330	0.30	0.3	33.0	G	270	PCE4040CT-ND	1.32	.90	.82	PCE4040TR-ND	500	208.00	EEE-TG1A331P
	470	0.30	0.3	47.0	G	270	PCE4044CT-ND	1.35	.92	.84	PCE4044TR-ND	500	212.50	EEE-TG1A471UP
	1000	0.30	0.12	100.0	H13	800	PCE3608CT-ND	2.17	1.57	1.44	PCE3608TR-ND	200	191.75	EEV-TG1A102Q
	1500	0.30	0.12	150.0	H13	800	PCE3609CT-ND	2.23	1.61	1.47	PCE3609TR-ND	200	196.65	EEV-TG1A152UQ
	2200	0.32	0.08	220.0	J16	1100	PCE3612CT-ND	2.91	2.24	—	PCE3612TR-ND	125	182.63	EEV-TG1A222M
	3300	0.34	0.075	330.0	K16	1300	PCE3615CT-ND	3.45	2.65	—	PCE3615TR-ND	125	216.88	EEV-TG1A332M
	3300	0.34	0.08	330.0	J16	1100	PCE3616CT-ND	2.96	2.28	—	PCE3616TR-ND	125	186.00	EEV-TG1A332UM
	4700	0.36	0.075	470.0	K16	1300	PCE3618CT-ND	3.45	2.65	—	PCE3618TR-ND	125	216.88	EEV-TG1A472M
16	100	0.23	0.5	16.0	F	197	PCE4046CT-ND	1.10	.75	.68	PCE4046TR-ND	500	173.43	EEE-TG1C101P
	220	0.23	0.5	35.2	F	197	PCE4050CT-ND	1.14	.77	.70	PCE4050TR-ND	500	177.93	EEE-TG1C221UP
	220	0.23	0.3	35.2	G	270	PCE4049CT-ND	1.32	.90	.82	PCE4049TR-ND	500	208.00	EEE-TG1C221P
	330	0.23	0.3	52.8	G	270	PCE4054CT-ND	1.35	.92	.84	PCE4054TR-ND	500	212.50	EEE-TG1C331UP
	330	0.23	0.12	52.8	H13	800	PCE3626CT-ND	2.17	1.57	1.44	PCE3626TR-ND	200	191.75	EEV-TG1C331Q
	470	0.23	0.12	75.2	H13	800	PCE3629CT-ND	2.17	1.57	1.44	PCE3629TR-ND	200	191.75	EEV-TG1C471Q
	680	0.23	0.12	108.8	H13	800	PCE3630CT-ND	2.17	1.57	1.44	PCE3630TR-ND	200	191.75	EEV-TG1C681Q
	1000	0.23	0.08	160.0	J16	1100	PCE3620CT-ND	2.81	2.17	—	PCE3620TR-ND	125	176.63	EEV-TG1C102M
	1000	0.23	0.12	160.0	H13	800	PCE3621CT-ND	2.23	1.61	1.47	PCE3621TR-ND	200	196.65	EEV-TG1C102UQ
	2200	0.25	0.075	352.0	K16	1300	PCE3624CT-ND	3.35	2.58	—	PCE3624TR-ND	125	210.88	EEV-TG1C222M
	2200	0.25	0.08	352.0	J16	1100	PCE3625CT-ND	2.86	2.20	—	PCE3625TR-ND	125	179.75	EEV-TG1C222UM
	3300	0.27	0.075	528.0	K16	1300	PCE3628CT-ND	3.35	2.58	—	PCE3628TR-ND	125	210.88	EEV-TG1C332M
25	47	0.18	1.0	11.75	E	100	PCE4067CT-ND	.98	.63	.57	PCE4067TR-ND	1,000	247.00	EEE-TG1E470P
	100	0.18	1.0	25.0	E	100	PCE4059CT-ND	1.01	.65	.59	PCE4059TR-ND	1,000	255.00	EEE-TG1E101UP
	100	0.18	0.5	25.0	F	197	PCE4058CT-ND	1.10	.75	.68	PCE4058TR-ND	500	173.43	EEE-TG1E101P
	220	0.18	0.5	55.0	F	197	PCE4063CT-ND	1.14	.77	.70	PCE4063TR-ND	500	177.93	EEE-TG1E221UP
	220	0.18	0.3	55.0	G	270	PCE4062CT-ND	1.32	.90	.82	PCE4062TR-ND	500	208.00	EEE-TG1E221P
	330	0.18	0.3	82.5	G	270	PCE4066CT-ND	1.32	.90	.82	PCE4066TR-ND	500	211.50	EEE-TG1E331UP
	330	0.18	0.12	82.5	H13	800	PCE3638CT-ND	2.17	1.57	1.44	PCE3638TR-ND	200	191.75	EEV-TG1E331Q
	470	0.18	0.12	117.5	H13	800	PCE3641CT-ND	2.17	1.57	1.44	PCE3641TR-ND	200	191.75	EEV-TG1E471Q
	680	0.18	0.08	170.0	J16	1100	PCE3642CT-ND	2.81	2.17	—	PCE3642TR-ND	125	176.63	EEV-TG1E681M
	680	0.18	0.12	170.0	H13	800	PCE3643CT-ND	2.23	1.61	1.47	PCE3643TR-ND	200	196.65	EEV-TG1E681UQ
	1000	0.18	0.075	250.0	K16	1300	PCE3633CT-ND	3.35	2.58	—	PCE3633TR-ND	125	210.88	EEV-TG1E102M
	1000	0.18	0.08	250.0	J16	1100	PCE3634CT-ND	2.86	2.20	—	PCE3634TR-ND	125	179.75	EEV-TG1E102UM
	2200	0.20	0.075	550.0	K16	1300	PCE3637CT-ND	3.35	2.58	—	PCE3637TR-ND	125	210.88	EEV-TG1E222M
35	33	0.16	1.0	11.55	E	100	PCE4113CT-ND	.98	.63	.57	PCE4113TR-ND	1,000	247.00	EEE-TG1V330P
	47	0.16	1.0	16.45	E	100	PCE4116CT-ND	1.01	.65	.59	PCE4116TR-ND	1,000	255.00	EEE-TG1V470UP
	47	0.16	0.5	16.45	F	197	PCE4115CT-ND	1.10	.75	.68	PCE4115TR-ND	500	173.43	EEE-TG1V470P
	100	0.16	0.5	35.0	F	197	PCE4110CT-ND	1.14	.77	.70	PCE4110TR-ND	500	177.93	EEE-TG1V101UP
	100	0.16	0.3	35.0	G	270	PCE4109CT-ND	1.32	.90	.82	PCE4109TR-ND	500	208.00	EEE-TG1V101P
	220	0.16	0.3	77.0	G	270	PCE4112CT-ND	1.35	.92	.84	PCE4112TR-ND	500	212.50	EEE-TG1V221UP
	330	0.16	0.12	115.5	H13	800	PCE3687CT-ND	2.17	1.57	1.44	PCE3687TR-ND	1,000	639.15	EEV-TG1V331Q
	470	0.16	0.08	164.5	J16	1100	PCE3690CT-ND	2.81	2.17	—	PCE3690TR-ND	125	176.63	EEV-TG1V471M
	470	0.16	0.12	164.5	H13	800	PCE3691CT-ND	2.23	1.61	1.47	PCE3691TR-ND	200	196.65	EEV-TG1V471UQ
	680	0.16	0.075	238.0	K16	1300	PCE3692CT-ND	3.35	2.58	—	PCE3692TR-ND	125	210.88	EEV-TG1V681M
	680	0.16	0.08	238.0	J16	1100	PCE3693CT-ND	2.86	2.20	—	PCE3693TR-ND	125	179.75	EEV-TG1V681UM
	1000	0.16	0.075	350.0	K16	1300	PCE3684CT-ND	3.35	2.58	—	PCE3684TR-ND	125	210.88	EEV-TG1V102M
50	10	0.14	1.6	5.0	E	80	PCE4071CT-ND	.98	.63	.57	PCE4071TR-ND	1,000	247.00	EEE-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE4074CT-ND	.98	.63	.57	PCE4074TR-ND	1,000	247.00	EEE-TG1H220P
	33	0.14	1.6	16.5	E	80	PCE4077CT-ND	1.01	.65	.59	PCE4077TR-ND	1,000	255.00	EEE-TG1H330UP
	33	0.14	0.75	16.5	F	133	PCE4076CT-ND	1.10	.75	.68	PCE4076TR-ND	500	173.43	EEE-TG1H330P
	47	0.14	0.75	23.5	F	133	PCE4080CT-ND	1.14	.77	.70	PCE4080TR-ND	500	177.93	EEE-TG1H470UP
	47	0.14	0.5	23.5	G	221	PCE4079CT-ND	1.32	.90	.82	PCE4079TR-ND	500	208.00	EEE-TG1H470P
	100	0.14	0.5	50.0	G	221	PCE4072CT-ND	1.35	.92	.84	PCE4072TR-ND	500	212.50	EEE-TG1H101UP
	220	0.14	0.23	110.0	H13	600	PCE3648CT-ND	2.17	1.57	1.44	PCE3648TR-ND	200	191.75	EEV-TG1H221Q
	330	0.14	0.23	165.0	H13	600	PCE3651CT-ND	2.17	1.57	1.44	PCE3651TR-ND	200	191.75	EEV-TG1H331Q
	470	0.14	0.15	235.0	J16	900	PCE3654CT-ND	2.81	2.17	—	PCE3654TR-ND	125	176.63	EEV-TG1H471M
	680	0.14	0.14	340.0	K16	950	PCE3655CT-ND	3.35	2.58	—	PCE3655TR-ND	125	210.88	EEV-TG1H681M
	680	0.14	0.15	340.0	J16	900	PCE3656CT-ND	2.86	2.20	—	PCE3656TR-ND	125	179.75	EEV-TG1H681UM
	1000	0.14	0.14	500.0	K16	950	PCE3646CT-ND	3.35	2.58	—	PCE3646TR-ND	125	210.88	EEV-TG1H102M
63	10	0.12	2.2	6.3	E	55	PCE4084CT-ND	.98	.63	.57	PCE4084TR-ND	1,000	247.00	EEE-TG1J100P
	22	0.12	1.0	13.86	F	100	PCE4087CT-ND	1.10	.75	.68	PCE4087TR-ND	500	173.43	EEE-TG1J220P
	33	0.12	1.0	20.79	F	100	PCE4090CT-ND	1.14	.77	.70	PCE4090TR-ND	500	177.93	EEE-TG1J330UP
	33	0.12	0.8	20.79	G	150	PCE4089CT-ND	1.32	.90	.82	PCE4089TR-ND	500	208.00	EEE-TG1J330P
	47	0.12	1.0	29.61	F	100	PCE4093CT-ND	1.14	.77	.70	PCE4093TR-ND	500	177.93	EEE-TG1J470UP
	47	0.12	0.8	29.61	G	150	PCE4092CT-ND	1.32	.90	.82	PCE4092TR-ND	500	208.00	EEE-TG1J470P
	100	0.12	0.8	63.0	G	150	PCE4086CT-ND	1.35	.92	.84	PCE4086TR-ND	500	212.50	EEE-TG1J101UP
	100	0.12	0.26	63.0	H13	350	PCE3658CT-ND	2.17	1.57	1.44	PCE3658TR-ND	200	191.75	EEV-TG1J101Q
	220	0.12	0.26	138.6	H13	350	PCE3661CT-ND	2.17	1.57	1.44	PCE3661TR-ND	200	191.75	EEV-TG1J221Q
	330	0.12	0.18	207.9	J16	500	PCE3664CT-ND	2.81	2.17	—	PCE3664TR-ND	125	176.63	EEV-TG1J331M
	470	0.12	0.18	296.1	J16	500	PCE3667CT-ND	2.81	2.17	—	PCE3667TR-ND	125	176.63	EEV-TG1J471M
80	10	0.12	1.3	8.0	F	70	PCE4095CT-ND	1.10	.75	.68	PCE4095TR-ND	500	173.43	EEE-TG1K100P
	22	0.12	1.3	17.6	F	70	PCE4099CT-ND	1.14	.77	.70	PCE4099TR-ND	500	177.93	EEE-TG1K220UP
	22	0.12	1.0	17.6	G	90	PCE4098CT-ND	1.32	.90	.82	PCE4098TR-ND	500	208.00	EEE-TG1K220P
	33	0.12	1.3	26.4	F	70	PCE4103CT-ND	1.14	.77	.70	PCE4103TR-ND	500	177.93	EEE-TG1K330UP
	33	0.12	1.0	26.4	G	90	PCE4102CT-ND	1.32	.90	.82	PCE4102TR-ND	500	208.00	EEE-TG1K330P
	47	0.12	1.0	37.6	G	90	PCE4107CT-ND	1.35	.92	.84	PCE4107TR-ND	500	212.50	EEE-TG1K470UP
	47	0.12	0.42	37.6	H13	250	PCE3679CT-ND	2.17	1.57	1.44	PCE3679TR-ND	200	191.75	EEV-TG1K470Q
	100	0.12	0.3	80.0	J16	350	PCE3669CT-ND	2.81	2.17	—	PCE3669TR-ND	125	176.63	EEV-TG1K101M
	100	0.12	0.42	80.0	H13	250	PCE3670CT-ND	2.23	1.61	1.47	PCE3670TR-ND	200	196.65	EEV-TG1K101UQ
	220	0.12	0.28	176.0	K16	400	PCE3673CT-ND	3.35	2.58	—	PCE3673TR-ND	125	210.88	EEV-TG1K221M
	220	0.12	0.3	176.0	J16	350	PCE3674CT-ND	2.86	2.20	—	PCE3674TR-ND	125	179.75	EEV-TG1K221UM
	330	0.12	0.28	264.0	K16	400	PCE3677CT-ND	3.35	2.58	—	PCE3677TR-ND	125	210.88	EEV-TG1K331M
	330	0.12	0.3	264.0	J16	350	PCE3678CT-ND	2.86	2.20	—	PCE3678TR-ND	125	179.75	EEV-TG1K331UM
	470	0.12	0.28	376.0	K16	400	PCE3681CT-ND	3.35	2.58	—	PCE3681TR-ND	125	210.88	EEV-TG1K471M
100	10	0.1	1.3	10.0	F	70	PCE4121CT-ND	1.10	.75	.68	PCE4121TR-ND	500	173.43	EEE-TG2A100P
	22	0.1	1.3	22.0	F	70	PCE4124CT-ND	1.14	.77	.70	PCE4124TR-ND	500	177.93	EEE-TG2A220UP
	22	0.1	1.0	22.0	G	90	PCE4123CT-ND	1.32	.90	.82	PCE4123TR-ND	500	208.00	EEE-TG2A220P
	33	0.1	1.0	33.0	G	90	PCE4126CT-ND	1.32	.90	.82	PCE4126TR-ND	500	208.00	EEE-TG2A330P
	47	0.10	0.42	47.0	H13	250	PCE3701CT-ND	2.17	1.57	1.44	PCE3701TR-ND	200	191.75	EEV-TG2A470Q
	100	0.10	0.3	100.0	J16	350	PCE3695CT-ND	2.81	2.17	—	PCE3695TR-ND	125	176.63	EEV-TG2A101M
	220	0.10	0.28	220.0	K16	400	PCE3698CT-ND	3.35	2.58	—	PCE3698TR-ND	125	210.88	EEV-TG2A221M
	330	0.10	0.28	330.0	K16	400	PCE3700CT-ND	3.35	2.58	—	PCE3700TR-ND	125	210.88	EEV-TG2A331M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature)

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

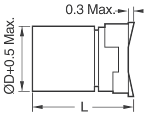

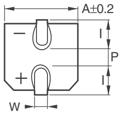

Following specified values:

Impedance 120Hz	Working Voltage							
	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

Size Code	Dimensions – mm					
	D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65 ±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90 ±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90 ±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	ESR (100kHz) (20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								1	50	100		Qty.	Pricing	
TG Series: –40°C ~ 125°C (1000 – 2000 Hour Life)														
10	100	0.30	1	10.0	E	100	PCE3607CT-ND	1.08	.70	.63	PCE3607TR-ND	1,000	277.00	EEV-TG1A101P
	220	0.30	1	22.0	F	197	PCE3610CT-ND	1.22	.83	.75	PCE3610TR-ND	1,000	336.35	EEV-TG1A221P
	220	0.30	0.5	22.0	E	100	PCE3611CT-ND	1.12	.72	.65	PCE3611TR-ND	1,000	286.00	EEV-TG1A221UP
	330	0.30	0.3	33.0	G	270	PCE3613CT-ND	1.30	.94	.86	PCE3613TR-ND	500	221.00	EEV-TG1A331P
	330	0.30	0.5	33.0	F	197	PCE3614CT-ND	1.25	.85	.77	PCE3614TR-ND	500	200.50	EEV-TG1A331UP
	470	0.30	0.3	47.0	G	270	PCE3617CT-ND	1.33	.96	.88	PCE3617TR-ND	500	226.00	EEV-TG1A471UP
16	100	0.23	0.5	16.0	F	197	PCE3619CT-ND	1.22	.83	.75	PCE3619TR-ND	500	195.30	EEV-TG1C101P
	220	0.23	0.3	35.2	G	270	PCE3622CT-ND	1.30	.94	.86	PCE3622TR-ND	500	221.00	EEV-TG1C221P
	220	0.23	0.5	35.2	F	197	PCE3623CT-ND	1.25	.85	.77	PCE3623TR-ND	500	200.50	EEV-TG1C221UP
	330	0.23	0.3	52.8	G	270	PCE3627CT-ND	1.33	.96	.88	PCE3627TR-ND	500	226.00	EEV-TG1C331UP
25	47	0.18	1	11.75	E	100	PCE3640CT-ND	1.08	.70	.63	PCE3640TR-ND	1,000	277.00	EEV-TG1E470P
	100	0.18	0.5	25.0	F	197	PCE3631CT-ND	1.22	.83	.75	PCE3631TR-ND	500	195.30	EEV-TG1E101P
	100	0.18	1	25.0	E	100	PCE3632CT-ND	1.12	.72	.65	PCE3632TR-ND	1,000	286.00	EEV-TG1E101UP
	220	0.18	0.3	55.0	G	270	PCE3635CT-ND	1.30	.94	.86	PCE3635TR-ND	500	221.00	EEV-TG1E221P
	220	0.18	0.5	55.0	F	197	PCE3636CT-ND	1.25	.85	.77	PCE3636TR-ND	500	200.50	EEV-TG1E221UP
	330	0.18	0.3	82.5	G	270	PCE3639CT-ND	1.33	.96	.88	PCE3639TR-ND	500	226.00	EEV-TG1E331UP
35	33	0.16	1	11.55	E	100	PCE3686CT-ND	1.08	.70	.63	PCE3686TR-ND	1,000	277.00	EEV-TG1V330P
	47	0.16	0.5	16.45	F	197	PCE3688CT-ND	1.22	.83	.75	PCE3688TR-ND	500	195.30	EEV-TG1V470P
	47	0.16	1	16.45	E	100	PCE3689CT-ND	1.12	.72	.65	PCE3689TR-ND	1,000	286.00	EEV-TG1V470UP
	100	0.16	0.3	35.0	G	270	PCE3682CT-ND	1.30	.94	.86	PCE3682TR-ND	500	221.00	EEV-TG1V101P
	100	0.16	0.5	35.0	F	197	PCE3683CT-ND	1.25	.85	.77	PCE3683TR-ND	500	200.50	EEV-TG1V101UP
	220	0.16	0.3	77.0	G	270	PCE3685CT-ND	1.33	.96	.88	PCE3685TR-ND	500	226.00	EEV-TG1V221UP
50	10	0.14	1.6	5.0	E	80	PCE3644CT-ND	1.08	.70	.63	PCE3644TR-ND	1,000	277.00	EEV-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE3647CT-ND	1.08	.70	.63	PCE3647TR-ND	1,000	277.00	EEV-TG1H220P
	33	0.14	0.75	16.5	F	133	PCE3649CT-ND	1.22	.83	.75	PCE3649TR-ND	500	195.30	EEV-TG1H330P
	33	0.14	1.6	16.5	E	80	PCE3650CT-ND	1.12	.72	.65	PCE3650TR-ND	1,000	286.00	EEV-TG1H330UP
	47	0.14	0.5	23.5	G	221	PCE3652CT-ND	1.30	.94	.86	PCE3652TR-ND	500	221.00	EEV-TG1H470P
	47	0.14	0.75	23.5	F	133	PCE3653CT-ND	1.25	.85	.77	PCE3653TR-ND	500	200.50	EEV-TG1H470UP
	100	0.14	0.5	50.0	G	221	PCE3645CT-ND	1.33	.96	.88	PCE3645TR-ND	500	226.00	EEV-TG1H101UP
63	10	0.12	2.2	6.3	E	55	PCE3657CT-ND	1.08	.70	.63	PCE3657TR-ND	1,000	277.00	EEV-TG1J100P
	22	0.12	1	13.86	F	100	PCE3660CT-ND	1.22	.83	.75	PCE3660TR-ND	500	195.30	EEV-TG1J220P
	33	0.12	0.8	20.79	G	150	PCE3662CT-ND	1.30	.94	.86	PCE3662TR-ND	500	221.00	EEV-TG1J330P
	33	0.12	1	20.79	F	100	PCE3663CT-ND	1.25	.85	.77	PCE3663TR-ND	500	200.50	EEV-TG1J330UP
	47	0.12	0.8	29.61	G	150	PCE3665CT-ND	1.30	.94	.86	PCE3665TR-ND	500	221.00	EEV-TG1J470P
	47	0.12	1	29.61	F	100	PCE3666CT-ND	1.25	.85	.77	PCE3666TR-ND	500	200.50	EEV-TG1J470UP
	100	0.12	0.8	63.0	G	150	PCE3659CT-ND	1.33	.96	.88	PCE3659TR-ND	500	226.00	EEV-TG1J101UP
80	10	0.12	1.3	8.0	F	70	PCE3668CT-ND	1.22	.83	.75	PCE3668TR-ND	500	195.30	EEV-TG1K100P
	22	0.12	1	17.6	G	90	PCE3671CT-ND	1.30	.94	.86	PCE3671TR-ND	500	221.00	EEV-TG1K220P
	22	0.12	1.3	17.6	F	70	PCE3672CT-ND	1.25	.85	.77	PCE3672TR-ND	500	200.50	EEV-TG1K220UP
	33	0.12	1	26.4	G	90	PCE3675CT-ND	1.30	.94	.86	PCE3675TR-ND	500	221.00	EEV-TG1K330P
	33	0.12	1.3	26.4	F	70	PCE3676CT-ND	1.25	.85	.77	PCE3676TR-ND	500	200.50	EEV-TG1K330UP
	47	0.12	1	37.6	G	90	PCE3680CT-ND	1.33	.96	.88	PCE3680TR-ND	500	226.00	EEV-TG1K470UP
100	10	0.10	1.3	10.0	F	70	PCE3694CT-ND	1.22	.83	.75	PCE3694TR-ND	500	195.30	EEV-TG2A100P
	22	0.10	1	22.0	G	90	PCE3696CT-ND	1.30	.94	.86	PCE3696TR-ND	500	221.00	EEV-TG2A220P
	22	0.10	1.3	22.0	F	70	PCE3697CT-ND	1.25	.85	.77	PCE3697TR-ND	500	200.50	EEV-TG2A220UP
	33	0.10	1	33.0	G	90	PCE3699CT-ND	1.30	.94	.86	PCE3699TR-ND	500	221.00	EEV-TG2A330P

Panasonic® TK Series Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Specifications: • Category Temperature Range: -40°C ~ 125°C
• Rated Voltage: 10, 16, 25, 35 • Surge Voltage: 13, 20, 32, 44
• Capacitance Tolerance: ±20% (120Hz, 20°C)

Following specified values:

Impedance 120Hz	Working Voltage			
	10	16	25	35
Z(-25°C)/Z(20°C)	3	2	2	2
Z(-40°C)/Z(20°C)	4	3	3	3

Rated Voltage Mark	
A	10V
C	16V
E	25V
V	35V

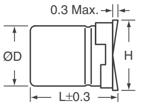

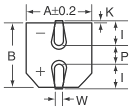

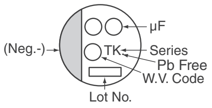

Size Code	Dimensions — mm							
	D	L	A, B	H	I	W	P	K
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90 ±0.2	3.1	0.70 ±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90 ±0.2	4.6	0.70 ±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan∂ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	ESR Ω Max. 100kHz		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
						20°C	-40°C		1	50	100			
TK Series: –40°C ~ 125°C Low ESR (3000 Hour Life)														
10	220	0.30	22.0	F	197	0.30	5.0	PCE3723CT-ND	1.39	.94	.86	PCE3723TR-ND	218.50	EEE-TK1A221P
	330	0.30	33.0	F	197	0.30	5.0	PCE3724CT-ND	1.39	.94	.86	PCE3724TR-ND	218.50	EEE-TK1A331UP
	330	0.30	33.0	G	270	0.20	3.0	PCE3725CT-ND	1.48	1.07	.98	PCE3725TR-ND	247.50	EEE-TK1A331P
	470	0.30	47.0	G	270	0.20	3.0	PCE3726CT-ND	1.48	1.07	.98	PCE3726TR-ND	247.50	EEE-TK1A471UP
16	100	0.23	16.0	F	197	0.30	5.0	PCE3727CT-ND	1.39	.94	.86	PCE3727TR-ND	218.50	EEE-TK1C101P
	220	0.23	35.2	F	197	0.30	5.0	PCE3728CT-ND	1.39	.94	.86	PCE3728TR-ND	218.50	EEE-TK1C221UP
	220	0.23	35.2	G	270	0.20	3.0	PCE3729CT-ND	1.48	1.07	.98	PCE3729TR-ND	247.50	EEE-TK1C221P
	330	0.23	52.8	G	270	0.20	3.0	PCE3730CT-ND	1.48	1.07	.98	PCE3730TR-ND	247.50	EEE-TK1C331UP
25	100	0.18	25.0	F	197	0.30	5.0	PCE3731CT-ND	1.39	.94	.86	PCE3731TR-ND	218.50	EEE-TK1E101P
	220	0.18	55.0	F	197	0.30	5.0	PCE3732CT-ND	1.39	.94	.86	PCE3732TR-ND	218.50	EEE-TK1E221UP
	220	0.18	55.0	G	270	0.20	3.0	PCE3733CT-ND	1.48	1.07	.98	PCE3733TR-ND	247.50	EEE-TK1E221P
	330	0.18	82.5	G	270	0.20	3.0	PCE3734CT-ND	1.48	1.07	.98	PCE3734TR-ND	247.50	EEE-TK1E331UP
35	47	0.16	16.4	F	197	0.30	5.0	PCE3735CT-ND	1.39	.94	.86	PCE3735TR-ND	218.50	EEE-TK1V470P
	100	0.16	35.0	F	197	0.30	5.0	PCE3736CT-ND	1.39	.94	.86	PCE3736TR-ND	218.50	EEE-TK1V101UP
	100	0.16	35.0	G	270	0.20	3.0	PCE3737CT-ND	1.48	1.07	.98	PCE3737TR-ND	247.50	EEE-TK1V101P
	220	0.16	77.0	G	270	0.20	3.0	PCE3738CT-ND	1.48	1.07	.98	PCE3738TR-ND	247.50	EEE-TK1V221UP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® TK Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°)

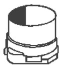

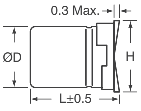

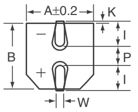

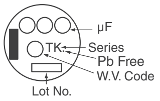

Specifications: • Category Temperature Range: -40°C ~ 125°C • Rated Voltage: 10, 16, 25, 35, 50, 63, 80, 100 • Surge Voltage: 13, 20, 32, 44, 63, 79, 100, 125 • Capacitance Tolerance: ±20% (120Hz, 20°C)

Following specified values:

Impedance 120Hz	Working Voltage 10	16	25	35	50	63	80	100
Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2	2
Z(-40°C)/Z(20°C)	6	4	4	3	3	3	3	3

Size Code	Dimensions — mm D	L	A, B	H	I	W	P	K
H13	12.5	13.5	13.5	15.0 Max.	4.7	0.90 ±0.3	4.4	0.70 ±0.3
J16	16	16.5	17.0	19.0 Max.	5.5	1.2 ±0.3	6.7	0.70 ±0.3
K16	18	16.5	19.0	21.0 Max.	6.7	1.2 ±0.3	6.7	0.70 ±0.3

Rated Voltage Mark	
A	10V
C	16V
E	25V
V	35V
H	50V
J	63V
K	80V
2A	100V

Rated W.V. (VDC)	Nom. Cap. (µF)	tan∂ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	ESR Ω Max. 100kHz		Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel		Panasonic Part No.
						20°C	-40°C		1	50		Qty.	Pricing	
TK Series: –40°C ~ 125°C Low ESR (3000 Hour Life)														
10	1000	0.30	100.0	H13	800	0.12	1.80	PCE4870CT-ND	2.39	1.73	PCE4870TR-ND	200	210.20	EEE-TK1A102AQ
	1500	0.30	150.0	H13	800	0.12	1.80	PCE4871CT-ND	2.45	1.77	PCE4871TR-ND	200	215.40	EEE-TKA152UAQ
	2200	0.32	220.0	J16	1100	0.08	1.20	PCE4872CT-ND	3.10	2.39	PCE4872TR-ND	125	193.75	EEE-TK1A222AM
	3300	0.34	330.0	J16	1100	0.08	1.20	PCE4873CT-ND	3.16	2.43	PCE4873TR-ND	125	197.25	EEE-TKA332UAM
	3300	0.36	330.0	K16	1300	0.075	1.10	PCE4874CT-ND	3.70	2.85	PCE4874TR-ND	125	231.13	EEE-TK1A332AM
	4700	0.38	470.0	K16	1300	0.075	1.10	PCE4876CT-ND	3.70	2.85	PCE4876TR-ND	125	231.13	EEE-TK1A472AM
16	330	0.23	52.8	H13	800	0.12	1.80	PCE4877CT-ND	2.39	1.73	PCE4877TR-ND	200	210.20	EEE-TK1C331AQ
	470	0.23	75.2	H13	800	0.12	1.80	PCE4878CT-ND	2.39	1.73	PCE4878TR-ND	200	210.20	EEE-TK1C471AQ
	680	0.23	108.8	H13	800	0.12	1.80	PCE4879CT-ND	2.39	1.73	PCE4879TR-ND	200	210.20	EEE-TK1C681AQ
	1000	0.23	160.0	H13	800	0.12	1.80	PCE4880CT-ND	2.45	1.77	PCE4880TR-ND	200	215.40	EEE-TKC102UAQ
	1000	0.25	160.0	J16	1100	0.08	1.20	PCE4881CT-ND	3.10	2.39	PCE4881TR-ND	125	193.75	EEE-TK1C102AM
	2200	0.27	352.0	J16	1100	0.08	1.20	PCE4882CT-ND	3.16	2.43	PCE4882TR-ND	125	197.25	EEE-TKC222UAM
	2200	0.27	352.0	K16	1300	0.075	1.10	PCE4883CT-ND	3.70	2.85	PCE4883TR-ND	125	231.13	EEE-TK1C222AM
	3300	0.29	528.0	K16	1300	0.075	1.10	PCE4884CT-ND	3.70	2.85	PCE4884TR-ND	125	231.13	EEE-TK1C332AM
25	330	0.18	82.5	H13	800	0.12	1.80	PCE4885CT-ND	2.39	1.73	PCE4885TR-ND	200	210.20	EEE-TK1E331AQ
	470	0.18	117.5	H13	800	0.12	1.80	PCE4886CT-ND	2.39	1.73	PCE4886TR-ND	200	210.20	EEE-TK1E471AQ
	680	0.18	170.0	H13	800	0.12	1.80	PCE4887CT-ND	2.45	1.77	PCE4887TR-ND	200	215.40	EEE-TKE681UAQ
	680	0.18	170.0	J16	1100	0.08	1.20	PCE4888CT-ND	3.10	2.39	PCE4888TR-ND	125	193.75	EEE-TK1E681AM
	1000	0.18	300.0	J16	1100	0.08	1.20	PCE4889CT-ND	3.16	2.43	PCE4889TR-ND	125	197.25	EEE-TKE102UAM
	1000	0.18	300.0	K16	1300	0.075	1.10	PCE4890CT-ND	3.70	2.85	PCE4890TR-ND	125	231.13	EEE-TK1E102AM
	2200	0.20	550.0	K16	1300	0.075	1.10	PCE4891CT-ND	3.70	2.85	PCE4891TR-ND	125	231.13	EEE-TK1E222AM
35	330	0.16	115.5	H13	800	0.12	1.80	PCE4892CT-ND	2.39	1.73	PCE4892TR-ND	200	210.20	EEE-TK1V331AQ
	470	0.16	164.5	H13	800	0.12	1.80	PCE4893CT-ND	2.45	1.77	PCE4893TR-ND	200	215.40	EEE-TKV471UAQ
	470	0.16	164.5	J16	1100	0.08	1.20	PCE4894CT-ND	3.10	2.39	PCE4894TR-ND	125	193.75	EEE-TK1V471AM
	680	0.16	238.0	J16	1100	0.08	1.20	PCE4895CT-ND	3.16	2.43	PCE4895TR-ND	125	197.25	EEE-TKV681UAM
	680	0.16	238.0	K16	1300	0.075	1.10	PCE4896CT-ND	3.70	2.85	PCE4896TR-ND	125	231.13	EEE-TK1V681AM
	1000	0.16	350.0	K16	1300	0.075	1.10	PCE4897CT-ND	3.70	2.85	PCE4897TR-ND	125	231.13	EEE-TK1V102AM
50	220	0.14	110.0	H13	600	0.23	3.40	PCE4898CT-ND	2.39	1.73	PCE4898TR-ND	200	210.20	EEE-TK1H221AQ
	330	0.14	165.0	H13	600	0.23	3.40	PCE4899CT-ND	2.39	1.73	PCE4899TR-ND	200	210.20	EEE-TK1H331AQ
	470	0.14	235.0	J16	900	0.15	2.20	PCE4900CT-ND	3.10	2.39	PCE4900TR-ND	125	193.75	EEE-TK1H471AM
	680	0.14	340.0	J16	900	0.15	2.20	PCE4901CT-ND	3.16	2.43	PCE4901TR-ND	125	197.25	EEE-TKH681UAM
	680	0.14	340.0	K16	950	0.14	2.10	PCE4902CT-ND	3.70	2.85	PCE4902TR-ND	125	231.13	EEE-TK1H681AM
	1000	0.14	500.0	K16	950	0.14	2.10	PCE4903CT-ND	3.70	2.85	PCE4903TR-ND	125	231.13	EEE-TK1H102AM
63	100	0.12	63.0	H13	350	0.26	5.20	PCE4904CT-ND	2.39	1.73	PCE4904TR-ND	200	210.20	EEE-TK1J101AQ
	220	0.12	138.6	H13	350	0.26	5.20	PCE4905CT-ND	2.39	1.73	PCE4905TR-ND	200	210.20	EEE-TK1J221AQ
	330	0.12	207.9	J16	500	0.18	3.60	PCE4906CT-ND	3.10	2.39	PCE4906TR-ND	125	193.75	EEE-TK1J331AM
	470	0.12	296.1	J16	500	0.18	3.60	PCE4907CT-ND	3.10	2.39	PCE4907TR-ND	125	193.75	EEE-TK1J471AM
80	47	0.12	37.6	H13	250	0.42	8.40	PCE4908CT-ND	2.39	1.73	PCE4908TR-ND	200	210.20	EEE-TK1K470AQ
	100	0.12	80.0	H13	250	0.42	8.40	PCE4909CT-ND	2.45	1.77	PCE4909TR-ND	200	215.40	EEE-TKK101UAQ
	100	0.12	80.0	J16	350	0.30	6.00	PCE4910CT-ND	3.10	2.39	PCE4910TR-ND	125	193.75	EEE-TK1K101AM
	220	0.12	176.0	J16	350	0.30	6.00	PCE4911CT-ND	3.16	2.43	PCE4911TR-ND	125	197.25	EEE-TKK221UAM
	220	0.12	176.0	K16	400	0.28	5.60	PCE4912CT-ND	3.70	2.85	PCE4912TR-ND	125	231.13	EEE-TK1K221AM
	330	0.12	264.0	J16	350	0.30	6.00	PCE4913CT-ND	3.16	2.43	PCE4913TR-ND	125	197.25	EEE-TKK331UAM
	330	0.12	264.0	K16	400	0.28	5.60	PCE4914CT-ND	3.70	2.85	PCE4914TR-ND	125	231.13	EEE-TK1K331AM
	470	0.12	376.0	K16	400	0.28	5.60	PCE4915CT-ND	3.70	2.85	PCE4915TR-ND	125	231.13	EEE-TK1K471AM
100	47	0.10	47.0	H13	250	0.42	8.40	PCE4916CT-ND	2.39	1.73	PCE4916TR-ND	200	210.20	EEE-TK2A470AQ
	100	0.10	100.0	J16	350	0.30	6.00	PCE4917CT-ND	3.10	2.39	PCE4917TR-ND	125	193.75	EEE-TK2A101AM
	220	0.10	220.0	K16	400	0.28	5.60	PCE4918CT-ND	3.70	2.85	PCE4918TR-ND	125	231.13	EEE-TK2A221AM
	330	0.10	330.0	K16	400	0.28	5.60	PCE4919CT-ND	3.70	2.85	PCE4919TR-ND	125	231.13	EEE-TK2A331AM

Panasonic® TP Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°)

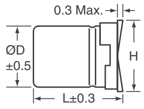

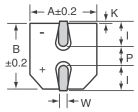

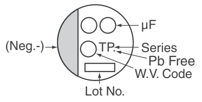

Specifications: • Category Temperature Range: -40°C ~ 125°C • Rated Voltage: 10, 16, 25, 35 • Surge Voltage: 13, 20, 32, 44 • Capacitance Tolerance: ±20% (120Hz, 20°C)

Following specified values:

Impedance 120Hz	Working Voltage 10	16	25	35
Z(-25°C)/Z(20°C)	3	2	2	2
Z(-40°C)/Z(20°C)	4	3	3	3

Rated Voltage Mark	
A	10V
C	16V
E	25V
V	35V

Size Code	Dimensions — mm D	L	A, B	H	I	W	P	K
D8	6.3	7.7	6.6	7.8 Max.	2.6	0.65 ±0.1	1.8	0.35 +0.15/-0.20
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90 ±0.2	3.1	0.70 ±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90 ±0.2	4.6	0.70 ±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan∂ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	Impedance @ 100kHz (Ω)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
						20°C	-40°C		1	50	100		Qty.	Pricing	
TP Series: –40°C ~ 125°C															
10	220	0.30	22.0	F	270	0.20	3.0	PCE4920CT-ND	1.34	.91	.83	PCE4920TR-ND	500	210.50	EEE-TP1A221AP
	330	0.30	33.0	F	270	0.20	3.0	PCE4921CT-ND	1.37	.93	.85	PCE4921TR-ND	500	216.00	EEE-TPA331UAP
	330	0.30	33.0	G	500	0.15	2.0	PCE4922CT-ND	1.43	1.03	.95	PCE4922TR-ND	500	238.00	EEE-TP1A331AP
	470	0.30	47.0	G	500	0.15	2.0	PCE4923CT-ND	1.43	1.03	.95	PCE4923TR-ND	500	238.00	EEE-TP1A471AP
16	100	0.23	16.0	D8	197	0.45	5.0	PCE4924CT-ND	.87	.56	.50	PCE4924TR-ND	900	208.80	EEE-TPC101XAP
	100	0.23	16.0	F	270	0.20	3.0	PCE4925CT-ND	1.34	.91	.83	PCE4925TR-ND	500	210.50	EEE-TP1C101AP
	220	0.23	35.2	F	270	0.20	3.0	PCE4926CT-ND	1.34	.91	.83	PCE4926TR-ND	500	210.50	EEE-TP1C221AP
	330	0.23	52.8	G	500	0.15	2.0	PCE4927CT-ND	1.43	1.03	.95	PCE4927TR-ND	500	238.00	EEE-TP1C331AP
	470	0.23	75.2	G	500	0.15	2.0	PCE4928CT-ND	1.43	1.03	.95	PCE4928TR-ND	500	238.00	EEE-TP1C471AP
25	100	0.18	25.0	F	270	0.20	3.0	PCE4929CT-ND	1.34	.91	.83	PCE4929TR-ND	500	210.50	EEE-TP1E101AP
	220	0.18	55.0	G	500	0.15	2.0	PCE4930CT-ND	1.43	1.03	.95	PCE4930TR-ND	500	238.00	EEE-TP1E221AP
	330	0.18	82.5	G	500	0.15	2.0	PCE4931CT-ND	1.43	1.03	.95	PCE4931TR-ND	500	238.00	EEE-TP1E331AP
35	47	0.16	16.5	D8	197	0.45	5.0	PCE4932CT-ND	.87	.56	.50	PCE4932TR-ND	900	208.80	EEE-TPV470XAP
	47	0.16	16.5	F	270	0.20	3.0	PCE4933CT-ND	1.34	.91	.83	PCE4933TR-ND	500	210.50	EEE-TP1V470AP
	100	0.16	35.0	F	270	0.20	3.0	PCE4934CT-ND	1.34	.91	.83	PCE4934TR-ND	500	210.50	EEE-TP1V101AP
	220	0.16	77.0	G	500	0.15	2.0	PCE4935CT-ND	1.43	1.03	.95	PCE4935TR-ND	500	238.00	EEE-TP1V221AP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® SP-Cap Specialty Polymer Capacitor

Specialty Polymer Aluminum Electrolytic Capacitors Kit

CD, CX, SL and SX Series - 15 each of 9 popular values (135 total pieces). Includes the following values: 220µF 4V, 330µF 2V, 150µF 6.3, 39µF 10V, 470µF 2V, 220µF 4V, 220µF 2V, 120µF 2V SP-Cap is an SMT aluminum electrolytic capacitor that uses a conductive polymer as the electrolyte material. SP-Caps are primarily used as input and output capacitors for DC to DC converters due to the excellent ultra low ESR values. The SP-Cap line up offers excellent price/performance for moderate to high CV (Capacitance x Voltage) values, very low ESR/impedance, high ripple current and high frequency performance.

SP4-KIT-ND ***Digi-Key®*** **$34.99**

Panasonic® SP-Cap Specialty Polymer Capacitor

CX Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

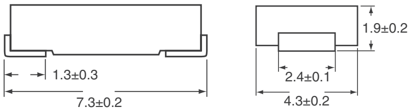

Code	Item
A	Polarity Bar (Positive)
B	W.V. Code
C	Capacitance
D	Lot No.

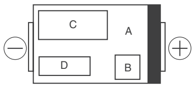

Continuing the tradition of providing ultra low ESR solutions, in the Panasonic SP-Cap family, Panasonic has developed the CX Series. The CX series has a higher CV packing density which allows for better price performance. It also has a very good noise absorption properties, and is an excellent choice for input and output capacitor for DC-DC converters. Can withstand 260°C temperature.

Specifications:

- Category Temperature Range: -40°C ~ 105°C
- Rated Voltage: 2V ~ 6.3V
- Capacitance: 100µF ~ 470µF (120Hz, 20°C)
- Capacitance Tolerance: ±20% (120Hz, 20°C)

Rated W.V. (VDC)	Surge (VDC)	Nom. Cap. (µF)	tan∂ Max.	Leakage Current Max. (µA)	ESR (Ω) 100kHz/20°C Maximum	Ripple Current (100KHz/20°C~105°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	250	Digi-Key Part No.	Tape & Reel Pricing 3,500	Panasonic Part No.
2	2.5	220	0.06	44.0	0.015	2.7	PCE4274CT-ND	1.74	1.26	1.16	1.02	PCE4274TR-ND	467.00/M	EEF-CX0D221R
	2.5	270	0.06	54.0	0.012	3.0	PCE4936CT-ND	1.90	1.37	1.26	1.11	PCE4936TR-ND	533.00/M	EEF-CX0D271XR
	2.5	330	0.06	66.0	0.015	2.7	PCE4275CT-ND	1.92	1.39	1.27	1.12	PCE4275TR-ND	515.00/M	EEF-CX0D331R
	2.5	390	0.06	78.0	0.015	2.7	PCE4812CT-ND	2.31	1.67	1.53	1.34	PCE4812TR-ND	619.00/M	EEF-CX0D391R
	2.5	470	0.06	94.0	0.015	2.7	PCE4813CT-ND	2.31	1.67	1.53	1.34	PCE4813TR-ND	619.00/M	EEF-CX0D471R
2.5	3.1	220	0.06	55.0	0.015	2.7	PCE4276CT-ND	1.92	1.39	1.27	1.12	PCE4276TR-ND	515.00/M	EEF-CX0E221R
	3.1	330	0.06	82.5	0.015	2.7	PCE4814CT-ND	1.92	1.39	1.27	1.12	PCE4814TR-ND	515.00/M	EEF-CX0E331R
	3.1	330	0.06	82.5	0.015	3.0	PCE4937CT-ND	2.00	1.45	1.33	1.17	PCE4937TR-ND	561.00/M	EEF-CX0E331XR
	3.1	390	0.06	97.5	0.015	2.7	PCE4815CT-ND	2.31	1.67	1.53	1.34	PCE4815TR-ND	619.00/M	EEF-CX0E391R
4	5	150	0.06	60.0	0.015	2.7	PCE4277CT-ND	1.74	1.26	1.16	1.02	PCE4277TR-ND	467.00/M	EEF-CX0G151R
	5	180	0.06	72.0	0.015	3.0	PCE4938CT-ND	2.00	1.45	1.33	1.17	PCE4938TR-ND	561.00/M	EEF-CX0G181XR
	5	220	0.06	88.0	0.015	2.7	PCE4816CT-ND	2.31	1.67	1.53	1.34	PCE4816TR-ND	619.00/M	EEF-CX0G221R
	5	220	0.06	88.0	0.015	3.0	PCE4939CT-ND	2.36	1.70	1.56	1.37	PCE4939TR-ND	661.00/M	EEF-CX0G221XR
6.3	8	100	0.06	63.0	0.015	2.7	PCE4278CT-ND	1.92	1.39	1.27	1.12	PCE4278TR-ND	515.00/M	EEF-CX0J101R
	8	120	0.06	75.6	0.015	2.7	PCE4817CT-ND	2.31	1.67	1.53	1.34	PCE4817TR-ND	619.00/M	EEF-CX0J121R
	8	150	0.06	94.5	0.015	2.7	PCE4989CT-ND	2.41	1.74	1.60	1.40	PCE4989TR-ND	647.00/M	EEF-CX0J151R
	8	150	0.06	94.5	0.015	3.0	PCE4940CT-ND	2.05	1.58	1.51	1.41	PCE4940TR-ND	676.00/M	EEF-CX0J151XR

Panasonic® SP-Cap Specialty Polymer Capacitor

CD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features:

• Low profile type (1.8mm Height) of D size • Low impedance at high frequency (10kHz ~ 10MHz) as low as ceramic capacitors (reduced ESR due to an applying speciality polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to adoption of solid electrolyte

Specifications:

• Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz/20°C) • DC Leakage Current: Reflow 240°C: 1≤ 0.06CV 2 minutes (2VDC ~ 4VDC); I≤ 0.04CV or 3µA 2 minutes (6.3VDC ~ 16VDC, whichever is greater) Reflow 260°C: 1≤ 0.1CV 2 minutes • Dissipation Factor: ≤0.06 (120Hz/20°C) • Surge Voltage: Rated Working Voltage x 1.25 • Endurance: After applying rated working voltage for 1000 hours at 105°C, ±2°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance change (±10% of initial measured value) DF and DC leakage current (≤initial specified value) • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change of initial measured value, (2VDC, 2.5VDC: +70%, -20%), (4VDC: +60%, -20%), (6.3VDC: +50%, -20%), (8VDC ~ 16VDC: +40, -20%). DF ≤200% initial specified value. DC leakage current (≤initial specified value).

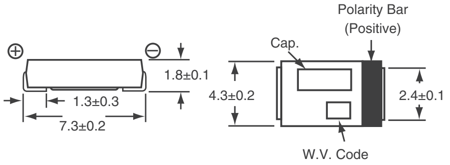

W.V.	Cap. (µF)	ESR (Ω) (100kHz/ 20°C)	Ripple Current (100kHz/20°C~105°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape & Reel‡ Pricing 3,500	Panasonic Part No.
2.0	100	0.018	2.5	PCE3271CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0D101R
	120	0.018	2.5	PCE2107CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0D121R
	150	0.018	2.5	PCE3561CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0D151R
	180	0.018	2.5	PCE4453CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0D181ER
	220	0.018	2.5	PCE4447CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0D221R
	220	0.018	2.5	PCE4454CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0D221ER
2.5	82	0.018	2.5	PCE3272CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0E820R
	100	0.018	2.5	PCE2108CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0E101R
	120	0.018	2.5	PCE3562CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0E121R
	150	0.018	2.5	PCE4448CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0E151R
	150	0.018	2.5	PCE4455CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0E151ER
4.0	56	0.018	2.5	PCE3274CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0G560R
	68	0.018	2.5	PCE3977CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0G680R
	82	0.018	2.5	PCE2109CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0G820R
	100	0.025	2.5	PCE3605CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0G101R
	100	0.025	2.5	PCE4456CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0G101ER
6.3	10	0.055	1.4	PCE3157CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0J100R
	22	0.040	1.6	PCE3158CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0J220R
	33	0.028	2.0	PCE3159CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0J330R
	47	0.018	2.5	PCE3160CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0J470R
	68	0.018	2.5	PCE2110CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0J680R
	68	0.018	2.5	PCE4457CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0J680ER
8.0	8.2	0.055	1.4	PCE3161CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0K8R2R
	15	0.040	1.6	PCE3162CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0K150R
	22	0.028	1.8	PCE3163CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0K220R
	33	0.018	2.5	PCE3164CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD0K330R
	47	0.025	1.8	PCE3606CT-ND	1.82	1.31	1.20	487.00/M	EEF-CD0K470R
	47	0.025	1.8	PCE4458CT-ND†	1.91	1.38	1.26	511.00/M	EEF-CD0K470ER
10	22	0.030	1.6	PCE4941CT-ND	1.68	1.22	1.12	467.00/M	EEF-CD1A220ER
	33	0.025	1.8	PCE4942CT-ND	1.68	1.22	1.12	467.00/M	EEF-CD1A330ER
	39	0.025	1.8	PCE4943CT-ND	1.74	1.26	1.16	490.00/M	EEF-CD1A390ER
12.5	4.7	0.080	1	PCE3165CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1B4R7R
	10	0.060	1	PCE3166CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1B100R
	15	0.050	1.3	PCE3167CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1B150R
	22	0.030	1.6	PCE3168CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1B220R
16.0	2.2	0.110	1	PCE3169CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1C2R2R
	4.7	0.080	1	PCE3170CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1C4R7R
	6.8	0.070	1	PCE3171CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1C6R8R
	8.2	0.045	1.3	PCE3172CT-ND	1.65	1.19	1.09	442.00/M	EEF-CD1C8R2R

‡ For Tape and Reel Part Number, change CT-ND to TR-ND. † 260°C Reflow

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Panasonic® SP-Cap Specialty Polymer Capacitor

FD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Low profile type (1.1mm Height) • Low impedance at high frequency (10kHz ~ 10MHz) as low as ceramic capacitors (reduced ESR due to applying specialty polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method avail.) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance character due to adoption of solid electrolyte

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: 20% (120Hz/ 20°C) • DC Leakage Current: I ≤ 0.04CV or 3 (µA) after 2 minutes (whichever is the greater) (2 W.V. ~ 4 W.V.: I ≤ 0.06CV) • Dissipation Factor: ≤0.06 (120Hz/20°C) • Surge Voltage: Rated Working Voltage x 1.25 (15°C ~ 35°C) • Endurance: After applying rated working voltage for 1000 hours at 105 ±2°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance change (±10% of initial measured value). tan (≤initial specified value). DC leakage current (≤initial specified value) • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change +40%, -20% of initial measured value (4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%). D.F.≤200% initial specified value. DC leakage current (≤initial specified value).

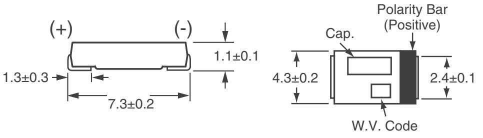

W.V.	Cap. (µF)	Impedance (400kHz/ 20°C)	Ripple Current (100kHz/20°C~105°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Pricing 3,500	Panasonic Part No.
2	68	0.035Ω	2.0	PCE2105CT-ND	2.05	1.48	1.36	PCE2105TR-ND	575.00/M	EEF-FD0D680R
2.5	56	0.035Ω	2.0	PCE2106CT-ND	2.05	1.48	1.36	PCE2106TR-ND	575.00/M	EEF-FD0E560R
4	39	0.035Ω	2.0	PCE3451CT-ND	2.05	1.48	1.36	PCE3451TR-ND	575.00/M	EEF-FD0G390R
6.3	33	0.035Ω	2.0	PCE3452CT-ND	2.05	1.48	1.36	PCE3452TR-ND	575.00/M	EEF-FD0J330R
8	22	0.035Ω	2.0	PCE3453CT-ND	2.05	1.48	1.36	PCE3453TR-ND	575.00/M	EEF-FD0K220R

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® SP-Cap Specialty Polymer Capacitor UD/UE Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Features: • Low impedance at high frequency (10kHz ~ 10MHz) as low as ceramic capacitors (Reduced ESR due to applying speciality polymer with high conductivity) • Stable temperature characteristics: capacitance, impedance and ESR • Excellent noise-absorbent characteristics • Voltage derating not necessary • Excellent endurance characteristics due to adoption of solid electrolyte **Specifications:** • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** 2V ~ 4V I≤ 0.06CV, 6.3V ~ 8V I≤ 0.04CV after 2 minutes • **Dissipation Factor:** ≤0.1 maximum • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value). DF (initial specified value). DC leakage current (initial specified value). • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change: (*2V, 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, *8V:* +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

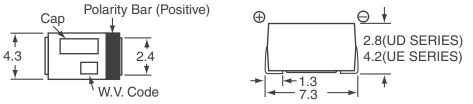

W.V. (VDC)	Cap. (µF)	ESR (Ω) (100kHz/ 20°C) Max	Ripple Current (100kHz/ 20°C ~ 105°C) (Arms)	Digi-Key Part No.	Price Each 1	50	100	Tape and Reel‡ Pricing 2,000	Panasonic Part No.
				UD Series					
2.0	180	0.015	3.0	PCE3262CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0D181R
	220	0.015	3.0	PCE3973CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0D221R
	270	0.015	3.0	PCE2111CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0D271R
	270	0.009	3.4	PCE4269CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0D271LR
	270	0.009	3.4	PCE4486CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0D271LE
	330	0.015	3.0	PCE3563CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0D331R
	330	0.009	3.4	PCE4270CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0D331LR
	330	0.009	3.4	PCE4487CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0D331LE
	390	0.009	3.0	PCE4282CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0D391R
	390	0.015	3.0	PCE4488CT-ND†	2.77	2.13	2.03	873.00/M	EEF-UD0D391ER
	390	0.009	3.4	PCE4450CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0D391LR
	390	0.009	3.4	PCE4489CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0D391LE
	470	0.009	3.4	PCE4272CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0D471LR
	470	0.009	3.4	PCE4490CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0D471LE
2.5	150	0.015	3.0	PCE3273CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0E151R
	180	0.015	3.0	PCE3974CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0E181R
	220	0.015	3.0	PCE2112CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0E221R
	220	0.009	3.4	PCE4265CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0E221LR
	220	0.009	3.4	PCE4491CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0E221LE
	270	0.015	3.0	PCE3564CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0E271R
	270	0.009	3.4	PCE4268CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0E271LR
	270	0.009	3.4	PCE4492CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0E271LE
	330	0.009	3.4	PCE4283CT-ND	3.20	2.46	2.35	1021.00/M	EEF-UD0E331R
4.0	120	0.015	3.0	PCE3263CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0G121R
	150	0.015	3.0	PCE2113CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0G151R
	150	0.009	3.4	PCE4267CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0G151LR
	150	0.009	3.4	PCE4493CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0G151LE
	180	0.018	2.5	PCE3599CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0G181R
	180	0.009	3.4	PCE4271CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0G181LR
	180	0.009	3.4	PCE4494CT-ND†	2.91	2.24	2.13	916.00/M	EEF-UD0G181LE
6.3	100	0.015	3.0	PCE3264CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0J101R
	120	0.015	3.0	PCE2114CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0J121R
	120	0.009	3.4	PCE4266CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0J121LR
	150	0.018	2.5	PCE3600CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0J151R
	150	0.009	3.4	PCE4273CT-ND	2.77	2.13	2.03	873.00/M	EEF-UD0J151LR
8.0	68	0.015	3.0	PCE3265CT-ND	2.40	1.85	1.76	755.00/M	EEF-UD0K680R
	100	0.018	2.5	PCE3601CT-ND	2.64	2.03	1.94	832.00/M	EEF-UD0K101R
	100	0.018	2.5	PCE4495CT-ND†	2.77	2.13	2.03	873.00/M	EEF-UD0K101ER
				UE Series					
2.0	270	0.012	3.3	PCE3266CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0D271R
	330	0.012	3.3	PCE3975CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0D331R
	390	0.012	3.3	PCE2115CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0D391R
	390	0.007	3.7	PCE4257CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0D391LR
	390	0.007	3.7	PCE4496CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0D391LE
	470	0.012	3.3	PCE3567CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0D471R
	470	0.007	3.7	PCE4258CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0D471LR
	470	0.007	3.7	PCE4497CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0D471LE
	560	0.007	3.3	PCE4284CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0D561R
	560	0.007	3.7	PCE4256CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0D561LR
	560	0.012	3.3	PCE4498CT-ND†	3.65	3.05	2.95	1320.00/M	EEF-UE0D561ER
	560	0.007	3.7	PCE4499CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0D561LE
2.5	220	0.012	3.3	PCE3267CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0E221R
	270	0.012	3.3	PCE3976CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0E271R
	330	0.012	3.3	PCE2116CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0E331R
	330	0.007	3.7	PCE4259CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0E331LR
	330	0.007	3.7	PCE4500CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0E331LE
	390	0.012	3.3	PCE3568CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0E391R
	390	0.007	3.7	PCE4261CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0E391LR
	390	0.007	3.7	PCE4501CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0E391LE
	470	0.007	3.7	PCE4451CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0E471LR
	470	0.012	3.3	PCE4452CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0E471R
	470	0.012	3.3	PCE4502CT-ND†	3.65	3.05	2.95	1320.00/M	EEF-UE0E471ER
	470	0.007	3.7	PCE4503CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0E471LE
4.0	180	0.012	3.3	PCE3268CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0G181R
	220	0.012	3.3	PCE2117CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0G221R
	220	0.007	3.7	PCE4260CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0G221LR
	220	0.007	3.7	PCE4504CT-ND†	3.84	3.21	3.10	1387.00/M	EEF-UE0G221LE
	270	0.015	3.3	PCE3602CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0G271R
	270	0.007	3.7	PCE4264CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0G271LR
	330	0.007	3.3	PCE4285CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0G331R
	330	0.012	3.3	PCE4505CT-ND†	3.65	3.05	2.95	1320.00/M	EEF-UE0G331ER
6.3	150	0.012	3.3	PCE3269CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0J151R
	150	0.012	3.3	PCE4506CT-ND†	3.78	2.91	2.77	1246.00/M	EEF-UE0J151ER
	180	0.012	3.3	PCE2118CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0J181R
	180	0.007	3.7	PCE4262CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0J181LR
	220	0.015	3.0	PCE3603CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0J221R
	220	0.007	3.7	PCE4263CT-ND	3.65	3.05	2.95	1320.00/M	EEF-UE0J221LR
	220	0.015	3.0	PCE4507CT-ND†	3.65	3.05	2.95	1320.00/M	EEF-UE0J221ER
8.0	100	0.012	3.3	PCE3270CT-ND	3.60	2.77	2.64	1186.00/M	EEF-UE0K101R
	150	0.015	3.0	PCE3604CT-ND	3.96	3.05	2.91	1305.00/M	EEF-UE0K151R
	150	0.015	3.0	PCE4508CT-ND†	3.65	3.05	2.95	1320.00/M	EEF-UE0K151ER

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Features: • Lower ESR • Higher Ripple Current

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** Reflow 240°C: (2VDC ~ 4VDC) I≤ 0.06CV after 2 minutes, (6.3VDC) I≤ 0.04CV after 2 minutes; Reflow 260°C: I≤ 0.1CV after 2 minutes • **Dissipation Factor:** 0.06 maximum (SL/SX), 0.10 maximum (SD/SE) (120Hz/20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 (15°C ~ 35°C) • **Endurance:** After applying rated working voltage for 1,000 hours at 105 ±2°C, and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F. and DC leakage current are ≤ Initial specified value • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change: (2 VDC/2.5VDC.: +70%, -20%; 4VDC: +60%, -20%; 6.3VDC: +50%, -20%, of initial measured value). DF ≤200% initial specified value. DC leakage current ≤ initial specified value.

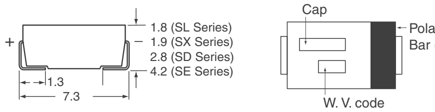

W.V.	Cap. (µF)	ESR (Ω) (100KHz / 20°C)	Ripple Current (100KHz / 105°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
				SL Series						
2	100	0.009	3.0	PCE3978CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0D101R
	100	0.009	3.0	PCE4471CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0D101ER
	120	0.009	3.0	PCE3551CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0D121R
	120	0.009	3.0	PCE4472CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0D121ER
	150	0.009	3.0	PCE3552CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0D151R
	150	0.009	3.0	PCE4473CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0D151ER
	180	0.009	3.0	PCE3702CT-ND	2.18	1.58	1.45	3,500	611.00/M	EEF-SL0D181R
	180	0.009	3.0	PCE4474CT-ND†	2.29	1.65	1.52	3,500	641.00/M	EEF-SL0D181ER
2.5	100	0.009	3.0	PCE3553CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0E101R
	100	0.009	3.0	PCE4475CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0E101ER
	120	0.009	3.0	PCE3554CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0E121R
	120	0.009	3.0	PCE4476CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0E121ER
	150	0.009	3.0	PCE4449CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0E151R
2.5	150	0.009	3.0	PCE4477CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0E151ER
4	82	0.009	3.0	PCE3555CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0G820R
	82	0.009	3.0	PCE4478CT-ND†	2.08	1.51	1.38	3,500	584.00/M	EEF-SL0G820ER
6.3	56	0.009	3.0	PCE3556CT-ND	1.99	1.43	1.32	3,500	556.00/M	EEF-SL0J560R
				SX Series						
2	180	0.009	3.0	PCE3557CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0D181R
	220	0.009	3.0	PCE3703CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0D221R
	220	0.009	3.0	PCE4479CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0D221ER
	270	0.009	3.0	PCE4280CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0D271R
	270	0.009	3.0	PCE4480CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0D271ER
	270	0.006	3.5	PCE4996CT-ND†✔	2.09	1.51	1.38	3,500	584.00/M	EEF-SX0D271XE
	270	0.0045	3.8	PCE4994CT-ND†✔	2.70	2.08	1.98	3,500	890.00/M	EEF-SX0D271E4

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND. ✔ ***NEW!***

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Panasonic® SP-Cap Specialty Polymer Capacitor

S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type *(Cont.)*

Digi-Reel®

W.V.	Cap. (µF)	ESR (Ω) (100KHz / 20°C)	Ripple Current (100KHz / 105°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
2	330	0.009	3.0	PCE4281CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0D331R
	330	0.009	3.0	PCE4481CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0D331ER
	330	0.006	3.5	PCE4818CT-ND	1.63	1.25	1.19	3,500	535.00/M	EEF-SX0D331XR
	330	0.006	3.5	PCE4990CT-ND†	1.71	1.32	1.26	3,500	563.00/M	EEF-SX0D331XE
	330	0.0045	3.5	PCE4993CT-ND†✔	2.70	2.08	1.98	3,500	890.00/M	EEF-SX0D331E4
	390	0.009	3.0	PCE4820CT-ND	1.72	1.33	1.26	3,500	567.00/M	EEF-SX0D391R
	390	0.009	3.0	PCE4819CT-ND†	1.83	1.41	1.34	3,500	602.00/M	EEF-SX0D391ER
	390	0.006	3.5	PCE4997CT-ND†✔	2.34	1.69	1.55	3,500	655.00/M	EEF-SX0D391XE
	390	0.0045	3.8	PCE4995CT-ND†✔	2.95	2.27	2.16	3,500	970.00/M	EEF-SX0D391E4
	470	0.009	3.0	PCE4822CT-ND	1.87	1.44	1.37	3,500	616.00/M	EEF-SX0D471R
	470	0.009	3.0	PCE4821CT-ND†	1.94	1.50	1.42	3,500	639.00/M	EEF-SX0D471ER
	470	0.006	3.5	PCE4823CT-ND†	2.04	1.57	1.50	3,500	672.00/M	EEF-S X0D471XE
	470	0.006	3.5	PCE4824CT-ND	1.97	1.52	1.44	3,500	648.00/M	EEF-SX0D471XR
	470	0.0045	3.8	PCE4992CT-ND†✔	3.13	2.41	2.29	3,500	1029.00/M	EEF-SX0D471E4
2.5	150	0.009	3.0	PCE3558CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0E151R
	150	0.009	3.0	PCE4482CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0E151ER
	180	0.009	3.0	PCE3979CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0E181R
	180	0.009	3.0	PCE4483CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0E181ER
	220	0.009	3.0	PCE4826CT-ND	1.56	1.21	1.15	3,500	514.00/M	EEF-SX0E221R
	220	0.009	3.0	PCE4825CT-ND†	1.64	1.27	1.21	3,500	541.00/M	EEF-SX0E221ER
	220	0.007	3.5	PCE4998CT-ND†✔	2.10	1.51	1.39	3,500	587.00/M	EEF-SX0E221E7
	270	0.007	3.5	PCE4999CT-ND†✔	2.22	1.60	1.47	3,500	620.00/M	EEF-SX0E271E7
	330	0.009	3.0	PCE4828CT-ND	1.72	1.33	1.26	3,500	567.00/M	EEF-SX0E331R
	330	0.009	3.0	PCE4827CT-ND†	1.83	1.41	1.34	3,500	602.00/M	EEF-SX0E331ER
	330	0.006	3.5	PCE4829CT-ND†	1.92	1.48	1.41	3,500	632.00/M	EEF-SX0E331XE
	330	0.006	3.5	PCE4830CT-ND	1.80	1.39	1.32	3,500	593.00/M	EEF-SX0E331XR
	390	0.009	3.0	PCE4832CT-ND	1.87	1.44	1.37	3,500	616.00/M	EEF-SX0E391R
	390	0.009	3.0	PCE4831CT-ND†	1.94	1.50	1.42	3,500	639.00/M	EEF-SX0E391ER
	390	0.006	3.5	PCE4833CT-ND†	2.04	1.57	1.50	3,500	672.00/M	EEF-SX0E391XE
	390	0.006	3.5	PCE4834CT-ND	1.97	1.52	1.44	3,500	648.00/M	EEF-SX0E391XR
4	82	0.009	3.0	PCE3980CT-ND	1.91	1.47	1.40	3,500	629.00/M	EEF-SX0G820R
	82	0.009	3.0	PCE4485CT-ND†	2.01	1.55	1.47	3,500	661.00/M	EEF-SX0G820ER
	100	0.009	3.0	PCE3559CT-ND	1.91	1.47	1.40	3,500	629.00/M	EEF-SX0G101R
	100	0.009	3.0	PCE4484CT-ND†	2.01	1.55	1.47	3,500	661.00/M	EEF-SX0G101ER
4	150	0.009	3.0	PCE4835CT-ND†	2.01	1.55	1.47	3,500	661.00/M	EEF-SX0G151ER
	150	0.007	3.5	PCE5000CT-ND†✔	2.10	1.62	1.54	3,500	691.00/M	EEF-SX0G151E7
	180	0.009	3.0	PCE5001CT-ND†✔	2.23	1.72	1.63	3,500	733.00/M	EEF-SX0G181ER
	220	0.009	3.0	PCE4991CT-ND†	2.64	2.03	1.94	3,500	869.00/M	EEF-SX0G221ER
6.3	68	0.009	3.0	PCE3560CT-ND	2.04	1.57	1.50	3,500	673.00/M	EEF-SX0J680R
	120	0.007	3.5	PCE5002CT-ND†✔	2.33	1.80	1.71	3,500	768.00/M	EEF-SX0J121E7
	150	0.009	3.0	PCE4988CT-ND†	2.72	2.10	2.00	3,500	897.00/M	EEF-SX0J151ER
				SD Series						
2	270	0.007	3.5	PCE3539CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0D271R
	270	0.007	3.5	PCE4459CT-ND†	2.61	2.01	1.91	2,000	1105.00/M	EEF-SD0D271ER
	330	0.007	3.5	PCE3540CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0D331R
	330	0.007	3.5	PCE4460CT-ND†	2.61	2.01	1.91	2,000	1105.00/M	EEF-SD0D331ER
	390	0.007	3.5	PCE3704CT-ND	2.73	2.10	2.00	2,000	1157.00/M	EEF-SD0D391R
2.5	220	0.007	3.5	PCE3541CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0E221R
	220	0.007	3.5	PCE4462CT-ND†	2.61	2.01	1.91	2,000	1105.00/M	EEF-SD0E221ER
	270	0.007	3.5	PCE3542CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0E271R
	270	0.007	3.5	PCE4463CT-ND†	2.61	2.01	1.91	2,000	1105.00/M	EEF-SD0E271ER
4	150	0.007	3.5	PCE3543CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0G151R
	150	0.007	3.5	PCE4464CT-ND†	2.61	2.01	1.69	2,000	1105.00/M	EEF-SD0G151ER
6.3	120	0.007	3.5	PCE3544CT-ND	2.48	1.91	1.82	2,000	1052.00/M	EEF-SD0J121R
				SE Series						
2	390	0.005	4.0	PCE3545CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0D391R
	390	0.005	4.0	PCE4465CT-ND†	3.99	3.33	3.22	2,000	1439.00/M	EEF-SE0D391ER
	470	0.005	4.0	PCE3546CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0D471R
	470	0.005	4.0	PCE4466CT-ND†	3.99	3.33	3.22	2,000	1439.00/M	EEF-SE0D471ER
	560	0.005	4.0	PCE3705CT-ND	4.18	3.49	3.37	2,000	1509.00/M	EEF-SE0D561R
	560	0.005	4.0	PCE4467CT-ND†	4.22	3.52	3.40	2,000	1524.00/M	EEF-SE0D561ER
2.5	330	0.005	4.0	PCE3547CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0E331R
	330	0.005	4.0	PCE4468CT-ND†	3.99	3.33	3.22	2,000	1439.00/M	EEF-SE0E331ER
	390	0.005	4.0	PCE3548CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0E391R
	390	0.005	4.0	PCE4469CT-ND†	3.99	3.33	3.22	2,000	1439.00/M	EEF-SE0E391ER
	470	0.005	4.0	PCE4279CT-ND	4.34	3.62	3.50	2,000	1567.00/M	EEF-SE0E471R
4	220	0.005	4.0	PCE3549CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0G221R
	220	0.005	4.0	PCE4470CT-ND†	3.99	3.33	3.22	2,000	1439.00/M	EEF-SE0G221ER
6.3	180	0.005	4.0	PCE3550CT-ND	3.80	3.17	3.06	2,000	1371.00/M	EEF-SE0J181R

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND. ✔ ***NEW!***

Panasonic® SP-Cap Specialty Polymer Capacitor

H Series Specialty Polymer Aluminum Electrolytic Chip Capacitors Surface Mount Type

Digi-Reel®

Features:

- High Reliability (125°C) • Low ESR and High Ripple Current

Specifications:

• **Operating Temperature Range:** -40°C ~ 125°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** I≤ 0.1CV after 2 minutes • **Dissipation Factor:** 0.1 max (120Hz/20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 (15°C ~ 35°C) • **Endurance:** After applying rated working voltage for 1,000 hours or derated voltage (working voltage x 0.875 at 115°C or working voltage x 0.75 at 125°C) and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F. ≤ Initial specified value • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change (2V / 2.5V: +70%, -20%, 4V: +60%, -20%, 6.3V: +50%, -20%, 8V: +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

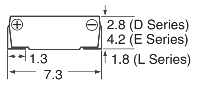

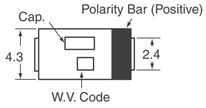

W.V.	Cap. (µF)	ESR (Ω) (100KHz/ 20°C)	Ripple Current (100KHz/ 125°C) (Arms)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
				HD Series						
2	180	.015	2.5	PCE2119CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0D181R
2	220	.015	2.5	PCE3529CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0D221R
2.5	150	.015	2.5	PCE2120CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0E151R
2.5	180	.015	2.5	PCE3530CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0E181R
4	120	.015	2.5	PCE2121CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0G121R
6.3	100	.015	2.5	PCE2122CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0J101R
8	68	.015	2.5	PCE2123CT-ND	2.64	2.03	1.94	2,000	869.00/M	EEF-HD0K680R
				HE Series						
2	270	.012	3.0	PCE2124CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0D271R
2	330	.012	3.0	PCE3531CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0D331R
2.5	220	.012	3.0	PCE2125CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0E221R
2.5	270	.012	3.0	PCE3532CT-ND	3.94	3.29	3.18	2,000	1424.00/M	EEF-HE0E271R
4	180	.012	3.0	PCE2126CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0G181R
6.3	150	.012	3.0	PCE2127CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0J151R
8	100	.012	3.0	PCE2128CT-ND	3.96	3.05	2.91	2,000	1305.00/M	EEF-HE0K101R
				HL Series						
2	100	.018	1.8	PCE3533CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0D101R
2.5	82	.018	1.8	PCE3534CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0E820R
4	56	.018	1.8	PCE3535CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0G560R
4	68	.018	1.8	PCE3536CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0G680R
6.3	47	.018	1.8	PCE3537CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0J470R
8	33	.018	1.8	PCE3538CT-ND	1.82	1.31	1.20	3,500	509.00/M	EEF-HL0K330R

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

SP/CB Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

Features: • Excellent noise-absorbent characteristics • Surface mountable (Flow and reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to an adoption of solid electrolyte **Specifications:** • **Operating Temperature Range:** -40°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • **Leakage Current:** I≤ 0.04CV or 3µA after 2 minutes • **Dissipation Factor:** ≤0.06 (120Hz, 20°C) • **Permissible Current Between Terminals with Same Polarity:** 2A DC maximum (This shall be applicable only when each terminal is landed individually.) • **Surge Voltage:** Rated working voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance Change (±10% of initial measured value); tan, Impedance and DC Leakage Current (Initial specified value).

Rated W.V. (VDC)	Nom. Cap. (µF)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
6.3	10	PCS1100BCT-ND	1.89	1.46	1.39	PCS1100BTR-ND	804.00/M	ECG-C0JB100R
6.3	22	PCS1220JBCT-ND	2.30	1.77	1.69	PCS1220JBTR-ND	976.00/M	ECG-C0JB220R
8.0	15	PCS1150BCT-ND	2.30	1.77	1.69	PCS1150BTR-ND	976.00/M	ECG-C0KB150R
12.5	4.7	—	—	—	—	PCE2101TR-ND	1354.00/M	ECG-C1BA4R7R
16.0	6.8	PCS36R8BCT-ND	2.30	1.77	1.69	PCS36R8BTR-ND	976.00/M	ECG-C1CB6R8R

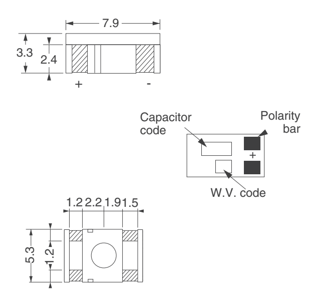

NEW! ECAS Series Polymer Aluminum Electrolytic Capacitors

Murata's ECAS series of polymer aluminum electrolytic capacitors are ideal for low ESR, high capacitance applications in a variety of commercial and industrial markets. Utilizing innovative design and manufacturing processes, the ECAS series provides a high level of performance allowing circuit designers to achieve excellent noise suppression, ripple absorption, and output smoothing in power management applications.

The ECAS series has a resin molded case structure, which utilizes multilayer aluminum foil for anode, and solid conductive polymer for negative cathode. This surface mount design can be soldered using traditional reflow methods. The offered capacitance range is 6.8uF ~ 470uF with rated voltages from 2VDC ~ 16VDC.

Operating Temperature: -40°C ~ 105°C **Capacitance Tolerance:** ±20%

Size Code		L	W	T
Murata	EIA			
D4	7343-20	7.3+/-0.3	4.3+/-0.2	1.9+/-0.1
D6	7343-31	7.3+/-0.3	4.3+/-0.2	2.8+/-0.3
D9	7343-45	7.3+/-0.3	4.3+/-0.3	4.2+/-0.3

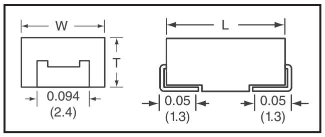

Cap (uF)	Size Code	ESR (mΩ) @ 25°C 100kHz/ Max	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Murata Part No.
2 WV(DC)									
100	D4	16	490-5449-1-ND	1.88	1.54	1.24	3,000	525.00/M	ECASD40D107M016K00
150	D4	9	490-5450-1-ND	2.26	1.88	1.66	3,000	744.00/M	ECASD40D157M009K00
220	D4	9	490-5451-1-ND	1.98	1.62	1.31	3,000	553.00/M	ECASD40D227M009K00
330	D6	7	490-5452-1-ND	3.13	2.60	2.30	2,500	1032.00/M	ECASD60D337M007K00
470	D6	6	490-5453-1-ND	3.08	2.55	2.25	2,500	1013.00/M	ECASD60D477M006K00
4 WV(DC)									
68	D4	20	490-5454-1-ND	2.26	1.88	1.66	3,000	744.00/M	ECASD40G686M020K00
82	D4	16	490-5455-1-ND	2.26	1.88	1.66	3,000	744.00/M	ECASD40G826M016K00
150	D4	16	490-5456-1-ND	2.07	1.70	1.37	3,000	579.00/M	ECASD40G157M016K00
180	D6	12	490-5457-1-ND	3.40	2.83	2.49	2,500	1121.00/M	ECASD60G187M012K00
220	D6	10	490-5458-1-ND	2.38	1.98	1.74	2,500	783.00/M	ECASD60G227M010K00
330	D9	8	490-5459-1-ND	3.96	3.52	3.19	2,000	1430.00/M	ECASD90G337M008K00
6.3 WV(DC)									
10	D4	55	490-5460-1-ND	1.73	1.42	1.14	3,000	483.00/M	ECASD40J106M055K00
22	D4	45	490-5461-1-ND	1.96	1.61	1.30	3,000	550.00/M	ECASD40J226M045K00
33	D4	25	490-5462-1-ND	2.35	1.93	1.56	3,000	658.00/M	ECASD40J336M025K00
47	D4	25	490-5463-1-ND	1.88	1.54	1.24	3,000	525.00/M	ECASD40J476M025K00
68	D4	15	490-5464-1-ND	2.25	1.85	1.49	3,000	630.00/M	ECASD40J686M015K00
100	D4	15	490-5465-1-ND	2.46	2.04	1.80	3,000	810.00/M	ECASD40J107M015K00
150	D6	10	490-5466-1-ND	3.28	2.72	2.40	2,500	1080.00/M	ECASD60J157M010K00

Cap (uF)	Size Code	ESR (mΩ) @ 25°C 100kHz/ Max	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Murata Part No.
220	D9	10	490-5467-1-ND	3.69	3.06	2.70	2,000	1215.00/M	ECASD90J227M010K00
10 WV(DC)									
10	D4	55	490-5468-1-ND	1.62	1.33	1.07	3,000	453.00/M	ECASD41A106M055K00
22	D4	28	490-5469-1-ND	1.73	1.42	1.14	3,000	483.00/M	ECASD41A226M028K00
33	D4	25	490-5470-1-ND	2.26	1.88	1.66	3,000	744.00/M	ECASD41A336M025K00
68	D6	15	490-5471-1-ND	3.13	2.60	2.30	2,500	1032.00/M	ECASD61A686M015K00
100	D9	10	490-5472-1-ND	3.70	3.29	2.98	2,000	1334.00/M	ECASD91A107M010K00
150	D9	10	490-5473-1-ND	5.00	4.45	4.04	2,000	1807.00/M	ECASD91A157M010K00
12.5 WV(DC)									
10	D4	55	490-5474-1-ND	1.70	1.40	1.13	3,000	476.00/M	ECASD41B106M055K00
15	D4	45	490-5475-1-ND	2.07	1.70	1.37	3,000	579.00/M	ECASD41B156M045K00
22	D4	30	490-5476-1-ND	1.73	1.42	1.14	3,000	483.00/M	ECASD41B226M030K00
33	D6	25	490-5477-1-ND	3.13	2.60	2.30	2,500	1032.00/M	ECASD61B336M025K00
47	D6	20	490-5478-1-ND	3.24	2.69	2.37	2,500	1067.00/M	ECASD61B476M020K00
56	D9	20	490-5479-1-ND	2.26	1.88	1.66	2,000	744.00/M	ECASD91B566M020K00
100	D9	12	490-5480-1-ND	3.92	3.49	3.17	2,000	1417.00/M	ECASD91B107M012K00
16 WV(DC)									
6.8	D4	70	490-5481-1-ND	1.60	1.32	1.06	3,000	448.00/M	ECASD41C685M070K00
10	D4	60	490-5482-1-ND	2.42	2.01	1.77	3,000	797.00/M	ECASD41C106M060K00
15	D4	40	490-5483-1-ND	2.07	1.70	1.37	3,000	579.00/M	ECASD41C156M040K00
22	D6	30	490-5484-1-ND	3.24	2.69	2.37	2,500	1067.00/M	ECASD61C226M030K00

† For Tape and Reel part number, change 1-ND to 2-ND

A700 Series AO-CAP Aluminum Organic Capacitors

KEMET's AO-CAP, designated the A700 Series, has been targeted for power management applications. The structure of the AO-CAP uses aluminum as the anode material, aluminum oxide as the dielectric, and a conductive organic polymer for its counter-electrode material. The AO-CAP offers many advantages: • Extremely low ESR • High capacitance retention for superior performance at high operating frequencies • No voltage derating up to 125°C • Robust to the surface-mount process • No dry-out-related failure mechanism

The A700 Series has a molded case and wraparound terminations. This provides strong protection against cracks (flex) making it an ideal alternative to high-capacitance ceramics, and also offers true surface-mountable solutions to the existing aluminum organic capacitors found in the industry. The high-frequency performance of the AO-CAP can reduce component counts, which allows the designer to save board space and offers a more cost-effective solution.

The AO-CAP has excellent surge current performance and long-term reliability. There is no recommended derating of application voltage to reduce failure rate.

Operating Temperature: -55°C ~ 125°C The approximate capacitance shift over the temperature range for -55°C is -15%, and for 125°C is +15% **Capacitance Tolerance:** ±20%

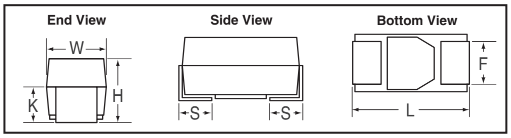

Size Code		L	W	H	K Min.	F ±0.1	S ±0.2
Kemet	EIA						
V	7343-20	7.3 ±0.3	4.3 ±0.3	1.9 ±0.1	1.1	2.4	1.3
W	7343-15	7.3 ±0.3	4.3 ±0.3	1.5 Max.	—	2.4	1.3
D	7343-31	7.3 ±0.3	4.3 ±0.3	2.8 ±0.3	1.3	2.4	1.3
X	7343-43	7.3 ±0.3	4.3 ±0.3	4.0 ±0.3	2.1	2.4	1.3

Cap (µF)	Size Code	ESR Ω @ 25°C 100kHz Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Tape and Reel† Qty.	Pricing	Kemet Part No.
2 WV(DC)									
100	V	0.028	399-3030-1-ND	2.48	2.03	1.84	1,000	743.00	A700V107M002ATE028
100	W	0.016	399-5485-1-ND	2.67	2.21	2.12	500	520.00	A700W107M002ATE016
150	V	0.028	399-3031-1-ND	2.48	2.03	1.84	1,000	743.00	A700V157M002ATE028
150	V	0.015	399-5486-1-ND	2.44	2.03	1.94	1,000	833.00	A700V157M002ATE015
180	D	0.018	399-3032-1-ND	3.05	2.54	2.43	500	596.00	A700D187M002ATE018
220	V	0.007	399-5487-1-ND	2.64	2.20	2.10	1,000	903.00	A700V227M002ATE007
220	V	0.015	399-5488-1-ND	2.44	2.03	1.94	1,000	833.00	A700V227M002ATE015
220	D	0.009	399-5517-1-ND	3.67	3.05	2.91	500	716.00	A700D227M002ATE009
220	D	0.018	399-3033-1-ND	3.05	2.54	2.43	500	596.00	A700D227M002ATE018
220	D	0.015	399-3034-1-ND	3.26	2.71	2.59	500	636.00	A700D227M002ATE015
220	D	0.012	399-3035-1-ND	3.46	2.88	2.75	500	676.00	A700D227M002ATE012
270	X	0.015	399-3036-1-ND	3.60	3.20	3.10	500	725.00	A700X277M002ATE015
330	D	0.012	399-5489-1-ND	3.46	2.88	2.75	500	676.00	A700D337M002ATE012
330	X	0.015	399-3037-1-ND	3.60	3.20	3.10	500	725.00	A700X337M002ATE015
390	X	0.01	399-3039-1-ND	3.78	3.36	3.26	500	761.50	A700X397M002ATE010
470	X	0.007	399-5490-1-ND	4.14	3.68	3.57	500	833.75	A700X477M002ATE007
470	X	0.015	399-3040-1-ND	3.60	3.20	3.10	500	725.00	A700X477M002ATE015
2.5 WV(DC)									
82	V	0.028	399-3041-1-ND	2.48	2.03	1.84	1,000	743.00	A700V826M2R5ATE028
150	D	0.018	399-3042-1-ND	3.05	2.54	2.43	500	596.00	A700D157M2R5ATE018
220	X	0.015	399-3043-1-ND	3.60	3.20	3.10	500	725.00	A700X227M2R5ATE015
4 WV(DC)									
82	V	0.028	399-3044-1-ND	2.48	2.03	1.84	1,000	743.00	A700V826M004ATE028
68	V	0.02	399-5491-1-ND	2.23	1.86	1.78	1,000	763.00	A700V686M004ATE020
68	V	0.028	399-5492-1-ND	2.48	2.03	1.84	1,000	742.50	A700V686M004ATE028
120	D	0.018	399-3045-1-ND	3.05	2.54	2.43	500	596.00	A700D127M004ATE018
150	D	0.018	399-3046-1-ND	3.05	2.54	2.43	500	596.00	A700D157M004ATE018
180	X	0.015	399-3047-1-ND	3.60	3.20	3.10	500	725.00	A700X187M004ATE015
180	X	0.018	399-5493-1-ND	3.60	3.20	3.10	500	725.00	A700X187M004ATE018
220	X	0.015	399-3048-1-ND	3.60	3.20	3.10	500	725.00	A700X227M004ATE015
270	X	0.015	399-3049-1-ND	3.60	3.20	3.10	500	725.00	A700X277M004ATE015

Cap (µF)	Size Code	ESR Ω @ 25°C 100kHz Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Tape and Reel† Qty.	Pricing	Kemet Part No.
6.3 WV(DC)									
10	V	0.055	399-5494-1-ND	2.48	2.03	1.84	1,000	742.50	A700V106M006ATE055
33	V	0.028	399-3050-1-ND	2.48	2.03	1.84	1,000	743.00	A700V336M006ATE028
47	V	0.025	399-5277-1-ND	2.23	1.86	1.78	1,000	763.00	A700V476M006ATE025
47	V	0.028	399-3051-1-ND	2.48	2.03	1.84	1,000	743.00	A700V476M006ATE028
56	V	0.028	399-3052-1-ND	2.48	2.03	1.84	1,000	743.00	A700V566M006ATE028
68	V	0.028	399-3053-1-ND	2.48	2.03	1.84	1,000	743.00	A700V686M006ATE028
100	V	0.015	399-5495-1-ND	2.67	2.21	2.12	1,000	910.00	A700V107M006ATE015
100	D	0.015	399-5275-1-ND	3.26	2.71	2.59	500	636.00	A700D107M006ATE015
100	D	0.018	399-3054-1-ND	3.05	2.54	2.43	500	596.00	A700D107M006ATE018
150	D	0.01	399-5496-1-ND	3.46	2.88	2.75	500	676.00	A700D157M006ATE010
150	X	0.01	399-5276-1-ND	3.78	3.36	3.26	500	761.50	A700X157M006ATE010
150	X	0.015	399-3055-1-ND	3.60	3.20	3.10	500	725.00	A700X157M006ATE015
180	X	0.015	399-3056-1-ND	3.60	3.20	3.10	500	725.00	A700X187M006ATE015
8 WV(DC)									
33	V	0.028	399-3057-1-ND	2.48	2.03	1.84	1,000	743.00	A700V336M008ATE028
10 WV(DC)									
33	V	0.028	399-3058-1-ND	2.48	2.03	1.84	1,000	743.00	A700V336M010ATE028
12.5 WV(DC)									
10	V	0.040	399-5293-1-ND	2.46	2.04	1.95	1,000	840.00	A700V106M12RATE040
47	D	0.025	399-5294-1-ND	3.20	2.66	2.54	500	624.00	A700D476M12RATE025
100	X	0.015	399-5295-1-ND	4.14	3.68	3.57	500	834.00	A700X107M12RATE015
16 WV(DC)									
10	V	0.045	399-5212-1-ND	2.46	2.04	1.95	1,000	840.00	A700V106M016ATE045
15	V	0.040	399-5497-1-ND	2.67	2.21	2.12	1,000	910.00	A700V156M016ATE040
22	D	0.018	399-5211-1-ND	3.26	2.71	2.59	500	636.00	A700D226M016ATE018
22	D	0.030	399-5498-1-ND	3.05	2.54	2.43	500	596.00	A700D226M016ATE030

† For Tape and Reel part number, change 1-ND to 2-ND

399-5270-ND (Kemet No. TAN ENG KIT 08)
See Digi-Key website for values included (160 total pieces)..........**$54.00**

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

nichicon VR Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

General Purpose 85°C

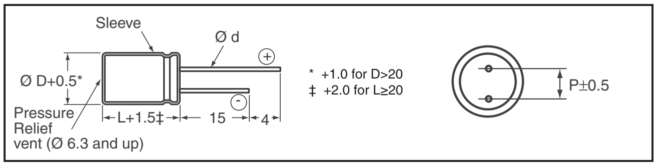

* +1.0 for D>20
‡ +2.0 for L≥20

FEATURES: • Radial lead standard type for general purpose • Miniature sized • Life: 2000 hours at 85°C

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C (6.3V ~ 400V), -25°C ~ 85°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Voltage: 6.3V ~ 100V	**Rated Voltage:** 200V ~ 450V
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40µA or less
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minute application of rated voltage, CV > 1000: I=0.04CV+100µA or less

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100	200 ~ 315	350 ~ 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	200	250~350	400	450
Impedance Ratio ZT/Z20 Max.	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	12	10	8	5	4	3	3	3	4	8	10	—

- **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.
- **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Marking:** Printed with white color letter on black sleeve.

F

Cap. (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Current @120Hz /85°C (mA rms)	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				øD	L	P	ød		1	10	
6.3 VDC Working Voltage											
22	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1000-ND	.17	1.13	UVR0J220MDD
33	3.00	0.28	80	5.0	11.0	2.0	0.5	493-1001-ND	.17	1.13	UVR0J330MDD
47	3.00	0.28	95	5.0	11.0	2.0	0.5	493-1002-ND	.17	1.13	UVR0J470MDD
100	6.30	0.28	135	5.0	11.0	2.0	0.5	493-1003-ND	.17	1.13	UVR0J101MDD
220	13.86	0.28	200	5.0	11.0	2.0	0.5	493-1004-ND	.17	1.13	UVR0J221MDD
330	20.79	0.28	270	6.3	11.0	2.5	0.5	493-1005-ND	.25	1.73	UVR0J331MED
470	29.61	0.28	320	6.3	11.0	2.5	0.5	493-1006-ND	.28	1.92	UVR0J471MED
1000	63.00	0.28	540	8.0	11.5	3.5	0.6	493-1007-ND	.34	2.34	UVR0J102MPD
2200	138.60	0.30	1000	10.0	20.0	5.0	0.6	493-1008-ND	.63	4.43	UVR0J222MPD
3300	207.90	0.32	1190	10.0	20.0	5.0	0.6	493-1009-ND	.70	4.92	UVR0J332MPD
4700	296.10	0.34	1550	12.5	20.0	5.0	0.6	493-1010-ND	.77	5.88	UVR0J472MHD
6800	428.40	0.38	1920	12.5	25.0	5.0	0.6	493-1011-ND	.94	7.15	UVR0J682MHD
10000	630.00	0.46	2350	16.0	25.0	7.5	0.8	493-1012-ND	1.50	11.85	UVR0J103MHD
15000	945.00	0.56	2850	16.0	35.5	7.5	0.8	493-1013-ND	1.75	13.80	UVR0J153MHD
22000	1386.00	0.70	3350	18.0	40.0	7.5	0.8	493-1014-ND	1.84	14.91	UVR0J223MHD
22000	1386.00	0.70	3200	22.0	30.0	10.0	1.0	493-1015-ND	1.84	14.91	UVR0J223MRD6
33000	2079.00	0.92	3900	22.0	50.0	10.0	1.0	493-1016-ND	3.42	27.55	UVR0J333MRD
33000	2079.00	0.92	3800	25.0	40.0	12.5	1.0	493-1017-ND	3.42	27.55	UVR0J333MRD6
10 VDC Working Voltage											
22	3.00	0.24	65	5.0	11.0	2.0	0.5	493-1018-ND	.17	1.13	UVR1A220MDD
33	3.30	0.24	85	5.0	11.0	2.0	0.5	493-1019-ND	.17	1.13	UVR1A330MDD
47	4.70	0.24	100	5.0	11.0	2.0	0.5	493-1020-ND	.17	1.13	UVR1A470MDD
100	10.00	0.24	145	5.0	11.0	2.0	0.5	493-1021-ND	.17	1.13	UVR1A101MDD
220	22.00	0.24	240	6.3	11.0	2.5	0.5	493-1022-ND	.25	1.73	UVR1A221MED
330	33.00	0.24	290	6.3	11.0	2.5	0.5	493-1023-ND	.28	1.92	UVR1A331MED
470	47.00	0.24	350	6.3	11.0	2.5	0.5	493-1024-ND	.28	1.92	UVR1A471MED
1000	100.00	0.24	650	10.0	12.5	5.0	0.6	493-1025-ND	.44	3.08	UVR1A102MPD
2200	220.00	0.26	1100	10.0	20.0	5.0	0.6	493-1026-ND	.72	5.08	UVR1A222MPD
3300	330.00	0.28	1450	12.5	20.0	5.0	0.6	493-1027-ND	.77	5.88	UVR1A332MHD
4700	470.00	0.30	1800	12.5	25.0	5.0	0.6	493-1028-ND	1.00	7.61	UVR1A472MHD
6800	680.00	0.34	2250	16.0	25.0	7.5	0.8	493-1029-ND	1.51	11.94	UVR1A682MHD
10000	1000.00	0.42	2700	16.0	35.5	7.5	0.8	493-1030-ND	1.75	13.80	UVR1A103MHD
15000	1500.00	0.52	3100	18.0	35.5	7.5	0.8	493-1031-ND	1.82	14.37	UVR1A153MHD
22000	2200.00	0.66	3700	20.0	40.0	10.0	1.0	493-1032-ND	2.64	21.34	UVR1A223MRD
22000	2200.00	0.66	3300	25.0	30.0	12.5	1.0	493-1033-ND	2.64	21.34	UVR1A223MRD6
33000	3300.00	0.88	4500	22.0	50.0	10.0	1.0	493-1034-ND	3.89	34.99	UVR1A333MRD
33000	3300.00	0.88	4800	25.0	40.0	12.5	1.0	493-1035-ND	3.89	34.99	UVR1A333MRD6
16 VDC Working Voltage											
10	3.00	0.20	50	5.0	11.0	2.0	0.5	493-1036-ND	.17	1.13	UVR1C100MDD
22	3.52	0.20	75	5.0	11.0	2.0	0.5	493-1037-ND	.17	1.13	UVR1C220MDD
33	5.28	0.20	90	5.0	11.0	2.0	0.5	493-1038-ND	.17	1.13	UVR1C330MDD
47	7.52	0.20	110	5.0	11.0	2.0	0.5	493-1039-ND	.17	1.13	UVR1C470MDD
100	16.00	0.20	160	5.0	11.0	2.0	0.5	493-1040-ND	.17	1.13	UVR1C101MDD
220	35.20	0.20	260	6.3	11.0	2.5	0.5	493-1041-ND	.28	1.92	UVR1C221MED
330	52.80	0.20	370	8.0	11.5	3.5	0.6	493-1042-ND	.29	1.98	UVR1C331MPD
470	75.20	0.20	440	8.0	11.5	3.5	0.6	493-1043-ND	.32	2.22	UVR1C471MPD
1000	160.00	0.20	790	10.0	16.0	5.0	0.6	493-1044-ND	.56	3.94	UVR1C102MPD
2200	352.00	0.22	1300	12.5	20.0	5.0	0.6	493-1045-ND	.77	5.85	UVR1C222MHD
3300	528.00	0.24	1700	12.5	25.0	5.0	0. 6	493-1046-ND	1.00	7.61	UVR1C332MHD
4700	752.00	0.26	2100	16.0	25.0	7.5	0.8	493-1047-ND	1.47	11.61	UVR1C472MHD
6800	1088.00	0.30	2650	16.0	35.5	7.5	0.8	493-1048-ND	1.75	13.80	UVR1C682MHD
10000	1600.00	0.38	2950	18.0	35.5	7.5	0.8	493-1049-ND	1.82	14.37	UVR1C103MHD
10000	1600.00	0.38	3000	20.0	31.0	10.0	1.0	493-1050-ND	1.82	14.37	UVR1C103MRD6
15000	2400.00	0.46	3400	20.0	40.0	10.0	1.0	493-1051-ND	2.72	22.00	UVR1C153MRD
15000	2400.00	0.46	3300	25.0	30.0	12.5	1.0	493-1052-ND	2.72	22.00	UVR1C153MRD6
22000	3520.00	0.58	4200	22.0	50.0	10.0	1.0	493-1053-ND	3.56	28.68	UVR1C223MRD
22000	3520.00	0.58	4000	25.0	40.0	12.5	1.0	493-1054-ND	3.56	28.68	UVR1C223MRD6
33000	5280.00	0.78	4800	25.0	50.0	12.5	1.0	493-1055-ND	4.42	39.80	UVR1C333MRD
25 VDC Working Voltage											
4.7	3.00	0.16	35	5.0	11.0	2.0	0.5	493-1056-ND	.17	1.13	UVR1E4R7MDD
10	3.00	0.16	55	5.0	11.0	2.0	0.5	493-1057-ND	.17	1.13	UVR1E100MDD
22	5.50	0.16	80	5.0	11.0	2.0	0.5	493-1058-ND	.17	1.13	UVR1E220MDD
33	8.25	0.16	95	5.0	11.0	2.0	0.5	493-1059-ND	.17	1.13	UVR1E330MDD
47	11.75	0.16	115	5.0	11.0	2.0	0.5	493-1060-ND	.17	1.13	UVR1E470MDD
100	25.00	0.16	190	6.3	11.0	2.5	0.5	493-1061-ND	.25	1.73	UVR1E101MED
220	55.00	0.16	330	8.0	11.5	3.5	0.6	493-1062-ND	.29	1.98	UVR1E221MPD
330	82.50	0.16	440	10.0	12.5	5.0	0.6	493-1063-ND	.35	2.40	UVR1E331MPD
470	117.50	0.16	550	10.0	12.5	5.0	0.6	493-1064-ND	.48	3.30	UVR1E471MPD
1000	250.00	0.16	960	10.0	20.0	5.0	0.6	493-1065-ND	.63	4.43	UVR1E102MPD
2200	550.00	0.18	1550	12.5	25.0	5.0	0.6	493-1066-ND	1.00	7.61	UVR1E222MHD
3300	825.00	0.20	1980	16.0	25.0	7.5	0.8	493-1067-ND	1.47	11.61	UVR1E332MHD
4700	1175.00	0.22	2450	16.0	31.5	7.5	0.8	493-1068-ND	1.49	11.73	UVR1E472MHD
6800	1700.00	0.26	2900	18.0	35.5	7.5	0.8	493-1069-ND	1.88	15.18	UVR1E682MHD
6800	1700.00	0.26	2700	20.0	31.0	10.0	1.0	493-1070-ND	1.88	15.18	UVR1E682MRD6
10000	2500.00	0.34	3000	20.0	40.0	10.0	1.0	493-1071-ND	3.07	24.81	UVR1E103MRD
10000	2500.00	0.34	2900	25.0	30.0	12.5	1.0	493-1072-ND	3.07	24.81	UVR1E103MRD6
15000	3750.00	0.42	3800	22.0	50.0	10.0	1.0	493-1073-ND	3.85	31.05	UVR1E153MRD
15000	3750.00	0.42	3600	25.0	40.0	12.5	1.0	493-1074-ND	3.85	31.05	UVR1E153MRD6
22000	5500.00	0.54	4500	25.0	50.0	12.5	1.0	493-1075-ND	4.42	39.80	UVR1E223MRD
35 VDC Working Voltage											
4.7	3.00	0.14	40	5.0	11.0	2.0	0.5	493-1076-ND	.17	1.13	UVR1V4R7MDD
10	3.50	0.14	60	5.0	11.0	2.0	0.5	493-1077-ND	.17	1.13	UVR1V100MDD
22	7.70	0.14	90	5.0	11.0	2.0	0.5	493-1078-ND	.17	1.13	UVR1V220MDD
33	11.55	0.14	105	5.0	11.0	2.0	0.5	493-1079-ND	.17	1.13	UVR1V330MDD
47	16.45	0.14	130	5.0	11.0	2.0	0.5	493-1080-ND	.17	1.13	UVR1V470MDD
100	35.00	0.14	210	6.3	11.0	2.5	0.5	493-1081-ND	.28	1.92	UVR1V101MED
220	77.00	0.14	385	10.0	12.5	5.0	0.6	493-1082-ND	.35	2.40	UVR1V221MPD
330	115.50	0.14	490	10.0	12.5	5.0	0.6	493-1083-ND	.48	3.30	UVR1V331MPD
470	164.50	0.14	650	10.0	16.0	5.0	0.6	493-1084-ND	.48	3.30	UVR1V471MPD
1000	350.00	0.14	1150	12.5	20.0	5.0	0.6	493-1085-ND	.64	4.51	UVR1V102MHD
2200	770.00	0.16	1800	16.0	25.0	7.5	0.8	493-1086-ND	1.32	10.41	UVR1V222MHD
3300	1155.00	0.18	2280	16.0	35.5	7.5	0.8	493-1087-ND	1.75	13.80	UVR1V332MHD
4700	1645.00	0.20	2700	18.0	35.5	7.5	0.8	493-1088-ND	1.75	14.16	UVR1V472MHD
4700	1645.00	0.20	2700	20.0	31.0	10.0	1.0	493-1089-ND	1.75	14.16	UVR1V472MRD6
6800	2380.00	0.24	3000	20.0	40.0	10.0	1.0	493-1090-ND	2.72	22.00	UVR1V682MRD
6800	2380.00	0.24	2900	25.0	30.0	12.5	1.0	493-1091-ND	2.72	22.00	UVR1V682MRD6
10000	3500.00	0.32	3700	22.0	50.0	10.0	1.0	493-1092-ND	3.95	31.85	UVR1V103MRD
10000	3500.00	0.32	3600	25.0	40.0	12.5	1.0	493-1093-ND	3.95	31.85	UVR1V103MRD6
15000	5250.00	0.40	4300	25.0	50.0	12.5	1.0	493-1094-ND	4.42	39.80	UVR1V153MRD
50 VDC Working Voltage											
0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1095-ND	.17	1.13	UVR1H0R1MDD
0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1096-ND	.17	1.13	UVR1HR22MDD
0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1097-ND	.17	1.13	UVR1HR33MDD
0.47	3.00	0.12	6.2	5.0	11.0	2.0	0.5	493-1098-ND	.17	1.13	UVR1HR47MDD
1	3.00	0.12	17	5.0	11.0	2.0	0.5	493-1099-ND	.17	1.13	UVR1H010MDD
2.2	3.00	0.12	28	5.0	11.0	2.0	0.5	493-1100-ND	.17	1.13	UVR1H2R2MDD
3.3	3.00	0.12	35	5.0	11.0	2.0	0.5	493-1101-ND	.17	1.13	UVR1H3R3MDD
4.7	3.00	0.12	40	5.0	11.0	2.0	0.5	493-1102-ND	.17	1.13	UVR1H4R7MDD

(Continued)

Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Current @120Hz /85°C (mA rms)	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				øD	L	P	ød		1	10	
10	5.00	0.12	60	5.0	11.0	2.0	0.5	493-1103-ND	.17	1.13	UVR1H100MDD
22	11.00	0.12	95	5.0	11.0	2.0	0.5	493-1104-ND	.17	1.13	UVR1H220MDD
33	16.50	0.12	125	5.0	11.0	2.0	0.5	493-1105-ND	.17	1.13	UVR1H330MDD
47	23.50	0.12	155	6.3	11.0	2.5	0.5	493-1106-ND	.25	1.73	UVR1H470MED
100	50.00	0.12	260	8.0	11.5	3.5	0.6	493-1107-ND	.29	1.98	UVR1H101MPD
220	110.00	0.12	430	10.0	12.5	5.0	0.6	493-1108-ND	.44	3.08	UVR1H221MPD
330	165.00	0.12	590	10.0	16.0	5.0	0.6	493-1109-ND	.56	3.94	UVR1H331MPD
470	235.00	0.12	760	12.5	20.0	5.0	0.6	493-1110-ND	.65	4.80	UVR1H471MHD
1000	500.00	0.12	1350	12.5	25.0	5.0	0.6	493-1111-ND	1.00	7.61	UVR1H102MHD
2200	1100.00	0.14	2100	16.0	35.5	7.5	0.8	493-1112-ND	1.77	14.01	UVR1H222MHD
3300	1650.00	0.16	2500	18.0	35.5	7.5	0.8	493-1113-ND	1.83	14.46	UVR1H332MHD
3300	1650.00	0.16	2450	22.0	30.0	10.0	1.0	493-1114-ND	1.83	14.46	UVR1H332MRD6
4700	2350.00	0.18	2900	20.0	40.0	10.0	1.0	493-1115-ND	2.83	22.85	UVR1H472MRD
4700	2350.00	0.18	2900	25.0	30.0	12.5	1.0	493-1116-ND	2.83	22.85	UVR1H472MRD6
6800	3400.00	0.22	3500	22.0	50.0	10.0	1.0	493-1117-ND	3.95	31.85	UVR1H682MRD
6800	3400.00	0.22	3300	25.0	40.0	12.5	1.0	493-1118-ND	3.95	31.85	UVR1H682MRD6
10000	5000.00	0.30	4000	25.0	50.0	12.5	1.0	493-1119-ND	3.98	35.82	UVR1H103MRD
63 VDC Working Voltage											
10	6.30	0.10	65	5.0	11.0	2.0	0.5	493-1120-ND	.17	1.13	UVR1J100MDD
22	13.86	0.10	100	5.0	11.0	2.0	0.5	493-1121-ND	.17	1.13	UVR1J220MDD
33	20.79	0.10	140	6.3	11.0	2.5	0.5	493-1122-ND	.25	1.73	UVR1J330MED
47	29.61	0.10	170	6.3	11.0	2.5	0.5	493-1123-ND	.28	1.92	UVR1J470MED
100	63.00	0.10	300	10.0	12.5	5.0	0.6	493-1124-ND	.35	2.40	UVR1J101MPD
220	138.60	0.10	490	10.0	16.0	5.0	0.6	493-1125-ND	.56	3.94	UVR1J221MPD
330	207.90	0.10	710	10.0	20.0	5.0	0.6	493-1126-ND	.65	4.80	UVR1J331MPD
470	296.10	0.10	900	12.5	20.0	5.0	0.6	493-1127-ND	.77	5.88	UVR1J471MHD
1000	630.00	0.10	1300	16.0	25.0	7.5	0.8	493-1129-ND	1.29	10.17	UVR1J102MHD
2200	1386.00	0.12	2300	18.0	35.5	7.5	0.8	493-1130-ND	1.76	14.22	UVR1J222MHD
3300	2079.00	0.14	2700	20.0	40.0	10.0	1.0	493-1131-ND	2.88	23.27	UVR1J332MRD
3300	2079.00	0.14	2600	25.0	30.0	12.5	1.0	493-1132-ND	2.88	23.27	UVR1J332MRD6
4700	2961.00	0.16	3400	22.0	50.0	10.0	1.0	493-1133-ND	3.34	26.98	UVR1J472MRD
4700	2961.00	0.16	3200	25.0	40.0	12.5	1.0	493-1134-ND	3.34	26.98	UVR1J472MRD6
6800	4284.00	0.20	3900	25.0	50.0	12.5	1.0	493-1135-ND	4.53	36.50	UVR1J682MRD
100 VDC Working Voltage											
0.1	3.00	0.08	2.1	5.0	11.0	2.0	0.5	493-1136-ND	.17	1.13	UVR2A0R1MDD
0.22	3.00	0.08	4.7	5.0	11.0	2.0	0.5	493-1137-ND	.17	1.13	UVR2AR22MDD
0.33	3.00	0.08	7	5.0	11.0	2.0	0.5	493-1138-ND	.17	1.13	UVR2AR33MDD
0.47	3.00	0.08	10	5.0	11.0	2.0	0.5	493-1139-ND	.17	1.13	UVR2AR47MDD
1	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1140-ND	.17	1.13	UVR2A010MDD
2.2	3.00	0.08	30	5.0	11.0	2.0	0.5	493-1141-ND	.17	1.13	UVR2A2R2MDD
3.3	3.30	0.08	40	5.0	11.0	2.0	0.5	493-1142-ND	.17	1.13	UVR2A3R3MDD
4.7	4.70	0.08	45	5.0	11.0	2.0	0.5	493-1143-ND	.17	1.13	UVR2A4R7MDD
10	10.00	0.08	75	6.3	11.0	2.5	0.5	493-1144-ND	.25	1.73	UVR2A100MED
22	22.00	0.08	130	6.3	11.0	2.5	0.5	493-1145-ND	.28	1.92	UVR2A220MED
33	33.00	0.08	180	8.0	11.5	3.5	0.6	493-1146-ND	.34	2.34	UVR2A330MPD
47	47.00	0.08	230	10.0	12.5	5.0	0.6	493-1147-ND	.48	3.30	UVR2A470MPD
100	100.00	0.08	370	10.0	20.0	5.0	0.6	493-1148-ND	.70	4.92	UVR2A101MPD
220	220.00	0.08	620	12.5	25.0	5.0	0.6	493-1149-ND	.91	6.96	UVR2A221MHD
330	330.00	0.08	760	12.5	25.0	5.0	0.6	493-1150-ND	1.00	7.61	UVR2A331MHD
470	470.00	0.08	1000	16.0	25.0	7.5	0.8	493-1151-ND	1.29	10.17	UVR2A471MHD
1000	1000.00	0.08	1380	18.0	40.0	7.5	0.8	493-1152-ND	1.75	13.80	UVR2A102MHD
2200	2200.00	0.10	2400	22.0	50.0	10.0	1.0	493-1153-ND	3.52	28.38	UVR2A222MRD
2200	2200.00	0.10	2400	25.0	40.0	12.5	1.0	493-1154-ND	3.52	28.38	UVR2A222MRD6
3300	3300.00	0.12	2900	25.0	50.0	12.5	1.0	493-1155-ND	4.29	34.58	UVR2A332MRD
0.47	47.52	0.20	15	6.3	11.0	2.5	0.5	493-1156-ND	.30	2.04	UVR2CR47MED
1	56	0.20	22	6.3	11.0	2.5	0.5	493-1157-ND	.30	2.04	UVR2C010MED
2.2	75.2	0.20	33	6.3	11.0	2.5	0.5	493-1158-ND	.30	2.10	UVR2C2R2MED
3.3	92.8	0.20	40	6.3	11.0	2.5	0.5	493-1159-ND	.39	2.70	UVR2C3R3MED
4.7	115.2	0.20	50	6.3	11.0	2.5	0.5	493-1160-ND	.39	2.70	UVR2C4R7MED
10	200	0.20	80	8.0	11.5	3.5	0.6	493-1161-ND	.40	2.80	UVR2C100MPD
22	392	0.20	155	10.0	16.0	5.0	0.6	493-1162-ND	.45	3.20	UVR2C220MPD
33	568	0.20	205	10.0	20.0	5.0	0.6	493-1163-ND	.70	4.92	UVR2C330MPD
47	792	0.20	270	12.5	20.0	5.0	0.6	493-1164-ND	.74	5.25	UVR2C470MHD
100	1640	0.20	430	12.5	25.0	5.0	0.6	493-1165-ND	.99	7.51	UVR2C101MHD
220	3560	0.20	800	16.0	35.5	7.5	0.8	493-1166-ND	1.50	11.85	UVR2C221MHD
330	5320	0.20	940	18.0	40.0	7.5	0.8	493-1167-ND	1.73	13.97	UVR2C331MHD
330	5320	0.20	900	22.0	30.0	10.0	1.0	493-1168-ND	1.73	13.97	UVR2C331MRD6
470	7560	0.20	1410	22.0	40.0	10.0	1.0	493-1169-ND	3.09	25.00	UVR2C471MRD
470	7560	0.20	1290	25.0	30.0	12.5	1.0	493-1170-ND	3.09	25.00	UVR2C471MRD6
1000	16040	0.20	1900	25.0	50.0	12.5	1.0	493-1171-ND	3.63	29.30	UVR2C102MRD
200 VDC Working Voltage											
0.47	49.4	0.20	15	6.3	11.0	2.5	0.5	493-1172-ND	.34	2.34	UVR2DR47MED
1	60	0.20	22	6.3	11.0	2.5	0.5	493-1173-ND	.34	2.34	UVR2D010MED
2.2	84	0.20	33	6.3	11.0	2.5	0.5	493-1174-ND	.33	2.30	UVR2D2R2MED
3.3	106	0.20	40	6.3	11.0	2.5	0.5	493-1175-ND	.39	2.70	UVR2D3R3MED
4.7	134	0.20	55	8.0	11.5	3.5	0.6	493-1176-ND	.49	3.40	UVR2D4R7MPD
10	240	0.20	95	10.0	12.5	5.0	0.6	493-1177-ND	.49	3.49	UVR2D100MPD
22	480	0.20	170	10.0	20.0	5.0	0.6	493-1178-ND	.72	5.08	UVR2D220MPD
33	700	0.20	230	12.5	20.0	5.0	0.6	493-1179-ND	.70	5.15	UVR2D330MHD
47	980	0.20	270	12.5	20.0	5.0	0.6	493-1180-ND	.70	5.15	UVR2D470MHD
100	2040	0.20	530	16.0	31.5	7.5	0.8	493-1181-ND	1.18	9.30	UVR2D101MHD
220	4440	0.20	810	18.0	35.5	7.5	0.8	493-1182-ND	1.79	14.16	UVR2D221MHD
330	6640	0.20	1130	20.0	40.0	10.0	1.0	493-1183-ND	3.10	25.11	UVR2D331MRD
330	6640	0.20	1090	25.0	30.0	12.5	1.0	493-1184-ND	3.10	25.11	UVR2D331MRD6
470	9440	0.20	1490	22.0	50.0	10.0	1.0	493-1185-ND	3.38	27.25	UVR2D471MRD
470	9440	0.20	1550	25.0	40.0	12.5	1.0	493-1186-ND	3.38	27.25	UVR2D471MRD6
250 VDC Working Voltage											
0.47	51.75	0.20	15	6.3	11.0	2.5	0.5	493-1187-ND	.29	2.00	UVR2ER47MED
1	65	0.20	22	6.3	11.0	2.5	0.5	493-1188-ND	.29	2.00	UVR2E010MED
2.2	95	0.20	33	6.3	11.0	2.5	0.5	493-1189-ND	.29	2.00	UVR2E2R2MED
3.3	122.5	0.20	46	8.0	11.5	3.5	0.6	493-1190-ND	.39	2.70	UVR2E3R3MPD
4.7	157.5	0.20	55	8.0	11.5	3.5	0.6	493-1191-ND	.49	3.40	UVR2E4R7MPD
10	290	0.20	105	10.0	16.0	5.0	0.6	493-1192-ND	.47	3.32	UVR2E100MPD
22	590	0.20	190	12.5	20.0	5.0	0.6	493-1193-ND	.72	5.08	UVR2E220MHD
33	865	0.20	230	12.5	20.0	5.0	0.6	493-1194-ND	.70	5.15	UVR2E330MHD
47	1215	0.20	300	12.5	25.0	5.0	0.6	493-1195-ND	.99	7.51	UVR2E470MHD
100	2540	0.20	520	16.0	31.5	7.5	0.8	493-1196-ND	1.65	13.02	UVR2E101MHD
220	5540	0.20	740	20.0	40.0	10.0	1.0	493-1197-ND	3.30	26.58	UVR2E221MRD
220	5540	0.20	820	22.0	30.0	10.0	1.0	493-1198-ND	3.30	26.58	UVR2E221MRD6
330	8290	0.20	1170	22.0	50.0	10.0	1.0	493-1199-ND	3.53	28.45	UVR2E331MRD
330	8290	0.20	970	25.0	30.0	12.5	1.0	493-1200-ND	3.53	28.45	UVR2E331MRD6
470	11790	0.20	1600	25.0	50.0	12.5	1.0	493-1201-ND	4.50	36.25	UVR2E471MRD
315 VDC Working Voltage											
1	71.5	0.20	22	6.3	11.0	2.5	0.5	493-1202-ND	.32	2.25	UVR2F010MED
2.2	109.3	0.20	33	8.0	11.5	3.5	0.6	493-1203-ND	.42	2.95	UVR2F2R2MPD
3.3	143.95	0.20	55	10.0	12.5	5.0	0.6	493-1204-ND	.45	3.20	UVR2F3R3MPD
4.7	188.05	0.20	65	10.0	12.5	5.0	0.6	493-1205-ND	.52	3.65	UVR2F4R7MPD
10	355	0.20	115	10.0	20.0	5.0	0.6	493-1206-ND	.67	4.76	UVR2F100MPD
22	733	0.20	190	12.5	20.0	5.0	0.6	493-1207-ND	.70	5.15	UVR2F220MHD
33	1079.5	0.20	275	16.0	25.0	7.5	0.8	493-1208-ND	1.02	8.04	UVR2F330MHD
47	1520.5	0.20	340	16.0	25.0	7.5	0.8	493-1209-ND	1.29	10.20	UVR2F470MHD
100	3190	0.20	560	18.0	35.5	7.5	0.8	493-1210-ND	1.66	13.08	UVR2F101MHD
220	6970	0.20	850	22.0	50.0	10.0	1.0	493-1211-ND	4.46	35.95	UVR2F221MRD
220	6970	0.20	770	25.0	30.0	12.5	1.0	493-1212-ND	4.46	35.95	UVR2F221MRD6
330	10435	0.20	1250	25.0	50.0	12.5	1.0	493-1213-ND	4.11	36.97	UVR2F331MRD
350 VDC Working Voltage											
1	75	0.25	22	6.3	11.0	2.5	0.5	493-1214-ND	.33	2.30	UVR2V010MED
2.2	117	0.25	38	8.0	11.5	3.5	0.6	493-1215-ND	.41	2.85	UVR2V2R2MPD
3.3	155.5	0.25	55	10.0	12.5	5.0	0.6	493-1216-ND	.47	3.32	UVR2V3R3MPD
4.7	204.5	0.25	65	10.0	12.5	5.0	0.6	493-1217-ND	.47	3.32	UVR2V4R7MPD
10	390	0.25	115	10.0	20.0	5.0	0.6	493-1218-ND	.68	4.80	UVR2V100MPD
22	810	0.25	200	12.5	25.0	5.0	0.6	493-1219-ND	.68	5.01	UVR2V220MHD
33	1195	0.25	275	16.0	25.0	7.5	0.8	493-1220-ND	.98	7.77	UVR2V330MHD
47	1685	0.25	380	16.0	35.5	7.5	0.8	493-1221-ND	1.60	12.66	UVR2V470MHD
100	3540	0.25	590	18.0	40.0	7.5	0.8	493-1222-ND	1.87	14.73	UVR2V101MHD
100	3540	0.25	570	22.0	30.0	10.0	1.0	493-1223-ND	1.87	14.73	UVR2V101MRD6
220	7740	0.25	850	22.0	50.0	10.0	1.0	493-1224-ND	4.11	36.97	UVR2V221MRD
220	7740	0.25	890	25.0	40.0	12.5	1.0	493-1225-ND	4.11	36.97	UVR2V221MRD6
400 VDC Working Voltage											
1	80	0.25	25	8.0	11.5	3.5	0.6	493-1226-ND	.37	2.60	UVR2G010MPD
2.2	128	0.25	45	10.0	12.5	5.0	0.6	493-1227-ND	.44	3.12	UVR2G2R2MPD
3.3	172	0.25	55	10.0	12.5	5.0	0.6	493-1228-ND	.47	3.32	UVR2G3R3MPD
4.7	228	0.25	70	10.0	16.0	5.0	0.6	493-1229-ND	.55	3.85	UVR2G4R7MPD
10	440	0.25	130	12.5	20.0	5.0	0.6	493-1230-ND	.62	4.59	UVR2G100MHD
22	920	0.25	240	16.0	25.0	7.5	0.8	493-1231-ND	.98	7.77	UVR2G220MHD
33	1360	0.25	300	16.0	31.5	7.5	0.8	493-1232-ND	1.32	10.41	UVR2G330MHD
47	1920	0.25	370	16.0	35.5	7.5	0.8	493-1233-ND	1.74	13.71	UVR2G470MHD
100	4040	0.25	550	20.0	40.0	10.0	1.0	493-1234-ND	2.78	22.50	UVR2G101MRD
100	4040	0.25	530	25.0	30.0	12.5	1.0	493-1235-ND	2.78	22.50	UVR2G101MRD6
220	8840	0.25	750	25.0	50.0	12.5	1.0	493-1236-ND	4.48	40.28	UVR2G221MRD
450 VDC Working Voltage											
1	85	0.25	23	8.0	11.5	3.5	0.6	493-1237-ND	.37	2.60	UVR2W010MPD
2.2	139	0.25	35	10.0	12.5	5.0	0.6	493-1238-ND	.47	3.32	UVR2W2R2MPD
3.3	188.5	0.25	45	10.0	16.0	5.0	0.6	493-1239-ND	.47	3.32	UVR2W3R3MPD
4.7	251.5	0.25	55	10.0	20.0	5.0	0.6	493-1240-ND	.68	4.80	UVR2W4R7MPD
10	490	0.25	90	12.5	20.0	5.0	0.6	493-1241-ND	.68	5.01	UVR2W100MHD
22	1030	0.25	165	16.0	25.0	7.5	0.8	493-1242-ND	.98	7.77	UVR2W220MHD
33	1525	0.25	230	16.0	35.5	7.5	0.8	493-1243-ND	1.74	13.71	UVR2W330MHD
47	2155	0.25	300	18.0	40.0	7.5	0.8	493-1244-ND	1.88	15.24	UVR2W470MHD
47	2155	0.25	290	22.0	30.0	10.0	1.0	493-1245-ND	1.88	15.24	UVR2W470MRD6
100	4540	0.25	350	22.0	40.0	10.0	1.0	493-1246-ND	4.01	32.30	UVR2W101MRD

nichicon VZ Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 105°C

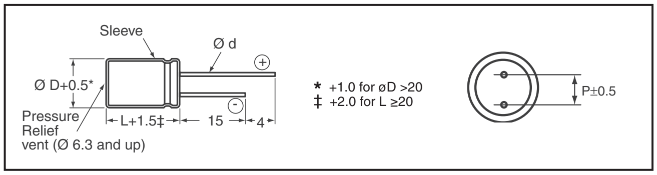

FEATURES: • Radial lead standard type for general purpose • Small case size • Wide temperature range • Life: 1000 hours at 105°C

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Voltage: 6.3 ~ 100	Rated Voltage: 160 ~ 450
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40 (µA) or less.
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minutes application of rated voltage, CV > 1000: I=0.04CV+100 (µA) or less.

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 ~ 315	350 ~ 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160 ~ 200	250 ~ 350	400	450
Impedance ratio ZT/Z20 (Max.)	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3	4	8	10	—

- **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.
- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Marking:** Printed with white color letter on black sleeve.

Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	Ød		1	10	
6.3 VDC Rated Voltage											
22	3.00	0.28	45	5.0	11.0	2.0	0.5	493-1247-ND	.22	1.50	UVZ0J220MDD
33	3.00	0.28	55	5.0	11.0	2.0	0.5	493-1248-ND	.22	1.50	UVZ0J330MDD
47	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1249-ND	.22	1.50	UVZ0J470MDD
100	6.30	0.28	95	5.0	11.0	2.0	0.5	493-1250-ND	.22	1.50	UVZ0J101MDD
220	13.86	0.28	145	5.0	11.0	2.0	0.5	493-1251-ND	.22	1.50	UVZ0J221MDD
330	20.79	0.28	195	6.3	11.0	2.5	0.5	493-1252-ND	.24	1.62	UVZ0J331MED
470	29.61	0.28	230	6.3	11.0	2.5	0.5	493-1253-ND	.31	2.10	UVZ0J471MED
1000	63.00	0.28	390	8.0	11.5	3.5	0.6	493-1254-ND	.37	2.60	UVZ0J102MPD
2200	138.60	0.30	710	10.0	20.0	5.0	0.6	493-1255-ND	.70	4.96	UVZ0J222MPD
3300	207.90	0.32	840	10.0	20.0	5.0	0.6	493-1256-ND	.70	4.96	UVZ0J332MPD
4700	296.10	0.34	1090	12.5	20.0	5.0	0.6	493-1257-ND	.79	5.98	UVZ0J472MHD
6800	428.40	0.38	1350	12.5	25.0	5.0	0.6	493-1258-ND	1.03	8.13	UVZ0J682MHD
10000	630.00	0.46	1650	16.0	25.0	7.5	0.8	493-1259-ND	1.57	12.36	UVZ0J103MHD
15000	945.00	0.56	2010	16.0	35.5	7.5	0.8	493-1260-ND	1.85	14.93	UVZ0J153MHD
22000	1386.00	0.70	2350	18.0	40.0	7.5	0.8	493-1261-ND	2.17	17.57	UVZ0J223MHD
33000	2079.00	0.92	2800	22.0	50.0	10.0	1.0	493-1262-ND	3.67	29.60	UVZ0J333MRD
10 VDC Rated Voltage											
22	3.00	0.24	45	5.0	11.0	2.0	0.5	493-1263-ND	.22	1.50	UVZ1A220MDD
33	3.30	0.24	58	5.0	11.0	2.0	0.5	493-1264-ND	.22	1.50	UVZ1A330MDD
47	4.70	0.24	68	5.0	11.0	2.0	0.5	493-1265-ND	.22	1.50	UVZ1A470MDD
100	10.00	0.24	105	5.0	11.0	2.0	0.5	493-1266-ND	.22	1.50	UVZ1A101MDD
220	22.00	0.24	175	6.3	11.0	2.5	0.5	493-1267-ND	.24	1.62	UVZ1A221MED
330	33.00	0.24	210	6.3	11.0	2.5	0.5	493-1268-ND	.31	2.10	UVZ1A331MED
470	47.00	0.24	250	6.3	11.0	2.5	0.5	493-1269-ND	.31	2.10	UVZ1A471MED
1000	100.00	0.24	460	10.0	12.5	5.0	0.6	493-1270-ND	.47	3.32	UVZ1A102MPD
2200	220.00	0.26	760	10.0	20.0	5.0	0.6	493-1271-ND	.65	4.76	UVZ1A222MPD
3300	330.00	0.28	1000	12.5	20.0	5.0	0.6	493-1272-ND	.79	5.98	UVZ1A332MHD
4700	470.00	0.30	1260	12.5	25.0	5.0	0.6	493-1273-ND	1.03	8.13	UVZ1A472MHD
6800	680.00	0.34	1570	16.0	25.0	7.5	0.8	493-1274-ND	1.58	12.48	UVZ1A682MHD
10000	1000.00	0.42	1890	16.0	35.5	7.5	0.8	493-1275-ND	1.85	14.93	UVZ1A103MHD
15000	1500.00	0.52	2180	18.0	35.5	7.5	0.8	493-1276-ND	1.97	15.90	UVZ1A153MHD
22000	2200.00	0.66	2650	20.0	40.0	10.0	1.0	493-1277-ND	2.82	22.80	UVZ1A223MRD
33000	3300.00	0.88	3250	22.0	50.0	10.0	1.0	493-1278-ND	4.07	32.83	UVZ1A333MRD
16 VDC Rated Voltage											
10	3.00	0.20	35	5.0	11.0	2.0	0.5	493-1279-ND	.22	1.50	UVZ1C100MDD
22	3.52	0.20	54	5.0	11.0	2.0	0.5	493-1280-ND	.22	1.50	UVZ1C220MDD
33	5.28	0.20	65	5.0	11.0	2.0	0.5	493-1281-ND	.22	1.50	UVZ1C330MDD
47	7.52	0.20	79	5.0	11.0	2.0	0.5	493-1282-ND	.22	1.50	UVZ1C470MDD
100	16.00	0.20	115	5.0	11.0	2.0	0.5	493-1283-ND	.22	1.50	UVZ1C101MDD
220	35.20	0.20	190	6.3	11.0	2.5	0.5	493-1284-ND	.31	2.10	UVZ1C221MED
330	52.80	0.20	265	8.0	11.5	3.5	0.6	493-1285-ND	.32	2.16	UVZ1C331MPD
470	75.20	0.20	315	8.0	11.5	3.5	0.6	493-1286-ND	.37	2.60	UVZ1C471MPD
1000	160.00	0.20	560	10.0	16.0	5.0	0.6	493-1287-ND	.57	4.02	UVZ1C102MPD
2200	352.00	0.22	920	12.5	20.0	5.0	0.6	493-1288-ND	.79	5.98	UVZ1C222MHD
3300	528.00	0.24	1170	12.5	25.0	5.0	0.6	493-1289-ND	1.03	7.83	UVZ1C332MHD
4700	752.00	0.26	1480	16.0	25.0	7.5	0.8	493-1290-ND	1.62	12.78	UVZ1C472MHD
6800	1088.00	0.30	1780	16.0	35.5	7.5	0.8	493-1291-ND	2.22	17.96	UVZ1C682MHD
10000	1600.00	0.38	2060	18.0	35.5	7.5	0.8	493-1292-ND	2.04	16.47	UVZ1C103MHD
15000	2400.00	0.48	2430	20.0	40.0	10.0	1.0	493-1293-ND	2.82	22.80	UVZ1C153MRD
22000	3520.00	0.62	3000	22.0	50.0	10.0	1.0	493-1294-ND	4.07	32.83	UVZ1C223MRD
33000	5280.00	0.84	3450	25.0	50.0	12.5	1.0	493-1295-ND	4.56	41.00	UVZ1C333MRD
25 VDC Rated Voltage											
4.7	3.00	0.16	25	5.0	11.0	2.0	0.5	493-1296-ND	.22	1.50	UVZ1E4R7MDD
10	3.00	0.16	36	5.0	11.0	2.0	0.5	493-1297-ND	.22	1.50	UVZ1E100MDD
22	5.50	0.16	58	5.0	11.0	2.0	0.5	493-1298-ND	.22	1.50	UVZ1E220MDD
33	8.25	0.16	68	5.0	11.0	2.0	0.5	493-1299-ND	.22	1.50	UVZ1E330MDD
47	11.75	0.16	83	5.0	11.0	2.0	0.5	493-1300-ND	.22	1.50	UVZ1E470MDD
100	25.00	0.16	140	6.3	11.0	2.5	0.5	493-1301-ND	.24	1.62	UVZ1E101MED
220	55.00	0.16	240	8.0	11.5	3.5	0.6	493-1302-ND	.31	2.10	UVZ1E221MPD
330	82.50	0.16	315	10.0	12.5	5.0	0.6	493-1303-ND	.37	2.60	UVZ1E331MPD
470	117.50	0.16	380	10.0	12.5	5.0	0.6	493-1304-ND	.45	3.20	UVZ1E471MPD
1000	250.00	0.16	680	10.0	20.0	5.0	0.6	493-1305-ND	.66	4.67	UVZ1E102MPD
2200	550.00	0.18	1090	12.5	25.0	5.0	0.6	493-1306-ND	1.03	7.83	UVZ1E222MHD
3300	825.00	0.20	1400	16.0	25.0	7.5	0.8	493-1307-ND	1.42	11.22	UVZ1E332MHD
4700	1175.00	0.22	1710	16.0	31.5	7.5	0.8	493-1308-ND	1.85	14.93	UVZ1E472MHD
6800	1700.00	0.26	2040	18.0	35.5	7.5	0.8	493-1309-ND	2.18	17.60	UVZ1E682MHD
10000	2500.00	0.34	2150	20.0	40.0	10.0	1.0	493-1310-ND	3.22	25.95	UVZ1E103MRD
15000	3750.00	0.44	2750	22.0	50.0	10.0	1.0	493-1311-ND	4.07	32.83	UVZ1E153MRD
22000	5500.00	0.58	3250	25.0	50.0	12.5	1.0	493-1312-ND	4.56	41.00	UVZ1E223MRD
35 VDC Rated Voltage											
4.7	3.00	0.14	28	5.0	11.0	2.0	0.5	493-1313-ND	.22	1.50	UVZ1V4R7MDD
10	3.50	0.14	41	5.0	11.0	2.0	0.5	493-1314-ND	.22	1.50	UVZ1V100MDD
22	7.70	0.14	61	5.0	11.0	2.0	0.5	493-1315-ND	.22	1.50	UVZ1V220MDD
33	11.55	0.14	75	5.0	11.0	2.0	0.5	493-1316-ND	.22	1.50	UVZ1V330MDD
47	16.45	0.14	93	5.0	11.0	2.0	0.5	493-1317-ND	.22	1.50	UVZ1V470MDD
100	35.00	0.14	150	6.3	11.0	2.5	0.5	493-1318-ND	.31	2.10	UVZ1V101MED
220	77.00	0.14	275	10.0	12.5	5.0	0.6	493-1319-ND	.37	2.60	UVZ1V221MPD
330	115.50	0.14	350	10.0	12.5	5.0	0.6	493-1320-ND	.47	3.32	UVZ1V331MPD
470	164.50	0.14	460	10.0	16.0	5.0	0.6	493-1321-ND	.59	4.14	UVZ1V471MPD
1000	350.00	0.14	810	12.5	20.0	5.0	0.6	493-1322-ND	.81	5.99	UVZ1V102MHD
2200	770.00	0.16	1260	16.0	25.0	7.5	0.8	493-1323-ND	1.28	10.11	UVZ1V222MHD
3300	1155.00	0.18	1610	16.0	35.5	7.5	0.8	493-1324-ND	1.85	14.93	UVZ1V332MHD
4700	1645.00	0.20	1910	18.0	35.5	7.5	0.8	493-1325-ND	1.97	15.92	UVZ1V472MHD
6800	2380.00	0.24	2150	20.0	40.0	10.0	1.0	493-1326-ND	2.97	24.01	UVZ1V682MRD
10000	3500.00	0.32	2650	22.0	50.0	10.0	1.0	493-1327-ND	4.07	32.83	UVZ1V103MRD
15000	4200.00	0.36	3100	25.0	50.0	12.5	1.0	493-1328-ND	4.12	37.04	UVZ1V153MRD
50 VDC Rated Voltage											
0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1329-ND	.22	1.50	UVZ1H0R1MDD
0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1330-ND	.22	1.50	UVZ1HR22MDD
0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1331-ND	.22	1.50	UVZ1HR33MDD
0.47	3.00	0.12	7	5.0	11.0	2.0	0.5	493-1332-ND	.22	1.50	UVZ1HR47MDD
1	3.00	0.12	13	5.0	11.0	2.0	0.5	493-1333-ND	.22	1.50	UVZ1H010MDD
2.2	3.00	0.12	20	5.0	11.0	2.0	0.5	493-1334-ND	.22	1.50	UVZ1H2R2MDD
3.3	3.00	0.12	25	5.0	11.0	2.0	0.5	493-1335-ND	.22	1.50	UVZ1H3R3MDD
4.7	3.00	0.12	30	5.0	11.0	2.0	0.5	493-1336-ND	.22	1.50	UVZ1H4R7MDD

(Continued)

Cap. (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	Ød		1	10	
10	5.00	0.12	46	5.0	11.0	2.0	0.5	493-1337-ND	.22	1.50	UVZ1H100MDD
22	11.00	0.12	68	5.0	11.0	2.0	0.5	493-1338-ND	.22	1.50	UVZ1H220MDD
33	16.50	0.12	90	5.0	11.0	2.0	0.5	493-1339-ND	.22	1.50	UVZ1H330MDD
47	23.50	0.12	115	6.3	11.0	2.5	0.5	493-1340-ND	.24	1.62	UVZ1H470MED
100	50.00	0.12	190	8.0	11.5	3.5	0.6	493-1341-ND	.31	2.10	UVZ1H101MPD
220	110.00	0.12	300	10.0	12.5	5.0	0.6	493-1342-ND	.47	3.32	UVZ1H221MPD
330	165.00	0.12	410	10.0	16.0	5.0	0.6	493-1343-ND	.60	4.22	UVZ1H331MPD
470	235.00	0.12	530	12.5	20.0	5.0	0.6	493-1344-ND	.75	5.50	UVZ1H471MHD
1000	500.00	0.12	950	12.5	25.0	5.0	0.6	493-1345-ND	1.03	7.87	UVZ1H102MHD
2200	1100.00	0.14	1470	16.0	35.5	7.5	0.8	493-1346-ND	1.73	13.97	UVZ1H222MHD
3300	1650.00	0.16	1770	18.0	35.5	7.5	0.8	493-1347-ND	2.22	17.93	UVZ1H332MHD
4700	2350.00	0.18	2100	20.0	40.0	10.0	1.0	493-1348-ND	3.22	25.95	UVZ1H472MRD
6800	3400.00	0.22	2500	22.0	50.0	10.0	1.0	493-1349-ND	4.07	32.83	UVZ1H682MRD
10000	5000.00	0.30	2850	25.0	50.0	12.5	1.0	493-1350-ND	4.56	41.00	UVZ1H103MRD
63 VDC Rated Voltage											
10	6.30	0.10	46	5.0	11.0	2.0	0.5	493-1351-ND	.22	1.50	UVZ1J100MDD
22	13.86	0.10	71	5.0	11.0	2.0	0.5	493-1352-ND	.22	1.50	UVZ1J220MDD
33	20.79	0.10	100	6.3	11.0	2.5	0.5	493-1353-ND	.24	1.62	UVZ1J330MED
47	29.61	0.10	120	6.3	11.0	2.5	0.5	493-1354-ND	.31	2.10	UVZ1J470MED
100	63.00	0.10	215	10.0	12.5	5.0	0.6	493-1355-ND	.37	2.60	UVZ1J101MPD
220	138.60	0.10	335	10.0	16.0	5.0	0.6	493-1356-ND	.60	4.22	UVZ1J221MPD
330	207.90	0.10	510	10.0	20.0	5.0	0.6	493-1357-ND	.72	5.32	UVZ1J331MPD
470	296.10	0.10	640	12.5	20.0	5.0	0.6	493-1358-ND	.79	5.98	UVZ1J471MHD
1000	630.00	0.10	930	16.0	25.0	7.5	0.8	493-1359-ND	1.35	10.62	UVZ1J102MHD
2200	1386.00	0.12	1650	18.0	35.5	7.5	0.8	493-1360-ND	1.73	13.97	UVZ1J222MHD
3300	2079.00	0.14	1950	20.0	40.0	10.0	1.0	493-1361-ND	3.20	25.80	UVZ1J332MRD
4700	2961.00	0.16	2450	22.0	50.0	10.0	1.0	493-1362-ND	4.04	32.55	UVZ1J472MRD
6800	4284.00	0.20	2800	25.0	50.0	12.5	1.0	493-1363-ND	4.38	39.44	UVZ1J682MRD
100 VDC Rated Voltage											
0.1	3.00	0.08	1.5	5.0	11.0	2.0	0.5	493-1364-ND	.22	1.50	UVZ2A0R1MDD
0.22	3.00	0.08	3.4	5.0	11.0	2.0	0.5	493-1365-ND	.22	1.50	UVZ2AR22MDD
0.33	3.00	0.08	5	5.0	11.0	2.0	0.5	493-1366-ND	.22	1.50	UVZ2AR33MDD
0.47	3.00	0.08	7.1	5.0	11.0	2.0	0.5	493-1367-ND	.22	1.50	UVZ2AR47MDD
1	3.00	0.08	15	5.0	11.0	2.0	0.5	493-1368-ND	.22	1.50	UVZ2A010MDD
2.2	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1369-ND	.22	1.50	UVZ2A2R2MDD
3.3	3.30	0.08	29	5.0	11.0	2.0	0.5	493-1370-ND	.22	1.50	UVZ2A3R3MDD
4.7	4.70	0.08	32	5.0	11.0	2.0	0.5	493-1371-ND	.22	1.50	UVZ2A4R7MDD
10	10.00	0.08	54	6.3	11.0	2.5	0.5	493-1372-ND	.24	1.62	UVZ2A100MED
22	22.00	0.08	93	6.3	11.0	2.5	0.5	493-1373-ND	.31	2.10	UVZ2A220MED
33	33.00	0.08	130	8.0	11.5	3.5	0.6	493-1374-ND	.37	2.60	UVZ2A330MPD
47	47.00	0.08	165	10.0	12.5	5.0	0.6	493-1375-ND	.50	3.45	UVZ2A470MPD
100	100.00	0.08	265	10.0	20.0	5.0	0.6	493-1376-ND	.73	5.13	UVZ2A101MPD
220	220.00	0.08	440	12.5	25.0	5.0	0.6	493-1377-ND	.96	7.31	UVZ2A221MHD
330	330.00	0.08	540	12.5	25.0	5.0	0.6	493-1378-ND	1.06	8.09	UVZ2A331MHD
470	470.00	0.08	715	16.0	25.0	7.5	0.8	493-1379-ND	1.35	10.62	UVZ2A471MHD
1000	1000.00	0.08	985	18.0	40.0	7.5	0.8	493-1380-ND	1.97	15.92	UVZ2A102MHD
2200	2200.00	0.10	1750	22.0	50.0	10.0	1.0	493-1381-ND	4.52	36.48	UVZ2A222MRD
3300	3300.00	0.12	2070	25.0	50.0	12.5	1.0	493-1382-ND	3.80	34.18	UVZ2A332MRD
160 VDC Rated Voltage											
1	56	0.20	16	6.3	11.0	2.5	0.5	493-1384-ND	.32	2.22	UVZ2C010MED
2.2	75.2	0.20	25	6.3	11.0	2.5	0.5	493-1385-ND	.29	2.00	UVZ2C2R2MED
3.3	92.8	0.20	30	6.3	11.0	2.5	0.5	493-1386-ND	.40	2.80	UVZ2C3R3MED
4.7	115.2	0.20	34	6.3	11.0	2.5	0.5	493-1387-ND	.40	2.80	UVZ2C4R7MED
10	200	0.20	41	8.0	11.5	3.5	0.6	493-1388-ND	.41	2.87	UVZ2C100MPD
22	392	0.20	100	10.0	16.0	5.0	0.6	493-1389-ND	.60	4.22	UVZ2C220MPD
33	568	0.20	145	10.0	20.0	5.0	0.6	493-1390-ND	.62	4.59	UVZ2C330MPD
47	792	0.20	195	12.5	20.0	5.0	0.6	493-1391-ND	.71	5.22	UVZ2C470MHD
100	1640	0.20	215	12.5	25.0	5.0	0.6	493-1392-ND	1.00	7.57	UVZ2C101MHD
220	3560	0.20	570	16.0	35.5	7.5	0.8	493-1393-ND	1.74	13.74	UVZ2C221MHD
330	5320	0.20	750	18.0	40.0	7.5	0.8	493-1394-ND	1.78	14.41	UVZ2C331MHD
470	7560	0.20	900	22.0	40.0	10.0	1.0	493-1395-ND	2.87	23.21	UVZ2C471MRD
1000	16040	0.20	1310	25.0	50.0	12.5	1.0	493-1396-ND	3.43	27.70	UVZ2C102MRD
200 VDC Rated Voltage											
0.47	49.4	0.20	11	6.3	11.0	2.5	0.5	493-1397-ND	.31	2.15	UVZ2DR47MED
1	60	0.20	16	6.3	11.0	2.5	0.5	493-1398-ND	.31	2.15	UVZ2D010MED
2.2	84	0.20	25	6.3	11.0	2.5	0.5	493-1399-ND	.35	2.45	UVZ2D2R2MED
3.3	106	0.20	30	6.3	11.0	2.5	0.5	493-1400-ND	.40	2.80	UVZ2D3R3MED
4.7	134	0.20	39	8.0	11.5	3.5	0.6	493-1401-ND	.41	2.87	UVZ2D4R7MPD

Cap. (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	Ød		1	10	
10	240	0.20	65	10.0	12.5	5.0	0.6	493-1402-ND	.51	3.61	UVZ2D100MPD
22	480	0.20	120	10.0	20.0	5.0	0.6	493-1403-ND	.62	4.59	UVZ2D220MPD
33	700	0.20	160	12.5	20.0	5.0	0.6	493-1404-ND	.71	5.22	UVZ2D330MHD
47	980	0.20	195	12.5	20.0	5.0	0.6	493-1405-ND	.71	5.22	UVZ2D470MHD
100	2040	0.20	375	16.0	31.5	7.5	0.8	493-1406-ND	1.48	11.67	UVZ2D101MHD
220	4440	0.20	575	18.0	35.5	7.5	0.8	493-1407-ND	1.75	14.16	UVZ2D221MHD
330	6640	0.20	705	20.0	40.0	10.0	1.0	493-1408-ND	2.94	23.79	UVZ2D331MRD
470	9440	0.20	840	22.0	50.0	10.0	1.0	493-1409-ND	3.43	27.70	UVZ2D471MRD
250 VDC Rated Voltage											
0.47	51.75	0.20	10	6.3	11.0	2.5	0.5	493-1410-ND	.32	2.22	UVZ2ER47MED
1	65	0.20	15	6.3	11.0	2.5	0.5	493-1411-ND	.32	2.22	UVZ2E010MED
2.2	95	0.20	23	6.3	11.0	2.5	0.5	493-1412-ND	.40	2.75	UVZ2E2R2MED
3.3	122.5	0.20	32	8.0	11.5	3.5	0.6	493-1413-ND	.40	2.80	UVZ2E3R3MPD
4.7	157.5	0.20	39	8.0	11.5	3.5	0.6	493-1414-ND	.41	2.87	UVZ2E4R7MPD
10	290	0.20	74	10.0	16.0	5.0	0.6	493-1415-ND	.60	4.22	UVZ2E100MPD
22	590	0.20	130	12.5	20.0	5.0	0.6	493-1416-ND	.62	4.59	UVZ2E220MHD
33	865	0.20	160	12.5	20.0	5.0	0.6	493-1417-ND	.71	5.22	UVZ2E330MHD
47	1215	0.20	210	12.5	25.0	5.0	0.6	493-1418-ND	1.00	7.57	UVZ2E470MHD
100	2540	0.20	365	16.0	31.5	7.5	0.8	493-1419-ND	1.79	14.13	UVZ2E101MHD
220	5540	0.20	600	20.0	40.0	10.0	1.0	493-1420-ND	1.93	15.65	UVZ2E221MRD
330	8290	0.20	730	22.0	50.0	10.0	1.0	493-1421-ND	3.27	26.40	UVZ2E331MRD
470	11790	0.20	870	25.0	50.0	12.5	1.0	493-1422-ND	4.17	33.65	UVZ2E471MRD
315 VDC Rated Voltage											
1	71.5	0.20	15	6.3	11.0	2.5	0.5	493-1423-ND	.34	2.35	UVZ2F010MED
2.2	109.3	0.20	26	8.0	11.5	3.5	0.6	493-1424-ND	.42	2.90	UVZ2F2R2MPD
3.3	143.95	0.20	38	10.0	12.5	5.0	0.6	493-1425-ND	.45	3.15	UVZ2F3R3MPD
4.7	188.05	0.20	45	10.0	12.5	5.0	0.6	493-1426-ND	.45	3.20	UVZ2F4R7MPD
10	355	0.20	80	10.0	20.0	5.0	0.6	493-1427-ND	.60	4.22	UVZ2F100MPD
22	733	0.20	115	12.5	20.0	5.0	0.6	493-1428-ND	.62	4.59	UVZ2F220MHD
33	1079.5	0.20	195	16.0	25.0	7.5	0.8	493-1429-ND	.93	7.09	UVZ2F330MHD
47	1520.5	0.20	230	16.0	25.0	7.5	0.8	493-1430-ND	1.41	11.16	UVZ2F470MHD
100	3190	0.20	395	18.0	35.5	7.5	0.8	493-1431-ND	1.80	14.58	UVZ2F101MHD
220	6970	0.20	620	22.0	50.0	10.0	1.0	493-1432-ND	4.23	34.08	UVZ2F221MRD
330	10435	0.20	760	25.0	50.0	12.5	1.0	493-1433-ND	4.84	43.58	UVZ2F331MRD
350 VDC Rated Voltage											
1	75	0.25	15	6.3	11.0	2.5	0.5	493-1434-ND	.42	2.95	UVZ2V010MED
2.2	117	0.25	26	8.0	11.5	3.5	0.6	493-1435-ND	.46	3.20	UVZ2V2R2MPD
3.3	155.5	0.25	38	10.0	12.5	5.0	0.6	493-1436-ND	.46	3.20	UVZ2V3R3MPD
4.7	204.5	0.25	45	10.0	12.5	5.0	0.6	493-1437-ND	.45	3.20	UVZ2V4R7MPD
10	390	0.25	80	10.0	20.0	5.0	0.6	493-1438-ND	.64	4.69	UVZ2V100MPD
22	810	0.25	115	12.5	25.0	5.0	0.6	493-1439-ND	.77	5.67	UVZ2V220MHD
33	1195	0.25	195	16.0	25.0	7.5	0.8	493-1440-ND	1.01	8.01	UVZ2V330MHD
47	1685	0.25	270	16.0	35.5	7.5	0.8	493-1441-ND	1.55	12.24	UVZ2V470MHD
100	3540	0.25	420	18.0	40.0	7.5	0.8	493-1442-ND	2.00	16.20	UVZ2V101MHD
220	7740	0.25	620	22.0	50.0	10.0	1.0	493-1443-ND	4.64	37.43	UVZ2V221MRD
400 VDC Rated Voltage											
1	80	0.25	17	8.0	11.5	3.5	0.6	493-1444-ND	.41	2.87	UVZ2G010MPD
2.2	128	0.25	30	10.0	12.5	5.0	0.6	493-1445-ND	.43	3.03	UVZ2G2R2MPD
3.3	172	0.25	38	10.0	12.5	5.0	0.6	493-1446-ND	.46	3.28	UVZ2G3R3MPD
4.7	228	0.25	50	10.0	16.0	5.0	0.6	493-1447-ND	.73	5.17	UVZ2G4R7MPD
10	440	0.25	90	12.5	20.0	5.0	0.6	493-1448-ND	.73	5.36	UVZ2G100MHD
22	920	0.25	165	16.0	25.0	7.5	0.8	493-1449-ND	.98	7.77	UVZ2G220MHD
33	1360	0.25	215	16.0	31.5	7.5	0.8	493-1450-ND	1.55	12.24	UVZ2G330MHD
47	1920	0.25	270	16.0	35.5	7.5	0.8	493-1451-ND	1.82	14.37	UVZ2G470MHD
100	4040	0.25	450	20.0	40.0	10.0	1.0	493-1452-ND	2.91	23.54	UVZ2G101MRD
220	8840	0.25	660	25.0	50.0	12.5	1.0	493-1453-ND	3.81	34.25	UVZ2G221MRD
450 VDC Rated Voltage											
1	85	0.25	13	8.0	11.5	3.5	0.6	493-1454-ND	.41	2.87	UVZ2W010MPD
2.2	139	0.25	23	10.0	12.5	5.0	0.6	493-1455-ND	.49	3.49	UVZ2W2R2MPD
3.3	188.5	0.25	31	10.0	16.0	5.0	0.6	493-1456-ND	.65	4.59	UVZ2W3R3MPD
4.7	251.5	0.25	40	10.0	20.0	5.0	0.6	493-1457-ND	.66	4.83	UVZ2W4R7MPD
10	490	0.25	65	12.5	20.0	5.0	0.6	493-1458-ND	.95	7.22	UVZ2W100MHD
22	1030	0.25	115	16.0	25.0	7.5	0.8	493-1459-ND	1.19	9.39	UVZ2W220MHD
33	1525	0.25	165	16.0	35.5	7.5	0.8	493-1460-ND	1.70	13.44	UVZ2W330MHD
47	2155	0.25	185	18.0	40.0	7.5	0.8	493-1461-ND	1.90	15.35	UVZ2W470MHD
100	4540	0.25	270	22.0	40.0	10.0	1.0	493-1462-ND	3.57	28.80	UVZ2W101MRD

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

Low Impedance, High Reliability 105°C

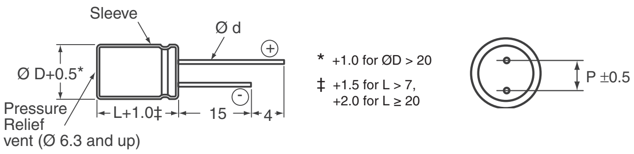

* +1.0 for ØD > 20

‡ +1.5 for L > 7,
+2.0 for L ≥ 20

FEATURES: • Miniature sized • Low impedance • High reliability withstanding 5000 hour load life at 105°C (3000/2000 hours for smaller case sizes as specified) • Ideal for switching power supplies

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Volt. (V)	6.3 ~ 100	160 ~ 450
Leakage Current	After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	CV ≤ 1000: I = 0.1CV+40 (µA) Max. (1 minute) CV > 1000: I = 0.04CV+100 (µA) Max. (1 minute)

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.

Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 ~ 250	315 ~ 350	400 ~ 450
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3-10	16-25	35-50	63-100	160-200	250	315-350	400	450
Impedance ratio	Z-55°C/Z+20°C	3	3	3	3	—	—	—	—	—
	Z-40°C/Z+20°C	—	—	—	—	4	6	8	10	—
	Z-25°C/Z+20°C	—	—	—	—	3	3	4	6	15

- **Endurance:** After an application of D.C. bias voltage plus the rated ripple current for 8000 hours (2000 hours for D = 4, 5 and 6.3, 3000 hours for D = 8, 5000 hours for D = 10, 7000 hours for D = 12.5) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200 % or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed
- **Marking:** Printed with white color letter on dark brown sleeve

Cap (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Current @100KHz/ 105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
6.3 VDC Rated Voltage											
22	4.158	0.22	180	5	11.0	2.0	0.50	493-1687-ND	.30	2.10	UPW0J220MDD
27	5.103	0.22	65	4	7.0	1.5	0.45	493-1688-ND	.30	2.10	UPW0J270MDD
33	6.237	0.22	180	5	11.0	2.0	0.50	493-1689-ND	.30	2.10	UPW0J330MDD
33	6.237	0.22	120	5	7.0	2.0	0.45	493-1690-ND	.30	2.10	UPW0J330MDD6
47	8.883	0.22	180	5	11.0	2.0	0.50	493-1691-ND	.30	2.10	UPW0J470MDD
47	8.883	0.22	120	5	7.0	2.0	0.45	493-1692-ND	.30	2.10	UPW0J470MDD6
56	10.584	0.22	120	5	7.0	2.0	0.45	493-1693-ND	.30	2.10	UPW0J560MDD
68	12.852	0.22	120	4	11.0	1.5	0.45	493-1694-ND	.34	2.35	UPW0J680MDD
100	18.9	0.22	180	5	11.0	2.0	0.50	493-1695-ND	.34	2.35	UPW0J101MDD
120	22.68	0.22	200	6.3	7.0	2.5	0.45	493-1696-ND	.35	2.45	UPW0J121MDD
150	28.35	0.22	235	5	15.0	2.0	0.50	493-1697-ND	.35	2.45	UPW0J151MDD6
150	28.35	0.22	290	6.3	11.0	2.5	0.50	493-1698-ND	.35	2.45	UPW0J151MED
220	41.58	0.22	290	6.3	11.0	2.5	0.50	493-1699-ND	.37	2.55	UPW0J221MED
330	62.37	0.22	290	6.3	11.0	2.5	0.50	493-1700-ND	.39	2.70	UPW0J331MED
330	62.37	0.22	430	6.3	15.0	2.5	0.50	493-1701-ND	.39	2.70	UPW0J331MED6
470	88.83	0.22	555	8	11.5	3.5	0.60	493-1702-ND	.39	2.70	UPW0J471MPD
560	105.84	0.22	555	8	11.5	3.5	0.60	493-1703-ND	.40	2.80	UPW0J561MPD
680	128.52	0.22	755	10	12.5	5.0	0.60	493-1704-ND	.41	2.85	UPW0J681MPD
820	154.98	0.22	730	8	15.0	3.5	0.60	493-1705-ND	.45	3.16	UPW0J821MPD
820	154.98	0.22	755	10	12.5	5.0	0.60	493-1706-ND	.45	3.16	UPW0J821MPD6
1000	189	0.22	755	10	12.5	5.0	0.60	493-1707-ND	.50	3.53	UPW0J102MPD
1200	226.8	0.22	995	8	20.0	3.5	0.60	493-1708-ND	.50	3.57	UPW0J122MPD
1200	226.8	0.22	1050	10	16.0	5.0	0.60	493-1709-ND	.50	3.57	UPW0J122MPD6
1500	283.5	0.22	1220	10	20.0	5.0	0.60	493-1710-ND	.69	4.88	UPW0J152MPD
2200	415.8	0.24	1655	12.5	20.0	5.0	0.60	493-1711-ND	.81	6.18	UPW0J222MHD
2200	415.8	0.24	1440	10	25.0	5.0	0.60	493-1712-ND	.81	6.18	UPW0J222MPD6
2700	510.3	0.24	1815	10	31.5	5.0	0.60	493-1713-ND	.91	6.89	UPW0J272MPD
3300	623.7	0.26	1655	12.5	20.0	5.0	0.60	493-1714-ND	.94	7.12	UPW0J332MHD
3900	737.1	0.26	1945	12.5	25.0	5.0	0.60	493-1715-ND	1.12	8.88	UPW0J392MHD
4700	888.3	0.28	2555	16	25.0	7.5	0.80	493-1716-ND	1.39	10.95	UPW0J472MHD
4700	888.3	0.28	2310	12.5	31.5	5.0	0.80	493-1717-ND	1.39	10.95	UPW0J472MHD6
5600	1058.4	0.30	2510	12.5	35.5	5.0	0.80	493-1718-ND	1.40	11.04	UPW0J562MHD
5600	1058.4	0.30	2210	16	20.0	7.5	0.80	493-1719-ND	1.40	11.04	UPW0J562MHD6
6800	1285.2	0.32	2560	16	25.0	7.5	0.80	493-1720-ND	1.45	11.46	UPW0J682MHD
6800	1285.2	0.32	2490	18	20.0	7.5	0.80	493-1721-ND	1.45	11.46	UPW0J682MHD6
8200	1549.8	0.36	3010	16	31.5	7.5	0.80	493-1722-ND	1.77	13.98	UPW0J822MHD
10000	1890	0.40	3150	16	31.5	7.5	0.80	493-1723-ND	1.97	15.90	UPW0J103MHD
10000	1890	0.40	2740	18	25.0	7.5	0.80	493-1724-ND	1.97	15.90	UPW0J103MHD6
12000	2268	0.44	3635	18	31.5	7.5	0.80	493-1725-ND	2.09	16.94	UPW0J123MHD
15000	2835	0.5	3680	18	35.5	7.5	0.80	493-1726-ND	2.40	19.44	UPW0J153MHD
10 VDC Rated Voltage											
22	6.6	0.19	180	5	11.0	2.0	0.50	493-1727-ND	.30	2.10	UPW1A220MDD
22	6.6	0.19	65	4	7.0	1.5	0.45	493-1728-ND	.30	2.10	UPW1A220MDD6
33	9.9	0.19	180	5	11.0	2.0	0.50	493-1729-ND	.30	2.10	UPW1A330MDD
33	9.9	0.19	120	5	7.0	2.0	0.45	493-1730-ND	.30	2.10	UPW1A330MDD6
39	11.7	0.19	120	5	7.0	2.0	0.45	493-1731-ND	.30	2.10	UPW1A390MDD
47	14.1	0.19	180	5	11.0	2.0	0.50	493-1732-ND	.30	2.10	UPW1A470MDD
47	14.1	0.19	120	4	11.0	1.5	0.45	493-1733-ND	.30	2.10	UPW1A470MDD6
82	24.6	0.19	180	5	11.0	2.0	0.50	493-1734-ND	.34	2.35	UPW1A820MDD
82	24.6	0.19	200	6.3	7.0	2.5	0.45	493-1735-ND	.34	2.35	UPW1A820MDD6
100	30	0.19	180	5	11.0	2.0	0.50	493-1736-ND	.34	2.35	UPW1A101MDD
100	30	0.19	235	5	15.0	2.0	0.50	493-1737-ND	.34	2.35	UPW1A101MDD6
150	45	0.19	290	6.3	11.0	2.5	0.50	493-1738-ND	.37	2.55	UPW1A151MED
180	54	0.19	290	6.3	11.0	2.5	0.50	493-1739-ND	.39	2.70	UPW1A181MED
220	66	0.19	290	6.3	11.0	2.5	0.50	493-1740-ND	.39	2.70	UPW1A221MED
220	66	0.19	430	6.3	15.0	2.5	0.50	493-1741-ND	.39	2.70	UPW1A221MED6
330	99	0.19	555	8	11.5	3.5	0.60	493-1742-ND	.40	2.80	UPW1A331MPD
470	141	0.19	555	8	11.5	3.5	0.60	493-1743-ND	.46	3.20	UPW1A471MPD
680	204	0.19	760	10	12.5	5.0	0.60	493-1744-ND	.65	4.59	UPW1A681MPD
680	204	0.19	730	8	15.0	3.5	0.60	493-1745-ND	.65	4.59	UPW1A681MPD6
1000	300	0.19	1050	10	16.0	5.0	0.60	493-1746-ND	.67	4.76	UPW1A102MPD
1000	300	0.19	995	8	20.0	3.5	0.60	493-1747-ND	.67	4.76	UPW1A102MPD6
1200	360	0.19	1220	10	20.0	5.0	0.60	493-1748-ND	.68	4.80	UPW1A122MPD
1500	450	0.19	1220	10	20.0	5.0	0.60	493-1749-ND	.70	4.96	UPW1A152MPD
1500	450	0.19	1440	10	25.0	5.0	0.60	493-1750-ND	.70	4.96	UPW1A152MPD6
2200	660	0.21	1655	12.5	20.0	5.0	0.60	493-1751-ND	.91	6.89	UPW1A222MHD
2200	660	0.21	1815	10	31.5	5.0	0.60	493-1752-ND	.91	6.89	UPW1A222MPD6
2700	810	0.21	1945	12.5	25.0	5.0	0.60	493-1753-ND	1.00	7.64	UPW1A272MHD
3300	990	0.23	1950	12.5	25.0	5.0	0.60	493-1754-ND	1.00	7.89	UPW1A332MHD
3300	990	0.23	2310	12.5	31.5	5.0	0.80	493-1755-ND	1.00	7.89	UPW1A332MHD6
3900	1170	0.23	2510	12.5	35.5	5.0	0.80	493-1756-ND	1.39	10.95	UPW1A392MHD
3900	1170	0.23	2210	16	20.0	7.5	0.80	493-1757-ND	1.39	10.95	UPW1A392MHD6
4700	1410	0.25	2555	16	25.0	7.5	0.80	493-1758-ND	1.45	11.46	UPW1A472MHD
5600	1680	0.27	2560	16	25.0	7.5	0.80	493-1759-ND	1.69	13.35	UPW1A562MHD
5600	1680	0.27	2490	18	20.0	7.5	0.80	493-1760-ND	1.69	13.35	UPW1A562MHD6
6800	2040	0.29	3010	16	31.5	7.5	0.80	493-1761-ND	1.77	13.98	UPW1A682MHD
6800	2040	0.29	2740	18	25.0	7.5	0.80	493-1762-ND	1.77	13.98	UPW1A682MHD6
8200	2460	0.33	3150	16	35.5	7.5	0.80	493-1763-ND	1.97	15.90	UPW1A822MHD
8200	2460	0.33	3635	18	31.5	7.5	0.80	493-1764-ND	1.97	15.90	UPW1A822MHD6
10000	3000	0.37	3680	18	35.5	7.5	0.80	493-1765-ND	2.37	19.14	UPW1A103MHD
15000	4500	0.47	3800	18	40.0	7.5	0.80	493-1766-ND	2.46	19.88	UPW1A153MHD
16 VDC Rated Voltage											
10	4.8	0.16	180	5	11.0	2.0	0.50	493-1767-ND	.30	2.10	UPW1C100MDD
15	7.2	0.16	65	4	7.0	1.5	0.45	493-1768-ND	.30	2.10	UPW1C150MDD
22	10.56	0.16	180	5	11.0	2.0	0.50	493-1769-ND	.30	2.10	UPW1C220MDD
22	10.56	0.16	120	5	7.0	2.0	0.45	493-1770-ND	.30	2.10	UPW1C220MDD6
27	12.96	0.16	120	5	7.0	2.0	0.45	493-1771-ND	.30	2.10	UPW1C270MDD
33	15.84	0.16	180	5	11.0	2.0	0.50	493-1772-ND	.30	2.10	UPW1C330MDD
33	15.84	0.16	200	6.3	7.0	2.5	0.45	493-1773-ND	.30	2.10	UPW1C330MDD6
39	18.72	0.16	120	4	11.0	1.5	0.45	493-1774-ND	.32	2.20	UPW1C390MDD
47	22.56	0.16	180	5	11.0	2.0	0.50	493-1775-ND	.34	2.35	UPW1C470MDD
56	26.88	0.16	180	5	11.0	2.0	0.50	493-1776-ND	.34	2.35	UPW1C560MDD
56	26.88	0.16	200	6.3	7.0	2.5	0.45	493-1777-ND	.34	2.35	UPW1C560MDD6
82	39.36	0.16	235	5	15.0	2.0	0.50	493-1778-ND	.35	2.45	UPW1C820MDD
100	48	0.16	290	6.3	11.0	2.5	0.50	493-1779-ND	.37	2.55	UPW1C101MED
120	57.6	0.16	290	6.3	11.0	2.5	0.50	493-1780-ND	.37	2.55	UPW1C121MED
150	72	0.16	290	6.3	11.0	2.5	0.50	493-1781-ND	.39	2.70	UPW1C151MED
180	86.4	0.16	430	6.3	15.0	2.5	0.50	493-1782-ND	.39	2.70	UPW1C181MED
220	105.6	0.16	555	8	11.5	3.5	0.60	493-1783-ND	.40	2.80	UPW1C221MPD
330	158.4	0.16	555	8	11.5	3.5	0.60	493-1784-ND	.45	3.16	UPW1C331MPD
470	225.6	0.16	760	10	12.5	5.0	0.60	493-1785-ND	.49	3.49	UPW1C471MPD
470	225.6	0.16	730	8	15.0	3.5	0.60	493-1786-ND	.49	3.49	UPW1C471MPD6
680	326.4	0.16	1050	10	16.0	5.0	0.60	493-1787-ND	.65	4.59	UPW1C681MPD
680	326.4	0.16	995	8	20.0	3.5	0.60	493-1788-ND	.65	4.59	UPW1C681MPD6
820	393.6	0.16	1220	10	20.0	5.0	0.60	493-1789-ND	.67	4.76	UPW1C821MPD
1000	480	0.16	1220	10	20.0	5.0	0.60	493-1790-ND	.67	4.76	UPW1C102MPD
1200	576	0.16	1440	10	25.0	5.0	0.60	493-1791-ND	.85	6.27	UPW1C122MPD
1500	720	0.16	1655	12.5	20.0	5.0	0.60	493-1792-ND	.77	5.85	UPW1C152MHD
1500	720	0.16	1815	10	31.5	5.0	0.60	493-1793-ND	.77	5.85	UPW1C152MPD6
2200	1056	0.18	1945	12.5	25.0	5.0	0.60	493-1794-ND	1.00	7.64	UPW1C222MHD
2700	1296	0.18	2310	12.5	31.5	5.0	0.80	493-1795-ND	1.14	9.00	UPW1C272MHD
2700	1296	0.18	2210	16	20.0	7.5	0.80	493-1796-ND	1.14	9.00	UPW1C272MHD6
3300	1584	0.20	2555	16	25.0	7.5	0.80	493-1797-ND	1.16	9.18	UPW1C332MHD
3300	1584	0.20	2510	12.5	35.5	5.0	0.80	493-1798-ND	1.16	9.18	UPW1C332MHD6
3900	1872	0.20	2560	16	25.0	7.5	0.80	493-1799-ND	1.52	12.03	UPW1C392MHD
3900	1872	0.20	2490	18	20.0	7.5	0.80	493-1800-ND	1.52	12.03	UPW1C392MHD6
4700	2256	0.22	3010	16	31.5	7.5	0.80	493-1801-ND	1.77	13.98	UPW1C472MHD
4700	2256	0.22	2740	18	25.0	7.5	0.80	493-1802-ND	1.77	13.98	UPW1C472MHD6
5600	2688	0.24	3150	16	35.5	7.5	0.80	493-1803-ND	1.86	15.04	UPW1C562MHD
5600	2688	0.24	3635	18	31.5	7.5	0.80	493-1804-ND	1.86	15.04	UPW1C562MHD6
6800	3264	0.26	3680	18	35.5	7.5	0.80	493-1805-ND	1.97	15.90	UPW1C682MHD
8200	3936	0.3	3680	18	35.5	7.5	0.80	493-1806-ND	2.18	17.60	UPW1C822MHD
10000	4800	0.34	3800	18	40.0	7.5	0.80	493-1807-ND	2.46	19.88	UPW1C103MHD
25 VDC Rated Voltage											
4.7	4	0.14	180	5	11.0	2.0	0.50	493-1808-ND	.30	2.10	UPW1E4R7MDD
10	7.5	0.14	180	5	11.0	2.0	0.50	493-1809-ND	.30	2.10	UPW1E100MDD
10	7.5	0.14	65	4	7.0	1.5	0.45	493-1810-ND	.30	2.10	UPW1E100MDD6
22	16.5	0.14	180	5	11.0	2.0	0.50	493-1811-ND	.34	2.35	UPW1E220MDD
22	16.5	0.14	120	5	7.0	2.0	0.45	493-1812-ND	.34	2.35	UPW1E220MDD6
27	20.25	0.14	120	4	11.0	1.5	0.45	493-1813-ND	.34	2.35	UPW1E270MDD
33	24.75	0.14	180	5	11.0	2.0	0.50	493-1814-ND	.34	2.35	UPW1E330MDD
39	29.25	0.14	180	5	11.0	2.0	0.50	493-1815-ND	.34	2.35	UPW1E390MDD
39	29.25	0.14	200	6.3	7.0	2.5	0.45	493-1816-ND	.34	2.35	UPW1E390MDD6
47	35.25	0.14	180	5	11.0	2.0	0.50	493-1817-ND	.34	2.35	UPW1E470MDD
56	42	0.14	235	5	15.0	2.0	0.50	493-1818-ND	.37	2.55	UPW1E560MDD
82	61.5	0.14	290	6.3	11.0	2.5	0.50	493-1819-ND	.39	2.70	UPW1E820MED
100	75	0.14	290	6.3	11.0	2.5	0.50	493-1820-ND	.39	2.70	UPW1E101MED
120	90	0.14	430	6.3	15.0	2.5	0.50	493-1821-ND	.40	2.80	UPW1E121MED
150	112.5	0.14	555	8	11.5	3.5	0.60	493-1822-ND	.40	2.80	UPW1E151MPD
220	165	0.14	555	8	11.5	3.5	0.60	493-1823-ND	.41	2.91	UPW1E221MPD
330	247.5	0.14	760	10	12.5	5.0	0.60	493-1824-ND	.41	2.91	UPW1E331MPD
330	247.5	0.14	730	8	15.0	3.5	0.60	493-1825-ND	.41	2.91	UPW1E331MPD6
470	352.5	0.14	1050	10	16.0	5.0	0.60	493-1826-ND	.68	4.80	UPW1E471MPD
470	352.5	0.14	995	8	20.0	3.5	0.60	493-1827-ND	.68	4.80	UPW1E471MPD6
560	420	0.14	1220	10	20.0	5.0	0.60	493-1828-ND	.64	4.73	UPW1E561MPD
680	510	0.14	1220	10	20.0	5.0	0.60	493-1829-ND	.64	4.73	UPW1E681MPD
820	615	0.14	1440	10	25.0	5.0	0.60	493-1830-ND	.85	6.27	UPW1E821MPD
1000	750	0.14	1660	12.5	20.0	5.0	0.60	493-1831-ND	.83	6.09	UPW1E102MHD

(Continued)

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Cap (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Current @100KHz/ 105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
1000	750	0.14	1815	10	31.5	5.0	0.60	493-1832-ND	.83	6.09	UPW1E102MPD6
1500	1125	0.14	2555	16	25.0	7.5	0.80	493-1833-ND	.92	7.02	UPW1E152MHD
1500	1125	0.14	1950	12.5	25.0	5.0	0.60	493-1834-ND	.92	7.02	UPW1E152MHD6
1800	1350	0.14	2310	12.5	31.5	5.0	0.80	493-1835-ND	1.02	8.07	UPW1E182MHD
1800	1350	0.14	2210	16	20.0	7.5	0.80	493-1836-ND	1.02	8.07	UPW1E182MHD6
2200	1650	0.16	2555	16	25.0	7.5	0.80	493-1837-ND	1.07	8.46	UPW1E222MHD
2200	1650	0.022	2510	12.5	35.5	5.0	0.80	493-1838-ND	1.07	8.46	UPW1E222MHD3
2200	1650	0.028	2490	18	20.0	7.5	0.80	493-1839-ND	1.07	8.46	UPW1E222MHD6
2700	2025	0.022	2555	16	25.0	7.5	0.80	493-1840-ND	1.39	10.95	UPW1E272MHD
3300	2475	0.018	3010	16	31.5	7.5	0.80	493-1841-ND	1.45	11.46	UPW1E332MHD
3300	2475	0.020	2740	18	25.0	7.5	0.80	493-1842-ND	1.45	11.46	UPW1E332MHD6
3900	2925	0.016	3150	16	35.5	7.5	0.80	493-1843-ND	1.52	12.03	UPW1E392MHD
3900	2925	0.016	3635	18	31.5	7.5	0.80	493-1844-ND	1.52	12.03	UPW1E392MHD6
4700	3525	0.015	3680	18	35.5	7.5	0.80	493-1845-ND	1.77	13.98	UPW1E472MHD
6800	5100	0.014	3800	18	40.0	7.5	0.80	493-1846-ND	1.97	15.90	UPW1E682MHD
35 VDC Rated Voltage											
4.7	4.935	0.600	180	5	11.0	2.0	0.50	493-1847-ND	.30	2.10	UPW1V4R7MDD
6.8	7.14	2.000	65	4	7.0	1.5	0.45	493-1848-ND	.30	2.10	UPW1V6R8MDD
10	10.5	0.600	180	5	11.0	2.0	0.50	493-1849-ND	.30	2.10	UPW1V100MDD
10	10.5	0.950	120	5	7.0	2.0	0.45	493-1850-ND	.30	2.10	UPW1V100MDD6
12	12.6	0.950	120	5	7.0	2.0	0.45	493-1851-ND	.32	2.25	UPW1V120MDD
18	18.9	1.300	120	4	11.0	1.5	0.45	493-1852-ND	.34	2.35	UPW1V180MDD
22	23.1	0.600	180	5	11.0	2.0	0.50	493-1853-ND	.34	2.35	UPW1V220MDD
27	28.35	0.600	180	5	11.0	2.0	0.50	493-1854-ND	.34	2.35	UPW1V270MDD
27	28.35	0.450	200	6.3	7.0	2.5	0.45	493-1855-ND	.34	2.35	UPW1V270MDD6
33	34.65	0.600	180	5	11.0	2.0	0.50	493-1856-ND	.37	2.55	UPW1V330MDD
39	40.95	0.500	235	5	15.0	2.0	0.50	493-1857-ND	.37	2.55	UPW1V390MDD
47	49.35	0.250	290	6.3	11.0	2.5	0.50	493-1858-ND	.37	2.55	UPW1V470MED
56	58.8	0.250	290	6.3	11.0	2.5	0.50	493-1859-ND	.37	2.55	UPW1V560MED
82	86.1	0.230	430	6.3	15.0	2.5	0.50	493-1860-ND	.39	2.70	UPW1V820MED
100	105	0.117	555	8	11.5	3.5	0.60	493-1861-ND	.39	2.70	UPW1V101MPD
150	157.5	0.117	555	8	11.5	3.5	0.60	493-1862-ND	.43	3.00	UPW1V151MPD
220	231	0.090	760	10	12.5	5.0	0.60	493-1863-ND	.41	2.91	UPW1V221MPD
220	231	0.085	730	8	15.0	3.5	0.60	493-1864-ND	.41	2.91	UPW1V221MPD6
330	346.5	0.068	1050	10	16.0	5.0	0.60	493-1865-ND	.67	4.90	UPW1V331MPD
330	346.5	0.065	995	8	20.0	3.5	0.60	493-1866-ND	.67	4.90	UPW1V331MPD6
390	409.5	0.12	1220	10	20.0	5.0	0.60	493-1867-ND	.67	4.90	UPW1V391MPD
470	493.5	0.12	1220	10	20.0	5.0	0.60	493-1868-ND	.67	4.90	UPW1V471MPD
560	588	0.12	1440	10	25.0	5.0	0.60	493-1869-ND	.77	5.85	UPW1V561MPD
680	714	0.12	1660	12.5	20.0	5.0	0.60	493-1870-ND	.77	5.85	UPW1V681MHD
680	714	0.12	1815	10	31.5	5.0	0.60	493-1871-ND	.77	5.85	UPW1V681MPD6
1000	1050	0.12	1950	12.5	25.0	5.0	0.60	493-1872-ND	.93	7.09	UPW1V102MHD
1200	1260	0.12	2310	12.5	31.5	5.0	0.80	493-1873-ND	1.02	8.07	UPW1V122MHD
1200	1260	0.12	2210	16	20.0	7.5	0.80	493-1874-ND	1.02	8.07	UPW1V122MHD6
1500	1575	0.12	2555	16	25.0	7.5	0.80	493-1875-ND	1.10	8.70	UPW1V152MHD
1500	1575	0.12	2510	12.5	35.5	5.0	0.80	493-1876-ND	1.10	8.70	UPW1V152MHD6
1800	1890	0.12	2555	16	25.0	7.5	0.80	493-1877-ND	1.39	10.95	UPW1V182MHD
1800	1890	0.12	2490	18	20.0	7.5	0.80	493-1878-ND	1.39	10.95	UPW1V182MHD6
2200	2310	0.14	3010	16	31.5	7.5	0.80	493-1879-ND	1.39	10.95	UPW1V222MHD
2200	2310	0.14	2740	18	25.0	7.5	0.80	493-1880-ND	1.39	10.95	UPW1V222MHD6
2700	2835	0.14	3150	16	35.5	7.5	0.80	493-1881-ND	1.52	12.03	UPW1V272MHD
2700	2835	0.14	3635	18	31.5	7.5	0.80	493-1882-ND	1.52	12.03	UPW1V272MHD6
3300	3465	0.16	3680	18	35.5	7.5	0.80	493-1883-ND	1.77	13.98	UPW1V332MHD
4700	4935	0.18	3800	18	40.0	7.5	0.80	493-1884-ND	1.97	15.90	UPW1V472MHD
50 VDC Rated Voltage											
0.47	4	0.1	25	5	11.0	2.0	0.50	493-1885-ND	.30	2.10	UPW1HR47MDD
1	4	0.1	40	5	11.0	2.0	0.50	493-1886-ND	.30	2.10	UPW1H010MDD
2.2	4	0.1	55	5	11.0	2.0	0.50	493-1887-ND	.30	2.10	UPW1H2R2MDD
3.3	4.95	0.1	65	5	11.0	2.0	0.50	493-1888-ND	.30	2.10	UPW1H3R3MDD
4.7	7.05	0.1	90	5	11.0	2.0	0.50	493-1889-ND	.32	2.25	UPW1H4R7MDD
10	15	0.1	120	5	11.0	2.0	0.50	493-1890-ND	.34	2.35	UPW1H100MDD
10	15	0.1	90	4	11.0	1.5	0.45	493-1891-ND	.34	2.35	UPW1H100MDD6
18	27	0.1	155	5	11.0	2.0	0.50	493-1892-ND	.37	2.55	UPW1H180MDD
22	33	0.1	170	5	11.0	2.0	0.50	493-1893-ND	.37	2.55	UPW1H220MDD
27	40.5	0.1	215	5	15.0	2.0	0.50	493-1894-ND	.37	2.55	UPW1H270MDD
33	49.5	0.1	300	6.3	11.0	2.5	0.50	493-1895-ND	.39	2.70	UPW1H330MED
47	70.5	0.1	300	6.3	11.0	2.5	0.50	493-1896-ND	.39	2.70	UPW1H470MED
56	84	0.1	360	6.3	15.0	2.5	0.50	493-1897-ND	.40	2.80	UPW1H560MED
82	123	0.1	485	8	11.5	3.5	0.60	493-1898-ND	.41	2.91	UPW1H820MPD
100	150	0.1	485	8	11.5	3.5	0.60	493-1899-ND	.41	2.91	UPW1H101MPD
120	180	0.1	635	8	15.0	3.5	0.60	493-1900-ND	.41	2.91	UPW1H121MPD
120	180	0.1	620	10	12.5	5.0	0.60	493-1901-ND	.41	2.91	UPW1H121MPD6
150	225	0.1	615	10	12.5	5.0	0.60	493-1902-ND	.49	3.49	UPW1H151MPD
180	270	0.1	860	8	20.0	3.5	0.60	493-1903-ND	.49	3.49	UPW1H181MPD
180	270	0.1	850	10	16.0	5.0	0.60	493-1904-ND	.49	3.49	UPW1H181MPD6
220	330	0.1	850	10	16.0	5.0	0.60	493-1905-ND	.49	3.49	UPW1H221MPD
220	330	0.1	1030	10	20.0	5.0	0.60	493-1906-ND	.49	3.49	UPW1H221MPD6
270	405	0.1	1200	10	25.0	5.0	0.60	493-1907-ND	.67	4.90	UPW1H271MPD
330	495	0.1	1030	10	20.0	5.0	0.60	493-1908-ND	.67	4.90	UPW1H331MPD
330	495	0.1	1610	10	31.5	5.0	0.60	493-1909-ND	.67	4.90	UPW1H331MPD6
390	585	0.1	1480	12.5	20.0	5.0	0.60	493-1910-ND	.77	5.85	UPW1H391MHD
470	705	0.1	1500	12.5	20.0	5.0	0.60	493-1911-ND	.78	5.95	UPW1H471MHD
560	840	0.1	1832	12.5	25.0	5.0	0.60	493-1912-ND	.96	7.28	UPW1H561MHD
680	1020	0.1	1840	12.5	25.0	5.0	0.60	493-1913-ND	.96	7.28	UPW1H681MHD
680	1020	0.1	1840	16	20.0	7.5	0.80	493-1914-ND	.96	7.28	UPW1H681MHD6
820	1230	0.1	2290	12.5	35.5	5.0	0.80	493-1915-ND	1.02	8.07	UPW1H821MHD
820	1230	0.1	2420	18	20.0	7.5	0.80	493-1916-ND	1.02	8.07	UPW1H821MHD6
1000	1500	0.1	2235	16	25.0	7.5	0.80	493-1917-ND	1.02	8.07	UPW1H102MHD
1200	1800	0.1	2700	16	31.5	7.5	0.80	493-1918-ND	1.52	12.03	UPW1H122MHD
1200	1800	0.1	2610	18	25.0	7.5	0.80	493-1919-ND	1.52	12.03	UPW1H122MHD6
1500	2250	0.1	2700	16	31.5	7.5	0.80	493-1920-ND	1.52	12.03	UPW1H152MHD
1500	2250	0.1	2790	16	35.5	7.5	0.80	493-1921-ND	1.52	12.03	UPW1H152MHD6
1800	2700	0.1	3000	18	31.5	7.5	0.80	493-1922-ND	1.77	13.98	UPW1H182MHD
2200	3300	0.12	3100	18	35.5	7.5	0.80	493-1923-ND	1.71	13.86	UPW1H222MHD
63 VDC Rated Voltage											
4.7	8.883	0.09	68	5	11.0	2.0	0.50	493-1924-ND	.34	2.35	UPW1J4R7MDD
6.8	12.852	0.09	95	5	11.0	2.0	0.50	493-1925-ND	.34	2.35	UPW1J6R8MDD
6.8	12.852	0.09	80	4	11.0	1.5	0.45	493-1926-ND	.34	2.35	UPW1J6R8MDD6
10	18.9	0.09	110	5	11.0	2.0	0.50	493-1927-ND	.34	2.35	UPW1J100MDD
12	22.68	0.09	145	5	11.0	2.0	0.50	493-1928-ND	.37	2.55	UPW1J120MDD
15	28.35	0.09	160	6.3	11.0	2.5	0.50	493-1929-ND	.39	2.70	UPW1J150MED
18	34.02	0.09	200	5	15.0	2.0	0.50	493-1930-ND	.39	2.70	UPW1J180MDD
22	41.58	0.09	250	6.3	11.0	2.5	0.50	493-1931-ND	.39	2.70	UPW1J220MED
33	62.37	0.09	250	6.3	11.0	2.5	0.50	493-1932-ND	.39	2.70	UPW1J330MED
39	73.71	0.09	330	6.3	15.0	2.5	0.50	493-1933-ND	.40	2.75	UPW1J390MED
47	88.83	0.09	405	8	11.5	3.5	0.60	493-1934-ND	.43	3.00	UPW1J470MPD
68	128.52	0.09	405	8	11.5	3.5	0.60	493-1935-ND	.45	3.16	UPW1J680MPD
100	189	0.09	540	10	12.5	5.0	0.60	493-1936-ND	.49	3.49	UPW1J101MPD
100	189	0.09	535	8	15.0	3.5	0.60	493-1937-ND	.49	3.49	UPW1J101MPD6
120	226.8	0.09	600	10	16.0	5.0	0.60	493-1938-ND	.60	4.22	UPW1J121MPD
150	283.5	0.09	660	10	16.0	5.0	0.60	493-1939-ND	.60	4.22	UPW1J151MPD
180	340.2	0.09	1020	12.5	15.0	5.0	0.60	493-1940-ND	.70	5.18	UPW1J181MHD6
180	340.2	0.09	890	10	20.0	5.0	0.60	493-1941-ND	.70	5.18	UPW1J181MPD
220	415.8	0.09	885	10	20.0	5.0	0.60	493-1942-ND	.85	6.27	UPW1J221MPD
220	415.8	0.09	1050	10	25.0	5.0	0.60	493-1943-ND	.85	6.27	UPW1J221MPD6
270	510.3	0.09	1410	16	15.0	7.5	0.80	493-1944-ND	.77	5.85	UPW1J271MHD
330	623.7	0.09	1290	12.5	20.0	5.0	0.60	493-1945-ND	.77	5.85	UPW1J331MHD
390	737.1	0.09	1720	12.5	25.0	5.0	0.60	493-1946-ND	.96	7.28	UPW1J391MHD
390	737.1	0.09	1690	18	15.0	7.5	0.80	493-1947-ND	.96	7.28	UPW1J391MHD6
470	888.3	0.09	1720	12.5	25.0	5.0	0.60	493-1948-ND	.96	7.28	UPW1J471MHD
470	888.3	0.09	1770	16	20.0	7.5	0.80	493-1949-ND	.96	7.28	UPW1J471MHD3
470	888.3	0.09	2090	12.5	31.5	5.0	0.80	493-1950-ND	.96	7.28	UPW1J471MHD6
680	1285.2	0.09	2160	16	25.0	7.5	0.80	493-1951-ND	1.02	8.07	UPW1J681MHD
680	1285.2	0.09	2290	18	20.0	7.5	0.80	493-1952-ND	1.02	8.07	UPW1J681MHD3
680	1285.2	0.09	2270	12.5	35.5	5.0	0.80	493-1953-ND	1.02	8.07	UPW1J681MHD6
820	1549.8	0.09	2670	16	31.5	7.5	0.80	493-1954-ND	1.52	12.03	UPW1J821MHD
820	1549.8	0.09	2590	18	25.0	7.5	0.80	493-1955-ND	1.52	12.03	UPW1J821MHD6
1000	1890	0.09	2770	16	31.5	7.5	0.80	493-1956-ND	1.52	12.03	UPW1J102MHD
1000	1890	0.09	2770	16	35.5	7.5	0.80	493-1957-ND	1.52	12.03	UPW1J102MHD6
1200	2268	0.09	2950	18	31.5	7.5	0.80	493-1958-ND	1.77	13.98	UPW1J122MHD
1500	2835	0.09	3100	18	35.5	7.5	0.80	493-1959-ND	1.71	13.86	UPW1J152MHD
2200	4158	0.11	3200	18	40.0	7.5	0.80	493-1960-ND	1.97	15.90	UPW1J222MHD
100 VDC Rated Voltage											
0.47	4	0.08	20	5	11.0	2.0	0.50	493-1961-ND	.34	2.35	UPW2AR47MDD
1	4	0.08	30	5	11.0	2.0	0.50	493-1962-ND	.34	2.35	UPW2A010MDD
2.2	6.6	0.08	44	5	11.0	2.0	0.50	493-1963-ND	.34	2.35	UPW2A2R2MDD
3.3	9.9	0.08	58	5	11.0	2.0	0.50	493-1964-ND	.37	2.55	UPW2A3R3MDD
4.7	14.1	0.08	74	5	11.0	2.0	0.50	493-1965-ND	.37	2.55	UPW2A4R7MDD
6.8	20.4	0.08	95	5	11.0	2.0	0.50	493-1966-ND	.37	2.55	UPW2A6R8MDD
10	30	0.08	130	6.3	11.0	2.5	0.50	493-1967-ND	.39	2.70	UPW2A100MED
15	45	0.08	180	8	11.5	3.5	0.60	493-1968-ND	.43	3.00	UPW2A150MPD
18	54	0.08	200	6.3	15.0	2.5	0.50	493-1969-ND	.43	3.00	UPW2A180MED
22	66	0.08	230	8	11.5	3.5	0.60	493-1970-ND	.45	3.16	UPW2A220MPD
33	99	0.08	320	10	12.5	5.0	0.60	493-1971-ND	.49	3.49	UPW2A330MPD
33	99	0.08	360	8	15.0	3.5	0.60	493-1972-ND	.49	3.49	UPW2A330MPD6
47	141	0.08	420	10	16.0	5.0	0.60	493-1973-ND	.60	4.22	UPW2A470MPD
47	141	0.08	420	8	20.0	3.5	0.60	493-1974-ND	.60	4.22	UPW2A470MPD6
68	204	0.08	490	10	20.0	5.0	0.60	493-1975-ND	.70	5.18	UPW2A680MPD
82	246	0.08	540	10	25.0	5.0	0.60	493-1976-ND	.85	6.27	UPW2A820MPD
100	300	0.08	580	12.5	20.0	5.0	0.60	493-1977-ND	.77	5.85	UPW2A101MHD
150	450	0.08	710	12.5	25.0	5.0	0.60	493-1978-ND	.89	6.79	UPW2A151MHD
180	540	0.08	790	12.5	31.5	5.0	0.80	493-1979-ND	.89	6.79	UPW2A181MHD
180	540	0.08	750	16	20.0	7.5	0.80	493-1980-ND	.89	6.79	UPW2A181MHD6
220	660	0.08	890	16	25.0	7.5	0.80	493-1981-ND	1.03	8.10	UPW2A221MHD
220	660	0.08	850	18	20.0	7.5	0.80	493-1982-ND	1.03	8.10	UPW2A221MHD6
330	990	0.08	1080	16	25.0	7.5	0.80	493-1983-ND	1.36	10.77	UPW2A331MHD
390	1170	0.08	1260	18	25.0	7.5	0.80	493-1984-ND	1.44	11.34	UPW2A391MHD
470	1410	0.08	1310	16	31.5	7.5	0.80	493-1985-ND	1.52	12.00	UPW2A471MHD
560	1680	0.08	1370	18	31.5	7.5	0.80	493-1986-ND	2.00	16.20	UPW2A561MHD
680	2040	0.08	1410	16	35.5	7.5	0.80	493-1987-ND	1.71	13.86	UPW2A681MHD
1000	3000	0.08	1520	18	40.0	7.5	0.80	493-1988-ND	2.57	20.82	UPW2A102MHD
160 VDC Rated Voltage											
0.47	47.52	0.15	12	6.3	11.0	2.5	0.50	493-1989-ND	.39	2.70	UPW2CR47MED
1	56	0.15	17	6.3	11.0	2.5	0.50	493-1990-ND	.39	2.70	UPW2C010MED
2.2	75.2	0.15	25	6.3	11.0	2.5	0.50	493-1991-ND	.43	3.00	UPW2C2R2MED
3.3	92.8	0.15	36	8	11.5	3.5	0.60	493-1992-ND	.45	3.20	UPW2C3R3MPD
4.7	115.2	0.15	43	8	11.5	3.5	0.60	493-1993-ND	.45	3.20	UPW2C4R7MPD
10	200	0.15	70	10	12.5	5.0	0.60	493-1994-ND	.55	3.85	UPW2C100MPD
22	392	0.15	130	10	20.0	5.0	0.60	493-1995-ND	.64	4.73	UPW2C220MPD
33	568	0.15	180	12.5	20.0	5.0	0.60	493-1996-ND	.78	5.78	UPW2C330MHD
47	792	0.15	220	12.5	25.0	5.0	0.60	493-1997-ND	.83	6.34	UPW2C470MHD
100	1640	0.15	330	16	25.0	7.5	0.80	493-1998-ND	1.09	8.61	UPW2C101MHD
220	3560	0.15	500	18	35.5	7.5	0.80	493-1999-ND	1.80	14.55	UPW2C221MHD
220	3560	0.15	500	20	31.0	10.0	1.00	493-2000-ND	1.80	14.55	UPW2C221MRD6
330	5320	0.15	900	20	40.0	10.0	1.00	493-2001-ND	2.36	19.06	UPW2C331MRD
470	7560	0.15	1200	22	50.0	10.0	1.00	493-2002-ND	3.24	26.13	UPW2C471MRD
200 VDC Rated Voltage											
0.47	49.4	0.15	12	6.3	11.0	2.5	0.50	493-2003-ND	.40	2.80	UPW2DR47MED
1	60	0.15	17	6.3	11.0	2.5	0.50	493-2004-ND	.40	2.80	UPW2D010MED
2.2	84	0.15	25	6.3	11.0	2.5	0.50	493-2005-ND	.42	2.99	UPW2D2R2MED
3.3	106	0.15	36	8	11.5	3.5	0.60	493-2006-ND	.45	3.20	UPW2D3R3MPD
4.7	134	0.15	50	10	12.5	5.0	0.60	493-2007-ND	.49	3.49	UPW2D4R7MPD
10	240	0.15	80	10	16.0	5.0	0.60	493-2008-ND	.61	4.35	UPW2D100MPD
22	480	0.15	140	10	20.0	5.0	0.60	493-2009-ND	.78	5.78	UPW2D220MPD
33	700	0.15	190	12.5	25.0	5.0	0.60	493-2010-ND	.83	6.34	UPW2D330MHD
47	980	0.15	220	12.5	25.0	5.0	0.60	493-2011-ND	.88	6.70	UPW2D470MHD
100	2040	0.15	335	16	31.5	7.5	0.80	493-2012-ND	1.74	13.74	UPW2D101MHD
220	4440	0.15	515	18	40.0	7.5	0.80	493-2013-ND	2.16	17.49	UPW2D221MHD
220	4440	0.15	515	20	35.0	10.0	1.00	493-2014-ND	2.16	17.49	UPW2D221MRD6
330	6640	0.15	1100	22	40.0	10.0	1.00	493-2015-ND	3.41	27.50	UPW2D331MRD
470	9440	0.15	1310	22	50.0	10.0	1.00	493-2016-ND	4.19	33.80	UPW2D471MRD
250 VDC Rated Voltage											
0.47	51.75	0.15	12	6.3	11.0	2.5	0.50	493-2017-ND	.43	3.00	UPW2ER47MED
1	65	0.15	17	6.3	11.0	2.5	0.50	493-2018-ND	.43	3.00	UPW2E010MED
2.2	95	0.15	29	8	11.5	3.5	0.60	493-2019-ND	.45	3.20	UPW2E2R2MPD
3.3	122.5	0.15	42	10	12.5	5.0	0.60	493-2020-ND	.48	3.40	UPW2E3R3MPD
4.7	157.5	0.15	50	10	12.5	5.0	0.60	493-2021-ND	.54	3.81	UPW2E4R7MPD
10	290	0.15	88	10	20.0	5.0	0.60	493-2022-ND	.64	4.73	UPW2E100MPD
22	590	0.15	155	12.5	25.0	5.0	0.60	493-2023-ND	.78	5.78	UPW2E220MHD
33	865	0.15	190	12.5	25.0	5.0	0.60	493-2024-ND	.83	6.34	UPW2E330MHD
47	1215	0.15	230	16	25.0	7.5	0.80	493-2025-ND	1.09	8.61	UPW2E470MHD
100	2540	0.15	340	18	35.5	7.5	0.80	493-2026-ND	1.80	14.55	UPW2E101MHD
100	2540	0.15	340	20	31.0	10.0	1.00	493-2027-ND	1.80	14.55	UPW2E101MRD6
220	5540	0.15	525	20	40.0	10.0	1.00	493-2028-ND	2.45	19.86	UPW2E221MRD
330	8290	0.15	1150	22	50.0	10.0	1.00	493-2029-ND	4.02	32.40	UPW2E331MRD
470	11790	0.15	1350	25	50.0	12.5	1.00	493-2030-ND	4.18	37.58	UPW2E471MRD
315 VDC Rated Voltage											
0.47	54.805	0.2	11	8	11.5	3.5	0.60	493-2031-ND	.42	2.99	UPW2FR47MPD
1	71.5	0.2	16	8	11.5	3.5	0.60	493-2032-ND	.42	2.99	UPW2F010MPD
2.2	109.3	0.2	28	10	12.5	5.0	0.60	493-2033-ND	.48	3.40	UPW2F2R2MPD
3.3	143.95	0.2	34	10	12.5	5.0	0.60	493-2034-ND	.50	3.57	UPW2F3R3MPD
10	355	0.2	72	10	20.0	5.0	0.60	493-2036-ND	.65	4.80	UPW2F100MPD

(Continued)

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Cap (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Current @100KHz/ 105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
22	733	0.2	120	12.5	25.0	5.0	0.60	493-2037-ND	.82	6.06	UPW2F220MHD
33	1079.5	0.2	155	16	25.0	7.5	0.80	493-2038-ND	1.15	9.06	UPW2F330MHD
47	1520.5	0.2	190	16	35.5	7.5	0.80	493-2039-ND	1.74	13.74	UPW2F470MHD
100	3190	0.2	285	18	40.0	7.5	0.80	493-2040-ND	2.10	16.97	UPW2F101MHD
100	3190	0.2	285	20	35.0	10.0	1.00	493-2041-ND	2.10	16.97	UPW2F101MRD6
220	6970	0.2	540	22	50.0	10.0	1.00	493-2042-ND	3.76	33.86	UPW2F221MRD
350 VDC Rated Voltage											
0.47	56.45	0.2	11	8	11.5	3.5	0.60	493-2043-ND	.43	3.03	UPW2VR47MPD
1	75	0.2	17	10	12.5	5.0	0.60	493-2044-ND	.48	3.40	UPW2V010MPD
2.2	117	0.2	31	10	16.0	5.0	0.60	493-2045-ND	.52	3.65	UPW2V2R2MPD
3.3	155.5	0.2	38	10	16.0	5.0	0.60	493-2046-ND	.61	4.35	UPW2V3R3MPD
4.7	204.5	0.2	49	10	20.0	5.0	0.60	493-2047-ND	.73	5.36	UPW2V4R7MPD
10	390	0.2	82	12.5	20.0	5.0	0.60	493-2048-ND	.84	6.20	UPW2V100MHD
22	810	0.2	130	16	25.0	7.5	0.80	493-2049-ND	1.09	8.61	UPW2V220MHD
33	1195	0.2	160	16	31.5	7.5	0.80	493-2050-ND	1.35	10.65	UPW2V330MHD
47	1685	0.2	200	18	35.5	7.5	0.80	493-2051-ND	1.80	14.55	UPW2V470MHD
47	1685	0.2	200	20	31.0	10.0	1.00	493-2052-ND	1.80	14.55	UPW2V470MRD6
100	3540	0.2	290	20	40.0	10.0	1.00	493-2053-ND	2.45	19.86	UPW2V101MRD
220	7740	0.2	550	25	50.0	12.5	1.00	493-2054-ND	4.37	39.31	UPW2V221MRD
400 VDC Rated Voltage											
1	80	0.25	16	10	12.5	5.0	0.60	493-2055-ND	.53	3.73	UPW2G010MPD
2.2	128	0.25	27	10	16.0	5.0	0.60	493-2056-ND	.63	4.43	UPW2G2R2MPD
3.3	172	0.25	36	10	20.0	5.0	0.60	493-2057-ND	.73	5.13	UPW2G3R3MPD
4.7	228	0.25	43	10	20.0	5.0	0.60	493-2058-ND	.78	5.78	UPW2G4R7MPD
10	440	0.25	72	12.5	25.0	5.0	0.60	493-2059-ND	.83	6.34	UPW2G100MHD
22	920	0.25	110	16	25.0	7.5	0.80	493-2060-ND	1.27	10.05	UPW2G220MHD
33	1360	0.25	140	16	31.5	7.5	0.80	493-2061-ND	1.74	13.74	UPW2G330MHD
47	1920	0.25	170	18	35.5	7.5	0.80	493-2062-ND	2.09	16.91	UPW2G470MHD
47	1920	0.25	170	20	31.0	10.0	1.00	493-2063-ND	2.09	16.91	UPW2G470MRD6
100	4040	0.25	350	22	50.0	10.0	1.00	493-2064-ND	3.51	28.33	UPW2G101MRD
450 VDC Rated Voltage											
1	85	0.25	18	10	12.5	5.0	0.60	493-2065-ND	.53	3.77	UPW2W010MPD
2.2	139	0.25	29	10	20.0	5.0	0.60	493-2066-ND	.73	5.13	UPW2W2R2MPD
3.3	188.5	0.25	41	12.5	20.0	5.0	0.60	493-2067-ND	.78	5.78	UPW2W3R3MHD
4.7	251.5	0.25	49	12.5	20.0	5.0	0.60	493-2068-ND	.80	6.05	UPW2W4R7MHD
10	490	0.25	75	16	25.0	7.5	0.80	493-2069-ND	1.09	8.61	UPW2W100MHD
22	1030	0.25	115	16	31.5	7.5	0.80	493-2070-ND	1.51	11.94	UPW2W220MHD
33	1525	0.25	145	18	35.5	7.5	0.80	493-2071-ND	2.09	16.91	UPW2W330MHD
33	1525	0.25	145	20	31.0	10.0	1.00	493-2072-ND	2.09	16.91	UPW2W330MRD6
47	2155	0.25	175	20	40.0	10.0	1.00	493-2073-ND	2.45	19.86	UPW2W470MRD
100	4540	0.25	350	25	50.0	12.5	1.00	493-2074-ND	3.85	34.63	UPW2W101MRD

HE Series Aluminum Electrolytic Capacitors (Radial Lead)

Extremely Low Impedance, High Reliability 105°C

FEATURES:

- Miniature sized
- Extremely low impedance
- High reliability and long life withstanding 4,000 hours to 10,000 hours.

SPECIFICATIONS:

Temperature Range	-40°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C

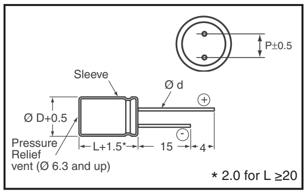

- **Leakage Current:** After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.
- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio ZT / Z20 (Max.)	Z-20°C / Z+20°C	4	3	2	2	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3

- **Endurance:** After an application of D.C bias voltage plus the rated ripple current for stated hours in the below chart at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors shall meet the following requirements.

Case Size		ϕD ≤ 6.3	ϕD = 8,10	ϕD ≥ 12.5
Rated Voltage (V)	6.3 to 10WV	4,000 hours	6,000 hours	8,000 hours
	16 to 100WV	5,000 hours	7,000 hours	10,000 hours
Capacitance Change	Within ±25% of initial value			
tan δ	200% or less of initial specified value			
Leakage Current	Initial specified value or less			

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above. • **Marking:** Printed with white color letter on black sleeve.

Cap. (µF)	Leakage Current (µA)	tan δ Max. 120Hz @/20°C	Rated Ripple Current @ 100kHz /105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
6.3 VDC Rated Voltage											
150	9.45	0.22	210	5.0	11.0	2.0	0.5	493-1463-ND	.29	2.00	UHE0J151MDD
330	20.79	0.22	340	6.3	11.0	2.5	0.5	493-1464-ND	.38	2.65	UHE0J331MED
680	42.84	0.22	640	8.0	11.5	3.5	0.6	493-1465-ND	.46	3.28	UHE0J681MPD
820	51.66	0.22	865	10.0	12.5	5.0	0.6	493-1466-ND	.49	3.44	UHE0J821MPD
1000	63	0.22	840	8.0	15.0	3.5	0.6	493-1467-ND	.52	3.65	UHE0J102MPD
1200	75.6	0.22	1050	8.0	20.0	3.5	0.6	493-1468-ND	.59	4.14	UHE0J122MPD
1200	75.6	0.22	1210	10.0	16.0	5.0	0.6	493-1469-ND	.59	4.14	UHE0J122MPD6
1500	94.5	0.22	1400	10.0	20.0	5.0	0.6	493-1470-ND	.63	4.47	UHE0J152MPD
1800	113.4	0.22	1450	12.5	15.0	5.0	0.6	493-1471-ND	.68	4.84	UHE0J182MHD
2200	138.6	0.24	1650	10.0	25.0	5.0	0.6	493-1472-ND	.67	4.94	UHE0J222MPD
2700	170.1	0.24	1910	10.0	31.5	5.0	0.6	493-1473-ND	.78	5.95	UHE0J272MPD6
2700	170.1	0.24	1940	16.0	15.0	7.5	0.8	493-1474-ND	.78	5.95	UHE0J272MHD
3300	207.9	0.26	1900	12.5	20.0	5.0	0.6	493-1475-ND	.81	6.14	UHE0J332MHD
3900	245.7	0.26	2230	12.5	25.0	5.0	0.6	493-1476-ND	.96	7.28	UHE0J392MHD
3900	245.7	0.26	2210	18.0	15.0	7.5	0.8	493-1477-ND	.96	7.28	UHE0J392MHD6
4700	296.1	0.28	2650	12.5	31.5	5.0	0.8	493-1478-ND	.98	7.44	UHE0J472MHD
5600	352.8	0.3	2880	12.5	35.5	5.0	0.8	493-1479-ND	1.10	8.67	UHE0J562MHD
5600	352.8	0.3	2530	16.0	20.0	7.5	0.8	493-1480-ND	1.10	8.67	UHE0J562MHD6
6800	428.4	0.32	3350	12.5	40.0	5.0	0.8	493-1481-ND	1.11	8.79	UHE0J682MHD
6800	428.4	0.32	2930	16.0	25.0	7.5	0.8	493-1482-ND	1.11	8.79	UHE0J682MHD6
6800	428.4	0.32	2860	18.0	20.0	7.5	0.8	493-1483-ND	1.11	8.79	UHE0J682MHD3
8200	516.6	0.36	3450	16.0	31.5	7.5	0.8	493-1484-ND	1.62	12.78	UHE0J822MHD
10000	630	0.4	3610	16.0	35.5	7.5	0.8	493-1485-ND	1.62	12.78	UHE0J103MHD
10000	630	0.4	3140	18.0	25.0	7.5	0.8	493-1486-ND	1.62	12.78	UHE0J103MHD6
12000	756	0.44	4080	16.0	40.0	7.5	0.8	493-1487-ND	1.89	14.94	UHE0J123MHD
12000	756	0.44	4170	18.0	31.5	7.5	0.8	493-1488-ND	1.89	14.94	UHE0J123MHD6
15000	945	0.5	4220	18.0	35.5	7.5	0.8	493-1489-ND	1.79	14.47	UHE0J153MHD
18000	1134	0.56	4280	18.0	40.0	7.5	0.8	493-1490-ND	1.89	15.32	UHE0J183MHD
10 VDC Rated Voltage											
100	10	0.19	210	5.0	11.0	2.0	0.5	493-1491-ND	.32	2.16	UHE1A101MDD
220	22	0.19	340	6.3	11.0	2.5	0.5	493-1492-ND	.40	2.75	UHE1A221MED
470	47	0.19	640	8.0	11.5	3.5	0.6	493-1493-ND	.46	3.28	UHE1A471MPD
680	68	0.19	840	8.0	15.0	3.5	0.6	493-1494-ND	.49	3.44	UHE1A681MPD
680	68	0.19	865	10.0	12.5	5.0	0.6	493-1495-ND	.49	3.44	UHE1A681MPD6
1000	100	0.19	1050	8.0	20.0	3.5	0.6	493-1496-ND	.64	4.51	UHE1A102MPD
1000	100	0.19	1210	10.0	16.0	5.0	0.6	493-1497-ND	.64	4.51	UHE1A102MPD6
1200	120	0.19	1400	10.0	20.0	5.0	0.6	493-1498-ND	.73	5.17	UHE1A122MPD
1500	150	0.19	1650	10.0	25.0	5.0	0.6	493-1499-ND	.62	4.55	UHE1A152MPD
1500	150	0.19	1450	12.5	15.0	5.0	0.6	493-1500-ND	.62	4.55	UHE1A152MHD6
2200	220	0.21	1910	10.0	31.5	5.0	0.6	493-1501-ND	.78	5.95	UHE1A222MPD
2200	220	0.21	1900	12.5	20.0	5.0	0.6	493-1502-ND	.78	5.95	UHE1A222MHD6
2200	220	0.21	1940	16.0	15.0	7.5	0.8	493-1503-ND	.78	5.95	UHE1A222MHD3
2700	270	0.21	2210	18.0	15.0	7.5	0.8	493-1504-ND	.88	6.70	UHE1A272MHD
3300	330	0.23	2230	12.5	25.0	5.0	0.6	493-1505-ND	.96	7.28	UHE1A332MHD
3900	390	0.23	2650	12.5	31.5	5.0	0.8	493-1506-ND	1.10	8.67	UHE1A392MHD
3900	390	0.23	2530	16.0	20.0	7.5	0.8	493-1507-ND	1.10	8.67	UHE1A392MHD6
4700	470	0.25	2880	12.5	35.5	5.0	0.8	493-1508-ND	1.10	8.67	UHE1A472MHD
5600	560	0.27	3350	12.5	40.0	5.0	0.8	493-1509-ND	1.54	12.15	UHE1A562MHD
5600	560	0.27	2930	16.0	25.0	7.5	0.8	493-1510-ND	1.54	12.15	UHE1A562MHD6
5600	560	0.27	2860	18.0	20.0	7.5	0.8	493-1511-ND	1.54	12.15	UHE1A562MHD3
6800	680	0.29	3450	16.0	31.5	7.5	0.8	493-1512-ND	1.62	12.78	UHE1A682MHD
6800	680	0.29	3140	18.0	25.0	7.5	0.8	493-1513-ND	1.62	12.78	UHE1A682MHD6
8200	820	0.33	3610	16.0	35.5	7.5	0.8	493-1514-ND	1.89	14.94	UHE1A822MHD
8200	820	0.33	4170	18.0	31.5	7.5	0.8	493-1515-ND	1.89	14.94	UHE1A822MHD6
10000	1000	0.37	4080	16.0	40.0	7.5	0.8	493-1516-ND	1.78	14.38	UHE1A103MHD
10000	1000	0.37	4220	18.0	35.5	7.5	0.8	493-1517-ND	1.78	14.38	UHE1A103MHD6
12000	1200	0.41	4280	18.0	40.0	7.5	0.8	493-1518-ND	1.88	15.18	UHE1A123MHD
16 VDC Rated Voltage											
56	8.96	0.16	210	5.0	11.0	2.0	0.5	493-1519-ND	.32	2.25	UHE1C560MDD
120	19.2	0.16	340	6.3	11.0	2.5	0.5	493-1520-ND	.32	2.25	UHE1C121MED
330	52.8	0.16	640	8.0	11.5	3.5	0.6	493-1521-ND	.49	3.44	UHE1C331MPD
470	75.2	0.16	840	8.0	15.0	3.5	0.6	493-1522-ND	.50	3.53	UHE1C471MPD
470	75.2	0.16	865	10.0	12.5	5.0	0.6	493-1523-ND	.50	3.53	UHE1C471MPD6
680	108.8	0.16	1050	8.0	20.0	3.5	0.6	493-1524-ND	.73	5.17	UHE1C681MPD
680	108.8	0.16	1210	10.0	16.0	5.0	0.6	493-1525-ND	.73	5.17	UHE1C681MPD6
1000	160	0.16	1400	10.0	20.0	5.0	0.6	493-1526-ND	.67	4.94	UHE1C102MPD
1000	160	0.16	1450	12.5	15.0	5.0	0.6	493-1527-ND	.67	4.94	UHE1C102MHD6
1200	192	0.16	1650	10.0	25.0	5.0	0.6	493-1528-ND	.82	6.21	UHE1C122MPD
1500	240	0.16	1910	10.0	31.5	5.0	0.6	493-1529-ND	.82	6.21	UHE1C152MPD
1500	240	0.16	1900	12.5	20.0	5.0	0.6	493-1530-ND	.82	6.21	UHE1C152MHD6
1500	240	0.16	1940	16.0	15.0	7.5	0.8	493-1531-ND	.82	6.21	UHE1C152MHD3
2200	352	0.18	2230	12.5	25.0	5.0	0.6	493-1532-ND	.99	7.51	UHE1C222MHD
2200	352	0.18	2210	18.0	15.0	7.5	0.8	493-1533-ND	.99	7.51	UHE1C222MHD6
2700	432	0.18	2650	12.5	31.5	5.0	0.8	493-1534-ND	1.10	8.67	UHE1C272MHD
2700	432	0.18	2530	16.0	20.0	7.5	0.8	493-1535-ND	1.10	8.67	UHE1C272MHD6
3300	528	0.20	2880	12.5	35.5	5.0	0.8	493-1536-ND	1.14	9.03	UHE1C332MHD
3900	624	0.20	3350	12.5	40.0	5.0	0.8	493-1537-ND	1.14	9.03	UHE1C392MHD
3900	624	0.20	2930	16.0	25.0	7.5	0.8	493-1538-ND	1.14	9.03	UHE1C392MHD6
3900	624	0.20	2860	16.0	20.0	7.5	0.8	493-1539-ND	1.14	9.03	UHE1C392MHD3
4700	752	0.22	3450	16.0	31.5	7.5	0.8	493-1540-ND	1.54	12.15	UHE1C472MHD
4700	752	0.22	3140	18.0	25.0	7.5	0.8	493-1541-ND	1.54	12.15	UHE1C472MHD6
5600	896	0.24	3610	16.0	35.5	7.5	0.8	493-1542-ND	1.89	14.94	UHE1C562MHD
5600	896	0.24	4170	18.0	31.5	7.5	0.8	493-1543-ND	1.89	14.94	UHE1C562MHD6
6800	1088	0.26	4080	16.0	40.0	7.5	0.8	493-1544-ND	1.78	14.38	UHE1C682MHD
8200	1312	0.30	4220	18.0	35.5	7.5	0.8	493-1545-ND	1.78	14.38	UHE1C822MHD
10000	1600	0.34	4280	18.0	40.0	7.5	0.8	493-1546-ND	2.16	17.49	UHE1C103MHD
25 VDC Rated Voltage											
47	11.75	0.14	210	5.0	11.0	2.0	0.5	493-1547-ND	.32	2.25	UHE1E470MDD
100	25	0.14	340	6.3	11.0	2.5	0.5	493-1548-ND	.42	2.90	UHE1E101MED
220	55	0.14	640	8.0	11.5	3.5	0.6	493-1549-ND	.49	3.44	UHE1E221MPD
330	82.5	0.14	840	8.0	15.0	3.5	0.6	493-1550-ND	.45	3.20	UHE1E331MPD
330	82.5	0.14	865	10.0	12.5	5.0	0.6	493-1551-ND	.45	3.20	UHE1E331MPD6
470	117.5	0.14	1050	8.0	20.0	3.5	0.6	493-1552-ND	.73	5.17	UHE1E471MPD
470	117.5	0.14	1210	10.0	16.0	5.0	0.6	493-1553-ND	.73	5.17	UHE1E471MPD6
680	170	0.14	1400	10.0	20.0	5.0	0.6	493-1554-ND	.69	5.11	UHE1E681MPD
680	170	0.14	1450	12.5	15.0	5.0	0.6	493-1555-ND	.69	5.11	UHE1E681MHD6
820	205	0.14	1650	10.0	25.0	5.0	0.6	493-1556-ND	.70	5.18	UHE1E821MPD
1000	250	0.14	1910	10.0	31.5	5.0	0.6	493-1557-ND	.81	6.18	UHE1E102MPD

(Continued)

nichicon HE Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

RoHS COMPLIANT

Cap. (µF)	Leakage Current (µA)	tan δ Max. 120Hz @/20°C	Rated Ripple Current @ 100kHz /105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
1000	250	0.14	1900	12.5	20.0	5.0	0.6	493-1558-ND	.81	6.18	UHE1E102MHD6
1000	250	0.14	1940	16.0	15.0	7.5	0.8	493-1559-ND	.81	6.18	UHE1E102MHD3
1200	300	0.14	2210	18.0	15.0	7.5	0.8	493-1560-ND	.91	6.92	UHE1E122MHD
1500	375	0.14	2230	12.5	25.0	5.0	0.6	493-1561-ND	.99	7.51	UHE1E152MHD
1800	450	0.14	2650	12.5	31.5	5.0	0.8	493-1562-ND	1.10	8.67	UHE1E182MHD
1800	450	0.14	2530	16.0	20.0	7.5	0.8	493-1563-ND	1.10	8.67	UHE1E182MHD6
2200	550	0.16	2880	12.5	35.5	5.0	0.8	493-1564-ND	1.14	9.03	UHE1E222MHD
2200	550	0.16	2860	18.0	20.0	7.5	0.8	493-1565-ND	1.14	9.03	UHE1E222MHD6
2700	675	0.16	3350	12.5	40.0	5.0	0.8	493-1566-ND	1.18	9.30	UHE1E272MHD
2700	675	0.16	2930	16.0	25.0	7.5	0.8	493-1567-ND	1.18	9.30	UHE1E272MHD6
3300	825	0.18	3450	16.0	31.5	7.5	0.8	493-1568-ND	1.55	12.24	UHE1E332MHD
3300	825	0.18	3140	18.0	25.0	7.5	0.8	493-1569-ND	1.55	12.24	UHE1E332MHD6
3900	975	0.18	3610	16.0	35.5	7.5	0.8	493-1570-ND	1.89	14.94	UHE1E392MHD
3900	975	0.18	4170	18.0	31.5	7.5	0.8	493-1571-ND	1.89	14.94	UHE1E392MHD6
4700	1175	0.20	4080	16.0	40.0	7.5	0.8	493-1572-ND	1.89	14.94	UHE1E472MHD
4700	1175	0.20	4220	18.0	35.5	7.5	0.8	493-1573-ND	1.89	14.94	UHE1E472MHD6
5600	1400	0.22	4280	18.0	40.0	7.5	0.8	493-1574-ND	2.16	17.49	UHE1E562MHD
35 VDC Rated Voltage											
33	11.55	0.12	210	5.0	11.0	2.0	0.5	493-1575-ND	.32	2.25	UHE1V330MDD
56	19.6	0.12	340	6.3	11.0	2.5	0.5	493-1576-ND	.41	2.85	UHE1V560MED
150	52.5	0.12	640	8.0	11.5	3.5	0.6	493-1577-ND	.48	3.30	UHE1V151MPD
220	77	0.12	840	8.0	15.0	3.5	0.6	493-1578-ND	.53	3.73	UHE1V221MPD
220	77	0.12	865	10.0	12.5	5.0	0.6	493-1579-ND	.53	3.73	UHE1V221MPD6
270	94.5	0.12	1050	8.0	20.0	3.5	0.6	493-1580-ND	.73	5.17	UHE1V271MPD
330	115.5	0.12	1210	10.0	16.0	5.0	0.6	493-1581-ND	.73	5.17	UHE1V331MPD
470	164.5	0.12	1400	10.0	20.0	5.0	0.6	493-1582-ND	.69	5.11	UHE1V471MPD
470	164.5	0.12	1450	12.5	15.0	5.0	0.6	493-1583-ND	.69	5.11	UHE1V471MHD6
560	196	0.12	1650	10.0	25.0	5.0	0.6	493-1584-ND	.70	5.18	UHE1V561MPD
680	238	0.12	1910	10.0	31.5	5.0	0.6	493-1585-ND	.81	6.18	UHE1V681MPD
680	238	0.12	1900	12.5	20.0	5.0	0.6	493-1586-ND	.81	6.18	UHE1V681MHD6
680	238	0.12	1940	16.0	15.0	7.5	0.8	493-1587-ND	.81	6.18	UHE1V681MHD3
1000	350	0.12	2230	12.5	25.0	5.0	0.6	493-1588-ND	.99	7.51	UHE1V102MHD
1000	350	0.12	2210	18.0	15.0	7.5	0.8	493-1589-ND	.99	7.51	UHE1V102MHD6
1200	420	0.12	2650	12.5	31.5	5.0	0.8	493-1590-ND	1.10	8.67	UHE1V122MHD
1200	420	0.12	2530	16.0	20.0	7.5	0.8	493-1591-ND	1.10	8.67	UHE1V122MHD6
1500	525	0.12	2880	12.5	35.5	5.0	0.8	493-1592-ND	1.14	9.03	UHE1V152MHD
1800	630	0.12	3350	12.5	40.0	5.0	0.8	493-1593-ND	1.14	9.03	UHE1V182MHD
1800	630	0.12	2930	16.0	25.0	7.5	0.8	493-1594-ND	1.14	9.03	UHE1V182MHD6
1800	630	0.12	2860	18.0	20.0	7.5	0.8	493-1595-ND	1.14	9.03	UHE1V182MHD3
2200	770	0.14	3450	16.0	31.5	7.5	0.8	493-1596-ND	1.55	12.24	UHE1V222MHD
2200	770	0.14	3140	18.0	25.0	7.5	0.8	493-1597-ND	1.55	12.24	UHE1V222MHD6
2700	945	0.14	3610	16.0	35.5	7.5	0.8	493-1598-ND	1.89	14.94	UHE1V272MHD
2700	945	0.14	4170	18.0	31.5	7.5	0.8	493-1599-ND	1.89	14.94	UHE1V272MHD6
3300	1155	0.16	4080	16.0	40.0	7.5	0.8	493-1600-ND	1.89	14.94	UHE1V332MHD
3300	1155	0.16	4220	18.0	35.5	7.5	0.8	493-1601-ND	1.89	14.94	UHE1V332MHD6
3900	1365	0.16	4280	18.0	40.0	7.5	0.8	493-1602-ND	2.03	16.42	UHE1V392MHD
50 VDC Rated Voltage											
22	11	0.1	180	5.0	11.0	2.0	0.5	493-1603-ND	.32	2.25	UHE1H220MDD
56	28	0.1	295	6.3	11.0	2.5	0.5	493-1604-ND	.42	2.90	UHE1H560MED
100	50	0.1	555	8.0	11.5	3.5	0.6	493-1605-ND	.49	3.44	UHE1H101MPD
120	60	0.1	730	8.0	15.0	3.5	0.6	493-1606-ND	.52	3.69	UHE1H121MPD
150	75	0.1	760	10.0	12.5	5.0	0.6	493-1607-ND	.52	3.69	UHE1H151MPD
180	90	0.1	910	8.0	20.0	3.5	0.6	493-1608-ND	.59	4.18	UHE1H181MPD
220	110	0.1	1050	10.0	16.0	5.0	0.6	493-1609-ND	.63	4.47	UHE1H221MPD
270	135	0.1	1220	10.0	20.0	5.0	0.6	493-1610-ND	.69	5.11	UHE1H271MPD
270	135	0.1	1260	12.5	15.0	5.0	0.6	493-1611-ND	.69	5.11	UHE1H271MHD6
330	165	0.1	1440	10.0	25.0	5.0	0.6	493-1612-ND	.70	5.18	UHE1H331MPD
470	235	0.1	1690	10.0	31.5	5.0	0.6	493-1613-ND	.83	6.27	UHE1H471MPD
470	235	0.1	1660	12.5	20.0	5.0	0.6	493-1614-ND	.83	6.27	UHE1H471MHD6
470	235	0.1	1690	16.0	15.0	7.5	0.8	493-1615-ND	.83	6.27	UHE1H471MHD3
560	280	0.1	1950	12.5	25.0	5.0	0.6	493-1616-ND	.99	7.51	UHE1H561MHD
560	280	0.1	1930	18.0	15.0	7.5	0.8	493-1617-ND	.99	7.51	UHE1H561MHD6
680	340	0.1	2310	12.5	31.5	5.0	0.8	493-1618-ND	1.01	7.70	UHE1H681MHD
820	410	0.1	2510	12.5	35.5	5.0	0.8	493-1619-ND	1.10	8.67	UHE1H821MHD
820	410	0.1	2210	16.0	20.0	7.5	0.8	493-1620-ND	1.10	8.67	UHE1H821MHD6
1000	500	0.1	2920	12.5	40.0	5.0	0.8	493-1621-ND	1.10	8.67	UHE1H102MHD
1000	500	0.1	2555	16.0	25.0	7.5	0.8	493-1622-ND	1.10	8.67	UHE1H102MHD6
1000	500	0.1	2490	18.0	20.0	7.5	0.8	493-1623-ND	1.10	8.67	UHE1H102MHD3
1200	600	0.1	3010	16.0	31.5	7.5	0.8	493-1624-ND	1.54	12.15	UHE1H122MHD
1200	600	0.1	2740	18.0	25.0	7.5	0.8	493-1625-ND	1.54	12.15	UHE1H122MHD6
1500	750	0.1	3150	16.0	35.5	7.5	0.8	493-1626-ND	1.62	12.78	UHE1H152MHD
1800	900	0.1	3710	16.0	40.0	7.5	0.8	493-1627-ND	1.78	14.38	UHE1H182MHD
1800	900	0.1	3635	18.0	31.5	7.5	0.8	493-1628-ND	1.78	14.38	UHE1H182MHD6
2200	1100	0.12	3680	18.0	35.5	7.5	0.8	493-1629-ND	1.83	14.77	UHE1H222MHD6
2700	1350	0.12	3800	18.0	40.0	7.5	0.8	493-1630-ND	2.46	19.88	UHE1H272MHD
63 VDC Rated Voltage											
15	9.45	0.09	62	5.0	11.0	2.0	0.5	493-1631-ND	.32	2.25	UHE1J150MDD
33	20.79	0.09	126	6.3	11.0	2.5	0.5	493-1632-ND	.41	2.85	UHE1J330MED
56	35.28	0.09	260	8.0	11.5	3.5	0.6	493-1633-ND	.50	3.45	UHE1J560MPD
82	51.66	0.09	335	8.0	15.0	3.5	0.6	493-1634-ND	.52	3.69	UHE1J820MPD
82	51.66	0.09	325	10.0	12.5	5.0	0.6	493-1635-ND	.52	3.69	UHE1J820MPD6
120	75.6	0.09	408	8.0	20.0	3.5	0.6	493-1636-ND	.63	4.47	UHE1J121MPD
120	75.6	0.09	400	10.0	16.0	5.0	0.6	493-1637-ND	.63	4.47	UHE1J121MPD6
180	113.4	0.09	518	10.0	20.0	5.0	0.6	493-1638-ND	.69	5.11	UHE1J181MPD
180	113.4	0.09	527	12.5	15.0	5.0	0.6	493-1639-ND	.69	5.11	UHE1J181MHD6
220	138.6	0.09	595	10.0	25.0	5.0	0.6	493-1640-ND	.70	5.18	UHE1J221MPD
270	170.1	0.09	740	10.0	31.5	5.0	0.6	493-1641-ND	.83	6.34	UHE1J271MPD
270	170.1	0.09	765	12.5	20.0	5.0	0.6	493-1642-ND	.83	6.34	UHE1J271MHD6
270	170.1	0.09	895	16.0	15.0	7.5	0.8	493-1643-ND	.83	6.34	UHE1J271MHD3
330	207.9	0.09	875	12.5	25.0	5.0	0.6	493-1644-ND	.96	7.31	UHE1J331MHD
390	245.7	0.09	1030	18.0	15.0	7.5	0.8	493-1645-ND	.99	7.51	UHE1J391MHD
470	296.1	0.09	1010	12.5	31.5	5.0	0.8	493-1646-ND	1.01	7.70	UHE1J471MHD
470	296.1	0.09	1130	16.0	20.0	7.5	0.8	493-1647-ND	1.01	7.70	UHE1J471MHD6
560	352.8	0.09	1140	12.5	35.5	5.0	0.8	493-1648-ND	1.03	8.13	UHE1J561MHD
560	352.8	0.09	1350	16.0	25.0	7.5	0.8	493-1649-ND	1.03	8.13	UHE1J561MHD6
680	428.4	0.09	1280	12.5	40.0	5.0	0.8	493-1650-ND	1.10	8.67	UHE1J681MHD
680	428.4	0.09	1300	18.0	20.0	7.5	0.8	493-1651-ND	1.10	8.67	UHE1J681MHD6
820	516.6	0.09	1650	16.0	31.5	7.5	0.8	493-1652-ND	1.54	12.15	UHE1J821MHD
820	516.6	0.09	1560	18.0	25.0	7.5	0.8	493-1653-ND	1.54	12.15	UHE1J821MHD6
1000	630	0.09	1900	16.0	35.5	7.5	0.8	493-1654-ND	1.54	12.15	UHE1J102MHD
1000	630	0.09	1720	18.0	31.5	7.5	0.8	493-1655-ND	1.54	12.15	UHE1J102MHD6
1200	756	0.09	2130	16.0	40.0	7.5	0.8	493-1656-ND	1.74	13.71	UHE1J122MHD
1200	756	0.09	1890	18.0	35.5	7.5	0.8	493-1657-ND	1.74	13.71	UHE1J122MHD6
1500	945	0.09	2470	18.0	40.0	7.5	0.8	493-1658-ND	1.87	15.13	UHE1J152MHD
100 VDC Rated Voltage											
6.8	6.8	0.08	62	5.0	11.0	2.0	0.5	493-1659-ND	.32	2.25	UHE2A6R8MDD
15	15	0.08	126	6.3	11.0	2.5	0.5	493-1660-ND	.41	2.85	UHE2A150MED
27	27	0.08	260	8.0	11.5	3.5	0.6	493-1661-ND	.44	3.05	UHE2A270MPD
39	39	0.08	335	8.0	15.0	3.5	0.6	493-1662-ND	.50	3.45	UHE2A390MPD
47	47	0.08	325	10.0	12.5	5.0	0.6	493-1663-ND	.50	3.45	UHE2A470MPD
56	56	0.08	408	8.0	20.0	3.5	0.6	493-1664-ND	.52	3.69	UHE2A560MPD
68	68	0.08	400	10.0	16.0	5.0	0.6	493-1665-ND	.52	3.69	UHE2A680MPD
82	82	0.08	518	10.0	20.0	5.0	0.6	493-1666-ND	.52	3.69	UHE2A820MPD
82	82	0.08	527	12.5	15.0	5.0	0.6	493-1667-ND	.52	3.69	UHE2A820MHD6
100	100	0.08	595	10.0	25.0	5.0	0.6	493-1668-ND	.55	3.85	UHE2A101MPD
120	120	0.08	740	10.0	31.5	5.0	0.6	493-1669-ND	.69	4.88	UHE2A121MPD
120	120	0.08	765	12.5	20.0	5.0	0.6	493-1670-ND	.69	4.88	UHE2A121MHD6
150	150	0.08	895	16.0	15.0	7.5	0.8	493-1671-ND	.70	5.18	UHE2A151MHD
180	180	0.08	875	12.5	25.0	5.0	0.6	493-1672-ND	.70	5.18	UHE2A181MHD
180	180	0.08	1030	18.0	15.0	7.5	0.8	493-1673-ND	.70	5.18	UHE2A181MHD6
220	220	0.08	1010	12.5	31.5	5.0	0.8	493-1674-ND	.80	6.11	UHE2A221MHD
220	220	0.08	1130	16.0	20.0	7.5	0.8	493-1675-ND	.80	6.11	UHE2A221MHD6
270	270	0.08	1140	12.5	35.5	5.0	0.8	493-1676-ND	.83	6.34	UHE2A271MHD
270	270	0.08	1350	16.0	25.0	7.5	0.8	493-1677-ND	.83	6.34	UHE2A271MHD6
330	330	0.08	1280	12.5	40.0	5.0	0.8	493-1678-ND	1.52	11.97	UHE2A331MHD
330	330	0.08	1300	18.0	20.0	7.5	0.8	493-1679-ND	1.52	11.97	UHE2A331MHD6
390	390	0.08	1650	16.0	31.5	7.5	0.8	493-1680-ND	1.54	12.15	UHE2A391MHD
390	390	0.08	1560	18.0	25.0	7.5	0.8	493-1681-ND	1.54	12.15	UHE2A391MHD6
470	470	0.08	1900	16.0	35.5	7.5	0.8	493-1682-ND	1.54	12.15	UHE2A471MHD
470	470	0.08	1720	18.0	31.5	7.5	0.8	493-1683-ND	1.54	12.15	UHE2A471MHD6
560	560	0.08	2130	16.0	40.0	7.5	0.8	493-1684-ND	1.74	13.71	UHE2A561MHD
680	680	0.08	1890	18.0	35.5	7.5	0.8	493-1685-ND	1.74	13.71	UHE2A681MHD
820	820	0.08	2470	18.0	40.0	7.5	0.8	493-1686-ND	1.87	15.13	UHE2A821MHD

TS Series Aluminum Electrolytic Capacitors

RoHS COMPLIANT

Miniature Sized, High Reliability for Switching Power Supplies

FEATURES:

- Smaller case size
- Long product life

SPECIFICATIONS:

Temperature Range	-40°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:** After 2 minutes application of rated voltage, leakage current is less than 0.03CV or 3µA, whichever is greater.

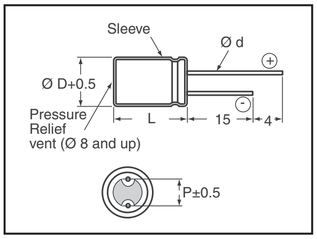

Rated Volt. (V)	25	50
tan δ (Max.)	0.18	0.14

- **Endurance:** The specifications at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.
- **Shelf Life:** After storing the capacitors under no load at 105°C for 1000 hours, they will meet the specified value for endurance characteristics listed
- **Marking:** Printed with white color letter on dark brown sleeve

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		25	50
Impedance Ratio ZT/Z20 (Max.)	Z-25°C/Z+20°C	2	2
	Z-40°C/Z+20°C	4	3

Capacitance Change	Within ±30% of initial value
tan δ	300% or less of initial specified value
Leakage Current	Initial specified value or less

Cap. (µF)	Leakage Current (µA)	tan δ Max. 120Hz @/20°C	Rated Ripple Current @ 100kHz/105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	ød		1	10	
25 VDC Rated Voltage											
100	3	0.18	165	8	9	3.5	0.6	493-3284-ND	.50	3.53	UTS1E101MPD
50 VDC Rated Voltage											
1.0	3	0.14	18	4	7	1.5	0.45	493-3285-ND	.30	2.10	UTS1H010MDD
10	3	0.14	54	6.3	7	2.5	0.5	493-3286-ND	.42	2.90	UTS1H100MDD
22	3	0.14	86	6.3	9	2.5	0.5	493-3287-ND	.48	3.35	UTS1H220MDD
47	3	0.14	153	8	9	3.5	0.6	493-3288-ND	.50	3.53	UTS1H470MPD
100	3	0.14	188	8	9	3.5	0.6	493-3289-ND	.50	3.53	UTS1H101MPD

Snap-in Aluminum Electrolytic Capacitors

Specification: Capacitance Tolerance: ±20%

LS Series: Temperature Range: -40°C ~ 85°C (160 ~ 250V), -25°C ~ 85°C (400 ~ 450V)

GU Series: Temperature Range: -40°C ~ 105°C (160 ~ 250V), -25°C ~ 105°C (400 ~ 450V)

GW and AR Series: Temperature Range: -40°C ~ 105°C (200 ~ 250V), -25°C ~ 105°C (400 ~ 450V)

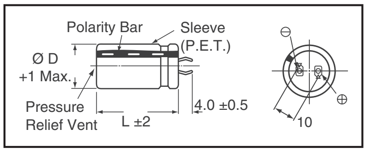

LS Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @85°C (mA)	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
160	270	20 x 25	0.15	1280	493-2443-ND	2.24	18.12	138.39	LLS2C271MELY
	560	20 x 35	0.15	2140	493-2450-ND	3.02	24.39	186.27	LLS2C561MELY
	560	25 x 25	0.15	2150	493-2452-ND	3.15	25.47	194.46	LLS2C561MELA
	1000	22 x 45	0.15	3020	493-2460-ND	4.10	33.05	257.79	LLS2C102MELZ
	1000	25 x 35	0.15	3000	493-2461-ND	4.12	33.25	259.35	LLS2C102MELA
	1200	30 x 30	0.15	3410	493-2465-ND	3.84	34.58	261.29	LLS2C122MELB
	1200	35 x 25	0.15	3400	493-2466-ND	4.16	37.44	282.88	LLS2C122MELC
	2200	30 x 50	0.15	4960	493-2472-ND	5.74	50.98	407.84	LLS2C222MELB
	2200	35 x 40	0.15	4960	493-2473-ND	6.14	55.22	417.18	LLS2C222MELC
	2700	35 x 45	0.15	5570	493-2474-ND	7.05	62.64	501.12	LLS2C272MELC
180	390	20 x 30	0.15	1840	493-2478-ND	2.70	21.84	166.74	LLS2Z391MELY
	470	22 x 30	0.15	1910	493-2481-ND	3.03	24.53	187.32	LLS2Z471MELZ
	820	22 x 40	0.15	2860	493-2489-ND	4.02	32.45	253.11	LLS2Z821MELZ
	820	25 x 35	0.15	2750	493-2490-ND	4.12	33.25	259.35	LLS2Z821MELA
	820	30 x 25	0.15	2690	493-2491-ND	4.32	34.88	272.03	LLS2Z821MELB
	1000	22 x 20	0.15	3100	493-2492-ND	4.22	34.00	265.20	LLS2Z102MELZ
	1200	25 x 45	0.15	3630	493-2495-ND	4.34	39.04	294.95	LLS2Z122MELA
	1800	30 x 45	0.15	4550	493-2500-ND	6.05	54.47	411.57	LLS2Z182MELB
	2700	35 x 50	0.15	5300	493-2503-ND	7.72	68.58	548.64	LLS2Z272MELC
200	220	20 x 25	0.15	1190	493-2504-ND	2.44	19.75	150.78	LLS2D221MELY
	270	22 x 25	0.15	1370	493-2506-ND	2.65	21.40	163.38	LLS2D271MELZ
	330	20 x 30	0.15	1560	493-2507-ND	2.70	21.84	166.74	LLS2D331MELY
	330	22 x 25	0.15	1510	493-2508-ND	2.81	22.74	173.67	LLS2D331MELZ
	390	22 x 30	0.15	1730	493-2510-ND	3.09	24.97	190.68	LLS2D391MELZ
	470	20 x 35	0.15	2030	493-2512-ND	3.24	26.21	200.13	LLS2D471MELY
	470	22 x 30	0.15	1970	493-2513-ND	3.24	26.21	200.13	LLS2D471MELZ
	470	25 x 25	0.15	1950	493-2514-ND	3.21	25.90	202.02	LLS2D471MELA
	560	20 x 40	0.15	2180	493-2515-ND	3.47	27.98	218.21	LLS2D561MELY
	560	22 x 35	0.15	2180	493-2516-ND	3.47	27.98	218.21	LLS2D561MELZ
	560	30 x 25	0.15	2150	493-2518-ND	3.73	30.08	234.59	LLS2D561MELB
	680	22 x 40	0.15	2480	493-2519-ND	3.90	31.43	245.12	LLS2D681MELZ
	680	25 x 30	0.15	2480	493-2520-ND	3.97	32.00	249.60	LLS2D681MELA
	680	30 x 25	0.15	2480	493-2521-ND	4.12	33.25	259.35	LLS2D681MELB
	820	22 x 45	0.15	2810	493-2522-ND	4.39	35.38	275.93	LLS2D821MELZ
	820	25 x 35	0.15	2790	493-2523-ND	4.39	35.38	275.93	LLS2D821MELA
	820	30 x 30	0.15	2800	493-2524-ND	4.64	37.43	291.92	LLS2D821MELB
	1000	22 x 50	0.15	3280	493-2525-ND	4.15	37.37	282.37	LLS2D102MELZ
	1000	25 x 40	0.15	3280	493-2526-ND	4.15	37.37	282.37	LLS2D102MELA
	1000	30 x 35	0.15	3150	493-2527-ND	4.26	38.36	289.85	LLS2D102MELB
	1200	30 x 35	0.15	3610	493-2528-ND	4.89	43.97	332.18	LLS2D122MELB
	1200	35 x 30	0.15	3570	493-2529-ND	5.10	45.92	346.97	LLS2D122MELC
	1500	30 x 45	0.15	4130	493-2530-ND	5.35	48.11	363.46	LLS2D152MELB
	1500	35 x 35	0.15	4060	493-2531-ND	6.04	54.36	410.72	LLS2D152MELC
	1800	30 x 50	0.15	4600	493-2532-ND	5.77	51.32	410.56	LLS2D182MELB
	1800	35 x 40	0.15	4590	493-2533-ND	6.19	54.98	439.84	LLS2D182MELC
	2200	35 x 45	0.15	5250	493-2534-ND	7.95	70.68	565.44	LLS2D222MELC
250	180	20 x 25	0.15	1200	493-2535-ND	2.81	22.74	173.67	LLS2E181MELY
	220	20 x 25	0.15	1260	493-2536-ND	2.81	22.74	173.67	LLS2E221MELY
	220	22 x 25	0.15	1240	493-2537-ND	2.81	22.74	173.67	LLS2E221MELZ
	330	20 x 35	0.15	1680	493-2540-ND	3.36	27.20	207.69	LLS2E331MELY
	330	22 x 30	0.15	1660	493-2541-ND	3.36	27.20	207.69	LLS2E331MELZ
	330	25 x 25	0.15	1610	493-2542-ND	3.29	26.50	206.70	LLS2E331MELA
	470	22 x 35	0.15	2150	493-2546-ND	3.73	30.08	234.59	LLS2E471MELZ
	470	25 x 35	0.15	2150	493-2547-ND	3.86	31.13	242.78	LLS2E471MELA
	470	30 x 25	0.15	2040	493-2548-ND	3.99	32.15	250.77	LLS2E471MELB
	560	30 x 25	0.15	2350	493-2551-ND	4.50	36.33	283.34	LLS2E561MELB
	680	25 x 40	0.15	2670	493-2552-ND	4.05	36.43	275.23	LLS2E681MELA
	680	30 x 30	0.15	2710	493-2553-ND	4.05	36.43	275.23	LLS2E681MELB
	820	35 x 30	0.15	2960	493-2556-ND	5.10	45.92	346.97	LLS2E821MELC
	1000	30 x 40	0.15	3560	493-2557-ND	5.72	51.50	389.13	LLS2E102MELB
	1000	35 x 35	0.15	3480	493-2558-ND	6.04	54.36	410.72	LLS2E102MELC
	1200	30 x 45	0.15	3990	493-2559-ND	5.77	51.32	410.56	LLS2E122MELB
	1200	35 x 35	0.15	3840	493-2560-ND	5.81	51.68	413.44	LLS2E122MELC
	1500	35 x 40	0.15	4330	493-2561-ND	7.59	67.50	540.00	LLS2E152MELC
	1800	35 x 50	0.15	4540	493-2562-ND	8.17	72.64	581.12	LLS2E182MELC
400	68	20 x 25	0.15	750	493-2563-ND	2.26	18.32	139.86	LLS2G680MELY
	82	20 x 30	0.15	820	493-2564-ND	2.44	19.72	150.57	LLS2G820MELY
	100	20 x 30	0.15	950	493-2566-ND	2.61	21.12	161.28	LLS2G101MELY
	100	22 x 25	0.15	950	493-2567-ND	2.61	21.12	161.28	LLS2G101MELZ
	120	20 x 35	0.15	1070	493-2568-ND	2.96	23.98	183.12	LLS2G121MELY
	120	25 x 25	0.15	1130	493-2570-ND	3.09	25.00	190.89	LLS2G121MELA
	150	20 x 40	0.15	1220	493-2571-ND	3.33	26.90	205.38	LLS2G151MELY
	150	22 x 35	0.15	1240	493-2572-ND	3.33	26.90	205.38	LLS2G151MELZ
	150	25 x 30	0.15	1270	493-2573-ND	3.40	27.47	209.79	LLS2G151MELA
	180	25 x 30	0.15	1440	493-2575-ND	3.58	28.88	225.23	LLS2G181MELA
	180	30 x 25	0.15	1520	493-2576-ND	3.69	29.78	232.25	LLS2G181MELB
	220	22 x 45	0.15	1580	493-2577-ND	3.79	30.58	238.49	LLS2G221MELZ
	220	25 x 35	0.15	1640	493-2578-ND	4.02	32.45	253.11	LLS2G221MELA
	220	30 x 30	0.15	1660	493-2579-ND	4.13	33.30	259.74	LLS2G221MELB
	270	25 x 40	0.15	1790	493-2580-ND	4.45	35.90	280.02	LLS2G271MELA
	270	30 x 30	0.15	1820	493-2581-ND	3.76	33.86	255.85	LLS2G271MELB
	330	25 x 45	0.15	2000	493-2582-ND	4.30	38.66	292.06	LLS2G331MELA
	330	30 x 35	0.15	2050	493-2583-ND	4.30	38.66	292.06	LLS2G331MELB
	330	35 x 30	0.15	2050	493-2584-ND	4.65	41.81	315.86	LLS2G331MELC
	390	30 x 40	0.15	2260	493-2585-ND	4.82	43.36	327.59	LLS2G391MELB
	390	35 x 35	0.15	2280	493-2586-ND	5.17	46.49	351.22	LLS2G391MELC
	470	30 x 45	0.15	2510	493-2587-ND	5.88	52.92	399.84	LLS2G471MELB
	470	35 x 35	0.15	2510	493-2588-ND	5.88	52.92	399.84	LLS2G471MELC
	560	30 x 50	0.15	2850	493-2589-ND	6.25	55.56	444.48	LLS2G561MELB
	560	35 x 40	0.15	2850	493-2590-ND	6.00	53.32	426.56	LLS2G561MELC
	680	35 x 50	0.15	3100	493-2591-ND	8.41	74.72	597.76	LLS2G681MELC
450	56	20 x 25	0.20	610	493-2592-ND	2.38	19.22	146.79	LLS2W560MELY
	68	20 x 30	0.20	710	493-2593-ND	2.54	20.57	157.08	LLS2W680MELY
	68	22 x 25	0.20	710	493-2594-ND	2.54	20.57	157.08	LLS2W680MELZ
	82	22 x 25	0.20	860	493-2596-ND	2.73	22.06	168.42	LLS2W820MELZ
	100	20 x 35	0.20	880	493-2597-ND	3.09	25.00	190.89	LLS2W101MELY
	100	22 x 30	0.20	950	493-2598-ND	3.09	25.00	190.89	LLS2W101MELZ
	100	25 x 25	0.20	970	493-2599-ND	3.21	25.93	198.03	LLS2W101MELA
	120	20 x 40	0.20	990	493-2600-ND	3.33	26.90	205.38	LLS2W121MELY
	120	25 x 35	0.20	1070	493-2601-ND	3.33	26.90	205.38	LLS2W121MELZ
	120	25 x 30	0.20	1090	493-2602-ND	3.14	25.33	197.54	LLS2W121MELA
	150	22 x 40	0.20	1180	493-2604-ND	3.58	28.85	225.03	LLS2W151MELZ
	150	25 x 30	0.20	1250	493-2605-ND	3.58	28.85	225.03	LLS2W151MELA
	150	30 x 25	0.20	1290	493-2606-ND	3.79	30.58	238.49	LLS2W151MELB
	180	22 x 45	0.20	1320	493-2607-ND	3.79	30.58	238.49	LLS2W181MELZ
	180	25 x 35	0.20	1400	493-2608-ND	4.13	33.30	259.74	LLS2W181MELA
	220	25 x 40	0.20	1590	493-2610-ND	3.76	33.86	255.85	LLS2W221MELA
	220	30 x 30	0.20	1640	493-2611-ND	3.76	33.86	255.85	LLS2W221MELB
	220	35 x 25	0.20	1590	493-2612-ND	3.94	35.46	267.92	LLS2W221MELC
	270	30 x 35	0.20	1830	493-2613-ND	4.65	41.81	315.86	LLS2W271MELB
	270	35 x 30	0.20	1900	493-2614-ND	4.82	43.36	327.59	LLS2W271MELC
	330	30 x 40	0.20	2120	493-2615-ND	5.61	50.49	381.48	LLS2W331MELB
	330	35 x 35	0.20	2150	493-2616-ND	5.61	50.49	381.48	LLS2W331MELC
	390	30 x 45	0.20	2350	493-2617-ND	5.77	51.30	410.40	LLS2W391MELB
	390	35 x 40	0.20	2380	493-2618-ND	5.68	50.50	404.00	LLS2W391MELC
	470	35 x 45	0.20	2680	493-2619-ND	7.99	71.02	568.16	LLS2W471MELC
	560	35 x 50	0.20	2880	493-2620-ND	9.06	80.50	644.00	LLS2W561MELC

GU Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
160	270	20 x 25	0.15	1100	493-2621-ND	2.55	20.63	157.50	LGU2C271MELY
	390	22 x 25	0.15	1300	493-2624-ND	2.76	22.30	170.31	LGU2C391MELZ
	470	22 x 30	0.15	1550	493-2626-ND	3.03	24.48	186.90	LGU2C471MELZ
	470	25 x 25	0.15	1550	493-2627-ND	3.17	25.66	195.93	LGU2C471MELA
	560	20 x 40	0.15	1500	493-2628-ND	3.32	26.81	204.75	LGU2C561MELY
	560	30 x 25	0.15	1670	493-2631-ND	3.31	26.68	208.07	LGU2C561MELB
	680	22 x 40	0.15	1820	493-2633-ND	3.40	27.43	213.92	LGU2C681MELZ
	1000	22 x 50	0.15	2250	493-2640-ND	4.24	34.18	266.57	LGU2C102MELZ

(Continued)

GU Series *(Cont.)*

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
160	1000	25 x 40	0.15	2250	493-2641-ND	4.55	36.68	286.07	LGU2C102MELA
	1000	30 x 30	0.15	2250	493-2642-ND	4.55	36.68	286.07	LGU2C102MELB
	1000	35 x 25	0.15	2250	493-2643-ND	4.08	36.72	277.44	LGU2C102MELC
	2200	35 x 45	0.15	3500	493-2651-ND	6.76	60.12	480.96	LGU2C222MELC
	2700	35 x 50	0.15	4000	493-2652-ND	7.33	65.14	521.12	LGU2C272MELC
180	220	20 x 25	0.15	1000	493-2653-ND	2.57	20.76	158.55	LGU2Z221MELY
	390	22 x 30	0.15	1350	493-2658-ND	3.08	24.92	190.26	LGU2Z391MELZ
	390	25 x 25	0.15	1350	493-2659-ND	3.19	25.77	196.77	LGU2Z391MELA
	470	22 x 35	0.15	1500	493-2661-ND	3.16	25.45	198.51	LGU2Z471MELZ
	470	25 x 30	0.15	1500	493-2662-ND	3.25	26.23	204.56	LGU2Z471MELA
	820	22 x 50	0.15	2040	493-2672-ND	4.58	36.95	288.21	LGU2Z821MELZ
	820	25 x 40	0.15	2040	493-2673-ND	3.82	34.34	259.42	LGU2Z821MELA
	820	35 x 25	0.15	2040	493-2675-ND	4.33	38.99	294.61	LGU2Z821MELC
	1000	35 x 30	0.15	2300	493-2678-ND	4.89	44.01	332.52	LGU2Z102MELC
	1200	30 x 40	0.15	2550	493-2680-ND	5.29	47.57	359.38	LGU2Z122MELB
	1500	30 x 45	0.15	2900	493-2682-ND	6.20	55.82	421.77	LGU2Z152MELB
200	220	20 x 25	0.15	1000	493-2686-ND	2.69	21.78	166.32	LGU2D221MELY
	270	20 x 30	0.15	1100	493-2687-ND	2.73	22.08	168.63	LGU2D271MELY
	270	22 x 25	0.15	1100	493-2688-ND	2.73	22.08	168.63	LGU2D271MELZ
	330	20 x 35	0.15	1200	493-2689-ND	3.03	24.48	186.90	LGU2D331MELY
	330	22 x 30	0.15	1250	493-2690-ND	3.03	24.48	186.90	LGU2D331MELZ
	330	25 x 25	0.15	1250	493-2691-ND	3.16	25.58	195.30	LGU2D331MELA
	390	20 x 40	0.15	1310	493-2692-ND	3.32	26.81	204.75	LGU2D391MELY
	390	22 x 30	0.15	1350	493-2693-ND	3.32	26.81	204.75	LGU2D391MELZ
	390	25 x 25	0.15	1350	493-2694-ND	3.13	25.25	196.95	LGU2D391MELA
	470	20 x 45	0.15	1450	493-2695-ND	3.28	26.43	206.12	LGU2D471MELY
	470	22 x 35	0.15	1500	493-2696-ND	3.28	26.43	206.12	LGU2D471MELZ
	470	25 x 30	0.15	1500	493-2697-ND	3.40	27.43	213.92	LGU2D471MELA
	470	30 x 25	0.15	1500	493-2698-ND	3.65	29.48	229.91	LGU2D471MELB
	560	20 x 50	0.15	1580	493-2699-ND	3.65	29.48	229.91	LGU2D561MELY
	560	22 x 40	0.15	1670	493-2700-ND	3.65	29.48	229.91	LGU2D561MELZ
	560	25 x 30	0.15	1670	493-2701-ND	3.79	30.53	238.10	LGU2D561MELA
	560	30 x 25	0.15	1670	493-2702-ND	4.00	32.28	251.75	LGU2D561MELB
	680	22 x 45	0.15	1780	493-2703-ND	4.16	33.58	261.89	LGU2D681MELZ
	680	25 x 35	0.15	1780	493-2704-ND	4.16	33.58	261.89	LGU2D681MELA
	680	30 x 30	0.15	1780	493-2705-ND	4.42	35.63	277.88	LGU2D681MELB
	680	35 x 25	0.15	1780	493-2706-ND	3.88	34.88	263.50	LGU2D681MELC
	820	25 x 45	0.15	2040	493-2707-ND	4.08	36.72	277.44	LGU2D821MELA
	820	30 x 30	0.15	2040	493-2708-ND	4.08	36.72	277.44	LGU2D821MELB
	820	35 x 25	0.15	2040	493-2709-ND	4.38	39.40	297.67	LGU2D821MELC
	1000	25 x 50	0.15	2300	493-2710-ND	4.55	40.97	309.57	LGU2D102MELA
	1000	30 x 35	0.15	2300	493-2711-ND	4.59	41.31	312.12	LGU2D102MELB
	1000	35 x 30	0.15	2300	493-2712-ND	4.90	44.06	332.86	LGU2D102MELC
	1200	30 x 40	0.15	2650	493-2713-ND	5.71	51.41	388.45	LGU2D122MELB
	1200	35 x 35	0.15	2650	493-2714-ND	5.71	51.41	388.45	LGU2D122MELC
	1500	30 x 50	0.15	3080	493-2715-ND	5.87	52.20	417.60	LGU2D152MELB
	1500	35 x 40	0.15	3080	493-2716-ND	5.79	51.44	411.52	LGU2D152MELC
	1800	35 x 45	0.15	3480	493-2717-ND	7.58	67.36	538.88	LGU2D182MELC
	2200	35 x 50	0.15	3780	493-2718-ND	8.49	75.46	603.68	LGU2D222MELC
220	180	20 x 25	0.15	900	493-2719-ND	2.70	21.86	166.95	LGU2P181MELY
	220	20 x 30	0.15	1000	493-2720-ND	2.79	22.55	172.20	LGU2P221MELY
	220	22 x 25	0.15	1000	493-2721-ND	2.79	22.55	172.20	LGU2P221MELZ
	270	22 x 30	0.15	1150	493-2723-ND	3.15	25.49	194.67	LGU2P271MELZ
	470	20 x 50	0.15	1450	493-2730-ND	3.92	31.63	246.68	LGU2P471MELY
	470	22 x 40	0.15	1450	493-2731-ND	3.92	31.63	246.68	LGU2P471MELZ
	560	22 x 45	0.15	1700	493-2734-ND	4.36	35.13	273.98	LGU2P561MELZ
	680	25 x 45	0.15	1780	493-2737-ND	4.21	37.87	286.11	LGU2P681MELA
	680	30 x 35	0.15	1780	493-2738-ND	4.26	38.32	289.51	LGU2P681MELB
	820	25 x 50	0.15	2100	493-2740-ND	4.84	43.52	328.78	LGU2P821MELA
	1000	30 x 45	0.15	2400	493-2743-ND	5.33	47.93	362.10	LGU2P102MELB
	1000	35 x 35	0.15	2400	493-2744-ND	5.93	53.39	403.41	LGU2P102MELC
	1500	35 x 45	0.15	3000	493-2747-ND	7.32	65.04	520.32	LGU2P152MELC
250	150	20 x 25	0.15	790	493-2748-ND	2.76	22.36	170.73	LGU2E151MELY
	180	20 x 30	0.15	900	493-2749-ND	2.88	23.27	177.66	LGU2E181MELY
	220	20 x 30	0.15	1000	493-2750-ND	3.03	24.48	186.90	LGU2E221MELY
	220	22 x 25	0.15	1000	493-2751-ND	3.03	24.48	186.90	LGU2E221MELZ
	270	20 x 35	0.15	1100	493-2752-ND	3.15	25.38	197.93	LGU2E271MELY
	330	20 x 40	0.15	1200	493-2755-ND	3.53	28.48	222.11	LGU2E331MELY
	330	22 x 40	0.15	1300	493-2756-ND	3.53	28.48	222.11	LGU2E331MELZ
	330	25 x 30	0.15	1300	493-2757-ND	3.64	29.38	229.13	LGU2E331MELA
	330	30 x 25	0.15	1300	493-2758-ND	3.79	30.53	238.10	LGU2E331MELB
	390	30 x 25	0.15	1490	493-2762-ND	4.16	33.58	261.89	LGU2E391MELB
	470	22 x 50	0.15	1650	493-2763-ND	4.42	35.63	277.88	LGU2E471MELZ
	470	25 x 40	0.15	1650	493-2764-ND	4.41	35.58	277.49	LGU2E471MELA
	470	30 x 30	0.15	1650	493-2765-ND	3.78	34.00	256.87	LGU2E471MELB
	470	35 x 25	0.15	1650	493-2766-ND	4.08	36.72	277.44	LGU2E471MELC
	560	30 x 35	0.15	1800	493-2768-ND	4.29	38.57	291.38	LGU2E561MELB
	560	35 x 25	0.15	1800	493-2769-ND	4.59	41.31	312.12	LGU2E561MELC
	680	25 x 50	0.15	2000	493-2770-ND	4.90	44.10	333.20	LGU2E681MELA
	680	30 x 40	0.15	2000	493-2771-ND	4.79	43.09	325.55	LGU2E681MELB
	680	35 x 30	0.15	2000	493-2772-ND	5.10	45.92	346.97	LGU2E681MELC
	820	30 x 45	0.15	2300	493-2773-ND	5.31	47.75	360.74	LGU2E821MELB
	820	35 x 35	0.15	2300	493-2774-ND	5.73	51.55	389.47	LGU2E821MELC
	1000	30 X 50	0.15	2470	493-2775-ND	5.83	52.49	396.61	LGU2E102MELB
	1000	35 x 40	0.15	2470	493-2776-ND	6.06	53.88	431.04	LGU2E102MELC
	1200	35 x 45	0.15	2600	493-2777-ND	7.90	70.26	562.08	LGU2E122MELC
	1500	35 x 50	0.15	3000	493-2778-ND	8.56	76.06	608.48	LGU2E152MELC
400	56	20 x 25	0.15	510	493-2779-ND	2.40	19.42	148.26	LGU2G560MELY
	68	20 x 30	0.15	560	493-2780-ND	2.59	20.93	159.81	LGU2G680MELY
	82	20 x 30	0.15	640	493-2781-ND	2.67	21.59	164.85	LGU2G820MELY
	82	22 x 25	0.15	640	493-2782-ND	2.67	21.59	164.85	LGU2G820MELZ
	100	20 x 35	0.15	700	493-2783-ND	3.03	24.48	186.90	LGU2G101MELY
	100	22 x 30	0.15	700	493-2784-ND	3.03	24.48	186.90	LGU2G101MELZ
	100	25 x 25	0.15	700	493-2785-ND	3.14	25.38	193.83	LGU2G101MELA
	120	20 x 40	0.15	750	493-2786-ND	3.38	27.31	208.53	LGU2G121MELY
	120	22 x 35	0.15	750	493-2787-ND	3.38	27.31	208.53	LGU2G121MELZ
	120	25 x 25	0.15	750	493-2788-ND	3.18	25.68	200.27	LGU2G121MELA
	150	20 x 45	0.15	830	493-2789-ND	3.51	28.28	220.55	LGU2G151MELY
	150	22 x 40	0.15	880	493-2790-ND	3.51	28.28	220.55	LGU2G151MELZ
	150	25 x 30	0.15	880	493-2791-ND	3.62	29.18	227.57	LGU2G151MELA
	150	30 x 25	0.15	880	493-2792-ND	3.84	30.95	241.41	LGU2G151MELB
	180	22 x 45	0.15	980	493-2793-ND	3.93	31.70	247.26	LGU2G181MELZ
	180	25 x 35	0.15	980	493-2794-ND	3.93	31.70	247.26	LGU2G181MELA
	180	30 x 30	0.15	980	493-2795-ND	4.14	33.43	260.72	LGU2G181MELB
	180	35 x 25	0.15	980	493-2796-ND	4.47	36.03	281.00	LGU2G181MELC
	220	22 x 50	0.15	1100	493-2797-ND	4.59	37.03	288.80	LGU2G221MELZ
	220	25 x 40	0.15	1100	493-2798-ND	3.78	34.00	256.87	LGU2G221MELA
	220	30 x 30	0.15	1100	493-2799-ND	3.87	34.79	262.82	LGU2G221MELB
	220	35 x 25	0.15	1100	493-2800-ND	4.12	37.08	280.16	LGU2G221MELC
	270	25 x 45	0.15	1220	493-2801-ND	4.47	40.25	304.13	LGU2G271MELA
	270	30 x 35	0.15	1220	493-2802-ND	4.47	40.25	304.13	LGU2G271MELB
	270	35 x 30	0.15	1220	493-2803-ND	4.72	42.50	321.13	LGU2G271MELC
	330	25 x 50	0.15	1440	493-2804-ND	5.42	48.74	368.22	LGU2G331MELA
	330	30 x 40	0.15	1440	493-2805-ND	5.33	47.97	362.44	LGU2G331MELB
	330	35 x 30	0.15	1440	493-2806-ND	5.42	48.74	368.22	LGU2G331MELC
	390	30 x 45	0.15	1600	493-2807-ND	5.72	50.88	407.04	LGU2G391MELB
	390	35 x 35	0.15	1600	493-2808-ND	5.72	50.88	407.04	LGU2G391MELC
	470	30 x 50	0.15	1900	493-2809-ND	6.89	61.24	489.92	LGU2G471MELB
	470	35 x 40	0.15	1900	493-2810-ND	6.35	56.40	451.20	LGU2G471MELC
	560	35 x 45	0.15	2120	493-2811-ND	9.06	80.54	644.32	LGU2G561MELC
420	56	20 x 25	0.15	510	493-2812-ND	2.88	23.29	177.87	LGUW6560MELY
	100	20 x 35	0.15	700	493-2816-ND	3.49	28.15	219.57	LGUW6101MELY
	100	22 x 30	0.15	700	493-2817-ND	3.49	28.15	219.57	LGUW6101MELZ
	100	25 x 25	0.15	700	493-2818-ND	3.50	28.23	220.16	LGUW6101MELA
	120	25 x 30	0.15	750	493-2821-ND	3.99	32.20	251.16	LGUW6121MELA
	150	20 x 50	0.15	880	493-2822-ND	4.60	37.08	289.19	LGUW6151MELY
	150	22 x 40	0.15	880	493-2823-ND	4.60	37.08	289.19	LGUW6151MELZ
	150	25 x 35	0.15	880	493-2824-ND	3.98	35.84	270.81	LGUW6151MELA
	150	30 x 25	0.15	880	493-2825-ND	3.98	35.80	270.47	LGUW6151MELB
	180	22 x 45	0.15	950	493-2826-ND	3.99	35.93	271.49	LGUW6181MELZ
	220	35 x 25	0.15	1100	493-2832-ND	5.35	48.11	363.46	LGUW6221MELC
	330	35 x 35	0.15	1450	493-2837-ND	6.71	59.66	477.28	LGUW6331MELC
	390	35 x 40	0.15	1550	493-2839-ND	8.01	71.24	569.92	LGUW6391MELC
	470	35 x 45	0.15	1900	493-2840-ND	8.62	76.58	612.64	LGUW6471MELC
	560	35 x 50	0.15	2150	493-2841-ND	11.17	99.26	794.08	LGUW6561MELC
450	47	20 x 25	0.20	390	493-2842-ND	3.12	25.27	192.99	LGU2W470MELY
	56	20 x 30	0.20	510	493-2843-ND	3.32	26.84	204.96	LGU2W560MELY
	68	20 x 35	0.20	560	493-2844-ND	3.30	26.58	207.29	LGU2W680MELY
	82	22 x 30	0.20	640	493-2846-ND	3.48	28.10	219.18	LGU2W820MELZ
	82	25 x 25	0.20	640	493-2847-ND	3.27	26.35	205.53	LGU2W820MELA
	100	20 x 45	0.20	690	493-2848-ND	3.98	32.13	250.58	LGU2W101MELY
	100	22 x 35	0.20	690	493-2849-ND	3.98	32.13	250.58	LGU2W101MELZ
	100	25 x 30	0.20	690	493-2850-ND	4.10	33.10	258.18	LGU2W101MELA
	120	20 x 50	0.20	750	493-2851-ND	4.60	37.13	289.58	LGU2W121MELY
	120	22 x 40	0.20	800	493-2852-ND	4.60	37.13	289.58	LGU2W121MELZ
	120	25 x 30	0.20	800	493-2853-ND	3.82	34.34	259.42	LGU2W121MELA
	120	30 x 25	0.20	800	493-2854-ND	3.98	35.80	270.47	LGU2W121MELB
	150	22 x 45	0.20	880	493-2855-ND	4.46	40.10	302.94	LGU2W151MELZ
	150	25 x 35	0.20	880	493-2856-ND	4.55	40.97	309.57	LGU2W151MELA
	150	30 x 30	0.20	880	493-2857-ND	4.65	41.87	316.37	LGU2W151MELB
	180	22 x 50	0.20	1000	493-2858-ND	4.80	43.16	326.06	LGU2W181MELZ
	180	25 x 40	0.20	1000	493-2859-ND	5.23	47.03	355.30	LGU2W181MELA
	180	30 x 30	0.20	1000	493-2860-ND	5.36	48.20	364.14	LGU2W181MELB
	220	25 x 45	0.20	1120	493-2861-ND	6.16	55.42	418.71	LGU2W221MELA
	220	30 x 35	0.20	1120	493-2862-ND	5.69	50.62	404.96	LGU2W221MELB
	220	35 x 30	0.20	1120	493-2863-ND	5.94	52.76	422.08	LGU2W221MELC
	270	30 x 40	0.20	1280	493-2864-ND	6.75	59.96	479.68	LGU2W271MELB
	270	35 x 35	0.20	1280	493-2865-ND	6.99	62.12	496.96	LGU2W271MELC
	330	30 x 50	0.20	1450	493-2866-ND	7.92	70.42	563.36	LGU2W331MELB
	330	35 x 40	0.20	1450	493-2867-ND	8.25	73.34	586.72	LGU2W331MELC
	390	35 x 40	0.20	1500	493-2868-ND	9.49	84.32	674.56	LGU2W391MELC
	470	35 x 50	0.20	1850	493-2869-ND	11.05	98.26	786.08	LGU2W471MELC

(Continued)

nichicon Snap-in Aluminum Electrolytic Capacitors *(Cont.)*

GW Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.		Pricing		Nichicon Part No.
						1	10	100	
200	470	22 x 30	0.15	2170	493-3216-ND	4.45	35.90	280.02	LGW2D471MELZ30
	470	25 x 25	0.15	2170	493-3215-ND	3.77	33.91	256.19	LGW2D471MELA25
	680	22 x 40	0.15	2300	493-3219-ND	4.40	39.58	299.03	LGW2D681MELZ40
	680	25 x 35	0.15	2650	493-3217-ND	4.58	41.18	311.10	LGW2D681MELA35
	680	30 x 25	0.15	3080	493-3218-ND	4.98	44.82	338.64	LGW2D681MELB25
	1000	30 x 35	0.15	3980	493-3213-ND	6.15	55.33	418.03	LGW2D102MELB35
	1500	35 x 35	0.15	4200	493-3214-ND	7.51	66.74	533.92	LGW2D152MELC35
250	330	25 x 25	0.15	1800	493-3221-ND	3.99	35.93	271.49	LGW2E331MELA25
	470	30 x 25	0.15	2200	493-3222-ND	5.38	48.44	366.01	LGW2E471MELB25
	680	30 x 30	0.15	2550	493-3223-ND	6.06	53.84	430.72	LGW2E681MELB30
	1200	35 x 40	0.15	3450	493-3220-ND	9.65	85.76	686.08	LGW2E122MELC40
400	100	22 x 25	0.15	1020	493-3224-ND	3.95	31.85	248.43	LGW2G101MELZ25
	120	22 x 30	0.15	1220	493-3225-ND	4.40	35.45	276.51	LGW2G121MELZ30
	180	25 x 30	0.15	1430	493-3226-ND	4.58	41.18	311.10	LGW2G181MELA30
	180	30 x 25	0.15	1680	493-3227-ND	4.76	42.80	323.34	LGW2G181MELB25
	220	30 x 30	0.15	1790	493-3228-ND	5.47	49.25	372.13	LGW2G221MELB30
	330	30 x 40	0.15	2330	493-3229-ND	6.34	56.34	450.72	LGW2G331MELB40
	390	30 x 45	0.15	2520	493-3230-ND	7.31	64.94	519.52	LGW2G391MELB45
	470	30 x 50	0.15	2850	493-3231-ND	8.24	73.20	585.60	LGW2G471MELB50
	470	35 x 40	0.15	2850	493-3232-ND	8.56	76.08	608.64	LGW2G471MELC40
450	100	25 x 25	0.20	1040	493-3233-ND	3.90	35.12	265.37	LGW2W101MELA25
	120	22 x 35	0.20	1150	493-3234-ND	4.26	38.34	289.68	LGW2W121MELZ35
	220	25 x 45	0.20	1550	493-3235-ND	6.01	54.11	408.85	LGW2W221MELA45
	220	30 x 35	0.20	1710	493-3236-ND	5.89	52.38	419.04	LGW2W221MELB35
	330	35 x 35	0.20	2200	493-3237-ND	8.24	73.20	585.60	LGW2W331MELC35
	390	35 x 40	0.20	2420	493-3238-ND	9.20	81.82	654.56	LGW2W391MELC40
	470	35 x 45	0.20	2670	493-3239-ND	10.46	92.96	743.68	LGW2W471MELC45

AR Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.		Pricing		Nichicon Part No.
						1	10	100	
200	470	22 x 30	0.15	1480	493-3244-ND	3.23	26.02	202.94	LAR2D471MELZ30
	470	25 x 25	0.15	1480	493-3243-ND	3.40	27.46	214.18	LAR2D471MELA25
	680	22 x 40	0.15	1750	493-3247-ND	3.95	31.82	248.17	LAR2D681MELZ40
	680	25 x 30	0.15	1750	493-3245-ND	4.12	33.26	259.41	LAR2D681MELA30
	680	30 x 25	0.15	1750	493-3246-ND	4.48	36.14	281.92	LAR2D681MELB25
	1000	30 x 30	0.15	2300	493-3240-ND	4.48	40.34	304.82	LAR2D102MELB30
	1000	35 x 25	0.15	2300	493-3241-ND	4.77	42.94	324.42	LAR2D102MELC25
	1500	35 x 35	0.15	2800	493-3242-ND	6.07	54.64	412.87	LAR2D152MELC35
250	330	25 x 25	0.15	1200	493-3249-ND	3.58	28.90	225.42	LAR2E331MELA25
	470	25 x 35	0.15	1400	493-3250-ND	3.76	33.83	255.57	LAR2E471MELA35
	470	30 x 25	0.15	1400	493-3251-ND	3.90	35.12	265.37	LAR2E471MELB25
	680	30 x 30	0.15	1700	493-3252-ND	4.92	44.24	334.22	LAR2E681MELB30
	1200	35 x 40	0.15	2300	493-3248-ND	7.02	62.44	499.52	LAR2E122MELC40
400	100	22 x 25	0.15	680	493-3253-ND	3.15	25.45	194.31	LAR2G101MELZ25
	120	22 x 30	0.15	730	493-3254-ND	3.19	25.69	200.39	LAR2G121MELZ30
	180	25 x 30	0.15	950	493-3255-ND	4.14	33.42	260.70	LAR2G181MELA30
	180	30 x 25	0.15	950	493-3256-ND	4.30	34.70	270.67	LAR2G181MELB25
	220	30 x 25	0.15	1100	493-3257-ND	3.98	35.86	270.95	LAR2G221MELB25
	330	30 x 35	0.15	1440	493-3258-ND	5.14	46.24	349.37	LAR2G331MELB35
	390	30 x 40	0.15	1550	493-3259-ND	5.91	53.20	401.97	LAR2G391MELB40
	470	30 x 45	0.15	1680	493-3260-ND	6.01	53.45	427.59	LAR2G471MELB45
	470	35 x 35	0.15	1680	493-3261-ND	6.24	55.49	443.95	LAR2G471MELC35
450	100	25 x 25	0.20	690	493-3262-ND	3.51	28.28	220.58	LAR2W101MELA25
	120	22 x 35	0.20	720	493-3263-ND	3.82	30.83	240.51	LAR2W121MELZ35
	220	25 x 40	0.20	1050	493-3264-ND	4.37	39.31	297.02	LAR2W221MELA40
	220	30 x 30	0.20	1050	493-3265-ND	4.75	42.79	323.30	LAR2W221MELB30
	220	35 x 25	0.20	1050	493-3266-ND	5.14	46.24	349.37	LAR2W221MELC25
	330	35 x 35	0.20	1380	493-3267-ND	6.01	53.45	427.59	LAR2W331MELC35
	390	35 x 40	0.20	1610	493-3268-ND	6.71	59.61	476.88	LAR2W391MELC40
	470	35 x 45	0.20	1780	493-3269-ND	7.63	67.84	542.72	LAR2W471MELC45

WX Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 85°C

FEATURES: • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • Load life of 2,000 hours at 85°C **Marking:** Black print on the case top

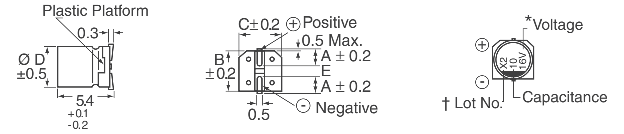

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, “V” for rated voltage is omitted.
† In case of marking for ø3 units, Lot No. is expressed by digit (month code).

Diameter D (mm)	Dimensions — mm			
	A	B	C	E
3.0	1.5	3.3	3.3	0.8
4.0	1.8	4.3	4.3	1.0
5.0	2.1	5.3	5.3	1.3
6.3	2.4	6.6	6.6	2.2
8.0	3.3	8.3	8.3	2.3

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @120Hz/85°C (mA rms)	Diameter D (mm)	Digi-Key Part No.		Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		Nichicon Part No.
							1	10	100		Qty.	Pricing	
4	22	0.35	3	19	3.0	493-2075-1-ND	.45	3.52	18.40	493-2075-2-ND	2,000	64.00/M	UWX0G220MCL2GB
	100	0.35	4	56	5.0	493-2079-1-ND	.50	3.96	20.70	493-2079-2-ND	1,000	75.60	UWX0G101MCL1GB
	220	0.35	8.8	96	6.3	493-2081-1-ND	.44	3.49	21.00	493-2081-2-ND	1,000	79.80	UWX0G221MCL1GB
	330	0.35	13.2	145	8.0	493-2082-1-ND	.49	3.90	23.50	493-2082-2-ND	1,000	89.30	UWX0G331MCL1GB
6.3	22	0.26	3	21	3.0	493-2083-1-ND	.45	3.52	18.40	493-2083-2-ND	2,000	64.00/M	UWX0J220MCL2GB
	22	0.26	3	28	4.0	493-2084-1-ND	.45	3.52	18.40	493-2084-2-ND	2,000	64.00/M	UWX0J220MCL1GB
	33	0.26	3	37	5.0	493-2085-1-ND	.50	3.96	20.70	493-2085-2-ND	1,000	75.60	UWX0J330MCL1GB
	47	0.26	3	45	5.0	493-2086-1-ND	.50	3.96	20.70	493-2086-2-ND	1,000	75.60	UWX0J470MCL1GB
	100	0.26	6.3	70	6.3	493-2088-1-ND	.44	3.49	21.00	493-2088-2-ND	1,000	79.80	UWX0J101MCL1GB
	220	0.26	13.86	110	8.0	493-2090-1-ND	.49	3.90	23.50	493-2090-2-ND	1,000	89.30	UWX0J221MCL1GB
	330	0.26	20.79	170	8.0	493-2091-1-ND	.49	3.90	23.50	493-2091-2-ND	1,000	89.30	UWX0J331MCL1GB
10	22	0.2	3	33	5.0	493-2092-1-ND	.50	3.96	20.70	493-2092-2-ND	1,000	75.60	UWX1A220MCL1GB
	33	0.2	3.3	41	5.0	493-2093-1-ND	.50	3.96	20.70	493-2093-2-ND	1,000	75.60	UWX1A330MCL1GB
	47	0.2	4.7	52	6.3	493-2094-1-ND	.44	3.49	21.00	493-2094-2-ND	1,000	79.80	UWX1A470MCL1GB
	100	0.2	10	76	6.3	493-2096-1-ND	.44	3.49	21.00	493-2096-2-ND	1,000	79.80	UWX1A101MCL1GB
	220	0.2	22	135	8.0	493-2098-1-ND	.49	3.90	23.50	493-2098-2-ND	1,000	89.30	UWX1A221MCL1GB
16	10	0.16	3	18	3.0	493-2099-1-ND	.45	3.52	18.40	493-2099-2-ND	2,000	64.00/M	UWX1C100MCL2GB
	10	0.16	3	23	4.0	493-2100-1-ND	.45	3.52	18.40	493-2100-2-ND	2,000	64.00/M	UWX1C100MCL1GB
	22	0.16	3.52	37	5.0	493-2101-1-ND	.50	3.96	20.70	493-2101-2-ND	1,000	75.60	UWX1C220MCL1GB
	33	0.16	5.28	49	6.3	493-2102-1-ND	.44	3.49	21.00	493-2102-2-ND	1,000	79.80	UWX1C330MCL1GB
	47	0.16	7.52	58	6.3	493-2103-1-ND	.44	3.49	21.00	493-2103-2-ND	1,000	79.80	UWX1C470MCL1GB

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @120Hz/85°C (mA rms)	Diameter D (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
16	100	0.16	16	86	6.3	493-2105-1-ND	.44	3.49	21.00	493-2105-2-ND	1,000	79.80	UWX1C101MCL1GB
25	4.7	0.14	3	12	3.0	493-2106-1-ND	.45	3.52	18.40	493-2106-2-ND	2,000	64.00/M	UWX1E4R7MCL2GB
	4.7	0.14	3	16	4.0	493-2107-1-ND	.45	3.52	18.40	493-2107-2-ND	2,000	64.00/M	UWX1E4R7MCL1GB
	10	0.14	3	27	5.0	493-2108-1-ND	.50	3.96	20.70	493-2108-2-ND	1,000	75.60	UWX1E100MCL1GB
	22	0.14	5.5	42	6.3	493-2109-1-ND	.44	3.49	21.00	493-2109-2-ND	1,000	79.80	UWX1E220MCL1GB
	33	0.14	8.25	52	6.3	493-2110-1-ND	.44	3.49	21.00	493-2110-2-ND	1,000	79.80	UWX1E330MCL1GB
	47	0.14	11.75	70	8.0	493-2111-1-ND	.49	3.90	23.50	493-2111-2-ND	1,000	89.30	UWX1E470MCL1GB
	100	0.14	25	110	8.0	493-2113-1-ND	.49	3.90	23.50	493-2113-2-ND	1,000	89.30	UWX1E101MCL1GB
35	2.2	0.12	3	8.4	3.0	493-2114-1-ND	.45	3.52	18.40	493-2114-2-ND	2,000	64.00/M	UWX1V2R2MCL2GB
	3.3	0.12	3	10	3.0	493-2115-1-ND	.45	3.52	18.40	493-2115-2-ND	2,000	64.00/M	UWX1V3R3MCL2GB
	4.7	0.12	3	18	4.0	493-2116-1-ND	.45	3.52	18.40	493-2116-2-ND	2,000	64.00/M	UWX1V4R7MCL1GB
	10	0.12	3.5	29	5.0	493-2117-1-ND	.50	3.96	20.70	493-2117-2-ND	1,000	75.60	UWX1V100MCL1GB
	22	0.12	7.7	46	6.3	493-2118-1-ND	.44	3.49	21.00	493-2118-2-ND	1,000	79.80	UWX1V220MCL1GB
	33	0.12	11.55	62	8.0	493-2119-1-ND	.49	3.90	23.50	493-2119-2-ND	1,000	89.30	UWX1V330MCL1GB
	47	0.12	16.45	80	8.0	493-2120-1-ND	.49	3.90	23.50	493-2120-2-ND	1,000	89.30	UWX1V470MCL1GB
50	0.1	0.12	3	1	3.0	493-2121-1-ND	.45	3.52	18.40	493-2121-2-ND	2,000	64.00/M	UWX1H0R1MCL2GB
	0.1	0.12	3	1	4.0	493-2122-1-ND	.45	3.52	18.40	493-2122-2-ND	2,000	64.00/M	UWX1H0R1MCL1GB
	0.33	0.12	3	2.8	3.0	493-2125-1-ND	.45	3.52	18.40	493-2125-2-ND	2,000	64.00/M	UWX1HR33MCL2GB
	0.47	0.12	3	4	3.0	493-2127-1-ND	.45	3.52	18.40	493-2127-2-ND	2,000	64.00/M	UWX1HR47MCL2GB
	0.47	0.12	3	4	4.0	493-2128-1-ND	.45	3.52	18.40	493-2128-2-ND	2,000	64.00/M	UWX1HR47MCL1GB
	1	0.12	3	8	3.0	493-2129-1-ND	.45	3.52	18.40	493-2129-2-ND	2,000	64.00/M	UWX1H010MCL2GB
	1	0.12	3	8.4	4.0	493-2130-1-ND	.45	3.52	18.40	493-2130-2-ND	2,000	64.00/M	UWX1H010MCL1GB
	2.2	0.12	3	10	3.0	493-2131-1-ND	.45	3.52	18.40	493-2131-2-ND	2,000	64.00/M	UWX1H2R2MCL2GB
	2.2	0.12	3	13	4.0	493-2132-1-ND	.45	3.52	18.40	493-2132-2-ND	2,000	64.00/M	UWX1H2R2MCL1GB
	3.3	0.12	3	17	4.0	493-2133-1-ND	.45	3.52	18.40	493-2133-2-ND	2,000	64.00/M	UWX1H3R3MCL1GB
	4.7	0.12	3	20	5.0	493-2134-1-ND	.50	3.96	20.70	493-2134-2-ND	1,000	75.60	UWX1H4R7MCL1GB
	10	0.12	5	33	6.3	493-2135-1-ND	.44	3.49	21.00	493-2135-2-ND	1,000	79.80	UWX1H100MCL1GB
	22	0.12	11	52	8.0	493-2136-1-ND	.49	3.90	23.50	493-2136-2-ND	1,000	89.30	UWX1H220MCL1GB
	33	0.12	16.5	71	8.0	493-2137-1-ND	.49	3.90	23.50	493-2137-2-ND	1,000	89.30	UWX1H330MCL1GB

WT Series Aluminum Electrolytic Capacitors (SMT) General Purpose 105°C

Digi-Reel® RoHS

Applies to: ø3.0 ~ ø8.0 x 5.4 L, ø6.3 x 5.8 L, ø6.3 x 7.7 L

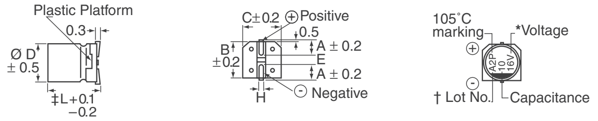

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, “V” for rated voltage is omitted.
† In case of marking for ø3 units, Lot No. is expressed by a digit (month code).
‡ ±0.3 for Ø6.3 x 5.8, Ø6.3 x 7.7

Applies to: ø8.0 x 10.0 L, ø10.0 x 10.0 L

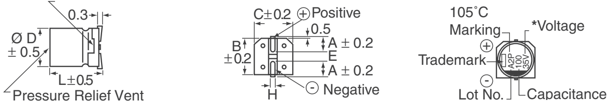

FEATURES: • Chip type, operating over wide temperature range of -55°C ~ 105°C • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • **Marking:** Black print on the case top

Size	Dimensions — mm øD	L	A	B	C	E	H
3.0 x 5.4	3.0	5.4	1.5	3.3	3.3	0.8	0.5 ~ 0.8
4.0 x 5.4	4.0	5.4	1.8	4.3	4.3	1.0	0.5 ~ 0.8
5.0 x 5.4	5.0	5.4	2.1	5.3	5.3	1.3	0.5 ~ 0.8
6.3 x 5.4	6.3	5.4	2.4	6.6	6.6	2.2	0.5 ~ 0.8
6.3 x 5.8	6.3	5.8	2.4	6.6	6.6	2.2	0.5 ~ 0.8
6.3 x 7.7	6.3	7.7	2.4	6.6	6.6	2.2	0.5 ~ 0.8
8.0 x 5.4	8.0	5.4	3.3	8.3	8.3	2.3	0.5 ~ 0.8
8.0 x 10.0	8.0	10.0	2.9	8.3	8.3	3.1	0.8 ~ 1.1
10.0 x 10.0	10.0	10.0	3.2	10.3	10.3	4.5	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current 120Hz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
4	47	0.4	3	36	5.0 x 5.4	493-2140-1-ND	.45	3.57	21.50	493-2140-2-ND	1,000	81.70	UWT0G470MCL1GB
	100	0.4	4	60	6.3 x 5.4	493-2141-1-ND	.53	4.15	25.00	493-2141-2-ND	1,000	95.00	UWT0G101MCL1GB
	220	0.4	8.8	102	8.0 x 5.4	493-2144-1-ND	.53	4.15	25.00	493-2144-2-ND	1,000	95.00	UWT0G221MCL1GB
	330	0.4	13.2	105	6.3 x 7.7	493-2145-1-ND	.58	4.57	27.50	493-2145-2-ND	900	99.00	UWT0G331MCL1GS
	470	0.4	18.8	210	8.0 x 10.0	493-2146-1-ND	.67	5.63	35.28	493-2146-2-ND	500	84.00	UWT0G471MNL1GS
	680	0.4	27.2	210	8.0 x 10.0	493-2147-1-ND	.67	5.63	35.28	493-2147-2-ND	500	84.00	UWT0G681MNL1GS
	1,000	0.4	40	230	8.0 x 10.0	493-2148-1-ND	.67	5.63	35.28	493-2148-2-ND	500	84.00	UWT0G102MNL1GS
6.3	22	0.3	3	22	4.0 x 5.4	493-2150-1-ND	.53	4.18	21.85	493-2150-2-ND	2,000	76.00/M	UWT0J220MCL1GB
	33	0.3	3	30	5.0 x 5.4	493-2151-1-ND	.45	3.57	21.50	493-2151-2-ND	1,000	81.70	UWT0J330MCL1GB
	47	0.3	3	36	5.0 x 5.4	493-2152-1-ND	.45	3.57	21.50	493-2152-2-ND	1,000	81.70	UWT0J470MCL1GB
	100	0.3	6.3	60	6.3 x 5.4	493-2153-1-ND	.53	4.15	25.00	493-2153-2-ND	1,000	95.00	UWT0J101MCL1GB
	220	0.3	13.86	102	8.0 x 5.4	493-2156-1-ND	.53	4.15	25.00	493-2156-2-ND	1,000	95.00	UWT0J221MCL1GB
	330	0.3	20.79	105	6.3 x 7.7	493-2157-1-ND	.58	4.57	27.50	493-2157-2-ND	900	99.00	UWT0J331MCL1GS
	470	0.3	29.61	210	8.0 x 10.0	493-2158-1-ND	.67	5.63	35.28	493-2158-2-ND	500	84.00	UWT0J471MNL1GS
	680	0.3	42.84	210	8.0 x 10.0	493-2159-1-ND	.67	5.63	35.28	493-2159-2-ND	500	84.00	UWT0J681MNL1GS
	1,000	0.3	63	230	8.0 x 10.0	493-2160-1-ND	.67	5.63	35.28	493-2160-2-ND	500	84.00	UWT0J102MNL1GS
	1,500	0.3	94.5	310	10.0 x 10.0	493-2161-1-ND	.91	7.64	47.88	493-2161-2-ND	500	114.00	UWT0J152MNL1GS
10	22	0.24	3	27	5.0 x 5.4	493-2162-1-ND	.45	3.57	21.50	493-2162-2-ND	1,000	81.70	UWT1A220MCL1GB
	47	0.24	4.7	46	6.3 x 5.4	493-2164-1-ND	.53	4.15	25.00	493-2164-2-ND	1,000	95.00	UWT1A470MCL1GB
	100	0.24	10	60	6.3 x 5.4	493-2165-1-ND	.53	4.15	25.00	493-2165-2-ND	1,000	95.00	UWT1A101MCL1GB
	150	0.24	15	86	6.3 x 5.8	493-2166-1-ND	.53	4.15	25.00	493-2166-2-ND	1,000	95.00	UWT1A151MCL1GS
	220	0.24	22	105	6.3 x 7.7	493-2167-1-ND	.69	5.48	33.00	493-2167-2-ND	900	118.80	UWT1A221MCL1GS
	330	0.24	33	195	8.0 x 10.0	493-2168-1-ND	.67	5.63	35.28	493-2168-2-ND	500	84.00	UWT1A331MNL1GS
	470	0.24	47	210	8.0 x 10.0	493-2169-1-ND	.67	5.63	35.28	493-2169-2-ND	500	84.00	UWT1A471MNL1GS
	680	0.24	68	310	10.0 x 10.0	493-2170-1-ND	.91	7.64	47.88	493-2170-2-ND	500	114.00	UWT1A681MNL1GS
	1,000	0.24	100	310	10.0 x 10.0	493-2171-1-ND	.91	7.64	47.88	493-2171-2-ND	500	114.00	UWT1A102MNL1GS
16	10	0.2	3	14	3.0 x 5.4	493-2172-1-ND	.53	4.18	21.85	493-2172-2-ND	2,000	76.00/M	UWT1C100MCL2GB
	10	0.2	3	18	4.0 x 5.4	493-2173-1-ND	.53	4.18	21.85	493-2173-2-ND	2,000	76.00/M	UWT1C100MCL1GB
	22	0.2	3.52	30	5.0 x 5.4	493-2174-1-ND	.45	3.57	21.50	493-2174-2-ND	1,000	81.70	UWT1C220MCL1GB
	33	0.2	5.28	40	6.3 x 5.4	493-2175-1-ND	.53	4.15	25.00	493-2175-2-ND	1,000	95.00	UWT1C330MCL1GB
	47	0.2	7.52	50	6.3 x 5.4	493-2176-1-ND	.53	4.15	25.00	493-2176-2-ND	1,000	95.00	UWT1C470MCL1GB
	100	0.2	16	60	6.3 x 5.4	493-2177-1-ND	.53	4.15	25.00	493-2177-2-ND	1,000	95.00	UWT1C101MCL1GB
	150	0.2	24	95	6.3 x 7.7	493-2178-1-ND	.69	5.48	33.00	493-2178-2-ND	900	118.80	UWT1C151MCL1GS

(Continued)

WT Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current 120Hz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
16	220	0.2	35.2	105	6.3 x 7.7	493-2179-1-ND	.69	5.48	33.00	493-2179-2-ND	900	118.80	UWT1C221MCL1GS
	330	0.2	52.8	195	8.0 x 10.0	493-2180-1-ND	.67	5.63	35.28	493-2180-2-ND	500	84.00	UWT1C331MNL1GS
	470	0.2	75.2	230	8.0 x 10.0	493-2181-1-ND	.67	5.63	35.28	493-2181-2-ND	500	84.00	UWT1C471MNL1GS
	680	0.2	108.8	310	10.0 x 10.0	493-2182-1-ND	.91	7.64	47.88	493-2182-2-ND	500	114.00	UWT1C681MNL1GS
25	4.7	0.16	3	10	3.0 x 5.4	493-2183-1-ND	.53	4.18	21.85	493-2183-2-ND	2,000	76.00/M	UWT1E4R7MCL2GB
	4.7	0.16	3	13	4.0 x 5.4	493-2184-1-ND	.53	4.18	21.85	493-2184-2-ND	2,000	76.00/M	UWT1E4R7MCL1GB
	10	0.16	3	23	5.0 x 5.4	493-2185-1-ND	.45	3.57	21.50	493-2185-2-ND	1,000	81.70	UWT1E100MCL1GB
	22	0.16	5.5	38	6.3 x 5.4	493-2186-1-ND	.53	4.15	25.00	493-2186-2-ND	1,000	95.00	UWT1E220MCL1GB
	33	0.16	8.25	48	6.3 x 5.4	493-2187-1-ND	.53	4.15	25.00	493-2187-2-ND	1,000	95.00	UWT1E330MCL1GB
	47	0.16	11.75	66	8.0 x 5.4	493-2189-1-ND	.53	4.15	25.00	493-2189-2-ND	1,000	95.00	UWT1E470MCL1GB
	100	0.16	25	91	6.3 x 7.7	493-2190-1-ND	.58	4.57	27.50	493-2190-2-ND	900	99.00	UWT1E101MCL1GS
	150	0.16	37.5	140	8.0 x 10.0	493-2191-1-ND	.67	5.63	35.28	493-2191-2-ND	500	84.00	UWT1E151MNL1GS
	220	0.16	55	155	8.0 x 10.0	493-2192-1-ND	.67	5.63	35.28	493-2192-2-ND	500	84.00	UWT1E221MNL1GS
	330	0.16	82.5	190	8.0 x 10.0	493-2193-1-ND	.67	5.63	35.28	493-2193-2-ND	500	84.00	UWT1E331MNL1GS
	470	0.16	117.5	300	10.0 x 10.0	493-2194-1-ND	.91	7.64	47.88	493-2194-2-ND	500	114.00	UWT1E471MNL1GS
35	2.2	0.14	3	7.5	3.0 x 5.4	493-2195-1-ND	.53	4.18	21.85	493-2195-2-ND	2,000	76.00/M	UWT1V2R2MCL2GB
	3.3	0.14	3	9	3.0 x 5.4	493-2196-1-ND	.53	4.18	21.85	493-2196-2-ND	2,000	76.00/M	UWT1V3R3MCL2GB
	4.7	0.14	3	15	4.0 x 5.4	493-2197-1-ND	.53	4.18	21.85	493-2197-2-ND	2,000	76.00/M	UWT1V4R7MCL1GB
	10	0.14	3.5	25	5.0 x 5.4	493-2198-1-ND	.45	3.57	21.50	493-2198-2-ND	1,000	81.70	UWT1V100MCL1GB
	22	0.14	7.7	42	6.3 x 5.4	493-2199-1-ND	.53	4.15	25.00	493-2199-2-ND	1,000	95.00	UWT1V220MCL1GB
	33	0.14	11.55	59	8.0 x 5.4	493-2201-1-ND	.53	4.15	25.00	493-2201-2-ND	1,000	95.00	UWT1V330MCL1GB
	47	0.14	16.45	63	6.3 x 5.8	493-2202-1-ND	.53	4.15	25.00	493-2202-2-ND	1,000	95.00	UWT1V470MCL1GS
	100	0.14	35	84	6.3 x 7.7	493-2203-1-ND	.58	4.57	27.50	493-2203-2-ND	900	99.00	UWT1V101MCL1GS
	150	0.14	52.5	155	8.0 x 10.0	493-2204-1-ND	.67	5.63	35.28	493-2204-2-ND	500	84.00	UWT1V151MNL1GS
	220	0.14	77	190	8.0 x 10.0	493-2205-1-ND	.67	5.63	35.28	493-2205-2-ND	500	84.00	UWT1V221MNL1GS
	330	0.14	115.5	300	10.0 x 10.0	493-2206-1-ND	.91	7.64	47.88	493-2206-2-ND	500	114.00	UWT1V331MNL1GS
50	0.1	0.14	3	1	4.0 x 5.4	493-2208-1-ND	.53	4.18	21.85	—	—	—	UWT1H0R1MCL1GB
	0.22	0.14	3	2.6	4.0 x 5.4	493-2210-1-ND	.53	4.18	21.85	493-2210-2-ND	2,000	76.00/M	UWT1HR22MCL1GB
	0.47	0.14	3	3.8	4.0 x 5.4	493-2214-1-ND	.53	4.18	21.85	493-2214-2-ND	2,000	76.00/M	UWT1HR47MCL1GB
	1	0.14	3	5.9	3.0 x 5.4	493-2215-1-ND	.53	4.18	21.85	493-2215-2-ND	2,000	76.00/M	UWT1H010MCL2GB
	1	0.14	3	6.3	4.0 x 5.4	493-2216-1-ND	.53	4.18	21.85	493-2216-2-ND	2,000	76.00/M	UWT1H010MCL1GB
	2.2	0.14	3	9	3.0 x 5.4	493-2217-1-ND	.53	4.18	21.85	493-2217-2-ND	2,000	76.00/M	UWT1H2R2MCL2GB
	2.2	0.14	3	11	4.0 x 5.4	493-2218-1-ND	.53	4.18	21.85	493-2218-2-ND	2,000	76.00/M	UWT1H2R2MCL1GB
	3.3	0.14	3	14	4.0 x 5.4	493-2219-1-ND	.53	4.18	21.85	493-2219-2-ND	2,000	76.00/M	UWT1H3R3MCL1GB
	4.7	0.14	3	19	5.0 x 5.4	493-2220-1-ND	.45	3.57	21.50	493-2220-2-ND	1,000	81.70	UWT1H4R7MCL1GB
	10	0.14	5	30	6.3 x 5.4	493-2221-1-ND	.53	4.15	25.00	493-2221-2-ND	1,000	95.00	UWT1H100MCL1GB
	22	0.14	11	51	8.0 x 5.4	493-2223-1-ND	.58	4.57	27.50	493-2223-2-ND	1,000	104.50	UWT1H220MCL1GB
	33	0.14	16.5	60	6.3 x 7.7	493-2224-1-ND	.58	4.57	27.50	493-2224-2-ND	900	99.00	UWT1H330MCL1GS
	47	0.14	23.5	63	6.3 x 7.7	493-2225-1-ND	.69	5.48	33.00	493-2225-2-ND	900	118.80	UWT1H470MCL1GS
	100	0.14	50	140	8.0 x 10.0	493-2226-1-ND	.67	5.63	35.28	493-2226-2-ND	500	84.00	UWT1H101MNL1GS
	150	0.14	75	180	10.0 x 10.0	493-2227-1-ND	.91	7.64	47.88	493-2227-2-ND	500	114.00	UWT1H151MNL1GS
	220	0.14	110	220	10.0 x 10.0	493-2228-1-ND	.91	7.64	47.88	493-2228-2-ND	500	114.00	UWT1H221MNL1GS

UD Series Aluminum Electrolytic Capacitors (SMT) Low Impedance 105°C

Digi-Reel® RoHS

Diameter D (mm): ø4.0 ~ ø6.3

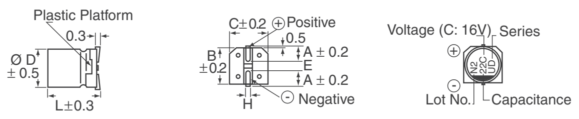

Diameter D (mm): ø8.0, ø10.0

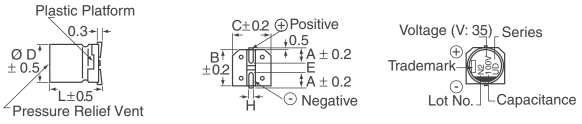

FEATURES:

• Chip type, low impedance temperature range up to 105°C • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • **Marking:** Black print on the case top

Size	Dimensions — mm øD	L	A	B	C	E	H
4.0 x 5.8	4.0	5.8	1.8	4.3	4.3	1.0	0.5 ~ 0.8
5.0 x 5.8	5.0	5.8	2.1	5.3	5.3	1.3	0.5 ~ 0.8
6.3 x 5.8	6.3	5.8	2.4	6.6	6.6	2.2	0.5 ~ 0.8
6.3 x 7.7	6.3	7.7	2.4	6.6	6.6	2.2	0.5 ~ 0.8
8.0 x 10.0	8.0	10.0	2.9	8.3	8.3	3.1	0.8 ~ 1.1
10.0 x 10.0	10.0	10.0	3.2	10.3	10.3	4.5	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Impedance (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Current @100KHz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
6.3	47	0.24	0.76	3	150	5.0 x 5.8	493-2231-1-ND	.72	5.73	34.50	493-2231-2-ND	1,000	131.10	UUD0J470MCL1GS
	68	0.24	0.44	4.284	230	6.3 x 5.8	493-2233-1-ND	.58	4.89	30.66	493-2233-2-ND	1,000	124.10	UUD0J680MCL1GS
	100	0.24	0.44	6.3	230	6.3 x 5.8	493-2234-1-ND	.58	4.89	30.66	493-2234-2-ND	1,000	124.10	UUD0J101MCL1GS
	150	0.24	0.44	9.45	230	6.3 x 5.8	493-2235-1-ND	.58	4.89	30.66	493-2235-2-ND	1,000	124.10	UUD0J151MCL1GS
	220	0.24	0.44	13.86	230	6.3 x 5.8	493-2236-1-ND	.58	4.89	30.66	493-2236-2-ND	1,000	124.10	UUD0J221MCL1GS
	330	0.24	0.34	20.79	280	6.3 x 7.7	493-2237-1-ND	.74	6.16	38.64	493-2237-2-ND	900	149.04	UUD0J331MCL1GS
	470	0.28	0.17	29.61	450	8.0 x 10.0	493-2238-1-ND	.91	7.69	52.20	—	—	—	UUD0J471MNL1GS
	680	0.28	0.17	42.84	450	8.0 x 10.0	493-2239-1-ND	.91	7.69	52.20	493-2239-2-ND	500	137.75	UUD0J681MNL1GS
	1,000	0.28	0.17	63	450	8.0 x 10.0	493-2240-1-ND	.91	7.69	52.20	493-2240-2-ND	500	137.75	UUD0J102MNL1GS
	1,500	0.28	0.09	94.5	670	10.0 x 10.0	493-2241-1-ND	1.10	9.17	67.28	493-2241-2-ND	500	175.50	UUD0J152MNL1GS
10	22	0.2	1.8	3	80	4.0 x 5.8	493-2242-1-ND	.64	5.06	30.50	493-2242-2-ND	2,000	110.00/M	UUD1A220MCL1GS
	33	0.2	0.76	3.3	150	5.0 x 5.8	493-2244-1-ND	.72	5.73	34.50	493-2244-2-ND	1,000	131.10	UUD1A330MCL1GS
	47	0.2	0.44	4.7	230	6.3 x 5.8	493-2245-1-ND	.58	4.89	30.66	493-2245-2-ND	1,000	124.10	UUD1A470MCL1GS
	68	0.2	0.44	6.8	230	6.3 x 5.8	493-2247-1-ND	.58	4.89	30.66	493-2247-2-ND	1,000	124.10	UUD1A680MCL1GS
	100	0.2	0.44	10	230	6.3 x 5.8	493-2248-1-ND	.58	4.89	30.66	493-2248-2-ND	1,000	124.10	UUD1A101MCL1GS
	150	0.2	0.44	15	230	6.3 x 5.8	493-2249-1-ND	.58	4.89	30.66	493-2249-2-ND	1,000	124.00	UUD1A151MCL1GS
	220	0.2	0.34	22	280	6.3 x 7.7	493-2250-1-ND	.74	6.16	38.64	493-2250-2-ND	900	149.04	UUD1A221MCL1GS
	330	0.24	0.17	33	450	8.0 x 10.0	493-2251-1-ND	.91	7.69	52.20	493-2251-2-ND	500	137.75	UUD1A331MNL1GS
	470	0.24	0.17	47	450	8.0 x 10.0	493-2252-1-ND	.91	7.69	52.20	493-2252-2-ND	500	137.75	UUD1A471MNL1GS
	680	0.24	0.09	68	670	10.0 x 10.0	493-2253-1-ND	1.10	9.17	67.28	493-2253-2-ND	500	175.50	UUD1A681MNL1GS
	1,000	0.24	0.09	100	670	10.0 x 10.0	493-2254-1-ND	1.10	9.17	67.28	493-2254-2-ND	500	175.50	UUD1A102MNL1GS

(Continued)

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Impedance (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Current @100KHz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								1	10	100		Qty.	Pricing	
16	22	0.16	0.76	3.52	150	5.0 x 5.8	493-2256-1-ND	.72	5.73	34.50	493-2256-2-ND	1,000	131.10	UUD1C220MCL1GS
	47	0.16	0.44	7.52	230	6.3 x 5.8	493-2259-1-ND	.58	4.89	30.66	493-2259-2-ND	1,000	124.10	UUD1C470MCL1GS
	56	0.16	0.44	8.96	230	6.3 x 5.8	493-2260-1-ND	.58	4.89	30.66	493-2260-2-ND	1,000	124.10	UUD1C560MCL1GS
	68	0.16	0.44	10.88	230	6.3 x 5.8	493-2261-1-ND	.58	4.89	30.66	493-2261-2-ND	1,000	124.10	UUD1C680MCL1GS
	100	0.16	0.44	16	230	6.3 x 5.8	493-2262-1-ND	.58	4.89	30.66	493-2262-2-ND	1,000	124.10	UUD1C101MCL1GS
	150	0.16	0.34	24	280	6.3 x 7.7	493-2263-1-ND	.74	6.16	38.64	493-2263-2-ND	900	149.04	UUD1C151MCL1GS
	220	0.16	0.34	35.2	280	6.3 x 7.7	493-2264-1-ND	.74	6.16	38.64	493-2264-2-ND	900	149.04	UUD1C221MCL1GS
	330	0.2	0.17	52.8	450	8.0 x 10.0	493-2265-1-ND	.91	7.69	52.20	493-2265-2-ND	500	137.75	UUD1C331MNL1GS
	470	0.2	0.17	75.2	450	8.0 x 10.0	493-2266-1-ND	.91	7.69	52.20	493-2266-2-ND	500	137.75	UUD1C471MNL1GS
	680	0.2	0.09	108.8	670	10.0 x 10.0	493-2267-1-ND	1.10	9.17	67.28	493-2267-2-ND	500	175.50	UUD1C681MNL1GS
25	22	0.14	0.76	5.5	150	5.0 x 5.8	493-2270-1-ND	.72	5.73	34.50	493-2270-2-ND	1,000	131.10	UUD1E220MCL1GS
	33	0.14	0.44	8.25	230	6.3 x 5.8	493-2272-1-ND	.58	4.89	30.66	493-2272-2-ND	1,000	124.10	UUD1E330MCL1GS
	47	0.14	0.44	11.75	230	6.3 x 5.8	493-2273-1-ND	.58	4.89	30.66	493-2273-2-ND	1,000	124.10	UUD1E470MCL1GS
	56	0.14	0.44	14	230	6.3 x 5.8	493-2274-1-ND	.58	4.89	30.66	493-2274-2-ND	1,000	124.10	UUD1E560MCL1GS
	68	0.14	0.44	17	230	6.3 x 5.8	493-2275-1-ND	.58	4.89	30.66	493-2275-2-ND	1,000	124.10	UUD1E680MCL1GS
	100	0.14	0.34	25	280	6.3 x 7.7	493-2276-1-ND	.74	6.16	38.64	493-2276-2-ND	900	149.04	UUD1E101MCL1GS
	150	0.16	0.17	37.5	450	8.0 x 10.0	493-2277-1-ND	.91	7.69	52.20	493-2277-2-ND	500	137.75	UUD1E151MNL1GS
	220	0.16	0.17	55	450	8.0 x 10.0	493-2278-1-ND	.91	7.69	52.20	493-2278-2-ND	500	137.75	UUD1E221MNL1GS
	330	0.16	0.17	82.5	450	8.0 x 10.0	493-2279-1-ND	.91	7.69	52.20	493-2279-2-ND	500	137.75	UUD1E331MNL1GS
	470	0.16	0.09	117.5	670	10.0 x 10.0	493-2280-1-ND	1.10	9.17	67.28	493-2280-2-ND	500	175.50	UUD1E471MNL1GS
35	4.7	0.12	1.8	3	80	4.0 x 5.8	493-2281-1-ND	.64	5.06	30.50	493-2281-2-ND	2,000	110.00/M	UUD1V4R7MCL1GS
	10	0.12	0.76	3.5	150	5.0 x 5.8	493-2282-1-ND	.72	5.73	34.50	493-2282-2-ND	1,000	131.10	UUD1V100MCL1GS
	15	0.12	0.76	5.25	150	5.0 x 5.8	493-2283-1-ND	.72	5.73	34.50	493-2283-2-ND	1,000	131.10	UUD1V150MCL1GS
	22	0.12	0.76	7.7	150	5.0 x 5.8	493-2284-1-ND	.72	5.73	34.50	493-2284-2-ND	1,000	131.10	UUD1V220MCL1GS
	27	0.12	0.44	9.45	230	6.3 x 5.8	493-2285-1-ND	.58	4.89	30.66	493-2285-2-ND	1,000	124.10	UUD1V270MCL1GS
	33	0.12	0.44	11.55	230	6.3 x 5.8	493-2286-1-ND	.58	4.89	30.66	493-2286-2-ND	1,000	124.10	UUD1V330MCL1GS
	47	0.12	0.44	16.45	230	6.3 x 5.8	493-2287-1-ND	.58	4.89	30.66	493-2287-2-ND	1,000	124.10	UUD1V470MCL1GS
	56	0.12	0.34	19.6	280	6.3 x 7.7	493-2288-1-ND	.74	6.16	38.64	493-2288-2-ND	900	149.04	UUD1V560MCL1GS
	68	0.12	0.34	23.8	280	6.3 x 7.7	493-2289-1-ND	.74	6.16	38.64	493-2289-2-ND	900	149.04	UUD1V680MCL1GS
	100	0.14	0.17	35	450	8.0 x 10.0	493-2290-1-ND	.91	7.69	52.20	493-2290-2-ND	500	137.75	UUD1V101MNL1GS
	150	0.14	0.17	52.5	450	8.0 x 10.0	493-2291-1-ND	.91	7.69	52.20	493-2291-2-ND	500	137.75	UUD1V151MNL1GS
	220	0.14	0.17	77	450	8.0 x 10.0	493-2292-1-ND	.91	7.69	52.20	493-2292-2-ND	500	137.75	UUD1V221MNL1GS
	330	0.14	0.09	115.5	670	10.0 x 10.0	493-2293-1-ND	1.10	9.17	67.28	493-2293-2-ND	500	175.50	UUD1V331MNL1GS
50	1	0.12	5	3	30	4.0 x 5.8	493-2294-1-ND	.64	5.06	30.50	493-2294-2-ND	2,000	110.00/M	UUD1H010MCL1GS
	2.2	0.12	5	3	30	4.0 x 5.8	493-2295-1-ND	.64	5.06	30.50	493-2295-2-ND	2,000	110.00/M	UUD1H2R2MCL1GS
	4.7	0.12	1.52	3	85	5.0 x 5.8	493-2297-1-ND	.72	5.73	34.50	493-2297-2-ND	1,000	131.10	UUD1H4R7MCL1GS
	10	0.12	0.88	5	165	6.3 x 5.8	493-2298-1-ND	.58	4.89	30.66	493-2298-2-ND	1,000	124.10	UUD1H100MCL1GS
	15	0.12	0.88	7.5	165	6.3 x 5.8	493-2299-1-ND	.58	4.89	30.66	493-2299-2-ND	1,000	124.10	UUD1H150MCL1GS
	22	0.12	0.88	11	165	6.3 x 5.8	493-2300-1-ND	.58	4.89	30.66	493-2300-2-ND	1,000	124.10	UUD1H220MCL1GS
	27	0.12	0.68	13.5	185	6.3 x 7.7	493-2301-1-ND	.74	6.16	38.64	493-2301-2-ND	900	149.04	UUD1H270MCL1GS
	33	0.12	0.68	16.5	185	6.3 x 7.7	493-2302-1-ND	.74	6.16	38.64	493-2302-2-ND	900	149.04	UUD1H330MCL1GS
	47	0.12	0.68	23.5	185	6.3 x 7.7	493-2303-1-ND	.74	6.16	38.64	493-2303-2-ND	900	149.04	UUD1H470MCL1GS
	56	0.14	0.34	28	300	8.0 x 10.0	493-2304-1-ND	.91	7.69	52.20	493-2304-2-ND	500	137.75	UUD1H560MNL1GS
	68	0.14	0.34	34	300	8.0 x 10.0	493-2305-1-ND	.91	7.69	52.20	493-2305-2-ND	500	137.75	UUD1H680MNL1GS
	100	0.14	0.34	50	300	8.0 x 10.0	493-2306-1-ND	.91	7.69	52.20	493-2306-2-ND	500	137.75	UUD1H101MNL1GS
	150	0.14	0.18	75	670	10.0 x 10.0	493-2307-1-ND	1.10	9.17	67.28	493-2307-2-ND	500	175.50	UUD1H151MNL1GS
	220	0.14	0.18	110	670	10.0 x 10.0	493-2308-1-ND	1.10	9.17	67.28	493-2308-2-ND	500	175.50	UUD1H221MNL1GS

F

CF Series Aluminum Solid Electrolytic Capacitors

Digi-Reel® RoHS

FEATURES:
• Ultra Low ESR, High ripple Current • Load Life of 2,000 hours at 105°C • SMD Type: Lead Free reflow soldering condition at 260°C peak correspondence • Adapted to the RoHS Directive
• **Marking:** Navy blue print on the case top

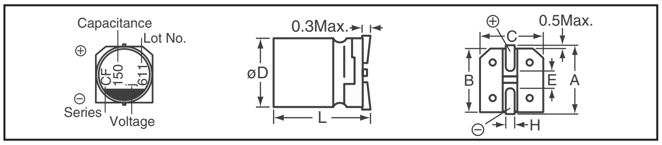

Size	Dimensions — mm						
	øD	L	A	B	C	E	H
6.3 x 6.0	6.3	6.0	7.3	6.6	6.6	2.1	0.5 ~ 0.8
8.0 x 7.0	8.0	7.0	9.0	8.3	8.3	3.2	0.8 ~ 1.1
10.0 x 8.0	10.0	8.0	11.0	10.3	10.3	4.6	0.8 ~ 1.1
10.0 x 10.0	10.0	10.0	11.0	10.3	10.3	4.6	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Rated Voltage Range	2.5 ~ 16V
Rated Capacitance Range	33 ~ 1,500µF

Rated Voltage (VDC)	Cap. (µF)	tan δ	Leakage Current (µA)	Rated Ripple Current 100kHz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
							1	10	100		Qty.	Pricing	
2.5	1,500	0.12	750	4,700	10.0 x 10.0	493-2978-1-ND	2.08	17.27	152.40	493-2978-2-ND	500	406.50	PCF0E152MCL1GS
4	680	0.12	544	4,400	10.0 x 8.0	493-2983-1-ND	2.09	17.14	137.94	493-2983-2-ND	500	355.50	PCF0G681MCL1GS
6.3	120	0.12	151	3,000	6.3 x 6.0	493-2985-1-ND	1.40	11.70	85.91	493-2985-2-ND	1,000	386.00	PCF0J121MCL1GS
	220	0.12	277	3,400	8.0 x 7.0	493-2987-1-ND	1.40	11.70	85.91	493-2987-2-ND	1,000	386.00	PCF0J221MCL1GS
	330	0.12	416	4,200	10.0 x 8.0	493-2988-1-ND	1.92	15.74	126.72	493-2988-2-ND	500	326.50	PCF0J331MCL1GS
	680	0.12	856	5,000	10.0 x 10.0	493-2989-1-ND	2.19	17.96	144.54	493-2989-2-ND	500	372.50	PCF0J681MCL1GS
10	47	0.12	94	2,600	6.3 x 6.0	493-2990-1-ND	1.49	12.22	98.34	493-2990-2-ND	1,000	447.00	PCF1A470MCL1GS
	56	0.12	112	2,500	6.3 x 6.0	493-2991-1-ND	1.51	12.34	99.33	493-2991-2-ND	1,000	452.00	PCF1A560MCL1GS
	120	0.12	240	3,000	8.0 x 7.0	493-2992-1-ND	1.58	12.92	103.95	493-2992-2-ND	1,000	473.00	PCF1A121MCL1GS
	150	0.12	300	3,200	8.0 x 7.0	493-2994-1-ND	1.71	13.98	112.53	493-2994-2-ND	1,000	512.00	PCF1A151MCL6GS
	270	0.12	540	3,600	10.0 x 8.0	493-2995-1-ND	1.92	15.74	126.72	493-2995-2-ND	500	326.50	PCF1A271MCL1GS
	470	0.12	940	4,600	10.0 x 10.0	493-2996-1-ND	2.11	17.26	138.93	493-2996-2-ND	500	358.00	PCF1A471MCL1GS
	560	0.12	1,120	4,800	10.0 x 10.0	493-2997-1-ND	2.23	18.25	146.85	493-2997-2-ND	500	378.50	PCF1A561MCL1GS
16	33	0.12	106	2,400	6.3 x 6.0	493-2998-1-ND	1.52	12.46	100.32	493-2998-2-ND	1,000	456.00	PCF1C330MCL1GS
	39	0.12	124	2,400	6.3 x 6.0	493-2999-1-ND	1.53	12.55	100.98	493-2999-2-ND	1,000	459.00	PCF1C390MCL1GS
	82	0.12	262	3,200	8.0 x 7.0	493-3001-1-ND	1.60	13.12	105.60	493-3001-2-ND	1,000	480.00	PCF1C820MCL1GS
	150	0.12	480	3,500	10.0 x 8.0	493-3002-1-ND	1.78	14.60	117.48	493-3002-2-ND	500	302.50	PCF1C151MCL1GS
	220	0.12	704	3,900	10.0 x 10.0	493-3003-1-ND	2.13	17.47	140.58	493-3003-2-ND	500	362.00	PCF1C221MCL1GS

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

nichicon LF Series Aluminum Polymer Electrolytic Capacitors

Features: • Ultra Low ESR, High ripple Current • Load Life of 2,000 hours at 105°C • Radial Type: Lead Free flow soldering condition complete correspondence • Adapted to the RoHS Directive • Marking: Navy blue print on the case top

Specifications: • Temperature Range: -55°C ~ 150°C • Rated Voltage Range: 2.5V ~ 16V • Rated Capacitance Range: 270 ~ 1,000µF • Capacitance Tolerance: ±20% @ 120Hz, 20°C

Size øDxL	Dimensions — mm øD	L	P	ød
8.0 x 9.0	8.0	8.5	3.5	0.6
8.0 x 12.0	8.0	11.5	3.5	0.6
10.0 x 13.0	10.0	12.5	5.0	0.6

Rated Voltage	Cap. (µF)	tan δ	Leakage Current (0.2CV) (µA)	Rated Ripple Current 100kHz/105°C (mArms)	Case Size øDxL(mm)	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
2.5	560	0.08	280	4,800	8.0 x 9.0	493-3004-ND	1.02	7.75	55.46	PLF0E561MCO1
	820	0.08	410	5,200	8.0 x 9.0	493-3006-ND	.76	5.60	38.40	PLF0E821MCO6
	820	0.08	410	6,200	8.0 x 12.0	493-3007-ND	.76	5.60	38.40	PLF0E821MDO1
	1,000	0.08	500	6,500	10.0 x 13.0	493-3008-ND	1.35	10.68	80.10	PLF0E102MDO1
4	560	0.08	448	5,200	8.0 x 9.0	493-3009-ND	.76	5.60	38.40	PLF0G561MCO6
	560	0.08	448	5,500	8.0 x 12.0	493-3010-ND	.76	5.60	38.40	PLF0G561MDO1
	680	0.08	544	6,200	8.0 x 12.0	493-3011-ND	.91	6.96	49.76	PLF0G681MDO1
	820	0.08	656	6,500	10.0 x 13.0	493-3012-ND	.91	6.96	49.76	PLF0G821MDO1
6.3	470	0.08	592	5,200	8.0 x 9.0	493-3013-ND	.76	5.60	38.40	PLF0J471MCO6
	470	0.08	592	5,500	8.0 x 12.0	493-3014-ND	.76	5.60	38.40	PLF0J471MDO1
	680	0.08	857	6,300	10.0 x 13.0	493-3015-ND	1.54	12.12	90.90	PLF0J681MDO1
10	270	0.08	540	4,900	8.0 x 12.0	493-3016-ND	.84	6.37	45.57	PLF1A271MDO1
	470	0.08	940	5,700	10.0 x 13.0	493-3017-ND	1.06	8.09	57.89	PLF1A471MDO1
16	270	0.08	864	5,100	8.0 x 12.0	493-3018-ND	.84	6.37	45.57	PLF1C271MDO1
	470	0.08	1,504	6,100	10.0 x 13.0	493-3019-ND	1.06	8.09	57.89	PLF1C471MDO1

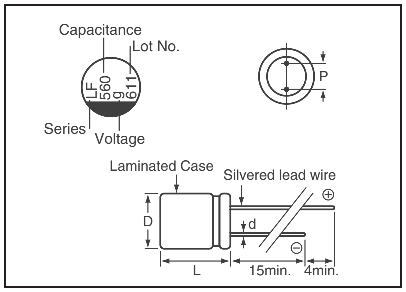

TT Series Aluminum Polymer Electrolytic Capacitors

Features:
- Miniature sized
- Low impedance
- High reliability for switching power supplies

Specifications: • Temperature Range: -40°C ~ 105°C
- Capacitance Tolerance: ±20% @ 120Hz, 20°C
- Leakage Current: After 2 minutes application of rated voltage, leakage current is less than 0.03CV or 3 (µA), whichever is greater.

Size øDxL	Dimensions — mm øD	L	P	ød
4 x 7	4	7	1.5	0.45
6.3 x 7	6.3	7	2.5	0.5 (0.45)
6.3 x 9	6.3	9	2.5	0.5 (0.45)
8 x 9	8	9	3.5	0.6
8 x 11.5	8	11.5	3.5	0.6

Rated Voltage	Cap. (µF)	tan δ	Impedance 100kHz/20°C (Ω) Max.	Rated Ripple Current 100kHz/105°C (mArms)	Case Size øDxL(mm)	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
10	220	0.28	0.68	230	8 x 9	493-3270-ND	.52	3.65	24.03	UTT1A221MPD
16	100	0.24	1.1	163	6.3 x 9	493-3271-ND	.50	3.45	20.70	UTT1C101MDD
	220	0.24	0.68	230	8 x 9	493-3272-ND	.52	3.65	24.03	UTT1C221MPD
	330	0.24	0.68	230	8 x 9	493-3273-ND	.52	3.65	24.03	UTT1C331MPD
	470	0.24	0.40	298	8 x 11.5	493-3274-ND	.56	3.94	25.92	UTT1C471MPD
25	47	0.18	1.1	163	6.3 x 9	493-3275-ND	.50	3.45	20.70	UTT1E470MDD
	100	0.18	0.68	230	8 x 9	493-3276-ND	.52	3.65	24.03	UTT1E101MPD
	220	0.18	0.40	298	8 x 11.5	493-3277-ND	.56	3.94	25.92	UTT1E221MPD
	330	0.18	0.40	298	8 x 11.5	493-3278-ND	.56	3.94	25.92	UTT1E331MPD
50	1	0.14	30	23	4 x 7	493-3279-ND	.31	2.15	12.90	UTT1H010MDD
	2.2	0.14	23	26	4 x 7	493-3280-ND	.31	2.15	12.90	UTT1H2R2MDD
	10	0.14	4.4	84	6.3 x 7	493-3281-ND	.42	2.95	17.70	UTT1H100MDD
	22	0.14	2.4	112	6.3 x 9	493-3282-ND	.50	3.45	20.70	UTT1H220MDD
	47	0.14	1.4	162	8 x 9	493-3283-ND	.52	3.65	24.03	UTT1H470MPD

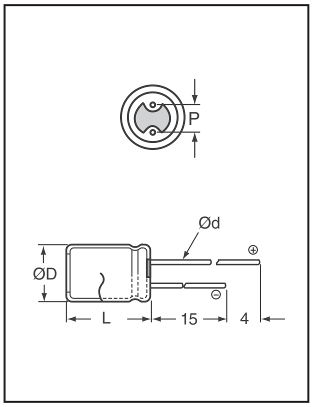

LE Series Aluminum Electrolytic Capacitors

Features: • Ultra Low ESR, High ripple current • Load life of 2,000 hours at 105°C • Radial lead type: Lead free flow soldering condition correspondence • Adapted to the RoHS directive • Marking: Navy blue print on the case top

Specifications: • Temperature Range: -55°C ~ 105 °C • Capacitance Tolerance: ±20% @ 120Hz, 20°C • Leakage Current: Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Size øDxL	Dimensions — mm øD	L	P	ød
8.0 x 9.0	8.0	8.5	3.5	0.6
8.0 x 12.0	8.0	11.5	3.5	0.6
10.0 x 13.0	10.0	12.5	5.0	0.6

Rated Voltage	Capacitance (µF)	tan δ	Leakage Current (µA)	Rated Ripple Current 100kHz/105°C (mArms)	Case Size øDxL(mm)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2.5	560	0.08	280	6,100	8.0 x 9.0	493-3057-ND	1.77	1.40	1.05	PLE0E561MCO1
	820	0.08	410	6,300	8.0 x 9.0	493-3058-ND	1.77	1.40	1.05	PLE0E821MCO6
	820	0.08	410	6,600	8.0 x 12.0	493-3059-ND	1.77	1.40	1.05	PLE0E821MDO1
	1,000	0.08	500	7,100	10.0 x 13.0	493-3060-ND	1.80	1.46	1.12	PLE0E102MDO1
	1,500	0.08	750	7,300	10.0 x 13.0	493-3061-ND	1.80	1.46	1.12	PLE0E152MDO1
4	560	0.08	448	6,000	8.0 x 9.0	493-3062-ND	1.77	1.40	1.05	PLE0G561MCO1
	680	0.08	544	6,500	8.0 x 12.0	493-3063-ND	1.77	1.40	1.05	PLE0G681MDO1
	820	0.08	656	7,000	10.0 x 13.0	493-3064-ND	1.80	1.46	1.12	PLE0G821MDO1
	1,200	0.08	960	7,200	10.0 x 13.0	493-3065-ND	1.80	1.46	1.12	PLE0G122MDO1
6.3	470	0.08	592	6,400	8.0 x 12.0	493-3066-ND	1.77	1.40	1.05	PLE0J471MDO1
	680	0.08	857	6,700	10.0 x 13.0	493-3067-ND	1.73	1.40	1.07	PLE0J681MDO1
	820	0.08	1,033	6,800	10.0 x 13.0	493-3068-ND	1.80	1.46	1.12	PLE0J821MDO1

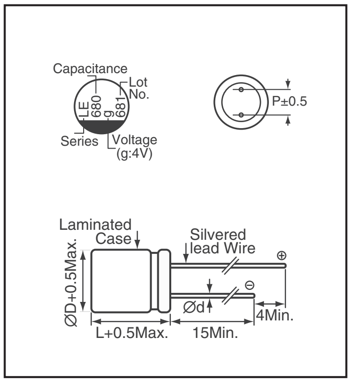

NEW! F8 Series Aluminum Polymer Electrolytic Capacitors

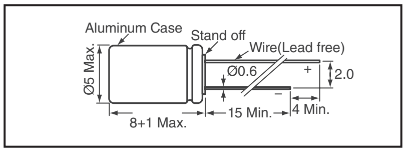

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR and low ESL at a high frequency range • High ripple current capability • Long life and high reliability

Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed 150% of the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tan δ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Box Pricing 2,000	Nichicon Part No.
2.5	100	500	0.10	7	4200	493-3804-1-ND	.98	.82	.52	493-3804-2-ND	195.20/M	RF80E101MDN1PX
	330	500	0.10	7	4200	493-3805-1-ND	1.03	.87	.55	493-3805-2-ND	206.40/M	RF80E331MDN1PX
	470	500	0.10	7	4200	493-3806-1-ND	.81	.69	.47	493-3806-2-ND	195.00/M	RF80E471MDN1PX
	560	500	0.10	7	4200	493-3807-1-ND	.85	.73	.49	493-3807-2-ND	204.00/M	RF80E561MDN1PX
4.0	330	500	0.10	8	4000	493-3808-1-ND	1.03	.87	.55	493-3808-2-ND	206.40/M	RF80G331MDN1PX
6.3	270	500	0.10	11	3700	493-3809-1-ND	.81	.69	.47	493-3809-2-ND	195.00/M	RF80J271MDN1PX

NEW! SL and SH Series Polymer Electrolytic Capacitors

Digi-Reel® RoHS COMPLIANT

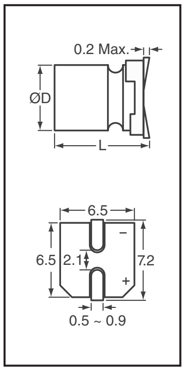

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Low profile type. (Height: 4.5mm Maximum and 5mm Maximum)
Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the initial specified value

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Nichicon Part No.
2.5	100	300	0.12	16	3500	6.3 x 4.2	493-3815-1-ND	.98	.83	.52	493-3815-2-ND	209.00	RSL0E101MCN1GB
	220	300	0.12	16	3500	6.3 x 4.2	493-3816-1-ND	1.04	.87	.64	493-3816-2-ND	287.00	RSL0E221MCN1GB
	330	413	0.12	16	3500	6.3 x 4.2	493-3817-1-ND	.83	.71	.48	493-3817-2-ND	213.00	RSL0E331MCN1GB
	390	488	0.12	20	3000	6.3 x 4.7	493-3818-1-ND	.86	.73	.50	493-3818-2-ND	219.00	RSH0E391MCN1GB
6.3	100	315	0.12	18	3200	6.3 x 4.2	493-3819-1-ND	1.00	.84	.53	493-3819-2-ND	213.00	RSL0J101MCN1GB
	150	473	0.12	18	3200	6.3 x 4.2	493-3820-1-ND	1.03	.86	.64	493-3820-2-ND	284.00	RSL0J151MCN1GB
	220	693	0.12	18	3200	6.3 x 4.2	493-3821-1-ND	.84	.71	.49	493-3821-2-ND	214.00	RSL0J221MCN1GB
	270	851	0.12	20	3000	6.3 x 4.7	493-3822-1-ND	.86	.73	.50	493-3822-2-ND	219.00	RSH0J271MCN1GB
16	15	300	0.12	45	1900	6.3 x 4.2	493-3823-1-ND	1.35	1.11	.89	493-3823-2-ND	404.00	RSL1C150MCN1GB

NEW! PS and PA Series
Polymer Electrolytic Capacitors

Digi-Reel® RoHS COMPLIANT

Size	Dimensions — mm				
øD x L	**W**	**H**	**C**	**P**	**R**
6.3 x 5.7	6.5	6.5	7.2	2.1	0.5 ~ 0.9
8 x 6.7	8.3	8.3	9.0	3.2	0.8 ~ 1.1
8 x 11.7	8.3	8.3	9.0	3.2	0.8 ~ 1.1
10 x 7.7	10.3	10.3	11.0	4.6	0.8 ~ 1.1
10 x 12.4	10.3	10.3	11.0	4.6	0.8 ~ 1.1

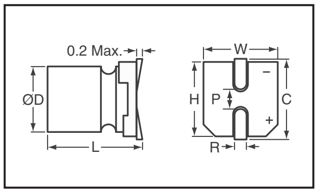

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability

Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the initial specified value

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	680	425	0.12	13	4500	8 x 11.7	493-3824-1-ND	1.34	1.10	.89	493-3824-2-ND	500	227.00	RPS0E681MCN1GS
	1,500	938	0.12	10	5500	10 x 12.4	493-3825-1-ND	1.44	1.19	.96	493-3825-2-ND	400	230.40	RPS0E152MCN1GS
4.0	100	80	0.12	35	2200	6.3 x 5.7	493-3826-1-ND	.84	.71	.49	493-3826-2-ND	1,000	214.00	RPS0G101MCN1GS
	220	176	0.12	30	2700	8 x 6.7	493-3827-1-ND	.98	.83	.57	493-3827-2-ND	1,000	250.00	RPS0G221MCN1GS
	330	264	0.12	30	2700	8 x 6.7	493-3828-1-ND	.99	.85	.58	493-3828-2-ND	1,000	254.00	RPS0G331MCN1GS
	470	376	0.12	22	3800	10 x 7.7	493-3829-1-ND	1.11	.93	.68	493-3829-2-ND	500	177.50	RPS0G471MCN1GS
	560	448	0.12	13	4500	8 x 11.7	493-3830-1-ND	1.16	.97	.72	493-3830-2-ND	500	185.50	RPS0G561MCN1GS
	560	448	0.12	9	5400	8 x 11.7	493-3831-1-ND	1.37	1.15	.84	493-3831-2-ND	500	218.50	RPA0G561MCN1GS
	1,200	960	0.12	12	5500	10 x 12.4	493-3832-1-ND	1.43	1.18	.95	493-3832-2-ND	400	228.80	RPS0G122MCN1GS
6.3	82	103	0.12	35	2200	6.3 x 5.7	493-3833-1-ND	1.03	.87	.55	493-3833-2-ND	1,000	219.00	RPS0J820MCN1GS
	150	189	0.12	30	2600	8 x 6.7	493-3834-1-ND	.98	.83	.57	493-3834-2-ND	1,000	250.00	RPS0J151MCN1GS
	180	227	0.12	30	2600	8 x 6.7	493-3835-1-ND	1.02	.87	.59	493-3835-2-ND	1,000	261.00	RPS0J181MCN1GS
	330	416	0.12	22	3600	10 x 7.7	493-3836-1-ND	1.25	1.05	.77	493-3836-2-ND	500	200.00	RPS0J331MCN1GS
	470	592	0.15	15	4300	8 x 11.7	493-3837-1-ND	1.25	1.05	.77	493-3837-2-ND	500	200.00	RPS0J471MCN1GS
	560	706	0.15	14	4400	8 x 11.7	493-3838-1-ND	1.29	1.09	.80	493-3838-2-ND	500	207.00	RPS0J561MCN1GS
	680	673	0.15	13	5200	10 x 12.4	493-3839-1-ND	1.56	1.28	1.03	493-3839-2-ND	400	248.80	RPS0J681MCN1GS
	820	775	0.15	12	5500	10 x 12.4	493-3840-1-ND	1.71	1.40	1.13	493-3840-2-ND	400	272.80	RPS0J821MCN1GS
	1,000	945	0.15	12	5500	10 x 12.4	493-3841-1-ND	1.56	1.28	1.03	493-3841-2-ND	400	248.80	RPS0J102MCN1GS
10	47	94	0.12	40	2100	6.3 x 5.7	493-3842-1-ND	.83	.70	.48	493-3842-2-ND	1,000	211.00	RPS1A470MCN1GS
	56	112	0.12	40	2100	6.3 x 5.7	493-3843-1-ND	.83	.70	.48	493-3843-2-ND	1,000	211.00	RPS1A560MCN1GS
	120	240	0.12	30	2600	8 x 6.7	493-3844-1-ND	1.05	.89	.61	493-3844-2-ND	1,000	269.00	RPS1A121MCN1GS
	270	540	0.12	25	3500	10 x 7.7	493-3845-1-ND	1.13	.95	.70	493-3845-2-ND	500	181.00	RPS1A271MCN1GS
	330	660	0.15	17	4000	8 x 11.7	493-3846-1-ND	1.24	1.04	.77	493-3846-2-ND	500	199.00	RPS1A331MCN1GS
	560	840	0.15	13	5300	10 x 12.4	493-3847-1-ND	1.41	1.16	.93	493-3847-2-ND	400	224.80	RPS1A561MCN1GS
16	39	125	0.10	45	2000	6.3 x 5.7	493-3848-1-ND	.86	.74	.50	493-3848-2-ND	1,000	221.00	RPS1C390MCN1GS
	39	125	0.10	24	2500	6.3 x 5.7	493-3849-1-ND	.88	.75	.51	493-3849-2-ND	1,000	226.00	RPA1C390MCN1GS
	56	179	0.10	40	2300	8 x 6.7	493-3850-1-ND	.98	.84	.57	493-3850-2-ND	1,000	251.00	RPS1C560MCN1GS
	82	262	0.10	40	2300	8 x 6.7	493-3851-1-ND	1.04	.87	.64	493-3851-2-ND	1,000	287.00	RPS1C820MCN1GS
	100	320	0.10	30	3200	10 x 7.7	493-3852-1-ND	1.30	1.09	.80	493-3852-2-ND	500	208.00	RPS1C101MCN1GS
	150	480	0.10	30	3200	10 x 7.7	493-3853-1-ND	1.30	1.09	.80	493-3853-2-ND	500	208.00	RPS1C151MCN1GS
	180	576	0.12	20	3700	8 x 11.7	493-3854-1-ND	1.33	1.12	.82	493-3854-2-ND	500	213.50	RPS1C181MCN1GS
	220	704	0.12	20	3700	8 x 11.7	493-3855-1-ND	1.33	1.12	.82	493-3855-2-ND	500	213.50	RPS1C221MCN1GS
	330	792	0.12	16	4800	10 x 12.4	493-3856-1-ND	2.09	1.72	1.38	493-3856-2-ND	400	334.40	RPS1C331MCN1GS

NEW! NE Series Aluminum
Polymer Electrolytic Capacitors

RoHS COMPLIANT

Size	Dimensions — mm		
øD x L	**ød**	**P**	**a**
5 x 10	0.5	2.0	1.0
6.3 x 10	0.5	2.5	1.0
8 x 6	0.6	3.5	1.0
8 x 9	0.6	3.5	1.0
8 x 11.5	0.6	3.5	1.5

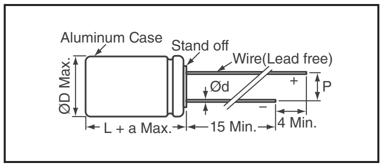

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability
Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	680	500	0.10	8	4900	8 x 6	493-3810-1-ND	.94	.80	.50	493-3810-2-ND	1,000	200.60	RNE0E681MDN1PX
6.3	1,200	1512	0.08	10	5700	8 x 9	493-3811-1-ND	1.09	.93	.63	493-3811-2-ND	1,000	280.00	RNE0J122MDN1PX
10	220	440	0.08	30	2500	6.3 x 10	493-3812-1-ND	.86	.73	.46	493-3812-2-ND	2,000	172.80/M	RNE1A221MDS1PX
16	100	320	0.08	35	2300	5 x 10	493-3813-1-ND	.79	.67	.42	493-3813-2-ND	2,000	158.40/M	RNE1C101MDS1PX
	470	1504	0.08	12	5000	8 x 11.5	493-3814-1-ND	1.05	.88	.65	493-3814-2-ND	1,000	289.85	RNE1C471MDN1PX

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! HT Series Aluminum Polymer Electrolytic Capacitors

RoHS COMPLIANT

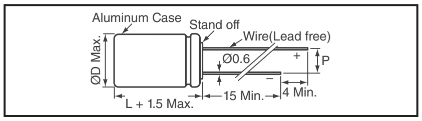

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Guaranteed at 125° and high reliability **Applications:** • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply **Specifications:** • Operating Temperature Range: -55°C ~ 125°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)		Case Size øDxL(mm)	Dimension P (mm)	Digi-Key Part No.	Price Each			Nichicon Part No.
					105 °C or less	105 °C ~125°C				1	10	100	
6.3	680	857	0.12	12	5450	1740	10 x 12.5	5.0	493-3734-ND	.82	.61	.42	RHT0J681MDN1
	820	1033	0.12	12	5450	1740	10 x 12.5	5.0	493-3735-ND	.82	.61	.42	RHT0J821MDN1
10	220	440	0.12	17	3950	1260	8 x 11.5	3.5	493-3736-ND	.65	.48	.33	RHT1A221MDN1
	330	660	0.12	17	3950	1260	8 x 11.5	3.5	493-3737-ND	.82	.61	.42	RHT1A331MDN1
	560	1120	0.12	13	5250	1680	10 x 12.5	5.0	493-3738-ND	1.03	.79	.57	RHT1A561MDN1
16	330	1056	0.12	16	4750	1520	10 x 12.5	5.0	493-3739-ND	1.02	.81	.61	RHT1C331MDN1
20	150	600	0.12	20	4350	1390	10 x 12.5	5.0	493-3740-ND	.99	.76	.54	RHT1D151MDN1

NEW! R5 Series Aluminum Polymer Electrolytic Capacitors

RoHS COMPLIANT

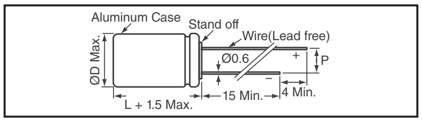

Features: • By using Functional Polymer cathode, Frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability **Applications:** • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL(mm)	Dimension P (mm)	Digi-Key Part No.	Price Each			Nichicon Part No.
									1	10	100	
2.5	560	350	0.15	5	6630	8 x 11.5	3.5	493-3687-ND	.70	.50	.33	RR50E561MDN1
	680	425	0.15	5	6630	8 x 11.5	3.5	493-3688-ND	.70	.50	.33	RR50E681MDN1
	820	513	0.15	5	6630	8 x 11.5	3.5	493-3689-ND	.62	.46	.32	RR50E821MDN1
	1,000	625	0.15	5	6630	8 x 11.5	3.5	493-3690-ND	.62	.46	.32	RR50E102MDN1
	1,500	938	0.15	5	7220	10 x 12.5	5.0	493-3691-ND	.69	.52	.36	RR50E152MDN1
4.0	560	560	0.15	5	6630	8 x 11.5	3.5	493-3692-ND	.65	.46	.31	RR50G561MDN1
	820	820	0.15	5	7220	10 x 12.5	5.0	493-3693-ND	.68	.51	.35	RR50G821MDN1
	1,200	1200	0.15	5	7220	10 x 12.5	5.0	493-3694-ND	.69	.52	.36	RR50G122MDN1
6.3	390	614	0.15	5	6630	8 x 11.5	3.5	493-3695-ND	.63	.45	.30	RR50J391MDN1
	680	1071	0.15	5	7220	10 x 12.5	5.0	493-3696-ND	.69	.52	.36	RR50J681MDN1
	820	1292	0.15	5	7220	10 x 12.5	5.0	493-3697-ND	.69	.52	.36	RR50J821MDN1

NEW! R7 Series Aluminum Polymer Electrolytic Capacitors

RoHS COMPLIANT

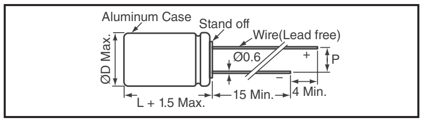

Features: • By using Functional Polymer cathode, Frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability **Applications:** • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply **Specifications:** • Operating Temperature Range: -55°C ~ 125°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL(mm)	Dimension P (mm)	Digi-Key Part No.	Price Each			Nichicon Part No.
									1	10	100	
2.5	680	425	0.08	7	5600	8 x 11.5	3.5	493-3698-ND	.60	.43	.29	RR70E681MDN1
	820	513	0.08	7	5600	8 x 11.5	3.5	493-3699-ND	.64	.46	.30	RR70E821MDN1
	1,500	938	0.08	7	6100	10 x 12.5	5.0	493-3700-ND	.70	.52	.36	RR70E152MDN1
4.0	560	224	0.08	7	5600	8 x 11.5	3.5	493-3701-ND	.63	.45	.30	RR70G561MDN1
	820	328	0.08	7	6100	10 x 12.5	5.0	493-3702-ND	.74	.55	.38	RR70G821MDN1
	1,200	960	0.15	7	6100	10 x 12.5	5.0	493-3703-ND	.68	.51	.35	RR70G122MDN1
6.3	150	47	0.07	7	5600	8 x 11.5	3.5	493-3704-ND	.60	.43	.28	RR70J151MDN1
	220	69	0.07	7	5600	8 x 11.5	3.5	493-3705-ND	.61	.44	.29	RR70J221MDN1
	330	104	0.07	7	6100	10 x 12.5	5.0	493-3706-ND	.67	.50	.34	RR70J331MDN1
	390	246	0.08	7	5600	8 x 11.5	3.5	493-3707-ND	.62	.44	.29	RR70J391MDN1
	680	428	0.08	7	6100	10 x 12.5	5.0	493-3708-ND	.65	.48	.33	RR70J681MDN1
	820	517	0.12	7	6100	10 x 12.5	5.0	493-3709-ND	.67	.49	.34	RR70J821MDN1
	1,000	630	0.12	7	6100	10 x 12.5	5.0	493-3710-ND	.72	.54	.37	RR70J102MDN1
10	100	50	0.07	7	5600	8 x 11.5	3.5	493-3711-ND	.62	.44	.29	RR71A101MDN1
	220	110	0.07	7	6100	10 x 12.5	5.0	493-3712-ND	.64	.47	.33	RR71A221MDN1
	470	470	0.08	7	6100	10 x 12.5	5.0	493-3713-ND	.72	.54	.37	RR71A471MDN1
	680	1360	0.10	7	6100	10 x 12.5	5.0	493-3714-ND	.73	.54	.37	RR71A681MDN1
16	68	54	0.06	7	5600	8 x 11.5	3.5	493-3715-ND	.64	.46	.30	RR71C680MDN1
	100	80	0.06	7	5600	8 x 11.5	3.5	493-3716-ND	.64	.46	.30	RR71C101MDN1
	150	120	0.06	7	6100	10 x 12.5	5.0	493-3717-ND	.64	.48	.33	RR71C151MDN1
	330	792	0.08	7	6100	10 x 12.5	5.0	493-3718-ND	.81	.60	.41	RR71C331MDN1

NEW! S8 Series Aluminum Polymer Electrolytic Capacitors

RoHS COMPLIANT

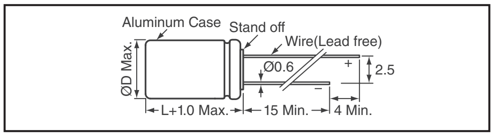

Features: • By using Functional Polymer cathode, Frequency and Temperature characteristics are greatly improved • Low ESR and Low ESL at a high frequency range • High ripple current capability • Long life and high reliability **Applications:** • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU (VRM) • Miniature high Power Supply **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL(mm)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Box Pricing 2,000	Nichicon Part No.
								1	10	100			
2.5	330	500	0.10	7	5600	6.3 x 8	493-4028-1-ND	.59	.42	.28	493-4028-3-ND	171.70/M	RS80E331MDN1JT
	330	500	0.10	7	5600	6.3 x 8	493-4029-1-ND	.70	.52	.36	493-4029-3-ND	235.20/M	RS80E331MDNASQJT
	470	500	0.10	7	5600	6.3 x 8	493-4030-1-ND	.61	.44	.29	493-4030-3-ND	178.50/M	RS80E471MDN1JT
	470	500	0.10	7	5600	6.3 x 8	493-4031-1-ND	.74	.55	.38	493-4031-3-ND	249.60/M	RS80E471MDNASQJT
	560	500	0.10	7	5600	6.3 x 8	493-4032-1-ND	.61	.44	.29	493-4032-3-ND	180.20/M	RS80E561MDN1JT
	560	500	0.10	7	5600	6.3 x 8	493-4033-1-ND	.75	.56	.38	493-4033-3-ND	252.80/M	RS80E561MDNASQJT
	820	512	0.10	7	5600	6.3 x 8	493-4034-1-ND	.66	.47	.31	493-4034-3-ND	193.80/M	RS80E821MDN1JT
	820	512	0.10	7	5600	6.3 x 8	493-4035-1-ND	.75	.56	.38	493-4035-3-ND	252.80/M	RS80E821MDNASQJT
4.0	560	560	0.10	7	5000	6.3 x 8	493-4036-1-ND	.63	.45	.30	493-4036-3-ND	183.60/M	RS80G561MDN1JT
	560	560	0.10	7	5000	6.3 x 8	493-4037-1-ND	.75	.56	.38	493-4037-3-ND	252.80/M	RS80G561MDNASQJT
6.3	330	519	0.10	8	5000	6.3 x 8	493-4038-1-ND	.59	.42	.28	493-4038-3-ND	173.50/M	RS80J331MDN1JT
	330	519	0.10	8	5000	6.3 x 8	493-4039-1-ND	.70	.52	.36	493-4039-3-ND	235.20/M	RS80J331MDNASQJT
	470	740	0.10	8	5000	6.3 x 8	493-4040-1-ND	.63	.45	.30	493-4040-3-ND	183.60/M	RS80J471MDN1JT
	470	740	0.10	8	5000	6.3 x 8	493-4041-1-ND	.74	.55	.38	493-4041-3-ND	249.60/M	RS80J471MDNASQJT
	560	882	0.10	8	5000	6.3 x 8	493-4042-1-ND	.64	.46	.30	493-4042-3-ND	187.00/M	RS80J561MDN1JT
	560	882	0.10	8	5000	6.3 x 8	493-4043-1-ND	.76	.57	.39	493-4043-3-ND	257.60/M	RS80J561MDNASQJT

nichicon

NEW! FS Series Aluminum Polymer Electrolytic Capacitors

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability

Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% • Leakage Current not to exceed the initial specified value

Size	Dimensions — mm				
øD x L	W	H	C	P	R
4 x 5.2	4.3	4.3	5.1	1.0	0.5 ~ 0.9
5 x 5.7	5.3	5.3	5.9	1.4	0.5 ~ 0.9

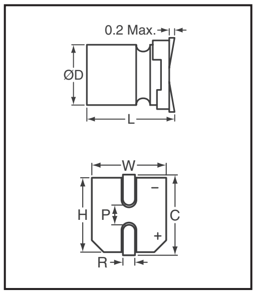

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Price	Nichicon Part No.
2.5	180	300	0.12	21	2670	5 x 5.7	493-3676-1-ND	.98	.83	.52	493-3676-2-ND	1,000	209.00	RFS0E181MCN1GS
4.0	100	300	0.12	22	2610	5 x 5.7	493-3677-1-ND	.98	.83	.52	493-3677-2-ND	1,000	209.00	RFS0G101MCN1GS
	150	300	0.12	22	2610	5 x 5.7	493-3678-1-ND	.98	.83	.52	493-3678-2-ND	1,000	209.00	RFS0G151MCN1GS
6.3	47	300	0.12	30	2000	5 x 5.7	493-3679-1-ND	.94	.80	.50	493-3679-2-ND	1,000	201.00	RFS0J470MCN1GS
	100	300	0.12	24	2500	5 x 5.7	493-3680-1-ND	.94	.80	.50	493-3680-2-ND	1,000	201.00	RFS0J101MCN1GS
	120	300	0.12	24	2500	5 x 5.7	493-3681-1-ND	1.00	.84	.53	493-3681-2-ND	1,000	213.00	RFS0J121MCN1GS
10	10	100	0.12	220	700	4 x 5.2	493-3682-1-ND	.92	.78	.49	493-3682-2-ND	2,000	184.00/M	RFS1A100MCN1GB
	68	300	0.12	30	2000	5 x 5.7	493-3683-1-ND	1.00	.84	.53	493-3683-2-ND	1,000	213.00	RFS1A680MCN1GS

NEW! E5 Series Aluminum Polymer Electrolytic Capacitors

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability
Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the value specified

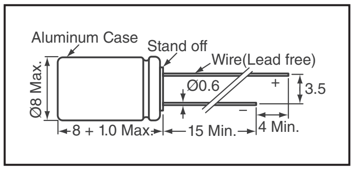

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2.5	560	500	0.10	5	6300	493-3684-ND	.60	.43	.28	RE50E561MDN1
	820	513	0.10	5	6300	493-3685-ND	.64	.46	.30	RE50E821MDN1
4.0	560	560	0.10	5	6300	493-3686-ND	.64	.46	.30	RE50G561MDN1

NEW! HS and HA Series Aluminum Polymer Electrolytic Capacitors

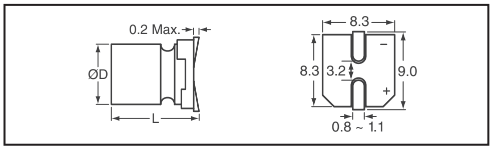

Features: • By using Functional Polymer cathode, frequency and temperature characteristics are greatly improved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability
Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU(VRM) • Miniature high Power Supply
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the initial specified value

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL(mm)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Price	Nichicon Part No.
2.5	680	700	0.12	8	4500	8 x 6.7	493-3758-1-ND	1.04	.89	.61	493-3758-2-ND	1,000	221.00	RHA0E681MCN1GS
	820	700	0.12	9	5400	8 x 11.7	493-3759-1-ND	1.28	1.07	.79	493-3759-2-ND	500	169.00	RHS0E821MCN1GS
	820	700	0.12	8	4500	8 x 6.7	493-3760-1-ND	1.09	.93	.63	493-3760-2-ND	1,000	230.00	RHA0E821MCN1GS
	1,000	750	0.12	8	4500	8 x 7.7	493-3761-1-ND	1.10	.93	.68	493-3761-2-ND	900	246.60	RHA0E102MCN1GS
	1,500	1125	0.12	9	5400	8 x 11.7	493-3762-1-ND	1.26	1.04	.84	493-3762-2-ND	500	187.00	RHS0E152MCN1GS
4.0	560	700	0.12	16	3200	8 x 6.7	493-3763-1-ND	1.07	.91	.62	493-3763-2-ND	1,000	227.00	RHS0G561MCN1GS
	560	700	0.12	8	4500	8 x 6.7	493-3764-1-ND	1.09	.93	.63	493-3764-2-ND	1,000	232.00	RHA0G561MCN1GS
	680	816	0.12	8	4500	8 x 7.7	493-3765-1-ND	1.04	.87	.64	493-3765-2-ND	900	232.20	RHA0G681MCN1GS
	1,200	1440	0.12	9	5400	8 x 11.7	493-3766-1-ND	1.28	1.05	.85	493-3766-2-ND	500	190.00	RHS0G122MCN1GS
	1,500	1800	0.12	12	5400	8 x 11.7	493-3767-1-ND	1.41	1.16	.94	493-3767-2-ND	500	209.00	RHS0G152MCN1GS
6.3	330	700	0.12	9	4500	8 x 6.7	493-3768-1-ND	1.04	.89	.61	493-3768-2-ND	1,000	221.00	RHA0J331MCN1GS
	390	737	0.12	18	3200	8 x 6.7	493-3769-1-ND	1.04	.88	.60	493-3769-2-ND	1,000	219.00	RHS0J391MCN1GS
	390	737	0.12	9	4500	8 x 6.7	493-3770-1-ND	1.09	.93	.63	493-3770-2-ND	1,000	232.00	RHA0J391MCN1GS
	470	888	0.12	9	4500	8 x 6.7	493-3771-1-ND	1.09	.93	.63	493-3771-2-ND	1,000	232.00	RHA0J471MCN1GS
	560	1058	0.12	9	4500	8 x 7.7	493-3772-1-ND	1.04	.87	.64	493-3772-2-ND	900	232.20	RHA0J561MCN1GS
	820	1550	0.12	10	5150	8 x 11.7	493-3773-1-ND	.97	.74	.53	493-3773-2-ND	500	168.50	RHS0J821MCN1GS
	1,000	1890	0.12	10	5150	8 x 11.7	493-3774-1-ND	1.26	1.03	.83	493-3774-2-ND	500	186.50	RHS0J102MCN1GS
10	150	700	0.12	25	3000	8 x 6.7	493-3775-1-ND	1.11	.94	.64	493-3775-2-ND	1,000	234.00	RHS1A151MCN1GS
16	150	700	0.12	22	3220	8 x 6.7	493-3776-1-ND	1.05	.88	.65	493-3776-2-ND	1,000	245.00	RHA1C151MCN1GS

NEW! L8 Series Aluminum Polymer Electrolytic Capacitors

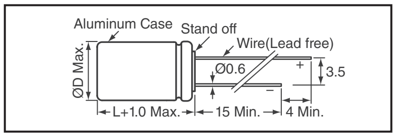

Features: • By using Functional Polymer cathode, Frequency and Temperature characteristics are greatly inproved • Low ESR at a high frequency range • High ripple current capability • Long life and high reliability

Applications: • Switching Power Supply and DC/DC Converter • Back up Power Supplies of CPU (VRM) • Miniature high Power Supply

Specifications: • Operating Temperature Range: -55- ~ 105°C • Capacitance Tolerance: ± 20% • Leakage Current not to exceed the the value specified

Rated Voltage	Rated Capacitance (µF, 120Hz)	Leakage Current (µA, 2min.)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size øDxL(mm)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Box Pricing 1,000	Nichicon Part No.
2.5	560	500	0.12	6	6100	8 x 8	493-4008-1-ND	.66	.47	.31	493-4008-3-ND	192.10	RL80E561MDN1KX
	560	500	0.12	6	6100	8 x 8	493-4009-1-ND	.66	.49	.34	493-4009-3-ND	220.80	RL80E561MDNASQKX
	820	513	0.12	6	6100	8 x 8	493-4010-1-ND	.66	.47	.31	493-4010-3-ND	192.10	RL80E821MDN1KX
	820	513	0.12	6	6100	8 x 8	493-4011-1-ND	.69	.52	.36	493-4011-3-ND	233.60	RL80E821MDNASQKX
	1000	625	0.12	6	6100	8 x 8	493-4012-1-ND	.69	.52	.36	493-4012-3-ND	233.60	RL80E102MDN1KX
	1200	750	0.12	7	6100	8 x 8	493-4013-1-ND	.69	.52	.36	493-4013-3-ND	233.60	RL80E122MDN1KX
	1500	938	0.12	7	6100	8 x 8	493-4014-1-ND	.73	.54	.37	493-4014-3-ND	246.40	RL80E152MDN1KX
4.0	560	560	0.12	6	6100	8 x 8	493-4015-1-ND	.64	.46	.30	493-4015-3-ND	188.70	RL80G561MDN1KX
	560	560	0.12	6	6100	8 x 8	493-4016-1-ND	.70	.52	.36	493-4016-3-ND	235.20	RL80G561MDNASQKX
	820	820	0.12	6	6100	8 x 8	493-4017-1-ND	.70	.50	.33	493-4017-3-ND	205.70	RL80G821MDN1KX
6.3	470	592	0.12	8	5700	8 x 8	493-4018-1-ND	.63	.45	.30	493-4018-3-ND	183.60	RL80J471MDN1KX
	470	592	0.12	8	5700	8 x 8	493-4019-1-ND	.70	.52	.36	493-4019-3-ND	235.20	RL80J471MDNASQKX
	560	706	0.12	8	5700	8 x 8	493-4020-1-ND	.67	.48	.32	493-4020-3-ND	197.20	RL80J561MDN1KX
	560	706	0.12	8	5700	8 x 8	493-4021-1-ND	.76	.57	.39	493-4021-3-ND	257.60	RL80J561MDNASQKX
	680	857	0.12	8	5700	8 x 8	493-4022-1-ND	.67	.48	.32	493-4022-3-ND	197.20	RL80J681MDN1KX
	820	1033	0.12	8	5700	8 x 8	493-4023-1-ND	.73	.52	.35	493-4023-3-ND	214.20	RL80J821MDN1KX
	1000	1260	0.12	9	5700	8 x 8	493-4024-1-ND	.72	.53	.37	493-4024-3-ND	241.92	RL80J102MDN1KX
16	180	576	0.12	12	5000	8 x 8	493-4025-1-ND	.63	.47	.32	493-4025-3-ND	212.80	RL81C181MDN1KX
	220	704	0.12	12	5000	8 x 8	493-4026-1-ND	.69	.51	.35	493-4026-3-ND	232.00	RL81C221MDN1KX
	270	864	0.12	12	5000	8 x 8	493-4027-1-ND	.77	.57	.39	493-4027-3-ND	259.20	RL81C271MDN1KX

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

nichicon

LG Series Aluminum Electrolytic Capacitors

FEATURES:

- Higher capacitance, lower ESR • High ripple current • Load life of 2,000 hours @ 105°C • Radial lead type: Lead free flow soldering condition correspondence • Adapted to the RoHS directive
- **Marking:** Navy blue print on the case top

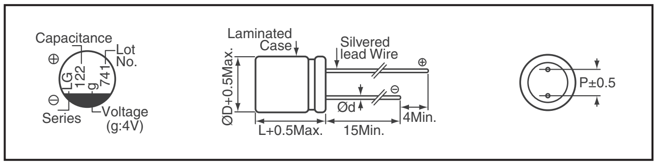

Size	Dimensions — mm øD	L	P	ød
8.0 x 9.0	8.0	8.5	3.5	0.6
8.0 x 12.0	8.0	11.5	3.5	0.6
10.0 x 13.0	10.0	12.5	5.0	0.6

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Capacitance (µF)	tan δ	Leakage Current (µA)	Rated Ripple Current 100kHz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2.5	1,800	0.08	900	6,000	8.0 x 9.0	493-3101-ND	1.86	1.47	1.11	PLG0E182MCO1
	2,200	0.08	1,100	6,700	8.0 x 12.0	493-3102-ND	1.73	1.40	1.07	PLG0E222MDO1
	3,900	0.08	1,950	7,000	10.0 x 13.0	493-3103-ND	2.22	1.80	1.38	PLG0E392MDO1
4	1,200	0.08	960	5,900	8.0 x 9.0	493-3104-ND	1.86	1.47	1.11	PLG0G122MCO1
	1,800	0.08	1,440	6,500	8.0 x 12.0	493-3105-ND	1.73	1.40	1.07	PLG0G182MDO1
	2,700	0.08	2,160	6,900	10.0 x 13.0	493-3106-ND	1.98	1.61	1.23	PLG0G272MDO1
6.3	820	0.08	1,033	5,700	8.0 x 9.0	493-3107-ND	1.86	1.47	1.11	PLG0J821MCO1
	1,200	0.08	1,512	6,100	8.0 x 12.0	493-3108-ND	1.73	1.40	1.07	PLG0J122MDO1
	1,800	0.08	2,268	6,600	10.0 x 13.0	493-3109-ND	1.98	1.61	1.23	PLG0J182MDO1
10	560	0.08	1,120	5,100	8.0 x 9.0	493-3110-ND	1.86	1.47	1.11	PLG1A561MCO1
	820	0.08	1,640	5,800	8.0 x 12.0	493-3111-ND	1.73	1.40	1.07	PLG1A821MDO1
	1,200	0.08	2,400	6,200	10.0 x 13.0	493-3112-ND	1.98	1.61	1.23	PLG1A122MDO1
16	330	0.08	1,056	4,700	8.0 x 9.0	493-3113-ND	1.86	1.47	1.11	PLG1C331MCO1
	470	0.08	1,504	5,400	8.0 x 12.0	493-3114-ND	1.73	1.40	1.07	PLG1C471MDO1
	820	0.08	2,624	5,600	10.0 x 13.0	493-3115-ND	1.98	1.61	1.23	PLG1C821MDO1

CG Series Aluminum Electrolytic Capacitors (SMT)

FEATURES:

- Higher capacitance, low ESR • High ripple current • Load life of 2,000 hours @ 105°C • SMD type: Lead free flow soldering condition at 260°C peak correspondence • Adapted to the RoHS directive
- **Marking:** Navy blue print on the case top

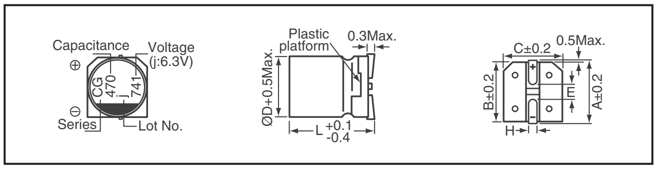

Size	Dimensions — mm øD	L	A	B	C	E	H
5.0 x 6.0	5.0	5.9	6.0	5.3	5.3	1.2	0.5 ~ 0.8
6.3 x 6.0	6.3	5.9	7.3	6.6	6.6	2.1	0.5 ~ 0.8
8.0 x 7.0	8.0	6.9	9.0	8.3	8.3	3.2	0.8 ~ 1.1
10.0 x 8.0	10.0	7.9	11.0	10.3	10.3	4.6	0.8 ~ 1.1
10.0 x 10.0	10.0	9.9	11.0	10.3	10.3	4.6	0.8 ~ 1.1
10.0 x 12.7	10.0	12.6	11.0	10.3	10.3	4.6	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @100kHz/105°C (mA rms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
							1	10	100		Qty.	Pricing	
2.5	220	0.12	110	2,100	5.0 x 6.0	493-3069-1-ND	1.86	1.53	1.23	493-3069-2-ND	1,000	557.00	PCG0E221MCL1GS
	470	0.12	235	2,900	6.3 x 6.0	493-3070-1-ND	1.94	1.60	1.29	493-3070-2-ND	1,000	582.00	PCG0E471MCL1GS
	2,700	0.12	1,350	4,700	10.0 x 10.0	493-3074-1-ND	2.26	1.87	1.65	493-3074-2-ND	500	440.00	PCG0E272MCL1GS
	3,300	0.12	1,650	5,500	10.0 x 12.7	493-3075-1-ND	2.43	2.02	1.78	493-3075-2-ND	400	426.80	PCG0E332MCL1GS
4	390	0.12	312	2,700	6.3 x 6.0	493-3077-1-ND	1.94	1.60	1.29	493-3077-2-ND	1,000	582.00	PCG0G391MCL1GS
	1,200	0.12	960	4,000	10.0 x 8.0	493-3079-1-ND	2.08	1.73	1.53	493-3079-2-ND	500	405.50	PCG0G122MCL1GS
	2,200	0.12	1,760	4,600	10.0 x 10.0	493-3080-1-ND	2.26	1.87	1.65	493-3080-2-ND	500	440.00	PCG0G222MCL1GS
	2,700	0.12	2,160	5,300	10.0 x 12.7	493-3081-1-ND	2.43	2.02	1.78	493-3081-2-ND	400	426.80	PCG0G272MCL1GS
6.3	150	0.12	189	1,800	5.0 x 6.0	493-3082-1-ND	1.86	1.53	1.23	493-3082-2-ND	1,000	557.00	PCG0J151MCL1GS
	270	0.12	340	2,600	6.3 x 6.0	493-3083-1-ND	1.94	1.60	1.29	493-3083-2-ND	1,000	582.00	PCG0J271MCL1GS
	330	0.12	416	2,700	6.3 x 6.0	493-3084-1-ND	1.94	1.60	1.29	493-3084-2-ND	1,000	582.00	PCG0J331MCL1GS
	470	0.12	592	3,100	8.0 x 7.0	493-3085-1-ND	2.30	1.89	1.52	493-3085-2-ND	1,000	689.00	PCG0J471MCL1GS
	1,000	0.12	1,260	3,800	10.0 x 8.0	493-3086-1-ND	2.08	1.73	1.53	493-3086-2-ND	500	405.50	PCG0J102MCL1GS
	1,800	0.12	2,268	4,400	10.0 x 10.0	493-3087-1-ND	2.26	1.87	1.65	493-3087-2-ND	500	440.00	PCG0J182MCL1GS
	2,200	0.12	2,772	5,000	10.0 x 12.7	493-3088-1-ND	2.43	2.02	1.78	493-3088-2-ND	400	426.80	PCG0J222MCL1GS
10	82	0.12	164	1,700	5.0 x 6.0	493-3089-1-ND	1.86	1.53	1.23	493-3089-2-ND	1,000	557.00	PCG1A820MCL1GS
	150	0.12	300	2,500	6.3 x 6.0	493-3090-1-ND	1.94	1.60	1.29	493-3090-2-ND	1,000	582.00	PCG1A151MCL1GS
	330	0.12	660	3,100	8.0 x 7.0	493-3091-1-ND	2.30	1.89	1.52	493-3091-2-ND	1,000	689.00	PCG1A331MCL1GS
	560	0.12	1,120	3,600	10.0 x 8.0	493-3092-1-ND	2.08	1.73	1.53	493-3092-2-ND	500	405.50	PCG1A561MCL1GS
	820	0.12	1,640	4,300	10.0 x 10.0	493-3093-1-ND	2.26	1.87	1.65	493-3093-2-ND	500	440.00	PCG1A821MCL1GS
	1,000	0.12	2,000	4,800	10.0 x 12.7	493-3094-1-ND	2.43	2.02	1.78	493-3094-2-ND	400	426.80	PCG1A102MCL1GS
16	47	0.12	150	1,500	5.0 x 6.0	493-3095-1-ND	1.86	1.53	1.23	493-3095-2-ND	1,000	557.00	PCG1C470MCL1GS
	82	0.12	262	2,300	6.3 x 6.0	493-3096-1-ND	1.94	1.60	1.29	493-3096-2-ND	1,000	582.00	PCG1C820MCL1GS
	150	0.12	480	2,800	8.0 x 7.0	493-3097-1-ND	2.30	1.89	1.52	493-3097-2-ND	1,000	689.00	PCG1C151MCL1GS
	270	0.12	864	3,300	10.0 x 8.0	493-3098-1-ND	2.08	1.73	1.53	493-3098-2-ND	500	405.50	PCG1C271MCL1GS
	470	0.12	1,504	3,700	10.0 x 10.0	493-3099-1-ND	2.26	1.87	1.65	493-3099-2-ND	500	440.00	PCG1C471MCL1GS
	680	0.12	2,176	4,100	10.0 x 12.7	493-3100-1-ND	2.43	2.02	1.78	493-3100-2-ND	400	426.80	PCG1C681MCL1GS

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

nichicon CJ Series Aluminum Electrolytic Capacitors (SMT)

Digi-Reel® RoHS COMPLIANT

FEATURES: • Higher capacitance, low ESR • High ripple current • Load life of 2,000 hours @ 105°C • SMD type: Lead free flow soldering condition at 260°C peak correspondence • Adapted to the RoHS directive

• **Marking:** Navy blue print on the case top

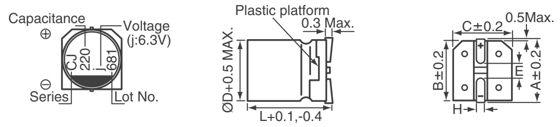

Size	Dimensions — mm øD	L	A	B	C	E	H
5.0 x 6.0	5.0	5.9	6.0	5.3	5.3	1.2	0.5 ~ 0.8
6.3 x 6.0	6.3	5.9	7.3	6.6	6.6	2.1	0.5 ~ 0.8
8.0 x 7.0	8.0	6.9	9.0	8.3	8.3	3.2	0.8 ~ 1.1
8.0 x 12.0	8.0	11.9	9.0	8.3	8.3	3.2	0.8 ~ 1.1
10.0 x 8.0	10.0	7.9	11.0	10.3	10.3	4.6	0.8 ~ 1.1
10.0 x 10.0	10.0	9.9	11.0	10.3	10.3	4.6	0.8 ~ 1.1
10.0 x 12.7	10.0	12.6	11.0	10.3	10.3	4.6	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @100kHz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	180	0.12	90	2,670	5.0 x 6.0	493-3020-1-ND	1.73	1.42	1.14	493-3020-2-ND	1,000	518.00	PCJ0E181MCL1GS
	390	0.12	195	3,400	6.3 x 6.0	493-3021-1-ND	1.77	1.45	1.17	493-3021-2-ND	1,000	530.00	PCJ0E391MCL1GS
	560	0.12	280	4,100	8.0 x 7.0	493-3022-1-ND	2.19	1.80	1.45	493-3022-2-ND	1,000	656.00	PCJ0E561MCL1GS
	820	0.12	410	5,400	8.0 x 12.0	493-3024-1-ND	2.41	1.98	1.60	493-3024-2-ND	400	385.60	PCJ0E821MCL1GS
	1,500	0.12	750	5,400	8.0 x 12.0	493-3026-1-ND	2.41	1.98	1.60	493-3026-2-ND	400	385.60	PCJ0E152MCL1GS
4	330	0.12	264	3,300	6.3 x 6.0	493-3030-1-ND	1.77	1.45	1.17	493-3030-2-ND	1,000	530.00	PCJ0G331MCL1GS
	560	0.12	448	4,000	8.0 x 7.0	493-3031-1-ND	2.19	1.80	1.45	493-3031-2-ND	1,000	656.00	PCJ0G561MCL1GS
	560	0.12	448	5,200	8.0 x 12.0	493-3032-1-ND	2.19	1.80	1.45	493-3032-2-ND	400	349.60	PCJ0G561MCL9GS
	1,000	0.12	800	4,300	10.0 x 8.0	493-3033-1-ND	2.41	1.98	1.60	493-3033-2-ND	500	409.50	PCJ0G102MCL1GS
	1,200	0.12	960	5,400	8.0 x 12.0	493-3034-1-ND	2.41	1.98	1.60	493-3034-2-ND	400	385.60	PCJ0G122MCL1GS
	1,500	0.12	1,200	5,200	8.0 x 12.0	493-3035-1-ND	2.41	1.98	1.60	493-3035-2-ND	400	385.60	PCJ0G152MCL4GS
	1,500	0.12	1,200	5,500	10.0 x 10.0	493-3036-1-ND	2.41	1.98	1.60	493-3036-2-ND	500	409.50	PCJ0G152MCL1GS
	2,200	0.12	1,760	5,700	10.0 x 12.7	493-3038-1-ND	2.12	1.77	1.56	—	—	—	PCJ0G222MCL1GS
6.3	100	0.12	126	2,500	5.0 x 6.0	493-3039-1-ND	1.73	1.42	1.14	493-3039-2-ND	1,000	518.00	PCJ0J101MCL1GS
	120	0.12	151	2,500	5.0 x 6.0	493-3040-1-ND	1.73	1.42	1.14	493-3040-2-ND	1,000	518.00	PCJ0J121MCL1GS
	220	0.12	277	3,200	6.3 x 6.0	493-3041-1-ND	1.77	1.45	1.17	493-3041-2-ND	1,000	530.00	PCJ0J221MCL1GS
	390	0.12	491	3,950	8.0 x 7.0	493-3042-1-ND	2.19	1.80	1.45	493-3042-2-ND	1,000	656.00	PCJ0J391MCL1GS
	820	0.12	1,033	5,150	8.0 x 12.0	493-3043-1-ND	2.41	1.98	1.60	493-3043-2-ND	400	385.60	PCJ0J821MCL4GS
	820	0.12	1,033	4,500	10.0 x 8.0	493-3044-1-ND	2.41	1.98	1.60	493-3044-2-ND	500	409.50	PCJ0J821MCL1GS
	1,500	0.12	1,890	5,025	10.0 x 10.0	493-3045-1-ND	2.05	1.71	1.51	493-3045-2-ND	500	401.00	PCJ0J152MCL1GS
	1,800	0.12	2,268	5,200	10.0 x 12.7	493-3046-1-ND	2.12	1.77	1.56	493-3046-2-ND	400	372.80	PCJ0J182MCL1GS
10	68	0.12	136	2,310	5.0 x 6.0	493-3047-1-ND	1.73	1.42	1.14	493-3047-2-ND	1,000	518.00	PCJ1A680MCL1GS
	120	0.12	240	2,530	6.3 x 6.0	493-3048-1-ND	1.77	1.45	1.17	493-3048-2-ND	1,000	530.00	PCJ1A121MCL1GS
	270	0.12	540	3,220	8.0 x 7.0	493-3049-1-ND	2.19	1.80	1.45	493-3049-2-ND	1,000	656.00	PCJ1A271MCL1GS
	470	0.12	940	3,800	10.0 x 8.0	493-3050-1-ND	2.41	1.98	1.60	493-3050-2-ND	500	409.50	PCJ1A471MCL1GS
	680	0.12	1,360	4,820	10.0 x 10.0	493-3051-1-ND	2.05	1.71	1.51	493-3051-2-ND	500	401.00	PCJ1A681MCL1GS
16	39	0.12	124	2,070	5.0 x 6.0	493-3052-1-ND	1.73	1.42	1.14	493-3052-2-ND	1,000	518.00	PCJ1C390MCL1GS
	68	0.12	217	2,390	6.3 x 6.0	493-3053-1-ND	1.77	1.45	1.17	493-3053-2-ND	1,000	530.00	PCJ1C680MCL1GS
	120	0.12	384	3,010	8.0 x 7.0	493-3054-1-ND	2.19	1.80	1.45	493-3054-2-ND	1,000	656.00	PCJ1C121MCL1GS
	220	0.12	704	3,450	10.0 x 8.0	493-3055-1-ND	2.41	1.98	1.60	493-3055-2-ND	500	409.50	PCJ1C221MCL1GS
	330	0.12	1,056	4,350	10.0 x 10.0	493-3056-1-ND	2.05	1.71	1.51	493-3056-2-ND	500	401.00	PCJ1C331MCL1GS

F

NEW! CL Series Aluminum Electrolytic Capacitors (SMD)

Digi-Reel® RoHS COMPLIANT

FEATURES:

• Chip type, low impedance, temperature range up to +105°C • Applicable to automatic mounting machine fed with carrier tape

• **Marking:** Black print on the case top

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater

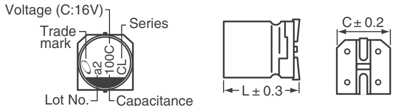

Size (mm)	Dimensions — mm L	C
4.0 x 5.8	5.8	4.3
5.0 x 5.8	5.8	5.3
6.3 x 5.8	5.8	6.6
6.3 x 7.7	7.7	6.6
8.0 x 6.2	6.2	8.3
8.0 x 10.0	10.0	8.3
10.0 x 7.7	7.7	10.3
10.0 x 10.0	10.0	10.3
10.0 x 13.5	13.5	10.3

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Current @100kHz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
6.3	22	0.26	160	4.0 x 5.8	493-3884-1-ND	.51	.41	.25	493-3884-2-ND	2,000	88.00/M	UCL0J220MCL1GS
	47	0.26	160	4.0 x 5.8	493-3885-1-ND	.58	.46	.28	493-3885-2-ND	2,000	99.00/M	UCL0J470MCL6GS
	47	0.26	240	5.0 x 5.8	493-3886-1-ND	.58	.46	.28	493-3886-2-ND	1,000	105.00	UCL0J470MCL1GS
	100	0.26	240	5.0 x 5.8	493-3887-1-ND	.68	.54	.33	493-3887-2-ND	1,000	124.00	UCL0J101MCL6GS
	100	0.26	300	6.3 x 5.8	493-3888-1-ND	.68	.54	.33	493-3888-2-ND	1,000	124.00	UCL0J101MCL1GS
	220	0.26	300	6.3 x 5.8	493-3889-1-ND	.68	.54	.33	493-3889-2-ND	1,000	124.00	UCL0J221MCL1GS
	330	0.26	600	6.3 x 7.7	493-3890-1-ND	.61	.51	.32	493-3890-2-ND	900	123.30	UCL0J331MCL1GS
	330	0.26	500	8.0 x 6.2	493-3891-1-ND	.61	.51	.32	493-3891-2-ND	1,000	129.00	UCL0J331MCL6GS
	470	0.26	850	8.0 x 10.0	493-3892-1-ND	.99	.84	.53	493-3892-2-ND	500	124.00	UCL0J471MNL1GS
	470	0.26	850	10.0 x 7.7	493-3893-1-ND	.99	.84	.53	493-3893-2-ND	500	124.00	UCL0J471MCL6GS
	1000	0.26	850	8.0 x 10.0	493-3894-1-ND	.99	.84	.53	493-3894-2-ND	500	124.00	UCL0J102MNL1GS
	1500	0.26	1190	10.0 x 10.0	493-3895-1-ND	.97	.83	.56	493-3895-2-ND	500	147.50	UCL0J152MNL1GS
	1800	0.26	850	10.0 x 10.0	493-3896-1-ND	.97	.83	.56	493-3896-2-ND	500	147.50	UCL0J182MNL1GS
	2200	0.26	1190	10.0 x 13.5	493-3897-1-ND	1.01	.85	.63	493-3897-2-ND	400	151.20	UCL0J222MNL1GS
10	22	0.19	160	4.0 x 5.8	493-3898-1-ND	.51	.41	.25	493-3898-2-ND	2,000	88.00/M	UCL1A220MCL1GS
	33	0.19	160	4.0 x 5.8	493-3899-1-ND	.58	.46	.28	493-3899-2-ND	2,000	99.00/M	UCL1A330MCL6GS
	33	0.19	240	5.0 x 5.8	493-3900-1-ND	.58	.46	.28	493-3900-2-ND	1,000	105.00	UCL1A330MCL1GS
	47	0.19	300	6.3 x 5.8	493-3901-1-ND	.68	.54	.33	493-3901-2-ND	1,000	124.00	UCL1A470MCL1GS
	150	0.19	300	6.3 x 5.8	493-3902-1-ND	.68	.54	.33	493-3902-2-ND	1,000	124.00	UCL1A151MCL1GS
	220	0.19	600	6.3 x 7.7	493-3903-1-ND	.61	.51	.32	493-3903-2-ND	900	123.30	UCL1A221MCL1GS
	220	0.19	500	8.0 x 6.2	493-3904-1-ND	.61	.51	.32	493-3904-2-ND	1,000	129.00	UCL1A221MCL6GS
	330	0.19	850	8.0 x 10.0	493-3905-1-ND	.99	.84	.53	493-3905-2-ND	500	124.00	UCL1A331MNL1GS
	330	0.19	850	10.0 x 7.7	493-3906-1-ND	.99	.84	.53	493-3906-2-ND	500	124.00	UCL1A331MNL6GS

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

nichicon NEW! CL Series Aluminum Electrolytic Capacitors (SMD) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Current @100kHz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
10	470	0.19	850	8.0 x 10.0	493-3907-1-ND	.99	.84	.53	493-3907-2-ND	500	124.00	UCL1A471MNL1GS
	470	0.19	850	10.0 x 7.7	493-3908-1-ND	.99	.84	.53	493-3908-2-ND	500	124.00	UCL1A471MCL6GS
	680	0.19	850	8.0 x 10.0	493-3909-1-ND	.99	.84	.53	493-3909-2-ND	500	124.00	UCL1A681MNL1GS
	1000	0.19	1,190	10.0 x 10.0	493-3910-1-ND	.97	.83	.56	493-3910-2-ND	500	147.50	UCL1A102MNL1GS
	1200	0.19	850	10.0 x 10.0	493-3911-1-ND	.97	.83	.56	493-3911-2-ND	500	147.50	UCL1A122MNL1GS
	1500	0.19	1,190	10.0 x 13.5	493-3912-1-ND	1.10	.94	.64	493-3912-2-ND	400	154.80	UCL1A152MNL1GS
16	10	0.16	160	4.0 x 5.8	493-3913-1-ND	.51	.41	.25	493-3913-2-ND	2,000	88.00/M	UCL1C100MCL1GS
	22	0.16	160	4.0 x 5.8	493-3914-1-ND	.58	.46	.28	493-3914-2-ND	2,000	99.00/M	UCL1C220MCL6GS
	22	0.16	240	5.0 x 5.8	493-3915-1-ND	.58	.46	.28	493-3915-2-ND	1,000	105.00	UCL1C220MCL1GS
	47	0.16	240	5.0 x 5.8	493-3916-1-ND	.68	.54	.33	493-3916-2-ND	1,000	124.00	UCL1C470MCL6GS
	47	0.16	300	6.3 x 5.8	493-3917-1-ND	.68	.54	.33	493-3917-2-ND	1,000	124.00	UCL1C470MCL1GS
	68	0.16	300	6.3 x 5.8	493-3918-1-ND	.68	.54	.33	493-3918-2-ND	1,000	124.00	UCL1C680MCL1GS
	100	0.16	300	6.3 x 5.8	493-3919-1-ND	.68	.54	.33	493-3919-2-ND	1,000	124.00	UCL1C101MCL1GS
	100	0.16	600	6.3 x 7.7	493-3920-1-ND	.68	.54	.33	493-3920-2-ND	900	117.00	UCL1C101MCL6GS
	150	0.16	600	6.3 x 7.7	493-3921-1-ND	.61	.51	.32	493-3921-2-ND	900	123.30	UCL1C151MCL1GS
	220	0.16	600	6.3 x 7.7	493-3922-1-ND	.61	.51	.32	493-3922-2-ND	900	123.30	UCL1C221MCL1GS
	220	0.16	500	8.0 x 6.2	493-3923-1-ND	.61	.51	.32	493-3923-2-ND	1,000	129.00	UCL1C221MCL6GS
	330	0.16	850	8.0 x 10.0	493-3924-1-ND	.99	.84	.53	493-3924-2-ND	500	124.00	UCL1C331MNL1GS
	330	0.16	850	10.0 x 7.7	493-3925-1-ND	.99	.84	.53	493-3925-2-ND	500	124.00	UCL1C331MCL6GS
	470	0.16	850	8.0 x 10.0	493-3926-1-ND	.99	.84	.53	493-3926-2-ND	500	124.00	UCL1C471MNL1GS
	470	0.16	850	10.0 x 7.7	493-3927-1-ND	.99	.84	.53	493-3927-2-ND	500	124.00	UCL1C471MCL6GS
	680	0.16	1,190	10.0 x 10.0	493-3928-1-ND	.97	.83	.56	493-3928-2-ND	500	147.50	UCL1C681MNL1GS
	820	0.16	850	10.0 x 10.0	493-3929-1-ND	.97	.83	.56	493-3929-2-ND	500	147.50	UCL1C821MNL1GS
	1000	0.16	1,190	10.0 x 13.5	493-3930-1-ND	1.10	.94	.64	493-3930-2-ND	400	154.80	UCL1C102MNL1GS
25	10	0.14	160	4.0 x 5.8	493-3931-1-ND	.51	.41	.25	493-3931-2-ND	2,000	88.00/M	UCL1E100MCL1GS
	22	0.14	240	5.0 x 5.8	493-3932-1-ND	.58	.46	.28	493-3932-2-ND	1,000	105.00	UCL1E220MCL1GS
	33	0.14	240	5.0 x 5.8	493-3933-1-ND	.68	.54	.33	493-3933-2-ND	1,000	124.00	UCL1E330MCL6GS
	33	0.14	300	6.3 x 5.8	493-3934-1-ND	.68	.54	.33	493-3934-2-ND	1,000	124.00	UCL1E330MCL1GS
	47	0.14	300	6.3 x 5.8	493-3935-1-ND	.68	.54	.33	493-3935-2-ND	1,000	124.00	UCL1E470MCL1GS
	68	0.14	300	6.3 x 5.8	493-3936-1-ND	.68	.54	.33	493-3936-2-ND	1,000	124.00	UCL1E680MCL1GS
	100	0.14	600	6.3 x 7.7	493-3937-1-ND	.61	.51	.32	493-3937-2-ND	900	123.30	UCL1E101MCL1GS
	100	0.14	500	8.0 x 6.2	493-3938-1-ND	.61	.51	.32	493-3938-2-ND	1,000	129.00	UCL1E101MCL6GS
	150	0.14	850	8.0 x 10.0	493-3939-1-ND	.99	.84	.53	493-3939-2-ND	500	124.00	UCL1E151MNL1GS
	150	0.14	850	10.0 x 7.7	493-3940-1-ND	.99	.84	.53	493-3940-2-ND	500	124.00	UCL1E151MCL6GS
	220	0.14	850	8.0 x 10.0	493-3941-1-ND	.99	.84	.53	493-3941-2-ND	500	124.00	UCL1E221MNL1GS
	220	0.14	850	10.0 x 7.7	493-3942-1-ND	.99	.84	.53	493-3942-2-ND	500	124.00	UCL1E221MCL6GS
	330	0.14	850	8.0 x 10.0	493-3943-1-ND	.99	.84	.53	493-3943-2-ND	500	124.00	UCL1E331MNL1GS
	470	0.14	1,190	10.0 x 10.0	493-3944-1-ND	.97	.83	.56	493-3944-2-ND	500	147.50	UCL1E471MNL1GS
	560	0.14	850	10.0 x 10.0	493-3945-1-ND	.97	.83	.56	493-3945-2-ND	500	147.50	UCL1E561MNL1GS
	680	0.14	1,190	10.0 x 13.5	493-3946-1-ND	1.07	.91	.62	493-3946-2-ND	400	150.40	UCL1E681MNL1GS
35	10	0.12	160	4.0 x 5.8	493-3947-1-ND	.51	.41	.25	493-3947-2-ND	2,000	88.00/M	UCL1V100MCL6GS
	10	0.12	240	5.0 x 5.8	493-3948-1-ND	.51	.41	.25	493-3948-2-ND	1,000	93.00	UCL1V100MCL1GS
	22	0.12	240	5.0 x 5.8	493-3949-1-ND	.58	.46	.28	493-3949-2-ND	1,000	105.00	UCL1V220MCL1GS
	33	0.12	300	6.3 x 5.8	493-3950-1-ND	.68	.54	.33	493-3950-2-ND	1,000	124.00	UCL1V330MCL1GS
	47	0.12	300	6.3 x 5.8	493-3951-1-ND	.68	.54	.33	493-3951-2-ND	1,000	124.00	UCL1V470MCL1GS
	68	0.12	600	6.3 x 7.7	493-3952-1-ND	.61	.51	.32	493-3952-2-ND	900	123.30	UCL1V680MCL1GS
	100	0.12	600	6.3 x 7.7	493-3953-1-ND	.99	.84	.53	493-3953-2-ND	900	200.70	UCL1V101MCL6GS
	100	0.12	850	8.0 x 10.0	493-3954-1-ND	.99	.84	.53	493-3954-2-ND	500	124.00	UCL1V101MNL1GS
	150	0.12	850	8.0 x 10.0	493-3955-1-ND	.99	.84	.53	493-3955-2-ND	500	124.00	UCL1V151MNL1GS
	150	0.12	850	10.0 x 7.7	493-3956-1-ND	.99	.84	.53	493-3956-2-ND	500	124.00	UCL1V151MCL6GS
	220	0.12	850	8.0 x 10.0	493-3957-1-ND	.99	.84	.53	493-3957-2-ND	500	124.00	UCL1V221MNL1GS
	220	0.12	850	10.0 x 7.7	493-3958-1-ND	.99	.84	.53	493-3958-2-ND	500	124.00	UCL1V221MCL6GS
	330	0.12	1,190	10.0 x 10.0	493-3959-1-ND	.97	.83	.56	493-3959-2-ND	500	147.50	UCL1V331MNL1GS
	390	0.12	850	10.0 x 10.0	493-3960-1-ND	.97	.83	.56	493-3960-2-ND	500	147.50	UCL1V391MNL1GS
	470	0.12	1,190	10.0 x 13.5	493-3961-1-ND	1.08	.92	.63	493-3961-2-ND	400	152.40	UCL1V471MNL1GS

NEW! CS Series Conductive Polymer Aluminum Solid Electrolytic Capacitors

FEATURES:

- Load life of 5000 hours at 105°C
- SMD type: Lead free reflow soldering condition at 260°C peak correspondence
- **Marking:** Navy blue print on the case top

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	Less than or equal to the specified value. After 2 minutes application of rated voltage at 20°C

Size (mm)	Dimensions — mm øD	L	A	B	C	E	H
5 x 6L	5.0	5.9	6.0	5.3	5.3	1.6	0.5 to 0.8
6.3 x 6L	6.3	5.9	7.3	6.6	6.6	2.1	0.5 to 0.8
8 x 7L	8.0	6.9	9.0	8.3	8.3	3.2	0.8 to 1.1

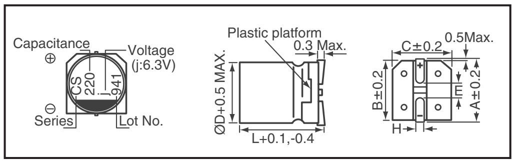

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @100kHz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
4	150	0.12	120	2,200	5 x 6	493-3962-1-ND	1.35	1.13	.83	493-3962-2-ND	1,000	372.00	PCS0G151MCL1GS
	330	0.12	264	2,800	6.3 x 6	493-3963-1-ND	1.30	1.07	.86	493-3963-2-ND	1,000	390.00	PCS0G331MCL1GS
	330	0.12	264	3,200	8 x 7	493-3964-1-ND	1.30	1.07	.86	493-3964-2-ND	1,000	390.00	PCS0G331MCL9GS
	560	0.12	448	3,600	8 x 7	493-3965-1-ND	1.45	1.19	.96	493-3965-2-ND	1,000	435.00	PCS0G561MCL1GS
6.3	47	0.12	100	1,600	5 x 6	493-3966-1-ND	1.35	1.13	.83	493-3966-2-ND	1,000	372.00	PCS0J470MCL1GS
	100	0.12	126	2,400	5 x 6	493-3967-1-ND	1.35	1.13	.83	493-3967-2-ND	1,000	372.00	PCS0J101MCL1GS
	100	0.12	126	2,800	6.3 x 6	493-3968-1-ND	1.35	1.13	.83	493-3968-2-ND	1,000	372.00	PCS0J101MCL9GS
	120	0.12	151	2,800	6.3 x 6	493-3969-1-ND	1.30	1.07	.86	493-3969-2-ND	1,000	390.00	PCS0J121MCL9GS
	220	0.12	277	2,800	6.3 x 6	493-3970-1-ND	1.30	1.07	.86	493-3970-2-ND	1,000	390.00	PCS0J221MCL1GS
	220	0.12	277	3,200	8 x 7	493-3971-1-ND	1.30	1.07	.86	493-3971-2-ND	1,000	390.00	PCS0J221MCL9GS
	390	0.12	491	3,200	8 x 7	493-3972-1-ND	1.50	1.23	.99	493-3972-2-ND	1,000	450.00	PCS0J391MCL1GS
10	33	0.12	100	1,300	5 x 6	493-3973-1-ND	1.35	1.13	.83	493-3973-2-ND	1,000	372.00	PCS1A330MCL1GS
	56	0.12	112	2,300	6.3 x 6	493-3974-1-ND	1.25	1.03	.83	493-3974-2-ND	1,000	375.00	PCS1A560MCL9GS
	68	0.12	136	2,100	5 x 6	493-3975-1-ND	1.35	1.13	.83	493-3975-2-ND	1,000	372.00	PCS1A680MCL1GS
	120	0.12	240	2,300	6.3 x 6	493-3976-1-ND	1.30	1.07	.86	493-3976-2-ND	1,000	390.00	PCS1A121MCL1GS
	150	0.12	300	2,600	8 x 7	493-3977-1-ND	1.40	1.15	.93	493-3977-2-ND	1,000	420.00	PCS1A151MCL9GS
	270	0.12	540	3,200	8 x 7	493-3978-1-ND	1.50	1.23	.99	493-3978-2-ND	1,000	450.00	PCS1A271MCL1GS
16	22	0.12	100	1,100	5 x 6	493-3979-1-ND	1.35	1.13	.83	493-3979-2-ND	1,000	372.00	PCS1C220MCL1GS
	39	0.12	125	2,000	5 x 6	493-3980-1-ND	1.35	1.13	.83	493-3980-2-ND	1,000	372.00	PCS1C390MCL1GS
	39	0.12	125	2,200	6.3 x 6	493-3981-1-ND	1.35	1.13	.83	493-3981-2-ND	1,000	372.00	PCS1C390MCL9GS
	68	0.12	218	2,200	6.3 x 6	493-3982-1-ND	1.30	1.07	.86	493-3982-2-ND	1,000	390.00	PCS1C680MCL1GS
	82	0.12	262	2,800	8 x 7	493-3983-1-ND	1.40	1.15	.93	493-3983-2-ND	1,000	420.00	PCS1C820MCL9GS
	120	0.12	384	2,800	8 x 7	493-3984-1-ND	1.45	1.19	.96	493-3984-2-ND	1,000	435.00	PCS1C121MCL1GS

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

nichicon *NEW!* CK Series Conductive Polymer Aluminum Solid Electrolytic Capacitors

FEATURES:

- Ultra low ESR, higher capacitance, high ripple current • Load life of 2,000 hours at 105°C • SMD type: Lead free reflow soldering condition at 260°C peak correspondence
- **Marking:** Navy blue print on the case top

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	Less than or equal to the specified value. After 2 minutes application of rated voltage at 20°C

Size (mm)	Dimensions — mm						
	øD	L	A	B	C	E	H
6.3 x 6L	6.3	5.9	7.3	6.6	6.6	2.1	0.5 to 0.8
8 x 7L	8.0	6.9	9.0	8.3	8.3	3.2	0.8 to 1.1
10 x 8L	10.0	7.9	11.0	10.3	10.3	4.6	0.8 to 1.1
10 x 10L	10.0	9.9	11.0	10.3	10.3	4.6	0.8 to 1.1

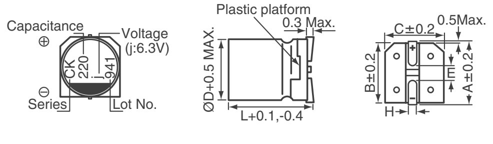

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @100kHz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	390	0.12	293	3,900	6.3 x 6	493-3985-1-ND	1.30	1.07	.86	493-3985-2-ND	1,000	390.00	PCK0E391MCO1GS
	560	0.12	420	4,500	8 x 7	493-3986-1-ND	1.40	1.15	.93	493-3986-2-ND	1,000	420.00	PCK0E561MCO1GS
	680	0.12	510	4,500	8 x 7	493-3987-1-ND	1.45	1.19	.96	493-3987-2-ND	1,000	435.00	PCK0E681MCO1GS
	1,200	0.12	900	5,000	10 x 8	493-3988-1-ND	2.15	1.77	1.42	493-3988-2-ND	500	365.50	PCK0E122MCO1GS
	2,200	0.12	1,650	6,000	10 x 10	493-3989-1-ND	2.45	2.01	1.62	493-3989-2-ND	500	416.50	PCK0E222MCO1GS
4	330	0.12	396	3,900	6.3 x 6	493-3990-1-ND	1.30	1.07	.86	493-3990-2-ND	1,000	390.00	PCK0G331MCO1GS
	470	0.12	564	4,500	8 x 7	493-3991-1-ND	1.40	1.15	.93	493-3991-2-ND	1,000	420.00	PCK0G471MCO1GS
	560	0.12	672	4,500	8 x 7	493-3992-1-ND	1.45	1.19	.96	493-3992-2-ND	1,000	435.00	PCK0G561MCO1GS
	1,000	0.12	1200	5,000	10 x 8	493-3993-1-ND	2.15	1.77	1.42	493-3993-2-ND	500	365.50	PCK0G102MCO1GS
	1,800	0.12	2160	6,000	10 x 10	493-3994-1-ND	2.05	1.70	1.50	493-3994-2-ND	500	400.00	PCK0G182MCO1GS
6.3	220	0.12	416	3,900	6.3 x 6	493-3995-1-ND	1.30	1.07	.86	493-3995-2-ND	1,000	390.00	PCK0J221MCO1GS
	330	0.12	624	4,500	8 x 7	493-3996-1-ND	1.40	1.15	.93	493-3996-2-ND	1,000	420.00	PCK0J331MCO1GS
	390	0.12	737	4,500	8 x 7	493-3997-1-ND	1.45	1.19	.96	493-3997-2-ND	1,000	435.00	PCK0J391MCO1GS
	820	0.12	1,550	5,000	10 x 8	493-3998-1-ND	2.15	1.77	1.42	493-3998-2-ND	500	365.50	PCK0J821MCO1GS
	1,500	0.12	2,835	6,000	10 x 10	493-3999-1-ND	2.45	2.01	1.62	493-3999-2-ND	500	416.50	PCK0J152MCO1GS

NEW! LV Series Conductive Polymer Aluminum Solid Electrolytic Capacitors

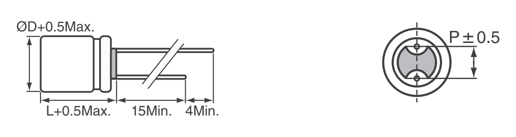

FEATURES:

- High voltage (to 63V), Low ESR, High ripple current • Long life of 3,000 hours at 105°C • Radial lead type: Lead free flow soldering condition correspondence
- **Marking:** Navy blue print on the case top

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current @100kHz/105°C (mArms)	Dimensions øD x L (mm)	Dimension P (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Box Qty.	Pricing	Nichicon Part No.
16	220	0.12	704	2,100	8.0 x 9.0	3.5	493-3857-1-ND	2.13	1.77	1.56	493-3857-3-ND	1,000	728.00	PLV1C221MCL1TD
	270	0.12	864	2,500	8.0 x 12.0	3.5	493-3858-1-ND	2.46	2.04	1.80	493-3858-3-ND	1,000	840.00	PLV1C271MDL1TD
	470	0.12	1,504	2,900	10.0 x 13.0	5.0	493-3859-1-ND	4.06	3.37	2.97	493-3859-3-ND	500	792.00	PLV1C471MDL1TD
20	150	0.12	600	2,000	8.0 x 9.0	3.5	493-3860-1-ND	2.45	2.01	1.62	493-3860-3-ND	1,000	735.00	PLV1D151MCL1TD
	220	0.12	880	2,400	8.0 x 12.0	3.5	493-3861-1-ND	2.58	2.15	1.89	493-3861-3-ND	1,000	882.00	PLV1D221MDL1TD
	330	0.12	1,320	2,800	10.0 x 13.0	5.0	493-3862-1-ND	3.90	3.23	2.85	493-3862-3-ND	500	760.00	PLV1D331MDL1TD
25	120	0.12	600	2,000	8.0 x 9.0	3.5	493-3863-1-ND	2.05	1.70	1.50	493-3863-3-ND	1,000	700.00	PLV1E121MCL1TD
	150	0.12	750	2,400	8.0 x 12.0	3.5	493-3864-1-ND	2.38	1.98	1.74	493-3864-3-ND	1,000	812.00	PLV1E151MDL1TD
	270	0.12	1,350	2,800	10.0 x 13.0	5.0	493-3865-1-ND	4.06	3.37	2.97	493-3865-3-ND	500	792.00	PLV1E271MDL1TD
35	56	0.12	392	1,900	8.0 x 9.0	3.5	493-3866-1-ND	2.15	1.77	1.42	493-3866-3-ND	1,000	645.00	PLV1V560MCL1TD
	82	0.12	574	2,300	8.0 x 12.0	3.5	493-3867-1-ND	2.21	1.84	1.62	493-3867-3-ND	1,000	756.00	PLV1V820MDL1TD
	150	0.12	1,050	2,700	10.0 x 13.0	5.0	493-3868-1-ND	3.85	3.20	2.82	493-3868-3-ND	500	752.00	PLV1V151MDL1TD
50	33	0.12	330	1,900	8.0 x 9.0	3.5	493-3869-1-ND	2.40	1.97	1.59	493-3869-3-ND	1,000	720.00	PLV1H330MCL1TD
	39	0.12	390	2,200	8.0 x 12.0	3.5	493-3870-1-ND	2.21	1.84	1.62	493-3870-3-ND	1,000	756.00	PLV1H390MDL1TD
	68	0.12	680	2,600	10.0 x 13.0	5.0	493-3871-1-ND	3.65	3.03	2.67	493-3871-3-ND	500	712.00	PLV1H680MDL1TD
63	22	0.12	277	1,800	8.0 x 9.0	3.5	493-3872-1-ND	2.30	1.89	1.52	493-3872-3-ND	1,000	690.00	PLV1J220MCL1TD
	27	0.12	340	2,100	8.0 x 12.0	3.5	493-3873-1-ND	2.17	1.81	1.59	493-3873-3-ND	1,000	742.00	PLV1J270MDL1TD
	47	0.12	592	2,600	10.0 x 13.0	5.0	493-3874-1-ND	3.57	2.96	2.61	493-3874-3-ND	500	696.00	PLV1J470MDL1TD

NK Series Aluminum Electrolytic Capacitors Screw Terminal

FEATURES:

- Screw terminal type • 85°C smaller-sized • Load life 5,000 hours application of ripple current @ 85°C

SPECIFICATIONS:

Temperature Range	-25°C ~ 85°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 5 minutes application of rated voltage, leakage current is not more than 3√CV (µA) or 5mA, whichever is smaller (@ 20°C).C: Rated capacitance (µF), V: Voltage (V)

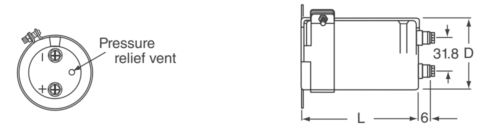

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (mA)	Rated Ripple Current @120Hz/85°C (Arms)	Dimensions øD x L (mm)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
350	10,000	0.20	5.00	25.1	76.2 x 155	493-3167-ND	103.80	98.44	91.28	LNK2V103MSEH
	10,000	0.20	5.00	25.9	90 x 140	493-3168-ND	103.80	98.44	91.28	LNK2V103MSEJ
	12,000	0.20	5.00	28.4	90 x 150	493-3169-ND	123.57	117.19	108.67	LNK2V123MSEJ
400	10,000	0.20	5.00	26.2	76.2 x 170	493-3170-ND	138.40	131.25	121.70	LNK2G103MSEH
	10,000	0.20	5.00	24.2	90 x 130	493-3171-ND	138.40	131.25	121.70	LNK2G103MSEJ
	12,000	0.20	5.00	28.5	90 x 155	493-3172-ND	145.55	140.79	129.68	LNK2G123MSEJ
	15,000	0.20	5.00	34.8	90 x 190	493-3173-ND	234.36	226.70	208.80	LNK2G153MSEJ
	18,000	0.20	5.00	41.2	90 x 235	493-3174-ND	268.90	260.11	239.57	LNK2G183MSEJ
450	12,000	0.20	5.00	29.7	90 x 190	493-3175-ND	192.42	186.13	171.44	LNK2W123MSEJ
	15,000	0.20	5.00	35.9	90 x 235	493-3176-ND	268.90	260.11	239.57	LNK2W153MSEJ
500	10,000	0.20	5.00	29.3	90 x 235	493-3177-ND	303.44	293.51	270.34	LNK2H103MSEJ

nichicon FW, KW and KZ Series Aluminum Electrolytic Audio Capacitors

FEATURES:

FW Series:

- Standard for audio equipment

KW Series:

- Standard for audio equipment • Realization of a harmonious balance of sound quality, made possible by the development of new electrolyte • Most suited for AV equipment like DVD, MD

KZ Series:

- Premium grade type for audio equipment • Premium grade "nichicon MUSE" acoustic series • Ideally suited for first class audio equipment where qualitative and quantitative comfortableness is required

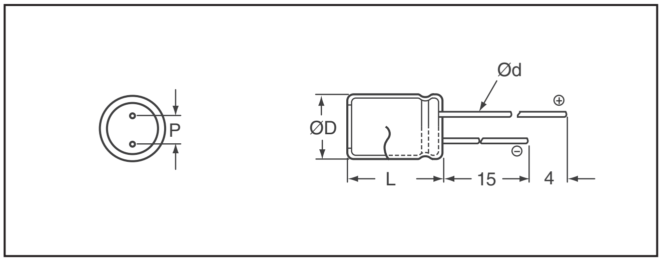

Size	Dimensions — mm			
	øD	**L**	**ød**	**P**
FW and KW Series				
5 x 11	5	11	0.5	2.0
10 x 12.5	10	12.5	0.6	5.0
16 x 25	16	25	0.8	7.5
18 x 35.5	18	35.5	0.8	7.5
18 x 40	18	40	0.8	7.5
25 x 50	25	50	1.0	12.5
KZ Series				
8 x 11.5	8	11.5	0.8	3.5
10 x 12.5	10	12.5	0.8	5.0
10 x 16	10	16	0.8	5.0
12.5 x 20	12.5	20	0.8	5.0
12.5 x 25	12.5	25	0.8	5.0
16 x 25	16	25	0.8	7.5
16 x 35.5	16	35.5	0.8	7.5
18 x 40	18	40	0.8	7.5

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	**FW and KW Series:** After 1 minute application of rated voltage, leakage current is not more than 0.03 CV or 4 (µA), whichever is greater. After 2 minutes application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater. **KZ Series:** After 1 minute application of rated voltage, leakage current is 0.01 CV or less

Rated Voltage (VDC)	Capacitance (µF)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Current @120Hz/85°C (mArms)	Size (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Nichicon Part No.
FW Series — Standard Type									
16	4,700	0.26	2,100	16 x 25	493-3178-ND	1.76	14.22	108.57	UFW1C472MHD
25	47	0.16	115	5 x 11	493-3179-ND	.35	2.45	14.70	UFW1E470MDD
35	330	0.14	470	10 x 12.5	493-3180-ND	.73	5.13	33.75	UFW1V331MPD
	2,200	0.16	1,800	16 x 25	493-3181-ND	1.76	13.89	104.18	UFW1V222MHD
	4,700	0.20	2,490	18 x 35.5	493-3182-ND	2.35	18.98	144.90	UFW1V472MHD
50	10,000	0.30	4,000	25 x 50	493-3183-ND	5.42	48.76	368.39	UFW1H103MRD
100	47	0.08	210	10 x 12.5	493-3184-ND	.57	4.02	26.46	UFW2A470MPD
	1,000	0.08	1,370	18 x 40	493-3185-ND	2.10	16.97	129.57	UFW2A102MHD
KW Series — Standard Type									
50	1	0.12	10	5 x 11	493-3186-ND	.32	2.16	12.24	UKW1H010MDD
	10	0.12	65	5 x 11	493-3187-ND	.35	2.45	14.70	UKW1H100MDD
KZ Series — Premium Type									
25	33	0.12	—	8 x 11.5	493-3188-ND	.42	2.95	19.44	UKZ1E330MPM
	47	0.12	—	10 x 12.5	493-3189-ND	.51	3.61	23.76	UKZ1E470MPM
	100	0.12	—	10 x 16	493-3190-ND	.62	4.39	28.89	UKZ1E101MPM
	330	0.12	—	12.5 x 25	493-3191-ND	.79	5.98	42.78	UKZ1E331MHM
	470	0.12	—	16 x 25	493-3192-ND	1.04	7.93	56.73	UKZ1E471MHM
50	22	0.08	—	8 x 11.5	493-3193-ND	.43	2.98	17.87	UKZ1H220MPM
	47	0.08	—	10 x 16	493-3194-ND	.62	4.39	28.89	UKZ1H470MPM
	100	0.08	—	12.5 x 20	493-3195-ND	.77	5.71	39.12	UKZ1H101MHM
	220	0.08	—	16 x 25	493-3196-ND	.90	6.83	48.83	UKZ1H221MHM
	470	0.08	—	16 x 35.5	493-3197-ND	1.30	10.29	77.18	UKZ1H471MHM
	1,000	0.08	—	18 x 40	493-3198-ND	1.80	14.55	111.09	UKZ1H102MHM
100	47	0.07	—	12.5 x 20	493-3199-ND	.83	6.13	42.00	UKZ2A470MHM
	100	0.07	—	16 x 25	493-3200-ND	.98	7.77	58.28	UKZ2A101MHM
	220	0.07	—	16 x 35.5	493-3201-ND	1.46	11.49	86.18	UKZ2A221MHM

UQ Series Aluminum Electrolytic Audio Capacitors (SMT)

FEATURES:

- Chip type for audio equipment • Wide temperature range • Chip type acoustic series within the wide temperature range • Applicable to automatic mounting machine using carrier tape

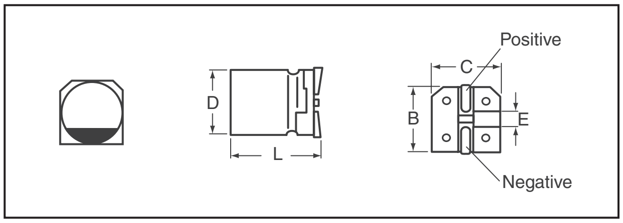

Size	Dimensions — mm				
	øD	**L**	**B**	**C**	**E**
4 x 5.4	4	5.4	4.3	4.3	1.0
5 x 5.4	5	5.4	5.3	5.3	1.3
6.3 x 5.4	6.3	5.4	6.6	6.6	2.2
8 x 6.2	8	6.2	8.3	8.3	2.3
8 x 10	8	10	8.3	8.3	3.1
10 x 10	10	10	10.3	10.3	4.5

SPECIFICATIONS:

Temperature Range	-40°C ~ 105°C
Capacitance Tolerance	±20% @ 120Hz, 20°C
Leakage Current	After 1 minute application of rated voltage, leakage current is not more than 0.03 CV or 4 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Current @120Hz/105°C (mArms)	Size (mm)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Nichicon Part No.
25	10	0.16	23	5 x 5.4	493-3202-1-ND	.72	5.73	34.50	493-3202-2-ND	1,000	131.00	UUQ1E100MCL1GB
	33	0.16	48	6.3 x 5.4	493-3205-1-ND	.94	7.84	49.14	493-3205-2-ND	1,000	199.00	UUQ1E330MCL1GB
	47	0.16	66	8 x 6.2	493-3206-1-ND	1.11	9.43	64.08	493-3206-2-ND	1,000	285.00	UUQ1E470MCL1GS
	100	0.16	155	8 x 10	493-3203-1-ND	1.31	10.74	86.46	493-3203-2-ND	500	222.50	UUQ1E101MCL1GS
	220	0.16	300	10 x 10	493-3204-1-ND	1.52	12.46	100.32	493-3204-2-ND	500	258.50	UUQ1E221MCL1GS
50	1	0.12	6.2	4 x 5.4	493-3207-1-ND	.52	4.08	21.35	493-3207-2-ND	2,000	74.26/M	UUQ1H010MCL1GB
	10	0.12	30	6.3 x 5.4	493-3208-1-ND	.94	7.84	49.14	493-3208-2-ND	1,000	199.00	UUQ1H100MCL1GB
	22	0.12	51	8 x 6.2	493-3210-1-ND	1.11	9.43	64.08	493-3210-2-ND	1,000	285.00	UUQ1H220MCL1GS
	33	0.12	140	8 x 10	493-3211-1-ND	1.31	10.74	86.46	493-3211-2-ND	500	222.50	UUQ1H330MCL1GS
	47	0.12	180	8 x 10	493-3212-1-ND	1.31	10.74	86.46	493-3212-2-ND	500	222.50	UUQ1H470MCL1GS
	100	0.12	220	10 x 10	493-3209-1-ND	1.52	12.46	100.32	493-3209-2-ND	500	258.50	UUQ1H101MCL1GS

CDE CORNELL DUBILIER

SEK/SK Series Radial Leaded Aluminum Electrolytic Capacitors

The SEK series is a radial leaded aluminum electrolytic capacitor with a +105°C, 2000 hour long life rating. The volumetric efficient high CV product of the SEK makes it ideal for high density packaging in general purpose, coupling, decoupling, bypass and filtering circuit applications. **Specifications:** • Capacitance Tolerance: ±20% • Max DC Leakage Current: .01CV or 3µA maximum, whichever is greater.

The SK series is a radial leaded aluminum electrolytic capacitor with a +85°C, 2000 hour long life rating. The SK is a high CV rated product and is ideal for general purpose applications such as stereo radio, TV, computers and other consumer electronic products. **Specifications:** • Capacitance Tolerance: ±20% • Max DC Leakage Current: ≤.01CV or 3µA maximum, whichever is greater.

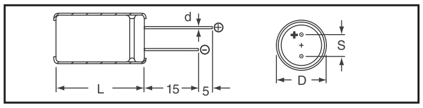

Rated W.V. (VDC)	Capacitance (µF)	Max. ESR @ 120Hz 25°C (Ω)	Max. Ripple @ 120Hz 105°C (mA)	Dimensions - (mm)				Digi-Key Part No.	Pricing			Cornell Dubilier Part No.
				D	L	S	d		1	10	100	
SEK Series												
16	47	5.08	85	5.0	11.0	2.0	0.5	338-1732-ND	.21	1.80	15.00	SEK470M016ST
	100	2.39	135	6.3	11.0	2.5	0.5	338-1728-ND	.42	3.60	30.00	SEK101M016ST
	220	1.09	235	8.0	11.5	3.5	0.6	338-1749-ND	.67	5.70	47.50	SEK221M016ST
	330	0.72	285	8.0	11.0	3.5	0.6	338-1735-ND	.74	6.30	52.50	SEK331M016ST
	470	0.51	395	10.0	13.0	5.0	0.6	338-1751-ND	.95	8.10	67.50	SEK471M016ST
	1,000	0.24	700	10.0	21.0	5.0	0.6	338-1734-ND	1.33	11.40	95.00	SEK102M016ST
	2,200	0.12	1150	13.0	21.0	5.0	0.6	338-1738-ND	2.49	21.30	177.50	SEK222M016ST
25	10	21.23	50	5.0	11.0	2.0	0.5	338-1716-ND	.21	1.80	15.00	SEK100M025ST
	22	9.65	60	5.0	11.0	2.0	0.5	338-1727-ND	.21	1.80	15.00	SEK220M025ST
	100	2.12	145	6.3	11.0	2.5	0.5	338-1721-ND	.53	4.50	37.50	SEK101M025ST
	220	0.97	250	8.0	11.0	3.5	0.6	338-1723-ND	.67	5.70	47.50	SEK221M025ST
	330	0.64	355	10.0	13.0	5.0	0.6	338-1756-ND	.98	8.40	70.00	SEK331M025ST
	470	0.45	470	10.0	16.0	5.0	0.6	338-1715-ND	1.26	10.80	90.00	SEK471M025ST
	1,000	0.21	855	13.0	21.0	5.0	0.6	338-1745-ND	1.82	15.60	130.00	SEK102M025ST
	2,200	0.11	1230	13.0	26.0	5.0	0.6	338-1742-ND	2.80	24.00	200.00	SEK222M025ST
35	22	8.44	65	5.0	11.0	2.0	0.5	338-1719-ND	.21	1.80	15.00	SEK220M035ST
	33	5.63	85	5.0	11.0	2.0	0.5	338-1743-ND	.25	2.10	17.50	SEK330M035ST
	220	0.84	315	10.0	13.0	5.0	0.6	338-1733-ND	.88	7.50	62.50	SEK221M035ST
	330	0.56	440	10.0	16.0	5.0	0.6	338-1741-ND	1.30	11.10	92.50	SEK331M035ST
	470	0.40	580	13.0	20.0	5.0	0.6	338-1724-ND	1.37	11.70	97.50	SEK471M035ST
	1,000	0.19	995	13.0	21.0	5.0	0.6	338-1713-ND	2.52	21.60	180.00	SEK102M035ST
	2,200	0.10	1450	16.0	32.0	7.5	0.8	338-1757-ND	5.39	46.20	385.00	SEK222M035ST
50	1.0	159.24	12.0	5.0	11.0	2.0	0.5	338-1736-ND	.21	1.80	15.00	SEK010M050ST
	3.3	48.25	25.0	5.0	11.0	2.0	0.5	338-1754-ND	.18	1.50	12.50	SEK3R3M050ST
	4.7	33.88	30.0	5.0	11.0	2.0	0.5	338-1710-ND	.21	1.80	15.00	SEK4R7M050ST
	10	15.92	50.0	5.0	11.0	2.0	0.5	338-1711-ND	.21	1.80	15.00	SEK100M050ST
	22	7.24	75.0	5.0	11.0	2.0	0.5	338-1726-ND	.18	1.50	12.50	SEK220M050ST
	47	3.39	125.0	6.3	11.5	2.5	0.5	338-1717-ND	.60	5.10	42.50	SEK470M050ST
	100	1.59	210.0	8.0	11.0	3.5	0.6	338-1725-ND	.67	5.70	47.50	SEK101M050ST
	220	0.72	400.00	10.0	16.0	5.0	0.6	338-1720-ND	1.12	9.60	80.00	SEK221M050ST
	330	0.48	535.0	10.0	21.0	5.0	0.6	338-1748-ND	1.44	12.30	102.50	SEK331M050ST
	470	0.34	730.0	13.0	21.0	5.0	0.6	338-1731-ND	1.93	16.50	137.50	SEK471M050ST
	1,000	0.16	1110.0	16.0	25.0	7.5	0.8	338-1729-ND	4.38	37.50	312.50	SEK102M050ST
	2,200	0.08	1530.0	18.0	36.0	7.5	0.8	338-1718-ND	5.15	44.10	367.50	SEK222M050ST
63	10	13.27	55	5.0	11.0	2.0	0.5	338-1744-ND	.21	1.80	15.00	SEK100M063ST
	22	6.03	90	6.3	11.0	2.5	0.5	338-1722-ND	.32	2.70	22.50	SEK220M063ST
	33	4.02	110	6.3	11.0	2.5	0.5	338-1714-ND	.25	2.10	17.50	SEK330M063ST
	220	0.60	460	10.0	21.0	5.0	0.6	338-1737-ND	1.47	12.60	105.00	SEK221M063ST
100	1.0	132.70	15	5.0	11.0	2.0	0.5	338-1730-ND	.84	7.20	60.00	SEK010M100ST
	2.2	60.32	22	5.0	11.0	2.0	0.5	338-1740-ND	.21	1.80	15.00	SEK2R2M100ST
	10	13.27	65	6.3	11.0	2.5	0.5	338-1739-ND	.49	4.20	35.00	SEK100M100ST
	22	6.03	115	8.0	11.0	3.5	0.6	338-1747-ND	.49	4.20	35.00	SEK220M100ST
160	10	19.90	70	8.0	11.0	3.5	0.6	338-1752-ND	1.02	8.70	72.50	SEK100M160ST
250	22	9.05	155	13.0	21.0	5.0	0.6	338-1750-ND	2.07	17.70	147.50	SEK220M250ST
	33	6.03	190	13.0	21.0	5.0	0.6	338-1746-ND	2.38	20.40	170.00	SEK330M250ST
	47	4.23	230	13.0	26.0	5.0	0.6	338-1753-ND	3.22	27.60	230.00	SEK470M250ST
	100	1.99	340	16.0	32.0	7.5	0.8	338-1755-ND	4.13	35.40	295.00	SEK101M250ST
400	22	12.06	170	13.0	26.0	5.0	0.6	338-1712-ND	3.33	28.50	237.50	SEK220M400ST

Rated W.V. (VDC)	Capacitance (µF)	Max. ESR @ 120Hz 25°C (Ω)	Max. Ripple @ 120Hz 85°C (mA)	Dimensions - (mm)				Digi-Key Part No.	Pricing			Cornell Dubilier Part No.
				D	L	S	d		1	10	100	
SK Series												
10	47	5.36	95	5.0	11.0	2.0	0.5	338-1699-ND	.18	1.50	12.50	SK470M010ST
	220	1.15	250	6.3	11.0	2.5	0.5	338-1708-ND	.42	3.60	30.00	SK221M010ST
	470	0.54	400	8.0	11.0	3.5	0.6	338-1709-ND	.60	5.10	42.50	SK471M010ST
16	22	9.65	75	5.0	11.0	2.0	0.5	338-1680-ND	.18	1.50	12.50	SK220M016ST
	47	4.52	130	5.0	11.0	2.0	0.5	338-1685-ND	.18	1.50	12.50	SK470M016ST
	100	2.12	185	6.3	11.0	2.5	0.5	338-1692-ND	.21	1.80	15.00	SK101M016ST
	220	0.97	320	8.0	11.5	3.5	0.6	338-1696-ND	.56	4.80	40.00	SK221M016ST
	470	0.45	470	10.0	13.0	5.0	0.6	338-1678-ND	.88	7.50	62.50	SK471M016ST
	1,000	0.21	790	10.0	21.0	5.0	0.6	338-1689-ND	1.30	11.10	92.50	SK102M016ST
	6,800	0.07	2500	18.0	35.0	7.5	0.8	338-1693-ND	7.32	62.70	522.50	SK682M016ST
25	10	18.57	50	5.0	11.0	2.0	0.5	338-1697-ND	.18	1.50	12.50	SK100M025ST
	22	8.44	90	5.0	11.0	2.0	0.5	338-1679-ND	.18	1.50	12.50	SK220M025ST
	47	3.95	130	5.0	11.0	2.0	0.5	338-1672-ND	.18	1.50	12.50	SK470M025ST
	100	1.85	185	6.3	11.0	2.5	0.5	338-1684-ND	.42	3.60	30.00	SK101M025ST
	220	0.84	320	8.0	11.5	3.5	0.6	338-1686-ND	.56	4.80	40.00	SK221M025ST
	330	0.56	420	10.0	13.0	5.0	0.6	338-1690-ND	.88	7.50	62.50	SK331M025ST
	470	0.39	540	10.0	16.0	5.0	0.6	338-1682-ND	1.16	9.90	82.50	SK471M025ST
	1,000	0.18	950	13.0	21.0	5.0	0.6	338-1706-ND	1.72	14.70	122.50	SK102M025ST
	4,700	0.08	2360	18.0	35.0	7.5	0.8	338-1704-ND	6.09	52.20	435.00	SK472M025ST
35	10	15.92	60	5.0	11.0	2.0	0.5	338-1667-ND	.18	1.50	12.50	SK100M035ST
	22	7.23	95	5.0	11.0	2.0	0.5	338-1687-ND	.18	1.50	12.50	SK220M035ST
	33	4.82	115	5.0	11.0	2.0	0.5	338-1670-ND	.18	1.50	12.50	SK330M035ST
	47	3.38	140	6.3	11.0	2.5	0.5	338-1676-ND	.25	2.10	17.50	SK470M035ST
	100	1.59	230	8.0	11.5	3.5	0.6	338-1669-ND	.53	4.50	37.50	SK101M035ST
	220	0.72	370	10.0	13.0	5.0	0.6	338-1666-ND	.81	6.90	57.50	SK221M035ST
	330	0.48	490	10.0	16.0	5.0	0.6	338-1665-ND	1.19	10.20	85.00	SK331M035ST
	470	0.33	640	10.0	21.0	5.0	0.6	338-1664-ND	1.33	11.40	95.00	SK471M035ST
	1,000	0.15	1100	13.0	21.0	5.0	0.6	338-1694-ND	2.28	19.50	162.50	SK102M035ST
	2,200	0.14	1800	16.0	32.0	7.5	0.8	338-1707-ND	4.66	39.90	332.50	SK222M035ST
50	2.2	60.32	23	5.0	11.0	2.0	0.5	338-1675-ND	.18	1.50	12.50	SK2R2M050ST
	10	13.27	65	5.0	11.0	2.0	0.5	338-1671-ND	.18	1.50	12.50	SK100M050ST
	22	6.03	100	5.0	11.0	2.0	0.5	338-1691-ND	.18	1.50	12.50	SK220M050ST
	33	4.02	125	6.3	11.0	2.5	0.5	338-1673-ND	.42	3.60	30.00	SK330M050ST
	47	2.82	150	6.3	11.0	2.5	0.5	338-1677-ND	.95	8.10	67.50	SK470M050ST
	100	1.33	250	8.0	11.0	3.5	0.6	338-1668-ND	.63	5.40	45.00	SK101M050ST
	220	0.60	440	10.0	16.0	5.0	0.6	338-1674-ND	1.19	10.20	85.00	SK221M050ST
	470	0.28	760	13.0	21.0	5.0	0.6	338-1703-ND	1.82	15.60	130.00	SK471M050ST
	1,000	0.13	1350	16.0	25.0	7.5	0.6	338-1688-ND	3.36	28.80	240.00	SK102M050ST
63	22	5.43	115	6.3	11.0	2.5	0.5	338-1695-ND	.42	3.60	30.00	SK220M063ST
	47	2.54	190	8.0	11.0	3.5	0.6	338-1683-ND	.53	4.50	37.50	SK470M063ST
	100	1.19	300	10.0	13.0	5.0	0.6	338-1705-ND	.84	7.20	60.00	SK101M063ST
100	10	10.62	75	6.3	11.0	2.5	0.5	338-1700-ND	.28	2.40	20.00	SK100M100ST
	220	0.48	710	16.0	25.0	7.5	0.8	338-1701-ND	3.22	27.60	230.00	SK221M100ST
	470	0.23	1100	16.0	32.0	7.5	0.8	338-1702-ND	6.30	54.00	450.00	SK471M100ST
250	33	6.03	160	13.0	21.0	5.0	0.6	338-1698-ND	1.89	16.20	135.00	SK330M250ST
450	33	8.04	150	16.0	36.0	7.5	0.8	338-1681-ND	6.13	52.50	437.50	SK330M450ST

CDE CORNELL DUBILIER

AVE Series Aluminum Electrolytic Capacitors (SMT) —
General Purpose -40°C ~ 85°C

The AVE series capacitors are a great value for filter and bypass applications not requiring wide temperature performance or high ripple current. Their vertical cylindrical cases facilitate automatic mounting and reflow soldering and offer a significant savings over tantalum capacitors.
Specifications: • Operating Temperature: -40°C ~ 85°C • Leakage Current: 0.01CV or 3µA @ 20°C after 2 minutes (whichever is greater)

Case Code	Case Dimensions (mm) øD	L	A	C	W	P ±0.2
A	3	5.3 ±0.2	3.3	1.5	.45 ~ 0.75	0.8
B	4	5.3 ±0.2	4.3	2.0	0.5 ~ 0.8	1.0
C	5	5.3 ±0.2	5.3	2.3	0.5 ~ 0.8	1.5
D	6.3	5.3 ±0.2	6.6	2.7	0.5 ~ 0.8	2.0

Case Code	Case Dimensions (mm) øD	L	A	C	W	P ±0.2
X	6.3	7.7 ±0.3	6.6	2.7	0.5 ~ 0.8	2.0
E	8	6.5 ±0.3	8.4	3.4	0.5 ~ 0.8	2.3
F	8	10 ±0.5	8.4	3.0	0.7 ~ 1.1	3.1
G	10	10 ±0.5	10.4	3.3	0.7 ~ 1.1	4.7

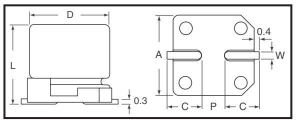

Rated Voltage (VDC)	Capacitance (µF)	Case Code	Max. ESR @ 120Hz / 20°C (Ω)	Max. Ripple Current @ 120Hz / 85°C (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Cornell Dubilier Part No.
6.3	22	B	21.10	23	338-1786-1-ND	.08	.68	5.78	338-1786-2-ND	2,000	33.60/M	AVE226M06B12T-F
6.3	100	D	4.64	120	338-1787-1-ND	.12	1.01	8.53	338-1787-2-ND	1,000	49.60	AVE107M06D16T-F
10	22	C	18.09	39	338-1788-1-ND	.12	1.01	8.53	338-1788-2-ND	1,000	49.60	AVE226M10C12T-F
10	220	E	1.81	155	338-1789-1-ND	.22	1.89	15.95	338-1789-2-ND	1,000	92.80	AVE227M10E16T-F
10	330	F	1.21	252	338-1790-1-ND	.28	2.44	20.63	338-1790-2-ND	500	75.00	AVE337M10F24T-F
10	470	G	0.85	458	338-1791-1-ND	.40	3.45	29.15	338-1791-2-ND	500	106.00	AVE477M10G24T-F
10	1000	G	0.40	458	338-1792-1-ND	.40	3.45	29.15	338-1792-2-ND	500	106.00	AVE108M10G24T-F
16	10	A	33.16	14	338-1793-1-ND	.15	1.27	10.73	338-1793-2-ND	2,000	62.40/M	AVE106M16A12T-F
16	10	B	33.16	26	338-1794-1-ND	.08	.68	5.78	338-1794-2-ND	2,000	33.60/M	AVE106M16B12T-F
16	22	C	15.07	44	338-1795-1-ND	.11	.91	7.70	338-1795-2-ND	1,000	44.80	AVE226M16C12T-F
16	33	D	10.05	63	338-1796-1-ND	.12	1.04	8.80	338-1796-2-ND	1,000	51.20	AVE336M16D16T-F
16	47	D	7.05	75	338-1797-1-ND	.12	1.01	8.53	338-1797-2-ND	1,000	49.60	AVE476M16D16T-F
16	100	E	3.32	155	338-1798-1-ND	.22	1.89	15.95	338-1798-2-ND	1,000	92.80	AVE107M16E16T-F
16	330	F	1.00	252	338-1799-1-ND	.28	2.44	20.63	338-1799-2-ND	500	75.00	AVE337M16F24T-F
16	470	G	0.71	458	338-1800-1-ND	.40	3.45	29.15	338-1800-2-ND	500	106.00	AVE477M16G24T-F
25	4.7	B	49.38	19	338-1801-1-ND	.08	.68	5.78	338-1801-2-ND	2,000	33.60/M	AVE475M25B12T-F
25	10	C	23.21	32	338-1802-1-ND	.11	.91	7.70	338-1802-2-ND	1,000	44.80	AVE106M25C12T-F
25	22	D	10.55	55	338-1803-1-ND	.12	1.01	8.53	338-1803-2-ND	1,000	49.60	AVE226M25D16T-F
25	47	E	4.94	155	338-1804-1-ND	.22	1.92	16.23	338-1804-2-ND	1,000	94.40	AVE476M25E16T-F
25	100	X	2.32	124	338-1805-1-ND	.13	1.14	9.63	338-1805-2-ND	1,000	56.00	AVE107M25X16T-F
25	100	E	2.32	155	338-1806-1-ND	.22	1.89	15.95	338-1806-2-ND	1,000	92.80	AVE107M25E16T-F
25	220	F	1.06	252	338-1807-1-ND	.28	2.44	20.63	338-1807-2-ND	500	75.00	AVE227M25F24T-F
25	330	G	0.70	458	338-1808-1-ND	.40	3.45	29.15	338-1808-2-ND	500	106.00	AVE337M25G24T-F
35	4.7	B	42.33	20	338-1809-1-ND	.08	.68	5.78	338-1809-2-ND	2,000	33.60/M	AVE475M35B12T-F
35	10	C	19.89	34	338-1810-1-ND	.11	.91	7.70	338-1810-2-ND	1,000	44.80	AVE106M35C12T-F
35	22	D	9.04	59	338-1811-1-ND	.12	1.01	8.53	338-1811-2-ND	1,000	49.60	AVE226M35D16T-F
35	100	F	1.99	252	338-1812-1-ND	.28	2.44	20.63	338-1812-2-ND	500	75.00	AVE107M35F24T-F
50	.10	B	1657.83	3	338-1813-1-ND	.08	.68	5.78	338-1813-2-ND	2,000	33.60/M	AVE104M50B12T-F
50	.22	B	753.56	5	338-1814-1-ND	.08	.68	5.78	338-1814-2-ND	2,000	33.60/M	AVE224M50B12T-F
50	.47	B	352.73	7	338-1815-1-ND	.08	.68	5.78	338-1815-2-ND	2,000	33.60/M	AVE474M50B12T-F
50	1	B	165.78	10	338-1816-1-ND	.08	.68	5.78	338-1816-2-ND	2,000	33.60/M	AVE105M50B12T-F
50	2.2	B	75.36	15	338-1817-1-ND	.08	.68	5.78	338-1817-2-ND	2,000	33.60/M	AVE225M50B12T-F
50	3.3	B	50.24	19	338-1818-1-ND	.08	.68	5.78	338-1818-2-ND	2,000	33.60/M	AVE335M50B12T-F

AVRF Series Aluminum Electrolytic Capacitors (SMT) —
Low Impedance and Long Life -55°C ~ 105°C

The AVRF Series is a low impedance and long life capacitor for filtering, by-passing, and power supply decoupling. It excels at cold performance down to -55°C and is at a significant cost savings compared to tantalum (as well as similar impedance characteristics to low ESR tantalums). The vertical cylindrical cases facilitate automatic mounting and reflow soldering into the same footprint of like-rated tantalum capacitors except without the need for voltage derating. **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Leakage current: 0.01CV or 3µA @ 20°C, after 2 minutes (whichever is greater)

Case Code	Case Dimensions (mm) D ±.05	L	C	A	W
B	4.0	5.4 ±0.2	4.3	1.8	0.65 ±0.1
C	5.0	5.4 ±0.3	5.3	2.2	0.65 ±0.1
D	6.3	5.4 ±0.2	6.6	2.6	0.65 ±0.1
F	8.0	10.2 ±0.5	8.3	3.4	0.90 ±0.2
G	10.0	10.2 ±0.5	10.3	3.5	0.90 ±0.2

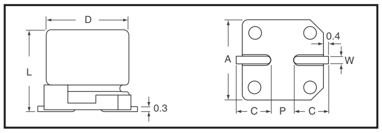

Rated Voltage (VDC)	Capacitance (µF)	Case Code	Max. ESR @ 100kHz / 20°C (Ω)	Max. Ripple Current @ 100kHz / 105°C (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Cornell Dubilier Part No.
6.3	47	B	1.65	70	338-1819-1-ND	.24	2.08	17.60	338-1819-2-ND	2,000	102.40/M	AVRF476M06B12T-F
6.3	100	C	0.90	100	338-1820-1-ND	.28	2.41	20.35	338-1820-2-ND	1,000	118.40	AVRF107M06C12T-F
6.3	1000	F	0.16	600	338-1821-1-ND	.41	3.58	30.25	338-1821-2-ND	500	110.00	AVRF108M06F24T-F
10	33	B	1.65	70	338-1822-1-ND	.24	2.08	17.60	338-1822-2-ND	2,000	102.40/M	AVRF336M10B12T-F
10	330	F	0.16	600	338-1823-1-ND	.41	3.58	30.25	338-1823-2-ND	500	110.00	AVRF337M10F24T-F
10	1000	G	0.08	850	338-1824-1-ND	.83	7.18	60.78	338-1824-2-ND	500	221.00	AVRF108M10G24T-F
16	22	B	1.65	70	338-1825-1-ND	.24	2.08	17.60	338-1825-2-ND	2,000	102.40/M	AVRF226M16B12T-F
16	47	C	0.90	100	338-1826-1-ND	.28	2.41	20.35	338-1826-2-ND	1,000	118.40	AVRF476M16C12T-F
16	68	D	0.50	160	338-1827-1-ND	.31	2.70	22.83	338-1827-2-ND	1,000	132.80	AVRF686M16D16T-F
16	330	F	0.16	600	338-1828-1-ND	.41	3.58	30.25	338-1828-2-ND	500	110.00	AVRF337M16F24T-F
16	470	F	0.16	600	338-1829-1-ND	.41	3.58	30.25	338-1829-2-ND	500	110.00	AVRF477M16F24T-F
25	10	B	1.65	70	338-1830-1-ND	.24	2.08	17.60	338-1830-2-ND	2,000	102.40/M	AVRF106M25B12T-F
25	33	D	0.50	160	338-1831-1-ND	.31	2.70	22.83	338-1831-2-ND	1,000	132.80	AVRF336M25D16T-F
25	47	D	0.50	160	338-1832-1-ND	.31	2.70	22.83	338-1832-2-ND	1,000	132.80	AVRF476M25D16T-F
25	220	F	0.16	600	338-1833-1-ND	.41	3.58	30.25	338-1833-2-ND	500	110.00	AVRF227M25F24T-F
25	470	G	0.08	850	338-1834-1-ND	.83	7.18	60.78	338-1834-2-ND	500	221.00	AVRF477M25G24T-F
35	10	C	0.90	100	338-1835-1-ND	.24	2.08	17.60	338-1835-2-ND	1,000	102.40	AVRF106M35C12T-F
35	47	F	0.16	600	338-1836-1-ND	.41	3.58	30.25	338-1836-2-ND	500	110.00	AVRF476M35F24T-F
35	100	F	0.16	600	338-1837-1-ND	.41	3.58	30.25	338-1837-2-ND	500	110.00	AVRF107M35F24T-F
35	330	G	0.08	850	338-1838-1-ND	.83	7.18	60.78	338-1838-2-ND	500	221.00	AVRF337M35G24T-F

AVEK Series Aluminum Electrolytic Capacitors (SMT) —
Long Life -55°C ~ 105°C

The AVEK Series capacitors are rated for 5,000 hours at 105°C with low impedance characteristics. They are ideal for high density PC board packaging. This series offers a low in-place-cost for a high quality performer. The vertical cylindrical cases facilitate automatic mounting and reflow soldering into the same footprint of like-rated tantalum capacitors except without the need for voltage derating. **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Leakage Current: 0.01CV or 3µA @ 20°C for 2 minutes (whichever is greater)

Case Code	Case Dimensions (mm) øD	L	A	C	W	P ±0.2
F	8.0	10 ±0.5	8.4	3.0	0.7 ~ 1.1	3.1
G	10.0	10 ±0.5	10.4	3.3	0.7 ~ 1.1	4.7

Rated Voltage (VDC)	Capaci-tance (µF)	Case Code	Max. ESR @ 120Hz / 20°C (Ω)	Max. RippleCurrent @ 120Hz / 105°C (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Cornell Dubilier Part No.
16	100	F	3.6	178	338-1839-1-ND	.32	2.76	23.38	338-1839-2-ND	85.00	AVEK107M16F24T-F
25	100	F	2.7	178	338-1840-1-ND	.32	2.73	23.10	338-1840-2-ND	84.00	AVEK107M25F24T-F
35	100	G	2.2	324	338-1841-1-ND	.45	3.90	33.00	338-1841-2-ND	120.00	AVEK107M35G24T-F
10	220	F	2.0	178	338-1842-1-ND	.31	2.70	22.83	338-1842-2-ND	83.00	AVEK227M10F24T-F
16	220	F	1.7	178	338-1843-1-ND	.32	2.76	23.38	338-1843-2-ND	85.00	AVEK227M16F24T-F
50	33	F	6.0	178	338-1844-1-ND	.33	2.89	24.48	338-1844-2-ND	89.00	AVEK336M50F24T-F
10	330	G	1.3	324	338-1845-1-ND	.45	3.90	33.00	338-1845-2-ND	120.00	AVEK337M10G24T-F
35	47	F	4.6	178	338-1846-1-ND	.32	2.73	23.10	338-1846-2-ND	84.00	AVEK476M35F24T-F
50	47	F	4.2	178	338-1847-1-ND	.34	2.96	25.03	338-1847-2-ND	91.00	AVEK476M50F24T-F

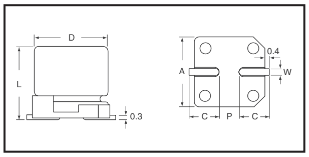

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMG Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C

Features: Miniature, General Purpose, Solvent Proof (except 350V ~ 450V), 85°C Maximum Temperature (2000 Hour Life)
Specifications: • Operating Temperature: -40°C ~ 85°C (6.3V ~ 400V), -25°C ~ 85°C (450V) **• Capacitance Tolerance:** ±20%

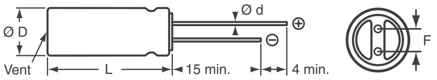

Leakage Current @ 20°C:

øD	DC Voltage	Test Time	Leakage Current (µA)	
≤ ø18	6.3V ~ 100V	After 1 Minute	I = 0.03CV or 4µA, whichever is greater	
	160V ~ 450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40	CV>1,000: I=0.04CV +100
		After 5 Minutes	CV≤ 1,000: I=0.03CV +15	CV>1,000: I=0.02CV +25
≥ ø20	6.3V ~ 450V	After 3 Minutes	I=0.03CV	

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
6.3	470	0.34	320	6.3	11.0	2.5	0.5	565-1005-ND	.32	2.20	13.20	ESMG6R3ELL471MF11D
	2200	0.36	1000	10.0	20.0	5.0	0.6	565-1006-ND	.69	4.88	32.73	ESMG6R3ELL222MJ20S
	3300	0.38	1185	10.0	20.0	5.0	0.6	565-1007-ND	.62	4.55	31.20	ESMG6R3ELL332MJ20S
	4700	0.40	1545	12.5	20.0	5.0	0.6	565-1008-ND	.98	7.25	49.68	ESMG6R3ELL472MK20S
	6800	0.44	1915	12.5	25.0	5.0	0.6	565-1009-ND	1.06	8.03	58.28	ESMG6R3ELL682MK25S
10	220	0.24	240	5.0	11.0	2.0	0.5	565-1021-ND	.29	1.98	11.22	ESMG100ELL221ME11D
	330	0.24	290	6.3	11.0	2.5	0.5	565-1022-ND	.29	2.00	12.00	ESMG100ELL331MF11D
	470	0.24	350	6.3	11.0	2.5	0.5	565-1023-ND	.30	2.05	12.30	ESMG100ELL471MF11D
	1000	0.24	650	10.0	12.5	5.0	0.6	565-1024-ND	.57	4.06	27.23	ESMG100ELL102MJC5S
	2200	0.26	1070	10.0	20.0	5.0	0.6	565-1025-ND	.62	4.55	31.20	ESMG100ELL222MJ20S
	10000	0.42	2410	20.0	25.0	10.0	1.0	565-1029-ND	2.85	22.23	176.19	ESMG100ELL103MN25S
	22000	0.66	3480	22.0	40.0	10.0	1.0	565-1031-ND	3.81	30.75	239.85	ESMG100ELL223MP40S
	33000	0.88	3560	25.4	40.0	12.5	1.0	565-1032-ND	4.28	38.48	290.70	ESMG100ELL333MQ40S
16	10	0.20	50	5.0	11.0	2.0	0.5	565-1033-ND	.27	1.86	10.54	ESMG160ELL100ME11D
	22	0.20	75	5.0	11.0	2.0	0.5	565-1034-ND	.28	1.92	10.88	ESMG160ELL220ME11D
	100	0.20	160	5.0	11.0	2.0	0.5	565-1037-ND	.28	1.92	10.88	ESMG160ELL101ME11D
	220	0.20	260	6.3	11.0	2.5	0.5	565-1038-ND	.32	2.20	13.20	ESMG160ELL221MF11D
	330	0.20	370	8.0	11.5	3.5	0.6	565-1039-ND	.43	3.00	18.00	ESMG160ELL331MHB5D
	470	0.20	440	8.0	11.5	3.5	0.6	565-1040-ND	.44	3.05	18.30	ESMG160ELL471MHB5D
	1000	0.20	785	10.0	16.0	5.0	0.6	565-1041-ND	.66	4.63	31.08	ESMG160ELL102MJ16S
	2200	0.22	1295	12.5	20.0	5.0	0.6	565-1042-ND	.85	6.23	42.72	ESMG160ELL222MK20S
	3300	0.24	1655	12.5	25.0	5.0	0.6	565-1043-ND	1.12	8.23	56.40	ESMG160ELL332MK25S
	4700	0.26	2090	16.0	25.0	7.5	0.8	565-1044-ND	1.45	10.97	79.65	ESMG160ELL472ML25S
	6800	0.30	2520	16.0	31.5	7.5	0.8	565-1046-ND	1.92	14.51	105.30	ESMG160ELL682MLN3S
	6800	0.30	2330	20.0	25.0	10.0	1.0	565-1047-ND	2.81	21.92	173.67	ESMG160ELL682MN25S
	8200	0.34	2500	20.0	30.0	10.0	1.0	565-1048-ND	3.04	23.69	187.74	ESMG160ELL822MN30S
	10000	0.38	2920	18.0	35.5	7.5	0.8	565-1049-ND	2.03	15.85	125.58	ESMG160ELL103MMP1S
25	4.7	0.16	36	5.0	11.0	2.5	0.5	565-1054-ND	.27	1.86	10.54	ESMG250ELL4R7ME11D
	10	0.16	53	5.0	11.0	2.0	0.5	565-1055-ND	.27	1.86	10.54	ESMG250ELL100ME11D
	22	0.16	78	5.0	11.0	2.0	0.5	565-1056-ND	.28	1.92	10.88	ESMG250ELL220ME11D
	47	0.16	115	5.0	11.0	2.0	0.5	565-1058-ND	.28	1.92	10.88	ESMG250ELL470ME11D
	100	0.16	190	6.3	11.0	2.5	0.5	565-1059-ND	.30	2.05	12.30	ESMG250ELL101MF11D
	220	0.16	330	8.0	11.5	3.5	0.6	565-1060-ND	.44	3.05	18.30	ESMG250ELL221MHB5D
	330	0.16	440	8.0	11.5	3.5	0.6	565-1061-ND	.45	3.10	18.60	ESMG250ELL331MHB5D
	470	0.16	545	10.0	12.5	5.0	0.6	565-1062-ND	.64	4.51	30.25	ESMG250ELL471MJC5S
	1000	0.16	955	10.0	20.0	5.0	0.6	565-1063-ND	.69	5.08	34.80	ESMG250ELL102MJ20S
	2200	0.18	1540	12.5	25.0	5.0	0.6	565-1064-ND	1.15	8.47	58.08	ESMG250ELL222MK25S
	3300	0.20	1975	16.0	25.0	7.5	0.8	565-1065-ND	1.56	11.78	85.50	ESMG250ELL332ML25S
	3300	0.20	1850	20.0	20.0	10.0	1.0	565-1066-ND	2.64	20.54	162.75	ESMG250ELL332MN20S
	4700	0.22	2420	16.0	31.5	7.5	0.8	565-1067-ND	1.89	14.26	103.50	ESMG250ELL472MLN3S
	4700	0.22	2420	20.0	25.0	10.0	1.0	565-1068-ND	2.89	22.53	178.50	ESMG250ELL472MN25S
	10000	0.34	3240	22.0	40.0	10.0	1.0	565-1074-ND	3.84	31.00	241.80	ESMG250ELL103MP40S
	12000	0.38	3240	22.0	40.0	10.0	1.0	565-1075-ND	4.03	32.50	253.50	ESMG250ELL123MP40S
	15000	0.44	3610	25.4	40.0	12.5	1.0	565-1076-ND	4.65	41.85	316.20	ESMG250ELL153MQ40S
35	10	0.14	59	5.0	11.0	2.0	0.5	565-1078-ND	.28	1.92	10.88	ESMG350ELL100ME11D
	47	0.14	130	5.0	11.0	2.0	0.5	565-1081-ND	.28	1.92	10.88	ESMG350ELL470ME11D
	100	0.14	210	6.3	11.0	2.5	0.5	565-1082-ND	.30	2.10	12.60	ESMG350ELL101MF11D
	220	0.14	385	8.0	11.5	3.5	0.6	565-1083-ND	.47	3.25	19.50	ESMG350ELL221MHB5D
	330	0.14	490	10.0	12.5	5.0	0.6	565-1084-ND	.74	5.21	34.93	ESMG350ELL331MJC5S
	470	0.14	645	10.0	16.0	5.0	0.6	565-1085-ND	.67	4.94	33.84	ESMG350ELL471MJ16S
	1000	0.14	1145	12.5	20.0	5.0	0.6	565-1086-ND	1.01	7.46	51.12	ESMG350ELL102MK20S
	2200	0.16	1785	16.0	25.0	7.5	0.8	565-1087-ND	1.56	11.81	85.73	ESMG350ELL222ML25S
	2200	0.16	1670	20.0	20.0	10.0	1.0	565-1088-ND	2.55	19.90	157.71	ESMG350ELL222MN20S
	3300	0.18	2050	20.0	25.0	10.0	1.0	565-1089-ND	3.02	23.53	186.48	ESMG350ELL332MN25S
	3900	0.18	2310	20.0	30.0	10.0	1.0	565-1090-ND	3.23	25.18	199.50	ESMG350ELL392MN30S
	4700	0.20	2700	18.0	35.5	7.5	0.8	565-1091-ND	2.21	17.23	136.50	ESMG350ELL472MMP1S
	4700	0.20	2510	20.0	35.0	10.0	1.0	565-1092-ND	3.19	25.75	200.85	ESMG350ELL472MN35S
	4700	0.20	2380	22.0	30.0	10.0	1.0	565-1093-ND	3.22	26.00	202.80	ESMG350ELL472MP30S
	5600	0.22	2690	20.0	40.0	10.0	1.0	565-1094-ND	3.38	27.25	212.55	ESMG350ELL562MN40S
	6800	0.24	3090	22.0	40.0	10.0	1.0	565-1096-ND	4.00	32.25	251.55	ESMG350ELL682MP40S
	10000	0.32	3480	25.4	40.0	12.5	1.0	565-1097-ND	4.70	42.30	319.60	ESMG350ELL103MQ40S
50	1.0	0.12	17	5.0	11.0	2.0	0.5	565-1102-ND	.26	1.80	10.20	ESMG500ELL1R0ME11D
	2.2	0.12	28	5.0	11.0	2.0	0.5	565-1103-ND	.27	1.86	10.54	ESMG500ELL2R2ME11D
	4.7	0.12	41	5.0	11.0	2.0	0.5	565-1105-ND	.27	1.86	10.54	ESMG500ELL4R7ME11D
	10	0.12	60	5.0	11.0	2.0	0.5	565-1106-ND	.27	1.86	10.54	ESMG500ELL100ME11D
	22	0.12	95	5.0	11.0	2.0	0.5	565-1107-ND	.27	1.86	10.54	ESMG500ELL220ME11D
	47	0.12	155	6.3	11.0	2.5	0.5	565-1109-ND	.29	2.00	12.00	ESMG500ELL470MF11D
	100	0.12	260	8.0	11.5	3.5	0.6	565-1110-ND	.43	3.00	18.00	ESMG500ELL101MHB5D
	220	0.12	430	10.0	12.5	5.0	0.6	565-1111-ND	.61	4.35	29.15	ESMG500ELL221MJC5S
	330	0.12	585	10.0	16.0	5.0	0.6	565-1112-ND	.70	4.92	33.00	ESMG500ELL331MJ16S
	470	0.12	755	10.0	20.0	5.0	0.6	565-1113-ND	.67	4.90	33.60	ESMG500ELL471MJ20S
	1000	0.12	1340	12.5	25.0	5.0	0.6	565-1114-ND	1.23	9.30	67.50	ESMG500ELL102MK25S
	1500	0.12	1570	20.0	20.0	10.0	1.0	565-1115-ND	2.67	20.83	165.06	ESMG500ELL152MN20S
	2200	0.14	1880	20.0	25.0	10.0	1.0	565-1116-ND	3.10	24.17	191.52	ESMG500ELL222MN25S
	2700	0.14	2150	20.0	30.0	10.0	1.0	565-1117-ND	3.25	25.33	200.76	ESMG500ELL272MN30S
	3300	0.16	2500	18.0	35.5	7.5	0.8	565-1118-ND	2.58	20.14	159.60	ESMG500ELL332MMP1S
	3300	0.16	2420	20.0	35.0	10.0	1.0	565-1119-ND	3.47	28.00	218.40	ESMG500ELL332MN35S
	3300	0.16	2420	22.0	30.0	10.0	1.0	565-1120-ND	3.35	27.00	210.60	ESMG500ELL332MP30S
	3900	0.16	2590	22.0	35.0	10.0	1.0	565-1121-ND	3.75	30.25	235.95	ESMG500ELL392MP35S
	4700	0.18	2960	22.0	40.0	10.0	1.0	565-1122-ND	4.19	33.75	263.25	ESMG500ELL472MP40S
	6800	0.22	3360	25.4	40.0	12.5	1.0	565-1123-ND	4.90	44.10	333.20	ESMG500ELL682MQ40S

(Continued)

SMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions – mm				Digi-Key	Pricing			United Chemi-Con
				øD	L	F	ød	Part No.	1	10	100	Part No.
63	10	0.09	65	5.0	11.0	2.0	0.5	565-1124-ND	.32	2.22	12.58	ESMG630ELL100ME11D
	33	0.09	140	6.3	11.0	2.5	0.5	565-1126-ND	.34	2.35	14.10	ESMG630ELL330MF11D
	47	0.09	170	6.3	11.0	2.5	0.5	565-1127-ND	.34	2.35	14.10	ESMG630ELL470MF11D
	100	0.09	300	10.0	12.5	5.0	0.6	565-1128-ND	.60	4.26	28.60	ESMG630ELL101MJC5S
	220	0.09	490	10.0	16.0	5.0	0.6	565-1129-ND	.71	5.04	33.83	ESMG630ELL221MJ16S
	330	0.09	710	10.0	20.0	5.0	0.6	565-1130-ND	.69	5.08	34.80	ESMG630ELL331MJ20S
	470	0.09	900	12.5	20.0	5.0	0.6	565-1131-ND	1.11	8.19	56.16	ESMG630ELL471MK20S
	820	0.09	1370	20.0	20.0	10.0	1.0	565-1132-ND	2.53	19.74	156.45	ESMG630ELL821MN20S
	1000	0.09	1300	16.0	25.0	7.5	0.8	565-1133-ND	1.77	13.36	96.98	ESMG630ELL102ML25S
	2200	0.11	2330	20.0	35.0	10.0	1.0	565-1136-ND	3.44	27.75	216.45	ESMG630ELL222MN35S
	2200	0.11	2190	22.0	30.0	10.0	1.0	565-1137-ND	3.60	29.00	226.20	ESMG630ELL222MP30S
	3300	0.13	2810	22.0	40.0	10.0	1.0	565-1138-ND	4.50	36.25	282.75	ESMG630ELL332MP40S
100	10	0.08	75	6.3	11.0	2.5	0.5	565-1148-ND	.30	2.05	12.30	ESMG101ELL100MF11D
	22	0.08	130	8.0	11.5	3.5	0.6	565-1149-ND	.46	3.20	19.20	ESMG101ELL220MHB5D
	47	0.08	230	10.0	12.5	5.0	0.6	565-1151-ND	.71	5.00	33.55	ESMG101ELL470MJC5S
	100	0.08	370	10.0	20.0	5.0	0.6	565-1152-ND	.72	5.29	36.24	ESMG101ELL101MJ20S
	330	0.08	760	12.5	25.0	5.0	0.6	565-1154-ND	1.19	8.99	65.25	ESMG101ELL331MK25S
	330	0.08	870	20.0	20.0	10.0	1.0	565-1155-ND	2.67	20.83	165.06	ESMG101ELL331MN20S
	470	0.08	1000	16.0	25.0	7.5	0.8	565-1156-ND	1.79	13.52	98.10	ESMG101ELL471ML25S
	1000	0.08	1380	18.0	40.0	7.5	0.8	565-1159-ND	2.52	19.66	155.82	ESMG101ELL102MM40S
	1000	0.08	1720	20.0	35.0	10.0	1.0	565-1160-ND	3.35	27.00	210.60	ESMG101ELL102MN35S
	1200	0.08	1980	22.0	40.0	10.0	1.0	565-1161-ND	3.75	30.25	235.95	ESMG101ELL122MP40S
	1800	0.08	2490	25.4	40.0	12.5	1.0	565-1162-ND	5.28	47.48	358.70	ESMG101ELL182MQ40S
160	4.7	0.20	48	6.3	11.0	2.5	0.5	565-1164-ND	.37	2.55	15.30	ESMG161ELL4R7MF11D
	100	0.20	430	12.5	25.0	5.0	0.6	565-1169-ND	1.33	10.04	72.90	ESMG161ELL101MK25S
	330	0.20	995	18.0	35.5	7.5	0.8	565-1172-ND	2.35	18.29	144.90	ESMG161ELL331MMP1S
	470	0.15	1340	20.0	40.0	10.0	1.0	565-1175-ND	4.15	33.50	261.30	ESMG161ELL471MN40S
	470	0.15	1340	22.0	35.0	10.0	1.0	565-1176-ND	4.28	34.50	269.10	ESMG161ELL471MP35S
200	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1180-ND	.42	2.99	20.08	ESMG201ELL4R7MHB5D
	10	0.20	94	10.0	12.5	5.0	0.6	565-1181-ND	.67	4.97	34.08	ESMG201ELL100MJC5S
	33	0.20	205	10.0	20.0	5.0	0.6	565-1183-ND	.93	6.83	46.80	ESMG201ELL330MJ20S
	100	0.20	475	16.0	25.0	7.5	0.8	565-1185-ND	1.82	13.76	99.90	ESMG201ELL101ML25S
	100	0.15	460	20.0	20.0	10.0	1.0	565-1186-ND	2.71	21.15	167.58	ESMG201ELL101MN20S
	180	0.15	660	20.0	25.0	10.0	1.0	565-1187-ND	3.32	25.86	204.96	ESMG201ELL181MN25S
	270	0.15	830	20.0	30.0	10.0	1.0	565-1190-ND	3.41	27.50	214.50	ESMG201ELL271MN30S
	330	0.15	1070	20.0	35.0	10.0	1.0	565-1191-ND	3.75	30.25	235.95	ESMG201ELL331MN35S
	390	0.15	1190	20.0	40.0	10.0	1.0	565-1193-ND	4.12	33.25	259.35	ESMG201ELL391MN40S
	470	0.15	1350	22.0	40.0	10.0	1.0	565-1195-ND	3.78	33.98	256.70	ESMG201ELL471MP40S
	560	0.15	1430	22.0	40.0	10.0	1.0	565-1196-ND	4.25	38.25	289.00	ESMG201ELL561MP40S
	680	0.15	1620	25.4	40.0	12.5	1.0	565-1197-ND	5.48	49.28	372.30	ESMG201ELL681MQ40S
250	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1200-ND	.61	4.35	29.15	ESMG251ELL4R7MHB5D
	10	0.20	105	10.0	16.0	5.0	0.6	565-1201-ND	.74	5.25	35.20	ESMG251ELL100MJ16S
	22	0.20	170	10.0	20.0	5.0	0.6	565-1202-ND	.76	5.57	38.16	ESMG251ELL220MJ20S
	82	0.15	420	20.0	20.0	10.0	1.0	565-1205-ND	2.86	22.31	176.82	ESMG251ELL820MN20S
	100	0.20	515	16.0	31.5	7.5	0.8	565-1206-ND	2.22	17.30	137.13	ESMG251ELL101MLN3S
	120	0.15	530	20.0	25.0	10.0	1.0	565-1207-ND	3.32	25.86	204.96	ESMG251ELL121MN25S
	220	0.20	825	18.0	40.0	7.5	0.8	565-1209-ND	2.94	22.92	181.65	ESMG251ELL221MM40S
	220	0.15	780	20.0	35.0	10.0	1.0	565-1210-ND	4.12	33.25	259.35	ESMG251ELL221MN35S
	330	0.15	1060	22.0	40.0	10.0	1.0	565-1214-ND	3.95	35.55	268.60	ESMG251ELL331MP40S
350	3.3	0.24	46	8.0	11.5	3.5	0.6	565-1219-ND	.48	3.40	22.83	ESMG351ELL3R3MHB5D
	33	0.24	275	16.0	25.0	7.5	0.8	565-1223-ND	1.89	14.32	103.95	ESMG351ELL330ML25S
	47	0.24	325	16.0	25.0	7.5	0.8	565-1224-ND	1.86	14.50	114.87	ESMG351ELL470ML25S
	220	0.15	890	25.4	40.0	12.5	1.0	565-1227-ND	5.30	47.70	360.40	ESMG351ELL221MQ40S
400	1.0	0.24	22	6.3	11.0	2.5	0.5	565-1228-ND	.42	2.95	17.70	ESMG401ELL1R0MF11D
	4.7	0.24	71	10.0	16.0	5.0	0.6	565-1230-ND	.78	5.74	39.36	ESMG401ELL4R7MJ16S
	10	0.24	115	10.0	20.0	5.0	0.6	565-1231-ND	.97	7.18	49.20	ESMG401ELL100MJ20S
	22	0.24	205	12.5	25.0	5.0	0.6	565-1232-ND	1.38	10.42	75.60	ESMG401ELL220MK25S
	33	0.24	275	16.0	25.0	7.5	0.8	565-1233-ND	1.94	14.69	106.65	ESMG401ELL330ML25S
	47	0.24	350	16.0	31.5	7.5	0.8	565-1235-ND	2.17	16.88	133.77	ESMG401ELL470MLN3S
	68	0.15	420	20.0	30.0	10.0	1.0	565-1237-ND	4.00	32.25	251.55	ESMG401ELL680MN30S
	100	0.15	520	20.0	35.0	10.0	1.0	565-1238-ND	4.31	34.75	271.05	ESMG401ELL101MN35S
	120	0.15	580	22.0	35.0	10.0	1.0	565-1241-ND	4.31	34.75	271.05	ESMG401ELL121MP35S
	180	0.15	790	25.4	40.0	12.5	1.0	565-1242-ND	5.48	49.28	372.30	ESMG401ELL181MQ40S
450	0.47	0.24	13	10.0	12.5	5.0	0.6	565-1243-ND	.75	5.50	37.68	ESMG451ELLR47MJC5S
	1.0	0.24	19	10.0	12.5	5.0	0.6	565-1244-ND	.73	5.39	36.96	ESMG451ELL1R0MJC5S
	2.2	0.24	32	10.0	12.5	5.0	0.6	565-1245-ND	.72	5.32	36.48	ESMG451ELL2R2MJC5S
	22	0.24	165	16.0	25.0	7.5	0.8	565-1249-ND	1.88	14.23	103.28	ESMG451ELL220ML25S
	22	0.20	180	20.0	20.0	10.0	1.0	565-1250-ND	2.94	22.92	181.65	ESMG451ELL220MN20S
	47	0.24	265	16.0	35.5	7.5	0.8	565-1253-ND	2.60	20.30	160.86	ESMG451ELL470MLP1S
	47	0.20	290	20.0	25.0	10.0	1.0	565-1254-ND	3.32	26.75	208.65	ESMG451ELL470MN25S
	68	0.20	370	20.0	35.0	10.0	1.0	565-1256-ND	4.25	34.25	267.15	ESMG451ELL680MN35S
	68	0.20	370	22.0	30.0	10.0	1.0	565-1257-ND	4.15	33.50	261.30	ESMG451ELL680MP30S
	100	0.20	470	22.0	40.0	10.0	1.0	565-1260-ND	5.10	45.90	346.80	ESMG451ELL101MP40S
	120	0.20	520	25.4	40.0	12.5	1.0	565-1261-ND	5.50	49.50	374.00	ESMG451ELL121MQ40S

KMG Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 105°C

Features: Miniature, General Purpose, Solvent Proof (except 350V ~ 450V), 105°C Maximum Temperature (1000 ~ 2000 Hour Life) **Specifications: • Operating Temperature:** -55°C ~ 105°C (6.3V ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V) **• Capacitance Tolerance:** ±20%

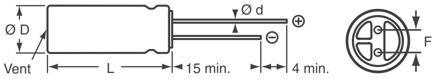

Leakage Current @ 20°C:

DC Voltage	Test Time	Leakage Current (µA)	
6.3V ~ 100V	After 1 Minute	I = 0.03CV or 4µA,whichever is greater	
160V ~ 450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40 maximum	CV>1,000: I=0.04CV +100 maximum
	After 5 Minutes	CV≤ 1,000: I=0.03CV +15 maximum	CV>1,000: I=0.02CV +25 maximum

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions – mm				Digi-Key	Pricing			United Chemi-Con
				øD	L	F	ød	Part No.	1	10	100	Part No.
6.3	470	0.34	230	6.3	11	2.5	0.5	565-1266-ND	.32	2.25	13.50	EKMG6R3ELL471MF11D
	1000	0.34	380	8	11.5	3.5	0.6	565-1267-ND	.42	2.99	20.08	EKMG6R3ELL102MHB5D
	2200	0.36	710	10	20	5.0	0.6	565-1268-ND	.73	5.36	36.72	EKMG6R3ELL222MJ20S

(Continued)

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
6.3	3300	0.38	840	10	20	5.0	0.6	565-1269-ND	.82	6.02	41.28	EKMG6R3ELL332MJ20S
	4700	0.40	1090	12.5	20	5.0	0.6	565-1270-ND	.90	6.65	45.60	EKMG6R3ELL472MK20S
	6800	0.44	1350	12.5	25	5.0	0.6	565-1271-ND	1.14	8.40	57.60	EKMG6R3ELL682MK25S
	10000	0.52	1650	16	25	7.5	0.8	565-1272-ND	1.66	12.59	91.35	EKMG6R3ELL103ML25S
10	100	0.24	100	5	11	2.0	0.5	565-1277-ND	.31	2.10	11.90	EKMG100ELL101ME11D
	220	0.24	170	6.3	11	2.5	0.5	565-1278-ND	.34	2.35	14.10	EKMG100ELL221MF11D
	330	0.24	200	6.3	11	2.5	0.5	565-1279-ND	.34	2.35	14.10	EKMG100ELL331MF11D
	470	0.24	250	8	11.5	3.5	0.6	565-1280-ND	.42	2.99	20.08	EKMG100ELL471MHB5D
	1000	0.24	460	10	12.5	5.0	0.6	565-1281-ND	.63	4.47	29.98	EKMG100ELL102MJC5S
	2200	0.26	760	10	20	5.0	0.6	565-1282-ND	.70	5.15	35.28	EKMG100ELL222MJ20S
	3300	0.28	1000	12.5	20	5.0	0.6	565-1283-ND	.96	7.07	48.48	EKMG100ELL332MK20S
	4700	0.30	1260	12.5	25	5.0	0.6	565-1284-ND	1.04	7.84	56.93	EKMG100ELL472MK25S
	10000	0.42	1890	16	35.5	7.5	0.8	565-1286-ND	1.78	13.86	109.83	EKMG100ELL103MLP1S
	15000	0.52	2180	18	35.5	7.5	0.8	565-1287-ND	2.29	17.86	141.54	EKMG100ELL153MMP1S
16	10	0.20	34	5	11	2.0	0.5	565-1288-ND	.30	2.04	11.56	EKMG160ELL100ME11D
	22	0.20	51	5	11	2.0	0.5	565-1289-ND	.31	2.10	11.90	EKMG160ELL220ME11D
	33	0.20	63	5	11	2.0	0.5	565-1290-ND	.30	2.04	11.56	EKMG160ELL330ME11D
	47	0.20	75	5	11	2.0	0.5	565-1291-ND	.30	2.04	11.56	EKMG160ELL470ME11D
	100	0.20	110	5	11	2.0	0.5	565-1292-ND	.30	2.04	11.56	EKMG160ELL101ME11D
	220	0.20	180	6.3	11	2.5	0.5	565-1293-ND	.32	2.25	13.50	EKMG160ELL221MF11D
	330	0.20	260	8	11.5	3.5	0.6	565-1294-ND	.41	2.87	19.25	EKMG160ELL331MHB5D
	470	0.20	310	8	11.5	3.5	0.6	565-1295-ND	.41	2.87	19.25	EKMG160ELL471MHB5D
	1000	0.20	560	10	16	5.0	0.6	565-1296-ND	.60	4.26	28.60	EKMG160ELL102MJ16S
	2200	0.22	920	12.5	20	5.0	0.6	565-1297-ND	.98	7.25	49.68	EKMG160ELL222MK20S
	3300	0.24	1170	12.5	25	5.0	0.6	565-1298-ND	1.07	8.09	58.73	EKMG160ELL332MK25S
	4700	0.26	1480	16	25	7.5	0.8	565-1299-ND	1.52	11.50	83.48	EKMG160ELL472ML25S
	6800	0.30	1780	16	31.5	7.5	0.8	565-1300-ND	1.99	15.04	109.13	EKMG160ELL682MLN3S
	10000	0.38	2060	18	35.5	7.5	0.8	565-1301-ND	2.23	17.41	137.97	EKMG160ELL103MMP1S
25	4.7	0.16	25	5	11	2.0	0.5	565-1302-ND	.31	2.10	11.90	EKMG250ELL4R7ME11D
	10	0.16	36	5	11	2.0	0.5	565-1303-ND	.31	2.10	11.90	EKMG250ELL100ME11D
	22	0.16	54	5	11	2.0	0.5	565-1304-ND	.32	2.16	12.24	EKMG250ELL220ME11D
	47	0.16	80	5	11	2.0	0.5	565-1306-ND	.32	2.16	12.24	EKMG250ELL470ME11D
	100	0.16	130	6.3	11	2.5	0.5	565-1307-ND	.31	2.15	12.90	EKMG250ELL101MF11D
	220	0.16	230	8	11.5	3.5	0.6	565-1308-ND	.49	3.40	20.40	EKMG250ELL221MHB5D
	330	0.16	310	8	11.5	3.5	0.6	565-1309-ND	.41	2.91	19.53	EKMG250ELL331MHB5D
	470	0.16	380	10	12.5	5.0	0.6	565-1310-ND	.57	4.06	27.23	EKMG250ELL471MJC5S
	1000	0.16	680	10	20	5.0	0.6	565-1311-ND	.63	4.66	31.92	EKMG250ELL102MJ20S
	2200	0.18	1090	12.5	25	5.0	0.6	565-1312-ND	1.07	8.12	58.95	EKMG250ELL222MK25S
	3300	0.20	1400	16	25	7.5	0.8	565-1313-ND	1.63	12.34	89.55	EKMG250ELL332ML25S
	4700	0.22	1710	16	31.5	7.5	0.8	565-1314-ND	1.98	15.00	108.90	EKMG250ELL472MLN3S
	6800	0.26	2040	18	35.5	7.5	0.8	565-1315-ND	2.48	19.29	152.88	EKMG250ELL682MMP1S
35	10	0.14	41	5	11	2.0	0.5	565-1317-ND	.29	1.98	11.22	EKMG350ELL100ME11D
	22	0.14	61	5	11	2.0	0.5	565-1318-ND	.29	1.98	11.22	EKMG350ELL220ME11D
	47	0.14	90	5	11	2.0	0.5	565-1320-ND	.29	1.98	11.22	EKMG350ELL470ME11D
	100	0.14	150	6.3	11	2.5	0.5	565-1321-ND	.35	2.40	14.40	EKMG350ELL101MF11D
	220	0.14	270	8	11.5	3.5	0.6	565-1322-ND	.45	3.20	21.45	EKMG350ELL221MHB5D
	330	0.14	350	10	12.5	5.0	0.6	565-1323-ND	.63	4.47	29.98	EKMG350ELL331MJC5S
	470	0.14	460	10	16	5.0	0.6	565-1324-ND	.70	4.96	33.28	EKMG350ELL471MJ16S
	1000	0.14	810	12.5	20	5.0	0.6	565-1325-ND	1.00	7.39	50.64	EKMG350ELL102MK20S
	2200	0.16	1260	16	25	7.5	0.8	565-1326-ND	1.59	12.03	87.30	EKMG350ELL222ML25S
	4700	0.20	1910	18	35.5	7.5	0.8	565-1327-ND	2.53	19.69	156.03	EKMG350ELL472MMP1S
50	1.0	0.12	13	5	11	2.0	0.5	565-1332-ND	.28	1.92	10.88	EKMG500ELL1R0ME11D
	2.2	0.12	20	5	11	2.0	0.5	565-1333-ND	.29	1.98	11.22	EKMG500ELL2R2ME11D
	4.7	0.12	30	5	11	2.0	0.5	565-1335-ND	.28	1.92	10.88	EKMG500ELL4R7ME11D
	10	0.12	40	5	11	2.0	0.5	565-1336-ND	.28	1.92	10.88	EKMG500ELL100ME11D
	22	0.12	65	5	11	2.0	0.5	565-1337-ND	.29	1.98	11.22	EKMG500ELL220ME11D
	33	0.12	90	5	11	2.0	0.5	565-1338-ND	.29	1.98	11.22	EKMG500ELL330ME11D
	47	0.12	110	6.3	11	2.5	0.5	565-1339-ND	.32	2.20	13.20	EKMG500ELL470MF11D
	100	0.12	180	8	11.5	3.5	0.6	565-1340-ND	.43	3.03	20.35	EKMG500ELL101MHB5D
	220	0.12	300	10	12.5	5.0	0.6	565-1341-ND	.71	5.00	33.55	EKMG500ELL221MJC5S
	330	0.12	410	10	16	5.0	0.6	565-1342-ND	.66	4.87	33.36	EKMG500ELL331MJ16S
	470	0.12	530	10	20	5.0	0.6	565-1343-ND	.77	5.67	38.88	EKMG500ELL471MJ20S
	1000	0.12	950	12.5	25	5.0	0.6	565-1344-ND	1.16	8.77	63.68	EKMG500ELL102MK25S
	2200	0.14	1470	16	35.5	7.5	0.8	565-1345-ND	2.05	16.01	126.84	EKMG500ELL222MLP1S
	3300	0.16	1770	18	35.5	7.5	0.8	565-1346-ND	2.78	21.68	171.78	EKMG500ELL332MMP1S
63	10	0.10	46	5	11	2.0	0.5	565-1347-ND	.31	2.10	11.90	EKMG630ELL100ME11D
	22	0.10	71	5	11	2.0	0.5	565-1348-ND	.32	2.16	12.24	EKMG630ELL220ME11D
	33	0.10	100	6.3	11	2.5	0.5	565-1349-ND	.32	2.20	13.20	EKMG630ELL330MF11D
	47	0.10	120	6.3	11	2.5	0.5	565-1350-ND	.32	2.25	13.50	EKMG630ELL470MF11D
	100	0.10	215	10	12.5	5.0	0.6	565-1351-ND	.64	4.51	30.25	EKMG630ELL101MJC5S
	220	0.10	335	10	16	5.0	0.6	565-1352-ND	.62	4.55	31.20	EKMG630ELL221MJ16S
	330	0.10	510	10	20	5.0	0.6	565-1353-ND	.73	5.36	36.72	EKMG630ELL331MJ20S
	470	0.10	640	12.5	20	5.0	0.6	565-1354-ND	1.08	7.98	54.72	EKMG630ELL471MK20S
	1000	0.10	930	16	25	7.5	0.8	565-1355-ND	1.82	13.80	100.13	EKMG630ELL102ML25S
100	1.0	0.08	15	5	11	2.0	0.5	565-1360-ND	.29	1.98	11.22	EKMG101ELL1R0ME11D
	4.7	0.08	32	5	11	2.0	0.5	565-1363-ND	.29	1.98	11.22	EKMG101ELL4R7ME11D
	10	0.08	54	6.3	11	2.5	0.5	565-1364-ND	.37	2.60	15.60	EKMG101ELL100MF11D
	22	0.08	93	8	11.5	3.5	0.6	565-1365-ND	.48	3.36	22.55	EKMG101ELL220MHB5D
	33	0.08	130	8	11.5	3.5	0.6	565-1366-ND	.49	3.44	23.10	EKMG101ELL330MHB5D
	47	0.08	165	10	12.5	5.0	0.6	565-1367-ND	.67	4.76	31.90	EKMG101ELL470MJC5S
	100	0.08	265	10	20	5.0	0.6	565-1368-ND	.71	5.25	36.00	EKMG101ELL101MJ20S
	220	0.08	440	12.5	25	5.0	0.6	565-1369-ND	1.16	8.80	63.90	EKMG101ELL221MK25S
	330	0.08	540	16	25	7.5	0.8	565-1370-ND	1.61	12.15	88.20	EKMG101ELL331ML25S
	470	0.08	715	16	31.5	7.5	0.8	565-1371-ND	2.01	15.22	110.48	EKMG101ELL471MLN3S
	1000	0.08	985	18	40	7.5	0.8	565-1372-ND	3.06	23.82	188.79	EKMG101ELL102MM40S
160	3.3	0.20	28	6.3	11	2.5	0.5	565-1373-ND	.42	2.95	17.70	EKMG161ELL3R3MF11D
	4.7	0.20	34	6.3	11	2.5	0.5	565-1374-ND	.42	2.95	17.70	EKMG161ELL4R7MF11D
	10	0.20	67	10	12.5	5.0	0.6	565-1375-ND	.73	5.13	34.38	EKMG161ELL100MJC5S
	22	0.20	120	10	20	5.0	0.6	565-1376-ND	.78	5.74	39.36	EKMG161ELL220MJ20S
	47	0.20	195	12.5	20	5.0	0.6	565-1378-ND	1.14	8.37	57.36	EKMG161ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1379-ND	1.62	12.21	88.65	EKMG161ELL101ML25S
	220	0.20	540	16	31.5	7.5	0.8	565-1380-ND	1.79	13.94	110.46	EKMG161ELL221MLN3S
200	3.3	0.20	28	6.3	11	2.5	0.5	565-1382-ND	.42	2.95	17.70	EKMG201ELL3R3MF11D
	4.7	0.20	39	8	11.5	5.0	0.6	565-1383-ND	.52	3.65	24.48	EKMG201ELL4R7MHB5D
	10	0.20	74	10	16	5.0	0.6	565-1384-ND	.68	5.04	34.56	EKMG201ELL100MJ16S
	22	0.20	120	10	20	5.0	0.6	565-1385-ND	.78	5.74	39.36	EKMG201ELL220MJ20S
	33	0.20	160	12.5	20	5.0	0.6	565-1386-ND	1.16	8.77	63.68	EKMG201ELL330MK20S
	47	0.20	195	12.5	20	5.0	0.6	565-1387-ND	1.04	7.87	57.15	EKMG201ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1388-ND	1.78	13.42	97.43	EKMG201ELL101ML25S
	220	0.20	575	18	35.5	7.5	0.8	565-1389-ND	2.45	19.13	151.62	EKMG201ELL221MMP1S
250	2.2	0.20	23	6.3	11	2.5	0.5	565-1390-ND	.42	2.95	17.70	EKMG251ELL2R2MF11D
	4.7	0.20	39	8	11.5	3.5	0.6	565-1392-ND	.61	4.35	29.15	EKMG251ELL4R7MF11D
	10	0.20	74	10	16	5.0	0.6	565-1393-ND	.69	5.08	34.80	EKMG251ELL100MJ16S
	22	0.20	130	12.5	20	5.0	0.6	565-1394-ND	1.18	8.68	59.52	EKMG251ELL220MK20S

(Continued)

KMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
250	33	0.20	160	12.5	20	5.0	0.6	565-1395-ND	1.17	8.87	64.35	EKMG251ELL330MK20S
	47	0.20	210	12.5	25	5.0	0.6	565-1396-ND	1.43	10.79	78.30	EKMG251ELL470MK25S
	100	0.20	365	16	31.5	7.5	0.8	565-1397-ND	1.85	14.42	114.24	EKMG251ELL101MLN3S
	220	0.20	585	18	40	7.5	0.8	565-1398-ND	3.32	25.86	204.96	EKMG251ELL221MM40S
350	0.47	0.24	11	6.3	11	2.5	0.5	565-1399-ND	.43	3.03	20.35	EKMG351ELLR47MF11D
	1.0	0.24	15	6.3	11	2.5	0.5	565-1400-ND	.42	2.99	20.08	EKMG351ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1401-ND	.62	4.39	29.43	EKMG351ELL2R2MHB5D
	4.7	0.24	50	10	16	5.0	0.6	565-1403-ND	.83	6.13	42.00	EKMG351ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1404-ND	1.00	7.39	50.64	EKMG351ELL100MJ20S
	22	0.24	130	12.5	20	5.0	0.6	565-1405-ND	1.30	9.80	71.10	EKMG351ELL220MK20S
	47	0.24	230	16	25	7.5	0.8	565-1407-ND	2.00	15.56	123.27	EKMG351ELL470ML25S
400	1.0	0.24	15	6.3	11	2.5	0.5	565-1408-ND	.42	2.99	20.08	EKMG401ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1409-ND	.63	4.47	29.98	EKMG401ELL2R2MHB5D
	3.3	0.24	38	10	12.5	5.0	0.6	565-1410-ND	.73	5.36	36.72	EKMG401ELL3R3MJC5S
	4.7	0.24	50	10	16	5.0	0.6	565-1411-ND	.79	5.85	40.08	EKMG401ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1412-ND	.95	7.00	48.00	EKMG401ELL100MJ20S
	22	0.24	145	12.5	25	5.0	0.6	565-1413-ND	1.32	9.95	72.23	EKMG401ELL220MK25S
	33	0.24	195	16	25	7.5	0.8	565-1414-ND	1.89	14.29	103.73	EKMG401ELL330ML25S
	47	0.24	250	16	31.5	7.5	0.8	565-1415-ND	1.85	14.39	114.03	EKMG401ELL470MLN3S
	100	0.24	350	16	40	7.5	0.8	565-1416-ND	3.22	25.07	198.66	EKMG401ELL101ML40S
450	1.0	0.24	13	10	12.5	5.0	0.6	565-1417-ND	.62	4.55	31.20	EKMG451ELL1R0MJC5S
	2.2	0.24	23	10	12.5	5.0	0.6	565-1418-ND	.72	5.08	34.10	EKMG451ELL2R2MJC5S
	4.7	0.24	40	10	20	5.0	0.6	565-1420-ND	.77	5.71	39.12	EKMG451ELL4R7MJ20S
	10	0.24	65	12.5	20	5.0	0.6	565-1421-ND	1.30	9.80	71.10	EKMG451ELL100MK20S
	22	0.24	115	16	25	7.5	0.8	565-1422-ND	1.80	14.02	111.09	EKMG451ELL220ML25S
	33	0.24	155	16	31.5	7.5	0.8	565-1423-ND	2.44	19.05	150.99	EKMG451ELL330MLN3S

KXG Series Aluminum Electrolytic Capacitors (Radial Lead) Long Life High Ripple Current 105°C

Features: Miniature, Long Life (8 ~ 10K Hours), For Electronic Ballasts, 105°C Maximum Temperature
Specifications: • **Operating Temperature:** -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V) • **Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

CV Product	After 1 Minute	After 5 Minutes
CV ≤ 1,000	I = 0.1CV +40µA	I = 0.03CV +15µA
CV > 1,000	I = 0.04CV +100µA	I=0.02CV +25µA

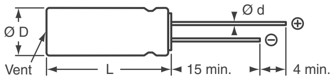

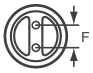

Rated W.V. (VDC)	Capacitance (µF)	Tan δ	Rated Ripple Current (mA RMS) @105°C		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			120Hz	100kHz	øD	L	F	ød		1	10	100	
160	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1424-ND	.65	4.80	32.88	EKXG161ELL220MJ20S
	33	0.20	250	625	10.0	20.0	5.0	0.6	565-1425-ND	.66	4.87	33.36	EKXG161ELL330MJ20S
	47	0.20	300	750	10.0	20.0	5.0	0.6	565-1426-ND	.80	5.88	40.32	EKXG161ELL470MJ20S
	100	0.20	620	1395	12.5	25.0	5.0	0.6	565-1427-ND	1.18	8.96	65.03	EKXG161ELL101MK25S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1428-ND	1.28	9.70	70.43	EKXG161ELL101ML20S
	150	0.20	770	1735	16.0	20.0	7.5	0.8	565-1429-ND	1.42	10.73	77.85	EKXG161ELL151ML20S
	220	0.20	1020	2295	16.0	25.0	7.5	0.8	565-1430-ND	1.79	13.52	98.10	EKXG161ELL221ML25S
	330	0.20	1390	3130	18.0	31.5	7.5	0.8	565-1431-ND	2.23	17.36	137.55	EKXG161ELL331MMN3S
200	10	0.20	125	315	10.0	16.0	5.0	0.6	565-1432-ND	.66	4.67	31.35	EKXG201ELL100MJ16S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1433-ND	.64	4.73	32.40	EKXG201ELL220MJ20S
	33	0.20	260	650	10.0	20.0	5.0	0.6	565-1434-ND	.70	5.15	35.28	EKXG201ELL330MJ20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1435-ND	1.06	7.84	53.76	EKXG201ELL470MK20S
	68	0.20	470	1175	12.5	20.0	5.0	0.6	565-1436-ND	1.13	8.30	56.88	EKXG201ELL680MK20S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1437-ND	1.43	10.82	78.53	EKXG201ELL101ML20S
	150	0.20	840	1890	16.0	25.0	7.5	0.8	565-1438-ND	1.75	13.24	96.08	EKXG201ELL151ML25S
	220	0.20	1050	2365	18.0	25.0	7.5	0.8	565-1439-ND	1.98	15.40	122.01	EKXG201ELL221MM25S
	330	0.20	1430	3220	18.0	35.5	7.5	0.8	565-1440-ND	2.85	22.23	176.19	EKXG201ELL331MMP1S
250	10	0.20	140	350	10.0	20.0	5.0	0.6	565-1441-ND	.68	5.01	34.32	EKXG251ELL100MJ20S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1442-ND	.85	6.23	42.72	EKXG251ELL220MJ20S
	33	0.20	320	800	12.5	20.0	5.0	0.6	565-1443-ND	1.12	8.26	56.64	EKXG251ELL330MK20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1444-ND	1.16	8.58	58.80	EKXG251ELL470MK20S
	68	0.20	520	1300	16.0	20.0	7.5	0.8	565-1445-ND	1.50	11.35	82.35	EKXG251ELL680ML20S
	82	0.20	550	1375	16.0	20.0	7.5	0.8	565-1446-ND	1.59	12.03	87.30	EKXG251ELL820ML20S
	100	0.20	680	1530	16.0	25.0	7.5	0.8	565-1447-ND	1.77	13.39	97.20	EKXG251ELL101ML25S
	150	0.20	860	1935	18.0	25.0	7.5	0.8	565-1448-ND	2.09	16.27	128.94	EKXG251ELL151MM25S
350	6.8	0.24	110	275	10	16	5.0	0.6	565-1449-ND	.71	5.25	36.00	EKXG351ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1450-ND	.85	6.27	42.96	EKXG351ELL100MJ20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1451-ND	1.08	8.15	59.18	EKXG351ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1452-ND	1.51	11.41	82.80	EKXG351ELL330ML20S
	47	0.24	430	1075	16	20	7.5	0.8	565-1453-ND	1.64	12.43	90.23	EKXG351ELL470ML20S
	68	0.24	560	1400	16	25	7.5	0.8	565-1454-ND	1.72	13.38	106.05	EKXG351ELL680ML25S
	68	0.24	550	1375	18	20	7.5	0.8	565-1455-ND	1.84	14.31	113.40	EKXG351ELL680MM20S
	82	0.24	610	1525	18	25	7.5	0.8	565-1456-ND	2.05	16.01	126.84	EKXG351ELL820MM25S
	100	0.24	700	1575	18	25	7.5	0.8	565-1457-ND	2.44	19.05	150.99	EKXG351ELL101MM25S
	120	0.24	830	1865	18	31.5	7.5	0.8	565-1458-ND	2.77	21.62	171.36	EKXG351ELL121MMN3S
	150	0.24	960	2160	18	35.5	7.5	0.8	565-1459-ND	3.22	26.00	202.80	EKXG351ELL151MMP1S
400	6.8	0.24	110	275	10	16	5.0	0.6	565-1460-ND	.75	5.53	37.92	EKXG401ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1461-ND	.90	6.62	45.36	EKXG401ELL100MJ20S
	15	0.24	220	550	12.5	20	5.0	0.6	565-1462-ND	1.07	8.06	58.50	EKXG401ELL150MK20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1463-ND	1.05	7.94	57.60	EKXG401ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1464-ND	1.56	11.81	85.73	EKXG401ELL330ML20S
	47	0.24	470	1175	16	25	7.5	0.8	565-1465-ND	1.82	14.15	112.14	EKXG401ELL470ML25S
	47	0.24	450	1125	18	20	7.5	0.8	565-1466-ND	1.98	14.97	108.68	EKXG401ELL470MM20S
	68	0.24	585	1465	18	25	7.5	0.8	565-1467-ND	2.14	16.64	131.88	EKXG401ELL680MM25S
	82	0.24	610	1525	18	25	7.5	0.8	565-1468-ND	2.41	18.76	148.68	EKXG401ELL820MM25S
	100	0.24	765	1720	18	31.5	7.5	0.8	565-1469-ND	2.84	22.13	175.35	EKXG401ELL101MMN3S
	120	0.24	865	1945	18	35.5	7.5	0.8	565-1470-ND	3.32	25.84	204.75	EKXG401ELL121MMP1S
	150	0.24	985	2215	18	40	7.5	0.8	565-1471-ND	3.50	28.25	220.35	EKXG401ELL151MM40S
450	6.8	0.24	110	275	10	20	5.0	0.6	565-1472-ND	.88	6.51	44.64	EKXG451ELL6R8MJ20S
	10	0.24	180	450	12.5	20	5.0	0.6	565-1473-ND	1.05	7.94	57.60	EKXG451ELL100MK20S
	15	0.24	240	600	12.5	25	5.0	0.6	565-1474-ND	1.32	9.98	72.45	EKXG451ELL150MK25S
	22	0.24	290	725	16	20	7.5	0.8	565-1475-ND	1.68	12.68	92.03	EKXG451ELL220ML20S
	33	0.24	390	975	16	25	7.5	0.8	565-1476-ND	1.74	13.54	107.31	EKXG451ELL330ML25S
	33	0.24	380	950	18	20	7.5	0.8	565-1477-ND	1.96	14.85	107.78	EKXG451ELL330MM20S
	47	0.24	480	1200	18	25	7.5	0.8	565-1478-ND	2.09	16.32	129.36	EKXG451ELL470MM25S
	68	0.24	630	1575	18	31.5	7.5	0.8	565-1479-ND	2.68	20.91	165.69	EKXG451ELL680MMN3S
	82	0.24	715	1785	18	35.5	7.5	0.8	565-1480-ND	3.03	23.59	186.90	EKXG451ELL820MMP1S
	100	0.24	800	1800	18	40	7.5	0.8	565-1481-ND	3.22	26.00	202.80	EKXG451ELL101MM40S

UNITED CHEMI-CON

KY Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

Low Impedance Long Life 105°C

Features: Miniature, Low Impedance, Long Life (4-10K Hours), 105°C Maximum Temperature
Specifications: • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10

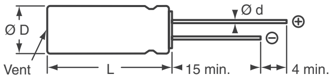

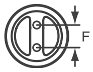

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	330	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1483-ND	.26	1.80	10.20	EKY-6R3ELL331MF11D
	680	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1484-ND	.32	2.25	13.50	EKY-6R3ELL681MHB5D
	820	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1485-ND	.47	3.25	19.50	EKY-6R3ELL821MJC5S
	1000	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1486-ND	.41	2.85	17.10	EKY-6R3ELL102MH15D
	1200	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1488-ND	.45	3.15	18.90	EKY-6R3ELL122MH20D
	1500	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1489-ND	.48	3.40	22.83	EKY-6R3ELL152MJ20S
	1800	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1490-ND	.70	4.96	33.28	EKY-6R3ELL182MK15S
	2200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1491-ND	.61	4.31	28.88	EKY-6R3ELL222MJ25S
	2700	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1492-ND	.66	4.63	31.08	EKY-6R3ELL272MJ30S
	3300	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1493-ND	.64	4.73	32.40	EKY-6R3ELL332MK20S
	4700	2650	0.024	0.078	12.5	30.5	5.0	0.6	565-1495-ND	.91	6.69	45.84	EKY-6R3ELL472MK30S
	5600	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1496-ND	.97	7.18	49.20	EKY-6R3ELL562MK35S
	10000	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1498-ND	1.38	10.45	75.83	EKY-6R3ELL103MM25S
10	100	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1499-ND	.32	2.22	12.58	EKY-100ELL101ME11D
	220	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1500-ND	.28	1.92	10.88	EKY-100ELL221MF11D
	470	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1501-ND	.34	2.35	14.10	EKY-100ELL471MHB5D
	680	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1502-ND	.49	3.40	20.40	EKY-100ELL681MJC5S
	680	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1503-ND	.42	2.90	17.40	EKY-100ELL681MH15D
	1000	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1504-ND	.44	3.12	20.90	EKY-100ELL102MJ16S
	1000	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1505-ND	.48	3.35	20.10	EKY-100ELL102MH20D
	1200	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1506-ND	.50	3.57	23.93	EKY-100ELL122MJ20S
	1500	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1507-ND	.63	4.47	29.98	EKY-100ELL152MJ25S
	1500	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1508-ND	.72	5.08	34.10	EKY-100ELL152MK15S
	2200	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1509-ND	.71	5.00	33.55	EKY-100ELL222MJ30S
	2200	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1510-ND	.63	4.66	31.92	EKY-100ELL222MK20S
	2700	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1511-ND	1.08	7.95	54.48	EKY-100ELL272MM15S
	3300	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1512-ND	.81	5.95	40.80	EKY-100ELL332MK25S
	3900	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1513-ND	.88	6.51	44.64	EKY-100ELL392MK30S
	3900	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1514-ND	1.02	7.49	51.36	EKY-100ELL392ML20S
	4700	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1515-ND	.98	7.21	49.44	EKY-100ELL472MK35S
	6800	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1518-ND	1.19	8.99	65.25	EKY-100ELL682MLN3S
16	56	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1520-ND	.24	1.62	9.18	EKY-160ELL560ME11D
	120	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1521-ND	.27	1.86	10.54	EKY-160ELL121MF11D
	330	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1522-ND	.32	2.25	13.50	EKY-160ELL331MHB5D
	470	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1523-ND	.50	3.45	20.70	EKY-160ELL471MJC5S
	470	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1524-ND	.40	2.80	16.80	EKY-160ELL471MJ15D
	680	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1525-ND	.45	3.16	21.18	EKY-160ELL681MJ16S
	680	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1526-ND	.45	3.15	18.90	EKY-160ELL681MH20D
	1000	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1527-ND	.52	3.69	24.75	EKY-160ELL102MJ20S
	1000	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1528-ND	.72	5.08	34.10	EKY-160ELL102MK15S
	1200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1529-ND	.65	4.59	30.80	EKY-160ELL122MJ25S
	1500	1910	0.031	012	10.0	30.0	5.0	0.6	565-1530-ND	.70	4.96	33.28	EKY-160ELL152MJ30S
	1500	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1531-ND	.65	4.80	32.88	EKY-160ELL152MK20S
	2200	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1532-ND	.81	5.95	40.80	EKY-160ELL222MK25S
	3300	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1535-ND	1.01	7.42	50.88	EKY-160ELL332MK35S
	3900	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1536-ND	1.16	8.58	58.80	EKY-160ELL392MK40S
	4700	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1538-ND	1.30	9.86	71.55	EKY-160ELL472MLN3S
	4700	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1539-ND	1.32	9.95	72.23	EKY-160ELL472MM25S
	5600	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1541-ND	1.61	12.15	88.20	EKY-160ELL562MMN3S
	6800	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1542-ND	1.53	11.59	84.15	EKY-160ELL682ML40S
	8200	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1543-ND	1.80	13.58	98.55	EKY-160ELL822MMP1S
25	47	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1544-ND	.26	1.80	9.12	EKY-250ELL470ME11D
	100	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1545-ND	.29	1.98	11.22	EKY-250ELL101MF11D
	220	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1546-ND	.33	2.30	13.80	EKY-250ELL221MHB5D
	330	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1547-ND	.41	2.91	19.53	EKY-250ELL331MJC5S
	330	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1548-ND	.42	2.90	17.40	EKY-250ELL331MH15D
	470	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1549-ND	.45	3.16	21.18	EKY-250ELL471MJ16S
	470	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1550-ND	.48	3.30	19.80	EKY-250ELL471MH20D
	680	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1551-ND	.52	3.69	24.75	EKY-250ELL681MJ20S
	680	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1552-ND	.73	5.17	34.65	EKY-250ELL681MK15S
	820	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1553-ND	.65	4.59	30.80	EKY-250ELL821MJ25S
	1000	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1554-ND	.71	5.00	33.55	EKY-250ELL102MJ30S
	1000	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1555-ND	.67	4.94	33.84	EKY-250ELL102MK20S
	1200	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1556-ND	1.08	7.95	54.48	EKY-250ELL122MM15S
	1500	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1557-ND	.83	6.09	41.76	EKY-250ELL152MK25S
	1800	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1558-ND	.91	6.72	46.08	EKY-250ELL182MK30S
	1800	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1559-ND	1.04	7.63	52.32	EKY-250ELL182ML20S
	2200	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1560-ND	1.04	7.67	52.56	EKY-250ELL222MK35S
	2200	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1561-ND	1.12	8.46	61.43	EKY-250ELL222MM20S
	2700	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1562-ND	1.17	8.65	59.28	EKY-250ELL272MK40S
	2700	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1563-ND	1.07	8.06	58.50	EKY-250ELL272ML25S
	3300	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1564-ND	1.31	9.89	71.78	EKY-250ELL332MLN3S
	3300	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1565-ND	1.36	10.29	74.70	EKY-250ELL332MM25S
	3900	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1566-ND	1.59	12.00	87.08	EKY-250ELL392MMN3S
	4700	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1567-ND	1.81	13.70	99.45	EKY-250ELL472MMP1S
	5600	4280	0.012	0.032	18.0	40.0	7.5	0.8	565-1568-ND	1.89	14.32	103.95	EKY-250ELL562MM40S

(Continued)

KY Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
35	33	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1569-ND	.26	1.80	9.12	EKY-350ELL330ME11D
	56	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1570-ND	.30	2.04	11.56	EKY-350ELL560MF11D
	150	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1571-ND	.36	2.50	15.00	EKY-350ELL151MHB5D
	220	865	0.080	0.32	10	12.5	5.0	0.6	565-1572-ND	.50	3.45	20.70	EKY-350ELL221MJC5S
	220	840	0.087	0.35	8	15	3.5	0.6	565-1573-ND	.45	3.15	18.90	EKY-350ELL221MH15D
	270	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1574-ND	.42	2.95	19.80	EKY-350ELL271MH20D
	330	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1575-ND	.45	3.16	21.18	EKY-350ELL331MJ16S
	470	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1576-ND	.52	3.69	24.75	EKY-350ELL471MJ20S
	470	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1577-ND	.72	5.08	34.10	EKY-350ELL471MK15S
	560	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1578-ND	.65	4.59	30.80	EKY-350ELL561MJ25S
	680	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1579-ND	.70	4.96	33.28	EKY-350ELL681MJ30S
	680	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1580-ND	.65	4.76	32.64	EKY-350ELL681MK20S
	1000	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1581-ND	.81	5.95	40.80	EKY-350ELL102MK25S
	1000	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1582-ND	1.12	8.26	56.64	EKY-350ELL102MM15S
	1200	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1583-ND	.91	6.69	45.84	EKY-350ELL122MK30S
	1200	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1584-ND	1.12	8.26	56.64	EKY-350ELL122ML20S
	1500	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1585-ND	1.01	7.46	51.12	EKY-350ELL152MK35S
	1800	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1586-ND	1.17	8.65	59.28	EKY-350ELL182MK40S
	1800	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1587-ND	1.11	8.40	60.98	EKY-350ELL182ML25S
	1800	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1588-ND	1.22	9.24	67.05	EKY-350ELL182MM20S
	2200	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1589-ND	1.37	10.32	74.93	EKY-350ELL222MLN3S
	2200	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1590-ND	1.49	11.25	81.68	EKY-350ELL222MM25S
	2700	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1591-ND	1.69	12.74	92.48	EKY-350ELL272MMN3S
	3300	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1592-ND	1.59	12.06	87.53	EKY-350ELL332ML40S
	3300	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1593-ND	1.84	13.89	100.80	EKY-350ELL332MMP1S
	3900	4280	0.012	0.032	18.0	40.0	7.5	0.8	565-1594-ND	2.03	15.38	111.60	EKY-350ELL392MM40S
50	2.2	43	2.5	10.0	5.0	11.0	2.0	0.5	565-1595-ND	.26	1.80	9.12	EKY-500ELL2R2ME11D
	4.7	88	1.9	7.6	5.0	11.0	2.0	0.5	565-1597-ND	.26	1.80	9.12	EKY-500ELL4R7ME11D
	10	100	1.5	6.0	5.0	11.0	2.0	0.5	565-1598-ND	.26	1.80	9.12	EKY-500ELL100ME11D
	22	180	0.70	2.8	5.0	11.0	2.0	0.5	565-1599-ND	.26	1.80	9.12	EKY-500ELL220ME11D
	56	295	0.30	1.2	6.3	11.0	2.5	0.5	565-1600-ND	.30	2.04	11.56	EKY-500ELL560MF11D
	100	555	0.17	0.68	8.0	11.5	3.5	0.6	565-1601-ND	.40	2.75	16.50	EKY-500ELL101MHB5D
	120	730	0.12	0.48	8.0	15.0	3.5	0.6	565-1602-ND	.50	3.45	20.70	EKY-500ELL121MH15D
	150	760	0.12	0.48	10.0	12.5	5.0	0.6	565-1603-ND	.45	3.16	21.18	EKY-500ELL151MJC5S
	180	910	0.091	0.36	8.0	20.0	3.5	0.6	565-1604-ND	.45	3.20	21.45	EKY-500ELL181MH20D
	220	1050	0.084	0.34	10.0	16.0	5.0	0.6	565-1605-ND	.50	3.53	23.65	EKY-500ELL221MJ16S
	270	1220	0.060	0.24	10.0	20.0	5.0	0.6	565-1606-ND	.56	3.98	26.68	EKY-500ELL271MJ20S
	270	1260	0.061	0.20	12.5	15.0	5.0	0.6	565-1607-ND	.62	4.55	31.20	EKY-500ELL271MK15S
	330	1440	0.055	0.22	10.0	25.0	5.0	0.6	565-1608-ND	.70	4.96	33.28	EKY-500ELL331MJ25S
	470	1690	0.043	0.17	10.0	30.0	5.0	0.6	565-1609-ND	.66	4.87	33.36	EKY-500ELL471MJ30S
	470	1660	0.045	0.15	12.5	20.0	5.0	0.6	565-1610-ND	.67	4.94	33.84	EKY-500ELL471MK20S
	560	1950	0.034	0.11	12.5	25.0	5.0	0.6	565-1611-ND	.84	6.16	42.24	EKY-500ELL561MK25S
	560	1930	0.054	0.15	18.0	15.0	7.5	0.8	565-1612-ND	1.10	8.09	55.44	EKY-500ELL561MM15S
	680	2310	0.030	0.10	12.5	30.0	5.0	0.6	565-1613-ND	.94	6.93	47.52	EKY-500ELL681MK30S
	820	2510	0.025	0.083	12.5	35.0	5.0	0.6	565-1614-ND	1.05	7.74	53.04	EKY-500ELL821MK35S
	820	2210	0.034	0.10	16.0	20.0	7.5	0.8	565-1615-ND	1.03	7.78	56.48	EKY-500ELL821ML20S
	1000	2920	0.021	0.069	12.5	40.0	5.0	0.6	565-1616-ND	1.05	7.94	57.60	EKY-500ELL102MK40S
	1000	2555	0.025	0.075	16.0	25.0	7.5	0.8	565-1617-ND	1.13	8.56	62.10	EKY-500ELL102ML25S
	1000	2490	0.036	0.097	18.0	20.0	7.5	0.8	565-1618-ND	1.21	9.11	66.15	EKY-500ELL102MM20S
	1200	3010	0.022	0.066	16.0	31.5	7.5	0.8	565-1619-ND	1.35	10.20	74.03	EKY-500ELL122MLN3S
	1200	2740	0.026	0.070	18.0	25.0	7.5	0.8	565-1620-ND	1.37	10.35	75.15	EKY-500ELL122MM25S
	1500	3150	0.019	0.057	16.0	35.5	7.5	0.8	565-1621-ND	1.52	11.47	83.25	EKY-500ELL152MLP1S
	1800	3710	0.016	0.048	16.0	40.0	7.5	0.8	565-1622-ND	1.64	12.43	90.23	EKY-500ELL182ML40S
	2200	3680	0.017	0.046	18.0	35.5	7.5	0.8	565-1623-ND	1.99	15.07	109.35	EKY-500ELL222MMP1S
	2700	3800	0.014	0.038	18.0	40.0	7.5	0.8	565-1624-ND	1.77	13.81	109.41	EKY-500ELL272MM40S

LXY Series Aluminum Electrolytic Capacitors (Radial Lead)

High Reliability Low Impedance 105°C

Features: Miniature, Low Impedance, Long Life (2-8K Hours), Solvent Proof, 105°C Maximum Temperature

Specifications: • **Operating Temperature:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	10	16	25	35	50	63
Tan δ (DF)	0.19	0.16	0.14	0.12	0.10	0.10

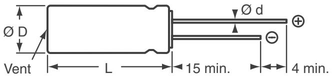

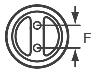

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
10	82	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1747-ND	.35	2.45	14.70	ELXY100ELL820MEB5D
	220	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1749-ND	.42	2.99	20.08	ELXY100ELL221MF15D
	330	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1750-ND	.42	2.99	20.08	ELXY100ELL331MH12D
	390	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1751-ND	.57	4.02	26.95	ELXY100ELL391MJC5S
	470	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1752-ND	.59	4.14	27.78	ELXY100ELL471MH15D
	680	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1753-ND	.63	4.43	29.70	ELXY100ELL681MJ16S
	1000	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1755-ND	.75	5.29	35.48	ELXY100ELL102MJ20S
	1200	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1756-ND	.76	5.57	38.16	ELXY100ELL122MJ25S
	1500	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1757-ND	.83	6.09	41.76	ELXY100ELL152MJ30S
	1800	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1758-ND	.86	6.30	43.20	ELXY100ELL182MK20S
	2200	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1759-ND	1.09	8.02	54.96	ELXY100ELL222MK25S
	2700	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1760-ND	1.07	8.06	58.50	ELXY100ELL272MK30S
	3300	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1761-ND	1.18	8.96	65.03	ELXY100ELL332MK35S
	3300	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1762-ND	1.11	8.40	60.98	ELXY100ELL332ML20S
	3900	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1763-ND	1.38	10.42	75.60	ELXY100ELL392MK40S
	5600	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1765-ND	1.39	10.54	76.50	ELXY100ELL562ML30S
	6800	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1766-ND	1.77	13.39	97.20	ELXY100ELL682ML35S
	8200	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1767-ND	1.85	13.95	101.25	ELXY100ELL822ML40S

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
16	120	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1769-ND	.42	2.90	17.40	ELXY160ELL121MFB5D
	180	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1770-ND	.42	2.99	20.08	ELXY160ELL181MF15D
	270	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1771-ND	.53	3.73	25.03	ELXY160ELL271MJC5S
	270	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1772-ND	.48	3.36	22.55	ELXY160ELL271MH12D
	330	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1773-ND	.59	4.14	27.78	ELXY160ELL331MH15D
	470	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1774-ND	.59	4.18	28.05	ELXY160ELL471MJ16S
	820	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1777-ND	.71	5.22	35.76	ELXY160ELL821MJ25S
	1200	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1778-ND	.75	5.53	37.92	ELXY160ELL122MJ30S
	1200	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1779-ND	.89	6.55	44.88	ELXY160ELL122MK20S
	1500	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1780-ND	1.08	7.98	54.72	ELXY160ELL152MK25S
	2200	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1781-ND	1.05	7.91	57.38	ELXY160ELL222MK30S
	2200	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1782-ND	1.06	8.00	58.05	ELXY160ELL222ML20S
	3300	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1785-ND	1.32	10.01	72.68	ELXY160ELL332MK40S
	4700	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1787-ND	1.44	10.88	78.98	ELXY160ELL472ML35S
25	120	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1791-ND	.42	2.99	20.08	ELXY250ELL121MF15D
	150	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1792-ND	.48	3.40	22.83	ELXY250ELL151MH12D
	180	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1793-ND	.59	4.14	27.78	ELXY250ELL181MJC5S
	220	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1794-ND	.59	4.14	27.78	ELXY250ELL221MH15D
	330	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1795-ND	.63	4.47	29.98	ELXY250ELL331MJ16S
	330	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1796-ND	.61	4.31	28.88	ELXY250ELL331MH20D
	470	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1797-ND	.74	5.25	35.20	ELXY250ELL471MJ20S
	820	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1799-ND	.83	6.09	41.76	ELXY250ELL821MJ30S
	820	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1800-ND	.86	6.37	43.68	ELXY250ELL821MK20S
	1000	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1801-ND	1.07	7.88	54.00	ELXY250ELL102MK25S
	1500	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1802-ND	1.05	7.94	57.60	ELXY250ELL152MK30S
	1500	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1803-ND	1.03	7.81	56.70	ELXY250ELL152ML20S
	2200	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1806-ND	1.37	10.35	75.15	ELXY250ELL222MK40S
	2700	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1807-ND	1.42	10.76	78.08	ELXY250ELL272ML30S
35	82	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1813-ND	.42	2.99	20.08	ELXY350ELL820MF15D
	120	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1814-ND	.48	3.40	22.83	ELXY350ELL121MH12D
	120	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1811-ND	.59	4.18	28.05	ELXY350ELL121MJC5S
	180	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1815-ND	.60	4.22	28.33	ELXY350ELL181MH15D
	220	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1816-ND	.63	4.47	29.98	ELXY350ELL221MJ16S
	220	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1817-ND	.61	4.35	29.15	ELXY350ELL221MH20D
	330	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1818-ND	.73	5.17	34.65	ELXY350ELL331MJ20S
	390	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1819-ND	.75	5.50	37.68	ELXY350ELL391MJ25S
	560	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1820-ND	.82	6.02	41.28	ELXY350ELL561MJ30S
	560	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1821-ND	.87	6.44	44.16	ELXY350ELL561MK20S
	680	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1822-ND	1.07	7.88	54.00	ELXY350ELL681MK25S
	1000	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1823-ND	1.06	8.03	58.28	ELXY350ELL102MK30S
	1000	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1824-ND	1.07	8.06	58.50	ELXY350ELL102ML20S
	1500	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1827-ND	1.38	10.45	75.83	ELXY350ELL152MK40S
	1800	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1828-ND	1.35	10.20	74.03	ELXY350ELL182ML30S
	2200	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1829-ND	1.51	11.44	83.03	ELXY350ELL222ML35S
	2700	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1830-ND	1.80	13.58	98.55	ELXY350ELL272ML40S
50	39	219	0.54	1.1	6.3	11.5	2.5	0.5	565-1832-ND	.42	2.90	17.40	ELXY500ELL390MFB5D
	56	310	0.34	0.68	6.3	15.0	2.5	0.5	565-1833-ND	.42	2.99	20.08	ELXY500ELL560MF15D
	68	340	0.30	0.60	8.0	12.0	3.5	0.6	565-1834-ND	.48	3.36	22.55	ELXY500ELL680MH12D
	82	480	0.20	0.40	10.0	12.5	5.0	0.6	565-1835-ND	.56	3.94	26.40	ELXY500ELL820MJC5S
	82	470	0.20	0.40	8.0	15.0	3.5	0.6	565-1836-ND	.58	4.10	27.50	ELXY500ELL820MH15D
	120	755	0.13	0.26	10.0	16.0	5.0	0.6	565-1837-ND	.61	4.31	28.88	ELXY500ELL121MJ16S
	180	945	0.088	0.18	10.0	20.0	5.0	0.6	565-1839-ND	.73	5.13	34.38	ELXY500ELL181MJ20S
	220	1150	0.073	0.15	10.0	25.0	5.0	0.6	565-1840-ND	.71	5.25	36.00	ELXY500ELL221MJ25S
	330	1260	0.054	0.11	10.0	30.0	5.0	0.6	565-1841-ND	.78	5.78	39.60	ELXY500ELL331MJ30S
	330	1190	0.059	0.12	12.5	20.0	5.0	0.6	565-1842-ND	.83	6.13	42.00	ELXY500ELL331MK20S
	470	1490	0.044	0.088	12.5	25.0	5.0	0.6	565-1843-ND	1.03	7.60	52.08	ELXY500ELL471MK25S
	680	1890	0.033	0.066	12.5	35.0	5.0	0.6	565-1845-ND	1.13	8.56	62.10	ELXY500ELL681MK35S
	680	1420	0.050	0.10	16.0	20.0	7.5	0.8	565-1846-ND	1.09	8.25	59.85	ELXY500ELL681ML20S
	820	2030	0.029	0.058	12.5	40.0	5.0	0.6	565-1847-ND	1.29	9.77	70.88	ELXY500ELL821MK40S
	820	1880	0.034	0.068	16.0	25.0	7.5	0.8	565-1848-ND	1.22	9.21	66.83	ELXY500ELL821ML25S
	1000	2150	0.030	0.060	16.0	30.0	7.5	0.8	565-1849-ND	1.31	9.92	72.00	ELXY500ELL102ML30S
	1500	2540	0.024	0.048	16.0	40.0	7.5	0.8	565-1851-ND	1.68	12.71	92.25	ELXY500ELL152ML40S
63	10	103	1.9	4.8	5.0	11.5	2.0	0.5	565-1852-ND	.32	2.20	13.20	ELXY630ELL100MEB5D
	33	233	0.61	1.6	6.3	15.0	2.5	0.5	565-1854-ND	.45	3.10	18.60	ELXY630ELL330MF15D
	47	274	0.47	1.2	8.0	12.0	3.5	0.6	565-1855-ND	.48	3.35	20.10	ELXY630ELL470MH12D
	56	418	0.27	0.68	10.0	12.5	5.0	0.6	565-1856-ND	.50	3.57	23.93	ELXY630ELL560MJC5S
	68	525	0.21	0.53	10.0	16.0	5.0	0.6	565-1857-ND	.56	3.94	26.40	ELXY630ELL680MJ16S
	68	360	034	0.85	8.0	15.0	3.5	0.6	565-1858-ND	.48	3.36	22.55	ELXY630ELL680MH15D
	120	650	0.16	0.40	10.0	20.0	5.0	0.6	565-1860-ND	.66	4.67	31.35	ELXY630ELL121MJ20S
	220	870	0.11	0.28	12.5	20.0	5.0	0.6	565-1863-ND	.74	5.46	37.44	ELXY630ELL221MK20S
	270	1150	0.074	0.19	12.5	25.0	5.0	0.6	565-1864-ND	.91	6.69	45.84	ELXY630ELL271MK25S
	330	1100	0.085	0.22	16.0	20.0	7.5	0.8	565-1865-ND	1.10	8.12	55.68	ELXY630ELL331ML20S
	390	1280	0.068	0.17	12.5	30.0	5.0	0.6	565-1866-ND	1.03	7.60	52.08	ELXY630ELL391MK30S
	470	1390	0.063	0.16	12.5	35.0	5.0	0.6	565-1867-ND	1.14	8.40	57.60	ELXY630ELL471MK35S
	470	1480	0.055	0.14	16.0	25.0	7.5	0.8	565-1868-ND	1.05	7.94	57.60	ELXY630ELL471ML25S
	560	1530	0.051	0.13	12.5	40.0	5.0	0.6	565-1869-ND	1.13	8.56	62.10	ELXY630ELL561MK40S
	1000	2070	0.036	0.09	16.0	40.0	7.5	0.8	565-1872-ND	1.43	10.79	78.30	ELXY630ELL102ML40S

KZE Series Aluminum Electrolytic Capacitors (Radial Lead)

Very Low Impedance 105°C

Features: • Miniature • Very Low Impedance • 105°C Maximum Temperature (1000 ~ 5000 Hour Life) **Specifications:** • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

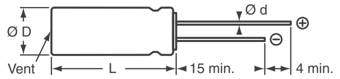

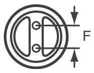

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	150	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1625-ND	.24	1.62	9.18	EKZE6R3ELL151ME11D
	220	380	0.15	0.45	8.0	7.0	3.5	0.45	565-1626-ND	.47	3.25	19.50	EKZE6R3ELL221MH07D
	330	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1627-ND	.27	1.86	10.54	EKZE6R3ELL331MF11D
	560	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1628-ND	.32	2.25	13.50	EKZE6R3ELL561MHB5D
	820	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1629-ND	.40	2.80	16.80	EKZE6R3ELL821MH15D
	1000	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1630-ND	.48	3.30	19.80	EKZE6R3ELL102MJC5S
	1200	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1631-ND	.42	2.95	19.80	EKZE6R3ELL122MJ16S
	1200	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1632-ND	.45	3.15	18.90	EKZE6R3ELL122MH20D
	1500	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1633-ND	.49	3.44	23.10	EKZE6R3ELL152MJ20S
	2200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1634-ND	.62	4.39	29.43	EKZE6R3ELL222MJ25S
	3300	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1635-ND	.64	4.73	32.40	EKZE6R3ELL332MK20S
	4700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1637-ND	.85	6.27	42.96	EKZE6R3ELL472MK30S
	5600	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1638-ND	.94	6.90	47.28	EKZE6R3ELL562MK35S
	5600	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1639-ND	1.10	8.09	55.44	EKZE6R3ELL562ML20S
	6800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1640-ND	1.08	8.18	59.40	EKZE6R3ELL682ML25S
10	100	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1641-ND	.25	1.73	8.74	EKZE100ELL101MELLD
	220	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1642-ND	.27	1.86	10.54	EKZE100ELL221MFLLD
	470	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1643-ND	.38	2.65	15.90	EKZE100ELL471MHB5D
	680	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1644-ND	.41	2.87	19.25	EKZE100ELL681MJC5S
	680	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1645-ND	.48	3.30	19.80	EKZE100ELL681MH15D
	1000	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1646-ND	.45	3.20	21.45	EKZE100ELL102MJ16S
	1000	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1647-ND	.44	3.12	20.90	EKZE100ELL102MH20D
	1200	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1648-ND	.52	3.69	24.75	EKZE100ELL122MJ20S
	1500	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1649-ND	.64	4.55	30.53	EKZE100ELL152MJ25S
	2200	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1650-ND	.66	4.83	33.12	EKZE100ELL222MK20S
	3300	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1651-ND	.83	6.09	41.76	EKZE100ELL332MK25S
	3900	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1652-ND	.93	6.83	46.80	EKZE100ELL392MK30S
	4700	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1654-ND	1.01	7.46	51.12	EKZE100ELL472MK35S
	5600	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1655-ND	1.13	8.53	61.88	EKZE100ELL562ML25S
16	68	300	0.24	0.72	6.3	7.0	2.5	0.45	565-1657-ND	.24	1.62	9.18	EKZE160ELL680MF07D
	120	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1658-ND	.31	2.10	11.90	EKZE160ELL121MFLLD
	330	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1659-ND	.35	2.45	14.70	EKZE160ELL331MHB5D
	470	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1660-ND	.49	3.40	20.40	EKZE160ELL471MJC5S
	470	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1661-ND	.45	3.10	18.60	EKZE160ELL471MH15D
	680	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1662-ND	.42	2.95	19.80	EKZE160ELL681MJ16S
	680	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1663-ND	.50	3.45	20.70	EKZE160ELL681MH20D
	1000	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1664-ND	.50	3.57	23.93	EKZE160ELL102MJ20S
	1200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1665-ND	.64	4.51	30.25	EKZE160ELL122MJ25S
	1500	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1666-ND	.65	4.80	32.88	EKZE160ELL152MK20S
	2200	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1667-ND	.81	5.99	41.04	EKZE160ELL222MK25S
	2700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1668-ND	.89	6.58	45.12	EKZE160ELL272MK30S
	2700	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1669-ND	1.05	7.74	53.04	EKZE160ELL272ML20S
	3300	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1670-ND	1.01	7.46	51.12	EKZE160ELL332MK35S
	3900	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1671-ND	1.07	8.06	58.50	EKZE160ELL392ML25S
25	47	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1672-ND	.23	1.56	8.84	EKZE250ELL470ME11D
	100	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1673-ND	.32	2.22	12.58	EKZE250ELL101MF11D
	220	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1674-ND	.35	2.45	14.70	EKZE250ELL221MHB5D
	330	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1675-ND	.41	2.91	19.53	EKZE250ELL331MJC5S
	330	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1676-ND	.44	3.05	18.30	EKZE250ELL331MH15D
	470	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1677-ND	.45	3.16	21.18	EKZE250ELL471MJ16S
	470	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1678-ND	.41	2.87	19.25	EKZE250ELL471MH20D
	680	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1679-ND	.53	3.73	25.03	EKZE250ELL681MJ20S
	820	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1680-ND	.66	4.67	31.35	EKZE250ELL821MJ25S
	1000	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1681-ND	.68	5.04	34.56	EKZE250ELL102MK20S
	1500	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1682-ND	.83	6.13	42.00	EKZE250ELL152MK25S
	1800	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1683-ND	.93	6.83	46.80	EKZE250ELL182MK30S
	1800	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1684-ND	1.06	7.81	53.52	EKZE250ELL182ML20S
	2200	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1685-ND	1.03	7.60	52.08	EKZE250ELL222MK35S
	2700	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1686-ND	1.07	8.09	58.73	EKZE250ELL272ML25S
35	33	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1687-ND	.25	1.68	9.52	EKZE350ELL330ME11D
	56	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1688-ND	.32	2.22	12.58	EKZE350ELL560MF11D
	150	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1689-ND	.37	2.55	15.30	EKZE350ELL151MHB5D
	220	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1690-ND	.45	3.16	21.18	EKZE350ELL221MJC5S
	220	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1691-ND	.46	3.20	19.20	EKZE350ELL221MH15D
	270	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1692-ND	.42	2.95	19.80	EKZE350ELL271MH20D
	330	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1693-ND	.49	3.49	23.38	EKZE350ELL331MJ16S
	470	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1694-ND	.58	4.10	27.50	EKZE350ELL471MJ20S
	560	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1695-ND	.71	5.04	33.83	EKZE350ELL561MJ25S
	680	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1696-ND	.66	4.87	33.36	EKZE350ELL681MK20S
	1000	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1697-ND	.82	6.06	41.52	EKZE350ELL102MK25S
	1200	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1698-ND	.93	6.83	46.80	EKZE350ELL122MK30S
	1200	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1699-ND	1.06	7.81	53.52	EKZE350ELL122ML20S
	1500	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1700-ND	1.06	7.81	53.52	EKZE350ELL152MK35S
	1800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1701-ND	1.11	8.40	60.98	EKZE350ELL182ML25S
50	10	210	0.50	1.5	5.0	7.0	2.0	0.5	565-1702-ND	.26	1.80	9.12	EKZE500ELL100ME07D
	22	238	0.34	1.18	5.0	11.0	2.0	0.5	565-1703-ND	.24	1.62	9.18	EKZE500ELL220ME11D
	56	385	0.14	0.50	6.3	11.0	2.5	0.5	565-1704-ND	.30	2.04	11.56	EKZE500ELL560MF11D
	100	724	0.074	0.22	8.0	11.5	3.5	0.6	565-1705-ND	.41	2.85	17.10	EKZE500ELL101MHB5D
	120	950	0.061	0.18	8.0	15	3.5	0.6	565-1706-ND	.42	2.95	19.80	EKZE500ELL121MH15D
	150	979	0.061	0.18	10.0	12.5	5.0	0.6	565-1707-ND	.42	2.99	20.08	EKZE500ELL151MJC5S
	180	1190	0.046	0.14	8.0	20.0	3.5	0.6	565-1708-ND	.48	3.36	22.55	EKZE500ELL181MH20D
	220	1370	0.042	0.12	10.0	16.0	5.0	0.6	565-1709-ND	.48	3.36	22.55	EKZE500ELL221MJ16S
	270	1580	0.030	0.090	10.0	20.0	5.0	0.6	565-1710-ND	.53	3.73	25.03	EKZE500ELL271MJ20S
	330	1870	0.028	0.085	10.0	25.0	5.0	0.6	565-1711-ND	.66	4.67	31.35	EKZE500ELL331MJ25S
	470	2050	0.027	0.068	12.5	20.0	5.0	0.6	565-1712-ND	.72	5.29	36.24	EKZE500ELL471MK20S
	560	2410	0.023	0.059	12.5	25.0	5.0	0.6	565-1713-ND	.86	6.37	43.68	EKZE500ELL561MK25S
	680	2860	0.021	0.052	12.5	30.0	5.0	0.6	565-1714-ND	.97	7.18	49.20	EKZE500ELL681MK30S
	820	2960	0.019	0.051	12.5	35.0	5.0	0.6	565-1715-ND	1.09	8.02	54.96	EKZE500ELL821MK35S
	820	2730	0.023	0.059	16.0	20.0	7.5	0.8	565-1716-ND	1.07	7.91	54.24	EKZE500ELL821ML20S
	1000	3010	0.021	0.056	16.0	25.0	7.5	0.8	565-1717-ND	1.05	7.91	57.38	EKZE500ELL102ML25S
63	15	165	0.88	3.5	5.0	11.0	2.0	0.5	565-1718-ND	.26	1.80	9.12	EKZE630ELL150ME11D
	33	265	0.35	1.4	6.3	11.0	2.5	0.5	565-1719-ND	.34	2.34	13.26	EKZE630ELL330MF11D

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

KZE Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
63	56	500	0.22	0.88	8.0	11.5	3.5	0.6	565-1720-ND	.44	3.05	18.30	EKZE630ELL560MHB5D
	82	690	0.11	0.44	10.0	12.5	5.0	0.6	565-1721-ND	.46	3.28	22.00	EKZE630ELL820MJC5S
	82	665	0.16	0.64	8.0	15.0	3.5	0.6	565-1722-ND	.44	3.12	20.90	EKZE630ELL820MH15D
	120	950	0.076	0.31	10.0	16.0	5.0	0.6	565-1723-ND	.52	3.65	24.48	EKZE630ELL121MJ16S
	180	1150	0.072	0.29	12.5	16.0	5.0	0.6	565-1724-ND	.69	5.11	35.04	EKZE630ELL181MK16S
	220	1350	0.046	0.19	10.0	25.0	5.0	0.6	565-1725-ND	.64	4.69	32.16	EKZE630ELL221MJ25S
	390	1900	0.031	0.093	12.5	25.0	5.0	0.6	565-1726-ND	.87	6.44	44.16	EKZE630ELL391MK25S
	470	2300	0.028	0.084	12.5	30.0	5.0	0.6	565-1727-ND	1.01	7.46	51.12	EKZE630ELL471MK30S
	680	2800	0.021	0.063	12.5	40.0	5.0	0.6	565-1728-ND	1.16	8.77	63.68	EKZE630ELL681MK40S
	1000	2900	0.019	0.057	16.0	35.5	7.5	0.8	565-1729-ND	1.49	11.28	81.90	EKZE630ELL102MLP1S
	1500	3400	0.018	0.054	18.0	35.5	7.5	0.8	565-1730-ND	1.93	14.60	105.98	EKZE630ELL152MMP1S
	1800	3500	0.017	0.051	18.0	40.0	7.5	0.8	565-1731-ND	1.75	13.65	108.15	EKZE630ELL182MM40S
100	27	355	0.36	1.4	8.0	11.5	3.5	0.6	565-1732-ND	.38	2.65	15.90	EKZE101ELL270MHB5D
	39	450	0.25	1.0	8.0	15.0	3.5	0.6	565-1733-ND	.48	3.30	19.80	EKZE101ELL390MH15D
	47	480	0.17	0.66	10.0	12.5	5.0	0.6	565-1734-ND	.46	3.24	21.73	EKZE101ELL470MJC5S
	68	600	0.11	0.47	10.0	16.0	5.0	0.6	565-1735-ND	.51	3.61	24.20	EKZE101ELL680MJ16S
	100	750	0.11	0.34	12.5	16.0	5.0	0.6	565-1736-ND	.73	5.36	36.72	EKZE101ELL101MK16S
	120	900	0.069	0.28	10.0	25.0	5.0	0.6	565-1737-ND	.62	4.59	31.44	EKZE101ELL121MJ25S
	150	1100	0.062	0.18	12.5	20.0	5.0	0.6	565-1738-ND	.78	5.78	39.60	EKZE101ELL151MK20S
	220	1250	0.047	0.14	12.5	25.0	5.0	0.6	565-1739-ND	.98	7.25	49.68	EKZE101ELL221MK25S
	270	1500	0.042	0.13	12.5	30.0	5.0	0.6	565-1740-ND	1.10	8.12	55.68	EKZE101ELL271MK30S
	330	1650	0.036	0.11	12.5	35.0	5.0	0.6	565-1741-ND	1.07	8.06	58.50	EKZE101ELL331MK35S
	330	1500	0.045	0.14	18.0	20.0	7.5	0.8	565-1742-ND	1.25	9.49	68.85	EKZE101ELL331MM20S
	470	1750	0.036	0.11	18.0	25.0	7.5	0.8	565-1743-ND	1.52	11.50	83.48	EKZE101ELL471MM25S
	560	2000	0.029	0.086	16.0	35.5	7.5	0.8	565-1744-ND	1.67	12.62	91.58	EKZE101ELL561MLP1S
	680	2200	0.027	0.081	18.0	35.5	7.5	0.8	565-1745-ND	2.04	15.41	111.83	EKZE101ELL681MMP1S
	820	2700	0.026	0.077	18.0	40.0	7.5	0.8	565-1746-ND	1.85	14.42	114.24	EKZE101ELL821MM40S

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead)

High Reliability Lowest Impedance 105°C

Features: • Miniature • Lowest Impedance • Long Life (2-8K Hours) • Solvent Proof, 105°C Maximum Temperature **Specifications:** • **Operating Temperature:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.08

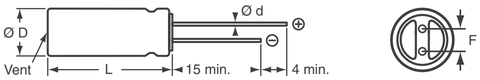

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	330	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1874-ND	.42	2.90	17.40	ELXZ6R3ELL331MFB5D
	470	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1875-ND	.41	2.91	19.53	ELXZ6R3ELL471MF15D
	680	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1876-ND	.49	3.49	23.38	ELXZ6R3ELL681MH12D
	820	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1877-ND	.66	4.67	31.35	ELXZ6R3ELL821MJC5S
	1000	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1878-ND	.64	4.55	30.53	ELXZ6R3ELL102MH15D
	1200	810	0080	0.16	8.0	20.0	3.5	0.6	565-1880-ND	.63	4.47	29.98	ELXZ6R3ELL122MH20D
	1500	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1881-ND	.73	5.36	36.72	ELXZ6R3ELL152MJ20S
	2200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1882-ND	.90	6.62	45.36	ELXZ6R3ELL222MJ25S
	2700	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1883-ND	.98	7.21	49.44	ELXZ6R3ELL272MJ30S
	3300	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1884-ND	.97	7.14	48.96	ELXZ6R3ELL332MK20S
	8200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1892-ND	1.66	12.56	91.13	ELXZ6R3ELL822ML30S
	10000	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1893-ND	1.92	14.54	105.53	ELXZ6R3ELL103ML35S
	12000	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1896-ND	1.71	13.33	105.63	ELXZ6R3ELL123MM30S
10	100	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1899-ND	.37	2.55	15.30	ELXZ100ELL101MEB5D
	220	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1900-ND	.45	3.15	18.90	ELXZ100ELL221MFB5D
	330	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1901-ND	.41	2.91	19.53	ELXZ100ELL331MF15D
	470	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1902-ND	.49	3.49	23.38	ELXZ100ELL471MH12D
	680	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1903-ND	.65	4.59	30.80	ELXZ100ELL681MJC5S
	1000	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1905-ND	.72	5.08	34.10	ELXZ100ELL102MJ16S
	1000	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1906-ND	.64	4.51	30.25	ELXZ100ELL102MH20D
	1500	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1908-ND	.86	6.37	43.68	ELXZ100ELL152MJ25S
	1800	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1909-ND	.94	6.93	47.52	ELXZ100ELL182MJ30S
	2200	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1910-ND	.95	7.00	48.00	ELXZ100ELL222MK20S
	3300	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1911-ND	1.04	7.84	56.93	ELXZ100ELL332MK25S
	3900	2310	0.025	0.058	12.5	30.0	5.0	0.6	565-1912-ND	1.17	8.84	64.13	ELXZ100ELL392MK30S
	4700	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1914-ND	1.23	9.30	67.50	ELXZ100ELL472MK35S
	5600	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1915-ND	1.42	10.76	78.08	ELXZ100ELL562MK40S
	8200	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1920-ND	1.76	13.30	96.53	ELXZ100ELL822ML35S
	10000	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1922-ND	1.72	13.44	106.47	ELXZ100ELL103ML40S
	12000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1924-ND	2.17	16.91	133.98	ELXZ100ELL123MM40S
16	220	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1927-ND	.46	3.24	21.73	ELXZ160ELL221MF15D
	330	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1928-ND	.44	3.12	20.90	ELXZ160ELL331MH12D
	470	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1929-ND	.62	4.39	29.43	ELXZ160ELL471MJC5S
	470	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1930-ND	.63	4.47	29.98	ELXZ160ELL471MH15D
	560	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1931-ND	.63	4.47	29.98	ELXZ160ELL561MH20D
	680	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1932-ND	.69	4.88	32.73	ELXZ160ELL681MJ16S
	1000	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1933-ND	.67	4.90	33.60	ELXZ160ELL102MJ20S
	1200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1934-ND	.80	5.88	40.32	ELXZ160ELL122MJ25S
	1500	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1935-ND	.88	6.51	44.64	ELXZ160ELL152MJ30S

(Continued)

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
16	1500	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1936-ND	.96	7.07	48.48	ELXZ160ELL152MK20S
	2200	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1937-ND	1.05	7.91	57.38	ELXZ160ELL222MK25S
	2700	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1938-ND	1.15	8.71	63.23	ELXZ160ELL272MK30S
	3300	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1940-ND	1.32	10.01	72.68	ELXZ160ELL332MK35S
	4700	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1944-ND	1.59	12.03	87.30	ELXZ160ELL472ML30S
	4700	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1945-ND	1.78	13.49	97.88	ELXZ160ELL472MM25S
	6800	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1948-ND	1.86	14.07	102.15	ELXZ160ELL682ML40S
	8200	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1949-ND	1.92	14.97	118.65	ELXZ160ELL822MM35S
	10000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1950-ND	2.18	16.96	134.40	ELXZ160ELL103MM40S
25	47	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1951-ND	.36	2.50	15.00	ELXZ250ELL470MEB5D
	100	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1952-ND	.45	3.15	18.90	ELXZ250ELL101MFB5D
	150	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1953-ND	.46	3.24	21.73	ELXZ250ELL151MF15D
	220	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1954-ND	.44	3.12	20.90	ELXZ250ELL221MH12D
	330	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1955-ND	.64	4.51	30.25	ELXZ250ELL331MJC5S
	330	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1956-ND	.56	3.94	26.40	ELXZ250ELL331MH15D
	390	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1957-ND	.63	4.43	29.70	ELXZ250ELL391MH20D
	470	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1958-ND	.71	5.00	33.55	ELXZ250ELL471MJ16S
	680	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1959-ND	.69	5.08	34.80	ELXZ250ELL681MJ20S
	820	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1960-ND	.84	6.20	42.48	ELXZ250ELL821MJ25S
	1000	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1961-ND	.93	6.86	47.04	ELXZ250ELL102MJ30S
	1000	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1962-ND	.95	7.00	48.00	ELXZ250ELL102MK20S
	1500	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1963-ND	1.18	8.68	59.52	ELXZ250ELL152MK25S
	2200	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1966-ND	1.36	10.26	74.48	ELXZ250ELL222MK35S
	2200	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1967-ND	1.38	10.45	75.83	ELXZ250ELL222MM20S
	2700	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1968-ND	1.50	11.32	82.13	ELXZ250ELL272MK40S
	2700	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1969-ND	1.45	10.97	79.65	ELXZ250ELL272ML25S
	3300	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1970-ND	1.52	11.50	83.48	ELXZ250ELL332ML30S
	3300	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1971-ND	1.78	13.49	97.88	ELXZ250ELL332MM25S
	3900	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1972-ND	1.87	14.14	102.60	ELXZ250ELL392ML35S
	4700	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1974-ND	1.93	14.60	105.98	ELXZ250ELL472ML40S
	4700	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1975-ND	2.04	15.41	111.83	ELXZ250ELL472MM35S
	5600	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1976-ND	2.16	16.83	133.35	ELXZ250ELL562MM40S
35	56	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1978-ND	.45	3.15	18.90	ELXZ350ELL560MFB5D
	100	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1979-ND	.46	3.24	21.73	ELXZ350ELL101MF15D
	220	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1981-ND	.62	4.39	29.43	ELXZ350ELL221MJC5S
	220	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1982-ND	.56	3.98	26.68	ELXZ350ELL221MH15D
	270	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1983-ND	.74	5.21	34.93	ELXZ350ELL271MH20D
	330	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1984-ND	.70	4.92	33.00	ELXZ350ELL331MJ16S
	470	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1985-ND	.67	4.97	34.08	ELXZ350ELL471MJ20S
	560	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1986-ND	.82	6.02	41.28	ELXZ350ELL561MJ25S
	680	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1987-ND	.90	6.62	45.36	ELXZ350ELL681MJ30S
	680	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1988-ND	.95	7.00	48.00	ELXZ350ELL681MK20S
	1000	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1989-ND	1.03	7.78	56.48	ELXZ350ELL102MK25S
	1200	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1990-ND	1.17	8.84	64.13	ELXZ350ELL122MK30S
	1200	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1991-ND	1.27	9.61	69.75	ELXZ350ELL122ML20S
	1500	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1992-ND	1.35	10.23	74.25	ELXZ350ELL152MK35S
	1800	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1993-ND	1.56	11.81	85.73	ELXZ350ELL182MK40S
	1800	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1994-ND	1.47	11.13	80.78	ELXZ350ELL182ML25S
	2200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1996-ND	1.61	12.18	88.43	ELXZ350ELL222ML30S
	2200	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1997-ND	1.82	13.73	99.68	ELXZ350ELL222MM25S
	2700	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1998-ND	1.75	13.27	96.30	ELXZ350ELL272ML35S
	2700	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1999-ND	1.72	13.44	106.47	ELXZ350ELL272MM30S
	3300	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-2000-ND	2.03	15.38	111.60	ELXZ350ELL332ML40S
	3300	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-2001-ND	1.72	13.44	106.47	ELXZ350ELL332MM35S
	3900	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-2002-ND	2.26	17.65	139.86	ELXZ350ELL392MM40S
50	22	155	0.90	1.8	5.0	11.5	2.0	0.5	565-2003-ND	.36	2.50	15.00	ELXZ500ELL220MEB5D
	47	260	0.45	0.90	6.3	11.5	2.5	0.5	565-2004-ND	.45	3.15	18.90	ELXZ500ELL470MFB5D
	68	360	0.31	0.62	6.3	15.0	2.5	0.5	565-2026-ND	.45	3.20	21.45	ELXZ500ELL680MF15D
	100	485	0.22	0.44	8.0	12.0	3.5	0.6	565-2005-ND	.49	3.49	23.38	ELXZ500ELL101MH12D
	120	620	0.16	0.32	10.0	12.5	5.0	0.6	565-2008-ND	.61	4.35	29.15	ELXZ500ELL121MJC5S
	120	635	0.16	0.32	8.0	15.0	3.5	0.6	565-2009-ND	.63	4.47	29.98	ELXZ500ELL121MH15D
	180	730	0.12	0.24	8.0	20.0	3.5	0.6	565-2014-ND	.73	5.17	34.65	ELXZ500ELL181MH20D
	220	1050	0.088	0.18	10.0	20.0	5.0	0.6	565-2017-ND	.65	4.80	32.88	ELXZ500ELL221MJ20S
	330	1250	0.073	0.15	10.0	25.0	5.0	0.6	565-2020-ND	.81	5.99	41.04	ELXZ500ELL331MJ25S
	680	2220	0.039	0.078	12.5	30.0	5.0	0.6	565-2024-ND	1.10	8.31	60.30	ELXZ500ELL681MK30S
	820	1980	0.042	0.084	18.0	20.0	7.5	0.8	565-2028-ND	1.39	10.51	76.28	ELXZ500ELL821MM20S
	1000	2500	0.029	0.058	12.5	40.0	5.0	0.6	565-2006-ND	1.41	10.63	77.18	ELXZ500ELL102MK40S
	1000	2240	0.034	0.068	16.0	25.0	7.5	0.8	565-2007-ND	1.37	10.32	74.93	ELXZ500ELL102ML25S
	1200	2610	0.029	0.058	18.0	25.0	7.5	0.8	565-2011-ND	1.66	12.56	91.13	ELXZ500ELL122MM25S
	1500	2800	0.025	0.050	16.0	35.0	7.5	0.8	565-2012-ND	1.74	13.14	95.40	ELXZ500ELL152ML35S
	2200	3100	0.023	0.046	18.0	35.0	7.5	0.8	565-2018-ND	1.78	13.86	109.83	ELXZ500ELL222MM35S
	2700	3400	0.020	0.040	18.0	40.0	7.5	0.8	565-2019-ND	2.32	18.05	143.01	ELXZ500ELL272MM40S
63	22	240	1.0	2.0	6.3	11.5	2.5	0.5	565-2041-ND	.38	2.65	15.90	ELXZ630ELL220MFB5D
	39	330	0.61	1.4	6.3	15.0	2.5	0.5	565-2045-ND	.48	3.30	19.80	ELXZ630ELL390MF15D
	68	405	0.34	0.75	8.0	12.0	3.5	0.6	565-2051-ND	.41	2.87	19.25	ELXZ630ELL680MH12D
	100	540	0.255	0.51	10.0	12.5	5.0	0.6	565-2029-ND	.55	3.85	25.85	ELXZ630ELL101MJC5S
	100	535	0.27	0.65	8.0	15.0	3.5	0.6	565-2030-ND	.51	3.61	24.20	ELXZ630ELL101MH15D
	120	600	0.19	0.38	10.0	16.0	5.0	0.6	565-2032-ND	.60	4.26	28.60	ELXZ630ELL121MJ16S
	150	690	0.21	0.52	8.0	20.0	3.5	0.6	565-2036-ND	.59	4.14	27.78	ELXZ630ELL151MH20D
	220	1050	0.13	0.26	10.0	25.0	5.0	0.6	565-2040-ND	.73	5.39	36.96	ELXZ630ELL221MJ25S
	330	1300	0.090	0.18	10.0	30.0	5.0	0.6	565-2042-ND	.83	6.13	42.00	ELXZ630ELL331MJ30S
	330	1290	0.085	0.17	12.5	20.0	5.0	0.6	565-2043-ND	.82	6.06	41.52	ELXZ630ELL331MK20S
	390	1720	0.070	0.14	12.5	25.0	5.0	0.6	565-2044-ND	.95	7.04	48.24	ELXZ630ELL391MK25S

(Continued)

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions – mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
63	470	2090	0.055	0.11	12.5	30.0	5.0	0.6	565-2046-ND	1.13	8.30	56.88	ELXZ630ELL471MK30S
	470	1770	0.059	0.12	16.0	20.0	7.5	0.8	565-2047-ND	1.16	8.58	58.80	ELXZ630ELL471ML20S
	680	2270	0.047	0.094	12.5	35.0	5.0	0.6	565-2048-ND	1.12	8.46	61.43	ELXZ630ELL681MK35S
	680	2160	0.050	0.10	16.0	25.0	7.5	0.8	565-2049-ND	1.24	9.39	68.18	ELXZ630ELL681ML25S
	680	2290	0.055	0.11	18.0	20.0	7.5	0.8	565-2050-ND	1.24	9.39	68.18	ELXZ630ELL681MM20S
	820	2560	0.042	0.084	12.5	40.0	5.0	0.6	565-2052-ND	1.30	9.80	71.10	ELXZ630ELL821MK40S
	820	2670	0.043	0.086	16.0	30.0	7.5	0.8	565-2053-ND	1.24	9.39	68.18	ELXZ630ELL821ML30S
	820	2590	0.043	0.086	18.0	25.0	7.5	0.8	565-2054-ND	1.50	11.32	82.13	ELXZ630ELL821MM25S
	1000	2770	0.036	0.072	16.0	35.0	7.5	0.8	565-2031-ND	1.58	11.97	86.85	ELXZ630ELL102ML35S
	1200	2850	0.030	0.060	16.0	40.0	7.5	0.8	565-2033-ND	1.61	12.15	88.20	ELXZ630ELL122ML40S
	1200	2950	0.032	0.064	18.0	30.0	7.5	0.8	565-2034-ND	1.75	13.24	96.08	ELXZ630ELL122MM30S
	1500	3100	0.030	0.060	18.0	35.0	7.5	0.8	565-2037-ND	1.73	13.46	106.68	ELXZ630ELL152MM35S
	1800	3210	0.025	0.050	18.0	40.0	7.5	0.8	565-2039-ND	1.82	14.15	112.14	ELXZ630ELL182MM40S

Alchip™ MVA/MVE Series Aluminum Electrolytic Capacitors (SMT)

General Purpose MVA: 85°C; MVE: 105°C

Features: General Purpose, Solvent Proof (6.3V ~ 63V)
Specifications: • **Capacitance Tolerance:** ±20%
Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

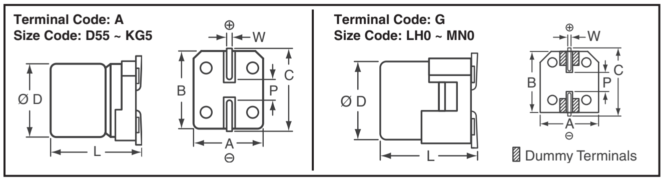

Leakage Current:

Case D55-JA0	I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C
Case KE0-MN0	I=0.03CV or 4µA, whichever is greater, after 1 minute @ 20°C

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					D	L		5	10	25		Qty.	Pricing	
MVA Series — 85°C														
6.3	33	D55	0.35	30	4.0	5.2	565-2055-1-ND	2.15	3.28	7.18	—	—	—	EMVA6R3ADA330MD55G
	47	D55	0.35	33	4.0	5.2	565-2056-1-ND	2.15	3.28	7.18	565-2056-2-ND	2,000	73.80/M	EMVA6R3ADA470MD55G
	100	E55	0.35	55	5.0	5.2	565-2057-1-ND	2.52	3.84	8.40	565-2057-2-ND	1,000	91.20	EMVA6R3ADA101ME55G
	220	F55	0.35	88	6.3	5.2	565-2058-1-ND	2.78	4.24	9.28	565-2058-2-ND	1,000	100.70	EMVA6R3ADA221MF55G
	330	F80	0.35	135	6.3	7.7	565-2059-1-ND	3.31	5.04	11.03	565-2059-2-ND	900	113.40	EMVA6R3ADA331MF80G
	470	HA0	0.35	280	8.0	10.0	565-2060-1-ND	3.64	6.10	12.51	565-2060-2-ND	500	91.00	EMVA6R3ADA471MHA0G
	680	HA0	0.35	290	8.0	10.0	565-2061-1-ND	3.64	6.10	12.51	—	—	—	EMVA6R3ADA681MHA0G
	820	HA0	0.35	320	8.0	10.0	565-2062-1-ND	3.64	6.10	12.51	565-2062-2-ND	500	91.00	EMVA6R3ADA821MHA0G
	1000	JA0	0.35	430	10.0	10.0	565-2063-1-ND	4.40	7.37	15.13	565-2063-2-ND	500	110.00	EMVA6R3ADA102MJA0G
	1500	JA0	0.35	480	10.0	10.0	565-2064-1-ND	4.32	7.24	14.85	565-2064-2-ND	500	108.00	EMVA6R3ADA152MJA0G
	2200	KE0	0.40	890	12.5	13.5	565-2065-1-ND	9.25	15.17	34.23	565-2065-2-ND	200	166.50	EMVA6R3ARA222MKE0S
	3300	KG5	0.42	1000	12.5	16.0	565-2066-1-ND	11.93	19.56	44.12	565-2066-2-ND	150	160.99	EMVA6R3ARA332MKG5S
	6800	MH0	0.48	1700	18.0	16.5	565-2070-1-ND	19.44	34.56	83.70	565-2070-2-ND	125	263.25	EMVA6R3GDA682MMH0S
	10000	MN0	0.56	2000	18.0	21.5	565-2071-1-ND	21.60	38.40	93.00	565-2071-2-ND	75	193.50	EMVA6R3GDA103MMN0S
10	22	D55	0.30	26	4.0	5.2	565-2072-1-ND	2.15	3.28	7.18	565-2072-2-ND	2,000	73.80/M	EMVA100ADA220MD55G
	33	D55	0.30	30	4.0	5.2	565-2073-1-ND	2.15	3.28	7.18	565-2073-2-ND	2,000	73.80/M	EMVA100ADA330MD55G
	47	E55	0.30	44	5.0	5.2	565-2074-1-ND	2.52	3.84	8.40	565-2074-2-ND	1,000	91.20	EMVA100ADA470ME55G
	100	F55	0.30	70	6.3	5.2	565-2075-1-ND	2.78	4.24	9.28	565-2075-2-ND	1,000	100.70	EMVA100ADA101MF55G
	150	F55	0.30	79	6.3	5.2	565-2076-1-ND	2.78	4.24	9.28	565-2076-2-ND	1,000	100.70	EMVA100ADA151MF55G
	220	F80	0.30	130	6.3	7.7	565-2077-1-ND	3.31	5.04	11.03	565-2077-2-ND	900	113.40	EMVA100ADA221MF80G
	330	HA0	0.30	270	8.0	10.0	565-2078-1-ND	3.60	6.03	12.38	565-2078-2-ND	500	90.00	EMVA100ADA331MHA0G
	470	HA0	0.30	280	8.0	10.0	565-2079-1-ND	3.64	6.10	12.51	565-2079-2-ND	500	91.00	EMVA100ADA471MHA0G
	1000	JA0	0.30	430	10.0	10.0	565-2080-1-ND	4.28	7.17	14.71	565-2080-2-ND	500	107.00	EMVA100ADA102MJA0G
	2200	KE0	0.36	960	12.5	13.5	565-2081-1-ND	9.73	15.95	35.98	565-2081-2-ND	200	175.05	EMVA100ADA222MKE0S
	3300	LH0	0.38	1300	16.0	16.5	565-2082-1-ND	20.46	33.93	81.09	—	—	—	EMVA100GDA332MLH0S
	6800	MN0	0.44	1850	18.0	21.5	565-2085-1-ND	21.60	38.40	93.00	565-2085-2-ND	75	193.50	EMVA100GDA682MMN0S
16	22	D55	0.26	26	4.0	5.2	565-2086-1-ND	2.15	3.28	7.18	565-2086-2-ND	2,000	73.80/M	EMVA160ADA220MD55G
	33	E55	0.26	37	5.0	5.2	565-2087-1-ND	2.52	3.84	8.40	565-2087-2-ND	1,000	91.20	EMVA160ADA330ME55G
	47	E55	0.26	44	5.0	5.2	565-2088-1-ND	2.52	3.84	8.40	565-2088-2-ND	1,000	91.20	EMVA160ADA470ME55G
	100	F55	0.26	70	6.3	5.2	565-2089-1-ND	2.78	4.24	9.28	565-2089-2-ND	1,000	100.70	EMVA160ADA101MF55G
	150	F80	0.26	110	6.3	7.7	565-2090-1-ND	3.31	5.04	11.03	565-2090-2-ND	900	113.40	EMVA160ADA151MF80G
	220	F80	0.26	130	6.3	7.7	565-2091-1-ND	3.31	5.04	11.03	565-2091-2-ND	900	113.40	EMVA160ADA221MF80G
	330	HA0	0.26	270	8.0	10.0	565-2092-1-ND	3.60	6.03	12.38	565-2092-2-ND	500	90.00	EMVA160ADA331MHA0G
	470	HA0	0.26	280	8.0	10.0	565-2093-1-ND	3.60	6.03	12.38	565-2093-2-ND	500	90.00	EMVA160ADA471MHA0G
	680	JA0	0.26	380	10.0	10.0	565-2094-1-ND	4.28	7.17	14.71	565-2094-2-ND	500	107.00	EMVA160ADA681MJA0G
	1000	KE0	0.30	710	12.5	13.5	565-2095-1-ND	9.25	15.17	34.23	565-2095-2-ND	200	166.50	EMVA160ARA102MKE0S
	2200	LH0	0.32	1150	16.0	16.5	565-2096-1-ND	20.34	33.73	80.60	—	—	—	EMVA160GDA222MLH0S
	3300	LN0	0.34	1450	16.0	21.5	565-2097-1-ND	19.62	34.88	84.48	—	—	—	EMVA160GDA332MLN0S
	3300	MH0	0.34	1450	18.0	16.5	565-2098-1-ND	19.08	33.92	82.15	—	—	—	EMVA160GDA332MMH0S
	4700	MN0	0.36	1750	18.0	21.5	565-2099-1-ND	21.42	38.08	92.23	565-2099-2-ND	75	191.89	EMVA160GDA472MMN0S
25	10	D55	0.16	24	4.0	5.2	565-2100-1-ND	2.15	3.28	7.18	565-2100-2-ND	2,000	73.80/M	EMVA250ADA100MD55G
	22	E55	0.16	41	5.0	5.2	565-2101-1-ND	2.52	3.84	8.40	565-2101-2-ND	1,000	91.20	EMVA250ADA220ME55G
	33	E55	0.16	47	5.0	5.2	565-2102-1-ND	2.52	3.84	8.40	565-2102-2-ND	1,000	91.20	EMVA250ADA330ME55G
	47	F55	0.16	60	6.3	5.2	565-2103-1-ND	2.78	4.24	9.28	565-2103-2-ND	1,000	100.70	EMVA250ADA470MF55G
	56	F55	0.16	66	6.3	5.2	565-2104-1-ND	2.78	4.24	9.28	565-2104-2-ND	1,000	100.70	EMVA250ADA560MF55G
	100	F80	0.16	120	6.3	7.7	565-2105-1-ND	3.26	4.96	10.85	565-2105-2-ND	900	111.60	EMVA250ADA101MF80G
	150	HA0	0.16	210	8.0	10.0	565-2106-1-ND	3.48	5.83	11.96	565-2106-2-ND	500	87.00	EMVA250ADA151MHA0G
	220	HA0	0.16	260	8.0	10.0	565-2107-1-ND	3.52	5.90	12.10	565-2107-2-ND	500	88.00	EMVA250ADA221MHA0G
	330	HA0	0.16	300	8.0	10.0	565-2108-1-ND	3.64	6.10	12.51	565-2108-2-ND	500	91.00	EMVA250ADA331MHA0G
	470	JA0	0.16	400	10.0	10.0	565-2109-1-ND	4.40	7.37	15.13	565-2109-2-ND	500	110.00	EMVA250ADA471MJA0G
	1000	KE0	0.26	820	12.5	13.5	565-2110-1-ND	9.73	15.95	35.98	565-2110-2-ND	200	175.05	EMVA250ARA102MKE0S
	2200	MH0	0.28	1400	18.0	16.5	565-2112-1-ND	19.44	34.56	83.70	565-2112-2-ND	125	263.25	EMVA250GDA222MMH0S
	3300	MN0	0.30	1800	18.0	21.5	565-2113-1-ND	21.60	38.40	93.00	—	—	—	EMVA250GDA332MMN0S

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					D	L		5	10	25		Qty.	Pricing	
35	4.7	D55	014	18	4.0	5.2	565-2114-1-ND	2.15	3.28	7.18	565-2114-2-ND	2,000	73.80/M	EMVA350ADA4R7MD55G
	10	D55	0.14	24	4.0	5.2	565-2115-1-ND	2.15	3.28	7.18	565-2115-2-ND	2,000	73.80/M	EMVA350ADA100MD55G
	22	E55	0.14	41	5.0	5.2	565-2116-1-ND	2.52	3.84	8.40	565-2116-2-ND	1,000	91.20	EMVA350ADA220ME55G
	33	F55	0.14	54	6.3	5.2	565-2117-1-ND	2.73	4.16	9.10	565-2117-2-ND	1,000	98.80	EMVA350ADA330MF55G
	47	F60	0.14	64	6.3	5.7	565-2118-1-ND	2.73	4.16	9.10	565-2118-2-ND	1,000	98.80	EMVA350ADA470MF60G
	100	F80	0.14	120	6.3	7.7	565-2119-1-ND	3.31	5.04	11.03	565-2119-2-ND	900	113.40	EMVA350ADA101MF80G
	150	HA0	0.14	210	8.0	10.0	565-2120-1-ND	3.52	5.90	12.10	565-2120-2-ND	500	88.00	EMVA350ADA151MHA0G
	220	HA0	0.14	260	8.0	10.0	565-2121-1-ND	3.64	6.10	12.51	565-2121-2-ND	500	91.00	EMVA350ADA221MHA0G
	330	JA0	0.14	360	10.0	10.0	565-2122-1-ND	4.40	7.37	15.13	565-2122-2-ND	500	110.00	EMVA350ADA331MJA0G
	470	KE0	0.22	600	12.5	13.5	565-2123-1-ND	9.48	15.54	35.06	565-2123-2-ND	200	170.55	EMVA350ARA471MKE0S
	1000	LH0	0.22	1100	16.0	16.5	565-2125-1-ND	18.18	32.32	78.28	565-2125-2-ND	170	334.82	EMVA350GDA102MLH0S
	2200	MN0	0.24	1700	18.0	21.5	565-2126-1-ND	21.78	38.72	93.78	565-2126-2-ND	75	195.11	EMVA350GDA222MMN0S
50	3.3	D55	0.12	15	4.0	5.2	565-2127-1-ND	2.15	3.28	7.18	565-2127-2-ND	2,000	73.80/M	EMVA500ADA3R3MD55G
	4.7	D55	0.12	18	4.0	5.2	565-2128-1-ND	2.15	3.28	7.18	565-2128-2-ND	2,000	73.80/M	EMVA500ADA4R7MD55G
	10	E55	0.12	30	5.0	5.2	565-2129-1-ND	2.52	3.84	8.40	565-2129-2-ND	1,000	91.20	EMVA500ADA100ME55G
	22	F55	0.12	47	6.3	5.2	565-2130-1-ND	2.78	4.24	9.28	565-2130-2-ND	1,000	100.70	EMVA500ADA220MF55G
	33	F80	0.12	70	6.3	7.7	565-2131-1-ND	3.26	4.96	10.85	565-2131-2-ND	900	111.60	EMVA500ADA330MF80G
	47	F80	0.12	85	6.3	7.7	565-2132-1-ND	3.31	5.04	11.03	565-2132-2-ND	900	113.40	EMVA500ADA470MF80G
	100	HA0	0.12	190	8.0	10.0	565-2133-1-ND	3.56	5.96	12.24	565-2133-2-ND	500	89.00	EMVA500ADA101MHA0G
	220	JA0	0.12	320	10.0	10.0	565-2134-1-ND	4.44	7.44	15.26	565-2134-2-ND	500	111.00	EMVA500ADA221MJA0G
	330	KE0	0.18	600	12.5	13.5	565-2135-1-ND	9.55	15.66	35.34	565-2135-2-ND	200	171.90	EMVA500ARA331MKE0S
	470	KG5	0.18	740	12.5	16.0	565-2136-1-ND	12.25	20.09	45.33	565-2136-2-ND	150	165.38	EMVA500ARA471MKG5S
	470	LH0	0.18	850	16.0	16.5	565-2137-1-ND	20.15	33.42	79.87	—	—	—	EMVA500GDA471MLH0S
	1000	LN0	0.18	1300	16.0	21.5	565-2138-1-ND	20.52	36.48	88.35	565-2138-2-ND	75	183.83	EMVA500GDA102MLN0S
	1000	MN0	0.18	1400	18.0	21.5	565-2139-1-ND	21.24	37.76	91.45	565-2139-2-ND	75	190.28	EMVA500ADA102MMN0S
63	0.10	D55	0.12	1.3	4.0	5.2	565-2140-1-ND	2.15	3.28	7.18	565-2140-2-ND	2,000	73.80/M	EMVA630ADAR10MD55G
	0.22	D55	0.12	3.0	4.0	5.2	565-2141-1-ND	2.15	3.28	7.18	565-2141-2-ND	2,000	73.80/M	EMVA630ADAR22MD55G
	0.47	D55	0.12	5.0	4.0	5.2	565-2143-1-ND	2.15	3.28	7.18	565-2143-2-ND	2,000	73.80/M	EMVA630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2144-1-ND	2.15	3.28	7.18	565-2144-2-ND	2,000	73.80/M	EMVA630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2145-1-ND	2.15	3.28	7.18	565-2145-2-ND	2,000	73.80/M	EMVA630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2146-1-ND	2.52	3.84	8.40	—	—	—	EMVA630ADA3R3ME55G
	4.7	E55	0.12	20	5.0	5.2	565-2147-1-ND	2.52	3.84	8.40	565-2147-2-ND	1,000	91.20	EMVA630ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2148-1-ND	2.73	4.16	9.10	565-2148-2-ND	1,000	98.80	EMVA630ADA100MF55G
	22	F80	0.12	60	6.3	7.7	565-2149-1-ND	3.26	4.96	10.85	565-2149-2-ND	900	111.60	EMVA630ADA220MF80G
	33	HA0	0.12	110	8.0	10.0	565-2150-1-ND	3.48	5.83	11.96	565-2150-2-ND	500	87.00	EMVA630ADA330MHA0G
	47	HA0	0.12	130	8.0	10.0	565-2151-1-ND	3.52	5.90	12.10	565-2151-2-ND	500	88.00	EMVA630ADA470MHA0G
	68	JA0	0.12	170	10.0	10.0	565-2153-1-ND	4.20	7.04	14.44	565-2153-2-ND	500	105.00	EMVA630ADA680MJA0G
	100	KE0	0.14	380	12.5	13.5	565-2154-1-ND	9.00	14.76	33.30	—	—	—	EMVA630ARA101MKE0S
	220	KE0	0.14	580	12.5	13.5	565-2155-1-ND	9.73	15.95	35.98	—	—	—	EMVA630ARA221MKE0S
	330	KG5	0.14	720	12.5	16.0	565-2156-1-ND	15.13	25.65	53.24	565-2156-2-ND	150	163.35	EMVA630ARA331MKG5S
	330	LH0	0.14	820	16.0	16.5	565-2157-1-ND	20.15	33.42	79.87	565-2157-2-ND	125	258.04	EMVA630GDA331MLH0S
	470	LH0	0.14	950	16.0	16.5	565-2158-1-ND	18.18	32.32	78.28	565-2158-2-ND	125	246.19	EMVA630GDA471MLH0S
	470	MH0	0.14	1000	18.0	16.5	565-2159-1-ND	19.08	33.92	82.15	—	—	—	EMVA630GDA471MMH0S
100	22	HA0	0.12	90	8.0	10.0	565-2160-1-ND	3.56	5.96	12.24	565-2160-2-ND	500	89.00	EMVA101ADA220MHA0G
	33	JA0	0.12	120	10.0	10.0	565-2161-1-ND	4.36	7.30	14.99	565-2161-2-ND	500	109.00	EMVA101ADA330MJA0G
	100	KE0	0.10	440	12.5	13.5	565-2163-1-ND	9.55	15.66	35.34	565-2163-2-ND	200	171.90	EMVA101ARA101MKE0S
	220	LN0	0.10	850	16.0	21.5	565-2164-1-ND	19.62	34.88	84.48	—	—	—	EMVA101GDA221MLN0S
	220	MH0	0.10	800	18.0	16.5	565-2165-1-ND	18.90	33.60	81.38	—	—	—	EMVA101GDA221MMH0S
	330	MN0	0.10	1000	18.0	21.5	565-2166-1-ND	21.06	37.44	90.68	565-2166-2-ND	75	188.66	EMVA101GDA331MMN0S
MVE Series — 105°C														
16	10	D55	0.20	17	4.0	5.2	565-2201-1-ND	3.20	4.88	10.68	565-2201-2-ND	2,000	109.80/M	EMVE160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2202-1-ND	2.88	4.82	9.90	565-2202-2-ND	1,000	122.40	EMVE160ADA220ME55G
	33	F55	0.20	45	6.3	5.2	565-2203-1-ND	2.88	4.82	9.90	565-2203-2-ND	1,000	122.40	EMVE160ADA330MF55G
	47	F55	0.20	48	6.3	5.2	565-2200-1-ND	2.88	4.82	9.90	565-2200-2-ND	1,000	122.40	EMVE160ADA470MF55G
	100	F55	0.26	69	6.3	5.2	565-2204-1-ND	3.04	5.09	10.45	565-2204-2-ND	1,000	129.20	EMVE160ADA101MF55G
	150	F80	0.28	100	6.3	7.7	565-2205-1-ND	3.64	6.10	12.51	565-2205-2-ND	900	147.42	EMVE160ADA151MF80G
	220	F80	0.28	120	6.3	7.7	565-2206-1-ND	3.64	6.10	12.51	565-2206-2-ND	900	147.42	EMVE160ADA221MF80G
	330	HA0	0.28	290	8.0	10.0	565-2207-1-ND	4.31	7.31	15.18	565-2207-2-ND	500	131.10	EMVE160ADA331MHA0G
	470	HA0	0.28	320	8.0	10.0	565-2208-1-ND	4.41	7.47	15.51	565-2208-2-ND	500	133.95	EMVE160ADA471MHA0G
	680	JA0	0.28	470	10.0	10.0	565-2209-1-ND	5.19	8.80	18.26	565-2209-2-ND	500	157.70	EMVE160ADA681MJA0G
	1000	KE0	0.30	550	12.5	13.5	565-2210-1-ND	9.53	15.62	35.24	565-2210-2-ND	200	171.45	EMVE160ARA102MKE0S
	1000	LH0	0.30	650	16.0	16.5	565-2211-1-ND	20.23	33.56	80.19	—	—	—	EMVE160GDA102MLH0S
	2200	LH0	0.32	950	16.0	16.5	565-2212-1-ND	18.54	32.96	79.83	565-2212-2-ND	125	251.06	EMVE160GDA222MLH0S
	2200	MH0	0.32	1000	18.0	16.5	565-2213-1-ND	18.90	33.60	81.38	565-2213-2-ND	125	255.94	EMVE160GDA222MMH0S
	3300	MH0	0.34	1200	18.0	16.5	565-2215-1-ND	19.80	35.20	85.25	—	—	—	EMVE160GDA332MMH0S
25	10	E55	0.16	27	5.0	5.2	565-2216-1-ND	2.88	4.82	9.90	565-2216-2-ND	1,000	122.40	EMVE250ADA100ME55G
	22	F55	0.16	44	6.3	5.2	565-2217-1-ND	2.92	4.89	10.04	565-2217-2-ND	1,000	124.10	EMVE250ADA220MF55G
	33	F55	0.16	50	6.3	5.2	565-2218-1-ND	2.92	4.89	10.04	565-2218-2-ND	1,000	124.10	EMVE250ADA330MF55G
	47	F55	0.16	60	6.3	5.2	565-2219-1-ND	3.08	5.16	10.59	565-2219-2-ND	1,000	130.90	EMVE250ADA470MF55G
	100	F80	0.18	100	6.3	7.7	565-2220-1-ND	3.68	6.16	12.65	565-2220-2-ND	900	149.04	EMVE250ADA101MF80G
	150	HA0	0.18	240	8.0	10.0	565-2221-1-ND	4.25	7.21	14.96	565-2221-2-ND	500	129.20	EMVE250ADA151MHA0G
	220	HA0	0.18	320	8.0	10.0	565-2222-1-ND	4.19	7.10	14.74	565-2222-2-ND	500	127.30	EMVE250ADA221MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2223-1-ND	5.31	9.01	18.70	565-2223-2-ND	500	161.50	EMVE250ADA331MJA0G
	470	JA0	0.18	490	10.0	10.0	565-2224-1-ND	5.28	8.96	18.59	565-2224-2-ND	500	160.55	EMVE250ADA471MJA0G
	1000	LH0	0.26	820	16.0	16.5	565-2225-1-ND	18.00	32.00	77.50	565-2225-2-ND	125	243.75	EMVE250GDA102MLH0S
	2200	MN0	0.28	1300	18.0	21.5	565-2228-1-ND	21.24	37.76	91.45	565-2228-2-ND	75	190.28	EMVE250GDA222MMN0S
35	4.7	D55	0.14	16	4.0	5.2	565-2229-1-ND	3.20	4.88	10.68	565-2229-2-ND	2,000	109.80/M	EMVE350ADA4R7MD55G
	10	E55	0.14	27	5.0	5.2	565-2230-1-ND	2.88	4.82	9.90	565-2230-2-ND	1,000	122.40	EMVE350ADA100ME55G
	22	F55	0.14	44	6.3	5.2	565-2231-1-ND	3.04	5.09	10.45	565-2231-2-ND	1,000	129.20	EMVE350ADA220MF55G
	33	F60	0.14	54	6.3	5.7	565-2232-1-ND	3.24	5.43	11.14	565-2232-2-ND	1,000	137.70	EMVE350ADA330MF60G
	47	F80	0.16	80	6.3	7.7	565-2233-1-ND	3.80	6.37	13.06	565-2233-2-ND	900	153.90	EMVE350ADA470MF80G
	100	F80	0.16	100	6.3	7.7	565-2234-1-ND	3.88	6.50	13.34	565-2234-2-ND	900	157.14	EMVE350ADA101MF80G
	150	HA0	0.16	260	8.0	10.0	565-2235-1-ND	4.25	7.21	14.96	565-2235-2-ND	500	129.20	EMVE350ADA151MHA0G
	220	JA0	0.16	375	10.0	10.0	565-2236-1-ND	5.28	8.96	18.59	565-2236-2-ND	500	160.55	EMVE350ADA221MJA0G
	330	JA0	0.16	450	10.0	10.0	565-2237-1-ND	5.34	9.06	18.81	565-2237-2-ND	500	162.45	EMVE350ADA331MJA0G
	470	KE0	0.22	520	12.5	13.5	565-2238-1-ND	9.70	15.91	35.89	565-2238-2-ND	200	174.60	EMVE350ARA471MKE0S
	470	LH0	0.22	650	16.0	16.5	565-2239-1-ND	20.42	33.86	80.93	—	—	—	EMVE350GDA471MLH0S
	1000	LH0	0.22	750	16.0	16.5	565-2240-1-ND	18.72	33.28	80.60	565-2240-2-ND	125	253.50	EMVE350GDA102MLH0S
	1000	MH0	0.22	1000	18.0	16.5	565-2241-1-ND	19.26	34.24	82.93	—	—	—	EMVE350GDA102MMH0S
	2200	MN0	0.24	1450	18.0	21.5	565-2242-1-ND	22.68	40.32	97.65	565-2242-2-ND	75	203.18	EMVE350GDA222MMN0S
50	0.47	D55	0.12	5.0	4.0	5.2	565-2243-1-ND	3.20	4.88	10.68	565-2243-2-ND	2,000	109.80/M	EMVE500ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2244-1-ND	3.20	4.88	10.68	565-2244-2-ND	2,000	109.80/M	EMVE500ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2245-1-ND	3.20	4.88	10.68	—	—	—	EMVE500ADA2R2MD55G
	3.3	D55	0.12	15	4.0	5.2	565-2246-1-ND	3.20	4.88	10.68	565-2246-2-ND	2,000	109.80/M	EMVE500ADA3R3MD55G
	4.7	E55	0.12	20	5.0	5.2	565-2247-1-ND	2.88	4.82	9.90	—	—	—	EMVE500ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2248-1-ND	3.00	5.03	10.31	565-2248-2-ND	1,000	127.50	EMVE500ADA100MF55G
	22	F60	0.12	47	6.3	5.7	565-2249-1-ND	3.24	5.43	11.14	565-2249-2-ND	1,000	137.70	EMVE500ADA220MF60G

(Continued)

Alchip™ MVA/MVE Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
50	33	F80	0.14	65	6.3	7.7	565-2250-1-ND	3.84	6.43	13.20	565-2250-2-ND	900	155.52	EMVE500ADA330MF80G
	47	F80	0.14	80	6.3	7.7	565-2251-1-ND	3.88	6.50	13.34	565-2251-2-ND	900	157.14	EMVE500ADA470MF80G
	100	HA0	0.14	230	8.0	10.0	565-2252-1-ND	4.25	7.21	14.96	565-2252-2-ND	500	129.20	EMVE500ADA101MHA0G
	220	JA0	0.14	375	10.0	10.0	565-2253-1-ND	5.41	9.17	19.03	565-2253-2-ND	500	164.35	EMVE500ADA221MJA0G
	330	KE0	0.18	500	12.5	13.5	565-2254-1-ND	10.03	16.44	37.09	565-2254-2-ND	200	180.45	EMVE500ARA331MKE0S
	470	LH0	0.18	700	16.0	16.5	565-2256-1-ND	18.36	32.64	79.05	565-2256-2-ND	125	248.63	EMVE500GDA471MLH0S
	1000	MN0	0.18	1200	18.0	21.5	565-2258-1-ND	21.96	39.04	94.55	—	—	—	EMVE500GDA102MMN0S
63	0.47	D55	0.12	5.0	4.0	5.2	565-2259-1-ND	3.20	4.88	10.68	—	—	—	EMVE630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2260-1-ND	3.20	4.88	10.68	565-2260-2-ND	2,000	109.80/M	EMVE630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2261-1-ND	3.31	5.04	11.03	—	—	—	EMVE630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2262-1-ND	2.92	4.89	10.04	565-2262-2-ND	1,000	124.10	EMVE630ADA3R3ME55G
	4.7	F55	0.12	22	6.3	5.2	565-2263-1-ND	3.12	5.23	10.73	565-2263-2-ND	1,000	132.60	EMVE630ADA4R7MF55G
	10	F55	0.12	32	6.3	5.2	565-2264-1-ND	3.16	5.29	10.86	565-2264-2-ND	1,000	134.30	EMVE630ADA100MF55G
	22	F80	0.12	58	6.3	7.7	565-2265-1-ND	3.76	6.30	12.93	565-2265-2-ND	900	152.28	EMVE630ADA220MF80G
	33	HA0	0.12	140	8.0	10.0	565-2266-1-ND	4.16	7.05	14.63	—	—	—	EMVE630ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2267-1-ND	4.22	7.16	14.85	565-2267-2-ND	500	128.25	EMVE630ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2268-1-ND	5.22	8.85	18.37	565-2268-2-ND	500	158.65	EMVE630ADA101MJA0G
	220	KE0	0.14	470	12.5	13.5	565-2269-1-ND	10.03	16.44	37.09	565-2269-2-ND	200	180.45	EMVE630ARA221MKE0S
	220	LH0	0.14	560	16.0	16.5	565-2270-1-ND	20.36	33.76	80.68	—	—	—	EMVE630GDA221MLH0S
	470	LN0	0.14	900	16.0	21.5	565-2273-1-ND	20.16	35.84	86.80	—	—	—	EMVE630GDA471MLN0S
100	22	HA0	0.12	100	8.0	10.0	565-2275-1-ND	4.28	7.26	15.07	565-2275-2-ND	500	130.15	EMVE101ADA220MHA0G
	33	JA0	0.12	150	10.0	10.0	565-2276-1-ND	5.31	9.01	18.70	565-2276-2-ND	500	161.50	EMVE101ADA330MJA0G
	47	KE0	0.10	250	12.5	13.5	565-2277-1-ND	9.28	15.21	34.32	565-2277-2-ND	200	166.95	EMVE101ARA470MKE0S
	68	KE0	0.10	300	12.5	13.5	565-2278-1-ND	9.45	15.50	34.97	565-2278-2-ND	200	170.10	EMVE101ARA680MKE0S
	100	LH0	0.10	450	16.0	16.5	565-2279-1-ND	18.18	32.32	78.28	565-2279-2-ND	125	246.19	EMVE101GDA101MLH0S
	100	KE0	0.10	380	12.5	13.5	565-2280-1-ND	9.93	16.28	36.72	565-2280-2-ND	200	178.65	EMVE101ARA101MKE0S
	220	LN0	0.10	750	16.0	21.5	565-2281-1-ND	20.70	36.80	89.13	—	—	—	EMVE101GDA221MLN0S
	220	MH0	0.10	750	18.0	16.5	565-2282-1-ND	19.80	35.20	85.25	565-2282-2-ND	125	268.13	EMVE101GDA221MMH0S
	330	MN0	0.10	980	18.0	21.5	565-2283-1-ND	22.14	39.36	95.33	—	—	—	EMVE101GDA331MMN0S

Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT)

High Temperature 125°C

Features: • 125°C Maximum Temperature (1000 ~ 5000 Hour Life) • Solvent Proof (25 -50V)
Specifications: • **Operating Temperature:** -40°C ~ 125°C • **Capacitance Tolerance:** ±20%
Case Dimensions:

Size Code	D	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16.0	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16.0	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18.0	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18.0	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: F60 ~ KG5

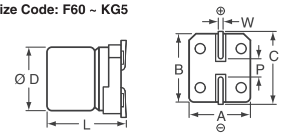

Terminal Code: G
Size Code: LH0 ~ MN0

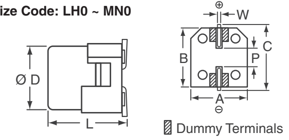

Leakage Current @ 20°C 120Hz:

Case F60 to JA0	I=0.01CV or 3µA, whichever is greater
Case KE0 to MN0	I=0.03CV or 4µA, whichever is greater

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	25	35	50	63	100
Case F60-JA0	0.16	0.14	0.14	0.12	0.10
Case KE0-MN0	0.16	0.14	0.12	0.14	0.10

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100kHz 20°C	Maximum ESR (Ω) @ 100kHz -40°C	Rated Ripple Current (mA RMS) 100kHz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
25	33	F60	1.6	24.0	69	6.3	5.7	565-2299-1-ND	2.80	4.69	9.63	565-2299-2-ND	1,000	119.00	EMVH250ADA330MF60G
	47	F80	0.90	14.0	110	6.3	7.7	565-2300-1-ND	3.44	5.76	11.83	565-2300-2-ND	900	139.32	EMVH250ADA470MF80G
	47	H63	0.90	14.0	110	8.0	6.3	565-2301-1-ND	3.92	6.57	13.48	565-2301-2-ND	1,000	166.60	EMVH250ADA470MH63G
	100	HA0	0.40	6.0	220	8.0	10.0	565-2302-1-ND	5.04	8.44	17.33	565-2302-2-ND	500	126.00	EMVH250ADA101MHA0G
	220	JA0	0.30	4.5	296	10.0	10.0	565-2303-1-ND	5.00	8.48	17.60	565-2303-2-ND	500	152.00	EMVH250ADA221MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2304-1-ND	9.10	14.92	33.67	565-2304-2-ND	200	163.80	EMVH250ARA331MKE0S
	470	KE0	0.14	2.1	750	12.5	13.5	565-2305-1-ND	9.18	15.05	33.95	—	—	—	EMVH250ARA471MKE0S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2306-1-ND	18.68	30.97	74.02	565-2306-2-ND	125	239.14	EMVH250GDA471MLH0S
	680	LH0	0.10	1.5	1000	16.0	16.5	565-2307-1-ND	18.68	30.97	74.02	565-2307-2-ND	125	239.14	EMVH250GDA681MLH0S
	1000	MN0	0.058	0.87	1550	18.0	21.5	565-2309-1-ND	20.52	36.48	88.35	565-2309-2-ND	75	183.83	EMVH250GDA102MMN0S
35	10	F60	1.6	24.0	69	6.3	5.7	565-2310-1-ND	2.80	4.69	9.63	565-2310-2-ND	1,000	119.00	EMVH350ADA100MF60G
	22	F60	1.6	24.0	69	6.3	5.7	565-2311-1-ND	2.80	4.69	9.63	565-2311-2-ND	1,000	119.00	EMVH350ADA220MF60G
	33	F80	0.90	14.0	110	6.3	7.7	565-2312-1-ND	3.48	5.83	11.96	—	—	—	EMVH350ADA330MF80G
	33	H63	0.90	14.0	110	8.0	6.3	565-2313-1-ND	3.92	6.57	13.48	565-2313-2-ND	1,000	166.60	EMVH350ADA330MH63G
	47	HA0	0.40	6.0	220	8.0	10.0	565-2314-1-ND	5.00	8.38	17.19	565-2314-2-ND	500	125.00	EMVH350ADA470MHA0G
	100	JA0	0.30	4.5	296	10.0	10.0	565-2315-1-ND	5.03	8.53	17.71	565-2315-2-ND	500	152.95	EMVH350ADA101MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2316-1-ND	9.18	15.05	33.95	565-2316-2-ND	200	165.15	EMVH350ARA331MKE0S
	330	LH0	0.10	1.5	1000	16.0	16.5	565-2317-1-ND	18.74	31.08	74.26	565-2317-2-ND	125	239.93	EMVH350GDA331MLH0S
	470	KG5	0.11	1.5	900	12.5	16.0	565-2318-1-ND	11.90	19.52	44.03	565-2318-2-ND	150	160.65	EMVH350ARA471MKG5S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2319-1-ND	18.84	31.25	74.67	565-2319-2-ND	125	241.24	EMVH350GDA471MLH0S
	680	MH0	0.10	1.5	1200	18.0	16.5	565-2320-1-ND	20.38	33.80	80.76	565-2320-2-ND	125	260.93	EMVH350GDA681MMH0S
50	10	F60	2.8	42.0	51	6.3	5.7	565-2321-1-ND	3.62	5.52	12.08	565-2321-2-ND	1,000	131.10	EMVH500ADA100MF60G
	22	F80	2.0	30.0	83	6.3	7.7	565-2322-1-ND	3.40	5.70	11.69	565-2322-2-ND	900	137.70	EMVH500ADA220MF80G
	22	H63	1.6	30.0	83	8.0	6.3	565-2323-1-ND	3.88	6.50	13.34	565-2323-2-ND	1,000	164.90	EMVH500ADA220MH63G
	33	HA0	0.70	11.0	160	8.0	10.0	565-2324-1-ND	4.96	8.31	17.05	565-2324-2-ND	500	124.00	EMVH500ADA330MHA0G
	47	JA0	0.50	7.5	247	10.0	10.0	565-2325-1-ND	4.91	8.32	17.27	565-2325-2-ND	500	149.15	EMVH500ADA470MJA0G
	100	KE0	0.23	3.5	550	12.5	13.5	565-2326-1-ND	8.78	14.39	32.47	565-2326-2-ND	200	157.95	EMVH500ARA101MKE0S
	220	KE0	0.23	3.5	550	12.5	13.5	565-2327-1-ND	9.03	14.80	33.39	565-2327-2-ND	200	162.45	EMVH500ARA221MKE0S
	220	LH0	0.15	2.3	850	16.0	16.5	565-2328-1-ND	18.31	30.36	72.56	565-2328-2-ND	125	234.41	EMVH500GDA221MLH0S
	330	KG5	0.18	2.7	700	12.5	16.0	565-2329-1-ND	11.55	18.94	42.74	565-2329-2-ND	150	155.93	EMVH500ARA331MKG5S
	330	LH0	0.15	2.3	850	16.0	16.5	565-2330-1-ND	18.41	30.53	72.96	565-2330-2-ND	125	235.73	EMVH500GDA331MLH0S
	470	MH0	0.15	2.3	920	18.0	16.5	565-2331-1-ND	19.93	33.05	78.98	565-2331-2-ND	125	255.15	EMVH500GDA471MMH0S
63	10	F80	2.0	100	60	6.3	7.7	565-2332-1-ND	3.08	5.16	10.59	565-2332-2-ND	900	124.74	EMVH630ADA100MF80G
	10	H63	2.0	110	60	8.0	6.3	565-2333-1-ND	3.60	6.03	12.38	565-2333-2-ND	1,000	153.00	EMVH630ADA100MH63G
	22	HA0	0.70	35.0	100	8.0	10.0	565-2334-1-ND	4.32	7.24	14.85	565-2334-2-ND	500	108.00	EMVH630ADA220MHA0G
	33	JA0	0.50	25.0	170	10.0	10.0	565-2335-1-ND	4.13	7.00	14.52	565-2335-2-ND	500	125.40	EMVH630ADA330MJA0G
	100	KE0	0.25	12.5	500	12.5	13.5	565-2336-1-ND	7.98	13.08	29.51	565-2336-2-ND	200	143.55	EMVH630ARA101MKE0S
	220	KG5	0.20	10.0	600	12.5	16.0	565-2337-1-ND	10.50	17.22	38.85	565-2337-2-ND	150	141.75	EMVH630ARA221MKG5S
	330	LH0	0.18	9.0	820	16.0	16.5	565-2338-1-ND	17.59	29.17	69.71	565-2338-2-ND	125	225.23	EMVH630GDA331MLH0S
	470	LN0	0.11	5.5	1100	16.0	21.5	565-2339-1-ND	19.89	32.98	78.81	565-2339-2-ND	75	174.60	EMVH630GDA471MLN0S
100	10	HA0	0.75	50.0	70	8.0	10.0	565-2340-1-ND	4.32	7.24	14.85	565-2340-2-ND	500	108.00	EMVH101ADA100MHA0G

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100kHz 20°C	Maximum ESR (Ω) @ 100kHz -40°C	Rated Ripple Current (mA RMS) 100kHz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
100	22	JA0	0.55	35.0	115	10.0	10.0	565-2341-1-ND	4.16	7.05	14.63	565-2341-2-ND	500	126.35	EMVH101ADA220MJA0G
	47	KE0	0.33	16.5	450	12.5	13.5	565-2342-1-ND	8.38	13.74	30.99	565-2342-2-ND	200	150.75	EMVH101ARA470MKE0S
	68	KG5	0.26	13.0	550	12.5	16.0	565-2343-1-ND	10.90	17.88	40.33	565-2343-2-ND	150	147.15	EMVH101ARA680MKG5S
	100	LH0	0.24	12.0	650	16.0	16.5	565-2344-1-ND	18.41	30.53	72.96	565-2344-2-ND	125	235.73	EMVH101GDA101MLH0S
	220	MN0	0.16	8.0	950	18.0	21.5	565-2345-1-ND	20.70	36.80	89.13	565-2345-2-ND	75	185.44	EMVH101GDA221MMN0S

Alchip™ MVK Series Aluminum Electrolytic Capacitors (SMT)

General Purpose Low Profile 105°C

Features:

• General Purpose • Low Profile • Solvent Proof • 105°C Maximum Temperature (1000 ~ 2000 Hour Life)

Specifications:

• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current @ 20°C after 2 Minutes:** I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4.0	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5.0	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

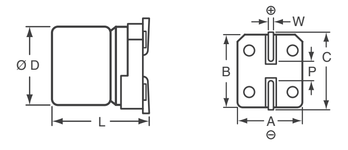

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
6.3	22	D55	0.30	21	4.0	5.2	565-2346-1-ND	2.36	3.60	7.88	565-2346-2-ND	2,000	81.00/M	EMVK6R3ADA220MD55G
	47	E55	0.30	36	5.0	5.2	565-2347-1-ND	2.78	4.24	9.28	565-2347-2-ND	1,000	100.70	EMVK6R3ADA470ME55G
	100	F55	0.30	56	6.3	5.2	565-2348-1-ND	2.94	4.48	9.80	565-2348-2-ND	1,000	106.40	EMVK6R3ADA101MF55G
10	100	H63	0.30	90	8.0	6.3	565-2352-1-ND	3.28	5.49	11.28	565-2352-2-ND	1,000	139.40	EMVK100ADA101MH63G
	220	HA0	0.30	180	8.0	10.0	565-2353-1-ND	3.92	6.57	13.48	565-2353-2-ND	500	98.00	EMVK100ADA221MHA0G
16	10	D55	0.20	16	4.0	5.2	565-2354-1-ND	2.42	3.68	8.05	565-2354-2-ND	2,000	82.80/M	EMVK160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2355-1-ND	2.78	4.24	9.28	565-2355-2-ND	1,000	100.70	EMVK160ADA220ME55G
	47	F55	0.20	48	6.3	5.2	565-2356-1-ND	2.94	4.48	9.80	565-2356-2-ND	1,000	106.40	EMVK160ADA470MF55G
	470	JA0	0.26	460	10.0	10.0	565-2357-1-ND	4.68	7.84	16.09	565-2357-2-ND	500	117.00	EMVK160ADA471MJA0G
25	33	F55	0.16	45	6.3	5.2	565-2358-1-ND	2.94	4.48	9.80	565-2358-2-ND	1,000	106.40	EMVK250ADA330MF55G
	47	H63	0.16	80	8.0	6.3	565-2359-1-ND	3.28	5.49	11.28	565-2359-2-ND	1,000	139.40	EMVK250ADA470MH63G
	100	HA0	0.16	180	8.0	10.0	565-2360-1-ND	4.00	6.70	13.75	565-2360-2-ND	500	100.00	EMVK250ADA101MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2361-1-ND	4.96	8.31	17.05	565-2361-2-ND	500	124.00	EMVK250ADA331MJA0G
35	4.7	D55	0.14	15	4.0	5.2	565-2362-1-ND	2.36	3.60	7.88	565-2362-2-ND	2,000	81.00/M	EMVK350ADA4R7MD55G
	10	E55	0.14	25	5.0	5.2	565-2363-1-ND	2.78	4.24	9.28	565-2363-2-ND	1,000	100.70	EMVK350ADA100ME55G
	22	F55	0.14	40	6.3	5.2	565-2364-1-ND	2.94	4.48	9.80	565-2364-2-ND	1,000	106.40	EMVK350ADA220MF55G
	33	H63	0.14	80	8.0	6.3	565-2365-1-ND	3.24	5.43	11.14	565-2365-2-ND	1,000	137.70	EMVK350ADA330MH63G
	220	JA0	0.14	375	10.0	10.0	565-2366-1-ND	4.96	8.31	17.05	565-2366-2-ND	500	124.00	EMVK350ADA221MJA0G
50	0.22	D55	0.12	2.6	4.0	5.2	565-2368-1-ND	2.36	3.60	7.88	—	—	—	EMVK500ADAR22MD55G
	0.33	D55	0.12	3.2	4.0	5.2	565-2369-1-ND	2.36	3.60	7.88	565-2369-2-ND	2,000	81.00/M	EMVK500ADAR33MD55G
	0.47	D55	0.12	3.8	4.0	5.2	565-2370-1-ND	2.36	3.60	7.88	—	—	—	EMVK500ADAR47MD55G
	1.0	D55	0.12	5.6	4.0	5.2	565-2371-1-ND	2.36	3.60	7.88	565-2371-2-ND	2,000	81.00/M	EMVK500ADA1R0MD55G
	2.2	D55	0.12	10	4.0	5.2	565-2372-1-ND	2.36	3.60	7.88	565-2372-2-ND	2,000	81.00/M	EMVK500ADA2R2MD55G
	3.3	D55	0.12	14	4.0	5.2	565-2373-1-ND	2.36	3.60	7.88	—	—	—	EMVK500ADA3R3MD55G
	4.7	E55	0.12	19	5.0	5.2	565-2374-1-ND	2.73	4.16	9.10	565-2374-2-ND	1,000	98.80	EMVK500ADA4R7ME55G
	10	F55	0.12	29	6.3	5.2	565-2375-1-ND	2.89	4.40	9.63	565-2375-2-ND	1,000	104.50	EMVK500ADA100MF55G
	22	H63	0.12	70	8.0	6.3	565-2376-1-ND	3.28	5.49	11.28	565-2376-2-ND	1,000	139.40	EMVK500ADA220MH63G
	33	HA0	0.12	140	8.0	10.0	565-2377-1-ND	3.88	6.50	13.34	565-2377-2-ND	500	97.00	EMVK500ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2378-1-ND	3.96	6.63	13.61	565-2378-2-ND	500	99.00	EMVK500ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2379-1-ND	4.92	8.24	16.91	565-2379-2-ND	500	123.00	EMVK500ADA101MJA0G
Bi-Polar Series														
10	33	F60	0.26	35	6.3	5.7	565-2382-1-ND	1.28	2.10	4.88	565-2382-2-ND	1,000	114.00	BMVK100ADA330MF60G

Alchip™ MVY Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 105°C

Features: • Low Impedance • Solvent Proof (6.3V ~ 63V) • 105°C Maximum Temperature (1000 ~ 5000 Hour Life)
Specifications: • **Operating Temperature Range:** -55°C ~ 105°C (6.3-63V),-40°C ~ 105°C (100V) • **Capacitance Tolerance:** ±20% • **Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: D55 ~ KE0

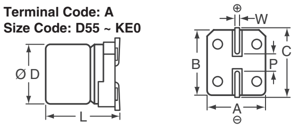

Terminal Code: G
Size Code: LH0 ~ MN0

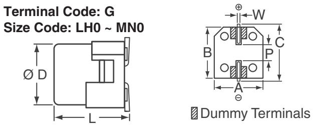

▨ Dummy Terminals

Dissipation Factor @ 20°C 120 Hz:

Rated Voltage (Vdc)		**6.3V**	**16V**	**25V**	**35V**	**50V**	**63V**	**100V**
tan δ (Max.)	D55 to F80	0.24	0.16	0.14	0.12	0.12	—	—
	HA0 to JA0	0.28	0.20	0.16	0.14	0.12	—	—
	KE0 to MN0	0.26	0.18	0.16	0.14	0.12	0.14	0.10

When nominal capacitance exceeds 1,000µF, add 0.02 to the value above for each 1,000µF increase.

Rated W.V. (VDC)	Cap. (µF)	Size Code	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
6.3	47	E55	1.8	95	5.0	5.2	565-2409-1-ND	2.45	3.50	7.44	565-2409-2-ND	1,000	73.50	EMVY6R3ADA470ME55G
	100	F55	1.0	140	6.3	5.2	565-2410-1-ND	2.84	4.32	9.45	565-2410-2-ND	1,000	102.60	EMVY6R3ADA101MF55G
	220	F55	1.0	140	6.3	5.2	565-2411-1-ND	3.10	4.72	10.33	565-2411-2-ND	1,000	112.10	EMVY6R3ADA221MF55G
	330	F80	0.34	280	6.3	7.7	565-2412-1-ND	3.62	5.52	12.08	565-2412-2-ND	900	124.20	EMVY6R3ADA331MF80G
	1000	HA0	0.30	450	8.0	10.0	565-2415-1-ND	3.92	6.57	13.48	565-2415-2-ND	500	98.00	EMVY6R3ADA102MHA0G
	1500	JA0	0.15	670	10.0	10.0	565-2416-1-ND	4.84	8.11	16.64	565-2416-2-ND	500	121.00	EMVY6R3ADA152MJA0G

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Alchip™ MVY Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					D	L		5	10	25		Qty.	Pricing	
16	10	D55	3.0	60	4.0	5.2	565-2442-1-ND	2.26	3.44	7.53	565-2442-2-ND	2,000	77.40/M	EMVY160ADA100MD55G
	22	E55	1.8	95	5.0	5.2	565-2443-1-ND	2.73	3.90	8.29	565-2443-2-ND	1,000	81.90	EMVY160ADA220ME55G
	33	F55	1.0	140	6.3	5.2	565-2444-1-ND	2.63	4.00	8.75	—	—	—	EMVY160ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2445-1-ND	2.42	3.68	8.05	565-2445-2-ND	1,000	87.40	EMVY160ADA470MF55G
	100	F55	1.0	140	6.3	5.2	565-2446-1-ND	2.57	3.92	8.58	565-2446-2-ND	1,000	93.10	EMVY160ADA101MF55G
	220	F80	0.34	280	6.3	7.7	565-2447-1-ND	3.26	4.96	10.85	565-2447-2-ND	900	111.60	EMVY160ADA221MF80G
	330	HA0	0.30	450	8.0	10.0	565-2448-1-ND	3.76	6.30	12.93	565-2448-2-ND	500	94.00	EMVY160ADA331MHA0G
	470	HA0	0.30	450	8.0	10.0	565-2449-1-ND	3.84	6.43	13.20	565-2449-2-ND	500	96.00	EMVY160ADA471MHA0G
	680	JA0	0.15	670	10.0	10.0	565-2450-1-ND	4.76	7.97	16.36	565-2450-2-ND	500	119.00	EMVY160ADA681MJA0G
	1000	KE0	0.070	820	12.5	13.5	565-2451-1-ND	7.05	11.56	26.09	565-2451-2-ND	200	126.90	EMVY160ARA102MKE0S
25	10	E55	1.8	95	5.0	5.2	565-2458-1-ND	2.73	4.16	9.10	565-2458-2-ND	1,000	98.80	EMVY250ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2459-1-ND	2.78	4.24	9.28	565-2459-2-ND	1,000	100.70	EMVY250ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2460-1-ND	2.78	4.24	9.28	565-2460-2-ND	1,000	100.70	EMVY250ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2461-1-ND	2.78	4.24	9.28	565-2461-2-ND	1,000	100.70	EMVY250ADA470MF55G
	100	F80	0.34	280	6.3	7.7	565-2462-1-ND	3.52	5.36	11.73	565-2462-2-ND	900	120.60	EMVY250ADA101MF80G
	220	HA0	0.30	450	8.0	10.0	565-2463-1-ND	3.80	6.37	13.06	565-2463-2-ND	500	95.00	EMVY250ADA221MHA0G
	330	HA0	0.30	450	8.0	10.0	565-2464-1-ND	3.88	6.50	13.34	565-2464-2-ND	500	97.00	EMVY250ADA331MHA0G
	470	JA0	0.15	670	10.0	10.0	565-2465-1-ND	4.84	8.11	16.64	565-2465-2-ND	500	121.00	EMVY250ADA471MJA0G
	2200	LN0	0.038	1630	16.0	21.5	565-2468-1-ND	16.91	28.05	67.03	565-2468-2-ND	75	148.50	EMVY250GDA222MLN0S
	2200	MN0	0.038	1750	18.0	21.5	565-2469-1-ND	17.67	29.31	70.04	—	—	—	EMVY250GDA222MMN0S
	3300	MN0	0.038	1750	18.0	21.5	565-2470-1-ND	18.63	30.91	73.86	565-2470-2-ND	75	163.62	EMVY250GDA332MMN0S
35	4.7	D55	3.0	60	4.0	5.2	565-2471-1-ND	2.21	3.36	7.35	565-2471-2-ND	2,000	75.60/M	EMVY350ADA4R7MD55G
	10	E55	1.8	95	5.0	5.2	565-2472-1-ND	2.52	3.84	8.40	565-2472-2-ND	1,000	91.20	EMVY350ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2473-1-ND	2.84	4.32	9.45	565-2473-2-ND	1,000	102.60	EMVY350ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2474-1-ND	2.99	4.56	9.98	565-2474-2-ND	1,000	108.30	EMVY350ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2475-1-ND	2.94	4.48	9.80	565-2475-2-ND	1,000	106.40	EMVY350ADA470MF55G
	68	F80	0.34	280	6.3	7.7	565-2476-1-ND	3.57	5.44	11.90	565-2476-2-ND	900	122.40	EMVY350ADA680MF80G
	100	HA0	0.30	450	8.0	10.0	565-2477-1-ND	3.80	6.37	13.06	565-2477-2-ND	500	95.00	EMVY350ADA101MHA0G
	220	HA0	0.30	450	8.0	10.0	565-2478-1-ND	3.92	6.57	13.48	565-2478-2-ND	500	98.00	EMVY350ADA221MHA0G
	330	JA0	0.15	670	10.0	10.0	565-2479-1-ND	4.88	8.17	16.78	565-2479-2-ND	500	122.00	EMVY350ADA331MJA0G
	470	KE0	0.070	820	12.5	13.5	565-2480-1-ND	7.10	11.64	26.27	565-2480-2-ND	200	127.80	EMVY350ARA471MKE0S
	470	LH0	0.054	1260	16.0	16.5	565-2482-1-ND	14.84	24.62	58.83	565-2482-2-ND	125	190.05	EMVY350GDA471MLH0S
	1000	LH0	0.054	1260	16.0	16.5	565-2483-1-ND	15.19	25.19	60.21	565-2483-2-ND	125	194.51	EMVY350GDA102MMH0S
	1000	MH0	0.054	1350	18.0	16.5	565-2484-1-ND	15.91	26.38	63.05	565-2484-2-ND	125	203.70	EMVY350GDA102MMH0S
	2200	MN0	0.038	1750	18.0	21.5	565-2485-1-ND	18.68	30.97	74.02	565-2485-2-ND	75	163.98	EMVY350GDA222MMN0S
50	22	F55	2.0	70	6.3	5.2	565-2491-1-ND	2.78	4.24	9.28	565-2491-2-ND	1,000	100.70	EMVY500ADA220MF55G
	33	F80	0.60	170	6.3	7.7	565-2492-1-ND	3.47	5.28	11.55	565-2492-2-ND	900	118.80	EMVY500ADA330MF80G
	47	F80	0.60	170	6.3	7.7	565-2493-1-ND	3.52	5.36	11.73	565-2493-2-ND	900	120.60	EMVY500ADA470MF80G
	68	HA0	0.60	300	8.0	10.0	565-2494-1-ND	3.72	6.23	12.79	565-2494-2-ND	500	93.00	EMVY500ADA680MHA0G
	100	HA0	0.60	300	8.0	10.0	565-2495-1-ND	4.08	6.83	14.03	565-2495-2-ND	500	102.00	EMVY500ADA101MHA0G
	220	JA0	0.30	500	10.0	10.0	565-2496-1-ND	4.84	8.11	16.64	565-2496-2-ND	500	121.00	EMVY500ADA221MJA0G
	330	KE0	0.11	650	12.5	13.5	565-2497-1-ND	7.23	11.85	26.73	565-2497-2-ND	200	130.05	EMVY500ARA331MKE0S
	470	LH0	0.087	900	16.0	16.5	565-2499-1-ND	14.92	24.75	59.15	565-2499-2-ND	125	191.10	EMVY500GDA471MLH0S
	1000	MN0	0.050	1520	18.0	21.5	565-2501-1-ND	18.22	30.23	72.23	565-2501-2-ND	75	160.02	EMVY500GDA102MMN0S
63	68	KE0	0.19	500	12.5	13.5	565-2502-1-ND	6.58	10.78	24.33	565-2502-2-ND	200	118.35	EMVY630ARA680MKE0S
	100	KE0	0.19	500	12.5	13.5	565-2503-1-ND	6.58	10.78	24.33	565-2503-2-ND	200	118.35	EMVY630ARA101MKE0S
	220	KE0	0.19	500	12.5	13.5	565-2504-1-ND	6.85	11.23	25.35	565-2504-2-ND	200	123.30	EMVY630ARA221MKE0S
	220	LH0	0.12	845	16.0	16.5	565-2505-1-ND	14.10	23.39	55.90	565-2505-2-ND	125	180.60	EMVY630GDA221MLH0S
	330	LH0	0.12	845	16.0	16.5	565-2506-1-ND	14.33	23.77	56.79	565-2506-2-ND	125	183.49	EMVY630GDA331MLH0S
	470	LN0	0.085	1100	16.0	21.5	565-2507-1-ND	16.09	26.69	63.78	565-2507-2-ND	75	141.30	EMVY630GDA471MLN0S
	470	MH0	0.12	905	18.0	16.5	565-2508-1-ND	15.38	25.50	60.94	565-2508-2-ND	125	196.88	EMVY630GDA471MMH0S
100	47	KE0	0.33	450	12.5	13.5	565-2509-1-ND	6.50	10.66	24.05	565-2509-2-ND	200	117.00	EMVY101ARA470MKE0S
	68	KE0	0.33	450	12.5	13.5	565-2510-1-ND	6.63	10.87	24.51	565-2510-2-ND	200	119.25	EMVY101ARA680MKE0S
	100	KE0	0.33	450	12.5	13.5	565-2511-1-ND	6.78	11.11	25.07	565-2511-2-ND	200	121.95	EMVY101ARA101MKE0S
	100	LH0	0.24	650	16.0	16.5	565-2512-1-ND	14.10	23.39	55.90	565-2512-2-ND	125	180.60	EMVY101GDA101MLH0S
	220	LN0	0.16	900	16.0	21.5	565-2513-1-ND	16.05	26.62	63.62	565-2513-2-ND	75	140.94	EMVY101GDA221MLN0S
	220	MH0	0.24	700	18.0	16.5	565-2514-1-ND	15.38	25.50	60.94	565-2514-2-ND	125	196.88	EMVY101GDA221MMH0S
	330	MN0	0.16	950	18.0	21.5	565-2515-1-ND	17.28	28.66	68.49	565-2515-2-ND	75	151.74	EMVY101GDA331MMN0S

Alchip™ MZA Series Aluminum Electrolytic Capacitors (SMT)

Very Low Impedance 105°C

Features: • Very Low Impedance • Solvent Proof • 105°C Maximum Temperature (2000 Hour Life)

Specifications: • **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D61	4	5.8	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E61	5	5.8	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

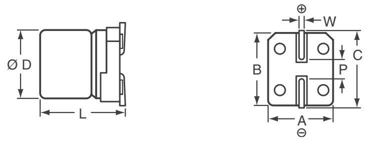

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
						D	L		5	10	25		Qty.	Pricing	
6.3	47	D61	0.26	1.35	90	4.0	5.8	565-2517-1-ND	2.80	4.69	9.63	565-2517-2-ND	2,000	112.00/M	EMZA6R3ADA470MD61G
	47	E61	0.26	0.70	160	5.0	5.8	565-2518-1-ND	3.32	5.56	11.41	565-2518-2-ND	1,000	141.10	EMZA6R3ADA470ME61G
	100	E61	0.26	0.70	160	5.0	5.8	565-2519-1-ND	3.32	5.56	11.41	565-2519-2-ND	1,000	141.10	EMZA6R3ADA101ME61G
	100	F61	0.26	0.36	240	6.3	5.8	565-2520-1-ND	3.76	6.30	12.93	565-2520-2-ND	1,000	159.80	EMZA6R3ADA101MF61G
	220	F61	0.26	0.36	240	6.3	5.8	565-2521-1-ND	3.80	6.37	13.06	565-2521-2-ND	1,000	161.50	EMZA6R3ADA221MF61G
	330	F80	0.26	0.34	280	6.3	7.7	565-2522-1-ND	3.88	6.50	13.34	565-2522-2-ND	900	157.14	EMZA6R3ADA331MF80G

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Alchip™ MZA Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions – mm D	Dimensions – mm L	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	United Chemi-Con Part No.
6.3	470	HA0	0.26	0.16	600	8.0	10.0	565-2523-1-ND	4.53	7.69	15.95	565-2523-2-ND	500	137.75	EMZA6R3ADA471MHA0G
	1000	HA0	0.26	0.16	600	8.0	10.0	565-2524-1-ND	4.28	7.26	15.07	565-2524-2-ND	500	130.15	EMZA6R3ADA102MHA0G
	1500	JA0	0.26	0.08	850	10.0	10.0	565-2525-1-ND	6.16	10.44	21.67	565-2525-2-ND	500	187.15	EMZA6R3ADA152MJA0G
10	22	D61	0.19	1.35	90	4.0	5.8	565-2526-1-ND	2.80	4.69	9.63	565-2526-2-ND	2,000	112.00/M	EMZA100ADA220MD61G
	33	D61	0.19	1.35	90	4.0	5.8	565-2527-1-ND	2.80	4.69	9.63	565-2527-2-ND	2,000	112.00/M	EMZA100ADA330MD61G
	33	E61	0.19	0.70	160	5.0	5.8	565-2528-1-ND	3.32	5.56	11.41	565-2528-2-ND	1,000	141.10	EMZA100ADA330ME61G
	220	F80	0.19	0.34	280	6.3	7.7	565-2529-1-ND	3.68	6.16	12.65	565-2529-2-ND	900	149.04	EMZA100ADA221MF80G
	330	HA0	0.19	0.16	600	8.0	10.0	565-2530-1-ND	4.50	7.63	15.84	565-2530-2-ND	500	136.80	EMZA100ADA331MHA0G
	470	HA0	0.19	0.16	600	8.0	10.0	565-2531-1-ND	4.53	7.69	15.95	565-2531-2-ND	500	137.75	EMZA100ADA471MHA0G
	680	HA0	0.19	0.16	600	8.0	10.0	565-2532-1-ND	4.63	7.84	16.28	565-2532-2-ND	500	140.60	EMZA100ADA681MHA0G
	1000	JA0	0.19	0.08	850	10.0	10.0	565-2533-1-ND	5.47	9.28	19.25	565-2533-2-ND	500	166.25	EMZA100ADA102MJA0G
16	10	D61	0.16	1.35	90	4.0	5.8	565-2534-1-ND	2.80	4.69	9.63	565-2534-2-ND	2,000	112.00/M	EMZA160ADA100MD61G
	22	D61	0.16	1.35	90	4.0	5.8	565-2535-1-ND	2.80	4.69	9.63	565-2535-2-ND	2,000	112.00/M	EMZA160ADA220MD61G
	22	E61	0.16	0.70	160	5.0	5.8	565-2536-1-ND	3.32	5.56	11.41	565-2536-2-ND	1,000	141.10	EMZA160ADA220ME61G
	47	E61	0.16	0.70	160	5.0	5.8	565-2537-1-ND	3.32	5.56	11.41	565-2537-2-ND	1,000	141.10	EMZA160ADA470ME61G
	47	F61	0.16	0.36	240	6.3	5.8	565-2538-1-ND	3.76	6.30	12.93	565-2538-2-ND	1,000	159.80	EMZA160ADA470MF61G
	100	F61	0.16	0.36	240	6.3	5.8	565-2539-1-ND	3.80	6.37	13.06	565-2539-2-ND	1,000	161.50	EMZA160ADA101MF61G
	220	F80	0.16	0.34	280	6.3	7.7	565-2540-1-ND	3.72	6.23	12.79	565-2540-2-ND	900	150.66	EMZA160ADA221MF80G
	330	HA0	0.16	0.16	600	8.0	10.0	565-2541-1-ND	4.50	7.63	15.84	565-2541-2-ND	500	136.80	EMZA160ADA331MHA0G
	470	HA0	0.16	0.16	600	8.0	10.0	565-2542-1-ND	4.25	7.21	14.96	565-2542-2-ND	500	129.20	EMZA160ADA471MHA0G
	680	JA0	0.16	0.08	850	10.0	10.0	565-2543-1-ND	6.03	10.23	21.23	565-2543-2-ND	500	183.35	EMZA160ADA681MJA0G
25	10	D61	0.14	1.35	90	4.0	5.8	565-2544-1-ND	2.80	4.69	9.63	565-2544-2-ND	2,000	112.00/M	EMZA250ADA100MD61G
	22	E61	0.14	0.70	160	5.0	5.8	565-2545-1-ND	3.32	5.56	11.41	565-2545-2-ND	1,000	141.10	EMZA250ADA220ME61G
	33	E61	0.14	0.70	160	5.0	5.8	565-2546-1-ND	3.32	5.56	11.41	565-2546-2-ND	1,000	141.10	EMZA250ADA330ME61G
	33	F61	0.14	0.36	240	6.3	5.8	565-2547-1-ND	3.76	6.30	12.93	565-2547-2-ND	1,000	159.80	EMZA250ADA330MF61G
	47	F61	0.14	0.36	240	6.3	5.8	565-2548-1-ND	3.76	6.30	12.93	565-2548-2-ND	1,000	159.80	EMZA250ADA470MF61G
	100	F80	0.14	0.34	280	6.3	7.7	565-2549-1-ND	3.68	6.16	12.65	565-2549-2-ND	900	149.04	EMZA250ADA101MF80G
	220	HA0	0.14	0.16	600	8.0	10.0	565-2550-1-ND	4.53	7.69	15.95	565-2550-2-ND	500	137.75	EMZA250ADA221MHA0G
	330	HA0	0.14	0.16	600	8.0	10.0	565-2551-1-ND	4.66	7.90	16.39	565-2551-2-ND	500	141.55	EMZA250ADA331MHA0G
	470	JA0	0.14	0.08	850	10.0	10.0	565-2552-1-ND	5.53	9.38	19.47	565-2552-2-ND	500	168.15	EMZA250ADA471MJA0G
35	4.7	D61	0.12	1.35	90	4.0	5.8	565-2553-1-ND	3.62	5.52	12.08	565-2553-2-ND	2,000	124.20/M	EMZA350ADA4R7MD61G
	10	D61	0.12	1.35	90	4.0	5.8	565-2554-1-ND	2.80	4.69	9.63	565-2554-2-ND	2,000	112.00/M	EMZA350ADA100MD61G
	10	E61	0.12	0.70	160	5.0	5.8	565-2555-1-ND	3.28	5.49	11.28	565-2555-2-ND	1,000	139.40	EMZA350ADA100ME61G
	22	E61	0.12	0.70	160	5.0	5.8	565-2556-1-ND	3.52	5.90	12.10	565-2556-2-ND	1,000	149.60	EMZA350ADA220ME61G
	33	F61	0.12	0.36	240	6.3	5.8	565-2557-1-ND	3.76	6.30	12.93	565-2557-2-ND	1,000	159.80	EMZA350ADA330MF61G
	47	F61	0.12	0.36	240	6.3	5.8	565-2558-1-ND	3.76	6.30	12.93	565-2558-2-ND	1,000	159.80	EMZA350ADA470MF61G
	100	F80	0.12	0.34	280	6.3	7.7	565-2559-1-ND	3.60	6.03	12.38	565-2559-2-ND	900	145.80	EMZA350ADA101MF80G
	100	HA0	0.12	0.16	600	8.0	10.0	565-2560-1-ND	7.22	12.24	25.41	565-2560-2-ND	500	219.45	EMZA350ADA101MHA0G
	220	HA0	0.12	0.16	600	8.0	10.0	565-2561-1-ND	4.28	7.26	15.07	565-2561-2-ND	500	130.15	EMZA350ADA221MHA0G
	330	JA0	0.12	0.08	850	10.0	10.0	565-2562-1-ND	5.63	9.54	19.80	565-2562-2-ND	500	171.00	EMZA350ADA331MJA0G
50	4.7	D61	0.10	2.90	60	4.0	5.8	565-2563-1-ND	3.57	5.44	11.90	565-2563-2-ND	2,000	122.40/M	EMZA500ADA4R7MD61G
	10	E61	0.10	1.52	85	5.0	5.8	565-2564-1-ND	3.24	5.43	11.14	565-2564-2-ND	1,000	137.70	EMZA500ADA100ME61G
	10	F61	0.10	0.88	165	6.3	5.8	565-2565-1-ND	3.60	6.03	12.38	565-2565-2-ND	1,000	153.00	EMZA500ADA100MF61G
	22	F61	0.10	0.88	165	6.3	5.8	565-2566-1-ND	3.64	6.10	12.51	565-2566-2-ND	1,000	154.70	EMZA500ADA220MF61G
	33	F80	0.10	0.68	195	6.3	7.7	565-2567-1-ND	3.68	6.16	12.65	565-2567-2-ND	900	149.04	EMZA500ADA330MF61G
	47	F80	0.10	0.68	195	6.3	7.7	565-2568-1-ND	3.52	5.90	12.10	565-2568-2-ND	900	142.56	EMZA500ADA470MF80G
	100	HA0	0.10	0.34	350	8.0	10.0	565-2569-1-ND	4.25	7.21	14.96	565-2569-2-ND	500	129.20	EMZA500ADA101MHA0G
	220	JA0	0.10	0.18	670	10.0	10.0	565-2570-1-ND	5.09	8.64	17.93	565-2570-2-ND	500	154.85	EMZA500ADA221MJA0G

F

NPCAP™ PS/PSA Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

PS: Ultra - Low ESR; PSA: Super - Low ESR

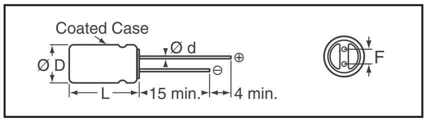

Features:

- Solid functional polymer aluminum • High temperature resistance • 105°C maximum temperature

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @ 105°C 100kHz	Maximum ESR mΩ @ 100 to 300kHz 20°C	Dimensions – mm ØD	Dimensions – mm L	Dimensions – mm F	Dimensions – mm Ød	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	United Chemi-Con Part No.
PS Series — Ultra - Low ESR												
4	560	5230	10	8.0	11.5	3.5	0.6	565-3035-ND	1.06	.79	.54	APS-4R0ELL561MHB5S
6.3	390	4770	12	8.0	11.5	3.5	0.6	565-3037-ND	1.12	.83	.57	APS-6R3ELL391MHB5S
	680	5500	10	10.0	12.5	5.0	0.6	565-3038-ND	1.46	1.11	.80	APS-6R3ELL681MJC5S
10	270	4420	14	8.0	11.5	3.5	0.6	565-3039-ND	1.14	.84	.58	APS-100ELL271MHB5S
	470	5300	12	10.0	12.5	5.0	0.6	565-3040-ND	1.47	1.11	.81	APS-100ELL471MJC5S
16	180	4360	16	8.0	11.5	3.5	0.6	565-3041-ND	1.06	.81	.59	APS-160ELL181MHB5S
	330	5050	14	10.0	12.5	5.0	0.6	565-3042-ND	1.68	1.28	.93	APS-160ELL331MJC5S
PSA Series — Super - Low ESR												
2.5	820	5580	7	8.0	11.5	3.5	0.8	565-3057-ND	1.05	.78	.54	APSA2R5ELL821MHB5S
4	390	3300	24	6.3	10.5	2.5	0.5	565-3059-ND	.98	.73	.50	APSA4R0ELL391MFA5G
	560	5580	7	8.0	11.5	3.5	0.8	565-3060-ND	1.05	.78	.54	APSA4R0ELL561MHB5S
	820	5860	6	10.0	11.5	5.0	0.8	565-3061-ND	1.39	1.05	.77	APSA4R0ELL821MJB5S
6.3	220	3160	20	6.3	10.5	2.5	0.5	565-3062-ND	.98	.73	.50	APSA6R3ELL221MFA5G
	330	3190	28	6.3	10.5	2.5	0.5	565-3063-ND	.98	.73	.50	APSA6R3ELL331MFA5G
	390	5080	8	8.0	11.5	3.5	0.8	565-3064-ND	1.08	.80	.55	APSA6R3ELL391MHB5S
	680	5860	7	10.0	11.5	5.0	0.8	565-3065-ND	1.42	1.08	.78	APSA6R3ELL681MJB5S
10	47	2820	25	6.3	10.5	2.5	0.5	565-3051-ND	.93	.69	.48	APSA100ELL470MFA5G
	68	2820	25	6.3	10.5	2.5	0.5	565-3052-ND	.93	.69	.48	APSA100ELL680MFA5G
	100	2820	25	6.3	10.5	2.5	0.5	565-3047-ND	.98	.73	.50	APSA100ELL101MFA5G
	150	2820	25	6.3	10.5	2.5	0.5	565-3048-ND	1.15	.86	.59	APSA100ELL151MFA5G
	270	4710	9	8.0	11.5	3.5	0.8	565-3049-ND	1.10	.82	.56	APSA100ELL271MHB5S
	470	5650	8	10.0	11.5	5.0	0.8	565-3050-ND	1.43	1.09	.79	APSA100ELL471MJB5S
16	100	2820	25	6.3	10.5	2.5	0.5	565-3053-ND	.98	.73	.50	APSA160ELL101MFA5G

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

UNITED CHEMI-CON

NPCAP™ PSC / PSE Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

Ultra - Low ESR 105°C

RoHS COMPLIANT

Features:

• Solid functional polymer aluminum • Super - Low ESR • High ripple current capability • High temperature resistance • 105°C Maximum Temperature

Specifications:

• **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.1 maximum @ 20°C, 120Hz

Size Code	ØD	Ød	F	L
F08	6.3	0.6	2.5	8.0
H08	8.0	0.6	3.5	8.0
HB5	8.0	0.8†	3.5	11.5
JB5	10.0	0.8†	5.0	11.5
JC5	10.0	0.6	5.0	12.5

† 0.6 for rated volt 16V

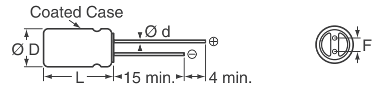

Rated W.V. (VDC)	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100kHz	Maximum ESR (mΩ) at 20°C 100 ~ 300kHz	Leakage Current (µA) at 20°C after 2 Min.	Dimensions — mm ØD	L	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
2.5	560	H08	6100	7	500	8.0	8.0	565-3217-ND	1.22	.93	.67	APSC2R5ELL561MH08S
	820	F08	5000	7	500	6.3	8.0	565-3252-ND	1.14	.84	.58	APSE2R5ELL821MF08S
	820	H08	6100	7	500	8.0	8.0	565-3219-ND	1.30	.98	.72	APSC2R5ELL821MH08S
	1000	H08	6100	7	500	8.0	8.0	565-3218-ND	1.34	1.02	.74	APSC2R5ELL102MH08S
	1500	HB5	6100	7	750	8.0	11.5	565-3221-ND	1.46	1.11	.81	APSC2R5ELL152MHB5S
4.0	560	F08	5000	7	500	6.3	8.0	565-3253-ND	1.14	.84	.58	APSE4R0ELL561MF08S
	560	H08	6100	7	500	8.0	8.0	565-3223-ND	1.05	.77	.53	APSC4R0ELL561MH08S
	680	HB5	6100	7	544	8.0	11.5	565-3224-ND	1.21	.92	.67	APSC4R0ELL681MHB5S
	1000	JB5	6640	6	800	10.0	11.5	565-3225-ND	2.01	1.53	1.11	APSC4R0ELL102MJB5S
6.3	470	F08	4700	8	592	6.3	8.0	565-3254-ND	1.09	.81	.56	APSE6R3ELL471MF08S
	470	H08	5700	8	592	8.0	8.0	565-3226-ND	1.29	.98	.71	APSC6R3ELL471MH08S
	560	F08	4700	8	706	6.3	8.0	565-3255-ND	1.09	.81	.56	APSE6R3ELL561MF08S
	560	H08	5700	8	706	8.0	8.0	565-3227-ND	1.30	.98	.72	APSC6R3ELL561MH08S
	820	JB5	6640	7	1033	10.0	11.5	565-3228-ND	2.00	1.52	1.11	APSC6R3ELL821MJB5S
	1500	JB5	5560	10	1890	10.0	11.5	565-3229-ND	2.06	1.61	1.28	APSC6R3ELL152MJB5S
10	390	HB5	5650	9	780	8.0	11.5	565-3230-ND	1.44	1.10	.80	APSC100ELL391MHB5S
	680	JB5	6100	7	1360	10.0	11.5	565-3231-ND	1.81	1.41	1.12	APSC100ELL681MJB5S
16	270	HB5	5080	11	864	8.0	11.5	565-3232-ND	1.66	1.26	.92	APSC160ELL271MHB5S
	330	JC5	6100	10	1056	10.0	12.5	565-3233-ND	1.96	1.53	1.21	APSC160ELL331MJC5S
	470	JB5	6100	10	1504	10.0	11.5	565-3234-ND	2.15	1.68	1.33	APSC160ELL471MJB5S

NPCAP™ PXA Series Polymer Aluminum Electrolytic Capacitors (SMT)

Digi-Reel® RoHS COMPLIANT

Ultra - Low ESR 105°C

Features:

• Solid functional polymer aluminum • Ultra-low ESR • High temperature resistance • For Lead Free Soldering • 105°C Maximum temperature

Specifications:

• **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C, 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Size Code	ØD	L	A	B	C	W	P
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5
HC0	8.0	12.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JC0	10.0	12.2	10.3	10.3	11.0	0.7 ~ 1.1	4.5

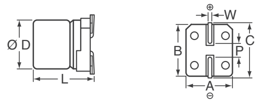

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @ -55 ~ 105°C 100 ~ 300KHz	Maximum ESR mΩ @ 100kHz to 20°C	Dimensions mm ØD	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
2.5	220	F55	2500	25	6.3	5.2	565-3087-1-ND	7.34	12.46	25.85	—	—	—	APXA2R5ARA221MF55G
	220	F60	2500	25	6.3	5.7	565-3088-1-ND	7.00	11.48	25.90	—	—	—	APXA2R5ARA221MF60G
	560	H70	3100	23	8.0	6.7	565-3089-1-ND	7.34	12.46	25.85	565-3089-2-ND	1,000	376.00	APXA2R5ARA561MH70G
4	150	F60	2450	26	6.3	5.7	565-3099-1-ND	7.34	12.46	25.85	565-3099-2-ND	1,000	376.00	APXA4R0ARA151MF60G
	330	H70	3020	25	8.0	6.7	565-3105-1-ND	7.34	12.46	25.85	565-3105-2-ND	1,000	376.00	APXA4R0ARA331MH70G
	560	HC0	4770	12	8.0	12.0	565-3107-1-ND	8.88	14.56	32.84	565-3107-2-ND	400	284.00	APXA4R0ARA561MHC0G
	680	J80	4130	20	10.0	7.7	565-3108-1-ND	8.90	14.60	32.93	565-3108-2-ND	500	302.60	APXA4R0ARA681MJ80G
	1200	JC0	5500	10	10.0	12.2	565-3102-1-ND	10.33	17.14	40.95	565-3102-2-ND	400	362.88	APXA4R0ARA122MJC2G
6.3	68	F60	2400	27	6.3	5.7	565-3120-1-ND	11.55	18.94	42.74	565-3120-2-ND	1,000	693.00	APXA6R3ARA680MF60G
	82	F55	2400	27	6.3	5.2	565-3122-1-ND	12.89	21.39	51.11	565-3122-2-ND	1,000	880.60	APXA6R3ARA820MF55G
	82	F60	2400	27	6.3	5.7	565-3123-1-ND	10.37	17.20	41.11	—	—	—	APXA6R3ARA820MF60G
	100	F55	2400	27	6.3	5.2	565-3110-1-ND	7.34	12.46	25.85	565-3110-2-ND	1,000	376.00	APXA6R3ARA101MF55G
	100	F60	2400	27	6.3	5.7	565-3111-1-ND	13.96	23.15	55.33	565-3111-2-ND	1,000	953.40	APXA6R3ARA101MF60G
	120	F60	2400	27	6.3	5.7	565-3112-1-ND	7.34	12.46	25.85	565-3112-2-ND	1,000	376.00	APXA6R3ARA121MF60G
	150	H70	3020	25	8.0	6.7	565-3113-1-ND	6.28	10.29	23.22	565-3113-2-ND	1,000	376.50	APXA6R3ARA151MH70G
	220	H70	3020	25	8.0	6.7	565-3114-1-ND	9.20	15.09	34.04	565-3114-2-ND	1,000	552.00	APXA6R3ARA221MH70G
	330	J80	4130	20	10.0	7.7	565-3115-1-ND	9.20	15.09	34.04	565-3115-2-ND	500	312.80	APXA6R3ARA331MJ80G
	390	HC0	4770	12	8.0	12.0	565-3116-1-ND	11.63	19.07	43.01	—	—	—	APXA6R3ARA391MHC0G
	470	HC0	4770	12	8.0	12.0	565-3117-1-ND	10.41	17.27	41.28	565-3117-2-ND	400	365.76	APXA6R3ARA471MHC0G
	470	J80	4130	20	10.0	7.7	565-3118-1-ND	11.55	18.94	42.74	565-3118-2-ND	500	392.70	APXA6R3ARA471MJ80G
	680	JC0	5500	10	10.0	12.2	565-3119-1-ND	10.43	17.31	41.36	565-3119-2-ND	400	366.48	APXA6R3ARA681MJC0G
	820	JC0	5500	10	10.0	12.2	565-3121-1-ND	12.07	20.03	47.86	565-3121-2-ND	400	424.08	APXA6R3ARA821MJC0G
10	47	F60	2250	31	6.3	5.7	565-3073-1-ND	13.28	22.03	52.65	565-3073-2-ND	1,000	907.20	APXA100ARA470MF60G
	56	F60	2250	31	6.3	5.7	565-3076-1-ND	13.74	22.78	54.44	565-3076-2-ND	1,000	938.00	APXA100ARA560MF60G
	120	H70	2800	27	8.0	6.7	565-3066-1-ND	9.28	15.21	34.32	565-3066-2-ND	1,000	556.50	APXA100ARA121MH70G
	150	H70	2800	27	8.0	6.7	565-3067-1-ND	10.64	17.65	42.17	565-3067-2-ND	1,000	726.60	APXA100ARA151MH70G
	270	HC0	4420	14	8.0	12.0	565-3068-1-ND	11.36	18.84	45.01	565-3068-2-ND	400	398.88	APXA100ARA271MHC0G
	270	J80	3770	24	10.0	7.7	565-3069-1-ND	10.62	17.61	42.09	565-3069-2-ND	500	414.40	APXA100ARA271MJ80G
	330	HC0	4420	14	8.0	12.0	565-3070-1-ND	13.82	22.92	54.76	565-3070-2-ND	400	485.28	APXA100ARA331MHC0G
	330	J80	3770	24	10.0	7.7	565-3071-1-ND	14.35	23.80	56.88	565-3071-2-ND	500	560.00	APXA100ARA331MJ80G
	470	JC0	5300	12	10.0	12.2	565-3072-1-ND	19.87	33.21	71.53	565-3072-2-ND	400	593.46	APXA100ARA471MJC0G
	560	JC0	5300	12	10.0	12.2	565-3074-1-ND	18.45	30.26	68.27	565-3074-2-ND	400	590.40	APXA100ARA561MJC0G
16	33	F60	2050	37	6.3	5.7	565-3082-1-ND	8.85	14.51	32.75	565-3082-2-ND	1,000	531.00	APXA160ARA330MF60G
	39	F55	2050	37	6.3	5.2	565-3083-1-ND	8.85	14.51	32.75	565-3083-2-ND	1,000	531.00	APXA160ARA390MF55G
	39	F60	2050	37	6.3	5.7	565-3084-1-ND	6.32	10.72	22.25	565-3084-2-ND	1,000	323.70	APXA160ARA390MF60G
	82	H70	2700	30	8.0	6.7	565-3085-1-ND	11.01	18.26	43.63	565-3085-2-ND	1,000	751.80	APXA160ARA820MH70G
	150	J80	3430	26	10.0	7.7	565-3077-1-ND	7.69	13.04	27.06	565-3077-2-ND	500	233.70	APXA160ARA151MJ80G
	180	HC0	4360	16	8.0	12.0	565-3078-1-ND	8.93	14.64	33.02	565-3078-2-ND	400	285.60	APXA160ARA181MHC0G
	180	J80	3430	26	10.0	7.7	565-3079-1-ND	10.82	17.95	42.90	565-3079-2-ND	500	422.40	APXA160ARA181MJ80G
	220	JC0	5050	14	10.0	12.2	565-3080-1-ND	13.82	22.92	54.76	565-3080-2-ND	400	485.28	APXA160ARA221MJC0G
	330	JC0	5050	14	10.0	12.2	565-3081-1-ND	14.35	23.80	56.88	565-3081-2-ND	400	504.00	APXA160ARA331MJC0G
	330	JC0	5050	14	10.0	12.2	565-3251-1-ND†	14.21	23.56	56.31	565-3251-2-ND†	400	498.96	APXA160ARA331MJC0S
20	82	J80	2500	40	10.0	7.7	565-3245-1-ND	11.01	18.26	43.63	565-3245-2-ND	500	429.60	APXA200ARA820MJ80G
25	22	H70	1800	50	8.0	6.7	565-3250-1-ND	8.93	14.64	33.02	565-3250-2-ND	1,000	535.50	APXA250ARA220MH70G

† 100% tin plated

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

UNITED CHEMI-CON

NPCAP™ PXC Series Polymer Aluminum Electrolytic Capacitors (SMT) - Super - Low ESR 105°C

Features:
- Solid functional polymer aluminum • Super-low ESR (20 ~ 30% Lower than PXA Series) • High temperature resistance • 105°C maximum temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Size Code	ØD	L	A	B	C	W	P
E60	5.0	5.7	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1

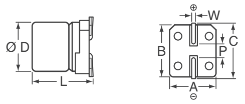

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C	Maximum ESR mΩ @20°C		Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
				100kHz	300kHz	ØD	L		5	10	25		Qty.	Pricing	
2.5	180	E60	2000	30	22	5.0	5.7	565-3130-1-ND	7.06	11.98	24.86	—	—	—	APXC2R5ARA181ME60G
	470	H70	3420	17	16	8.0	6.7	565-3132-1-ND	9.93	16.28	36.72	565-3132-2-ND	1,000	595.50	APXC2R5ARA471MH70G
4	150	E60	2000	30	22	5.0	5.7	565-3133-1-ND	7.06	11.98	24.86	565-3133-2-ND	1,000	361.60	APXC4R0ARA151ME60G
	220	F60	2640	21	19	6.3	5.7	565-3134-1-ND	7.23	11.85	26.73	565-3134-2-ND	1,000	433.50	APXC4R0ARA221MF60G
	330	H70	3300	18	17	8.0	6.7	565-3135-1-ND	9.93	16.28	36.72	565-3135-2-ND	1,000	595.50	APXC4R0ARA331MH70G
6.3	100	E60	1780	35	26	5.0	5.7	565-3136-1-ND	7.09	12.03	24.97	565-3136-2-ND	1,000	363.20	APXC6R3ARA101ME60G
	180	F60	2580	22	19	6.3	5.7	565-3137-1-ND	7.23	11.85	26.73	565-3137-2-ND	1,000	433.50	APXC6R3ARA181MF60G
	220	H70	3300	18	17	8.0	6.7	565-3138-1-ND	9.90	16.24	36.63	565-3138-2-ND	1,000	594.00	APXC6R3ARA221MH70G
10	56	E60	1660	40	31	5.0	5.7	565-3125-1-ND	7.09	12.03	24.97	565-3125-2-ND	1,000	363.20	APXC100ARA560ME60G
	82	F60	2440	23	21	6.3	5.7	565-3126-1-ND	7.23	11.85	26.73	565-3126-2-ND	1,000	433.50	APXC100ARA820MF60G
	150	H70	3160	20	19	8.0	6.7	565-3124-1-ND	10.20	16.73	37.74	565-3124-2-ND	1,000	612.00	APXC100ARA151MH70G
16	27	E60	1570	45	35	5.0	5.7	565-3127-1-ND	7.09	12.03	24.97	565-3127-2-ND	1,000	363.20	APXC160ARA270ME60G
	39	F60	2300	25	23	6.3	5.7	565-3128-1-ND	7.40	12.14	27.38	—	—	—	APXC160ARA390MF60G
	82	H70	2830	25	23	8.0	6.7	565-3129-1-ND	10.53	17.26	38.94	565-3129-2-ND	1,000	631.50	APXC160ARA820MH70G

NPCAP™ PXH Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 125°C

Features:
- Solid functional polymer aluminum • Super-low ESR • High temperature resistance • 125°C maximum temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz

Size Code	ØD	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5

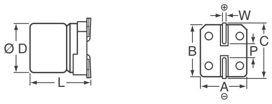

Rated W. V. (VDC)	Cap. (µF)	Size Code	Leakage Current µA Max. after 2 Minutes	Rated Ripple Current (mA RMS) 100kHz ~ 300kHz		Maximum ESR mΩ @20°C 100kHz - 300kHz	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
				-55°C ~ 105°C	105°C ~ 125°C		ØD	L		5	10	25		Qty.	Pricing	
6.3	100	F60	126	2400	720	40	6.3	5.7	565-3155-1-ND	6.95	11.40	25.72	565-3155-2-ND	1,000	417.00	APXH6R3ARA101MF60G
	150	H70	189	3020	960	30	8.0	6.7	565-3156-1-ND	10.00	16.40	37.00	565-3156-2-ND	1,000	600.00	APXH6R3ARA151MH70G
	220	H70	277	3020	960	30	8.0	6.7	565-3157-1-ND	10.48	17.18	38.76	—	—	—	APXH6R3ARA221MH70G
	470	J80	592	3700	1100	25	10.0	7.7	565-3158-1-ND	12.79	21.22	50.70	565-3158-2-ND	500	499.20	APXH6R3ARA471MJ80G
10	56	F60	112	2250	680	45	6.3	5.7	565-3143-1-ND	7.00	11.48	25.90	565-3143-2-ND	1,000	420.00	APXH100ARA560MF60G
	120	H70	240	2800	880	35	8.0	6.7	565-3139-1-ND	10.45	17.14	38.67	565-3139-2-ND	1,000	627.00	APXH100ARA121MH70G
	150	H70	300	2800	880	35	8.0	6.7	565-3140-1-ND	10.45	17.14	38.67	565-3140-2-ND	1,000	627.00	APXH100ARA151MH70G
	330	J80	660	3700	1010	30	10.0	7.7	565-3141-1-ND	12.75	21.15	50.54	565-3141-2-ND	500	497.60	APXH100ARA331MJ80G
16	39	F60	125	2050	650	50	6.3	5.7	565-3142-1-ND	6.98	11.44	25.81	565-3142-2-ND	1,000	418.50	APXH160ARA390MF60G
	82	H70	262	2700	830	40	8.0	6.7	565-3146-1-ND	10.38	17.02	38.39	565-3146-2-ND	1,000	622.50	APXH160ARA820MH70G
	150	J80	480	3020	930	35	10.0	7.7	565-3144-1-ND	12.73	21.11	50.46	565-3144-2-ND	500	496.80	APXH160ARA151MJ80G
	180	J80	576	3020	930	35	10.0	7.7	565-3145-1-ND	12.73	21.11	50.46	565-3145-2-ND	500	496.80	APXH160ARA181MJ80G
20	22	F60	88	1650	590	60	6.3	5.7	565-3149-1-ND	7.20	11.81	26.64	565-3149-2-ND	1,000	432.00	APXH200ARA220MF60G
	47	H70	188	2000	780	45	8.0	6.7	565-3150-1-ND	9.83	16.11	36.35	565-3150-2-ND	1,000	589.50	APXH200ARA470MH70G
	82	J80	328	2400	820	45	10.0	7.7	565-3151-1-ND	13.02	21.59	51.59	565-3151-2-ND	500	508.00	APXH200ARA820MJ80G

NPCAP™ PXE Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:
- Solid Functional Polymer Aluminum • Super - Low ESR • High temperature resistance • 105°C Maximum Temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 maximum at 20°C, 120Hz
- **Leakage Current:** 0.2CV maximum at 20°C after 2 minutes

Size Code	ØD	L	A	B	C	W	P
E61	5	5.8	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
H80	8	7.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
HC0	8	12.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5
JC0	10	12.2	10.3	10.3	11.0	0.7 ~ 1.1	4.5

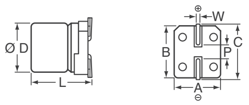

Rated W.V. VDC	Capacitance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Qty.	Pricing	
2.5	180	E61	2670	21	5	5.8	565-3166-1-ND	1.56	1.32	1.10	565-3166-2-ND	1,000	398.40	APXE2R5ARA181ME61G
	390	F61	3160	15	6.3	5.8	565-3167-1-ND	1.59	1.30	1.18	565-3167-2-ND	1,000	475.50	APXE2R5ARA391MF61G
	470	F80	3600	13	6.3	7.7	565-3168-1-ND	1.69	1.39	1.26	565-3168-2-ND	900	486.72	APXE2R5ARA471MF80G
	560	F80	3600	13	6.3	7.7	565-3169-1-ND	1.69	1.39	1.26	565-3169-2-ND	900	486.72	APXE2R5ARA561MF80G
	680	H70	4100	13	8	6.7	565-3170-1-ND	2.19	1.80	1.62	—	—	—	APXE2R5ARA681MH70G

(Continued)

NPCAP™ PXE Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C *(Cont.)*

Rated W.V. VDC	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Qty.	Pricing	
2.5	820	HC0	5400	9	8	12	565-3171-1-ND	2.66	2.21	2.11	565-3171-2-ND	400	467.28	APXE2R5ARA821MHC0G
	1000	H80	4260	12	8	7.7	565-3172-1-ND	2.17	1.80	1.72	565-3172-2-ND	900	712.80	APXE2R5ARA102MH80G
	1200	J80	4450	13	10	7.7	565-3173-1-ND	2.59	2.15	2.06	565-3173-2-ND	500	504.80	APXE2R5ARA122MJ80G
	1500	HC0	5400	9	8	12	565-3174-1-ND	2.88	2.39	2.29	565-3174-2-ND	400	505.44	APXE2R5ARA152MHC0G
	2700	JC0	5600	9	10	12.2	565-3175-1-ND	3.03	2.51	2.40	565-3175-2-ND	400	531.36	APXE2R5ARA272MJC0G
4.0	100	E61	2610	22	5	5.8	565-3176-1-ND	1.56	1.32	1.10	565-3176-2-ND	1,000	398.40	APXE4R0ARA101ME61G
	150	E61	2610	22	5	5.8	565-3177-1-ND	1.56	1.32	1.10	565-3177-2-ND	1,000	398.40	APXE4R0ARA151ME61G
	270	F61	3160	15	6.3	5.8	565-3178-1-ND	1.59	1.30	1.18	565-3178-2-ND	1,000	475.50	APXE4R0ARA271MF61G
	330	F61	3160	15	6.3	5.8	565-3179-1-ND	1.59	1.31	1.18	565-3179-2-ND	1,000	477.00	APXE4R0ARA331MF61G
	390	F80	3470	14	6.3	7.7	565-3180-1-ND	1.69	1.39	1.26	565-3180-2-ND	900	486.72	APXE4R0ARA391MF80G
	470	H70	3950	14	8	6.7	565-3181-1-ND	2.19	1.80	1.63	565-3181-2-ND	1,000	657.00	APXE4R0ARA471MH70G
	560	H70	3950	14	8	6.7	565-3182-1-ND	2.19	1.80	1.63	565-3182-2-ND	1,000	657.00	APXE4R0ARA561MH70G
	680	H80	3950	13	8	7.7	565-3183-1-ND	2.16	1.80	1.72	565-3183-2-ND	900	711.45	APXE4R0ARA681MH80G
	1000	J80	4300	14	10	7.7	565-3184-1-ND	2.59	2.15	2.06	565-3184-2-ND	500	504.80	APXE4R0ARA102MJ80G
	1200	HC0	5400	9	8	12	565-3185-1-ND	2.88	2.39	2.28	565-3185-2-ND	400	504.72	APXE4R0ARA122MHC0G
	1800	JC0	5600	9	10	12.2	565-3186-1-ND	3.50	2.90	2.77	565-3186-2-ND	400	613.44	APXE4R0ARA182MJC0G
6.3	100	E61	2500	24	5	5.8	565-3187-1-ND	1.56	1.32	1.10	565-3187-2-ND	1,000	398.40	APXE6R3ARA101ME61G
	120	E61	2500	24	5	5.8	565-3188-1-ND	1.56	1.32	1.10	565-3188-2-ND	1,000	398.40	APXE6R3ARA121ME61G
	220	F61	3160	15	6.3	5.8	565-3189-1-ND	1.58	1.30	1.17	565-3189-2-ND	1,000	474.00	APXE6R3ARA221MF61G
	330	F80	3470	14	6.3	7.7	565-3190-1-ND	1.68	1.38	1.25	565-3190-2-ND	900	483.84	APXE6R3ARA331MF80G
	330	H70	3950	14	8	6.7	565-3191-1-ND	2.19	1.80	1.62	565-3191-2-ND	1,000	655.50	APXE6R3ARA331MH70G
	390	H70	3950	14	8	6.7	565-3192-1-ND	2.19	1.80	1.63	565-3192-2-ND	1,000	657.00	APXE6R3ARA391MH70G
	470	H80	3950	13	8	7.7	565-3193-1-ND	2.16	1.80	1.72	565-3193-2-ND	900	711.45	APXE6R3ARA471MH80G
	820	HC0	5150	10	8	12	565-3194-1-ND	2.82	2.34	2.24	565-3194-2-ND	400	495.36	APXE6R3ARA821MHC0G
	820	J80	4300	14	10	7.7	565-3195-1-ND	2.58	2.14	2.05	565-3195-2-ND	500	502.40	APXE6R3ARA821MJ80G
	1500	JC0	5500	10	10	12.2	565-3196-1-ND	3.66	3.03	2.90	565-3196-2-ND	400	641.52	APXE6R3ARA152MJC0G
10	47	E61	2310	28	5	5.8	565-3197-1-ND	1.25	1.03	.93	565-3197-2-ND	1,000	375.00	APXE100ARA470ME61G
	56	E61	2310	28	5	5.8	565-3198-1-ND	1.25	1.03	.93	565-3198-2-ND	1,000	375.00	APXE100ARA560ME61G
	68	E61	2310	28	5	5.8	565-3199-1-ND	1.26	1.03	.93	565-3199-2-ND	1,000	376.50	APXE100ARA680ME61G
	120	F61	2530	25	6.3	5.8	565-3200-1-ND	1.60	1.32	1.19	565-3200-2-ND	1,000	480.00	APXE100ARA121MF61G
	150	F80	2880	21	6.3	7.7	565-3201-1-ND	1.70	1.40	1.26	565-3201-2-ND	900	489.60	APXE100ARA151MF80G
	220	H70	3220	21	8	6.7	565-3202-1-ND	2.26	1.86	1.68	565-3202-2-ND	1,000	678.00	APXE100ARA221MH70G
	270	H70	3220	21	8	6.7	565-3203-1-ND	2.27	1.86	1.68	565-3203-2-ND	1,000	679.50	APXE100ARA271MH70G
	330	H80	3390	19	8	7.7	565-3204-1-ND	2.18	1.81	1.73	565-3204-2-ND	900	715.50	APXE100ARA331MH80G
	470	J80	3800	19	10	7.7	565-3205-1-ND	2.62	2.17	2.08	565-3205-2-ND	500	510.40	APXE100ARA471MJ80G
16	33	E61	2070	35	5	5.8	565-3206-1-ND	1.26	1.03	.93	565-3206-2-ND	1,000	376.50	APXE160ARA330ME61G
	39	E61	2070	35	5	5.8	565-3207-1-ND	1.26	1.03	.93	565-3207-2-ND	1,000	376.50	APXE160ARA390ME61G
	68	F61	2390	28	6.3	5.8	565-3208-1-ND	1.60	1.32	1.19	565-3208-2-ND	1,000	480.00	APXE160ARA680MF61G
	82	F80	2700	24	6.3	7.7	565-3209-1-ND	1.69	1.39	1.26	565-3209-2-ND	900	486.72	APXE160ARA820MF80G
	100	F80	2700	24	6.3	7.7	565-3210-1-ND	1.70	1.39	1.26	565-3210-2-ND	900	488.16	APXE160ARA101MF80G
	100	H70	3010	24	8	6.7	565-3211-1-ND	2.27	1.87	1.68	565-3211-2-ND	1,000	681.00	APXE160ARA101MH70G
	120	H70	3010	24	8	6.7	565-3212-1-ND	2.28	1.87	1.69	565-3212-2-ND	1,000	684.00	APXE160ARA121MH70G
	150	H80	3150	22	8	7.7	565-3213-1-ND	2.11	1.75	1.67	565-3213-2-ND	900	692.55	APXE160ARA151MH80G
	180	HA0	3890	18	8	10	565-3214-1-ND	2.62	2.18	2.08	565-3214-2-ND	500	511.20	APXE160ARA181MHA0G
	220	HA0	3890	18	8	10	565-3215-1-ND	2.64	2.19	2.09	565-3215-2-ND	500	513.60	APXE160ARA221MHA0G
	220	J80	3450	22	10	7.7	565-3216-1-ND	2.66	2.21	2.11	565-3216-2-ND	500	518.40	APXE160ARA221MJ80G

NPCAP™ PXF Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:
- Solid Functional Polymer Aluminum
- Super - Low ESR
- High Temperature Resistance
- 105°C Maximum Temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 Maximum at 20°C, 120Hz
- **Leakage Current:** 0.3CV Maximum at 20°C after 2 minutes

Size Code	ØD	L	A	B	C	W	P
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H80	8.0	7.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1

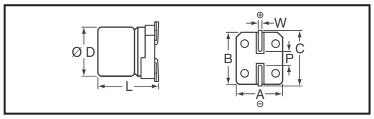

Rated W.V. VDC	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Qty.	Pricing	
2.5	390	F61	3900	10	6.3	5.8	565-3160-1-ND	1.81	1.49	1.34	565-3160-2-ND	1,000	543.00	APXF2R5ARA391MF61G
	1000	H80	4500	9	8.0	7.7	565-3161-1-ND	2.73	2.26	2.16	565-3161-2-ND	900	896.40	APXF2R5ARA102MH80G
4.0	330	F61	3900	10	6.3	5.8	565-3162-1-ND	1.81	1.48	1.34	565-3162-2-ND	1,000	541.50	APXF4R0ARA331MF61G
6.3	220	F61	3900	10	6.3	5.8	565-3163-1-ND	1.82	1.49	1.35	565-3163-2-ND	1,000	544.50	APXF6R3ARA221MF61G
	470	H80	4500	9	8.0	7.7	565-3164-1-ND	2.71	2.25	2.15	565-3164-2-ND	900	891.00	APXF6R3ARA471MH80G
	560	H80	4500	9	8.0	7.7	565-3165-1-ND	2.71	2.25	2.15	565-3165-2-ND	900	892.35	APXF6R3ARA561MH80G

Proadlizer® Conductive Polymer Decoupling Device

Features:
- Super - Low ESR and Impedance
- High Heat Resistance
- Excellent Noise Absorption Performance at GHz Frequencies

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Leakage Current:** 300µA
- **Dissipation Factor:** 0.1 max. at 20°C 120Hz

Dimensions in mm

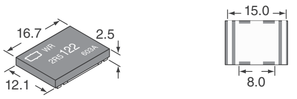

BOTTOM VIEW

W.V. DC	Capaci-tance 20°C 120Hz	ESR (mΩ) @ 20°C 100kHz	Rated Ripple Current @ -55 ~ 105°C 100 ~ 300kHz (mA RMS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	United Chemi-Con Part No.
					5	10	25			
2.5	1200	2	5000	565-3235-1-ND	10.82	10.13	9.95	565-3235-2-ND	4449.75	AWR-2R5SRB122MF25S

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 85°C

RoHS COMPLIANT

Features:
- General Purpose • High CV • High Ripple • 2,000 Hours @ 85°C

Specifications:
- Operating Temperature Range: -40°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

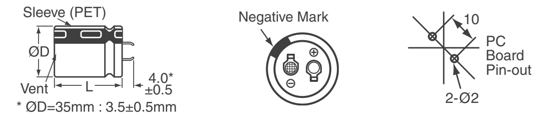

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (ARMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	United Chemi-Con Part No.
6.3	100000	35 x 45	0.60	8.31	565-2588-ND	4.80	43.20	326.40	ESMH6R3VSN104MA45T
10	12000	22 x 25	0.50	2.39	565-2589-ND	2.52	19.61	155.40	ESMH100VSN123MP25T
	27000	25.4 x 35	0.50	3.98	565-2596-ND	3.23	25.18	199.50	ESMH100VSN273MQ35T
	33000	22 x 50	0.50	4.58	565-2597-ND	3.10	25.00	195.00	ESMH100VSN333MP50T
	39000	30 x 35	0.50	5.05	565-2600-ND	3.97	32.00	249.60	ESMH100VSN393MR35T
	47000	25.4 x 50	0.50	5.73	565-2601-ND	3.75	30.25	235.95	ESMH100VSN473MQ50T
	47000	30 x 40	0.50	5.72	565-2602-ND	4.28	34.50	269.10	ESMH100VSN473MR40T
	56000	30 x 45	0.50	6.44	565-2603-ND	3.80	34.20	258.40	ESMH100VSN563MR45T
	68000	35 x 40	0.50	7.27	565-2604-ND	4.40	39.60	299.20	ESMH100VSN683MA40T
	82000	35 x 50	0.50	8.49	565-2605-ND	4.95	44.55	336.60	ESMH100VSN823MA50T
16	8200	22 x 25	0.40	2.51	565-2606-ND	2.49	19.42	153.93	ESMH160VSN822MP25T
	10000	22 x 25	0.40	2.77	565-2607-ND	2.88	22.45	177.87	ESMH160VSN103MP25T
	12000	22 x 30	0.40	2.86	565-2608-ND	2.62	20.46	162.12	ESMH160VSN123MP30T
	15000	22 x 35	0.40	3.29	565-2609-ND	2.82	21.94	173.88	ESMH160VSN153MP35T
	15000	24.5 x 30	0.40	3.46	565-2610-ND	3.26	26.25	204.75	ESMH160VSN153MQ30T
	18000	22 x 40	0.40	3.72	565-2611-ND	3.02	23.56	186.69	ESMH160VSN183MP40T
	22000	22 x 50	0.40	4.37	565-2613-ND	3.29	25.68	203.49	ESMH160VSN223MP50T
	22000	25.4 x 40	0.40	4.26	565-2614-ND	3.22	26.00	202.80	ESMH160VSN223MQ40T
	27000	25.4 x 45	0.40	4.72	565-2615-ND	3.50	28.25	220.35	ESMH160VSN273MQ45T
	27000	30 x 35	0.40	4.82	565-2616-ND	4.03	32.50	253.50	ESMH160VSN273MR35T
	33000	25.4 x 50	0.40	5.33	565-2617-ND	3.66	29.50	230.10	ESMH160VSN333MQ50T
	33000	30 x 40	0.40	5.36	565-2618-ND	4.34	35.00	273.00	ESMH160VSN333MR40T
	39000	30 x 45	0.40	6.01	565-2619-ND	3.78	33.98	256.70	ESMH160VSN393MR45T
	47000	30 x 50	0.40	6.79	565-2620-ND	4.00	36.00	272.00	ESMH160VSN473MR50T
	47000	35 x 40	0.40	6.76	565-2621-ND	4.30	38.70	292.40	ESMH160VSN473MA40T
	68000	35 x 50	0.40	8.63	565-2623-ND	5.18	46.58	351.90	ESMH160VSN683MA50T
	100000	35 x 80	0.30	11.39	565-2624-ND	7.47	66.40	531.20	ESMH160VSN104MA80T
25	6800	22 x 30	0.30	2.40	565-2626-ND	2.56	19.98	158.34	ESMH250VSN682MP30T
	6800	25.4 x 25	0.30	2.56	565-2627-ND	2.88	22.47	178.08	ESMH250VSN682MQ25T
	8200	22 x 35	0.30	2.72	565-2628-ND	2.79	21.73	172.20	ESMH250VSN822MP35T
	10000	22 x 40	0.30	3.09	565-2629-ND	3.01	23.43	185.64	ESMH250VSN103MP40T
	10000	25.4 x 30	0.30	3.12	565-2630-ND	3.26	26.25	204.75	ESMH250VSN103MQ30T
	12000	22 x 45	0.30	3.48	565-2631-ND	3.23	25.15	199.29	ESMH250VSN123MP45T
	12000	25.4 x 35	0.30	3.43	565-2632-ND	3.38	27.25	212.55	ESMH250VSN123MQ35T
	15000	22 x 50	0.30	4.00	565-2633-ND	3.10	25.00	195.00	ESMH250VSN153MP50T
	15000	25.4 x 40	0.30	3.95	565-2634-ND	3.16	25.50	198.90	ESMH250VSN153MQ40T
	18000	25.4 x 45	0.30	4.45	565-2635-ND	3.60	29.00	226.20	ESMH250VSN183MQ45T
	18000	30 x 35	0.30	4.46	565-2636-ND	4.12	33.25	259.35	ESMH250VSN183MR35T
	22000	25.4 x 50	0.30	5.02	565-2637-ND	3.75	30.25	235.95	ESMH250VSN223MQ50T
	22000	30 x 45	0.30	5.21	565-2638-ND	3.75	33.75	255.00	ESMH250VSN223MR45T
	27000	30 x 50	0.30	5.94	565-2639-ND	4.03	36.23	273.70	ESMH250VSN273MR50T
	27000	35 x 40	0.30	5.92	565-2640-ND	4.33	38.93	294.10	ESMH250VSN273MA40T
	33000	35 x 45	0.30	6.75	565-2641-ND	4.78	42.98	324.70	ESMH250VSN333MA45T
	39000	35 x 50	0.30	7.56	565-2642-ND	5.23	47.03	355.30	ESMH250VSN393MA50T
35	3900	22 x 25	0.25	2.22	565-2643-ND	2.51	19.58	155.19	ESMH350VSN392MP25T
	4700	22 x 30	0.25	2.41	565-2644-ND	2.62	20.41	161.70	ESMH350VSN472MP30T
	4700	25.4 x 25	0.25	2.42	565-2645-ND	3.34	26.02	206.22	ESMH350VSN472MQ25T
	5600	22 x 35	0.25	2.75	565-2646-ND	2.77	21.57	170.94	ESMH350VSN562MP35T
	6800	22 x 40	0.25	2.80	565-2647-ND	2.98	23.21	183.96	ESMH350VSN682MP40T
	6800	25.4 x 30	0.25	2.74	565-2648-ND	3.15	24.54	194.46	ESMH350VSN682MQ30T
	8200	25.4 x 35	0.25	3.10	565-2650-ND	3.29	25.63	203.07	ESMH350VSN822MQ35T
	10000	22 x 50	0.25	3.57	565-2651-ND	3.38	27.25	212.55	ESMH350VSN103MP50T
	10000	25.4 x 40	0.25	3.53	565-2652-ND	3.53	28.50	222.30	ESMH350VSN103MQ40T
	10000	30 x 30	0.25	3.46	565-2653-ND	4.56	36.75	286.65	ESMH350VSN103MR30T
	12000	25.4 x 45	0.25	3.98	565-2654-ND	3.50	28.25	220.35	ESMH350VSN123MQ45T
	12000	30 x 35	0.25	4.01	565-2655-ND	3.94	31.75	247.65	ESMH350VSN123MR35T
	15000	25.4 x 50	0.25	4.54	565-2656-ND	3.91	31.50	245.70	ESMH350VSN153MQ50T
	15000	30 x 40	0.25	4.52	565-2657-ND	4.43	35.75	278.85	ESMH350VSN153MR40T
	15000	35 x 35	0.25	5.01	565-2658-ND	3.88	34.88	263.50	ESMH350VSN153MA35T
	18000	30 x 45	0.25	4.71	565-2659-ND	3.88	34.88	263.50	ESMH350VSN183MR45T
	18000	35 x 40	0.25	5.54	565-2660-ND	3.36	26.21	207.69	ESMH350VSN183MA40T
35	22000	30 x 50	0.25	5.33	565-2661-ND	4.80	43.20	326.40	ESMH350VSN223MR50T
	22000	35 x 45	0.25	6.04	565-2662-ND	5.88	52.88	399.50	ESMH350VSN223MA45T
	27000	35 x 45	0.25	6.89	565-2663-ND	5.93	53.33	402.90	ESMH350VSN273MA50T
50	2200	22 x 25	0.20	1.91	565-2664-ND	2.50	19.50	154.56	ESMH500VSN222MP25T
	3300	22 x 30	0.20	2.37	565-2665-ND	3.03	23.64	187.32	ESMH500VSN332MP30T
	3900	22 x 35	0.20	2.65	565-2666-ND	2.86	22.26	176.40	ESMH500VSN392MP35T
	3900	25.4 x 30	0.20	2.68	565-2667-ND	3.11	24.25	192.15	ESMH500VSN392MQ30T
	4700	22 x 40	0.20	2.99	565-2668-ND	3.10	25.00	195.00	ESMH500VSN472MP40T
	4700	25.4 x 35	0.20	3.03	565-2669-ND	3.29	26.50	206.70	ESMH500VSN472MQ35T
	5600	25.4 x 35	0.20	3.31	565-2671-ND	3.44	27.75	216.45	ESMH500VSN562MQ35T
	6800	22 x 50	0.20	3.81	565-2672-ND	3.72	30.00	234.00	ESMH500VSN682MP50T
	6800	25.4 x 40	0.20	3.81	565-2673-ND	3.41	27.50	214.50	ESMH500VSN682MQ40T
	6800	30 x 35	0.20	3.85	565-2674-ND	3.83	34.43	260.10	ESMH500VSN682MR35T
	8200	25.4 x 50	0.20	4.37	565-2675-ND	3.72	30.00	234.00	ESMH500VSN822MQ50T
	8200	30 x 40	0.20	4.36	565-2676-ND	4.34	35.00	273.00	ESMH500VSN822MR40T
	10000	30 x 45	0.20	4.97	565-2677-ND	3.83	34.43	260.10	ESMH500VSN103MR45T
	10000	35 x 35	0.20	4.92	565-2678-ND	4.15	37.35	282.20	ESMH500VSN103MA35T
	12000	30 x 50	0.20	5.60	565-2679-ND	4.13	37.13	280.50	ESMH500VSN123MR50T
	12000	35 x 40	0.20	5.58	565-2680-ND	4.43	39.83	300.90	ESMH500VSN123MA40T
	15000	35 x 45	0.20	6.44	565-2681-ND	5.75	51.75	391.00	ESMH500VSN153MA45T
	18000	35 x 50	0.20	6.71	565-2682-ND	6.20	55.80	421.60	ESMH500VSN183MA50T
63	1800	22 x 25	0.15	1.82	565-2683-ND	2.54	19.82	157.08	ESMH630VSN182MP25T
	2200	22 x 30	0.15	2.31	565-2684-ND	2.77	21.57	170.94	ESMH630VSN222MP30T
	2700	22 x 35	0.15	2.40	565-2686-ND	2.93	22.87	181.23	ESMH630VSN272MP35T
	2700	25.4 x 25	0.15	2.40	565-2685-ND	3.07	23.96	189.84	ESMH630VSN272MQ25T
	3300	22 x 35	0.15	2.62	565-2688-ND	3.13	24.43	193.62	ESMH630VSN332MP35T
	3300	25.4 x 30	0.15	2.64	565-2687-ND	3.35	26.10	206.85	ESMH630VSN332MQ30T
	3900	22 x 40	0.15	2.93	565-2689-ND	3.36	26.16	207.27	ESMH630VSN392MP40T
	3900	25.4 x 35	0.15	2.97	565-2690-ND	3.19	25.75	200.85	ESMH630VSN392MQ35T
	4700	22 x 50	0.15	3.39	565-2691-ND	3.35	27.00	210.60	ESMH630VSN472MP50T
	4700	25.4 x 40	0.15	3.36	565-2692-ND	3.47	28.00	218.40	ESMH630VSN472MQ40T
	5600	25.4 x 45	0.15	3.77	565-2693-ND	3.72	30.00	234.00	ESMH630VSN562MQ45T
	5600	30 x 35	0.15	3.75	565-2694-ND	3.97	32.00	249.60	ESMH630VSN562MR35T
	6800	25.4 x 50	0.15	4.27	565-2695-ND	4.15	33.50	261.30	ESMH630VSN682MQ50T
	6800	30 x 40	0.15	4.27	565-2696-ND	4.28	34.50	269.10	ESMH630VSN682MR40T
	8200	30 x 45	0.15	4.83	565-2697-ND	4.13	37.13	280.50	ESMH630VSN822MR45T
	10000	30 x 50	0.15	5.49	565-2698-ND	4.23	38.03	287.30	ESMH630VSN103MR50T
	10000	35 x 40	0.15	5.47	565-2699-ND	4.85	43.65	329.80	ESMH630VSN103MA40T
	12000	35 x 45	0.15	6.19	565-2700-ND	6.05	54.45	411.40	ESMH630VSN123MA45T
100	820	22 x 25	0.15	1.86	565-2701-ND	2.61	20.35	161.28	ESMH101VSN821MP25T
	1200	22 x 30	0.15	2.09	565-2702-ND	2.78	21.65	171.57	ESMH101VSN122MP30T
	1500	22 x 35	0.15	2.41	565-2703-ND	3.10	24.19	191.73	ESMH101VSN152MP35T
	1500	25.4 x 30	0.15	2.43	565-2704-ND	4.88	43.88	331.50	ESMH101VSN152MQ30T
	1800	25.4 x 35	0.15	2.75	565-2706-ND	3.53	28.50	222.30	ESMH101VSN182MQ35T
	2200	22 x 45	0.15	3.08	565-2707-ND	3.66	29.50	230.10	ESMH101VSN222MP45T
	2200	25.4 x 40	0.15	3.13	565-2708-ND	3.60	29.00	226.20	ESMH101VSN222MQ40T
	2700	22 x 50	0.15	3.53	565-2709-ND	3.60	29.00	226.20	ESMH101VSN272MP50T
	3300	25.4 x 50	0.15	4.06	565-2712-ND	4.43	35.75	278.85	ESMH101VSN332MQ50T
	3300	30 x 40	0.15	4.05	565-2713-ND	3.95	35.55	268.60	ESMH101VSN332MR40T
	3900	30 x 45	0.15	4.54	565-2714-ND	3.98	35.78	270.30	ESMH101VSN392MR45T
	4700	30 x 50	0.15	5.13	565-2715-ND	4.88	43.88	331.50	ESMH101VSN472MR50T
	4700	35 x 40	0.15	5.11	565-2716-ND	5.20	46.80	353.60	ESMH101VSN472MA40T
	5600	35 x 45	0.15	5.75	565-2717-ND	5.50	49.50	374.00	ESMH101VSN562MA45T
	6800	35 x 50	0.15	6.50	565-2718-ND	6.10	54.90	414.80	ESMH101VSN682MA50T

SMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 85°C

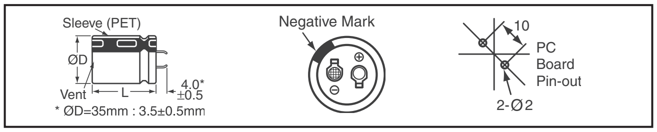

Features: • General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 85°C
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: 120Hz: 1≤ $3\sqrt{CV}$ (uA) after 5 minutes @ 20ºC

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
160	560	22x25	0.15	2.25	565-2719-ND	2.36	18.40	145.81	ESMQ161VSN561MP25S
	1000	22x40	0.15	3.00	565-2722-ND	3.26	25.38	201.11	ESMQ161VSN102MP40S
	1000	25.4x30	0.15	3.00	565-2723-ND	3.29	25.65	203.28	ESMQ161VSN102MQ30S
	1500	30x30	0.15	3.73	565-2724-ND	4.05	32.67	254.83	ESMQ161VSN152MR30S
	1800	30x35	0.15	4.20	565-2726-ND	3.75	33.76	255.04	ESMQ161VSN182MR35S
	2200	30x40	0.15	4.78	565-2727-ND	4.44	39.98	302.08	ESMQ161VSN222MR40S
	3300	35x45	0.15	5.75	565-2728-ND	5.82	51.71	413.68	ESMQ161VSN332MA45S
	3900	35x50	0.15	6.00	565-2729-ND	6.65	59.12	473.00	ESMQ161VSN392MA50S
200	390	22x25	0.15	1.68	565-2730-ND	2.25	17.55	139.05	ESMQ201VSN391MP25S
	470	22x30	0.15	1.85	565-2731-ND	2.71	21.10	167.19	ESMQ201VSN471MP30S
	560	22x30	0.15	2.43	565-2732-ND	2.81	21.93	173.76	ESMQ201VSN561MP30S
	680	22x35	0.15	2.68	565-2733-ND	2.59	20.17	159.82	ESMQ201VSN681MP35S
	680	25.4x30	0.15	2.68	565-2734-ND	3.11	25.08	195.65	ESMQ201VSN681MQ30S
	820	22x40	0.15	2.93	565-2735-ND	3.68	29.65	231.24	ESMQ201VSN821MP40S
	1000	22x45	0.15	3.25	565-2736-ND	3.76	30.32	236.50	ESMQ201VSN102MP45S
	1000	25.4x35	0.15	3.25	565-2737-ND	3.42	27.59	215.17	ESMQ201VSN102MQ35S
	1000	30x30	0.15	3.25	565-2738-ND	3.97	32.00	249.60	ESMQ201VSN102MR30S
	1200	25.4x40	0.15	3.50	565-2739-ND	10.08	81.25	633.75	ESMQ201VSN122MQ40S
	1500	25.4x50	0.15	3.87	565-2740-ND	4.01	36.11	272.85	ESMQ201VSN152MQ50S
	1800	30x45	0.15	4.32	565-2741-ND	4.89	43.97	332.22	ESMQ201VSN182MR45S
	2200	30x50	0.15	4.92	565-2742-ND	5.71	51.37	388.11	ESMQ201VSN222MR50S
	2200	35x40	0.15	4.92	565-2743-ND	6.21	55.91	422.42	ESMQ201VSN222MA40S
	2700	35x50	0.15	5.45	565-2744-ND	5.92	52.60	420.78	ESMQ201VSN272MA50S
250	390	22x30	0.15	1.91	565-2745-ND	2.76	21.50	170.35	ESMQ251VSN391MP30S
	470	22x35	0.15	2.11	565-2746-ND	3.32	25.91	205.33	ESMQ251VSN471MP35S
	470	25.4x30	0.15	2.11	565-2747-ND	3.01	23.46	185.91	ESMQ251VSN471MQ30S
	560	22x40	0.15	2.25	565-2748-ND	3.36	27.13	211.63	ESMQ251VSN561MP40S
	560	25.4x30	0.15	2.25	565-2749-ND	3.31	26.66	207.94	ESMQ251VSN561MQ30S
	680	22x45	0.15	2.50	565-2750-ND	3.76	30.32	236.50	ESMQ251VSN681MP45S
	680	25.4x35	0.15	2.50	565-2751-ND	3.74	30.15	235.18	ESMQ251VSN681MQ35S
	820	25.4x40	0.15	2.77	565-2753-ND	4.47	36.07	281.33	ESMQ251VSN821MQ40S
	1000	25.4x45	0.15	3.32	565-2754-ND	3.84	34.58	261.26	ESMQ251VSN102MQ45S
	1000	30x35	0.15	3.32	565-2755-ND	4.20	37.81	285.64	ESMQ251VSN102MR35S
	1200	30x40	0.15	3.53	565-2756-ND	4.78	43.00	324.92	ESMQ251VSN122MR40S
	1500	30x50	0.15	4.04	565-2757-ND	5.78	51.98	392.70	ESMQ251VSN152MR50S
	1500	35x40	0.15	4.04	565-2758-ND	6.23	56.03	423.34	ESMQ251VSN152MA40S
	1800	35x45	0.15	4.55	565-2759-ND	6.39	56.78	454.24	ESMQ251VSN182MA45S
350	150	22x25	0.15	1.12	565-2760-ND	2.65	20.65	163.60	ESMQ351VSN151MP25S
	270	25.4x30	0.15	1.66	565-2761-ND	3.37	26.24	207.90	ESMQ351VSN271MQ30S
	390	22x50	0.15	2.06	565-2762-ND	3.84	34.54	260.95	ESMQ351VSN391MP50S
	470	30x35	0.15	2.40	565-2763-ND	4.63	37.31	290.99	ESMQ351VSN471MR35S
	560	30x40	0.15	2.60	565-2764-ND	4.67	41.99	317.27	ESMQ351VSN561MR40S
	680	35x35	0.15	2.96	565-2765-ND	6.09	54.16	433.24	ESMQ351VSN681MA35S
	820	30x50	0.15	3.25	565-2766-ND	6.45	57.34	458.72	ESMQ351VSN821MR50S
	820	35x45	0.15	3.25	565-2767-ND	6.07	54.66	412.97	ESMQ351VSN821MA45S
	1000	35x50	0.15	3.54	565-2768-ND	6.19	55.04	440.34	ESMQ351VSN102MA50S
400	150	22x30	0.15	1.16	565-2769-ND	2.81	21.89	173.46	ESMQ401VSN151MP30S
	180	22x35	0.15	1.44	565-2770-ND	2.97	23.14	183.34	ESMQ401VSN181MP35S
	220	22x40	0.15	1.49	565-2771-ND	3.37	26.27	208.17	ESMQ401VSN221MP40S
	220	25.4x30	0.15	1.49	565-2772-ND	3.31	26.73	208.49	ESMQ401VSN221MQ30S
	270	22x45	0.15	1.67	565-2773-ND	3.83	30.89	240.95	ESMQ401VSN271MP45S
	270	25.4x35	0.15	1.67	565-2774-ND	3.82	30.79	240.19	ESMQ401VSN271MQ35S
	330	22x50	0.15	1.90	565-2775-ND	3.89	35.03	264.64	ESMQ401VSN331MP50S
	330	25.4x40	0.15	1.90	565-2776-ND	4.52	36.48	284.51	ESMQ401VSN331MQ40S
	390	25.4x45	0.15	2.13	565-2777-ND	4.08	36.73	277.49	ESMQ401VSN391MQ45S
	470	25.4x50	0.15	2.39	565-2778-ND	5.09	45.84	346.32	ESMQ401VSN471MQ50S
	470	30x40	0.15	2.39	565-2779-ND	5.01	45.06	340.44	ESMQ401VSN471MR40S
	560	30x45	0.15	2.69	565-2780-ND	6.06	54.55	412.14	ESMQ401VSN561MR45S
	680	30x50	0.15	2.96	565-2781-ND	6.54	58.16	465.26	ESMQ401VSN681MR50S
	680	35x40	0.15	2.96	565-2782-ND	7.02	62.38	499.08	ESMQ401VSN681MA40S
	820	35x45	0.15	3.25	565-2783-ND	8.13	72.26	578.09	ESMQ401VSN821MA45S
450	82	22x25	0.20	0.83	565-2784-ND	2.38	18.55	147.00	ESMQ451VSN820MP25S
	100	22x25	0.20	0.93	565-2785-ND	2.97	23.14	183.34	ESMQ451VSN101MP25S
	120	22x30	0.20	1.04	565-2786-ND	2.83	22.07	174.87	ESMQ451VSN121MP30S
	150	25.4x25	0.20	1.19	565-2787-ND	3.24	26.13	203.78	ESMQ451VSN151MQ25S
	180	22x40	0.20	1.35	565-2788-ND	3.38	27.26	212.67	ESMQ451VSN181MP40S
	180	25.4x30	0.20	1.35	565-2789-ND	3.88	31.29	244.08	ESMQ451VSN181MQ30S
	220	22x45	0.20	1.55	565-2790-ND	3.93	31.68	247.14	ESMQ451VSN221MP45S
	270	22x50	0.20	1.78	565-2792-ND	4.04	36.33	274.46	ESMQ451VSN271MP50S
	270	25.4x40	0.20	1.78	565-2793-ND	4.01	36.09	272.65	ESMQ451VSN271MQ40S
	330	25.4x50	0.20	2.01	565-2794-ND	5.80	52.20	394.40	ESMQ451VSN331MQ50S
	330	30x40	0.20	2.01	565-2795-ND	4.59	41.34	312.36	ESMQ451VSN331MR40S
	390	30x40	0.20	2.24	565-2796-ND	5.81	52.25	394.78	ESMQ451VSN391MR40S
	470	30x45	0.20	2.53	565-2797-ND	5.91	52.49	419.92	ESMQ451VSN471MR45S
	470	35x40	0.20	2.53	565-2798-ND	6.43	57.14	457.09	ESMQ451VSN471MA40S
	560	30x50	0.20	2.82	565-2799-ND	6.63	58.96	471.72	ESMQ451VSN561MR50S
	560	35x45	0.20	2.82	565-2800-ND	6.68	59.34	474.71	ESMQ451VSN561MA45S

KMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 105°C

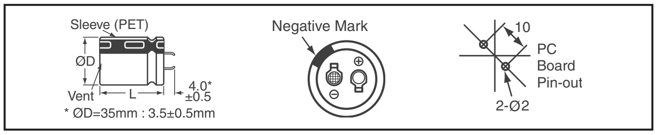

Features:

- General Purpose • High CV • High Ripple • 2,000 Hours @ 105°C

Specifications:

- Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
16	6800	22x25	0.40	1.57	565-2831-ND	2.42	18.89	149.73	EKMH160VSN682MP25T
	10000	22x30	0.40	1.97	565-2832-ND	2.95	22.98	182.07	EKMH160VSN103MP30T
	10000	25.4x25	0.40	1.97	565-2833-ND	3.16	24.62	195.09	EKMH160VSN103MQ25T
	12000	22x35	0.40	2.22	565-2834-ND	2.74	21.36	169.26	EKMH160VSN123MP35T
	12000	25.4x30	0.40	2.24	565-2835-ND	3.05	23.74	188.16	EKMH160VSN123MQ30T
	15000	22x40	0.40	2.55	565-2836-ND	2.97	23.13	183.33	EKMH160VSN153MP40T
	15000	25.4x35	0.40	2.58	565-2837-ND	3.20	24.96	197.82	EKMH160VSN153MQ35T
	18000	25.4x40	0.40	2.92	565-2839-ND	3.13	25.25	196.95	EKMH160VSN183MQ40T
	22000	25.4x45	0.40	3.32	565-2840-ND	3.41	27.50	214.50	EKMH160VSN223MQ45T
	22000	30x35	0.40	3.29	565-2841-ND	3.94	31.75	247.65	EKMH160VSN223MR35T
	27000	25.4x50	0.40	3.78	565-2842-ND	3.69	29.75	232.05	EKMH160VSN273MQ50T
	33000	30x45	0.40	4.30	565-2844-ND	4.59	37.00	288.60	EKMH160VSN333MR45T
	47000	35x45	0.40	5.43	565-2847-ND	5.68	51.08	385.90	EKMH160VSN473MA45T
25	4700	22x25	0.30	1.50	565-2848-ND	2.80	21.84	173.04	EKMH250VSN472MP25T
	5600	22x25	0.30	1.63	565-2849-ND	2.53	19.72	156.24	EKMH250VSN562MP25T
	6800	22x30	0.30	1.86	565-2850-ND	2.64	20.59	163.17	EKMH250VSN682MP30T
	8200	22x35	0.30	2.11	565-2851-ND	2.79	21.76	172.41	EKMH250VSN822MP35T
	8200	25.4x30	0.30	2.12	565-2852-ND	3.03	23.59	186.90	EKMH250VSN822MQ30T
	10000	22x40	0.30	2.39	565-2853-ND	3.01	23.43	185.64	EKMH250VSN103MP40T
	10000	25.4x35	0.30	2.42	565-2854-ND	3.22	25.07	198.66	EKMH250VSN103MQ35T
	12000	22x45	0.30	2.69	565-2856-ND	3.22	25.12	199.08	EKMH250VSN123MP45T
25	12000	25.4x40	0.30	2.74	565-2855-ND	3.37	26.29	208.32	EKMH250VSN123MQ40T
	15000	25.4x45	0.30	3.15	565-2857-ND	3.38	27.25	212.55	EKMH250VSN153MQ45T
	15000	30x35	0.30	3.13	565-2858-ND	4.06	32.75	255.45	EKMH250VSN153MR35T
	18000	25.4x50	0.30	3.54	565-2859-ND	3.69	29.75	232.05	EKMH250VSN183MQ50T
	18000	30x40	0.30	3.54	565-2860-ND	4.40	35.50	276.90	EKMH250VSN183MR40T
	22000	30x45	0.30	4.04	565-2861-ND	4.59	37.00	288.60	EKMH250VSN223MR45T
	27000	35x45	0.30	4.73	565-2862-ND	4.65	41.85	316.20	EKMH250VSN273MA45T
	33000	35x50	0.30	5.39	565-2863-ND	5.18	46.58	351.90	EKMH250VSN333MA50T
35	3300	22x25	0.25	1.40	565-2864-ND	2.50	19.45	154.14	EKMH350VSN332MP25T
	4700	22x30	0.25	1.72	565-2866-ND	2.68	20.91	165.69	EKMH350VSN472MP30T
	4700	25.4x25	0.25	1.80	565-2867-ND	2.92	22.74	180.18	EKMH350VSN472MQ25T
	5600	22x35	0.25	1.95	565-2868-ND	2.87	22.39	177.45	EKMH350VSN562MP35T
	5600	25.4x30	0.25	1.96	565-2869-ND	3.15	24.51	194.25	EKMH350VSN562MQ30T
	6800	22x40	0.25	2.20	565-2870-ND	3.08	23.98	190.05	EKMH350VSN682MP40T
	6800	25.4x35	0.25	2.23	565-2871-ND	3.22	25.07	198.66	EKMH350VSN682MQ35T
	8200	22x50	0.25	2.55	565-2872-ND	3.10	25.00	195.00	EKMH350VSN822MP50T
	8200	25.4x40	0.25	2.53	565-2873-ND	3.16	25.50	198.90	EKMH350VSN822MQ40T
	10000	25.4x45	0.25	2.87	565-2874-ND	3.41	27.50	214.50	EKMH350VSN103MQ45T
	10000	30x35	0.25	2.90	565-2875-ND	3.97	32.00	249.60	EKMH350VSN103MR35T
	12000	25.4x50	0.25	3.24	565-2876-ND	3.66	29.50	230.10	EKMH350VSN123MQ50T
	15000	30x45	0.25	3.72	565-2877-ND	3.80	34.20	258.40	EKMH350VSN153MR45T
	15000	35x35	0.25	3.67	565-2878-ND	4.15	37.35	282.20	EKMH350VSN153MA35T
	18000	35x40	0.25	4.37	565-2879-ND	4.38	39.38	297.50	EKMH350VSN183MA40T
	22000	35x50	0.25	4.92	565-2880-ND	4.90	44.10	333.20	EKMH350VSN223MA50T

(Continued)

KMH Series Aluminum Electrolytic Capacitors (Snap-In) *(Cont.)*

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
50	1800	22x25	0.20	1.33	565-2881-ND	2.50	19.50	154.56	EKMH500VSN182MP25T
	2700	22x30	0.20	1.69	565-2882-ND	2.68	20.86	165.27	EKMH500VSN272MP30T
	2700	25.4x25	0.20	1.70	565-2883-ND	2.93	22.84	181.02	EKMH500VSN272MQ25T
	3300	22x35	0.20	1.93	565-2884-ND	2.88	22.42	177.66	EKMH500VSN332MP35T
	3300	25.4x30	0.20	1.85	565-2885-ND	3.10	24.19	191.73	EKMH500VSN332MQ30T
	3900	22x40	0.20	2.16	565-2886-ND	3.08	24.04	190.47	EKMH500VSN392MP40T
	3900	25.4x35	0.20	2.18	565-2887-ND	3.21	25.02	198.24	EKMH500VSN392MQ35T
	4700	22x45	0.20	2.43	565-2888-ND	3.30	25.73	203.91	EKMH500VSN472MP45T
	4700	25.4x35	0.20	2.39	565-2889-ND	3.39	26.42	209.37	EKMH500VSN472MQ35T
	4700	30x30	0.20	2.25	565-2890-ND	3.72	30.00	234.00	EKMH500VSN472MR30T
	5600	22x50	0.20	2.75	565-2891-ND	3.26	26.25	204.75	EKMH500VSN562MP50T
	5600	25.4x40	0.20	2.70	565-2892-ND	3.35	27.00	210.60	EKMH500VSN562MQ40T
	6800	25.4x50	0.20	3.30	565-2894-ND	3.78	30.50	237.90	EKMH500VSN682MQ50T
	6800	35x30	0.20	3.25	565-2895-ND	3.97	32.00	249.60	EKMH500VSN682MA30T
	8200	30x45	0.20	3.60	565-2896-ND	4.62	37.25	290.55	EKMH500VSN822MR45T
	8200	35x35	0.20	3.55	565-2897-ND	4.13	37.13	280.50	EKMH500VSN822MA35T
	10000	30x50	0.20	4.04	565-2898-ND	4.20	37.80	285.60	EKMH500VSN103MR50T
	10000	35x40	0.20	4.03	565-2899-ND	4.50	40.50	306.00	EKMH500VSN103MA40T
	12000	35x45	0.20	4.55	565-2900-ND	4.85	43.65	329.80	EKMH500VSN123MA45T
63	1200	22x25	0.15	1.19	565-2901-ND	2.45	19.11	151.41	EKMH630VSN122MP25T
	1500	22x25	0.15	1.33	565-2902-ND	2.53	19.72	156.24	EKMH630VSN152MP25T
	2200	22x35	0.15	1.73	565-2904-ND	2.84	22.13	175.35	EKMH630VSN222MP35T
	2200	25.4x30	0.15	1.74	565-2905-ND	3.06	23.82	188.79	EKMH630VSN222MQ30T
	2700	25.4x35	0.15	1.99	565-2906-ND	3.23	25.15	199.29	EKMH630VSN272MQ35T
63	3300	22x50	0.15	2.29	565-2908-ND	3.10	25.00	195.00	EKMH630VSN332MP50T
	3300	25.4x40	0.15	2.27	565-2909-ND	3.16	25.50	198.90	EKMH630VSN332MQ40T
	3900	25.4x45	0.15	2.54	565-2910-ND	3.35	27.00	210.60	EKMH630VSN392MQ45T
	3900	30x35	0.15	2.55	565-2911-ND	3.63	29.25	228.15	EKMH630VSN392MR35T
	4700	25.4x50	0.15	2.86	565-2912-ND	3.69	29.75	232.05	EKMH630VSN472MQ50T
	4700	30x40	0.15	2.86	565-2913-ND	4.00	32.25	251.55	EKMH630VSN472MR40T
	5600	30x45	0.15	3.22	565-2914-ND	3.78	33.98	256.70	EKMH630VSN562MR45T
	6800	30x50	0.15	3.65	565-2915-ND	4.10	36.90	278.80	EKMH630VSN682MR50T
	6800	35x40	0.15	3.64	565-2916-ND	4.25	38.25	289.00	EKMH630VSN682MA40T
	8200	35x45	0.15	3.90	565-2917-ND	4.73	42.53	321.30	EKMH630VSN822MA45T
	10000	35x50	0.15	4.40	565-2918-ND	5.00	45.00	340.00	EKMH630VSN103MA40T
100	560	22x25	0.15	1.05	565-2919-ND	2.51	19.58	155.19	EKMH101VSN561MP25T
	820	22x30	0.15	1.32	565-2920-ND	2.78	21.65	171.57	EKMH101VSN821MP30T
	1000	22x35	0.15	1.50	565-2922-ND	3.00	23.35	185.01	EKMH101VSN102MP35T
	1000	25.4x30	0.15	1.51	565-2921-ND	3.21	25.04	198.45	EKMH101VSN102MQ30T
	1200	22x40	0.15	1.69	565-2924-ND	3.23	25.20	199.71	EKMH101VSN122MP40T
	1200	25.4x35	0.15	1.71	565-2923-ND	3.33	25.92	205.38	EKMH101VSN122MQ35T
	1500	22x45	0.15	1.94	565-2925-ND	3.26	26.25	204.75	EKMH101VSN152MP45T
	1500	25.4x40	0.15	1.98	565-2926-ND	3.32	26.75	208.65	EKMH101VSN152MQ40T
	1800	30x35	0.15	2.50	565-2927-ND	3.81	30.75	239.85	EKMH101VSN182MR35T
	2200	25.4x50	0.15	2.53	565-2929-ND	3.88	31.25	243.75	EKMH101VSN222MQ50T
	2200	30x40	0.15	2.70	565-2930-ND	4.12	33.25	259.35	EKMH101VSN222MR40T
	2700	30x45	0.15	2.88	565-2931-ND	3.83	34.43	260.10	EKMH101VSN272MR45T
	3300	30x50	0.15	3.28	565-2932-ND	4.10	36.90	278.80	EKMH101VSN332MR50T
	3300	35x40	0.15	3.27	565-2933-ND	4.80	43.20	326.40	EKMH101VSN332MA40T
	3900	35x45	0.15	3.67	565-2934-ND	5.23	47.03	355.30	EKMH101VSN392MA45T
	4700	35x50	0.15	3.80	565-2935-ND	5.88	52.88	399.50	EKMH101VSN472MA50T

KMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 105°C

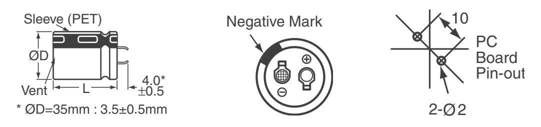

Features:

• General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 105°C

Specifications:

• Operating Temperature Range: -25°C ~ 105°C • Capacitance Tolerance: 20% • Leakage Current @ 20°C: I≤ $3\sqrt{CV}$ (uA) after 5 minutes @ 20°C

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
160	470	22x25	0.15	1.40	565-2936-ND	2.61	20.33	161.07	EKMQ161VSN471MP25S
	680	22x30	0.15	1.70	565-2937-ND	3.19	24.88	197.19	EKMQ161VSN681MP30S
	820	22x35	0.15	2.00	565-2938-ND	3.38	27.25	212.55	EKMQ161VSN821MP35S
	1000	22x40	0.15	2.20	565-2939-ND	3.81	30.75	239.85	EKMQ161VSN102MP40S
	1000	25.4x35	0.15	2.20	565-2940-ND	3.81	30.75	239.85	EKMQ161VSN102MQ35S
	1200	25.4x40	0.15	2.30	565-2941-ND	4.34	35.00	273.00	EKMQ161VSN122MQ40S
	1500	25.4x45	0.15	2.50	565-2942-ND	4.35	39.15	295.80	EKMQ161VSN152MQ45S
	1500	30x35	0.15	2.50	565-2943-ND	4.63	41.63	314.50	EKMQ161VSN152MR35S
	1800	30x40	0.15	2.70	565-2944-ND	5.33	47.93	362.10	EKMQ161VSN182MR40S
	2200	30x45	0.15	2.90	565-2945-ND	5.65	50.20	401.60	EKMQ161VSN222MR45S
	2700	35x40	0.15	3.10	565-2947-ND	6.64	59.00	472.00	EKMQ161VSN272MA40S
200	390	22x25	0.15	1.31	565-2949-ND	2.84	22.13	175.35	EKMQ201VSN391MP25S
	470	22x30	0.15	1.45	565-2950-ND	3.19	24.83	196.77	EKMQ201VSN471MP30S
	560	22x30	0.15	1.67	565-2951-ND	3.13	25.25	196.95	EKMQ201VSN561MP30S
	680	22x40	0.15	1.75	565-2952-ND	3.72	30.00	234.00	EKMQ201VSN681MP40S
	680	25.4x30	0.15	1.75	565-2953-ND	3.75	30.25	235.95	EKMQ201VSN681MQ30S
	820	22x45	0.15	2.04	565-2954-ND	4.22	34.00	265.20	EKMQ201VSN821MP45S
	820	25.4x35	0.15	2.04	565-2955-ND	4.28	34.50	269.10	EKMQ201VSN821MQ35S
	1000	22x50	0.15	2.30	565-2956-ND	3.93	35.33	266.90	EKMQ201VSN102MP50S
	1000	25.4x45	0.15	2.30	565-2957-ND	4.03	36.23	273.70	EKMQ201VSN102MQ45S
	1000	30x30	0.15	2.30	565-2958-ND	4.45	40.05	302.60	EKMQ201VSN102MR30S
	1200	25.4x50	0.15	2.65	565-2959-ND	4.68	42.08	317.90	EKMQ201VSN122MQ50S
	1200	30x35	0.15	2.65	565-2960-ND	5.08	45.68	345.10	EKMQ201VSN122MR35S
	1500	30x40	0.15	2.80	565-2961-ND	6.03	54.23	409.70	EKMQ201VSN152MR40S
	1800	30x45	0.15	3.08	565-2962-ND	6.23	55.40	443.20	EKMQ201VSN182MR45S
	1800	35x40	0.15	3.08	565-2963-ND	6.17	54.80	438.40	EKMQ201VSN182MA40S
	2200	35x45	0.15	3.48	565-2964-ND	7.67	68.20	545.60	EKMQ201VSN222MA45S
250	220	22x25	0.15	1.00	565-2965-ND	2.82	21.97	174.09	EKMQ251VSN221MP25S
	270	22x25	0.15	1.10	565-2966-ND	3.21	25.02	198.24	EKMQ251VSN271MP25S
	330	22x30	0.15	1.20	565-2967-ND	3.32	26.75	208.65	EKMQ251VSN331MP30S
	330	25.4x25	0.15	1.20	565-2968-ND	3.22	25.10	198.87	EKMQ251VSN331MQ25S
	390	22x35	0.15	1.30	565-2969-ND	3.57	28.75	224.25	EKMQ251VSN391MP35S
	470	22x40	0.15	1.40	565-2970-ND	4.06	32.75	255.45	EKMQ251VSN471MP40S
	470	25.4x30	0.15	1.40	565-2971-ND	3.69	29.75	232.05	EKMQ251VSN471MQ30S
	560	22x45	0.15	1.50	565-2972-ND	4.59	37.00	288.60	EKMQ251VSN561MP45S
	560	25.4x35	0.15	1.50	565-2973-ND	4.40	35.50	276.90	EKMQ251VSN561MQ35S
	680	22x50	0.15	1.70	565-2974-ND	4.53	40.73	307.70	EKMQ251VSN681MP50S
	680	25.4x40	0.15	1.70	565-2975-ND	4.13	37.13	280.50	EKMQ251VSN681MQ40S
	820	25.4x45	0.15	2.00	565-2976-ND	4.98	44.78	338.30	EKMQ251VSN821MQ45S
	820	30x35	0.15	2.00	565-2977-ND	4.80	43.20	326.40	EKMQ251VSN821MR35S
	1000	30x40	0.15	2.20	565-2978-ND	5.88	52.88	399.50	EKMQ251VSN102MR40S
	1200	30x45	0.15	2.30	565-2979-ND	6.50	57.80	462.40	EKMQ251VSN122MR45S
	1500	35x45	0.15	2.50	565-2980-ND	7.97	70.80	566.40	EKMQ251VSN152MA45S
	1800	35x50	0.15	2.70	565-2981-ND	9.25	82.20	657.60	EKMQ251VSN182MA50S
350	120	22x25	0.15	0.75	565-2982-ND	2.74	21.39	169.47	EKMQ351VSN121MP25S
	150	22x30	0.15	0.82	565-2983-ND	3.12	24.30	192.57	EKMQ351VSN151MP30S
350	180	22x30	0.15	0.90	565-2984-ND	3.44	27.75	216.45	EKMQ351VSN181MP30S
	220	22x35	0.15	1.00	565-2985-ND	3.97	32.00	249.60	EKMQ351VSN221MP35S
	220	25.4x30	0.15	1.00	565-2986-ND	3.72	30.00	234.00	EKMQ351VSN221MQ30S
	270	30x25	0.15	1.10	565-2987-ND	4.15	37.35	282.20	EKMQ351VSN271MR25S
	330	22x45	0.15	1.20	565-2988-ND	4.15	37.35	282.20	EKMQ351VSN331MP45S
	330	25.4x40	0.15	1.20	565-2989-ND	4.10	36.90	278.80	EKMQ351VSN331MQ40S
	390	25.4x45	0.15	1.30	565-2990-ND	4.63	41.63	314.50	EKMQ351VSN391MQ45S
	390	30x35	0.15	1.30	565-2991-ND	4.98	44.78	338.30	EKMQ351VSN391MR35S
	470	35x30	0.15	1.40	565-2992-ND	5.75	51.75	391.00	EKMQ351VSN471MA30S
	560	35x35	0.15	1.50	565-2993-ND	5.92	52.60	420.80	EKMQ351VSN561MA35S
	680	30x50	0.15	1.70	565-2994-ND	7.00	62.20	497.60	EKMQ351VSN681MR50S
	820	35x45	0.15	1.90	565-2995-ND	8.12	72.20	577.60	EKMQ351VSN821MA45S
400	100	22x25	0.15	0.70	565-2996-ND	3.00	23.40	185.43	EKMQ401VSN101MP25S
	120	22x30	0.15	0.75	565-2997-ND	3.29	25.68	203.49	EKMQ401VSN121MP30S
	150	22x30	0.15	0.88	565-2998-ND	3.63	29.25	228.15	EKMQ401VSN151MP30S
	150	25.4x25	0.15	0.88	565-2999-ND	3.03	23.59	186.90	EKMQ401VSN151MQ25S
	180	22x35	0.15	0.95	565-3000-ND	3.91	31.50	245.70	EKMQ401VSN181MP35S
	180	25.4x30	0.15	0.95	565-3001-ND	4.12	33.25	259.35	EKMQ401VSN181MQ30S
	220	22x45	0.15	1.10	565-3002-ND	4.56	36.75	286.65	EKMQ401VSN221MP45S
	220	25.4x35	0.15	1.10	565-3003-ND	4.62	37.25	290.55	EKMQ401VSN221MQ35S
	270	22x50	0.15	1.22	565-3004-ND	4.30	38.70	292.40	EKMQ401VSN271MP50S
	270	25.4x40	0.15	1.22	565-3005-ND	4.43	39.83	300.90	EKMQ401VSN271MQ40S
	330	25.4x45	0.15	1.44	565-3006-ND	5.08	45.68	345.10	EKMQ401VSN331MQ45S
	330	30x35	0.15	1.44	565-3007-ND	5.33	47.93	362.10	EKMQ401VSN331MR35S
	390	25.4x50	0.15	1.55	565-3008-ND	5.85	52.65	397.80	EKMQ401VSN391MQ50S
	390	30x40	0.15	1.55	565-3009-ND	6.03	54.23	409.70	EKMQ401VSN391MR40S
	470	30x45	0.15	1.68	565-3010-ND	6.19	55.00	440.00	EKMQ401VSN471MR45S
	470	35x35	0.15	1.68	565-3011-ND	6.48	57.60	460.80	EKMQ401VSN471MA35S
	560	30x50	0.15	1.90	565-3012-ND	7.34	65.20	521.60	EKMQ401VSN561MR50S
	560	35x40	0.15	1.90	565-3013-ND	7.49	66.60	532.80	EKMQ401VSN561MA40S
	680	35x45	0.15	2.12	565-3014-ND	8.82	78.40	627.20	EKMQ401VSN681MA45S
450	68	22x25	0.20	0.50	565-3015-ND	2.87	22.37	177.24	EKMQ451VSN680MP25S
	100	22x30	0.20	0.64	565-3016-ND	3.34	26.05	206.43	EKMQ451VSN101MP30S
	100	25.4x25	0.20	0.64	565-3017-ND	3.63	29.25	228.15	EKMQ451VSN101MQ25S
	120	22x35	0.20	0.72	565-3018-ND	3.47	28.00	218.40	EKMQ451VSN121MP35S
	150	22x40	0.20	0.79	565-3019-ND	4.25	34.25	267.15	EKMQ451VSN151MP40S
	150	25.4x30	0.20	0.79	565-3020-ND	4.31	34.75	271.05	EKMQ451VSN151MQ30S
	180	22x45	0.20	0.87	565-3021-ND	3.83	34.43	260.10	EKMQ451VSN181MP45S
	180	25.4x40	0.20	0.87	565-3022-ND	4.10	36.90	278.80	EKMQ451VSN181MQ40S
	220	25.4x45	0.20	1.00	565-3023-ND	5.03	45.23	341.70	EKMQ451VSN221MQ45S
	220	30x30	0.20	1.00	565-3024-ND	4.68	42.08	317.90	EKMQ451VSN221MR30S
	270	25.4x50	0.20	1.19	565-3025-ND	4.28	38.48	290.70	EKMQ451VSN271MQ50S
	270	30x40	0.20	1.19	565-3026-ND	5.68	51.08	385.90	EKMQ451VSN271MR40S
	330	30x45	0.20	1.38	565-3027-ND	6.03	53.60	428.80	EKMQ451VSN331MR45S
	330	35x35	0.20	1.38	565-3028-ND	6.01	53.40	427.20	EKMQ451VSN331MA35S
	390	30x50	0.20	1.55	565-3029-ND	6.98	62.00	496.00	EKMQ451VSN391MR50S
	390	35x40	0.20	1.55	565-3030-ND	6.86	61.00	488.00	EKMQ451VSN391MA40S
	470	35x45	0.20	1.74	565-3031-ND	8.01	71.20	569.60	EKMQ451VSN471MA45S
	560	35x50	0.20	1.90	565-3032-ND	9.74	86.60	692.80	EKMQ451VSN561MA50S

nichicon Decoupling Capacitors for High Frequency

RoHS COMPLIANT

Features:

F11 Series

• Higher Capacitance • Low ESR, High Ripple Current • Resin-molded chip • Designed for surface mounting on high density PC boards • Load life of 1,000 hours at 105°C

F18 Series

• Higher Capacitance • Low ESR, Low ESL, High Ripple Current • Resin-molded chip • Designed for surface mounting on high density PC boards

Case Code	Dimensions in mm									
	L1	L2	W1	W2	H	S1	S2	S3	S4	P
F11 Series										
D	8.5 ±0.2	7.3 ±0.2	5.3 ±0.2	1.3 ±0.3	2.0Max.	0.9 ±0.2	0.6 ±0.2	0.5 ±0.2	—	3.3 ±0.2
F	16.7 ±0.2	15.6 ±0.2	12.1 ±0.2	3.3 ±0.2	2.5Max.	1.5 ±0.1	1.3 ±0.1	1.5 ±0.2	—	7.0 ±0.2
NEW! F18 Series NEW!										
C	6.5 ±0.2	6.0 ±0.2	3.2 ±0.2	2.5 ±0.2	1.9Max.	1.65 ±0.2	3.85 ±0.2	1.0 ±0.2	0.25	—

S4 dimension only for refence

Fig. 1

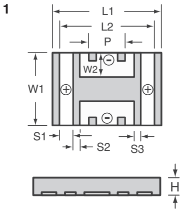

Fig. 2 ***NEW!***

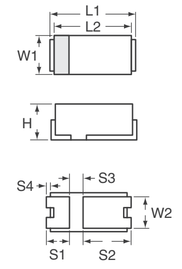

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Code	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape and Reel† Qty.	Tape and Reel† Pricing	Nichicon Part No.
Fig. 1 — F11 Series												
2.5	220	±20%	D	55	5	20.0	493-3120-1-ND	3.94	3.51	1,000	1478.00	F110E227MDL
	600	±20%	F	150	10	5.0	493-3116-1-ND	7.65	7.19	100	393.90	F110E607MFK
	1200	±20%	F	300	10	5.0	493-3117-1-ND	7.98	7.50	1,000	3142.00	F110E128MFK
4	100	±20%	D	40	5	20.0	493-3121-1-ND	3.94	3.51	200	427.00	F110G107MDL
	800	±20%	F	320	10	5.0	493-3118-1-ND	7.65	7.19	100	393.90	F110G807MFK
6.3	47	±20%	D	30	5	20.0	493-3122-1-ND	3.94	3.51	1,000	1478.00	F110J476MDL
	600	±20%	F	378	10	5.0	493-3119-1-ND	7.65	7.19	1,000	3012.00	F110J607MFK
NEW! Fig. 2 — F18 Series NEW!												
2.5	33	±20%	C	8.3	5	70.0	493-4000-1-ND	4.25	3.78	500	856.00	F180E336MCC
	47	±20%	C	11.8	5	70.0	493-4001-1-ND	4.25	3.78	500	856.00	F180E476MCC
	68	±20%	C	17.0	5	60.0	493-4002-1-ND	4.25	3.78	500	856.00	F180E686MCC
4	22	±20%	C	8.8	5	70.0	493-4003-1-ND	4.25	3.78	500	856.00	F180G226MCC
	33	±20%	C	13.2	5	70.0	493-4004-1-ND	4.25	3.78	500	856.00	F180G336MCC
	47	±20%	C	18.8	5	60.0	493-4005-1-ND	4.25	3.78	500	856.00	F180G476MCC
6.3	22	±20%	C	13.9	5	70.0	493-4006-1-ND	4.25	3.78	500	856.00	F180J226MCC
	33	±20%	C	20.8	5	60.0	493-4007-1-ND	4.25	3.78	500	856.00	F180J336MCC

† For Tape and Reel part number, change 1-ND to 2-ND.

Solid Tantalum Electrolytic Chip Capacitors (SMT)

Digi-Reel®
RoHS COMPLIANT

Features:

F93 – Standard Series • General purpose rectangular resin molded chip • Low ESR/Impedance, excellent high frequency characteristics • Excellent humidity resistance

F91 – Low ESR Series • Rectangular resin molded chip • Low ESR

F92 – Compact Series • Low profile, rectangular resin molded chip • Excellent high frequency characteristics • Excellent humidity resistance

F97 – High Reliability Series • Rectangular resin molded chip • Soldering heat resistance • Superior humidity and environment resistance • High reliability

Specification:

• Operating Temperature Range: -55°C ~ 125°C • Capacitance Tolerance: ±20%

Case Code	Dimensions in mm				
	L	W1	W2	H	S
A (F93 / F97)	3.2 ±0.2	1.6 ±0.2	1.2 ±0.1	1.6 ±0.1	0.8 ±0.2
A (F92)	3.2 ±0.2	1.6 ±0.2	1.2 ±0.1	1.1 ±0.1	0.8 ±0.2
B	3.5 ±0.2	2.8 ±0.2	2.2 ±0.1	1.9 ±0.2	0.8 ±0.2
C	6.0 ±0.2	3.2 ±0.2	2.2 ±0.1	2.5 ±0.2	1.3 ±0.2
N	7.3 ±0.2	4.3 ±0.2	2.4 ±0.1	2.8 ±0.2	1.3 ±0.2
P	2.0 ±0.2	1.25 ±0.1	0.9 ±0.1	1.1 ±0.1	0.5 ±0.2

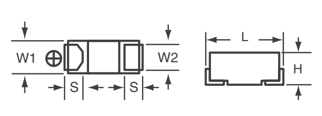

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Qty.	Tape and Reel† Pricing	Nichicon Part No.
F93 – Standard Series									
6.3 VDC Rated Voltage									
3.3	A	4.5	493-2346-1-ND	.44	3.49	21.00	2,000	75.60/M	F930J335MAA
4.7	A	4.0	493-2347-1-ND	.44	3.49	21.00	2,000	75.60/M	F930J475MAA
6.8	A	3.5	493-2349-1-ND	.44	3.49	21.00	2,000	75.60/M	F930J685MAA
10	A	3.0	493-2340-1-ND	.44	3.49	21.00	2,000	75.60/M	F930J106MAA
15	A	2.9	493-2341-1-ND	.55	4.32	26.00	2,000	94.00/M	F930J156MAA
15	B	2.0	493-2342-1-ND	.65	5.15	31.00	2,000	112.00/M	F930J156MBA
22	A	2.5	493-2343-1-ND	.55	4.32	26.00	2,000	94.00/M	F930J226MAA
22	B	1.9	493-2344-1-ND	.65	5.15	31.00	2,000	112.00/M	F930J226MBA
47	B	1.0	493-2348-1-ND	.67	5.63	35.28	2,000	134.00/M	F930J476MBA
68	C	0.8	493-2350-1-ND	1.08	9.12	61.92	500	163.40	F930J686MCC
220	N	0.5	493-2345-1-ND	1.87	15.33	123.42	500	318.00	F930J227MNC
10 VDC Rated Voltage									
2.2	A	5.0	493-2356-1-ND	.44	3.49	21.00	2,000	75.60/M	F931A225MAA
3.3	A	4.5	493-2358-1-ND	.44	3.49	21.00	2,000	75.60/M	F931A335MAA
4.7	A	4.0	493-2361-1-ND	.44	3.49	21.00	2,000	75.60/M	F931A475MAA
10	A	3.0	493-2351-1-ND	.44	3.49	21.00	2,000	75.60/M	F931A106MAA
10	B	2.1	493-2352-1-ND	.67	5.31	32.00	2,000	115.00/M	F931A106MBA
15	B	2.0	493-2354-1-ND	.65	5.15	31.00	2,000	112.00/M	F931A156MBA
22	B	1.9	493-2357-1-ND	.65	5.15	31.00	2,000	112.00/M	F931A226MBA
33	B	1.4	493-2359-1-ND	.91	7.64	47.88	2,000	182.00/M	F931A336MBA
33	C	1.1	493-2360-1-ND	.93	7.84	53.28	500	140.60	F931A336MCC
47	C	0.9	493-2362-1-ND	1.06	8.84	64.86	500	169.20	F931A476MCC
68	N	0.6	493-2363-1-ND	1.27	10.41	83.82	500	216.00	F931A686MNC
100	N	0.6	493-2353-1-ND	1.59	13.04	104.94	500	270.50	F931A107MNC
150	N	0.6	493-2355-1-ND	1.90	15.54	125.07	500	322.00	F931A157MNC
16 VDC Rated Voltage									
1	A	7.5	493-2364-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C105MAA
1.5	A	6.0	493-2366-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C155MAA
2.2	A	5.0	493-2368-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C225MAA
3.3	A	4.5	493-2370-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C335MAA
4.7	A	4.0	493-2372-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C475MAA
6.8	A	3.5	493-2374-1-ND	.44	3.49	21.00	2,000	75.60/M	F931C685MAA
6.8	B	2.5	493-2375-1-ND	.62	5.23	32.76	2,000	125.00/M	F931C685MBA
10	B	2.0	493-2365-1-ND	.62	5.23	32.76	2,000	125.00/M	F931C106MBA
15	B	2.0	493-2367-1-ND	.67	5.63	35.28	2,000	134.00/M	F931C156MBA
22	C	1.1	493-2369-1-ND	.83	7.00	47.52	500	125.40	F931C226MCC
33	C	1.1	493-2371-1-ND	.93	7.84	53.28	500	140.60	F931C336MCC
47	N	0.7	493-2373-1-ND	1.15	9.64	70.73	500	184.50	F931C476MNC
68	N	0.6	493-2376-1-ND	1.59	13.04	104.94	500	270.50	F931C686MNC
20 VDC Rated Voltage									
1.5	A	6.3	493-2378-1-ND	.44	3.49	21.00	2,000	75.60/M	F931D155MAA
2.2	A	5.0	493-2380-1-ND	.44	3.49	21.00	2,000	75.60/M	F931D225MAA
3.3	A	4.5	493-2382-1-ND	.62	5.23	32.76	2,000	125.00/M	F931D335MAA
4.7	A	4.0	493-2384-1-ND	.62	5.23	32.76	2,000	125.00/M	F931D475MAA
4.7	B	2.8	493-2385-1-ND	.67	5.63	35.28	2,000	134.00/M	F931D475MBA
6.8	B	2.5	493-2386-1-ND	.91	7.64	47.88	2,000	182.00/M	F931D685MBA
10	B	2.1	493-2377-1-ND	.91	7.64	47.88	2,000	182.00/M	F931D106MBA
15	C	1.2	493-2379-1-ND	.96	8.16	55.44	500	146.30	F931D156MCC
22	C	1.1	493-2381-1-ND	1.06	8.84	64.86	500	169.20	F931D226MCC
33	N	0.7	493-2383-1-ND	1.27	10.41	83.82	500	216.00	F931D336MNC
25 VDC Rated Voltage									
.68	A	7.6	493-2394-1-ND	.45	3.57	21.50	2,000	77.40/M	F931E684MAA
1	A	7.5	493-2387-1-ND	.45	3.57	21.50	2,000	77.40/M	F931E105MAA
1.5	A	6.7	493-2389-1-ND	.45	3.57	21.50	2,000	77.40/M	F931E155MAA
2.2	A	6.3	493-2390-1-ND	.70	5.56	33.50	2,000	121.00/M	F931E225MAA
3.3	B	3.1	493-2392-1-ND	.67	5.63	35.28	2,000	134.00/M	F931E335MBA
4.7	B	2.8	493-2393-1-ND	.67	5.63	35.28	2,000	134.00/M	F931E475MBA
6.8	C	1.8	493-2395-1-ND	.93	7.84	53.28	500	140.60	F931E685MCC
10	C	1.5	493-2388-1-ND	.93	7.84	53.28	500	140.60	F931E106MCC
22	N	0.7	493-2391-1-ND	1.41	11.52	92.73	500	239.00	F931E226MNC
35 VDC Rated Voltage									
.47	A	10.0	493-2402-1-ND	.65	5.15	31.00	2,000	112.00/M	F931V474MAA
.68	A	7.6	493-2404-1-ND	.65	5.15	31.00	2,000	112.00/M	F931V684MAA
1	A	7.5	493-2396-1-ND	.70	5.56	33.50	2,000	121.00/M	F931V105MAA
1.5	A	7.5	493-2398-1-ND	.70	5.56	33.50	2,000	121.00/M	F931V155MAA
2.2	B	3.8	493-2400-1-ND	.67	5.63	35.28	2,000	134.00/M	F931V225MBA
3.3	B	3.5	493-2401-1-ND	1.01	8.44	52.92	2,000	202.00/M	F931V335MBA
4.7	C	1.8	493-2403-1-ND	.93	7.84	53.28	500	140.60	F931V475MCC
6.8	C	1.8	493-2405-1-ND	.93	7.84	53.28	500	140.60	F931V685MCC
10	C	1.6	493-2397-1-ND	1.05	8.74	64.17	500	167.40	F931V106MCC
15	N	0.7	493-2399-1-ND	1.27	10.41	83.82	500	216.00	F931V156MNC
F91 – Low ESR Series									
6.3 VDC Rated Voltage									
100	C	.250	493-2309-1-ND	2.40	19.68	158.40	500	408.00	F910J107MCC
150	N	.100	493-2310-1-ND	2.26	18.77	165.60	500	441.50	F910J157MNC
220	N	.100	493-2311-1-ND	2.60	21.59	190.50	500	508.00	F910J227MNC
10 VDC Rated Voltage									
47	C	.400	493-2314-1-ND	1.86	15.21	122.43	500	315.50	F911A476MCC
100	N	.100	493-2312-1-ND	2.26	18.77	165.60	500	441.50	F911A107MNC
150	N	.100	493-2313-1-ND	2.60	21.59	190.50	500	508.00	F911A157MNC
16 VDC Rated Voltage									
33	C	.400	493-2315-1-ND	1.86	15.21	122.43	500	315.50	F911C336MCC
47	N	.150	493-2316-1-ND	2.49	20.38	164.01	500	422.50	F911C476MNC
20 VDC Rated Voltage									
15	C	.450	493-2317-1-ND	1.86	15.21	122.43	500	315.50	F911D156MCC
33	N	.200	493-2318-1-ND	2.26	18.77	165.60	500	441.50	F911D336MNC

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

nichicon Solid Tantalum Electrolytic Chip Capacitors (SMT) *(Cont.)*

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Nichicon Part No.
				1	10	100	Qty.	Pricing	
25 VDC Rated Voltage									
10	C	.450	493-2319-1-ND	2.30	18.82	151.47	500	390.00	F911E106MCC
22	N	.200	493-2320-1-ND	2.26	18.77	165.60	500	441.50	F911E226MNC
33	N	.200	493-2321-1-ND	2.30	18.86	151.80	500	391.00	F911E336MNC
35 VDC Rated Voltage									
6.8	C	.600	493-2325-1-ND	1.86	15.21	122.43	500	315.50	F911V685MCC
10	N	.300	493-2322-1-ND	2.26	18.77	165.60	500	441.50	F911V106MNC
15	N	.300	493-2323-1-ND	2.26	18.77	165.60	500	441.50	F911V156MNC
22	N	.300	493-2324-1-ND	2.26	18.77	165.60	500	441.50	F911V226MNC
F92 – Compact Series									
4 VDC Rated Voltage									
2.2	P	12.0	493-2326-1-ND	.45	3.57	21.50	3,000	77.00/M	F920G225MPA
22	P	5.0	493-2327-1-ND	.58	4.82	30.24	3,000	115.00/M	F920G226MPA
6.3 VDC Rated Voltage									
1.5	P	12.0	493-2329-1-ND	.45	3.57	21.50	3,000	77.00/M	F920J155MPA
10	P	6.0	493-2328-1-ND	.42	3.32	20.00	3,000	72.00/M	F920J106MPA
10 VDC Rated Voltage									
1	P	12.0	493-2330-1-ND	.45	3.57	21.50	3,000	77.00/M	F921A105MPA
2.2	P	12.0	493-2331-1-ND	.45	3.57	21.50	3,000	77.00/M	F921A225MPA
3.3	P	12.0	493-2332-1-ND	.45	3.57	21.50	3,000	77.00/M	F921A335MPA
4.7	P	6.0	493-2333-1-ND	.42	3.32	20.00	3,000	72.00/M	F921A475MPA
16 VDC Rated Voltage									
.68	P	12.0	493-2335-1-ND	.42	3.32	20.00	3,000	72.00/M	F921C684MPA
1	P	12.0	493-2334-1-ND	.45	3.57	21.50	3,000	77.00/M	F921C105MPA
35 VDC Rated Voltage									
0.1	A	10.0	493-2336-1-ND	.62	4.92	29.64	2,500	106.71/M	F921V104MAA
.15	A	10.0	493-2337-1-ND	.62	4.90	29.50	2,500	106.00/M	F921V154MAA
.22	A	10.0	493-2338-1-ND	.62	4.90	29.50	2,500	106.00/M	F921V224MAA
.33	A	10.0	493-2339-1-ND	.56	4.69	29.40	2,500	112.00/M	F921V334MAA
F97 – High Reliability Series									
6.3 VDC Rated Voltage									
3.3	A	4.5	493-2407-1-ND	.97	8.22	55.80	2,000	233.00/M	F970J335MAA
6.8	B	2.5	493-2409-1-ND	1.00	8.48	57.60	2,000	240.00/M	F970J685MBA
22	C	1.1	493-2406-1-ND	1.26	10.33	83.16	500	214.00	F970J226MCC
47	N	0.7	493-2408-1-ND	1.28	10.46	84.15	500	217.00	F970J476MNC
68	N	0.6	493-2410-1-ND	1.29	10.81	79.35	500	207.00	F970J686MNC

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Nichicon Part No.
				1	10	100	Qty.	Pricing	
10 VDC Rated Voltage									
2.2	A	5.0	493-2412-1-ND	.97	8.22	55.80	2,000	233.00/M	F971A225MAA
4.7	B	2.8	493-2414-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971A475MBA
15	C	1.2	493-2411-1-ND	1.45	11.89	95.70	500	246.50	F971A156MCC
33	N	0.7	493-2413-1-ND	1.76	14.43	116.16	500	299.00	F971A336MNC
47	N	0.7	493-2415-1-ND	1.76	14.43	116.16	500	299.00	F971A476MNC
16 VDC Rated Voltage									
1	A	7.5	493-2416-1-ND	.97	8.22	55.80	2,000	233.00/M	F971C105MAA
1.5	A	6.3	493-2418-1-ND	.97	8.22	55.80	2,000	233.00/M	F971C155MAA
3.3	B	3.1	493-2420-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971C335MBA
4.7	B	2.8	493-2422-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971C475MBA
10	C	1.5	493-2417-1-ND	1.45	11.89	95.70	500	246.50	F971C106MCC
22	N	0.7	493-2419-1-ND	1.76	14.43	116.16	500	299.00	F971C226MNC
33	N	0.7	493-2421-1-ND	1.76	14.43	116.16	500	299.00	F971C336MNC
20 VDC Rated Voltage									
2.2	B	3.8	493-2424-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971D225MBA
6.8	C	1.8	493-2426-1-ND	1.45	11.89	95.70	500	246.50	F971D685MCC
15	N	0.7	493-2423-1-ND	1.76	14.43	116.16	500	299.00	F971D156MNC
25 VDC Rated Voltage									
.47	A	10.0	493-2429-1-ND	.97	8.22	55.80	2,000	233.00/M	F971E474MAA
1.5	B	4.0	493-2428-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971E155MBA
4.7	C	1.8	493-2430-1-ND	1.45	11.89	95.70	500	246.50	F971E475MCC
10	N	1.0	493-2427-1-ND	1.76	14.43	116.16	500	299.00	F971E106MNC
35 VDC Rated Voltage									
.1	A	15.0	493-2431-1-ND	.90	7.54	47.28	—	—	F971V104MAA
.15	A	15.0	493-2433-1-ND	.90	7.57	47.46	2,000	181.00/M	F971V154MAA
.22	A	12.0	493-2435-1-ND	.90	7.57	47.46	2,000	181.00/M	F971V224MAA
.33	A	12.0	493-2437-1-ND	.97	8.22	55.80	2,500	233.00/M	F971V334MAA
.47	B	5.0	493-2439-1-ND	.93	7.77	48.72	2,000	186.00/M	F971V474MBA
.68	B	5.0	493-2441-1-ND	.87	7.37	50.04	2,000	209.00/M	F971V684MBA
1	B	4.0	493-2432-1-ND	1.00	8.48	57.60	2,000	240.00/M	F971V105MBA
2.2	C	2.0	493-2436-1-ND	1.22	10.15	74.52	500	194.50	F971V225MCC
3.3	C	2.0	493-2438-1-ND	1.45	11.89	95.70	500	246.50	F971V335MCC
4.7	N	1.0	493-2440-1-ND	1.39	11.64	85.41	500	222.80	F971V475MNC
6.8	N	1.0	493-2442-1-ND	1.76	14.43	116.16	500	299.00	F971V685MNC

† For Tape and Reel part number, change 1-ND to 2-ND.

Solid Tantalum Electrolytic Chip Capacitors (SMT) — Frameless™

Features:

F72 Series: • Low Profile • High Capacitance • Low ESR/Impedance, excellent high frequency characteristics

F75 Series: • High Capacitance • Low ESR/Impedance, excellent high frequency characteristics

F95 Series: • Low profile, small rectangular conformal coated chip • Low ESR/Impedance, excellent high frequency characteristics • Soldering heat resistance

F98 Series: • Small and low profile resin molded chip • High density mounting • High capacitance

Specification:

• Operating Temperature Range: -55°C ~ 125°C • Capacitance Tolerance: ±20%

Applications for F95 and F98 Series:

• Mobile phones • Mobile audio players • USB drives • Flash memory cards • PCMCIA/PC cards • Medical • Modems • MP3 players

F72, F75 and F95 Series

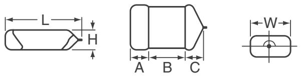

F98 Series

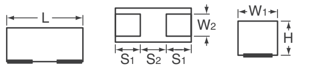

Case Code	Dimensions in mm					
	L	W	H	A	B	C
F72 Series						
R	7.2 ±0.3	6.0 ±0.3	1.2 ±0.3	1.3 ±0.4	3.8 ±0.6	—
F75 Series						
C	7.1 ±0.3	3.2 ±0.3	2.5 ±0.3	1.3 ±0.3	3.6 ±0.6	—
D	7.3 ±0.3	4.3 ±0.3	2.8 ±0.3	1.3 ±0.4	3.9 ±0.6	—
R	7.2 ±0.3	6.0 ±0.3	3.5 ±0.3	1.3 ±0.4	3.8 ±0.6	—
F95 Series						
P	2.2 ±0.3	1.25 ±0.3	1.0 ±0.2	0.6 ±0.3	0.8 ±0.3	0.8 ±0.3
Q	3.2 ±0.2	1.6 ±0.2	0.8 ±0.2	0.8 ±0.2	1.2 ±0.2	0.8 ±0.2
S	3.2 ±0.3	1.6 ±0.3	1.0 ±0.2	0.8 ±0.3	1.2 ±0.3	0.8 ±0.3
A	3.2 ±0.3	1.7 ±0.3	1.4 ±0.2	0.8 ±0.3	1.2 ±0.3	0.8 ±0.3
T	3.5 ±0.2	2.7 ±0.2	1.0 ±0.2	0.8 ±0.2	1.2 ±0.2	1.1 ±0.2
B	3.3 ±0.3	2.7 ±0.3	1.8 ±0.2	0.8 ±0.3	1.2 ±0.3	1.1 ±0.3
R	2.2 ±0.3	1.25 ±0.3	0.65 Max.	0.6 ±0.3	0.8 ±0.3	0.8 ±0.3

Case Code	Dimensions in mm					
	L	W1	W2	H	S1	S2
F98 Series						
U	1.10 ±0.05	0.60 ±0.05	0.35 ±0.05	0.55 ±0.05	0.3 ±0.05	0.5 ±0.05
M	1.6 ±0.1	0.85 ±0.1	0.65 ±0.1	0.8 ±0.1	0.5 ±0.1	0.6 ±0.1
S	2.0 ±0.1	1.25 ±0.1	0.9 ±0.1	0.8 ±0.1	0.5 ±0.1	1.0 ±0.1

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Nichicon Part No.
				1	10	100	Qty.	Pricing	
NEW! F72 Series NEW!									
4 VDC Rated Voltage									
100	R	0.70	493-3336-1-ND	5.36	50.38	446.88	1,000	2113.00	F720G107MRC
150	R	0.70	493-3337-1-ND	5.36	50.38	446.88	1,000	2113.00	F720G157MRC
220	R	0.70	493-3338-1-ND	5.36	50.38	446.88	1,000	2113.00	F720G227MRC
330	R	0.70	493-3339-1-ND	5.36	50.38	446.88	1,000	2113.00	F720G337MRC
6.3 VDC Rated Voltage									
68	R	0.75	493-3340-1-ND	5.36	50.38	446.88	1,000	2113.00	F720J686MRC
100	R	0.70	493-3341-1-ND	5.90	55.40	491.43	1,000	2323.00	F720J107MRC
150	R	0.70	493-3342-1-ND	5.90	55.40	491.43	1,000	2323.00	F720J157MRC
220	R	0.70	493-3343-1-ND	5.90	55.40	491.43	1,000	2323.00	F720J227MRC
330	R	0.70	493-3344-1-ND	5.90	55.40	491.43	1,000	2323.00	F720J337MRC
10 VDC Rated Voltage									
47	R	0.80	493-3345-1-ND	5.36	50.38	446.88	1,000	2113.00	F721A476MRC
68	R	0.75	493-3346-1-ND	5.90	55.40	491.43	1,000	2323.00	F721A686MRC
100	R	0.70	493-3347-1-ND	5.90	55.40	491.43	1,000	2323.00	F721A107MRC
150	R	0.70	493-3348-1-ND	5.90	55.40	491.43	1,000	2323.00	F721A157MRC
220	R	0.70	493-3349-1-ND	5.90	55.40	491.43	1,000	2323.00	F721A227MRC

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Nichicon Part No.
				1	10	100	Qty.	Pricing	
16 VDC Rated Voltage									
33	R	0.90	493-3350-1-ND	5.36	50.38	446.88	1,000	2113.00	F721C336MRC
47	R	0.80	493-3351-1-ND	5.36	50.38	446.88	1,000	2113.00	F721C476MRC
68	R	0.75	493-3352-1-ND	5.90	55.40	491.43	1,000	2323.00	F721C686MRC
NEW! F75 Series NEW!									
4 VDC Rated Voltage									
330	C	0.15	493-3353-1-ND	5.90	55.40	491.43	500	1251.00	F750G337MCC
470	C	0.12	493-3354-1-ND	5.90	55.40	491.43	500	1251.00	F750G477MCC
470	D	0.12	493-3355-1-ND	5.90	55.40	491.43	500	1251.00	F750G477MDC
680	D	0.12	493-3356-1-ND	5.90	55.40	491.43	500	1251.00	F750G687MDC
1000	D	0.12	493-3357-1-ND	5.90	55.40	491.43	500	1251.00	F750G108MDC
1000	R	0.12	493-3358-1-ND	6.43	60.42	535.98	500	1364.50	F750G108MRC
1500	R	0.12	493-3359-1-ND	6.43	60.42	535.98	500	1364.50	F750G158MRC
2200	R	0.07	493-3360-1-ND	6.43	60.42	535.98	500	1364.50	F750G228MRC
6.3 VDC Rated Voltage									
220	C	0.20	493-3361-1-ND	5.90	55.40	491.43	500	1251.00	F750J227MCC
330	C	0.15	493-3362-1-ND	5.90	55.40	491.43	500	1251.00	F750J337MCC

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Cap. (µF)	Case Code	E.S.R. (Ω@ 100kHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Nichicon Part No.
				1	10	100	Qty.	Pricing	
330	D	0.15	493-3363-1-ND	5.90	55.40	491.43	500	1251.00	F750J337MDC
470	D	0.12	493-3364-1-ND	5.90	55.40	491.43	500	1251.00	F750J477MDC
680	D	0.12	493-3365-1-ND	5.90	55.40	491.43	500	1251.00	F750J687MDC
680	R	0.12	493-3366-1-ND	6.19	58.16	515.90	500	1313.00	F750J687MRC
1000	R	0.12	493-3367-1-ND	6.43	60.42	535.98	500	1364.50	F750J108MRC
10 VDC Rated Voltage									
150	C	0.22	493-3368-1-ND	5.90	55.40	491.43	500	1251.00	F751A157MCC
220	C	0.20	493-3369-1-ND	5.90	55.40	491.43	500	1251.00	F751A227MCC
220	D	0.20	493-3370-1-ND	5.90	55.40	491.43	500	1251.00	F751A227MDC
330	D	0.15	493-3371-1-ND	5.90	55.40	491.43	500	1251.00	F751A337MDC
470	R	0.12	493-3372-1-ND	6.43	60.42	535.98	500	1364.50	F751A477MRC
16 VDC Rated Voltage									
68	C	0.22	493-3373-1-ND	5.36	50.38	446.88	500	1137.50	F751C686MCC
100	C	0.22	493-3374-1-ND	5.90	55.40	491.43	500	1251.00	F751C107MCC
150	D	0.22	493-3375-1-ND	5.90	55.40	491.43	500	1251.00	F751C157MDC
220	R	0.20	493-3376-1-ND	6.43	60.42	535.98	500	1364.50	F751C227MRC
F95 Series									
4 VDC Rated Voltage									
15	P	1.8	493-2887-1-ND	.96	8.16	55.44	3,000	231.00/M	F950G156MPAAQ2
22	P	1.1	493-2888-1-ND	1.14	9.49	69.69	3,000	293.00/M	F950G226MPAAQ2
33	P	1.1	493-2889-1-ND	1.16	9.68	71.07	3,000	299.00/M	F950G336MPAAQ2
47	P	1.1	493-2890-1-ND	1.25	10.43	76.59	3,000	322.00/M	F950G476MPAAQ2
47	Q	1.1	493-2891-1-ND	1.32	11.05	81.08	2,500	341.00/M	F950G476MQAAQ2
47	A	0.6	493-2892-1-ND	1.33	11.09	81.42	2,500	342.00/M	F950G476MAAAQ2
68	S	0.8	493-2893-1-ND	1.39	11.36	91.41	2,500	388.00/M	F950G686MSAAQ2
68	A	0.5	493-2894-1-ND	1.38	11.56	84.87	2,500	357.00/M	F950G686MAAAQ2
100	S	0.8	493-2895-1-ND	1.58	12.96	104.28	2,500	442.00/M	F950G107MSAAQ2
100	A	0.5	493-2896-1-ND	1.58	12.96	104.28	2,500	442.00/M	F950G107MAAAQ2
150	B	0.4	493-2897-1-ND	2.47	20.21	162.69	2,000	690.00/M	F950G157MBAAQ2
220	S	0.8	493-2898-1-ND	1.92	15.70	126.39	2,500	536.00/M	F950G227MSAAQ2
220	T	0.6	493-2899-1-ND	2.16	17.67	142.23	2,500	603.00/M	F950G227MTAAQ2
220	B	0.4	493-2900-1-ND	2.93	24.28	214.20	2,000	964.00/M	F950G227MBAAQ2
6.3 VDC Rated Voltage									
10	P	2.0	493-2901-1-ND	.96	8.16	55.44	3,000	231.00/M	F950J106MPAAQ2
15	P	1.8	493-2902-1-ND	1.14	9.49	69.69	3,000	293.00/M	F950J156MPAAQ2
22	P	1.1	493-2903-1-ND	1.16	9.68	71.07	3,000	299.00/M	F950J226MPAAQ2
22	R	2.0	493-3163-1-ND	1.25	10.43	76.59	3,000	322.00/M	F950J226MRAAQ2
33	P	1.1	493-2904-1-ND	1.16	9.68	71.07	3,000	299.00/M	F950J336MPAAQ2
33	Q	2.0	493-2905-1-ND	1.32	11.05	81.08	2,500	341.00/M	F950J336MQAAQ2
33	S	1.0	493-2906-1-ND	1.33	10.91	87.78	2,500	372.00/M	F950J336MSAAQ2
33	A	0.8	493-2907-1-ND	1.19	9.92	72.80	2,500	306.00/M	F950J336MAAAQ2
47	P	1.1	493-2908-1-ND	1.16	9.68	71.07	3,000	299.00/M	F950J476MPAAQ2
47	Q	1.1	493-2909-1-ND	1.32	11.05	81.08	2,500	341.00/M	F950J476MQAAQ2
47	S	0.9	493-2910-1-ND	1.39	11.36	91.41	2,500	388.00/M	F950J476MSAAQ2
47	A	0.6	493-2911-1-ND	1.28	10.67	78.32	2,500	329.00/M	F950J476MAAAQ2
68	S	0.9	493-2912-1-ND	1.58	12.96	104.28	2,500	442.00/M	F950J686MSAAQ2
68	A	0.5	493-2913-1-ND	1.38	11.32	91.08	2,500	386.00/M	F950J686MAAAQ2
100	A	0.5	493-2914-1-ND	1.58	12.96	104.28	2,500	442.00/M	F950J107MAAAQ2
100	T	0.6	493-2915-1-ND	1.47	12.01	96.69	2,500	410.00/M	F950J107MTAAQ2
100	B	0.4	493-2916-1-ND	2.22	18.20	146.52	2,000	622.00/M	F950J107MBAAQ2
150	B	0.4	493-2917-1-ND	2.93	24.28	214.20	2,000	964.00/M	F950J157MBAAQ2
220	B	0.4	493-2918-1-ND	2.93	24.28	214.20	2,000	964.00/M	F950J227MBAAQ2
10 VDC Rated Voltage									
3.3	P	5.0	493-2919-1-ND	.95	7.97	49.98	3,000	190.00/M	F951A335MPAAQ2
4.7	P	4.0	493-2920-1-ND	1.02	8.58	53.76	3,000	205.00/M	F951A475MPAAQ2
6.8	P	4.0	493-2921-1-ND	.96	8.16	55.44	3,000	231.00/M	F951A685MPAAQ2
10	P	3.0	493-2922-1-ND	1.14	9.49	69.69	3,000	293.00/M	F951A106MPAAQ2
10	R	3.0	493-3164-1-ND	1.22	10.15	74.52	3,000	313.00/M	F951A106MRAAQ2
15	P	3.0	493-2923-1-ND	1.16	9.68	71.07	3,000	299.00/M	F951A156MPAAQ2
22	P	3.0	493-2924-1-ND	1.16	9.68	71.07	3,000	299.00/M	F951A226MPAAQ2
22	Q	2.0	493-2925-1-ND	1.04	8.65	63.48	2,500	267.00/M	F951A226MQAAQ2
22	S	1.1	493-2926-1-ND	1.33	10.91	87.78	2,500	372.00/M	F951A226MSAAQ2
22	A	0.9	493-2927-1-ND	1.33	11.09	81.42	2,500	342.00/M	F951A226MAAAQ2
33	S	1.1	493-2928-1-ND	1.39	11.36	91.41	2,500	388.00/M	F951A336MSAAQ2
33	A	0.8	493-2929-1-ND	1.38	11.56	84.87	2,500	357.00/M	F951A336MAAAQ2
47	A	0.8	493-2930-1-ND	1.42	11.60	93.39	2,500	396.00/M	F951A476MAAAQ2
47	T	0.8	493-2931-1-ND	1.47	12.01	96.69	2,500	410.00/M	F951A476MTAAQ2
47	B	0.4	493-2932-1-ND	1.42	11.60	93.39	2,000	396.00/M	F951A476MBAAQ2
68	B	0.4	493-2933-1-ND	2.47	20.21	162.69	2,000	690.00/M	F951A686MBAAQ2
100	B	0.4	493-2934-1-ND	2.93	24.28	214.20	2,000	964.00/M	F951A107MBAAQ2
16 VDC Rated Voltage									
1	P	8.0	493-2935-1-ND	.82	6.83	42.84	3,000	163.00/M	F951C105MPAAQ2
1.5	P	8.0	493-2936-1-ND	.82	6.83	42.84	3,000	163.00/M	F951C155MPAAQ2
2.2	P	6.0	493-2937-1-ND	.95	7.97	49.98	3,000	190.00/M	F951C225MPAAQ2
3.3	P	6.0	493-2938-1-ND	1.02	8.58	53.76	3,000	205.00/M	F951C335MPAAQ2
4.7	P	4.0	493-2939-1-ND	.96	8.16	55.44	3,000	231.00/M	F951C475MPAAQ2
4.7	R	6.0	493-3165-1-ND	1.22	10.15	74.52	3,000	313.00/M	F951C475MRAAQ2
10	P	4.0	493-2940-1-ND	1.16	9.68	71.07	3,000	299.00/M	F951C106MPAAQ2
10	Q	3.0	493-2941-1-ND	1.13	9.40	69.00	2,500	290.00/M	F951C106MQAAQ2
10	S	2.0	493-2942-1-ND	1.31	10.95	80.39	2,500	338.00/M	F951C106MSAAQ2
10	A	1.4	493-2943-1-ND	1.26	10.29	82.83	2,500	351.00/M	F951C106MAAAQ2
15	A	1.4	493-2944-1-ND	1.33	10.91	87.78	2,500	372.00/M	F951C156MAAAQ2
22	Q	3.0	493-2945-1-ND	1.22	10.15	74.52	2,500	313.00/M	F951C226MQAAQ2
22	A	1.4	493-2946-1-ND	1.48	12.10	97.35	2,500	413.00/M	F951C226MAAAQ2
22	T	1.4	493-2947-1-ND	1.43	11.73	94.38	2,500	400.00/M	F951C226MTAAQ2
22	B	0.5	493-2948-1-ND	1.38	11.56	84.87	2,000	357.00/M	F951C226MBAAQ2
33	B	0.5	493-2949-1-ND	1.42	11.60	93.39	2,000	396.00/M	F951C336MBAAQ2
47	B	0.6	493-2950-1-ND	2.47	20.21	162.69	2,000	690.00/M	F951C476MBAAQ2
20 VDC Rated Voltage									
2.2	P	6.0	493-2951-1-ND	.89	7.58	51.48	3,000	215.00/M	F951D225MPAAQ2
2.2	S	5.0	493-2952-1-ND	.92	7.71	48.30	2,500	184.00/M	F951D225MSAAQ2
3.3	A	2.0	493-2953-1-ND	.96	8.16	55.44	2,500	231.00/M	F951D335MAAAQ2
4.7	S	4.0	493-2954-1-ND	1.31	10.95	80.39	2,500	338.00/M	F951D475MSAAQ2
4.7	A	1.5	493-2955-1-ND	1.14	9.49	69.69	2,500	293.00/M	F951D475MAAAQ2
6.8	A	1.5	493-2956-1-ND	1.16	9.68	71.07	2,500	299.00/M	F951D685MAAAQ2
10	A	1.5	493-2957-1-ND	1.41	11.52	92.73	2,500	393.00/M	F951D106MAAAQ2
10	B	0.8	493-2958-1-ND	1.33	11.09	81.42	2,000	342.00/M	F951D106MBAAQ2
22	B	0.8	493-2959-1-ND	1.38	11.56	84.87	2,000	357.00/M	F951D226MBAAQ2
25 VDC Rated Voltage									
1	P	8.0	493-2960-1-ND	.83	7.00	47.52	3,000	198.00/M	F951E105MPAAQ2
1	R	10.0	493-3166-1-ND	1.22	10.15	74.52	3,000	313.00/M	F951E105MRAAQ2
1	S	8.0	493-2961-1-ND	.86	7.17	44.94	2,500	171.00/M	F951E105MSAAQ2
1.5	S	7.0	493-2962-1-ND	.92	7.71	48.30	2,500	184.00/M	F951E155MSAAQ2
2.2	S	7.0	493-2963-1-ND	1.02	8.51	62.45	2,500	262.00/M	F951E225MSAAQ2
2.2	A	3.2	493-2964-1-ND	.96	8.16	55.44	2,500	231.00/M	F951E225MAAAQ2
3.3	A	2.8	493-2965-1-ND	1.14	9.49	69.69	2,500	293.00/M	F951E335MAAAQ2
4.7	S	4.0	493-2966-1-ND	1.31	10.95	80.39	2,500	338.00/M	F951E475MSAAQ2
4.7	A	2.0	493-2967-1-ND	1.16	9.68	71.07	2,500	299.00/M	F951E475MAAAQ2
10	B	0.9	493-2968-1-ND	1.38	11.56	84.87	2,000	357.00/M	F951E106MBAAQ2
35 VDC Rated Voltage									
1	S	8.0	493-2969-1-ND	.92	7.71	48.30	2,500	184.00/M	F951V105MSAAQ2
1	A	4.4	493-2970-1-ND	1.02	8.58	53.76	2,500	205.00/M	F951V105MAAAQ2
1.5	A	4.4	493-2971-1-ND	.96	8.16	55.44	2,500	231.00/M	F951V155MAAAQ2
2.2	A	4.4	493-2972-1-ND	1.14	9.49	69.69	2,500	293.00/M	F951V225MAAAQ2
3.3	B	1.6	493-2973-1-ND	1.16	9.68	71.07	2,000	299.00/M	F951V335MBAAQ2
4.7	B	1.6	493-2974-1-ND	1.65	13.49	108.57	2,000	461.00/M	F951V475MBAAQ2
F98 Series									
2.5 VDC Rated Voltage									
47	M	4.0	493-2870-1-ND	1.02	8.64	58.68	4,000	228.00/M	F980E476MMA
4 VDC Rated Voltage									
4.7	U	20.0	493-3876-1-ND ***NEW!***	2.21	18.12	145.81	10,000	430.00/M	F980G475MUA
22	M	7.5	493-2871-1-ND	.91	7.74	52.56	4,000	204.00/M	F980G226MMA
33	M	4.0	493-2872-1-ND	1.02	8.64	58.68	4,000	228.00/M	F980G336MMA
47	M	8.0	493-3877-1-ND ***NEW!***	1.02	8.64	58.68	4,000	228.00/M	F980G476MMA
68	S	4.0	493-2873-1-ND	1.36	11.11	89.43	4,000	366.00/M	F980G686MSA
100	S	4.0	493-3883-1-ND ***NEW!***	1.64	13.45	108.24	4,000	443.00/M	F980G107MSA
6.3 VDC Rated Voltage									
4.7	M	7.5	493-2874-1-ND	.91	7.69	52.20	4,000	203.00/M	F980J475MMA
10	U	30.0	493-3878-1-ND ***NEW!***	2.22	18.20	146.52	10,000	433.00/M	F980J106MUA
10	M	6.0	493-2875-1-ND	.91	7.69	52.20	4,000	203.00/M	F980J106MMA
22	M	6.0	493-2876-1-ND	1.02	8.64	58.68	4,000	228.00/M	F980J226MMA
33	M	8.0	493-3879-1-ND ***NEW!***	.88	7.47	50.76	4,000	197.00/M	F980J336MMA
47	S	6.0	493-2877-1-ND	1.36	11.11	89.43	4,000	366.00/M	F980J476MSA
10 VDC Rated Voltage									
2.2	U	15.0	493-3880-1-ND ***NEW!***	2.21	18.12	145.81	10,000	430.00/M	F981A225MUA
2.2	M	7.5	493-2878-1-ND	.91	7.69	52.20	4,000	203.00/M	F981A225MMA
4.7	M	6.0	493-2879-1-ND	.91	7.69	52.20	4,000	203.00/M	F981A475MMA
10	M	7.5	493-2880-1-ND	1.02	8.64	58.68	4,000	228.00/M	F981A106MMA
22	S	4.0	493-2881-1-ND	1.36	11.11	89.43	4,000	366.00/M	F981A226MSA
33	S	6.0	493-2882-1-ND	1.36	11.11	89.43	4,000	366.00/M	F981A336MSA
16 VDC Rated Voltage									
1	M	10.0	493-2883-1-ND	.91	7.69	52.20	4,000	203.00/M	F981C105MMA
2.2	M	10.0	493-2884-1-ND	.91	7.69	52.20	4,000	203.00/M	F981C225MMA
4.7	M	12.0	493-2885-1-ND	.91	7.69	52.20	4,000	203.00/M	F981C475MMA
10	S	4.0	493-2886-1-ND	1.36	11.11	89.43	4,000	366.00/M	F981C106MSA
NEW!* 20 VDC Rated Voltage *NEW!									
1	M	10.0	493-3881-1-ND	.91	7.69	52.20	4,000	203.00/M	F981D105MMA
NEW!* 25 VDC Rated Voltage *NEW!									
1	M	10.0	493-3882-1-ND	.88	7.47	50.76	4,000	197.00/M	F981E105MMA

† For Tape and Reel part number, change 1-ND to 2-ND.

Panasonic®

EF Series

Resin Dipped Solid Tantalum Capacitors

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C (6.3V, -55°C ~ 85°C)
- **Rated Working Volt. Range:** 6.3 ~ 16 WV DC
- **Rated Capacitance Range:** .1 ~ 330 µF
- **Capacitance Tolerance:** As Specified
- **Leakage Current:** I = 0.008 CV or 0.05 µA whichever is greater; I in µA, C in µF, V in volts
- Leads are not less than 0.394" in length

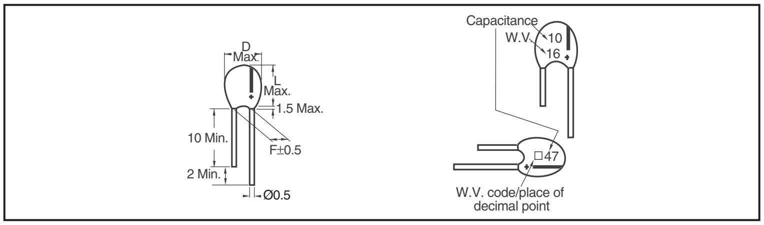

W.V. (D.C.)	Cap. (µF)	Cap. Tol. (%)	Dimensions - mm D	L	F	Digi-Key Part No.	Pricing 1	50	100	500	Panasonic Part No.
6.3	150	±20	7.5	12.5	5.0	P2020-ND	4.00	155.96	271.93	1119.69	ECS-F0JE157
10	15	±10	4.5	7.0	2.5	P2027-ND	.85	26.95	46.42	179.67	ECS-F1AE156K
	68	±20	6.0	11.0	2.5	P2031-ND	2.39	84.35	147.61	562.31	ECS-F1AE686
	100	±20	7.5	12.5	5.0	P2032-ND	4.00	155.96	271.93	1119.69	ECS-F1AE107
16	68	±20	7.5	12.5	5.0	P2043-ND	4.00	155.96	271.93	1119.69	ECS-F1CE686

TE Series

Tantalum Electrolytic Chip Capacitors

Features:

• Wide capacitance range • High performance in temperature and frequency characteristics • Excellent solderability • Excellent terminal construction against bending of P.W.B. • Low inductance structure.

Specifications:

• **Operating Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20% at 120Hz, 20°C • **DC Leakage Current:** I = 0.01CV or 0.5µA maximum whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C • **tan δ:** ≤3.3µF – 0.04 maximum • **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ±1 seconds at 260 ±5°C • **Moisture Resistance:** Capacitor shall be tested for 500 hours at 40°C and 90-95% R.H. without load.

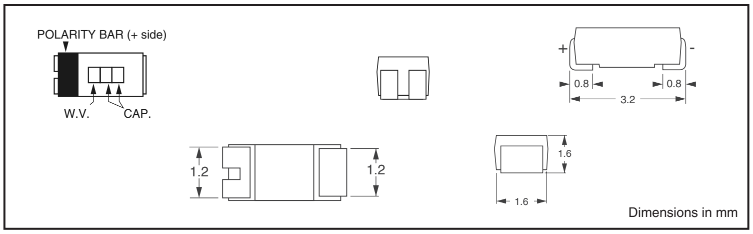

W.V. (D.C.)	Cap. (µF)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
20	0.68	PCS4684CT-ND	.44	.26	.22	PCS4684TR-ND	2,000	76.27/M	ECS-T1DY684R

TES Series

Tantalum Electrolytic Chip Capacitors

Features:

- Ultra miniature sizes
- Low profile 1.2mm maximum height

Specifications:

- **Operating Temperature Range:** -55°C ~ 125°C
- **Rated Working Voltage Range:** 2.5 ~ 20VDC
- **Nominal Capacitance Range:** 0.1 ~ 4.7 µF
- **Capacitance Tolerance:** ±20% (120Hz, 20°)
- **Leakage Current:** I ≤ 0.01CV or 0.5 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C
- **tan δ:** 0.04 maximum for ≤ 3.3µF, 0.08 maximum for 2.5W.V., 0.10 maximum for Z size

Characteristics at High and Low Temperature:

Size Code	Dimensions (mm) L ±0.2	W1 ±0.2	H max.	P	W2 ±0.1
Z	2.0	1.25	1.2	0.5 ±0.2	0.9
P	3.2	1.6	1.2	0.8 ±0.3	1.2

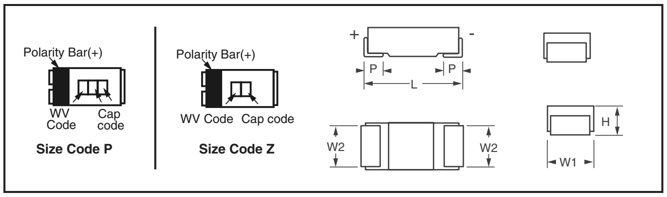

W.V. (D.C.)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	6,000	Panasonic Part No.
4	2.2	P	PCS0255BCT-ND	.91	.59	.53	—	—	—	ECS-T0GP225R
	3.3	P	PCS0335BCT-ND	.91	.59	.53	—	—	—	ECS-T0GP335R
10	1.0	Z	PCS2105CCT-ND	.52	.32	.28	PCS2105CTR-ND	104.00/M	97.00/M	ECS-T1AZ105R
	4.7	Z	P11340CT-ND	.92	.60	.54	P11340TR-ND	222.00/M	207.00/M	ECS-T1AZ475R
20	0.15	P	PCS4154BCT-ND	.91	.59	.53	PCS4154BTR-ND	219.00/M	204.00/M	ECS-T1DP154R
	0.68	P	PCS4684BCT-ND	.91	.59	.53	—	—	—	ECS-T1DP684R

TEH Series

Resin Molded Chip Tantalum Electrolytic Capacitors

Specifications:

- **Operating Temperature Range:** -55 ~ 125°C
- **Rated Working Voltage Range:** 10 ~ 35V
- **Rated Capacitance Range:** .1µF ~ 68µF
- **Capacitance Tolerance:** ±20% at 120Hz, 20°C
- **DC Leakage Current:** I = 0.01CV or 0.5µA maximum, whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C.
- **tan δ:** less than 3.3µF — 0.04 max.; 4.7 ~ 68µF — 0.06 max.
- **Stability at Low and High Temperature**

EIA Size	Size Code	Dimensions (mm) L ±0.2	W1 ±0.2	W2 ±0.1	H1 ±0.2	H2 Typ.	P ±0.3
A	Y	3.2	1.6	1.2	1.6	1.0	0.8
B	X	3.5	2.8	2.2	1.9	1.2	0.8

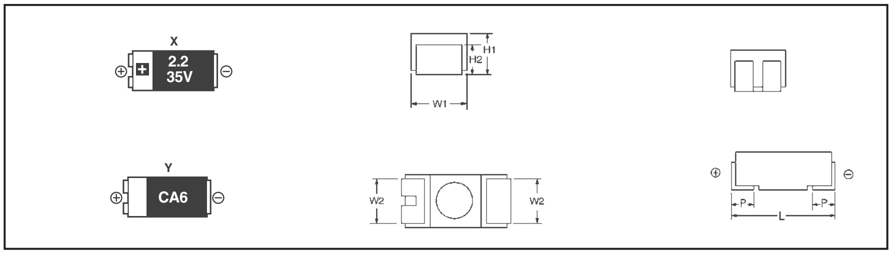

W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	6,000	Panasonic Part No.
10	4.7	B	X	PCT2475CT-ND	.60	17.21	PCT2475TR-ND	103.00/M	97.00/M	ECS-H1AX475R
20	0.68	A	Y	PCT4684CT-ND	.50	14.23	—	—	—	ECS-H1DY684R

AVX TAP Series

Dipped Radial Tantalum Capacitors

TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability.

- **Capacitance Tolerance:** 10%
- **Temperature Range:** -55°C ~ 125°C

2.5mm LS Style

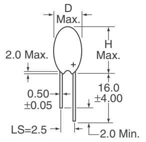

5.0mm LS Style

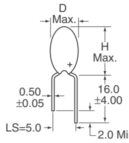

Cap. (µF)	Dimensions (mm)			DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @ 100kHz	Digi-Key Part No.	Price Each			AVX Part No.
	D	H	LS					1	10	100	
6.3 Volt @ 85°C (4 Volt @ 125°C) — RoHS Compliant											
3.3	4.5	7.0	2.5	6	0.5	13.0	478-1885-ND	.46	.40	.32	TAP335K006SCS
4.7	4.5	7.0	2.5	6	0.5	10.0	478-1902-ND	.46	.40	.32	TAP475K006SCS
6.8	4.5	7.0	2.5	6	0.5	8.0	478-1917-ND	.46	.40	.32	TAP685K006SCS
10	4.5	7.5	2.5	8	0.5	6.0	478-1837-ND	.58	.50	.39	TAP106K006SCS
15	5.0	8.5	2.5	8	0.8	5.0	478-1855-ND	.65	.56	.44	TAP156K006SCS
22	5.0	9.0	2.5	8	1.1	3.7	478-1873-ND	.65	.56	.44	TAP226K006SCS
33	5.5	9.0	2.5	8	1.7	3.0	478-1892-ND	.82	.71	.56	TAP336K006SCS
47	6.0	10.0	2.5	8	2.4	2.0	478-1909-ND	.91	.78	.62	TAP476K006SCS
47	6.0	11.5	5.0	8	2.4	2.0	478-4180-ND	.81	.69	.55	TAP476K006CCS
68	6.5	10.0	2.5	8	3.4	1.8	478-1924-ND	1.09	.93	.73	TAP686K006SCS
100	7.0	10.5	2.5	10	5.0	1.6	478-1844-ND	2.59	2.22	1.74	TAP107K006SCS
150	8.5	14.0	5.0	10	7.6	0.9	478-1862-ND	3.26	2.79	2.19	TAP157K006CCS
220	9.0	14.5	5.0	10	11.0	0.9	478-1880-ND	6.51	5.58	4.38	TAP227K006CCS
330	10.0	17.0	5.0	10	16.6	0.7	478-1898-ND	8.12	6.96	5.46	TAP337K006CCS
10 Volt @ 85°C (6.3 Volt @ 125°C)											
2.2	4.5	7.0	2.5	6	0.5	13.0	478-1867-ND◆	.46	.40	.32	TAP225K010SCS
3.3	4.5	7.0	2.5	6	0.5	10.0	478-1886-ND◆	.46	.40	.32	TAP335K010SCS
4.7	4.5	7.0	2.5	6	0.5	8.0	478-1903-ND◆	.46	.40	.32	TAP475K010SCS
6.8	4.5	7.5	2.5	6	0.5	6.0	478-1918-ND◆	.58	.50	.39	TAP685K010SCS
10	5.0	8.5	2.5	8	0.8	5.0	478-1838-ND◆	.65	.56	.44	TAP106K010SCS
15	5.0	9.0	2.5	8	1.2	3.7	478-1856-ND◆	.65	.56	.44	TAP156K010SCS
22	5.5	9.0	2.5	8	1.7	2.7	478-1874-ND◆	.81	.69	.55	TAP226K010SCS
33	6.0	10.0	2.5	8	2.6	2.1	478-1893-ND◆	.95	.81	.64	TAP336K010SCS
33	6.0	11.5	5.0	8	2.6	2.1	478-4177-ND◆†	.88	.75	.59	TAP336M010CCS
47	6.5	10.0	2.5	8	3.7	1.7	478-1910-ND◆	1.68	1.44	1.13	TAP476K010SCS
68	7.0	10.5	2.5	8	5.4	1.3	478-1925-ND	2.59	2.22	1.74	TAP686K010SCS
100	8.5	12.5	5.0	10	8.0	1.0	478-6063-ND◆ ***NEW!***	3.15	2.70	2.12	TAP107K010CCS
100	8.5	12.5	2.5	10	8.0	1.0	478-1845-ND◆	3.26	2.79	2.19	TAP107K010SCS
150	9.0	16.0	5.0	10	12.0	0.8	478-1863-ND◆	6.51	5.58	4.38	TAP157K010CCS
220	10.0	17.0	5.0	10	17.6	0.6	478-1881-ND◆	8.12	6.96	5.46	TAP227K010CCS
330	10.0	18.5	5.0	10	20.0	0.5	478-1899-ND◆	8.12	6.96	5.46	TAP337K010CCS
16 Volt @ 85°C (10 Volt @ 125°C) — RoHS Compliant											
1.5	4.5	7.0	2.5	4	0.5	10.0	478-1850-ND	.46	.40	.32	TAP155K016SCS
2.2	4.5	7.0	2.5	6	0.5	8.0	478-1868-ND	.44	.38	.30	TAP225K016SCS
3.3	4.5	7.0	2.5	6	0.5	6.0	478-1887-ND	.44	.38	.30	TAP335K016SCS
4.7	4.5	7.5	2.5	6	0.6	5.0	478-1904-ND	.55	.47	.37	TAP475K016SCS
6.8	5.0	8.5	2.5	6	0.8	4.0	478-1919-ND	.65	.56	.44	TAP685K016SCS
10	5.0	9.0	2.5	8	1.2	3.2	478-1839-ND	.67	.57	.45	TAP106K016SCS
10	5.0	10.5	5.0	8	1.2	3.2	478-4169-ND	.60	.51	.40	TAP106K016CCS
15	5.5	9.0	2.5	8	1.9	2.5	478-1857-ND	.88	.75	.59	TAP156K016SCS
15	5.5	10.5	5.0	8	1.9	2.5	478-4173-ND	.81	.69	.55	TAP156K016CCS
22	6.0	10.0	2.5	8	2.8	2.0	478-1875-ND	.88	.75	.59	TAP226K016SCS
22	6.0	11.5	5.0	8	2.8	2.0	478-4174-ND	.81	.69	.55	TAP226K016CCS
33	6.0	10.0	5.0	8	4.2	1.6	478-6064-ND ***NEW!***	1.23	1.05	.83	TAP336K016CCS
33	6.0	10.0	2.5	8	4.2	1.6	478-1894-ND	1.75	1.50	1.18	TAP336K016SCS
47	8.0	11.5	2.5	8	6.0	1.3	478-1911-ND	2.75	2.36	1.85	TAP476K016SCS
68	9.0	12.5	2.5	8	8.7	1.0	478-1926-ND	3.33	2.85	2.24	TAP686K016SCS
100	9.0	16.0	5.0	10	12.8	0.8	478-1846-ND	7.00	6.00	4.70	TAP107K016CCS
150	9.0	16.0	5.0	10	19.2	0.6	478-1864-ND	8.05	6.90	5.41	TAP157K016CCS
220	10.0	18.5	5.0	10	20.0	0.5	478-1882-ND	9.91	8.49	6.66	TAP227K016CCS
20 Volt @ 85°C (13 Volt @ 125°C)											
1.0	4.5	7.0	2.5	4	0.5	10.0	478-1833-ND◆	.46	.40	.32	TAP105K020SCS
1.5	4.5	7.0	2.5	4	0.5	9.0	478-1851-ND	.46	.40	.32	TAP155K020SCS
2.2	4.5	7.0	2.5	6	0.5	7.0	478-1869-ND◆	.46	.40	.32	TAP225K020SCS
3.3	4.5	7.5	2.5	6	0.5	5.5	478-1888-ND◆	.58	.50	.39	TAP335K020SCS
4.7	5.0	8.5	2.5	6	0.7	4.5	478-1905-ND◆	.65	.56	.44	TAP475K020SCS
6.8	5.0	9.0	2.5	6	1.0	3.6	478-1920-ND	.65	.56	.44	TAP685K020SCS
10	5.5	9.0	2.5	8	1.6	2.9	478-1840-ND◆	.88	.75	.59	TAP106K020SCS
15	6.0	10.0	2.5	8	2.4	2.3	478-1858-ND◆	.95	.81	.64	TAP156K020SCS
22	7.0	10.5	2.5	8	3.5	1.8	478-1876-ND◆	1.75	1.50	1.18	TAP226K020SCS
33	8.0	11.5	2.5	8	5.2	1.4	478-1895-ND◆	2.52	2.16	1.70	TAP336K020SCS
47	8.5	12.5	5.0	8	7.5	1.2	478-6065-ND◆ ***NEW!***	2.80	2.40	1.88	TAP476K020CCS
47	8.5	12.5	2.5	8	7.5	1.2	478-1912-ND◆	3.12	2.67	2.10	TAP476K020SCS
68	9.0	16.0	5.0	8	10.8	0.9	478-1927-ND◆	7.07	6.06	4.75	TAP686K020CCS
100	9.0	16.0	5.0	10	16.0	0.6	478-1847-ND◆	8.09	6.93	5.43	TAP107K020CCS
25 Volt @ 85°C (16 Volt @ 125°C) — RoHS Compliant											
1.0	4.5	7.0	2.5	4	0.5	10.0	478-1834-ND	.46	.40	.32	TAP105K025SCS
1.0	4.5	8.5	5.0	4	0.5	10.0	478-4167-ND	.39	.34	.27	TAP105K025CCS
1.5	4.5	7.0	2.5	4	0.5	8.0	478-1852-ND	.46	.40	.32	TAP155K025SCS
2.2	4.5	7.0	2.5	6	0.5	6.0	478-1870-ND	.46	.40	.32	TAP225K025SCS
2.2	4.5	7.5	5.0	6	0.6	5.0	478-5814-ND ***NEW!***	.53	.45	.36	TAP225K035CCS
3.3	4.5	7.5	2.5	6	0.6	5.0	478-1889-ND	.58	.50	.39	TAP335K025SCS
4.7	5.0	8.5	2.5	6	0.9	4.0	478-1906-ND	.65	.56	.44	TAP475K025SCS
6.8	5.0	9.0	2.5	6	1.3	3.1	478-1921-ND	.65	.56	.44	TAP685K025SCS
10	5.5	9.0	2.5	8	2.0	2.5	478-1841-ND	.74	.63	.50	TAP106K025SCS
10	5.5	9.0	2.5	8	2.0	2.5	478-5813-ND† ***NEW!***	.70	.60	.47	TAP106M025SCS
10	5.5	10.5	5.0	8	2.0	2.5	478-4170-ND	.81	.69	.55	TAP106K025CCS
15	6.0	10.0	2.5	8	3.0	2.0	478-1859-ND	1.98	1.70	1.33	TAP156K025SCS
22	7.0	10.5	2.5	8	4.4	1.5	478-1877-ND	2.45	2.10	1.65	TAP226K025SCS
22	7.0	12.0	5.0	8	4.4	1.5	478-4175-ND	2.28	1.95	1.53	TAP226K025CCS
33	8.0	11.5	2.5	8	6.6	1.2	478-1896-ND	3.27	2.81	2.20	TAP336K025SCS
33	8.0	13.0	5.0	8	6.6	1.2	478-4176-ND	2.84	2.43	1.91	TAP336K025CCS
47	9.0	13.0	2.5	8	9.4	1.0	478-1913-ND	5.01	4.29	3.37	TAP476K025SCS
47	9.0	14.5	5.0	8	9.4	1.0	478-4181-ND	4.38	3.75	2.94	TAP476K025CCS
68	9.0	16.0	5.0	8	13.6	0.8	478-1928-ND	8.12	6.96	5.46	TAP686K025CCS
35 Volt @ 85°C (23 Volt @ 125°C) — RoHS Compliant											
0.1	4.5	7.0	2.5	4	0.5	26.0	478-1831-ND	.46	.40	.32	TAP104K035SCS
0.15	4.5	7.0	2.5	4	0.5	21.0	478-1848-ND	.46	.40	.32	TAP154K035SCS
0.22	4.5	7.0	2.5	4	0.5	17.0	478-1865-ND	.46	.40	.32	TAP224K035SCS
0.33	4.5	7.0	2.5	4	0.5	15.0	478-1883-ND	.46	.40	.32	TAP334K035SCS
0.47	4.5	7.0	2.5	4	0.5	13.0	478-1900-ND	.46	.40	.32	TAP474K035SCS
0.47	4.5	8.5	5.0	4	0.5	13.0	478-4178-ND	.39	.34	.27	TAP474K035CCS
0.68	4.5	7.0	2.5	4	0.5	10.0	478-1915-ND	.46	.40	.32	TAP684K035SCS
1.0	4.5	7.0	2.5	4	0.5	8.0	478-1835-ND	.46	.39	.31	TAP105K035SCS
1.0	4.5	7.0	2.5	4	0.5	8.0	478-5812-ND† ***NEW!***	.35	.30	.24	TAP105M035SCS
1.0	4.5	8.5	5.0	4	0.5	8.0	478-4168-ND	.39	.34	.27	TAP105K035CCS
1.5	4.5	7.0	2.5	4	0.5	6.0	478-1853-ND	.46	.40	.32	TAP155K035SCS
2.2	4.5	7.5	2.5	6	0.6	5.0	478-1871-ND	.53	.45	.36	TAP225K035SCS
3.3	5.0	8.5	2.5	6	0.9	4.0	478-1890-ND	.65	.56	.44	TAP335K035SCS
4.7	5.5	9.0	2.5	6	1.3	3.0	478-1907-ND	.77	.66	.52	TAP475K035SCS
4.7	5.5	10.5	5.0	6	1.3	3.0	478-4179-ND	.65	.57	.44	TAP475K035CCS
6.8	6.0	10.0	2.5	6	1.9	2.5	478-1922-ND	.89	.77	.60	TAP685K035SCS
6.8	6.0	11.5	5.0	6	1.9	2.5	478-4182-ND	.77	.66	.52	TAP685K035CCS
10	6.0	10.0	2.5	8	2.8	2.0	478-1842-ND	1.49	1.28	1.00	TAP106K035SCS
10	6.0	10.0	2.5	8	2.8	2.0	478-6062-ND† ***NEW!***	1.05	.90	.71	TAP106M035SCS
10	6.0	11.5	5.0	8	2.8	2.0	478-4171-ND	1.28	1.10	.86	TAP106K035CCS
15	7.0	10.5	2.5	8	4.2	1.6	478-1860-ND	3.12	2.67	2.10	TAP156K035SCS
22	8.5	12.5	5.0	8	6.1	1.3	478-6015-ND ***NEW!***	2.96	2.54	1.99	TAP226K035CCS
22	8.5	12.5	2.5	8	6.1	1.3	478-1878-ND	2.96	2.54	1.99	TAP226K035SCS
33	9.0	14.5	5.0	8	9.2	1.0	478-1897-ND	5.43	4.65	3.65	TAP336K035CCS
47	9.0	16.0	5.0	8	10.0	0.8	478-1914-ND	8.12	6.96	5.46	TAP476K035CCS
50 Volt @ 85°C (33 Volt @ 125°C) — RoHS Compliant											
0.1	4.5	7.0	2.5	4	0.5	26.0	478-1832-ND	.52	.45	.35	TAP104K050SCS
0.15	4.5	7.0	2.5	4	0.5	21.0	478-1849-ND	.48	.42	.33	TAP154K050SCS
0.22	4.5	7.0	2.5	4	0.5	17.0	478-1866-ND	.52	.45	.35	TAP224K050SCS
0.33	4.5	7.0	2.5	4	0.5	15.0	478-1884-ND	.52	.45	.35	TAP334K050SCS
0.47	4.5	7.0	2.5	4	0.5	13.0	478-1901-ND	.52	.45	.35	TAP474K050SCS
0.68	4.5	7.5	2.5	4	0.5	10.0	478-1916-ND	.58	.50	.39	TAP684K050SCS
1.0	5.0	8.5	2.5	4	0.5	8.0	478-1836-ND	.58	.50	.39	TAP105K050SCS
1.5	5.0	9.0	2.5	4	0.6	6.0	478-1854-ND	.88	.75	.59	TAP155K050SCS
2.2	5.5	9.0	2.5	6	0.8	3.5	478-1872-ND	.93	.80	.63	TAP225K050SCS
3.3	6.0	10.0	2.5	6	1.3	3.0	478-1891-ND	1.02	.87	.69	TAP335K050SCS
4.7	6.5	10.0	2.5	6	1.8	2.5	478-1908-ND	1.28	1.10	.86	TAP475K050SCS
6.8	7.0	10.5	2.5	6	2.7	2.0	478-1923-ND	3.01	2.58	2.03	TAP685K050SCS
10	8.0	11.5	2.5	8	4.0	1.6	478-1843-ND	5.25	4.50	3.53	TAP106K050SCS
10	8.0	13.0	5.0	8	4.0	1.6	478-4172-ND	4.55	3.90	3.06	TAP106K050CCS
15	8.5	14.0	5.0	8	6.0	1.2	478-1861-ND	5.78	4.95	3.88	TAP156K050CCS
22	9.0	14.0	5.0	8	8.8	1.0	478-1879-ND	9.45	8.10	6.35	TAP226K050CCS

◆ ***RoHS Compliant*** † 20% Capacitance Tolerance

TWA Series Wet Tantalum Capacitors

The TWA wet electrolytic tantalum capacitor represents a new level of capacitance and voltages, previously unachieved. It incorporates a novel, very high capacitance cathode system that allows for higher CV designs. All TWA products are built to the 93026 specification which includes the harsh shock and vibration requirements of 39006. This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand harsh environments. • **Capacitace Tolerance**: ±10% • **Operating Temperature:** -55°C ~ 125°C

Case Size		Dimensions (mm)		
DSCC	AVX	L	D Max.	E
T2	B	16.28	7.92	57.15
T3	D	19.46	10.31	57.15
T4	E	26.97	10.31	57.15

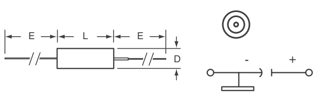

Rated Voltage (V)	Capacitance (µF)	Case Size	DCL (µA) Max. @ 25°C	ESR Max. (Ω) @ 120kHz	AC Ripple (mA rms) 85°C @ 40kHz	Digi-Key Part No.	Price Each			AVX Part No.
							1	10	100	
25	2200	E	4.2	0.5	3200	478-4966-ND	127.53	106.28	92.11	TWAE228K025CBSZ0000
50	220	B	2	0.9	1800	478-4967-ND	85.95	71.63	62.08	TWAB227K050CBSZ0000
60	1000	E	12	1	4000	478-4968-ND	127.53	106.28	92.11	TWAE108K060CBSZ0000
75	330	D	3	1	2100	478-4969-ND	77.85	64.88	56.23	TWAD337K075CBSZ0000
75	470	E	5	0.9	2750	478-4970-ND	98.10	81.75	70.85	TWAE477K075CBSZ0000
100	220	E	5	1.2	2750	478-4971-ND	98.10	81.75	70.85	TWAE227K100CBSZ0000

AVX

TAJ Series

Standard Surface Mount Tantalum Capacitors

The TAJ standard series encompasses the sizes recognized by major OEMs throughout the world. **• Temperature Range:** -55°C ~ 85°C rated voltage and up to 125°C with voltage derating in applications utilizing recommended series resistance

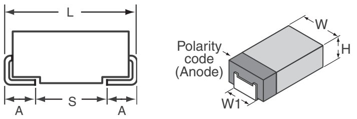

Case Size	EIA Code	Dimensions - mm					
		L	W	H	W1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
P	2012-15	2.05	1.35	1.50	1.00	0.50	0.85
R	2012-12	2.05	1.30	1.20	1.00	0.50	0.85

Case Size	EIA Code	Dimensions - mm					
		L	W	H	W1	A	S (Min.)
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
2.5	220	10	B	16	4.4	1600	478-3269-1-ND†	1.00	.87	.76	478-3269-2-ND	2,000	306.00/M	TAJB227K002RNJ
	680	10	C	18	17.0	200	478-4771-1-ND	3.11	2.71	2.37	478-4771-2-ND	500	566.00	TAJC687K002RNJ
4	2.2	20	R	6	0.5	25000	478-3053-1-ND	1.08	.94	.83	478-3053-2-ND	2,500	367.00/M	TAJR225M004RNJ
	22	10	P	8	0.9	5000	478-3270-1-ND	1.20	1.05	.92	478-3270-2-ND	2,500	367.00/M	TAJP226K004RNJ
	22	20	R	8	0.9	3800	478-3055-1-ND	1.08	.94	.83	478-3055-2-ND	2,500	367.00/M	TAJR226M004RNJ
	33	10	A	6	1.3	3000	478-1665-1-ND†	.50	.44	.38	478-1665-2-ND	2,000	170.00/M	TAJA336K004RNJ
	47	10	A	8	1.9	2600	478-1669-1-ND	.50	.44	.38	478-1669-2-ND	2,000	170.00/M	TAJA476K004RNJ
	47	20	A	8	1.9	2600	478-3870-1-ND	.50	.44	.38	478-3870-2-ND	2,000	170.00/M	TAJA476M004RNJ
	68	10	B	6	2.7	1800	478-2344-1-ND	.65	.57	.50	478-2344-2-ND	2,000	221.00/M	TAJB686K004RNJ
	100	10	B	8	4	900	478-1676-1-ND	1.15	1.01	.88	478-1676-2-ND	2,000	391.00/M	TAJB107K004RNJ
	150	10	B	8	6	1500	478-2345-1-ND	1.00	.87	.76	478-2345-2-ND	2,000	340.00/M	TAJB157K004RNJ
	150	20	B	8	6	1500	478-3878-1-ND	1.00	.87	.76	478-3878-2-ND	2,000	340.00/M	TAJB157M004RNJ
	220	10	C	8	8.8	1200	478-2346-1-ND	2.35	2.05	1.79	478-2346-2-ND	500	399.50	TAJC227K004RNJ
	220	10	D	8	8.8	900	478-3064-1-ND	1.89	1.65	1.44	478-3064-2-ND	500	344.00	TAJD227K004RNJ
	330	10	C	8	13.2	900	478-2347-1-ND	2.43	2.11	1.85	478-2347-2-ND	500	412.50	TAJC337K004RNJ
	330	10	D	8	13.2	900	478-3065-1-ND	2.16	1.88	1.65	478-3065-2-ND	500	393.00	TAJD337K004RNJ
	470	10	C	14	18.8	300	478-4772-1-ND	2.88	2.51	2.19	478-4772-2-ND	500	523.50	TAJC477K004RNJ
	470	10	D	12	18.8	900	478-3066-1-ND	3.35	2.92	2.55	478-3066-2-ND	500	610.00	TAJD477K004RNJ
	470	10	E	10	18.8	500	478-3271-1-ND†	7.00	6.09	5.32	478-3271-2-ND	400	917.20	TAJE477K004RNJ
	680	10	D	14	27.2	500	478-3067-1-ND	3.65	3.18	2.78	478-3067-2-ND	500	663.50	TAJD687K004RNJ
	1000	10	E	14	40	400	478-2348-1-ND†	10.75	9.36	8.17	478-2348-2-ND	400	1462.00	TAJE108K004RNJ
6.3	2.2	20	A	6	0.5	9000	478-3862-1-ND	.45	.40	.35	478-3862-2-ND	2,000	153.00/M	TAJA225M006RNJ
	2.2	20	S	6	0.5	18000	478-3966-1-ND	1.18	1.03	.90	478-3966-2-ND	2,500	428.00/M	TAJS225M006RNJ
	3.3	20	A	6	0.5	6000	478-3029-1-ND	.37	.33	.29	478-3029-2-ND	2,000	125.00/M	TAJA335M006RNJ
	4.7	10	A	6	0.5	6000	478-3867-1-ND	.38	.33	.29	478-3867-2-ND	2,000	128.00/M	TAJA475K006RNJ
	4.7	20	A	6	0.5	6000	478-3031-1-ND	.38	.33	.29	478-3031-2-ND	2,000	128.00/M	TAJA475M006RNJ
	4.7	10	R	6	0.5	700	478-3272-1-ND	1.10	.96	.84	478-3272-2-ND	2,500	337.00/M	TAJR475K006RNJ
	6.8	20	A	6	0.5	5000	478-3871-1-ND	.45	.40	.35	478-3871-2-ND	2,000	153.00/M	TAJA685M006RNJ
	6.8	20	B	6	0.7	3000	478-3045-1-ND	.50	.44	.39	478-3045-2-ND	2,000	171.00/M	TAJB685M006RNJ
	10	10	A	6	0.6	4000	478-1653-1-ND	.40	.35	.31	478-1653-2-ND	2,000	136.00/M	TAJA106K006RNJ
	10	20	A	6	0.6	4000	478-1656-1-ND	.38	.33	.29	478-1656-2-ND	2,000	128.00/M	TAJA106M006RNJ
	10	10	B	6	0.6	3000	478-3873-1-ND	.21	.18	.16	478-3873-2-ND	2,000	70.00/M	TAJB106K006RNJ
	10	20	B	6	0.6	3000	478-3874-1-ND	.20	.18	.16	478-3874-2-ND	2,000	68.00/M	TAJB106M006RNJ
	10	20	R	8	0.6	6000	478-3051-1-ND	1.08	.94	.83	478-3051-2-ND	2,500	367.00/M	TAJR106M006RNJ
	10	10	R	8	0.6	6000	478-3273-1-ND	1.10	.96	.84	478-3273-2-ND	2,500	337.00/M	TAJR106K006RNJ
	10	10	S	6	0.6	6000	478-3965-1-ND	1.20	1.05	.92	478-3965-2-ND	2,500	437.00/M	TAJS106K006RNJ
	15	10	P	8	0.9	3500	478-3274-1-ND	1.20	1.05	.92	478-3274-2-ND	2,500	367.00/M	TAJP156K006RNJ
	15	10	S	8	0.9	4000	478-3275-1-ND	1.20	1.05	.92	478-3275-2-ND	2,500	367.00/M	TAJS156K006RNJ
	15	20	A	6	0.9	3500	478-3026-1-ND	.45	.40	.35	478-3026-2-ND	2,000	153.00/M	TAJA156M006RNJ
	22	10	A	6	1.4	3000	478-3865-1-ND	.17	.15	.13	478-3865-2-ND	2,000	58.00/M	TAJA226K006RNJ
	22	20	A	6	1.4	3000	478-3028-1-ND	.51	.45	.39	478-3028-2-ND	2,000	173.00/M	TAJA226M006RNJ
	22	10	B	6	1.4	2500	478-1681-1-ND	.53	.47	.41	478-1681-2-ND	2,000	181.00/M	TAJB226K006RNJ
	22	10	C	6	1.4	2000	478-3898-1-ND	.31	.28	.24	478-3898-2-ND	500	57.00	TAJC226K006RNJ
	22	20	T	8	1.4	2500	478-3969-1-ND	1.37	1.20	1.05	478-3969-2-ND	2,500	499.00/M	TAJT226M006RNJ
	33	10	A	8	2.1	2500	478-1666-1-ND	.63	.55	.48	478-1666-2-ND	2,000	213.00/M	TAJA336K006RNJ
	33	20	A	8	2.1	2500	478-1667-1-ND	.63	.55	.48	478-1667-2-ND	2,000	213.00/M	TAJA336M006RNJ
	47	10	A	10	2.8	1600	478-5800-1-ND ***NEW!***	.68	.59	.52	478-5800-2-ND ***NEW!***	2,000	230.00/M	TAJA476K006RNJ
	47	10	B	6	3	2000	478-1692-1-ND	.65	.57	.50	478-1692-2-ND	2,000	221.00/M	TAJB476K006RNJ
	47	20	B	6	3	2000	478-3890-1-ND	.65	.57	.50	478-3890-2-ND	2,000	221.00/M	TAJB476M006RNJ
	47	10	T	10	2.8	1600	478-3276-1-ND	1.40	1.22	1.07	478-3276-2-ND	2,500	428.00/M	TAJT476K006RNJ
	68	10	B	8	4	900	478-1696-1-ND	.75	.66	.57	478-1696-2-ND	2,000	255.00/M	TAJB686K006RNJ
	100	10	B	10	6.3	1700	478-1677-1-ND†	1.25	1.09	.95	478-1677-2-ND	2,000	425.00/M	TAJB107K006RNJ
	100	20	B	10	6.3	1700	478-3877-1-ND	1.25	1.09	.95	478-3877-2-ND	2,000	425.00/M	TAJB107M006RNJ
	100	10	C	6	6.3	900	478-1703-1-ND	1.20	1.05	.92	478-1703-2-ND	500	218.50	TAJC107K006RNJ
	100	10	D	6	6	600	478-3917-1-ND	1.95	1.70	1.49	478-3917-2-ND	500	355.00	TAJD107K006RNJ
	150	20	B	10	9.5	1200	478-4692-1-ND	1.63	1.42	1.24	478-4692-2-ND	2,000	553.00/M	TAJB157M006RNJ
	150	10	C	6	9.5	1300	478-1709-1-ND	1.95	1.70	1.49	478-1709-2-ND	500	355.00	TAJC157K006RNJ
	220	10	C	8	13.9	1200	478-1713-1-ND†	2.10	1.83	1.60	478-1713-2-ND	500	382.00	TAJC227K006RNJ
	220	20	D	8	13.9	900	478-3928-1-ND	2.60	2.26	1.98	478-3928-2-ND	500	472.50	TAJD227M006RNJ
	330	10	C	12	19.8	500	478-4773-1-ND	2.79	2.43	2.13	478-4773-2-ND	500	508.00	TAJC337K006RNJ
	330	10	E	8	20.8	400	478-3955-1-ND	1.60	1.40	1.22	478-3955-2-ND	400	232.80	TAJE337K006RNJ
	330	20	E	8	20.8	400	478-3956-1-ND	5.10	4.44	3.88	478-3956-2-ND	400	742.00	TAJE337M006RNJ
	330	10	Y	8	20.8	900	478-3277-1-ND	3.00	2.61	2.28	478-3277-2-ND	1,000	983.00	TAJY337K006RNJ
	470	10	D	12	28	400	478-1741-1-ND†	3.75	3.27	2.85	478-1741-2-ND	500	682.50	TAJD477K006RNJ
	470	20	D	12	28	400	478-3940-1-ND	3.50	3.05	2.66	478-3940-2-ND	500	637.00	TAJD477M006RNJ
	470	10	Y	20	28.2	200	478-4706-1-ND	3.00	2.61	2.28	478-4706-2-ND	1,000	1092.00	TAJY477K006RNJ
	680	10	E	10	42.8	500	478-2349-1-ND	8.70	7.57	6.62	478-2349-2-ND	400	1183.20	TAJE687K006RNJ
	1000	20	E	20	60	200	478-6133-1-ND ***NEW!***	12.25	10.66	9.31	478-6133-2-ND ***NEW!***	400	1783.60	TAJE108M006RNJ
10	1.0	10	R	4	0.5	25000	478-3278-1-ND	1.10	.96	.84	478-3278-2-ND	2,500	337.00/M	TAJR105K010RNJ
	1.0	20	R	4	0.5	25000	478-3049-1-ND	1.08	.94	.83	478-3049-2-ND	2,500	367.00/M	TAJR105M010RNJ
	2.2	10	A	6	0.5	7000	478-3861-1-ND	.48	.42	.37	478-3861-2-ND	2,000	162.00/M	TAJA225K010RNJ
	2.2	20	A	6	0.5	7000	478-3027-1-ND	.48	.42	.37	478-3027-2-ND	2,000	162.00/M	TAJA225M010RNJ
	2.2	20	R	6	0.5	15000	478-3054-1-ND	1.08	.94	.83	478-3054-2-ND	2,500	367.00/M	TAJR225M010RNJ
	3.3	10	S	6	0.5	800	478-3279-1-ND	1.20	1.05	.92	478-3279-2-ND	2,500	367.00/M	TAJS335K010RNJ
	3.3	10	A	6	0.5	5500	478-3866-1-ND	.38	.34	.29	478-3866-2-ND	2,000	130.00/M	TAJA335K010RNJ
	3.3	20	A	6	0.5	5500	478-3030-1-ND	.38	.34	.29	478-3030-2-ND	2,000	130.00/M	TAJA335M010RNJ

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
10	3.3	20	R	6	0.5	8000	478-3056-1-ND	1.08	.94	.83	478-3056-2-ND	2,500	367.00/M	TAJR335M010RNJ
	4.7	10	A	6	0.5	5000	478-2350-1-ND	.43	.37	.33	478-2350-2-ND	2,000	145.00/M	TAJA475K010RNJ
	4.7	20	A	6	0.5	5000	478-3869-1-ND	.38	.34	.29	478-3869-2-ND	2,000	130.00/M	TAJA475M010RNJ
	4.7	10	R	6	0.5	9000	478-3280-1-ND	1.10	.96	.84	478-3280-2-ND	2,500	337.00/M	TAJR475K010RNJ
	4.7	10	B	6	0.5	4000	478-3886-1-ND	.50	.44	.39	478-3886-2-ND	2,000	171.00/M	TAJB475K010RNJ
	4.7	20	B	6	0.5	4000	478-3042-1-ND	.50	.44	.39	478-3042-2-ND	2,000	171.00/M	TAJB475M010RNJ
	4.7	20	R	6	0.5	9000	478-3057-1-ND	1.08	.94	.83	478-3057-2-ND	2,500	367.00/M	TAJR475M010RNJ
	6.8	10	A	6	0.7	4000	478-2351-1-ND	.45	.40	.35	478-2351-2-ND	2,000	153.00/M	TAJA685K010RNJ
	6.8	10	B	6	0.7	3000	478-3892-1-ND	.50	.44	.39	478-3892-2-ND	2,000	170.00/M	TAJB685K010RNJ
	6.8	20	B	6	0.7	3000	478-3893-1-ND	.50	.44	.39	478-3893-2-ND	2,000	170.00/M	TAJB685M010RNJ
	10	10	A	6	1	3000	478-1654-1-ND	.43	.37	.33	478-1654-2-ND	2,000	145.00/M	TAJA106K010RNJ
	10	20	A	6	1	3000	478-1657-1-ND	.40	.35	.31	478-1657-2-ND	2,000	136.00/M	TAJA106M010RNJ
	10	20	P	8	1	6000	478-3281-1-ND	1.18	1.03	.90	478-3281-2-ND	2,500	360.00/M	TAJP106M010RNJ
	10	10	C	6	1	2500	478-4972-1-ND	.45	.40	.35	478-4972-2-ND	500	82.00	TAJC106K010RNJ
	10	20	C	6	1	2500	478-5804-1-ND ***NEW!***	.45	.40	.35	478-5804-2-ND ***NEW!***	500	82.00	TAJC106M010RNJ
	10	10	B	6	1	2500	478-1672-1-ND	.53	.46	.40	478-1672-2-ND	2,000	179.00/M	TAJB106K010RNJ
	10	20	B	6	1	2500	478-3875-1-ND	.50	.44	.39	478-3875-2-ND	2,000	171.00/M	TAJB106M010RNJ
	10	10	T	6	1	3000	478-3967-1-ND	.88	.77	.67	478-3967-2-ND	2,500	320.00/M	TAJT106K010RNJ
	15	20	B	6	1.5	2800	478-3035-1-ND	.53	.47	.41	478-3035-2-ND	2,000	181.00/M	TAJB156M010RNJ
	15	10	A	6	1.5	3200	478-1660-1-ND	.50	.44	.38	478-1660-2-ND	2,000	170.00/M	TAJA156K010RNJ
	15	10	B	6	1.5	2800	478-3068-1-ND	.90	.79	.69	478-3068-2-ND	2,000	306.00/M	TAJB156K010RNJ
	15	20	A	6	1.5	3200	478-1661-1-ND	.50	.44	.38	478-1661-2-ND	2,000	162.00/M	TAJA156M010RNJ
	22	10	A	8	2.2	3000	478-1663-1-ND†	.50	.44	.38	478-1663-2-ND	2,000	170.00/M	TAJA226K010RNJ
	22	20	A	8	2.2	3000	478-5798-1-ND ***NEW!***	.49	.43	.38	478-5798-2-ND ***NEW!***	2,000	167.00/M	TAJA226M010RNJ
	22	10	B	6	2.2	2400	478-3039-1-ND	.55	.48	.42	478-3039-2-ND	2,000	187.00/M	TAJB226K010RNJ
	22	20	B	6	2.2	2400	478-3040-1-ND	.60	.53	.46	478-3040-2-ND	2,000	204.00/M	TAJB226M010RNJ
	22	10	C	6	2.2	1800	478-3856-1-ND	.95	.83	.73	478-3856-2-ND	500	95.50	TAJC226K010RNJ
	22	20	C	6	2.2	1800	478-3900-1-ND	.53	.46	.40	478-3900-2-ND	500	95.50	TAJC226M010RNJ
	33	10	B	6	3.3	1800	478-1687-1-ND	1.15	1.01	.88	478-1687-2-ND	2,000	391.00/M	TAJB336K010RNJ
	33	20	B	6	3.3	1800	478-5802-1-ND ***NEW!***	.85	.74	.65	478-5802-2-ND ***NEW!***	2,000	289.00/M	TAJB336M010RNJ
	33	10	C	6	3.3	1600	478-3905-1-ND	.44	.39	.34	478-3905-2-ND	500	80.00	TAJC336K010RNJ
	33	20	D	6	3.3	1100	478-3047-1-ND	1.57	1.37	1.20	478-3047-2-ND	500	285.50	TAJD336M010RNJ
	47	10	B	8	4.7	1000	478-1693-1-ND	.88	.77	.67	478-1693-2-ND	2,000	298.00/M	TAJB476K010RNJ
	47	20	B	8	4.7	1000	478-3891-1-ND	.88	.77	.67	478-3891-2-ND	2,000	298.00/M	TAJB476M010RNJ
	47	10	C	6	4.7	1200	478-3910-1-ND	.43	.37	.33	478-3910-2-ND	500	77.50	TAJC476K010RNJ
	47	20	C	6	4.7	1200	478-3911-1-ND	.44	.39	.34	478-3911-2-ND	500	80.00	TAJC476M010RNJ
	47	10	D	6	4.7	400	478-3048-1-ND	.83	.72	.63	478-3048-2-ND	500	150.00	TAJD476K010RNJ
	47	20	D	6	4.7	400	478-3937-1-ND	.83	.72	.63	478-3937-2-ND	500	150.00	TAJD476M010RNJ
	47	10	W	6	4.7	1400	478-3282-1-ND	2.25	1.96	1.71	478-3282-2-ND	1,000	737.00	TAJW476K010RNJ
	68	10	B	6	6.8	1400	478-3069-1-ND	.83	.73	.64	478-3069-2-ND	2,000	283.00/M	TAJB686K010RNJ
	68	10	C	6	6.8	1300	478-1721-1-ND	1.25	1.09	.95	478-1721-2-ND	500	227.50	TAJC686K010RNJ
	68	10	D	6	6.8	900	478-5810-1-ND ***NEW!***	1.50	1.31	1.14	478-5810-2-ND ***NEW!***	500	273.00	TAJD686K010RNJ
	68	20	D	6	6.8	900	478-3942-1-ND	1.53	1.33	1.17	478-3942-2-ND	500	278.00	TAJD686M010RNJ
	100	20	B	8	10	1400	478-5801-1-ND ***NEW!***	1.38	1.20	1.05	478-5801-2-ND ***NEW!***	2,000	468.00/M	TAJB107M010RNJ
	100	10	C	8	10	1200	478-1704-1-ND	1.25	1.09	.95	478-1704-2-ND	500	227.50	TAJC107K010RNJ
	100	20	C	8	10	1200	478-3897-1-ND	1.25	1.09	.95	478-3897-2-ND	500	227.50	TAJC107M010RNJ
	100	10	D	6	10	900	478-3355-1-ND	1.95	1.70	1.49	478-3355-2-ND	1,000	621.00	TAJD107K010RNJ
	100	20	D	6	10	900	478-3918-1-ND	1.76	1.53	1.34	478-3918-2-ND	500	319.50	TAJD107M010RNJ
	100	10	X	8	10	900	478-3283-1-ND	2.60	2.27	1.98	478-3283-2-ND	1,000	852.00	TAJX107K010RNJ
	150	10	C	8	15	900	478-2352-1-ND†	2.25	1.96	1.71	478-2352-2-ND	500	382.50	TAJC157K010RNJ
	150	10	D	6	15	900	478-2343-1-ND	2.65	2.31	2.02	478-2343-2-ND	500	450.50	TAJD157K010RNJ
	150	10	E	8	15	900	478-3948-1-ND	2.40	2.09	1.83	478-3948-2-ND	400	349.60	TAJE157K010RNJ
	150	20	E	8	15	900	478-3949-1-ND	4.39	3.83	3.34	478-3949-2-ND	400	639.60	TAJE157M010RNJ
	220	10	C	18	22	500	478-4774-1-ND	2.59	2.26	1.97	478-4774-2-ND	500	471.50	TAJC227K010RNJ
	220	10	D	8	22	500	478-1731-1-ND	2.65	2.31	2.02	478-1731-2-ND	500	482.50	TAJD227K010RNJ
	220	20	D	8	22	500	478-3929-1-ND	2.60	2.26	1.98	478-3929-2-ND	500	472.50	TAJD227M010RNJ
	220	10	E	8	22	500	478-3951-1-ND	1.80	1.57	1.37	478-3951-2-ND	400	262.00	TAJE227K010RNJ
	220	20	E	8	22	500	478-3952-1-ND ***NEW!***	2.50	2.18	1.90	478-3952-2-ND ***NEW!***	400	340.00	TAJE227M010RNJ
	220	10	Y	10	22	500	478-3284-1-ND	3.00	2.61	2.28	478-3284-2-ND	1,000	983.00	TAJY227K010RNJ
	330	10	D	8	33	900	478-1736-1-ND†	4.80	4.18	3.65	478-1736-2-ND	500	873.50	TAJD337K010RNJ
	330	20	D	8	33	900	478-3933-1-ND	4.45	3.88	3.39	478-3933-2-ND	500	810.00	TAJD337M010RNJ
	330	10	E	8	33	900	478-1748-1-ND	5.25	4.57	3.99	478-1748-2-ND	400	764.40	TAJE337K010RNJ
	330	20	E	8	33	900	478-3957-1-ND	5.25	4.57	3.99	478-3957-2-ND	400	764.40	TAJE337M010RNJ
	470	10	E	10	47	500	478-1749-1-ND	7.10	6.18	5.40	478-1749-2-ND	400	1033.60	TAJE477K010RNJ
	470	20	E	10	47	500	478-3959-1-ND	7.00	6.09	5.32	478-3959-2-ND	400	1019.20	TAJE477M010RNJ
16	1	10	A	4	0.5	11000	478-1649-1-ND	.44	.39	.34	478-1649-2-ND	2,000	150.00/M	TAJA105K016RNJ
	1	20	A	4	0.5	11000	478-1652-1-ND	.39	.34	.30	478-1652-2-ND	2,000	133.00/M	TAJA105M016RNJ
	1	10	R	4	0.5	20000	478-3962-1-ND	.88	.77	.67	478-3962-2-ND	2,500	320.00/M	TAJR105K016RNJ
	1	20	R	4	0.5	20000	478-3050-1-ND	1.08	.94	.83	478-3050-2-ND	2,500	367.00/M	TAJR105M016RNJ
	1.5	10	A	6	0.5	8000	478-3860-1-ND	.48	.42	.37	478-3860-2-ND	2,000	162.00/M	TAJA155K016RNJ
	1.5	20	A	6	0.5	8000	478-3025-1-ND	.48	.42	.37	478-3025-2-ND	2,000	162.00/M	TAJA155M016RNJ
	2.2	10	A	6	0.5	6500	478-2353-1-ND	.43	.37	.33	478-2353-2-ND	2,000	145.00/M	TAJA225K016RNJ
	2.2	20	A	6	0.5	6500	478-3863-1-ND	.38	.34	.29	478-3863-2-ND	2,000	130.00/M	TAJA225M016RNJ
	2.2	10	B	6	0.5	5500	478-3879-1-ND	.50	.44	.39	478-3879-2-ND	2,000	171.00/M	TAJB225K016RNJ
	2.2	20	B	6	0.5	5500	478-3036-1-ND	.50	.44	.39	478-3036-2-ND	2,000	171.00/M	TAJB255M016RNJ
	3.3	10	A	6	0.5	5000	478-2354-1-ND	.43	.37	.33	478-2354-2-ND	2,000	145.00/M	TAJA335K016RNJ
	3.3	10	T	6	0.5	500	478-3285-1-ND	1.40	1.22	1.07	478-3285-2-ND	2,500	428.00/M	TAJT335K016RNJ
	3.3	10	B	6	0.5	4500	478-3884-1-ND	.50	.44	.39	478-3884-2-ND	2,000	171.00/M	TAJB335K016RNJ
	3.3	20	B	6	0.5	4500	478-3041-1-ND	.50	.44	.39	478-3041-2-ND	2,000	171.00/M	TAJB335M016RNJ
	4.7	10	A	6	0.8	4000	478-3868-1-ND	.40	.35	.31	478-3868-2-ND	2,000	136.00/M	TAJA475K016RNJ
	4.7	20	A	6	0.8	4000	478-3032-1-ND	.40	.35	.31	478-3032-2-ND	2,000	136.00/M	TAJA475M016RNJ
	4.7	10	B	6	0.8	3500	478-1689-1-ND	.53	.46	.40	478-1689-2-ND	2,000	179.00/M	TAJB475K016RNJ
	4.7	20	B	6	0.8	3500	478-3888-1-ND	.53	.46	.40	478-3888-2-ND	2,000	179.00/M	TAJB475M016RNJ
	6.8	10	A	6	1.1	3500	478-1670-1-ND	.48	.42	.37	478-1670-2-ND	2,000	162.00/M	TAJA685K016RNJ
	6.8	20	B	6	1.1	2500	478-3046-1-ND	.50	.44	.39	478-3046-2-ND	2,000	171.00/M	TAJB685M016RNJ
	10	10	A	8	1.6	3000	478-1655-1-ND	.50	.44	.38	478-1655-2-ND	2,000	170.00/M	TAJA106K016RNJ
	10	20	A	8	1.6	3000	478-3859-1-ND	.40	.36	.31	478-3859-2-ND	2,000	137.00/M	TAJA106M016RNJ
	10	10	B	6	1.6	2800	478-1673-1-ND	.55	.48	.42	478-1673-2-ND	2,000	187.00/M	TAJB106K016RNJ
	10	20	B	6	1.6	2800	478-1675-1-ND	.53	.47	.41	478-1675-2-ND	2,000	181.00/M	TAJB106M016RNJ
	10	10	C	6	1.6	2000	478-1698-1-ND	.48	.42	.37	478-1698-2-ND	500	86.50	TAJC106K016RNJ
	10	20	C	6	1.6	2000	478-1702-1-ND	.40	.35	.31	478-1702-2-ND	500	73.00	TAJC106M016RNJ
	10	10	T	8	1.6	2200	478-3968-1-ND	1.40	1.22	1.07	478-3968-2-ND	2,500	510.00/M	TAJT106K016RNJ

(Continued)

TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
16	15	10	B	6	2.4	2500	478-2355-1-ND	.60	.53	.46	478-2355-2-ND	2,000	204.00/M	TAJB156K016RNJ
	15	10	C	6	2.4	1800	478-5805-1-ND ***NEW!***	.50	.44	.38	478-5805-2-ND ***NEW!***	500	91.00	TAJC156K016RNJ
	22	10	B	6	3.5	2300	478-1682-1-ND	.55	.48	.42	478-1682-2-ND	2,000	187.00/M	TAJB226K016RNJ
	22	20	B	6	3.5	2300	478-1684-1-ND	.55	.48	.42	478-1684-2-ND	2,000	187.00/M	TAJB226M016RNJ
	22	10	C	6	3.5	1600	478-3899-1-ND	.37	.33	.29	478-3899-2-ND	500	67.50	TAJC226K016RNJ
	22	20	C	6	3.5	1600	478-3901-1-ND	.34	.30	.26	478-3901-2-ND	500	62.00	TAJC226M016RNJ
	22	10	D	6	3.5	1100	478-3922-1-ND	1.60	1.40	1.22	478-3922-2-ND	500	291.00	TAJD226K016RNJ
	22	20	D	6	3.5	1100	478-3924-1-ND	1.57	1.37	1.20	478-3924-2-ND	500	285.50	TAJD226M016RNJ
	33	10	B	8	5.3	2100	478-1688-1-ND†	.95	.83	.73	478-1688-2-ND	2,000	323.00/M	TAJB336K016RNJ
	33	10	C	6	5.3	1500	478-1715-1-ND	.63	.55	.48	478-1715-2-ND	500	114.00	TAJC336K016RNJ
	33	20	C	6	5.3	1500	478-3906-1-ND	.63	.55	.48	478-3906-2-ND	500	114.00	TAJC336M016RNJ
	33	10	D	6	5.3	900	478-3930-1-ND	.48	.42	.37	478-3930-2-ND	500	86.50	TAJD336K016RNJ
	33	20	D	6	5.3	900	478-3931-1-ND	.50	.44	.39	478-3931-2-ND	500	91.50	TAJD336M016RNJ
	47	10	C	6	7.5	1400	478-1718-1-ND	1.00	.87	.76	478-1718-2-ND	500	182.00	TAJC476K016RNJ
	47	20	C	6	7.5	1400	478-3912-1-ND	1.00	.87	.76	478-3912-2-ND	500	182.00	TAJC476M016RNJ
	47	10	D	6	7.5	900	478-1739-1-ND	.83	.72	.63	478-1739-2-ND	500	150.00	TAJD476K016RNJ
	47	20	D	6	7.5	900	478-3938-1-ND	.83	.72	.63	478-3938-2-ND	500	150.00	TAJD476M016RNJ
	68	10	C	6	10.9	1300	478-3070-1-ND†	1.62	1.41	1.24	478-3070-2-ND	500	295.00	TAJC686K016RNJ
	68	10	D	6	10.9	900	478-1744-1-ND	1.60	1.40	1.22	478-1744-2-ND	500	291.00	TAJD686K016RNJ
	68	20	D	6	10.9	900	478-3943-1-ND	1.60	1.40	1.22	478-3943-2-ND	500	291.00	TAJD686M016RNJ
	100	10	C	8	16	1000	478-5258-1-ND	2.25	1.96	1.71	478-5258-2-ND	500	409.50	TAJC107K016RNJ
	100	10	D	6	16	900	478-1723-1-ND	1.30	1.14	.99	478-1723-2-ND	500	236.50	TAJD107K016RNJ
	100	20	D	6	16	900	478-3919-1-ND	1.30	1.14	.99	478-3919-2-ND	500	236.50	TAJD107M016RNJ
	100	10	E	6	16	900	478-3945-1-ND	1.90	1.66	1.45	478-3945-2-ND	400	276.80	TAJE107K016RNJ
	100	20	E	6	16	900	478-3946-1-ND	1.45	1.27	1.11	478-3946-2-ND	400	211.60	TAJE107M016RNJ
	150	10	D	6	24	900	478-2356-1-ND	3.25	2.83	2.47	478-2356-2-ND	500	552.50	TAJD157K016RNJ
	150	20	D	6	24	900	478-3921-1-ND	3.25	2.83	2.47	478-3921-2-ND	500	591.50	TAJD157M016RNJ
	220	10	E	10	35.2	500	478-2357-1-ND†	8.25	7.18	6.27	478-2357-2-ND	400	1122.00	TAJE227K016RNJ
	220	20	E	10	35.2	500	478-3953-1-ND	6.47	5.63	4.92	478-3953-2-ND	400	941.60	TAJE227M016RNJ
20	0.1	10	R	4	0.5	25000	478-3286-1-ND	1.10	.96	.84	478-3286-2-ND	2,500	337.00/M	TAJR104K020RNJ
	0.47	10	R	4	0.5	25000	478-3964-1-ND	1.10	.96	.84	478-3964-2-ND	2,500	400.00/M	TAJR474K020RNJ
	1	10	A	4	0.5	9000	478-1650-1-ND	.45	.40	.35	478-1650-2-ND	2,000	153.00/M	TAJA105K020RNJ
	1	20	A	4	0.5	9000	478-5748-1-ND ***NEW!***	.20	.18	.16	478-5748-2-ND ***NEW!***	2,000	68.00/M	TAJA105M020RNJ
	1	10	T	4	0.5	900	478-3288-1-ND	1.40	1.22	1.07	478-3288-2-ND	2,500	428.00/M	TAJT105K020RNJ
	1.5	10	A	6	0.5	6500	478-1658-1-ND	.35	.31	.27	478-1658-2-ND	2,000	119.00/M	TAJA155K020RNJ
	2.2	10	A	6	0.5	5300	478-2358-1-ND	.45	.40	.35	478-2358-2-ND	2,000	153.00/M	TAJA225K020RNJ
	2.2	20	A	6	0.5	5300	478-3864-1-ND	.34	.30	.26	478-3864-2-ND	2,000	116.00/M	TAJA225M020RNJ
	2.2	10	B	6	0.5	3500	478-3880-1-ND	.21	.18	.16	478-3880-2-ND	2,000	70.00/M	TAJB225K020RNJ
	2.2	20	B	6	0.5	3500	478-3037-1-ND	.50	.44	.39	478-3037-2-ND	2,000	171.00/M	TAJB225M020RNJ
	2.2	10	R	6	0.5	6000	478-4693-1-ND	1.10	.96	.84	478-4693-2-ND	2,500	374.00/M	TAJR225K020RNJ
	3.3	10	A	6	0.7	4500	478-1664-1-ND	.48	.42	.37	478-1664-2-ND	2,000	162.00/M	TAJA335K020RNJ
	3.3	10	B	6	0.7	3000	478-1685-1-ND	.50	.44	.39	478-1685-2-ND	2,000	171.00/M	TAJB335K020RNJ
	3.3	20	B	6	0.7	3000	478-3885-1-ND	.50	.44	.39	478-3885-2-ND	2,000	171.00/M	TAJB335M020RNJ
	4.7	10	A	6	1.2	3100	478-1668-1-ND†	.48	.42	.37	478-1668-2-ND	2,000	162.00/M	TAJA475K020RNJ
	4.7	20	A	6	1.2	3100	478-5799-1-ND ***NEW!***	.47	.41	.36	478-5799-2-ND ***NEW!***	2,000	160.00/M	TAJA475M020RNJ
	4.7	10	B	6	0.9	3000	478-3887-1-ND	.50	.44	.39	478-3887-2-ND	2,000	171.00/M	TAJB475K020RNJ
	4.7	20	B	6	0.9	3000	478-3043-1-ND	.50	.44	.39	478-3043-2-ND	2,000	171.00/M	TAJB475M020RNJ
	4.7	10	C	6	1.4	2800	478-5808-1-ND ***NEW!***	.73	.64	.56	478-5808-2-ND ***NEW!***	500	132.00	TAJC475K020RNJ
	6.8	10	A	6	1.4	2000	478-3071-1-ND	.50	.44	.38	478-3071-2-ND	2,000	168.00/M	TAJA685K020RNJ
	6.8	10	B	6	1.4	2500	478-1694-1-ND	.55	.48	.42	478-1694-2-ND	2,000	187.00/M	TAJB685K020RNJ
	6.8	10	C	6	1.4	2000	478-1719-1-ND†	.55	.48	.42	478-1719-2-ND	500	100.00	TAJC685K020RNJ
	10	10	B	6	2	2100	478-1674-1-ND	.50	.44	.38	478-1674-2-ND	2,000	170.00/M	TAJB106K020RNJ
	10	20	B	6	2	2100	478-3876-1-ND	.50	.44	.38	478-3876-2-ND	2,000	170.00/M	TAJB106M020RNJ
	10	10	C	6	2	1900	478-1699-1-ND	.46	.40	.35	478-1699-2-ND	500	83.50	TAJC106K020RNJ
	10	20	C	6	2	1900	478-3895-1-ND	.46	.40	.35	478-3895-2-ND	500	83.50	TAJC106M020RNJ
	15	10	B	6	3	2000	478-1679-1-ND	.60	.53	.46	478-1679-2-ND	2,000	204.00/M	TAJB156K020RNJ
	15	10	C	6	3	1700	478-1707-1-ND	.88	.77	.67	478-1707-2-ND	500	159.50	TAJC156K020RNJ
	22	10	B	6	4.4	1800	478-1683-1-ND†	.63	.55	.48	478-1683-2-ND	2,000	213.00/M	TAJB226K020RNJ
	22	20	B	6	4.4	1800	478-3883-1-ND	.63	.55	.48	478-3883-2-ND	2,000	213.00/M	TAJB226M020RNJ
	22	10	C	6	4.4	1600	478-1711-1-ND	1.00	.87	.76	478-1711-2-ND	500	182.00	TAJC226K020RNJ
	22	20	C	6	4.4	1600	478-3902-1-ND	1.00	.87	.76	478-3902-2-ND	500	182.00	TAJC226M020RNJ
	22	10	D	6	4.4	900	478-3923-1-ND	1.68	1.46	1.28	478-3923-2-ND	500	305.00	TAJD226K020RNJ
	22	20	D	6	4.4	900	478-3925-1-ND	1.64	1.43	1.25	478-3925-2-ND	500	298.50	TAJD226M020RNJ
	33	10	C	6	6.6	1500	478-1716-1-ND	1.00	.87	.76	478-1716-2-ND	500	182.00	TAJC336K020RNJ
	33	10	D	6	6.6	900	478-1734-1-ND	.75	.66	.57	478-1734-2-ND	500	136.50	TAJD336K020RNJ
	47	10	C	6	9.4	900	478-2359-1-ND	1.98	1.72	1.51	478-2359-2-ND	500	336.00	TAJC476K020RNJ
	47	10	D	6	9.4	900	478-3936-1-ND	.75	.66	.57	478-3936-2-ND	500	136.50	TAJD476K020RNJ
	47	20	D	6	9.4	900	478-5809-1-ND ***NEW!***	.75	.66	.57	478-5809-2-ND ***NEW!***	500	136.50	TAJD476M020RNJ
	68	10	D	6	13.6	900	478-1745-1-ND	2.30	2.01	1.75	478-1745-2-ND	500	418.50	TAJD686K020RNJ
	68	10	E	6	13.6	900	478-3960-1-ND	3.20	2.79	2.44	478-3960-2-ND	400	466.00	TAJE686K020RNJ
	100	10	D	6	20	900	478-1724-1-ND†	3.25	2.83	2.47	478-1724-2-ND	500	591.50	TAJD107K020RNJ
	100	10	E	6	20	900	478-1746-1-ND	3.08	2.68	2.34	478-1746-2-ND	400	447.60	TAJE107K020RNJ
	100	20	E	6	20	900	478-3947-1-ND	3.08	2.68	2.34	478-3947-2-ND	400	447.60	TAJE107M020RNJ
	150	10	E	8	30	300	478-2360-1-ND	5.49	4.78	4.18	478-2360-2-ND	400	746.80	TAJE157K020RNJ
25	0.47	10	A	4	0.5	14000	478-2339-1-ND	1.00	.87	.76	478-2339-2-ND	2,000	340.00/M	TAJA474K025RNJ
	1	10	A	4	0.5	8000	478-2363-1-ND	.48	.42	.37	478-2363-2-ND	2,000	162.00/M	TAJA105K025RNJ
	1	20	A	4	0.5	8000	478-3857-1-ND	.38	.34	.29	478-3857-2-ND	2,000	130.00/M	TAJA105M025RNJ
	1.5	10	A	6	0.5	7500	478-2364-1-ND	.45	.40	.35	478-2364-2-ND	2,000	153.00/M	TAJA155K025RNJ
	1.5	20	B	6	0.5	5000	478-3034-1-ND	.50	.44	.39	478-3034-2-ND	2,000	171.00/M	TAJB155M025RNJ
	2.2	10	A	6	0.6	7000	478-1662-1-ND	.48	.42	.37	478-1662-2-ND	2,000	162.00/M	TAJA225K025RNJ
	2.2	10	B	6	0.6	4500	478-3881-1-ND	.21	.19	.17	478-3881-2-ND	2,000	72.00/M	TAJB225K025RNJ
	2.2	20	B	6	0.6	4500	478-3038-1-ND	.50	.44	.39	478-3038-2-ND	2,000	171.00/M	TAJB225M025RNJ
	3.3	10	A	6	0.8	3700	478-3072-1-ND	.50	.44	.38	478-3072-2-ND	2,000	168.00/M	TAJA335K025RNJ
	3.3	10	B	6	0.8	3500	478-2365-1-ND	.75	.66	.57	478-2365-2-ND	2,000	255.00/M	TAJB335K025RNJ
	3.3	10	C	6	0.8	2800	478-3903-1-ND	.74	.65	.57	478-3903-2-ND	500	134.50	TAJC335K025RNJ
	3.3	20	C	6	0.8	2800	478-3904-1-ND	.72	.63	.56	478-3904-2-ND	500	132.00	TAJC335M025RNJ
	4.7	10	B	6	1.2	1500	478-1690-1-ND	.55	.48	.42	478-1690-2-ND	2,000	187.00/M	TAJB475K025RNJ
	4.7	20	B	6	1.2	1500	478-5803-1-ND ***NEW!***	.45	.40	.35	478-5803-2-ND ***NEW!***	2,000	153.00/M	TAJB475M025RNJ
	4.7	10	C	6	1.2	2400	478-3907-1-ND	.38	.34	.29	478-3907-2-ND	500	69.00	TAJC475K025RNJ
	4.7	20	C	6	1.2	2400	478-3908-1-ND	.38	.34	.29	478-3908-2-ND	500	69.00	TAJC475M025RNJ
	6.8	10	B	6	1.7	2800	478-1695-1-ND†	.65	.57	.50	478-1695-2-ND	2,000	221.00/M	TAJB685K025RNJ

(Continued)

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
25	6.8	10	C	6	1.7	2000	478-3913-1-ND	.42	.37	.32	478-3913-2-ND	500	75.50	TAJC685K025RNJ
	10	10	B	6	2.5	2500	478-5257-1-ND	.85	.74	.65	478-5257-2-ND	2,000	289.00/M	TAJB106K025RNJ
	10	10	C	6	2.5	1800	478-1700-1-ND	.53	.46	.40	478-1700-2-ND	500	95.50	TAJC106K025RNJ
	10	20	C	6	2.5	1800	478-3896-1-ND	.48	.42	.37	478-3896-2-ND	500	86.50	TAJC106M025RNJ
	10	10	D	6	2.5	1200	478-3354-1-ND	1.68	1.46	1.28	478-3354-2-ND	500	273.00	TAJD106K025RNJ
	10	20	D	6	2.5	1200	478-3915-1-ND	1.50	1.31	1.14	478-3915-2-ND	500	273.00	TAJD106M025RNJ
	10	10	W	6	2.5	1800	478-3289-1-ND	2.25	1.96	1.71	478-3289-2-ND	1,000	737.00	TAJW106K025RNJ
	15	10	D	6	3.8	1000	478-1726-1-ND	.85	.74	.65	478-1726-2-ND	500	154.50	TAJD156K025RNJ
	22	10	C	6	5.5	1400	478-1712-1-ND†	1.05	.92	.80	478-1712-2-ND	500	191.00	TAJC226K025RNJ
	22	20	C	6	5.5	1400	478-5807-1-ND ***NEW!***	.90	.79	.69	478-5807-2-ND ***NEW!***	500	164.00	TAJC226M025RNJ
	22	10	D	6	5.5	900	478-1729-1-ND	.94	.82	.72	478-1729-2-ND	500	170.00	TAJD226K025RNJ
	22	20	D	6	5.5	900	478-3926-1-ND	1.64	1.43	1.25	478-3926-2-ND	500	298.50	TAJD226M025RNJ
	33	10	D	6	8.3	900	478-2366-1-ND	3.25	2.83	2.47	478-2366-2-ND	500	552.50	TAJD336K025RNJ
	33	10	E	6	8.3	900	478-3954-1-ND	1.64	1.43	1.25	478-3954-2-ND	400	238.80	TAJE336K025RNJ
	47	10	D	6	11.8	900	478-1740-1-ND†	3.89	3.39	2.96	478-1740-2-ND	500	708.00	TAJD476K025RNJ
	47	20	D	6	11.8	900	478-3939-1-ND	2.25	1.96	1.71	478-3939-2-ND	500	409.50	TAJD476M025RNJ
	47	10	Y	6	11.8	900	478-5259-1-ND	3.00	2.61	2.28	478-5259-2-ND	1,000	1092.00	TAJY476K025RNJ
	68	10	E	6	17	900	478-1750-1-ND	8.25	7.18	6.27	478-1750-2-ND	400	1201.20	TAJE686K025RNJ
	68	20	E	6	17	900	478-3961-1-ND	6.88	5.99	5.23	478-3961-2-ND	400	1001.20	TAJE686M025RNJ
	100	10	V	8	25	400	478-2367-1-ND	9.25	8.05	7.03	478-2367-2-ND	400	1258.00	TAJV107K025RNJ
	100	20	V	8	25	400	478-3970-1-ND	9.15	7.97	6.96	478-3970-2-ND	400	1332.40	TAJV107M025RNJ
	100	20	E	10	25	300	478-5531-1-ND	10.91	9.50	8.30	478-5531-2-ND	400	1588.40	TAJE107M025RNJ
35	0.1	10	A	4	0.5	24000	478-2368-1-ND	1.00	.87	.76	478-2368-2-ND	2,000	340.00/M	TAJA104K035RNJ
	0.15	10	A	4	0.5	21000	478-2336-1-ND	1.00	.87	.76	478-2336-2-ND	2,000	340.00/M	TAJA154K035RNJ
	0.22	10	A	4	0.5	18000	478-2337-1-ND	1.00	.87	.76	478-2337-2-ND	2,000	340.00/M	TAJA224K035RNJ
	0.33	10	A	4	0.5	15000	478-2338-1-ND	1.00	.87	.76	478-2338-2-ND	2,000	340.00/M	TAJA334K035RNJ
	0.47	10	A	4	0.5	12000	478-2340-1-ND	1.00	.87	.76	478-2340-2-ND	2,000	340.00/M	TAJA474K035RNJ
	0.47	10	B	4	0.5	10000	478-2373-1-ND	1.50	1.31	1.14	478-2373-2-ND	2,000	510.00/M	TAJB474K035RNJ
	0.68	10	A	4	0.5	8000	478-2341-1-ND	1.15	1.01	.88	478-2341-2-ND	2,000	391.00/M	TAJA684K035RNJ
	0.68	20	B	4	0.5	8000	478-3044-1-ND	.75	.66	.57	478-3044-2-ND	2,000	255.00/M	TAJB684M035RNJ
	1	10	A	4	0.5	7500	478-1651-1-ND†	.50	.44	.38	478-1651-2-ND	2,000	170.00/M	TAJA105K035RNJ
	1	20	A	4	0.5	7500	478-3858-1-ND	.40	.35	.31	478-3858-2-ND	2,000	136.00/M	TAJA105M035RNJ
	1	10	B	4	0.5	6500	478-1671-1-ND	.50	.44	.39	478-1671-2-ND	2,000	171.00/M	TAJB105K035RNJ
	1	20	B	4	0.5	6500	478-3872-1-ND	.50	.44	.39	478-3872-2-ND	2,000	171.00/M	TAJB105M035RNJ
	10	20	C	6	3.5	1600	478-4973-1-ND	1.30	1.14	.99	478-4973-2-ND	500	236.50	TAJC106M035RNJ
	1.5	10	A	6	0.5	7500	478-1659-1-ND	.70	.61	.54	478-1659-2-ND	2,000	238.00/M	TAJA155K035RNJ
	1.5	10	B	6	0.5	5200	478-1678-1-ND	.60	.53	.46	478-1678-2-ND	2,000	204.00/M	TAJB155K035RNJ
	2.2	10	A	6	0.8	4500	478-3073-1-ND	.90	.79	.69	478-3073-2-ND	2,000	306.00/M	TAJA225K035RNJ
	2.2	10	B	6	0.8	4200	478-1680-1-ND	.53	.46	.40	478-1680-2-ND	2,000	179.00/M	TAJB225K035RNJ
	2.2	20	B	6	0.8	4200	478-3882-1-ND	.53	.46	.40	478-3882-2-ND	2,000	179.00/M	TAJB225M035RNJ
	2.2	10	C	6	0.8	3500	478-1710-1-ND	.55	.48	.42	478-1710-2-ND	500	100.00	TAJC225K035RNJ
	2.2	20	C	6	0.8	3500	478-5806-1-ND ***NEW!***	.50	.44	.38	478-5806-2-ND ***NEW!***	500	91.00	TAJC225M035RNJ
	2.2	10	T	6	0.8	4200	478-3290-1-ND	1.40	1.22	1.07	478-3290-2-ND	2,500	428.00/M	TAJT225K035RNJ
	3.3	10	B	6	1.2	3500	478-1686-1-ND	.55	.48	.42	478-1686-2-ND	2,000	187.00/M	TAJB335K035RNJ
	3.3	10	C	6	1.2	2500	478-1714-1-ND	.53	.46	.40	478-1714-2-ND	500	95.50	TAJC335K035RNJ
	4.7	10	B	6	1.2	3100	478-1691-1-ND†	.65	.57	.50	478-1691-2-ND	2,000	221.00/M	TAJB475K035RNJ
	4.7	20	B	6	1.2	3100	478-3889-1-ND	.65	.57	.50	478-3889-2-ND	2,000	221.00/M	TAJB475M035RNJ
	4.7	10	C	6	1.6	2200	478-1717-1-ND	.53	.46	.40	478-1717-2-ND	500	95.50	TAJC475K035RNJ
	4.7	20	C	6	1.6	2200	478-3909-1-ND	.53	.46	.40	478-3909-2-ND	500	95.50	TAJC475M035RNJ
	4.7	10	D	6	1.6	1500	478-1737-1-ND	.83	.72	.63	478-1737-2-ND	500	150.00	TAJD475K035RNJ
	4.7	20	D	6	1.6	1500	478-3934-1-ND	.83	.72	.63	478-3934-2-ND	500	150.00	TAJD475M035RNJ
	6.8	10	C	6	2.4	1800	478-1720-1-ND	.63	.55	.48	478-1720-2-ND	500	114.00	TAJC685K035RNJ
	6.8	10	D	6	2.4	1300	478-1742-1-ND	.83	.72	.63	478-1742-2-ND	500	150.00	TAJD685K035RNJ
	10	10	C	6	3.5	1600	478-1701-1-ND†	.95	.83	.73	478-1701-2-ND	500	173.00	TAJC106K035RNJ
	10	10	D	6	3.5	1000	478-1722-1-ND	.88	.77	.67	478-1722-2-ND	500	159.50	TAJD106K035RNJ
	10	20	D	6	3.5	1000	478-3916-1-ND	.88	.77	.67	478-3916-2-ND	500	159.50	TAJD106M035RNJ
	15	10	C	6	5.3	1400	478-1708-1-ND	1.25	1.09	.95	478-1708-2-ND	500	227.50	TAJC156K035RNJ
	15	10	D	6	5.3	900	478-1727-1-ND	1.05	.92	.80	478-1727-2-ND	500	191.00	TAJD156K035RNJ
	15	20	D	6	5.3	900	478-3920-1-ND	1.05	.92	.80	478-3920-2-ND	500	191.00	TAJD156M035RNJ
	22	10	D	6	7.7	900	478-1730-1-ND†	2.01	1.75	1.53	478-1730-2-ND	500	366.00	TAJD226K035RNJ
	22	20	D	6	7.7	900	478-3927-1-ND	2.01	1.75	1.53	478-3927-2-ND	500	366.00	TAJD226M035RNJ
	22	10	E	6	7.7	900	478-1747-1-ND	4.25	3.70	3.23	478-1747-2-ND	400	618.80	TAJE226K035RNJ
	22	20	E	6	7.7	900	478-3950-1-ND	4.25	3.70	3.23	478-3950-2-ND	400	618.80	TAJE226M035RNJ
	33	10	D	6	11.6	900	478-1735-1-ND	4.00	3.48	3.04	478-1735-2-ND	500	728.00	TAJD336K035RNJ
	33	20	D	6	11.6	900	478-3932-1-ND	3.90	3.40	2.97	478-3932-2-ND	500	710.00	TAJD336M035RNJ
	47	10	E	6	16.5	900	478-3074-1-ND†	7.43	6.46	5.65	478-3074-2-ND	400	1081.20	TAJE476K035RNJ
	47	20	E	6	16.5	900	478-3958-1-ND	6.88	5.99	5.23	478-3958-2-ND	400	1001.20	TAJE476M035RNJ
50	0.1	10	A	4	0.5	22000	478-1648-1-ND	.75	.66	.57	478-1648-2-ND	2,000	255.00/M	TAJA104K050RNJ
	0.22	10	A	4	0.5	18000	478-2376-1-ND	1.00	.87	.76	478-2376-2-ND	2,000	340.00/M	TAJA224K050RNJ
	0.33	10	B	4	0.5	12000	478-2377-1-ND†	1.50	1.31	1.14	478-2377-2-ND	2,000	510.00/M	TAJB334K050RNJ
	0.47	10	B	4	0.7	9500	478-2378-1-ND	1.50	1.31	1.14	478-2378-2-ND	2,000	510.00/M	TAJB474K050RNJ
	0.68	10	B	4	0.5	8000	478-2379-1-ND	1.50	1.31	1.14	478-2379-2-ND	2,000	510.00/M	TAJB684K050RNJ
	0.68	10	C	4	0.5	7000	478-2342-1-ND	2.25	1.96	1.71	478-2342-2-ND	500	382.50	TAJC684K050RNJ
	1	10	B	4	0.5	7000	478-3075-1-ND	1.35	1.18	1.03	478-3075-2-ND	2,000	459.00/M	TAJB105K050RNJ
	1	10	C	4	0.5	5500	478-1697-1-ND†	.75	.66	.57	478-1697-2-ND	500	136.50	TAJC105K050RNJ
	1	20	C	4	0.5	5500	478-3894-1-ND	.75	.66	.57	478-3894-2-ND	500	136.50	TAJC105M050RNJ
	1.5	10	C	6	0.8	4500	478-1706-1-ND	2.25	1.96	1.71	478-1706-2-ND	500	409.50	TAJC155K050RNJ
	1.5	10	D	6	0.8	4000	478-1725-1-ND	4.60	4.01	3.50	478-1725-2-ND	500	837.00	TAJD155K050RNJ
	2.2	10	D	6	1.1	2500	478-1728-1-ND	1.43	1.24	1.09	478-1728-2-ND	500	259.50	TAJD225K050RNJ
	3.3	10	C	6	1.7	2500	478-3076-1-ND	2.03	1.77	1.54	478-3076-2-ND	500	368.50	TAJC335K050RNJ
	3.3	10	D	6	1.7	2000	478-1733-1-ND	1.40	1.22	1.07	478-1733-2-ND	500	255.00	TAJD335K050RNJ
	4.7	10	C	4	0.5	1400	478-4775-1-ND	2.25	1.96	1.71	478-4775-2-ND	500	409.50	TAJC475K050RNJ
	4.7	10	D	6	2.4	1400	478-1738-1-ND	1.43	1.24	1.09	478-1738-2-ND	500	259.50	TAJD475K050RNJ
	4.7	20	D	6	2.4	1400	478-3935-1-ND	1.60	1.40	1.22	478-3935-2-ND	500	291.00	TAJD475M050RNJ
	6.8	10	C	6	3.4	1000	478-4776-1-ND	2.25	1.96	1.71	478-4776-2-ND	500	409.50	TAJC685K050RNJ
	6.8	10	D	6	3.4	1000	478-1743-1-ND†	5.25	4.57	3.99	478-1743-2-ND	500	955.50	TAJD685K050RNJ
	6.8	20	D	6	3.4	1000	478-3941-1-ND	4.12	3.59	3.13	478-3941-2-ND	500	749.00	TAJD685M050RNJ
	10	10	D	6	5	800	478-2380-1-ND	5.25	4.57	3.99	478-2380-2-ND	500	892.50	TAJD106K050RNJ
	10	10	E	6	5	1000	478-3291-1-ND†	11.25	9.79	8.55	478-3291-2-ND	400	1474.40	TAJE106K050RNJ
	10	20	E	6	5	1000	478-3944-1-ND	9.60	8.36	7.30	478-3944-2-ND	400	1397.60	TAJE106M050RNJ
	15	10	E	6	7.5	600	478-3077-1-ND	10.13	8.81	7.70	478-3077-2-ND	400	1474.40	TAJE156K050RNJ
	22	10	V	8	11	600	478-5811-1-ND ***NEW!***	9.25	8.05	7.03	478-5811-2-ND ***NEW!***	400	1258.00	TAJV226K050RNJ

† 478-3443-ND ***TAJ Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook.. **$46.25**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TPS Series Low ESR Surface Mount Tantalum Capacitors

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and preconditioned for optimum performance in typical power supply applications.

- **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions - mm L	W	H	W1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40

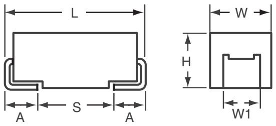

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
4	47	10	A	8	1.9	500	478-2381-1-ND	1.00	.87	.76	478-2381-2-ND	2,000	340.00/M	TPSA476K004R0500
	220	10	D	8	8.8	50	478-3310-1-ND†	4.40	3.83	3.35	478-3310-2-ND	500	720.50	TPSD227K004R0050
	330	10	D	8	13.2	35	478-2383-1-ND	14.65	12.75	11.14	478-2383-2-ND	500	2666.50	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	11.40	9.92	8.67	478-2384-2-ND	500	2075.00	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	9.00	7.83	6.84	478-2385-2-ND	500	1638.00	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	12.95	11.27	9.85	478-2386-2-ND	500	2357.00	TPSD687K004R0100
	680	10	D	14	27.2	45	478-3078-1-ND	12.24	10.65	9.31	478-3078-2-ND	500	2227.50	TPSD687K004R0045
6.3	10	10	A	6	0.6	1500	478-2388-1-ND	1.00	.87	.76	478-2388-2-ND	2,000	340.00/M	TPSA106K006R1500
	10	10	T	6	0.6	1000	478-4950-1-ND	1.60	1.40	1.22	478-4950-2-ND	2,500	544.00/M	TPST106K006R1000
	22	10	A	6	1.4	900	478-1754-1-ND†	.75	.66	.57	478-1754-2-ND	2,000	255.00/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	1.00	.87	.76	478-1755-2-ND	2,000	340.00/M	TPSA336K006R0600
	33	20	A	8	2.1	600	478-5228-1-ND	.65	.57	.50	478-5228-2-ND	2,000	221.00/M	TPSA336M006R0600
	47	10	A	10	2.8	800	478-3079-1-ND	.90	.79	.69	478-3079-2-ND	2,000	306.00/M	TPSA476K006R0800
	47	10	B	6	3	250	478-2389-1-ND†	1.25	1.09	.95	478-2389-2-ND	2,000	425.00/M	TPSB476K006R0250
	68	20	B	8	4.3	500	478-1761-1-ND	1.20	1.05	.92	478-1761-2-ND	2,000	408.00/M	TPSB686M006R0500
	68	10	W	6	4.3	125	478-3312-1-ND	4.00	3.48	3.04	478-3312-2-ND	1,000	1310.00	TPSW686K006R0125
	100	10	B	10	6.3	250	478-3080-1-ND	1.13	.98	.86	478-3080-2-ND	2,000	383.00/M	TPSB107K006R0250
	100	10	B	10	6.3	400	478-4976-1-ND	.85	.74	.65	478-4976-2-ND	2,000	289.00/M	TPSB107K006R0400
	100	20	B	10	6.3	250	478-4978-1-ND	1.13	.98	.86	478-4978-2-ND	2,000	383.00/M	TPSB107M006R0250
	100	10	C	6	6.3	150	478-1764-1-ND	2.00	1.74	1.52	478-1764-2-ND	500	364.00	TPSC107K006R0150
	100	10	C	6	6.3	75	478-3313-1-ND†	3.20	2.79	2.44	478-3313-2-ND	500	524.00	TPSC107K006R0075
	100	20	C	6	6.3	150	478-4090-1-ND	2.40	2.09	1.83	478-4090-2-ND	500	364.00	TPSC107M006R0150
	150	10	C	6	9.5	150	478-2390-1-ND	2.65	2.31	2.02	478-2390-2-ND	500	482.50	TPSC157K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	1.85	1.61	1.41	478-1768-2-ND	500	336.50	TPSC227K006R0125
	220	10	C	8	13.9	70	478-3081-1-ND	2.16	1.88	1.65	478-3081-2-ND	500	393.00	TPSC227K006R0070
	220	20	C	8	13.9	125	478-5239-1-ND	1.83	1.59	1.39	478-5239-2-ND	500	332.00	TPSC227M006R0125
	220	10	D	8	13.2	100	478-3362-1-ND	4.20	3.66	3.20	478-3362-2-ND	500	764.50	TPSD227K006R0100
	220	20	D	8	13.2	100	478-3061-1-ND	3.50	3.05	2.66	478-3061-2-ND	500	637.00	TPSD227M006R0100
	330	20	C	12	19.8	80	478-5636-1-ND ***NEW!***	2.70	2.35	2.06	478-5636-2-ND ***NEW!***	500	491.50	TPSC337M006R0080
	330	20	C	12	19.8	100	478-5637-1-ND ***NEW!***	2.60	2.27	1.98	478-5637-2-ND ***NEW!***	500	473.00	TPSC337M006R0100
	330	10	D	8	20.8	45	478-3314-1-ND	14.40	12.53	10.95	478-3314-2-ND	500	2358.50	TPSD337K006R0045
	330	20	D	8	20.8	45	478-4115-1-ND	14.25	12.40	10.83	478-4115-2-ND	500	2047.50	TPSD337M006R0045
	330	10	D	8	20.8	50	478-4114-1-ND ***NEW!***	4.50	3.92	3.42	478-4114-2-ND ***NEW!***	500	819.00	TPSD337K006R0050
	330	10	E	8	20.8	100	478-4135-1-ND	10.40	9.05	7.91	478-4135-2-ND	400	1287.20	TPSE337K006R0100
	330	20	E	8	20.8	100	478-1804-1-ND	9.50	8.27	7.22	478-1804-2-ND	400	1383.20	TPSE337M006R0100
	330	10	Y	12	20.8	100	478-4698-1-ND	6.25	5.44	4.75	478-4698-2-ND	1,000	2275.00	TPSY337K006R0100
	330	20	Y	12	20.8	150	478-4166-1-ND	6.15	5.36	4.68	478-4166-2-ND	1,000	1911.00	TPSY337M006R0150
	470	10	D	12	29.6	45	478-3082-1-ND	7.11	6.19	5.41	478-3082-2-ND	500	1294.00	TPSD477K006R0045
	470	10	D	12	29.6	100	478-3315-1-ND†	7.30	6.36	5.55	478-3315-2-ND	500	1195.50	TPSD477K006R0100
	470	20	D	12	29.6	100	478-1790-1-ND	6.95	6.05	5.29	478-1790-2-ND	500	1265.00	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	5.65	4.92	4.30	478-1791-2-ND	500	1028.50	TPSD477M006R0200
	470	10	E	10	29.6	45	478-3316-1-ND†	13.35	11.62	10.15	478-3316-2-ND	400	1749.20	TPSE477K006R0045
	470	20	E	10	29.6	50	478-4147-1-ND	13.13	11.43	9.98	478-4147-2-ND	400	1565.20	TPSE477M006R0050
	470	10	V	10	29.6	55	478-4161-1-ND	15.25	13.27	11.59	478-4161-2-ND	400	1885.60	TPSV477K006R0055
	470	10	Y	20	28.2	150	478-4707-1-ND	6.25	5.44	4.75	478-4707-2-ND	1,000	2275.00	TPSY477K006R0150
	680	10	E	10	42.8	45	478-1809-1-ND	14.50	12.62	11.02	478-1809-2-ND	400	2111.20	TPSE687K006R0045
	680	10	V	14	42.8	35	478-3083-1-ND	13.73	11.95	10.44	478-3083-2-ND	400	1998.40	TPSV687K006R0035
	680	20	V	14	42.8	35	478-4165-1-ND	15.00	13.05	11.40	478-4165-2-ND	400	1820.00	TPSV687M006R0035
	1000	20	E	20	60	100	478-6138-1-ND ***NEW!***	19.00	16.53	14.44	478-6138-2-ND ***NEW!***	400	2766.40	TPSE108M006R0100
10	2.2	10	A	6	0.5	1800	478-1753-1-ND	.75	.66	.57	478-1753-2-ND	2,000	255.00/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND†	1.00	.87	.76	478-2391-2-ND	2,000	340.00/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	1.00	.87	.76	478-2392-2-ND	2,000	340.00/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.70	.61	.54	478-1751-2-ND	2,000	238.00/M	TPSA106K010R0900
	10	10	A	6	1	1800	478-3317-1-ND†	1.00	.87	.76	478-3317-2-ND	2,000	306.00/M	TPSA106K010R1800
	10	20	A	6	1	1800	478-4086-1-ND	.38	.33	.29	478-4086-2-ND	2,000	128.00/M	TPSA106M010R1800
	10	10	T	6	1	1000	478-4153-1-ND	1.60	1.40	1.22	478-4153-2-ND	2,500	462.00/M	TPST106K010R1000
	15	10	A	6	1.5	1000	478-1752-1-ND	.75	.66	.57	478-1752-2-ND	2,000	255.00/M	TPSA156K010R1000
	22	10	B	6	2.2	400	478-2393-1-ND	1.25	1.09	.95	478-2393-2-ND	2,000	425.00/M	TPSB226K010R0400
	22	10	B	6	2.2	500	478-5232-1-ND	1.00	.87	.76	478-5232-2-ND	2,000	340.00/M	TPSB226K010R0500
	22	10	B	6	2.2	700	478-3318-1-ND†	1.25	1.09	.95	478-3318-2-ND	2,000	383.00/M	TPSB226K010R0700
	22	20	B	6	2.2	700	478-4088-1-ND	1.20	1.05	.92	478-4088-2-ND	2,000	333.00/M	TPSB226M010R0700
	33	10	B	6	3.3	425	478-1759-1-ND	1.20	1.05	.92	478-1759-2-ND	2,000	408.00/M	TPSB336K010R0425
	33	10	C	6	3.3	150	478-3319-1-ND	2.65	2.31	2.02	478-3319-2-ND	500	434.00	TPSC336K010R0150
	33	10	C	6	3.3	375	478-1770-1-ND	2.00	1.74	1.52	478-1770-2-ND	500	364.00	TPSC336K010R0375
	47	10	B	8	4.7	250	478-3085-1-ND	1.13	.98	.86	478-3085-2-ND	2,000	383.00/M	TPSB476K010R0250
	47	10	B	8	4.7	500	478-4089-1-ND	1.25	1.09	.95	478-4089-2-ND	2,000	340.00/M	TPSB476K010R0500
	47	20	B	8	4.7	500	478-5234-1-ND	1.20	1.05	.92	478-5234-2-ND	2,000	408.00/M	TPSB476M010R0500
	47	10	B	8	4.7	650	478-1760-1-ND	1.25	1.09	.95	478-1760-2-ND	2,000	425.00/M	TPSB476K010R0650
	47	10	C	6	4.7	350	478-4093-1-ND	2.10	1.83	1.60	478-4093-2-ND	500	325.00	TPSC476K010R0350
	47	20	C	6	4.7	350	478-3059-1-ND	1.75	1.53	1.33	478-3059-2-ND	500	318.50	TPSC476M010R0350
	68	10	B	8	6.8	600	478-3084-1-ND	1.13	.98	.86	478-3084-2-ND	2,000	383.00/M	TPSB686K010R0600
	100	20	B	8	10	400	478-5231-1-ND	1.50	1.31	1.14	478-5231-2-ND	2,000	510.00/M	TPSB107M010R0400
	100	10	C	8	10	75	478-3086-1-ND†	2.48	2.16	1.89	478-3086-2-ND	500	450.50	TPSC107K010R0075
	100	20	C	8	10	75	478-5236-1-ND	2.75	2.40	2.09	478-5236-2-ND	500	500.50	TPSC107M010R0075
	100	10	C	8	10	100	478-1765-1-ND	1.88	1.64	1.43	478-1765-2-ND	500	341.50	TPSC107K010R0100
	100	10	C	8	10	200	478-3357-1-ND	2.45	2.14	1.87	478-3357-2-ND	500	446.00	TPSC107K010R0200
	100	20	C	8	10	200	478-5237-1-ND	2.45	2.14	1.87	478-5237-2-ND	500	446.00	TPSC107M010R0200
	100	20	C	8	10	100	478-4091-1-ND	2.50	2.18	1.90	478-4091-2-ND	5,000	560.00/M	TPSC107M010R0100
	100	10	D	6	10	50	478-3320-1-ND†	5.35	4.66	4.07	478-3320-2-ND	500	876.50	TPSD107K010R0050
	100	10	D	6	10	65	478-1776-1-ND	3.90	3.40	2.97	478-1776-2-ND	500	710.00	TPSD107K010R0065
	100	10	D	6	10	100	478-1777-1-ND	2.35	2.05	1.79	478-1777-2-ND	500	427.50	TPSD107K010R0100
	100	20	D	6	10	50	478-4095-1-ND	5.00	4.35	3.80	478-4095-2-ND	500	773.50	TPSD107M010R0050
	100	20	D	6	10	65	478-4096-1-ND	4.50	3.92	3.42	478-4096-2-ND	500	637.00	TPSD107M010R0065
	100	10	D	6	10	80	478-5242-1-ND	3.00	2.61	2.28	478-5242-2-ND	500	546.00	TPSD107K010R0080
	100	20	D	6	10	80	478-4097-1-ND	4.00	3.48	3.04	478-4097-2-ND	500	619.00	TPSD107M010R0080
	100	20	D	6	10	100	478-1779-1-ND	2.35	2.05	1.79	478-1779-2-ND	500	427.50	TPSD107M010R0100

(Continued)

Rated Voltage (V)	Capaci- tance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
10	150	10	D	6	15	50	478-3321-1-ND	5.75	5.01	4.37	478-3321-2-ND	500	942.00	TPSD157K010R0050
	150	10	D	8	15	100	478-1781-1-ND	3.50	3.05	2.66	478-1781-2-ND	500	637.00	TPSD157K010R0100
	150	20	D	6	15	50	478-4102-1-ND	4.00	3.48	3.04	478-4102-2-ND	500	619.00	TPSD157M010R0050
	150	20	D	8	15	100	478-4103-1-ND	4.00	3.48	3.04	478-4103-2-ND	500	637.00	TPSD157M010R0100
	220	10	D	8	22	50	478-4108-1-ND	9.75	8.49	7.41	478-4108-2-ND	500	1501.50	TPSD227K010R0050
	220	10	D	8	22	100	478-3322-1-ND†	8.25	7.18	6.27	478-3322-2-ND	500	1351.50	TPSD227K010R0100
	220	10	D	8	22	150	478-1784-1-ND	6.75	5.88	5.13	478-1784-2-ND	500	1228.50	TPSD227K010R0150
	220	20	D	8	22	150	478-5244-1-ND	2.75	2.40	2.09	478-5244-2-ND	500	500.50	TPSD227M010R0150
	220	20	D	8	22	50	478-4109-1-ND	9.60	8.36	7.30	478-4109-2-ND	500	1483.50	TPSD227M010R0050
	220	20	D	8	22	100	478-4110-1-ND	5.00	4.35	3.80	478-4110-2-ND	500	773.50	TPSD227M010R0100
	220	10	E	8	22	50	478-3323-1-ND†	12.75	11.10	9.69	478-3323-2-ND	400	1670.80	TPSE227K010R0050
	220	10	E	8	22	100	478-1799-1-ND	9.50	8.27	7.22	478-1799-2-ND	400	1383.20	TPSE227K010R0100
	220	20	E	8	22	100	478-4130-1-ND	9.90	8.62	7.53	478-4130-2-ND	400	910.00	TPSE227M010R0100
	220	10	Y	10	22	100	478-5408-1-ND	6.25	5.44	4.75	478-5408-2-ND	1,000	2275.00	TPSY227K010R0100
	330	10	D	8	33	50	478-3087-1-ND	12.11	10.54	9.20	478-3087-2-ND	500	2203.00	TPSD337K010R0050
	330	10	D	8	33	100	478-1787-1-ND	6.85	5.96	5.21	478-1787-2-ND	500	1246.50	TPSD337K010R0100
	330	20	D	8	33	100	478-4116-1-ND	12.50	10.88	9.50	478-4116-2-ND	500	1183.00	TPSD337M010R0100
	330	20	D	8	33	150	478-4117-1-ND	11.25	9.79	8.55	478-4117-2-ND	500	1740.50	TPSD337M010R0150
	330	10	E	8	33	40	478-4136-1-ND	12.95	11.27	9.85	478-4136-2-ND	400	1885.60	TPSE337K010R0040
	330	10	E	8	33	60	478-4138-1-ND	14.75	12.84	11.21	478-4138-2-ND	400	1638.00	TPSE337K010R0060
	330	10	E	8	33	100	478-4139-1-ND	13.25	11.53	10.07	478-4139-2-ND	400	1456.00	TPSE337K010R0100
	330	20	E	8	33	60	478-4141-1-ND	14.00	12.18	10.64	478-4141-2-ND	400	1456.00	TPSE337M010R0060
	330	20	E	8	33	100	478-4142-1-ND	12.75	11.10	9.69	478-4142-2-ND	400	1578.00	TPSE337M010R0100
	330	10	V	10	33	60	478-4158-1-ND	15.25	13.27	11.59	478-4158-2-ND	400	1885.60	TPSV337K010R0060
	330	20	V	10	33	100	478-4160-1-ND	13.95	12.14	10.61	478-4160-2-ND	400	1274.00	TPSV337M010R0100
	470	10	E	10	47	45	478-3088-1-ND	14.85	12.92	11.29	478-3088-2-ND	400	2162.00	TPSE477K010R0045
	470	10	E	10	47	100	478-1807-1-ND	14.90	12.97	11.33	478-1807-2-ND	400	2169.60	TPSE477K010R0100
	470	20	E	10	47	45	478-4148-1-ND	16.25	14.14	12.35	478-4148-2-ND	400	2011.20	TPSE477M010R0045
	470	20	E	10	47	50	478-4149-1-ND	15.75	13.71	11.97	478-4149-2-ND	400	1949.20	TPSE477M010R0050
	470	20	E	10	47	100	478-4150-1-ND	14.75	12.84	11.21	478-4150-2-ND	400	1820.00	TPSE477M010R0100
	470	10	V	10	47	60	478-4162-1-ND	15.40	13.40	11.71	478-4162-2-ND	400	1906.00	TPSV477K010R0060
16	2.2	10	A	6	0.5	1800	478-2394-1-ND	1.00	.87	.76	478-2394-2-ND	2,000	340.00/M	TPSA225K016R1800
	3.3	10	A	6	0.5	3500	478-2395-1-ND	1.00	.87	.76	478-2395-2-ND	2,000	340.00/M	TPSA335K016R3500
	4.7	10	A	6	0.8	2000	478-5229-1-ND	1.00	.87	.76	478-5229-2-ND	2,000	340.00/M	TPSA475K016R2000
	4.7	10	B	6	0.8	1500	478-2396-1-ND	1.25	1.09	.95	478-2396-2-ND	2,000	425.00/M	TPSB475K016R1500
	6.8	10	A	6	1.1	1500	478-3089-1-ND	.90	.79	.69	478-3089-2-ND	2,000	306.00/M	TPSA685K016R1500
	6.8	10	B	6	1.1	1200	478-2397-1-ND	1.25	1.09	.95	478-2397-2-ND	2,000	425.00/M	TPSB685K016R1200
	10	10	B	6	1.6	500	478-5230-1-ND	1.25	1.09	.95	478-5230-2-ND	2,000	425.00/M	TPSB106K016R0500
	10	10	B	6	1.6	800	478-2398-1-ND†	1.25	1.09	.95	478-2398-2-ND	2,000	425.00/M	TPSB106K016R0800
	10	20	B	6	1.6	800	478-4975-1-ND	.80	.70	.61	478-4975-2-ND	2,000	272.00/M	TPSB106M016R0800
	10	10	C	6	1.6	500	478-5235-1-ND	.75	.66	.57	478-5235-2-ND	500	136.50	TPSC106K016R0500
	15	10	B	6	2.4	800	478-1757-1-ND	1.00	.87	.76	478-1757-2-ND	2,000	340.00/M	TPSB156K016R0800
	22	10	B	6	3.5	600	478-1758-1-ND	1.00	.87	.76	478-1758-2-ND	2,000	340.00/M	TPSB226K016R0600
	22	10	C	6	3.5	375	478-1767-1-ND†	.88	.77	.67	478-1767-2-ND	500	159.50	TPSC226K016R0375
	22	20	C	6	3.5	375	478-4092-1-ND	2.00	1.74	1.52	478-4092-2-ND	500	309.50	TPSC226M016R0375
	33	10	B	8	5.3	350	478-3090-1-ND	1.13	.98	.86	478-3090-2-ND	2,000	383.00/M	TPSB336K016R0350
	33	10	C	6	5.3	300	478-1771-1-ND	1.75	1.53	1.33	478-1771-2-ND	500	318.50	TPSC336K016R0300
	33	20	C	6	5.3	300	478-5754-1-ND ***NEW!***	1.75	1.53	1.33	478-5754-2-ND ***NEW!***	500	318.50	TPSC336M016R0300
	33	10	W	6	5.3	175	478-3324-1-ND	4.00	3.48	3.04	478-3324-2-ND	1,000	1310.00	TPSW336K016R0175
	47	10	C	6	7.5	350	478-1773-1-ND†	2.55	2.22	1.94	478-1773-2-ND	500	464.00	TPSC476K016R0350
	47	20	C	6	7.5	350	478-5241-1-ND	1.50	1.31	1.14	478-5241-2-ND	500	273.00	TPSC476M016R0350
	47	10	D	6	7.5	80	478-3325-1-ND	4.00	3.48	3.04	478-3325-2-ND	500	655.00	TPSD476K016R0080
	47	10	D	6	7.5	150	478-1788-1-ND	3.90	3.40	2.97	478-1788-2-ND	500	710.00	TPSD476K016R0150
	47	10	D	6	7.5	200	478-4118-1-ND	3.80	3.31	2.89	478-4118-2-ND	500	582.50	TPSD476K016R0200
	47	20	D	6	7.5	150	478-4119-1-ND	3.70	3.22	2.82	478-4119-2-ND	500	546.00	TPSD476M016R0150
	68	10	C	6	10.9	125	478-3091-1-ND	2.66	2.31	2.02	478-3091-2-ND	500	483.00	TPSC686K016R0125
	68	10	C	6	10.9	200	478-1774-1-ND	1.44	1.25	1.10	478-1774-2-ND	500	261.00	TPSC686K016R0200
	100	10	C	6	16	200	478-5262-1-ND	3.61	3.14	2.74	478-5262-2-ND	500	656.00	TPSC107K016R0200
	100	10	D	6	16	60	478-4977-1-ND	4.38	3.82	3.33	478-4977-2-ND	500	797.00	TPSD107K016R0060
	100	10	D	6	16	125	478-1778-1-ND	4.20	3.66	3.20	478-1778-2-ND	500	764.50	TPSD107K016R0125
	100	10	D	6	16	150	478-3358-1-ND	4.20	3.66	3.20	478-3358-2-ND	500	764.50	TPSD107K016R0150
	100	20	D	6	16	60	478-4098-1-ND	4.75	4.14	3.61	478-4098-2-ND	500	735.00	TPSD107M016R0060
	100	20	D	6	16	125	478-4099-1-ND	4.00	3.48	3.04	478-4099-2-ND	500	619.00	TPSD107M016R0125
	100	20	D	6	16	150	478-5243-1-ND	1.50	1.31	1.14	478-5243-2-ND	500	273.00	TPSD107M016R0150
	100	10	E	6	16	55	478-4124-1-ND	13.75	11.97	10.45	478-4124-2-ND	400	1674.40	TPSE107K016R0055
	100	10	E	6	16	100	478-1793-1-ND	9.25	8.05	7.03	478-1793-2-ND	400	1346.80	TPSE107K016R0100
	100	10	E	6	16	125	478-1794-1-ND	8.50	7.40	6.46	478-1794-2-ND	400	1237.60	TPSE107K016R0125
	100	20	E	6	16	125	478-5757-1-ND ***NEW!***	5.00	4.35	3.80	478-5757-2-ND ***NEW!***	400	728.00	TPSE107M016R0125
	100	20	E	6	16	55	478-4125-1-ND	13.35	11.62	10.15	478-4125-2-ND	400	1638.00	TPSE107M016R0055
	100	20	E	6	16	100	478-4126-1-ND	9.75	8.49	7.41	478-4126-2-ND	400	1201.20	TPSE107M016R0100
	150	10	D	6	24	60	478-3092-1-ND	9.68	8.42	7.36	478-3092-2-ND	500	1761.00	TPSD157K016R0060
	150	10	D	6	24	100	478-3326-1-ND†	10.25	8.92	7.79	478-3326-2-ND	500	1679.00	TPSD157K016R0100
	150	10	D	6	24	150	478-1782-1-ND	5.00	4.35	3.80	478-1782-2-ND	500	910.00	TPSD157K016R0150
	220	10	E	10	35.2	100	478-3093-1-ND	9.45	8.23	7.19	478-3093-2-ND	400	1376.00	TPSE227K016R0100
	220	10	E	10	35.2	150	478-1800-1-ND	6.25	5.44	4.75	478-1800-2-ND	400	910.00	TPSE227K016R0150
	220	20	E	10	35.2	100	478-4131-1-ND	10.40	9.05	7.91	478-4131-2-ND	400	1287.20	TPSE227M016R0100
	220	10	V	8	35.2	50	478-3327-1-ND	16.10	14.01	12.24	478-3327-2-ND	400	2109.60	TPSV227K016R0050
	220	10	V	8	35.2	75	478-3328-1-ND†	14.18	12.34	10.78	478-3328-2-ND	400	2064.00	TPSV227K016R0075
	220	20	V	8	35.2	75	478-4157-1-ND ***NEW!***	8.75	7.62	6.65	478-4157-2-ND ***NEW!***	400	1274.00	TPSV227M016R0075
20	1	10	A	4	0.5	3000	478-2399-1-ND	1.00	.87	.76	478-2399-2-ND	2,000	340.00/M	TPSA105K020R3000
	2.2	10	A	6	0.5	3000	478-2400-1-ND	1.00	.87	.76	478-2400-2-ND	2,000	340.00/M	TPSA225K020R3000
	3.3	10	A	6	0.7	2500	478-2401-1-ND	1.00	.87	.76	478-2401-2-ND	2,000	340.00/M	TPSA335K020R2500
	4.7	10	A	6	0.9	1800	478-4974-1-ND	.68	.59	.52	478-4974-2-ND	2,000	230.00/M	TPSA475K020R1800
	4.7	10	B	6	0.9	1000	478-2402-1-ND	1.25	1.09	.95	478-2402-2-ND	2,000	425.00/M	TPSB475K020R1000
	6.8	10	A	6	1.4	1000	478-3094-1-ND	.90	.79	.69	478-3094-2-ND	2,000	306.00/M	TPSA685K020R1000
	6.8	10	B	6	1.4	1000	478-2403-1-ND	1.25	1.09	.95	478-2403-2-ND	2,000	425.00/M	TPSB685K020R1000
	10	10	B	6	2	1000	478-1756-1-ND	1.25	1.09	.95	478-1756-2-ND	2,000	425.00/M	TPSB106K020R1000
	10	20	B	6	2	1000	478-4087-1-ND	1.20	1.05	.92	478-4087-2-ND	2,000	340.00/M	TPSB106M020R1000
	15	10	C	6	3	450	478-1766-1-ND	2.10	1.83	1.60	478-1766-2-ND	500	382.00	TPSC156K020R0450
	22	10	B	6	4.4	400	478-3095-1-ND	1.13	.98	.86	478-3095-2-ND	2,000	383.00/M	TPSB226K020R0400
	22	10	C	6	4.4	150	478-2404-1-ND	2.60	2.27	1.98	478-2404-2-ND	500	442.00	TPSC226K020R0150
	22	20	C	6	4.4	150	478-5238-1-ND	2.50	2.18	1.90	478-5238-2-ND	500	455.00	TPSC226M020R0150
	33	10	C	6	6.6	300	478-3096-1-ND	2.05	1.79	1.56	478-3096-2-ND	500	372.50	TPSC336K020R0300
	33	10	D	6	6.6	200	478-1785-1-ND	3.90	3.40	2.97	478-1785-2-ND	500	710.00	TPSD336K020R0200
	33	20	D	6	6.6	200	478-4111-1-ND	3.70	3.22	2.82	478-4111-2-ND	500	546.00	TPSD336M020R0200
	47	10	D	6	9.4	100	478-3329-1-ND	3.75	3.27	2.85	478-3329-2-ND	500	614.50	TPSD476K020R0100
	47	10	E	6	9.4	125	478-1805-1-ND	7.75	6.75	5.89	478-1805-2-ND	400	1128.40	TPSE476K020R0125
	47	10	E	6	9.4	150	478-1806-1-ND	5.45	4.74	4.14	478-1806-2-ND	400	792.80	TPSE476K020R0150
	47	20	E	6	9.4	150	478-5758-1-ND ***NEW!***	4.50	3.92	3.42	478-5758-2-ND ***NEW!***	400	655.20	TPSE476M020R0150
	68	10	D	6	13.6	70	478-4122-1-ND	5.50	4.79	4.18	478-4122-2-ND	500	851.00	TPSD686K020R0070
	68	10	D	6	13.6	300	478-1792-1-ND	3.65	3.18	2.78	478-1792-2-ND	500	664.50	TPSD686K020R0300
	68	10	E	6	13.6	150	478-1808-1-ND	9.00	7.83	6.84	478-1808-2-ND	400	1310.40	TPSE686K020R0150
	68	20	E	6	13.6	150	478-4151-1-ND	9.75	8.49	7.41	478-4151-2-ND	400	364.00	TPSE686M020R0150

(Continued)

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
20	100	10	D	6	20	85	478-3097-1-ND	3.83	3.33	2.91	478-3097-2-ND	500	696.00	TPSD107K020R0085
	100	20	D	6	20	85	478-6066-1-ND ***NEW!***	4.20	3.66	3.20	478-6066-2-ND ***NEW!***	500	764.50	TPSD107M020R0085
	100	10	E	6	20	100	478-3098-1-ND	13.73	11.95	10.44	478-3098-2-ND	400	1998.40	TPSE107K020R0100
	100	10	E	6	20	150	478-1795-1-ND†	5.75	5.01	4.37	478-1795-2-ND	400	837.20	TPSE107K020R0150
	100	20	E	6	20	150	478-4127-1-ND	14.75	12.84	11.21	478-4127-2-ND	400	728.00	TPSE107M020R0150
	100	10	V	8	20	60	478-3330-1-ND†	17.00	14.79	12.92	478-3330-2-ND	400	2227.60	TPSV107K020R0060
	100	10	V	8	20	85	478-4154-1-ND	16.75	14.58	12.73	478-4154-2-ND	400	1456.00	TPSV107K020R0085
	100	20	V	8	20	60	478-4155-1-ND	16.50	14.36	12.54	478-4155-2-ND	400	2042.00	TPSV107M020R0060
	100	20	V	8	20	85	478-4156-1-ND	16.25	14.14	12.35	478-4156-2-ND	400	1892.80	TPSV107M020R0085
	150	10	V	8	30	80	478-3099-1-ND	14.27	12.42	10.85	478-3099-2-ND	400	2076.80	TPSV157 K020R0080
25	.68	10	A	4	0.5	6000	478-2405-1-ND	1.00	.87	.76	478-2405-2-ND	2,000	340.00/M	TPSA684K025R6000
	1.5	10	A	6	0.5	3000	478-2406-1-ND	1.00	.87	.76	478-2406-2-ND	2,000	340.00/M	TPSA155K025R3000
	3.3	10	A	6	0.8	1000	478-3100-1-ND	.90	.79	.69	478-3100-2-ND	2,000	306.00/M	TPSA335K025R1000
	3.3	10	B	6	0.8	2000	478-2407-1-ND	1.25	1.09	.95	478-2407-2-ND	2,000	425.00/M	TPSB335K025R2000
	4.7	10	B	6	1.2	700	478-5815-1-ND ***NEW!***	1.25	1.09	.95	478-5815-2-ND ***NEW!***	2,000	425.00/M	TPSB475K025R0700
	4.7	10	B	6	1.2	900	478-2408-1-ND	1.25	1.09	.95	478-2408-2-ND	2,000	425.00/M	TPSB475K025R0900
	4.7	10	B	6	1.2	1500	478-5233-1-ND	1.15	1.00	.88	478-5233-2-ND	2,000	391.00/M	TPSB475K025R1500
	6.8	10	B	6	1.7	700	478-3101-1-ND	1.13	.98	.86	478-3101-2-ND	2,000	383.00/M	TPSB685K025R0700
	6.8	10	C	6	1.7	600	478-2409-1-ND	1.60	1.40	1.22	—	—	—	TPSC685K025R0600
	10	20	B	6	2.5	1800	478-5409-1-ND	1.20	1.05	.92	478-5409-2-ND	2,000	408.00/M	TPSB106M025R1800
	10	10	C	6	2.5	300	478-3360-1-ND	2.60	2.27	1.98	478-3360-2-ND	500	473.00	TPSC106K025R0300
	10	20	C	6	2.5	300	478-5816-1-ND ***NEW!***	2.00	1.74	1.52	478-5816-2-ND ***NEW!***	500	364.00	TPSC106M025R0300
	10	10	C	6	2.5	500	478-1762-1-ND†	.88	.77	.67	478-1762-2-ND	500	159.50	TPSC106K025R0500
	10	20	C	6	2.5	500	478-1763-1-ND	.88	.77	.67	478-1763-2-ND	500	159.50	TPSC106M025R0500
	22	10	C	6	5.5	275	478-3102-1-ND	2.16	1.88	1.65	478-3102-2-ND	500	393.00	TPSC226K025R0275
	22	10	D	6	5.5	100	478-3331-1-ND†	4.20	3.66	3.20	478-3331-2-ND	500	688.00	TPSD226K025R0100
	22	10	D	6	5.5	200	478-1783-1-ND	3.90	3.40	2.97	478-1783-2-ND	500	710.00	TPSD226K025R0200
	22	20	D	6	5.5	200	478-4106-1-ND	3.70	3.22	2.82	478-4106-2-ND	500	546.00	TPSD226M025R0200
	33	10	D	6	8.3	100	478-3332-1-ND	4.35	3.79	3.31	478-3332-2-ND	500	712.50	TPSD336K025R0100
	33	20	D	6	8.3	100	478-5818-1-ND ***NEW!***	3.75	3.27	2.85	478-5818-2-ND ***NEW!***	500	682.50	TPSD336M025R0100
	33	10	D	6	8.3	200	478-3359-1-ND	4.05	3.53	3.08	478-3359-2-ND	500	737.00	TPSD336K025R0200
	33	10	D	6	8.3	300	478-1786-1-ND	3.75	3.27	2.85	478-1786-2-ND	500	682.50	TPSD336K025R0300
	33	20	D	6	8.3	200	478-3062-1-ND	3.95	3.44	3.01	478-3062-2-ND	500	719.00	TPSD336M025R0200
	33	10	E	6	8.3	175	478-4132-1-ND	5.50	4.79	4.18	478-4132-2-ND	400	680.80	TPSE336K025R0175
	33	10	E	6	8.3	300	478-1801-1-ND	6.75	5.88	5.13	478-1801-2-ND	400	982.80	TPSE336K025R0300
	33	20	E	6	8.3	200	478-1803-1-ND	6.80	5.92	5.17	478-1803-2-ND	400	990.00	TPSE336M025R0200
	33	20	E	6	8.3	300	478-4134-1-ND	9.75	8.49	7.41	478-4134-2-ND	400	910.00	TPSE336M025R0300
	47	10	D	6	11.8	125	478-3103-1-ND	6.26	5.45	4.76	478-3103-2-ND	500	1138.50	TPSD476K025R0125
	47	10	D	6	11.8	150	478-1789-1-ND	6.75	5.88	5.13	478-1789-2-ND	500	1228.50	TPSD476K025R0150
	47	10	D	6	11.8	250	478-3333-1-ND†	4.05	3.53	3.08	478-3333-2-ND	500	663.50	TPSD476K025R0250
	47	20	D	6	11.8	250	478-4120-1-ND	3.95	3.44	3.01	478-4120-2-ND	500	611.00	TPSD476M025R0250
	47	10	E	6	8.3	100	478-4143-1-ND	12.10	10.53	9.20	478-4143-2-ND	400	1497.60	TPSE476K025R0100
	47	20	E	6	8.3	100	478-4144-1-ND	12.00	10.44	9.12	478-4144-2-ND	400	1456.00	TPSE476M025R0100
	68	10	E	6	17	125	478-2410-1-ND	10.25	8.92	7.79	478-2410-2-ND	400	1492.40	TPSE686K025R0125
	68	10	E	6	17	200	478-3334-1-ND†	8.50	7.40	6.46	478-3334-2-ND	400	1114.00	TPSE686K025R0200
	68	20	E	6	17	125	478-4152-1-ND	10.03	8.73	7.63	478-4152-2-ND	400	1237.60	TPSE686M025R0125
	68	10	V	6	17	95	478-3335-1-ND†	16.75	14.58	12.73	478-3335-2-ND	400	2194.80	TPSV686K025R0095
	68	20	V	6	17	95	478-4163-1-ND	16.25	14.14	12.35	478-4163-2-ND	400	2002.00	TPSV686M025R0095
	68	20	V	6	17	150	478-4164-1-ND	15.25	13.27	11.59	478-4164-2-ND	400	1887.20	TPSV686M025R0150
	100	10	V	8	25	100	478-3104-1-ND	15.08	13.12	11.46	478-3104-2-ND	400	2194.80	TPSV107K025R0100
35	1	10	A	4	0.5	3000	478-3336-1-ND†	1.00	.87	.76	478-3336-2-ND	2,000	306.00/M	TPSA105K035R3000
	1	10	B	4	0.5	2000	478-2412-1-ND	1.25	1.09	.95	478-2412-2-ND	2,000	425.00/M	TPSB105K035R2000
	1.5	10	B	6	0.5	2500	478-2413-1-ND	1.25	1.09	.95	478-2413-2-ND	2,000	425.00/M	TPSB155K035R2500
	2.2	10	A	6	0.8	1500	478-3105-1-ND	.90	.79	.69	478-3105-2-ND	2,000	306.00/M	TPSA225K035R1500
	2.2	10	B	6	0.8	2000	478-2414-1-ND	1.25	1.09	.95	478-2414-2-ND	2,000	425.00/M	TPSB225K035R2000
	3.3	10	C	6	1.2	700	478-1769-1-ND	1.95	1.70	1.49	478-1769-2-ND	500	355.00	TPSC335K035R0700
	4.7	10	B	6	1.2	700	478-3106-1-ND	1.13	.98	.86	478-3106-2-ND	2,000	383.00/M	TPSB475K035R0700
	4.7	10	C	6	1.6	600	478-1772-1-ND	1.95	1.70	1.49	478-1772-2-ND	500	355.00	TPSC475K035R0600
	4.7	20	C	6	1.6	600	478-5240-1-ND	1.25	1.09	.95	478-5240-2-ND	500	227.50	TPSC475M035R0600
	4.7	10	D	6	1.6	700	478-4754-1-ND	6.15	5.36	4.68	478-4754-2-ND	500	1119.50	TPSD475K035R0700
	6.8	10	D	6	2.4	400	478-2415-1-ND	4.05	3.53	3.08	478-2415-2-ND	500	737.00	TPSD685K035R0400
	10	10	D	6	3.5	125	478-3337-1-ND	4.00	3.48	3.04	478-3337-2-ND	500	655.00	TPSD106K035R0125
	10	10	D	6	3.5	300	478-1775-1-ND	1.43	1.24	1.09	478-1775-2-ND	500	259.50	TPSD106K035R0300
	10	20	D	6	3.5	300	478-4094-1-ND	2.93	2.56	2.23	478-4094-2-ND	500	533.50	TPSD106M035R0300
	10	10	E	6	3.5	200	478-5755-1-ND ***NEW!***	6.69	5.82	5.09	478-5755-2-ND ***NEW!***	400	973.20	TPSE106K035R0200
	10	20	E	6	3.5	200	478-5756-1-ND ***NEW!***	5.25	4.57	3.99	478-5756-2-ND ***NEW!***	400	764.40	TPSE106M035R0200
	10	10	Y	6	3.5	250	478-4697-1-ND	6.25	5.44	4.75	478-4697-2-ND	1,000	2275.00	TPSY106K035R0250
	15	10	C	6	5.3	350	478-3107-1-ND	1.98	1.73	1.51	478-3107-2-ND	500	360.50	TPSC156K035R0350
	15	10	C	6	5.3	450	478-5817-1-ND ***NEW!***	2.00	1.74	1.52	478-5817-2-ND ***NEW!***	500	364.00	TPSC156K035R0450
	15	10	D	6	5.3	100	478-4100-1-ND	4.95	4.31	3.77	478-4100-2-ND	500	766.00	TPSD156K035R0100
	15	10	D	6	5.3	300	478-1780-1-ND	3.00	2.61	2.28	478-1780-2-ND	500	546.00	TPSD156K035R0300
	15	20	D	6	5.3	300	478-4101-1-ND	3.70	3.22	2.82	478-4101-2-ND	500	546.00	TPSD156M035R0300
	22	10	D	6	7.7	125	478-1796-1-ND†	9.75	8.49	7.41	478-1796-2-ND	400	1419.60	TPSE226K035R0125
	22	10	D	6	7.7	125	478-4105-1-ND	11.25	9.79	8.55	478-4105-2-ND	500	1729.00	TPSD226K035R0125
	22	10	D	6	7.7	200	478-3356-1-ND	10.00	8.70	7.60	478-3356-2-ND	500	1820.00	TPSD226K035R0200
	22	20	D	6	7.7	300	478-3060-1-ND	9.25	8.05	7.03	478-3060-2-ND	500	1683.50	TPSD226M035R0300
	22	20	D	6	7.7	400	478-4107-1-ND	6.00	5.22	4.56	478-4107-2-ND	500	910.00	TPSD226M035R0400
	22	10	E	6	7.7	200	478-1797-1-ND	9.25	8.05	7.03	478-1797-2-ND	400	1346.80	TPSE226K035R0200
	22	10	E	6	7.7	300	478-1798-1-ND	8.75	7.62	6.65	478-1798-2-ND	400	1274.00	TPSE226K035R0300
	22	20	E	6	7.7	200	478-4128-1-ND	9.75	8.49	7.41	478-4128-2-ND	400	1201.20	TPSE226M035R0200
	22	20	E	6	7.7	300	478-4129-1-ND	9.75	8.49	7.41	478-4129-2-ND	400	1206.80	TPSE226M035R0300
	33	10	D	6	11.6	200	478-3108-1-ND	9.00	7.83	6.84	478-3108-2-ND	500	1638.00	TPSD336K035R0200
	33	20	D	6	11.6	200	478-5839-1-ND ***NEW!***	4.75	4.14	3.61	478-5839-2-ND ***NEW!***	500	864.50	TPSD336M035R0200
	33	10	D	6	11.6	300	478-2416-1-ND†	9.25	8.05	7.03	478-2416-2-ND	500	1683.50	TPSD336K035R0300
	33	20	D	6	11.6	300	478-4113-1-ND	9.25	8.05	7.03	478-4113-2-ND	500	1431.00	TPSD336M035R0300
	33	10	E	6	11.6	1005	478-3338-1-ND	11.00	9.57	8.36	478-3338-2-ND	400	1441.60	TPSE336K035R0100
	47	10	E	6	16.5	200	478-3109-1-ND†	10.71	9.32	8.14	478-3109-2-ND	400	1559.20	TPSE476K035R0200
	47	10	E	6	16.5	250	478-2417-1-ND	11.65	10.14	8.86	478-2417-2-ND	400	1696.40	TPSE476K035R0250
	47	20	E	6	16.5	200	478-4145-1-ND	11.82	10.29	8.99	478-4145-2-ND	400	1274.00	TPSE476M035R0200
	68	20	V	6	23.8	150	478-3110-1-ND	16.20	14.10	12.32	478-3110-2-ND	400	2358.80	TPSV686M035R0150
50	.22	10	A	4	0.5	7000	478-2419-1-ND	1.00	.87	.76	478-2419-2-ND	2,000	340.00/M	TPSA224K050R7000
	2.2	10	D	6	1.1	1200	478-2420-1-ND	7.00	6.09	5.32	478-2420-2-ND	500	1274.00	TPSD225K050R1200
	3.3	10	D	6	1.7	800	478-2421-1-ND	7.25	6.31	5.51	478-2421-2-ND	500	1319.50	TPSD335K050R0800
	4.7	10	D	6	2.4	300	478-3339-1-ND	8.45	7.36	6.43	478-3339-2-ND	500	1384.00	TPSD475K050R0300
	4.7	10	D	6	2.4	500	478-2422-1-ND	7.25	6.31	5.51	478-2422-2-ND	500	1319.50	TPSD475K050R0500
	6.8	10	D	6	3.4	300	478-3111-1-ND	6.08	5.29	4.62	478-3111-2-ND	500	1105.50	TPSD685K050R0300
	6.8	10	D	6	3.4	500	478-2423-1-ND	4.50	3.92	3.42	478-2423-2-ND	500	819.00	TPSD685K050R0500
	6.8	10	D	6	3.4	600	478-4121-1-ND	4.25	3.70	3.23	478-4121-2-ND	500	657.50	TPSD685K050R0600
	10	10	E	6	5	400	478-3361-1-ND	7.50	6.53	5.70	478-3361-2-ND	400	1092.00	TPSE106K050R0400
	10	10	E	6	5	500	478-2424-1-ND	17.70	15.40	13.46	478-2424-2-ND	400	2577.20	TPSE106K050R0500
	15	10	E	6	7.5	250	478-3112-1-ND	16.88	14.69	12.83	478-3112-2-ND	400	2457.20	TPSE156K050R0250
	15	20	E	6	7.5	250	478-6016-1-ND ***NEW!***	7.50	6.53	5.70	478-6016-2-ND ***NEW!***	400	1092.00	TPSE156M050R0250
	15	10	V	6	7.5	250	478-4918-1-ND	18.75	16.32	14.25	478-4918-2-ND	400	2730.00	TPSV156K050R0250

† 478-3444-ND ***TPS Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook **$46.25**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AVX TAW Series – Fused Tantalum Capacitors

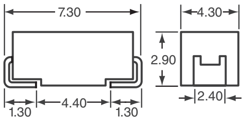

RoHS COMPLIANT

Digi-Reel®

The TAW fused tantalum capacitors offer protection from possible damaging short circuit failure modes. This is accomplished with an internal fuse using thin film technology that is in series with the capacitor. The AVX fused tantalum offers lower ESR limits than competitive fused tantalum capacitors.

Specifications:

- Operating Temperature Range: -55°C ~ 125°C • Fuse Continuous Current Capability: 0.75A

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	AVX Part No.
10	47	20	D	6	4.7	500	478-4744-1-ND	3.15	2.75	2.40	478-4744-2-ND	573.50	TAWD476M010R0500
	100	10	D	8	10	500	478-4747-1-ND	3.45	3.01	2.63	478-4747-2-ND	628.00	TAWD107K010R0500
	100	20	D	8	10	500	478-4748-1-ND	3.15	2.75	2.40	478-4748-2-ND	573.50	TAWD107M010R0500
25	10	10	D	6	2.5	600	478-4749-1-ND	3.70	3.22	2.82	478-4749-2-ND	673.50	TAWD106K025R0600
	10	20	D	6	2.5	600	478-4750-1-ND	3.35	2.92	2.55	478-4750-2-ND	609.50	TAWD106M025R0600
50	6.8	10	D	6	3.4	700	478-4751-1-ND	5.60	4.88	4.26	478-4751-2-ND	1019.00	TAWD685K050R0700
	6.8	20	D	6	3.4	700	478-4752-1-ND	5.10	4.44	3.88	478-4752-2-ND	928.00	TAWD685M050R0700

TLC and TLJ Series — Tantalum Solid Electrolytic Capacitors

Digi-Reel® RoHS COMPLIANT

The consumer TLJ and TLC Series of tantalum capacitors offer a high capacitance vs. voltage ratio based on stable MnO_2 electrode capacitors. They are suitable for a wide range of consumer electronic applications such as the latest portable handheld electronics, cellular phones, PDAs or other digital equipment and cameras • **Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20%

TLC SERIES:

Case Size	EIA Code	Dimensions - mm L	W	H	S (Min.)	Lt. (Min.)
K	0402	1.00	0.50	0.50	0.40	0.10
L	0603	1.60	0.85	0.85	0.55	0.15
R	0805	2.00	1.35	1.35	0.70	0.15
U	0805	2.00	1.35	0.60 Max.	0.70	0.15

Fig. 1 — TLC Series

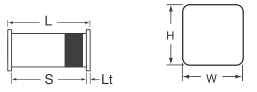

Fig. 2 — TLJ Series

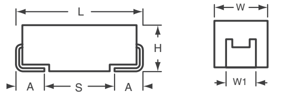

TLJ SERIES:

Case Size	EIA Code	Dimensions - mm L	W	H	W1	S (Min.)	A
A	3216-18	3.20	1.60	1.60	1.20	1.10	0.80
B	3528-21	3.50	2.80	1.90	2.20	1.40	0.80
F	6032-20	6.00	3.20	2.00	2.20	2.90	1.30
G	3216-16	3.20	1.60	1.50 Max.	1.20	1.10	0.80
H	3528-15	3.50	2.80	1.50 Max.	2.20	1.10	0.80
K	3216-10	3.20	1.60	1.00	1.20	1.10	0.80
N	2013-10	2.05	1.30	1.00	1.00	0.85	0.50
P	2012-15	2.05	1.35	1.50 Max.	1.00	0.85	0.50
R	2012-12	2.05	1.30	1.20 Max.	1.00	0.85	0.50
T	3528-12	3.50	2.80	1.20 Max.	2.20	1.40	0.80
W	6032-15	6.00	3.20	1.50 Max.	2.20	2.90	1.30
Y	7343-20	7.30	4.30	2.00 Max.	2.40	4.40	1.30

Fig.	Rated Voltage (V)	Capacitance (µF)	Case Size	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1	4	4.7	K	.5	15,000	478-3340-1-ND§	6.65	5.79	5.06	478-3340-2-ND	1,000	2300.00	TLCK475M004QTA
	4	6.8	K	0.5	15,000	478-5264-1-ND	6.65	5.79	5.06	478-5264-2-ND	10,000	1995.00/M	TLCK685M004PTA
	4	10	K	0.5	15,000	478-5245-1-ND	6.65	5.79	5.06	478-5245-2-ND	1,000	2421.00	TLCK106M004QTA
	4	47	L	1.9	7,500	478-4705-1-ND	5.50	4.79	4.18	478-4705-2-ND	3,500	2002.00/M	TLCL476M004RTA
	4	100	R	4.0	5,000	478-3341-1-ND§	3.83	3.33	2.91	478-3341-2-ND	500	661.50	TLCR107M004XTA
	6.3	10	K	0.6	15,000	478-5343-1-ND	6.65	5.79	5.06	478-5343-2-ND	1,000	2261.00	TLCK106M006QTA
	6.3	22	L	1.4	7,500	478-3343-1-ND§	2.93	2.55	2.23	478-3343-2-ND	500	532.50	TLCL226M006XTA
	6.3	33	L	2.1	7,500	478-4877-1-ND	2.93	2.55	2.23	478-4877-2-ND	3,500	995.00/M	TLCL336M006RTA
	6.3	100	R	6	5,000	478-5263-1-ND	3.84	3.35	2.92	478-5263-2-ND	2,500	1306.00/M	TLCR107M006RTA
	10	10	U	1.0	5,000	478-4876-1-ND	3.83	3.33	2.91	478-4876-2-ND	3,500	1301.00/M	TLCU106M010RTA
	10	47	R	4.7	5,000	478-3347-1-ND§	3.83	3.33	2.91	478-3347-2-ND	500	661.50	TLCR476M010XTA
	16	3.3	L	0.5	7,500	478-4949-1-ND	2.93	2.55	2.23	478-4949-2-ND	3,500	995.00/M	TLCL335M016RTA
	35	1	R	0.5	5,000	478-5265-1-ND	3.84	3.35	2.92	478-5265-2-ND	2,500	1306.00/M	TLCR105M035RTA
2	4	47	N	1.9	4,000	478-5627-1-ND ***NEW!***	3.00	2.61	2.28	478-5627-2-ND ***NEW!***	3,000	1092.00/M	TLJN476M004R4000
	4	47	R	1.9	3,000	478-3441-1-ND§	3.00	2.61	2.28	478-3441-2-ND	2,500	1020.00/M	TLJR476M004R3000
	4	68	N	5.4	8,000	478-5630-1-ND ***NEW!***	3.00	2.61	2.28	478-5630-2-ND ***NEW!***	3,000	1092.00/M	TLJN686M004R8000
	4	68	R	2.7	2,900	478-4924-1-ND	3.00	2.61	2.28	478-4924-2-ND	2,500	1020.00/M	TLJR686M004R2900
	4	100	A	4.0	500	478-3342-1-ND§	2.10	1.83	1.60	478-3342-2-ND	2,000	678.00/M	TLJA107M004R0500
	4	100	N	8.0	5,200	478-5631-1-ND ***NEW!***	3.00	2.61	2.28	478-5631-2-ND ***NEW!***	3,000	1092.00/M	TLJN107M004R5200
	4	100	P	8.0	2,700	478-4923-1-ND	3.00	2.61	2.28	478-4923-2-ND	2,500	1020.00/M	TLJP107M004R2700
	4	220	A	17.6	1,100	478-4922-1-ND	3.10	2.70	2.36	478-4922-2-ND	2,000	1054.00/M	TLJA227M004R1100
	4	220	G	17.6	3,000	478-5987-1-ND ***NEW!***	2.75	2.40	2.09	478-5987-2-ND ***NEW!***	2,500	990.00/M	TLJG227M004R3000
	4	220	T	8.8	1,100	478-4319-1-ND	2.75	2.40	2.09	478-4319-2-ND	2,500	935.00/M	TLJT227M004R1100
	4	330	T	26.4	2,700	478-5988-1-ND ***NEW!***	3.25	2.83	2.47	478-5988-2-ND ***NEW!***	2,500	1170.00/M	TLJT337M004R2700
	6.3	22	N	1.3	5,400	478-4768-1-ND	3.00	2.61	2.28	478-4768-2-ND	3,000	1092.00/M	TLJN226M006R5400
	6.3	33	N	2.0	8,000	478-4767-1-ND	3.00	2.61	2.28	—	—	—	TLJN336M006R8000
	6.3	33	K	2.0	1,700	478-5348-1-ND	2.61	2.27	1.98	478-5348-2-ND	3,000	886.00/M	TLJK336M006R1700
	6.3	33	R	2.0	3,000	478-3344-1-ND§	3.00	2.61	2.28	478-3344-2-ND	2,500	969.00/M	TLJR336M006R3000
	6.3	47	K	2.8	1,500	478-5349-1-ND	2.61	2.27	1.98	478-5349-2-ND	3,000	886.00/M	TLJK476M006R1500
	6.3	47	N	5.6	8,300	478-5629-1-ND ***NEW!***	3.00	2.61	2.28	478-5629-2-ND ***NEW!***	3,000	1092.00/M	TLJN476M006R8300
	6.3	47	P	2.8	900	478-5407-1-ND	3.00	2.61	2.28	478-5407-2-ND	2,500	1020.00/M	TLJP476M006R0900
	6.3	47	R	2.8	3,200	478-4696-1-ND	3.00	2.61	2.28	478-4696-2-ND	2,500	1020.00/M	TLJR476M006R3200
	6.3	100	A	6.0	500	478-3345-1-ND§	3.10	2.70	2.36	478-3345-2-ND	2,000	1001.00/M	TLJA107M006R0500
	6.3	100	G	6.0	800	478-4948-1-ND	2.75	2.40	2.09	478-4948-2-ND	2,500	935.00/M	TLJG107M006R0800
	6.3	100	P	12	5,400	478-5260-1-ND	3.00	2.61	2.28	478-5260-2-ND	2,500	1020.00/M	TLJP107M006R5400
	6.3	150	H	9.0	900	478-5347-1-ND	2.03	1.77	1.55	478-5347-2-ND	2,500	690.00/M	TLJH157M006R0900
	6.3	330	F	19.8	300	478-5689-1-ND ***NEW!***	4.60	4.01	3.50	478-5689-2-ND ***NEW!***	1,000	1674.00	TLJF337M006R0300
	6.3	220	T	26.4	2,000	478-5989-1-ND ***NEW!***	3.25	2.83	2.47	478-5989-2-ND ***NEW!***	2,500	1170.00/M	TLJT227M006R2000
	6.3	680	Y	40.8	150	478-5530-1-ND	4.19	3.65	3.19	478-5530-2-ND	1,000	1525.00	TLJY687M006R0150
	10	10	R	1.0	2,000	478-6136-1-ND ***NEW!***	3.00	2.61	2.28	478-6136-2-ND ***NEW!***	2,500	1020.00/M	TLJR106M010R2000
	10	10	R	1.0	3,000	478-3346-1-ND§	2.75	2.40	2.09	478-3346-2-ND	2,500	888.00/M	TLJR106M010R3000
	10	22	N	2.2	3,800	478-4694-1-ND	3.00	2.61	2.28	478-4694-2-ND	3,000	1020.00/M	TLJN226M010R3800
	10	22	R	2.2	3,800	478-4695-1-ND	3.00	2.61	2.28	478-4695-2-ND	2,500	1020.00/M	TLJR226M010R3800
	10	33	K	3.3	1,500	478-4770-1-ND	3.25	2.83	2.47	478-4770-2-ND	3,000	1183.00/M	TLJK336M010R1500
	10	33	N	6.6	9,600	478-5628-1-ND ***NEW!***	3.00	2.61	2.28	478-5628-2-ND ***NEW!***	3,000	1092.00/M	TLJN336M010R9600
	10	33	P	3.3	3,500	478-5350-1-ND	1.21	1.05	.92	478-5350-2-ND	2,500	410.00/M	TLJP336M010R3500
	10	47	R	18.8	3,200	478-5990-1-ND ***NEW!***	3.00	2.61	2.28	478-5990-2-ND ***NEW!***	2,500	1080.00/M	TLJR476M010R3200
	10	47	T	4.7	600	478-3348-1-ND§	3.25	2.83	2.47	478-3348-2-ND	2,500	1050.00/M	TLJT476M010R0600
	10	68	A	6.8	1,500	478-4925-1-ND	3.05	2.66	2.32	478-4925-2-ND	2,000	1037.00/M	TLJA686M010R1500
	10	100	A	10.0	1,400	478-5651-1-ND ***NEW!***	3.10	2.70	2.36	478-5651-2-ND ***NEW!***	2,000	1054.00/M	TLJA107M010R1400
	10	150	B	15	500	478-3349-1-ND§	3.25	2.83	2.47	478-3349-2-ND	2,000	1050.00/M	TLJB157M010R0500
	10	150	W	15	150	478-4708-1-ND	4.25	3.70	3.23	478-4708-2-ND	1,000	1547.00	TLJW157M010R0150
	10	150	W	15	200	478-3350-1-ND§	4.25	3.70	3.23	478-3350-2-ND	1,000	1470.00	TLJW157M010R0200
	10	220	F	22	300	478-6135-1-ND ***NEW!***	4.60	4.01	3.50	478-6135-2-ND ***NEW!***	1,000	1674.00	TLJF227M010R0300
	16	22	T	3.5	1,000	478-5351-1-ND	3.25	2.83	2.47	478-5351-2-ND	2,500	1105.00/M	TLJT226M016R1000
	16	33	T	5.3	1,000	478-5406-1-ND	3.25	2.83	2.47	478-5406-2-ND	2,500	1105.00/M	TLJT336M016R1000

§ 478-3449-ND ***TLJ/TLC Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook **$46.25**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX TLN PulseCap™ Series – Tantalum Solid Electrolytic Chip Capacitors

TLN PulseCap™ Tantalum Capacitors offer low profile and high capacitance solution for applications where boosting power is required together with need for reduced height. Typical applications are PCMCIA/USB wireless express cards where bulk capacitance is needed to boost transmitter power.

Specifications:

- Capacitance Tolerance: ±20% • Temperature Range: -55°C ~ 125°C

Case Size	EIA Code	Dimensions – Inch (mm) L	W	H	W_1	A
4	7361-20	0.287 (7.3)	0.240 (6.1)	0.079 (2.0) max.	0.187 (4.75)	0.079 (2.0)
6	1575-20	0.571 (14.5)	0.295 (7.5)	0.079 (2.0) max.	0.217 (5.5)	0.094 (2.4)

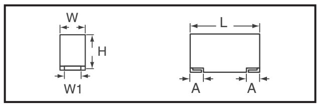

Case Size	Capacitance (mF)	Rated Voltage (V)	DCL (µA) Max.	ESR Max. (mΩ) @ 100kHz	100kHz Ripple Current (mA) @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
4	1.5	6.3	90	100	1285	478-6137-1-ND ***NEW!***	9.00	7.83	6.84	478-6137-2-ND ***NEW!***	800	2620.80	TLN4158M006R0100
6	1.0	10.0	100	55	2045	478-5633-1-ND ***NEW!***	11.75	10.23	8.93	478-5633-2-ND ***NEW!***	500	2138.50	TLN6108M010R0055
6	1.5	10.0	150	55	2045	478-5634-1-ND ***NEW!***	12.00	10.44	9.12	478-5634-2-ND ***NEW!***	500	2184.00	TLN6158M010R0055
6	2.2	6.3	132	55	2045	478-5430-1-ND	12.00	10.44	9.12	478-5430-2-ND	500	2184.00	TLN6228M006R0055
6	3.3	4.0	132	55	2045	478-5635-1-ND ***NEW!***	13.00	11.31	9.88	478-5635-2-ND ***NEW!***	500	2366.00	TLN6338M004R0055

TLN Undertab Series – Tantalum Solid Electrolytic Chip Capacitors

Features:

- High volumetric efficiency • High PCB assembly density
- High capacitance in smaller dimensions • 3x reflow 260°C compatible

Applications:

- PCMCIA/USB wireless cards, mobile phones, MP3 players

Case Code	EIA Code	Dimensions – Inch (mm) L	W	H	W_1	A
K	3216-10	0.126 (3.20)	0.063 (1.60)	0.039 (1.00) max.	0.047 (1.20)	0.031 (0.80)
S	3216-12	0.138 (3.50)	0.063 (1.60)	0.047 (1.20) max.	0.047 (1.20)	0.031 (0.80)

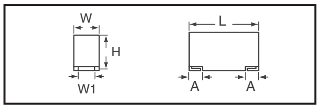

Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	ESR Max. (mΩ) @ 100kHz	100kHz Ripple Current (mA) @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
K	47	10.0	4.7	1,500	191	478-5632-1-ND ***NEW!***	2.40	2.09	1.83	478-5632-2-ND ***NEW!***	3,000	874.00/M	TLNK476M010R1500
S	220	4.0	17.6	3,000	135	478-5526-1-ND	1.20	1.05	.92	478-5526-2-ND	2,500	408.00/M	TLNS227M004R3000

TBJ Series – CWR11 COTS+ Tantalum Solid Electrolytic Chip Capacitors

Fully qualified to MIL-PRF-55365/8, the CWR11 is the military version of EIA-535BAAC. This construction is compatible with a wide range of SMT board assembly processes including wave or reflow solder, conductive epoxy or compression bonding techniques. The part also carries full polarity, capacitance/voltage and JAN brand marking.

Specifications: • Temperature Range: -55°C ~ 125°C

Case Code	EIA Code	Dimensions – Inch (mm) L	W	H	W_1	A	S (Min.)
A	3216-18	0.126 ±0.008 (3.20 ±0.20)	0.063 ±0.008 (1.60 ±0.20)	0.063 ±0.008 (1.60 ±0.20)	0.047 (1.20)	0.031 (0.80)	0.071 (1.80)
C	6032-28	0.236 ±0.012 (6.00 ±0.30)	0.126 ±0.012 (3.20 ±0.30)	0.098 ±0.012 (2.50 ±0.30)	0.087 (2.20)	0.051 (1.30)	0.114 (2.90)
D	7343-31	0.287 ±0.012 (7.30 ±0.30)	0.169 ±0.012 (4.30 ±0.30)	0.110 ±0.012 (2.80 ±0.30)	0.094 (2.40)	0.051 (1.30)	0.173 (4.40)
E	7343-43	0.287 (7.30)	0.169 (4.30)	0.162 (4.10)	0.094 (2.40)	0.051 (1.30)	0.173 (4.40)
V	7361-38	0.287 (7.30)	0.240 (6.10)	0.136 ±0.012 (3.45 ±0.30)	0.120 (3.10)	0.055 (1.40)	0.173 (4.40)

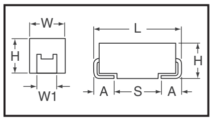

Case Size	Capacitance (µF)	Capacitance Tolerance (%)	DC Rated Voltage (V)	DCL (µA) Max.	ESR Maximum (mΩ) @ 100kHz	100kHz Ripple Current (A) @ 25°C	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
A	10	±10	10	1	1,800	0.20	478-5441-ND	15.19	13.50	11.14	TBJA106K010LBSB0024
	10	±10	16	1.6	3,000	0.16	478-5437-ND	15.10	13.42	11.08	TBJA106K016CBSB0024
C	4.7	±10	35	1.6	600	—	478-5444-ND	18.56	16.50	13.62	TBJC475K035LBSB0024
	10	±10	25	2.5	300	0.61	478-5433-ND	17.15	15.24	12.58	TBJC106K025LBSB0024
D	6.8	±10	35	2.4	400	0.64	478-5436-ND	18.56	16.50	13.62	TBJD685K035LBSB0024
	22	±10	20	4.4	200	—	478-5442-ND	16.22	14.42	11.90	TBJD226K020LBSB0024
	22	±10	35	7.7	125	1.15	478-5439-ND	18.56	16.50	13.62	TBJD226K035LBSB0024
	47	±10	16	7.6	80	1.37	478-5435-ND	15.10	13.42	11.08	TBJD476K016LBSB0024
	33	±20	35	11.6	200	0.91	478-5434-ND	18.56	16.50	13.62	TBJD336M035LBSB0024
	47	±20	25	11.8	175	0.93	478-5438-ND	16.02	14.24	11.75	TBJD476M025LBSB0024
E	15	±10	50	7.5	250	—	478-5447-ND	20.48	18.20	15.02	TBJE156K050LBSB0024
	22	±10	35	7.7	125	1.10	478-5446-ND	18.56	16.50	13.62	TBJE226K035LBSB0024
	33	±10	25	8.3	90	1.35	478-5432-ND	17.15	15.24	12.58	TBJE336K025LBSB0024
	33	±10	35	11.6	100	—	478-5431-ND	18.56	16.50	13.62	TBJE336K035LBSB0024
	68	±10	20	13.6	125	1.15	478-5448-ND	16.22	14.42	11.90	TBJE686K020LBSB0024
	220	±10	10	22	50	1.82	478-5445-ND	15.19	13.50	11.14	TBJE227K010LBSB0024
V	22	±20	50	4	600	—	478-5449-ND	19.35	17.20	14.19	TBJV226M050CBSB0024

TAZ Series – CWR29 COTS+ Tantalum Solid Electrolytic Chip Capacitors

A low ESR version of CWR09 and CWR19 that is fully qualified to MIL-PRF-55365/11, the CWR29 series represents the most flexible of surface mount form factors and the optimum power handling for all filtering applications. The molded body/compliant termination construction ensures no TCE mismatch with any substrate. This construction is compatible with a wide range of SMT board assembly processes including wave or reflow solder, conductive epoxy or compression bonding techniques. The parts also carry full polarity and capacitance/voltage marking.

Specifications: • Temperature Range: -55°C ~ 125°C

Case Code	Dimensions – Inch (mm) L	W	H	W_1	A	S (Min.)
V	0.287 (7.30)	0.240 (6.10)	0.136±0.012 (3.45±0.30)	0.120 (3.10)	0.055 (1.40)	0.173 (4.40)

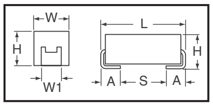

Case Size	Capacitance (µF)	Capacitance Tolerance (%)	DC Rated Voltage (V)	DCL (µA) Max.	ESR Maximum (mΩ) @ 100kHz	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
V	68	±10	25	17	150	478-5440-ND	13.73	12.20	10.07	TAZV686K025LBSB0024
	100	±10	20	20	100	478-5443-ND	14.09	12.52	10.33	TAZV107K020LBSB0024

TCN Series Conductive Polymer Tantalum Capacitors – With Undertab Terminations

Features: • Conductive polymer electrode reduces failure mode ignition • Lower ESR • Undertab terminations make for high volumetric efficiency, high PCB assembly density, and high capacitance in smaller dimensions than typical termination methods • 3x reflow 260°C compatible • Operating Temperature Range: -55°C ~ 105°C • Tolerance: ±20%

Case Code	EIA Code	Dimensions – Inch (mm) L	W	H	W_1	A
L	3528-10	0.138 (3.50)	0.110 (2.80)	0.039 (1.00) Max.	0.087 (2.20)	0.031 (0.80)
T	3528-12	0.138 (3.50)	0.110 (2.80)	0.047 (1.20) Max.	0.087 (2.20)	0.031 (0.80)

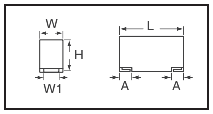

Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	ESR Max. (mΩ) @ 100kHz	100kHz RMS Current (mA) @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	AVX Part No.
L	150	6.3	90	200	548	478-5527-1-ND	1.90	1.66	1.45	478-5527-2-ND	646.00/M	TCNL157M006R0200
T	150	6.3	90	200	592	478-5528-1-ND	1.60	1.40	1.22	478-5528-2-ND	544.00/M	TCNT157M006R0200

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TCJ Series Conductive Polymer Tantalum Capacitors

The TCJ Series of tantalum capacitors with a conductive polymer electrode offers lower ESR, safer non-ignition failure mode and better capacitance retention compared to the conventional Mn02 electrode capacitors.

The TCJ series is suitable for power management systems with operating temperatures up to 125°C and is also ready for lead free-assembly systems up to 3x reflow with 260°C peak temperature.

- **Temperature Range:** -55°C ~ 125°C
- **Capacitance Tolerance:** ±20%

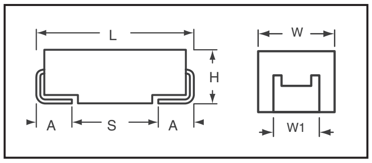

Case Size	EIA Code	Dimensions - mm					
		L	W	H	W1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
G	3216-15	3.20	1.60	1.50	1.20	0.80	1.10
H	3528-12	3.50	2.80	1.50	2.20	0.80	1.40
R	2012-12	2.05	1.30	1.20	1.0	0.50	0.85
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90

Rated Voltage (V)	Capacitance (µF)	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	RMS Current (mA) 25°C @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
2.5	68	A	6	17.0	250	548	478-3460-1-ND	2.48	2.16	1.89	478-3460-2-ND	2,000	366.00/M	TCJA686M002R0250
	100	A	6	25.0	200	612	478-3452-1-ND	2.48	2.16	1.89	478-3452-2-ND	2,000	366.00/M	TCJA107M002R0200
	100	B	6	25.0	70	1,102	478-3462-1-ND	2.48	2.16	1.89	478-3462-2-ND	2,000	366.00/M	TCJB107M002R0070
	150	B	6	37.5	70	1,102	478-3464-1-ND	2.48	2.16	1.89	478-3464-2-ND	2,000	425.00/M	TCJB157M002R0070
4	33	A	6	13.2	300	500	478-3455-1-ND	2.48	2.16	1.89	478-3455-2-ND	2,000	366.00/M	TCJA336M004R0300
	47	A	6	18.8	200	612	478-3457-1-ND	2.48	2.16	1.89	478-3457-2-ND	2,000	374.00/M	TCJA476M004R0200
	47	T	8	18.8	80	1,000	478-3479-1-ND	2.58	2.24	1.96	478-3479-2-ND	2,500	459.00/M	TCJT476M004R0080
	68	A	6	27.2	250	548	478-3461-1-ND	2.48	2.16	1.89	478-3461-2-ND	2,000	366.00/M	TCJA686M004R0250
	68	B	6	27.2	70	1,102	478-3137-1-ND†	1.10	.96	.84	478-3137-2-ND	2,000	374.00/M	TCJB686M004R0070
	68	T	8	27.2	80	1,000	478-3480-1-ND	2.58	2.24	1.96	478-3480-2-ND	2,500	459.00/M	TCJT686M004R0080
	100	A	6	40.0	200	612	478-3453-1-ND	2.48	2.16	1.89	478-3453-2-ND	2,000	374.00/M	TCJA107M004R0200
	100	B	8	40.0	70	1,102	478-3129-1-ND†	1.10	.96	.84	478-3129-2-ND	2,000	374.00/M	TCJB107M004R0070
	100	G	10	40.0	300	483	478-5657-1-ND ***NEW!***	2.98	2.60	2.27	478-5657-2-ND ***NEW!***	2,500	1013.00/M	TCJG107M004R0300
	150	B	6	60.0	70	1,102	478-3465-1-ND	2.48	2.16	1.89	478-3465-2-ND	2,000	434.00/M	TCJB157M004R0070
	220	B	10	88.0	70	1,102	478-5638-1-ND ***NEW!***	3.10	2.70	2.36	478-5638-2-ND ***NEW!***	2,000	1054.00/M	TCJB227M004R0070
	220	B	10	88.0	45	1,374	478-6134-1-ND ***NEW!***	2.90	2.53	2.21	478-6134-2-ND ***NEW!***	2,000	986.00/M	TCJB227M004R0045
6.3	10	A	6	6.0	300	500	478-3134-1-ND†	.94	.82	.72	478-3134-2-ND	2,000	318.00/M	TCJA106M006R0300
	10	R	6	6.0	500	332	478-3471-1-ND	3.00	2.61	2.28	478-3471-2-ND	2,500	496.00/M	TCJR106M006R0500
	22	A	6	13.2	300	500	478-4710-1-ND	.98	.85	.75	478-4710-2-ND	2,000	332.00/M	TCJA226M006R0300
	22	T	6	13.2	150	730	478-3475-1-ND	2.58	2.24	1.96	478-3475-2-ND	2,500	459.00/M	TCJT226M006R0150
	33	A	6	19.8	200	612	478-3456-1-ND	2.48	2.16	1.89	478-3456-2-ND	2,000	374.00/M	TCJA336M006R0200
	33	B	6	19.8	70	1,102	478-4712-1-ND	1.15	1.01	.88	478-4712-2-ND	2,000	391.00/M	TCJB336M006R0070
	33	B	6	19.8	200	652	478-3467-1-ND	2.48	2.16	1.89	478-3467-2-ND	2,000	366.00/M	TCJB336M006R0200
	33	T	8	19.8	150	730	478-3477-1-ND	2.58	2.24	1.96	478-3477-2-ND	2,500	459.00/M	TCJT336M006R0150
	47	A	6	28.2	200	612	478-3458-1-ND	2.48	2.16	1.89	478-3458-2-ND	2,000	374.00/M	TCJA476M006R0200
	47	B	6	28.2	70	1,102	478-3139-1-ND†	1.10	.96	.84	478-3139-2-ND	2,000	374.00/M	TCJB476M006R0070
	47	T	8	28.2	80	1,000	478-3133-1-ND†	1.32	1.15	1.00	478-3133-2-ND	2,500	447.00/M	TCJT476M006R0080
	68	B	8	40.8	55	1,102	478-4714-1-ND	1.65	1.44	1.26	478-4714-2-ND	2,000	561.00/M	TCJB686M006R0055
	68	B	8	40.8	70	1,102	478-3131-1-ND†	1.10	.96	.84	478-3131-2-ND	2,000	374.00/M	TCJB686M006R0070
	68	C	6	40.8	100	1,049	478-3470-1-ND	2.75	2.40	2.09	478-3470-2-ND	500	259.50	TCJC686M006R0100
	68	W	8	40.8	70	1,134	478-5693-1-ND ***NEW!***	3.20	2.79	2.44	478-5693-2-ND ***NEW!***	1,000	1165.00	TCJW686M006R0070
	100	B	10	60.0	45	1,374	478-4711-1-ND	1.55	1.35	1.18	478-4711-2-ND	2,000	527.00/M	TCJB107M006R0045
	100	B	10	60.0	70	1,102	478-3130-1-ND†	1.10	.96	.84	478-3130-2-ND	2,000	374.00/M	TCJB107M006R0070
	150	B	10	90.0	70	1,102	478-4921-1-ND	2.48	2.16	1.89	478-4921-2-ND	2,000	842.00/M	TCJB157M006R0070
	150	H	6	90.0	200	632	478-4715-1-ND	1.46	1.27	1.11	478-4715-2-ND	2,500	496.00/M	TCJH157M006R0200
	150	W	6	90.0	70	1,134	478-3481-1-ND	3.00	2.61	2.28	478-3481-2-ND	1,000	531.00	TCJW157M006R0070
	220	B	10	132.0	200	652	478-5749-1-ND ***NEW!***	2.85	2.48	2.17	478-5749-2-ND ***NEW!***	2,000	967.00/M	TCJB227M006R0200
10	4.7	R	6	4.7	500	332	478-3472-1-ND	3.00	2.61	2.28	478-3472-2-ND	2,500	496.00/M	TCJR475M010R0500
	10	A	6	10.0	300	500	478-3127-1-ND†	.95	.83	.72	478-3127-2-ND	2,000	321.00/M	TCJA106M010R0300
	15	A	6	15.0	200	612	478-3454-1-ND	2.48	2.16	1.89	478-3454-2-ND	2,000	366.00/M	TCJA156M010R0200
	22	B	6	22.0	300	532	478-3136-1-ND†	1.10	.96	.84	478-3136-2-ND	2,000	374.00/M	TCJB226M010R0300
	22	T	6	22.0	150	730	478-3476-1-ND	2.58	2.24	1.96	478-3476-2-ND	2,500	459.00/M	TCJT226M010R0150
	33	B	6	33.0	70	1,102	478-4713-1-ND	1.20	1.05	.92	478-4713-2-ND	2,000	408.00/M	TCJB336M010R0070
	33	B	6	33.0	200	652	478-3138-1-ND†	1.10	.96	.84	478-3138-2-ND	2,000	374.00/M	TCJB336M010R0200
	33	C	6	33.0	100	1,049	478-3468-1-ND	2.75	2.40	2.09	478-3468-2-ND	500	259.50	TCJC336M010R0100
	47	B	6	47.0	70	1,102	478-3132-1-ND†	1.10	.96	.84	478-3132-2-ND	2,000	374.00/M	TCJB476M010R0070
16	10	A	6	16.0	200	612	478-3451-1-ND	2.48	2.16	1.89	478-3451-2-ND	2,000	374.00/M	TCJA106M016R0200
	10	B	6	16.0	200	652	478-5261-1-ND	2.56	2.23	1.95	478-5261-2-ND	2,000	870.00/M	TCJB106M016R0200
	10	T	6	16.0	150	730	478-3473-1-ND	2.58	2.24	1.96	478-3473-2-ND	2,500	459.00/M	TCJT106M016R0150
	15	B	6	24.0	150	753	478-3463-1-ND	2.48	2.16	1.89	478-3463-2-ND	2,000	374.00/M	TCJB156M016R0150
	22	B	6	35.2	150	753	478-3466-1-ND	2.48	2.16	1.89	478-3466-2-ND	2,000	374.00/M	TCJB226M016R0150
35	10	C	6	35.0	200	742	478-5983-1-ND ***NEW!***	4.25	3.70	3.23	478-5983-2-ND ***NEW!***	500	773.50	TCJC106M035R0200

† 478-3447-ND ***TCJ Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook.. **$46.25**

TRJ Series Professional Tantalum Chip Capacitors

The TRJ surface mount series employs established tantalum technology together with new process improvements and advanced manufacturing techniques. This robust series enables extension of the guaranteed 0.5% reliability level to 1000 hours at rated voltage, rated temperature, and 0.1Ω/volt circuit impedance. The moisture penetration barrier, thicker external dielectric layer, and modified manganising process make the capacitor more robust against higher thermo-mechanical stresses during assembly process and also more robust against more severe working conditions in Automotive, Medical, Aerospace, Military, and other applications. Lower ESR options are now available within the professional TRJ while achieving reliability levels twice that of standard tantalum devices. This enables designers of power supplies in long life expectancy applications to use tantalum capacitors with the combined benefits of enhanced reliability and low ESR.

- **Voltage Range:** 16V ~ 50V • **Temperature Range:** -55°C ~ 125°C

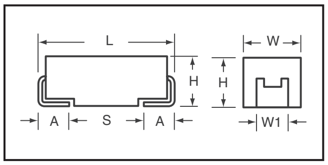

Case Size	EIA Code	Dimensions - mm					
		L	W	H	W1	S (Min.)	A
B	3528-21	3.50	2.80	1.90	2.20	1.40	0.80
C	6032-28	6.00	3.20	2.60	2.20	2.90	1.30
D	7343-31	7.30	4.30	2.90	2.40	4.40	1.30

Rated Voltage (V)	Capacitance (µF)	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ) @100kHz	Ripple Current (A) 25°C @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
16	22	C	6	2.6	700	396	478-4957-1-ND	1.20	1.05	.92	478-4957-2-ND	500	218.50	TRJC226M016RRJ
25	3.3	B	6	0.62	3,740	151	478-4954-1-ND	.87	.76	.66	478-4954-2-ND	2,000	294.00/M	TRJB335M025RRJ
	47	D	6	8.8	540	527	478-5760-1-ND ***NEW!***	4.47	3.90	3.40	478-5760-2-ND ***NEW!***	500	814.00	TRJD476K025RRJ
	47	D	6	8.8	250	775	478-5759-1-ND ***NEW!***	8.73	7.60	6.64	478-5759-2-ND ***NEW!***	500	1588.00	TRJD476K025R0250
35	1.0	B	4	0.3	3,400	158	478-4953-1-ND	.87	.76	.66	478-4953-2-ND	2,000	294.00/M	TRJB105K035RRJ
	10	D	6	2.6	800	433	478-4958-1-ND	1.93	1.68	1.47	478-4958-2-ND	500	350.50	TRJD106K035RRJ
50	2.2	D	4.5	0.8	2,000	274	478-5532-1-ND	5.50	4.79	4.18	478-5532-2-ND	500	1001.00	TRJD225M050RRJ
	2.2	D	4.5	0.8	1,200	354	478-5533-1-ND	5.80	5.05	4.41	478-5533-2-ND	500	1055.50	TRJD225K050R1200

AVX TPM Series Multianode Ultra Low ESR Surface Mount Tantalum Capacitors

Low ESR, high capacitance and high ripple current are the key parameters for processor filtering. Multianode configuration within a standard E case package meets these requirements • **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions - mm L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W1 ±0.20	A +0.30, -0.20	S (Min.)
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40

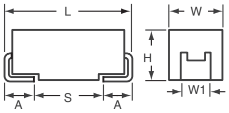

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.5	1,500	10	E	6	38	12	478-3292-1-ND†	15.00	13.05	11.40	478-3292-2-ND	400	2074.80	TPME158K002R0012
	1,500	10	E	6	38	15	478-3293-1-ND	15.00	13.05	11.40	478-3293-2-ND	400	2074.80	TPME158K002R0015
	1,500	10	E	6	38	18	478-3622-1-ND	14.25	12.40	10.83	478-3622-2-ND	400	2074.80	TPME158K002R0018
	1,500	20	E	6	38	18	478-3623-1-ND	14.25	12.40	10.83	478-3623-2-ND	400	2074.80	TPME158M002R0018
	2,200	10	E	10	44	18	478-4318-1-ND	15.00	13.05	11.40	478-4318-2-ND	400	2184.00	TPME228K002R0018
4	470	10	D	8	18.8	25	478-4641-1-ND	8.25	6.19	4.40	478-4641-2-ND	500	1820.00	TPMD477K004R0025
	680	10	E	6	27	18	478-3294-1-ND†	15.00	13.05	11.40	478-3294-2-ND	400	2074.80	TPME687K004R0018
	680	10	E	6	27	23	478-1815-1-ND	12.25	10.66	9.31	478-1815-2-ND	400	1783.60	TPME687K004R0023
	680	20	E	6	27	23	478-1816-1-ND	11.25	9.79	8.55	478-1816-2-ND	400	1638.00	TPME687M004R0023
	1,000	10	D	8	40	25	478-4951-1-ND	8.25	6.19	4.40	478-4951-2-ND	500	1925.00	TPMD108K004R0025
	1,000	10	D	8	40	45	478-4952-1-ND	8.25	6.19	4.40	478-4952-2-ND	500	1925.00	TPMD108K004R0045
	1,000	10	E	6	40	18	478-1819-1-ND†	12.50	10.88	9.50	478-1819-2-ND	400	1820.00	TPME108K004R0018
	1,000	20	E	6	40	23	478-3624-1-ND	14.63	12.73	11.12	478-3624-2-ND	400	2129.60	TPME108M004R0023
	1,000	20	E	6	40	18	478-1820-1-ND	11.75	10.23	8.93	478-1820-2-ND	400	1710.80	TPME108M004R0018
	1,500	10	E	6	40	15	478-3625-1-ND	14.25	12.40	10.83	478-3625-2-ND	400	2074.80	TPME158K004R0015
	1,500	20	E	6	40	15	478-3626-1-ND	14.25	12.40	10.83	478-3626-2-ND	400	2074.80	TPME158M004R0015
6.3	220	20	Y	6	13	30	478-5256-1-ND	14.85	12.92	11.29	478-5256-2-ND	1,000	5405.00	TPMY227M006R0030
	470	10	E	6	28	23	478-3296-1-ND†	15.00	13.05	11.40	478-3296-2-ND	400	2074.80	TPME477K006R0023
	470	10	E	6	28	30	478-1812-1-ND	10.00	8.70	7.60	478-1812-2-ND	400	1456.00	TPME477K006R0030
	470	10	D	6	28	30	478-4632-1-ND	8.25	6.19	4.40	478-4632-2-ND	500	1820.00	TPMD477K006R0030
	470	20	E	6	28	30	478-1813-1-ND	9.75	8.49	7.41	478-1813-2-ND	400	1419.60	TPME477M006R0030
	680	10	E	6	41	18	478-3297-1-ND†	15.00	13.05	11.40	478-3297-2-ND	400	2074.80	TPME687K006R0018
	680	10	E	6	41	23	478-1817-1-ND	12.25	10.66	9.31	478-1817-2-ND	400	1783.60	TPME687K006R0023
	680	20	E	6	41	23	478-1818-1-ND	11.25	9.79	8.55	478-1818-2-ND	400	1638.00	TPME687M006R0023
	1,000	20	V	8	63	20	478-5753-1-ND ***NEW!***	15.50	13.49	11.78	478-5753-2-ND ***NEW!***	400	2256.80	TPMV108M006R0020
10	100	20	Y	8	10	45	478-5254-1-ND	14.85	12.92	11.29	478-5254-2-ND	1,000	5405.00	TPMY107M010R0045
	150	20	Y	8	15	45	478-5255-1-ND	14.85	12.92	11.29	478-5255-2-ND	1,000	5405.00	TPMY157M010R0045
	220	10	D	8	22	35	478-4636-1-ND	8.25	6.19	4.40	478-4636-2-ND	500	1820.00	TPMD227K010R0035
	330	10	D	8	33	35	478-4633-1-ND	8.25	6.19	4.40	478-4633-2-ND	500	1820.00	TPMD337K010R0035
	330	10	E	6	33	23	478-3628-1-ND	14.25	12.40	10.83	478-3628-2-ND	400	2074.80	TPME337K010R0023
	330	10	E	6	33	35	478-1810-1-ND†	10.00	8.70	7.60	478-1810-2-ND	400	1456.00	TPME337K010R0035
	330	20	E	6	33	23	478-3629-1-ND	14.25	12.40	10.83	478-3629-2-ND	400	2074.80	TPME337M010R0023
	330	20	E	6	33	35	478-1811-1-ND	9.75	8.49	7.41	478-1811-2-ND	400	1419.60	TPME337M010R0035
	470	10	E	6	47	23	478-3299-1-ND†	15.00	13.05	11.40	478-3299-2-ND	400	2074.80	TPME477K010R0023
	470	10	E	6	47	30	478-3300-1-ND	15.00	13.05	11.40	478-3300-2-ND	400	2074.80	TPME477K010R0030
	470	20	E	6	47	23	478-3630-1-ND	14.25	12.40	10.83	478-3630-2-ND	400	2074.80	TPME447M010R0023
	470	20	E	6	47	30	478-1814-1-ND	9.75	8.49	7.41	478-1814-2-ND	400	1419.60	TPME477M010R0030
16	150	10	E	6	24	30	478-3631-1-ND	14.25	12.40	10.83	478-3631-2-ND	400	2074.80	TPME157K016R0030
	150	20	E	6	24	30	478-3632-1-ND	14.25	12.40	10.83	478-3632-2-ND	400	2074.80	TPME157M016R0030
	150	20	E	6	24	40	478-3633-1-ND	14.25	12.40	10.83	478-3633-2-ND	400	2074.80	TPME157M016R0040
	220	10	E	6	35	25	478-3302-1-ND†	15.00	13.05	11.40	478-3302-2-ND	400	2074.80	TPME227K016R0025
	220	20	E	6	35	25	478-3634-1-ND	14.25	12.40	10.83	478-3634-2-ND	400	2074.80	TPME227M016R0025
	220	20	E	6	35	40	478-3635-1-ND	14.25	12.40	10.83	478-3635-2-ND	400	2074.80	TPME227M016R0040
	220	10	E	6	35	40	478-3303-1-ND	15.00	13.05	11.40	478-3303-2-ND	400	2074.80	TPME227K016R0040
20	100	10	E	6	20	35	478-3442-1-ND†	15.00	13.05	11.40	478-3442-2-ND	400	2184.00	TPME107K020R0035
	100	10	E	6	20	45	478-3637-1-ND	14.25	12.40	10.83	478-3637-2-ND	400	2074.80	TPME107K020R0045
	100	20	E	6	20	35	478-3636-1-ND	14.25	12.40	10.83	478-3636-2-ND	400	2074.80	TPME107M020R0035
	100	20	E	6	20	45	478-3638-1-ND	14.25	12.40	10.83	478-3638-2-ND	400	2074.80	TPME107M020R0045
	150	10	E	10	30	35	478-5253-1-ND	15.00	13.05	11.40	478-5253-2-ND	400	2184.00	TPME157K020R0035
25	47	10	D	8	11.8	55	478-5985-1-ND ***NEW!***	8.25	6.19	4.40	478-5985-2-ND ***NEW!***	500	1925.00	TPMD476K025R0055
	68	10	E	6	17	45	478-3639-1-ND	14.25	12.40	10.83	478-3639-2-ND	400	2074.80	TPME686K025R0045
	68	10	E	6	17	55	478-3304-1-ND†	15.00	13.05	11.40	478-3304-2-ND	400	2074.80	TPME686K025R0055
	68	20	E	6	17	45	478-3640-1-ND	14.25	12.40	10.83	478-3640-2-ND	400	2074.80	TPME686M025R0045
35	22	10	D	8	7.7	70	478-6101-1-ND ***NEW!***	9.75	7.32	5.20	478-6101-2-ND ***NEW!***	500	2275.00	TPMD226K035R0070
	22	10	E	6	8	60	478-3305-1-ND†	17.50	15.23	13.30	478-3305-2-ND	400	2420.80	TPME226K035R0060
	22	10	E	6	8	100	478-3306-1-ND	17.50	15.23	13.30	478-3306-2-ND	400	2420.80	TPME226K035R0100
	33	10	E	6	12	50	478-3641-1-ND	17.50	15.23	13.30	478-3641-2-ND	400	2548.00	TPME336K035R0050
	33	10	E	6	12	65	478-3307-1-ND†	17.50	15.23	13.30	478-3307-2-ND	400	2420.80	TPME336K035R0065
	33	20	E	6	12	50	478-3642-1-ND	17.50	15.23	13.30	478-3642-2-ND	400	2548.00	TPME336M035R0050
	47	10	E	6	16	55	478-3643-1-ND	17.50	15.23	13.30	478-3643-2-ND	400	2548.00	TPME476K035R0055
	47	10	E	6	16	65	478-3308-1-ND†	17.50	15.23	13.30	478-3308-2-ND	400	2420.80	TPME476K035R0065
	47	20	E	6	16	65	478-3644-1-ND	17.50	15.23	13.30	478-3644-2-ND	400	2548.00	TPME476M035R0065
50	10	10	E	6	5	120	478-3309-1-ND†	20.00	17.40	15.20	478-3309-2-ND	400	2766.40	TPME106K050R0120
	10	20	D	8	5	140	478-6102-1-ND ***NEW!***	11.25	8.44	6.00	478-6102-2-ND ***NEW!***	500	2625.00	TPMD106M050R0140

† **478-3448-ND** ***TPM Series Capacitors Kit*** 5 each of values denoted (85 total pieces). See Digi-Key's website for complete list of parts. **$46.25**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AVX THJ Series — High Temperature Tantalum Capacitors

They combine high temperature operation and higher basic reliability for optimal performance in high temperature automotive and industry applications. The operational temperature is up to 175°C with derating voltage. The level of reliability of this tantalum product is 0.5%/1000 hours of rated voltage, rated temperature and 0.1Ω/volt circuit impedance. The capacitors are produced in black encapsulation with white polarity marking. **Specifications**: Maximum Operating Temperature: up to 175°C with 50% derating

Case Size	EIA Metric	Dimensions - mm					
		L ±0.20	W ±0.20/-0.10	H ±0.20/-0.10	W1 ±0.20 (0.008)	A +0.30	S (Min)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40

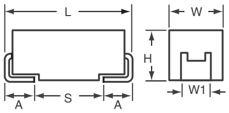

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
6.3	33	20	B	6	1.9	2.2	478-5703-1-ND ***NEW!***	.78	.68	.60	478-5703-2-ND ***NEW!***	2,000	265.20/M	THJB336M006RJN
10	100	10	D	6	10	0.9	478-5708-1-ND ***NEW!***	2.35	2.05	1.79	478-5708-2-ND ***NEW!***	500	427.70	THJD107K010RJN
	220	10	E	10	22	0.25	478-5639-1-ND ***NEW!***	78.00	67.86	59.28	478-5639-2-ND ***NEW!***	400	11356.80	THJE227K010AJH
16	2.2	10	A	6	0.5	6.5	478-5702-1-ND ***NEW!***	.50	.44	.38	478-5702-2-ND ***NEW!***	2,000	170.00/M	THJA225K016RJN
	3.3	10	A	6	0.5	5.0	478-5697-1-ND ***NEW!***	.50	.44	.38	478-5697-2-ND ***NEW!***	2,000	170.00/M	THJA335K016RJN
	4.7	10	A	4.5	0.8	2.9	478-3851-1-ND	.58	.50	.44	478-3851-2-ND	2,000	196.00/M	THJA475K016RJN
	15	10	B	6	2.4	2.0	478-5698-1-ND ***NEW!***	.80	.70	.61	478-5698-2-ND ***NEW!***	2,000	270.00/M	THJB156K016RJN
	22	10	C	6	3.5	1.6	478-5706-1-ND ***NEW!***	1.25	1.09	.95	478-5706-2-ND ***NEW!***	500	227.50	THJC226K016RJN
	47	10	D	6	7.5	0.9	478-3852-1-ND	2.00	1.74	1.52	478-3852-2-ND	500	364.00	THJD476K016RJN
	68	10	D	4.5	10.9	0.9	478-5714-1-ND ***NEW!***	2.30	2.01	1.75	478-5714-2-ND ***NEW!***	500	418.60	THJD686K016RJN
	100	10	E	8	16	0.25	478-5640-1-ND ***NEW!***	71.00	61.77	53.96	478-5640-2-ND ***NEW!***	400	10337.60	THJE107K016AJH
20	33	20	D	6	6.6	0.9	478-5712-1-ND ***NEW!***	1.90	1.66	1.45	478-5712-2-ND ***NEW!***	500	345.80	THJD336M020RJN
25	10	10	C	6	2.5	1.8	478-5704-1-ND ***NEW!***	1.25	1.09	.95	478-5704-2-ND ***NEW!***	500	227.50	THJC106K025RJN
	10	20	C	6	2.5	1.8	478-5705-1-ND ***NEW!***	1.20	1.05	.92	478-5705-2-ND ***NEW!***	500	218.40	THJC106M025RJN
35	0.1	10	A	4	0.5	24	478-5701-1-ND ***NEW!***	1.15	1.01	.88	478-5701-2-ND ***NEW!***	2,000	391.00/M	THJA104K035RJN
	3.3	10	C	6	1.2	2.5	478-5699-1-ND ***NEW!***	1.15	1.01	.88	478-5699-2-ND ***NEW!***	500	209.50	THJC335K035RJN
	4.7	10	C	6	1.6	2.2	478-5707-1-ND ***NEW!***	1.28	1.11	.97	478-5707-2-ND ***NEW!***	500	232.05	THJC475K035RJN
	10	10	D	6	3.5	1.0	478-3855-1-ND	2.01	1.75	1.53	478-3855-2-ND	500	366.00	THJD106K035RJN
	15	20	D	6	5.3	0.9	478-5709-1-ND ***NEW!***	2.25	1.96	1.71	478-5709-2-ND ***NEW!***	500	409.50	THJD156M035RJN
	22	10	D	6	7.7	0.6	478-5710-1-ND ***NEW!***	3.25	2.83	2.47	478-5710-2-ND ***NEW!***	500	591.50	THJD226K035RJN
	22	20	D	6	7.7	0.6	478-5711-1-ND ***NEW!***	3.15	2.75	2.40	478-5711-2-ND ***NEW!***	500	573.30	THJD226M035RJN
	22	10	D	6	7.7	0.3	478-4753-1-ND	12.35	10.75	9.39	478-4753-2-ND	500	2247.50	THJD226K035R0300
	33	10	E	6	11.6	0.5	478-5700-1-ND ***NEW!***	8.50	7.40	6.46	478-5700-2-ND ***NEW!***	400	1237.60	THJE336K035RJN
50	3.3	10	D	6	1.7	1.1	478-6165-1-ND ***NEW!***	6.30	5.49	4.79	478-6165-2-ND ***NEW!***	500	1146.50	THJD335K050RJN
	4.7	10	D	6	2.4	0.9	478-5713-1-ND ***NEW!***	6.25	5.44	4.75	478-5713-2-ND ***NEW!***	500	1137.50	THJD475K050RJN
	6.8	10	D	6	3.4	0.7	478-6166-1-ND ***NEW!***	6.25	5.44	4.75	478-6166-2-ND ***NEW!***	500	1137.50	THJD685K050RJN
	10	10	D	6	5.0	0.7	478-6163-1-ND ***NEW!***	6.30	5.49	4.79	478-6163-2-ND ***NEW!***	500	1146.50	THJD106K050RJN
	10	10	E	6	5.0	0.7	478-6164-1-ND ***NEW!***	10.50	9.14	7.98	478-6164-2-ND ***NEW!***	400	1528.80	THJE106K050RJN

TAC and TPC Series — Standard Microchip Surface Mount Tantalum Capacitors

TAC Series: The world's smallest surface mount tantalum capacitor, small enough to create space providing room for ideas to grow. TACmicrochip™ is a major breakthrough in miniaturization without reduction in performance. It offers the highest energy store in a small case down to 0402. Enhanced high frequency operation through unique ESR performance with temperature and voltage stability also offered. **TPC Series:** Offers lower ESR feature to TACmicrochip® solid tantalum capacitors. The low ESR TPC capacitors improve performance of power supplies in miniature case sizes such as 0603 and 0805.

Case Size	EIA Code	EIA Metric	Dimensions - mm			Minimum Termination	
			L	W	H	Spacing (S)	Length (Lt)
A	1206	3216-18	3.20	1.60	1.60	1.80	0.15
H	0805	2012-10	2.00	1.35	1.00	0.70	0.15
K	0402	1005-07	1.00	0.50	0.50	0.40	0.10
L	0603	1608-10	1.60	0.85	0.85	0.55	0.15
R	0805	2012-15	2.00	1.35	1.35	0.70	0.15
T	3528	3528-12	3.50	2.80	1.20	2.00	0.15
U	0805	2012-06	2.00	1.35	0.60	0.70	0.15
V	1206	3528-08	3.20	1.60	0.75	1.80	0.15

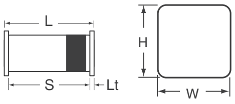

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
TAC Series														
3.0	4.7	20	K	12	0.5	15.0	478-3255-1-ND†	7.40	6.44	5.63	478-3255-2-ND	1,000	2694.00	TACK475M003QTA
	100	20	R	30	3.0	5.0	478-3256-1-ND†	4.25	3.70	3.23	478-3256-2-ND	500	773.50	TACR107M003XTA
	220	20	T	20	6.6	1.0	478-3257-1-ND†	4.88	4.25	3.71	478-3257-2-ND	500	887.50	TACT227M003XTA
4.0	10	20	L	10	0.5	7.5	478-2549-1-ND	3.25	2.83	2.47	478-2549-2-ND	500	591.50	TACL106M004XTA
	22	20	L	20	0.9	7.5	478-2550-1-ND†	3.25	2.83	2.47	478-2550-2-ND	500	591.50	TACL226M004XTA
	47	20	R	14	1.9	5.0	478-3113-1-ND	4.25	3.70	3.23	478-3113-2-ND	500	773.50	TACR476M004XTA
	100	20	A	20	4.0	1.0	478-2566-1-ND	5.50	4.79	4.18	478-2566-2-ND	500	1001.00	TACA107M004XTA
	100	20	R	30	4.0	5.0	478-4755-1-ND	4.25	3.70	3.23	478-4755-2-ND	2,500	1445.00/M	TACR107M004RTA
6.3	1.5	20	L	6	0.5	7.5	478-2551-1-ND	3.25	2.83	2.47	478-2551-2-ND	500	591.50	TACL155M006XTA
	2.2	20	K	8	0.5	15.0	478-2547-1-ND†	7.40	6.44	5.63	478-2547-2-ND	1,000	2694.00	TACK225M006QTA
	2.2	20	L	6	0.5	7.5	478-2552-1-ND	3.25	2.83	2.47	478-2552-2-ND	500	591.50	TACL225M006XTA
	10	20	L	10	0.6	6.0	478-2553-1-ND	4.25	3.70	3.23	478-2553-2-ND	500	773.50	TACL106M006XTA
	10	10	R	8	0.6	5.0	478-4185-1-ND	4.25	3.70	3.23	478-4185-2-ND	500	773.50	TACR106K006XTA
	10	20	R	8	0.6	5.0	478-2561-1-ND	2.75	2.40	2.09	478-2561-2-ND	500	500.50	TACR106M006XTA
	10	20	R	8	0.6	5.0	478-5225-1-ND	4.25	3.70	3.23	478-5225-2-ND	2,500	1445.00/M	TACR106M006RTA
	15	20	L	20	0.9	7.5	478-3114-1-ND†	3.25	2.83	2.47	478-3114-2-ND	500	591.50	TACL156M006XTA
	22	20	H	10	1.4	5.0	478-3258-1-ND†	4.25	3.70	3.23	478-3258-2-ND	500	773.50	TACH226M006XTA
	22	10	R	10	1.4	5.0	478-4188-1-ND	4.25	3.70	3.23	478-4188-2-ND	500	773.50	TACR226K006XTA
	22	20	R	10	1.4	5.0	478-2562-1-ND	4.25	3.70	3.23	478-2562-2-ND	500	773.50	TACR226M006XTA
	33	20	R	12	2.1	5.0	478-3115-1-ND	4.25	3.70	3.23	478-3115-2-ND	500	773.50	TACR336M006XTA
	47	20	R	20	3.0	5.0	478-3259-1-ND†	4.25	3.70	3.23	478-3259-2-ND	500	773.50	TACR476M006XTA

(Continued)

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
6.3	47	20	A	15	3.0	1.0	478-3116-1-ND	5.50	4.79	4.18	478-3116-2-ND	500	1001.00	TACA476M006XTA
	100	20	T	12	6.3	1.0	478-3261-1-ND†	4.88	4.25	3.71	478-3261-2-ND	500	887.50	TACT107M006XTA
10	1.0	20	K	6	0.5	15.0	478-2548-1-ND†	7.40	6.44	5.63	478-2548-2-ND	1,000	2694.00	TACK105M010QTA
	1.0	10	L	6	0.5	7.5	478-4183-1-ND	3.25	2.83	2.47	478-4183-2-ND	500	591.50	TACL105K010XTA
	1.0	20	L	6	0.5	7.5	478-2554-1-ND	3.25	2.83	2.47	478-2554-2-ND	500	591.50	TACL105M010XTA
	2.2	20	U	8	0.5	5.0	478-3262-1-ND†	4.25	3.70	3.23	478-3262-2-ND	500	773.50	TACU225M010XTA
	2.2	10	L	6	0.5	7.5	478-5223-1-ND	3.25	2.83	2.47	478-5223-2-ND	500	591.50	TACL225K010XTA
	2.2	20	L	6	0.5	7.5	478-2555-1-ND	3.25	2.83	2.47	478-2555-2-ND	500	591.50	TACL225M010XTA
	3.3	10	L	8	0.5	7.5	478-6061-1-ND ***NEW!***	3.25	2.83	2.47	478-6061-2-ND ***NEW!***	500	591.50	TACL335K010XTA
	3.3	20	L	8	0.5	7.5	478-2556-1-ND	3.25	2.83	2.47	478-2556-2-ND	500	591.50	TACL335M010XTA
	3.3	20	R	8	0.5	5.0	478-2563-1-ND	4.25	3.70	3.23	478-2563-2-ND	500	773.50	TACR335M010XTA
	4.7	20	L	10	0.5	6.0	478-2557-1-ND	3.25	2.83	2.47	478-2557-2-ND	500	591.50	TACL475M010XTA
	4.7	10	R	8	0.5	6.0	478-4190-1-ND	4.25	3.70	3.23	478-4190-2-ND	500	773.50	TACR475K010XTA
	4.7	10	R	8	0.5	6.0	478-5227-1-ND	4.25	3.70	3.23	478-5227-2-ND	2,500	1445.00/M	TACR475K010RTA
	4.7	20	R	8	0.5	6.0	478-2564-1-ND	2.75	2.40	2.09	478-2564-2-ND	500	500.50	TACR475M010XTA
	10	20	L	20	1.0	7.5	478-3263-1-ND†	3.25	2.83	2.47	478-3263-2-ND	500	591.50	TACL106M010XTA
	10	10	R	8	1.0	5.0	478-4186-1-ND	4.25	3.70	3.23	478-4186-2-ND	500	773.50	TACR106K010XTA
	10	10	R	8	1.0	5.0	478-5224-1-ND	4.25	3.70	3.23	478-5224-2-ND	2,500	1445.00/M	TACR106K010RTA
	10	20	R	8	1.0	5.0	478-5226-1-ND	4.25	3.70	3.23	478-5226-2-ND	2,500	1445.00/M	TACR106M010RTA
	10	20	V	10	1.0	2.0	478-4691-1-ND	6.48	5.64	4.93	478-4691-2-ND	2,500	2202.00/M	TACV106M010RTA
	15	10	R	10	1.5	5.0	478-4187-1-ND	4.25	3.70	3.23	478-4187-2-ND	500	773.50	TACR156K010XTA
	22	20	R	14	2.5	5.0	478-3117-1-ND†	4.25	3.70	3.23	478-3117-2-ND	500	773.50	TACR226M010XTA
	33	20	A	12	3.3	1.0	478-3118-1-ND†	5.50	4.79	4.18	478-3118-2-ND	500	1001.00	TACA336M010XTA
	47	20	T	12	4.7	1.0	478-3264-1-ND†	4.88	4.25	3.71	478-3264-2-ND	500	887.50	TACT476M010XTA
16	1.0	20	U	8	0.5	5.0	478-3265-1-ND†	4.25	3.70	3.23	478-3265-2-ND	500	773.50	TACU105M016XTA
	1.0	10	L	6	0.5	7.5	478-4184-1-ND	3.25	2.83	2.47	478-4184-2-ND	500	591.50	TACL105K016XTA
	1.0	20	L	6	0.5	7.5	478-2558-1-ND	3.25	2.83	2.47	478-2558-2-ND	500	591.50	TACL105M016XTA
	2.2	20	L	10	0.5	7.5	478-3119-1-ND†	3.25	2.83	2.47	478-3119-2-ND	500	591.50	TACL225M016XTA
	10	20	R	10	1.6	5.0	478-2565-1-ND†	4.25	3.70	3.23	478-2565-2-ND	500	773.50	TACR106M016XTA
20	4.7	20	R	8	0.9	5.0	478-3266-1-ND†	4.25	3.70	3.23	478-3266-2-ND	500	773.50	TACR475M020XTA
25	1.0	20	R	8	0.5	5.0	478-3267-1-ND†	4.25	3.70	3.23	478-3267-2-ND	500	773.50	TACR105M025XTA
TPC Series														
3.0	47	10	R	10	1.5	1.5	478-4964-1-ND	5.40	4.70	4.11	478-4964-2-ND	2,500	1966.00/M	TPCR476K003R1500
4.0	33	10	R	10	1.3	1.5	478-4963-1-ND	5.40	4.70	4.11	478-4963-2-ND	2,500	1966.00/M	TPCR336K004R1500
	33	20	H	14	1.3	1.5	478-5691-1-ND ***NEW!***	6.90	6.01	5.25	478-5691-2-ND ***NEW!***	3,500	2346.00/M	TPCH336M004R1500
	100	20	R	30	4.0	1.0	478-5688-1-ND ***NEW!***	5.40	4.70	4.11	478-5688-2-ND ***NEW!***	2,500	1836.00/M	TPCR107M004R1000
6.3	2.2	10	L	6	0.5	5.0	478-5750-1-ND ***NEW!***	4.10	3.57	3.12	478-5750-2-ND ***NEW!***	3,500	1492.00/M	TPCL225K006R5000
	10	10	L	10	0.6	4.0	478-4959-1-ND	4.10	3.57	3.12	478-4959-2-ND	3,500	1492.00/M	TPCL106K006R4000
	22	10	R	10	1.4	1.5	478-4962-1-ND	5.40	4.70	4.11	478-4962-2-ND	2,500	1966.00/M	TPCR226K006R1500
10	1.0	20	L	6	0.5	5.0	478-5352-1-ND	4.10	3.57	3.12	478-5352-2-ND	3,500	1394.00/M	TPCL105M010R5000
	2.2	10	L	6	0.5	5.0	478-5751-1-ND ***NEW!***	4.10	3.57	3.12	478-5751-2-ND ***NEW!***	3,500	1492.00/M	TPCL225K010R5000
	3.3	10	L	8	0.5	5.0	478-4960-1-ND	4.10	3.57	3.12	478-4960-2-ND	3,500	1492.00/M	TPCL335K010R5000
	4.7	10	L	10	0.5	5.0	478-4961-1-ND	4.10	3.57	3.12	478-4961-2-ND	3,500	1492.00/M	TPCL475K010R5000
	10	10	H	8	1.0	2.5	478-5690-1-ND ***NEW!***	6.90	6.01	5.25	478-5690-2-ND ***NEW!***	3,500	2346.00/M	TPCH106K010R2500
	22	10	R	30	4.0	1.0	478-5692-1-ND ***NEW!***	5.40	4.70	4.11	478-5692-2-ND ***NEW!***	2,500	1836.00/M	TPCR226K010R1500
16	2.2	10	L	10	0.5	5.0	478-5752-1-ND ***NEW!***	4.10	3.57	3.12	478-5752-2-ND ***NEW!***	3,500	1492.00/M	TPCL225K016R5000

† 478-3450-ND ***TAC Series Capacitors Kit*** 5 each of values denoted (105 total pieces). See Digi-Key's website for complete list of parts. **$46.25**

OxiCap™ Niobium Oxide Capacitors

Cost versus performance is a key requirement for consumer electronic products. A solid electrolyte capacitor OxiCap has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market. The OxiCap non-burn technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors. The laser coded orange molded body gives total traceability.

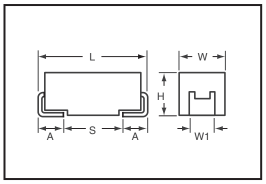

Case Size	EIA Code	Dimensions — mm L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
F	6032-20	6.00	3.20	2.00	2.20	1.30	2.90
P	2012-15	2.05	1.35	1.50	1.0 ±0.1	0.50	0.85
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	2.00
V	7361-38	7.30	6.10	3.45 ±0.30	3.10	1.40	1.80
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40

NOJ Series

- **Temperature Range:** -55°C ~ 105°C

Rated Voltage (V)	Capac-itance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.5	15	20	S	8	1.0	2000	478-5845-1-ND ***NEW!***	.97	.85	.74	478-5845-2-ND ***NEW!***	2,500	330.00/M	NOJS156M002RWJ
	33	20	T	6	1.7	1700	478-5849-1-ND ***NEW!***	1.15	1.01	.88	478-5849-2-ND ***NEW!***	2,500	391.00/M	NOJT336M002RWJ
	330	20	C	10	16.5	300	478-5843-1-ND ***NEW!***	1.65	1.44	1.26	478-5843-2-ND ***NEW!***	500	299.50	NOJC337M002RWJ
	1000	20	V	18	50.0	300	478-3201-1-ND†	7.80	6.79	5.93	478-3201-2-ND	400	1078.80	NOJV108M002RWJ
4	6.8	20	P	6	1.0	5300	478-3202-1-ND†	1.06	.93	.81	478-3202-2-ND	2,500	342.00/M	NOJP685M004RWJ

(Continued)

OxiCap™ Niobium Oxide Capacitors — NOJ Series *(Cont.)*

Rated Voltage (V)	Capac-itance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
4	10	20	S	8	1.0	2200	478-5844-1-ND ***NEW!***	.97	.85	.74	478-5844-2-ND ***NEW!***	2,500	330.00/M	NOJS106M004RWJ
	15	20	A	6	1.2	2000	478-5850-1-ND ***NEW!***	.49	.43	.37	478-5850-2-ND ***NEW!***	8,000	165.00/M	NOJA156M004SWJ
	22	20	T	6	2.0	1800	478-5848-1-ND ***NEW!***	1.15	1.01	.88	478-5848-2-ND ***NEW!***	2,500	391.00/M	NOJT226M004RWJ
	47	20	A	18	3.8	2200	478-5529-1-ND	.60	.53	.46	478-5529-2-ND	2,000	204.00/M	NOJA476M004RWJ
	68	20	B	6	5.4	1500	478-5852-1-ND ***NEW!***	.78	.68	.59	478-5852-2-ND ***NEW!***	2,000	264.00/M	NOJB686M004RWJ
	100	20	C	6	8	400	478-1824-1-ND†	.75	.66	.57	478-1824-2-ND	500	136.50	NOJC107M004RWJ
6.3	4.7	20	A	6	1.1	3100	478-3213-1-ND†	.40	.35	.31	478-3213-2-ND	2,000	129.00/M	NOJA475M006RWJ
	6.8	20	S	8	1.0	2700	478-5846-1-ND ***NEW!***	.10	.09	.08	478-5846-2-ND ***NEW!***	2,500	33.00/M	NOJS685M006RWJ
	10	20	A	6	1.2	2200	478-1821-1-ND†	.40	.35	.31	478-1821-2-ND	2,000	136.00/M	NOJS475M006RWJ
	15	20	A	8	1.8	2000	478-5851-1-ND ***NEW!***	.40	.35	.31	478-5851-2-ND ***NEW!***	2,000	136.00/M	NOJA156M006RWJ
	22	20	B	6	2.64	1900	478-1823-1-ND†	.50	.44	.38	478-1823-2-ND	2,000	170.00/M	NOJB226M006RWJ
	33	20	B	6	4.0	1700	478-3215-1-ND	.74	.65	.57	478-3215-2-ND	2.000	239.00/M	NOJB336M006RWJ
	47	20	C	6	5.7	500	478-3217-1-ND†	.96	.84	.73	478-3217-2-ND	500	166.00	NOJC476M006RWJ
	68	20	C	6	8.2	500	478-3218-1-ND†	1.20	1.04	.91	478-3218-2-ND	500	206.50	NOJC686M006RWJ
	100	20	D	6	12.0	400	478-1825-1-ND†	1.05	.92	.80	478-1825-2-ND	500	191.00	NOJD107M006RWJ
	100	20	B	20	60.0	1700	478-4919-1-ND	.95	.83	.73	478-4919-2-ND	2,000	323.00/M	NOJB107M006RWJ
	150	20	D	6	18.0	400	478-1826-1-ND†	1.25	1.09	.95	478-1826-2-ND	500	227.50	NOJD157M006RWJ
	220	20	E	12	26.4	400	478-1827-1-ND†	3.00	2.61	2.28	478-1827-2-ND	400	436.80	NOJE227M006RWJ
	330	20	E	12	39.6	300	478-1828-1-ND†	3.93	3.42	2.99	478-1828-2-ND	400	571.60	NOJE337M006RWJ
10	4.7	20	A	6	1.0	3100	478-3120-1-ND	.36	.32	.28	478-3120-2-ND	2,000	124.00/M	NOJA475M010RWJ
	4.7	20	T	6	1.0	3100	478-5841-1-ND ***NEW!***	1.17	1.02	.89	478-5841-2-ND ***NEW!***	2,500	396.00/M	NOJT475M010RWJ
	6.8	20	T	6	1.4	2600	478-5842-1-ND ***NEW!***	1.17	1.02	.89	478-5842-2-ND ***NEW!***	2,500	396.00/M	NOJT685M010RWJ
	10	20	A	6	2.0	2200	478-3121-1-ND	.41	.36	.31	478-3121-2-ND	2,000	138.00/M	NOJA106M010RWJ
	10	20	B	6	2.0	2200	478-3122-1-ND	.47	.42	.36	478-3122-2-ND	2,000	161.00/M	NOJB106M010RWJ
	10	20	T	6	2.0	2200	478-5847-1-ND ***NEW!***	1.14	1.00	.87	478-5847-2-ND ***NEW!***	2,500	388.00/M	NOJT106M010RWJ
	15	20	B	6	3.0	2000	478-3220-1-ND†	.57	.50	.44	478-3220-2-ND	2.000	184.00/M	NOJB156M010RWJ
	22	20	B	6	4.4	1800	478-3123-1-ND	.68	.59	.52	478-3123-2-ND	2,000	230.00/M	NOJB226M010RWJ
	22	20	C	6	4.4	500	478-3124-1-ND	.95	.83	.72	478-3124-2-ND	500	172.00	NOJC226M010RWJ
	33	20	C	6	6.6	500	478-3125-1-ND	.95	.83	.72	478-3125-2-ND	500	172.00	NOJC336M010RWJ
	47	20	C	6	9.4	400	478-3126-1-ND	.95	.83	.72	478-3126-2-ND	500	172.00	NOJC476M010RWJ

† 478-3445-ND ***NOJ Series Capacitors Kit*** 5 each of values denoted (150 total pieces). See Digi-Key's website for complete list of parts. **$46.25**

NOS Low ESR Series

• **Temperature Range:** -55°C ~ 125°C

Rated Voltage (V)	Capac-itance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
1.8	470	20	Y	8	16.9	100	478-3222-1-ND†	6.00	5.22	4.56	478-3222-2-ND	1,000	2075.00	NOSY477M001R0100
2.5	220	20	C	8	11.0	80	478-3226-1-ND†	2.60	2.27	1.98	478-3226-2-ND	500	449.50	NOSC227M002R0080
	470	20	D	10	23.5	100	478-3228-1-ND†	5.90	5.14	4.49	478-3228-2-ND	500	1020.00	NOSD477M002R0100
4	47	20	W	6	3.8	150	478-3233-1-ND†	3.00	2.61	2.28	478-3233-2-ND	1,000	1037.00	NOSW476M004R0150
	68	20	C	6	5.4	200	478-3234-1-ND†	2.25	1.96	1.71	—	—	—	NOSC686M004R0200
	100	20	C	6	8.0	70	478-3235-1-ND†	2.81	2.45	2.14	478-3235-2-ND	500	486.00	NOSC107M004R0070
	150	20	Y	6	12.0	100	478-3237-1-ND†	6.00	5.22	4.56	478-3237-2-ND	1,000	2075.00	NOSY157M004R0100
	220	20	D	8	17.6	60	478-3239-1-ND†	9.95	8.66	7.57	478-3239-2-ND	500	1720.50	NOSD227M004R0060
	330	20	D	8	26.4	100	478-1830-1-ND†	3.60	3.14	2.74	478-1830-2-ND	500	655.00	NOSD337M004R0100
6.3	10	20	A	6	1.2	2000	478-3243-1-ND†	.88	.77	.67	478-3243-2-ND	2,000	283.00/M	NOSA106M006R2000
	22	20	B	6	2.6	600	478-3244-1-ND†	1.08	.94	.82	478-3244-2-ND	2,000	347.00/M	NOSB226M006R0600
	33	20	B	6	4.0	600	478-3245-1-ND†	1.08	.94	.82	478-3245-2-ND	2,000	347.00/M	NOSB336M006R0600
	33	20	W	6	4.0	250	478-3252-1-ND†	2.71	2.36	2.06	478-3252-2-ND	1,000	985.00	NOSW336M006R0250
	47	20	B	6	5.6	500	478-5984-1-ND ***NEW!***	1.08	.94	.82	478-5984-2-ND ***NEW!***	2,000	366.00/M	NOSB476M006R0500
	68	20	C	6	8.2	200	478-3246-1-ND†	2.35	2.05	1.79	478-3246-2-ND	500	406.50	NOSC686M006R0200
	100	20	D	6	12.0	100	478-1829-1-ND	2.35	2.05	1.79	478-1829-2-ND	500	427.50	NOSD107M006R0100
	100	20	D	6	12.0	80	478-3247-1-ND†	9.95	8.66	7.57	478-3247-2-ND	500	1720.50	NOSD107M006R0080
	150	20	D	6	18.0	70	478-3248-1-ND†	9.95	8.66	7.57	478-3248-2-ND	500	1720.50	NOSD157M006R0070
	220	20	D	8	26.4	100	478-3249-1-ND†	4.00	3.48	3.04	478-3249-2-ND	500	727.00	NOSD227M006R0100
	330	20	E	12	39.6	80	478-3251-1-ND†	8.80	7.66	6.69	478-3251-2-ND	400	1217.20	NOSE337M006R0080
	470	20	V	12	56.4	75	478-3253-1-ND†	11.90	10.36	9.05	478-3253-2-ND	400	1646.00	NOSV477M006R0075

† 478-3446-ND ***NOS Series Capacitors Kit*** 5 each of values denoted (150 total pieces). See Digi-Key's website for complete list of parts. **$46.25**

NEW! NLJ Series

• **Temperature Range:** -55°C ~ 105°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
							1	10	100		Qty.	Pricing	
4	22	20	P	8.8	4000	478-5655-1-ND	1.40	1.22	1.07	478-5655-2-ND	2,500	476.00/M	NLJP226M004R4000
	150	20	B	60.0	1500	478-5654-1-ND	1.30	1.14	.99	478-5654-2-ND	2,000	442.00/M	NLJB157M004R1500
6.3	47	20	A	28.2	1600	478-5652-1-ND	1.55	1.35	1.18	478-5652-2-ND	2,000	527.00/M	NLJA476M006R1600
	47	20	T	28.2	1600	478-5656-1-ND	2.10	1.83	1.60	478-5656-2-ND	2,500	714.00/M	NLJT476M006R1600
	100	20	B	60.0	1700	478-5653-1-ND	1.10	.96	.84	478-5653-2-ND	2,000	374.00/M	NLJB107M006R1700

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Tantalum Dipped / Radial Capacitors

T350 and T356 "UltraDip II" Series

The KEMET "UltraDip II" Series, miniature dipped solid tantalum capacitors, provide the designer with the advantage of compactness plus low leakage and low DF performance characteristics for filtering, bypassing, coupling, blocking and RC timing circuits.

The plastic case provides a tough barrier coating and maintains precision of lead wire spacing within ±0.015 inch.

All case sizes are printed with capacitance, voltage, polarity and vendor identification, these self-insulating cases are resistant to shock and vibration.

The gold color epoxy permits Laser marking with outstanding permanency and legibility.

Solid tantalum devices exhibit no degradation failure mode during shelf storage.

These capacitors exhibit low DCL, ESR and Impedance and have excellent temperature stability. *The ESR values provided are for reference only.*

- **Operating Temperature:** -55°C ~ 85°C (125°C with voltage derating)
- **Capacitance Tolerance (%):** ±10

T350 Series

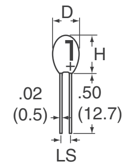

T356 Series

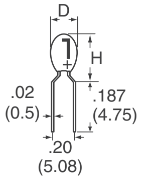

WV (DC)	Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dimensions – mm			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
T350 Series												
6.3	4.7	10	0.5	5	4.5	7.1	2.54	399-3543-ND	.79	.59	.41	T350A475K006AT
	6.8	8	0.5	5	4.5	7.1	2.54	399-3546-ND	.88	.68	.49	T350A685K006AT
	10	6	0.5	6	4.5	7.6	2.54	399-3548-ND	.97	.77	.58	T350B106K006AT
	15	5	0.7	6	5.0	8.4	2.54	399-3557-ND	1.09	.86	.65	T350C156K006AT
	22	3.7	1.1	6	5.0	8.6	2.54	399-3561-ND	1.19	.95	.71	T350D226K006AT
	33	3	1.6	6	5.5	8.9	2.54	399-3571-ND	1.27	1.01	.76	T350E336K006AT
	47	2	2.3	6	6.0	9.9	2.54	399-3577-ND	1.30	1.03	.78	T350F476K006AT
	68	1.8	3.3	6	6.3	10.2	2.54	399-3582-ND	1.54	1.22	.92	T350G686K006AT
	100	1.6	4.8	8	7.6	10.2	2.54	399-3583-ND	2.97	2.41	1.84	T350H107K006AT
	150	0.9	7.2	8	8.4	12.7	5.08	399-3590-ND	3.47	2.80	2.19	T350J157K006AT
10	2.2	13	0.5	5	4.5	7.1	2.54	399-3536-ND	.88	.68	.49	T350A225K010AT
	3.3	10	0.5	5	4.5	7.1	2.54	399-3540-ND	.88	.68	.49	T350A335K010AT
	4.7	8	0.5	5	4.5	7.1	2.54	399-3544-ND	.89	.68	.49	T350A475K010AT
	6.8	6	0.5	5	4.5	7.6	2.54	399-3555-ND	1.09	.86	.65	T350B685K010AT
	10	5	0.8	6	5.0	8.4	2.54	399-3556-ND	1.09	.86	.65	T350C106K010AT
	15	3.7	1.2	6	5.5	8.9	2.54	399-3567-ND	1.19	.95	.71	T350E156K010AT
	22	2.7	1.8	6	5.5	8.9	2.54	399-3570-ND	1.34	1.06	.80	T350E226K010AT
	33	2.1	2.6	6	6.0	9.9	2.54	399-3576-ND	1.44	1.14	.86	T350F336K010AT
	47	1.7	3.8	6	7.6	10.2	2.54	399-3586-ND	2.07	1.68	1.28	T350H476K010AT
	68	1.3	5.4	6	7.6	10.2	2.54	399-3587-ND	2.97	2.41	1.84	T350H686K010AT
	100	1	8.0	8	8.4	12.7	5.08	399-3588-ND	3.47	2.80	2.19	T350J107K010AT
16	1.5	10	0.5	5	4.5	7.1	2.54	399-3532-ND	.98	.73	.50	T350A155K016AT
	2.2	8	0.5	5	4.5	7.1	2.54	399-3537-ND	.88	.68	.49	T350A225K016AT
	3.3	6	0.5	5	4.5	7.1	2.54	399-3541-ND	.88	.68	.49	T350A335K016AT
	4.7	5	0.6	5	4.5	7.6	2.54	399-3553-ND	.97	.77	.58	T350B475K016AT
	6.8	4	0.9	5	5.0	8.4	2.54	399-3560-ND	1.13	.90	.67	T350C685K016AT
	10	3.2	1.3	6	5.5	8.9	2.54	399-3563-ND	1.21	.93	.67	T350E106K016AT
	15	2.5	1.8	6	5.5	8.9	2.54	399-3568-ND	1.42	1.12	.84	T350E156K016AT
	22	2	2.6	6	6.0	9.9	2.54	399-3574-ND	1.30	1.03	.78	T350F226K016AT
	33	1.6	4.0	6	7.6	10.2	2.54	399-3585-ND	2.07	1.68	1.28	T350H336K016AT
	47	1.3	5.6	6	8.4	12.7	5.08	399-3592-ND	3.17	2.56	1.96	T350J476K016AT
	68	1	8.2	6	8.9	13.5	5.08	399-3597-ND	3.47	2.80	2.19	T350K686K016AT
	100	0.8	10.0	8	8.9	16.0	5.08	399-3598-ND	6.00	5.40	4.08	T350L107K016AT
20	10	2.9	1.6	6	5.5	8.9	2.54	399-3564-ND	1.34	1.06	.80	T350E106K020AT
	100	0.6	10.0	8	10.2	17.0	5.08	399-3599-ND	6.19	5.50	4.40	T350M107K020AT
25	1.0	10	0.5	3	4.5	7.1	2.54	399-3528-ND	.89	.68	.49	T350A105K025AT
	1.5	8	0.5	5	4.5	7.1	2.54	399-3533-ND	.89	.68	.49	T350A155K025AT
	2.2	6	0.5	5	4.5	7.6	2.54	399-3550-ND	.97	.77	.58	T350B225K025AT
	3.3	5	0.7	5	4.5	7.6	2.54	399-3551-ND	.97	.77	.58	T350B335K025AT
	4.7	4	0.9	5	5.0	8.4	2.54	399-3559-ND	1.16	.92	.69	T350C475K025AT
	6.8	3.1	1.4	5	5.5	8.9	2.54	399-3573-ND	1.42	1.12	.84	T350E685K025AT
	10	2.5	2.0	6	5.5	8.9	2.54	399-3565-ND	1.42	1.12	.84	T350E106K025AT
	15	2	3.0	6	6.3	10.2	2.54	399-3580-ND	2.50	2.02	1.55	T350G156K025AT
	22	1.5	4.4	6	7.6	10.2	2.54	399-3584-ND	2.97	2.41	1.84	T350H226K025AT
	33	1.2	6.6	6	8.4	12.7	5.08	399-3591-ND	3.47	2.80	2.19	T350J336K025AT
	47	1	9.4	6	8.9	13.5	5.08	399-3596-ND	4.26	3.84	2.90	T350K476K025AT
35	.10	26	0.5	3	4.5	7.1	2.54	399-3526-ND	.88	.68	.49	T350A104K035AT
	.15	21	0.5	3	4.5	7.1	2.54	399-3530-ND	.88	.68	.49	T350A154K035AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3534-ND	.88	.68	.49	T350A224K035AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3538-ND	.89	.68	.49	T350A334K035AT
	.47	13	0.5	3	4.5	7.1	2.54	399-3542-ND	.89	.68	.49	T350A474K035AT
	.68	10	0.5	3	4.5	7.1	2.54	399-3545-ND	.88	.68	.49	T350A684K035AT
	1.0	8	0.5	3	4.5	7.1	2.54	399-3529-ND	.88	.68	.49	T350A105K035AT
	1.5	6	0.5	5	4.5	7.6	2.54	399-3549-ND	1.00	.76	.55	T350B155K035AT
	2.2	5	0.6	5	5.0	8.4	2.54	399-3558-ND	.97	.77	.58	T350C225K035AT
	3.3	4	0.9	5	5.0	8.6	2.54	399-3562-ND	1.12	.89	.67	T350D335K035AT
	4.7	3	1.3	5	5.5	8.9	2.54	399-3572-ND	1.19	.95	.71	T350E475K035AT
	6.8	2.5	1.9	5	6.0	9.9	2.54	399-3578-ND	1.23	.98	.73	T350F685K035AT
	10	2	2.8	6	6.3	10.2	2.54	399-3579-ND	1.87	1.52	1.16	T350G106K035AT
	15	1.6	4.2	6	8.4	12.7	5.08	399-3589-ND	3.27	2.64	2.06	T350J156K035AT
	22	1.3	6.2	6	8.9	13.5	5.08	399-3595-ND	3.27	2.64	2.06	T350K226K035AT
	47	0.8	10.0	6	10.2	17.0	5.08	399-3600-ND	6.19	5.50	4.40	T350M476K035AT
50	.10	26	0.5	3	4.5	7.1	2.54	399-3527-ND	.97	.74	.53	T350A104K050AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3535-ND	.97	.74	.53	T350A224K050AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3539-ND	.97	.74	.53	T350A334K050AT
	.47	13	0.5	3	4.5	7.6	2.54	399-3552-ND	.97	.77	.58	T350B474K050AT
	.68	10	0.5	3	4.5	7.6	2.54	399-3554-ND	.97	.77	.58	T350B684K050AT
	1.0	8	0.5	3	4.5	7.6	2.54	399-3547-ND	.97	.77	.58	T350B105K050AT
	1.5	5	0.6	5	5.5	8.9	2.54	399-3566-ND	1.34	1.06	.80	T350E155K050AT
	2.2	3.5	0.9	5	5.5	8.9	2.54	399-3569-ND	1.42	1.12	.84	T350E225K050AT
	3.3	3	1.3	5	6.0	9.9	2.54	399-3575-ND	1.44	1.14	.86	T350F335K050AT
50	4.7	2.5	1.9	5	6.3	10.2	2.54	399-3581-ND	1.80	1.43	1.07	T350G475K050AT
	6.8	2	2.7	5	8.4	12.7	5.08	399-3593-ND	3.15	2.54	1.99	T350J685K050AT
	10	1.6	4.0	6	8.9	13.5	5.08	399-3594-ND	4.47	4.03	3.04	T350K106K050AT
T356 Series												
6.3	4.7	10	0.5	5	4.5	8.6	5.08	399-3618-ND	.79	.59	.41	T356A475K006AT
	10	6	0.5	6	4.5	8.9	5.08	399-3623-ND	.97	.77	.67	T356B106K006AT
	15	5	0.7	6	5.0	9.6	5.08	399-3632-ND	1.09	.86	.65	T356C156K006AT
	22	3.7	1.1	6	5.0	9.9	5.08	399-3636-ND	1.19	.95	.71	T356D226K006AT
	33	3	1.6	6	5.5	10.2	5.08	399-3646-ND	1.27	1.01	.76	T356E336K006AT
	47	2	2.3	6	6.0	11.2	5.08	399-3652-ND	1.30	1.03	.78	T356F476K006AT
	68	1.8	3.3	6	6.3	11.4	5.08	399-3657-ND	1.54	1.22	.92	T356G686K006AT
	100	1.6	4.8	8	7.6	11.9	5.08	399-3658-ND	2.97	2.41	1.84	T356H107K006AT
	150	0.9	7.2	8	8.4	14.0	5.08	399-3665-ND	3.47	2.80	2.19	T356J157K006AT
10	2.2	13	0.5	5	4.5	8.6	5.08	399-3611-ND	.88	.68	.49	T356A225K010AT
	3.3	10	0.5	5	4.5	8.6	5.08	399-3615-ND	.88	.68	.49	T356A335K010AT
	4.7	8	0.5	5	4.5	8.6	5.08	399-3619-ND	.88	.68	.49	T356A475K010AT
	6.8	6	0.5	5	4.5	8.9	5.08	399-3630-ND	1.09	.86	.65	T356B685K010AT
	10	5	0.8	6	5.0	9.6	5.08	399-3631-ND	1.09	.86	.65	T356C106K010AT
	22	2.7	1.8	6	5.5	10.2	5.08	399-3645-ND	1.34	1.06	.80	T356E226K010AT
	33	2.1	2.6	6	6.0	11.2	5.08	399-3651-ND	1.44	1.14	.86	T356F336K010AT
	47	1.7	3.8	6	7.6	11.9	5.08	399-3661-ND	2.07	1.68	1.28	T356H476K010AT
	68	1.3	5.4	6	7.6	11.9	5.08	399-3662-ND	2.97	2.41	1.84	T356H686K010AT
	100	1	8.0	8	8.4	14.0	5.08	399-3663-ND	3.47	2.80	2.19	T356J107K010AT
15	1.5	10	0.5	5	4.5	8.6	5.08	399-3607-ND	.88	.68	.49	T356A155K016AT
	2.2	8	0.5	5	4.5	8.6	5.08	399-3612-ND	.88	.68	.49	T356A225K016AT
	3.3	6	0.5	5	4.5	8.6	5.08	399-3616-ND	.88	.68	.49	T356A335K016AT
	4.7	5	0.6	5	4.5	8.9	5.08	399-3628-ND	.97	.77	.58	T356B475K016AT
	6.8	4	0.9	5	5.0	9.6	5.08	399-3635-ND	1.13	.90	.67	T356C685K016AT
	10	3.2	1.3	6	5.5	10.2	5.08	399-3638-ND	1.08	.86	.64	T356E106K016AT
	15	2.5	1.8	6	5.5	10.2	5.08	399-3643-ND	1.42	1.12	.84	T356E156K016AT
	22	2	2.6	6	6.0	11.2	5.08	399-3649-ND	1.30	1.03	.78	T356F226K016AT
	33	1.6	4.0	6	7.6	11.9	5.08	399-3660-ND	2.07	1.68	1.28	T356H336K016AT
	47	1.3	5.6	6	8.4	14.0	5.08	399-3667-ND	3.17	2.56	1.96	T356J476K016AT
	68	1	8.2	6	8.9	15.5	5.08	399-3672-ND	3.47	2.80	2.19	T356K686K016AT
	100	0.8	10.0	8	8.9	18.1	5.08	399-3673-ND	6.00	5.40	4.08	T356L107K016AT
20	10	2.9	1.6	6	5.5	10.2	5.08	399-3639-ND	1.34	1.06	.80	T356E106K020AT
	100	0.6	10.0	8	10.2	18.8	5.08	399-3674-ND	6.19	5.50	4.40	T356M107K020AT
25	1.0	10	0.5	3	4.5	8.6	5.08	399-3603-ND	.89	.68	.49	T356A105K025AT
	1.5	8	0.5	5	4.5	8.6	5.08	399-3608-ND	.88	.68	.49	T356A155K025AT
	2.2	6	0.5	5	4.5	8.9	5.08	399-3625-ND	.97	.77	.58	T356B225K025AT
	3.3	5	0.7	5	4.5	8.9	5.08	399-3626-ND	.97	.77	.58	T356B335K025AT
	4.7	4	0.9	5	5.0	9.6	5.08	399-3634-ND	1.16	.92	.69	T356C475K025AT
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-3648-ND	1.42	1.12	.84	T356E685K025AT
	10	2.5	2.0	6	5.5	10.2	5.08	399-3640-ND	1.42	1.12	.84	T356E106K025AT
	15	2	3.0	6	6.3	11.4	5.08	399-3655-ND	2.50	2.02	1.55	T356G156K025AT
	22	1.5	4.4	6	7.6	11.9	5.08	399-3659-ND	2.97	2.41	1.84	T356H226K025AT
	33	1.2	6.6	6	8.4	14.0	5.08	399-3666-ND	3.47	2.80	2.19	T356J336K025AT
	47	1.2	9.4	6	8.9	15.5	5.08	399-3671-ND	4.26	3.84	2.90	T356K476K025AT
35	.10	26	0.5	3	4.5	8.6	5.08	399-3601-ND	.89	.68	.49	T356A104K035AT
	.15	21	0.5	3	4.5	8.6	5.08	399-3605-ND	.88	.68	.49	T356A154K035AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3609-ND	.88	.68	.49	T356A224K035AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3613-ND	.88	.68	.49	T356A334K035AT
	.47	13	0.5	3	4.5	8.6	5.08	399-3617-ND	.88	.68	.49	T356A474K035AT
	.68	10	0.5	3	4.5	8.6	5.08	399-3620-ND	.88	.68	.49	T356A684K035AT
	1.0	8	0.5	3	4.5	8.6	5.08	399-3604-ND	.88	.68	.49	T356A105K035AT
	1.5	6	0.5	5	4.5	8.9	5.08	399-3624-ND	1.00	.77	.55	T356B155K035AT
	2.2	5	0.6	5	5.0	9.6	5.08	399-3633-ND	.97	.77	.58	T356C225K035AT
	3.3	4	0.9	5	5.0	9.9	5.08	399-3637-ND	1.26	.96	.69	T356D335K035AT
	4.7	3	1.3	5	5.5	10.2	5.08	399-3647-ND	1.19	.95	.71	T356E475K035AT
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-3653-ND	1.23	.98	.73	T356F685K035AT
	10	2	2.8	6	6.3	11.4	5.08	399-3654-ND	1.87	1.52	1.16	T356G106K035AT
	15	1.6	4.2	6	8.4	14.0	5.08	399-3664-ND	3.27	2.64	2.06	T356J156K035AT
	22	1.3	6.2	6	8.9	15.5	5.08	399-3670-ND	3.27	2.64	2.06	T356K226K035AT
	47	0.8	10.0	6	10.2	18.8	5.08	399-3675-ND	6.88	6.19	5.09	T356M476K035AT
50	.10	26	0.5	3	4.5	8.6	5.08	399-3602-ND	.97	.74	.53	T356A104K050AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3610-ND	.97	.74	.53	T356A224K050AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3614-ND	.97	.74	.53	T356A334K050AT
	.47	13	0.5	3	4.5	8.9	5.08	399-3627-ND	.97	.77	.58	T356B474K050AT
	.68	10	0.5	3	4.5	8.9	5.08	399-3629-ND	.97	.77	.58	T356B684K050AT
	1.0	8	0.5	3	4.5	8.9	5.08	399-3622-ND	.97	.77	.58	T356B105K050AT
	1.5	5	0.6	5	5.5	10.2	5.08	399-3641-ND	1.34	1.06	.80	T356E155K050AT
	2.2	3.5	0.9	5	5.5	10.2	5.08	399-3644-ND	1.42	1.12	.84	T356E225K050AT
	3.3	3	1.3	5	6.0	11.2	5.08	399-3650-ND	1.44	1.14	.86	T356F335K050AT
	4.7	2.5	1.9	5	6.3	11.4	5.08	399-3656-ND	1.80	1.43	1.07	T356G475K050AT
	6.8	2	2.7	5	8.4	14.0	5.08	399-3668-ND	3.15	2.54	1.99	T356J685K050AT
	10	1.6	4.0	6	8.9	15.5	5.08	399-3669-ND	4.47	4.03	3.04	T356K106K050AT

KEMET CHARGED.

High-Temperature Wet Tantalum Capacitors

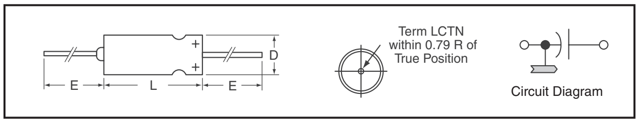

Applications: • Filtering, bypass circuits • Coupling and timing circuits • Low source impedance circuits • High charging current circuits
Features: • Operating Temperature: -55°C ~ 200°C, derated voltage • Volts, 6-125 • Low ESR • Tantalum case

WV (DC)	Cap. (µF)	Cap. Tol.	Maximum D.C. Leakage µA@25°C	Max. DF @25°C 120Hz	Max. ESR Ω @25°C 120Hz	Max. Ripple Current mArms @85°C 40kHz	Dimensions - mm L (Maximum)	D (Maximum)	E ± 6.35	Kemet Case Size	MIL-PRF-39006/22/25/30/31 Case Size	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
6V@85°C (3V@200°C)	30	10%	1	9	3.98	820	12.29	5.56	38.10	A	T1	399-3412-ND	30.00	29.25	24.75	T197A306K006AS
8V@85°C (4V@200°C)	56	10%	1	14	3.32	900	12.29	5.56	38.10	A	T1	399-3415-ND	30.00	29.25	24.75	T197A566K008AS
15V@85°C (7.5V@200°C)	15	10%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3406-ND	30.00	29.25	24.75	T197A156K015AS
30V@85°C (15V@200°C)	15	20%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3407-ND	30.00	29.25	24.75	T197A156M030AS
50V@85°C (25V@200°C)	33	10%	2	12.3	4.95	700	12.29	5.56	38.10	A	T1	399-3426-ND	34.00	33.15	28.05	T198A336K050AS
100V@85°C (50V@200°C)	2.5	10%	1	2	10.62	505	12.29	5.56	38.10	A	T1	399-3411-ND	30.00	29.25	24.75	T197A255K100AS
125V@85°C (62.5V@200°C)	1.7	10%	1	2	15.61	415	12.29	5.56	38.10	A	T1	399-3408-ND	30.00	22.50	18.00	T197A175K125AS

Molded Axial Tantalum Capacitors T322 Series

RoHS COMPLIANT

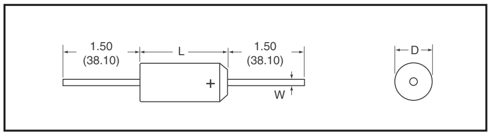

The KEMET T322 Series offers a complete line of extended range molded solid tantalum capacitors. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.
Applications: Decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers. The ESR values provided are for reference only.
Specifications: Capacitance Tolerance (%): ±10 • Operating Temperature: -55°C ~ 85°C (125°C with voltage derating)

WV (DC)	Cap. (µF)	ESR Ω @ 100KHz @ +25°C	D.C. Leakage µA @ 25°C	Max. DF % @ 25°C 120Hz	Dimensions (mm) D	L	W	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No .
6.3	3.3	13	0.5	4	2.4	6.6	.51	399-4528-ND	.99	.78	.59	T322A335K006AT
	4.7	10	0.5	4	2.4	6.6	.51	399-4529-ND	.99	.78	.59	T322A475K006AT
	10	6.0	0.5	6	2.8	7.4	.51	399-4531-ND	1.08	.86	.64	T322B106K006AT
	15	5.0	0.7	6	2.8	7.4	.51	399-4532-ND	1.08	.86	.64	T322B156K006AT
	22	3.7	1.1	6	4.6	8.8	.51	399-4533-ND	1.70	1.38	1.06	T322C226K006AT
	47	2.0	2.3	6	4.6	10.7	.51	399-4535-ND	1.90	1.54	1.18	T322D476K006AT
	68	1.8	3.3	6	4.6	10.7	.51	399-4536-ND	2.05	1.67	1.27	T322D686K006AT
	150	0.9	5.0	8	7.1	13.5	.64	399-4538-ND	4.31	3.48	2.72	T322E157K006AT
	220	0.9	10.0	8	7.1	13.5	.64	399-4539-ND	4.63	4.17	3.15	T322E227K006AT
	330	0.7	10.0	8	7.6	18.0	.64	399-4540-ND	9.08	8.07	6.46	T322F337K006AT
10	2.2	13	0.5	4	2.4	6.6	.51	399-4541-ND	.99	.78	.59	T322A225K010AT
	4.7	8.0	0.5	4	2.8	7.4	.51	399-4543-ND	1.08	.86	.64	T322B475K010AT
	10	5.0	0.8	6	2.8	7.4	.51	399-4545-ND	1.08	.86	.64	T322B106K010AT
	22	2.7	1.5	6	4.6	8.8	.51	399-4547-ND	1.70	1.38	1.06	T322C226K010AT
	33	2.1	2.6	6	4.6	10.7	.51	399-4548-ND	2.12	1.68	1.26	T322D336K010AT
	47	1.7	3.8	6	4.6	10.7	.51	399-4549-ND	2.05	1.67	1.27	T322D476K010AT
	100	1.0	8.0	8	7.1	13.5	.64	399-4551-ND	4.31	3.48	2.72	T322E107K010AT
	220	0.6	10.0	8	7.6	18.0	.64	399-4553-ND	9.08	8.07	6.46	T322F227K010AT
15	1.5	10	0.5	4	2.4	6.6	.51	399-4554-ND	.99	.78	.59	T322A155K015AT
	2.2	8.0	0.5	4	2.4	6.6	.51	399-4555-ND	.99	.78	.59	T322A255K015AT
	3.3	6.0	0.5	4	2.8	7.4	.51	399-4556-ND	1.08	.86	.64	T322B335K015AT
	4.7	5.0	0.6	4	2.8	7.4	.51	399-4557-ND	1.22	.96	.72	T322B475K015AT
	6.8	4.0	0.8	6	2.8	7.4	.51	399-4558-ND	1.22	.96	.72	T322B685K015AT
	10	3.2	1.2	6	4.6	8.8	.51	399-4559-ND	1.70	1.38	1.06	T322C106K015AT
	15	2.5	1.5	6	4.6	8.8	.51	399-4560-ND	1.70	1.38	1.06	T322C156K015AT
	22	2.0	2.6	6	4.6	10.7	.51	399-4561-ND	1.90	1.54	1.18	T322D226K015AT
	33	1.6	4.0	6	4.6	10.7	.51	399-4562-ND	2.05	1.67	1.27	T322D336K015AT
	47	1.3	5.0	6	7.1	13.5	.64	399-4563-ND	4.31	3.48	2.72	T322E476K015AT
	68	1.0	8.2	6	7.1	13.5	.64	399-4565-ND	4.31	3.48	2.72	T322E686K015AT
	100	0.8	10.0	8	7.1	13.5	.64	399-4566-ND	4.63	4.17	3.15	T322E107K015AT
	150	0.6	10.0	8	7.6	18.0	.64	399-4567-ND	9.08	8.07	6.46	T322F157K015AT
20	1.0	10	0.5	4	2.4	6.6	.51	399-4568-ND	.99	.78	.59	T322A105K020AT
	1.5	9.0	0.5	4	2.4	6.6	.51	399-4569-ND	.99	.78	.59	T322A155K020AT
	2.2	7.0	0.5	4	2.8	7.4	.51	399-4570-ND	1.08	.86	.64	T322B225K020AT
	3.3	5.5	0.5	4	2.8	7.4	.51	399-4571-ND	1.08	.86	.64	T322B335K020AT
	4.7	4.5	0.8	4	2.8	7.4	.51	399-4572-ND	1.22	.96	.72	T322B475K020AT
	10	2.9	1.6	6	4.6	8.8	.51	399-4573-ND	1.70	1.38	1.06	T322C106K020AT
	15	2.3	2.4	6	4.6	10.7	.51	399-4574-ND	1.90	1.54	1.18	T322D156K020AT
	22	1.8	3.5	6	4.6	10.7	.51	399-4575-ND	2.05	1.67	1.27	T322D226K020AT
	33	1.4	5.0	6	7.1	13.5	.64	399-4576-ND	4.31	3.48	2.72	T322E336K020AT
	47	1.2	7.5	6	7.1	13.5	.64	399-4577-ND	4.31	3.48	2.72	T322E476K020AT
	68	0.9	10.0	6	7.1	13.5	.64	399-4578-ND	4.63	4.17	3.15	T322E686K020AT
	100	0.6	10.0	8	7.6	18.0	.64	399-4579-ND	9.08	8.07	6.46	T322F107K020AT
25	.47	16	0.5	3	2.4	6.6	.51	399-4580-ND	.99	.78	.59	T322A474K025AT
	.68	12	0.5	3	2.4	6.6	.51	399-4581-ND	.99	.78	.59	T322A684K025AT
	1.0	10	0.5	3	2.4	6.6	.51	399-4582-ND	.99	.78	.59	T322A105K025AT
	1.5	8.0	0.5	3	2.8	7.4	.51	399-4583-ND	1.22	.96	.72	T322B155K025AT
	2.2	6.0	0.5	3	2.8	7.4	.51	399-4584-ND	1.22	.96	.72	T322B225K025AT
	3.3	5.0	0.7	3	2.8	7.4	.51	399-4585-ND	1.22	.96	.72	T322B335K025AT
	4.7	4.0	0.9	4	4.6	8.8	.51	399-4586-ND	1.70	1.38	1.06	T322C475K025AT
	6.8	3.1	1.4	4	4.6	8.8	.51	399-4587-ND	1.70	1.38	1.06	T322C685K025AT
	15	2.0	3.0	4	4.6	10.7	.51	399-4588-ND	2.05	1.67	1.27	T322D156K025AT
	22	1.5	4.4	6	7.1	13.5	.64	399-4589-ND	4.31	3.48	2.72	T322E226K025AT
	33	1.2	6.6	6	7.1	13.5	.64	399-4590-ND	4.31	3.48	2.72	T322E336K025AT
	47	1.0	9.4	6	7.1	13.5	.64	399-4591-ND	4.63	4.17	3.15	T322E476K025AT
	68	0.8	10.0	6	7.6	18.0	.64	399-4592-ND	9.08	8.07	6.46	T322F686K025AT
35	.10	26	0.5	3	2.4	6.6	.51	399-4593-ND	.99	.78	.59	T322A104K035AT
	.15	21	0.5	3	2.4	6.6	.51	399-4594-ND	.99	.78	.59	T322A154K035AT
	.22	17	0.5	3	2.4	6.6	.51	399-4595-ND	.99	.78	.59	T322A224K035AT
	.33	15	0.5	3	2.4	6.6	.51	399-4596-ND	.99	.78	.59	T322A334K035AT
	.47	13	0.5	3	2.4	6.6	.51	399-4597-ND	.99	.78	.59	T322A474K035AT
	.68	10	0.5	3	2.8	7.4	.51	399-4598-ND	1.08	.86	.64	T322B684K035AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4599-ND	1.08	.86	.64	T322B105K035AT
	1.5	6.0	0.5	3	2.8	7.4	.51	399-4600-ND	1.22	.96	.72	T322B155K035AT
	2.2	5.0	0.6	3	4.6	8.8	.51	399-4601-ND	1.70	1.38	1.06	T322C225K035AT
	3.3	4.0	0.9	4	4.6	8.8	.51	399-4602-ND	1.70	1.38	1.06	T322C335K035AT
	4.7	3.0	1.3	4	4.6	8.8	.51	399-4603-ND	1.70	1.38	1.06	T322C475K035AT
	6.8	2.5	1.9	4	4.6	10.7	.51	399-4604-ND	1.90	1.54	1.18	T322D685K035AT
	10	2.0	2.8	4	4.6	10.7	.51	399-4605-ND	2.05	1.67	1.27	T322D106K035AT
	15	1.6	4.2	6	7.1	13.5	.64	399-4606-ND	4.31	3.48	2.72	T322E156K035AT
	22	1.3	6.2	6	7.1	13.5	.64	399-4607-ND	4.31	3.48	2.72	T322E226K035AT
	33	1.0	9.2	6	7.1	13.5	.64	399-4608-ND	4.63	4.17	3.15	T322E336K035AT
	47	0.8	10.0	6	7.6	18.0	.64	399-4609-ND	9.08	8.07	6.46	T322F476K035AT
50	.10	26	0.5	3	2.4	6.6	.51	399-4610-ND	1.12	.89	.67	T322A104K050AT
	.22	17	0.5	3	2.4	6.6	.51	399-4612-ND	1.12	.89	.67	T322A224K050AT
	.33	15	0.5	3	2.8	7.4	.51	399-4613-ND	1.32	1.05	.79	T322B334K050AT
	.47	13	0.5	3	2.8	7.4	.51	399-4614-ND	1.32	1.05	.79	T322B474K050AT
	.68	10	0.5	3	2.8	7.4	.51	399-4615-ND	1.32	1.05	.79	T322B684K050AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4616-ND	1.46	1.16	.87	T322B105K050AT
	1.5	5.0	0.6	4	4.6	8.8	.51	399-4617-ND	1.93	1.57	1.20	T322C155K050AT
	2.2	3.5	0.9	4	4.6	8.8	.51	399-4618-ND	1.93	1.57	1.20	T322C225K050AT
	3.3	3.0	1.3	4	4.6	10.7	.51	399-4619-ND	2.58	2.09	1.60	T322D335K050AT
	4.7	2.5	1.9	4	4.6	10.7	.51	399-4620-ND	2.58	2.09	1.60	T322D475K050AT
	6.8	2.0	2.7	4	7.1	13.5	.64	399-4621-ND	3.82	3.44	2.60	T322E685K050AT
	10	1.6	4.0	6	7.1	13.5	.64	399-4622-ND	3.82	3.44	2.60	T322E106K050AT
	15	1.2	6.0	6	7.6	18.0	.64	399-4623-ND	10.03	9.53	7.52	T322F156K050AT
	22	1.0	8.8	6	7.6	18.0	.64	399-4624-ND	10.03	9.53	7.52	T322F226K050AT

Surface Mount Tantalum Chip Capacitors

KEMET's family of solid tantalum chip capacitors are designed and manufactured with the requirements of surface mount technology in mind. These devices extend the advantages of solid tantalum technology to today's surface mount circuit applications.

Operating Temperature Range: -55°C ~ 125°C (T520 Series: -55°C ~ 105°C, T498 Series: 150°C, T499 Series: 175°C)

T491 Series — Industrial: The leading choice in surface mount designs. This product meets or exceeds the requirements of EIA standard 535BAAC. The physical outline and dimensions of this series conform to this global standard. This product was designed specifically for highly automated surface mount processes and equipment.

T494 Series — Low ESR, Industrial Grade: The T494 is a low ESR series that is available in all the same case sizes and CV ratings as the T491 Series. The T494 offers low ESR performance with the economy of an industrial grade device. This series is targeted for output filtering.

T495 Series — Low ESR, Surge Robust: Designed primarily for output filtering in switch-mode power supplies and DC-to-DC converters. The standard CV T495 values are an excellent choice for battery-to-ground input filter applications. This series offers several important advantages: Very low ESR, high ripple current capability, excellent capacitance stability and improved ability to withstand high inrush currents.

T496 Series — Fused: KEMET also offers a "fail-safe" fused solid tantalum chip capacitor. The built-in fuse element provides excellent protection from damaging short circuit conditions in applications where high fault currents exist. Protection from costly circuit damage due to reversed installation is offered with this device.

T498 Series — High Temperature (150°C): The T498 Series is a high temperature version of KEMET's solid tantalum chip family that offers optimal performance in applications with operating temperatures of up to 150°C. Advancements in materials and testing have allowed for the introduction of this series which delivers a reliability level of 0.5% per 1000 hours at rated voltage at rated temperature.

T499 Series — High Temperature (175°C): The T499 Series is a high temperature version of KEMET's solid tantalum chip family. This series is designed for use in applications with operating temperatures up to 175°C. This product offers the highest operating temperature capability in a surface mount tantalum device available in the market place.

T510 Series — Ultra-Low ESR: KEMET's T510 Series offers the industry's lowest ESR in the popular EIA 7343-43 case size. The ultra-low ESR and high ripple current capability make it an ideal choice for SMPS filtering and power decoupling. KEMET has developed an innovative construction platform that incorporates multiple capacitor elements, in parallel, inside a single package.

T520 Series — KO-CAP Polymer Tantalum: The KO-CAP is a tantalum capacitor, with Ta anode and Ta_2O_5 dielectric. A conductive, organic, polymer replaces the MnO_2 as the cathode plate of the capacitor. This results in very low ESR and improved cap retention at high frequency. The KO-CAP also exhibits a benign failure mode, which eliminates the ignition failures that can occur in standard MnO_2 tantalum types. KO-CAPs may be operated at voltages up to 80% of rated voltage with equivalent or better reliability than standard tantalums operated at 50% of rated voltage.

T521 Series — KO-CAP Polymer Tantalum: KEMET's T521 series capacitor is a surface mount polymer tantalum capacitor that has been designed to deliver low ESR, high capacitance and high volumetric efficiency in applications of up to 25V.

T525 Series — KO-CAP Polymer Tantalum: The T525 has been targeted for power management applications. This series offers all of the same advantages as the T520 KO-CAP including very low ESR, improved capacitance retention at high frequency and a benign failure mode, to go along with 125°C capability.

T528 Series — Face Down Termination Tantalum: The T528 is an organic tantalum chip capacitor with face down termination, that features Low ESL and has a wide tolerance range of ±20%.

T530 Series — KO-MAT Polymer Tantalum: The KO-MAT is an extremely low ESR, volumetrically efficient, organic tantalum chip capacitor that offers high capacitance retention while preventing thermal events (ignition failures). Organic polymer does not give up oxygen if the dielectric fails short, thus preventing ignition. Organic polymer is more conductive than MnO_2 — lower ESR.

Higher capacitance retention at higher frequencies means fewer parts are required to achieve the desired capacitance.

The KO-MAT allows tantalum capacitors to be used in circuits never considered possible before, such as input filters. Initial focus is for power supplies and microprocessor circuits.

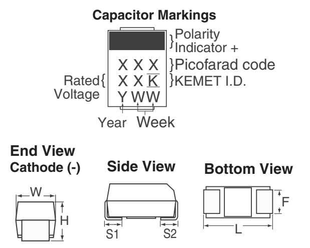

T528 Series Only

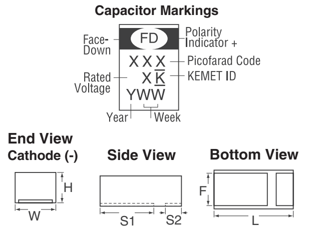

Size Code	EIA Code	Dimensions - mm					
		L	W	H	F ±0.1	S1 ±0.3	S2 ±0.3
A	3216-18	3.2 ±0.2	1.6 ±0.2	1.6 ±0.2	1.2	0.8	0.8
B	3528-21	3.5 ±0.2	2.8 ±0.2	1.9 ±0.2 (T520 Series: ±0.1)	2.2	0.8	0.8
C	6032-28	6.0 ±0.3	3.2 ±0.3	2.5 ±0.3	2.2	1.3	1.3
D	7343-31	7.3 ±0.3	4.3 ±0.3	2.8 ±0.3	2.4	1.3	1.3
E	7260-38	7.3 ±0.3	6.0 ±0.3	3.6 ±0.3	4.1	1.3	1.3
I	3216-10	3.2 ±0.2	1.3 ±0.2	1.0	1.2 Max.	1.0 ±0.2	0.7 ±0.2
K	3528-10	3.5 ±0.2	2.8 ±0.2	1.0 Max.	2.0	1.2	0.6
L	6032-19	6.0 ±0.3	3.2 ±0.3	1.9 Max.	2.2	1.3	1.3
M	3528-15	3.5 ±0.2	2.8 ±0.2	1.5 Max.	2.2	1.2	0.8
R	2012-12	2.0 ±0.2	1.3 ±0.2	1.2 Max.	0.9	0.5	0.5
T	3528-12	3.5 ±0.2	2.8 ±0.2	1.2 Max.	2.2	0.8	0.8
U	6032-15	6.0 ±0.3	3.2 ±0.3	1.5 Max.	2.2	1.3	1.3
V	7343-20	7.3 ±0.3	4.3 ±0.3	2.0 Max.	2.4	1.3	1.3
W	7343-15	7.3 ±0.3	4.3 ±0.3	1.5 Max.	2.4	1.3	1.3
X	7343-43	7.3 ±0.3	4.3 ±0.3	4.0 ±0.3	2.4	1.3	1.3
Y	7343-40	7.3 ±0.3	4.3 ±0.3	4.0 Max.	2.4	1.3	1.3
Z	7343-17	7.3 ±0.4	4.3 ±0.3	1.7 Max.	2.8	5.1 ±0.2	1.3 ±0.2

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
							T491 Series, Industrial							
4	68	±10	2.7	6	0.8	D	399-1549-1-ND	.94	7.87	16.15	—	—	—	T491D686K004AS
	150	±20	6	12	2.0	B	399-3340-1-ND	.94	7.89	16.99	—	—	—	T491B157M004AS
25	6.8	±20	1.7	6	1.9	C	399-1632-1-ND	.57	4.77	9.78	—	—	—	T491C685M025AS
							T491 Series, Industrial — RoHS Compliant							
2.5	220	±10	5.5	8	0.3	D	399-4771-1-ND	3.96	32.81	78.41	399-4771-2-ND	500	772.00	T491D227K2R5AT
4	33	±10	1.3	8	5.0	T	399-5172-1-ND	1.50	12.30	27.75	399-5172-2-ND	2,500	420.00/M	T491T336K004ZT
	47	±10	1.9	12	6.0	T	399-5173-1-ND	1.58	12.92	29.14	399-5173-2-ND	2,500	441.00/M	T491T476K004ZT
	68	±10	2.8	30	4.0	A	399-3701-1-ND	.80	6.70	13.75	399-3701-2-ND	2,000	160.00/M	T491A686K004AT
	68	±10	2.7	6	0.8	D	399-3801-1-ND	1.04	8.70	17.85	399-3801-2-ND	500	129.80	T491D686K004AT
	100	±20	4	30	4.0	A	399-3688-1-ND	.76	6.37	13.06	399-3688-2-ND	2,000	152.00/M	T491A107M004AT
	100	±20	4	8	1.0	B	399-3709-1-ND	1.04	8.70	18.73	399-3709-2-ND	2,000	268.00/M	T491B107M004AT
	100	±20	4	8	0.8	D	399-3771-1-ND	1.04	8.70	17.85	399-3771-2-ND	500	129.80	T491D107M004AT
	150	±20	6	12	2.0	B	399-3713-1-ND	1.04	8.70	18.73	399-3713-2-ND	2,000	268.00/M	T491B157M004AT
	220	±20	8.8	18	0.5	B	399-4625-1-ND	1.04	8.70	18.73	399-4625-2-ND	2,000	268.00/M	T491B227M004AT
	330	±10	13.2	10	1.2	C	399-3751-1-ND	2.00	16.40	37.00	399-3751-2-ND	500	340.00	T491C337K004AT
6.3	10	±10	0.6	6	4.0	A	399-3683-1-ND	.42	3.32	7.00	399-3683-2-ND	2,000	72.00/M	T491A106K006AT
	10	±20	0.6	6	4.0	A	399-3685-1-ND	.42	3.32	7.00	399-3685-2-ND	2,000	72.00/M	T491A106M006AT
	10	±10	0.6	6	3.5	B	399-3704-1-ND	.59	4.67	9.85	399-3704-2-ND	2,000	101.00/M	T491B106K006AT
	15	±10	0.9	6	5.0	T	399-5170-1-ND	1.45	11.89	26.83	399-5170-2-ND	2,500	406.00/M	T491T156K006ZT
	22	±10	1.4	6	3.5	B	399-3716-1-ND	.62	4.90	10.33	399-3716-2-ND	2,000	106.00/M	T491B226K006AT
	22	±10	1.4	6	1.8	C	399-3742-1-ND	.63	5.27	10.81	399-3742-2-ND	500	78.60	T491C226K006AT
	47	±20	3	12	3.5	A	399-3700-1-ND	.76	6.37	13.06	399-3700-2-ND	2,000	152.00/M	T491A476M006AT
	47	±10	2.9	6	1.6	C	399-3756-1-ND	.68	5.71	11.72	399-3756-2-ND	500	85.20	T491C476K006AT
	68	±20	4.1	8	1.0	B	399-3729-1-ND	1.04	8.70	18.73	399-3729-2-ND	2,000	268.00/M	T491B686M006AT
	68	±10	4.1	6	1.2	C	399-3764-1-ND	.83	6.96	14.29	399-3764-2-ND	500	103.90	T491C686K006AT
	68	±10	4.1	6	0.8	D	399-3802-1-ND	1.04	8.70	17.85	399-3802-2-ND	500	129.80	T491D686K006AT
	68	±10	5	30	4.0	A	399-4698-1-ND	.80	6.70	13.75	399-4698-2-ND	2,000	160.00/M	T491A686K006AT
	100	±20	6.3	15	3.0	B	399-3710-1-ND	1.04	8.70	18.73	399-3710-2-ND	2,000	268.00/M	T491B107M006AT
	100	±10	6.3	20	1.0	M	399-5155-1-ND	1.36	11.12	25.10	399-5155-2-ND	2,000	380.00/M	T491M107K006ZT
	100	±20	6.3	20	1.0	M	399-5156-1-ND	1.36	11.12	25.10	399-5156-2-ND	2,000	380.00/M	T491M107M006ZT
	150	±10	10	8	1.0	U	399-5174-1-ND	1.45	11.89	26.83	399-5174-2-ND	1,250	435.00/M	T491U157K006ZT
	220	±20	13.2	10	1.2	C	399-3748-1-ND	1.95	15.99	36.08	399-3748-2-ND	500	331.50	T491C227M006AT
	470	±10	29.6	10	0.4	E	399-4626-1-ND	6.60	62.00	145.00	399-4626-2-ND	500	1400.00	T491E477K006AT
	470	±20	28.2	12	0.5	D	399-3798-1-ND	3.79	31.45	75.16	399-3798-2-ND	500	740.00	T491D477M006AT
	680	±20	40.8	12	0.5	E	399-3805-1-ND	6.27	58.90	137.75	399-3805-2-ND	500	1330.00	T491E687M006AT
	1000	±10	63	20	0.6	X	399-5123-1-ND	3.88	32.21	76.98	399-5123-2-ND	400	682.00	T491X108K006ZT
10	2.2	±10	0.5	6	8.0	A	399-3690-1-ND	.53	4.20	8.60	399-3690-2-ND	2,000	76.40/M	T491A225K010AT
	3.3	±10	0.5	6	6.0	A	399-3694-1-ND	.53	4.20	8.60	399-3694-2-ND	2,000	76.40/M	T491A335K010AT
	3.3	±10	0.3	8	15.0	R	399-3807-1-ND	1.31	10.90	23.49	399-3807-2-ND	2,500	336.00/M	T491R335K010AT
	4.7	±10	0.5	6	6.0	A	399-3696-1-ND	.53	4.20	8.60	399-3696-2-ND	2,000	76.40/M	T491A475K010AT
	4.7	±20	0.5	6	6.0	A	399-3698-1-ND	.53	4.20	8.60	399-3698-2-ND	2,000	76.40/M	T491A475M010AT
	4.7	±10	0.5	6	3.5	B	399-3721-1-ND	.59	4.67	9.85	399-3721-2-ND	2,000	101.00/M	T491B475K010AT
	4.7	±20	0.5	6	3.5	B	399-3724-1-ND	.59	4.67	9.85	399-3724-2-ND	2,000	101.00/M	T491B475M010AT
	6.8	±10	0.7	6	3.5	B	399-3727-1-ND	.59	4.67	9.85	399-3727-2-ND	2,000	101.00/M	T491B685K010AT
	10	±10	1	6	4.0	A	399-3684-1-ND	.46	3.63	7.65	399-3684-2-ND	2,000	78.66/M	T491A106K010AT
	10	±20	1	6	4.0	A	399-3686-1-ND	.46	3.63	7.65	399-3686-2-ND	2,000	78.66/M	T491A106M010AT
	10	±10	1	6	3.5	B	399-3705-1-ND	.59	4.67	9.85	399-3705-2-ND	2,000	101.00/M	T491B106K010AT
	10	±20	1	6	3.5	B	399-3707-1-ND	.59	4.67	9.85	399-3707-2-ND	2,000	101.00/M	T491B106M010AT
	10	±10	1	6	1.8	C	399-3731-1-ND	.63	5.27	10.81	399-3731-2-ND	500	78.60	T491C106K010AT
	15	±10	1.5	8	5.0	T	399-5171-1-ND	1.50	12.30	27.75	399-5171-2-ND	2,500	420.00/M	T491T156K010ZT
	15	±10	1.5	6	3.5	B	399-3712-1-ND	.62	4.90	10.33	399-3712-2-ND	2,000	106.00/M	T491B156K010AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
10	15	±10	1.5	6	1.8	C	399-3737-1-ND	.63	5.27	10.81	399-3737-2-ND	500	78.60	T491C156K010AT
	22	±20	2.2	10	6.0	A	399-3692-1-ND	.76	6.37	13.06	399-3692-2-ND	2,000	152.00/M	T491A226M010AT
	22	±10	2.2	6	1.8	C	399-3743-1-ND	.63	5.27	10.81	399-3743-2-ND	500	78.60	T491C226K010AT
	22	±10	2.2	6	1.6	D	399-5599-1-ND	1.04	8.70	17.85	399-5599-2-ND	500	129.80	T491D226K010AT
	33	±10	3.3	15	6.0	A	399-5279-1-ND	.80	6.70	13.75	399-5279-2-ND	2,000	160.00/M	T491A336K010AT
	33	±10	3.3	6	0.8	D	399-3786-1-ND	.88	7.42	15.40	399-3786-2-ND	500	133.00	T491D336K010AT
	33	±10	3.3	24	5.0	T	399-5281-1-ND	1.62	13.29	29.99	399-5281-2-ND	2,500	454.00/M	T491T336K010AT
	47	±20	4.7	8	1.0	B	399-3726-1-ND	1.04	8.70	18.73	399-3726-2-ND	2,000	268.00/M	T491B476M010AT
	47	±10	4.7	6	1.2	C	399-3757-1-ND	.83	6.96	14.29	399-3757-2-ND	500	103.90	T491C476K010AT
	47	±20	4.7	6	1.2	C	399-3758-1-ND	.83	6.96	14.29	399-3758-2-ND	500	103.90	T491C476M010AT
	47	±10	4.7	6	0.8	D	399-3793-1-ND	1.04	8.70	17.85	399-3793-2-ND	500	129.80	T491D476K010AT
	47	±20	4.7	6	0.8	D	399-3796-1-ND	1.04	8.70	17.85	399-3796-2-ND	500	129.80	T491D476M010AT
	100	±10	10	8	0.7	D	399-3769-1-ND	.98	8.28	17.18	399-3769-2-ND	500	148.39	T491D107K010AT
	100	±20	10	8	0.7	D	399-3772-1-ND	.98	8.28	17.18	399-3772-2-ND	500	148.39	T491D107M010AT
	150	±10	15	10	1.2	C	399-3738-1-ND	2.00	16.40	37.00	399-3738-2-ND	500	340.00	T491C157K010AT
	150	±20	15	8	0.7	D	399-3778-1-ND	1.13	9.41	20.27	399-3778-2-ND	500	180.00	T491D157M010AT
	220	±10	22	8	0.5	X	399-3818-1-ND	2.22	18.18	41.01	399-3818-2-ND	500	377.00	T491X227K010AT
	220	±20	22	10	0.9	C	399-5168-1-ND	1.30	10.66	24.05	399-5168-2-ND	750	312.00	T491C227M010ZT
	330	±10	33	10	0.5	E	399-4627-1-ND	6.60	62.00	145.00	399-4627-2-ND	500	1400.00	T491E337K010AT
	330	±20	33	10	0.5	D	399-3790-1-ND	3.79	31.45	75.16	399-3790-2-ND	500	740.00	T491D337M010AT
	470	±20	47	12	0.5	E	399-3804-1-ND	6.27	58.90	137.75	399-3804-2-ND	500	1330.00	T491E477M010AT
16	1.0	±10	0.5	4	10.0	A	399-3678-1-ND	.53	4.20	8.60	399-3678-2-ND	2,000	76.40/M	T491A105K016AT
	1.0	±20	0.5	4	10.0	A	399-3681-1-ND	.53	4.20	8.60	399-3681-2-ND	2,000	76.40/M	T491A105M016AT
	1.5	±10	0.5	6	8.0	A	399-3689-1-ND	.53	4.20	8.60	399-3689-2-ND	2,000	76.40/M	T491A155K016AT
	2.2	±10	0.5	6	6.0	A	399-3691-1-ND	.53	4.20	8.60	399-3691-2-ND	2,000	76.40/M	T491A225K016AT
	3.3	±10	0.5	6	3.5	B	399-3719-1-ND	.59	4.67	9.85	399-3719-2-ND	2,000	101.00/M	T491B335K016AT
	4.7	±10	0.8	6	4.0	A	399-3697-1-ND	.42	3.32	7.00	399-3697-2-ND	2,000	72.00/M	T491A475K016AT
	4.7	±20	0.8	6	4.0	A	399-3699-1-ND	.42	3.32	7.00	399-3699-2-ND	2,000	72.00/M	T491A475M016AT
	4.7	±10	0.8	6	3.5	B	399-3722-1-ND	.59	4.67	9.85	399-3722-2-ND	2,000	101.00/M	T491B475K016AT
	4.7	±20	0.8	6	3.5	B	399-3725-1-ND	.59	4.67	9.85	399-3725-2-ND	2,000	101.00/M	T491B475M016AT
	6.8	±20	1.1	6	1.9	C	399-3761-1-ND	.63	5.27	10.81	399-3761-2-ND	500	78.60	T491C685M016AT
	10	±20	1.6	10	7.0	A	399-3687-1-ND	.49	3.90	8.23	399-3687-2-ND	2,000	84.60/M	T491A106M016AT
	10	±10	1.6	6	2.8	B	399-3706-1-ND	.62	4.90	10.33	399-3706-2-ND	2,000	106.00/M	T491B106K016AT
	10	±20	1.6	6	2.8	B	399-3708-1-ND	.62	4.90	10.33	399-3708-2-ND	2,000	106.00/M	T491B106M016AT
	10	±10	1.6	6	1.8	C	399-3732-1-ND	.63	5.27	10.81	399-3732-2-ND	500	78.60	T491C106K016AT
	10	±20	1.6	6	1.8	C	399-3735-1-ND	.63	5.27	10.81	399-3735-2-ND	500	78.60	T491C106M016AT
	22	±20	3.5	6	2.2	B	399-3717-1-ND	.86	7.16	14.70	399-3717-2-ND	2,000	171.00/M	T491B226M016AT
	22	±10	3.6	6	1.6	C	399-3744-1-ND	.68	5.71	11.72	399-3744-2-ND	500	85.20	T491C226K016AT
	22	±20	3.6	6	1.6	C	399-3747-1-ND	.68	5.71	11.72	399-3747-2-ND	500	85.20	T491C226M016AT
	22	±10	3.6	6	0.8	D	399-3780-1-ND	.84	7.16	14.85	399-3780-2-ND	500	128.25	T491D226K016AT
	33	±10	5.3	6	1.2	C	399-3750-1-ND	.83	6.96	14.29	399-3750-2-ND	500	103.90	T491C336K016AT
	33	±10	5.3	6	0.8	D	399-3787-1-ND	1.00	8.48	17.60	399-3787-2-ND	500	152.00	T491D336K016AT
	33	±20	5.3	6	0.8	D	399-3789-1-ND	1.00	8.48	17.60	399-3789-2-ND	500	152.00	T491D336M016AT
	47	±10	7.5	6	0.8	D	399-3794-1-ND	.84	7.16	14.85	399-3794-2-ND	500	128.25	T491D476K016AT
	68	±10	10.9	12	1.2	C	399-5283-1-ND	2.00	16.40	37.00	399-5283-2-ND	500	340.00	T491C686K016AT
	100	±10	16	10	1.0	C	399-5214-1-ND	1.00	8.48	17.60	399-5214-2-ND	750	204.00	T491C107K016ZT
	100	±10	16	8	0.7	D	399-3770-1-ND	1.13	9.41	20.27	399-3770-2-ND	500	180.00	T491D107K016AT
	100	±20	16	8	0.7	D	399-3773-1-ND	1.13	9.41	20.27	399-3773-2-ND	500	180.00	T491D107M016AT
	100	±10	16	12	0.7	V	399-3809-1-ND	2.79	23.12	55.25	399-3809-2-ND	1,000	952.00	T491V107K016AT
	100	±10	16	8	0.7	X	399-3811-1-ND	1.82	14.88	33.58	399-3811-2-ND	500	308.50	T491X107K016AT
	100	±20	16	8	0.7	X	399-3812-1-ND	1.82	14.88	33.58	399-3812-2-ND	500	308.50	T491X107M016AT
	150	±10	24	12	0.7	D	399-3777-1-ND	1.39	11.37	25.64	399-3777-2-ND	500	235.50	T491D157K016AT
	150	±10	24	8	0.5	X	399-3815-1-ND	2.22	18.18	41.01	399-3815-2-ND	500	377.00	T491X157K016AT
	220	±10	35.2	7.2	0.9	E	399-4962-1-ND	6.60	62.00	145.00	399-4962-2-ND	500	1400.00	T491E227K016AT
	220	±10	35.2	15	0.9	D	399-5124-1-ND	1.30	10.66	24.05	399-5124-2-ND	750	312.00	T491D227K016ZT
20	1.0	±10	0.5	4	10.0	A	399-3679-1-ND	.53	4.20	8.60	399-3679-2-ND	2,000	76.40/M	T491A105K020AT
	1.0	±20	0.5	4	10.0	A	399-3682-1-ND	.53	4.20	8.60	399-3682-2-ND	2,000	76.40/M	T491A105M020AT
	2.2	±10	0.5	6	3.5	B	399-3714-1-ND	.59	4.67	9.85	399-3714-2-ND	2,000	101.00/M	T491B225K020AT
	4.7	±10	1	6	3.5	B	399-3723-1-ND	.59	4.67	9.85	399-3723-2-ND	2,000	101.00/M	T491B475K020AT
	6.8	±10	1.4	6	1.9	C	399-3759-1-ND	.63	5.27	10.81	399-3759-2-ND	500	78.60	T491C685K020AT
	6.8	±20	1.4	8	6.0	A	399-4628-1-ND	.49	3.90	8.23	399-4628-2-ND	2,000	85.00/M	T491A685M020AT
	10	±20	2	10	5.0	A	399-5152-1-ND	.76	6.37	13.06	399-5152-2-ND	2,000	152.00/M	T491A106M020AT
	10	±10	2	6	1.8	C	399-3733-1-ND	.63	5.27	10.81	399-3733-2-ND	500	78.60	T491C106K020AT
	15	±10	3	6	2.5	B	399-5213-1-ND	.72	6.03	12.38	399-5213-2-ND	2,000	144.00/M	T491B156K020ZT
	22	±10	4.4	8	4.0	B	399-5296-1-ND	1.10	9.17	19.74	399-5296-2-ND	2,000	283.00/M	T491B226K020AT
	22	±10	4.4	6	1.2	C	399-3745-1-ND	.83	6.96	14.29	399-3745-2-ND	500	103.90	T491C226K020AT
	22	±10	4.4	6	0.8	D	399-3781-1-ND	1.04	8.70	17.85	399-3781-2-ND	500	129.80	T491D226K020AT
	22	±20	4.4	6	0.8	D	399-3783-1-ND	1.04	8.70	17.85	399-3783-2-ND	500	129.80	T491D226M020AT
	33	±10	6.6	6	0.8	D	399-3788-1-ND	.88	7.42	15.40	399-3788-2-ND	500	133.00	T491D336K020AT
	47	±10	9.4	6	0.9	C	399-5215-1-ND	2.00	16.40	37.00	399-5215-2-ND	750	480.00	T491C476K020ZT
	47	±10	9.4	6	0.7	D	399-3795-1-ND	.98	8.28	17.18	399-3795-2-ND	500	148.39	T491D476K020AT
	68	±10	13.6	8	0.7	D	399-3803-1-ND	1.39	11.37	25.64	399-3803-2-ND	500	235.50	T491D686K020AT
	68	±10	13.6	6	0.7	X	399-3822-1-ND	1.82	14.88	33.58	399-3822-2-ND	500	308.50	T491X686K020AT
	100	±10	20	8	0.5	E	399-4629-1-ND	6.60	62.00	145.00	399-4629-2-ND	500	1400.00	T491E107K020AT
	100	±20	20	8	0.5	X	399-3813-1-ND	2.22	18.18	41.01	399-3813-2-ND	500	377.00	T491X107M020AT
	150	±10	30	10	0.5	X	399-4794-1-ND	2.15	17.84	42.63	399-4794-2-ND	500	420.00	T491X157K020AT
25	0.47	±10	0.5	4	14.0	A	399-3695-1-ND	.53	4.20	8.60	399-3695-2-ND	2,000	76.40/M	T491A474K025AT
	1.0	±10	0.5	4	8.0	A	399-3680-1-ND	.42	3.32	7.00	399-3680-2-ND	2,000	72.00/M	T491A105K025AT
	1.5	±10	0.5	6	5.0	B	399-3711-1-ND	.59	4.67	9.85	399-3711-2-ND	2,000	101.00/M	T491B155K025AT
	2.2	±10	0.6	6	4.5	B	399-3715-1-ND	.62	4.90	10.33	399-3715-2-ND	2,000	106.00/M	T491B225K025AT
	2.2	±10	0.6	6	3.5	C	399-3739-1-ND	.63	5.27	10.81	399-3739-2-ND	500	78.60	T491C225K025AT
	2.2	±20	0.6	6	3.5	C	399-3741-1-ND	.63	5.27	10.81	399-3741-2-ND	500	78.60	T491C225M025AT
	4.7	±10	1.2	6	2.4	C	399-3753-1-ND	.63	5.27	10.81	399-3753-2-ND	500	78.60	T491C475K025AT
	4.7	±20	1.2	6	2.4	C	399-3755-1-ND	.63	5.27	10.81	399-3755-2-ND	500	78.60	T491C475M025AT
	4.7	±20	1.2	8	6.0	A	399-4630-1-ND	.49	3.90	8.23	399-4630-2-ND	2,000	85.00/M	T491A475M025AT
	6.8	±10	1.7	8	3.0	B	399-3728-1-ND	.86	7.16	14.70	399-3728-2-ND	2,000	171.00/M	T491B685K025AT
	6.8	±10	1.7	6	1.9	C	399-3760-1-ND	.63	5.27	10.81	399-3760-2-ND	500	78.60	T491C685K025AT
	6.8	±20	1.7	6	1.9	C	399-3762-1-ND	.63	5.27	10.81	399-3762-2-ND	500	78.60	T491C685M025AT
	10	±10	2.5	6	1.5	C	399-3734-1-ND	.68	5.71	11.72	399-3734-2-ND	500	85.20	T491C106K025AT
	10	±10	2.5	8	3.0	B	399-5125-1-ND	1.10	9.17	19.74	399-5125-2-ND	2,000	283.00/M	T491B106K025AT
	10	±20	2.5	6	1.5	C	399-3736-1-ND	.68	5.71	11.72	399-3736-2-ND	500	85.20	T491C106M025AT
	10	±10	2.5	6	1.0	D	399-3765-1-ND	1.04	8.70	17.85	399-3765-2-ND	500	129.80	T491D106K025AT
	10	±20	2.5	6	1.0	D	399-3767-1-ND	1.04	8.70	17.85	399-3767-2-ND	500	129.80	T491D106M025AT
	15	±10	3.8	8	4.0	B	399-5298-1-ND	1.10	9.17	19.74	399-5298-2-ND	2,000	283.00/M	T491B156K025AT
	15	±10	3.8	6	1.0	D	399-3774-1-ND	1.04	8.70	17.85	399-3774-2-ND	500	129.80	T491D156K025AT
	15	±20	3.8	6	1.0	D	399-3776-1-ND	1.04	8.70	17.85	399-3776-2-ND	500	129.80	T491D156M025AT
	22	±10	5.5	6	1.4	C	399-5153-1-ND	1.21	10.08	21.71	399-5153-2-ND	750	265.50	T491C226K025ZTZ154
	22	±20	5.5	6	1.4	C	399-5154-1-ND	1.21	10.08	21.71	399-5154-2-ND	750	265.50	T491C226M025ZTZ154
	22	±10	5.5	8	1.5	C	399-3746-1-ND	.91	7.69	15.95	399-3746-2-ND	500	137.75	T491C226K025AT
	22	±10	5.5	6	0.8	D	399-3782-1-ND	1.04	8.70	17.85	399-3782-2-ND	500	129.80	T491D226K025AT
	22	±20	5.5	6	0.8	D	399-3784-1-ND	1.04	8.70	17.85	399-3784-2-ND	500	129.80	T491D226M025AT
	33	±10	8.3	6	0.7	X	399-3819-1-ND	1.82	14.88	33.58	399-3819-2-ND	500	308.50	T491X336K025AT
	33	±20	8.3	6	0.7	X	399-3820-1-ND	1.82	14.88	33.58	399-3820-2-ND	500	308.50	T491X336M025AT
	47	±20	11.8	10	0.7	D	399-3797-1-ND	1.39	11.37	25.64	399-3797-2-ND	500	235.50	T491D476M025AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

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WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
25	68	±20	17	8	0.7	X	399-3823-1-ND	2.22	18.18	41.01	399-3823-2-ND	500	377.00	T491X686M025AT
	100	±10	25	8	0.3	X	399-5175-1-ND	2.15	17.84	42.63	399-5175-2-ND	400	377.60	T491X107K025ZT
35	0.10	±10	0.5	4	10.0	A	399-3676-1-ND	.53	4.20	8.60	399-3676-2-ND	2,000	76.40/M	T491A104K035AT
	0.10	±20	0.5	4	10.0	A	399-3677-1-ND	.53	4.20	8.60	399-3677-2-ND	2,000	76.40/M	T491A104M035AT
	0.33	±10	0.5	4	15.0	A	399-3693-1-ND	.53	4.20	8.60	399-3693-2-ND	2,000	76.40/M	T491A334K035AT
	1.0	±10	0.5	4	5.0	B	399-3702-1-ND	.59	4.67	9.85	399-3702-2-ND	2,000	101.00/M	T491B105K035AT
	1.0	±20	0.5	4	5.0	B	399-3703-1-ND	.59	4.67	9.85	399-3703-2-ND	2,000	101.00/M	T491B105M035AT
	2.2	±10	0.8	6	3.5	C	399-3740-1-ND	.63	5.27	10.81	399-3740-2-ND	500	78.60	T491C225K035AT
	3.3	±20	1.2	6	3.5	B	399-3720-1-ND	.86	7.16	14.70	399-3720-2-ND	2,000	171.00/M	T491B335M035AT
	3.3	±20	1.2	6	2.5	C	399-3749-1-ND	.78	6.53	13.41	399-3749-2-ND	500	97.50	T491C335M035AT
	3.3	±10	1.2	6	3.5	D	399-5401-1-ND	1.00	8.48	17.60	399-5401-2-ND	500	152.00	T491D335K035AT
	4.7	±10	1.7	6	2.5	C	399-3754-1-ND	.96	8.04	16.50	399-3754-2-ND	500	120.00	T491C475K035AT
	4.7	±10	1.7	6	1.5	D	399-3791-1-ND	1.00	8.48	17.60	399-3791-2-ND	500	152.00	T491D475K035AT
	6.8	±20	2.4	6	2.0	C	399-3763-1-ND	.83	6.96	14.29	399-3763-2-ND	500	103.90	T491C685M035AT
	6.8	±10	2.4	6	1.3	D	399-3799-1-ND	.88	7.42	15.40	399-3799-2-ND	500	133.00	T491D685K035AT
	10	±10	3.5	6	1.0	D	399-3766-1-ND	1.10	9.17	19.74	399-3766-2-ND	500	175.50	T491D106K035AT
	10	±20	3.5	6	1.0	D	399-3768-1-ND	1.10	9.17	19.74	399-3768-2-ND	500	175.50	T491D106M035AT
	15	±10	5.3	6	0.8	D	399-3775-1-ND	.98	8.28	17.18	399-3775-2-ND	500	148.39	T491D156K035AT
	15	±10	5.3	6	0.9	X	399-3814-1-ND	1.82	14.88	33.58	399-3814-2-ND	500	308.50	T491X156K035AT
	22	±10	7.7	6	0.7	X	399-3816-1-ND	1.82	14.88	33.58	399-3816-2-ND	500	308.50	T491X226K035AT
	22	±20	7.7	6	0.7	X	399-3817-1-ND	1.82	14.88	33.58	399-3817-2-ND	500	308.50	T491X226M035AT
	33	±10	11.6	6	0.9	D	399-5169-1-ND	3.96	32.81	78.41	399-5169-2-ND	500	772.00	T491D336K035AT
	47	±10	16.5	8	0.6	X	399-3821-1-ND	2.15	17.84	42.63	399-3821-2-ND	500	420.00	T491X476K035AT
50	0.33	±20	0.5	4	10.0	B	399-3718-1-ND	.72	5.68	11.97	399-3718-2-ND	2,000	123.00/M	T491B334M050AT
	0.47	±10	0.5	4	8.0	C	399-3752-1-ND	.78	6.52	13.38	399-3752-2-ND	500	97.30	T491C474K050AT
	1.0	±10	0.5	4	5.5	C	399-3730-1-ND	.78	6.52	13.38	399-3730-2-ND	500	97.30	T491C105K050AT
	2.2	±10	1.1	6	2.5	D	399-3779-1-ND	1.29	10.81	23.29	399-3779-2-ND	500	207.00	T491D225K050AT
	3.3	±20	1.7	6	2.0	D	399-3785-1-ND	1.29	10.81	23.29	399-3785-2-ND	500	207.00	T491D335M050AT
	4.7	±10	2.4	6	1.5	D	399-3792-1-ND	1.09	9.28	19.25	399-3792-2-ND	500	166.25	T491D475K050AT
	6.8	±20	3.4	6	1.0	D	399-3800-1-ND	1.25	10.25	23.13	399-3800-2-ND	500	212.50	T491D685M050AT
T494 Series, Low ESR, Industrial Grade														
4	68	±10	2.8	30	3.0	A	399-3343-1-ND	.96	8.16	16.94	—	—	—	T494A686K004AS
	150	±20	6	12	1.0	B	399-3345-1-ND	1.26	10.35	23.35	—	—	—	T494B157M004AS
	330	±10	13.2	10	0.9	C	399-3310-1-ND	1.94	16.07	38.41	399-3310-2-ND	500	473.20	T494C337K004AS
6.3	6.8	±10	0.5	8	10.0	R	399-3233-1-ND	1.32	10.80	24.36	—	—	—	T494R685K006AS
T494 Series, Low ESR, Industrial Grade — RoHS Compliant														
2.5	220	±10	5.5	8	0.2	D	399-4772-1-ND	5.73	53.85	125.93	399-4772-2-ND	500	1216.00	T494D227K2R5AT
4	68	±10	2.8	30	3.0	A	399-3829-1-ND	1.06	9.01	18.70	399-3829-2-ND	2,000	255.00/M	T494A686K004AT
	100	±20	4	30	3.0	A	399-3825-1-ND	1.03	8.75	18.15	399-3825-2-ND	2,000	248.00/M	T494A107M004AT
	100	±20	4	8	1.0	B	399-3832-1-ND	1.39	11.40	25.72	399-3832-2-ND	2,000	389.00/M	T494B107M004AT
	100	±20	4	30	4.5	T	399-3342-1-ND	1.80	14.80	33.39	—	—	—	T494T107M004AT
	150	±20	6	12	1.0	B	399-3834-1-ND	1.39	11.40	25.72	399-3834-2-ND	2,000	389.00/M	T494B157M004AT
	220	±20	8.8	8	0.4	B	399-4631-1-ND	1.39	11.40	25.72	399-4631-2-ND	2,000	389.00/M	T494B227M004AT
	330	±10	13.2	10	0.9	C	399-3849-1-ND	2.13	17.68	42.25	399-3849-2-ND	500	416.00	T494C337K004AT
6.3	47	±20	3	12	2.5	A	399-3828-1-ND	1.03	8.75	18.15	399-3828-2-ND	2,000	248.00/M	T494A476M006AT
	68	±20	4.1	8	1.0	B	399-3841-1-ND	1.39	11.40	25.72	399-3841-2-ND	2,000	389.00/M	T494B686M006AT
	68	±10	5	30	3.0	A	399-4699-1-ND	1.03	8.75	18.15	399-4699-2-ND	2,000	248.00/M	T494A686K006AT
	100	±20	6.3	15	1.5	B	399-3833-1-ND	1.39	11.40	25.72	399-3833-2-ND	2,000	389.00/M	T494B107M006AT
	220	±20	13.2	10	0.3	C	399-3848-1-ND	2.08	17.24	41.19	399-3848-2-ND	500	405.50	T494C227M006AT
	470	±10	29.6	10	0.2	E	399-4632-1-ND	8.84	82.65	203.06	399-4632-2-ND	500	1959.50	T494E477K006AT
	470	±20	28.2	12	0.5	D	399-3861-1-ND	5.41	50.84	118.90	399-3861-2-ND	500	1148.00	T494D477M006AT
10	2.2	±10	0.5	6	6.0	A	399-3826-1-ND	.96	8.04	16.50	399-3826-2-ND	2,000	192.00/M	T494A225K010AT
	4.7	±10	0.5	6	1.5	B	399-3838-1-ND	1.03	8.75	18.15	399-3838-2-ND	2,000	248.00/M	T494B475K010AT
	10	±20	1	6	0.8	B	399-3831-1-ND	1.00	8.48	17.60	399-3831-2-ND	2,000	240.00/M	T494B106M010AT
	10	±10	1	24	25	R	399-5400-1-ND	1.55	12.71	28.68	399-5400-2-ND	2,500	434.00/M	T494R106K010AT
	22	±20	2.2	10	4.5	A	399-3827-1-ND	1.03	8.75	18.15	399-3827-2-ND	2,000	248.00/M	T494A226M010AT
	22	±10	2.2	6	0.4	D	399-5601-1-ND	2.18	17.86	40.28	399-5601-2-ND	500	370.18	T494D226K010AT
	33	±10	3.3	15	4.0	A	399-5280-1-ND	1.06	9.01	18.70	399-5280-2-ND	2,000	255.00/M	T494A336K010AT
	33	±10	3.3	6	2.0	B	399-3837-1-ND	1.35	11.07	24.98	399-3837-2-ND	2,000	378.00/M	T494B336K010AT
	33	±10	3.3	24	3.75	T	399-5282-1-ND	2.10	17.22	38.85	399-5282-2-ND	2,500	588.00/M	T494T336K010AT
	47	±20	4.7	8	1.0	B	399-3839-1-ND	1.39	11.40	25.72	399-3839-2-ND	2,000	389.00/M	T494B476M010AT
	47	±10	4.7	6	0.3	C	399-3850-1-ND	1.63	13.33	30.06	399-3850-2-ND	500	276.50	T494C476K010AT
	100	±10	10	8	0.15	D	399-3853-1-ND	2.13	17.68	42.25	399-3853-2-ND	500	416.00	T494D107K010AT
	150	±10	15	10	0.9	C	399-3844-1-ND	2.13	17.68	42.25	399-3844-2-ND	500	416.00	T494C157K010AT
	330	±20	33	10	0.15	D	399-3857-1-ND	5.41	50.84	118.90	399-3857-2-ND	500	1148.00	T494D337M010AT
	330	±10	33	10	0.1	X	399-3872-1-ND	6.65	62.47	146.09	399-3872-2-ND	500	1410.50	T494X337K010AT
	330	±10	33	10	0.25	E	399-4633-1-ND	8.84	82.65	203.06	399-4633-2-ND	500	1959.50	T494E337K010AT
16	10	±20	1.6	10	3.0	A	399-3824-1-ND	.97	8.22	17.05	399-3824-2-ND	2,000	233.00/M	T494A106M016AT
	10	±10	1.6	6	0.8	B	399-3830-1-ND	1.01	8.46	18.23	399-3830-2-ND	2,000	261.00/M	T494B106K016AT
	22	±20	3.5	6	0.8	B	399-3835-1-ND	1.30	10.66	24.05	399-3835-2-ND	2,000	364.00/M	T494B226M016AT
	22	±10	3.6	6	0.35	C	399-3845-1-ND	1.43	11.73	26.46	399-3845-2-ND	500	243.00	T494C226K016AT
	22	±20	3.6	6	0.35	C	399-3847-1-ND	1.28	10.50	23.69	399-3847-2-ND	500	217.50	T494C226M016AT
	22	±10	3.6	6	0.25	D	399-3856-1-ND	2.18	17.86	40.28	399-3856-2-ND	500	370.00	T494D226K016AT
	68	±10	10.9	12	1.0	C	399-5284-1-ND	2.13	17.68	42.25	399-5284-2-ND	500	416.00	T494C686K016AT
	100	±10	16	12	0.5	V	399-3866-1-ND	3.62	30.06	71.83	399-3866-2-ND	1,000	1238.00	T494V107K016AT
	150	±10	24	12	0.4	D	399-3854-1-ND	5.15	45.76	110.83	399-3854-2-ND	500	1037.00	T494D157K016AT
	150	±10	24	8	0.15	X	399-3870-1-ND	5.79	54.41	127.24	399-3870-2-ND	500	1228.50	T494X157K016AT
	220	±10	35.2	7.2	0.5	E	399-4963-1-ND	8.84	82.65	203.06	399-4963-2-ND	500	1959.50	T494E227K016AT
20	6.8	±20	1.4	8	3.0	A	399-4634-1-ND	.97	8.22	17.05	399-4634-2-ND	2,000	233.00/M	T494A685M020AT
	10	±20	2	10	3.0	A	399-5157-1-ND	1.03	8.75	18.15	399-5157-2-ND	2,000	248.00/M	T494A106M020AT
	22	±10	4.4	8	3.0	B	399-5297-1-ND	1.46	11.99	27.06	399-5297-2-ND	2,000	410.00/M	T494B226K020AT
	100	±10	20	8	0.3	E	399-4635-1-ND	8.84	82.65	203.06	399-4635-2-ND	500	1959.50	T494E107K020AT
	100	±20	20	8	0.15	X	399-3868-1-ND	5.49	51.58	120.64	399-3868-2-ND	500	1165.00	T494X107M020AT
	150	±10	30	10	0.3	X	399-4795-1-ND	6.65	62.47	146.09	399-4795-2-ND	500	1410.50	T494X157K020AT
25	4.7	±20	1.2	8	3.0	A	399-4636-1-ND	.97	8.22	17.05	399-4636-2-ND	2,000	233.00/M	T494A475M025AT
	6.8	±10	1.7	8	2.0	B	399-3840-1-ND	1.35	11.07	24.98	399-3840-2-ND	2,000	378.00/M	T494B685K025AT
	10	±10	2.5	8	3.0	B	399-5126-1-ND	1.46	11.99	27.06	399-5126-2-ND	2,000	410.00/M	T494B106K025AT
	10	±10	2.5	6	0.6	C	399-3842-1-ND	1.43	11.73	26.46	399-3842-2-ND	500	243.00	T494C106K025AT
	10	±20	2.5	6	0.6	C	399-3843-1-ND	1.28	10.50	23.69	399-3843-2-ND	500	217.50	T494C106M025AT
	10	±10	2.5	6	0.4	D	399-3851-1-ND	2.18	17.86	40.28	399-3851-2-ND	500	370.00	T494D106K025AT
	15	±10	3.8	8	3.0	B	399-5299-1-ND	1.46	11.99	27.06	399-5299-2-ND	2,000	410.00/M	T494B156K025AT
	22	±10	5.5	8	1.0	C	399-3846-1-ND	1.69	13.86	31.27	399-3846-2-ND	500	287.50	T494C226K025AT
	47	±20	11.8	10	0.2	D	399-3860-1-ND	4.91	43.68	105.79	399-3860-2-ND	500	989.50	T494D476M025AT
	68	±20	17	8	0.3	X	399-3874-1-ND	5.49	51.58	120.64	399-3874-2-ND	500	1165.00	T494X686M025AT
35	3.3	±20	1.2	6	1.3	B	399-3836-1-ND	1.30	10.66	24.05	399-3836-2-ND	2,000	364.00/M	T494B335M035AT
	4.7	±10	1.7	6	0.7	D	399-3858-1-ND	2.18	17.86	40.28	399-3858-2-ND	500	370.00	T494D475K035AT
	10	±20	3.5	6	0.4	D	399-3852-1-ND	2.11	17.32	39.08	399-3852-2-ND	500	359.00	T494D106M035AT
	22	±10	7.7	6	0.3	X	399-3871-1-ND	5.15	45.76	110.83	399-3871-2-ND	500	1037.00	T494X226K035AT
	33	±10	11.6	6	0.6	D	399-5176-1-ND	5.73	53.85	125.93	399-5176-2-ND	500	1216.00	T494D336K035AT
	47	±10	16.5	8	0.5	X	399-3873-1-ND	6.65	62.47	146.09	399-3873-2-ND	500	1410.50	T494X476K035AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
50	2.2	±10	1.1	6	0.8	D	399-3855-1-ND	2.35	19.45	46.48	399-3855-2-ND	500	457.50	T494D225K050AT
	4.7	±10	2.4	6	0.6	D	399-3859-1-ND	2.35	19.45	46.48	399-3859-2-ND	500	457.50	T494D475K050AT
	6.8	±20	3.4	6	0.7	D	399-3862-1-ND	2.67	22.10	52.81	399-3862-2-ND	500	520.00	T494D685M050AT
	15	±10	7.5	8	0.4	X	399-3869-1-ND	6.44	60.45	141.38	399-3869-2-ND	500	1365.00	T494X156K050AT
T495 Series, Low ESR, Surge Robust														
4	150	±20	6	12	0.9	B	399-3347-1-ND	1.73	14.15	31.92	399-3347-2-ND	2,000	646.00/M	T495B157M004ASE900
T495 Series, Low ESR, Surge Robust — RoHS Compliant														
2.5	220	±10	5.5	8	0.045	D	399-4773-1-ND	3.28	27.20	65.00	399-4773-2-ND	500	640.00	T495D227K2R5ATE045
	1000	±10	25	15	0.03	X	399-5227-1-ND	8.22	76.85	188.81	399-5227-2-ND	500	1822.00	T495X108K2R5ATE030
	1000	±10	25	15	0.04	X	399-4796-1-ND	7.91	73.95	181.69	399-4796-2-ND	500	1753.00	T495X108K2R5ATE040
4	33	±10	1	8	1.2	T	399-5196-1-ND	1.65	13.49	30.43	399-5196-2-ND	2,500	461.00/M	T495T336K004ZTE1K2
	47	±10	2	10	1.0	T	399-5197-1-ND	1.66	13.57	30.62	399-5197-2-ND	2,500	463.00/M	T495T476K004ZTE1K0
	150	±10	6	8	0.25	C	399-4637-1-ND	2.30	18.86	42.55	399-4637-2-ND	500	391.00	T495C157K004ATE250
	150	±20	6	12	0.9	B	399-3876-1-ND	1.90	15.58	35.15	399-3876-2-ND	2,000	532.00/M	T495B157M004ATE900
	150	±10	6	8	0.02	U	399-5199-1-ND	2.16	17.71	39.96	399-5199-2-ND	1,250	648.00/M	T495U157K004ZTE200
	330	±10	13.2	12	0.7	C	399-3878-1-ND	2.30	18.86	42.55	399-3878-2-ND	500	391.00	T495C337K004ATE700
	330	±10	13.2	8	0.03	D	399-4798-1-ND	4.02	33.32	79.63	399-4798-2-ND	500	784.00	T495D337K004ATE030
	330	±10	13.2	8	0.045	D	399-4797-1-ND	3.73	30.94	73.94	399-4797-2-ND	500	728.00	T495D337K004ATE045
	470	±10	18.8	8	0.03	X	399-4776-1-ND	8.22	76.85	188.81	399-4776-2-ND	500	1822.00	T495X477K004ATE030
	470	±10	18.8	8	0.045	X	399-4775-1-ND	7.91	73.95	181.69	399-4775-2-ND	500	1753.00	T495X477K004ATE045
	470	±10	18.8	8	0.1	X	399-4774-1-ND	8.09	75.95	177.63	399-4774-2-ND	500	1715.00	T495X477K004ATE100
	1000	±10	40	12	0.03	X	399-5224-1-ND	6.77	63.55	148.63	399-5224-2-ND	500	1435.00	T495X108K004ATE030
	1000	±10	40	12	0.04	X	399-5225-1-ND	6.44	60.45	141.38	399-5225-2-ND	500	1365.00	T495X108K004ATE040
	1000	±10	40	15	0.05	E	399-4799-1-ND	8.20	76.70	188.44	—	—	—	T495E108K004ATE050
	1000	±10	40	12	0.06	X	399-5226-1-ND	6.11	57.35	134.13	399-5226-2-ND	500	1295.00	T495X108K004ATE060
6.3	6.8	±10	0.5	6	1.8	A	399-5185-1-ND	1.04	8.65	18.63	399-5185-2-ND	2,000	267.00/M	T495A685K006ZTE1K8
	15	±10	1	6	1.0	T	399-5194-1-ND	1.65	13.53	30.53	399-5194-2-ND	2,500	462.00/M	T495T156K006ZTE1K0
	47	±10	2.9	6	0.25	C	399-4638-1-ND	2.03	16.61	37.46	399-4638-2-ND	500	344.50	T495C476K006ATE250
	100	±10	6	6	0.08	D	399-5602-1-ND	1.70	13.94	31.45	399-5602-2-ND	500	289.00	T495D107K006ATE080
	100	±10	6.3	8	0.075	C	399-5218-1-ND	2.28	18.66	42.09	399-5218-2-ND	500	387.00	T495C107K006ATE075
	100	±20	6	8	0.15	C	399-5261-1-ND◊	2.00	16.40	37.00	399-5261-2-ND	500	340.00	T495C107M006ATE150
	100	±10	6.3	20	1.0	M	399-5160-1-ND	1.93	15.85	35.75	399-5160-2-ND	2,000	541.00/M	T495M107K006ZTE1K0
	100	±20	6.3	20	1.0	M	399-5162-1-ND	1.75	14.39	32.46	—	—	—	T495M107M006ZTE1K0
	100	±20	6.3	15	0.7	B	399-3875-1-ND	1.90	15.58	35.15	399-3875-2-ND	2,000	532.00/M	T495B107M006ATE700
	100	±10	6.3	20	0.5	M	399-5161-1-ND	1.93	15.85	35.75	399-5161-2-ND	2,000	541.00/M	T495M107K006ZTE500
	100	±20	6.3	20	0.5	M	399-5163-1-ND	1.93	15.85	35.75	399-5163-2-ND	2,000	541.00/M	T495M107M006ZTE500
	100	±10	6	8	0.09	V	399-4700-1-ND	3.45	28.58	68.29	399-4700-2-ND	1,000	1177.00	T495V107K006ATE090
	150	±10	9	8	0.07	V	399-4964-1-ND	3.36	27.88	66.63	399-4964-2-ND	1,000	1148.00	T495V157K006ATE070
	150	±10	10	8	0.2	U	399-5200-1-ND	2.28	18.66	42.09	399-5200-2-ND	1,250	683.00/M	T495U157K006ZTE200
	220	±10	13.2	8	0.07	X	399-4965-1-ND	2.38	19.72	47.13	399-4965-2-ND	500	464.00	T495X227K006ATE070
	220	±10	13.9	10	0.225	C	399-3877-1-ND	2.30	18.86	42.55	399-3877-2-ND	500	391.00	T495C227K006ATE225
	220	±10	13.9	10	0.1	C	399-5285-1-ND	2.18	18.04	43.11	399-5285-2-ND	750	597.00	T495C227K006ZTE100
	330	±10	20.8	8	0.1	D	399-3883-1-ND	1.90	15.58	35.15	399-3883-2-ND	500	323.00	T495D337K006ATE100
	330	±10	19.8	8	0.1	X	399-3902-1-ND	2.05	17.00	40.63	399-3902-2-ND	500	400.00	T495X337K006ATE100
	330	±10	19.8	8	0.045	X	399-4777-1-ND	2.87	23.80	56.88	399-4777-2-ND	500	560.00	T495X337K006ATE045
	330	±10	20.8	8	0.04	D	399-4802-1-ND	2.38	19.72	47.13	399-4802-2-ND	500	464.00	T495D337K006ATE040
	330	±10	20.8	8	0.05	D	399-4801-1-ND	2.40	19.68	44.40	399-4801-2-ND	500	408.00	T495D337K006ATE050
	330	±10	20.8	8	0.07	D	399-4800-1-ND	2.05	16.81	37.93	399-4800-2-ND	500	348.50	T495D337K006ATE070
	470	±20	29.6	12	0.045	D	399-5220-1-ND	2.05	17.00	40.63	399-5220-2-ND	500	400.00	T495D477M006ATE045
	470	±10	28.2	10	0.03	X	399-4779-1-ND	3.69	30.60	73.13	399-4779-2-ND	500	720.00	T495X477K006ATE030
	470	±10	28.2	10	0.045	X	399-4778-1-ND	3.28	27.20	65.00	399-4778-2-ND	500	640.00	T495X477K006ATE045
	470	±10	29.6	12	0.125	D	399-3886-1-ND	2.10	17.22	38.85	399-3886-2-ND	500	357.00	T495D477K006ATE125
	470	±10	29.6	12	0.1	D	399-4701-1-ND	2.25	18.45	41.63	399-4701-2-ND	500	382.50	T495D477K006ATE100
	1000	±10	63	20	0.1	X	399-5402-1-ND	4.95	44.00	106.56	399-5402-2-ND	400	880.00	T495X108K006ZTE100
10	4.7	±10	0.5	6	1.4	A	399-5184-1-ND	1.58	12.92	29.14	399-5184-2-ND	2,000	441.00/M	T495A475K010ZTE1K4
	6.8	±10	0.7	6	1.8	A	399-5186-1-ND	1.57	12.87	29.05	399-5186-2-ND	2,000	440.00/M	T495A685K010ZTE1K8
	10	±10	1	6	1.8	A	399-5179-1-ND	1.45	11.89	26.83	399-5179-2-ND	2,000	406.00/M	T495A106K010ATE1K8
	10	±10	1	6	0.6	B	399-5187-1-ND	1.63	13.37	30.16	399-5187-2-ND	2,000	456.00/M	T495B106K010ZTE600
	15	±10	2	6	1.0	A	399-5181-1-ND	1.10	9.21	19.85	399-5181-2-ND	2,000	284.00/M	T495A156K010ZTE1K0
	15	±10	1.5	6	0.475	C	399-4639-1-ND	2.13	17.43	39.31	399-4639-2-ND	500	361.50	T495C156K010ATE475
	15	±10	2	6	1.2	T	399-5195-1-ND	1.65	13.53	30.53	399-5195-2-ND	2,500	462.00/M	T495T156K010ZTE1K2
	22	±20	2.2	8	1.2	A	399-5301-1-ND	1.16	9.70	20.89	—	—	—	T495A226M010ZTE1K2ZV17
	22	±20	11	6	1.5	B	399-5404-1-ND	1.38	11.28	25.44	399-5404-2-ND	2,000	385.00/M	T495B226M010ZTA1K5
	22	±10	2	6	0.4	B	399-5189-1-ND	1.32	11.05	23.79	399-5189-2-ND	2,000	341.00/M	T495B226K010ZTE400
	22	±10	2.2	6	0.3	C	399-5192-1-ND	2.28	18.66	42.09	399-5192-2-ND	750	546.00	T495C226K010ZTE300
	22	±10	2.2	6	0.245	C	399-5403-1-ND	2.11	17.51	41.84	399-5403-2-ND	750	579.75	T495C226K010ZTE245
	68	±10	6.8	6	0.07	V	399-4966-1-ND	3.55	29.43	70.32	399-4966-2-ND	1,000	1212.00	T495V686K010ATE070
	68	±10	6.8	6	0.1	V	399-4780-1-ND	3.45	28.58	68.29	399-4780-2-ND	1,000	1177.00	T495V686K010ATE100
	100	±10	10	8	0.18	L	399-5193-1-ND	1.32	11.00	23.69	399-5193-2-ND	1,000	363.00	T495L107K010ZTE180
	100	±10	10	8	0.15	U	399-5198-1-ND	2.19	17.92	40.42	399-5198-2-ND	1,250	656.00/M	T495U107K010ZTE150
	100	±10	10	8	0.1	D	399-3879-1-ND	1.35	11.28	24.30	399-3879-2-ND	500	216.00	T495D107K010ATE100
	150	±20	15	8	0.15	V	399-3891-1-ND	3.16	26.18	62.56	399-3891-2-ND	1,000	1078.00	T495V157M010ATE150
	220	±10	22	8	0.045	D	399-4803-1-ND	2.38	19.72	47.13	399-4803-2-ND	500	464.00	T495D227K010ATE045
	220	±20	22	8	0.1	D	399-5264-1-ND◊	2.15	17.63	39.78	399-5264-2-ND	500	365.50	T495D227M010ATE100
	220	±10	22	12	0.15	V	399-5201-1-ND	3.83	31.76	75.89	399-5201-2-ND	1,000	1308.00	T495V227K010ZTE150
	220	±10	22	8	0.045	X	399-4967-1-ND	3.28	27.20	65.00	399-4967-2-ND	500	640.00	T495X227K010ATE045
	220	±10	22	8	0.05	X	399-4782-1-ND	3.28	27.20	65.00	399-4782-2-ND	500	640.00	T495X227K010ATE050
	220	±10	22	8	0.06	X	399-4781-1-ND	2.87	23.80	56.88	399-4781-2-ND	500	560.00	T495X227K010ATE060
	220	±10	22	8	0.125	D	399-3881-1-ND	1.90	15.58	35.15	399-3881-2-ND	500	323.00	T495D227K010ATE125
	220	±10	22	8	0.1	X	399-3900-1-ND	2.05	17.00	40.63	399-3900-2-ND	500	400.00	T495X227K010ATE100
	330	±10	33	10	0.035	X	399-4783-1-ND	3.28	27.20	65.00	399-4783-2-ND	500	640.00	T495X337K010ATE035
	330	±10	33	8	0.04	E	399-4968-1-ND	8.68	81.20	199.50	399-4968-2-ND	500	1925.00	T495E337K010ATE040
	330	±10	33	10	0.06	E	399-4641-1-ND	8.37	78.30	192.38	399-4641-2-ND	500	1856.50	T495E337K010ATE060
	330	±10	33	10	0.1	E	399-4640-1-ND	8.22	76.85	188.81	399-4640-2-ND	500	1822.00	T495E337K010ATE100
	330	±10	33	10	0.125	D	399-3884-1-ND	2.10	17.22	38.85	399-3884-2-ND	500	357.00	T495D337K010ATE125
	330	±10	33	10	0.06	X	399-3903-1-ND	2.46	20.40	48.75	399-3903-2-ND	500	480.00	T495X337K010ATE060
	470	±10	47	10	0.04	E	399-5127-1-ND	8.99	84.10	206.63	399-5127-2-ND	500	1994.00	T495E477K010ATE040
	470	±10	47	10	0.1	E	399-5128-1-ND	8.53	79.75	195.94	399-5128-2-ND	500	1890.50	T495E477K010ATE100
16	4.7	±10	0.8	6	0.8	B	399-5191-1-ND	2.00	16.40	37.00	399-5191-2-ND	2,000	560.00/M	T495B475K016ZTE800
	6.8	±10	1.1	6	0.75	C	399-4642-1-ND	2.13	17.43	39.31	399-4642-2-ND	500	361.50	T495C685K016ATE750
	10	±20	0.3	6	1.6	B	399-5405-1-ND	2.35	19.27	43.48	399-5405-2-ND	2,000	658.00/M	T495B106M016ZTA1K6
	15	±10	2.4	6	0.8	B	399-4969-1-ND	2.00	16.40	37.00	399-4969-2-ND	2,000	560.00/M	T495B156K016ATE800
	15	±10	2.4	6	0.5	B	399-5188-1-ND	2.24	18.37	41.44	399-5188-2-ND	2,000	627.00/M	T495B156K016ZTE500
	22	±10	3.5	6	0.6	B	399-5190-1-ND	2.00	16.40	37.00	399-5190-2-ND	2,000	560.00/M	T495B226K016ATE600
	33	±10	6.6	6	0.15	D	399-4702-1-ND	1.60	13.12	29.60	399-4702-2-ND	500	272.00	T495D336K016ATE150
	47	±10	7.5	6	0.35	C	399-4970-1-ND	2.33	19.07	43.01	399-4970-2-ND	500	395.50	T495C476K016ATE350
	68	±10	10.9	6	0.18	V	399-4703-1-ND	3.36	27.88	66.63	399-4703-2-ND	1,000	1148.00	T495V686K016ATE180
	68	±10	10.9	6	0.15	D	399-3889-1-ND	1.35	11.28	24.30	399-3889-2-ND	500	408.00	T495D686K016ATE150
	68	±20	10.9	6	0.3	V	399-5268-1-ND◊	3.16	26.18	62.56	399-5268-2-ND	1,000	1078.00	T495V686M016ATE300
	100	±10	16	10	0.2	C	399-5219-1-ND	1.54	12.63	28.49	399-5219-2-ND	750	369.75	T495C107K016ZTE200
	100	±20	16	8	0.1	D	399-5262-1-ND◊	1.65	13.53	30.53	399-5262-2-ND	500	280.50	T495D107M016ATE100
	100	±10	16	8	0.1	X	399-3895-1-ND	2.40	19.68	44.40	399-3895-2-ND	500	408.00	T495X107K016ATE100

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
16	100	±20	16	8	0.1	X	399-3896-1-ND	2.40	19.68	44.40	399-3896-2-ND	500	408.00	T495X107M016ATE100
	150	±10	24	8	0.1	X	399-3898-1-ND	2.05	17.00	40.63	399-3898-2-ND	500	400.00	T495X157K016ATE100
	150	±10	24	8	0.085	D	399-5158-1-ND	3.96	35.20	85.25	399-5158-2-ND	500	797.50	T495D157K016ATE085
	150	±20	24	8	0.085	D	399-5159-1-ND	3.78	33.60	81.38	399-5159-2-ND	500	761.50	T495D157M016ATE085
	150	±10	24	8	0.125	D	399-5130-1-ND	3.90	32.30	77.19	399-5130-2-ND	500	760.00	T495D157K016ATE125
	150	±10	24	8	0.15	D	399-5129-1-ND	3.69	30.60	73.13	399-5129-2-ND	500	720.00	T495D157K016ATE150
	220	±10	35.2	12	0.05	E	399-5223-1-ND	8.99	84.10	206.63	399-5223-2-ND	500	1994.00	T495E227K016ATE050
	220	±10	35.2	7.2	0.1	E	399-4972-1-ND	8.37	78.30	192.38	399-4972-2-ND	500	1856.50	T495E227K016ATE100
	220	±10	35.2	7.2	0.15	E	399-4971-1-ND	8.22	76.85	188.81	399-4971-2-ND	500	1822.00	T495E227K016ATE150
20	1	±10	0.2	4	3.0	A	399-5177-1-ND	2.02	16.52	37.28	399-5177-2-ND	2,000	564.00/M	T495A105K020ZTE3K0
	10	±10	2	6	0.475	C	399-4644-1-ND	2.13	17.43	39.31	399-4644-2-ND	500	361.50	T495C106K020ATE475
	10	±10	2	6	1.0	B	399-4973-1-ND	2.00	16.40	37.00	399-4973-2-ND	2,000	560.00/M	T495B106K020ATE1K0
	15	±10	3	6	0.375	C	399-4643-1-ND	2.13	17.43	39.31	399-4643-2-ND	500	361.50	T495C156K020ATE375
	22	±10	3.5	4	0.18	D	399-4704-1-ND	1.45	11.89	26.83	399-4704-2-ND	500	246.50	T495D226K020ATE180
	47	±10	7.5	4	0.15	X	399-3904-1-ND	2.20	18.04	40.70	399-3904-2-ND	500	374.00	T495X476K020ATE150
	47	±10	9.4	6	0.1	D	399-4784-1-ND	1.65	13.53	30.53	399-4784-2-ND	500	280.50	T495D476K020ATE100
	47	±10	9.4	6	0.175	D	399-3885-1-ND	1.40	11.48	25.90	399-3885-2-ND	500	238.00	T495D476K020ATE175
	47	±10	9.4	8	0.065	X	399-4804-1-ND	3.03	25.16	60.13	399-4804-2-ND	500	592.00	T495X476K020ATE065
	47	±20	9.4	6	0.1	X	399-5267-1-ND◊	2.62	21.76	52.00	399-5267-2-ND	500	512.00	T495X476M020ATE100
	68	±10	13.6	8	0.15	D	399-3890-1-ND	1.40	11.48	25.90	399-3890-2-ND	500	238.00	T495D686K020ATE150
	68	±10	13.6	6	0.15	X	399-3907-1-ND	2.40	19.68	44.40	399-3907-2-ND	500	408.00	T495X686K020ATE150
	68	±10	13.6	4	0.07	D	399-5300-1-ND	1.65	13.53	30.53	399-5300-2-ND	750	396.00	T495D686K020ZTE070
	100	±10	20	8	0.085	E	399-4647-1-ND	8.68	81.20	199.50	399-4647-2-ND	500	1925.00	T495E107K020ATE085
	100	±10	20	8	0.06	E	399-5131-1-ND	8.99	84.10	206.63	399-5131-2-ND	500	1994.00	T495E107K020ATE060
	100	±10	20	8	0.1	E	399-4646-1-ND	8.37	78.30	192.38	399-4646-2-ND	500	1856.50	T495E107K020ATE100
	100	±10	20	8	0.2	E	399-4645-1-ND	8.22	76.85	188.81	399-4645-2-ND	500	1822.00	T495E107K020ATE200
	150	±10	30	8	0.08	E	399-5222-1-ND	9.15	85.55	210.19	399-5222-2-ND	500	2028.00	T495E157K020ATE080
25	1	±10	0.5	4	4.0	A	399-5178-1-ND	1.02	8.55	18.43	399-5178-2-ND	2,000	264.00/M	T495A105K025ZTE4K0
	1.5	±10	0.5	6	3.0	A	399-5180-1-ND	1.09	9.07	19.54	399-5180-2-ND	2,000	280.00/M	T495A155K025ZTE3K0
	2.2	±10	0.6	6	1.3	C	399-4649-1-ND	2.13	17.43	39.31	399-4649-2-ND	500	361.50	T495C225K025ATE1K3
	3.3	±10	0.9	6	0.75	C	399-4648-1-ND	2.13	17.43	39.31	399-4648-2-ND	500	361.50	T495C335K025ATE750
	15	±10	3.8	6	0.1	D	399-5132-1-ND	1.45	11.89	26.83	399-5132-2-ND	500	246.50	T495D156K025ATE100
	22	±20	5.5	6	0.2	D	399-5263-1-ND◊	1.35	11.28	24.30	399-5263-2-ND	500	216.00	T495D226M025ATE200
	33	±10	6.6	4	0.175	X	399-3901-1-ND	2.20	18.04	40.70	399-3901-2-ND	500	374.00	T495X336K025ATE175
	33	±10	8.3	6	0.09	D	399-4785-1-ND	2.15	17.63	39.78	399-4785-2-ND	500	365.50	T495D336K025ATE090
	33	±10	8.3	4	0.1	X	399-5228-1-ND	2.21	18.36	43.88	399-5228-2-ND	500	432.00	T495X336K025ATE100
	33	±10	8.3	6	0.3	D	399-3882-1-ND	1.40	11.48	25.90	399-3882-2-ND	500	238.00	T495D336K025ATE300
	47	±10	11.8	8	0.08	X	399-5205-1-ND	3.28	27.20	65.00	399-5205-2-ND	500	640.00	T495X476K025ATE080
	47	±10	11.8	8	0.1	X	399-5204-1-ND	2.87	23.80	56.88	399-5204-2-ND	500	560.00	T495X476K025ATE100
	47	±10	11.8	6	0.15	X	399-4705-1-ND	2.46	20.40	48.75	399-4705-2-ND	500	480.00	T495X476K025ATE150
	47	±20	11.8	6	0.2	X	399-3906-1-ND	2.05	17.00	40.63	399-3906-2-ND	500	400.00	T495X476M025ATE200
	47	±20	11.8	10	0.12	D	399-4650-1-ND	2.15	17.63	39.78	399-4650-2-ND	500	365.50	T495D476M025ATE120
	68	±10	17	8	0.125	X	399-4707-1-ND	2.87	23.80	56.88	399-4707-2-ND	500	560.00	T495X686K025ATE125
	68	±10	17	8	0.15	X	399-4706-1-ND	2.46	20.40	48.75	399-4706-2-ND	500	480.00	T495X686K025ATE150
	68	±10	17	8	0.2	X	399-3908-1-ND	2.05	17.00	40.63	399-3908-2-ND	500	400.00	T495X686K025ATE200
	100	±10	25	8	0.1	E	399-5221-1-ND	9.15	85.55	210.19	399-5221-2-ND	500	2028.00	T495E107K025ATE100
	100	±10	25	8	0.15	X	399-5202-1-ND	2.91	24.14	57.69	399-5202-2-ND	400	511.20	T495X107K025ZTE150
35	0.33	±10	0	4	6.0	A	399-5182-1-ND	1.23	10.29	22.17	399-5182-2-ND	2,000	318.00/M	T495A334K035ZTE6K0
	0.47	±10	0	4	4.0	A	399-5183-1-ND	1.20	10.01	21.57	399-5183-2-ND	2,000	309.00/M	T495A474K035ZTE4K0
	0.47	±10	0.5	4	2.2	B	399-4974-1-ND	1.40	11.48	25.90	399-4974-2-ND	2,000	392.00/M	T495B474K035ATE2K2
	1.00	±10	0.5	4	1.7	B	399-4975-1-ND	1.40	11.48	25.90	399-4975-2-ND	2,000	392.00/M	T495B105K035ATE1K7
	2.20	±10	0.8	6	1.5	B	399-4976-1-ND	2.00	16.40	37.00	399-4976-2-ND	2,000	560.00/M	T495B225K035ATE1K5
	6.8	±10	2.4	6	0.4	D	399-3887-1-ND	1.35	11.28	24.30	399-3887-2-ND	500	216.00	T495D685K035ATE400
	22	±10	7.7	6	0.3	D	399-3880-1-ND	1.35	11.28	24.30	399-3880-2-ND	500	216.00	T495D226K035ATE300
	22	±10	7.7	6	0.275	X	399-3899-1-ND	2.40	19.68	44.40	399-3899-2-ND	500	408.00	T495X226K035ATE275
	33	±10	11.6	6	0.2	E	399-5133-1-ND	9.15	85.55	210.19	399-5133-2-ND	500	2028.00	T495E336K035ATE200
	33	±10	11.6	6	0.1	X	399-5203-1-ND	2.46	20.40	48.75	399-5203-2-ND	500	480.00	T495X336K035ATE100
	33	±20	11.6	6	0.175	X	399-5266-1-ND◊	2.26	18.70	44.69	399-5266-2-ND	500	440.00	T495X336M035ATE175
	47	±10	16.5	8	0.3	X	399-3905-1-ND	2.05	17.00	40.63	399-3905-2-ND	500	400.00	T495X476K035ATE300
50	4.7	±10	2.4	6	0.275	D	399-4786-1-ND	2.25	18.45	41.63	399-4786-2-ND	500	382.50	T495D475K050ATE275
	4.7	±20	1.9	4	0.3	X	399-5265-1-ND◊	4.98	46.81	109.48	399-5265-2-ND	500	1057.00	T495X475M050ATE300
	6.8	±10	3.4	6	0.3	D	399-3888-1-ND	2.00	16.40	37.00	399-3888-2-ND	500	340.00	T495D685K050ATE300
	10	±10	5	6	0.3	X	399-3893-1-ND	4.98	46.81	109.48	399-3893-2-ND	500	1057.00	T495X106K050ATE300
	10	±20	5	6	0.3	X	399-3894-1-ND	4.98	46.81	109.48	399-3894-2-ND	500	1057.00	T495X106M050ATE300
	15	±10	7.5	8	0.3	X	399-3897-1-ND	4.98	46.81	109.48	399-3897-2-ND	500	1057.00	T495X156K050ATE300
T496 Series, Fused														
4	330	±10	13.2	8	0.7	X	399-1665-1-ND	4.51	42.36	99.07	399-1665-2-ND	500	1365.00	T496X337K004AS
	330	±20	13.2	8	0.7	X	399-1666-1-ND	4.59	40.77	98.74	—	—	—	T496X337M004AS
6.3	10	±10	0.6	6	3.5	B	399-1667-1-ND	1.63	13.40	30.24	—	—	—	T496B106K006AS
	10	±20	0.6	6	3.5	B	399-1668-1-ND	1.50	12.29	27.72	—	—	—	T496B106M006AS
	100	±20	6	8	0.9	X	399-1672-1-ND	4.26	37.86	91.68	399-1672-2-ND	500	1183.00	T496X107M006AS
10	4.7	±20	0.5	6	3.5	B	399-1674-1-ND	1.50	12.29	27.72	—	—	—	T496B475M010AS
	22	±10	2.2	6	2.0	C	399-1675-1-ND	2.24	18.54	44.31	399-1675-2-ND	500	546.00	T496C226K010AS
	33	±10	3.3	6	1.0	D	399-1677-1-ND	2.91	24.11	57.61	—	—	—	T496D336K010AS
	68	±20	6.8	6	0.9	X	399-1684-1-ND	4.26	37.86	91.68	399-1684-2-ND	500	1183.00	T496X686M010AS
	100	±20	10	8	0.7	D	399-1682-1-ND	2.98	24.72	59.09	—	—	—	T496D107M010AS
	220	±20	22	8	0.5	X	399-1686-1-ND	5.11	48.01	112.28	399-1686-2-ND	500	1547.00	T496X227M010AS
16	2.2	±10	0.5	6	3.5	B	399-1687-1-ND	1.63	13.40	30.24	—	—	—	T496B225K016AS
	15	±10	2.4	6	2.0	C	399-1695-1-ND	2.24	18.54	44.31	—	—	—	T496C156K016AS
	15	±20	2.4	6	2.0	C	399-1696-1-ND	2.05	17.00	40.62	—	—	—	T496C156M016AS
	33	±20	5.3	6	1.0	D	399-1700-1-ND	2.80	23.18	55.39	399-1700-2-ND	500	682.50	T496D336M016AS
	47	±20	7.5	6	0.9	X	399-1704-1-ND	4.26	37.86	91.68	—	—	—	T496X476M016AS
	100	±20	16	8	0.7	X	399-1706-1-ND	4.59	40.77	98.74	399-1706-2-ND	500	1274.00	T496X107M016AS
20	6.8	±10	1.4	6	2.0	C	399-1709-1-ND	2.24	18.54	44.31	—	—	—	T496C685K020AS
	22	±20	4.4	6	1.0	D	399-1714-1-ND	2.80	23.18	55.39	—	—	—	T496D226M020AS
	33	±10	6.6	6	0.9	X	399-1715-1-ND	4.59	40.77	98.74	—	—	—	T496X336K020AS
	33	±20	6.6	6	0.9	X	399-1716-1-ND	4.26	37.86	91.68	—	—	—	T496X336M020AS
	47	±20	9.4	6	0.3	X	399-3465-1-ND	4.59	40.77	98.74	399-3465-2-ND	500	1225.00	T496X476M020AS
25	4.7	±20	1.2	6	2.5	C	399-1718-1-ND	2.05	17.00	40.62	399-1718-2-ND	500	500.50	T496C475M025AS
	22	±10	5.5	6	0.9	X	399-1723-1-ND	4.59	40.77	98.74	—	—	—	T496X226K025AS
35	2.2	±20	0.8	6	3.5	C	399-1728-1-ND	2.05	17.00	40.62	399-1728-2-ND	500	500.50	T496C225M035AS
	6.8	±10	2.4	6	1.3	D	399-1731-1-ND	2.91	24.11	57.61	—	—	—	T496D685K035AS
	6.8	±20	2.4	6	1.3	D	399-1732-1-ND	2.80	23.18	55.39	399-1732-2-ND	500	682.50	T496D685M035AS
50	1.0	±20	0.5	4	5.5	C	399-1738-1-ND	2.46	20.40	48.75	—	—	—	T496C105M050AS
T496 Series, Fused — RoHS Compliant														
4	330	±10	13.2	8	0.7	X	399-3979-1-ND	4.95	46.50	108.75	399-3979-2-ND	500	1050.00	T496X337K004ATE700
	330	±20	13.2	8	0.7	X	399-3980-1-ND	5.04	44.80	108.50	399-3980-2-ND	500	1015.00	T496X337M004AT
6.3	10	±10	0.6	6	3.5	B	399-3911-1-ND	1.80	14.76	33.30	399-3911-2-ND	2,000	504.00/M	T496B106K006ATE3K5
	10	±20	0.6	6	3.5	B	399-3913-1-ND	1.65	13.53	30.53	399-3913-2-ND	2,000	462.00/M	T496B106M006AT
	100	±10	6	8	0.8	D	399-3945-1-ND	3.20	26.52	63.38	399-3945-2-ND	500	624.00	T496D107K006ATE800
	100	±20	6	8	0.8	D	399-3947-1-ND	3.28	27.20	65.00	399-3947-2-ND	500	640.00	T496D107M006AT
	100	±20	6	8	0.9	X	399-3969-1-ND	4.68	41.60	100.75	399-3969-2-ND	500	942.50	T496X107M006AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
10	4.7	±10	0.5	6	3.5	B	399-3919-1-ND	1.80	14.76	33.30	399-3919-2-ND	2,000	504.00/M	T496B475K010AT
	4.7	±20	0.5	6	3.5	B	399-3921-1-ND	1.65	13.53	30.53	399-3921-2-ND	2,000	462.00/M	T496B475M010AT
	22	±10	2.2	6	2.0	C	399-3935-1-ND	2.46	20.40	48.75	399-3935-2-ND	500	480.00	T496C226K010ATE2K0
	22	±20	2.2	6	2.0	C	399-3937-1-ND	2.05	17.00	40.62	—	—	—	T496C226M010AT
	33	±10	3.3	6	1.0	D	399-3953-1-ND	2.91	24.11	57.61	—	—	—	T496D336K010AT
	33	±20	3.3	6	1.0	D	399-3955-1-ND	3.08	25.50	60.94	399-3955-2-ND	500	600.00	T496D336M010ATE1K0
	47	±10	4.7	6	1.0	D	399-3959-1-ND	3.20	26.52	63.38	399-3959-2-ND	500	624.00	T496D476K010ATE1K0
	47	±20	4.7	6	1.0	D	399-3961-1-ND	3.08	25.50	60.94	399-3961-2-ND	500	600.00	T496D476M010ATE1K0
	68	±10	6.8	6	0.9	X	399-3987-1-ND	5.04	44.80	108.50	399-3987-2-ND	500	1015.00	T496X686K010ATE900
	68	±20	6.8	6	0.9	X	399-3988-1-ND	4.68	41.60	100.75	399-3988-2-ND	500	942.50	T496X686M010ATE900
	100	±10	10	8	0.7	D	399-3946-1-ND	3.09	25.65	61.30	399-3946-2-ND	500	747.00	T496D107K010AT
	100	±20	10	8	0.7	D	399-3948-1-ND	3.28	27.20	65.00	399-3948-2-ND	500	640.00	T496D107M010AT
	220	±10	22	8	0.5	X	399-3975-1-ND	5.94	55.80	130.50	399-3975-2-ND	500	1260.00	T496X227K010ATE500
	220	±20	22	8	0.5	X	399-3976-1-ND	5.61	52.70	123.25	399-3976-2-ND	500	1190.00	T496X227M010ATE500
16	2.2	±10	0.5	6	3.5	B	399-3915-1-ND	1.80	14.76	33.30	399-3915-2-ND	2,000	504.00/M	T496B225K016AT
	2.2	±20	0.5	6	3.5	B	399-3917-1-ND	1.50	12.29	27.72	—	—	—	T496B225M016ATE3K5
	4.7	±10	0.8	6	3.5	B	399-3920-1-ND	1.80	14.76	33.30	399-3920-2-ND	2,000	504.00/M	T496B475K016ATE3K5
	4.7	±20	0.8	6	3.5	B	399-3922-1-ND	1.65	13.53	30.53	399-3922-2-ND	2,000	462.00/M	T496B475M016ATE3K5
	10	±10	1.6	6	3.5	B	399-3912-1-ND	1.90	15.58	35.15	399-3912-2-ND	2,000	532.00/M	T496B106K016AT
	10	±20	1.6	6	3.5	B	399-3914-1-ND	1.80	14.76	33.30	399-3914-2-ND	2,000	504.00/M	T496B106M016ATE3K5
	10	±10	1.6	6	2.0	C	399-3925-1-ND	2.46	20.40	48.75	399-3925-2-ND	500	480.00	T496C106K016ATE2K0
	10	±20	1.6	6	2.0	C	399-3928-1-ND	2.26	18.70	44.69	399-3928-2-ND	500	440.00	T496C106M016ATE2K0
	15	±10	2.4	6	2.0	C	399-3931-1-ND	2.46	20.40	48.75	399-3931-2-ND	500	480.00	T496C156K016AT
	15	±20	2.4	6	2.0	C	399-3932-1-ND	2.26	18.70	44.69	399-3932-2-ND	500	440.00	T496C156M016ATE2K0
	22	±10	3.6	6	1.6	C	399-3936-1-ND	2.58	21.42	51.19	399-3936-2-ND	500	504.00	T496C226K016ATE1K6
	22	±20	3.6	6	1.6	C	399-3938-1-ND	2.58	21.42	51.19	399-3938-2-ND	500	504.00	T496C226M016AT
	33	±10	5.3	6	1.0	D	399-3954-1-ND	3.20	26.52	63.38	399-3954-2-ND	500	624.00	T496D336K016AT
	33	±20	5.3	6	1.0	D	399-3956-1-ND	3.08	25.50	60.94	399-3956-2-ND	500	600.00	T496D336M016ATE1K0
	47	±10	7.5	6	0.8	D	399-3960-1-ND	3.40	28.22	67.44	399-3960-2-ND	500	664.00	T496D476K016AT
	47	±20	7.5	6	0.8	D	399-3962-1-ND	3.08	25.50	60.94	399-3962-2-ND	500	600.00	T496D476M016AT
	47	±20	7.5	6	0.9	X	399-3985-1-ND	4.68	41.60	100.75	399-3985-2-ND	500	942.50	T496X476M016ATE900
	100	±10	16	8	0.7	X	399-3968-1-ND	4.95	46.50	108.75	399-3968-2-ND	500	1050.00	T496X107K016ATE700
	100	±20	16	8	0.7	X	399-3970-1-ND	5.04	44.80	108.50	399-3970-2-ND	500	1015.00	T496X107M016AT
20	2.2	±10	0.5	6	3.5	B	399-3916-1-ND	2.05	16.81	37.93	399-3916-2-ND	2,000	574.00/M	T496B225K020AT
	2.2	±20	0.5	6	3.5	B	399-3918-1-ND	1.65	13.53	30.53	399-3918-2-ND	2,000	462.00/M	T496B225M020ATE3K5
	6.8	±10	1.4	6	2.0	C	399-3941-1-ND	2.46	20.40	48.75	399-3941-2-ND	500	480.00	T496C685K020AT
	6.8	±20	1.4	6	2.0	C	399-3942-1-ND	2.26	18.70	44.69	399-3942-2-ND	500	440.00	T496C685M020AT
	10	±10	2	6	2.0	C	399-3926-1-ND	2.46	20.40	48.75	399-3926-2-ND	500	480.00	T496C106K020AT
	10	±20	2	6	2.0	C	399-3929-1-ND	2.26	18.70	44.69	399-3929-2-ND	500	440.00	T496C106M020AT
	22	±10	4.4	6	1.0	D	399-3949-1-ND	3.20	26.52	63.38	399-3949-2-ND	500	624.00	T496D226K020ATE1K0
	22	±20	4.4	6	1.0	D	399-3951-1-ND	2.80	23.18	55.39	—	—	—	T496D226M020AT
	33	±10	6.6	6	0.9	X	399-3977-1-ND	5.04	44.80	108.50	399-3977-2-ND	500	1015.00	T496X336K020ATE900
	47	±10	9.4	6	0.3	X	399-3984-1-ND	4.95	46.50	108.75	399-3984-2-ND	500	1050.00	T496X476K020AT
	47	±20	9.4	6	0.3	X	399-3986-1-ND	5.04	44.80	108.50	399-3986-2-ND	500	1015.00	T496X476M020AT
25	4.7	±10	1.2	6	4.0	B	399-5302-1-ND	1.80	14.76	33.30	399-5302-2-ND	2,000	504.00/M	T496B475K025ATE4K0
	4.7	±10	1.2	6	2.5	C	399-3939-1-ND	2.46	20.40	48.75	399-3939-2-ND	500	480.00	T496C475K025ATE2K5
	10	±10	2.5	6	0.6	C	399-3927-1-ND	2.58	21.42	51.19	399-3927-2-ND	500	504.00	T496C106K025AT
	10	±20	2.5	6	0.6	C	399-3930-1-ND	2.38	19.72	47.13	399-3930-2-ND	500	464.00	T496C106M025AT
	10	±10	2.5	6	1.2	D	399-3943-1-ND	3.20	26.52	63.38	399-3943-2-ND	500	624.00	T496D106K025AT
	10	±20	2.5	6	1.2	D	399-3944-1-ND	3.08	25.50	60.94	399-3944-2-ND	500	600.00	T496D106M025ATE1K2
	22	±10	5.5	6	0.8	D	399-3950-1-ND	3.20	26.52	63.38	399-3950-2-ND	500	624.00	T496D226K025ATE800
	22	±20	5.5	6	0.8	D	399-3952-1-ND	3.28	27.20	65.00	399-3952-2-ND	500	640.00	T496D226M025AT
	22	±10	5.5	6	0.9	X	399-3973-1-ND	5.04	44.80	108.50	399-3973-2-ND	500	1015.00	T496X226K025ATE900
	22	±20	5.5	6	0.9	X	399-3974-1-ND	4.68	41.60	100.75	399-3974-2-ND	500	942.50	T496X226M025AT
35	1.0	±10	0.5	4	5.0	B	399-3909-1-ND	1.80	14.76	33.30	399-3909-2-ND	2,000	504.00/M	T496B105K035ATE5K0
	1.0	±20	0.5	4	5.0	B	399-3910-1-ND	1.90	15.58	35.15	—	—	—	T496B105M035AT
	2.2	±10	0.8	6	3.5	C	399-3933-1-ND	2.67	22.10	52.81	399-3933-2-ND	500	520.00	T496C225K035AT
	2.2	±20	0.8	6	3.5	C	399-3934-1-ND	2.26	18.70	44.69	399-3934-2-ND	500	440.00	T496C225M035AT
	4.7	±10	1.7	6	1.5	D	399-3957-1-ND	3.20	26.52	63.38	399-3957-2-ND	500	624.00	T496D475K035ATE1K5
	4.7	±20	1.7	6	1.5	D	399-3958-1-ND	3.08	25.50	60.94	399-3958-2-ND	500	600.00	T496D475M035ATE1K5
	6.8	±10	2.4	6	1.3	D	399-3963-1-ND	2.91	24.11	57.61	—	—	—	T496D685K035AT
	6.8	±20	2.4	6	1.3	D	399-3964-1-ND	3.08	25.50	60.94	399-3964-2-ND	500	600.00	T496D685M035ATE1K3
	10	±10	3.5	6	1.0	X	399-3965-1-ND	5.22	46.40	112.38	399-3965-2-ND	500	1051.50	T496X106K035ATE500
	10	±20	3.5	6	1.0	X	399-3966-1-ND	4.68	41.60	100.75	399-3966-2-ND	500	942.50	T496X106M035ATE1K0
	15	±20	5.3	6	0.9	X	399-3972-1-ND	5.04	44.80	108.50	399-3972-2-ND	500	1015.00	T496X156M035ATE900
50	1.0	±10	0.5	4	5.5	C	399-3923-1-ND	2.77	22.95	54.84	399-3923-2-ND	500	540.00	T496C105K050AT
	1.0	±20	0.5	4	5.5	C	399-3924-1-ND	2.46	20.40	48.75	—	—	—	T496C105M050AT
	4.7	±10	2.4	6	1.5	X	399-3981-1-ND	5.28	49.60	116.00	399-3981-2-ND	500	1120.00	T496X475K050ATE1K5
	4.7	±20	2.4	6	1.5	X	399-3982-1-ND	4.95	46.50	108.75	399-3982-2-ND	500	1050.00	T496X475M050AT
T498 Series, High Temperature (150°C) — RoHS Compliant														
6	33	±10	2.1	6	1.7	B	399-4753-1-ND	1.12	9.38	20.20	399-4753-2-ND	2,000	289.00/M	T498B336K006ATE1K7
	47	±10	3	6	0.8	C	399-4754-1-ND	1.26	10.36	23.37	399-4754-2-ND	500	215.00	T498C476K006ATE800
	100	±10	6.3	8	0.6	D	399-4755-1-ND	1.63	13.37	30.16	—	—	—	T498D107K006ATE600
10	4.7	±10	0.5	6	2.9	A	399-4756-1-ND**§**	.71	5.97	12.25	399-4756-2-ND	2,000	143.00/M	T498A475K010ATE2K9
	22	±10	2.2	6	1.5	B	399-4757-1-ND	1.12	9.38	20.20	399-4757-2-ND	2,000	289.00/M	T498B226K010ATE1K5
	100	±10	10	8	0.6	D	399-4758-1-ND	2.19	17.99	40.60	399-4758-2-ND	500	373.00	T498D107K010ATE600
	220	±10	22	8	0.5	X	399-4759-1-ND	4.71	41.88	101.42	399-4759-2-ND	500	949.00	T498X227K010ATE500
16	6.8	±10	1.1	6	2.6	A	399-4760-1-ND	.87	7.31	15.00	399-4760-2-ND	2,000	175.00/M	T498A685K016ATE2K6
	10	±10	1.6	6	2.8	B	399-4761-1-ND	.83	7.05	14.63	399-4761-2-ND	2,000	200.00/M	T498B106K016ATE2K8
	22	±10	3.5	4.5	1.6	C	399-5118-1-ND	1.52	12.49	28.18	399-5118-2-ND	750	366.00	T498C226K016ZTZB12
	22	±10	3.6	6	1.0	C	399-4762-1-ND**§**	1.26	10.36	23.37	399-4762-2-ND	500	215.00	T498C226K016ATE1K0
	47	±10	7.5	4.5	0.05	C	399-5229-1-ND	1.71	13.98	31.54	399-5229-2-ND	750	409.50	T498C476K016ZTE500
	47	±10	8	4.5	0.08	C	399-5206-1-ND	1.54	12.66	28.56	—	—	—	T498C476K016ZTE800
	100	±10	16	8	0.075	X	399-5207-1-ND	4.95	46.50	108.75	399-5207-2-ND	500	1050.00	T498X107K016ATE075
	100	±10	16	8	0.1	X	399-5208-1-ND	5.22	46.40	112.38	399-5208-2-ND	500	1051.50	T498X107K016ATE100
25	2.2	±10	0.6	6	3.0	B	399-4763-1-ND	.83	7.05	14.63	399-4763-2-ND	2,000	200.00/M	T498B225K025ATE3K0
	10	±10	2.5	6	1.1	C	399-4764-1-ND	1.26	10.36	23.37	399-4764-2-ND	500	215.00	T498C106K025ATE1K1
	33	±10	8.3	6	0.6	D	399-4765-1-ND	3.81	33.84	81.95	399-4765-2-ND	500	766.50	T498D336K025ATE600
35	1	±10	0.5	4	10.0	A	399-4766-1-ND	.87	7.31	15.00	399-4766-2-ND	2,000	175.00/M	T498A105K035ATE10K
	3.3	±10	1.2	6	1.7	C	399-4767-1-ND	1.31	10.94	23.57	399-4767-2-ND	500	209.50	T498C335K035ATE1K7
	10	±10	3.5	6	0.7	D	399-4768-1-ND	1.80	14.72	33.22	399-4768-2-ND	500	305.00	T498D106K035ATE700
	22	±10	7.7	6	0.7	D	399-5117-1-ND	1.82	14.88	33.58	399-5117-2-ND	750	435.75	T498D226K035ZTE700
	33	±10	11.6	6	0.5	X	399-4769-1-ND	4.71	41.88	101.42	399-4769-2-ND	500	949.00	T498X336K035ATE500
	33	±10	11.6	6	0.5	X	399-5303-1-ND	5.23	46.49	112.58	399-5303-2-ND	400	929.60	T498X336K035ZTE500
	47	±10	16.5	6	0.5	X	399-5164-1-ND	3.43	28.42	67.93	399-5164-2-ND	400	602.00	T498X476K035ZTE500
	47	±20	16.5	6	0.5	X	399-5165-1-ND	3.74	33.25	80.53	399-5165-2-ND	400	665.20	T498X476M035ZTE500
50	10	±10	5	6	1.0	D	399-4770-1-ND	3.00	24.87	59.43	399-4770-2-ND	500	585.00	T498D106K050ATE1K0

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
T499 Series, High Temperature (175°C) — RoHS Compliant														
6.3	2.2	±10	0.5	6	6.5	A	399-4988-1-ND	.89	7.45	15.29	399-4988-2-ND	2,000	178.00/M	T499A225K006ATE6K5
	3.3	±10	0.5	6	8.0	A	399-4989-1-ND	.81	6.74	13.84	—	—	—	T499A335K006ATE8K0
	4.7	±10	0.5	6	6.0	A	399-4990-1-ND	.89	7.45	15.29	399-4990-2-ND	2,000	178.00/M	T499A475K006ATE6K0
	6.8	±10	0.5	6	6.0	A	399-4991-1-ND	.89	7.45	15.29	399-4991-2-ND	2,000	178.00/M	T499A685K006ATE6K0
	6.8	±10	0.5	6	3.5	B	399-4992-1-ND	.93	7.92	16.43	399-4992-2-ND	2,000	224.00/M	T499B685K006ATE3K5
	10	±10	0.6	6	3.5	B	399-4993-1-ND	.93	7.92	16.43	399-4993-2-ND	2,000	224.00/M	T499B106K006ATE3K5
	15	±10	0.9	6	3.5	B	399-4994-1-ND	.93	7.92	16.43	399-4994-2-ND	2,000	224.00/M	T499B156K006ATE3K5
	15	±10	0.9	6	1.8	C	399-4995-1-ND	1.45	11.91	26.87	399-4995-2-ND	500	247.00	T499C156K006ATE1K8
	22	±10	1.4	6	3.5	B	399-4996-1-ND	.94	7.97	16.54	—	—	—	T499B226K006ATE3K5
	22	±10	1.4	6	1.8	C	399-4997-1-ND	1.45	11.91	26.87	399-4997-2-ND	500	247.00	T499C226K006ATE1K8
	33	±10	2.1	6	3.0	B	399-4998-1-ND	1.40	11.70	25.21	399-4998-2-ND	2,000	361.00/M	T499B336K006ATE3K0
	33	±10	2	6	1.8	C	399-4999-1-ND	1.45	11.91	26.87	399-4999-2-ND	500	247.00	T499C336K006ATE1K8
	47	±10	3	6	1.8	C	399-5000-1-ND	1.58	12.93	29.17	399-5000-2-ND	500	268.00	T499C476K006ATE1K8
	47	±10	2.9	6	0.8	D	399-5001-1-ND	2.24	18.38	41.46	399-5001-2-ND	500	381.00	T499D476K006ATE800
	68	±10	4.1	6	1.2	C	399-5002-1-ND	1.98	16.20	36.55	399-5002-2-ND	500	336.00	T499C686K006ATE1K2
	68	±10	4.1	6	0.8	D	399-5003-1-ND	2.24	18.38	41.46	399-5003-2-ND	500	381.00	T499D686K006ATE800
	100	±10	6.3	8	0.8	D	399-5004-1-ND	2.24	18.38	41.46	399-5004-2-ND	500	381.00	T499D107K006ATE800
	150	±10	9	8	0.7	D	399-5005-1-ND	2.25	18.63	44.51	399-5005-2-ND	500	438.00	T499D157K006ATE700
10	1.5	±10	0.5	6	8.0	A	399-5006-1-ND	.89	7.45	15.29	399-5006-2-ND	2,000	178.00/M	T499A155K010ATE8K0
	2.2	±10	0.5	6	8.0	A	399-5007-1-ND	.89	7.45	15.29	399-5007-2-ND	2,000	178.00/M	T499A225K010ATE8K0
	3.3	±10	0.5	6	6.0	A	399-5008-1-ND	.89	7.45	15.29	399-5008-2-ND	2,000	178.00/M	T499A335K010ATE6K0
	4.7	±10	0.5	6	6.0	A	399-5009-1-ND	.89	7.45	15.29	399-5009-2-ND	2,000	178.00/M	T499A475K010ATE6K0
	4.7	±10	0.5	6	3.5	B	399-5010-1-ND	.93	7.92	16.43	399-5010-2-ND	2,000	224.00/M	T499B475K010ATE3K5
	6.8	±10	0.7	6	6.0	A	399-5011-1-ND	.97	8.12	16.67	399-5011-2-ND	2,000	194.00/M	T499A685K010ATE6K0
	6.8	±10	0.7	6	3.5	B	399-5012-1-ND	.93	7.92	16.43	399-5012-2-ND	2,000	224.00/M	T499B685K010ATE3K5
	10	±10	1	6	3.5	B	399-5013-1-ND	.93	7.92	16.43	399-5013-2-ND	2,000	224.00/M	T499B106K010ATE3K5
	10	±10	1	6	1.8	C	399-5014-1-ND	1.45	11.91	26.87	399-5014-2-ND	500	247.00	T499C106K010ATE1K8
	15	±10	1.5	6	3.5	B	399-5015-1-ND	1.04	8.80	18.26	399-5015-2-ND	2,000	249.00/M	T499B156K010ATE3K5
	15	±10	1.5	6	1.8	C	399-5016-1-ND	1.45	11.91	26.87	399-5016-2-ND	500	247.00	T499C156K010ATE1K8
	22	±10	2.2	6	3.0	B	399-5017-1-ND	1.40	11.70	25.21	399-5017-2-ND	2,000	361.00/M	T499B226K010ATE3K0
	22	±10	2.2	6	1.8	C	399-5018-1-ND	1.32	10.81	24.40	—	—	—	T499C226K010ATE1K8
	33	±10	3.3	6	1.8	C	399-5019-1-ND	1.58	12.93	29.17	399-5019-2-ND	500	268.00	T499C336K010ATE1K8
	33	±10	3.3	6	1.6	D	399-5020-1-ND	2.24	18.38	41.46	399-5020-2-ND	500	381.00	T499D336K010ATE1K6
	47	±10	4.7	6	0.8	D	399-5021-1-ND	2.24	18.38	41.46	399-5021-2-ND	500	381.00	T499D476K010ATE800
	68	±10	6.8	6	0.8	D	399-5022-1-ND	2.24	18.38	41.46	399-5022-2-ND	500	381.00	T499D686K010ATE800
	100	±10	10	8	0.7	D	399-5023-1-ND	2.25	18.63	44.51	399-5023-2-ND	500	438.00	T499D107K010ATE700
	220	±10	22	8	0.5	X	399-5024-1-ND	5.39	50.64	118.42	399-5024-2-ND	500	1143.50	T499X227K010ATE500
16	1.0	±10	0.5	4	10.0	A	399-5025-1-ND	.81	6.74	13.84	—	—	—	T499A105K016ATE10K
	1.5	±10	0.5	6	8.0	A	399-5026-1-ND	.89	7.45	15.29	399-5026-2-ND	2,000	178.00/M	T499A155K016ATE8K0
	2.2	±10	0.5	6	6.0	A	399-5027-1-ND	.89	7.45	15.29	399-5027-2-ND	2,000	178.00/M	T499A225K016ATE6K0
	3.3	±10	0.5	6	6.0	A	399-5028-1-ND	.89	7.45	15.29	399-5028-2-ND	2,000	178.00/M	T499A335K016ATE6K0
	3.3	±10	0.8	6	3.5	B	399-5029-1-ND	.93	7.92	16.43	399-5029-2-ND	2,000	224.00/M	T499B335K016ATE3K5
	4.7	±10	0.8	6	6.0	B	399-5030-1-ND	.93	7.92	16.43	399-5030-2-ND	2,000	224.00/M	T499B475K016ATE6K0
	6.8	±10	1.1	6	7.0	A	399-5031-1-ND	.77	6.54	13.56	—	—	—	T499A685K016ATE7K0
	6.8	±10	1.1	6	3.5	B	399-5032-1-ND	.93	7.92	16.43	399-5032-2-ND	2,000	224.00/M	T499B685K016ATE3K5
	6.8	±10	1.6	6	1.8	C	399-5033-1-ND	1.45	11.91	26.87	399-5033-2-ND	500	247.00	T499C685K016ATE1K8
	10	±10	1.6	6	3.5	B	399-5034-1-ND**§**	1.04	8.80	18.26	399-5034-2-ND	2,000	249.00/M	T499B106K016ATE3K5
	10	±10	1.6	6	1.8	C	399-5035-1-ND	1.45	11.91	26.87	399-5035-2-ND	500	247.00	T499C106K016ATE1K8
	15	±10	2.4	6	1.8	C	399-5036-1-ND	1.45	11.91	26.87	399-5036-2-ND	500	247.00	T499C156K016ATE1K8
	22	±10	3.6	6	1.6	C	399-5037-1-ND	1.58	12.93	29.17	399-5037-2-ND	500	268.00	T499C226K016ATE1K6
	22	±10	3.5	6	0.8	D	399-5038-1-ND	2.24	18.38	41.46	399-5038-2-ND	500	381.00	T499D226K016ATE800
	33	±10	5.3	6	0.8	D	399-5039-1-ND	2.24	18.38	41.46	399-5039-2-ND	500	381.00	T499D336K016ATE800
	47	±10	7.5	6	0.8	D	399-5040-1-ND	2.24	18.38	41.46	399-5040-2-ND	500	381.00	T499D476K016ATE800
20	0.68	±10	0.5	4	12.0	A	399-5041-1-ND	.89	7.45	15.29	399-5041-2-ND	2,000	178.00/M	T499A684K020ATE12K
	1.0	±10	0.5	4	10.0	A	399-5042-1-ND	.89	7.45	15.29	399-5042-2-ND	2,000	178.00/M	T499A105K020ATE10K
	1.5	±10	0.5	6	8.0	A	399-5043-1-ND	.89	7.45	15.29	399-5043-2-ND	2,000	178.00/M	T499A155K020ATE8K0
	2.2	±10	0.5	6	3.5	B	399-5044-1-ND	.93	7.92	16.43	399-5044-2-ND	2,000	224.00/M	T499B225K020ATE3K5
	3.3	±10	0.5	6	3.5	B	399-5045-1-ND	.93	7.92	16.43	399-5045-2-ND	2,000	224.00/M	T499B335K020ATE3K5
	4.7	±10	0.5	6	3.5	B	399-5046-1-ND**§**	.93	7.92	16.43	399-5046-2-ND	2,000	224.00/M	T499B475K020ATE3K5
	4.7	±10	0.9	6	2.4	C	399-5047-1-ND	1.45	11.91	26.87	399-5047-2-ND	500	247.00	T499C475K020ATE2K4
	6.8	±10	1.4	6	1.9	C	399-5048-1-ND	1.45	11.91	26.87	399-5048-2-ND	500	247.00	T499C685K020ATE1K9
	10	±10	2	6	1.8	C	399-5049-1-ND	1.32	10.81	24.40	—	—	—	T499C106K020ATE1K8
	15	±10	3	6	1.7	C	399-5050-1-ND	1.58	12.93	29.17	399-5050-2-ND	500	268.00	T499C156K020ATE1K7
	15	±10	3	6	1.0	D	399-5051-1-ND	2.24	18.38	41.46	399-5051-2-ND	500	381.00	T499D156K020ATE1K0
	22	±10	4.4	6	0.8	D	399-5052-1-ND	2.24	18.38	41.46	399-5052-2-ND	500	381.00	T499D226K020ATE800
25	0.47	±10	0.5	4	14.0	A	399-5053-1-ND	.89	7.45	15.29	399-5053-2-ND	2,000	178.00/M	T499A474K025ATE14K
	0.68	±10	0.5	4	10.0	A	399-5054-1-ND	.89	7.45	15.29	399-5054-2-ND	2,000	178.00/M	T499A684K025ATE10K
	1.0	±10	0.5	4	8.0	A	399-5055-1-ND**§**	.97	8.12	16.67	399-5055-2-ND	2,000	194.00/M	T499A105K025ATE8K0
	1.5	±10	0.5	6	5.0	B	399-5056-1-ND	.93	7.92	16.43	399-5056-2-ND	2,000	224.00/M	T499B155K025ATE5K0
	2.2	±10	0.6	6	4.5	B	399-5057-1-ND	1.04	8.80	18.26	399-5057-2-ND	2,000	249.00/M	T499B225K025ATE4K5
	3.3	±10	0.8	6	2.5	C	399-5058-1-ND	1.45	11.91	26.87	399-5058-2-ND	500	247.00	T499C335K025ATE2K5
	4.7	±10	1.2	6	2.4	C	399-5059-1-ND	1.45	11.91	26.87	399-5059-2-ND	500	247.00	T499C475K025ATE2K4
	6.8	±10	1.7	6	1.9	C	399-5060-1-ND	1.45	11.91	26.87	399-5060-2-ND	500	247.00	T499C685K025ATE1K9
	6.8	±10	1.7	6	1.1	D	399-5061-1-ND	2.03	16.69	37.64	—	—	—	T499D685K025ATE1K1
	10	±10	2	6	1.5	C	399-5062-1-ND	1.58	12.93	29.17	399-5062-2-ND	500	268.00	T499C106K025ATE1K5
	10	±10	2.5	6	1.0	D	399-5063-1-ND	2.24	18.38	41.46	399-5063-2-ND	500	381.00	T499D106K025ATE1K0
	15	±10	3.8	6	1.0	D	399-5064-1-ND**§**	2.24	18.38	41.46	399-5064-2-ND	500	381.00	T499D156K025ATE1K0
	22	±10	5.5	6	0.8	D	399-5065-1-ND	2.24	18.38	41.46	399-5065-2-ND	500	381.00	T499D226K025ATE800
	33	±10	8.3	6	0.7	D	399-5066-1-ND	4.75	42.23	102.28	399-5066-2-ND	500	957.00	T499D336K025ATE700
35	0.15	±10	0.5	4	19.0	A	399-5067-1-ND	.89	7.45	15.29	399-5067-2-ND	2,000	178.00/M	T499A154K035ATE19K
	0.22	±10	0.5	4	18.0	A	399-5068-1-ND	.89	7.45	15.29	399-5068-2-ND	2,000	178.00/M	T499A224K035ATE18K
	0.33	±10	0.5	4	15.0	A	399-5069-1-ND	.89	7.45	15.29	399-5069-2-ND	2,000	178.00/M	T499A334K035ATE15K
	0.47	±10	0.5	4	8.0	B	399-5070-1-ND	.93	7.92	16.43	399-5070-2-ND	2,000	224.00/M	T499B474K035ATE8K0
	0.68	±10	0.5	4	6.5	B	399-5071-1-ND	.93	7.92	16.43	399-5071-2-ND	2,000	224.00/M	T499B684K035ATE6K5
	1.0	±10	0.5	4	10.0	A	399-5072-1-ND	.85	7.21	14.97	399-5072-2-ND	2,000	204.00/M	T499A105K035ATE10K
	1.0	±10	0.5	4	5.0	B	399-5073-1-ND**§**	.93	7.92	16.43	399-5073-2-ND	2,000	224.00/M	T499B105K035ATE5K0
	1.5	±10	0.5	6	4.5	C	399-5074-1-ND	1.45	11.91	26.87	399-5074-2-ND	500	247.00	T499C155K035ATE4K5
	2.2	±10	0.5	6	3.5	C	399-5075-1-ND	1.45	11.91	26.87	399-5075-2-ND	500	247.00	T499C225K035ATE3K5
	3.3	±10	1.2	6	2.5	C	399-5076-1-ND	1.45	11.91	26.87	399-5076-2-ND	500	247.00	T499C335K035ATE2K5
	4.7	±10	1.3	6	2.5	C	399-5077-1-ND	1.58	12.93	29.17	399-5077-2-ND	500	268.00	T499C475K035ATE2K5
	4.7	±10	1	6	1.5	D	399-5078-1-ND	2.24	18.38	41.46	399-5078-2-ND	500	381.00	T499D475K035ATE1K5
	6.8	±10	2.4	6	1.3	D	399-5079-1-ND	2.24	18.38	41.46	399-5079-2-ND	500	381.00	T499D685K035ATE1K3
	10	±10	3.5	6	1.0	D	399-5080-1-ND**§**	2.24	18.38	41.46	399-5080-2-ND	500	381.00	T499D106K035ATE1K0
	22	±10	7.7	6	0.7	X	399-5081-1-ND**§**	4.75	42.23	102.28	399-5081-2-ND	500	957.00	T499X226K035ATE700
	33	±10	11.6	6	0.6	X	399-5082-1-ND	5.39	50.64	118.42	399-5082-2-ND	500	1143.50	T499X336K035ATE600
50	3.3	±10	1.7	6	2.0	D	399-5083-1-ND	2.99	24.83	59.35	399-5083-2-ND	500	584.50	T499D335K050ATE2K0
T510 Series, Ultra-Low ESR														
4	680	±20	27.2	6	0.03	X	399-1750-1-ND	7.92	74.05	181.94	—	—	—	T510X687M004AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
T510 Series, Ultra-Low ESR — RoHS Compliant														
4	680	±10	27.2	6	0.03	X	399-4002-1-ND	9.15	85.55	210.19	399-4002-2-ND	500	2028.00	T510X687K004AT
	680	±20	27.2	6	0.03	X	399-4003-1-ND	8.68	81.20	199.50	399-4003-2-ND	500	1925.00	T510X687M004AT
	680	±20	27.2	6	0.03	X	399-5269-1-ND◊	8.68	81.20	199.50	399-5269-2-ND	500	1925.00	T510X687M004ATE030
	1000	±10	40	6	0.018	E	399-3990-1-ND	11.16	104.40	256.50	399-3990-2-ND	500	2475.00	T510E108K004ATE018
	1000	±10	40	6	0.01	E	399-3991-1-ND	11.47	107.30	263.63	399-3991-2-ND	500	2544.00	T510E108K004ATE010
	1000	±20	40	6	0.018	E	399-3992-1-ND	10.39	97.15	238.69	399-3992-2-ND	500	2303.00	T510E108M004ATE018
	1000	±20	40	6	0.01	E	399-3993-1-ND	10.70	100.05	245.81	399-3993-2-ND	500	2372.00	T510E108M004ATE010
6.3	470	±10	28.2	6	0.03	X	399-4000-1-ND	9.15	85.55	210.19	399-4000-2-ND	500	2028.00	T510X477K006ATE030
	470	±20	28.2	6	0.03	X	399-4001-1-ND	8.68	81.20	199.50	399-4001-2-ND	500	1925.00	T510X477M006AT
	680	±10	40.8	6	0.023	E	399-3994-1-ND	10.18	95.21	233.93	—	—	—	T510E687K006AT
	680	±10	40.8	6	0.012	E	399-3995-1-ND	11.47	107.30	263.63	399-3995-2-ND	500	2544.00	T510E687K006ATE012
	680	±20	40.8	6	0.023	E	399-3996-1-ND◊	10.39	97.15	238.69	399-3996-2-ND	500	2303.00	T510E687M006ATE023
	680	±20	40.8	6	0.012	E	399-3997-1-ND	9.75	91.25	224.18	—	—	—	T510E687M006ATE012
10	330	±10	33	6	0.035	X	399-3998-1-ND	9.15	85.55	210.19	399-3998-2-ND	500	2028.00	T510X337K010AT
	330	±20	33	6	0.035	X	399-3999-1-ND	8.68	81.20	199.50	399-3999-2-ND	500	1925.00	T510X337M010ATE035
16	220	±10	35.2	10	0.04	X	399-4805-1-ND	9.15	85.55	210.19	399-4805-2-ND	500	2028.00	T510X227K016ATE040
20	100	±20	20	6	0.04	X	399-4651-1-ND	8.68	81.20	199.50	399-4651-2-ND	500	1925.00	T510X107M020AT
25	68	±10	17	8	0.045	X	399-5230-1-ND	9.15	85.55	210.19	399-5230-2-ND	500	2028.00	T510X686K025ATE045
	100	±20	25	8	0.05	E	399-3989-1-ND	10.08	94.25	231.56	399-3989-2-ND	500	2234.50	T510E107M025ATE050
50	10	±10	5	8	0.12	X	399-4806-1-ND	10.23	95.70	235.13	399-4806-2-ND	500	2269.00	T510X106K050ATE120
	10	±10	5	8	0.09	X	399-4807-1-ND	10.54	98.60	242.25	399-4807-2-ND	500	2337.50	T510X106K050ATE090

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 20°C Max.	DF % @ 20°C 120Hz Max.	ESR Ω @ 20°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
T520 Series, KO-CAP Polymer Tantalum														
2	470	±20	94	10	0.04	V	399-3156-1-ND	3.35	2.79	2.66	399-3156-2-ND	1,000	1530.00	T520V477M002ASE040
2.5	100	±20	25	8	0.07	B	399-3157-1-ND	1.12	.94	.81	399-3157-2-ND	2,000	374.00/M	T520B107M2R5ASE070
	100	±20	25	8	0.04	B	399-3314-1-ND	1.18	.97	.88	399-3314-2-ND	2,000	442.00/M	T520B107M2R5ASE040
	220	±20	55	8	0.07	B	399-3375-1-ND	1.14	.94	.84	399-3375-2-ND	2,000	425.00/M	T520B227M2R5ASE070
	220	±20	55	10	0.015	V	399-3238-1-ND	2.98	2.48	2.37	399-3238-2-ND	1,000	1360.00	T520V227M2R5ASE015
	220	±20	55	10	0.012	V	399-3392-1-ND	2.98	2.48	2.37	399-3392-2-ND	1,000	1360.00	T520V227M2R5ASE012
	220	±20	55	10	0.009	V	399-3391-1-ND	3.17	2.63	2.52	399-3391-2-ND	1,000	1445.00	T520V227M2R5ASE009
	330	±20	83	10	0.015	V	399-3241-1-ND	3.54	2.94	2.81	—	—	—	T520V337M2R5ASE015
	470	±20	118	10	0.009	V	399-3395-1-ND	3.28	2.92	2.83	—	—	—	T520V477M2R5ASE009
	470	±20	118	10	0.015	V	399-3158-1-ND	3.35	2.79	2.66	399-3158-2-ND	1,000	1530.00	T520V477M2R5ASE015
	680	±20	170	10	0.015	D	399-3243-1-ND	3.54	2.94	2.81	—	—	—	T520D687M2R5ASE015
3	100	±20	30	8	0.07	B	399-3059-1-ND	1.12	.94	.81	—	—	—	T520B107M003ASE070
	100	±20	30	8	0.04	B	399-3315-1-ND	1.18	.97	.88	399-3315-2-ND	2,000	442.00/M	T520B107M003ASE040
	150	±20	45	8	0.04	B	399-3316-1-ND	1.32	1.08	.98	399-3316-2-ND	2,000	493.00/M	T520B157M003ASE040
	330	±20	99	10	0.025	V	399-3161-1-ND	3.35	2.79	2.66	399-3161-2-ND	1,000	1530.00	T520V337M003ASE025
	680	±20	204	10	0.04	D	399-3163-1-ND	3.35	2.79	2.66	399-3163-2-ND	500	819.00	T520D687M003ASE040
	1000	±20	300	10	0.03	X	399-3165-1-ND	5.41	5.09	4.76	—	—	—	T520X108M003ASE030
	1000	±20	300	10	0.015	X	399-3166-1-ND	5.56	5.23	4.89	399-3166-2-ND	500	1683.50	T520X108M003ASE015
4	68	±20	27	8	0.04	B	399-3317-1-ND	1.18	.97	.88	—	—	—	T520B686M004ASE040
	100	±20	40	8	0.04	B	399-3318-1-ND	1.18	.97	.88	—	—	—	T520B107M004ASE040
	150	±20	60	10	0.025	V	399-3247-1-ND	2.80	2.32	2.22	399-3247-2-ND	1,000	1275.00	T520V157M004ASE025
	150	±20	60	10	0.012	V	399-3384-1-ND	2.98	2.48	2.37	399-3384-2-ND	1,000	1360.00	T520V157M004ASE012
	150	±20	60	10	0.009	V	399-3383-1-ND	3.17	2.63	2.52	399-3383-2-ND	1,000	1445.00	T520V157M004ASE009
	220	±20	88	10	0.065	D	399-3321-1-ND	1.68	1.38	1.25	399-3321-2-ND	500	336.70	T520D227M004ASE065
	220	±20	88	10	0.045	V	399-1755-1-ND	2.80	2.32	2.22	—	—	—	T520V227M004ASE045
	220	±20	88	10	0.025	V	399-1756-1-ND	2.98	2.48	2.37	—	—	—	T520V227M004ASE025
	220	±20	88	10	0.009	V	399-3387-1-ND	3.35	2.79	2.66	399-3387-2-ND	1,000	1530.00	T520V227M004ASE009
	330	±20	132	10	0.009	D	399-3378-1-ND	1.94	1.61	1.54	—	—	—	T520D337M004ASE009
	330	±20	132	10	0.04	V	399-3251-1-ND	2.80	2.32	2.22	399-3251-2-ND	1,000	1275.00	T520V337M004ASE040
	330	±20	132	10	0.012	V	399-3394-1-ND	3.17	2.63	2.52	—	—	—	T520V337M004ASE012
	330	±20	132	10	0.009	V	399-3393-1-ND	3.35	2.79	2.66	399-3393-2-ND	1,000	1530.00	T520V337M004ASE009
	680	±20	272	10	0.035	X	399-3169-1-ND	5.41	5.09	4.76	—	—	—	T520X687M004ASE035
6.3	33	±20	21	8	0.07	B	399-3171-1-ND	1.12	.94	.81	—	—	—	T520B336M006ASE070
	100	±20	63	10	0.012	V	399-3382-1-ND	2.98	2.48	2.37	—	—	—	T520V107M006ASE012
	150	±20	94.5	10	0.025	D	399-3334-1-ND	1.91	1.57	1.42	—	—	—	T520D157M006ASE025
	150	±20	95	10	0.045	V	399-1758-1-ND	2.80	2.32	2.22	—	—	—	T520V157M006ASE045
	150	±20	95	10	0.04	V	399-3255-1-ND	2.80	2.32	2.22	399-3255-2-ND	1,000	1275.00	T520V157M006ASE040
	150	±20	95	10	0.025	V	399-3174-1-ND	2.98	2.48	2.37	399-3174-2-ND	1,000	1360.00	T520V157M006ASE025
	150	±20	95	10	0.012	V	399-3386-1-ND	3.17	2.63	2.52	399-3386-2-ND	1,000	1445.00	T520V157M006ASE012
	220	±20	139	10	0.04	V	399-3175-1-ND	3.35	2.79	2.66	399-3175-2-ND	1,000	1530.00	T520V227M006ASE040
	220	±20	139	10	0.012	V	399-3390-1-ND	3.28	2.92	2.83	—	—	—	T520V227M006ASE012
8	33	±20	27	8	0.07	B	399-3256-1-ND	1.12	.94	.81	399-3256-2-ND	2,000	374.00/M	T520B336M008ASE070
	150	±20	120	10	0.04	D	399-3258-1-ND	2.80	2.32	2.22	399-3258-2-ND	500	682.50	T520D157M008ASE040
	150	±20	120	10	0.025	D	399-3257-1-ND	2.98	2.48	2.37	399-3257-2-ND	500	728.00	T520D157M008ASE025
10	68	±20	68	10	0.06	V	399-1766-1-ND	2.80	2.32	2.22	—	—	—	T520V686M010ASE060
	68	±20	68	10	0.045	V	399-3330-1-ND	2.98	2.48	2.37	—	—	—	T520V686M010ASE045
T520 Series, KO-CAP Polymer Tantalum — RoHS Compliant														
2	470	±20	94	10	0.04	V	399-4107-1-ND	3.69	3.06	2.93	399-4107-2-ND	1,000	1260.00	T520V477M002ATE040
2.5	47	±20	12	8	0.09	A	399-4708-1-ND	1.06	.91	.75	399-4708-2-ND	2,000	255.00/M	T520A476M2R5ATE090
	68	±20	17	8	0.07	A	399-4709-1-ND	1.13	.94	.81	399-4709-2-ND	2,000	290.00/M	T520A686M2R5ATE070
	100	±20	25	8	0.025	B	399-5144-1-ND	1.70	1.40	1.26	399-5144-2-ND	2,000	476.00/M	T520B107M2R5ATE025
	100	±20	25	8	0.07	B	399-4011-1-ND	1.24	1.04	.90	399-4011-2-ND	2,000	319.00/M	T520B107M2R5ATE070
	100	±20	25	8	0.04	B	399-4010-1-ND	1.30	1.07	.97	399-4010-2-ND	2,000	364.00/M	T520B107M2R5ATE040
	220	±20	55	8	0.015	B	399-5304-1-ND	2.25	1.85	1.67	399-5304-2-ND	2,000	630.00/M	T520B227M2R5ATE015
	220	±20	55	8	0.021	B	399-5603-1-ND	1.85	1.52	1.37	399-5603-2-ND	2,000	518.00/M	T520B227M2R5ATE021
	220	±20	55	8	0.03	B	399-4729-1-ND	1.65	1.36	1.23	399-4729-2-ND	2,000	462.00/M	T520B227M2R5ATE030
	220	±20	55	8	0.025	C	399-4808-1-ND	2.00	1.64	1.48	399-4808-2-ND	500	340.00	T520C227M2R5ATE025
	220	±20	55	8	0.035	B	399-3469-1-ND	1.45	1.19	1.08	399-3469-2-ND	2,000	406.00/M	T520B227M2R5ATE035
	220	±20	55	8	0.045	C	399-4652-1-ND	1.75	1.44	1.30	399-4652-2-ND	500	297.50	T520C227M2R5ATE045
	220	±20	55	8	0.07	B	399-4016-1-ND	1.25	1.03	.93	399-4016-2-ND	2,000	350.00/M	T520B227M2R5ATE070
	220	±20	55	10	0.007	V	399-4710-1-ND	3.69	3.06	2.93	399-4710-2-ND	1,000	1260.00	T520V227M2R5ATE007
	220	±20	55	10	0.007	D	399-4722-1-ND	3.28	2.72	2.60	399-4722-2-ND	1,000	1120.00	T520D227M2R5ATE007

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 20°C Max.	DF % @ 20°C 120Hz Max.	ESR Ω @ 20°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
2.5	220	±20	55	10	0.045	V	399-4093-1-ND	2.87	2.38	2.28	399-4093-2-ND	1,000	980.00	T520V227M2R5ATE045
	220	±20	55	10	0.025	V	399-4092-1-ND	3.08	2.55	2.44	399-4092-2-ND	1,000	1050.00	T520V227M2R5ATE025
	220	±20	55	10	0.015	V	399-4091-1-ND	3.28	2.72	2.60	399-4091-2-ND	1,000	1120.00	T520V227M2R5ATE015
	220	±20	55	10	0.012	V	399-4090-1-ND	3.28	2.72	2.60	399-4090-2-ND	1,000	1120.00	T520V227M2R5ATE012
	220	±20	55	10	0.009	V	399-4089-1-ND	3.49	2.89	2.77	399-4089-2-ND	1,000	1190.00	T520V227M2R5ATE009
	330	±20	83	8	.045	B	399-4742-1-ND	1.50	1.23	1.11	399-4742-2-ND	2,000	420.00/M	T520B337M2R5ATE045
	330	±20	83	10	0.007	D	399-4712-1-ND	3.78	3.36	3.26	399-4712-2-ND	500	761.50	T520D337M2R5ATE007
	330	±20	83	10	0.04	W	399-4809-1-ND	3.90	3.23	3.09	399-4809-2-ND	1,000	1330.00	T520W337M2R5ATE040
	330	±20	83	10	0.007	V	399-4711-1-ND	3.96	3.52	3.41	399-4711-2-ND	1,000	1485.00	T520V337M2R5ATE007
	330	±20	83	10	0.04	V	399-4653-1-ND	3.69	3.06	2.93	399-4653-2-ND	1,000	1260.00	T520V337M2R5ATE040
	330	±20	83	10	0.025	L	399-5134-1-ND	2.97	2.47	2.36	399-5134-2-ND	1,000	1015.00	T520L337M2R5ATE025
	330	±20	83	10	0.025	V	399-4105-1-ND	3.69	3.06	2.93	399-4105-2-ND	1,000	1260.00	T520V337M2R5ATE025
	330	±20	83	10	0.015	V	399-4104-1-ND	3.90	3.23	3.09	399-4104-2-ND	1,000	1330.00	T520V337M2R5ATE015
	330	±20	99	10	0.009	V	399-4103-1-ND	3.60	3.20	3.10	399-4103-2-ND	1,000	1350.00	T520V337M2R5ATE009
	470	±20	118	10	0.007	D	399-4654-1-ND	4.32	3.84	3.72	399-4654-2-ND	500	870.00	T520D477M2R5ATE007
	470	±20	118	10	0.009	D	399-4062-1-ND	3.60	3.20	3.10	399-4062-2-ND	500	725.00	T520D477M2R5ATE009
	470	±20	118	10	0.009	V	399-4108-1-ND	3.60	3.20	3.10	399-4108-2-ND	1,000	1350.00	T520V477M2R5ATE009
	470	±20	118	10	0.015	V	399-4110-1-ND	3.69	3.06	2.93	399-4110-2-ND	1,000	1260.00	T520V477M2R5ATE015
	470	±20	118	10	0.012	V	399-4109-1-ND	3.90	3.23	3.09	399-4109-2-ND	1,000	1330.00	T520V477M2R5ATE012
	680	±20	170	10	0.04	D	399-4066-1-ND	3.69	3.06	2.93	399-4066-2-ND	500	720.00	T520D687M2R5ATE040
	680	±20	170	10	0.015	D	399-4065-1-ND	3.90	3.23	3.09	399-4065-2-ND	500	760.00	T520D687M2R5ATE015
	1000	±20	250	10	0.03	D	399-4744-1-ND	3.69	3.06	2.93	399-4744-2-ND	500	720.00	T520D108M2R5ATE030
3	100	±20	30	8	0.07	B	399-4005-1-ND	1.12	.94	.81	—	—	—	T520B107M003ATE070
	100	±20	30	8	0.04	B	399-4004-1-ND	1.30	1.07	.97	399-4004-2-ND	2,000	364.00/M	T520B107M003ATE040
	100	±20	30	8	0.025	B	399-5145-1-ND	1.70	1.40	1.26	399-5145-2-ND	2,000	476.00/M	T520B107M003ATE025
	150	±20	45	8	0.025	B	399-5135-1-ND	1.85	1.52	1.37	399-5135-2-ND	2,000	518.00/M	T520B157M003ATE025
	150	±20	45	8	0.07	B	399-4013-1-ND	1.25	1.03	.93	399-4013-2-ND	2,000	350.00/M	T520B157M003ATE070
	150	±20	45	8	0.04	B	399-4012-1-ND	1.45	1.19	1.08	399-4012-2-ND	2,000	406.00/M	T520B157M003ATE040
	330	±20	99	10	0.015	V	399-4095-1-ND	3.90	3.23	3.09	399-4095-2-ND	1,000	1330.00	T520V337M003ATE015
	330	±20	99	10	0.025	V	399-4096-1-ND	3.35	2.79	2.66	399-4096-2-ND	1,000	1440.00	T520V337M003ATE025
	680	±20	204	10	0.04	D	399-4064-1-ND	3.69	3.06	2.93	399-4064-2-ND	500	720.00	T520D687M003ATE040
	680	±20	204	10	0.015	D	399-4063-1-ND	3.90	3.23	3.09	399-4063-2-ND	500	760.00	T520D687M003ATE015
	1000	±20	300	10	0.03	X	399-4114-1-ND	5.94	5.58	5.22	399-4114-2-ND	500	1260.00	T520X108M003ATE030
	1000	±20	300	10	0.015	X	399-4113-1-ND	6.11	5.74	5.37	399-4113-2-ND	500	1295.00	T520X108M003ATE015
4	15	±20	6	8	0.1	T	399-3245-1-ND	1.25	1.03	.93	399-3245-2-ND	2,500	350.00/M	T520T156M004ATE100
	47	±20	19	8	0.07	A	399-4714-1-ND	1.18	.99	.86	399-4714-2-ND	2,000	305.00/M	T520A476M004ATE070
	47	±20	19	8	0.07	T	399-3380-1-ND	1.35	1.11	1.00	399-3380-2-ND	2,500	378.00/M	T520T476M004ATE070
	68	±20	27	8	0.025	B	399-5136-1-ND	1.70	1.40	1.26	399-5136-2-ND	2,000	476.00/M	T520B686M004ATE025
	68	±20	27	8	0.04	B	399-4025-1-ND	1.30	1.07	.97	399-4025-2-ND	2,000	364.00/M	T520B686M004ATE040
	68	±20	27	8	0.07	B	399-4026-1-ND	1.24	1.04	.90	399-4026-2-ND	2,000	319.00/M	T520B686M004ATE070
	100	±20	40	8	0.025	B	399-5146-1-ND	1.50	1.23	1.11	399-5146-2-ND	2,000	420.00/M	T520B107M004ATE025
	100	±20	40	8	0.035	B	399-4715-1-ND	1.30	1.07	.97	399-4715-2-ND	2,000	364.00/M	T520B107M004ATE035
	100	±20	40	8	0.07	B	399-4007-1-ND	1.24	1.04	.90	399-4007-2-ND	2,000	319.00/M	T520B107M004ATE070
	100	±20	40	8	0.04	B	399-4006-1-ND	1.30	1.07	.97	399-4006-2-ND	2,000	364.00/M	T520B107M004ATE040
	100	±20	40	10	0.07	T	399-5289-1-ND	1.75	1.44	1.30	399-5289-2-ND	2,500	490.00/M	T520T107M004ATE070
	100	±20	40	10	0.15	T	399-5288-1-ND	1.55	1.28	1.15	399-5288-2-ND	2,500	434.00/M	T520T107M004ATE150
	150	±20	60	8	0.015	B	399-5305-1-ND	2.25	1.85	1.67	399-5305-2-ND	2,000	630.00/M	T520B157M004ATE015
	150	±20	60	8	0.018	B	399-5307-1-ND	2.05	1.69	1.52	399-5307-2-ND	2,000	574.00/M	T520B157M004ATE018
	150	±20	60	8	0.025	C	399-4810-1-ND	2.00	1.64	1.48	399-4810-2-ND	500	340.00	T520C157M004ATE025
	150	±20	60	8	0.03	B	399-4728-1-ND	1.65	1.36	1.23	399-4728-2-ND	2,000	462.00/M	T520B157M004ATE030
	150	±20	60	8	0.04	B	399-4014-1-ND	1.45	1.19	1.08	399-4014-2-ND	2,000	406.00/M	T520B157M004ATE040
	150	±20	60	8	0.07	B	399-4015-1-ND	1.25	1.03	.93	399-4015-2-ND	2,000	350.00/M	T520B157M004ATE070
	150	±20	60	8	0.045	C	399-4655-1-ND	1.75	1.44	1.30	399-4655-2-ND	500	297.50	T520C157M004ATE045
	150	±20	60	10	0.007	V	399-4716-1-ND	3.69	3.06	2.93	399-4716-2-ND	1,000	1260.00	T520V157M004ATE007
	150	±20	60	10	0.025	V	399-4075-1-ND	3.08	2.55	2.44	399-4075-2-ND	1,000	1050.00	T520V157M004ATE025
	150	±20	60	10	0.012	V	399-4073-1-ND	3.28	2.72	2.60	399-4073-2-ND	1,000	1120.00	T520V157M004ATE012
	150	±20	60	10	0.009	V	399-4072-1-ND	3.49	2.89	2.77	399-4072-2-ND	1,000	1190.00	T520V157M004ATE009
	150	±20	60	10	0.015	V	399-4074-1-ND	3.28	2.72	2.60	399-4074-2-ND	1,000	1120.00	T520V157M004ATE015
	220	±20	88	8	0.045	B	399-4731-1-ND	1.45	1.19	1.08	399-4731-2-ND	2,000	406.00/M	T520B227M004ATE045
	220	±20	88	8	0.07	B	399-4730-1-ND	1.25	1.03	.93	399-4730-2-ND	2,000	350.00/M	T520B227M004ATE070
	220	±20	88	10	0.025	L	399-5137-1-ND	2.97	2.47	2.36	399-5137-2-ND	1,000	979.00	T520L227M004ATE025
	220	±20	88	8	0.018	C	399-5233-1-ND	2.25	1.85	1.67	399-5233-2-ND	500	382.50	T520C227M004ATE018
	220	±20	88	8	0.015	C	399-5232-1-ND	2.05	1.70	1.63	399-5232-2-ND	500	400.00	T520C227M004ATE015
	220	±20	88	10	0.012	D	399-4734-1-ND	2.35	1.93	1.74	399-4734-2-ND	500	399.50	T520D227M004ATE012
	220	±20	88	10	0.007	D	399-4724-1-ND	2.12	1.77	1.69	—	—	—	T520D227M004ATE007
	220	±20	88	10	0.007	V	399-4717-1-ND	3.54	2.94	2.81	—	—	—	T520V227M004ATE007
	220	±20	88	10	0.04	W	399-4811-1-ND	3.49	2.89	2.77	399-4811-2-ND	1,000	1190.00	T520W227M004ATE040
	220	±20	88	10	0.065	D	399-4041-1-ND	1.85	1.52	1.37	399-4041-2-ND	500	314.50	T520D227M004ATE065
	220	±20	88	10	0.045	V	399-4084-1-ND	3.08	2.55	2.44	399-4084-2-ND	1,000	1050.00	T520V227M004ATE045
	220	±20	88	10	0.025	V	399-4083-1-ND	3.28	2.72	2.60	399-4083-2-ND	1,000	1120.00	T520V227M004ATE025
	220	±20	88	10	0.012	V	399-4082-1-ND	3.49	2.89	2.77	399-4082-2-ND	1,000	1190.00	T520V227M004ATE012
	220	±20	88	10	0.009	V	399-4081-1-ND	3.69	3.06	2.93	399-4081-2-ND	1,000	1260.00	T520V227M004ATE009
	330	±20	132	10	0.007	V	399-4656-1-ND	3.90	3.23	3.09	399-4656-2-ND	1,000	1330.00	T520V337M004ATE007
	330	±20	132	10	0.007	D	399-4657-1-ND	2.34	1.94	1.86	399-4657-2-ND	500	456.00	T520D337M004ATE007
	330	±20	132	10	0.045	D	399-4051-1-ND	1.85	1.52	1.37	399-4051-2-ND	500	314.50	T520D337M004ATE045
	330	±20	132	10	0.04	D	399-4050-1-ND	2.10	1.73	1.56	399-4050-2-ND	500	357.00	T520D337M004ATE040
	330	±20	132	10	0.015	D	399-4049-1-ND	2.35	1.93	1.74	399-4049-2-ND	500	399.50	T520D337M004ATE015
	330	±20	132	10	0.009	D	399-4048-1-ND	2.13	1.77	1.69	399-4048-2-ND	500	416.00	T520D337M004ATE009
	330	±20	132	10	0.04	V	399-4100-1-ND	3.08	2.55	2.44	399-4100-2-ND	1,000	1050.00	T520V337M004ATE040
	330	±20	132	10	0.025	V	399-4099-1-ND	3.28	2.72	2.60	399-4099-2-ND	1,000	1120.00	T520V337M004ATE025
	330	±20	132	10	0.012	V	399-4098-1-ND	3.49	2.89	2.77	399-4098-2-ND	1,000	1190.00	T520V337M004ATE012
	330	±20	132	10	0.009	V	399-4097-1-ND	3.69	3.06	2.93	399-4097-2-ND	1,000	1260.00	T520V337M004ATE009
	470	±20	188	10	0.04	D	399-4061-1-ND	2.15	1.77	1.60	399-4061-2-ND	500	365.50	T520D477M004ATE040
	470	±20	188	10	0.025	D	399-4060-1-ND	2.40	1.97	1.78	399-4060-2-ND	500	408.00	T520D477M004ATE025
	470	±20	188	10	0.018	D	399-4059-1-ND	2.40	1.97	1.78	399-4059-2-ND	500	408.00	T520D477M004ATE018
	470	±20	188	10	0.015	D	399-4058-1-ND	2.17	1.81	1.73	399-4058-2-ND	500	424.00	T520D477M004ATE015
	470	±20	188	10	0.012	D	399-4057-1-ND	2.17	1.81	1.73	399-4057-2-ND	500	424.00	T520D477M004ATE012

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 20°C Max.	DF % @ 20°C 120Hz Max.	ESR Ω @ 20°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
4	470	±20	188	10	0.010	D	399-5624-1-ND	2.38	1.98	1.89	399-5624-2-ND	500	464.00	T520D477M004ATE010
	680	±20	272	10	0.035	X	399-4120-1-ND	5.94	5.58	5.22	399-4120-2-ND	500	1260.00	T520X687M004ATE035
	680	±20	272	10	0.015	X	399-4119-1-ND	6.11	5.74	5.37	399-4119-2-ND	500	1295.00	T520X687M004ATE015
	680	±20	272	10	0.015	Y	399-5273-1-ND	3.96	3.52	3.41	399-5273-2-ND	500	797.50	T520Y687M004ATE015
6.3	15	±20	9.5	8	0.1	T	399-3254-1-ND	1.25	1.03	.93	399-3254-2-ND	2,500	350.00/M	T520T156M006ATE100
	22	±20	14	8	0.09	A	399-4718-1-ND	1.13	.94	.81	399-4718-2-ND	2,000	290.00/M	T520A226M006ATE090
	22	±20	14	8	0.1	A	399-5271-1-ND	1.06	.91	.75	399-5271-2-ND	2,000	255.00/M	T520A226M006ATE100
	33	±20	20.8	8	0.07	T	399-3354-1-ND	1.35	1.11	1.00	399-3354-2-ND	2,500	378.00/M	T520T336M006ATE070
	33	±20	21	8	0.07	A	399-4719-1-ND	1.18	.99	.86	399-4719-2-ND	2,000	305.00/M	T520A336M006ATE070
	33	±20	21	8	0.07	B	399-4018-1-ND	1.24	1.04	.90	399-4018-2-ND	2,000	319.00/M	T520B336M006ATE070
	33	±20	21	8	0.04	B	399-4017-1-ND	1.30	1.07	.97	399-4017-2-ND	2,000	364.00/M	T520B336M006ATE040
	33	±20	21	8	0.025	B	399-5122-1-ND	1.70	1.40	1.26	399-5122-2-ND	2,000	476.00/M	T520B336M006ATE025
	33	±20	21	10	0.1	C	399-5604-1-ND	1.75	1.44	1.30	399-5604-2-ND	500	297.50	T520C336M006ATE100
	47	±20	30	8	0.07	B	399-4024-1-ND	1.24	1.04	.90	399-4024-2-ND	2,000	319.00/M	T520B476M006ATE070
	47	±20	30	8	0.07	T	399-3470-1-ND	1.35	1.11	1.00	399-3470-2-ND	2,500	378.00/M	T520T476M006ATE070
	47	±20	30	8	0.04	B	399-4023-1-ND	1.30	1.07	.97	399-4023-2-ND	2,000	364.00/M	T520B476M006ATE040
	47	±20	30	8	0.04	T	399-4977-1-ND	1.55	1.28	1.15	399-4977-2-ND	2,500	434.00/M	T520T476M006ATE040
	47	±20	30	8	0.025	B	399-5138-1-ND	1.70	1.40	1.26	399-5138-2-ND	2,000	476.00/M	T520B476M006ATE025
	68	±20	43	8	0.07	B	399-4028-1-ND	1.24	1.04	.90	399-4028-2-ND	2,000	319.00/M	T520B686M006ATE070
	68	±20	43	8	0.04	B	399-4027-1-ND	1.30	1.07	.97	399-4027-2-ND	2,000	364.00/M	T520B686M006ATE040
	68	±20	43	10	0.07	T	399-5291-1-ND	1.70	1.40	1.26	399-5291-2-ND	2,500	476.00/M	T520T686M006ATE070
	68	±20	43	10	0.1	C	399-5606-1-ND	1.75	1.44	1.30	399-5606-2-ND	500	297.50	T520C686M006ATE100
	68	±20	43	10	0.15	T	399-5290-1-ND	1.50	1.23	1.11	399-5290-2-ND	2,500	420.00/M	T520T686M006ATE150
	68	±20	43	8	0.025	B	399-5231-1-ND	1.70	1.40	1.26	399-5231-2-ND	2,000	476.00/M	T520B686M006ATE025
	68	±20	43	10	0.07	U	399-5287-1-ND	2.67	2.21	2.12	399-5287-2-ND	1,000	910.00	T520U686M006ATE070
	100	±20	63	8	0.07	B	399-4009-1-ND	1.35	1.13	.98	399-4009-2-ND	2,000	348.00/M	T520B107M006ATE070
	100	±20	63	10	0.015	V	399-5210-1-ND	3.28	2.72	2.60	399-5210-2-ND	1,000	1120.00	T520V107M006ATE015
	100	±20	63	8	0.015	B	399-5306-1-ND	2.20	1.81	1.63	399-5306-2-ND	2,000	616.00/M	T520B107M006ATE015
	100	±20	63	8	0.018	B	399-5308-1-ND	2.00	1.64	1.48	399-5308-2-ND	2,000	560.00/M	T520B107M006ATE018
	100	±20	63	8	0.04	B	399-4008-1-ND	1.40	1.15	1.04	399-4008-2-ND	2,000	392.00/M	T520B107M006ATE040
	100	±20	63	8	0.025	C	399-4812-1-ND	2.00	1.64	1.48	399-4812-2-ND	1,000	600.00	T520C107M006ATE025
	100	±20	63	8	0.045	B	399-5147-1-ND	1.40	1.15	1.04	399-5147-2-ND	2,000	392.00/M	T520B107M006ATE045
	100	±20	63	8	0.045	C	399-4658-1-ND	1.75	1.44	1.30	399-4658-2-ND	500	297.50	T520C107M006ATE045
	100	±20	63	10	0.007	V	399-4720-1-ND	3.69	3.06	2.93	399-4720-2-ND	1,000	1260.00	T520V107M006ATE007
	100	±20	63	10	0.012	V	399-4068-1-ND	3.28	2.72	2.60	399-4068-2-ND	1,000	1120.00	T520V107M006ATE012
	100	±20	63	10	0.009	V	399-4067-1-ND	3.49	2.89	2.77	399-4067-2-ND	1,000	1190.00	T520V107M006ATE009
	100	±20	63	10	0.045	V	399-4978-1-ND	2.38	1.98	1.89	399-4978-2-ND	1,000	1050.00	T520V107M006ATE045
	100	±20	63	10	0.04	W	399-4735-1-ND	3.28	2.72	2.60	399-4735-2-ND	1,000	1120.00	T520W107M006ATE040
	100	±20	63	8	0.07	T	399-5752-1-ND ***NEW!***	1.65	1.36	1.23	399-5752-2-ND ***NEW!***	2,500	462.00/M	T520T107M006ATE070
	150	±20	95	8	0.045	B	399-4733-1-ND	1.40	1.15	1.04	399-4733-2-ND	2,000	392.00/M	T520B157M006ATE045
	150	±20	95	8	0.07	B	399-4732-1-ND	1.35	1.13	.98	399-4732-2-ND	2,000	348.00/M	T520B157M006ATE070
	150	±20	95	10	0.007	D	399-4726-1-ND	2.34	1.94	1.86	399-4726-2-ND	500	456.00	T520D157M006ATE007
	150	±20	95	10	0.007	V	399-4721-1-ND	3.90	3.23	3.09	399-4721-2-ND	1,000	1330.00	T520V157M006ATE007
	150	±20	95	10	0.055	D	399-4035-1-ND	1.85	1.52	1.37	399-4035-2-ND	500	314.50	T520D157M006ATE055
	150	±20	94.5	8	0.055	U	399-5310-1-ND	3.08	2.55	2.44	399-5310-2-ND	1,000	1050.00	T520U157M006ATE055
	150	±20	94.5	10	0.025	D	399-4034-1-ND	2.10	1.73	1.56	399-4034-2-ND	500	357.00	T520D157M006ATE025
	150	±20	94.5	8	0.045	U	399-5311-1-ND	3.28	2.72	2.60	399-5311-2-ND	1,000	1120.00	T520U157M006ATE045
	150	±20	95	10	0.015	D	399-4033-1-ND	2.10	1.73	1.56	399-4033-2-ND	500	357.00	T520D157M006ATE015
	150	±20	95	8	0.025	B	399-5753-1-ND ***NEW!***	1.80	1.48	1.34	399-5753-2-ND ***NEW!***	2,000	504.00/M	T520B157M006ATE025
	150	±20	95	10	0.04	V	399-4079-1-ND	3.08	2.55	2.44	399-4079-2-ND	1,000	1050.00	T520V157M006ATE040
	150	±20	95	10	0.015	V	399-5272-1-ND	3.49	2.89	2.77	399-5272-2-ND	1,000	1190.00	T520V157M006ATE015
	150	±20	95	10	0.025	L	399-5139-1-ND	2.95	2.45	2.34	399-5139-2-ND	500	576.00	T520L157M006ATE025
	150	±20	95	10	0.025	V	399-4078-1-ND	3.28	2.72	2.60	399-4078-2-ND	1,000	1120.00	T520V157M006ATE025
	150	±20	95	10	0.012	V	399-4077-1-ND	3.49	2.89	2.77	399-4077-2-ND	1,000	1190.00	T520V157M006ATE012
	150	±20	95	10	0.009	V	399-4076-1-ND	3.69	3.06	2.93	399-4076-2-ND	1,000	1260.00	T520V157M006ATE009
	220	±20	139	8	0.018	C	399-5235-1-ND	2.35	1.93	1.74	399-5235-2-ND	500	399.50	T520C227M006ATE018
	220	±20	139	8	0.015	C	399-5234-1-ND	2.13	1.77	1.69	399-5234-2-ND	500	416.00	T520C227M006ATE015
	220	±20	139	10	0.05	D	399-4044-1-ND	1.85	1.52	1.37	399-4044-2-ND	500	314.50	T520D227M006ATE050
	220	±20	139	10	0.04	D	399-4043-1-ND	2.10	1.73	1.56	399-4043-2-ND	500	357.00	T520D227M006ATE040
	220	±20	139	10	0.025	D	399-5167-1-ND	2.10	1.73	1.56	399-5167-2-ND	500	357.00	T520D227M006ATE025
	220	±20	139	10	0.018	D	399-5166-1-ND	2.35	1.93	1.74	399-5166-2-ND	500	399.50	T520D227M006ATE018
	220	±20	139	10	0.009	D	399-4042-1-ND	2.13	1.77	1.69	399-4042-2-ND	500	416.00	T520D227M006ATE009
	220	±20	139	10	0.04	V	399-4088-1-ND	3.69	3.06	2.93	399-4088-2-ND	1,000	1260.00	T520V227M006ATE040
	220	±20	139	10	0.025	V	399-4087-1-ND	3.90	3.23	3.09	399-4087-2-ND	1,000	1330.00	T520V227M006ATE025
	220	±20	139	10	0.012	V	399-4086-1-ND	3.60	3.20	3.10	399-4086-2-ND	1,000	1350.00	T520V227M006ATE012
	220	±20	139	10	0.009	V	399-4085-1-ND	3.78	3.36	3.26	399-4085-2-ND	1,000	1418.00	T520V227M006ATE009
	220	±20	139	10	0.007	V	399-4659-1-ND	3.96	3.52	3.41	399-4659-2-ND	1,000	1485.00	T520V227M006ATE007
	220	±20	139	8	0.035	B	399-5754-1-ND ***NEW!***	2.00	1.64	1.48	399-5754-2-ND ***NEW!***	2,000	560.00/M	T520B227M006ATE035
	220	±20	139	8	0.045	B	399-5755-1-ND ***NEW!***	1.80	1.48	1.34	399-5755-2-ND ***NEW!***	2,000	504.00/M	T520B227M006ATE045
	220	±20	139	8	0.070	B	399-5756-1-ND ***NEW!***	1.60	1.32	1.19	399-5756-2-ND ***NEW!***	2,000	448.00/M	T520B227M006ATE070
	330	±20	208	10	0.045	D	399-4055-1-ND	1.85	1.52	1.37	399-4055-2-ND	500	314.50	T520D337M006ATE045
	330	±20	208	10	0.04	D	399-4054-1-ND	2.10	1.73	1.56	399-4054-2-ND	500	357.00	T520D337M006ATE040
	330	±20	208	10	0.025	D	399-4053-1-ND	2.10	1.73	1.56	399-4053-2-ND	500	357.00	T520D337M006ATE025
	330	±20	208	10	0.018	D	399-5149-1-ND	2.35	1.93	1.74	399-5149-2-ND	500	399.50	T520D337M006ATE018
	330	±20	208	10	0.015	D	399-4052-1-ND	2.35	1.93	1.74	399-4052-2-ND	500	399.50	T520D337M006ATE015
	330	±20	208	10	0.04	V	399-4102-1-ND	3.69	3.06	2.93	399-4102-2-ND	1,000	1260.00	T520V337M006ATE040
	330	±20	208	10	0.025	V	399-4101-1-ND	3.90	3.23	3.09	399-4101-2-ND	1,000	1330.00	T520V337M006ATE025
	330	±20	208	10	0.018	V	399-5148-1-ND	3.60	3.20	3.10	399-5148-2-ND	1,000	1350.00	T520V337M006ATE018
	470	±20	296	10	0.035	Y	399-5626-1-ND	3.90	3.23	3.09	399-5626-2-ND	500	760.00	T520Y477M006ATE035
	470	±20	296	10	0.04	X	399-4118-1-ND	8.09	7.60	7.11	399-4118-2-ND	500	1715.00	T520X477M006ATE040
	470	±20	296	10	0.035	X	399-4117-1-ND	7.75	7.25	7.13	399-4117-2-ND	500	1719.00	T520X477M006ATE035
	470	±20	296	10	0.03	D	399-4661-1-ND	3.69	3.06	2.93	399-4661-2-ND	500	720.00	T520D477M006ATE030
	470	±20	296	10	0.025	D	399-4985-1-ND	3.90	3.23	3.09	399-4985-2-ND	500	760.00	T520D477M006ATE025
8	33	±20	26	8	0.025	B	399-5121-1-ND	1.70	1.40	1.26	399-5121-2-ND	2,000	476.00/M	T520B336M008ATE025
	33	±20	26	8	0.04	B	399-4019-1-ND	1.30	1.07	.97	399-4019-2-ND	2,000	364.00/M	T520B336M008ATE040
	33	±20	27	8	0.07	B	399-4020-1-ND	1.24	1.04	.90	399-4020-2-ND	2,000	319.00/M	T520B336M008ATE070
	33	±20	26	8	0.07	T	399-4813-1-ND	1.65	1.36	1.23	399-4813-2-ND	2,500	462.00/M	T520T336M008ATE070

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 20°C Max.	DF % @ 20°C 120Hz Max.	ESR Ω @ 20°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
8	33	±20	26	8	0.08	T	399-4787-1-ND	1.45	1.19	1.08	399-4787-2-ND	2,500	406.00/M	T520T336M008ATE080
	47	±20	38	8	0.035	B	399-4979-1-ND	1.40	1.15	1.04	399-4979-2-ND	2,000	392.00/M	T520B476M008ATE035
	47	±20	38	8	0.07	B	399-4980-1-ND	1.35	1.13	.98	399-4980-2-ND	2,000	348.00/M	T520B476M008ATE070
	150	±20	120	10	0.055	D	399-4038-1-ND	2.87	2.38	2.28	399-4038-2-ND	500	560.00	T520D157M008ATE055
	150	±20	120	10	0.04	D	399-4037-1-ND	3.08	2.55	2.44	399-4037-2-ND	500	600.00	T520D157M008ATE040
	150	±20	120	10	0.025	D	399-4036-1-ND	3.28	2.72	2.60	399-4036-2-ND	500	640.00	T520D157M008ATE025
10	10	±20	10	8	0.08	A	399-4788-1-ND	1.35	1.13	.98	399-4788-2-ND	2,000	348.00/M	T520A106M010ATE080
	15	±20	15	8	0.08	A	399-4789-1-ND	1.25	1.03	.93	399-4789-2-ND	2,000	350.00/M	T520A156M010ATE080
	33	±20	33	10	0.04	T	399-5406-1-ND	1.70	1.40	1.26	399-5406-2-ND	2,500	476.00/M	T520T336M010ATE040
	33	±20	33	8	0.08	T	399-4790-1-ND	1.50	1.23	1.11	399-4790-2-ND	2,500	420.00/M	T520T336M010ATE080
	33	±20	33	8	0.07	T	399-4814-1-ND	1.70	1.40	1.26	399-4814-2-ND	2,500	476.00/M	T520T336M010ATE070
	33	±20	33	8	0.07	B	399-4022-1-ND	1.24	1.04	.90	399-4022-2-ND	2,000	319.00/M	T520B336M010ATE070
	33	±20	33	8	0.04	B	399-4021-1-ND	1.30	1.07	.97	399-4021-2-ND	2,000	364.00/M	T520B336M010ATE040
	33	±20	33	10	0.025	B	399-5120-1-ND	1.70	1.40	1.26	399-5120-2-ND	2,000	476.00/M	T520B336M010ATE025
	47	±20	47	8	0.035	B	399-4981-1-ND	1.50	1.23	1.11	399-4981-2-ND	2,000	420.00/M	T520B476M010ATE035
	47	±20	47	8	0.07	B	399-4982-1-ND	1.30	1.07	.97	399-4982-2-ND	2,000	364.00/M	T520B476M010ATE070
	47	±20	47	10	0.1	C	399-5605-1-ND	1.75	1.44	1.30	399-5605-2-ND	500	297.50	T520C476M010ATE100
	68	±20	68	8	0.045	C	399-4662-1-ND	1.75	1.44	1.30	399-4662-2-ND	500	297.50	T520C686M010ATE045
	68	±20	68	10	0.06	V	399-4112-1-ND	3.08	2.55	2.44	399-4112-2-ND	1,000	1050.00	T520V686M010ATE060
	68	±20	68	8	0.055	U	399-5140-1-ND	2.87	2.38	2.28	399-5140-2-ND	1,000	980.00	T520U686M010ATE055
	68	±20	68	10	0.045	V	399-4111-1-ND	3.28	2.72	2.60	399-4111-2-ND	1,000	1120.00	T520V686M010ATE045
	68	±20	68	10	0.025	V	399-4745-1-ND	3.49	2.89	2.77	399-4745-2-ND	1,000	1190.00	T520V686M010ATE025
	68	±20	68	10	0.025	W	399-4815-1-ND	3.69	3.06	2.93	399-4815-2-ND	1,000	1260.00	T520W686M010ATE025
	68	±20	68	10	0.04	V	399-4816-1-ND	3.28	2.72	2.60	399-4816-2-ND	1,000	1120.00	T520V686M010ATE040
	68	±20	68	10	0.04	W	399-4746-1-ND	3.49	2.89	2.77	399-4746-2-ND	1,000	1190.00	T520W686M010ATE040
	68	±20	68	10	0.1	V	399-4983-1-ND	3.08	2.55	2.44	399-4983-2-ND	1,000	1050.00	T520V686M010ATE100
	68	±20	68	10	0.1	D	399-4984-1-ND	2.87	2.38	2.28	399-4984-2-ND	500	560.00	T520D686M010ATE100
	100	±20	100	10	0.08	D	399-4030-1-ND	1.85	1.52	1.37	399-4030-2-ND	500	314.50	T520D107M010ATE080
	100	±20	100	10	0.055	D	399-4029-1-ND	2.10	1.73	1.56	399-4029-2-ND	500	357.00	T520D107M010ATE055
	100	±20	100	10	0.05	V	399-4071-1-ND	3.49	2.89	2.77	399-4071-2-ND	1,000	1190.00	T520V107M010ATE050
	100	±20	100	10	0.045	V	399-4070-1-ND	3.49	2.89	2.77	399-4070-2-ND	1,000	1190.00	T520V107M010ATE045
	100	±20	100	10	0.04	W	399-5150-1-ND	3.53	2.93	2.80	399-5150-2-ND	1,000	1204.00	T520W107M010ATE040
	100	±20	100	10	0.025	V	399-4069-1-ND	3.69	3.06	2.93	399-4069-2-ND	1,000	1260.00	T520V107M010ATE025
	100	±20	100	10	0.018	V	399-5625-1-ND	3.90	3.23	3.09	399-5625-2-ND	1,000	1330.00	T520V107M010ATE018
	150	±20	150	10	0.055	D	399-4040-1-ND	1.85	1.52	1.37	399-4040-2-ND	500	314.50	T520D157M010ATE055
	150	±20	150	10	0.04	D	399-4039-1-ND	2.10	1.73	1.56	399-4039-2-ND	500	357.00	T520D157M010ATE040
	150	±20	150	10	0.055	C	399-5286-1-ND	1.95	1.60	1.45	399-5286-2-ND	500	331.50	T520C157M010ATE055
	150	±20	150	10	0.04	V	399-5292-1-ND	3.61	3.00	2.86	399-5292-2-ND	1,000	1232.00	T520V157M010ATE040
	150	±20	150	10	0.015	Y	399-5407-1-ND	4.14	3.68	3.57	399-5407-2-ND	500	834.00	T520Y157M010ATE015
	150	±20	150	10	0.018	V	399-5608-1-ND	4.02	3.34	3.19	399-5608-2-ND	1,000	1372.00	T520V157M010ATE018
	150	±20	150	10	0.025	V	399-5609-1-ND	3.81	3.17	3.03	399-5609-2-ND	1,000	1302.00	T520V157M010ATE025
	220	±20	220	10	0.04	D	399-4047-1-ND	2.15	1.77	1.60	399-4047-2-ND	500	365.50	T520D227M010ATE040
	220	±20	220	10	0.025	D	399-4046-1-ND	2.40	1.97	1.78	399-4046-2-ND	500	408.00	T520D227M010ATE025
	220	±20	220	10	0.018	D	399-4045-1-ND	2.40	1.97	1.78	399-4045-2-ND	500	408.00	T520D227M010ATE018
	330	±20	330	10	0.01	X	399-4727-1-ND	8.06	7.54	7.41	399-4727-2-ND	500	1787.50	T520X337M010ATE010
	330	±20	330	10	0.04	X	399-4116-1-ND	8.09	7.60	7.11	399-4116-2-ND	500	1715.00	T520X337M010ATE040
	330	±20	330	10	0.025	X	399-4115-1-ND	7.75	7.25	7.13	399-4115-2-ND	500	1719.00	T520X337M010ATE025
12.5	15	±20	18.8	8	0.080	T	399-5309-1-ND	1.65	1.36	1.23	399-5309-2-ND	2,500	462.00/M	T520T156M12RATE080
16	10	±20	16	8	0.1	B	399-5483-1-ND	1.50	1.23	1.11	399-5483-2-ND	2,000	420.00/M	T520B106M016ATE100
	22	±20	35	8	0.08	C	399-5119-1-ND	1.95	1.60	1.45	399-5119-2-ND	500	331.50	T520C226M016ATE080
	33	±20	53	10	0.045	V	399-4738-1-ND	3.90	3.23	3.09	399-4738-2-ND	1,000	1330.00	T520V336M016ATE045
	33	±20	53	10	0.045	W	399-4736-1-ND	3.90	3.23	3.09	399-4736-2-ND	1,000	1330.00	T520W336M016ATE045
	33	±20	53	10	0.06	V	399-4094-1-ND	3.69	3.06	2.93	399-4094-2-ND	1,000	1260.00	T520V336M016ATE060
	47	±20	75	10	0.045	W	399-4737-1-ND	3.90	3.23	3.09	399-4737-2-ND	1,000	1330.00	T520W476M016ATE045
	47	±20	75	10	0.045	V	399-4739-1-ND	3.90	3.23	3.09	399-4739-2-ND	1,000	1330.00	T520V476M016ATE045
	47	±20	75	10	0.035	D	399-3468-1-ND	2.87	2.38	2.28	399-3468-2-ND	500	560.00	T520D476M016ATE035
	47	±20	75	10	0.07	D	399-4056-1-ND	2.67	2.21	2.12	399-4056-2-ND	500	520.00	T520D476M016ATE070
	47	±20	76	10	0.07	V	399-4106-1-ND	3.69	3.06	2.93	399-4106-2-ND	1,000	1260.00	T520V476M016ATE070
	68	±20	109	10	0.05	D	399-5151-1-ND	2.67	2.21	2.12	399-5151-2-ND	500	520.00	T520D686M016ATE050
20	22	±20	44	10	0.04	V	399-4740-1-ND	3.90	3.23	3.09	399-4740-2-ND	1,000	1330.00	T520V226M020ATE040
25	15	±20	37.5	10	0.08	D	399-4032-1-ND	2.67	2.21	2.12	399-4032-2-ND	500	520.00	T520D156M025ATE080
	15	±20	38	10	0.06	D	399-4031-1-ND	2.87	2.38	2.28	399-4031-2-ND	500	560.00	T520D156M025ATE060
T521 Series, Polymer Tantalum — RoHS Compliant														
20	47	±20	94.0	10	0.055	D	399-5758-1-ND ***NEW!***	5.12	4.81	4.50	399-5758-2-ND ***NEW!***	500	1085.00	T521D476M020ATE055
	47	±20	94.0	10	0.090	V	399-5757-1-ND ***NEW!***	5.22	4.64	4.50	399-5757-2-ND ***NEW!***	1,000	1957.50	T521V476M020ATE090
25	22	±20	55.0	10	0.060	V	399-5805-1-ND ***NEW!***	4.95	4.65	4.35	399-5805-2-ND ***NEW!***	1,000	1950.00	T521V226M025ATE060
	33	±20	82.5	10	0.060	D	399-5806-1-ND ***NEW!***	5.12	4.81	4.50	399-5806-2-ND ***NEW!***	1,000	2015.00	T521D336M025ATE060
	33	±20	82.5	10	0.060	V	399-5759-1-ND ***NEW!***	4.95	4.65	4.35	399-5759-2-ND ***NEW!***	1,000	1950.00	T521V336M025ATE060
35	15	±20	52.5	10	0.125	V	399-5518-1-ND	5.22	4.64	4.50	399-5518-2-ND	1,000	1957.50	T521V156M035ATE125
T525 Series, KO-CAP Polymer Tantalum — RoHS Compliant														
2.5	330	±20	83	10	0.025	D	399-3261-1-ND	4.08	3.39	3.24	399-3261-2-ND	500	796.00	T525D337M2R5ATE025
	470	±20	118	10	0.025	D	399-3262-1-ND	4.08	3.39	3.24	399-3262-2-ND	500	796.00	T525D477M2R5ATE025
	680	±20	170	10	0.025	D	399-3263-1-ND	4.08	3.39	3.24	399-3263-2-ND	500	796.00	T525D687M2R5ATE025
3	100	±20	30	8	0.08	B	399-3264-1-ND	1.30	1.07	.97	399-3264-2-ND	2,000	364.00/M	T525B107M003ATE080
	150	±20	45	8	0.08	B	399-3265-1-ND	1.30	1.07	.97	399-3265-2-ND	2,000	364.00/M	T525B157M003ATE080
	330	±20	99	10	0.025	D	399-3266-1-ND	4.08	3.39	3.24	399-3266-2-ND	500	796.00	T525D337M003ATE025
	470	±20	141	10	0.025	D	399-3267-1-ND	4.08	3.39	3.24	399-3267-2-ND	500	796.00	T525D477M003ATE025
	680	±20	204	10	0.025	D	399-3268-1-ND	4.08	3.39	3.24	399-3268-2-ND	500	796.00	T525D687M003ATE025
4	68	±20	27.2	8	0.08	B	399-3269-1-ND	1.18	.97	.88	—	—	—	T525B686M004ATE080
	100	±20	40	8	0.08	B	399-3270-1-ND	1.30	1.07	.97	399-3270-2-ND	2,000	364.00/M	T525B107M004ATE080
	220	±20	88	10	0.025	D	399-3271-1-ND	3.71	3.08	2.94	—	—	—	T525D227M004ATE025
	330	±20	132	10	0.025	D	399-3272-1-ND	4.08	3.39	3.24	399-3272-2-ND	500	796.00	T525D337M004ATE025
	470	±20	188	10	0.04	D	399-3151-1-ND	4.08	3.39	3.24	399-3151-2-ND	500	796.00	T525D477M004ATE040
	470	±20	188	10	0.025	D	399-3273-1-ND	3.76	3.35	3.24	399-3273-2-ND	500	757.50	T525D477M004ATE025

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 20°C Max.	DF % @ 20°C 120Hz Max.	ESR Ω @ 20°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	25		Qty.	Pricing	
6.3	33	±20	20.8	8	0.08	B	399-3274-1-ND	1.30	1.07	.97	399-3274-2-ND	2,000	364.00/M	T525B336M006ATE080
	47	±20	29.6	8	0.08	B	399-3275-1-ND	1.30	1.07	.97	399-3275-2-ND	2,000	364.00/M	T525B476M006ATE080
	68	±20	42.8	8	0.08	B	399-3276-1-ND	1.30	1.07	.97	399-3276-2-ND	2,000	364.00/M	T525B686M006ATE080
	150	±20	95	10	0.025	D	399-3277-1-ND	3.76	3.35	3.24	399-3277-2-ND	500	757.50	T525D157M006ATE025
	220	±20	139	10	0.025	D	399-3278-1-ND	3.76	3.35	3.24	399-3278-2-ND	500	757.50	T525D227M006ATE025
	330	±20	208	10	0.04	D	399-3152-1-ND	4.08	3.39	3.24	399-3152-2-ND	500	796.00	T525D337M006ATE040
	330	±20	208	10	0.025	D	399-3279-1-ND	3.76	3.35	3.24	399-3279-2-ND	500	757.50	T525D337M006ATE025
	470	±20	296.1	8	0.035	Y	399-5751-1-ND ***NEW!***	4.14	3.68	3.57	399-5751-2-ND ***NEW!***	500	833.75	T525Y477M006ATE035
8	33	±20	26	8	0.08	T	399-4792-1-ND	1.70	1.40	1.26	399-4792-2-ND	2,500	476.00/M	T525T336M008ATE080
10	33	±20	33	8	0.08	T	399-4793-1-ND	1.75	1.44	1.30	399-4793-2-ND	2,500	490.00/M	T525T336M010ATE080
	33	±20	33	8	0.08	B	399-3280-1-ND	1.30	1.07	.97	399-3280-2-ND	2,000	364.00/M	T525B336M010ATE080
	100	±20	100	10	0.055	D	399-3153-1-ND	4.08	3.39	3.24	399-3153-2-ND	500	796.00	T525D107M010ATE055
	100	±20	100	10	0.025	D	399-3281-1-ND	3.76	3.35	3.24	399-3281-2-ND	500	757.50	T525D107M010ATE025
	150	±20	150	10	0.055	D	399-3154-1-ND	4.08	3.39	3.24	399-3154-2-ND	500	796.00	T525D157M010ATE055
	150	±20	150	10	0.025	D	399-3282-1-ND	3.76	3.35	3.24	399-3282-2-ND	500	757.50	T525D157M010ATE025
	220	±20	220	10	0.025	D	399-3283-1-ND	3.76	3.35	3.24	399-3283-2-ND	500	757.50	T525D227M010ATE025
16	47	±20	75.2	10	0.065	D	399-3155-1-ND	4.08	3.39	3.24	399-3155-2-ND	500	796.00	T525D476M016ATE065
	47	±20	76	10	0.035	D	399-3284-1-ND	3.76	3.35	3.24	399-3284-2-ND	500	757.50	T525D476M016ATE035
T528 Series, Face Down Termination — RoHS Compliant														
2.5	330	±20	83	10	0.008	Z	399-5142-1-ND	5.22	4.64	4.50	399-5142-2-ND	1,000	1958.00	T528Z337M2R5ATE008
	470	±20	118	10	0.008	Z	399-5143-1-ND	4.95	4.65	4.35	399-5143-2-ND	1,000	1950.00	T528Z477M2R5ATE008
3	100	±20	30	10	0.15	I	399-5236-1-ND	3.34	2.97	2.88	—	—	—	T528I107M003ATE150
	330	±20	99	10	0.15	M	399-5250-1-ND	3.60	3.21	3.11	—	—	—	T528M337M003ATE150
	330	±20	99	10	0.2	M	399-5251-1-ND	3.44	3.06	2.97	—	—	—	T528M337M003ATE200
4	68	±20	27.2	10	0.2	I	399-5243-1-ND	3.62	3.00	2.87	—	—	—	T528I686M004ATE200
	220	±20	88	10	0.15	M	399-5248-1-ND	3.60	3.21	3.11	—	—	—	T528M227M004ATE150
	220	±20	88	10	0.009	Z	399-5254-1-ND	5.22	4.64	4.50	399-5254-2-ND	1,000	1958.00	T528Z227M004ATE009
	220	±20	88	10	0.012	Z	399-5255-1-ND	5.04	4.48	4.34	399-5255-2-ND	1,000	1890.00	T528Z227M004ATE012
	330	±20	132	10	0.009	Z	399-5258-1-ND	4.95	4.65	4.35	399-5258-2-ND	1,000	1950.00	T528Z337M004ATE009
	330	±20	132	10	0.012	Z	399-5259-1-ND	5.22	4.64	4.50	399-5259-2-ND	1,000	1958.00	T528Z337M004ATE012
6.3	47	±20	29.6	10	0.15	I	399-5240-1-ND	3.34	2.97	2.88	—	—	—	T528I476M006ATE150
	47	±20	33	10	0.2	I	399-5241-1-ND	3.62	3.00	2.87	—	—	—	T528I476M006ATE200
	150	±20	94.5	10	0.2	K	399-5611-1-ND	4.19	3.73	3.62	—	—	—	T528K157M006ATE200
	150	±20	94.5	10	0.2	M	399-5247-1-ND	3.60	3.21	3.11	—	—	—	T528M157M006ATE200
	150	±20	94.5	10	0.009	Z	399-5252-1-ND	5.22	4.64	4.50	399-5252-2-ND	1,000	1958.00	T528Z157M006ATE009
	150	±20	94.5	10	0.012	Z	399-5253-1-ND	5.04	4.48	4.34	399-5253-2-ND	1,000	1890.00	T528Z157M006ATE012
	220	±20	138.6	10	0.009	Z	399-5256-1-ND	4.95	4.65	4.35	399-5256-2-ND	1,000	1950.00	T528Z227M006ATE009
	220	±20	138.6	10	0.012	Z	399-5257-1-ND	5.22	4.64	4.50	399-5257-2-ND	1,000	1958.00	T528Z227M006ATE012
10	33	±20	33	10	0.15	I	399-5238-1-ND	4.02	3.34	3.19	399-5238-2-ND	3,000	1323.00/M	T528I336M010ATE150
	33	±20	33	10	0.2	I	399-5239-1-ND	4.02	3.34	3.19	399-5239-2-ND	3,000	1323.00/M	T528I336M010ATE200
T530 Series, KO-MAT Polymer Tantalum														
2.5	680	±20	170	8	0.01	D	399-3332-1-ND	6.16	5.79	5.42	—	—	—	T530D687M2R5ASE010
10	150	±20	150	8	0.006	D	399-3396-1-ND	6.31	5.94	5.55	—	—	—	T530D157M010ASE006
T530 Series, KO-MAT Polymer Tantalum — RoHS Compliant														
2.5	470	±20	118	8	0.006	D	399-4127-1-ND	6.93	6.51	6.09	399-4127-2-ND	500	1470.00	T530D447M2R5ATE006
	560	±20	140	8	0.005	D	399-4128-1-ND	7.26	6.82	6.38	399-4128-2-ND	500	1540.00	T530D567M2R5ATE005
	680	±20	170	8	0.01	D	399-4130-1-ND	6.77	6.36	5.95	399-4130-2-ND	500	1435.00	T530D687M2R5ATE010
	680	±20	170	8	0.006	X	399-4987-1-ND	7.76	7.29	6.82	399-4987-2-ND	500	1645.00	T530X687M2R5ATE006
	680	±20	170	8	0.006	Y	399-3471-1-ND	7.26	6.82	6.38	399-3471-2-ND	500	1540.00	T530Y687M2R5ATE006
	1000	±20	250	8	0.006	X	399-4132-1-ND	8.09	7.60	7.11	399-4132-2-ND	500	1715.00	T530X108M2R5ATE006
	1000	±20	250	8	0.005	Y	399-4749-1-ND	7.59	7.13	6.67	399-4749-2-ND	500	1610.00	T530Y108M2R5ATE005
	1500	±20	375	8	0.005	X	399-5274-1-ND	8.37	7.83	7.70	399-5274-2-ND	500	1856.50	T530X158M2R5ATE005
3	680	±20	204	8	0.01	D	399-4129-1-ND	6.77	6.36	5.95	399-4129-2-ND	500	1435.00	T530D687M003ATE010
	1000	±20	300	8	0.01	X	399-4131-1-ND	7.76	7.29	6.82	399-4131-2-ND	500	1645.00	T530X108M003ATE010
	1500	±20	450	8	0.008	X	399-4133-1-ND	8.06	7.54	7.41	399-4133-2-ND	500	1787.50	T530X158M003ATE008
4	330	±20	132	8	0.006	D	399-4124-1-ND	6.93	6.51	6.09	399-4124-2-ND	500	1470.00	T530D337M004ATE006
	470	±20	188	8	0.006	D	399-4986-1-ND	7.10	6.67	6.24	399-4986-2-ND	500	1505.00	T530D477M004ATE006
	470	±20	188	8	0.01	D	399-4126-1-ND	6.77	6.36	5.95	399-4126-2-ND	500	1435.00	T530D477M004ATE010
	680	±20	272	8	0.004	X	399-4817-1-ND	8.22	7.69	7.56	399-4817-2-ND	500	1822.00	T530X687M004ATE004
	680	±20	272	8	0.01	X	399-4139-1-ND	7.76	7.29	6.82	399-4139-2-ND	500	1645.00	T530X687M004ATE010
	680	±20	272	8	0.006	X	399-4138-1-ND	8.09	7.60	7.11	399-4138-2-ND	500	1715.00	T530X687M004ATE006
	680	±20	272	8	0.005	Y	399-4750-1-ND	7.59	7.13	6.67	399-4750-2-ND	500	1610.00	T530Y687M004ATE005
6.3	220	±20	139	8	0.005	D	399-5627-1-ND	7.26	6.82	6.38	399-5627-2-ND	500	1540.00	T530D227M006ATE005
	220	±20	139	8	0.006	D	399-4122-1-ND	6.93	6.51	6.09	399-4122-2-ND	500	1470.00	T530D227M006ATE006
	330	±20	208	8	0.01	D	399-4125-1-ND	6.60	6.20	5.80	399-4125-2-ND	500	1400.00	T530D337M006ATE010
	330	±20	208	8	0.006	Y	399-3472-1-ND	7.26	6.82	6.38	399-3472-2-ND	500	1540.00	T530Y337M006ATE006
	330	±20	208	8	0.006	D	399-4751-1-ND	6.93	6.51	6.09	399-4751-2-ND	500	1470.00	T530D337M006ATE006
	470	±20	296	8	0.005	Y	399-4752-1-ND	7.59	7.13	6.67	399-4752-2-ND	500	1610.00	T530Y477M006ATE005
	470	±20	296	8	0.01	X	399-4137-1-ND	7.76	7.29	6.82	399-4137-2-ND	500	1645.00	T530X477M006ATE010
	470	±20	297	8	0.006	X	399-4136-1-ND	8.09	7.60	7.11	399-4136-2-ND	500	1715.00	T530X477M006ATE006
	680	±20	428	8	0.018	X	399-5408-1-ND	7.76	7.29	6.82	399-5408-2-ND	500	1645.00	T530X687M006ATE018
10	150	±20	150	8	0.006	D	399-4121-1-ND	6.93	6.51	6.09	399-4121-2-ND	500	1470.00	T530D157M010ATE006
	150	±20	150	8	0.01	D	399-4791-1-ND	6.60	6.20	5.80	399-4791-2-ND	500	1400.00	T530D157M010ATE010
	220	±20	220	8	0.01	D	399-4123-1-ND	6.60	6.20	5.80	399-4123-2-ND	500	1400.00	T530D227M010ATE010
	220	±20	220	8	0.006	D	399-4747-1-ND	6.93	6.51	6.09	399-4747-2-ND	500	1470.00	T530D227M010ATE006
	220	±20	220	8	0.006	Y	399-4748-1-ND	7.26	6.82	6.38	399-4748-2-ND	500	1540.00	T530Y227M010ATE006
	330	±20	330	8	0.01	X	399-4135-1-ND	7.76	7.29	6.82	399-4135-2-ND	500	1645.00	T530X337M010ATE010
	330	±20	330	8	0.005	X	399-5628-1-ND	7.91	7.40	7.27	399-5628-2-ND	500	1753.13	T530X337M010ATE005
	330	±20	330	8	0.006	X	399-4134-1-ND	8.09	7.60	7.11	399-4134-2-ND	500	1715.00	T530X337M010ATE006
16	150	±20	240	8	0.015	X	399-4663-1-ND	8.68	8.12	7.98	399-4663-2-ND	500	1925.00	T530X157M016ATE015
	150	±20	240	8	0.025	X	399-4664-1-ND	8.37	7.83	7.70	399-4664-2-ND	500	1856.50	T530X157M016ATE025
	150	±20	240	8	0.04	X	399-4665-1-ND	8.06	7.54	7.41	399-4665-2-ND	500	1787.50	T530X157M016ATE040

Kits – *RoHS Compliant*

◊ **399-5260-ND** (Kemet No. TAN ENG KIT 04) 10 each of values denoted (100 total pieces)	**$54.00**
§ **399-5278-ND** (Kemet No. TAN ENG KIT 09) 10 each of values denoted (100 total pieces)	**$54.00**
399-5270-ND (Kemet No. TAN ENG KIT 08) See Digi-Key website for values included (160 total pieces)	**$54.00**

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Tantalum and Polymer Capacitors

B45190E, B45192E, B45194E and B45196H Standard Series:
Construction: • Polar tantalum capacitors with solid electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current and dissipation factor • Low self-inductance • Suitable for use without series resistor
Specifications: • Operating Temperature: -55 ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1 55/125/56

B45196P Performance 150°C High Reliability Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • Outstanding reliability • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Very low failure rate • Operating temperature up to 150°C
Specifications: • Operating Temperature: -55°C ~ 150°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45197A Speed Power Low ESR Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Low ESR
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

TOPcap B760XX Polymer Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low self-inductance • High resistance to shock and vibration • No failure-mode ignition in high-surge current applications
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45396R Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Conventional TA-MnO_2 technology • Three parallel low-ESR tantalum capacitors in one case ("multiple anode") • Flame retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self inductance • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B763XX Polymer Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Three parallel low ESR tantalum capacitors in one case ("multiple anode") • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low dissipation factor • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

Case Size	Dimensions (mm) L	W	H	L2 Typical
A	3.2	1.6	1.6	3.0
B	3.5	2.8	1.9	3.3
C	6.0	3.2	2.5	5.8
D	7.3	4.3	2.8	7.1
E	7.3	4.3	4.1	7.1
R	3.5	2.8	1.2	3.3
V	7.3	4.3	2.0	7.1
W	6.0	3.2	1.5	3.3
X	7.3	4.3	1.5	7.1

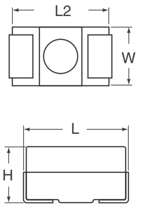

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							1	10	25		Qty.	Pricing	
						High Capacitance - Low Profile Tantalum Capacitors							
4.0	10	20	A	0.5	4500	495-2174-1-ND	.42	3.32	7.00	495-2174-2-ND	2,000	72.00/M	B45196H0106M109
4.0	47	20	B	1.9	2300	495-2175-1-ND	.65	5.47	11.22	495-2175-2-ND	2,000	131.00/M	B45196H0476M209V18
4.0	68	20	B	2.7	1800	495-2176-1-ND	.57	4.79	9.83	495-2176-2-ND	2,000	114.40/M	B45196H0686M209
6.3	4.7	10	A	0.5	5500	495-2177-1-ND	.53	4.15	8.75	495-2177-2-ND	2,000	90.00/M	B45196H1475K109
6.3	6.8	10	A	0.5	4500	495-2178-1-ND	.44	3.49	7.35	495-2178-2-ND	2,000	75.60/M	B45196H1685K109
6.3	6.8	20	A	0.5	4500	495-2179-1-ND	.44	3.49	7.35	495-2179-2-ND	2,000	75.60/M	B45196H1685M109
6.3	10	10	A	0.6	4000	495-2180-1-ND	.44	3.49	7.35	495-2180-2-ND	2,000	75.60/M	B45196H1106K109
6.3	10	20	A	0.6	4000	495-2181-1-ND	.43	3.40	7.18	495-2181-2-ND	2,000	73.80/M	B45196H1106M109
6.3	22	10	A	1.4	3000	495-2182-1-ND	.58	4.57	9.63	495-2182-2-ND	2,000	99.00/M	B45196H1226K109
6.3	22	20	A	1.4	3000	495-2183-1-ND	.57	4.48	9.45	495-2183-2-ND	2,000	97.20/M	B45196H1226M109
6.3	22	10	B	1.4	2500	495-2184-1-ND	.62	4.90	10.33	495-2184-2-ND	2,000	106.00/M	B45196H1226K209
6.3	22	20	B	1.4	2500	495-2185-1-ND	.62	4.90	10.33	495-2185-2-ND	2,000	106.00/M	B45196H1226M209
6.3	33	10	B	2.1	2200	495-2186-1-ND	.65	5.47	11.22	495-2186-2-ND	2,000	131.00/M	B45196H1336K209
6.3	33	20	R	2.1	2500	495-2187-1-ND	1.55	12.70	28.66	495-2187-2-ND	2,500	434.00/M	B45190E1336M209
6.3	33	20	B	2.1	2000	495-2188-1-ND	.65	5.47	11.22	495-2188-2-ND	2,000	131.00/M	B45196H1336M209
6.3	47	10	B	3.0	2000	495-2189-1-ND	.86	7.16	14.70	495-2189-2-ND	2,000	171.00/M	B45196H1476K209
6.3	47	20	B	3.0	2000	495-2190-1-ND	.86	7.16	14.70	495-2190-2-ND	2,000	171.00/M	B45196H1476M209
6.3	100	20	B	6.3	1600	495-2191-1-ND	1.04	8.70	18.73	495-2191-2-ND	2,000	268.00/M	B45196H1107M209
6.3	100	20	C	6.3	1200	495-2192-1-ND	.86	7.26	15.06	495-2192-2-ND	750	174.75	B45196H1107M309
6.3	100	10	D	6.3	800	495-2193-1-ND	.94	7.95	16.50	495-2193-2-ND	750	191.25	B45196H1107K409
6.3	220	20	D	14	800	495-2194-1-ND	1.13	9.41	20.27	495-2194-2-ND	750	247.50	B45196H1227M409
6.3	220	20	V	14	700	495-2195-1-ND	2.67	22.10	52.81	495-2195-2-ND	1,000	910.00	B45194E1227M409
10	3.3	20	A	0.5	5500	495-2196-1-ND	.44	3.49	7.35	495-2196-2-ND	2,000	75.60/M	B45196H2335M109
10	4.7	10	A	0.5	4500	495-2197-1-ND	.53	4.15	8.75	495-2197-2-ND	2,000	90.00/M	B45196H2475K109
10	4.7	20	A	0.5	4500	495-2198-1-ND	.53	4.15	8.75	495-2198-2-ND	2,000	90.00/M	B45196H2475M109
10	6.8	10	A	0.7	4000	495-2199-1-ND	.44	3.49	7.35	495-2199-2-ND	2,000	75.60/M	B45196H2685K109
10	10	10	A	1.0	3800	495-2200-1-ND	.48	3.82	8.05	495-2200-2-ND	2,000	82.80/M	B45196H2106K109
10	10	20	A	1.0	3800	495-2201-1-ND	.47	3.74	7.88	495-2201-2-ND	2,000	81.00/M	B45196H2106M109
10	10	10	B	1.0	3000	495-2202-1-ND	.59	4.67	9.85	495-2202-2-ND	2,000	101.00/M	B45196H2106K209
10	10	20	B	1.0	3000	495-2203-1-ND	.59	4.67	9.85	495-2203-2-ND	2,000	101.00/M	B45196H2106M209
10	15	20	A	1.5	3200	495-2204-1-ND	.51	4.07	8.58	495-2204-2-ND	2,000	88.20/M	B45196H2156M109
10	15	10	B	1.5	2500	495-2205-1-ND	.62	4.90	10.33	495-2205-2-ND	2,000	106.00/M	B45196H2156K209
10	15	20	B	1.5	2500	495-2206-1-ND	.62	4.90	10.33	495-2206-2-ND	2,000	106.00/M	B45196H2156M209
10	22	20	A	2.2	3200	495-2207-1-ND	.76	6.37	13.06	495-2207-2-ND	2,000	152.00/M	B45196H2226M109
10	22	10	B	2.2	2300	495-2208-1-ND	.65	5.47	11.22	495-2208-2-ND	2,000	131.00/M	B45196H2226K209
10	22	20	B	2.2	2300	495-2209-1-ND	.65	5.47	11.22	495-2209-2-ND	2,000	131.00/M	B45196H2226M209
10	22	10	C	2.2	1600	495-2210-1-ND	.68	5.70	11.69	495-2210-2-ND	750	114.75	B45196H2226K309
10	22	20	C	2.2	1600	495-2211-1-ND	.68	5.70	11.69	495-2211-2-ND	750	114.75	B45196H2226M309
10	33	20	B	3.3	2000	495-2212-1-ND	1.12	8.87	18.71	495-2212-2-ND	2,000	192.42/M	B45196H2336M209
10	33	10	W	5.3	1400	495-2213-1-ND	2.05	17.00	40.63	495-2213-2-ND	4,750	650.00/M	B45192E2336K306
10	33	10	C	3.0	1500	495-2214-1-ND	.72	6.03	12.38	495-2214-2-ND	750	121.50	B45196H2336K309
10	33	20	C	3.0	1500	495-2215-1-ND	.72	6.03	12.38	495-2215-2-ND	750	121.50	B45196H2336M309
10	47	10	B	4.7	1600	495-2216-1-ND	1.48	12.10	27.29	495-2216-2-ND	2,000	413.00/M	B45196H2476K209
10	47	10	C	4.7	1400	495-2217-1-ND	.83	6.96	14.29	495-2217-2-ND	750	140.27	B45196H2476K309
10	47	20	C	4.7	1400	495-2218-1-ND	.83	6.96	14.29	495-2218-2-ND	750	140.27	B45196H2476M309
10	68	10	D	6.8	800	495-2219-1-ND	.94	7.95	16.50	495-2219-2-ND	750	191.25	B45196H2686K409
10	100	10	C	10	1200	495-2220-1-ND	2.00	16.40	37.00	495-2220-2-ND	750	480.00	B45196H2107K309
10	100	20	C	10	1200	495-2221-1-ND	1.95	15.99	36.08	495-2221-2-ND	750	468.00	B45196H2107M309
10	100	20	X	10	800	495-2222-1-ND	1.94	15.87	35.80	495-2222-2-ND	1,250	639.00/M	B45192E2107M409
10	100	10	D	10	800	495-2223-1-ND	1.25	10.47	21.48	495-2223-2-ND	750	199.16	B45196H2107K409
10	100	20	D	10	800	495-2224-1-ND	.98	8.28	17.18	495-2224-2-ND	750	199.50	B45196H2107M409
10	150	20	D	15	800	495-2225-1-ND	1.13	9.41	20.27	495-2225-2-ND	750	247.50	B45196H2157M409
10	220	20	D	22	800	495-2226-1-ND	1.39	11.37	25.64	495-2226-2-ND	750	333.00	B45196H2227M409
10	220	20	E	22	600	495-2227-1-ND	2.22	18.18	41.01	—	—	—	B45196H2227M509
16	2.2	10	A	0.5	6500	495-2228-1-ND	.53	4.15	8.75	495-2228-2-ND	2,000	90.00/M	B45196H3225K109
16	2.2	20	A	0.5	6500	495-2229-1-ND	.53	4.15	8.75	495-2229-2-ND	2,000	90.00/M	B45196H3225M109
16	3.3	10	A	0.5	5000	495-2230-1-ND	.53	4.15	8.75	495-2230-2-ND	2,000	90.00/M	B45196H3335K109
16	3.3	20	A	0.5	5000	495-2231-1-ND	.53	4.15	8.75	495-2231-2-ND	2,000	90.00/M	B45196H3335M109
16	4.7	10	A	0.8	4000	495-2232-1-ND	.53	4.15	8.75	495-2232-2-ND	2,000	90.00/M	B45196H3475K109
16	4.7	20	A	0.8	4000	495-2233-1-ND	.53	4.15	8.75	495-2233-2-ND	2,000	90.00/M	B45196H3475M109
16	6.8	10	A	1.1	3800	495-2234-1-ND	.46	3.63	7.65	495-2234-2-ND	2,000	78.66/M	B45196H3685K109
16	6.8	20	B	1.1	3000	495-2235-1-ND	.59	4.67	9.85	495-2235-2-ND	2,000	101.00/M	B45196H3685M209
16	10	10	A	1.6	3000	495-2236-1-ND	.57	4.48	9.45	495-2236-2-ND	2,000	97.00/M	B45196H3106K109V17
16	10	20	A	1.6	3000	495-2237-1-ND	.43	3.40	7.18	495-2237-2-ND	2,000	97.20/M	B45196H3106M109
16	10	10	R	1.6	1500	495-2238-1-ND	2.40	20.10	41.25	495-2238-2-ND	2,500	480.00/M	B45190E3106K209
16	10	10	B	1.6	2500	495-2239-1-ND	.62	4.90	10.33	495-2239-2-ND	2,000	106.00/M	B45196H3106K209
16	10	20	B	1.6	2500	495-2240-1-ND	.62	4.90	10.33	495-2240-2-ND	2,000	106.00/M	B45196H3106M209
16	15	20	B	2.4	2300	495-2241-1-ND	.65	5.47	11.22	495-2241-2-ND	2,000	131.00/M	B45196H3156M209

(Continued)

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							1	10	25		Qty.	Pricing	
16	22	10	B	3.5	2600	495-2242-1-ND	.86	7.16	14.70	495-2242-2-ND	2,000	171.00/M	B45196H3226K209
16	22	20	B	3.5	2600	495-2243-1-ND	.86	7.16	14.70	495-2243-2-ND	2,000	171.00/M	B45196H3226M209
16	22	10	C	3.5	1500	495-2244-1-ND	.72	6.03	12.38	495-2244-2-ND	750	121.50	B45196H3226K309
16	22	20	C	3.5	1500	495-2245-1-ND	.72	6.03	12.38	495-2245-2-ND	750	121.50	B45196H3226M309
16	33	20	C	5.3	1400	495-2246-1-ND	.83	6.96	14.29	495-2246-2-ND	750	140.27	B45196H3336M309
16	47	10	C	7.5	1400	495-2247-1-ND	.86	7.26	15.06	495-2247-2-ND	750	174.75	B45196H3476K309
16	47	20	C	7.5	1400	495-2248-1-ND	.86	7.26	15.06	495-2248-2-ND	750	174.75	B45196H3476M309
16	47	20	V	7.5	700	495-2249-1-ND	1.30	10.62	23.96	495-2249-2-ND	1,000	499.50	B45194E3476M409
16	47	10	D	7.5	800	495-2250-1-ND	1.00	8.48	17.60	495-2250-2-ND	750	204.00	B45196H3476K409
16	47	20	D	7.5	800	495-2251-1-ND	.88	7.42	15.40	495-2251-2-ND	750	178.50	B45196H3476M409
16	68	10	X	10.9	800	495-2252-1-ND	1.99	16.32	36.82	495-2252-2-ND	1,250	597.00/M	B45192E3686K409
16	68	10	D	11	800	495-2253-1-ND	.98	8.28	17.18	495-2253-2-ND	750	199.50	B45196H3686K409
16	68	20	D	11	800	495-2254-1-ND	.98	8.28	17.18	495-2254-2-ND	750	199.50	B45196H3686M409
16	100	10	D	16	800	495-2255-1-ND	1.13	9.41	20.27	495-2255-2-ND	750	247.50	B45196H3107K409
16	100	20	D	16	800	495-2256-1-ND	1.13	9.41	20.27	495-2256-2-ND	750	247.50	B45196H3107M409
20	2.2	20	A	0.5	6000	495-2257-1-ND	.53	4.15	8.75	495-2257-2-ND	2,000	90.00/M	B45196H4225M109
20	4.7	20	B	0.9	3000	495-2258-1-ND	.59	4.67	9.85	495-2258-2-ND	2,000	101.00/M	B45196H4475M209
20	10	20	B	2.0	2300	495-2259-1-ND	.86	6.77	14.28	495-2259-2-ND	2,000	146.88/M	B45196H4106M209
20	10	10	C	2.0	1600	495-2260-1-ND	.68	5.70	11.69	495-2260-2-ND	750	114.75	B45196H4106K309
20	10	20	C	2.0	1600	495-2261-1-ND	.68	5.70	11.69	495-2261-2-ND	750	114.75	B45196H4106M309
20	15	10	C	3.0	1500	495-2262-1-ND	.70	5.86	12.03	495-2262-2-ND	750	118.13	B45196H4156K309
20	22	20	C	4.4	1400	495-2263-1-ND	.83	6.96	14.29	495-2263-2-ND	750	140.27	B45196H4226M309
20	33	10	D	6.6	800	495-2264-1-ND	.94	7.95	16.50	495-2264-2-ND	750	191.25	B45196H4336K409
20	33	20	D	6.6	800	495-2265-1-ND	.94	7.95	16.50	495-2265-2-ND	750	191.25	B45196H4336M409
20	47	10	D	9.4	800	495-2266-1-ND	.98	8.28	17.18	495-2266-2-ND	750	199.50	B45196H4476K409
20	47	20	D	9.4	800	495-2267-1-ND	.98	8.28	17.18	495-2267-2-ND	750	199.50	B45196H4476M409
25	1.0	10	A	0.5	8000	495-2268-1-ND	.55	4.36	9.19	495-2268-2-ND	2,000	95.00/M	B45196H5105K109
25	1.0	20	A	0.5	8000	495-2269-1-ND	.44	3.49	7.35	495-2269-2-ND	2,000	75.60/M	B45196H5105M109
25	1.5	20	A	0.5	7000	495-2270-1-ND	.46	3.63	7.65	495-2270-2-ND	2,000	78.66/M	B45196H5155M109
25	2.2	20	A	0.6	7000	495-2271-1-ND	.53	4.15	8.75	495-2271-2-ND	2,000	90.00/M	B45196H5225M109
25	4.7	10	B	1.2	3200	495-2272-1-ND	.86	7.16	14.70	495-2272-2-ND	2,000	171.00/M	B45196H5475K209
25	10	20	C	2.5	1600	495-2273-1-ND	.68	5.71	11.72	495-2273-2-ND	750	115.02	B45196H5106M309
25	22	10	D	5.5	800	495-2274-1-ND	.94	7.95	16.50	495-2274-2-ND	750	191.25	B45196H5226K409
25	22	20	D	5.5	800	495-2275-1-ND	.94	7.95	16.50	495-2275-2-ND	750	191.25	B45196H5226M409
25	33	20	D	8.3	800	495-2276-1-ND	1.39	11.37	25.64	495-2276-2-ND	2,800	388.00/M	B45196H5336M406
35	0.47	20	A	0.5	1100	495-2277-1-ND	.44	3.49	7.35	495-2277-2-ND	2,000	75.60/M	B45196H6474M109
35	0.68	10	A	0.5	8000	495-2278-1-ND	.58	4.57	9.63	495-2278-2-ND	2,000	99.00/M	B45196H6684K109
35	1.0	20	A	0.5	7000	495-2279-1-ND	.47	3.74	7.88	495-2279-2-ND	2,000	81.00/M	B45196H6105M109
35	2.2	10	B	0.8	4000	495-2280-1-ND	.65	5.47	11.22	495-2280-2-ND	2,000	131.00/M	B45196H6225K209
35	2.2	20	B	0.8	4000	495-2281-1-ND	.65	5.47	11.22	495-2281-2-ND	2,000	131.00/M	B45196H6225M209
35	4.7	10	C	1.6	2000	495-2282-1-ND	.72	6.03	12.38	495-2282-2-ND	750	121.50	B45196H6475K309
35	4.7	20	C	1.6	2000	495-2283-1-ND	.72	6.03	12.38	495-2283-2-ND	750	121.50	B45196H6475M309
35	10	10	V	3.5	1000	495-2284-1-ND	3.25	26.65	60.13	495-2284-2-ND	1,000	975.00	B45194E6106K409
35	10	20	C	3.5	1600	495-2285-1-ND	.86	7.26	15.06	495-2285-2-ND	750	174.75	B45196H6106M309
35	15	20	D	5.3	800	495-2286-1-ND	1.00	8.48	17.60	495-2286-2-ND	750	204.00	B45196H6156M409
35	47	20	E	16	900	495-2287-1-ND	2.15	17.84	42.63	495-2287-2-ND	400	377.60	B45196H6476M509
50	10	20	E	5.0	800	495-2288-1-ND	2.27	18.85	45.05	495-2288-2-ND	400	399.20	B45196H7106M509
Performance - High Reliability Tantalum Capacitors													
6.3	47	10	C	3.0	800	495-1491-1-ND	1.26	10.36	23.37	495-1491-2-ND	750	303.00	B45196P1476K309
10	4.7	10	A	0.5	2900	495-1492-1-ND	.71	5.97	12.25	495-1492-2-ND	2,000	143.00/M	B45196P2475K109
10	47	10	D	4.7	600	495-1493-1-ND	1.80	14.72	33.22	495-1493-2-ND	750	431.25	B45196P2476K409
16	22	10	C	3.6	1000	495-1494-1-ND	1.26	10.36	23.37	495-1494-2-ND	750	303.00	B45196P3226K309
16	47	10	D	7.5	600	495-1495-1-ND	1.80	14.72	33.22	495-1495-2-ND	750	431.25	B45196P3476K409
5	0.33	10	A	0.5	11000	495-1497-1-ND	.71	5.97	12.25	495-1497-2-ND	2,000	143.00/M	B45196P6334K109
35	1.0	10	B	0.5	4400	495-1498-1-ND	.62	5.16	10.59	495-1498-2-ND	2,000	123.00/M	B45196P6105K209
35	2.2	10	C	0.8	2200	495-1499-1-ND	.84	7.10	14.74	495-1499-2-ND	750	171.00	B45196P6225K309
35	6.8	10	D	2.4	900	495-1500-1-ND	1.06	8.84	19.05	495-1500-2-ND	750	431.25	B45196P6685K409
35	10	10	D	3.5	700	495-1501-1-ND	1.80	14.72	33.22	495-1501-2-ND	750	431.25	B45196P6106K409
SpeedPower - Low ESR Tantalum Capacitors													
4.0	680	10	E	27.0	150	495-1502-1-ND	2.30	18.86	42.55	495-1502-2-ND	400	368.00	B45197A0687K509
4.0	1000	10	E	40.0	150	495-1503-1-ND	5.78	54.25	126.88	495-1503-2-ND	400	1050.00	B45197A0108K509
6.3	22	10	C	1.4	375	495-1504-1-ND	.99	8.33	17.09	495-1504-2-ND	750	152.55	B45197A1226K309
6.3	33	10	C	2.1	350	495-1505-1-ND	.99	8.33	17.09	495-1505-2-ND	750	152.55	B45197A1336K309
6.3	47	10	C	3.0	325	495-1506-1-ND	2.03	16.61	37.46	495-1506-2-ND	750	486.00	B45197A1476K309
6.3	68	10	C	4.3	400	495-1507-1-ND	1.00	8.48	17.60	495-1507-2-ND	750	204.00	B45197A1686K309
6.3	68	10	D	4.3	175	495-1508-1-ND	1.35	11.28	24.30	495-1508-2-ND	750	297.00	B45197A1686K409
6.3	100	10	C	6.3	150	495-1509-1-ND	2.13	17.43	39.31	495-1509-2-ND	750	510.00	B45197A1107K309
6.3	100	10	D	6.3	125	495-1510-1-ND	1.45	11.89	26.83	495-1510-2-ND	750	348.00	B45197A1107K409
6.3	150	10	D	9.5	100	495-1511-1-ND	3.49	28.90	69.06	495-1511-2-ND	750	956.25	B45197A1157K409
6.3	150	10	E	9.5	100	495-1512-1-ND	2.20	18.04	40.70	495-1512-2-ND	400	352.00	B45197A1157K509
6.3	220	10	D	14	100	495-1513-1-ND	1.40	11.48	25.90	495-1513-2-ND	750	336.00	B45197A1227K409
6.3	220	10	E	14	100	495-1514-1-ND	2.40	19.68	44.40	495-1514-2-ND	400	384.00	B45197A1227K509
6.3	330	10	D	21	100	495-1515-1-ND	1.90	15.58	35.15	495-1515-2-ND	750	470.25	B45197A1337K409
6.3	330	10	E	21	100	495-1516-1-ND	2.05	17.00	40.63	495-1516-2-ND	400	360.00	B45197A1337K509
6.3	470	10	D	30	150	495-1517-1-ND	2.10	17.22	38.85	495-1517-2-ND	750	504.00	B45197A1477K409
6.3	470	10	E	30	100	495-1518-1-ND	3.00	24.60	55.50	495-1518-2-ND	400	480.00	B45197A1477K509
6.3	680	10	E	43	100	495-1519-1-ND	2.05	16.82	37.95	495-1519-2-ND	400	298.40	B45197A1687K509
10	10	10	C	1.0	400	495-1520-1-ND	.99	8.33	17.09	495-1520-2-ND	750	152.55	B45197A2106K309
10	15	10	C	1.5	400	495-1521-1-ND	.89	7.58	15.73	495-1521-2-ND	750	182.33	B45197A2156K309
10	22	10	C	2.2	375	495-1522-1-ND	2.13	17.43	39.31	495-1522-2-ND	750	510.00	B45197A2226K309
10	22	10	B	2.2	800	495-1677-1-ND	1.41	11.93	24.75	495-1677-2-ND	2,000	360.00/M	B45197A2226K209
10	33	10	C	3.3	375	495-1523-1-ND	.86	7.29	15.13	495-1523-2-ND	750	168.75	B45197A2336K309
10	47	10	C	4.7	300	495-1524-1-ND	1.13	9.40	20.25	495-1524-2-ND	750	247.50	B45197A2476K309
10	47	10	D	4.7	200	495-1525-1-ND	1.35	11.28	24.30	495-1525-2-ND	750	297.00	B45197A2476K409
10	68	20	C	6.8	250	495-1526-1-ND	2.00	16.40	37.00	495-1526-2-ND	750	480.00	B45197A2686M309
10	68	10	D	6.8	150	495-1527-1-ND	1.35	11.28	24.30	495-1527-2-ND	750	297.00	B45197A2686K409
10	100	10	C	10	250	495-1528-1-ND	1.30	10.66	24.05	495-1528-2-ND	750	312.00	B45197A2107K309
10	100	10	D	10	100	495-1529-1-ND	1.35	11.28	24.30	495-1529-2-ND	750	297.00	B45197A2107K409
10	100	10	E	10	100	495-1530-1-ND	2.20	18.04	40.70	495-1530-2-ND	400	352.00	B45197A2107K509
10	150	10	D	15	100	495-1531-1-ND	1.40	11.48	25.90	495-1531-2-ND	750	336.00	B45197A2157K409
10	150	10	E	15	100	495-1532-1-ND	2.40	19.68	44.40	495-1532-2-ND	400	384.00	B45197A2157K509
10	220	10	D	22	100	495-1533-1-ND	2.15	17.63	39.78	495-1533-2-ND	750	516.00	B45197A2227K409
10	220	10	E	22	100	495-1534-1-ND	2.05	17.00	40.63	495-1534-2-ND	400	360.00	B45197A2227K509
10	330	10	D	33	150	495-1535-1-ND	2.10	17.22	38.85	495-1535-2-ND	750	504.00	B45197A2337K409
10	330	10	E	33	100	495-1536-1-ND	2.46	20.40	48.75	495-1536-2-ND	400	432.00	B45197A2337K509
10	470	10	E	47	100	495-1537-1-ND	2.67	22.10	52.81	495-1537-2-ND	400	468.00	B45197A2477K509

(Continued)

F

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							1	10	25		Qty.	Pricing	
16	10	10	C	1.6	450	495-1538-1-ND	1.07	9.06	18.81	495-1538-2-ND	750	218.25	B45197A3106K309
16	10	10	B	1.6	800	495-1676-1-ND	2.30	18.86	42.55	495-1676-2-ND	2,000	644.00/M	B45197A3106K209
16	15	10	C	2.4	400	495-1539-1-ND	.99	8.33	17.09	495-1539-2-ND	750	152.55	B45197A3156K309
16	22	10	C	3.5	350	495-1540-1-ND	.91	7.69	15.95	495-1540-2-ND	750	195.75	B45197A3226K309
16	33	10	C	5.3	300	495-1541-1-ND	2.13	17.43	39.31	495-1541-2-ND	750	510.00	B45197A3336K309
16	33	10	D	5.3	200	495-1542-1-ND	1.35	11.28	24.30	495-1542-2-ND	750	297.00	B45197A3336K409
16	47	10	C	7.5	300	495-1543-1-ND	2.33	19.07	43.01	495-1543-2-ND	750	558.00	B45197A3476K309
16	47	10	D	7.5	175	495-1544-1-ND	1.35	11.28	24.30	495-1544-2-ND	750	297.00	B45197A3476K409
16	68	20	C	11	250	495-1545-1-ND	1.06	9.01	18.70	495-1545-2-ND	750	216.75	B45197A3686M309
16	68	10	D	11	150	495-1546-1-ND	1.35	11.28	24.30	495-1546-2-ND	750	297.00	B45197A3686K409
16	68	10	E	11	150	495-1547-1-ND	1.64	13.44	30.32	495-1547-2-ND	400	238.40	B45197A3686K509
16	100	10	D	16	150	495-1548-1-ND	1.40	11.48	25.90	495-1548-2-ND	750	336.00	B45197A3107K409
16	100	10	E	16	100	495-1549-1-ND	2.40	19.68	44.40	495-1549-2-ND	400	384.00	B45197A3107K509
16	150	10	D	24	150	495-1550-1-ND	3.69	30.60	73.13	495-1550-2-ND	750	1012.50	B45197A3157K409
16	220	10	E	35	100	495-1552-1-ND	7.10	66.65	155.88	495-1552-2-ND	400	1290.00	B45197A3227K509
20	6.8	10	C	1.4	475	495-1553-1-ND	.82	6.94	14.40	495-1553-2-ND	750	160.65	B45197A4685K309
20	10	10	C	2.0	450	495-1554-1-ND	2.13	17.43	39.31	495-1554-2-ND	750	510.00	B45197A4106K309
20	15	10	C	3.0	400	495-1555-1-ND	2.13	17.43	39.31	495-1555-2-ND	750	510.00	B45197A4156K309
20	22	10	D	4.4	200	495-1556-1-ND	1.35	11.28	24.30	495-1556-2-ND	750	297.00	B45197A4226K409
20	33	10	D	6.6	200	495-1557-1-ND	1.35	11.28	24.30	495-1557-2-ND	750	297.00	B45197A4336K409
20	33	10	E	6.6	200	495-1558-1-ND	1.72	14.07	31.75	495-1558-2-ND	400	249.60	B45197A4336K509
20	47	10	D	9.4	250	495-1559-1-ND	1.40	11.48	25.90	495-1559-2-ND	750	336.00	B45197A4476K409
20	47	10	E	9.4	150	495-1560-1-ND	2.20	18.04	40.70	495-1560-2-ND	400	352.00	B45197A4476K509
20	68	10	D	14	300	495-1561-1-ND	1.40	11.48	25.90	495-1561-2-ND	750	336.00	B45197A4686K409
20	68	10	E	14	200	495-1562-1-ND	2.40	19.68	44.40	495-1562-2-ND	400	384.00	B45197A4686K509
20	100	10	E	20	150	495-1563-1-ND	6.93	65.10	152.25	495-1563-2-ND	400	1260.00	B45197A4107K509
25	4.7	10	C	1.2	525	495-1564-1-ND	2.13	17.43	39.31	495-1564-2-ND	750	510.00	B45197A5475K309
25	10	10	C	2.5	450	495-1565-1-ND	2.13	17.43	39.31	495-1565-2-ND	750	510.00	B45197A5106K309
25	15	10	D	3.8	230	495-1566-1-ND	1.35	11.28	24.30	495-1566-2-ND	750	297.00	B45197A5156K409
25	22	10	D	5.5	230	495-1567-1-ND	1.35	11.28	24.30	495-1567-2-ND	750	297.00	B45197A5226K409
25	22	10	E	5.5	230	495-1568-1-ND	2.20	18.04	40.70	495-1568-2-ND	400	352.00	B45197A5226K509
25	33	10	D	8.3	230	495-1569-1-ND	1.40	11.48	25.90	495-1569-2-ND	750	336.00	B45197A5336K409
25	33	10	E	8.3	200	495-1570-1-ND	2.20	18.04	40.70	495-1570-2-ND	400	352.00	B45197A5336K509
25	47	10	D	12	250	495-1571-1-ND	1.90	15.58	35.15	495-1571-2-ND	750	456.00	B45197A5476K409
25	47	10	E	12	200	495-1572-1-ND	2.05	17.00	40.63	495-1572-2-ND	400	360.00	B45197A5476K509
25	68	10	E	17	200	495-1573-1-ND	2.05	17.00	40.63	495-1573-2-ND	400	360.00	B45197A5686K509
35	3.3	10	C	1.2	550	495-1574-1-ND	.85	7.23	15.00	495-1574-2-ND	750	167.40	B45197A6335K309
35	4.7	10	D	1.6	300	495-1575-1-ND	1.84	15.09	34.04	495-1575-2-ND	750	441.60	B45197A6475K409
35	6.8	10	D	2.4	300	495-1576-1-ND	1.35	11.28	24.30	495-1576-2-ND	750	297.00	B45197A6685K409
35	6.8	10	E	2.4	300	495-1577-1-ND	2.20	18.04	40.70	—	—	—	B45197A6685K509
35	10	10	D	3.5	260	495-1578-1-ND	2.45	20.09	45.33	495-1578-2-ND	750	588.00	B45197A6106K409
35	10	10	E	3.5	260	495-1579-1-ND	2.20	18.04	40.70	495-1579-2-ND	400	352.00	B45197A6106K509
35	15	10	D	5.3	260	495-1580-1-ND	1.35	11.28	24.30	495-1580-2-ND	750	297.00	B45197A6156K409
35	15	10	E	5.3	260	495-1581-1-ND	2.40	19.68	44.40	495-1581-2-ND	400	384.00	B45197A6156K509
35	22	10	D	7.7	260	495-1582-1-ND	1.40	11.46	25.84	495-1582-2-ND	750	288.00	B45197A6226K409
35	22	10	E	7.7	260	495-1583-1-ND	2.40	19.68	44.40	495-1583-2-ND	400	384.00	B45197A6226K509
35	33	10	E	12	260	495-1584-1-ND	2.50	20.50	46.25	495-1584-2-ND	400	400.00	B45197A6336K509
35	47	10	E	16	230	495-1585-1-ND	2.05	17.00	40.63	495-1585-2-ND	400	360.00	B45197A6476K509
50	4.7	10	D	2.4	300	495-1586-1-ND	2.00	16.40	37.00	495-1586-2-ND	750	480.00	B45197A7475K409
50	6.8	10	D	3.4	400	495-1587-1-ND	2.00	16.40	37.00	495-1587-2-ND	750	480.00	B45197A7685K409
50	6.8	10	E	3.4	300	495-1588-1-ND	2.21	18.13	40.90	495-1588-2-ND	400	321.60	B45197A7685K509
50	10	10	E	5.0	300	495-1589-1-ND	4.98	46.81	109.48	495-1589-2-ND	400	906.00	B45197A7106K509
Polymer Tantalum Capacitors Ultra-Low ESR													
2.5	220	20	V	55	25	495-2290-1-ND	3.08	25.50	60.94	495-2290-2-ND	1,000	1050.00	B76002V2279M025
2.5	220	20	V	55	45	495-2291-1-ND	2.61	21.63	51.70	—	—	—	B76002V2279M045
2.5	330	20	V	83	45	495-1591-1-ND	2.12	17.38	39.22	495-1591-2-ND	1,000	636.00	B76002V3379M 45K12
4.0	220	20	V	88	25	495-2294-1-ND	2.46	20.40	48.75	495-2294-2-ND	1,000	840.00	B76004V2279M025K12
4.0	220	20	V	88	45	495-1592-1-ND	2.26	18.70	44.69	495-1592-2-ND	1,000	770.00	B76004V2279M045
4.0	470	20	D	188	40	495-1598-1-ND	2.30	18.85	42.53	495-1598-2-ND	500	390.83	B76004D4779M40K14
6.3	100	20	V	63	45	495-1593-1-ND	3.08	25.50	60.94	495-1593-2-ND	1,000	1050.00	B76006V1079M045
6.3	150	20	D	95	55	495-2296-1-ND	2.22	18.24	41.16	—	—	—	B76006D1579M055
6.3	150	20	V	95	25	495-2300-1-ND	2.46	20.40	48.75	495-2300-2-ND	1,000	840.00	B76006V1579M025
6.3	150	20	V	95	35	495-2301-1-ND	1.36	11.17	25.20	—	—	—	B76006V1579M035
6.3	150	20	V	95	45	495-1594-1-ND	2.26	18.70	44.69	495-1594-2-ND	1,000	770.00	B76006V1579M45K11
6.3	220	20	D	139	40	495-2297-1-ND	2.22	18.24	41.16	—	—	—	B76006D2279M040
6.3	220	20	V	139	25	495-2302-1-ND	3.28	27.20	65.00	495-2302-2-ND	1,000	1120.00	B76006V2279M25K14
6.3	220	20	D	139	45	495-1600-1-ND	2.22	18.24	41.16	—	—	—	B76006D2279M045K14
6.3	220	20	D	139	50	495-1599-1-ND	2.13	17.49	39.45	—	—	—	B76006D2279M50K14
6.3	220	20	V	139	40	495-1596-1-ND	3.08	25.50	60.94	495-1596-2-ND	1,000	1050.00	B76006V2279M40K14
6.3	220	20	V	139	45	495-1595-1-ND	2.80	23.18	55.39	—	—	—	B76006V2279M45K14
6.3	330	20	D	208	45	495-1601-1-ND	1.68	13.77	31.08	—	—	—	B76006D3379M045
6.3	330	20	D	208	40	495-1602-1-ND	2.17	17.99	42.99	495-1602-2-ND	500	423.28	B76006D3379M040
10	68	20	V	68	45	495-2309-1-ND	2.46	20.40	48.75	495-2309-2-ND	1,000	840.00	B76010V6869M045
10	68	20	V	68	60	495-2310-1-ND	2.67	22.10	52.81	495-2310-2-ND	1,000	910.00	B76010V6869M060
10	100	20	D	100	55	495-1604-1-ND	2.10	17.22	38.85	495-1604-2-ND	500	357.00	B76010D1079M055
10	100	20	D	100	80	495-2305-1-ND	1.85	15.17	34.23	495-2305-2-ND	500	314.50	B76010D1079M080
10	100	20	V	100	55	495-2308-1-ND	2.87	23.80	56.88	495-2308-2-ND	1,000	980.00	B76010V1079M05511
10	100	20	V	100	80	495-1597-1-ND	2.87	23.80	56.88	495-1597-2-ND	1,000	980.00	B76010V1079M080
10	150	20	D	150	55	495-2306-1-ND	2.22	18.24	41.16	—	—	—	B76010D1579M055
16	47	20	V	75	70	495-2311-1-ND	2.26	18.70	44.69	495-2311-2-ND	1,000	770.00	B76016V4769M070
Multiple Anode Ultra-Low ESR Tantalum Capacitors													
4.0	680	10	E	27	30	495-1606-1-ND	9.15	85.55	210.19	495-1606-2-ND	400	1711.00	B45396R0687K509
4.0	1000	10	E	40	30	495-1607-1-ND	6.12	57.49	134.46	495-1607-2-ND	400	1112.76	B45396R0108K509V10
6.3	470	10	E	30	30	495-1608-1-ND	9.15	85.55	210.19	495-1608-2-ND	400	1711.20	B45396R1477K509
10	330	10	E	33	35	495-1609-1-ND	9.15	85.55	210.19	495-1609-2-ND	400	1711.00	B45396R2337K509
Multiple Anode Polymer Ultra-Low ESR Tantalum Capacitors													
4.0	680	20	E	270	18	495-1612-1-ND	5.53	51.94	121.47	—	—	—	B76304E6879M018
4.0	680	20	E	272	10	495-2312-1-ND	8.99	84.10	206.63	495-2312-2-ND	400	1682.00	B76304E6879M010

ROHM
SEMICONDUCTOR

TC and TCO Series
Standard Tantalum and Conductive Polymer Electrolytic Capacitors

Digi-Reel® RoHS COMPLIANT

Features:

Small package, large capacitance chip tantalum capacitor. These low impedance capacitors are ideal for digital and low voltage circuits used in portable electronic equipment.

TC Series:

Specifications:
- **Capacitance Tolerance:** ±20% • **Operating Temperature Range:** -55°C ~ 125°C (derated voltage from 85°C ~ 125°C) • **Tangent of Loss Angle:** Maximum 24% at 120Hz (25°C) • **Leakage Current:** 0.5µA or 0.01CV whichever is greater • **Impedance:** Max 27.5Ω at 100kHz

TCO Series:

Specifications:
- **Capacitance Tolerance:** ±20% • **Operating Temperature Range:** -55°C ~ 105°C (derated voltage from 85°C ~ 105°C) • **Tangent of Loss Angle: (A size code)** Maximum 6% at 120Hz (25°C) **(B size code)** Maximum 8% at 120Hz (25°C) • **Leakage Current: (A size code)** 3µA or 0.1CV µA • **(B size code)** less than 0.1CV µA • **Impedance: (A size code)** Max 0.3 or 0.5 or 0.8Ω at 100kHz **(B size code)** Maximum 0.2Ω at 100kHz

Case Size	Size Code	Dimension — mm L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8
1608	M	1.6	0.85	0.55	0.8	0.5
3528	B	3.5	2.8	1.9	1.9	0.8

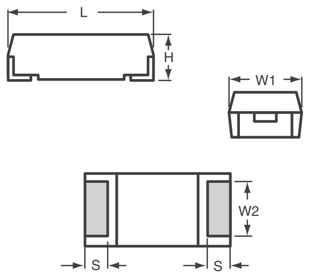

W.V. (DC)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
				TC Series — Standard Tantalum						
4	2.2	P	511-1427-1-ND	.50	4.35	38.00	511-1427-2-ND	3,000	180.00/M	TCP0G225M8R
	3.3	P	511-1428-1-ND	.56	4.87	42.56	511-1428-2-ND	3,000	202.00/M	TCP0G335M8R
	4.7	A	511-1429-1-ND	.33	2.83	24.70	—	—	—	TCA0G475M8R
	10	A	511-1430-1-ND	.34	2.99	26.11	511-1430-2-ND	2,000	124.00/M	TCA0G106M8R
	10	P	511-1431-1-ND	.33	2.83	24.70	511-1431-2-ND	3,000	117.00/M	TCP0G106M8R
	15	A	511-1432-1-ND	.59	5.09	44.46	511-1432-2-ND	2,000	211.00/M	TCA0G156M8R
	15	P	511-1433-1-ND	.70	6.05	52.82	511-1433-2-ND	3,000	250.00/M	TCP0G156M8R
	22	A	511-1434-1-ND	.34	2.99	26.11	511-1434-2-ND	2,000	124.00/M	TCA0G226M8R
	22	P	511-1435-1-ND	.49	4.22	36.86	511-1435-2-ND	3,000	175.00/M	TCP0G226M8R
	22	M	511-1493-1-ND	.86	7.48	65.36	511-1493-2-ND	4,000	310.00/M	TCM0G226M8R
	33	A	511-1436-1-ND	.34	2.99	26.11	511-1436-2-ND	2,000	124.00/M	TCA0G336M8R
	47	A	511-1437-1-ND	.44	3.78	33.06	511-1437-2-ND	2,000	157.00/M	TCA0G476M8R
6.3	1.5	P	511-1438-1-ND	.33	2.83	24.70	—	—	—	TCP0J155M8R
	2.2	P	511-1439-1-ND	.43	3.75	32.79	511-1439-2-ND	3,000	155.00/M	TCP0J225M8R
	3.3	A	511-1440-1-ND	.42	3.68	32.19	511-1440-2-ND	2,000	152.00/M	TCA0J335M8R
	3.3	P	511-1441-1-ND	.50	4.35	38.00	511-1441-2-ND	3,000	180.00/M	TCP0J335M8R
	4.7	A	511-1442-1-ND	.40	3.49	30.48	511-1442-2-ND	2,000	144.00/M	TCA0J475M8R
	4.7	P	511-1443-1-ND	.43	3.75	32.79	511-1443-2-ND	3,000	155.00/M	TCP0J475M8R
	6.8	P	511-1445-1-ND	.61	5.26	45.98	511-1445-2-ND	3,000	218.00/M	TCP0J685M8R
	10	A	511-1446-1-ND	.34	2.99	26.11	511-1446-2-ND	2,000	124.00/M	TCA0J106M8R
	10	P	511-1447-1-ND	.36	3.09	26.98	511-1447-2-ND	3,000	128.00/M	TCP0J106M8R
	10	M	511-1494-1-ND	.62	5.39	47.12	511-1494-2-ND	4,000	223.00/M	TCM0J106M8R
	15	P	511-1448-1-ND	.65	5.61	49.02	511-1448-2-ND	3,000	232.00/M	TCP0J156M8R
	15	A	511-1449-1-ND	.56	4.83	42.18	511-1449-2-ND	2,000	200.00/M	TCA0J156M8R
	22	A	511-1450-1-ND	.40	3.49	30.48	511-1450-2-ND	2,000	144.00/M	TCA0J226M8R
	33	A	511-1451-1-ND	.40	3.48	30.44	511-1451-2-ND	2,000	144.00/M	TCA0J336M8R
	47	A	511-1452-1-ND	.42	3.61	31.58	511-1452-2-ND	2,000	150.00/M	TCA0J476M8R
10	1	P	511-1453-1-ND	.40	3.48	30.44	511-1453-2-ND	3,000	144.00/M	TCP1A105M8R
	1.5	P	511-1454-1-ND	.52	4.48	39.14	511-1454-2-ND	3,000	185.00/M	TCP1A155M8R
	1.5	A	511-1455-1-ND	.47	4.09	35.76	511-1455-2-ND	2,000	169.00/M	TCA1A155M8R
	2.2	A	511-1456-1-ND	.34	2.99	26.11	511-1456-2-ND	2,000	124.00/M	TCA1A225M8R
	2.2	M	511-1495-1-ND	.73	6.31	55.10	511-1495-2-ND	4,000	261.00/M	TCM1A225M8R
	2.2	P	511-1457-1-ND	.50	4.35	38.00	511-1457-2-ND	3,000	180.00/M	TCP1A225M8R
	3.3	P	511-1458-1-ND	.42	3.68	32.19	511-1458-2-ND	3,000	152.00/M	TCP1A335M8R
	3.3	A	511-1459-1-ND	.34	2.99	26.11	511-1459-2-ND	2,000	124.00/M	TCA1A335M8R
	4.7	A	511-1460-1-ND	.36	3.13	27.32	511-1460-2-ND	2,000	129.00/M	TCA1A475M8R
	4.7	P	511-1461-1-ND	.39	3.35	29.26	511-1461-2-ND	3,000	139.00/M	TCP1A475M8R
	4.7	M	511-1496-1-ND	.62	5.39	47.12	511-1496-2-ND	4,000	223.00/M	TCM1A475M8R
	6.8	A	511-1462-1-ND	.54	4.70	41.04	511-1462-2-ND	2,000	194.00/M	TCA1A685M8R
	10	A	511-1463-1-ND	.40	3.49	30.48	511-1463-2-ND	2,000	144.00/M	TCA1A106M8R
	15	A	511-1464-1-ND	.37	3.18	27.82	511-1464-2-ND	2,000	132.00/M	TCA1A156M8R
	22	A	511-1465-1-ND	.39	3.41	29.83	511-1465-2-ND	2,000	141.00/M	TCA1A226M8R
16	1	A	511-1466-1-ND	.38	3.31	28.96	511-1466-2-ND	2,000	137.00/M	TCA1C105M8R
	1	P	511-1467-1-ND	.40	3.48	30.44	511-1467-2-ND	3,000	144.00/M	TCP1C105M8R
	1	M	511-1497-1-ND	.62	5.39	47.12	511-1497-2-ND	4,000	223.00/M	TCM1C105M8R
	1.5	A	511-1468-1-ND	.48	4.17	36.44	511-1468-2-ND	2,000	173.00/M	TCA1C155M8R
	2.2	A	511-1469-1-ND	.43	3.75	32.79	511-1469-2-ND	2,000	155.00/M	TCA1C225M8R
	3.3	A	511-1470-1-ND	.51	4.39	38.38	511-1470-2-ND	2,000	182.00/M	TCA1C335M8R
	4.7	A	511-1471-1-ND	.41	3.57	31.16	511-1471-2-ND	2,000	148.00/M	TCA1C475M8R
	6.8	A	511-1472-1-ND	.59	5.09	44.46	511-1472-2-ND	2,000	211.00/M	TCA1C685M8R
	10	A	511-1473-1-ND	.42	3.61	31.58	511-1473-2-ND	2,000	150.00/M	TCA1C106M8R
20	1	A	511-1474-1-ND	.37	3.18	27.82	511-1474-2-ND	2,000	132.00/M	TCA1D105M8R
				NEW! TCM Series — Chip Tantalum Capacitors NEW!						
4	10	M	511-1677-1-ND	1.04	9.06	79.15	511-1677-2-ND	4,000	375.00/M	TCM0G106M8R
6.3	4.7	M	511-1678-1-ND	1.02	8.89	77.67	511-1678-2-ND	4,000	368.00/M	TCM0J475M8R
10	10	M	511-1679-1-ND	1.02	8.84	77.25	511-1679-2-ND	4,000	366.00/M	TCM1A106M8R
16	2.2	M	511-1680-1-ND	.86	7.45	65.09	511-1680-2-ND	4,000	308.00/M	TCM1C225M8R
				TCO Series — Conductive Polymer Type						
4	10	A	511-1597-1-ND	1.00	8.68	75.81	—	—	—	TCOA0J106M8R
6.3	22	A	511-1598-1-ND	1.13	9.84	85.92	—	—	—	TCOA0J226M8R
	47	B	511-1600-1-ND	1.38	11.96	104.50	511-1600-2-ND	2,000	495.00/M	TCOB0J476M8R
10	10	A	511-1599-1-ND	1.00	8.68	75.81	—	—	—	TCOA1A106M8R
	33	B	511-1601-1-ND	1.38	11.96	104.50	511-1601-2-ND	2,000	495.00/M	TCOB1A336M8R

TCFG Series
Fused Tantalum Electrolytic Capacitors

RoHS COMPLIANT Digi-Reel®

Features: • Safety design by built-in open function • Wide capacitance range • Screening by thermal shock **Specifications:** • Capacitance Tolerance: ±20% • Operating Temperature Range: -55°C ~ 125°C (derated voltage from -55°C ~ 85°C) • DC Leakage Current: 0.5µA or 0.01CV, whichever is greater

Case Size	Size Code	Dimension — mm L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8
3528	B	3.5	2.8	1.9	1.9	0.8

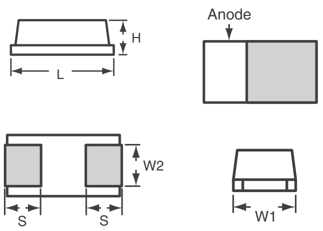

W.V. (DC)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Rohm Part No.
4	22	P	511-1487-1-ND	.88	7.66	66.88	511-1487-2-ND	317.00/M	TCFGP0G226M8R
	47	A	511-1476-1-ND	.40	3.48	30.44	511-1476-2-ND	144.00/M	TCFGA0G476M8R
	100	B	511-1656-1-ND ***NEW!***	1.04	9.05	79.04	511-1656-2-ND ***NEW!***	374.00/M	TCFGB0G107M8R
	220	B	511-1657-1-ND ***NEW!***	1.27	11.05	96.52	511-1657-2-ND ***NEW!***	457.00/M	TCFGB0G227M8R
6.3	10	P	511-1488-1-ND	.67	5.83	50.92	511-1488-2-ND	241.00/M	TCFGP0J106M8R
	15	P	511-1489-1-ND	.88	7.66	66.88	511-1489-2-ND	317.00/M	TCFGP0J156M8R
	22	A	511-1477-1-ND	.56	4.83	42.18	511-1477-2-ND	200.00/M	TCFGA0J226M8R
	22	B	511-1659-1-ND ***NEW!***	1.13	9.79	85.50	511-1659-2-ND ***NEW!***	405.00/M	TCFGB0J226M8R
	33	A	511-1478-1-ND	.67	5.79	50.54	511-1478-2-ND	239.00/M	TCFGA0J336M8R
	33	B	511-1661-1-ND ***NEW!***	1.15	10.01	87.40	511-1661-2-ND ***NEW!***	414.00/M	TCFGB0J336M8R
	47	B	511-1662-1-ND ***NEW!***	1.27	11.05	96.52	511-1662-2-ND ***NEW!***	457.00/M	TCFGB0J476M8R
	68	B	511-1663-1-ND ***NEW!***	1.38	12.01	104.88	511-1663-2-ND ***NEW!***	497.00/M	TCFGB0J686M8R
	100	B	511-1658-1-ND ***NEW!***	1.15	9.96	87.02	511-1658-2-ND ***NEW!***	412.00/M	TCFGB0J107M8R
	220	B	511-1660-1-ND ***NEW!***	1.50	13.05	114.00	511-1660-2-ND ***NEW!***	540.00/M	TCFGB0J227M8R
10	2.2	P	511-1490-1-ND	.52	4.48	39.14	511-1490-2-ND	185.00/M	TCFGP1A225M8R
	4.7	P	511-1491-1-ND	.57	4.92	42.94	511-1491-2-ND	203.00/M	TCFGP1A475M8R
	10	A	511-1479-1-ND	.50	4.33	37.85	511-1479-2-ND	179.00/M	TCFGA1A106M8R
	10	B	511-1664-1-ND ***NEW!***	1.03	8.96	78.28	511-1664-2-ND ***NEW!***	371.00/M	TCFGB1A106M8R
	15	A	511-1480-1-ND	.62	5.39	47.12	511-1480-2-ND	223.00/M	TCFGA1A156M8R
	22	A	511-1481-1-ND	1.13	9.83	85.88	511-1481-2-ND	407.00/M	TCFGA1A226M8R
	22	B	511-1666-1-ND ***NEW!***	.96	8.35	72.96	511-1666-2-ND ***NEW!***	346.00/M	TCFGB1A226M8R
	33	B	511-1667-1-ND ***NEW!***	1.27	11.01	96.14	511-1667-2-ND ***NEW!***	455.00/M	TCFGB1A336M8R
	47	B	511-1668-1-ND ***NEW!***	1.38	12.01	104.88	511-1668-2-ND ***NEW!***	497.00/M	TCFGB1A476M8R
	100	B	511-1665-1-ND ***NEW!***	1.51	13.14	114.76	511-1665-2-ND ***NEW!***	544.00/M	TCFGB1A107M8R
16	1	A	511-1482-1-ND	.47	4.08	35.64	511-1482-2-ND	169.00/M	TCFGA1C105M8R
	1	P	511-1492-1-ND	.49	4.23	36.97	511-1492-2-ND	175.00/M	TCFGP1C105M8R
	3.3	A	511-1484-1-ND	.53	4.61	40.28	511-1484-2-ND	191.00/M	TCFGA1C335M8R
	3.3	B	511-1672-1-ND ***NEW!***	.97	8.44	73.72	511-1672-2-ND ***NEW!***	349.00/M	TCFGB1C335M8R
	4.7	A	511-1485-1-ND	.48	4.13	36.10	511-1485-2-ND	171.00/M	TCFGA1C475M8R
	4.7	B	511-1674-1-ND ***NEW!***	1.04	9.00	78.66	511-1674-2-ND ***NEW!***	373.00/M	TCFGB1C475M8R
	6.8	B	511-1675-1-ND ***NEW!***	1.09	9.44	82.46	511-1675-2-ND ***NEW!***	391.00/M	TCFGB1C685M8R
	10	A	511-1483-1-ND	.59	5.09	44.46	511-1483-2-ND	211.00/M	TCFGA1C106M8R
	10	B	511-1669-1-ND ***NEW!***	1.13	9.79	85.50	511-1669-2-ND ***NEW!***	405.00/M	TCFGB1C106M8R
	15	B	511-1670-1-ND ***NEW!***	1.15	10.01	87.40	511-1670-2-ND ***NEW!***	414.00/M	TCFGB1C156M8R
	22	B	511-1671-1-ND ***NEW!***	1.07	9.27	80.94	511-1671-2-ND ***NEW!***	383.00/M	TCFGB1C226M8R
	33	B	511-1673-1-ND ***NEW!***	1.29	11.22	98.04	511-1673-2-ND ***NEW!***	464.00/M	TCFGB1C336M8R
20	1	A	511-1486-1-ND	.47	4.08	35.64	511-1486-2-ND	169.00/M	TCFGA1D105M8R
25	4.7	B	511-1676-1-ND ***NEW!***	1.56	13.53	118.18	511-1676-2-ND ***NEW!***	560.00/M	TCFGB1E475M8R

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM SEMICONDUCTOR

TCT Series Tantalum Electrolytic Capacitors

With Bottom Surface Electrodes

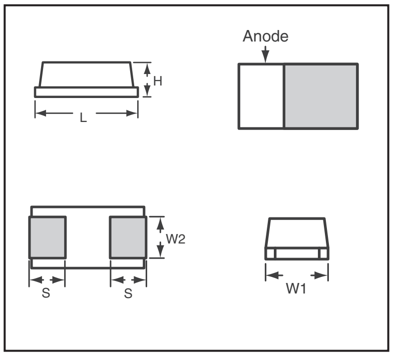

Features: The compact terminal construction allows for a larger tantalum element, therefore allowing significantly higher capacitances than conventional units of the same size. **Specifications:** • Capacitance Tolerance: ±20% • Operating Temperature Range: -55°C ~ 125°C (derated voltage from -55°C ~ 85°C)

Case Size	Size Code	Dimensions — mm L	W1	W2	H	S
2012	P	2	1.25	0.85	1.2 (Max.)	0.5
3216	AL	3.2	1.6	1.2	1.1	0.8

W.V. (DC)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Rohm Part No.
2.5	220	AL	511-1681-1-ND ***NEW!***	1.45	12.62	110.20	511-1681-2-ND ***NEW!***	522.00/M	TCTAL0E227M8R
4	47	P	511-1504-1-ND	.87	7.57	66.12	511-1504-2-ND	313.00/M	TCTP0G476M8R
6.3	33	P	511-1505-1-ND	.90	7.79	68.02	511-1505-2-ND	322.00/M	TCTP0J336M8R
	47	P	511-1682-1-ND ***NEW!***	1.23	10.70	93.48	511-1682-2-ND ***NEW!***	443.00/M	TCTP0J476M8R
	100	AL	511-1498-1-ND	1.02	8.87	77.52	511-1498-2-ND	367.00/M	TCTAL0J107M8R
10	22	P	511-1506-1-ND	.92	7.96	69.54	511-1506-2-ND	329.00/M	TCTP1A226M8R
	33	AL	511-1499-1-ND	1.06	9.18	80.18	511-1499-2-ND	380.00/M	TCTAL1A336M8R
	47	AL	511-1500-1-ND	1.06	9.18	80.18	511-1500-2-ND	380.00/M	TCTAL1A476M8R
16	10	P	511-1683-1-ND ***NEW!***	1.27	11.05	96.52	511-1683-2-ND ***NEW!***	457.00/M	TCTP1C106M8R
	15	AL	511-1501-1-ND	1.06	9.18	80.18	511-1501-2-ND	380.00/M	TCTAL1C156M8R
	22	AL	511-1502-1-ND	1.12	9.74	85.12	511-1502-2-ND	403.00/M	TCTAL1C226M8R
25	4.7	AL	511-1503-1-ND	1.06	9.18	80.18	511-1503-2-ND	380.00/M	TCTAL1E475M8R

VISHAY. Sprague

TANTALEX® Resin Coated Solid-Electrolyte Capacitors — 199D Series

Performance Characteristics:

- Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating)

Features:

- Terminations: 100% Tin
- Economical, high performance
- Rugged, reliable capacitors featuring low leakage current and low dissipation factor
- Standard ratings include replacements for Type 196D capacitors

Applications:

- Suitable for a broad range of consumer, commercial and industrial equipment

	Dimensions — mm							
	Fig. 1				Fig. 2			
Case	L	D Max.	H Max.	P 0.60	L	D Max.	H Max.	P 0.60
A	15.0	4.40	7.11	2.54	6.1 ±0.76	4.40	9.61	5.08
B	15.0	5.00	7.62	2.54	6.1 ±0.76	5.00	10.12	5.08
C	15.0	5.50	9.14	2.54	6.1 ±0.76	5.50	11.64	5.08
D	15.0	6.00	10.16	2.54	6.1 ±0.76	6.00	12.66	5.08
E	15.0	8.60	12.50	5.08	25.4 ±3.1	8.60	15.00	5.08
F	15.0	9.60	16.50	5.08	25.4 ±3.1	9.60	19.00	5.08

Fig. 1

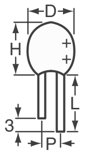

Fig. 2

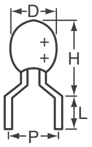

Fig.	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DCL @ + 25°C (µA)	Max. DF @ + 25°C 120Hz (%)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
10 Volt @ 85°C (7 Volt @ 125°C)													
1	A	4.7	±10%	0.5	6	718-1219-ND	.76	.56	.39	—	—	—	199D475X9010A1V1E3
1	B	10	±10%	1	8	718-1212-ND	.94	.72	.52	—	—	—	199D106X9010B1V1E3
1	C	22	±10%	2	8	718-1188-ND	1.10	.87	.66	—	—	—	199D226X9010C1V1E3
1	D	33	±10%	3	8	718-1191-ND	1.25	.99	.75	—	—	—	199D336X9010D1V1E3
1	D	47	±10%	4	8	718-1195-ND	2.07	1.68	1.29	—	—	—	199D476X9010D1V1E3
16 Volt @ 85°C (10 Volt @ 125°C)													
1	A	2.2	±10%	0.5	6	718-1214-ND	.76	.56	.39	—	—	—	199D225X9016A1V1E3
1	A	3.3	±10%	0.5	6	718-1217-ND	.76	.56	.39	—	—	—	199D335X9016A1V1E3
1	B	4.7	±10%	0.7	6	718-1220-ND	.86	.65	.47	—	—	—	199D475X9016B1V1E3
1	C	10	±10%	1.5	8	718-1178-ND	.95	.75	.57	—	—	—	199D106X9016C1V1E3
2	C	10	±10%	1.5	8	718-1183-ND	.95	.75	.57	—	—	—	199D106X9016C6V1E3
2	C	10	±10%	1.5	8	718-1199-1-ND†	1.25	1.03	.83	718-1199-2-ND	1,000	375.00	199D106X9016C6B1E3
1	C	15	±10%	2.4	8	718-1186-ND	1.14	.90	.68	—	—	—	199D156X9016C1V1E3
1	D	22	±10%	3.5	8	718-1182-ND	1.18	.93	.70	—	—	—	199D226X9016D1V1E3
2	D	22	±10%	3.5	8	718-1189-ND	1.18	.93	.70	—	—	—	199D226X9016D6V1E3
2	D	22	±10%	3.5	8	718-1202-1-ND†	1.55	1.28	1.03	718-1202-2-ND	1,000	465.00	199D226X9016D6B1E3
1	D	33	±10%	4	8	718-1192-ND	2.07	1.68	1.29	—	—	—	199D336X9016D1V1E3
2	F	100	±10%	7	10	718-1164-ND	6.18	5.56	4.20	—	—	—	199D107X9016F6V1E3
2	F	100	±10%	7	10	718-1171-1-ND†	8.15	7.66	6.80	718-1171-2-ND	500	1729.00	199D107X9016F6B1E3
20 Volt @ 85°C (13 Volt @ 125°C)													
1	C	10	±10%	2	8	718-1179-ND	1.14	.90	.68	—	—	—	199D106X9020C1V1E3
2	F	100	±10%	7	10	718-1165-ND	6.39	5.68	4.55	—	—	—	199D107X9020F6V1E3
2	F	100	±10%	7	10	718-1172-1-ND†	8.80	8.24	7.10	718-1172-2-ND	500	1952.50	199D107X9020F6B1E3
25 Volt @ 85°C (17 Volt @ 125°C)													
1	A	1	±10%	0.5	4	718-1209-ND	.76	.56	.39	—	—	—	199D105X9025A1V1E3
1	A	2.2	±10%	0.5	6	718-1215-ND	.76	.56	.39	—	—	—	199D225X9025A1V1E3
1	B	4.7	±10%	1	6	718-1221-ND	.98	.75	.54	—	—	—	199D475X9025B1V1E3
1	C	6.8	±10%	1.5	6	718-1196-ND	1.18	.93	.70	—	—	—	199D685X9025C1V1E3
1	C	10	±10%	2.5	8	718-1180-ND	1.18	.93	.70	—	—	—	199D106X9025C1V1E3
2	C	10	±10%	2.5	8	718-1184-ND	1.18	.93	.70	—	—	—	199D106X9025C6V1E3
2	C	10	±10%	2.5	8	718-1200-1-ND†	1.55	1.28	1.03	718-1200-2-ND	1,000	465.00	199D106X9025C6B1E3
1	D	15	±10%	3	8	718-1187-ND	2.28	1.85	1.41	—	—	—	199D156X9025D1V1E3
1	D	22	±10%	4	8	718-1190-ND	3.06	2.48	1.89	—	—	—	199D226X9025D1V1E3
2	E	47	±10%	6	8	718-1169-ND	4.38	3.94	2.98	—	—	—	199D476X9025E6V1E3
2	E	47	±10%	6	8	718-1176-1-ND†	5.78	5.43	4.82	718-1176-2-ND	500	1225.00	199D476X9025E6B1E3

† Cut Tape

(Continued)

TANTALEX® Resin Coated
Solid-Electrolyte Capacitors — 199D Series *(Cont.)*

Fig.	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DCL @ + 25°C (µA)	Max. DF @ + 25°C 120Hz (%)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
							1	10	100		Qty.	Pricing	
35 Volt @ 85°C (23 Volt @ 125°C)													
1	A	0.1	±10%	0.5	4	718-1207-ND	.76	.56	.39	—	—	—	199D104X9035A1V1E3
1	A	0.22	±10%	0.5	4	718-1213-ND	.76	.56	.39	—	—	—	199D224X9035A1V1E3
1	A	0.33	±10%	0.5	4	718-1216-ND	.76	.56	.39	—	—	—	199D334X9035A1V1E3
1	A	0.47	±10%	0.5	4	718-1206-ND	.76	.56	.39	—	—	—	199D474X9035A1V1E3
2	A	1	±10%	0.5	4	718-1198-1-ND†	1.00	.85	.58	718-1198-2-ND	1,000	256.00	199D105X9035A6B1E3
1	A	1	±20%	0.5	4	718-1203-ND	.76	.56	.39	—	—	—	199D105X0035A1V1E3
1	A	1	±10%	0.5	4	718-1204-ND	.76	.56	.39	—	—	—	199D105X9035A1V1E3
2	A	1	±10%	0.5	4	718-1210-ND	.76	.56	.39	—	—	—	199D105X9035A6V1E3
1	B	2.2	±10%	0.7	6	718-1205-ND	.90	.69	.49	—	—	—	199D225X9035B1V1E3
1	B	3.3	±10%	1	6	718-1218-ND	1.03	.78	.56	—	—	—	199D335X9035B1V1E3
1	C	4.7	±10%	1.5	6	718-1193-ND	1.06	.84	.63	—	—	—	199D475X9035C1V1E3
1	D	6.8	±10%	2.3	6	718-1197-ND	1.18	.93	.70	—	—	—	199D685X9035D1V1E3
1	D	10	±10%	3.5	8	718-1181-ND	1.84	1.49	1.14	—	—	—	199D106X9035D1V1E3
2	D	10	±10%	3.5	8	718-1185-ND	1.84	1.49	1.14	—	—	—	199D106X9035D6V1E3
2	D	10	±10%	3.5	8	718-1201-1-ND†	2.21	1.84	1.62	718-1201-2-ND	1,000	756.00	199D106X9035D6B1E3
2	E	22	±10%	5	8	718-1166-ND	3.38	2.73	2.13	—	—	—	199D226X9035E6V1E3
2	E	22	±10%	5	8	718-1173-1-ND†	3.92	3.49	3.17	718-1173-2-ND	500	790.50	199D226X9035E6B1E3
2	F	33	±10%	6	8	718-1168-ND	4.83	4.35	3.29	—	—	—	199D336X9035F6V1E3
2	F	47	±10%	7	8	718-1170-ND	6.39	5.68	4.55	—	—	—	199D476X9035F6V1E3
50 Volt @ 85°C (33 Volt @ 125°C)													
1	A	0.1	±10%	0.5	4	718-1208-ND	.81	.60	.41	—	—	—	199D104X9050A1V1E3
1	B	1.0	±10%	0.5	4	718-1211-ND	.86	.65	.47	—	—	—	199D105X9050B1V1E3
1	D	4.7	±10%	2	6	718-1194-ND	1.67	1.32	.99	—	—	—	199D475X9050D1V1E3
2	F	22	±10%	6	8	718-1167-ND	7.47	6.64	5.32	—	—	—	199D226X9050F6V1E3
2	F	22	±10%	6	8	718-1174-1-ND†	10.29	9.63	8.30	718-1174-2-ND	500	2282.50	199D226X9050F6B1E3

† Cut Tape

TANTALEX® Molded Case
Solid Electrolyte Capacitors — 173D Series

Features:

- Terminations: 100% Tin
- Miniature axial-lead capacitors available in five sizes
- Precision molded in gold colored, flame retardant, thermosetting epoxy resin
- Laser marked for improved legibility and tapered end of case provides easy identification of positive terminal

Performance Characteristics:

- Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating)

Applications:

- Designed for high performance automotive, industrial and commercial electronic equipment

Dimensions — mm		
Case Code	L Max.	D Max.
U	6.60	2.41
V	7.37	2.79
W	8.76	4.57
X	10.67	4.57
Y	13.97	7.11

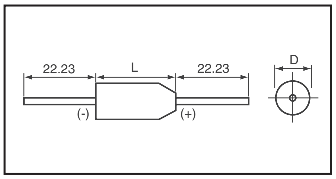

Rated Voltage (V)	Case Code	Capaci-tance (µF)	Capaci-tance Tolerance	Max. DCL @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
							1	10	100		Qty.	Pricing	
10	V	10.0	±10%	0.8	6	718-1421-1-ND	1.24	1.04	.76	718-1421-2-ND	4,000	303.00/M	173D106X9010VWE3
	W	22.0	±10%	1.5	6	718-1438-1-ND	1.22	.79	.60	—	—	—	173D226X9010WWE3
15	U	2.2	±10%	0.5	4	718-1416-1-ND	.58	.37	.28	—	—	—	173D225X9015UWE3
	V	6.8	±10%	0.8	6	718-1425-1-ND	1.25	1.03	.83	718-1425-2-ND	4,000	338.00/M	173D685X9015VWE3
	X	33.0	±10%	4.0	6	718-1433-1-ND	2.38	1.98	1.74	718-1433-2-ND	2,500	783.00/M	173D336X9015XWE3
	Y	150.0	±20%	10.0	8	718-1443-1-ND	7.99	5.11	3.89	—	—	—	173D157X0015YWE3
20	V	4.7	±10%	0.8	4	718-1411-1-ND	1.25	1.03	.83	718-1411-2-ND	4,000	338.00/M	173D475X9020VWE3
	W	10.0	±10%	1.6	6	718-1446-1-ND	2.20	1.81	1.46	718-1446-2-ND	2,500	616.00/M	173D106X9020WWE3
	X	15.0	±10%	2.4	6	718-1417-1-ND	2.09	1.74	1.53	718-1417-2-ND	2,500	689.00/M	173D156X9020XWE3
	X	22.0	±10%	3.5	6	718-1437-1-ND	2.38	1.98	1.74	718-1437-2-ND	2,500	783.00/M	173D226X9020XWE3
	Y	100.0	±10%	10.0	6	718-1418-1-ND	8.74	8.18	7.05	718-1418-2-ND	500	1939.00	173D107X9020YWE3
25	U	1.0	±10%	0.5	3	718-1448-1-ND	1.18	.99	.73	718-1448-2-ND	4,500	289.00/M	173D105X9025UWE3
	V	2.2	±10%	0.5	3	718-1441-1-ND	1.25	1.03	.83	718-1441-2-ND	4,000	338.00/M	173D225X9025VWE3
	V	3.3	±10%	0.7	3	718-1434-1-ND	1.25	1.03	.83	718-1434-2-ND	4,000	338.00/M	173D335X9025VWE3
	W	10.0	±10%	1.5	4	718-1420-1-ND	2.20	1.81	1.46	718-1420-2-ND	2,500	616.00/M	173D106X9025WWE3
	Y	22.0	±10%	4.4	6	718-1414-1-ND	5.33	4.74	4.30	718-1414-2-ND	500	1073.00	173D226X9025YWE3
	Y	47.0	±10%	9.4	6	718-1428-1-ND	6.53	6.14	5.45	718-1428-2-ND	500	1386.00	173D476X9025YWE3
35	U	0.10	±10%	0.5	3	718-1450-1-ND	1.18	.99	.73	718-1450-2-ND	4,500	289.00/M	173D104X9035UWE3
	U	0.33	±10%	0.5	3	718-1435-1-ND	.58	.37	.28	—	—	—	173D334X9035UWE3
	U	0.47	±10%	0.5	3	718-1432-1-ND	1.18	.99	.73	718-1432-2-ND	4,500	289.00/M	173D474X9035UWE3
	V	1.0	±10%	0.5	3	718-1422-1-ND	1.24	1.04	.76	718-1422-2-ND	4,000	303.00/M	173D105X9035VWE3
	V	1.5	±10%	0.5	3	718-1445-1-ND	1.25	1.03	.83	718-1445-2-ND	4,000	338.00/M	173D155X9035VWE3
	X	6.8	±10%	1.9	4	718-1424-1-ND	1.44	.92	.70	—	—	—	173D685X9035XWE3
	X	6.8	±20%	1.9	4	718-1426-1-ND	1.44	.92	.70	—	—	—	173D685X0035XWE3
	X	10.0	±10%	2.8	4	718-1419-1-ND	2.38	1.98	1.74	718-1419-2-ND	2,500	783.00/M	173D106X9035XWE3
	Y	22.0	±10%	6.2	6	718-1436-1-ND	5.33	4.74	4.30	718-1436-2-ND	500	1073.00	173D226X9035YWE3
	Y	33.0	±10%	9.2	6	718-1413-1-ND	6.57	6.17	5.48	718-1413-2-ND	500	1393.00	173D336X9035YWE3
	Y	47.0	±10%	10.0	6	718-1427-1-ND	8.74	8.18	7.05	718-1427-2-ND	500	1939.00	173D476X9035YWE3
50	U	0.10	±10%	0.5	3	718-1449-1-ND	1.45	1.19	.96	718-1449-2-ND	4,500	392.00/M	173D104X9050UWE3
	U	0.22	±10%	0.5	3	718-1442-1-ND	.65	.42	.32	—	—	—	173D224X9050UWE3
	V	0.47	±10%	0.5	3	718-1412-1-ND	.76	.49	.37	—	—	—	173D474X9050VWE3
	V	1.0	±10%	0.5	3	718-1447-1-ND	1.55	1.28	1.03	718-1447-2-ND	4,000	419.00/M	173D105X9050VWE3
	X	4.7	±10%	1.9	4	718-1430-1-ND	1.98	1.27	.97	—	—	—	173D475X9050XWE3

VISHAY Sprague MICROTAN™ Leadframeless Solid Tantalum Molded Chip Capacitors — 298D Series

Features: • 0402, 0603 and 0805 Footprint • Lead (Pb)-free L-shaped terminations • Best volumetric efficiency • No piezo-electric noise problem **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating) **Applications:** • Mobile phones • MP3 players • LCD modules • Medical implantable products • Other portable consumer electronic products

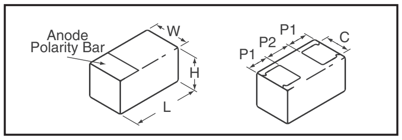

Size Code	Case Code	Dimensions — mm L	W	H	P1	P2 (Ref.)	C
0402	K	1.0 +0.2	0.5 +0.2	0.6 max.	0.25 ±0.1	0.5	0.38 ±0.1
0603	M	1.60 ±0.1	0.85 ±0.1	0.80 ±0.1	0.50 ±0.1	0.60	0.60 ±0.1
0805	P	2.4 ±0.1	1.45 ±0.1	1.10 ±0.1	0.50 ±0.1	1.40	0.90 ±0.1

Rated Voltage (V)	Size Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
4	0402	4.7	±20%	0.5	15	20	0.027	718-1616-1-ND	1.58	1.30	1.04	718-1616-2-ND	5,000	425.00/M	298D475X0004K2T
	0402	10	±20%	4.0	50	20	0.027	718-1615-1-ND	2.14	1.76	1.42	718-1615-2-ND	5,000	578.00/M	298D106X0004K2T
	0402	15	±20%	10	50	20	0.027	718-1717-1-ND ***NEW!***	2.17	1.81	1.59	718-1717-2-ND ***NEW!***	5,000	689.00/M	298D156X0004K2T
	0603	47	±20%	3.8	20	4.0	0.08	718-1609-1-ND	1.89	1.55	1.25	718-1609-2-ND	4,000	510.00/M	298D476X0004M2T
6.3	0603	4.7	±20%	0.5	8	8	0.09	718-1162-1-ND	1.25	1.03	.83	718-1162-2-ND	4,000	338.00/M	298D475X06R3M2T
	0603	10	±20%	0.6	8	8	0.09	718-1160-1-ND	1.49	1.22	.99	718-1160-2-ND	4,000	401.00/M	298D106X06R3M2T
	0603	22	±20%	2.8	20	5.5	0.067	718-1610-1-ND	1.89	1.55	1.25	718-1610-2-ND	4,000	510.00/M	298D226X06R3M2T
	0603	33	±20%	4.2	30	7.5	0.058	718-1611-1-ND	1.89	1.55	1.25	718-1611-2-ND	4,000	510.00/M	298D336X06R3M2T
	0805	100	±20%	6.3	30	2.0	0.150	718-1607-1-ND	2.05	1.69	1.36	718-1607-2-ND	3,000	574.00/M	298D107X06R3P2T
10	0402	2.2	±20%	0.5	8.0	15	0.027	718-1617-1-ND	2.14	1.76	1.42	718-1617-2-ND	5,000	578.00/M	298D225X0010K2T
	0402	1.0	±20%	0.5	6.0	20	0.027	718-1719-1-ND ***NEW!***	1.58	1.30	1.04	718-1719-2-ND ***NEW!***	5,000	425.00/M	298D105X0010K2T
	0603	4.7	±20%	0.5	6	10	0.08	718-1161-1-ND	1.25	1.03	.83	718-1161-2-ND	4,000	338.00/M	298D475X0010M2T
	0603	4.7	±10%	0.5	6	10	0.08	718-1163-1-ND	1.25	1.03	.83	718-1163-2-ND	4,000	338.00/M	298D475X9010M2T
	0603	10	±20%	1	8	8	0.08	718-1159-1-ND	2.10	1.73	1.39	718-1159-2-ND	4,000	567.00/M	298D106X0010M2T
	0603	15	±20%	1.5	20	7.5	0.058	718-1612-1-ND	1.89	1.55	1.25	718-1612-2-ND	4,000	510.00/M	298D156X0010M2T
	0603	22	±20%	22	40	10.0	0.05	718-1718-1-ND ***NEW!***	2.14	1.76	1.42	718-1718-2-ND ***NEW!***	4,000	578.00/M	298D226X0010M2T
	0805	47	±20%	4.7	22	3.0	0.122	718-1608-1-ND	2.05	1.69	1.36	718-1608-2-ND	3,000	574.00/M	298D476X0010P2T
16	0402	1	±20%	3.0	10	20	0.027	718-1618-1-ND	2.14	1.76	1.42	718-1618-2-ND	5,000	578.00/M	298D105X0016K2T
	0603	1	±20%	0.5	6	20	0.045	718-1157-1-ND	1.25	1.03	.83	718-1157-2-ND	4,000	567.00/M	298D105X0016M2T
	0603	1	±10%	0.5	6	20	0.045	718-1158-1-ND	1.25	1.03	.83	718-1158-2-ND	4,000	338.00/M	298D105X9016M2T
	0603	2.2	±20%	0.5	10	12.0	0.045	718-1613-1-ND	1.27	1.06	.78	718-1613-2-ND	4,000	309.00/M	298D225X0016M2T
25	0603	1	±20%	0.5	6.0	10.0	0.05	718-1614-1-ND	1.89	1.55	1.25	718-1614-2-ND	4,000	510.00/M	298D105X0025M2T
50	0805	1	±20%	0.5	8.0	8.0	0.075	718-1720-1-ND ***NEW!***	2.05	1.69	1.36	718-1720-2-ND ***NEW!***	3,000	574.00/M	298D105X0050P2T

MICROTAN™ Low ESR Leadframeless Solid Tantalum Molded Chip Capacitors — TR8 Series

Features: • 0603 Footprint • Lead (Pb)-free face-down terminations • Low ESR • Best volumetric efficiency • No piezo-electric noise problem **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating) • Capacitance Tolerance: ±20% **Applications:** • Cell phones • Digital cameras • MP3 players • Other portable devices

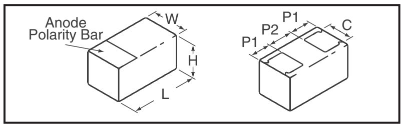

Size Code	Case Code	Dimensions — mm L	W	H	P1	P2 (Ref.)	C
0603	M	1.60 ±0.1	0.85 ±0.1	0.80 ±0.1	0.50 ±0.1	0.60 ±0.1	0.60 ±0.1

Rated Voltage (V)	Size Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Vishay Part No.
4	0603	47	3.8	20	1.5	0.129	718-1670-1-ND	2.15	1.79	1.58	718-1670-2-ND	683.00/M	TR8M476M004C1500
6.3	0603	22	2.8	20	1.5	0.129	718-1671-1-ND	2.15	1.79	1.58	718-1671-2-ND	683.00/M	TR8M226M6R3C1500
	0603	33	4.2	30	1.5	0.129	718-1672-1-ND	2.15	1.79	1.58	718-1672-2-ND	683.00/M	TR8M336M6R3C1500
10	0603	10	1.0	20	2.0	0.112	718-1673-1-ND	2.15	1.79	1.58	718-1673-2-ND	683.00/M	TR8M106M010C2000
	0603	15	1.5	20	3.0	0.091	718-1674-1-ND	2.15	1.79	1.58	718-1674-2-ND	683.00/M	TR8M156M010C3000
16	0603	1	0.5	6.0	9.5	0.050	718-1675-1-ND	1.57	1.29	1.04	718-1675-2-ND	423.00/M	TR8M105M016C9500
	0603	4.7	0.8	8.0	4.0	0.079	718-1676-1-ND	2.15	1.79	1.58	718-1676-2-ND	683.00/M	TR8M475M016C4000

NEW! MICROTAN™ High Reliability, Low DCL, Leadframeless Molded Chip Capacitors — TM8 Series

Features: • High reliability solid surface mount tantalum capacitors • Low DCL for extended battery life • Small sizes for space constrained applications • L-shaped terminations for superior board mounting • Suitable for medical implantable applications with additional screening

Performance Characteristics: • Operating Temperature: -55°C ~ 85°C (to 125°C with voltage derating)

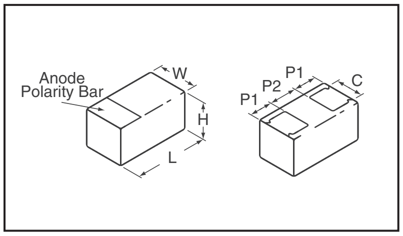

Size Code Inches (mm)	Case Code	Dimensions — mm L	W	H	P1	P2 (Ref.)	C
0603 (1605)	M	1.60 ±0.15	0.84 ±0.15	0.84 ±0.15	0.51 ±0.1	0.48 (min.)	0.61 ±0.1
0805 (2012)	L	2.05 ±0.2	1.3 ±0.10	1.0 (max.)	0.50 ±0.1	0.70 (min.)	0.9 +0.23/-0.02
	R	2.06 ±0.15	1.35 ±0.15	1.47 ±0.10	0.51 ±0.1	0.71 (min.)	0.90 ±0.1
	W	2.06 ±0.15	1.35 ±0.15	1.2 (max.)	0.51 ±0.1	0.71 (min.)	0.90 ±0.1
— (3528)	T	3.505 +1.101/-0.203	2.80 ±0.1	1.52 (max.)	0.80 +0.1/-0.15	2.24 ±0.25	2.3 +0.23/-0.025
—	P	2.45 ±0.15	1.5 ±0.15	1.25 (max.)	0.51 ±0.1	1.1 (min.)	0.90 ±0.1

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C (%)	Max. ESR @ 25°C 100kHz (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 300	Vishay Part No.
6.3	M	10	0.32	8	5.0	718-1721-1-ND	13.95	13.05	11.25	718-1721-2-ND	1957.50	TM8M106K6R3UBA
	M	15	0.47	8	5.0	718-1722-1-ND	13.95	13.05	11.25	718-1722-2-ND	1957.50	TM8M156K6R3UBA
10	M	1.0	0.20	6	12.0	718-1723-1-ND	13.95	13.05	11.25	718-1723-2-ND	1957.50	TM8M105K010UBA
	M	4.7	0.24	8	6.0	718-1724-1-ND	13.95	13.05	11.25	718-1724-2-ND	1957.50	TM8M475K010UBA
	L	7.5	0.38	8	8.0	718-1725-1-ND	14.73	13.78	11.88	718-1725-2-ND	2066.40	TM8L755K010UBA
	R	10	0.50	8	6.0	718-1726-1-ND	14.57	13.63	11.75	718-1726-2-ND	2044.50	TM8R106K010UBA
	T	47	2.35	8	1.0	718-1727-1-ND	14.88	13.92	12.00	718-1727-2-ND	2088.00	TM8T476K010UBA
16	M	1.0	0.20	6	12.0	718-1728-1-ND	13.95	13.05	11.25	718-1728-2-ND	1957.50	TM8M105K016UBA
	R	10	0.80	8	6.0	718-1729-1-ND	14.26	13.34	11.50	718-1729-2-ND	2001.00	TM8R106K016UBA
20	W	1.0	0.20	8	8.0	718-1730-1-ND	14.63	13.69	11.80	718-1730-2-ND	2053.20	TM8W105K020UBA
	R	3.3	0.33	8	8.0	718-1731-1-ND	14.26	13.34	11.50	718-1731-2-ND	2001.00	TM8R335K020UBA
25	R	1.0	0.20	6	10.0	718-1732-1-ND	14.26	13.34	11.50	718-1732-2-ND	2001.00	TM8R105K025UBA
	P	4.7	0.59	6	6.0	718-1733-1-ND	14.26	13.34	11.50	718-1733-2-ND	2001.00	TM8P475K025UBA
40	P	1.0	0.20	8	10.0	718-1735-1-ND	14.26	13.34	11.50	718-1735-2-ND	2001.00	TM8P105K040UBA

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Sprague

TANTAMOUNT® Solid Tantalum Commercial Chip Capacitors —

293D and 593D Series

RoHS COMPLIANT

Digi-Reel®

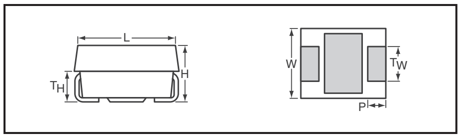

293D Series:

Features: • Meets IEC Specification QC300801/US0001 and EIA 535BAAC
Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage deratings)

593D Series:

Features: • High ripple current carrying capability • Low ESR • Meets EIA 535BAAE and IEC specification QC300801/US0001
Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 85°C (to 125°C with voltage derating)
Applications: • Switch mode power supplies and converters

Case Code	EIA Size	Dimensions — mm L	W	H	P	TW	TH (Min.)
A	3216-18	3.2 ±0.20	1.6 ±0.20	1.6 ±0.20	0.80 ±0.30	1.2 ±0.10	0.70
B	3528-21	3.5 ±0.20	2.8 ±0.20	1.9 ±0.20	0.80 ±0.30	2.2 ±0.10	0.70
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
									1	10	100		Qty.	Pricing	
293D Series															
4	A	100	±10%	10.0	30	2.5	0.22	718-1740-1-ND ***NEW!***	.91	7.64	47.88	718-1740-2-ND ***NEW!***	2,000	182.00/M	293D107X9004A2TE3
6.3	A	10	±10%	0.6	6	3.4	0.15	718-1126-1-ND	.73	6.11	38.30	718-1126-2-ND	2,000	146.00/M	293D106X96R3A2TE3
	B	10	±10%	0.6	6	2.9	0.17	718-1127-1-ND	.91	7.64	47.88	718-1127-2-ND	2,000	182.00/M	293D106X96R3B2TE3
	A	22	±10%	1.3	6	2.9	0.16	718-1139-1-ND	.82	6.83	42.84	718-1139-2-ND	2,000	163.00/M	293D226X96R3A2TE3
	B	22	±10%	1.3	6	2	0.21	718-1140-1-ND	1.03	8.60	53.93	718-1140-2-ND	2,000	205.00/M	293D226X96R3B2TE3
	C	22	±10%	1.3	6	1.8	0.25	718-1816-1-ND ***NEW!***	1.40	11.67	85.63	718-1816-2-ND ***NEW!***	500	223.50	293D226X96R3C2TE3
	B	47	±10%	2.8	6	1.9	0.21	718-1154-1-ND	1.03	8.57	62.93	718-1154-2-ND	2,000	264.00/M	293D476X96R3B2TE3
	B	68	±10%	4.1	6	1.8	0.22	718-1156-1-ND	1.03	8.57	62.93	718-1156-2-ND	2,000	264.00/M	293D686X96R3B2TE3
	B	100	±10%	6	15	1.7	0.22	718-1128-1-ND	1.03	8.57	62.93	718-1128-2-ND	2,000	264.00/M	293D107X96R3B2TE3
	C	100	±10%	6	6	0.8	0.37	718-1058-1-ND	1.40	11.67	85.63	718-1058-2-ND	500	223.50	293D107X96R3C2TE3
	D	100	±10%	6	6	0.7	0.46	718-1059-1-ND	1.52	12.46	100.29	718-1059-2-ND	500	258.50	293D107X96R3D2TE3
	D	120	±10%	6.3	8	0.7	0.46	718-1745-1-ND ***NEW!***	1.15	9.60	70.46	718-1745-2-ND ***NEW!***	500	184.00	293D127X96R3D2TE3
	D	220	±10%	13.2	8	0.6	0.50	718-1073-1-ND	2.42	19.88	160.02	718-1073-2-ND	500	412.00	293D227X96R3D2TE3
	C	220	±10%	13.9	14	0.7	0.39	718-1743-1-ND ***NEW!***	1.40	11.67	85.63	718-1743-2-ND ***NEW!***	500	223.50	293D227X96R3C2TE3
	D	470	±10%	28.2	14	0.5	0.55	718-1749-1-ND ***NEW!***	3.55	29.46	259.95	718-1749-2-ND ***NEW!***	500	693.00	293D477X96R3D2TE3
	E	470	±10%	28.2	10	1.5	0.57	718-1826-1-ND ***NEW!***	4.78	42.46	384.83	718-1826-2-ND ***NEW!***	400	849.20	293D477X96R3E2TE3
	E	680	±20%	42.8	20	0.5	0.57	718-1754-1-ND ***NEW!***	4.91	43.62	395.27	718-1754-2-ND ***NEW!***	400	872.40	293D687X06R3E2TE3
10	A	2.2	±10%	0.5	6	6.3	0.11	718-1130-1-ND	.67	5.63	35.28	718-1130-2-ND	2,000	134.00/M	293D225X9010A2TE3
	A	4.7	±10%	0.5	6	5	0.12	718-1146-1-ND	.67	5.63	35.28	718-1146-2-ND	2,000	134.00/M	293D475X9010A2TE3
	B	4.7	±10%	0.5	6	3.4	0.16	718-1147-1-ND	.91	7.64	47.88	718-1147-2-ND	2,000	182.00/M	293D475X9010B2TE3
	A	10	±20%	1	6	3.4	0.15	718-1118-1-ND	.78	6.51	40.82	718-1118-2-ND	2,000	156.00/M	293D106X0010A2TE3
	A	10	±10%	1	6	3.4	0.15	718-1121-1-ND	.78	6.51	40.82	718-1121-2-ND	2,000	156.00/M	293D106X9010A2TE3
	B	10	±20%	1	6	2.5	0.18	718-1119-1-ND	.91	7.64	47.88	718-1119-2-ND	2,000	182.00/M	293D106X0010B2TE3
	B	10	±10%	1	6	2.5	0.18	718-1122-1-ND	.91	7.64	47.88	718-1122-2-ND	2,000	182.00/M	293D106X9010B2TE3
	C	10	±10%	1	6	1.8	0.25	718-1047-1-ND	1.08	9.16	62.21	718-1047-2-ND	500	164.00	293D106X9010C2TE3
	C	15	±10%	1.5	6	1.8	0.25	718-1812-1-ND ***NEW!***	1.08	9.16	62.21	718-1812-2-ND ***NEW!***	500	164.00	293D156X9010C2TE3
	B	22	±10%	2.2	6	1.9	0.21	718-1137-1-ND	1.09	9.22	62.64	718-1137-2-ND	2,000	261.00/M	293D226X9010B2TE3
	C	22	±10%	2.2	6	1.5	0.27	718-1065-1-ND	1.08	9.16	62.21	718-1065-2-ND	500	164.00	293D226X9010C2TE3
	B	33	±10%	3.3	6	1.9	0.21	718-1144-1-ND	1.03	8.57	62.93	718-1144-2-ND	2,000	264.00/M	293D336X9010B2TE3
	C	33	±10%	3.3	6	1.4	0.28	718-1075-1-ND	1.06	8.83	64.83	718-1075-2-ND	500	169.00	293D336X9010C2TE3
	D	33	±10%	3.3	6	0.8	0.43	718-1076-1-ND	1.52	12.46	100.29	718-1076-2-ND	500	258.50	293D336X9010D2TE3
	B	47	±10%	4.7	6	1.8	0.22	718-1153-1-ND	1.03	8.57	62.93	718-1153-2-ND	2,000	264.00/M	293D476X9010B2TE3
	C	47	±10%	4.7	6	1.1	0.32	718-1087-1-ND	1.31	10.96	80.45	718-1087-2-ND	500	210.00	293D476X9010C2TE3
	D	47	±10%	4.7	6	0.7	0.46	718-1088-1-ND	1.52	12.46	100.29	718-1088-2-ND	500	258.50	293D476X9010D2TE3
	C	68	±10%	6.8	6	1.0	0.33	718-1819-1-ND ***NEW!***	1.40	11.67	85.63	718-1819-2-ND ***NEW!***	500	223.50	293D686X9010C2TE3
	D	68	±10%	6.8	6	0.7	0.46	718-1095-1-ND	1.52	12.46	100.29	718-1095-2-ND	500	258.50	293D686X9010D2TE3
	C	100	±10%	10	8	0.9	0.35	718-1055-1-ND	1.40	11.67	85.63	718-1055-2-ND	500	223.50	293D107X9010C2TE3
	D	100	±20%	10	8	0.6	0.50	718-1054-1-ND	1.86	15.22	122.50	718-1054-2-ND	500	315.50	293D107X0010D2TE3
	D	100	±10%	10	8	0.6	0.50	718-1056-1-ND	1.86	15.22	122.50	718-1056-2-ND	500	315.50	293D107X9010D2TE3
	E	150	±10%	15	8	0.5	0.57	718-1824-1-ND ***NEW!***	3.77	31.24	275.61	718-1824-2-ND ***NEW!***	400	661.60	293D157X9010E2TE3
	D	220	±10%	22	8	0.6	0.50	718-1072-1-ND	3.43	28.44	250.92	718-1072-2-ND	500	669.00	293D227X9010D2TE3
	E	220	±10%	22	8	0.5	0.57	718-1026-1-ND	4.04	35.93	325.64	718-1026-2-ND	400	718.80	293D227X9010E2TE3
	E	330	±10%	33	10	0.5	0.57	718-1028-1-ND	4.78	42.46	384.83	718-1028-2-ND	400	849.20	293D337X9010E2TE3
	D	330	±10%	33.0	15	0.5	0.57	718-1747-1-ND ***NEW!***	3.55	29.46	259.95	718-1747-2-ND ***NEW!***	500	693.00	293D337X9010D2TE3
	E	470	±10%	47.0	15	0.5	0.57	718-1753-1-ND ***NEW!***	4.78	42.46	384.83	718-1753-2-ND ***NEW!***	400	849.20	293D477X9010E2TE3
16	A	1	±20%	0.5	4	9.3	0.09	718-1111-1-ND	.67	5.63	35.28	718-1111-2-ND	2,000	134.00/M	293D105X0016A2TE3
	A	1	±10%	0.5	4	9.3	0.09	718-1113-1-ND	.67	5.63	35.28	718-1113-2-ND	2,000	134.00/M	293D105X9016A2TE3
	A	2.2	±10%	0.5	6	5.9	0.11	718-1131-1-ND	.67	5.63	35.28	718-1131-2-ND	2,000	134.00/M	293D225X9016A2TE3
	B	2.2	±10%	0.5	6	4.6	0.14	718-1132-1-ND	.91	7.64	47.88	718-1132-2-ND	2,000	182.00/M	293D225X9016B2TE3
	A	3.3	±10%	0.5	6	5	0.12	718-1142-1-ND	.67	5.63	35.28	718-1142-2-ND	2,000	134.00/M	293D335X9016A2TE3
	B	3.3	±10%	0.5	6	3.5	0.16	718-1143-1-ND	.91	7.64	47.88	718-1143-2-ND	2,000	182.00/M	293D335X9016B2TE3
	A	4.7	±10%	0.8	6	5	0.12	718-1148-1-ND	.73	6.11	38.30	718-1148-2-ND	2,000	146.00/M	293D475X9016A2TE3
	B	4.7	±10%	0.8	6	2.9	0.17	718-1149-1-ND	.91	7.64	47.88	718-1149-2-ND	2,000	182.00/M	293D475X9016B2TE3
	B	6.8	±10%	1.1	6	2.5	0.18	718-1155-1-ND	.91	7.64	47.88	718-1155-2-ND	2,000	182.00/M	293D685X9016B2TE3
	A	10	±10%	1.6	6	3	0.16	718-1123-1-ND	.82	6.83	42.84	718-1123-2-ND	2,000	163.00/M	293D106X9016A2TE3
	B	10	±20%	1.6	6	2	0.21	718-1120-1-ND	1.03	8.60	53.93	718-1120-2-ND	2,000	205.00/M	293D106X0016B2TE3
	B	10	±10%	1.6	6	2	0.21	718-1124-1-ND	1.03	8.60	53.93	718-1124-2-ND	2,000	205.00/M	293D106X9016B2TE3
	C	10	±20%	1.6	6	1.8	0.25	718-1042-1-ND	1.08	9.16	62.21	718-1042-2-ND	500	164.00	293D106X0016C2TE3
	C	10	±10%	1.6	6	1.8	0.25	718-1048-1-ND	1.08	9.16	62.21	718-1048-2-ND	500	164.00	293D106X9016C2TE3
	B	15	±10%	2.4	6	2	0.21	718-1129-1-ND	1.09	9.22	62.64	718-1129-2-ND	2,000	261.00/M	293D156X9016B2TE3
	C	15	±10%	2.4	6	1.5	0.27	718-1813-1-ND ***NEW!***	1.08	9.16	62.21	718-1813-2-ND ***NEW!***	500	164.00	293D156X9016C2TE3
	B	22	±10%	3.5	6	1.9	0.21	718-1138-1-ND	1.03	8.57	62.93	718-1138-2-ND	2,000	264.00/M	293D226X9016B2TE3
	C	22	±10%	3.5	6	1.4	0.28	718-1066-1-ND	1.06	8.83	64.83	718-1066-2-ND	500	169.00	293D226X9016C2TE3
	D	22	±10%	3.5	6	0.8	0.43	718-1067-1-ND	1.52	12.46	100.29	718-1067-2-ND	500	258.50	293D226X9016D2TE3
	C	33	±10%	5.3	6	1.1	0.32	718-1077-1-ND	1.31	10.96	80.45	718-1077-2-ND	500	210.00	293D336X9016C2TE3
	D	33	±10%	5.3	6	0.7	0.46	718-1078-1-ND	1.52	12.46	100.29	718-1078-2-ND	500	258.50	293D336X9016D2TE3
	C	47	±10%	7.5	6	1	0.33	718-1089-1-ND	1.40	11.67	85.63	718-1089-2-ND	500	223.50	293D476X9016C2TE3
	D	47	±20%	7.5	6	0.7	0.46	718-1086-1-ND	1.52	12.46	100.29	718-1086-2-ND	500	258.50	293D476X0016D2TE3
	D	47	±10%	7.5	6	0.7	0.46	718-1090-1-ND	1.52	12.46	100.29	718-1090-2-ND	500	258.50	293D476X9016D2TE3
	D	68	±10%	10.9	6	0.6	0.50	718-1096-1-ND	1.86	15.22	122.50	718-1096-2-ND	500	315.50	293D686X9016D2TE3
	D	100	±10%	16	8	0.6	0.50	718-1057-1-ND	2.42	19.88	160.02	718-1057-2-ND	500	412.00	293D107X9016D2TE3
	E	100	±10%	16	8	0.6	0.52	718-1023-1-ND	3.77	31.24	275.61	718-1023-2-ND	400	661.60	293D107X9016E2TE3
	D	150	±10%	24	8	0.6	0.50	718-1746-1-ND ***NEW!***	1.51	12.37	99.53	718-1746-2-ND ***NEW!***	500	256.50	293D157X9016D2TE3
	E	150	±10%	24	8	0.5	0..57	718-1825-1-ND ***NEW!***	4.04	35.93	325.64	718-1825-2-ND ***NEW!***	400	718.80	293D157X9016E2TE3
	E	220	±10%	35.2	14	0.5	0.57	718-1751-1-ND ***NEW!***	4.07	36.19	327.99	718-1751-2-ND ***NEW!***	400	724.00	293D227X9016E2TE3
20	A	1	±10%	0.5	4	8.4	0.09	718-1114-1-ND	.67	5.63	35.28	718-1114-2-ND	2,000	134.00/M	293D105X9020A2TE3
	A	2.2	±10%	0.5	6	5.9	0.11	718-1807-1-ND ***NEW!***	.67	5.63	35.28	718-1807-2-ND ***NEW!***	2,000	134.00/M	293D225X9020A2TE3
	B	2.2	±10%	0.5	6	3.5	0.16	718-1133-1-ND	.91	7.64	47.88	718-1133-2-ND	2,000	182.00/M	293D225X9020B2TE3
	A	4.7	±10%	0.9	6	5.0	0.12	718-1150-1-ND	.78	6.51	40.82	718-1150-2-ND	2,000	156.00/M	293D475X9020A2TE3
	B	4.7	±10%	0.9	6	2.9	0.17	718-1151-1-ND	.91	7.64	47.88	718-1151-2-ND	2,000	182.00/M	293D475X9020B2TE3
	C	4.7	±10%	0.9	6	2.3	0.22	718-1081-1-ND	1.08	9.16	62.21	718-1081-2-ND	500	164.00	293D475X9020C2TE3
	A	6.8	±10%	1.4	6	4.5	0.13	718-1741-1-ND ***NEW!***	.78	6.51	40.82	718-1741-2-ND ***NEW!***	2,000	156.00/M	293D685X9020A2TE3
	C	6.8	±10%	1.4	6	1.9	0.24	718-1092-1-ND	1.08	9.16	62.21	718-1092-2-ND	500	164.00	293D685X9020C2TE3
	B	10	±10%	2.0	6	2.5	0.18	718-1125-1-ND	1.09	9.22	62.64	718-1125-2-ND	2,000	261.00/M	293D106X9020B2TE3

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
20	C	10	±20%	2.0	6	1.7	0.25	718-1043-1-ND	1.08	9.16	62.21	718-1043-2-ND	500	164.00	293D106X0020C2TE3
	C	10	±10%	2.0	6	1.7	0.25	718-1049-1-ND	1.08	9.16	62.21	718-1049-2-ND	500	164.00	293D106X9020C2TE3
	C	15	±10%	3.0	6	1.5	0.27	718-1814-1-ND ***NEW!***	1.06	8.83	64.83	718-1814-2-ND ***NEW!***	500	169.00	293D156X9020C2TE3
	B	22	±10%	4.4	6	2.1	0.20	718-1742-1-ND ***NEW!***	1.03	8.57	62.93	718-1742-2-ND ***NEW!***	2,000	264.00/M	293D226X9020B2TE3
	C	22	±10%	4.4	6	1.1	0.32	718-1068-1-ND	1.31	10.96	80.45	718-1068-2-ND	500	210.00	293D226X9020C2TE3
	D	22	±20%	4.4	6	0.7	0.46	718-1063-1-ND	1.52	12.46	100.29	718-1063-2-ND	500	258.50	293D226X0020D2TE3
	D	22	±10%	4.4	6	0.7	0.46	718-1069-1-ND	1.52	12.46	100.29	718-1069-2-ND	500	258.50	293D226X9020D2TE3
	D	33	±10%	6.6	6	0.7	0.46	718-1079-1-ND	1.52	12.46	100.29	718-1079-2-ND	500	258.50	293D336X9020D2TE3
	D	47	±10%	9.4	6	0.7	0.46	718-1091-1-ND	1.86	15.22	122.50	718-1091-2-ND	500	315.50	293D476X9020D2TE3
	D	68	±10%	13.6	6	0.7	0.46	718-1823-1-ND ***NEW!***	2.42	19.88	160.02	718-1823-2-ND ***NEW!***	500	412.00	293D686X9020D2TE3
	E	68	±10%	13.6	6	0.6	0.52	718-1827-1-ND ***NEW!***	3.77	3.13	2.76	718-1827-2-ND ***NEW!***	400	661.60	293D686X9020E2TE3
	D	100	±10%	20	8	0.6	0.50	718-1744-1-ND ***NEW!***	1.52	12.43	100.04	718-1744-2-ND ***NEW!***	500	257.50	293D107X9020D2TE3
	E	100	±10%	20.0	8	0.5	0.57	718-1024-1-ND	4.04	35.93	325.64	718-1024-2-ND	400	718.80	293D107X9020E2TE3
25	A	0.47	±10%	0.5	4	12	0.08	718-1145-1-ND	.67	5.63	35.28	718-1145-2-ND	2,000	134.00/M	293D474X9025A2TE3
	A	1	±10%	0.5	4	7.6	0.10	718-1115-1-ND	.73	6.11	38.30	718-1115-2-ND	2,000	146.00/M	293D105X9025A2TE3
	A	1.5	±10%	0.5	6	6.7	0.11	718-1806-1-ND ***NEW!***	.78	6.51	40.82	718-1806-2-ND ***NEW!***	2,000	156.00/M	293D155X9025A2TE3
	B	1.5	±10%	0.5	6	4.6	0.14	718-1809-1-ND ***NEW!***	.91	7.64	47.88	718-1809-2-ND ***NEW!***	2,000	182.00/M	293D155X9025B2TE3
	A	2.2	±10%	0.6	6	6.3	0.11	718-1134-1-ND	.82	6.83	42.84	718-1134-2-ND	2,000	163.00/M	293D225X9025A2TE3
	B	2.2	±10%	0.6	6	3.8	0.15	718-1135-1-ND	.91	7.64	47.88	718-1135-2-ND	2,000	182.00/M	293D225X9025B2TE3
	B	4.7	±10%	1.2	6	2.8	0.17	718-1152-1-ND	1.03	8.57	62.93	718-1152-2-ND	2,000	264.00/M	293D475X9025B2TE3
	C	4.7	±10%	1.2	6	2	0.24	718-1082-1-ND	1.08	9.16	62.21	718-1082-2-ND	500	164.00	293D475X9025C2TE3
	C	6.8	±10%	1.7	6	1.7	0.25	718-1817-1-ND ***NEW!***	1.08	9.16	62.21	718-1817-2-ND ***NEW!***	500	164.00	293D685X9025C2TE3
	C	10	±20%	2.5	6	1.5	0.27	718-1044-1-ND	1.06	8.83	64.83	718-1044-2-ND	500	169.00	293D106X0025C2TE3
	C	10	±10%	2.5	6	1.5	0.27	718-1050-1-ND	1.06	8.83	64.83	718-1050-2-ND	500	169.00	293D106X9025C2TE3
	D	10	±20%	2.5	6	1.0	0.39	718-1045-1-ND	1.52	12.46	100.29	718-1045-2-ND	500	258.50	293D106X0025D2TE3
	D	10	±10%	2.5	6	1.0	0.39	718-1051-1-ND	1.52	12.46	100.29	718-1051-2-ND	500	258.50	293D106X9025D2TE3
	C	15	±10%	3.8	6	1.2	0.30	718-1815-1-ND ***NEW!***	1.31	10.96	80.45	718-1815-2-ND ***NEW!***	500	210.00	293D156X9025C2TE3
	D	15	±10%	3.8	6	0.8	0.43	718-1060-1-ND	1.52	12.46	100.29	718-1060-2-ND	500	258.50	293D156X9025D2TE3
	D	22	±20%	5.5	6	0.7	0.46	718-1064-1-ND	1.52	12.46	100.29	718-1064-2-ND	500	258.50	293D226X0025D2TE3
	D	22	±10%	5.5	6	0.7	0.46	718-1070-1-ND	1.52	12.46	100.29	718-1070-2-ND	500	258.50	293D226X9025D2TE3
	D	33	±10%	8.3	6	0.7	0.46	718-1080-1-ND	2.08	17.23	152.07	718-1080-2-ND	500	405.50	293D336X9025D2TE3
	E	33	±10%	8.3	6	0.6	0.52	718-1027-1-ND	4.04	35.93	325.64	718-1027-2-ND	400	718.80	293D336X9025E2TE3
	D	47	±10%	11.8	8	0.7	0.46	718-1748-1-ND ***NEW!***	2.20	18.07	145.46	718-1748-2-ND ***NEW!***	500	374.50	293D476X9025D2TE3
	E	47	±10%	11.8	6	0.6	0.52	718-1752-1-ND ***NEW!***	3.77	31.24	275.61	718-1752-2-ND ***NEW!***	400	661.60	293D476X9025E2TE3
35	A	0.10	±10%	0.5	4	20	0.06	718-1109-1-ND	.67	5.63	35.28	718-1109-2-ND	2,000	134.00/M	293D104X9035A2TE3
	A	0.33	±10%	0.5	4	13	0.08	718-1141-1-ND	.67	5.63	35.28	718-1141-2-ND	2,000	134.00/M	293D334X9035A2TE3
	A	0.47	±10%	0.5	4	10	0.09	718-1808-1-ND ***NEW!***	.73	6.11	38.30	718-1808-2-ND ***NEW!***	2,000	146.00/M	293D474X9035A2TE3
	A	1.0	±10%	0.5	4	7.5	0.10	718-1116-1-ND	.82	6.83	42.84	718-1116-2-ND	2,000	163.00/M	293D105X9035A2TE3
	B	1.0	±20%	0.5	4	5	0.13	718-1112-1-ND	.91	7.64	47.88	718-1112-2-ND	2,000	182.00/M	293D105X0035B2TE3
	B	1.0	±10%	0.5	4	5	0.13	718-1117-1-ND	.91	7.64	47.88	718-1117-2-ND	2,000	182.00/M	293D105X9035B2TE3
	C	1.5	±10%	0.5	6	3.8	0.17	718-1810-1-ND ***NEW!***	1.08	9.16	62.21	718-1810-2-ND ***NEW!***	500	164.00	293D155X9035C2TE3
	B	2.2	±10%	0.8	6	3.8	0.15	718-1136-1-ND	1.09	9.22	62.64	718-1136-2-ND	2,000	261.00/M	293D225X9035B2TE3
	C	2.2	±10%	0.8	6	2.9	0.20	718-1062-1-ND	1.08	9.16	62.21	718-1062-2-ND	500	164.00	293D225X9035C2TE3
	C	3.3	±10%	1.2	6	2.1	0.23	718-1074-1-ND	1.08	9.16	62.21	718-1074-2-ND	500	164.00	293D335X9035C2TE3
	C	4.7	±10%	1.6	6	1.9	0.24	718-1083-1-ND	1.06	8.83	64.83	718-1083-2-ND	500	169.00	293D475X9035C2TE3
	D	4.7	±10%	1.6	6	1.3	0.34	718-1084-1-ND	1.52	12.46	100.29	718-1084-2-ND	500	258.50	293D475X9035D2TE3
	C	6.8	±10%	2.4	6	1.8	0.25	718-1818-1-ND ***NEW!***	1.31	10.96	80.45	718-1818-2-ND ***NEW!***	500	210.00	293D685X9035C2TE3
	D	6.8	±10%	2.4	6	1.1	0.37	718-1093-1-ND	1.52	12.46	100.29	718-1093-2-ND	500	258.50	293D685X9035D2TE3
	C	10	±10%	3.5	6	1.6	0.26	718-1052-1-ND	1.31	10.96	80.45	718-1052-2-ND	500	210.00	293D106X9035C2TE3
	D	10	±20%	3.5	6	0.8	0.43	718-1046-1-ND	1.52	12.46	100.29	718-1046-2-ND	500	258.50	293D106X0035D2TE3
	D	10	±10%	3.5	6	0.8	0.43	718-1053-1-ND	1.52	12.46	100.29	718-1053-2-ND	500	258.50	293D106X9035D2TE3
	D	15	±10%	5.3	6	0.7	0.46	718-1061-1-ND	1.86	15.22	122.50	718-1061-2-ND	500	315.50	293D156X9035D2TE3
	D	22	±10%	7.7	6	0.6	0.52	718-1071-1-ND	1.86	15.22	122.50	718-1071-2-ND	500	315.50	293D226X9035D2TE3
	E	22	±10%	7.7	6	0.6	0.52	718-1025-1-ND	4.04	35.93	325.64	718-1025-2-ND	400	718.80	293D226X9035E2TE3
50	A	0.10	±10%	0.5	4	19	0.06	718-1110-1-ND	.84	7.08	44.35	718-1110-2-ND	2,000	169.00/M	293D104X9050A2TE3
	C	1	±10%	0.5	4	4.6	0.16	718-1041-1-ND	1.21	10.14	74.45	718-1041-2-ND	500	194.00	293D105X9050C2TE3
	C	1.5	±10%	0.8	6	3.4	0.18	718-1811-1-ND ***NEW!***	1.60	13.13	105.67	718-1811-2-ND ***NEW!***	500	272.00	293D155X9050C2TE3
	D	1.5	±10%	0.8	6	2.9	0.23	718-1820-1-ND ***NEW!***	1.90	15.60	125.57	718-1820-2-ND ***NEW!***	500	323.50	293D155X9050D2TE3
	D	2.2	±10%	1.1	6	2.1	0.27	718-1821-1-ND ***NEW!***	1.90	15.60	125.57	718-1821-2-ND ***NEW!***	500	323.50	293D225X9050D2TE3
	D	3.3	±10%	1.7	6	1.7	0.30	718-1822-1-ND ***NEW!***	1.90	15.60	125.57	718-1822-2-ND ***NEW!***	500	323.50	293D335X9050D2TE3
	D	4.7	±10%	2.4	6	1.2	0.37	718-1085-1-ND	2.13	17.63	155.55	718-1085-2-ND	500	415.00	293D475X9050D2TE3
	D	6.8	±10%	3.4	6	0.9	0.41	718-1094-1-ND	2.32	19.02	153.12	718-1094-2-ND	500	394.50	293D685X9050D2TE3
	E	10	±10%	5	6	0.8	0.45	718-1022-1-ND	5.05	44.92	407.04	718-1022-2-ND	400	898.40	293D106X9050E2TE3
	E	15	±20%	7.5	6	0.8	0.45	718-1750-1-ND ***NEW!***	3.64	30.16	266.10	718-1750-2-ND ***NEW!***	400	638.80	293D156X0050E2TE3
63	D	4.7	±10%	3.0	6	1.1	0.37	718-1711-1-ND ***NEW!***	5.97	56.10	497.64	718-1711-2-ND ***NEW!***	500	1266.50	293D475X9063D2TE3
	E	10	±10%	6.3	6	1.0	0.41	718-1712-1-ND ***NEW!***	7.46	70.12	622.05	718-1712-2-ND ***NEW!***	400	1357.20	293D106X9063E2TE3
593D Series															
6.3	D	220	±10%	13.2	8	0.100	1.22	718-1106-1-ND	4.18	37.12	336.40	718-1106-2-ND	500	841.00	593D227X96R3D2TE3
	E	330	±10%	19.8	8	0.100	1.28	718-1038-1-ND	7.81	73.07	629.88	718-1038-2-ND	400	1461.20	593D337X96R3E2TE3
10	D	100	±20%	10	6	0.100	1.22	718-1100-1-ND	3.64	30.17	266.22	718-1100-2-ND	500	710.00	593D107X0010D2TE3
	D	100	±10%	10	6	0.100	1.22	718-1101-1-ND	3.64	30.17	266.22	718-1101-2-ND	500	710.00	593D107X9010D2TE3
	D	220	±10%	22	8	0.125	1.10	718-1105-1-ND	4.58	40.72	369.03	718-1105-2-ND	500	922.50	593D227X9010D2TE3
	E	220	±20%	22	8	0.100	1.28	718-1034-1-ND	7.81	73.07	629.88	718-1034-2-ND	400	1461.20	593D227X0010E2TE3
	E	220	±10%	22	8	0.100	1.28	718-1035-1-ND	7.81	73.07	629.88	718-1035-2-ND	400	1461.20	593D227X9010E2TE3
16	C	10	±10%	1.6	6	0.450	0.49	718-1097-1-ND	2.11	17.27	138.96	718-1097-2-ND	500	358.00	593D106X9016C2TE3
	D	47	±10%	7.5	6	0.150	1.00	718-1108-1-ND	2.98	24.73	218.19	718-1108-2-ND	500	582.00	593D476X9016D2TE3
	D	100	±10%	16	8	0.125	1.10	718-1102-1-ND	4.18	37.12	336.40	718-1102-2-ND	500	841.00	593D107X9016D2TE3
	E	100	±10%	16	8	0.100	1.28	718-1030-1-ND	6.81	64.01	567.82	718-1030-2-ND	400	1238.80	593D107X9016E2TE3
20	E	47	±10%	7.5	4	0.150	1.05	718-1039-1-ND	6.81	64.01	567.82	718-1039-2-ND	400	1238.80	593D476X9020E2TE3
	E	68	±10%	13.6	6	0.150	1.05	718-1040-1-ND	6.81	64.01	567.82	718-1040-2-ND	400	1238.80	593D686X9020E2TE3
	E	100	±10%	20	8	0.150	1.05	718-1031-1-ND	7.81	73.07	629.88	718-1031-2-ND	400	1461.20	593D107X9020E2TE3
25	C	10	±10%	2.5	6	0.450	0.49	718-1098-1-ND	2.30	18.84	151.60	718-1098-2-ND	500	390.50	593D106X9025C2TE3
	D	22	±10%	5.5	6	0.200	0.87	718-1104-1-ND	2.98	24.73	218.19	718-1104-2-ND	500	582.00	593D226X9025D2TE3
	E	33	±20%	8.3	6	0.200	0.91	718-1036-1-ND	7.81	73.07	629.88	718-1036-2-ND	400	1461.20	593D336X0025E2TE3
	E	33	±10%	8.3	6	0.200	0.91	718-1037-1-ND	7.81	73.07	629.88	718-1037-2-ND	400	1461.20	593D336X9025E2TE3
35	D	10	±10%	3.5	6	0.300	0.71	718-1099-1-ND	2.98	24.73	218.19	718-1099-2-ND	500	582.00	593D106X9035D2TE3
	D	15	±10%	5.3	6	0.300	0.71	718-1103-1-ND	3.64	30.17	266.22	718-1103-2-ND	500	710.00	593D156X9035D2TE3
	E	22	±20%	7.7	6	0.275	0.77	718-1032-1-ND	7.81	73.07	629.88	718-1032-2-ND	400	1461.20	593D226X0035E2TE3
	E	22	±10%	7.7	6	0.275	0.77	718-1033-1-ND	7.81	73.07	629.88	718-1033-2-ND	400	1461.20	593D226X9035E2TE3
50	D	4.7	±10%	2.4	6	0.600	0.50	718-1107-1-ND	3.73	30.92	272.82	718-1107-2-ND	500	727.50	593D475X9050D2TE3
	E	10	±10%	5	6	0.550	0.55	718-1029-1-ND	9.76	91.33	787.35	718-1029-2-ND	400	1826.80	593D106X9050E2TE3

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Sprague

TANTAMOUNT® Low ESR Solid Tantalum Chip Capacitors — TR3 Series

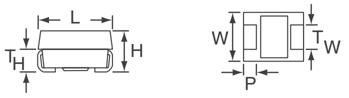

Features: • High ripple current carrying capability • Low ESR • Meets EIA 535BAAC and IEC specification QC300801/US0001 • 100% surge current tested (B, C, D and E case sizes) **Performance/Electrical Characteristics:** • Operating Temperature: -55°C ~ 85°C (to 125°C with voltage derating)

Case Code	EIA Size	Dimensions — mm L	W	H	P	TW	TH (Min.)
A	3216-18	3.2 ±0.20	1.6 ±0.20	1.6 ±0.20	0.80 ±0.30	1.2 ±0.10	0.70
B	3528-21	3.5 ±0.20	2.8 ±0.20	1.9 ±0.20	0.80 ±0.30	2.2 ±0.10	0.70
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
V	7343-20	7.3 ±0.30	4.3 ±0.30	2.0 Max.	1.3 ±0.30	2.4 ±0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
4	A	47	±10%	1.9	14	0.5	0.39	718-1306-1-ND	1.34	11.17	81.97	718-1306-2-ND	2,000	345.00/M	TR3A476K004C0500
	A	100	±10%	10.0	30	1.0	0.27	718-1451-1-ND	1.37	11.22	90.29	718-1451-2-ND	2,000	383.00/M	TR3A107K004C1000
	B	100	±10%	4.0	8	0.45	0.43	718-1834-1-ND ***NEW!***	1.23	10.26	75.35	718-1834-2-ND ***NEW!***	2,000	317.00/M	TR3B107K004C0450
	B	220	±20%	8.8	18	1.1	0.28	718-1453-1-ND	1.32	10.82	87.12	718-1453-2-ND	2,000	370.00/M	TR3B227M004C1100
	B	220	±20%	8.8	18	0.7	0.35	718-1454-1-ND	1.51	12.40	99.79	718-1454-2-ND	2,000	423.00/M	TR3B227M004C0700
	B	220	±20%	8.8	18	0.5	0.41	718-1455-1-ND	1.74	14.27	114.84	718-1455-2-ND	2,000	487.00/M	TR3B227M004C0500
	D	470	±10%	18.8	10	0.035	2.07	718-1857-1-ND ***NEW!***	4.22	37.53	340.11	718-1857-2-ND ***NEW!***	500	850.50	TR3D477K004C0035
	E	1000	±20%	40.0	20	0.1	1.28	718-1452-1-ND	5.88	55.27	490.30	718-1452-2-ND	400	1069.60	TR3E108M004C0100
6.3	A	10	±10%	0.6	6	1.5	0.22	718-1550-1-ND	1.04	8.84	60.05	718-1550-2-ND	2,000	250.00/M	TR3A106K6R3C1500
	A	15	±10%	0.9	6	1.0	0.27	718-1829-1-ND ***NEW!***	1.13	9.42	69.14	718-1829-2-ND ***NEW!***	2,000	291.00/M	TR3A156K6R3C1000
	A	33	±10%	2.0	14	0.6	0.35	718-1305-1-ND	1.04	8.84	60.05	718-1305-2-ND	2,000	250.00/M	TR3A336K6R3C0600
	B	33	±10%	2.0	6	0.6	0.38	718-1841-1-ND ***NEW!***	1.23	10.26	75.35	718-1841-2-ND ***NEW!***	2,000	317.00/M	TR3B336K6R3C0600
	A	47	±10%	2.8	12	0.8	0.31	718-1557-1-ND	1.28	10.66	78.25	718-1557-2-ND	2,000	329.00/M	TR3A476K6R3C0800
	C	47	±10%	2.8	6	0.25	0.66	718-1558-1-ND	1.49	12.18	98.01	718-1558-2-ND	500	252.50	TR3C476K6R3C0250
	B	68	±10%	4.1	6	0.5	0.41	718-1319-1-ND	1.36	11.34	83.21	718-1319-2-ND	2,000	350.00/M	TR3B686K6R3C0500
	B	68	±10%	4.1	6	0.25	0.58	718-1842-1-ND ***NEW!***	1.64	13.48	108.50	718-1842-2-ND ***NEW!***	2,000	460.00/M	TR3B686K6R3C0250
	C	68	±10%	4.1	6	0.2	0.74	718-1561-1-ND	1.95	16.03	129.00	718-1561-2-ND	500	332.50	TR3C686K6R3C0200
	B	100	±10%	6.0	15	0.5	0.41	718-1313-1-ND	1.36	11.34	83.21	718-1313-2-ND	2,000	350.00/M	TR3B107K6R3C0500
	B	100	±10%	6.0	15	0.4	0.46	718-1833-1-ND ***NEW!***	1.31	10.73	86.33	718-1833-2-ND ***NEW!***	2,000	366.00/M	TR3B107K6R3C0400
	C	100	±10%	6.0	6	0.15	0.86	718-1844-1-ND ***NEW!***	1.55	12.75	102.60	718-1844-2-ND ***NEW!***	500	264.50	TR3C107K6R3C0150
	C	100	±10%	6.0	6	0.3	0.61	718-1551-1-ND	1.62	13.32	107.18	718-1551-2-ND	500	276.00	TR3C107K6R3C0300
	C	100	±10%	6.0	6	0.125	0.94	718-1552-1-ND	1.76	14.41	116.00	718-1552-2-ND	500	299.00	TR3C107K6R3C0125
	V	100	±10%	6.0	8	0.2	0.79	718-1553-1-ND	2.84	23.55	207.75	718-1553-2-ND	1,000	970.00	TR3V107K6R3C0200
	V	100	±10%	6.0	8	0.15	0.91	718-1554-1-ND	2.84	23.55	207.75	718-1554-2-ND	1,000	970.00	TR3V107K6R3C0150
	D	150	±10%	9.0	8	0.05	1.73	718-1853-1-ND ***NEW!***	2.91	24.14	212.97	718-1853-2-ND ***NEW!***	500	568.00	TR3D157K6R3C0050
	C	220	±10%	13.9	14	0.225	0.70	718-1770-1-ND ***NEW!***	2.91	24.10	212.64	718-1770-2-ND ***NEW!***	500	567.00	TR3C227K6R3C0225
	D	220	±10%	13.2	8	0.05	1.73	718-1854-1-ND ***NEW!***	2.91	24.14	212.97	718-1854-2-ND ***NEW!***	500	568.00	TR3D227K6R3C0050
	D	220	±10%	13.2	8	0.1	1.22	718-1855-1-ND ***NEW!***	2.23	18.31	147.38	718-1855-2-ND ***NEW!***	500	379.50	TR3D227K6R3C0100
	D	330	±10%	19.8	8	0.125	1.10	718-1356-1-ND	2.48	20.36	163.85	718-1356-2-ND	500	422.00	TR3D337K6R3C0125
	D	330	±10%	19.8	8	0.1	1.22	718-1355-1-ND	2.15	17.79	156.96	718-1355-2-ND	500	418.50	TR3D337K6R3C0100
	D	330	±10%	19.8	8	0.06	1.58	718-1354-1-ND	2.64	21.93	193.50	718-1354-2-ND	500	516.00	TR3D337K6R3C0060
	D	330	±10%	19.8	8	0.045	1.83	718-1353-1-ND	3.56	29.50	260.31	718-1353-2-ND	500	694.00	TR3D337K6R3C0045
	D	330	±10%	19.8	8	0.035	2.07	718-1352-1-ND	4.07	33.72	297.54	718-1352-2-ND	500	793.50	TR3D337K6R3C0035
	D	330	±10%	19.8	8	0.05	1.73	718-1778-1-ND ***NEW!***	3.91	32.46	286.41	718-1778-2-ND ***NEW!***	500	764.00	TR3D337K6R3C0050
	E	330	±10%	19.8	8	0.1	1.28	718-1377-1-ND	3.33	27.61	243.60	718-1377-2-ND	400	584.80	TR3E337K6R3C0100
	D	470	±10%	28.2	14	0.1	1.22	718-1780-1-ND ***NEW!***	4.07	33.72	297.54	718-1780-2-ND ***NEW!***	500	793.50	TR3D477K6R3C0100
	D	470	±20%	28.2	14	0.2	0.87	718-1559-1-ND	3.05	25.32	223.41	718-1559-2-ND	500	596.00	TR3D477M6R3C0200
	D	470	±20%	28.2	14	0.15	1.00	718-1560-1-ND	3.35	27.76	244.98	718-1560-2-ND	500	653.50	TR3D477M6R3C0150
	E	470	±10%	28.2	10	0.1	1.28	718-1383-1-ND	3.65	32.48	294.35	718-1383-2-ND	400	649.60	TR3E477K6R3C0100
	E	470	±10%	28.2	10	0.065	1.59	718-1382-1-ND	4.02	35.71	323.61	718-1382-2-ND	400	714.00	TR3E477K6R3C0065
	E	470	±10%	28.2	10	0.05	1.82	718-1381-1-ND	5.02	47.18	418.52	718-1381-2-ND	400	913.20	TR3E477K6R3C0050
	E	680	±20%	40.8	20	0.1	1.28	718-1562-1-ND	4.02	35.71	323.61	718-1562-2-ND	400	714.00	TR3E687M6R3C0100
10	A	4.7	±10%	0.5	6	1.0	0.27	718-1478-1-ND	1.06	8.85	65.00	718-1478-2-ND	2,000	273.00/M	TR3A475K010C1000
	A	4.7	±10%	0.5	6	1.4	0.23	718-1757-1-ND ***NEW!***	1.01	8.44	52.92	718-1757-2-ND ***NEW!***	2,000	202.00/M	TR3A475K010C1400
	A	10	±10%	1.0	6	2.0	0.19	718-1300-1-ND	1.04	8.84	60.05	718-1300-2-ND	2,000	250.00/M	TR3A106K010C2000
	A	10	±10%	1.0	6	1.8	0.20	718-1458-1-ND	1.01	8.46	62.10	718-1458-2-ND	2,000	261.00/M	TR3A106K010C1800
	A	10	±10%	1.0	6	1.0	0.27	718-1459-1-ND	1.07	8.97	65.83	718-1459-2-ND	2,000	277.00/M	TR3A106K010C1000
	A	10	±10%	1.0	6	0.9	0.29	718-1460-1-ND	1.41	11.56	93.06	718-1460-2-ND	2,000	395.00/M	TR3A106K010C0900
	B	10	±10%	1.0	6	0.8	0.33	718-1461-1-ND	1.45	11.91	95.83	718-1461-2-ND	2,000	407.00/M	TR3B106K010C0800
	B	10	±10%	1.0	6	0.75	0.34	718-1462-1-ND	1.18	9.87	72.45	718-1462-2-ND	2,000	305.00/M	TR3B106K010C0750
	A	15	±10%	1.5	6	1.0	0.27	718-1302-1-ND	1.13	9.42	69.14	718-1302-2-ND	2,000	291.00/M	TR3A156K010C1000
	B	15	±10%	1.5	6	0.7	0.35	718-1836-1-ND ***NEW!***	1.01	8.46	62.10	718-1836-2-ND ***NEW!***	2,000	261.00/M	TR3B156K010C0700
	A	22	±10%	2.2	8	1.0	0.27	718-1304-1-ND	1.13	9.42	69.14	718-1304-2-ND	2,000	291.00/M	TR3A226K010C1000
	A	22	±10%	2.2	8	0.9	0.29	718-1472-1-ND	1.20	10.04	73.69	718-1472-2-ND	2,000	310.00/M	TR3A226K010C0900
	A	22	±10%	2.2	8	0.8	0.31	718-1473-1-ND	1.32	10.82	87.12	718-1473-2-ND	2,000	370.00/M	TR3A226K010C0800
	B	22	±10%	2.2	6	0.7	0.35	718-1314-1-ND	1.23	10.26	75.35	718-1314-2-ND	2,000	317.00/M	TR3B226K010C0700
	B	22	±10%	2.2	6	0.4	0.46	718-1474-1-ND	1.32	10.82	87.12	718-1474-2-ND	2,000	370.00/M	TR3B226K010C0400
	B	22	±10%	2.2	6	0.5	0.41	718-1839-1-ND ***NEW!***	1.31	10.73	86.33	718-1839-2-ND ***NEW!***	2,000	366.00/M	TR3B226K010C0500
	B	33	±10%	3.3	6	0.3	0.53	718-1766-1-ND ***NEW!***	1.28	10.72	78.66	718-1766-2-ND ***NEW!***	2,000	331.00/M	TR3B336K010C0300
	B	47	±10%	4.7	6	0.5	0.41	718-1318-1-ND	1.36	11.34	83.21	718-1318-2-ND	2,000	350.00/M	TR3B476K010C0500
	B	47	±10%	4.7	6	0.35	0.49	718-1768-1-ND ***NEW!***	1.26	10.33	83.16	718-1768-2-ND ***NEW!***	2,000	353.00/M	TR3B476K010C0350
	C	47	±10%	4.7	6	0.35	0.56	718-1772-1-ND ***NEW!***	1.68	13.74	110.62	718-1772-2-ND ***NEW!***	500	285.00	TR3C476K010C0350
	D	47	±10%	4.7	6	0.1	1.22	718-1359-1-ND	2.10	17.22	138.57	718-1359-2-ND	500	357.00	TR3D476K010C0100
	B	68	±10%	6.8	14	0.9	0.31	718-1482-1-ND	1.52	12.50	100.58	718-1482-2-ND	2,000	427.00/M	TR3B686K010C0900
	B	68	±10%	6.8	14	0.75	0.34	718-1483-1-ND	1.54	12.60	101.38	718-1483-2-ND	2,000	430.00/M	TR3B686K010C0750
	B	68	±10%	6.8	14	0.6	0.38	718-1484-1-ND	1.68	13.78	110.88	718-1484-2-ND	2,000	470.00/M	TR3B686K010C0600
	C	68	±10%	6.8	6	0.225	0.70	718-1485-1-ND	1.78	14.56	117.15	718-1485-2-ND	500	302.00	TR3C686K010C0225
	D	68	±10%	6.8	6	0.1	1.22	718-1782-1-ND ***NEW!***	2.10	17.22	138.57	718-1782-2-ND ***NEW!***	500	357.00	TR3D686K010C0100
	V	68	±10%	6.8	6	0.3	0.65	718-1486-1-ND	3.15	26.11	230.37	718-1486-2-ND	1,000	1075.00	TR3V686K010C0300
	V	68	±10%	6.8	6	0.2	0.79	718-1487-1-ND	3.15	26.11	230.37	718-1487-2-ND	1,000	1075.00	TR3V686K010C0200
	V	68	±10%	6.8	6	0.14	0.94	718-1488-1-ND	3.15	26.11	230.37	718-1488-2-ND	1,000	1075.00	TR3V686K010C0140
	V	68	±10%	6.8	6	0.1	1.12	718-1489-1-ND	3.15	26.11	230.37	718-1489-2-ND	1,000	1075.00	TR3V686K010C0100
	B	100	±20%	10.0	25	1.4	0.25	718-1761-1-ND ***NEW!***	1.54	12.60	101.38	718-1761-2-ND ***NEW!***	2,000	430.00/M	TR3B107M010C1400
	C	100	±10%	10.0	8	0.2	0.74	718-1325-1-ND	1.41	11.56	93.03	718-1325-2-ND	500	239.50	TR3C107K010C0200
	C	100	±10%	10.0	8	0.15	0.86	718-1463-1-ND	1.73	14.22	114.44	718-1463-2-ND	500	295.00	TR3C107K010C0150
	C	100	±10%	10.0	8	0.1	1.05	718-1324-1-ND	1.55	12.75	102.60	718-1324-2-ND	500	264.50	TR3C107K010C0100
	D	100	±10%	10.0	6	0.1	1.22	718-1338-1-ND	1.75	14.32	115.24	718-1338-2-ND	500	297.00	TR3D107K010C0100
	D	100	±10%	10.0	6	0.08	1.37	718-1337-1-ND	1.93	15.79	127.08	718-1337-2-ND	500	327.50	TR3D107K010C0080
	D	100	±10%	10.0	6	0.065	1.52	718-1336-1-ND	2.19	17.93	144.31	718-1336-2-ND	500	371.50	TR3D107K010C0065
	D	100	±10%	10.0	6	0.05	1.73	718-1464-1-ND	3.12	25.91	228.63	718-1464-2-ND	500	609.50	TR3D107K010C0050
	E	100	±10%	10.0	6	0.1	1.28	718-1784-1-ND ***NEW!***	2.84	23.55	207.75	718-1784-2-ND ***NEW!***	400	498.80	TR3E107K010C0100
	V	100	±10%	10.0	8	0.4	0.56	718-1465-1-ND	2.83	23.47	207.06	718-1465-2-ND	1,000	966.00	TR3V107K010C0400
	V	100	±10%	10.0	8	0.2	0.79	718-1466-1-ND	2.84	23.55	207.75	718-1466-2-ND	1,000	970.00	TR3V107K010C0200
	V	100	±10%	10.0	8	0.15	0.91	718-1467-1-ND	3.66	30.37	267.96	718-1467-2-ND	1,000	1250.00	TR3V107K010C0150

(Continued)

TANTAMOUNT® Low ESR Solid Tantalum Chip Capacitors — TR3 Series *(Cont.)*

Rated Voltage (V)	Case Code	Capaci-tance (µF)	Capaci-tance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
									1	10	100		Qty.	Pricing	
10	D	150	±10%	15.0	8	0.1	1.22	718-1344-1-ND	2.44	19.98	160.78	718-1344-2-ND	500	414.00	TR3D157K010C0100
	D	150	±10%	15.0	8	0.05	1.73	718-1342-1-ND	3.61	29.90	263.79	718-1342-2-ND	500	703.50	TR3D157K010C0050
	E	150	±10%	15.0	8	0.08	1.44	718-1471-1-ND	3.70	30.64	270.39	718-1471-2-ND	400	648.80	TR3E157K010C0080
	D	220	±10%	22.0	8	0.125	1.10	718-1349-1-ND	2.40	19.92	175.74	718-1349-2-ND	500	468.50	TR3D227K010C0125
	D	220	±10%	22.0	8	0.1	1.22	718-1348-1-ND	2.64	21.93	193.50	718-1348-2-ND	500	516.00	TR3D227K010C0100
	D	220	±10%	22.0	8	0.05	1.73	718-1347-1-ND	3.69	32.81	297.37	718-1347-2-ND	500	743.50	TR3D227K010C0050
	D	220	±10%	22.0	8	0.15	1.0	718-1777-1-ND ***NEW!***	2.07	17.16	151.38	718-1777-2-ND ***NEW!***	500	403.50	TR3D227K010C0150
	E	220	±10%	22.0	8	0.07	1.54	718-1787-1-ND ***NEW!***	3.88	34.45	312.19	718-1787-2-ND ***NEW!***	400	688.80	TR3E227K010C0070
	D	330	±20%	33.0	15	0.15	1.00	718-1475-1-ND	5.13	45.62	413.42	718-1475-2-ND	500	1033.50	TR3D337M010C0150
	D	330	±20%	33.0	15	0.125	1.10	718-1476-1-ND	4.07	36.19	327.99	718-1476-2-ND	500	820.00	TR3D337M010C0125
	D	330	±20%	33.0	15	0.1	1.22	718-1477-1-ND	4.25	37.79	342.46	718-1477-2-ND	500	856.00	TR3D337M010C0100
	E	330	±10%	33.0	10	0.1	1.28	718-1376-1-ND	4.07	33.72	297.54	718-1376-2-ND	400	714.00	TR3E337K010C0100
	E	330	±10%	33.0	10	0.06	1.66	718-1375-1-ND	4.87	43.28	392.25	718-1375-2-ND	400	865.60	TR3E337K010C0060
	E	470	±20%	47.0	15	0.2	0.91	718-1479-1-ND	4.84	43.06	390.22	718-1479-2-ND	400	861.20	TR3E477M010C0200
	E	470	±20%	47.0	15	0.15	1.05	718-1480-1-ND	4.28	38.01	344.46	718-1480-2-ND	400	760.00	TR3E477M010C0150
	E	470	±20%	47.0	15	0.1	1.28	718-1481-1-ND	4.32	38.38	347.83	718-1481-2-ND	400	767.60	TR3E477M010C0100
16	A	4.7	±10%	0.8	6	2.0	0.19	718-1503-1-ND	.98	8.27	56.16	718-1503-2-ND	2,000	234.00/M	TR3A475K016C2000
	A	4.7	±10%	0.8	6	1.5	0.22	718-1758-1-ND ***NEW!***	.86	7.31	49.68	718-1758-2-ND ***NEW!***	2,000	207.00/M	TR3A475K016C1500
	A	6.8	±10%	1.1	6	3.0	0.16	718-1307-1-ND	1.04	8.84	60.05	718-1307-2-ND	2,000	250.00/M	TR3A685K016C3000
	A	6.8	±10%	1.1	6	1.5	0.22	718-1759-1-ND ***NEW!***	1.22	10.15	74.52	718-1759-2-ND ***NEW!***	2,000	313.00/M	TR3A685K016C1500
	A	10	±10%	1.6	6	1.7	0.21	718-1301-1-ND	1.04	8.84	60.05	718-1301-2-ND	2,000	250.00/M	TR3A106K016C1700
	B	10	±10%	1.6	6	0.8	0.33	718-1310-1-ND	1.01	8.46	62.10	718-1310-2-ND	2,000	261.00/M	TR3B106K016C0800
	B	10	±10%	1.6	6	0.5	0.41	718-1490-1-ND	1.24	10.38	76.18	718-1490-2-ND	2,000	320.00/M	TR3B106K016C0500
	C	10	±10%	1.6	6	0.45	0.49	718-1320-1-ND	1.27	10.58	77.63	718-1320-2-ND	500	202.50	TR3C106K016C0450
	B	15	±10%	2.4	6	0.8	0.33	718-1837-1-ND ***NEW!***	1.23	10.26	75.35	718-1837-2-ND ***NEW!***	2,000	317.00/M	TR3B156K016C0800
	B	22	±10%	3.5	6	0.6	0.38	718-1497-1-ND	1.45	11.86	95.44	718-1497-2-ND	2,000	405.00/M	TR3B226K016C0600
	C	22	±10%	3.5	6	0.35	0.56	718-1849-1-ND ***NEW!***	1.27	10.41	83.82	718-1849-2-ND ***NEW!***	500	216.00	TR3C226K016C0350
	B	33	±10%	5.3	6	0.7	0.35	718-1316-1-ND	1.35	11.28	82.80	718-1316-2-ND	2,000	348.00/M	TR3B336K016C0700
	B	33	±10%	5.3	6	0.5	0.41	718-1501-1-ND	1.52	12.50	100.58	718-1501-2-ND	2,000	427.00/M	TR3B336K016C0500
	B	33	±10%	5.3	6	0.35	0.49	718-1502-1-ND	1.48	12.15	97.81	718-1502-2-ND	2,000	415.00/M	TR3B336K016C0350
	C	33	±10%	5.3	6	0.3	0.61	718-1328-1-ND	1.41	11.56	93.03	718-1328-2-ND	500	239.50	TR3C336K016C0300
	D	33	±10%	5.3	6	0.15	1.00	718-1350-1-ND	1.93	15.79	127.08	718-1350-2-ND	500	327.50	TR3D336K016C0150
	C	47	±10%	7.5	6	0.3	0.61	718-1332-1-ND	1.41	11.56	93.03	718-1332-2-ND	500	239.50	TR3C476K016C0300
	D	47	±10%	7.5	6	0.15	1.00	718-1361-1-ND	1.75	14.32	115.24	718-1361-2-ND	500	297.00	TR3D476K016C0150
	D	47	±10%	7.5	6	0.1	1.22	718-1360-1-ND	2.10	17.22	138.57	718-1360-2-ND	500	357.00	TR3D476K016C0100
	D	68	±10%	10.9	6	0.07	1.46	718-1859-1-ND ***NEW!***	2.91	24.14	212.97	718-1859-2-ND ***NEW!***	500	568.00	TR3D686K016C0070
	D	68	±10%	10.9	6	0.15	1.00	718-1365-1-ND	2.03	16.65	133.98	718-1365-2-ND	500	345.00	TR3D686K016C0150
	D	100	±10%	16.0	8	0.15	1.00	718-1491-1-ND	2.10	17.39	153.48	718-1491-2-ND	500	409.50	TR3D107K016C0150
	D	100	±10%	16.0	8	0.125	1.10	718-1340-1-ND	2.23	18.31	147.38	718-1340-2-ND	500	379.50	TR3D107K016C0125
	D	100	±10%	16.0	8	0.1	1.22	718-1339-1-ND	2.15	17.79	156.96	718-1339-2-ND	500	418.50	TR3D107K016C0100
	D	100	±10%	16.0	8	0.075	1.41	718-1773-1-ND ***NEW!***	3.76	33.45	303.11	718-1773-2-ND ***NEW!***	500	758.00	TR3D107K016C0075
	E	100	±10%	16.0	8	0.1	1.28	718-1369-1-ND	3.33	27.61	243.60	718-1369-2-ND	400	584.80	TR3E107K016C0100
	D	150	±10%	24.0	8	0.15	1.0	718-1492-1-ND	2.47	20.47	180.60	718-1492-2-ND	500	481.50	TR3D157K016C0150
	D	150	±10%	24.0	8	0.125	1.10	718-1493-1-ND	2.53	20.98	185.13	718-1493-2-ND	500	493.50	TR3D157K016C0125
	D	150	±10%	24.0	8	0.1	1.22	718-1494-1-ND	4.00	33.21	293.01	718-1494-2-ND	500	781.50	TR3D157K016C0100
	D	150	±10%	24.0	8	0.06	1.58	718-1775-1-ND ***NEW!***	3.88	34.45	312.19	718-1775-2-ND ***NEW!***	500	780.50	TR3D157K016C0060
	E	150	±10%	24.0	8	0.075	1.48	718-1495-1-ND	4.57	40.65	368.36	718-1495-2-ND	400	812.80	TR3E157K016C0075
	E	220	±10%	35.2	14	0.15	1.05	718-1498-1-ND	3.97	32.93	290.58	718-1498-2-ND	400	697.20	TR3E227K016C0150
	E	220	±10%	35.2	14	0.125	1.15	718-1499-1-ND	3.76	33.41	302.76	718-1499-2-ND	400	668.00	TR3E227K016C0125
	E	220	±10%	35.2	14	0.1	1.28	718-1500-1-ND	4.08	36.30	329.01	718-1500-2-ND	400	726.00	TR3E227K016C0100
20	A	1	±10%	0.5	4	3.0	0.16	718-1828-1-ND ***NEW!***	1.17	9.76	71.62	718-1828-2-ND ***NEW!***	2,000	301.00/M	TR3A105K020C3000
	A	2.2	±10%	0.5	6	3.0	0.16	718-1756-1-ND ***NEW!***	1.28	10.72	78.66	718-1756-2-ND ***NEW!***	2,000	331.00/M	TR3A225K020C3000
	A	4.7	±10%	0.9	6	1.8	0.2	718-1830-1-ND ***NEW!***	1.25	10.28	82.76	718-1830-2-ND ***NEW!***	2,000	351.00/M	TR3A475K020C1800
	A	6.8	±10%	1.4	6	3.2	0.15	718-1308-1-ND	1.04	8.69	63.76	718-1308-2-ND	2,000	268.00/M	TR3A685K020C3200
	A	6.8	±10%	1.4	6	2.6	0.17	718-1832-1-ND ***NEW!***	1.24	10.38	76.18	718-1832-2-ND ***NEW!***	2,000	320.00/M	TR3A685K020C2600
	B	10	±10%	2.0	6	1.0	0.29	718-1311-1-ND	1.23	10.26	75.35	718-1311-2-ND	2,000	317.00/M	TR3B106K020C1000
	C	10	±10%	2.0	6	0.45	0.49	718-1321-1-ND	1.27	10.41	83.82	718-1321-2-ND	500	216.00	TR3C106K020C0450
	B	15	±10%	3.0	6	1.0	0.29	718-1838-1-ND ***NEW!***	1.35	11.28	82.80	718-1838-2-ND ***NEW!***	2,000	348.00/M	TR3B156K020C1000
	B	22	±10%	4.4	6	0.8	0.33	718-1315-1-ND	1.64	13.48	108.50	718-1315-2-ND	2,000	460.00/M	TR3B226K020C0800
	B	22	±10%	4.4	6	0.4	0.46	718-1764-1-ND ***NEW!***	1.86	15.25	122.76	718-1764-2-ND ***NEW!***	2,000	521.00/M	TR3B226K020C0400
	B	22	±10%	4.4	6	0.6	0.38	718-1840-1-ND ***NEW!***	1.97	16.19	130.28	718-1840-2-ND ***NEW!***	2,000	553.00/M	TR3B226K020C0600
	C	22	±10%	4.4	6	0.375	0.54	718-1327-1-ND	1.52	12.46	100.29	718-1327-2-ND	500	258.50	TR3C226K020C0375
	C	33	±10%	6.6	6	0.35	0.56	718-1329-1-ND	1.65	13.51	108.70	718-1329-2-ND	500	280.00	TR3C336K020C0350
	C	33	±10%	6.6	6	0.3	0.60	718-1506-1-ND	1.82	14.89	119.82	718-1506-2-ND	500	308.50	TR3C336K020C0300
	C	33	±10%	6.6	6	0.2	0.74	718-1507-1-ND	2.08	17.03	137.05	718-1507-2-ND	500	353.00	TR3C336K020C0200
	D	33	±10%	6.6	6	0.2	0.87	718-1351-1-ND	1.75	14.32	115.24	718-1351-2-ND	500	297.00	TR3D336K020C0200
	D	47	±10%	9.4	6	0.15	1.00	718-1363-1-ND	2.44	19.98	160.78	718-1363-2-ND	500	414.00	TR3D476K020C0150
	D	47	±10%	9.4	6	0.1	1.22	718-1362-1-ND	2.91	24.14	212.97	718-1362-2-ND	500	568.00	TR3D476K020C0100
	D	68	±10%	13.6	6	0.15	1.00	718-1366-1-ND	2.37	19.68	173.64	718-1366-2-ND	500	463.00	TR3D686K020C0150
	D	68	±10%	13.6	6	0.115	1.14	718-1860-1-ND ***NEW!***	3.56	29.50	260.31	718-1860-2-ND ***NEW!***	500	694.00	TR3D686K020C0115
	E	68	±10%	13.6	6	0.15	1.05	718-1384-1-ND	3.70	30.64	270.39	718-1384-2-ND	400	648.80	TR3E686K020C0150
	E	68	±10%	13.6	6	0.12	1.17	718-1790-1-ND ***NEW!***	3.70	30.64	270.39	718-1790-2-ND ***NEW!***	400	648.80	TR3E686K020C0120
	D	100	±10%	20.0	8	0.08	1.37	718-1774-1-ND ***NEW!***	4.64	41.28	374.07	718-1774-2-ND ***NEW!***	500	935.00	TR3D107K020C0080
	E	100	±10%	20.0	8	0.15	1.05	718-1370-1-ND	4.07	33.72	297.54	718-1370-2-ND	400	714.00	TR3E107K020C0150
	E	100	±10%	20.0	8	0.1	1.28	718-1505-1-ND	5.20	46.21	418.82	718-1505-2-ND	400	924.40	TR3E107K020C0100
25	A	1	±10%	0.5	4	4.0	0.14	718-1299-1-ND	.87	7.38	50.11	718-1299-2-ND	2,000	209.00/M	TR3A105K025C4000
	A	1.5	±10%	0.5	6	3.0.	0.16	718-1755-1-ND ***NEW!***	1.28	10.72	78.66	718-1755-2-ND ***NEW!***	2,000	331.00/M	TR3A155K025C3000
	A	2.2	±10%	0.6	6	4.0	0.14	718-1303-1-ND	1.04	8.84	60.05	718-1303-2-ND	2,000	250.00/M	TR3A225K025C4000
	A	3.3	±10%	0.8	6	3.5	0.15	718-1520-1-ND	1.15	9.64	70.79	718-1520-2-ND	2,000	298.00/M	TR3A335K025C3500
	A	3.3	±10%	0.8	6	3.0	0.16	718-1521-1-ND	1.35	11.28	82.80	718-1521-2-ND	2,000	348.00/M	TR3A335K025C3000
	A	4.7	±10%	1.2	6	3.0	0.16	718-1831-1-ND ***NEW!***	1.51	12.40	99.79	718-1831-2-ND ***NEW!***	2,000	423.00/M	TR3A475K025C3000
	B	4.7	±10%	1.2	6	1.5	0.24	718-1317-1-ND	1.11	9.31	68.31	718-1317-2-ND	2,000	287.00/M	TR3B475K025C1500
	C	4.7	±10%	1.2	6	0.525	0.46	718-1330-1-ND	1.27	10.41	83.82	718-1330-2-ND	500	216.00	TR3C475K025C0525
	B	6.8	±10%	1.7	6	0.7	0.35	718-1528-1-ND	1.48	12.15	97.81	718-1528-2-ND	2,000	415.00/M	TR3B685K025C0700
	B	10	±10%	2.5	6	1.1	0.28	718-1312-1-ND	1.97	16.19	130.28	718-1312-2-ND	2,000	553.00/M	TR3B106K025C1100
	B	10	±10%	2.5	6	0.45	0.43	718-1760-1-ND ***NEW!***	1.75	14.37	115.63	718-1760-2-ND ***NEW!***	2,000	491.00/M	TR3B106K025C0450
	C	10	±10%	2.5	6	0.45	0.49	718-1322-1-ND	1.40	11.46	92.27	718-1322-2-ND	500	237.50	TR3C106K025C0450
	C	10	±10%	2.5	6	0.5	0.47	718-1769-1-ND ***NEW!***	1.40	11.46	92.27	718-1769-2-ND ***NEW!***	500	237.50	TR3C106K025C0500
	B	15	±10%	3.8	6	0.6	0.38	718-1762-1-ND ***NEW!***	1.52	12.50	100.58	718-1762-2-ND ***NEW!***	2,000	427.00/M	TR3B156K025C0600
	C	15	±10%	3.8	6	0.425	0.51	718-1326-1-ND	1.52	12.46	100.29	718-1326-2-ND	500	258.50	TR3C156K025C0425
	C	22	±10%	5.5	6	0.425	0.51	718-1510-1-ND	2.12	17.41	140.12	718-1510-2-ND	500	361.00	TR3C226K025C0425
	C	22	±10%	5.5	6	0.4	0.52	718-1511-1-ND	2.15	17.65	142.03	718-1511-2-ND	500	366.00	TR3C226K025C0400
	C	22	±10%	5.5	6	0.3	0.61	718-1512-1-ND	1.95	16.03	129.00	718-1512-2-ND	500	332.50	TR3C226K025C0300
	C	22	±10%	5.5	6	0.275	0.63	718-1513-1-ND	2.19	17.98	144.71	718-1513-2-ND	500	372.50	TR3C226K025C0275
	C	22	±10%	5.5	6	0.25	0.66	718-1514-1-ND	2.85	23.62	208.44	718-1514-2-ND	500	556.00	TR3C226K025C0250
	D	22	±10%	5.5	6	0.2	0.87	718-1345-1-ND	2.03	16.65	133.98	718-1345-2-ND	500	345.00	TR3D226K025C0200
	E	22	±10%	5.5	6	0.2	0.91	718-1786-1-ND ***NEW!***	4.07	33.72	297.54	718-1786-2-ND ***NEW!***	400	714.00	TR3E226K025C0200

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
									1	10	100		Qty.	Pricing	
25	V	22	±10%	5.5	6	0.5	0.5	718-1517-1-ND	3.03	25.16	222.03	718-1517-2-ND	1,000	1036.00	TR3V226K025C0500
	V	22	±10%	5.5	6	0.4	0.56	718-1518-1-ND	3.03	25.16	222.03	718-1518-2-ND	1,000	1036.00	TR3V226K025C0400
	V	22	±10%	5.5	6	0.25	0.71	718-1519-1-ND	4.81	42.73	387.21	718-1519-2-ND	1,000	1803.00	TR3V226K025C0250
	D	33	±10%	8.3	6	0.2	0.87	718-1856-1-ND ***NEW!***	2.03	16.65	133.98	718-1856-2-ND ***NEW!***	500	345.00	TR3D336K025C0200
	E	33	±10%	8.3	6	0.2	0.91	718-1374-1-ND	1.87	12.65	101.20	—	—	—	TR3E336K025C0200
	D	47	±10%	11.8	8	0.25	0.77	718-1524-1-ND	3.03	25.16	222.03	718-1524-2-ND	500	592.00	TR3D476K025C0250
	D	47	±10%	11.8	8	0.15	1.0	718-1525-1-ND	2.43	20.16	177.84	718-1525-2-ND	500	474.00	TR3D476K025C0150
	D	47	±10%	11.8	8	0.1	1.22	718-1526-1-ND	3.70	30.64	270.39	718-1526-2-ND	500	721.00	TR3D476K025C0100
	E	47	±10%	11.8	6	0.2	0.91	718-1380-1-ND	3.70	30.64	270.39	718-1380-2-ND	400	648.80	TR3E476K025C0200
	E	47	±10%	11.8	8	0.15	1.05	718-1527-1-ND	4.14	36.79	333.38	718-1527-2-ND	400	735.60	TR3E476K025C0150
35	A	1.0	±10%	0.5	4	3.0	0.16	718-1531-1-ND	1.23	10.26	75.35	718-1531-2-ND	2,000	317.00/M	TR3A105K035C3000
	B	1.5	±10%	0.5	6	2.0	0.21	718-1835-1-ND ***NEW!***	1.01	8.46	62.10	718-1835-2-ND ***NEW!***	2,000	261.00/M	TR3B155K035C2000
	C	1.5	±10%	0.5	6	0.9	0.35	718-1845-1-ND ***NEW!***	1.27	10.41	83.82	718-1845-2-ND ***NEW!***	500	216.00	TR3C155K035C0900
	B	2.2	±10%	0.8	6	1.5	0.24	718-1763-1-ND ***NEW!***	1.38	11.32	91.08	718-1763-2-ND ***NEW!***	2,000	386.00/M	TR3B225K035C1500
	C	2.2	±10%	0.8	6	0.9	0.35	718-1847-1-ND ***NEW!***	1.27	10.41	83.82	718-1847-2-ND ***NEW!***	500	216.00	TR3C225K035C0900
	B	3.3	±10%	1.2	6	1.0	0.29	718-1765-1-ND ***NEW!***	1.28	10.72	78.66	718-1765-2-ND ***NEW!***	2,000	331.00/M	TR3B335K035C1000
	B	4.7	±10%	1.6	6	0.7	0.35	718-1767-1-ND ***NEW!***	1.79	14.66	118.01	718-1767-2-ND ***NEW!***	2,000	501.00/M	TR3B475K035C0700
	C	4.7	±10%	1.6	6	0.6	0.43	718-1771-1-ND ***NEW!***	1.41	11.56	93.03	718-1771-2-ND ***NEW!***	500	239.50	TR3C475K035C0600
	C	4.7	±10%	1.6	6	0.5	0.47	718-1331-1-ND	1.41	11.56	93.03	718-1331-2-ND	500	239.50	TR3C475K035C0500
	D	4.7	±10%	1.6	6	0.7	0.46	718-1779-1-ND ***NEW!***	2.09	17.12	137.81	718-1779-2-ND ***NEW!***	500	355.00	TR3D475K035C0700
	C	6.8	±10%	2.4	6	0.475	0.48	718-1851-1-ND ***NEW!***	1.52	12.46	100.29	718-1851-2-ND ***NEW!***	500	258.50	TR3C685K035C0475
	D	6.8	±10%	2.4	6	0.3	0.71	718-1858-1-ND ***NEW!***	1.75	14.32	115.24	718-1858-2-ND ***NEW!***	500	297.00	TR3D685K035C0300
	E	6.8	±10%	1.9	4	0.3	0.74	718-1789-1-ND ***NEW!***	3.36	27.90	246.17	718-1789-2-ND ***NEW!***	400	590.80	TR3E685K035C0300
	C	10	±10%	3.5	6	0.45	0.49	718-1323-1-ND	1.52	12.46	100.29	718-1323-2-ND	500	258.50	TR3C106K035C0450
	D	10	±10%	3.5	6	0.3	0.71	718-1334-1-ND	1.75	14.32	115.24	718-1334-2-ND	500	297.00	TR3D106K035C0300
	D	10	±10%	3.5	6	0.25	0.77	718-1333-1-ND	1.93	15.79	127.08	718-1333-2-ND	500	327.50	TR3D106K035C0250
	D	10	±10%	3.5	6	0.135	1.05	718-1533-1-ND	3.61	29.90	263.79	718-1533-2-ND	500	703.50	TR3D106K035C0135
	D	10	±10%	3.5	6	0.125	1.10	718-1534-1-ND	3.70	30.69	270.75	718-1534-2-ND	500	722.00	TR3D106K035C0125
	E	10	±10%	3.5	6	0.2	0.91	718-1783-1-ND ***NEW!***	4.00	33.21	293.01	718-1783-2-ND ***NEW!***	400	703.20	TR3E106K035C0200
	D	15	±10%	5.3	6	0.3	0.71	718-1341-1-ND	2.03	16.65	133.98	718-1341-2-ND	500	345.00	TR3D156K035C0300
	D	15	±10%	5.3	6	0.225	0.82	718-1535-1-ND	2.97	24.65	217.50	718-1535-2-ND	500	580.00	TR3D156K035C0225
	D	15	±10%	5.3	6	0.15	1.00	718-1536-1-ND	2.97	24.65	217.50	718-1536-2-ND	500	580.00	TR3D156K035C0150
	E	15	±10%	5.3	6	0.15	1.05	718-1538-1-ND	3.93	32.62	287.79	718-1538-2-ND	400	690.80	TR3E156K035C0150
	D	22	±10%	7.7	6	0.3	0.71	718-1346-1-ND	2.44	20.27	178.86	718-1346-2-ND	500	477.00	TR3D226K035C0300
	D	22	±10%	7.7	6	0.275	0.74	718-1539-1-ND	3.56	29.50	260.31	718-1539-2-ND	500	694.00	TR3D226K035C0275
	D	22	±10%	7.7	6	0.250	0.77	718-1540-1-ND	3.79	33.67	305.11	718-1540-2-ND	500	763.00	TR3D226K035C0250
	D	22	±10%	7.7	6	0.2	0.87	718-1541-1-ND	3.79	33.67	305.11	718-1541-2-ND	500	763.00	TR3D226K035C0200
	D	22	±10%	7.7	6	0.4	0.61	718-1776-1-ND ***NEW!***	2.44	20.27	178.86	718-1776-2-ND ***NEW!***	500	477.00	TR3D226K035C0400
	E	22	±10%	7.7	6	0.275	0.77	718-1371-1-ND	3.33	27.61	243.60	718-1371-2-ND	400	584.80	TR3E226K035C0275
	E	22	±10%	7.7	6	0.200	0.91	718-1516-1-ND	3.89	34.56	313.20	718-1516-2-ND	400	691.20	TR3E226K035C0200
50	B	1	±10%	0.5	4	2.0	0.21	718-1309-1-ND	2.15	17.66	142.16	718-1309-2-ND	2,000	603.00/M	TR3B105K050C2000
	C	1	±10%	0.5	4	1.6	0.26	718-1843-1-ND ***NEW!***	1.97	16.17	130.15	718-1843-2-ND ***NEW!***	500	335.00	TR3C105K050C1600
	C	1.5	±10%	0.8	6	1.5	0.27	718-1846-1-ND ***NEW!***	2.17	17.79	143.15	718-1846-2-ND ***NEW!***	500	368.50	TR3C155K050C1500
	B	2.2	±10%	1.1	6	2.0	0.21	718-1545-1-ND	2.36	19.58	172.80	718-1545-2-ND	2,000	778.00/M	TR3B225K050C2000
	C	2.2	±10%	1.1	6	1.5	0.27	718-1848-1-ND ***NEW!***	2.47	20.21	162.69	718-1848-2-ND ***NEW!***	500	419.00	TR3C225K050C1500
	C	3.3	±10%	1.7	6	1.5	0.27	718-1850-1-ND ***NEW!***	2.60	21.57	190.35	718-1850-2-ND ***NEW!***	500	507.50	TR3C335K050C1500
	C	4.7	±10%	2.4	6	1.0	0.33	718-1546-1-ND	3.03	25.16	222.03	718-1546-2-ND	500	592.00	TR3C475K050C1000
	C	4.7	±10%	2.4	6	0.7	0.40	718-1547-1-ND	2.93	24.33	214.71	718-1547-2-ND	500	572.50	TR3C475K050C0700
	C	4.7	±10%	2.4	6	0.5	0.47	718-1548-1-ND	3.18	26.35	232.47	718-1548-2-ND	500	620.00	TR3C475K050C0500
	D	4.7	±10%	2.4	6	0.6	0.5	718-1358-1-ND	2.85	23.62	208.44	718-1358-2-ND	500	556.00	TR3D475K050C0600
	D	4.7	±10%	2.4	6	0.3	0.71	718-1357-1-ND	3.75	33.33	302.09	718-1357-2-ND	500	755.00	TR3D475K050C0300
	E	4.7	±10%	1.9	4	0.3	0.74	718-1378-1-ND	5.35	50.24	445.64	718-1378-2-ND	400	972.40	TR3E475K050C0300
	D	6.8	±10%	3.4	6	0.5	0.55	718-1364-1-ND	3.58	29.70	262.05	718-1364-2-ND	500	699.00	TR3D685K050C0500
	D	6.8	±10%	3.4	6	0.3	0.71	718-1781-1-ND ***NEW!***	3.87	34.41	311.84	718-1781-2-ND ***NEW!***	500	779.50	TR3D685K050C0300
	E	6.8	±10%	3.4	6	0.5	0.57	718-1549-1-ND	4.96	46.61	413.44	718-1549-2-ND	400	902.00	TR3E685K050C0500
	D	10	±10%	5.0	6	0.55	0.52	718-1335-1-ND	3.90	32.38	285.72	718-1335-2-ND	500	762.00	TR3D106K050C0550
	D	10	±10%	5.0	6	0.45	0.58	718-1852-1-ND ***NEW!***	3.77	33.52	303.78	718-1852-2-ND ***NEW!***	500	759.50	TR3D106K050C0450
	E	10	±10%	5.0	6	0.55	0.55	718-1368-1-ND	5.13	45.62	413.42	718-1368-2-ND	400	912.40	TR3E106K050C0550
	E	10	±10%	5.0	6	0.4	0.64	718-1367-1-ND	5.70	53.51	474.68	718-1367-2-ND	400	1035.60	TR3E106K050C0400
	E	10	±10%	5.0	6	0.3	0.74	718-1543-1-ND	6.55	61.53	545.82	718-1543-2-ND	400	1190.80	TR3E106K050C0300
	E	15	±10%	7.5	6	0.3	0.74	718-1785-1-ND ***NEW!***	2.85	23.62	208.44	718-1785-2-ND ***NEW!***	400	500.40	TR3E156M050C0300
63	D	4.7	±10%	3.0	6	0.7	0.46	718-1713-1-ND ***NEW!***	7.92	74.07	638.58	718-1713-2-ND ***NEW!***	500	1756.00	TR3D475K063C0700
	E	10	±10%	6.3	6	0.6	0.52	718-1714-1-ND ***NEW!***	9.60	89.78	774.00	718-1714-2-ND ***NEW!***	400	1795.60	TR3E106K063C0600

TANTAMOUNT® High Temperature Solid Tantalum Chip Capacitors — TH3 Series

Features: • Operating temperature up to 150°C with 50% voltage derating • High reliability • RoHS compliant matte tin terminations • 100% Surge current tested (B, C, D and E case sizes)

Performance/Electrical Characteristics:
• Operating Temperature: -55°C ~ 150°C

Capacitance Tolerance: • ±10%

Case Code	EIA Size	Dimensions — mm					
		L	W	H	P	TW	TH (Min.)
A	3216-18	3.2 ±0.20	1.6 ±0.20	1.6 ±0.20	0.80 ±0.30	1.2 ±0.10	0.70
B	3528-21	3.5 ±0.20	2.8 ±0.20	1.9 ±0.20	0.80 ±0.30	2.2 ±0.10	0.70
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

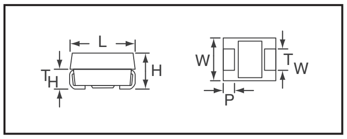

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
16	A	3.3	0.5	6	5.0	0.12	718-1267-1-ND	.28	1.88	15.00	—	—	—	TH3A335K016C3400
	D	47	7.5	6	0.7	0.46	718-1271-1-ND	1.38	11.52	84.53	718-1271-2-ND	500	220.50	TH3D476K016C0600
	E	100	16.0	8	0.6	0.52	718-1274-1-ND	1.37	11.21	90.26	718-1274-2-ND	400	218.80	TH3E107K016C0600
25	B	2.2	0.6	6	3.8	0.15	718-1268-1-ND	.70	5.86	36.75	718-1268-2-ND	2,000	140.00/M	TH3B225K025C3000
	C	10	2.5	6	1.5	0.27	718-1270-1-ND	.86	7.29	49.50	718-1270-2-ND	500	130.50	TH3C106K025C1100
	D	33	8.3	6	0.7	0.46	718-1272-1-ND	1.33	10.87	87.45	718-1272-2-ND	500	225.50	TH3D336K025C0500
35	B	1	0.5	4	5.0	0.13	718-1269-1-ND	.70	5.86	36.75	718-1269-2-ND	2,000	140.00/M	TH3B105K035C4400
	D	10	3.5	6	0.8	0.43	718-1273-1-ND	1.28	10.46	84.15	718-1273-2-ND	500	217.00	TH3D106K035C0700
	E	22	7.7	6	0.6	0.52	718-1275-1-ND	1.73	14.15	113.85	718-1275-2-ND	400	276.00	TH3E226K035C0500

TANTAMOUNT® Hi-Rel COTS Solid Tantalum Chip Capacitors — T83 Series

Features: • Tin/Lead (SnPb) terminations • Standard and low ESR options • High reliability • Meets EIA 535BAAC and IEC QC 300801/DSCC mechanical and performance requirements
Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 85°C (to 125°C with voltage derating)
Capacitance Tolerance: ±10%
Applications: • Avionics • Military • Aerospace

Case Code	EIA Size	Dimensions — mm L	W	H	P	TW	TH (Min.)
A	3216-18	3.2 ±0.20	1.6 ±0.20	1.6 ±0.20	0.80 ±0.30	1.2 ±0.10	0.70
B	3528-21	3.5 ±0.20	2.8 ±0.20	1.9 ±0.20	0.80 ±0.30	2.2 ±0.10	0.70
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

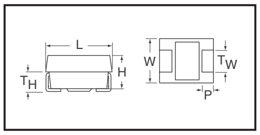

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
6.3	B	47	2.8	6	0.55	718-1602-1-ND†	4.18	37.12	336.40	718-1602-2-ND†	2,000	1508.00/M	T83B476K6R3EZZL
	C	220	13.9	14	0.3	718-1601-1-ND†	5.45	51.15	453.75	718-1601-2-ND†	500	1155.00	T83C227K6R3EZZL
10	A	4.7	0.5	6	3.0	718-1569-1-ND†	4.06	33.66	297.00	718-1569-2-ND†	2,000	1337.00/M	T83A475K010EZZL
	A	10	1.0	6	2.0	718-1563-1-ND†	3.96	35.20	319.00	718-1563-2-ND†	2,000	1430.00/M	T83A106K010EZZL
	B	33	3.3	6	0.6	718-1567-1-ND†	4.18	37.12	336.40	718-1567-2-ND†	2,000	1508.00/M	T83B336K010EZZL
	B	47	4.7	6	0.6	718-1570-1-ND†	4.97	44.16	400.20	718-1570-2-ND†	2,000	1794.00/M	T83B476K010EZZL
	C	100	10.0	8	0.9	718-1564-1-ND	5.36	47.68	432.10	718-1564-2-ND	500	1080.50	T83C107K010EZZS
	D	100	10.0	8	0.1	718-1565-1-ND†	5.81	54.56	484.00	718-1565-2-ND†	500	1232.00	T83D107K010EZZL
	E	220	22.0	8	0.1	718-1566-1-ND†	6.73	63.24	561.00	718-1566-2-ND†	400	1224.00	T83E227K010EZZL
	E	330	33.0	10	0.5	718-1568-1-ND	6.37	59.83	530.75	718-1568-2-ND	400	1158.00	T83E337K010EZZS
16	B	10	1.6	6	0.8	718-1571-1-ND†	4.18	37.12	336.40	718-1571-2-ND†	2,000	1508.00/M	T83B106K016EZZL
	C	10	1.6	6	0.45	718-1572-1-ND†	5.36	47.68	432.10	718-1572-2-ND†	500	1080.50	T83C106K016EZZL
	B	33	5.3	6	0.5	718-1574-1-ND†	4.97	44.16	400.20	718-1574-2-ND†	2,000	1794.00/M	T83B336K016EZZL
	D	47	7.5	6	0.15	718-1575-1-ND†	5.81	54.56	484.00	718-1575-2-ND†	500	1232.00	T83D476K016EZZL
	E	100	16.0	8	0.6	718-1573-1-ND	6.01	56.42	500.50	718-1573-2-ND	400	1092.00	T83E107K016EZZS
20	A	4.7	0.9	6	3.5	718-1579-1-ND†	3.96	35.20	319.00	718-1579-2-ND†	2,000	1430.00/M	T83A475K020EZZL
	B	10	2.0	6	1.0	718-1576-1-ND†	4.97	44.16	400.20	718-1576-2-ND†	2,000	1794.00/M	T83B106K020EZZL
	C	22	4.4	6	1.1	718-1577-1-ND	5.36	47.68	432.10	718-1577-2-ND	500	1080.50	T83C226K020EZZS
	D	33	6.6	6	0.2	718-1578-1-ND†	5.81	54.56	484.00	718-1578-2-ND†	500	1232.00	T83D336K020EZZL
	D	47	9.4	6	0.7	718-1580-1-ND	5.45	51.15	453.75	718-1580-2-ND	500	1155.00	T83D476K020EZZS
	E	47	9.4	6	0.15	718-1581-1-ND†	6.01	56.42	500.50	718-1581-2-ND†	400	1092.00	T83E476K020EZZL
25	A	2.2	0.6	6	4.0	718-1583-1-ND†	4.06	33.66	297.00	718-1583-2-ND†	2,000	1337.00/M	T83A225K025EZZL
	B	4.7	1.2	6	1.5	718-1586-1-ND†	4.18	37.12	336.40	718-1586-2-ND†	2,000	1508.00/M	T83B475K025EZZL
	C	10	2.5	6	0.45	718-1582-1-ND†	5.36	47.68	432.10	718-1582-2-ND†	500	1080.50	T83C106K025EZZL
	D	33	8.3	6	0.7	718-1584-1-ND	5.45	51.15	453.75	718-1584-2-ND	500	1155.00	T83D336K025EZZS
	E	33	8.3	6	0.2	718-1585-1-ND†	6.73	63.24	561.00	718-1585-2-ND†	400	1224.00	T83E336K025EZZL
	E	47	11.8	6	0.3	718-1587-1-ND†	7.10	66.65	591.25	—	—	—	T83E476K025EZZL
35	A	1.0	0.5	4	6.0	718-1588-1-ND†	3.96	35.20	319.00	718-1588-2-ND†	2,000	1430.00/M	T83A105K035EZZL
	B	3.3	1.2	6	1.5	718-1594-1-ND†	4.18	37.12	336.40	718-1594-2-ND†	2,000	1508.00/M	T83B335K035EZZL
	C	4.7	1.6	6	0.6	718-1595-1-ND†	5.36	47.68	432.10	718-1595-2-ND†	500	1080.50	T83C475K035EZZL
	C	10	3.5	6	0.85	718-1589-1-ND†	5.45	51.15	453.75	718-1589-2-ND†	500	1155.00	T83C106K035EZZL
	D	10	3.5	6	0.3	718-1590-1-ND†	5.81	54.56	484.00	718-1590-2-ND†	500	1232.00	T83D106K035EZZL
	D	15	5.3	6	0.3	718-1591-1-ND†	5.81	54.56	484.00	718-1591-2-ND†	500	1232.00	T83D156K035EZZL
	D	22	7.7	6	0.4	718-1592-1-ND†	6.37	59.83	530.75	718-1592-2-ND†	500	1351.00	T83D226K035EZZL
	E	22	7.7	6	0.3	718-1593-1-ND†	6.73	63.24	561.00	718-1593-2-ND†	400	1224.00	T83E226K035EZZL
50	B	1.0	0.5	4	2.0	718-1596-1-ND†	4.97	44.16	400.20	718-1596-2-ND†	2,000	1794.00/M	T83B105K050EZZL
	C	1.0	0.5	4	1.6	718-1597-1-ND†	5.36	47.68	432.10	718-1597-2-ND†	500	1080.50	T83C105K050EZZL
	C	2.2	1.1	6	1.5	718-1599-1-ND†	5.45	51.15	453.75	718-1599-2-ND†	500	1155.00	T83C225K050EZZL
	D	4.7	2.4	6	0.6	718-1600-1-ND†	5.81	54.56	484.00	718-1600-2-ND†	500	1232.00	T83D475K050EZZL
	E	10	5.0	6	0.8	718-1598-1-ND	6.37	59.83	530.75	718-1598-2-ND	400	1158.00	T83E106K050EZZS
63	D	4.7	3.0	6	0.70	718-1715-1-ND† ***NEW!***	7.85	73.78	654.50	718-1715-2-ND† ***NEW!***	500	1666.00	T83D475K063EZZL
	E	10	6.3	6	0.60	718-1716-1-ND† ***NEW!***	8.43	78.88	680.00	718-1716-2-ND† ***NEW!***	400	1577.60	T83E106K063EZZL

† Low ESR

TANTAMOUNT® Solid Tantalum Chip Capacitors with Miniature Built-In-Fuse — 893D Series

Features: • Electrically activated internal fuse • Meets EIA 535BAAC and IEC specification QC300801/US0001 • 100% Surge current tested (D and E case codes) • **Fuse activation at 25°C: 0.1 second maximum with 5A minimum applied current** **Performance/Electrical Characteristics:** • Operating Temperature: -55°C ~ 125°C **Capacitance Tolerance:** • ±10%

Case Code	EIA Size	Dimensions — mm L	W	H	P	TW	TH (Min.)
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

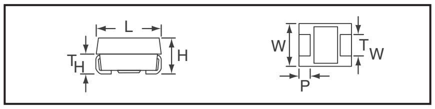

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
10	C	22	2.2	6	1.4	0.28	718-1286-1-ND	2.21	18.36	162.00	718-1286-2-ND	500	432.00	893D226X9010C2TE3
	D	100	10	8	0.6	0.50	718-1281-1-ND	4.17	37.09	336.11	718-1281-2-ND	500	840.50	893D107X9010D2TE3
	E	150	15	8	0.5	0.57	718-1285-1-ND	7.26	68.20	605.00	718-1285-2-ND	400	1320.00	893D157X9010E2TE3
	E	220	22	8	0.5	0.57	718-1290-1-ND	7.26	68.20	605.00	718-1290-2-ND	400	1320.00	893D227X9010E2TE3
16	C	10	1.6	6	1.8	0.25	718-1277-1-ND	2.21	18.36	162.00	718-1277-2-ND	500	432.00	893D106X9016C2TE3
	D	33	5.3	6	0.7	0.46	718-1291-1-ND	3.90	32.30	285.00	718-1291-2-ND	500	760.00	893D336X9016D2TE3
	D	47	7.5	6	0.7	0.46	718-1295-1-ND	3.90	32.30	285.00	718-1295-2-ND	500	760.00	893D476X9016D2TE3
	E	100	16	8	0.6	0.52	718-1282-1-ND	7.26	68.20	605.00	718-1282-2-ND	400	1320.00	893D107X9016E2TE3
20	C	10	2.0	6	1.6	0.26	718-1278-1-ND	2.21	18.36	162.00	718-1278-2-ND	500	432.00	893D106X9020C2TE3
	D	22	4.4	6	0.7	0.46	718-1287-1-ND	3.90	32.30	285.00	718-1287-2-ND	500	760.00	893D226X9020D2TE3
	E	68	13.6	6	0.6	0.52	718-1298-1-ND	8.14	55.00	440.00	—	—	—	893D686X9020E2TE3
25	C	4.7	1.2	6	1.9	0.24	718-1292-1-ND	2.21	18.36	162.00	718-1292-2-ND	500	432.00	893D475X9025C2TE3
	D	10	2.5	6	1.0	0.39	718-1279-1-ND	3.90	32.30	285.00	718-1279-2-ND	500	760.00	893D106X9025D2TE3
	D	15	3.8	6	0.8	0.43	718-1283-1-ND	3.52	23.75	190.00	—	—	—	893D156X9025D2TE3
	E	22	5.5	6	0.7	0.49	718-1288-1-ND	7.26	68.20	605.00	718-1288-2-ND	400	1320.00	893D226X9025E2TE3
35	D	6.8	2.4	6	1.0	0.38	718-1296-1-ND	3.90	32.30	285.00	718-1296-2-ND	500	760.00	893D685X9035D2TE3
	D	10	3.5	6	0.8	0.43	718-1280-1-ND	3.90	32.30	285.00	718-1280-2-ND	500	760.00	893D106X9035D2TE3
	E	22	7.7	6	0.6	0.52	718-1289-1-ND	7.26	68.20	605.00	718-1289-2-ND	400	1320.00	893D226X9035E2TE3
50	C	1.0	0.5	4	4.4	1.60	718-1276-1-ND	2.77	22.95	202.50	718-1276-2-ND	500	540.00	893D105X9050C2TE3
	D	4.7	2.4	6	1.1	0.37	718-1293-1-ND	4.28	38.02	344.52	718-1293-2-ND	500	861.50	893D475X9050D2TE3
	E	6.8	3.4	6	0.9	0.43	718-1297-1-ND	8.53	79.75	687.50	718-1297-2-ND	400	1595.20	893D685X9050E2TE3

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TANTAMOUNT® Maximum CV Conformal Coated Solid Tantalum Chip Capacitors — 594D and 595D Series

594D Series:
Features: • Large capacitance rating range • Lowest ESR for a surface mount tantalum chip capacitor • Case code compatibility with EIA 535BAAE and CECC30801 molded chips • 100% surge current conditioning for C, D and R cases **Performance/Electrical Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating)

595D Series:
Features: • Large capacitance rating range • Case code compatibility with EIA 535BAAC and CECC30801 molded chips
Performance/Electrical characteristics: • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating)

Case Code	Dimensions — mm						
	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
A	3.7	1.8 ±0.3	1.4 ±0.3	0.80 ±0.30	2.2 ±0.4	2.9	0.1
B	4.0	2.8 +0.3/-0.4	1.9 +0.3/-0.6	0.80 ±0.30	2.5 ±0.4	3.5	0.1
C	7.1	3.2 ±0.3	2.5 ±0.3	1.3 ±0.30	4.6 ±0.6	6.0	0.1
D	7.5	4.3 +0.3/-0.6	2.8 ±0.3	1.3 ±0.30	4.6 ±0.6	6.4	0.1
R	7.2	6.0 +0.3/-0.6	3.5 ±0.3	1.3 ±0.30	4.6 ±0.6	6.2	0.1

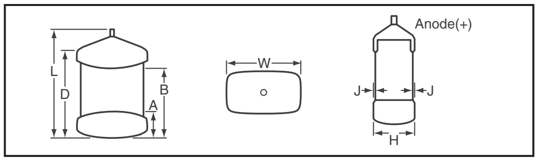

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DCL @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
594D Series (Low ESR)															
6.3	R	1000	±20%	63	16	0.030	2.89	718-1006-1-ND	8.69	81.29	700.75	718-1006-2-ND	600	2312.40	594D108X06R3R2T
10	C	68	±20%	6.8	6	0.100	1.05	718-1004-1-ND	2.76	22.85	201.60	718-1004-2-ND	500	537.50	594D686X0010C2T
	D	220	±20%	22	8	0.065	1.52	718-1603-1-ND	4.63	41.15	372.94	718-1603-2-ND	500	932.50	594D227X0010D2T
	R	330	±20%	33	8	0.045	2.36	718-1012-1-ND	7.04	66.12	586.58	718-1012-2-ND	600	1791.60	594D337X0010R2T
16	C	47	±20%	7.5	6	0.110	1.00	718-1002-1-ND	2.76	22.85	201.60	718-1002-2-ND	500	537.50	594D476X0016C2T
	C	100	±10%	16	8	0.080	1.17	718-1000-1-ND	3.33	27.61	243.60	718-1000-2-ND	500	649.50	594D107X9016C2T
	D	100	±10%	16	8	0.075	1.41	718-1001-1-ND	3.90	32.37	285.60	718-1001-2-ND	500	761.50	594D107X9016D2T
	R	180	±20%	28.8	8	0.055	2.13	718-1010-1-ND	7.04	66.12	586.58	718-1010-2-ND	600	1791.60	594D187X0016R2T
	R	220	±20%	35.2	8	0.055	2.13	718-1604-1-ND	7.92	74.10	638.75	718-1604-2-ND	600	2107.80	594D227X0016R2T
	R	330	±20%	52.8	8	0.055	2.13	718-1605-1-ND	7.92	74.10	638.75	718-1605-2-ND	600	2107.80	594D337X0016R2T
20	D	47	±20%	9.4	6	0.095	1.26	718-1003-1-ND	3.90	32.37	285.60	718-1003-2-ND	500	761.50	594D476X0020D2T
	R	120	±20%	24	8	0.080	1.77	718-1007-1-ND	7.04	66.12	586.58	718-1007-2-ND	600	1791.60	594D127X0020R2T
35	R	33	±20%	11.6	6	0.20	1.12	718-1011-1-ND	7.04	66.12	586.58	718-1011-2-ND	600	1791.60	594D336X0035R2T
50	R	15	±20%	7.5	6	0.35	0.85	718-1008-1-ND	7.74	72.73	645.15	718-1008-2-ND	600	1970.40	594D156X0050R2T
	R	15	±10%	7.5	6	0.35	0.85	718-1009-1-ND	7.74	72.73	645.15	718-1009-2-ND	600	1970.40	594D156X9050R2T
595D Series															
10	A	15	±20%	1.5	6	1.8	0.20	718-1021-1-ND	1.72	14.10	113.52	718-1021-2-ND	2,000	482.00/M	595D106X0010A2T
	R	330	±20%	33	8	0.13	1.39	718-1019-1-ND	5.64	52.95	469.70	718-1019-2-ND	600	1434.60	595D337X0010R2T
16	B	10	±10%	1.6	6	0.76	0.32	718-1606-1-ND	2.07	16.97	136.62	718-1606-2-ND	2,000	580.00/M	595D106X9016B2T
	C	100	±20%	16	8	0.14	1.04	718-1005-1-ND	3.52	29.17	257.40	718-1005-2-ND	500	686.50	595D107C0016D2T
25	R	68	±20%	17	6	0.20	1.12	718-1020-1-ND	5.64	52.95	469.70	718-1020-2-ND	600	1434.60	595D686X0025R2T
	R	100	±20%	25	8	0.20	1.12	718-1013-1-ND	6.77	63.64	564.58	718-1013-2-ND	600	1724.40	595D107X0025R2T
	R	100	±10%	25	8	0.20	1.12	718-1014-1-ND	6.77	63.64	564.58	718-1014-2-ND	600	1724.40	595D107X9025R2T
35	R	33	±20%	11.6	6	0.28	0.94	718-1018-1-ND	5.64	52.95	469.70	718-1018-2-ND	600	1434.60	595D336X0035R2T
50	R	15	±20%	7.5	6	0.40	0.79	718-1015-1-ND	6.20	58.28	517.00	718-1015-2-ND	600	1579.20	595D156X0050R2T
	R	22	±20%	11	6	0.39	0.80	718-1016-1-ND	7.45	70.03	621.23	718-1016-2-ND	600	1897.80	595D226X0050R2T
	R	22	±10%	11	6	0.39	0.80	718-1017-1-ND	7.45	70.03	621.23	718-1017-2-ND	600	1897.80	595D226X9050R2T

TANTAMOUNT® Hi-Rel COTS Conformal Coated Solid Tantalum Chip Capacitors — T95 Series

Features: • High reliability; standard burn-in • Low ESR • Tin/lead (SnPb) termination • Maximum C/V **Performance/Electrical Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) • Capacitance Tolerance: ±10% • Surge Current: 10 Cycles at 25°C **Applications:** • Aerospace • Military • Avionics

Case Code	Dimensions — mm						
	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
C	7.1	3.2 ±0.3	2.5 ±0.3	1.3 ±0.3	4.6 ±0.6	6.0	0.1
D	7.5	4.3 ±0.3	2.8 ±0.3	1.3 ±0.3	4.6 ±0.6	6.4	0.1
R	7.2	6.0 +0.3/-0.6	3.5 ±0.3	1.3 ±0.3	4.6 ±0.6	6.2	0.1
S	3.63	1.83 ±0.2	1.22 ±0.2	0.58 ±0.25	2.16 ±0.37	2.9	0.1
X	7.24	2.65 ±0.25	1.3 ±0.25	1.0 ±0.5	5.08 ±0.69	6.2	0.1

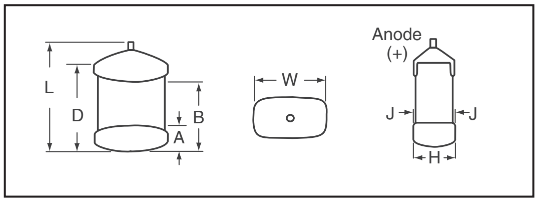

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DCL @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
6.3	D	470	28.2	10	0.060	718-1635-1-ND	7.00	65.72	583.00	718-1635-2-ND	250	795.00	T95D477K6R3LSAL
	R	680	40.8	12	0.045	718-1642-1-ND	10.88	101.79	877.50	718-1642-2-ND	300	1527.00	T95R687K6R3LSAL
10	R	100	10.0	8	0.075	718-1643-1-ND	11.35	106.14	915.00	718-1643-2-ND	300	1592.10	T95R107K010LSAL
	D	220	22.0	8	0.065	718-1636-1-ND	7.00	65.72	583.00	718-1636-2-ND	250	795.00	T95D227K010LSAL
	R	330	33.0	8	0.055	718-1644-1-ND	9.92	92.80	800.00	718-1644-2-ND	300	1392.00	T95R337K010LSAL
16	X	10	1.6	6	1.500	718-1654-1-ND	5.21	48.98	434.50	718-1654-2-ND	1,000	2054.00	T95X106K016LSAL
	C	100	16.0	8	0.090	718-1637-1-ND	6.07	57.04	506.00	718-1637-2-ND	250	690.00	T95C107K016LSAL
	D	150	24.0	8	0.085	718-1638-1-ND	7.00	65.72	583.00	718-1638-2-ND	250	795.00	T95D157K016LSAL
	R	220	35.2	8	0.055	718-1645-1-ND	10.88	101.79	877.50	718-1645-2-ND	300	1527.00	T95R227K016LSAL
	R	330	52.8	14	0.055	718-1646-1-ND	10.88	101.79	877.50	718-1646-2-ND	300	1527.00	T95R337K016LSAL
20	R	47	9.4	6	0.110	718-1648-1-ND	11.35	106.14	915.00	718-1648-2-ND	300	1592.10	T95R476K020LSAL
	R	150	30.0	8	0.075	718-1647-1-ND	10.88	101.79	877.50	718-1647-2-ND	300	1527.00	T95R157K020LSAL
25	D	33	8.3	6	0.130	718-1639-1-ND	6.47	60.76	539.00	718-1639-2-ND	250	735.00	T95D336K025LSAL
	R	68	17.0	6	0.095	718-1649-1-ND	9.92	92.80	800.00	718-1649-2-ND	300	1392.00	T95R686K025LSAL
35	S	1	0.5	4	3.500	718-1655-1-ND	5.08	45.12	408.90	718-1655-2-ND	1,250	1904.00/M	T95S105K035LSAL
	D	15	5.3	6	0.270	718-1640-1-ND	6.47	60.76	539.00	718-1640-2-ND	250	735.00	T95D156K035LSAL
	R	33	11.6	6	0.200	718-1650-1-ND	9.92	92.80	800.00	718-1650-2-ND	300	1392.00	T95R336K035LSAL
50	D	6.8	3.4	6	0.450	718-1641-1-ND	6.73	63.24	561.00	718-1641-2-ND	250	765.00	T95D685K050LSAL
	R	10	5.0	6	0.500	718-1651-1-ND	10.39	97.15	837.50	718-1651-2-ND	300	1457.40	T95R106K050LSAL
	R	15	7.5	6	0.350	718-1652-1-ND	10.39	97.15	837.50	718-1652-2-ND	300	1457.40	T95R156K050LSAL
	R	22	11.0	6	0.300	718-1653-1-ND	11.44	107.01	922.50	718-1653-2-ND	300	1605.30	T95R226K050LSAL

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TANTAMOUNT® Maximum CV Ultra-Low ESR Conformal Coated Solid Tantalum Chip Capacitors — 597D Series

Features: • Terminations: Tin • High ripple current • Low profile case sizes • Extremely low ESR **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) • Capacitance Tolerance: ±10%

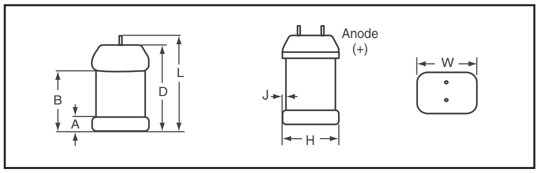

Case Code	Dimensions — mm L	W	H	A	B	D (Ref.)	J (Max.)
E	7.3 ±0.3	4.4 ±0.4	4.0 ±0.4	1.3 ±0.3	4.6 ±0.6	6.4	0.1
F	7.3 ±0.3	6.0 ±0.4	4.7 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
R	7.3 ±0.3	6.0 +0.4/-0.6	3.6 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
V	7.3 ±0.3	4.4 ±0.4	2.0 Max.	1.3 ±0.3	4.6 ±0.6	6.4	0.1
Z	7.3 ±0.3	6.0 ±0.4	6.0 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1

Rated Voltage (VDC)	Case Code	Capacitance (µF)	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz (%)	Max. ESR @25°C 100kHz (mΩ)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
4	V	470	19	8	30	2.2	718-1398-1-ND	3.28	2.72	2.40	718-1398-2-ND	1,000	1119.00	597D477X9004V2T
4	E	1000	40	8	20	3.3	718-1389-1-ND	6.17	5.80	5.15	718-1389-2-ND	500	1309.50	597D108X9004E2T
4	R	1000	40	8	18	3.7	718-1390-1-ND	6.17	5.80	5.15	718-1390-2-ND	600	1571.40	597D108X9004R2T
4	R	1500	60	8	15	4.1	718-1392-1-ND	6.48	6.09	5.41	718-1392-2-ND	600	1650.00	597D158X9004R2T
6.3	V	330	21	8	35	2.0	718-1397-1-ND	3.46	2.87	2.53	718-1397-2-ND	1,000	1180.00	597D337X96R3V2T
6.3	E	470	30	6	30	2.7	718-1400-1-ND	5.79	5.45	4.83	718-1400-2-ND	500	1229.00	597D477X96R3E2T
6.3	E	680	43	6	25	2.9	718-1402-1-ND	5.91	5.55	4.93	718-1402-2-ND	500	1253.00	597D687X96R3E2T
6.3	R	1000	63	8	20	3.5	718-1391-1-ND	6.48	6.09	5.41	718-1391-2-ND	600	1650.00	597D108X96R3R2T
10	E	330	33	6	35	2.5	718-1396-1-ND	5.95	5.59	4.96	718-1396-2-ND	500	1261.50	597D337X9010E2T
10	E	470	47	6	28	2.8	718-1399-1-ND	6.17	5.80	5.15	718-1399-2-ND	500	1309.50	597D477X9010E2T
10	R	680	68	6	28	2.9	718-1401-1-ND	6.48	6.09	5.41	718-1401-2-ND	300	883.80	597D687X9010R2T
10	F	1000	100	20	120	1.4	718-1630-1-ND	7.84	7.34	6.33	718-1630-2-ND	250	917.25	597D108X9010F2T
16	E	220	35	8	40	2.3	718-1394-1-ND	5.90	5.55	4.92	718-1394-2-ND	500	1251.50	597D227X9016E2T
20	R	220	44	8	80	1.8	718-1633-1-ND	6.72	6.31	5.60	718-1633-2-ND	300	915.90	597D227X9020R2T
25	R	68	17	6	100	1.6	718-1387-1-ND	7.08	4.61	3.54	—	—	—	597D686X9025R2T
25	F	150	38	8	80	1.8	718-1632-1-ND	9.38	8.78	7.57	718-1632-2-ND	250	1096.50	597D157X9025F2T
35	R	47	17	6	80	1.8	718-1631-1-ND	7.48	7.03	6.24	718-1631-2-ND	300	1019.70	597D476X9035R2T
50	E	15	8	6	300	0.8	718-1409-1-ND	7.62	7.17	6.36	718-1409-2-ND	500	1617.00	597D156X9050E2T
50	R	15	8	6	250	1.0	718-1410-1-ND	7.62	7.17	6.36	718-1410-2-ND	300	1039.50	597D156X9050R2T
50	R	22	11	6	170	0.8	718-1393-1-ND	7.99	7.51	6.66	718-1393-2-ND	600	2032.80	597D226X9050R2T
50	F	33	17	6	150	0.8	718-1395-1-ND	9.85	9.21	7.94	718-1395-2-ND	250	1151.25	597D336X9050F2T
50	Z	47	24	6	145	1.1	718-1408-1-ND	10.40	9.73	8.39	718-1408-2-ND	250	1216.25	597D476X9050Z2T
63	F	22	14	6	200	0.9	718-1407-1-ND	10.61	9.93	8.56	718-1407-2-ND	250	1240.00	597D226X9063F2T
75	R	10	8	6	500	0.7	718-1736-1-ND ***NEW!***	15.47	14.47	12.48	718-1736-2-ND ***NEW!***	300	2170.50	597D106X9075R2T

TANTAMOUNT® Hi-Rel COTS Ultra-Low ESR Conformal Coated Solid Tantalum Chip Capacitors — T97 Series

Features: • High reliability; 40h Burn-in • Ultra-low ESR • Tin/Lead (SnPb) terminations • Multi-anode **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) • Capacitance Tolerance: ±10% • Surge Current: 10 Cycles at 25°C **Applications:** • Aerospace • Military • Avionics

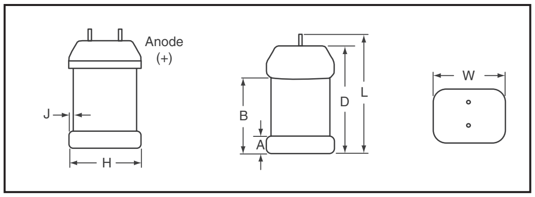

Case Code	Dimensions — mm L	W	H	A	B	D (Ref.)	J (Max.)
E	7.3 ±0.3	4.4 ±0.4	4.0 ±0.4	1.3 ±0.3	4.6 ±0.6	6.4	0.1
F	7.3 ±0.3	6.0 ±0.4	4.7 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
R	7.3 ±0.3	6.0 +0.4/-0.6	3.6 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
V	7.3 ±0.3	4.4 ±0.4	2.0 Max.	1.3 ±0.3	4.6 ±0.6	6.4	0.1
Z	7.3 ±0.3	6.0 ±0.4	6.0 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1

Rated Voltage (VDC)	Case Code	Capacitance (µF)	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz (%)	Max. ESR @25°C 100kHz (mΩ)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
4	V	470	19	8	30	2.2	718-1669-1-ND	7.52	7.07	6.27	718-1669-2-ND	500	1596.00	T97V477K004LSA
4	R	1500	60	8	15	4.1	718-1656-1-ND	10.04	9.40	—	718-1656-2-ND	150	777.60	T97R158K004LSA
6.3	E	680	43	6	25	2.9	718-1666-1-ND	9.58	8.97	7.73	718-1666-2-ND	250	1120.25	T97E687K6R3LSA
10	E	330	33	6	35	2.5	718-1667-1-ND	9.61	8.99	7.75	718-1667-2-ND	250	1123.75	T97E337K010LSA
10	R	680	68	6	28	2.9	718-1657-1-ND	10.04	9.40	—	718-1657-2-ND	150	777.60	T97R687K010LSA
10	F	1000	100	20	120	1.4	718-1658-1-ND	11.47	10.73	—	718-1658-2-ND	125	740.00	T97F108K010LSA
20	R	220	44	8	80	1.8	718-1659-1-ND	10.20	9.55	—	718-1659-2-ND	150	789.60	T97R227K020LSA
25	R	68	17	6	100	1.6	718-1661-1-ND	10.54	9.86	—	718-1661-2-ND	150	816.00	T97R686K025LSA
25	F	150	38	8	80	1.8	718-1662-1-ND	12.71	11.89	—	718-1662-2-ND	125	820.00	T97F157K025LSA
50	E	15	8	6	300	0.8	718-1668-1-ND	10.91	10.21	8.80	718-1668-2-ND	250	1276.00	T97E156K050LSA
50	R	22	11	6	170	0.8	718-1663-1-ND	11.19	10.47	—	718-1663-2-ND	150	866.40	T97R226K050LSA
50	Z	47	24	6	145	1.1	718-1664-1-ND	13.55	12.68	—	718-1664-2-ND	125	874.00	T97Z476K050LSA
63	F	22	14	6	200	0.9	718-1665-1-ND	13.73	12.85	—	718-1665-2-ND	125	886.00	T97F226K063LSA
75	R	10	8	6	500	0.7	718-1737-1-ND◆ ***NEW!***	16.23	15.03	—	718-1737-2-ND◆ ***NEW!***	150	1352.25	T97R106K075LSA

◆ *RoHS Compliant*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TANTAMOUNT® Maximum CV Low Profile Conformal Coated Solid Tantalum Chip Capacitors — 592D Series

Features: • Robust 6.3V ratings for battery operated wireless applications • 2.0mm low profile height • Case code compatible with EIA 535BAAC and CECC 30801 molded chips • X case size can be used to replace several capacitors with lower ratings, resulting in cost reduction • Very low ESR limits **Applications:** • Telecommunications • Computing • PCMCIA cards **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating)

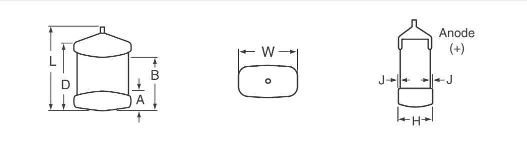

Case Code	Dimensions — mm						
	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
R	7.2	6.0 +0.3/-0.6	2.0 Max.	1.3 ±0.3	4.6 ±0.6	6.2	0.1
X	14.5	7.37 +0.25/-0.5	2.0 Max.	1.3 ±0.4	11.9 ±0.6	13.2	0.1

Capacitance (µF)	Tolerance	Case Code	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz (%)	Max. ESR @25°C 100kHz (mΩ)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
1000	±10%	R	63	20	200	0.94	718-1406-1-ND	4.39	3.91	3.54	718-1406-2-ND	1,000	1646.00	592D108X96R3R2T20H
1000	±10%	X	63	16	40	2.1	718-1405-1-ND	8.00	7.52	6.67	718-1405-2-ND	500	1697.50	592D108X96R3X2T20H
1500	±20%	R	95	33	120	1.21	718-1386-1-ND	5.44	5.11	4.53	718-1386-2-ND	1,000	2141.00	592D158X06R3R2T20H
1500	±10%	X	95	25	45	1.97	718-1404-1-ND	8.00	7.52	6.67	718-1404-2-ND	500	1697.50	592D158X96R3X2T20H
2200	±10%	X	139	35	55	1.8	718-1403-1-ND	8.00	7.52	6.67	718-1403-2-ND	500	1697.50	592D228X96R3X2T20H

TANTAMOUNT® Maximum CV Low Profile, Low ESR Conformal Coated Solid Tantalum Chip Capacitors — 591D Series

Features: • Robust 6.3V ratings for battery operated wireless applications • 1.2mm ~ 2mm height • Terminations: Lead (Pb)-free • Very low ESR • Footprint compatible with EIA 535BAAC and CECC 30801 molded chips **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) • Capacitance Tolerance: ±10%

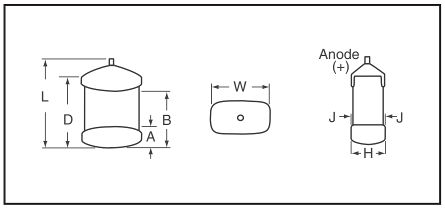

Case Code	Suffix	Dimensions — mm						
		L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
A	15H	3.7	1.8 ±0.3	1.2 ±0.3	0.80 ±0.30	2.2 ±0.4	2.9	0.1
B	15H	4.0	2.8 ±0.3	1.2 ±0.3	0.80 ±0.30	2.5 ±0.4	3.5	0.1
B	20H	4.0	2.8 ±0.3	2.0 Max.	0.80 ±0.30	2.5 ±0.4	3.5	0.1
C	20H	7.1	3.2 ±0.3	2.0 Max.	1.3 ±0.30	4.4 ±0.6	6.0	0.1
D	20H	7.5	4.3 ±0.3	2.0 Max.	1.3 ±0.30	4.6 ±0.6	6.4	0.1
R	16H	7.2	6.0 +0.3/-0.6	1.6 Max.	1.3 ±0.30	4.6 ±0.6	6.2	0.1
R	20H	7.2	6.0 +0.3/-0.6	2.0 Max.	1.3 ±0.30	4.6 ±0.6	6.2	0.1

Rated Voltage (V)	Capacitance (µF)	Case Code	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz (%)	Max. ESR @25°C 100kHz (Ω)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
4	47	B	1.9	6	0.8	0.33	718-1626-1-ND	2.73	2.27	2.01	718-1626-2-ND	2,000	900.00/M	591D476X9004B2T15H
6.3	100	B	6.0	8	0.5	0.41	718-1627-1-ND	2.73	2.27	2.01	718-1627-2-ND	2,000	900.00/M	591D107X96R3B2T15H
6.3	220	C	13.9	8	0.075	1.21	718-1620-1-ND	3.68	3.05	2.70	718-1620-2-ND	1,000	1256.00	591D227X96R3C2T20H
6.3	680	R	42.8	10	0.06	1.87	718-1621-1-ND	5.11	4.80	4.26	718-1621-2-ND	1,000	2012.00	591D687X96R3R2T16H
6.3	1000	R	63	20	0.075	1.52	718-1619-1-ND	5.63	5.29	4.70	718-1619-2-ND	1,000	2218.00	591D108X96R3R2T20H
10	10	A	1.0	6	1.3	0.24	718-1629-1-ND	2.35	1.93	1.56	718-1629-2-ND	2,500	658.00/M	591D106X9010A2T15H
10	100	B	10.0	14	0.25	0.57	718-1628-1-ND	3.29	2.73	2.41	718-1628-2-ND	2,000	1083.00/M	591D107X9010B2T20H
10	330	R	33.0	8	0.05	1.87	718-1622-1-ND	5.03	4.73	4.19	718-1622-2-ND	1,000	1980.00	591D337X9010R2T20H
16	100	D	16.0	8	0.075	1.37	718-1623-1-ND	3.81	3.16	2.79	718-1623-2-ND	1,000	1301.00	591D107X9016D2T20H
16	220	R	35.2	10	0.075	1.53	718-1624-1-ND	5.03	4.73	4.19	718-1624-2-ND	1,000	1980.00	591D227X9016R2T20H
25	68	R	17	8	0.175	1.00	718-1625-1-ND	5.63	5.29	4.70	718-1625-2-ND	1,000	2218.00	591D686X9025R2T20H

TANTALEX® Elastomer Sealed Wet Tantalum Capacitors with Sintered Anode

for operations to 125°C — 109D Series

Case Code	Dimensions — mm		
	With Plastic-Film Case Insulating Sleeve		Lead Length
	D (Max.)	L (Max.)	
C	5.56	15.45	38.10 ±6.35
F	7.92	20.22	57.15 ±6.35
T	10.31	23.40	57.15 ±6.35
K	10.31	30.91	57.15 ±6.35

Model 109D TANTALEX capacitors fill the basic requirements for applications where a superior quality, reliable design for industrial, automotive, and telecommunications application is desired.

They are the commercial equivalents of Transitor Style WC, UWC, Mallory-NACC Style TLS, TLH and the Military Style CL64 and CL65. They are designed to meet the performance requirements of military specification MIL-DTL-3965.

Features: Outer plastic film insulation **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating) • Capacitance Tolerance: ±10%

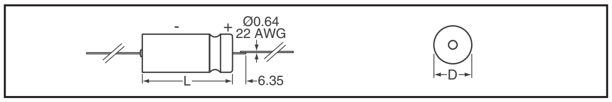

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. ESR @ 25°C 120Hz (Ω)	Max. IMP. @ -55°C 120Hz (Ω)	Max. DCL (µA) @		Digi-Key Part No.	Price Each			Vishay Part No.
					25°C	85°C 125°C		1	10	100	
25	F	270	2.7	33	3	16	718-1229-ND	32.22	30.53	24.60	109D277X9025F2
25	T	560	1.8	24	7	28	718-1225-ND	38.48	36.35	29.40	109D567X9025T2
50	C	33	5	135	2	9	718-1231-ND	27.27	25.83	20.81	109D336X9050C2
50	F	47	6	70	1	9	718-1232-ND	25.75	24.39	19.65	109D476X9050F2
50	F	120	2.5	49	4	24	718-1227-ND	32.22	30.53	24.60	109D127X9050F2
50	T	270	1.8	29	8	32	718-1230-ND	38.48	36.35	29.40	109D227X9050T2
60	F	100	2.5	54	4	20	718-1226-ND	32.22	30.53	24.60	109D107X9060F2
60	K	270	1.5	23	9	36	718-1223-ND	53.17	50.22	40.62	109D277X9060K2
75	C	22	5	157	3	12	718-1228-ND	27.27	25.83	20.81	109D226X9075C2
75	F	56	3	70	4	24	718-1224-ND	32.53	30.82	24.83	109D566X9075F2
75	F	82	2.5	63	4	24	718-1233-ND	32.22	30.53	24.60	109D826X9075F2
75	T	180	1.8	30	9	36	718-1222-ND	38.48	36.35	29.40	109D187X9075T2

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Wet Tantalum Capacitors with Tantalum Case with Glass-to-Tantalum Hermetic Seal for -55°C ~ 200°C operations — 135D Series

Model 135D tantalum-case tantalum electrolytic capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. These units have a 3 volt reverse voltage capability at 85°C and a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size. They also have a high resistance to damage from shock and vibration. These capacitors are commercial equivalents of Tansitor Style; AQ, AR, HAQ, HAR, Mallory-NACC Style; TLT, TXT, THT, THX and Military Style CLR79 and CLR81, designed to meet the performance requirements of military specification MIL-PRF-39006/22/25.

Performance Characteristics: Operating Temperature: -55°C ~ 85°C (Up to 200°C with voltage derating)

Capacitance Tolerance: ±10%

Physical Characteristics: Tinned nickel leads (solderable and weldable)

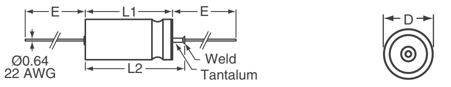

Case Code		Dimensions (mm)				Weight In Grams (Max.)
Type 135D	DCLR 79/81 Equivalent	D	L1	L2 (Max.)	E	
C	T1	5.16 ±0.41	11.51 + 0.79 - 0.41	18.64	38.10 ±6.35	2.6
F	T2	7.52 ±0.41	16.28 + 0.79 - 0.41	23.42	57.15 ±6.35	6.2
K	T4	9.91 ±0.41	26.97 + 0.79 - 0.41	34.11	57.15 ±6.35	17.7

Case Code	Capacitance (µF)	Max. ESR @ 25°C 120Hz (Ω)	Max. IMP. @ -55°C 120Hz (Ω)	Max. DCL (µA) @		Max. Ripple 40kHz rms (mA)	Digi-Key Part No.	Price Each			Vishay Part No.
				25°C	85°C/125°C			1	10	100	
Polyester Insulation Sleeve											
30 Volt @ 85°C (18 Volt @ 200°C)											
K	560	1.3	20	9	36	2000	718-1252-ND	76.08	71.33	61.82	135D567X9030K2
50 Volt @ 85°C (30 Volt @ 200°C)											
F	120	2.5	49	4	24	1200	718-1257-ND	53.62	50.65	40.97	135D127X9050F2
K	330	1.5	30	9	36	1900	718-1250-ND	76.08	71.33	61.82	135D337X9050K2
75 Volt @ 85°C (45 Volt @ 200°C)											
C	22	5.1	157	3	12	600	718-1259-ND	40.37	38.14	30.85	135D226X9075C2
F	33	4.2	90	1.0	10.0	1000	718-1264-ND	48.19	45.51	36.81	135D336X9075F2
K	220	1.8	24	10	40	1800	718-1248-ND	76.08	71.33	61.82	135D227X9075K2
125 Volt @ 85°C (75 Volt @ 200°C)											
C	1.7	15.6	1250	1.0	2.0	415	718-1258-ND	36.11	34.11	27.59	135D175X9125C2
K	82	2.8	32	12	48	1900	718-1253-ND	76.08	71.33	61.82	135D826X9125K2
High Temperature Film Insulation											
25 Volt @ 85°C (12 Volt @ 200°C)											
C	68	4.3	90	2	9	850	718-1265-ND	42.39	40.04	32.39	135D686X9025C6
F	270	2.7	33	3	16	1400	718-1263-ND	56.30	53.18	43.01	135D277X9025F6
50 Volt @ 85°C (30 Volt @ 200°C)											
C	10	6.4	250	1.0	2.0	715	718-1255-ND	37.93	35.82	28.98	135D106X9050C6
F	25	4.6	95	1.0	5.0	1005	718-1262-ND	50.60	47.79	38.66	135D256X9050F6
K	330	1.5	30	9	36	1900	718-1251-ND	79.89	74.90	64.91	135D337X9050K6
60 Volt @ 85°C (36 Volt @ 200°C)											
F	100	2.5	54	4	20	1100	718-1256-ND	56.30	53.18	43.01	135D107X9060F6
75 Volt @ 85°C (45 Volt @ 200°C)											
C	22	5.1	157	3	12	600	718-1260-ND	42.39	40.04	32.39	135D226X9075C6
F	82	2.5	63	4	24	1000	718-1266-ND	56.30	53.18	43.01	135D826X9075F6
K	220	1.8	24	10	40	1800	718-1249-ND	79.89	74.90	64.91	135D227X9075K6
100 Volt @ 85°C (60 Volt @ 200°C)											
F	22	4.8	100	1.0	9.0	965	718-1261-ND	50.60	47.79	38.66	135D226X9100F6
125 Volt @ 85°C (75 Volt @ 200°C)											
K	82	2.8	32	12	48	1900	718-1254-ND	79.89	74.90	64.91	135D826X9125K6

HI TMP® Wet Tantalum Capacitors with Tantalum-Case with Glass-to-Tantalum Hermetic Seal for -55°C ~ 200°C Operations — 134D Series

The 134D HI TMP represents a major breakthrough in wet tantalum capacitor technology for high temperature (200°C) applications such as those seen in the petroleum exploration industry. Its unique design provides for the highest capacitance per unit volume. The design facilitates a doubling of capacitance when compared with conventional wet tantalum products. The 134D is housed in an all tantalum, hermetically sealed case and is manufactured to withstand high stress and hazardous environments.

Performance Characteristics: • Operating Temperature: -55°C ~ 85°C (Up to 200°C with voltage derating) • Capacitance Tolerance: ±10% **Physical Characteristics:** • Tinned nickel leads (solderable and weldable)

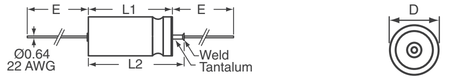

Case Code	Dimensions (mm)				Weight (Max.) (grams)
	D (±0.41)	L1 (+0.79 ~ -0.41)	L2 (Max.)	E (±6.35)	
C	4.78	11.51	18.64	38.10	2.6
F	7.14	16.28	23.42	57.15	6.2
K	9.53	26.97	34.11	57.15	17.7
T	9.53	19.46	26.59	57.15	11.6

Cap.@ 25°C 120Hz (µF)	Case Code	Max. ESR 120Hz (Ω)	Max. DCL (µA) @		Typical IMP, Z @ -55°C (Ω)	AC Ripple 85°C 40kHz mA rms	Digi-Key Part No.	Price Each			Vishay Part No.
			25°C	85°C/125°C				1	10	100	
50 Volt @ 85°C (30 Volt @ 200°C)											
68	C	1.50	1	5	25	1400	718-1791-ND ***NEW!***	90.13	84.50	73.23	134D686X9050C6
220	F	0.90	2	10	10	2300	718-1688-ND ***NEW!***	98.02	92.95	86.19	134D227X9050F6
470	T	0.75	3	25	8	2650	718-1792-ND ***NEW!***	114.36	108.45	100.56	134D477X9050T6
680	K	0.70	5	40	5	2900	718-1245-ND	130.69	123.93	114.92	134D687X9050K6
60 Volt @ 85°C (36 Volt @ 200°C)											
47	C	2.00	1	5	40	1250	718-1793-ND ***NEW!***	90.13	84.50	73.23	134D476X9060C6
150	F	1.10	2	10	15	2050	718-1794-ND ***NEW!***	98.02	92.95	86.19	134D157X9060F6
390	T	0.90	3	25	10	2450	718-1795-ND ***NEW!***	114.36	108.45	100.56	134D397X9060T6
560	K	0.80	5	40	6	2700	718-1244-ND	130.69	123.93	114.92	134D567X9060K6
75 Volt @ 85°C (45 Volt @ 200°C)											
33	C	2.50	1	5	50	1100	718-1796-ND ***NEW!***	90.13	84.50	73.23	134D336X9075C6
110	F	1.30	2	10	20	1900	718-1797-ND ***NEW!***	98.02	92.95	86.19	134D117X9075F6
180	F	1.50	5	25	30	2000	718-1738-ND ***NEW!***	144.70	137.22	127.24	134D187X9075F6
330	T	1.00	3	30	12	2300	718-1798-ND ***NEW!***	114.36	108.45	100.56	134D337X9075T6
470	K	0.90	5	50	7	2550	718-1243-ND	130.69	123.93	114.92	134D477X9075K6
100 Volt @ 85°C (60 Volt @ 200°C)											
15	C	3.50	1	5	100	950	718-1799-ND ***NEW!***	90.13	84.50	73.23	134D156X9100C6
68	F	2.10	2	10	30	1500	718-1800-ND ***NEW!***	98.02	92.95	86.19	134D686X9100F6
150	T	1.60	3	25	18	1800	718-1801-ND ***NEW!***	114.36	108.45	100.56	134D157X9100T6
220	K	1.20	5	50	16	2200	718-1247-ND	130.69	123.93	114.92	134D227X9100K6
400	K	0.70	10	120	15	3250	718-1739-ND ***NEW!***	203.01	196.37	180.86	134D407X9100K6
125 Volt @ 85°C (75 Volt @ 200°C)											
10	C	5.50	1	5	150	750	718-1802-ND ***NEW!***	90.13	84.50	73.23	134D106X9125C6
47	F	2.30	2	10	40	1450	718-1803-ND ***NEW!***	98.02	92.95	86.19	134D476X9125F6
50	F	2.30	3	10	40	1450	718-1804-ND ***NEW!***	98.02	92.95	86.19	134D506X9125F6
100	T	1.80	3	25	30	1700	718-1805-ND ***NEW!***	114.36	108.45	100.56	134D107X9125T6
150	K	1.60	5	50	16	1900	718-1246-ND	130.69	123.93	114.92	134D157X9125K6

VISHAY **Sprague**

RoHS COMPLIANT

SuperTan® Wet Tantalum Capacitors with Hermetic Seal
for -55°C ~ 125°C Operations — ST and STE Series

Vishay ST and extended STE represent a major breakthrough in wet tantalum capacitor technology. Their unique cathode system provides the highest capacitance per unit volume. The design facilitates a doubling of capacitance, lower ESR and higher ripple current rating compared with conventional wet tantalum products. Moreover, the ST (and STE) have the capacitance stability of a solid tantalum capacitor and there are no circuit impedance restrictions. The ST is housed in an all tantalum, hermetically sealed case and is manufactured to withstand hazardous environments. The ST is used widely in the defense and aerospace industries and whenever there is a space problem. The STE is exceptionally well suited for low voltage filtering and energy storage applications. It also is ideal for designs targeting the military and aerospace industry. **Features:** • Very High Capacitance • Very Low ESR • High Ripple Current • Low DCL **Performance Characteristics**: Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating) **Physical Characteristics:** • All Tantalum Case • Hermetically Sealed • Insulated • Tinned nickel leads (solderable and weldable)

Case Code	Dimensions (mm)			Approximate Weight (grams)
	D (Max.)	L (+ 0.79)	E (± 6.35 Max.)	
L2	7.92	25.60	57.15	9.0
T1	5.56	11.51	38.10	2.3
T2	7.92	16.28	57.15	5.7
T3	10.31	19.46	57.15	9.4
T4	10.31	26.97	57.15	14.8

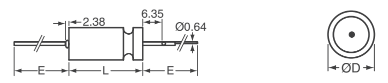

Cap. @ 25°C 120Hz (µF)	Cap. Toler-ance	Case Code	Max. ESR 120Hz (Ω)	Max. DCL (µA)		Max. IMP. @ -55°C; 120Hz (Ω)	AC Ripple 85°C; 40kHz mA rms	Digi-Key Part No.	Price Each			Vishay Part No.
				25°C	85°C/125°C				1	10	100	
ST Series												
30 Volt @ 85°C (20 Volt @ 125°C)												
470	10%	T2	0.85	2	10	15	1800	718-1242-ND	73.70	69.10	59.89	ST470-30T2KI
50 Volt @ 85°C (30 Volt @ 125°C)												
220	10%	T2	0.9	2	10	17.5	1800	718-1241-ND	73.70	69.10	59.89	ST220-50T2KI
680	10%	T4	0.7	5	40	8	2750	718-1239-ND	112.78	106.95	99.18	ST680-50T4KI
60 Volt @ 85°C (40 Volt @ 125°C)												
150	10%	T2	1.1	2	10	20	1800	718-1240-ND	73.70	69.10	59.89	ST150-60T2KI
370	20%	L2	0.6	3	25	9	2900	718-1689-ND ***NEW!***	92.48	86.70	75.14	ST370-60L2MI
560	10%	T4	0.8	5	40	10	2750	718-1238-ND	112.78	106.95	99.18	ST560-60T4KI
75 Volt @ 85°C (50 Volt @ 125°C)												
33	10%	T1	2.5	1	5	66	1050	718-1694-ND ***NEW!***	61.48	57.64	49.96	ST33-75T1KI
110	10%	T2	1.3	2	10	24	1650	718-1693-ND ***NEW!***	73.70	69.10	59.89	ST110-75T2KI
330	10%	T3	1.0	3	30	12	2100	718-1236-ND	87.10	82.60	76.59	ST330-75T3KI
470	10%	T4	0.9	5	50	12	2750	718-1237-ND	112.78	106.95	99.18	ST470-75T4KI
100 Volt @ 85°C (65 Volt @ 125°C)												
68	20%	T2	2.1	2	10	37	1650	718-1690-ND ***NEW!***	68.24	63.98	55.45	ST68-100T2MI
220	10%	T4	1.2	5	50	15	2750	718-1235-ND	112.78	106.95	99.18	ST220-100T4KI
125 Volt @ 85°C (85 Volt @ 125°C)												
10	10%	T1	5.5	1	5	175	1050	718-1692-ND ***NEW!***	61.48	57.64	49.96	ST10-125T1KI
47	10%	T2	2.3	2	10	47	1650	718-1695-ND ***NEW!***	73.70	69.10	59.89	ST47-125T2KI
150	10%	T4	1.6	5	50	20	2750	718-1234-ND	112.78	106.95	99.18	ST150-125T4KI
STE Series												
10 Volt @ 85°C												
4700	10%	T3	0.35	16	100	3.5	4000	718-1686-ND	126.67	120.12	111.39	STE4700-10T3KI
10000	20%	T4	0.25	25	150	3.0	5000	718-1681-ND	220.22	213.02	196.20	STE10000-10T4MI
16 Volt @ 85°C (11 Volt @ 125°C)												
3300	20%	T3	0.35	16	100	3.5	4000	718-1684-ND	130.22	123.49	114.51	STE3300-16T3MI
6000	20%	T4	0.3	25	150	3.0	4500	718-1685-ND	164.93	159.54	146.94	STE6000-16T4MI
60 Volt @ 85°C (40 Volt @ 125°C)												
1000	20%	T4	0.5	20	120	5.5	3500	718-1682-ND	139.14	131.95	122.35	STE1000-60T4MI
75 Volt @ 85°C (50 Volt @ 125°C)												
180	10%	T2	1.50	5	25	30	2000	718-1683-ND	76.30	71.54	62.00	STE180-75T2KI
750	10%	T4	0.5	20	120	6.5	3500	718-1687-ND	125.02	118.56	109.94	STE750-75T4KI
NEW! 100 Volt @ 85°C (65 Volt @ 125°C) NEW!												
400	20%	T4	0.70	10	120	15	3000	718-1691-ND	125.00	118.54	109.92	STE400-100T4MI

F

NEW! Wet Tantalum Capacitors with Surface Mount Molded Case for -55°C ~ 125°C Operations — M34 and M35 Series

Features: • Terminations: Standard tin/lead (Sn/Pb) • Very high capacitance • Very low ESR • High ripple current capability • Low DCL • Models M34 and M35 wet tantalum electrolytic chip capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. The M35 units have a 3V reverse voltage capability at 85°C. The M34 has a 1.5V transient reverse voltage capability. They both have higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size. **See datasheet for additional specifications.**

Case Code	Dimensions (mm)						Weight (g) (Typical)
	L (Max.)	W	H	P (Min.)	T_W	T_H (Min.)	
C	21.2	8 ± 0.3	7.5 ± 0.3	3.0	6.0 ± 0.3	1.9	3.5

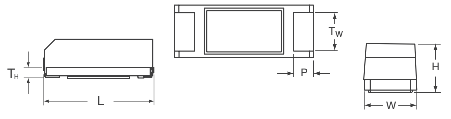

Cap. @ 25°C 120Hz (µF)	Cap. Toler-ance	Case Code	Max. ESR 120Hz (Ω)	Max. DCL (µA)		Max. IMP. @ -55°C; 120Hz (Ω)	AC Ripple 85°C; 40kHz (mA) rms	Digi-Key Part No.	Price Each			Vishay Part No.
				25°C	85°C/125°C				1	10	100	
M34 Series												
30 Volt @ 85°C (20 Volt @ 125°C)												
100	10%	C	1.3	1.0	5.0	25	1200	718-1696-ND	65.57	61.47	53.28	M34C107K030BZSS
50 Volt @ 85°C (30 Volt @ 125°C)												
68	10%	C	1.5	1.0	5.0	35	1050	718-1697-ND	65.57	61.47	53.28	M34C686K050BZSS
60 Volt @ 85°C (40 Volt @ 125°C)												
47	10%	C	2.0	1.0	5.0	44	1050	718-1698-ND	65.57	61.47	53.28	M34C476K060BZSS
75 Volt @ 85°C (50 Volt @ 125°C)												
33	10%	C	2.5	1.0	5.0	66	1050	718-1699-ND	65.57	61.47	53.28	M34C336K075BZSS
100 Volt @ 85°C (65 Volt @ 125°C)												
15	10%	C	3.5	1.0	5.0	125	1050	718-1700-ND	65.57	61.47	53.28	M34C156K100BZSS
125Volt @ 85°C (85 Volt @ 125°C)												
10	10%	C	5.5	1.0	5.0	175	1050	718-1701-ND	65.57	61.47	53.28	M34C106K125BZSS
M35 Series												
50 Volt @ 85°C (30 Volt @ 125°C)												
10	10%	C	6.4	1.0	2.0	250	715	718-1702-ND	58.54	55.29	44.72	M35C106K050BZSS
33	10%	C	5.0	2.0	9.0	135	700	718-1703-ND	58.54	55.29	44.72	M35C336K050BZSS
60 Volt @ 85°C (40 Volt @ 125°C)												
27	10%	C	5.0	3.0	12	144	700	718-1704-ND	58.54	55.29	44.72	M35C276K060BZSS
75 Volt @ 85°C (50 Volt @ 125°C)												
22	10%	C	5.1	3.0	12	157	600	718-1705-ND	58.54	55.29	44.72	M35C226K075BZSS
100 Volt @ 85°C (65 Volt @ 125°C)												
10	10%	C	5.9	3.0	12	200	800	718-1706-ND	58.54	55.29	44.72	M35C106K100BZSS
125 Volt @ 85°C (85 Volt @ 125°C)												
6.8	10%	C	11.7	3.0	12	300	700	718-1707-ND	58.54	55.29	44.72	M35C685K125BZSS

Wet Tantalum Capacitors with Tantalum-Case and Glass-to-Tantalum Hermetic Seal
for -55°C ~ 125°C Operations — HE3 Series

Features: • Highest capacitance per unit volume • All tantalum, hermetically sealed case • Withstands high stress and hazardous environments • Unique double seal for improved reliability and performance

Operating Temperature: -55°C ~ 85°C (to 125°C with voltage derating)

Capacitance Tolerance: At 120Hz, 25°C ±20%

Applications: • Airborne radar • Military • Weapons systems • Pulse power devices

See datasheet for additional specifications

Fig. 1

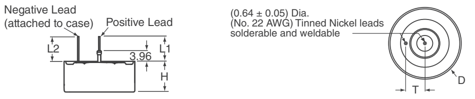

Fig. 2 ***NEW!***

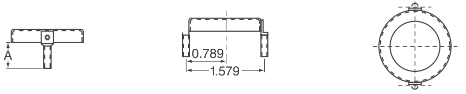

Case Code	Fig. 1 — Dimensions (mm)					Weight (g) (Typical)
	D	H	L2 (Min.)	L1 (Min.)	T	
C	35.56 ±0.127	15.6 ±0.4	12.70	12.70	10.2 ±0.38	95.0

Fig.	Capaci-tance (µF)	Case Code	Max. ESR @ 25°C 1kHz (Ω)	Max. DCL @ 25°C (µA)	Digi-Key Part No.	Price Each			Vishay Part No.
						1	10	100	
25 Volt @ 85°C (15 Volt @ 125°C)									
1	72000	C	0.035	350	718-1678-ND	615.64	590.19	555.47	HE3C723M025BZSS
50 Volt @ 85°C (30 Volt @ 125°C)									
1	24000	C	0.035	400	718-1679-ND	606.60	581.52	547.31	HE3C243M050BZSS
63 Volt @ 85°C (40 Volt @ 125°C)									
1	12000	C	0.035	400	718-1680-ND	606.60	581.52	547.31	HE3C123M063BZSS

NEW! Mounting Brackets for HE3 Series

Fig.	Description	Dimension (mm) A (±0.010)	Digi-Key Part No.	Price Each			Vishay Part No.
				1	10	100	
2	Bracket with spacer for A Case size	0.572	718-1708-ND	28.50	27.00	21.75	HE3BKT004
	Bracket with spacer for B Case size	0.699	718-1709-ND	32.30	30.60	24.65	HE3BKT005
	Bracket with spacer for C Case size	0.831	718-1710-ND	36.10	34.20	27.55	HE3BKT006

Panasonic B-Series Polyester Capacitors

PANASONIC ECQ-B CROSS REFERENCE:

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TRW:** 601PE, 601CPE; **Packtron:** PE, FM; **Secor:** MFDW, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1898; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissei:** AMZ, AMX, AMR, AMM.

SPECIFICATIONS:
- **Operating Temp. Range:** -40°C ~ 85°C
- **Rated Voltage:** DC 50V, 100V, 200V
- **Capacitance Range:** .0001 ~ 0.47μF
- **Capacitance Tolerance:** ±5% (J), ±10% (K)
- **Dissipation Factor:** 1.0% (20°C, 1kHz)
- **Withstand Voltage:** Between Terminals: rated voltage(V, DC) x 250% 1 ~ 5 sec.
- **Insulation Resistance:** C≤ 0.33μF: 30000MΩ min. (20°C, 50VDC 60s: ECQB1H(F), C > 0.33μF: 10000MΩ min. (20°C, 100VDC 60s: ECQB1(F), ECQB2(F)
- **Construction:** Polyester film, non-inductive, epoxy coating.

FEATURES:

High volumetric efficiency; non-inductive construction; low-loss, high stability; and epoxy resin coating.

APPLICATIONS:

Blocking, by-pass and coupling of DC and signal to VHF range; pulse, logic and timing circuits; light duty pulse forming networks; filter & noise suppression circuits; and general purpose usage.

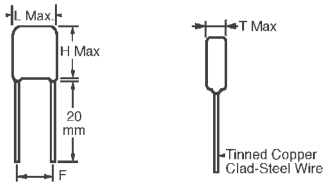

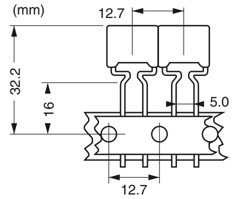

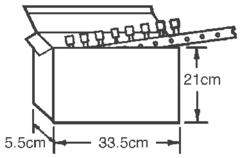

Cap. μF	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Panasonic Part No.
		L	T	H	F		1	50	100	
50WV (Bulk Pkg.) — RoHS Compliant										
.00015	±10%	7.0	3.0	6.0	5.0	P4572-ND	.23	4.61	7.78	ECQ-B1H151KF
.00022	±10%	7.0	3.0	6.0	5.0	P4574-ND	.23	4.61	7.78	ECQ-B1H221KF
.00039	±10%	7.0	3.0	6.0	5.0	P4577-ND	.23	4.61	7.78	ECQ-B1H391KF
.00047	±5%	7.0	3.0	6.0	5.0	P4578-ND	.23	4.61	7.78	ECQ-B1H471JF
.01	±5%	7.0	3.0	6.0	5.0	P4582-ND	.23	4.61	7.78	ECQ-B1H103JF
.018	±5%	7.5	3.0	6.0	5.0	P4585-ND	.20	4.61	7.84	ECQ-B1H183JF
.027	±5%	7.5	3.5	6.5	5.0	P4587-ND	.21	4.79	8.13	ECQ-B1H273JF
.033	±5%	7.5	3.5	6.5	5.0	P4569-ND	.22	4.96	8.43	ECQ-B1H333JF
.039	±5%	7.5	4.0	7.0	5.0	P4588-ND	.22	5.13	8.72	ECQ-B1H393JF
.056	±5%	8.0	4.3	7.5	5.0	P4590-ND	.25	5.64	9.59	ECQ-B1H563JF
.082	±5%	8.0	4.5	9.0	5.0	P4592-ND	.25	5.99	10.27	ECQ-B1H823J
.18	±5%	11.0	6.0	12.4	7.5	P4596-ND	.59	15.68	27.32	ECQ-B1H184JF
.22	±5%	11.0	6.0	13.0	7.5	P4597-ND	.54	15.87	27.21	ECQ-B1H224JF
.27	±5%	13.0	6.0	14.4	10.0	P4598-ND	.67	19.84	34.02	ECQ-B1H274JF
.33	±5%	13.0	6.0	15.0	10.0	P4599-ND	.73	21.41	36.70	ECQ-B1H334JF
.39	±5%	13.0	6.5	15.4	10.0	P4734-ND	.71	22.30	38.41	ECQ-B1H394JF
100WV (Bulk Pkg.)										
.00018	±5%	7.2	3.0	6.0	5.0	P4776-ND◆	.42	10.19	17.46	ECQ-B1181JF
.00027	±5%	7.2	3.0	6.0	5.0	P4778-ND	.42	10.19	17.46	ECQ-B1271JF
.00047	±5%	7.2	3.0	6.0	5.0	P4781-ND◆	.29	6.61	11.24	ECQ-B1471JF
.00056	±5%	7.2	3.0	6.0	5.0	P4782-ND◆	.29	6.61	11.24	ECQ-B1561JF
.00082	±5%	7.2	3.0	6.0	5.0	P4784-ND◆	.29	6.61	11.24	ECQ-B1821JF
.0012	±5%	7.2	3.0	6.0	5.0	P4786-ND◆	.29	6.61	11.24	ECQ-B1122JF
.0039	±5%	7.2	3.0	6.5	5.0	P4792-ND◆	.29	6.61	11.24	ECQ-B1392JF
.012	±5%	7.2	3.5	7.0	5.0	P4798-ND	.29	6.61	11.24	ECQ-B1123JF
.015	±5%	7.2	4.0	7.5	5.0	P4799-ND◆	.25	6.01	10.30	ECQ-B1153JF
.018	±5%	7.2	4.5	8.0	5.0	P4647-ND◆	.26	6.41	10.99	ECQ-B1183JF
.027	±5%	7.5	5.0	9.5	5.0	P4649-ND◆	.30	7.21	12.35	ECQ-B1273JF
.056	±5%	10.0	5.0	12.0	7.5	P4653-ND◆	.31	7.42	12.71	ECQ-B1563JF
.082	±5%	10.0	5.5	14.0	7.5	P4655-ND◆	.32	7.76	13.30	ECQ-B1823JF
.12	±5%	10.5	7.0	15.2	7.5	P4657-ND◆	.42	11.26	19.61	ECQ-B1124JF
.22	±5%	13.0	8.0	15.2	10.0	P4660-ND◆	.55	16.28	27.91	ECQ-B1224JF
.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	.62	18.32	31.40	ECQ-B1274JF
.33	±5%	13.0	9.0	18.0	10.0	P4662-ND◆	.69	20.35	34.88	ECQ-B1334JF
.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	.75	23.58	40.61	ECQ-B1394JF
.47	±5%	13.0	11.5	19.2	10.0	P4664-ND◆	.83	28.43	49.21	ECQ-B1474JF

Cap. μF	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Panasonic Part No.
		L	T	H	F		1	50	100	
200WV (Bulk Pkg.)										
.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND◆	.29	6.97	11.94	ECQ-B2122JF
.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND◆	.29	6.97	11.94	ECQ-B2182JF
.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND◆	.29	6.97	11.94	ECQ-B2392JF
.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND◆	.29	6.97	11.94	ECQ-B2682JF
.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND◆	.29	6.97	11.94	ECQ-B2822JF
.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND◆	.29	6.97	11.94	ECQ-B2123JF
.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	.32	7.71	13.23	ECQ-B2183JF
.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	.36	8.66	14.84	ECQ-B2273JF
.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	.36	8.82	15.13	ECQ-B2333JF
.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	.36	8.82	15.13	ECQ-B2393JF
.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	.37	8.90	15.25	ECQ-B2563JF
.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	.37	9.11	15.61	ECQ-B2683JF
.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND◆	.38	9.30	15.95	ECQ-B2823JF
.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND◆	.51	13.52	23.55	ECQ-B2124JF
.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	.61	16.20	28.22	ECQ-B2154JF
.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	.58	17.10	29.32	ECQ-B2184JF
.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND◆	.66	19.54	33.50	ECQ-B2224JF
.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND◆	.67	21.24	36.57	ECQ-B2274JF
.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND◆	.75	23.59	40.63	ECQ-B2334JF
.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	.90	28.30	48.74	ECQ-B2394JF
.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND	1.00	34.13	59.08	ECQ-B2474JF

Cap. μF	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Tape and Box		Panasonic Part No.
		L	T	H	F		Qty.	Pricing	
50WV (Ammo Box Pkg.)									
.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND◆	2,000	45.04/M	ECQ-B1H151KF3
.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	2,000	45.04/M	ECQ-B1H181KF3
.01	±5%	7.0	3.0	6.0	5.0	P4582TB-ND◆	2,000	45.04/M	ECQ-B1H103JF3
.018	±5%	7.5	3.0	6.0	5.0	P4585TB-ND◆	2,000	46.15/M	ECQ-B1H183JF3
.027	±5%	7.5	3.5	6.5	5.0	P4587TB-ND◆	2,000	47.85/M	ECQ-B1H273JF3
.039	±5%	7.5	4.0	7.0	5.0	P4588TB-ND	2,000	51.27/M	ECQ-B1H393JF3
.056	±5%	8.0	4.3	7.5	5.0	P4590TB-ND	1,000	59.22	ECQ-B1H563JF3
.082	±5%	8.0	4.5	9.0	5.0	P4592TB-ND◆	1,000	65.06	ECQ-B1H823JF3
.12	±5%	11.0	5.0	11.6	5.0	P4594TB-ND◆	1,000	142.57	ECQ-B1H124JF3

◆ ***RoHS Compliant***

Panasonic® V-Series ±5% Stacked Metallized Film Capacitors

Suitable for Replacement of Monolithic Ceramic Capacitors in Most Cases

FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: -40°C ~ 85°C • Temperature coefficientΔc/c: 200 ppm • Dissipation factor (maximum): 1.0% • Insulation resistance (25°C): 1000MΩ µF • Self-healing

APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF Thompson:** IRD
Siemens: B32509.

(To convert millimeters to inches divide by 25.4)

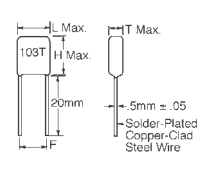

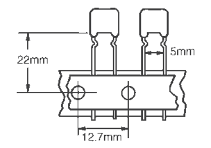

Note: All taped parts have 5mm lead space.

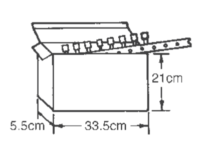

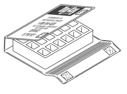

*** Panasonic V-Series Stacked Metallized Film Capacitors**

Digi-Key® V-Series Capacitors Kit

P4542-KIT-ND* (50 Volt K) $49.95
P4700-KIT-ND† (100 Volt K) $49.95

Includes 10 each of those parts indicated below (* or †). 180 capacitors. 10 each of the values listed in the chart. Price includes a notebook style storage box with bin guide for easy storage and quick access.

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing				Panasonic Part No.
		L	T	H	F		1	50	100	500	
						Bulk Package					
50	0.01	7.3	3.2	5.0	5.0	P4513-ND*◆	.29	6.58	11.19	39.48	ECQ-V1H103JL
	0.012	7.3	3.2	5.0	5.0	P4514-ND◆	.31	7.16	12.17	42.96	ECQ-V1H123JL
	0.015	7.3	3.2	5.0	5.0	P4515-ND*◆	.31	7.16	12.17	42.96	ECQ-V1H153JL
	0.018	7.3	3.2	5.0	5.0	P4516-ND◆	.31	7.16	12.17	42.96	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517-ND*◆	.33	7.58	12.89	45.48	ECQ-V1H223JL
	0.027	7.3	3.2	5.0	5.0	P4518-ND*◆	.34	7.78	13.23	46.68	ECQ-V1H273JL
	0.033	7.3	3.2	5.0	5.0	P4519-ND*◆	.29	7.16	12.27	46.01	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520-ND◆	.30	7.39	12.66	47.48	ECQ-V1H393JL
	0.047	7.3	3.2	5.0	5.0	P4521-ND	.27	6.14	10.44	36.84	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522-ND◆	.27	6.14	10.44	36.84	ECQ-V1H563JL
	0.068	7.3	3.2	5.0	5.0	P4523-ND*◆	.28	6.34	10.78	38.04	ECQ-V1H683JL
	0.082	7.3	3.6	5.0	5.0	P4524-ND*◆	.29	6.54	11.12	39.24	ECQ-V1H823JL
	0.1	7.3	4.0	5.0	5.0	P4525-ND*◆	.29	6.54	11.12	39.24	ECQ-V1H104JL
	0.12	7.3	4.0	5.0	5.0	P4526-ND◆	.30	6.96	11.83	41.76	ECQ-V1H124JL
	0.15	10.2	3.4	9.0	7.5	P4538-ND	.43	10.34	17.72	66.45	ECQ-V1H154JC
	0.15	7.3	4.4	5.5	5.0	P4665-ND*◆	.31	7.16	12.17	42.96	ECQ-V1H154JL
	0.18	7.3	4.5	5.5	5.0	P4666-ND*◆	.33	7.58	12.89	45.48	ECQ-V1H184JL
	0.22	7.3	4.8	5.5	5.0	P4667-ND◆	.29	7.16	12.27	46.01	ECQ-V1H224JL
	0.27	7.3	4.6	7.0	5.0	P4668-ND*◆	.31	7.53	12.90	48.38	ECQ-V1H274JL
	0.33	7.3	5.2	7.0	5.0	P4669-ND*◆	.33	8.05	13.80	51.75	ECQ-V1H334JL
	0.39	7.3	5.7	7.3	5.0	P4670-ND◆	.36	8.77	15.03	56.36	ECQ-V1H394JL
	0.47	7.3	6.0	7.3	5.0	P4671-ND*◆	.40	9.66	16.56	62.10	ECQ-V1H474JL
	0.56	7.3	5.8	10.0	5.0	P4672-ND*◆	.47	11.46	19.65	73.69	ECQ-V1H564JL
	0.68	7.3	6.5	10.0	5.0	P4673-ND*◆	.57	15.22	26.51	98.20	ECQ-V1H684JL
	0.82	7.3	6.8	10.0	5.0	P4674-ND*◆	.57	15.22	26.51	98.20	ECQ-V1H824JL
	1.0	7.3	8.0	11.0	5.0	P4675-ND*◆	.68	18.23	31.75	117.60	ECQ-V1H105JL
63	0.18	10.2	3.5	9.0	7.5	P4539-ND◆	.34	7.74	13.16	46.44	ECQ-V1J184JM
	0.22	10.2	3.5	9.0	7.5	P4540-ND◆	.30	7.30	12.51	46.91	ECQ-V1J224JM
	0.27	10.2	3.5	9.0	7.5	P4541-ND◆	.32	7.68	13.17	49.39	ECQ-V1J274JM
	0.33	10.2	3.8	9.0	7.5	P4549-ND◆	.34	8.23	14.10	52.88	ECQ-V1J334JM
	0.39	10.2	4.0	9.0	7.5	P4543-ND	.37	8.96	15.36	57.60	ECQ-V1J394JM
	0.47	10.2	4.5	9.0	7.5	P4544-ND◆	.41	9.87	16.92	63.45	ECQ-V1J474JM
	0.56	10.2	4.9	9.0	7.5	P4545-ND◆	.48	11.69	20.04	75.15	ECQ-V1J564JM
	0.68	10.2	5.5	10.0	7.5	P4546-ND◆	.58	15.53	27.05	100.20	ECQ-V1J684JM
	0.82	10.2	6.1	10.0	7.5	P4547-ND◆	.58	15.53	27.05	100.20	ECQ-V1J824JM
	1.0	10.2	6.9	10.0	7.5	P4548-ND◆	.70	18.60	32.40	120.00	ECQ-V1J105JM
100	0.01	7.3	3.2	7.0	5.0	P4713-ND†◆	.29	7.04	12.06	45.23	ECQ-V1103JM
	0.012	7.3	3.2	7.0	5.0	P4714-ND◆	.29	7.04	12.06	45.23	ECQ-V1123JM
	0.015	7.3	3.2	7.0	5.0	P4715-ND†◆	.29	7.04	12.06	45.23	ECQ-V1153JM
	0.018	7.3	3.2	7.0	5.0	P4716-ND◆	.31	7.46	12.78	47.93	ECQ-V1183JM
	0.022	7.3	3.2	7.0	5.0	P4717-ND†◆	.31	7.65	13.11	49.16	ECQ-V1223JM
	0.027	7.3	3.2	7.0	5.0	P4718-ND†	.33	8.05	13.80	51.75	ECQ-V1273JM
	0.033	7.3	3.2	7.0	5.0	P4719-ND†◆	.34	8.30	14.22	53.33	ECQ-V1333JM
	0.039	7.3	3.2	7.0	5.0	P4720-ND†◆	.30	7.35	12.60	47.25	ECQ-V1393JM
	0.047	7.3	4.0	7.0	5.0	P4721-ND†◆	.30	6.90	11.73	41.40	ECQ-V1473JM
	0.056	7.3	4.2	7.0	5.0	P4722-ND†	.31	7.14	12.14	42.84	ECQ-V1563JM
	0.068	7.3	4.5	7.0	5.0	P4723-ND†◆	.32	7.36	12.51	44.16	ECQ-V1683JM
	0.082	7.3	5.0	7.0	5.0	P4724-ND†◆	.32	7.36	12.51	44.16	ECQ-V1823JM
	0.1	7.3	5.8	7.0	5.0	P4725-ND†◆	.34	7.82	13.29	46.92	ECQ-V1104JM
	0.12	10.0	3.4	9.0	7.5	P4726-ND◆	.29	7.04	12.06	45.23	ECQ-V1124JM
	0.15	10.0	3.8	9.0	7.5	P4727-ND†◆	.31	7.46	12.78	47.93	ECQ-V1154JM
	0.18	10.0	4.0	9.0	7.5	P4728-ND†◆	.33	8.05	13.80	51.75	ECQ-V1184JM
	0.22	10.0	4.3	9.0	7.5	P4729-ND†◆	.35	8.47	14.52	54.45	ECQ-V1224JM
	0.27	10.0	5.2	10.0	7.5	P4730-ND†◆	.37	9.05	15.51	58.16	ECQ-V1274JM
	0.33	10.0	5.9	10.0	7.5	P4731-ND†◆	.41	9.87	16.92	63.45	ECQ-V1334JM
	0.39	10.0	7.5	11.0	7.5	P4732-ND†◆	.45	10.87	18.63	69.86	ECQ-V1394JM
	0.47	10.0	8.1	11.0	7.5	P4733-ND†◆	.43	11.41	19.87	73.60	ECQ-V1474JM

◆ ***RoHS Compliant***

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
		L	T	H	F		1,000	2,000	5,000	6,000	10,000	26,000	
						Ammo Box Package — RoHS Compliant							
50	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	69.60/M	—	64.38/M	60.90/M	55.68/M	ECQ-V1H103JL3
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	71.60/M	—	66.23/M	62.65/M	57.28/M	ECQ-V1H123JL3
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	71.60/M	—	66.23/M	62.65/M	57.28/M	ECQ-V1H153JL3
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	71.60/M	—	66.23/M	62.65/M	57.28/M	ECQ-V1H183JL3
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	53.80/M	—	49.77/M	47.08/M	43.04/M	ECQ-V1H223JL3
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	77.80/M	—	71.97/M	68.08/M	62.24/M	ECQ-V1H273JL3
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	73.62/M	—	69.53/M	65.44/M	61.35/M	ECQ-V1H333JL3
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	75.96/M	—	71.74/M	67.52/M	63.30/M	ECQ-V1H393JL3
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	61.40/M	—	56.80/M	53.73/M	49.12/M	ECQ-V1H473JL3
	0.056	7.3	3.2	9.0	5.0	P4522TB-ND	—	61.40/M	—	56.80/M	53.73/M	49.12/M	ECQ-V1H563JL3
	0.068	7.3	3.2	9.0	5.0	P4523TB-ND	—	63.40/M	—	58.65/M	55.48/M	50.72/M	ECQ-V1H683JL3
	0.082	7.3	3.6	9.0	5.0	P4524TB-ND	—	65.40/M	—	60.50/M	57.23/M	52.32/M	ECQ-V1H823JL3
	0.1	7.3	4.0	9.0	5.0	P4525TB-ND	—	65.40/M	—	60.50/M	57.23/M	52.32/M	ECQ-V1H104JL3
	0.12	7.3	4.0	9.0	5.0	P4526TB-ND	—	65.40/M	—	60.50/M	57.23/M	52.32/M	ECQ-V1H124JL3
	0.15	7.3	4.4	9.5	5.0	P4527TB-ND	75.18	—	66.23/M	—	62.65/M	—	ECQ-V1H154JL3
	0.18	7.3	4.5	9.5	5.0	P4528TB-ND	79.59	—	70.12/M	—	66.33/M	—	ECQ-V1H184JL3
	0.22	7.3	4.8	9.5	5.0	P4529TB-ND	77.71	—	69.53/M	—	65.44/M	—	ECQ-V1H224JL3
	0.27	7.3	4.6	11.0	5.0	P4530TB-ND	81.70	—	73.10/M	—	68.80/M	—	ECQ-V1H274JL3
	0.33	7.3	5.2	11.0	5.0	P4531TB-ND	87.40	—	78.20/M	—	73.60/M	—	ECQ-V1H334JL3
	0.39	7.3	5.7	11.3	5.0	P4532TB-ND	95.19	—	85.17/M	—	80.16/M	—	ECQ-V1H394JL3
	0.47	7.3	6.0	11.3	5.0	P4533TB-ND	104.88	—	93.84/M	—	88.32/M	—	ECQ-V1H474JL3
	0.56	7.3	5.8	14.0	5.0	P4534TB-ND	124.45	—	111.35/M	—	104.80/M	—	ECQ-V1H564JL3
	0.68	7.3	6.5	14.0	5.0	P4535TB-ND	166.94	—	147.30/M	—	137.48/M	—	ECQ-V1H684JL3
	0.82	7.3	6.8	14.0	5.0	P4536TB-ND	166.94	—	147.30/M	—	137.48/M	—	ECQ-V1H824JL3
	1.0	7.3	8.0	15.0	5.0	P4537TB-ND	199.92	—	176.40/M	—	164.64/M	—	ECQ-V1H105JL3

Panasonic® E-Series Metallized Polyester Capacitors

General Specifications: Electrical: Rated Voltage 100VDC, 250VDC, 400VDC, 630VDC **Capacitance Tolerance** ±10% (K) **Insulation Resistance:** Less than 0.33µF: 9,000MΩ; More than 0.33µF: 3,000MΩ **Dissipation Factor** = 1.0% at 1kHz **Withstanding Voltage** Rated Voltage X 1.5 (1 minute) **Operating Temperature** -40°C ~ 85°C

Pansonic ECQ-E Cross References: Sprague: DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Mepco:** 713A1/ 719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT1818/MKT1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **Rubycon:** MC/MN; **Nichicon:** DDXM.

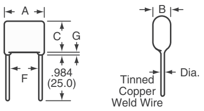

Working Voltage	Cap. µF	Dimensions (mm) A	B	C	F	G	Dia.	Digi-Key Part No.	Pricing 1	50	100	500	1,000	Panasonic Part No.
100	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.55	14.62	25.47	94.33	160.35	ECQ-E1184KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND◆	.53	15.63	26.80	106.09	178.67	ECQ-E1274KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND◆	.67	21.14	36.41	140.95	242.75	ECQ-E1564KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	.94	32.05	55.47	209.55	369.80	ECQ-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND◆	1.09	37.43	64.78	244.72	431.86	ECQ-E1155KZ
	2.7	25.5	10.0	18.5	22.5	1.0	.8	E1275-ND	1.56	53.45	92.51	349.50	616.76	ECQ-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND◆	1.79	63.00	110.25	420.01	735.01	ECQ-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND◆	2.02	71.39	124.94	475.96	832.93	ECQ-E1395KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND◆	2.71	95.74	167.55	638.30	1117.02	ECQ-E1565KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND◆	3.24	112.51	204.10	758.82	1427.80	ECQ-E1825KZ
250	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND◆	.44	11.83	20.61	76.32	129.74	ECQ-E2123KS
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.44	11.83	20.61	76.32	129.74	ECQ-E2183KS
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND◆	.44	11.83	20.61	76.32	129.74	ECQ-E2223KS
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND◆	.44	11.83	20.61	76.32	129.74	ECQ-E2273KS
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND◆	.44	11.83	20.61	76.32	129.74	ECQ-E2393KS
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND◆	.36	9.70	16.90	62.60	106.42	ECQ-E2473KS
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND	.47	12.49	21.76	80.61	137.03	ECQ-E2683KS
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND◆	.49	13.03	22.69	84.04	142.86	ECQ-E2823KS
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND◆	.57	15.15	26.39	97.76	166.18	ECQ-E2124KS
	.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND◆	.53	15.63	26.80	106.09	178.67	ECQ-E2184KS
	.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND◆	.64	18.88	32.37	128.12	215.78	ECQ-E2274KS
	.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.68	21.49	37.01	143.27	246.75	ECQ-E2394KS
	.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND◆	.73	23.00	39.61	153.34	264.09	ECQ-E2474KS
	.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.80	25.21	43.41	168.06	289.43	ECQ-E2564KS
	.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND◆	.86	29.47	51.01	192.70	340.06	ECQ-E2824KS
	1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND	.91	31.26	54.11	204.42	360.75	ECQ-E2105KS
	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND◆	1.00	34.29	59.35	224.21	395.66	ECQ-E2125KS
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND	1.29	44.15	76.42	288.68	509.44	ECQ-E2155KS
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.56	53.23	92.13	348.03	614.18	ECQ-E2185KS
400	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND◆	.60	15.95	27.78	102.90	174.93	ECQ-E4103KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND◆	.62	16.48	28.71	106.33	180.76	ECQ-E4153KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.54	15.99	27.42	108.53	182.80	ECQ-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND◆	.57	16.84	28.86	114.25	192.42	ECQ-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.58	17.08	29.27	115.88	195.16	ECQ-E4393KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND◆	.62	18.40	31.54	124.86	210.28	ECQ-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND◆	.66	19.48	33.40	132.20	222.65	ECQ-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND◆	.69	20.32	34.84	137.91	232.27	ECQ-E4823KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4154-ND◆	.76	24.05	41.41	160.31	276.09	ECQ-E4154KZ
	.27	24.5	9.0	16.5	20.5	1.0	.8	E4274-ND◆	.86	29.36	50.81	191.97	338.77	ECQ-E4274KZ
	.33	24.5	9.5	17.0	20.5	1.0	.8	E4334-ND◆	.92	31.60	54.69	206.62	364.63	ECQ-E4334KZ
	.39	29.5	9.5	16.5	25.5	1.5	.8	E4394-ND	1.00	34.29	59.35	224.21	395.66	ECQ-E4394KZ
	.56	29.5	11.0	18.0	25.5	1.5	.8	E4564-ND◆	1.18	40.34	69.82	263.77	465.48	ECQ-E4564KZ
	1.2	29.5	15.0	25.0	25.5	1.5	.8	E4125-ND	2.00	70.46	123.31	469.74	822.05	ECQ-E4125KZ
	1.5	43.5	13.0	22.0	38.5	1.5	.8	E4155-ND	2.15	75.85	132.74	505.67	884.91	ECQ-E4155KZ
	1.8	43.5	14.5	24.0	38.5	1.5	.8	E4185-ND	2.55	89.84	157.22	598.92	1048.12	ECQ-E4185KZ
	2.2	43.5	16.0	25.5	38.5	1.5	.8	E4225-ND	2.91	102.58	179.52	683.89	1196.81	ECQ-E4225KZ
630	.015	14.0	6.0	10.5	10.5	1.0	.6	E6153-ND	.56	16.60	28.45	112.61	189.67	ECQ-E6153KZ
	.022	14.0	6.5	12.0	10.5	1.0	.6	E6223-ND◆	.60	17.80	30.51	120.78	203.41	ECQ-E6223KZ
	.027	17.0	5.5	12.5	13.5	1.0	.6	E6273-ND	.62	18.40	31.54	124.86	210.28	ECQ-E6273KZ
	.033	17.0	6.0	12.0	13.5	1.0	.6	E6333-ND	.64	19.00	32.57	128.94	217.16	ECQ-E6333KZ
	.039	17.0	6.5	12.0	13.5	1.0	.6	E6393-ND◆	.66	19.48	33.40	132.20	222.65	ECQ-E6393KZ
	.056	17.0	7.5	14.0	13.5	1.0	.6	E6563-ND◆	.73	21.41	36.70	145.26	244.64	ECQ-E6563KZ
	.068	17.0	8.5	15.0	13.5	1.0	.6	E6683-ND◆	.71	22.30	38.41	148.69	256.09	ECQ-E6683KZ
	.082	17.0	9.0	16.0	13.5	1.0	.8	E6823-ND◆	.75	23.81	41.01	158.76	273.42	ECQ-E6823KZ
	.12	24.5	8.5	15.5	20.5	1.5	.8	E6124-ND	.89	28.11	48.42	187.42	322.77	ECQ-E6124KZ
	.18	24.5	10.0	17.0	20.5	1.5	.8	E6184-ND◆	.95	32.39	56.05	211.75	373.68	ECQ-E6184KZ
	.22	29.5	9.5	17.0	25.5	1.5	.8	E6224-ND◆	1.03	35.30	61.09	230.80	407.30	ECQ-E6224KZ
	.27	29.5	10.5	17.5	25.5	1.5	.8	E6274-ND◆	1.16	39.78	68.85	260.11	459.02	ECQ-E6274KZ
	.56	29.5	15.0	21.5	25.5	1.5	.8	E6564-ND	1.63	57.61	100.82	384.08	672.15	ECQ-E6564KZ
	.68	43.5	12.5	19.5	38.5	1.5	.8	E6684-ND	2.11	74.61	130.56	497.38	870.41	ECQ-E6684KZ
	.82	43.5	14.0	21.0	38.5	1.5	.8	E6824-ND	2.32	81.86	143.25	545.73	955.03	ECQ-E6824KZ
	1.2	43.5	16.0	25.5	38.5	1.5	.8	E6125-ND◆	2.70	93.73	170.02	632.14	1189.44	ECQ-E6125KZ
	1.5	43.5	18.5	27.0	38.5	1.5	.8	E6155-ND	3.30	114.56	207.81	772.62	1453.76	ECQ-E6155KZ

◆ ***RoHS Compliant***

EPCOS

Metallized Polypropylene Film Capacitors

RoHS COMPLIANT

AC Filtering: Applications: • UPS • Solar Inverters • Drives **Specifications:** • Maximum Operating Temperature: 105°C • Climatic Category (IEC 60068-1): 40/85/21 **Construction:** • Dielectric: Metallized Polypropilene Film • Plastic Case (UL 94 V-0) • Epoxy resin sealing (UL 94 V-0) **Features:** • Optimized AC voltage performance • High ripple current/frequency capability • Small dimensions • For PCB mounting

DC Link Capacitors for Industrial Applications: Construction: • Dielectric: Polypropylene (MKP) film • Plastic case (UL94V-0) • Epoxy resin sealing • Wound technology **Terminals:** • Parallel wire leads • Lead-free tinned **Features:** • Low ESR • Ideal for DC Link applications • 2 and/or 4 pin capacitors available (depending on required capacitance value)

High Voltage/High Temperature: Application: • Electronic ballasts (resonant circuits) • SMPS • High-Frequency AC Loads • Pulse Circuits **Specifications:** • Maximum Operating Temperature: 125°C • Climatic Category (IEC 60068-1): 55/110/56 **Construction:** • Dielectric: Metallized Polypropylene (PP) • Wound Capacitor Technology • Plastic Case (UL 94 V-0) • Epoxy resin coating **Features:** • Very high AC voltages for all frequency ranges • Very small dimensions • High peak voltage for short time periods • High peak current • High pulse withstand capability

Fig. 1

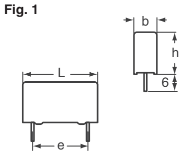

Fig. 2

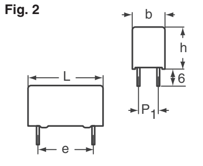

NEW! AC Filtering

WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)					Digi-Key Part No.	Pricing			Epcos Part No.
			b	h	L	e	P1		1	10	100	
Fig. 1												
250	2.5	±10%	11.0	19.0	31.5	27.5	—	495-4132-ND	3.18	24.09	204.53	B32794D2255K
	4.0	±10%	11.0	21.0	31.5	27.5	—	495-4133-ND	3.77	28.57	242.55	B32794D2405K
	6.3	±10%	15.0	24.5	31.5	27.5	—	495-4134-ND	5.83	44.18	375.08	B32794D2635K
	10	±10%	16.0	32.0	31.5	27.5	—	495-4135-ND	8.67	65.64	557.33	B32794D2106K
	15	±10%	22.0	36.5	31.5	27.5	—	495-4136-ND	12.24	92.67	786.83	B32794D2156K
	22	±10%	20.0	39.5	42.0	37.5	—	495-4142-ND	16.83	127.41	1081.80	B32796E2226K
	25	±10%	28.0	37.0	42.0	37.5	—	495-4144-ND	27.53	208.48	1770.08	B32796E2256K
	40	±10%	30.0	45.0	42.0	37.5	—	495-4146-ND	42.32	320.44	2720.70	B32796E2406K
300	2.0	±10%	11.0	19.0	31.5	27.5	—	495-4137-ND	2.59	19.61	166.50	B32794D3205K
	3.3	±10%	13.5	23.0	31.5	27.5	—	495-4138-ND	3.28	24.86	211.05	B32794D3335K
	5.0	±10%	14.0	24.5	31.5	27.5	—	495-4139-ND	8.05	60.95	517.50	B32794D3505K
	8.0	±10%	18.0	33.0	31.5	27.5	—	495-4140-ND	8.03	60.76	515.93	B32794D3805K
	12	±10%	22.0	36.5	31.5	27.5	—	495-4141-ND	10.20	77.22	655.65	B32794D3126K
	16	±10%	20.0	39.5	42.0	37.5	—	495-4148-ND	15.30	115.83	983.48	B32796E3166K
	20	±10%	28.0	37.0	42.0	37.5	—	495-4150-ND	24.99	189.18	1606.28	B32796E3206K
	30	±10%	30.0	45.0	42.0	37.5	—	495-4152-ND	37.73	285.70	2425.73	B32796E3306K
Fig. 2												
250	22	±10%	20.0	39.5	42.0	37.5	10.2	495-4143-ND	20.91	158.28	1343.93	B32796G2226K
	25	±10%	28.0	37.0	42.0	37.5	10.2	495-4145-ND	31.62	239.37	2032.43	B32796G2256K
	40	±10%	30.0	45.0	42.0	37.5	20.3	495-4147-ND	46.40	351.34	2983.05	B32796G2406K
	55	±10%	30.0	45.0	57.5	52.5	20.3	495-4153-ND	49.00	371.00	3150.00	B32798G2556K
	75	±10%	35.0	50.0	57.5	52.5	20.3	495-4154-ND	59.15	447.85	3802.50	B32798G2756K
300	16	±10%	20.0	39.5	42.0	37.5	10.2	495-4149-ND	19.38	146.70	1245.60	B32796G3166K
	20	±10%	28.0	37.0	42.0	37.5	10.2	495-4151-ND	29.06	220.06	1868.40	B32796G3206K
	40	±10%	30.0	45.0	57.5	52.5	20.3	495-4155-ND	42.32	320.44	2720.70	B32798G3406K
	55	±10%	35.0	50.0	57.5	52.5	20.3	495-4156-ND	50.99	386.08	3278.03	B32798G3556K

DC Link Capacitors for Industrial Applications

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)					Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e	P1		1	10	100	
Fig. 1													
300	160	6.8	±10%	18.0	27.5	31.5	27.5	—	495-2912-ND	4.17	31.60	268.31	B32674D3685K
	160	8.0	±10%	16.0	32.0	31.5	27.5	—	495-2913-ND	4.73	35.78	303.75	B32674D3805K
	160	10	±10%	21.0	31.0	31.5	27.5	—	495-2915-ND	5.20	39.35	334.13	B32674D3106K
	160	12	±10%	22.0	36.5	31.5	27.5	—	495-2916-ND	5.83	44.12	374.63	B32674D3126K
	160	3.3	±10%	12.0	22.0	42.0	37.5	—	495-2944-ND	3.94	29.81	253.13	B32676E3335K
	160	4.7	±10%	12.0	22.0	42.0	37.5	—	495-2945-ND	4.33	32.79	278.44	B32676E3475K
	160	5.6	±10%	14.0	25.0	42.0	37.5	—	495-2946-ND	4.73	35.78	303.75	B32676E3565K
	160	12	±10%	18.0	32.5	42.0	37.5	—	495-2950-ND	7.09	53.66	455.63	B32676E3126K
	160	15	±10%	20.0	39.5	42.0	37.5	—	495-2951-ND	8.66	65.59	556.88	B32676E3156K
	160	20	±10%	28.0	37.0	42.0	37.5	—	495-2952-ND	11.42	86.46	734.06	B32676E3206K
	160	25	±10%	28.0	42.5	42.0	37.5	—	495-2954-ND	11.81	89.44	759.38	B32676E3256K
450	275	1.5	±10%	11.0	19.0	31.5	27.5	—	495-2917-ND	1.73	13.12	111.38	B32674D4155K
	275	2.2	±10%	12.5	21.5	31.5	27.5	—	495-2918-ND	1.97	14.91	126.56	B32674D4225K
	275	3.3	±10%	15.0	24.5	31.5	27.5	—	495-2919-ND	2.52	19.08	162.00	B32674D4335K
	275	4.7	±10%	18.0	27.5	31.5	27.5	—	495-2920-ND	3.31	25.04	212.63	B32674D4475K
	275	5.0	±10%	16.0	32.0	31.5	27.5	—	495-2921-ND	3.86	29.22	248.06	B32674D4505K
	275	5.6	±10%	18.0	33.0	31.5	27.5	—	495-2922-ND	4.41	33.39	283.50	B32674D4565K
	275	6.0	±10%	21.0	31.0	31.5	27.5	—	495-2923-ND	4.73	35.78	303.75	B32674D4605K
	275	6.8	±10%	22.0	36.5	31.5	27.5	—	495-2924-ND	4.96	37.56	318.94	B32674D4685K
	275	7.5	±10%	22.0	36.5	31.5	27.5	—	495-2925-ND	5.51	41.74	354.38	B32674D4755K
	275	3.0	±10%	12.0	22.0	42.0	37.5	—	495-2957-ND	3.94	29.81	253.13	B32676E4305K
	275	3.3	±10%	14.0	25.0	42.0	37.5	—	495-2958-ND	4.10	31.01	263.25	B32676E4335K
	275	4.0	±10%	14.0	25.0	42.0	37.5	—	495-2959-ND	4.33	32.79	278.44	B32676E4405K
	275	4.7	±10%	16.0	28.5	42.0	37.5	—	495-2960-ND	4.73	35.78	303.75	B32676E4475K
	275	6.8	±10%	18.0	32.5	42.0	37.5	—	495-2962-ND	5.91	44.72	379.69	B32676E4685K
	275	8.2	±10%	20.0	39.5	42.0	37.5	—	495-2963-ND	6.62	50.09	425.25	B32676E4825K
	275	10	±10%	20.0	39.5	42.0	37.5	—	495-2964-ND	7.72	58.43	496.13	B32676E4106K
	275	15	±10%	28.0	42.5	42.0	37.5	—	495-2965-ND	9.84	74.53	632.81	B32676E4156K
	275	20	±10%	30.0	45.0	42.0	37.5	—	495-2966-ND	12.21	92.42	784.69	B32676E4206K
	—	22	±10%	22.0	36.5	31.5	27.5	—	495-3942-ND	12.60	94.50	708.75	B32774D4226K
630	350	1.0	±10%	11.0	19.0	31.5	27.5	—	495-2926-ND	1.65	12.52	106.31	B32674D6105K
	350	1.5	±10%	12.5	21.5	31.5	27.5	—	495-2927-ND	1.97	14.91	126.56	B32674D6155K
	350	2.2	±10%	15.0	24.5	31.5	27.5	—	495-2928-ND	2.76	20.87	177.19	B32674D6225K
	350	3.3	±10%	16.0	32.0	31.5	27.5	—	495-2929-ND	3.86	29.22	248.06	B32674D6335K
	350	4.7	±10%	22.0	36.5	31.5	27.5	—	495-2930-ND	4.41	33.39	283.50	B32674D6475K
	350	5.0	±10%	22.0	36.5	31.5	27.5	—	495-2931-ND	4.73	35.78	303.75	B32674D6505K
	350	2.0	±10%	12.0	22.0	42.0	37.5	—	495-2967-ND	3.54	26.83	227.81	B32676E6205K
	350	2.7	±10%	14.0	25.0	42.0	37.5	—	495-2968-ND	4.17	31.60	268.31	B32676E6275K
	350	3.3	±10%	16.0	28.5	42.0	37.5	—	495-2969-ND	4.73	35.78	303.75	B32676E6335K
	350	4.0	±10%	16.0	28.5	42.0	37.5	—	495-2970-ND	4.96	37.56	318.94	B32676E6405K
	350	4.7	±10%	18.0	32.5	42.0	37.5	—	495-2971-ND	5.12	38.76	329.06	B32676E6475K
	350	6.8	±10%	20.0	39.5	42.0	37.5	—	495-2972-ND	6.30	47.70	405.00	B32676E6685K
	350	7.5	±10%	20.0	39.5	42.0	37.5	—	495-2973-ND	6.85	51.87	440.44	B32676E6755K
	350	8.2	±10%	28.0	37.0	42.0	37.5	—	495-2974-ND	8.82	66.78	567.00	B32676E6825K
	350	12	±10%	28.0	42.5	42.0	37.5	—	495-2976-ND	9.92	75.13	637.88	B32676E6126K
750	375	.68	±10%	11.0	19.0	31.5	27.5	—	495-2932-ND	1.65	12.52	106.31	B32674D1684K
	375	1.0	±10%	12.5	21.5	31.5	27.5	—	495-2933-ND	1.97	14.91	126.56	B32674D1105K
	375	1.5	±10%	14.0	24.5	31.5	27.5	—	495-2934-ND	2.36	17.89	151.88	B32674D1155K
	375	2.0	±10%	14.0	25.0	42.0	37.5	—	495-2979-ND	4.33	32.79	278.44	B32676E1205K
	375	6.8	±10%	28.0	37.0	42.0	37.5	—	495-2983-ND	9.29	70.36	597.38	B32676E1685K
	375	9.0	±10%	28.0	42.5	42.0	37.5	—	495-2984-ND	9.84	74.53	632.81	B32676E1905K
	375	10	±10%	30.0	45.0	42.0	37.5	—	495-2985-ND	10.63	80.49	683.44	B32676E1106K
800	—	12	±10%	22.0	36.5	31.5	27.5	—	495-3938-ND	8.55	64.13	480.94	B32774D8126K
875	400	.47	±10%	11.0	19.0	31.5	27.5	—	495-2938-ND	1.58	11.93	101.25	B32674D8474K
	400	.68	±10%	11.0	21.0	31.5	27.5	—	495-2939-ND	1.73	13.12	111.38	B32674D8684K
	400	1.0	±10%	13.5	23.0	31.5	27.5	—	495-2940-ND	1.97	14.91	126.56	B32674D8105K
	400	1.5	±10%	18.0	27.5	31.5	27.5	—	495-2941-ND	2.76	20.87	177.19	B32674D8155K
	400	2.2	±10%	18.0	33.0	31.5	27.5	—	495-2942-ND	3.86	29.22	248.06	B32674D8225K
	400	1.0	±10%	12.0	22.0	42.0	37.5	—	495-2986-ND	3.54	26.83	227.81	B32676E8105K
	400	2.2	±10%	16.0	28.5	42.0	37.5	—	495-2988-ND	4.73	35.78	303.75	B32676E8225K
	400	4.7	±10%	28.0	37.0	42.0	37.5	—	495-2991-ND	8.66	65.59	556.88	B32676E8475K
	400	7.5	±10%	30.0	45.0	42.0	37.5	—	495-2993-ND	10.47	79.30	673.31	B32676E8755K
1100	—	7.0	±10%	22.0	36.5	31.5	27.5	—	495-3934-ND	7.20	54.00	405.00	B32774D0705K
1300	—	5.0	±10%	22.0	36.5	31.5	27.5	—	495-3930-ND	7.65	57.38	430.31	B32774D1505K
Fig. 2													
300	160	15	±10%	20.0	39.5	42.0	37.5	10.2	495-2994-ND	9.37	70.95	602.44	B32676G3156K
	160	20	±10%	28.0	37.0	42.0	37.5	10.2	495-2995-ND	11.81	89.44	759.38	B32676G3206K
	160	30	±10%	30.0	45.0	57.5	52.5	20.3	495-2999-ND	12.26	92.80	787.91	B32678G3306K
	160	35	±10%	30.0	45.0	57.5	52.5	20.3	495-3000-ND	13.10	99.20	842.24	B32678G3356K
	160	60	±10%	35.0	50.0	57.5	52.5	20.3	495-3003-ND	16.48	124.80	1059.59	B32678G3606K
450	275	8.2	±10%	20.0	39.5	42.0	37.5	10.2	495-3004-ND	8.27	62.61	531.56	B32676G4825K
	275	15	±10%	28.0	42.5	42.0	37.5	10.2	495-3006-ND	8.75	66.28	562.79	B32676G4156K
	275	20	±10%	30.0	45.0	42.0	37.5	20.3	495-3007-ND	10.57	80.00	679.23	B32676G4206K
	275	25	±10%	30.0	45.0	57.5	52.5	20.3	495-3009-ND	12.68	96.00	815.06	B32678G4256K
	275	35	±10%	35.0	50.0	57.5	52.5	20.3	495-3011-ND	15.21	115.20	978.08	B32678G4356K
	—	40	±10%	28.0	37.0	42.0	37.5	1.2	495-3956-ND	23.40	175.50	1316.25	B32776G4406K
	—	50	±10%	28.0	42.5	41.5	37.5	1.2	495-3943-ND	31.50	236.25	1771.88	B32776G4506K
	—	110	±10%	35.0	50.0	57.5	37.5	1.2	495-3944-ND	47.61	357.08	2678.06	B32778G4117K
630	350	6.8	±10%	20.0	39.5	42.0	37.5	10.2	495-3012-ND	8.66	65.59	556.88	B32676G6685K
	350	12	±10%	28.0	42.5	42.0	37.5	20.3	495-3016-ND	12.21	92.42	784.69	B32676G6126K
	350	15	±10%	30.0	45.0	57.5	52.5	20.3	495-3018-ND	10.57	80.00	679.23	B32678G6156K
	350	20	±10%	35.0	50.0	57.5	52.5	20.3	495-3019-ND	15.99	121.04	1027.69	B32678G6206K
	350	25	±10%	35.0	50.0	57.5	52.5	20.3	495-3020-ND	14.37	108.80	923.74	B32678G6256K
750	375	10	±10%	30.0	45.0	42.0	37.5	20.3	495-3025-ND	12.13	91.82	779.63	B32676G1106K
	375	15	±10%	30.0	45.0	57.5	52.5	20.3	495-3026-ND	11.83	89.60	760.73	B32678G1156K
	375	20	±10%	35.0	50.0	57.5	52.5	20.3	495-3027-ND	13.52	102.40	869.40	B32678G1206K
800	—	15	±10%	20.0	39.5	41.5	37.5	1.2	495-3939-ND	13.05	97.88	734.06	B32776G8156K
	—	30	±10%	30.0	45.0	42.0	37.5	1.2	495-3940-ND	24.30	182.25	1366.88	B32776G8306K
	—	60	±10%	35.0	50.0	57.5	37.5	1.2	495-3941-ND	28.29	212.18	1591.31	B32778G8606K
875	400	3.3	±10%	20.0	39.5	42.0	37.5	10.2	495-3028-ND	7.48	56.64	480.94	B32676G8335K
	400	4.0	±10%	20.0	39.5	42.0	37.5	10.2	495-3029-ND	8.27	62.61	531.56	B32676G8405K
	400	4.7	±10%	28.0	37.0	42.0	37.5	20.3	495-3030-ND	9.45	71.55	607.50	B32676G8475K
	400	6.8	±10%	28.0	42.5	42.0	37.5	20.3	495-3031-ND	11.03	83.48	708.75	B32676G8685K
	400	7.5	±10%	30.0	45.0	42.0	37.5	20.3	495-3032-ND	12.21	92.42	784.69	B32676G8755K
	400	10	±10%	30.0	45.0	57.5	52.5	20.3	495-3033-ND	10.57	80.00	679.23	B32678G8106K
	400	15	±10%	35.0	50.0	57.5	52.5	20.3	495-3034-ND	13.10	99.20	842.24	B32678G8156K
1100	—	20	±10%	30.0	45.0	42.0	37.5	1.2	495-3936-ND	22.95	172.13	1290.94	B32776G0206K
	—	40	±10%	35.0	50.0	57.5	37.5	1.2	495-3937-ND	28.29	212.18	1591.31	B32778G0406K
1300	—	8.0	±10%	20.0	39.5	41.5	37.5	1.2	495-3932-ND	12.15	91.13	683.44	B32776G1805K
	—	27	±10%	35.0	50.0	57.5	37.5	1.2	495-3933-ND	23.46	175.95	1319.63	B32778G1276K

High Voltage/High Temperature

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
Fig. 1												
1000	500	.0033	±5%	4.0	9.0	13.0	10.0	495-3194-ND	.31	2.30	17.21	B32671L0332J000
	500	.0039	±5%	4.0	9.0	13.0	10.0	495-3195-ND	.32	2.36	17.73	B32671L0392J000
	500	.0041	±5%	4.0	9.0	13.0	10.0	495-3196-ND	.32	2.36	17.73	B32671L0412J000
	500	.0047	±5%	4.0	9.0	13.0	10.0	495-3197-ND	.32	2.39	17.89	B32671L0472J000
	500	.0056	±5%	5.0	11.0	13.0	10.0	495-3198-ND	.33	2.48	18.56	B32671L0562J000
	500	.0062	±5%	5.0	11.0	13.0	10.0	495-3199-ND	.34	2.57	19.24	B32671L0622J000
	500	.0082	±5%	5.0	11.0	13.0	10.0	495-3201-ND	.40	3.02	22.61	B32671L0822J000
	500	.01	±5%	6.0	12.0	13.0	10.0	495-3202-ND	.41	3.11	23.29	B32671L0103J000
	500	.012	±5%	6.0	12.0	13.0	10.0	495-3203-ND	.42	3.17	23.81	B32671L0123J000

(Continued)

EPCOS

Metallized Polypropylene Film Capacitors

High Voltage/High Temperature *(Cont.)*

WV (DC)	WV (AC)	Cap. (µF)	Toler- ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
1600	600	.0012	±5%	4.0	9.0	13.0	10.0	495-3204-ND	.31	2.30	17.21	B32671L1122J000
	600	.0015	±5%	5.0	11.0	13.0	10.0	495-3205-ND	.32	2.36	17.73	B32671L1152J000
	600	.0022	±5%	5.0	11.0	13.0	10.0	495-3206-ND	.32	2.39	17.89	B32671L1222J000
	600	.0027	±5%	5.0	11.0	13.0	10.0	495-3207-ND	.32	2.39	17.89	B32671L1272J000
	600	.0033	±5%	6.0	12.0	13.0	10.0	495-3208-ND	.33	2.48	18.56	B32671L1332J000
	600	.0039	±5%	6.0	12.0	13.0	10.0	495-3209-ND	.34	2.57	19.24	B32671L1392J000
	600	.0041	±5%	6.0	12.0	13.0	10.0	495-3210-ND	.34	2.57	19.24	B32671L1412J000
	600	.0062	±5%	5.0	10.5	18.0	15.0	495-3211-ND	.34	2.57	19.24	B32672L1622J000
	600	.0068	±5%	5.0	10.5	18.0	15.0	495-3212-ND	.34	2.57	19.24	B32672L1682J000
	600	.0082	±5%	6.0	11.0	18.0	15.0	495-3213-ND	.41	3.04	22.79	B32672L1822J000
	600	.01	±5%	6.0	11.0	18.0	15.0	495-3214-ND	.48	3.58	26.84	B32672L1103J000
	600	.012	±5%	6.0	12.0	18.0	15.0	495-3215-ND	.55	4.10	30.71	B32672L1123J000
	600	.015	±5%	7.0	12.5	18.0	15.0	495-3216-ND	.60	4.52	33.93	B32672L1153J000
	600	.022	±5%	8.5	14.5	18.0	15.0	495-3217-ND	.75	5.60	42.03	B32672L1223J000
	600	.033	±5%	9.0	17.5	18.0	15.0	495-3218-ND	.85	6.39	47.93	B32672L1333J000
2000	700	.001	±5%	5.0	10.5	18.0	15.0	495-3219-ND	.34	2.57	19.24	B32672L8102J000
	700	.0012	±5%	5.0	10.5	18.0	15.0	495-3220-ND	.34	2.57	19.24	B32672L8122J000
	700	.0015	±5%	5.0	10.5	18.0	15.0	495-3221-ND	.34	2.57	19.24	B32672L8152J000
	700	.0022	±5%	5.0	10.5	18.0	15.0	495-3222-ND	.35	2.63	19.76	B32672L8222J000
	700	.0027	±5%	5.0	10.5	18.0	15.0	495-3223-ND	.35	2.63	19.76	B32672L8272J000
	700	.0033	±5%	5.0	10.5	18.0	15.0	495-3224-ND	.35	2.63	19.76	B32672L8332J000
	700	.0039	±5%	5.0	10.5	18.0	15.0	495-3225-ND	.35	2.63	19.76	B32672L8392J000
	700	.0047	±5%	5.0	10.5	18.0	15.0	495-3227-ND	.35	2.63	19.76	B32672L8472J000
	700	.0056	±5%	6.0	11.0	18.0	15.0	495-3228-ND	.38	2.88	21.60	B32672L8562J000
	700	.0062	±5%	6.0	11.0	18.0	15.0	495-3229-ND	.42	3.17	23.81	B32672L8622J000
	700	.0068	±5%	6.0	11.0	18.0	15.0	495-3230-ND	.47	3.51	26.33	B32672L8682J000
	700	.0082	±5%	6.0	12.0	18.0	15.0	495-3231-ND	.51	3.83	28.69	B32672L8822J000
	700	.01	±5%	7.0	12.5	18.0	15.0	495-3232-ND	.59	4.46	33.41	B32672L8103J000
	700	.012	±5%	8.5	14.5	18.0	15.0	495-3233-ND	.68	5.09	38.14	B32672L8123J000
	700	.015	±5%	8.5	14.5	18.0	15.0	495-3234-ND	.77	5.74	43.04	B32672L8153J000
	700	.022	±5%	9.0	17.5	18.0	15.0	495-3235-ND	.94	7.02	52.65	B32672L8223J000

MKP Series

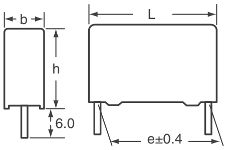

Construction: • Dielectric: polypropylene • Stacked and wound technology • Plastic case (UL94V-0) • Epoxy resin sealing
Features: • Very high pulse strength • Very good self-healing properties • Small dimensions • High contact reliability
Typical Applications: • Energy-saving lamps • TV S-correction • High pulse load applications • AC applications
Terminals: • Parallel wire leads, tinned
Technical Data: • Lower category temperature T_{min}: -55°C • Upper category temperature T_{max}: 100°
Service Life: 200,000 hours

WV (DC)	WV (AC)	Cap. (µF)	Toler- ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
160	90	0.10	±5%	5.0	10.5	10.0	7.5	495-1275-ND	.67	4.96	35.45	B32620A5104J
	90	0.10	±5%	5.0	11.0	13.0	10.0	495-1375-ND	.74	5.46	39.00	B32621A5104J
	90	0.15	±5%	6.0	12.0	10.3	7.5	495-1276-ND	.66	4.90	35.96	B32620A5154J
	90	0.22	±5%	6.0	12.0	13.0	10.0	495-1278-ND	.79	5.90	43.36	B32621A5224J
250	140	0.0022	±5%	4.0	7.0	13.0	10.0	495-1279-ND	.47	3.47	24.75	B32621A3222J
	140	0.0047	±5%	4.0	9.0	13.0	10.0	495-1281-ND	.49	3.62	25.88	B32621A3472J
	140	0.0068	±5%	4.0	9.0	13.0	10.0	495-1282-ND	.50	3.70	26.45	B32621A3682J
	140	0.01	±5%	4.0	9.0	13.0	10.0	495-1283-ND	.53	3.89	27.75	B32621A3103J
	140	0.022	±5%	4.0	8.5	10.0	7.5	495-1286-ND	.50	3.70	26.45	B32620A3223J
	140	0.022	±5%	4.0	9.0	13.0	10.0	495-1285-ND	.56	4.15	29.63	B32621A3223J
	140	0.047	±5%	5.0	10.5	10.0	7.5	495-1290-ND	.56	4.15	29.63	B32620A3473J
	140	0.047	±5%	4.0	9.0	13.0	10.0	495-1289-ND	.65	4.81	34.33	B32621A3473J
	140	0.068	±5%	5.0	11.0	13.0	10.0	495-1292-ND	.71	5.20	37.13	B32621A3683J
	140	0.10	±5%	6.0	12.0	10.3	7.5	495-1294-ND	.73	5.36	38.25	B32620A3104J
	160	0.22	±5%	6.0	11.0	18.0	15.0	495-1296-ND	.50	3.74	27.50	B32652A3224J
	160	0.33	±5%	7.0	12.5	18.0	15.0	495-1297-ND	.59	4.39	32.27	B32652A3334J
	160	0.47	±5%	8.5	14.5	18.0	15.0	495-1298-ND	.71	5.26	38.61	B32652A3474J
	160	0.68	±5%	9.0	17.5	18.0	15.0	495-1299-ND	.81	6.05	44.42	B32652A3684J
400	200	0.0068	±5%	4.0	8.5	10.0	7.5	495-1300-ND	.50	3.70	26.45	B32620A4682J
	200	0.01	±5%	4.0	8.5	10.0	7.5	495-1301-ND	.50	3.70	26.45	B32620A4103J
	200	0.022	±5%	5.0	10.5	10.0	7.5	495-1305-ND	.57	4.20	30.00	B32620A4223J
	200	0.022	±5%	5.0	11.0	13.0	10.0	495-1306-ND	.64	4.73	33.75	B32621A4223J
	200	0.033	±5%	6.0	12.0	10.3	7.5	495-1308-ND	.67	4.96	35.45	B32620A4333J
	200	0.033	±5%	5.0	11.0	13.0	10.0	495-1307-ND	.73	5.36	38.25	B32621A4333J
	200	0.047	±5%	6.0	12.0	13.0	10.0	495-1309-ND	.78	5.78	41.25	B32621A4473J
	200	0.10	±5%	5.0	10.5	18.0	15.0	495-1311-ND	.62	4.60	32.83	B32652A4104J
	200	0.15	±5%	6.0	11.0	18.0	15.0	495-1312-ND	.60	4.46	32.78	B32652A4154J
	200	0.22	±5%	7.0	12.5	18.0	15.0	495-1313-ND	.62	4.61	33.84	B32652A4224J
	200	0.33	±5%	8.5	14.5	18.0	15.0	495-1314-ND	.65	4.85	35.60	B32652A4334J
	200	0.47	±5%	9.0	17.5	18.0	15.0	495-1315-ND	.82	6.12	44.96	B32652A4474J
	200	0.68	±10%	10.5	16.5	26.5	22.5	495-4191-ND ***NEW!***	1.60	11.81	84.38	B32653A4684K
	200	2.2	±10%	14.0	24.5	31.5	27.5	495-4195-ND ***NEW!***	3.95	29.14	208.13	B32654A4225K
630	250	0.033	±5%	5.0	10.5	18.0	15.0	495-1330-ND	.61	4.46	31.88	B32652A6333J
	250	0.047	±5%	5.0	10.5	18.0	15.0	495-1331-ND	.63	4.67	33.38	B32652A6473J
	250	0.10	±5%	7.0	12.5	18.0	15.0	495-1333-ND	.64	4.75	34.90	B32652A6104J
	250	0.15	±5%	8.5	14.5	18.0	15.0	495-1334-ND	.78	5.83	42.84	B32652A6154J
	250	0.22	±5%	9.0	17.5	18.0	15.0	495-1335-ND	.82	6.12	44.96	B32652A6224J
	250	0.22	±10%	8.5	16.5	26.5	22.5	495-4192-ND ***NEW!***	1.29	9.53	68.08	B32653A6224K
	250	0.47	±10%	11.0	20.5	26.5	22.5	495-4193-ND ***NEW!***	1.80	13.23	94.50	B32653A6474K
	250	1.0	±10%	13.5	23.0	31.5	27.5	495-4196-ND ***NEW!***	2.94	21.66	154.70	B32654A6105K
	400	0.0015	±5%	4.0	8.5	10.0	7.5	495-1316-ND	.48	3.52	25.13	B32620A6152J
	400	0.0022	±5%	4.0	8.5	10.0	7.5	495-1318-ND	.48	3.52	25.13	B32620A6222J
	400	0.0022	±5%	4.0	7.0	13.0	10.0	495-1317-ND	.46	3.36	24.00	B32621A6222J
	400	0.0033	±5%	4.0	9.0	13.0	10.0	495-1320-ND	.46	3.41	24.38	B32621A6332J
	400	0.0047	±5%	4.0	8.5	10.0	7.5	495-1322-ND	.54	3.99	28.50	B32620A6472J
	400	0.0047	±5%	4.0	9.0	13.0	10.0	495-1321-ND	.48	3.57	25.50	B32621A6472J
	400	0.0068	±5%	5.0	10.5	10.0	7.5	495-1323-ND	.57	4.20	30.00	B32620A6682J
	400	0.0068	±5%	4.0	9.0	13.0	10.0	495-1324-ND	.53	3.94	28.13	B32621A6682J
	400	0.01	±5%	5.0	10.5	10.0	7.5	495-1325-ND	.63	4.65	33.20	B32620A6103J
	400	0.01	±5%	4.0	9.0	13.0	10.0	495-1326-ND	.59	4.33	30.95	B32621A6103J
	400	0.015	±5%	6.0	12.0	10.3	7.5	495-1327-ND	.77	5.65	40.33	B32620A6153J
	400	0.022	±5%	6.0	12.0	13.0	10.0	495-1329-ND	.67	4.97	36.50	B32621A6223J
1000	250	0.01	±5%	5.0	10.5	18.0	15.0	495-1349-ND	.56	4.10	29.25	B32652A0103J
	250	0.022	±5%	5.0	10.5	18.0	15.0	495-1352-ND	.61	4.46	31.88	B32652A0223J
	250	0.033	±5%	6.0	11.0	18.0	15.0	495-1353-ND	.66	4.88	34.88	B32652A0333J
	250	0.047	±5%	7.0	12.5	18.0	15.0	495-1354-ND	.67	4.97	36.50	B32652A0473J
	250	0.068	±5%	8.5	14.5	18.0	15.0	495-1355-ND	.70	5.23	38.42	B32652A0683J
	250	0.10	±5%	9.0	17.5	18.0	15.0	495-1356-ND	.81	6.00	44.06	B32652A0104J
	500	0.0015	±5%	4.0	8.5	10.0	7.5	495-1338-ND	.49	3.62	25.88	B32620A152J
	500	0.0022	±5%	4.0	8.5	10.0	7.5	495-1339-ND	.50	3.70	26.45	B32620A222J
	500	0.0022	±10%	4.0	8.5	10.0	7.5	495-2589-ND	.48	3.55	25.33	B32620A222K
	500	0.0022	±5%	4.0	7.0	13.0	10.0	495-1340-ND	.57	4.20	30.00	B32621A222J
	500	0.0033	±5%	5.0	10.5	10.0	7.5	495-1343-ND	.53	3.89	27.75	B32620A332J
	500	0.0033	±5%	4.0	9.0	13.0	10.0	495-1342-ND	.58	4.31	30.75	B32621A332J
	500	0.0047	±5%	5.0	10.5	10.0	7.5	495-1346-ND	.57	4.20	30.00	B32620A472J
	500	0.0047	±5%	4.0	9.0	13.0	10.0	495-1344-ND	.67	4.96	35.45	B32621A472J
	500	0.0068	±5%	6.0	12.0	10.3	7.5	495-1347-ND	.69	5.12	36.58	B32620A682J
	500	0.0068	±5%	5.0	11.0	13.0	10.0	495-1348-ND	.74	5.46	39.00	B32621A682J
	500	0.01	±5%	6.0	12.0	13.0	10.0	495-1350-ND	.81	5.93	42.38	B32621A103J
	600	0.00047	±5%	4.0	8.5	10.0	7.5	495-1336-ND	.65	4.39	30.94	B32620J471J
	600	0.00068	±5%	5.0	10.5	10.0	7.5	495-1337-ND	.53	3.94	28.13	B32620J681J
	600	0.0022	±5%	5.0	10.5	10.0	7.5	495-1341-ND	.56	4.15	29.63	B32620J222J
1250	500	0.01	±5%	6.0	11.0	18.0	15.0	495-1358-ND	.62	4.61	33.84	B32652A7103J
	500	0.022	±5%	8.5	14.5	18.0	15.0	495-1360-ND	.74	5.47	40.19	B32652A7223J
	500	0.033	±5%	9.0	17.5	18.0	15.0	495-1361-ND	.82	6.12	44.96	B32652A7333J
	500	0.10	±10%	11.0	20.5	26.5	22.5	495-4115-ND	1.74	12.96	95.18	B32653A7104K
1600	500	0.0033	±5%	5.0	10.5	18.0	15.0	495-1367-ND	.49	3.62	25.88	B32652A1332J
	500	0.0047	±5%	6.0	11.0	18.0	15.0	495-1369-ND	.53	3.89	27.75	B32652A1472J
	500	0.0068	±5%	7.0	12.5	18.0	15.0	495-1371-ND	.53	3.96	29.09	B32652A1682J
	500	0.01	±5%	8.5	14.5	18.0	15.0	495-1373-ND	.67	4.97	36.50	B32652A1103J
	500	0.01	±10%	6.0	15.0	26.5	22.5	495-4190-ND ***NEW!***	1.34	9.85	70.33	B32653A1103K
	500	0.015	±5%	9.0	17.5	18.0	15.0	495-1374-ND	.81	6.00	44.06	B32652A1153J
	500	0.10	±10%	14.0	24.5	31.5	27.5	495-4194-ND ***NEW!***	3.07	22.60	161.45	B32654A1104K
	700	0.0022	±5%	5.0	10.5	18.0	15.0	495-1364-ND	.59	4.39	32.27	B32652J1222J
	700	0.0033	±5%	6.0	11.0	18.0	15.0	495-1366-ND	.65	4.85	35.60	B32652J1332J
	700	0.0047	±5%	7.0	12.5	18.0	15.0	495-1368-ND	.70	5.23	38.42	B32652J1472J
	700	0.0068	±5%	8.5	14.5	18.0	15.0	495-1370-ND	.74	5.47	40.19	B32652J1682J
	700	0.01	±5%	9.0	17.5	18.0	15.0	495-1372-ND	.82	6.12	44.96	B32652J1103J
2000	700	0.001	±5%	5.0	10.5	18.0	15.0	495-1376-ND	.61	4.52	32.25	B32652A2102J
	700	0.0015	±5%	6.0	11.0	18.0	15.0	495-1377-ND	.63	4.67	33.38	B32652A2152J
	700	0.0022	±5%	7.0	12.5	18.0	15.0	495-1378-ND	.68	5.04	36.00	B32652A2222J
	700	0.0033	±5%	8.5	14.5	18.0	15.0	495-1379-ND	.72	5.28	37.70	B32652A2332J

MKP Series - Pulse Application with Epoxy Resin Coating

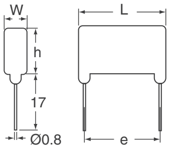

Construction:
- Dielectric: polypropylene • Wound capacitor technology • Epoxy resin coating (UL 94V-0)

Features:
- Very high pulse strength

Applications:
- TV (S-correction, flyback) • Electronic ballasts

Specifications:
- Operating Temperature Range: -55°C ~ 110°C • DC Test Voltage: 1.6 V_R for 2 seconds • Tolerance: ±5%

WV (DC)	WV (AC)	Cap. (µF)	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			W	h	L	e		1	10	100	
250	160	0.22	7.0	14.5	26.5	22.5	495-3599-ND	.52	3.82	27.25	B32613A3224J008
	160	0.47	7.0	15.0	31.5	27.5	495-3628-ND	1.76	13.20	99.00	B32614A3474J008
	160	0.68	11.5	17.5	18.0	15.0	495-3566-ND	.67	4.97	35.50	B32612A3684J008
	160	0.68	8.0	16.5	31.5	27.5	495-3629-ND	1.19	8.94	67.05	B32614A3684J008
	160	1.0	9.5	17.5	31.5	27.5	495-3626-ND	1.30	9.78	73.35	B32614A3105J008
400	200	0.068	6.5	12.0	18.0	15.0	495-3571-ND	.48	3.50	25.00	B32612A4683J008
	200	0.15	7.0	13.5	26.5	22.5	495-3601-ND	.58	4.27	30.50	B32613A4154J008
	200	0.33	9.5	16.0	18.0	15.0	495-3569-ND	.54	3.99	28.50	B32612A4334J008
	200	0.33	8.0	16.0	26.5	22.5	495-3603-ND	1.14	8.40	60.00	B32613A4334J008

(Continued)

EPCOS

Metallized Polypropylene Film Capacitors

MKP Series - Pulse Application with Epoxy Resin Coating *(Cont.)*

WV (DC)	WV (AC)	Cap. (µF)	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			W	h	L	e		1	10	100	
630	250	0.47	11.0	20.0	26.5	22.5	495-3609-ND	1.32	9.90	74.25	B32613A6474J008
	250	0.47	10.5	18.5	31.5	27.5	495-3633-ND	1.57	11.79	88.43	B32614A6474J008
1000	250	0.022	9.0	15.5	18.0	15.0	495-3552-ND	.47	3.47	24.75	B32612A0223J008
	250	0.047	10.0	15.5	26.5	22.5	495-3588-ND	.66	4.83	34.50	B32613A0473J008
	250	0.068	11.0	17.5	26.5	22.5	495-3589-ND	.73	5.36	38.25	B32613A0683J008
1250	500	0.033	11.0	17.5	18.0	15.0	495-3579-ND	.95	7.00	50.00	B32612A7333J008
1600	500	0.0047	6.5	12.0	18.0	15.0	495-3558-ND	.41	3.01	21.50	B32612A1472J008
	500	0.0068	8.0	13.0	18.0	15.0	495-3559-ND	.42	3.08	22.00	B32612A1682J008
	500	0.01	7.0	13.5	26.5	22.5	495-3590-ND	.67	4.97	35.50	B32613A1103J008
	500	0.015	10.0	17.5	18.0	15.0	495-3557-ND	.66	4.87	34.75	B32612A1153J008
1600	500	0.022	9.0	14.5	31.5	27.5	495-3617-ND	.87	6.44	46.00	B32614A1223J008
	500	0.068	13.0	21.5	31.5	27.5	495-3620-ND	1.68	12.63	94.73	B32614A1683J008
	700	0.0033	6.5	11.5	18.0	15.0	495-3582-ND	.76	5.60	40.00	B32612J1332J008
	700	0.0047	7.5	12.5	18.0	15.0	495-3583-ND	.59	4.38	31.25	B32612J1472J008
	700	0.0068	8.5	14.5	18.0	15.0	495-3584-ND	.64	4.69	33.50	B32612J1682J008
2000	700	0.001	7.0	10.5	18.0	15.0	495-3560-ND	.46	3.40	24.25	B32612A2102J008
	700	0.0033	8.5	15.0	18.0	15.0	495-3563-ND	.53	3.92	28.00	B32612A2332J008
	700	0.0047	9.5	18.0	18.0	15.0	495-3564-ND	.95	7.00	50.00	B32612A2472J008
	700	0.0047	7.5	14.0	26.5	22.5	495-3597-ND	.66	4.87	34.75	B32613A2472J008
	700	0.0068	8.5	16.0	26.5	22.5	495-3598-ND	.71	5.22	37.25	B32613A2682J008
	700	0.01	9.0	15.5	31.5	27.5	495-3621-ND	.95	7.14	53.55	B32614A2103J008
	700	0.015	12.0	20.5	26.5	22.5	495-3595-ND	1.14	8.55	64.13	B32613A2153J008
	700	0.015	11.0	17.5	31.5	27.5	495-3622-ND	.99	7.44	55.80	B32614A2153J008
	700	0.033	14.5	23.0	31.5	27.5	495-3624-ND	1.13	8.49	63.68	B32614A2333J008
	1000	0.0033	8.0	14.5	26.5	22.5	495-3611-ND	.74	5.46	39.00	B32613A8332J008
	1000	0.0068	10.0	18.5	26.5	22.5	495-3613-ND	.87	6.51	48.83	B32613A8682J008
	1000	0.01	11.5	21.5	26.5	22.5	495-3610-ND	.96	7.23	54.23	B32613A8103J008

EMI Suppression Capacitors — Y2, Y1, X2 and X1 Series

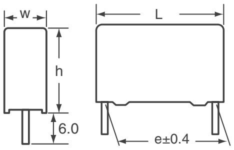

Y2, Y1 and X2 Series Specifications: ***Construction:*** • Dielectric: Polypropylene (MKP) • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0) ***Features:*** • Very small dimensions • Self-healing properties • High Voltage Capability ***Terminals:*** • Parallel wire leads (lead-free tinned) **X1 Series Specifications:** ***Construction:*** • Dielectric: Polypropylene (MKP) • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0) ***Features:*** • Very small dimenions • Good self-healing properties • High voltage capabilty ***Terminals:*** • Parallel wire leads (lead-free tinned) ***Y2* Series Technical Data:** • Maximum Operating Temperature: 110°C • Maximum Continuous AC Voltage: 480V, (50/60Hz) • Maximum Continuous DC Voltage: 1500V ***Y1* Series Technical Data:** • Maximum Operating Temperature: 100°C • Maximum Continuous AC Voltage: 750V, (50/60Hz) • Maximum Continuous DC Voltage: 3000V ***X2* Series Technical Data:** • Maximum Operating Temperature: 125°C (for C_R≥1µF with A/V/T version); 110°C (for C_R≥1µF or C/D version) • Maximum Continuous AC Voltage: 310V, (50/60Hz) ***X1* Series Technical Data:** • Maximum Operating Temperature: 110°C • Rated AC Voltage: 330V, (50/60Hz) • Maximum Continuous DC Voltage: 760V

WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			w	h	L	e		1	10	100	
Y2 Series											
300	.001	±20%	4.0	9.0	13.0	10.0	495-4086-ND	.32	2.39	18.00	B32021A3102M
	.0015	±20%	4.0	9.0	13.0	10.0	495-4078-ND	.53	3.60	25.38	B32021A3152M
	.0022	±20%	4.0	9.0	13.0	10.0	495-4079-ND	.56	3.78	26.62	B32021A3222M
	.0033	±10%	4.0	9.0	13.0	10.0	495-4080-ND	.64	4.33	30.53	B32021A3332K
	.0033	±20%	4.0	9.0	13.0	10.0	495-4081-ND	.61	4.13	29.10	B32021A3332M
	.0047	±20%	5.0	11.0	13.0	10.0	495-4082-ND	.63	4.30	30.33	B32021A3472M
	.0056	±20%	5.0	11.0	13.0	10.0	495-4083-ND	.65	4.39	30.94	B32021A3562M
	.0068	±10%	5.0	11.0	13.0	10.0	495-4084-ND	.72	4.86	34.24	B32021A3682K
	.0082	±20%	6.0	12.0	13.0	10.0	495-4085-ND	.74	5.00	35.28	B32021A3822M
	.01	±20%	6.0	12.0	13.0	10.0	495-4077-ND	.76	5.18	36.52	B32021A3103M
	.01	±20%	5.0	10.5	18.0	15.0	495-3792-ND	.74	5.44	38.83	B32022A3103M
	.015	±20%	6.0	11.0	18.0	15.0	495-3793-ND	.80	5.91	42.20	B32022A3153M
	.022	±20%	6.0	12.0	18.0	15.0	495-3794-ND	.89	6.54	46.70	B32022A3223M
	.033	±20%	8.0	14.0	18.0	15.0	495-3795-ND	1.07	7.88	56.25	B32022A3333M
	.047	±20%	8.5	14.5	18.0	15.0	495-3796-ND	1.21	8.90	63.58	B32022A3473M
	.068	±20%	9.0	17.5	18.0	15.0	495-3797-ND	1.34	9.85	70.33	B32022A3683M
	.082	±20%	11.0	18.5	18.0	15.0	495-3798-ND	1.67	12.33	88.08	B32022A3823M
	.047	±20%	6.0	15.0	26.5	22.5	495-3799-ND	1.28	9.45	67.50	B32023A3473M
	.068	±20%	7.0	16.0	26.5	22.5	495-3800-ND	1.54	11.34	81.00	B32023A3683M
	.10	±20%	8.5	16.5	26.5	22.5	495-3801-ND	1.67	12.29	87.75	B32023A3104M
	.15	±20%	10.5	18.5	26.5	22.5	495-3802-ND	1.95	14.33	102.38	B32023A3154M
	.22	±20%	12.0	22.0	26.5	22.5	495-3803-ND	2.42	17.80	127.13	B32023A3224M
	.33	±20%	14.5	29.5	26.5	22.5	495-3804-ND	3.63	26.78	191.25	B32023A3334M
	.39	±20%	14.5	29.5	26.5	22.5	495-3805-ND	4.09	30.14	215.25	B32023A3394M
	.15	±20%	11.0	19.0	31.5	27.5	495-3806-ND	2.40	17.72	126.58	B32024A3154M
	.22	±20%	11.0	19.0	31.5	27.5	495-3807-ND	2.86	21.11	150.75	B32024A3224M
	.33	±20%	13.5	23.0	31.5	27.5	495-3808-ND	3.66	26.93	192.38	B32024A3334M
	.47	±20%	15.0	24.5	31.5	27.5	495-3809-ND	4.49	33.08	236.25	B32024A3474M
	.56	±20%	16.0	32.0	31.5	27.5	495-3810-ND	3.33	24.50	175.00	B32024A3564M
	.68	±20%	19.0	30.0	31.5	27.5	495-3811-ND	6.22	45.83	327.38	B32024A3684M
	.82	±20%	22.0	36.5	31.5	27.5	495-3812-ND	7.22	53.24	380.25	B32024A3824M
	1.0	±20%	22.0	36.5	31.5	27.5	495-3813-ND	8.17	60.17	429.75	B32024A3105M
	.33	±20%	12.0	22.0	41.5	37.5	495-3814-ND	4.50	33.16	236.83	B32026A3334M
	.47	±20%	14.0	25.0	41.5	37.5	495-3815-ND	5.58	41.11	293.63	B32026A3474M
	.56	±20%	14.0	25.0	41.5	37.5	495-3816-ND	3.49	25.73	183.75	B32026A3564M
	.68	±20%	16.0	28.5	41.5	37.5	495-3817-ND	6.97	51.35	366.75	B32026A3684M
	.82	±20%	16.0	28.5	41.5	37.5	495-3818-ND	4.75	35.00	250.00	B32026A3824M
	1.0	±20%	18.0	32.5	41.5	37.5	495-3819-ND	10.99	80.96	578.25	B32026A3105M
Y1 Series											
250	.0010	±20%	5.0	10.5	18.0	15.0	495-1648-ND	.58	4.25	30.38	B81123C1102M
	.0033	±20%	8.5	14.5	18.0	15.0	495-1651-ND	.80	5.91	42.20	B81123C1332M
	.0047	±20%	9.0	17.5	18.0	15.0	495-1652-ND	.98	7.19	51.38	B81123C1472M
	.0068	±20%	8.5	16.5	26.5	22.5	495-1654-ND	1.27	9.35	66.75	B81123C1682M
	.01	±20%	10.5	16.5	26.5	22.5	495-1655-ND	2.08	15.36	109.70	B81123C1103M
X2 Series											
305	.01	±20%	4.0	9.0	13.0	10.0	495-2316-ND	.36	2.63	18.75	B32921C3103M
	.022	±20%	4.0	9.0	13.0	10.0	495-2317-ND	.36	2.63	18.75	B32921C3223M
	.033	±20%	4.0	9.0	13.0	10.0	495-4121-ND ***NEW!***	.36	2.63	18.75	B32921C3333M
	.068	±20%	6.0	12.0	13.0	10.0	495-4122-ND ***NEW!***	.36	2.63	18.75	B32921C3683M
	.10	±20%	6.0	12.0	13.0	10.0	495-2318-ND	.40	2.92	20.83	B32921C3104M
	.10	±20%	6.0	12.0	13.0	10.0	495-4197-2-ND† ***NEW!***	149.60/1,100			B32921C3104M189
	.033	±20%	5.0	10.5	18.0	15.0	495-4201-ND ***NEW!***	.36	2.63	18.75	B32922C3333M
	.10	±20%	5.0	10.5	18.0	15.0	495-2319-ND	.36	2.63	18.75	B32922C3104M
	.10	±20%	5.0	10.5	18.0	15.0	495-4198-2-ND† ***NEW!***	184.60/1,300			B32922C3104M189
	.10	±20%	5.0	10.5	18.0	15.0	495-4199-3-ND‡ ***NEW!***	241.40/1,700			B32922C3104M289
	.22	±20%	7.0	12.5	18.0	15.0	495-2320-ND	.53	3.89	27.75	B32922C3224M
	.22	±20%	7.0	12.5	18.0	15.0	495-4200-2-ND† ***NEW!***	180.00/900			B32922C3224M189
305	.33	±20%	8.0	14.0	18.0	15.0	495-2321-ND	.63	4.65	33.20	B32922C3334M
	.33	±20%	8.0	14.0	18.0	15.0	495-4202-3-ND‡ ***NEW!***	171.55/730			B32922C3334M289
	.47	±20%	9.0	17.5	18.0	15.0	495-2322-ND	.84	6.22	44.45	B32922C3474M
	.68	±20%	11.0	18.5	18.0	15.0	495-2323-ND	1.14	8.40	60.00	B32922C3684M
	.15	±20%	6.0	12.0	18.0	22.5	495-4203-ND ***NEW!***	.96	7.09	50.63	B32923C3154M
	.22	±20%	6.0	15.0	26.5	22.5	495-4204-ND ***NEW!***	1.02	7.48	53.45	B32923C3224M
	.33	±20%	6.0	15.0	26.5	22.5	495-4205-ND ***NEW!***	.97	7.14	51.00	B32923C3334M
	.47	±20%	8.5	16.5	26.5	22.5	495-4206-ND ***NEW!***	1.17	8.61	61.50	B32923C3474K
	.47	±20%	8.5	16.5	26.5	22.5	495-4207-ND ***NEW!***	1.12	8.24	58.88	B32923C3474M
	.68	±20%	10.5	16.5	26.5	22.5	495-4208-ND ***NEW!***	1.27	9.37	66.95	B32923C3684M
	1.0	±20%	11.0	20.5	26.5	22.5	495-2324-ND	1.29	9.58	70.34	B32923C3105M
	1.5	±20%	12.0	22.0	26.5	22.5	495-1884-ND	1.63	12.20	91.46	B32923C3155M
	2.2	±20%	12.0	22.0	26.5	22.5	495-3820-ND	2.84	20.95	149.63	B32923E3225M
	2.2	±20%	14.5	29.5	26.5	22.5	495-1885-ND	2.09	15.86	119.70	B32923C3225M
	3.3	±10%	14.5	29.5	26.5	22.5	495-3821-ND	4.04	29.77	212.63	B32923E3335K
	.68	±10%	11.0	19.0	31.5	27.5	495-4212-ND ***NEW!***	1.67	12.29	87.75	B32924C3684K
	.68	±10%	11.0	19.0	31.5	27.5	495-4213-ND ***NEW!***	1.59	11.71	83.63	B32924C3684M
	1.0	±10%	11.0	19.0	31.5	27.5	495-4209-ND ***NEW!***	1.74	12.81	91.50	B32924C3105K
	1.0	±20%	11.0	19.0	31.5	27.5	495-4210-ND ***NEW!***	1.66	12.21	87.20	B32924C3105M
	1.5	±10%	12.5	21.5	31.5	27.5	495-1886-ND	1.70	12.78	95.85	B32924C3155K
	1.5	±20%	12.5	21.5	31.5	27.5	495-4211-ND ***NEW!***	1.93	14.23	101.63	B32924C3155M
	2.2	±20%	11.0	21.0	31.5	27.5	495-3822-ND	2.64	19.45	138.95	B32924E3225M
	2.2	±10%	12.5	21.5	31.5	27.5	495-3823-ND	2.77	20.42	145.88	B32924F3225K
	2.2	±20%	14.0	24.5	31.5	27.5	495-1887-ND	1.95	14.73	111.16	B32924C3225M
	3.3	±20%	14.0	24.5	31.5	27.5	495-3824-ND	3.66	26.93	192.38	B32924E3335M
	3.3	±10%	15.0	24.0	31.5	27.5	495-3825-ND	3.73	27.49	196.33	B32924F3335K
	3.3	±20%	18.0	27.5	31.5	27.5	495-1888-ND	2.69	20.39	153.90	B32924C3335M
	4.7	±10%	16.0	32.0	31.5	27.5	495-3827-ND	5.33	39.27	280.50	B32924F3475K
	4.7	±20%	18.0	27.5	31.5	27.5	495-3826-ND	5.08	37.41	267.20	B32924E3475M
	4.7	±20%	18.0	33.0	31.5	27.5	495-1889-ND	3.74	28.32	213.76	B32924C3475M
	5.6	±10%	18.0	33.0	31.5	27.5	495-3829-ND	6.40	47.15	336.75	B32924F3565K
	5.6	±20%	22.0	36.5	31.5	27.5	495-1890-ND	4.49	33.99	256.50	B32924C3565M
	6.8	±20%	21.0	31.0	31.5	27.5	495-3830-ND	10.15	74.81	534.38	B32924E3685M
	6.8	±10%	22.0	36.5	31.5	27.5	495-3831-ND	10.66	78.54	561.00	B32924F3685K
	8.2	±20%	22.0	36.5	31.5	27.5	495-3832-ND	11.22	82.69	590.63	B32924E3825M
	2.2	±20%	14.0	25.0	41.5	37.5	495-1892-ND	3.14	23.79	179.56	B32926C3225M
	4.7	±20%	18.0	32.5	41.5	37.5	495-1894-ND	4.86	36.81	277.80	B32926C3475M
	5.6	±20%	18.0	32.5	41.5	37.5	495-1895-ND	5.99	45.32	342.00	B32926C3565M
	6.8	±10%	18.0	32.5	42.0	37.5	495-3836-ND	10.12	74.60	532.88	B32926E3685K
	6.8	±20%	20.0	39.5	41.5	37.5	495-1896-ND	7.11	53.82	406.20	B32926C3685M
	10	±10%	20.0	39.5	42.0	37.5	495-3837-ND	13.86	102.11	729.38	B32926E3106K
	10	±20%	28.0	42.5	41.5	37.5	495-1891-ND	9.73	73.64	555.76	B32926C3106M
	20	±20%	28.0	42.5	42.0	37.5	495-3839-ND	29.93	220.50	1575.00	B32926E3206M
	20	±10%	30.0	45.0	42.0	37.5	495-3840-ND	31.42	231.53	1653.75	B32926F3206K
	25	±10%	30.0	45.0	57.5	52.5	495-3841-ND	44.89	330.75	2362.50	B32928E3256K
	30	±10%	30.0	45.0	57.5	52.5	495-3842-ND	48.81	359.68	2569.13	B32928E3306K
	40	±10%	35.0	50.0	57.5	52.5	495-3843-ND	44.74	329.65	2354.63	B32928E3406K
X1 Series											
330	.010	±10%	4.0	9.0	13.0	10.0	495-3957-ND	.59	4.39	32.92	B32911A3103K
	.010	±20%	4.0	9.0	13.0	10.0	495-3236-ND	.56	4.19	31.39	B32911A3103M
	.022	±20%	5.0	11.0	13.0	10.0	495-3237-ND	.56	4.19	31.39	B32911B3223M
	.033	±20%	6.0	12.0	13.0	10.0	495-3238-ND	.56	4.19	31.39	B32911A3333M
	.022	±10%	5.0	10.5	18.0	15.0	495-3969-ND	.66	4.95	37.13	B32912A3223K

‡ Tape and Box † Tape and Reel

(Continued)

EMI Suppression Capacitors
Y2, Y1, X2 and X1 Series *(Cont.)*

WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) w	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
330	.022	±20%	5.0	10.5	18.0	15.0	495-3239-ND	.63	4.73	35.44	B32912A3223M
	.033	±10%	5.0	10.5	18.0	15.0	495-3971-ND	.66	4.95	37.13	B32912A3333K
	.033	±20%	5.0	10.5	18.0	15.0	495-3240-ND	.63	4.73	35.44	B32912A3333M
	.047	±10%	5.0	10.5	18.0	15.0	495-3972-ND	.66	4.95	37.13	B32912A3473K
	.047	±20%	5.0	10.5	18.0	15.0	495-3241-ND	.63	4.73	35.44	B32912A3473M
	.068	±10%	6.0	11.0	18.0	15.0	495-3973-ND	.66	4.95	37.13	B32912A3683K
	.10	±10%	7.0	12.5	18.0	15.0	495-3967-ND	.66	4.95	37.13	B32912A3104K
	.10	±20%	7.0	12.5	18.0	15.0	495-3243-ND	.63	4.73	35.44	B32912A3104M
	.15	±20%	7.0	12.5	18.0	15.0	495-3244-ND	.85	6.35	47.59	B32912B3154M
	.15	±10%	8.5	14.5	18.0	15.0	495-3968-ND	.89	6.66	49.95	B32912A3154K
	.15	±20%	8.5	14.5	18.0	15.0	495-3245-ND	.85	6.35	47.59	B32912A3154M
	.22	±20%	8.5	14.5	18.0	15.0	495-3246-ND	.95	7.16	53.66	B32912B3224M
	.22	±10%	9.0	17.5	18.0	15.0	495-3970-ND	1.00	7.52	56.36	B32912A3224K
	.22	±20%	9.0	17.5	18.0	15.0	495-3247-ND	.95	7.16	53.66	B32912A3224M
	.33	±20%	9.0	17.5	18.0	15.0	495-3248-ND	1.08	8.10	60.75	B32912B3334M
	.15	±10%	6.0	15.0	26.5	22.5	495-3982-ND	1.36	10.19	76.46	B32913A3154K
	.22	±10%	7.0	16.0	26.5	22.5	495-3928-ND	1.51	11.34	85.05	B32913A3224K
	.22	±20%	7.0	16.0	26.5	22.5	495-3250-ND	1.44	10.80	81.00	B32913A3224M
	.33	±20%	8.5	16.5	26.5	22.5	495-3251-ND	1.70	12.76	95.69	B32913A3334M
	.47	±10%	10.5	18.5	26.5	22.5	495-3983-ND	2.15	16.11	120.83	B32913A3474K

WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) w	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
330	.47	±20%	10.5	16.5	26.5	22.5	495-3252-ND	2.04	15.32	114.93	B32913A3474M
	.47	±10%	11.0	21.0	31.5	27.5	495-3995-ND	2.31	17.35	130.12	B32914A3474K
	.47	±20%	11.0	21.0	31.5	27.5	495-3253-ND	2.21	16.54	124.04	B32914A3474M
	.68	±20%	11.0	21.0	31.5	27.5	495-3254-ND	2.36	17.69	132.64	B32914B3684M
	1.0	±10%	13.5	23.0	31.5	27.5	495-3993-ND	2.66	19.91	149.36	B32914A3105K
	1.0	±20%	13.5	23.0	31.5	27.5	495-3255-ND	2.53	18.97	142.27	B32914A3105M
	1.5	±10%	18.0	27.5	31.5	27.5	495-3994-ND	3.37	25.25	189.34	B32914A3155K
	2.2	±20%	19.0	30.0	31.5	27.5	495-3257-ND	4.38	32.87	246.56	B32914A3225M
	3.3	±20%	18.0	32.5	41.5	37.5	495-3258-ND	9.45	70.88	531.56	B32916A3335M
	6.8	±10%	28.0	42.5	41.5	37.5	495-4003-ND	18.43	138.20	1036.46	B32916A3685K
	6.8	±20%	28.0	42.5	41.5	37.5	495-3260-ND	17.55	131.63	987.19	B32916A3685M
440	.010	±20%	5.0	10.5	18.0	15.0	495-1656-ND	1.68	12.37	88.33	B81141C1103M
	.022	±20%	7.0	12.5	18.0	15.0	495-1657-ND	1.84	13.55	96.75	B81141C1223M
	.047	±20%	9.0	17.5	18.0	15.0	495-1659-ND	2.24	16.49	117.75	B81141C1473M
	.068	±20%	8.5	16.5	26.5	22.5	495-1660-ND	2.57	18.90	135.00	B81141C1683M
	.10	±20%	10.5	16.5	26.5	22.5	495-1661-ND	3.15	23.23	165.95	B81141C1104M
	.15	±20%	11.0	20.5	26.5	22.5	495-1662-ND	3.45	25.44	181.70	B81141C1154M
	.22	±20%	12.5	21.5	31.5	27.5	495-1663-ND	4.95	36.49	260.63	B81141C1224M
	.33	±20%	14.0	24.5	31.5	27.5	495-1664-ND	6.32	46.57	332.63	B81141C1334M
	.47	±20%	18.0	27.5	31.5	27.5	495-1665-ND	6.48	49.07	370.36	B81141C1474M

‡ Tape and Box † Tape and Reel

Metallized Polyester Film Capacitors
MKT Series

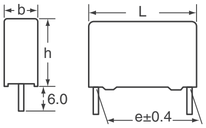

Construction: • Dielectric: polyethylene terephthalate (polyester) • Stacked and wound capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing
Features: • High pulse strength • High contact reliability
Terminals: • Parallel wire leads, tinned
Technical Data: • Lower category temperature Tmin: -55°C • Upper category temperature Tmax: 100°C (125°C for 1000h and VC= 0.5VR) • Service life: 200,000 hours

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
63	40	0.10	±5%	2.5	7.0	10.0	7.5	495-1104-ND	.37	2.52	17.74	B32520C104J
	40	0.22	±5%	2.5	7.0	10.0	7.5	495-1107-ND	.47	3.16	22.28	B32520C224J
	40	0.47	±5%	3.0	8.0	10.0	7.5	495-1112-ND	.51	3.78	27.00	B32520C474J
	40	0.68	±5%	4.0	8.5	10.0	7.5	495-1115-ND	.74	5.44	38.83	B32520C684J
	40	1.0	±5%	5.0	10.5	10.0	7.5	495-1121-ND	.79	5.90	43.36	B32520C105J
	40	1.5	±5%	5.0	10.5	10.0	7.5	495-1124-ND	1.15	8.59	63.10	B32520C155J
	40	2.2	±5%	6.0	12.0	10.3	7.5	495-1128-ND	1.59	11.93	89.44	B32520C225J
	40	0.47	±5%	4.0	7.0	13.0	10.0	495-1111-ND	.51	3.78	27.00	B32521C474J
	40	1.0	±5%	4.0	9.0	13.0	10.0	495-1118-ND	.79	5.90	43.36	B32521C105J
	40	2.2	±5%	5.0	11.0	13.0	10.0	495-1125-ND	1.39	10.42	78.14	B32521C225J
	40	3.3	±5%	6.0	12.0	13.0	10.0	495-1129-ND	1.79	13.41	100.58	B32521C335J
	40	1.0	±5%	5.0	10.5	18.0	15.0	495-1120-ND	.83	6.19	45.47	B32522C105J
	40	2.2	±5%	5.0	10.5	18.0	15.0	495-1126-ND	1.51	11.34	85.05	B32522C225J
	40	3.3	±5%	6.0	11.0	18.0	15.0	495-1130-ND	1.94	14.51	108.86	B32522C335J
	40	4.7	±5%	7.0	12.5	18.0	15.0	495-1131-ND	2.13	16.16	121.96	B32522C475J
	40	6.8	±10%	8.5	14.5	18.0	15.0	495-4091-ND	3.37	24.81	177.20	B32522C685K
	40	10	±10%	9.0	17.5	18.0	15.0	495-4092-ND	4.42	32.60	232.88	B32522C106K
	40	3.3	±10%	6.0	15.0	26.5	22.5	495-4093-ND	1.48	10.94	78.13	B32523R0335K
	40	4.7	±10%	6.0	15.0	26.5	22.5	495-4094-ND	1.85	13.67	97.63	B32523R0475K
	40	6.8	±10%	11.0	21.0	31.5	27.5	495-4100-ND	2.66	19.60	140.00	B32524Q0685K
	40	100	±10%	22.0	36.5	31.5	27.5	495-4101-ND	17.94	132.16	944.00	B32524R0107K
	40	100	±10%	18.0	32.5	41.5	37.5	495-4108-ND	19.17	141.28	1009.13	B32526R0107K
	40	150	±10%	20.0	39.5	41.5	37.5	495-4109-ND	27.83	205.08	1464.88	B32526R0157K
	40	220	-15/+5%	28.0	42.5	41.5	37.5	495-4110-ND	37.12	273.53	1953.81	B32526R0227A
	40	0.001	±5%	2.5	6.5	7.2	5.0	495-1091-ND	.18	1.42	9.55	B32529C102J
	40	0.001	±10%	2.5	6.5	7.2	5.0	495-2456-1-ND◊	.12	1.03	8.79	B32529C102K289
	40	0.001	±10%	2.5	6.5	7.2	5.0	495-2456-3-ND‡	153.60/3,200			B32529C102K289
	40	0.0015	±5%	2.5	6.5	7.2	5.0	495-1092-ND	.18	1.42	9.55	B32529C152J
	40	0.0022	±5%	2.5	6.5	7.2	5.0	495-1093-ND	.18	1.42	9.55	B32529C222J
	40	0.0033	±5%	2.5	6.5	7.2	5.0	495-1094-ND	.18	1.42	9.55	B32529C332J
	40	0.0047	±5%	2.5	6.5	7.2	5.0	495-1095-ND	.18	1.42	9.55	B32529C472J
	40	0.0068	±5%	2.5	6.5	7.2	5.0	495-1096-ND	.18	1.42	9.55	B32529C682J
	40	0.01	±5%	2.5	6.5	7.2	5.0	495-1097-ND	.18	1.42	9.55	B32529C103J
	40	0.01	±5%	2.5	6.5	7.2	5.0	495-2458-2-ND†	140.00/2,800			B32529C103J189
	40	0.01	±10%	2.5	6.5	7.2	5.0	495-2460-ND	.14	1.03	7.33	B32529C103K
	40	0.015	±5%	2.5	6.5	7.2	5.0	495-1098-ND	.18	1.42	9.55	B32529C153J
	40	0.022	±5%	2.5	6.5	7.2	5.0	495-1099-ND	.18	1.42	9.55	B32529C223J
	40	0.033	±5%	2.5	6.5	7.2	5.0	495-1100-ND	.18	1.42	9.55	B32529C333J
	40	0.047	±5%	2.5	6.5	7.2	5.0	495-1101-ND	.18	1.42	9.55	B32529C473J
	40	0.047	±10%	2.5	6.5	7.2	5.0	495-2558-3-ND‡	153.60/3,200			B32529C473K289
	40	0.047	±10%	2.5	6.5	7.2	5.0	495-2558-ND	.14	1.03	7.33	B32529C473K
	40	0.068	±5%	2.5	6.5	7.2	5.0	495-1102-ND	.18	1.42	9.55	B32529C683J
	40	0.10	±5%	2.5	6.5	7.2	5.0	495-1103-ND	.18	1.42	9.55	B32529C104J
	40	0.10	±5%	2.5	6.5	7.2	5.0	495-2463-2-ND†	140.00/2,800			B32529C104J189
	40	0.10	±5%	2.5	6.5	7.2	5.0	495-2463-3-ND‡	160.00/3,200			B32529C104J289
	40	0.10	±10%	2.5	6.5	7.2	5.0	495-2465-2-ND†	134.40/2,800			B32529C104K189
	40	0.10	±10%	2.5	6.5	7.2	5.0	495-2465-3-ND‡	153.60/3,200			B32529C104K289
	40	0.10	±10%	2.5	6.5	7.2	5.0	495-2465-ND	.14	1.03	7.33	B32529C104K
	40	0.15	±5%	2.5	6.5	7.2	5.0	495-1105-ND	.21	1.59	10.70	B32529C154J
	40	0.15	±5%	2.5	6.5	7.2	5.0	495-2509-3-ND‡	179.20/3,200			B32529C154J289
	40	0.22	±5%	2.5	6.5	7.2	5.0	495-1106-ND	.24	1.86	12.56	B32529C224J
	40	0.22	±5%	2.5	6.5	7.2	5.0	495-2522-2-ND†	184.80/2,800			B32529C224J189
	40	0.22	±10%	2.5	6.5	7.2	5.0	495-2524-2-ND†	173.60/2,800			B32529C224K189
	40	0.22	±10%	2.5	6.5	7.2	5.0	495-2524-3-ND‡	198.40/3,200			B32529C224K289

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
63	40	0.22	±10%	2.5	6.5	7.2	5.0	495-2524-ND	.18	1.34	9.58	B32529C224K
	40	0.33	±5%	3.0	6.5	7.2	5.0	495-1108-ND	.37	2.52	17.74	B32529C334J
	40	0.33	±5%	3.0	6.5	7.2	5.0	495-2547-3-ND‡	283.50/2,700			B32529C334J289
	40	0.33	±10%	3.0	6.5	7.2	5.0	495-2548-2-ND†	237.60/2,400			B32529C334K189
	40	0.33	±10%	3.0	6.5	7.2	5.0	495-2548-ND	.29	2.13	15.20	B32529C334K
	40	0.47	±5%	3.5	8.0	7.2	5.0	495-1110-ND	.41	2.75	19.39	B32529C474J
	40	0.47	±5%	3.5	8.0	7.2	5.0	495-2560-3-ND‡	264.50/2,300			B32529C474J289
	40	0.47	±10%	3.5	8.0	7.2	5.0	495-2561-2-ND†	220.00/2,000			B32529C474K189
	40	0.47	±10%	3.5	8.0	7.2	5.0	495-2561-3-ND‡	253.00/2,300			B32529C474K289
	40	0.47	±10%	3.5	8.0	7.2	5.0	495-2561-ND	.32	2.36	16.88	B32529C474K
	40	0.68	±5%	4.5	9.5	7.3	5.0	495-1114-ND	.46	3.39	24.20	B32529C684J
	40	0.68	±5%	4.5	9.5	7.3	5.0	495-2582-3-ND‡	284.40/1,800			B32529C684J289
	40	1.0	±5%	4.5	9.5	7.3	5.0	495-1119-ND	.49	3.62	25.88	B32529C105J
	40	1.0	±5%	4.5	9.5	7.3	5.0	495-2468-2-ND†	253.50/1,500			B32529C105J189
	40	1.0	±5%	4.5	9.5	7.3	5.0	495-2468-3-ND‡	304.20/1,800			B32529C105J289
	40	1.0	±10%	4.5	9.5	7.3	5.0	495-2470-2-ND†	241.50/1,500			B32529C105K189
	40	1.0	±10%	4.5	9.5	7.3	5.0	495-2470-3-ND‡	289.80/1,800			B32529C105K289
	40	1.0	±10%	4.5	9.5	7.3	5.0	495-2470-ND	.47	3.47	24.75	B32529C105K
	40	1.5	±5%	6.0	10.5	7.5	5.0	495-1122-ND	1.06	7.92	58.16	B32529C155J
	40	1.5	±10%	6.0	10.5	7.5	5.0	495-2512-2-ND†	423.50/1,100			B32529C155K189
	40	2.2	±5%	7.8	13.0	7.8	5.0	495-1127-ND	1.46	10.98	82.35	B32529D225J
	40	3.3	±5%	7.8	13.0	7.8	5.0	495-4010-ND	2.36	17.73	132.98	B32529D0335J
100	63	0.047	±5%	2.5	7.0	10.0	7.5	495-1144-ND	.32	2.48	16.74	B32520C1473J
	63	0.10	±5%	2.5	7.0	10.0	7.5	495-1148-ND	.37	2.52	17.74	B32520C1104J
	63	0.10	±5%	2.5	7.0	10.0	7.5	495-2422-2-ND†	294.00/2,800			B32520C1104J189
	63	0.15	±5%	3.0	8.0	10.0	7.5	495-1150-ND	.43	2.90	20.43	B32520C1154J
	63	0.22	±5%	3.0	8.0	10.0	7.5	495-1153-ND	.49	3.33	23.51	B32520C1224J
	63	0.22	±10%	3.0	8.0	10.0	7.5	495-2425-ND	.38	2.84	20.25	B32520C1224K
	63	0.33	±5%	4.0	8.5	10.0	7.5	495-1156-ND	.49	3.62	25.88	B32520C1334J
	63	0.33	±10%	4.0	8.5	10.0	7.5	495-4163-ND ***NEW!***	.47	3.47	24.75	B32520C1334K
	63	0.47	±5%	5.0	10.5	10.0	7.5	495-1162-ND	.58	4.31	30.75	B32520C1474J
	63	0.68	±5%	6.0	12.0	10.3	7.5	495-1165-ND	.76	5.59	39.95	B32520C1684J
	63	0.10	±5%	4.0	7.0	13.0	10.0	495-1149-ND	.41	2.75	19.39	B32521C1104J
	63	0.10	±10%	4.0	7.0	13.0	10.0	495-4167-ND ***NEW!***	.32	2.36	16.88	B32521C1104K
	63	0.22	±5%	4.0	7.0	13.0	10.0	495-1154-ND	.54	3.69	25.99	B32521C1224J
	63	0.33	±5%	4.0	7.0	13.0	10.0	495-1159-ND	.50	3.68	26.25	B32521C1334J
	63	0.47	±5%	4.0	9.0	13.0	10.0	495-1163-ND	.63	4.65	33.20	B32521C1474J
	63	0.47	±10%	4.0	9.0	13.0	10.0	495-4168-ND ***NEW!***	.60	4.41	31.50	B32521C1474K
	63	0.68	±5%	5.0	11.0	13.0	10.0	495-1164-ND	.77	5.67	40.50	B32521C1684J
	63	1.0	±5%	6.0	12.0	13.0	10.0	495-1167-ND	.90	6.67	49.00	B32521C1105J
	63	0.33	±5%	5.0	10.5	18.0	15.0	495-1157-ND	.56	4.10	29.25	B32522C1334J
	63	0.47	±5%	5.0	10.5	18.0	15.0	495-1161-ND	.57	4.20	30.00	B32522C1474J
	63	1.0	±5%	5.0	10.5	18.0	15.0	495-1168-ND	.92	6.82	50.06	B32522C1105J
	63	1.0	±10%	5.0	10.5	18.0	15.0	495-2448-ND	.96	7.09	50.63	B32522C1105K
	63	1.0	±10%	5.0	10.5	18.0	15.0	495-4174-2-ND† ***NEW!***	452.40/1,300			B32522C1105K189
	63	1.5	±5%	6.0	11.0	18.0	15.0	495-1171-ND	1.20	8.93	65.57	B32522C1155J
	63	1.5	±10%	6.0	11.0	18.0	15.0	495-4175-ND ***NEW!***	1.26	9.29	66.38	B32522C1155K
	63	2.2	±5%	7.0	12.5	18.0	15.0	495-1172-ND	1.55	11.61	87.08	B32522C1225J
	63	2.2	±10%	7.0	12.5	18.0	15.0	495-4176-ND ***NEW!***	1.75	12.92	92.25	B32522C1225K
	63	3.3	±5%	8.5	14.5	18.0	15.0	495-1173-ND	2.15	16.11	120.83	B32522C1335J
	63	4.7	±10%	7.0	16.0	26.5	22.5	495-4097-ND	3.10	22.84	163.13	B32523Q1475K
	63	6.8	±10%	8.5	16.5	26.5	22.5	495-4098-ND	4.16	30.66	219.00	B32523Q1685K
	63	10	±10%	10.5	16.5	26.5	22.5	495-4099-ND	5.88	43.31	309.38	B32523Q1106K
	63	6.8	±10%	11.0	21.0	31.5	27.5	495-4102-ND	4.60	33.86	241.88	B32524Q1685K
	63	15	±10%	11.0	21.0	31.5	27.5	495-4103-ND	8.98	66.15	472.50	B32524Q1156K
	63	22	±10%	13.5	23.0	31.5	27.5	495-4104-ND	11.22	82.69	590.63	B32524Q1226K
	63	68	±10%	22.0	36.5	31.5	27.5	495-4131-ND ***NEW!***	25.20	189.00	1417.50	B32524Q1686K
	63	0.001	±5%	2.5	6.5	7.2	5.0	495-1132-ND	.19	1.45	9.77	B32529C1102J
	63	0.001	±5%	2.5	6.5	7.2	5.0	495-2473-3-ND‡	163.20/3,200			B32529C1102J289
	63	0.0015	±5%	2.5	6.5	7.2	5.0	495-1133-ND	.19	1.45	9.77	B32529C1152J
	63	0.0022	±5%	2.5	6.5	7.2	5.0	495-1134-ND	.19	1.45	9.77	B32529C1222J

‡ Tape and Box † Tape and Reel ◊ Cut Tape

(Continued)

EPCOS

Metallized Polyester Film Capacitors

MKT Series *(Cont.)*

RoHS COMPLIANT

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
100	63	0.0022	±5%	2.5	6.5	7.2	5.0	495-2484-2-ND†	142.80/2,800			B32529C1222J189
	63	0.0022	±10%	2.5	6.5	7.2	5.0	495-2486-3-ND‡	160.00/3,200			B32529C1222K289
	63	0.0022	±10%	2.5	6.5	7.2	5.0	495-2486-ND	.15	1.08	7.70	B32529C1222K
	63	0.0033	±5%	2.5	6.5	7.2	5.0	495-1135-ND	.19	1.45	9.77	B32529C1332J
	63	0.0047	±5%	2.5	6.5	7.2	5.0	495-1136-ND	.19	1.45	9.77	B32529C1472J
	63	0.0068	±5%	2.5	6.5	7.2	5.0	495-1137-ND	.19	1.45	9.77	B32529C1682J
	63	0.010	±5%	2.5	6.5	7.2	5.0	495-1138-ND	.19	1.45	9.77	B32529C1103J
	63	0.010	±5%	2.5	6.5	7.2	5.0	495-2475-2-ND†	142.80/2,800			B32529C1103J189
	63	0.010	±5%	2.5	6.5	7.2	5.0	495-2475-3-ND‡	163.20/3,200			B32529C1103J289
	63	0.010	±10%	2.5	6.5	7.2	5.0	495-2477-ND	.15	1.08	7.70	B32529C1103K
	63	0.015	±5%	2.5	6.5	7.2	5.0	495-1139-ND	.19	1.45	9.77	B32529C1153J
	63	0.022	±5%	2.5	6.5	7.2	5.0	495-1140-ND	.19	1.45	9.77	B32529C1223J
	63	0.022	±5%	2.5	6.5	7.2	5.0	495-4189-2-ND† ***NEW!***	142.80/2,800			B32529C1223J189
	63	0.022	±5%	2.5	6.5	7.2	5.0	495-2488-3-ND‡	163.20/3,200			B32529C1223J289
	63	0.022	±10%	2.5	6.5	7.2	5.0	495-2489-ND	.15	1.08	7.70	B32529C1223K
	63	0.033	±5%	2.5	6.5	7.2	5.0	495-1141-ND	.19	1.45	9.77	B32529C1333J
	63	0.033	±5%	2.5	6.5	7.2	5.0	495-2494-3-ND‡	163.20/3,200			B32529C1333J289
	63	0.047	±5%	2.5	6.5	7.2	5.0	495-1143-ND	.19	1.45	9.77	B32529C1473J
	63	0.068	±5%	2.5	6.5	7.2	5.0	495-1146-ND	.19	1.45	9.77	B32529C1683J
	63	0.068	±5%	2.5	6.5	7.2	5.0	495-2514-3-ND‡	163.20/3,200			B32529C1683J289
	63	0.10	±5%	2.5	6.5	7.2	5.0	495-1147-ND	.19	1.45	9.77	B32529C1104J
	63	0.10	±5%	2.5	6.5	7.2	5.0	495-2479-2-ND†	142.80/2,800			B32529C1104J189
	63	0.10	±10%	2.5	6.5	7.2	5.0	495-2481-2-ND†	140.00/2,800			B32529C1104K189
	63	0.10	±10%	2.5	6.5	7.2	5.0	495-2481-3-ND‡	160.00/3,200			B32529C1104K289
	63	0.10	±10%	2.5	6.5	7.2	5.0	495-2481-ND	.15	1.08	7.70	B32529C1104K
	63	0.15	±5%	3.0	6.5	7.2	5.0	495-1151-ND	.30	2.05	14.44	B32529C1154J
	63	0.22	±5%	3.5	8.0	7.2	5.0	495-1155-ND	.32	2.16	15.26	B32529C1224J
	63	0.22	±5%	3.5	8.0	7.2	5.0	495-2491-3-ND‡	207.00/2,300			B32529C1224J289
	63	0.22	±10%	3.5	8.0	7.2	5.0	495-2492-3-ND‡	197.80/2,300			B32529C1224K289
	63	0.22	±10%	3.5	8.0	7.2	5.0	495-2492-ND	.25	1.84	13.13	B32529C1224K
	63	0.33	±5%	3.5	8.0	7.2	5.0	495-1158-ND	.43	2.90	20.43	B32529C1334J
	63	0.47	±5%	4.5	9.5	7.3	5.0	495-1160-ND	.39	2.89	20.63	B32529C1474J
	63	0.47	±5%	4.5	9.5	7.3	5.0	495-2502-3-ND‡	241.20/1,800			B32529C1474J289
	63	0.47	±10%	4.5	9.5	7.3	5.0	495-2503-2-ND†	192.00/1,500			B32529C1474K189
	63	0.47	±10%	4.5	9.5	7.3	5.0	495-2503-3-ND‡	230.40/1,800			B32529C1474K289
	63	0.47	±10%	4.5	9.5	7.3	5.0	495-2503-ND	.37	2.76	19.70	B32529C1474K
	63	0.68	±10%	6.0	10.5	7.5	5.0	495-2515-ND	.59	4.33	30.95	B32529C1684K
	63	1.0	±5%	7.8	13.0	7.8	5.0	495-1169-ND	.96	7.15	52.52	B32529D1105J
250	160	0.015	±5%	2.5	7.0	10.0	7.5	495-1181-ND	.33	2.55	17.21	B32520C3153J
	160	0.022	±5%	2.5	7.0	10.0	7.5	495-1184-ND	.33	2.55	17.21	B32520C3223J
	160	0.022	±10%	2.5	7.0	10.0	7.5	495-2428-ND	.25	1.84	13.13	B32520C3223K
	160	0.033	±5%	2.5	7.0	10.0	7.5	495-1186-ND	.32	2.16	15.26	B32520C3333J
	160	0.047	±5%	2.5	7.0	10.0	7.5	495-1188-ND	.33	2.22	15.68	B32520C3473J
	160	0.10	±5%	4.0	8.5	10.0	7.5	495-1197-ND	.39	2.66	18.78	B32520C3104J
	160	0.10	±10%	4.0	8.5	10.0	7.5	495-2426-ND	.31	2.29	16.33	B32520C3104K
	160	0.047	±5%	4.0	7.0	13.0	10.0	495-1189-ND	.38	2.55	17.96	B32521C3473J
	160	0.047	±10%	4.0	7.0	13.0	10.0	495-4170-ND ***NEW!***	.29	2.15	15.38	B32521C3473K
	160	0.068	±5%	4.0	7.0	13.0	10.0	495-1193-ND	.41	2.75	19.39	B32521C3683J
	160	0.10	±5%	4.0	7.0	13.0	10.0	495-1194-ND	.42	2.87	20.21	B32521C3104J
	160	0.10	±5%	4.0	7.0	13.0	10.0	495-1194-3-ND‡	120.00/1,000			B32521C3104J289
	160	0.10	±10%	4.0	7.0	13.0	10.0	495-2437-ND	.33	2.44	17.45	B32521C3104K
	160	0.10	±10%	4.0	7.0	13.0	10.0	495-4169-2-ND† ***NEW!***	193.80/1,700			B32521C3104K189
	160	0.15	±5%	4.0	9.0	13.0	10.0	495-1201-ND	.57	3.86	27.23	B32521C3154J
	160	0.22	±5%	5.0	11.0	13.0	10.0	495-1203-ND	.55	4.04	28.88	B32521C3224J
	160	0.22	±10%	5.0	11.0	13.0	10.0	495-2439-ND	.52	3.86	27.58	B32521C3224K
	160	0.33	±5%	5.0	11.0	13.0	10.0	495-1206-ND	.64	4.73	33.75	B32521C3334J
	160	0.47	±5%	6.0	12.0	13.0	10.0	495-1208-ND	.83	6.09	43.50	B32521C3474J
	160	0.47	±10%	6.0	12.0	13.0	10.0	495-2440-2-ND†	298.10/1,100			B32521C3474K189
	160	0.47	±10%	6.0	12.0	13.0	10.0	495-2440-ND	.79	5.83	41.63	B32521C3474K
	160	0.10	±5%	5.0	10.5	18.0	15.0	495-1195-ND	.52	3.83	27.38	B32522C3104J
	160	0.10	±10%	5.0	10.5	18.0	15.0	495-4177-ND ***NEW!***	.49	3.62	25.88	B32522C3104K
	160	0.15	±5%	5.0	10.5	18.0	15.0	495-1198-ND	.54	3.99	28.50	B32522C3154J
	160	0.22	±5%	5.0	10.5	18.0	15.0	495-1202-ND	.54	3.99	28.50	B32522C3224J
	160	0.33	±5%	5.0	10.5	18.0	15.0	495-1205-ND	.61	4.46	31.88	B32522C3334J
	160	0.33	±10%	5.0	10.5	18.0	15.0	495-4178-ND ***NEW!***	.58	4.25	30.38	B32522C3334K
	160	0.47	±5%	6.0	11.0	18.0	15.0	495-1207-ND	.77	5.65	40.33	B32522C3474J
	160	0.47	±10%	6.0	11.0	18.0	15.0	495-4179-ND ***NEW!***	.73	5.36	38.25	B32522C3474K
	160	0.68	±5%	7.0	12.5	18.0	15.0	495-1209-ND	.86	6.41	47.07	B32522C3684J
	160	1.0	±5%	8.5	14.5	18.0	15.0	495-1210-ND	.92	6.86	50.41	B32522C3105J
	160	1.0	±5%	8.5	14.5	18.0	15.0	495-1211-ND	.80	5.95	43.71	B32522N3105J
	160	1.0	±10%	8.5	14.5	18.0	15.0	495-4181-ND ***NEW!***	.84	6.17	44.08	B32522N3105K
	160	1.0	±10%	8.5	14.5	18.0	15.0	495-2450-ND	.97	7.17	51.20	B32522C3105K
	160	1.5	±10%	9.0	17.5	18.0	15.0	495-2451-ND	1.38	10.16	72.58	B32522C3155K
	160	1.0	±10%	6.0	15.0	26.5	22.5	495-4182-ND ***NEW!***	1.26	9.29	66.38	B32523Q3105K
	160	2.2	±10%	10.5	16.5	26.5	22.5	495-4183-ND ***NEW!***	1.82	13.39	95.63	B32523Q3225K
	160	3.3	±5%	11.0	20.5	26.5	22.5	495-2454-ND	2.69	19.85	141.75	B32523Q3335J
	160	10	±10%	18.0	27.5	31.5	27.5	495-4184-ND ***NEW!***	6.95	51.19	365.63	B32524Q3106K
	160	2.2	±10%	11.0	21.0	31.5	27.5	495-4185-ND ***NEW!***	2.57	18.90	135.00	B32524Q3225K
	160	4.7	±10%	11.0	21.0	31.5	27.5	495-4186-ND ***NEW!***	3.63	26.78	191.25	B32524Q3475K
	160	0.001	±5%	2.5	6.5	7.2	5.0	495-1174-ND	.20	1.52	10.23	B32529C3102J
	160	0.0022	±5%	2.5	6.5	7.2	5.0	495-1176-ND	.20	1.52	10.23	B32529C3222J
	160	0.0022	±10%	2.5	6.5	7.2	5.0	495-2537-ND	.15	1.10	7.88	B32529C3222K
	160	0.0033	±5%	2.5	6.5	7.2	5.0	495-1177-ND	.20	1.52	10.23	B32529C3332J
	160	0.0047	±5%	2.5	6.5	7.2	5.0	495-1178-ND	.20	1.52	10.23	B32529C3472J
	160	0.01	±5%	2.5	6.5	7.2	5.0	495-1180-ND	.20	1.52	10.23	B32529C3103J
	160	0.01	±10%	2.5	6.5	7.2	5.0	495-2527-ND	.15	1.10	7.88	B32529C3103K
	160	0.015	±5%	2.5	6.5	7.2	5.0	495-1182-ND	.20	1.52	10.23	B32529C3153J
	160	0.022	±5%	2.5	6.5	7.2	5.0	495-1183-ND	.20	1.52	10.23	B32529C3223J
	160	0.022	±10%	2.5	6.5	7.2	5.0	495-2539-1-ND◊	.13	1.10	9.45	B32529C3223K289
	160	0.022	±10%	2.5	6.5	7.2	5.0	495-2539-ND	.15	1.10	7.88	B32529C3223K
	160	0.033	±5%	3.0	6.5	7.2	5.0	495-1187-ND	.30	2.28	15.35	B32529C3333J
	160	0.033	±10%	3.0	6.5	7.2	5.0	495-2543-3-ND‡	207.90/2,700			B32529C3333K289
	160	0.033	±10%	3.0	6.5	7.2	5.0	495-2543-ND	.22	1.66	11.83	B32529C3333K
	160	0.047	±5%	3.5	8.0	7.2	5.0	495-1190-ND	.32	2.48	16.74	B32529C3473J
	160	0.047	±5%	3.5	8.0	7.2	5.0	495-2551-3-ND‡	202.40/2,300			B32529C3473J289
	160	0.068	±5%	4.5	9.5	7.3	5.0	495-1192-ND	.38	2.61	18.37	B32529C3683J
	160	0.10	±5%	4.5	9.5	7.3	5.0	495-1196-ND	.39	2.66	18.78	B32529C3104J
	160	0.10	±5%	4.5	9.5	7.3	5.0	495-2530-2-ND†	166.50/1,500			B32529C3104J189
	160	0.10	±10%	4.5	9.5	7.3	5.0	495-2532-3-ND‡	190.80/1,800			B32529C3104K289
	160	0.10	±10%	4.5	9.5	7.3	5.0	495-2532-ND	.31	2.29	16.33	B32529C3104K
	160	0.15	±5%	5.0	10.0	7.5	5.0	495-1200-ND	.52	3.51	24.75	B32529C3154J
	160	0.22	±5%	7.8	13.0	7.8	5.0	495-1204-ND	.64	4.73	33.75	B32529D3224J
400	200	0.001	±5%	2.5	7.0	10.0	7.5	495-1212-ND	.33	2.55	17.21	B32520C6102J
	200	0.001	±10%	2.5	7.0	10.0	7.5	495-4164-ND ***NEW!***	.25	1.84	13.13	B32520C6102K
	200	0.0022	±5%	2.5	7.0	10.0	7.5	495-1216-ND	.33	2.55	17.21	B32520C6222J
	200	0.022	±10%	4.0	8.5	10.0	7.5	495-4165-ND ***NEW!***	.29	2.10	15.00	B32520C6223K
	200	0.0033	±5%	2.5	7.0	10.0	7.5	495-1218-ND	.33	2.55	17.21	B32520C6332J
	200	0.0047	±5%	2.5	7.0	10.0	7.5	495-1221-ND	.33	2.55	17.21	B32520C6472J
	200	0.01	±5%	2.5	7.0	10.0	7.5	495-1226-ND	.33	2.55	17.21	B32520C6103J
	200	0.01	±10%	2.5	7.0	10.0	7.5	495-2430-3-ND‡	275.20/3,200			B32520C6103K289
	200	0.01	±10%	2.5	7.0	10.0	7.5	495-2430-ND	.25	1.84	13.13	B32520C6103K
	200	0.015	±5%	3.0	8.0	10.0	7.5	495-1227-ND	.35	2.40	16.91	B32520C6153J
	200	0.022	±5%	4.0	8.5	10.0	7.5	495-1232-ND	.36	2.46	17.33	B32520C6223J
	200	0.033	±5%	5.0	10.5	10.0	7.5	495-1233-ND	.43	2.93	20.63	B32520C6333J
	200	0.047	±5%	5.0	10.5	10.0	7.5	495-1238-ND	.46	3.10	21.86	B32520C6473J
	200	0.047	±10%	5.0	10.5	10.0	7.5	495-4166-ND ***NEW!***	.36	2.68	19.13	B32520C6473K
	200	0.01	±5%	4.0	7.0	13.0	10.0	495-1225-ND	.41	2.75	19.39	B32521C6103J
	200	0.01	±10%	4.0	7.0	13.0	10.0	495-2442-ND	.32	2.36	16.88	B32521C6103K
	200	0.022	±5%	4.0	7.0	13.0	10.0	495-1230-ND	.46	3.10	21.86	B32521C6223J
	200	0.022	±10%	4.0	7.0	13.0	10.0	495-4171-ND ***NEW!***	.36	2.68	19.13	B32521C6223K
	200	0.033	±5%	4.0	9.0	13.0	10.0	495-1234-ND	.47	3.22	22.69	B32521C6333J
	200	0.033	±10%	4.0	9.0	13.0	10.0	495-4172-ND ***NEW!***	.37	2.76	19.70	B32521C6333K
	200	0.047	±5%	5.0	11.0	13.0	10.0	495-1239-ND	.45	3.31	23.63	B32521C6473J
	200	0.068	±5%	5.0	11.0	13.0	10.0	495-1242-ND	.53	3.89	27.75	B32521C6683J
	200	0.068	±10%	5.0	11.0	13.0	10.0	495-4173-ND ***NEW!***	.50	3.70	26.45	B32521C6683K
	200	0.10	±5%	6.0	12.0	13.0	10.0	495-1243-ND	.56	4.15	29.63	B32521C6104J
	200	0.10	±10%	6.0	12.0	13.0	10.0	495-2444-3-ND‡	132.60/680			B32521C6104K289
	200	0.10	±10%	6.0	12.0	13.0	10.0	495-2444-ND	.53	3.94	28.13	B32521C6104K
	200	0.047	±5%	5.0	10.5	18.0	15.0	495-1236-ND	.57	4.20	30.00	B32522C6473J
	200	0.10	±5%	5.0	10.5	18.0	15.0	495-1244-ND	.61	4.52	32.25	B32522C6104J
	200	0.10	±10%	5.0	10.5	18.0	15.0	495-2452-ND	.59	4.33	30.95	B32522C6104K
	200	0.15	±5%	6.0	11.0	18.0	15.0	495-1247-ND	.66	4.88	34.88	B32522C6154J
	200	0.22	±5%	7.0	12.5	18.0	15.0	495-1249-ND	.72	5.28	37.70	B32522C6224J
	200	0.22	±10%	7.0	12.5	18.0	15.0	495-4180-ND ***NEW!***	.68	5.04	36.00	B32522C6224K
	200	0.33	±5%	8.5	14.5	18.0	15.0	495-1251-ND	.78	5.78	41.25	B32522C6334J
	200	0.47	±10%	9.0	17.5	18.0	15.0	495-2453-ND	1.13	8.35	59.63	B32522C6474K
	200	1.0	±10%	10.5	16.5	26.5	22.5	495-2455-ND	1.52	11.24	80.25	B32523Q6105K
	200	1.0	±10%	11.0	19.0	31.5	27.5	495-4187-ND ***NEW!***	2.35	17.33	123.75	B32524Q6105K
	200	2.2	±10%	12.5	21.5	31.5	27.5	495-4188-ND ***NEW!***	2.73	20.08	143.45	B32524Q6225K
	200	0.001	±5%	2.5	6.5	7.2	5.0	495-1213-ND	.21	1.59	10.70	B32529C6102J
	200	0.001	±10%	2.5	6.5	7.2	5.0	495-2564-ND	.16	1.18	8.45	B32529C6102K
	200	0.0022	±5%	2.5	6.5	7.2	5.0	495-1217-ND	.21	1.59	10.70	B32529C6222J
	200	0.0022	±10%	2.5	6.5	7.2	5.0	495-2573-3-ND‡	176.00/3,200			B32529C6222K289
	200	0.0022	±10%	2.5	6.5	7.2	5.0	495-2573-ND	.16	1.18	8.45	B32529C6222K
	200	0.0033	±5%	2.5	6.5	7.2	5.0	495-1219-ND	.21	1.59	10.70	B32529C6332J
	200	0.0033	±10%	2.5	6.5	7.2	5.0	495-2575-3-ND‡	176.00/3,200			B32529C6332K289
	200	0.0033	±10%	2.5	6.5	7.2	5.0	495-2575-ND	.16	1.18	8.45	B32529C6332K
	200	0.0047	±5%	2.5	6.5	7.2	5.0	495-1220-ND	.21	1.59	10.70	B32529C6472J
	200	0.0047	±5%	2.5	6.5	7.2	5.0	495-2577-3-ND‡	179.20/3,200			B32529C6472J289
	200	0.0047	±10%	2.5	6.5	7.2	5.0	495-2578-3-ND‡	176.00/3,200			B32529C6472K289
	200	0.0047	±10%	2.5	6.5	7.2	5.0	495-2578-ND	.16	1.18	8.45	B32529C6472K
	200	0.0068	±5%	2.5	6.5	7.2	5.0	495-1223-ND	.21	1.59	10.70	B32529C6682J
	200	0.01	±5%	3.0	6.5	7.2	5.0	495-1224-ND	.28	2.18	14.66	B32529C6103J
	200	0.01	±10%	3.0	6.5	7.2	5.0	495-2567-ND	.21	1.58	11.25	B32529C6103K
	200	0.012	±5%	3.5	8.0	7.2	5.0	495-2569-3-ND‡	177.10/2,300			B32529C6123J289
	200	0.012	±5%	3.5	8.0	7.2	5.0	495-2569-ND	.22	1.66	11.83	B32529C6123J
	200	0.015	±5%	3.5	8.0	7.2	5.0	495-1228-ND	.29	2.21	14.88	B32529C6153J
	200	0.015	±5%	3.5	8.0	7.2	5.0	495-2571-3-ND‡	179.40/2,300			B32529C6153J289
	200	0.022	±5%	4.5	9.5	7.3	5.0	495-1231-ND	.31	2.11	14.85	B32529C6223J
	200	0.047	±5%	6.0	10.5	7.5	5.0	495-1237-ND	.39	2.66	18.73	B32529B6473J
	200	0.10	±5%	7.8	13.0	7.8	5.0	495-1246-ND	.61	4.46	31.88	B32529D6104J
450	200	0.10	±5%	5.0	10.5	18.0	15.0	495-1245-ND	.48	3.52	25.13	B32522N6104J
	200	0.22	±5%	6.0	11.0	18.0	15.0	495-1250-ND	.63	4.67	33.38	B32522N6224J
	200	0.33	±5%	8.5	14.5	18.0	15.0	495-1252-ND	.68	5.04	36.00	B32522N6334J
	200	0.47	±5%	8.5	14.5	18.0	15.0	495-1253-ND	.80	5.98	43.90	B32522N6474J
	200	0.68	±5%	9.0	17.5	18.0	15.0	495-1254-ND	1.10	8.11	57.95	B32522N6684J
630	200	0.0068	±5%	4.0	9.0	13.0	10.0	495-1260-ND	.56	4.10	29.25	B32521N8682J
	200	0.01	±5%	4.0	9.0	13.0	10.0	495-1261-ND	.56	4.10	29.25	B32521N8103J
	200	0.01	±20%	4.0	9.0	13.0	10.0	495-4116-ND ***NEW!***	.38	2.80	20.00	B32521N8103M
	200	0.022	±5%	5.0	11.0	13.0	10.0	495-1264-ND	.56	4.10	29.25	B32521N8223J
	200	0.033	±5%	6.0	12.0	13.0	10.0	495-1265-ND	.57	4.20	30.00	B32521N8333J
	200	0.033	±20%	6.0	12.0	13.0	10.0	495-4117-ND ***NEW!***	.55	4.02	28.70	B32521N8333M
	200	0.033	±5%	5.0	10.5	18.0	15.0	495-1266-ND	.61	4.46	31.88	B32522Q8333J
	200	0.047	±5%	5.0	10.5	18.0	15.0	495-1267-ND	.61	4.46	31.88	B32522Q8473J
	200	0.047	±20%	5.0	10.5	18.0	15.0	495-4118-ND ***NEW!***	.58	4.25	30.38	B32522Q8473M
	200	0.068	±5%	6.0	11.0	18.0	15.0	495-1268-ND	.77	5.87	39.53	B32522Q8683J
	200	0.068	±20%	6.0	11.0	18.0	15.0	495-4119-ND ***NEW!***	.62	4.55	32.50	B32522Q8683M
	200	0.10	±5%	7.0	12.5	18.0	15.0	495-1269-ND	.68	5.04	36.00	B32522Q8104J
	200	0.10	±20%	7.0	12.5	18.0	15.0	495-4120-ND ***NEW!***	.69	5.11	36.50	B32522Q8104M
	400	0.001	±5%	2.5	6.5	7.2	5.0	495-1255-ND	.34	2.28	16.09	B32529C8102J
	400	0.0022	±5%	2.5	6.5	7.2	5.0	495-1256-ND	.34	2.28	16.09	B32529C8222J
	400	0.0022	±10%	2.5	6.5	7.2	5.0	495-2583-ND	.27	1.97	14.08	B32529C8222K
	400	0.0033	±5%	3.5	8.0	7.2	5.0	495-1257-ND	.37	2.52	17.74	B32529C8332J
	400	0.0033	±10%	3.5	8.0	7.2	5.0	495-2587-3-ND‡	227.70/2,300			B32529C8332K289
	400	0.0033	±10%	3.5	8.0	7.2	5.0	495-2587-ND	.29	2.13	15.20	B32529C8332K
	400	0.0047	±5%	3.5	8.0	7.2	5.0	495-1258-ND	.37	2.52	17.74	B32529C8472J
	400	0.0068	±5%	3.5	8.0	7.2	5.0	495-1259-ND	.39	2.66	18.78	B32529C8682J
	400	0.010	±5%	5.0	10.0	7.5	5.0	495-1262-ND	.46	3.10	21.86	B32529C8103J

‡ Tape and Box † Tape and Reel ◊ Cut Tape

(Continued)

F

MKT Wound Series

Construction: • Dielectric: polyethylene terephthalate (polyester, PET) • Cylindrical winding • Insulating sleeve • Face ends sealed with epoxy resin **Applications:** • Smoothing • Filtering **Specifications:** • Operating Temperature Range: -40°C ~ 100°C • DC Test Voltage: 1.4 V_R for 2 sec. • Tolerance: ±10%

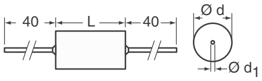

WV (DC)	WV (AC)	Cap. (µF)	Dimensions (mm) ød	ød1	L	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
100	63	0.10	6.0	0.6	14.0	495-3516-ND	.86	6.37	45.50	B32232A1104K
	63	0.22	6.0	0.6	14.0	495-3520-ND	.91	6.70	47.83	B32232A1224K
	63	0.33	6.0	0.6	19.0	495-3522-ND	.60	4.45	31.75	B32232A1334K
	63	0.47	6.5	0.6	19.0	495-3524-ND	1.11	8.17	58.33	B32232A1474K
	63	1.0	8.5	0.8	19.0	495-3517-ND	1.12	8.40	63.00	B32232A1105K
	63	1.5	8.0	0.8	27.0	495-3519-ND	1.40	10.50	78.75	B32232A1155K
	63	2.2	9.5	0.8	27.0	495-3521-ND	1.87	14.00	105.01	B32232A1225K
	63	3.3	11.5	0.8	27.0	495-3523-ND	2.45	18.55	140.00	B32232A1335K
	63	4.7	12.0	0.8	32.0	495-3525-ND	2.86	21.64	163.34	B32232A1475K
	63	6.8	14.0	0.8	32.0	495-3527-ND	4.08	30.92	233.34	B32232A1685K
250	160	0.10	6.0	0.6	14.0	495-3528-ND	.94	6.94	49.58	B32232A3104K
	160	0.22	6.0	0.6	19.0	495-3530-ND	.95	7.14	53.55	B32232A3224K
	160	0.33	8.0	0.8	19.0	495-3532-ND	.66	4.83	34.50	B32232A3334K
	160	0.68	8.0	0.8	27.0	495-3536-ND	.78	5.74	41.00	B32232A3684K
	160	1.0	10.0	0.8	27.0	495-3529-ND	1.40	10.50	78.75	B32232A3105K
	160	2.2	10.5	0.8	32.0	495-3531-ND	2.33	17.50	131.24	B32232A3225K
	160	3.3	14.0	0.8	32.0	495-3533-ND	2.86	21.64	163.34	B32232A3335K
400	200	0.10	7.0	0.6	19.0	495-3538-ND	1.00	7.35	52.50	B32232A6104K
	200	0.47	11.0	0.8	27.0	495-3540-ND	1.17	8.75	65.63	B32232A6474K
	200	0.68	11.5	0.8	32.0	495-3541-ND	.93	6.86	49.00	B32232A6684K
630	200	0.033	6.5	0.6	19.0	495-3546-ND	1.19	8.75	62.50	B32232A8333K
	200	0.047	7.5	0.8	19.0	495-3547-ND	1.19	8.75	62.50	B32232A8473K
	200	0.22	11.5	0.8	27.0	495-3545-ND	1.07	8.05	60.37	B32232A8224K
	200	0.47	14.5	0.8	32.0	495-3548-ND	1.80	13.50	101.25	B32232A8474K
	200	1.0	16.0	0.8	32.0	495-3543-ND	2.31	17.31	129.83	B32232A8105K

Mini-Blue Series MKT — In Heat-Shrinkable Tube

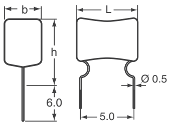

The EPCOS Mini-Blue Capacitor series can be used in a multitude of general purpose applications such as DSL, Energy Saving Lamps, Compact Fluorescent Lamps, Consumer Electronics and Alarm Systems (including motion sensors and break in/smoke/fire alarms). An advantage of the EPCOS Mini-Blue Capacitors is the small size where board space is limited, taking up considerably less board space than a boxed capacitor with the same voltage/capacitance ratings. The Mini-Blue's unique stacked construction give it the ability to withstand high pulse strength (High DV/DT).

Construction: • Dielectric: Polyethylene terephthalate (polyester) • Stacked-film technology • 5mm lead spacing • Heat shrinkable tube: polyester (100µm, 125°C) **Terminals**: • Parallel wire leads - tinned **Features**: • Very small dimensions • Self-healing properties • High pulse strength **Specifications**: • Operating temperature range: -55°C ~ 125°C • Climatic category: 55/125/56

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	L	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
							Bulk				
63	40	.22	±10%	3.0	10.0	7.0	495-2814-ND	.11	.86	7.34	B32559C224K000
	40	.33	±10%	3.0	10.0	7.0	495-2816-ND	.15	1.10	9.37	B32559C334K000
	40	.47	±10%	3.5	10.5	7.0	495-2818-ND	.21	1.56	13.28	B32559C474K000
	40	.68	±10%	3.5	12.0	7.0	495-2820-ND	.23	1.76	14.94	B32559C684K000
250	160	.15	±10%	5.0	14.0	7.0	495-2862-ND	.32	2.39	20.25	B32559C3154K000
400	200	.01	±10%	3.0	11.5	7.0	495-2868-ND	.10	.75	6.39	B32559C6103K000
630	400	.001	±10%	3.0	12.0	7.0	495-2890-ND	.25	1.86	15.75	B32559C8102K000

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	L	Digi-Key Part No.	Ammo Pack Qty.	Pricing	Epcos Part No.
							Tape and Box			
630	400	.0047	±10%	3.5	12.5	7.0	495-2901-3-ND	3,000	71.00/M	B32559C8472K289

MKT — Epoxy Resin Coating

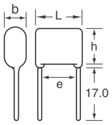

Construction: • Dielectric: Polyethylene terephthalate (polyester, PET) • Epoxy resin coating (UL 94 V-0)
Terminals: • Straight wire leads, lead free tinned, lead length 17mm
Features: • High pulse strength • High contact reliability
Specifications: • Maximum Operating Temperature: 125°C • Climatic category (IEC 60068-1): 55/100/56
Typical Applications: • Compact fluorescent lamps (CFL) • Generators

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
100	63	.33	±5%	5.5	9.0	13.0	10.0	495-3119-ND	.29	2.19	16.43	B32591C1334J008
	63	.47	±5%	6.0	9.5	13.0	10.0	495-3120-ND	.46	3.48	26.10	B32591C1474J008
	63	.68	±5%	7.0	10.5	13.0	10.0	495-3121-ND	.46	3.43	25.72	B32591C1684J008
	63	.68	±5%	5.5	10.5	18.0	15.0	495-3142-ND	.53	3.97	29.75	B32592C1684J008
	63	1.5	±5%	7.0	14.0	26.5	22.5	495-3164-ND	1.02	7.68	57.58	B32593C1155J008
	63	3.3	±5%	10.0	16.5	26.5	22.5	495-3166-ND	1.65	12.34	92.57	B32593C1335J008
	63	6.8	±5%	13.0	21.5	26.5	22.5	495-3168-ND	3.60	27.00	202.50	B32593C1685J008
	63	6.8	±5%	12.5	21.0	31.5	27.5	495-3180-ND	2.95	22.12	165.89	B32594C1685J008
250	160	.033	±5%	5.0	9.0	13.0	10.0	495-3123-ND	.17	1.25	9.38	B32591C3333J008
	160	.047	±5%	5.0	9.0	13.0	10.0	495-3124-ND	.17	1.25	9.38	B32591C3473J008
	160	.068	±5%	5.0	9.0	13.0	10.0	495-3125-ND	.18	1.34	10.08	B32591C3683J008
	160	.47	±5%	8.0	13.5	13.0	10.0	495-3130-ND	.48	3.63	27.20	B32591C3474J008
	160	.68	±5%	8.0	11.5	18.0	15.0	495-3151-ND	.64	4.82	36.11	B32592C3684J008
	160	.68	±5%	7.0	13.0	26.5	22.5	495-3169-ND	.99	7.44	55.80	B32593C3684J008
250	160	1.5	±5%	8.5	17.0	26.5	22.5	495-3171-ND	1.46	10.94	82.01	B32593C3155J008
	160	2.2	±5%	10.0	18.5	26.5	22.5	495-3172-ND	1.30	9.78	73.33	B32593C3225J008
	160	1.5	±5%	8.5	16.0	31.5	27.5	495-3182-ND	1.24	9.26	69.48	B32594C3155J008
	160	2.2	±5%	10.0	17.5	31.5	27.5	495-3183-ND	1.51	11.32	84.87	B32594C3225J008
400	200	.010	±5%	5.0	9.0	13.0	10.0	495-3131-ND	.22	1.66	12.42	B32591C6103J008
	200	.015	±5%	5.0	9.0	13.0	10.0	495-3132-ND	.22	1.66	12.42	B32591C6153J008
	200	.022	±5%	5.0	9.0	13.0	10.0	495-3133-ND	.22	1.66	12.42	B32591C6223J008
	200	.033	±5%	5.0	9.0	13.0	10.0	495-3134-ND	.29	2.16	16.20	B32591C6333J008
	200	.068	±5%	5.5	10.5	13.0	10.0	495-3136-ND	.31	2.30	17.21	B32591C6683J008
	200	.068	±5%	5.0	9.0	18.0	15.0	495-3153-ND	.38	2.85	21.35	B32592C6683J008
	200	.10	±5%	5.0	10.0	18.0	15.0	495-3154-ND	.40	3.03	22.75	B32592C6104J008
	200	.15	±5%	6.0	10.5	18.0	15.0	495-3155-ND	.42	3.17	23.81	B32592C6154J008
	200	.22	±5%	7.0	11.0	18.0	15.0	495-3156-ND	.45	3.41	25.56	B32592C6224J008
	200	.33	±5%	8.0	12.0	18.0	15.0	495-3157-ND	.63	4.74	—	B32592C6334J008
	200	.22	±5%	6.5	13.0	26.5	22.5	495-3173-ND	.62	4.62	34.65	B32593C6224J008
	200	.68	±5%	8.0	16.0	31.5	27.5	495-3187-ND	1.37	10.29	77.18	B32594C6684J008
	200	1.0	±5%	9.5	18.0	31.5	27.5	495-3188-ND	1.51	11.32	84.87	B32594C6105J008
	200	1.5	±5%	11.5	20.0	31.5	27.5	495-3189-ND	1.55	11.63	87.21	B32594C6155J008
	200	2.2	±5%	13.5	22.0	31.5	27.5	495-3190-ND	1.77	13.29	99.65	B32594C6225J008
630	200	.033	±5%	6.5	10.5	18.0	15.0	495-3160-ND	.39	2.96	22.16	B32592C8333J008
	200	.22	±5%	8.5	17.0	26.5	22.5	495-3178-ND	1.18	8.82	66.15	B32593C8224J008
	200	.33	±5%	8.0	15.0	31.5	27.5	495-3191-ND	1.29	9.69	72.65	B32594C8334J008

CombiSuppressor — PET Film Capacitor with Integrated Varistor

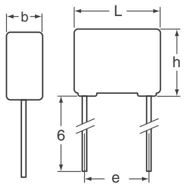

Features: With the CombiSuppressor series, Epcos has developed an innovative solution for EMI suppression in DC motors in motor vehicles. The CombiSuppressor comprises a film capacitor and a multilayer ceramic varistor connected in parallel in a plastic case. This packaging technology offers mechanical protection for the components and facilitates automatic picking and placement.
Construction: • Dielectric: Metallized polyethylene teraphthalate • Stacked-film capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing • SIOV metal oxide varistor
Specifications: • Operating Temperature Range: -55°C ~ 125°C, Meets ISO 7631 • Climatic category (IEC 60068-1): 55/125/56

Cap. (µF)	Cap. Rated Voltage	Clamp Voltage	iMax 8/20µs (A)	Dimensions (mm) b	h	L	e	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
0.47	26	54	200	4.5	9.5	7.8	5.0	495-3080-ND	1.12	8.32	61.10	B32529V3474J
0.68	26	54	200	4.5	9.5	7.8	5.0	495-3081-ND	1.12	8.32	61.10	B32529V3684J

Panasonic® ECQ-E(B) Series Miniaturized Metallized Polyester Film Capacitors

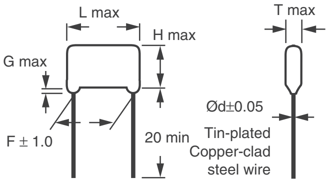

The type ECQ-E(B) series is a downsized version of the popular ECQ-E(F) series. It provides similar electrical characteristics in a smaller package.

Features:

• Noninductive construction • Wound metallized polyester dielectric

Applications:

• Blocking, bypassing, filtering, timing, interference suppression and low pulse applications

Specifications:

• Operating temperature range: -40°C ~ 85°C • Rated voltage: 250VDC • Capacitance tolerance: ±10%(K) @ 1kHZ • Dissipation factor: ≤1.0% (20°C 1kHz) • Withstand voltage: 250VDC X 150% for 60 seconds between terminals • Insulation resistance: ≥9,000MΩ (C ≤ 0.33μF) @ 100VDC, 20°C for 60 seconds; ≥3,000MΩ (C > 0.33μF) @ 100VDC, 20°C for 60 seconds

Voltage (VDC)	Cap. (μF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	50	100	500	1,000	
250	0.01	7.9	4.2	7.1	5.0	1.0	0.5	P10955-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2103KB
	0.012	7.9	4.2	7.1	5.0	1.0	0.5	P10956-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2123KB
	0.015	7.9	4.2	7.1	5.0	1.0	0.5	P10957-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2153KB
	0.018	7.9	4.3	7.2	5.0	1.0	0.5	P10958-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2183KB
	0.022	7.9	4.3	7.2	5.0	1.0	0.5	P10959-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2223KB
	0.027	7.9	4.3	7.2	5.0	1.0	0.5	P10960-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2273KB
	0.033	7.9	4.3	7.2	5.0	1.0	0.5	P10961-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2333KB
	0.039	7.9	4.5	7.4	5.0	1.0	0.5	P10962-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2393KB
	0.047	7.9	4.5	7.4	5.0	1.0	0.5	P10963-ND◆	.30	7.21	12.36	46.35	78.28	ECQ-E2473KB
	0.056	7.9	4.7	7.7	5.0	1.0	0.5	P10964-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2563KB
	0.068	7.9	5.1	8.0	5.0	1.0	0.5	P10965-ND◆	.36	8.80	15.09	56.59	95.57	ECQ-E2683KB
	0.082	7.9	5.4	8.6	5.0	1.0	0.5	P10966-ND◆	.40	9.61	16.47	61.76	104.31	ECQ-E2823KB
	0.1	7.9	5.9	9.0	5.0	1.0	0.5	P10967-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E2104KB
	0.12	7.9	5.7	10.6	5.0	1.0	0.5	P10968-ND◆	.46	11.22	19.23	72.11	121.79	ECQ-E2124KB
	0.15	7.9	6.3	11.2	5.0	1.0	0.5	P10969-ND◆	.49	11.85	20.31	76.16	128.63	ECQ-E2154KB
	0.18	10.3	5.0	9.7	7.5	1.0	0.5	P10970-ND◆	.41	11.07	19.28	71.40	121.38	ECQ-E2184KB
	0.22	10.3	5.4	10.1	7.5	1.0	0.5	P10971-ND◆	.43	11.49	20.01	74.10	125.97	ECQ-E2224KB
	0.27	10.3	5.9	10.8	7.5	1.0	0.5	P10972-ND◆	.50	13.49	23.49	87.00	147.90	ECQ-E2274KB
	0.33	10.3	6.4	11.3	7.5	1.0	0.5	P10973-ND◆	.55	14.62	25.46	94.30	160.31	ECQ-E2334KB
	0.39	12.3	5.7	10.9	10.0	1.0	0.6	P10974-ND	.59	15.89	27.68	102.50	174.25	ECQ-E2394KB
	0.47	12.3	6.2	11.4	10.0	1.0	0.6	P10975-ND◆	.54	14.48	25.22	93.40	158.78	ECQ-E2474KB
	0.56	12.3	6.7	11.9	10.0	1.0	0.6	P10976-ND◆	.70	18.58	32.37	119.90	203.83	ECQ-E2564KB
	0.68	12.3	7.3	12.7	10.0	1.0	0.6	P10977-ND◆	.63	18.45	31.63	125.21	210.88	ECQ-E2684KB
	0.82	15.3	6.3	13.3	12.5	1.0	0.6	P10978-ND	.70	20.51	35.16	139.18	234.40	ECQ-E2824KB
	1.0	15.3	7.0	14.0	12.5	1.0	0.6	P10979-ND◆	.68	18.17	31.64	117.20	199.24	ECQ-E2105KB
	1.2	15.3	7.6	14.6	12.5	1.0	0.6	P10980-ND◆	.82	24.22	41.52	164.35	276.80	ECQ-E2125KB
	1.5	15.3	8.6	15.7	12.5	1.0	0.6	P10981-ND◆	.93	29.28	50.43	195.21	336.20	ECQ-E2155KB
	1.8	20.8	7.6	14.6	17.5	1.0	0.8	P10982-ND◆	1.02	32.25	55.54	215.01	370.30	ECQ-E2185KB
	2.2	20.8	8.4	15.6	17.5	1.0	0.8	P10983-ND◆	1.00	34.15	59.11	223.30	394.05	ECQ-E2225KB
	2.7	20.8	9.3	16.7	17.5	1.0	0.8	P10984-ND◆	1.13	38.56	66.74	252.11	444.90	ECQ-E2275KB
	3.3	20.8	10.5	17.9	17.5	1.0	0.8	P10985-ND◆	1.36	46.64	80.73	304.98	538.20	ECQ-E2335KB
	3.9	20.8	10.8	19.8	17.5	1.0	0.8	P10986-ND◆	1.97	69.53	121.67	463.52	811.16	ECQ-E2395KB
	4.7	20.8	11.9	21.0	17.5	1.0	0.8	P10987-ND◆	2.19	77.22	135.14	514.80	900.90	ECQ-E2475KB

◆ ***RoHS Compliant***

Panasonic® ECQ-E(F) Series

Miniaturized Metallized Polyester Film Capacitors

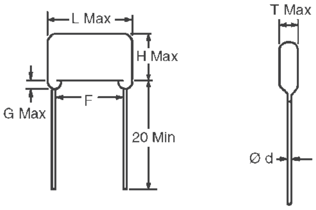

The type ECQ-E(F) series uses a dual side metallized polyester film with high dielectric constant(e) which makes it possible to produce large C-values in small dimensions and is an economical capacitor meeting high requirements for professional circuit design.

Features: • Self-healing property • Flame retardant epoxy resin coating

Applications: • Blocking • Bypassing • Filtering • Timing • Interference suppression • Low pulse applications

Specifications: • Reference standard: JIS C5115, C5151 • Operating temperature range: -40°C ~ 85°C (105°C, 75% of Rated voltage) • Rated voltage: 100V, 250V, 400V, 630V • Capacitance tolerance: ±10% (K) • Dissipation factor: 1.0% max. (20°C 1kHz) • Withstand voltage: Rated voltage DC100V ~ 630V (VDC) X 150% 1 minute between terminals • Insulation resistance: DC100V ~ 630V: C ≤ 0.33μF 9,000MΩ min., C > 0.33μF 3,000ΩVμF min.

Working Voltage (VDC)	Capacitance (μF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	50	100	500	1,000	
100	.01	7.8	4.6	7.7	5.0	1.0	0.5	EF1103-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1103KF
	.012	7.8	4.5	7.6	5.0	1.0	0.5	EF1123-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1123KF
	.015	7.8	4.5	7.6	5.0	1.0	0.5	EF1153-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1153KF
	.018	7.8	4.6	7.7	5.0	1.0	0.5	EF1183-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1183KF
	.022	7.8	4.9	8.0	5.0	1.0	0.5	EF1223-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1223KF
	.027	7.8	4.7	7.8	5.0	1.0	0.5	EF1273-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1273KF
	.033	7.8	4.6	7.7	5.0	1.0	0.5	EF1333-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1333KF
	.039	7.8	4.9	8.0	5.0	1.0	0.5	EF1393-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1393KF
	.047	7.8	4.5	7.5	5.0	1.0	0.5	EF1473-ND	.44	11.89	20.71	76.70	130.39	ECQ-E1473KF
	.056	7.8	4.8	7.9	5.0	1.0	0.5	EF1563-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1563KF
	.068	7.8	4.8	7.9	5.0	1.0	0.5	EF1683-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1683KF
	.082	7.8	4.7	9.9	5.0	1.0	0.5	EF1823-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1823KF
	.1	7.8	5.0	10.0	5.0	1.0	0.5	EF1104-ND◆	.44	11.89	20.71	76.70	130.39	ECQ-E1104KF
	.12	10.3	4.5	7.5	7.5	1.0	0.6	EF1124-ND◆	.47	12.59	21.92	81.20	138.04	ECQ-E1124KF
	.15	10.3	4.5	7.5	7.5	1.0	0.6	EF1154-ND◆	.48	12.77	22.25	82.40	140.08	ECQ-E1154KF
	.18	10.3	4.8	7.9	7.5	1.0	0.6	EF1184-ND	.52	13.83	24.08	89.20	151.64	ECQ-E1184KF
	.22	10.3	5.0	8.0	7.5	1.0	0.6	EF1224-ND◆	.55	14.73	25.65	95.00	161.50	ECQ-E1224KF
	.27	10.3	4.5	12.0	7.5	1.0	0.6	EF1274-ND◆	.60	15.97	27.81	103.00	175.10	ECQ-E1274KF
	.33	10.3	6.0	10.7	7.5	1.0	0.6	EF1334-ND◆	.68	18.09	31.51	116.70	198.39	ECQ-E1334KF
	.39	10.3	6.3	11.0	7.5	1.0	0.6	EF1394-ND◆	.70	18.62	32.43	120.10	204.17	ECQ-E1394KF
	.47	10.3	6.0	12.0	7.5	1.0	0.6	EF1474-ND◆	.73	19.51	33.99	125.90	214.03	ECQ-E1474KF
	.56	12.0	5.5	10.9	10.0	1.0	0.6	EF1564-ND◆	.70	20.51	35.16	139.18	234.40	ECQ-E1564KF
	.68	12.0	6.0	11.9	10.0	1.0	0.6	EF1684-ND◆	.79	23.23	39.82	157.61	265.44	ECQ-E1684KF
	.82	12.0	6.0	13.5	10.0	1.0	0.6	EF1824-ND◆	.78	24.56	42.29	163.71	281.95	ECQ-E1824KF
	1.0	12.0	6.7	14.0	10.0	1.0	0.6	EF1105-ND◆	.85	26.72	46.01	178.11	306.75	ECQ-E1105KF
	1.2	18.5	5.5	12.8	15.0	1.0	0.6	EF1125-ND◆	.98	30.89	53.20	205.92	354.64	ECQ-E1125KF
	1.5	18.5	6.0	13.4	15.0	1.0	0.8	EF1155-ND◆	1.01	34.66	59.99	226.61	399.90	ECQ-E1155KF
	1.8	18.5	6.5	14.4	15.0	1.0	0.8	EF1185-ND◆	1.13	38.52	66.67	251.86	444.45	ECQ-E1185KF
	2.2	18.5	7.0	15.0	15.0	1.0	0.8	EF1225-ND◆	1.27	43.58	75.42	284.92	502.80	ECQ-E1225KF
	2.7	18.5	8.0	15.8	15.0	1.0	0.8	EF1275-ND◆	1.45	49.69	86.00	324.87	573.30	ECQ-E1275KF
	3.3	18.5	8.5	16.5	15.0	1.0	0.8	EF1335-ND◆	1.84	63.06	109.15	412.34	727.65	ECQ-E1335KF
	3.9	26.0	7.0	16.4	22.5	1.0	0.8	EF1395-ND◆	1.88	66.18	115.82	441.20	772.10	ECQ-E1395KF
	4.7	26.0	7.5	17.0	22.5	1.0	0.8	EF1475-ND◆	2.12	74.69	130.70	497.92	871.36	ECQ-E1475KF
	5.6	26.0	8.3	17.5	22.5	1.0	0.8	EF1565-ND	2.51	88.69	155.21	591.28	1034.74	ECQ-E1565KF
	6.8	26.0	9.0	18.5	22.5	1.0	0.8	EF1685-ND◆	2.86	100.78	176.36	671.84	1175.72	ECQ-E1685KF
	8.2	26.0	10.0	20.0	22.5	1.5	0.8	EF1825-ND◆	3.29	116.16	203.28	774.40	1355.20	ECQ-E1825KF
	10.0	26.0	11.5	21.0	22.5	1.5	0.8	EF1106-ND◆	3.49	121.03	219.55	816.28	1519.97	ECQ-E1106KF
250	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF2103-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF2123-ND	.32	7.68	13.17	49.39	83.41	ECQ-E2123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF2153-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF2183-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2183KF
	.022	10.3	4.4	7.5	7.5	1.0	0.6	EF2223-ND	.32	7.68	13.17	49.39	83.41	ECQ-E2223KF
	.027	10.3	4.4	7.5	7.5	1.0	0.6	EF2273-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2273KF
	.033	10.3	4.5	7.5	7.5	1.0	0.6	EF2333-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2333KF
	.039	10.3	4.5	7.5	7.5	1.0	0.6	EF2393-ND	.32	7.68	13.17	49.39	83.41	ECQ-E2393KF
	.047	10.3	4.5	7.5	7.5	1.0	0.6	EF2473-ND◆	.32	7.68	13.17	49.39	83.41	ECQ-E2473KF
	.056	10.3	4.8	7.9	7.5	1.0	0.6	EF2563-ND◆	.37	9.00	15.42	57.83	97.66	ECQ-E2563KF
	.068	10.3	4.5	7.5	7.5	1.0	0.6	EF2683-ND◆	.40	9.66	16.56	62.10	104.88	ECQ-E2683KF
	.082	10.3	4.9	8.0	7.5	1.0	0.6	EF2823-ND	.34	8.35	14.31	53.66	90.63	ECQ-E2823KF
	.1	10.3	5.8	8.4	7.5	1.0	0.6	EF2104-ND◆	.34	8.35	14.31	53.66	90.63	ECQ-E2104KF
	.12	10.3	6.0	9.0	7.5	1.0	0.6	EF2124-ND◆	.40	9.82	16.83	63.11	106.59	ECQ-E2124KF

◆ ***RoHS Compliant***

(Continued)

Panasonic ECQ-E(F) Series Miniaturized Metallized Polyester Film Capacitors *(Cont.)*

Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	50	100	500	1,000	
250	.15	10.3	6.0	10.8	7.5	1.0	0.6	EF2154-ND◆	.42	10.10	17.31	64.91	109.63	ECQ-E2154KF
	.18	12.0	5.0	10.3	10.0	1.0	0.6	EF2184-ND	.42	11.16	19.44	72.00	122.40	ECQ-E2184KF
	.22	12.0	5.5	10.5	10.0	1.0	0.6	EF2224-ND◆	.43	11.59	20.20	74.80	127.16	ECQ-E2224KF
	.27	12.0	6.0	11.5	10.0	1.0	0.6	EF2274-ND◆	.47	12.60	21.95	81.30	138.21	ECQ-E2274KF
	.33	12.0	6.5	12.0	10.0	1.0	0.6	EF2334-ND◆	.49	13.05	22.73	84.20	143.14	ECQ-E2334KF
	.39	18.5	4.9	12.0	15.0	1.0	0.6	EF2394-ND	.62	16.66	29.03	107.50	182.75	ECQ-E2394KF
	.47	18.5	5.3	12.5	15.0	1.0	0.6	EF2474-ND◆	.60	16.01	27.89	103.30	175.61	ECQ-E2474KF
	.56	18.5	5.5	13.0	15.0	1.0	0.6	EF2564-ND◆	.64	17.10	29.78	110.30	187.51	ECQ-E2564KF
	.68	18.5	6.0	13.5	15.0	1.0	0.8	EF2684-ND◆	.65	17.39	30.29	112.20	190.74	ECQ-E2684KF
	.82	18.5	6.5	14.5	15.0	1.0	0.8	EF2824-ND◆	.68	18.12	31.56	116.90	198.73	ECQ-E2824KF
	1.0	18.5	7.4	15.0	15.0	1.0	0.8	EF2105-ND◆	.68	18.07	31.48	116.60	198.22	ECQ-E2105KF
	1.2	18.5	8.0	15.9	15.0	1.0	0.8	EF2125-ND◆	.71	20.94	35.90	142.12	239.36	ECQ-E2125KF
	1.5	18.5	9.0	16.8	15.0	1.0	0.8	EF2155-ND◆	.77	22.69	38.90	154.00	259.36	ECQ-E2155KF
	1.8	26.0	7.5	15.5	22.5	1.0	0.8	EF2185-ND◆	.92	29.04	50.01	193.59	333.41	ECQ-E2185KF
	2.2	26.0	8.5	16.3	22.5	1.0	0.8	EF2225-ND◆	.85	26.82	46.20	178.83	307.99	ECQ-E2225KF
	2.7	26.0	9.4	17.0	22.5	1.0	0.8	EF2275-ND◆	1.00	34.28	59.33	224.15	395.55	ECQ-E2275KF
	3.3	26.0	10.3	18.0	22.5	1.5	0.8	EF2335-ND◆	.98	33.49	57.96	218.96	386.40	ECQ-E2335KF
	3.9	26.0	11.0	20.5	22.5	1.5	0.8	EF2395-ND◆	1.11	37.92	65.63	247.95	437.55	ECQ-E2395KF
	4.7	26.0	12.0	21.5	22.5	1.5	0.8	EF2475-ND◆	1.18	40.42	69.95	264.27	466.35	ECQ-E2475KF
	5.6	31.0	11.8	21.0	27.5	1.5	0.8	EF2565-ND◆	1.90	67.21	117.62	448.08	784.14	ECQ-E2565KF
	6.8	31.0	13.0	22.4	27.5	1.5	0.8	EF2685-ND◆	2.03	71.47	125.08	476.48	833.84	ECQ-E2685KF
	8.2	31.0	14.3	23.5	27.5	1.5	0.8	EF2825-ND◆	2.19	77.20	135.09	514.64	900.62	ECQ-E2825KF
	10.0	31.0	15.9	25.8	27.5	1.5	0.8	EF2106-ND◆	3.44	119.12	216.08	803.37	1495.94	ECQ-E2106KF
400	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF4103-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF4123-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF4153-ND	.36	8.65	14.82	55.58	93.86	ECQ-E4153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF4183-ND	.36	8.65	14.82	55.58	93.86	ECQ-E4183KF
	.022	10.3	4.8	7.9	7.5	1.0	0.6	EF4223-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4223KF
	.027	10.3	5.5	8.0	7.5	1.0	0.6	EF4273-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4273KF
	.033	10.3	6.0	9.0	7.5	1.0	0.6	EF4333-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4333KF
	.039	12.0	4.9	8.0	10.0	1.0	0.6	EF4393-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4393KF
	.047	12.0	5.0	8.3	10.0	1.0	0.6	EF4473-ND◆	.36	8.65	14.82	55.58	93.86	ECQ-E4473KF
	.056	12.0	5.0	10.0	10.0	1.0	0.6	EF4563-ND◆	.53	14.04	24.46	90.60	154.02	ECQ-E4563KF
	.068	12.0	5.4	10.5	10.0	1.0	0.6	EF4683-ND	.59	15.89	27.68	102.50	174.25	ECQ-E4683KF
	.082	12.0	5.8	11.0	10.0	1.0	0.6	EF4823-ND	.55	14.62	25.46	94.30	160.31	ECQ-E4823KF
	.1	12.0	6.3	12.0	10.0	1.0	0.6	EF4104-ND◆	.37	8.98	15.39	57.71	97.47	ECQ-E4104KF
	.12	18.5	5.0	10.0	15.0	1.0	0.6	EF4124-ND◆	.65	17.31	30.16	111.70	189.89	ECQ-E4124KF
	.15	18.5	5.0	12.4	15.0	1.0	0.6	EF4154-ND◆	.64	17.19	29.94	110.90	188.53	ECQ-E4154KF
	.18	18.5	5.4	12.5	15.0	1.0	0.6	EF4184-ND◆	.71	19.02	33.13	122.70	208.59	ECQ-E4184KF
	.22	18.5	5.9	13.0	15.0	1.0	0.6	EF4224-ND◆	.66	19.32	33.12	131.10	220.80	ECQ-E4224KF
	.27	18.5	6.5	14.3	15.0	1.0	0.8	EF4274-ND◆	.69	20.24	34.70	137.37	231.36	ECQ-E4274KF
	.33	18.5	7.0	14.9	15.0	1.0	0.8	EF4334-ND◆	.71	21.00	36.00	142.50	240.00	ECQ-E4334KF
	.39	18.5	7.5	15.4	15.0	1.0	0.8	EF4394-ND◆	.80	23.70	40.63	160.84	270.88	ECQ-E4394KF
	.47	18.5	7.8	17.0	15.0	1.0	0.8	EF4474-ND◆	.79	24.95	42.97	166.32	286.44	ECQ-E4474KF
	.56	26.0	6.5	16.0	22.5	1.0	0.8	EF4564-ND◆	.90	28.42	48.94	189.45	326.28	ECQ-E4564KF
	.68	26.0	7.0	16.5	22.5	1.0	0.8	EF4684-ND◆	.77	22.82	39.12	154.85	260.80	ECQ-E4684KF
	.82	26.0	7.9	17.3	22.5	1.0	0.8	EF4824-ND◆	1.04	32.75	56.40	218.34	376.03	ECQ-E4824KF
	1.0	26.0	8.5	18.9	22.5	1.0	0.8	EF4105-ND◆	.95	32.50	56.25	212.50	375.00	ECQ-E4105KF
	1.2	26.0	9.5	18.9	22.5	1.0	0.8	EF4125-ND◆	1.43	48.79	84.44	319.01	562.95	ECQ-E4125KF
	1.5	31.0	9.5	19.0	27.5	1.0	0.8	EF4155-ND◆	1.60	54.86	94.95	358.70	633.00	ECQ-E4155KF
	1.8	31.0	11.0	20.5	27.5	1.5	0.8	EF4185-ND◆	1.09	37.13	64.26	242.76	428.40	ECQ-E4185KF
	2.2	31.0	11.0	22.0	27.5	1.5	0.8	EF4225-ND◆	1.73	60.96	106.68	406.40	711.20	ECQ-E4225KF
630	.01	12.0	4.5	7.5	10.0	1.0	0.6	EF6103-ND◆	.41	9.89	16.95	63.56	107.35	ECQ-E6103KF
	.012	12.0	4.5	7.8	10.0	1.0	0.6	EF6123-ND	.41	10.91	19.01	70.40	119.68	ECQ-E6123KF
	.015	12.0	5.0	8.2	10.0	1.0	0.6	EF6153-ND	.43	11.52	20.06	74.30	126.31	ECQ-E6153KF
	.018	12.0	4.9	10.0	10.0	1.0	0.6	EF6183-ND◆	.46	12.40	21.60	80.00	136.00	ECQ-E6183KF
	.022	12.0	5.3	10.5	10.0	1.0	0.6	EF6223-ND◆	.45	12.00	20.90	77.40	131.58	ECQ-E6223KF
	.027	12.0	5.5	10.9	10.0	1.0	0.6	EF6273-ND	.48	12.80	22.30	82.60	140.42	ECQ-E6273KF
	.033	12.0	6.0	11.9	10.0	1.0	0.6	EF6333-ND◆	.48	12.80	22.30	82.60	140.42	ECQ-E6333KF
	.039	12.0	6.0	13.4	10.0	1.0	0.6	EF6393-ND◆	.49	13.07	22.76	84.30	143.31	ECQ-E6393KF
	.047	12.0	6.5	13.5	10.0	1.0	0.6	EF6473-ND◆	.46	12.38	21.57	79.90	135.83	ECQ-E6473KF
	.056	18.5	5.4	10.5	15.0	1.0	0.6	EF6563-ND◆	.54	14.55	25.35	93.90	159.63	ECQ-E6563KF
	.068	18.5	5.8	11.0	15.0	1.0	0.6	EF6683-ND	.57	15.21	26.49	98.10	166.77	ECQ-E6683KF
	.082	18.5	6.5	12.0	15.0	1.0	0.6	EF6823-ND◆	.58	15.50	27.00	100.00	170.00	ECQ-E6823KF
	.1	18.5	6.3	14.0	15.0	1.0	0.6	EF6104-ND◆	.63	16.71	29.11	107.80	183.26	ECQ-E6104KF
	.12	18.5	6.3	14.5	15.0	1.0	0.8	EF6124-ND	.65	17.39	30.29	112.20	190.74	ECQ-E6124KF
	.15	18.5	7.5	15.4	15.0	1.0	0.8	EF6154-ND◆	.66	17.61	30.67	113.60	193.12	ECQ-E6154KF
	.18	18.5	8.0	16.0	15.0	1.0	0.8	EF6184-ND◆	.77	22.76	39.02	154.47	260.16	ECQ-E6184KF
	.22	18.5	9.0	16.5	15.0	1.0	0.8	EF6224-ND◆	.79	23.42	40.15	158.94	267.68	ECQ-E6224KF
	.27	26.0	7.0	16.5	22.5	1.0	0.8	EF6274-ND◆	.85	24.96	42.79	169.39	285.28	ECQ-E6274KF
	.33	26.0	7.8	17.0	22.5	1.0	0.8	EF6334-ND◆	.84	24.72	42.38	167.77	282.56	ECQ-E6334KF
	.39	26.0	8.5	17.9	22.5	1.0	0.8	EF6394-ND◆	.97	30.75	52.96	205.02	353.09	ECQ-E6394KF
	.47	26.0	9.3	18.5	22.5	1.0	0.8	EF6474-ND◆	1.04	32.91	56.68	219.42	377.89	ECQ-E6474KF
	.56	26.0	10.0	20.0	22.5	1.5	0.8	EF6564-ND◆	1.02	35.05	60.66	229.16	404.40	ECQ-E6564KF
	.68	26.0	11.5	21.0	22.5	1.5	0.8	EF6684-ND◆	1.05	35.97	62.26	235.20	415.05	ECQ-E6684KF
	.82	31.0	11.3	20.5	27.5	1.5	0.8	EF6824-ND◆	1.58	53.92	93.33	352.58	622.20	ECQ-E6824KF
	1.0	31.0	12.5	21.9	27.5	1.5	0.8	EF6105-ND◆	1.57	53.56	92.70	350.20	618.00	ECQ-E6105KF
	1.2	31.0	13.5	23.0	27.5	1.5	0.8	EF6125-ND◆	1.67	57.08	98.80	373.24	658.65	ECQ-E6125KF
	1.5	31.0	15.3	24.7	27.5	1.5	0.8	EF6155-ND◆	1.84	63.09	109.19	412.51	727.95	ECQ-E6155KF
	1.8	31.0	16.8	27.0	27.5	1.5	0.8	EF6185-ND◆	1.88	66.47	116.32	443.12	775.46	ECQ-E6185KF
	2.2	31.0	19.5	29.0	27.5	1.5	0.8	EF6225-ND◆	2.79	98.39	172.18	655.92	1147.86	ECQ-E6225KF

◆ ***RoHS Compliant***

Panasonic ECQ-E(H) Series Metallized Polyester Film Capacitors

The ECQ-E(H) series has a non-inductive construction using a metallized Polyester film with a flame retardant epoxy resin coating for an active filter.

Features: • Smaller size • Self-healing property • Excellent electrical characteristics • Flame retardant epoxy resin coating

Application: Active filter circuit

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Rated Voltage: 450VDC (Derating of rated voltage by 1.25%/°C at more than 85°C) • Capacitance Tolerance: ±10% • Dissipation Factor (tanδ): tanδ ≤ 1.0% (20°C, 1kHz) • Withstand Voltage: Between terminals: Rated (450VDC) X 150% 60 seconds. Between terminal to enclosure: Rated voltage (450VDC) X 200% 1 second to 5 seconds • Insulation Resistance (IR): IR ≥ 3000 MΩ (20°C, 100VDC, 60 seconds)

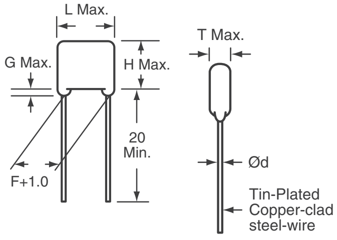

Voltage (VDC)	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each					Panasonic Part No.
		L	T	H	F	G	ød		1	50	100	500	1,000	
450	0.47	12.7	7.7	16.0	10.0	1.0	0.6	E6825-ND	1.05	.67	.58	.45	.39	ECQ-E2W474KH
	0.68	18.2	6.9	15.3	15.0	1.0	0.8	E6826-ND	1.00	.69	.59	.45	.40	ECQ-E2W684KH
	1.0	18.2	8.5	16.9	15.0	1.0	0.8	E6827-ND	1.24	.85	.74	.56	.49	ECQ-E2W105KH
	1.5	25.7	8.2	16.2	22.5	1.0	0.8	E6828-ND	1.82	1.29	1.13	.86	.75	ECQ-E2W155KH
	2.2	25.7	9.4	19.7	22.5	1.0	0.8	E6829-ND	2.19	1.55	1.36	1.03	.91	ECQ-E2W225KH

NEW! XK Series Metallized Polyester Film Capacitor

The XK Series capacitors are: • Highly reliable and have superior performance at high frequency applications, self-healing and non-inductive construction, using a dielectric made of polyethylene terephthalate film covered with vacuum-evaporated metal • Large capacitance in small dimensions • Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, which provides excellent humidity resistance • Designed 1mm maximum of epoxy on lead wire for best performance at soldering process on P.C. board assemblies

Applications: General electronic and communications equipment

Specifications: • Temperature Range: -40 to 105° C • Rated Voltage: 250, 400, 630VDC • Capacitance Tolerance: ±5% (J), ±10% (K) • Insulation Resistance: C ≤ 0.33μF : 9000 MΩ or more, C > 0.33μF : 3000 ΩF or more • Withstand Voltage: Between Terminals - Rated Voltage x 175%, 1 to 5 seconds / Between Terminal and Coverage - Rated Voltage x 200%, 1 to 5 seconds • Encapsulation: Flame retardant epoxy resin

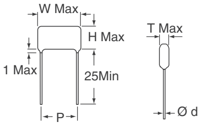

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
250	0.01	4.4	11.0	7.6	0.6	7.5	493-3509-ND	.64	.46	.30	QXK2E103KTP
	0.015	5.0	11.0	8.2	0.6	7.5	493-3510-ND	.66	.47	.31	QXK2E153KTP
	0.022	4.4	11.0	8.0	0.6	7.5	493-3511-ND	.66	.47	.31	QXK2E223KTP
	0.033	4.4	11.0	8.0	0.6	7.5	493-3512-ND	.66	.47	.31	QXK2E333KTP
	0.047	4.0	11.0	7.6	0.6	7.5	493-3513-ND	.66	.47	.31	QXK2E473KTP
	0.068	4.7	11.0	8.2	0.6	7.5	493-3514-ND	.66	.47	.31	QXK2E683KTP
	0.1	5.2	11.0	8.9	0.6	7.5	493-3515-ND	.62	.46	.32	QXK2E104KTP
	0.15	6.1	11.0	9.8	0.6	7.5	493-3516-ND	.69	.51	.35	QXK2E154KTP
	0.22	5.9	13.5	10.5	0.6	10.0	493-3517-ND	.76	.57	.39	QXK2E224KTP
	0.33	6.7	13.5	11.9	0.6	10.0	493-3518-ND	.83	.63	.45	QXK2E334KTP
	0.47	5.5	18.5	12.3	0.6	15.0	493-3519-ND	.93	.71	.51	QXK2E474KTP
	0.68	6.0	18.5	14.3	0.6	15.0	493-3520-ND	1.07	.85	.64	QXK2E684KTP
	1.0	7.1	18.5	15.5	0.6	15.0	493-3521-ND	1.37	1.08	.81	QXK2E105KTP
	1.5	9.9	18.5	15.1	0.6	15.0	493-3522-ND	1.70	1.38	1.05	QXK2E155KTP
	2.2	8.1	25.5	16.5	0.8	22.5	493-3523-ND	2.25	1.83	1.40	QXK2E225KTP
	3.3	10.0	25.5	18.3	0.8	22.5	493-3524-ND	2.64	2.14	1.64	QXK2E335KTP
	4.7	12.0	25.5	20.3	0.8	22.5	493-3525-ND	3.09	2.51	1.92	QXK2E475KTP
	6.8	12.7	30.5	21.3	0.8	27.5	493-3526-ND	3.22	2.60	2.03	QXK2E685KTP
	10.0	15.6	30.5	24.2	0.8	27.5	493-3527-ND	3.62	2.93	2.28	QXK2E106KTP
400	0.01	4.4	11.0	7.6	0.6	7.5	493-3528-ND	.64	.46	.30	QXK2G103KTP
	0.015	5.0	11.0	8.2	0.6	7.5	493-3529-ND	.66	.47	.31	QXK2G153KTP
	0.022	4.3	11.0	7.9	0.6	7.5	493-3530-ND	.66	.47	.31	QXK2G223KTP
	0.033	4.9	11.0	8.6	0.6	7.5	493-3531-ND	.66	.47	.31	QXK2G333KTP
	0.047	4.7	13.5	9.3	0.6	10.0	493-3532-ND	.73	.52	.34	QXK2G473KTP
	0.068	5.4	13.5	10.0	0.6	10.0	493-3533-ND	.69	.51	.35	QXK2G683KTP

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
400	0.1	6.1	13.5	11.2	0.6	10.0	493-3534-ND	.75	.55	.38	QXK2G104KTP
	0.15	5.1	18.5	11.9	0.6	15.0	493-3535-ND	.80	.61	.44	QXK2G154KTP
	0.22	5.9	18.5	12.7	0.6	15.0	493-3536-ND	.93	.71	.51	QXK2G224KTP
	0.33	7.6	18.5	12.8	0.6	15.0	493-3537-ND	1.03	.82	.61	QXK2G334KTP
	0.47	8.3	18.5	15.1	0.6	15.0	493-3538-ND	1.32	1.05	.79	QXK2G474KTP
	0.68	7.2	25.5	15.6	0.8	22.5	493-3539-ND	1.74	1.38	1.04	QXK2G684KTP
	1.0	8.7	25.5	17.1	0.8	22.5	493-3540-ND	2.16	1.75	1.34	QXK2G105KTP
	1.5	9.4	30.5	18.0	0.8	27.5	493-3541-ND	2.58	2.09	1.60	QXK2G155KTP
	2.2	11.5	30.5	20.0	0.8	27.5	493-3542-ND	3.00	2.43	1.86	QXK2G225KTP
630	0.01	4.4	13.5	9.0	0.6	10.0	493-3543-ND	.64	.46	.30	QXK2J103KTP
	0.015	4.7	13.5	9.3	0.6	10.0	493-3544-ND	.66	.47	.31	QXK2J153KTP
	0.022	5.1	13.5	10.3	0.6	10.0	493-3545-ND	.73	.52	.34	QXK2J223KTP
	0.033	5.9	13.5	11.1	0.6	10.0	493-3546-ND	.65	.48	.33	QXK2J333KTP
	0.047	6.4	13.5	13.2	0.6	10.0	493-3547-ND	.67	.49	.34	QXK2J473KTP
	0.068	5.8	18.5	11.0	0.6	15.0	493-3548-ND	.76	.57	.39	QXK2J683KTP
	0.1	6.4	18.5	13.2	0.6	15.0	493-3549-ND	.80	.61	.44	QXK2J104KTP
	0.15	7.1	18.5	15.4	0.6	15.0	493-3550-ND	.96	.74	.53	QXK2J154KTP
	0.22	9.6	18.5	14.8	0.6	15.0	493-3551-ND	1.11	.88	.66	QXK2J224KTP
	0.33	7.9	25.5	16.2	0.8	22.5	493-3552-ND	1.47	1.17	.88	QXK2J334KTP
	0.47	9.4	25.5	17.7	0.8	22.5	493-3553-ND	1.73	1.41	1.08	QXK2J474KTP
	0.68	11.3	25.5	19.6	0.8	22.5	493-3554-ND	2.34	1.90	1.45	QXK2J684KTP
	1.0	12.0	30.5	20.5	0.8	27.5	493-3555-ND	2.78	2.25	1.72	QXK2J105KTP
	1.5	14.8	30.5	23.3	0.8	27.5	493-3556-ND	3.22	2.61	1.99	QXK2J155KTP
	2.2	18.5	30.5	27.5	0.8	27.5	493-3557-ND	3.56	2.87	2.24	QXK2J225KTP

NEW! XT Series Metallized Polypropylene Film Capacitor

The XT Series capacitors are: • Ideal for high frequency applications due to a metallized polypropylene film dielectric which exhibits superior operative characteristics with minimal loss at high frequency • Electrode has minimal inductance because of non-inductive construction • Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, which gives superior characteristics against moisture

Applications: High frequency and large current circuit applications

Specifications: • Temperature Range: -40 to 105°C • Rated Voltage: 400VDC and 630VDC • Capacitance Tolerance: ±10% (K) • Insulation Resistance: C ≤ 0.33μF 30000 MΩ or more, C > 0.33μF 10000 ΩF or more • Withstand Voltage: Between Terminals - Rated voltage x 175% and 200%, 1 to 5 seconds • Encapsulation: Flame retardant epoxy resin

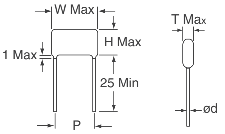

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
400	0.01	5.4	19	12.9	0.8	15	493-3593-ND	1.02	.78	.56	QXT2G103KRPT
	0.015	6.1	19	13.6	0.8	15	493-3594-ND	1.06	.81	.58	QXT2G153KRPT
	0.022	7.0	19	14.5	0.8	15	493-3595-ND	1.00	.80	.60	QXT2G223KRPT
	0.033	8.2	19	15.7	0.8	15	493-3596-ND	1.25	.99	.74	QXT2G333KRPT
	0.047	9.6	19	17.1	0.8	15	493-3597-ND	1.33	1.06	.79	QXT2G473KRPT
	0.068	7.8	24	17.7	0.8	20	493-3598-ND	1.52	1.20	.90	QXT2G683KRPT
	0.1	9.3	24	19.1	0.8	20	493-3599-ND	1.82	1.44	1.08	QXT2G104KRPT

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
630	0.0068	6.0	19	13.5	0.8	15	493-3600-ND	1.06	.81	.58	QXT2J682KRPT
	0.01	6.8	19	14.3	0.8	15	493-3601-ND	.97	.77	.58	QXT2J103KRPT
	0.015	7.9	19	15.4	0.8	15	493-3602-ND	1.21	.96	.72	QXT2J153KRPT
	0.022	9.3	19	16.8	0.8	15	493-3603-ND	1.46	1.15	.87	QXT2J223KRPT
	0.033	7.7	24	17.6	0.8	20	493-3604-ND	1.49	1.18	.89	QXT2J333KRPT
	0.047	10.5	24	20.3	0.8	20	493-3605-ND	1.82	1.44	1.08	QXT2J473KRPT
	0.068	12.5	24	22.3	0.8	20	493-3606-ND	1.96	1.59	1.21	QXT2J683KRPT

NEW! YX Foil Polyester Film Capacitor

The YX Series film capacitors are: • Inductive constructed, using a dielectric of polyester film together with aluminum foil • Coated with epoxy resin for superior heat resistance, humidity resistance and solvent resistance • Suited for use in commercial and industrial applications • Available for automatic insertion systems

Specifications:

• Temperature: -40 to 85°C • Rated Voltage: 50VDC and 100VDC • Capacitance Tolerance: ±5% (J) and ±10% (K) • Insulation Resistance: 30,000 MΩ or more • Withstand Voltage: Between Terminals - Rated Voltage x 250%, 1 to 5 seconds / Between Terminals and Coverage - Rated Voltage x 200%, 1 to 5 seconds

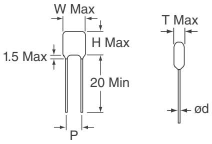

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Pricing			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
50	0.001	2.5	5.0	7.0	0.5	3.5	493-3377-ND	.28	1.92	10.88	QYX1H102KTP
	0.0012	2.5	5.0	7.0	0.5	3.5	493-3378-ND	.28	1.92	10.88	QYX1H122KTP
	0.0015	2.5	5.0	7.0	0.5	3.5	493-3379-ND	.28	1.92	10.88	QYX1H152KTP
	0.0018	2.5	5.5	7.0	0.5	3.5	493-3380-ND	.28	1.92	10.88	QYX1H182KTP
	0.0022	3.0	5.5	7.0	0.5	3.5	493-3381-ND	.28	1.92	10.88	QYX1H222KTP
	0.0027	3.0	5.5	7.0	0.5	3.5	493-3382-ND	.28	1.92	10.88	QYX1H272KTP
	0.0033	3.0	5.5	7.0	0.5	3.5	493-3383-ND	.28	1.92	10.88	QYX1H332KTP
	0.0039	3.0	5.5	7.0	0.5	3.5	493-3384-ND	.28	1.92	10.88	QYX1H392KTP
	0.0047	3.0	6.0	7.0	0.5	3.5	493-3385-ND	.28	1.92	10.88	QYX1H472KTP
	0.0056	3.0	6.0	7.0	0.5	3.5	493-3386-ND	.28	1.92	10.88	QYX1H562KTP
	0.0068	3.0	6.0	7.0	0.5	3.5	493-3387-ND	.28	1.92	10.88	QYX1H682KTP
	0.0082	3.0	6.0	7.0	0.5	3.5	493-3388-ND	.28	1.92	10.88	QYX1H822KTP
	0.01	3.0	6.0	7.0	0.5	3.5	493-3389-ND	.30	2.04	11.56	QYX1H103KTP
	0.012	3.5	6.0	7.0	0.5	3.5	493-3390-ND	.30	2.04	11.56	QYX1H123KTP
	0.015	3.5	6.0	8.5	0.5	3.5	493-3391-ND	.31	2.10	11.90	QYX1H153KTP
	0.018	3.5	6.5	8.5	0.5	3.5	493-3392-ND	.31	2.10	11.90	QYX1H183KTP
	0.022	3.5	6.5	9.0	0.5	3.5	493-3393-ND	.33	2.28	12.92	QYX1H223KTP
	0.027	3.5	6.5	9.0	0.5	3.5	493-3394-ND	.33	2.28	12.92	QYX1H273KTP
	0.033	4.0	7.0	9.0	0.5	3.5	493-3395-ND	.32	2.20	13.20	QYX1H333KTP
	0.039	4.0	7.0	9.0	0.5	3.5	493-3396-ND	.32	2.20	13.20	QYX1H393KTP
	0.047	4.5	7.5	9.5	0.5	5.0	493-3397-ND	.35	2.45	14.70	QYX1H473KTP
	0.056	4.5	7.5	9.5	0.5	5.0	493-3398-ND	.35	2.45	14.70	QYX1H563KTP
	0.068	4.5	8.0	9.5	0.5	5.0	493-3399-ND	.45	3.10	18.60	QYX1H683KTP
	0.082	4.5	8.0	9.5	0.5	5.0	493-3400-ND	.45	3.10	18.60	QYX1H823KTP
	0.1	5.5	9.0	10.5	0.5	5.0	493-3401-ND	.42	2.95	19.44	QYX1H104KTP
	0.12	5.5	9.0	10.5	0.5	5.0	493-3402-ND	.42	2.95	19.44	QYX1H124KTP
	0.15	6.0	10.0	12.0	0.5	5.0	493-3403-ND	.53	3.77	24.84	QYX1H154KTP
	0.18	6.0	10.5	12.0	0.5	5.0	493-3404-ND	.53	3.77	24.84	QYX1H184KTP

Voltage (VDC)	Cap. (μF)	Dimensions (mm)					Digi-Key Part No.	Pricing			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
50	0.22	6.0	11.0	12.0	0.5	7.5	493-3405-ND	.68	4.80	31.59	QYX1H224KTP
	0.27	7.5	12.5	14.5	0.6	7.5	493-3406-ND	.68	4.80	31.59	QYX1H274KTP
	0.33	7.5	12.5	14.5	0.6	7.5	493-3407-ND	.79	5.85	40.08	QYX1H334KTP
	0.39	9.5	14.0	15.0	0.6	7.5	493-3408-ND	.79	5.85	40.08	QYX1H394KTP
	0.47	9.5	14.0	15.0	0.6	7.5	493-3409-ND	.86	6.50	46.50	QYX1H474KTP
	0.001	2.5	5.0	7.0	0.5	3.5	493-3443-ND	.30	2.04	11.56	QYX1H102JTP
	0.0012	2.5	5.0	7.0	0.5	3.5	493-3444-ND	.30	2.04	11.56	QYX1H122JTP
	0.0015	2.5	5.0	7.0	0.5	3.5	493-3445-ND	.30	2.04	11.56	QYX1H152JTP
	0.0018	2.5	5.5	7.0	0.5	3.5	493-3446-ND	.30	2.04	11.56	QYX1H182JTP
	0.0022	3.0	5.5	7.0	0.5	3.5	493-3447-ND	.30	2.04	11.56	QYX1H222JTP
	0.0027	3.0	5.5	7.0	0.5	3.5	493-3448-ND	.30	2.04	11.56	QYX1H272JTP
	0.0033	3.0	5.5	7.0	0.5	3.5	493-3449-ND	.31	2.10	11.90	QYX1H332JTP
	0.0039	3.0	5.5	7.0	0.5	3.5	493-3450-ND	.31	2.10	11.90	QYX1H392JTP
	0.0047	3.0	6.0	7.0	0.5	3.5	493-3451-ND	.31	2.10	11.90	QYX1H472JTP
	0.0056	3.0	6.0	7.0	0.5	3.5	493-3452-ND	.31	2.10	11.90	QYX1H562JTP
	0.0068	3.0	6.0	7.0	0.5	3.5	493-3453-ND	.31	2.10	11.90	QYX1H682JTP
	0.0082	3.0	6.0	7.0	0.5	3.5	493-3454-ND	.31	2.10	11.90	QYX1H822JTP
	0.01	3.0	6.0	7.0	0.5	3.5	493-3455-ND	.32	2.16	12.24	QYX1H103JTP
	0.012	3.5	6.0	7.0	0.5	3.5	493-3456-ND	.32	2.16	12.24	QYX1H123JTP
	0.015	3.5	6.0	8.5	0.5	3.5	493-3457-ND	.33	2.28	12.92	QYX1H153JTP
	0.018	3.5	6.5	8.5	0.5	3.5	493-3458-ND	.33	2.28	12.92	QYX1H183JTP
	0.022	3.5	6.5	9.0	0.5	3.5	493-3459-ND	.30	2.05	12.30	QYX1H223JTP
	0.027	3.5	6.5	9.0	0.5	3.5	493-3460-ND	.30	2.05	12.30	QYX1H273JTP
	0.033	4.0	7.0	9.0	0.5	3.5	493-3461-ND	.32	2.25	13.50	QYX1H333JTP
	0.039	4.0	7.0	9.0	0.5	3.5	493-3462-ND	.32	2.25	13.50	QYX1H393JTP
	0.047	4.5	7.5	9.5	0.5	5.0	493-3463-ND	.37	2.55	15.30	QYX1H473JTP
	0.056	4.5	7.5	9.5	0.5	5.0	493-3464-ND	.37	2.55	15.30	QYX1H563JTP

(Continued)

NEW! YX Foil Polyester Film Capacitor *(Cont.)*

Voltage (VDC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Pricing			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
50	0.068	4.5	8.0	9.5	0.5	5.0	493-3465-ND	.46	3.20	19.20	QYX1H683JTP
	0.082	4.5	8.0	9.5	0.5	5.0	493-3466-ND	.46	3.20	19.20	QYX1H823JTP
	0.1	5.5	9.0	10.5	0.5	5.0	493-3467-ND	.42	2.95	19.44	QYX1H104JTP
	0.12	5.5	9.0	10.5	0.5	5.0	493-3468-ND	.42	2.95	19.44	QYX1H124JTP
	0.15	6.0	10.0	12.0	0.5	5.0	493-3469-ND	.51	3.61	23.76	QYX1H154JTP
	0.18	6.0	10.5	12.0	0.5	5.0	493-3470-ND	.51	3.61	23.76	QYX1H184JTP
	0.22	6.0	11.0	12.0	0.5	7.5	493-3471-ND	.64	4.51	29.70	QYX1H224JTP
	0.27	7.5	12.5	14.5	0.6	7.5	493-3472-ND	.64	4.51	29.70	QYX1H274JTP
	0.33	7.5	12.5	14.5	0.6	7.5	493-3473-ND	.74	5.43	37.20	QYX1H334JTP
	0.39	9.5	14.0	15.0	0.6	7.5	493-3474-ND	.74	5.43	37.20	QYX1H394JTP
	0.47	9.5	14.0	15.0	0.6	7.5	493-3475-ND	.78	5.95	42.55	QYX1H474JTP
100	0.001	2.8	5.5	10.0	0.5	3.5	493-3410-ND	.28	1.92	10.88	QYX2A102KTP
	0.0012	2.8	5.5	10.5	0.5	3.5	493-3411-ND	.28	1.92	10.88	QYX2A122KTP
	0.0015	2.8	5.5	10.5	0.5	3.5	493-3412-ND	.28	1.92	10.88	QYX2A152KTP
	0.0018	2.8	5.5	10.5	0.5	3.5	493-3413-ND	.28	1.92	10.88	QYX2A182KTP
	0.0022	2.8	5.5	10.5	0.5	3.5	493-3414-ND	.28	1.92	10.88	QYX2A222KTP
	0.0027	2.8	5.5	10.5	0.5	3.5	493-3415-ND	.28	1.92	10.88	QYX2A272KTP
	0.0033	2.8	5.5	10.5	0.5	3.5	493-3416-ND	.28	1.92	10.88	QYX2A332KTP
	0.0039	2.8	5.5	10.5	0.5	3.5	493-3417-ND	.28	1.92	10.88	QYX2A392KTP
	0.0047	2.8	5.5	10.5	0.5	3.5	493-3418-ND	.28	1.92	10.88	QYX2A472KTP
	0.0056	2.8	6.0	10.5	0.5	5.0	493-3419-ND	.28	1.92	10.88	QYX2A562KTP
	0.0068	2.8	6.0	10.5	0.5	5.0	493-3420-ND	.28	1.92	10.88	QYX2A682KTP
	0.0082	3.0	6.5	10.5	0.5	5.0	493-3421-ND	.28	1.92	10.88	QYX2A822KTP
	0.01	3.0	6.5	10.5	0.5	5.0	493-3422-ND	.30	2.04	11.56	QYX2A103KTP
	0.012	3.0	6.5	11.5	0.5	5.0	493-3423-ND	.30	2.04	11.56	QYX2A123KTP
	0.015	3.0	6.5	11.5	0.5	5.0	493-3424-ND	.31	2.10	11.90	QYX2A153KTP
	0.018	3.5	6.5	11.5	0.5	5.0	493-3425-ND	.31	2.10	11.90	QYX2A183KTP
	0.022	3.5	6.5	11.5	0.5	5.0	493-3426-ND	.33	2.28	12.92	QYX2A223KTP
	0.027	3.5	7.5	11.5	0.5	5.0	493-3427-ND	.33	2.28	12.92	QYX2A273KTP
	0.033	3.5	7.5	11.5	0.5	5.0	493-3428-ND	.32	2.20	13.20	QYX2A333KTP
	0.039	4.5	8.5	12.5	0.5	5.0	493-3429-ND	.32	2.20	13.20	QYX2A393KTP
	0.047	4.5	8.5	12.5	0.5	5.0	493-3430-ND	.35	2.45	14.70	QYX2A473KTP
	0.056	4.5	9.5	12.5	0.5	7.5	493-3431-ND	.35	2.45	14.70	QYX2A563KTP
	0.068	4.5	9.5	12.5	0.5	7.5	493-3432-ND	.45	3.10	18.60	QYX2A683KTP
	0.082	5.5	11.0	12.5	0.5	7.5	493-3433-ND	.45	3.10	18.60	QYX2A823KTP
	0.1	5.5	11.0	12.5	0.5	7.5	493-3434-ND	.42	2.95	19.44	QYX2A104KTP
	0.12	6.0	12.5	14.0	0.5	10.0	493-3435-ND	.42	2.95	19.44	QYX2A124KTP
	0.15	6.0	12.5	14.0	0.5	10.0	493-3436-ND	.53	3.77	24.84	QYX2A154KTP

Voltage (VDC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Pricing			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
100	0.18	7.0	14.0	14.0	0.5	10.0	493-3437-ND	.53	3.77	24.84	QYX2A184KTP
	0.22	7.0	14.0	14.0	0.5	10.0	493-3438-ND	.68	4.80	31.59	QYX2A224KTP
	0.27	8.0	14.5	17.0	0.6	10.0	493-3439-ND	.68	4.80	31.59	QYX2A274KTP
	0.33	8.0	14.5	17.0	0.6	10.0	493-3440-ND	.79	5.85	40.08	QYX2A334KTP
	0.39	9.5	16.5	17.0	0.6	10.0	493-3441-ND	.79	5.85	40.08	QYX2A394KTP
	0.47	9.5	16.5	17.0	0.6	10.0	493-3442-ND	.86	6.50	46.50	QYX2A474KTP
	0.001	2.8	5.5	10.0	0.5	3.5	493-3476-ND	.30	2.04	11.56	QYX2A102JTP
	0.0012	2.8	5.5	10.5	0.5	3.5	493-3477-ND	.30	2.04	11.56	QYX2A122JTP
	0.0015	2.8	5.5	10.5	0.5	3.5	493-3478-ND	.30	2.04	11.56	QYX2A152JTP
	0.0018	2.8	5.5	10.5	0.5	3.5	493-3479-ND	.30	2.04	11.56	QYX2A182JTP
	0.0022	2.8	5.5	10.5	0.5	3.5	493-3480-ND	.30	2.04	11.56	QYX2A222JTP
	0.0027	2.8	5.5	10.5	0.5	3.5	493-3481-ND	.30	2.04	11.56	QYX2A272JTP
	0.0033	2.8	5.5	10.5	0.5	3.5	493-3482-ND	.31	2.10	11.90	QYX2A332JTP
	0.0039	2.8	5.5	10.5	0.5	3.5	493-3483-ND	.31	2.10	11.90	QYX2A392JTP
	0.0047	2.8	5.5	10.5	0.5	3.5	493-3484-ND	.31	2.10	11.90	QYX2A472JTP
	0.0056	2.8	6.0	10.5	0.5	5.0	493-3485-ND	.31	2.10	11.90	QYX2A562JTP
	0.0068	2.8	6.0	10.5	0.5	5.0	493-3486-ND	.31	2.10	11.90	QYX2A682JTP
	0.0082	3.0	6.5	10.5	0.5	5.0	493-3487-ND	.31	2.10	11.90	QYX2A822JTP
	0.01	3.0	6.5	10.5	0.5	5.0	493-3488-ND	.32	2.16	12.24	QYX2A103JTP
	0.012	3.0	6.5	11.5	0.5	5.0	493-3489-ND	.32	2.16	12.24	QYX2A123JTP
	0.015	3.0	6.5	11.5	0.5	5.0	493-3490-ND	.33	2.28	12.92	QYX2A153JTP
	0.018	3.5	6.5	11.5	0.5	5.0	493-3491-ND	.33	2.28	12.92	QYX2A183JTP
	0.022	3.5	6.5	11.5	0.5	5.0	493-3492-ND	.30	2.05	12.30	QYX2A223JTP
	0.027	3.5	7.5	11.5	0.5	5.0	493-3493-ND	.30	2.05	12.30	QYX2A273JTP
	0.033	3.5	7.5	11.5	0.5	5.0	493-3494-ND	.32	2.25	13.50	QYX2A333JTP
	0.039	4.5	8.5	12.5	0.5	5.0	493-3495-ND	.32	2.25	13.50	QYX2A393JTP
	0.047	4.5	8.5	12.5	0.5	5.0	493-3496-ND	.37	2.55	15.30	QYX2A473JTP
	0.056	4.5	9.5	12.5	0.5	7.5	493-3497-ND	.37	2.55	15.30	QYX2A563JTP
	0.068	4.5	9.5	12.5	0.5	7.5	493-3498-ND	.46	3.20	19.20	QYX2A683JTP
	0.082	5.5	11.0	12.5	0.5	7.5	493-3499-ND	.46	3.20	19.20	QYX2A823JTP
	0.1	5.5	11.0	12.5	0.5	7.5	493-3500-ND	.42	2.95	19.44	QYX2A104JTP
	0.12	6.0	12.5	14.0	0.5	10.0	493-3501-ND	.42	2.95	19.44	QYX2A124JTP
	0.15	6.0	12.5	14.0	0.5	10.0	493-3502-ND	.51	3.61	23.76	QYX2A154JTP
	0.18	7.0	14.0	14.0	0.5	10.0	493-3503-ND	.51	3.61	23.76	QYX2A184JTP
	0.22	7.0	14.0	14.0	0.5	10.0	493-3504-ND	.64	4.51	29.70	QYX2A224JTP
	0.27	8.0	14.5	17.0	0.6	10.0	493-3505-ND	.64	4.51	29.70	QYX2A274JTP
	0.33	8.0	14.5	17.0	0.6	10.0	493-3506-ND	.74	5.43	37.20	QYX2A334JTP
	0.39	9.5	16.5	17.0	0.6	10.0	493-3507-ND	.74	5.43	37.20	QYX2A394JTP
	0.47	9.5	16.5	17.0	0.6	10.0	493-3508-ND	.78	5.95	42.55	QYX2A474JTP

NEW! XK-(ZH) Metallized Polyester Film Capacitor

The XK Series film capacitors are: • Highly reliable and superior performance in high frequency applications, self-healing and non-inductive construction, using a dielectric made of polyethylene terephthalate film covered with vacuum-evaporated metal • Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, which provides excellent humidity resistance • Designed to be compact and to cover larger capacitance range having advantage of tolerating to A.C. voltage and large current flow • Designed 1mm maximum of epoxy on lead wire for best performance at soldering process on P.C. board assemblies

Applications: Filtering, DC-blocking , coupling AC circuits for motor starting, charging / discharging, lighting, and noise suppression

Specifications: • Temperature: -40 to 105°C (Rated temperature : 85°C) • Rated Voltage: 250, 400, and 630VDC • Capacitance Tolerance: ±5% (J) and ±10% (K) • Insulation Resistance: C ≤ 0.33µF : 9000 MΩ or more, C > 0.33µF : 3000 ΩF or more • Withstand Voltage: Between Terminals - Rated Voltage x 175%, 1 to 5 seconds / Between Terminals and Coverage - Rated Voltage x 200%, 1 to 5 seconds • Encapsulation: Flame-retardant epoxy resin

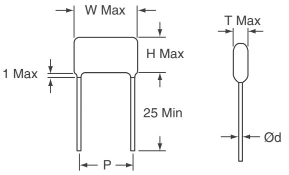

Voltage (VDC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Nichicon Part No.
		T	W	H	ød	P		1	10	100	
250	0.047	4.7	13.5	8.8	0.6	10.5	493-3558-ND	.47	.34	.22	QXK2E473KTPTZH
	0.068	4.7	13.5	8.8	0.6	10.5	493-3559-ND	.47	.34	.22	QXK2E683KTPTZH
	0.1	5.3	13.5	9.4	0.6	10.5	493-3560-ND	.55	.39	.26	QXK2E104KTPTZH
	0.15	5.5	15.5	9.6	0.6	12.5	493-3561-ND	.61	.44	.29	QXK2E154KTPTZH
	0.22	6.3	15.5	10.4	0.6	12.5	493-3562-ND	.67	.48	.32	QXK2E224KTPTZH
	0.33	7.4	15.5	11.5	0.6	12.5	493-3563-ND	.81	.60	.41	QXK2E334KTPTZH
	0.47	6.7	20.5	11.4	0.6	17.5	493-3564-ND	.74	.55	.38	QXK2E474KTPTZH
	0.68	7.2	20.5	13.5	0.6	17.5	493-3565-ND	.87	.66	.48	QXK2E684KTPTZH
	1.0	8.6	20.5	14.8	0.6	17.5	493-3566-ND	.97	.77	.58	QXK2E105KTPTZH
	1.5	8.3	26.0	16.6	0.8	22.5	493-3567-ND	1.63	1.29	.97	QXK2E155KTPTZH
	2.2	10.0	26.0	18.3	0.8	22.5	493-3568-ND	1.79	1.45	1.11	QXK2E225KTPTZH
	3.3	10.7	31.0	19.1	0.8	27.5	493-3569-ND	2.16	1.75	1.34	QXK2E335KTPTZH
400	0.022	4.9	13.5	9.0	0.6	10.5	493-3570-ND	.47	.34	.22	QXK2G223KTPTZH
	0.033	5.6	13.5	9.7	0.6	10.5	493-3571-ND	.47	.34	.22	QXK2G333KTPTZH
	0.047	5.5	15.5	9.6	0.6	12.5	493-3572-ND	.53	.38	.25	QXK2G473KTPTZH
	0.068	6.3	15.5	10.4	0.6	12.5	493-3573-ND	.61	.44	.29	QXK2G683KTPTZH
	0.1	7.3	15.5	11.4	0.6	12.5	493-3574-ND	.65	.46	.31	QXK2G104KTPTZH
	0.15	6.6	20.5	11.3	0.6	17.5	493-3575-ND	.64	.48	.33	QXK2G154KTPTZH
	0.22	7.7	20.5	12.4	0.6	17.5	493-3576-ND	.74	.55	.38	QXK2G224KTPTZH
	0.33	8.6	20.5	14.8	0.6	17.5	493-3577-ND	.84	.64	.46	QXK2G334KTPTZH
	0.47	10.1	20.5	16.4	0.6	17.5	493-3578-ND	.95	.75	.57	QXK2G474KTPTZH
	0.68	9.5	26.0	17.9	0.8	22.5	493-3579-ND	1.26	1.00	.75	QXK2G684KTPTZH
	1.0	11.5	26.0	19.9	0.8	22.5	493-3580-ND	1.71	1.39	1.06	QXK2G105KTPTZH
	1.5	12.3	31.0	20.6	0.8	27.5	493-3581-ND	2.11	1.71	1.31	QXK2G155KTPTZH
630	0.01	4.8	15.5	8.9	0.6	12.5	493-3582-ND	.45	.32	.22	QXK2J103KTPTZH
	0.015	5.5	15.5	9.5	0.6	12.5	493-3583-ND	.47	.34	.22	QXK2J153KTPTZH
	0.022	6.3	15.5	10.3	0.6	12.5	493-3584-ND	.50	.36	.24	QXK2J223KTPTZH
	0.033	7.1	15.5	11.8	0.6	12.5	493-3585-ND	.55	.39	.26	QXK2J333KTPTZH
	0.047	6.2	20.5	11.0	0.6	17.5	493-3586-ND	.59	.42	.28	QXK2J473KTPTZH
	0.068	6.7	20.5	13.0	0.6	17.5	493-3587-ND	.67	.48	.32	QXK2J683KTPTZH
	0.1	7.8	20.5	14.1	0.6	17.5	493-3588-ND	.64	.48	.33	QXK2J104KTPTZH
	0.15	8.0	26.0	14.8	0.8	22.5	493-3589-ND	.77	.57	.39	QXK2J154KTPTZH
	0.22	8.9	26.0	17.1	0.8	22.5	493-3590-ND	.89	.68	.49	QXK2J224KTPTZH
	0.33	10.9	26.0	19.3	0.8	22.5	493-3591-ND	1.05	.84	.63	QXK2J334KTPTZH
	0.47	11.3	31.0	19.7	0.8	27.5	493-3592-ND	1.39	1.10	.83	QXK2J474KTPTZH

nichicon *NEW!* Plastic Film Capacitors

XL Series
Metallized Polyester Film Capacitors

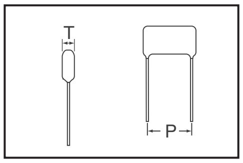

The XL Series capacitors are: • Highly reliable and superior in high frequency applications, self-healing and non-inductive construction, using a dielectric of metallized polyester film • Finished by inner dipping, with liquid epoxy resin and outer coating with flame-retardant epoxy resin, those double coatings provide excellent humidity resistance • Designed in a small and compact size but yet with higher capacitance for high density mounting

Specifications:

• Temperature Range: -40 ~ 105°C • Rated Voltage: 125VAC and 250VAC • Capacitance Tolerance: ±10% (K) • Insulation Resistance: C ≤ 0.47μF : 2000 MΩ or more, C > 0.47μF : 1000 ΩF or more • Encapsulation: Flame retardant epoxy resin

Voltage (VAC)	Cap. (μF)	Dimensions (mm) T	P	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
125	0.022	4.3	7.5	493-3607-ND	.59	.42	.28	QXL2B223KTPT
	0.033	4.6	7.5	493-3608-ND	.59	.42	.28	QXL2B333KTPT
	0.047	5.1	7.5	493-3609-ND	.66	.47	.31	QXL2B473KTPT
	0.068	5.8	7.5	493-3610-ND	.74	.53	.35	QXL2B683KTPT
	0.1	6.8	7.5	493-3611-ND	.67	.50	.35	QXL2B104KTPT
	0.15	6.5	10.0	493-3612-ND	.80	.59	.41	QXL2B154KTPT
	0.22	7.6	10.0	493-3613-ND	.84	.64	.46	QXL2B224KTPT
	0.33	6.7	15.0	493-3614-ND	.96	.76	.57	QXL2B334KTPT
	0.47	7.7	15.0	493-3615-ND	1.11	.88	.66	QXL2B474KTPT
	0.68	9.1	15.0	493-3616-ND	1.44	1.14	.86	QXL2B684KTPT
	1.0	8.0	22.5	493-3617-ND	1.83	1.45	1.09	QXL2B105KTPT

Voltage (VAC)	Cap. (μF)	Dimensions (mm) T	P	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
250	0.01	4.4	10.0	493-3618-ND	.68	.48	.32	QXL2E103KTPT
	0.015	4.7	10.0	493-3619-ND	.68	.48	.32	QXL2E153KTPT
	0.022	5.1	10.0	493-3620-ND	.70	.50	.33	QXL2E223KTPT
	0.033	5.9	10.0	493-3621-ND	.63	.47	.32	QXL2E333KTPT
	0.047	6.4	10.0	493-3622-ND	.65	.48	.33	QXL2E473KTPT
	0.068	5.8	15.0	493-3623-ND	.75	.56	.38	QXL2E683KTPT
	0.1	6.4	15.0	493-3624-ND	.78	.60	.43	QXL2E104KTPT
	0.15	7.1	15.0	493-3625-ND	.92	.71	.51	QXL2E154KTPT
	0.22	9.6	15.0	493-3626-ND	1.06	.84	.63	QXL2E224KTPT
	0.33	7.9	22.5	493-3627-ND	1.28	1.01	.76	QXL2E334KTPT
	0.47	9.4	22.5	493-3628-ND	1.44	1.14	.86	QXL2E474KTPT

XP Series
Metallized Polypropylene Film Capacitors

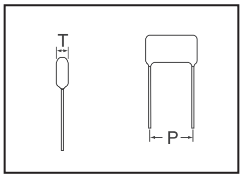

The XP Series capacitors are: • Ideal for high frequency applications due to a metallized polypropylene film dielectric which exhibits superior operative characteristics with minimal loss at high frequency • Self-healing electrode and non-inductive construction provides excellent characteristics in minimal inductance having better with standing voltage capability • Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, those double coating gives superior characteristics against moisture

Applications: High frequency circuits, general electronic circuits and etc.

Specifications: • Temperature Range: -40 ~ 105°C • Rated Voltage: 250, 400, 630, 800VDC • Capacitance Tolerance: ±5% (J), ±10% (K) • Insulation Resistance: C ≤ 0.33μF : 30000 MΩ or more, C > 0.33μF : 10000 ΩF or more • Withstand Voltage: Between Terminals - Rated Voltage x 175%, 1 to 5 seconds, Between Terminal and Coverage - Rated Voltage x 200%, 1 to 5 seconds • Encapsulation: Flame retardant epoxy resin

Voltage (VDC)	Cap. (μF)	Dimensions (mm) T	P	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
250	0.047	5.6	12.5	493-3629-ND	.70	.52	.36	QXP2E473KRPT
	0.068	6.1	12.5	493-3630-ND	.79	.59	.41	QXP2E683KRPT
	0.1	6.8	12.5	493-3631-ND	.79	.61	.44	QXP2E104KRPT
	0.15	7.7	12.5	493-3632-ND	.96	.73	.53	QXP2E154KRPT
	0.22	7.4	17.5	493-3633-ND	1.05	.80	.58	QXP2E224KRPT
	0.33	8.5	17.5	493-3634-ND	1.08	.85	.64	QXP2E334KRPT
	0.47	9.4	17.5	493-3635-ND	1.41	1.12	.84	QXP2E474KRPT
	0.68	10.3	17.5	493-3636-ND	1.79	1.42	1.07	QXP2E684KRPT
	1.0	9.9	22.5	493-3637-ND	2.07	1.68	1.28	QXP2E105KRPT
	1.5	11.8	22.5	493-3638-ND	2.84	2.30	1.76	QXP2E155KRPT
	2.2	12.6	27.5	493-3639-ND	3.14	2.54	1.94	QXP2E225KRPT
	3.3	14.5	27.5	493-3640-ND	3.11	2.51	1.96	QXP2E335KRPT
400	0.022	5.8	12.5	493-3641-ND	.67	.49	.34	QXP2G223KRPT
	0.033	6.5	12.5	493-3642-ND	.70	.52	.36	QXP2G333KRPT
	0.047	7.2	12.5	493-3643-ND	.76	.56	.39	QXP2G473KRPT
	0.068	8.2	12.5	493-3644-ND	.78	.60	.43	QXP2G683KRPT
	0.1	7.6	17.5	493-3645-ND	.85	.65	.47	QXP2G104KRPT
	0.15	8.6	17.5	493-3646-ND	1.00	.76	.55	QXP2G154KRPT
	0.22	9.2	17.5	493-3647-ND	1.01	.81	.61	QXP2G224KRPT
	0.33	11.1	17.5	493-3648-ND	1.19	.95	.71	QXP2G334KRPT
	0.47	10.4	22.5	493-3649-ND	1.54	1.22	.92	QXP2G474KRPT
	0.68	12.3	22.5	493-3650-ND	1.90	1.54	1.18	QXP2G684KRPT
	1.0	13.0	27.5	493-3651-ND	2.31	1.87	1.43	QXP2G105KRPT
	1.5	14.9	27.5	493-3652-ND	3.15	2.55	1.95	QXP2G155KRPT

Voltage (VDC)	Cap. (μF)	Dimensions (mm) T	P	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
630	0.01	5.5	12.5	493-3653-ND	.63	.47	.32	QXP2J103KRPT
	0.015	6.1	12.5	493-3654-ND	.66	.49	.34	QXP2J153KRPT
	0.022	6.8	12.5	493-3655-ND	.70	.52	.36	QXP2J223KRPT
	0.033	7.5	12.5	493-3656-ND	.78	.58	.40	QXP2J333KRPT
	0.047	6.7	17.5	493-3657-ND	.85	.63	.43	QXP2J473KRPT
	0.068	7.1	17.5	493-3658-ND	.89	.68	.49	QXP2J683KRPT
	0.1	8.2	17.5	493-3659-ND	.99	.76	.54	QXP2J104KRPT
	0.15	9.6	17.5	493-3660-ND	.97	.77	.58	QXP2J154KRPT
	0.22	9.0	22.5	493-3661-ND	1.14	.90	.68	QXP2J224KRPT
	0.33	10.7	22.5	493-3662-ND	1.53	1.21	.91	QXP2J334KRPT
	0.47	11.1	27.5	493-3663-ND	1.74	1.41	1.08	QXP2J474KRPT
	0.68	13.2	27.5	493-3664-ND	2.17	1.76	1.35	QXP2J684KRPT
800	0.01	6.2	12.5	493-3665-ND	.68	.51	.35	QXP2K103KRPT
	0.015	7.0	12.5	493-3666-ND	.74	.55	.38	QXP2K153KRPT
	0.022	8.0	12.5	493-3667-ND	.82	.63	.45	QXP2K223KRPT
	0.033	7.1	17.5	493-3668-ND	.92	.71	.51	QXP2K333KRPT
	0.047	7.5	17.5	493-3669-ND	1.01	.77	.56	QXP2K473KRPT
	0.068	8.7	17.5	493-3670-ND	1.01	.80	.60	QXP2K683KRPT
	0.1	9.6	17.5	493-3671-ND	1.11	.88	.66	QXP2K104KRPT
	0.15	9.6	17.5	493-3672-ND	1.23	.97	.73	QXP2K154KRPT
	0.22	11.5	22.5	493-3673-ND	1.39	1.10	.83	QXP2K224KRPT
	0.33	12.1	27.5	493-3674-ND	1.76	1.39	1.04	QXP2K334KRPT
	0.47	13.7	27.5	493-3675-ND	2.18	1.76	1.35	QXP2K474KRPT

EC Series
Metallized Polypropylene Film AC Power Capacitors

Specifications:

• Temperature Range: -25 ~ 85°C • Rated Voltage: 200 ~ 400VAC • Capacitance Tolerance: ±5% (J), ±10% (K) • Insulation Resistance: Between Terminals Connected Together and Case: 1000 MΩ or more (at 500VDC) • Withstand Voltage: Between Terminals - Rated Voltage x 175%, 10 seconds, Between Terminal Connected Together and Case: 2000VAC, 60 seconds • Encapsulation: Flame retardant epoxy resin

Dimensions in mm

Fig. 1

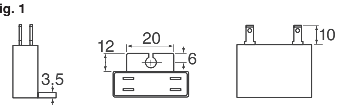

Fig. 2

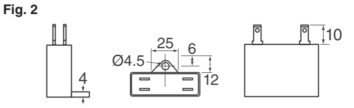

Fig.	Voltage (VAC)	Cap. (μ)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
1	250	2.0	493-3777-ND	5.72	5.09	4.07	EEC2E205HQA401
	250	3.0	493-3778-ND	5.80	5.16	4.13	EEC2E305HQA401
	250	4.0	493-3779-ND	6.12	5.44	4.36	EEC2E405HQA401
	250	5.0	493-3780-ND	6.48	5.76	4.61	EEC2E505HQA402
	250	6.0	493-3781-ND	6.76	6.01	4.81	EEC2E605HQA402
	250	7.0	493-3782-ND	7.52	6.69	5.35	EEC2E705HQA403
	250	8.0	493-3783-ND	7.96	7.08	5.67	EEC2E805HQA404
	250	10.0	493-3784-ND	9.56	8.50	6.80	EEC2E106HQA405
	250	12.0	493-3785-ND	10.68	9.50	7.60	EEC2E126HQA406
	250	15.0	493-3786-ND	10.84	10.31	8.14	EEC2E156HQA407
2	250	20.0	493-3787-ND	13.16	12.50	9.87	EEC2E206HQA415
	250	25.0	493-3788-ND	13.30	12.64	9.98	EEC2E256HQA415
	250	30.0	493-3789-ND	16.46	15.64	12.35	EEC2E306HQA415
	250	40.0	493-3790-ND	20.03	18.98	15.29	EEC2E406HQA416

Fig.	Voltage (VAC)	Cap. (μ)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2	250	50.0	493-3791-ND	23.92	22.66	18.26	EEC2E506HQA431
1	400	1.0	493-3792-ND	5.60	5.04	3.81	EEC2G105HQA401
	400	2.0	493-3793-ND	6.09	5.49	4.15	EEC2G205HQA402
	400	3.0	493-3794-ND	6.32	5.62	4.50	EEC2G305HQA403
	400	4.0	493-3795-ND	8.00	7.12	5.69	EEC2G405HQA405
	400	5.0	493-3796-ND	8.76	7.79	6.23	EEC2G505HQA406
	400	6.0	493-3797-ND	9.80	8.72	6.97	EEC2G605HQA407
	400	7.0	493-3798-ND	10.16	9.04	7.23	EEC2G705HQA407
	400	8.0	493-3799-ND	11.88	11.29	8.91	EEC2G805HQA415
	400	10.0	493-3800-ND	12.34	11.73	9.26	EEC2G106HQA415
	400	12.0	493-3801-ND	12.73	12.10	9.55	EEC2G126HQA415
	400	15.0	493-3802-ND	15.75	14.97	11.82	EEC2G156HQA416
2	400	20.0	493-3803-ND	17.14	16.29	12.86	EEC2G206HQA431

VISHAY. BCcomponents

Metallized Polyester Film Capacitors

MKT 370 and MKT 373 Series

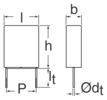

FEATURES: • Low-inductive wound cell of metallized (PETP) film • Potted with epoxy resin in a flame-retardant case • Radial leads of solder-coated wire • Withstands solvents and rinsing liquids • Small stand-off pips to allow removal of solder flux • Suitable for high density packaging **APPLICATIONS:** • Blocking and coupling • Bypass and energy reservoir **SPECIFICATIONS: Rated Temperature:** 85°C **Maximum Application Temperature:** 105°C

Volt. (DC)	Cap. (µF)	Toler-ance	Dimensions (mm)						Digi-Key Part No.	Pricing			Vishay Part No.
			b	h	l	P	lt	ødt		1	10	50	
									MKT 370 Series				
63	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1633-ND	.47	3.33	12.59	BFC2 370 11563
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1635-ND	.47	3.33	12.59	BFC2 370 11683
	.10	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1621-ND◆	.41	2.90	10.97	BFC2 370 11104
	.12	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1623-ND	.50	3.51	13.27	BFC2 370 11124
	.15	±5%	2.5	6.5	7.2	5.08	4.0	.50	3014PH-ND◆	.58	4.08	15.42	BFC2 370 12154
	.15	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1625-ND◆	.55	3.89	14.71	BFC2 370 11154
	.18	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1627-ND	.59	4.16	15.73	BFC2 370 11184
	.22	±5%	3.5	8.0	7.2	5.08	4.0	.50	3015PH-ND◆	.69	4.87	18.43	BFC2 370 12224
	.22	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1628-ND◆	.66	4.65	17.58	BFC2 370 11224
	.27	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1629-ND	.62	4.56	18.24	BFC2 370 11274
	.33	±5%	3.5	8.0	7.2	5.08	4.0	.50	3016PH-ND◆	.69	5.10	20.38	BFC2 370 12334
	.33	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1630-ND	.66	4.87	19.46	BFC2 370 11334
	.39	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1631-ND◆	.76	5.62	22.50	BFC2 370 11394
	.47	±5%	3.5	8.0	7.2	5.08	4.0	.50	3017PH-ND◆	.79	6.01	24.95	BFC2 370 12474
	.47	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1632-ND◆	.84	6.16	24.65	BFC2 370 11474
	.56	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1634-ND	.94	7.16	29.73	BFC2 370 11564
	.68	±5%	4.5	9.0	7.2	5.08	4.0	.50	3018PH-ND◆	1.06	8.09	33.60	BFC2 370 12684
	.68	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1636-ND◆	1.01	7.70	32.00	BFC2 370 11684
	1.0	±5%	6.0	11.0	7.2	5.08	4.0	.50	3019PH-ND◆	1.11	8.74	37.86	BFC2 370 12105
	1.0	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1622-ND◆	1.05	8.33	36.09	BFC2 370 11105
	1.2†	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1624-ND	1.16	9.14	39.59	BFC2 370 11125
	1.5†	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1626-ND◆	1.71	13.49	58.44	BFC2 370 11155
100	.012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1640-ND	.43	3.03	11.47	BFC2 370 21123
	.015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1642-ND◆	.43	3.03	11.47	BFC2 370 21153
	.018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1644-ND	.43	3.03	11.47	BFC2 370 21183
	.022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1646-ND	.43	3.03	11.47	BFC2 370 21223
	.027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1648-ND	.43	3.06	11.56	BFC2 370 21273
	.033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1650-ND◆	.43	3.06	11.56	BFC2 370 21333
	.039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1652-ND	.46	3.28	12.42	BFC2 370 21393
	.047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3011PH-ND◆	.49	3.44	13.00	BFC2 370 22473
	.047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1654-ND	.46	3.28	12.42	BFC2 370 21473
	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1656-ND	.55	3.89	14.71	BFC2 370 21563
	.068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3012PH-ND◆	.61	4.34	16.41	BFC2 370 22683
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1657-ND	.59	4.14	15.66	BFC2 370 21683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1658-ND	.61	4.32	16.32	BFC2 370 21823
	.10	±5%	2.5	8.0	7.2	5.08	4.0	.50	3013PH-ND◆	.64	4.52	17.08	BFC2 370 22104
	.10	±10%	2.5	8.0	7.2	5.08	4.0	.50	BC1639-ND◆	.61	4.31	16.28	BFC2 370 21104
	.12	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1641-ND	.69	4.87	18.40	BFC2 370 21124
	.15	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1643-ND	.74	5.21	19.70	BFC2 370 21154
	.22	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1647-ND◆	.71	5.22	20.87	BFC2 370 21224
	.33	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1651-ND	.82	6.05	24.21	BFC2 370 21334
	.47	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1655-ND◆	.91	6.94	28.82	BFC2 370 21474
250	.0047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3005PH-ND◆	.43	3.07	11.61	BFC2 370 42472
	.0068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3006PH-ND◆	.43	3.07	11.61	BFC2 370 42682
	.010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3007PH-ND◆	.45	3.15	11.92	BFC2 370 42103
	.015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3008PH-ND◆	.45	3.20	12.11	BFC2 370 42103
	.022	±5%	3.5	8.0	7.2	5.08	4.0	.50	3009PH-ND◆	.50	3.57	13.49	BFC2 370 42223
	.033	±5%	3.5	8.0	7.2	5.08	4.0	.50	3010PH-ND◆	.60	4.21	15.92	BFC2 370 42333
400	.0010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3001PH-ND◆	.43	3.07	11.61	BFC2 370 52102
	.0010	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1659-ND	.41	2.93	11.07	BFC2 370 51102
	.0012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1661-ND	.41	2.93	11.07	BFC2 370 51122
	.0015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3002PH-ND◆	.43	3.07	11.61	BFC2 370 52152
400	.0015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1663-ND	.41	2.93	11.07	BFC2 370 51152
	.0018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1665-ND	.41	2.93	11.07	BFC2 370 51182
	.0022	±5%	2.5	6.5	7.2	5.08	4.0	.50	3003PH-ND◆	.43	3.07	11.61	BFC2 370 52222
	.0022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1667-ND◆	.41	2.93	11.07	BFC2 370 51222
	.0027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1669-ND	.41	2.93	11.07	BFC2 370 51272
	.0033	±5%	2.5	6.5	7.2	5.08	4.0	.50	3004PH-ND	.43	3.07	11.61	BFC2 370 52332
	.0033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1671-ND◆	.41	2.93	11.07	BFC2 370 51332
	.0039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1673-ND◆	.43	3.03	11.47	BFC2 370 51392
	.0047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1675-ND◆	.43	3.03	11.47	BFC2 370 51472
	.0056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1677-ND◆	.44	3.08	11.66	BFC2 370 51562
	.0068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1678-ND	.44	3.08	11.66	BFC2 370 51682
	.0082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1679-ND◆	.45	3.15	11.92	BFC2 370 51822
	.01	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1660-ND◆	.45	3.15	11.92	BFC2 370 51103
	.012	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1662-ND	.46	3.28	12.40	BFC2 370 51123
	.015	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1664-ND◆	.46	3.28	12.40	BFC2 370 51153
	.018	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1666-ND◆	.50	3.51	13.27	BFC2 370 51183
	.022	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1668-ND	.50	3.56	13.45	BFC2 370 51223
	.027	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1670-ND	.59	4.16	15.73	BFC2 370 51273
	.033	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1672-ND◆	.63	4.45	16.82	BFC2 370 51333
	.039	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1674-ND	.67	4.75	17.95	BFC2 370 51393
	.047	±10%	6.0	11.0	7.2	5.08	4 .0	.50	BC1676-ND◆	.72	5.09	19.25	BFC2 370 51473
									MKT 373 Series				
100	.47	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1770-ND	.95	7.22	29.97	BFC2 373 21474
	.68	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1772-ND◆	1.06	8.34	36.14	BFC2 373 21684
	1.0	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1763-ND◆	1.26	9.96	43.16	BFC2 373 21105
	1.5	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1765-ND◆	1.69	13.32	57.72	BFC2 373 21155
	1.8	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1766-ND◆	1.78	14.41	62.88	BFC2 373 21185
	2.2	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1767-ND◆	2.03	16.45	71.76	BFC2 373 21225
250	.15	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1775-ND	.80	5.88	23.52	BFC2 373 41154
	.22	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1779-ND◆	.83	6.31	26.19	BFC2 373 41224
	.33	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1782-ND◆	.95	7.22	29.97	BFC2 373 41334
	.47	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1786-ND◆	1.06	8.34	36.14	BFC2 373 41474
	.56	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1788-ND	1.16	9.12	39.52	BFC2 373 41564
	.68	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1789-ND◆	1.22	9.60	41.60	BFC2 373 41684
	1.0	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1774-ND◆	1.37	10.80	46.80	BFC2 373 41105
	1.2	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1791-ND◆	1.66	13.14	56.94	BFC2 373 43125
	1.5	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1776-ND◆	1.88	15.18	66.24	BFC2 373 41155
	1.8	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1778-ND◆	2.25	18.21	79.44	BFC2 373 41185
	2.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1780-ND◆	2.54	20.52	89.52	BFC2 373 41225
	3.3	±10%	13.0	23.0	31.0	27.5	5.0	.80	BC1783-ND◆	3.37	27.23	118.80	BFC2 373 41335
	4.7	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1787-ND◆	4.05	32.70	140.61	BFC2 373 41475
400	.047	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1801-ND	.78	5.74	22.96	BFC2 373 51473
	.068	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1803-ND	.80	6.05	25.11	BFC2 373 51683
	.10	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1793-ND◆	.82	6.24	25.92	BFC2 373 51104
	.15	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1795-ND◆	1.01	7.67	31.86	BFC2 373 51154
	.18	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1797-ND◆	1.00	7.92	34.32	BFC2 373 51184
	.22	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1798-ND◆	1.06	8.34	36.14	BFC2 373 51224
	.33	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1800-ND◆	1.38	10.86	47.06	BFC2 373 51334
	.47	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1809-ND◆	1.58	12.48	54.08	BFC2 373 53474
	.56	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1810-ND	1.85	14.58	63.18	BFC2 373 53564
	.68	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1804-ND◆	1.75	14.19	61.92	BFC2 373 51684
	.82	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1811-ND◆	2.01	16.28	71.04	BFC2 373 53824
	1.0	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1806-ND◆	2.11	17.11	74.64	BFC2 373 53105
	1.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1807-ND◆	2.67	21.56	94.08	BFC2 373 53125

† U_{Rdc} = 50V and U_{Rac} = 32V ◆ ***RoHS Compliant***

Panasonic®

PPS Film Capacitors - ECHS

Non-inductive construction using PPS film as designed for high heat resistance and high frequency applications.

Features: • Wide operating temperature range -40°C ~ 125°C • Excellent temperature coefficient -100PPM/°C • Excellent frequency characteristics

Applications: • Automotive • Oscillation circuits

Electrical Specifications: • Temperature Range: -40°C ~ 125°C • Rated Voltage: 50V DC, 100VDC • Capacitance Range: 0.0001 to 0.47µF • Capacitance Tolerance: ±2%(G) and ±5%(J) • Dissipation Factor: 0.3% maximum at 1kHz and 20°C • Withstand Voltage: 1 ~ 5 seconds at 250% of rated voltage between terminals • Insulation Resistance: 45,000MΩ minimum, for values equal to or less than .33µF. 15,000 MΩ minimum, for greater than .33µF (20°C, 100VDC, 60s)

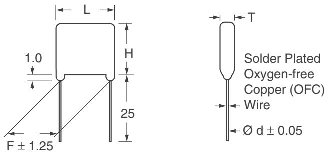

WV DC	Cap. µF	Toler-ance	Dimensions (mm)					Digi-Key Part No.	Price Each			Panasonic Part No.
			L	T	H	F	d		1	50	100	
50	.0012	2%	8.5	4.0	7.8	5.0	0.60	PS1H122G-ND◆	.70	.44	.38	ECH-S1H122GZ
	.0018	2%	8.5	4.0	7.6	5.0	0.60	PS1H182G-ND◆	.70	.44	.38	ECH-S1H182GZ
	.0027	2%	8.5	4.0	7.8	5.0	0.60	PS1H272G-ND◆	.70	.44	.38	ECH-S1H272GZ
	.01	2%	8.5	4.0	7.6	5.0	0.60	PS1H103G-ND◆	.75	.48	.41	ECH-S1H103GZ
	.012	2%	8.5	4.0	8.0	5.0	0.60	PS1H123G-ND◆	.81	.52	.45	ECH-S1H123GZ
	.018	2%	12.0	4.5	8.0	7.5	0.60	PS1H183G-ND◆	.91	.58	.50	ECH-S1H183GZ
	.027	2%	12.0	4.5	10.4	7.5	0.60	PS1H273G-ND◆	.96	.66	.58	ECH-S1H273GZ
	.047	2%	12.0	5.0	10.8	7.5	0.60	PS1H473G-ND◆	1.23	.84	.73	ECH-S1H473GZ
	.056	2%	12.0	5.5	11.0	7.5	0.60	PS1H563G-ND◆	1.36	.93	.81	ECH-S1H563GZ
	.15	2%	17.0	6.5	12.4	12.50	0.60	PS1H154G-ND◆	2.13	1.51	1.32	ECH-S1H154GZ
	.18	2%	17.0	6.5	14.0	12.50	0.60	PS1H184G-ND	2.39	1.69	1.48	ECH-S1H184GZ
	.22	2%	17.0	7.0	14.4	12.50	0.60	PS1H224G-ND◆	2.70	1.91	1.68	ECH-S1H224GZ
	.27	2%	17.0	7.5	15.2	12.50	0.80	PS1H274G-ND	2.79	1.94	1.76	ECH-S1H274GZ
	.39	2%	17.0	9.0	16.4	12.50	0.80	PS1H394G-ND◆	3.47	2.41	2.19	ECH-S1H394GZ
	.0018	5%	8.5	4.0	7.6	5.0	0.60	PS1H182J-ND◆	.37	.20	.18	ECH-S1H182JZ
	.0027	5%	8.5	4.0	7.8	5.0	0.60	PS1H272J-ND◆	.37	.20	.18	ECH-S1H272JZ
	.0056	5%	8.5	4.0	8.2	5.0	0.60	PS1H562J-ND◆	.37	.20	.18	ECH-S1H562JZ
	.0082	5%	8.5	4.0	7.6	5.0	0.60	PS1H822J-ND	.37	.20	.18	ECH-S1H822JZ
	.012	5%	8.5	4.0	8.0	5.0	0.60	PS1H123J-ND◆	.45	.25	.22	ECH-S1H123JZ
	.018	5%	12.0	4.5	8.0	7.5	0.60	PS1H183J-ND	.54	.29	.25	ECH-S1H183JZ
	.022	5%	12.0	4.5	8.2	7.5	0.60	PS1H223J-ND◆	.63	.34	.30	ECH-S1H223JZ
	.027	5%	12.0	4.5	10.4	7.5	0.60	PS1H273J-ND◆	.55	.33	.28	ECH-S1H273JZ
	.033	5%	12.0	4.5	10.6	7.5	0.60	PS1H333J-ND◆	.58	.35	.30	ECH-S1H333JZ
	.039	5%	12.0	5.0	10.4	7.5	0.60	PS1H393J-ND	.60	.36	.31	ECH-S1H393JZ
	.047	5%	12.0	5.0	10.8	7.5	0.60	PS1H473J-ND◆	.63	.38	.32	ECH-S1H473JZ
	.068	5%	14.5	5.0	11.2	10.00	0.60	PS1H683J-ND	.72	.46	.40	ECH-S1H683JZ
	.12	5%	14.5	6.5	12.4	10.00	0.60	PS1H124J-ND◆	.94	.65	.56	ECH-S1H124JZ
	.15	5%	17.0	6.5	12.4	12.50	0.60	PS1H154J-ND◆	1.10	.76	.66	ECH-S1H154JZ
	.33	5%	17.0	8.5	15.8	12.50	0.80	PS1H334J-ND	1.58	1.12	.98	ECH-S1H334JZ
	.39	5%	17.0	9.0	16.4	12.50	0.80	PS1H394J-ND◆	1.78	1.26	1.10	ECH-S1H394JZ

WV DC	Cap. µF	Toler-ance	Dimensions (mm)					Digi-Key Part No.	Price Each			Panasonic Part No.
			L	T	H	F	d		1	50	100	
100	.00012	5%	8.5	4.0	6.5	5.0	0.60	PS1121J-ND	.69	.41	.36	ECH-S1121JZ
	.00015	5%	8.5	4.0	6.5	5.0	0.60	PS1151J-ND◆	.69	.41	.36	ECH-S1151JZ
	.00018	5%	8.5	4.0	6.5	5.0	0.60	PS1181J-ND	.69	.41	.36	ECH-S1181JZ
	.00027	5%	8.5	4.0	6.5	5.0	0.60	PS1271J-ND◆	.69	.41	.36	ECH-S1271JZ
	.00039	5%	8.5	4.0	6.5	5.0	0.60	PS1391J-ND◆	.69	.41	.36	ECH-S1391JZ
	.00082	5%	8.5	4.0	6.5	5.0	0.60	PS1821J-ND◆	.69	.41	.36	ECH-S1821JZ
	.0012	5%	10.0	4.5	7.0	5.0	0.60	PS1122J-ND◆	.56	.30	.26	ECH-S1122JZ
	.0015	5%	10.0	4.5	7.0	5.0	0.60	PS1152J-ND◆	.56	.30	.26	ECH-S1152JZ
	.0018	5%	10.0	4.5	7.0	5.0	0.60	PS1182J-ND	.56	.30	.26	ECH-S1182JZ
	.0022	5%	10.0	4.5	7.5	5.0	0.60	PS1222J-ND◆	.56	.30	.26	ECH-S1222JZ
	.0027	5%	10.0	4.5	7.0	5.0	0.60	PS1272J-ND◆	.56	.30	.26	ECH-S1272JZ
	.0056	5%	12.0	4.5	8.0	7.5	0.60	PS1562J-ND◆	.55	.33	.28	ECH-S1562JZ
	.0068	5%	12.0	4.5	7.8	7.5	0.60	PS1682J-ND◆	.55	.33	.28	ECH-S1682JZ
	.0082	5%	12.0	4.5	8.0	7.5	0.60	PS1822J-ND◆	.55	.33	.28	ECH-S1822JZ
	.01	5%	12.0	4.5	8.0	7.5	0.60	PS1103J-ND◆	.55	.33	.28	ECH-S1103JZ
	.012	5%	12.0	5.0	8.2	7.5	0.60	PS1123J-ND	.65	.39	.33	ECH-S1123JZ
	.015	5%	12.0	5.0	8.4	7.5	0.60	PS1153J-ND	.65	.39	.33	ECH-S1153JZ
	.018	5%	12.0	5.5	8.8	7.5	0.60	PS1183J-ND	.65	.39	.33	ECH-S1183JZ
	.027	5%	12.0	5.5	11.2	7.5	0.60	PS1273J-ND◆	.71	.43	.37	ECH-S1273JZ
	.033	5%	14.5	5.5	11.2	10.0	0.60	PS1333J-ND◆	.73	.43	.37	ECH-S1333JZ
	.039	5%	14.5	6.0	11.6	10.0	0.60	PS1393J-ND	.73	.47	.40	ECH-S1393JZ
	.056	5%	14.5	6.5	12.2	10.0	0.60	PS1563J-ND	.82	.52	.45	ECH-S1563JZ
	.068	5%	17.0	6.5	12.2	12.5	0.60	PS1683J-ND◆	.93	.64	.55	ECH-S1683JZ
	.082	5%	17.0	6.5	13.8	12.5	0.60	PS1823J-ND	.98	.68	.59	ECH-S1823JZ
	.1	5%	17.0	7.0	14.2	12.5	0.60	PS1104J-ND◆	1.01	.70	.60	ECH-S1104JZ
	.12	5%	17.0	7.5	14.8	12.5	0.60	PS1124J-ND	1.20	.83	.72	ECH-S1124JZ
	.18	5%	20.5	7.5	15.6	15.0	0.80	PS1184J-ND	1.71	1.21	1.06	ECH-S1184JZ
	.22	5%	20.5	8.5	16.2	15.0	0.80	PS1224J-ND◆	1.71	1.21	1.06	ECH-S1224JZ
	.27	5%	20.5	9.0	17.6	15.0	0.80	PS1274J-ND	1.83	1.30	1.14	ECH-S1274JZ
	.33	5%	20.5	10.0	18.4	15.0	0.80	PS1334J-ND	2.24	1.59	1.39	ECH-S1334JZ
	.39	5%	20.5	10.5	19.2	15.0	0.80	PS1394J-ND	2.44	1.73	1.51	ECH-S1394JZ
	.47	5%	20.5	11.5	20.2	15.0	0.80	PS1474J-ND	2.50	1.77	1.55	ECH-S1474JZ

◆ *RoHS Compliant*

Panasonic®

Metallized Polyester/Polypropylene Film Capacitors

ECHAX Type – Equipped with a Safety Mechanism

Features:
- Non-inductive construction • Excellent safety characteristics • Flame-retardant epoxy resin dipped enclosure • Small and compact

Application:
- Motor running • Fluorescent lamp ballast

Electrical Specifications:
- Temperature Range: -25°C ~ 70°C • Rated Voltage: 180, 220 and 250VAC • Capacitance Range: 1.0 to 6.0µF • Capacitance Tolerance: ±5%(J) • Dissipation Factor: 0.4% maximum at 50/60Hz and 20°C
- Withstand Voltage: Between Terminals; VAC (rated voltage) x 175% 60s. Between Terminals to Enclosure; 2000VAC 60s
- Insulation Resistance: Between Terminals; 1000Ω Fmin. (20°C 100VDC 60s). Between Terminals to Enclosure; 1000MΩ minimum (20°C 500 VDC 60s)

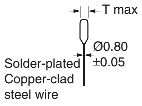

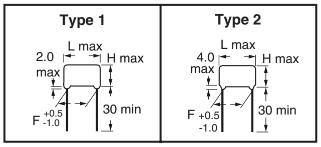

WV AC	Cap. µF	Toler-ance	Dimensions (mm)				Type	Digi-Key Part No.	Price Each			Panasonic Part No.
			L	T	H	F			1	50	100	
180	1.0	5%	26.5	8.5	17.5	22.5	1	P10937-ND	2.52	1.78	1.56	ECH-A18105JX
	2.0	5%	26.5	11.5	21.0	22.5	1	P10938-ND◆	3.34	2.32	2.10	ECH-A18205JX
	3.0	5%	26.5	14.0	24.0	22.5	1	P10939-ND◆	4.36	3.03	2.74	ECH-A18305JX
	4.0	5%	31.5	14.5	24.0	27.5	1	P10940-ND	4.28	3.35	2.92	ECH-A18405JX
	5.0	5%	31.5	16.5	26.0	27.5	1	P10941-ND◆	4.28	3.34	2.91	ECH-A18505JX
	6.0	5%	37.0	16.5	25.5	32.5	1	P10942-ND◆	5.89	4.60	4.01	ECH-A18605JX
220	1.0	5%	26.5	10.0	19.5	22.5	1	P10943-ND	2.96	2.09	1.83	ECH-A22105JX
	2.0	5%	26.5	14.0	23.5	22.5	1	P10944-ND	3.86	2.69	2.44	ECH-A22205JX
	3.0	5%	31.5	15.5	25.0	27.5	1	P10945-ND	4.56	3.17	2.87	ECH-A22305JX
	4.0	5%	37.0	16.0	25.5	32.5	1	P10946-ND◆	3.13	2.18	1.97	ECH-A22405JX
	5.0	5%	37.0	18.0	27.5	32.5	1	P10947-ND	4.75	3.71	3.24	ECH-A22505JX
	6.0	5%	37.0	19.5	29.5	32.5	1	P10948-ND◆	6.04	4.71	4.11	ECH-A22605JX
250	1.0	5%	26.5	12.0	21.5	22.5	1	P10949-ND◆	3.09	2.18	1.91	ECH-A25105JX
	2.0	5%	31.5	15.0	24.5	27.5	1	P10950-ND◆	4.12	2.87	2.60	ECH-A25205JX
	3.0	5%	37.0	16.5	26.0	32.5	1	P10951-ND	3.88	3.03	2.64	ECH-A25305JX
	4.0	5%	37.0	19.5	29.0	32.5	1	P10952-ND◆	5.22	4.08	3.55	ECH-A25405JX
	5.0	5%	40.5	20.0	30.0	30.0	2	P10953-ND	5.79	4.51	4.12	ECH-A25505JX
	6.0	5%	40.5	22.0	32.0	30.0	2	P10954-ND	7.01	5.46	4.99	ECH-A25605JX

◆ *RoHS Compliant*

Panasonic®

SMT Capacitors

Digi-Reel®

ECW-U (PEN Film, Standard Type) and ECH-U (PPS Film, High Grade Type)

Features: • Small in size • High moisture resistance **Applications: Type ECW-U**: • Coupling • By-pass • General purpose **Type ECH-U:** • Time constant • Filtering • Oscillation and resonance

Case Size	Dimensions (mm) L	Dimensions (mm) W	Case Size	Dimensions (mm) L	Dimensions (mm) W
0603 (1608)	1.6	0.8	2820 (7150)	7.1	5.0
0805 (2012)	2.0	1.25	2825 (7163)	7.1	6.3
1206 (3216)	3.2	1.6	3022 (7755)	7.7	5.5
1210 (3225)	3.2	2.5	3925 (9863)	9.8	6.3
1913 (4833)	4.8	3.3	3931 (9880)	9.8	8.0
2416 (6041)	6.0	4.1	6031 (1580)	15.2	8.0
2420 (6050)	6.0	5.0	6039 (1510)	15.2	10.0

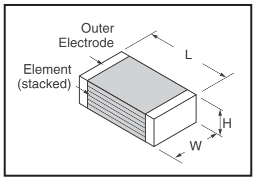

ECW-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 16VDC, 50VDC • Capacitance Tolerance: 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: C≤0.33µF: ≥3000MΩ (20°C, 10VDC, 50VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECW-U(B) (Standard Type) 5% Tolerance, Reflow Only NOT RECOMMENDED FOR NEW DESIGN										
1206 (3216)	50	.0033	0.8	PCF1040CT-ND	.71	22.85	41.13	—	—	ECW-U1H332JB5
	50	.0039	0.8	PCF1041CT-ND	.71	22.85	41.13	—	—	ECW-U1H392JB5
	50	.0047	0.8	PCF1042CT-ND	.71	22.85	41.13	—	—	ECW-U1H472JB5
	50	.0056	0.8	PCF1043CT-ND	.76	24.22	43.60	—	—	ECW-U1H562JB5
	50	.0068	0.8	PCF1044CT-ND◆	.76	24.22	43.60	3,000	182.00/M	ECW-U1H682JB5
	50	.0082	1.0	PCF1045CT-ND	.77	24.74	44.53	—	—	ECW-U1H822JB5
1210 (3225)	50	.012	1.0	PCF1047CT-ND◆	.79	25.43	45.77	2,000	191.00/M	ECW-U1H123JB5
	50	.018	1.4	PCF1049CT-ND	.83	26.46	47.62	2,000	198.00/M	ECW-U1H183JB5
	50	.022	1.4	PCF1050CT-ND	.84	26.97	48.55	2,000	202.00/M	ECW-U1H223JB5
	50	.027	1.4	PCF1051CT-ND	.86	27.49	49.48	2,000	240.00/M	ECW-U1H273JB5
	50	.039	2.0	PCF1053CT-ND	.90	28.86	51.95	—	—	ECW-U1H393JB5

ECW-U(C) Series

Specifications: • Operating Temperature: (16VDC, 50VDC) -55°C ~ 105°C; (100VDC, 250VDC) -40°C ~ 85°C • Rated Voltage: 16, 50, 100, and 250VDC • Withstanding Voltage Between Terminals: (16VDC, 50VDC) Rated Voltage x 175% 1 to 5s; (100VDC or 250VDC) Rated Voltage x 150% 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (C≤0.33µF) ≥3000MΩ; (C>0.33µF) 1000MΩ • Reflow Soldering Conditions: (16VDC, 50VDC) 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface); (100VDC, 250VDC) 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECW-U(C) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4833)	16	.12	1.4	PCF1137CT-ND	1.13	38.00	69.00	3,000	248.00/M	ECW-U1C124JC9
	16	.15	2.0	PCF1138CT-ND◆	1.18	40.00	72.62	3,000	279.00/M	ECW-U1C154JC9
	16	.18	4.8	PCF1139CT-ND◆	1.30	44.00	79.90	3,000	308.00/M	ECW-U1C184JC9
	16	.22	4.8	PCF1140CT-ND◆	1.26	45.47	83.36	2,000	303.00/M	ECW-U1C224JC9
2416 (6041)	16	.27	1.8	PCF1141CT-ND	1.37	49.27	90.32	3,000	328.00/M	ECW-U1C274JC9
	16	.33	2.0	PCF1142CT-ND◆	1.47	53.05	97.25	3,000	353.00/M	ECW-U1C334JC9
	16	.39	2.4	PCF1143CT-ND	1.58	56.84	104.21	2,000	365.00/M	ECW-U1C394JC9
	16	.47	2.8	PCF1144CT-ND◆	1.68	60.62	111.14	2,000	390.00/M	ECW-U1C474JC9
1913 (4833)	50	.056	2.0	PCF1145CT-ND	1.05	33.68	60.62	3,000	231.00/M	ECW-U1H563JC9
	50	.068	2.0	PCF1146CT-ND◆	1.05	33.68	60.62	3,000	231.00/M	ECW-U1H683JC9
	50	.082	2.4	PCF1147CT-ND	1.07	36.01	65.38	2,000	260.00/M	ECW-U1H823JC9
	50	.10	2.8	PCF1148CT-ND◆	1.18	40.00	72.62	2,000	261.00/M	ECW-U1H104JC9
2416 (6041)	50	.12	1.8	PCF1149CT-ND	1.26	45.47	83.36	3,000	335.00/M	ECW-U1H124JC9
	50	.15	2.0	PCF1150CT-ND	1.47	53.05	97.25	3,000	378.00/M	ECW-U1H154JC9
	50	.18	2.4	PCF1151CT-ND	1.68	60.62	111.14	2,000	432.00/M	ECW-U1H184JC9
	50	.22	2.8	PCF1152CT-ND◆	1.89	68.20	125.04	2,000	438.00/M	ECW-U1H224JC9
1913 (4833)	100	.012	1.4	PCF1209CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U1123JC9
	100	.015	1.4	PCF1210CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U1153JC9
	100	.018	1.4	PCF1211CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U1183JC9
	100	.022	1.4	PCF1212CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U1223JC9
	100	.027	1.4	PCF1213CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U1273JC9
	100	.033	1.4	PCF1214CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U1333JC9
	100	.039	1.4	PCF1215CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U1393JC9
	100	.047	2.0	PCF1216CT-ND◆	1.03	34.75	63.10	3,000	264.00/M	ECW-U1473JC9
	100	.056	2.0	PCF1217CT-ND	1.03	34.75	63.10	3,000	264.00/M	ECW-U1563JC9
	100	.068	2.4	PCF1218CT-ND	1.24	41.76	75.83	2,000	307.00/M	ECW-U1683JC9
	100	.082	2.8	PCF1219CT-ND◆	1.34	45.26	82.18	2,000	300.00/M	ECW-U1823JC9
2416 (6041)	100	.10	1.8	PCF1220CT-ND◆	1.28	46.19	84.68	3,000	323.00/M	ECW-U1104JC9
	100	.12	2.4	PCF1221CT-ND	1.46	52.58	96.39	2,000	394.00/M	ECW-U1124JC9
	100	.15	2.8	PCF1222CT-ND◆	1.64	59.20	108.54	2,000	444.00/M	ECW-U1154JC9
1913 (4833)	100	.001	1.4	PCF1361CT-ND◆	1.03	32.90	59.22	3,000	238.00/M	ECW-U2102JC9
	100	.0012	1.4	PCF1362CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2122JC9
	100	.0015	1.4	PCF1363CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2152JC9
	100	.0018	1.4	PCF1364CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2182JC9
	100	.0022	1.4	PCF1365CT-ND◆	1.03	32.90	59.22	3,000	238.00/M	ECW-U2222JC9
	250	.0027	1.4	PCF1366CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2272JC9
	250	.0033	1.4	PCF1367CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2332JC9
	250	.0039	1.4	PCF1368CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2392JC9
	250	.0047	1.4	PCF1369CT-ND◆	1.03	32.90	59.22	3,000	238.00/M	ECW-U2472JC9
	250	.0056	1.4	PCF1370CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2562JC9
	250	.0068	1.4	PCF1371CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2682JC9
	250	.0082	1.4	PCF1372CT-ND	1.03	32.90	59.22	3,000	214.00/M	ECW-U2822JC9
	250	.01	1.4	PCF1373CT-ND◆	1.03	32.90	59.22	3,000	214.00/M	ECW-U2103JC9
	250	.012	1.4	PCF1374CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2123JC9
	250	.015	1.4	PCF1375CT-ND◆	1.03	32.90	59.22	3,000	238.00/M	ECW-U2153JC9
	250	.018	2.0	PCF1376CT-ND	1.03	34.75	63.10	3,000	264.00/M	ECW-U2183JC9
	250	.022	2.0	PCF1377CT-ND	1.03	34.75	63.10	3,000	238.00/M	ECW-U2223JC9
	250	.027	2.4	PCF1378CT-ND◆	1.24	41.76	75.83	2,000	307.00/M	ECW-U2273JC9
	250	.033	2.8	PCF1379CT-ND	1.34	45.26	82.18	2,000	333.00/M	ECW-U2333JC9
2416 (6041)	250	.039	2.0	PCF1380CT-ND	1.28	46.19	84.68	3,000	359.00/M	ECW-U2393JC9
	250	.047	2.4	PCF1381CT-ND◆	1.37	49.27	90.32	2,000	369.00/M	ECW-U2473JC9
	250	.056	2.8	PCF1382CT-ND	1.46	52.58	96.39	2,000	394.00/M	ECW-U2563JC9
	250	.068	3.2	PCF1383CT-ND	1.42	51.16	93.79	2,000	419.00/M	ECW-U2683JC9
2420 (6050)	250	.082	3.2	PCF1384CT-ND	2.19	78.82	144.51	1,500	476.00/M	ECW-U2823JC9
	250	.10	3.8	PCF1385CT-ND◆	1.93	69.53	127.48	1,500	502.00/M	ECW-U2104JC9
	250	.12	4.5	PCF1386CT-ND	2.43	87.53	160.48	1,500	529.00/M	ECW-U2124JC9
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only										
1913 (4833)	100	.012	1.4	PCF1223CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1123KC9
	100	.015	1.4	PCF1224CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1153KC9
	100	.018	1.4	PCF1225CT-ND◆	.82	26.32	47.38	3,000	203.00/M	ECW-U1183KC9
	100	.022	1.4	PCF1226CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1223KC9
	100	.027	1.4	PCF1227CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1273KC9
	100	.033	1.4	PCF1228CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1333KC9
	100	.039	1.4	PCF1229CT-ND	.82	26.32	47.38	3,000	203.00/M	ECW-U1393KC9
	100	.047	2.0	PCF1230CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U1473KC9
	100	.056	2.0	PCF1231CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U1563KC9
	100	.068	2.4	PCF1232CT-ND	1.11	37.51	68.10	2,000	276.00/M	ECW-U1683KC9
	100	.082	2.8	PCF1233CT-ND	1.21	40.76	74.00	2,000	300.00/M	ECW-U1823KC9
2416 (6041)	100	.10	1.8	PCF1234CT-ND◆	1.30	43.76	79.45	3,000	290.00/M	ECW-U1104KC9
	100	.12	2.4	PCF1235CT-ND	1.32	47.38	86.86	2,000	355.00/M	ECW-U1124KC9
	100	.15	2.8	PCF1236CT-ND	1.48	53.30	97.71	2,000	399.00/M	ECW-U1154KC9
2820 (7150)	100	.18	2.0	PCF1237CT-ND◆	1.64	59.20	108.54	1,500	476.00/M	ECW-U1184KC9
	100	.22	2.4	PCF1238CT-ND◆	1.83	65.84	120.71	1,500	477.00/M	ECW-U1224KC9
	100	.27	2.9	PCF1239CT-ND	1.88	67.52	123.78	1,500	542.00/M	ECW-U1274KC9
	100	.33	3.5	PCF1240CT-ND◆	1.91	68.69	125.93	1,500	498.00/M	ECW-U1334KC9
3022 (7755)	100	.39	3.4	PCF1241CT-ND	1.97	70.83	129.86	1,000	569.00	ECW-U1394KCV
	100	.47	4.0	PCF1242CT-ND◆	2.01	72.47	132.86	1,000	525.00	ECW-U1474KCV
3925 (9863)	100	.56	3.0	PCF1243CT-ND◆	2.10	75.56	138.53	1,000	607.00	ECW-U1564KCV
	100	.68	3.6	PCF1244CT-ND◆	2.19	78.88	144.61	1,000	571.00	ECW-U1684KCV
	100	.82	4.3	PCF1245CT-ND◆	2.28	82.19	150.68	1,000	660.00	ECW-U1824KCV
	100	1.0	5.1	PCF1246CT-ND◆	2.38	85.52	156.78	1,000	619.00	ECW-U1105KCV
1913 (4833)	250	.001	1.4	PCF1247CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U2102KC9
	250	.0012	1.4	PCF1248CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2122KC9
	250	.0015	1.4	PCF1249CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2152KC9
	250	.0018	1.4	PCF1250CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2182KC9
	250	.0022	1.4	PCF1251CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U2222KC9
	250	.0027	1.4	PCF1252CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2272KC9
	250	.0033	1.4	PCF1253CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2332KC9
	250	.0039	1.4	PCF1254CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2392KC9
	250	.0047	1.4	PCF1255CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2472KC9
	250	.0056	1.4	PCF1256CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2562KC9
	250	.0068	1.4	PCF1257CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2682KC9
	250	.0082	1.4	PCF1258CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U2822KC9
	250	.01	1.4	PCF1259CT-ND◆	.91	29.22	52.60	3,000	203.00/M	ECW-U2103KC9
	250	.012	1.4	PCF1260CT-ND	.91	29.22	52.60	3,000	211.00/M	ECW-U2123KC9
	250	.015	1.4	PCF1261CT-ND◆	.91	29.22	52.60	3,000	211.00/M	ECW-U2153KC9
	250	.018	2.0	PCF1262CT-ND	1.03	32.90	59.22	3,000	238.00/M	ECW-U2183KC9
	250	.022	2.0	PCF1263CT-ND	1.03	32.90	59.22	3,000	214.00/M	ECW-U2223KC9
	250	.027	2.4	PCF1264CT-ND	1.11	37.51	68.10	2,000	276.00/M	ECW-U2273KC9
	250	.033	2.8	PCF1265CT-ND◆	1.21	40.76	74.00	2,000	270.00/M	ECW-U2333KC9
2416 (6041)	250	.039	2.0	PCF1266CT-ND	1.30	43.76	79.45	3,000	322.00/M	ECW-U2393KC9
	250	.047	2.4	PCF1267CT-ND◆	1.39	47.01	85.35	2,000	312.00/M	ECW-U2473KC9
	250	.056	2.8	PCF1268CT-ND	1.32	47.38	86.86	2,000	355.00/M	ECW-U2563KC9
2420 (6050)	250	.068	3.2	PCF1269CT-ND	1.40	50.45	92.50	2,000	378.00/M	ECW-U2683KC9
	250	.082	3.2	PCF1270CT-ND	1.48	53.30	97.71	1,500	428.00/M	ECW-U2823KC9
	250	.10	3.8	PCF1271CT-ND◆	1.57	56.38	103.36	1,500	408.00/M	ECW-U2104KC9
	250	.12	2.8	PCF1272CT-ND	1.64	59.20	108.54	1,500	476.00/M	ECW-U2124KC9
2825 (7163)	250	.15	3.5	PCF1273CT-ND◆	2.25	81.00	148.50	1,000	650.00	ECW-U2154KCV
	250	.18	4.1	PCF1274CT-ND	2.45	88.16	161.63	1,000	708.00	ECW-U2184KCV
	250	.22	5.1	PCF1275CT-ND◆	2.18	83.62	159.27	1,000	688.00	ECW-U2224KCV
3925 (9863)	250	.27	3.9	PCF1276CT-ND◆	2.35	90.11	171.63	1,000	772.00	ECW-U2274KCV
	250	.33	4.8	PCF1277CT-ND◆	2.51	96.36	183.54	1,000	825.00	ECW-U2334KCV
3931 (9880)	250	.39	4.4	PCF1278CT-ND	2.68	102.83	195.87	1,000	795.00	ECW-U2394KCV
	250	.47	5.3	PCF1279CT-ND◆	2.85	109.32	208.23	1,000	845.00	ECW-U2474KCV
6031 (1580)	250	.56	3.7	PCF1280CT-ND	3.35	128.55	244.86	750	885.00	ECW-U2564KCZ
	250	.68	4.4	PCF1281CT-ND	3.67	153.09	295.97	750	1106.25	ECW-U2684KCZ
6039 (1510)	250	.82	4.2	PCF1282CT-ND	4.04	168.32	325.41	750	1115.25	ECW-U2824KCZ
	250	1.0	5.1	PCF1283CT-ND◆	4.40	183.53	354.82	750	1097.25	ECW-U2105KCZ

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

ECW-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 100VDC • Withstanding Voltage Between Terminals: Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 100VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECW-U(X) (Standard Type) 5% Tolerance, Reflow Only										
1206 (3216)	100	.001	1.1	PCF1348CT-ND◆	1.03	30.94	54.14	3,000	170.00/M	ECW-U1102JX5
	100	.0012	1.1	PCF1349CT-ND	1.03	30.94	54.14	3,000	189.00/M	ECW-U1122JX5
	100	.0015	1.1	PCF1350CT-ND	1.03	30.94	54.14	3,000	189.00/M	ECW-U1152JX5
	100	.0018	1.1	PCF1351CT-ND	1.03	30.94	54.14	3,000	189.00/M	ECW-U1182JX5
	100	.0022	1.1	PCF1352CT-ND◆	1.03	30.94	54.14	3,000	170.00/M	ECW-U1222JX5
	100	.0027	1.1	PCF1353CT-ND	1.03	30.94	54.14	3,000	189.00/M	ECW-U1272JX5
	100	.0033	1.5	PCF1354CT-ND	1.03	30.94	54.14	2,000	170.00/M	ECW-U1332JX5
	100	.0039	1.5	PCF1355CT-ND	1.03	30.94	54.14	2,000	189.00/M	ECW-U1392JX5
	100	.0047	1.5	PCF1356CT-ND◆	1.03	30.94	54.14	2,000	189.00/M	ECW-U1472JX5
1210 (3225)	100	.0056	1.5	PCF1357CT-ND◆	.86	27.36	49.25	2,000	181.00/M	ECW-U1562JX5
	100	.0068	1.5	PCF1358CT-ND	.86	27.36	49.25	2,000	200.00/M	ECW-U1682JX5
	100	.0082	2.1	PCF1359CT-ND	.86	27.36	49.25	2,000	200.00/M	ECW-U1822JX5
	100	.01	2.1	PCF1360CT-ND◆	.86	27.36	49.25	2,000	181.00/M	ECW-U1103JX5

ECW-U (V16) and (V17) Series

Specifications: • Operating Temperature: -55°C ~ 85°C • Rated Voltage: 250VDC, 400VDC • Withstanding Voltage Between Terminals: (250VDC) 400VDC for 60s; (400VDC) 600VDC for 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (250VDC) ≥3000MΩ • Reflow Soldering Conditions: 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECW-U(V16) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4883)	250	.001	1.4	PCF1390CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2102V16
	250	.0012	1.4	PCF1391CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2122V16
	250	.0015	1.4	PCF1392CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2152V16
	250	.0018	1.4	PCF1393CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2182V16
	250	.0022	1.4	PCF1394CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2222V16
	250	.0033	1.4	PCF1395CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2332V16
	250	.0047	1.4	PCF1396CT-ND◆	.84	26.74	48.13	3,000	211.00/M	ECW-U2472V16
	250	.0056	1.4	PCF1397CT-ND◆	.84	26.74	48.13	3,000	211.00/M	ECW-U2562V16
	250	.0068	1.4	PCF1398CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2682V16
	250	.0082	1.4	PCF1399CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2822V16
	250	.01	1.4	PCF1400CT-ND	.84	26.74	48.13	3,000	211.00/M	ECW-U2103V16
	250	.012	1.4	PCF1401CT-ND◆	.84	26.74	48.13	3,000	211.00/M	ECW-U2123V16
	250	.015	1.4	PCF1402CT-ND◆	.84	26.74	48.13	3,000	211.00/M	ECW-U2153V16
	250	.018	2.0	PCF1403CT-ND	.93	29.64	53.35	3,000	234.00/M	ECW-U2183V16
	250	.022	2.0	PCF1404CT-ND◆	.93	29.64	53.35	3,000	234.00/M	ECW-U2223V16
	250	.027	2.4	PCF1405CT-ND◆	1.11	35.42	63.76	2,000	270.00/M	ECW-U2273V16
	250	.033	2.8	PCF1406CT-ND◆	1.08	36.59	66.45	2,000	294.00/M	ECW-U2333V16
2416 (6041)	250	.039	2.0	PCF1407CT-ND	1.17	39.37	71.48	3,000	316.00/M	ECW-U2393V16
	250	.047	2.4	PCF1408CT-ND◆	1.25	42.10	76.45	2,000	338.00/M	ECW-U2473V16
	250	.056	2.8	PCF1409CT-ND◆	1.33	44.84	81.42	2,000	360.00/M	ECW-U2563V16
	250	.068	3.2	PCF1410CT-ND◆	1.25	45.16	82.80	2,000	369.00/M	ECW-U2683V16
2420 (6050)	250	.082	3.2	PCF1411CT-ND	1.33	47.90	87.81	1,500	420.00/M	ECW-U2823V16
	250	.10	3.8	PCF1412CT-ND◆	1.40	50.51	92.60	1,500	443.00/M	ECW-U2104V16
	250	.12	4.5	PCF1413CT-ND	1.48	53.12	97.38	1,500	466.00/M	ECW-U2124V16
ECW-U(V17) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4833)	400	.001	1.4	PCF1414CT-ND◆	1.02	32.70	58.86	3,000	262.00/M	ECW-U4102V17
	400	.0012	1.4	PCF1415CT-ND◆	1.02	32.70	58.86	3,000	262.00/M	ECW-U4122V17
	400	.0015	1.4	PCF1416CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4152V17
	400	.0018	1.4	PCF1417CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4182V17
	400	.0022	1.4	PCF1418CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4222V17
	400	.0027	1.4	PCF1419CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4272V17
	400	.0033	1.4	PCF1420CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4332V17
	400	.0039	1.4	PCF1421CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4392V17
	400	.0047	1.4	PCF1422CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4472V17
	400	.0056	2.0	PCF1423CT-ND	1.02	32.70	58.86	3,000	262.00/M	ECW-U4562V17
	400	.0068	2.0	PCF1424CT-ND◆	1.02	32.70	58.86	3,000	262.00/M	ECW-U4682V17
	400	.0082	2.4	PCF1425CT-ND	1.05	35.55	64.55	2,000	289.67/M	ECW-U4822V17
	400	.01	2.8	PCF1426CT-ND◆	1.10	37.11	67.38	2,000	301.89/M	ECW-U4103V17
2416 (6041)	400	.012	2.0	PCF1427CT-ND	1.19	40.24	73.07	3,000	329.00/M	ECW-U4123V17
	400	.015	2.4	PCF1428CT-ND	1.28	43.36	78.73	2,000	354.00/M	ECW-U4153V17
	400	.018	2.8	PCF1429CT-ND	1.38	46.49	84.42	2,000	365.00/M	ECW-U4183V17
	400	.022	3.2	PCF1430CT-ND◆	1.31	47.02	86.20	2,000	389.00/M	ECW-U4223V17
2420 (6050)	400	.027	3.0	PCF1431CT-ND◆	1.43	51.46	94.35	1,500	457.00/M	ECW-U4273V17
	400	.033	3.6	PCF1432CT-ND◆	1.55	55.69	102.10	1,500	495.00/M	ECW-U4333V17
2820 (7150)	400	.039	3.2	PCF1433CT-ND	1.55	55.69	102.10	1,500	495.00/M	ECW-U4393V17
	400	.047	3.8	PCF1434CT-ND◆	1.63	58.66	107.55	1,500	521.00/M	ECW-U4473V17
2825 (7163)	400	.056	3.6	PCF1435CT-ND	1.63	58.66	107.55	1,000	521.00	ECW-U4563V17
	400	.068	4.4	PCF1436CT-ND◆	1.71	61.63	112.99	1,000	546.00	ECW-U4683V17
3925 (9863)	400	.082	3.4	PCF1437CT-ND	1.71	61.63	112.99	1,000	546.00	ECW-U4823V17
	400	.10	4.0	PCF1438CT-ND◆	1.84	66.08	121.14	1,000	587.00	ECW-U4104V17
3931 (9880)	400	.12	3.8	PCF1439CT-ND	1.84	66.08	121.14	1,000	587.00	ECW-U4124V17
	400	.15	4.6	PCF1440CT-ND◆	1.96	70.52	129.29	1,000	625.00	ECW-U4154V17

ECH-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECH-U(B) (High Grade Type) 2% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN										
0805 (2012)	50	.0001	0.8	PCF1089CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H101GB5
	50	.00012	0.8	PCF1090CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H121GB5
	50	.00015	0.8	PCF1091CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H151GB5
	50	.00018	0.8	PCF1092CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H181GB5
	50	.00022	0.8	PCF1093CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H221GB5
	50	.00027	0.8	PCF1094CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H271GB5
	50	.00033	0.8	PCF1095CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H331GB5
	50	.00039	0.8	PCF1096CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H391GB5
	50	.00047	0.8	PCF1097CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H471GB5
	50	.00056	0.8	PCF1098CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H561GB5
	50	.00068	0.8	PCF1099CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H681GB5
	50	.00082	0.8	PCF1100CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H821GB5
	50	.001	0.8	PCF1101CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H102GB5
	50	.0012	0.8	PCF1102CT-ND	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H122GB5
	50	.0015	0.8	PCF1103CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H152GB5
	50	.0018	0.8	PCF1104CT-ND◆	1.03	33.00	59.40	3,000	238.00/M	ECH-U1H182GB5
	50	.0022	0.8	PCF1105CT-ND	1.03	33.00	59.40	3,000	251.00/M	ECH-U1H222GB5
	50	.0027	0.8	PCF1106CT-ND	1.03	33.00	59.40	3,000	228.00/M	ECH-U1H272GB5
1206 (3216)	50	.0033	0.8	PCF1107CT-ND◆	1.09	36.67	66.59	3,000	280.00/M	ECH-U1H332GB5
	50	.0039	0.8	PCF1108CT-ND◆	1.11	37.43	67.97	3,000	274.00/M	ECH-U1H392GB5
	50	.0047	0.8	PCF1109CT-ND	1.14	38.57	70.04	3,000	301.00/M	ECH-U1H472GB5
	50	.0056	0.8	PCF1110CT-ND◆	1.18	39.71	72.11	3,000	298.00/M	ECH-U1H562GB5
	50	.0068	0.8	PCF1111CT-ND	1.21	40.85	74.18	3,000	315.00/M	ECH-U1H682GB5
	50	.0082	1.0	PCF1112CT-ND◆	1.24	41.99	76.25	3,000	308.00/M	ECH-U1H822GB5
	50	.01	1.0	PCF1113CT-ND◆	1.28	43.13	78.32	3,000	317.00/M	ECH-U1H103GB5
1210 (3225)	50	.012	1.0	PCF1114CT-ND◆	1.30	43.89	79.70	2,000	315.00/M	ECH-U1H123GB5
	50	.015	1.0	PCF1115CT-ND	1.34	45.22	82.11	2,000	349.00/M	ECH-U1H153GB5
	50	.018	1.4	PCF1116CT-ND	1.38	46.55	84.53	2,000	355.00/M	ECH-U1H183GB5
	50	.022	1.4	PCF1117CT-ND◆	1.27	45.72	83.82	2,000	354.00/M	ECH-U1H223GB5
	50	.027	1.4	PCF1118CT-ND◆	1.33	47.88	87.78	2,000	358.00/M	ECH-U1H273GB5
	50	.033	2.0	PCF1119CT-ND◆	1.39	50.04	91.74	2,000	374.00/M	ECH-U1H333GB5
	50	.039	2.0	PCF1120CT-ND◆	1.46	52.38	96.03	2,000	392.00/M	ECH-U1H393GB5
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN										
0805 (2012)	16	.0033	0.8	PCF1070CT-ND◆	.81	26.00	46.80	3,000	195.00/M	ECH-U1C332JB5
	16	.0039	0.8	PCF1071CT-ND	.81	26.00	46.80	3,000	195.00/M	ECH-U1C392JB5
	16	.0047	0.8	PCF1072CT-ND	.81	26.00	46.80	3,000	195.00/M	ECH-U1C472JB5
	16	.0056	0.8	PCF1073CT-ND	.81	26.00	46.80	3,000	195.00/M	ECH-U1C562JB5
	16	.0068	0.8	PCF1074CT-ND	.81	26.00	46.80	3,000	195.00/M	ECH-U1C682JB5
	16	.0082	1.0	PCF1075CT-ND	.81	26.00	46.80	3,000	195.00/M	ECH-U1C822JB5
	16	.01	1.0	PCF1076CT-ND	.85	25.63	44.86	3,000	189.00/M	ECH-U1C103JB5
1206 (3216)	16	.012	0.8	PCF1077CT-ND	.86	27.40	49.32	3,000	196.00/M	ECH-U1C123JB5
	16	.015	0.8	PCF1078CT-ND◆	.89	28.40	51.12	3,000	206.00/M	ECH-U1C153JB5
	16	.018	0.8	PCF1079CT-ND	.89	28.40	51.12	3,000	206.00/M	ECH-U1C183JB5
	16	.022	0.8	PCF1080CT-ND	.96	30.60	55.08	3,000	232.00/M	ECH-U1C223JB5
	16	.027	1.0	PCF1081CT-ND	.98	31.40	56.52	3,000	232.00/M	ECH-U1C273JB5
	16	.033	1.0	PCF1082CT-ND	1.01	32.40	58.32	3,000	234.00/M	ECH-U1C333JB5
	16	.039	1.4	PCF1083CT-ND	1.06	33.80	60.84	2,000	237.00/M	ECH-U1C393JB5
	16	.047	1.4	PCF1084CT-ND	.92	29.48	53.06	2,000	243.00/M	ECH-U1C473JB5
1210 (3225)	16	.056	1.4	PCF1085CT-ND◆	1.10	37.24	67.62	2,000	268.00/M	ECH-U1C563JB5
	16	.068	1.4	PCF1086CT-ND	1.18	39.90	72.45	2,000	263.00/M	ECH-U1C683JB5
	16	.082	2.0	PCF1087CT-ND◆	1.27	42.94	77.97	2,000	315.00/M	ECH-U1C823JB5
	16	.10	2.0	PCF1088CT-ND◆	1.34	45.41	82.46	2,000	334.00/M	ECH-U1C104JB5
0805 (2012)	50	.0001	0.8	PCF1000CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H101JB5
	50	.00012	0.8	PCF1001CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H121JB5
	50	.00015	0.8	PCF1002CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H151JB5
	50	.00018	0.8	PCF1003CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H181JB5
	50	.00022	0.8	PCF1004CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H221JB5
	50	.00027	0.8	PCF1005CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H271JB5
	50	.00033	0.8	PCF1006CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H331JB5
	50	.00039	0.8	PCF1007CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H391JB5
	50	.00047	0.8	PCF1008CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H471JB5
	50	.00056	0.8	PCF1009CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H561JB5
	50	.00068	0.8	PCF1010CT-ND◆	.83	26.60	47.88	3,000	205.00/M	ECH-U1H681JB5
	50	.00082	0.8	PCF1011CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H821JB5
	50	.001	0.8	PCF1012CT-ND◆	.84	25.27	44.23	3,000	186.00/M	ECH-U1H102JB5
	50	.0012	0.8	PCF1013CT-ND◆	.83	26.60	47.88	3,000	193.00/M	ECH-U1H122JB5
	50	.0015	0.8	PCF1014CT-ND◆	.83	26.60	47.88	3,000	193.00/M	ECH-U1H152JB5
	50	.0018	0.8	PCF1015CT-ND	.83	26.60	47.88	3,000	193.00/M	ECH-U1H182JB5
	50	.0022	0.8	PCF1016CT-ND◆	.82	24.70	43.22	3,000	182.00/M	ECH-U1H222JB5
	50	.0027	0.8	PCF1017CT-ND	.83	26.60	47.88	3,000	205.00/M	ECH-U1H272JB5

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant*** *(Continued)*

ECH-U(B) Series *(Cont.)*

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
1206 (3216)	50	.0033	0.8	PCF1018CT-ND◆	.98	31.20	56.16	3,000	204.00/M	ECH-U1H332JB5
	50	.0039	0.8	PCF1019CT-ND	1.00	32.00	57.60	3,000	204.00/M	ECH-U1H392JB5
	50	.0047	0.8	PCF1020CT-ND◆	1.03	33.00	59.40	3,000	234.00/M	ECH-U1H472JB5
	50	.0056	0.8	PCF1021CT-ND	1.06	33.80	60.84	3,000	248.00/M	ECH-U1H562JB5
	50	.0068	0.8	PCF1022CT-ND	1.09	34.80	62.64	3,000	243.00/M	ECH-U1H682JB5
	50	.0082	1.0	PCF1023CT-ND	1.11	35.40	63.72	3,000	248.00/M	ECH-U1H822JB5
	50	.01	1.0	PCF1024CT-ND	1.04	34.96	63.48	3,000	253.00/M	ECH-U1H103JB5
1210 (3225)	50	.012	1.0	PCF1025CT-ND	1.06	35.72	64.86	2,000	264.00/M	ECH-U1H123JB5
	50	.015	1.0	PCF1026CT-ND	1.09	36.67	66.59	2,000	266.00/M	ECH-U1H153JB5
	50	.018	1.4	PCF1027CT-ND	1.11	37.62	68.31	2,000	271.00/M	ECH-U1H183JB5
	50	.022	1.4	PCF1028CT-ND	1.15	38.95	70.73	2,000	273.00/M	ECH-U1H223JB5
	50	.027	1.4	PCF1029CT-ND	1.20	40.47	73.49	2,000	297.00/M	ECH-U1H273JB5
	50	.033	2.0	PCF1030CT-ND◆	1.09	35.02	63.04	2,000	281.00/M	ECH-U1H333JB5
	50	.039	2.0	PCF1031CT-ND	1.32	44.46	80.73	2,000	347.00/M	ECH-U1H393JB5

ECH-U(C) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC, 100VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECH-U(C) (High Grade Type) 2% Tolerance Reflow/Flow										
1913 (4833)	50	.056	2.0	PCF1163CT-ND◆	.79	25.25	45.46	3,000	189.00/M	ECH-U1H563GC9
	50	.068	2.0	PCF1164CT-ND◆	.84	26.78	48.21	3,000	201.00/M	ECH-U1H683GC9
	50	.082	2.4	PCF1165CT-ND◆	.93	29.62	53.31	—	—	ECH-U1H823GC9
2416 (6041)	50	.12	1.8	PCF1167CT-ND◆	1.13	38.13	69.23	—	—	ECH-U1H124GC9
	50	.15	2.4	PCF1168CT-ND	1.15	41.33	75.78	—	—	ECH-U1H154GC9
1913 (4833)	100	.01	1.4	PCF1494CT-ND◆	1.11	37.49	68.07	3,000	286.00/M	ECH-U1103GC9
	100	.012	1.4	PCF1495CT-ND	1.11	37.49	68.07	3,000	286.00/M	ECH-U1123GC9
	100	.015	2.0	PCF1496CT-ND	1.11	37.49	68.07	3,000	286.00/M	ECH-U1153GC9
	100	.018	2.0	PCF1497CT-ND	1.11	37.49	68.07	3,000	286.00/M	ECH-U1183GC9
	100	.022	2.4	PCF1498CT-ND	1.22	41.36	75.11	2,000	316.00/M	ECH-U1223GC9
	100	.027	2.8	PCF1499CT-ND◆	1.26	42.64	77.42	2,000	325.00/M	ECH-U1273GC9
2416 (6041)	100	.033	1.8	PCF1500CT-ND	1.33	47.75	87.55	3,000	371.00/M	ECH-U1333GC9
	100	.039	2.0	PCF1501CT-ND	1.36	48.85	89.56	3,000	380.00/M	ECH-U1393GC9
	100	.047	2.4	PCF1502CT-ND	1.43	51.43	94.28	2,000	400.00/M	ECH-U1473GC9
	100	.056	2.8	PCF1503CT-ND	1.46	52.63	96.49	2,000	409.00/M	ECH-U1563GC9
	100	.068	3.2	PCF1504CT-ND◆	1.56	56.30	103.22	2,000	438.00/M	ECH-U1683GC9
2820 (7150)	100	.082	2.8	PCF1505CT-ND	1.97	70.99	130.15	1,500	592.00/M	ECH-U1823GC9
	100	.10	3.0	PCF1506CT-ND◆	1.97	70.99	130.15	1,500	592.00/M	ECH-U1104GC9
	100	.12	3.4	PCF1507CT-ND	2.06	74.07	135.80	1,500	617.00/M	ECH-U1124GC9
2825 (7163)	100	.15	3.4	PCF1508CT-ND◆	2.26	81.29	149.03	1,000	677.00	ECH-U1154GCV
	100	.18	4.0	PCF1509CT-ND	2.07	79.47	151.38	1,000	706.00	ECH-U1184GCV
	100	.22	4.8	PCF1510CT-ND◆	2.26	86.75	165.24	1,000	771.00	ECH-U1224GCV
ECH-U(C) (High Grade Type) 5% Tolerance Reflow/Flow										
1913 (4833)	50	.056	2.0	PCF1154CT-ND◆	.75	24.12	43.42	—	—	ECH-U1H563JC9
2416 (6041)	50	.12	1.8	PCF1158CT-ND◆	1.08	36.33	65.97	—	—	ECH-U1H124JC9
	50	.18	2.8	PCF1160CT-ND◆	1.44	51.67	94.73	2,000	402.00/M	ECH-U1H184JC9
1913 (4833)	100	.01	1.4	PCF1477CT-ND◆	1.11	35.36	63.65	3,000	265.00/M	ECH-U1103JC9
	100	.012	1.4	PCF1478CT-ND	1.11	35.36	63.65	3,000	265.00/M	ECH-U1123JC9
	100	.015	2.0	PCF1479CT-ND	1.11	35.36	63.65	3,000	265.00/M	ECH-U1153JC9
	100	.018	2.0	PCF1480CT-ND	1.11	35.36	63.65	3,000	265.00/M	ECH-U1183JC9
	100	.022	2.4	PCF1481CT-ND	1.03	34.90	63.38	2,000	266.00/M	ECH-U1223JC9
	100	.027	2.8	PCF1482CT-ND	1.07	36.18	65.69	2,000	276.00/M	ECH-U1273JC9
2416 (6041)	100	.033	1.8	PCF1483CT-ND◆	1.26	42.64	77.42	3,000	325.00/M	ECH-U1333JC9
	100	.039	2.0	PCF1484CT-ND	1.32	44.57	80.94	3,000	340.00/M	ECH-U1393JC9
	100	.047	2.4	PCF1485CT-ND	1.38	46.51	84.46	2,000	355.00/M	ECH-U1473JC9
	100	.056	2.8	PCF1486CT-ND	1.40	47.16	85.63	2,000	360.00/M	ECH-U1563JC9
	100	.068	3.2	PCF1487CT-ND	1.29	46.51	85.27	2,000	362.00/M	ECH-U1683JC9
2820 (7150)	100	.082	2.8	PCF1488CT-ND	1.77	63.67	116.72	1,500	531.00/M	ECH-U1823JC9
	100	.10	3.0	PCF1489CT-ND	1.84	66.11	121.21	1,500	551.00/M	ECH-U1104JC9
	100	.12	3.4	PCF1490CT-ND	1.85	66.71	122.30	1,500	556.00/M	ECH-U1124JC9
2825 (7163)	100	.15	3.4	PCF1491CT-ND	2.01	72.34	132.63	1,000	603.00	ECH-U1154JCV
	100	.18	4.0	PCF1492CT-ND	2.22	79.81	146.32	1,000	665.00	ECH-U1184JCV
	100	.22	4.8	PCF1493CT-ND◆	2.41	86.67	158.90	1,000	722.00	ECH-U1224JCV

ECH-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 10VDC, 16VDC, 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Reflow Soldering Conditions: 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					1	50	100	Qty.	Pricing	
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only										
0603 (1608)	10	.0033	0.7	PCF1523CT-ND◆	.57	17.00	29.75	4,000	100.00/M	ECH-U01332GX5
	10	.0039	0.7	PCF1524CT-ND	.57	17.00	29.75	4,000	98.00/M	ECH-U01392GX5
	10	.0047	0.7	PCF1525CT-ND◆	.57	17.00	29.75	—	—	ECH-U01472GX5
	10	.0056	0.7	PCF1526CT-ND	.57	17.00	29.75	4,000	98.00/M	ECH-U01562GX5
	16	.0001	0.7	PCF1441CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C101GX5
	16	.00012	0.7	PCF1442CT-ND	.61	18.43	32.26	4,000	110.00/M	ECH-U1C121GX5
	16	.00015	0.7	PCF1443CT-ND	.61	18.43	32.26	4,000	112.00/M	ECH-U1C151GX5
	16	.00018	0.7	PCF1444CT-ND	.61	18.43	32.26	4,000	110.00/M	ECH-U1C181GX5
	16	.00022	0.7	PCF1445CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C221GX5
	16	.00027	0.7	PCF1446CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C271GX5
	16	.00033	0.7	PCF1447CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C331GX5
	16	.00039	0.7	PCF1448CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C391GX5
	16	.00047	0.7	PCF1449CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C471GX5
	16	.00056	0.7	PCF1450CT-ND	.61	18.43	32.26	4,000	110.00/M	ECH-U1C561GX5
	16	.00068	0.7	PCF1451CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C681GX5
	16	.00082	0.7	PCF1452CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C821GX5
	16	.001	0.7	PCF1453CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C102GX5
	16	.0012	0.7	PCF1454CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C122GX5
	16	.0015	0.7	PCF1455CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C152GX5
	16	.0018	0.7	PCF1456CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C182GX5
	16	.0022	0.7	PCF1457CT-ND◆	.61	18.43	32.26	4,000	112.00/M	ECH-U1C222GX5
	16	.0027	0.7	PCF1458CT-ND◆	.61	18.43	32.26	4,000	110.00/M	ECH-U1C272GX5
0805 (2012)	10	.0068	0.9	PCF1527CT-ND	.57	17.00	29.75	3,000	105.00/M	ECH-U01682GX5
	10	.0082	0.9	PCF1528CT-ND	.57	17.00	29.75	3,000	115.00/M	ECH-U01822GX5
	10	.01	0.9	PCF1529CT-ND◆	.57	17.00	29.75	3,000	105.00/M	ECH-U01103GX5
	10	.012	0.9	PCF1530CT-ND	.69	20.60	36.05	3,000	127.00/M	ECH-U01123GX5
	10	.018	0.9	PCF1532CT-ND	.69	20.60	36.05	3,000	139.00/M	ECH-U01183GX5
	10	.027	1.1	PCF1534CT-ND◆	.75	22.51	39.40	3,000	139.00/M	ECH-U01273GX5
	16	.0033	0.9	PCF1171CT-ND◆	.71	21.34	37.34	3,000	119.00/M	ECH-U1C332GX5
	16	.0039	0.9	PCF1172CT-ND◆	.71	21.34	37.34	3,000	132.00/M	ECH-U1C392GX5
	16	.0047	0.9	PCF1173CT-ND◆	.71	21.34	37.34	3,000	119.00/M	ECH-U1C472GX5
	16	.0056	0.9	PCF1174CT-ND◆	.71	21.34	37.34	3,000	132.00/M	ECH-U1C562GX5
	16	.0068	0.9	PCF1175CT-ND	.71	21.34	37.34	3,000	119.00/M	ECH-U1C682GX5
	16	.0082	1.1	PCF1176CT-ND◆	.78	23.47	41.08	3,000	145.00/M	ECH-U1C822GX5
	16	.01	1.1	PCF1177CT-ND◆	.78	23.47	41.08	3,000	130.00/M	ECH-U1C103GX5
1206 (3216)	16	.012	0.9	PCF1178CT-ND	.86	25.87	45.28	3,000	160.00/M	ECH-U1C123GX5
	16	.015	0.9	PCF1179CT-ND◆	.86	25.87	45.28	3,000	144.00/M	ECH-U1C153GX5
	16	.018	0.9	PCF1180CT-ND◆	.86	25.87	45.28	3,000	160.00/M	ECH-U1C183GX5
	16	.022	0.9	PCF1181CT-ND◆	.86	25.87	45.28	3,000	144.00/M	ECH-U1C223GX5
	16	.027	1.1	PCF1182CT-ND◆	.94	28.27	49.48	3,000	175.00/M	ECH-U1C273GX5
	16	.033	1.1	PCF1183CT-ND◆	.94	28.27	49.48	3,000	157.00/M	ECH-U1C333GX5
	16	.039	1.5	PCF1184CT-ND	1.02	30.67	53.68	2,000	190.00/M	ECH-U1C393GX5
	16	.047	1.5	PCF1185CT-ND◆	1.02	30.67	53.68	2,000	170.00/M	ECH-U1C473GX5
1210 (3225)	16	.056	1.5	PCF1186CT-ND◆	.92	29.32	52.78	2,000	204.00/M	ECH-U1C563GX5
	16	.068	1.5	PCF1187CT-ND◆	.92	29.32	52.78	2,000	196.00/M	ECH-U1C683GX5
	16	.082	2.1	PCF1188CT-ND◆	1.10	35.32	63.58	2,000	246.00/M	ECH-U1C823GX5
	16	.10	2.1	PCF1189CT-ND◆	1.10	35.32	63.58	2,000	221.00/M	ECH-U1C104GX5
0805 (2012)	50	.0001	0.9	PCF1284CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H101GX5
	50	.00012	0.9	PCF1285CT-ND	.68	20.47	35.83	3,000	117.00/M	ECH-U1H121GX5
	50	.00015	0.9	PCF1286CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H151GX5
	50	.00018	0.9	PCF1287CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H181GX5
	50	.00022	0.9	PCF1288CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H221GX5
	50	.00027	0.9	PCF1289CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H271GX5
	50	.00033	0.9	PCF1290CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H331GX5
	50	.00039	0.9	PCF1291CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H391GX5
	50	.00047	0.9	PCF1292CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H471GX5
	50	.00056	0.9	PCF1293CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H561GX5
	50	.00068	0.9	PCF1294CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H681GX5
	50	.00082	0.9	PCF1295CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H821GX5
	50	.001	0.9	PCF1296CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H102GX5
	50	.0012	0.9	PCF1297CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H122GX5
	50	.0015	0.9	PCF1298CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H152GX5
	50	.0018	0.9	PCF1299CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H182GX5
	50	.0022	0.9	PCF1300CT-ND◆	.68	20.47	35.83	3,000	118.00/M	ECH-U1H222GX5
	50	.0027	0.9	PCF1301CT-ND◆	.68	20.47	35.83	3,000	117.00/M	ECH-U1H272GX5
1206 (3216)	50	.0033	0.9	PCF1302CT-ND◆	.86	25.87	45.28	3,000	133.00/M	ECH-U1H332GX5
	50	.0039	0.9	PCF1303CT-ND◆	.86	25.87	45.28	3,000	148.00/M	ECH-U1H392GX5
	50	.0047	0.9	PCF1304CT-ND◆	.86	25.87	45.28	3,000	133.00/M	ECH-U1H472GX5
	50	.0056	0.9	PCF1305CT-ND◆	.86	25.87	45.28	3,000	148.00/M	ECH-U1H562GX5
	50	.0068	0.9	PCF1306CT-ND◆	.86	25.87	45.28	3,000	133.00/M	ECH-U1H682GX5
	50	.0082	1.1	PCF1307CT-ND◆	.94	28.27	49.48	3,000	162.00/M	ECH-U1H822GX5
	50	.01	1.1	PCF1308CT-ND◆	.94	28.27	49.48	3,000	146.00/M	ECH-U1H103GX5
1210 (3225)	50	.012	1.1	PCF1309CT-ND◆	.94	28.27	49.48	2,000	162.00/M	ECH-U1H123GX5
	50	.015	1.1	PCF1310CT-ND◆	.94	28.27	49.48	2,000	146.00/M	ECH-U1H153GX5
	50	.018	1.5	PCF1311CT-ND◆	1.02	30.67	53.68	2,000	176.00/M	ECH-U1H183GX5

‡ For Tape and Reel part number change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

Panasonic® SMT Capacitors ECW-U and ECH-U – ECH-U(X) Series *(Cont.)*

Digi-Reel®

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
1210 (3225)	50	.022	1.5	PCF1312CT-ND◆	1.02	30.67	53.68	2,000	158.00/M	ECH-U1H223GX5
	50	.027	1.5	PCF1313CT-ND◆	1.02	30.67	53.68	2,000	176.00/M	ECH-U1H273GX5
	50	.033	2.1	PCF1314CT-ND◆	.92	29.32	52.78	2,000	181.00/M	ECH-U1H333GX5
	50	.039	2.1	PCF1315CT-ND◆	.92	29.32	52.78	2,000	202.00/M	ECH-U1H393GX5
1913 (4833)	50	.047	1.5	PCF1548CT-ND◆	.91	29.10	52.38	3,000	202.00/M	ECH-U1H473GX9
	50	.056	1.5	PCF1549CT-ND◆	.97	30.94	55.69	3,000	215.00/M	ECH-U1H563GX9
	50	.068	1.5	PCF1550CT-ND◆	1.03	32.82	59.08	3,000	228.00/M	ECH-U1H683GX9
	50	.082	2.1	PCF1551CT-ND◆	1.02	34.49	62.62	3,000	252.00/M	ECH-U1H823GX9
	50	.10	2.1	PCF1552CT-ND◆	1.13	38.02	69.03	3,000	269.00/M	ECH-U1H104GX9
2416 (6041)	50	.12	1.9	PCF1553CT-ND◆	1.38	46.65	84.70	3,000	330.00/M	ECH-U1H124GX9
	50	.15	1.9	PCF1554CT-ND◆	1.40	50.47	92.53	3,000	363.00/M	ECH-U1H154GX9
	50	.18	2.5	PCF1555CT-ND◆	1.60	57.58	105.57	2,000	415.00/M	ECH-U1H184GX9
	50	.22	2.8	PCF1556CT-ND◆	1.81	65.32	119.76	2,000	471.00/M	ECH-U1H224GX9
ECH-U(X) (High Grade Type) 5% Tolerance, Reflow Only										
0603 (1608)	10	.0033	0.7	PCF1511CT-ND	.54	16.05	28.09	4,000	94.00/M	ECH-U01332JX5
	10	.0039	0.7	PCF1512CT-ND	.54	16.05	28.09	4,000	93.00/M	ECH-U01392JX5
	10	.0056	0.7	PCF1514CT-ND	.54	16.05	28.09	4,000	93.00/M	ECH-U01562JX5
	16	.0001	0.7	PCF1459CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C101JX5
	16	.00012	0.7	PCF1460CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C121JX5
	16	.00015	0.7	PCF1461CT-ND	.59	17.69	30.95	4,000	106.00/M	ECH-U1C151JX5
	16	.00018	0.7	PCF1462CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C181JX5
	16	.00022	0.7	PCF1463CT-ND	.59	17.69	30.95	4,000	106.00/M	ECH-U1C221JX5
	16	.00027	0.7	PCF1464CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C271JX5
	16	.00033	0.7	PCF1465CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C331JX5
	16	.00039	0.7	PCF1466CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C391JX5
	16	.00047	0.7	PCF1467CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C471JX5
	16	.00056	0.7	PCF1468CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C561JX5
	16	.00068	0.7	PCF1469CT-ND	.59	17.69	30.95	4,000	106.00/M	ECH-U1C681JX5
	16	.00082	0.7	PCF1470CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C821JX5
	16	.001	0.7	PCF1471CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C102JX5
	16	.0012	0.7	PCF1472CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C122JX5
	16	.0015	0.7	PCF1473CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C152JX5
	16	.0018	0.7	PCF1474CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C182JX5
	16	.0022	0.7	PCF1475CT-ND◆	.59	17.69	30.95	4,000	106.00/M	ECH-U1C222JX5
	16	.0027	0.7	PCF1476CT-ND	.59	17.69	30.95	4,000	119.00/M	ECH-U1C272JX5
0805 (2012)	10	.0068	0.9	PCF1515CT-ND	.54	16.05	28.09	3,000	99.00/M	ECH-U01682JX5
	10	.0082	0.9	PCF1516CT-ND	.54	16.05	28.09	3,000	108.00/M	ECH-U01822JX5
	10	.01	0.9	PCF1517CT-ND◆	.54	16.05	28.09	3,000	99.00/M	ECH-U01103JX5
	10	.012	0.9	PCF1518CT-ND	.66	19.65	34.39	3,000	133.00/M	ECH-U01123JX5
	10	.015	0.9	PCF1519CT-ND	.66	19.65	34.39	—	—	ECH-U01153JX5
	10	.018	0.9	PCF1520CT-ND	.66	19.65	34.39	3,000	133.00/M	ECH-U01183JX5
	10	.022	1.1	PCF1521CT-ND◆	.66	19.65	34.39	3,000	109.00/M	ECH-U01223JX5
	10	.027	1.1	PCF1522CT-ND	.72	21.55	37.71	3,000	133.00/M	ECH-U01273JX5
	16	.0033	0.9	PCF1190CT-ND◆	.67	20.16	35.28	3,000	126.00/M	ECH-U1C332JX5
	16	.0039	0.9	PCF1191CT-ND◆	.67	20.16	35.28	3,000	125.00/M	ECH-U1C392JX5
	16	.0047	0.9	PCF1192CT-ND◆	.67	20.16	35.28	3,000	126.00/M	ECH-U1C472JX5
	16	.0056	0.9	PCF1193CT-ND	.67	20.16	35.28	3,000	125.00/M	ECH-U1C562JX5
	16	.0068	0.9	PCF1194CT-ND◆	.67	20.16	35.28	3,000	126.00/M	ECH-U1C682JX5
	16	.0082	1.1	PCF1195CT-ND	.75	22.56	39.48	3,000	140.00/M	ECH-U1C822JX5
	16	.01	1.1	PCF1196CT-ND◆	.75	22.56	39.48	3,000	125.00/M	ECH-U1C103JX5
	16	.012	0.9	PCF1197CT-ND◆	.82	24.65	43.13	3,000	153.00/M	ECH-U1C123JX5
1206 (3216)	16	.015	0.9	PCF1198CT-ND◆	.82	24.65	43.13	3,000	137.00/M	ECH-U1C153JX5
	16	.018	0.9	PCF1199CT-ND	.82	24.65	43.13	3,000	153.00/M	ECH-U1C183JX5
	16	.022	0.9	PCF1200CT-ND◆	.82	24.65	43.13	3,000	137.00/M	ECH-U1C223JX5
	16	.027	1.1	PCF1201CT-ND◆	.90	27.05	47.33	3,000	167.00/M	ECH-U1C273JX5
	16	.033	1.1	PCF1202CT-ND◆	.90	27.05	47.33	3,000	150.00/M	ECH-U1C333JX5
	16	.039	1.5	PCF1203CT-ND	.97	29.18	51.07	2,000	181.00/M	ECH-U1C393JX5
	16	.047	1.5	PCF1204CT-ND◆	.97	29.18	51.07	2,000	162.00/M	ECH-U1C473JX5
1210 (3225)	16	.056	1.5	PCF1205CT-ND	.88	28.06	50.51	2,000	195.00/M	ECH-U1C563JX5
	16	.068	1.5	PCF1206CT-ND◆	.88	28.06	50.51	2,000	187.00/M	ECH-U1C683JX5
	16	.082	2.1	PCF1207CT-ND◆	1.05	33.58	60.44	2,000	234.00/M	ECH-U1C823JX5
	16	.10	2.1	PCF1208CT-ND◆	1.05	33.58	60.44	2,000	210.00/M	ECH-U1C104JX5
0805 (2012)	50	.0001	0.9	PCF1316CT-ND	.64	19.25	33.68	3,000	111.00/M	ECH-U1H101JX5
	50	.00012	0.9	PCF1317CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H121JX5
	50	.00015	0.9	PCF1318CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H151JX5
	50	.00018	0.9	PCF1319CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H181JX5
	50	.00022	0.9	PCF1320CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H221JX5
	50	.00027	0.9	PCF1321CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H271JX5
	50	.00033	0.9	PCF1322CT-ND	.64	19.25	33.68	3,000	111.00/M	ECH-U1H331JX5
	50	.00039	0.9	PCF1323CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H391JX5
	50	.00047	0.9	PCF1324CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H471JX5
	50	.00056	0.9	PCF1325CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H561JX5
	50	.00068	0.9	PCF1326CT-ND	.64	19.25	33.68	3,000	111.00/M	ECH-U1H681JX5
	50	.00082	0.9	PCF1327CT-ND	.64	19.25	33.68	3,000	124.00/M	ECH-U1H821JX5
	50	.001	0.9	PCF1328CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H102JX5
	50	.0012	0.9	PCF1329CT-ND◆	.64	19.25	33.68	3,000	124.00/M	ECH-U1H122JX5
	50	.0015	0.9	PCF1330CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H152JX5
	50	.0018	0.9	PCF1331CT-ND◆	.64	19.25	33.68	3,000	124.00/M	ECH-U1H182JX5
	50	.0022	0.9	PCF1332CT-ND◆	.64	19.25	33.68	3,000	111.00/M	ECH-U1H222JX5
	50	.0027	0.9	PCF1333CT-ND◆	.64	19.25	33.68	3,000	124.00/M	ECH-U1H272JX5
1206 (3216)	50	.0033	0.9	PCF1334CT-ND◆	.82	24.65	43.13	3,000	127.00/M	ECH-U1H332JX5
	50	.0039	0.9	PCF1335CT-ND	.82	24.65	43.13	3,000	141.00/M	ECH-U1H392JX5
	50	.0047	0.9	PCF1336CT-ND◆	.82	24.65	43.13	3,000	127.00/M	ECH-U1H472JX5
	50	.0056	0.9	PCF1337CT-ND	.82	24.65	43.13	3,000	141.00/M	ECH-U1H562JX5
	50	.0068	0.9	PCF1338CT-ND◆	.82	24.65	43.13	3,000	127.00/M	ECH-U1H682JX5
	50	.0082	1.1	PCF1339CT-ND	.90	27.05	47.33	3,000	155.00/M	ECH-U1H822JX5
	50	.01	1.1	PCF1340CT-ND◆	.90	27.05	47.33	3,000	139.00/M	ECH-U1H103JX5
1210 (3225)	50	.012	1.1	PCF1341CT-ND	.90	27.05	47.33	2,000	155.00/M	ECH-U1H123JX5
	50	.015	1.1	PCF1342CT-ND◆	.96	28.80	50.40	2,000	139.00/M	ECH-U1H153JX5
	50	.018	1.5	PCF1343CT-ND◆	.97	29.18	51.07	2,000	167.00/M	ECH-U1H183JX5
	50	.022	1.5	PCF1344CT-ND◆	.97	29.18	51.07	2,000	150.00/M	ECH-U1H223JX5
	50	.027	1.5	PCF1345CT-ND◆	.97	29.18	51.07	2,000	167.00/M	ECH-U1H273JX5
	50	.033	2.1	PCF1346CT-ND	.88	28.06	50.51	2,000	173.00/M	ECH-U1H333JX5
	50	.039	2.1	PCF1347CT-ND	.88	28.06	50.51	2,000	193.00/M	ECH-U1H393JX5
1913 (4833)	50	.047	1.5	PCF1557CT-ND	.87	27.68	49.82	3,000	205.00/M	ECH-U1H473JX9
	50	.056	1.5	PCF1558CT-ND	.92	29.56	53.21	3,000	205.00/M	ECH-U1H563JX9
	50	.068	1.5	PCF1559CT-ND	.97	31.18	56.12	3,000	217.00/M	ECH-U1H683JX9
	50	.082	2.1	PCF1560CT-ND	1.08	34.68	62.42	3,000	241.00/M	ECH-U1H823JX9
	50	.10	2.1	PCF1561CT-ND	1.06	35.82	65.03	3,000	262.00/M	ECH-U1H104JX9
2416 (6041)	50	.12	1.9	PCF1562CT-ND	1.32	44.44	80.70	3,000	314.00/M	ECH-U1H124JX9
	50	.15	1.9	PCF1563CT-ND	1.33	47.95	87.91	3,000	358.00/M	ECH-U1H154JX9
	50	.18	2.5	PCF1564CT-ND	1.75	63.09	115.67	2,000	501.00/M	ECH-U1H184JX9
	50	.22	2.8	PCF1565CT-ND	1.73	62.39	114.38	2,000	450.00/M	ECH-U1H224JX9

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Panasonic® SMT Capacitors ECP-U (SF Submicron)

RoHS COMPLIANT

Digi-Reel®

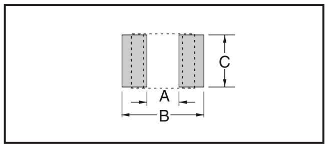

FEATURES: • Small in size • Low ESR • Excellent sound quality

APPLICATIONS: • Coupling • Decoupling • Noise Reduction

SPECIFICATIONS: • Operating Temperature: -40°C ~ 85°C • Dissipation Factor: 1.5% maximum (20°C, 1kHz) • Withstand Voltage: Between terminals rated voltage (VDC) x 175%, 1 to 5s • Insulation Resistance: C≤0.33µF: 1000MΩ minimum (20°C, 16VDC, 60s), C>0.33µF: 300MΩ minimum (20°C, 16VDC, 60s) • Soldering Reflow Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Note: Solder paste/flux shall have less than 0.1wt% halogen content.

Storage: The unpacked products shall be kept in polyethylene bag together with well-dried silica-gel (from 5g to 10g) or be kept in storage at a temperature of 25°C, with a humidity less than 50% RH. This capacitor shall be used in only reflow method. Don't use in flow, dipping, or VPS soldering method.

A recommended solder paste thickness is between 0.10 (mm) and 0.15 (mm).

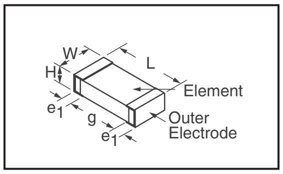

Type / Case Size	Dimensions of Land – mm A	B	C
J2 (0805)	0.8	2.4	1.1
H1-H2-H3 (1206)	1.8	3.6	1.4
G2 (1210)	1.8	3.6	2.3

Case Size	WV DC	Cap. µF	Dimensions – mm L	W	H	e1	g	Type	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
ECP-U (A) Type — 20% Tolerance																
0805 (2012)	16	0.10	2.0	1.25	1.0	0.45 ± 0.25	0.6min.	J2	PCF1126CT-ND	.70	21.12	36.96	PCF1126TR-ND	3,000	137.00/M	ECP-U1C104MA5
1206 (3216)	16	0.15	3.2	1.6	0.8	0.65 ± 0.3	1.0min.	H1	PCF1127CT-ND	.84	25.20	44.10	PCF1127TR-ND	3,000	165.00/M	ECP-U1C154MA5
	16	0.22	3.2	1.6	0.8	0.65 ± 0.3	1.0min.	H1	PCF1128CT-ND	.98	29.52	51.66	PCF1128TR-ND	3,000	192.00/M	ECP-U1C224MA5
	16	0.33	3.2	1.6	1.0	0.65 ± 0.3	1.0min.	H2	PCF1129CT-ND	.98	29.52	51.66	PCF1129TR-ND	3,000	192.00/M	ECP-U1C334MA5
	16	0.47	3.2	1.6	1.4	0.65 ± 0.3	1.0min.	H3	PCF1130CT-ND	.88	28.00	50.40	PCF1130TR-ND	2,000	206.00/M	ECP-U1C474MA5
	16	0.68	3.2	1.6	1.4	0.65 ± 0.3	1.0min.	H3	PCF1131CT-ND	.88	28.00	50.40	PCF1131TR-ND	2,000	206.00/M	ECP-U1C684MA5
1210 (3225)	16	1.0	3.2	2.5	1.4	0.65 ± 0.3	1.0min.	G2	PCF1132CT-ND	.98	31.20	56.16	PCF1132TR-ND	2,000	230.00/M	ECP-U1C105MA5

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® M-Series Polyester and Foil Capacitors

Features:
High insulation resistance. Non-inductive construction: with tinned copper leads welded to the foils. High peak current capability. Solvent-resistant resin coated body.

Applications:
Blocking, by-pass and coupling of D.C. and signals to VHF range. Pulse, logic and timing circuits. Light-duty pulse forming networks. Filter and noise suppression circuits. General purpose usage.

Specifications
• Reference standard: JIS C5113 Characteristic M. • Operating Temperature Range: -40°C ~ 85°C • Construction: Polyester film, non-inductive, phenolic/epoxy resin coating, wax impregnation.

Electrical Specifications:
• Capacitance Tolerance: ±10% (K). Insulation Resistance: > 10,000mΩ. • Dissipation Factor: < 1.0% @ 1KHZ. • Dielectric Withstanding Voltage: 250% of rated voltage for 5 seconds. • Operating Temperature: -40°C ~ 80°C.

PANASONIC ECQ CROSS REFERENCE

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TWR:** 601PE, 601CPE; **Pactron:** PE, FM; **Secor:** MFDN, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1808; **Wima:** FKS; CSF **Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissiei:** AMZ, AMX, AMR, AMM.

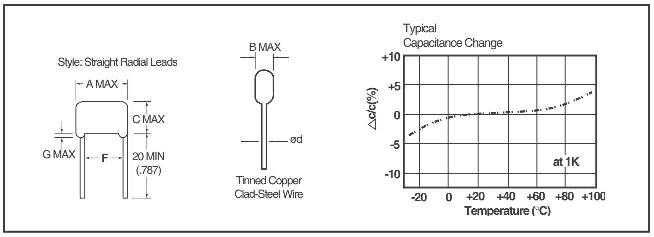

Cap. µF	Dimensions (mm) A	B	C	F±1.25	G	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
200 WV DC											
.0012	9.0	5.0	9.0	5.5	2	0.6	P1030-ND◆	.29	6.97	11.94	ECQ-M2122KZ
.0018	9.0	5.5	9.5	5.5	3	0.6	P1032-ND◆	.29	6.97	11.94	ECQ-M2182KZ
.0022	9.0	6.0	10.0	5.5	3	0.6	P1033-ND◆	.28	6.83	11.71	ECQ-M2222KZ
.0027	9.0	5.0	9.0	5.5	3	0.6	P1034-ND◆	.30	7.24	12.40	ECQ-M2272KZ
.0033	9.0	5.0	9.0	5.5	3	0.6	P1035-ND◆	.31	7.55	12.94	ECQ-M2332KZ
.0039	12.0	5.5	9.5	7.5	3	0.6	P1036-ND◆	.29	6.97	11.94	ECQ-M2392KZ
.0056	12.0	6.0	9.5	7.5	3	0.6	P1038-ND◆	.29	6.97	11.94	ECQ-M2562KZ
.0068	12.0	6.0	10.5	7.5	3	0.6	P1039-ND◆	.28	6.88	11.79	ECQ-M2682KZ
.0082	14.0	5.5	10.0	9.5	3	0.6	P1040-ND	.29	6.97	11.94	ECQ-M2822KZ
.01	14.0	6.0	10.0	9.5	3	0.6	P1041-ND◆	.32	7.83	13.43	ECQ-M2103KZ
.012	14.0	6.0	10.5	9.5	3	0.6	P1042-ND	.32	7.86	13.48	ECQ-M2123KZ
.015	14.0	6.5	11.5	9.5	3	0.6	P1043-ND	.29	7.10	12.17	ECQ-M2153KZ
.018	17.0	5.5	10.0	12.5	3	0.6	P1044-ND◆	.35	8.60	14.74	ECQ-M2183KZ
.022	17.0	5.5	11.0	12.5	3	0.6	P1045-ND◆	.36	8.75	15.00	ECQ-M2223KZ
.027	17.0	6.0	11.0	12.5	3	0.6	P1046-ND◆	.33	7.95	13.64	ECQ-M2273KZ
.033	17.0	6.5	11.5	12.5	3	0.6	P1047-ND◆	.35	8.46	14.51	ECQ-M2333KZ
.039	17.0	6.0	13.5	12.5	3	0.6	P1048-ND	.42	10.13	17.36	ECQ-M2393KZ
.047	17.0	6.5	14.0	12.5	3	0.6	P1049-ND◆	.37	9.00	15.43	ECQ-M2473KZ
.056	20.0	6.5	14.0	14.5	3	0.6	P1050-ND	.39	9.59	16.44	ECQ-M2563KZ
.068	20.0	7.0	14.5	14.5	3	0.6	P1051-ND◆	.42	10.13	17.36	ECQ-M2683KZ
.082	20.0	7.5	15.0	15.0	3	0.6	P1052-ND	.43	10.37	17.77	ECQ-M2823KZ
.1	20.0	8.0	17.0	15.0	3	0.6	P1053-ND◆	.48	12.76	22.23	ECQ-M2104KZ
.12	20.0	8.5	17.5	15.0	3	0.8	P1054-ND	.50	13.48	23.48	ECQ-M2124KZ
.15	20.0	9.5	18.5	15.0	3	0.8	P1055-ND◆	.48	12.89	22.46	ECQ-M2154KZ
.22	23.0	14.0	23.0	18.5	3	0.8	P1057-ND◆	.59	17.32	29.69	ECQ-M2224KZ
400 WV DC											
.0012	11.0	6.0	10.0	6.5	2	0.6	P1059-ND◆	.28	6.85	11.74	ECQ-M4122KZ
.0015	11.0	6.0	10.0	6.5	2	0.6	P1060-ND◆	.28	6.85	11.74	ECQ-M4152KZ
.0018	11.0	6.0	10.0	6.5	2	0.6	P1061-ND◆	.28	6.85	11.74	ECQ-M4182KZ
.0027	12.0	6.0	10.0	7.5	2	0.6	P1063-ND	.28	6.85	11.74	ECQ-M4272KZ
.0033	12.0	6.5	10.5	7.5	2	0.6	P1064-ND◆	.28	6.85	11.74	ECQ-M4332KZ
.0039	12.0	6.5	10.5	7.5	2	0.6	P1065-ND	.28	6.85	11.74	ECQ-M4392KZ
.0047	14.0	6.0	10.0	9.5	2	0.6	P1066-ND◆	.28	6.85	11.74	ECQ-M4472KZ
.0056	14.0	6.0	10.0	9.5	2	0.6	P1067-ND◆	.28	6.85	11.74	ECQ-M4562KZ
.0068	14.0	6.5	10.5	9.5	3	0.6	P1068-ND	.28	6.85	11.74	ECQ-M4682KZ
.0082	14.0	6.5	12.0	9.5	3	0.6	P1069-ND◆	.29	7.04	12.07	ECQ-M4822KZ
.012	17.0	6.0	12.0	12.5	3	0.6	P1071-ND◆	.31	7.42	12.71	ECQ-M4123KZ
.018	17.0	7.0	13.0	12.5	3	0.6	P1073-ND◆	.31	7.42	12.71	ECQ-M4183KZ
.022	17.0	7.5	13.5	12.5	3	0.6	P1074-ND◆	.34	8.18	14.02	ECQ-M4223KZ
.027	20.0	7.0	14.5	15.0	2	0.7	P1075-ND	.37	8.93	15.31	ECQ-M4273KZ
.047	20.0	9.0	16.5	15.0	3	0.7	P1078-ND◆	.36	9.61	16.74	ECQ-M4473KZ
.056	23.0	8.5	15.5	18.0	3	0.7	P1079-ND	.39	10.41	18.13	ECQ-M4563KZ
.068	23.0	9.0	16.5	18.0	3	0.7	P1080-ND◆	.44	11.79	20.54	ECQ-M4683KZ
.082	24.0	9.5	17.0	18.0	3	0.8	P1081-ND◆	.50	13.48	23.48	ECQ-M4823KZ

◆ ***RoHS Compliant***

Panasonic® Metallized Polyester Capacitors – ECQE(C) Type

RoHS COMPLIANT

Features:
• Box-type construction (case meets UL94V-0 flame classification, meets requirements of IEC950) • Operating Temperature Range: -25°C ~ 85°C (105°C*) (*Requires voltage, current and pulse current derating) Application: • Interference suppressor for active circuits

Electrical Specifications:
• Rated Voltage: 450VDC • Capacitance Tolerance: ±10% • Withstand Voltage: Between Terminals: 1 minute @ 150% of rated voltage (The capacitor shall be applied the voltage through a resistor of 2kµ or more when charged and discharged.) Between Terminals connected together and case: 1 ~ 5 seconds @ 200% of rated voltage • Insulation Resistance Between Terminals: 9,000MΩ or more (when C≥0.33µF) 3,000MΩ/µF or more (when C>0.33µF) @ 100VDC ±15V for 60 ±5 seconds, @ 20°C • Dissipation Factor: 1.0% or less (measured at a frequency of 1 ±0.2kHz, at 20°C)

WV DC	Cap. µF	Toler- ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
450	.15	10%	18.5	6.0	16.5	15.0	0.6	P10756-ND	.79	.50	.43	ECQ-E2W154KC
	.33	10%	18.0	9.0	17.5	15.0	0.8	P10758-ND	1.03	.71	.61	ECQ-E2W334KC
	.68	10%	25.5	10.5	20.0	22.5	0.8	P10760-ND	1.49	1.06	.92	ECQ-E2W684KC

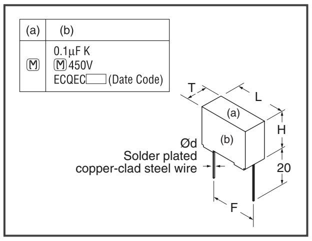

Panasonic® Polypropylene Film Capacitors — P Series

Features: • Wide capacitance range • Close capacitance tolerance • High insulation resistance • Low dissipation factor • Non-inductive construction • Epoxy resin coating **Applications:** • Blocking, by-pass and coupling of DC and signal to UHF range • Pulse, logic and timing circuit • Light duty pulse forming network • Filter and noise suppression circuit **Electrical Specifications:** • Reference Standard: EIAJ RC-3670A • Temperature Range: -40°C ~ 85°C • Dissipation Factor: .1% maximum @ 1KHz and 25°C • Withstand Voltage: 1-5 seconds @ 250% of rated voltage • Insulation Resistance: 45,000MΩ minimum, for values less than .33µF. 15,000 MΩ/µF minimum, for .33µF and greater. (Measured after a 2-minute charge at rated voltage and 25°C)

PANASONIC ECQ-P CROSS REF.: Sprague: 715P **Westlake:** 173/174 **Mepco:** 719E1/719H1 **Secor:** PFDS/PFDR **Roderstein:** KP1835 **Wima:** FKP **CSF Thompson:** PL/PS **Rubycon:** PP **Nisseip:** APS/APA.

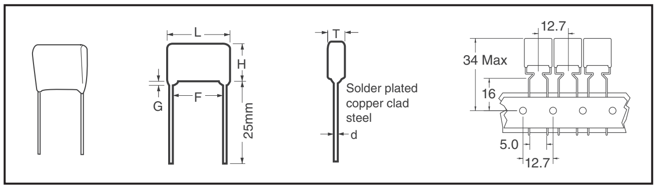

WV DC	Cap. µF	Toler- ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Tape and Box Pricing 1,000	3,000	Panasonic Part No.
50	.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	128.28	120.74/M	ECQ-P1H181JZ3
	.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND◆	128.28	120.74/M	ECQ-P1H561JZ3
	.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND◆	180.18	169.58/M	ECQ-P1H182GZ3
	.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND◆	180.18	169.58/M	ECQ-P1H392GZ3
	.0082	2%	12.0	5.5	9.0	5.0	0.6	P3822TB-ND	194.62	182.45/M	ECQ-P1H822GZ3
	.018	2%	12.0	5.5	9.5	5.0	0.6	P3183TB-ND◆	209.46	196.37/M	ECQ-P1H183GZ3

◆ ***RoHS Compliant***

WV DC	Cap. µF	Toler ance	Dimensions - mm L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
RoHS Compliant													
50	.00039	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3391-ND	.41	9.93	17.03	ECQ-P1H391JZ
	.00056	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3561-ND	.41	9.93	17.03	ECQ-P1H561JZ
	.0012	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3122-ND	.53	15.63	26.80	ECQ-P1H122GZ
	.0018	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3182-ND	.53	15.63	26.80	ECQ-P1H182GZ
	.0039	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3392-ND	.53	15.63	26.80	ECQ-P1H392GZ
	.0068	2%	8.5	5.0	8.0	5.0	1.0	0.5	P3682-ND	.57	16.84	28.86	ECQ-P1H682GZ
	.0082	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3822-ND	.57	16.84	28.86	ECQ-P1H822GZ
	.01	2%	12.0	5.0	8.5	7.5	1.0	0.6	P3103-ND	.61	18.04	30.92	ECQ-P1H103GZ
	.018	2%	12.0	5.5	9.5	7.5	1.0	0.6	P3183-ND	.66	19.48	33.40	ECQ-P1H183GZ
	.047	2%	14.5	6.0	12.5	10.0	1.0	0.6	P3473-ND	.68	21.37	36.81	ECQ-P1H473GZ
	.056	2%	14.5	6.5	13.5	10.0	1.0	0.6	P3563-ND	.75	23.81	41.01	ECQ-P1H563GZ
	.068	2%	14.5	7.0	14.0	10.0	1.0	0.6	P3683-ND	.91	28.69	49.42	ECQ-P1H683GZ
	.1	2%	17.0	7.5	14.5	12.5	1.0	0.6	P3104-ND	.91	28.69	49.42	ECQ-P1H104GZ
	.15	2%	20.0	8.0	15.5	15.0	1.0	0.6	P3154-ND	.99	33.84	58.57	ECQ-P1H154GZ
	.18	2%	20.0	9.0	16.0	15.0	1.0	0.6	P3184-ND	1.20	41.13	71.18	ECQ-P1H184GZ
	.27	2%	20.0	10.5	18.0	15.0	1.0	0.6	P3274-ND	1.48	50.65	87.67	ECQ-P1H274GZ
	.39	2%	22.5	11.0	20.0	17.5	1.0	0.8	P3394-ND	1.59	55.95	97.92	ECQ-P1H394GZ

(Continued)

Panasonic® Polypropylene Film Capacitors Series *(Cont.)*

ECQ-P (Z) Series

Non-inductive construction using Polypropylene film with epoxy resin coating.

Features: • Excellent temperature and frequency characteristics • Excellent long term stability **Applications:** • Dolby circuits • Oscillation circuits **Electrical Specifications:** • Temperature Range: -40°C ~ 85°C • Rated Voltage: 50VDC, (Voltage derating is required above 70°. See data sheet for details.) • Dissipation Factor: 0.1% maximum @ 1kHz and 20°C • Withstand Voltage: Between terminals: Rated voltage: (VDC) x 250% 1-5 seconds • Insulation Resistance: C ≤ 0.33µF: 45000MΩ minimum C > 0.33µF: 15000MΩ µF minimum (20°C Rated Voltage - 60s)

.0075 ~ .47 µF .0001 ~ .0068 µF

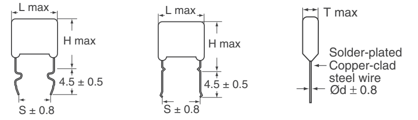

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	S	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
50	0.00039	5%	8.5	4.5	12.5	5.0	0.50	P3896-ND	.40	9.71	16.64	ECQ-P1H391JZW
	0.00056	5%	8.5	4.5	12.5	5.0	0.50	P3898-ND◆	.40	9.71	16.64	ECQ-P1H561JZW
	0.0018	2%	8.5	4.5	12.5	5.0	0.50	P3904-ND◆	.50	13.45	23.43	ECQ-P1H182GZW
	0.0039	2%	8.5	4.5	12.5	5.0	0.50	P3908-ND◆	.50	13.45	23.43	ECQ-P1H392GZW
	0.027	2%	12.0	6.0	16.0	5.0	0.60	P3918-ND	.64	17.12	29.82	ECQ-P1H273GZW
	0.056	2%	14.5	6.5	18.5	5.0	0.60	P3922-ND◆	.70	20.61	35.34	ECQ-P1H563GZW
	0.068	2%	14.5	7.0	19.0	5.0	0.60	P3923-ND◆	.70	20.61	35.34	ECQ-P1H683GZW
	0.12	2%	17.0	8.5	20.5	7.5	0.60	P3926-ND◆	.96	32.92	56.98	ECQ-P1H124GZW
	0.15	2%	20.0	8.0	20.5	10.0	0.60	P3927-ND◆	.96	32.92	56.98	ECQ-P1H154GZW
	0.18	2%	20.0	9.0	21.0	10.0	0.60	P3928-ND◆	1.03	35.16	60.86	ECQ-P1H184GZW
	0.22	2%	20.0	9.5	22.0	10.0	0.60	P3929-ND◆	1.24	42.26	73.14	ECQ-P1H224GZW
	0.27	2%	20.0	10.5	23.0	10.0	0.60	P3930-ND◆	1.24	42.26	73.14	ECQ-P1H274GZW
	0.39	2%	22.5	11.0	25.0	12.5	0.80	P3932-ND◆	1.49	51.03	88.32	ECQ-P1H394GZW
	0.0012	1%	8.5	4.5	12.5	5.0	0.50	P3826-ND◆	.66	20.98	36.13	ECQ-P1H122FZW
	0.0016	1%	8.5	4.5	12.5	5.0	0.50	P3829-ND◆	.66	20.98	36.13	ECQ-P1H162FZW
	0.0018	1%	8.5	4.5	12.5	5.0	0.50	P3830-ND◆	.66	20.98	36.13	ECQ-P1H182FZW
	0.003	1%	8.5	4.5	12.5	5.0	0.50	P3835-ND◆	.66	20.99	36.15	ECQ-P1H302FZW
	0.0043	1%	8.5	4.5	12.5	5.0	0.50	P3839-ND◆	.66	20.99	36.15	ECQ-P1H432FZW
	0.0062	1%	8.5	5.0	13.0	5.0	0.50	P3843-ND◆	.66	20.99	36.15	ECQ-P1H622FZW
	0.0068	1%	8.5	5.0	13.0	5.0	0.50	P3844-ND◆	.66	20.99	36.15	ECQ-P1H682FZW
	0.0075	1%	12.0	5.0	14.0	5.0	0.60	P3845-ND◆	.66	20.99	36.15	ECQ-P1H752FZW

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	S	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
50	0.016	1%	12.0	5.5	14.0	5.0	0.60	P3853-ND◆	.68	21.53	37.07	ECQ-P1H163FZW
	0.03	1%	12.0	6.5	16.0	5.0	0.60	P3859-ND◆	.88	27.86	47.98	ECQ-P1H303FZW
	0.036	1%	14.5	5.5	17.0	5.0	0.60	P3861-ND◆	.88	27.86	47.98	ECQ-P1H363FZW
	0.056	1%	14.5	6.5	18.5	5.0	0.60	P3866-ND◆	1.04	35.41	61.29	ECQ-P1H563FZW
	0.068	1%	14.5	7.0	19.0	5.0	0.60	P3868-ND◆	1.04	35.41	61.29	ECQ-P1H683FZW
	0.091	1%	17.0	7.0	19.0	7.5	0.60	P3871-ND◆	1.04	35.42	61.31	ECQ-P1H913FZW
	0.11	1%	17.0	8.0	20.5	7.5	0.60	P3873-ND◆	1.33	45.66	79.03	ECQ-P1H114FZW
	0.12	1%	17.0	8.5	20.5	7.5	0.60	P3874-ND◆	1.33	45.66	79.03	ECQ-P1H124FZW
	0.13	1%	17.0	8.5	21.0	7.5	0.60	P3875-ND◆	1.33	45.66	79.03	ECQ-P1H134FZW
	0.15	1%	20.0	8.0	20.5	10.0	0.60	P3876-ND◆	1.33	45.66	79.03	ECQ-P1H154FZW
	0.16	1%	20.0	8.5	20.5	10.0	0.60	P3877-ND◆	1.33	45.66	79.03	ECQ-P1H164FZW
	0.18	1%	20.0	9.0	21.0	10.0	0.60	P3878-ND◆	1.33	45.66	79.03	ECQ-P1H184FZW
	0.24	1%	20.0	10.0	22.5	10.0	0.60	P3881-ND◆	1.58	55.91	97.85	ECQ-P1H244FZW
	0.30	1%	22.5	9.5	24.0	12.5	0.80	P3883-ND◆	1.66	58.73	102.78	ECQ-P1H304FZW
	0.36	1%	22.5	10.5	25.0	12.5	0.80	P3885-ND◆	1.86	65.51	114.64	ECQ-P1H364FZW
	0.39	1%	22.5	11.0	25.0	12.5	0.80	P3886-ND◆	2.05	72.29	126.50	ECQ-P1H394FZW
	0.43	1%	22.5	11.5	25.5	12.5	0.80	P3887-ND◆	2.19	77.37	135.40	ECQ-P1H434FZW
	0.47	1%	22.5	12.0	26.0	12.5	0.80	P3888-ND◆	2.32	81.82	143.18	ECQ-P1H474FZW

◆ ***RoHS Compliant***

ECQP(U) Series

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Low loss and excellent frequency characteristics • Excellent temperature characteristics • High insulation resistance **Applications:** • High frequency and high current circuits • General purpose circuit **Electrical Specifications:** • Reference Standard: EIAJ RC-3670B Characteristics P • Temperature Range: -40°C ~ 85°C Derating of rated voltage at more than 85°C (rated voltage x 50%) • Dissipation Factor: 0.1% maximum @ 1kHz and 20°C • Withstand Voltage: 1-5 seconds @ 250% of rated voltage between terminals • Insulation Resistance: 45,000MΩ minimum, for values equal to or less than .33µF. 15,000MΩ/µF minimum, for greater than .33µF (20°C, 100VDC, 60s)

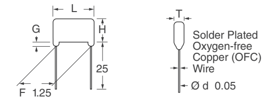

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
400	.0082	5%	19.5	6.0	16.0	15.0	1.0	0.60	P3475-ND◆	.55	14.77	25.72	ECQ-P4822JU
	.018	5%	19.5	6.0	19.0	15.0	1.0	0.60	P3479-ND◆	.64	17.13	29.84	ECQ-P4183JU
	.027	5%	19.5	6.5	20.0	15.0	1.0	0.60	P3481-ND◆	.56	16.42	28.14	ECQ-P4273JU
	.033	5%	19.5	7.0	21.8	15.0	1.0	0.60	P3482-ND◆	.58	16.98	29.11	ECQ-P4333JU
	.039	5%	19.5	7.5	22.8	15.0	1.0	0.60	P3483-ND◆	.59	17.40	29.83	ECQ-P4393JU
	.056	5%	24.5	7.0	22.0	20.0	1.5	0.80	P3485-ND◆	.71	20.78	35.62	ECQ-P4563JU
	.068	5%	24.5	7.5	23.0	20.0	1.5	0.80	P3486-ND◆	.68	21.61	37.21	ECQ-P4683JU
	.082	5%	24.5	8.5	23.8	20.0	1.5	0.80	P3487-ND◆	.74	23.25	40.03	ECQ-P4823JU
	.12	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3489-ND◆	.88	27.71	47.72	ECQ-P4124JU
	.18	5%	29.5	10.5	26.0	25.0	1.5	0.80	P3491-ND◆	.96	32.92	56.98	ECQ-P4184JU
	.27	5%	29.5	13.0	28.4	25.0	1.5	0.80	P3493-ND◆	1.23	41.93	72.58	ECQ-P4274JU
	.33	5%	29.5	15.0	29.8	25.0	1.5	0.80	P3494-ND◆	1.35	46.09	79.77	ECQ-P4334JU
	.39	5%	35.0	15.0	30.0	20.0	1.5	0.80	P3495-ND	1.41	48.39	83.75	ECQ-P4394JU

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
630	.001	5%	14.5	5.0	15.5	10.0	1.0	0.60	P3497-ND◆	.46	12.39	21.58	ECQ-P6102JU
	.0015	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3499-ND◆	.46	12.39	21.58	ECQ-P6152JU
	.0018	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3500-ND◆	.46	12.39	21.58	ECQ-P6182JU
	.0039	5%	14.5	6.0	18.5	10.0	1.0	0.60	P3504-ND◆	.46	12.39	21.58	ECQ-P6392JU
	.0068	5%	19.5	5.5	18.6	15.0	1.0	0.60	P3507-ND◆	.51	13.65	23.78	ECQ-P6682JU
	.0082	5%	19.5	6.0	19.0	15.0	1.0	0.60	P3508-ND◆	.55	14.70	25.61	ECQ-P6822JU
	.018	5%	19.5	7.0	22.6	15.0	1.0	0.60	P3512-ND◆	.58	17.10	29.32	ECQ-P6183JU
	.033	5%	24.5	8.0	23.2	20.0	1.5	0.80	P3515-ND◆	.66	19.57	33.54	ECQ-P6333JU
	.047	5%	24.5	9.0	24.6	20.0	1.5	0.80	P3517-ND◆	.76	23.86	41.09	ECQ-P6473JU
	.056	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3518-ND◆	.76	23.86	41.09	ECQ-P6563JU
	.068	5%	24.5	11.0	28.4	20.0	1.5	0.80	P3519-ND◆	.84	26.43	45.52	ECQ-P6683JU
	.082	5%	29.5	10.5	25.6	25.0	1.5	0.80	P3520-ND◆	.91	28.64	49.32	ECQ-P6823JU

◆ ***RoHS Compliant***

Panasonic® Metallized Polypropylene Film Capacitors – ECWF(A) Series

Features: • Small size • Excellent frequency characteristics • Low loss • Low Hum Sound Noise

Applications: • 250VDC: High current and high frequency • 450VDC: Active filter circuits

Electrical Specifications: • Temperature Range: -40°C ~ 105°C • Withstand Voltage: Between terminals: Rated voltage (VDC) x 150% for 60s • Dissipation Factor: 0.1% maximum (20°C, 1kHz) • Insulation Resistance: 250VDC: 9,000 MΩ minimum for values equal to or less than 0.33µF and 3,000 MΩ/µF minimum for values greater than 0.33µF (20°C, 100VDC, 60s) 450VDC: 30,000 MΩ minimum for values equal to or less than 0.33µF and 10,000 MΩ/µF minimum for values greater than 0.33µF (20°C, 100VDC, 60s)

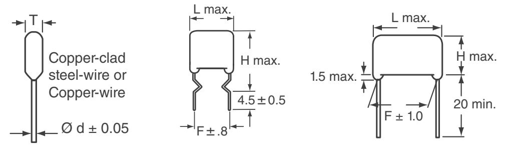
Fig. 1

A - Crimp

B - Straight

Fig.	WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
1A	250	0.1	±5%	13.0	5.0	14.1	10.0	0.6	P14240-ND✔	.68	19.97	34.23	ECW-F2104JAQ
	250	0.12	±5%	13.0	5.3	14.4	10.0	0.6	P14241-ND✔	.68	19.97	34.23	ECW-F2124JAQ
	250	0.15	±5%	13.0	5.6	14.7	10.0	0.6	P14242-ND✔	.68	19.97	34.23	ECW-F2154JAQ
	250	0.18	±5%	13.0	5.9	15.1	10.0	0.6	P14243-ND✔	.64	18.80	32.23	ECW-F2184JAQ
	250	0.22	±5%	13.0	6.3	15.4	10.0	0.6	P14244-ND✔	.78	22.99	39.41	ECW-F2224JAQ
	250	0.27	±5%	13.0	6.8	15.9	10.0	0.6	P14245-ND✔	.78	22.99	39.41	ECW-F2274JAQ
	250	0.33	±5%	13.0	7.3	16.4	10.0	0.6	P14246-ND✔	.78	22.99	39.41	ECW-F2334JAQ
	250	0.39	±5%	13.0	7.8	16.9	10.0	0.6	P14247-ND✔	.83	26.20	45.13	ECW-F2394JAQ
	250	0.47	±5%	13.0	8.4	17.6	10.0	0.6	P14248-ND✔	.83	26.20	45.13	ECW-F2474JAQ
	250	0.56	±5%	18.1	6.9	18.4	15.0	0.8	P14249-ND✔	.93	29.21	50.31	ECW-F2564JAQ
	250	0.68	±5%	18.1	7.4	19.0	15.0	0.8	P14250-ND✔	1.02	32.24	55.52	ECW-F2684JAQ
	250	0.82	±5%	18.1	8.0	19.6	15.0	0.8	P14251-ND✔	1.02	34.93	60.46	ECW-F2824JAQ
1B	250	1.0	±5%	18.1	8.5	13.3	15.0	0.8	P13744-ND✔	1.19	40.76	70.54	ECW-F2105JA
	250	1.2	±5%	18.8	9.5	14.6	15.0	0.8	P13745-ND✔	1.36	46.58	80.62	ECW-F2125JA
	250	1.5	±5%	18.8	10.5	15.6	15.0	0.8	P13746-ND✔	1.65	56.28	97.40	ECW-F2155JA
	250	1.8	±5%	18.8	11.4	16.5	15.0	0.8	P13747-ND✔	1.73	60.90	106.58	ECW-F2185JA
	250	2.2	±5%	18.8	12.6	17.6	15.0	0.8	P13748-ND✔	1.98	69.86	122.26	ECW-F2225JA
	250	2.7	±5%	23.8	11.4	17.2	20.0	0.8	P13749-ND✔	2.23	78.82	137.93	ECW-F2275JA
	250	3.3	±5%	23.8	12.5	18.3	20.0	0.8	P13750-ND✔	2.54	89.57	156.74	ECW-F2335JA
	250	3.9	±5%	23.8	13.5	19.3	20.0	0.8	P13751-ND✔	3.47	120.36	218.32	ECW-F2395JA
	250	4.7	±5%	23.8	14.8	20.6	20.0	0.8	P13753-ND✔	3.93	136.40	247.42	ECW-F2475JA
	250	5.6	±5%	23.8	16.2	21.9	20.0	0.8	P13754-ND✔	4.40	152.45	276.53	ECW-F2565JA
	250	6.8	±5%	23.8	17.8	23.5	20.0	0.8	P13755-ND✔	4.14	161.56	281.69	ECW-F2685JA

Fig.	WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
1A	450	0.10	±5%	13.0	5.1	14.3	10.0	0.6	P14194-ND	.68	19.98	34.25	ECW-F2W104JAQ
	450	0.12	±5%	13.0	5.4	14.5	10.0	0.6	P14195-ND	.68	19.98	34.25	ECW-F2W124JAQ
	450	0.15	±5%	13.0	5.7	14.9	10.0	0.6	P14196-ND	.68	19.98	34.25	ECW-F2W154JAQ
	450	0.18	±5%	13.0	6.1	15.2	10.0	0.6	P14197-ND	.68	19.98	34.25	ECW-F2W184JAQ
	450	0.22	±5%	13.0	6.5	15.6	10.0	0.6	P14198-ND	.83	24.42	41.86	ECW-F2W224JAQ
	450	0.27	±5%	13.0	7.0	16.1	10.0	0.6	P14199-ND	.83	24.42	41.86	ECW-F2W274JAQ
	450	0.33	±5%	13.0	7.6	16.7	10.0	0.6	P14200-ND	.83	24.42	41.86	ECW-F2W334JAQ
	450	0.39	±5%	13.0	8.1	17.2	10.0	0.6	P14201-ND	.88	27.81	47.90	ECW-F2W394JAQ
	450	0.47	±5%	13.0	8.7	17.9	10.0	0.6	P14202-ND	.88	27.81	47.90	ECW-F2W474JAQ
1B	450	0.56	±5%	18.1	7.0	11.5	15.0	0.8	P14203-ND	.98	31.02	53.43	ECW-F2W564JA
	450	0.68	±5%	18.1	7.5	12.1	15.0	0.8	P14204-ND	.96	32.97	57.06	ECW-F2W684JA
	450	0.82	±5%	18.1	8.2	12.7	15.0	0.8	P14205-ND	1.08	37.09	64.19	ECW-F2W824JA
	450	1.00	±5%	18.1	9.3	12.6	15.0	0.8	P14206-ND	1.26	43.26	74.88	ECW-F2W105JA
	450	1.20	±5%	18.8	9.7	14.7	15.0	0.8	P14207-ND	1.45	49.45	85.59	ECW-F2W125JA
	450	1.50	±5%	18.8	10.7	15.8	15.0	0.8	P14208-ND	1.75	59.75	103.41	ECW-F2W155JA
	450	1.80	±5%	18.8	11.6	16.7	15.0	0.8	P14209-ND	1.83	64.66	113.15	ECW-F2W185JA
	450	2.20	±5%	18.8	12.8	17.9	15.0	0.8	P14210-ND	2.10	74.16	129.78	ECW-F2W225JA
	450	2.70	±5%	26.3	10.6	16.5	22.5	0.8	P14211-ND	2.37	83.68	146.43	ECW-F2W275JA
	450	3.30	±5%	26.3	11.7	17.5	22.5	0.8	P14212-ND	2.69	95.09	166.40	ECW-F2W335JA
	450	3.90	±5%	26.3	12.6	18.4	22.5	0.8	P14213-ND	3.18	112.20	196.35	ECW-F2W395JA
	450	4.70	±5%	26.3	13.8	19.6	22.5	0.8	P14214-ND	3.34	115.84	210.13	ECW-F2W475JA

✔ ***NEW!***

(Continued)

Panasonic Metallized Polypropylene Film Capacitors *(Cont.)*

ECWF(B) Series

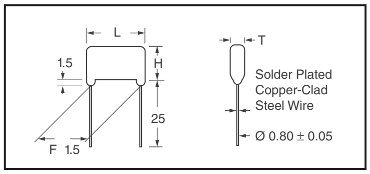

Designed for applications where high current and high frequency are required.
Features: • Low-loss • Excellent frequency characteristics • Flame retardant epoxy resin coating
Applications: • High frequency and high current circuits (TV, display, monitor, power supply, etc.) **Electrical Specifications:** • Temperature Range: -25°C ~ 85°C • Rated Voltage: 250VDC (150Vrms, 250Vp-p), 400VDC (200Vrms, 400Vp-p) • Dissipation Factor: .068µF ~ .51µF: 0.05% maximum (20°C, 1kHz) 250VDC, .56µF ~ 4.7µF: 0.1% maximum (20°C, 1kHz) 250VDC, .068µF ~ 4.7µF: 0.2% maximum (20°C, 10kHz) 250VDC, .068µF ~ 1.5µF: 0.1% maximum (20°C, 1kHz) 400VDC • Withstand Voltage: Between terminals • Rated voltage: (VDC) x 150% for 60s • Insulation Resistance: 9,000MΩ minimum, for values 0.068µF ~ .33µF, 3,000 MΩ/µF minimum, for 0.36µF ~ 4.7µF (20°C, 100VDC, 60s)

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
250	.068	5%	18.0	6.0	13.0	15.0	PF2683-ND◆	.63	18.42	31.58	ECW-F2683JB
	.082	5%	18.0	6.5	13.5	15.0	PF2823-ND◆	.63	18.42	31.58	ECW-F2823JB
	.1	5%	18.0	7.0	14.0	15.0	PF2104-ND◆	.63	18.42	31.58	ECW-F2104JB
	.12	5%	18.0	7.5	14.5	15.0	PF2124-ND◆	.64	18.87	32.35	ECW-F2124JB
	.15	5%	18.0	8.5	15.0	15.0	PF2154-ND◆	.70	20.76	35.59	ECW-F2154JB
	.18	5%	18.0	6.5	13.5	15.0	PF2184-ND◆	.71	20.87	35.78	ECW-F2184JB
	.22	5%	18.0	7.0	14.0	15.0	PF2224-ND◆	.72	21.28	36.48	ECW-F2224JB
	.27	5%	18.0	8.0	14.5	15.0	PF2274-ND◆	.74	21.84	37.44	ECW-F2274JB
	.33	5%	18.0	8.5	15.0	15.0	PF2334-ND◆	.76	22.41	38.42	ECW-F2334JB
	.39	5%	18.0	9.0	16.0	15.0	PF2394-ND◆	.80	23.55	40.37	ECW-F2394JB
	.47	5%	23.0	8.0	15.0	20.0	PF2474-ND◆	.84	24.65	42.26	ECW-F2474JB
	.56	5%	23.0	8.5	15.5	20.0	PF2564-ND◆	.79	24.85	42.80	ECW-F2564JB
	.68	5%	23.0	9.5	16.5	20.0	PF2684-ND◆	.82	25.93	44.66	ECW-F2684JB
	.82	5%	23.0	10.5	17.0	20.0	PF2824-ND◆	.84	26.47	45.59	ECW-F2824JB
	1.0	5%	23.0	11.5	18.0	20.0	PF2105-ND◆	.91	28.65	49.34	ECW-F2105JB
	1.2	5%	23.0	12.5	19.5	20.0	PF2125-ND	1.42	48.58	84.08	ECW-F2125JB
	1.5	5%	23.0	14.0	21.0	20.0	PF2155-ND◆	1.52	52.03	90.05	ECW-F2155JB
	1.8	5%	28.0	12.5	21.0	25.0	PF2185-ND◆	1.65	56.37	97.56	ECW-F2185JB
	2.2	5%	28.0	14.0	22.5	25.0	PF2225-ND◆	1.77	60.71	105.08	ECW-F2225JB
	2.7	5%	28.0	15.5	24.0	25.0	PF2275-ND◆	1.83	64.56	112.98	ECW-F2275JB

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
250	3.3	5%	28.0	17.0	26.0	25.0	PF2335-ND◆	2.56	90.40	158.19	ECW-F2335JB
	3.9	5%	33.0	16.5	25.5	30.0	PF2395-ND◆	2.79	98.30	172.03	ECW-F2395JB
	4.7	5%	33.0	18.0	27.0	30.0	PF2475-ND◆	2.88	101.70	177.98	ECW-F2475JB
400	.068	5%	18.0	6.5	13.0	15.0	PF4683-ND◆	1.57	53.77	93.06	ECW-F4683JB
	.082	5%	18.0	7.0	13.5	15.0	PF4823-ND	1.57	53.77	93.06	ECW-F4823JB
	.1	5%	18.0	7.5	14.0	15.0	PF4104-ND◆	1.57	53.77	93.06	ECW-F4104JB
	.12	5%	18.0	8.0	15.0	15.0	PF4124-ND◆	1.58	54.16	93.74	ECW-F4124JB
	.15	5%	18.0	8.5	15.5	15.0	PF4154-ND◆	1.74	59.53	103.03	ECW-F4154JB
	.18	5%	18.0	9.5	16.5	15.0	PF4184-ND	1.75	59.93	103.73	ECW-F4184JB
	.22	5%	20.0	9.5	16.5	17.0	PF4224-ND	1.79	61.07	105.71	ECW-F4224JB
	.27	5%	20.0	10.5	17.0	17.0	PF4274-ND◆	1.86	63.61	110.09	ECW-F4274JB
	.33	5%	20.0	11.5	18.0	17.0	PF4334-ND◆	1.71	60.49	105.86	ECW-F4334JB
	.39	5%	23.0	13.5	20.5	20.0	PF4394-ND	1.76	62.27	108.97	ECW-F4394JB
	.47	5%	23.0	14.5	21.5	20.0	PF4474-ND◆	1.87	65.83	115.21	ECW-F4474JB
	.56	5%	23.0	13.0	20.0	20.0	PF4564-ND	1.97	69.40	121.44	ECW-F4564JB
	.68	5%	23.0	14.5	21.5	20.0	PF4684-ND◆	2.07	72.95	127.66	ECW-F4684JB
	.82	5%	28.0	14.0	20.5	25.0	PF4824-ND◆	2.17	76.51	133.90	ECW-F4824JB
	1.0	5%	28.0	15.0	22.0	25.0	PF4105-ND◆	2.27	80.06	140.11	ECW-F4105JB
	1.2	5%	28.0	16.5	23.5	25.0	PF4125-ND◆	2.42	85.40	149.46	ECW-F4125JB
	1.5	5%	28.0	18.5	25.5	25.0	PF4155-ND◆	2.57	90.74	158.80	ECW-F4155JB

◆ ***RoHS Compliant***

ECWF(L) Series

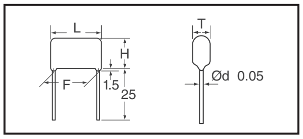

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Miniaturized **Recommended Applications:** • Lighting • Power supply • Industrial use • Suitable for high current and high frequency circuits **Electrical Specifications:** • Temperature Range: -40°C ~ 85°C (105°C) • Rated Voltage: 400VDC, 630VDC • Lead Material: 400V: 0.022µF ~ 0.11µF Tin-plated, Copper-clad, Steel-wire; 0.12µF ~ 2.4µF Tin-plated, Copper-wire 630V: 0.01µF ~ 0.043µF Tin-plated, Copper-clad, Steel-wire; 0.047µF ~ 1.3µF Tin-plated, Copper-wire • Capacitance Tolerance: ±3% (H), ±5% (J) • Withstanding Voltage: Rated voltage x 150% for 60s • Insulation Resistance: 9,000MΩ minimum, for values equal to or less than .33µF. 3,000MΩ/µF minimum, for greater than .33µF (20°C, 100VDC and 500VDC, 60s) • Dissipation Factor: 0.05% maximum at 1kHz and 20°C.

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
400	.022	±3%	12.5	5.8	8.6	10.0	0.6	P12059-ND◆	1.35	46.10	79.79	ECW-F4223HL
	.024	±3%	12.5	6.0	8.8	10.0	0.6	P12061-ND◆	1.35	46.10	79.79	ECW-F4243HL
	.027	±3%	12.5	6.2	9.0	10.0	0.6	P12063-ND	1.41	48.19	83.41	ECW-F4273HL
	.03	±3%	12.5	6.4	9.3	10.0	0.6	P12065-ND	1.41	48.19	83.41	ECW-F4303HL
	.033	±3%	12.5	6.7	9.5	10.0	0.6	P12067-ND	1.47	50.27	87.01	ECW-F4333HL
	.036	±3%	12.5	5.7	8.4	10.0	0.6	P12069-ND	1.47	50.27	87.01	ECW-F4363HL
	.039	±3%	12.5	5.8	8.6	10.0	0.6	P12071-ND	1.53	52.36	90.63	ECW-F4393HL
	.043	±3%	12.5	6.0	8.8	10.0	0.6	P12073-ND	1.53	52.36	90.63	ECW-F4433HL
	.047	±3%	12.5	6.2	9.0	10.0	0.6	P12075-ND◆	1.59	54.47	94.28	ECW-F4473HL
	.051	±3%	12.5	6.4	9.2	10.0	0.6	P12077-ND	1.59	54.47	94.28	ECW-F4513HL
	.056	±3%	12.5	6.6	9.4	10.0	0.6	P12079-ND	1.65	56.56	97.90	ECW-F4563HL
	.062	±3%	13.0	6.8	9.6	10.0	0.8	P12081-ND	1.65	56.56	97.90	ECW-F4623HL
	.068	±3%	13.0	7.0	9.9	10.0	0.8	P12083-ND◆	1.68	57.62	99.72	ECW-F4683HL
	.075	±3%	13.0	7.3	10.1	10.0	0.8	P12085-ND	1.68	57.62	99.72	ECW-F4753HL
	.082	±3%	13.0	7.5	10.4	10.0	0.8	P12087-ND◆	1.68	57.62	99.72	ECW-F4823HL
	.091	±3%	13.0	7.8	10.7	10.0	0.8	P12089-ND	1.68	57.62	99.72	ECW-F4913HL
	.1	±3%	15.5	6.5	11.0	12.5	0.8	P12091-ND◆	1.68	57.62	99.72	ECW-F4104HL
	.11	±3%	15.5	6.8	11.3	12.5	0.8	P12093-ND	1.72	58.83	101.81	ECW-F4114HL
	.12	±3%	15.5	7.0	11.5	12.5	0.8	P12095-ND◆	1.72	59.01	102.13	ECW-F4124HL
	.13	±3%	15.5	7.2	11.8	12.5	0.8	P12097-ND	1.81	61.97	107.26	ECW-F4134HL
	.15	±3%	15.5	7.6	12.2	12.5	0.8	P12099-ND◆	1.90	64.95	112.41	ECW-F4154HL
	.16	±3%	15.5	7.8	12.4	12.5	0.8	P12101-ND	1.70	60.11	105.19	ECW-F4164HL
	.18	±3%	15.5	8.2	12.8	12.5	0.8	P12103-ND◆	1.71	60.26	105.46	ECW-F4184HL
	.2	±3%	15.5	8.6	13.3	12.5	0.8	P12105-ND	1.73	61.07	106.87	ECW-F4204HL
	.22	±3%	15.5	9.0	13.6	12.5	0.8	P12107-ND◆	1.74	61.39	107.44	ECW-F4224HL
	.24	±3%	18.0	8.3	13.0	15.0	0.8	P12192-ND◆	1.76	62.27	108.97	ECW-F4244HL
	.27	±3%	18.0	8.8	13.4	15.0	0.8	P12193-ND◆	1.79	63.08	110.40	ECW-F4274HL
	.3	±3%	18.0	9.2	13.9	15.0	0.8	P12194-ND◆	1.81	63.89	111.80	ECW-F4304HL
	.33	±3%	18.0	9.6	14.3	15.0	0.8	P12195-ND◆	1.83	64.69	113.21	ECW-F4334HL
	.36	±3%	18.0	9.9	14.7	15.0	0.8	P12196-ND◆	1.88	66.31	116.05	ECW-F4364HL
	.39	±3%	18.0	10.3	15.1	15.0	0.8	P12197-ND◆	1.92	67.93	118.88	ECW-F4394HL
	.43	±3%	18.0	10.7	15.6	15.0	0.8	P12198-ND◆	1.97	69.55	121.72	ECW-F4434HL
	.47	±3%	18.0	11.2	16.1	15.0	0.8	P12199-ND◆	2.02	71.16	124.53	ECW-F4474HL
	.51	±3%	20.5	10.3	16.8	17.5	0.8	P12200-ND◆	2.06	72.78	127.37	ECW-F4514HL
	.56	±3%	20.5	10.7	17.3	17.5	0.8	P12201-ND◆	2.11	74.40	130.20	ECW-F4564HL
	.62	±3%	20.5	11.3	17.9	17.5	0.8	P12202-ND◆	2.15	76.02	133.04	ECW-F4624HL
	.68	±3%	20.5	11.8	18.5	17.5	0.8	P12203-ND◆	2.20	77.64	135.87	ECW-F4684HL
	.75	±3%	20.5	12.3	19.1	17.5	0.8	P12204-ND◆	2.25	79.25	138.68	ECW-F4754HL
	.82	±3%	23.0	11.8	18.5	20.0	0.8	P12205-ND◆	2.29	80.87	141.52	ECW-F4824HL
	.91	±3%	23.0	12.4	19.2	20.0	0.8	P12206-ND◆	2.36	83.29	145.76	ECW-F4914HL
	1.0	±3%	23.0	13.0	19.8	20.0	0.8	P12207-ND	2.43	85.72	150.00	ECW-F4105HL
	1.1	±3%	23.0	13.6	20.5	20.0	0.8	P12208-ND◆	2.50	88.15	154.27	ECW-F4115HL
	1.2	±3%	28.0	12.3	19.1	25.0	0.8	P12209-ND◆	2.57	90.58	158.51	ECW-F4125HL
	1.3	±3%	28.0	12.8	19.6	25.0	0.8	P12210-ND◆	2.66	93.80	164.16	ECW-F4135HL
	1.5	±3%	28.0	13.7	20.7	25.0	0.8	P12211-ND◆	2.75	97.04	169.83	ECW-F4155HL
	1.6	±3%	28.0	14.2	21.2	25.0	0.8	P12212-ND	2.86	101.09	176.90	ECW-F4165HL
	1.8	±3%	28.0	15.2	22.2	25.0	0.8	P12213-ND◆	2.98	105.13	183.98	ECW-F4185HL
	2.0	±3%	28.0	16.0	23.1	25.0	0.8	P12214-ND◆	3.09	109.18	191.06	ECW-F4205HL
	2.2	±3%	28.0	16.8	24.0	25.0	0.8	P12215-ND◆	3.21	113.22	198.14	ECW-F4225HL
	2.4	±3%	28.0	17.5	24.8	25.0	0.8	P12216-ND◆	3.32	117.26	205.21	ECW-F4245HL
	.022	±5%	12.5	5.8	8.6	10.0	0.6	P12060-ND◆	1.12	38.40	66.47	ECW-F4223JL
	.024	±5%	12.5	6.0	8.8	10.0	0.6	P12062-ND◆	1.12	38.40	66.47	ECW-F4243JL
	.027	±5%	12.5	6.2	9.0	10.0	0.6	P12064-ND◆	1.17	40.16	69.50	ECW-F4273JL
	.03	±5%	12.5	6.4	9.3	10.0	0.6	P12066-ND	1.17	40.16	69.50	ECW-F4303JL
	.033	±5%	12.5	6.7	9.5	10.0	0.6	P12068-ND◆	1.22	41.90	72.52	ECW-F4333JL
	.036	±5%	12.5	5.7	8.4	10.0	0.6	P12070-ND	1.22	41.90	72.52	ECW-F4363JL
	.039	±5%	12.5	5.8	8.6	10.0	0.6	P12072-ND	1.28	43.65	75.56	ECW-F4393JL
	.043	±5%	12.5	6.0	8.8	10.0	0.6	P12074-ND	1.28	43.65	75.56	ECW-F4433JL
	.047	±5%	12.5	6.2	9.0	10.0	0.6	P12076-ND	1.33	45.38	78.55	ECW-F4473JL
	.051	±5%	12.5	6.4	9.2	10.0	0.6	P12078-ND	1.33	45.38	78.55	ECW-F4513JL
	.056	±5%	12.5	6.6	9.4	10.0	0.6	P12080-ND	1.38	47.14	81.59	ECW-F4563JL

WV DC	Cap. µF	Toler-ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
400	.062	±5%	13.0	6.8	9.6	10.0	0.8	P12082-ND	1.38	47.14	81.59	ECW-F4623JL
	.068	±5%	13.0	7.0	9.9	10.0	0.8	P12084-ND◆	1.43	48.88	84.60	ECW-F4683JL
	.075	±5%	13.0	7.3	10.1	10.0	0.8	P12086-ND	1.43	48.88	84.60	ECW-F4753JL
	.082	±5%	13.0	7.5	10.4	10.0	0.8	P12088-ND◆	1.43	48.88	84.60	ECW-F4823JL
	.091	±5%	13.0	7.8	10.7	10.0	0.8	P12090-ND	1.43	48.88	84.60	ECW-F4913JL
	.1	±5%	15.5	6.5	11.0	12.5	0.8	P12092-ND◆	1.43	48.88	84.60	ECW-F4104JL
	.11	±5%	15.5	6.8	11.3	12.5	0.8	P12094-ND	1.43	49.06	84.92	ECW-F4114JL
	.12	±5%	15.5	7.0	11.5	12.5	0.8	P12096-ND◆	1.44	49.23	85.21	ECW-F4124JL
	.13	±5%	15.5	7.2	11.8	12.5	0.8	P12098-ND	1.51	51.68	89.44	ECW-F4134JL
	.15	±5%	15.5	7.6	12.2	12.5	0.8	P12100-ND	1.58	54.12	93.67	ECW-F4154JL
	.16	±5%	15.5	7.8	12.4	12.5	0.8	P12102-ND	1.59	54.29	93.96	ECW-F4164JL
	.18	±5%	15.5	8.2	12.8	12.5	0.8	P12104-ND	1.59	54.47	94.28	ECW-F4184JL
	.2	±5%	15.5	8.6	13.3	12.5	0.8	P12106-ND	1.61	55.16	95.47	ECW-F4204JL
	.22	±5%	15.5	9.0	13.6	12.5	0.8	P12108-ND◆	1.62	55.52	96.10	ECW-F4224JL
	.24	±5%	18.0	8.3	13.0	15.0	0.8	P12217-ND◆	1.66	56.94	98.55	ECW-F4244JL
	.27	±5%	18.0	8.8	13.4	15.0	0.8	P12218-ND◆	1.69	57.82	100.08	ECW-F4274JL
	.3	±5%	18.0	9.2	13.9	15.0	0.8	P12219-ND◆	1.72	58.70	101.59	ECW-F4304JL
	.33	±5%	18.0	9.6	14.3	15.0	0.8	P12220-ND◆	1.74	59.58	103.12	ECW-F4334JL
	.36	±5%	18.0	9.9	14.7	15.0	0.8	P12221-ND	1.77	60.45	104.63	ECW-F4364JL
	.39	±5%	18.0	10.3	15.1	15.0	0.8	P12222-ND◆	1.79	61.32	106.13	ECW-F4394JL
	.43	±5%	18.0	10.7	15.6	15.0	0.8	P12223-ND◆	1.84	63.08	109.17	ECW-F4434JL
	.47	±5%	18.0	11.2	16.1	15.0	0.8	P12224-ND◆	1.90	64.83	112.21	ECW-F4474JL
	.51	±5%	20.5	10.3	16.8	17.5	0.8	P12225-ND◆	1.74	61.46	107.56	ECW-F4514JL
	.56	±5%	20.5	10.7	17.3	17.5	0.8	P12226-ND◆	1.79	63.08	110.40	ECW-F4564JL
	.62	±5%	20.5	11.3	17.9	17.5	0.8	P12227-ND◆	1.83	64.69	113.21	ECW-F4624JL
	.68	±5%	20.5	11.8	18.5	17.5	0.8	P12228-ND◆	1.88	66.31	116.05	ECW-F4684JL
	.75	±5%	20.5	12.3	19.1	17.5	0.8	P12229-ND◆	1.92	67.93	118.88	ECW-F4754JL
	.82	±5%	23.0	11.8	18.5	20.0	0.8	P12230-ND◆	1.97	69.55	121.72	ECW-F4824JL
	.91	±5%	23.0	12.4	19.2	20.0	0.8	P12231-ND	2.02	71.16	124.53	ECW-F4914JL
	1.0	±5%	23.0	13.0	19.8	20.0	0.8	P12232-ND◆	2.06	72.78	127.37	ECW-F4105JL
	1.1	±5%	23.0	13.6	20.5	20.0	0.8	P12233-ND	2.13	75.20	131.61	ECW-F4115JL
	1.2	±5%	28.0	12.3	19.1	25.0	0.8	P12234-ND◆	2.20	77.64	135.87	ECW-F4125JL
	1.3	±5%	28.0	12.8	19.6	25.0	0.8	P12235-ND◆	2.27	80.06	140.11	ECW-F4135JL
	1.5	±5%	28.0	13.7	20.7	25.0	0.8	P12236-ND◆	2.34	82.49	144.35	ECW-F4155JL
	1.6	±5%	28.0	14.2	21.2	25.0	0.8	P12237-ND◆	2.43	85.72	150.00	ECW-F4165JL
	1.8	±5%	28.0	15.2	22.2	25.0	0.8	P12238-ND◆	2.52	88.96	155.67	ECW-F4185JL
	2.0	±5%	28.0	16.0	23.1	25.0	0.8	P12239-ND◆	2.64	93.00	162.75	ECW-F4205JL
	2.2	±5%	28.0	16.8	24.0	25.0	0.8	P12240-ND◆	2.75	97.04	169.83	ECW-F4225JL
	2.4	±5%	28.0	17.5	24.8	25.0	0.8	P12241-ND◆	2.86	101.09	176.90	ECW-F4245JL
	.01	±3%	12.5	5.2	8.0	10.0	0.6	P12109-ND◆	1.36	46.57	80.60	ECW-F6103HL
	.011	±3%	12.5	5.4	8.2	10.0	0.6	P12111-ND	1.36	46.57	80.60	ECW-F6113HL
	.012	±3%	12.5	5.5	8.3	10.0	0.6	P12113-ND	1.36	46.57	80.60	ECW-F6123HL
	.013	±3%	12.5	5.6	8.5	10.0	0.6	P12115-ND	1.36	46.57	80.60	ECW-F6133HL
	.015	±3%	12.5	5.9	8.7	10.0	0.6	P12117-ND◆	1.36	46.57	80.60	ECW-F6153HL
	.016	±3%	12.5	6.0	8.9	10.0	0.6	P12119-ND◆	1.36	46.57	80.60	ECW-F6163HL
	.018	±3%	12.5	6.2	9.1	10.0	0.6	P12121-ND	1.43	48.88	84.60	ECW-F6183HL
630	.02	±3%	12.5	6.5	9.3	10.0	0.6	P12123-ND◆	1.43	48.88	84.60	ECW-F6203HL
	.022	±3%	12.5	6.2	9.0	10.0	0.6	P12125-ND◆	1.43	48.88	84.60	ECW-F6223HL
	.024	±3%	12.5	6.4	9.2	10.0	0.6	P12127-ND◆	1.50	51.21	88.63	ECW-F6243HL
	.027	±3%	13.0	6.6	9.5	10.0	0.8	P12129-ND	1.56	53.53	92.66	ECW-F6273HL
	.03	±3%	13.0	6.9	9.7	10.0	0.8	P12131-ND	1.56	53.53	92.66	ECW-F6303HL
	.033	±3%	13.0	7.1	10.0	10.0	0.8	P12133-ND◆	1.63	55.86	96.68	ECW-F6333HL
	.036	±3%	13.0	7.3	10.2	10.0	0.8	P12135-ND	1.63	55.86	96.68	ECW-F6363HL
	.039	±3%	13.0	7.6	10.4	10.0	0.8	P12137-ND	1.70	58.19	100.71	ECW-F6393HL
	.043	±3%	13.0	7.9	10.7	10.0	0.8	P12139-ND	1.70	58.19	100.71	ECW-F6433HL
	.047	±3%	15.5	6.4	10.8	12.5	0.8	P12141-ND	1.77	60.52	104.74	ECW-F6473HL
	.051	±3%	15.5	6.6	11.0	12.5	0.8	P12143-ND	1.77	60.52	104.74	ECW-F6513HL
	.056	±3%	15.5	6.8	11.2	12.5	0.8	P12145-ND	1.84	62.86	108.79	ECW-F6563HL
	.062	±3%	15.5	7.1	11.5	12.5	0.8	P12147-ND	1.84	62.86	108.79	ECW-F6623HL
	.068	±3%	15.5	7.4	11.8	12.5	0.8	P12149-ND◆	1.87	64.01	110.79	ECW-F6683HL

◆ ***RoHS Compliant***

(Continued)

Panasonic

Metallized Polypropylene Film Capacitors

ECWF(L) Series *(Cont.)*

WV DC	Cap. µF	Toler- ance	Dimensions - mm					Digi-Key Part No.	Pricing			Panasonic Part No.
			L	T	H	F	d		1	50	100	
630	.075	±3%	15.5	7.7	12.1	12.5	0.8	P12151-ND	1.87	64.01	110.79	ECW-F6753HL
	.082	±3%	15.5	8.0	12.4	12.5	0.8	P12153-ND	1.87	64.01	110.79	ECW-F6823HL
	.091	±3%	15.5	8.3	12.7	12.5	0.8	P12155-ND	1.87	64.01	110.79	ECW-F6913HL
	.1	±3%	18.0	7.7	12.1	15.0	0.8	P12157-ND◆	1.87	64.01	110.79	ECW-F6104HL
	.11	±3%	18.0	8.0	12.4	15.0	0.8	P12159-ND	1.71	60.34	105.59	ECW-F6114HL
	.12	±3%	18.0	8.3	12.7	15.0	0.8	P12161-ND	1.71	60.52	105.90	ECW-F6124HL
	.13	±3%	18.0	8.5	13.0	15.0	0.8	P12163-ND	1.80	63.56	111.24	ECW-F6134HL
	.15	±3%	18.0	9.1	13.5	15.0	0.8	P12165-ND◆	1.89	66.60	116.55	ECW-F6154HL
	.16	±3%	18.0	9.3	13.8	15.0	0.8	P12167-ND	1.89	66.78	116.87	ECW-F6164HL
	.18	±3%	18.0	9.8	14.2	15.0	0.8	P12169-ND◆	1.90	66.96	117.18	ECW-F6184HL
	.2	±3%	18.0	10.3	14.7	15.0	0.8	P12171-ND	1.92	67.85	118.73	ECW-F6204HL
	.22	±3%	18.0	10.8	15.5	15.0	0.8	P12173-ND◆	1.93	68.22	119.39	ECW-F6224HL
	.24	±3%	18.0	11.2	15.9	15.0	0.8	P12242-ND	1.94	68.57	119.99	ECW-F6244HL
	.27	±3%	20.5	10.4	16.7	17.5	0.8	P12243-ND◆	1.97	69.55	121.72	ECW-F6274HL
	.3	±3%	20.5	10.9	17.2	17.5	0.8	P12244-ND	1.99	70.36	123.12	ECW-F6304HL
	.33	±3%	20.5	11.4	17.7	17.5	0.8	P12245-ND◆	2.02	71.16	124.53	ECW-F6334HL
	.36	±3%	20.5	11.9	18.5	17.5	0.8	P12246-ND◆	2.04	71.98	125.96	ECW-F6364HL
	.39	±3%	20.5	12.4	19.0	17.5	0.8	P12247-ND◆	2.06	72.78	127.37	ECW-F6394HL
	.43	±3%	20.5	13.0	19.5	17.5	0.8	P12248-ND◆	2.11	74.40	130.20	ECW-F6434HL
	.47	±3%	20.5	13.5	20.1	17.5	0.8	P12249-ND◆	2.15	76.02	133.04	ECW-F6474HL
	.51	±3%	28.0	11.1	17.3	25.0	0.8	P12250-ND◆	2.20	77.64	135.87	ECW-F6514HL
	.56	±3%	28.0	11.6	17.8	25.0	0.8	P12251-ND◆	2.25	79.25	138.68	ECW-F6564HL
	.62	±3%	28.0	12.1	18.7	25.0	0.8	P12252-ND◆	2.29	80.87	141.52	ECW-F6624HL
	.68	±3%	28.0	12.7	19.3	25.0	0.8	P12253-ND◆	2.36	83.29	145.76	ECW-F6684HL
	.75	±3%	28.0	13.3	19.9	25.0	0.8	P12254-ND◆	2.43	85.72	150.00	ECW-F6754HL
	.82	±3%	28.0	13.9	20.5	25.0	0.8	P12255-ND◆	2.50	88.15	154.27	ECW-F6824HL
	.91	±3%	28.0	14.6	21.2	25.0	0.8	P12256-ND◆	2.57	90.58	158.51	ECW-F6914HL
	1.0	±3%	28.0	15.5	22.3	25.0	0.8	P12257-ND◆	2.66	93.80	164.16	ECW-F6105HL
	1.1	±3%	28.0	16.3	23.0	25.0	0.8	P12258-ND◆	2.75	97.04	169.83	ECW-F6115HL
	1.2	±3%	28.0	17.0	23.7	25.0	0.8	P12259-ND◆	2.86	101.09	176.90	ECW-F6125HL
	1.3	±3%	28.0	17.6	24.4	25.0	0.8	P12260-ND◆	2.98	105.13	183.98	ECW-F6135HL
	.01	±5%	12.5	5.2	8.0	10.0	0.6	P12110-ND◆	1.13	38.81	67.16	ECW-F6103JL
	.011	±5%	12.5	5.4	8.2	10.0	0.6	P12112-ND	1.13	38.81	67.16	ECW-F6113JL
	.012	±5%	12.5	5.5	8.3	10.0	0.6	P12114-ND◆	1.13	38.81	67.16	ECW-F6123JL
	.013	±5%	12.5	5.6	8.5	10.0	0.6	P12116-ND	1.13	38.81	67.16	ECW-F6133JL
	.015	±5%	12.5	5.9	8.7	10.0	0.6	P12118-ND◆	1.13	38.81	67.16	ECW-F6153JL
	.016	±5%	12.5	6.0	8.9	10.0	0.6	P12120-ND	1.13	38.81	67.16	ECW-F6163JL
	.018	±5%	12.5	6.2	9.1	10.0	0.6	P12122-ND	1.19	40.74	70.52	ECW-F6183JL
	.02	±5%	12.5	6.5	9.3	10.0	0.6	P12124-ND	1.19	40.74	70.52	ECW-F6203JL
	.022	±5%	12.5	6.2	9.0	10.0	0.6	P12126-ND	1.25	42.68	73.87	ECW-F6223JL
	.024	±5%	12.5	6.4	9.2	10.0	0.6	P12128-ND◆	1.25	42.68	73.87	ECW-F6243JL
	.027	±5%	13.0	6.6	9.5	10.0	0.8	P12130-ND	1.30	44.62	77.22	ECW-F6273JL

WV DC	Cap. µF	Toler- ance	Dimensions - mm					Digi-Key Part No.	Pricing			Panasonic Part No.
			L	T	H	F	d		1	50	100	
630	.03	±5%	13.0	6.9	9.7	10.0	0.8	P12132-ND	1.30	44.62	77.22	ECW-F6303JL
	.033	±5%	13.0	7.1	10.0	10.0	0.8	P12134-ND	1.36	46.57	80.60	ECW-F6333JL
	.036	±5%	13.0	7.3	10.2	10.0	0.8	P12136-ND	1.36	46.57	80.60	ECW-F6363JL
	.039	±5%	13.0	7.6	10.4	10.0	0.8	P12138-ND	1.42	48.49	83.93	ECW-F6393JL
	.043	±5%	13.0	7.9	10.7	10.0	0.8	P12140-ND	1.42	48.49	83.93	ECW-F6433JL
	.047	±5%	15.5	6.4	10.8	12.5	0.8	P12142-ND	1.47	50.43	87.28	ECW-F6473JL
	.051	±5%	15.5	6.6	11.0	12.5	0.8	P12144-ND◆	1.47	50.43	87.28	ECW-F6513JL
	.056	±5%	15.5	6.8	11.2	12.5	0.8	P12146-ND	1.53	52.36	90.63	ECW-F6563JL
	.062	±5%	15.5	7.1	11.5	12.5	0.8	P12148-ND	1.53	52.36	90.63	ECW-F6623JL
	.068	±5%	15.5	7.4	11.8	12.5	0.8	P12150-ND◆	1.59	54.31	94.01	ECW-F6683JL
	.075	±5%	15.5	7.7	12.1	12.5	0.8	P12152-ND	1.59	54.31	94.01	ECW-F6753JL
	.082	±5%	15.5	8.0	12.4	12.5	0.8	P12154-ND	1.59	54.31	94.01	ECW-F6823JL
	.091	±5%	15.5	8.3	12.7	12.5	0.8	P12156-ND	1.59	54.31	94.01	ECW-F6913JL
	.1	±5%	18.0	7.7	12.1	15.0	0.8	P12158-ND◆	1.59	54.31	94.01	ECW-F6104JL
	.11	±5%	18.0	8.0	12.4	15.0	0.8	P12160-ND	1.59	54.50	94.32	ECW-F6114JL
	.12	±5%	18.0	8.3	12.7	15.0	0.8	P12162-ND	1.60	54.70	94.68	ECW-F6124JL
	.13	±5%	18.0	8.5	13.0	15.0	0.8	P12164-ND	1.68	57.41	99.36	ECW-F6134JL
	.15	±5%	18.0	9.1	13.5	15.0	0.8	P12166-ND◆	1.76	60.13	104.06	ECW-F6154JL
	.16	±5%	18.0	9.3	13.8	15.0	0.8	P12168-ND	1.76	60.32	104.40	ECW-F6164JL
	.18	±5%	18.0	9.8	14.2	15.0	0.8	P12170-ND	1.77	60.52	104.74	ECW-F6184JL
	.2	±5%	18.0	10.3	14.7	15.0	0.8	P12172-ND	1.79	61.30	106.09	ECW-F6204JL
	.22	±5%	18.0	10.8	15.5	15.0	0.8	P12174-ND◆	1.80	61.69	106.76	ECW-F6224JL
	.24	±5%	18.0	11.2	15.9	15.0	0.8	P12261-ND◆	1.82	62.26	107.75	ECW-F6244JL
	.27	±5%	20.5	10.4	16.7	17.5	0.8	P12262-ND◆	1.87	63.96	110.70	ECW-F6274JL
	.3	±5%	20.5	10.9	17.2	17.5	0.8	P12263-ND◆	1.90	64.83	112.21	ECW-F6304JL
	.33	±5%	20.5	11.4	17.7	17.5	0.8	P12264-ND◆	1.72	60.65	106.13	ECW-F6334JL
	.36	±5%	20.5	11.9	18.5	17.5	0.8	P12265-ND◆	1.74	61.46	107.56	ECW-F6364JL
	.39	±5%	20.5	12.4	19.0	17.5	0.8	P12266-ND◆	1.76	62.27	108.97	ECW-F6394JL
	.43	±5%	20.5	13.0	19.5	17.5	0.8	P12267-ND◆	1.79	63.08	110.40	ECW-F6434JL
	.47	±5%	20.5	13.5	20.1	17.5	0.8	P12268-ND◆	1.81	63.89	111.80	ECW-F6474JL
	.51	±5%	28.0	11.1	17.3	25.0	0.8	P12269-ND◆	1.83	64.69	113.21	ECW-F6514JL
	.56	±5%	28.0	11.6	17.8	25.0	0.8	P12270-ND◆	1.88	66.31	116.05	ECW-F6564JL
	.62	±5%	28.0	12.1	18.7	25.0	0.8	P12271-ND◆	1.92	67.93	118.88	ECW-F6624JL
	.68	±5%	28.0	12.7	19.3	25.0	0.8	P12272-ND	1.97	69.55	121.72	ECW-F6684JL
	.75	±5%	28.0	13.3	19.9	25.0	0.8	P12273-ND◆	2.02	71.16	124.53	ECW-F6754JL
	.82	±5%	28.0	13.9	20.5	25.0	0.8	P12274-ND◆	2.06	72.78	127.37	ECW-F6824JL
	.91	±5%	28.0	14.6	21.2	25.0	0.8	P12275-ND◆	2.13	75.20	131.61	ECW-F6914JL
	1.0	±5%	28.0	15.5	22.3	25.0	0.8	P12276-ND◆	2.20	77.64	135.87	ECW-F6105JL
	1.1	±5%	28.0	16.3	23.0	25.0	0.8	P12277-ND◆	2.27	80.06	140.11	ECW-F6115JL
	1.2	±5%	28.0	17.0	23.7	25.0	0.8	P12278-ND◆	2.34	82.49	144.35	ECW-F6125JL
	1.3	±5%	28.0	17.6	24.4	25.0	0.8	P12279-ND◆	2.43	85.72	150.00	ECW-F6135JL

◆ ***RoHS Compliant***

NEW! ECWH(A) Series

Designed for high frequency and high current applications.

Features:

• Small size • Low-loss • Excellent frequency characteristics • Low Hum Sound Noise

Recommended Applications: • Resonance circuit for power supply

Electrical Specifications:

• Temperature Range: -40°C ~ 105°C • Rated Voltage: 800VDC • Capacitance Tolerance: ±3% • Dissipation Factor: 0.1% or less at 1kHz • Withstand Voltage: Between terminals - Rated voltage (VDC) x 150% for 60s • Insulation Resistance: 30,000 MΩ minimum, at 500VDC, 20°C for 60s

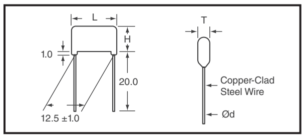

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Price Each			Panasonic Part No.
			L	T	H	d		1	50	100	
800	.01	±3%	15.4	5.4	9.8	0.6	P14255-ND	.72	.39	.34	ECW-H8103HA
	.012	±3%	15.4	5.8	10.2	0.6	P14256-ND	.64	.38	.33	ECW-H8123HA
	.015	±3%	15.4	6.2	10.6	0.6	P14257-ND	.69	.41	.35	ECW-H8153HA
	.018	±3%	15.7	6.6	11.0	0.8	P14258-ND	.76	.45	.39	ECW-H8183HA
	.022	±3%	15.7	7.1	11.5	0.8	P14259-ND	.84	.50	.43	ECW-H8223HA

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Price Each			Panasonic Part No.
			L	T	H	d		1	50	100	
800	.027	±3%	15.7	7.6	12.0	0.8	P14260-ND	.82	.52	.45	ECW-H8273HA
	.033	±3%	15.7	8.4	12.8	0.8	P14261-ND	.88	.56	.48	ECW-H8333HA
	.039	±3%	15.7	8.9	13.3	0.8	P14262-ND	1.00	.64	.55	ECW-H8393HA
	.047	±3%	15.7	9.7	14.1	0.8	P14263-ND	1.00	.69	.60	ECW-H8473HA

Panasonic

High Voltage Metallized Polypropylene Film Capacitors – ECWH(V) Series

Designed for applications where high frequency and high pulse are required.

Features: • Low-loss and inherent temperature rise • Excellent electrical characteristics • Flame-retardant epoxy resin coating

Recommended Applications: • High pulse circuits (TV, displays, electronic ballast, etc.)

Electrical Specifications:

• Temperature Range: -25°C ~ 85°C • Rated Voltage: 1250VDC or 1600VDC • Capacitance Tolerance: ±5% • Dissipation Factor: 0.1% or less at 1kHz, 0.2% or less at 10kHz • Withstand Voltage: Between terminals - Rated voltage (VDC) x 150% for 60s Terminal to Enclosure - 1500VAC for 60s • Insulation Resistance: 30,000 MΩ minimum, at 500VDC, 20° for 60s

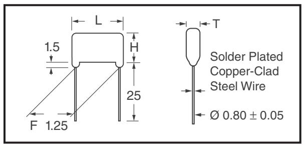

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Pricing			Panasonic Part No.
			L	T	H	F		1	50	100	
1250	.0010	±5%	18.0	6.5	13.5	15.0	P10470-ND◆	.88	27.90	48.06	ECW-H12102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10471-ND◆	.88	27.90	48.06	ECW-H12122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10472-ND	.92	29.17	50.24	ECW-H12152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10473-ND◆	.92	29.17	50.24	ECW-H12182JV
	.0022	±5%	18.0	6.5	13.5	15.0	P10474-ND◆	.96	30.35	52.27	ECW-H12222JV
	.0027	±5%	18.0	7.0	14.0	15.0	P10475-ND	.99	31.39	54.06	ECW-H12272JV
	.0033	±5%	18.0	7.5	14.5	15.0	P10476-ND◆	1.02	32.20	55.45	ECW-H12332JV
	.0039	±5%	18.0	6.0	12.5	15.0	P10477-ND◆	1.02	32.20	55.45	ECW-H12392JV
	.0047	±5%	18.0	6.0	13.0	15.0	P10478-ND◆	1.02	32.20	55.45	ECW-H12472JV
	.0056	±5%	18.0	6.5	13.5	15.0	P10479-ND◆	1.06	33.48	57.66	ECW-H12562JV
	.0068	±5%	18.0	7.0	13.5	15.0	P10480-ND◆	1.05	35.82	61.99	ECW-H12682JV
	.0082	±5%	18.0	7.5	14.0	15.0	P10481-ND◆	1.10	37.49	64.89	ECW-H12822JV
	.010	±5%	18.0	8.0	15.0	15.0	P10482-ND◆	1.13	38.62	66.85	ECW-H12103JV
	.012	±5%	18.0	8.5	15.5	15.0	P10483-ND◆	1.18	40.40	69.93	ECW-H12123JV
	.015	±5%	18.0	9.5	16.0	15.0	P10484-ND◆	1.30	44.49	77.00	ECW-H12153JV
	.018	±5%	23.0	7.5	16.0	20.0	P10485-ND◆	1.45	49.58	85.82	ECW-H12183JV
	.022	±5%	23.0	8.5	16.5	20.0	P10486-ND◆	1.58	53.94	93.35	ECW-H12223JV
	.027	±5%	23.0	9.0	17.5	20.0	P10487-ND◆	1.71	60.36	105.63	ECW-H12273JV
	.033	±5%	23.0	10.0	18.5	20.0	P10488-ND◆	1.92	67.66	118.40	ECW-H12333JV
	.039	±5%	23.0	10.5	19.5	20.0	P10489-ND◆	1.94	68.57	119.99	ECW-H12393JV
	.047	±5%	23.0	11.5	20.5	20.0	P10490-ND◆	2.07	73.14	128.00	ECW-H12473JV
	.056	±5%	28.0	11.5	20.5	25.0	P10491-ND◆	2.20	77.71	136.00	ECW-H12563JV
	.068	±5%	28.0	12.5	21.5	25.0	P10492-ND	2.33	82.28	144.00	ECW-H12683JV
	.082	±5%	28.0	14.0	22.5	25.0	P10493-ND	2.46	86.86	152.00	ECW-H12823JV
	.10	±5%	28.0	15.5	24.0	25.0	P10494-ND◆	2.59	91.43	160.00	ECW-H12104JV

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Pricing			Panasonic Part No.
			L	T	H	F		1	50	100	
1600	.0010	±5%	18.0	6.5	13.5	15.0	P10495-ND◆	.79	23.14	39.67	ECW-H16102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10496-ND◆	.79	23.14	39.67	ECW-H16122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10497-ND◆	.79	23.14	39.67	ECW-H16152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10498-ND◆	.79	23.14	39.67	ECW-H16182JV
	.0022	±5%	18.0	6.0	12.5	15.0	P10499-ND◆	.79	23.14	39.67	ECW-H16222JV
	.0027	±5%	18.0	6.0	13.0	15.0	P10500-ND◆	.79	23.14	39.67	ECW-H16272JV
	.0033	±5%	18.0	6.5	13.5	15.0	P10501-ND◆	.79	23.14	39.67	ECW-H16332JV
	.0039	±5%	18.0	7.0	14.0	15.0	P10502-ND◆	.79	23.14	39.67	ECW-H16392JV
	.0047	±5%	23.0	6.5	14.5	20.0	P10503-ND◆	.85	26.78	46.13	ECW-H16472JV
	.0056	±5%	23.0	6.5	15.0	20.0	P10504-ND◆	.85	26.78	46.13	ECW-H16562JV
	.0068	±5%	23.0	7.0	15.5	20.0	P10505-ND◆	.85	26.78	46.13	ECW-H16682JV
	.0082	±5%	23.0	7.5	16.0	20.0	P10506-ND◆	.85	26.78	46.13	ECW-H16822JV
	.010	±5%	23.0	8.0	16.5	20.0	P10507-ND◆	.85	26.78	46.13	ECW-H16103JV
	.012	±5%	23.0	9.0	17.0	20.0	P10508-ND◆	1.78	60.87	105.35	ECW-H16123JV
	.015	±5%	23.0	9.5	18.0	20.0	P10509-ND◆	1.78	60.87	105.35	ECW-H16153JV
	.018	±5%	23.0	10.5	19.5	20.0	P10510-ND◆	1.78	60.87	105.35	ECW-H16183JV
	.022	±5%	28.0	9.5	18.0	25.0	P10511-ND◆	2.11	74.64	130.62	ECW-H16223JV
	.027	±5%	28.0	10.5	19.5	25.0	P10512-ND◆	2.48	87.59	153.28	ECW-H16273JV
	.033	±5%	28.0	11.5	20.5	25.0	P10513-ND◆	2.48	87.59	153.28	ECW-H16333JV
	.039	±5%	28.0	13.5	22.0	25.0	P10514-ND◆	2.48	87.59	153.28	ECW-H16393JV
	.047	±5%	28.0	15.0	23.5	25.0	P10515-ND◆	2.48	87.59	153.28	ECW-H16473JV
	.056	±5%	28.0	16.0	24.5	25.0	P10516-ND◆	2.48	87.59	153.28	ECW-H16563JV

◆ ***RoHS Compliant***

Metallized Paper Film Capacitors – PME271Y Series

Typical Applications: These capacitors are intended for use as interference suppressors in Y2 (line-to-earth) applications.

Construction: Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

Features: • Temperature Range: -40°C ~ 100°C • ENEC, UL, CSA approved

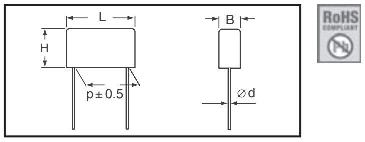

WV (AC)	Cap. (µF)	Tol. (%)	Dimensions - mm B	H	L	p	ød	Digi-Key Part No.	Pricing 1	10	Kemet Part No.
250	.0010	±20	3.9	7.5	13.5	10.2	0.6	399-5409-ND	1.06	8.35	PME271Y410MR30
	.0022	±20	3.9	7.5	13.5	10.2	0.6	399-5410-ND	1.08	8.55	PME271Y422MR30
	.0047	±20	5.1	10.5	13.5	10.2	0.6	399-5411-ND	1.13	8.89	PME271Y447MR30
	.010	±20	5.2	10.5	18.5	15.2	0.8	399-5412-ND	1.15	9.11	PME271Y510MR30
	.022	±20	7.3	13.0	18.5	15.2	0.8	399-5413-ND	1.35	10.70	PME271Y522MR30
	.047	±20	9.0	15.0	24.0	20.3	0.8	399-5414-ND	1.88	14.83	PME271Y547MR30

Metallized Polypropylene Film Capacitors – PHE840 and PHE850 Series

Typical Applications: For worldwide use as electromagnetic interference suppressor in all X2 and across-the-line applications and Y2 (line-to-earth) applications.

Construction: Metallized polypropylene film encapsulated with self-extinguishing epoxy resin in a box of material meeting the requirements of UL 94V-0.

Features: • Temp. Range: PHE840: -55°C ~ 105°C; PHE850: -55°C ~ 110°C • ENEC, UL, cUL approved

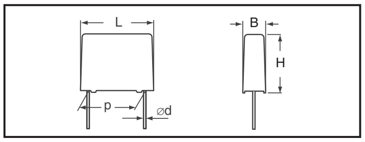

WV (AC)	Cap. (µF)	Tol. (%)	Dimensions - mm B	H	L	p	ød	Digi-Key Part No.	Pricing 1	10	Kemet Part No.
								PHE840 Series			
275/280	.10	±20	5.5	12.5	18.0	15.0	0.8	399-5426-ND	.71	5.26	PHE840MB6100MB05R17
	.22	±20	7.5	14.5	18.0	15.0	0.8	399-5427-ND	.81	5.96	PHE840MX6220MB06R17
	.47	±20	11.0	19.0	18.0	15.0	0.8	399-5428-ND	.95	7.53	PHE840MB6470MB16R17
	.47	±20	8.0	16.0	26.0	22.5	0.8	399-5429-ND	1.07	8.42	PHE840MY6470MD14R06L2
	1.0	±20	11.0	21.5	26.0	22.5	0.8	399-5430-ND	1.74	13.71	PHE840MY7100MD16R06L2
	1.0	±20	10.5	20.5	31.5	27.5	0.8	399-5431-ND	2.83	22.91	PHE840MZ7100MF11R06L2
	2.2	±20	17.5	28.0	31.5	27.5	0.8	399-5432-ND	3.40	27.43	PHE840MZ7220MF14R06L2
	2.2	±20	13.0	24.0	41.0	37.5	1.0	399-5433-ND	4.53	36.54	PHE840MR7220MR05R06L2
								PHE850 Series			
300	.0010	±20	4.0	9.0	13.0	10.0	0.6	399-5415-ND	.39	2.73	PHE850EA4100MA01R17
	.0022	±20	4.0	9.0	13.0	10.0	0.6	399-5416-ND	.41	2.92	PHE850EA4220MA01R17
	.0033	±20	4.5	10.5	13.0	10.0	0.6	399-5418-ND	.46	3.25	PHE850EA4330MA02R17
	.0047	±20	5.0	11.0	13.0	10.0	0.6	399-5417-ND	.50	3.54	PHE850EA4470MA03R17
	.010	±20	5.5	10.5	18.0	15.0	0.6	399-5419-ND	.63	4.48	PHE850EB5100MB04R17
	.022	±20	7.5	14.5	18.0	15.0	0.8	399-5420-ND	.74	5.47	PHE850EB5220MB06R17
	.047	±20	9.5	17.5	18.0	15.0	0.8	399-5421-ND	.97	7.34	PHE850EB5470MB14R17
	.10	±20	10.5	19.0	26.0	22.5	0.8	399-5422-ND	1.18	9.34	PHE850ED6100MD18R06L2
	.22	±20	13.5	23.0	26.0	22.5	0.8	399-5423-ND	1.78	14.05	PHE850ED6220MD20R06L2
	.47	±20	17.5	28.0	31.5	27.5	0.8	399-5424-ND	2.95	23.89	PHE850EF6470MF14R06L2
	1.0	±20	19.0	36.0	41.0	37.5	1.0	399-5425-ND	5.54	49.87	PHE850ER7100MR03R06L2

Metallized Polypropylene Film Capacitors – R41/R46 MKP Series

Typical Applications: Interference suppression and across-the-line applications. Suitable for use in situations where failure of the capacitor could lead to danger of electric shock.

Protection: Plastic case, thermosetting resin-filled. Box material is solvent resistant and flame retardant according to UL 94V-0.

Features: • Operating Temperature Range: -40°C ~ 110°C • Climatic Category: 40/110/56 IEC 60068-1 • ENEC, CSA, UL, GB/T approved

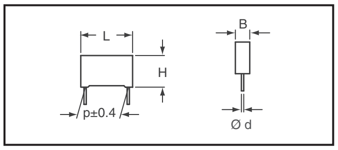

WV AC/DC	Cap. (µF)	Tol. (%)	Dimensions - mm B	H	L	p	ød	Digi-Key Part No.	Pricing 1	10	Kemet Part No.
								Y2/X1 Class			
300/1000	.0010	±20	4.0	9.0	13.0	10.0	0.6	399-5470-ND	.43	3.05	R413F11000000M
	.0022	±20	4.0	9.0	13.0	10.0	0.6	399-5471-ND	.44	3.08	R413F12200000M
	.0033	±20	4.0	9.0	13.0	10.0	0.6	399-5472-ND	.48	3.43	R413F13300000M
	.0047	±20	5.0	11.0	13.0	10.0	0.6	399-5473-ND	.52	3.70	R413F147000M1M
	.010	±20	5.0	11.0	18.0	15.0	0.6	399-5474-ND	.48	3.37	R413I21000000M
	.022	±20	6.0	12.0	18.0	15.0	0.6	399-5475-ND	.71	5.22	R413I22200000M
								X2 Class			
275/560	.010	±10	5.0	11.0	18.0	15.0	0.6	399-5457-ND	.50	3.47	R46KI21005001K
	.022	±10	5.0	11.0	18.0	15.0	0.6	399-5458-ND	.56	3.96	R46KI22200001K1
	.047	±10	5.0	11.0	18.0	15.0	0.6	399-5459-ND	.46	3.16	R46KI24700001K1
	.10	±10	5.0	11.0	18.0	15.0	0.6	399-5460-ND	.47	3.26	R46KI310000M1K
	.22	±20	7.5	13.5	18.0	15.0	0.6	399-5461-ND	.58	4.12	R46KI322000M2M
	.33	±20	9.0	12.5	18.0	15.0	0.6	399-5462-ND	.63	4.62	R46KI333000N1M
	.47	±20	10.0	16.0	18.0	15.0	0.8	399-5463-ND	.72	5.27	R46KI347000N0M
	.22	±20	6.0	15.0	26.5	22.5	0.8	399-5464-ND	.67	4.70	R46KN322000M1M
	.47	±20	7.0	16.0	26.5	22.5	0.8	399-5465-ND	.92	6.98	R46KN347000N0M
	1.0	±20	10.0	18.5	26.5	22.5	0.8	399-5466-ND	.91	6.91	R46KN410000N2M
	1.0	±10	11.0	20.0	32.0	27.5	0.8	399-5467-ND	1.47	11.60	R46KR410000M1K
	1.5	±10	13.0	22.0	32.0	27.5	0.8	399-5468-ND	1.46	11.49	R46KR415000M1K
	2.2	±10	13.0	25.0	32.0	27.5	0.8	399-5469-ND	1.82	14.39	R46KR422000M2K

Metallized Polyester Film Capacitors – R82 MKT Series

Typical Applications: By-passing, blocking, coupling, decoupling, timing, oscillator circuits

Specifications: • Dielectric: Polyester film (polyethylene terephthalate) • Protection: Plastic case, thermosetting resin-filled. Box material is solvent resistant and flame retardant. • Climatic Category: 55/105/56 IEC 60068-1 • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±5% • Lead Spacing: 5.0mm

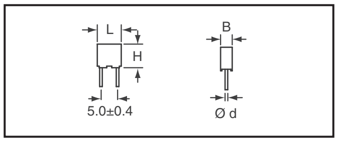

WV AC/DC	Cap. (µF)	Dimensions - mm B	H	L	ød	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape and Box† Qty.	Pricing	Kemet Part No.
40/63	.10	2.5	6.5	7.2	0.5	399-5444-1-ND	3.20	16.73	3,500	58.20/M	R82DC3100DQ50J
	.22	2.5	6.5	7.2	0.5	399-5445-1-ND	3.76	19.67	3,500	68.40/M	R82DC3220DQ60J
	.47	3.5	7.5	7.2	0.5	399-5446-1-ND	4.17	25.10	2,500	90.36/M	R82DC3470DQ60J
	1.0	5.0	10.0	7.2	0.5	399-5447-1-ND	5.24	32.84	1,700	132.95/M	R82DC4100DQ60J
63/100	.0010	2.5	6.5	7.2	0.5	399-5448-1-ND	3.18	16.62	3,500	57.80/M	R82EC1100DQ50J
	.0047	2.5	6.5	7.2	0.5	399-5449-1-ND	3.25	16.96	3,500	59.00/M	R82EC1470DQ50J
	.010	2.5	6.5	7.2	0.5	399-5450-1-ND	2.84	14.84	3,500	51.60/M	R82EC2100DQ50J
	.022	2.5	6.5	7.2	0.5	399-5451-1-ND	3.38	17.65	3,500	61.40/M	R82EC2220DQ50J
	.047	2.5	6.5	7.2	0.5	399-5452-1-ND	3.40	17.77	3,500	61.80/M	R82EC2470DQ60J
	.10	2.5	6.5	7.2	0.5	399-5453-1-ND	3.21	16.79	3,500	58.40/M	R82EC3100DQ70J
	.47	4.5	9.5	7.2	0.5	399-5454-1-ND	5.73	34.50	1,900	131.10/M	R82EC3470DQ70J
	1.0	6.0	11.0	7.2	0.5	399-5455-1-ND	7.75	48.59	1,400	196.70/M	R82EC4100DQ70J
140/250	.10	4.5	9.5	7.2	0.5	399-5456-1-ND	4.85	29.20	1,900	110.96/M	R82IC3100DQ60J

† For Tape and Box part number, change 1-ND to 3-ND.

Metallized Polyester Film Capacitors – MMK Series

Typical Applications: Bypassing, signal coupling. General purpose for highest reliability.

Construction: Metallized polyester film capacitor. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.

Features: • Climatic Category: 55/100/56 IEC 60068-1 • Temperature Rating: 85°C • Lead Spacing: 5.0mm

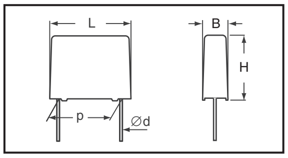

WV AC/DC	Cap. (µF)	Dimensions - mm B	H	L	p	ød	Digi-Key Part No.	Pricing 1	10	Kemet Part No.
40/63	.0010	2.5	6.5	7.2	5.0	0.5	399-5434-ND	.27	1.87	MMK5102K63J01L4BULK
	.0022	2.5	6.5	7.2	5.0	0.5	399-5435-ND	.43	2.92	MMK5222K63J01L4BULK
	.0047	2.5	6.5	7.2	5.0	0.5	399-5436-ND	.35	2.41	MMK5472K63J01L4BULK
	.010	2.5	6.5	7.2	5.0	0.5	399-5437-ND	.43	2.92	MMK5103K63J01L4BULK
	.022	2.5	6.5	7.2	5.0	0.5	399-5438-ND	.35	2.43	MMK5223K63J01L4BULK
	.047	2.5	6.5	7.2	5.0	0.5	399-5439-ND	.38	2.63	MMK5473K63J01L4BULK
	.10	2.5	6.5	7.2	5.0	0.5	399-5440-ND	.42	2.89	MMK5104K63J01L4BULK
	.22	2.5	6.5	7.2	5.0	0.5	399-5441-ND	.41	2.89	MMK5224K63J01L4BULK
	.47	3.5	8.0	7.2	5.0	0.5	399-5442-ND	.69	5.07	MMK5474K63J02L4BULK
	1.0	5.0	10.0	7.2	5.0	0.5	399-5443-ND	.95	7.25	MMK5105K63J04L4BULK

Metallized Polyester Film Capacitors – LDE Series

Construction: • Metallized polyethylene naphtalate, non-encapsulated construction, stacked technology

Features: • Excellent stability vs. temperature, frequency and time • Self-healing • High reliability • Low ESR • Typical failure mode at the end of life, open circuit • No piezoelectric effect • No cracking • No VCC

Technical Specifications: • Climatic Category: 55/125/56 IEC 60286-3 • Operating Temperature Range: -55°C ~ 125°C

Size Code	12.10	18.12	22.20
L (mm)	3.3 +0.3/-0.1	4.7 +0.3/-0.2	6.0 ±0.3
W (mm)	2.5 ±0.3	3.3 ±0.3	5.0 ±0.4

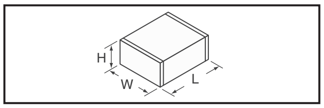

WV DC	Cap. (µF)	Tol. (%)	Size Code	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape and Reel† Qty.	Pricing	Kemet Part No.
50	.10	±10	12.10	2.1	399-5476-1-ND	10.09	74.07	2,250	311.32/M	LDECB3100KA0N00
	.47	±10	22.20	2.4	399-5477-1-ND	14.14	113.78	3,000	482.72/M	LDECD3470KA5N00
	1.0	±10	22.20	4.4	399-5478-1-ND	18.70	165.00	1,750	770.00/M	LDECD4100KA0N00
63	.10	±10	18.12	2.4	399-5479-1-ND	9.68	71.04	3,000	298.56/M	LDEDC3100KA5N00
100	.10	±10	18.12	2.4	399-5480-1-ND	9.65	70.83	3,000	297.69/M	LDEEC3100KA5N00
250	.10	±10	22.20	4.1	399-5481-1-ND	13.89	111.80	1,750	508.20/M	LDEID3100KA0N00
630	.010	±10	22.20	3.0	399-5482-1-ND	11.67	85.70	2,250	360.19/M	LDEPD2100KA5N00

† For Tape and Reel part number, change 1-ND to 2-ND.

VISHAY. BCcomponents

Metallized Polypropylene Filter Capacitors

MKP 416 Series

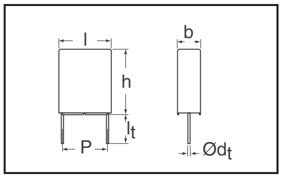

Applications: • Low losses due to low contact resistance and low loss dielectric result in applications where high frequency occurs or high stability is preferred • Their small dimensions make them suitable for circuits with high packaging density

Specifications:
• **Rated Temperature (DC):** 85°C • **Capacitance Tolerance:** ±2%

Voltage (VDC)	Capaci-tance (µF)	Dimensions - mm						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	lt	ødt		1	10	50	
MKP 416 Series												
63	.036	4.5	9.0	7.2	5.0	4.0	.50	BC2065-ND◆	1.01	.80	.70	BFC2 416 43603
	.039	4.5	9.0	7.2	5.0	4.0	.50	BC2066-ND◆	1.01	.80	.70	BFC2 416 43903
	.047	4.5	9.0	7.2	5.0	4.0	.50	BC2068-ND◆	1.05	.83	.72	BFC2 416 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2069-ND◆	1.05	.83	.72	BFC2 416 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2070-ND◆	1.06	.84	.73	BFC2 416 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2071-ND	1.10	.87	.76	BFC2 416 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2072-ND◆	1.13	.90	.78	BFC2 416 46803
	.075	6.0	11.0	7.2	5.0	4.0	.50	BC2073-ND	1.13	.90	.78	BFC2 416 47503
	.082	6.0	11.0	7.2	5.0	4.0	.50	BC2074-ND◆	1.16	.92	.80	BFC2 416 48203
	.091	6.0	11.0	7.2	5.0	4.0	.50	BC2075-ND	1.16	.92	.80	BFC2 416 49103
	.10	6.0	11.0	7.2	5.0	4.0	.50	BC2054-ND◆	1.16	.92	.80	BFC2 416 41004
	.11	6.0	11.0	7.2	5.0	4.0	.50	BC2055-ND	1.22	.97	.84	BFC2 416 41104
	.12	6.0	11.0	7.2	5.0	4.0	.50	BC2056-ND	1.25	.99	.86	BFC2 416 41204
	.13	5.0	11.0	12.5	10.0	4.0	.60	BC2057-ND	1.25	.99	.86	BFC2 416 41304
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2058-ND◆	1.28	1.01	.88	BFC2 416 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2059-ND	1.31	1.04	.90	BFC2 416 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2060-ND	1.35	1.07	.93	BFC2 416 41804
63	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2061-ND◆	1.38	1.09	.95	BFC2 416 42004
	.22	6.0	12.0	12.5	10.0	4.0	.60	BC2062-ND◆	1.40	1.11	.96	BFC2 416 42204
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2063-ND	1.47	1.17	1.01	BFC2 416 42404
	.27	6.0	12.0	12.5	10.0	4.0	.60	BC2064-ND◆	1.53	1.21	1.05	BFC2 416 42704
	.30	6.0	12.0	17.5	15.0	3.5	.60	BC2078-ND◆	1.49	1.18	1.02	BFC2 416 73004
	.33	6.0	12.0	17.5	15.0	3.5	.60	BC2079-ND◆	1.53	1.21	1.05	BFC2 416 73304
	.36	6.0	12.0	17.5	15.0	3.5	.60	BC2080-ND	1.60	1.26	1.10	BFC2 416 73604
	.39	6.0	12.0	17.5	15.0	3.5	.60	BC2081-ND	1.67	1.32	1.15	BFC2 416 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2082-ND◆	1.75	1.38	1.20	BFC2 416 74304
	.47	7.0	13.5	17.5	15.0	3.5	.80	BC2083-ND◆	1.81	1.43	1.24	BFC2 416 74704
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2084-ND	1.70	1.38	1.20	BFC2 416 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2085-ND◆	1.73	1.40	1.22	BFC2 416 75604
	.68	8.5	15.0	17.5	15.0	3.5	.80	BC2087-ND◆	1.90	1.54	1.35	BFC2 416 76804
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2088-ND	2.02	1.64	1.43	BFC2 416 77504
	1.0	10.0	16.5	17.5	15.0	3.5	.80	BC2076-ND◆	2.47	2.00	1.75	BFC2 416 71005
	1.1	10.0	16.5	17.5	15.0	3.5	.80	BC2077-ND◆	2.67	2.16	1.89	BFC2 416 71105

◆ ***RoHS Compliant***

AC and Pulse Double Metallized Polypropylene Film Capacitors

MMKP 383 Series

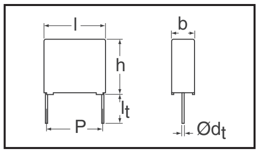

Features: • Low contact resistance • Low loss dielectric • Small dimensions for high density packaging

Applications: • Electronic lighting, for example, Ballast • Motor control circuits • S-Correction • Where steep pulses occur, for example, SMPS (switch mode power supplies) • For flyback applications please use 1400V series • For hot asphalt encapsulation process

Specifications: • **Rated Temperature (DC):** 85°C • **Rated Temperature (AC):** 105°C • **Maximum Application Temperature:** 105°C • **Capacitance Tolerance:** ±5%

Voltage	Capaci-tance (µF)	Dimensions - mm						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	lt	ødt		1	10	50	
630DC/ 220AC	.033	5.0	11.0	17.5	15.0	3.5	.80	BC1863-ND◆	1.03	.82	.71	BFC2 383 20333
	.043	6.0	12.0	17.5	15.0	3.5	.80	BC1869-ND	1.19	.94	.82	BFC2 383 20433
	.047	6.0	12.0	17.5	15.0	3.5	.80	BC1871-ND◆	1.13	.90	.78	BFC2 383 20473
	.051	6.0	12.0	17.5	15.0	3.5	.80	BC1873-ND◆	1.22	.97	.84	BFC2 383 20513
	.056	6.0	12.0	17.5	15.0	3.5	.80	BC1875-ND	1.16	.92	.80	BFC2 383 20563
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC1879-ND	1.27	1.01	.87	BFC2 383 20683
	.082	8.5	15.0	17.5	15.0	3.5	.80	BC1883-ND	1.35	1.07	.93	BFC2 383 20823
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC1849-ND◆	1.43	1.13	.98	BFC2 383 20104
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC1851-ND	1.67	1.32	1.15	BFC2 383 20114
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC1854-ND◆	1.69	1.34	1.16	BFC2 383 20154
	.18	8.5	18.0	26.0	22.5	3.5	.80	BC1856-ND◆	1.73	1.41	1.23	BFC2 383 20184
	.20	8.5	18.0	26.0	22.5	3.5	.80	BC1857-ND◆	1.95	1.58	1.38	BFC2 383 20204
	.22	8.5	18.0	26.0	22.5	3.5	.80	BC1858-ND◆	1.86	1.51	1.32	BFC2 383 20224
	.24	10.0	19.5	26.0	22.5	3.5	.80	BC1859-ND	2.13	1.73	1.51	BFC2 383 20244
	.30	10.0	19.5	26.0	22.5	3.5	.80	BC1862-ND◆	2.92	2.36	2.06	BFC2 383 20304
	.33	11.0	21.0	31.0	27.5	3.5	.80	BC1864-ND◆	2.76	2.24	1.95	BFC2 383 20334
	.36	11.0	21.0	31.0	27.5	3.5	.80	BC1866-ND	3.09	2.51	2.19	BFC2 383 20364
	.47	13.0	23.0	31.0	27.5	3.5	.80	BC1872-ND◆	3.28	2.66	2.32	BFC2 383 20474
	.68	15.0	25.0	31.0	27.5	3.5	.80	BC1880-ND◆	3.64	2.94	2.53	BFC2 383 20684
	1.0	18.0	28.0	31.0	27.5	3.5	.80	BC1850-ND◆	3.89	3.50	3.04	BFC2 383 20105
1000DC/ 350AC	.012	5.0	11.0	17.5	15.0	3.5	.80	BC1889-ND	1.27	1.01	.87	BFC2 383 30123
	.013	5.0	11.0	17.5	15.0	3.5	.80	BC1891-ND	1.38	1.09	.95	BFC2 383 30133
	.015	5.0	11.0	17.5	15.0	3.5	.80	BC1893-ND◆	1.31	1.04	.90	BFC2 383 30153
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	1.38	1.09	.95	BFC2 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND◆	1.54	1.22	1.06	BFC2 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND◆	1.47	1.17	1.01	BFC2 383 30223
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	1.38	1.09	.95	BFC2 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND◆	1.54	1.22	1.06	BFC2 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND◆	1.47	1.17	1.01	BFC2 383 30223
	.033	7.0	13.5	17.5	15.0	3.5	.80	BC1909-ND◆	1.69	1.34	1.16	BFC2 383 30333
	.047	8.5	15.0	17.5	15.0	3.5	.80	BC1917-ND◆	1.70	1.38	1.20	BFC2 383 30473
	.062	10.0	16.5	17.5	15.0	3.5	.80	BC1921-ND	2.09	1.69	1.48	BFC2 383 30623
	.068	7.0	16.5	26.0	22.5	3.5	.80	BC1922-ND	1.99	1.62	1.41	BFC2 383 30683
	.091	8.5	18.0	26.0	22.5	3.5	.80	BC1925-ND◆	2.61	2.12	1.85	BFC2 383 30913
1000DC/ 350AC	.10	10.0	19.5	26.0	22.5	3.5	.80	BC1887-ND◆	2.48	2.01	1.75	BFC2 383 30104
	.12	10.0	19.5	26.0	22.5	3.5	.80	BC1890-ND	2.97	2.41	2.10	BFC2 383 30124
	.15	11.0	21.0	31.0	27.5	3.5	.80	BC1894-ND◆	3.37	2.73	2.38	BFC2 383 30154
	.18	11.0	21.0	31.0	27.5	3.5	.80	BC1898-ND◆	3.42	2.76	2.37	BFC2 383 30184
	.22	13.0	23.0	31.0	27.5	3.5	.80	BC1902-ND◆	3.76	3.04	2.62	BFC2 383 30224
	.30	15.0	25.0	31.0	27.5	3.5	.80	BC1908-ND	3.99	3.60	3.12	BFC2 383 30304
	.33	15.0	25.0	31.0	27.5	3.5	.80	BC1910-ND◆	3.81	3.43	2.97	BFC2 383 30334
	.43	18.0	28.0	31.0	27.5	3.5	.80	BC1916-ND	4.81	4.33	3.76	BFC2 383 30434
	.47	18.0	28.0	31.0	27.5	3.5	.80	BC1918-ND◆	4.58	4.12	3.57	BFC2 383 30474
1600DC/ 550AC	.0033	5.0	11.0	17.5	15.0	3.5	.80	BC1987-ND◆	1.06	.84	.73	BFC2 383 50332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1989-ND	1.14	.90	.78	BFC2 383 50362
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1993-ND◆	1.19	.95	.82	BFC2 383 50432
	.0047	6.0	12.0	17.5	15.0	3.5	.80	BC1995-ND◆	1.14	.90	.78	BFC2 383 50472
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1997-ND◆	1.26	1.00	.87	BFC2 383 50512
	.0056	6.0	12.0	17.5	15.0	3.5	.80	BC1999-ND◆	1.19	.95	.82	BFC2 383 50562
	.0068	7.0	13.5	17.5	15.0	3.5	.80	BC2003-ND◆	1.26	1.00	.87	BFC2 383 50682
	.0075	7.0	13.5	17.5	15.0	3.5	.80	BC2005-ND	1.40	1.11	.96	BFC2 383 50752
	.0082	8.5	15.0	17.5	15.0	3.5	.80	BC2007-ND◆	1.33	1.05	.91	BFC2 383 50822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC2009-ND	1.47	1.17	1.01	BFC2 383 50912
	.01	8.5	15.0	17.5	15.0	3.5	.80	BC1970-ND◆	1.40	1.11	.96	BFC2 383 50103
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1972-ND◆	1.59	1.26	1.09	BFC2 383 50113
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1978-ND◆	1.64	1.30	1.13	BFC2 383 50153
	.016	7.0	16.5	26.0	22.5	3.5	.80	BC1980-ND	1.71	1.39	1.21	BFC2 383 50163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1981-ND◆	1.81	1.43	1.24	BFC2 383 50183
	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1982-ND	1.85	1.50	1.31	BFC2 383 50203
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1985-ND	1.90	1.54	1.34	BFC2 383 50273
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1988-ND◆	2.11	1.72	1.50	BFC2 383 50333
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1996-ND◆	3.03	2.46	2.15	BFC2 383 50473
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC2000-ND◆	3.25	2.63	2.30	BFC2 383 50563
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC2004-ND◆	3.31	2.67	2.30	BFC2 383 50683
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC2008-ND	3.81	3.08	2.65	BFC2 383 50823
	.10	15.0	25.0	31.0	27.5	3.5	.80	BC1971-ND◆	4.07	3.28	2.83	BFC2 383 50104
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1977-ND	4.50	4.05	3.51	BFC2 383 50134
	.15	18.0	28.0	31.0	27.5	3.5	.80	BC1979-ND◆	4.29	3.86	3.35	BFC2 383 50154

◆ ***RoHS Compliant***

Interference Suppression Film Capacitors

MKP 338 X1, MKP 338 X2, MKP 338 6 Y2, and MKP 339 X2 Series

Feature:
- Consists of a low-inductive wound cell of metallized polypropylene film, potted in a flame-retardant case

X1 Applications:
- For X1 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring a 4kV peak pulse voltage test UL1414 and CSA-C22.2 No. 1 specifications

X2 Applications:
- For X2 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring for X2 a 2.5kV peak pulse voltage test and both UL1414 and CSA-C22.2 No. 1 specifications

Y2 Applications:
For standard line bypass (between line and ground) Y2 applications

X1 Specifications:
Rated (AC) Voltage, 50 to 60Hz: 440V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X1; across the line

X2 Specifications:
Rated (AC) Voltage, 50 to 60Hz: 310V **Rated (DC) Voltage:** 630V **Rated Temperature:** 110°C **C-Tol:** ±20% **Safety Class:** X2 across the line

Y2 Specifications:
Rated (AC) Voltage, 50 to 60 Hz: 300V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20%

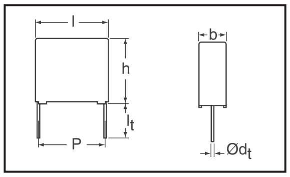

Volt-age	Cap. (µF)	Dimensions - mm b	h	l	P	lt	ødt	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
MKP 338 X1 Series (±20% Tolerance)												
440 (AC)	.01	5.0	11.0	17.5	15.0	3.5	.60	BC1574-ND◆	1.39	1.10	.96	BFC2 338 10103
	.01	5.0	11.0	17.5	15.0	25.0	.60	BC1587-ND◆	1.39	1.10	.96	BFC2 338 14103
	.015	5.0	11.0	17.5	15.0	3.5	.60	BC1577-ND◆	1.41	1.12	.97	BFC2 338 10153
	.022	5.0	11.0	17.5	15.0	3.5	.60	BC1579-ND◆	1.43	1.13	.98	BFC2 338 10223
	.022	5.0	11.0	17.5	15.0	25.0	.60	BC1592-ND◆	1.43	1.13	.98	BFC2 338 14223
	.033	6.0	12.0	17.5	15.0	3.5	.60	BC1581-ND	1.22	.97	.84	BFC2 338 10333
	.033	6.0	12.0	17.5	15.0	25.0	.60	BC1594-ND◆	1.22	.97	.84	BFC2 338 14333
	.047	7.0	13.5	17.5	15.0	3.5	.80	BC1583-ND◆	1.24	.99	.86	BFC2 338 10473
	.047	7.0	13.5	17.5	15.0	25.0	.80	BC1596-ND◆	1.24	.99	.86	BFC2 338 14473
	.068	8.5	15.0	17.5	15.0	3.5	.80	BC1585-ND◆	1.29	1.02	.89	BFC2 338 10683
	.068	8.5	15.0	17.5	15.0	25.0	.80	BC1598-ND◆	1.29	1.02	.89	BFC2 338 14683
	.10	10.0	16.5	17.5	15.0	3.5	.80	BC1575-ND◆	1.37	1.09	.94	BFC2 338 10104
	.10	10.0	16.5	17.5	15.0	25.0	.80	BC1588-ND◆	1.37	1.09	.94	BFC2 338 14104
	.15	8.5	18.0	26.0	22.5	3.5	.80	BC1578-ND◆	1.79	1.42	1.23	BFC2 338 10154
	.15	8.5	18.0	26.0	22.5	25.0	.80	BC1591-ND◆	1.79	1.42	1.23	BFC2 338 14154
	.22	10.0	19.5	26.0	22.5	3.5	.80	BC1580-ND◆	1.75	1.42	1.24	BFC2 338 10224
	.22	10.0	19.5	26.0	22.5	25.0	.80	BC1593-ND◆	1.75	1.42	1.24	BFC2 338 14224
	.33	13.0	23.0	31.0	27.5	3.5	.80	BC1582-ND◆	2.42	1.96	1.71	BFC2 338 10334
	.33	13.0	23.0	31.0	27.5	25.0	.80	BC1595-ND◆	2.47	2.00	1.74	BFC2 338 14334
	.47	15.0	25.0	31.0	27.5	3.5	.80	BC1584-ND◆	3.12	2.53	2.21	BFC2 338 10474
	.47	15.0	25.0	31.0	27.5	25.0	.80	BC1597-ND◆	3.12	2.53	2.21	BFC2 338 14474
	.68	18.0	28.0	31.0	27.5	3.5	.80	BC1586-ND◆	3.80	3.07	2.64	BFC2 338 10684
	1.0	21.0	31.0	31.0	27.5	3.5	.80	BC1576-ND◆	4.13	3.72	3.23	BFC2 338 10105
	1.0	21.0	31.0	31.0	27.5	25.0	.80	BC1589-ND◆	4.22	3.81	3.30	BFC2 338 14105
MKP 338 X2 Series (±20% Tolerance)												
310 (AC)	.001	4.0	9.0	10.0	7.5	3.5	.50	BC1599-ND◆	.84	.63	.50	BFC2 338 20102
	.0015	4.0	9.0	10.0	7.5	3.5	.50	BC1603-ND	.84	.63	.50	BFC2 338 20152
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC1607-ND◆	.82	.63	.52	BFC2 338 20222
	.0033	4.0	9.0	10.0	7.5	3.5	.50	BC1611-ND◆	.89	.68	.56	BFC2 338 20332
	.0047	4.0	9.0	10.0	7.5	3.5	.50	BC1615-ND◆	.92	.70	.58	BFC2 338 20472
	.0068	4.0	9.0	10.0	7.5	3.5	.50	BC1618-ND◆	.98	.75	.62	BFC2 338 20682
	.01	4.0	9.0	10.0	7.5	3.5	.50	BC1600-ND◆	1.03	.78	.65	BFC2 338 20103
	.015	4.0	9.0	10.0	7.5	3.5	.50	BC1604-ND◆	1.04	.79	.66	BFC2 338 20153
	.022	4.0	9.0	10.0	7.5	3.5	.50	BC1608-ND◆	1.05	.80	.67	BFC2 338 20223
	.033	5.0	10.5	10.0	7.5	3.5	.50	BC1612-ND◆	.91	.70	.58	BFC2 338 20333
	.047	6.0	11.5	10.0	7.5	3.5	.50	BC1616-ND◆	1.00	.77	.64	BFC2 338 20473
310 (AC)	.068	6.0	12.0	12.5	10.0	3.5	.60	BC1619-ND◆	.95	.73	.60	BFC2 338 20683
	.10	6.0	12.0	12.5	10.0	3.5	.60	BC1601-ND◆	1.01	.77	.64	BFC2 338 20104
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC1605-ND◆	1.07	.81	.68	BFC2 338 20154
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1609-ND◆	1.21	.96	.83	BFC2 338 20224
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1613-ND◆	1.37	1.09	.95	BFC2 338 20334
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1617-ND◆	1.94	1.58	1.38	BFC2 338 20474
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1620-ND	2.60	2.11	1.84	BFC2 338 20684
	1.0	10.0	19.5	26.0	22.5	3.5	.80	BC1602-ND◆	3.26	2.64	2.30	BFC2 338 20105
	1.5	15.0	25.0	31.0	27.5	3.5	.80	BC1606-ND◆	3.92	3.16	2.72	BFC2 338 20155
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1610-ND◆	3.84	3.46	3.00	BFC2 338 20225
	3.3	21.0	31.0	31.0	27.5	3.5	.80	BC1614-ND◆	5.66	5.10	4.42	BFC2 338 20335
NEW! MKP 338 6 Y2 Series (±20% Tolerance) — RoHS Compliant NEW!												
300 (AC)	.001	4.0	9.0	10.0	7.5	3.5	.50	BC2595-ND	.85	.65	.54	BFC233860102
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC2596-ND	.93	.71	.59	BFC233860222
	.0033	5.0	10.5	10.0	7.5	3.5	.50	BC2597-ND	1.00	.76	.63	BFC233860332
	.0047	6.0	11.5	10.0	7.5	3.5	.50	BC2598-ND	1.03	.79	.66	BFC233860472
	.0068	5.0	11.0	17.5	15.0	3.5	.60	BC2599-ND	.98	.78	.68	BFC233860682
	.01	5.0	11.0	17.5	15.0	3.5	.60	BC2600-ND	1.02	.81	.71	BFC233860103
	.022	7.0	13.5	17.5	15.0	3.5	.80	BC2601-ND	1.05	.83	.72	BFC233860223
	.047	10.0	16.5	17.5	15.0	3.5	.80	BC2602-ND	1.17	.93	.81	BFC233860473
	.10	10.0	19.5	26.0	22.5	3.5	.80	BC2603-ND	1.82	1.44	1.25	BFC233860104
	.15	12.0	22.0	26.0	22.5	3.5	.80	BC2604-ND	2.12	1.72	1.50	BFC233860154
	.22	13.0	23.0	31.0	27.5	3.5	.80	BC2605-ND	2.96	2.40	2.09	BFC233860224
	.33	18.0	28.0	31.0	27.5	3.5	.80	BC2606-ND	4.23	3.41	2.94	BFC233860334
NEW! MKP 339 X2 Series (±20% Tolerance) — RoHS Compliant NEW!												
310 (AC)	.01	4.0	9.0	10.0	7.5	3.5	.50	BC2583-ND	.80	.61	.51	BFC233920103
	.033	4.0	9.0	10.0	7.5	3.5	.50	BC2584-ND	.92	.71	.59	BFC233920333
	.047	5.0	10.5	10.0	7.5	3.5	.50	BC2585-ND	1.02	.78	.65	BFC233920473
	.068	6.0	11.5	10.0	7.5	3.5	.50	BC2586-ND	.95	.85	.71	BFC233920683
	0.1	6.0	12.0	12.5	10.0	3.5	.60	BC2587-ND	.72	.54	.43	BFC233920104
	.22	7.0	13.5	17.5	15.0	3.5	.80	BC2588-ND	1.02	.78	.65	BFC233920224
	.33	8.5	15.0	17.5	15.0	3.5	.80	BC2589-ND	.97	.77	.67	BFC233920334
	.47	10.0	16.5	17.5	15.0	3.5	.80	BC2590-ND	1.09	.86	.75	BFC233920474
	.68	8.5	18.0	26.0	22.5	3.5	.80	BC2591-ND	1.60	1.26	1.10	BFC233920684
	1.0	10.0	19.5	26.0	22.5	3.5	.80	BC2592-ND	1.84	1.50	1.31	BFC233920105
	2.2	15.0	25.0	31.5	27.5	3.5	.80	BC2593-ND	3.31	2.67	2.30	BFC233920225
	4.7	21.0	31.0	31.0	27.5	3.5	.80	BC2594-ND	4.46	4.02	3.48	BFC233920475

◆ *RoHS Compliant*

NEW! AC and Pulse Metallized Polypropylene Film Capacitors

MKP 1839 Series

Applications: High current and high pulse operations
Reference Standards: IEC 60384-17
Climatic Testing Class Acc. To EIC 60068-1: 55/110/56
Rated Temperature: 85°C
Reliability: • Operation Life > 300,000h • Failure Rate < 5 FIT (40°C and 0.5 x U_R)
Capacitance Tolerance: ±5%

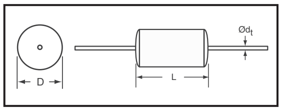

Volt-age	Cap. (µF)	Dimensions - mm D	L	ødt	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
630	2.2	23	31.5	1.0	BC2615-ND	5.89	5.24	4.59	MKP1839522634HQ
	3.3	28	31.5	1.0	BC2616-ND	7.62	6.78	5.93	MKP1839533634HQ
850	0.1	8.5	31.5	.80	BC2607-ND	2.73	2.21	1.93	MKP1839410084HQ
	.15	10	31.5	.80	BC2608-ND	3.04	2.46	2.15	MKP1839415084HQ
	.22	11.5	31.5	.80	BC2609-ND	3.16	2.55	2.19	MKP1839422084HQ
	.33	14	31.5	.80	BC2610-ND	3.53	2.85	2.46	MKP1839433084HQ
	.47	16.5	31.5	.80	BC2611-ND	4.01	3.24	2.79	MKP1839447084HQ
	.68	16.5	31.5	.80	BC2612-ND	4.40	3.55	3.05	MKP1839468084HQ
	1.0	19.5	31.5	1.0	BC2613-ND	5.55	5.00	4.33	MKP1839510084HQ
	1.5	24	31.5	1.0	BC2614-ND	6.09	5.48	4.75	MKP1839515084HQ

NEW! Metallized Polypropylene Film Capacitors

MKP 1848 Series

Applications: High performance DC filtering applications
Reference Standards: IEC 61071, IEC 60068
Dielectric: Polypropylene film
Climatic Testing Class: 40/85/56
Maximum Application Temperature: 85°C
Lifetime Expectancy: • Operation life time > 100,000h • FIT: < 10 x 10-9/h (10 per 109 component h) at 0.5 x UNdc; 40°C
Capacitance Tolerance: ±5%

Fig. 1

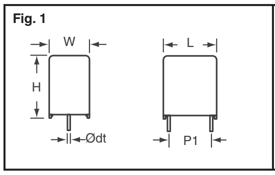

Fig. 2

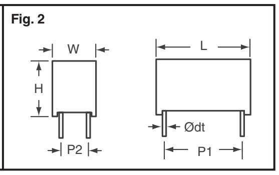

Volt-age	Cap. (µF)	Dimensions - mm W	H	L	P1	P2	ødt	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
Fig. 1 — 2 Pins												
700	3.0	11.0	21.0	32.0	27.5	—	0.8	BC2638-ND	3.99	3.22	2.77	MKP1848530704K2
	5.0	15.0	25.0	32.0	27.5	—	0.8	BC2639-ND	4.06	3.66	3.17	MKP1848550704K2
	8.0	18.0	28.0	32.0	27.5	—	0.8	BC2620-ND	5.67	5.04	4.41	MKP1848580704K2
900	1.0	9.0	19.0	32.0	27.5	—	0.8	BC2625-ND	2.95	2.39	2.09	MKP1848510094K2
	3.0	15.0	25.0	32.0	27.5	—	0.8	BC2626-ND	4.51	3.64	3.14	MKP1848530094K2
	5.0	21.0	31.0	32.0	27.5	—	0.8	BC2627-ND	4.90	4.41	3.83	MKP1848550094K2
Fig. 2 — 4 Pins												
450	15	18.5	35.5	43.0	37.5	10.2	1.0	BC2617-ND	10.64	10.11	8.52	MKP1848615454P4
	22	21.5	38.5	43.0	37.5	10.2	1.0	BC2618-ND	13.44	12.77	10.76	MKP1848622454P4
	25	21.5	38.5	43.0	37.5	10.2	1.0	BC2619-ND	15.12	14.37	12.10	MKP1848625454P4
	50	30.0	45.0	57.5	52.5	20.3	1.2	BC2634-ND	26.60	25.20	21.70	MKP1848650454Y5
450	100	45.0	45.0	57.5	52.5	20.3	1.2	BC2635-ND	45.36	42.84	37.80	MKP1848710454Y5
	200	70.0	60.0	57.5	52.5	20.3	1.2	BC2636-ND	89.32	84.70	80.08	MKP1848720454Y5
	400	130.0	60.0	57.5	52.5	20.3	1.2	BC2637-ND	233.75	226.10	212.50	MKP1848740454Y5
700	20	21.5	38.5	43.0	37.5	10.2	1.0	BC2621-ND	11.20	10.64	8.96	MKP1848620704P4
	40	25.0	45.0	57.5	52.5	20.3	1.2	BC2622-ND	19.04	18.09	15.24	MKP1848640704Y5
	80	45.0	45.0	57.5	52.5	20.3	1.2	BC2623-ND	32.98	31.25	26.91	MKP1848680704Y5
	160	70.0	60.0	57.5	52.5	20.3	1.2	BC2624-ND	67.20	63.00	56.70	MKP1848716704Y5
900	10	21.5	38.5	43.0	37.5	10.2	1.0	BC2628-ND	8.82	7.84	6.86	MKP1848610094P4
	12	21.5	38.5	43.0	37.5	10.2	1.0	BC2629-ND	10.71	9.52	8.33	MKP1848612094P4
	20	30.0	45.0	42.0	37.5	10.2/20.3	1.0	BC2630-ND	14.00	13.30	11.20	MKP1848620094P4
	30	30.0	45.0	57.5	52.5	20.3	1.2	BC2631-ND	18.48	17.56	14.79	MKP1848630094Y5
	40	35.0	50.0	57.5	52.5	20.3	1.2	BC2632-ND	21.81	20.67	17.80	MKP1848640094Y5
	50	45.0	45.0	57.5	52.5	20.3	1.2	BC2633-ND	26.60	25.20	21.70	MKP1848650094Y5

CDE CORNELL DUBILIER

Axial Leaded Power Film Capacitors

Type 940C round, axial film capacitors use polypropylene film and dual metallized electrodes for both self healing properties and high peak current carrying capability (dV/dt). This series features low ESR characteristics, excellent high frequency and high voltage capabilities.

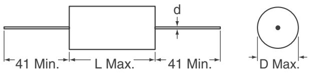

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 105°C

Rated Volt. (DC)	Cap. (µF)	Dimensions - mm			Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
		D	L	d		1	10	100	
600	0.33	13.5	34	1.0	338-1137-ND	3.47	2.97	2.48	940C6P33K-F
	1.0	21	34	1.0	338-1138-ND	5.81	4.98	4.15	940C6W1K-F
	2.0	23.5	46	1.2	338-1140-ND	8.54	7.32	6.10	940C6W2K-F
	3.3	27	54	1.2	338-1141-ND	12.08	10.35	8.63	940C6W3P3K-F
	4.7	31.5	54	1.2	338-1142-ND	16.42	14.07	11.73	940C6W4P7K-F
850	0.15	13	34	1.0	338-1143-ND	3.68	3.15	2.63	940C8P15K-F
	0.47	21	34	1.0	338-1144-ND	6.86	5.88	4.90	940C8P47K-F
	1.0	22.5	46	1.2	338-1146-ND ***NEW!***	10.19	8.73	7.28	940C8W1K-F
	2.2	32	46	1.2	338-1149-ND	19.08	16.35	13.63	940C8W2P2K-F
	2.5	34	46	1.2	338-1150-ND	21.18	18.15	15.13	940C8W2P5K-F
1,000	0.15	15	34	1.0	338-1444-ND	3.96	3.39	2.83	940C10P15K-F
	0.22	17.5	34	1.0	338-1151-ND	4.66	3.99	3.33	940C10P22K-F
	0.33	20.5	34	1.0	338-1152-ND	6.09	5.22	4.35	940C10P33K-F
	0.47	24	34	1.2	338-1153-ND	7.84	6.72	5.60	940C10P47K-F
	1.0	26	46	1.2	338-1155-ND	11.34	9.72	8.10	940C10W1K-F
	1.5	31	46	1.2	338-1156-ND	15.72	13.47	11.23	940C10W1P5K-F
	2.0	35.5	46	1.2	338-1157-ND	19.85	17.01	14.18	940C10W2K-F
1,200	0.10	15.5	34	1.0	338-1158-ND	3.85	3.30	2.75	940C12P1K-F
	0.22	21.5	34	1.0	338-1160-ND	5.85	5.01	4.18	940C12P22K-F
	0.33	20	46	1.0	338-1161-ND	6.51	5.58	4.65	940C12P33K-F
	0.47	23	46	1.2	338-1162-ND	8.44	7.23	6.03	940C12P47K-F
	1.0	33	46	1.2	338-1163-ND ***NEW!***	14.84	12.72	10.60	940C12W1K-F

Rated Volt. (DC)	Cap. (µF)	Dimensions - mm			Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
		D	L	d		1	10	100	
1,600	0.10	18	34	1.0	338-1165-ND	4.69	4.02	3.35	940C16P1K-F
	0.15	21.5	34	1.0	338-1166-ND	5.71	4.89	4.08	940C16P15K-F
	0.22	25.5	34	1.2	338-1167-ND	7.32	6.27	5.23	940C16P22K-F
	0.33	23.5	46	1.2	338-1168-ND	8.26	7.08	5.90	940C16P33K-F
	0.47	27.5	46	1.2	338-1169-ND	10.50	9.00	7.50	940C16P47K-F
	1.5	35	54	1.2	338-1164-ND	19.46	16.68	13.90	940C12W1P5K-F
	1.5	42	54	1.2	338-1171-ND	25.34	21.72	18.10	940C12W1P5K-F
2,000	0.022	11.5	34	0.8	338-1445-ND	2.94	2.52	2.10	940C20S22K-F
	0.033	13.5	34	1.0	338-1172-ND	3.22	2.76	2.30	940C20S33K-F
	0.047	15	34	1.0	338-1173-ND	3.61	3.09	2.58	940C20S47K-F
	0.068	17.5	34	1.0	338-1174-ND	4.10	3.51	2.93	940C20S68K-F
	0.10	21	34	1.0	338-1175-ND	5.18	4.44	3.70	940C20P1K-F
	0.15	19.5	46	1.0	338-1176-ND	5.74	4.92	4.10	940C20P15K-F
	0.22	22	46	1.0	338-1177-ND	7.11	6.09	5.08	940C20P22K-F
	0.33	27	46	1.2	338-1178-ND	9.63	8.25	6.88	940C20P33K-F
	0.47	32	46	1.2	338-1179-ND	12.74	10.92	9.10	940C20P47K-F
	1.0	41	54	1.2	338-1182-ND	22.05	18.90	15.75	940C20W1K-F
3,000	0.01	11.5	34	1.0	338-1183-ND	2.91	2.49	2.08	940C30S1K-F
	0.015	13.5	34	1.0	338-1184-ND	3.12	2.67	2.23	940C30S15K-F
	0.047	16.5	46	1.0	338-1185-ND	4.20	3.60	3.00	940C30S47K-F
	0.068	19	46	1.0	338-1186-ND	5.32	4.56	3.80	940C30S68K-F
	0.10	22.5	46	1.2	338-1187-ND	6.55	5.61	4.68	940C30P1K-F
	0.15	27	46	1.2	338-1188-ND	8.47	7.26	6.05	940C30P15K-F

947C Series Metallized Polypropylene Power Film Capacitors

High Capacitance, High Current, DC Link Capacitance

The 947C series uses the most advanced metallized film technology for long life, high reliability in DC link applications. Their high-voltage and high-current ratings allow for replacement of series-parallel banks of aluminum electrolytic capacitors in high ripple current applications.

Specifications:

- Operating Temperature Range with Ripple: -40°C ~ 85°C @ rated voltage
- Life Test: 5,000 hours @ 85°C @ rated voltage

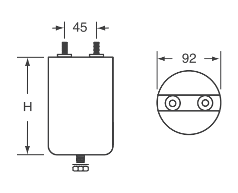

Rated Voltage (Vdc)	Cap. (µF)	Dimension H (mm)	Rated Current ΔT =40°C (A)	Typical ESR @ 10kHz (mΩ)	Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
						1	10	50	
800	360	97	72	1.3	338-1398-ND	102.66	87.27	77.00	947C361K801CAMS
	490	120	70	1.6	338-1401-ND	121.68	103.43	91.26	947C491K801CBMS
	600	145	68	2.0	338-1402-ND	142.42	121.06	106.82	947C601K801CCMS
	730	170	68	2.3	338-1403-ND	163.18	138.71	122.39	947C731K801CDMS
1,000	230	97	67	1.5	338-1394-ND	84.58	71.90	63.44	947C231K102CAMS
	310	120	63	2.0	338-1396-ND	98.28	83.54	73.71	947C311K102CBMS
	390	145	62	2.4	338-1399-ND	113.20	96.22	84.90	947C391K102CCMS
	470	170	60	2.9	338-1400-ND	128.18	108.96	96.14	947C471K102CDMS
1,200	160	97	62	1.8	338-1392-ND	76.90	65.37	57.68	947C161K122CAMS
	210	120	57	2.4	338-1393-ND	88.32	75.08	66.24	947C211K122CBMS
	270	145	56	2.9	338-1395-ND	100.78	85.67	75.59	947C271K122CCMS
	320	170	56	3.4	338-1397-ND	113.28	96.29	84.96	947C321K122CDMS

ElectroFilm Metallized Polypropylene Capacitors

Specifically designed for DC high ripple current applications. Constructed with low-loss ElectroFilm construction, the UNL series offers high ripple current capabilities and high capacitance values making them ideal for aluminum electrolytic replacement or applications requiring high ripple current capacitors.

Features: • Exceptionally low ESR • Up to 10 times the ripple current • 1.25 times rated surge voltage • Non-polar • Higher voltage ratings • Dry construction - no electrolyte • Improved reliability

Applications: • High voltage inverters • DC bus link • DC filtering

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 85°C • Insulation Resistance: ≥ 10,000MΩ

Dimensions in mm

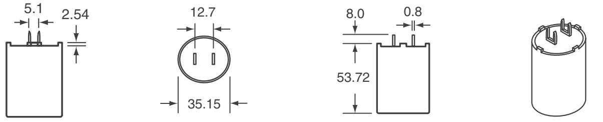

Rated Voltage (DC)	Capacitance (µF)	ESR @ 100kHz (MΩ)	Peak Current (A)	SRF (kHz)	Ripple Current @ 100kHz and 25°C	Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
							1	10	100	
400	30	6.0	900	155	24.2	338-1368-ND	23.70	20.15	16.59	UNL4W30K-F
600	30	9.0	900	155	20.7	338-1370-ND	42.14	36.12	30.10	UNL6W30K-F
1,000	10	12.0	500	269	17.5	338-1374-ND	44.35	38.01	31.68	UNL10W10K-F
1,200	7.5	13.5	450	310	16.0	338-1375-ND	40.46	34.68	28.90	UNL12W7P5K-F
1,500	4.7	15.0	338	392	15.0	338-1376-ND	22.18	18.86	15.53	UNL15W4P7K-F

NEW! 944U Series Medium Power Film Capacitors

The 944U series is specifically designed for use in medium power DC filtering applications. The robust internal construction utilizes low loss metallized polypropylene for high ripple current capability. They are packaged in a rugged UL94V-0 rated flame retardant plastic case with a UL94V-0 rated thermosetting epoxy fill.

Specifications: • Operating Temperature Range: -40°C ~ 85°C with ripple • Capacitance Tolerance: ±10%

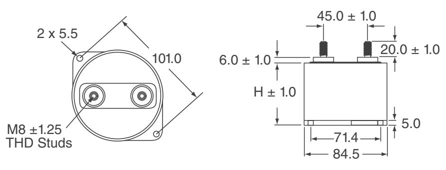

Rated Voltage (Vdc)	Cap. (µF)	Max. ESR @ 10kHz (mΩ)	Max. Irms @ 55°C (A)	Dimension H (mm)	Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
						1	10	50	
800	100	0.5	74	40	338-1918-ND	65.86	55.99	49.40	944U101K801AAM
	160	0.8	73	51	338-1923-ND	77.70	66.05	58.28	944U161K801ABM
	220	1.0	72	64	338-1925-ND	91.52	77.80	68.64	944U221K801ACM
1,000	66	0.6	70	40	338-1922-ND	59.50	50.58	44.63	944U660K102AAM
	100	0.8	68	51	338-1924-ND	81.18	69.01	60.89	944U101K102ABM
	140	1.0	65	64	338-1919-ND	78.02	66.32	58.52	944U141K102ACM
1,200	47	0.7	67	40	338-1917-ND	56.72	48.22	42.54	944U470K122AAM
	70	1.0	65	51	338-1920-ND	58.20	49.47	43.65	944U700K122ABM
	100	1.3	64	64	338-1921-ND	75.80	64.43	56.85	944U101K122ACM
1,400	33	0.8	64	40	338-1926-ND	55.58	47.25	41.69	944U330K142AAM
	52	1.1	60	51	338-1928-ND	61.76	52.50	46.32	944U520K142ABM
	70	1.4	59	64	338-1927-ND	73.34	62.34	55.01	944U700K142ACM

CDE CORNELL DUBILIER

NEW! MPF Series AC Motor Run Capacitors

RoHS COMPLIANT

Oil Filled Metallized Polypropylene Capacitors

The MPF AC metallized polypropylene film dielectric capacitors offer a reliable option for AC applications. All devices are oil filled in metal cases with 4-prong quick disconnect terminals for easy assembly. These capacitors pack high capacitance and voltage capabilities into a small, light-weight package. The MPF is internally protected for fail-safe operation and they have extremely low DF that is ideal for AC motor-run applications.

Specifications:
• Capacitance Tolerance: ±10% • Operating Temperature Range: -40°C ~ 70°C • Dissipation Factor: 0.1% maximum @ 60Hz

Fig. 1

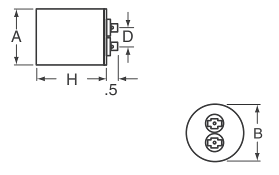

Fig. 2

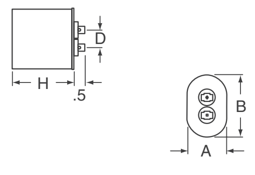

Style Code	Fig. 1 — Round - Dimensions (Inches) A	B	D	Industry Type
21	1.75	1.875	0.812	1.75 Round
23	2.0	2.125	0.812	2.0 Round
24	2.5	2.625	0.812	2.5 Round

Style Code	Fig. 2 — Oval - Dimensions (Inches) A	B	D	Industry Type
32	1.312	2.156	0.812	1.25 Flat Oval
37	1.906	2.906	0.812	1.75 Flat Oval

Fig.	Capacitance (µF)	Style Code	Dim. H (Inches)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
				Round 370VAC				
1	10.0	21	2.63	338-1853-ND	15.31	13.13	10.94	21FD3710-F
	15.0	21	2.63	338-1854-ND	16.90	14.49	12.07	21FD3715-F
	17.5	21	2.63	338-1855-ND	18.07	15.49	12.91	21FD37175-F
	20.0	21	2.63	338-1856-ND	19.39	16.63	13.86	21FD3720-F
	25.0	21	3.00	338-1857-ND	20.56	17.63	14.69	21FD3725-F
	30.0	21	3.00	338-1858-ND	22.38	19.19	15.99	21FD3730-F
	35.0	21	3.75	338-1859-ND	23.55	20.19	16.83	21FD3735-F
	40.0	21	3.75	338-1860-ND	25.14	21.55	17.96	21FD3740-F
	50.0	23	3.75	338-1861-ND	31.41	26.93	22.44	23FD3750-F
	60.0	23	3.75	338-1862-ND	38.06	32.63	27.19	23FD3760-F
	70.0	24	3.75	338-1863-ND	24.24	20.60	16.97	24FD3770-F
				Oval 370VAC				
2	2.0	32	2.13	338-1864-ND	13.04	11.18	9.32	32FD3702-F
	3.0	32	2.13	338-1865-ND	13.04	11.18	9.32	32FD3703-F
	4.0	32	2.13	338-1866-ND	13.49	11.57	9.64	32FD3704-F
	5.0	32	2.38	338-1867-ND	11.79	10.11	8.43	32FD3705-F
	6.0	32	2.38	338-1868-ND	12.17	10.44	8.70	32FD3706-F
	7.5	32	2.38	338-1869-ND	12.55	10.76	8.97	32FD37075-F
	10.0	32	2.63	338-1870-ND	14.14	12.12	10.10	32FD3710-F
	15.0	37	2.63	338-1871-ND	18.48	15.85	13.21	37FD3715-F
	20.0	37	2.63	338-1872-ND	20.03	17.18	14.31	37FD3720-F

NEW! SF Series Motor Run and Power Supply Capacitors

RoHS COMPLIANT

Oil Filled / Impregnated Metallized Polypropylene Capacitors

The SF Series AC rated metallized polypropylene capacitors provide starting torque and power factor correction for split phase motors typically used in refrigeration and air conditioning motor-run applications. Type SF also may be used to provide noise suppression, voltage regulation and line current reduction in power supply applications.
Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -40°C ~ 70°C • Dissipation Factor: <0.1%

Fig. 1

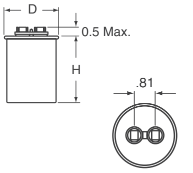

Fig. 2

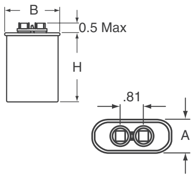

Case Code	Fig. 1 Round - Dim. (Inches) D
P	1.87
S	2.12
T	2.62

Case Code	Fig. 2 — Oval - Dim. (Inches) A	B
A	1.31	2.16
B	1.56	2.69
C	1.91	2.91
D	1.97	3.66

Fig.	Capacitance (µF)	Case Code	Dim. H (Inches)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
				Round 370VAC				
1	12.5	P	2.38	338-1900-ND	13.72	11.77	9.81	SFP37S12.5K238B-F
	15.0	P	2.38	338-1901-ND	15.31	13.13	10.94	SFP37S15K238B-F
	20.0	P	2.38	338-1902-ND	16.37	14.03	11.70	SFP37S20K238B-F
	30.0	P	2.88	338-1903-ND	19.62	16.82	14.02	SFP37S30K288B-F
	35.0	S	2.88	338-1906-ND	22.15	18.99	15.83	SFS37S35K288B-F
	40.0	S	2.88	338-1907-ND	23.10	19.80	16.50	SFS37S40K288B-F
	50.0	S	3.75	338-1908-ND	25.59	21.94	18.28	SFS37S50K375B-F
	60.0	T	3.03	338-1910-ND	32.89	28.19	23.49	SFT37S60K303B-F
				Round 440VAC				
1	15.0	P	2.88	338-1904-ND	16.37	14.03	11.70	SFP44S15K288B-F
	20.0	P	2.88	338-1905-ND	17.58	15.07	12.56	SFP44S20K288B-F
	30.0	S	2.88	338-1909-ND	23.36	20.03	16.69	SFS44S30K288B-F
	40.0	T	3.91	338-1911-ND	29.26	25.08	20.90	SFT44S40K391B-F
	50.0	T	3.91	338-1912-ND	31.75	27.22	22.68	SFT44S50K391B-F
	60.0	T	4.75	338-1913-ND	23.13	19.67	16.20	SFT44S60K475B-F

Fig.	Capacitance (µF)	Case Code	Dim. H (Inches)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
				Oval 370VAC				
2	5.0	A	2.19	338-1876-ND	9.56	8.20	6.84	SFA37S5K219B-F
	6.0	A	2.19	338-1877-ND	9.45	8.10	6.75	SFA37S6K219B-F
	7.5	A	2.19	338-1878-ND	9.94	8.53	7.11	SFA37S7.5K219B-F
	10.0	A	2.88	338-1873-ND	11.68	10.02	8.35	SFA37S10K288B-F
	12.5	A	2.88	338-1874-ND	13.08	11.21	9.35	SFA37S12.5K288B-F
	15.0	A	2.88	338-1875-ND	14.59	12.51	10.43	SFA37S15K288B-F
	20.0	C	2.91	338-1892-ND	17.50	15.01	12.51	SFC37S20K291B-F
				Oval 440VAC				
2	5.0	A	2.19	338-1880-ND	10.89	9.34	7.78	SFA44S5K219B-F
	7.5	A	2.88	338-1881-ND	11.76	10.08	8.40	SFA44S7.5K288B-F
	10.0	A	3.75	338-1879-ND	14.89	12.77	10.64	SFA44S10K375B-F
	25.0	C	3.91	338-1893-ND	23.36	20.03	16.69	SFC44S25K391B-F
				Oval 660VAC				
2	1.0	A	1.56	338-1883-ND	8.62	7.39	6.16	SFA66S1K156B-F
	1.0	A	2.19	338-1884-ND	9.11	7.81	6.51	SFA66S1K219B-F
	2.0	A	1.56	338-1885-ND	8.85	7.59	6.32	SFA66S2K156B-F
	2.0	A	2.19	338-1886-ND	9.34	8.01	6.67	SFA66S2K219B-F
	3.0	A	2.88	338-1887-ND	11.45	9.82	8.19	SFA66S3K288B-F
	4.0	A	2.88	338-1888-ND	11.94	10.24	8.54	SFA66S4K288B-F
	5.0	A	3.75	338-1889-ND	14.02	12.02	10.02	SFA66S5K375B-F
	6.0	A	3.75	338-1890-ND	14.40	12.35	10.29	SFA66S6K375B-F
	8.0	A	4.75	338-1891-ND	19.39	16.63	13.86	SFA66S8K475B-F
	10.0	A	4.75	338-1882-ND	20.94	17.95	14.96	SFA66S10K475B-F
	10.0	C	2.91	338-1894-ND	21.62	18.54	15.45	SFC66S10K291B-F
	12.0	C	3.91	338-1895-ND	23.59	20.22	16.85	SFC66S12K391B-F
	15.0	C	3.91	338-1896-ND	24.99	21.42	17.85	SFC66S15K391B-F
	20.0	D	3.91	338-1897-ND	36.44	31.24	26.03	SFD66S20K391B-F
	25.0	D	3.91	338-1898-ND	22.33	18.99	15.64	SFD66S25K391B-F
	30.0	D	3.91	338-1899-ND	23.76	20.20	16.64	SFD66S30K391B-F

NEW! Capacitor Hardware

RoHS COMPLIANT

Fig. 1

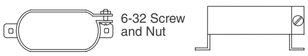

Fig. 2

Fig. 3

Fig. 4

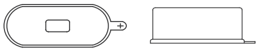

Fig.	Case Code	Description	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1	A,32	Oval Mounting Bracket	338-1848-ND	5.46	4.68	3.90	32107-1
	C,37	Oval Mounting Bracket	338-1849-ND	6.79	5.82	4.85	32107-2
	D	Oval Mounting Bracket	338-1850-ND	8.09	6.93	5.78	32107-3
2	A,32	Oval Wrap-Around Bracket	338-1851-ND	3.05	2.61	2.18	30393-5
3	P,21	Round Wrap-Around Bracket	338-1914-ND	4.99	4.28	3.57	RB175
	S,23	Round Wrap-Around Bracket	338-1915-ND	4.42	3.80	3.16	RB200
	T,24	Round Wrap-Around Bracket	338-1916-ND	4.80	4.12	3.43	RB250
4	All	Terminal Insulating Boots	338-1852-ND	4.38	3.76	3.14	44603

NEW! Metallized Polypropylene Oil Filled Motor Run Capacitors

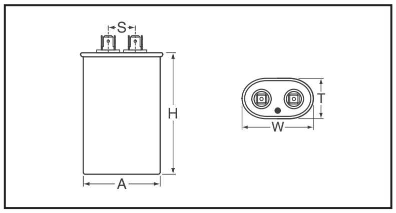

Construction: • Dielectric: polypropylene film • Electrode: Metallized film • Aluminum can, metal top • Filling material: Vegetable oil, PCB free • Insulator material as per IEC 60335-1

Features: • Self-healing properties • Low dissipation factor • Overpressure disconnection device • Highest safety level P2 to IEC 60252-1 2001-02 • High insulation resistance • IEC/EN 60335 compatible

Typical Applications: • For general sine wave applications, mainly as motor run capacitor

Specifications: • UL 810 / IEC 60252-1 / EIA 456 A Jan.89 • Rated frequency: 50/60 Hz • Climatic category: 40/070/21

Rated Voltage (VAC)	Capacitance	Dimensions (mm)					Digi-Key Part No.	Pricing			Epcos Part No.
		A	H	S	T	W		1	10	100	
370	3.0µF	51.5	55	20	34.5	54.5	495-4317-ND	4.74	39.50	316.00	B33364A3305J050
	4.0µF	51.5	55	20	34.5	54.5	495-4318-ND	4.86	40.50	324.00	B33364A3405J050
	5.0µF	51.5	55	20	34.5	54.5	495-4319-ND	4.95	41.25	330.00	B33364A3505J050
	6.0µF	51.5	55	20	34.5	54.5	495-4320-ND	5.28	44.00	352.00	B33364A3605J050
	7.5µF	51.5	55	20	34.5	54.5	495-4321-ND	5.40	45.00	360.00	B33364A3755J050
	8.0µF	51.5	55	20	34.5	54.5	495-4322-ND	5.52	46.00	368.00	B33364A3805J050
	10µF	51.5	65	20	34.5	54.5	495-4323-ND	6.09	50.75	406.00	B33364A3106J050
	12.5µF	51.5	75	20	34.5	54.5	495-4324-ND	6.72	56.00	448.00	B33364A3126J550
	15µF	51.5	75	20	34.5	54.5	495-4325-ND	7.92	66.00	528.00	B33364A3156J050
	20µF	70	65	20	48	73	495-4326-ND	9.36	78.00	624.00	B33364A3206J050
	25µF	70	65	20	48	73	495-4327-ND	10.32	86.00	688.00	B33364A3256J050
	30µF	70	75	20	48	73	495-4328-ND	12.39	103.25	826.00	B33364A3306J050
	35µF	70	75	20	48	73	495-4329-ND	13.11	109.25	874.00	B33364A3356J050
	40µF	70	85	20	48	73	495-4330-ND	14.16	118.00	944.00	B33364A3406J050
	45µF	70	100	20	48	73	495-4331-ND	16.50	137.50	1100.00	B33364A3456J050
	50µF	70	100	20	48	73	495-4332-ND	17.85	148.75	1190.00	B33364A3506J050
440	3.0µF	51.5	55	20	34.5	54.5	495-4333-ND	5.46	45.50	364.00	B33364A5305J050
	4.0µF	51.5	55	20	34.5	54.5	495-4334-ND	5.58	46.50	372.00	B33364A5405J050
	5.0µF	51.5	55	20	34.5	54.5	495-4335-ND	5.70	47.50	380.00	B33364A5505J050
	6.0µF	51.5	55	20	34.5	54.5	495-4336-ND	5.88	49.00	392.00	B33364A5605J050
	7.5µF	51.5	65	20	34.5	54.5	495-4337-ND	6.24	52.00	416.00	B33364A5755J050
	8.0µF	51.5	65	20	34.5	54.5	495-4338-ND	6.36	53.00	424.00	B33364A5805J050
	10µF	51.5	75	20	34.5	54.5	495-4339-ND	6.72	56.00	448.00	B33364A5106J050
	12.5µF	51.5	75	20	34.5	54.5	495-4340-ND	7.92	66.00	528.00	B33364A5126J550
	15µF	70	65	20	48	73	495-4341-ND	8.52	71.00	568.00	B33364A5156J050
	20µF	70	65	20	48	73	495-4342-ND	10.68	89.00	712.00	B33364A5206J050
	25µF	70	75	20	48	73	495-4343-ND	12.00	100.00	800.00	B33364A5256J050
	30µF	70	85	20	48	73	495-4344-ND	13.20	110.00	880.00	B33364A5306J050
	35µF	70	100	20	48	73	495-4345-ND	14.40	120.00	960.00	B33364A5356J050
	40µF	70	100	20	48	73	495-4346-ND	15.60	130.00	1040.00	B33364A5406J050
	45µF	90	75	20	51	93	495-4347-ND	17.70	147.50	1180.00	B33364A5456J050
	50µF	90	85	20	51	93	495-4348-ND	19.50	162.50	1300.00	B33364A5506J050

Film Chip Capacitors PEN Dielectric – CB Series

The CB Series film chip capacitors use a naked and stacked construction with metallized PEN (polyethylene naphtalate). The use of high temperature dielectric films make these capacitors suitable for IR or vapor phase reflow processes. The intrinsic elasticity of the dielectric film allows an excellent compatibility of the capacitor with all types of material for printed circuit boards. The self-healing property of film technology results in a safe open failure mode and better overall reliability.

Features: • Excellent thermal shock resistance • Low dissipation factor ESR and ESL • No piezoelectric effect • Non-polar construction

Applications: • General purpose function in low voltage applications where miniaturization and SMD is required

Specifications: • Climatic Category: 55/125/56 • Operating Temperature Range: -55°C ~ 125°C with voltage derating of 1.25%/°C between 105°C and 125°C

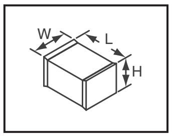

Size Code	Dimensions - (mm)	
	L	W
1206	3.3	1.6
1812	4.5	3.2
2220	5.8	5.0
2824	7.2	6.1

Size Code	WV DC	Capacitance	Dimension H Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					1	10	100		Qty.	Pricing	
1206	50	10,000pF	1.15	478-4533-1-ND	.70	4.65	38.78	478-4533-2-ND	3,900	233.00/M	CB017D0103JBA
1812	63	0.100µF	2.8	478-6003-1-ND ***NEW!***	1.24	8.28	69.00	478-6003-2-ND ***NEW!***	700	289.80	CB037D0104JBA
	63	0.220µF	3.0	478-6004-1-ND ***NEW!***	1.51	10.06	83.85	478-6004-2-ND ***NEW!***	700	352.10	CB037D0224JBA
	100	0.047µF	2.6	478-4534-1-ND	1.21	8.06	67.20	478-4534-2-ND	700	282.10	CB037E0473JBA
	100	0.10µF	3.0	478-4535-1-ND	1.24	8.27	68.90	478-4535-2-ND	700	289.10	CB037E0104JBA
2220	63	0.33µF	3.3	478-4536-1-ND	1.48	9.90	82.48	478-4536-2-ND	2,800	495.00/M	CB042D0334JBC
	63	0.47µF	3.5	478-4537-1-ND	1.64	10.96	91.30	478-4537-2-ND	2,300	548.00/M	CB042D0474JBC
	63	0.68µF	4.0	478-4538-1-ND	1.22	8.13	67.78	478-4538-2-ND	2,300	407.00/M	CB042D0684JBC
2824	100	1.0µF	5.7	478-4539-1-ND	1.80	12.00	100.00	478-4539-2-ND	900	540.00	CB052E0105JBC

TPC Polyester Film Capacitors

Description: • Dielectric: Metallized polyester film (polyethylene teraphtalate) • Stacked-film • Leads: Radial tin-plated wire • Protection: Plastic case (UL 94V-0) / Epoxy resin • Marking: Logo, Nominal Capacitance, Tolerance (EIA), DC Nominal Voltage

Features: • Non-inductive, self-healing, metallized polyester film capacitor • Insulated thermoplastic casing, epoxy resin sealed with stand-offs, flame retardant resin and case according to UL 94V-0 • Radial connections with a lead spacing of 5.08mm

Applications: • Supply decoupling, filter, integrators, treatment of analog signals, rejection of line perturbations

Standardization: • Generic Specifications: CEI 384-1/CECC 30000/UTE 83100 • Sectional

Specifications: CEI 384-2-CECC 30400/UTE 83151 • Complies with Special Specifications: CECC 30401-063 • On the LNZ list: Complies with type CPM-N; RAQ2 production, equivalent AQAP-4 of NATO

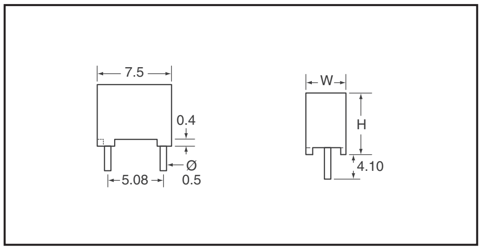

Voltage (DC)	Dim. - mm		Capacitance	Toler-ance	Digi-Key Part No.	Pricing			AVX Part No.
	H	W				1	10	100	
63	6.5	2.5	1,800pF	±5%	478-3431-ND	.10	.77	5.48	BQ014D0182J
	6.5	2.5	3,300pF	±10%	478-3423-ND	.10	.72	5.18	BQ014D0332K
	6.5	2.5	27,000pF	±10%	478-3411-ND	.10	.72	5.13	BQ014D0273K
	6.5	2.5	39,000pF	±5%	478-3419-ND	.10	.77	5.53	BQ014D0393J
	6.5	2.5	56,000pF	±5%	478-3439-ND	.11	.79	5.65	BQ014D0563J
	6.5	2.5	68,000pF	±10%	478-3436-ND	.11	.79	5.65	BQ014D0683K
100	6.5	2.5	2,200pF	±10%	478-3412-ND	.10	.72	5.15	BQ014E0222K
	6.5	2.5	3,300pF	±10%	478-3420-ND	.10	.72	5.18	BQ014E0332K
250	6.5	2.5	10,000pF	±5%	478-3430-ND	.13	.95	6.75	BQ014G0103J
400	6.5	2.5	1,000pF	±10%	478-3388-ND	.11	.79	5.65	BQ014I0102K

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX TPC Medium Power Film Capacitors

The FFB, FFVE, FFVI and FFV3 series use a non-impregnated metallized polypropylene or polyester dielectric, which features a controlled self-healing process, specially treated to have a very high dielectric strength in operating conditions up to 105°C. They have been designed for printed circuit board mounting. Furthermore, their performance allows them to be an alternative to electrolytic technology because they can withstand much higher levels of surge voltage. One unique feature of this technology (as opposed to electrolytics) is how the capacitor reacts at the end of its lifetime. With an electrolytic, there is a strong risk of explosion of the case. However, with this line of film capacitors, the capacitor will simply experience a loss of capacitance of about 2% at the end of its life. This loss of capacitance is theoretical because the capacitor continues to be functional even after this 2% decrease.

Applications: • The FFB, FFVE, FFVI and FFV3 series are particularity designed for DC filtering, low reactive power.

General Characteristics: • Climactic Category: 40/105/56 IEC 60068 (FFV3 Series) 55/105/56 IEC 60068 (FFB) • Test Voltage between terminals at 25°C is 1.5 X Vndc

The FPG series are metallized polypropylene dielectric capacitor with controlled self-healing. Reinforced metallization on margins developed for high impulse currents. Axial connections specially developed to reduce series inductance and to provide rigid mechanical mounting.

Applications: • Protection of gate turn-off thyristor (G.T.O.) • Medium frequency tuning.

General Characteristics: • Climatic category: 40/085/56 IEC 60068

The FFVS series is a specific range of DC filtering capacitors and will be used everywhere standard FFVE or FFVI series caps cannot be used due to very high frequency ripple current. Due to sophisticated internal design, stray inductance is extremely low, between 8 and 13nH function of the model.

Applications: • Induction heating • Resonant DC power supply for scanner • X-ray machines

Fig. 1

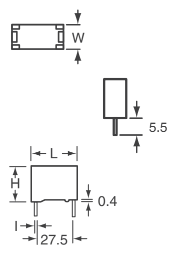

Fig. 2

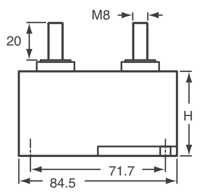

Fig. 3

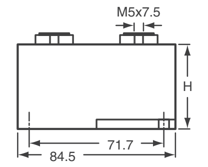

Fig. 4 ***NEW!***

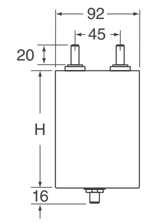

Fig. 5

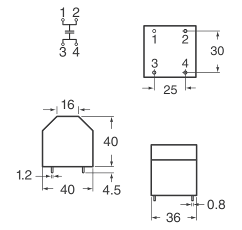

Fig. 6 ***NEW!***

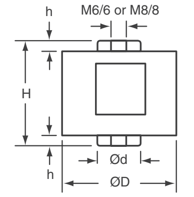

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dimensions - mm				Digi-Key Part No.	Price Each				AVX Part No.
							L	W	H	l		1	10	100	1,000	
FFB Series — RoHS Compliant																
1	Polyester	75VDC (45Vrms)	33	10	3.0	3.0	31.1	13.0	22.4	0.80	478-2589-ND	12.30	9.84	8.61	7.38	FFB14D0336K – –
	Polyester	75VDC (45Vrms)	47	10	4.3	2.0	31.1	14.6	25.7	0.80	478-5355-ND	15.75	12.60	11.03	9.45	FFB24D0476K – –
	Polyester	75VDC (45Vrms)	68	10	6.2	1.7	31.1	17.3	29.8	0.80	478-2590-ND	20.55	16.44	14.39	12.33	FFB34D0686K – –
	Polyester	75VDC (45Vrms)	82	10	7.4	1.6	31.1	20.8	31.3	1.00	478-5356-ND	25.13	20.10	17.59	15.08	FFB44D0826K – –
	Polyester	75VDC (45Vrms)	110	10	10	1.4	32.0	22.0	37.0	0.60	478-5973-ND† ***NEW!***	29.90	26.17	22.43	20.93	FFB54D0117KJC
	Polyester	75VDC (45Vrms)	110	10	10	1.4	32.0	22.0	37.0	1.00	478-2591-ND	44.38	35.50	31.07	26.63	FFB54D0117K – –
	Polyester	100VDC (60Vrms)	20	10	2.6	3.0	31.1	13.0	22.4	0.80	478-2592-ND	8.90	7.12	6.23	5.34	FFB14E0206K – –
	Polyester	100VDC (60Vrms)	27	10	3.5	2.5	31.1	14.6	25.7	0.80	478-5357-ND	10.90	8.72	7.63	6.54	FFB24E0276K – –
	Polyester	100VDC (60Vrms)	39	10	5.0	2.0	31.1	17.3	29.8	0.80	478-5358-ND	13.78	11.02	9.65	8.27	FFB34E0396K – –
	Polyester	100VDC (60Vrms)	47	10	6.0	1.7	31.1	20.8	31.3	1.00	478-2593-ND	17.08	13.66	11.96	10.25	FFB44E0476K – –
	Polyester	100VDC (60Vrms)	68	10	9.0	1.4	32.0	22.0	37.0	1.00	478-2594-ND	29.18	23.34	20.43	17.51	FFB54E0686K – –
	Polyester	300VDC (90Vrms)	7.5	10	2.4	16.0	31.1	13.0	22.4	0.80	478-2595-ND	5.85	4.68	4.10	3.51	FFB14H0755K – –
	Polyester	300VDC (90Vrms)	11	10	3.6	11.0	31.1	14.6	25.7	0.80	478-5359-ND	7.13	5.70	4.99	4.28	FFB24H0116K – –
	Polyester	300VDC (90Vrms)	16	10	5.2	8.0	31.1	17.3	29.8	0.80	478-5360-ND	8.30	6.64	5.81	4.98	FFB34H0166K – –
	Polyester	300VDC (90Vrms)	18	10	6.0	7.0	31.1	20.8	31.3	1.00	478-2596-ND	10.30	8.24	7.21	6.18	FFB44H0186K – –
	Polyester	300VDC (90Vrms)	27	10	9.0	5.0	32.0	22.0	37.0	1.00	478-2597-ND	22.28	17.82	15.60	13.37	FFB54H0276K – –
	Polyester	400VDC (105Vrms)	6.2	10	2.5	17.0	31.1	13.0	22.4	0.80	478-2598-ND	5.73	4.58	4.01	3.44	FFB14I0625K – –
	Polyester	400VDC (105Vrms)	7.5	10	3.1	14.0	31.1	14.6	25.7	0.80	478-5361-ND	4.78	3.82	3.35	2.87	FFB24I0755K – –
	Polyester	400VDC (105Vrms)	12	10	5.0	9.0	31.1	17.3	29.8	0.80	478-5362-ND	7.58	6.06	5.31	4.55	FFB34I0126K – –
	Polyester	400VDC (105Vrms)	15	10	6.2	7.0	31.1	20.8	31.3	1.00	478-2599-ND	9.73	7.78	6.81	5.84	FFB44I0156K – –
	Polyester	400VDC (105Vrms)	20	10	8.2	5.5	32.0	22.0	37.0	1.00	478-2600-ND	22.28	17.82	15.60	13.37	FFB54I0206K – –
	Polypropylene	525VDC (105Vrms)	3.9	10	5.1	30.0	31.1	13.0	22.4	0.80	478-2601-ND	5.45	4.36	3.82	3.27	FFB16J0395K – –
	Polypropylene	525VDC (105Vrms)	5.6	10	7.4	21.0	31.1	14.6	25.7	0.80	478-5363-ND	7.03	5.62	4.92	4.22	FFB26J0565K – –
	Polypropylene	525VDC (105Vrms)	8.2	10	10.9	15.0	31.1	17.3	29.8	0.80	478-5364-ND	8.58	6.86	6.01	5.15	FFB36J0825K – –
	Polypropylene	525VDC (105Vrms)	10	10	12	12.0	31.1	20.8	31.3	1.00	478-2602-ND	10.65	8.52	7.46	6.39	FFB46J0106K – –
	Polypropylene	525VDC (105Vrms)	13	10	12	9.0	32.0	22.0	37.0	1.00	478-2603-ND	21.45	17.16	15.02	12.87	FFB56J0136K – –
	Polypropylene	720VDC (120Vrms)	3.3	10	5.0	31.0	31.1	13.0	22.4	0.80	478-2604-ND	5.20	4.16	3.64	3.12	FFB16A0335K – –
	Polypropylene	720VDC (120Vrms)	4.3	10	6.5	24.0	31.1	14.6	25.7	0.80	478-5365-ND	6.68	5.34	4.68	4.01	FFB26A0435K – –
	Polypropylene	720VDC (120Vrms)	6.2	10	9.4	17.0	31.1	17.3	29.8	0.80	478-5366-ND	8.18	6.54	5.73	4.91	FFB36A0625K – –
	Polypropylene	720VDC (120Vrms)	7.5	10	11.4	14.0	31.1	20.8	31.3	1.00	478-2605-ND	10.15	8.12	7.11	6.09	FFB46A0755K – –
	Polypropylene	720VDC (120Vrms)	10	10	12	11.0	32.0	22.0	37.0	1.00	478-2606-ND	21.05	16.84	14.74	12.63	FFB56A0106K – –
	Polypropylene	900VDC (150Vrms)	2.0	10	3.6	41.0	31.1	13.0	22.4	0.80	478-2607-ND	4.95	3.96	3.47	2.97	FFB16C0205K – –
	Polypropylene	900VDC (150Vrms)	2.7	10	4.9	30.0	31.1	14.6	25.7	0.80	478-5367-ND	6.35	5.08	4.45	3.81	FFB26C0275K – –
	Polypropylene	900VDC (150Vrms)	3.9	10	7.2	21.0	31.1	17.3	29.8	0.80	478-5368-ND	7.80	6.24	5.46	4.68	FFB36C0395K – –
	Polypropylene	900VDC (150Vrms)	5.1	10	9.3	16.0	31.1	20.8	31.3	1.00	478-2608-ND	9.65	7.72	6.76	5.79	FFB46C0515K – –
	Polypropylene	900VDC (150Vrms)	6.8	10	12	12.0	32.0	22.0	37.0	1.00	478-2609-ND	14.08	11.26	9.86	8.45	FFB56C0685K – –
	Polypropylene	1100VDC (180Vrms)	1.5	10	3.3	45.0	31.1	13.0	22.4	0.80	478-2610-ND	4.70	3.76	3.29	2.82	FFB16L0155K – –
	Polypropylene	1100VDC (180Vrms)	1.8	10	3.9	40.0	31.1	14.6	25.7	0.80	478-5369-ND	6.03	4.82	4.22	3.62	FFB26L0185K – –
	Polypropylene	1100VDC (180Vrms)	2.4	10	5.3	28.0	31.1	17.3	29.8	0.80	478-5370-ND	7.38	5.90	5.17	4.43	FFB36L0245K – –
	Polypropylene	1100VDC (180Vrms)	3.0	10	6.6	23.0	31.1	20.8	31.3	1.00	478-2611-ND	9.15	7.32	6.41	5.49	FFB46L0305K – –
	Polypropylene	1100VDC (180Vrms)	4.7	10	10.3	15.0	32.0	22.0	37.0	1.00	478-2612-ND	13.40	10.72	9.38	8.04	FFB56L0475K – –
FFVE/FFVI Series – Male and Female Connections — RoHS Compliant																
2	Polyester	300VDC	220	10	100	0.8	—	—	34.0	—	478-5661-ND	129.63	103.70	90.74	77.78	FFVE4H0227K – –
	Polyester	400VDC	100	10	80	0.7	—	—	34.0	—	478-5659-ND	110.95	88.76	77.67	66.57	FFVE4I0107K – –
	Polypropylene	600VDC	100	10	100	0.6	—	—	40.0	—	478-5666-ND	111.78	89.42	78.25	67.07	FFVE6K0107K – –
	Polypropylene	700VDC	220	10	100	1.0	—	—	64.0	—	478-5978-ND ***NEW!***	108.83	93.29	87.07	80.85	FFVI6A0227K– –
	Polypropylene	800VDC	100	10	90	1.0	—	—	51.0	—	478-5658-ND	100.63	80.50	70.44	60.38	FFVE6B0107K – –
	Polypropylene	900VDC	47	10	100	0.8	—	—	40.0	—	478-5663-ND	102.38	81.90	71.67	61.43	FFVE6C0476K – –
	Polypropylene	1100VDC	47	10	100	0.8	—	—	40.0	—	478-5668-ND	102.33	81.86	71.63	61.40	FFVI6L0476K – –
	Polypropylene	1200VDC	100	10	49	2.9	—	—	64.0	—	478-5667-ND	145.13	116.10	101.59	87.08	FFVE6U0107KJ7
3	Polypropylene	500VDC	275	10	90	0.9	—	—	64.0	—	478-5979-ND ***NEW!***	106.31	91.13	85.05	78.98	FFVI6J2756KJE
	Polypropylene	600VDC	220	10	100	1.0	—	—	64.0	—	478-5670-ND	159.90	127.92	111.93	95.94	FFVE6K0227KJE

† 4-Terminals

(Continued)

AVX TPC Medium Power Film Capacitors *(Cont.)*

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dimensions - mm L	W	H	I	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
3	Polypropylene	700VDC	220	10	100	1.0	—	—	64.0	–	478-5977-ND ***NEW!***	108.83	93.29	87.07	80.85	FFVI6A0227KJE
	Polypropylene	800VDC	100	10	90	1.0	—	—	51.0	—	478-5662-ND	100.63	80.50	70.44	60.38	FFVE6B0107KJE
	Polypropylene	800VDC	140	10	100	1.3	—	—	64.0	—	478-5669-ND	142.60	114.08	99.82	85.56	FFVE6B0147KJE
	Polypropylene	900VDC	47	10	100	0.8	—	—	40.0	—	478-5665-ND	102.38	81.90	71.67	61.43	FFVE6C0476KJE
	Polypropylene	900VDC	140	10	100	1.3	—	—	64.0	—	478-5980-ND ***NEW!***	96.25	82.50	77.00	71.50	FFVI6C0147KJE
	Polypropylene	1200VDC	100	10	49	2.9	—	—	64.0	—	478-5660-ND	145.13	116.10	101.59	87.08	FFVE6U0107K7X
	Polypropylene	1900VDC	35	10	67	1.6	—	—	64.0	—	478-5664-ND	156.98	125.58	109.89	94.19	FFVE6N0356K7X

† 4-Terminals

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dim. H (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
NEW! FFL Series — RoHS Compliant NEW!													
4	Polypropylene	1000VDC	230	10	60	3.5	97	478-5981-ND	140.00	120.00	112.00	104.00	FFLI6L0237K– –
	Polypropylene	1200VDC	270	10	60	6.1	145	478-5982-ND	175.00	150.00	140.00	130.00	FFLI6U0277K – –

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
NEW! FFVS Series NEW!												
2	Polypropylene	600	22	10	78	.74	478-5820-ND	160.78	128.62	112.55	96.47	FFVS6K0226K– –
	Polypropylene	600	140	10	82	.83	478-5821-ND	212.68	170.14	148.88	127.61	FFVS6K0147K– –
	Polypropylene	800	58	10	83	.72	478-5822-ND	170.45	136.36	119.32	102.27	FFVS6B0586K– –
	Polypropylene	800	128	10	84	1.25	478-5823-ND	199.98	159.98	139.99	119.99	FFVS6B1286K– –
	Polypropylene	900	30	10	56	1.55	478-5824-ND	159.13	127.30	111.39	95.48	FFVS6C0306K– –
	Polypropylene	900	65	10	86	1.15	478-5825-ND	167.05	133.64	116.94	100.23	FFVS6C0656K– –
	Polypropylene	1000 (1kV)	95	10	63	1.98	478-5826-ND	173.18	138.54	121.23	103.91	FFVS6L0956K– –
	Polypropylene	1200 (1.2kV)	65	10	57	2.38	478-5827-ND	171.10	136.88	119.77	102.66	FFVS6U0656K– –
	Polypropylene	1900 (1.9kV)	22	10	68	1.26	478-5828-ND	173.50	138.80	121.45	104.10	FFVS6N0226K– –
FFV3 Series — RoHS Compliant												
5	Polyester	75VDC (45Vrms)	130	10	23	.56	478-5371-ND	47.65	38.12	33.36	28.59	FFV34D0137K – –
	Polyester	75VDC (45Vrms)	160	10	28	.47	478-2613-ND	41.58	36.39	31.19	29.11	FFV34D0167K – –
	Polyester	100VDC (60Vrms)	80	10	19	.67	478-5372-ND	34.78	27.82	24.35	20.87	FFV34E0806K – –
	Polyester	100VDC (60Vrms)	100	10	24	.55	478-2614-ND	34.66	30.33	26.00	24.27	FFV34E0107K – –
	Polyester	160VDC (75Vrms)	55	10	17	.77	478-5373-ND	31.10	24.88	21.77	18.66	FFV34F0556K – –
	Polyester	160VDC (75Vrms)	65	10	20	.66	478-5374-ND	32.93	26.34	23.05	19.76	FFV34F0656K – –
	Polyester	300VDC (90Vrms)	40	10	20	2.80	478-5375-ND	35.73	28.58	25.01	21.44	FFV34H0406K – –
	Polyester	300VDC (90Vrms)	50	10	26	2.25	478-2615-ND	30.10	26.34	22.58	21.07	FFV34H0506K – –
	Polyester	400VDC (105Vrms)	30	10	17	2.93	478-5376-ND	31.98	25.58	22.39	19.19	FFV34I0306K – –
	Polyester	400VDC (105Vrms)	40	10	23	2.21	478-2616-ND	30.70	26.87	23.03	21.49	FFV34I0406K – –
	Polypropylene	500VDC (105Vrms)	20	10	27	5.88	478-2617-ND	22.40	19.60	16.80	15.68	FFV36J0206K – –
	Polypropylene	500VDC (105Vrms)	25	10	33	4.72	478-5377-ND	29.08	23.26	20.36	17.45	FFV36J0256K – –
	Polypropylene	700VDC (120Vrms)	14	10	21	7.34	478-5378-ND	25.20	20.16	17.64	15.12	FFV36A0146K – –
	Polypropylene	700VDC (120Vrms)	20	10	30	5.15	478-2618-ND	23.44	20.51	17.58	16.41	FFV36A0206K – –
	Polypropylene	900VDC (150Vrms)	10	10	19	8.21	478-5379-ND	24.00	19.20	16.80	14.40	FFV36C0106K – –
	Polypropylene	900VDC (150Vrms)	13	10	25	6.33	478-2619-ND	22.44	19.64	16.83	15.71	FFV36C0136K – –
	Polypropylene	1100VDC (180Vrms)	6	10	13	11.4	478-5380-ND	23.30	18.64	16.31	13.98	FFV36L0605K – –
	Polypropylene	1100VDC (180Vrms)	9	10	20	7.61	478-2620-ND	21.80	19.08	16.35	15.26	FFV36L0905K – –

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dimensions - mm H	h	øD	ød	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
NEW! FPG Series — RoHS Compliant NEW!																
6	Polypropylene	1000VDC (600Vrms)	2.5	5	60	0.89	52.0	5.0	72.0	22.0	478-5975-ND	75.76	66.29	56.82	53.04	FPG86N0255J– –
	Polypropylene	1750VDC (800Vrms)	.47	5	12	4.04	62.0	5.0	40.0	18.0	478-5974-ND	79.92	69.93	59.94	55.95	FPG66W0474J – –
	Polypropylene	3000VDC (1400Vrms)	.12	5	15	6.0	62.0	5.0	40.0	18.0	478-5976-ND	71.18	62.29	53.39	49.83	FPG66Y0124J– –

Panasonic® AC Film Capacitors

Stack Type: Panasonic's "stack type" construction offers significant reduction in case size (compared to oil-filled can type) with a built-in mounting foot.

Features: • Compact size compared to oil-filled type capacitors • 0.187 inch (4.75mm) terminals standard (0.250 inch [6.35mm] available) • 180, 200, 230 are standard voltages • U.L. 810 (File # E76560) and C.S.A listed (CSA-C22.2 No. 0-M91 File # LR99617) • JIS standard is available. (JIS C 4908) • Primary applications: refrigeration, motor run, lighting, etc. • Flame retardant plastic case is rated 94 V-0

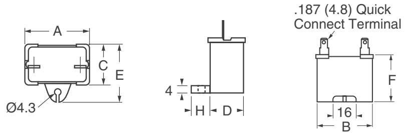

Voltage VAC	Cap. µF	Dimensions (mm) A	B	C	D	E	F	H	Digi-Key Part No.	Pricing 1	50	100	500	Panasonic Part No.
Stack Type - SQ Case														
180	7.5	39.5	38.0	17.5	16.0	28.0	30.5	11.0	P9400-ND	4.22	146.20	265.20	986.00	JS18755-AA
	10	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9401-ND	4.08	158.93	277.10	1141.00	JS18106-AA
	12	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9402-ND	4.55	177.45	309.40	1274.00	JS18126-AA
	15	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9403-ND◆	5.58	217.43	379.10	1561.00	JS18156-AA
	20	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9404-ND◆	5.85	227.50	416.00	1787.50	JS18206-AA
210	8	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9658-ND◆	3.83	149.18	260.10	1071.00	JS211805-AA
	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9405-ND	4.20	163.80	285.60	1176.00	JS21106-AA
	12	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9406-ND	4.70	183.30	319.60	1316.00	JS21126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9407-ND◆	5.65	220.35	384.20	1582.00	JS21156-AA
230	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9408-ND◆	4.93	192.08	334.90	1379.00	JS23106-AA
	12	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9409-ND	5.43	211.58	368.90	1519.00	JS23126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9410-ND	6.32	245.88	449.60	1931.88	JS23156-AA
Wound Type - Q Case														
250	10	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9411-ND◆	6.08	236.25	432.00	1856.25	JS251106-BA
	12	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9412-ND◆	6.91	268.63	491.20	2110.63	JS251126-BA
	15	50.0	48.5	30.5	28.8	41.0	36.0	11.5	P9413-ND	8.17	317.63	580.80	2495.63	JS251156-BA
440	4	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9659-ND◆	7.07	274.75	502.40	2158.75	DS441405-BA
	5	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9660-ND◆	7.54	293.13	536.00	2303.13	DS441505-BA
	6	50.0	48.5	30.5	28.8	41.0	41.5	11.5	P9661-ND◆	8.62	335.13	612.80	2633.13	DS441605-BA
Oil Wound Type — RoHS Compliant														
370	15	43.0	41.0	80.0	93.0	16.0	—	—	P9662-ND	4.38	170.72	297.67	1225.70	DS371156-CA
	20	43.0	41.0	90.0	103.0	16.0	—	—	P9663-ND	4.94	192.47	335.58	1381.80	DS371206-CA
	25	43.0	41.0	100.0	113.0	16.0	—	—	P9664-ND	5.55	216.55	377.57	1554.70	DS371256-CA
	30	43.0	41.0	110.0	123.0	16.0	—	—	P9665-ND	6.08	237.22	413.61	1703.10	DS371306-CA
	35	48.0	45.0	100.0	113.0	18.0	—	—	P9666-ND	6.03	234.41	428.64	1841.81	DS371356-CA
	40	48.0	45.0	110.0	123.0	18.0	—	—	P9667-ND	6.55	254.63	465.60	2000.63	DS371406-CA
	45	53.0	50.5	100.0	113.0	18.0	—	—	P9668-ND	7.17	278.69	509.60	2189.69	DS371456-CA
	50	53.0	50.5	110.0	123.0	18.0	—	—	P9669-ND	7.72	300.13	548.80	2358.13	DS371506-CA

◆ ***RoHS Compliant***

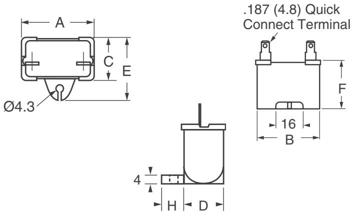

Wound Type: Panasonic's "wound type" construction brings dry film technology to higher voltage and microfarad applications, not available from our "stack type" construction.

Features: • Replacement for typical oil-filled aluminum or plastic can capacitor • Compact size —ideal where space is a premium • Built-in mounting bracket eliminates need for mounting strap • Meets U.L. 810 (File #E76560) • Primary applications: motor run, lighting, etc. • Terminals: 0.187 inch (4.75mm)

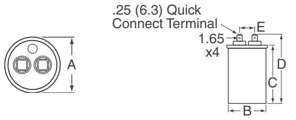

Oil Wound Type – ***Metallized polypropylene film:***

Features: • Self protection function built-in • Low-Loss and inherent temperature rise • Small and compact

Specifications: • Meets U.L. 810 (File #E76560) • Capacitance Tolerance: -5 ~ 10% • Temperature Range: -25°C ~ 70°C • Insulation Resistance: More than 1000MΩ • Dissipation Factor: Less than 0.3% • Withstand Voltage: Between Terminal: 1.75 x rated voltage for 60 seconds Terminal to Case: 2 x rated voltage for 60 seconds

Applications: • Motor run applications (Air Conditioner/ Refrigerator) • Motor start applications

Axial Ceramic Capacitors

Mechanical Parameters:

Terminal Strength: 2.2 Kg (5 lbs.) Minimum pull to destruction, per Method B5 of RS-198-CII, Test Condition A. **Lead Materials:** #24 AWG (.020" ±0.001") Tinned, Copper Clad Steel. 30% Conductivity. Temper: Soft; Tensile Strength: 65000 PSI Maximum
Body: Conformally coated Epoxy.

Electrical Parameters:

Capacitance: Measured @ 1Mhz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C ≤1000pF. Measured @ 1Khz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C >1000pF. Measured @ 1Khz @ 1.0 VRMS ±.2 VRMS @ 25°C for X7R types. **Dissipation Factor:** .1% Maximum for C0G types, 2.5% Maximum for X7R types; measurement conditions are the same as for capacitance measurement. **Dielectric Strength:** Parts are subjected for up to 5 seconds @ 25°C to 250% of Rated Voltage and will exhibit no evidence of breakdown. **Insulation Resistance:** When measured @ 25°C and Rated Voltage, the following Minimum Values will be met: 100KMΩ or 1000MΩ x µF (whichever is less). **Body Insulation:** 500VDC Minimum, in accordance with RS-198-CII. **Operating Temperature Range:** -55°C ~ 125°C for C0G, -55°C ~ 125°C for X7R.
Packaging: Mono-Axial parts are supplied in tape and reel and form per EIA RS-296.

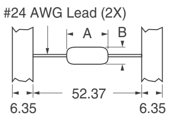

Taped and Reeled per EIA RS-296E

Size Code	Dimensions - mm	
	A Max.	B Max.
15	3.81	2.54

Type	Voltage	Capacitance	Cap. Tol. (%)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 7,000	Vishay Part No.
C0G	100V	10pf	±5	1011PHCT-ND	.38	2.98	15.58	1011PHTR-ND◆	50.00/M	A100J15C0GH5TAA
	100V	15pf	±5	1012PHCT-ND	.38	2.98	15.58	1012PHTR-ND	50.00/M	A150J15C0GH5TAA
	100V	18pf	±5	1013PHCT-ND◆	.38	2.98	15.58	1013PHTR-ND◆	50.00/M	A180J15C0GH5TAA
	100V	22pf	±5	1014PHCT-ND◆	.38	2.98	15.58	1014PHTR-ND◆	50.00/M	A220J15C0GH5TAA
	100V	27pf	±5	1015PHCT-ND◆	.38	2.98	15.58	1015PHTR-ND◆	50.00/M	A270J15C0GH5TAA
	100V	33pf	±5	1016PHCT-ND◆	.38	2.98	15.58	1016PHTR-ND◆	50.00/M	A330J15C0GH5TAA
	100V	47pf	±5	1017PHCT-ND◆	.38	2.98	15.58	1017PHTR-ND◆	50.00/M	A470J15C0GH5TAA
	50V	100pf	±5	1001PHCT-ND◆	.35	2.61	12.18	1001PHTR-ND◆	35.00/M	A101J15C0GF5TAA
	50V	180pf	±5	1003PHCT-ND◆	.11	1.00	7.22	—	—	A181J15C0GF5TAA
	50V	220pf	±5	1004PHCT-ND	.44	3.33	15.54	1004PHTR-ND	44.00/M	A221J15C0GF5TAA
	50V	330pf	±5	1005PHCT-ND◆	.38	2.98	15.58	1005PHTR-ND◆	50.00/M	A331J15C0GF5TAA
	50V	470pf	±5	1007PHCT-ND◆	.14	1.22	8.81	—	—	A471J15C0GF5TAA
	50V	560pf	±5	1008PHCT-ND	.16	1.48	10.66	—	—	A561J15C0GF5TAA
	50V	1000pf	±5	1010PHCT-ND◆	.43	3.38	17.65	1010PHTR-ND◆	57.00/M	A102J15C0GF5TAA
X7R	100V	330pf	±10	1112PHCT-ND◆	.36	2.72	12.67	1112PHTR-ND◆	36.00/M	A331K15X7RH5TAA
	100V	470pf	±10	1113PHCT-ND◆	.36	2.72	12.67	1113PHTR-ND◆	36.00/M	A471K15X7RH5TAA
	100V	680pf	±10	1114PHCT-ND◆	.36	2.72	12.67	1114PHTR-ND◆	36.00/M	A681K15X7RH5TAA
	100V	820pf	±10	1115PHCT-ND◆	.09	.81	5.88	—	—	A821K15X7RH5TAA
	100V	.001µf	±10	1116PHCT-ND◆	.36	2.67	12.46	1116PHTR-ND◆	36.00/M	A102K15X7RH5TAA
	100V	.0022µf	±10	1119PHCT-ND	.38	2.85	13.30	1119PHTR-ND◆	38.00/M	A222K15X7RH5TAA
	50V	.0033µf	±10	1101PHCT-ND◆	.08	.75	5.43	—	—	A332K15X7RF5TAA
	50V	.0047µf	±10	1102PHCT-ND◆	.33	2.51	11.69	1102PHTR-ND◆	33.00/M	A472K15X7RF5TAA
	50V	.01µf	±10	1103PHCT-ND◆	.32	2.39	11.13	1103PHTR-ND◆	32.00/M	A103K15X7RF5TAA
	50V	.022µf	±10	1105PHCT-ND	.36	2.72	12.67	1105PHTR-ND◆	36.00/M	A223K15X7RF5TAA
	50V	.033µf	±10	1106PHCT-ND◆	.39	2.90	13.51	1106PHTR-ND◆	39.00/M	A333K15X7RF5TAA
	50V	.047µf	±10	1107PHCT-ND◆	.39	2.94	13.72	1107PHTR-ND◆	39.00/M	A473K15X7RF5TAA
	50V	.1µf	±10	1109PHCT-ND◆	.38	2.87	13.37	1109PHTR-ND◆	38.00/M	A104K15X7RF5TAA

◆ ***RoHS Compliant***

Mono-Kap™

Leaded Ceramic Multilayer Capacitors

These conformally coated radial leaded capacitors are designed for commercial and industrial applications, such as: timing, coupling/decoupling, signal comparison and biasing.

Size Code	Dimensions - mm		
	W Max.	H Max.	T Max.
15	4.0	4.0	2.5
20	5.0	5.0	3.2

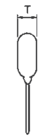

Fig. 1

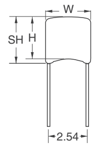

Fig. 2

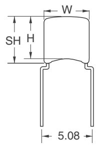

Fig.	Cap. Value	Size Code	Dim. - mm SH Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel‡ Qty.	Pricing	Vishay Part No.
Type COG 50V ±5%									
1	10pF	15	5.58	BC1001CT-ND◆	.34	2.52	4,000	34.00/M	K100J15C0GF5TL2
	12pF	15	5.58	BC1002CT-ND◆	.34	2.52	4,000	34.00/M	K120J15C0GF5TL2
	15pF	15	5.58	BC1003CT-ND	.34	2.52	4,000	34.00/M	K150J15C0GF5TL2
	18pF	15	5.58	BC1004CT-ND◆	.34	2.52	4,000	34.00/M	K180J15C0GF5TL2
	22pF	15	5.58	BC1005CT-ND◆	.34	2.52	4,000	34.00/M	K220J15C0GF5TL2
	27pF	15	5.58	BC1006CT-ND◆	.34	2.52	4,000	34.00/M	K270J15C0GF5TL2
	33pF	15	5.58	BC1007CT-ND◆	.34	2.52	4,000	34.00/M	K330J15C0GF5TL2
	39pF	15	5.58	BC1008CT-ND◆	.34	2.52	4,000	34.00/M	K390J15C0GF5TL2
	47pF	15	5.58	BC1009CT-ND◆	.34	2.52	4,000	34.00/M	K470J15C0GF5TL2
	56pF	15	5.58	BC1010CT-ND◆	.34	2.52	4,000	34.00/M	K560J15C0GF5TL2
	68pF	15	5.58	BC1011CT-ND◆	.34	2.52	4,000	34.00/M	K680J15C0GF5TL2
	82pF	15	5.58	BC1012CT-ND◆	.08	.76	—	—	K820J15C0GF5TL2
	100pF	15	5.58	BC1013CT-ND◆	.34	2.52	4,000	34.00/M	K101J15C0GF5TL2
	120pF	15	5.58	BC1014CT-ND	.41	3.05	4,000	41.00/M	K121J15C0GF5TL2
	150pF	15	5.58	BC1015CT-ND◆	.41	3.05	4,000	41.00/M	K151J15C0GF5TL2
	180pF	15	5.58	BC1016CT-ND◆	.41	3.05	4,000	41.00/M	K181J15C0GF5TL2
	220pF	15	5.58	BC1017CT-ND◆	.41	3.05	4,000	41.00/M	K221J15C0GF5TL2
	270pF	15	5.58	BC1018CT-ND◆	.35	2.75	4,000	46.00/M	K271J15C0GF5TL2
	330pF	15	5.58	BC1019CT-ND◆	.35	2.75	4,000	46.00/M	K331J15C0GF5TL2
	390pF	15	5.58	BC1020CT-ND	.35	2.75	4,000	46.00/M	K391J15C0GF5TL2
	470pF	15	5.58	BC1021CT-ND◆	.35	2.75	4,000	46.00/M	K471J15C0GF5TL2
	560pF	15	5.58	BC1022CT-ND◆	.43	3.37	4,000	57.00/M	K561J15C0GF5TL2
	680pF	15	5.58	BC1023CT-ND	.43	3.37	4,000	57.00/M	K681J15C0GF5TL2
	820pF	15	5.58	BC1024CT-ND◆	.15	1.38	—	—	K821J15C0GF5TL2
	1000pF	15	5.58	BC1025CT-ND◆	.53	4.15	4,000	85.00/M	K102J15C0GF5TL2
	1200pF	15	5.58	BC1026CT-ND	.47	3.69	4,000	76.00/M	K122J15C0GF5TL2
	1500pF	15	5.58	BC1027CT-ND◆	.47	3.69	4,000	76.00/M	K152J15C0GF5TL2
	2200pF	15	5.58	BC1029CT-ND◆	.54	4.28	4,000	88.00/M	K222J15C0GF5TL2
2	10pF	15	6.5	BC1030CT-ND	.34	2.52	4,000	34.00/M	K100J15C0GF5TH5
	15pF	15	6.5	BC1032CT-ND◆	.34	2.52	4,000	34.00/M	K150J15C0GF5TH5
	18pF	15	6.5	BC1033CT-ND◆	.08	.76	—	—	K180J15C0GF5TH5
	22pF	15	6.5	BC1034CT-ND◆	.34	2.52	4,000	34.00/M	K220J15C0GF5TH5
	27pF	15	6.5	BC1035CT-ND◆	.34	2.52	4,000	34.00/M	K270J15C0GF5TH5
	33pF	15	6.5	BC1036CT-ND◆	.34	2.52	4,000	34.00/M	K330J15C0GF5TH5
	47pF	15	6.5	BC1038CT-ND◆	.34	2.52	4,000	34.00/M	K470J15C0GF5TH5
	56pF	15	6.5	BC1039CT-ND	.34	2.52	4,000	34.00/M	K560J15C0GF5TH5
	68pF	15	6.5	BC1040CT-ND◆	.08	.76	—	—	K680J15C0GF5TH5
	82pF	15	6.5	BC1041CT-ND◆	.34	2.52	4,000	34.00/M	K820J15C0GF5TH5
	100pF	15	6.5	BC1042CT-ND◆	.34	2.52	4,000	34.00/M	K101J15C0GF5TH5
	150pF	15	6.5	BC1043CT-ND	.41	3.05	4,000	41.00/M	K151J15C0GF5TH5
	220pF	15	6.5	BC1044CT-ND◆	.41	3.05	4,000	41.00/M	K221J15C0GF5TH5
	330pF	15	6.5	BC1045CT-ND◆	.35	2.75	4,000	46.00/M	K331J15C0GF5TH5
	470pF	15	6.5	BC1046CT-ND◆	.35	2.75	4,000	46.00/M	K471J15C0GF5TH5
	1000pF	15	6.5	BC1048CT-ND◆	.53	4.15	4,000	85.00/M	K102J15C0GF5TH5
	2200pF	15	6.5	BC1050CT-ND	.54	4.28	4,000	88.00/M	K222J15C0GF5TH5
	4700pF	20	7.5	BC1052CT-ND◆	.57	5.16	—	—	K472J20C0GF5TH5
Type COG 100V ±5%									
1	10pF	15	5.58	BC1054CT-ND◆	.13	1.16	—	—	K100J15C0GH5TL2
	22pF	15	5.58	BC1055CT-ND◆	.36	2.83	4,000	48.00/M	K220J15C0GH5TL2
	100pF	15	5.58	BC1057CT-ND	.36	2.83	4,000	48.00/M	K101J15C0GH5TL2
	220pF	15	5.58	BC1058CT-ND◆	.16	1.44	—	—	K221J15C0GH5TL2
2	100pF	15	6.5	BC1064CT-ND◆	.36	2.83	4,000	48.00/M	K101J15C0GH5TH5
	220pF	15	6.5	BC1065CT-ND	.45	3.52	4,000	59.00/M	K221J15C0GH5TH5
	470pF	15	6.5	BC1066CT-ND	.42	3.33	4,000	68.00/M	K471J15C0GH5TH5

Fig.	Cap. Value	Size Code	Dim. - mm SH Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel‡ Qty.	Pricing	Vishay Part No.
Type X7R 50V ±10%									
1	220pF	15	5.58	BC1068CT-ND◆	.31	2.31	4,000	31.00/M	K221K15X7RF5TL2
	680pF	15	5.58	BC1071CT-ND◆	.08	.69	—	—	K681K15X7RF5TL2
	1000pF	15	5.58	BC1072CT-ND◆	.31	2.31	4,000	31.00/M	K102K15X7RF5TL2
	2200pF	15	5.58	BC1074CT-ND◆	.31	2.33	4,000	31.00/M	K222K15X7RF5TL2
	3300pF	15	5.58	BC1075CT-ND◆	.31	2.33	4,000	31.00/M	K332K15X7RF5TL2
	4700pF	15	5.58	BC1076CT-ND◆	.31	2.33	4,000	31.00/M	K472K15X7RF5TL2
	6800pF	15	5.58	BC1077CT-ND◆	.08	.70	—	—	K682K15X7RF5TL2
	.01µF	15	5.58	BC1078CT-ND◆	.31	2.31	4,000	31.00/M	K103K15X7RF5TL2
	.022µF	15	5.58	BC1080CT-ND◆	.35	2.61	4,000	35.00/M	K223K15X7RF5TL2
	.033µF	15	5.58	BC1081CT-ND◆	.37	2.78	4,000	37.00/M	K333K15X7RF5TL2
	.047µF	15	5.58	BC1082CT-ND◆	.37	2.76	4,000	37.00/M	K473K15X7RF5TL2
	.068µF	15	5.58	BC1083CT-ND	.13	1.19	—	—	K683K15X7RF5TL2
	.1µF	15	5.58	BC1084CT-ND◆	.36	2.69	4,000	36.00/M	K104K15X7RF5TL2
2	220pF	15	6.5	BC1085CT-ND	.31	2.31	4,000	31.00/M	K221K15X7RF5TH5
	470pF	15	6.5	BC1087CT-ND◆	.31	2.31	4,000	31.00/M	K471K15X7RF5TH5
	1000pF	15	6.5	BC1089CT-ND◆	.31	2.31	4,000	31.00/M	K102K15X7RF5TH5
	2200pF	15	6.5	BC1091CT-ND◆	.31	2.33	4,000	31.00/M	K222K15X7RF5TH5
	4700pF	15	6.5	BC1093CT-ND◆	.31	2.33	4,000	31.00/M	K472K15X7RF5TH5
	.01µF	15	6.5	BC1095CT-ND◆	.31	2.31	4,000	31.00/M	K103K15X7RF5TH5
	.022µF	15	6.5	BC1097CT-ND◆	.35	2.61	4,000	35.00/M	K223K15X7RF5TH5
	.033µF	15	6.5	BC1098CT-ND	.37	2.78	4,000	37.00/M	K333K15X7RF5TH5
	.047µF	15	6.5	BC1099CT-ND◆	.37	2.76	4,000	37.00/M	K473K15X7RF5TH5
	.1µF	15	6.5	BC1101CT-ND◆	.36	2.69	4,000	36.00/M	K104K15X7RF5TH5
	.22µF	20	7.5	BC1103CT-ND◆	.54	4.26	3,000	92.00/M	K224K20X7RF5TH5
Type X7R 100V ±10%									
1	1000pF	15	5.58	BC1108CT-ND◆	.35	2.60	4,000	35.00/M	K102K15X7RH5TL2
	4700pF	15	5.58	BC1110CT-ND	.37	2.76	4,000	37.00/M	K472K15X7RH5TL2
	.01µF	15	5.58	BC1111CT-ND	.45	3.35	4,000	45.00/M	K103K15X7RH5TL2
	.1µF	20	6.58	BC1114CT-ND◆	.46	3.62	3,000	78.00/M	K104K20X7RH5TL2
2	1000pF	15	6.5	BC1117CT-ND◆	.35	2.60	4,000	35.00/M	K102K15X7RH5TH5
	.01µF	15	6.5	BC1120CT-ND◆	.45	3.35	4,000	45.00/M	K103K15X7RH5TH5
	.1µF	20	7.5	BC1123CT-ND◆	.46	3.62	3,000	78.00/M	K104K20X7RH5TH5
Type Y5V 25V +80/-20% — RoHS Compliant									
1	.1µF	15	5.58	BC1148CT-ND	.44	2.94	4,000	32.00/M	K104Z15Y5VE5TL2
	.47µF	20	6.58	BC1150CT-ND	.46	3.61	3,000	78.00/M	K474Z20Y5VE5TL2
	1µF	20	6.58	BC1151CT-ND	.55	4.35	3,000	79.00/M	K105Z20Y5VE5TL2
2	1µF	20	7.5	BC1157CT-ND	.55	4.35	3,000	79.00/M	K105Z20Y5VE5TH5
Type Y5V 50V +80/-20%									
1	.01µF	15	5.58	BC1158CT-ND◆	.32	2.39	4,000	32.00/M	K103Z15Y5VF5TL2
	.1µF	15	5.58	BC1160CT-ND◆	.44	2.94	4,000	32.00/M	K104Z15Y5VF5TL2
	1µF	20	6.58	BC1162CT-ND◆	.55	4.35	3,000	79.00/M	K105Z20Y5VF5TL2
2	.01µF	15	6.5	BC1163CT-ND	.08	.72	—	—	K103Z15Y5VF5TH5
	.1µF	15	6.5	BC1165CT-ND◆	.44	2.94	4,000	32.00/M	K104Z15Y5VF5TH5
	.47µF	20	7.5	BC1167CT-ND◆	.46	3.61	3,000	78.00/M	K474Z20Y5VF5TH5
	1µF	20	7.5	BC1168CT-ND◆	.55	4.35	3,000	79.00/M	K105Z20Y5VF5TH5

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Ceramic Disc Capacitors for Safety Regulations – Type NS-A

(IEC384-14 2nd Ed. Sub-Class Y1/X1)

Kinked Lead

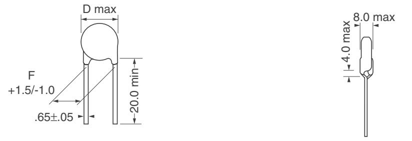

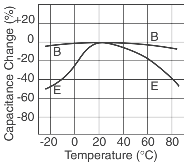

Nominal Capacitance (pF)	Capacitance Tolerance (%)	Temperature Characteristics	Dimensions - mm D	Dimensions - mm F	Digi-Key Part No.	Pricing 1	Pricing 50	Pricing 100	Panasonic Part No.
100	±20	B	11.0	10.0	P9521-ND	.53	14.16	24.66	ECK-ANA101MB
150	±20	B	11.0	10.0	P9522-ND	.53	14.16	24.66	ECK-ANA151MB
220	±20	B	11.0	10.0	P9523-ND	.53	14.16	22.74	ECK-ANA221MB
470	±20	B	11.0	10.0	P9524-ND	.53	14.16	24.66	ECK-ANA471MB
1,000	±20	B	11.0	10.0	P9525-ND	.53	14.16	24.66	ECK-ANA102MB
1,500	±20	E	11.0	10.0	P9526-ND	.53	14.16	22.74	ECK-ANA152ME
2,200	±20	E	11.0	10.0	P9527-ND	.53	14.16	24.66	ECK-ANA222ME
3,300	±20	E	13.0	10.0	P9528-ND	.57	15.17	26.42	ECK-ANA332ME
4,700	±20	E	16.0	10.0	P9529-ND	.72	19.22	33.48	ECK-ANA472ME

Class II Equipment. Type NS-A is recognized by UL and CSA (UL1414/250VAC and CSA C22.2 No. 1).

SPECIFICATIONS:

- **Operating Temperature Range:** -25°C ~ 85°C
- **Rated Voltage:**

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y1	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

- **Dielectric Withstanding Voltage:** 4000VAC (50/60Hz) for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temp. Char.	Capacitance Change	Temp. Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Ceramic Disc Capacitors for Safety Regulations – Type TS

(IEC384-14 2nd Ed. Sub-Class Y2/X1)

F

Approved by UL and CSA for rated voltage 250VAC.

RECOMMENDED APPLICATIONS:
Noise suppression circuit for switching power supply.

SPECIFICATIONS:

- **Operating Temperature Range:** –25°C ~ 125°C
- **Rated Voltage:** 250VAC
- **Voltage Proof:** 2600VAC for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ±20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temperature Characteristics	Capacitance Change	Temperature Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
F/Y5V/2F4	+30/-80% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Fig. 1

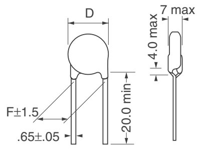

Fig. 2

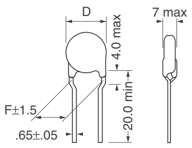

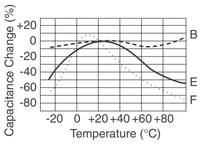

Fig.	Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions mm D ±1.0	Dimensions mm F	Digi-Key Part No.	Pricing 5	Pricing 10	Pricing 100	Panasonic Part No.
1	100	±20	B	7.0	7.5	P10455-ND	2.24	3.06	20.52	ECK-ATS101MB
	150	±20	B	7.0	7.5	P10456-ND	2.24	3.06	20.52	ECK-ATS151MB
	220	±20	B	7.0	7.5	P10457-ND	2.24	3.06	20.52	ECK-ATS221MB
	470	±20	B	7.0	7.5	P10459-ND	2.24	3.06	20.52	ECK-ATS471MB
	680	±20	B	7.0	7.5	P10460-ND	2.24	3.06	20.52	ECK-ATS681MB
	1,000	±20	E	7.0	7.5	P10461-ND	2.33	3.18	21.34	ECK-ATS102ME
	1,000	±20	B	9.5	7.5	P9657-ND	2.41	3.26	23.02	ECK-ATS102MB
	1,500	±20	E	8.0	7.5	P10462-ND	2.65	3.62	24.28	ECK-ATS152ME
	2,200	±20	E	9.0	7.5	P10463-ND	2.69	3.68	24.70	ECK-ATS222ME
2	3,300	±20	E	11.5	7.5	P10464-ND	3.24	4.43	29.73	ECK-ATS332ME
1	4,700	±20	E	14.0	10.0	P10465-ND	3.35	4.55	30.13	ECK-ATS472ME
2	4,700	±20	F	11.5	7.5	P10466-ND	3.24	4.43	29.73	ECK-ATS472MF
	4,700	±20	E	14.0	7.5	P10468-ND	3.35	4.55	30.13	ECK-ATS472ME6
1	10,000	±20	F	16.0*	10.0	P10467-ND	3.73	5.07	33.55	ECK-ATS103MF
2	10,000	±20	F	16.0*	7.5	P10469-ND	3.73	5.07	33.55	ECK-ATS103MF6

* D is ± 1.5

Ceramic Disc Capacitors for Safety Regulations – Type VS (Sub-Class Y2/X1)

Type VS is recognized by VDE (IEC60384-14) and UL/CSA.

FEATURES:

- Miniature size, 30% smaller than conventional Type TS

RECOMMENDED APPLICATIONS:

- AC adapter, Battery charger for PC, Mobile-phone
- Terminal peripheral equipment as MODEM, xDSL

SPECIFICATIONS:

- **Operating Temperature Range**: -25°C ~ 125°C (-25°C ~ 85°C for UL and CSA)
- **Rated Voltage:** 250VAC/Y2, 440VAC/X1
- **Voltage Proof:** 1500VAC, 1 minute
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1.0±0.2 Vrms and 20°C (for Temperature Characteristics B, E and F)
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 60±5 second electrification

Temp. Char.	Capacitance Change	Temperature Range
SL	+350 ~ -1000ppm/°C	20°C ~ 85°C
B	±10% Maximum	-20°C ~ 85°C
E	+20, -55% Maximum	-20°C ~ 85°C
F	+30, -80% Maximum	-20°C ~ 85°C
The reference temperature: 20°C		

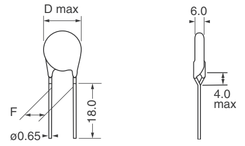

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions - mm D	Dimensions - mm F	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Box Qty.	Tape and Box Pricing	Panasonic Part No.
5	±0.5pF	SL	8.0	5.0	P11408CT-ND	.32	2.18	15.40	P11408TB-ND	1,000	84.00	ECC-NVS050DG
22	±5%	SL	8.0	5.0	P11410CT-ND	.52	3.56	23.86	P11410TB-ND	1,000	122.00	ECC-NVS220JG
47	±5%	SL	8.0	5.0	P11411CT-ND	.52	3.56	23.86	P11411TB-ND	1,000	122.00	ECC-NVS470JG
100	±10%	B	8.0	5.0	P11412CT-ND	.52	3.56	23.86	P11412TB-ND	1,000	122.00	ECK-NVS101KB
150	±10%	B	8.0	5.0	P11413CT-ND	.52	3.56	23.86	—	—	—	ECK-NVS151KB
220	±10%	B	8.0	5.0	P11414CT-ND	.52	3.56	23.86	P11414TB-ND	1,000	122.00	ECK-NVS221KB
330	±10%	B	8.0	5.0	P11415CT-ND	.52	3.56	23.86	P11415TB-ND	1,000	122.00	ECK-NVS331KB
470	±10%	B	8.0	5.0	P11416CT-ND	.52	3.56	23.86	P11416TB-ND	1,000	122.00	ECK-NVS471KB
1,000	±10%	B	9.0	5.0	P11417CT-ND	.34	2.51	17.92	P11417TB-ND	1,000	100.00	ECK-NVS102KB
1,000	±20%	E	8.0	5.0	P11418CT-ND	.57	3.87	25.95	—	—	—	ECK-NVS102ME
1,500	±20%	E	8.0	5.0	P11419CT-ND	.57	3.87	25.95	—	—	—	ECK-NVS152ME
4,700	±20%	E	11.0	5.0	P11421CT-ND	.74	5.02	33.21	P11421TB-ND	1,000	199.00	ECK-NVS472ME
4,700	±20%	F	10.0	5.0	P11422CT-ND	.70	4.76	31.50	P11422TB-ND	1,000	189.00	ECK-NVS472MF

KEMET Ceramic Conformally Coated Axial Leaded Capacitors “AXIMAX”

The “Aximax” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C ~ 85°C.

Style	L Max. Inch (mm)	D Max. Inch (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (2.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)

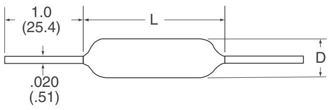

Dielectric	Voltage	Capacitance	Cap. Tol. (%)	Size Code	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Kemet Part No.
						1	10	25	100		Qty.	Pricing	
C0G	100	68pF	±5	410	399-1811-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C680J1G5CA7200
	100	1500pF	±5	420	399-1819-1-ND	.67	5.58	11.45	34.97	—	—	—	C420C152J1G5CA7200
	100	6800pF	±5	430	399-1823-1-ND	1.09	9.12	19.64	66.93	—	—	—	C430C682J1G5CA7200
	100	680pF	±5	410	399-1826-1-ND	.60	4.75	10.01	28.61	—	—	—	C410C681J5G5CA7200
	100	1500pF	±5	412	399-1828-1-ND	.70	5.86	12.02	36.72	—	—	—	C412C152J5G5CA7200
	100	1500pF	±5	420	399-1830-1-ND	.70	5.86	12.02	36.72	—	—	—	C420C152J5G5CA7200
	50	2200pF	±5	420	399-1831-1-ND	.70	5.86	12.02	36.72	—	—	—	C420C222J5G5CA7200
	50	3300pF	±5	430	399-1832-1-ND	1.01	8.56	17.77	58.15	—	—	—	C430C332J5G5CA7200
	50	4700pF	±5	430	399-1833-1-ND	1.01	8.56	17.77	58.15	—	—	—	C430C472J5G5CA7200
	50	6800pF	±5	430	399-1834-1-ND	1.01	8.56	17.77	58.15	—	—	—	C430C682J5G5CA7200
X7R	100	680pF	±10	410	399-1838-1-ND	.45	3.55	7.48	21.38	—	—	—	C410C681K1R5CA7200
	100	1500pF	±10	410	399-1840-1-ND	.45	3.55	7.48	21.38	—	—	—	C410C152K1R5CA7200
	100	.015µF	±10	412	399-1846-1-ND	.52	4.13	8.70	24.86	—	—	—	C412C153K1R5CA7200
	100	.015µF	±10	420	399-1848-1-ND	.52	4.13	8.70	24.86	—	—	—	C420C153K1R5CA7200
	100	.022µF	±10	420	399-1849-1-ND	.56	4.67	9.58	29.27	—	—	—	C420C223K1R5CA7200
	100	.068µF	±10	430	399-1852-1-ND	.77	6.55	13.59	44.49	—	—	—	C430C683K1R5CA7200
	100	.15µF	±10	440	399-1854-1-ND	1.03	8.63	18.59	63.33	—	—	—	C440C154K1R5CA7200
	50	.015µF	±10	410	399-1856-1-ND	.57	4.54	9.57	27.35	—	—	—	C410C153K5R5CA7200
	50	.068µF	±10	420	399-1862-1-ND	.63	4.95	10.44	29.83	—	—	—	C420C683K5R5CA7200
Z5U	100	.015µF	±20	410	399-1869-1-ND	.39	3.05	6.44	18.40	—	—	—	C410C153M1U5CA7200
	100	.033µF	±20	420	399-1871-1-ND	.61	4.79	10.09	28.84	—	—	—	C420C333M1U5CA7200
	100	.068µF	±20	430	399-1873-1-ND	.80	6.67	13.69	41.81	—	—	—	C430C683M1U5CA7200
	50	.033µF	±20	410	399-1877-1-ND	.47	3.71	7.60	19.42	—	—	—	C410C333M5U5CA7200
	50	.068µF	±20	410	399-1879-1-ND	.47	3.71	7.60	19.42	—	—	—	C410C683M5U5CA7200
	50	.68µF	±20	430	399-1886-1-ND	.78	6.60	13.70	44.85	—	—	—	C430C684M5U5CA7200
RoHS Compliant													
C0G	100	10pF	±5	410	399-4446-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C100J1G5TA7200
	100	15pF	±5	410	399-4455-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C150J1G5TA7200
	100	22pF	±5	410	399-4461-1-ND	.65	5.15	10.87	31.05	399-4461-2-ND	5,000	106.00/M	C410C220J1G5TA7200
	100	33pF	±5	410	399-4467-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C330J1G5TA7200
	100	47pF	±5	410	399-4472-1-ND	.65	5.15	10.87	31.05	399-4472-2-ND	5,000	106.00/M	C410C470J1G5TA7200
	100	68pF	±5	410	399-4478-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C680J1G5TA7200
	100	100pF	±5	410	399-4447-1-ND	.58	4.58	9.66	27.60	399-4447-2-ND	5,000	94.00/M	C410C101J1G5TA7200
	100	150pF	±5	410	399-4456-1-ND	.65	5.15	10.87	31.05	399-4456-2-ND	5,000	106.00/M	C410C151J1G5TA7200
	100	220pF	±5	410	399-4462-1-ND	.65	5.15	10.87	31.05	399-4462-2-ND	5,000	106.00/M	C410C221J1G5TA7200
	100	330pF	±5	410	399-4468-1-ND	.65	5.15	10.87	31.05	399-4468-2-ND	5,000	106.00/M	C410C331J1G5TA7200
	100	680pF	±5	410	399-4479-1-ND	.59	4.66	9.82	28.07	—	—	—	C410C681J1G5TA7200
	100	470pF	±5	410	399-4473-1-ND	.65	5.15	10.87	31.05	399-4473-2-ND	5,000	106.00/M	C410C471J1G5TA7200
	100	1000pF	±5	410	399-4448-1-ND	.60	4.77	10.06	28.75	399-4448-2-ND	5,000	98.00/M	C410C102J1G5TA7200
	100	1500pF	±5	420	399-4492-1-ND	.67	5.58	11.45	34.97	—	—	—	C420C152J1G5TA7202
	100	2200pF	±5	420	399-4495-1-ND	.70	5.86	12.02	36.72	—	—	—	C420C222J1G5TA7200
	100	3300pF	±5	430	399-1821-1-ND	.90	7.62	15.82	51.76	—	—	—	C430C332J1G5CA7200
	100	3300pF	±5	430	399-4508-1-ND	.90	7.62	15.82	51.76	—	—	—	C430C332J1G5TA7200
	100	4700pF	±5	430	399-4510-1-ND	.99	8.41	17.46	57.13	399-4510-2-ND	2,500	238.00/M	C430C472J1G5TA7200
	100	6800pF	±5	430	399-4514-1-ND	1.09	9.12	19.64	66.93	—	—	—	C430C682J1G5TA7200
	100	.01µF	±5	440	399-4519-1-ND	1.39	11.62	25.04	85.32	399-4519-2-ND	2,500	359.00/M	C440C103J1G5TA7200
	100	.015µF	±5	440	399-1825-1-ND	1.26	10.54	22.71	77.38	—	—	—	C440C153J1G5CA7200
	100	.015µF	±5	440	399-4522-1-ND	1.39	11.62	25.04	85.32	399-4522-2-ND	2,500	359.00/M	C440C153J1G5TA7200

(Continued)

Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX" *(Cont.)*

Dielectric	Voltage	Capacitance	Cap. Tol. (%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
C0G	50	680pF	±5	410	399-4480-1-ND	.66	5.25	11.08	31.65	399-4480-2-ND	5,000	108.00/M	C410C681J5G5TA7200
	50	1000pF	±5	410	399-4449-1-ND	.60	4.77	10.06	28.75	399-4449-2-ND	5,000	98.00/M	C410C102J5G5TA7200
	50	1500pF	±5	412	399-4485-1-ND	.77	6.47	13.28	40.57	399-4485-2-ND	5,000	145.00/M	C412C152J5G5TA7200
	50	2200pF	±5	412	399-4487-1-ND	.77	6.47	13.28	40.57	399-4487-2-ND	5,000	145.00/M	C412C222J5G5TA7200
	50	1500pF	±5	420	399-4493-1-ND	.77	6.47	13.28	40.57	399-4493-2-ND	5,000	145.00/M	C420C152J5G5TA7200
	50	2200pF	±5	420	399-4496-1-ND	.77	6.47	13.28	40.57	399-4496-2-ND	5,000	145.00/M	C420C222J5G5TA7200
	50	3300pF	±5	430	399-4509-1-ND	1.11	9.45	19.61	64.19	399-4509-2-ND	2,500	267.00/M	C430C332J5G5TA7200
	50	4700pF	±5	430	399-4511-1-ND	1.11	9.45	19.61	64.19	399-4511-2-ND	2,500	267.00/M	C430C472J5G5TA7200
	50	6800pF	±5	430	399-4515-1-ND	1.11	9.45	19.61	64.19	399-4515-2-ND	2,500	267.00/M	C430C682J5G5TA7200
	50	.01µF	±5	440	399-4520-1-ND	1.39	11.62	25.04	85.32	399-4520-2-ND	2,500	359.00/M	C440C103J5G5TA7200
	50	.015µF	±5	440	399-4523-1-ND	1.52	12.45	28.08	100.19	399-4523-2-ND	2,500	425.00/M	C440C153J5G5TA7200
	50	.015µF	±5	440	399-1836-1-ND	1.38	11.30	25.50	90.97	399-1836-2-ND	2,500	425.04/M	C440C153J5G5CA7200
X7R	100	470pF	±10	410	399-4474-1-ND	.45	3.55	7.48	21.38	—	—	—	C410C471K1R5TA7200
	100	680pF	±10	410	399-4481-1-ND	.50	3.93	8.28	23.65	399-4481-2-ND	5,000	80.00/M	C410C681K1R5TA7200
	100	1000pF	±10	410	399-4450-1-ND	.42	3.30	6.96	19.89	—	—	—	C410C102K1R5TA7200
	100	1500pF	±10	410	399-4457-1-ND	.45	3.55	7.48	21.38	—	—	—	C410C152K1R5TA7200
	100	2200pF	±10	410	399-4463-1-ND	.50	3.93	8.28	23.65	399-4463-2-ND	5,000	80.00/M	C410C222K1R5TA7200
	100	3300pF	±10	410	399-4469-1-ND	.45	3.55	7.48	21.38	399-4469-2-ND	5,000	90.00/M	C410C332K1R5TA7200
	100	4700pF	±10	410	399-4475-1-ND	.50	3.93	8.28	23.65	399-4475-2-ND	5,000	80.00/M	C410C472K1R5TA7200
	100	6800pF	±10	410	399-4482-1-ND	.45	3.55	7.48	21.38	—	—	—	C410C682K1R5TA7200
	100	.01µF	±10	410	399-4451-1-ND	.52	4.11	8.42	21.51	399-4451-2-ND	5,000	69.00/M	C410C103K1R5TA7200
	100	.015µF	±10	412	399-4486-1-ND	.52	4.13	8.70	24.86	—	—	—	C412C153K1R5TA7200
	100	.022µF	±10	412	399-4488-1-ND	.56	4.72	9.68	29.57	399-4488-2-ND	5,000	106.00/M	C412C223K1R5TA7200
	100	.015µF	±10	420	399-4494-1-ND	.58	4.57	9.63	27.50	399-4494-2-ND	5,000	94.00/M	C420C153K1R5TA7200
	100	.022µF	±10	420	399-4497-1-ND	.56	4.67	9.58	29.27	—	—	—	C420C223K1R5TA7200
	100	.033µF	±10	420	399-4498-1-ND	.56	4.67	9.58	29.27	—	—	—	C420C333K1R5TA7200
	100	.047µF	±10	430	399-4512-1-ND	.72	6.00	12.32	37.63	—	—	—	C430C473K1R5TA7200
	100	.1µF	±10	430	399-4503-1-ND	.88	7.37	15.13	46.20	399-4503-2-ND	2,500	176.00/M	C430C104K1R5TA7200
	100	.068µF	±10	430	399-4516-1-ND	.85	7.23	15.00	49.10	399-4516-2-ND	2,500	205.00/M	C430C683K1R5TA7200
	100	.15µF	±10	440	399-4524-1-ND	1.14	9.51	20.49	69.83	399-4524-2-ND	2.500	293.00/M	C440C154KR15TA7200
	50	.01µF	±10	410	399-4452-1-ND	.49	3.87	7.92	20.24	399-4452-2-ND	5,000	65.00/M	C410C103K5R5TA7200
	50	.015µF	±10	410	399-4458-1-ND	.57	4.54	9.57	27.35	—	—	—	C410C153K5R5TA7200
	50	.022µF	±10	410	399-4464-1-ND	.57	4.54	9.57	27.35	—	—	—	C410C223K5R5TA7200
	50	.033µF	±10	410	399-4470-1-ND	.64	5.02	10.59	30.25	399-4470-2-ND	5,000	103.00/M	C410C333K5R5TA7200
	50	.047µF	±10	410	399-4476-1-ND	.69	5.48	11.55	33.00	399-4476-2-ND	5,000	112.00/M	C410C473K5R5TA7200
	50	.068µF	±10	412	399-4490-1-ND	.69	5.48	11.55	33.00	399-4490-2-ND	5,000	112.00/M	C412C683K5R5TA7200
	50	.1µF	±10	412	399-4484-1-ND	.44	3.47	7.32	20.90	399-4484-2-ND	5,000	71.00/M	C412C104K5R5TA7200
	50	.068µF	±10	420	399-4502-1-ND	.69	5.48	11.55	33.00	399-4502-2-ND	5,000	112.00/M	C420C683K5R5TA7200
	50	.1µF	±10	420	399-4491-1-ND	.44	3.47	7.32	20.90	399-4491-2-ND	5,000	71.00/M	C420C104K5R5TA7200
	50	.15µF	±10	430	399-4505-1-ND	.77	6.55	13.59	44.49	—	—	—	C430C154K5R5TA7200
	50	.22µF	±10	430	399-4507-1-ND	1.03	8.63	18.59	63.33	—	—	—	C430C224K5R5TA7200
	50	.33µF	±10	440	399-4526-1-ND	1.13	9.47	20.41	69.53	—	—	—	C440C334K5R5TA7200
	50	.47µF	±10	440	399-4527-1-ND	1.65	13.53	30.53	108.90	399-4527-2-ND	2,500	462.00/M	C440C474K5R5TA7200
Z5U	100	.01µF	±20	410	399-4453-1-ND	.40	3.15	6.44	16.45	399-4453-2-ND	5,000	53.00/M	C410C103M1U5TA7200
	100	.015µF	±20	410	399-4459-1-ND	.43	3.38	7.12	20.35	399-4459-2-ND	5,000	69.00/M	C410C153M1U5TA7200
	100	.022µF	±20	410	399-4465-1-ND	.39	3.05	6.44	18.40	—	—	—	C410C223M1U5TA7200
	100	.033µF	±20	420	399-4499-1-ND	.67	5.30	11.17	31.90	399-4499-2-ND	5,000	108.00/M	C420C333M1U5TA7200
	100	.047µF	±20	420	399-4501-1-ND	.61	4.79	10.09	28.84	—	—	—	C420C473M1U5TA7200
	100	.068µF	±20	430	399-4517-1-ND	.80	6.67	13.69	41.81	—	—	—	C430C683M1U5TA7200
	100	.1µF	±20	430	399-4504-1-ND	.52	4.34	8.90	27.18	—	—	—	C430C104M1U5TA7200
	100	.15µF	±20	430	399-4506-1-ND	.97	8.11	16.64	50.82	399-4506-2-ND	2,500	194.00/M	C430C154M1U5TA7200
	100	.22µF	+20	440	399-4525-1-ND	.88	7.34	15.06	45.99	—	—	—	C440C224M1U5TA7200
	50	.033µF	±20	410	399-4471-1-ND	.52	4.11	8.42	21.51	399-4471-2-ND	5,000	69.00/M	C410C333M5U5TA7200
	50	.047µF	±20	410	399-4477-1-ND	.52	4.11	8.42	21.51	399-4477-2-ND	5,000	69.00/M	C410C473M5U5TA7200
	50	.068µF	±20	410	399-4483-1-ND	.52	4.11	8.42	21.51	399-4483-2-ND	5,000	69.00/M	C410C683M5U5TA7200
	50	.1µF	±20	410	399-4454-1-ND	.37	2.90	5.94	15.18	399-4454-2-ND	5,000	49.00/M	C410C104M5U5TA7200
	50	.15µF	±20	410	399-4460-1-ND	.58	4.57	9.63	27.50	399-4460-2-ND	5,000	94.00/M	C410C154M5U5TA7200
	50	.22µF	±20	410	399-4466-1-ND	.58	4.57	9.63	27.50	399-4466-2-ND	5,000	94.00/M	C410C224M5U5TA7200
	50	.33µF	±20	412	399-4489-1-ND	.68	5.67	11.65	35.57	399-4489-2-ND	5,000	127.00/M	C412C334M5U5TA7200
	50	.33µF	±20	420	399-4500-1-ND	.68	5.67	11.65	35.57	399-4500-2-ND	5,000	127.00/M	C420C334M5U5TA7200
	50	.47µF	±20	430	399-4513-1-ND	.86	7.29	15.13	49.50	399-4513-2-ND	2,500	206.00/M	C430C474M5U5TA7200
	50	.68µF	±20	430	399-4518-1-ND	.86	7.29	15.13	49.50	399-4518-2-ND	2,500	206.00/M	C430C684M5U5TA7200
	50	4µF	±20	440	399-4521-1-ND	1.10	9.33	19.36	63.36	399-4521-2-ND	2,500	264.00/M	C440C105M5U5TA7200

KEMET
CHARGED.

Ceramic Conformally Coated Radial Leaded Capacitors

"GOLDEN MAX"

The "Golden Max" series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, and interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ±30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% ~ 56% over an operating temperature range of 10°C ~ 85°C.

Series:
C315
C320
C330
C340
C350

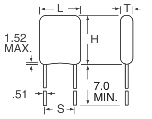

Series:
C317
C322
C323

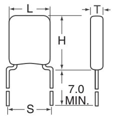

Dielectric	VDC	Cap.	Dimensions – mm				Digi-Key Part No.	Pricing			Kemet Part No.
			S	Max. L	Max. H	Max. T		1	10	100	
C315 Series											
C0G ±5%	100	150pF	2.54	3.81	5.33	2.54	399-4153-ND	.40	2.80	16.80	C315C151J1G5TA
	100	220pF	2.54	3.81	5.33	2.54	399-4163-ND	.40	2.80	16.80	C315C221J1G5TA
	100	330pF	2.54	3.81	5.33	2.54	399-4173-ND	.40	2.80	16.80	C315C331J1G5TA
	100	470pF	2.54	3.81	5.33	2.54	399-4182-ND	.40	2.80	16.80	C315C471J1G5TA
	100	680pF	2.54	3.81	5.33	2.54	399-4191-ND	.47	3.30	21.76	C315C681J1G5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4143-ND	.47	3.25	19.50	C315C102J1G5TA
	200	10pF	2.54	3.81	5.33	2.54	399-4140-ND	.40	2.75	16.50	C315C100J2G5TA
	200	15pF	2.54	3.81	5.33	2.54	399-4152-ND	.43	2.97	17.82	C315C150J2G5TA
	200	22pF	2.54	3.81	5.33	2.54	399-4162-ND	.43	2.97	17.82	C315C220J2G5TA
	200	27pF	2.54	3.81	5.33	2.54	399-4171-ND	.43	2.97	17.82	C315C270J2G5TA
	200	33pF	2.54	3.81	5.3 3	2.54	399-4172-ND	.43	2.97	17.82	C315C330J2G5TA
	200	47pF	2.54	3.81	5.33	2.54	399-4181-ND	.43	2.97	17.82	C315C470J2G5TA
	200	68pF	2.54	3.81	5.33	2.54	399-4190-ND	.45	3.14	18.81	C315C680J2G5TA
	200	100pF	2.54	3.81	5.33	2.54	399-4141-ND	.43	2.97	17.82	C315C101J2G5TA
	200	150pF	2.54	3.81	5.33	2.54	399-4154-ND	.48	3.36	20.16	C315C151J2G5TA
	200	220pF	2.54	3.81	5.33	2.54	399-4164-ND	.48	3.36	20.16	C315C221J2G5TA
	200	330pF	2.54	3.81	5.33	2.54	399-4174-ND	.47	3.30	21.76	C315C331J2G5TA
	200	470pF	2.54	3.81	5.33	2.54	399-4183-ND	.47	3.30	21.76	C315C471J2G5TA
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-4177-ND	.35	2.38	13.46	C315C332K5R5TA
	50	4700pF	2.54	3.81	5.33	2.54	399-4186-ND	.32	2.20	13.20	C315C472K5R5TA
	50	6800pF	2.54	3.81	5.33	2.54	399-4194-ND	.32	2.20	13.20	C315C682K5R5TA
	50	.01µF	2.54	3.81	5.33	2.54	399-4148-ND	.31	2.15	12.90	C315C103K5R5TA
	50	.015µF	2.54	3.81	5.33	2.54	399-4159-ND	.32	2.20	13.20	C315C153K5R5TA
	50	.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.34	2.37	14.19	C315C223K5R5TA
	50	.033µF	2.54	3.81	5.33	2.54	399-4179-ND	.34	2.37	14.19	C315C333K5R5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4144-ND	.32	2.18	12.34	C315C102K1R5TA
	100	1500pF	2.54	3.81	5.33	2.54	399-4156-ND	.35	2.38	13.46	C315C152K1R5TA
	100	2200pF	2.54	3.81	5.33	2.54	399-4166-ND	.35	2.38	13.46	C315C222K1R5TA
	100	3300pF	2.54	3.81	5.33	2.54	399-4176-ND	.35	2.38	13.46	C315C332K1R5TA
	100	4700pF	2.54	3.81	5.33	2.54	399-4185-ND	.32	2.20	13.20	C315C472K1R5TA
	100	6800pF	2.54	3.81	5.33	2.54	399-4193-ND	.32	2.20	13.20	C315C682K1R5TA
	100	.01µF	2.54	3.81	5.33	2.54	399-4147-ND	.35	2.38	13.46	C315C103K1R5TA
	200	100pF	2.54	3.81	5.33	2.54	399-4142-ND	.34	2.35	14.10	C315C101K2R5TA
	200	150pF	2.54	3.81	5.33	2.54	399-4155-ND	.37	2.58	15.45	C315C151K2R5TA
	200	220pF	2.54	3.81	5.33	2.54	399-4165-ND	.37	2.58	15.45	C315C221K2R5TA
	200	330pF	2.54	3.81	5.33	2.54	399-4175-ND	.37	2.58	15.45	C315C331K2R5TA
	200	470pF	2.54	3.81	5.33	2.54	399-4184-ND	.37	2.58	15.45	C315C471K2R5TA
	200	680pF	2.54	3.81	5.33	2.54	399-4192-ND	.37	2.58	15.45	C315C681K2R5TA
	200	1000pF	2.54	3.81	5.33	2.54	399-4145-ND	.34	2.35	14.10	C315C102K2R5TA
	200	1500pF	2.54	3.81	5.33	2.54	399-4157-ND	.37	2.58	15.45	C315C152K2R5TA
	200	2200pF	2.54	3.81	5.33	2.54	399-4167-ND	.37	2.58	15.45	C315C222K2R5TA
Z5U ±20%	50	4700pF	2.54	3.81	5.33	2.54	399-4188-ND	.34	2.35	13.29	C315C472M5U5TA
	50	6800pF	2.54	3.81	5.33	2.54	399-4196-ND	.34	2.35	13.29	C315C682M5U5TA
	50	.01µF	2.54	3.81	5.33	2.54	399-4150-ND	.30	2.07	11.73	C315C103M5U5TA
	50	.015µF	2.54	3.81	5.33	2.54	399-4161-ND	.33	2.28	12.92	C315C153M5U5TA
	50	.022µF	2.54	3.81	5.33	2.54	399-4170-ND	.33	2.28	12.92	C315C223M5U5TA
	50	.033µF	2.54	3.81	5.33	2.54	399-4180-ND	.33	2.28	12.92	C315C333M5U5TA
	50	.047µF	2.54	3.81	5.33	2.54	399-4189-ND	.33	2.28	12.92	C315C473M5U5TA
	50	.068µF	2.54	3.81	5.33	2.54	399-4197-ND	.31	2.13	12.78	C315C683M5U5TA
	50	.1µF	2.54	3.81	5.33	2.54	399-4151-ND	.30	2.07	11.73	C315C104M5U5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4146-ND	.31	2.14	12.14	C315C102M1U5TA
	100	1500pF	2.54	3.81	5.33	2.54	399-4158-ND	.34	2.35	13.29	C315C152M1U5TA
	100	2200pF	2.54	3.81	5.33	2.54	399-4168-ND	.34	2.35	13.29	C315C222M1U5TA
	100	3300pF	2.54	3.81	5.33	2.54	399-4178-ND	.34	2.35	13.29	C315C332M1U5TA
	100	4700pF	2.54	3.81	5.33	2.54	399-4187-ND	.34	2.35	13.29	C315C472M1U5TA
	100	6800pF	2.54	3.81	5.33	2.54	399-4195-ND	.34	2.35	13.29	C315C682M1U5TA
	100	.01µF	2.54	3.81	5.33	2.54	399-4149-ND	.31	2.14	12.14	C315C103M1U5TA
	100	.015µF	2.54	3.81	5.33	2.54	399-4160-ND	.31	2.19	13.11	C315C153M1U5TA
C317 Series											
C0G ±5%	100	150pF	5.08	3.81	5.84	2.54	399-4211-ND	.40	2.80	16.80	C317C151J1G5TA
	100	220pF	5.08	3.81	5.84	2.54	399-4221-ND	.40	2.80	16.80	C317C221J1G5TA
	100	330pF	5.08	3.81	5.84	2.54	399-4230-ND	.40	2.80	16.80	C317C331J1G5TA
	100	470pF	5.08	3.81	5.84	2.54	399-4240-ND	.40	2.80	16.80	C317C471J1G5TA
	100	680pF	5.08	3.81	5.84	2.54	399-4248-ND	.47	3.30	21.76	C317C681J1G5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4201-ND	.47	3.25	19.50	C317C102J1G5TA
	200	10pF	5.08	3.81	5.84	2.54	399-4198-ND	.40	2.75	16.50	C317C100J2G5TA
	200	15pF	5.08	3.81	5.84	2.54	399-4210-ND	.43	2.97	17.82	C317C150J2G5TA
	200	22pF	5.08	3.81	5.84	2.54	399-4220-ND	.43	2.97	17.82	C317C220J2G5TA
	200	33pF	5.08	3.81	5.84	2.54	399-4229-ND	.43	2.97	17.82	C317C330J2G5TA
	200	39pF	5.08	3.81	5.84	2.54	399-4238-ND	.43	2.97	17.82	C317C390J2G5TA
	200	47pF	5.08	3.81	5.84	2.54	399-4239-ND	.43	2.97	17.82	C317C470J2G5TA
	200	68pF	5.08	3.81	5.84	2.54	399-4247-ND	.45	3.14	18.81	C317C680J2G5TA
	200	100pF	5.08	3.81	5.84	2.54	399-4199-ND	.43	2.97	17.82	C317C101J2G5TA
	200	150pF	5.08	3.81	5.84	2.54	399-4212-ND	.48	3.36	20.16	C317C151J2G5TA
	200	220pF	5.08	3.81	5.84	2.54	399-4222-ND	.48	3.36	20.16	C317C221J2G5TA
	200	330pF	5.08	3.81	5.84	2.54	399-4231-ND	.47	3.30	21.76	C317C331J2G5TA
	200	470pF	5.08	3.81	5.84	2.54	399-4241-ND	.47	3.30	21.76	C317C471J2G5TA
X7R ±10%	50	3300pF	5.08	3.81	5.84	2.54	399-4234-ND	.35	2.38	13.46	C317C332K5R5TA
	50	4700pF	5.08	3.81	5.84	2.54	399-4244-ND	.32	2.20	13.20	C317C472K5R5TA
	50	6800pF	5.08	3.81	5.84	2.54	399-4251-ND	.32	2.20	13.20	C317C682K5R5TA
	50	.01µF	5.08	3.81	5.84	2.54	399-4206-ND	.31	2.15	12.90	C317C103K5R5TA
	50	.015µF	5.08	3.81	5.84	2.54	399-4217-ND	.32	2.20	13.20	C317C153K5R5TA
	50	.022µF	5.08	3.81	5.84	2.54	399-4227-ND	.34	2.37	14.19	C317C223K5R5TA
	50	.033µF	5.08	3.81	5.84	2.54	399-4236-ND	.34	2.37	14.19	C317C333K5R5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4202-ND	.32	2.18	12.34	C317C102K1R5TA
	100	1500pF	5.08	3.81	5.84	2.54	399-4214-ND	.35	2.38	13.46	C317C152K1R5TA
	100	2200pF	5.08	3.81	5.84	2.54	399-4224-ND	.35	2.38	13.46	C317C222K1R5TA
	100	3300pF	5.08	3.81	5.84	2.54	399-4233-ND	.35	2.38	13.46	C317C332K1R5TA
	100	4700pF	5.08	3.81	5.84	2.54	399-4243-ND	.32	2.20	13.20	C317C472K1R5TA
	100	6800pF	5.08	3.81	5.84	2.54	399-4250-ND	.32	2.20	13.20	C317C682K1R5TA
	100	.01µF	5.08	3.81	5.84	2.54	399-4205-ND	.35	2.38	13.46	C317C103K1R5TA
	200	100pF	5.08	3.81	5.84	2.54	399-4200-ND	.34	2.35	14.10	C317C101K2R5TA
	200	150pF	5.08	3.81	5.84	2.54	399-4213-ND	.37	2.58	15.45	C317C151K2R5TA
	200	220pF	5.08	3.81	5.84	2.54	399-4223-ND	.37	2.58	15.45	C317C221K2R5TA
	200	330pF	5.08	3.81	5.84	2.54	399-4232-ND	.37	2.58	15.45	C317C331K2R5TA
	200	470pF	5.08	3.81	5.84	2.54	399-4242-ND	.37	2.58	15.45	C317C471K2R5TA
	200	680pF	5.08	3.81	5.84	2.54	399-4249-ND	.37	2.58	15.45	C317C681K2R5TA
	200	1000pF	5.08	3.81	5.84	2.54	399-4203-ND	.34	2.35	14.10	C317C102K2R5TA
	200	1500pF	5.08	3.81	5.84	2.54	399-4215-ND	.37	2.58	15.45	C317C152K2R5TA
	200	2200pF	5.08	3.81	5.84	2.54	399-4225-ND	.37	2.58	15.45	C317C222K2R5TA
Z5U ±20%	50	6800pF	5.08	3.81	5.84	2.54	399-4253-ND	.34	2.35	13.29	C317C682M5U5TA
	50	.01µF	5.08	3.81	5.84	2.54	399-4208-ND	.30	2.07	11.73	C317C103M5U5TA
	50	.015µF	5.08	3.81	5.84	2.54	399-4219-ND	.33	2.28	12.92	C317C153M5U5TA
	50	.022µF	5.08	3.81	5.84	2.54	399-4228-ND	.33	2.28	12.92	C317C223M5U5TA
	50	.033µF	5.08	3 .81	5.84	2.54	399-4237-ND	.33	2.28	12.92	C317C333M5U5TA
	50	.047µF	5.08	3.81	5.84	2.54	399-4246-ND	.33	2.28	12.92	C317C473M5U5TA
	50	.068µF	5.08	3.81	5.84	2.54	399-4254-ND	.31	2.13	12.78	C317C683M5U5TA
	50	.1µF	5.08	3.81	5.84	2.54	399-4209-ND	.30	2.07	11.73	C317C104M5U5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4204-ND	.31	2.14	12.14	C317C102M1U5TA
	100	1500pF	5.08	3.81	5.84	2.54	399-4216-ND	.34	2.35	13.29	C317C152M1U5TA
	100	2200pF	5.08	3.81	5.84	2.54	399-4226-ND	.34	2.35	13.29	C317C222M1U5TA
	100	3300pF	5.08	3.81	5.84	2.54	399-4235-ND	.55	3.91	23.46	C317C332M1U5TA
	100	4700pF	5.08	3.81	5.84	2.54	399-4245-ND	.34	2.35	13.29	C317C472M1U5TA
	100	.01µF	5.08	3.81	5.84	2.54	399-4207-ND	.31	2.14	12.14	C317C103M1U5TA
	100	.015µF	5.08	3.81	5.84	2.54	399-4218-ND	.31	2.19	13.11	C317C153M1U5TA
C320 Series											
C0G ±5%	100	680pF	2.54	5.08	6.60	3.18	399-4311-ND	.47	3.34	21.98	C320C681J1G5TA
	100	1000pF	2.54	5.08	6.60	3.18	399-4257-ND	.47	3.28	19.65	C320C102J1G5TA
	100	1500pF	2.54	5.08	6.60	3.18	399-4269-ND	.48	3.39	22.36	C320C152J1G5TA
	100	2200pF	2.54	5.08	6.60	3.18	399-4281-ND	.48	3.39	22.36	C320C222J1G5TA
	100	3300pF	2.54	5.08	6.60	3.18	399-4292-ND	.55	3.87	25.46	C320C332J1G5TA
	100	4700pF	2.54	5.08	6.60	3.18	399-4302-ND	.59	4.15	27.32	C320C472J1G5TA
	200	10pF	2.54	5.08	6.60	3.18	399-4255-ND	.40	2.80	16.80	C320C100J2G5TA
	200	15pF	2.54	5.08	6.60	3.18	399-4267-ND	.44	3.03	18.15	C320C150J2G5TA
	200	22pF	2.54	5.08	6.60	3.18	399-4279-ND	.44	3.03	18.15	C320C220J2G5TA
	200	33pF	2.54	5.08	6.60	3.18	399-4290-ND	.44	3.03	18.15	C320C330J2G5TA
	200	47pF	2.54	5.08	6.60	3.18	399-4300-ND	.44	3.03	18.15	C320C470J2G5TA
	200	68pF	2.54	5.08	6.60	3.18	399-4310-ND	.46	3.19	19.14	C320C680J2G5TA
	200	100pF	2.54	5.08	6.60	3.18	399-4256-ND	.44	3.03	18.15	C320C101J2G5TA
	200	150pF	2.54	5.08	6.60	3.18	399-4268-ND	.49	3.39	20.34	C320C151J2G5TA
	200	220pF	2.54	5.08	6.60	3.18	399-4280-ND	.49	3.39	20.34	C320C221J2G5TA
	200	330pF	2.54	5.08	6.60	3.18	399-4291-ND	.47	3.34	21.98	C320C331J2G5TA
	200	470pF	2.54	5.08	6.60	3.18	399-4301-ND	.47	3.34	21.98	C320C471J2G5TA
	200	680pF	2.54	5.08	6.60	3.18	399-4312-ND	.51	3.61	23.79	C320C681J2G5TA
	200	1000pF	2.54	5.08	6.60	3.18	399-4258-ND	.49	3.48	22.90	C320C102J2G5TA
	200	1500pF	2.54	5.08	6.60	3.18	399-4270-ND	.55	3.87	25.46	C320C152J2G5TA
	200	2200pF	2.54	5.08	6.60	3.18	399-4282-ND	.55	3.87	25.46	C320C222J2G5TA
	200	3300pF	2.54	5.08	6.60	3.18	399-4293-ND	.67	4.76	31.37	C320C332J2G5TA
X7R ±10%	50	.015µF	2.54	5.08	6.60	3.18	399-4274-ND	.32	2.24	13.44	C320C153K5R5TA
	50	.022µF	2.54	5.08	6.60	3.18	399-4286-ND	.35	2.41	14.46	C320C223K5R5TA
	50	.033µF	2.54	5.08	6.60	3.18	399-4296-ND	.35	2.41	14.46	C320C333K5R5TA
	50	.047µF	2.54	5.08	6.60	3.18	399-4306-ND	.40	2.75	16.47	C320C473K5R5TA
	50	.068µF	2.54	5.08	6.60	3.18	399-4316-ND	.40	2.75	16.47	C320C683K5R5TA
	50	.1µF	2.54	5.08	6.60	3.18	399-4264-ND	.32	2.24	13.44	C320C104K5R5TA
	50	.15µF	2.54	5.08	6.60	3.18	399-4276-ND	.45	3.17	20.87	C320C154K5R5TA
	50	.22µF	2.54	5.08	6.60	3.18	399-4288-ND	.65	4.59	30.24	C320C224K5R5TA
	100	4700pF	2.54	5.08	6.60	3.18	399-4303-ND	.33	2.26	13.56	C320C472K1R5TA
	100	6800pF	2.54	5.08	6.60	3.18	399-4313-ND	.33	2.26	13.56	C320C682K1R5TA
	100	.015µF	2.54	5.08	6.60	3.18	399-4272-ND	.36	2.49	14.91	C320C153K1R5TA
	100	.022µF	2.54	5.08	6.60	3.18	399-4284-ND	.41	2.88	17.28	C320C223K1R5TA
	100	.033µF	2.54	5.08	6.60	3.18	399-4295-ND	.41	2.88	17.28	C320C333K1R5TA
	100	.047µF	2.54	5.08	6.60	3.18	399-4305-ND	.41	2.92	19.22	C320C473K1R5TA
	100	.01µF	2.54	5.08	6.60	3.18	399-4260-ND	.29	2.04	12.21	C320C103K1R5TA
	100	.068µF	2.54	5.08	6.60	3.18	399-4315-ND	.41	2.92	19.22	C320C683K1R5TA
	100	.1µF	2.54	5.08	6.60	3.18	399-4263-ND	.41	2.92	19.22	C320C104K1R5TA
	200	1000pF	2.54	5.08	6.60	3.18	399-4259-ND	.35	2.42	14.49	C320C102K2R5TA
	200	1500pF	2.54	5.08	6.60	3.18	399-4271-ND	.38	2.65	15.87	C320C152K2R5TA

(Continued)

Dielectric	VDC	Cap.	Dimensions – mm				Digi-Key Part No.	Pricing			Kemet Part No.
			S	Max. L	Max. H	Max. T		1	10	100	
X7R ±10%	200	2200pF	2.54	5.08	6.60	3.18	399-4283-ND	.38	2.65	15.87	C320C222K2R5TA
	200	3300pF	2.54	5.08	6.60	3.18	399-4294-ND	.38	2.65	15.87	C320C332K2R5TA
	200	4700pF	2.54	5.08	6.60	3.18	399-4304-ND	.41	2.88	17.25	C320C472K2R5TA
	200	6800pF	2.54	5.08	6.60	3.18	399-4314-ND	.41	2.88	17.25	C320C682K2R5TA
	200	.01µF	2.54	5.08	6.60	3.18	399-4261-ND	.38	2.65	15.87	C320C103K2R5TA
	200	.015µF	2.54	5.08	6.60	3.18	399-4273-ND	.47	3.28	19.68	C320C153K2R5TA
	200	. 022µF	2.54	5.08	6.60	3.18	399-4285-ND	.47	3.28	19.68	C320C223K2R5TA
X7R ±20%	500	.01µF	2.54	5.08	6.60	3.18	399-3504-ND	.78	5.90	42.20	C320C103MCR5TA
Z5U ±20%	50	.033µF	2.54	5.08	6.60	3.18	399-4298-ND	.33	2.28	12.92	C320C333M5U5TA
	50	.047µF	2.54	5.08	6.60	3.18	399-4308-ND	.33	2.28	12.92	C320C473M5U5TA
	50	.068µF	2.54	5.08	6.60	3.18	399-4318-ND	.45	3.20	21.30	C320C683M5U5TA
	50	.1µF	2.54	5.08	6.60	3.18	399-4266-ND	.30	2.07	11.73	C320C104M5U5TA
	50	.15µF	2.54	5.08	6.60	3.18	399-4278-ND	.36	2.48	14.85	C320C154M5U5TA
	50	.22µF	2.54	5.08	6.60	3.18	399-4289-ND	.48	3.34	20.01	C320C224M5U5TA
	50	.33µF	2.54	5.08	6.60	3.18	399-4299-ND	.48	3.34	20.01	C320C334M5U5TA
	50	.47µF	2.54	5.08	6.60	3.18	399-4309-ND	.49	3.44	22.68	C320C474M5U5TA
	100	.01µF	2.54	5.08	6.60	3.18	399-4262-ND	.31	2.14	12.14	C320C103M1U5TA
	100	.015µF	2.54	5.08	6.60	3.18	399-4275-ND	.31	2.19	13.11	C320C153M1U5TA
	100	.022µF	2.54	5.08	6.60	3.18	399-4287-ND	.31	2.19	13.11	C320C223M1U5TA
	100	.033µF	2.54	5.08	6.60	3.18	399-4297-ND	.36	2.48	14.85	C320C333M1U5TA
	100	.047µF	2.54	5.08	6.60	3.18	399-4307-ND	.36	2.48	14.85	C320C473M1U5TA
	100	.1µF	2.54	5.08	6.60	3.18	399-4265-ND	.31	2.19	13.11	C320C104M1U5TA
	100	.15µF	2.54	5.08	6.60	3.18	399-4277-ND	.46	3.26	21.44	C320C154M1U5TA
C322 Series											
C0G ±5%	100	680pF	5.08	5.08	6.60	3.18	399-4376-ND	.47	3.34	21.98	C322C681J1G5TA
	100	1000pF	5.08	5.08	6.60	3.18	399-4321-ND	.47	3.28	19.65	C322C102J1G5TA
	100	1500pF	5.08	5.08	6.60	3.18	399-4334-ND	.48	3.39	22.36	C322C152J1G5TA
	100	2200pF	5.08	5.08	6.60	3.18	399-4346-ND	.48	3.39	22.36	C322C222J1G5TA
	100	3300pF	5.08	5.08	6.60	3.18	399-4357-ND	.55	3.87	25.46	C322C332J1G5TA
	100	4700pF	5.08	5.08	6.60	3.18	399-4367-ND	.59	4.15	27.32	C322C472J1G5TA
COG ±5%	200	10pF	5.08	5.08	6.60	3.18	399-4319-ND	.40	2.80	16.80	C322C100J2G5TA
	200	15pF	5.08	5.08	6.60	3.18	399-4332-ND	.44	3.03	18.15	C322C150J2G5TA
	200	22pF	5.08	5.08	6.60	3.18	399-4344-ND	.44	3.03	18.15	C322C220J2G5TA
	200	33pF	5.08	5.08	6.60	3.18	399-4355-ND	.44	3.03	18.15	C322C330J2G5TA
	200	47pF	5.08	5.08	6.60	3.18	399-4365-ND	.44	3.03	18.15	C322C470J2G5TA
	200	68pF	5.08	5.08	6.60	3.18	399-4375-ND	.46	3.19	19.14	C322C680J2G5TA
	200	100pF	5.08	5.08	6.60	3.18	399-4320-ND	.44	3.03	18.15	C322C101J2G5TA
	200	150pF	5.08	5.08	6.60	3.18	399-4333-ND	.49	3.39	20.34	C322C151J2G5TA
	200	220pF	5.08	5.08	6.60	3.18	399-4345-ND	.49	3.39	20.34	C322C221J2G5TA
	200	330pF	5.08	5.08	6.60	3.18	399-4356-ND	.47	3.34	21.98	C322C331J2G5TA
	200	470pF	5.08	5.08	6.60	3.18	399-4366-ND	.47	3.34	21.98	C322C471J2G5TA
	200	680pF	5.08	5.08	6.60	3.18	399-4377-ND	.51	3.61	23.79	C322C681J2G5TA
	200	1000pF	5.08	5.08	6.60	3.18	399-4322-ND	.49	3.48	22.90	C322C102J2G5TA
	200	1500pF	5.08	5.08	6.60	3.18	399-4335-ND	.55	3.87	25.46	C322C152J2G5TA
	200	2200pF	5.08	5.08	6.60	3.18	399-4347-ND	.55	3.87	25.46	C322C222J2G5TA
	200	3300pF	5.08	5.08	6.60	3.18	399-4358-ND	.67	4.76	31.37	C322C332J2G5TA
	500	100pF	5.08	5.08	6.60	3.18	399-5100-ND	1.55	12.27	92.03	C322C101JCG5TA
	1000	470pF	5.08	5.08	6.60	3.18	399-5101-ND	1.76	13.89	104.18	C322C471JDG5TA
X7R ±5%	1000	.01µF	5.08	5.08	6.60	3.18	399-5098-ND	1.01	7.98	59.87	C322C103JDR5TA
X7R ±10%	50	.01µF	5.08	5.08	6.60	3.18	399-4326-ND	.32	2.22	12.58	C322C103K5R5TA
	50	.015µF	5.08	5.08	6.60	3.18	399-4339-ND	.32	2.24	13.44	C322C153K5R5TA
	50	.022µF	5.08	5.08	6.60	3.18	399-4351-ND	.35	2.41	14.46	C322C223K5R5TA
	50	.033µF	5.08	5.08	6.60	3.18	399-4361-ND	.35	2.41	14.46	C322C333K5R5TA
	50	.047µF	5.08	5.08	6.60	3.18	399-4371-ND	.40	2.75	16.47	C322C473K5R5TA
	50	.068µF	5.08	5.08	6.60	3.18	399-4381-ND	.40	2.75	16.47	C322C683K5R5TA
	50	.1µF	5.08	5.08	6.60	3.18	399-4329-ND	.32	2.24	13.44	C322C104K5R5TA
	50	.15µF	5.08	5.08	6.60	3.18	399-4341-ND	.45	3.17	20.87	C322C154K5R5TA
	50	.22µF	5.08	5.08	6.60	3.18	399-4353-ND	.65	4.59	30.24	C322C224K5R5TA
	100	4700pF	5.08	5.08	6.60	3.18	399-4368-ND	.33	2.26	13.56	C322C472K1R5TA
	100	6800pF	5.08	5.08	6.60	3.18	399-4378-ND	.33	2.26	13.56	C322C682K1R5TA
	100	.01µF	5.08	5.08	6.60	3.18	399-4324-ND	.29	2.04	12.21	C322C103K1R5TA
	100	.015µF	5.08	5.08	6.60	3.18	399-4337-ND	.36	2.49	14.91	C322C153K1R5TA
	100	.022µF	5.08	5.08	6.60	3.18	399-4349-ND	.41	2.88	17.28	C322C223K1R5TA
	100	.033µF	5.08	5.08	6.60	3.18	399-4360-ND	.41	2.88	17.28	C322C333K1R5TA
	100	.047µF	5.08	5.08	6.60	3.18	399-4370-ND	.41	2.92	19.22	C322C473K1R5TA
	100	.068µF	5.08	5.08	6.60	3.18	399-4380-ND	.41	2.92	19.22	C322C683K1R5TA
	100	.1µF	5.08	5.08	6.60	3.18	399-4328-ND	.41	2.92	19.22	C322C104K1R5TA
	200	1000pF	5.08	5.08	6.60	3.18	399-4323-ND	.35	2.42	14.49	C322C102K2R5TA
	200	1500pF	5.08	5.08	6.60	3.18	399-4336-ND	.38	2.65	15.87	C322C152K2R5TA
	200	2200pF	5.08	5.08	6.60	3.18	399-4348-ND	.38	2.65	15.87	C322C222K2R5TA
	200	4700pF	5.08	5.08	6.60	3.18	399-4369-ND	.41	2.88	17.25	C322C472K2R5TA
	200	6800pF	5.08	5.08	6.60	3.18	399-4379-ND	.41	2.88	17.25	C322C682K2R5TA
	200	.01µF	5.08	5.08	6.60	3.18	399-4325-ND	.38	2.65	15.87	C322C103K2R5TA
	200	.015µF	5.08	5.08	6.60	3.18	399-4338-ND	.47	3.28	19.68	C322C153K2R5TA
	200	.022µF	5.08	5.08	6.60	3.18	399-4350-ND	.47	3.28	19.68	C322C223K2R5TA
	500	.047µF	5.08	5.08	6.60	3.18	399-5097-ND	1.33	10.50	78.75	C322C473KCR5TA
	1500	1000pF	5.08	5.08	6.60	3.18	399-5099-ND	1.20	9.44	70.79	C322C102KFR5TA
Z5U ±20%	50	.033µF	5.08	5.08	6.60	3.18	399-4363-ND	.33	2.28	12.92	C322C333M5U5TA
	50	.047µF	5.08	5.08	6.60	3.18	399-4373-ND	.33	2.28	12.92	C322C473M5U5TA
	50	.068µF	5.08	5.08	6.60	3.18	399-4383-ND	.31	2.13	12.78	C322C683M5U5TA
	50	.1µF	5.08	5.08	6.60	3.18	399-4331-ND	.30	2.07	11.73	C322C104M5U5TA
	50	.15µF	5.08	5.08	6.60	3.18	399-4343-ND	.36	2.48	14.85	C322C154M5U5TA
	50	.22µF	5.08	5.08	6.60	3.18	399-4354-ND	.48	3.34	20.01	C322C224M5U5TA
	50	.33µF	5.08	5.08	6.60	3.18	399-4364-ND	.48	3.34	20.01	C322C334M5U5TA
	50	.47µF	5.08	5.08	6.60	3.18	399-4374-ND	.49	3.44	22.68	C322C474M5U5TA
	100	.01µF	5.08	5.08	6.60	3.18	399-4327-ND	.31	2.14	12.14	C322C103M1U5TA
	100	.015µF	5.08	5.08	6.60	3.18	399-4340-ND	.46	3.28	21.85	C322C153M1U5TA
Z5U ±20%	100	.022µF	5.08	5.08	6.60	3.18	399-4352-ND	.31	2.19	13.11	C322C223M1U5TA
	100	.033µF	5.08	5.08	6.60	3.18	399-4362-ND	.36	2.48	14.85	C322C333M1U5TA
	100	.047µF	5.08	5.08	6.60	3.18	399-4372-ND	.36	2.48	14.85	C322C473M1U5TA
	100	.1µF	5.08	5.08	6.60	3.18	399-4330-ND	.31	2.19	13.11	C322C104M1U5TA
	100	.15µF	5.08	5.08	6.60	3.18	399-4342-ND	.46	3.26	21.44	C322C154M1U5TA
C323 Series											
X7R ±10%	500	.01µF	5.08	5.08	8.13	3.18	399-3505-ND	.83	6.28	44.90	C323C103KCR5TA
X7R ±20%	500	.01µF	5.08	5.08	8.13	3.18	399-3506-ND	.78	5.90	42.20	C323C103MCR5TA
C330 Series											
COG ±5%	100	4700pF	5.08	7.62	9.14	3.81	399-4411-ND	.84	6.16	42.24	C330C472J1G5TA
	100	6800pF	5.08	7.62	9.14	3.81	399-4419-ND	.82	6.20	44.38	C330C682J1G5TA
	100	.01µF	5.08	7.62	9.14	3.81	399-4384-ND	1.00	7.62	54.54	C330C103J1G5TA
	100	.015µF	5.08	7.62	9.14	3.81	399-4391-ND	1.13	8.90	66.76	C330C153J1G5TA
	200	.022µF	5.08	7.62	9.14	3.81	399-4398-ND	1.68	13.25	99.36	C330C223J1G5TA
	200	3300pF	5.08	7.62	9.14	3.81	399-4405-ND	.85	6.43	45.99	C330C332J2G5TA
	200	4700pF	5.08	7.62	9.14	3.81	399-4412-ND	.85	6.43	45.99	C330C472J2G5TA
	200	6800pF	5.08	7.62	9.14	3.81	399-4420-ND	1.06	8.39	62.89	C330C682J2G5TA
	200	.01µF	5.08	7.62	9.14	3.81	399-4385-ND	1.01	7.97	59.78	C330C103J2G5TA
	200	.015µF	5.08	7.62	9.14	3.81	399-4392-ND	1.78	14.39	109.89	C330C153J2G5TA
	1000	1000pF	5.08	7.62	9.14	3.81	399-5095-ND	2.05	16.55	126.40	C330C102JDG5TA
	3000	100pF	5.08	7.62	9.14	3.81	399-5096-ND	2.29	18.49	141.16	C330C101JHG5TA
X7R ±5%	3000	1000pF	5.08	7.62	9.14	3.81	399-5094-ND	2.15	17.41	132.97	C330C102JHR5TA
X7R ±10%	50	.15µF	5.08	7.62	9.14	3.81	399-4395-ND	.73	5.19	34.18	C330C154K5R5TA
	50	.22µF	5.08	7.62	9.14	3.81	399-4401-ND	.77	5.68	38.98	C330C224K5R5TA
	50	.33µF	5.08	7.62	9.14	3.81	399-4408-ND	.83	6.11	41.93	C330C334K5R5TA
	50	.47µF	5.08	7.62	9.14	3.81	399-4415-ND	.83	6.11	41.93	C330C474K5R5TA
	50	.68µF	5.08	7.62	9.14	3.81	399-4423-ND	1.38	10.92	81.90	C330C684K5R5TA
	50	1µF	5.08	7.62	9.14	3.81	399-4389-ND	1.12	8.84	66.29	C330C105K5R5TA
	100	.1µF	5.08	7.62	9.14	3.81	399-4386-ND	.49	3.48	22.90	C330C104K1R5TA
	100	.15µF	5.08	7.62	9.14	3.81	399-4394-ND	.62	4.59	31.46	C330C154K1R5TA
	100	.22µF	5.08	7.62	9.14	3.81	399-4400-ND	.82	6.24	44.66	C330C224K1R5TA
	100	.33µF	5.08	7.62	9.14	3.81	399-4407-ND	1.02	7.75	55.43	C330C334K1R5TA
	100	.47µF	5.08	7.62	9.14	3.81	399-4414-ND	1.40	11.02	82.64	C330C474K1R5TA
	200	.015µF	5.08	7.62	9.14	3.81	399-4393-ND	.57	4.01	26.41	C330C153K2R5TA
	200	.022µF	5.08	7.62	9.14	3.81	399-4399-ND	.57	4.01	26.41	C330C223K2R5TA
	200	.033µF	5.08	7.62	9.14	3.81	399-4406-ND	.57	4.01	26.41	C330C333K2R5TA
	200	.047µF	5.08	7.62	9.14	3.81	399-4413-ND	.57	4.01	26.41	C330C473K2R5TA
	200	.056µF	5.08	7.62	9.14	3.81	399-4418-ND	.57	4.01	26.41	C330C563K2R5TA
	200	.068µF	5.08	7.62	9.14	3.81	399-4422-ND	.63	4.63	31.75	C330C683K2R5TA
	200	.1µF	5.08	7.62	9.14	3.81	399-4387-ND	.86	6.54	46.80	C330C104K2R5TA
	500	.1µF	5.08	7.62	9.14	3.81	399-3507-ND	1.61	12.68	95.11	C330C104KCR5TA
	500	.12µF	5.08	7.62	9.14	3.81	399-3509-ND	2.16	17.44	133.14	C330C124KCR5TA
	2000	1000pF	5.08	7.62	9.14	3.81	399-5093-ND	1.65	13.01	97.54	C330C102KGR5TA
X7R ±20%	500	.1µF	5.08	7.62	9.14	3.81	399-3508-ND	1.51	11.92	89.39	C330C104MCR5TA
Z5U ±20%	50	.33µF	5.08	7.62	9.14	3.81	399-4410-ND	.63	4.48	29.51	C330C334M5U5TA
	50	.47µF	5.08	7.62	9.14	3.81	399-4417-ND	.63	4.48	29.51	C330C474M5U5TA
	50	.68µF	5.08	7.62	9.14	3.81	399-4424-ND	.72	5.27	36.17	C330C684M5U5TA
	50	1µF	5.08	7.62	9.14	3.81	399-4390-ND	.65	4.79	32.86	C330C105M5U5TA
	50	1.5µF	5.08	7.62	9.14	3.81	399-4397-ND	.95	7.25	51.87	C330C155M5U5TA
	50	2.2µF	5.08	7.62	9.14	3.81	399-4403-ND	1.00	7.61	54.41	C330C225M5U5TA
	100	.1µF	5.08	7.62	9.14	3.81	399-4388-ND	.50	3.54	23.30	C330C104M1U5TA
	100	.15µF	5.08	7.62	9.14	3.81	399-4396-ND	.59	4.15	27.32	C330C154M1U5TA
	100	.22µF	5.08	7.62	9.14	3.81	399-4402-ND	.67	4.72	31.05	C330C224M1U5TA
	100	.33µF	5.08	7.62	9.14	3.81	399-4409-ND	.67	4.72	31.05	C330C334M1U5TA
	100	.47µF	5.08	7.62	9.14	3.81	399-4416-ND	.66	4.83	33.12	C330C474M1U5TA
C340 Series											
C0G ±5%	100	.033µF	5.08	10.16	11.68	3.81	399-4435-ND	3.24	26.24	200.34	C340C333J1G5TA
	100	.047µF	5.08	10.16	11.68	3.81	399-4438-ND	3.30	26.61	207.56	C340C473J1G5TA
	100	.068µF	5.08	10.16	11.68	3.81	399-4443-ND	3.70	29.82	232.60	C340C683J1G5TA
	200	.022µF	5.08	10.16	11.68	3.81	399-4431-ND	3.24	26.24	200.34	C340C223J2G5TA
	200	.033µF	5.08	10.16	11.68	3.81	399-4436-ND	3.30	26.61	207.56	C340C333J2G5TA
	200	.047µF	5.08	10.16	11.68	3.81	399-4439-ND	3.70	29.82	232.60	C340C473J2G5TA
X7R ±10%	50	1.5µF	5.08	10.16	11.68	3.81	399-4429-ND	2.54	20.56	156.98	C340C155K5R5TA
	50	2.2µF	5.08	10.16	11.68	3.81	399-4433-ND	3.18	25.71	196.35	C340C225K5R5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4440-ND	1.48	11.70	87.75	C340C474K1R5TA
	100	.68µF	5.08	10.16	11.68	3.81	399-4444-ND	3.32	26.83	204.88	C340C684K1R5TA
	100	1µF	5.08	10.16	11.68	3.81	399-4426-ND	3.32	26.83	204.88	C340C105K1R5TA
	200	.1µF	5.08	10.16	11.68	3.81	399-4425-ND	.90	6.83	48.83	C340C104K2R5TA
	200	.15µF	5.08	10.16	11.68	3.81	399-4428-ND	2.96	23.93	182.70	C340C154K2R5TA
	200	.22µF	5.08	10.16	11.68	3.81	399-4432-ND	3.32	26.83	204.88	C340C224K2R5TA
X7R ±20%	500	.22µF	5.08	10.16	11.68	3.81	399-3510-ND	4.00	35.98	271.83	C340C224MCR5TA
Z5U ±20%	50	2.2µF	5.08	10.16	11.68	3.81	399-4434-ND	2.27	18.34	140.07	C340C225M5U5TA
	50	3.3µF	5.08	10.16	11.68	3.81	399-4437-ND	2.83	22.93	175.10	C340C335M5U5TA
	50	4.7µF	5.08	10.16	11.68	3.81	399-4442-ND	3.12	25.16	196.23	C340C475M5U5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4441-ND	.66	4.83	33.12	C340C474M1U5TA
	100	.68µF	5.08	10.16	11.68	3.81	399-4445-ND	1.42	11.21	84.11	C340C684M1U5TA
	100	1µF	5.08	10.16	11.68	3.81	399-4427-ND	2.25	18.19	138.87	C340C105M1U5TA
	100	1.5µF	5.08	10.16	11.68	3.81	399-4430-ND	2.74	22.14	169.05	C340C155M1U5TA
C350 Series											
X7R ±10%	500	.1µF	10.16	12.70	14.22	5.08	399-3511-ND	5.12	46.06	347.99	C350C104KCR5TA
	500	.22µF	10.16	12.70	14.22	5.08	399-3513-ND	6.33	56.26	450.08	C350C224KCR5TA
	500	.56µF	10.16	12.70	14.22	5.08	399-3516-ND	7.84	69.71	557.66	C350C564KCR5TA
	1000	.22µF	10.16	12.70	14.22	5.08	399-3514-ND	6.71	59.64	477.09	C350C224KDR5TA
X7R ±20%	500	.1µF	10.16	12.70	14.22	5.08	399-3512-ND	4.81	43.29	327.11	C350C104MCR5TA
	500	.39µF	10.16	12.70	14.22	5.08	399-3515-ND	6.64	59.03	472.26	C350C394MCR5TA
	500	.56µF	10.16	12.70	14.22	5.08	399-3517-ND	7.37	65.53	524.21	C350C564MCR5TA

Capacitor Kit

399-5086-ND (Kemet Part No. CER ENG KIT 08)
High Voltage Capacitor Kit, 400 total pieces (See Digi-Key website for values included) **$54.00**

Panasonic® Interference Suppressor Capacitors X-Y Series-Metallized Film

Electrical Specifications: • **Operating Temperature Range:** -40°C ~ 85°C (-40°C ~ 100°C for ECQ-UG/UL) • **Capacitance Tolerance:** ±20% (M) • **Dissipation Factor:** Less than 1.0% (at 20°C 1 kHz)

ECQ-UN Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1414);** Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. Across-The-Line, antenna-isolation and line-by-pass capacitor. File No. LR35752. **VDE (VED0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89, 5 50251,05. **DEMKO (AFSNIT21);** class X2, Ref No. 70726EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01~14(0.001~0.012µF), Reg No. 062522 01~15(0.015~0.22µF).

ECQ-EW Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1283);** Electromagnetic Interference Filters Class X File No. E79502. **SEMKO (SS 443 04 14);** class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

ECQ-UF Series: **Rated Voltage:** 250VAC **Standards: SEMKO (SEMKO 101)** Reg. No. 61-88271/1-4. **DEMKO (AFSNIT 21);** class Y/X, Ref No. 61254EC. **VDE (VDE 0565-1)** class Y/X2, File No. 4811-6-1-4670-1032. **BSI (BS415);** certified No. 6026. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2)** No. 0-M1982, No.1-M1981, Across-The-Line, Antenna-Isolation and LIne-by-Pass Capacitor, File No. LR35752.

ECQ-UV Series: **Rated Voltage:** 250VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic Interference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, No. 1-M1981. **SEMKO (SS 443 04 14);** class X2/Y Reg No. 8804123. **DEMKO (AFSNIT21);** class X2/Y Ref No. 89275EC. **NEMKO (NEMKO 132);** class X2 Ref No. 37892, class Y Ref No. 37894. **EI (IEC 384/14);** class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** class X2/Y File No. 4811.6-4670-1070. **SEV (SEV 1055);** class X ref No. 88,1 00318,01.

ECQ-UG — Class X1 Series: **Rated Voltage:** 250/300VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **FIMCO and VDE;** IEC384-14, 1993, A1 - 1995, EN132400, Class X1.

ECQ-UL Series: **Rated Voltage:** 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors. Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors., Antenna-Isolation and Line-by-Pass Capacitors. **VDE;** IEC384-14, 1993, EN132400, Class X2.

ECQ - UN, EW, UF

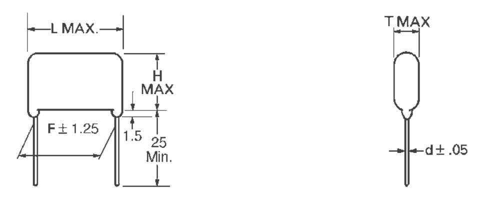

ECQ - UV, UG, UL

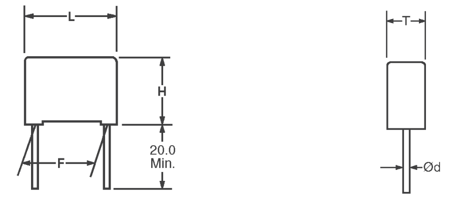

Voltage (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Pricing			Panasonic Part No.
		L	T	H	F	dø		1	50	100	
ECQ-UN — RoHS Compliant											
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND	1.03	32.60	56.15	ECQ-U2A472MN
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND	1.03	32.60	56.15	ECQ-U2A103MN
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND	1.16	39.72	68.75	ECQ-U2A473MN
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND	1.28	43.80	75.82	ECQ-U2A104MN
ECQ-EW — RoHS Compliant											
250	0.1	24.0	8.0	13.5	20.5	0.8	P4605-ND	.88	30.26	52.37	ECQ-E2A104MW
ECQ-UF — RoHS Compliant											
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND	.85	28.91	50.04	ECQ-U2A472MF
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND	.88	30.26	52.37	ECQ-U2A103MF
ECQ-UV											
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND◆	.98	30.98	53.35	ECQ-U2A102MV
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND◆	.98	30.98	53.35	ECQ-U2A122MV
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	.98	30.98	53.35	ECQ-U2A152MV
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND◆	.98	30.98	53.35	ECQ-U2A182MV
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND◆	.98	30.98	53.35	ECQ-U2A222MV
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND◆	.98	30.98	53.35	ECQ-U2A272MV
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND◆	.98	30.98	53.35	ECQ-U2A332MV
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND◆	.98	30.98	53.35	ECQ-U2A392MV
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND◆	.98	30.98	53.35	ECQ-U2A472MV
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND◆	.98	30.98	53.35	ECQ-U2A562MV
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND◆	.98	30.98	53.35	ECQ-U2A682MV
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND◆	.98	30.98	53.35	ECQ-U2A822MV
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND◆	.98	30.98	53.35	ECQ-U2A103MV
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	.98	30.98	53.35	ECQ-U2A123MV
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND◆	.94	29.67	51.10	ECQ-U2A153MV
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND◆	.95	30.08	51.81	ECQ-U2A183MV
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND◆	.97	30.48	52.50	ECQ-U2A223MV
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND◆	.97	30.48	52.50	ECQ-U2A273MV
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND◆	.97	30.48	52.50	ECQ-U2A333MV
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND◆	.97	30.48	52.50	ECQ-U2A393MV
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND◆	1.02	35.01	60.59	ECQ-U2A473MV
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND◆	1.00	31.66	54.52	ECQ-U2A563MV
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND◆	1.00	31.66	54.52	ECQ-U2A683MV
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	1.00	31.66	54.52	ECQ-U2A823MV
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND◆	1.00	31.66	54.52	ECQ-U2A104MV
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.29	44.10	76.33	ECQ-U2A124MV
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND◆	1.35	46.08	79.76	ECQ-U2A154MV
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.35	46.08	79.76	ECQ-U2A184MV
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND◆	1.45	49.77	86.14	ECQ-U2A224MV
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND◆	1.82	64.34	112.60	ECQ-U2A274MV
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND◆	1.83	64.61	113.06	ECQ-U2A334MV
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	1.83	64.61	113.06	ECQ-U2A394MV
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND◆	2.04	71.88	125.79	ECQ-U2A474MV
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	2.11	74.35	130.11	ECQ-U2A564MV
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND◆	2.41	84.92	148.62	ECQ-U2A684MV
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND◆	2.71	95.65	167.39	ECQ-U2A824MV
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND◆	2.87	101.45	177.53	ECQ-U2A105MV
ECQ-UG — Class X1 — RoHS Compliant											
250/ 300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND	.59	15.67	27.30	ECQ-U3A103MG
	0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND	.59	15.67	27.30	ECQ-U3A153MG
	0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND	.59	15.67	27.30	ECQ-U3A223MG
	0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND	.59	15.67	27.30	ECQ-U3A333MG
250/ 300	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND	.59	15.67	27.30	ECQ-U3A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND	.59	15.67	27.30	ECQ-U3A683MG
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND	.59	15.67	27.30	ECQ-U3A104MG
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND	.66	19.32	33.12	ECQ-U3A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND	.79	23.28	39.91	ECQ-U3A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND	1.06	33.60	57.87	ECQ-U3A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND	1.26	43.10	74.59	ECQ-U3A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.68	57.51	99.54	ECQ-U3A684MG
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	1.88	66.26	115.96	ECQ-U3A105MG
ECQ-UL											
250/ 275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND◆	.39	9.50	16.29	ECQ-U2A102ML
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.35	8.56	14.67	ECQ-U2A122ML
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND◆	.39	9.50	16.29	ECQ-U2A152ML
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.39	9.50	16.29	ECQ-U2A182ML
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND◆	.33	8.14	13.95	ECQ-U2A222ML
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND◆	.39	9.50	16.29	ECQ-U2A272ML
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND◆	.33	8.14	13.95	ECQ-U2A332ML
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND◆	.39	9.50	16.29	ECQ-U2A392ML
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND◆	.33	8.14	13.95	ECQ-U2A472ML
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND◆	.39	9.50	16.29	ECQ-U2A562ML
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND◆	.39	9.50	16.29	ECQ-U2A682ML
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.39	9.50	16.29	ECQ-U2A822ML
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND◆	.33	8.14	13.95	ECQ-U2A103ML
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND◆	.39	9.50	16.29	ECQ-U2A123ML
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.33	8.14	13.95	ECQ-U2A153ML
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.39	9.50	16.29	ECQ-U2A183ML
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND◆	.39	9.50	16.29	ECQ-U2A223ML
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.33	8.14	13.95	ECQ-U2A273ML
	0.033	15.0	6.0	13.0	12.5	0.60	P10727-ND◆	.39	9.50	16.29	ECQ-U2A333ML
	0.039	15.0	6.0	13.0	12.5	0.60	P11003-ND	.39	9.50	16.29	ECQ-U2A393ML
	0.047	15.0	6.0	13.0	12.5	0.60	P10728-ND◆	.33	8.14	13.95	ECQ-U2A473ML
	0.056	17.5	4.5	11.5	15.0	0.60	P11004-ND◆	.39	9.50	16.29	ECQ-U2A563ML
	0.068	17.5	4.5	11.5	15.0	0.60	P10729-ND◆	.33	8.14	13.95	ECQ-U2A683ML
	0.082	17.5	5.5	12.0	15.0	0.60	P11005-ND	.39	9.50	16.29	ECQ-U2A823ML
	0.1	17.5	5.5	12.0	15.0	0.60	P10730-ND◆	.33	8.14	13.95	ECQ-U2A104ML
	0.12	17.5	6.5	14.5	15.0	0.60	P11006-ND	.42	10.27	17.61	ECQ-U2A124ML
	0.15	17.5	6.5	14.5	15.0	0.60	P10731-ND◆	.39	9.43	16.17	ECQ-U2A154ML
	0.18	17.5	8.0	16.0	15.0	0.60	P11007-ND◆	.50	12.18	20.88	ECQ-U2A184ML
	0.22	17.5	8.0	16.0	15.0	0.60	P10732-ND◆	.47	11.39	19.53	ECQ-U2A224ML
	0.27	17.5	9.5	17.5	15.0	0.80	P11008-ND◆	.52	13.81	24.06	ECQ-U2A274ML
	0.33	17.5	9.5	17.5	15.0	0.80	P10733-ND◆	.50	13.39	23.33	ECQ-U2A334ML
	0.39	25.5	8.5	17.5	22.5	0.80	P11009-ND◆	.57	15.13	26.35	ECQ-U2A394ML
	0.47	25.5	8.5	17.5	22.5	0.80	P10734-ND◆	.63	16.85	29.35	ECQ-U2A474ML
	0.56	25.5	10.5	19.5	22.5	0.80	P11010-ND◆	.64	18.87	32.35	ECQ-U2A564ML
	0.68	25.5	10.5	19.5	22.5	0.80	P10735-ND◆	.76	22.37	38.35	ECQ-U2A684ML
	0.82	25.5	12.5	22.0	22.5	0.80	P11011-ND◆	.84	26.55	45.73	ECQ-U2A824ML
	1.0	25.5	12.0	22.0	22.5	0.80	P10736-ND◆	.84	24.85	42.60	ECQ-U2A105ML
	1.2	30.5	16.5	26.5	27.5	0.80	P11012-ND	1.33	45.53	78.80	ECQ-U2A125ML
	1.5	30.5	16.5	26.5	27.5	0.80	P10737-ND◆	1.46	49.95	86.45	ECQ-U2A155ML
	1.8	30.5	19.0	29.5	27.5	0.80	P11013-ND◆	1.70	58.28	100.87	ECQ-U2A185ML
	2.2	30.5	19.0	29.5	27.5	0.80	P10738-ND◆	1.74	59.49	102.96	ECQ-U2A225ML

◆ ***RoHS Compliant***

Multilayer Ceramic Capacitors

COG:

Features:

- Good thermal stability • High insulation resistance • Low dissipation factor • Low inductance

Applications:

- Resonant circuits • Timing elements • Coupling and filtering, particularly in RF circuits

Electrical Data:

- Dielectric: Class 1 • Operating temperature range: -55°C ~ 125°C

X7R:

Features:

- High volumetric efficiency • Non-linear capacitance change • High insulation resistance • High pulse strength

Applications:

- Blocking • Coupling • Decoupling • Interference suppression

Electrical Data:

- Standard: EIA • Dielectric: Class 2 • Operating temperature range: -55°C ~ 125°C

Z5U (Y5U):

Features:

- Extremely high volumetric efficiency • Non-linear capacitance change • Y5U characteristic is also fulfilled

Applications:

- Blocking • Coupling • Decoupling • Interference suppression

Electrical Data:

- Standard: EIA • Dielectric: Class 2 • Operating temperature range: -30°C ~ 85°C

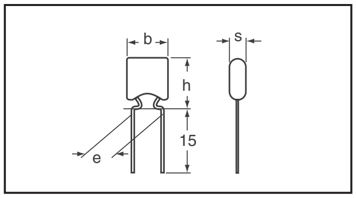

Type/ Tol.	VDC	Capac- itance	Dimensions (mm)				Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack	
			h	b	s	e		1	10	100		10	100	1,000		Qty.	Pricing
COG 5%	100	10pF	5.5	5.0	2.5	2.5	P4837-ND◆	.23	1.57	11.08	495-1000-1-ND◆	1.44	10.99	76.05	—	—	—
	100	10pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3267-1-ND◆	1.68	12.84	88.88	—	—	—
	100	10pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3292-1-ND◆	1.44	10.99	76.05	495-3292-2-ND◆‡	2,500	54.00/M
	100	18pF	5.5	5.0	2.5	2.5	P4840-ND◆	.23	1.57	11.08	—	—	—	—	—	—	—
	100	18pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3297-1-ND◆	1.47	11.21	77.63	495-3297-2-ND◆‡	2,500	55.00/M
	100	22pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3299-1-ND◆Δ	1.44	10.99	76.05	495-3299-2-ND◆‡Δ	2,500	54.00/M
	100	27pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3302-1-ND◆	1.47	11.21	77.63	495-3302-2-ND◆‡	2,500	55.00/M
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3303-1-ND◆	1.44	10.99	76.05	—	—	—
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3304-1-ND◆Δ	1.68	12.84	88.88	—	—	—
	100	47pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1008-1-ND◆	1.44	10.99	76.05	—	—	—
	100	47pF	5.5	5.0	2.5	5.0	495-3277-ND◆	.23	1.57	11.08	495-3278-1-ND◆	1.44	10.99	76.05	495-3278-2-ND◆‡	2,500	54.00/M
	100	47pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3307-1-ND◆	1.71	13.10	90.68	495-3307-2-ND◆‡	2,500	55.00/M
	100	68pF	5.5	5.0	2.5	2.5	P4847-ND◆	.23	1.57	11.08	—	—	—	—	—	—	—
	100	68pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3310-1-ND◆	1.44	10.99	76.05	—	—	—
	100	100pF	5.5	5.0	2.5	2.5	P4849-ND◆	.23	1.57	11.08	—	—	—	—	—	—	—
	100	100pF	5.5	5.0	2.5	5.0	495-3268-ND◆	.23	1.57	11.08	—	—	—	—	—	—	—
	100	100pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3293-1-ND◆	1.44	10.99	76.05	—	—	—
	100	220pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3273-1-ND◆	1.76	13.49	93.38	—	—	—
	100	220pF	5.5	5.0	2.5	2.5	495-3300-ND◆	.28	1.93	13.59	495-3301-1-ND◆	1.76	13.49	93.38	495-3301-2-ND◆‡	2,500	66.00/M
	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1017-1-ND	1.76	13.49	93.38	495-1017-3-ND	2,500	62.00/M
	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3279-1-ND◆	1.76	13.49	93.38	495-3279-2-ND◆‡	2,500	66.00/M
	100	470pF	5.5	5.0	2.5	2.5	495-3308-ND◆	.28	1.93	13.59	495-3309-1-ND◆	1.76	13.49	93.38	—	—	—
	100	680pF	5.5	5.0	2.5	5.0	P4859-ND◆	.23	1.73	12.35	—	—	—	—	—	—	—
	100	680pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3280-1-ND◆	1.76	13.49	93.38	—	—	—
	100	1000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3270-1-ND◆	2.44	18.62	128.93	—	—	—
	100	1000pF	5.5	5.0	2.5	2.5	495-3294-ND◆	.38	2.59	18.23	495-3295-1-ND◆	2.44	18.62	128.93	—	—	—
	100	2200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1024-1-ND◆	4.09	31.27	216.45	—	—	—
	100	2200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3369-1-ND◆	4.09	31.27	216.45	495-3369-2-ND◆‡	2,500	154.00/M
	50	100pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1025-1-ND◆	1.76	13.49	93.38	—	—	—
	50	100pF	5.5	5.0	2.5	5.0	495-3281-ND◆	.28	1.93	13.59	—	—	—	—	—	—	—
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1029-1-ND◆	1.76	13.49	93.38	—	—	—
	50	220pF	5.5	5.0	2.5	5.0	495-3284-ND◆	.28	1.93	13.59	495-3285-1-ND◆	1.76	13.49	93.38	—	—	—
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3314-1-ND◆	1.76	13.49	93.38	495-3314-2-ND◆‡	2,500	66.00/M
	50	330pF	5.5	5.0	2.5	5.0	495-3287-ND◆	.28	1.93	13.59	495-3288-1-ND◆	1.76	13.49	93.38	495-3288-2-ND◆‡	2,500	66.00/M
	50	470pF	5.5	5.0	2.5	5.0	495-3289-ND◆	.28	1.93	13.59	495-3290-1-ND◆	1.76	13.49	93.38	495-3290-2-ND◆‡	2,500	66.00/M
	50	470pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3317-1-ND◆	1.76	13.49	93.38	495-3317-2-ND◆‡	2,500	66.00/M
	50	820pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3291-1-ND◆	1.70	13.00	90.00	—	—	—
	50	2200pF	5.5	5.0	2.5	5.0	P4941-ND◆	.35	2.59	18.53	—	—	—	—	—	—	—
	50	2200pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3286-1-ND◆	2.71	20.70	143.33	—	—	—
	50	2200pF	5.5	5.0	2.5	2.5	495-3315-ND◆	.43	2.89	20.38	495-3316-1-ND◆	2.71	20.70	143.33	—	—	—
	50	3300pF	6.5	5.0	2.5	5.0	P4943-ND◆	.42	3.12	22.91	495-1042-1-ND◆	3.54	27.07	187.43	495-1042-3-ND◆	2,500	125.00/M
	50	3300pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3371-1-ND◆	3.54	27.07	187.43	495-3371-2-ND◆‡	2,500	133.00/M
	50	3900pF	6.5	5.0	2.5	5.0	495-3372-ND◆	.56	3.80	26.81	495-3373-1-ND◆	3.54	27.07	187.43	495-3373-2-ND◆‡	2,500	133.00/M
	50	4700pF	6.5	5.0	2.5	2.5	495-3379-ND◆	.72	4.87	34.32	495-3380-1-ND◆	4.53	34.68	240.08	495-3380-2-ND◆‡	2,500	171.00/M
	50	6800pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3375-1-ND◆	6.52	49.86	345.15	495-3375-2-ND◆‡	2,500	245.00/M
	50	10000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1047-1-ND◆	6.52	49.86	345.15	—	—	—
	50	10000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3370-1-ND◆	6.52	49.86	345.15	495-3370-2-ND◆‡	2,500	245.00/M
	50	10000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3376-1-ND◆	6.52	49.86	345.15	—	—	—
X7R 10%	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3330-1-ND◆	1.71	13.10	90.68	495-3330-2-ND◆‡	2,500	64.00/M
	100	680pF	5.5	5.0	2.5	5.0	495-3333-ND◆	.27	1.83	12.87	495-3334-1-ND◆	1.71	13.10	90.68	495-3334-2-ND◆‡	2,500	64.00/M
	100	1000pF	5.5	5.0	2.5	5.0	495-3321-ND◆	.27	1.83	12.87	495-3322-1-ND◆	1.71	13.10	90.68	—	—	—
	100	1500pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3344-1-ND◆	1.71	13.10	90.68	—	—	—
	100	2200pF	5.5	5.0	2.5	2.5	P4900-ND◆	.27	1.83	12.87	495-1487-1-ND◆	1.71	13.10	90.68	—	—	—

◆ ***RoHS Compliant*** ‡ Tape and Reel § 20% tolerance Δ 10% tolerance

(Continued)

Multilayer Ceramic Capacitors *(Cont.)*

Type/ Tol.	VDC	Capac- itance	Dimensions (mm)				Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack	
			h	b	s	e		1	10	100		10	100	1,000		Qty.	Pricing
X7R 10%	100	2200pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3345-1-ND◆	1.71	13.10	90.68	495-3345-2-ND◆‡	2,500	64.00/M
	100	3300pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3329-1-ND◆	2.00	15.31	105.98	495-3329-2-ND◆‡	2,500	75.00/M
	100	4700pF	5.5	5.0	2.5	5.0	495-3331-ND◆	.28	1.93	13.59	495-3332-1-ND◆	1.76	13.49	93.38	—	—	—
	100	4700pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3346-1-ND◆	1.76	13.49	93.38	—	—	—
	100	10000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3325-1-ND◆	1.76	13.49	93.38	—	—	—
	100	10000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3343-1-ND◆	1.76	13.49	93.38	—	—	—
	100	18000pF	6.5	5.0	2.5	2.5	495-3402-ND◆	.36	2.43	17.16	495-3403-1-ND◆	2.27	17.32	119.93	495-3403-2-ND◆‡	2,500	85.00/M
	100	22000pF	6.5	5.0	2.5	2.5	P4906-ND◆	.36	2.43	17.16	495-1056-1-ND◆	2.27	17.32	119.93	—	—	—
	100	22000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3388-1-ND◆§	2.65	20.25	140.18	495-3388-2-ND◆‡§	2,500	100.00/M
	100	.1µF	6.5	5.0	2.5	2.5	P4910-ND◆	.48	3.50	25.03	—	—	—	—	—	—	—
	100	.1µF	6.5	5.0	2.5	5.0	495-3382-ND◆	.58	3.90	27.53	495-3383-1-ND◆	4.70	35.95	248.85	—	—	—
	100	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3384-1-ND◆§	3.63	27.79	192.38	495-3384-2-ND◆‡§	2,500	137.00/M
	100	.1µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3400-1-ND◆	3.63	27.79	192.38	—	—	—
	100	.15µF	6.5	5.0	2.5	5.0	P4911-ND◆	.48	3.58	26.27	495-1061-1-ND◆	4.09	31.27	216.45	—	—	—
	100	.15µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3401-1-ND◆	4.78	36.56	253.13	495-3401-3-ND◆	2,500	180.00/M
	50	3300pF	5.5	5.0	2.5	5.0	495-3338-ND◆	.27	1.83	12.87	495-3339-1-ND◆	1.71	13.10	90.68	495-3339-2-ND◆‡	2,500	64.00/M
	50	4700pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1063-1-ND◆	1.71	13.10	90.68	—	—	—
	50	4700pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3340-1-ND◆	1.71	13.10	90.68	495-3340-2-ND◆‡	2,500	64.00/M
	50	10000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3348-1-ND◆§	1.71	13.10	90.68	—	—	—
	50	22000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3337-1-ND◆	1.76	13.49	93.38	—	—	—
	50	22000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3351-1-ND◆	1.76	13.49	93.38	—	—	—
	50	47000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1069-1-ND◆	2.10	16.09	111.38	—	—	—
	50	47000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3341-1-ND◆	2.10	16.09	111.38	—	—	—
	50	47000pF	5.5	5.0	2.5	2.5	495-3352-ND◆	.36	2.43	17.16	495-3353-1-ND◆	2.38	18.17	125.78	—	—	—
	50	47000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3354-1-ND◆§	2.38	18.17	125.78	495-3354-3-ND◆§	2,500	89.44/M
	50	68000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3399-1-ND◆	2.54	19.40	134.33	—	—	—
	50	68000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3411-1-ND◆	2.97	22.69	157.05	—	—	—
	50	.1µF	5.5	5.0	2.5	2.5	—	—	—	—	495-3350-1-ND◆	1.11	8.52	58.95	—	—	—
	50	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3392-1-ND◆§	1.94	14.82	102.60	—	—	—
	50	.1µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3408-1-ND◆§	1.94	14.82	102.60	495-3408-2-ND◆‡§	2,500	73.00/M
	50	.15µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3395-1-ND◆	3.71	28.34	196.20	—	—	—
	50	.15µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3409-1-ND◆	3.71	28.34	196.20	—	—	—
	50	.22µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3396-1-ND◆	4.53	34.68	240.08	—	—	—
	50	.22µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3410-1-ND◆	4.53	34.68	240.08	—	—	—
	50	.68µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3366-1-ND◆§	14.14	108.16	748.80	495-3366-2-ND◆‡§	2,000	499.00/M
	50	.82µF	9.0	7.5	2.5	5.0	495-3367-ND◆	2.72	18.47	130.24	495-3368-1-ND◆	20.03	153.14	1060.20	495-3368-2-ND◆‡	2,000	707.00/M
	50	1.0µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3359-1-ND◆§	17.13	130.98	906.75	495-3359-2-ND◆‡§	2,000	605.00/M
Z5U	50	1.5µF	9.0	7.5	2.5	5.0	—	—	—	—	495-2630-1-ND◆	5.32	40.66	281.48	495-2630-3-ND◆		—

◆ ***RoHS Compliant*** ‡ Tape and Reel § 20% tolerance Δ 10% tolerance

AVX TPC Epoxy Coated AC and Switch Mode Ceramic Disc Capacitors

These capacitors are made of a new dielectric compound specially developed for AC or switch mode circuits that can generate dielectric heat, which is the limiting factor on other ceramic disc capacitors.

This series adds the advantages of Class 1 capacitors (low loss factor) with the advantages of Class 2 capacitors (small size and lower cost). These capacitors are epoxy coated, flame retardant class UL94V-0. They meet the standards of the telecom and data processing industry. They are particularly suited for TV deflection and power supply circuits.

Specifications:

- Insulation Resistance @ 500V: ≥10GΩ
- Operating Temperature: -40°C ~ 125°C

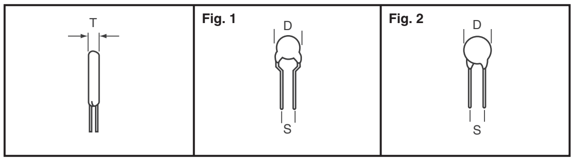

Fig.	VDC	Capacitance (pF)	Temperature Coefficient	Tolerance (%)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack Pricing 1,500	AVX Part No.
					D	S	T		1	10	100			
1	2000	270	Y5P	±10	7	5	4	478-4292-1-ND	—	4.07	24.05	—	—	6LS271KNDCM
	2000	330	Y5P	±10	8	5	4	478-4293-1-ND	—	8.91	52.65	478-4293-3-ND	146.00/M	6LS331KNECM
	2000	470	Y5P	±10	9	5	5	478-4295-1-ND	—	10.78	63.70	478-4295-3-ND	176.00/M	6LS471KNFCM
	2000	1000	Y5P	±10	11	5	5	478-4289-1-ND	—	11.88	70.20	—	—	6LS102KNHCM
2	2000	470	Y5P	±10	9	7.5	5	478-4294-ND‡	.27	2.52	18.20	—	—	6LS471KBFCT
	2000	1000	Y5P	±10	11	7.5	5	478-4288-ND‡	.30	2.84	20.48	—	—	6LS102KBHCT
	2000	2200	Y5U	-20 / +50	9	5	5	478-4284-1-ND	—	4.84	28.60	—	—	67S222SAFCI
	2000	2200	Y5U	-20 / +50	9	5	5	478-4285-1-ND	—	9.13	53.95	—	—	67S222SAFCK

‡ Bulk

AVX DIPGuard® MD Series Leaded Ceramic Capacitors

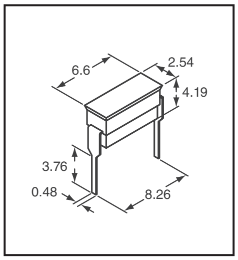

Dielectric	VDC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	AVX Part No.
X7R	100	10000pF	±10%	478-4875-ND	1.73	12.74	91.00	327.60	MD011C103KAB
	50	10000pF	±10%	478-4874-ND	1.53	11.27	80.50	289.80	MD015C103KAB
	50	1000pF	±10%	478-5057-ND◆	1.16	10.08	67.20	308.00	MD015C102KAB
	50	.10µF	±10%	478-4873-ND	2.13	15.68	112.00	403.20	MD015C104KAB
	50	.10µF	±20%	478-4872-ND	1.73	12.74	91.00	327.60	MD015C104MAB
	50	.22µF	±10%	478-5196-ND◆	3.44	25.38	181.25	652.50	MD025C224KAB
Z5U	50	10000pF	±20%	478-4871-ND	1.08	7.98	57.00	205.20	MD015E103MAB
	50	.10µF	±20%	478-4870-ND	1.27	9.35	66.75	240.30	MD015E104MAB
	50	.10µF	-20% / +80%	478-5194-ND◆	1.21	8.89	63.50	228.60	MD015E104ZAB
	50	.22µF	±20%	478-5195-ND◆	1.84	13.55	96.75	348.30	MD015E224MAB

◆ ***RoHS Compliant***

AVX TPC Radial Leaded Ceramic Disc Capacitors

RoHS COMPLIANT

Class 1 Dielectric Features: These ceramic capacitors have a linear temperature coefficient, very low tolerances, low losses, high insulation resistance, and are especially suited for tuned circuits, timing and other precision circuits. **Specifications:** • Insulation Resistance: ≥10GΩ • Operating Temperature Range: -30°C ~ 85°C

SL Dielectric Features: These capacitors have wide temperature characteristics but still offer low loss and linear type temperature coefficients. They are specially designed to be a smaller alternative to standard Class 1 capacitors of linear temperature coefficient. Typical application is RF tuning. **Specifications:** • Operating Temperature: -30°C ~ 85°C

Class 2 Dielectric Features: These ceramic capacitors have a high dielectric constant, which makes possible high capacitance values in reduced dimensions. However, temperature coefficient and loss factor are greater than Class 1. Typical applications include decoupling and bypass. **Specifications:** • Insulation Resistance: ≥10GΩ • Operating Temperature Range: -30°C ~ 85°C

Class 3 Dielectric Features: A thin dielectric layer is grown on a disc of conductive ceramic. Very large capacitances can be obtained due to reduced thickness of this barrier layer and its inherently high dielectric constant. Due to its small dimensions, they are a less expensive replacement of multilayer ceramic or polyester capacitors. **Specifications:** • Operating Temperature Range: -30°C ~ 85°C

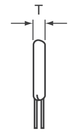

Fig. 1

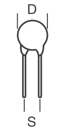

Fig. 2

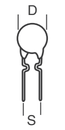

Fig. 3

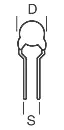

Fig.	VDC	Capacitance (pF)	Temp. Coefficient	Tolerance (%)	Dimension (mm) D	Dimension (mm) S	Dimension (mm) T	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Ammo Pack Qty.	Ammo Pack Pricing	AVX Part No.
								Class 1 Dielectric							
1	100	22	NP0	±5	5	5	4	478-4204-1-ND	—	2.09	12.35	—	—	—	5AK220JABAI
1	100	27	NP0	±10	5	5	4	478-4206-1-ND	—	3.30	19.50	478-4206-3-ND	2,000	54.00/M	5AK270KABJI
1	100	68	NP0	±5	8	5	4	478-4208-1-ND	—	3.85	22.75	478-4208-2-ND◊	2,000	63.00/M	5AK680JAEJH
1	100	120	NP0	±10	9	5	5	478-4203-1-ND	—	3.96	23.40	—	—	—	5AK121KAFJI
2	500	120	NP0	±10	7	5	4	478-4209-1-ND	—	4.29	25.35	478-4209-3-ND	2,000	70.00/M	5AQ470KODAM
								SL Dielectric							
2	100	56	SL	±10	4	5	3	478-4211-1-ND	—	4.95	29.25	478-4211-3-ND	2,000	81.00/M	5KK560KOAAM
	500	330	SL	±5	6	5	3	478-4212-1-ND	—	5.17	30.55	—	—	—	5KQ331JOCAM
								Class 2 Dielectric							
2	100	100	Y5F	±10	4	5	3	478-4216-1-ND	—	2.64	15.60	—	—	—	5NK101KOAAM
1	100	220	Y5P	±20	4	5	3	478-4244-1-ND	—	3.19	18.85	478-4244-3-ND	2,000	52.00/M	5OK221MAAJI
2	100	470	Y5P	±10	4	5	3	478-4246-1-ND	—	3.19	18.85	478-4246-3-ND	2,000	52.00/M	5OK471KOAAM
1	100	470	Y5P	±20	4	5	3	478-4247-1-ND	—	3.19	18.85	478-4247-3-ND	2,000	52.00/M	5OK471MAAJI
2	100	470	Y5F	±10	5	5	4	478-4217-1-ND	—	3.19	18.85	478-4217-3-ND	2,000	52.00/M	5NK471KOBAM
2	100	2200	Y5P	±10	8	5	4	478-4245-1-ND	—	3.52	20.80	478-4245-3-ND	2,000	58.00/M	5OK222KOEAM
2	100	10000	Y5U	-20 / +50	11	5	5	478-4259-1-ND	—	4.84	28.60	—	—	—	5SK103SOHAM
2	100	10000	Z5V	-20 / +50	5	5	4	478-4268-1-ND	—	3.85	22.75	478-4268-3-ND	2,000	63.00/M	5UK103ZOBAM
2	500	100	Y5P	±10	4	5	3	478-4248-1-ND	—	4.18	24.70	478-4248-3-ND	2,000	68.00/M	5OQ101KOAAM
2	500	100	Y5E	±10	4	5	3	478-4214-1-ND	—	3.63	21.45	478-4214-3-ND	2,000	59.00/M	5MQ101KOAAM
2	500	100	Y5F	±10	4	5	3	478-4218-1-ND	—	2.86	16.90	478-4218-3-ND	2,000	47.00/M	5NQ101KOAAM
2	500	390	Y5E	±10	5	5	4	478-4215-1-ND	—	4.18	24.70	—	—	—	5MQ391KOBAM
2	500	390	Y5F	±10	4	5	3	478-4220-1-ND	—	3.30	19.50	478-4220-3-ND	2,000	54.00/M	5NQ391KOAAM
2	500	470	Y5F	±10	5	5	4	478-4221-1-ND	—	2.86	16.90	478-4221-3-ND	2,000	47.00/M	5NQ471KOBAM
2	500	560	Y5P	±10	4	5	3	478-4257-1-ND	—	3.30	19.50	478-4257-3-ND	2,000	54.00/M	5OQ561KOAAM
2	500	820	Y5F	±10	6	5	4	478-4222-1-ND	—	3.52	20.80	—	—	—	5NQ821KOCAM
1	500	1000	Y5P	±10	6	5	4	478-4249-1-ND	—	3.96	23.40	—	—	—	5OQ102KACAH
2	500	1000	Y5U	±20	4	5	3	478-4262-1-ND	—	3.52	20.80	478-4262-3-ND	2,000	58.00/M	5SQ102MOAAM
2	500	1000	Y5P	±20	6	5	4	478-4252-1-ND	—	3.30	19.50	478-4252-3-ND	2,000	54.00/M	5OQ102MOCAM
2	500	1500	Y5P	±10	7	5	4	478-4253-1-ND	—	4.84	28.60	478-4253-3-ND	2,000	79.00/M	5OQ152KODAM
1	1000	470	Y5F	±10	5	5	4	478-4233-1-ND	—	4.51	26.65	478-4233-2-ND◊	2,000	74.00/M	5NR471KABLH
1	1000	1000	Y5F	±10	7	5	4	478-4224-1-ND	—	3.41	20.15	—	—	—	5NR102KADLH
3	1000	1000	Y5F	±10	7	5	4	478-4225-1-ND	—	3.63	21.45	—	—	—	5NR102KNDCM
3	1000	1000	Y5F	±10	7	5	4	478-4226-1-ND	—	4.29	25.35	478-4226-3-ND	1,500	70.00/M	5NR102KNDLM
3	1000	1000	Y5F	±10	8	5	4	478-4227-ND‡	.39	3.69	26.65	—	—	—	5NR102KNECA
2	1000	3300	Y5F	±10	13	10	6	478-4232-ND‡	.42	4.01	28.93	—	—	—	5NR332KWJCA
2	2000	470	Y5F	±10	8	7.5	4	478-4238-ND‡	.20	1.89	13.65	—	—	—	5NS471KRECA
2	2000	1800	Y5F	±10	11	7.5	5	478-4236-ND‡	.26	2.43	17.55	—	—	—	5NS182KRHCA
2	2000	2200	Y5F	±10	13	10	6	478-4237-ND‡	.29	2.79	20.15	—	—	—	5NS222KWJCA
1	2000	4700	Y5U	-20 / +50	11	7.5	5	478-4267-ND‡	.26	3.74	26.98	—	—	—	5SS472SBHCA
3	2000	4700	Y5U	±20	11	5	5	478-4266-1-ND	—	8.91	52.65	478-4266-3-ND	1,500	146.00/M	5SS472MNHCM
2	3000	1000	Y5F	±10	10	10	5	478-4239-ND‡	.22	2.12	15.28	—	—	—	5NT102KWGCA
								Class 3 Dielectric							
1	25	0.1µF	Y5P	±20	13	6	3.5	478-5193-ND‡	.36	3.38	24.38	—	—	—	5WF104MEJAA
1	50	10000	Y5U	-20 / +80	4	5	3	478-4271-1-ND	—	3.52	20.80	478-4271-2-ND◊	2,500	58.00/M	5YH103ZAAJA
1	50	10000	Y5U	-20 / +80	4	5	3	478-4272-1-ND	—	2.31	13.65	478-4272-3-ND	2,000	38.00/M	5YH103ZAAJI
1	50	10000	Y5P	-20 / +80	6	5	3	478-4270-1-ND	—	3.85	22.75	478-4270-2-ND◊	2,500	63.00/M	5WH103ZACJH
2	50	47000	Y5U	-20 / +80	8	5	3	478-4273-1-ND	—	4.29	25.35	478-4273-3-ND	2,000	70.00/M	5YH473ZOEAM
2	50	0.1µF	Y5V	-20 / +80	6	5	3	478-4279-1-ND	—	4.51	26.65	478-4279-3-ND	2,000	74.00/M	5ZH104ZOCAM
2	50	0.1µF	Y5V	-20 / +80	6	5	3	478-4280-1-ND	—	3.52	20.80	—	—	—	5ZH104ZOCJA
2	50	0.1µF	Y5V	-20 / +80	6	5	3	478-4281-1-ND	—	3.52	20.80	478-4281-2-ND◊	2,500	58.00/M	5ZH104ZOCJL

◊ Tape and Reel ‡ Bulk

AVX TPC Safety Ceramic Disc Capacitors

X Function: Applications where the capacitor failure does not lead to the danger of electrical shock. There are 3 subclasses related to the peak voltage of the impulses superimposed to the main voltage; Subclass X1: Impulses up to 4kV; Subclass X2: impulses up to 2.5kV.

Y Function: Applications where the capacitor failure may lead to the danger of electrical shock. There are 4 subclasses related to the peak voltage of the impulses applied before life test. Subclass Y1: Impulses up to 8kV; Subclass Y2: Impulses up to 5kV; Subclass Y3: Rated for 250VAC without impulses.

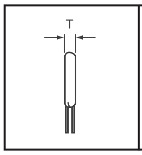

Fig. 1

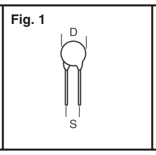

Fig. 2

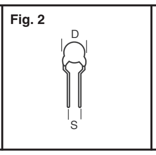

Fig. 3

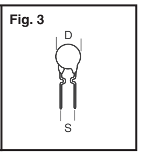

Fig.	Cap. (pF)	Tolerance (%)	Dimension (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T& R Pricing 1,000	AVX Part No.
			D	S	T		1	10	100			
X1/Y1 — Test Voltage 4kVAC												
1	470	±20	8	10	4	478-4300-ND‡	.29	2.79	20.15	—	—	61V471MCECT
X1/Y2 — Test Voltage 2.5kVAC												
1	1000	±20	8	7.5	4	478-4303-ND‡	.39	3.74	26.98	—	—	62O102MBECA
	1000	±20	8	7.5	4	478-4304-1-ND	—	9.68	57.20	—	—	62O102MBECH
	4700	±20	15	7.5	6	478-4309-ND‡	.89	8.46	61.10	—	—	62O472MBKCA
2	1000	±20	8	7.5	4	478-4306-1-ND	—	11.33	66.95	478-4306-2-ND	185.00	62O102MQECS
	1000	±20	8	7.5	4	478-4307-1-ND	—	11.33	66.95	478-4307-2-ND	185.00	62O102MQEIS
3	4700	-20 / +50	15	10	6	478-4310-ND‡	.93	8.78	63.38	—	—	62O472SWKCE
X2/Y3 — Test Voltage 1.5kVAC												
1	4700	-20 / +50	15	7.5	6	478-4313-ND‡	.52	4.95	35.75	—	—	65N472SBKCT
3	4700	-20 / +50	15	7.5	6	478-4314-ND‡	.74	7.02	50.70	—	—	65N472SRKCT

‡ Bulk

AVX AR Series SkyCap® Automotive Radial Leaded Ceramic Capacitors

The SkyCap series is the industry leading conformally coated radial leaded multilayer capacitor.

Case Materials:

• Epoxy • Lead Material: 100% Tin • Qualified to AEC-Q200 • Temperature Range up to 150°C

Size Code	Dimensions – Inch (mm)			
	W Max.	H Max.	T Max.	L.S
15	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)
20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)
21	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)
30	.300 (7.62)	.300 (7.62)	.150 (3.81)	.200 (5.08)
40	.400 (10.16)	.400 (10.16)	.150 (3.81)	.200 (5.08)

Fig. 1

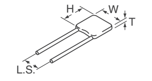

Fig. 2

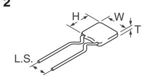

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	AVX Part No.
1	C0G (NP0)	15	50	100pF	±10	478-5083-ND	.45	3.29	23.50	AR155A101K4R
	C0G (NP0)	15	50	1000pF	±10	478-5084-ND	.48	3.57	25.50	AR155A102K4R
2	C0G (NP0)	21	200	10pF	±5	478-5102-ND	.44	3.28	23.40	AR212A100J4R
	C0G (NP0)	21	200	22pF	±5	478-5104-ND	.44	3.28	23.40	AR212A220J4R
	C0G (NP0)	21	200	33pF	±5	478-5106-ND	.57	4.21	30.05	AR212A330J4R
	C0G (NP0)	21	200	47pF	±5	478-5107-ND	.57	4.21	30.05	AR212A470J4R
	C0G (NP0)	21	200	100pF	±5	478-5103-ND	.57	4.21	30.05	AR212A101J4R
	C0G (NP0)	21	200	220pF	±5	478-5105-ND	.57	4.21	30.05	AR212A221J4R
	C0G (NP0)	21	100	100pF	±10	478-4495-ND	.45	3.29	23.50	AR211A101K4R
	C0G (NP0)	21	100	330pF	±5	478-5099-ND	.57	4.21	30.05	AR211A331J4R
	C0G (NP0)	21	100	470pF	±5	478-5100-ND	.57	4.21	30.05	AR211A471J4R
	C0G (NP0)	21	100	1000pF	±10	478-4496-ND	.51	3.78	27.00	AR211A102K4R
	C0G (NP0)	21	50	33pF	±10	478-5112-ND	.40	2.92	20.88	AR215A330K4R
	C0G (NP0)	21	50	100pF	±10	478-5108-ND	.45	3.29	23.50	AR215A101K4R
	C0G (NP0)	21	50	1000pF	±5	478-5109-ND	.63	4.65	33.23	AR215A102J4R
	C0G (NP0)	21	50	2200pF	±5	478-5111-ND	1.14	8.41	60.10	AR215A222J4R
	C0G (NP0)	21	50	4700pF	±5	478-5113-ND	1.32	9.74	69.58	AR215A472J4R
	C0G (NP0)	21	50	8200pF	±5	478-5114-ND	1.39	10.27	73.38	AR215A822J4R
1	X7R	15	100	4700pF	±10	478-5082-ND	.35	2.57	18.35	AR151C472K4R
	X7R	15	100	10000pF	±10	478-5081-ND	.38	2.80	20.00	AR151C103K4R
	X7R	20	100	1000pF	±10	478-5088-ND	.45	3.29	23.50	AR201C102K4R
	X7R	15	50	1000pF	±10	478-5085-ND	.31	2.28	16.25	AR155C102K4R
	X7R	15	50	10000pF	±10	478-4497-ND	.32	2.35	16.78	AR155C103K4R
	X7R	15	50	15000pF	±10	478-5086-ND	.32	2.35	16.78	AR155C153K4R
	X7R	15	50	.10µF	±10	478-4498-ND	.38	2.80	20.00	AR155C104K4R

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	AVX Part No.
1	X7R	20	100	10000pF	±10	478-5089-ND	.45	3.29	23.50	AR201C103K4R
	X7R	20	100	.10µF	±10	478-5090-ND	.51	3.73	26.63	AR201C104K4R
	X7R	40	100	1.0µF	±10	478-4504-ND	9.02	66.43	474.50	AR401C105K4R
	X7R	20	50	.22µF	±10	478-5092-ND	1.11	8.19	58.50	AR205C224K4R
	X7R	30	50	.33µF	±10	478-5122-ND	1.84	13.55	96.78	AR305C334K4R
	X7R	30	50	.47µF	±10	478-4503-ND	2.35	17.29	123.50	AR305C474K4R
2	X7R	21	100	1000pF	±10	478-4499-ND	.42	3.08	22.00	AR211C102K4R
	X7R	21	100	10000pF	±10	478-4500-ND	.42	3.08	22.00	AR211C103K4R
	X7R	21	100	.10µF	±10	478-4501-ND	.51	3.73	26.63	AR211C104K4R
	X7R	21	50	1000pF	±10	478-5115-ND	.41	3.05	21.75	AR215C102K4R
	X7R	21	50	10000pF	±10	478-5116-ND	.41	3.05	21.75	AR215C103K4R
	X7R	21	50	47000pF	±10	478-5118-ND	.44	3.28	23.40	AR215C473K4R
	X7R	21	50	.10µF	±10	478-5117-ND	.48	3.50	25.00	AR215C104K4R
	X7R	21	50	.22µF	±10	478-4502-ND	1.16	8.58	61.25	AR215C224K4R
1	X8R	20	50	1000pF	±10	478-5094-ND	.57	4.19	29.90	AR205F102K4R
	X8R	20	50	10000pF	±10	478-5095-ND	.57	4.19	29.90	AR205F103K4R
	X8R	20	50	47000pF	±10	478-5098-ND	.51	3.77	26.90	AR205F473K4R
	X8R	20	50	.10µF	±10	478-5096-ND	.56	4.13	29.50	AR205F104K4R
	X8R	20	50	.33µF	±10	478-5097-ND	.60	4.40	31.40	AR205F334K4R
2	X8R	21	50	1000pF	±10	478-4492-ND	.50	3.68	26.25	AR215F102K4R
	X8R	21	50	10000pF	±10	478-4493-ND	.50	3.68	26.25	AR215F103K4R
	X8R	21	50	22000pF	±10	478-5119-ND	.38	2.77	19.80	AR215F223K4R
	X8R	21	50	47000pF	±10	478-5121-ND	.53	3.89	27.75	AR215F473K4R
	X8R	21	50	.10µF	±10	478-4494-ND	.57	4.20	30.00	AR215F104K4R
	X8R	21	50	.33µF	±10	478-5120-ND	.50	3.72	26.58	AR215F334K4R

SpinGuard® Axial Leaded Ceramic Capacitors

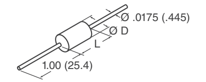

The SpinGuard series is the industry leading conformally coated axial leaded multilayer capacitor. **Applications:** • Decoupling • Filtering

Dielec-tric	VDC	Cap.	Cap. Tol. (%)	Dimensions - Inch (mm)		Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		AVX Part No.
				L Max.	D Max.		1	10	100	1,000		Qty.	Pricing	
C0G (NP0)	200	10pF	±5	.170 (4.32)	.100 (2.54)	478-5200-1-ND◆	.17	1.62	11.70	81.00	478-5200-2-ND◆	7,500	54.00/M	SA102A100JAR
	200	15pF	±5	.170 (4.32)	.100 (2.54)	478-5201-1-ND◆	.30	2.85	20.57	142.43	478-5201-2-ND◆	7,500	95.00/M	SA102A150JAR
	200	22pF	±5	.170 (4.32)	.100 (2.54)	478-3142-1-ND◆	.19	1.85	13.33	92.25	478-3142-2-ND◆	7,500	62.00/M	SA102A220JAR
	200	33pF	±5	.170 (4.32)	.100 (2.54)	478-5202-1-ND◆	.30	2.85	20.57	142.43	478-5202-2-ND◆	7,500	95.00/M	SA102A330JAR
	200	100pF	±5	.170 (4.32)	.100 (2.54)	478-3141-1-ND◆	.19	1.85	13.33	92.25	478-3141-2-ND◆	7,500	62.00/M	SA102A101JAR
	100	1000pF	±5	.170 (4.32)	.100 (2.54)	478-6060-1-ND◆ ***NEW!***	.24	2.25	16.25	112.50	478-6060-2-ND◆ ***NEW!***	7,500	75.00/M	SA101A102JAR
	100	220pF	±5	.170 (4.32)	.100 (2.54)	478-5197-1-ND◆	.17	1.62	11.70	81.00	478-5197-2-ND◆	7,500	54.00/M	SA101A221JAR
	100	470pF	±5	.118 (3.00)	.090 (2.30)	478-4841-1-ND◆	.31	2.93	21.13	146.25	478-4841-2-ND◆	7,500	54.00/M	SA101A471JAR
	50	1000pF	±5	.170 (4.32)	.100 (2.54)	478-3147-1-ND◆	.23	2.16	15.60	108.00	478-3147-2-ND◆	7,500	72.00/M	SA105A102JAR
X7R	100	1000pF	±10	.170 (4.32)	.100 (2.54)	478-3143-1-ND◆	.16	1.53	11.05	76.50	478-3143-2-ND◆	7,500	51.00/M	SA101C102KAR
	100	2200pF	±10	.170 (4.32)	.100 (2.54)	478-5198-1-ND◆	.28	2.66	19.18	132.75	478-5198-2-ND◆	7,500	89.00/M	SA101C222KAR
	100	4700pF	±10	.118 (3.00)	.090 (2.30)	478-4842-1-ND◆	.28	2.66	19.18	132.75	478-4842-2-ND◆	7,500	47.00/M	SA101C472KAR
	100	10000pF	±10	.170 (4.32)	.100 (2.54)	478-3144-1-ND◆	.16	1.53	11.05	76.50	478-3144-2-ND◆	7,500	51.00/M	SA101C103KAR
	100	56000pF	±10	.290 (7.37)	.150 (3.81)	478-2429-1-ND	.31	2.93	21.13	146.25	—	—	—	SA301C563KAA
	100	56000pF	±10	.290 (7.37)	.150 (3.81)	478-3145-1-ND◆	.37	3.51	25.35	175.50	478-3145-2-ND◆	5,000	117.00/M	SA301C563KAR
	100	.10µF	±10	.290 (7.37)	.150 (3.81)	478-3146-1-ND◆	.39	3.69	26.65	184.50	478-3146-2-ND◆	5,000	123.00/M	SA301C104KAR
	50	10000pF	±5	.170 (4.32)	.100 (2.54)	478-5204-1-ND◆	.42	4.01	28.93	200.25	478-5204-2-ND◆	7,500	134.00/M	SA105C103JAR
	50	10000pF	±10	.170 (4.32)	.100 (2.54)	478-3148-1-ND◆	.16	1.49	10.73	74.25	478-3148-2-ND◆	7,500	50.00/M	SA105C103KAR
	50	22000pF	±10	.170 (4.32)	.100 (2.54)	478-5205-1-ND◆	.21	2.03	14.63	101.25	478-5205-2-ND◆	7,500	68.00/M	SA105C223KAR
	50	.10µF	±10	.170 (4.32)	.100 (2.54)	478-3150-1-ND◆	.17	1.62	11.70	81.00	478-3150-2-ND◆	7,500	54.00/M	SA105C104KAR
	50	.10µF	±10	.170 (4.32)	.120 (3.05)	478-3151-1-ND◆	.19	1.85	13.33	92.25	478-3151-2-ND◆	5,000	62.00/M	SA115C104KAR
	50	.10µF	±10	.260 (6.60)	.100 (2.54)	478-2436-1-ND	.21	2.03	14.63	101.25	478-2436-2-ND	5,000	68.00/M	SA205C104KAA
	50	.10µF	±10	.260 (6.60)	.100 (2.54)	478-3152-1-ND◆	.26	2.43	17.55	121.50	478-3152-2-ND◆	5,000	81.00/M	SA205C104KAR
	50	.10µF	±10	.290 (7.37)	.150 (3.81)	478-5207-1-ND◆	.36	3.38	24.38	168.75	478-5207-2-ND◆	5,000	113.00/M	SA305C104KAR
	50	.22µF	±10	.290 (7.37)	.150 (3.81)	478-3153-1-ND◆	.64	6.08	43.88	303.75	478-3153-2-ND◆	5,000	203.00/M	SA305C224KAR
X5R	10	3.3µF	±10	.170 (4.32)	.100 (2.54)	478-3974-1-ND	1.02	9.68	69.88	483.75	478-3974-2-ND	7,500	323.00/M	SA10ZD335KAA
Z5U	100	.10µF	±20	.170 (4.32)	.120 (3.05)	478-3154-1-ND◆	.16	1.53	11.05	76.50	478-3154-2-ND◆	5,000	51.00/M	SA111E104MAR
	50	10000pF	±20	.170 (4.32)	.100 (2.54)	478-3155-1-ND◆	.16	1.53	11.05	76.50	478-3155-2-ND◆	7,500	51.00/M	SA105E103MAR
	50	.10µF	±20	.170 (4.32)	.100 (2.54)	478-3156-1-ND◆	.16	1.53	11.05	76.50	478-3156-2-ND◆	7,500	51.00/M	SA105E104MAR
	50	.10µF	-20/+80	.170 (4.32)	.100 (2.54)	478-3157-1-ND◆	.16	1.53	11.05	76.50	478-3157-2-ND◆	7,500	51.00/M	SA105E104ZAR
	50	.22µF	±20	.170 (4.32)	.100 (2.54)	478-5797-ND‡◆ ***NEW!***	.27	1.96	14.00	78.40	—	—	—	SA105E224MAR
	50	.33µF	±20	.170 (4.32)	.120 (3.05)	478-5206-1-ND◆	.32	3.02	21.78	150.75	478-5206-2-ND◆	5,000	101.00/M	SA115E334MAR
	50	.47µF	±20	.290 (7.37)	.150 (3.81)	478-3158-1-ND◆	.51	4.86	35.10	243.00	478-3158-2-ND◆	5,000	162.00/M	SA305E474MAR
	50	1.0µF	±20	.290 (7.37)	.150 (3.81)	478-3159-1-ND◆	.74	6.98	50.38	348.75	478-3159-2-ND◆	5,000	233.00/M	SA305E105MAR

‡ Bulk ◆ ***RoHS Compliant***

AVX SkyCap® Radial Leaded Ceramic Capacitors

The SkyCap series is the industry leading conformally coated radial leaded multilayer capacitor.
Applications: • Decoupling • Filtering • Automotive

Size Code	Dimensions – Inch (mm) W Max.	H Max.	T Max.	L.S
15	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)
20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)
21	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)
22	.200 (5.08)	.200 (5.08)	.125 (3.175)	.250 (6.35)
27	.260 (6.604)	.250 (6.35)	.160 (4.06)	.300 (7.62)
29	.217 (5.51)	.236 (5.99)	.125 (3.175)	.100 (2.54)
30	.300 (7.62)	.300 (7.62)	.150 (3.81)	.200 (5.08)
40	.400 (10.16)	.400 (10.16)	.150 (3.81)	.200 (5.08)
50	.500 (12.70)	.500 (10.16)	.200 (5.08)	.400 (10.16)

Fig. 1

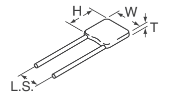

Fig. 2

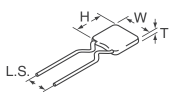

Fig. 3 ***NEW!***

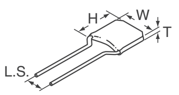

Fig. 4 ***NEW!***

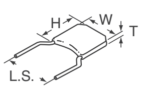

Fig.	Dielectric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1	C0G (NPO)	15	200	10pF	±10	478-3160-ND	.20	1.51	10.75	SR152A100KAR
	C0G (NPO)	15	200	15pF	±10	478-3161-ND	.20	1.51	10.75	SR152A150KAR
	C0G (NPO)	15	200	22pF	±10	478-3162-ND	.20	1.51	10.75	SR152A220KAR
	C0G (NPO)	15	200	33pF	±10	478-3163-ND	.20	1.51	10.75	SR152A330KAR
	C0G (NPO)	15	200	47pF	±10	478-3164-ND	.20	1.51	10.75	SR152A470KAR
	C0G (NPO)	15	200	68pF	±10	478-3165-ND	.20	1.51	10.75	SR152A680KAR
	C0G (NPO)	15	100	10pF	±5	478-4843-ND	.19	1.37	9.75	SR151A100JAR
	C0G (NPO)	15	100	15pF	±5	478-4845-ND	.36	2.66	18.98	SR151A150JAR
	C0G (NPO)	15	100	18pF	±5	478-5210-ND	.36	3.42	24.67	SR151A180JAR
	C0G (NPO)	15	100	22pF	±5	478-4846-ND	.19	1.37	9.75	SR151A220JAR
	C0G (NPO)	15	100	27pF	±5	478-4848-ND	.36	2.66	18.98	SR151A270JAR
	C0G (NPO)	15	100	33pF	±5	478-4849-ND	.19	1.37	9.75	SR151A330JAR
	C0G (NPO)	15	100	39pF	±5	478-5213-ND	.17	1.58	11.38	SR151A390JAR
	C0G (NPO)	15	100	47pF	±5	478-4850-ND	.36	2.66	18.98	SR151A470JAR
	C0G (NPO)	15	100	68pF	±5	478-5215-ND	.36	3.42	24.67	SR151A680JAR
	C0G (NPO)	15	100	82pF	±5	478-5216-ND	.36	3.42	24.67	SR151A820JAR
	C0G (NPO)	15	100	100pF	±5	478-4844-ND	.23	1.69	12.10	SR151A101JAR
	C0G (NPO)	15	100	100pF	±10	478-3166-ND	.17	1.26	9.00	SR151A101KAR
	C0G (NPO)	15	100	120pF	±5	478-5208-ND	.40	3.83	27.66	SR151A121JAR
	C0G (NPO)	15	100	150pF	±5	478-5209-ND	.40	3.83	27.66	SR151A151JAR
	C0G (NPO)	15	100	150pF	±10	478-3167-ND	.17	1.26	9.00	SR151A151KAR
	C0G (NPO)	15	100	220pF	±5	478-4847-ND	.15	1.14	8.13	SR151A221JAR
	C0G (NPO)	15	100	220pF	±10	478-3168-ND	.19	1.37	9.75	SR151A221KAR
	C0G (NPO)	15	100	270pF	±5	478-5211-ND	.42	3.99	28.80	SR151A271JAR
	C0G (NPO)	15	100	330pF	±5	478-5212-ND	.17	1.58	11.38	SR151A331JAR
	C0G (NPO)	15	100	330pF	±10	478-3169-ND	.19	1.44	10.25	SR151A331KAR
	C0G (NPO)	15	100	390pF	±5	478-5214-ND	.41	3.90	28.15	SR151A391JAR
	C0G (NPO)	15	100	470pF	±5	478-4851-ND	.19	1.37	9.75	SR151A471JAR
	C0G (NPO)	15	100	470pF	±10	478-3170-ND	.20	1.51	10.75	SR151A471KAR
	C0G (NPO)	15	100	680pF	±10	478-3171-ND	.22	1.61	11.50	SR151A681KAR
	C0G (NPO)	20	100	1000pF	±5	478-4854-ND	.29	2.16	15.43	SR201A102JAR
	C0G (NPO)	20	100	2200pF	±5	478-5219-ND	1.04	9.83	71.01	SR201A222JAR
	C0G (NPO)	30	100	10000pF	±5	478-4867-ND	1.26	9.28	66.25	SR301A103JAR
	C0G (NPO)	30	50	10000pF	±5	478-5744-ND✔	1.43	10.50	75.00	SR305A103JAR
2	C0G (NPO)	21	100	22pF	±5	478-4860-ND	.29	2.10	15.00	SR211A220JAR
	C0G (NPO)	21	100	100pF	±5	478-5734-ND✔	2.85	21.00	150.00	SR211A101JAR
	C0G (NPO)	21	100	220pF	±5	478-5735-ND✔	.38	2.80	20.00	SR211A221JAR
	C0G (NPO)	21	100	2200pF	±5	478-6006-ND✔	.71	5.25	37.50	SR211A222JAR
	C0G (NPO)	21	100	33pF	±5	478-6007-ND✔	.38	2.80	20.00	SR211A330JAR
	C0G (NPO)	21	100	470pF	±5	478-5736-ND✔	.43	3.15	22.50	SR211A471JAR
	C0G (NPO)	21	100	1000pF	±5	478-4859-ND	.26	1.95	13.93	SR211A102JAR
1	X7R	15	100	1000pF	±10	478-3172-ND	.19	1.44	10.25	SR151C102KAR
	X7R	15	100	1500pF	±10	478-3173-ND	.19	1.44	10.25	SR151C152KAR
	X7R	15	100	2200pF	±10	478-3174-ND	.24	1.79	12.75	SR151C222KAR
	X7R	15	100	3300pF	±10	478-3175-ND	.24	1.79	12.75	SR151C332KAR
	X7R	15	100	4700pF	±10	478-3176-ND	.27	1.96	14.00	SR151C472KAR
	X7R	15	100	6800pF	±10	478-3177-ND	.27	1.96	14.00	SR151C682KAR
	X7R	15	100	10000pF	±10	478-3178-ND	.24	1.75	12.50	SR151C103KAR
	X7R	15	50	1000pF	±10	478-5217-ND	.29	2.75	19.83	SR155C102KAR
	X7R	15	50	10000pF	±10	478-4852-ND	.19	1.40	9.98	SR155C103KAR
	X7R	20	100	22000pF	±10	478-5220-ND	.40	3.83	27.66	SR201C223KAR
	X7R	20	100	33000pF	±10	478-4856-ND	.40	2.98	21.28	SR201C333KAR
	X7R	20	100	47000pF	±10	478-5221-ND	.43	4.09	29.54	SR201C473KAR
	X7R	20	100	.10µF	±10	478-4855-ND	.19	1.42	10.13	SR201C104KAR
	X7R	20	50	47000pF	±10	478-6005-ND✔	.44	3.22	23.00	SR205C473KAR

Fig.	Dielectric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1	X7R	20	50	68000pF	±10	478-3186-ND	.21	1.58	11.25	SR205C683KAR
	X7R	20	50	.10µF	±10	478-3187-ND	.24	1.79	12.75	SR205C104KAR
	X7R	20	50	.10µF	±20	478-5732-ND✔	2.38	17.50	125.00	SR205C104MAR
	X7R	30	100	.22µF	±10	478-6013-ND✔	1.19	8.75	62.50	SR301C224KAR
	X7R	30	100	.47µF	±10	478-5742-ND✔	1.35	9.98	71.25	SR301C474KAR
	X7R	30	50	.33µF	±10	478-5745-ND✔	1.00	7.33	52.38	SR305C334KAR
	X7R	30	50	.47µF	±10	478-3189-ND	1.01	7.46	53.25	SR305C474KAR
	X7R	30	50	1.0µF	±10	478-4657-ND	.86	5.75	41.40	SR305C105KAR
	X7R	30	500	.10µF	±10	478-6014-ND✔	2.38	17.50	125.00	SR307C104KAR
	X7R	40	100	1.0µF	±10	478-4869-ND	3.97	29.22	208.73	SR401C105KAR
2	X7R	21	100	1000pF	±10	478-4861-ND	.16	1.16	8.25	SR211C102KAR
	X7R	21	100	10000pF	±10	478-3179-ND	.21	1.54	11.00	SR211C103KAR
	X7R	21	100	15000pF	±10	478-3180-ND	.21	1.58	11.25	SR211C153KAR
	X7R	21	100	22000pF	±10	478-3181-ND	.24	1.79	12.75	SR211C223KAR
	X7R	21	100	33000pF	±10	478-3182-ND	.24	1.79	12.75	SR211C333KAR
	X7R	21	100	47000pF	±10	478-3183-ND	.24	1.79	12.75	SR211C473KAR
	X7R	21	100	68000pF	±10	478-3184-ND	.24	1.79	12.75	SR211C683KAR
	X7R	21	100	.10µF	±10	478-3185-ND	.24	1.79	12.75	SR211C104KAR
	X7R	21	100	1.0µF	±10	478-4473-ND	1.83	13.48	96.25	SR211C105KAR
	X7R	21	50	10000pF	±5	478-5739-ND✔	.29	2.10	15.00	SR215C103JAR
	X7R	21	50	10000pF	±10	478-4862-ND	.15	1.13	8.08	SR215C103KAR
	X7R	21	50	.10µF	±5	478-6008-ND✔	.48	3.50	25.00	SR215C104JAR
	X7R	21	50	.10µF	±10	478-3188-ND	.24	1.79	12.75	SR215C104KAR
	X7R	21	50	1.0µF	±20	478-4472-ND	1.69	12.42	88.70	SR215C105MAR
	X7R	21	50	22000pF	±10	478-6009-ND✔	.24	1.75	12.50	SR215C223KAR
	X7R	21	50	.22µF	±10	478-4863-ND	.39	2.90	20.70	SR215C224KAR
	X7R	21	50	47000pF	±10	478-5740-ND✔	.23	1.68	12.00	SR215C473KAR
4	X7R	27	50	.10µF	±10	478-6011-ND✔	.38	2.80	20.00	SR275C104KAR
1	Z5U	15	50	10000pF	±20	478-4853-ND	.27	2.01	14.38	SR155E103MAR
	Z5U	15	50	.10µF	±20	478-5218-ND	.30	2.85	20.57	SR155E104MAR
	Z5U	20	50	.10µF	±20	478-3192-ND	.16	1.19	8.50	SR205E104MAR
	Z5U	20	50	.22µF	±20	478-4857-ND	.40	2.94	21.00	SR205E224MAR
	Z5U	20	50	.33µF	±20	478-5733-ND✔	.38	2.80	20.00	SR205E334MAR
	Z5U	20	50	.47µF	±20	478-4858-ND	.36	2.63	18.75	SR205E474MAR
	Z5U	20	100	.10µF	±20	478-5222-ND	.38	3.57	25.81	SR201E104MAR
	Z5U	30	100	.47µF	±20	478-5743-ND✔	.57	4.20	30.00	SR301E474MAR
	Z5U	30	50	2.2µF	±20	478-5746-ND✔	2.81	20.71	147.93	SR305E225MAR
	Z5U	30	50	1.0µF	±20	478-3195-ND	.59	4.34	31.00	SR305E105MAR
	Z5U	30	100	1.0µF	±20	478-4868-ND	.99	7.32	52.25	SR301E105MAR
	Z5U	50	50	4.7µF	±20	478-5747-ND✔	6.18	45.50	325.00	SR505E475MAR
2	Z5U	21	100	10000pF	±20	478-5737-ND✔	.24	1.75	12.50	SR211E103MAR
	Z5U	21	100	.10µF	±20	478-5738-ND✔	.24	1.74	12.40	SR211E104MAR
	Z5U	21	100	.10µF	-20/+80	478-2474-ND	.27	1.96	14.00	SR211E104ZAA
	Z5U	21	100	.10µF	-20/+80	478-3190-ND	.27	1.96	14.00	SR211E104ZAR
	Z5U	21	100	.22µF	-20/+80	478-2475-ND	.35	2.56	18.25	SR211E224ZAA
	Z5U	21	100	.22µF	-20/+80	478-3191-ND	.35	2.56	18.25	SR211E224ZAR
	Z5U	21	50	.10µF	±20	478-3193-ND	.15	1.12	8.00	SR215E104MAR
	Z5U	21	50	.22µF	±20	478-4865-ND	.28	2.04	14.58	SR215E224MAR
	Z5U	21	50	.33µF	±20	478-3194-ND	.37	2.70	19.25	SR215E334MAR
	Z5U	21	50	.47µF	±20	478-4866-ND	.43	3.15	22.50	SR215E474MAR
	Z5U	21	50	1.0µF	±20	478-4864-ND	.52	3.85	27.53	SR215E105MAR
3	Z5U	29	50	.10µF	±20	478-5741-ND✔	.13	.97	6.95	SR295E104MAR
4	Z5U	22	50	.10µF	±20	478-6010-ND✔	.24	1.75	12.50	SR225E104MAR
	Z5U	27	50	.10µF	±20	478-6012-ND✔	.24	1.75	12.50	SR275E104MAR

✔ ***NEW!***

SE/SK Series SMPS Radial Leaded Ceramic Capacitors

The SE/SK series capacitors from AVX are conformally coated MLC capacitors for input or output filtering in switch mode power supplies. They are specially processed to handle high currents and are low enough in cost for commercial SMPS applications.

Specifications:

- Operating Temperature: ***C0G and X7R:*** -55°C ~ 125°C; ***Z5U:*** 10°C ~ 85°C
- Lead Length: 25.4mm minimum

Size Code	Dimensions – mm L Max.	H Max.	LS Nom.	LD Nom.
SE01/SK01	5.08	5.08	5.08	0.508
SE03/SK03	7.62	7.62	5.08	0.508
SE04/SK04	10.2	10.2	5.08	0.508
SK05/SK55/SE05	12.7	12.7	10.2	0.635
SK06	22.1	15.2	20.1	0.813
SK08	27.9	15.2	24.9	0.813
SK09/SK59	17.0	13.7	14.6	0.635
SK10	23.6	18.3	20.3	0.813

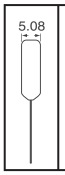

Fig. 1

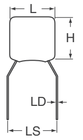

Fig. 2

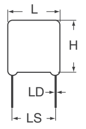

Fig. 3

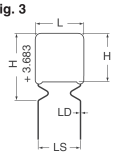

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
1	X7R	SK01	500	10000pF	±10	478-4011-ND	3.47	2.56	1.83	SK017C103KAR
2	C0G	SK04	500	10000pF	±10	478-4020-ND	10.40	7.67	5.48	SK047A103KAR
	X7R	SE03	25	6.8µF	±10	478-5607-ND	11.59	8.54	6.10	SE033C685KAR
	X7R	SE04	25	10µF	±10	478-5608-ND	16.63	12.25	8.75	SE043C106KAR
	X7R	SE05	25	18µF	±10	478-5609-ND	20.90	15.40	11.00	SE053C186KAR
	X7R	SK03	50	.10µF	±10	478-5597-ND	12.16	8.96	6.40	SK035C104KAR
	X7R	SK05	50	.10µF	±20	478-4026-ND	10.78	7.95	5.68	SK055C104MAR
	X7R	SE01	50	1.0µF	±10	478-5610-ND	7.41	5.46	3.90	SE015C105KAR
	X7R	SK04	50	3.3µF	±10	478-4019-ND	10.40	7.67	5.48	SK045C335KAR
	X7R	SE03	50	4.7µF	±10	478-5611-ND	10.45	7.70	5.50	SE035C475KAR
	X7R	SK05	50	5.6µF	±10	478-4027-ND	10.78	7.95	5.68	SK055C565KAR
	X7R	SE04	50	10µF	±10	478-5612-ND	16.15	11.90	8.50	SE045C106KAR
	X7R	SK04	100	2.7µF	±10	478-4016-ND	10.40	7.67	5.48	SK041C275KAR
	X7R	SE04	100	6.8µF	±10	478-5614-ND	20.57	15.16	10.83	SE041C685KAR
	X7R	SE05	100	8.2µF	±10	478-4010-ND	15.44	11.38	8.13	SE051C825KAR
	X7R	SE05	100	10µF	±10	478-5613-ND	19.95	14.70	10.50	SE051C106KAR
	X7R	SK03	200	.22µF	±10	478-4012-ND	5.70	4.20	3.00	SK032C224KAR
	X7R	SK03	200	.56µF	±10	478-4013-ND	5.65	4.17	2.98	SK032C564KAR
	X7R	SK05	200	1.0µF	±10	478-4024-ND	10.78	7.95	5.68	SK052C105KAR

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
2	X7R	SK03	500	.10µF	±10	478-4014-ND	5.65	4.17	2.98	SK037C104KAR
	X7R	SK03	500	.12µF	±10	478-4015-ND	5.80	4.27	3.05	SK037C124KAR
	X7R	SK05	500	.22µF	±10	478-4029-ND	10.78	7.95	5.68	SK057C224KAR
	X7R	SK04	500	.27µF	±10	478-4021-ND	10.40	7.67	5.48	SK047C274KAR
	X7R	SK04	500	.47µF	±10	478-5683-ND✔	22.33	16.45	11.75	SK047C474KAR
	X7R	SK05	500	.47µF	±10	478-4030-ND	10.78	7.95	5.68	SK057C474KAR
	X7R	SK05	500	.47µF	±20	478-4031-ND	10.78	7.95	5.68	SK057C474MAR
	X7R	SK05	500	.68µF	±10	478-5684-ND✔	23.18	17.08	12.20	SK057C684KAR
	X7R	SK08	500	3.9µF	±10	478-5685-ND✔	209.05	154.04	110.03	SK087C395KAR
	X7R	SK09	500	1.2µF	±10	478-5686-ND✔	30.59	22.54	16.10	SK097C125KAR
	X7R	SK10	500	2.2µF	±10	478-5687-ND✔	75.91	55.93	39.95	SK107C225KAR
3	X7R	SK59	500	1.0µF	±10	478-4034-ND	17.91	13.20	9.43	SK597C105KAR
2	Z5U	SK04	25	10µF	-20/+80	478-4018-ND	10.40	7.67	5.48	SK043E106ZAR
	Z5U	SK05	50	10µF	-20/+80	478-4028-ND	10.78	7.95	5.68	SK055E106ZAR
	Z5U	SK04	100	4.7µF	-20/+80	478-4017-ND	10.40	7.67	5.48	SK041E475ZAR
	Z5U	SK06	100	22µF	-20/+80	478-4032-ND	27.17	20.02	14.30	SK061E226ZAR
	Z5U	SK05	100	6.8µF	-20/+80	478-4023-ND	10.78	7.95	5.68	SK051E685ZAR
	Z5U	SK05	200	4.7µF	-20/+80	478-4025-ND	10.78	7.95	5.68	SK052E475ZAR
3	Z5U	SK55	100	6.8µF	-20/+80	478-4033-ND	10.78	7.95	5.68	SK551E685ZAR

✔ ***NEW!***

AVX High Voltage Leaded Ceramic Capacitors

SV Series

High value, low leakage, and small size are difficult parameters to obtain in capacitors for high voltage systems. AVX's SV series lead capacitors meet these performance characteristics. These special design criteria result in significant reduction of partial discharge activity within the dielectric and having, therefore, a major impact on long-term reliability of the product. The SV high voltage radial capacitors are conformally coated with high insulation resistance, high dielectric strength epoxy eliminating the possibility of arc flashover. This series also exhibits low ESR at high frequencies. The same criteria governing the high voltage design carries the added benefits of extremely low ESR in relatively low capacitance and small packages. These capacitors are designed and are ideally suited for applications such as snubbers in high frequency power converters, resonators in SMPS, and high voltage coupling/DC blocking.

Size Code	Dimensions - mm			
	L Max.	H Max.	S Nom.	LD Nom.
SV01	6.35	5.59	4.32	0.64
SV02	8.13	7.11	5.59	0.64
SV03	9.40	7.62	6.99	0.64
SV04	11.4	5.59	7.62	0.64
SV05	11.9	10.2	9.52	0.64
SV06	14.0	7.11	10.16	0.64
SV07	14.5	12.7	12.1	0.64
SV08	17.0	15.2	14.6	0.64
SV09	19.6	18.3	17.1	0.64
SV11	31.8	15.2	27.9	0.64
SV13	7.62	9.14	5.08	0.51
SV14	10.2	11.7	5.08	0.51
SV15	12.7	14.2	10.2	0.64

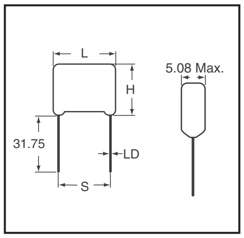

Specifications:

- Operating Temperature Range: -55°C ~ 125°C
- Insulation Resistance: (25°C, @ 500V) 100KMΩ minimum, or 1000 MΩ-µF minimum, whichever is less
- Dissipation Factor: ***C0G:*** 0.15% maximum; ***X7R:*** 2.5% maximum

Dielectric	Size Code	VDC	Capacitance	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
C0G (NP0)	SV01	2,000	33pF	±10	478-4038-ND	3.71	2.73	1.95	SV01GA330KAR
	SV02	3,000	39pF	±10	478-4041-ND	4.04	2.98	2.13	SV02HA390KAR
	SV04	2,000	150pF	±10	478-4043-ND	4.89	3.61	2.58	SV04GA151KAR
	SV04	4,000	82pF	±5	478-4044-ND	4.89	3.61	2.58	SV04JA820JAR
	SV13	630	4700pF	±5	478-5387-ND	8.41	6.20	4.43	SV13CA472JAR
	SV13	630	10000pF	±5	478-5388-ND	8.41	6.20	4.43	SV13CA103JAR
	SV14	1,000	10000pF	±10	478-4055-ND	10.64	7.84	5.60	SV14AA103KAR
X7R	SV01	630	10000pF	±10	478-5619-ND	7.79	5.74	4.10	SV01CC103KAR
	SV01	630	18000pF	±10	478-5618-ND	7.79	5.74	4.10	SV01CC183KAR
	SV01	1,000	470pF	±10	478-4037-ND	3.71	2.73	1.95	SV01AC471KAR
	SV01	1,000	10000pF	±10	478-4035-ND	3.71	2.73	1.95	SV01AC103KAR
	SV01	1,000	10000pF	±20	478-4036-ND	3.71	2.73	1.95	SV01AC103MAR
	SV01	2,000	330pF	±10	478-4039-ND	3.71	2.73	1.95	SV01GC331KAR
	SV02	1,000	4700pF	±10	478-4040-ND	4.04	2.98	2.13	SV02AC472KAR
	SV03	630	.10µF	±10	478-5624-ND	9.03	6.65	4.75	SV03CC104KAR
	SV03	630	.18µF	±10	478-5625-ND	9.03	6.65	4.75	SV03CC184KAR
	SV03	2,000	4700pF	±10	478-5986-ND ***NEW!***	9.03	6.65	4.75	SV03GC472KAR
	SV03	3,000	1000pF	±10	478-5381-ND	6.22	4.59	3.28	SV03HC102KAR
	SV03	3,000	4700pF	±20	478-4042-ND	4.32	3.19	2.28	SV03HC472MAR
	SV05	1,000	.10µF	±10	478-4045-ND	6.13	4.52	3.23	SV05AC104KAR
	SV05	2,500	18000pF	±10	478-4046-ND	6.18	4.55	3.25	SV05WC183KAR
	SV06	1,000	.10µF	±10	478-4047-ND	6.79	5.01	3.58	SV06AC104KAR
	SV06	630	.18µF	±10	478-5620-ND	14.25	10.50	7.50	SV06CC184KAR
	SV07	1,000	.10µF	±10	478-4048-ND	11.50	8.47	6.05	SV07AC104KAR
	SV07	2,000	47000pF	±10	478-4049-ND	11.50	8.47	6.05	SV07GC473KAR

Dielectric	Size Code	VDC	Capacitance	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
X7R	SV08	1,000	.22µF	±10	478-4050-ND	18.29	13.48	9.63	SV08AC224KAR
	SV08	630	1.0µF	±10	478-5621-ND	38.48	28.35	20.25	SV08CC105KAR
	SV09	1,000	.47µF	±10	478-4052-ND	20.05	14.77	10.55	SV09AC474KAR
	SV09	1,000	1.0µF	±10	478-4051-ND	20.05	14.77	10.55	SV09AC105KAR
	SV09	630	1.8µF	±10	478-5622-ND	42.18	31.08	22.20	SV09CC185KAR
	SV11	630	2.2µF	±10	478-5623-ND	100.99	74.41	53.15	SV11CC225KAR
	SV13	630	100pF	±5	478-5382-ND	8.41	6.20	4.43	SV13CC101JAR
	SV13	630	220pF	±5	478-5383-ND	8.41	6.20	4.43	SV13CC221JAR
	SV13	630	470pF	±5	478-5384-ND	8.41	6.20	4.43	SV13CC471JAR
	SV13	630	1000pF	±5	478-5385-ND	8.41	6.20	4.43	SV13CC102JAR
	SV13	630	1000pF	±10	478-5389-ND	8.41	6.20	4.43	SV13CC102KAR
	SV13	630	1500pF	±10	478-5397-ND	8.41	6.20	4.43	SV13CC152KAR
	SV13	630	2200pF	±5	478-5386-ND	8.41	6.20	4.43	SV13CC222JAR
	SV13	630	2200pF	±10	478-5390-ND	8.41	6.20	4.43	SV13CC222KAR
	SV13	630	3300pF	±10	478-5399-ND	8.41	6.20	4.43	SV13CC332KAR
	SV13	630	4700pF	±10	478-5391-ND	8.41	6.20	4.43	SV13CC472KAR
	SV13	630	10000pF	±10	478-5392-ND	8.41	6.20	4.43	SV13CC103KAR
	SV13	630	15000pF	±10	478-5396-ND	8.41	6.20	4.43	SV13CC153KAR
	SV13	630	22000pF	±10	478-5393-ND	8.41	6.20	4.43	SV13CC223KAR
	SV13	630	47000pF	±10	478-5394-ND	8.41	6.20	4.43	SV13CC473KAR
	SV13	630	.10µF	±10	478-5395-ND	8.41	6.20	4.43	SV13CC104KAR
	SV13	630	.22µF	±10	478-5398-ND	8.41	6.20	4.43	SV13CC224KAR
	SV13	1,000	10000pF	±20	478-4054-ND	10.64	7.84	5.60	SV13AC103MAR
	SV14	630	3300pF	±10	478-5400-ND	15.39	11.34	8.10	SV14CC332KAR
	SV15	2,000	33000pF	±10	478-4056-ND	11.02	8.12	5.80	SV15GC333KAR

NEW! SMPS Ceramic Radial Capacitors

SXP style, encapsulated radial leaded MLC capacitors are ideally suited for high temperature applications up to 200°C. This product is intended for downhole oil exploration, including logging while drilling, geophysical probes, as well as space, aerospace and hybrid automotive applications. This product supplements the SMX family of capacitors and offers mechanical protection to the ceramic element in extreme harsh environment. The high temperature solder utilized in the construction of SXP style parts assures reliable operation in high temperature and rugged environments. The SXP style capacitors are ideally suited for applications as DC filters in high power, high frequency motor drives, high pulsed-current circuitry, as well as standard electronic equipment designed for high temperature applications.

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 125°C • Insulation Resistance: (25°C, @ 500V) 100KMΩ minimum, or 1000 MΩ-µF minimum, whichever is less • Dissipation Factor: 2.5% maximum

Size Code	Dimensions - mm				
	L Max.	H Max.	T Max.	LS Nom.	LD Nom.
SXP1	7.62	7.62	3.81	6.35	0.64
SXP2	10.2	10.2	5.08	8.38	0.64
SXP3	12.7	12.7	5.08	10.2	0.64
SXP4	22.4	16.3	5.84	19.8	0.64

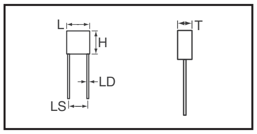

Dielectric	Size Code	VDC	Capacitance (µF)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
X7R	SXP1	100	.68	478-6174-ND	60.42	44.52	31.80	SXP11C684KAA
	SXP1	500	.12	478-6175-ND	61.89	45.61	32.58	SXP17C124KAA
	SXP2	100	1.2	478-6176-ND	79.75	58.77	41.98	SXP21C125KAA

Dielectric	Size Code	VDC	Capacitance (µF)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
X7R	SXP2	500	.22	478-6177-ND	82.60	60.87	43.48	SXP27C224KAA
	SXP3	100	1.8	478-6178-ND	89.73	66.12	47.23	SXP31C185KAA
	SXP3	50	3.3	478-6182-ND	88.49	65.21	46.58	SXP35C335KAA
	SXP3	500	.33	478-6179-ND	91.20	67.20	48.00	SXP37C334KAA
	SXP4	100	5.6	478-6180-ND	136.28	100.42	71.73	SXP41C565KAA
	SXP4	500	1.0	478-6181-ND	140.32	103.39	73.85	SXP47C105KAA

VISHAY BCcomponents Safety Standard Approved Ceramic Disc Capacitors — EMI/RFI Y1-VY1 and Y2-VY2 Series

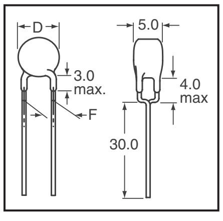

Specifications: • Dissipation Factor: 2.5% Maximum • Category Temperature Range: -40°C ~ 125°C • Climatic Category: 40/125/21 according to EN60068-1 • Coating: According to UL94V-0; Epoxy resin, isolating, flame retardant • WEEE/RoHS: Components in accordance with EU Directive 2002/95/EC • Insulation Resistance: 10,000MΩ Minimum

Approvals: • ***Y1-VY1 Series:*** ENEC VDE (DE1-32019), UL 1414 file E183844 and CSA 22.2 • ***Y2-VY2 Series:*** ENEC-VDE (DE1-30691), UL 1414 file E183844 and CSA 22.2

Features: • Complying with "EN 132 400" and "IEC 60384-14, 2nd edition, including amendment 1.1995" • High reliability • Vertical (in-line) kinked leads

Applications: • Across-the-line • Line by-pass • Antenna coupling • X1, Y1 according to IEC 60384-14.2 for Y1-VY1 Series only

Rated Voltage: • ***Y1-VY1 Series:*** IEC 60384-14.2; (X1): 760VAC, 50Hz; (Y1): 500VAC, 50Hz; 250VAC, 50/60Hz, UL 1414 and CSA22.2; • ***Y2-VY2 Series:*** IEC 60384-14.2; (X1): 440VAC, 50Hz; (Y2): 300VAC, 50Hz;

Capacitance	Cap. Tol. (%)	Temperature Coefficient	Dimensions - mm øD max.	F	Digi-Key Part No.	Pricing 1	10	50	Vishay Part No.
Y1-VY1 Series									
10pF	±10	U2J	8.0	10.0	BC2362-ND	.29	1.96	6.52	VY1100K31U2JQ63V0
15pF	±10	U2J	8.0	10.0	BC2363-ND	.32	2.21	7.36	VY1150K31U2JQ63V0
22pF	±10	U2J	8.0	10.0	BC2364-ND	.32	2.21	7.36	VY1220K31U2JQ63V0
33pF	±10	Y5S	8.0	10.0	BC2365-ND	.33	2.27	7.56	VY1330K31Y5SQ63V0
47pF	±10	Y5S	8.0	10.0	BC2366-ND	.33	2.27	7.56	VY1470K31Y5SQ63V0
68pF	±10	Y5S	8.0	10.0	BC2367-ND	.33	2.27	7.56	VY1680K31Y5SQ63V0
100pF	±10	Y5S	8.0	10.0	BC2368-ND	.33	2.27	7.56	VY1101K31Y5SQ63V0
150pF	±10	Y5S	8.0	10.0	BC2369-ND	.33	2.27	7.56	VY1151K31Y5SQ63V0
220pF	±10	Y5S	8.0	10.0	BC2370-ND	.33	2.27	7.56	VY1221K31Y5SQ63V0
330pF	±10	Y5S	8.0	10.0	BC2371-ND	.33	2.27	7.56	VY1331K31Y5SQ63V0
470pF	±20	Y5U	8.0	10.0	BC2372-ND	.32	2.17	7.24	VY1471M31Y5UQ63V0
680pF	±20	Y5U	8.0	10.0	BC2373-ND	.32	2.17	7.24	VY1681M31Y5UQ63V0
1000pF	±20	Y5U	9.0	10.0	BC2374-ND	.33	2.29	8.02	VY1102M35Y5UQ63V0
1500pF	±20	Y5U	10.5	10.0	BC2375-ND	.50	3.49	12.22	VY1152M41Y5UQ63V0
2200pF	±20	Y5U	12.0	10.0	BC2376-ND	.50	3.49	12.22	VY1222M47Y5UQ63V0
3300pF	±20	Y5U	15.0	10.0	BC2377-ND	.65	4.60	17.38	VY1332M59Y5UQ63V0
3900pF	±20	Y5U	15.5	10.0	BC2378-ND	.65	4.60	17.38	VY1392M61Y5UQ63V0
4700pF	±20	Y5U	16.0	10.0	BC2379-ND	.70	5.15	20.61	VY1472M63Y5UQ63V0

Capacitance	Cap. Tol. (%)	Temperature Coefficient	Dimensions - mm øD max.	F	Digi-Key Part No.	Pricing 1	10	50	Vishay Part No.
Y2-VY2 Series									
10pF	±10	U2J	7.5	7.5	BC2342-ND	.28	1.89	6.30	VY2100K29U2JS63V7
15pF	±10	U2J	7.5	7.5	BC2343-ND	.28	1.89	6.30	VY2150K29U2JS63V7
22pF	±10	U2J	7.5	7.5	BC2344-ND	.28	1.89	6.30	VY2220K29U2JS63V7
33pF	±10	U2J	7.5	7.5	BC2345-ND	.28	1.89	6.30	VY2330K29U2JS63V7
47pF	±10	U2J	7.5	7.5	BC2346-ND	.28	1.89	6.30	VY2470K29U2JS63V7
68pF	±10	Y5S	7.5	7.5	BC2347-ND	.28	1.89	6.30	VY2680K29Y5SS63V7
100pF	±10	Y5S	7.5	7.5	BC2348-ND	.28	1.89	6.30	VY2101K29Y5SS63V7
150pF	±10	Y5S	7.5	7.5	BC2349-ND	.30	2.03	6.76	VY2151K29Y5SS63V7
220pF	±10	Y5S	7.5	7.5	BC2350-ND	.30	2.03	6.76	VY2221K29Y5SS63V7
330pF	±10	Y5S	7.5	7.5	BC2351-ND	.30	2.03	6.76	VY2331K29Y5SS63V7
470pF	±10	Y5S	7.5	7.5	BC2352-ND	.30	2.03	6.76	VY2471K29Y5SS63V7
680pF	±20	Y5U	7.5	7.5	BC2353-ND	.30	2.03	6.76	VY2681M29Y5US63V7
1000pF	±20	Y5U	7.5	7.5	BC2354-ND	.30	2.03	6.76	VY2102M29Y5US63V7
1500pF	±20	Y5U	8.0	7.5	BC2355-ND	.30	2.03	6.76	VY2152M31Y5US63V7
2200pF	±20	Y5U	9.0	7.5	BC2356-ND	.32	2.16	7.20	VY2222M35Y5US63V7
3300pF	±20	Y5U	10.5	7.5	BC2357-ND	.29	2.04	7.12	VY2332M41Y5US63V7
3900pF	±20	Y5U	11.0	7.5	BC2358-ND	.40	2.79	9.77	VY2392M43Y5US63V7
4700pF	±20	Y5U	12.5	7.5	BC2359-ND	.40	2.79	9.77	VY2472M49Y5US63V7
6800pF	±20	Y5U	14.5	7.5	BC2360-ND	.43	3.05	11.53	VY2682M59Y5US63V7
0.01µF	±20	Y5U	16.0	7.5	BC2361-ND	.43	3.05	11.53	VY2103M63Y5US63V7

VISHAY BCcomponents

Ceramic Disc Capacitors

RoHS COMPLIANT

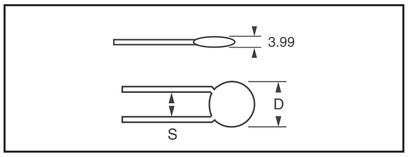

Specifications:
C0G: • Capacitance Temperature Coefficient: 30PPM/°C • Operating Temperature Range: -25°C ~ 85°C • Q Factor: C ≥ 30pF: Q ≥ 1000, C < 30pF: Q ≥ 400 +20°C • Insulation Resistance: 10,000MΩ

Y5P: • Capacitance Temperature Coefficient: ±10% • Operating Temperature Range: -30°C ~ 85°C • Dissipation Factor: 2.5% maximum • Insulation Resistance: 10,000MΩ minimum

Tolerance	Dimensions (mm) D	Dimensions (mm) S	Capacitance	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Pricing 100	Vishay Part No.
Type C0G, 100V									
±0.5	5.00	6.35	10pF	1426PH-ND	.47	3.29	11.50	19.71	D100D20C0GH63L6R
5%	5.00	6.35	15pF	1427PH-ND	.29	1.96	6.52	11.08	D150J20C0GH63L6R
5%	5.00	6.35	18pF	1428PH-ND	.29	1.96	6.52	11.08	D180J20C0GH63L6R
5%	5.00	6.35	22pF	1429PH-ND	.29	1.96	6.52	11.08	D220J20C0GH63L6R
5%	5.00	6.35	27pF	1430PH-ND	.40	2.78	9.71	16.65	D270J20C0GH63L6R
5%	5.00	6.35	33pF	1431PH-ND	.40	2.78	9.71	16.65	D330J20C0GH63L6R
5%	7.37	6.35	100pF	1435PH-ND	.61	4.33	16.37	28.51	D101J29C0GH63L6R
Type C0G, 500V									
5%	6.50	6.35	22pF	1440PH-ND	.41	2.88	10.90	18.98	D220J25C0GL63L6R
Type Y5P, 100V									
10%	5.00	6.35	100pF	1441PH-ND	.31	2.15	7.18	12.21	D101K20Y5PH63L6R

Tolerance	Dimensions (mm) D	Dimensions (mm) S	Capacitance	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Pricing 100	Vishay Part No.
10%	5.00	6.35	220pF	1442PH-ND	.31	2.15	7.18	12.21	D221K20Y5PH63L6R
10%	5.00	6.35	470pF	1444PH-ND	.31	2.15	7.18	12.21	D471K20Y5PH63L6R
10%	5.00	6.35	1000pF	1445PH-ND	.31	2.15	7.18	12.21	D102K20Y5PH63L6R
10%	6.50	6.35	2200pF	1446PH-ND	.31	2.15	7.18	12.21	D222K25Y5PH63L6R
10%	8.83	6.35	4700pF	1449PH-ND	.32	2.25	7.86	13.47	D472K33Y5PH63L6R
Type Y5P, 500V									
10%	5.00	6.35	220pF	1453PH-ND	.42	2.91	10.17	17.43	D221K20Y5PL63L6R
10%	5.00	6.35	470pF	1456PH-ND	.42	2.91	10.17	17.43	D471K20Y5PL63L6R
10%	6.50	6.35	1000pF	1457PH-ND	.42	2.91	10.17	17.43	D102K25Y5PL63L6R
10%	9.91	9.52	2200pF	1458PH-ND	.33	2.28	7.98	13.68	D222K33Y5PL63L0R
10%	17.53	9.52	0.01µF	1460PH-ND	.50	3.48	12.18	20.88	D103K69Y5PL63L0R

Panasonic

High Voltage Ceramic Disc Capacitors

KBP Characteristics Y5P, 1 to 3 kVDC

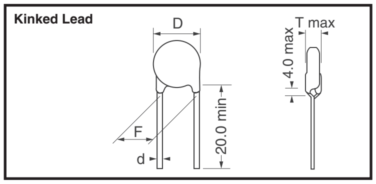

Features: • Wide operating temperature: -25° ~ 125°C • Improved in "Voltage vs. Temperature Rise" through low-loss ceramic dielectric material applied • Flame-retardant insulating coating applied • Easy mounting through Kinked Lead
Recommended Applications: • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits
Specifications: • **Chacteristic:** KBP • **Operating Temperature Range:** -25° ~ 125°C • **Rated Voltage:** 1-3 kVDC • **Dielectric Withstanding Voltage:** Rated voltage 1 to 3 kVDC: 200% of rated voltage for 1 to 5 seconds • **Capacitance:** Within the specified tolerance when measured at 1 kHz ± 20%, 1 to 5 Vrms, and 20°C • **Q or Dissipation Factor:** Tan∂ ≥ 0.025 • **Insulation Resistance:** 10,000MΩ minimum at 500VDC 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/°C (Temperature Range: 20° ~ 85°C) • Y5P: Maximum capacitance change is ±10% over temperature range of -25° ~ 85°C

								Kinked Lead - RoHS Compliant					Straight Lead (Not recommended for New Design)				
				Dimensions (mm)				Digi-Key	Pricing			Panasonic	Digi-Key	Pricing			Panasonic
Voltage	Capacitance	Tolerance	Temp. Char.	D	T	F	d	Part No.	1	50	100	Part No.	Part No.	1	50	100	Part No.
1K	100pF	±10%	Y5P	6.0	4.5	5.00	.6	P9530-ND	.26	6.28	10.76	ECK-A3A101KBP	—	—	—	—	—
	150pF	±10%	Y5P	6.0	4.5	5.00	.6	P9532-ND	.26	6.28	10.76	ECK-A3A151KBP	—	—	—	—	—
	180pF	±10%	Y5P	6.0	4.5	5.00	.6	P9533-ND	.26	6.28	10.76	ECK-A3A181KBP	—	—	—	—	—
	220pF	±10%	Y5P	6.0	4.5	5.00	.6	P9534-ND	.26	6.28	10.76	ECK-A3A221KBP	—	—	—	—	—
	270pF	±10%	Y5P	6.0	4.5	5.00	.6	P9535-ND	.26	6.28	10.76	ECK-A3A271KBP	—	—	—	—	—
	330pF	±10%	Y5P	8.0	4.5	5.00	.6	P9536-ND	.26	6.28	10.76	ECK-A3A331KBP	—	—	—	—	—
	390pF	±20%	Y5P	8.0	4.5	5.00	.6	P9537-ND	.26	6.28	10.76	ECK-A3A391KBP	—	—	—	—	—
	470pF	±10%	Y5P	8.0	4.5	5.00	.6	P9538-ND	.26	6.28	10.76	ECK-A3A471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	4.5	5.00	.6	P9539-ND	.30	7.18	12.30	ECK-A3A561KBP	P4125-ND	.42	11.30	19.68	ECK-D3A561KBP
	680pF	±10%	Y5P	8.0	4.5	5.00	.6	P9540-ND	.30	7.18	12.30	ECK-A3A681KBP	—	—	—	—	—
	1000pF	±10%	Y5P	10.0	4.5	5.00	.6	P9542-ND	.33	8.07	13.84	ECK-A3A102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	10.0	4.5	5.00	.6	P9543-ND	.33	8.07	13.84	ECK-A3A122KBP	—	—	—	—	—
	1800pF	±10%	Y5P	11.0	4.5	5.00	.6	P9545-ND	.42	10.32	17.69	ECK-A3A182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	13.0	4.5	5.00	.6	P9546-ND	.42	11.15	19.42	ECK-A3A222KBP	P4199-ND	.53	14.09	24.54	ECK-D3A222KBP
	2700pF	±10%	Y5P	13.0	4.5	5.00	.6	P9547-ND	.42	11.15	19.42	ECK-A3A272KBP	—	—	—	—	—
	3300pF	±10%	Y5P	13.5	4.5	10.00	.65	P9548-ND	.57	15.32	26.69	ECK-A3A332KBP	—	—	—	—	—
	3900pF	±10%	Y5P	15.5	4.5	10.00	.65	P9549-ND	.57	15.32	26.69	ECK-A3A392KBP	—	—	—	—	—
	4700pF	±10%	Y5P	18.0	4.5	10.00	.65	P9550-ND	.56	16.57	28.41	ECK-A3A472KBP	—	—	—	—	—
	5600pF	±10%	Y5P	18.0	4.5	10.00	.65	P9551-ND	.66	19.45	33.34	ECK-A3A562KBP	—	—	—	—	—
	10000pF	±10%	Y5P	22.0	5.0	10.00	.65	P9552-ND	1.08	37.00	64.04	ECK-A3A103KBP	—	—	—	—	—
2K	100pF	±10%	Y5P	7.0	5.0	7.5	.65	P9553-ND	.40	10.75	18.73	ECK-A3D101KBP	—	—	—	—	—
	120pF	±10%	Y5P	7.0	5.0	7.5	.65	P9554-ND	.40	10.75	18.73	ECK-A3D121KBP	—	—	—	—	—
	150pF	±10%	Y5P	7.0	5.0	7.5	.65	P9555-ND	.40	10.75	18.73	ECK-A3D151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.0	5.0	7.5	.65	P9556-ND	.40	10.75	18.73	ECK-A3D181KBP	—	—	—	—	—
	270pF	±10%	Y5P	7.0	5.0	7.5	.65	P9558-ND	.40	10.75	18.73	ECK-A3D271KBP	—	—	—	—	—
	330pF	±10%	Y5P	7.0	5.0	7.5	.65	P9559-ND	.40	10.75	18.73	ECK-A3D331KBP	—	—	—	—	—
	390pF	±10%	Y5P	7.0	5.0	7.5	.65	P9560-ND	.40	10.75	18.73	ECK-A3D391KBP	P4481A-ND	.54	14.35	25.00	ECK-D3D391KBP
	470pF	±10%	Y5P	7.5	5.0	7.5	.65	P9561-ND	.40	10.75	18.73	ECK-A3D471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	5.0	7.5	.65	P9562-ND	.40	10.75	18.73	ECK-A3D561KBP	—	—	—	—	—
	680pF	±10%	Y5P	9.0	5.0	7.5	.65	P9563-ND	.48	12.73	22.18	ECK-A3D681KBP	—	—	—	—	—
	820pF	±10%	Y5P	9.0	5.0	7.5	.65	P9564-ND	.48	12.73	22.18	ECK-A3D821KBP	P4485A-ND	.61	16.22	28.25	ECK-D3D821KBP
	1000pF	±10%	Y5P	10.0	5.0	7.5	.65	P9565-ND	.63	16.92	29.47	ECK-A3D102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	10.5	5.0	7.5	.65	P9566-ND	.63	16.92	29.47	ECK-A3D122KBP	—	—	—	—	—
	1500pF	±10%	Y5P	12.0	5.0	7.5	.65	P9567-ND	.59	17.47	29.96	ECK-A3D152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	12.5	5.0	7.5	.65	P9568-ND	.59	17.47	29.96	ECK-A3D182KBP	—	—	—	—	—
	2700pF	±10%	Y5P	16.0	5.0	10.0	.65	P9570-ND	.67	19.63	33.65	ECK-A3D272KBP	—	—	—	—	—
	3900pF	±10%	Y5P	18.0	5.0	10.0	.65	P9572-ND	.76	24.01	41.35	ECK-A3D392KBP	—	—	—	—	—
	4700pF	±10%	Y5P	25.0	5.0	10.0	.65	P9573-ND	.97	33.06	57.22	ECK-A3D472KBP	—	—	—	—	—
	5600pF	±10%	Y5P	25.0	5.0	10.0	.65	P9574-ND	.97	33.06	57.22	ECK-A3D562KBP	—	—	—	—	—
3K	100pF	±10%	Y5P	7.5	6.0	7.5	.65	P9575-ND	.42	11.15	19.42	ECK-A3F101KBP	—	—	—	—	—
	120pF	±10%	Y5P	7.5	6.0	7.5	.65	P9576-ND	.42	11.15	19.42	ECK-A3F121KBP	—	—	—	—	—
	150pF	±10%	Y5P	7.5	6.0	7.5	.65	P9577-ND	.42	11.15	19.42	ECK-A3F151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.5	6.0	7.5	.65	P9578-ND	.42	11.15	19.42	ECK-A3F181KBP	—	—	—	—	—
	220pF	±10%	Y5P	7.5	6.0	7.5	.65	P9579-ND	.42	11.15	19.42	ECK-A3F221KBP	P4501A-ND	.55	14.62	25.47	—
	330pF	±10%	Y5P	8.0	6.0	7.5	.65	P9581-ND	.42	11.15	19.42	ECK-A3F331KBP	P4502A-ND	.58	15.55	27.09	ECK-D3F331KBP
	390pF	±10%	Y5P	9.0	6.0	7.5	.65	P9582-ND	.48	12.93	22.53	ECK-A3F391KBP	—	—	—	—	—
	560pF	±10%	Y5P	10.0	6.0	7.5	.65	P9584-ND	.48	12.93	22.53	ECK-A3F561KBP	—	—	—	—	—
	680pF	±10%	Y5P	11.0	6.0	7.5	.65	P9585-ND	.54	16.03	27.48	ECK-A3F681KBP	—	—	—	—	—
	820pF	±10%	Y5P	11.0	6.0	7.5	.65	P9586-ND	.54	16.03	27.48	ECK-A3F821KBP	—	—	—	—	—
	1000pF	±10%	Y5P	12.5	6.0	7.5	.65	P9587-ND	.64	18.90	32.41	ECK-A3F102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	14.5	6.0	10.0	.65	P9588-ND	.70	20.53	35.19	ECK-A3F122KBP	—	—	—	—	—
	1500pF	±10%	Y5P	14.5	6.0	10.0	.65	P9589-ND	.70	20.53	35.19	ECK-A3F152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	14.5	6.0	10.0	.65	P9590-ND	.70	20.53	35.19	ECK-A3F182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	17.0	6.0	10.0	.65	P9591-ND	.76	24.01	41.35	ECK-A3F222KBP	—	—	—	—	—
	2700pF	±10%	Y5P	18.5	6.0	10.0	.65	P9592-ND	.76	24.01	41.35	ECK-A3F272KBP	—	—	—	—	—

Panasonic® Ceramic Disc Capacitors

Class 2, High Dielectric Constant

Features:

- Large capacitance in small size • Minimum coating resin on leads

Applications:

- Coupling and By-pass, where low losses and high stability of capacitance are not so important

Specifications:

- Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 25VDC • Dielectric Withstanding Voltage: 250% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1kHz ±10%, 1 Vrms and 20°C within the specified tolerance - standard capacitance tolerance [Z4V]: +80/-20%
- Dissipation Factor: [Z4V]: D.F. ≤0.05 • Insulation Resistance: C≤0.02 μF: ≥10000MΩ, C>0.02 μF: CR products ≥ 200MΩ (measured at the rated voltage and 1 minute electrification)
- Temperature Characteristics:

$$\text{Cap. Change} = \frac{\triangle C}{C_20} \quad x100\%$$

Where C_20: Capacitance value in pF at the specified reference temperature of 20°C.

△C: Capacitance drifts in pF from the capacitance value at 20°C over the specified temperature range.

Temperature Characteristics	Maximum Capacitance Change	Temperature Range
Z4V	+30/-80%	0°C ~ 70°C

Class 1, Temperature Compensating

Features: • Wide product range for temperature compensation • Liner temperature coefficient of capacitance • High stability of capacitance and close tolerance • Low loss at wide range of frequency

Applications: • Temperature compensation of resonant circuit and filters • Where low losses and high stability of capacitance tolerance and high insulation resistance are required

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 50VDC, 500VDC • Dielectric Withstanding Voltage: 300% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1MHz ±20%, 5 Vrms. max. and 20°C within the specified tolerance - standard capacitance tolerance: ±0.25 pF (1 to 5 pF), ±0.5 pF (1 to 10 pF), ±1 pF (10pF), ±5% (Over 10 pF NP0), ±10% (Over 10 pF GP) • Q Factor: Cap. <30 pF: Q≥400+20XC (c: Rated capacitance in pF), Cap≥30 pF: Q≥1000 • Insulation Resistance: ≥10000 MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Coefficient of Capacitance: Temperature Range: -25°C ~ 85°C, Reference Temperature:

$$20°C,\ \text{T.C.} = \frac{\triangle C}{C_20 \times \triangle T}$$

Where: C_20: Capacitance value in pF at the specified reference temperature of 20°C. △C: Capacitance drifts in pF from the capacitance value at 20°C. △T: The specified temperature range to be measured in °C.

Capacitance (pF)	Rated temperature Coefficient (ppm/°C)	
	NP0	GP
1 to 2	±250	+350 to -1000
3	±120	
4 and above	±60	

Voltage	Capacitance	Tolerance	Temp Characteristics	Dimensions (mm) Dia-meter	Thick-ness	Lead Space	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
Class 2 High Dielectric Constant											
25	. 047μF	+80%-20%	Z4V	8.5	3.5	6.35	P4307-ND	.22	4.98	8.46	ECK-F1E473ZVE
Class 1 Temperature Compensating											
50	1000pF	±5%	GP	10.5	3.5	5.0	P4036A-ND	.29	7.05	12.08	ECC-F1H102J
500	47pF	±5%	NP0	8.5	3.5	5.0	P4408A-ND	.38	10.23	17.83	ECC-D2H470JC5
	82pF	±5%	NP0	13.0	3.5	9.5	P4411-ND	.42	11.31	19.71	ECC-D2H820JCE

Panasonic® Multilayer Ceramic Chip Capacitor Arrays

ECJ-T and ECJ-R Series

Digi-Reel®

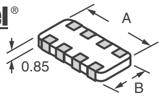

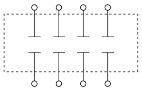

Features:
• Four capacitors built in type in the miniature size of 0805 and 1206 • Improvement of placement time on mounting machines • Low self-inductance and excellent frequency characteristics **Recommended Applications:** • Input/Output circuit computer's mother board - serial, video and parallel ports

Size Code	Type	WV DC	Capacitance	Dimensions (mm) A	B	Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	50	100	500	1,000	Digi-Key Part No.	Tape and Reel Pricing 4,000	Panasonic Part No.
0805	NP0	50	10pF	2.0	1.25	±1pF	P11999CT-ND◆	.54	15.38	25.64	82.04	128.19	P11999TR-ND◆	87.00/M	ECJ-TVC1H100F
		50	22pF	2.0	1.25	±10%	P12001CT-ND◆	.39	10.20	16.18	46.44	73.18	—	—	ECJ-TVC1H220K
		50	47pF	2.0	1.25	±10%	P12003CT-ND◆	.39	10.20	16.18	46.44	73.18	P12003TR-ND◆	52.00/M	ECJ-TVC1H470K
		50	100pF	2.0	1.25	±10%	P12000CT-ND◆	.39	10.20	16.18	46.44	73.18	P12000TR-ND◆	52.00/M	ECJ-TVC1H101K
		50	220pF	2.0	1.25	±10%	P12002CT-ND	.39	10.20	16.18	46.44	73.18	—	—	ECJ-TVC1H221K
	X7R	50	470pF	2.0	1.25	±20%	P11998CT-ND	.39	10.20	16.18	46.44	73.18	—	—	ECJ-TVB1H471M
		50	1000pF	2.0	1.25	±20%	P11996CT-ND◆	.39	10.20	16.18	46.44	73.18	—	—	ECJ-TVB1H102M
		50	2200pF	2.0	1.25	±20%	P11997CT-ND◆	.39	10.20	16.18	46.44	73.18	P11997TR-ND◆	52.00/M	ECJ-TVB1H222M
		25	4700pF	2.0	1.25	±20%	P11995CT-ND	.50	14.34	23.90	76.48	119.50	P11995TR-ND	94.93/M	ECJ-TVB1E472M
		16	.01μF	2.0	1.25	±20%	P11994CT-ND◆	.46	11.91	18.89	54.21	85.42	P11994TR-ND◆	61.00/M	ECJ-TVB1C103M
	X5R	6.3	1μF	2.0	1.25	±20%	P11985CT-ND◆	.58	16.64	27.73	88.75	138.67	—	—	ECJ-TVB0J105M
1206	NP0	50	10pF	3.2	1.6	±1pF	P10580CT-ND◆	.40	11.29	18.81	60.21	94.07	—	—	ECJ-RVC1H100F
		50	12pF	3.2	1.6	±10%	P10581CT-ND	.68	20.45	35.78	127.80	204.48	P10581TR-ND	149.04/M	ECJ-RVC1H120K
		50	15pF	3.2	1.6	±10%	P10582CT-ND	.43	11.24	17.83	51.17	80.63	—	—	ECJ-RVC1H150K
		50	18pF	3.2	1.6	±10%	P10583CT-ND	.68	20.45	35.78	127.80	204.48	P10583TR-ND	149.04/M	ECJ-RVC1H180K
		50	22pF	3.2	1.6	±10%	P10584CT-ND◆	.43	11.24	17.83	51.17	80.63	P10584TR-ND◆	57.00/M	ECJ-RVC1H220K
		50	27pF	3.2	1.6	±10%	P10585CT-ND◆	.82	24.74	43.29	154.61	247.37	P10585TR-ND◆	155.00/M	ECJ-RVC1H270K
		50	39pF	3.2	1.6	±10%	P10587CT-ND	.82	24.74	43.29	154.61	247.37	P10587TR-ND	180.30/M	ECJ-RVC1H390K
		50	47pF	3.2	1.6	±10%	P10588CT-ND◆	.43	11.24	17.83	51.17	80.63	—	—	ECJ-RVC1H470K
		50	56pF	3.2	1.6	±10%	P10589CT-ND	.84	25.27	44.23	157.95	252.72	—	—	ECJ-RVC1H560K
		50	68pF	3.2	1.6	±10%	P10590CT-ND	.43	11.24	17.83	51.17	80.63	P10590TR-ND	67.14/M	ECJ-RVC1H680K
		50	82pF	3.2	1.6	±10%	P10591CT-ND	.84	25.27	44.23	157.95	252.72	P10591TR-ND	158.00/M	ECJ-RVC1H820K
		50	100pF	3.2	1.6	±10%	P10592CT-ND◆	.43	11.24	17.83	51.17	80.63	P10592TR-ND◆	57.00/M	ECJ-RVC1H101K
		50	120pF	3.2	1.6	±10%	P10593CT-ND	.86	25.83	45.20	161.42	258.28	P10593TR-ND	188.25/M	ECJ-RVC1H121K
		50	150pF	3.2	1.6	±10%	P10594CT-ND	.43	11.24	17.83	51.17	80.63	P10594TR-ND	67.14/M	ECJ-RVC1H151K
		50	180pF	3.2	1.6	±10%	P10595CT-ND	.88	26.36	46.13	164.76	263.61	P10595TR-ND	192.14/M	ECJ-RVC1H181K
		50	270pF	3.2	1.6	±10%	P10597CT-ND	.88	26.36	46.13	164.76	263.61	P10597TR-ND	165.00/M	ECJ-RVC1H271K
		50	330pF	3.2	1.6	±10%	P10598CT-ND	.59	17.58	30.77	109.88	175.81	P10598TR-ND	110.00/M	ECJ-RVC1H331K
		50	390pF	3.2	1.6	±10%	P10599CT-ND◆	.88	26.36	46.13	164.76	263.61	P10599TR-ND◆	165.00/M	ECJ-RVC1H391K
		50	470pF	3.2	1.6	±10%	P10600CT-ND◆	.59	17.58	30.77	109.88	175.81	P10600TR-ND◆	110.00/M	ECJ-RVC1H471K
	X7R	50	330pF	3.2	1.6	±20%	P10601CT-ND◆	.67	20.18	35.32	126.13	201.81	P10601TR-ND◆	126.00/M	ECJ-RVB1H331M
		50	470pF	3.2	1.6	±20%	P10602CT-ND	.34	8.83	14.01	40.20	63.34	—	—	ECJ-RVB1H471M
		50	1000pF	3.2	1.6	±20%	P10604CT-ND◆	.34	8.83	14.01	40.20	63.34	—	—	ECJ-RVB1H102M
		50	1500pF	3.2	1.6	±20%	P10605CT-ND	.44	12.45	20.75	66.41	103.77	—	—	ECJ-RVB1H152M
		50	2200pF	3.2	1.6	±20%	P10606CT-ND◆	.34	8.83	14.01	40.20	63.34	—	—	ECJ-RVB1H222M
		50	3300pF	3.2	1.6	±20%	P10607CT-ND	.37	9.53	15.12	43.40	68.38	P10607TR-ND	56.95/M	ECJ-RVB1H332M
		50	4700pF	3.2	1.6	±20%	P10608CT-ND◆	.37	9.53	15.12	43.40	68.38	—	—	ECJ-RVB1H472M
		50	6800pF	3.2	1.6	±20%	P10609CT-ND	.37	9.53	15.12	43.40	68.38	P10609TR-ND	49.00/M	ECJ-RVB1H682M
		16	.1μF	3.2	1.6	±20%	P11148CT-ND◆	.43	11.24	17.83	51.17	80.63	P11148TR-ND◆	57.00/M	ECJ-RVB1C104M
	X5R	6.3	1μF	3.2	1.6	±20%	P12976CT-ND◆	.35	7.74	12.38	30.08	48.65	—	—	ECJ-RVB0J105M
	Y5V	10	1μF	3.2	1.6	+80%/-20%	P11993CT-ND◆	.49	14.09	23.48	75.14	117.40	P11993TR-ND◆	80.00/M	ECJ-RVF1A105Z

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Multilayer Ceramic Chip Capacitors 2-Fold Array Type

Digi-Reel® RoHS COMPLIANT

Features: • 2 Capacitors built in the miniature size of 0504 **Specifications:** • Operating Temperature Range for NPO: -55°C ~ 85°C • Operating Temperature Range for X5R: -55°C ~ 125°C **Recommended Applications:** • Stabilizing of power supply voltage and Noise filtering as Decoupling capacitors for Digital IC power circuit • Bypass capacitors for CPU digital signal

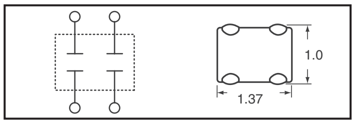

Size Code	Type	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing 1	50	100	500	1,000	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
0504	NPO	50	10pF	±1pF	P12981CT-ND	.47	13.48	22.47	71.89	112.33	P12981TR-ND	76.00/M	ECJ-UVC1H100F
	NPO	50	22pF	±10pF	P12983CT-ND	.47	13.48	22.47	71.89	112.33	P12983TR-ND	76.00/M	ECJ-UVC1H220K
	NPO	50	47pF	±10pF	P12984CT-ND	.47	13.48	22.47	71.89	112.33	P12984TR-ND	76.00/M	ECJ-UVC1H470K
	NPO	50	100pF	±10%	P12982CT-ND	.47	13.48	22.47	71.89	112.33	P12982TR-ND	76.00/M	ECJ-UVC1H101K
	X5R	16	1µF	±20%	P12979CT-ND	.88	26.40	46.21	165.03	264.04	P12979TR-ND	165.00/M	ECJ-UVBPC105M
	X5R	16	1µF	±20%	P11983CT-ND	.88	26.40	46.21	165.03	264.04	—	—	ECJ-UVB1C105M
	X5R	10	.1µF	±20%	P11982CT-ND	.50	14.96	26.18	93.48	149.58	P11982TR-ND	93.00/M	ECJ-UVB1A104M
	X5R	10	1µF	±20%	P11984CT-ND	.87	26.09	45.66	163.08	260.93	P11984TR-ND	163.00/M	ECJ-UVB1A105M
	X5R	10	1µF	±20%	P12978CT-ND	.76	22.67	39.67	141.69	226.71	P12978TR-ND	142.00/M	ECJ-UVBPA105M
	X5R	6.3	1µF	±20%	P11981CT-ND	.62	18.67	32.67	116.69	186.70	P11981TR-ND	117.00/M	ECJ-UVB0J105M
	X5R	6.3	1µF	±20%	P12980CT-ND	.62	18.67	32.67	116.69	186.70	P12980TR-ND	117.00/M	ECJ-UVBPJ105M
	X5R	6.3	2.2µF	±20%	P11986CT-ND	.57	16.31	27.18	86.97	135.89	P11986TR-ND	92.00/M	ECJ-UVBPJ225M

Ceramic Disc Capacitors High Voltage Rated 1 to 6 kVDC, Temperature Characteristics SL/GP — KGE Type

Features: • Wide operating temperature range: -25°C ~ 105°C • Low loss at wide frequency range and stable against high voltage pulses • Temperature stable (Character SL/GP) • Flame-retardant insulating coating applied

Recommended Applications: • Ballast circuit of LCD backlighting inverter • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

Specifications: • **Operating Temperature Range:** -25°C ~ 105°C • **Rated Voltage:** 1kVDC, 2kVDC, 6kVDC • **Dielectric Withstanding Voltage:** 200% of the rated voltage for 1 to 5 seconds • **Capacitance:** Within tolerance, when measured at 1MHz ±20%, 1 to 5 Vrms, and 20°C • **Q Factor:** Capacitance <30pF: Q≥400+20C (C: Rated Capacitance in pF). Capacitance ≥30pF: Q≥1000 at 1 MHz±20%, 1 to 5 Vrms, and 20°C • **Insulation Resistance:** 10,000 MΩ minimum at 500 VDC and 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/°C over the temperature range of 20°C ~ 85°C

F

							Kinked Lead - *RoHS Compliant*					Straight Lead (Not recommended for new design)				
				Dimensions (mm)				Pricing					Pricing			
Voltage	Capacitance	Tolerance	Temperature Characteristics	Diameter	Thickness	Lead Space	Digi-Key Part No.	1	50	100	Panasonic Part No.	Digi-Key Part No.	1	50	100	Panasonic Part No.
1K	12pF	±5%	GP	6.0	5.0	5.0	P9593-ND	.38	10.25	17.85	ECC-A3A120JGE	—	—	—	—	—
	15pF	±5%	GP	6.0	5.0	5.0	P9594-ND	.38	10.25	17.85	ECC-A3A150JGE	—	—	—	—	—
	18pF	±5%	GP	6.0	5.0	5.0	P9595-ND	.38	10.25	17.85	ECC-A3A180JGE	—	—	—	—	—
	27pF	±5%	GP	6.0	5.0	5.0	P9597-ND	.38	10.25	17.85	ECC-A3A270JGE	—	—	—	—	—
	39pF	±5%	GP	6.0	5.0	5.0	P9599-ND	.38	10.25	17.85	ECC-A3A390JGE	—	—	—	—	—
	47pF	±5%	GP	6.0	5.0	5.0	P9614-ND	.38	10.25	17.85	ECC-A3A470JGE	—	—	—	—	—
	56pF	±5%	GP	6.0	5.0	5.0	P9615-ND	.38	10.25	17.85	ECC-A3A560JGE	—	—	—	—	—
	68pF	±5%	GP	6.0	5.0	5.0	P9616-ND	.38	10.25	17.85	ECC-A3A680JGE	—	—	—	—	—
	82pF	±5%	GP	6.0	5.0	5.0	P9617-ND	.38	10.25	17.85	ECC-A3A820JGE	—	—	—	—	—
	100pF	±5%	GP	7.0	5.0	5.0	P9618-ND	.41	10.87	18.94	ECC-A3A101JGE	—	—	—	—	—
	120pF	±5%	GP	7.0	5.0	5.0	P9619-ND	.41	10.87	18.94	ECC-A3A121JGE	P10805-ND	.41	10.90	18.99	ECC-D3A121JGE
	150pF	±5%	GP	8.0	5.0	5.0	P9620-ND	.41	10.87	18.94	ECC-A3A151JGE	—	—	—	—	—
	180pF	±5%	GP	8.0	5.0	5.0	P9621-ND	.41	10.87	18.94	ECC-A3A181JGE	P10807-ND	.44	11.70	20.37	ECC-D3A181JGE
	220pF	±5%	GP	9.0	5.0	5.0	P9622-ND	.43	11.51	20.05	ECC-A3A221JGE	—	—	—	—	—
	270pF	±5%	GP	9.0	5.0	5.0	P9623-ND	.43	11.51	20.05	ECC-A3A271JGE	—	—	—	—	—
	330pF	±5%	GP	11.0	5.0	5.0	P9624-ND	.52	13.80	24.03	ECC-A3A331JGE	—	—	—	—	—
	390pF	±5%	GP	11.0	5.0	5.0	P9625-ND	.52	13.80	24.03	ECC-A3A391JGE	—	—	—	—	—
	470pF	±5%	GP	13.0	5.0	7.5	P9626-ND	.60	16.11	28.06	ECC-A3A471JGE	—	—	—	—	—
2K	12pF	±5%	GP	7.0	5.5	7.5	P9627-ND	.47	12.53	21.83	ECC-A3D120JGE	—	—	—	—	—
	15pF	±5%	GP	7.0	5.5	7.5	P9628-ND	.47	12.53	21.83	ECC-A3D150JGE	P10814-ND	.45	11.96	20.84	ECC-D3D150JGE
	18pF	±5%	GP	7.0	5.5	7.5	P9629-ND	.47	12.53	21.83	ECC-A3D180JGE	P10815-ND	.45	11.96	20.84	ECC-D3D180JGE
	22pF	±5%	GP	7.0	5.5	7.5	P9630-ND	.47	12.53	21.83	ECC-A3D220JGE	—	—	—	—	—
	27pF	±5%	GP	7.0	5.5	7.5	P9631-ND	.47	12.53	21.83	ECC-A3D270JGE	—	—	—	—	—
	33pF	±5%	GP	7.0	5.5	7.5	P9632-ND	.47	12.53	21.83	ECC-A3D330JGE	—	—	—	—	—
	39pF	±5%	GP	7.0	5.5	7.5	P9633-ND	.47	12.53	21.83	ECC-A3D390JGE	—	—	—	—	—
	47pF	±5%	GP	7.0	5.5	7.5	P9634-ND	.47	12.53	21.83	ECC-A3D470JGE	—	—	—	—	—
	56pF	±5%	GP	7.0	5.5	7.5	P9635-ND	.47	12.53	21.83	ECC-A3D560JGE	P10821-ND	.48	12.76	22.23	ECC-D3D560JGE
	68pF	±5%	GP	7.0	5.5	7.5	P9636-ND	.47	12.53	21.83	ECC-A3D680JGE	—	—	—	—	—
	82pF	±5%	GP	7.0	5.5	7.5	P9637-ND	.47	12.53	21.83	ECC-A3D820JGE	P10823-ND	.50	13.29	23.15	ECC-D3D820JGE
	100pF	±5%	GP	8.0	5.5	7.5	P9638-ND	.48	12.96	22.57	ECC-A3D101JGE	—	—	—	—	—
	120pF	±5%	GP	8.0	5.5	7.5	P9639-ND	.48	12.96	22.57	ECC-A3D121JGE	P10825-ND	.52	13.82	24.08	ECC-D3D121JGE
	150pF	±5%	GP	9.0	5.5	7.5	P9640-ND	.56	15.05	26.21	ECC-A3D151JGE	—	—	—	—	—
	180pF	±5%	GP	10.0	5.5	7.5	P9641-ND	.56	16.64	28.53	ECC-A3D181JGE	P10827-ND	.55	14.62	25.47	ECC-D3D181JGE
3K	15pF	±5%	GP	7.0	6.0	7.5	P9644-ND	.48	12.76	22.23	ECC-A3F150JGE	—	—	—	—	ECC-D3F150JGE
	27pF	±5%	GP	7.0	6.0	7.5	P9647-ND	.48	12.76	22.23	ECC-A3F270JGE	—	—	—	—	—
	33pF	±5%	GP	7.0	6.0	7.5	P9648-ND	.48	12.76	22.23	ECC-A3F330JGE	—	—	—	—	—
	39pF	±5%	GP	7.0	6.0	7.5	P9649-ND	.48	12.76	22.23	ECC-A3F390JGE	—	—	—	—	—
	47pF	±5%	GP	7.0	6.0	7.5	P9650-ND	.48	12.76	22.23	ECC-A3F470JGE	P10836-ND	.60	15.95	27.78	ECC-D3F470JGE
	56pF	±5%	GP	8.0	6.0	7.5	P9651-ND	.48	12.76	22.23	ECC-A3F560JGE	P10837-ND	.62	16.48	28.71	ECC-D3F560JGE
	68pF	±5%	GP	8.0	6.0	7.5	P9652-ND	.48	12.76	22.23	ECC-A3F680JGE	—	—	—	—	—
	82pF	±5%	GP	9.0	6.0	7.5	P9653-ND	.59	15.88	27.67	ECC-A3F820JGE	—	—	—	—	—
	100pF	±5%	GP	10.0	6.0	7.5	P9654-ND	.59	15.88	27.67	ECC-A3F101JGE	—	—	—	—	—
	120pF	±5%	GP	10.0	6.0	7.5	P9655-ND	.59	15.88	27.67	ECC-A3F121JGE	—	—	—	—	—
	150pF	±5%	GP	11.0	6.0	7.5	P9656-ND	.59	17.40	29.83	ECC-A3F151JGE	—	—	—	—	—
6K	10pF	±0.5pF	GP	7.0	6.0	7.5	P12181-ND	.65	19.11	32.76	ECC-A3J100DGE	—	—	—	—	—
	12pF	±5	GP	7.0	6.0	7.5	P12182-ND	.65	19.11	32.76	ECC-A3J120JGE	—	—	—	—	—
	15pF	±5	GP	7.0	6.0	7.5	P12183-ND	.65	19.11	32.76	ECC-A3J150JGE	—	—	—	—	—
	18pF	±5	GP	7.0	6.0	7.5	P12184-ND	.65	19.11	32.76	ECC-A3J180JGE	—	—	—	—	—
	22pF	±5	GP	7.0	6.0	7.5	P12185-ND	.65	19.11	32.76	ECC-A3J220JGE	—	—	—	—	—
	39pF	±5	GP	8.5	6.0	7.5	P12188-ND	.69	21.75	37.45	ECC-A3J390JGE	—	—	—	—	—
	47pF	±5	GP	9.0	6.0	7.5	P12189-ND	.73	23.01	39.63	ECC-A3J470JGE	—	—	—	—	—
	150pF	±5	GP	15.0	6.0	7.5	P12191-ND	1.18	40.52	70.13	ECC-A3J151JGE	—	—	—	—	—

HD Series High Voltage Ceramic Disc Capacitors — Y5P Type

Features: • Improved "Voltage vs. Temperature Rise" **Characteristics:** • High reliability using zinc-copper electrode **Application:** • Horizontal resonance circuit of TV and CRT display **Specifications:** • Operating Temperature Range: -25°C ~ 125°C • Dielectric Withstanding Voltage: 200% of rated voltage for 1 to 5 seconds • Capacitance: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C within the specified tolerance (±10%) • Tangent of loss angle: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C at 1.5% or less • Insulation Resistance: 500 ± 50VDC and 1 minute electrification at 10,000MΩ or more • Temperature Characteristics: Y5P ±10% (temperature range: -20°C ~ 85°C)

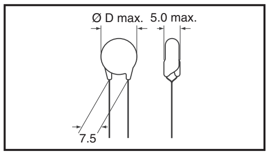

Voltage (kdc)	Capacitance (pF)	Tolerance (%)	Temperature Characteristics	Dimension (mm) øD	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
2	100	±10	Y5P	7.0	P12175-ND◆	.40	10.75	18.73	ECK-AHD101KB
	150	±10	Y5P	7.0	P12176-ND	.40	10.75	18.73	ECK-AHD151KB
	220	±10	Y5P	7.0	P12177-ND◆	.40	10.75	18.73	ECK-AHD221KB
	330	±10	Y5P	7.0	P12178-ND◆	.40	10.75	18.73	ECK-AHD331KB
	470	±10	Y5P	9.0	P12179-ND◆	.40	10.75	18.73	ECK-AHD471KB
	680	±10	Y5P	10.0	P12180-ND◆	.40	10.75	18.73	ECK-AHD681KB

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

High Voltage Ceramic Capacitors (SMD)

FEATURES:

• Resin molded type for reflow solderings • High reliability through disc capacitor element molded construction • Excellent "Voltage vs. Temperature Rise" through low loss ceramic dielectric • Temperature stable (SL/GP) and (B/Y5P)

SPECIFICATIONS:

• Operating Temperature Range: -25°C ~ 105°C • Insulation Resistance: 10,000MΩ minimum at 500VDC and 1 minute electrification • Q or Dissipation Factor (tan δ): *SL/GP Temperature Characteristics:* C < 30pF: Q ≥ 400+20 C (C:cap.pF), C ≥ 30pF: Q ≥ 1000 at 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* D.F. (tan δ) ≤0.025 at 1KHz, 1-5Vrms and 20°C • Temperature Characteristics: *SL/GP* Temperature Coefficient: 350 ~ -1000ppm/°C *B/Y5P* Maximum Capacitance Change: ΔC/C≤±10% (Temperature Range: -25°C ~ 85°C) • Capacitance: *SL/GP Temperature Characteristics:* 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* 1KHz, 1-5Vrms and 20°C • Dielectric Withstanding Voltage: *SL/GP Temperature Characteristics,* (Voltage 4kVDC): 150% of the rated voltage for 1-5 seconds *SL/GP Temperature Characteristics,* (Voltage 2-3KVDC): 200% of the rated voltage for 1-5 seconds. *B/Y5P Temperature Characteristics:* 200% of the rated voltage for 1-5 seconds

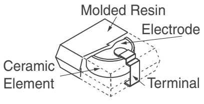

RECOMMENDED APPLICATIONS:

- Output circuit of LCD backlighting inverter
- Snubber circuit of switching power supply
- High voltage circuit

Fig. 1

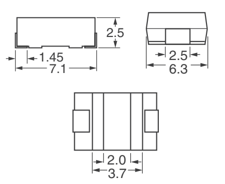

Fig. 2

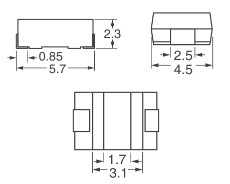

Voltage	Capacitance	Cap. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
Fig. 1											
1kVDC	390pF	±10	B/Y5P	PCC2099CT-ND	1.27	.90	.68	PCC2099TR-ND	2,000	389.00/M	ECK-T3A391KB
	470pF	±10	B/Y5P	PCC2100CT-ND◆	1.27	.90	.68	PCC2100TR-ND◆	2,000	389.00/M	ECK-T3A471KB
2kVDC	68pF	±5	SL/GP	PCC2091CT-ND	1.27	.90	.68	PCC2091TR-ND	2,000	383.00/M	ECC-T3D680JG
	100pF	±10	B/Y5P	PCC2092CT-ND◆	1.27	.90	.68	PCC2092TR-ND◆	2,000	389.00/M	ECK-T3D101KB
	120pF	±10	B/Y5P	PCC2093CT-ND	1.27	.90	.68	PCC2093TR-ND	2,000	389.00/M	ECK-T3D121KB
	150pF	±10	B/Y5P	PCC2094CT-ND◆	1.27	.90	.68	PCC2094TR-ND◆	2,000	389.00/M	ECK-T3D151KB
	180pF	±10	B/Y5P	PCC2095CT-ND	1.27	.90	.68	PCC2095TR-ND◆	2,000	389.00/M	ECK-T3D181KB
	220pF	±10	B/Y5P	PCC2096CT-ND◆	1.27	.90	.68	PCC2096TR-ND◆	2,000	389.00/M	ECK-T3D221KB
	270pF	±10	B/Y5P	PCC2097CT-ND◆	1.27	.90	.68	PCC2097TR-ND◆	2,000	389.00/M	ECK-T3D271KB
	330pF	±10	B/Y5P	PCC2098CT-ND◆	1.27	.90	.68	PCC2098TR-ND◆	2,000	389.00/M	ECK-T3D331KB
3kVDC	10pF	±5	SL/GP	PCC100JCT-ND◆	1.40	.99	.75	PCC100JTR-ND◆	2,000	428.00/M	ECC-T3F100JG
	12pF	±5	SL/GP	PCC120JCT-ND	1.40	.99	.75	PCC120JTR-ND◆	2,000	428.00/M	ECC-T3F120JG
	15pF	±5	SL/GP	PCC150JCT-ND	1.40	.99	.75	PCC150JTR-ND	2,000	428.00/M	ECC-T3F150JG
	18pF	±5	SL/GP	PCC180JCT-ND	1.40	.99	.75	PCC180JTR-ND	2,000	428.00/M	ECC-T3F180JG
	22pF	±5	SL/GP	PCC220JCT-ND	1.40	.99	.75	PCC220JTR-ND	2,000	428.00/M	ECC-T3F220JG
	27pF	±5	SL/GP	PCC270JCT-ND◆	1.40	.99	.75	PCC270JTR-ND◆	2,000	428.00/M	ECC-T3F270JG
	33pF	±5	SL/GP	PCC330JCT-ND	1.40	.99	.75	PCC330JTR-ND	2,000	428.00/M	ECC-T3F330JG
	39pF	±5	SL/GP	PCC390JCT-ND	1.40	.99	.75	PCC390JTR-ND	2,000	428.00/M	ECC-T3F390JG
	47pF	±5	SL/GP	PCC470JCT-ND◆	1.40	.99	.75	PCC470JTR-ND◆	2,000	428.00/M	ECC-T3F470JG
	56pF	±5	SL/GP	PCC560JCT-ND	1.40	.99	.75	PCC560JTR-ND	2,000	428.00/M	ECC-T3F560JG
4kVDC	10pF	±5	SL/GP	PCC2082CT-ND	1.44	1.08	.81	PCC2082TR-ND	2,000	467.00/M	ECC-T3G100JG
	12pF	±5	SL/GP	PCC2083CT-ND	1.44	1.08	.81	PCC2083TR-ND	2,000	467.00/M	ECC-T3G120JG
	15pF	±5	SL/GP	PCC2084CT-ND◆	1.44	1.08	.81	PCC2084TR-ND◆	2,000	467.00/M	ECC-T3G150JG
	18pF	±5	SL/GP	PCC2085CT-ND◆	1.44	1.08	.81	PCC2085TR-ND◆	2,000	467.00/M	ECC-T3G180JG
	22pF	±5	SL/GP	PCC2086CT-ND◆	1.44	1.08	.81	PCC2086TR-ND◆	2,000	467.00/M	ECC-T3G220JG
	27pF	±5	SL/GP	PCC2087CT-ND	1.44	1.08	.81	PCC2087TR-ND	2,000	467.00/M	ECC-T3G270JG
	33pF	±5	SL/GP	PCC2088CT-ND	1.44	1.08	.81	PCC2088TR-ND	2,000	467.00/M	ECC-T3G330JG
	39pF	±5	SL/GP	PCC2089CT-ND	1.44	1.08	.81	PCC2089TR-ND	2,000	467.00/M	ECC-T3G390JG
	47pF	±5	SL/GP	PCC2090CT-ND	1.44	1.08	.81	PCC2090TR-ND	2,000	467.00/M	ECC-T3G470JG
Fig. 2 — RoHS Compliant											
3kVDC	10pF	±0.5	SL/GP	PCC2368CT-ND	1.40	.99	.75	PCC2368TR-ND	3,000	428.00/M	ECC-T3F100DG2
	12pF	±5	SL/GP	PCC2369CT-ND	1.40	.99	.75	PCC2369TR-ND	3,000	428.00/M	ECC-T3F120JG2
	15pF	±5	SL/GP	PCC2370CT-ND	1.40	.99	.75	PCC2370TR-ND	3,000	428.00/M	ECC-T3F150JG2
	18pF	±5	SL/GP	PCC2371CT-ND	1.40	.99	.75	PCC2371TR-ND	3,000	428.00/M	ECC-T3F180JG2
	22pF	±5	SL/GP	PCC2372CT-ND	1.40	.99	.75	PCC2372TR-ND	3,000	428.00/M	ECC-T3F220JG2
	27pF	±5	SL/GP	PCC2373CT-ND	1.40	.99	.75	PCC2373TR-ND	3,000	428.00/M	ECC-T3F270JG2
	33pF	±5	SL/GP	PCC2374CT-ND	1.40	.99	.75	PCC2374TR-ND	3,000	428.00/M	ECC-T3F330JG2
4kVDC	10pF	±0.5	SL/GP	PCC2375CT-ND	1.40	.99	.75	PCC2375TR-ND	3,000	428.00/M	ECC-T3G100DG2
	12pF	±5	SL/GP	PCC2376CT-ND	1.40	.99	.75	PCC2376TR-ND	3,000	428.00/M	ECC-T3G120JG2
	15pF	±5	SL/GP	PCC2377CT-ND	1.40	.99	.75	PCC2377TR-ND	3,000	428.00/M	ECC-T3G150JG2
	18pF	±5	SL/GP	PCC2378CT-ND	1.40	.99	.75	PCC2378TR-ND	3,000	428.00/M	ECC-T3G180JG2
	22pF	±5	SL/GP	PCC2379CT-ND	1.40	.99	.75	PCC2379TR-ND	3,000	428.00/M	ECC-T3G220JG2
	27pF	±5	SL/GP	PCC2380CT-ND	1.40	.99	.75	PCC2380TR-ND	3,000	428.00/M	ECC-T3G270JG2

◆ ***RoHS Compliant***

Ceramic Capacitors for Safety Regulations — Type BC (SMD)

Digi-Reel®

FEATURES: • Resin molded type for reflow soldering surface mountings • High reliability through disc capacitor element molded construction • Related by IEC 384-14 sub-class Y2/X1 and Japan Domestic Safety Regulations • One standard size cover wide capacitance range for 1000pF to 4700pF

APPLICATIONS: • On-board type power module • DC-DC Converter • FAX Modulator-Demodulator

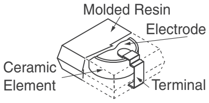

Fig. 1

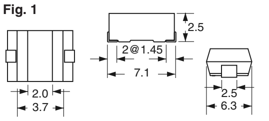

Fig. 2

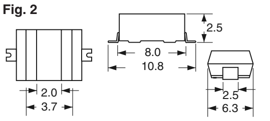

Voltage	Capacitance	Cap. Tol.	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Panasonic Part No.
Fig. 1 – J-Lead										
250VAC	1000pF	±20%	E	P10739CT-ND◆	1.43	1.13	1.02	P10739TR-ND◆	816.00/M	ECK-TBC102ME
	1500pF	±20%	E	P10740CT-ND	1.43	1.13	1.02	P10740TR-ND	816.00/M	ECK-TBC152ME
	2200pF	±20%	E	P10741CT-ND◆	1.43	1.13	1.02	P10741TR-ND◆	816.00/M	ECK-TBC222ME
	3300pF	±20%	F	P10742CT-ND	1.43	1.13	1.02	P10742TR-ND	816.00/M	ECK-TBC332MF
	4700pF	±20%	F	P10743CT-ND◆	1.43	1.13	1.02	P10743TR-ND◆	816.00/M	ECK-TBC472MF
Fig. 2 – Gull-Wing										
250VAC	1500pF	±20%	E	P10745CT-ND	1.19	.94	.86	P10745TR-ND	681.80/M	ECK-TBC152MEM
	3300pF	±20%	F	P10747CT-ND	1.19	.94	.86	—	—	ECK-TBC332MFM

◆ ***RoHS Compliant***

Ceramic Capacitors for Safety Regulations — Type FC (Sub-Class Y2) (SMD)

Digi-Reel®

FEATURES: • Safety Capacitor for reflow soldering process • Approved by SEMKO (IEC60384-14/ EN132400 Sub-class Y2) and UL/CSA (Line-by-pass Capacitors) • High reliability through disc capacitor element with resin molded construction

RECOMMENDED APPLICATIONS: • DC-DC Converter, Power module • MODEM, xDSL • Application EX. (MODEM) **RATINGS:** • **Dimensions:** 5.7L x 4.5W X 2.3T (mm) • **Operating Temperature Range:** -25ºC ~ 100ºC • **Voltage Proof:** 1500VAC, 1 minute

Temp. Char.	Capacitance Change	Temperature Range
SL	+350 ~ -1000ppm/°C	+20°C ~ +85°C
B	±10% Maximum	-20°C ~ +85°C
E	+20, -55% Maximum	-20°C ~ +85°C
F	+30, -80% Maximum	-20°C ~ +85°C
The reference temperature: 20°C		

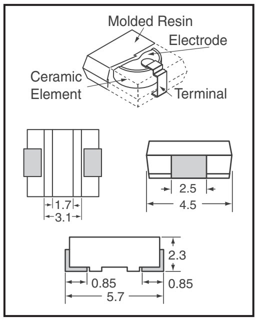

Voltage	Capacitance	Cap. Tol.	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
250VAC	5pF	±0.5pF	SL	P11424CT-ND	1.39	1.10	1.00	P11424TR-ND	796.00/M	ECC-TFC050DG
	10pF	±0.5pF	SL	P11425CT-ND	1.39	1.10	1.00	P11425TR-ND	796.00/M	ECC-TFC100DG
	22pF	±5%	SL	P11426CT-ND	1.39	1.10	1.00	P11426TR-ND	796.00/M	ECC-TFC220JG
	47pF	±10%	B	P11427CT-ND◆	1.43	1.13	1.02	P11427TR-ND◆	816.00/M	ECK-TFC470KB
	100pF	±10%	B	P11428CT-ND	1.43	1.13	1.02	P11428TR-ND	816.00/M	ECK-TFC101KB
	150pF	±10%	B	P11429CT-ND	1.43	1.13	1.02	P11429TR-ND	816.00/M	ECK-TFC151KB
	220pF	±10%	B	P11430CT-ND◆	1.43	1.13	1.02	P11430TR-ND◆	816.00/M	ECK-TFC221KB
	330pF	±10%	B	P11431CT-ND	1.43	1.13	1.02	P11431TR-ND	816.00/M	ECK-TFC331KB
	470pF	±10%	B	P11432CT-ND◆	1.43	1.13	1.02	P11432TR-ND◆	816.00/M	ECK-TFC471KB
	1000pF	±20%	E	P11434CT-ND◆	1.43	1.13	1.02	P11434TR-ND◆	816.00/M	ECK-TFC102ME
	1500pF	±20%	F	P11435CT-ND◆	1.43	1.13	1.02	P11435TR-ND◆	816.00/M	ECK-TFC152MF
	2200pF	±20%	F	P11436CT-ND◆	1.43	1.13	1.02	P11436TR-ND◆	816.00/M	ECK-TFC222MF

◆ ***RoHS Compliant***

Ceramic Disc Capacitors — Type GL

FEATURES:

- Rated: 250VAC
- CSA rating: 125VAC

APPLICATIONS:

- Antenna coupling
- Line-bypass and Across-the-line
- Switching surge killer, etc.

UL 1414 • CSA C22.2 Approved

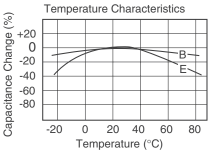

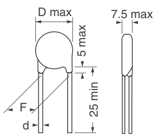

Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions - mm D	d	F	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
250	100pF	±20%	B	8.0	5.5	7.5	P4484-ND	.61	.46	.33	.19	ECK-DGL101MB
	150pF	±20%	B	8.0	5.5	7.5	P4485-ND	.61	.46	.33	.19	ECK-DGL150MB
	680pF	±20%	B	9.0	5.5	7.5	P4489-ND	.65	.48	.34	.20	ECK-DGL681MB
	1000pF	±20%	E	9.0	5.5	7.5	P4490-ND	.52	.39	.28	.16	ECK-DGL102ME

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

Multilayer Ceramic Chip Capacitors

0201, 0402, 0508, 0603, 0612, 0805, 1206 and 1210

FEATURES: • Small in size and wide capacitance range • Superior humidity characteristic and long life due to the monolithic construction • Excellent solderability and resistance to soldering heat due to terminals with three layers of silver nickel and solder • Low self-inductance and excellent frequency characteristic **RECOMMENDED APPLICATIONS: Class 1 (T.C. Type)**: Temperature compensations, tuned circuits and filter circuits, where low loss and high stability of capacitance and high insulation resistance are required. **Class 2 (HI-K type)**: Coupling and By-pass, where low loss and high stability of capacitance are not so important.

NP0 Type - Class 1:
- Operating temperature range: -55°C ~ 125°C

Temperature Coefficient

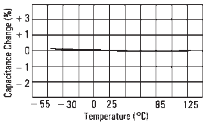

X7R Type - Class 2:
- Operating temperature range: -55°C ~ 125°C

X5R Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

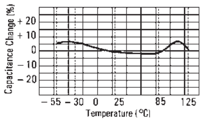

X6S Type - Class 2:
- Operating temperature range: -55°C ~ 105°C

Temperature Coefficient

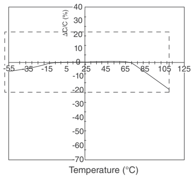

X5S Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

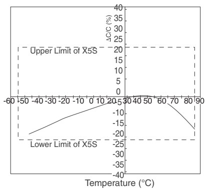

Y5V Type - Class 2:
- Operating temperature range: -30°C ~ 85°C (F Type: -25°C ~ 85°C)

Temperature Coefficient

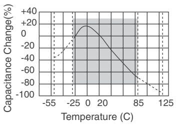

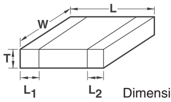

Dimensions in mm

Size Code (EIA)	L◊	W◊	L1 / L2
0201	0.6	0.3	0.15
0402	1.00	0.50	0.20
0508	1.25	2.00	0.20
0603	1.60	0.80	0.30
0612	1.60	3.2	0.30
0805	2.0	1.25	0.50
1206	3.20	1.60	0.60
1210	3.20	2.50	0.60

◊ See data sheet for dimensional tolerance.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	10	100	500		Qty.	Pricing	
0201	NP0	25	0.5pF	±.25pF	0.30	PCC2101CT-ND◆	—	.75	2.68	6.85	PCC2101TR-ND◆	15,000	5.96/M	ECJ-ZEC1E0R5C
		25	1.0pF	±.25pF	0.30	PCC2102CT-ND◆	—	.75	2.68	6.85	PCC2102TR-ND◆	15,000	5.96/M	ECJ-ZEC1E010C
		25	1.5pF	±.25pF	0.30	PCC2103CT-ND◆	—	.75	2.68	6.85	PCC2103TR-ND◆	15,000	5.96/M	ECJ-ZEC1E1R5C
		25	2.0pF	±.25pF	0.30	PCC2104CT-ND◆	—	.75	2.68	6.85	PCC2104TR-ND◆	15,000	5.96/M	ECJ-ZEC1E020C
		25	3.0pF	±.25pF	0.30	PCC2105CT-ND◆	—	.75	2.68	6.85	PCC2105TR-ND◆	15,000	5.96/M	ECJ-ZEC1E030C
		25	4.0pF	±.25pF	0.30	PCC2106CT-ND◆	—	.75	2.68	6.85	PCC2106TR-ND◆	15,000	5.96/M	ECJ-ZEC1E040C
		25	5.0pF	±.25pF	0.30	PCC2107CT-ND◆	—	.75	2.68	6.85	PCC2107TR-ND◆	15,000	5.96/M	ECJ-ZEC1E050C
		25	6.0pF	±.5pF	0.30	PCC2108CT-ND	—	.75	2.68	6.85	PCC2108TR-ND	15,000	5.96/M	ECJ-ZEC1E060D
		25	7.0pF	±.5pF	0.30	PCC2109CT-ND	—	.75	2.68	6.85	PCC2109TR-ND	15,000	5.96/M	ECJ-ZEC1E070D
		25	8.0pF	±.5pF	0.30	PCC2110CT-ND◆	—	.75	2.68	6.85	—	—	—	ECJ-ZEC1E080D
		25	9.0pF	±.5pF	0.30	PCC2111CT-ND◆	—	.75	2.68	6.85	PCC2111TR-ND◆	15,000	5.96/M	ECJ-ZEC1E090D
		25	10pF	±.5pF	0.30	PCC2112CT-ND◆	—	.75	2.68	6.85	PCC2112TR-ND◆	15,000	5.96/M	ECJ-ZEC1E100D
		25	12pF	±5%	0.30	PCC2113CT-ND◆	—	.75	2.68	6.85	PCC2113TR-ND◆	15,000	5.96/M	ECJ-ZEC1E120J
		25	15pF	±5%	0.30	PCC2114CT-ND◆	—	.75	2.68	6.85	PCC2114TR-ND◆	15,000	5.96/M	ECJ-ZEC1E150J
		25	18pF	±5%	0.30	PCC2115CT-ND◆	—	.75	2.68	6.85	PCC2115TR-ND◆	15,000	5.96/M	ECJ-ZEC1E180J
		25	27pF	±5%	0.30	PCC2117CT-ND◆	—	.75	2.68	6.85	PCC2117TR-ND◆	15,000	5.96/M	ECJ-ZEC1E270J
		25	33pF	±5%	0.30	PCC2118CT-ND◆	—	.75	2.68	6.85	PCC2118TR-ND◆	15,000	5.96/M	ECJ-ZEC1E330J
		16	39pF	±5%	0.30	PCC2119CT-ND	—	.75	2.68	6.85	PCC2119TR-ND	15,000	5.96/M	ECJ-ZEC1C390J
		16	47pF	±5%	0.30	PCC2120CT-ND◆	—	.75	2.68	6.85	PCC2120TR-ND◆	15,000	5.96/M	ECJ-ZEC1C470J
		16	56pF	±5%	0.30	PCC2121CT-ND◆	—	.75	2.68	6.85	PCC2121TR-ND◆	15,000	5.96/M	ECJ-ZEC1C560J
		16	68pF	±5%	0.30	PCC2122CT-ND◆	—	.85	3.05	7.80	—	—	—	ECJ-ZEC1C680J
		16	82pF	±5%	0.30	PCC2123CT-ND	—	.85	3.05	7.80	PCC2123TR-ND	15,000	6.78/M	ECJ-ZEC1C820J
		16	100pF	±5%	0.30	PCC2124CT-ND◆	—	1.03	3.69	9.43	PCC2124TR-ND◆	15,000	8.20/M	ECJ-ZEC1C101J
	X7R	50	150pF	±10%	0.30	PCC2388CT-ND◆	—	.75	2.68	6.85	PCC2388TR-ND◆	15,000	5.96/M	ECJ-ZEB1H151K
		50	220pF	±10%	0.30	PCC2389CT-ND◆	—	.75	2.68	6.85	PCC2389TR-ND◆	15,000	5.96/M	ECJ-ZEB1H221K
		50	330pF	±10%	0.30	PCC2390CT-ND◆	—	.75	2.68	6.85	—	—	—	ECJ-ZEB1H331K
		50	470pF	±10%	0.30	PCC2391CT-ND◆	—	.75	2.68	6.85	PCC2391TR-ND◆	15,000	5.96/M	ECJ-ZEB1H471K
		50	680pF	±10%	0.30	PCC2392CT-ND◆	—	.75	2.68	6.85	PCC2392TR-ND◆	15,000	5.96/M	ECJ-ZEB1H681K
		50	1000pF	±10%	0.30	PCC2387CT-ND◆	—	.75	2.68	6.85	—	—	—	ECJ-ZEB1H102K
		25	150pF	±10%	0.30	PCC2125CT-ND	—	.75	2.68	6.85	PCC2125TR-ND	15,000	5.96/M	ECJ-ZEB1E151K
		25	220pF	±10%	0.30	PCC2126CT-ND◆	—	.75	2.68	6.85	PCC2126TR-ND◆	15,000	5.96/M	ECJ-ZEB1E221K
		25	330pF	±10%	0.30	PCC2127CT-ND	—	.75	2.68	6.85	PCC2127TR-ND	15,000	5.96/M	ECJ-ZEB1E331K
		25	470pF	±10%	0.30	PCC2128CT-ND◆	.—	.75	2.68	6.85	PCC2128TR-ND◆	15,000	5.96/M	ECJ-ZEB1E471K
		25	680pF	±10%	0.30	PCC2129CT-ND	—	.75	2.68	6.85	PCC2129TR-ND	15,000	5.96/M	ECJ-ZEB1E681K
		25	1000pF	±10%	0.30	PCC2130CT-ND◆	—	.75	2.68	6.85	PCC2130TR-ND◆	15,000	5.96/M	ECJ-ZEB1E102K
		25	1500pF	±10%	0.30	PCC2385CT-ND◆	—	.75	2.68	6.85	PCC2385TR-ND◆	15,000	5.96/M	ECJ-ZEB1E152K
		25	2200pF	±10%	0.30	PCC2386CT-ND◆	—	.75	2.68	6.85	PCC2386TR-ND◆	15,000	5.96/M	ECJ-ZEB1E222K
		16	1500pF	±10%	0.30	PCC2131CT-ND	—	.75	2.68	6.85	PCC2131TR-ND	15,000	5.96/M	ECJ-ZEB1C152K
		16	2200pF	±10%	0.30	PCC2132CT-ND◆	—	.75	2.68	6.85	PCC2132TR-ND◆	15,000	5.96/M	ECJ-ZEB1C222K
		10	3300pF	±10%	0.30	PCC2133CT-ND	—	.75	2.68	6.85	PCC2133TR-ND	15,000	5.96/M	ECJ-ZEB1A332K
	X5R	6.3	4700pF	±10%	0.30	PCC2134CT-ND◆	—	.75	2.68	6.85	PCC2134TR-ND◆	15,000	5.96/M	ECJ-ZEB0J472K
		6.3	6800pF	±10%	0.30	PCC2135CT-ND◆	—	.75	2.68	6.85	PCC2135TR-ND◆	15,000	5.96/M	ECJ-ZEB0J682K
		6.3	10000pF	±10%	0.30	PCC2136CT-ND◆	.16	1.00	3.61	9.22	PCC2136TR-ND◆	15,000	8.02/M	ECJ-ZEB0J103K
		6.3	.1µF	±10%	0.30	PCC13492CT-ND◆†	.43	2.70	9.72	24.84	PCC13492TR-ND◆†	15,000	21.60/M	ECJ-ZEBFJ104K
		6.3	.1µF	±20%	0.30	PCC2336CT-ND◆	.21	1.30	4.66	11.91	PCC2336TR-ND◆	15,000	10.36/M	ECJ-ZEB0J104M
		10	4700pF	±10%	0.30	PCC2382CT-ND	—	.75	2.68	6.85	PCC2382TR-ND	15,000	5.96/M	ECJ-ZEB1A472K
		10	6800pF	±10%	0.30	PCC2383CT-ND	—	.75	2.68	6.85	PCC2383TR-ND	15,000	5.96/M	ECJ-ZEB1A682K
		10	.01µF	±10%	0.30	PCC2381CT-ND◆	—	.75	2.98	6.85	PCC2381TR-ND◆	15,000	5.96/M	ECJ-ZEB1A103K
		10	0.1µF	±20%	0.30	PCC2424CT-ND◆	.36	2.27	11.34	27.54	PCC2424TR-ND◆	15,000	29.16/M	ECJ-ZEB1A104M
		16	3300pF	±10%	0.30	PCC2384CT-ND◆	—	.75	2.68	6.85	PCC2384TR-ND◆	15,000	5.96/M	ECJ-ZEB1C332K
0402	NP0	50	.5pF	±.25pF	0.50	PCC0R5CQCT-ND◆§•	—	.73	2.63	6.72	PCC0R5CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H0R5C
		50	1.0pF	±.25pF	0.50	PCC010CQCT-ND◆§•	—	.73	2.63	6.72	PCC010CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H010C
		50	1.5pF	±.25pF	0.50	PCC1R5CQCT-ND◆§•	—	.73	2.63	6.72	—	—	—	ECJ-0EC1H1R5C
		50	2.0pF	±.25pF	0.50	PCC020CQCT-ND◆§•	—	.73	2.63	6.72	PCC020CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H020C
		50	3.0pF	±.25pF	0.50	PCC030CQCT-ND◆§•	—	.73	2.63	6.72	PCC030CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H030C
		50	4.0pF	±.25pF	0.50	PCC040CQCT-ND§•	—	.73	2.63	6.72	PCC040CQTR-ND§	10,000	6.00/M	ECJ-0EC1H040C
		50	5.0pF	±.25pF	0.50	PCC050CQCT-ND§•	—	.73	2.63	6.72	PCC050CQTR-ND§	10,000	6.14/M	ECJ-0EC1H050C
		50	6.0pF	±.5pF	0.50	PCC060CQCT-ND◆§•	—	.73	2.63	6.72	PCC060CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H060D
		50	7.0pF	±.5pF	0.50	PCC070CQCT-ND◆§•	—	.73	2.63	6.72	PCC070CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H070D
		50	8.0pF	±.5pF	0.50	PCC080CQCT-ND§•	—	.73	2.63	6.72	PCC080CQTR-ND§	10,000	6.00/M	ECJ-0EC1H080D
		50	9.0pF	±.5pF	0.50	PCC090CQCT-ND◆§•	—	.73	2.63	6.72	PCC090CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H090D
		50	10pF	±.5pF	0.50	PCC100CQCT-ND◆§•	—	.73	2.63	6.72	PCC100CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H100D
		50	12pF	±5%	0.50	PCC120CQCT-ND◆§•	—	.73	2.63	6.72	PCC120CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H120J
		50	15pF	±5%	0.50	PCC150CQCT-ND◆§•	—	.73	2.63	6.72	PCC150CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H150J
		50	18pF	±5%	0.50	PCC180CQCT-ND◆§•	—	.73	2.63	6.72	PCC180CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H180J
		50	22pF	±5%	0.50	PCC220CQCT-ND◆§•	—	.73	2.63	6.72	PCC220CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H220J
		50	27pF	±5%	0.50	PCC270CQCT-ND◆§•	—	.73	2.63	6.72	PCC270CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H270J
		50	33pF	±5%	0.50	PCC330CQCT-ND◆§•	—	.73	2.63	6.72	PCC330CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H330J
		50	39pF	±5%	0.50	PCC390CQCT-ND◆§•	—	.73	2.63	6.72	PCC390CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H390J
		50	47pF	±5%	0.50	PCC470CQCT-ND◆§•	—	.45	1.61	4.12	PCC470CQTR-ND◆§	10,000	4.00/M	ECJ-0EC1H470J
		50	56pF	±5%	0.50	PCC560CQCT-ND◆§•	—	.73	2.63	6.72	PCC560CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H560J
		50	68pF	±5%	0.50	PCC680CQCT-ND◆§•	—	.73	2.63	6.72	PCC680CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H680J
		50	82pF	±5%	0.50	PCC820CQCT-ND◆§•	—	.73	2.63	6.72	PCC820CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H820J
		50	100pF	±5%	0.50	PCC101CQCT-ND◆§•	—	.45	1.61	4.12	PCC101CQTR-ND◆§	10,000	4.00/M	ECJ-0EC1H101J
		50	120pF	±5%	0.50	PCC121CQCT-ND◆§•	—	.73	2.63	6.72	PCC121CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H121J
		50	150pF	±5%	0.50	PCC151CQCT-ND◆§•	—	.73	2.63	6.72	PCC151CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H151J

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Size		WV			Dim. T	Digi-Key	Cut Tape Pricing				Digi-Key	Tape and Reel		Panasonic
Code	Type	DC	Cap.	Tolerance	(mm)	Part No.	1	10	100	500	Part No.	Qty.	Pricing	Part No.
0402	NP0	50	180pF	±5%	0.50	PCC181CQCT-ND◆§•	—	.73	2.63	6.72	PCC181CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H181J
		50	220pF	±5%	0.50	PCC221CQCT-ND◆§•	—	.73	2.63	6.72	PCC221CQTR-ND◆§	10,000	6.00/M	ECJ-0EC1H221J
	X7R	50	100pF	±10%	0.50	PCC1709CT-ND◆§•	—	.73	2.63	6.72	PCC1709TR-ND◆§	10,000	6.00/M	ECJ-0EB1H101K
		50	120pF	±10%	0.50	PCC1710CT-ND◆§•	—	.73	2.63	6.72	PCC1710TR-ND◆§	10,000	6.00/M	ECJ-0EB1H121K
		50	150pF	±10%	0.50	PCC1711CT-ND◆§•	—	.73	2.63	6.72	PCC1711TR-ND◆§	10,000	6.00/M	ECJ-0EB1H151K
		50	180pF	±10%	0.50	PCC1712CT-ND◆§•	—	.73	2.63	6.72	PCC1712TR-ND◆§	10,000	6.00/M	ECJ-0EB1H181K
		50	220pF	±10%	0.50	PCC1713CT-ND◆§•	—	.73	2.63	6.72	PCC1713TR-ND◆§	10,000	6.00/M	ECJ-0EB1H221K
		50	270pF	±10%	0.50	PCC1714CT-ND◆§•	—	.73	2.63	6.72	PCC1714TR-ND◆§	10,000	6.00/M	ECJ-0EB1H271K
		50	330pF	±10%	0.50	PCC1715CT-ND◆§•	—	.73	2.63	6.72	PCC1715TR-ND◆§	10,000	6.00/M	ECJ-0EB1H331K
		50	390pF	±10%	0.50	PCC1716CT-ND◆§•	—	.73	2.63	6.72	PCC1716TR-ND◆§	10,000	6.00/M	ECJ-0EB1H391K
		50	470pF	±10%	0.50	PCC1717CT-ND◆§•	—	.73	2.63	6.72	PCC1717TR-ND◆§	10,000	6.00/M	ECJ-0EB1H471K
		50	560pF	±10%	0.50	PCC1718CT-ND◆§•	—	.73	2.63	6.72	PCC1718TR-ND◆§	10,000	6.00/M	ECJ-0EB1H561K
		50	680pF	±10%	0.50	PCC1719CT-ND◆§•	—	.73	2.63	6.72	PCC1719TR-ND◆§	10,000	6.00/M	ECJ-0EB1H681K
		50	820pF	±10%	0.50	PCC1720CT-ND◆§•	—	.73	2.63	6.72	PCC1720TR-ND◆§	10,000	6.00/M	ECJ-0EB1H821K
		50	1000pF	±10%	0.50	PCC1721CT-ND◆§•	—	.35	1.25	3.20	PCC1721TR-ND◆§	10,000	3.00/M	ECJ-0EB1H102K
		50	1200pF	±10%	0.50	PCC1722CT-ND◆§•	—	.73	2.63	6.72	PCC1722TR-ND◆§	10,000	6.00/M	ECJ-0EB1H122K
		50	1500pF	±10%	0.50	PCC1723CT-ND◆§•	—	.73	2.63	6.72	—	—	—	ECJ-0EB1H152K
		50	1800pF	±10%	0.50	PCC1724CT-ND◆§•	—	.73	2.63	6.72	PCC1724TR-ND◆§	10,000	6.00/M	ECJ-0EB1H182K
		50	2200pF	±10%	0.50	PCC1725CT-ND◆§•	—	.73	2.63	6.72	PCC1725TR-ND◆§	10,000	6.00/M	ECJ-0EB1H222K
		50	2700pF	±10%	0.50	PCC1726CT-ND◆§•	—	.73	2.63	6.72	PCC1726TR-ND◆§	10,000	6.00/M	ECJ-0EB1H272K
		50	3300pF	±10%	0.50	PCC1727CT-ND◆§•	—	.73	2.63	6.72	PCC1727TR-ND◆§	10,000	6.00/M	ECJ-0EB1H332K
		50	3900pF	±10%	0.50	PCC1728CT-ND◆§•	—	.73	2.63	6.72	PCC1728TR-ND◆§	10,000	6.00/M	ECJ-0EB1H392K
		25	100pF	±10%	0.50	PCC1702CT-ND◆	.18	1.14	4.09	10.44	PCC1702TR-ND◆	10,000	10.00/M	ECJ-0EB1E101K
		25	120pF	±10%	0.50	PCC1703CT-ND◆	.18	1.14	4.09	10.44	PCC1703TR-ND◆	10,000	10.00/M	ECJ-0EB1E121K
		25	150pF	±10%	0.50	PCC1704CT-ND◆	.18	1.14	4.09	10.44	—	—	—	ECJ-0EB1E151K
		25	180pF	±10%	0.50	PCC1705CT-ND	.18	1.14	4.09	10.44	PCC1705TR-ND	10,000	9.54/M	ECJ-0EB1E181K
		25	220pF	±10%	0.50	PCC1706CT-ND◆	.18	1.14	4.09	10.44	PCC1706TR-ND◆	10,000	10.00/M	ECJ-0EB1E221K
		25	270pF	±10%	0.50	PCC271BQCT-ND◆	.18	1.14	4.09	10.44	PCC271BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E271K
		25	330pF	±10%	0.50	PCC331BQCT-ND◆	.18	1.14	4.09	10.44	PCC331BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E331K
		25	391pF	±10%	0.50	PCC391BQCT-ND◆	.18	1.14	4.09	10.44	PCC391BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E391K
		25	470pF	±10%	0.50	PCC471BQCT-ND◆	.18	1.14	4.09	10.44	PCC471BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E471K
		25	560pF	±10%	0.50	PCC561BQCT-ND◆	.18	1.14	4.09	10.44	—	—	—	ECJ-0EB1E561K
		25	680pF	±10%	0.50	PCC681BQCT-ND◆	.18	1.14	4.09	10.44	PCC681BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E681K
		25	820pF	±10%	0.50	PCC821BQCT-ND◆	.18	1.14	4.09	10.44	PCC821BQTR-ND◆	10,000	10.00/M	ECJ-0EB1E821K
		25	1000pF	±10%	0.50	PCC102BQCT-ND◆	.20	1.24	4.47	11.43	—	—	—	ECJ-0EB1E102K
		25	1200pF	±10%	0.50	PCC122BQCT-ND◆	.21	1.30	4.66	11.91	—	—	—	ECJ-0EB1E122K
		25	1500pF	±10%	0.50	PCC152BQCT-ND◆	.21	1.30	4.66	11.91	PCC152BQTR-ND◆	10,000	11.00/M	ECJ-0EB1E152K
		25	1800pF	±10%	0.50	PCC182BQCT-ND◆	.21	1.30	4.66	11.91	—	—	—	ECJ-0EB1E182K
		25	2200pF	±10%	0.50	PCC222BQCT-ND◆	.21	1.30	4.66	11.91	PCC222BQTR-ND◆	10,000	11.00/M	ECJ-0EB1E222K
		25	2700pF	±10%	0.50	PCC272BQCT-ND◆	.21	1.30	4.66	11.91	—	—	—	ECJ-0EB1E272K
		25	3300pF	±10%	0.50	PCC332BQCT-ND◆	.21	1.30	4.66	11.91	PCC332BQTR-ND◆	10,000	11.00/M	ECJ-0EB1E332K
		25	3900pF	±10%	0.50	PCC392BQCT-ND◆	.21	1.30	4.66	11.91	PCC392BQTR-ND◆	10,000	11.00/M	ECJ-0EB1E392K
		25	4700pF	±10%	0.50	PCC472BQCT-ND◆§•	—	.73	2.63	6.72	PCC472BQTR-ND◆§	10,000	6.00/M	ECJ-0EB1E472K
		25	6800pF	±10%	0.50	PCC1708CT-ND◆§•	—	.73	2.63	6.72	PCC1708TR-ND◆§	10,000	6.00/M	ECJ-0EB1E682K
		25	8200pF	±10%	0.50	PCC2271CT-ND◆	—	.73	2.63	6.72	—	—	—	ECJ-0EB1E822K
		25	.01µF	±10%	0.50	PCC2270CT-ND◆	—	.45	1.61	4.12	PCC2270TR-ND◆	10,000	4.00/M	ECJ-0EB1E103K
		16	5600pF	±10%	0.50	PCC562BQCT-ND◆	.21	1.30	4.66	11.91	PCC562BQTR-ND◆	10,000	11.00/M	ECJ-0EB1C562K
		16	6800pF	±10%	0.50	PCC682BQCT-ND◆	.21	1.30	4.66	11.91	PCC682BQTR-ND◆	10,000	11.00/M	ECJ-0EB1C682K
		16	8200pF	±10%	0.50	PCC822BQCT-ND◆§•	.21	1.30	4.66	11.91	PCC822BQTR-ND◆§	10,000	11.00/M	ECJ-0EB1C822K
		16	10000pF	±10%	0.50	PCC103BQCT-ND◆§•	—	.35	1.25	3.20	PCC103BQTR-ND◆§	10,000	3.00/M	ECJ-0EB1C103K
		16	12000pF	±10%	0.50	PCC1700CT-ND◆§•	—	.73	2.63	6.72	PCC1700TR-ND◆§	10,000	6.00/M	ECJ-0EB1C123K
		16	15000pF	±10%	0.50	PCC1701CT-ND◆§•	—	.76	2.72	6.95	PCC1701TR-ND◆§	10,000	6.00/M	ECJ-0EB1C153K
		16	18000pF	±10%	0.50	PCC2137CT-ND◆§•	—	.87	3.11	7.96	PCC2137TR-ND◆§	10,000	7.00/M	ECJ-0EB1C183K
		16	22000pF	±10%	0.50	PCC2138CT-ND◆§•	—	.87	3.11	7.96	PCC2138TR-ND◆§	10,000	7.00/M	ECJ-0EB1C223K
		16	.1µF	±10%	0.50	PCC13490CT-ND◆	.35	2.25	11.26	27.35	PCC13490TR-ND◆	10,000	30.58/M	ECJ-0EX1C104K
	X5R	16	27000pF	±10%	0.50	PCC2433CT-ND◆	.34	2.11	7.58	19.37	PCC2433TR-ND◆	10,000	18.00/M	ECJ-0EB1C273K
		16	33000pF	±10%	0.50	PCC2434CT-ND◆	.34	2.11	7.58	19.37	PCC2434TR-ND◆	10,000	18.00/M	ECJ-0EB1C333K
		16	39000pF	±10%	0.50	PCC2435CT-ND◆	.34	2.11	7.58	19.37	—	—	—	ECJ-0EB1C393K
		16	47000pF	±10%	0.50	PCC2436CT-ND◆	.34	2.11	7.58	19.37	—	—	—	ECJ-0EB1C473K
		16	56000pF	±10%	0.50	PCC2437CT-ND◆	.34	2.11	7.58	19.37	PCC2437TR-ND◆	10,000	18.00/M	ECJ-0EB1C563K
		16	68000pF	±10%	0.50	PCC2438CT-ND◆	.34	2.11	7.58	19.37	PCC2438TR-ND◆	10,000	18.00/M	ECJ-0EB1C683K
		16	82000pF	±10%	0.50	PCC2439CT-ND◆	.34	2.11	7.58	19.37	PCC2439TR-ND◆	10,000	18.00/M	ECJ-0EB1C823K
		16	.1µF	±10%	0.50	PCC2363CT-ND◆	.29	1.81	6.52	16.65	PCC2363TR-ND◆	10,000	15.00/M	ECJ-0EB1C104K
		16	0.22µF	±10%	0.50	PCC2425CT-ND◆	.44	3.38	19.44	55.77	PCC2425TR-ND◆	10,000	59.15/M	ECJ-0EB1C224K
		10	27000pF	±10%	0.50	PCC2139CT-ND◆	.16	1.03	3.69	9.43	—	—	—	ECJ-0EB1A273K
		10	33000pF	±10%	0.50	PCC2140CT-ND◆	.16	1.03	3.69	9.43	—	—	—	ECJ-0EB1A333K
		10	39000pF	±10%	0.50	PCC2141CT-ND◆	.16	1.03	3.69	9.43	PCC2141TR-ND◆	10,000	9.00/M	ECJ-0EB1A393K
		10	47000pF	±10%	0.50	PCC2142CT-ND◆	—	.75	2.68	6.85	PCC2142TR-ND◆	10,000	6.00/M	ECJ-0EB1A473K
		10	56000pF	±10%	0.50	PCC2143CT-ND◆	.16	1.03	3.69	9.43	PCC2143TR-ND◆	10,000	9.00/M	ECJ-0EB1A563K
		10	68000pF	±10%	0.50	PCC2144CT-ND◆	.16	1.03	3.69	9.43	PCC2144TR-ND◆	10,000	9.00/M	ECJ-0EB1A683K
		10	82000pF	±10%	0.50	PCC2145CT-ND◆	.16	1.03	3.69	9.43	PCC2145TR-ND◆	10,000	9.00/M	ECJ-0EB1A823K
		10	.1µF	±10%	0.50	PCC2146CT-ND◆•	—	.33	1.17	2.99	PCC2146TR-ND◆	10,000	3.00/M	ECJ-0EB1A104K
		10	1.0µF	±20%	0.50	PCC2364CT-ND◆	.32	1.99	7.16	18.29	PCC2364TR-ND◆	10,000	17.00/M	ECJ-0EB1A105M
		6.3	.22µF	±10%	0.50	PCC2269CT-ND	.20	1.24	4.47	11.43	PCC2269TR-ND◆	10,000	10.00/M	ECJ-0EB0J224K
		6.3	.47µF	±10%	0.50	PCC2394CT-ND	.26	1.65	5.93	15.16	PCC2394TR-ND◆	10,000	14.00/M	ECJ-0EB0J474K
		6.3	1µF	±20%	0.50	PCC2257CT-ND	.27	1.68	6.03	15.41	PCC2257TR-ND◆	10,000	14.00/M	ECJ-0EB0J105M
		6.3	1µF	±10%	0.50	PCC2393CT-ND	.18	1.14	4.11	10.51	PCC2393TR-ND◆	10,000	10.00/M	ECJ-0EB0J105K
		6.3	1µF	±10%	0.50	PCC13493CT-ND◆†	.37	2.82	16.21	46.51	PCC13493TR-ND◆†	10,000	49.34/M	ECJ-0EBFJ105K
		6.3	2.2µF	±20%	0.50	PCC2421CT-ND◆	—	3.39	19.50	55.95	PCC2421TR-ND◆	10,000	59.35/M	ECJ-0EB0J225M
		6.3	4.7µF	±20%	0.50	PCC2475CT-ND◆	—	2.90	19.43	63.59	PCC2475TR-ND◆	10,000	92.00/M	ECJ-0EB0J475M
	Y5V	50	1000pF	+80%/-20%	0.50	PCC1741CT-ND◆	—	.76	2.72	6.95	PCC1741TR-ND◆	10,000	6.35/M	ECJ-0EF1H102Z
		50	1500pF	+80%/-20%	0.50	PCC1742CT-ND	.38	3.41	21.33	68.26	PCC1742TR-ND	10,000	68.26/M	ECJ-0EF1H152Z
		50	2200pF	+80%/-20%	0.50	PCC1743CT-ND	—	.76	2.72	6.95	PCC1743TR-ND	10,000	6.35/M	ECJ-0EF1H222Z
		50	3300pF	+80%/-20%	0.50	PCC1744CT-ND	.38	3.41	21.33	68.26	PCC1744TR-ND	10,000	68.26/M	ECJ-0EF1H332Z
		50	4700pF	+80%/-20%	0.50	PCC1745CT-ND◆	—	.76	2.72	6.95	PCC1745TR-ND◆	10,000	6.35/M	ECJ-0EF1H472Z
		50	6800pF	+80%/-20%	0.50	PCC1746CT-ND	.38	3.41	21.33	68.26	PCC1746TR-ND	10,000	68.26/M	ECJ-0EF1H682Z
		50	10000pF	+80%/-20%	0.50	PCC1747CT-ND◆	—	.76	2.72	6.95	PCC1747TR-ND◆	10,000	6.35/M	ECJ-0EF1H103Z
		25	1000pF	+80%/-20%	0.50	PCC1732CT-ND◆	—	.76	2.72	6.95	PCC1732TR-ND◆	10,000	6.35/M	ECJ-0EF1E102Z
		25	1500pF	+80%/-20%	0.50	PCC1733CT-ND	.38	3.41	21.33	68.26	PCC1733TR-ND	10,000	68.26/M	ECJ-0EF1E152Z
		25	2200pF	+80%/-20%	0.50	PCC1734CT-ND◆	—	.76	2.72	6.95	—	—	—	ECJ-0EF1E222Z
		25	3300pF	+80%/-20%	0.50	PCC1735CT-ND	.38	3.41	21.33	68.26	PCC1735TR-ND	10,000	68.26/M	ECJ-0EF1E332Z
		25	4700pF	+80%/-20%	0.50	PCC1736CT-ND	—	.76	2.72	6.95	PCC1736TR-ND	10,000	6.35/M	ECJ-0EF1E472Z
		25	6800pF	+80%/-20%	0.50	PCC1737CT-ND	.38	3.41	21.33	68.26	PCC1737TR-ND	10,000	68.26/M	ECJ-0EF1E682Z
		25	10000pF	+80%/-20%	0.50	PCC1738CT-ND◆	—	.76	2.72	6.95	PCC1738TR-ND◆	10,000	6.35/M	ECJ-0EF1E103Z
		25	15000pF	+80%/-20%	0.50	PCC1739CT-ND	.45	3.97	24.84	79.49	PCC1739TR-ND	10,000	79.49/M	ECJ-0EF1E153Z
		25	22000pF	+80%/-20%	0.50	PCC1740CT-ND◆	—	.76	2.72	6.95	PCC1740TR-ND◆	10,000	6.35/M	ECJ-0EF1E223Z
		16	15000pF	+80%/-20%	0.50	PCC153FQCT-ND	.45	3.97	24.84	79.49	PCC153FQTR-ND	10,000	79.49/M	ECJ-0EF1C153Z
		16	22000pF	+80%/-20%	0.50	PCC223FQCT-ND	—	.76	2.72	6.95	PCC223FQTR-ND	10,000	6.35/M	ECJ-0EF1C223Z
		16	33000pF	+80%/-20%	0.50	PCC333FQCT-ND◆	.49	4.37	27.33	87.44	PCC333FQTR-ND◆	10,000	87.44/M	ECJ-0EF1C333Z
		16	47000pF	+80%/-20%	0.50	PCC1729CT-ND◆	—	.76	2.72	6.95	PCC1729TR-ND◆	10,000	6.35/M	ECJ-0EF1C473Z
		16	68000pF	+80%/-20%	0.50	PCC1730CT-ND◆	.25	1.59	5.73	14.65	PCC1730TR-ND◆	10,000	13.38/M	ECJ-0EF1C683Z
		16	.1µF	+80%/-20%	0.50	PCC1731CT-ND◆	—	.37	1.34	3.43	PCC1731TR-ND◆	10,000	3.13/M	ECJ-0EF1C104Z
		10	.22µF	+80%/-20%	0.50	PCC2272CT-ND◆	.24	1.51	5.45	13.92	PCC2272TR-ND◆	10,000	13.00/M	ECJ-0EF1A224Z
0508	X5R	50	.01µF	±10%	0.85	PCC2187CT-ND◆	.47	3.63	20.87	59.88	PCC2187TR-ND◆	4,000	67.14/M	ECY-29RH103KV

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	10	100	500		Qty.	Pricing	
0603	NP0	100	10pF	±0.5pF	0.80	PCC1941CT-ND◆	.21	1.30	4.66	11.91	PCC1941TR-ND◆	4,000	11.92/M	ECJ-1VC2A100D
		100	15pF	±5%	0.80	PCC1942CT-ND◆	.21	1.30	4.66	11.91	PCC1942TR-ND◆	4,000	11.92/M	ECJ-1VC2A150J
		100	22pF	±5%	0.80	PCC1943CT-ND◆	.21	1.30	4.66	11.91	PCC1943TR-ND◆	4,000	11.92/M	ECJ-1VC2A220J
		100	33pF	±5%	0.80	PCC1944CT-ND◆	.21	1.30	4.66	11.91	PCC1944TR-ND◆	4,000	11.92/M	ECJ-1VC2A330J
		100	47pF	±5%	0.80	PCC1945CT-ND◆	.21	1.30	4.66	11.91	PCC1945TR-ND◆	4,000	11.92/M	ECJ-1VC2A470J
		100	68pF	±5%	0.80	PCC1946CT-ND◆	.21	1.30	4.66	11.91	PCC1946TR-ND◆	4,000	11.92/M	ECJ-1VC2A680J
		100	100pF	±5%	0.80	PCC1947CT-ND◆	.21	1.30	4.66	11.91	PCC1947TR-ND◆	4,000	11.92/M	ECJ-1VC2A101J
		50	.5pF	±0.25pF	0.80	PCC0R5CVCT-ND◆§•	—	.95	3.40	8.69	PCC0R5CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H0R5C
		50	1pF	±0.25pF	0.80	PCC010CVCT-ND◆§•	—	.95	3.40	8.69	PCC010CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H010C
		50	1.5pF	±0.25pF	0.80	PCC1R5CVCT-ND◆§•	—	.95	3.40	8.69	PCC1R5CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H1R5C
		50	2pF	±0.25pF	0.80	PCC020CVCT-ND◆§•	—	.95	3.40	8.69	PCC020CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H020C
		50	3pF	±0.25pF	0.80	PCC030CVCT-ND◆§•	—	.95	3.40	8.69	—	—	—	ECJ-1VC1H030C
		50	4pF	±0.25pF	0.80	PCC040CVCT-ND◆§•	—	.95	3.40	8.69	PCC040CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H040C
		50	5pF	±0.25pF	0.80	PCC050CVCT-ND◆§•	—	.95	3.40	8.69	PCC050CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H050C
		50	6pF	±0.5pF	0.80	PCC060CVCT-ND◆§•	—	.95	3.40	8.69	PCC060CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H060D
		50	7pF	±0.5pF	0.80	PCC070CVCT-ND◆§•	—	.95	3.40	8.69	PCC070CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H070D
		50	9pF	±0.5pF	0.80	PCC090CVCT-ND◆§•	—	.95	3.40	8.69	PCC090CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H090D
		50	10pF	±0.5pF	0.80	PCC100CVCT-ND◆§•	—	.95	3.40	8.69	PCC100CVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H100D
		50	12pF	±5%	0.80	PCC120ACVCT-ND◆	—	.95	3.40	8.69	PCC120ACVTR-ND◆	4,000	8.70/M	ECJ-1VC1H120J
		50	15pF	±5%	0.80	PCC150ACVCT-ND◆§•	—	.95	3.40	8.69	PCC150ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H150J
		50	18pF	±5%	0.80	PCC180ACVCT-ND◆§•	—	.95	3.40	8.69	PCC180ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H180J
		50	22pF	±5%	0.80	PCC220ACVCT-ND◆§•	—	.95	3.40	8.69	PCC220ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H220J
		50	27pF	±5%	0.80	PCC270ACVCT-ND◆§•	—	.95	3.40	8.69	PCC270ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H270J
		50	33pF	±5%	0.80	PCC330ACVCT-ND◆§•	—	.62	2.23	5.70	PCC330ACVTR-ND◆§	4,000	5.71/M	ECJ-1VC1H330J
		50	39pF	±5%	0.80	PCC390ACVCT-ND§•	—	.95	3.40	8.69	PCC390ACVTR-ND§	4,000	8.70/M	ECJ-1VC1H390J
		50	47pF	±5%	0.80	PCC470ACVCT-ND◆§•	—	.62	2.23	5.70	PCC470ACVTR-ND◆§	4,000	5.71/M	ECJ-1VC1H470J
		50	56pF	±5%	0.80	PCC560ACVCT-ND◆§•	—	.95	3.40	8.69	PCC560ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H560J
		50	68pF	±5%	0.80	PCC680ACVCT-ND◆§•	—	.95	3.40	8.69	PCC680ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H680J
		50	82pF	±5%	0.80	PCC820ACVCT-ND◆§•	—	.95	3.40	8.69	PCC820ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H820J
		50	100pF	±5%	0.80	PCC101ACVCT-ND◆§•	—	.45	1.61	4.12	PCC101ACVTR-ND◆§	4,000	4.12/M	ECJ-1VC1H101J
		50	120pF	±5%	0.80	PCC121ACVCT-ND◆§•	—	.95	3.40	8.69	PCC121ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H121J
		50	150pF	±5%	0.80	PCC151ACVCT-ND◆§•	—	.65	2.32	5.93	PCC151ACVTR-ND◆§	4,000	5.94/M	ECJ-1VC1H151J
		50	180pF	±5%	0.80	PCC181ACVCT-ND◆§•	—	.95	3.40	8.69	PCC181ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H181J
		50	220pF	±5%	0.80	PCC221ACVCT-ND◆§•	—	.95	3.40	8.69	PCC221ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H221J
		50	270pF	±5%	0.80	PCC271ACVCT-ND◆§•	—	.95	3.40	8.69	PCC271ACVTR-ND◆§	4,000	8.70/M	ECJ-1VC1H271J
		50	330pF	±5%	0.80	PCC331ACVCT-ND◆§•	—	.75	2.68	6.85	PCC331ACVTR-ND◆§	4,000	6.86/M	ECJ-1VC1H331J
		50	390pF	±5%	0.80	PCC391ACVCT-ND•	.19	1.19	4.28	10.93	PCC391ACVTR-ND◆§	4,000	10.93/M	ECJ-1VC1H391J
		50	470pF	±5%	0.80	PCC2147CT-ND◆	.19	1.19	4.28	10.93	PCC2147TR-ND◆	4,000	10.93/M	ECJ-1VC1H471J
		50	560pF	±5%	0.80	PCC2148CT-ND◆	.25	1.54	5.54	14.17	PCC2148TR-ND◆	4,000	14.17/M	ECJ-1VC1H561J
		50	680pF	±5%	0.80	PCC2149CT-ND◆	.25	1.54	5.54	14.17	PCC2149TR-ND◆	4,000	14.17/M	ECJ-1VC1H681J
		50	820pF	±5%	0.80	PCC2150CT-ND◆	.25	1.54	5.54	14.17	PCC2150TR-ND◆	4,000	14.17/M	ECJ-1VC1H821J
		50	1000pF	±5%	0.80	PCC2151CT-ND◆	—	.87	3.13	8.00	PCC2151TR-ND◆	4,000	8.01/M	ECJ-1VC1H102J
	X7R	200	330pF	±10%	0.80	PCC1954CT-ND◆	.25	1.54	5.54	14.17	—	—	—	ECJ-1VB2D331K
		200	680pF	±10%	0.80	PCC1956CT-ND◆	.25	1.54	5.54	14.17	PCC1956TR-ND◆	4,000	14.17/M	ECJ-1VB2D681K
		200	1000pF	±10%	0.80	PCC1957CT-ND◆	.25	1.54	5.54	14.17	PCC1957TR-ND◆	4,000	14.17/M	ECJ-1VB2D102K
		100	220pF	±10%	0.80	PCC1948CT-ND◆	.18	1.14	4.09	10.44	PCC1948TR-ND◆	4,000	10.45/M	ECJ-1VB2A221K
		100	330pF	±10%	0.80	PCC1949CT-ND◆	.18	1.14	4.09	10.44	PCC1949TR-ND◆	4,000	10.45/M	ECJ-1VB2A331K
		100	470pF	±10%	0.80	PCC1950CT-ND◆	.18	1.14	4.09	10.44	PCC1950TR-ND◆	4,000	10.45/M	ECJ-1VB2A471K
		100	680pF	±10%	0.80	PCC1951CT-ND◆	.18	1.14	4.09	10.44	PCC1951TR-ND◆	4,000	10.45/M	ECJ-1VB2A681K
		100	1000pF	±10%	0.80	PCC1952CT-ND◆	.18	1.14	4.09	10.44	PCC1952TR-ND◆	4,000	10.45/M	ECJ-1VB2A102K
		50	1000pF	±10%	0.80	PCC1772CT-ND◆§•	—	.47	1.70	4.35	PCC1772TR-ND◆§	4,000	4.35/M	ECJ-1VB1H102K
		50	1200pF	±10%	0.80	PCC1773CT-ND◆§•	—	.81	2.92	7.45	PCC1773TR-ND◆§	4,000	7.46/M	ECJ-1VB1H122K
		50	1500pF	±10%	0.80	PCC1774CT-ND◆§•	—	.81	2.92	7.45	PCC1774TR-ND◆§	4,000	7.46/M	ECJ-1VB1H152K
		50	1800pF	±10%	0.80	PCC1775CT-ND◆§•	—	.81	2.92	7.45	PCC1775TR-ND◆§	4,000	7.46/M	ECJ-1VB1H182K
		50	2200pF	±10%	0.80	PCC1776CT-ND◆§•	—	.81	2.92	7.45	PCC1776TR-ND◆§	4,000	7.46/M	ECJ-1VB1H222K
		50	2700pF	±10%	0.80	PCC1777CT-ND◆§•	—	.81	2.92	7.45	PCC1777TR-ND◆§	4,000	7.46/M	ECJ-1VB1H272K
		50	3300pF	±10%	0.80	PCC1778CT-ND◆§•	—	.81	2.92	7.45	PCC1778TR-ND◆§	4,000	7.46/M	ECJ-1VB1H332K
		50	3900pF	±10%	0.80	PCC1779CT-ND◆§•	—	.81	2.92	7.45	PCC1779TR-ND◆§	4,000	7.46/M	ECJ-1VB1H392K
		50	4700pF	±10%	0.80	PCC1780CT-ND◆§•	—	.57	2.06	5.27	PCC1780TR-ND◆§	4,000	5.27/M	ECJ-1VB1H472K
		50	5600pF	±10%	0.80	PCC1781CT-ND◆§•	—	.81	2.92	7.45	PCC1781TR-ND◆§	4,000	7.46/M	ECJ-1VB1H562K
		50	6800pF	±10%	0.80	PCC1782CT-ND◆§•	—	.81	2.92	7.45	PCC1782TR-ND◆§	4,000	7.46/M	ECJ-1VB1H682K
		50	8200pF	±10%	0.80	PCC1783CT-ND◆§•	—	.81	2.92	7.45	PCC1783TR-ND◆§	4,000	7.46/M	ECJ-1VB1H822K
		50	10000pF	±10%	0.80	PCC1784CT-ND◆§•	—	.42	1.51	3.86	PCC1784TR-ND◆§	4,000	3.87/M	ECJ-1VB1H103K
		50	12000pF	±10%	0.80	PCC1785CT-ND◆§•	—	.97	3.50	8.95	PCC1785TR-ND◆§	4,000	8.95/M	ECJ-1VB1H123K
		50	15000pF	±10%	0.80	PCC1786CT-ND◆§•	—	.97	3.50	8.95	PCC1786TR-ND◆§	4,000	8.95/M	ECJ-1VB1H153K
		50	.022µF	±10%	0.80	PCC2282CT-ND◆	—	.97	3.50	8.95	PCC2282TR-ND◆	4,000	8.95/M	ECJ-1VB1H223K
		50	.027µF	±10%	0.80	PCC2283CT-ND◆	.22	1.35	4.86	12.42	PCC2283TR-ND◆	4,000	12.42/M	ECJ-1VB1H273K
		50	.033µF	±10%	0.80	PCC2284CT-ND◆	.22	1.35	4.86	12.42	PCC2284TR-ND◆	4,000	12.42/M	ECJ-1VB1H333K
		50	.039µF	±10%	0.80	PCC2285CT-ND◆	.22	1.35	4.86	12.42	PCC2285TR-ND◆	4,000	12.42/M	ECJ-1VB1H393K
		50	.047µF	±10%	0.80	PCC2286CT-ND◆	.22	1.35	4.86	12.42	PCC2286TR-ND◆	4,000	12.42/M	ECJ-1VB1H473K
		50	.1µF	±10%	0.80	PCC2398CT-ND◆	.29	1.84	6.61	16.88	PCC2398TR-ND◆	4,000	16.89/M	ECJ-1VB1H104K
		25	10000pF	±10%	0.80	PCC1763CT-ND◆	—	.87	3.11	7.96	PCC1763TR-ND◆	4,000	7.96/M	ECJ-1VB1E103K
		25	12000pF	±10%	0.80	PCC1764CT-ND◆	.17	1.05	3.79	9.68	PCC1764TR-ND◆	4,000	9.69/M	ECJ-1VB1E123K
		25	15000pF	±10%	0.80	PCC1765CT-ND◆	.17	1.05	3.79	9.68	PCC1765TR-ND◆	4,000	9.69/M	ECJ-1VB1E153K
		25	18000pF	±10%	0.80	PCC1766CT-ND◆§•	1.05	3.79	9.68	13.68	PCC1766TR-ND◆§	4,000	9.69/M	ECJ-1VB1E183K
		25	22000pF	±10%	0.80	PCC1767CT-ND◆§•	—	2.77	7.08	10.01	PCC1767TR-ND◆§	4,000	7.09/M	ECJ-1VB1E223K
		25	27000pF	±10%	0.80	PCC1768CT-ND◆§•	1.14	4.09	10.44	14.76	PCC1768TR-ND◆§	4,000	10.45/M	ECJ-1VB1E273K
		25	33000pF	±10%	0.80	PCC1769CT-ND◆§•	1.14	4.09	10.44	14.76	PCC1769TR-ND◆§	4,000	10.45/M	ECJ-1VB1E333K
		25	39000pF	±10%	0.80	PCC1770CT-ND◆§•	1.14	4.09	10.44	14.76	—	—	—	ECJ-1VB1E393K
		25	47000pF	±10%	0.80	PCC1771CT-ND◆§•	1.14	4.09	10.44	14.76	PCC1771TR-ND◆§	4,000	10.45/M	ECJ-1VB1E473K
		25	.056µF	±10%	0.80	PCC2278CT-ND◆	.22	1.38	4.96	12.67	PCC2278TR-ND◆	4,000	12.68/M	ECJ-1VB1E563K
		25	.068µF	±10%	0.80	PCC2279CT-ND◆	.22	1.38	4.96	12.67	PCC2279TR-ND◆	4,000	12.68/M	ECJ-1VB1E683K
		25	.082µF	±10%	0.80	PCC2280CT-ND◆	.22	1.38	4.96	12.67	PCC2280TR-ND◆	4,000	12.68/M	ECJ-1VB1E823K
		25	.1µF	±10%	0.80	PCC2277CT-ND◆	—	.42	1.51	3.86	PCC2277TR-ND◆	4,000	3.87/M	ECJ-1VB1E104K
		16	10000pF	±10%	0.80	PCC1750CT-ND◆	.17	1.08	3.89	9.94	PCC1750TR-ND◆	4,000	9.94/M	ECJ-1VB1C103K
		16	12000pF	±10%	0.80	PCC1751CT-ND◆	.17	1.08	3.89	9.94	PCC1751TR-ND◆	4,000	9.94/M	ECJ-1VB1C123K
		16	15000pF	±10%	0.80	PCC1752CT-ND◆	.17	1.08	3.89	9.94	—	—	—	ECJ-1VB1C153K
		16	18000pF	±10%	0.80	PCC1753CT-ND◆	.17	1.08	3.89	9.94	PCC1753TR-ND◆	4,000	9.94/M	ECJ-1VB1C183K
		16	22000pF	±10%	0.80	PCC1754CT-ND◆	.17	1.08	3.89	9.94	PCC1754TR-ND◆	4,000	9.94/M	ECJ-1VB1C223K
		16	27000pF	±10%	0.80	PCC1755CT-ND◆	.17	1.08	3.89	9.94	—	—	—	ECJ-1VB1C273K
		16	33000pF	±10%	0.80	PCC1756CT-ND◆	.17	1.08	3.89	9.94	PCC1756TR-ND◆	4,000	9.94/M	ECJ-1VB1C333K
		16	39000pF	±10%	0.80	PCC1757CT-ND◆	.17	1.08	3.89	9.94	PCC1757TR-ND◆	4,000	9.94/M	ECJ-1VB1C393K
		16	47000pF	±10%	0.80	PCC1758CT-ND◆	—	.97	3.49	8.92	PCC1758TR-ND◆	4,000	8.93/M	ECJ-1VB1C473K
		16	56000pF	±10%	0.80	PCC1759CT-ND◆§•	.17	1.08	3.89	9.94	PCC1759TR-ND◆§	4,000	9.94/M	ECJ-1VB1C563K
		16	68000pF	±10%	0.80	PCC1760CT-ND◆§•	.17	1.08	3.89	9.94	PCC1760TR-ND◆§	4,000	9.94/M	ECJ-1VB1C683K
		16	82000pF	±10%	0.80	PCC1761CT-ND◆§•	.17	1.08	3.89	9.94	PCC1761TR-ND◆§	4,000	9.94/M	ECJ-1VB1C823K
		16	.1µF	±10%	0.80	PCC1762CT-ND◆§•	—	.45	1.61	4.12	PCC1762TR-ND◆§	4,000	4.12/M	ECJ-1VB1C104K

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206 and 1210 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	10	100	500		Qty.	Pricing	
0603	X7R	10	1µF	±10%	0.45	PCC2427CT-ND◆	.39	2.46	12.32	29.92	—	—	—	ECJ-BVB1A105K
		6.3	1µF	±10%	0.45	PCC2426CT-ND◆	.39	2.46	12.32	29.92	—	—	—	ECJ-BVB0J105K
0603	X5R	25	1µF	±10%	0.80	PCC2422CT-ND◆	.32	1.99	7.16	18.29	PCC2422TR-ND◆	4,000	18.29/M	ECJ-1VB1E105K
		16	1.0µF	±10%	0.80	PCC2224CT-ND◆	.23	1.42	5.09	13.02	PCC2224TR-ND◆	4,000	13.02/M	ECJ-1VB1C105K
		10	.12µF	±10%	0.80	PCC1906CT-ND◆§•	.35	2.68	15.40	44.19	PCC1906TR-ND◆§	4,000	49.55/M	ECJ-1VB1A124K
		10	.15µF	±10%	0.80	PCC1748CT-ND◆§•	.17	1.08	3.89	9.94	PCC1748TR-ND◆§	4,000	9.94/M	ECJ-1VB1A154K
		10	.18µF	±10%	0.80	PCC1907CT-ND◆§•	.36	2.79	16.02	45.97	PCC1907TR-ND◆§	4,000	51.54/M	ECJ-1VB1A184K
		10	.22µF	±10%	0.80	PCC1749CT-ND◆§•	.25	1.59	5.73	14.65	PCC1749TR-ND◆§	4,000	14.65/M	ECJ-1VB1A224K
		10	.33µF	±10%	0.80	PCC2274CT-ND◆	.25	1.59	5.73	14.65	PCC2274TR-ND◆	4,000	14.65/M	ECJ-1VB1A334K
		10	.47µF	±10%	0.80	PCC2275CT-ND◆	.25	1.59	5.73	14.65	PCC2275TR-ND◆	4,000	14.65/M	ECJ-1VB1A474K
		10	.68µF	±10%	0.80	PCC2276CT-ND◆	.29	1.81	6.52	16.65	PCC2276TR-ND◆	4,000	16.66/M	ECJ-1VB1A684K
		10	1µF	±10%	0.80	PCC2174CT-ND◆	—	.89	3.20	8.19	PCC2174TR-ND◆	4,000	8.19/M	ECJ-1VB1A105K
		10	2.2µF	±20%	0.80	PCC2365CT-ND◆	.52	3.23	11.63	29.72	PCC2365TR-ND◆	4,000	29.72/M	ECJ-1VB1A225M
		10	2.2µF	±10%	0.80	PCC2397CT-ND◆	.60	3.73	13.41	34.27	PCC2397TR-ND◆	4,000	34.27/M	ECJ-1VB1A225K
		10	10µF	±20%	0.80	PCC2479CT-ND◆	.56	5.01	31.29	100.13	PCC2479TR-ND◆	4,000	106.39/M	ECJ-1VB1A106M
		6.3	.27µF	±10%	0.80	PCC1908CT-ND◆	.57	3.57	12.83	32.80	PCC1908TR-ND◆	4,000	32.80/M	ECJ-1VB0J274K
		6.3	.33µF	±10%	0.80	PCC1909CT-ND◆	.57	3.57	12.83	32.80	PCC1909TR-ND◆	4,000	32.80/M	ECJ-1VB0J334K
		6.3	.39µF	±10%	0.80	PCC1910CT-ND◆	.46	3.58	20.56	58.99	—	—	—	ECJ-1VB0J394K
		6.3	.47µF	±10%	0.80	PCC1911CT-ND◆	.25	1.59	5.73	14.65	PCC1911TR-ND◆	4,000	14.65/M	ECJ-1VB0J474K
		6.3	.68µF	±10%	0.80	PCC1913CT-ND◆	.25	1.59	5.73	14.65	PCC1913TR-ND◆	4,000	14.65/M	ECJ-1VB0J684K
		6.3	1µF	±10%	0.80	PCC1915CT-ND◆§•	.20	1.24	4.47	11.43	PCC1915TR-ND◆§	4,000	11.43/M	ECJ-1VB0J105K
		6.3	2.2µF	±10%	0.80	PCC2273CT-ND◆	.51	3.18	11.45	29.26	PCC2273TR-ND◆	4,000	29.26/M	ECJ-1VB0J225K
		6.3	2.2µF	±10%	0.80	PCC13494CT-ND◆†	.42	3.23	18.57	53.28	PCC13494TR-ND◆†	4,000	59.74/M	ECJ-1VBFJ225K
		6.3	4.7µF	±10%	0.80	PCC2396CT-ND◆	.59	3.68	13.24	33.83	PCC2396TR-ND◆	4,000	33.84/M	ECJ-1VB0J475K
		6.3	4.7µF	±20%	0.80	PCC2318CT-ND◆	.59	3.68	13.24	33.83	PCC2318TR-ND◆	4,000	33.84/M	ECJ-1VB0J475M
		6.3	10µF	±20%	0.80	PCC2395CT-ND◆	.45	3.97	24.84	79.49	PCC2395TR-ND◆	4,000	84.46/M	ECJ-1VB0J106M
		4.0	10µF	±20%	0.80	PCC2367CT-ND◆	.56	5.01	32.89	112.11	PCC2367TR-ND◆	4,000	112.11/M	ECJ-1VB0G106M
	X5S	25	1.0µF	±20%	0.80	PCC2354CT-ND◆	.38	2.96	17.01	48.82	PCC2354TR-ND◆	4,000	54.75/M	ECJ-1V41E105M
	Y5V	50	1500pF	+80%/-20%	0.80	PCC1796CT-ND§	—	.70	4.75	16.08	—	—	—	ECU-V1H152ZFV
		50	10000pF	+80%/-20%	0.80	PCC1801CT-ND◆	—	.95	3.40	8.69	PCC1801TR-ND◆	4,000	8.70/M	ECJ-1VF1H103Z
		50	15000pF	+80%/-20%	0.80	PCC1802CT-ND	.40	2.49	8.95	22.86	PCC1802TR-ND	4,000	22.87/M	ECJ-1VF1H153Z
		50	22000pF	+80%/-20%	0.80	PCC1803CT-ND◆	—	.95	3.40	8.69	—	—	—	ECJ-1VF1H223Z
		50	33000pF	+80%/-20%	0.80	PCC1804CT-ND	.52	3.24	11.66	29.81	PCC1804TR-ND	4,000	29.81/M	ECJ-1VF1H333Z
		50	47000pF	+80%/-20%	0.80	PCC1805CT-ND◆	—	.95	3.40	8.69	—	—	—	ECJ-1VF1H473Z
		50	68000pF	+80%/-20%	0.80	PCC2152CT-ND◆	.60	3.73	13.41	34.27	PCC2152TR-ND◆	4,000	34.27/M	ECJ-1VF1H683Z
		50	.1µF	+80%/-20%	0.80	PCC2153CT-ND◆	—	.67	2.41	6.16	PCC2153TR-ND◆	4,000	6.17/M	ECJ-1VF1H104Z
		25	68000pF	+80%/-20%	0.80	PCC1793CT-ND◆	.60	3.73	13.41	34.27	PCC1793TR-ND◆	4,000	34.27/M	ECJ-1VF1E683Z
		25	.1µF	+80%/-20%	0.80	PCC1794CT-ND◆	—	.45	1.61	4.12	—	—	—	ECJ-1VF1E104Z
		16	.15µF	+80%/-20%	0.80	PCC1789CT-ND◆	.55	3.43	12.35	31.56	PCC1789TR-ND◆	4,000	31.56/M	ECJ-1VF1C154Z
		16	.22µF	+80%/-20%	0.80	PCC1790CT-ND◆	.19	1.19	4.28	10.93	—	—	—	ECJ-1VF1C224Z
		16	.33µF	+80%/-20%	0.80	PCC1791CT-ND◆	.39	2.51	12.55	30.48	PCC1791TR-ND◆	4,000	35.86/M	ECJ-1VF1C334Z
		16	.47µF	+80%/-20%	0.80	PCC1792CT-ND◆	—	.97	3.49	8.92	PCC1792TR-ND◆	4,000	8.93/M	ECJ-1VF1C474Z
		10	.68µF	+80%/-20%	0.80	PCC2154CT-ND◆	.37	2.88	16.58	47.59	PCC2154TR-ND◆	4,000	53.36/M	ECJ-1VF1A684Z
		10	1µF	+80%/-20%	0.80	PCC1787CT-ND◆	—	.99	3.57	9.13	PCC1787TR-ND◆	4,000	9.13/M	ECJ-1VF1A105Z
		6.3	2.2µF	+80%/-20%	0.80	PCC2181CT-ND◆	.38	2.42	12.10	29.38	PCC2181TR-ND◆	4,000	34.56/M	ECJ-1VF0J225Z
	F	25	1µF	±80%/-20%	0.80	PCC2399CT-ND◆	.23	1.46	5.25	13.41	PCC2399TR-ND◆	4,000	13.41/M	ECJ-1VF1E105Z
		16	1µF	+80%/-20%	0.80	PCC2287CT-ND◆	.25	1.57	5.63	14.40	PCC2287TR-ND◆	4,000	14.40/M	ECJ-1VF1C105Z
		10	2.2µF	+80%/-20%	0.80	PCC2229CT-ND◆	.39	2.49	12.47	30.29	PCC2229TR-ND◆	4,000	35.64/M	ECJ-1VF1A225Z
0612	X7R	50	15000pF	±10%	0.85	PCC2173CT-ND◆	.38	3.36	21.01	67.22	PCC2173TR-ND◆	4,000	71.42/M	ECY-39RH153KV
		16	.33µF	±10%	0.85	PCC2185CT-ND◆	1.21	10.72	72.82	293.31	PCC2185TR-ND◆	4,000	283.20/M	ECY-39RC334KV
	X5R	50	.1µF	±10%	0.85	PCC2313CT-ND◆	.51	3.95	22.73	65.22	—	—	—	ECY-39RH104KV
0805	NP0	200	15pF	±5%	0.85	PCC1972CT-ND◆	.53	3.39	16.93	41.12	PCC1972TR-ND◆	4,000	48.38/M	ECJ-2VC2D150J
		200	22pF	±5%	0.85	PCC1973CT-ND◆	.53	3.39	16.93	41.12	PCC1973TR-ND◆	4,000	48.38/M	ECJ-2VC2D220J
		200	33pF	±5%	0.85	PCC1974CT-ND◆	.53	3.39	16.93	41.12	PCC1974TR-ND◆	4,000	48.38/M	ECJ-2VC2D330J
		200	68pF	±5%	1.25	PCC2440CT-ND◆	.34	2.64	15.15	43.48	PCC2440TR-ND◆	3,000	52.70/M	ECJ-2FC2D680J
		200	68pF	±5%	1.25	PCC1976CT-ND◆	.24	2.14	13.39	42.85	—	—	—	ECJ-2YC2D680J
		200	100pF	±5%	1.25	PCC2441CT-ND◆	.34	2.64	15.15	43.48	PCC2441TR-ND◆	3,000	52.70/M	ECJ-2FC2D101J
		200	150pF	±5%	1.25	PCC2442CT-ND◆	.34	2.64	15.15	43.48	—	—	—	ECJ-2FC2D151J
		200	150pF	±5%	1.25	PCC1978CT-ND◆	.24	2.14	13.39	42.85	—	—	—	ECJ-2YC2D151J
		200	330pF	±5%	1.25	PCC2444CT-ND◆	.34	2.64	15.15	43.48	PCC2444TR-ND◆	3,000	52.70/M	ECJ-2FC2D331J
		100	10pF	±0.5pF	0.85	PCC1958CT-ND◆	.46	2.92	14.59	35.43	PCC1958TR-ND◆	4,000	41.68/M	ECJ-2VC2A100D
		100	15pF	±5%	0.85	PCC1959CT-ND◆	.46	2.92	14.59	35.43	PCC1959TR-ND◆	4,000	41.68/M	ECJ-2VC2A150J
		100	33pF	±5%	0.85	PCC1961CT-ND◆	.46	2.92	14.59	35.43	PCC1961TR-ND◆	4,000	41.68/M	ECJ-2VC2A330J
		100	47pF	±5%	0.85	PCC1962CT-ND◆	.46	2.92	14.59	35.43	PCC1962TR-ND◆	4,000	41.68/M	ECJ-2VC2A470J
		100	68pF	±5%	0.85	PCC1963CT-ND◆	.51	3.24	16.18	39.29	—	—	—	ECJ-2VC2A680J
		100	100pF	±5%	0.85	PCC1964CT-ND◆	.51	3.24	16.18	39.29	PCC1964TR-ND◆	4,000	46.22/M	ECJ-2VC2A101J
		100	150pF	±5%	0.85	PCC1965CT-ND◆	.51	3.24	16.18	39.29	—	—	—	ECJ-2VC2A151J
		100	220pF	±5%	0.85	PCC1966CT-ND◆	.51	3.24	16.18	39.29	—	—	—	ECJ-2VC2A221J
		100	330pF	±5%	0.85	PCC1967CT-ND◆	.51	3.24	16.18	39.29	PCC1967TR-ND◆	4,000	46.22/M	ECJ-2VC2A331J
		100	680pF	±5%	0.85	PCC1969CT-ND◆	.51	3.24	16.18	39.29	—	—	—	ECJ-2VC2A681J
		100	1000pF	±5%	0.85	PCC1970CT-ND◆	.37	2.85	16.39	47.04	—	—	—	ECJ-2VC2A102J
		50	.5pF	±0.25pF	0.60	PCC0R5CNCT-ND◆§•	.48	2.97	10.69	27.32	—	—	—	ECJ-2VC1H0R5C
		50	1.0pF	±0.25pF	0.60	PCC010CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC010CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H010C
		50	1.5pF	±0.25pF	0.60	PCC1R5CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC1R5CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H1R5C
		50	2.0pF	±0.25pF	0.60	PCC020CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC020CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H020C
		50	4.0pF	±0.25pF	0.60	PCC040CNCT-ND◆§•	.48	2.97	10.69	27.32	—	—	—	ECJ-2VC1H040C
		50	5.0pF	±0.25pF	0.60	PCC050CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC050CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H050C
		50	6.0pF	±0.5pF	0.60	PCC060CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC060CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H060D
		50	7.0pF	±0.5pF	0.60	PCC070CNCT-ND◆§•	.48	3.00	10.79	27.58	PCC070CNTR-ND◆§	5,000	27.58/M	ECJ-2VC1H070D
		50	8.0pF	±0.5pF	0.60	PCC080CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC080CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H080D
		50	9.0pF	±0.5pF	0.60	PCC090CNCT-ND§•	.48	2.97	10.69	27.32	PCC090CNTR-ND§	5,000	27.33/M	ECJ-2VC1H090D
		50	10pF	±0.5pF	0.60	PCC100CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC100CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H100D
		50	12pF	±5%	0.60	PCC120CNCT-ND◆	.48	2.97	10.69	27.32	PCC120CNTR-ND◆	5,000	27.33/M	ECJ-2VC1H120J
		50	15pF	±5%	0.60	PCC150CNCT-ND◆§•	.48	2.97	10.69	27.32	PCC150CNTR-ND◆§	5,000	27.33/M	ECJ-2VC1H150J
		50	18pF	±5%	0.60	PCC180CNCT-ND◆	.48	2.97	10.69	27.32	PCC180CNTR-ND◆	5,000	27.33/M	ECJ-2VC1H180J
		50	22pF	±5%	0.60	PCC220CNCT-ND◆§•	.36	2.24	8.06	20.61	PCC220CNTR-ND◆§	5,000	20.61/M	ECJ-2VC1H220J
		50	27pF	±5%	0.60	PCC270CGCT-ND◆	.24	1.51	5.45	13.92	PCC270CGTR-ND◆	5,000	13.92/M	ECJ-2VC1H270J
		50	33pF	±5%	0.60	PCC330CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC330CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H330J
		50	39pF	±5%	0.60	PCC390CGCT-ND◆	.24	1.51	5.45	13.92	PCC390CGTR-ND◆	5,000	13.92/M	ECJ-2VC1H390J
		50	47pF	±5%	0.60	PCC470CGCT-ND◆§•	.18	1.13	4.05	10.35	PCC470CGTR-ND◆§	5,000	10.35/M	ECJ-2VC1H470J
		50	56pF	±5%	0.60	PCC560CGCT-ND◆	.24	1.51	5.45	13.92	PCC560CGTR-ND◆	5,000	13.92/M	ECJ-2VC1H560J

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206 and 1210 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	10	100	500		Qty.	Pricing	
0805	NP0	50	68pF	±5%	0.60	PCC680CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC680CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H680J
		50	82pF	±5%	0.60	PCC820CGCT-ND◆	.24	1.51	5.45	13.92	PCC820CGTR-ND◆	5,000	13.92/M	ECJ-2VC1H820J
		50	100pF	±5%	0.60	PCC101CGCT-ND§•	—	.99	3.57	9.13	PCC101CGTR-ND§	5,000	9.14/M	ECJ-2VC1H101J
		50	120pF	±5%	0.60	PCC121CGCT-ND◆§•	.24	1.51	5.45	13.92	—	—	—	ECJ-2VC1H121J
		50	150pF	±5%	0.60	PCC151CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC151CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H151J
		50	180pF	±5%	0.60	PCC181CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC181CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H181J
		50	220pF	±5%	0.60	PCC221CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC221CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H221J
		50	270pF	±5%	0.60	PCC271CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC271CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H271J
		50	330pF	±5%	0.60	PCC331CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC331CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H331J
		50	390pF	±5%	0.60	PCC391CGCT-ND◆§•	.24	1.51	5.45	13.92	—	—	—	ECJ-2VC1H391J
		50	470pF	±5%	0.60	PCC471CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC471CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H471J
		50	560pF	±5%	0.60	PCC561CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC561CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H561J
		50	680pF	±5%	0.60	PCC681CGCT-ND◆§•	.24	1.51	5.45	13.92	PCC681CGTR-ND◆§	5,000	13.92/M	ECJ-2VC1H681J
		50	820pF	±5%	0.60	PCC821CGCT-ND◆§•	.35	2.19	7.88	20.13	PCC821CGTR-ND◆§	5,000	20.13/M	ECJ-2VC1H821J
		50	1000pF	±5%	0.60	PCC102CGCT-ND◆§•	.25	1.59	5.72	14.63	PCC102CGTR-ND◆§	5,000	14.63/M	ECJ-2VC1H102J
		50	1200pF	±5%	0.60	PCC2155CT-ND◆	.37	2.86	16.46	47.22	PCC2155TR-ND◆	5,000	52.95/M	ECJ-2VC1H122J
		50	1500pF	±5%	0.60	PCC2156CT-ND◆	.37	2.86	16.46	47.22	PCC2156TR-ND◆	5,000	52.95/M	ECJ-2VC1H152J
		50	1800pF	±5%	0.60	PCC2157CT-ND◆	.50	3.81	21.92	62.90	PCC2157TR-ND◆	5,000	70.53/M	ECJ-2VC1H182J
		50	2200pF	±5%	0.60	PCC2158CT-ND◆	.48	2.98	10.73	27.42	PCC2158TR-ND◆	5,000	27.42/M	ECJ-2VC1H222J
		50	2700pF	±5%	0.60	PCC2159CT-ND◆	.50	3.81	21.92	62.90	PCC2159TR-ND◆	4,000	70.53/M	ECJ-2VC1H272J
	X7R	200	220pF	±10%	0.85	PCC1993CT-ND◆	.36	2.31	11.56	28.08	PCC1993TR-ND◆	4,000	33.04/M	ECJ-2VB2D221K
		200	330pF	±10%	0.85	PCC1994CT-ND◆	.36	2.31	11.56	28.08	PCC1994TR-ND◆	4,000	33.04/M	ECJ-2VB2D331K
		200	470pF	±10%	0.85	PCC1995CT-ND◆	.36	2.31	11.56	28.08	PCC1995TR-ND◆	4,000	33.04/M	ECJ-2VB2D471K
		200	1000pF	±10%	0.85	PCC1997CT-ND◆	.36	2.31	11.56	28.08	PCC1997TR-ND◆	4,000	33.04/M	ECJ-2VB2D102K
		200	1500pF	±10%	0.85	PCC1998CT-ND◆	.38	2.39	11.94	29.00	PCC1998TR-ND◆	4,000	34.12/M	ECJ-2VB2D152K
		200	2200pF	±10%	0.85	PCC1999CT-ND◆	.38	2.39	11.94	29.00	PCC1999TR-ND◆	4,000	34.12/M	ECJ-2VB2D222K
		200	3300pF	±10%	0.85	PCC2000CT-ND◆	.38	2.39	11.94	29.00	PCC2000TR-ND◆	4,000	34.12/M	ECJ-2VB2D332K
		200	4700pF	±10%	0.85	PCC2001CT-ND◆	.38	2.39	11.94	29.00	PCC2001TR-ND◆	4,000	34.12/M	ECJ-2VB2D472K
		200	6800pF	±10%	1.25	PCC2445CT-ND◆	.38	2.39	11.94	29.00	—	—	—	ECJ-2FB2D682K
		200	6800pF	±10%	1.25	PCC2002CT-ND◆	.22	1.73	9.94	28.51	—	—	—	ECJ-2YB2D682K
		200	10000pF	±10%	1.25	PCC2446CT-ND◆	.53	3.39	16.93	41.12	PCC2446TR-ND◆	3,000	53.22/M	ECJ-2FB2D103K
		100	220pF	±10%	0.85	PCC1981CT-ND◆	.56	3.48	12.54	32.04	PCC1981TR-ND◆	4,000	32.04/M	ECJ-2VB2A221K
		100	680pF	±10%	0.85	PCC1984CT-ND◆	.56	3.48	12.54	32.04	PCC1984TR-ND◆	4,000	32.04/M	ECJ-2VB2A681K
		100	1500pF	±10%	0.85	PCC1986CT-ND◆	.56	3.48	12.54	32.04	PCC1986TR-ND◆	4,000	32.04/M	ECJ-2VB2A152K
		100	2200pF	±10%	0.85	PCC1987CT-ND◆	.56	3.48	12.54	32.04	PCC1987TR-ND	4,000	32.04/M	ECJ-2VB2A222K
		100	3300pF	±10%	0.85	PCC1988CT-ND◆	.56	3.48	12.54	32.04	PCC1988TR-ND◆	4,000	32.04/M	ECJ-2VB2A332K
		100	4700pF	±10%	0.85	PCC1989CT-ND◆	.35	2.25	11.26	27.35	PCC1989TR-ND◆	4,000	32.18/M	ECJ-2VB2A472K
		100	6800pF	±10%	0.85	PCC1990CT-ND◆	.35	2.25	11.26	27.35	PCC1990TR-ND◆	4,000	32.18/M	ECJ-2VB2A682K
		100	10000pF	±10%	0.85	PCC1991CT-ND◆	.48	3.07	15.34	37.26	PCC1991TR-ND◆	4,000	43.84/M	ECJ-2VB2A103K
		100	15000pF	±10%	1.25	PCC2447CT-ND◆	.34	2.60	14.97	42.95	PCC2447TR-ND◆	3,000	52.06/M	ECJ-2FB2A153K
		100	15000pF	±10%	1.25	PCC1992CT-ND◆	.24	2.11	13.18	42.16	PCC1992TR-ND◆	2,000	47.43/M	ECJ-2YB2A153K
		50	1000pF	±10%	0.60	PCC102BNCT-ND◆§•	—	.72	2.59	6.62	PCC102BNTR-ND◆§	5,000	6.63/M	ECJ-2VB1H102K
		50	1500pF	±10%	0.60	PCC152BNCT-ND◆§•	.26	1.65	5.93	15.16	—	—	—	ECJ-2VB1H152K
		50	1800pF	±10%	0.60	PCC182BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC182BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H182K
		50	2200pF	±10%	0.60	PCC222BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC222BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H222K
		50	2700pF	±10%	0.60	PCC272BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC272BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H272K
		50	3300pF	±10%	0.60	PCC332BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC332BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H332K
		50	3900pF	±10%	0.60	PCC392BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC392BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H392K
		50	4700pF	±10%	0.60	PCC472BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC472BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H472K
		50	5600pF	±10%	0.60	PCC562BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC562BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H562K
		50	6800pF	±10%	0.60	PCC682BNCT-ND◆§•	.26	1.65	5.93	15.16	PCC682BNTR-ND◆§	5,000	15.16/M	ECJ-2VB1H682K
		50	8200pF	±10%	0.60	PCC822BNCT-ND◆§•	.26	1.65	5.93	15.16	—	—	—	ECJ-2VB1H822K
		50	10000pF	±10%	0.60	PCC103BNCT-ND◆§•	.25	1.59	5.73	14.65	PCC103BNTR-ND◆§	5,000	14.66/M	ECJ-2VB1H103K
		50	12000pF	±10%	0.60	PCC123BGCT-ND◆§•	.26	1.65	5.93	15.16	PCC123BGTR-ND◆§	5,000	15.16/M	ECJ-2VB1H123K
		50	15000pF	±10%	0.60	PCC153BGCT-ND◆§•	.26	1.65	5.93	15.16	PCC153BGTR-ND◆§	5,000	15.16/M	ECJ-2VB1H153K
		50	18000pF	±10%	0.60	PCC183BGCT-ND◆§•	.26	1.65	5.93	15.16	PCC183BGTR-ND◆§	5,000	15.16/M	ECJ-2VB1H183K
		50	22000pF	±10%	0.60	PCC223BGCT-ND◆§•	—	.99	3.57	9.13	PCC223BGTR-ND◆§	5,000	9.14/M	ECJ-2VB1H223K
		50	27000pF	±10%	0.85	PCC1833CT-ND◆§•	.31	1.92	6.90	17.64	PCC1833TR-ND◆§	4,000	17.64/M	ECJ-2VB1H273K
		50	33000pF	±10%	0.85	PCC1834CT-ND◆§•	.31	1.92	6.90	17.64	PCC1834TR-ND◆§	4,000	17.64/M	ECJ-2VB1H333K
		50	39000pF	±10%	0.85	PCC1835CT-ND◆§•	.31	1.92	6.90	17.64	PCC1835TR-ND◆§	4,000	17.64/M	ECJ-2VB1H393K
		50	47000pF	±10%	1.25	PCC2448CT-ND◆	.20	1.24	4.47	11.43	PCC2448TR-ND◆	3,000	12.43/M	ECJ-2FB1H473K
		50	56000pF	±10%	1.25	PCC2449CT-ND◆	.42	2.62	9.43	24.10	PCC2449TR-ND◆	3,000	26.20/M	ECJ-2FB1H563K
		50	56000pF	±10%	1.25	PCC1837CT-ND◆§•	.42	2.65	9.52	24.33	—	—	—	ECJ-2YB1H563K
		50	68000pF	±10%	1.25	PCC2450CT-ND◆	.42	2.62	9.43	24.10	PCC2450TR-ND◆	3,000	26.20/M	ECJ-2FB1H683K
		50	82000pF	±10%	1.25	PCC2451CT-ND◆	.42	2.62	9.43	24.10	PCC2451TR-ND◆	3,000	26.20/M	ECJ-2FB1H823K
		50	82000pF	±10%	1.25	PCC1839CT-ND◆§•	.42	2.65	9.52	24.33	PCC1839TR-ND◆§	2,000	26.45/M	ECJ-2YB1H823K
		50	.1µF	±10%	1.25	PCC2452CT-ND◆	—	1.03	3.69	9.43	PCC2452TR-ND◆	3,000	10.25/M	ECJ-2FB1H104K
		25	39000pF	±10%	0.85	PCC1819CT-ND◆	.31	1.95	7.00	17.89	PCC1819TR-ND◆	4,000	17.90/M	ECJ-2VB1E393K
		25	47000pF	±10%	0.85	PCC1820CT-ND◆	.40	2.49	8.95	22.86	PCC1820TR-ND◆	4,000	22.87/M	ECJ-2VB1E473K
		25	56000pF	±10%	0.85	PCC1825CT-ND◆	.40	2.49	8.95	22.86	—	—	—	ECJ-2VB1E563K
		25	82000pF	±10%	0.85	PCC1827CT-ND	.40	2.49	8.95	22.86	PCC1827TR-ND	4,000	22.87/M	ECJ-2VB1E823K
		25	.1µF	±10%	0.85	PCC1828CT-ND◆	—	.99	3.57	9.13	PCC1828TR-ND◆	4,000	9.13/M	ECJ-2VB1E104K
		25	.12µF	±10%	1.25	PCC1829CT-ND◆§•	.53	3.36	16.79	40.77	PCC1829TR-ND◆§	2,000	52.76/M	ECJ-2YB1E124K
		25	.15µF	±10%	1.25	PCC2453CT-ND◆	.53	3.30	11.86	30.31	PCC2453TR-ND◆	3,000	32.95/M	ECJ-2FB1E154K
		25	.18µF	±10%	1.25	PCC1831CT-ND◆§•	.33	2.53	14.53	41.70	PCC1831TR-ND◆§	2,000	50.54/M	ECJ-2YB1E184K
		16	56000pF	±10%	0.85	PCC1809CT-ND◆	.40	2.51	9.04	23.09	—	—	—	ECJ-2VB1C563K
		16	68000pF	±10%	0.85	PCC1810CT-ND◆	.40	2.51	9.04	23.09	PCC1810TR-ND◆	4,000	23.10/M	ECJ-2VB1C683K
		16	82000pF	±10%	0.85	PCC1811CT-ND◆	.40	2.51	9.04	23.09	PCC1811TR-ND◆	4,000	23.10/M	ECJ-2VB1C823K
		16	.1µF	±10%	0.85	PCC1812CT-ND◆	.40	2.49	8.95	22.86	PCC1812TR-ND◆	4,000	22.87/M	ECJ-2VB1C104K
		16	.12µF	±10%	0.85	PCC1813CT-ND◆	.55	3.48	17.39	42.23	PCC1813TR-ND◆	4,000	49.68/M	ECJ-2VB1C124K
		16	.15µF	±10%	0.85	PCC1814CT-ND◆	.53	3.30	11.86	30.31	PCC1814TR-ND◆	4,000	30.32/M	ECJ-2VB1C154K
		16	.18µF	±10%	0.85	PCC1815CT-ND◆	.37	3.26	20.36	65.15	PCC1815TR-ND◆	4,000	69.23/M	ECJ-2VB1C184K
		16	.22µF	±10%	0.85	PCC1816CT-ND◆	.53	3.30	11.86	30.31	PCC1816TR-ND◆	4,000	30.32/M	ECJ-2VB1C224K
		16	.27µF	±10%	1.25	PCC1916CT-ND◆	.39	3.50	21.87	69.98	—	—	—	ECJ-2YB1C274K
		16	.33µF	±10%	1.25	PCC2455CT-ND◆	.56	3.48	12.52	31.99	—	—	—	ECJ-2FB1C334K
		16	.47µF	±10%	1.25	PCC2456CT-ND◆	.52	3.23	11.63	29.72	PCC2456TR-ND◆	3,000	32.30/M	ECJ-2FB1C474K
	X5R	25	1µF	±10%	1.25	PCC2319CT-ND◆	.44	2.78	13.91	33.78	PCC2319TR-ND◆	3,000	43.72/M	ECJ-2FB1E105K
		25	2.2µF	±10%	0.85	PCC2481CT-ND◆	.43	3.78	23.64	75.65	PCC2481TR-ND◆	4,000	80.38/M	ECJ-GVB1E225K
		25	2.2µF	±10%	1.25	PCC2320CT-ND◆	.43	3.29	18.94	54.35	PCC2320TR-ND◆	3,000	65.88/M	ECJ-2FB1E225K

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							1	10	100	500		Qty.	Pricing	
0805	X5R	25	4.7µF	±20%	1.25	PCC2321CT-ND◆	.49	4.36	27.27	87.26	PCC2321TR-ND◆	3,000	98.18/M	ECJ-2FB1E475M
		16	.68µF	±10%	1.25	PCC2290CT-ND◆	.39	2.46	12.32	29.92	PCC2290TR-ND◆	3,000	38.72/M	ECJ-2FB1C684K
		16	1µF	±10%	0.85	PCC2314CT-ND◆	.48	3.07	15.34	37.26	PCC2314TR-ND◆	4,000	43.84/M	ECJ-GVB1C105K
		16	1µF	±10%	1.25	PCC2249CT-ND◆	.48	3.07	15.34	37.26	PCC2249TR-ND◆	3,000	48.23/M	ECJ-2FB1C105K
		16	2.2µF	±20%	0.85	PCC2408CT-ND◆	.34	2.59	14.90	42.77	PCC2408TR-ND◆	4,000	47.96/M	ECJ-GVB1C225M
		16	2.2µF	±10%	0.85	PCC2482CT-ND◆	.40	3.56	22.25	71.20	PCC2482TR-ND◆	4,000	75.65/M	ECJ-GVB1C225K
		16	2.2µF	±10%	1.25	PCC2322CT-ND◆	.36	2.74	15.77	45.26	PCC2322TR-ND◆	3,000	54.86/M	ECJ-2FB1C225K
		16	4.7µF	±10%	1.25	PCC2323CT-ND◆	.48	4.29	26.79	85.71	PCC2323TR-ND◆	3,000	96.43/M	ECJ-2FB1C475K
		10	.56µF	±10%	1.25	PCC1918CT-ND◆	.55	4.90	32.17	109.68	PCC1918TR-ND◆	2,000	116.99/M	ECJ-2YB1A564K
		10	.68µF	±10%	1.25	PCC2289CT-ND◆	.45	2.87	14.36	34.88	PCC2289TR-ND◆	3,000	45.15/M	ECJ-2FB1A684K
		10	.82µF	±10%	1.25	PCC1919CT-ND◆	.61	5.41	35.50	121.02	PCC1919TR-ND◆	2,000	129.09/M	ECJ-2YB1A824K
		10	1µF	±10%	1.25	PCC2457CT-ND◆	.45	2.87	14.36	34.88	PCC2457TR-ND◆	3,000	45.15/M	ECJ-2FB1A105K
		10	2.2µF	±10%	1.25	PCC2483CT-ND◆	.38	3.34	20.86	66.75	—	—	—	ECJ-GVB1A225K
		10	2.2µF	±20%	1.25	PCC2175CT-ND◆	.34	2.64	15.15	43.48	PCC2175TR-ND◆	3,000	52.70/M	ECJ-2FB1A225M
		10	2.2µF	±10%	1.25	PCC2324CT-ND◆	.36	2.24	8.05	20.56	PCC2324TR-ND◆	3,000	22.35/M	ECJ-2FB1A225K
		10	3.3µF	±10%	1.25	PCC2288CT-ND◆	.43	3.29	18.94	54.35	PCC2288TR-ND◆	3,000	65.88/M	ECJ-2FB1A335K
		10	4.7µF	±20%	0.85	PCC2407CT-ND◆	.41	3.63	22.68	72.58	—	—	—	ECJ-GVB1A475M
		10	4.7µF	±10%	1.25	PCC2325CT-ND◆	.38	3.34	20.85	66.70	PCC2325TR-ND◆	3,000	75.05/M	ECJ-2FB1A475K
		10	10µF	±10%	1.25	PCC2403CT-ND◆	.67	5.98	39.27	133.89	PCC2403TR-ND◆	3,000	142.82/M	ECJ-2FB1A106K
		10	10µF	±20%	0.85	PCC2431CT-ND◆	.86	7.69	50.51	172.20	PCC2431TR-ND◆	4,000	172.20/M	ECJ-GVB1A106M
		10	22µF	±20%	1.25	PCC2480CT-ND◆	1.04	9.21	62.58	252.04	—	—	—	ECJ-2FB1A226M
		6.3	1.5µF	±10%	1.25	PCC1921CT-ND◆	.66	5.87	38.54	131.39	PCC1921TR-ND◆	2,000	140.15/M	ECJ-2YB0J155K
		6.3	2.2µF	±10%	0.85	PCC2310CT-ND◆	.34	2.64	15.15	43.48	PCC2310TR-ND◆	4,000	48.75/M	ECJ-GVB0J225K
		6.3	2.2µF	±10%	1.25	PCC2458CT-ND◆	.33	2.53	14.53	41.70	PCC2458TR-ND◆	3,000	50.54/M	ECJ-2FB0J225K
		6.3	3.3µF	±10%	1.25	PCC2459CT-ND◆	.44	3.88	24.25	77.58	PCC2459TR-ND◆	3,000	87.29/M	ECJ-2FB0J335K
		6.3	4.7µF	±20%	0.85	PCC2315CT-ND◆	.51	3.89	22.36	64.15	PCC2315TR-ND◆	4,000	71.93/M	ECJ-GVB0J475M
		6.3	4.7µF	±20%	1.25	PCC2176CT-ND◆	.46	3.51	20.18	57.92	PCC2176TR-ND◆	3,000	70.20/M	ECJ-2FB0J475M
		6.3	4.7µF	±10%	1.25	PCC2402CT-ND◆	.46	3.51	20.18	57.92	PCC2402TR-ND◆	3,000	70.20/M	ECJ-2FB0J475K
		6.3	4.7µF	±10%	0.85	PCC2406CT-ND◆	.51	3.89	22.36	64.15	—	—	—	ECJ-GVB0J475K
		6.3	10µF	±20%	0.85	PCC2405CT-ND◆	.58	5.18	32.40	103.68	—	—	—	ECJ-GVB0J106M
		6.3	10µF	±20%	1.25	PCC2225CT-ND◆	.39	2.50	12.48	30.31	PCC2225TR-ND◆	3,000	39.23/M	ECJ-2FB0J106M
		6.3	10µF	±10%	1.25	PCC2400CT-ND◆	.46	4.10	25.65	82.08	PCC2400TR-ND◆	3,000	92.34/M	ECJ-2FB0J106K
		6.3	22µF	±20%	1.25	PCC2401CT-ND◆	.97	8.68	57.02	194.40	PCC2401TR-ND◆	3,000	207.36/M	ECJ-2FB0J226M
	Y5V	50	10000pF	+80%/-20%	0.60	PCC1858CT-ND◆	.21	1.32	4.76	12.17	PCC1858TR-ND◆	5,000	12.17/M	ECJ-2VF1H103Z
		50	15000pF	+80%/-20%	0.60	PCC1859CT-ND◆	.36	2.24	8.06	20.61	PCC1859TR-ND◆	5,000	20.61/M	ECJ-2VF1H153Z
		50	22000pF	+80%/-20%	0.60	PCC1860CT-ND◆	.21	1.32	4.76	12.17	PCC1860TR-ND◆	5,000	12.17/M	ECJ-2VF1H223Z
		50	33000pF	+80%/-20%	0.60	PCC1861CT-ND◆	.36	2.24	8.06	20.61	PCC1861TR-ND◆	5,000	20.61/M	ECJ-2VF1H333Z
		50	47000pF	+80%/-20%	0.60	PCC1862CT-ND◆	.21	1.32	4.76	12.17	PCC1862TR-ND◆	5,000	12.17/M	ECJ-2VF1H473Z
		50	68000pF	+80%/-20%	0.60	PCC1863CT-ND	.48	2.97	10.69	27.32	PCC1863TR-ND	5,000	27.33/M	ECJ-2VF1H683Z
		50	.1µF	+80%/-20%	0.85	PCC1864CT-ND	.36	2.24	8.06	20.61	PCC1864TR-ND	4,000	20.61/M	ECJ-2VF1H104Z
		50	.15µF	+80%/-20%	0.85	PCC1865CT-ND◆	.42	2.65	13.23	32.13	PCC1865TR-ND◆	4,000	37.80/M	ECJ-2VF1H154Z
		50	.22µF	+80%/-20%	0.85	PCC1866CT-ND◆	.32	2.00	7.19	18.38	PCC1866TR-ND◆	4,000	18.38/M	ECJ-2VF1H224Z
		25	68000pF	+80%/-20%	0.60	PCC1852CT-ND	.48	2.97	10.69	27.32	PCC1852TR-ND	5,000	27.33/M	ECJ-2VF1E683Z
		25	.1µF	+80%/-20%	0.60	PCC1853CT-ND◆	.26	1.65	5.93	15.16	PCC1853TR-ND◆	5,000	15.16/M	ECJ-2VF1E104Z
		25	.15µF	+80%/-20%	0.60	PCC1854CT-ND	.35	2.22	11.12	27.00	—	—	—	ECJ-2VF1E154Z
		25	.22µF	+80%/-20%	0.85	PCC1855CT-ND◆	.31	1.92	6.90	17.64	—	—	—	ECJ-2VF1E224Z
		25	.33µF	+80%/-20%	1.25	PCC1856CT-ND◆	.48	3.70	21.30	61.12	PCC1856TR-ND◆	2,000	74.08/M	ECJ-2YF1E334Z
		16	.1µF	+80%/-20%	0.60	PCC1843CT-ND◆	.26	1.65	5.93	15.16	PCC1843TR-ND◆	5,000	15.16/M	ECJ-2VF1C104Z
		16	.15µF	+80%/-20%	0.60	PCC1844CT-ND	.60	3.73	13.41	34.27	PCC1844TR-ND	5,000	34.27/M	ECJ-2VF1C154Z
		16	.22µF	+80%/-20%	0.60	PCC1845CT-ND◆	.31	1.92	6.90	17.64	PCC1845TR-ND◆	5,000	17.65/M	ECJ-2VF1C224Z
		16	.33µF	+80%/-20%	0.85	PCC1846CT-ND◆	.46	2.92	14.59	35.43	PCC1846TR-ND◆	4,000	41.68/M	ECJ-2VF1C334Z
		16	.47µF	+80%/-20%	0.85	PCC1847CT-ND◆	.32	2.00	7.19	18.38	PCC1847TR-ND◆	4,000	18.38/M	ECJ-2VF1C474Z
		16	.68µF	+80%/-20%	0.85	PCC1848CT-ND◆	.34	2.13	10.66	25.89	—	—	—	ECJ-2VF1C684Z
		16	1µF	+80%/-20%	0.85	PCC1849CT-ND◆	.18	1.12	4.01	10.26	PCC1849TR-ND◆	4,000	10.26/M	ECJ-2VF1C105Z
		16	1.5µF	+80%/-20%	1.25	PCC1850CT-ND◆	.56	4.99	31.16	99.71	PCC1850TR-ND◆	2,000	112.18/M	ECJ-2YF1C155Z
		16	2.2µF	+80%/-20%	1.25	PCC2461CT-ND◆	.58	3.65	13.12	33.53	PCC2461TR-ND◆	3,000	36.45/M	ECJ-2FF1C225Z
		16	2.2µF	+80%/-20%	1.25	PCC1851CT-ND◆	.59	3.70	13.32	34.04	—	—	—	ECJ-2YF1C225Z
		16	2.2µF	+80%/-20%	0.85	PCC2410CT-ND◆	.43	2.72	13.61	33.05	PCC2410TR-ND◆	4,000	38.88/M	ECJ-GVF1C225Z
		16	4.7µF	+80%/-20%	0.85	PCC2411CT-ND◆	.42	3.24	18.63	53.46	PCC2411TR-ND◆	4,000	59.94/M	ECJ-GVF1C475Z
		10	4.7µF	+80%/-20%	1.25	PCC2462CT-ND◆	.48	3.07	15.34	37.26	PCC2462TR-ND◆	3,000	48.23/M	ECJ-2FF1A475Z
		10	4.7µF	+80%/-20%	1.25	PCC1842CT-ND◆	.20	1.78	11.13	35.60	PCC1842TR-ND◆	2,000	40.05/M	ECJ-2YF1A475Z
		10	4.7µF	+80%/-20%	0.85	PCC2409CT-ND◆	.34	2.59	14.90	42.77	PCC2409TR-ND◆	4,000	47.96/M	ECJ-GVF1A475Z
		6.3	10µF	+80%/-20%	1.25	PCC2182CT-ND◆	.51	3.24	16.18	39.29	PCC2182TR-ND◆	3,000	50.85/M	ECJ-2FF0J106Z
	F	50	1µF	+80%/-20%	1.25	PCC2404CT-ND◆	.43	2.72	13.61	33.05	PCC2404TR-ND◆	3,000	42.77/M	ECJ-2FF1H105Z
		25	1.0µF	+80%/-20%	1.25	PCC2230CT-ND◆	.49	3.05	10.98	28.06	PCC2230TR-ND◆	3,000	30.50/M	ECJ-2FF1E105Z
		16	4.7µF	+80%/-20%	1.25	PCC2232CT-ND◆	.51	3.24	16.18	39.29	PCC2232TR-ND◆	3,000	50.85/M	ECJ-2FF1C475Z
		10	10µF	+80%/-20%	1.25	PCC2233CT-ND◆	.51	3.24	16.18	39.29	PCC2233TR-ND◆	3,000	50.85/M	ECJ-2FF1A106Z
1206	NP0	200	680pF	±5%	1.15	PCC2464CT-ND◆	.79	6.98	47.43	191.05	PCC2464TR-ND◆	3,000	197.64/M	ECJ-3FC2D681J
		200	1000pF	±5%	1.15	PCC2465CT-ND◆	.79	6.98	47.43	191.05	—	—	—	ECJ-3FC2D102J
		100	1500pF	±5%	0.85	PCC2004CT-ND◆§•	.85	7.63	50.13	170.91	PCC2004TR-ND◆§	4,000	170.91/M	ECJ-3VC2A152J
		100	2200pF	±5%	0.85	PCC2005CT-ND◆§•	.85	7.63	50.13	170.91	—	—	—	ECJ-3VC2A222J
		100	3300pF	±5%	0.85	PCC2006CT-ND◆§•	.85	7.63	50.13	170.91	—	—	—	ECJ-3VC2A332J
		50	.5pF	±0.25pF	0.60	PCC0R5CCT-ND§	—	1.11	7.51	25.42	PCC0R5CTR-ND§	5,000	33.00/M	ECU-V1H0R5CCM
		50	2700pF	±5%	0.60	PCC2160CT-ND◆§•	.88	7.86	51.61	175.94	PCC2160TR-ND◆§	5,000	175.94/M	ECJ-3VC1H272J
		50	3300pF	±5%	0.60	PCC2161CT-ND◆§•	.69	6.17	40.53	138.18	PCC2161TR-ND◆§	5,000	138.18/M	ECJ-3VC1H332J
		50	3900pF	±5%	0.60	PCC2162CT-ND◆§•	.69	6.17	40.53	138.18	PCC2162TR-ND◆§	5,000	138.18/M	ECJ-3VC1H392J
		50	4700pF	±5%	0.60	PCC2163CT-ND◆§•	.69	6.17	40.53	138.18	PCC2163TR-ND◆§	5,000	138.18/M	ECJ-3VC1H472J
		50	5600pF	±5%	0.85	PCC2164CT-ND◆§•	1.01	8.91	60.50	243.67	—	—	—	ECJ-3VC1H562J
		50	6800pF	±5%	0.85	PCC2165CT-ND◆§•	1.28	11.35	77.06	310.39	—	—	—	ECJ-3VC1H682J
		50	8200pF	±5%	1.15	PCC2166CT-ND◆§•	1.36	12.00	81.53	328.40	—	—	—	ECJ-3FC1H822J
		50	10000pF	±5%	1.15	PCC2167CT-ND◆§•	1.38	11.29	90.88	371.79	PCC2167TR-ND◆§	3,000	385.56/M	ECJ-3FC1H103J
	X7R	630	1000pF	±10%	1.15	PCC2291CT-ND◆	.44	3.42	19.65	56.40	PCC2291TR-ND◆	3,000	68.36/M	ECJ-3FB2J102K
		630	4700pF	±10%	1.15	PCC2294CT-ND◆	.48	3.67	21.11	60.59	PCC2294TR-ND◆	3,000	73.44/M	ECJ-3FB2J472K
		630	.01µF	±10%	1.15	PCC2292CT-ND◆	.48	3.67	21.11	60.59	PCC2292TR-ND◆	3,000	73.44/M	ECJ-3FB2J103K
		200	15000pF	±10%	1.15	PCC2013CT-ND◆	.46	4.09	25.54	81.73	—	—	—	ECJ-3YB2D153K
		200	22000pF	±10%	1.15	PCC2467CT-ND◆	.40	3.52	21.98	70.34	PCC2467TR-ND◆	3,000	79.13/M	ECJ-3FB2D223K
		100	22000pF	±10%	1.15	PCC2468CT-ND◆	.40	3.52	21.98	70.34	—	—	—	ECJ-3FB2A223K

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
1206	X7R	100	33000pF	±10%	1.15	PCC2469CT-ND◆	.40	3.52	21.98	70.34	PCC2469TR-ND◆	3,000	79.13/M	ECJ-3FB2A333K
		100	33000pF	±10%	1.15	PCC2011CT-ND◆	.33	2.99	19.62	66.90	—	—	—	ECJ-3YB2A333K
		100	47000pF	±10%	1.15	PCC2470CT-ND◆	.48	4.25	26.57	85.02	PCC2470TR-ND◆	3,000	95.66/M	ECJ-3FB2A473K
		100	.1µF	±10%	1.60	PCC2239CT-ND◆	.47	4.17	26.08	83.46	PCC2239TR-ND◆	2,000	93.89/M	ECJ-3YB2A104K
		50	.1µF	±10%	1.00	PCC104BCT-ND◆	.26	1.62	5.81	14.86	PCC104BTR-ND◆	4,000	14.86/M	ECJ-3VB1H104K
		50	.22µF	±10%	1.60	PCC2299CT-ND◆	.40	3.08	17.70	50.79	PCC2299TR-ND◆	2,000	61.56/M	ECJ-3YB1H224K
		50	1µF	±10%	1.60	PCC2478CT-ND◆	.79	7.08	46.50	158.52	PCC2478TR-ND◆	2,000	169.09/M	ECJ-3YX1H105K
		25	.1µF	±10%	0.85	PCC1883CT-ND◆	.37	2.85	16.39	47.04	PCC1883TR-ND◆	4,000	52.75/M	ECJ-3VB1E104K
		25	.12µF	±10%	0.85	PCC1884CT-ND	.41	3.66	22.90	73.26	PCC1884TR-ND	4,000	77.85/M	ECJ-3VB1E124K
		25	.18µF	±10%	0.85	PCC1886CT-ND◆	.38	3.34	20.90	66.88	PCC1886TR-ND◆	4,000	71.06/M	ECJ-3VB1E184K
		25	.22µF	±10%	0.85	PCC1887CT-ND◆	.44	2.78	13.91	33.78	PCC1887TR-ND◆	4,000	39.74/M	ECJ-3VB1E224K
		25	.27µF	±10%	0.85	PCC1888CT-ND◆	.49	4.37	27.33	87.44	PCC1888TR-ND◆	4,000	92.91/M	ECJ-3VB1E274K
		25	.33µF	±10%	0.85	PCC1889CT-ND◆	.37	2.85	16.39	47.04	—	—	—	ECJ-3VB1E334K
		25	.39µF	±10%	1.15	PCC1890CT-ND◆	.55	4.92	30.78	98.50	—	—	—	ECJ-3YB1E394K
		25	.47µF	±10%	1.15	PCC2412CT-ND◆	.39	2.97	17.08	49.01	PCC2412TR-ND◆	3,000	59.40/M	ECJ-3FB1E474K
		25	.47µF	±10%	1.15	PCC1891CT-ND◆	.27	2.40	15.01	48.03	PCC1891TR-ND◆	2,000	54.04/M	ECJ-3YB1E474K
		25	.56µF	±10%	1.60	PCC1926CT-ND◆	.57	5.06	33.22	113.24	PCC1926TR-ND◆	2,000	120.79/M	ECJ-3YB1E564K
		25	.68µF	±10%	1.60	PCC1892CT-ND◆	.39	2.97	17.08	49.01	PCC1892TR-ND◆	2,000	59.40/M	ECJ-3YB1E684K
		25	.82µF	±10%	1.60	PCC1927CT-ND◆	.51	3.94	22.67	65.04	PCC1927TR-ND◆	2,000	78.84/M	ECJ-3YB1E824K
		25	1µF	±10%	1.60	PCC1893CT-ND◆	.58	3.60	12.97	33.14	PCC1893TR-ND◆	2,000	36.03/M	ECJ-3YB1E105K
		16	.1µF	±10%	0.85	PCC1870CT-ND◆	.36	2.31	11.56	28.08	—	—	—	ECJ-3VB1C104K
		16	.12µF	±10%	0.85	PCC1871CT-ND	.38	3.41	21.33	68.26	PCC1871TR-ND	4,000	72.53/M	ECJ-3VB1C124K
		16	.15µF	±10%	0.85	PCC1872CT-ND	.36	2.31	11.56	28.08	PCC1872TR-ND	4,000	33.04/M	ECJ-3VB1C154K
		16	.18µF	±10%	0.85	PCC1873CT-ND	.40	3.58	22.36	71.54	PCC1873TR-ND	4,000	76.01/M	ECJ-3VB1C184K
		16	.22µF	±10%	0.85	PCC1874CT-ND◆	.36	2.31	11.56	28.08	PCC1874TR-ND◆	4,000	33.04/M	ECJ-3VB1C224K
		16	.27µF	±10%	0.85	PCC1875CT-ND◆	.44	3.90	24.36	77.94	—	—	—	ECJ-3VB1C274K
		16	.33µF	±10%	0.85	PCC1876CT-ND◆	.36	2.31	11.56	28.08	PCC1876TR-ND◆	4,000	33.04/M	ECJ-3VB1C334K
		16	.39µF	±10%	0.85	PCC1877CT-ND	.53	4.69	29.32	93.82	PCC1877TR-ND	4,000	99.69/M	ECJ-3VB1C394K
		16	.47µF	±10%	0.85	PCC1878CT-ND	.36	2.31	11.56	28.08	PCC1878TR-ND	4,000	33.04/M	ECJ-3VB1C474K
		16	.56µF	±10%	0.85	PCC1879CT-ND◆	.54	4.86	31.89	108.71	PCC1879TR-ND◆	4,000	108.71/M	ECJ-3VB1C564K
		16	.68µF	±10%	0.85	PCC1880CT-ND◆	.48	3.07	15.34	37.26	—	—	—	ECJ-3VB1C684K
		16	.82µF	±10%	1.15	PCC1881CT-ND◆	.82	7.29	47.85	163.14	PCC1881TR-ND◆	2,000	174.02/M	ECJ-3YB1C824K
		16	1µF	±10%	1.15	PCC2471CT-ND◆	.60	3.73	13.41	34.27	PCC2471TR-ND◆	3,000	37.25/M	ECJ-3FB1C105K
		16	1.5µF	±10%	1.60	PCC1929CT-ND◆	.37	3.26	20.36	65.15	PCC1929TR-ND◆	2,000	73.30/M	ECJ-3YB1C155K
		16	2.2µF	±10%	1.60	PCC1931CT-ND◆	.45	2.88	14.39	34.95	PCC1931TR-ND◆	2,000	45.23/M	ECJ-3YB1C225K
	X5R	25	2.2µF	±10%	1.60	PCC2296CT-ND◆	.57	5.10	31.86	101.95	—	—	—	ECJ-3YB1E225K
		25	4.7µF	±10%	0.85	PCC2484CT-ND◆	1.00	8.84	60.07	241.95	PCC2484TR-ND◆	4,000	233.61/M	ECJ-HVB1E475K
		25	4.7µF	±20%	1.60	PCC2241CT-ND◆	.74	6.62	43.48	148.23	PCC2241TR-ND◆	2,000	158.11/M	ECJ-3YB1E475M
		25	10µF	±20%	1.60	PCC2326CT-ND◆	.79	6.98	47.43	191.05	PCC2326TR-ND◆	2,000	197.64/M	ECJ-3YB1E106M
		25	10µF	±10%	1.60	PCC2414CT-ND◆	.79	6.98	47.43	191.05	PCC2414TR-ND◆	2,000	197.64/M	ECJ-3YB1E106K
		16	1.5µF	±10%	1.60	PCC1867CT-ND◆	.51	3.95	22.73	65.22	PCC1867TR-ND◆	2,000	79.06/M	ECJ-3YB1A155K
		16	4.7µF	±10%	0.85	PCC2485CT-ND◆	.96	8.47	57.56	231.86	PCC2485TR-ND◆	4,000	223.86/M	ECJ-HVB1C475K
		16	4.7µF	±10%	1.60	PCC2250CT-ND◆	.51	4.57	28.57	91.41	PCC2250TR-ND◆	2,000	102.84/M	ECJ-3YB1C475K
		16	4.7µF	±20%	1.60	PCC2226CT-ND◆	.51	4.57	28.57	91.41	PCC2226TR-ND◆	2,000	102.84/M	ECJ-3YB1C475M
		16	10µF	±10%	1.60	PCC2413CT-ND◆	.79	6.98	47.43	191.05	PCC2413TR-ND◆	2,000	197.64/M	ECJ-3YB1C106K
		16	10µF	±20%	0.85	PCC2417CT-ND◆	.73	6.51	42.77	145.80	PCC2417TR-ND◆	4,000	145.80/M	ECJ-HVB1C106M
		16	10µF	±20%	1.60	PCC2227CT-ND◆	.79	6.98	47.43	191.05	PCC2227TR-ND◆	2,000	197.64/M	ECJ-3YB1C106M
		16	22µF	±20%	1.60	PCC2332CT-ND◆	2.20	18.01	144.98	—	PCC2332TR-ND◆	2,000	615.08/M	ECJ-3YB1C226M
		10	2.2µF	±10%	0.85	PCC2312CT-ND◆	.46	4.13	25.81	82.59	PCC2312TR-ND◆	4,000	87.76/M	ECJ-HVB1A225K
		10	2.2µF	±10%	1.60	PCC1868CT-ND◆	.51	3.95	22.73	65.22	PCC1868TR-ND◆	2,000	79.06/M	ECJ-3YB1A225K
		10	2.7µF	±10%	1.60	PCC1934CT-ND§	—	8.52	63.90	227.20	—	—	—	ECJ-3YB1A275K
		10	3.3µF	±10%	1.60	PCC1869CT-ND◆	.51	4.52	28.22	90.30	—	—	—	ECJ-3YB1A335K
		10	4.7µF	±10%	1.60	PCC2295CT-ND◆	.43	2.71	13.57	32.95	PCC2295TR-ND◆	2,000	42.64/M	ECJ-3YB1A475K
		10	4.7µF	±20%	1.60	PCC2177CT-ND◆	.55	4.92	30.78	98.50	PCC2177TR-ND◆	2,000	110.81/M	ECJ-3YB1A475M
		10	10µF	±20%	1.60	PCC2178CT-ND◆	.91	8.10	53.17	181.28	PCC2178TR-ND◆	2,000	193.36/M	ECJ-3YB1A106M
		10	22µF	±20%	1.60	PCC2331CT-ND◆	1.65	13.51	108.74	—	PCC2331TR-ND◆	2,000	461.32/M	ECJ-3YB1A226M
		6.3	4.7µF	±10%	1.60	PCC1936CT-ND◆	.59	5.27	32.94	105.41	PCC1936TR-ND◆	2,000	118.59/M	ECJ-3YB0J475K
		6.3	4.7µF	±20%	0.85	PCC2316CT-ND◆	.62	5.52	36.26	123.60	—	—	—	ECJ-HVB0J475M
		6.3	6.8µF	±10%	1.60	PCC1938CT-ND◆	1.19	10.50	71.31	287.20	PCC1938TR-ND◆	2,000	297.11/M	ECJ-3YB0J685K
		6.3	8.2µF	±10%	1.60	PCC1939CT-ND§	—	11.58	86.85	308.80	—	—	—	ECJ-3YB0J825K
		6.3	10µF	±10%	1.60	PCC1940CT-ND◆	.49	3.10	15.50	37.64	PCC1940TR-ND◆	2,000	48.71/M	ECJ-3YB0J106K
		6.3	10µF	±20%	0.85	PCC2317CT-ND◆	1.09	9.62	65.32	263.09	PCC2317TR-ND◆	4,000	254.02/M	ECJ-HVB0J106M
		6.3	10µF	±20%	0.85	PCC2328CT-ND◆‡	.91	8.03	54.55	219.70	PCC2328TR-ND◆‡	4,000	212.13/M	ECJ-DV50J106M
		6.3	22µF	±20%	0.85	PCC2329CT-ND◆‡	1.41	11.56	93.02	380.54	PCC2329TR-ND◆‡	4,000	380.54/M	ECJ-DV50J226M
		6.3	22µF	±20%	1.60	PCC2242CT-ND◆	.63	5.56	34.78	111.28	PCC2242TR-ND◆	2,000	125.19/M	ECJ-3YB0J226M
	Y5V	25	.47µF	+80%/-20%	0.85	PCC1901CT-ND◆	.33	2.53	14.53	41.70	PCC1901TR-ND◆	4,000	46.75/M	ECJ-3VF1E474Z
		25	.68µF	+80%/-20%	1.15	PCC1902CT-ND	.55	4.90	30.62	97.98	PCC1902TR-ND	2,000	110.23/M	ECJ-3YF1E684Z
		25	1µF	+80%/-20%	1.15	PCC2472CT-ND◆	.54	3.35	12.07	30.84	PCC2472TR-ND◆	3,000	33.53/M	ECJ-3FF1E105Z
		25	1.5µF	+80%/-20%	1.15	PCC1904CT-ND◆	.73	6.55	43.01	146.61	PCC1904TR-ND◆	2,000	156.39/M	ECJ-3YF1E155Z
		25	2.2µF	+80%/-20%	1.15	PCC2473CT-ND◆	.51	3.95	22.73	65.22	PCC2473TR-ND◆	3,000	79.06/M	ECJ-3FF1E225Z
		16	.68µF	+80%/-20%	0.85	PCC1895CT-ND	.54	4.86	31.94	108.87	PCC1895TR-ND	4,000	108.87/M	ECJ-3VF1C684Z
		16	1µF	+80%/-20%	0.85	PCC1896CT-ND◆	.43	2.77	13.83	33.59	PCC1896TR-ND◆	4,000	39.52/M	ECJ-3VF1C105Z
		16	1.5µF	+80%/-20%	0.85	PCC1897CT-ND§	—	4.17	29.75	107.10	—	—	—	ECJ-3VF1C155Z
		16	2.2µF	+80%/-20%	0.85	PCC1898CT-ND◆	.53	3.39	16.93	41.12	PCC1898TR-ND◆	4,000	48.38/M	ECJ-3VF1C225Z
		16	4.7µF	+80%/-20%	1.15	PCC2474CT-ND◆	.46	2.86	10.29	26.29	PCC2474TR-ND◆	3,000	28.58/M	ECJ-3FF1C475Z
		16	10µF	+80%/-20%	1.25	PCC2420CT-ND◆	.54	4.86	31.94	108.87	PCC2420TR-ND◆	3,000	116.13/M	ECJ-MFF1C106Z
		10	10µF	+80%/-20%	1.60	PCC1894CT-ND◆	.57	3.55	12.79	32.68	PCC1894TR-ND◆	2,000	35.53/M	ECJ-3YF1A106Z
		10	10µF	+80%/-20%	1.25	PCC2418CT-ND◆	.53	4.78	31.36	106.92	PCC2418TR-ND◆	3,000	114.05/M	ECJ-MFF1A106Z
		10	22µF	+80%/-20%	1.25	PCC2419CT-ND◆	.92	8.25	54.17	184.68	—	—	—	ECJ-MFF1A226Z
	F	50	1.0µF	+80%/-20%	1.15	PCC2234CT-ND◆	.43	3.29	18.94	54.35	PCC2234TR-ND◆	3,000	65.88/M	ECJ-3FF1H105Z
		25	4.7µF	+80%/-20%	1.15	PCC2235CT-ND◆	.51	3.95	22.73	65.22	PCC2235TR-ND◆	3,000	79.06/M	ECJ-3FF1E475Z
		25	10µF	+80%/-20%	1.60	PCC2415CT-ND◆	.63	5.64	37.07	126.36	PCC2415TR-ND◆	2,000	134.79/M	ECJ-3YF1E106Z
		16	10µF	+80%/-20%	1.60	PCC2300CT-ND◆	.42	3.69	23.06	73.79	PCC2300TR-ND◆	2,000	83.02/M	ECJ-3YF1C106Z
		10	22µF	+80%/-20%	1.60	PCC2236CT-ND◆	.46	4.12	27.09	92.34	PCC2236TR-ND◆	2,000	98.50/M	ECJ-3YF1A226Z
1210	X7R	100	0.22µF	±10%	2.00	PCC2304CT-ND◆§	1.34	11.80	80.17	322.92	PCC2304TR-ND◆§	2,000	334.05/M	ECJ-4YB2A224K
		100	0.68µF	±10%	2.50	PCC2305CT-ND◆§	1.26	11.13	75.58	—	PCC2305TR-ND◆§	1,000	335.92	ECJ-4YB2A684K
		100	0.68µF	±20%	2.50	PCC2247CT-ND◆§	1.20	10.59	71.93	—	PCC2247TR-ND◆§	1,000	319.68	ECJ-4YB2A684M
	X5R	50	1µF	±10%	2.00	PCC2303CT-ND◆§	.78	6.98	45.87	156.36	PCC2303TR-ND◆§	2,000	166.79/M	ECJ-4YB1H105K
		25	2.2µF	±10%	2.00	PCC2302CT-ND◆§	.69	6.17	40.54	138.20	PCC2302TR-ND◆§	2,000	147.41/M	ECJ-4YB1E225K
		25	4.7µF	±10%	2.00	PCC2251CT-ND◆§	.79	7.09	46.57	158.76	PCC2251TR-ND◆§	2,000	169.35/M	ECJ-4YB1E475K

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

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Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic® Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206 and 1210 *(Cont.)*

Digi-Reel®

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
1210	X5R	25	10µF	±20%	2.50	PCC2243CT-ND◆§	.87	7.67	52.10	—	PCC2243TR-ND◆§	1,000	231.55	ECJ-4YB1E106M
		25	22µF	±20%	2.50	PCC2333CT-ND◆§	3.54	29.38	259.20	—	PCC2333TR-ND◆§	1,000	1209.60	ECJ-4YB1E226M
		16	4.7µF	±10%	2.00	PCC2168CT-ND◆§	.79	7.09	46.57	158.76	PCC2168TR-ND◆§	2,000	169.35/M	ECJ-4YB1C475K
		16	10µF	±10%	2.00	PCC2169CT-ND◆§	1.16	10.26	69.71	280.78	PCC2169TR-ND◆§	2,000	290.46/M	ECJ-4YB1C106K
		16	22µF	±20%	2.00	PCC2330CT-ND◆§	2.38	19.72	173.99	—	PCC2330TR-ND◆§	1,000	811.94	ECJ-4YB1C226M
		16	47µF	±20%	2.50	PCC2335CT-ND◆§	4.08	36.29	328.86	—	PCC2335TR-ND◆§	1,000	1508.22	ECJ-4YB1C476M
		10	22µF	±20%	2.50	PCC2228CT-ND◆§	1.11	9.13	73.49	300.65	PCC2228TR-ND◆§	1,000	334.05	ECJ-4YB1A226M
		10	47µF	±20%	2.50	PCC2334CT-ND◆§	3.95	35.08	317.90	1315.44	PCC2334TR-ND◆§	1,000	1457.95	ECJ-4YB1A476M
		6.3	22µF	±20%	2.50	PCC2179CT-ND◆§	1.11	9.13	73.49	300.65	PCC2179TR-ND◆§	1,000	334.05	ECJ-4YB0J226M
		6.3	47µF	±10%	2.50	PCC2301CT-ND◆§	1.84	15.06	121.25	496.02	—	—	—	ECJ-4YB0J476M
		6.3	100µF	±20%	2.50	PCC2267CT-ND◆§	6.31	59.31	526.11	2200.08	PCC2267TR-ND◆§	1,000	2487.04	ECJ-4YB0J107M
	Y5V	25	10µF	+80%/-20%	1.60	PCC2171CT-ND◆§	.60	5.31	36.08	145.32	PCC2171TR-ND◆§	2,000	150.33/M	ECJ-4YF1E106Z
		10	22µF	+80%/-20%	2.00	PCC2172CT-ND◆§	.87	7.67	52.10	209.84	PCC2172TR-ND◆§	2,000	217.08/M	ECJ-4YF1A226Z
	F	6.3	47µF	+80%/-20%	2.00	PCC2237CT-ND◆§	1.45	11.87	95.55	390.89	PCC2237TR-ND◆§	2,000	405.37/M	ECJ-4YF0J476Z
		16	10µF	+80%/-20%	2.00	PCC2306CT-ND◆§	.75	6.71	44.10	150.33	—	—	—	ECJ-4YF1C106Z
		16	22µF	+80%/-20%	2.00	PCC2307CT-ND◆§	1.00	8.86	60.15	242.27	PCC2307TR-ND◆§	2,000	250.62/M	ECJ-4YF1C226Z
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND◆§	.80	7.08	48.10	193.72	PCC2309TR-ND◆§	2,000	200.40/M	ECJ-4YF1H475Z
		50	10µF	+80%/-20%	2.00	PCC2308CT-ND◆§	.87	7.67	52.10	209.84	PCC2308TR-ND◆§	2,000	217.08/M	ECJ-4YF1H106Z

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

Digi-Key® Notebook StyleKit Boxes

Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- **PCC17-KIT-ND** ***1206/NP0 Series Kit*** 10 each of values denoted (140 total pieces) **$89.95**

Panasonic® High-Q (Microwave) Multilayer Chip Capacitors 0201 and 0402 High-Accuracy/High-Frequency

Digi-Reel®

Features: • Lead Free • Operating Temperature Range: -55°C ~ 125°C • Low Cap. with Tight Tolerance • High Q value / Low ESR at High Frequency. • Ultra-Stable C0G Performance (0±30 ppm/°C) • 0201 and 0402 Miniature Sizes **Applications (At Microwave Frequency):** • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit **Application Examples:** • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.

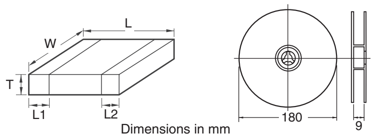

Dimensions in mm

Size Code (EIA)	L	W	T	L1 / L2
0201	0.60±0.03	0.30±0.03	0.30	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.50	0.20±0.10

Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0201	C0G	25	.20pF	±0.05pF	PCC2338CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZER208
	C0G	25	.30pF	±0.05pF	PCC2339CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZER308
	C0G	25	.40pF	±0.05pF	PCC2340CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2340TR-ND◆	15,000	53.79/M	ECD-GZER408
	C0G	25	.60pF	±0.075pF	PCC2342CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZER609
	C0G	25	.70pF	±0.075pF	PCC2343CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZER709
	C0G	25	.80pF	±0.075pF	PCC2344CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZER809
	C0G	25	.90pF	±0.075pF	PCC2345CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2345TR-ND◆	15,000	53.79/M	ECD-GZER909
	C0G	25	1.0pF	±0.10pF	PCC2346CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2346TR-ND◆	15,000	53.79/M	ECD-GZE1R0B
	C0G	25	1.1pF	±0.10pF	PCC2347CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE1R1B
	C0G	25	1.2pF	±0.10pF	PCC2348CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2348TR-ND◆	15,000	53.79/M	ECD-GZE1R2B
	C0G	25	1.3pF	±0.10pF	PCC2349CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE1R3B
	C0G	25	1.5pF	±0.10pF	PCC2350CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2350TR-ND◆	15,000	53.79/M	ECD-GZE1R5B
	C0G	25	1.6pF	±0.10pF	PCC2351CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2351TR-ND◆	15,000	53.79/M	ECD-GZE1R6B
	C0G	25	1.8pF	±0.10pF	PCC2352CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2352TR-ND◆	15,000	53.79/M	ECD-GZE1R8B
	C0G	25	2.0pF	±0.10pF	PCC2353CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE2R0B
	C0G	25	2.2pF	±0.10pF	PCC2356CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2356TR-ND◆	15,000	53.79/M	ECD-GZE2R2B
	C0G	25	2.4pF	±0.10pF	PCC2357CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE2R4B
	C0G	25	2.7pF	±0.10pF	PCC2358CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE2R7B
	C0G	25	3.0pF	±0.10pF	PCC2359CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE3R0B
	C0G	25	3.3pF	±0.25pF	PCC2360CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2360TR-ND◆	15,000	53.79/M	ECD-GZE3R3C
	C0G	25	3.9pF	±0.25pF	PCC2361CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2361TR-ND◆	15,000	53.79/M	ECD-GZE3R9C
	C0G	25	4.7pF	±0.25pF	PCC2362CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-GZE4R7C
0402	C0G	25	.30pF	±0.05pF	PCC2194CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-G0ER308
	C0G	25	.40pF	±0.05pF	PCC2196CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2196TR-ND◆	10,000	56.70/M	ECD-G0ER408
	C0G	25	.50pF	±0.05pF	PCC2198CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2198TR-ND◆	10,000	56.70/M	ECD-G0ER508
	C0G	25	.55pF	±0.075pF	PCC2199CT-ND	—	2.55	16.88	63.75	101.25	—	—	—	ECD-G0ER559
	C0G	25	.60pF	±0.075pF	PCC2200CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—`	—	ECD-G0ER609
	C0G	25	.70pF	±0.075pF	PCC2202CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-G0ER709
	C0G	25	.80pF	±0.075pF	PCC2204CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-G0ER809
	C0G	25	1.0pF	±0.10pF	PCC2252CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2252TR-ND◆	10,000	56.70/M	ECD-G0E1R0B
	C0G	25	1.1pF	±0.10pF	PCC2209CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2209TR-ND◆	10,000	56.70/M	ECD-G0E1R1B
	C0G	25	1.2pF	±0.10pF	PCC2210CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2210TR-ND◆	10,000	56.70/M	ECD-G0E1R2B
	C0G	25	1.3pF	±0.10pF	PCC2211CT-ND◆	.42	3.24	18.63	53.46	84.24	—	—	—	ECD-G0E1R3B
	C0G	25	1.5pF	±0.10pF	PCC2213CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2213TR-ND◆	10,000	56.70/M	ECD-G0E1R5B
	C0G	25	1.6pF	±0.10pF	PCC2214CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2214TR-ND◆	10,000	56.70/M	ECD-G0E1R6B
	C0G	25	1.8pF	±0.10pF	PCC2216CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2216TR-ND◆	10,000	56.70/M	ECD-G0E1R8B
	C0G	25	2.0pF	±0.10pF	PCC2218CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2218TR-ND◆	10,000	56.70/M	ECD-G0E2R0B
	C0G	25	2.2pF	±0.10pF	PCC2253CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2253TR-ND◆	10,000	56.70/M	ECD-G0E2R2B
	C0G	25	2.4pF	±0.10pF	PCC2254CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2254TR-ND◆	10,000	56.70/M	ECD-G0E2R4B
	C0G	25	2.7pF	±0.10pF	PCC2255CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2255TR-ND◆	10,000	56.70/M	ECD-G0E2R7B
	C0G	25	3.0pF	±0.10pF	PCC2256CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2256TR-ND◆	10,000	56.70/M	ECD-G0E3R0B
	C0G	25	3.3pF	±0.25pF	PCC2258CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2258TR-ND◆	10,000	56.70/M	ECD-G0E3R3C
	C0G	25	4.7pF	±0.25pF	PCC2260CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2260TR-ND◆	10,000	56.70/M	ECD-G0E4R7C
	C0G	25	5.6pF	±0.25pF	PCC2261CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2261TR-ND◆	10,000	56.70/M	ECD-G0E5R6C
	C0G	25	6.8pF	±0.25pF	PCC2262CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2262TR-ND◆	10,000	56.70/M	ECD-G0E6R8C
	C0G	25	8.2pF	±0.25pF	PCC2263CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2263TR-ND◆	10,000	56.70/M	ECD-G0E8R2C
	C0G	25	10.0pF	±0.25pF	PCC2264CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2264TR-ND◆	10,000	56.70/M	ECD-G0E100C
	C0G	25	12pF	±5%	PCC2265CT-ND◆	.42	3.24	18.63	53.46	84.24	PCC2265TR-ND◆	10,000	56.70/M	ECD-G0E120J

◆ ***RoHS Compliant***

AVX Multilayer Ceramic Chip Capacitors

C0G (NP0) Dielectric: • EIA class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Operating temperature range: -55°C ~ 125°C • Capacitance change with temperature is 0 ±30ppm/°C which is less than ±0.3% Δ C from -55°C ~ 125°C

X7R/X7S/X8R Dielectric: • Formulations are called “temperature stable” ceramics and fall into EIA class II materials • Its temperature variation of capacitance is within ±15%(X7R/X8R), ±22%(X7S) from -55°C ~ 125°C from -55°C ~ 150°C (X8R)

X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating temperature range: -55°C ~ 85°C

Y5V Dielectric: • Y5V formulations are for general purpose use in a limited temperature range • They have a wide temperature characteristic of +22% ~ 82% capacitance change over the operating temperature range of -30°C ~ 85°C

Size Code	Dimensions - mm L	W	t
0201	0.60 ±0.03	0.30 ±0.03	0.15 ±0.05
0402	1.00 ±0.10	0.50 ±0.10	0.25 ±0.15
0603	1.60 ±0.15	0.81 ±0.15	0.35 ±0.15
0805	2.01 ±0.20	1.25 ±0.20	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.50 ±0.25
1210	3.20 ±0.20	2.50 ±0.20	0.50 ±0.25
1808	4.57 ±0.25	2.03 ±0.25	0.64 ±0.39
1812	4.50 ±0.30	3.20 ±0.20	0.61 ±0.36
1825	4.50 ±0.30	6.40 ±0.40	0.61 ±0.36
2220	5.70 ±0.40	5.00 ±0.40	0.64 ±0.39
2225	5.72 ±0.25	6.35 ±0.25	0.64 ±0.39

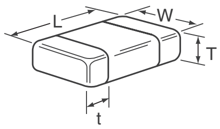

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0201	C0G (NP0)	25V	.5pF	±.25pF	0.33	478-1000-1-ND	2.75	16.25	46.88	478-1000-2-ND	15,000	45.00/M	02013A0R5CAT2A
	C0G (NP0)	25V	1.0pF	±.25pF	0.33	478-1001-1-ND	2.75	16.25	46.88	478-1001-2-ND	15,000	45.00/M	02013A1R0CAT2A
	C0G (NP0)	25V	1.2pF	±.25pF	0.33	478-1002-1-ND	4.95	29.25	84.38	478-1002-2-ND	15,000	81.00/M	02013A1R2CAT2A
	C0G (NP0)	25V	1.8pF	±.25pF	0.33	478-1004-1-ND	4.95	29.25	84.38	478-1004-2-ND	15,000	81.00/M	02013A1R8CAT2A
	C0G (NP0)	25V	2.2pF	±.25pF	0.33	478-1005-1-ND	4.95	29.25	84.38	478-1005-2-ND	15,000	81.00/M	02013A2R2CAT2A
	C0G (NP0)	25V	2.7pF	±.25pF	0.33	478-1006-1-ND	4.95	29.25	84.38	478-1006-2-ND	15,000	81.00/M	02013A2R7CAT2A
	C0G (NP0)	25V	3.3pF	±.25pF	0.33	478-1007-1-ND	4.95	29.25	84.38	478-1007-2-ND	15,000	81.00/M	02013A3R3CAT2A
	C0G (NP0)	25V	3.9pF	±.25pF	0.33	478-1008-1-ND	4.95	29.25	84.38	478-1008-2-ND	15,000	81.00/M	02013A3R9CAT2A
	C0G (NP0)	25V	4.7pF	±.25pF	0.33	478-1009-1-ND	4.95	29.25	84.38	478-1009-2-ND	15,000	81.00/M	02013A4R7CAT2A
	C0G (NP0)	25V	5.6pF	±.25pF	0.33	478-1010-1-ND	4.95	29.25	84.38	478-1010-2-ND	15,000	81.00/M	02013A5R6CAT2A
	C0G (NP0)	25V	6.8pF	±.25pF	0.33	478-1011-1-ND	4.95	29.25	84.38	478-1011-2-ND	15,000	81.00/M	02013A6R8CAT2A
	C0G (NP0)	25V	8.2pF	±.25pF	0.33	478-1012-1-ND	4.95	29.25	84.38	478-1012-2-ND	15,000	81.00/M	02013A8R2CAT2A
	C0G (NP0)	25V	10pF	±5%	0.33	478-1014-1-ND	2.75	16.25	46.88	478-1014-2-ND	15,000	45.00/M	02013A100JAT2A
	C0G (NP0)	25V	12pF	±5%	0.33	478-1015-1-ND	2.75	16.25	46.88	478-1015-2-ND	15,000	45.00/M	02013A120JAT2A
	C0G (NP0)	25V	15pF	±5%	0.33	478-1016-1-ND	2.75	16.25	46.88	478-1016-2-ND	15,000	45.00/M	02013A150JAT2A
	C0G (NP0)	25V	18pF	±5%	0.33	478-1017-1-ND	2.75	16.25	46.88	478-1017-2-ND	15,000	45.00/M	02013A180JAT2A
	C0G (NP0)	25V	22pF	±2%	0.33	478-6017-1-ND ***NEW!***	.50	2.93	8.44	478-6017-2-ND ***NEW!***	15,000	8.00/M	02013A220GAT2A
	C0G (NP0)	25V	22pF	±5%	0.33	478-1018-1-ND	2.75	16.25	46.88	478-1018-2-ND	15,000	45.00/M	02013A220JAT2A
	C0G (NP0)	25V	27pF	±5%	0.33	478-1019-1-ND	2.75	16.25	46.88	478-1019-2-ND	15,000	45.00/M	02013A270JAT2A
	C0G (NP0)	25V	33pF	±5%	0.33	478-1020-1-ND	2.75	16.25	46.88	478-1020-2-ND	15,000	45.00/M	02013A330JAT2A
	C0G (NP0)	16V	39pF	±5%	0.33	478-1021-1-ND	2.75	16.25	46.88	478-1021-2-ND	15,000	45.00/M	0201YA390JAT2A
	C0G (NP0)	16V	47pF	±5%	0.33	478-1022-1-ND	2.75	16.25	46.88	478-1022-2-ND	15,000	45.00/M	0201YA470JAT2A
	C0G (NP0)	16V	56pF	±5%	0.33	478-1023-1-ND	2.75	16.25	46.88	478-1023-2-ND	15,000	45.00/M	0201YA560JAT2A
	C0G (NP0)	16V	68pF	±5%	0.33	478-1024-1-ND	2.75	16.25	46.88	478-1024-2-ND	15,000	45.00/M	0201YA680JAT2A
	C0G (NP0)	10V	82pF	±5%	0.33	478-1025-1-ND	2.75	16.25	46.88	478-1025-2-ND	15,000	45.00/M	0201ZA820JAT2A
	C0G (NP0)	10V	100pF	±5%	0.33	478-1026-1-ND	5.50	32.50	93.75	478-1026-2-ND	15,000	90.00/M	0201ZA101JAT2A
	X7R	16V	100pF	±10%	0.33	478-1027-1-ND	4.95	29.25	84.38	478-1027-2-ND	15,000	81.00/M	0201YC101KAT2A
	X7R	16V	120pF	±10%	0.33	478-1028-1-ND	4.95	29.25	84.38	478-1028-2-ND	15,000	81.00/M	0201YC121KAT2A
	X7R	16V	150pF	±10%	0.33	478-1029-1-ND	2.75	16.25	46.88	478-1029-2-ND	15,000	45.00/M	0201YC151KAT2A
	X7R	16V	180pF	±10%	0.33	478-1030-1-ND	4.95	29.25	84.38	478-1030-2-ND	15,000	81.00/M	0201YC181KAT2A
	X7R	16V	220pF	±10%	0.33	478-1031-1-ND	2.75	16.25	46.88	478-1031-2-ND	15,000	45.00/M	0201YC221KAT2A
	X7R	16V	270pF	±10%	0.33	478-1032-1-ND	4.95	29.25	84.38	478-1032-2-ND	15,000	81.00/M	0201YC271KAT2A
	X7R	16V	330pF	±10%	0.33	478-1033-1-ND	2.75	16.25	46.88	478-1033-2-ND	15,000	45.00/M	0201YC331KAT2A
	X7R	16V	390pF	±10%	0.33	478-1034-1-ND	4.95	29.25	84.38	478-1034-2-ND	15,000	81.00/M	0201YC391KAT2A
	X7R	16V	470pF	±10%	0.33	478-1035-1-ND	2.75	16.25	46.88	478-1035-2-ND	15,000	45.00/M	0201YC471KAT2A
	X7R	16V	560pF	±10%	0.33	478-1036-1-ND	5.28	31.20	90.00	478-1036-2-ND	15,000	86.00/M	0201YC561KAT2A
	X7R	16V	680pF	±10%	0.33	478-1037-1-ND	2.75	16.25	46.88	478-1037-2-ND	15,000	45.00/M	0201YC681KAT2A
	X7R	16V	820pF	±10%	0.33	478-1038-1-ND	5.28	31.20	90.00	478-1038-2-ND	15,000	86.00/M	0201YC821KAT2A
	X7R	16V	1000pF	±10%	0.33	478-1039-1-ND	2.75	16.25	46.88	478-1039-2-ND	15,000	45.00/M	0201YC102KAT2A
	X5R	10V	1200pF	±10%	0.33	478-1040-1-ND	6.05	35.75	103.13	478-1040-2-ND	15,000	99.00/M	0201ZD122KAT2A
	X5R	10V	1500pF	±10%	0.33	478-1041-1-ND	6.05	35.75	103.13	478-1041-2-ND	15,000	99.00/M	0201ZD152KAT2A
	X5R	10V	1800pF	±10%	0.33	478-1042-1-ND	5.50	32.50	93.75	478-1042-2-ND	15,000	90.00/M	0201ZD182KAT2A
	X5R	10V	2200pF	±10%	0.33	478-1043-1-ND	6.60	39.00	112.50	478-1043-2-ND	15,000	108.00/M	0201ZD222KAT2A
	X5R	10V	3300pF	±10%	0.33	478-1045-1-ND	2.75	16.25	46.88	478-1045-2-ND	15,000	45.00/M	0201ZD332KAT2A
	X5R	10V	3900pF	±10%	0.33	478-1046-1-ND	6.60	39.00	112.50	478-1046-2-ND	15,000	108.00/M	0201ZD392KAT2A
	X5R	10V	5600pF	±10%	0.33	478-1048-1-ND	7.15	42.25	121.88	478-1048-2-ND	15,000	117.00/M	0201ZD562KAT2A
	X5R	10V	6800pF	±10%	0.33	478-1049-1-ND	2.75	16.25	46.88	478-1049-2-ND	15,000	45.00/M	0201ZD682KAT2A
	X5R	10V	8200pF	±10%	0.33	478-1050-1-ND	7.70	45.50	131.25	478-1050-2-ND	15,000	126.00/M	0201ZD822KAT2A
	X5R	10V	10000pF	±10%	0.33	478-1051-1-ND	1.10	6.50	18.75	478-1051-2-ND	15,000	18.00/M	0201ZD103KAT2A
	X5R	6.3V	0.1µF	±10%	0.33	478-5266-1-ND	2.20	13.00	37.50	478-5266-2-ND	15,000	36.00/M	02016D104KAT2A
	Y5V	10V	10000pF	+80 -20%	0.33	478-1052-1-ND	8.25	48.75	140.63	478-1052-2-ND	15,000	135.00/M	0201ZG103ZAT2A
	Y5V	6.3V	15000pF	+80 -20%	0.33	478-1053-1-ND	8.25	48.75	140.63	478-1053-2-ND	15,000	135.00/M	02016G153ZAT2A
	Y5V	6.3V	22000pF	+80 -20%	0.33	478-1054-1-ND	8.25	48.75	140.63	478-1054-2-ND	15,000	135.00/M	02016G223ZAT2A
	Y5V	6.3V	33000pF	+80 -20%	0.33	478-1055-1-ND	8.25	48.75	140.63	478-1055-2-ND	15,000	135.00/M	02016G333ZAT2A
	Y5V	6.3V	47000pF	+80 -20%	0.33	478-1056-1-ND	6.60	39.00	112.50	478-1056-2-ND	15,000	108.00/M	02016G473ZAT2A
0402	C0G (NP0)	50V	.5pF	±.25pF	0.56	478-1057-1-ND	3.30	19.50	56.25	478-1057-2-ND	10,000	54.00/M	04025A0R5CAT2A
	C0G (NP0)	50V	.5pF	±.10pF	0.56	478-3656-1-ND	3.63	21.45	61.88	478-3656-2-ND	10,000	53.00/M	04025A0R5BAT2A
	C0G (NP0)	50V	1.0pF	±.25pF	0.56	478-1058-1-ND	1.10	6.50	18.75	478-1058-2-ND	10,000	18.00/M	04025A1R0CAT2A
	C0G (NP0)	50V	1.0pF	±.10pF	0.56	478-3659-1-ND	3.63	21.45	61.88	478-3659-2-ND	10,000	53.00/M	04025A1R0BAT2A
	C0G (NP0)	50V	1.2pF	±.25pF	0.56	478-1059-1-ND	4.40	26.00	75.00	478-1059-2-ND	10,000	72.00/M	04025A1R2CAT2A
	C0G (NP0)	50V	1.5pF	±.25pF	0.56	478-1060-1-ND	1.10	6.50	18.75	478-1060-2-ND	10,000	18.00/M	04025A1R5CAT2A
	C0G (NP0)	50V	1.8pF	±.25pF	0.56	478-1061-1-ND	3.30	19.50	56.25	478-1061-2-ND	10,000	54.00/M	04025A1R8CAT2A
	C0G (NP0)	50V	2.2pF	±.25pF	0.56	478-1062-1-ND	3.30	19.50	56.25	478-1062-2-ND	10,000	54.00/M	04025A2R2CAT2A
	C0G (NP0)	50V	2.7pF	±.25pF	0.56	478-1063-1-ND	3.30	19.50	56.25	478-1063-2-ND	10,000	54.00/M	04025A2R7CAT2A
	C0G (NP0)	50V	3.3pF	±.25pF	0.56	478-1064-1-ND	3.30	19.50	56.25	478-1064-2-ND	10,000	54.00/M	04025A3R3CAT2A
	C0G (NP0)	50V	3.9pF	±.10pF	0.56	478-5129-1-ND	1.10	6.50	18.75	478-5129-2-ND	10,000	18.00/M	04025A3R9BAT2A
	C0G (NP0)	50V	3.9pF	±.25pF	0.56	478-1065-1-ND	3.30	19.50	56.25	478-1065-2-ND	10,000	54.00/M	04025A3R9CAT2A
	C0G (NP0)	50V	4.7pF	±.10pF	0.56	478-5766-1-ND ***NEW!***	3.63	21.45	61.88	478-5766-2-ND ***NEW!***	10,000	59.00/M	04025A4R7BAT2A
	C0G (NP0)	50V	4.7pF	±.25pF	0.56	478-1066-1-ND	3.30	19.50	56.25	478-1066-2-ND	10,000	54.00/M	04025A4R7CAT2A
	C0G (NP0)	50V	5.6pF	±.25pF	0.56	478-1067-1-ND	3.30	19.50	56.25	478-1067-2-ND	10,000	54.00/M	04025A5R6CAT2A
	C0G (NP0)	50V	6.8pF	±.25pF	0.56	478-1068-1-ND	3.30	19.50	56.25	478-1068-2-ND	10,000	54.00/M	04025A6R8CAT2A
	C0G (NP0)	50V	8.2pF	±.25pF	0.56	478-1069-1-ND	.44	2.60	7.50	478-1069-2-ND	10,000	7.00/M	04025A8R2CAT2A
	C0G (NP0)	50V	10pF	±.25pF	0.56	478-3657-1-ND	3.30	19.50	56.25	478-3657-2-ND	10,000	49.00/M	04025A100CAT2A
	C0G (NP0)	50V	10pF	±5%	0.56	478-1070-1-ND	1.10	6.50	18.75	478-1070-2-ND	10,000	18.00/M	04025A100JAT2A
	C0G (NP0)	50V	12pF	±5%	0.56	478-1071-1-ND	1.10	6.50	18.75	478-1071-2-ND	10,000	18.00/M	04025A120JAT2A
	C0G (NP0)	50V	15pF	±1%	0.56	478-5126-1-ND	9.35	55.25	159.38	478-5126-2-ND	10,000	153.00/M	04025A150FAT2A
	C0G (NP0)	50V	15pF	±2%	0.56	478-5268-1-ND	8.58	50.70	146.25	478-5268-2-ND	10,000	140.00/M	04025A150GAT2A
	C0G (NP0)	50V	15pF	±5%	0.56	478-1072-1-ND	1.10	6.50	18.75	478-1072-2-ND	10,000	18.00/M	04025A150JAT2A
	C0G (NP0)	50V	18pF	±1%	0.56	478-5128-1-ND	9.35	55.25	159.38	478-5128-2-ND	10,000	153.00/M	04025A180FAT2A
	C0G (NP0)	50V	18pF	±5%	0.56	478-1073-1-ND	1.10	6.50	18.75	478-1073-2-ND	10,000	18.00/M	04025A180JAT2A
	C0G (NP0)	50V	20pF	±5%	0.56	478-5764-1-ND ***NEW!***	3.30	19.50	56.25	478-5764-2-ND ***NEW!***	10,000	54.00/M	04025A200JAT2A
	C0G (NP0)	50V	22pF	±1%	0.56	478-5765-1-ND ***NEW!***	8.80	52.00	150.00	478-5765-2-ND ***NEW!***	10,000	144.00/M	04025A220FAT2A
	C0G (NP0)	50V	22pF	±5%	0.56	478-1074-1-ND	1.10	6.50	18.75	478-1074-2-ND	10,000	18.00/M	04025A220JAT2A
	C0G (NP0)	50V	22pF	±10%	0.56	478-3660-1-ND	3.30	19.50	56.25	478-3660-2-ND	10,000	49.00/M	04025A220KAT2A
	C0G (NP0)	50V	27pF	±5%	0.56	478-1075-1-ND	1.10	6.50	18.75	478-1075-2-ND	10,000	18.00/M	04025A270JAT2A
	C0G (NP0)	50V	33pF	±5%	0.56	478-1076-1-ND	1.10	6.50	18.75	478-1076-2-ND	10,000	18.00/M	04025A330JAT2A
	C0G (NP0)	50V	39pF	±5%	0.56	478-1077-1-ND	1.10	6.50	18.75	478-1077-2-ND	10,000	18.00/M	04025A390JAT2A

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0402	C0G (NP0)	50V	47pF	±5%	0.56	478-1078-1-ND	1.10	6.50	18.75	478-1078-2-ND	10,000	18.00/M	04025A470JAT2A
	C0G (NP0)	50V	56pF	±1%	0.56	478-6018-1-ND ***NEW!***	5.28	31.20	90.00	478-6018-2-ND ***NEW!***	10,000	86.00/M	04025A560FAT2A
	C0G (NP0)	50V	56pF	±5%	0.56	478-1079-1-ND	1.10	6.50	18.75	478-1079-2-ND	10,000	18.00/M	04025A560JAT2A
	C0G (NP0)	50V	68pF	±5%	0.56	478-1080-1-ND	1.10	6.50	18.75	478-1080-2-ND	10,000	18.00/M	04025A680JAT2A
	C0G (NP0)	50V	82pF	±5%	0.56	478-1081-1-ND	3.30	19.50	56.25	478-1081-2-ND	10,000	54.00/M	04025A820JAT2A
	C0G (NP0)	50V	100pF	±5%	0.56	478-1082-1-ND	1.10	6.50	18.75	478-1082-2-ND	10,000	18.00/M	04025A101JAT2A
	C0G (NP0)	50V	100pF	±1%	0.56	478-3658-1-ND	8.80	52.00	150.00	478-3658-2-ND	10,000	130.00/M	04025A101FAT2A
	C0G (NP0)	50V	100pF	±10%	0.56	478-4979-1-ND	.61	3.58	10.31	478-4979-2-ND	10,000	10.00/M	04025A101KAT2A
	C0G (NP0)	50V	120pF	±5%	0.56	478-1083-1-ND	1.10	6.50	18.75	478-1083-2-ND	10,000	18.00/M	04025A121JAT2A
	C0G (NP0)	50V	150pF	±5%	0.56	478-1084-1-ND	1.10	6.50	18.75	478-1084-2-ND	10,000	18.00/M	04025A151JAT2A
	C0G (NP0)	50V	150pF	±10%	0.56	478-5127-1-ND	6.38	37.70	108.75	478-5127-2-ND	10,000	104.00/M	04025A151KAT2A
	C0G (NP0)	50V	180pF	±5%	0.56	478-1085-1-ND	.88	5.20	15.00	478-1085-2-ND	10,000	14.00/M	04025A181JAT2A
	C0G (NP0)	50V	220pF	±5%	0.56	478-1086-1-ND	.66	3.90	11.25	478-1086-2-ND	10,000	11.00/M	04025A221JAT2A
	C0G (NP0)	25V	220pF	±5%	0.56	478-5125-1-ND	3.30	19.50	56.25	478-5125-2-ND	10,000	54.00/M	04023A221JAT2A
	C0G (NP0)	25V	270pF	±5%	0.56	478-1087-1-ND	6.60	39.00	112.50	478-1087-2-ND	10,000	108.00/M	04023A271JAT2A
	C0G (NP0)	25V	330pF	±5%	0.56	478-1088-1-ND	6.60	39.00	112.50	478-1088-2-ND	10,000	108.00/M	04023A331JAT2A
	X7R	50V	100pF	±10%	0.56	478-1089-1-ND	2.20	13.00	37.50	478-1089-2-ND	10,000	36.00/M	04025C101KAT2A
	X7R	50V	120pF	±10%	0.56	478-1090-1-ND	.77	4.55	13.13	478-1090-2-ND	10,000	13.00/M	04025C121KAT2A
	X7R	50V	150pF	±10%	0.56	478-1091-1-ND	1.10	6.50	18.75	478-1091-2-ND	10,000	18.00/M	04025C151KAT2A
	X7R	50V	180pF	±10%	0.56	478-1092-1-ND	1.10	6.50	18.75	478-1092-2-ND	10,000	18.00/M	04025C181KAT2A
	X7R	50V	220pF	±10%	0.56	478-1093-1-ND	3.30	19.50	56.25	478-1093-2-ND	10,000	54.00/M	04025C221KAT2A
	X7R	50V	270pF	±10%	0.56	478-1094-1-ND	3.30	19.50	56.25	478-1094-2-ND	10,000	54.00/M	04025C271KAT2A
	X7R	50V	330pF	±10%	0.56	478-1095-1-ND	3.30	19.50	56.25	478-1095-2-ND	10,000	54.00/M	04025C331KAT2A
	X7R	50V	330pF	±5%	0.56	478-3662-1-ND	4.18	24.70	71.25	478-3662-2-ND	10,000	62.00/M	04025C331JAT2A
	X7R	50V	390pF	±5%	0.56	478-5269-1-ND	4.18	24.70	71.25	478-5269-2-ND	10,000	68.00/M	04025C391JAT2A
	X7R	50V	390pF	±10%	0.56	478-1096-1-ND	1.10	6.50	18.75	478-1096-2-ND	10,000	18.00/M	04025C391KAT2A
	X7R	50V	470pF	±10%	0.56	478-1097-1-ND	3.30	19.50	56.25	478-1097-2-ND	10,000	54.00/M	04025C471KAT2A
	X7R	50V	470pF	±5%	0.56	478-3663-1-ND	4.18	24.70	71.25	478-3663-2-ND	10,000	62.00/M	04025C471JAT2A
	X7R	50V	560pF	±10%	0.56	478-1098-1-ND	1.10	6.50	18.75	478-1098-2-ND	10,000	18.00/M	04025C561KAT2A
	X7R	50V	680pF	±5%	0.56	478-5270-1-ND	4.18	24.70	71.25	478-5270-2-ND	10,000	68.00/M	04025C681JAT2A
	X7R	50V	680pF	±10%	0.56	478-1099-1-ND	1.10	6.50	18.75	478-1099-2-ND	10,000	18.00/M	04025C681KAT2A
	X7R	50V	820pF	±10%	0.56	478-1100-1-ND	1.10	6.50	18.75	478-1100-2-ND	10,000	18.00/M	04025C821KAT2A
	X7R	50V	1000pF	±5%	0.56	478-3661-1-ND	.44	2.60	7.50	478-3661-2-ND	10,000	7.00/M	04025C102JAT2A
	X7R	50V	1000pF	±10%	0.56	478-1101-1-ND	.55	3.25	9.38	478-1101-2-ND	10,000	9.00/M	04025C102KAT2A
	X7R	50V	1000pF	±20%	0.56	478-5130-1-ND	.61	3.58	10.31	478-5130-2-ND	10,000	10.00/M	04025C102MAT2A
	X7R	50V	1200pF	±10%	0.56	478-1102-1-ND	1.10	6.50	18.75	478-1102-2-ND	10,000	18.00/M	04025C122KAT2A
	X7R	50V	1500pF	±5%	0.56	478-6019-1-ND ***NEW!***	.83	4.88	14.06	478-6019-2-ND ***NEW!***	10,000	14.00/M	04025C152JAT2A
	X7R	50V	1500pF	±10%	0.56	478-1103-1-ND	3.30	19.50	56.25	478-1103-2-ND	10,000	54.00/M	04025C152KAT2A
	X7R	50V	1800pF	±10%	0.56	478-1104-1-ND ***NEW!***	.55	3.25	9.38	478-1104-2-ND ***NEW!***	10,000	9.00/M	04025C182KAT2A
	X7R	50V	2200pF	±5%	0.56	478-5131-1-ND	4.18	24.70	71.25	478-5131-2-ND	10,000	68.00/M	04025C222JAT2A
	X7R	50V	2200pF	±10%	0.56	478-1105-1-ND	2.75	16.25	46.88	478-1105-2-ND	10,000	45.00/M	04025C222KAT2A
	X7R	50V	2700pF	±10%	0.56	478-1106-1-ND	3.30	19.50	56.25	478-1106-2-ND	10,000	54.00/M	04025C272KAT2A
	X7R	50V	3300pF	±5%	0.56	478-5132-1-ND	6.82	40.30	116.25	478-5132-2-ND	10,000	112.00/M	04025C332JAT2A
	X7R	50V	3300pF	±10%	0.56	478-1107-1-ND	1.10	6.50	18.75	478-1107-2-ND	10,000	18.00/M	04025C332KAT2A
	X7R	50V	3900pF	±10%	0.56	478-1108-1-ND	3.30	19.50	56.25	478-1108-2-ND	10,000	54.00/M	04025C392KAT2A
	X7R	50V	4700pF	±5%	0.56	478-5767-1-ND ***NEW!***	4.18	24.70	71.25	478-5767-2-ND ***NEW!***	10,000	68.00/M	04025C472JAT2A
	X7R	50V	4700pF	±10%	0.56	478-1109-1-ND	1.10	6.50	18.75	478-1109-2-ND	10,000	18.00/M	04025C472KAT2A
	X7R	50V	5600pF	±10%	0.56	478-1110-1-ND	2.20	13.00	37.50	478-1110-2-ND	10,000	36.00/M	04025C562KAT2A
	X7R	50V	6800pF	±10%	0.56	478-1111-1-ND	2.20	13.00	37.50	478-1111-2-ND	10,000	36.00/M	04025C682KAT2A
	X7R	50V	8200pF	±10%	0.56	478-1112-1-ND	2.20	13.00	37.50	478-1112-2-ND	10,000	36.00/M	04025C822KAT2A
	X7R	25V	10000pF	±10%	0.56	478-1113-1-ND	3.30	19.50	56.25	478-1113-2-ND	10,000	54.00/M	04023C103KAT2A
	X7R	16V	10000pF	±5%	0.56	478-3664-1-ND	4.18	24.70	71.25	478-3664-2-ND	10,000	62.00/M	0402YC103JAT2A
	X7R	16V	10000pF	±20%	0.56	478-3665-1-ND	3.08	18.20	52.50	478-3665-2-ND	10,000	45.00/M	0402YC103MAT2A
	X7R	16V	10000pF	±10%	0.56	478-1114-1-ND	.28	1.63	4.69	478-1114-2-ND	10,000	5.00/M	0402YC103KAT2A
	X7R	16V	12000pF	±10%	0.56	478-1115-1-ND	.66	3.90	11.25	478-1115-2-ND	10,000	11.00/M	0402YC123KAT2A
	X7R	16V	15000pF	±10%	0.56	478-1116-1-ND	1.10	6.50	18.75	478-1116-2-ND	10,000	18.00/M	0402YC153KAT2A
	X7R	16V	18000pF	±10%	0.56	478-1117-1-ND	1.10	6.50	18.75	478-1117-2-ND	10,000	18.00/M	0402YC183KAT2A
	X7R	16V	22000pF	±5%	0.56	478-3666-1-ND	4.18	24.70	71.25	478-3666-2-ND	10,000	62.00/M	0402YC223JAT2A
	X7R	16V	22000pF	±10%	0.56	478-1118-1-ND	1.10	6.50	18.75	478-1118-2-ND	10,000	18.00/M	0402YC223KAT2A
	X7R	10V	27000pF	±10%	0.56	478-1119-1-ND	4.18	24.70	71.25	478-1119-2-ND	10,000	68.00/M	0402ZC273KAT2A
	X7R	10V	33000pF	±10%	0.56	478-1120-1-ND	4.40	26.00	75.00	478-1120-2-ND	10,000	72.00/M	0402ZC333KAT2A
	X7R	10V	39000pF	±10%	0.56	478-1121-1-ND	4.40	26.00	75.00	478-1121-2-ND	10,000	72.00/M	0402ZC393KAT2A
	X5R	25V	10000pF	±10%	0.56	478-5267-1-ND	3.30	19.50	56.25	478-5267-2-ND	10,000	54.00/M	04023D103KAT2A
	X5R	16V	6800pF	±10%	0.56	478-5876-1-ND ***NEW!***	3.85	22.75	65.63	478-5876-2-ND ***NEW!***	10,000	63.00/M	0402YD682KAT2A
	X5R	16V	27000pF	±10%	0.56	478-1122-1-ND	1.10	6.50	18.75	478-1122-2-ND	10,000	18.00/M	0402YD273KAT2A
	X5R	16V	33000pF	±10%	0.56	478-1123-1-ND	1.10	6.50	18.75	478-1123-2-ND	10,000	18.00/M	0402YD333KAT2A
	X5R	16V	39000pF	±10%	0.56	478-1124-1-ND	1.10	6.50	18.75	478-1124-2-ND	10,000	18.00/M	0402YD393KAT2A
	X5R	16V	47000pF	±10%	0.56	478-1125-1-ND	1.10	6.50	18.75	478-1125-2-ND	10,000	18.00/M	0402YD473KAT2A
	X5R	16V	.10µF	±10%	0.56	478-1126-1-ND	2.20	13.00	37.50	478-1126-2-ND	10,000	36.00/M	0402YD104KAT2A
	X5R	16V	.10µF	±20%	0.56	478-5271-1-ND	10.32	60.97	175.88	478-5271-2-ND	10,000	169.00/M	0402YD104MAT2A
	X5R	10V	47000pF	±10%	0.56	478-3667-1-ND	1.10	6.50	18.75	478-3667-2-ND	10,000	18.00/M	0402ZD473KAT2A
	X5R	10V	68000pF	±10%	0.56	478-1128-1-ND	1.10	6.50	18.75	478-1128-2-ND	10,000	18.00/M	0402ZD683KAT2A
	X5R	10V	.10µF	±10%	0.56	478-1129-1-ND	.77	4.55	13.13	478-1129-2-ND	10,000	13.00/M	0402ZD104KAT2A
	X5R	10V	.22µF	±10%	0.56	478-6020-1-ND ***NEW!***	9.79	57.85	166.88	478-6020-2-ND ***NEW!***	10,000	160.00/M	0402ZD224KAT2A
	X5R	10V	1.0µF	±10%	0.56	478-4596-1-ND	4.03	33.56	111.88	478-4596-2-ND	10,000	106.00/M	0402ZD105KAT2A
	X5R	10V	1.0µF	±20%	0.56	478-5768-1-ND ***NEW!***	8.36	49.40	142.50	478-5768-2-ND ***NEW!***	10,000	137.00/M	0402ZD105MAT2A
	X5R	6.3V	.22µF	±10%	0.56	478-1132-1-ND	1.65	9.75	28.13	478-1132-2-ND	10,000	27.00/M	04026D224KAT2A
	X5R	6.3V	1.0µF	±10%	0.56	478-2583-1-ND	.66	3.90	11.25	478-2583-2-ND	10,000	11.00/M	04026D105KAT2A
	X5R	6.3V	1.0µF	±20%	0.56	478-5315-1-ND	3.30	19.50	56.25	478-5315-2-ND	10,000	54.00/M	04026D105MAT2A
	X5R	4.0V	2.2µF	±20%	0.56	478-4524-1-ND	3.60	30.00	100.00	478-4524-2-ND	10,000	94.00/M	04024D225MAT2A
	Y5V	50V	10000pF	+80 -20%	0.56	478-1133-1-ND	2.20	13.00	37.50	478-1133-2-ND	10,000	36.00/M	04025G103ZAT2A
	Y5V	16V	47000pF	+80 -20%	0.56	478-1136-1-ND	2.20	13.00	37.50	478-1136-2-ND	10,000	36.00/M	0402YG473ZAT2A
	Y5V	16V	68000pF	+80 -20%	0.56	478-1137-1-ND	2.20	13.00	37.50	478-1137-2-ND	10,000	36.00/M	0402YG683ZAT2A
	Y5V	16V	.10µF	+80 -20%	0.56	478-1138-1-ND	1.10	6.50	18.75	478-1138-2-ND	10,000	18.00/M	0402YG104ZAT2A
	Y5V	10V	.22µF	+80 -20%	0.56	478-1139-1-ND	2.20	13.00	37.50	478-1139-2-ND	10,000	36.00/M	0402ZG224ZAT2A
0603	C0G (NP0)	100V	.5pF	±.25pF	0.90	478-4980-1-ND	2.20	13.00	37.50	478-4980-2-ND	4,000	36.00/M	06031A0R5CAT2A
	C0G (NP0)	100V	1.0pF	±.10pF	0.90	478-3677-1-ND	9.90	58.50	168.75	478-3677-2-ND	4,000	146.00/M	06031A1R0BAT2A
	C0G (NP0)	100V	1.0pF	±.25pF	0.90	478-4983-1-ND	2.20	13.00	37.50	478-4983-2-ND	4,000	36.00/M	06031A1R0CAT2A
	C0G (NP0)	100V	1.2pF	±.25pF	0.90	478-5134-1-ND	2.20	13.00	37.50	478-5134-2-ND	4,000	36.00/M	06031A1R2CAT2A
	C0G (NP0)	100V	1.5pF	±.25pF	0.90	478-4984-1-ND	2.20	13.00	37.50	478-4984-2-ND	4,000	36.00/M	06031A1R5CAT2A
	C0G (NP0)	100V	1.8pF	±.25pF	0.90	478-4985-1-ND	2.20	13.00	37.50	478-4985-2-ND	4,000	36.00/M	06031A1R8CAT2A
	C0G (NP0)	100V	2.0pF	±.25pF	0.90	478-3685-1-ND	2.20	13.00	37.50	478-3685-2-ND	4,000	32.00/M	06031A2R0CAT2A
	C0G (NP0)	100V	2.2pF	±.10pF	0.90	478-3686-1-ND	9.90	58.50	168.75	478-3686-2-ND	4,000	146.00/M	06031A2R2BAT2A
	C0G (NP0)	100V	2.2pF	±.25pF	0.90	478-4987-1-ND	2.20	13.00	37.50	478-4987-2-ND	4,000	36.00/M	06031A2R2CAT2A
	C0G (NP0)	100V	2.7pF	±.25pF	0.90	478-4988-1-ND	2.20	13.00	37.50	478-4988-2-ND	4,000	36.00/M	06031A2R7CAT2A
	C0G (NP0)	100V	3.0pF	±.25pF	0.90	478-3690-1-ND	2.20	13.00	37.50	478-3690-2-ND	4,000	32.00/M	06031A3R0CAT2A
	C0G (NP0)	100V	3.3pF	±.10pF	0.90	478-5137-1-ND	9.90	58.50	168.75	478-5137-2-ND	4,000	162.00/M	06031A3R3BAT2A
	C0G (NP0)	100V	3.3pF	±.25pF	0.90	478-4990-1-ND	2.20	13.00	37.50	478-4990-2-ND	4,000	36.00/M	06031A3R3CAT2A

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	100V	3.9pF	±.25pF	0.90	478-4991-1-ND	2.20	13.00	37.50	478-4991-2-ND	4,000	36.00/M	06031A3R9CAT2A
	C0G (NP0)	100V	4.0pF	±.25pF	0.90	478-3693-1-ND	2.20	13.00	37.50	478-3693-2-ND	4,000	32.00/M	06031A4R0CAT2A
	C0G (NP0)	100V	4.7pF	±.10pF	0.90	478-3694-1-ND	9.90	58.50	168.75	478-3694-2-ND	4,000	146.00/M	06031A4R7BAT2A
	C0G (NP0)	100V	4.7pF	±.25pF	0.90	478-4992-1-ND	2.20	13.00	37.50	478-4992-2-ND	4,000	36.00/M	06031A4R7CAT2A
	C0G (NP0)	100V	5.0pF	±.25pF	0.90	478-3696-1-ND	2.20	13.00	37.50	478-3696-2-ND	4,000	32.00/M	06031A5R0CAT2A
	C0G (NP0)	100V	5.6pF	±.25pF	0.90	478-4994-1-ND	2.20	13.00	37.50	478-4994-2-ND	4,000	36.00/M	06031A5R6CAT2A
	C0G (NP0)	100V	6.8pF	±.25pF	0.90	478-4995-1-ND	2.20	13.00	37.50	478-4995-2-ND	4,000	36.00/M	06031A6R8CAT2A
	C0G (NP0)	100V	6.8pF	±0.5pF	0.90	478-6026-1-ND ***NEW!***	1.21	7.15	20.63	478-6026-2-ND ***NEW!***	4,000	20.00/M	06031A6R8DAT2A
	C0G (NP0)	100V	8.0pF	±.25pF	0.90	478-3697-1-ND	2.20	13.00	37.50	478-3697-2-ND	4,000	32.00/M	06031A8R0CAT2A
	C0G (NP0)	100V	8.2pF	±.25pF	0.90	478-4997-1-ND	2.20	13.00	37.50	478-4997-2-ND	4,000	36.00/M	06031A8R2CAT2A
	C0G (NP0)	100V	10pF	±.25pF	0.90	478-3668-1-ND	4.29	25.35	73.13	478-3668-2-ND	4,000	63.00/M	06031A100CAT2A
	C0G (NP0)	100V	10pF	±1%	0.90	478-5769-1-ND ***NEW!***	6.60	39.00	112.50	478-5769-2-ND ***NEW!***	4,000	108.00/M	06031A100FAT2A
	C0G (NP0)	100V	10pF	±2%	0.90	478-3669-1-ND	5.50	32.50	93.75	478-3669-2-ND	4,000	81.00/M	06031A100GAT2A
	C0G (NP0)	100V	10pF	±0.5pF	0.90	478-5904-1-ND ***NEW!***	1.10	6.50	18.75	478-5904-2-ND ***NEW!***	4,000	18.00/M	06031A100DAT2A
	C0G (NP0)	100V	10pF	±5%	0.90	478-1140-1-ND	2.09	12.35	35.63	478-1140-2-ND	4,000	34.00/M	06031A100JAT2A
	C0G (NP0)	100V	10pF	±10%	0.90	478-3670-1-ND	1.98	11.70	33.75	478-3670-2-ND	4,000	20.00/M	06031A100KAT2A
	C0G (NP0)	100V	12pF	±5%	0.90	478-4981-1-ND	2.09	12.35	35.63	478-4981-2-ND	4,000	34.00/M	06031A120JAT2A
	C0G (NP0)	100V	13pF	±5%	0.90	478-3674-1-ND	2.09	12.35	35.63	478-3674-2-ND	4,000	31.00/M	06031A130JAT2A
	C0G (NP0)	100V	15pF	±1%	0.90	478-6024-1-ND ***NEW!***	6.60	39.00	112.50	478-6024-2-ND ***NEW!***	4,000	108.00/M	06031A150FAT2A
	C0G (NP0)	100V	15pF	±5%	0.90	478-1141-1-ND	1.10	6.50	18.75	478-1141-2-ND	4,000	18.00/M	06031A150JAT2A
	C0G (NP0)	100V	15pF	±10%	0.90	478-3675-1-ND	1.98	11.70	33.75	478-3675-2-ND	4,000	29.00/M	06031A150KAT2A
	C0G (NP0)	100V	18pF	±2%	0.90	478-6025-1-ND ***NEW!***	5.50	32.50	93.75	478-6025-2-ND ***NEW!***	4,000	90.00/M	06031A180GAT2A
	C0G (NP0)	100V	18pF	±5%	0.90	478-4982-1-ND	1.21	7.15	20.63	478-4982-2-ND	4,000	20.00/M	06031A180JAT2A
	C0G (NP0)	100V	18pF	±10%	0.90	478-5133-1-ND	1.98	11.70	33.75	478-5133-2-ND	4,000	32.00/M	06031A180KAT2A
	C0G (NP0)	100V	20pF	±5%	0.90	478-3678-1-ND	2.09	12.35	35.63	478-3678-2-ND	4,000	31.00/M	06031A200JAT2A
	C0G (NP0)	100V	22pF	±1%	0.90	478-5771-1-ND ***NEW!***	6.60	39.00	112.50	478-5771-2-ND ***NEW!***	4,000	108.00/M	06031A220FAT2A
	C0G (NP0)	100V	22pF	±2%	0.90	478-5135-1-ND	5.50	32.50	93.75	478-5135-2-ND	4,000	90.00/M	06031A220GAT2A
	C0G (NP0)	100V	22pF	±5%	0.90	478-1142-1-ND	1.10	6.50	18.75	478-1142-2-ND	4,000	18.00/M	06031A220JAT2A
	C0G (NP0)	100V	22pF	±10%	0.90	478-3679-1-ND	1.98	11.70	33.75	478-3679-2-ND	4,000	20.00/M	06031A220KAT2A
	C0G (NP0)	100V	27pF	±1%	0.90	478-3681-1-ND	6.60	39.00	112.50	478-3681-2-ND	4,000	97.00/M	06031A270FAT2A
	C0G (NP0)	100V	27pF	±2%	0.90	478-3682-1-ND	5.50	32.50	93.75	478-3682-2-ND	4,000	81.00/M	06031A270GAT2A
	C0G (NP0)	100V	27pF	±5%	0.90	478-4986-1-ND	1.98	11.70	33.75	478-4986-2-ND	4,000	32.00/M	06031A270JAT2A
	C0G (NP0)	100V	27pF	±10%	0.90	478-3683-1-ND	1.98	11.70	33.75	478-3683-2-ND	4,000	20.00/M	06031A270KAT2A
	C0G (NP0)	100V	30pF	±5%	0.90	478-3687-1-ND	2.09	12.35	35.63	478-3687-2-ND	4,000	31.00/M	06031A300JAT2A
	C0G (NP0)	100V	33pF	±1%	0.90	478-3688-1-ND	6.60	39.00	112.50	478-3688-2-ND	4,000	97.00/M	06031A330FAT2A
	C0G (NP0)	100V	33pF	±2%	0.90	478-5136-1-ND	5.50	32.50	93.75	478-5136-2-ND	4,000	90.00/M	06031A330GAT2A
	C0G (NP0)	100V	33pF	±5%	0.90	478-1143-1-ND	1.10	6.50	18.75	478-1143-2-ND	4,000	18.00/M	06031A330JAT2A
	C0G (NP0)	100V	33pF	±10%	0.90	478-3689-1-ND	1.98	11.70	33.75	478-3689-2-ND	4,000	20.00/M	06031A330KAT2A
	C0G (NP0)	100V	39pF	±1%	0.90	478-5773-1-ND ***NEW!***	6.60	39.00	112.50	478-5773-2-ND ***NEW!***	4,000	108.00/M	06031A390FAT2A
	C0G (NP0)	100V	39pF	±5%	0.90	478-4989-1-ND	.99	5.85	16.88	478-4989-2-ND	4,000	16.00/M	06031A390JAT2A
	C0G (NP0)	100V	47pF	±1%	0.90	478-3691-1-ND	6.60	39.00	112.50	478-3691-2-ND	4,000	97.00/M	06031A470FAT2A
	C0G (NP0)	100V	47pF	±2%	0.90	478-5138-1-ND	5.50	32.50	93.75	478-5138-2-ND	4,000	90.00/M	06031A470GAT2A
	C0G (NP0)	100V	47pF	±5%	0.90	478-1144-1-ND	1.10	6.50	18.75	478-1144-2-ND	4,000	18.00/M	06031A470JAT2A
	C0G (NP0)	100V	47pF	±10%	0.90	478-3692-1-ND	1.98	11.70	33.75	478-3692-2-ND	4,000	20.00/M	06031A470KAT2A
	C0G (NP0)	100V	51pF	±5%	0.90	478-3695-1-ND	2.09	12.35	35.63	478-3695-2-ND	4,000	31.00/M	06031A510JAT2A
	C0G (NP0)	100V	56pF	±2%	0.90	478-5139-1-ND	5.50	32.50	93.75	478-5139-2-ND	4,000	90.00/M	06031A560GAT2A
	C0G (NP0)	100V	56pF	±5%	0.90	478-4993-1-ND	2.09	12.35	35.63	478-4993-2-ND	4,000	34.00/M	06031A560JAT2A
	C0G (NP0)	100V	68pF	±1%	0.90	478-5774-1-ND ***NEW!***	6.60	39.00	112.50	478-5774-2-ND ***NEW!***	4,000	108.00/M	06031A680FAT2A
	C0G (NP0)	100V	68pF	±5%	0.90	478-1145-1-ND	1.10	6.50	18.75	478-1145-2-ND	4,000	18.00/M	06031A680JAT2A
	C0G (NP0)	100V	82pF	±5%	0.90	478-4996-1-ND	2.09	12.35	35.63	478-4996-2-ND	4,000	34.00/M	06031A820JAT2A
	C0G (NP0)	100V	100pF	±5%	0.90	478-1146-1-ND	1.10	6.50	18.75	478-1146-2-ND	4,000	18.00/M	06031A101JAT2A
	C0G (NP0)	100V	100pF	±1%	0.90	478-3671-1-ND	6.60	39.00	112.50	478-3671-2-ND	4,000	97.00/M	06031A101FAT2A
	C0G (NP0)	100V	100pF	±2%	0.90	478-6022-1-ND ***NEW!***	5.28	31.20	90.00	478-6022-2-ND ***NEW!***	4,000	86.00/M	06031A101GAT2A
	C0G (NP0)	100V	100pF	±10%	0.90	478-3672-1-ND	1.98	11.70	33.75	478-3672-2-ND	4,000	20.00/M	06031A101KAT2A
	C0G (NP0)	100V	120pF	±5%	0.90	478-3673-1-ND	2.09	12.35	35.63	478-3673-2-ND	4,000	31.00/M	06031A121JAT2A
	C0G (NP0)	100V	120pF	±10%	0.90	478-6023-1-ND ***NEW!***	1.98	11.70	33.75	478-6023-2-ND ***NEW!***	4,000	32.00/M	06031A121KAT2A
	C0G (NP0)	100V	150pF	±5%	0.90	478-1147-1-ND	4.95	29.25	84.38	478-1147-2-ND	4,000	81.00/M	06031A151JAT2A
	C0G (NP0)	100V	150pF	±10%	0.90	478-3676-1-ND	2.20	13.00	37.50	478-3676-2-ND	4,000	22.00/M	06031A151KAT2A
	C0G (NP0)	100V	180pF	±5%	0.90	478-5770-1-ND ***NEW!***	1.98	11.70	33.75	478-5770-2-ND ***NEW!***	4,000	32.00/M	06031A181JAT2A
	C0G (NP0)	100V	220pF	±1%	0.90	478-5772-1-ND ***NEW!***	18.70	110.50	318.75	478-5772-2-ND ***NEW!***	4,000	306.00/M	06031A221FAT2A
	C0G (NP0)	100V	220pF	±5%	0.90	478-1148-1-ND	2.31	13.65	39.38	478-1148-2-ND	4,000	38.00/M	06031A221JAT2A
	C0G (NP0)	100V	220pF	±10%	0.90	478-3680-1-ND	2.20	13.00	37.50	478-3680-2-ND	4,000	24.00/M	06031A221KAT2A
	C0G (NP0)	100V	270pF	±5%	0.90	478-3684-1-ND	4.18	24.70	71.25	478-3684-2-ND	4,000	62.00/M	06031A271JAT2A
	C0G (NP0)	100V	330pF	±5%	0.90	478-1149-1-ND	4.18	24.70	71.25	478-1149-2-ND	4,000	68.00/M	06031A331JAT2A
	C0G (NP0)	50V	.5pF	±.25pF	0.90	478-1150-1-ND	1.32	7.80	22.50	478-1150-2-ND	4,000	22.00/M	06035A0R5CAT2A
	C0G (NP0)	50V	1.0pF	±.25pF	0.90	478-1151-1-ND	.66	3.90	11.25	478-1151-2-ND	4,000	11.00/M	06035A1R0CAT2A
	C0G (NP0)	50V	1.2pF	±.25pF	0.90	478-1152-1-ND	2.09	12.35	35.63	478-1152-2-ND	4,000	34.00/M	06035A1R2CAT2A
	C0G (NP0)	50V	1.5pF	±.25pF	0.90	478-1153-1-ND	2.09	12.35	35.63	478-1153-2-ND	4,000	34.00/M	06035A1R5CAT2A
	C0G (NP0)	50V	1.8pF	±.25pF	0.90	478-1154-1-ND	2.09	12.35	35.63	478-1154-2-ND	4,000	34.00/M	06035A1R8CAT2A
	C0G (NP0)	50V	2.0pF	±.25pF	0.90	478-5895-1-ND ***NEW!***	1.32	7.80	22.50	478-5895-2-ND ***NEW!***	4,000	22.00/M	06035A2R0CAT2A
	C0G (NP0)	50V	2.2pF	±.25pF	0.90	478-1155-1-ND	2.09	12.35	35.63	478-1155-2-ND	4,000	34.00/M	06035A2R2CAT2A
	C0G (NP0)	50V	2.7pF	±.25pF	0.90	478-1156-1-ND	2.09	12.35	35.63	478-1156-2-ND	4,000	34.00/M	06035A2R7CAT2A
	C0G (NP0)	50V	3.3pF	±.25pF	0.90	478-1157-1-ND	2.09	12.35	35.63	478-1157-2-ND	4,000	34.00/M	06035A3R3CAT2A
	C0G (NP0)	50V	3.9pF	±.25pF	0.90	478-1158-1-ND	2.09	12.35	35.63	478-1158-2-ND	4,000	34.00/M	06035A3R9CAT2A
	C0G (NP0)	50V	4.7pF	±.25pF	0.90	478-1159-1-ND	2.09	12.35	35.63	478-1159-2-ND	4,000	34.00/M	06035A4R7CAT2A
	C0G (NP0)	50V	5.6pF	±.25pF	0.90	478-1160-1-ND	2.09	12.35	35.63	478-1160-2-ND	4,000	34.00/M	06035A5R6CAT2A
	C0G (NP0)	50V	6.8pF	±.25pF	0.90	478-1161-1-ND	.99	5.85	16.88	478-1161-2-ND	4,000	16.00/M	06035A6R8CAT2A
	C0G (NP0)	50V	8.2pF	±.25pF	0.90	478-1162-1-ND	2.09	12.35	35.63	478-1162-2-ND	4,000	34.00/M	06035A8R2CAT2A
	C0G (NP0)	50V	10pF	±5%	0.90	478-1163-1-ND	.99	5.85	16.88	478-1163-2-ND	4,000	16.00/M	06035A100JAT2A
	C0G (NP0)	50V	12pF	±5%	0.90	478-1164-1-ND	.61	3.58	10.31	478-1164-2-ND	4,000	10.00/M	06035A120JAT2A
	C0G (NP0)	50V	15pF	±5%	0.90	478-1165-1-ND	1.10	6.50	18.75	478-1165-2-ND	4,000	18.00/M	06035A150JAT2A
	C0G (NP0)	50V	18pF	±5%	0.90	478-1166-1-ND	.55	3.25	9.38	478-1166-2-ND	4,000	9.00/M	06035A180JAT2A
	C0G (NP0)	50V	22pF	±5%	0.90	478-1167-1-ND	.72	4.23	12.19	478-1167-2-ND	4,000	12.00/M	06035A220JAT2A
	C0G (NP0)	50V	27pF	±5%	0.90	478-1168-1-ND	.61	3.58	10.31	478-1168-2-ND	4,000	10.00/M	06035A270JAT2A
	C0G (NP0)	50V	33pF	±5%	0.90	478-1169-1-ND	.61	3.58	10.31	478-1169-2-ND	4,000	10.00/M	06035A330JAT2A
	C0G (NP0)	50V	39pF	±5%	0.90	478-1170-1-ND	.88	5.20	15.00	478-1170-2-ND	4,000	14.00/M	06035A390JAT2A
	C0G (NP0)	50V	47pF	±5%	0.90	478-1171-1-ND	.61	3.58	10.31	478-1171-2-ND	4,000	10.00/M	06035A470JAT2A
	C0G (NP0)	50V	56pF	±5%	0.90	478-1172-1-ND	.61	3.58	10.31	478-1172-2-ND	4,000	10.00/M	06035A560JAT2A
	C0G (NP0)	50V	68pF	±5%	0.90	478-1173-1-ND	.88	5.20	15.00	478-1173-2-ND	4,000	14.00/M	06035A680JAT2A
	C0G (NP0)	50V	82pF	±5%	0.90	478-1174-1-ND	.61	3.58	10.31	478-1174-2-ND	4,000	10.00/M	06035A820JAT2A
	C0G (NP0)	50V	100pF	±5%	0.90	478-1175-1-ND	.72	4.23	12.19	478-1175-2-ND	4,000	12.00/M	06035A101JAT2A
	C0G (NP0)	50V	100pF	±10%	0.90	478-3717-1-ND	1.98	11.70	33.75	478-3717-2-ND	4,000	20.00/M	06035A101KAT2A
	C0G (NP0)	50V	120pF	±5%	0.90	478-1176-1-ND	2.20	13.00	37.50	478-1176-2-ND	4,000	36.00/M	06035A121JAT2A
	C0G (NP0)	50V	150pF	±5%	0.90	478-1177-1-ND	.61	3.58	10.31	478-1177-2-ND	4,000	10.00/M	06035A151JAT2A
	C0G (NP0)	50V	150pF	±10%	0.90	478-5143-1-ND	2.20	13.00	37.50	478-5143-2-ND	4,000	36.00/M	06035A151KAT2A
	C0G (NP0)	50V	180pF	±1%	0.90	478-6029-1-ND ***NEW!***	6.60	39.00	112.50	478-6029-2-ND ***NEW!***	4,000	108.00/M	06035A181FAT2A
	C0G (NP0)	50V	180pF	±5%	0.90	478-1178-1-ND	.63	3.71	10.69	478-1178-2-ND	4,000	10.00/M	06035A181JAT2A
	C0G (NP0)	50V	200pF	±1%	0.90	478-6030-1-ND ***NEW!***	6.60	39.00	112.50	478-6030-2-ND ***NEW!***	4,000	108.00/M	06035A201FAT2A

(Continued)

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	50V	220pF	±5%	0.90	478-1179-1-ND	.61	3.58	10.31	478-1179-2-ND	4,000	10.00/M	06035A221JAT2A
	C0G (NP0)	50V	220pF	±1%	0.90	478-3719-1-ND	6.60	39.00	112.50	478-3719-2-ND	4,000	97.00/M	06035A221FAT2A
	C0G (NP0)	50V	270pF	±5%	0.90	478-1180-1-ND	.72	4.23	12.19	478-1180-2-ND	4,000	12.00/M	06035A271JAT2A
	C0G (NP0)	50V	330pF	±1%	0.90	478-6031-1-ND ***NEW!***	5.50	32.50	93.75	478-6031-2-ND ***NEW!***	4,000	90.00/M	06035A331FAT2A
	C0G (NP0)	50V	330pF	±2%	0.90	478-5776-1-ND ***NEW!***	5.50	32.50	93.75	478-5776-2-ND ***NEW!***	4,000	90.00/M	06035A331GAT2A
	C0G (NP0)	50V	330pF	±5%	0.90	478-1181-1-ND	.88	5.20	15.00	478-1181-2-ND	4,000	14.00/M	06035A331JAT2A
	C0G (NP0)	50V	330pF	±10%	0.90	478-5144-1-ND	2.20	13.00	37.50	478-5144-2-ND	4,000	36.00/M	06035A331KAT2A
	C0G (NP0)	50V	390pF	±5%	0.90	478-1182-1-ND	1.10	6.50	18.75	478-1182-2-ND	4,000	18.00/M	06035A391JAT2A
	C0G (NP0)	50V	470pF	±1%	0.90	478-5777-1-ND ***NEW!***	19.80	117.00	337.50	478-5777-2-ND ***NEW!***	4,000	324.00/M	06035A471FAT2A
	C0G (NP0)	50V	470pF	±5%	0.90	478-1183-1-ND	.88	5.20	15.00	478-1183-2-ND	4,000	14.00/M	06035A471JAT2A
	C0G (NP0)	50V	470pF	±10%	0.90	478-3720-1-ND	1.43	8.45	24.38	478-3720-2-ND	4,000	23.00/M	06035A471KAT2A
	C0G (NP0)	50V	560pF	±2%	0.90	478-6032-1-ND ***NEW!***	5.50	32.50	93.75	478-6032-2-ND ***NEW!***	4,000	90.00/M	06035A561GAT2A
	C0G (NP0)	50V	560pF	±5%	0.90	478-1184-1-ND	1.10	6.50	18.75	478-1184-2-ND	4,000	18.00/M	06035A561JAT2A
	C0G (NP0)	50V	680pF	±1%	0.90	478-6033-1-ND ***NEW!***	19.80	117.00	337.50	478-6033-2-ND ***NEW!***	4,000	324.00/M	06035A681FAT2A
	C0G (NP0)	50V	680pF	±5%	0.90	478-1185-1-ND	2.20	13.00	37.50	478-1185-2-ND	4,000	36.00/M	06035A681JAT2A
	C0G (NP0)	50V	680pF	±10%	0.90	478-6034-1-ND ***NEW!***	2.20	13.00	37.50	478-6034-2-ND ***NEW!***	4,000	36.00/M	06035A681KAT2A
	C0G (NP0)	50V	820pF	±5%	0.90	478-1186-1-ND	1.10	6.50	18.75	478-1186-2-ND	4,000	18.00/M	06035A821JAT2A
	C0G (NP0)	50V	1000pF	±1%	0.90	478-5005-1-ND	19.80	117.00	337.50	478-5005-2-ND	4,000	324.00/M	06035A102FAT2A
	C0G (NP0)	50V	1000pF	±5%	0.90	478-1187-1-ND	1.65	9.75	28.13	478-1187-2-ND	4,000	27.00/M	06035A102JAT2A
	C0G (NP0)	50V	1000pF	±10%	0.90	478-3718-1-ND	3.52	20.80	60.00	478-3718-2-ND	4,000	52.00/M	06035A102KAT2A
	X7R	200V	220pF	±10%	0.90	478-1190-1-ND	1.10	6.50	18.75	478-1190-2-ND	4,000	18.00/M	06032C221KAT2A
	X7R	200V	330pF	±10%	0.90	478-1191-1-ND	1.10	6.50	18.75	478-1191-2-ND	4,000	18.00/M	06032C331KAT2A
	X7R	200V	470pF	±10%	0.90	478-1192-1-ND	1.10	6.50	18.75	478-1192-2-ND	4,000	18.00/M	06032C471KAT2A
	X7R	200V	680pF	±10%	0.90	478-1193-1-ND	1.10	6.50	18.75	478-1193-2-ND	4,000	18.00/M	06032C681KAT2A
	X7R	200V	1000pF	±10%	0.90	478-1194-1-ND	1.10	6.50	18.75	478-1194-2-ND	4,000	18.00/M	06032C102KAT2A
	X7R	100V	220pF	±5%	0.90	478-5775-1-ND ***NEW!***	2.97	17.55	50.63	478-5775-2-ND ***NEW!***	4,000	49.00/M	06031C221JAT2A
	X7R	100V	220pF	±10%	0.90	478-1195-1-ND	1.10	6.50	18.75	478-1195-2-ND	4,000	18.00/M	06031C221KAT2A
	X7R	100V	330pF	±10%	0.90	478-1196-1-ND	1.10	6.50	18.75	478-1196-2-ND	4,000	18.00/M	06031C331KAT2A
	X7R	100V	330pF	±5%	0.90	478-3707-1-ND	2.97	17.55	50.63	478-3707-2-ND	4,000	44.00/M	06031C331JAT2A
	X7R	100V	390pF	±10%	0.90	478-5140-1-ND	2.09	12.35	35.63	478-5140-2-ND	4,000	34.00/M	06031C391KAT2A
	X7R	100V	470pF	±10%	0.90	478-1197-1-ND	1.10	6.50	18.75	478-1197-2-ND	4,000	18.00/M	06031C471KAT2A
	X7R	100V	470pF	±5%	0.90	478-3709-1-ND	2.97	17.55	50.63	478-3709-2-ND	4,000	44.00/M	06031C471JAT2A
	X7R	100V	560pF	±10%	0.90	478-5002-1-ND	2.09	12.35	35.63	478-5002-2-ND	4,000	34.00/M	06031C561KAT2A
	X7R	100V	680pF	±10%	0.90	478-1198-1-ND	1.10	6.50	18.75	478-1198-2-ND	4,000	18.00/M	06031C681KAT2A
	X7R	100V	680pF	±5%	0.90	478-3712-1-ND	2.97	17.55	50.63	478-3712-2-ND	4,000	44.00/M	06031C681JAT2A
	X7R	100V	820pF	±10%	0.90	478-5141-1-ND	2.09	12.35	35.63	478-5141-2-ND	4,000	34.00/M	06031C821KAT2A
	X7R	100V	1000pF	±5%	0.90	478-3698-1-ND	2.97	17.55	50.63	478-3698-2-ND	4,000	44.00/M	06031C102JAT2A
	X7R	100V	1000pF	±20%	0.90	478-3699-1-ND	1.98	11.70	33.75	478-3699-2-ND	4,000	29.00/M	06031C102MAT2A
	X7R	100V	1000pF	±10%	0.90	478-1199-1-ND	.77	4.55	13.13	478-1199-2-ND	4,000	13.00/M	06031C102KAT2A
	X7R	100V	1200pF	±5%	0.90	478-3702-1-ND	2.97	17.55	50.63	478-3702-2-ND	4,000	44.00/M	06031C122JAT2A
	X7R	100V	1200pF	±10%	0.90	478-4998-1-ND	2.09	12.35	35.63	—	—	—	06031C122KAT2A
	X7R	100V	1500pF	±10%	0.90	478-1200-1-ND	2.09	12.35	35.63	478-1200-2-ND	4,000	34.00/M	06031C152KAT2A
	X7R	100V	1500pF	±5%	0.90	478-3703-1-ND	2.97	17.55	50.63	478-3703-2-ND	4,000	44.00/M	06031C152JAT2A
	X7R	100V	1800pF	±5%	0.90	478-3704-1-ND	2.97	17.55	50.63	478-3704-2-ND	4,000	44.00/M	06031C182JAT2A
	X7R	100V	1800pF	±10%	0.90	478-4999-1-ND	2.09	12.35	35.63	478-4999-2-ND	4,000	34.00/M	06031C182KAT2A
	X7R	100V	2200pF	±10%	0.90	478-1201-1-ND	2.09	12.35	35.63	478-1201-2-ND	4,000	34.00/M	06031C222KAT2A
	X7R	100V	2200pF	±5%	0.90	478-3705-1-ND	2.97	17.55	50.63	478-3705-2-ND	4,000	44.00/M	06031C222JAT2A
	X7R	100V	2700pF	±5%	0.90	478-3706-1-ND	2.97	17.55	50.63	478-3706-2-ND	4,000	44.00/M	06031C272JAT2A
	X7R	100V	2700pF	±10%	0.90	478-5000-1-ND	1.24	7.35	21.19	478-5000-2-ND	4,000	20.00/M	06031C272KAT2A
	X7R	100V	3300pF	±10%	0.90	478-1202-1-ND	2.09	12.35	35.63	478-1202-2-ND	4,000	34.00/M	06031C332KAT2A
	X7R	100V	3300pF	±5%	0.90	478-3708-1-ND	2.97	17.55	50.63	478-3708-2-ND	4,000	44.00/M	06031C332JAT2A
	X7R	100V	3900pF	±10%	0.90	478-5001-1-ND	2.09	12.35	35.63	478-5001-2-ND	4,000	34.00/M	06031C392KAT2A
	X7R	100V	4700pF	±10%	0.90	478-1203-1-ND	2.09	12.35	35.63	478-1203-2-ND	4,000	34.00/M	06031C472KAT2A
	X7R	100V	4700pF	±5%	0.90	478-3710-1-ND	2.97	17.55	50.63	478-3710-2-ND	4,000	44.00/M	06031C472JAT2A
	X7R	100V	5600pF	±5%	0.90	478-3711-1-ND	2.97	17.55	50.63	478-3711-2-ND	4,000	44.00/M	06031C562JAT2A
	X7R	100V	5600pF	±10%	0.90	478-5003-1-ND	2.09	12.35	35.63	478-5003-2-ND	4,000	34.00/M	06031C562KAT2A
	X7R	100V	6800pF	±5%	0.90	478-6027-1-ND ***NEW!***	2.97	17.55	50.63	478-6027-2-ND ***NEW!***	4,000	49.00/M	06031C682JAT2A
	X7R	100V	6800pF	±10%	0.90	478-1204-1-ND	2.09	12.35	35.63	478-1204-2-ND	4,000	34.00/M	06031C682KAT2A
	X7R	100V	8200pF	±10%	0.90	478-5004-1-ND	2.09	12.35	35.63	478-5004-2-ND	4,000	34.00/M	06031C822KAT2A
	X7R	100V	10000pF	±5%	0.90	478-3700-1-ND	2.97	17.55	50.63	478-3700-2-ND	4,000	44.00/M	06031C103JAT2A
	X7R	100V	10000pF	±20%	0.90	478-3701-1-ND	3.63	21.45	61.88	478-3701-2-ND	4,000	43.00/M	06031C103MAT2A
	X7R	100V	10000pF	±10%	0.90	478-1205-1-ND	4.51	26.65	76.88	478-1205-2-ND	4,000	74.00/M	06031C103KAT2A
	X7R	50V	180pF	±10%	0.90	478-1206-1-ND	2.09	12.35	35.63	478-1206-2-ND	4,000	34.00/M	06035C181KAT2A
	X7R	50V	220pF	±10%	0.90	478-1207-1-ND	2.09	12.35	35.63	478-1207-2-ND	4,000	34.00/M	06035C221KAT2A
	X7R	50V	270pF	±10%	0.90	478-1208-1-ND	2.09	12.35	35.63	478-1208-2-ND	4,000	34.00/M	06035C271KAT2A
	X7R	50V	330pF	±10%	0.90	478-1209-1-ND	2.09	12.35	35.63	478-1209-2-ND	4,000	34.00/M	06035C331KAT2A
	X7R	50V	390pF	±10%	0.90	478-1210-1-ND	2.09	12.35	35.63	478-1210-2-ND	4,000	34.00/M	06035C391KAT2A
	X7R	50V	470pF	±10%	0.90	478-1211-1-ND	.66	3.90	11.25	478-1211-2-ND	4,000	11.00/M	06035C471KAT2A
	X7R	50V	560pF	±10%	0.90	478-1212-1-ND	2.09	12.35	35.63	478-1212-2-ND	4,000	34.00/M	06035C561KAT2A
	X7R	50V	680pF	±10%	0.90	478-1213-1-ND	2.09	12.35	35.63	478-1213-2-ND	4,000	34.00/M	06035C681KAT2A
	X7R	50V	820pF	±10%	0.90	478-1214-1-ND	2.09	12.35	35.63	478-1214-2-ND	4,000	34.00/M	06035C821KAT2A
	X7R	50V	1000pF	±5%	0.90	478-5006-1-ND	1.21	7.15	20.63	478-5006-2-ND	4,000	20.00/M	06035C102JAT2A
	X7R	50V	1000pF	±10%	0.90	478-1215-1-ND	.55	3.25	9.38	478-1215-2-ND	4,000	9.00/M	06035C102KAT2A
	X7R	50V	1000pF	±20%	0.90	478-5145-1-ND	1.98	11.70	33.75	478-5145-2-ND	4,000	32.00/M	06035C102MAT2A
	X7R	50V	1200pF	±10%	0.90	478-1216-1-ND	1.10	6.50	18.75	478-1216-2-ND	4,000	18.00/M	06035C122KAT2A
	X7R	50V	1500pF	±10%	0.90	478-1217-1-ND	.61	3.58	10.31	478-1217-2-ND	4,000	10.00/M	06035C152KAT2A
	X7R	50V	1800pF	±10%	0.90	478-1218-1-ND	.77	4.55	13.13	478-1218-2-ND	4,000	13.00/M	06035C182KAT2A
	X7R	50V	2200pF	±10%	0.90	478-1219-1-ND	.55	3.25	9.38	478-1219-2-ND	4,000	9.00/M	06035C222KAT2A
	X7R	50V	2700pF	±10%	0.90	478-1220-1-ND	.94	5.53	15.94	478-1220-2-ND	4,000	15.00/M	06035C272KAT2A
	X7R	50V	3300pF	±10%	0.90	478-1221-1-ND	.66	3.90	11.25	478-1221-2-ND	4,000	11.00/M	06035C332KAT2A
	X7R	50V	3900pF	±10%	0.90	478-1222-1-ND	1.10	6.50	18.75	478-1222-2-ND	4,000	18.00/M	06035C392KAT2A
	X7R	50V	4700pF	±10%	0.90	478-1223-1-ND	.40	2.34	6.75	478-1223-2-ND	4,000	6.00/M	06035C472KAT2A
	X7R	50V	5600pF	±10%	0.90	478-1224-1-ND	.66	3.90	11.25	478-1224-2-ND	4,000	11.00/M	06035C562KAT2A
	X7R	50V	6800pF	±10%	0.90	478-1225-1-ND	1.10	6.50	18.75	478-1225-2-ND	4,000	18.00/M	06035C682KAT2A
	X7R	50V	8200pF	±10%	0.90	478-1226-1-ND	.77	4.55	13.13	478-1226-2-ND	4,000	13.00/M	06035C822KAT2A
	X7R	50V	10000pF	±5%	0.90	478-5007-1-ND	1.21	7.15	20.63	478-5007-2-ND	4,000	20.00/M	06035C103JAT2A
	X7R	50V	10000pF	±10%	0.90	478-1227-1-ND	.33	1.95	5.63	478-1227-2-ND	4,000	5.00/M	06035C103KAT2A
	X7R	50V	10000pF	±20%	0.90	478-5008-1-ND	.61	3.58	10.31	478-5008-2-ND	4,000	10.00/M	06035C103MAT2A
	X7R	50V	12000pF	±10%	0.90	478-1228-1-ND	1.10	6.50	18.75	478-1228-2-ND	4,000	18.00/M	06035C123KAT2A
	X7R	50V	15000pF	±10%	0.90	478-1229-1-ND	1.10	6.50	18.75	478-1229-2-ND	4,000	18.00/M	06035C153KAT2A
	X7R	50V	15000pF	±5%	0.90	478-3721-1-ND	3.85	22.75	65.63	478-3721-2-ND	4,000	57.00/M	06035C153JAT2A
	X7R	50V	18000pF	±10%	0.90	478-1230-1-ND	1.10	6.50	18.75	478-1230-2-ND	4,000	18.00/M	06035C183KAT2A
	X7R	50V	22000pF	±5%	0.90	478-3722-1-ND	3.85	22.75	65.63	478-3722-2-ND	4,000	57.00/M	06035C223JAT2A
	X7R	50V	22000pF	±10%	0.90	478-1231-1-ND	.77	4.55	13.13	478-1231-2-ND	4,000	13.00/M	06035C223KAT2A
	X7R	50V	27000pF	±10%	0.90	478-1232-1-ND	1.10	6.50	18.75	478-1232-2-ND	4,000	18.00/M	06035C273KAT2A
	X7R	50V	33000pF	±5%	0.90	478-3723-1-ND	3.85	22.75	65.63	478-3723-2-ND	4,000	57.00/M	06035C333JAT2A
	X7R	50V	33000pF	±10%	0.90	478-1233-1-ND	.66	3.90	11.25	478-1233-2-ND	4,000	11.00/M	06035C333KAT2A
	X7R	50V	39000pF	±10%	0.90	478-1234-1-ND	1.10	6.50	18.75	478-1234-2-ND	4,000	18.00/M	06035C393KAT2A

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	50V	47000pF	±10%	0.90	478-5146-1-ND	1.98	11.70	33.75	478-5146-2-ND	4,000	32.00/M	06035C473KAT2A
	X7R	50V	.10µF	±5%	0.90	478-5778-1-ND ***NEW!***	9.01	53.24	153.56	478-5778-2-ND ***NEW!***	4,000	147.00/M	06035C104JAT2A
	X7R	50V	.10µF	±10%	0.90	478-5052-1-ND	.83	4.88	14.06	478-5052-2-ND	4,000	14.00/M	06035C104KAT2A
	X7R	25V	22000pF	±10%	0.90	478-5896-1-ND ***NEW!***	.66	3.90	11.25	478-5896-2-ND ***NEW!***	4,000	11.00/M	06033C223KAT2A
	X7R	25V	33000pF	±10%	0.90	478-5903-1-ND ***NEW!***	1.10	6.50	18.75	478-5903-2-ND ***NEW!***	4,000	18.00/M	06033C333KAT2A
	X7R	25V	39000pF	±10%	0.90	478-3715-1-ND	4.29	25.35	73.13	478-3715-2-ND	4,000	63.00/M	06033C393KAT2A
	X7R	25V	47000pF	±5%	0.90	478-3716-1-ND	6.16	36.40	105.00	478-3716-2-ND	4,000	91.00/M	06033C473JAT2A
	X7R	25V	47000pF	±10%	0.90	478-1235-1-ND	.66	3.90	11.25	478-1235-2-ND	4,000	11.00/M	06033C473KAT2A
	X7R	25V	.10µF	±5%	0.90	478-3713-1-ND	4.20	24.83	71.63	478-3713-2-ND	4,000	69.00/M	06033C104JAT2A
	X7R	25V	.10µF	±10%	0.90	478-3714-1-ND	4.95	29.25	84.38	478-3714-2-ND	4,000	73.00/M	06033C104KAT2A
	X7R	25V	.10µF	±20%	0.90	478-5049-1-ND	4.40	26.00	75.00	478-5049-2-ND	4,000	72.00/M	06033C104MAT2A
	X7R	25V	.47µF	±10%	0.94	478-5994-1-ND ***NEW!***	3.30	19.50	56.25	478-5994-2-ND ***NEW!***	4,000	54.00/M	06033C474KAT2A
	X7R	16V	22000pF	±10%	0.90	478-5901-1-ND ***NEW!***	.66	3.90	11.25	478-5901-2-ND ***NEW!***	4,000	11.00/M	0603YC223KAT2A
	X7R	16V	33000pF	±10%	0.90	478-5898-1-ND ***NEW!***	.77	4.55	13.13	478-5898-2-ND ***NEW!***	4,000	13.00/M	0603YC333KAT2A
	X7R	16V	56000pF	±10%	0.90	478-1236-1-ND	1.10	6.50	18.75	478-1236-2-ND	4,000	18.00/M	0603YC563KAT2A
	X7R	16V	68000pF	±10%	0.90	478-1237-1-ND	1.10	6.50	18.75	478-1237-2-ND	4,000	18.00/M	0603YC683KAT2A
	X7R	16V	82000pF	±10%	0.90	478-1238-1-ND	1.10	6.50	18.75	478-1238-2-ND	4,000	18.00/M	0603YC823KAT2A
	X7R	16V	.047µF	±10%	0.90	478-5894-1-ND ***NEW!***	.77	4.55	13.13	478-5894-2-ND ***NEW!***	4,000	13.00/M	0603YC473KAT2A
	X7R	16V	.10µF	±10%	0.90	478-1239-1-ND	.28	1.63	4.69	478-1239-2-ND	4,000	5.00/M	0603YC104KAT2A
	X7R	16V	.10µF	±20%	0.90	478-3727-1-ND	3.85	22.75	65.63	478-3727-2-ND	4,000	31.00/M	0603YC104MAT2A
	X7R	16V	.10µF	±5%	0.90	478-3726-1-ND	4.95	29.25	84.38	478-3726-2-ND	4,000	37.00/M	0603YC104JAT2A
	X7R	16V	1.0µF	±10%	0.94	478-5010-1-ND	3.52	20.80	60.00	478-5010-2-ND	4,000	58.00/M	0603YC105KAT2A
	X7R	10V	.12µF	±10%	0.90	478-1240-1-ND	3.85	22.75	65.63	478-1240-2-ND	4,000	63.00/M	0603ZC124KAT2A
	X7R	10V	.15µF	±10%	0.90	478-1241-1-ND	3.85	22.75	65.63	478-1241-2-ND	4,000	63.00/M	0603ZC154KAT2A
	X7R	10V	.18µF	±10%	0.90	478-1242-1-ND	4.40	26.00	75.00	478-1242-2-ND	4,000	72.00/M	0603ZC184KAT2A
	X7R	10V	.22µF	±5%	0.90	478-6035-1-ND ***NEW!***	9.44	55.77	160.88	478-6035-2-ND ***NEW!***	4,000	154.00/M	0603ZC224JAT2A
	X7R	10V	.22µF	±10%	0.90	478-1243-1-ND	1.10	6.50	18.75	478-1243-2-ND	4,000	18.00/M	0603ZC224KAT2A
	X7R	10V	.22µF	±20%	0.90	478-3729-1-ND	4.40	26.00	75.00	478-3729-2-ND	4,000	65.00/M	0603ZC224MAT2A
	X7R	6.3V	2.2µF	±10%	0.94	478-5316-1-ND	2.09	12.35	35.63	478-5316-2-ND	4,000	34.00/M	06036C225KAT2A
	X5R	25V	47000pF	±10%	0.90	478-5051-1-ND	3.41	20.15	58.13	478-5051-2-ND	4,000	56.00/M	06033D473KAT2A
	X5R	25V	.10µF	±10%	0.90	478-1244-1-ND	3.85	22.75	65.63	478-1244-2-ND	4,000	63.00/M	06033D104KAT2A
	X5R	25V	.22µF	±10%	0.90	478-1245-1-ND	4.95	29.25	84.38	478-1245-2-ND	4,000	81.00/M	06033D224KAT2A
	X5R	25V	.33µF	±10%	0.90	478-6028-1-ND ***NEW!***	7.70	45.50	131.25	478-6028-2-ND ***NEW!***	4,000	126.00/M	06033D334KAT2A
	X5R	25V	1.0µF	±10%	0.94	478-5142-1-ND	8.80	52.00	150.00	478-5142-2-ND	4,000	144.00/M	06033D105KAT2A
	X5R	25V	1.0µF	±20%	0.94	478-4531-1-ND	3.24	27.00	90.00	478-4531-2-ND	4,000	130.00/M	06033D105MAT2A
	X5R	16V	.22µF	±10%	0.90	478-1246-1-ND	4.40	26.00	75.00	478-1246-2-ND	4,000	72.00/M	0603YD224KAT2A
	X5R	16V	.33µF	±10%	0.90	478-1247-1-ND	1.87	11.05	31.88	478-1247-2-ND	4,000	31.00/M	0603YD334KAT2A
	X5R	16V	.47µF	±10%	0.90	478-1248-1-ND	1.87	11.05	31.88	478-1248-2-ND	4,000	31.00/M	0603YD474KAT2A
	X5R	16V	1.0µF	±10%	0.90	478-1249-1-ND	.77	4.55	13.13	478-1249-2-ND	4,000	13.00/M	0603YD105KAT2A
	X5R	16V	1.0µF	±20%	0.90	478-5319-1-ND	1.98	11.70	33.75	478-5319-2-ND	4,000	32.00/M	0603YD105MAT2A
	X5R	16V	2.2µF	±10%	0.94	478-5147-1-ND	13.75	81.25	234.38	478-5147-2-ND	4,000	225.00/M	0603YD225KAT2A
	X5R	16V	2.2µF	±20%	0.94	478-4597-1-ND	5.45	45.38	151.25	478-4597-2-ND	4,000	189.00/M	0603YD225MAT2A
	X5R	10V	.33µF	±10%	0.90	478-5893-1-ND ***NEW!***	4.40	26.00	75.00	478-5893-2-ND ***NEW!***	4,000	72.00/M	0603ZD334KAT2A
	X5R	10V	.68µF	±10%	0.90	478-1250-1-ND	2.20	13.00	37.50	478-1250-2-ND	4,000	36.00/M	0603ZD684KAT2A
	X5R	10V	1.0µF	±10%	0.90	478-1251-1-ND	.61	3.58	10.31	478-1251-2-ND	4,000	10.00/M	0603ZD105KAT2A
	X5R	10V	1.0µF	±20%	0.90	478-5320-1-ND	1.65	9.75	28.13	478-5320-2-ND	4,000	27.00/M	0603ZD105MAT2A
	X5R	6.3V	.22µF	±10%	0.90	478-5050-1-ND	4.95	29.25	84.38	478-5050-2-ND	4,000	81.00/M	06036D224KAT2A
	X5R	6.3V	1.0µF	±10%	0.90	478-2581-1-ND	.88	5.20	15.00	478-2581-2-ND	4,000	14.00/M	06036D105KAT2A
	X5R	6.3V	1.0µF	±20%	0.90	478-5317-1-ND	3.85	22.75	65.63	478-5317-2-ND	4,000	63.00/M	06036D105MAT2A
	X5R	6.3V	2.2µF	±10%	0.90	478-1252-1-ND	3.08	18.20	52.50	478-1252-2-ND	4,000	50.00/M	06036D225KAT2A
	X5R	6.3V	2.2µF	±20%	0.90	478-3725-1-ND	12.10	71.50	206.25	478-3725-2-ND	4,000	178.00/M	06036D225MAT2A
	X5R	6.3V	4.7µF	±10%	0.94	478-5009-1-ND	2.75	16.25	46.88	478-5009-2-ND	4,000	45.00/M	06036D475KAT2A
	X5R	6.3V	4.7µF	±20%	0.90	478-2582-1-ND	6.05	35.75	103.13	478-2582-2-ND	4,000	99.00/M	06036D475MAT2A
	X5R	6.3V	10µF	±20%	0.90	478-5318-1-ND	7.70	45.50	131.25	478-5318-2-ND	3,000	126.00/M	06036D106MAT2A
	X5R	4V	4.7µF	±10%	0.94	478-1253-1-ND	6.60	39.00	112.50	478-1253-2-ND	4,000	108.00/M	06034D475KAT2A
	X5R	4V	10µF	±20%	1.02	478-5718-1-ND ***NEW!***	6.05	35.75	103.13	478-5718-2-ND ***NEW!***	3,000	99.00/M	06034D106MAT2A
	Y5V	50V	10000pF	+80 -20%	0.90	478-1254-1-ND	1.10	6.50	18.75	478-1254-2-ND	4,000	18.00/M	06035G103ZAT2A
	Y5V	50V	22000pF	+80 -20%	0.90	478-1255-1-ND	1.10	6.50	18.75	478-1255-2-ND	4,000	18.00/M	06035G223ZAT2A
	Y5V	50V	47000pF	+80 -20%	0.90	478-1257-1-ND	1.10	6.50	18.75	478-1257-2-ND	4,000	18.00/M	06035G473ZAT2A
	Y5V	50V	68000pF	+80 -20%	0.90	478-1258-1-ND	1.10	6.50	18.75	478-1258-2-ND	4,000	18.00/M	06035G683ZAT2A
	Y5V	50V	.10µF	+80 -20%	0.90	478-3724-1-ND	2.86	16.90	48.75	478-3724-2-ND	4,000	42.00/M	06035G104ZAT2A
	Y5V	25V	.10µF	+80 -20%	0.90	478-1259-1-ND	.44	2.60	7.50	478-1259-2-ND	4,000	7.00/M	06033G104ZAT2A
	Y5V	25V	.15µF	+80 -20%	0.90	478-1260-1-ND	2.20	13.00	37.50	478-1260-2-ND	4,000	36.00/M	06033G154ZAT2A
	Y5V	25V	.22µF	+80 -20%	0.90	478-1261-1-ND	1.10	6.50	18.75	478-1261-2-ND	4,000	18.00/M	06033G224ZAT2A
	Y5V	16V	.10µF	+80 -20%	0.90	478-5892-1-ND ***NEW!***	.50	2.93	8.44	478-5892-2-ND ***NEW!***	4,000	8.00/M	0603YG104ZAT2A
	Y5V	16V	.22µF	+80 -20%	0.90	478-3728-1-ND	.77	4.55	13.13	478-3728-2-ND	4,000	13.00/M	0603YG224ZAT2A
	Y5V	16V	.33µF	+80 -20%	0.90	478-1262-1-ND	2.20	13.00	37.50	478-1262-2-ND	4,000	36.00/M	0603YG334ZAT2A
	Y5V	16V	.47µF	+80 -20%	0.90	478-1263-1-ND	1.10	6.50	18.75	478-1263-2-ND	4,000	18.00/M	0603YG474ZAT2A
	Y5V	16V	1.0µF	+80 -20%	0.90	478-1264-1-ND	.72	4.23	12.19	478-1264-2-ND	4,000	12.00/M	0603YG105ZAT2A
	Y5V	10V	1.0µF	+80 -20%	0.90	478-1265-1-ND	.72	4.23	12.19	478-1265-2-ND	4,000	12.00/M	0603ZG105ZAT2A
0805	C0G (NP0)	1,000V	10pF	±20%	1.30	478-3995-1-ND	49.50	292.50	843.75	478-3995-2-ND	2,000	810.00/M	0805AA100MAT1A
	C0G (NP0)	1,000V	33pF	±10%	1.30	478-3997-1-ND	49.50	292.50	843.75	478-3997-2-ND	2,000	810.00/M	0805AA330KAT1A
	C0G (NP0)	1,000V	100pF	±10%	1.30	478-3996-1-ND	49.50	292.50	843.75	478-3996-2-ND	2,000	810.00/M	0805AA101KAT1A
	C0G (NP0)	630V	100pF	±10%	1.30	478-5540-1-ND	5.58	46.50	155.00	478-5540-2-ND	2,000	186.00/M	0805CA101KAT1A
	C0G (NP0)	200V	10pF	±5%	0.94	478-1266-1-ND	3.71	21.91	63.19	478-1266-2-ND	4,000	61.00/M	08052A100JAT2A
	C0G (NP0)	200V	15pF	±5%	0.94	478-1267-1-ND	2.20	13.00	37.50	478-1267-2-ND	4,000	36.00/M	08052A150JAT2A
	C0G (NP0)	200V	22pF	±5%	0.94	478-1268-1-ND	2.20	13.00	37.50	478-1268-2-ND	4,000	36.00/M	08052A220JAT2A
	C0G (NP0)	200V	33pF	±5%	0.94	478-1269-1-ND	2.20	13.00	37.50	478-1269-2-ND	4,000	36.00/M	08052A330JAT2A
	C0G (NP0)	200V	47pF	±5%	0.94	478-1270-1-ND	2.20	13.00	37.50	478-1270-2-ND	4,000	36.00/M	08052A470JAT2A
	C0G (NP0)	200V	68pF	±5%	0.94	478-1271-1-ND	3.71	21.91	63.19	478-1271-2-ND	4,000	61.00/M	08052A680JAT2A
	C0G (NP0)	200V	100pF	±5%	0.94	478-1272-1-ND	8.25	48.75	140.63	478-1272-2-ND	4,000	135.00/M	08052A101JAT2A
	C0G (NP0)	200V	150pF	±5%	0.94	478-1273-1-ND	3.96	23.40	67.50	478-1273-2-ND	4,000	65.00/M	08052A151JAT2A
	C0G (NP0)	200V	220pF	±5%	0.94	478-1274-1-ND	3.96	23.40	67.50	478-1274-2-ND	4,000	65.00/M	08052A221JAT2A
	C0G (NP0)	200V	330pF	±5%	1.27	478-1275-1-ND	3.96	23.40	67.50	478-1275-2-ND	2,000	65.00/M	08052A331JAT2A
	C0G (NP0)	200V	470pF	±5%	1.27	478-1276-1-ND	3.96	23.40	67.50	478-1276-2-ND	2,000	65.00/M	08052A471JAT2A
	C0G (NP0)	100V	.5pF	±.25pF	0.94	478-5148-1-ND	1.65	9.75	28.13	478-5148-2-ND	4,000	27.00/M	08051A0R5CAT2A
	C0G (NP0)	100V	1.0pF	±.25pF	0.94	478-5015-1-ND	2.42	14.30	41.25	478-5015-2-ND	4,000	40.00/M	08051A1R0CAT2A
	C0G (NP0)	100V	1.2pF	±.25pF	0.94	478-5149-1-ND	1.65	9.75	28.13	478-5149-2-ND	4,000	27.00/M	08051A1R2CAT2A
	C0G (NP0)	100V	1.5pF	±.25pF	0.94	478-5150-1-ND	1.65	9.75	28.13	478-5150-2-ND	4,000	27.00/M	08051A1R5CAT2A

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0805	C0G (NP0)	100V	2.2pF	±.25pF	0.94	478-5018-1-ND	2.42	14.30	41.25	478-5018-2-ND	4,000	40.00/M	08051A2R2CAT2A
	C0G (NP0)	100V	2.7pF	±.25pF	0.94	478-5019-1-ND	2.42	14.30	41.25	478-5019-2-ND	4,000	40.00/M	08051A2R7CAT2A
	C0G (NP0)	100V	3.3pF	±.25pF	0.94	478-5021-1-ND	2.42	14.30	41.25	478-5021-2-ND	4,000	40.00/M	08051A3R3CAT2A
	C0G (NP0)	100V	3.9pF	±.25pF	0.94	478-5022-1-ND	2.42	14.30	41.25	478-5022-2-ND	4,000	40.00/M	08051A3R9CAT2A
	C0G (NP0)	100V	4.7pF	±.25pF	0.94	478-5153-1-ND	1.65	9.75	28.13	478-5153-2-ND	4,000	27.00/M	08051A4R7CAT2A
	C0G (NP0)	100V	5.0pF	±.25pF	0.94	478-6039-1-ND ***NEW!***	2.42	14.30	41.25	478-6039-2-ND ***NEW!***	4,000	40.00/M	08051A5R0CAT2A
	C0G (NP0)	100V	5.6pF	±.25pF	0.94	478-5024-1-ND	2.42	14.30	41.25	478-5024-2-ND	4,000	40.00/M	08051A5R6CAT2A
	C0G (NP0)	100V	6.8pF	±.25pF	0.94	478-5025-1-ND	1.32	7.80	22.50	478-5025-2-ND	4,000	22.00/M	08051A6R8CAT2A
	C0G (NP0)	100V	6.8pF	±.50pF	0.94	478-3742-1-ND	2.20	13.00	37.50	478-3742-2-ND	4,000	32.00/M	08051A6R8DAT2A
	C0G (NP0)	100V	8.2pF	±.25pF	0.94	478-5027-1-ND	2.42	14.30	41.25	478-5027-2-ND	4,000	40.00/M	08051A8R2CAT2A
	C0G (NP0)	100V	10pF	±1%	0.94	478-5779-1-ND ***NEW!***	7.70	45.50	131.25	478-5779-2-ND ***NEW!***	4,000	126.00/M	08051A100FAT2A
	C0G (NP0)	100V	10pF	±5%	0.94	478-1278-1-ND	2.20	13.00	37.50	478-1278-2-ND	4,000	36.00/M	08051A100JAT2A
	C0G (NP0)	100V	10pF	±.25pF	0.94	478-3730-1-ND	3.52	20.80	60.00	478-3730-2-ND	4,000	52.00/M	08051A100CAT2A
	C0G (NP0)	100V	10pF	±10%	0.94	478-3731-1-ND	2.09	12.35	35.63	478-3731-2-ND	4,000	23.00/M	08051A100KAT2A
	C0G (NP0)	100V	12pF	±5%	0.94	478-5011-1-ND	1.54	9.10	26.25	478-5011-2-ND	4,000	25.00/M	08051A120JAT2A
	C0G (NP0)	100V	15pF	±5%	0.94	478-1279-1-ND	2.20	13.00	37.50	478-1279-2-ND	4,000	36.00/M	08051A150JAT2A
	C0G (NP0)	100V	15pF	±10%	0.94	478-6038-1-ND ***NEW!***	2.09	12.35	35.63	478-6038-2-ND ***NEW!***	4,000	34.00/M	08051A150KAT2A
	C0G (NP0)	100V	18pF	±5%	0.94	478-5013-1-ND	1.10	6.50	18.75	478-5013-2-ND	4,000	18.00/M	08051A180JAT2A
	C0G (NP0)	100V	20pF	±5%	0.94	478-3735-1-ND	2.31	13.65	39.38	478-3735-2-ND	4,000	38.00/M	08051A200JAT2A
	C0G (NP0)	100V	22pF	±5%	0.94	478-1280-1-ND	1.10	6.50	18.75	478-1280-2-ND	4,000	18.00/M	08051A220JAT2A
	C0G (NP0)	100V	22pF	±10%	0.94	478-3736-1-ND	2.09	12.35	35.63	478-3736-2-ND	4,000	23.00/M	08051A220KAT2A
	C0G (NP0)	100V	27pF	±5%	0.94	478-5017-1-ND	.88	5.20	15.00	478-5017-2-ND	4,000	14.00/M	08051A270JAT2A
	C0G (NP0)	100V	30pF	±5%	0.94	478-3738-1-ND	2.31	13.65	39.38	478-3738-2-ND	4,000	38.00/M	08051A300JAT2A
	C0G (NP0)	100V	33pF	±5%	0.94	478-1281-1-ND	1.10	6.50	18.75	478-1281-2-ND	4,000	18.00/M	08051A330JAT2A
	C0G (NP0)	100V	33pF	±10%	0.94	478-3739-1-ND	2.09	12.35	35.63	478-3739-2-ND	4,000	23.00/M	08051A330KAT2A
	C0G (NP0)	100V	39pF	±5%	0.94	478-5020-1-ND	1.32	7.80	22.50	478-5020-2-ND	4,000	22.00/M	08051A390JAT2A
	C0G (NP0)	100V	47pF	±5%	0.94	478-1282-1-ND	1.10	6.50	18.75	478-1282-2-ND	4,000	18.00/M	08051A470JAT2A
	C0G (NP0)	100V	47pF	±10%	0.94	478-3740-1-ND	2.09	12.35	35.63	478-3740-2-ND	4,000	23.00/M	08051A470KAT2A
	C0G (NP0)	100V	56pF	±5%	0.94	478-5023-1-ND	1.65	9.75	28.13	478-5023-2-ND	4,000	27.00/M	08051A560JAT2A
	C0G (NP0)	100V	68pF	±5%	0.94	478-1283-1-ND	2.20	13.00	37.50	478-1283-2-ND	4,000	36.00/M	08051A680JAT2A
	C0G (NP0)	100V	75pF	±5%	0.94	478-3743-1-ND	2.31	13.65	39.38	478-3743-2-ND	4,000	38.00/M	08051A750JAT2A
	C0G (NP0)	100V	82pF	±5%	0.94	478-5026-1-ND	1.38	8.13	23.44	478-5026-2-ND	4,000	23.00/M	08051A820JAT2A
	C0G (NP0)	100V	100pF	±5%	0.94	478-1284-1-ND	2.20	13.00	37.50	478-1284-2-ND	4,000	36.00/M	08051A101JAT2A
	C0G (NP0)	100V	100pF	±1%	0.94	478-3732-1-ND	7.70	45.50	131.25	478-3732-2-ND	4,000	113.00/M	08051A101FAT2A
	C0G (NP0)	100V	100pF	±10%	0.94	478-3733-1-ND	2.09	12.35	35.63	478-3733-2-ND	4,000	23.00/M	08051A101KAT2A
	C0G (NP0)	100V	120pF	±5%	0.94	478-5012-1-ND	1.10	6.50	18.75	478-5012-2-ND	4,000	18.00/M	08051A121JAT2A
	C0G (NP0)	100V	120pF	±10%	0.94	478-6037-1-ND ***NEW!***	2.86	16.90	48.75	478-6037-2-ND ***NEW!***	4,000	47.00/M	08051A121KAT2A
	C0G (NP0)	100V	150pF	±5%	0.94	478-1285-1-ND	2.20	13.00	37.50	478-1285-2-ND	4,000	36.00/M	08051A151JAT2A
	C0G (NP0)	100V	150pF	±10%	0.94	478-3734-1-ND	2.86	16.90	48.75	478-3734-2-ND	4,000	23.00/M	08051A151KAT2A
	C0G (NP0)	100V	180pF	±5%	0.94	478-5014-1-ND	1.32	7.80	22.50	478-5014-2-ND	4,000	22.00/M	08051A181JAT2A
	C0G (NP0)	100V	220pF	±1%	0.94	478-5151-1-ND	7.70	45.50	131.25	478-5151-2-ND	4,000	126.00/M	08051A221FAT2A
	C0G (NP0)	100V	220pF	±5%	0.94	478-1286-1-ND	2.97	17.55	50.63	478-1286-2-ND	4,000	49.00/M	08051A221JAT2A
	C0G (NP0)	100V	220pF	±10%	0.94	478-5016-1-ND	1.43	8.45	24.38	478-5016-2-ND	4,000	23.00/M	08051A221KAT2A
	C0G (NP0)	100V	270pF	±5%	0.94	478-3737-1-ND	2.86	16.90	48.75	478-3737-2-ND	4,000	38.00/M	08051A271JAT2A
	C0G (NP0)	100V	330pF	±5%	0.94	478-1287-1-ND	2.20	13.00	37.50	478-1287-2-ND	4,000	36.00/M	08051A331JAT2A
	C0G (NP0)	100V	390pF	±5%	0.94	478-5152-1-ND	2.34	13.85	39.94	478-5152-2-ND	4,000	38.00/M	08051A391JAT2A
	C0G (NP0)	100V	470pF	±5%	0.94	478-1288-1-ND	2.20	13.00	37.50	478-1288-2-ND	4,000	36.00/M	08051A471JAT2A
	C0G (NP0)	100V	470pF	±1%	0.94	478-5272-1-ND	7.70	45.50	131.25	478-5272-2-ND	4,000	126.00/M	08051A471FAT2A
	C0G (NP0)	100V	560pF	±5%	0.94	478-3741-1-ND	3.19	18.85	54.38	478-3741-2-ND	4,000	43.00/M	08051A561JAT2A
	C0G (NP0)	100V	680pF	±5%	0.94	478-1289-1-ND	2.20	13.00	37.50	478-1289-2-ND	4,000	36.00/M	08051A681JAT2A
	C0G (NP0)	100V	820pF	±5%	0.94	478-3744-1-ND	3.19	18.85	54.38	478-3744-2-ND	4,000	43.00/M	08051A821JAT2A
	C0G (NP0)	100V	1000pF	±5%	0.94	478-1290-1-ND	3.30	19.50	56.25	478-1290-2-ND	4,000	54.00/M	08051A102JAT2A
	C0G (NP0)	50V	.5pF	±.25pF	0.94	478-1291-1-ND	2.20	13.00	37.50	478-1291-2-ND	4,000	36.00/M	08055A0R5CAT2A
	C0G (NP0)	50V	1.0pF	±.25pF	0.94	478-1292-1-ND	2.20	13.00	37.50	478-1292-2-ND	4,000	36.00/M	08055A1R0CAT2A
	C0G (NP0)	50V	1.2pF	±.25pF	0.94	478-1293-1-ND	2.31	13.65	39.38	478-1293-2-ND	4,000	38.00/M	08055A1R2CAT2A
	C0G (NP0)	50V	1.5pF	±.25pF	0.94	478-1294-1-ND	2.20	13.00	37.50	478-1294-2-ND	4,000	36.00/M	08055A1R5CAT2A
	C0G (NP0)	50V	1.8pF	±.25pF	0.94	478-1295-1-ND	2.31	13.65	39.38	478-1295-2-ND	4,000	38.00/M	08055A1R8CAT2A
	C0G (NP0)	50V	2.2pF	±.25pF	0.94	478-1296-1-ND	2.31	13.65	39.38	478-1296-2-ND	4,000	38.00/M	08055A2R2CAT2A
	C0G (NP0)	50V	2.7pF	±.25pF	0.94	478-1297-1-ND	2.31	13.65	39.38	478-1297-2-ND	4,000	38.00/M	08055A2R7CAT2A
	C0G (NP0)	50V	3.3pF	±.25pF	0.94	478-1298-1-ND	2.31	13.65	39.38	478-1298-2-ND	4,000	38.00/M	08055A3R3CAT2A
	C0G (NP0)	50V	3.9pF	±.25pF	0.94	478-1299-1-ND	2.31	13.65	39.38	478-1299-2-ND	4,000	38.00/M	08055A3R9CAT2A
	C0G (NP0)	50V	4.7pF	±.25pF	0.94	478-1300-1-ND	2.31	13.65	39.38	478-1300-2-ND	4,000	38.00/M	08055A4R7CAT2A
	C0G (NP0)	50V	5.6pF	±.25pF	0.94	478-1301-1-ND	2.31	13.65	39.38	478-1301-2-ND	4,000	38.00/M	08055A5R6CAT2A
	C0G (NP0)	50V	6.8pF	±.25pF	0.94	478-1302-1-ND	2.31	13.65	39.38	478-1302-2-ND	4,000	38.00/M	08055A6R8CAT2A
	C0G (NP0)	50V	8.2pF	±.25pF	0.94	478-1303-1-ND	2.31	13.65	39.38	478-1303-2-ND	4,000	38.00/M	08055A8R2CAT2A
	C0G (NP0)	50V	10pF	±5%	0.94	478-1304-1-ND	.83	4.88	14.06	478-1304-2-ND	4,000	14.00/M	08055A100JAT2A
	C0G (NP0)	50V	12pF	±5%	0.94	478-1305-1-ND	1.10	6.50	18.75	478-1305-2-ND	4,000	18.00/M	08055A120JAT2A
	C0G (NP0)	50V	15pF	±5%	0.94	478-1306-1-ND	1.10	6.50	18.75	478-1306-2-ND	4,000	18.00/M	08055A150JAT2A
	C0G (NP0)	50V	18pF	±5%	0.94	478-1307-1-ND	1.10	6.50	18.75	478-1307-2-ND	4,000	18.00/M	08055A180JAT2A
	C0G (NP0)	50V	22pF	±5%	0.94	478-1308-1-ND	.83	4.88	14.06	478-1308-2-ND	4,000	14.00/M	08055A220JAT2A
	C0G (NP0)	50V	27pF	±5%	0.94	478-1309-1-ND	1.10	6.50	18.75	478-1309-2-ND	4,000	18.00/M	08055A270JAT2A
	C0G (NP0)	50V	33pF	±5%	0.94	478-1310-1-ND	.88	5.20	15.00	478-1310-2-ND	4,000	14.00/M	08055A330JAT2A
	C0G (NP0)	50V	39pF	±5%	0.94	478-1311-1-ND	1.10	6.50	18.75	478-1311-2-ND	4,000	18.00/M	08055A390JAT2A
	C0G (NP0)	50V	47pF	±5%	0.94	478-1312-1-ND	.88	5.20	15.00	478-1312-2-ND	4,000	14.00/M	08055A470JAT2A
	C0G (NP0)	50V	56pF	±5%	0.94	478-1313-1-ND	1.10	6.50	18.75	478-1313-2-ND	4,000	18.00/M	08055A560JAT2A
	C0G (NP0)	50V	68pF	±5%	0.94	478-1314-1-ND	1.10	6.50	18.75	478-1314-2-ND	4,000	18.00/M	08055A680JAT2A
	C0G (NP0)	50V	82pF	±5%	0.94	478-1315-1-ND	1.10	6.50	18.75	478-1315-2-ND	4,000	18.00/M	08055A820JAT2A
	C0G (NP0)	50V	100pF	±5%	0.94	478-1316-1-ND	.94	5.53	15.94	478-1316-2-ND	4,000	15.00/M	08055A101JAT2A
	C0G (NP0)	50V	120pF	±5%	0.94	478-1317-1-ND	1.10	6.50	18.75	478-1317-2-ND	4,000	18.00/M	08055A121JAT2A
	C0G (NP0)	50V	150pF	±5%	0.94	478-1318-1-ND	.88	5.20	15.00	478-1318-2-ND	4,000	14.00/M	08055A151JAT2A
	C0G (NP0)	50V	180pF	±5%	0.94	478-1319-1-ND	1.65	9.75	28.13	478-1319-2-ND	4,000	27.00/M	08055A181JAT2A
	C0G (NP0)	50V	220pF	±5%	0.94	478-1320-1-ND	.99	5.85	16.88	478-1320-2-ND	4,000	16.00/M	08055A221JAT2A
	C0G (NP0)	50V	270pF	±5%	0.94	478-1321-1-ND	1.10	6.50	18.75	478-1321-2-ND	4,000	18.00/M	08055A271JAT2A
	C0G (NP0)	50V	330pF	±1%	0.94	478-6045-1-ND ***NEW!***	7.70	45.50	131.25	478-6045-2-ND ***NEW!***	4,000	126.00/M	08055A331FAT2A
	C0G (NP0)	50V	330pF	±5%	0.94	478-1322-1-ND	1.10	6.50	18.75	478-1322-2-ND	4,000	18.00/M	08055A331JAT2A
	C0G (NP0)	50V	330pF	±10%	0.94	478-3765-1-ND	2.42	14.30	41.25	478-3765-2-ND	4,000	36.00/M	08055A331KAT2A
	C0G (NP0)	50V	390pF	±5%	0.94	478-1323-1-ND	1.32	7.80	22.50	478-1323-2-ND	4,000	22.00/M	08055A391JAT2A
	C0G (NP0)	50V	470pF	±5%	0.94	478-1324-1-ND	.88	5.20	15.00	478-1324-2-ND	4,000	14.00/M	08055A471JAT2A
	C0G (NP0)	50V	470pF	±1%	0.94	478-3766-1-ND	10.12	59.80	172.50	478-3766-2-ND	4,000	81.00/M	08055A471FAT2A
	C0G (NP0)	50V	470pF	±10%	0.94	478-3767-1-ND	2.42	14.30	41.25	478-3767-2-ND	4,000	36.00/M	08055A471KAT2A
	C0G (NP0)	50V	510pF	±5%	0.94	478-6046-1-ND ***NEW!***	2.86	16.90	48.75	478-6046-2-ND ***NEW!***	4,000	47.00/M	08055A511JAT2A
	C0G (NP0)	50V	560pF	±1%	0.94	478-6047-1-ND ***NEW!***	10.12	59.80	172.50	478-6047-2-ND ***NEW!***	4,000	166.00/M	08055A561FAT2A
	C0G (NP0)	50V	560pF	±5%	0.94	478-1325-1-ND	1.65	9.75	28.13	478-1325-2-ND	4,000	27.00/M	08055A561JAT2A
	C0G (NP0)	50V	680pF	±5%	0.94	478-1326-1-ND	1.43	8.45	24.38	478-1326-2-ND	4,000	23.00/M	08055A681JAT2A
	C0G (NP0)	50V	820pF	±5%	0.94	478-1327-1-ND	1.49	8.78	25.31	478-1327-2-ND	4,000	24.00/M	08055A821JAT2A
	C0G (NP0)	50V	1000pF	±5%	0.94	478-1328-1-ND	1.10	6.50	18.75	478-1328-2-ND	4,000	18.00/M	08055A102JAT2A
	C0G (NP0)	50V	1000pF	±1%	0.94	478-3759-1-ND	10.12	59.80	172.50	478-3759-2-ND	4,000	149.00/M	08055A102FAT2A
	C0G (NP0)	50V	1000pF	±2%	0.94	478-3760-1-ND	7.15	42.25	121.88	478-3760-2-ND	4,000	105.00/M	08055A102GAT2A
	C0G (NP0)	50V	1000pF	±10%	0.94	478-3761-1-ND	3.85	22.75	65.63	478-3761-2-ND	4,000	53.00/M	08055A102KAT2A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	C0G (NP0)	50V	1200pF	±5%	0.94	478-3762-1-ND	4.51	26.65	76.88	478-3762-2-ND	4,000	66.00/M	08055A122JAT2A
	C0G (NP0)	50V	1500pF	±5%	0.94	478-1329-1-ND	2.97	17.55	50.63	478-1329-2-ND	4,000	49.00/M	08055A152JAT2A
	C0G (NP0)	50V	1800pF	±1%	0.94	478-6044-1-ND ***NEW!***	10.12	59.80	172.50	478-6044-2-ND ***NEW!***	4,000	166.00/M	08055A182FAT2A
	C0G (NP0)	50V	1800pF	±5%	0.94	478-3763-1-ND	4.51	26.65	76.88	478-3763-2-ND	4,000	66.00/M	08055A182JAT2A
	C0G (NP0)	50V	2200pF	±5%	1.27	478-1330-1-ND	2.97	17.55	50.63	478-1330-2-ND	3,000	49.00/M	08055A222JAT2A
	C0G (NP0)	50V	2700pF	±5%	1.27	478-3764-1-ND	4.84	28.60	82.50	478-3764-2-ND	3,000	71.00/M	08055A272JAT2A
	C0G (NP0)	25V	2200pF	±5%	0.94	478-3753-1-ND	2.53	14.95	43.13	478-3753-2-ND	4,000	37.00/M	08053A222JAT2A
	C0G (NP0)	25V	2700pF	±5%	0.94	478-3754-1-ND	2.53	14.95	43.13	478-3754-2-ND	4,000	37.00/M	08053A272JAT2A
	C0G (NP0)	25V	3300pF	±5%	0.94	478-5160-1-ND	3.30	19.50	56.25	478-5160-2-ND	2,000	54.00/M	08053A332JAT2A
	C0G (NP0)	25V	4700pF	±5%	0.94	478-1332-1-ND	3.30	19.50	56.25	478-1332-2-ND	2,000	54.00/M	08053A472JAT2A
	X7R	1,000V	1000pF	±10%	1.30	478-3998-1-ND	49.50	292.50	843.75	478-3998-2-ND	2,000	810.00/M	0805AC102KAT1A
	X7R	200V	220pF	±10%	0.71	478-1335-1-ND	8.25	48.75	140.63	478-1335-2-ND	4,000	135.00/M	08052C221KAT2A
	X7R	200V	330pF	±10%	0.94	478-1336-1-ND	3.85	22.75	65.63	478-1336-2-ND	4,000	63.00/M	08052C331KAT2A
	X7R	200V	470pF	±10%	0.94	478-1337-1-ND	3.85	22.75	65.63	478-1337-2-ND	4,000	63.00/M	08052C471KAT2A
	X7R	200V	470pF	±5%	0.94	478-3752-1-ND	4.95	29.25	84.38	478-3752-2-ND	4,000	73.00/M	08052C471JAT2A
	X7R	200V	560pF	±10%	0.94	478-5159-1-ND	3.85	22.75	65.63	478-5159-2-ND	4,000	63.00/M	08052C561KAT2A
	X7R	200V	680pF	±10%	0.94	478-1338-1-ND	3.85	22.75	65.63	478-1338-2-ND	4,000	63.00/M	08052C681KAT2A
	X7R	200V	1000pF	±10%	0.94	478-1339-1-ND	1.32	7.80	22.50	478-1339-2-ND	4,000	22.00/M	08052C102KAT2A
	X7R	200V	1000pF	±5%	0.94	478-3750-1-ND	4.95	29.25	84.38	478-3750-2-ND	4,000	73.00/M	08052C102JAT2A
	X7R	200V	1000pF	±20%	0.94	478-3751-1-ND	3.22	19.05	54.94	478-3751-2-ND	4,000	53.00/M	08052C102MAT2A
	X7R	200V	1500pF	±10%	0.94	478-1340-1-ND	8.80	52.00	150.00	478-1340-2-ND	4,000	144.00/M	08052C152KAT2A
	X7R	200V	2200pF	±10%	0.94	478-1341-1-ND	3.85	22.75	65.63	478-1341-2-ND	4,000	63.00/M	08052C222KAT2A
	X7R	200V	3300pF	±10%	0.94	478-1342-1-ND	3.85	22.75	65.63	478-1342-2-ND	4,000	63.00/M	08052C332KAT2A
	X7R	200V	4700pF	±10%	0.94	478-1343-1-ND	3.85	22.75	65.63	478-1343-2-ND	4,000	63.00/M	08052C472KAT2A
	X7R	200V	10000pF	±10%	0.94	478-1345-1-ND	12.10	71.50	206.25	478-1345-2-ND	4,000	198.00/M	08052C103KAT2A
	X7R	200V	15000pF	±10%	0.94	478-1346-1-ND	14.30	84.50	243.75	478-1346-2-ND	4,000	234.00/M	08052C153KAT2A
	X7R	200V	22000pF	±10%	1.40	478-1347-1-ND	4.68	27.63	79.69	478-1347-2-ND	2,000	77.00/M	08052C223KAT2A
	X7R	100V	220pF	±10%	0.71	478-1348-1-ND	1.10	6.50	18.75	478-1348-2-ND	4,000	18.00/M	08051C221KAT2A
	X7R	100V	330pF	±10%	0.71	478-1349-1-ND	1.10	6.50	18.75	478-1349-2-ND	4,000	18.00/M	08051C331KAT2A
	X7R	100V	470pF	±10%	0.71	478-1350-1-ND	1.10	6.50	18.75	478-1350-2-ND	4,000	18.00/M	08051C471KAT2A
	X7R	100V	680pF	±10%	0.71	478-1351-1-ND	1.10	6.50	18.75	478-1351-2-ND	4,000	18.00/M	08051C681KAT2A
	X7R	100V	1000pF	±10%	0.71	478-1352-1-ND	1.10	6.50	18.75	478-1352-2-ND	4,000	18.00/M	08051C102KAT2A
	X7R	100V	1200pF	±10%	0.94	478-5154-1-ND	1.65	9.75	28.13	478-5154-2-ND	4,000	27.00/M	08051C122KAT2A
	X7R	100V	1500pF	±10%	0.71	478-1353-1-ND	1.10	6.50	18.75	478-1353-2-ND	4,000	18.00/M	08051C152KAT2A
	X7R	100V	1800pF	±10%	0.94	478-5155-1-ND	1.32	7.80	22.50	478-5155-2-ND	4,000	22.00/M	08051C182KAT2A
	X7R	100V	2000pF	±10%	0.94	478-6042-1-ND ***NEW!***	2.31	13.65	39.38	478-6042-2-ND ***NEW!***	4,000	38.00/M	08051C202KAT2A
	X7R	100V	2200pF	±10%	0.71	478-1354-1-ND	1.10	6.50	18.75	478-1354-2-ND	4,000	18.00/M	08051C222KAT2A
	X7R	100V	2200pF	±5%	0.94	478-3746-1-ND	3.19	18.85	54.38	478-3746-2-ND	4,000	24.00/M	08051C222JAT2A
	X7R	100V	2700pF	±5%	0.94	478-3748-1-ND	3.19	18.85	54.38	478-3748-2-ND	4,000	47.00/M	08051C272JAT2A
	X7R	100V	2700pF	±10%	0.94	478-5029-1-ND	1.76	10.40	30.00	478-5029-2-ND	4,000	29.00/M	08051C272KAT2A
	X7R	100V	3300pF	±10%	0.71	478-1355-1-ND	.88	5.20	15.00	478-1355-2-ND	4,000	14.00/M	08051C332KAT2A
	X7R	100V	3300pF	±5%	0.94	478-3749-1-ND	3.19	18.85	54.38	478-3749-2-ND	4,000	47.00/M	08051C332JAT2A
	X7R	100V	3900pF	±10%	0.94	478-5157-1-ND	1.65	9.75	28.13	478-5157-2-ND	4,000	27.00/M	08051C392KAT2A
	X7R	100V	4700pF	±10%	0.94	478-1356-1-ND	1.10	6.50	18.75	478-1356-2-ND	4,000	18.00/M	08051C472KAT2A
	X7R	100V	6800pF	±10%	0.94	478-1357-1-ND	1.10	6.50	18.75	478-1357-2-ND	4,000	18.00/M	08051C682KAT2A
	X7R	100V	8200pF	±10%	0.94	478-5158-1-ND	2.31	13.65	39.38	478-5158-2-ND	4,000	38.00/M	08051C822KAT2A
	X7R	100V	10000pF	±5%	0.94	478-3745-1-ND	3.19	18.85	54.38	478-3745-2-ND	4,000	24.00/M	08051C103JAT2A
	X7R	100V	22000pF	±5%	0.94	478-3747-1-ND	3.63	21.45	61.88	478-3747-2-ND	4,000	53.00/M	08051C223JAT2A
	X7R	100V	10000pF	±10%	0.94	478-1358-1-ND	1.10	6.50	18.75	478-1358-2-ND	4,000	18.00/M	08051C103KAT2A
	X7R	100V	15000pF	±10%	0.94	478-1359-1-ND	2.64	15.60	45.00	478-1359-2-ND	4,000	43.00/M	08051C153KAT2A
	X7R	100V	22000pF	±10%	0.94	478-1360-1-ND	2.64	15.60	45.00	478-1360-2-ND	4,000	43.00/M	08051C223KAT2A
	X7R	100V	27000pF	±10%	0.94	478-5156-1-ND	1.98	11.70	33.75	478-5156-2-ND	4,000	32.00/M	08051C273KAT2A
	X7R	100V	33000pF	±10%	1.40	478-1361-1-ND	3.63	21.45	61.88	478-1361-2-ND	2,000	59.00/M	08051C333KAT2A
	X7R	100V	47000pF	±10%	1.40	478-1362-1-ND	3.63	21.45	61.88	478-1362-2-ND	2,000	59.00/M	08051C473KAT2A
	X7R	100V	.015µF	±5%	0.94	478-6041-1-ND ***NEW!***	1.10	6.50	18.75	478-6041-2-ND ***NEW!***	4,000	18.00/M	08051C153JAT2A
	X7R	100V	.10µF	±5%	1.40	478-5780-1-ND ***NEW!***	3.63	21.45	61.88	478-5780-2-ND ***NEW!***	2,000	59.00/M	08051C104JAT2A
	X7R	100V	.10µF	±10%	1.40	478-5028-1-ND	4.40	26.00	75.00	478-5028-2-ND	2,000	72.00/M	08051C104KAT2A
	X7R	50V	220pF	±10%	0.94	478-1363-1-ND	2.31	13.65	39.38	478-1363-2-ND	4,000	38.00/M	08055C221KAT2A
	X7R	50V	270pF	±10%	0.94	478-1364-1-ND	2.31	13.65	39.38	478-1364-2-ND	4,000	38.00/M	08055C271KAT2A
	X7R	50V	330pF	±10%	0.94	478-1365-1-ND	2.31	13.65	39.38	478-1365-2-ND	4,000	38.00/M	08055C331KAT2A
	X7R	50V	390pF	±10%	0.94	478-1366-1-ND	2.31	13.65	39.38	478-1366-2-ND	4,000	38.00/M	08055C391KAT2A
	X7R	50V	470pF	±10%	0.94	478-1367-1-ND	2.31	13.65	39.38	478-1367-2-ND	4,000	38.00/M	08055C471KAT2A
	X7R	50V	560pF	±10%	0.94	478-1368-1-ND	2.31	13.65	39.38	478-1368-2-ND	4,000	38.00/M	08055C561KAT2A
	X7R	50V	680pF	±10%	0.94	478-1369-1-ND	2.31	13.65	39.38	478-1369-2-ND	4,000	38.00/M	08055C681KAT2A
	X7R	50V	820pF	±10%	0.94	478-1370-1-ND	2.31	13.65	39.38	478-1370-2-ND	4,000	38.00/M	08055C821KAT2A
	X7R	50V	1000pF	±5%	0.94	478-5162-1-ND	1.05	6.18	17.81	478-5162-2-ND	4,000	17.00/M	08055C102JAT2A
	X7R	50V	1000pF	±10%	0.94	478-1371-1-ND	.50	2.93	8.44	478-1371-2-ND	4,000	8.00/M	08055C102KAT2A
	X7R	50V	1000pF	±20%	0.94	478-5163-1-ND	1.32	7.80	22.50	478-5163-2-ND	4,000	22.00/M	08055C102MAT2A
	X7R	50V	1200pF	±10%	0.94	478-1372-1-ND	1.10	6.50	18.75	478-1372-2-ND	4,000	18.00/M	08055C122KAT2A
	X7R	50V	1500pF	±10%	0.94	478-1373-1-ND	.77	4.55	13.13	478-1373-2-ND	4,000	13.00/M	08055C152KAT2A
	X7R	50V	1800pF	±10%	0.94	478-1374-1-ND	1.10	6.50	18.75	478-1374-2-ND	4,000	18.00/M	08055C182KAT2A
	X7R	50V	2200pF	±10%	0.94	478-1375-1-ND	1.10	6.50	18.75	478-1375-2-ND	4,000	18.00/M	08055C222KAT2A
	X7R	50V	2700pF	±10%	0.94	478-1376-1-ND	1.10	6.50	18.75	478-1376-2-ND	4,000	18.00/M	08055C272KAT2A
	X7R	50V	3300pF	±10%	0.94	478-1377-1-ND	1.10	6.50	18.75	478-1377-2-ND	4,000	18.00/M	08055C332KAT2A
	X7R	50V	3900pF	±10%	0.94	478-1378-1-ND	.88	5.20	15.00	478-1378-2-ND	4,000	14.00/M	08055C392KAT2A
	X7R	50V	4700pF	±10%	0.94	478-1379-1-ND	1.10	6.50	18.75	478-1379-2-ND	4,000	18.00/M	08055C472KAT2A
	X7R	50V	4700pF	±5%	0.94	478-3770-1-ND	3.19	18.85	54.38	478-3770-2-ND	4,000	47.00/M	08055C472JAT2A
	X7R	50V	5600pF	±5%	0.94	478-6049-1-ND ***NEW!***	3.19	18.85	54.38	478-6049-2-ND ***NEW!***	4,000	52.00/M	08055C562JAT2A
	X7R	50V	5600pF	±10%	0.94	478-1380-1-ND	2.20	13.00	37.50	478-1380-2-ND	4,000	36.00/M	08055C562KAT2A
	X7R	50V	6800pF	±10%	0.94	478-1381-1-ND	1.10	6.50	18.75	478-1381-2-ND	4,000	18.00/M	08055C682KAT2A
	X7R	50V	6800pF	±5%	0.94	478-3772-1-ND	3.19	18.85	54.38	478-3772-2-ND	4,000	47.00/M	08055C682JAT2A
	X7R	50V	8200pF	±10%	0.94	478-1382-1-ND	1.10	6.50	18.75	478-1382-2-ND	3,000	18.00/M	08055C822KAT2A
	X7R	50V	10000pF	±5%	0.94	478-3768-1-ND	3.19	18.85	54.38	478-3768-2-ND	4,000	24.00/M	08055C103JAT2A
	X7R	50V	10000pF	±10%	0.94	478-1383-1-ND	.44	2.60	7.50	478-1383-2-ND	4,000	7.00/M	08055C103KAT2A
	X7R	50V	10000pF	±20%	0.94	478-5031-1-ND	1.10	6.50	18.75	478-5031-2-ND	4,000	18.00/M	08055C103MAT2A
	X7R	50V	12000pF	±10%	0.94	478-1384-1-ND	1.10	6.50	18.75	478-1384-2-ND	4,000	18.00/M	08055C123KAT2A
	X7R	50V	15000pF	±10%	0.94	478-1385-1-ND	.88	5.20	15.00	478-1385-2-ND	4,000	14.00/M	08055C153KAT2A
	X7R	50V	18000pF	±10%	0.94	478-1386-1-ND	2.20	13.00	37.50	478-1386-2-ND	4,000	36.00/M	08055C183KAT2A
	X7R	50V	22000pF	±10%	0.94	478-1387-1-ND	.77	4.55	13.13	478-1387-2-ND	4,000	13.00/M	08055C223KAT2A
	X7R	50V	27000pF	±10%	0.94	478-1388-1-ND	1.10	6.50	18.75	478-1388-2-ND	4,000	18.00/M	08055C273KAT2A
	X7R	50V	33000pF	±5%	0.94	478-3769-1-ND	3.63	21.45	61.88	478-3769-2-ND	4,000	53.00/M	08055C333JAT2A
	X7R	50V	33000pF	±10%	0.94	478-1389-1-ND	.87	5.14	14.81	478-1389-2-ND	4,000	14.00/M	08055C333KAT2A
	X7R	50V	39000pF	±10%	0.94	478-1390-1-ND	1.10	6.50	18.75	478-1390-2-ND	4,000	18.00/M	08055C393KAT2A
	X7R	50V	47000pF	±10%	0.94	478-1391-1-ND	1.10	6.50	18.75	478-1391-2-ND	4,000	18.00/M	08055C473KAT2A
	X7R	50V	47000pF	±5%	0.94	478-3771-1-ND	3.63	21.45	61.88	478-3771-2-ND	4,000	53.00/M	08055C473JAT2A
	X7R	50V	56000pF	±10%	0.94	478-1392-1-ND	1.10	6.50	18.75	478-1392-2-ND	4,000	18.00/M	08055C563KAT2A
	X7R	50V	68000pF	±10%	0.94	478-1393-1-ND	1.10	6.50	18.75	478-1393-2-ND	4,000	18.00/M	08055C683KAT2A
	X7R	50V	82000pF	±10%	0.94	478-1394-1-ND	1.10	6.50	18.75	478-1394-2-ND	4,000	18.00/M	08055C823KAT2A

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Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	50V	.10µF	±10%	0.94	478-1395-1-ND	.88	5.20	15.00	478-1395-2-ND	4,000	14.00/M	08055C104KAT2A
	X7R	50V	.10µF	±20%	0.94	478-3351-1-ND	.33	2.85	11.25	478-3351-2-ND	4,000	13.00/M	08055C104MAT2A
	X7R	50V	.10µF	±5%	0.94	478-3352-1-ND	.44	3.80	15.00	478-3352-2-ND	4,000	17.00/M	08055C104JAT2A
	X7R	50V	.10µF	±10%	0.94	478-3755-1-ND	.61	3.58	10.31	478-3755-2-ND	4,000	10.00/M	08053C104KAT2A
	X7R	50V	.12µF	±10%	1.27	478-1396-1-ND	2.20	13.00	37.50	478-1396-2-ND	2,000	36.00/M	08055C124KAT2A
	X7R	50V	.15µF	±10%	1.40	478-1397-1-ND	2.20	13.00	37.50	478-1397-2-ND	4,000	36.00/M	08053C154KAT2A
	X7R	50V	.22µF	±10%	1.40	478-5164-1-ND	4.62	27.30	78.75	478-5164-2-ND	2,000	76.00/M	08055C224KAT2A
	X7R	50V	.33µF	±10%	1.40	478-5032-1-ND	8.69	51.35	148.13	478-5032-2-ND	2,000	142.00/M	08055C334KAT2A
	X7R	50V	.47µF	±10%	1.40	478-5033-1-ND	8.69	51.35	148.13	478-5033-2-ND	2,000	142.00/M	08055C474KAT2A
	X7R	25V	.12µF	±10%	0.94	478-5161-1-ND	3.19	18.85	54.38	478-5161-2-ND	4,000	52.00/M	08053C124KAT2A
	X7R	25V	.18µF	±10%	0.94	478-1398-1-ND	2.20	13.00	37.50	478-1398-2-ND	2,000	36.00/M	08053C184KAT2A
	X7R	25V	.22µF	±5%	1.40	478-3756-1-ND	9.24	54.60	157.50	478-3756-2-ND	2,000	136.00/M	08053C224JAT2A
	X7R	25V	.22µF	±10%	1.40	478-1399-1-ND	2.20	13.00	37.50	478-1399-2-ND	2,000	36.00/M	08053C224KAT2A
	X7R	25V	.22µF	±20%	1.40	478-3757-1-ND	2.75	16.25	46.88	478-3757-2-ND	2,000	41.00/M	08053C224MAT2A
	X7R	25V	.33µF	±20%	1.40	478-5720-1-ND ***NEW!***	8.69	51.35	148.13	478-5720-2-ND ***NEW!***	2,000	142.00/M	08053C334MAT2A
	X7R	25V	.47µF	±10%	1.40	478-5781-1-ND ***NEW!***	8.69	51.35	148.13	478-5781-2-ND ***NEW!***	2,000	142.00/M	08053C474KAT2A
	X7R	25V	1.0µF	±10%	1.40	478-5030-1-ND	13.75	81.25	234.38	478-5030-2-ND	3,000	225.00/M	08053C105KAT2A
	X7R	25V	2.2µF	±10%	1.40	478-5719-1-ND ***NEW!***	16.50	97.50	281.25	478-5719-2-ND ***NEW!***	3,000	270.00/M	08053C225KAT2A
	X7R	16V	.22µF	±10%	0.94	478-1400-1-ND	1.65	9.75	28.13	478-1400-2-ND	4,000	27.00/M	0805YC224KAT2A
	X7R	16V	.22µF	±5%	0.94	478-3773-1-ND	8.14	48.10	138.75	478-3773-2-ND	4,000	120.00/M	0805YC224JAT2A
	X7R	16V	.27µF	±10%	1.27	478-1401-1-ND	4.40	26.00	75.00	478-1401-2-ND	2,000	72.00/M	0805YC274KAT2A
	X7R	16V	.33µF	±5%	1.40	478-5273-1-ND	9.24	54.60	157.50	478-5273-2-ND	2,000	151.00/M	0805YC334JAT2A
	X7R	16V	.33µF	±10%	1.40	478-1402-1-ND	2.20	13.00	37.50	478-1402-2-ND	2,000	36.00/M	0805YC334KAT2A
	X7R	16V	.33µF	±20%	1.40	478-5274-1-ND	8.36	49.40	142.50	478-5274-2-ND	2,000	137.00/M	0805YC334MAT2A
	X7R	16V	.47µF	±10%	1.40	478-1403-1-ND	3.30	19.50	56.25	478-1403-2-ND	2,000	54.00/M	0805YC474KAT2A
	X7R	16V	.47µF	±5%	1.40	478-3774-1-ND	9.24	54.60	157.50	478-3774-2-ND	2,000	136.00/M	0805YC474JAT2A
	X7R	16V	1.0µF	±10%	1.40	478-5034-1-ND	1.43	8.45	24.38	478-5034-2-ND	3,000	23.00/M	0805YC105KAT2A
	X7R	16V	4.7µF	±10%	1.52	478-5722-1-ND ***NEW!***	16.50	97.50	281.25	478-5722-2-ND ***NEW!***	3,000	270.00/M	0805YC475KAT2A
	X7R	10V	.68µF	±10%	1.40	478-1404-1-ND	6.60	39.00	112.50	478-1404-2-ND	2,000	108.00/M	0805ZC684KAT2A
	X7R	10V	1.0µF	±10%	1.40	478-1405-1-ND	3.08	18.20	52.50	478-1405-2-ND	3,000	50.00/M	0805ZC105KAT2A
	X7R	10V	1.0µF	±20%	1.40	478-3775-1-ND	13.20	78.00	225.00	478-3775-2-ND	2,000	194.00/M	0805ZC105MAT2A
	X7R	6.3V	10µF	±10%	1.52	478-5322-1-ND	5.50	32.50	93.75	478-5322-2-ND	3,000	90.00/M	08056C106KAT2A
	X5R	50V	1.0µF	±10%	1.52	478-5995-1-ND ***NEW!***	7.70	45.50	131.25	478-5995-2-ND ***NEW!***	3,000	126.00/M	08055D105KAT2A
	X5R	25V	.33µF	±10%	1.40	478-1406-1-ND	8.69	51.35	148.13	478-1406-2-ND	3,000	142.00/M	08053D334KAT2A
	X5R	25V	.47µF	±10%	1.40	478-1407-1-ND	8.69	51.35	148.13	478-1407-2-ND	3,000	142.00/M	08053D474KAT2A
	X5R	25V	.68µF	±10%	1.40	478-1408-1-ND	8.69	51.35	148.13	478-1408-2-ND	3,000	142.00/M	08053D684KAT2A
	X5R	25V	1.0µF	±10%	1.40	478-1409-1-ND	6.60	39.00	112.50	478-1409-2-ND	3,000	108.00/M	08053D105KAT2A
	X5R	25V	4.7µF	±10%	1.40	478-6043-1-ND ***NEW!***	5.50	32.50	93.75	478-6043-2-ND ***NEW!***	3,000	90.00/M	08053D475KAT2A
	X5R	25V	4.7µF	±20%	1.40	478-5321-1-ND	7.70	45.50	131.25	478-5321-2-ND	3,000	126.00/M	08053D475MAT2A
	X5R	16V	.68µF	±10%	1.40	478-1410-1-ND	3.85	22.75	65.63	478-1410-2-ND	3,000	63.00/M	0805YD684KAT2A
	X5R	16V	1.0µF	±10%	1.40	478-1411-1-ND	2.97	17.55	50.63	478-1411-2-ND	2,000	49.00/M	0805YD105KAT2A
	X5R	16V	2.2µF	±10%	1.40	478-2580-1-ND	9.90	58.50	168.75	478-2580-2-ND	3,000	162.00/M	0805YD225KAT2A
	X5R	16V	4.7µF	±10%	1.40	478-5166-1-ND	13.20	78.00	225.00	478-5166-2-ND	3,000	216.00/M	0805YD475KAT2A
	X5R	16V	10µF	±10%	1.40	478-5165-1-ND	6.05	35.75	103.13	478-5165-2-ND	3,000	99.00/M	0805YD106KAT2A
	X5R	16V	10µF	±20%	1.40	478-4598-1-ND	14.40	26.00	75.00	478-4598-2-ND	3,000	504.00/M	0805YD106MAT2A
	X5R	10V	.68µF	±10%	1.40	478-5875-1-ND ***NEW!***	5.50	32.50	93.75	478-5875-2-ND ***NEW!***	3,000	90.00/M	0805ZD684KAT2A
	X5R	10V	1.0µF	±10%	1.40	478-1412-1-ND	4.40	26.00	75.00	478-1412-2-ND	2,000	72.00/M	0805ZD105KAT2A
	X5R	10V	2.2µF	±10%	1.40	478-1413-1-ND	3.03	17.88	51.56	478-1413-2-ND	3,000	50.00/M	0805ZD225KAT2A
	X5R	10V	2.2µF	±20%	1.40	478-5327-1-ND	2.20	13.00	37.50	478-5327-2-ND	3,000	36.00/M	0805ZD225MAT2A
	X5R	10V	3.3µF	±10%	1.40	478-1414-1-ND	5.28	31.20	90.00	478-1414-2-ND	3,000	86.00/M	0805ZD335KAT2A
	X5R	10V	4.7µF	±10%	1.40	478-1415-1-ND	4.40	26.00	75.00	478-1415-2-ND	3,000	72.00/M	0805ZD475KAT2A
	X5R	10V	4.7µF	±20%	1.40	478-5328-1-ND	5.50	32.50	93.75	478-5328-2-ND	3,000	90.00/M	0805ZD475MAT2A
	X5R	10V	10µF	±10%	1.40	478-5167-1-ND	4.07	24.05	69.38	478-5167-2-ND	3,000	67.00/M	0805ZD106KAT2A
	X5R	10V	10µF	±20%	1.40	478-5326-1-ND	4.07	24.05	69.38	478-5326-2-ND	3,000	67.00/M	0805ZD106MAT2A
	X5R	6.3V	2.2µF	±10%	1.40	478-5323-1-ND	6.60	39.00	112.50	478-5323-2-ND	3,000	108.00/M	08056D225KAT2A
	X5R	6.3V	3.3µF	±10%	1.40	478-5324-1-ND	11.00	65.00	187.50	478-5324-2-ND	3,000	180.00/M	08056D335KAT2A
	X5R	6.3V	4.7µF	±20%	1.40	478-5325-1-ND	7.15	42.25	121.88	478-5325-2-ND	3,000	117.00/M	08056D475MAT2A
	X5R	6.3V	4.7µF	±10%	1.40	478-1416-1-ND	3.85	22.75	65.63	478-1416-2-ND	3,000	63.00/M	08056D475KAT2A
	X5R	6.3V	10µF	±20%	1.40	478-3648-1-ND	2.75	16.25	46.88	478-3648-2-ND	3,000	45.00/M	08056D106MAT2A
	X5R	6.3V	10µF	±10%	1.40	478-1417-1-ND	2.75	16.25	46.88	478-1417-2-ND	3,000	45.00/M	08056D106KAT2A
	X5R	6.3V	22µF	±20%	1.40	478-3647-1-ND	6.60	39.00	112.50	478-3647-2-ND	3,000	108.00/M	08056D226MAT2A
	Y5V	50V	10000pF	+80 -20%	0.71	478-1418-1-ND	1.10	6.50	18.75	478-1418-2-ND	4,000	18.00/M	08055G103ZAT2A
	Y5V	50V	.10µF	+80 -20%	0.71	478-1421-1-ND	.88	5.20	15.00	478-1421-2-ND	4,000	14.00/M	08055G104ZAT2A
	Y5V	50V	.22µF	+80 -20%	0.94	478-1422-1-ND	1.65	9.75	28.13	478-1422-2-ND	3,000	27.00/M	08055G224ZAT2A
	Y5V	25V	.10µF	+80 -20%	0.71	478-1423-1-ND	1.10	6.50	18.75	478-1423-2-ND	4,000	18.00/M	08053G104ZAT2A
	Y5V	25V	.22µF	+80 -20%	0.94	478-1424-1-ND	1.65	9.75	28.13	478-1424-2-ND	4,000	27.00/M	08053G224ZAT2A
	Y5V	25V	.33µF	+80 -20%	1.40	478-3758-1-ND	7.04	41.60	120.00	478-3758-2-ND	4,000	61.00/M	08053G334ZAT2A
	Y5V	25V	.47µF	+80 -20%	1.40	478-1425-1-ND	2.20	13.00	37.50	478-1425-2-ND	3,000	36.00/M	08053G474ZAT2A
	Y5V	25V	1.0µF	+80 -20%	1.40	478-1426-1-ND	3.30	19.50	56.25	478-1426-2-ND	3,000	54.00/M	08053G105ZAT2A
	Y5V	16V	.47µF	+80 -20%	0.94	478-5897-1-ND ***NEW!***	4.95	29.25	84.38	478-5897-2-ND ***NEW!***	4,000	81.00/M	0805YG474ZAT2A
	Y5V	16V	1.0µF	+80 -20%	1.40	478-1427-1-ND	5.50	32.50	93.75	478-1427-2-ND	3,000	90.00/M	0805YG105ZAT2A
	Y5V	16V	2.2µF	+80 -20%	1.40	478-1428-1-ND	7.15	42.25	121.88	478-1428-2-ND	3,000	117.00/M	0805YG225ZAT2A
	Y5V	10V	4.7µF	+80 -20%	1.52	478-1429-1-ND	9.35	55.25	159.38	478-1429-2-ND	3,000	153.00/M	0805ZG475ZAT2A
1206	C0G (NP0)	2,000V	47pF	±10%	1.52	478-4720-1-ND	13.20	78.00	225.00	478-4720-2-ND	2,000	216.00/M	1206GA470KAT1A
	C0G (NP0)	1,500V	100pF	±5%	1.52	478-4722-1-ND	17.60	104.00	300.00	478-4722-2-ND	2,000	288.00/M	1206SA101JAT1A
	C0G (NP0)	1,000V	47pF	±10%	1.52	478-2949-1-ND	16.50	97.50	281.25	478-2949-2-ND	2,000	108.00/M	1206AA470KAT1A
	C0G (NP0)	1,000V	220pF	±5%	1.52	478-4719-1-ND	8.80	52.00	150.00	478-4719-2-ND	2,000	144.00/M	1206AA221JAT1A
	C0G (NP0)	1,000V	470pF	±5%	1.52	478-2950-1-ND	19.80	117.00	337.50	478-2950-2-ND	2,000	144.00/M	1206AA471JAT1A
	C0G (NP0)	500V	100pF	±5%	0.94	478-3803-1-ND	13.20	78.00	225.00	478-3803-2-ND	4,000	194.00/M	12067A101JAT2A
	C0G (NP0)	500V	220pF	±5%	1.27	478-5785-1-ND ***NEW!***	5.50	32.50	93.75	478-5785-2-ND ***NEW!***	2,000	90.00/M	12067A221JAT2A
	C0G (NP0)	500V	470pF	±5%	1.27	478-3804-1-ND	16.50	97.50	281.25	478-3804-2-ND	2,000	243.00/M	12067A471JAT2A
	C0G (NP0)	200V	100pF	±5%	0.94	478-1430-1-ND	4.13	24.38	70.31	478-1430-2-ND	4,000	68.00/M	12062A101JAT2A
	C0G (NP0)	200V	150pF	±5%	0.94	478-1431-1-ND	4.51	26.65	76.88	478-1431-2-ND	4,000	74.00/M	12062A151JAT2A
	C0G (NP0)	200V	220pF	±5%	0.94	478-1432-1-ND	4.51	26.65	76.88	478-1432-2-ND	4,000	74.00/M	12062A221JAT2A
	C0G (NP0)	200V	330pF	±5%	0.94	478-1433-1-ND	4.51	26.65	76.88	478-1433-2-ND	4,000	74.00/M	12062A331JAT2A
	C0G (NP0)	200V	470pF	±5%	0.94	478-1434-1-ND	8.25	48.75	140.63	478-1434-2-ND	4,000	135.00/M	12062A471JAT2A
	C0G (NP0)	200V	680pF	±5%	0.94	478-1435-1-ND	4.68	27.63	79.69	478-1435-2-ND	4,000	77.00/M	12062A681JAT2A
	C0G (NP0)	200V	1000pF	±5%	1.78	478-1436-1-ND	8.25	48.75	140.63	478-1436-2-ND	2,000	135.00/M	12062A102JAT2A
	C0G (NP0)	200V	1500pF	±5%	1.78	478-1437-1-ND	5.01	29.58	85.31	478-1437-2-ND	2,000	82.00/M	12062A152JAT2A
	C0G (NP0)	100V	6.8pF	±.25pF	0.94	478-5171-1-ND	4.07	24.05	69.38	478-5171-2-ND	4,000	67.00/M	12061A6R8CAT2A

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	C0G (NP0)	100V	10pF	±5%	0.94	478-1438-1-ND	7.70	45.50	131.25	478-1438-2-ND	4,000	126.00/M	12061A100JAT2A
	C0G (NP0)	100V	10pF	±10%	0.94	478-3776-1-ND	3.52	20.80	60.00	478-3776-2-ND	4,000	55.00/M	12061A100KAT2A
	C0G (NP0)	100V	15pF	±5%	0.94	478-1439-1-ND	7.70	45.50	131.25	478-1439-2-ND	4,000	126.00/M	12061A150JAT2A
	C0G (NP0)	100V	18pF	±5%	0.94	478-5036-1-ND	3.30	19.50	56.25	478-5036-2-ND	4,000	54.00/M	12061A180JAT2A
	C0G (NP0)	100V	22pF	±5%	0.94	478-1440-1-ND	7.70	45.50	131.25	478-1440-2-ND	4,000	126.00/M	12061A220JAT2A
	C0G (NP0)	100V	22pF	±10%	0.94	478-3779-1-ND	3.52	20.80	60.00	478-3779-2-ND	4,000	55.00/M	12061A220KAT2A
	C0G (NP0)	100V	27pF	±5%	0.94	478-5038-1-ND	2.75	16.25	46.88	478-5038-2-ND	4,000	45.00/M	12061A270JAT2A
	C0G (NP0)	100V	33pF	±5%	0.94	478-1441-1-ND	7.70	45.50	131.25	478-1441-2-ND	4,000	126.00/M	12061A330JAT2A
	C0G (NP0)	100V	33pF	±10%	0.94	478-5169-1-ND	3.39	20.02	57.75	478-5169-2-ND	4,000	55.00/M	12061A330KAT2A
	C0G (NP0)	100V	39pF	±5%	0.94	478-5039-1-ND	2.75	16.25	46.88	478-5039-2-ND	4,000	45.00/M	12061A390JAT2A
	C0G (NP0)	100V	47pF	±5%	0.94	478-1442-1-ND	7.70	45.50	131.25	478-1442-2-ND	4,000	126.00/M	12061A470JAT2A
	C0G (NP0)	100V	56pF	±5%	0.94	478-6051-1-ND ***NEW!***	3.39	20.02	57.75	478-6051-2-ND ***NEW!***	4,000	55.00/M	12061A560JAT2A
	C0G (NP0)	100V	68pF	±5%	0.94	478-1443-1-ND	3.52	20.80	60.00	478-1443-2-ND	4,000	58.00/M	12061A680JAT2A
	C0G (NP0)	100V	82pF	±5%	0.94	478-5042-1-ND	3.30	19.50	56.25	478-5042-2-ND	4,000	54.00/M	12061A820JAT2A
	C0G (NP0)	100V	100pF	±5%	0.94	478-1444-1-ND	7.70	45.50	131.25	478-1444-2-ND	4,000	126.00/M	12061A101JAT2A
	C0G (NP0)	100V	100pF	±10%	0.94	478-3777-1-ND	3.52	20.80	60.00	478-3777-2-ND	4,000	55.00/M	12061A101KAT2A
	C0G (NP0)	100V	120pF	±5%	0.94	478-5035-1-ND	3.30	19.50	56.25	478-5035-2-ND	4,000	54.00/M	12061A121JAT2A
	C0G (NP0)	100V	150pF	±5%	0.94	478-1445-1-ND	8.25	48.75	140.63	478-1445-2-ND	4,000	135.00/M	12061A151JAT2A
	C0G (NP0)	100V	180pF	±5%	0.94	478-5037-1-ND	3.30	19.50	56.25	478-5037-2-ND	4,000	54.00/M	12061A181JAT2A
	C0G (NP0)	100V	220pF	±5%	0.94	478-1446-1-ND	8.25	48.75	140.63	478-1446-2-ND	4,000	135.00/M	12061A221JAT2A
	C0G (NP0)	100V	220pF	±10%	0.94	478-3780-1-ND	3.52	20.80	60.00	478-3780-2-ND	4,000	55.00/M	12061A221KAT2A
	C0G (NP0)	100V	270pF	±5%	0.94	478-5782-1-ND ***NEW!***	3.39	20.02	57.75	478-5782-2-ND ***NEW!***	4,000	55.00/M	12061A271JAT2A
	C0G (NP0)	100V	330pF	±5%	0.94	478-1447-1-ND	8.80	52.00	150.00	478-1447-2-ND	4,000	144.00/M	12061A331JAT2A
	C0G (NP0)	100V	330pF	±10%	0.94	478-5170-1-ND	3.39	20.02	57.75	478-5170-2-ND	4,000	55.00/M	12061A331KAT2A
	C0G (NP0)	100V	390pF	±5%	0.94	478-5040-1-ND	3.30	19.50	56.25	478-5040-2-ND	4,000	54.00/M	12061A391JAT2A
	C0G (NP0)	100V	470pF	±5%	0.94	478-1448-1-ND	8.80	52.00	150.00	478-1448-2-ND	4,000	144.00/M	12061A471JAT2A
	C0G (NP0)	100V	470pF	±10%	0.94	478-3781-1-ND	4.07	24.05	69.38	478-3781-2-ND	4,000	60.00/M	12061A471KAT2A
	C0G (NP0)	100V	560pF	±5%	0.94	478-5041-1-ND	4.40	26.00	75.00	478-5041-2-ND	4,000	72.00/M	12061A561JAT2A
	C0G (NP0)	100V	680pF	±5%	0.94	478-1449-1-ND	5.13	30.29	87.38	478-1449-2-ND	4,000	84.00/M	12061A681JAT2A
	C0G (NP0)	100V	680pF	±10%	0.94	478-6052-1-ND ***NEW!***	4.62	27.30	78.75	478-6052-2-ND ***NEW!***	4,000	76.00/M	12061A681KAT2A
	C0G (NP0)	100V	1000pF	±5%	0.94	478-1450-1-ND	8.80	52.00	150.00	478-1450-2-ND	4,000	144.00/M	12061A102JAT2A
	C0G (NP0)	100V	1000pF	±1%	0.94	478-3778-1-ND	11.00	65.00	187.50	478-3778-2-ND	4,000	162.00/M	12061A102FAT2A
	C0G (NP0)	100V	1000pF	±10%	0.94	478-5168-1-ND	4.62	27.30	78.75	478-5168-2-ND	4,000	76.00/M	12061A102KAT2A
	C0G (NP0)	100V	1200pF	±5%	0.94	478-6050-1-ND ***NEW!***	5.79	34.19	98.63	478-6050-2-ND ***NEW!***	4,000	95.00/M	12061A122JAT2A
	C0G (NP0)	100V	1500pF	±5%	1.27	478-1451-1-ND	6.93	40.95	118.13	478-1451-2-ND	2,000	113.00/M	12061A152JAT2A
	C0G (NP0)	100V	2200pF	±5%	1.52	478-1452-1-ND	6.93	40.95	118.13	478-1452-2-ND	4,000	113.00/M	12061A222JAT2A
	C0G (NP0)	100V	3300pF	±5%	1.52	478-1453-1-ND	6.93	40.95	118.13	478-1453-2-ND	2,000	113.00/M	12061A332JAT2A
	C0G (NP0)	100V	4700pF	±5%	1.52	478-1454-1-ND	5.86	34.65	99.94	478-1454-2-ND	2,000	96.00/M	12061A472JAT2A
	C0G (NP0)	50V	.5pF	±.25pF	0.94	478-1455-1-ND	3.52	20.80	60.00	478-1455-2-ND	4,000	58.00/M	12065A0R5CAT2A
	C0G (NP0)	50V	1.0pF	±.25pF	0.94	478-1456-1-ND	3.52	20.80	60.00	478-1456-2-ND	4,000	58.00/M	12065A1R0CAT2A
	C0G (NP0)	50V	1.2pF	±.25pF	0.94	478-1457-1-ND	3.52	20.80	60.00	478-1457-2-ND	4,000	58.00/M	12065A1R2CAT2A
	C0G (NP0)	50V	1.5pF	±.25pF	0.94	478-1458-1-ND	3.52	20.80	60.00	478-1458-2-ND	4,000	58.00/M	12065A1R5CAT2A
	C0G (NP0)	50V	1.8pF	±.25pF	0.94	478-1459-1-ND	3.52	20.80	60.00	478-1459-2-ND	4,000	58.00/M	12065A1R8CAT2A
	C0G (NP0)	50V	2.2pF	±.25pF	0.94	478-1460-1-ND	3.52	20.80	60.00	478-1460-2-ND	4,000	58.00/M	12065A2R2CAT2A
	C0G (NP0)	50V	2.7pF	±.25pF	0.94	478-1461-1-ND	3.52	20.80	60.00	478-1461-2-ND	4,000	58.00/M	12065A2R7CAT2A
	C0G (NP0)	50V	3.3pF	±.25pF	0.94	478-1462-1-ND	3.52	20.80	60.00	478-1462-2-ND	4,000	58.00/M	12065A3R3CAT2A
	C0G (NP0)	50V	3.9pF	±.25pF	0.94	478-1463-1-ND	3.52	20.80	60.00	478-1463-2-ND	4,000	58.00/M	12065A3R9CAT2A
	C0G (NP0)	50V	4.7pF	±.25pF	0.94	478-1464-1-ND	3.52	20.80	60.00	478-1464-2-ND	4,000	58.00/M	12065A4R7CAT2A
	C0G (NP0)	50V	5.6pF	±.25pF	0.94	478-1465-1-ND	3.52	20.80	60.00	478-1465-2-ND	4,000	58.00/M	12065A5R6CAT2A
	C0G (NP0)	50V	6.8pF	±.25pF	0.94	478-1466-1-ND	3.52	20.80	60.00	478-1466-2-ND	4,000	58.00/M	12065A6R8CAT2A
	C0G (NP0)	50V	8.2pF	±.25pF	0.94	478-1467-1-ND	3.52	20.80	60.00	478-1467-2-ND	4,000	58.00/M	12065A8R2CAT2A
	C0G (NP0)	50V	10pF	±.50pF	0.94	478-5053-1-ND	3.52	20.80	60.00	478-5053-2-ND	4,000	58.00/M	12065A100DAT2A
	C0G (NP0)	50V	10pF	±5%	0.94	478-1468-1-ND	4.18	24.70	71.25	478-1468-2-ND	4,000	68.00/M	12065A100JAT2A
	C0G (NP0)	50V	12pF	±5%	0.94	478-1469-1-ND	4.18	24.70	71.25	478-1469-2-ND	4,000	68.00/M	12065A120JAT2A
	C0G (NP0)	50V	15pF	±5%	0.94	478-1470-1-ND	4.18	24.70	71.25	478-1470-2-ND	4,000	68.00/M	12065A150JAT2A
	C0G (NP0)	50V	18pF	±5%	0.94	478-1471-1-ND	4.18	24.70	71.25	478-1471-2-ND	4,000	68.00/M	12065A180JAT2A
	C0G (NP0)	50V	22pF	±5%	0.94	478-1472-1-ND	3.70	21.84	63.00	478-1472-2-ND	4,000	60.00/M	12065A220JAT2A
	C0G (NP0)	50V	27pF	±5%	0.94	478-1473-1-ND	4.18	24.70	71.25	478-1473-2-ND	4,000	68.00/M	12065A270JAT2A
	C0G (NP0)	50V	33pF	±5%	0.94	478-1474-1-ND	4.18	24.70	71.25	478-1474-2-ND	4,000	68.00/M	12065A330JAT2A
	C0G (NP0)	50V	39pF	±5%	0.94	478-1475-1-ND	4.18	24.70	71.25	478-1475-2-ND	4,000	68.00/M	12065A390JAT2A
	C0G (NP0)	50V	47pF	±5%	0.94	478-1476-1-ND	4.18	24.70	71.25	478-1476-2-ND	4,000	68.00/M	12065A470JAT2A
	C0G (NP0)	50V	56pF	±5%	0.94	478-1477-1-ND	4.18	24.70	71.25	478-1477-2-ND	4,000	68.00/M	12065A560JAT2A
	C0G (NP0)	50V	68pF	±5%	0.94	478-1478-1-ND	4.18	24.70	71.25	478-1478-2-ND	4,000	68.00/M	12065A680JAT2A
	C0G (NP0)	50V	82pF	±5%	0.94	478-1479-1-ND	4.18	24.70	71.25	478-1479-2-ND	4,000	68.00/M	12065A820JAT2A
	C0G (NP0)	50V	100pF	±5%	0.94	478-1480-1-ND	4.18	24.70	71.25	478-1480-2-ND	4,000	68.00/M	12065A101JAT2A
	C0G (NP0)	50V	120pF	±5%	0.94	478-1481-1-ND	4.18	24.70	71.25	478-1481-2-ND	4,000	68.00/M	12065A121JAT2A
	C0G (NP0)	50V	150pF	±5%	0.94	478-1482-1-ND	5.17	30.55	88.13	478-1482-2-ND	4,000	85.00/M	12065A151JAT2A
	C0G (NP0)	50V	180pF	±5%	0.94	478-1483-1-ND	5.13	30.29	87.38	478-1483-2-ND	2,500	84.00/M	12065A181JAT2A
	C0G (NP0)	50V	220pF	±5%	0.94	478-1484-1-ND	5.17	30.55	88.13	478-1484-2-ND	4,000	85.00/M	12065A221JAT2A
	C0G (NP0)	50V	270pF	±5%	0.94	478-1485-1-ND	5.13	30.29	87.38	478-1485-2-ND	4,000	84.00/M	12065A271JAT2A
	C0G (NP0)	50V	330pF	±5%	0.94	478-1486-1-ND	5.17	30.55	88.13	478-1486-2-ND	4,000	85.00/M	12065A331JAT2A
	C0G (NP0)	50V	390pF	±5%	0.94	478-1487-1-ND	5.13	30.29	87.38	478-1487-2-ND	4,000	84.00/M	12065A391JAT2A
	C0G (NP0)	50V	470pF	±5%	0.94	478-1488-1-ND	5.13	30.29	87.38	478-1488-2-ND	4,000	84.00/M	12065A471JAT2A
	C0G (NP0)	50V	560pF	±5%	0.94	478-1489-1-ND	5.13	30.29	87.38	478-1489-2-ND	4,000	84.00/M	12065A561JAT2A
	C0G (NP0)	50V	680pF	±5%	0.94	478-1490-1-ND	5.13	30.29	87.38	478-1490-2-ND	4,000	84.00/M	12065A681JAT2A
	C0G (NP0)	50V	820pF	±5%	0.94	478-1491-1-ND	5.13	30.29	87.38	478-1491-2-ND	4,000	84.00/M	12065A821JAT2A
	C0G (NP0)	50V	1000pF	±2%	0.94	478-5176-1-ND	14.30	84.50	243.75	478-5176-2-ND	4,000	234.00/M	12065A102GAT2A
	C0G (NP0)	50V	1000pF	±5%	0.94	478-1492-1-ND	5.13	30.29	87.38	478-1492-2-ND	4,000	84.00/M	12065A102JAT2A
	C0G (NP0)	50V	1000pF	±10%	0.94	478-3795-1-ND	5.13	30.29	87.38	478-3795-2-ND	4,000	77.00/M	12065A102KAT2A
	C0G (NP0)	50V	1200pF	±5%	0.94	478-1493-1-ND	5.49	32.44	93.56	478-1493-2-ND	4,000	90.00/M	12065A122JAT2A
	C0G (NP0)	50V	1500pF	±5%	0.94	478-1494-1-ND	5.49	32.44	93.56	478-1494-2-ND	4,000	90.00/M	12065A152JAT2A
	C0G (NP0)	50V	1800pF	±5%	1.27	478-1495-1-ND	6.60	39.00	112.50	478-1495-2-ND	2,000	108.00/M	12065A182JAT2A
	C0G (NP0)	50V	2000pF	±5%	1.27	478-6053-1-ND ***NEW!***	5.86	34.65	99.94	478-6053-2-ND ***NEW!***	2,000	96.00/M	12065A202JAT2A
	C0G (NP0)	50V	2200pF	±5%	1.27	478-1496-1-ND	5.86	34.65	99.94	478-1496-2-ND	4,000	96.00/M	12065A222JAT2A
	C0G (NP0)	50V	2200pF	±1%	1.27	478-3796-1-ND	19.47	115.05	331.88	478-3796-2-ND	2,000	287.00/M	12065A222FAT2A
	C0G (NP0)	50V	2700pF	±5%	1.27	478-1497-1-ND	5.86	34.65	99.94	478-1497-2-ND	2,000	96.00/M	12065A272JAT2A
	C0G (NP0)	50V	3300pF	±5%	1.27	478-1498-1-ND	5.86	34.65	99.94	478-1498-2-ND	2,000	96.00/M	12065A332JAT2A
	C0G (NP0)	50V	3900pF	±5%	1.27	478-1499-1-ND	5.86	34.65	99.94	478-1499-2-ND	2,000	96.00/M	12065A392JAT2A
	C0G (NP0)	50V	4700pF	±1%	1.27	478-6054-1-ND ***NEW!***	33.00	195.00	562.50	478-6054-2-ND ***NEW!***	2,000	540.00/M	12065A472FAT2A
	C0G (NP0)	50V	4700pF	±5%	1.27	478-1500-1-ND	4.95	29.25	84.38	478-1500-2-ND	4,000	81.00/M	12065A472JAT2A
	C0G (NP0)	50V	5600pF	±5%	1.27	478-1501-1-ND	6.93	40.95	118.13	478-1501-2-ND	2,000	113.00/M	12065A562JAT2A
	C0G (NP0)	25V	6800pF	±5%	1.27	478-1502-1-ND	9.35	55.25	159.38	478-1502-2-ND	2,000	153.00/M	12063A682JAT2A
	C0G (NP0)	25V	8200pF	±5%	1.27	478-1503-1-ND	9.35	55.25	159.38	478-1503-2-ND	2,000	153.00/M	12063A822JAT2A
	C0G (NP0)	25V	10000pF	±2%	1.27	478-5783-1-ND ***NEW!***	24.75	146.25	421.88	478-5783-2-ND ***NEW!***	2,000	405.00/M	12063A103GAT2A
	C0G (NP0)	25V	.01μF	±5%	1.27	478-1504-1-ND	9.35	55.25	159.38	478-1504-2-ND	2,000	153.00/M	12063A103JAT2A
	X7R	2,000V	100pF	±10%	1.50	478-3999-1-ND	15.40	91.00	262.50	478-3999-2-ND	2,000	252.00/M	1206GC101KAT1A
	X7R	2,000V	220pF	±10%	1.52	478-4721-1-ND	13.20	78.00	225.00	478-4721-2-ND	2,000	216.00/M	1206GC221KAT1A
	X7R	2,000V	390pF	±10%	1.50	478-4000-1-ND	15.40	91.00	262.50	478-4000-2-ND	2,000	252.00/M	1206GC391KAT1A
	X7R	2,000V	470pF	±10%	1.52	478-2957-1-ND	6.60	39.00	112.50	478-2957-2-ND	2,000	108.00/M	1206GC471KAT1A

(Continued)

AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	2,000V	1000pF	±10%	1.52	478-2956-1-ND	6.60	39.00	112.50	478-2956-2-ND	2,000	108.00/M	1206GC102KAT1A
	X7R	1,000V	100pF	±10%	1.52	478-2951-1-ND	16.50	97.50	281.25	478-2951-2-ND	2,000	108.00/M	1206AC101KAT1A
	X7R	1,000V	1000pF	±10%	1.52	478-2952-1-ND	6.60	39.00	112.50	478-2952-2-ND	2,000	108.00/M	1206AC102KAT1A
	X7R	1,000V	2200pF	±10%	1.52	478-2953-1-ND	6.60	39.00	112.50	478-2953-2-ND	2,000	108.00/M	1206AC222KAT1A
	X7R	1,000V	4700pF	±10%	1.52	478-2954-1-ND	16.50	97.50	281.25	478-2954-2-ND	2,000	108.00/M	1206AC472KAT1A
	X7R	630V	10000pF	±10%	1.52	478-2955-1-ND	6.60	39.00	112.50	478-2955-2-ND	2,000	108.00/M	1206CC103KAT1A
	X7R	500V	1000pF	±10%	1.02	478-3805-1-ND	14.30	84.50	243.75	478-3805-2-ND	4,000	198.00/M	12067C102KAT2A
	X7R	500V	4700pF	±10%	1.27	478-3807-1-ND	13.86	81.90	236.25	478-3807-2-ND	2,000	227.00/M	12067C472KAT2A
	X7R	500V	10000pF	±10%	1.52	478-3806-1-ND	22.00	130.00	375.00	478-3806-2-ND	2,000	324.00/M	12067C103KAT2A
	X7R	250V	.10µF	±10%	1.52	478-5724-1-ND ***NEW!***	12.21	72.15	208.13	478-5724-2-ND ***NEW!***	2,500	200.00/M	1206VC104KAT2A
	X7R	200V	1000pF	±10%	0.94	478-1505-1-ND	4.40	26.00	75.00	478-1505-2-ND	4,000	72.00/M	12062C102KAT2A
	X7R	200V	1500pF	±10%	0.94	478-1506-1-ND	4.40	26.00	75.00	478-1506-2-ND	4,000	72.00/M	12062C152KAT2A
	X7R	200V	2200pF	±10%	0.94	478-1507-1-ND	4.40	26.00	75.00	478-1507-2-ND	4,000	72.00/M	12062C222KAT2A
	X7R	200V	3300pF	±10%	0.94	478-1508-1-ND	4.40	26.00	75.00	478-1508-2-ND	4,000	72.00/M	12062C332KAT2A
	X7R	200V	4700pF	±10%	0.94	478-1509-1-ND	4.40	26.00	75.00	478-1509-2-ND	4,000	72.00/M	12062C472KAT2A
	X7R	200V	6800pF	±10%	0.94	478-1510-1-ND	4.40	26.00	75.00	478-1510-2-ND	4,000	72.00/M	12062C682KAT2A
	X7R	200V	10000pF	±5%	0.94	478-5173-1-ND	5.06	29.90	86.25	478-5173-2-ND	4,000	83.00/M	12062C103JAT2A
	X7R	200V	10000pF	±10%	0.94	478-1511-1-ND	4.40	26.00	75.00	478-1511-2-ND	4,000	72.00/M	12062C103KAT2A
	X7R	200V	15000pF	±10%	1.27	478-1512-1-ND	8.25	48.75	140.63	478-1512-2-ND	2,000	135.00/M	12062C153KAT2A
	X7R	200V	22000pF	±10%	1.27	478-1513-1-ND	4.62	27.30	78.75	478-1513-2-ND	2,000	76.00/M	12062C223KAT2A
	X7R	200V	33000pF	±10%	1.27	478-1514-1-ND	4.62	27.30	78.75	478-1514-2-ND	2,000	76.00/M	12062C333KAT2A
	X7R	200V	47000pF	±10%	1.27	478-1515-1-ND	4.62	27.30	78.75	478-1515-2-ND	2,000	76.00/M	12062C473KAT2A
	X7R	200V	68000pF	±10%	1.52	478-1516-1-ND	13.20	78.00	225.00	478-1516-2-ND	2,000	216.00/M	12062C683KAT2A
	X7R	100V	1000pF	±10%	0.94	478-1517-1-ND	3.19	18.85	54.38	478-1517-2-ND	4,000	52.00/M	12061C102KAT2A
	X7R	100V	1000pF	±5%	0.94	478-3782-1-ND	3.41	20.15	58.13	478-3782-2-ND	4,000	50.00/M	12061C102JAT2A
	X7R	100V	1500pF	±10%	0.94	478-1518-1-ND	3.19	18.85	54.38	478-1518-2-ND	4,000	52.00/M	12061C152KAT2A
	X7R	100V	2200pF	±10%	0.94	478-1519-1-ND	3.19	18.85	54.38	478-1519-2-ND	4,000	52.00/M	12061C222KAT2A
	X7R	100V	2200pF	±5%	0.94	478-3788-1-ND	3.41	20.15	58.13	478-3788-2-ND	4,000	50.00/M	12061C222JAT2A
	X7R	100V	3300pF	±10%	0.94	478-1520-1-ND	3.19	18.85	54.38	478-1520-2-ND	4,000	52.00/M	12061C332KAT2A
	X7R	100V	4700pF	±10%	0.94	478-1521-1-ND	3.19	18.85	54.38	478-1521-2-ND	4,000	52.00/M	12061C472KAT2A
	X7R	100V	4700pF	±5%	0.94	478-3791-1-ND	3.41	20.15	58.13	478-3791-2-ND	4,000	50.00/M	12061C472JAT2A
	X7R	100V	6800pF	±10%	0.94	478-1522-1-ND	3.19	18.85	54.38	478-1522-2-ND	4,000	52.00/M	12061C682KAT2A
	X7R	100V	6800pF	±5%	0.94	478-3794-1-ND	3.41	20.15	58.13	478-3794-2-ND	4,000	50.00/M	12061C682JAT2A
	X7R	100V	10000pF	±5%	0.94	478-3783-1-ND	3.41	20.15	58.13	478-3783-2-ND	4,000	50.00/M	12061C103JAT2A
	X7R	100V	10000pF	±20%	0.94	478-3784-1-ND	3.19	18.85	54.38	478-3784-2-ND	4,000	47.00/M	12061C103MAT2A
	X7R	100V	10000pF	±10%	0.94	478-1523-1-ND	3.19	18.85	54.38	478-1523-2-ND	4,000	52.00/M	12061C103KAT2A
	X7R	100V	15000pF	±5%	0.94	478-3787-1-ND	3.96	23.40	67.50	478-3787-2-ND	4,000	58.00/M	12061C153JAT2A
	X7R	100V	15000pF	±10%	0.94	478-1524-1-ND	3.30	19.50	56.25	478-1524-2-ND	4,000	54.00/M	12061C153KAT2A
	X7R	100V	22000pF	±5%	0.94	478-3789-1-ND	3.96	23.40	67.50	478-3789-2-ND	4,000	50.00/M	12061C223JAT2A
	X7R	100V	22000pF	±10%	0.94	478-1525-1-ND	3.30	19.50	56.25	478-1525-2-ND	4,000	54.00/M	12061C223KAT2A
	X7R	100V	33000pF	±5%	0.94	478-3790-1-ND	3.96	23.40	67.50	478-3790-2-ND	4,000	50.00/M	12061C333JAT2A
	X7R	100V	33000pF	±10%	0.94	478-1526-1-ND	3.30	19.50	56.25	478-1526-2-ND	4,000	54.00/M	12061C333KAT2A
	X7R	100V	47000pF	±5%	0.94	478-3792-1-ND	3.96	23.40	67.50	478-3792-2-ND	4,000	58.00/M	12061C473JAT2A
	X7R	100V	47000pF	±20%	0.94	478-3793-1-ND	3.30	19.50	56.25	478-3793-2-ND	4,000	49.00/M	12061C473MAT2A
	X7R	100V	47000pF	±10%	0.94	478-1527-1-ND	3.30	19.50	56.25	478-1527-2-ND	4,000	54.00/M	12061C473KAT2A
	X7R	100V	56000pF	±10%	0.94	478-5172-1-ND	3.52	20.80	60.00	478-5172-2-ND	4,000	58.00/M	12061C563KAT2A
	X7R	100V	68000pF	±10%	0.94	478-1528-1-ND	3.52	20.80	60.00	478-1528-2-ND	4,000	58.00/M	12061C683KAT2A
	X7R	100V	.10µF	±10%	1.27	478-1529-1-ND	2.20	13.00	37.50	478-1529-2-ND	2,000	36.00/M	12061C104KAT2A
	X7R	100V	.10µF	±5%	1.27	478-3785-1-ND	4.40	26.00	75.00	478-3785-2-ND	2,000	65.00/M	12061C104JAT2A
	X7R	100V	.10µF	±20%	1.27	478-3786-1-ND	3.85	22.75	65.63	478-3786-2-ND	2,000	57.00/M	12061C104MAT2A
	X7R	50V	1000pF	±10%	0.94	478-1530-1-ND	1.76	10.40	30.00	478-1530-2-ND	4,000	29.00/M	12065C102KAT2A
	X7R	50V	1200pF	±10%	0.94	478-1531-1-ND	3.03	17.88	51.56	478-1531-2-ND	4,000	50.00/M	12065C122KAT2A
	X7R	50V	1500pF	±10%	0.94	478-1532-1-ND	3.03	17.88	51.56	478-1532-2-ND	4,000	50.00/M	12065C152KAT2A
	X7R	50V	1800pF	±10%	0.94	478-1533-1-ND	3.03	17.88	51.56	478-1533-2-ND	4,000	50.00/M	12065C182KAT2A
	X7R	50V	2200pF	±10%	0.94	478-1534-1-ND	3.03	17.88	51.56	478-1534-2-ND	4,000	50.00/M	12065C222KAT2A
	X7R	50V	2700pF	±10%	0.94	478-1535-1-ND	3.03	17.88	51.56	478-1535-2-ND	4,000	50.00/M	12065C272KAT2A
	X7R	50V	3300pF	±10%	0.94	478-1536-1-ND	3.03	17.88	51.56	478-1536-2-ND	4,000	50.00/M	12065C332KAT2A
	X7R	50V	3900pF	±10%	0.94	478-1537-1-ND	3.03	17.88	51.56	478-1537-2-ND	4,000	50.00/M	12065C392KAT2A
	X7R	50V	4700pF	±10%	0.94	478-1538-1-ND	3.74	22.10	63.75	478-1538-2-ND	4,000	61.00/M	12065C472KAT2A
	X7R	50V	5600pF	±10%	0.94	478-1539-1-ND	3.03	17.88	51.56	478-1539-2-ND	4,000	50.00/M	12065C562KAT2A
	X7R	50V	6800pF	±10%	0.94	478-1540-1-ND	3.03	17.88	51.56	478-1540-2-ND	4,000	50.00/M	12065C682KAT2A
	X7R	50V	8200pF	±10%	0.94	478-1541-1-ND	3.03	17.88	51.56	478-1541-2-ND	4,000	50.00/M	12065C822KAT2A
	X7R	50V	10000pF	±10%	0.94	478-1542-1-ND	1.76	10.40	30.00	478-1542-2-ND	4,000	29.00/M	12065C103KAT2A
	X7R	50V	12000pF	±10%	0.94	478-1543-1-ND	3.19	18.85	54.38	478-1543-2-ND	4,000	52.00/M	12065C123KAT2A
	X7R	50V	15000pF	±10%	0.94	478-1544-1-ND	3.19	18.85	54.38	478-1544-2-ND	4,000	52.00/M	12065C153KAT2A
	X7R	50V	18000pF	±10%	0.94	478-1545-1-ND	3.19	18.85	54.38	478-1545-2-ND	4,000	52.00/M	12065C183KAT2A
	X7R	50V	22000pF	±10%	0.94	478-1546-1-ND	3.19	18.85	54.38	478-1546-2-ND	4,000	52.00/M	12065C223KAT2A
	X7R	50V	27000pF	±10%	0.94	478-1547-1-ND	3.19	18.85	54.38	478-1547-2-ND	4,000	52.00/M	12065C273KAT2A
	X7R	50V	33000pF	±10%	0.94	478-1548-1-ND	3.19	18.85	54.38	478-1548-2-ND	4,000	52.00/M	12065C333KAT2A
	X7R	50V	39000pF	±10%	0.94	478-1549-1-ND	3.19	18.85	54.38	478-1549-2-ND	4,000	52.00/M	12065C393KAT2A
	X7R	50V	47000pF	±10%	0.94	478-1550-1-ND	3.19	18.85	54.38	478-1550-2-ND	4,000	52.00/M	12065C473KAT2A
	X7R	50V	56000pF	±10%	0.94	478-1551-1-ND	3.52	20.80	60.00	478-1551-2-ND	4,000	58.00/M	12065C563KAT2A
	X7R	50V	68000pF	±10%	0.94	478-1553-1-ND	3.52	20.80	60.00	478-1553-2-ND	4,000	58.00/M	12065C683KAT2A
	X7R	50V	82000pF	±10%	0.94	478-1555-1-ND	3.52	20.80	60.00	478-1555-2-ND	4,000	58.00/M	12065C823KAT2A
	X7R	50V	.10µF	±10%	0.94	478-1556-1-ND	.94	5.53	15.94	478-1556-2-ND	4,000	15.00/M	12065C104KAT2A
	X7R	50V	.10µF	±20%	0.94	478-3353-1-ND	1.44	12.54	49.50	478-3353-2-ND	4,000	34.00/M	12065C104MAT2A
	X7R	50V	.10µF	±5%	0.94	478-3797-1-ND	3.85	22.75	65.63	478-3797-2-ND	4,000	57.00/M	12065C104JAT2A
	X7R	50V	.12µF	±10%	0.94	478-1557-1-ND	3.30	19.50	56.25	478-1557-2-ND	4,000	54.00/M	12065C124KAT2A
	X7R	50V	.15µF	±10%	0.94	478-1558-1-ND	3.30	19.50	56.25	478-1558-2-ND	4,000	54.00/M	12065C154KAT2A
	X7R	50V	.18µF	±10%	0.94	478-1559-1-ND	3.30	19.50	56.25	478-1559-2-ND	4,000	54.00/M	12065C184KAT2A
	X7R	50V	.22µF	±5%	0.94	478-3798-1-ND	5.39	31.85	91.88	478-3798-2-ND	4,000	79.00/M	12065C224JAT2A
	X7R	50V	.22µF	±10%	0.94	478-1560-1-ND	3.30	19.50	56.25	478-1560-2-ND	4,000	54.00/M	12065C224KAT2A
	X7R	50V	.22µF	±20%	0.94	478-3799-1-ND	4.73	27.95	80.63	478-3799-2-ND	4,000	70.00/M	12065C224MAT2A
	X7R	50V	.27µF	±10%	1.27	478-1561-1-ND	4.40	26.00	75.00	478-1561-2-ND	2,000	72.00/M	12065C274KAT2A
	X7R	50V	.33µF	±5%	1.52	478-6055-1-ND ***NEW!***	8.14	48.10	138.75	478-6055-2-ND ***NEW!***	2,000	133.00/M	12065C334JAT2A
	X7R	50V	.33µF	±10%	1.27	478-1562-1-ND	6.60	39.00	112.50	478-1562-2-ND	2,000	108.00/M	12065C334KAT2A
	X7R	50V	.33µF	±20%	1.52	478-3800-1-ND	6.16	36.40	105.00	478-3800-2-ND	2,000	91.00/M	12065C334MAT2A
	X7R	50V	.47µF	±5%	1.52	478-5784-1-ND ***NEW!***	3.85	22.75	65.63	478-5784-2-ND ***NEW!***	2,000	63.00/M	12065C474JAT2A
	X7R	50V	.47µF	±10%	1.52	478-3801-1-ND	6.49	38.35	110.63	478-3801-2-ND	2,000	96.00/M	12065C474KAT2A
	X7R	50V	.68µF	±10%	1.78	478-5723-1-ND ***NEW!***	15.40	91.00	262.50	478-5723-2-ND ***NEW!***	2,000	252.00/M	12065C684KAT2A
	X7R	50V	1.0µF	±10%	1.78	478-5177-1-ND	16.50	97.50	281.25	478-5177-2-ND	2,000	270.00/M	12065C105KAT2A
	X7R	25V	.22µF	±10%	0.94	478-5899-1-ND ***NEW!***	3.30	19.50	56.25	478-5899-2-ND ***NEW!***	4,000	54.00/M	12063C224KAT2A
	X7R	25V	.33µF	±10%	1.27	478-5902-1-ND ***NEW!***	2.97	17.55	50.63	478-5902-2-ND ***NEW!***	2,000	49.00/M	12063C334KAT2A
	X7R	25V	.47µF	±10%	1.27	478-1563-1-ND	4.40	26.00	75.00	478-1563-2-ND	2,000	72.00/M	12063C474KAT2A
	X7R	25V	.47µF	±20%	1.52	478-5175-1-ND	6.16	36.40	105.00	478-5175-2-ND	2,000	101.00/M	12063C474MAT2A
	X7R	25V	.68µF	±10%	1.78	478-1565-1-ND	6.60	39.00	112.50	478-1565-2-ND	2,500	108.00/M	12063C684KAT2A
	X7R	25V	.82µF	±10%	1.78	478-1566-1-ND	10.89	64.35	185.63	478-1566-2-ND	2,500	178.00/M	12063C824KAT2A
	X7R	25V	1.0µF	±5%	1.78	478-5329-1-ND	14.30	84.50	243.75	478-5329-2-ND	2,500	234.00/M	12063C105JAT2A

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	25V	1.0µF	±10%	1.78	478-1567-1-ND	2.20	13.00	37.50	478-1567-2-ND	2,500	36.00/M	12063C105KAT2A
	X7R	25V	1.0µF	±20%	1.78	478-5330-1-ND	3.85	22.75	65.63	478-5330-2-ND	2,000	63.00/M	12063C105MAT2A
	X7R	25V	2.2µF	±10%	1.78	478-5174-1-ND	7.37	43.55	125.63	478-5174-2-ND	2,000	121.00/M	12063C225KAT2A
	X7R	25V	4.7µF	±10%	1.78	478-5996-1-ND ***NEW!***	6.60	39.00	112.50	478-5996-2-ND ***NEW!***	2,500	108.00/M	12063C475KAT2A
	X7R	16V	.33µF	±10%	0.94	478-3809-1-ND	4.18	24.70	71.25	478-3809-2-ND	4,000	68.00/M	1206YC334KAT2A
	X7R	16V	.68µF	±10%	1.27	478-3810-1-ND	6.60	39.00	112.50	478-3810-2-ND	2,000	108.00/M	1206YC684KAT2A
	X7R	16V	1.0µF	±5%	1.27	478-5178-1-ND	10.89	64.35	185.63	478-5178-2-ND	2,500	178.00/M	1206YC105JAT2A
	X7R	16V	1.0µF	±10%	1.40	478-2576-1-ND	4.18	24.70	71.25	478-2576-2-ND	2,000	68.00/M	1206YC105KAT2A
	X7R	16V	1.0µF	±20%	1.27	478-3808-1-ND	11.88	70.20	202.50	478-3808-2-ND	2,000	146.00/M	1206YC105MAT2A
	X7R	16V	2.2µF	±10%	1.78	478-5900-1-ND ***NEW!***	7.70	45.50	131.25	478-5900-2-ND ***NEW!***	2,000	126.00/M	1206YC225KAT2A
	X7R	16V	10µF	±10%	1.78	478-5725-1-ND ***NEW!***	16.50	97.50	281.25	478-5725-2-ND ***NEW!***	2,500	270.00/M	1206YC106KAT2A
	X7R	16V	10µF	±20%	1.78	478-5726-1-ND ***NEW!***	33.00	195.00	562.50	478-5726-2-ND ***NEW!***	2,500	540.00/M	1206YC106MAT2A
	X7R	10V	2.2µF	±10%	1.78	478-1568-1-ND	13.20	78.00	225.00	478-1568-2-ND	2,000	216.00/M	1206ZC225KAT2A
	X7R	6.3V	22µF	±10%	1.78	478-5997-1-ND ***NEW!***	30.80	182.00	525.00	478-5997-2-ND ***NEW!***	2,500	504.00/M	12066C226KAT2A
	X7R	6.3V	22µF	±20%	1.78	478-4595-1-ND	12.60	105.00	350.00	478-4595-2-ND	2,500	432.00/M	12066C226MAT2A
	X7S	10V	4.7µF	±10%	1.78	478-5180-1-ND	33.00	195.00	562.50	478-5180-2-ND	2,500	540.00/M	1206ZZ475KAT2A
	X5R	25V	2.2µF	±10%	1.78	478-1569-1-ND	8.80	52.00	150.00	478-1569-2-ND	2,500	144.00/M	12063D225KAT2A
	X5R	25V	4.7µF	±10%	1.78	478-1570-1-ND	9.35	55.25	159.38	478-1570-2-ND	2,500	153.00/M	12063D475KAT2A
	X5R	25V	4.7µF	±20%	1.78	478-2577-1-ND	6.60	39.00	112.50	478-2577-2-ND	2,500	108.00/M	12063D475MAT2A
	X5R	25V	10µF	±10%	1.78	478-5331-1-ND	16.50	97.50	281.25	478-5331-2-ND	2,500	270.00/M	12063D106KAT2A
	X5R	16V	2.2µF	±10%	1.78	478-1571-1-ND	10.01	59.15	170.63	478-1571-2-ND	2,500	164.00/M	1206YD225KAT2A
	X5R	16V	4.7µF	±10%	1.78	478-1572-1-ND	20.35	120.25	346.88	478-1572-2-ND	2,500	333.00/M	1206YD475KAT2A
	X5R	16V	4.7µF	±20%	1.78	478-5333-1-ND	11.00	65.00	187.50	478-5333-2-ND	2,500	180.00/M	1206YD475MAT2A
	X5R	16V	10µF	±10%	1.78	478-1573-1-ND	6.60	39.00	112.50	478-1573-2-ND	2,500	108.00/M	1206YD106KAT2A
	X5R	16V	10µF	±20%	1.78	478-3811-1-ND	5.50	32.50	93.75	478-3811-2-ND	2,500	90.00/M	1206YD106MAT2A
	X5R	16V	22µF	±10%	1.78	478-5727-1-ND ***NEW!***	34.10	201.50	581.25	478-5727-2-ND ***NEW!***	2,500	558.00/M	1206YD226KAT2A
	X5R	16V	22µF	±20%	1.78	478-5332-1-ND	19.80	117.00	337.50	478-5332-2-ND	2,500	324.00/M	1206YD226MAT2A
	X5R	10V	4.7µF	±10%	1.78	478-1574-1-ND	4.18	24.70	71.25	478-1574-2-ND	2,000	68.00/M	1206ZD475KAT2A
	X5R	10V	4.7µF	±20%	1.78	478-5334-1-ND	9.35	55.25	159.38	478-5334-2-ND	2,000	153.00/M	1206ZD475MAT2A
	X5R	10V	10µF	±10%	1.78	478-1575-1-ND	12.10	71.50	206.25	478-1575-2-ND	2,500	198.00/M	1206ZD106KAT2A
	X5R	10V	10µF	±20%	1.78	478-5179-1-ND	11.00	65.00	187.50	478-5179-2-ND	2,000	180.00/M	1206ZD106MAT2A
	X5R	6.3V	10µF	±10%	1.78	478-2578-1-ND	3.19	18.85	54.38	478-2578-2-ND	2,500	52.00/M	12066D106KAT2A
	X5R	6.3V	10µF	±20%	1.78	478-2579-1-ND	11.00	65.00	187.50	478-2579-2-ND	2,500	180.00/M	12066D106MAT2A
	X5R	6.3V	22µF	±10%	1.78	478-1576-1-ND	8.25	48.75	140.63	478-1576-2-ND	2,500	135.00/M	12066D226KAT2A
	X5R	6.3V	22µF	±20%	1.78	478-3802-1-ND	16.50	97.50	281.25	478-3802-2-ND	2,500	270.00/M	12066D226MAT2A
	X5R	6.3V	47µF	±20%	1.78	478-4532-1-ND	16.88	140.63	468.75	478-4532-2-ND	2,500	574.00/M	12066D476MAT2A
	Y5V	50V	.10µF	+80 -20%	0.94	478-1577-1-ND	2.34	13.85	39.94	478-1577-2-ND	4,000	38.00/M	12065G104ZAT2A
	Y5V	50V	.22µF	+80 -20%	0.94	478-1578-1-ND	6.05	35.75	103.13	478-1578-2-ND	4,000	99.00/M	12065G224ZAT2A
	Y5V	50V	.47µF	+80 -20%	0.94	478-1579-1-ND	4.95	29.25	84.38	478-1579-2-ND	2,000	81.00/M	12065G474ZAT2A
	Y5V	50V	1.0µF	+80 -20%	0.94	478-1580-1-ND	3.85	22.75	65.63	478-1580-2-ND	2,000	63.00/M	12065G105ZAT2A
	Y5V	25V	1.0µF	+80 -20%	1.27	478-5906-1-ND ***NEW!***	2.75	16.25	46.88	478-5906-2-ND ***NEW!***	2,000	45.00/M	12063G105ZAT2A
	Y5V	25V	2.2µF	+80 -20%	1.27	478-1581-1-ND	5.50	32.50	93.75	478-1581-2-ND	3,000	90.00/M	12063G225ZAT2A
	Y5V	16V	1.0µF	+80 -20%	1.27	478-5905-1-ND ***NEW!***	5.50	32.50	93.75	478-5905-2-ND ***NEW!***	4,000	90.00/M	1206YG105ZAT2A
	Y5V	16V	2.2µF	+80 -20%	1.27	478-3812-1-ND	3.85	22.75	65.63	478-3812-2-ND	3,000	63.00/M	1206YG225ZAT2A
	Y5V	16V	4.7µF	+80 -20%	1.52	478-1582-1-ND	3.85	22.75	65.63	478-1582-2-ND	3,000	63.00/M	1206YG475ZAT2A
	Y5V	10V	10µF	+80 -20%	1.78	478-1583-1-ND	7.70	45.50	131.25	478-1583-2-ND	2,500	126.00/M	1206ZG106ZAT2A
	Y5V	10V	22µF	+80 -20%	1.78	478-5998-1-ND ***NEW!***	9.90	58.50	168.75	478-5998-2-ND ***NEW!***	2,500	162.00/M	1206ZG226ZAT2A
1210	C0G (NP0)	2,000V	100pF	±5%	1.78	478-4002-1-ND	20.90	123.50	356.25	478-4002-2-ND	2,000	342.00/M	1210GA101JAT1A
	C0G (NP0)	200V	680pF	±5%	0.94	478-1584-1-ND	9.35	55.25	159.38	478-1584-2-ND	4,000	153.00/M	12102A681JAT2A
	C0G (NP0)	200V	1000pF	±5%	0.94	478-1585-1-ND	9.35	55.25	159.38	478-1585-2-ND	4,000	153.00/M	12102A102JAT2A
	C0G (NP0)	200V	1500pF	±5%	1.27	478-1586-1-ND	9.90	58.50	168.75	478-1586-2-ND	2,000	162.00/M	12102A152JAT2A
	C0G (NP0)	200V	2200pF	±5%	1.78	478-1587-1-ND	13.75	81.25	234.38	478-1587-2-ND	2,000	225.00/M	12102A222JAT2A
	C0G (NP0)	100V	1000pF	±5%	0.94	478-1589-1-ND	4.95	29.25	84.38	478-1589-2-ND	4,000	81.00/M	12101A102JAT2A
	C0G (NP0)	100V	1500pF	±5%	0.94	478-1590-1-ND	7.15	42.25	121.88	478-1590-2-ND	4,000	117.00/M	12101A152JAT2A
	C0G (NP0)	100V	2200pF	±5%	1.27	478-1591-1-ND	7.15	42.25	121.88	478-1591-2-ND	4,000	117.00/M	12101A222JAT2A
	C0G (NP0)	100V	3300pF	±5%	1.27	478-1592-1-ND	7.15	42.25	121.88	478-1592-2-ND	4,000	117.00/M	12101A332JAT2A
	C0G (NP0)	100V	4700pF	±5%	1.27	478-1593-1-ND	9.35	55.25	159.38	478-1593-2-ND	2,000	153.00/M	12101A472JAT2A
	C0G (NP0)	50V	1000pF	±5%	0.94	478-1595-1-ND	4.95	29.25	84.38	478-1595-2-ND	4,000	81.00/M	12105A102JAT2A
	C0G (NP0)	50V	1500pF	±5%	0.94	478-1596-1-ND	7.15	42.25	121.88	478-1596-2-ND	4,000	117.00/M	12105A152JAT2A
	C0G (NP0)	50V	2200pF	±5%	0.94	478-1597-1-ND	7.15	42.25	121.88	478-1597-2-ND	4,000	117.00/M	12105A222JAT2A
	C0G (NP0)	50V	3300pF	±5%	0.94	478-1598-1-ND	7.15	42.25	121.88	478-1598-2-ND	4,000	117.00/M	12105A332JAT2A
	C0G (NP0)	50V	4700pF	±5%	0.94	478-1599-1-ND	9.35	55.25	159.38	478-1599-2-ND	4,000	153.00/M	12105A472JAT2A
	C0G (NP0)	50V	6800pF	±5%	0.94	478-1600-1-ND	22.00	130.00	375.00	478-1600-2-ND	4,000	360.00/M	12105A682JAT2A
	C0G (NP0)	50V	.01µF	±5%	0.94	478-1601-1-ND	22.00	130.00	375.00	478-1601-2-ND	2,000	360.00/M	12105A103JAT2A
	X7R	2,000V	820pF	±10%	1.70	478-2961-1-ND	22.00	130.00	375.00	478-2961-2-ND	2,000	252.00/M	1210GC821KAT1A
	X7R	2,000V	1000pF	±10%	1.70	478-2960-1-ND	22.00	130.00	375.00	478-2960-2-ND	2,000	252.00/M	1210GC102KAT1A
	X7R	2,000V	1000pF	±20%	1.52	478-5184-1-ND	20.90	123.50	356.25	478-5184-2-ND	2,000	342.00/M	1210GC102MAT1A
	X7R	2,000V	3300pF	±10%	1.70	478-5963-1-ND ***NEW!***	4.78	39.83	132.75	478-5963-2-ND ***NEW!***	2,000	191.00/M	1210GC332KAT1A
	X7R	1,500V	2700pF	±20%	1.70	478-2962-1-ND	20.90	123.50	356.25	478-2962-2-ND	2,000	234.00/M	1210SC272MAT1A
	X7R	1,500V	5600pF	±10%	1.70	478-5962-1-ND ***NEW!***	4.32	36.00	120.00	478-5962-2-ND ***NEW!***	2,000	173.00/M	1210SC562KAT1A
	X7R	1,000V	4700pF	±10%	1.78	478-4001-1-ND	20.90	123.50	356.25	478-4001-2-ND	2,000	342.00/M	1210AC472KAT1A
	X7R	1,000V	10000pF	±10%	1.70	478-2958-1-ND	22.00	130.00	375.00	478-2958-2-ND	2,000	252.00/M	1210AC103KAT1A
	X7R	630V	22000pF	±10%	1.70	478-2959-1-ND	22.00	130.00	375.00	478-2959-2-ND	2,000	252.00/M	1210CC223KAT1A
	X7R	500V	10000pF	±10%	1.27	478-3822-1-ND	17.60	104.00	300.00	478-3822-2-ND	2,000	259.00/M	12107C103KAT2A
	X7R	500V	22000pF	±10%	1.78	478-5276-1-ND	15.40	91.00	262.50	478-5276-2-ND	2,000	252.00/M	12107C223KAT2A
	X7R	200V	10000pF	±10%	0.94	478-5043-1-ND	9.35	55.25	159.38	478-5043-2-ND	4,000	153.00/M	12102C103KAT2A
	X7R	200V	22000pF	±10%	0.94	478-5181-1-ND	9.35	55.25	159.38	478-5181-2-ND	4,000	153.00/M	12102C223KAT2A
	X7R	200V	.047µF	±10%	0.94	478-5044-1-ND	11.00	65.00	187.50	478-5044-2-ND	4,000	180.00/M	12102C473KAT2A
	X7R	200V	.10µF	±10%	0.94	478-3815-1-ND	11.00	65.00	187.50	478-3815-2-ND	2,000	162.00/M	12102C104KAT2A
	X7R	100V	1000pF	±10%	0.94	478-1602-1-ND	5.50	32.50	93.75	478-1602-2-ND	4,000	90.00/M	12101C102KAT2A
	X7R	100V	1500pF	±10%	0.94	478-1603-1-ND	4.95	29.25	84.38	478-1603-2-ND	4,000	81.00/M	12101C152KAT2A
	X7R	100V	2200pF	±10%	0.94	478-1604-1-ND	5.50	32.50	93.75	478-1604-2-ND	4,000	90.00/M	12101C222KAT2A
	X7R	100V	3300pF	±10%	0.94	478-1605-1-ND	5.50	32.50	93.75	478-1605-2-ND	4,000	90.00/M	12101C332KAT2A
	X7R	100V	6800pF	±10%	0.94	478-1607-1-ND	5.50	32.50	93.75	478-1607-2-ND	4,000	90.00/M	12101C682KAT2A
	X7R	100V	10000pF	±10%	0.94	478-1608-1-ND	5.50	32.50	93.75	478-1608-2-ND	4,000	90.00/M	12101C103KAT2A
	X7R	100V	15000pF	±10%	0.94	478-1609-1-ND	5.50	32.50	93.75	478-1609-2-ND	4,000	90.00/M	12101C153KAT2A
	X7R	100V	22000pF	±10%	0.94	478-1610-1-ND	5.50	32.50	93.75	478-1610-2-ND	4,000	90.00/M	12101C223KAT2A
	X7R	100V	33000pF	±10%	0.94	478-1611-1-ND	5.50	32.50	93.75	478-1611-2-ND	4,000	90.00/M	12101C333KAT2A
	X7R	100V	47000pF	±10%	0.94	478-1612-1-ND	5.50	32.50	93.75	478-1612-2-ND	4,000	90.00/M	12101C473KAT2A
	X7R	100V	68000pF	±10%	0.94	478-1613-1-ND	5.50	32.50	93.75	478-1613-2-ND	4,000	90.00/M	12101C683KAT2A
	X7R	100V	.10µF	±10%	0.94	478-1614-1-ND	5.50	32.50	93.75	478-1614-2-ND	4,000	90.00/M	12101C104KAT2A
	X7R	100V	.10µF	±5%	0.94	478-3813-1-ND	5.72	33.80	97.50	478-3813-2-ND	4,000	84.00/M	12101C104JAT2A
	X7R	100V	.10µF	±20%	0.94	478-3814-1-ND	4.95	29.25	84.38	478-3814-2-ND	4,000	73.00/M	12101C104MAT2A

(Continued)

Size Code	Type	WV DC	Capaci-tance	Toler-ance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1210	X7R	100V	.15µF	±10%	1.27	478-1615-1-ND	6.82	40.30	116.25	478-1615-2-ND	2,000	112.00/M	12101C154KAT2A
	X7R	100V	.22µF	±10%	1.52	478-1616-1-ND	7.70	45.50	131.25	478-1616-2-ND	2,000	126.00/M	12101C224KAT2A
	X7R	100V	.33µF	±10%	2.79	478-5275-1-ND	10.12	59.80	172.50	478-5275-2-ND	2,000	166.00/M	12101C334KAT2A
	X7R	100V	.47µF	±10%	2.79	478-2568-1-ND	9.35	55.25	159.38	478-2568-2-ND	2,000	153.00/M	12101C474KAT2A
	X7R	100V	.68µF	±10%	2.79	478-2569-1-ND	44.00	260.00	750.00	478-2569-2-ND	2,000	720.00/M	12101C684KAT2A
	X7R	100V	1.0µF	±10%	2.79	478-2570-1-ND	10.45	61.75	178.13	478-2570-2-ND	1,000	171.00	12101C105KAT2A
	X7R	100V	1.0µF	±20%	2.79	478-2571-1-ND	14.30	84.50	243.75	478-2571-2-ND	1,000	234.00	12101C105MAT2A
	X7R	100V	1.5µF	±10%	2.79	478-6119-1-ND ***NEW!***	38.72	228.80	660.00	478-6119-2-ND ***NEW!***	1,000	634.00	12101C155KAT2A
	X7R	50V	.10µF	±10%	0.94	478-1617-1-ND	8.80	52.00	150.00	478-1617-2-ND	4,000	144.00/M	12105C104KAT2A
	X7R	50V	.15µF	±10%	0.94	478-1618-1-ND	6.82	40.30	116.25	478-1618-2-ND	4,000	112.00/M	12105C154KAT2A
	X7R	50V	.22µF	±5%	0.94	478-6056-1-ND ***NEW!***	6.93	40.95	118.13	478-6056-2-ND ***NEW!***	4,000	113.00/M	12105C224JAT2A
	X7R	50V	.22µF	±10%	0.94	478-1619-1-ND	6.82	40.30	116.25	478-1619-2-ND	4,000	112.00/M	12105C224KAT2A
	X7R	50V	.22µF	±20%	0.94	478-3819-1-ND	6.60	39.00	112.50	478-3819-2-ND	4,000	98.00/M	12105C224MAT2A
	X7R	50V	.33µF	±10%	0.94	478-1620-1-ND	12.10	71.50	206.25	478-1620-2-ND	4,000	198.00/M	12105C334KAT2A
	X7R	50V	.47µF	±5%	1.27	478-5183-1-ND	10.12	59.80	172.50	478-5183-2-ND	2,000	166.00/M	12105C474JAT2A
	X7R	50V	.47µF	±10%	1.27	478-1621-1-ND	12.10	71.50	206.25	478-1621-2-ND	2,000	198.00/M	12105C474KAT2A
	X7R	50V	.47µF	±20%	1.27	478-3821-1-ND	9.24	54.60	157.50	478-3821-2-ND	2,000	136.00/M	12105C474MAT2A
	X7R	50V	1.0µF	±10%	2.29	478-1622-1-ND	11.00	65.00	187.50	478-1622-2-ND	2,000	180.00/M	12105C105KAT2A
	X7R	50V	2.2µF	±10%	2.79	478-5182-1-ND	35.20	208.00	600.00	478-5182-2-ND	1,000	576.00	12105C225KAT2A
	X7R	50V	4.7µF	±10%	2.79	478-5046-1-ND	42.90	253.50	731.25	478-5046-2-ND	1,000	702.00	12105C475KAT2A
	X7R	25V	2.2µF	±10%	2.10	478-1623-1-ND	16.50	97.50	281.25	478-1623-2-ND	2,000	270.00/M	12103C225KAT2A
	X7R	25V	1.0µF	±10%	1.52	478-3816-1-ND	19.80	117.00	337.50	478-3816-2-ND	3,000	292.00/M	12103C105KAT2A
	X7R	25V	1.0µF	±20%	1.52	478-3817-1-ND	12.87	76.05	219.38	478-3817-2-ND	3,000	190.00/M	12103C105MAT2A
	X7R	25V	10µF	±10%	2.79	478-5728-1-ND ***NEW!***	12.10	71.50	206.25	478-5728-2-ND ***NEW!***	1,000	198.00	12103C106KAT2A
	X7R	25V	10µF	±10%	2.79	478-6128-1-ND ***NEW!***	79.20	468.00	1350.00	478-6128-2-ND ***NEW!***	1,000	1296.00	12103C106K4T2A
	X7R	25V	10µF	±10%	2.79	478-6129-1-ND ***NEW!***	110.00	650.00	1875.00	478-6129-2-ND ***NEW!***	1,000	1800.00	12103C106K4Z2A
	X7R	16V	4.7µF	±10%	2.79	478-1624-1-ND	17.60	104.00	300.00	478-1624-2-ND	1,000	288.00	1210YC475KAT2A
	X7R	16V	22µF	±10%	2.79	478-5729-1-ND ***NEW!***	27.50	162.50	468.75	478-5729-2-ND ***NEW!***	1,000	450.00	1210YC226KAT2A
	X7R	16V	22µF	±20%	2.79	478-4594-1-ND	22.50	187.50	625.00	478-4594-2-ND	1,000	756.00	1210YC226MAT2A
	X7R	10V	10µF	±10%	2.79	478-1625-1-ND	29.15	172.25	496.88	478-1625-2-ND	1,000	477.00	1210ZC106KAT2A
	X5R	25V	4.7µF	±20%	2.79	478-5335-1-ND	14.85	87.75	253.13	478-5335-2-ND	1,000	243.00	12103D475MAT2A
	X5R	25V	4.7µF	±10%	2.79	478-1626-1-ND	12.65	74.75	215.63	478-1626-2-ND	1,000	207.00	12103D475KAT2A
	X5R	25V	10µF	±10%	2.29	478-1627-1-ND	12.10	71.50	206.25	478-1627-2-ND	2,000	198.00/M	12103D106KAT2A
	X5R	25V	22µF	±10%	2.79	478-5999-1-ND ***NEW!***	27.50	162.50	468.75	478-5999-2-ND ***NEW!***	1,000	450.00	12103D226KAT2A
	X5R	25V	22µF	±20%	2.79	478-5045-1-ND	42.90	253.50	731.25	478-5045-2-ND	1,000	702.00	12103D226MAT2A
	X5R	16V	4.7µF	±10%	1.78	478-1628-1-ND	17.60	104.00	300.00	478-1628-2-ND	2,500	288.00/M	1210YD475KAT2A
	X5R	16V	10µF	±10%	2.29	478-1629-1-ND	16.50	97.50	281.25	478-1629-2-ND	1,000	270.00	1210YD106KAT2A
	X5R	16V	10µF	±20%	2.79	478-2572-1-ND	29.70	175.50	506.25	478-2572-2-ND	2,000	486.00/M	1210YD106MAT2A
	X5R	16V	22µF	±10%	2.79	478-1630-1-ND	24.20	143.00	412.50	478-1630-2-ND	1,000	396.00	1210YD226KAT2A
	X5R	16V	22µF	±20%	2.79	478-5336-1-ND	25.30	149.50	431.25	478-5336-2-ND	1,000	414.00	1210YD226MAT2A
	X5R	10V	10µF	±10%	2.29	478-1631-1-ND	22.55	133.25	384.38	478-1631-2-ND	2,000	369.00/M	1210ZD106KAT2A
	X5R	10V	22µF	±20%	2.79	478-3650-1-ND	35.20	208.00	600.00	478-3650-2-ND	1,000	576.00	1210ZD226MAT2A
	X5R	10V	22µF	±10%	2.79	478-1632-1-ND	22.00	130.00	375.00	478-1632-2-ND	1,000	360.00	1210ZD226KAT2A
	X5R	6.3V	22µF	±20%	2.79	478-2573-1-ND	22.00	130.00	375.00	478-2573-2-ND	1,000	360.00	12106D226MAT2A
	X5R	6.3V	47µF	±20%	2.79	478-2574-1-ND	38.50	227.50	656.25	478-2574-2-ND	1,000	630.00	12106D476MAT2A
	X5R	6.3V	47µF	±10%	2.79	478-1633-1-ND	27.50	162.50	468.75	478-1633-2-ND	1,000	450.00	12106D476KAT2A
	X5R	6.3V	22µF	±10%	2.79	478-3649-1-ND	47.30	279.50	806.25	478-3649-2-ND	1,000	774.00	12106D226KAT2A
	X5R	6.3V	100µF	±10%	2.79	478-5047-1-ND	105.60	624.00	1800.00	478-5047-2-ND	1,000	1728.00	12106D107KAT2A
	X5R	6.3V	100µF	±20%	2.79	478-2575-1-ND	49.50	292.50	843.75	478-2575-2-ND	1,000	810.00	12106D107MAT2A
	Y5V	25V	4.7µF	+80 -20%	1.40	478-3818-1-ND	38.50	227.50	656.25	478-3818-2-ND	3,000	567.00/M	12103G475ZAT2A
	Y5V	25V	10µF	+80 -20%	1.78	478-3651-1-ND	16.50	97.50	281.25	478-3651-2-ND	2,500	270.00/M	12103G106ZAT2A
	Y5V	16V	10µF	+80 -20%	1.78	478-1634-1-ND	29.70	175.50	506.25	478-1634-2-ND	2,500	486.00/M	1210YG106ZAT2A
	Y5V	10V	22µF	+80 -20%	2.29	478-1635-1-ND	43.45	256.75	740.63	478-1635-2-ND	2,000	711.00/M	1210ZG226ZAT2A
1808	C0G (NP0)	4,000V	33pF	±10%	2.03	478-4726-1-ND	24.20	143.00	412.50	478-4726-2-ND	2,000	396.00/M	1808JA330KAT1A
	C0G (NP0)	3,000V	27pF	±10%	2.03	478-2978-1-ND	33.00	195.00	562.50	478-2978-2-ND	2,000	360.00/M	1808HA270KAT1A
	C0G (NP0)	3,000V	33pF	±10%	2.03	478-2979-1-ND	33.00	195.00	562.50	478-2979-2-ND	2,000	360.00/M	1808HA330KAT1A
	C0G (NP0)	3,000V	47pF	±10%	2.03	478-4723-1-ND	22.00	130.00	375.00	478-4723-2-ND	2,000	360.00/M	1808HA470KAT1A
	C0G (NP0)	3,000V	82pF	±10%	2.03	478-2980-1-ND	33.00	195.00	562.50	478-2980-2-ND	2,000	360.00/M	1808HA820KAT1A
	C0G (NP0)	2,000V	220pF	±5%	2.03	478-2973-1-ND	39.60	234.00	675.00	478-2973-2-ND	2,000	450.00/M	1808GA221JAT1A
	C0G (NP0)	1,000V	47pF	±10%	2.03	478-2963-1-ND	33.00	195.00	562.50	478-2963-2-ND	2,000	360.00/M	1808AA470KAT1A
	C0G (NP0)	1,000V	68pF	±10%	2.03	478-2965-1-ND	33.00	195.00	562.50	478-2965-2-ND	2,000	360.00/M	1808AA680KAT1A
	C0G (NP0)	1,000V	560pF	±5%	2.03	478-2964-1-ND	39.60	234.00	675.00	478-2964-2-ND	2,000	396.00/M	1808AA561JAT1A
	X7R	3,000V	1000pF	±20%	2.03	478-4724-1-ND	16.50	97.50	281.25	478-4724-2-ND	2,000	270.00/M	1808HC102MAT1A
	X7R	3,000V	1000pF	±10%	2.03	478-2981-1-ND	33.00	195.00	562.50	478-2981-2-ND	2,000	360.00/M	1808HC102KAT1A
	X7R	3,000V	1500pF	±10%	2.03	478-4725-1-ND	22.00	130.00	375.00	478-4725-2-ND	2,000	360.00/M	1808HC152KAT1A
	X7R	3,000V	1800pF	±10%	2.03	478-5956-1-ND ***NEW!***	6.48	54.00	180.00	478-5956-2-ND ***NEW!***	2,000	259.00/M	1808HC182KAT1A
	X7R	2,500V	1000pF	±10%	2.03	478-2983-1-ND	33.00	195.00	562.50	478-2983-2-ND	2,000	360.00/M	1808WC102KAT1A
	X7R	2,500V	1200pF	±10%	2.03	478-2984-1-ND	33.00	195.00	562.50	478-2984-2-ND	2,000	360.00/M	1808WC122KAT1A
	X7R	2,000V	100pF	±10%	2.03	478-4004-1-ND	30.80	182.00	525.00	478-4004-2-ND	2,000	504.00/M	1808GC101KAT1A
	X7R	2,000V	330pF	±20%	2.03	478-2977-1-ND	31.35	185.25	534.38	478-2977-2-ND	2,000	324.00/M	1808GC331MAT1A
	X7R	2,000V	470pF	±10%	2.03	478-4005-1-ND	30.80	182.00	525.00	478-4005-2-ND	2,000	504.00/M	1808GC471KAT1A
	X7R	2,000V	1000pF	±10%	2.03	478-2974-1-ND	33.00	195.00	562.50	478-2974-2-ND	2,000	360.00/M	1808GC102KAT1A
	X7R	2,000V	1000pF	±20%	2.03	478-2975-1-ND	31.08	183.63	529.69	478-2975-2-ND	2,000	324.00/M	1808GC102MAT1A
	X7R	2,000V	1500pF	±10%	2.03	478-2976-1-ND	33.00	195.00	562.50	478-2976-2-ND	2,000	360.00/M	1808GC152KAT1A
	X7R	2,000V	3300pF	±10%	2.03	478-5958-1-ND ***NEW!***	6.48	54.00	180.00	478-5958-2-ND ***NEW!***	2,000	259.00/M	1808GC332KAT1A
	X7R	1,500V	1000pF	±10	2.03	478-2982-1-ND	33.00	195.00	562.50	478-2982-2-ND	2,000	360.00/M	1808SC102KAT1A
	X7R	1,000V	1000pF	±10%	2.03	478-2966-1-ND	33.00	195.00	562.50	478-2966-2-ND	2,000	360.00/M	1808AC102KAT1A
	X7R	1,000V	3300pF	±10%	2.03	478-2969-1-ND	33.00	195.00	562.50	478-2969-2-ND	2,000	360.00/M	1808AC332KAT1A
	X7R	1,000V	6800pF	±10%	2.03	478-2970-1-ND	33.00	195.00	562.50	478-2970-2-ND	2,000	360.00/M	1808AC682KAT1A
	X7R	1,000V	10000pF	±10%	2.03	478-2967-1-ND	33.00	195.00	562.50	478-2967-2-ND	2,000	360.00/M	1808AC103KAT1A
	X7R	1,000V	10000pF	±20%	2.03	478-4003-1-ND	30.80	182.00	525.00	478-4003-2-ND	2,000	504.00/M	1808AC103MAT1A
	X7R	1,000V	15000pF	±10%	2.03	478-2968-1-ND	33.00	195.00	562.50	478-2968-2-ND	2,000	360.00/M	1808AC153KAT1A
	X7R	630V	39000pF	±10%	2.03	478-2972-1-ND	33.00	195.00	562.50	478-2972-2-ND	2,000	360.00/M	1808CC393KAT1A
	X7R	630V	.068µF	±10%	2.03	478-5960-1-ND ***NEW!***	5.76	48.00	160.00	478-5960-2-ND ***NEW!***	2,000	230.00/M	1808CC683KAT1A
1812	C0G (NP0)	4,000V	27pF	±10%	2.54	478-4716-1-ND	24.20	143.00	412.50	478-4716-2-ND	1,000	396.00	1812JA270KAT1A
	C0G (NP0)	4,000V	47pF	±5%	2.54	478-4734-1-ND	30.80	182.00	525.00	478-4734-2-ND	1,000	504.00	1812JA470JAT1A
	C0G (NP0)	3,000V	47pF	±5%	2.54	478-3005-1-ND	42.24	249.60	720.00	478-3005-2-ND	1,000	360.00	1812HA470JAT1A
	C0G (NP0)	3,000V	100pF	±10%	2.54	478-4729-1-ND	25.30	149.50	431.25	478-4729-2-ND	1,000	414.00	1812HA101KAT1A
	C0G (NP0)	3,000V	220pF	±5%	2.54	478-4730-1-ND	30.80	182.00	525.00	478-4730-2-ND	1,000	504.00	1812HA221JAT1A
	C0G (NP0)	3,000V	220pF	±10%	2.54	478-4731-1-ND	28.60	169.00	487.50	478-4731-2-ND	1,000	468.00	1812HA221KAT1A
	C0G (NP0)	3,000V	330pF	±10%	2.54	478-3004-1-ND	35.20	208.00	600.00	478-3004-2-ND	1,000	360.00	1812HA331KAT1A
	C0G (NP0)	2,500V	100pF	±10%	2.54	478-3011-1-ND	35.20	208.00	600.00	478-3011-2-ND	1,000	360.00	1812WA101KAT1A
	C0G (NP0)	2,000V	150pF	±5%	2.54	478-4728-1-ND	29.70	175.50	506.25	478-4728-2-ND	1,000	486.00	1812GA151JAT1A
	C0G (NP0)	2,000V	470pF	±5%	2.54	478-2999-1-ND	42.24	249.60	720.00	478-2999-2-ND	1,000	360.00	1812GA471JAT1A
	C0G (NP0)	1,500V	560pF	±10%	2.54	478-3008-1-ND	35.20	208.00	600.00	478-3008-2-ND	1,000	360.00	1812SA561KAT1A
	C0G (NP0)	1,000V	100pF	±5%	2.54	478-4727-1-ND	28.60	169.00	487.50	478-4727-2-ND	1,000	468.00	1812AA101JAT1A
	C0G (NP0)	1,000V	100pF	±10%	2.54	478-2985-1-ND	35.20	208.00	600.00	478-2985-2-ND	1,000	378.00	1812AA101KAT1A
	C0G (NP0)	1,000V	220pF	±10%	2.54	478-2987-1-ND	35.20	208.00	600.00	478-2987-2-ND	1,000	378.00	1812AA221KAT1A
	C0G (NP0)	1,000V	470pF	±5%	2.54	478-2988-1-ND	42.24	249.60	720.00	478-2988-2-ND	1,000	414.00	1812AA471JAT1A
	C0G (NP0)	1,000V	1000pF	±5%	2.54	478-5054-1-ND	42.24	249.60	720.00	478-5054-2-ND	1,000	691.00	1812AA102JAT1A
	C0G (NP0)	1,000V	1000pF	±10%	2.54	478-5187-1-ND	35.20	208.00	600.00	478-5187-2-ND	1,000	576.00	1812AA102KAT1A
	C0G (NP0)	1,000V	1000pF	±20%	2.54	478-2986-1-ND	33.44	197.60	570.00	478-2986-2-ND	1,000	360.00	1812AA102MAT1A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1812	C0G (NP0)	50V	10000pF	±1%	1.27	478-5786-1-ND ***NEW!***	45.10	266.50	768.75	478-5786-2-ND ***NEW!***	1,000	738.00	18125A103FAT2A
	C0G (NP0)	50V	.01µF	±5%	1.52	478-1636-1-ND	24.20	143.00	412.50	478-1636-2-ND	1,000	396.00	18125A103JAT2A
	C0G (NP0)	50V	.015µF	±5%	1.52	478-1637-1-ND	41.25	243.75	703.13	478-1637-2-ND	1,000	675.00	18125A153JAT2A
	C0G (NP0)	25V	.022µF	±5%	1.27	478-1638-1-ND	46.75	276.25	796.88	478-1638-2-ND	1,000	765.00	18123A223JAT2A
	X7R	3,000V	470pF	±10%	2.54	478-3007-1-ND	35.20	208.00	600.00	478-3007-2-ND	1,000	360.00	1812HC471KAT1A
	X7R	3,000V	1000pF	±10%	2.54	478-3006-1-ND	35.20	208.00	600.00	478-3006-2-ND	1,000	360.00	1812HC102KAT1A
	X7R	3,000V	1000pF	±20%	2.54	478-4732-1-ND	20.90	123.50	356.25	478-4732-2-ND	1,000	342.00	1812HC102MAT1A
	X7R	3,000V	2200pF	±10%	2.54	478-4733-1-ND	27.50	162.50	468.75	478-4733-2-ND	1,000	450.00	1812HC222KAT1A
	X7R	3,000V	3300pF	±10%	2.54	478-5948-1-ND ***NEW!***	7.92	66.00	220.00	478-5948-2-ND ***NEW!***	1,000	317.00	1812HC332KAT1A
	X7R	3,000V	3900pF	±10%	2.54	478-5946-1-ND ***NEW!***	11.52	96.00	320.00	478-5946-2-ND ***NEW!***	1,000	461.00	1812HC392KAT1A
	X7R	2,500V	2700pF	±10%	2.54	478-5730-1-ND ***NEW!***	35.20	208.00	600.00	478-5730-2-ND ***NEW!***	1,000	576.00	1812WC272KAT1A
	X7R	2,500V	3300pF	±10%	2.54	478-4736-1-ND	24.20	143.00	412.50	478-4736-2-ND	1,000	396.00	1812WC332KAT1A
	X7R	2,000V	1000pF	±10%	2.54	478-3000-1-ND	35.20	208.00	600.00	478-3000-2-ND	1,000	360.00	1812GC102KAT1A
	X7R	2,000V	1000pF	±20%	2.54	478-3001-1-ND	33.44	197.60	570.00	478-3001-2-ND	1,000	360.00	1812GC102MAT1A
	X7R	2,000V	2700pF	±10%	2.54	478-3002-1-ND	35.20	208.00	—	478-3002-2-ND	500	180.00	1812GC272KAT1A
	X7R	2,000V	4700pF	±10%	2.54	478-3003-1-ND	35.20	208.00	600.00	478-3003-2-ND	1,000	360.00	1812GC472KAT1A
	X7R	2,000V	6800pF	±10%	2.54	478-5952-1-ND ***NEW!***	10.35	86.28	287.60	478-5952-2-ND ***NEW!***	1,000	414.00	1812GC682KAT1A
	X7R	2,000V	8200pF	±10%	2.54	478-5951-1-ND ***NEW!***	10.59	88.26	294.20	478-5951-2-ND ***NEW!***	1,000	424.00	1812GC822KAT1A
	X7R	1,500V	4700pF	±10%	2.54	478-3009-1-ND	35.20	208.00	600.00	478-3009-2-ND	1,000	360.00	1812SC472KAT1A
	X7R	1,500V	5600pF	±10%	2.54	478-3010-1-ND	35.20	208.00	600.00	478-3010-2-ND	1,000	360.00	1812SC562KAT1A
	X7R	1,500V	10000pF	±10%	2.54	478-4735-1-ND	26.40	156.00	450.00	478-4735-2-ND	1,000	432.00	1812SC103KAT1A
	X7R	1,000V	1000pF	±10%	2.54	478-2989-1-ND	35.20	208.00	600.00	478-2989-2-ND	1,000	306.00	1812AC102KAT1A
	X7R	1,000V	4700pF	±10%	2.54	478-2993-1-ND	35.20	208.00	600.00	478-2993-2-ND	1,000	324.00	1812AC472KAT1A
	X7R	1,000V	5000pF	±10%	2.54	478-2994-1-ND	35.20	208.00	600.00	478-2994-2-ND	1,000	324.00	1812AC502KAT1A
	X7R	1,000V	10000pF	±10%	2.54	478-2990-1-ND	35.20	208.00	600.00	478-2990-2-ND	1,000	306.00	1812AC103KAT1A
	X7R	1,000V	22000pF	±10%	2.54	478-2991-1-ND	24.20	143.00	412.50	478-2991-2-ND	1,000	396.00	1812AC223KAT1A
	X7R	1,000V	27000pF	±10%	2.54	478-2992-1-ND	35.20	208.00	600.00	478-2992-2-ND	1,000	324.00	1812AC273KAT1A
	X7R	630V	22000pF	±10%	2.54	478-2995-1-ND	35.20	208.00	600.00	478-2995-2-ND	1,000	324.00	1812CC223KAT1A
	X7R	630V	33000pF	±10%	2.54	478-2996-1-ND	35.20	208.00	600.00	478-2996-2-ND	1,000	324.00	1812CC333KAT1A
	X7R	630V	47000pF	±10%	2.54	478-2997-1-ND	26.40	156.00	450.00	478-2997-2-ND	1,000	432.00	1812CC473KAT1A
	X7R	630V	68000pF	±10%	2.54	478-2998-1-ND	35.20	208.00	600.00	478-2998-2-ND	1,000	324.00	1812CC683KAT1A
	X7R	630V	.012µF	±10%	2.54	478-5954-1-ND ***NEW!***	6.48	54.00	180.00	478-5954-2-ND ***NEW!***	1,000	259.00	1812CC123KAT1A
	X7R	630V	.10µF	±10%	2.00	478-4009-1-ND	33.00	195.00	562.50	478-4009-2-ND	1,000	540.00	1812CC104KAT1A
	X7R	500V	47000pF	±10%	2.79	478-5186-1-ND	27.50	162.50	468.75	478-5186-2-ND	1,000	450.00	18127C473KAT2A
	X7R	200V	.10µF	10%	1.02	478-3823-1-ND	27.50	162.50	468.75	478-3823-2-ND	1,000	405.00	18122C104KAT2A
	X7R	100V	.22µF	±10%	1.02	478-1640-1-ND	18.70	110.50	318.75	478-1640-2-ND	1,000	306.00	18121C224KAT2A
	X7R	100V	.33µF	±10%	1.27	478-6000-1-ND ***NEW!***	16.50	97.50	281.25	478-6000-2-ND ***NEW!***	1,000	270.00	18121C334KAT2A
	X7R	100V	.47µF	±10%	1.52	478-1641-1-ND	26.95	159.25	459.38	478-1641-2-ND	1,000	441.00	18121C474KAT2A
	X7R	100V	1.0µF	±10%	2.29	478-1642-1-ND	33.55	198.25	—	478-1642-2-ND	1,000	549.00	18121C105KAT2A
	X7R	100V	2.2µF	±10%	2.79	478-5185-1-ND	55.00	325.00	—	478-5185-2-ND	500	450.00	18121C225KAT2A
	X7R	50V	.33µF	10%	1.02	478-3825-1-ND	24.75	146.25	421.88	478-3825-2-ND	1,000	311.00	18125C334KAT2A
	X7R	50V	.47µF	±10%	1.02	478-3826-1-ND	41.80	247.00	712.50	478-3826-2-ND	1,000	323.00	18125C474KAT2A
	X7R	50V	.47µF	20%	1.02	478-3827-1-ND	38.50	227.50	656.25	478-3827-2-ND	1,000	567.00	18125C474MAT2A
	X7R	50V	.68µF	10%	1.27	478-3828-1-ND	41.80	247.00	712.50	478-3828-2-ND	1,000	395.00	18125C684KAT2A
	X7R	50V	1.0µF	±10%	1.27	478-1643-1-ND	28.05	165.75	478.13	478-1643-2-ND	1,000	459.00	18125C105KAT2A
	X7R	50V	1.0µF	±20%	1.27	478-3824-1-ND	31.90	188.50	543.75	478-3824-2-ND	1,000	419.00	18125C105MAT2A
	X7R	50V	2.2µF	±10%	2.79	478-2567-1-ND	29.70	175.50	—	478-2567-2-ND	500	243.00	18125C225KAT2A
	X7R	50V	4.7µF	±10%	2.79	478-5787-1-ND ***NEW!***	38.50	227.50	—	478-5787-2-ND ***NEW!***	500	315.00	18125C475KAT2A
	X7R	16V	10µF	±10%	2.54	478-5337-1-ND	59.95	354.25	—	478-5337-2-ND	500	490.50	1812YC106KAT2A
	X5R	25V	10µF	±10%	2.79	478-1644-1-ND	45.65	269.75	—	478-1644-2-ND	500	373.50	18123D106KAT2A
	X5R	10V	22µF	±10%	2.79	478-1645-1-ND	45.65	269.75	—	478-1645-2-ND	500	373.50	1812ZD226KAT2A
	X5R	6.3V	47µF	±10%	2.79	478-1646-1-ND	82.50	487.50	—	478-1646-2-ND	500	675.00	18126D476KAT2A
1825	C0G (NP0)	3,000V	220pF	±10%	2.54	478-3017-1-ND	46.20	273.00	787.50	478-3017-2-ND	1,000	540.00	1825HA221KAT1A
	C0G (NP0)	2,500V	1000pF	±10%	2.54	478-4738-1-ND	38.50	227.50	656.25	478-4738-2-ND	1,000	630.00	1825WA102KAT1A
	C0G (NP0)	1,000V	3300pF	±5%	2.54	478-3013-1-ND	55.44	327.60	—	478-3013-2-ND	500	306.00	1825AA332JAT1A
	X7R	4,000V	1000pF	±10%	2.54	478-4737-1-ND	38.50	227.50	656.25	478-4737-2-ND	1,000	630.00	1825JC102KAT1A
	X7R	3,000V	10000pF	±10%	2.54	478-5939-1-ND ***NEW!***	14.69	122.40	408.00	478-5939-2-ND ***NEW!***	1,000	588.00	1825HC103KAT1A
	X7R	2,500V	5600pF	±10%	2.54	478-3018-1-ND	46.20	273.00	787.50	478-3018-2-ND	1,000	540.00	1825WC562KAT1A
	X7R	2,500V	.015µF	±10%	2.54	478-5937-1-ND ***NEW!***	14.26	118.80	396.00	478-5937-2-ND ***NEW!***	1,000	570.00	1825WC153KAT1A
	X7R	2,000V	1000pF	±10%	2.00	478-4007-1-ND	42.90	253.50	731.25	478-4007-2-ND	1,000	702.00	1825GC102KAT1A
	X7R	2,000V	10000pF	±10%	2.00	478-4008-1-ND	42.90	253.50	731.25	478-4008-2-ND	1,000	702.00	1825GC103KAT1A
	X7R	2,000V	.015µF	±10%	2.54	478-5942-1-ND ***NEW!***	13.68	114.00	380.00	478-5942-2-ND ***NEW!***	1,000	547.00	1825GC153KAT1A
	X7R	2,000V	.022µF	±10%	2.54	478-5941-1-ND ***NEW!***	15.84	132.00	440.00	478-5941-2-ND ***NEW!***	1,000	634.00	1825GC223KAT1A
	X7R	1,000V	.10µF	±10%	2.00	478-4006-1-ND	42.90	253.50	731.25	478-4006-2-ND	1,000	702.00	1825AC104KAT1A
	X7R	1,000V	47000pF	±10%	2.54	478-3014-1-ND	46.20	273.00	787.50	478-3014-2-ND	1,000	540.00	1825AC473KAT1A
	X7R	630V	.10µF	±10%	2.54	478-3015-1-ND	46.20	273.00	787.50	478-3015-2-ND	1,000	540.00	1825CC104KAT1A
	X7R	630V	.15µF	±10%	2.54	478-3016-1-ND	46.20	273.00	787.50	478-3016-2-ND	1,000	540.00	1825CC154KAT1A
	X7R	630V	.27µF	±10%	2.54	478-5944-1-ND ***NEW!***	18.36	153.00	510.00	478-5944-2-ND ***NEW!***	1,000	734.00	1825CC274KAT1A
	X7R	50V	.47µF	±10%	1.27	478-6001-1-ND ***NEW!***	44.00	260.00	750.00	478-6001-2-ND ***NEW!***	1,000	720.00	18255C474KAT2A
	X7R	50V	1.0µF	±10%	1.27	478-3829-1-ND	49.50	292.50	843.75	478-3829-2-ND	1,000	791.00	18255C105KAT2A
2220	X7R	3,000V	5600pF	±10%	3.30	478-5966-1-ND ***NEW!***	17.28	144.00	480.00	478-5966-2-ND ***NEW!***	1,000	691.00	2220HC562KAT1A
	X7R	3,000V	6800pF	±10%	3.30	478-5929-1-ND ***NEW!***	18.36	153.00	510.00	478-5929-2-ND ***NEW!***	1,000	734.00	2220HC682KAT1A
	X7R	3,000V	10000pF	±10%	3.30	478-5968-1-ND ***NEW!***	18.00	150.00	500.00	478-5968-2-ND ***NEW!***	1,000	720.00	2220HC103KAT1A
	X7R	3,000V	.012µF	±10%	3.30	478-5931-1-ND ***NEW!***	35.28	294.00	980.00	478-5931-2-ND ***NEW!***	1,000	1411.00	2220HC123KAT1A
	X7R	2,500V	.018µF	±10%	3.30	478-5925-1-ND ***NEW!***	23.04	192.00	—	478-5925-2-ND ***NEW!***	500	461.00	2220WC183KAT1A
	X7R	2,000V	10000pF	±10%	3.30	478-3020-1-ND	85.80	507.00	1462.50	478-3020-2-ND	1,000	1080.00	2220GC103KAT1A
	X7R	2,000V	10000pF	±20%	3.30	478-4739-1-ND	66.00	390.00	1125.00	478-4739-2-ND	1,000	1080.00	2220GC103MAT1A
	X7R	2,000V	.027µF	±10%	3.30	478-5969-1-ND ***NEW!***	19.44	162.00	—	478-5969-2-ND ***NEW!***	500	389.00	2220GC273KAT1A
	X7R	1,500V	.047µF	±10%	3.30	478-5927-1-ND ***NEW!***	18.72	156.00	520.00	478-5927-2-ND ***NEW!***	1,000	749.00	2220SC473KAT1A
	X7R	1,000V	.10µF	±10%	3.30	478-5970-1-ND ***NEW!***	20.81	173.40	—	478-5970-2-ND ***NEW!***	500	416.00	2220AC104KAT1A
	X7R	1,000V	.12µF	±10%	3.30	478-5935-1-ND ***NEW!***	21.38	178.20	594.00	478-5935-2-ND ***NEW!***	1,000	855.00	2220AC124KAT1A
	X7R	630V	.27µF	±10%	3.30	478-5933-1-ND ***NEW!***	21.46	178.80	—	478-5933-2-ND ***NEW!***	500	429.00	2220CC274KAT1A
	X7R	50V	1.0µF	±10%	3.30	478-3019-1-ND	85.80	507.00	1462.50	478-3019-2-ND	1,000	1080.00	22205C105KAT1A
	X7R	50V	10µF	±10%	2.79	478-5048-1-ND	88.00	520.00	—	478-5048-2-ND	500	720.00	22205C106KAT2A
	X7R	50V	10µF	±20%	2.79	478-5731-1-ND ***NEW!***	60.50	357.50	—	478-5731-2-ND ***NEW!***	500	495.00	22205C106MAT2A
2225	C0G (NP0)	1,000V	8200pF	±10%	2.54	478-3022-1-ND	85.80	507.00	—	478-3022-2-ND	500	540.00	2225AA822KAT1A
	X7R	3,000V	10000pF	±10%	2.54	478-5965-1-ND ***NEW!***	17.28	144.00	480.00	478-5965-2-ND ***NEW!***	1,000	691.00	2225HC103KAT1A
	X7R	3,000V	.015µF	±10%	2.54	478-5921-1-ND ***NEW!***	25.92	216.00	720.00	478-5921-2-ND ***NEW!***	1,000	1037.00	2225HC153KAT1A
	X7R	2,500V	10000pF	±10%	2.54	478-4742-1-ND	71.50	422.50	1218.75	478-4742-2-ND	1,000	1170.00	2225WC103KAT1A
	X7R	2,500V	.022µF	±10%	2.54	478-5917-1-ND ***NEW!***	23.31	194.28	647.60	478-5917-2-ND ***NEW!***	1,000	933.00	2225WC223KAT1A
	X7R	2,000V	10000pF	±10%	2.54	478-3024-1-ND	85.80	507.00	1462.50	478-3024-2-ND	1,000	1080.00	2225GC103KAT1A
	X7R	2,000V	.033µF	±10%	2.54	478-5924-1-ND ***NEW!***	25.92	216.00	720.00	478-5924-2-ND ***NEW!***	1,000	1037.00	2225GC333KAT1A
	X7R	1,500V	.068µF	±10%	2.54	478-5919-1-ND ***NEW!***	21.60	180.00	600.00	478-5919-2-ND ***NEW!***	1,000	864.00	2225SC683KAT1A
	X7R	1,000V	.10µF	±10%	2.54	478-4741-1-ND	71.50	422.50	1218.75	478-4741-2-ND	1,000	1170.00	2225AC104KAT1A
	X7R	630V	.10µF	±10%	2.54	478-4717-1-ND	77.00	455.00	1312.50	478-4717-2-ND	1,000	1260.00	2225CC104KAT1A
	X7R	630V	.22µF	±10%	2.54	478-3023-1-ND	85.80	507.00	—	478-3023-2-ND	500	540.00	2225CC224KAT1A
	X7R	200V	.33µF	±10%	2.54	478-3021-1-ND	85.80	507.00	—	478-3021-2-ND	500	540.00	22252C334KAT1A
	X7R	100V	1.0µF	±10%	1.52	478-6002-1-ND ***NEW!***	60.50	357.50	1031.25	478-6002-2-ND ***NEW!***	1,000	990.00	22251C105KAT2A
	X7R	50V	1.0µF	±10%	1.27	478-5788-1-ND ***NEW!***	55.64	328.77	948.38	478-5788-2-ND ***NEW!***	1,000	910.00	22255C105KAT2A

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Flexisafe Multilayer Ceramic Chip Capacitors

For Ultra Safety Critical Applications

AVX has developed a range of components specifically for safety critical applications. Utilizing the award-winning FLEXITERM™ layer in conjunction with the cascade (MLSC) design previously used for high voltage MLCC's, a range of ceramic capacitors is now available for customers who require components designed with an industry leading set of safety features.

The FLEXITERM layer protects the component from any damage to the ceramic resulting from mechanical stress during PCB assembly or use with end customers. Board flexure type mechanical damage accounts for the majority of MLCC failures.The addition of the cascade (MLSC) structure protects the component from low insulation resistance failure resulting from other common causes for failure: thermal stress damage, repetitive strike ESD damage, and placement damage. With the inclusion of the cascade design structure to complement the FLEXITERM layer, the FLEXISAFE series of capacitors has unbeatable safety features.

Size Code	Dimensions - mm		
	L	W	t
0805	2.01 ±0.20	1.25 ±0.20	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.50 ±0.25

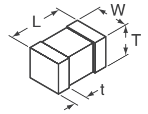

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 2,000	AVX Part No.
0805	X7R	50V	1000pF	±10%	1.27	478-4317-1-ND	3.74	22.10	63.75	478-4317-2-ND	61.00/M	FS055C102KAZ2A
	X7R	50V	10000pF	±10%	1.27	478-4316-1-ND	3.74	22.10	63.75	478-4316-2-ND	61.00/M	FS055C103KAZ2A
	X7R	50V	.10µF	±10%	1.27	478-4315-1-ND	4.95	29.25	84.38	478-4315-2-ND	81.00/M	FS055C104KAZ2A
1206	X7R	50V	1000pF	±10%	0.94	478-4643-1-ND	4.40	26.00	75.00	478-4643-2-ND	72.00/M	FS065C102KAZ2A
	X7R	50V	3300pF	±10%	1.27	478-4644-1-ND	4.40	26.00	75.00	478-4644-2-ND	72.00/M	FS065C332KAZ2A

Multilayer Ceramic Chip Capacitors

with Soft Termination

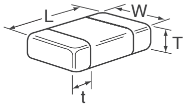

With increased requirements from the automotive industry for additional component robustness, AVX recognized the need to produce a MLCC with enhanced mechanical strength. It was noted that many components may be subject to severe flexing and vibration when used in various under-the-bonnet automotive applications. To satisfy the requirement for enhanced mechanical strength, AVX had to find a way of ensuring electrical integrity is maintained whilst external forces are being applied to the component. It was found that the structure of the termination needed to be flexible and after much research and development, a "soft termination" was found. This soft termination is designed to enhance the mechanical flexure and temperature cycling performance of a standard ceramic capacitor with a X7R dielectric. The industry standard for flexure is 2mm minimum. With Soft Termination, AVX guarantees a minimum flexure of 5mm, without any internal cracks. Beyond 5mm, generally the component will open. The industry standard for temperature cycling is 1,000 cycles - AVX guarantees 3,000 cycles. As well as for automotive applications, the soft termination will provide design engineers with a satisfactory solution when designing PCBs which may be subject to high levels of board flexure.

Features:

- High mechanical performance able to withstand 5mm bend test guaranteed
- Open failure mode is apparent when products are overstressed by 5mm
- Increased temperature cycling performance for 3000 cycles and beyond
- Reduction in circuit board flex failures
- Base metal electrode system.

Size Code	Dimensions - mm		
	L	W	t
0603	1.60 ±0.15	0.81 ±0.15	0.35 ±0.15
0805	2.01 ±0.20	1.25 ±0.20	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.50 ±0.25
1210	3.20 ±0.20	2.50 ±0.20	0.50 ±0.25
1808	4.57 ±0.25	2.03 ±0.25	0.64 ±0.39
1812	4.50 ±0.30	3.20 ±0.20	0.61 ±0.36
1825	4.50 ±0.30	6.40 ±0.30	0.64 ±0.39
2220	5.70 ±0.40	5.00 ±0.40	0.64 ±0.39
2225	5.72 ±0.25	6.35 ±0.25	0.64 ±0.39

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
0603	X7R	100V	330pF	±5%	0.90	478-5282-1-ND	4.16	24.57	70.88	478-5282-2-ND	4,000	68.00/M	06031C331JAZ2A
	X7R	100V	470pF	±5%	0.90	478-5284-1-ND	4.16	24.57	70.88	478-5284-2-ND	4,000	68.00/M	06031C471JAZ2A
	X7R	100V	680pF	±5%	0.90	478-5286-1-ND	4.16	24.57	70.88	478-5286-2-ND	4,000	68.00/M	06031C681JAZ2A
	X7R	100V	1000pF	±5%	0.90	478-5278-1-ND	4.16	24.57	70.88	478-5278-2-ND	4,000	68.00/M	06031C102JAZ2A
	X7R	100V	1500pF	±5%	0.90	478-5280-1-ND	4.16	24.57	70.88	—	—	—	06031C152JAZ2A
	X7R	100V	2200pF	±5%	0.90	478-5281-1-ND	4.16	24.57	70.88	478-5281-2-ND	4,000	68.00/M	06031C222JAZ2A
	X7R	100V	3300pF	±5%	0.90	478-5283-1-ND	4.16	24.57	70.88	478-5283-2-ND	4,000	68.00/M	06031C332JAZ2A
	X7R	100V	4700pF	±5%	0.90	478-5285-1-ND	4.16	24.57	70.88	—	—	—	06031C472JAZ2A
	X7R	100V	10000pF	±5%	0.90	478-5279-1-ND	4.16	24.57	70.88	478-5279-2-ND	4,000	68.00/M	06031C103JAZ2A
	X7R	50V	1000pF	±5%	0.90	478-5288-1-ND	4.16	24.57	70.88	—	—	—	06035C102JAZ2A
	X7R	50V	1000pF	±10%	0.90	478-3526-1-ND	2.93	17.29	49.88	478-3526-2-ND	4,000	36.00/M	06035C102KAZ2A
	X7R	50V	1500pF	±10%	0.90	478-3527-1-ND	2.93	17.29	49.88	478-3527-2-ND	4,000	36.00/M	06035C152KAZ2A
	X7R	50V	2200pF	±10%	0.90	478-3528-1-ND	2.77	16.38	47.25	478-3528-2-ND	4,000	34.00/M	06035C222KAZ2A
	X7R	50V	3300pF	±10%	0.90	478-3529-1-ND	2.93	17.29	49.88	478-3529-2-ND	4,000	36.00/M	06035C332KAZ2A
	X7R	50V	4700pF	±10%	0.90	478-3530-1-ND	2.93	17.29	49.88	478-3530-2-ND	4,000	36.00/M	06035C472KAZ2A
	X7R	50V	6800pF	±10%	0.90	478-3531-1-ND	2.93	17.29	49.88	478-3531-2-ND	4,000	36.00/M	06035C682KAZ2A
	X7R	50V	10000pF	±5%	0.90	478-5289-1-ND	4.16	24.57	70.88	478-5289-2-ND	4,000	68.00/M	06035C103JAZ2A
	X7R	50V	10000pF	±10%	0.90	478-3532-1-ND	2.93	17.29	49.88	478-3532-2-ND	4,000	36.00/M	06035C103KAZ2A
	X7R	50V	15000pF	±10%	0.90	478-3533-1-ND	4.00	23.66	68.25	478-3533-2-ND	4,000	49.00/M	06035C153KAZ2A
	X7R	50V	22000pF	±5%	0.90	478-5290-1-ND	5.39	31.85	91.88	478-5290-2-ND	4,000	88.00/M	06035C223JAZ2A
	X7R	50V	33000pF	±10%	0.90	478-3535-1-ND	4.31	25.48	73.50	478-3535-2-ND	4,000	52.00/M	06035C333KAZ2A
	X7R	25V	47000pF	±5%	0.90	478-5287-1-ND	8.62	50.96	147.00	478-5287-2-ND	4,000	141.00/M	06033C473JAZ2A
	X7R	25V	47000pF	±10%	0.90	478-3536-1-ND	4.31	25.48	73.50	478-3536-2-ND	4,000	52.00/M	06035C473KAZ2A
	X7R	25V	.10µF	±10%	0.90	478-3540-1-ND	3.85	22.75	65.63	478-3540-2-ND	4,000	63.00/M	06035C104KAZ2A
	X7R	25V	.10µF	±10%	0.90	478-3539-1-ND	6.93	40.95	118.13	478-3539-2-ND	4,000	85.00/M	06033C104KAZ2A
	X7R	16V	.10µF	±5%	0.90	478-5291-1-ND	6.93	40.95	118.13	478-5291-2-ND	4,000	113.00/M	0603YC104JAZ2A
	X7R	16V	.10µF	±10%	0.90	478-3538-1-ND	5.54	32.76	94.50	478-3538-2-ND	4,000	68.00/M	0603YC104KAZ2A
0805	X7R	1,000V	470pF	±10%	1.30	478-5338-1-ND	17.05	100.75	290.63	478-5338-2-ND	2,000	279.00/M	0805AC471KAZ1A
	X7R	100V	1000pF	±10%	0.94	478-6040-1-ND ***NEW!***	2.75	16.25	46.88	478-6040-2-ND ***NEW!***	4,000	45.00/M	08051C102KAZ2A
	X7R	100V	10000pF	±10%	0.94	478-3559-1-ND	3.23	19.11	55.13	478-3559-2-ND	4,000	40.00/M	08051C103KAZ2A
	X7R	100V	22000pF	±10%	1.27	478-3560-1-ND	3.70	21.84	63.00	478-3560-2-ND	4,000	45.00/M	08051C223KAZ2A
	X7R	100V	47000pF	±10%	1.27	478-3561-1-ND	3.70	21.84	63.00	478-3561-2-ND	2,000	45.00/M	08051C473KAZ2A
	X7R	100V	.10µF	±10%	1.40	478-3562-1-ND	5.08	30.03	86.63	478-3562-2-ND	2,000	63.00/M	08051C104KAZ2A
	X7R	50V	1000pF	±5%	0.94	478-5292-1-ND	4.47	26.39	76.13	478-5292-2-ND	4,000	73.00/M	08055C102JAZ2A
	X7R	50V	1000pF	±10%	0.94	478-3541-1-ND	3.47	20.48	59.06	478-3541-2-ND	4,000	43.00/M	08055C102KAZ2A
	X7R	50V	.10µF	±5%	0.94	478-5721-1-ND ***NEW!***	34.10	201.50	581.25	478-5721-2-ND ***NEW!***	4,000	34.00/M	08055C104J4Z2A
	X7R	50V	1500pF	±10%	0.94	478-3542-1-ND	3.47	20.48	59.06	478-3542-2-ND	4,000	43.00/M	08055C152KAZ2A
	X7R	50V	2200pF	±10%	0.94	478-3543-1-ND	3.47	20.48	59.06	478-3543-2-ND	4,000	43.00/M	08055C222KAZ2A
	X7R	50V	3300pF	±10%	0.94	478-3544-1-ND	3.47	20.48	59.06	478-3544-2-ND	4,000	43.00/M	08055C332KAZ2A
	X7R	50V	4700pF	±5%	0.94	478-5296-1-ND	4.47	26.39	76.13	478-5296-2-ND	4,000	73.00/M	08055C472JAZ2A
	X7R	50V	4700pF	±10%	0.94	478-3545-1-ND	4.90	28.93	83.44	478-3545-2-ND	4,000	59.00/M	08055C472KAZ2A
	X7R	50V	6800pF	±10%	0.94	478-3546-1-ND	4.90	28.93	83.44	478-3546-2-ND	4,000	59.00/M	08055C682KAZ2A
	X7R	50V	10000pF	±5%	0.94	478-5293-1-ND	4.47	26.39	76.13	478-5293-2-ND	4,000	73.00/M	08055C103JAZ2A
	X7R	50V	10000pF	±10%	0.94	478-3547-1-ND	4.90	28.93	83.44	478-3547-2-ND	4,000	59.00/M	08055C103KAZ2A
	X7R	50V	15000pF	±10%	0.94	478-3548-1-ND	4.90	28.93	83.44	478-3548-2-ND	4,000	59.00/M	08055C153KAZ2A
	X7R	50V	22000pF	±10%	0.94	478-3549-1-ND	4.90	28.93	83.44	478-3549-2-ND	4,000	59.00/M	08055C223KAZ2A
	X7R	50V	33000pF	±5%	0.94	478-5295-1-ND	5.08	30.03	86.63	478-5295-2-ND	4,000	83.00/M	08055C333JAZ2A
	X7R	50V	33000pF	±10%	0.94	478-3550-1-ND	4.90	28.93	83.44	478-3550-2-ND	4,000	59.00/M	08055C333KAZ2A
	X7R	50V	47000pF	±5%	0.94	478-5297-1-ND	5.08	30.03	86.63	478-5297-2-ND	4,000	83.00/M	08055C473JAZ2A
	X7R	50V	47000pF	±10%	0.94	478-3551-1-ND	4.90	28.93	83.44	478-3551-2-ND	4,000	59.00/M	08055C473KAZ2A
	X7R	50V	68000pF	±10%	0.94	478-3552-1-ND	4.90	28.93	83.44	478-3552-2-ND	4,000	59.00/M	08055C683KAZ2A
	X7R	50V	.10µF	±5%	0.94	478-5294-1-ND	5.08	30.03	86.63	478-5294-2-ND	4,000	83.00/M	08055C104JAZ2A
	X7R	50V	.10µF	±10%	0.94	478-3553-1-ND	3.70	21.84	63.00	478-3553-2-ND	4,000	45.00/M	08055C104KAZ2A
	X7R	50V	.22µF	±10%	1.40	478-3555-1-ND	4.93	29.12	84.00	478-3555-2-ND	2,000	61.00/M	08055C224KAZ2A
	X7R	25V	.33µF	±10%	1.40	478-3556-1-ND	4.93	29.12	84.00	478-3556-2-ND	2,000	61.00/M	08053C334KAZ2A
	X7R	25V	1.0µF	±10%	1.40	478-3558-1-ND	35.20	208.00	600.00	478-3558-2-ND	2,000	576.00/M	08053C105KAZ2A
	X7R	10V	1.0µF	±10%	1.40	478-3557-1-ND	21.56	127.40	367.50	478-3557-2-ND	2,000	265.00/M	0805ZC105KAZ2A
1206	X7R	2,000V	100pF	±10%	1.52	478-4599-1-ND	6.75	56.25	187.50	478-4599-2-ND	2,000	270.00/M	1206GC101KAZ1A
	X7R	2,000V	470pF	±10%	1.52	478-4660-1-ND	16.50	97.50	281.25	478-4660-2-ND	2,000	198.00/M	1206GC471KAZ1A
	X7R	2,000V	1000pF	±10%	1.52	478-4600-1-ND	6.75	56.25	187.50	478-4600-2-ND	2,000	270.00/M	1206GC102KAZ1A

(Continued)

Multilayer Ceramic Chip Capacitors with Soft Termination *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	1,000V	2200pF	±10%	1.52	478-4658-1-ND	16.50	97.50	281.25	478-4658-2-ND	2,000	198.00/M	1206AC222KAZ1A
	X7R	1,000V	4700pF	±10%	1.52	478-4668-1-ND	16.50	97.50	281.25	478-4668-2-ND	2,000	198.00/M	1206AC472KAZ1A
	X7R	1,000V	6800pF	±10%	1.52	478-5354-1-ND	16.50	97.50	281.25	478-5354-2-ND	2,000	270.00/M	1206AC682KAZ1A
	X7R	630V	10000pF	±10%	1.52	478-4659-1-ND	16.50	97.50	281.25	478-4659-2-ND	2,000	198.00/M	1206CC103KAZ1A
	X7R	100V	1000pF	±10%	0.94	478-3576-1-ND	4.47	26.39	76.13	478-3576-2-ND	4,000	54.00/M	12061C102KAZ2A
	X7R	100V	2200pF	±5%	0.94	478-5299-1-ND	4.73	27.95	80.63	—	—	—	12061C222JAZ2A
	X7R	100V	4700pF	±5%	0.94	478-5302-1-ND	4.73	27.95	80.63	—	—	—	12061C472JAZ2A
	X7R	100V	6800pF	±5%	0.94	478-5304-1-ND	4.73	27.95	80.63	478-5304-2-ND	4,000	77.00/M	12061C682JAZ2A
	X7R	100V	10000pF	±5%	0.94	478-5298-1-ND	4.73	27.95	80.63	478-5298-2-ND	4,000	77.00/M	12061C103JAZ2A
	X7R	100V	10000pF	±10%	0.94	478-3577-1-ND	4.47	26.39	76.13	478-3577-2-ND	4,000	54.00/M	12061C103KAZ2A
	X7R	100V	22000pF	±5%	0.94	478-5300-1-ND	5.54	32.76	94.50	478-5300-2-ND	4,000	91.00/M	12061C223JAZ2A
	X7R	100V	33000pF	±5%	0.94	478-5301-1-ND	5.54	32.76	94.50	478-5301-2-ND	4,000	91.00/M	12061C333JAZ2A
	X7R	100V	47000pF	±20%	0.94	478-5303-1-ND	4.73	27.95	80.63	478-5303-2-ND	2,000	77.00/M	12061C473MAZ2A
	X7R	100V	.10µF	±10%	1.78	478-3578-1-ND	3.85	22.75	65.63	478-3578-2-ND	2,000	63.00/M	12061C104KAZ2A
	X7R	100V	.22µF	±10%	1.78	478-3579-1-ND	15.25	90.09	259.88	478-3579-2-ND	2,000	187.00/M	12061C224KAZ2A
	X7R	100V	.33µF	±10%	1.78	478-3580-1-ND	15.25	90.09	259.88	478-3580-2-ND	2,000	187.00/M	12061C334KAZ2A
	X7R	50V	1000pF	±10%	0.94	478-3563-1-ND	4.16	24.57	70.88	478-3563-2-ND	4,000	50.00/M	12065C102KAZ2A
	X7R	50V	10000pF	±10%	0.94	478-3564-1-ND	4.53	26.78	77.25	478-3564-2-ND	4,000	56.00/M	12065C103KAZ2A
	X7R	50V	15000pF	±10%	0.94	478-3565-1-ND	4.53	26.78	77.25	478-3565-2-ND	4,000	56.00/M	12065C153KAZ2A
	X7R	50V	22000pF	±10%	0.94	478-3566-1-ND	4.53	26.78	77.25	478-3566-2-ND	4,000	56.00/M	12065C223KAZ2A
	X7R	50V	33000pF	±10%	0.94	478-3567-1-ND	4.53	26.78	77.25	478-3567-2-ND	4,000	56.00/M	12065C333KAZ2A
	X7R	50V	47000pF	±10%	0.94	478-3568-1-ND	4.53	26.78	77.25	478-3568-2-ND	4,000	56.00/M	12065C473KAZ2A
	X7R	50V	68000pF	±10%	0.94	478-3569-1-ND	4.53	26.78	77.25	478-3569-2-ND	4,000	56.00/M	12065C683KAZ2A
	X7R	50V	.10µF	±5%	0.94	478-5306-1-ND	5.39	31.85	91.88	478-5306-2-ND	4,000	88.00/M	12065C104JAZ2A
	X7R	50V	.10µF	±10%	0.94	478-3570-1-ND	4.97	29.38	84.75	478-3570-2-ND	4,000	61.00/M	12065C104KAZ2A
	X7R	50V	.15µF	±10%	0.94	478-3571-1-ND	6.77	39.98	115.31	478-3571-2-ND	4,000	83.00/M	12065C154KAZ2A
	X7R	50V	.22µF	±10%	0.94	478-3572-1-ND	6.77	39.98	115.31	478-3572-2-ND	2,000	83.00/M	12065C224KAZ2A
	X7R	50V	.22µF	±20%	0.94	478-5307-1-ND	6.62	39.13	112.88	478-5307-2-ND	2,000	108.00/M	12065C224MAZ2A
	X7R	50V	.47µF	±10%	1.52	478-3573-1-ND	10.45	61.75	178.13	478-3573-2-ND	2,000	128.00/M	12065C474KAZ2A
	X7R	25V	.47µF	±20%	1.27	478-5305-1-ND	8.62	50.96	147.00	—	—	—	12063C474MAZ2A
	X7R	25V	2.2µF	±10%	1.78	478-3575-1-ND	18.02	106.47	307.13	478-3575-2-ND	2,000	221.00/M	12063C225KAZ2A
	X7R	16V	1.0µF	±10%	1.27	478-3574-1-ND	15.25	90.09	259.88	478-3574-2-ND	2,000	187.00/M	1206YC105KAZ2A
	X7R	16V	1.0µF	±20%	1.27	478-5308-1-ND	15.25	90.09	259.88	—	—	—	1206YC105MAZ2A
1210	X7R	2,000V	3300pF	±10%	1.70	478-5964-1-ND ***NEW!***	6.34	52.80	176.00	478-5964-2-ND ***NEW!***	2,000	253.00/M	1210GC332KAZ1A
	X7R	2,000V	1000pF	±10%	1.70	478-4602-1-ND	9.00	75.00	250.00	478-4602-2-ND	2,000	360.00/M	1210GC102KAZ1A
	X7R	1,500V	5600pF	±10%	1.70	478-5961-1-ND ***NEW!***	5.76	48.00	160.00	478-5961-2-ND ***NEW!***	2,000	230.00/M	1210SC562KAZ1A
	X7R	1,000V	10000pF	±10%	1.70	478-4601-1-ND	9.00	75.00	250.00	478-4601-2-ND	2,000	360.00/M	1210AC103KAZ1A
	X7R	100V	.10µF	±10%	1.52	478-3581-1-ND	7.70	45.50	131.25	478-3581-2-ND	4,000	95.00/M	12101C104KAZ2A
	X7R	100V	.33µF	±10%	1.78	478-3582-1-ND	14.17	83.72	241.50	478-3582-2-ND	2,000	175.00/M	12101C334KAZ2A
	X7R	100V	.47µF	±10%	1.78	478-3583-1-ND	10.12	59.80	172.50	478-3583-2-ND	2,000	166.00/M	12101C474KAZ2A
	X7R	100V	.68µF	±10%	2.29	478-3584-1-ND	23.21	137.15	395.63	478-3584-2-ND	1,000	284.00	12101C684KAZ2A
	X7R	100V	1.0µF	±10%	2.79	478-3585-1-ND	24.64	145.60	420.00	478-3585-2-ND	1,000	302.00	12101C105KAZ2A
	X7R	50V	.10µF	±10%	1.02	478-3586-1-ND	7.24	42.77	123.38	478-3586-2-ND	4,000	88.00/M	12105C104KAZ2A
	X7R	50V	.22µF	±10%	1.27	478-3587-1-ND	9.68	57.20	165.00	478-3587-2-ND	2,000	119.00/M	12105C224KAZ2A
	X7R	50V	.33µF	±10%	1.52	478-3588-1-ND	16.94	100.10	288.75	478-3588-2-ND	2,000	209.00/M	12105C334KAZ2A
	X7R	50V	.47µF	±10%	1.52	478-3589-1-ND	7.81	46.15	133.13	478-3589-2-ND	2,000	128.00/M	12105C474KAZ2A
	X7R	50V	2.2µF	±10%	2.79	478-3591-1-ND	49.28	291.20	840.00	478-3591-2-ND	1,000	605.00	12105C225KAZ2A
	X7R	50V	4.7µF	±10%	1.70	478-4523-1-ND	25.11	209.25	697.50	478-4523-2-ND	1,000	846.00	12105C475KAZ2A
1808	X7R	3,000V	1800pF	±10%	2.03	478-5955-1-ND ***NEW!***	9.00	75.00	250.00	478-5955-2-ND ***NEW!***	2,000	360.00/M	1808HC182KAZ1A
	X7R	3,000V	1000pF	±10%	2.03	478-4603-1-ND	13.50	112.50	375.00	478-4603-2-ND	2,000	540.00/M	1808HC102KAZ1A
	X7R	3,000V	1000pF	±20%	2.03	478-4604-1-ND	12.83	106.88	356.25	478-4604-2-ND	2,000	513.00/M	1808HC102MAZ1A
	X7R	2,000V	3300pF	±10%	2.03	478-5957-1-ND ***NEW!***	7.92	66.00	220.00	478-5957-2-ND ***NEW!***	2,000	317.00/M	1808GC332KAZ1A
	X7R	1,000V	10000pF	±10%	2.03	478-4661-1-ND	27.50	162.50	468.75	478-4661-2-ND	2,000	450.00/M	1808AC103KAZ1A
	X7R	630V	.068µF	±10%	2.03	478-5959-1-ND ***NEW!***	8.64	72.00	240.00	478-5959-2-ND ***NEW!***	2,000	346.00/M	1808CC683KAZ1A
1812	X7R	3,000V	470pF	±10%	2.54	478-4665-1-ND	27.50	162.50	468.75	478-4665-2-ND	2,000	450.00/M	1812HC471KAZ1A
	X7R	3,000V	1000pF	±10%	2.54	478-4607-1-ND	14.40	120.00	400.00	478-4607-2-ND	1,000	576.00	1812HC102KAZ1A
	X7R	3,000V	1000pF	±20%	2.54	478-4608-1-ND	13.68	114.00	380.00	478-4608-2-ND	1,000	547.00	1812HC102MAZ1A
	X7R	3,000V	2200pF	±10%	2.54	478-5353-1-ND	35.20	208.00	600.00	478-5353-2-ND	1,000	576.00	1812HC222KAZ1A
	X7R	3,000V	2700pF	±10%	2.54	478-5949-1-ND ***NEW!***	7.44	62.04	206.80	478-5949-2-ND ***NEW!***	1,000	298.00	1812HC272KAZ1A
	X7R	3,000V	3300pF	±10%	2.54	478-5947-1-ND ***NEW!***	12.24	102.00	340.00	478-5947-2-ND ***NEW!***	1,000	490.00	1812HC332KAZ1A
	X7R	3,000V	3900pF	±10%	2.54	478-5945-1-ND ***NEW!***	14.04	117.00	390.00	478-5945-2-ND ***NEW!***	1,000	562.00	1812HC392KAZ1A
	X7R	2,000V	8200pF	±10%	2.54	478-5950-1-ND ***NEW!***	9.16	76.32	254.40	478-5950-2-ND ***NEW!***	1,000	366.00	1812GC822KAZ1A
	X7R	2,000V	4700pF	±10%	2.54	478-4606-1-ND	14.40	120.00	400.00	478-4606-2-ND	1,000	576.00	1812GC472KAZ1A
	X7R	1,000V	10000pF	±10%	2.54	478-4605-1-ND	14.40	120.00	400.00	478-4605-2-ND	1,000	576.00	1812AC103KAZ1A
	X7R	1,000V	27000pF	±10%	2.54	478-4662-1-ND	35.20	208.00	600.00	478-4662-2-ND	2,000	414.00/M	1812AC273KAZ1A
	X7R	630V	47000pF	±10%	2.54	478-4664-1-ND	35.20	208.00	600.00	478-4664-2-ND	1,000	414.00	1812CC473KAZ1A
	X7R	630V	.012µF	±10%	2.54	478-5953-1-ND ***NEW!***	8.64	72.00	240.00	478-5953-2-ND ***NEW!***	1,000	346.00	1812CC123KAZ1A
	X7R	630V	.10µF	±10%	2.54	478-4663-1-ND	27.50	162.50	468.75	478-4663-2-ND	1,000	450.00	1812CC104KAZ1A
	X7R	100V	.47µF	±10%	2.29	478-3596-1-ND	62.70	370.50	1068.75	478-3596-2-ND	1,000	770.00	18121C474KAZ2A
	X7R	100V	.68 µF	±10%	2.79	478-3597-1-ND	62.70	370.50	1068.75	478-3597-2-ND	1,000	770.00	18121C684KAZ2A
	X7R	100V	1.0µF	±10%	2.79	478-3598-1-ND	47.08	278.20	802.50	478-3598-2-ND	1,000	770.00	18121C105KAZ2A
	X7R	100V	2.2µF	±10%	2.79	478-3599-1-ND	92.40	546.00	—	478-3599-2-ND	500	567.00	18121C225KAZ2A
	X7R	50V	.47µF	±10%	2.29	478-3593-1-ND	49.50	292.50	843.75	478-3593-2-ND	1,000	608.00	18125C474KAZ2A
	X7R	50V	.68µF	±10%	2.29	478-3594-1-ND	62.70	370.50	1068.75	478-3594-2-ND	1,000	770.00	18125C684KAZ2A
	X7R	50V	1.0µF	±10%	2.29	478-3595-1-ND	46.20	273.00	787.50	478-3595-2-ND	1,000	567.00	18125C105KAZ2A
1825	X7R	3,000V	10000pF	±10%	2.54	478-5938-1-ND ***NEW!***	16.99	141.60	472.00	478-5938-2-ND ***NEW!***	1,000	680.00	1825HC103KAZ1A
	X7R	2,500V	.015µF	±10%	2.54	478-5936-1-ND ***NEW!***	16.13	134.40	—	478-5936-2-ND ***NEW!***	500	322.50	1825WC153KAZ1A
	X7R	2,000V	10000pF	±10%	2.54	478-4670-1-ND	46.20	273.00	787.50	478-4670-2-ND	1,000	756.00	1825GC103KAZ1A
	X7R	2,000V	15000pF	±20%	2.54	478-5340-1-ND	43.89	259.35	748.13	478-5340-2-ND	1,000	718.00	1825GC153MAZ1A
	X7R	2,000V	.022µF	±10%	2.54	478-5940-1-ND ***NEW!***	19.44	162.00	540.00	478-5940-2-ND ***NEW!***	1,000	778.00	1825GC223KAZ1A
	X7R	1,000V	.10µF	±10%	2.54	478-4669-1-ND	46.20	273.00	787.50	478-4669-2-ND	1,000	756.00	1825AC104KAZ1A
	X7R	1,000V	47000pF	±10%	2.54	478-4609-1-ND	18.90	157.50	525.00	478-4609-2-ND	1,000	756.00	1825AC473KAZ1A
	X7R	630V	.10µF	±10%	2.54	478-4610-1-ND	18.90	157.50	525.00	478-4610-2-ND	1,000	756.00	1825CC104KAZ1A
	X7R	630V	.27µF	±10%	2.54	478-5943-1-ND ***NEW!***	22.32	186.00	620.00	478-5943-2-ND ***NEW!***	1,000	893.00	1825CC274KAZ1A
2220	X7R	3,000V	10000pF	±10%	3.30	478-5967-1-ND ***NEW!***	22.72	189.30	—	478-5967-2-ND ***NEW!***	500	454.50	2220HC103KAZ1A
	X7R	3,000V	6800pF	±10%	3.30	478-5928-1-ND ***NEW!***	20.65	172.08	573.60	478-5928-2-ND ***NEW!***	1,000	826.00	2220HC682KAZ1A
	X7R	3,000V	.012µF	±10%	3.30	478-5930-1-ND ***NEW!***	38.16	318.00	1060.00	478-5930-2-ND ***NEW!***	1,000	1526.00	2220HC123KAZ1A
	X7R	2,000V	10000pF	±10%	3.30	478-4611-1-ND	85.80	507.00	1462.50	478-4611-2-ND	1,000	1404.00	2220GC103KAZ1A
	X7R	2,000V	.027µF	±10%	3.30	478-5932-1-ND ***NEW!***	23.75	197.94	—	478-5932-2-ND ***NEW!***	500	475.00	2220GC273KAZ1A
	X7R	1,500V	.047µF	±10%	3.30	478-5926-1-ND ***NEW!***	22.76	189.66	632.20	478-5926-2-ND ***NEW!***	1,000	910.00	2220SC473KAZ1A
	X7R	1,000V	.10µF	±10%	3.30	478-5341-1-ND	85.80	507.00	1462.50	478-5341-2-ND	1,000	1404.00	2220AC104KAZ1A
	X7R	1,000V	.12µF	±10%	3.30	478-5934-1-ND ***NEW!***	25.20	210.00	—	478-5934-2-ND ***NEW!***	500	504.00	2220AC124KAZ1A
	X7R	630V	.27µF	±10%	3.30	478-5342-1-ND	85.80	507.00	1462.50	478-5342-2-ND	1,000	1404.00	2220CC274KAZ1A
	X7R	600/630V	.22µF	±10%	3.30	478-5412-1-ND	71.50	422.50	1218.75	478-5412-2-ND	1,000	1170.00	2220CC224KAZ1A
	X7R	50V	10µF	±10%	3.30	478-4522-1-ND	38.70	322.50	—	478-4522-2-ND	500	774.00	22205C106KAZ2A
2225	X7R	3,000V	10000pF	±10%	2.54	478-5922-1-ND ***NEW!***	18.72	156.00	520.00	478-5922-2-ND ***NEW!***	1,000	749.00	2225HC103KAZ1A
	X7R	3,000V	.015µF	±10%	2.54	478-5920-1-ND ***NEW!***	28.08	234.00	780.00	478-5920-2-ND ***NEW!***	1,000	1123.00	2225HC153KAZ1A
	X7R	2,500V	10000pF	±10%	2.54	478-4612-1-ND	35.10	292.50	975.00	478-4612-2-ND	1,000	1404.00	2225WC103KAZ1A
	X7R	2,000V	.033µF	±10%	2.54	478-5923-1-ND ***NEW!***	29.56	246.36	821.20	478-5923-2-ND ***NEW!***	1,000	1183.00	2225GC333KAZ1A
	X7R	1,500V	.068µF	±10%	2.54	478-5918-1-ND ***NEW!***	25.10	209.16	697.20	478-5918-2-ND ***NEW!***	1,000	1004.00	2225SC683KAZ1A
	X7R	1,000V	.10µF	±10%	2.54	478-4666-1-ND	85.80	507.00	1462.50	478-4666-2-ND	1,000	1404.00	2225AC104KAZ1A
	X7R	630V	.10µF	±10%	2.54	478-4667-1-ND	89.10	526.50	1518.75	478-4667-2-ND	2,000	1458.00/M	2225CC104KAZ1A

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Automotive Grade Multilayer Ceramic Chip Capacitors

Specifications: AEC-Q200 qualified

Size Code	Dimensions - mm		
	L	W	t
0603	1.60 ±0.15	0.81 ±0.15	0.35 ±0.15
0805	2.01 ±0.20	1.25 ±0.20	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.50 ±0.25

Size Code	Dimensions - mm		
	L	W	t
1210	3.20 ±0.20	2.50 ±0.20	0.50 ±0.25
2220	5.70 ±0.40	5.00 ±0.040	0.64 ±0.39

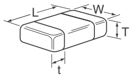

Size Code	Type	WV DC	Capacitance	Dim. T Max. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0603	X7R	50V	.10µF	0.90	478-5309-1-ND	4.95	29.25	84.38	478-5309-2-ND	4,000	81.00/M	06035C104K4T2A
	X8L	50V	0.1µF	0.90	478-6103-1-ND ***NEW!***	7.39	43.68	126.00	478-6103-2-ND ***NEW!***	4,000	121.00/M	06035L104K4T2A
	X8R	50V	1000pF	0.90	478-3600-1-ND	3.08	18.20	52.50	478-3600-2-ND	4,000	38.00/M	06035F102K4T2A
	X8R	50V	3300pF	0.90	478-3601-1-ND	3.08	18.20	52.50	478-3601-2-ND	4,000	38.00/M	06035F332K4T2A
	X8R	50V	4700pF	0.90	478-3602-1-ND	3.08	18.20	52.50	478-3602-2-ND	4,000	38.00/M	06035F472K4T2A
	X8R	50V	10000pF	0.90	478-3603-1-ND	2.09	12.35	35.63	478-3603-2-ND	4,000	25.00/M	06035F103K4T2A
	X8R	50V	22000pF	0.90	478-3604-1-ND	3.41	20.15	58.13	478-3604-2-ND	4,000	56.00/M	06035F223K4T2A
	X8R	50V	33000pF	0.90	478-3605-1-ND	4.51	26.65	76.88	478-3605-2-ND	4,000	56.00/M	06035F333K4T2A
	X8R	50V	47000pF	0.90	478-3606-1-ND	4.51	26.65	76.88	478-3606-2-ND	4,000	56.00/M	06035F473K4T2A
	X8R	25V	68000pF	0.90	478-3607-1-ND	5.72	33.80	97.50	478-3607-2-ND	4,000	70.00/M	06033F683K4T2A
0805	C0G (NP0)	100V	1000pF	0.94	478-6036-1-ND ***NEW!***	3.52	20.80	60.00	478-6036-2-ND ***NEW!***	4,000	58.00/M	08051A102J4T2A
	X7R	100V	10000pF	0.94	478-5310-1-ND	2.54	15.02	43.31	478-5310-2-ND	4,000	42.00/M	08051C103K4T2A
	X7R	100V	.10µF	0.94	478-4525-1-ND	4.18	24.70	71.25	478-4525-2-ND	2,000	68.00/M	08051C104K4T2A
	X7R	50V	.10µF	0.94	478-5311-1-ND	3.96	23.40	67.50	478-5311-2-ND	4,000	65.00/M	08055C104K4T2A
	X7R	50V	.10µF	0.94	478-6048-1-ND ***NEW!***	2.75	16.25	46.88	478-6048-2-ND ***NEW!***	4,000	45.00/M	08055C104K4Z2A
	X7R	50V	.47µF	1.40	478-4526-1-ND	7.48	44.20	127.50	478-4526-2-ND	2,000	122.00/M	08055C474K4T2A
	X7R	25V	1.0µF	1.40	478-4527-1-ND	26.84	158.60	457.50	478-4527-2-ND	2,000	439.00/M	08053C105K4T2A
	X8L	100V	.033µF	1.40	478-6104-1-ND ***NEW!***	8.62	50.96	147.00	478-6104-2-ND ***NEW!***	4,000	141.00/M	08051L333K4T2A
	X8L	50V	.22µF	1.40	478-6106-1-ND ***NEW!***	18.48	109.20	315.00	478-6106-2-ND ***NEW!***	2,000	302.00/M	08055L224K4T2A
	X8L	25V	.33µF	1.40	478-6105-1-ND ***NEW!***	17.25	101.92	294.00	478-6105-2-ND ***NEW!***	4,000	282.00/M	08053L334K4T2A
	X8R	50V	1000pF	0.94	478-3608-1-ND	3.30	19.50	56.25	478-3608-2-ND	4,000	41.00/M	08055F102K4T2A
	X8R	50V	2200pF	0.94	478-3615-1-ND	5.06	29.90	86.25	478-3615-2-ND	4,000	63.00/M	08055F222K4T2A
	X8R	50V	10000pF	0.94	478-3609-1-ND	3.30	19.50	56.25	478-3609-2-ND	4,000	41.00/M	08055F103K4T2A
	X8R	50V	22000pF	0.94	478-3610-1-ND	5.06	29.90	86.25	478-3610-2-ND	4,000	63.00/M	08055F223K4T2A
	X8R	50V	33000pF	0.94	478-3611-1-ND	5.06	29.90	86.25	478-3611-2-ND	4,000	63.00/M	08055F333K4T2A
	X8R	50V	47000pF	0.94	478-3612-1-ND	5.06	29.90	86.25	478-3612-2-ND	4,000	63.00/M	08055F473K4T2A
	X8R	50V	68000pF	1.40	478-3613-1-ND	5.06	29.90	86.25	478-3613-2-ND	4,000	63.00/M	08055F683K4T2A
	X8R	50V	.10µF	1.40	478-3614-1-ND	6.16	36.40	105.00	478-3614-2-ND	2,000	76.00/M	08055F104K4T2A
1206	X7R	100V	10000pF	0.94	478-5413-1-ND	1.43	8.45	24.38	478-5413-2-ND	4,000	23.00/M	12061C103K4T2A
	X7R	100V	.10µF	1.40	478-5312-1-ND	4.40	26.00	75.00	478-5312-2-ND	2,000	72.00/M	12061C104K4T2A
	X7R	50V	.33µF	1.52	478-5313-1-ND	5.52	32.63	94.13	478-5313-2-ND	2,000	90.00/M	12065C334K4T2A
	X7R	25V	2.2µF	1.78	478-4530-1-ND	13.20	78.00	225.00	478-4530-2-ND	2,000	216.00/M	12063C225K4Z2A
	X8L	100V	.10µF	1.27	478-6107-1-ND ***NEW!***	20.35	120.25	346.88	478-6107-2-ND ***NEW!***	2,000	333.00/M	12061L104K4T2A
	X8L	50V	.47µF	1.52	478-6108-1-ND ***NEW!***	24.64	145.60	420.00	478-6108-2-ND ***NEW!***	2,000	403.00/M	12065L474K4T2A
	X8R	50V	10000pF	0.94	478-3616-1-ND	5.06	29.90	86.25	478-3616-2-ND	4,000	63.00/M	12065F103K4T2A
	X8R	50V	47000pF	0.94	478-3617-1-ND	5.06	29.90	86.25	478-3617-2-ND	4,000	63.00/M	12065F473K4T2A
	X8R	50V	.10µF	1.27	478-3618-1-ND	4.40	26.00	75.00	478-3618-2-ND	2,000	54.00/M	12065F104K4T2A
	X8R	50V	.22µF	1.27	478-3619-1-ND	6.93	40.95	118.13	478-3619-2-ND	2,000	85.00/M	12065F224K4T2A
	X8R	50V	.33µF	1.27	478-3620-1-ND	14.30	84.50	243.75	478-3620-2-ND	2,000	176.00/M	12065F334K4T2A
	X8R	25V	.47µF	1.27	478-3621-1-ND	11.00	65.00	187.50	478-3621-2-ND	2,000	135.00/M	12063F474K4T2A
1210	X7R	100V	1.0µF	2.79	478-5314-1-ND	24.48	144.63	417.19	478-5314-2-ND	1,000	401.00	12101C105K4T2A
2220	X7R	50V	10µF	2.79	478-4528-1-ND	105.60	624.00	—	478-4528-2-ND	500	864.00	22205C106K4Z2A

NEW! UQ Series Hi-Q Ultra Low ESR MLC's

Features:
- Ultra-Low ESR • Hi-Q • High self resonance

Applications:
- RF power amplifiers • Low noise amplifiers • Filter networks • MRI systems

Size Code	Dimensions - mm			
	L	W	T - Max.	t
0605	1.40	1.40	1.45	.254
1210	2.79	2.79	2.59	.381

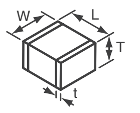

Size Code	WV DC	Cap. (pF)	Toler-ance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	T&R Pricing† 1,000	AVX Part No.
0605	150V	4.7	±.1pF	478-5916-1-ND	93.50	552.50	1593.75	1530.00	UQCAEA4R7BATME\1K
	150V	6.8	±.1pF	478-5915-1-ND	110.00	650.00	1875.00	1800.00	UQCAEA6R8BATME\1K
	150V	100	±5%	478-5907-1-ND	56.10	331.50	956.25	918.00	UQCAEA101JATME\1K
1210	150V	1000	±5%	478-5912-1-ND	133.10	786.50	2268.75	2178.00	UQCBEA102JATME\1K
	500V	4.7	±.1pF	478-5914-1-ND	133.10	786.50	2268.75	2178.00	UQCB7A4R7BATME\1K
	500V	18	±5%	478-5911-1-ND	58.30	344.50	993.75	954.00	UQCB7A180JATME\1K
	500V	22	±5%	478-5910-1-ND	58.30	344.50	993.75	954.00	UQCB7A220JATME\1K
	500V	43	±5%	478-5909-1-ND	63.80	377.00	1087.50	1044.00	UQCB7A430JATME\1K
	500V	56	±5%	478-5908-1-ND	63.80	377.00	1087.50	1044.00	UQCB7A560JATME\1K
	500V	100	±5%	478-5913-1-ND	63.80	377.00	1087.50	1044.00	UQCB7A101JATME\1K

† For Tape and Reel part number, change 1-ND to 2-ND.

Hi-Q® MLC Capacitors

The HQ Series capacitors from AVX are a Hi-Q high RF power, surface mount MLC capacitor and are characterized with ultra-low ESR and dissipation factor at high frequencies. They are designed to handle high power and high voltage levels for applications in RF power amplifiers, inductive heating, high magnetic field environments (MRI coils), medical, and industrial electronics.

Specifications: • Dissipation Factor @ 25°C: 0.1% Maximum (measured with 1Vms @ 1KHz {1MHz for ≤1000pF}) • Dielectric Strength: Minimum 120% of rated WVDC

Size Code	Dimensions - mm			
	L	W	T - Max.	t
HQCC	5.84	6.35	3.3	0.64
HQCE	9.4	9.9	3.3	0.64

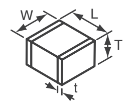

Size Code	WV DC	Cap. (pF)	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
HQCC	3,000V	3.3	±0.50pF	478-4551-ND	7.00	49.00	420.00	HQCCHA3R3DAT9A
	3,000V	4.7	±0.25pF	478-4552-ND	7.00	49.00	420.00	HQCCHA4R7CA19A
	3,000V	6.8	±0.25pF	478-4555-ND	8.45	59.15	507.00	HQCCHA6R8CAT9A
	3,000V	12	2%	478-4540-ND	8.45	59.15	507.00	HQCCHA120GAT9A
	3,000V	15	2%	478-4543-ND	8.45	59.15	507.00	HQCCHA150GA19A
	3,000V	18	2%	478-4545-ND	8.45	59.15	507.00	HQCCHA180GA19A
	3,000V	20	2%	478-4546-ND	8.45	59.15	507.00	HQCCHA200GA19A
	3,000V	22	2%	478-4547-ND	8.45	59.15	507.00	HQCCHA220GAT9A
	3,000V	39	2%	478-4550-ND	8.45	59.15	507.00	HQCCHA390GAT9A
	3,000V	56	2%	478-4553-ND	8.45	59.15	507.00	HQCCHA560GAT9A
	3,000V	68	2%	478-4554-ND	8.45	59.15	507.00	HQCCHA680GAT9A
	3,000V	82	10%	478-4556-ND	9.13	63.88	547.50	HQCCHA820KA19A
	3,000V	120	2%	478-4541-ND	8.45	59.15	507.00	HQCCHA121GAT9A
	3,000V	130	2%	478-4542-ND	8.45	59.15	507.00	HQCCHA131GA19A
	3,000V	150	5%	478-4544-ND	8.45	59.15	507.00	HQCCHA151JA19A
	3,000V	220	2%	478-4548-ND	8.45	59.15	507.00	HQCCHA221GAT9A
	3,000V	270	2%	478-4549-ND	8.45	59.15	507.00	HQCCHA271GAT9A
	2,500V	330	2%	478-4559-ND	9.13	63.88	547.50	HQCCWA331GAT9A
	2,500V	390	2%	478-4560-ND	9.13	63.88	547.50	HQCCWA391GAT9A

Size Code	WV DC	Cap. (pF)	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
HQCC	1,500V	820	2%	478-4558-ND	9.13	63.88	547.50	HQCCSA821GAT9A
	1,500V	1000	10%	478-4557-ND	9.13	63.88	547.50	HQCCSA102KAT9A
HQCE	7,200V	18	5%	478-4572-ND	18.13	126.88	1087.50	HQCEMA180JAT9A
	7,200V	22	5%	478-4573-ND	18.13	126.88	1087.50	HQCEMA220JAT9A
	7,200V	27	5%	478-4574-ND	18.13	126.88	1087.50	HQCEMA270JAT9A
	7,200V	33	5%	478-4575-ND	18.13	126.88	1087.50	HQCEMA330JAT9A
	7,200V	43	1%	478-4576-ND	18.13	126.88	1087.50	HQCEMA430FAT9A
	7,200V	68	1%	478-4577-ND	18.13	126.88	1087.50	HQCEMA680FAT9A
	7,200V	75	1%	478-4578-ND	18.13	126.88	1087.50	HQCEMA750FAT9A
	7,200V	100	5%	478-4570-ND	18.13	126.88	1087.50	HQCEMA101JAT9A
	5,000V	150	5%	478-4569-ND	15.30	107.10	918.00	HQCEKA151JAT9A
	4,000V	220	5%	478-4567-ND	15.30	107.10	918.00	HQCEJA221JAT9A
	4,000V	390	5%	478-4568-ND	15.30	107.10	918.00	HQCEJA391JAT9A
	3,000V	560	5%	478-4565-ND	15.30	107.10	918.00	HQCEHA561JAT9A
	3,000V	680	5%	478-4566-ND	15.30	107.10	918.00	HQCEHA681JAT9A
	2,500V	820	5%	478-4579-ND	18.13	126.88	1087.50	HQCEWA821JAT9A
	2,000V	1200	5%	478-4562-ND	13.18	92.23	790.50	HQCEGA122JAT9A
	2,000V	1800	10%	478-4563-ND	13.18	92.23	790.50	HQCEGA182KAT9A
	630V	6800	10%	478-4561-ND	13.18	92.23	790.50	HQCECA682KAT9A

AVX TurboCap™ — High-CV SMPS Capacitors

The TurboCap, MLC capacitors from AVX are characterized with very high capacitance in a small volume. By vertical stacking of the ceramic elements, the footprint required for mounting the capacitors is greatly reduced. TurboCaps are ideally suited as filters in the input and output stages of switch mode power supplies (SMPS). With their ultra-low ESR, these capacitors are designed to handle high ripple current at high frequencies and high power levels. The DIP leads in either thru-hole or surface mount configurations offer superior stress relief to the ceramic elements. The leads effectively decouple the parts from the board and minimize thermally or mechanically induced stresses encountered during assembly, temperature cycling or other environmental conditions. **Specifications:** Dissipation Factor: 2.5% maximum @ 25°C, 1.0 ±0.2Vrms (open circuit voltage) @ 1kHz

Fig. 1

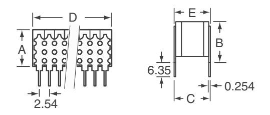

Fig. 2

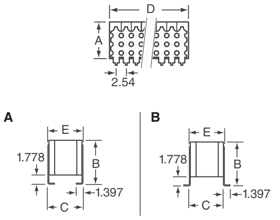

Fig.	WV DC	Cap. (µF)	Type	Dimensions - mm A	B	C	D	E	No. of Leads Per Side	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1	50V	27	Thru-Hole	5.59	7.24	6.35	8.26	7.62	3	478-5074-ND	15.62	136.68	1093.40	ST205C276MAN03
	50V	47	Thru-Hole	5.59	7.24	6.35	13.34	7.62	5	478-5071-ND	21.76	190.40	1523.20	ST205C476MAN05
	50V	100	Thru-Hole	5.59	7.24	6.35	26.04	7.62	10	478-5068-ND	40.60	355.25	2842.00	ST205C107MAN10
2A	50V	27	SMD	5.59	7.24	6.35	8.26	7.62	3	478-5072-ND	15.62	136.68	1093.40	ST205C276MAJ03
	50V	47	SMD	5.59	7.24	6.35	13.34	7.62	5	478-5069-ND	21.76	190.40	1523.20	ST205C476MAJ05
	50V	100	SMD	5.59	7.24	6.35	26.04	7.62	10	478-5066-ND	40.60	355.25	2842.00	ST205C107MAJ10
2B	100V	12	SMD	3.56	5.89	5.08	14.61	6.35	5	478-6109-ND ***NEW!***	10.36	90.65	725.20	ST121C126MAJ05
	50V	27	SMD	3.56	5.89	5.08	14.61	6.35	5	478-6111-ND ***NEW!***	21.34	186.73	1493.80	ST125C276MAJ05
	100V	22	SMD	3.56	5.89	5.08	26.67	6.35	10	478-6112-ND ***NEW!***	12.38	108.33	866.60	ST121C226MAJ10
	50V	50	SMD	3.56	5.89	5.08	26.67	6.35	10	478-6110-ND ***NEW!***	42.86	375.03	3000.20	ST125C506MAJ10
	100V	14	SMD	5.59	7.62	6.35	8.26	7.62	3	478-6113-ND ***NEW!***	13.94	121.98	975.80	ST201C146MAJ03
	100V	22	SMD	5.59	7.62	6.35	13.34	7.62	5	478-6118-ND ***NEW!***	18.46	161.53	1292.20	ST201C226MAJ05
	100V	47	SMD	5.59	7.62	6.35	26.04	7.62	10	478-6114-ND ***NEW!***	29.78	260.58	2084.60	ST201C476MAJ10
	25V	68	SMD	5.59	7.62	6.35	8.26	7.62	3	478-6117-ND ***NEW!***	13.40	117.25	938.00	ST203C686MAJ03
	25V	100	SMD	5.59	7.62	6.35	13.34	7.62	5	478-6116-ND ***NEW!***	14.52	127.05	1016.40	ST203C107MAJ05
	25V	220	SMD	5.59	7.62	6.35	26.04	7.62	10	478-6115-ND ***NEW!***	21.84	191.10	1528.80	ST203C227MAJ10
	50V	27	SMD	5.59	7.24	6.35	8.26	7.62	3	478-5073-ND	15.62	136.68	1093.40	ST205C276MAL03
	50V	47	SMD	5.59	7.24	6.35	13.34	7.62	5	478-5070-ND	21.76	190.40	1523.20	ST205C476MAL05
	50V	100	SMD	5.59	7.24	6.35	26.04	7.62	10	478-5067-ND	40.60	355.25	2842.00	ST205C107MAL10

SMPS Stacked MLC Capacitors

SMX Series for High Temperature Applications up to 200°C

SMX-style capacitors, stacked Switch Mode Power Supply Capacitors (SMPS) utilizing Multilayer Ceramic (MLCC) construction, are ideally suited for high temperature applications up to 200°C. This product is intended for downhole oil exploration, including logging while drilling, geophysical probes, as well as space and aerospace electronics. The high temperature solder utilized in the construction of SMX-style parts assures reliable operation in harsh environments. The wide product offering provides designers a solution for high capacitance value and high voltage capacitors rated at 200°C. The SMX-style capacitors are ideally suited for applications as DC filters in high power, high frequency motor drives, high pulsed-current circuitry, as well as low power electronics. SMX-style SMPS capacitors are characterized with excellent performance in comparison to wet tantalum products.

The benefits of SMX-product over wet tantalum capacitors include:

- Much lower ESR and lower losses
- Excellent capacitance retention with frequency
- Excellent high frequency performance
- Low DC leakage current
- Much higher current handling capabilities

Size Code	Dimensions – mm B	C	No. of Leads per Side
SMX4	10.2	11.2	4
SMX5	6.35	7.62	3

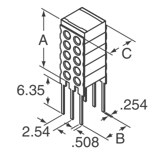

Size Code	Capacitance	WV DC	Type	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
SMX4	10µF	25V	X7R	9.14	478-5589-ND	107.44	94.02	80.59	SMX43C106KAN360
SMX4	15µF	25V	X7R	16.5	478-5590-ND	152.13	133.12	114.10	SMX43C156KAN650
SMX4	5.0µF	50V	X7R	9.14	478-5591-ND	179.01	156.64	134.27	SMX45C505KAN360
SMX5	2.0µF	100V	X7R	16.5	478-5592-ND	85.05	74.43	63.80	SMX51C205KAN650
SMX5	1,000pF	200V	C0G	3.05	478-5593-ND	40.79	35.69	30.60	SMX52A102KAN120
SMX5	10,000pF	200V	C0G	3.05	478-5594-ND	43.33	37.92	32.50	SMX52A103KAN120
SMX5	.10µF	25V	C0G	6.10	478-5595-ND	62.41	54.62	46.81	SMX53A104KAN240
SMX5	1.0µF	50V	X7R	6.10	478-5596-ND	68.05	59.55	51.04	SMX55C105KAN240

NEW! RM Series SMPS Stacked MLC Capacitors

RoHS COMPLIANT

Features: • Ideal for telecom power, industrial power, DC/DC converters, hybrid automotive applications or any customer needing a stacked capacitor with RoHS offering • Extremely high cap values with very low ESR ratings allow the part to be used with high current/ripple applications • Ideal for high shock and vibration applications

Fig. 1

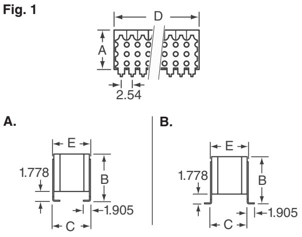

Fig.	Cap. (µF)	WV DC	Type	Dimensions - mm A	B	C	D	E	No. of Leads Per Side	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1A	2.2	200V	SMD	6.1	8.132	10.2	10.2	11.2	4	478-6120-ND	24.40	213.50	1830.00	RM042C225KAJ240
	15	50V	SMD	6.1	8.132	10.2	10.2	11.2	4	478-6121-ND	25.92	226.80	1944.00	RM045C156KAJ240
	30	50V	SMD	12.2	14.232	10.2	10.2	11.2	4	478-6122-ND	40.20	351.75	3015.00	RM045C306KAJ480
	7.5	50V	SMD	3.1	5.132	10.2	10.2	11.2	4	478-6123-ND	17.68	154.70	1326.00	RM045C755KAJ120
	1.0	50V	SMD	3.1	5.132	6.35	6.35	7.62	3	478-6124-ND	16.14	141.23	1210.50	RM055C105KAJ120
	1.5	50V	SMD	3.1	5.132	6.35	6.35	7.62	3	478-6125-ND	16.14	141.23	1210.50	RM055C155KAJ120
	4.7	50V	SMD	6.1	8.132	6.35	6.35	7.62	3	478-6126-ND	22.18	194.08	1663.50	RM055C475KAJ240
1B	8.2	50V	SMD	9.2	11.232	6.35	6.35	7.62	3	478-6127-ND	27.04	236.60	2028.00	RM055C825KAL360

SQ Series RF/Microwave Multilayer Chip Capacitors

Features: • High current carrying capabilities • High Q-Factor • Very low ESR • Very high series resonance • Excellent stability under stresses of changing voltage, frequency, time and temperature
Specifications: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient: (M)+90 ±20ppm/°C (A)0 ±30ppm/ °C • Dielectric withstanding voltage: 2.5 x rated voltage (1.5 x rated voltage for 500 volt rated parts)

Size Code	Dimensions — mm L	W	T (Min. / Max.)
0603	.063 ±.006	.032 ±.006	.030 Max.
0605	.055+.015-.010	.055 ±.015	.020 / .057
0805	.079 ±.008	.049 ±.008	.045 Max.
1210	.110+.020-.010	.110 ±.010	.030 / .102

Digi-Reel®

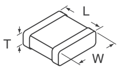

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0603	250V	0.2pF	±.10pF	478-3482-1-ND◆	4.42	29.25	130.00	478-3482-2-ND◆	4,000	199.00/M	SQCSVA0R2BAT1A
	250V	0.4pF	±.10pF	478-3483-1-ND◆	4.42	29.25	130.00	478-3483-2-ND◆	4,000	199.00/M	SQCSVA0R4BAT1A
	250V	0.6pF	±.10pF	478-3484-1-ND◆	4.76	31.50	140.00	478-3484-2-ND◆	4,000	214.00/M	SQCSVA0R6BAT1A
	250V	0.8pF	±.10pF	478-3485-1-ND◆	5.10	33.75	150.00	478-3485-2-ND◆	4,000	230.00/M	SQCSVA0R8BAT1A
	250V	1.0pF	±.10pF	478-3486-1-ND◆	5.10	33.75	150.00	478-3486-2-ND◆	4,000	230.00/M	SQCSVA1R0BAT1A
	250V	1.1pF	±.10pF	478-3487-1-ND◆	5.44	36.00	160.00	478-3487-2-ND◆	4,000	245.00/M	SQCSVA1R1BAT1A
	250V	1.2pF	±.10pF	478-3488-1-ND◆	5.44	36.00	160.00	478-3488-2-ND◆	4,000	245.00/M	SQCSVA1R2BAT1A
	250V	1.5pF	±.10pF	478-3489-1-ND◆	5.44	36.00	160.00	478-3489-2-ND◆	4,000	245.00/M	SQCSVA1R5BAT1A
	250V	1.8pF	±.10pF	478-3490-1-ND◆	6.46	42.75	190.00	478-3490-2-ND◆	4,000	291.00/M	SQCSVA1R8BAT1A
	250V	2.0pF	±.10pF	478-3491-1-ND◆	6.46	42.75	190.00	478-3491-2-ND◆	4,000	291.00/M	SQCSVA2R0BAT1A
	250V	2.2pF	±.10pF	478-3492-1-ND◆	5.44	36.00	160.00	478-3492-2-ND◆	4,000	291.00/M	SQCSVA2R2BAT1A
	250V	2.4pF	±.10pF	478-3493-1-ND◆	6.46	42.75	190.00	478-3493-2-ND◆	4,000	291.00/M	SQCSVA2R4BAT1A
	250V	2.7pF	±.10pF	478-3494-1-ND◆	6.46	42.75	190.00	478-3494-2-ND◆	4,000	291.00/M	SQCSVA2R7BAT1A
	250V	3.0pF	±.10pF	478-3495-1-ND◆	6.46	42.75	190.00	478-3495-2-ND◆	4,000	291.00/M	SQCSVA3R0BAT1A
	250V	3.3pF	±.10pF	478-3496-1-ND◆	7.48	49.50	220.00	478-3496-2-ND◆	4,000	337.00/M	SQCSVA3R3BAT1A
	250V	3.9pF	±.25pF	478-3497-1-ND◆	2.58	17.10	76.00	478-3497-2-ND◆	4,000	116.00/M	SQCSVA3R9CAT1A
	250V	4.7pF	±.25pF	478-3498-1-ND◆	4.76	31.50	140.00	478-3498-2-ND◆	4,000	214.00/M	SQCSVA4R7CAT1A
	250V	5.6pF	±.25pF	478-3499-1-ND◆	5.78	38.25	170.00	478-3499-2-ND◆	4,000	260.00/M	SQCSVA5R6CAT1A
	250V	6.8pF	±.25pF	478-3500-1-ND◆	9.18	60.75	270.00	478-3500-2-ND◆	4,000	413.00/M	SQCSVA6R8CAT1A
	250V	8.2pF	±.25pF	478-3501-1-ND◆	9.18	60.75	270.00	478-3501-2-ND◆	4,000	413.00/M	SQCSVA8R2CAT1A
	250V	10pF	±5%	478-3502-1-ND◆	5.44	36.00	160.00	478-3502-2-ND◆	4,000	245.00/M	SQCSVA100JAT1A

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX SQ Series RF/Microwave Multilayer Chip Capacitors *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Qty.	Pricing	
0603	250V	12pF	±5%	478-3503-1-ND◆	5.44	36.00	160.00	478-3503-2-ND◆	4,000	245.00/M	SQCSVA120JAT1A
	250V	15pF	±5%	478-3504-1-ND◆	5.44	36.00	160.00	478-3504-2-ND◆	4,000	245.00/M	SQCSVA150JAT1A
	250V	18pF	±5%	478-3505-1-ND◆	5.44	36.00	160.00	478-3505-2-ND◆	4,000	245.00/M	SQCSVA180JAT1A
	250V	20pF	±5%	478-3506-1-ND◆	5.44	36.00	160.00	478-3506-2-ND◆	4,000	245.00/M	SQCSVA200JAT1A
	250V	22pF	±5%	478-3507-1-ND◆	5.44	36.00	160.00	478-3507-2-ND◆	4,000	245.00/M	SQCSVA220JAT1A
	250V	24pF	±5%	478-3508-1-ND◆	5.44	36.00	160.00	478-3508-2-ND◆	4,000	245.00/M	SQCSVA240JAT1A
	250V	27pF	±5%	478-3509-1-ND◆	5.44	36.00	160.00	478-3509-2-ND◆	4,000	245.00/M	SQCSVA270JAT1A
	250V	30pF	±5%	478-3510-1-ND◆	5.44	36.00	160.00	478-3510-2-ND◆	4,000	245.00/M	SQCSVA300JAT1A
	250V	33pF	±5%	478-3511-1-ND◆	6.46	42.75	190.00	478-3511-2-ND◆	4,000	291.00/M	SQCSVA330JAT1A
	250V	39pF	±5%	478-3512-1-ND◆	6.46	42.75	190.00	478-3512-2-ND◆	4,000	291.00/M	SQCSVA390JAT1A
	250V	47pF	±5%	478-3513-1-ND◆	6.12	40.50	180.00	478-3513-2-ND◆	4,000	275.00/M	SQCSVA470JAT1A
	250V	56pF	±5%	478-3514-1-ND◆	6.46	42.75	190.00	478-3514-2-ND◆	4,000	291.00/M	SQCSVA560JAT1A
	250V	68pF	±5%	478-3515-1-ND◆	6.46	42.75	161.50	478-3515-2-ND◆	4,000	291.00/M	SQCSVA680JAT1A
	250V	82pF	±5%	478-3516-1-ND◆	6.46	42.75	190.00	478-3516-2-ND◆	4,000	291.00/M	SQCSVA820JAT1A
	250V	100pF	±5%	478-3517-1-ND◆	7.48	49.50	220.00	478-3517-2-ND◆	4,000	337.00/M	SQCSVA101JAT1A
0605	150V	.10pF	±.10pF	478-2667-1-ND†	20.90	190.00	855.00	478-2667-2-ND	2,000	1140.00/M	SQCAEM0R1BAJME
	150V	.20pF	±.10pF	478-2668-1-ND†	20.90	190.00	855.00	478-2668-2-ND	2,000	1140.00/M	SQCAEM0R2BAJME
	150V	.80pF	±.10pF	478-2674-1-ND†	20.90	190.00	855.00	478-2674-2-ND	2,000	1140.00/M	SQCAEM0R8BAJME
	150V	1.0pF	±.10pF	478-2676-1-ND†	21.45	195.00	877.50	478-2676-2-ND	2,000	1170.00/M	SQCAEM1R0BAJME
	150V	1.1pF	±.10pF	478-2677-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM1R1BAJME
	150V	1.2pF	±.10pF	478-2678-1-ND†	21.45	195.00	877.50	478-2678-2-ND	2,000	1170.00/M	SQCAEM1R2BAJME
	150V	1.5pF	±.10pF	478-2679-1-ND†	21.45	195.00	877.50	478-2679-2-ND	2,000	1170.00/M	SQCAEM1R5BAJME
	150V	1.6pF	±.25pF	478-2680-1-ND†	11.00	100.00	450.00	—	—	—	SQCAEM1R6CAJME
	150V	2.0pF	±.25pF	478-2682-1-ND†	11.00	100.00	450.00	478-2682-2-ND	2,000	600.00/M	SQCAEM2R0CAJME
	150V	2.2pF	±.10pF	478-2683-1-ND††	13.48	122.50	551.25	—	—	—	SQCAEM2R2BAJME
	150V	2.4pF	±.10pF	478-2684-1-ND††	21.45	195.00	877.50	478-2684-2-ND	2,000	1170.00/M	SQCAEM2R4BAJME
	150V	3.0pF	±.10pF	478-2686-1-ND††	22.28	202.50	911.25	478-2686-2-ND	2,000	1215.00/M	SQCAEM3R0BAJME
	150V	3.9pF	±.25pF	478-2688-1-ND††	11.00	100.00	450.00	—	—	—	SQCAEM3R9CAJME
	150V	5.6pF	±.25pF	478-2690-1-ND††	11.00	100.00	450.00	478-2690-2-ND	2,000	600.00/M	SQCAEM5R6CAJME
	150V	6.8pF	±.25pF	478-2691-1-ND††	16.78	152.50	686.25	478-2691-2-ND	2,000	915.00/M	SQCAEM6R8CAJME
	150V	8.2pF	±.25pF	478-2692-1-ND††	16.78	152.50	686.25	478-2692-2-ND	2,000	915.00/M	SQCAEM8R2CAJME
	150V	10pF	±5%	478-2693-1-ND††	13.75	125.00	562.50	478-2693-2-ND	2,000	750.00/M	SQCAEM100JAJME
	150V	15pF	±5%	478-2695-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM150JAJME
	150V	22pF	±5%	478-2698-1-ND††	13.75	125.00	562.50	478-2698-2-ND	2,000	750.00/M	SQCAEM220JAJME
	150V	24pF	±5%	478-2699-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM240JAJME
	150V	27pF	±5%	478-2700-1-ND††	13.75	125.00	562.50	478-2700-2-ND	2,000	750.00/M	SQCAEM270JAJME
	150V	33pF	±5%	478-2702-1-ND††	13.75	125.00	562.50	478-2702-2-ND	2,000	750.00/M	SQCAEM330JAJME
	150V	56pF	±5%	478-2705-1-ND††	13.75	125.00	562.50	478-2705-2-ND	2,000	750.00/M	SQCAEM560JAJME
	150V	68pF	±5%	478-2706-1-ND††	13.75	125.00	562.50	478-2706-2-ND	2,000	750.00/M	SQCAEM680JAJME
	150V	82pF	±5%	478-2707-1-ND††	13.75	125.00	562.50	478-2707-2-ND	2,000	750.00/M	SQCAEM820JAJME
	150V	100pF	±5%	478-2708-1-ND††	13.75	125.00	562.50	478-2708-2-ND	2,000	750.00/M	SQCAEM101JAJME
	250V	.50pF	±0.1pF	478-5831-1-ND◆ ***NEW!***	20.90	190.00	—	478-5831-2-ND◆ ***NEW!***	500	570.00	SQCAVM0R5BATME/500
	250V	1.0pF	±0.1pF	478-5829-1-ND◆ ***NEW!***	21.45	195.00	—	478-5829-2-ND◆ ***NEW!***	500	585.00	SQCAVM1R0BATME/500
	250V	2.4pF	±0.1pF	478-5832-1-ND◆ ***NEW!***	20.90	190.00	—	478-5832-2-ND◆ ***NEW!***	500	570.00	SQCAVM2R4BATME/500
	250V	4.7pF	±0.1pF	478-5830-1-ND◆ ***NEW!***	22.28	202.50	—	478-5830-2-ND◆ ***NEW!***	500	607.50	SQCAVM4R7BATME/500
	250V	8.2pF	±0.1pF	478-5833-1-ND◆ ***NEW!***	25.85	235.00	—	478-5833-2-ND◆ ***NEW!***	500	705.00	SQCAVM8R2BATME/500
	250V	10pF	±5%	478-5834-1-ND◆ ***NEW!***	8.53	77.50	—	478-5834-2-ND◆ ***NEW!***	500	232.50	SQCAVM100JATME/500
	250V	27pF	±5%	478-5835-1-ND◆ ***NEW!***	8.80	80.00	—	478-5835-2-ND◆ ***NEW!***	500	240.00	SQCAVM270JATME/500
	250V	39pF	±5%	478-5836-1-ND◆ ***NEW!***	8.80	80.00	—	478-5836-2-ND◆ ***NEW!***	500	240.00	SQCAVM390JATME/500
	250V	47pF	±5%	478-5837-1-ND◆ ***NEW!***	9.35	85.00	—	478-5837-2-ND◆ ***NEW!***	500	255.00	SQCAVM470JATME/500
	250V	100pF	±5%	478-5838-1-ND◆ ***NEW!***	12.93	117.50	—	478-5838-2-ND◆ ***NEW!***	500	352.50	SQCAVM101JATME/500
0805	250V	1.0pF	±.10pF	478-4078-1-ND◆	19.80	117.00	337.50	478-4078-2-ND◆	4,000	324.00/M	SQCFVA1R0BATME
	250V	4.7pF	±.10pF	478-4079-1-ND◆	27.50	162.50	468.75	478-4079-2-ND◆	4,000	450.00/M	SQCFVA4R7BATME
	250V	10pF	±5%	478-4080-1-ND◆	20.90	123.50	356.25	478-4080-2-ND◆	4,000	342.00/M	SQCFVA100JATME
	250V	47pF	±5%	478-4081-1-ND◆	22.00	130.00	375.00	478-4081-2-ND◆	4,000	360.00/M	SQCFVA470JATME
	250V	240pF	±5%	478-4082-1-ND◆	31.79	187.85	541.88	478-4082-2-ND◆	4,000	520.00/M	SQCFVA241JATME
1210	500V	1.0pF	±.10pF	478-2621-1-ND•	29.15	265.00	1192.50	478-2621-2-ND	2,000	1590.00/M	SQCB7M1R0BAJME
	500V	1.2pF	±.10pF	478-2622-1-ND•	29.15	265.00	1192.50	478-2622-2-ND	2,000	1590.00/M	SQCB7M1R2BAJME
	500V	1.5pF	±.10pF	478-2623-1-ND•	29.15	265.00	1192.50	478-2623-2-ND	2,000	1590.00/M	SQCB7M1R5BAJME
	500V	1.8pF	±.10pF	478-2624-1-ND•	29.15	265.00	1192.50	478-2624-2-ND	2,000	1590.00/M	SQCB7M1R8BAJME
	500V	2.0pF	±.10pF	478-2625-1-ND•	29.15	265.00	1192.50	478-2625-2-ND	2,000	1590.00/M	SQCB7M2R0BAJME
	500V	2.2pF	±.10pF	478-2626-1-ND•	29.15	265.00	1192.50	478-2626-2-ND	2,000	1590.00/M	SQCB7M2R2BAJME
	500V	2.4pF	±.10pF	478-2627-1-ND•	29.15	265.00	1192.50	478-2627-2-ND	2,000	1590.00/M	SQCB7M2R4BAJME
	500V	2.7pF	±.10pF	478-2628-1-ND•	29.15	265.00	1192.50	478-2628-2-ND	2,000	1590.00/M	SQCB7M2R7BAJME
	500V	3.0pF	±.10pF	478-2629-1-ND•	30.25	275.00	1237.50	478-2629-2-ND	2,000	1650.00/M	SQCB7M3R0BAJME
	500V	3.3pF	±.10pF	478-2630-1-ND•	30.25	275.00	1237.50	478-2630-2-ND	2,000	1650.00/M	SQCB7M3R3BAJME
	500V	3.9pF	±.25pF	478-2631-1-ND•	13.48	122.50	551.25	478-2631-2-ND	2,000	735.00/M	SQCB7M3R9CAJME
	500V	4.7pF	±.25pF	478-2632-1-ND◆	13.48	122.50	551.25	478-2632-2-ND	2,000	735.00/M	SQCB7M4R7CAJME
	500V	5.6pF	±.25pF	478-2633-1-ND•	13.48	122.50	551.25	478-2633-2-ND	2,000	735.00/M	SQCB7M5R6CAJME
	500V	6.8pF	±.25pF	478-2634-1-ND•	15.68	142.50	641.25	478-2634-2-ND	2,000	855.00/M	SQCB7M6R8CAJME
	500V	8.2pF	±.25pF	478-2635-1-ND•	15.68	142.50	641.25	478-2635-2-ND	2,000	855.00/M	SQCB7M8R2CAJME
	500V	10pF	±5%	478-2636-1-ND•	12.10	110.00	495.00	478-2636-2-ND	2,000	660.00/M	SQCB7M100JAJME
	500V	12pF	±5%	478-2637-1-ND•	12.10	110.00	495.00	478-2637-2-ND	2,000	660.00/M	SQCB7M120JAJME
	500V	15pF	±5%	478-2638-1-ND•	12.10	110.00	495.00	478-2638-2-ND	2,000	660.00/M	SQCB7M150JAJME
	500V	18pF	±5%	478-2639-1-ND•	12.10	110.00	495.00	478-2639-2-ND	2,000	660.00/M	SQCB7M180JAJME
	500V	20pF	±5%	478-2640-1-ND•	12.10	110.00	495.00	478-2640-2-ND	2,000	660.00/M	SQCB7M200JAJME
	500V	22pF	±5%	478-2641-1-ND•	12.10	110.00	495.00	478-2641-2-ND	2,000	660.00/M	SQCB7M220JAJME
	500V	24pF	±5%	478-2642-1-ND•	12.10	110.00	495.00	478-2642-2-ND	2,000	660.00/M	SQCB7M240JAJME
	500V	27pF	±5%	478-2643-1-ND•	12.65	115.00	517.50	478-2643-2-ND	2,000	690.00/M	SQCB7M270JAJME
	500V	30pF	±5%	478-2644-1-ND•	12.65	115.00	517.50	478-2644-2-ND	2,000	690.00/M	SQCB7M300JAJME
	500V	33pF	±5%	478-2645-1-ND•	12.65	115.00	517.50	478-2645-2-ND	2,000	690.00/M	SQCB7M330JAJME
	500V	39pF	±5%	478-2646-1-ND•	12.65	115.00	517.50	478-2646-2-ND	2,000	690.00/M	SQCB7M390JAJME
	500V	47pF	±5%	478-2647-1-ND•	13.75	125.00	562.50	478-2647-2-ND	2,000	750.00/M	SQCB7M470JAJME
	500V	56pF	±5%	478-2648-1-ND•	13.75	125.00	562.50	478-2648-2-ND	2,000	750.00/M	SQCB7M560JAJME
	500V	68pF	±5%	478-2649-1-ND•	13.75	125.00	562.50	478-2649-2-ND	2,000	750.00/M	SQCB7M680JAJME
	500V	82pF	±5%	478-2650-1-ND•	13.75	125.00	562.50	478-2650-2-ND	2,000	750.00/M	SQCB7M820JAJME
	500V	100pF	±5%	478-2651-1-ND•	13.75	125.00	562.50	478-2651-2-ND	2,000	750.00/M	SQCB7M101JAJME
	300V	120pF	±5%	478-2652-1-ND•	13.75	125.00	562.50	478-2652-2-ND	2,000	750.00/M	SQCB9M121JAJME
	300V	150pF	±5%	478-2653-1-ND•	13.75	125.00	562.50	478-2653-2-ND	2,000	750.00/M	SQCB9M151JAJME
	300V	180pF	±5%	478-2654-1-ND•	13.75	125.00	562.50	478-2654-2-ND	2,000	750.00/M	SQCB9M181JAJME
	300V	200pF	±5%	478-2655-1-ND•	13.75	125.00	562.50	478-2655-2-ND	2,000	750.00/M	SQCB9M201JAJME
	200V	220pF	±5%	478-2656-1-ND•	13.75	125.00	562.50	478-2656-2-ND	2,000	750.00/M	SQCB2M221JAJME
	200V	270pF	±5%	478-2658-1-ND•	13.75	125.00	562.50	478-2658-2-ND	2,000	750.00/M	SQCB2M271JAJME
	200V	330pF	±5%	478-2660-1-ND•	17.60	160.00	720.00	478-2660-2-ND	2,000	960.00/M	SQCB2M331JAJME
	200V	390pF	±5%	478-2661-1-ND•	17.60	160.00	720.00	478-2661-2-ND	2,000	960.00/M	SQCB2M391JAJME
	200V	470pF	±5%	478-2662-1-ND•	17.60	160.00	720.00	478-2662-2-ND	2,000	960.00/M	SQCB2M471JAJME
	150V	560pF	±10%	478-2663-1-ND•	17.33	157.50	708.75	478-2663-2-ND	2,000	945.00/M	SQCBEM561KAJME
	150V	680pF	±10%	478-2664-1-ND•	17.33	157.50	708.75	478-2664-2-ND	1,000	945.00	SQCBEM681KAJME
	150V	820pF	±10%	478-2665-1-ND•	20.90	190.00	855.00	478-2665-2-ND	2,000	1140.00/M	SQCBEM821KAJME
	150V	1000pF	±10%	478-2666-1-ND•	23.38	212.50	956.25	478-2666-2-ND	2,000	1275.00/M	SQCBEM102KAJME

◆ ***RoHS Compliant***

SQ P90 Kits

• **478-2836-ND (**SQCB/KITSQ001)	10 each of values denoted (460 total pieces)	**$119.70**
† **478-2837-ND (**SQCA/KITSQ002)	10 each of values denoted (160 total pieces)	**$119.70**
†† **478-2838-ND (**SQCA/KITSQ003)	10 each of values denoted (260 total pieces)	**$119.70**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Accu-P® Series — Thin Film RF/Microwave
Multilayer Chip Capacitors

Features: • Low ESR • High Q • Very Low Capacitance Values • Very Tight Capacitance Tolerances • High RF Power Handling Capability • Hand Solderable
Specifications: • Operating Temperature: -55°C ~ 125°C • Insulation Resistance: ≥ 10^{11} Ω (≥ 10^{10} Ω for 0201 and 0402 size) • Dielectric Absorption: .01%

Size Code	Dimensions - Inch (mm)		
	L	W	T
0201	0.023 (0.60)	0.0128 (0.325)	0.009 (0.225)
0402	0.039 (1.00)	0.022 (0.55)	0.016 (0.40)
0603	0.063 (1.60)	0.032 (0.81)	0.025 (0.63)

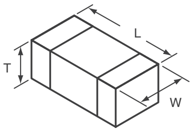

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Qty.	Pricing	
0201	25V	.10pF	±.02pF	478-2709-1-ND▲	16.50	97.50	281.25	—	—	—	02013J0R1PBWTR
	25V	.10pF	±.02pF	478-4367-1-ND◆†‡	16.50	97.50	281.25	478-4367-2-ND◆	5,000	270.00/M	02013J0R1PBSTR
	25V	.30pF	±.02pF	478-2711-1-ND▲	16.50	97.50	281.25	—	—	—	02013J0R3PBWTR
	25V	.30pF	±.02pF	478-4368-1-ND◆†‡	16.50	97.50	281.25	478-4368-2-ND◆	5,000	270.00/M	02013J0R3PBSTR
	25V	.40pF	±.02pF	478-2712-1-ND▲	5.10	33.75	127.50	478-2712-2-ND	5,000	195.00/M	02013J0R4PBWTR
	25V	.50pF	±.02pF	478-4369-1-ND◆†‡	16.50	97.50	281.25	478-4369-2-ND◆	5,000	270.00/M	02013J0R5PBSTR
	25V	1.0pF	±.05pF	478-2718-1-ND	13.20	78.00	225.00	—	—	—	02013J1R0ABWTR
	25V	1.0pF	±.05pF	478-4370-1-ND◆†•	13.20	78.00	225.00	478-4370-2-ND◆	5,000	216.00/M	02013J1R0ABSTR
	25V	1.2pF	±.05pF	478-4371-1-ND◆†•	13.20	78.00	225.00	478-4371-2-ND◆	5,000	216.00/M	02013J1R2ABSTR
	25V	1.3pF	±.05pF	478-4372-1-ND◆†•	13.20	78.00	225.00	478-4372-2-ND◆	5,000	216.00/M	02013J1R3ABSTR
	25V	1.4pF	±.05pF	478-2722-1-ND	19.80	117.00	337.50	—	—	—	02013J1R4ABWTR
	25V	1.4pF	±.05pF	478-4373-1-ND◆•	13.20	78.00	225.00	478-4373-2-ND◆	5,000	216.00/M	02013J1R4ABSTR
	25V	1.5pF	±.05pF	478-4374-1-ND◆†•	13.20	78.00	225.00	478-4374-2-ND◆	5,000	216.00/M	02013J1R5ABSTR
	25V	1.8pF	±.05pF	478-4375-1-ND◆†•	13.20	78.00	225.00	478-4375-2-ND◆	5,000	216.00/M	02013J1R8ABSTR
	25V	1.9pF	±.05pF	478-4376-1-ND◆•	13.20	78.00	225.00	478-4376-2-ND◆	5,000	216.00/M	02013J1R9ABSTR
	25V	2.0pF	±.05pF	478-4377-1-ND◆†•	11.00	65.00	187.50	478-4377-2-ND◆	5,000	180.00/M	02013J2R0ABSTR
	25V	2.2pF	±.10pF	478-2730-1-ND	11.00	65.00	187.50	—	—	—	02013J2R2BBWTR
	25V	2.2pF	±.10pF	478-4378-1-ND◆†•	11.00	65.00	187.50	478-4378-2-ND◆	5,000	180.00/M	02013J2R2BBSTR
	25V	2.3pF	±.10pF	478-4379-1-ND◆•	11.00	65.00	187.50	478-4379-2-ND◆	5,000	180.00/M	02013J2R3BBSTR
	25V	2.4pF	±.10pF	478-2732-1-ND	13.20	78.00	225.00	478-2732-2-ND	5,000	216.00/M	02013J2R4BBWTR
	25V	2.4pF	±.10pF	478-4380-1-ND◆†•	11.00	65.00	187.50	478-4380-2-ND◆	5,000	180.00/M	02013J2R4BBSTR
	25V	2.5pF	±.10pF	478-2733-1-ND	3.40	22.50	85.00	—	—	—	02013J2R5BBWTR
	25V	2.6pF	±.10pF	478-2734-1-ND	3.40	22.50	85.00	—	—	—	02013J2R6BBWTR
	25V	2.7pF	±.10pF	478-2735-1-ND	11.00	65.00	187.50	—	—	—	02013J2R7BBWTR
	25V	2.7pF	±.10pF	478-4381-1-ND◆†•	11.00	65.00	187.50	478-4381-2-ND◆	5,000	180.00/M	02013J2R7BBSTR
	16V	2.9pF	±.10pF	478-2737-1-ND	4.08	27.00	102.00	—	—	—	0201YJ2R9BBWTR
	16V	3.3pF	±.10pF	478-2740-1-ND	11.00	65.00	187.50	—	—	—	0201YJ3R3BBWTR
	16V	3.3pF	±.10pF	478-4382-1-ND◆†•	11.00	65.00	187.50	478-4382-2-ND◆	5,000	180.00/M	0201YJ3R3BBSTR
	16V	3.9pF	±.10pF	478-2742-1-ND	11.00	65.00	187.50	—	—	—	0201YJ3R9BBWTR
	16V	3.9pF	±.10pF	478-4383-1-ND◆†•	11.00	65.00	187.50	478-4383-2-ND◆	5,000	180.00/M	0201YJ3R9BBSTR
	10V	4.1pF	±.10pF	478-2743-1-ND	13.20	78.00	225.00	—	—	—	0201ZK4R1BBWTR
	10V	4.1pF	±.10pF	478-4385-1-ND◆•	11.00	65.00	187.50	478-4385-2-ND◆	5,000	180.00/M	0201ZK4R1BBSTR
	10V	4.5pF	±.10pF	478-2745-1-ND	4.08	27.00	102.00	—	—	—	0201ZK4R5BBWTR
	10V	4.7pF	±.10pF	478-2746-1-ND	11.00	65.00	187.50	—	—	—	0201ZK4R7BBWTR
	10V	4.7pF	±.10pF	478-4386-1-ND◆†•	11.00	65.00	187.50	478-4386-2-ND◆	5,000	180.00/M	0201ZK4R7BBSTR
	10V	5.6pF	±.10pF	478-2747-1-ND	11.00	65.00	187.50	—	—	—	0201ZK5R6BBWTR
	10V	5.6pF	±.10pF	478-4387-1-ND◆†	11.00	65.00	187.50	478-4387-2-ND◆	5,000	180.00/M	0201ZK5R6BBSTR
	10V	6.8pF	±.10pF	478-2748-1-ND	11.00	65.00	187.50	—	—	—	0201ZK6R8BBWTR
	10V	6.8pF	±.10pF	478-4388-1-ND◆†	11.00	65.00	187.50	478-4388-2-ND◆	5,000	180.00/M	0201ZK6R8BBSTR
	10V	7.5pF	±.10pF	478-2749-1-ND	11.00	65.00	187.50	—	—	—	0201ZK7R5BBWTR
	10V	7.5pF	±.10pF	478-4389-1-ND◆†	11.00	65.00	187.50	478-4389-2-ND◆	5,000	180.00/M	0201ZK7R5BBSTR
	10V	8.2pF	±.10pF	478-2750-1-ND	13.20	78.00	225.00	—	—	—	0201ZK8R2BBWTR
	10V	8.2pF	±.10pF	478-4390-1-ND◆†	11.00	65.00	187.50	478-4390-2-ND◆	5,000	180.00/M	0201ZK8R2BBSTR
	10V	10pF	±2%	478-2751-1-ND	15.40	91.00	262.50	—	—	—	0201ZK100GBWTR
	10V	10pF	±2%	478-4384-1-ND◆†	15.40	91.00	262.50	478-4384-2-ND◆	5,000	252.00/M	0201ZK100GBSTR
0402	25V	.10pF	±.02pF	478-4391-1-ND◆*	49.50	292.50	843.75	478-4391-2-ND◆	5,000	810.00/M	04023J0R1PBSTR
	25V	.20pF	±.02pF	478-2754-1-ND††	49.50	292.50	843.75	—	—	—	04023J0R2PBWTR
	25V	.20pF	±.02pF	478-4392-1-ND◆*	49.50	292.50	843.75	478-4392-2-ND◆	5,000	810.00/M	04023J0R2PBSTR
	25V	.30pF	±.02pF	478-2755-1-ND††	49.50	292.50	843.75	478-2755-2-ND	5,000	810.00/M	04023J0R3PBWTR
	25V	.30pF	±.02pF	478-4393-1-ND◆*	49.50	292.50	843.75	478-4393-2-ND◆	5,000	810.00/M	04023J0R3PBSTR
	25V	.40pF	±.02pF	478-2756-1-ND††	49.50	292.50	843.75	478-2756-2-ND	5,000	810.00/M	04023J0R4PBWTR
	25V	.40pF	±.02pF	478-4394-1-ND◆*	49.50	292.50	843.75	478-4394-2-ND◆	5,000	810.00/M	04023J0R4PBSTR
	25V	.50pF	±.02pF	478-4395-1-ND◆*	49.50	292.50	843.75	478-4395-2-ND◆	5,000	810.00/M	04023J0R5PBSTR
	25V	.60pF	±.02pF	478-2758-1-ND††	49.50	292.50	843.75	478-2758-2-ND	5,000	810.00/M	04023J0R6PBWTR
	25V	.60pF	±.02pF	478-4396-1-ND◆*	49.50	292.50	843.75	478-4396-2-ND◆	5,000	810.00/M	04023J0R6PBSTR
	25V	.70pF	±.02pF	478-2759-1-ND††	49.50	292.50	843.75	—	—	—	04023J0R7PBWTR
	25V	.70pF	±.02pF	478-4397-1-ND◆*	49.50	292.50	843.75	478-4397-2-ND◆	5,000	810.00/M	04023J0R7PBSTR
	25V	.80pF	±.02pF	478-2760-1-ND	49.50	292.50	843.75	478-2760-2-ND	5,000	810.00/M	04023J0R8PBWTR
	25V	.80pF	±.02pF	478-4398-1-ND◆	49.50	292.50	843.75	478-4398-2-ND◆	5,000	810.00/M	04023J0R8PBSTR
	25V	.90pF	±.02pF	478-2761-1-ND	49.50	292.50	843.75	478-2761-2-ND	5,000	810.00/M	04023J0R9PBWTR
	25V	.90pF	±.02pF	478-4399-1-ND◆	49.50	292.50	843.75	478-4399-2-ND◆	5,000	810.00/M	04023J0R9PBSTR
	25V	1.0pF	±.05pF	478-4400-1-ND◆★	19.80	117.00	337.50	478-4400-2-ND◆	5,000	324.00/M	04023J1R0ABSTR
	25V	1.1pF	±.05pF	478-2763-1-ND	19.80	117.00	337.50	478-2763-2-ND	5,000	324.00/M	04023J1R1ABWTR
	25V	1.1pF	±.05pF	478-4401-1-ND◆★	19.80	117.00	337.50	478-4401-2-ND◆	5,000	324.00/M	04023J1R1ABSTR
	25V	1.2pF	±.05pF	478-2764-1-ND	19.80	117.00	337.50	478-2764-2-ND	5,000	324.00/M	04023J1R2ABWTR
	25V	1.2pF	±.05pF	478-4402-1-ND◆★	19.80	117.00	337.50	478-4402-2-ND◆	5,000	324.00/M	04023J1R2ABSTR
	25V	1.3pF	±.05pF	478-2765-1-ND	19.80	117.00	337.50	478-2765-2-ND	5,000	324.00/M	04023J1R3ABWTR
	25V	1.3pF	±.05pF	478-4403-1-ND◆★	19.80	117.00	337.50	478-4403-2-ND◆	5,000	324.00/M	04023J1R3ABSTR
	25V	1.4pF	±.05pF	478-2766-1-ND	19.80	117.00	337.50	—	—	—	04023J1R4ABWTR
	25V	1.4pF	±.05pF	478-4404-1-ND◆★	19.80	117.00	337.50	478-4404-2-ND◆	5,000	324.00/M	04023J1R4ABSTR
	25V	1.5pF	±.05pF	478-2767-1-ND	19.80	117.00	337.50	—	—	—	04023J1R5ABWTR
	25V	1.5pF	±.05pF	478-4405-1-ND◆★	19.80	117.00	337.50	478-4405-2-ND◆	5,000	324.00/M	04023J1R5ABSTR
	25V	1.6pF	±.05pF	478-2768-1-ND	34.10	201.50	581.25	—	—	—	04023J1R6ABWTR
	25V	1.6pF	±.05pF	478-4406-1-ND◆★	32.78	193.70	558.75	478-4406-2-ND◆	5,000	536.00/M	04023J1R6ABSTR
	25V	1.7pF	±.05pF	478-2769-1-ND	19.80	117.00	337.50	478-2769-2-ND	5,000	324.00/M	04023J1R7ABWTR
	25V	1.7pF	±.05pF	478-4407-1-ND◆★	19.80	117.00	337.50	478-4407-2-ND◆	5,000	324.00/M	04023J1R7ABSTR
	25V	1.8pF	±.05pF	478-4408-1-ND◆★	19.80	117.00	337.50	478-4408-2-ND◆	5,000	324.00/M	04023J1R8ABSTR
	25V	1.9pF	±.05pF	478-2771-1-ND	19.80	117.00	337.50	—	—	—	04023J1R9ABWTR
	25V	1.9pF	±.05pF	478-4409-1-ND◆★	19.80	117.00	337.50	478-4409-2-ND◆	5,000	324.00/M	04023J1R9ABSTR
	25V	2.0pF	±.05pF	478-4410-1-ND◆★	19.80	117.00	337.50	478-4410-2-ND◆	5,000	324.00/M	04023J2R0ABSTR
	25V	2.1pF	±.10pF	478-2773-1-ND	13.20	78.00	225.00	478-2773-2-ND	5,000	216.00/M	04023J2R1BBWTR
	25V	2.1pF	±.10pF	478-4411-1-ND◆★	13.20	78.00	225.00	478-4411-2-ND◆	5,000	216.00/M	04023J2R1BBSTR
	25V	2.2pF	±.10pF	478-2774-1-ND	13.20	78.00	225.00	—	—	—	04023J2R2BBWTR
	25V	2.2pF	±.10pF	478-4412-1-ND◆★	13.20	78.00	225.00	478-4412-2-ND◆	5,000	216.00/M	04023J2R2BBSTR
	25V	2.3pF	±.10pF	478-2775-1-ND	13.20	78.00	225.00	478-2775-2-ND	5,000	216.00/M	04023J2R3BBWTR
	25V	2.3pF	±.10pF	478-4413-1-ND◆★	13.20	78.00	225.00	478-4413-2-ND◆	5,000	216.00/M	04023J2R3BBSTR
	25V	2.4pF	±.10pF	478-2776-1-ND	13.20	78.00	225.00	—	—	—	04023J2R4BBWTR
	25V	2.4pF	±.10pF	478-4414-1-ND◆★	13.20	78.00	225.00	478-4414-2-ND◆	5,000	216.00/M	04023J2R4BBSTR
	25V	2.5pF	±.10pF	478-2777-1-ND	13.20	78.00	225.00	—	—	—	04023J2R5BBWTR
	25V	2.5pF	±.10pF	478-4415-1-ND◆★	13.20	78.00	225.00	478-4415-2-ND◆	5,000	216.00/M	04023J2R5BBSTR
	25V	2.6pF	±.10pF	478-2778-1-ND	13.20	78.00	225.00	—	—	—	04023J2R6BBWTR
	25V	2.6pF	±.10pF	478-4416-1-ND◆★	13.20	78.00	225.00	478-4416-2-ND◆	5,000	216.00/M	04023J2R6BBSTR
	25V	2.7pF	±.10pF	478-4417-1-ND◆★	13.20	78.00	225.00	478-4417-2-ND◆	5,000	216.00/M	04023J2R7BBSTR
	25V	2.8pF	±.10pF	478-2780-1-ND	13.20	78.00	225.00	—	—	—	04023J2R8BBWTR
	25V	2.8pF	±.10pF	478-4418-1-ND◆★	13.20	78.00	225.00	478-4418-2-ND◆	5,000	216.00/M	04023J2R8BBSTR
	25V	2.9pF	±.10pF	478-2781-1-ND	13.20	78.00	225.00	—	—	—	04023J2R9BBWTR
	25V	2.9pF	±.10pF	478-4419-1-ND◆★	13.20	78.00	225.00	478-4419-2-ND◆	5,000	216.00/M	04023J2R9BBSTR

◆ ***RoHS Compliant***

(Continued)

Accu-P® Series Thin Film RF/Microwave Multilayer Chip Capacitors *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0402	25V	3.0pF	±.10pF	478-2782-1-ND	13.20	78.00	225.00	—	—	—	04023J3R0BBWTR
	25V	3.0pF	±.10pF	478-4420-1-ND◆★	13.20	78.00	225.00	478-4420-2-ND◆	5,000	216.00/M	04023J3R0BBSTR
	25V	3.1pF	±.10pF	478-2783-1-ND	13.20	78.00	225.00	—	—	—	04023J3R1BBWTR
	25V	3.1pF	±.10pF	478-4421-1-ND◆★	13.20	78.00	225.00	478-4421-2-ND◆	5,000	216.00/M	04023J3R1BBSTR
	25V	3.3pF	±.10pF	478-4422-1-ND◆★	13.20	78.00	225.00	478-4422-2-ND◆	5,000	216.00/M	04023J3R3BBSTR
	25V	3.6pF	±.10pF	478-4423-1-ND◆★	13.20	78.00	225.00	478-4423-2-ND◆	5,000	216.00/M	04023J3R6BBSTR
	25V	3.9pF	±.10pF	478-2786-1-ND	13.20	78.00	225.00	—	—	—	04023J3R9BBWTR
	25V	3.9pF	±.10pF	478-4424-1-ND◆★	13.20	78.00	225.00	478-4424-2-ND◆	5,000	216.00/M	04023J3R9BBSTR
	25V	4.1pF	±.10pF	478-2787-1-ND	13.20	78.00	225.00	478-2787-2-ND	5,000	216.00/M	04023J4R1BBWTR
	25V	4.1pF	±.10pF	478-4425-1-ND◆★	13.20	78.00	225.00	478-4425-2-ND◆	5,000	216.00/M	04023J4R1BBSTR
	25V	4.3pF	±.10pF	478-2788-1-ND	13.20	78.00	225.00	478-2788-2-ND	5,000	216.00/M	04023J4R3BBWTR
	25V	4.3pF	±.10pF	478-4426-1-ND◆★	13.20	78.00	225.00	478-4426-2-ND◆	5,000	216.00/M	04023J4R3BBSTR
	25V	4.5pF	±.10pF	478-2789-1-ND	13.20	78.00	225.00	478-2789-2-ND	5,000	216.00/M	04023J4R5BBWTR
	25V	4.5pF	±.10pF	478-4427-1-ND◆★	13.20	78.00	225.00	478-4427-2-ND◆	5,000	216.00/M	04023J4R5BBSTR
	25V	4.7pF	±.10pF	478-4428-1-ND◆★	13.20	78.00	225.00	478-4428-2-ND◆	5,000	216.00/M	04023J4R7BBSTR
	25V	5.6pF	±.10pF	478-4429-1-ND◆	13.20	78.00	225.00	478-4429-2-ND◆	5,000	216.00/M	04023J5R6BBSTR
	25V	6.8pF	±.10pF	478-4430-1-ND◆	13.20	78.00	225.00	478-4430-2-ND◆	5,000	216.00/M	04023J6R8BBSTR
	16V	8.2pF	±.10pF	478-4432-1-ND◆	13.20	78.00	225.00	478-4432-2-ND◆	5,000	216.00/M	0402YJ8R2BBSTR
	16V	10pF	±2%	478-4431-1-ND◆	19.80	117.00	337.50	478-4431-2-ND◆	5,000	324.00/M	0402YJ100GBSTR
	10V	12pF	±2%	478-4433-1-ND◆	19.80	117.00	337.50	478-4433-2-ND◆	5,000	324.00/M	0402ZJ120GBSTR
	10V	15pF	±2%	478-2796-1-ND	19.80	117.00	337.50	478-2796-2-ND	5,000	324.00/M	0402ZJ150GBWTR
	10V	15pF	±2%	478-4434-1-ND◆	19.80	117.00	337.50	478-4434-2-ND◆	5,000	324.00/M	0402ZK150GBSTR
	10V	18pF	±2%	478-4435-1-ND◆	19.80	117.00	337.50	478-4435-2-ND◆	5,000	324.00/M	0402ZK180GBSTR
	10V	22pF	±2%	478-4436-1-ND	19.80	117.00	337.50	478-4436-2-ND	5,000	324.00/M	0402ZK220GBWTR
0603	50V	.5pF	±.10pF	478-5064-1-ND◆	27.50	162.50	468.75	478-5064-2-ND◆	3,000	450.00/M	06035J0R5BBSTR
	50V	.8pF	±.10pF	478-5065-1-ND◆	27.50	162.50	468.75	478-5065-2-ND◆	3,000	450.00/M	06035J0R8BBSTR
	50V	.10pF	±.02pF	478-2799-1-ND	49.50	292.50	843.75	—	—	—	06035J0R1PBTTR
	50V	.10pF	±.02pF	478-4437-1-ND◆Δ	49.50	292.50	843.75	478-4437-2-ND◆	3,000	810.00/M	06035J0R1PBSTR
	50V	.20pF	±.02pF	478-2800-1-ND	49.50	292.50	843.75	478-2800-2-ND	3,000	810.00/M	06035J0R2PBTTR
	50V	.20pF	±.02pF	478-4438-1-ND◆Δ	49.50	292.50	843.75	478-4438-2-ND◆	3,000	810.00/M	06035J0R2PBSTR
	50V	.30pF	±.02pF	478-2801-1-ND	49.50	292.50	843.75	—	—	—	06035J0R3PBTTR
	50V	.30pF	±.02pF	478-4439-1-ND◆Δ	49.50	292.50	843.75	478-4439-2-ND◆	3,000	810.00/M	06035J0R3PBSTR
	50V	.40pF	±.02pF	478-2802-1-ND	49.50	292.50	843.75	478-2802-2-ND	3,000	810.00/M	06035J0R4PBTTR
	50V	.40pF	±.02pF	478-4440-1-ND◆	49.50	292.50	843.75	478-4440-2-ND◆	3,000	810.00/M	06035J0R4PBSTR
	50V	.50pF	±.02pF	478-2803-1-ND	49.50	292.50	843.75	478-2803-2-ND	3,000	810.00/M	06035J0R5PBTTR
	50V	.50pF	±.02pF	478-4441-1-ND◆Δ	49.50	292.50	843.75	478-4441-2-ND◆	3,000	810.00/M	06035J0R5PBSTR
	50V	.60pF	±.02pF	478-2804-1-ND	49.50	292.50	843.75	—	—	—	06035J0R6PBTTR
	50V	.60pF	±.02pF	478-4442-1-ND◆Δ	49.50	292.50	843.75	478-4442-2-ND◆	3,000	810.00/M	06035J0R6PBSTR
	50V	.70pF	±.02pF	478-2805-1-ND	49.50	292.50	843.75	478-2805-2-ND	3,000	810.00/M	06035J0R7PBTTR
	50V	.70pF	±.02pF	478-4445-1-ND◆Δ	49.50	292.50	843.75	478-4445-2-ND◆	3,000	810.00/M	06035J0R7PBSTR
	50V	.80pF	±.02pF	478-2806-1-ND	49.50	292.50	843.75	478-2806-2-ND	3,000	810.00/M	06035J0R8PBTTR
	50V	.80pF	±.02pF	478-4446-1-ND◆Δ	49.50	292.50	843.75	478-4446-2-ND◆	3,000	810.00/M	06035J0R8PBSTR
	50V	.90pF	±.02pF	478-2807-1-ND	49.50	292.50	843.75	478-2807-2-ND	3,000	810.00/M	06035J0R9PBTTR
	50V	.90pF	±.02pF	478-4447-1-ND◆Δ	49.50	292.50	843.75	478-4447-2-ND◆	3,000	810.00/M	06035J0R9PBSTR
	50V	1.0pF	±.10pF	478-4450-1-ND◆Δ	25.30	149.50	431.25	478-4450-2-ND◆	3,000	414.00/M	06035J1R0BBSTR
	50V	1.1pF	±.10pF	478-2809-1-ND	25.30	149.50	431.25	478-2809-2-ND	3,000	414.00/M	06035J1R1BBTTR
	50V	1.1pF	±.10pF	478-4451-1-ND◆Δ	25.30	149.50	431.25	478-4451-2-ND◆	3,000	414.00/M	06035J1R1BBSTR
	50V	1.2pF	±.10pF	478-2810-1-ND	25.30	149.50	431.25	—	—	—	06035J1R2BBTTR
	50V	1.2pF	±.10pF	478-4452-1-ND◆Δ	25.30	149.50	431.25	478-4452-2-ND◆	3,000	414.00/M	06035J1R2BBSTR
	50V	1.5pF	±.10pF	478-2811-1-ND	25.30	149.50	431.25	—	—	—	06035J1R5BBTTR
	50V	1.5pF	±.10pF	478-4453-1-ND◆Δ	25.30	149.50	431.25	478-4453-2-ND◆	3,000	414.00/M	06035J1R5BBSTR
	50V	1.8pF	±.10pF	478-2812-1-ND	25.30	149.50	431.25	—	—	—	06035J1R8BBTTR
	50V	1.8pF	±.10pF	478-4454-1-ND◆Δ	25.30	149.50	431.25	478-4454-2-ND◆	3,000	414.00/M	06035J1R8BBSTR
	50V	2.0pF	±.10pF	478-2813-1-ND	25.30	149.50	431.25	—	—	—	06035J2R0BBTTR
	50V	2.0pF	±.10pF	478-4455-1-ND◆Δ	25.30	149.50	431.25	478-4455-2-ND◆	3,000	414.00/M	06035J2R0BBSTR
	50V	2.2pF	±.10pF	478-4456-1-ND◆Δ	25.30	149.50	431.25	478-4456-2-ND◆	3,000	414.00/M	06035J2R2BBSTR
	50V	2.4pF	±.10pF	478-2815-1-ND	25.30	149.50	431.25	478-2815-2-ND	3,000	414.00/M	06035J2R4BBTTR
	50V	2.4pF	±.10pF	478-4457-1-ND◆Δ	25.30	149.50	431.25	478-4457-2-ND◆	3,000	414.00/M	06035J2R4BBSTR
	50V	2.7pF	±.10pF	478-2816-1-ND	25.30	149.50	431.25	478-2816-2-ND	3,000	414.00/M	06035J2R7BBTTR
	50V	2.7pF	±.10pF	478-4458-1-ND◆Δ	25.30	149.50	431.25	478-4458-2-ND◆	3,000	414.00/M	06035J2R7BBSTR
	50V	3.0pF	±.10pF	478-4459-1-ND◆Δ	25.30	149.50	431.25	478-4459-2-ND◆	3,000	414.00/M	06035J3R0BBSTR
	50V	3.3pF	±.10pF	478-2818-1-ND	25.30	149.50	431.25	—	—	—	06035J3R3BBTTR
	50V	3.3pF	±.10pF	478-4460-1-ND◆Δ	25.30	149.50	431.25	478-4460-2-ND◆	3,000	414.00/M	06035J3R3BBSTR
	50V	3.9pF	±.10pF	478-2819-1-ND	25.30	149.50	431.25	—	—	—	06035J3R9BBTTR
	50V	3.9pF	±.10pF	478-4461-1-ND◆Δ	25.30	149.50	431.25	478-4461-2-ND◆	3,000	414.00/M	06035J3R9BBSTR
	50V	4.7pF	±.10pF	478-4462-1-ND◆Δ	25.30	149.50	431.25	478-4462-2-ND◆	3,000	414.00/M	06035J4R7BBSTR
	50V	5.6pF	±.10pF	478-2821-1-ND	25.30	149.50	431.25	478-2821-2-ND	3,000	414.00/M	06035J5R6BBTTR
	50V	5.6pF	±.10pF	478-4463-1-ND◆Δ	25.30	149.50	431.25	478-4463-2-ND◆	3,000	414.00/M	06035J5R6BBSTR
	50V	6.8pF	±.10pF	478-2822-1-ND	25.30	149.50	431.25	—	—	—	06035J6R8BBTTR
	50V	6.8pF	±.10pF	478-4464-1-ND◆Δ	25.30	149.50	431.25	478-4464-2-ND◆	3,000	414.00/M	06035J6R8BBSTR
	50V	8.2pF	±.10pF	478-4465-1-ND◆Δ	25.30	149.50	431.25	478-4465-2-ND◆	3,000	414.00/M	06035J8R2BBSTR
	50V	10pF	±2%	478-2824-1-ND	25.30	149.50	431.25	478-2824-2-ND	3,000	414.00/M	06035J100GBTTR
	50V	10pF	±2%	478-4448-1-ND◆Δ	25.30	149.50	431.25	478-4448-2-ND◆	3,000	414.00/M	06035J100GBSTR
	50V	12pF	±2%	478-2825-1-ND	25.30	149.50	431.25	478-2825-2-ND	3,000	414.00/M	06035J120GBTTR
	50V	12pF	±2%	478-4449-1-ND◆Δ	25.30	149.50	431.25	478-4449-2-ND◆	3,000	414.00/M	06035J120GBSTR
	25V	15pF	±2%	478-2826-1-ND	25.30	149.50	431.25	478-2826-2-ND	3,000	414.00/M	06033J150GBTTR
	25V	15pF	±2%	478-4443-1-ND◆Δ	25.30	149.50	431.25	478-4443-2-ND◆	3,000	414.00/M	06033J150GBSTR
	25V	22pF	±2%	478-4444-1-ND◆Δ	25.30	149.50	431.25	478-4444-2-ND◆	3,000	414.00/M	06033J220GBSTR

◆ ***RoHS Compliant***

Designer Kits

▲	**478-2834-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces).	**$178.75**
‡	**478-4468-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces) ***RoHS Compliant***	**$178.75**
††	**478-2832-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces)	**$178.75**
*	**478-4470-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces) ***RoHS Compliant***	**$178.75**
★	**478-4469-ND**	20 each of values denoted plus value: (pF) 3.4 not stocked by Digi-Key (600 total pieces) ***RoHS Compliant***	**$178.75**
Δ	**478-4471-ND**	20 each of values denoted plus value: (pF) 18 not stocked by Digi-Key. (values .10pF-.30pF are ±0.5pF tolerance and values 0.4pF-.90pF are ±0.1pF tolerance) (600 total pieces) ***RoHS Compliant***	**$148.96**
†	**478-4466-ND**	20 each of values denoted ***RoHS Compliant***	**$178.75**
•	**478-4467-ND**	20 each of values denoted ***RoHS Compliant***	**$178.75**

NEW! GX Series Ultra Broad Band Capacitors

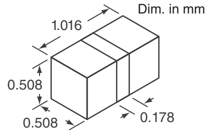

The GX Series was developed specifically to address DC blocking issues from ~16KHz (-3dB roll-off) to 40GHz. Most applications will experience resonance-free insertion loss of <0.5dB thru at least 40GHz. Insertion loss at higher frequencies is in part dependent on installation parameters. Using AVX's patented precision thin film termination process, the part is designed to be completely orientation insensitive with a standard EIA 0402 footprint to minimize board space requirements.

Applications: • Semi-Conductor Data Communications • Receiver Optical Sub-Assemblies • Transimpedance Amplifiers • Test Equipment

Size Code	WV DC	Capacitance (µF)	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 500	AVX Part No.
0402	10V	.10	±10%	478-5672-1-ND	161.70	955.50	478-5672-2-ND	1323.00	GX02ZZ104KAT2-500
	16V	.10	±10%	478-5671-1-ND	161.70	955.50	478-5671-2-ND	1323.00	GX02YD104KAT2-500

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

U Series Capacitors

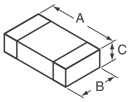

Size Code	Dimensions - Inch (mm) A	B	C
0402	0.039 (1.00)	0.020 (0.50)	0.024 (0.6)
0603	0.060 (1.52)	0.030 (0.76)	0.036 (0.91)
0805	0.079 (2.01)	0.049 (1.25)	0.040 (1.02)

"U" Series Capacitors are C0G (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the communications market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity. **Specifications:** • Insulation Resistance: 10^{12} Ω minimum @ 25°C • Operating Temperature: -55°C ~ 125°C

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0402	C0G (NP0)	50V	0.8pF	±0.1pF	478-5716-1-ND ***NEW!***	1.24	7.35	21.19	478-5716-2-ND ***NEW!***	10,000	20.00/M	04025U0R8BAT2A
	C0G (NP0)	50V	1.0pF	±0.1pF	478-3832-1-ND	1.82	10.73	30.94	478-3832-2-ND	10,000	30.00/M	04025U1R0BAT2A
	C0G (NP0)	50V	1.5pF	±0.1pF	478-5992-1-ND ***NEW!***	1.24	7.35	21.19	478-5992-2-ND ***NEW!***	10,000	20.00/M	04025U1R5BAT2A
	C0G (NP0)	50V	2.0pF	±0.1pF	478-3833-1-ND	1.82	10.73	30.94	478-3833-2-ND	10,000	30.00/M	04025U2R0BAT2A
	C0G (NP0)	50V	3.3pF	±0.1pF	478-5993-1-ND ***NEW!***	1.24	7.35	21.19	478-5993-2-ND ***NEW!***	10,000	20.00/M	04025U3R3BAT2A
	C0G (NP0)	50V	10pF	±0.25pF	478-5991-1-ND ***NEW!***	1.02	6.05	17.44	478-5991-2-ND ***NEW!***	10,000	17.00/M	04025U100CAT2A
	C0G (NP0)	50V	10pF	±1%	478-5717-1-ND ***NEW!***	4.19	24.77	71.44	478-5717-2-ND ***NEW!***	10,000	69.00/M	04025U100FAT2A
	C0G (NP0)	50V	10pF	±5%	478-3831-1-ND	1.24	7.35	21.19	478-3831-2-ND	10,000	20.00/M	04025U100JAT2A
0603	C0G (NP0)	200V	1.0pF	±0.25pF	478-3836-1-ND	21.45	126.75	365.63	478-3836-2-ND	4,000	351.00/M	06032U1R0CAT2A
	C0G (NP0)	200V	1.6pF	±0.1pF	478-3837-1-ND	3.85	22.75	65.63	478-3837-2-ND	4,000	63.00/M	06032U1R6BAT2A
	C0G (NP0)	200V	2.0pF	±0.1pF	478-3838-1-ND	3.85	22.75	65.63	478-3838-2-ND	4,000	63.00/M	06032U2R0BAT2A
	C0G (NP0)	200V	2.2pF	±0.25pF	478-3839-1-ND	21.45	126.75	365.63	478-3839-2-ND	4,000	351.00/M	06032U2R2CAT2A
	C0G (NP0)	200V	2.7pF	±0.1pF	478-3840-1-ND	3.85	22.75	65.63	478-3840-2-ND	4,000	63.00/M	06032U2R7BAT2A
	C0G (NP0)	200V	7.5pF	±0.25pF	478-3841-1-ND	3.08	18.20	52.50	—	—	—	06032U7R5CAT2A
	C0G (NP0)	200V	8.2pF	±0.25pF	478-3842-1-ND	21.45	126.75	365.63	478-3842-2-ND	4,000	351.00/M	06032U8R2CAT2A
	C0G (NP0)	200V	10pF	±5%	478-3835-1-ND	19.03	112.45	324.38	478-3835-2-ND	4,000	311.00/M	06032U100JAT2A
	C0G (NP0)	100V	27pF	±5%	478-3834-1-ND	19.03	112.45	324.38	478-3834-2-ND	4,000	311.00/M	06031U270JAT2A
0805	C0G (NP0)	200V	1.0pF	±0.25pF	478-3843-1-ND	23.65	139.75	403.13	478-3843-2-ND	2,000	387.00/M	08052U1R0CAT2A
	C0G (NP0)	200V	3.3pF	±0.5pF	478-3846-1-ND	4.18	24.70	71.25	478-3846-2-ND	2,000	68.00/M	08052U3R3DAT2A
	C0G (NP0)	200V	3.9pF	±0.25pF	478-3847-1-ND	5.28	31.20	90.00	478-3847-2-ND	2,000	86.00/M	08052U3R9CAT2A
	C0G (NP0)	200V	4.7pF	±0.25pF	478-3849-1-ND	5.28	31.20	90.00	478-3849-2-ND	2,000	86.00/M	08052U4R7CAT2A
	C0G (NP0)	200V	6.8pF	±0.25pF	478-3850-1-ND	23.65	139.75	403.13	478-3850-2-ND	2,000	387.00/M	08052U6R8CAT2A
	C0G (NP0)	200V	27pF	±5%	478-3844-1-ND	3.85	22.75	65.63	478-3844-2-ND	2,000	63.00/M	08052U270JAT2A
	C0G (NP0)	200V	47pF	±2%	478-3848-1-ND	23.65	139.75	403.13	478-3848-2-ND	2,000	387.00/M	08052U470GAT2A
	C0G (NP0)	200V	47pF	±1%	478-3830-1-ND	8.80	52.00	150.00	478-3830-2-ND	2,000	144.00/M	08052U470FAT2A

Designer Kits

478-5615-ND	0402 High Frequency Ceramic Capacitor Kit — 375 pieces – 25 each of 0.5pF ~ 15.0pF	**$119.70**
478-5616-ND	0603 High Frequency Ceramic Capacitor Kit — 600 pieces – 25 each of 1.0pF ~ 47.0pF	**$119.70**
478-5617-ND	0805 High Frequency Ceramic Capacitor Kit — 750 pieces – 25 each of 1.0pF ~ 160pF	**$119.70**

UltraThin Ceramic Capacitor

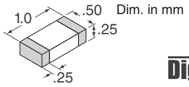

The UltraThin (UT) series of ceramic capacitors was designed to meet the stringent thickness requirements of our customers. AVX developed a new termination process (FCT - Fine Copper Termination) that provides unbeatable flatness and repeatability. The series includes products <0.35mm in height and is targeted for applications such as Smart cards, memory modules, High Density SIM cards, mobile phones, MP3 players, and embedded solutions.

Size Code	Type	WV DC (V)	Capacitance	Tolerance (%)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 15,000	AVX Part No.
0402	X5R	25	10,000pF	±20	478-5534-1-ND	1.20	1.08	.90	478-5534-2-ND	432.00/M	UT023D103MAT2C

LT Series Low Profile Multilayer Chip Capacitors

AVX introduces the LT series that is comprised of a range of low profile products in the X5R dielectric. X5R is a Class II dielectric with temperature variation of capacitance within ±15% from -55°C ~ 85°C. Series includes 0402, 0603, 0805 and 1206 packages in compact, low-profile designs. The LT Series is ideal for decoupling and filtering applications where height clearance is limited.

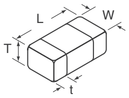

Size Code	Dimensions — mm L	W	T (max.)	t
0402	1.00	.50	.56	.25
0603	1.60	.81	.56	.35
0805	2.01	1.25	.95	.50
1206	3.20	1.60	1.02	.50

Size Code	WV DC (V)	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0402	4	1.0µF	±20%	478-4069-1-ND	5.72	33.80	97.50	135.20	478-4069-2-ND	10,000	94.00/M	LT024D105MAT2C
	4	2.2µF	±20%	478-5075-1-ND	8.80	52.00	150.00	208.00	—	—	—	LT024D225MAT2S
0603	4	4.7µF	±20%	478-4070-1-ND	15.95	94.25	271.88	377.00	478-4070-2-ND	4,000	261.00/M	LT034D475MAT2S
	6.3	2.2µF	±20%	478-4071-1-ND	9.68	57.20	165.00	228.80	—	—	—	LT036D225MAT2S
	16	1.0µF	±10%	478-4072-1-ND	15.95	94.25	271.88	377.00	478-4072-2-ND	4,000	261.00/M	LT03YD105KAT2S
0805	6.3	10µF	±20%	478-4073-1-ND	19.91	117.65	339.38	470.60	478-4073-2-ND	4,000	326.00/M	LT056D106MAT2X
	16	4.7µF	±20%	478-4076-1-ND	10.56	62.40	180.00	249.60	478-4076-2-ND	4,000	173.00/M	LT05YD475MAT2X
	25	1.0µF	±20%	478-5078-1-ND	33.55	198.25	571.88	793.00	478-5078-2-ND	4,000	549.00/M	LT053D105MAT2X
1206	16	10µF	±20%	478-4077-1-ND	21.45	126.75	365.63	507.00	478-4077-2-ND	4,000	351.00/M	LT06YD106MAT2W
	25	4.7µF	±20%	478-5079-1-ND	16.76	99.06	285.75	396.24	—	—	—	LT063D475MAT2X

MH Series Ceramic Capacitors – Molded SM Leadframe

The MH Series capacitor is a SMT molded part with a multilayer ceramic insert. MH capacitors combine the ceramic attributes of very low ESR, non-polar construction, excellent high frequency behavior, excellent voltage stress capabilities and wide temperature range with the enhanced mechanical protection of a molded case. The MH range provides a lead-free solution to customers who have previously been unable to use large case ceramic capacitors because of mechanical stress concerns.

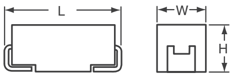

EIA Code	Case Dimensions – mm L	W	H
7361-38	7.30	6.10	3.45

Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape and Reel Pricing 400	AVX Part No.
X7R	100V	1.0µF	±20%	478-5426-1-ND	29.15	17.23	478-5426-2-ND	1908.00	MHV11C105MAT2A
	100V	1.5µF	±20%	478-5427-1-ND	30.36	17.94	478-5427-2-ND	1987.20	MHV11C155MAT2A
	100V	2.2µF	±20%	478-5421-1-ND	32.23	19.05	478-5421-2-ND	2109.60	MHV11C225MAT2A
	50V	4.7µF	±20%	478-5425-1-ND	33.22	19.63	478-5425-2-ND	2174.40	MHV15C475MAT2A
	50V	10µF	±20%	478-5422-1-ND	33.88	20.02	478-5422-2-ND	2217.60	MHV15C106MAT2A
	25V	10µF	±20%	478-5424-1-ND	33.88	20.02	478-5424-2-ND	2217.60	MHV13C106MAT2A
	25V	22µF	±20%	478-5423-1-ND	34.10	20.15	478-5423-2-ND	2232.00	MHV13C226MAT2A

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX Low Inductance Capacitors 0508/0612 IDC (InterDigitated Capacitors)

Very low equivalent series inductance, surface mountable, high speed decoupling capacitor. Measured inductances of 120pH (for 0612) and 95pH (for 0508) are the lowest in the FR4 mountable device family. Opposing current flow creates opposing magnetic fields. This causes the fields to cancel, effectively reducing the equivalent series inductance. Perfect solution for decoupling high speed microprocessors by allowing the engineers to lower the power delivery inductance of the entire system through the use of eight terminals. Overall reduction in decoupling components due to very low series inductance and high capacitance.

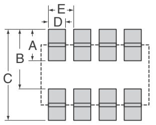

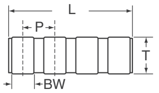

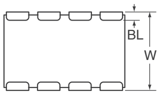

Characteristics:
- Temperature Coefficient: ±15% (OVDC) • Dissipation Factor: 4V and 6.3V=6.5% Maximum, 10V=5.0% Maximum, 16V=3.5% Maximum • Insulation (ppm/C): 12.0 • Thermal Conductivity: 4-5W/M K • Terminations Available: Plated Nickel and Solder • Maximum Thickness: 0.037" (0.95mm) • Operating Temperature: **X7R:** -55°C ~ 125°C, **X5R:** -55°C ~ 85°C

Size Code	Dimensions — mm										
	A	B	C	D	E	L	T	W	BW	BL	P
0508	0.64	1.27	1.91	0.28	0.50	2.03 ±0.2	0.95 Max.	1.27 ±0.2	0.254 ±0.1	0.18 +0.25/-0.08	0.50 ±0.05
0612	0.89	1.65	2.54	0.46	0.80	3.20 ±0.2	0.95 Max.	1.60 ±0.2	0.41 ±0.1	0.18 +0.25/-0.08	0.80 ±0.1

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0508	X7R	25V	47000pF	±20	478-4941-1-ND	4.95	2.93	1.69	478-4941-2-ND	4,000	810.00/M	W2L13C473MAT1S
	X7R	16V	47000pF	±20	478-2326-1-ND	3.52	2.08	1.20	478-2326-2-ND	4,000	576.00/M	W2L1YC473MAT1S
	X7R	16V	68000pF	±20	478-2327-1-ND	3.52	2.08	1.20	478-2327-2-ND	4,000	576.00/M	W2L1YC683MAT1S
	X7R	16V	.1µF	±20	478-2121-1-ND	3.63	2.15	1.24	478-2121-2-ND	4,000	594.00/M	W2L1YC104MAT1A
	X7R	16V	.22µF	±20	478-2329-1-ND	3.96	2.34	1.35	478-2329-2-ND	4,000	648.00/M	W2L1YC224MAT1A
	X7R	10V	.1µF	±20	478-2122-1-ND	3.63	2.15	1.24	478-2122-2-ND	4,000	594.00/M	W2L1ZC104MAT1S
	X7R	10V	.47µF	±20	478-2123-1-ND	3.85	2.28	1.32	478-2123-2-ND	4,000	630.00/M	W2L1ZC474MAT1A
	X7R	6.3V	1.0µF	±20	478-4942-1-ND	4.40	2.60	1.50	478-4942-2-ND	4,000	720.00/M	W2L16C105MAT1A
	X7R	4.0V	.33µF	±20	478-2330-1-ND	4.29	2.54	1.47	478-2330-2-ND	4,000	702.00/M	W2L14C334MAT1A
	X7R	4.0V	1.0µF	±20	478-2126-1-ND	4.29	2.54	1.47	478-2126-2-ND	4,000	702.00/M	W2L14C105MAT1A
	X5R	10V	.33µF	±20	478-2331-1-ND	4.18	2.47	1.43	478-2331-2-ND	4,000	684.00/M	W2L1ZD334MAT1S
	X5R	10V	.47µF	±20	478-2124-1-ND	3.85	2.28	1.32	478-2124-2-ND	4,000	630.00/M	W2L1ZD474MAT1S
	X5R	6.3V	1.0µF	±20	478-2125-1-ND	4.40	2.60	1.50	478-2125-2-ND	4,000	720.00/M	W2L16D105MAT1A
	X5R	4.0V	1.5µF	±20	478-2127-1-ND	3.85	2.28	1.32	478-2127-2-ND	4,000	630.00/M	W2L14D155MAT1A
	X5R	4.0V	2.2µF	±20	478-4631-1-ND	4.62	2.73	1.58	478-4631-2-ND	4,000	756.00/M	W2L14D225MAT1A
	X7S	4.0V	1.0µF	±20	478-5501-1-ND	4.62	2.73	1.58	478-5501-2-ND	4,000	756.00/M	W2L14Z105MAT1S
	X7S	4.0V	2.2µF	±20	478-5502-1-ND	4.95	2.93	1.69	478-5502-2-ND	4,000	810.00/M	W2L14Z225MAT1S
0612	X7R	10V	.22µF	±20	478-2328-1-ND	3.85	2.28	1.32	478-2328-2-ND	4,000	630.00/M	W3L1ZC224MAT1A
	X7R	16V	.22µF	±20	478-2335-1-ND	3.85	2.28	1.32	478-2335-2-ND	4,000	630.00/M	W3L1YC224MAT1S
	X7R	16V	.33µF	±20	478-2334-1-ND	3.96	2.34	1.35	478-2334-2-ND	4,000	648.00/M	W3L1YC334MAT1A
	X7R	16V	.47µF	±20	478-2128-1-ND	4.09	2.42	1.40	478-2128-2-ND	4,000	667.80/M	W3L1YC474MAT1A
	X7R	10V	.68µF	±20	478-2333-1-ND	4.24	2.51	1.45	478-2333-2-ND	2,000	693.00/M	W3L1ZC684MAT1A
	X7R	10V	1.0µF	±20	478-2129-1-ND	4.62	2.73	1.58	478-2129-2-ND	2,000	756.00/M	W3L1ZC105MAT1A
	X7R	6.3V	2.2µF	±20	478-4940-1-ND	4.95	2.93	1.69	478-4940-2-ND	2,000	810.00/M	W3L16C225MAT1A
	X7R	4.0V	2.2µF	±20	478-2131-1-ND	4.95	2.93	1.69	478-2131-2-ND	2,000	810.00/M	W3L14C225MAT1A
	X5R	10V	2.2µF	±20	478-2332-1-ND	4.62	2.73	1.58	478-2332-2-ND	4,000	756.00/M	W3L1ZD225MAT1A
	X5R	6.3V	2.2µF	±20	478-2130-1-ND	4.95	2.93	1.69	478-2130-2-ND	4,000	810.00/M	W3L16D225MAT1A
	X5R	4.0V	3.3µF	±20	478-2132-1-ND	4.95	2.93	1.69	478-2132-2-ND	4,000	810.00/M	W3L14D335MAT1A

Tip and Ring Multilayer Ceramic Chip Capacitors

Size Code	Dimensions — mm			
	L	W	T	t
0805	2.01 ±0.20	1.25 ±0.20	1.30 Max.	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	1.50 Max.	0.50 ±0.25
1210	3.2 ±0.20	2.50 ±0.20	1.78 Max.	0.50 ±0.25
1808	4.57 ±0.25	2.03 ±0.25	1.78 Max.	0.63 ±0.38
1812	4.50 ±0.30	3.2 ±0.20	2.00 Max.	0.63 ±0.38
1825	4.50 ±0.30	6.34 ±0.30	2.00 Max.	0.63 ±0.38
2220	5.60 ±0.30	5.10 ±0.40	2.00 Max.	0.63 ±0.38
2225	5.60 ±0.25	6.35 ±0.25	2.00 Max.	0.63 ±0.38

AVX Tip and Ring or ring detector multilayer ceramic chip capacitors are designed as a standard telecom filter to block -48 volts DC telephone line voltage and pass subscriber's AC signal pulse (16 to 25Hz, 70 to 90Vrms). The ringer capacitors replace large leaded film capacitors and are ideal for telecom/modem applications. These capacitors not only save valuable real estate on the board and reduce the weight of the overall product, but they all feature standard surface mounting capabilities that are so critical to new and compact designs.

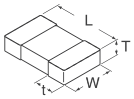

Specifications:
- Operating Voltage Range: -55°C ~ 125°C • Dielectric Strength: 250% of rated voltage for 5 seconds at 50mA maximum current • Dissipation Factor: 2.5% maximum

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	X7R	250V	680pF	±10	478-5550-1-ND	2.70	22.50	75.00	478-5550-2-ND	2,000	90.00/M	0805PC681KAT1A
	X7R	250V	1000pF	±10	478-5541-1-ND	2.70	22.50	75.00	478-5541-2-ND	2,000	90.00/M	0805PC102KAT1A
	X7R	250V	1200pF	±10	478-5542-1-ND	2.70	22.50	75.00	478-5542-2-ND	2,000	90.00/M	0805PC122KAT1A
	X7R	250V	1500pF	±10	478-3976-1-ND	16.50	97.50	281.25	478-3976-2-ND	2,000	270.00/M	0805PC152KAT1A
	X7R	250V	1800pF	±10	478-5544-1-ND	2.70	22.50	75.00	478-5544-2-ND	2,000	90.00/M	0805PC182KAT1A
	X7R	250V	1900pF	±10	478-5546-1-ND	2.70	22.50	75.00	478-5546-2-ND	2,000	90.00/M	0805PC192KAT1A
	X7R	250V	2200pF	±10	478-5547-1-ND	2.70	22.50	75.00	478-5547-2-ND	2,000	90.00/M	0805PC222KAT1A
	X7R	250V	3900pF	±10	478-5548-1-ND	2.70	22.50	75.00	478-5548-2-ND	2,000	90.00/M	0805PC392KAT1A
	X7R	250V	4700pF	±10	478-5549-1-ND	2.70	22.50	75.00	478-5549-2-ND	2,000	90.00/M	0805PC472KAT1A
	X7R	250V	6800pF	±10	478-3979-1-ND	16.50	97.50	281.25	478-3979-2-ND	2,000	270.00/M	0805PC682KAT1A
	X7R	250V	8200pF	±10	478-5551-1-ND	2.70	22.50	75.00	478-5551-2-ND	2,000	90.00/M	0805PC822KAT1A
	X7R	250V	10000pF	±10	478-3975-1-ND	13.20	78.00	225.00	478-3975-2-ND	4,000	216.00/M	0805PC103KAT1A
	X7R	250V	12000pF	±10	478-5543-1-ND	2.70	22.50	75.00	478-5543-2-ND	2,000	90.00/M	0805PC123KAT1A
	X7R	250V	15000pF	±10	478-3977-1-ND	16.50	97.50	281.25	478-3977-2-ND	2,000	270.00/M	0805PC153KAT1A
	X7R	250V	18000pF	±10	478-5545-1-ND	2.70	22.50	75.00	478-5545-2-ND	2,000	90.00/M	0805PC183KAT1A
	X7R	250V	22000pF	±10	478-3978-1-ND	16.50	97.50	281.25	478-3978-2-ND	2,000	270.00/M	0805PC223KAT1A
1206	X7R	250V	1000pF	±10	478-5552-1-ND	3.24	27.00	90.00	478-5552-2-ND	2,000	108.00/M	1206PC102KAT1A
	X7R	250V	3300pF	±10	478-5556-1-ND	3.60	30.00	100.00	478-5556-2-ND	2,000	120.00/M	1206PC332KAT1A
	X7R	250V	4700pF	±10	478-5605-1-ND	3.60	30.00	100.00	478-5605-2-ND	2,000	120.00/M	1206PC472KAT1A
	X7R	250V	8200pF	±10	478-5560-1-ND	3.60	30.00	100.00	478-5560-2-ND	2,000	120.00/M	1206PC822KAT1A
	X7R	250V	10000pF	±10	478-5553-1-ND	3.24	27.00	90.00	478-5553-2-ND	4,000	108.00/M	1206PC103KAT1A
	X7R	250V	18000pF	±10	478-5554-1-ND	3.60	30.00	100.00	478-5554-2-ND	2,000	120.00/M	1206PC183KAT1A
	X7R	250V	22000pF	±10	478-5555-1-ND	3.60	30.00	100.00	478-5555-2-ND	2,000	120.00/M	1206PC223KAT1A
	X7R	250V	27000pF	±10	478-3980-1-ND	19.80	117.00	337.50	478-3980-2-ND	2,000	324.00/M	1206PC273KAT1A
	X7R	250V	33000pF	±10	478-5557-1-ND	3.60	30.00	100.00	478-5557-2-ND	2,000	120.00/M	1206PC333KAT1A
	X7R	250V	39000pF	±10	478-3981-1-ND	19.80	117.00	337.50	478-3981-2-ND	2,000	324.00/M	1206PC393KAT1A
	X7R	250V	47000pF	±10	478-5558-1-ND	3.96	33.00	110.00	478-5558-2-ND	2,000	132.00/M	1206PC473KAT1A
	X7R	250V	56000pF	±10	478-5559-1-ND	3.96	33.00	110.00	478-5559-2-ND	2,000	132.00/M	1206PC563KAT1A
1210	X7R	250V	1000pF	±10	478-5561-1-ND	4.14	34.50	115.00	478-5561-2-ND	2,000	138.00/M	1210PC102KAT1A
	X7R	250V	4700pF	±10	478-5564-1-ND	4.14	34.50	115.00	478-5564-2-ND	2,000	138.00/M	1210PC472KAT1A
	X7R	250V	10000pF	±10	478-5562-1-ND	4.14	34.50	115.00	478-5562-2-ND	2,000	138.00/M	1210PC103KAT1A
	X7R	250V	33000pF	±10	478-5563-1-ND	4.14	34.50	115.00	478-5563-2-ND	2,000	138.00/M	1210PC333KAT1A
	X7R	250V	47000pF	±10	478-5565-1-ND	4.50	37.50	125.00	478-5565-2-ND	2,000	150.00/M	1210PC473KAT1A
	X7R	250V	68000pF	±10	478-5566-1-ND	4.50	37.50	125.00	478-5566-2-ND	2,000	150.00/M	1210PC683KAT1A
	X7R	250V	.10µF	±10	478-3982-1-ND	8.80	52.00	150.00	478-3982-2-ND	2,000	144.00/M	1210PC104KAT1A
1808	X7R	250V	.10µF	±10	478-3983-1-ND	30.80	182.00	525.00	478-3983-2-ND	2,000	504.00/M	1808PC104KAT1A
	X7R	250V	.22µF	±10	478-3984-1-ND	30.80	182.00	525.00	478-3984-2-ND	2,000	504.00/M	1808PC224KAT1A
1812	X7R	250V	1000pF	±10	478-5606-1-ND	4.50	37.50	125.00	478-5606-2-ND	1,000	180.00	1812PC102KAT1A
	X7R	250V	2200pF	±10	478-5570-1-ND	4.50	37.50	125.00	478-5570-2-ND	1,000	180.00	1812PC222KAT1A
	X7R	250V	27000pF	±10	478-5571-1-ND	4.50	37.50	125.00	478-5571-2-ND	1,000	180.00	1812PC273KAT1A
	X7R	250V	33000pF	±10	478-5573-1-ND	5.04	42.00	140.00	478-5573-2-ND	1,000	202.00	1812PC333KAT1A
	X7R	250V	.10µF	±10	478-3985-1-ND	33.00	195.00	562.50	478-3985-2-ND	1,000	540.00	1812PC104KAT1A
	X7R	250V	.12µF	±10	478-5567-1-ND	5.22	45.60	180.00	478-5567-2-ND	1,000	216.00	1812PC124KAT1A
	X7R	250V	.15µF	±10	478-5568-1-ND	5.22	45.60	180.00	478-5568-2-ND	1,000	216.00	1812PC154KAT1A
	X7R	250V	.18µF	±10	478-5569-1-ND	5.22	45.60	180.00	478-5569-2-ND	1,000	216.00	1812PC184KAT1A

(Continued)

AVX Tip and Ring Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1812	X7R	250V	.22µF	±10	478-3986-1-ND	26.40	156.00	450.00	478-3986-2-ND	1,000	432.00	1812PC224KAT1A
	X7R	250V	.27µF	±10	478-5572-1-ND	4.87	42.56	168.00	478-5572-2-ND	1,000	202.00	1812PC274KAT1A
	X7R	250V	.33µF	±10	478-3987-1-ND	33.00	195.00	562.50	478-3987-2-ND	1,000	540.00	1812PC334KAT1A
	X7R	250V	.47µF	±10	478-3988-1-ND	33.00	195.00	562.50	478-3988-2-ND	1,000	540.00	1812PC474KAT1A
1825	X7R	250V	.33µF	±10	478-5574-1-ND	6.09	53.20	210.00	478-5574-2-ND	1,000	252.00	1825PC334KAT1A
	X7R	250V	.47µF	±10	478-3990-1-ND	42.90	253.50	731.25	478-3990-2-ND	1,000	702.00	1825PC474KAT1A
	X7R	250V	.56µF	±10	478-3991-1-ND	42.90	253.50	731.25	478-3991-2-ND	1,000	702.00	1825PC564KAT1A
	X7R	250V	.68µF	±10	478-5575-1-ND	6.96	60.80	240.00	478-5575-2-ND	1,000	288.00	1825PC684KAT1A
	X7R	250V	.82µF	±10	478-5576-1-ND	7.31	63.84	252.00	478-5576-2-ND	1,000	302.00	1825PC824KAT1A
	X7R	250V	1.0µF	±10	478-3989-1-ND	42.90	253.50	731.25	478-3989-2-ND	1,000	702.00	1825PC105KAT1A
2220	X7R	250V	.47µF	±10	478-3992-1-ND	81.40	481.00	1387.50	478-3992-2-ND	1,000	1332.00	2220PC474KAT1A
	X7R	250V	1.0µF	±10	478-4740-1-ND	71.50	422.50	1218.75	478-4740-2-ND	1,000	1170.00	2220PC105KAT1A
2225	X7R	250V	.47µF	±10	478-5578-1-ND	9.05	79.04	312.00	478-5578-2-ND	1,000	374.00	2225PC474KAT1A
	X7R	250V	.56µF	±10	478-5579-1-ND	9.05	79.04	312.00	478-5579-2-ND	1,000	374.00	2225PC564KAT1A
	X7R	250V	1.0µF	±10	478-3993-1-ND	49.50	292.50	843.75	478-3993-2-ND	1,000	810.00	2225PC105KAT1A
	X7R	250V	1.2µF	±10	478-3994-1-ND	81.40	481.00	1387.50	478-3994-2-ND	1,000	1332.00	2225PC125KAT1A
	X7R	250V	1.0µF	±20	478-4718-1-ND	44.00	260.00	750.00	478-4718-2-ND	1,000	720.00	2225PC105MAT1A
	X7R	250V	1.2µF	±20	478-5577-1-ND	9.57	83.60	330.00	478-5577-2-ND	1,000	396.00	2225PC125MAT1A

LD Series Multilayer Ceramic Chip Capacitors

C0G (NP0) Dielectric: • EIA class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Operating temperature range: -55°C ~ 125°C • Capacitance change with temperature is 0 ±30ppm/°C which is less than ±0.3% Δ C from -55°C ~ 125°C
X7R Dielectric: • X7R formulations are called "temperature stable" ceramics and fall into EIA class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C
X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

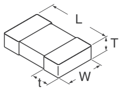

Size Code	Dimensions — mm L	W	T	t
0402	1.00 ±0.10	0.50 ±0.10	0.56 Max.	0.25 ±0.15
0603	1.60 ±0.15	0.81 ±0.15	0.9 Max.	0.35 ±0.15
0805	2.01 ±0.20	1.25 ±0.20	0.94 Max.	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.94 Max.	0.50 ±0.25

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0402	C0G (NP0)	50	100pF	±5	478-5789-1-ND◆ ***NEW!***	1.10	.65	.38	478-5789-2-ND◆ ***NEW!***	10,000	180.00/M	LD025A101JAB2A
	X7R	50	1000pF	±10	478-5790-1-ND◆ ***NEW!***	.99	.59	.34	478-5790-2-ND◆ ***NEW!***	10,000	162.00/M	LD025C102KAB2A
	X7R	16	10000pF	±10	478-5791-1-ND◆ ***NEW!***	38.50	22.75	13.13	478-5791-2-ND◆ ***NEW!***	10,000	6300.00/M	LD02YC103KAB2A
	X5R	10	.10µF	±10	478-4926-1-ND	1.60	.95	.55	478-4926-2-ND	10,000	261.00/M	LD02ZD104KAB2A
0603	C0G (NP0)	100	100pF	±1	478-6057-1-ND◆ ***NEW!***	1.43	.85	.49	478-6057-2-ND◆ ***NEW!***	4,000	234.00/M	LD031A101FAB2A
	C0G (NP0)	100	100pF	±5	478-5792-1-ND◆ ***NEW!***	.98	.58	.34	478-5792-2-ND◆ ***NEW!***	4,000	160.00/M	LD031A101JAB2A
	X7R	100	1000pF	±10	478-6058-1-ND◆ ***NEW!***	.94	.56	.32	478-6058-2-ND◆ ***NEW!***	4,000	153.00/M	LD031C102KAB2A
	X7R	100	10000pF	±10	478-4927-1-ND	1.23	.73	.42	478-4927-2-ND	4,000	200.00/M	LD031C103KAB2A
	X7R	50	.10µF	±10	478-5794-1-ND◆ ***NEW!***	2.75	1.63	.94	478-5794-2-ND◆ ***NEW!***	4,000	450.00/M	LD035C104KAB2A
	X7R	25	.10µF	±10	478-5793-1-ND◆ ***NEW!***	1.27	.75	.44	478-5793-2-ND◆ ***NEW!***	4,000	207.00/M	LD033C104KAB2A
	X7R	16	.10µF	±5	478-4928-1-ND	1.27	.75	.44	—	—	—	LD03YC104JAB2A
	X7R	16	.10µF	±10	478-4929-1-ND	1.28	.76	.44	478-4929-2-ND	4,000	209.00/M	LD03YC104KAB2A
0805	X7R	50	10000pF	±5	478-4930-1-ND	1.09	.65	.38	478-4930-2-ND	4,000	178.00/M	LD055C103JAB2A
	X7R	50	10000pF	±10	478-5795-1-ND◆ ***NEW!***	1.01	.60	.35	478-5795-2-ND◆ ***NEW!***	4,000	164.00/M	LD055C103KAB2A
	X7R	50	.10µF	±10	478-4931-1-ND	1.04	.62	.36	478-4931-2-ND	4,000	169.00/M	LD055C104KAB2A
	X7R	10	1.0µF	±10	478-5796-1-ND◆ ***NEW!***	2.31	1.37	.79	478-5796-2-ND◆ ***NEW!***	2,000	378.00/M	LD05ZC105KAB2A
1206	X7R	100	.10µF	±10	478-6059-1-ND◆ ***NEW!***	1.05	.62	.36	478-6059-2-ND◆ ***NEW!***	2,000	171.00/M	LD061C104KAB2A
	X7R	50	.10µF	±10	478-4932-1-ND	1.14	.67	.39	—	—	—	LD065C104KAB2A
	X7R	50	.22µF	±10	478-4933-1-ND	1.38	.82	.47	478-4933-2-ND	4,000	225.00/M	LD065C224KAB2A

◆ ***RoHS Compliant***

Low Inductance Capacitors

The total inductance of a chip capacitor is determined both by its length to width ratio and by the mutual inductance coupling between its electrodes. Thus a 1210 chip size has a lower inductance than a 1206 chip. This design improvement is the basis of AVX's Low Inductance Chip Capacitors (LICC), where the electrodes are terminated on the long side of the chip instead of the short side. The 1206 becomes a 0612, in the same manner, a 0805 becomes a 0508, a 0603 becomes a 0306. This results in a reduction in inductance for the 1nH range found in normal chip capacitors to less tan 0.2nH for LICC's. Their low profile is also ideal for surface mounting (both on the PCB and on the IC package) or inside cavity mounting on the IC itself.
Characteristics: • Operating Temperature Range: X7R: -55°C ~ 125°C, X5R: -55°C ~ 85°C • Temperature Coefficient: ±15% (0VDC) • Dissipation Factor: 10V = 5.0% maximum; 16V = 3.5% maximum; 25V = 3.0% maximum • Insulation Resistance (@ 25°C RVDC): 100,000MΩ minimum or 1,000MΩ per µF whichever is less.

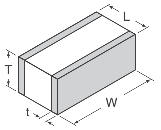

Size Code	Dimensions - Inch (mm) L	W	t
0306	0.032 ±0.006 (0.81 ±0.15)	0.063 ±0.006 (1.60 ±0.15)	0.005 min. (0.13 min.)
0508	0.050 ±0.010 (1.27 ±0.25)	0.080 ±0.010 (2.00 ±0.25)	0.005 min. (0.13 min.)
0612	0.063 ±0.010 (1.60 ±0.25)	0.126 ±0.010 (3.20 ±0.25)	0.005 min. (0.13 min.)

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dimension T Inch (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0306	X7R	25V	10,000pF	±10%	0.024 (0.61)	478-2890-1-ND	24.64	145.60	420.00	478-2890-2-ND	5,000	403.00/M	03063C103KAT2A
	X7R	10V	.10µF	±10%	0.024 (0.61)	478-2891-1-ND	26.95	159.25	459.38	478-2891-2-ND	5,000	441.00/M	0306ZC104KAT2A
	X7R	10V	.22µF	±10%	0.024 (0.61)	478-4936-1-ND	26.95	159.25	459.38	478-4936-2-ND	5,000	441.00/M	0306ZC224KAT2A
	X7R	10V	.22µF	±20%	0.024 (0.61)	478-2893-1-ND	26.95	159.25	459.38	478-2893-2-ND	5,000	441.00/M	0306ZC224MAT2A
0508	X7R	50V	10,000pF	±10%	0.040 (1.02)	478-2894-1-ND	23.10	136.50	393.75	478-2894-2-ND	4,000	378.00/M	05085C103KAT2A
	X7R	50V	10,000pF	±10%	0.030 (0.76)	478-4937-1-ND	23.10	136.50	393.75	—	—	—	05085C103KAT2V
	X7R	50V	10,000pF	±20%	0.040 (1.02)	478-2895-1-ND	22.00	130.00	375.00	478-2895-2-ND	4,000	360.00/M	05085C103MAT2A
	X7R	50V	.10µF	±10%	0.040 (1.02)	478-2897-1-ND	26.40	156.00	450.00	478-2897-2-ND	4,000	432.00/M	05085C104KAT2A
	X7R	50V	.10µF	±20%	0.040 (1.02)	478-2898-1-ND	25.30	149.50	431.25	478-2898-2-ND	4,000	414.00/M	05085C104MAT2A
	X7R	25V	.10µF	±20%	0.040 (1.02)	478-5055-1-ND	3.85	22.75	65.63	478-5055-2-ND	4,000	63.00/M	05083C104MAT2A
	X7R	16V	.10µF	±10%	0.030 (0.76)	478-4935-1-ND	23.10	136.50	393.75	478-4935-2-ND	4,000	378.00/M	0508YC104KAT2V
	X7R	10V	1.0µF	±10%	0.040 (1.02)	478-2899-1-ND	45.10	266.50	768.75	478-2899-2-ND	4,000	738.00/M	0508ZC105KAT2A
0612	X7R	50V	10,000pF	±10%	0.050 (1.27)	478-2900-1-ND	30.80	182.00	525.00	478-2900-2-ND	4,000	504.00/M	06125C103KAT2A
	X7R	50V	.10µF	±20%	0.050 (1.27)	478-2901-1-ND	33.00	195.00	562.50	478-2901-2-ND	4,000	540.00/M	06125C104MAT2A
	X7R	50V	.10µF	±20%	0.040 (1.02)	478-4938-1-ND	33.00	195.00	562.50	478-4938-2-ND	4,000	540.00/M	06125C104MAT2W
	X7R	25V	.22µF	±10%	0.050 (1.27)	478-2902-1-ND	39.60	234.00	675.00	478-2902-2-ND	4,000	648.00/M	06123C224KAT2A
	X7R	25V	.22µF	±10%	0.030 (0.76)	478-4939-1-ND	39.60	234.00	675.00	478-4939-2-ND	4,000	648.00/M	06123C224KAT2V
	X7R	16V	1.0µF	±10%	0.050 (1.27)	478-2903-1-ND	42.90	253.50	731.25	478-2903-2-ND	2,000	702.00/M	0612YC105KAT2A
	X7R	16V	1.0µF	±20%	0.050 (1.27)	478-2904-1-ND	42.90	253.50	731.25	478-2904-2-ND	2,000	702.00/M	0612YC105MAT2A
	X7R	10V	1.0µF	±20%	0.030 (0.76)	478-4934-1-ND	33.00	195.00	562.50	478-4934-2-ND	4,000	540.00/M	0612ZC105MAT2V
	X7R	10V	2.2µF	±10%	0.050 (1.27)	478-2906-1-ND	42.90	253.50	731.25	478-2906-2-ND	2,000	702.00/M	0612ZC225KAT2A
	X5R	10V	1.0µF	±20%	0.050 (1.27)	478-2905-1-ND	33.00	195.00	562.50	478-2905-2-ND	4,000	540.00/M	0612ZD684MAT2V

AVX Low Inductance LGA Capacitors

AVX has introduced a revolutionary capacitor for low inductance applications. Low inductance LGA (land grid array) capacitors have virtually the equivalent high frequency performance of 8-terminal IDC's (Inter-Digitated Capacitors) but are built in a simplified 2-terminal package.

This provides for lower manufacturing cost and easier handling and design. LGA's are ideal for decoupling in semiconductor package-level and board-level applications.

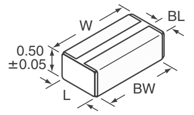

Size Code	WV DC	Cap.	Cap. Tol.	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		AVX Part No.
				L	W	BW	BL		10	100	500	1,000		Qty.	Pricing	
0204	6.3V	.01µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-5503-1-ND	35.20	208.00	600.00	832.00	478-5503-2-ND	4,000	576.00/M	LG126Z103MAT2S1
	6.3V	.022µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-5504-1-ND	35.20	208.00	600.00	832.00	478-5504-2-ND	4,000	576.00/M	LG126Z223MAT2S1
	6.3V	.047µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-5505-1-ND	35.20	208.00	600.00	832.00	478-5505-2-ND	4,000	576.00/M	LG126Z473MAT2S1
	6.3V	.10µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-4624-1-ND	35.20	208.00	600.00	832.00	478-4624-2-ND	10,000	576.00/M	LG126Z104MAT2S1
0306	4V	.22µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4625-1-ND	39.88	235.63	679.69	942.50	478-4625-2-ND	4,000	653.00/M	LG224Z224MAT2S1
	4V	.33µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4626-1-ND	40.15	237.25	684.38	949.00	478-4626-2-ND	4,000	657.00/M	LG224Z334MAT2S1
	4V	.47µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4628-1-ND	42.63	251.88	726.56	1007.50	478-4628-2-ND	4,000	698.00/M	LG224Z474MAT2S1
	6.3V	.01µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4627-1-ND	40.70	240.50	693.75	962.00	478-4627-2-ND	4,000	666.00/M	LG226C103MAT2S1
	6.3V	.10µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4943-1-ND	44.00	260.00	750.00	1040.00	478-4943-2-ND	4,000	720.00/M	LG226D104MAT2S1
	6.3V	.10µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-5506-1-ND	28.60	169.00	487.50	676.00	478-5506-2-ND	4,000	468.00/M	LG226Z104MAT2S1
	6.3V	.22µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4629-1-ND	42.35	250.25	721.88	1001.00	478-4629-2-ND	4,000	693.00/M	LG226D224MAT2S1
	6.3V	.47µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4630-1-ND	42.63	251.88	726.56	1007.50	478-4630-2-ND	4,000	698.00/M	LG226D474MAT2S1

Multi-Layer Ceramic Chip Capacitor Arrays

AVX capacitor arrays offer designers the opportunity to lower placement costs, increase assembly line output through lower component count per board, and to reduce real estate requirements. **C0G (NP0) Dielectric:** • EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Capacitance change with temperature is 0 ±30ppm/°C, which is less than ±0.3% Δ C from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C **X7R Dielectric:** • X7R formulations are called "temperature stable" ceramics and fall into EIA Class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C **X5R Dielectric:** • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

Fig. 1

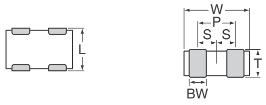

Fig. 2

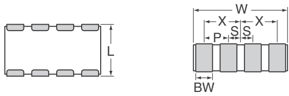

Size Code	Element	Dimensions - Inch (mm)						
		L	W	T (Max.)	BW	P	X	S
0405	2 2	0.039 ±0.006 (1.00 ±0.15)	0.054 ±0.006 (1.37 ±0.15)	0.026 (0.66)	0.014 ±0.004 (0.36 ±0.10)	0.025 REF (0.64 REF)	— —	0.013 ±0.004 (0.32 ±0.10)
0508	4 4	0.051 ±0.006 (1.30 ±0.15)	0.083 ±0.006 (2.10 ±0.15)	0.037 (0.94)	0.010 ±0.003 (0.25 ±0.06)	0.020 REF (0.50 REF)	0.030 ±0.004 (0.75 ±0.10)	0.010 ±0.004 (0.25 ±0.10)
0612	4 4	0.063 ±0.008 (1.60 ±0.20)	0.126 ±0.008 (3.20 ±0.20)	0.053 (1.35)	0.016 ±0.004 (0.41 ±0.10)	0.030 REF (0.76 REF)	0.045 ±0.004 (1.14 ±0.10)	0.015 ±0.004 (0.38 ±0.10)

Fig.	Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	No. of Elements/ Array	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 4,000	AVX Part No.
								10	100	500			
1	0405	X5R	10	.10µF	±20%	2	478-2884-1-ND	6.38	37.70	108.75	478-2884-2-ND	104.00/M	W1A2ZD104MAT2A
2	0508	C0G(NP0)	100	22pF	±10%	4	478-2888-1-ND	6.60	39.00	112.50	478-2888-2-ND	108.00/M	W2A41A220KAT2A
	0508	C0G(NP0)	100	100pF	±10%	4	478-2885-1-ND	6.60	39.00	112.50	478-2885-2-ND	108.00/M	W2A41A101KAT2A
	0508	X7R	10	.10µF	±20%	4	478-2870-1-ND	6.60	39.00	112.50	478-2870-2-ND	108.00/M	W2A4ZC104MAT2A
	0508	X7R	50	10,000pF	±20%	4	478-2873-1-ND	5.39	31.85	91.88	478-2873-2-ND	88.00/M	W2A45C103MAT2A
	0508	X7R	50	10,000pF	±10%	4	478-2878-1-ND	6.71	39.65	114.38	478-2878-2-ND	110.00/M	W2A45C103KAT2A
	0508	X5R	10	.10µF	±20%	4	478-2883-1-ND	6.82	40.30	116.25	478-2883-2-ND	112.00/M	W2A4ZD104MAT2A
	0508	X5R	10	.10µF	±10%	4	478-2875-1-ND	7.15	42.25	121.88	478-2875-2-ND	117.00/M	W2A4ZD104KAT2A
	0612	C0G(NP0)	100	22pF	±10%	4	478-2881-1-ND	4.73	27.95	80.63	478-2881-2-ND	77.00/M	W3A41A220KAT2A
	0612	C0G(NP0)	100	47pF	±10%	4	478-2872-1-ND	4.73	27.95	80.63	478-2872-2-ND	77.00/M	W3A41A470KAT2A
	0612	C0G(NP0)	100	100pF	±10%	4	478-2876-1-ND	5.72	33.80	97.50	478-2876-2-ND	94.00/M	W3A41A101KAT2A
	0612	C0G(NP0)	100	220pF	±10%	4	478-2882-1-ND	4.95	29.25	84.38	478-2882-2-ND	81.00/M	W3A41A221KAT2A
	0612	X7R	16	.10µF	±20%	4	478-2869-1-ND	7.70	45.50	131.25	478-2869-2-ND	126.00/M	W3A4YC104MAT2A
	0612	X7R	16	.10µF	±10%	4	478-2879-1-ND	7.70	45.50	131.25	478-2879-2-ND	126.00/M	W3A4YC104KAT2A
	0612	X7R	50	10,000pF	±10%	4	478-2877-1-ND	6.60	39.00	112.50	478-2877-2-ND	108.00/M	W3A45C103KAT2A
	0612	X7R	50	10,000pF	±20%	4	478-5874-1-ND ***NEW!***	3.85	22.75	65.63	478-5874-2-ND ***NEW!***	63.00/M	W3A45C103MAT2A
	0612	X7R	100	1,000pF	±20%	4	478-2874-1-ND	5.72	33.80	97.50	478-2874-2-ND	94.00/M	W3A41C102MAT2A
	0612	X7R	100	10,000pF	±20%	4	478-2871-1-ND	4.95	29.25	84.38	478-2871-2-ND	81.00/M	W3A41C103MAT2A

JOHANSON DIELECTRICS

X2Y® Filter and Decoupling Capacitors

X2Y filter capacitors employ a unique, patented low inductance design featuring two balanced capacitors that are immune to temperature, voltage and aging performance differences. These components offer superior decoupling and EMI filtering performance.

Applications:
- FPGA/ASIC/µ-P Decoupling
- DDR Memory Decoupling
- Amplifier Filter and Decoupling
- High Speed Data Filtering
- Cellular Handsets

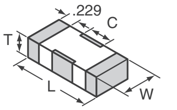

Physical Characteristics — Dimensions in mm			
Series	**L**	**W**	**C**
0402	1.143 ±0.076	0.610 ±0.076	0.305 ±0.076
0603	1.626 ±0.127	0.889 ±0.127	0.457 ±0.102
0805	2.032 ±0.203	1.270 ±0.203	0.559 ±0.127
1206	3.150 ±0.254	1.600 ±0.254	1.016 ±0.127
1210	3.175 ±0.254	2.489 ±0.254	1.143 ±0.127
1410	3.556 ±0.254	2.490 ±0.254	1.143 ±0.127
1812	4.420 ±0.254	3.175 ±0.254	1.143 ±0.127

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel†		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
0402 Series — NP0 Type									
50	1.8pF	±0.5pF	0.508	709-1209-1-ND▲	11.00	65.00	4,000	180.00/M	500X07N1R8DV4T
50	5.6pF	±0.25pF	0.508	709-1210-1-ND▲	11.00	65.00	4,000	180.00/M	500X07N5R6DV4T
50	10pF	±20%	0.508	709-1211-1-ND▲	7.15	42.25	4,000	117.00/M	500X07N100MV4T
50	22pF	±20%	0.508	709-1212-1-ND▲	7.15	42.25	4,000	117.00/M	500X07N220MV4T
50	47pF	±20%	0.508	709-1213-1-ND▲	7.92	46.80	4,000	129.60/M	500X07N470MV4T
50	100pF	±20%	0.508	709-1214-1-ND▲	8.69	51.35	4,000	142.20/M	500X07N101MV4T
0402 Series — X7R Type									
50	470pF	±20%	0.508	709-1215-1-ND▲	5.72	33.80	4,000	93.60/M	500X07W471MV4T
50	1,000pF	±20%	0.508	709-1216-1-ND▲	5.72	33.80	4,000	93.60/M	500X07W102MV4T
50	1,500pF	±20%	0.508	709-1217-1-ND▲	5.82	34.39	4,000	95.22/M	500X07W152MV4T
50	2,200pF	±20%	0.508	709-1218-1-ND▲	6.06	35.82	4,000	99.18/M	500X07W222MV4T
50	4,700pF	±20%	0.508	709-1219-1-ND▲	6.39	37.77	4,000	104.58/M	500X07W472MV4T
16	10,000pF	±20%	0.508	709-1220-1-ND▲	7.07	41.80	4,000	115.74/M	160X07W103MV4T
0603 Series — NP0 Type									
50	5.6pF	±20%	0.660	709-1000-1-ND	4.95	29.25	4,000	81.00/M	500X14N5R6DV4T
50	10pF	±20%	0.660	709-1001-1-ND	4.95	29.25	4,000	81.00/M	500X14N100MV4T
50	22pF	±20%	0.660	709-1002-1-ND	4.95	29.25	4,000	81.00/M	500X14N220MV4T
50	47pF	±20%	0.660	709-1003-1-ND	4.95	29.25	4,000	81.00/M	500X14N470MV4T
50	100pF	±20%	0.660	709-1004-1-ND‡	4.95	29.25	4,000	81.00/M	500X14N101MV4T
100	1.0pF	±0.5pF	0.660	709-1199-1-ND‡	5.05	29.84	4,000	82.62/M	101X14N1R0DV4T
100	10pF	±20%	0.660	709-1198-1-ND‡	5.15	30.42	4,000	84.24/M	101X14N100MV4T
100	22pF	±20%	0.660	709-1200-1-ND‡	5.15	30.42	4,000	84.24/M	101X14N220MV4T
100	33pF	±20%	0.660	709-1201-1-ND‡	5.15	30.42	4,000	84.24/M	101X14N330MV4T
100	47pF	±20%	0.660	709-1202-1-ND‡	5.39	31.85	4,000	88.20/M	101X14N470MV4T
100	5.6pF	±0.5pF	0.660	709-1203-1-ND‡	5.05	29.84	4,000	82.62/M	101X14N5R6DV4T
NEW! 0603 Series — X5R Type NEW!									
10	.33µF	±20%	0.660	709-1332-1-ND§	9.68	57.20	4,000	158.40/M	100X14X334MV4T
10	.47µF	±20%	0.660	709-1333-1-ND§	10.12	59.80	4,000	165.60/M	100X14X474MV4T
10	1.0µF	±20%	0.660	709-1334-1-ND§	11.55	68.25	4,000	189.00/M	100X14X105MV4T
16	.22µF	±20%	0.660	709-1331-1-ND§	9.24	54.60	4,000	151.20/M	160X14X224MV4T
0603 Series — X7R Type									
6.3	.1µF	±20%	0.660	709-1009-1-ND	7.39	43.68	4,000	120.96/M	6R3X14W104MV4T
6.3	.22µF	±20%	0.660	709-1104-1-ND	6.93	40.95	4,000	113.40/M	6R3X14W224MV4T
10	.1µF	±20%	0.660	709-1101-1-ND§	7.39	43.68	4,000	120.96/M	100X14W104MV4T
16	47,000pF	±20%	0.660	709-1088-1-ND§	8.23	48.61	4,000	134.61/M	160X14W471MV4T
25	22,000pF	±20%	0.660	709-1087-1-ND§	6.58	38.88	4,000	107.68/M	250X14W223MV4T
50	470pF	±20%	0.660	709-1085-1-ND	4.77	28.19	4,000	78.07/M	500X14W471MV4T
50	1,000pF	±20%	0.660	709-1005-1-ND	4.40	26.00	4,000	72.00/M	500X14W102MV4T
50	1,500pF	±20%	0.660	709-1006-1-ND	4.77	28.21	4,000	78.12/M	500X14W152MV4T
50	2,200pF	±20%	0.660	709-1086-1-ND	5.10	30.13	4,000	83.45/M	500X14W222MV4T
50	4,700pF	±20%	0.660	709-1007-1-ND	4.93	29.12	4,000	80.64/M	500X14W472MV4T
50	10,000pF	±20%	0.660	709-1008-1-ND‡§	5.89	34.78	4,000	96.30/M	500X14W103MV4T
100	1,000pF	±20%	0.660	709-1204-1-ND‡§	5.05	29.84	4,000	82.62/M	101X14W102MV4T
100	1,500pF	±20%	0.660	709-1205-1-ND‡§	5.05	29.84	4,000	82.62/M	101X14W152MV4T
100	220pF	±20%	0.660	709-1206-1-ND‡	4.84	28.60	4,000	79.20/M	101X14W221MV4T
100	2,200pF	±20%	0.660	709-1207-1-ND‡§	5.21	30.81	4,000	85.32/M	101X14W222MV4T
100	470pF	±20%	0.660	709-1208-1-ND‡	4.84	28.60	4,000	79.20/M	101X14W471MV4T
100	4,700pF	±20%	0.660	709-1105-1-ND‡§	4.93	29.12	4,000	80.64/M	101X14W472MV4T

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel†		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
NEW! 0805 Series — NP0 Type NEW!									
100	22pF	±20%	1.02	709-1336-1-ND◊	6.57	38.81	4,000	107.46/M	101X15N220MV4E
100	47pF	±20%	1.02	709-1337-1-ND◊	6.95	41.08	4,000	113.76/M	101X15N470MV4E
100	100pF	±20%	1.02	709-1338-1-ND◊	7.47	44.14	4,000	122.22/M	101X15N101MV4E
0805 Series — X7R Type									
10	.18µF	±20%	1.016	709-1106-1-ND◊	12.65	74.75	4,000	207.00/M	100X15W184MV4E
25	.1µF	±20%	1.02	709-1330-1-ND✔◊	13.20	78.00	4,000	216.00/M	250X15W104MV4E
50	1,000pF	±20%	1.016	709-1010-1-ND	9.26	54.73	4,000	151.56/M	500X15W102MV4E
50	10,000pF	±20%	1.016	709-1011-1-ND	6.05	35.75	4,000	99.00/M	500X15W103MV4E
50	47,000pF	±20%	1.016	709-1012-1-ND◊Δ	20.79	122.85	4,000	340.20/M	500X15W473MV4E
50	.015µF	±20%	1.02	709-1340-1-ND✔◊	9.36	55.32	4,000	153.18/M	500X15W153MV4E
50	.022µF	±20%	1.02	709-1341-1-ND✔◊	11.88	70.20	4,000	194.40/M	500X15W223MV4E
100	1,000pF	±20%	1.02	709-1335-1-ND✔◊	7.70	45.50	4,000	126.00/M	101X15W102MV4E
100	2,200pF	±20%	1.02	709-1339-1-ND✔◊	9.26	54.73	4,000	151.56/M	101X15W222MV4E
100	4,700pF	±20%	1.02	709-1322-1-ND✔◊	7.48	44.20	4,000	122.40/M	101X15W472MV4E
100	10,000pF	±20%	1.02	709-1325-1-ND✔◊Δ	7.81	46.15	4,000	127.80/M	101X15W103MV4E
1206 Series — NP0 Type									
50	1,000pF	±20%	1.270	709-1107-1-ND	12.36	73.01	3,000	202.18/M	500X18N102MV4E
100	1,000pF	±20%	1.270	709-1321-1-ND✔	13.09	77.35	3,000	214.20/M	101X18N102MV4E
1206 Series — X7R Type									
10	.47µF	±20%	1.270	709-1103-1-ND	13.63	80.55	3,000	223.08/M	100X18W474MV4E
16	.22µF	±20%	1.270	709-1102-1-ND	11.38	67.23	3,000	186.18/M	160X18W224MV4E
50	.1µF	±20%	1.270	709-1013-1-ND	20.79	122.85	3,000	340.20/M	500X18W104MV4E
100	10,000pF	±20%	1.270	709-1323-1-ND✔	12.10	71.50	3,000	198.00/M	101X18W103MV4E
100	.022µF	±20%	1.270	709-1327-1-ND✔	12.10	71.50	3,000	198.00/M	101X18W223MV4E
100	.047µF	±20%	1.270	709-1329-1-ND✔Δ	13.64	80.60	3,000	223.20/M	101X18W473MV4E
100	.1µF	±20%	1.270	709-1342-1-ND✔Δ	13.20	78.00	3,000	216.00/M	101X18W104MV4E
1210 Series — X7R Type									
16	1.0µF	±20%	1.778	709-1108-1-ND	13.75	81.25	2,000	225.00/M	160X41W105MV4E
100	.22µF	±20%	1.778	709-1014-1-ND✔Δ	32.01	189.15	2,000	523.80/M	101X41W224MV4E
100	.33µF	±20%	1.78	709-1343-1-ND✔Δ	27.50	162.50	2,000	450.00/M	101X41W334MV4E
500	10,000pF	±20%	1.78	709-1324-1-ND✔Δ	26.73	157.95	2,000	437.40/M	501X41W103MV4E
1410 Series — X7R Type									
50	.40µF	±20%	1.778	709-1017-1-ND	27.50	162.50	2,000	450.00/M	500X44W404MV4E
100	.40µF	±20%	1.778	709-1244-1-ND✔Δ	37.40	221.00	2,000	612.00/M	101X44W404MF4E
100	.40µF	±20%	1.778	709-1245-1-ND✔	37.40	221.00	2,000	612.00/M	101X44W404MV4E
500	.015µF	±20%	1.78	709-1326-1-ND✔Δ	29.70	175.50	2,000	486.00/M	501X44W153MF4E
1812 Series — X7R Type									
50	.47µF	±20%	2.286	709-1016-1-ND	44.00	260.00	1,000	720.00	500X43W474MV4E
100	.47µF	±20%	2.286	709-1242-1-ND✔Δ	44.00	260.00	1,000	720.00	101X43W474MF4E
100	.47µF	±20%	2.286	709-1243-1-ND✔	44.00	260.00	1,000	720.00	101X43W474MV4E
500	.039µF	±20%	2.29	709-1328-1-ND✔Δ	37.51	221.65	1,000	613.80	501X43W393MF4E

✔ ***NEW!*** † For Tape and Reel part number, change -1-ND to -2-ND.

Kits

▲	**709-1196-ND**	(S-X07CBK)	X2Y 0402 Series Cellular Filter Kit	**$79.98**
‡	**709-1197-ND**	(S-X14CBK)	X2Y 0603 Series Cellular Buzz Kill Filter Kit	**$79.98**
§	**709-1344-ND**	(S-X14-PBP)	***NEW!*** X2Y 0603 Series Power Bypass Kit	**$79.98**
◊	**709-1345-ND**	(S-X15-EMI)	***NEW!*** X2Y 0805 Series EMI Filter Kit	**$79.98**
Δ	**709-1346-ND**	(S-X2Y-MTR)	***NEW!*** X2Y JDI DC Motor Filter Kit	**$79.98**

MLCC Capacitors

General Purpose, High Voltage and TANCERAM®

High Voltage Applications:
- Analog and Digital Modems • Lighting Ballast Circuits • Voltage Multipliers • DC-DC Converters • LAN/WAN Interface • Back-lighting Inverters

TANCERAM Applications:
- Switching Power Supply Smoothing (Input/Output) • DC/DC Converter Smoothing (Input/Output) • Backlighting Inverters • General Digital Circuits

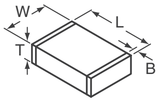

Physical Characteristics — Dimensions in mm			
Series	**L**	**W**	**B**
0402	1.02 ±.10	0.51 ±.10	0.20 ±.10
0603	1.60 ±.20	0.81 ±.20	0.25 ±.13
0805	2.03 ±.25	1.27 ±.25	0.51 ±.25
1206	3.17 ±.25	1.57 ±.25	0.51 ±.25
1210	3.18 ±.25	2.41 ±.25	0.51 ±.25
1808	4.57 ±.25	2.03 ±.25	0.51 ±.25
1812	4.57 ±.25	3.17 ±.25	0.64 ±.38
1825	4.57 ±.25	6.35 ±.25	0.64 ±.38
2225	5.72 ±.25	6.48 ±.38	0.64 ±.38

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel★		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
High Voltage									
0805 Series — NP0 Type									
500	100pF	±5%	1.40	709-1271-1-ND✔	1.39	8.19	4,000	22.68/M	501R15N101JV4T
500	100pF	±10%	1.27	709-1019-1-ND	1.39	8.19	4,000	22.68/M	501R15N101KV4T
1,000	47pF	±10%	1.40	709-1287-1-ND✔☆	4.52	26.72	3,000	73.98/M	102R15N470KV4E
0805 Series — X7R Type									
250	22,000pF	±10%	1.27	709-1018-1-ND†	1.94	11.44	3,000	31.68/M	251R15W223KV4E
500	1,000pF	±10%	1.27	709-1020-1-ND✣	1.43	8.45	3,000	23.40/M	501R15W102KV4E
500	10,000pF	±10%	1.27	709-1021-1-ND✣	2.53	14.95	3,000	41.40/M	501R15W103KV4E
1,000	1,000pF	±10%	1.40	709-1288-1-ND✔☆	2.09	12.35	3,000	34.20/M	102R15W102KV4E
1,000	1,000pF	±10%	1.40	709-1317-1-ND✔Δ✿	6.82	40.33	3,000	111.68/M	102R15W102KF4E
1206 Series —NP0 Type									
500	33pF	±5%	1.70	709-1272-1-ND✔✣	3.51	20.74	3,000	57.42/M	501R18N330JV4E
500	47pF	±10%	1.70	709-1273-1-ND✔✣	1.87	11.05	3,000	30.60/M	501R18N470KV4E
500	100pF	±10%	1.70	709-1022-1-ND✣	2.49	14.69	3,000	40.68/M	501R18N101JV4E
500	150pF	±5%	1.70	709-1274-1-ND✔✣	2.31	13.65	3,000	37.80/M	501R18N151JV4E

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel★		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
500	220pF	±5%	1.70	709-1023-1-ND	2.35	13.91	3,000	38.52/M	501R18N221JV4E
500	330pF	±5%	1.70	709-1275-1-ND✔✣	4.60	27.17	3,000	75.24/M	501R18N331JV4E
500	470pF	±5%	1.70	709-1024-1-ND	2.53	14.95	3,000	41.40/M	501R18N471JV4E
500	560pF	±5%	1.70	709-1276-1-ND✔✣	5.17	30.55	3,000	84.60/M	501R18N561JV4E
500	1,000pF	±5%	1.70	709-1277-1-ND✔✣	7.40	43.75	3,000	121.14/M	501R18N102JV4E
500	1,200pF	±10%	1.70	709-1278-1-ND✔✣	3.60	21.26	3,000	58.86/M	501R18N122KV4E
1,000	22pF	±5%	1.70	709-1289-1-ND✔☆	4.14	24.44	3,000	67.68/M	102R18N220JV4E
1,000	47pF	±5%	1,70	709-1290-1-ND✔☆	5.14	30.36	3,000	84.06/M	102R18N470JV4E
1,000	100pF	±5%	1.70	709-1291-1-ND✔☆	7.76	45.83	3,000	126.90/M	102R18N101JV4E
1,000	150pF	±5%	1.70	709-1292-1-ND✔☆	5.17	30.55	3,000	84.60/M	102R18N151JV4E
1,000	330pF	±5%	1.70	709-1293-1-ND✔☆	7.66	45.24	3,000	125.28/M	102R18N331JV4E
2,000	22pF	±10%	1.70	709-1302-1-ND✔✻	4.55	26.91	3,000	74.52/M	202R18N220KV4E
2,000	33pF	±5%	1.70	709-1303-1-ND✔✻	5.35	31.59	3,000	87.48/M	202R18N330JV4E

† Tip and Ring Chip Δ PolyTerm® Termination
✔ ***NEW!*** ★ For Tape and Reel part number, change -1-ND to -2-ND.

(Continued)

MLCC Capacitors
General Purpose, High Voltage and TANCERAM® *(Cont.)*

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel★		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
2,000	47pF	±5%	1.70	709-1304-1-ND✔✻	6.62	39.13	3,000	108.36/M	202R18N470JV4E
2,000	68pF	±10%	1.70	709-1305-1-ND✔✻	6.80	40.17	3,000	111.24/M	202R18N680KV4E
2,000	100pF	±5%	1.70	709-1033-1-ND✻	3.74	22.10	3,000	61.20/M	202R18N101JV4E
2,000	220pF	±5%	1.70	709-1034-1-ND✻	3.19	18.85	3,000	52.20/M	202R18N221JV4E
1206 Series — X7R Type									
500	220pF	±10%	1.70	709-1279-1-ND✔✣	1.98	11.70	3,000	32.40/M	501R18W221KV4E
500	330pF	±10%	1.70	709-1280-1-ND✔✣	2.09	12.35	3,000	34.20/M	501R18W331KV4E
500	470pF	±10%	1.70	709-1281-1-ND✔✣	2.09	12.35	3,000	34.20/M	501R18W471KV4E
500	680pF	±10%	1.70	709-1282-1-ND✔✣	2.31	13.65	3,000	37.80/M	501R18W681KV4E
500	1,000pF	±10%	1.70	709-1025-1-ND✣	2.27	13.39	3,000	37.08/M	501R18W102KV4E
500	2,200pF	±10%	1.70	709-1283-1-ND✔✣	3.22	19.05	3,000	52.74/M	501R18W222KV4E
500	10,000pF	±10%	1.70	709-1027-1-ND✣	2.53	14.95	3,000	41.40/M	501R18W103KV4E
500	22,000pF	±10%	1.70	709-1028-1-ND	3.08	18.20	—	—	501R18W223KV4E
1,000	100pF	±10%	1.70	709-1294-1-ND✔☆	1.98	11.70	3,000	32.40/M	102R18W101KV4E
1,000	1,000pF	±10%	1.70	709-1029-1-ND☆	2.16	12.74	3,000	35.28/M	102R18W102KV4E
1,000	2,200pF	±10%	1.70	709-1030-1-ND☆	2.84	16.77	3,000	46.44/M	102R18W222KV4E
1,000	4,700pF	±10%	1.70	709-1031-1-ND☆	3.34	19.76	3,000	54.72/M	102R18W472KV4E
2,000	100pF	±10%	1.70	709-1311-1-ND✔Δ✿	26.45	156.31	3,000	432.87/M	202R18W101KF4E
2,000	470pF	±10%	1.70	709-1035-1-ND✻	2.22	13.13	3,000	36.36/M	202R18W471KV4E
2,000	1,000pF	±10%	1.70	709-1036-1-ND✻	2.76	16.32	3,000	45.18/M	202R18W102KV4E
2,000	1,000pF	±10%	1.70	709-1319-1-ND✔Δ✿	12.73	75.21	3,000	208.26/M	202R18W102KF4E
1210 Series — NP0 Type									
1,000	680pF	±10%	1.65	709-1038-1-ND	4.07	25.52	—	—	102S41N681KV4E
1210 Series — X7R Type									
500	47,000pF	±10%	1.65	709-1037-1-ND	9.59	56.68	2,000	156.96/M	501S41W473KV4E
1,000	10,000pF	±10%	1.65	709-1039-1-ND☆	10.34	61.10	2,000	169.20/M	102S41W103KV4E
2,000	1,000pF	±10%	1.65	709-1040-1-ND✻	5.14	30.36	2,000	84.06/M	202S41W102KV4E
2,000	2,200pF	±10%	2.03	709-1307-1-ND✔✻	5.14	30.36	2,000	84.06/M	202S41W222KV4E
2,000	2,700pF	±10%	1.65	709-1041-1-ND	8.26	48.82	2,000	135.18/M	202S41W272KV4E
1808 Series — NP0 Type									
1,000	47pF	±10%	2.16	709-1295-1-ND✔☆	5.69	33.61	2,000	93.06/M	102R29N470KV4E
2,000	470pF	±10%	2.03	709-1043-1-ND	17.26	101.99	2,000	282.42/M	202R29N471KV4E
3,000	330pF	±10%	2.03	709-1044-1-ND	13.20	78.00	2,000	216.00/M	302R29N331KV4E
1808 Series — X7R Type									
500	.047µF	±10%	2.16	709-1284-1-ND✔✣	4.33	25.61	2,000	70.92/M	501R29W473KV4E
1,000	1,000pF	±10%	2.16	709-1296-1-ND✔☆	8.37	49.47	2,000	136.98/M	102R29W102KV4E
1,000	10,000pF	±10%	2.16	709-1297-1-ND✔☆	15.39	90.94	2,000	251.82/M	102R29W103KV4E
1,000	.018µF	±10%	2.16	709-1298-1-ND✔☆	21.40	126.43	2,000	350.10/M	102R29W183KV4E
2,000	150pF	±10%	2.03	709-1042-1-ND	4.86	28.73	2,000	79.56/M	202R29W151KV4E
2,000	470pF	±10%	2.03	709-1045-1-ND✻	5.16	30.49	2,000	84.42/M	202R29W471KV4E
2,000	1,000pF	±10%	2.03	709-1046-1-ND✻	5.50	32.50	2,000	90.00/M	202R29W102KV4E
2,000	2,200pF	±10%	2.16	709-1306-1-ND✔✻	9.79	57.85	2,000	160.20/M	202R29W222KV4E
3,000	1,000pF	±10%	2.03	709-1047-1-ND	7.13	42.12	2,000	116.64/M	302R29W102KV4E
NEW! 1812 Series — NPO Type NEW!									
500	4,700pF	±10%	2.80	709-1285-1-ND✣	23.16	136.83	1,000	378.90	501S43N472KV4E
1812 Series — X7R Type									
500	.047µF	±10%	2.80	709-1286-1-ND✔✣	10.56	62.37	1,000	172.73	501S43W473KV4E
500	.1µF	±10%	2.80	709-1049-1-ND✣	18.55	109.59	500	185.46	501S43W104KV4E
500	22,000pF	±10%	2.80	709-1050-1-ND	10.96	64.74	1,000	179.28	501S43W223KV4E
1,000	1,000pF	±10%	2.80	709-1299-1-ND✔☆	10.64	62.86	1,000	174.06	102S43W102KV4E
1,000	10,000pF	±10%	2.80	709-1057-1-ND	11.23	66.37	1,000	183.78	102S43W103KV4E
1,000	.01µF	±20%	2.80	709-1300-1-ND✔☆	11.23	66.37	1,000	183.78	102S43W103MV4E
1,000	.047µF	±10%	2.80	709-1301-1-ND✔☆	30.10	177.84	500	300.96	102S43W473KV4E
2,000	470pF	±10%	2.80	709-1052-1-ND✻	8.21	48.51	1,000	134.33	202S43W471KV4E
2,000	470pF	±10%	2.80	709-1318-1-ND✔Δ✿	39.14	231.27	1,000	640.44	202S43W471KF4E
2,000	1,000pF	±10%	2.80	709-1053-1-ND✻	8.98	53.04	1,000	146.88	202S43W102KV4E
2,000	3,300pF	±10%	2.80	709-1054-1-ND✻	11.19	66.11	1,000	183.06	202S43W332KV4E
2,000	4,700pF	±10%	2.80	709-1308-1-ND✔✻	11.27	66.57	1,000	184.36	202S43W472KV4E
2,000	6,800pF	±10%	2.80	709-1309-1-ND✔✻	19.40	114.66	1,000	317.52	202S43W682KV4E
3,000	150pF	±10%	2.80	709-1051-1-ND	4.30	26.94	—	—	302S43W151KV4E
3,000	1,000pF	±10%	2.80	709-1055-1-ND	9.44	55.77	1,000	154.44	302S43W102KV4E
3,000	1,000pF	±10%	2.80	709-1320-1-ND✔Δ ✿	52.76	311.74	1,000	863.28	302S43W102KF4E
3,000	3,300pF	±10%	2.80	709-1056-1-ND	14.19	83.85	500	141.90	302S43W332KV4E
1825 Series — X7R Type									
250	1µF	±10%	3.55	709-1048-1-ND†	49.28	291.20	500	492.80	251S49W105KV4E
2225 Series — X7R Type									
1,000	.1µF	±10%	3.81	709-1059-1-ND☆	76.23	450.45	500	762.30	102S48W104KV4E
2,000	10,000pF	±10%	3.81	709-1058-1-ND✻	73.66	435.24	1,000	1205.28	202S48W103KV4E
2,000	.022µF	±10%	4.06	709-1310-1-ND✔✻	109.78	648.70	500	1097.80	202S48W223KV4E

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel★		Johanson Dielectrics Part No.
					10	100	Qty.	Pricing	
TANCERAM®									
0402 Series — X5R Type									
6.3	1µF	±10%	0.64	709-1060-1-ND◊	1.74	10.31	10,000	28.55/M	6R3R07X105KV4T
6.3	.22µF	±10%	0.64	709-1139-1-ND▲	1.58	9.36	10,000	25.92/M	6R3R07X224KV4T
6.3	2.2µF	±20%	0.64	709-1223-1-ND	2.68	15.85	10,000	43.89/M	6R3R07X225MV4T
10	1µF	±10%	0.64	709-1222-1-ND	1.46	8.61	10,000	23.85/M	100R07X105KV4T
0603 Series — X5R Type									
6.3	4.7µF	±10%	0.89	709-1225-1-ND	3.29	19.42	4,000	53.77/M	6R3R14X475KV4T
6.3	4.7µF	±20%	0.89	709-1226-1-ND	2.87	16.98	4,000	47.04/M	6R3R14X475MV4T
6.3	10µF	±20%	0.89	709-1227-1-ND	10.16	60.06	4,000	166.32/M	6R3R14X106MV4T
10	.47µF	±10%	0.89	709-1061-1-ND	2.03	9.46	—	—	100R14X474KV4T
10	1µF	±20%	0.89	709-1062-1-ND	2.25	8.98	—	—	100R14X105MV4T
25	1µF	±10%	0.89	709-1224-1-ND	2.05	12.14	4,000	33.61/M	250R14X105KV4T
0805 Series — X5R Type									
6.3	4.7µF	±10%	1.52	709-1230-1-ND	3.29	19.42	2,000	53.77/M	6R3R15X475KV4E
6.3	10µF	±10%	1.52	709-1065-1-ND◊	9.21	54.42	2,000	150.70/M	6R3R15X106KV4E
6.3	10µF	±20%	1.52	709-1232-1-ND	4.52	26.70	2,000	73.93/M	6R3R15X106MV4E
6.3	22µF	±10%	1.52	709-1066-1-ND	14.85	87.75	2,000	243.00/M	6R3R15X226KV4E
6.3	22µF	±20%	1.52	709-1231-1-ND	9.94	58.73	2,000	162.63/M	6R3R15X226MV4E
10	10µF	±10%	1.52	709-1228-1-ND	4.97	29.36	2,000	81.31/M	100R15X106KV4E
10	2.2µF	±10%	1.52	709-1063-1-ND◊	2.20	13.00	2,000	36.00/M	100R15X225KV4E
10	4.7µF	±10%	1.52	709-1064-1-ND	3.67	22.10	—	—	100R15X475KV4E
16	10µF	±10%	1.52	709-1229-1-ND	8.22	48.58	2,000	134.53/M	160R15X106KV4E
1206 Series — X7R Type									
16	1µF	±10%	1.78	709-1068-1-ND	2.34	13.85	3,000	38.34/M	160R18W105KV4E
16	2.2µF	±10%	1.78	709-1070-1-ND	2.57	13.44	—	—	160R18W225KV4E
25	.33µF	±10%	1.78	709-1067-1-ND	3.30	19.50	3,000	54.00/M	250R18W334KV4E
25	1µF	±10%	1.78	709-1069-1-ND	5.42	32.05	2,000	88.74/M	250R18W105KV4E
1206 Series — X5R Type									
6.3	3.3µF	±10%	1.78	709-1237-1-ND◊	7.39	43.68	2,000	120.96/M	6R3R18X335KV4E
6.3	10µF	±10%	1.78	709-1074-1-ND◊	4.82	28.47	2,000	78.84/M	6R3R18X106KV4E
6.3	22µF	±10%	1.78	709-1238-1-ND◊	11.50	67.94	2,000	188.16/M	6R3R18X226KV4E
6.3	47µF	±20%	1.78	709-1239-1-ND◊	36.14	213.54	2,000	591.36/M	6R3R18X476MV4E
10	10µF	±10%	1.78	709-1233-1-ND	7.80	46.10	2,000	127.68/M	100R18X106KV4E
10	3.3µF	±10%	1.78	709-1071-1-ND◊	7.70	45.50	2,000	126.00/M	100R18X335KV4E
10	4.7µF	±10%	1.78	709-1072-1-ND◊	6.33	37.38	2,000	103.50/M	100R18X475KV4E
16	4.7µF	±10%	1.78	709-1234-1-ND◊	6.32	37.37	2,000	103.48/M	160R18X475KV4E
16	4.7µF	±20%	1.78	709-1073-1-ND	5.12	30.23	2,000	83.70/M	160R18X475MV4E
25	4.7µF	±20%	1.78	709-1235-1-ND◊	7.39	43.68	2,000	120.96/M	250R18X475MV4E
25	10µF	±10%	1.78	709-1236-1-ND◊	10.84	64.06	2,000	177.41/M	250R18X106KV4E
1210 Series — X5R Type									
6.3	22µF	±20%	2.80	709-1078-1-ND	15.40	91.00	1,000	252.00	6R3S41X226MV4E
6.3	47µF	±20%	2.80	709-1241-1-ND◊	51.37	303.55	1,000	840.60	6R3S41X476MV4E
6.3	100µF	±20%	2.80	709-1079-1-ND◊	52.80	312.00	1,000	864.00	6R3S41X107MV4E
16	10µF	±10%	2.80	709-1076-1-ND	12.32	72.80	2,000	201.60/M	160S41X106KV4E
16	22µF	±10%	2.80	709-1240-1-ND◊	26.28	155.30	1,000	430.07	160S41X226KV4E
25	4.7µF	±10%	2.80	709-1075-1-ND◊	7.92	46.80	2,000	129.60/M	250S41X475KV4E
25	10µF	±10%	2.80	709-1077-1-ND	10.45	61.75	2,000	171.00/M	250S41X106KV4E
1210 Series — Y5V Type									
10	22µF	+80/-20%	2.80	709-1082-1-ND	10.89	64.35	2,000	178.20/M	100S41Y226ZV4E
1812 Series — X5R Type									
6.3	100µF	±20%	2.80	709-1084-1-ND	71.50	422.50	500	715.00	6R3S43X107MV4E
Surface Mount MLCC's									
0402 Series — NP0 Type									
25	150pF	±5%	0.64	709-1124-1-ND▲	.36	2.15	10,000	5.94/M	250R07N151JV4T
25	220pF	±5%	0.64	709-1125-1-ND▲	.36	2.15	10,000	5.94/M	250R07N221JV4T
50	1.0pF	±0.25pF	0.64	709-1112-1-ND▲	.51	2.99	10,000	8.28/M	500R07N1R0CV4T
50	2.2pF	±0.25pF	0.64	709-1113-1-ND▲	.51	2.99	10,000	8.28/M	500R07N2R2CV4T
50	3.3pF	±0.25pF	0.64	709-1114-1-ND▲	.35	2.06	10,000	5.71/M	500R07N3R3CV4T
50	4.7pF	±0.25pF	0.64	709-1115-1-ND▲	.35	2.06	10,000	5.71/M	500R07N4R7CV4T
50	6.8pF	±0.25pF	0.64	709-1116-1-ND▲	.39	2.31	10,000	6.39/M	500R07N6R8CV4T
50	10pF	±5%	0.64	709-1117-1-ND▲	.31	1.82	10,000	5.04/M	500R07N100JV4T
50	15pF	±5%	0.64	709-1118-1-ND▲	.31	1.82	10,000	5.04/M	500R07N150JV4T
50	22pF	±5%	0.64	709-1119-1-ND▲	.31	1.82	10,000	5.04/M	500R07N220JV4T
50	33pF	±5%	0.64	709-1120-1-ND▲	.31	1.82	10,000	5.04/M	500R07N330JV4T
50	47pF	±5%	0.64	709-1121-1-ND▲	.31	1.82	10,000	5.04/M	500R07N470JV4T
50	68pF	±5%	0.64	709-1122-1-ND▲	.31	1.82	10,000	5.04/M	500R07N680JV4T
50	100pF	±5%	0.64	709-1123-1-ND▲	.35	2.06	10,000	5.71/M	500R07N101JV4T
0402 Series — X5R Type									
10	.1µF	±10%	0.64	709-1126-1-ND▲	.58	3.45	10,000	9.54/M	100R07X104KV4T
16	.1µF	±10%	0.64	709-1129-1-ND▲	.58	3.45	10,000	9.54/M	160R07X104KV4T
0402 Series — Y5V Type									
16	.1µF	+80/-20%	0.64	709-1130-1-ND▲	.61	3.58	10,000	9.90/M	160R07Y104ZV4T

† Tip and Ring Chip Δ PolyTerm® Termination
✔ ***NEW!*** ★ For Tape and Reel part number, change -1-ND to -2-ND.

(Continued)

MLCC Capacitors

General Purpose, High Voltage and TANCERAM® *(Cont.)*

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel★ Qty.	Tape and Reel★ Pricing	Johanson Dielectrics Part No.
0402 Series — X7R Type									
16	.01µF	±10%	0.64	709-1127-1-ND▲	.35	2.06	10,000	5.71/M	160R07W103KV4T
16	22,000pF	±10%	0.64	709-1128-1-ND▲	.41	2.41	10,000	6.66/M	160R07W223KV4T
25	1,000pF	±10%	0.64	709-1131-1-ND▲	.29	1.69	10,000	4.68/M	250R07W102KV4T
25	0.01µF	±10%	0.64	709-1132-1-ND▲	.41	2.41	10,000	6.66/M	250R07W103KV4T
50	1,000pF	±10%	0.64	709-1133-1-ND▲	.29	1.69	10,000	4.68/M	500R07W102KV4T
50	.01µF	±10%	0.64	709-1134-1-ND▲	.41	2.41	10,000	6.66/M	500R07W103KV4T
50	2,200pF	±10%	0.64	709-1135-1-ND▲	.29	1.69	10,000	4.68/M	500R07W222KV4T
50	3,300pF	±10%	0.64	709-1136-1-ND▲	.52	1.87	—	—	500R07W332KV4T
50	470pF	±10%	0.64	709-1137-1-ND▲	.29	1.69	10,000	4.68/M	500R07W471KV4T
50	4,700pF	±10%	0.64	709-1138-1-ND▲	.41	2.41	10,000	6.66/M	500R07W472KV4T
0603 Series — NP0 Type									
50	10pF	±5%	0.89	709-1140-1-ND‡	.39	2.28	4,000	6.30/M	500R14N100JV4T
50	12pF	±5%	0.89	709-1141-1-ND‡	.39	2.28	4,000	6.30/M	500R14N120JV4T
50	15pF	±5%	0.89	709-1142-1-ND‡	.39	2.28	4,000	6.30/M	500R14N150JV4T
50	22pF	±5%	0.89	709-1143-1-ND‡	.39	2.28	4,000	6.30/M	500R14N220JV4T
50	33pF	±5%	0.89	709-1144-1-ND‡	.70	2.52	—	—	500R14N330JV4T
50	47pF	±5%	0.89	709-1145-1-ND‡	.39	2.28	4,000	6.30/M	500R14N470JV4T
50	68pF	±5%	0.89	709-1146-1-ND‡	.39	2.28	4,000	6.30/M	500R14N680JV4T
50	100pF	±5%	0.89	709-1147-1-ND‡	.39	2.28	4,000	6.30/M	500R14N101JV4T
50	220pF	±5%	0.89	709-1148-1-ND‡	.47	2.80	4,000	7.74/M	500R14N221JV4T
50	330pF	±5%	0.89	709-1149-1-ND‡	.47	2.80	4,000	7.74/M	500R14N331JV4T
50	470	±5%	0.89	709-1150-1-ND‡	.70	4.16	4,000	11.52/M	500R14N471JV4T
0603 Series — X7R Type									
16	100	±5%	0.89	709-1151-1-ND‡	1.50	8.84	4,000	24.48/M	500R14N102JV4T
16	.01µF	±10%	0.89	709-1152-1-ND‡	.42	2.47	4,000	6.84/M	160R14W103KV4T
16	.1µF	±10%	0.89	709-1153-1-ND‡	.51	3.04	4,000	8.41/M	160R14W104KV4T
25	.01µF	±10%	0.89	709-1154-1-ND‡	.42	2.47	4,000	6.84/M	250R14W103KV4T
25	.1µF	±10%	0.89	709-1155-1-ND‡	1.36	8.06	4,000	22.32/M	250R14W104KV4T
25	.22µF	±10%	0.89	709-1156-1-ND‡	3.85	22.75	4,000	63.00/M	250R14W224KV4T
25	.047µF	±10%	0.89	709-1157-1-ND‡	.42	2.47	4,000	6.84/M	250R14W473KV4T
50	1000	±10%	0.89	709-1159-1-ND‡	.39	2.28	4,000	6.30/M	500R14W102KV4T
50	.01µF	±10%	0.89	709-1160-1-ND‡	.42	2.47	4,000	6.84/M	500R14W103KV4T
50	.1µF	±10%	0.89	709-1161-1-ND‡	.58	3.40	4,000	9.42/M	500R14W104KV4T
50	2,200	±10%	0.89	709-1162-1-ND‡	.39	2.28	4,000	6.30/M	500R14W222KV4T
50	.022µF	±10%	0.89	709-1163-1-ND‡	.42	2.47	4,000	6.84/M	500R14W223KV4T
50	470	±10%	0.89	709-1164-1-ND‡	.39	2.28	4,000	6.30/M	500R14W471KV4T
50	.047µF	±10%	0.89	709-1165-1-ND‡	.42	2.47	4,000	6.84/M	500R14W473KV4T
50	3,300	±10%	0.89	709-1166-1-ND‡	.39	2.28	4,000	6.30/M	500R14W7332KV4T
50	4,700	±10%	0.89	709-1167-1-ND‡	.39	2.28	4,000	6.30/M	500R14W7472KV4T
0603 Series — Y5V Type									
25	.1µF	+80/-20%	0.89	709-1158-1-ND‡	.39	2.28	4,000	6.30/M	250R14Y104ZV4T

WV DC	Cap.	Cap. Tol.	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel★ Qty.	Tape and Reel★ Pricing	Johanson Dielectrics Part No.
0805 Series — NP0 Type									
50	10	±5%	1.27	709-1168-1-ND§	.44	2.60	4,000	7.20/M	500R15N100JV4T
50	12	±5%	1.27	709-1169-1-ND§	.44	2.60	4,000	7.20/M	500R15N120JV4T
50	15	±5%	1.27	709-1170-1-ND§	.44	2.60	4,000	7.20/M	500R15N150JV4T
50	18	±5%	1.27	709-1171-1-ND§	.44	2.60	4,000	7.20/M	500R15N180JV4T
50	22	±5%	1.27	709-1172-1-ND§	.44	2.60	4,000	7.20/M	500R15N220JV4T
50	27	±5%	1.27	709-1173-1-ND§	.42	2.47	4,000	6.84/M	500R15N270KV4T
50	33	±5%	1.27	709-1174-1-ND§	.44	2.60	4,000	7.20/M	500R15N330JV4T
50	47	±5%	1.27	709-1175-1-ND§	.44	2.60	4,000	7.20/M	500R15N470JV4T
50	100	±5%	1.27	709-1176-1-ND§	.44	2.60	4,000	7.20/M	500R15N101JV4T
50	220	±5%	1.27	709-1178-1-ND§	.55	3.25	4,000	9.00/M	500R15N221JV4T
50	470	±5%	1.27	709-1179-1-ND§	.68	4.03	4,000	11.16/M	500R15N471JV4T
50	1,000	±5%	1.27	709-1180-1-ND§	1.30	7.67	4,000	21.24/M	500R15N102JV4T
0805 Series — X7R Type									
100	1,000	±10%	1.27	709-1181-1-ND§	.95	5.59	4,000	15.48/M	101R15W102KV4T
100	.01µF	±10%	1.27	709-1182-1-ND§	.98	5.79	4,000	16.02/M	101R15W103KV4T
16	.1µF	±10%	1.27	709-1183-1-ND§	.67	3.97	4,000	10.98/M	160R15W104KV4T
16	.47µF	±10%	1.27	709-1184-1-ND§	2.59	15.29	3,000	42.34/M	160R15W474KV4E
25	.1µF	±10%	1.27	709-1185-1-ND§	.90	5.34	4,000	14.78/M	250R15W104KV4T
25	.22µF	±10%	1.27	709-1186-1-ND§	2.46	14.56	4,000	40.32/M	250R15W224KV4T
50	1,000	±10%	1.27	709-1187-1-ND§	.44	2.60	4,000	7.20/M	500R15W102KV4T
50	.01µF	±10%	1.27	709-1188-1-ND§	.44	2.60	4,000	7.20/M	500R15W103KV4T
50	.1µF	±10%	1.27	709-1189-1-ND§	.67	3.97	4,000	10.98/M	500R15W104KV4T
50	.022µF	±10%	1.27	709-1190-1-ND§	.70	4.16	4,000	11.52/M	500R15W223KV4T
50	.22µF	±10%	1.27	709-1191-1-ND§	3.30	19.50	4,000	54.00/M	500R15W224KV4T
50	3,300	±10%	1.27	709-1192-1-ND§	.47	2.80	4,000	7.74/M	500R15W332KV4T
50	.033µF	±10%	1.27	709-1193-1-ND§	.86	5.07	4,000	14.04/M	500R15W333KV4T
50	4,700	±10%	1.27	709-1194-1-ND§	.47	2.80	4,000	7.74/M	500R15W472KV4T
50	.047µF	±10%	1.27	709-1195-1-ND§	.97	5.72	4,000	21.24/M	500R15W473KV4T

† Tip and Ring Chip Δ PolyTerm® Termination ✔ ***NEW!*** ★ For Tape and Reel part number, change -1-ND to -2-ND.

Kits

See Digi-Key website for additional kit contents.

▲	**709-1109-ND** (DIGI-402)	MLC 0402 Series Capacitor Designer Kit	**$59.98**
‡	**709-1110-ND** (S-0603-DIGI)	MLC 0603 Series Capacitor Designer Kit	**$59.98**
§	**709-1111-ND** (DIGI-805)	MLC 0805 Series Capacitor Designer Kit	**$59.98**
◊	**709-1221-ND** (S-TAN-X5R)	X5R TANCERAM High CV Capacitor Kit	**$79.90**
✣	**709-1248-ND** (S-500)	***NEW!*** 500V MLCC SMD Capacitor Kit	**$79.98**
✰	**709-1249-ND** (S-1KV)	***NEW!*** 1,000V MLCC SMD Capacitor Kit	**$79.98**
✻	**709-1250-ND** (S-2KV)	***NEW!*** 2,000V MLCC SMD Capacitor Kit	**$79.98**
✿	**709-1251-ND** (S-PLY-2)	***NEW!*** High Voltage PolyTerm® Capactior Kit	**$79.98**

F

Safety Certified Capacitors – Type SC

Johanson Dielectrics Type SC ceramic chip capacitors are designed for AC voltage surge and lightning protection in line-to-ground interface applications in computer network, modem, facsimile and other equipment. Johanson's safety capacitor offering includes four different case sizes and NP0 and X7R dielectric materials. These devices have barrier terminations and are surface mount ready.

Safety Rating Information:

- **X Capacitors:** Suitable for use in situations when failure of the capacitor would not lead to danger of electric shock
- **Y Capacitors:** Suitable for use in situations when failure of the capacitor could lead to danger of electric shock

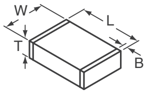

Series	Physical Characteristics — Dimensions in mm Safety Rating	L	W	B
1808	X2/Y3	4.57 ±0.25	2.03 ±0.25	0.51 ±0.25
	X1/Y2	4.80 ±0.25	2.03 ±0.25	0.30 ±0.13
2211	Y2	5.72 ±0.40	2.80 ±0.25	0.51 ±0.25
2220	X1/Y2	5.72 ±0.25	5.08 ±0.25	0.64 ±0.38

Size Code	Type	Impulse Voltage (V)	Safety Rating	WV AC	Capac-itance	Capac-itance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Johanson Dielectrics Part No.
1808	NP0	2,500	X2/Y3	250	10pF	±5%	2.16	709-1089-1-ND	3.89	23.43	74.99	—	—	—	302R29N100JV4E-****-SC
	NP0	2,500	X2/Y3	250	10pF	±10%	2.16	709-1252-1-ND▼ ***NEW!***	2.20	13.02	37.56	709-1252-2-ND ***NEW!***	2,000	36.06/M	302R29N100KV3E-****-SC
	NP0	2,500	X2/Y3	250	18pF	±5%	2.16	709-1253-1-ND▼ ***NEW!***	9.79	57.86	166.91	709-1253-2-ND ***NEW!***	2,000	160.24/M	302R29N180JV3E-****-SC
	NP0	2,500	X2/Y3	250	33pF	±5%	2.16	709-1254-1-ND▼ ***NEW!***	11.06	65.33	188.44	709-1254-2-ND ***NEW!***	2,000	180.90/M	302R29N330JV3E-****-SC
	NP0	2,500	X2/Y3	250	47pF	±5%	2.16	709-1255-1-ND▼ ***NEW!***	12.05	71.18	205.31	709-1255-2-ND ***NEW!***	2,000	197.10/M	302R29N470JV3E-****-SC
	NP0	2,500	X2/Y3	250	68pF	±5%	2.16	709-1256-1-ND▼ ***NEW!***	16.06	94.90	273.75	709-1256-2-ND ***NEW!***	2,000	262.80/M	302R29N680JV3E-****-SC
	NP0	2,500	X2/Y3	250	150pF	±10%	2.16	709-1090-1-ND	7.48	44.19	127.46	709-1090-2-ND	2,000	122.37/M	302R29N151KV4E-****-SC
	NP0	2,500	X2/Y3	250	220pF	±10%	2.16	709-1257-1-ND▼ ***NEW!***	23.46	138.65	399.94	709-1257-2-ND ***NEW!***	2,000	383.94/M	302R29N221KV3E-****-SC
	NP0	5,000	X1/Y2	250	10pF	±10%	2.16	709-1262-1-ND• ***NEW!***	11.46	67.73	195.38	709-1262-2-ND ***NEW!***	2,000	187.56/M	502R29N100KV3E-****-SC
	NP0	5,000	X1/Y2	250	18pF	±5%	2.16	709-1263-1-ND• ***NEW!***	9.79	57.85	166.88	709-1263-2-ND ***NEW!***	2,000	160.20/M	502R29N180JV3E-****-SC
	NP0	5,000	X1/Y2	250	33pF	±5%	2.16	709-1264-1-ND• ***NEW!***	17.44	103.03	297.19	709-1264-2-ND ***NEW!***	2,000	285.30/M	502R29N330JV3E-****-SC
	NP0	5,000	X1/Y2	250	100pF	±10%	2.16	709-1265-1-ND• ***NEW!***	12.32	72.80	210.00	709-1265-2-ND ***NEW!***	2,000	201.60/M	502R29N101KV3E-****-SC
	X7R	2,500	X2/Y3	250	330pF	±10%	2.16	709-1258-1-ND▼ ***NEW!***	10.14	59.93	172.88	709-1258-2-ND ***NEW!***	2,000	165.96/M	302R29W331KV3E-****-SC
	X7R	2,500	X2/Y3	250	330pF	±10%	2.16	709-1312-1-NDΔ ***NEW!***	30.86	182.33	525.94	709-1312-2-NDΔ ***NEW!***	2,000	504.90/M	302R29W331KF3E-****-SC
	X7R	2,500	X2/Y3	250	470pF	±10%	2.16	709-1091-1-ND	7.21	42.58	122.81	709-1091-2-ND	2,000	117.90/M	302R29W471KV4E-****-SC
	X7R	2,500	X2/Y3	250	470pF	±20%	2.16	709-1259-1-ND▼ ***NEW!***	9.82	58.05	167.44	709-1259-2-ND ***NEW!***	2,000	160.74/M	302R29W471MV3E-****-SC
	X7R	2,500	X2/Y3	250	680pF	±10%	2.16	709-1093-1-ND•	8.45	49.92	144.00	709-1093-2-ND	2,000	138.24/M	302R29W681KV4E-****-SC
	X7R	2,500	X2/Y3	250	680pF	±20%	2.16	709-1260-1-ND▼ ***NEW!***	12.33	72.87	210.19	709-1260-2-ND ***NEW!***	2,000	201.78/M	302R29W681MV3E-****-SC
	X7R	2,500	X2/Y3	250	1,000pF	±10%	2.16	709-1094-1-ND	7.35	43.42	125.25	709-1094-2-ND	2,000	120.24/M	302R29W102KV4E-****-SC
	X7R	2,500	X2/Y3	250	1,000pF	±10%	2.16	709-1314-1-NDΔ ***NEW!***	41.77	246.81	711.94	709-1314-2-NDΔ ***NEW!***	2,000	683.46/M	302R29W102KF3E-****-SC
	X7R	2,500	X2/Y3	250	1,500pF	±10%	2.16	709-1261-1-ND▼ ***NEW!***	12.05	71.18	205.31	709-1261-2-ND ***NEW!***	2,000	197.10/M	302R29W152KV3E-****-SC
	X7R	5,000	X1/Y2	250	330pF	±10%	2.16	709-1266-1-ND• ***NEW!***	14.27	84.31	243.19	709-1266-2-ND ***NEW!***	2,000	233.46/M	502R29W331KV3E-****-SC
	X7R	5,000	X1/Y2	250	330pF	±10%	2.16	709-1313-1-NDΔ ***NEW!***	44.30	261.76	755.06	709-1313-2-NDΔ ***NEW!***	2,000	724.86/M	502R29W331KF3E-****-SC
	X7R	5,000	X1/Y2	250	470pF	±10%	2.16	709-1267-1-ND• ***NEW!***	14.31	84.57	243.94	709-1267-2-ND ***NEW!***	2,000	234.18/M	502R29W471KV3E-****-SC
	X7R	5,000	X1/Y2	250	680pF	±10%	2.16	709-1268-1-ND ***NEW!***	16.09	95.10	274.31	709-1268-2-ND ***NEW!***	2,000	178.20/M	502R29W681KV3E-****-SC
	X7R	5,000	X1/Y2	250	680pF	±10%	2.16	709-1092-1-ND•	15.84	93.60	270.00	709-1092-2-ND	2,000	259.20/M	502R29W681KV4E-****-SC
	X7R	5,000	X1/Y2	250	1,000pF	±10%	2.16	709-1269-1-ND• ***NEW!***	23.84	140.86	406.31	709-1269-2-ND ***NEW!***	2,000	390.06/M	502R29W102KV3E-****-SC
2211	NP0	5,000	Y2	250	33pF	±5%	2.16	709-1096-1-ND	12.83	75.79	218.63	709-1096-2-ND	2,000	209.88/M	502R30N330JV4E-****-SC
	X7R	5,000	Y2	250	680pF	±10%	2.16	709-1097-1-ND	13.98	82.62	238.31	709-1097-2-ND	2,000	228.78/M	502R30W681KV4E-****-SC
	X7R	5,000	Y2	250	680pF	±10%	2.92	709-1315-1-NDΔ ***NEW!***	51.59	304.85	879.38	709-1315-2-NDΔ ***NEW!***	2,000	844.20/M	502R30W681KF3E-****-SC
	X7R	5,000	Y2	250	1,000pF	±10%	2.16	709-1098-1-ND	13.64	80.60	232.50	709-1098-2-ND	1,000	223.20	502R30W102KV4E-****-SC
	X7R	5,000	Y2	250	2,200pF	±10%	2.92	709-1270-1-ND• ***NEW!***	25.43	150.28	—	709-1270-2-ND ***NEW!***	500	254.32	502R30W222KV3E-****-SC
2220	X7R	5,000	X1/Y2	250	2,200pF	±10%	2.80	709-1099-1-ND	34.18	201.96	—	709-1099-2-ND	500	341.77	502S47W222KV4E-****-SC
	X7R	5,000	X1/Y2	250	2,200pF	±10%	3.81	709-1316-1-NDΔ ***NEW!***	161.81	956.15	—	709-1316-2-NDΔ ***NEW!***	500	1618.10	502S47W222KF3E-****-SC
	X7R	5,000	X1/Y2	250	4,700pF	±10%	2.80	709-1100-1-ND	64.90	383.50	—	709-1100-2-ND	500	649.00	502S47W472KV4E-****-SC

Δ PolyTerm® Termination

NEW! Kits

▼	**709-1246-ND** (S-SY3)	X2Y3 MLCC Safety Capacitor Kit	**$79.98**
•	**709-1247-ND** (S-Y2)	Y2 MLCC Safety Capacitor Kit	**$79.98**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Multilayer Ceramic Chip Capacitors

KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor manufacturing. The process features a high degree of mechanization as well as precise controls over raw materials and process conditions. Manufacturing is supplemented by extensive technology, Engineering and Quality Assurance programs. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability. The 250VDC or Tip & Ring MLCC capacitors are designed and rated for telecommunication ringer circuits where the capacitor is used to block -48 ~ -52VDC of line voltage and pass a 16 ~ 25Hz AC signal pulse of 70 ~ 90Vrms. KEMET's open mode ceramic surface mount capacitor is designed to significantly minimize the probability of a low IR or short circuit condition when forced to failure in a board flex situation. This reduces the potential for causing catastrophic failures.

Please Note: For additional dimensions see data sheet.

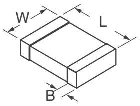

Size Code (EIA)	Dimensions - mm		
	L	W	B
0402	1.0 ±0.05	0.5 ±0.05	0.20~0.40
0603	1.6 ±0.15	0.8 ±0.15	0.35 ±0.15
0805	2.0 ±0.2	1.25 (≥250V: 1.2) ±0.2	0.5 ±0.25
1206	3.2±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25
1808	4.5 ±0.3	2.0 ±0.2	0.6 ±0.35
1812	4.5 ±0.3	3.2 ±0.3	0.6 ±0.35
1825	4.5 ±0.3	6.4 ±0.4	0.6 ±0.35
2220	5.6 ±0.4	5.0 ±0.4	0.6 ±0.35
2225	5.6 ±0.4	6.3 (≥250V: 6.4) ±0.4	0.6 ±0.35

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Case Size 0402								
COG (NPO) Type								
50	.5pF	±0.25pF	399-1000-1-ND	3.88	20.30	10,000	62.00/M	C0402C508C5GACTU
50	1.2pF	±0.25pF	399-1001-1-ND	1.38	4.95	10,000	11.55/M	C0402C129C5GACTU
50	1.5pF	±0.25pF	399-1002-1-ND	1.38	4.95	10,000	11.55/M	C0402C159C5GACTU
50	1.8pF	±0.25pF	399-1003-1-ND	1.38	4.95	10,000	11.55/M	C0402C189C5GACTU
50	2pF	±0.25pF	399-1004-1-ND	4.09	21.39	10,000	65.00/M	C0402C209C5GACTU
50	2.7pF	±0.25pF	399-1005-1-ND	1.38	4.95	10,000	11.55/M	C0402C279C5GACTU
50	3pF	±0.25pF	399-1006-1-ND	4.09	21.39	10,000	65.00/M	C0402C309C5GACTU
50	3.3pF	±0.25pF	399-1007-1-ND	1.38	4.95	10,000	11.55/M	C0402C339C5GACTU
50	5.6pF	±0.5pF	399-1008-1-ND	3.41	17.83	10,000	54.00/M	C0402C569D5GACTU
50	8.2pF	±0.5pF	399-1009-1-ND	3.41	17.83	10,000	54.00/M	C0402C829D5GACTU
50	9.1pF	±0.5pF	399-1010-1-ND	4.09	21.39	10,000	65.00/M	C0402C919D5GACTU
50	10pF	±5%	399-1011-1-ND	.55	1.98	10,000	4.62/M	C0402C100J5GACTU
50	11pF	±5%	399-1012-1-ND	3.49	21.00	10,000	67.00/M	C0402C110J5GACTU
50	12pF	±5%	399-1013-1-ND	1.20	4.32	10,000	10.08/M	C0402C120J5GACTU
50	15pF	±5%	399-1014-1-ND	.55	1.98	10,000	4.62/M	C0402C150J5GACTU
50	22pF	±5%	399-1015-1-ND	.55	1.98	10,000	4.62/M	C0402C220J5GACTU
50	27pF	±5%	399-1016-1-ND	.55	1.98	10,000	4.62/M	C0402C270J5GACTU
50	33pF	±5%	399-1017-1-ND	.55	1.98	10,000	4.62/M	C0402C330J5GACTU
50	39pF	±5%	399-1018-1-ND	.55	1.98	10,000	4.62/M	C0402C390J5GACTU
50	47pF	±5%	399-1019-1-ND	.55	1.98	10,000	4.62/M	C0402C470J5GACTU
50	56pF	±5%	399-1020-1-ND	.55	1.98	10,000	4.62/M	C0402C560J5GACTU
50	75pF	±5%	399-3191-1-ND	3.49	21.00	10,000	67.00/M	C0402C750J5GACTU
50	82pF	±5%	399-3192-1-ND	3.85	20.13	10,000	61.00/M	C0402C820J5GACTU
50	91pF	±5%	399-3193-1-ND	3.49	21.00	10,000	67.00/M	C0402C910J5GACTU
50	100pF	±5%	399-3194-1-ND	.55	1.98	10,000	4.62/M	C0402C101J5GACTU
25	82pF	±5%	399-1021-1-ND	3.85	20.13	10,000	61.00/M	C0402C820J3GACTU
25	100pF	±5%	399-1022-1-ND	.55	1.98	10,000	4.62/M	C0402C101J3GACTU
X7R Type								
50	220pF	±10%	399-1030-1-ND	.60	2.16	10,000	5.04/M	C0402C221K5RACTU
50	330pF	±10%	399-1023-1-ND	4.07	21.28	10,000	65.00/M	C0402C331K5RACTU
50	470pF	±10%	399-1025-1-ND	.48	1.71	10,000	3.99/M	C0402C471K5RACTU
50	560pF	±10%	399-1026-1-ND	1.65	5.94	10,000	13.86/M	C0402C561K5RACTU
50	680pF	±10%	399-1027-1-ND	.63	2.25	10,000	5.25/M	C0402C681K5RACTU
50	1000pF	±10%	399-1032-1-ND	.40	1.44	10,000	3.36/M	C0402C102K5RACTU
50	1200pF	±10%	399-1028-1-ND	1.65	5.94	10,000	13.86/M	C0402C122K5RACTU
50	1500pF	±10%	399-1029-1-ND	.75	2.70	10,000	6.30/M	C0402C152K5RACTU
50	1800pF	±10%	399-3067-1-ND	4.07	21.28	10,000	65.00/M	C0402C182K5RACTU
50	2200pF	±10%	399-3068-1-ND	.53	1.89	10,000	4.41/M	C0402C222K5RACTU
50	2700pF	±10%	399-3069-1-ND	.88	3.15	10,000	7.35/M	C0402C272K5RACTU
50	3300pF	±10%	399-3070-1-ND	.70	2.52	10,000	5.88/M	C0402C332K5RACTU
50	3900pF	±10%	399-3071-1-ND	.68	2.43	10,000	5.67/M	C0402C392K5RACTU
50	4700pF	±10%	399-3072-1-ND	.50	1.80	10,000	4.20/M	C0402C472K5RACTU
50	5600pF	±10%	399-3073-1-ND	3.33	15.54	10,000	42.00/M	C0402C562K5RACTU
50	6800pF	±10%	399-3074-1-ND	3.33	15.54	10,000	42.00/M	C0402C682K5RACTU
50	8200pF	±10%	399-3075-1-ND	3.33	15.54	10,000	42.00/M	C0402C822K5RACTU
50	10000pF	±10%	399-3066-1-ND	.55	1.98	10,000	4.62/M	C0402C103K5RACTU
25	470pF	±10%	399-1024-1-ND	4.07	21.28	10,000	65.00/M	C0402C471K3RACTU
25	1000pF	±10%	399-1031-1-ND	.45	1.62	10,000	3.78/M	C0402C102K3RACTU
25	2200pF	±10%	399-1033-1-ND	1.43	5.13	10,000	11.97/M	C0402C222K3RACTU
25	3900pF	±10%	399-1034-1-ND	1.25	4.50	10,000	10.50/M	C0402C392K3RACTU
25	4700pF	±10%	399-1035-1-ND	.53	1.89	10,000	4.41/M	C0402C472K3RACTU
25	5600pF	±10%	399-1276-1-ND	.75	2.70	10,000	6.30/M	C0402C562K3RACTU
25	8200pF	±10%	399-1277-1-ND	3.33	15.54	10,000	42.00/M	C0402C822K3RACTU
25	10000pF	±5%	399-1279-1-ND	.75	2.70	10,000	6.30/M	C0402C103J3RACTU
25	10000pF	±10%	399-1278-1-ND	.45	1.62	10,000	3.78/M	C0402C103K3RACTU
16	5600pF	±10%	399-1036-1-ND	4.07	21.28	10,000	65.00/M	C0402C562K4RACTU
16	8200pF	±10%	399-1037-1-ND	4.07	21.28	10,000	65.00/M	C0402C822K4RACTU
16	10000pF	±5%	399-1039-1-ND	4.07	24.50	10,000	78.00/M	C0402C103J4RACTU
16	10000pF	±10%	399-1038-1-ND	.40	1.44	10,000	3.36/M	C0402C103K4RACTU
16	12000pF	±10%	399-4875-1-ND	1.00	3.60	10,000	8.00/M	C0402C123K4RACTU
16	15000pF	±10%	399-4878-1-ND	4.29	22.43	10,000	68.00/M	C0402C153K4RACTU
16	18000pF	±10%	399-4881-1-ND	4.29	22.43	10,000	68.00/M	C0402C183K4RACTU
16	22000pF	±10%	399-3518-1-ND	4.29	22.43	10,000	68.00/M	C0402C223K4RACTU
16	27000pF	±10%	399-4888-1-ND	4.29	22.43	10,000	68.00/M	C0402C273K4RACTU
16	33000pF	±10%	399-4891-1-ND	4.29	22.43	10,000	68.00/M	C0402C333K4RACTU
16	39000pF	±10%	399-4894-1-ND	4.29	22.43	10,000	68.00/M	C0402C393K4RACTU
16	47000pF	±10%	399-3519-1-ND	4.29	22.43	10,000	68.00/M	C0402C473K4RACTU
16	56000pF	±10%	399-4901-1-ND	4.29	22.43	10,000	68.00/M	C0402C563K4RACTU
16	68000pF	±10%	399-4904-1-ND	4.29	22.43	10,000	68.00/M	C0402C683K4RACTU
16	82000pF	±10%	399-4907-1-ND	4.29	22.43	10,000	68.00/M	C0402C823K4RACTU
16	.1µF	±10%	399-3521-1-ND	1.88	6.75	10,000	15.75/M	C0402C104K4RACTU
10	12000pF	±10%	399-4876-1-ND	4.07	21.28	10,000	65.00/M	C0402C123K8RACTU
10	15000pF	±10%	399-4879-1-ND	4.07	21.28	10,000	65.00/M	C0402C153K8RACTU
10	18000pF	±10%	399-4882-1-ND	4.07	21.28	10,000	65.00/M	C0402C183K8RACTU
10	22000pF	±10%	399-4884-1-ND	4.07	21.28	10,000	65.00/M	C0402C223K8RACTU
10	27000pF	±10%	399-4889-1-ND	4.07	21.28	10,000	65.00/M	C0402C273K8RACTU
10	33000pF	±10%	399-4892-1-ND	4.07	21.28	10,000	65.00/M	C0402C333K8RACTU
10	39000pF	±10%	399-4895-1-ND	4.07	21.28	10,000	65.00/M	C0402C393K8RACTU
10	47000pF	±10%	399-4897-1-ND	4.07	21.28	10,000	65.00/M	C0402C473K8RACTU
10	56000pF	±10%	399-4902-1-ND	4.07	21.28	10,000	65.00/M	C0402C563K8RACTU
10	68000pF	±10%	399-4905-1-ND	4.07	21.28	10,000	65.00/M	C0402C683K8RACTU
10	82000pF	±10%	399-4908-1-ND	4.07	21.28	10,000	65.00/M	C0402C823K8RACTU
10	.1µF	±10%	399-3520-1-ND	.60	2.16	10,000	5.04/M	C0402C104K8RACTU
6.3	12000pF	±10%	399-4877-1-ND	4.07	21.28	10,000	65.00/M	C0402C123K9RACTU
6.3	15000pF	±10%	399-4880-1-ND	4.07	21.28	10,000	65.00/M	C0402C153K9RACTU
6.3	18000pF	±10%	399-4883-1-ND	4.07	21.28	10,000	65.00/M	C0402C183K9RACTU
6.3	22000pF	±10%	399-4885-1-ND	4.07	21.28	10,000	65.00/M	C0402C223K9RACTU
6.3	27000pF	±10%	399-4890-1-ND	4.07	21.28	10,000	65.00/M	C0402C273K9RACTU
6.3	33000pF	±10%	399-4893-1-ND	4.07	21.28	10,000	65.00/M	C0402C333K9RACTU
6.3	39000pF	±10%	399-4896-1-ND	4.07	21.28	10,000	65.00/M	C0402C393K9RACTU
6.3	47000pF	±10%	399-4898-1-ND	4.07	21.28	10,000	65.00/M	C0402C473K9RACTU
6.3	56000pF	±10%	399-4903-1-ND	4.07	21.28	10,000	65.00/M	C0402C563K9RACTU
6.3	68000pF	±10%	399-4906-1-ND	4.07	21.28	10,000	65.00/M	C0402C683K9RACTU
6.3	82000pF	±10%	399-4909-1-ND	4.07	21.28	10,000	65.00/M	C0402C823K9RACTU
6.3	.1µF	±10%	399-4872-1-ND	1.13	4.05	10,000	9.00/M	C0402C104K9RACTU
X5R Type								
10	12000pF	±10%	399-3009-1-ND	3.15	14.70	10,000	40.00/M	C0402C123K8PACTU
10	15000pF	±10%	399-3011-1-ND	3.15	14.70	10,000	40.00/M	C0402C153K8PACTU
10	18000pF	±10%	399-3013-1-ND	3.15	14.70	10,000	40.00/M	C0402C183K8PACTU
10	22000pF	±10%	399-3015-1-ND	3.30	15.40	10,000	42.00/M	C0402C223K8PACTU
10	27000pF	±10%	399-3017-1-ND	3.30	15.40	10,000	42.00/M	C0402C273K8PACTU
10	33000pF	±10%	399-3019-1-ND	3.45	16.10	10,000	44.00/M	C0402C333K8PACTU
10	47000pF	±10%	399-3021-1-ND	1.33	4.77	10,000	11.13/M	C0402C473K8PACTU
10	68000pF	±10%	399-3023-1-ND	2.75	14.38	10,000	44.00/M	C0402C683K8PACTU
10	.1µF	±10%	399-3027-1-ND	.55	1.98	10,000	4.62/M	C0402C104K8PACTU
6.3	12000pF	±10%	399-3008-1-ND	3.15	14.70	10,000	40.00/M	C0402C123K9PACTU
6.3	15000pF	±10%	399-3010-1-ND	3.15	14.70	10,000	40.00/M	C0402C153K9PACTU
6.3	18000pF	±10%	399-3012-1-ND	3.15	14.70	10,000	40.00/M	C0402C183K9PACTU
6.3	22000pF	±10%	399-3014-1-ND	3.30	15.40	10,000	42.00/M	C0402C223K9PACTU
6.3	27000pF	±10%	399-3016-1-ND	3.30	15.40	10,000	42.00/M	C0402C273K9PACTU
6.3	33000pF	±10%	399-3018-1-ND	3.45	16.10	10,000	44.00/M	C0402C333K9PACTU
6.3	47000pF	±10%	399-3020-1-ND	3.60	16.80	10,000	46.00/M	C0402C473K9PACTU
6.3	68000pF	±10%	399-3022-1-ND	2.75	14.38	10,000	44.00/M	C0402C683K9PACTU
6.3	.1µF	±10%	399-3026-1-ND	1.00	3.60	10,000	8.40/M	C0402C104K9PACTU
6.3	.22µF	±10%	399-4886-1-ND	1.55	5.58	10,000	13.00/M	C0402C224K9PACTU
6.3	.22µF	±20%	399-4887-1-ND	4.29	22.43	10,000	68.00/M	C0402C224M9PACTU
6.3	1µF	±10%	399-4873-1-ND	1.13	4.05	10,000	9.00/M	C0402C105K9PACTU
6.3	1µF	±20%	399-4874-1-ND	2.78	12.95	10,000	35.00/M	C0402C105M9PACTU
4	3.3µF	±20%	399-5501-1-ND	4.15	25.00	10,000	80.00/M	C0402C335M7PACTU
4	4.7µF	±20%	399-5499-1-ND	4.99	31.29	10,000	104.30/M	C0402C475M7PACTU
Case Size 0603								
COG (NPO) Type								
100	220pF	±5%	399-4910-1-ND	2.97	15.53	4,000	50.00/M	C0603C221J1GACTU
50	.5pF	±0.25pF	399-1044-1-ND	3.08	16.10	4,000	52.00/M	C0603C508C5GACTU
50	1pF	±0.25pF	399-1045-1-ND	2.00	8.00	4,000	21.50/M	C0603C109C5GACTU
50	1.5pF	±0.25pF	399-1046-1-ND	.90	3.24	4,000	8.28/M	C0603C159C5GACTU
50	2pF	±0.25pF	399-1047-1-ND	2.00	8.00	4,000	21.50/M	C0603C209C5GACTU
50	3pF	±0.25pF	399-1048-1-ND	2.00	8.00	4,000	21.50/M	C0603C309C5GACTU
50	10pF	±5%	399-1049-1-ND	.63	2.25	4,000	5.75/M	C0603C100J5GACTU
50	12pF	±5%	399-1050-1-ND	.88	3.15	4,000	8.05/M	C0603C120J5GACTU
50	15pF	±5%	399-1051-1-ND	.75	2.70	4,000	6.90/M	C0603C150J5GACTU
50	18pF	±5%	399-1052-1-ND	.70	2.52	4,000	6.44/M	C0603C180J5GACTU
50	22pF	±5%	399-1053-1-ND	.83	2.97	4,000	7.59/M	C0603C220J5GACTU
50	27pF	±5%	399-1054-1-ND	.70	2.52	4,000	6.44/M	C0603C270J5GACTU
50	33pF	±5%	399-1055-1-ND	.70	2.52	4,000	6.44/M	C0603C330J5GACTU
50	47pF	±5%	399-1056-1-ND	.70	2.52	4,000	6.44/M	C0603C470J5GACTU
50	56pF	±5%	399-1057-1-ND	.65	2.34	4,000	5.98/M	C0603C560J5GACTU
50	68pF	±5%	399-1058-1-ND	.85	3.06	4,000	7.82/M	C0603C680J5GACTU
50	82pF	±5%	399-1060-1-ND	.88	3.15	4,000	8.05/M	C0603C820J5GACTU
50	82pF	±10%	399-1059-1-ND	3.00	14.00	4,000	40.00/M	C0603C820K5GACTU
50	100pF	±5%	399-1061-1-ND	.60	2.16	4,000	5.52/M	C0603C101J5GACTU
50	120pF	±5%	399-1062-1-ND	.88	3.15	4,000	8.05/M	C0603C121J5GACTU
50	150pF	±5%	399-1063-1-ND	.83	2.97	4,000	7.59/M	C0603C151J5GACTU
50	180pF	±5%	399-1064-1-ND	.98	3.51	4,000	8.97/M	C0603C181J5GACTU
50	220pF	±5%	399-1066-1-ND	.90	3.24	4,000	8.28/M	C0603C221J5GACTU
50	220pF	±10%	399-1065-1-ND	3.60	16.80	4,000	48.00/M	C0603C221K5GACTU
50	270pF	±5%	399-1067-1-ND	1.08	3.87	4,000	9.89/M	C0603C271J5GACTU
50	330pF	±5%	399-1068-1-ND	.93	3.33	4,000	8.51/M	C0603C331J5GACTU
50	390pF	±5%	399-1069-1-ND	1.43	5.13	4,000	13.11/M	C0603C391J5GACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND ✔ **NEW!**

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
50	560pF	±5%	399-3287-1-ND	1.63	5.85	4,000	14.95/M	C0603C561J5GACTU
50	620pF	±5%	399-3288-1-ND	3.85	20.13	4,000	65.00/M	C0603C621J5GACTU
50	680pF	±5%	399-3289-1-ND	1.38	4.95	4,000	12.65/M	C0603C681J5GACTU
50	750pF	±5%	399-3290-1-ND	3.96	20.70	4,000	67.00/M	C0603C751J5GACTU
50	820pF	±5%	399-3291-1-ND	1.80	7.20	4,000	19.35/M	C0603C821J5GACTU
50	910pF	±5%	399-3292-1-ND	4.09	21.39	4,000	69.00/M	C0603C911J5GACTU
50	1000pF	±5%	399-3293-1-ND	1.23	4.41	4,000	11.27/M	C0603C102J5GACTU
X7R Type								
200	10000pF	±10%	399-5088-1-ND	4.00	20.93	4,000	67.00/M	C0603C103K2RACTU
100	5600pF	±10%	399-3186-1-ND	3.30	17.25	4,000	56.00/M	C0603C562K1RACTU
100	6800pF	±10%	399-3187-1-ND	3.30	17.25	4,000	56.00/M	C0603C682K1RACTU
100	8200pF	±10%	399-3188-1-ND	3.30	17.25	4,000	56.00/M	C0603C822K1RACTU
100	10000pF	±5%	399-3190-1-ND	3.74	22.50	4,000	77.00/M	C0603C103J1RACTU
100	10000pF	±10%	399-3189-1-ND	3.30	17.25	4,000	56.00/M	C0603C103K1RACTU
100	12000pF	±10%	399-3473-1-ND	3.30	17.25	4,000	56.00/M	C0603C123K1RACTU
100	15000pF	±10%	399-3474-1-ND	3.30	17.25	4,000	56.00/M	C0603C153K1RACTU
100	18000pF	±10%	399-3475-1-ND	3.30	17.25	4,000	56.00/M	C0603C183K1RACTU
100	22000pF	±10%	399-3476-1-ND	3.30	17.25	4,000	56.00/M	C0603C223K1RACTU
100	27000pF	±10%	399-3477-1-ND	3.30	17.25	4,000	56.00/M	C0603C273K1RACTU
100	33000pF	±10%	399-3478-1-ND	3.30	17.25	4,000	56.00/M	C0603C333K1RACTU
100	39000pF	±10%	399-3479-1-ND	3.30	17.25	4,000	56.00/M	C0603C393K1RACTU
50	220pF	±10%	399-1071-1-ND	.95	3.42	4,000	8.74/M	C0603C221K5RACTU
50	220pF	±20%	399-1070-1-ND	2.75	14.38	4,000	46.00/M	C0603C221M5RACTU
50	270pF	±10%	399-1072-1-ND	2.86	14.95	4,000	48.00/M	C0603C271K5RACTU
50	330pF	±10%	399-1073-1-ND	1.08	3.87	4,000	9.89/M	C0603C331K5RACTU
50	390pF	±10%	399-1074-1-ND	2.86	14.95	4,000	48.00/M	C0603C391K5RACTU
50	470pF	±10%	399-1075-1-ND	1.50	5.40	4,000	13.80/M	C0603C471K5RACTU
50	560pF	±10%	399-1076-1-ND	2.86	14.95	4,000	48.00/M	C0603C561K5RACTU
50	680pF	±10%	399-1077-1-ND	.98	3.51	4,000	8.97/M	C0603C681K5RACTU
50	820pF	±10%	399-1078-1-ND	1.05	3.78	4,000	9.66/M	C0603C821K5RACTU
50	1000pF	±5%	399-1083-1-ND	.80	2.88	4,000	7.36/M	C0603C102J5RACTU
50	1000pF	±10%	399-1082-1-ND	.50	1.80	4,000	4.60/M	C0603C102K5RACTU
50	1500pF	±10%	399-1084-1-ND	.93	3.33	4,000	8.51/M	C0603C152K5RACTU
50	2200pF	±10%	399-1085-1-ND	.60	2.16	4,000	5.52/M	C0603C222K5RACTU
50	3300pF	±10%	399-1086-1-ND	.93	3.33	4,000	8.51/M	C0603C332K5RACTU
50	4700pF	±5%	399-1088-1-ND	.75	2.70	4,000	6.90/M	C0603C472J5RACTU
50	4700pF	±10%	399-1087-1-ND	.63	2.25	4,000	5.75/M	C0603C472K5RACTU
50	6800pF	±5%	399-1090-1-ND	4.29	22.43	4,000	72.00/M	C0603C682J5RACTU
50	6800pF	±10%	399-1089-1-ND	.75	2.70	4,000	6.90/M	C0603C682K5RACTU
50	10000pF	±5%	399-1092-1-ND	.75	2.70	4,000	6.90/M	C0603C103J5RACTU
50	10000pF	±10%	399-1091-1-ND	.40	1.44	4,000	3.68/M	C0603C103K5RACTU
50	22000pF	±10%	399-1280-1-ND	.93	3.33	4,000	8.51/M	C0603C223K5RACTU
25	22000pF	±10%	399-1094-1-ND	.93	3.33	4,000	8.51/M	C0603C223K3RACTU
25	.1µF	±5%	399-1282-1-ND	3.49	21.00	4,000	71.00/M	C0603C104J3RACTU
25	.1µF	±10%	399-1281-1-ND	.75	2.70	4,000	6.90/M	C0603C104K3RACTU
25	.1µF	±20%	399-1283-1-ND	3.23	16.91	4,000	54.00/M	C0603C104M3RACTU
16	22000pF	±10%	399-1093-1-ND	1.00	3.60	4,000	9.20/M	C0603C223K4RACTU
16	.1µF	±5%	399-1097-1-ND	1.50	6.00	4,000	16.13/M	C0603C104J4RACTU
16	.1µF	±10%	399-1096-1-ND	.45	1.62	4,000	4.14/M	C0603C104K4RACTU
16	.1µF	±20%	399-1099-1-ND	.53	1.89	4,000	4.83/M	C0603C104M4RACTU
16	.1µF	±20%	399-5784-1-ND✔	.53	1.89	10,000	4.00/M	C0603C104M4RAC7411
16	.22µF	±10%	399-5619-1-ND	3.49	21.00	4,000	71.40/M	C0603C224K4RACTU
16	.27µF	±10%	399-4913-1-ND	3.65	22.00	4,000	75.00/M	C0603C274K4RACTU
16	.33µF	±10%	399-4916-1-ND	3.82	23.00	4,000	78.00/M	C0603C334K4RACTU
16	.39µF	±10%	399-4919-1-ND	3.98	24.00	4,000	82.00/M	C0603C394K4RACTU
16	.47µF	±10%	399-4922-1-ND	2.00	8.00	4,000	22.00/M	C0603C474K4RACTU
10	.1µF	±10%	399-1095-1-ND	.53	1.89	4,000	4.83/M	C0603C104K8RACTU
10	.27µF	±10%	399-4914-1-ND	3.65	22.00	4,000	75.00/M	C0603C274K8RACTU
10	.33µF	±10%	399-4917-1-ND	1.60	6.40	4,000	17.00/M	C0603C334K8RACTU
10	.39µF	±10%	399-4920-1-ND	3.98	24.00	4,000	82.00/M	C0603C394K8RACTU
10	.47µF	±10%	399-4923-1-ND	4.15	25.00	4,000	85.00/M	C0603C474K8RACTU
6.3	.27µF	±10%	399-4915-1-ND	3.65	22.00	4,000	75.00/M	C0603C274K9RACTU
6.3	.33µF	±10%	399-4918-1-ND	3.82	23.00	4,000	78.00/M	C0603C334K9RACTU
6.3	.39µF	±10%	399-4921-1-ND	3.98	24.00	4,000	82.00/M	C0603C394K9RACTU
6.3	.47µF	±10%	399-4924-1-ND	4.15	25.00	4,000	85.00/M	C0603C474K9RACTU
X5R Type								
16	1.0µF	±10%	399-5090-1-ND	1.70	6.12	4,000	16.00/M	C0603C105K4PACTU
10	.27µF	±10%	399-3111-1-ND	3.54	16.52	4,000	47.20/M	C0603C274K8PACTU
10	.33µF	±10%	399-3112-1-ND	3.54	16.52	4,000	47.20/M	C0603C334K8PACTU
10	.39µF	±10%	399-3113-1-ND	3.54	16.52	4,000	47.20/M	C0603C394K8PACTU
10	.47µF	±10%	399-3114-1-ND	1.70	6.80	4,000	18.28/M	C0603C474K8PACTU
10	.56µF	±10%	399-3115-1-ND	3.54	16.52	4,000	47.20/M	C0603C564K8PACTU
10	.68µF	±10%	399-3116-1-ND	2.70	12.60	4,000	36.00/M	C0603C684K8PACTU
10	.82µF	±10%	399-3117-1-ND	2.97	15.53	4,000	49.95/M	C0603C824K8PACTU
10	1µF	±10%	399-3118-1-ND	1.00	3.60	4,000	9.20/M	C0603C105K8PACTU
10	4.7µF	±10%	399-5503-1-ND	2.86	14.95	4,000	48.10/M	C0603C475K8PACTU
10	2.2µF	±10%	399-4911-1-ND	4.15	25.00	4,000	85.00/M	C0603C225K8PACTU
10	2.2µF	±20%	399-4912-1-ND	4.07	24.50	4,000	83.00/M	C0603C225M8PACTU
6.3	2.2µF	±10%	399-3362-1-ND	2.20	8.80	4,000	23.65/M	C0603C225K9PACTU
6.3	3.3µF	±20%	399-5502-1-ND	3.85	20.13	4,000	64.75/M	C0603C335M9PACTU
6.3	4.7µF	±10%	399-3482-1-ND	1.80	7.20	4,000	19.35/M	C0603C475K9PACTU
6.3	10µF	±20%	399-5504-1-ND	3.98	24.00	4,000	81.60/M	C0603C106M9PACTU

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Y5V Type								
25	.1µF	+80%, -20%	399-1100-1-ND	.45	1.62	4,000	4.14/M	C0603C104Z3VACTU
25	.1µF	±20%	399-1101-1-ND	1.38	4.95	4,000	12.65/M	C0603C104M3VACTU
25	.15µF	+80%, -20%	399-1290-1-ND	2.90	15.18	4,000	49.00/M	C0603C154Z3VACTU
25	.22µF	+80%, -20%	399-1103-1-ND	3.10	16.22	4,000	52.00/M	C0603C224Z3VACTU
25	.33µF	+80%, -20%	399-1292-1-ND	3.41	17.83	4,000	57.00/M	C0603C334Z3VACTU
16	.1µF	+80%, -20%	399-1098-1-ND	.60	2.16	4,000	5.52/M	C0603C104Z4VACTU
16	.15µF	+80%, -20%	399-1289-1-ND	2.83	14.78	4,000	48.00/M	C0603C154Z4VACTU
16	.22µF	+80%, -20%	399-1102-1-ND	1.00	3.60	4,000	9.20/M	C0603C224Z4VACTU
16	.33µF	+80%, -20%	399-1291-1-ND	2.97	15.53	4,000	50.00/M	C0603C334Z4VACTU
10	.47µF	+80%, -20%	399-3218-1-ND	2.92	15.24	4,000	49.00/M	C0603C474Z8VACTU
10	.68µF	+80%, -20%	399-3220-1-ND	3.96	20.70	4,000	67.00/M	C0603C684Z8VACTU
10	1µF	+80%, -20%	399-3216-1-ND	1.00	3.60	4,000	9.20/M	C0603C105Z8VACTU
6.3	.47µF	+80%, -20%	399-3219-1-ND	2.92	15.24	4,000	49.00/M	C0603C474Z9VACTU
6.3	.68µF	+80%, -20%	399-3221-1-ND	3.96	20.70	4,000	67.00/M	C0603C684Z9VACTU
6.3	1µF	+80%, -20%	399-3217-1-ND	2.40	9.60	4,000	25.80/M	C0603C105Z9VACTU
Case Size 0805								
COG (NPO) Type								
630	47pF	±1%	399-5537-1-ND	5.25	31.60	2,500	113.76/M	C0805C470FBGACTU
630	10pF	±0.25pF	399-5538-1-ND	7.33	45.95	2,500	175.04/M	C0805C100CBGACTU
630	10pF	±5%	399-5539-1-ND	3.93	23.70	2,500	85.32/M	C0805C100JBGACTU
500	100pF	±5%	399-5102-1-ND	3.83	23.05	2,500	83.00/M	C0805C101JCGACTU
100	10pF	±5%	399-1109-1-ND	2.20	8.80	4,000	23.65/M	C0805C100J1GACTU
100	100pF	±5%	399-1123-1-ND	1.55	5.58	4,000	14.26/M	C0805C101J1GACTU
100	220pF	±5%	399-1128-1-ND	2.25	10.50	4,000	30.00/M	C0805C221J1GACTU
100	330pF	±5%	399-1131-1-ND	2.20	8.80	4,000	23.65/M	C0805C331J1GACTU
100	1000pF	±5%	399-1137-1-ND	4.07	21.28	4,000	68.00/M	C0805C102J1GACTU
50	1pF	±0.25pF	399-1104-1-ND	3.85	20.13	4,000	65.00/M	C0805C109C5GACTU
50	1.5pF	±0.25pF	399-1105-1-ND	3.85	20.13	4,000	65.00/M	C0805C159C5GACTU
50	2pF	±0.25pF	399-1106-1-ND	3.49	21.00	4,000	71.00/M	C0805C209C5GACTU
50	3pF	±0.25pF	399-1107-1-ND	3.49	21.00	4,000	71.00/M	C0805C309C5GACTU
50	10pF	±5%	399-1108-1-ND	1.38	4.95	4,000	12.65/M	C0805C100J5GACTU
50	12pF	±5%	399-1110-1-ND	1.83	6.57	4,000	16.79/M	C0805C120J5GACTU
50	15pF	±5%	399-1111-1-ND	1.80	6.48	4,000	16.56/M	C0805C150J5GACTU
50	18pF	±5%	399-1112-1-ND	1.70	6.12	4,000	15.64/M	C0805C180J5GACTU
50	22pF	±5%	399-1113-1-ND	1.00	3.60	4,000	9.20/M	C0805C220J5GACTU
50	27pF	±5%	399-1114-1-ND	1.25	4.50	4,000	11.50/M	C0805C270J5GACTU
50	33pF	±5%	399-1115-1-ND	1.10	3.96	4,000	10.12/M	C0805C330J5GACTU
50	39pF	±5%	399-1116-1-ND	1.25	4.50	4,000	11.50/M	C0805C390J5GACTU
50	47pF	±5%	399-1117-1-ND	1.03	3.69	4,000	9.43/M	C0805C470J5GACTU
50	56pF	±5%	399-1118-1-ND	1.45	5.22	4,000	13.34/M	C0805C560J5GACTU
50	68pF	±5%	399-1119-1-ND	1.25	4.50	4,000	11.50/M	C0805C680J5GACTU
50	82pF	±5%	399-1120-1-ND	1.66	6.64	4,000	17.85/M	C0805C820J5GACTU
50	100pF	±5%	399-1122-1-ND	.95	3.42	4,000	8.74/M	C0805C101J5GACTU
50	100pF	±10%	399-1121-1-ND	1.13	4.05	4,000	10.35/M	C0805C101K5GACTU
50	120pF	±5%	399-1124-1-ND	1.33	4.77	4,000	12.19/M	C0805C121J5GACTU
50	150pF	±5%	399-1125-1-ND	1.13	4.05	4,000	10.35/M	C0805C151J5GACTU
50	180pF	±5%	399-1126-1-ND	1.78	6.39	4,000	16.33/M	C0805C181J5GACTU
50	220pF	±5%	399-1127-1-ND	1.55	5.58	4,000	14.26/M	C0805C221J5GACTU
50	270pF	±5%	399-1129-1-ND	1.70	6.12	4,000	15.64/M	C0805C271J5GACTU
50	330pF	±5%	399-1130-1-ND	1.25	4.50	4,000	11.50/M	C0805C331J5GACTU
50	390pF	±5%	399-1132-1-ND	1.80	6.48	4,000	16.56/M	C0805C391J5GACTU
50	470pF	±5%	399-1133-1-ND	1.73	6.21	4,000	15.87/M	C0805C471J5GACTU
50	560pF	±5%	399-1134-1-ND	1.94	7.76	4,000	20.86/M	C0805C561J5GACTU
50	680pF	±5%	399-1135-1-ND	1.80	7.20	4,000	19.35/M	C0805C681J5GACTU
50	1000pF	±5%	399-1136-1-ND	1.63	5.85	4,000	14.95/M	C0805C102J5GACTU
X7R Type								
1000	1000pF	±10%	399-4818-1-ND	3.99	24.05	2,500	87.00/M	C0805C102KDRACTU
630	10pF	±10%	399-5567-1-ND	3.78	22.75	2,500	81.90/M	C0805C100KBRACTU
630	22pF	±10%	399-5568-1-ND	3.83	23.05	2,500	82.98/M	C0805C220KBRACTU
630	47pF	±10%	399-5569-1-ND	3.87	23.30	2,500	83.88/M	C0805C470KBRACTU
630	68pF	±10%	399-5570-1-ND	3.89	23.45	2,500	84.42/M	C0805C680KBRACTU
630	100pF	±10%	399-5571-1-ND	3.92	23.60	2,500	84.96/M	C0805C101KBRACTU
630	270pF	±10%	399-5572-1-ND	3.96	23.85	2,500	85.86/M	C0805C271KBRACTU
630	680pF	±10%	399-5573-1-ND	3.99	24.05	2,500	86.58/M	C0805C681KBRACTU
630	1000pF	±5%	399-5574-1-ND	4.32	26.05	2,500	93.78/M	C0805C102JBRACTU
630	1000pF	±10%	399-5575-1-ND	3.99	24.05	2,500	86.58/M	C0805C102KBRACTU
630	3300pF	±10%	399-5576-1-ND	4.05	24.40	2,500	87.84/M	C0805C332KBRACTU
100	1000pF	±10%	399-1148-1-ND	1.90	7.60	4,000	20.43/M	C0805C102K1RACTU
100	10000pF	±10%	399-1159-1-ND	.98	3.51	4,000	8.97/M	C0805C103K1RACTU
100	56000pF	±10%	399-3483-1-ND	3.54	18.52	2,500	64.40/M	C0805C563K1RACTU
100	68000pF	±10%	399-3484-1-ND	3.54	18.52	2,500	64.40/M	C0805C683K1RACTU
100	82000pF	±10%	399-3485-1-ND	3.54	18.52	2,500	64.40/M	C0805C823K1RACTU
100	.1µF	±10%	399-3486-1-ND	3.54	18.52	2,500	64.40/M	C0805C104K1RACTU
100	.12µF	±10%	399-3488-1-ND	3.54	18.52	2,500	64.40/M	C0805C124K1RACTU
50	220pF	±10%	399-1138-1-ND	3.63	18.98	4,000	61.00/M	C0805C221K5RACTU
50	270pF	±10%	399-1139-1-ND	3.63	18.98	4,000	61.00/M	C0805C271K5RACTU
50	330pF	±10%	399-1140-1-ND	1.33	4.77	4,000	12.19/M	C0805C331K5RACTU
50	390pF	±10%	399-1141-1-ND	3.63	18.98	4,000	61.00/M	C0805C391K5RACTU
50	470pF	±10%	399-1142-1-ND	1.30	4.68	4,000	11.96/M	C0805C471K5RACTU
50	560pF	±10%	399-1143-1-ND	2.75	14.38	4,000	46.00/M	C0805C561K5RACTU
50	680pF	±10%	399-1144-1-ND	2.75	14.38	4,000	46.00/M	C0805C681K5RACTU
50	820pF	±10%	399-1145-1-ND	2.75	14.38	4,000	46.00/M	C0805C821K5RACTU
50	1000pF	±5%	399-1149-1-ND	1.50	6.00	4,000	16.13/M	C0805C102J5RACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND ***✔ NEW!***

NOTE**: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.** *(Continued)*

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
50	1000pF	±10%	399-1147-1-ND	.78	2.79	4,000	7.13/M	C0805C102K5RACTU
50	1000pF	±20%	399-1146-1-ND	1.13	4.05	4,000	10.35/M	C0805C102M5RACTU
50	1500pF	±10%	399-1150-1-ND	2.20	8.80	4,000	23.65/M	C0805C152K5RACTU
50	2200pF	±10%	399-1151-1-ND	.85	3.06	4,000	7.82/M	C0805C222K5RACTU
50	2700pF	±10%	399-1152-1-ND	2.40	9.60	4,000	25.80/M	C0805C272K5RACTU
50	3300pF	±10%	399-1153-1-ND	1.05	3.78	4,000	9.66/M	C0805C332K5RACTU
50	3900pF	±10%	399-1154-1-ND	1.15	4.14	4,000	10.58/M	C0805C392K5RACTU
50	4700pF	±10%	399-1155-1-ND	.98	3.51	4,000	8.97/M	C0805C472K5RACTU
50	5600pF	±10%	399-1156-1-ND	2.20	8.80	4,000	23.65/M	C0805C562K5RACTU
50	6800pF	±10%	399-1157-1-ND	1.50	5.40	4,000	13.80/M	C0805C682K5RACTU
50	10000pF	±10%	399-1158-1-ND	.70	2.52	4,000	6.44/M	C0805C103K5RACTU
50	10000pF	±20%	399-1160-1-ND	.75	2.70	4,000	6.90/M	C0805C103M5RACTU
50	15000pF	±10%	399-1161-1-ND	1.05	3.78	4,000	9.66/M	C0805C153K5RACTU
50	18000pF	±10%	399-1162-1-ND	2.20	8.80	4,000	23.65/M	C0805C183K5RACTU
50	22000pF	±10%	399-1163-1-ND	1.33	4.77	4,000	12.19/M	C0805C223K5RACTU
50	27000pF	±10%	399-1164-1-ND	1.53	5.49	4,000	14.03/M	C0805C273K5RACTU
50	33000pF	±10%	399-1165-1-ND	1.48	5.31	4,000	13.57/M	C0805C333K5RACTU
50	47000pF	±10%	399-1166-1-ND	1.20	4.32	4,000	11.04/M	C0805C473K5RACTU
50	.068µF	±10%	399-5623-1-ND✔	2.70	10.80	4,000	29.03/M	C0805C683K5RACTU
50	.1µF	±5%	399-1171-1-ND	2.20	8.80	4,000	23.65/M	C0805C104J5RACTU
50	.1µF	±10%	399-1170-1-ND	1.05	3.78	4,000	9.66/M	C0805C104K5RACTU
50	.1µF	±20%	399-1169-1-ND	1.05	3.78	4,000	9.66/M	C0805C104M5RACTU
50	.12µF	±10%	399-3487-1-ND	4.82	29.05	4,000	99.00/M	C0805C124K5RACTU
50	.15µF	±10%	399-3489-1-ND	5.20	31.35	4,000	107.00/M	C0805C154K5RACTU
50	.18µF	±10%	399-3490-1-ND	5.71	34.40	4,000	117.00/M	C0805C184K5RACTU
50	.22µF	±10%	399-3491-1-ND	1.90	7.60	4,000	20.43/M	C0805C224K5RACTU
25	.1µF	±10%	399-1168-1-ND	1.03	3.69	4,000	9.43/M	C0805C104K3RACTU
25	.56µF	±10%	399-3492-1-ND	7.00	43.89	2,500	167.00/M	C0805C564K3RACTU
16	.1µF	±10%	399-1167-1-ND	1.50	6.00	4,000	16.13/M	C0805C104K4RACTU
16	1µF	±10%	399-1284-1-ND	4.13	14.85	4,000	37.95/M	C0805C105K4RACTU
16	1.2µF	±10%	399-4927-1-ND	8.04	50.40	2,500	192.00/M	C0805C125K4RACTU
16	1.5µF	±10%	399-4930-1-ND	8.04	50.40	2,500	192.00/M	C0805C155K4RACTU
16	1.8µF	±10%	399-4933-1-ND	8.04	50.40	2,500	192.00/M	C0805C185K4RACTU
16	2.2µF	±10%	399-3523-1-ND	3.74	22.50	2,500	81.00/M	C0805C225K4RACTU
10	1µF	±10%	399-1172-1-ND	2.25	10.50	4,000	30.00/M	C0805C105K8RACTU
10	1.2µF	±10%	399-4928-1-ND	6.37	39.90	2,500	152.00/M	C0805C125K8RACTU
10	1.5µF	±10%	399-4931-1-ND	6.37	39.90	2,500	152.00/M	C0805C155K8RACTU
10	1.8µF	±10%	399-4934-1-ND	6.37	39.90	2,500	152.00/M	C0805C185K8RACTU
10	2.2µF	±10%	399-3522-1-ND	2.25	10.50	2,500	33.00/M	C0805C225K8RACTU
6.3	1.2µF	±10%	399-4929-1-ND	6.37	39.90	2,500	152.00/M	C0805C125K9RACTU
6.3	1.5µF	±10%	399-4932-1-ND	6.37	39.90	2,500	152.00/M	C0805C155K9RACTU
6.3	1.8µF	±10%	399-4935-1-ND	6.37	39.90	2,500	152.00/M	C0805C185K9RACTU
6.3	2.2µF	±10%	399-4936-1-ND	3.52	18.40	2,500	64.00/M	C0805C225K9RACTU
X5R Type								
25	4.7µF	±10%	399-5505-1-ND	3.30	17.25	2,500	60.00/M	C0805C475K3PACTU
10	1.2µF	±10%	399-3119-1-ND	3.40	20.50	4,000	70.00/M	C0805C125K8PACTU
10	1.5µF	±10%	399-3121-1-ND	3.57	21.50	4,000	73.00/M	C0805C155K8PACTU
10	1.8µF	±10%	399-3123-1-ND	3.74	22.50	4,000	77.00/M	C0805C185K8PACTU
10	2.2µF	±10%	399-3125-1-ND	3.30	17.25	4,000	56.00/M	C0805C225K8PACTU
10	2.7µF	±10%	399-3127-1-ND	5.30	31.90	4,000	108.00/M	C0805C275K8PACTU
10	3.3µF	±10%	399-3129-1-ND	2.86	14.95	2,500	52.00/M	C0805C335K8PACTU
10	3.9µF	±10%	399-3131-1-ND	5.30	31.90	2,500	115.00/M	C0805C395K8PACTU
10	4.7µF	±10%	399-3133-1-ND	2.25	10.50	2,500	33.00/M	C0805C475K8PACTU
10	10µF	±10%	399-4925-1-ND	3.68	17.15	3,000	54.00/M	C0805C106K8PACTU
10	10µF	±20%	399-4926-1-ND	7.71	48.30	2,500	184.00/M	C0805C106M8PACTU
6.3	1.2µF	±10%	399-3120-1-ND	3.40	20.50	4,000	70.00/M	C0805C125K9PACTU
6.3	1.5µF	±10%	399-3122-1-ND	3.57	21.50	4,000	73.00/M	C0805C155K9PACTU
6.3	1.8µF	±10%	399-3124-1-ND	3.74	22.50	4,000	77.00/M	C0805C185K9PACTU
6.3	2.2µF	±10%	399-3126-1-ND	3.42	17.88	4,000	58.00/M	C0805C225K9PACTU
6.3	3.3µF	±10%	399-3130-1-ND	5.30	31.90	2,500	115.00/M	C0805C335K9PACTU
6.3	3.9µF	±10%	399-3132-1-ND	5.30	31.90	2,500	115.00/M	C0805C395K9PACTU
6.3	4.7µF	±10%	399-3134-1-ND	2.40	9.60	2,500	28.20/M	C0805C475K9PACTU
6.3	5.6µF	±10%	399-3135-1-ND	6.96	47.27	2,500	197.00/M	C0805C565K9PACTU
6.3	6.8µF	±10%	399-3136-1-ND	8.00	54.36	2,500	227.00/M	C0805C685K9PACTU
6.3	10µF	±10%	399-3138-1-ND	3.30	15.40	3,000	48.40/M	C0805C106K9PACTU
6.3	22µF	±20%	399-4696-1-ND	4.07	24.50	2,500	88.00/M	C0805C226M9PACTU
6.3	22µF	±20%	399-5621-1-ND†	4.69	29.40	4,000	105.00/M	C0805L226M9PACTU
6.3	47µF	±20%	399-5506-1-ND	10.66	85.80	2,500	364.00/M	C0805C476M9PACTU
Y5V Type								
50	.1µF	+80%, -20%	399-1177-1-ND	1.30	4.68	4,000	11.96/M	C0805C104Z5VACTU
25	1µF	+80%, -20%	399-1293-1-ND	2.00	8.00	2,500	23.50/M	C0805C105Z3VACTU
16	1.5µF	+80%, -20%	399-1294-1-ND	4.93	29.70	4,000	101.00/M	C0805C155Z4VACTU
16	2.2µF	+80%, -20%	399-1295-1-ND	2.40	9.60	4,000	25.80/M	C0805C225Z4VACTU
10	3.3µF	+80%, -20%	399-3222-1-ND	5.63	35.28	2,500	134.00/M	C0805C335Z8VACTU
10	4.7µF	+80%, -20%	399-3224-1-ND	6.30	39.48	2,500	150.00/M	C0805C475Z8VACTU
6.3	3.3µF	+80%, -20%	399-3223-1-ND	5.63	35.28	2,500	134.00/M	C0805C335Z9VACTU
6.3	4.7µF	+80%, -20%	399-3225-1-ND	6.30	39.48	2,500	150.00/M	C0805C475Z9VACTU
6.3	10µF	+80%, -20%	399-3295-1-ND	3.12	14.56	3,000	45.76/M	C0805C106Z9VACTU
Z5U Type								
50	10000pF	+80%, -20%	399-1173-1-ND	1.45	5.22	4,000	13.34/M	C0805C103Z5UACTU
50	10000pF	±20%	399-1174-1-ND	1.45	5.22	4,000	13.34/M	C0805C103M5UACTU
50	.1µF	+80%, -20%	399-1175-1-ND	1.70	6.12	4,000	15.64/M	C0805C104Z5UACTU
50	.1µF	±20%	399-1176-1-ND	1.35	4.86	4,000	12.42/M	C0805C104M5UACTU

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Case Size 1206								
COG (NPO) Type								
630	10pF	±0.25pF	399-5540-1-ND	13.28	106.92	2,000	453.60/M	C1206C100CBGACTU
630	10pF	±5%	399-5541-1-ND	7.44	50.54	2,000	210.60/M	C1206C100JBGACTU
630	47pF	±5%	399-5542-1-ND	7.59	51.59	2,000	214.95/M	C1206C470JBGACTU
630	100pF	±5%	399-5543-1-ND	3.30	17.25	2,500	60.00/M	C1206C101JBGACTU
630	330pF	±5%	399-5544-1-ND	3.30	17.25	2,000	220.35/M	C1206C331JBGACTU
630	470pF	±5%	399-5545-1-ND	7.83	53.17	2,000	221.55/M	C1206C471JBGACTU
500	330pF	±10%	399-5105-1-ND	8.57	53.72	2,500	205.00/M	C1206C331KCGACTU
100	100pF	±5%	399-1206-1-ND	2.40	9.60	4,000	25.80/M	C1206C101J1GACTU
100	470pF	±5%	399-1214-1-ND	4.12	24.80	4,000	84.00/M	C1206C471J1GACTU
100	1000pF	±5%	399-1219-1-ND	3.85	20.13	4,000	65.00/M	C1206C102J1GACTU
50	1pF	±0.25pF	399-1178-1-ND	5.49	33.10	4,000	113.00/M	C1206C109C5GACTU
50	1.5pF	±0.25pF	399-1179-1-ND	5.49	33.10	4,000	113.00/M	C1206C159C5GACTU
50	1.8pF	±0.25pF	399-1180-1-ND	5.49	33.10	4,000	113.00/M	C1206C189C5GACTU
50	2.2pF	±0.25pF	399-1181-1-ND	5.49	33.10	4,000	113.00/M	C1206C229C5GACTU
50	2.7pF	±0.25pF	399-1182-1-ND	5.49	33.10	4,000	113.00/M	C1206C279C5GACTU
50	3.3pF	±0.25pF	399-1183-1-ND	5.49	33.10	4,000	113.00/M	C1206C339C5GACTU
50	3.9pF	±0.25pF	399-1184-1-ND	5.49	33.10	4,000	113.00/M	C1206C399C5GACTU
50	4.7pF	±0.25pF	399-1185-1-ND	5.49	33.10	4,000	113.00/M	C1206C479C5GACTU
50	5.1pF	±0.25pF	399-1186-1-ND	6.42	40.24	4,000	144.00/M	C1206C519C5GACTU
50	5.6pF	±0.25pF	399-1187-1-ND	5.35	33.52	4,000	120.00/M	C1206C569C5GACTU
50	6.8pF	±0.5pF	399-1188-1-ND	4.16	21.74	4,000	70.00/M	C1206C689D5GACTU
50	7.5pF	±0.5pF	399-1189-1-ND	3.77	22.70	4,000	77.00/M	C1206C759D5GACTU
50	8.2pF	±0.5pF	399-1190-1-ND	4.16	21.74	4,000	70.00/M	C1206C829D5GACTU
50	9.1pF	±0.5pF	399-1191-1-ND	3.77	22.70	4,000	77.00/M	C1206C919D5GACTU
50	10pF	±5%	399-1192-1-ND	2.33	10.85	4,000	31.00/M	C1206C100J5GACTU
50	12pF	±5%	399-1193-1-ND	2.33	10.85	4,000	31.00/M	C1206C120J5GACTU
50	15pF	±5%	399-1194-1-ND	2.33	10.85	4,000	31.00/M	C1206C150J5GACTU
50	18pF	±5%	399-1195-1-ND	2.33	10.85	4,000	31.00/M	C1206C180J5GACTU
50	20pF	±5%	399-1196-1-ND	3.77	22.70	4,000	77.00/M	C1206C200J5GACTU
50	22pF	±5%	399-1197-1-ND	2.33	10.85	4,000	31.00/M	C1206C220J5GACTU
50	27pF	±5%	399-1198-1-ND	2.33	10.85	4,000	31.00/M	C1206C270J5GACTU
50	33pF	±5%	399-1199-1-ND	2.33	10.85	4,000	31.00/M	C1206C330J5GACTU
50	39pF	±5%	399-1200-1-ND	4.16	21.74	4,000	70.00/M	C1206C390J5GACTU
50	47pF	±5%	399-1201-1-ND	2.33	10.85	4,000	31.00/M	C1206C470J5GACTU
50	51pF	±5%	399-1202-1-ND	3.77	22.70	4,000	77.00/M	C1206C510J5GACTU
50	56pF	±5%	399-1203-1-ND	4.16	21.74	4,000	70.00/M	C1206C560J5GACTU
50	68pF	±5%	399-1204-1-ND	4.16	21.74	4,000	70.00/M	C1206C680J5GACTU
50	100pF	±5%	399-1205-1-ND	2.33	10.85	4,000	31.00/M	C1206C101J5GACTU
50	120pF	±5%	399-1207-1-ND	4.16	21.74	4,000	70.00/M	C1206C121J5GACTU
50	220pF	±10%	399-1208-1-ND	4.28	22.37	4,000	72.00/M	C1206C221K5GACTU
50	270pF	±10%	399-1209-1-ND	4.39	22.94	4,000	74.00/M	C1206C271K5GACTU
50	330pF	±10%	399-1210-1-ND	4.39	22.94	4,000	74.00/M	C1206C331K5GACTU
50	390pF	±10%	399-1211-1-ND	3.40	20.50	4,000	70.00/M	C1206C391K5GACTU
50	470pF	±5%	399-1213-1-ND	3.00	14.00	4,000	40.00/M	C1206C471J5GACTU
50	470pF	±10%	399-1212-1-ND	3.40	20.50	4,000	70.00/M	C1206C471K5GACTU
50	560pF	±10%	399-1215-1-ND	3.58	21.55	4,000	73.00/M	C1206C561K5GACTU
50	680pF	±10%	399-1216-1-ND	3.75	22.60	4,000	77.00/M	C1206C681K5GACTU
50	820pF	±10%	399-1217-1-ND	3.93	23.65	4,000	80.00/M	C1206C821K5GACTU
50	1000pF	±5%	399-1218-1-ND	2.48	11.55	4,000	33.00/M	C1206C102J5GACTU
50	4700pF	±5%	399-3503-1-ND	5.98	37.51	4,000	134.00/M	C1206C472J5GACTU
X7R Type								
2000	1000pF	±10%	399-4819-1-ND	8.60	58.39	2,000	243.00/M	C1206C102KGRACTU
1500	470pF	±5%	399-5104-1-ND	8.75	59.40	2,500	248.00/M	C1206C471KFRACTU
1000	1000pF	±10%	399-3437-1-ND	3.52	18.40	2,500	64.00/M	C1206C102KDRACTU
1000	4700pF	±10%	399-4820-1-ND	3.73	19.49	2,500	68.00/M	C1206C472KDRACTU
630	27pF	±10%	399-5577-1-ND	7.35	49.90	2,000	207.90/M	C1206C270KBRACTU
630	47pF	±10%	399-5578-1-ND	7.41	50.36	2,000	209.85/M	C1206C470KBRACTU
630	68pF	±10%	399-5579-1-ND	7.46	50.65	2,000	211.05/M	C1206C680KBRACTU
630	100pF	±10%	399-5580-1-ND	7.50	50.98	2,000	212.40/M	C1206C101KBRACTU
630	270pF	±10%	399-5581-1-ND	7.58	51.52	2,500	214.66/M	C1206C271KBRACTU
630	470pF	±10%	399-5582-1-ND	7.62	51.73	2,500	215.56/M	C1206C471KBRACTU
630	680pF	±10%	399-5583-1-ND	7.64	51.88	2,500	216.16/M	C1206C681KBRACTU
630	1000pF	±5%	399-5584-1-ND	8.30	56.38	2,500	234.90/M	C1206C102JBRACTU
630	1000pF	±10%	399-5585-1-ND	3.52	18.40	2,500	64.00/M	C1206C102KBRACTU
630	2700pF	±10%	399-5586-1-ND	7.72	52.45	2,500	218.56/M	C1206C272KBRACTU
630	3300pF	±10%	399-5587-1-ND	7.73	52.52	2,500	218.86/M	C1206C332KBRACTU
630	4700pF	±10%	399-5588-1-ND	3.73	19.49	2,500	67.80/M	C1206C472KBRACTU
630	10000pF	±10%	399-5589-1-ND	8.16	55.44	2,000	231.00/M	C1206C103KBRACTU
500	1000pF	±10%	399-3436-1-ND	3.32	20.00	2,500	72.00/M	C1206C102KCRACTU
500	4700pF	±10%	399-5103-1-ND	7.31	49.68	3,000	207.00/M	C1206C472KCRACTU
500	10000pF	±10%	399-3438-1-ND	5.03	31.50	2,000	120.00/M	C1206C103KCRACTU
100	1000pF	±10%	399-1222-1-ND	2.55	11.90	4,000	34.00/M	C1206C102K1RACTU
100	10000pF	±5%	399-1238-1-ND	2.70	12.60	4,000	36.00/M	C1206C103J1RACTU
100	10000pF	±10%	399-1236-1-ND	2.40	9.60	4,000	25.80/M	C1206C103K1RACTU
100	10000pF	±20%	399-1235-1-ND	2.40	9.60	4,000	25.80/M	C1206C103M1RACTU
100	56000pF	±10%	399-1802-1-ND	4.18	25.20	4,000	86.00/M	C1206C563K1RACTU
100	68000pF	±10%	399-1803-1-ND	4.53	27.30	4,000	93.00/M	C1206C683K1RACTU
100	82000pF	±10%	399-1804-1-ND	4.76	28.70	4,000	98.00/M	C1206C823K1RACTU
100	.1µF	±10%	399-1805-1-ND	3.00	14.00	4,000	40.00/M	C1206C104K1RACTU
100	.27µF	±10%	399-3494-1-ND	8.05	50.44	2,500	192.00/M	C1206C274K1RACTU
100	.39µF	±10%	399-3497-1-ND	7.70	52.31	2,000	218.00/M	C1206C394K1RACTU
50	1000pF	±10%	399-1221-1-ND	2.40	9.60	4,000	25.80/M	C1206C102K5RACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND ✔ ***NEW!***

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
50	1200pF	±10%	399-1223-1-ND	3.30	17.25	4,000	56.00/M	C1206C122K5RACTU
50	1500pF	±10%	399-1224-1-ND	3.30	17.25	4,000	56.00/M	C1206C152K5RACTU
50	1800pF	±10%	399-1225-1-ND	3.30	17.25	4,000	56.00/M	C1206C182K5RACTU
50	2200pF	±10%	399-1226-1-ND	2.33	10.85	4,000	31.00/M	C1206C222K5RACTU
50	2700pF	±10%	399-1227-1-ND	3.30	17.25	4,000	56.00/M	C1206C272K5RACTU
50	3300pF	±10%	399-1228-1-ND	3.30	17.25	4,000	56.00/M	C1206C332K5RACTU
50	3900pF	±10%	399-1229-1-ND	3.30	17.25	4,000	56.00/M	C1206C392K5RACTU
50	4700pF	±10%	399-1230-1-ND	2.33	10.85	4,000	31.00/M	C1206C472K5RACTU
50	5600pF	±10%	399-1231-1-ND	3.30	17.25	4,000	56.00/M	C1206C562K5RACTU
50	6800pF	±10%	399-1232-1-ND	3.30	17.25	4,000	56.00/M	C1206C682K5RACTU
50	8200pF	±10%	399-1233-1-ND	3.30	17.25	4,000	56.00/M	C1206C822K5RACTU
50	10000pF	±5%	399-1237-1-ND	2.25	10.50	4,000	30.00/M	C1206C103J5RACTU
50	10000pF	±10%	399-1234-1-ND	2.20	8.80	4,000	23.65/M	C1206C103K5RACTU
50	12000pF	±10%	399-1239-1-ND	3.74	19.55	4,000	63.00/M	C1206C123K5RACTU
50	15000pF	±10%	399-1240-1-ND	3.74	19.55	4,000	63.00/M	C1206C153K5RACTU
50	18000pF	±10%	399-1241-1-ND	3.74	19.55	4,000	63.00/M	C1206C183K5RACTU
50	22000pF	±10%	399-1242-1-ND	2.25	10.50	4,000	30.00/M	C1206C223K5RACTU
50	27000pF	±10%	399-1243-1-ND	3.74	19.55	4,000	63.00/M	C1206C273K5RACTU
50	33000pF	±10%	399-1244-1-ND	3.74	19.55	4,000	63.00/M	C1206C333K5RACTU
50	39000pF	±10%	399-1245-1-ND	3.85	20.13	4,000	65.00/M	C1206C393K5RACTU
50	47000pF	±10%	399-1246-1-ND	2.44	9.76	4,000	26.23/M	C1206C473K5RACTU
50	68000pF	±5%	399-1247-1-ND	4.03	21.05	4,000	68.00/M	C1206C683J5RACTU
50	.1µF	±5%	399-1250-1-ND	3.45	16.10	4,000	46.00/M	C1206C104J5RACTU
50	.1µF	±10%	399-1249-1-ND	1.50	5.40	4,000	13.80/M	C1206C104K5RACTU
50	.1µF	±20%	399-1248-1-ND	1.63	5.85	4,000	14.95/M	C1206C104M5RACTU
50	.22µF	±5%	399-1252-1-ND	8.38	52.50	4,000	188.00/M	C1206C224J5RACTU
50	.22µF	±10%	399-1251-1-ND	2.60	10.40	4,000	27.95/M	C1206C224K5RACTU
50	.27µF	±10%	399-3493-1-ND	5.70	35.70	4,000	128.00/M	C1206C274K5RACTU
50	.33µF	±10%	399-3495-1-ND	6.03	37.80	4,000	135.00/M	C1206C334K5RACTU
50	.39µF	±10%	399-3496-1-ND	6.37	39.90	4,000	143.00/M	C1206C394K5RACTU
50	.47µF	±10%	399-3498-1-ND	3.50	21.10	4,000	72.00/M	C1206C474K5RACTU
50	.56µF	±10%	399-3499-1-ND	7.74	48.51	4,000	173.00/M	C1206C564K5RACTU
50	.68µF	±10%	399-3500-1-ND	7.87	53.46	2,500	223.00/M	C1206C684K5RACTU
25	.33µF	±10%	399-1285-1-ND	2.85	13.30	4,000	38.00/M	C1206C334K3RACTU
25	1µF	±10%	399-1255-1-ND	2.40	11.20	2,000	35.20/M	C1206C105K3RACTU
25	1.2µF	±10%	399-3501-1-ND	7.10	48.24	2,000	201.00/M	C1206C125K3RACTU
25	1.5µF	±10%	399-3502-1-ND	7.53	51.12	2,000	213.00/M	C1206C155K3RACTU
16	.33µF	±10%	399-1253-1-ND	3.00	14.00	4,000	40.00/M	C1206C334K4RACTU
16	1µF	±10%	399-1254-1-ND	2.42	9.68	2,500	28.44/M	C1206C105K4RACTU
16	1.2µF	±10%	399-1286-1-ND	6.89	46.80	2,500	195.00/M	C1206C125K4RACTU
16	2.2µF	±10%	399-1257-1-ND	3.30	17.25	2,500	60.00/M	C1206C225K4RACTU
16	2.7µF	±10%	399-4941-1-ND	8.48	57.60	4,000	224.00/M	C1206C275K4RACTU
16	3.3µF	±10%	399-4944-1-ND	4.66	28.10	2,500	101.00/M	C1206C335K4RACTU
16	3.9µF	±10%	399-4947-1-ND	9.01	61.20	2,000	255.00/M	C1206C395K4RACTU
16	4.7µF	±10%	399-3524-1-ND	4.18	21.85	2,500	76.00/M	C1206C475K4RACTU
16	5.6µF	±10%	399-4952-1-ND	8.93	65.55	2,000	276.00/M	C1206C565K4RACTU
16	6.8µF	±10%	399-4955-1-ND	9.40	69.00	2,000	290.00/M	C1206C685K4RACTU
16	8.2µF	±20%	399-4960-1-ND	9.87	72.45	2,000	305.00/M	C1206C825M4RACTU
16	10µF	±10%	399-3525-1-ND	4.15	25.00	2,000	90.00/M	C1206C106K4RACTU
16	10µF	±20%	399-4939-1-ND	4.15	25.00	2,000	90.00/M	C1206C106M4RACTU
10	1.2µF	±10%	399-1256-1-ND	6.89	46.80	2,500	195.00/M	C1206C125K8RACTU
10	2.7µF	±10%	399-4942-1-ND	8.48	57.60	2,000	240.00/M	C1206C275K8RACTU
10	3.3µF	±10%	399-4945-1-ND	9.01	61.20	2,500	255.00/M	C1206C335K8RACTU
10	3.9µF	±10%	399-4948-1-ND	9.01	61.20	2,500	255.00/M	C1206C395K8RACTU
10	4.7µF	±10%	399-4950-1-ND	4.57	27.50	2,500	99.00/M	C1206C475K8RACTU
10	5.6µF	±10%	399-4953-1-ND	8.46	62.10	2,000	261.00/M	C1206C565K8RACTU
10	6.8µF	±10%	399-4956-1-ND	8.93	65.55	2,000	276.00/M	C1206C685K8RACTU
10	8.2µF	±10%	399-4958-1-ND	9.40	69.00	2,000	290.00/M	C1206C825K8RACTU
10	10µF	±10%	399-4937-1-ND	6.31	38.00	2,000	137.00/M	C1206C106K8RACTU
6.3	2.7µF	±10%	399-4943-1-ND	8.48	57.60	4,000	224.00/M	C1206C275K9RACTU
6.3	3.3µF	±10%	399-4946-1-ND	9.01	61.20	2,500	255.00/M	C1206C335K9RACTU
6.3	3.9µF	±10%	399-4949-1-ND	9.01	61.20	2,500	255.00/M	C1206C395K9RACTU
6.3	4.7µF	±10%	399-4951-1-ND	4.98	30.00	2,500	108.00/M	C1206C475K9RACTU
6.3	5.6µF	±10%	399-4954-1-ND	8.46	62.10	2,000	261.00/M	C1206C565K9RACTU
6.3	6.8µF	±10%	399-4957-1-ND	8.93	65.55	2,000	276.00/M	C1206C685K9RACTU
6.3	8.2µF	±10%	399-4959-1-ND	9.40	69.00	2,000	290.00/M	C1206C825K9RACTU
6.3	10µF	±10%	399-4938-1-ND	6.15	37.05	2,000	133.00/M	C1206C106K9RACTU
X5R Type								
50	4.7µF	±10%	399-5507-1-ND	5.40	32.50	2,000	117.00/M	C1206C475K5PACTU
25	2.7µF	±10%	399-3139-1-ND	6.03	37.80	2,500	144.00/M	C1206C275K3PACTU
25	3.3µF	±10%	399-3140-1-ND	3.98	23.95	2,000	86.22/M	C1206C335K3PACTU
25	3.9µF	±10%	399-3141-1-ND	6.70	42.00	2,000	160.00/M	C1206C395K3PACTU
25	4.7µF	±10%	399-3142-1-ND	5.03	31.50	2,000	120.00/M	C1206C475K3PACTU
25	4.7µF	±10%	399-5622-1-ND†	7.95	54.00	2,000	225.00/M	C1206L475K3PACTU
16	2.2µF	±10%	399-1263-1-ND	3.30	17.25	2,500	60.00/M	C1206C225K4PACTU
16	3.3µF	±10%	399-1264-1-ND	6.70	42.00	2,000	160.00/M	C1206C335K4PACTU
16	4.7µF	±10%	399-1265-1-ND	3.72	17.36	2,000	54.56/M	C1206C475K4PACTU
16	10µF	±10%	399-5091-1-ND	3.85	20.13	2,000	70.00/M	C1206C106K4PACTU
10	22µF	±20%	399-5500-1-ND	7.91	49.56	2,000	188.80/M	C1206C226M8PACTU
10	47µF	±20%	399-5508-1-ND	10.29	75.56	2,000	317.55/M	C1206C476M8PACTU
6.3	6.8µF	±10%	399-3025-1-ND	7.21	48.96	2,000	204.00/M	C1206C685K9PACTU
6.3	10µF	±10%	399-3029-1-ND	3.00	14.00	2,000	44.00/M	C1206C106K9PACTU
6.3	18µF	±10%	399-3228-1-ND	9.17	67.28	—	—	C1206C186K9PACTU
6.3	22µF	±10%	399-3229-1-ND	5.64	34.00	2,000	122.00/M	C1206C226K9PACTU
6.3	47µF	±20%	399-4695-1-ND	7.95	54.00	2,000	225.00/M	C1206C476M9PACTU
6.3	100µF	±20%	399-5620-1-ND	13.53	108.90	2,000	462.00/M	C1206C107M9PACTU

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Y5V Type								
25	1µF	+80%, -20%	399-1296-1-ND	2.25	10.50	2,000	33.00/M	C1206C105Z3VACTU
16	1.5µF	+80%, -20%	399-1297-1-ND	5.03	31.50	4,000	113.00/M	C1206C155Z4VACTU
16	2.2µF	+80%, -20%	399-1260-1-ND	2.88	15.07	2,500	52.40/M	C1206C225Z4VACTU
16	3.3µF	+80%, -20%	399-1261-1-ND	5.90	36.96	2,500	141.00/M	C1206C335Z4VACTU
16	4.7µF	+80%, -20%	399-1262-1-ND	2.80	11.20	2,500	32.90/M	C1206C475Z4VACTU
10	6.8µF	+80%, -20%	399-1298-1-ND	7.96	49.90	2,000	190.00/M	C1206C685Z8VACTU
10	10µF	+80%, -20%	399-1299-1-ND	2.40	11.20	2,000	35.20/M	C1206C106Z8VACTU
6.3	22µF	+80%, -20%	399-3028-1-ND	4.57	27.50	2,000	99.00/M	C1206C226Z9VACTU
Z5U Type								
50	.1µF	+80%, -20%	399-1258-1-ND	2.20	8.80	4,000	23.65/M	C1206C104Z5UACTU
50	.1µF	±20%	399-1259-1-ND	2.20	8.80	4,000	23.65/M	C1206C104M5UACTU
Case Size 1210								
COG (NPO) Type								
630	100pF	±5%	399-5546-1-ND	12.19	98.11	2,000	416.22/M	C1210C101JBGACTU
630	330pF	±5%	399-5547-1-ND	12.37	99.59	2,500	422.52/M	C1210C331JBGACTU
630	1000pF	±1%	399-5548-1-ND	16.43	132.23	2,000	560.98/M	C1210C102FBGACTU
630	1000pF	±5%	399-5549-1-ND	12.56	101.11	2,000	428.96/M	C1210C102JBGACTU
50	10000pF	±5%	399-1266-1-ND	12.96	104.31	2,500	443.00/M	C1210C103J5GACTU
X7R Type								
2000	100pF	±10%	399-3439-1-ND	8.04	50.40	2,000	192.00/M	C1210C101KGRACTU
2000	680pF	±10%	399-3441-1-ND	8.04	50.40	2,000	192.00/M	C1210C681KGRACTU
2000	1800pF	±5%	399-4821-1-ND	11.00	88.51	2,000	375.00/M	C1210C182JGRACTU
2000	2200pF	±5%	399-4822-1-ND	11.00	88.51	2,000	375.00/M	C1210C222JGRACTU
1500	220pF	±10%	399-3440-1-ND	8.04	50.40	2,000	192.00/M	C1210C221KFRACTU
1000	10000pF	±5%	399-5106-1-ND	11.41	83.73	2,000	352.00/M	C1210C103JDRACTU
630	100pF	±10%	399-5590-1-ND	10.12	74.31	2,000	312.33/M	C1210C101KBRACTU
630	470pF	±10%	399-5591-1-ND	10.28	75.45	2,000	317.12/M	C1210C471KBRACTU
630	1000pF	±5%	399-5592-1-ND	11.20	82.21	2,000	345.54/M	C1210C102JBRACTU
630	1000pF	±10%	399-5593-1-ND	10.34	75.90	2,000	319.00/M	C1210C102KBRACTU
630	2700pF	±10%	399-5594-1-ND	10.42	76.49	2,000	321.47/M	C1210C272KBRACTU
630	4700pF	±10%	399-5595-1-ND	10.47	76.83	2,000	322.92/M	C1210C472KBRACTU
630	10000pF	±10%	399-5596-1-ND	10.53	77.28	2,000	324.80/M	C1210C103KBRACTU
630	27000pF	±10%	399-5597-1-ND	10.60	77.83	2,000	327.12/M	C1210C273KBRACTU
100	.1µF	±10%	399-1268-1-ND	4.07	21.28	4,000	68.00/M	C1210C104K1RACTU
100	2.2µF	±10%	399-5511-1-ND	8.38	52.50	2,000	200.00/M	C1210C225K1RACTU
50	.1µF	±10%	399-1267-1-ND	3.63	18.98	4,000	61.00/M	C1210C104K5RACTU
50	.22µF	±10%	399-1269-1-ND	3.32	20.00	4,000	68.00/M	C1210C224K5RACTU
50	.39µF	±10%	399-3087-1-ND	8.75	59.40	4,000	231.00/M	C1210C394K5RACTU
50	.47µF	±10%	399-3089-1-ND	8.75	59.40	4,000	231.00/M	C1210C474K5RACTU
50	.56µF	±10%	399-3091-1-ND	8.75	59.40	4,000	231.00/M	C1210C564K5RACTU
50	.68µF	±10%	399-3092-1-ND	8.75	59.40	4,000	231.00/M	C1210C684K5RACTU
50	.82µF	±10%	399-3093-1-ND	8.46	62.10	2,500	261.00/M	C1210C824K5RACTU
50	1µF	±10%	399-3076-1-ND	5.19	31.25	2,000	113.00/M	C1210C105K5RACTU
25	1.2µF	±10%	399-3078-1-ND	8.46	62.10	4,000	248.00/M	C1210C125K3RACTU
25	1.5µF	±10%	399-3080-1-ND	8.46	62.10	2,000	261.00/M	C1210C155K3RACTU
25	1.8µF	±10%	399-3082-1-ND	7.95	54.00	2,000	225.00/M	C1210C185K3RACTU
25	2.2µF	±10%	399-3084-1-ND	5.36	33.60	2,000	128.00/M	C1210C225K3RACTU
10	22µF	±10%	399-5513-1-ND	7.95	54.00	1,000	240.00	C1210C226K8RACTU
6.3	22µF	±10%	399-5512-1-ND	7.95	54.00	1,000	240.00	C1210C226K9RACTU
6.3	47µF	±20%	399-5516-1-ND	19.84	159.72	1,500	726.00/M	C1210C476M9RACTU
X5R Type								
35	10µF	±20%	399-5509-1-ND	7.42	50.40	2,000	210.00/M	C1210C106M6PACTU
25	1.2µF	±10%	399-3077-1-ND	5.70	35.70	2,000	136.00/M	C1210C125K3PACTU
25	1.5µF	±10%	399-3079-1-ND	5.70	35.70	2,000	136.00/M	C1210C155K3PACTU
25	1.8µF	±10%	399-3081-1-ND	5.70	35.70	4,000	128.00/M	C1210C185K3PACTU
25	2.2µF	±10%	399-3083-1-ND	6.70	42.00	2,500	160.00/M	C1210C225K3PACTU
25	2.7µF	±10%	399-3143-1-ND	7.16	48.60	2,500	203.00/M	C1210C275K3PACTU
25	3.3µF	±10%	399-3144-1-ND	7.16	48.60	2,000	203.00/M	C1210C335K3PACTU
25	3.9µF	±10%	399-3145-1-ND	8.75	59.40	2,000	248.00/M	C1210C395K3PACTU
25	4.7µF	±10%	399-3146-1-ND	8.04	50.40	2,000	192.00/M	C1210C475K3PACTU
16	2.7µF	±10%	399-3085-1-ND	7.16	48.60	2,500	203.00/M	C1210C275K4PACTU
16	3.3µF	±10%	399-3086-1-ND	7.16	48.60	2,000	203.00/M	C1210C335K4PACTU
16	3.9µF	±10%	399-3088-1-ND	8.75	59.40	2,000	248.00/M	C1210C395K4PACTU
16	4.7µF	±10%	399-3090-1-ND	6.70	42.00	2,000	160.00/M	C1210C475K4PACTU
16	5.6µF	±10%	399-3147-1-ND	10.34	75.90	2,500	319.00/M	C1210C565K4PACTU
16	6.8µF	±10%	399-1288-1-ND	10.34	75.90	2,000	319.00/M	C1210C685K4PACTU
16	8.2µF	±10%	399-3149-1-ND	10.34	75.90	2,000	319.00/M	C1210C825K4PACTU
16	10µF	±10%	399-3150-1-ND	7.04	44.10	2,000	168.00/M	C1210C106K4PACTU
16	22µF	±10%	399-5092-1-ND	7.95	54.00	2,000	225.00/M	C1210C226K4PACTU
16	47µF	±20%	399-5514-1-ND	12.30	99.00	1,500	450.00/M	C1210C476M4PACTU
10	4.7µF	±10%	399-1273-1-ND	8.75	59.40	2,000	248.00/M	C1210C475K8PACTU
10	6.8µF	±10%	399-1274-1-ND	10.34	75.90	2,000	319.00/M	C1210C685K8PACTU
10	10µF	±10%	399-1275-1-ND	7.04	44.10	2,000	168.00/M	C1210C106K8PACTU
10	12µF	±10%	399-3296-1-ND	9.87	72.45	4,000	289.00/M	C1210C126K8PACTU
10	15µF	±10%	399-3298-1-ND	7.82	53.10	2,500	221.00/M	C1210C156K8PACTU
10	18µF	±10%	399-3300-1-ND	10.81	79.35	2,500	334.00/M	C1210C186K8PACTU
10	22µF	±10%	399-3302-1-ND	6.89	46.80	2,000	195.00/M	C1210C226K8PACTU
10	47µF	±20%	399-5515-1-ND	12.30	99.00	1,500	450.00/M	C1210C476M8PACTU
6.3	10µF	±10%	399-5510-1-ND	7.04	44.10	2,000	168.00/M	C1210C106K9PACTU
6.3	12µF	±10%	399-3297-1-ND	9.87	72.45	4,000	289.00/M	C1210C126K9PACTU
6.3	15µF	±10%	399-3299-1-ND	10.34	75.90	2,500	319.00/M	C1210C156K9PACTU
6.3	18µF	±10%	399-3301-1-ND	10.81	79.35	2,500	334.00/M	C1210C186K9PACTU
6.3	22µF	±10%	399-3303-1-ND	8.93	65.55	2,000	276.00/M	C1210C226K9PACTU
6.3	47µF	±20%	399-4961-1-ND	11.52	84.53	1,500	380.00/M	C1210C476M9PACTU
6.3	100µF	±20%	399-4697-1-ND	12.30	99.00	1,500	450.00/M	C1210C107M9PACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND ✔ ***NEW!***

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Y5V Type								
16	4.7µF	+80%, -20%	399-1270-1-ND	7.42	50.40	2,500	210.00/M	C1210C475Z4VACTU
16	6.8µF	+80%, -20%	399-1271-1-ND	9.01	61.20	4,000	238.00/M	C1210C685Z4VACTU
16	10µF	+80%, -20%	399-1272-1-ND	4.57	27.50	2,000	99.00/M	C1210C106Z4VACTU
10	15µF	+80%, -20%	399-1300-1-ND	11.16	81.94	2,000	344.00/M	C1210C156Z8VACTU
10	22µF	+80%, -20%	399-1301-1-ND	5.23	32.76	1,500	133.00/M	C1210C226Z8VACTU
Case Size 1808								
COG (NPO) Type								
2500	160pF	±5%	399-4824-1-ND	15.58	125.40	1,000	570.00	C1808C161JZGACTU
2500	180pF	±5%	399-4825-1-ND	15.58	125.40	1,000	570.00	C1808C181JZGACTU
2500	200pF	±5%	399-4826-1-ND	14.15	113.86	—	—	C1808C201JZGACTU
2500	220pF	±5%	399-4827-1-ND	15.99	128.70	1,000	585.00	C1808C221JZGACTU
2500	240pF	±5%	399-4828-1-ND	15.99	128.70	1,000	585.00	C1808C241JZGACTU
2500	270pF	±5%	399-4829-1-ND	14.52	116.86	—	—	C1808C271JZGACTU
2500	300pF	±5%	399-4831-1-ND	15.99	128.70	1,000	585.00	C1808C301JZGACTU
2500	330pF	±5%	399-4832-1-ND	14.52	116.86	—	—	C1808C331JZGACTU
630	680pF	±5%	399-5550-1-ND	13.19	106.19	1,000	482.70	C1808C681JBGACTU
630	1000pF	±5%	399-5551-1-ND	13.26	106.72	1,000	485.10	C1808C102JBGACTU
630	1800pF	±5%	399-5552-1-ND	13.37	107.58	1,000	489.00	C1808C182JBGACTU
X7R Type								
3000	100pF	±10%	399-3442-1-ND	9.01	61.20	1,000	272.00	C1808C101KHRACTU
2000	1000pF	±10%	399-3443-1-ND	8.70	63.83	1,000	287.00	C1808C102KGRACTU
2000	2700pF	±10%	399-4830-1-ND	12.21	98.28	—	—	C1808C272KGRACTU
1000	10000pF	±10%	399-3444-1-ND	9.01	61.20	1,000	272.00	C1808C103KDRACTU
1000	15000pF	±10%	399-4823-1-ND	12.13	97.65	1,000	444.00	C1808C153KDRACTU
Case Size 1812								
COG (NPO) Type								
2500	240pF	±5%	399-4835-1-ND	18.86	151.80	1,000	690.00	C1812C241JZGACTU
2500	270pF	±5%	399-4836-1-ND	18.86	151.80	1,000	690.00	C1812C271JZGACTU
2500	300pF	±5%	399-4837-1-ND	18.86	151.80	1,000	690.00	C1812C301JZGACTU
2500	330pF	±5%	399-4838-1-ND	17.50	140.83	—	—	C1812C331JZGACTU
2500	360pF	±5%	399-4840-1-ND	19.27	155.10	1,000	705.00	C1812C361JZGACTU
2500	390pF	±5%	399-4841-1-ND	19.27	155.10	1,000	705.00	C1812C391JZGACTU
2500	430pF	±5%	399-4843-1-ND	19.68	158.40	1,000	720.00	C1812C431JZGACTU
2500	470pF	±5%	399-4844-1-ND	17.87	143.83	—	—	C1812C471JZGACTU
1000	1000pF	±10%	399-3445-1-ND	8.75	59.40	1,000	264.00	C1812C102KDGACTU
630	1000pF	±1%	399-5554-1-ND	17.29	152.52	1,000	711.76	C1812C102FBGACTU
630	1000pF	±5%	399-5555-1-ND	15.94	128.30	1,000	583.20	C1812C102JBGACTU
630	680pF	±5%	399-5553-1-ND	15.86	127.64	1,000	580.20	C1812C681JBGACTU
100	15000pF	±5%	399-5362-1-ND	20.42	164.34	1,000	747.00	C1812C153J1GACTU
100	18000pF	±5%	399-5363-1-ND	20.42	164.34	1,000	747.00	C1812C183J1GACTU
100	22000pF	±5%	399-5364-1-ND	18.49	148.83	1,000	677.00	C1812C223J1GACTU
100	27000pF	±5%	399-5365-1-ND	19.23	154.77	1,000	704.00	C1812C273J1GACTU
100	33000pF	±5%	399-5366-1-ND	19.23	154.77	1,000	704.00	C1812C333J1GACTU
100	47000pF	±5%	399-5367-1-ND	16.31	131.24	—	—	C1812C473J1GACTU
100	56000pF	±5%	399-5368-1-ND	17.78	156.90	1,000	732.00	C1812C563J1GACTU
100	68000pF	±5%	399-5369-1-ND	17.78	156.90	1,000	732.00	C1812C683J1GACTU
100	82000pF	±5%	399-5370-1-ND	17.78	156.90	1,000	732.00	C1812C823J1GACTU
100	.1µF	±5%	399-5371-1-ND	18.61	149.82	1,000	681.00	C1812C104J1GACTU
100	.12µF	±5%	399-5372-1-ND	18.50	163.20	1,000	762.00	C1812C124J1GACTU
100	.15µF	±5%	399-5373-1-ND	18.50	163.20	1,000	762.00	C1812C154J1GACTU
50	15000pF	±5%	399-5349-1-ND	16.56	133.32	1,000	606.00	C1812C153J5GACTU
50	18000pF	±5%	399-5350-1-ND	16.56	133.32	1,000	606.00	C1812C183J5GACTU
50	22000pF	±5%	399-5351-1-ND	14.44	116.26	—	—	C1812C223J5GACTU
50	27000pF	±5%	399-5352-1-ND	16.56	133.32	1,000	606.00	C1812C273J5GACTU
50	33000pF	±5%	399-5353-1-ND	16.56	133.32	1,000	606.00	C1812C333J5GACTU
50	47000pF	±5%	399-5354-1-ND	14.39	115.83	1,000	527.00	C1812C473J5GACTU
50	56000pF	±5%	399-5355-1-ND	18.45	148.50	1,000	675.00	C1812C563J5GACTU
50	68000pF	±5%	399-5356-1-ND	18.45	148.50	1,000	675.00	C1812C683J5GACTU
50	82000pF	±5%	399-5357-1-ND	18.45	148.50	1,000	675.00	C1812C823J5GACTU
50	.1µF	±5%	399-5358-1-ND	16.03	129.03	1,000	587.00	C1812C104J5GACTU
50	.12µF	±5%	399-5359-1-ND	17.61	155.40	1,000	725.00	C1812C124J5GACTU
50	.15µF	±5%	399-5360-1-ND	17.61	155.40	1,000	725.00	C1812C154J5GACTU
50	.22µF	±5%	399-5361-1-ND	19.27	155.10	1,000	705.00	C1812C224J5GACTU
X7R Type								
3000	1000pF	±10%	399-3448-1-ND	9.17	67.28	1,000	302.00	C1812C102KHRACTU
2000	1000pF	±10%	399-3447-1-ND	8.75	59.40	1,000	264.00	C1812C102KGRACTU
2000	3300pF	±10%	399-4839-1-ND	13.08	105.26	1,000	580.00	C1812C332KGRACTU
2000	3900pF	±10%	399-4842-1-ND	14.41	116.00	1,000	527.00	C1812C392KGRACTU
1000	1000pF	±10%	399-3446-1-ND	7.42	50.40	1,000	224.00	C1812C102KDRACTU
1000	4700pF	±10%	399-3452-1-ND	7.69	52.20	1,000	232.00	C1812C472KDRACTU
1000	10000pF	±10%	399-3450-1-ND	7.95	54.00	1,000	240.00	C1812C103KDRACTU
1000	18000pF	±10%	399-4833-1-ND	12.99	104.58	1,000	475.00	C1812C183KDRACTU
1000	22000pF	±10%	399-4834-1-ND	11.81	95.02	—	—	C1812C223KDRACTU
500	10000pF	±10%	399-3449-1-ND	7.16	48.60	1,000	216.00	C1812C103KCRACTU
500	47000pF	±10%	399-3453-1-ND	7.95	54.00	1,000	240.00	C1812C473KCRACTU
50	.47µF	±10%	399-3454-1-ND	8.84	64.86	1,000	291.00	C1812C474K5RACTU
50	.68µF	±10%	399-3455-1-ND	11.37	83.49	1,000	375.00	C1812C684K5RACTU
50	1µF	±10%	399-3451-1-ND	9.40	69.00	1,000	310.00	C1812C105K5RACTU

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				10	100	Qty.	Pricing	
Case Size 1825								
COG (NPO) Type								
2500	510pF	±5%	399-4847-1-ND	31.28	276.00	1,000	1288.00	C1825C511JZGACTU
2500	560pF	±5%	399-4848-1-ND	31.28	276.00	1,000	1288.00	C1825C561JZGACTU
2500	620pF	±5%	399-4849-1-ND	31.28	276.00	1,000	1288.00	C1825C621JZGACTU
2500	680pF	±5%	399-4850-1-ND	28.43	250.88	—	—	C1825C681JZGACTU
2500	750pF	±5%	399-4851-1-ND	31.96	282.00	1,000	1316.00	C1825C751JZGACTU
2500	820pF	±5%	399-4852-1-ND	31.96	282.00	1,000	1316.00	C1825C821JZGACTU
2500	910pF	±5%	399-4854-1-ND	31.96	282.00	1,000	1316.00	C1825C911JZGACTU
2500	1000pF	±5%	399-4845-1-ND	29.05	256.34	—	—	C1825C102JZGACTU
630	1000pF	±1%	399-5556-1-ND	32.28	292.52	1,000	1361.75	C1825C102FBGACTU
630	1000pF	±5%	399-5557-1-ND	26.22	231.39	1,000	1079.82	C1825C102JBGACTU
630	2700pF	±5%	399-5558-1-ND	26.56	234.33	1,000	1093.54	C1825C272JBGACTU
630	4700pF	±5%	399-5559-1-ND	26.76	236.10	1,000	1101.80	C1825C472JBGACTU
X7R Type								
2000	8200pF	±10%	399-4853-1-ND	22.79	201.12	—	—	C1825C822KGRACTU
1000	47000pF	±10%	399-4846-1-ND	20.55	181.35	—	—	C1825C473KDRACTU
50	.47µF	±10%	399-3457-1-ND	18.43	148.32	1,000	891.00	C1825C474K5RACTU
50	1µF	±10%	399-3456-1-ND	15.45	136.35	—	—	C1825C105K5RACTU
Case Size 2220								
COG (NPO) Type								
2500	620pF	±5%	399-4857-1-ND	47.12	418.00	1,000	1976.00	C2220C621JZGACTU
2500	680pF	±5%	399-4858-1-ND	47.12	418.00	1,000	1976.00	C2220C681JZGACTU
2500	750pF	±5%	399-4859-1-ND	47.43	420.75	1,000	1989.00	C2220C751JZGACTU
2500	820pF	±5%	399-4860-1-ND	47.43	420.75	1,000	1989.00	C2220C821JZGACTU
2500	910pF	±5%	399-4862-1-ND	47.43	420.75	1,000	1989.00	C2220C911JZGACTU
2500	1000pF	±5%	399-4855-1-ND	47.43	420.75	1,000	1989.00	C2220C102JZGACTU
630	1000pF	±5%	399-5560-1-ND	41.02	371.78	1,000	1730.70	C2220C102JBGACTU
630	2700pF	±10%	399-5561-1-ND	38.35	347.54	1,000	1617.84	C2220C272KBGACTU
630	4700pF	±5%	399-5562-1-ND	41.86	379.35	1,000	1765.94	C2220C472JBGACTU
100	22000pF	±5%	399-5386-1-ND	33.86	306.82	1,000	1428.00	C2220C223J1GACTU
100	27000pF	±5%	399-5387-1-ND	33.86	306.82	1,000	1428.00	C2220C273J1GACTU
100	33000pF	±5%	399-5388-1-ND	33.86	306.82	1,000	1428.00	C2220C333J1GACTU
100	47000pF	±5%	399-5389-1-ND	31.28	276.00	1,000	1288.00	C2220C473J1GACTU
100	56000pF	±5%	399-5390-1-ND	37.57	340.46	1,000	1585.00	C2220C563J1GACTU
100	68000pF	±5%	399-5391-1-ND	37.57	340.46	1,000	1585.00	C2220C683J1GACTU
100	82000pF	±5%	399-5392-1-ND	37.57	340.46	1,000	1585.00	C2220C823J1GACTU
100	.1µF	±5%	399-5393-1-ND	32.61	295.51	1,000	1376.00	C2220C104J1GACTU
100	.12µF	±5%	399-5394-1-ND	39.17	354.96	1,000	1652.00	C2220C124J1GACTU
100	.15µF	±5%	399-5395-1-ND	39.17	354.96	1,000	1652.00	C2220C154J1GACTU
100	.22µF	±5%	399-5396-1-ND	36.80	333.50	1,000	1553.00	C2220C224J1GACTU
100	.27µF	±5%	399-5397-1-ND	45.06	408.32	1,000	1901.00	C2220C274J1GACTU
100	.33µF	±5%	399-5398-1-ND	45.06	408.32	1,000	1901.00	C2220C334J1GACTU
50	33000pF	±5%	399-5374-1-ND	27.54	242.98	—	—	C2220C333J5GACTU
50	47000pF	±5%	399-5375-1-ND	27.64	243.90	1,000	1138.00	C2220C473J5GACTU
50	56000pF	±5%	399-5376-1-ND	33.18	300.73	1,000	1400.00	C2220C563J5GACTU
50	68000pF	±5%	399-5377-1-ND	33.18	300.73	1,000	1400.00	C2220C683J5GACTU
50	82000pF	±5%	399-5378-1-ND	33.18	300.73	1,000	1400.00	C2220C823J5GACTU
50	.1µF	±5%	399-5379-1-ND	30.70	270.90	1,000	1264.00	C2220C104J5GACTU
50	.12µF	±5%	399-5380-1-ND	33.28	301.60	1,000	1404.00	C2220C124J5GACTU
50	.15µF	±5%	399-5381-1-ND	33.28	301.60	1,000	1404.00	C2220C154J5GACTU
50	.22µF	±5%	399-5382-1-ND	33.25	293.40	1,000	1369.00	C2220C224J5GACTU
50	.27µF	±5%	399-5383-1-ND	39.94	361.92	1,000	1685.00	C2220C274J5GACTU
50	.33µF	±5%	399-5384-1-ND	39.94	361.92	1,000	1685.00	C2220C334J5GACTU
50	.47µF	±5%	399-5385-1-ND	34.72	314.65	1,000	1465.00	C2220C474J5GACTU
X7R Type								
2000	8200pF	±10%	399-4861-1-ND	37.12	336.40	1,000	1566.00	C2220C822KGRACTU
1000	47000pF	±10%	399-4856-1-ND	33.60	304.50	1,000	1418.00	C2220C473KDRACTU
Case Size 2225								
COG (NPO) Type								
2500	750pF	±5%	399-4869-1-ND	62.00	550.00	1,000	2600.00	C2225C751JZGACTU
2500	820pF	±5%	399-4870-1-ND	62.00	550.00	1,000	2600.00	C2225C821JZGACTU
2500	910pF	±5%	399-4871-1-ND	62.00	550.00	1,000	2600.00	C2225C911JZGACTU
2500	1000pF	±5%	399-4863-1-ND	62.31	552.75	1,000	2613.00	C2225C102JZGACTU
2500	1100pF	±5%	399-4864-1-ND	62.31	552.75	1,000	2613.00	C2225C112JZGACTU
2500	1200pF	±5%	399-4865-1-ND	56.76	503.56	—	—	C2225C122JZGACTU
630	1000pF	±5%	399-5563-1-ND	52.12	462.33	1,000	2185.56	C2225C102JBGACTU
630	4700pF	±5%	399-5564-1-ND	53.18	471.74	1,000	2230.02	C2225C472JBGACTU
630	5600pF	±10%	399-5565-1-ND	49.21	436.54	1,000	2063.62	C2225C562KBGACTU
630	6800pF	±5%	399-5566-1-ND	53.44	474.10	1,000	2241.20	C2225C682JBGACTU
X7R Type								
2000	12000pF	±10%	399-4866-1-ND	39.02	353.63	—	—	C2225C123KGRACTU
1000	56000pF	±10%	399-4867-1-ND	35.24	319.32	—	—	C2225C563KDRACTU
1000	62000pF	±10%	399-4868-1-ND	39.04	353.80	1,000	1647.00	C2225C623KDRACTU
500	.1µF	±10%	399-3458-1-ND	25.50	225.00	1,000	1050.00	C2225C104KCRACTU
500	.22µF	±10%	399-3460-1-ND	25.50	225.00	1,000	1050.00	C2225C224KCRACTU
50	1µF	±10%	399-3459-1-ND	18.02	159.00	1,000	742.00	C2225C105K5RACTU
50	2.2µF	±10%	399-3461-1-ND	32.47	286.50	1,000	1337.00	C2225C225K5RACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND ✔ ***NEW!***

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

Capacitor Kits — *RoHS Compliant*

399-5085-ND (Kemet Part No. CER ENG KIT 07) High Capacitance Value Capacitor Kit, 400 total pieces (See Digi-Key website for values included) **$54.00**

399-5086-ND (Kemet Part No. CER ENG KIT 08) High Voltage Capacitor Kit, 400 total pieces (See Digi-Key website for values included) **$54.00**

399-5087-ND (Kemet Part No. CER ENG KIT 09) Open Mode/Fail Safe Capacitor Kit, 200 total pieces (See Digi-Key website for values included) **$54.00**

KEMET CHARGED. NEW! X8L and X8R Dielectric Multilayer Ceramic Chip Capacitors

RoHS COMPLIANT

Digi-Reel®

X8R Series: Ultra Stable X8R Dielectric features a 150°C maximum operating temperature, offering the latest in high temperature dielectric technology and therefore a reliable choice for extreme temperature applications. It offers the same temperature capability as conventional X8R, but without the capacitance loss due to applied DC Voltage. Ultra Stable X8R exhibits no capacitance loss. Product applications include harsh environments such as Down Hole (Oil Exploration), Automotive (Under Hood), Military and Aerospace.

X8L Series: X8L Dielectric offers an operating temperature range from -55°C ~ 150°C with capacitance shift limited to ±15% from -55°C ~ 125°C and +15, -40% from 125°C ~ 150°C. Product applications include harsh environments such as Down Hole (Oil Exploration), Automotive (Under Hood), Military and Aerospace.

Please Note: For additional dimensions see data sheet.

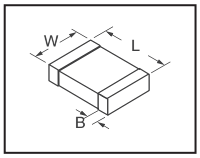

Size Code (EIA)	Dimensions - mm		
	L	W	B
0402	1.0 ±0.05	0.5 ±0.05	0.30 ±0.10
0603	1.6 ±0.15	0.8 ±0.15	0.35 ±0.15
0805	2.0 ±0.2	1.25 ±0.2	0.5 ±0.25
1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25

WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				1	10	Qty.	Pricing	
X8R Type								
Case Size 0402								
100	100pF	±5%	399-5690-1-ND	.56	4.40	10,000	84.80/M	C0402C101J1HACTU
100	220pF	±5%	399-5692-1-ND	.56	4.40	10,000	84.80/M	C0402C221J1HACTU
50	100pF	±10%	399-5689-1-ND	.45	3.57	10,000	68.80/M	C0402C101K5HACTU
50	220pF	±10%	399-5691-1-ND	.33	2.20	10,000	22.00/M	C0402C221K5HACTU
50	330pF	±10%	399-5693-1-ND	.33	2.20	10,000	22.00/M	C0402C331K5HACTU
50	470pF	±10%	399-5694-1-ND	.55	4.32	10,000	83.20/M	C0402C471K5HACTU
50	1000pF	±10%	399-5695-1-ND	.47	3.74	10,000	72.00/M	C0402C102K5HACTU
Case Size 0603								
100	1000pF	±5%	399-5698-1-ND	.27	1.80	4,000	19.35/M	C0603C102J1HACTU
100	4700pF	±5%	399-5701-1-ND	.27	1.80	4,000	19.35/M	C0603C472J1HACTU
50	470pF	±10%	399-5696-1-ND	.33	2.20	4,000	23.65/M	C0603C471K5HACTU
50	1000pF	±10%	399-5697-1-ND	.24	1.60	4,000	17.20/M	C0603C102K5HACTU
50	2200pF	±10%	399-5699-1-ND	.27	1.80	4,000	19.35/M	C0603C222K5HACTU
50	4700pF	±10%	399-5700-1-ND	.24	1.60	4,000	17.20/M	C0603C472K5HACTU
25	10000pF	±10%	399-5702-1-ND	.24	1.60	4,000	17.20/M	C0603C103K3HACTU
25	10000pF	±5%	399-5703-1-ND	.27	1.80	4,000	19.35/M	C0603C103J3HACTU
Case Size 0805								
100	.015μF	±5%	399-5764-1-ND	.46	3.63	2,500	66.00/M	C0805C153J1HACTU
50	2700pF	±10%	399-5704-1-ND	.24	1.60	4,000	17.20/M	C0805C272K5HACTU
50	4700pF	±10%	399-5705-1-ND	.73	6.10	4,000	136.50/M	C0805C472K5HACTU
50	6800pF	±10%	399-5709-1-ND	.98	8.17	4,000	183.00/M	C0805C682K5HACTU
50	10000pF	±10%	399-5762-1-ND	.45	3.52	4,000	59.20/M	C0805C103K5HACTU
50	.022μF	±5%	399-5765-1-ND	.48	3.74	2,500	68.00/M	C0805C223J5HACTU
25	10000pF	±10%	399-5706-1-ND	.32	2.40	4,000	32.00/M	C0805C103K3HACTU
25	10000pF	±5%	399-5707-1-ND	.73	6.10	4,000	136.50/M	C0805C103J3HACTU
25	.027μF	±10%	399-5708-1-ND	.32	2.40	2,500	35.20/M	C0805C273K3HACTU
25	.033μF	±5%	399-5767-1-ND	.50	3.96	2,500	72.00/M	C0805C333J3HACTU
Case Size 1206								
100	10000pF	±5%	399-5711-1-ND	1.32	10.78	4,000	355.05/M	C1206C103J1HACTU
100	.047μF	±5%	399-5770-1-ND	.45	3.57	2,000	77.40/M	C1206C473J1HACTU
50	10000pF	±10%	399-5710-1-ND	.35	2.75	4,000	46.25/M	C1206C103K5HACTU
50	.027μF	±10%	399-5712-1-ND	.61	4.86	4,000	99.45/M	C1206C273K5HACTU
50	.047μF	±10%	399-5713-1-ND	.35	2.75	2,500	50.00/M	C1206C473K5HACTU
25	.1μF	±10%	399-5714-1-ND	.45	3.57	2,000	77.40/M	C1206C104K3HACTU
25	.1μF	±5%	399-5715-1-ND	2.01	16.44	2,000	561.40/M	C1206C104J3HACTU
Case Size 1210								
100	.027μF	±10%	399-5716-1-ND	3.67	30.46	4,000	1164.80/M	C1210C273K1HACTU
100	.047μF	±10%	399-5717-1-ND	3.31	27.47	2,500	1090.80/M	C1210C473K1HACTU
100	.1μF	±10%	399-5718-1-ND	4.73	42.02	2,000	1706.90/M	C1210C104K1HACTU
100	.1μF	±5%	399-5774-1-ND	4.50	40.00	2,000	1625.00/M	C1210C104J1HACTU
50	.1μF	±10%	399-5719-1-ND	4.50	40.00	2,500	1625.00/M	C1210C104K5HACTU
Case Size 1812								
50	.22μF	±5%	399-5778-1-ND	2.67	22.10	1,000	910.00	C1812C224J5HACTU

WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
				1	10	Qty.	Pricing	
X8L Type								
Case Size 0402								
25	.018μF	±10%	399-5720-1-ND	.57	4.48	10,000	86.40/M	C0402C183K3NACTU
10	.022μF	±10%	399-5721-1-ND	.49	3.90	10,000	75.20/M	C0402C223K8NACTU
10	.047μF	±10%	399-5722-1-ND	.49	3.90	10,000	75.20/M	C0402C473K8NACTU
10	.047μF	±5%	399-5760-1-ND	.27	1.80	10,000	18.00/M	C0402C473J8NACTU
Case Size 0603								
50	.047μF	±10%	399-5724-1-ND	.48	3.74	4,000	62.90/M	C0603C473K5NACTU
25	.047μF	±10%	399-5723-1-ND	.48	3.74	4,000	62.90/M	C0603C473K3NACTU
10	.22μF	±10%	399-5725-1-ND	.56	4.40	4,000	90.10/M	C0603C224K8NACTU
10	.22μF	±5%	399-5761-1-ND	.56	4.69	4,000	105.00/M	C0603C224J8NACTU
Case Size 0805								
50	.15μF	±10%	399-5726-1-ND	.63	5.29	2,500	126.40/M	C0805C154K5NACTU
50	.22μF	±10%	399-5727-1-ND	.44	3.30	2,500	48.40/M	C0805C224K5NACTU
50	.22μF	±5%	399-5766-1-ND	.42	3.32	4,000	68.00/M	C0805C224J5NACTU
25	.27μF	±10%	399-5728-1-ND	.87	7.30	4,000	163.50/M	C0805C274K3NACTU
25	.33μF	±10%	399-5768-1-ND	.46	3.65	4,000	74.80/M	C0805C334K3NACTU
25	.47μF	±10%	399-5729-1-ND	.83	7.00	2,500	198.00/M	C0805C474K3NACTU
25	.68μF	±10%	399-5730-1-ND	.84	7.04	2,500	168.00/M	C0805C684K3NACTU
25	.68μF	±5%	399-5769-1-ND	.48	3.82	2,500	82.80/M	C0805C684J3NACTU
10	1.0μF	±10%	399-5731-1-ND	1.01	8.44	2,500	201.60/M	C0805C105K8NACTU
10	1.0μF	±5%	399-5763-1-ND	.44	3.49	2,500	75.60/M	C0805C105J8NACTU
Case Size 1206								
50	.47μF	±10%	399-5732-1-ND	.45	3.57	2,000	77.40/M	C1206C474K5NACTU
50	.47μF	±5%	399-5771-1-ND	.96	8.04	2,000	192.00/M	C1206C474J5NACTU
50	1.0μF	±5%	399-5775-1-ND	1.75	14.35	2,000	490.00/M	C1210C105J5NACTU
25	.47μF	±10%	399-5772-1-ND	.88	7.37	2,000	176.00/M	C1206C474K3NACTU
25	1.0μF	±10%	399-5733-1-ND	.45	3.57	2,500	77.40/M	C1206C105K3NACTU
25	2.2μF	±10%	399-5734-1-ND	1.10	9.33	2,000	264.00/M	C1206C225K3NACTU
25	4.7μF	±5%	399-5777-1-ND	1.02	8.52	1,000	281.02	C1210C475J3NACTU
10	4.7μF	±10%	399-5735-1-ND	1.20	10.06	2,000	310.30/M	C1206C475K8NACTU
10	4.7μF	±5%	399-5773-1-ND	1.24	10.34	2,000	319.00/M	C1206C475J8NACTU
10	10μF	±5%	399-5776-1-ND	1.31	10.93	1,000	360.38	C1210C106J8NACTU
Case Size 1210								
50	.68μF	±10%	399-5736-1-ND	1.17	9.78	2,500	301.60/M	C1210C684K5NACTU
50	1.0μF	±10%	399-5738-1-ND	1.28	10.67	2,000	329.15/M	C1210C105K5NACTU
25	1.0μF	±10%	399-5737-1-ND	1.28	10.67	2,000	329.15/M	C1210C105K3NACTU
25	3.3μF	±10%	399-5739-1-ND	.94	7.84	2,000	187.20/M	C1210C335K3NACTU
25	4.7μF	±10%	399-5740-1-ND	1.14	9.49	1,000	313.10	C1210C475K3NACTU
10	10μF	±10%	399-5741-1-ND	1.37	11.23	1,000	411.00	C1210C106K8NACTU

‡ For Tape and Reel part number, change 1-ND to 2-ND

NEW! KPS Series Stacked MLCCs

Digi-Reel®

RoHS COMPLIANT

KPS Series (KEMET Power Solutions) utilizes proprietary lead-frame technology to vertically stack one or two multilayer ceramic chip capacitors (MLCCs) into a single compact surface mount package.

Benefits: • Higher capacitance in the same footprint • Potential board space savings • Advanced protection against thermal and mechanical stress • Provides up to 10mm of board flex capability • Reduces audible, microphonic noise • Extremely low ESR and ESL • Automotive grade (AEC-Q200) under development.

Applications: • Industrial, Automotive, Military, Telecom • Smoothing circuits • DC to DC converters • Power Supplies (input/output filters) • Any application that is subject to high levels of board flexure or temperature cycling

Fig. 1 — Single

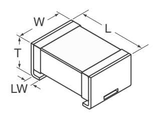

Fig. 2 — Double

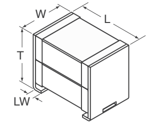

Chip Stack	Size Code (EIA)	Dimensions - mm			
		L	W	T	LW
Single	1210	3.50 ± 0.30	2.60 ± 0.30	3.35 ± 0.10	0.80 ± 0.15
	2220	6.00 ± 0.50	5.00 ± 0.50	3.50 ± 0.30	1.60 ± 0.30
Double	1210	3.50 ± 0.30	2.60 ± 0.30	6.15 ± 0.15	0.80 ± 0.15
	1812	5.00 ± 0.50	3.50 ± 0.50	5.00 ± 0.50	1.10 ± 0.30
	2220	6.00 ± 0.50	5.00 ± 0.50	5.00 ± 0.50	1.60 ± 0.30

Fig.	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
					1	10	Qty.	Pricing	
Case Size 1210									
1	100	1.0μF	±10%	399-5807-1-ND	3.38	28.02	500	659.00	C1210C105K1R1C
	100	1.0μF	±10%	399-5785-1-ND	3.38	28.02	3,000	1112.40/M	C1210C105K1R1CAUTO
	100	2.2μF	±10%	399-5786-1-ND	3.41	28.30	3,000	1123.61/M	C1210C225K1R1C
	50	4.7μF	±10%	399-5808-1-ND	3.41	28.31	500	666.00	C1210C475K5R1C
	50	4.7μF	±10%	399-5788-1-ND	3.41	28.31	3,000	1124.01/M	C1210C475K5R1CAUTO
2	100	4.7μF	±20%	399-5787-1-ND	4.08	36.23	1,000	1528.61	C1210C475M1R2C
	10	47μF	±20%	399-5809-1-ND	4.31	38.33	500	868.50	C1210C476M8R2C
	10	47μF	±20%	399-5789-1-ND	4.31	38.33	1,500	1617.17/M	C1210C476M8R2CAUTO
Case Size 1812									
2	250	0.47μF	±20%	399-5810-1-ND	4.19	37.28	500	844.50	C1812C474MAR2C
	250	0.47μF	±20%	399-5790-1-ND	4.19	37.28	1,500	1572.62/M	C1812C474MAR2CAUTO
	50	3.3μF	±20%	399-5811-1-ND	4.15	36.93	500	836.50	C1812C335M5R2C
	50	3.3μF	±20%	399-5791-1-ND	4.15	36.93	1,500	1557.90/M	C1812C335M5R2CAUTO
	25	10μF	±20%	399-5812-1-ND	4.16	36.94	500	837.00	C1812C106M3R2C
	25	10μF	±20%	399-5792-1-ND	4.16	36.94	1,500	1558.31/M	C1812C106M3R2CAUTO
	16	22μF	±20%	399-5813-1-ND	4.12	36.58	500	828.50	C1812C226M4R2C
	16	22μF	±20%	399-5793-1-ND	4.12	36.58	1,500	1543.19/M	C1812C226M4R2CAUTO
Case Size 2220									
1	100	3.3μF	±10%	399-5822-1-ND	5.03	44.73	500	1013.50	C2220C335K1R1C
	100	3.3μF	±10%	399-5802-1-ND	5.03	44.73	1,000	1886.95	C2220C335K1R1CAUTO

Fig.	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Kemet Part No.
					1	10	Qty.	Pricing	
1	50	3.3μF	±10%	399-5823-1-ND	4.93	43.85	500	993.50	C2220C335K5R1C
	50	3.3μF	±10%	399-5803-1-ND	4.93	43.85	1,000	1849.91	C2220C335K5R1CAUTO
	50	10μF	±10%	399-5818-1-ND	5.03	44.74	500	1013.50	C2220C106K5R1C
	50	10μF	±10%	399-5798-1-ND	5.03	44.74	1,000	1887.57	C2220C106K5R1CAUTO
	25	10μF	±10%	399-5819-1-ND	4.93	43.86	500	994.00	C2220C106K3R1C
	25	10μF	±10%	399-5799-1-ND	4.93	43.86	1,000	1850.45	C2220C106K3R1CAUTO
2	250	1.0μF	±20%	399-5816-1-ND	5.30	47.07	500	1066.50	C2220C105MAR2C
	250	1.0μF	±20%	399-5796-1-ND	5.30	47.07	1,000	1985.72	C2220C105MAR2CAUTO
	250	2.2μF	±20%	399-5814-1-ND	5.35	47.54	500	1077.00	C2220C225MAR2C
	250	2.2μF	±20%	399-5794-1-ND	5.35	47.54	1,000	2005.70	C2220C225MAR2CAUTO
	100	2.2μF	±20%	399-5815-1-ND	5.24	46.61	500	1056.00	C2220C225M1R2C
	100	2.2μF	±20%	399-5795-1-ND	5.24	46.61	1,000	1966.41	C2220C225M1R2CAUTO
	50	10μF	±20%	399-5824-1-ND	5.30	47.10	500	1067.00	C2220C106M5R2C
	50	10μF	±20%	399-5804-1-ND	5.30	47.10	1,000	2796.00	C2220C106M5R2CAUTO
	50	22μF	±20%	399-5817-1-ND	5.37	47.73	500	1081.50	C2220C226M5R2C
	50	22μF	±20%	399-5797-1-ND	5.35	47.57	1,000	2006.91	C2220C226M5R2CAUTO
	25	47μF	±20%	399-5821-1-ND	5.39	47.87	500	1084.50	C2220C476M3R2C
	25	47μF	±20%	399-5801-1-ND	5.39	47.87	1,000	2019.47	C2220C476M3R2CAUTO
	16	33μF	±20%	399-5820-1-ND	5.23	46.46	500	1052.50	C2220C336M4R2C
	16	33μF	±20%	399-5800-1-ND	5.23	46.46	1,000	1960.20	C2220C336M4R2CAUTO

‡ For Tape and Reel part number, change 1-ND to 2-ND

KEMET CHARGED. NEW! High Temperature 200°C Multilayer Ceramic Chip Capacitors

RoHS COMPLIANT

Digi-Reel®

High temperature surface mount C0G MLCCs feature a robust and proprietary base metal dielectric system that offers industry-leading performance relative to capacitance and case size combined with capacitance stability at extreme temperatures up to +200°C. **Features:** • No Piezoelectric Noise • Extremely low ESR and ESL • High Thermal Stability • High Ripple Current Capability • Preferred capacitance solution at line frequencies and into the MHz range • No capacitance change with respect to temperature from -55°C ~ +200°C • No capacitance decay with time. • Non-polar device **Applications:** Typical applications include critical timing, tuning, circuits requiring low loss, circuits with pulse, high current, decoupling, by-pass, filtering, transient voltage suppression, blocking and energy storage for use in extreme environments commonly present in applications such as down-hole exploration, aerospace engine compartments and geophysical probes.
Please Note: For additional dimensions see data sheet.

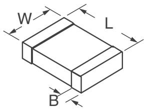

Size Code (EIA)	Dimensions - mm		
	L	W	B
0603	1.60 ±0.15	0.80 ±0.15	0.35 ±0.15
0805	2.0 ±0.2	1.25 ±0.2	0.5 ±0.25
1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25
1812	4.5 ±0.3	3.2 ±0.3	0.6 ±0.35

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
					1	10	25		Qty.	Pricing	
0603	25	10000pF	±5%	399-5779-1-ND	5.67	53.23	124.48	399-5779-2-ND	4,000	2146.25/M	C0603H103J3GACTU
0805	100	10,000pF	±5%	399-5742-1-ND	18.26	169.04	405.68	399-5742-2-ND	4,000	8113.68/M	C0805H103J1GACTU
	50	10,000pF	±10%	399-5743-1-ND	15.14	140.23	336.54	399-5743-2-ND	4,000	6730.80/M	C0805H103K5GACTU
	25	.033µF	±5%	399-5744-1-ND	2.17	17.98	42.97	399-5744-2-ND	2,500	714.02/M	C0805H333J3GACTU
1206	100	10,000pF	±5%	399-5745-1-ND	9.63	90.07	221.29	399-5745-2-ND	4,000	3851.20/M	C1206H103J1GACTU
	100	.047µF	±5%	399-5780-1-ND	12.82	119.89	294.55	399-5780-2-ND	4,000	5126.16/M	C1206H473J1GACTU
	50	10,000pF	±5%	399-5746-1-ND	8.34	77.98	191.59	399-5746-2-ND	2,500	3361.26/M	C1206H103J5GACTU
	50	.047µF	±5%	399-5747-1-ND	11.14	104.25	256.12	399-5747-2-ND	2,500	4493.38/M	C1206H473J5GACTU
	25	.1µF	±5%	399-5750-1-ND	14.55	134.71	323.30	399-5750-2-ND	250	1885.94	C1206H104J3GACTU
1210	100	.1µF	±5%	399-5748-1-ND	25.00	231.44	555.46	399-5748-2-ND	4,000	11109.24/M	C1210H104J1GACTU
	50	.1µF	±5%	399-5749-1-ND	21.63	200.31	480.74	399-5749-2-ND	4,000	9614.76/M	C1210H104J5GACTU
1812	100	.1µF	±5%	399-5782-1-ND	12.47	116.64	286.57	399-5782-2-ND	4,000	4987.28/M	C1812H104J1GACTU
	50	.1µF	±5%	399-5781-1-ND	9.76	91.32	224.37	399-5781-2-ND	4,000	3904.76/M	C1812H104J5GACTU
	50	.22µF	±5%	399-5783-1-ND	11.73	109.77	269.68	399-5783-2-ND	4,000	4693.40/M	C1812H224J5GACTU

Tip and Ring Ceramic Chip Capacitors

RoHS COMPLIANT

Digi-Reel®

Kemet's Tip and Ring MLCC capacitors are excellent replacements for high voltage leaded film devices. The smaller footprints save valuable board space which is critical when creating new designs, and the capacitors are able to withstand today's higher lead-free reflow processing temperatures. The ceramic MLCC have excellent high frequency filtering characteristics, low ESR and high temperature reflow capabilities. The 0805 and 1206 sizes are suitable for either reflow or wave soldering. Sizes 1210 and larger should be limited to reflow soldering only.

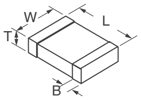

Size Code (EIA)	Dimensions - mm		
	L	W	B
0805	2.0 ±0.2	1.25 (≥250V: 1.2) ±0.2	0.5 ±0.25
1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25
1812	4.5 ±0.3	3.2 ±0.3	0.6 ±0.35
1825	4.5 ±0.3	6.4 ±0.4	0.6 ±0.35
2220	5.6 ±0.4	5.0 ±0.4	0.6 ±0.35
2225	5.6 ±0.4	6.3 (≥250V: 6.4) ±0.4	0.6 ±0.35

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	250		Qty.	Pricing	
0805	X7R	250	1000pF	±10%	0.78	399-4666-1-ND	4.36	26.25	49.22	399-4666-2-ND	4,000	89.00/M	C0805C102KARACTU
	X7R	250	2200pF	±10%	0.78	399-4667-1-ND	4.36	26.25	49.22	399-4667-2-ND	4,000	89.00/M	C0805C222KARACTU
	X7R	250	4700pF	±10%	0.78	399-4668-1-ND	4.36	26.25	49.22	399-4668-2-ND	4,000	89.00/M	C0805C472KARACTU
	X7R	250	10000pF	±10%	0.78	399-4669-1-ND	2.34	9.36	16.82	399-4669-2-ND	4,000	25.00/M	C0805C103KARACTU
	X7R	250	22000pF	±10%	0.78	399-4670-1-ND	4.36	26.25	49.22	399-4670-2-ND	4,000	89.00/M	C0805C223KARACTU
1206	X7R	250	10000pF	±10%	0.78	399-4671-1-ND	4.78	29.99	58.91	399-4671-2-ND	4,000	107.00/M	C1206C103KARACTU
	X7R	250	22000µF	±10%	0.78	399-4672-1-ND	4.78	29.99	58.91	399-4672-2-ND	4,000	107.00/M	C1206C223KARACTU
	X7R	250	47000µF	±10%	1.0	399-4673-1-ND	5.03	31.50	61.88	399-4673-2-ND	2,500	120.00/M	C1206C473KARACTU
	X7R	250	.1µF	±10%	1.25	399-4674-1-ND	3.85	20.13	37.19	399-4674-2-ND	2,500	70.00/M	C1206C104KARACTU
1210	X7R	250	10000pF	±10%	0.78	399-4675-1-ND	8.44	52.92	103.95	399-4675-2-ND	4,000	189.00/M	C1210C103KARACTU
	X7R	250	.1µF	±10%	1.25	399-4676-1-ND	8.12	55.19	118.81	399-4676-2-ND	2,500	230.00/M	C1210C104KARACTU
1812	X7R	250	.1µF	±5%	1.0	399-4677-1-ND	14.15	113.86	250.15	—	—	—	C1812C104JARACTU
	X7R	250	.1µF	±10%	1.0	399-4678-1-ND	10.37	83.46	183.35	399-4678-2-ND	1,000	379.00	C1812C104KARACTU
	X7R	250	.22µF	±5%	1.5	399-4679-1-ND	16.36	131.67	289.28	399-4679-2-ND	1,000	599.00	C1812C224JARACTU
	X7R	250	.22µF	±10%	1.5	399-4680-1-ND	9.88	79.55	174.78	—	—	—	C1812C224KARACTU
	X7R	250	.33µF	±5%	1.5	399-4681-1-ND	16.36	131.67	289.28	399-4681-2-ND	1,000	599.00	C1812C334JARACTU
	X7R	250	.33µF	±10%	1.5	399-4682-1-ND	9.88	79.55	174.78	—	—	—	C1812C334KARACTU
	X7R	250	.47µF	±5%	1.7	399-4683-1-ND	14.85	119.56	262.66	—	—	—	C1812C474JARACTU
	X7R	250	.47µF	±10%	1.7	399-4684-1-ND	10.89	87.62	192.49	399-4684-2-ND	1,000	398.00	C1812C474KARACTU
1825	X7R	250	.47µF	±10%	1.3	399-4685-1-ND	18.70	165.00	385.00	399-4685-2-ND	1,000	770.00	C1825C474KARACTU
	X7R	250	1µF	±10%	1.5	399-4687-1-ND	19.68	158.40	348.00	399-4687-2-ND	1,000	720.00	C1825C105KARACTU
2220	X7R	250	.47µF	±10%	1.1	399-4688-1-ND	18.54	163.62	381.78	—	—	—	C2220C474KARACTU
	X7R	250	.68µF	±10%	1.3	399-4689-1-ND	20.40	180.00	420.00	399-4689-2-ND	1,000	840.00	C2220C684KARACTU
	X7R	250	1µF	±10%	1.5	399-4690-1-ND	20.40	180.00	420.00	399-4690-2-ND	1,000	840.00	C2220C105KARACTU
2225	X7R	250	.47µF	±10%	1.3	399-4691-1-ND	20.40	179.98	419.96	—	—	—	C2225C474KARACTU
	X7R	250	.68µF	±10%	1.3	399-4692-1-ND	22.44	198.00	462.00	—	—	—	C2225C684KARACTU
	X7R	250	1µF	±10%	1.4	399-4693-1-ND	19.04	168.00	392.00	399-4693-2-ND	1,000	784.00	C2225C105KARACTU
	X7R	250	1.2µF	±10%	1.4	399-4694-1-ND	22.44	198.00	462.00	399-4694-2-ND	1,000	924.00	C2225C125KARACTU

Fail-Safe Floating Electrode MLCC with Flexible Termination

RoHS COMPLIANT

Digi-Reel®

The FF-CAP incorporates two existing KEMET technologies; Floating Electrode (cascading electrode design) and Flexible Termination. The floating electrode component of these capacitors yields improved voltage and ESD performance over standard designs, and also mitigates the risk of low IR or short circuit failures associated with mechanical flex cracks. The flexible termination component incorporates a measure of flexibility to the capacitor, shifting flex stress away from the ceramic body and into the termination area.

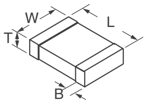

Size Code	Type	WV DC	Capacitance (µF)	Tolerance	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 4,000	Kemet Part No.
					L	W	B	T		10	100	250			
0805	X7R	50	0.01	±10%	2.1 ±0.3	1.25 ±0.2	0.05 ±0.25	0.78	399-5616-1-ND	4.13	21.56	39.84	399-5616-2-ND	69.38/M	C0805Y103K5RACTU
1206	X7R	50	0.1	±10%	3.3 ±0.3	1.6 ±0.2	0.50 ±0.25	0.78	399-5617-1-ND	5.35	32.25	60.47	399-5617-2-ND	109.65/M	C1206Y104K5RACTU
1210	X7R	100	0.1	±10%	3.4 ±0.4	2.5 ±0.2	0.50 ±0.25	0.95	399-5618-1-ND	8.44	52.92	103.95	399-5618-2-ND	189.00/M	C1210Y104K1RACTU

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Open Mode MLCC Capacitors

These Open Mode Ceramic Surface Mount Capacitors are designed to significantly minimize the probability of a low IR or Short Circuit Condition when forced to failure in a board flex situation. This reduces the potential for causing catastrophic failures.

APPLICATIONS: • Input side filtering (power plane/bus) • High current applications (battery line) • Circuits that cannot be fused to open when short circuits occur due to flex cracks

MARKETS: • Automotive: • All applications connected directly to the battery • Conversion to 42V power system Power Conversion: • Raw power input side filtering

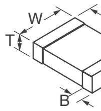

Size Code (EIA)	Dimensions - mm		
	L	W	B
0805	2.0 ±0.2	1.25 (≥250V: 1.2) ±0.2	0.5 ±0.25
1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
0805	X7R	100	22000pF	±10%	0.9	399-5108-1-ND	3.65	19.09	35.28	399-5108-2-ND	2,500	66.00/M	C0805F223K1RACTU
	X7R	50	10000pF	±10%	0.78	399-5107-1-ND	3.07	16.04	29.64	399-5107-2-ND	4,000	52.00/M	C0805F103K5RACTU
	X7R	50	47000pF	±10%	0.78	399-5109-1-ND	3.76	19.67	36.34	399-5109-2-ND	4,000	63.00/M	C0805F473K5RACTU
	X7R	50	.1µF	±10%	0.9	399-5110-1-ND	4.18	25.20	47.25	399-5110-2-ND	2,500	91.00/M	C0805F104K5RACTU
	X7R	50	.22µF	±10%	0.9	399-5111-1-ND	4.57	27.50	51.56	399-5111-2-ND	2,500	99.00/M	C0805F224K5RACTU
	X7R	25	.47µF	±10%	1.25	399-5112-1-ND	4.57	27.50	51.56	399-5112-2-ND	2,500	99.00/M	C0805F474K3RACTU
1206	X7R	100	.1µF	±10%	0.78	399-5113-1-ND	5.26	31.70	59.44	399-5113-2-ND	4,000	108.00/M	C1206F104K1RACTU
	X7R	50	.22µF	±10%	0.9	399-5114-1-ND	5.92	37.09	72.85	399-5114-2-ND	4,000	132.00/M	C1206F224K5RACTU
	X7R	50	1µF	±10%	1.0	399-5115-1-ND	5.90	36.96	72.60	399-5115-2-ND	2,000	141.00/M	C1206F105K5RACTU
	X7R	25	.1µF	±10%	0.9	399-5615-1-ND	3.86	23.25	43.59	399-5615-2-ND	4,000	79.05/M	C1206F104K3RACTU
1210	X7R	50	2.2µF	±10%	1.7	399-5614-1-ND	8.44	52.92	103.95	399-5614-2-ND	2,000	201.60/M	C1210F225K5RACTU
	X7R	50	1µF	±10%	1.55	399-5116-1-ND	9.25	62.86	135.32	399-5116-2-ND	2,000	262.00/M	C1210F105K5RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

FT-CAP Flexible Terminations MLCC Capacitors

The "Flexible Termination (FT-CAP)" capacitor is a surface mount multi-layer ceramic capacitor that incorporates a unique, flexible termination system that is integrated with standard termination materials.

A conductive silver epoxy is utilized between the conductive metallization and nickel barrier finish in order to establish pliability while maintaining terminal strength, solderability and electrical performance, This technology was developed to address the primary failure mode of MLCC's, flex cracks, which are typically the result of excessive shear stresses produced during board flexure.

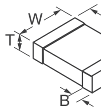

Size Code (EIA)	Dimensions - mm		
	L	W	B
0603	1.6 ±0.15	0.8 ±0.15	0.35 ±0.15
0805	2.0 ±0.2	1.25 (≥250V: 1.2) ±0.2	0.5 ±0.25
1206	3.4 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.4 ±0.2	2.5 ±0.2	0.5 ±0.25
1808	4.8 ±0.40	2.0 ±0.20	0.60 ± 0.35
1812	4.8 ±0.40	3.2 ±0.30	0.60 ±0.35
1825	4.8 ±0.40	6.4 ±0.40	0.60 ±0.35
2220	6.0 ±0.55	5.0 ±0.4	0.60 ±0.35
2225	6.0 ±0.55	6.4 ±0.40	0.60 ±0.35

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
0603	X7R	100	10000pF	±10%	0.8	399-5347-1-ND	4.13	21.56	39.84	399-5347-2-ND	4,000	69.00/M	C0603X103K1RACTU
	X7R	50	220pF	±10%	0.8	399-5342-1-ND	3.58	18.69	34.53	399-5342-2-ND	4,000	60.00/M	C0603X221K5RACTU
	X7R	50	470pF	±10%	0.8	399-5338-1-ND	3.58	18.69	34.53	399-5338-2-ND	4,000	60.00/M	C0603X471K5RACTU
	X7R	50	1000pF	±10%	0.8	399-5348-1-ND	3.58	18.69	34.53	399-5348-2-ND	4,000	60.00/M	C0603X102K5RACTU
	X7R	50	2200pF	±10%	0.8	399-5341-1-ND	3.58	18.69	34.53	399-5341-2-ND	4,000	60.00/M	C0603X222K5RACTU
	X7R	50	3300pF	±10%	0.8	399-5339-1-ND	3.58	18.69	34.53	399-5339-2-ND	4,000	60.00/M	C0603X332K5RACTU
	X7R	50	4700pF	±10%	0.8	399-5337-1-ND	3.58	18.69	34.53	399-5337-2-ND	4,000	60.00/M	C0603X472K5RACTU
	X7R	50	10000pF	±10%	0.8	399-5346-1-ND	3.58	18.69	34.53	399-5346-2-ND	4,000	60.00/M	C0603X103K5RACTU
	X7R	50	22000pF	±10%	0.8	399-5340-1-ND	3.99	20.87	38.57	399-5340-2-ND	4,000	67.00/M	C0603X223K5RACTU
	X7R	25	.1µF	±10%	0.8	399-5345-1-ND	4.13	21.56	39.84	399-5345-2-ND	4,000	69.00/M	C0603X104K3RACTU
	X7R	16	.1µF	±10%	0.8	399-5344-1-ND	4.13	21.56	39.84	399-5344-2-ND	4,000	69.00/M	C0603X104K4RACTU
	X7R	10	.1µF	±10%	0.8	399-5343-1-ND	4.13	21.56	39.84	399-5343-2-ND	4,000	69.00/M	C0603X104K8RACTU
0805	X7R	100	10000pF	±10%	0.78	399-5335-1-ND	3.99	20.87	38.57	399-5335-2-ND	4,000	67.00/M	C0805X103K1RACTU
	X7R	100	.1µF	±10%	1.0	399-5333-1-ND	3.34	20.15	37.78	399-5333-2-ND	2,500	73.00/M	C0805X104K1RACTU
	X7R	50	470pF	±10%	0.78	399-5324-1-ND	3.44	18.00	33.26	399-5324-2-ND	4,000	58.00/M	C0805X471K5RACTU
	X7R	50	1000pF	±10%	0.78	399-5336-1-ND	3.44	18.00	33.26	399-5336-2-ND	4,000	58.00/M	C0805X102K5RACTU
	X7R	50	2200pF	±10%	0.78	399-5327-1-ND	3.44	18.00	33.26	399-5327-2-ND	4,000	58.00/M	C0805X222K5RACTU
	X7R	50	4700pF	±10%	0.78	399-5323-1-ND	3.44	18.00	33.26	399-5323-2-ND	4,000	58.00/M	C0805X472K5RACTU
	X7R	50	10000pF	±10%	0.78	399-5334-1-ND	3.44	18.00	33.26	399-5334-2-ND	4,000	58.00/M	C0805X103K5RACTU
	X7R	50	22000pF	±10%	0.78	399-5326-1-ND	3.85	20.13	37.19	399-5326-2-ND	4,000	65.00/M	C0805X223K5RACTU
	X7R	50	47000pF	±10%	0.78	399-5322-1-ND	3.43	20.65	38.72	399-5322-2-ND	4,000	70.00/M	C0805X473K5RACTU
	X7R	50	.1µF	±10%	0.9	399-5330-1-ND	4.98	30.00	56.25	399-5330-2-ND	4,000	102.00/M	C0805X104K5RACTU
	X7R	50	.22µF	±10%	0.9	399-5325-1-ND	6.85	42.97	84.40	399-5325-2-ND	4,000	153.00/M	C0805X224K5RACTU
	X7R	25	.1µF	±10%	0.9	399-5332-1-ND	4.98	30.00	56.25	399-5332-2-ND	4,000	102.00/M	C0805X104K3RACTU
	X7R	16	.1µF	±10%	0.9	399-5331-1-ND	4.98	30.00	56.25	399-5331-2-ND	4,000	102.00/M	C0805X104K4RACTU
	X7R	16	1µF	±10%	1.25	399-5329-1-ND	8.38	52.50	103.13	399-5329-2-ND	4,000	188.00/M	C0805X105K4RACTU
	X7R	10	1µF	±10%	1.25	399-5328-1-ND	8.38	52.50	103.13	399-5328-2-ND	4,000	188.00/M	C0805X105K8RACTU
1206	X7R	100	10000pF	±10%	0.78	399-5320-1-ND	3.64	21.90	41.06	399-5320-2-ND	4,000	74.00/M	C1206X103K1RACTU
	X7R	100	.1µF	±10%	0.78	399-5318-1-ND	5.05	31.63	62.12	399-5318-2-ND	4,000	113.00/M	C1206X104K1RACTU
	X7R	50	1000pF	±10%	0.78	399-5321-1-ND	4.13	21.56	39.84	399-5321-2-ND	4,000	69.00/M	C1206X102K5RACTU
	X7R	50	10000pF	±10%	0.78	399-5319-1-ND	4.13	21.56	39.84	399-5319-2-ND	4,000	69.00/M	C1206X103K5RACTU
	X7R	50	.1µF	±10%	0.78	399-5317-1-ND	4.47	26.90	50.44	399-5317-2-ND	4,000	91.00/M	C1206X104K5RACTU
	X7R	50	.22µF	±10%	0.78	399-5313-1-ND	7.12	44.65	87.70	399-5313-2-ND	4,000	159.00/M	C1206X224K5RACTU
	X7R	25	1µF	±10%	1.6	399-5316-1-ND	8.75	59.40	127.88	399-5316-2-ND	2,000	248.00/M	C1206X105K3RACTU
	X7R	16	1µF	±10%	1.2	399-5315-1-ND	7.95	54.00	116.25	399-5315-2-ND	2,500	225.00/M	C1206X105K4RACTU
	X7R	16	2.2µF	±10%	1.6	399-5613-1-ND	9.11	66.86	145.35	399-5613-2-ND	2,500	281.02/M	C1206X225K4RACTU
	X7R	16	10µF	±10%	1.6	399-5314-1-ND	11.79	94.88	208.44	399-5314-2-ND	2,000	403.00/M	C1206X106K4RACTU
1210	X7R	50	1µF	±10%	1.55	399-5312-1-ND	10.58	77.63	168.75	399-5312-2-ND	2,000	326.00/M	C1210X105K5RACTU
	X7R	50	4.7µF	±10%	2.5	399-5612-1-ND	14.88	119.79	263.18	399-5612-2-ND	1,000	544.50	C1210X475K5RACTU
1808	X7R	200	.01µF	±10%	0.90	399-5519-1-ND	8.88	65.21	141.75	399-5519-2-ND	2,500	274.06/M	C1808X103K2RACTU
	X7R	100	.027µF	±10%	0.90	399-5520-1-ND	8.27	56.16	120.90	399-5520-2-ND	2,500	234.00/M	C1808X273K1RACTU
	X7R	50	.1µF	±10%	0.90	399-5521-1-ND	9.02	66.24	144.00	399-5521-2-ND	2,500	278.40/M	C1808X104K5RACTU
1812	X7R	200	.1µF	±10%	1.55	399-5522-1-ND	11.97	96.33	211.63	399-5522-2-ND	1,000	437.85	C1812X104K2RACTU
	X7R	200	.22µF	±10%	1.55	399-5523-1-ND	9.15	67.14	145.95	399-5523-2-ND	1,000	301.63	C1812X224K2RACTU
	X7R	200	.47µF	±10%	1.90	399-5524-1-ND	9.87	72.45	157.50	399-5524-2-ND	1,000	325.50	C1812X474K2RACTU
	X7R	100	1µF	±10%	1.55	399-5525-1-ND	33.58	296.25	691.25	399-5525-2-ND	1,000	1382.50	C1812X105K1RACTU
	X7R	50	4.7µF	±10%	1.60	399-5526-1-ND	29.07	256.50	598.50	399-5526-2-ND	1,000	1197.00	C1812X475K5RACTU
	X7R	25	10µF	±10%	1.60	399-5527-1-ND	32.13	283.50	661.50	399-5527-2-ND	1,000	1323.00	C1812X106K3RACTU
1825	X7R	200	.68µF	±10%	1.30	399-5528-1-ND	21.99	194.04	452.76	399-5528-2-ND	1,000	905.52	C1825X684K2RACTU
	X7R	200	1µF	±10%	1.50	399-5529-1-ND	22.78	201.00	469.00	399-5529-2-ND	1,000	938.00	C1825X105K2RACTU
	X7R	50	2.2µF	±10%	1.50	399-5530-1-ND	43.20	391.50	877.50	399-5530-2-ND	1,000	1822.50	C1825X225K5RACTU
2220	X7R	50	10µF	±10%	2.40	399-5531-1-ND	44.40	402.38	901.88	399-5531-2-ND	500	1005.94	C2220X106K5RACTU
	X7R	50	15µF	±10%	2.40	399-5532-1-ND	53.48	474.38	1078.13	399-5532-2-ND	500	1207.50	C2220X156K5RACTU
	X7R	25	22µF	±10%	2.40	399-5533-1-ND	46.08	417.60	864.00	399-5533-2-ND	500	1044.00	C2220X226K3RACTU
2225	X7R	200	1µF	±10%	1.4	399-5534-1-ND	24.82	219.00	511.00	399-5534-2-ND	1,000	1022.00	C2225X105K2RACTU
	X7R	200	1.2µF	±10%	1.4	399-5535-1-ND	24.82	219.00	511.00	399-5535-2-ND	1,000	1022.00	C2225X125K2RACTU
	X7R	50	2.2µF	±10%	1.3	399-5536-1-ND	45.84	415.43	931.13	399-5536-2-ND	1,000	1933.88	C2225X225K5RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Capacitors

RPE Series

Features:

- Small size and large capacitance
- Low ESR characteristics for high frequency
- Coated with epoxy resin whose flammability is equivalent to UL 94V-0

Fig. 1 – Outside Crimp

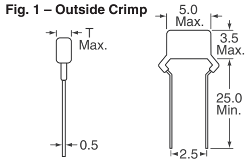

Fig. 2 – Inside Crimp

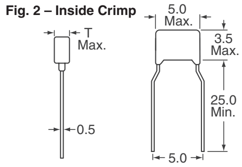

Fig. 3 – Inside Crimp

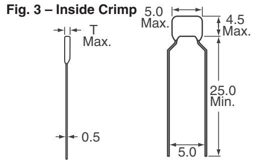

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
1	C0G	100	1.0pF	±0.25pF	2.5	490-3617-ND	.35	2.58	18.43	RPE5C2A1R0C2P1B03B
	C0G	100	1.2pF	±0.25pF	2.5	490-3618-ND	.37	2.75	19.68	RPE5C2A1R2C2P1B03B
	C0G	100	1.5pF	±0.25pF	2.5	490-3619-ND	.33	2.46	17.55	RPE5C2A1R5C2P1B03B
	C0G	100	1.8pF	±0.25pF	2.5	490-3620-ND	.31	2.30	16.45	RPE5C2A1R8C2P1B03B
	C0G	100	2.0pF	±0.25pF	2.5	490-3633-ND	.35	2.58	18.43	RPE5C2A2R0C2P1B03B
	C0G	100	2.2pF	±0.25pF	2.5	490-3634-ND	.33	2.46	17.55	RPE5C2A2R2C2P1B03B
	C0G	100	2.7pF	±0.25pF	2.5	490-3635-ND	.31	2.28	16.30	RPE5C2A2R7C2P1B03B
	C0G	100	3.0pF	±0.25pF	2.5	490-3643-ND	.35	2.58	18.43	RPE5C2A3R0C2P1B03B
	C0G	100	3.3pF	±0.25pF	2.5	490-3644-ND	.31	2.28	16.30	RPE5C2A3R3C2P1B03B
	C0G	100	3.6pF	±0.25pF	2.5	490-3645-ND	.31	2.28	16.30	RPE5C2A3R6C2P1B03B
	C0G	100	3.9pF	±0.25pF	2.5	490-3646-ND	.31	2.30	16.45	RPE5C2A3R9C2P1B03B
	C0G	100	4.7pF	±0.25pF	2.5	490-3653-ND	.33	2.46	17.55	RPE5C2A4R7C2P1B03B
	C0G	100	5.0pF	±0.25pF	2.5	490-3658-ND	.35	2.58	18.43	RPE5C2A5R0C2P1B03B
	C0G	100	5.6pF	±0.25pF	2.5	490-3659-ND	.40	2.98	21.25	RPE5C2A5R6C2P1B03B
	C0G	100	6.2pF	±0.25pF	2.5	490-3662-ND	.37	2.71	19.38	RPE5C2A6R2C2P1B03B
	C0G	100	6.8pF	±0.25pF	2.5	490-3663-ND	.37	2.71	19.38	RPE5C2A6R8C2P1B03B
	C0G	100	10pF	±5%	2.5	490-3623-ND	.35	2.58	18.43	RPE5C2A100J2P1Z03B
	C0G	100	11pF	±5%	2.5	490-3624-ND	.31	2.30	16.45	RPE5C2A110J2P1Z03B
	C0G	100	12pF	±5%	2.5	490-3626-ND	.35	2.58	18.43	RPE5C2A120J2P1Z03B
	C0G	100	13pF	±5%	2.5	490-3627-ND	.31	2.30	16.45	RPE5C2A130J2P1Z03B
	C0G	100	15pF	±5%	2.5	490-3629-ND	.35	2.58	18.43	RPE5C2A150J2P1Z03B
	C0G	100	16pF	±5%	2.5	490-3630-ND	.31	2.30	16.45	RPE5C2A160J2P1Z03B
	C0G	100	18pF	±5%	2.5	490-3632-ND	.35	2.58	18.43	RPE5C2A180J2P1Z03B
	C0G	100	20pF	±5%	2.5	490-3637-ND	.34	2.52	18.03	RPE5C2A200J2P1Z03B
	C0G	100	22pF	±5%	2.5	490-3639-ND	.35	2.58	18.43	RPE5C2A220J2P1Z03B
	C0G	100	24pF	±5%	2.5	490-3640-ND	.31	2.30	16.45	RPE5C2A240J2P1Z03B
	C0G	100	27pF	±5%	2.5	490-3642-ND	.35	2.58	18.43	RPE5C2A270J2P1Z03B
	C0G	100	30pF	±5%	2.5	490-3648-ND	.37	2.70	19.25	RPE5C2A300J2P1Z03B
	C0G	100	33pF	±5%	2.5	490-3650-ND	.35	2.58	18.43	RPE5C2A330J2P1Z03B
	C0G	100	39pF	±5%	2.5	490-3652-ND	.35	2.58	18.43	RPE5C2A390J2P1Z03B
	C0G	100	43pF	±5%	2.5	490-3655-ND	.31	2.30	16.45	RPE5C2A430J2P1Z03B
	C0G	100	47pF	±5%	2.5	490-3657-ND	.35	2.58	18.43	RPE5C2A470J2P1Z03B
	C0G	100	56pF	±5%	2.5	490-3661-ND	.35	2.58	18.43	RPE5C2A560J2P1Z03B
	C0G	100	75pF	±5%	2.5	490-3666-ND	.31	2.30	16.45	RPE5C2A750J2P1Z03B
	C0G	100	82pF	±5%	2.5	490-3668-ND	.35	2.58	18.43	RPE5C2A820J2P1Z03B
	C0G	100	91pF	±5%	2.5	490-3669-ND	.37	2.75	19.68	RPE5C2A910J2P1Z03B
	C0G	100	100pF	±5%	2.5	490-3622-ND	.35	2.58	18.43	RPE5C2A101J2P1Z03B
	C0G	100	120pF	±5%	2.5	490-3625-ND	.31	2.30	16.45	RPE5C2A121J2P1Z03B
	C0G	100	150pF	±5%	2.5	490-3628-ND	.33	2.46	17.55	RPE5C2A151J2P1Z03B
	C0G	100	180pF	±5%	2.5	490-3631-ND	.37	2.75	19.68	RPE5C2A181J2P1Z03B
	C0G	100	200pF	±5%	2.5	490-3636-ND	.37	2.75	19.68	RPE5C2A201J2P1Z03B
	C0G	100	220pF	±5%	2.5	490-3638-ND	.31	2.30	16.45	RPE5C2A221J2P1Z03B
	C0G	100	270pF	±5%	2.5	490-3641-ND	.37	2.70	19.25	RPE5C2A271J2P1Z03B
	C0G	100	300pF	±5%	2.5	490-3647-ND	.32	2.38	17.03	RPE5C2A301J2P1Z03B
	C0G	100	330pF	±5%	2.5	490-3649-ND	.37	2.71	19.38	RPE5C2A331J2P1Z03B
	C0G	100	390pF	±5%	2.5	490-3651-ND	.38	2.81	20.08	RPE5C2A391J2P1Z03B
	C0G	100	430pF	±5%	2.5	490-3654-ND	.34	2.51	17.93	RPE5C2A431J2P1Z03B
	C0G	100	470pF	±5%	2.5	490-3656-ND	.33	2.45	17.50	RPE5C2A471J2P1Z03B
	C0G	100	560pF	±5%	2.5	490-3660-ND	.38	2.81	20.08	RPE5C2A561J2P1B03B
	C0G	100	680pF	±5%	2.5	490-3664-ND	.30	2.24	15.98	RPE5C2A681J2P1B03B
	C0G	100	750pF	±5%	2.5	490-3665-ND	.38	2.81	20.08	RPE5C2A751J2P1B03B
	C0G	100	820pF	±5%	3.15	490-3667-ND	.43	3.14	22.45	RPE5C2A821J2P1B03B
	C0G	100	1,000pF	±5%	3.15	490-3621-ND	.50	3.71	26.50	RPE5C2A102J2P1B03B
	C0G	50	1.0pF	±0.25pF	2.5	490-3670-ND	.34	2.51	17.90	RPE5C1H1R0C2P1B03B
	C0G	50	1.2pF	±0.25pF	2.5	490-3671-ND	.36	2.62	18.70	RPE5C1H1R2C2P1B03B
	C0G	50	2.0pF	±0.25pF	2.5	490-3700-ND	.34	2.51	17.90	RPE5C1H2R0C2P1B03B
	C0G	50	2.7pF	±0.25pF	2.5	490-3702-ND	.30	2.24	15.98	RPE5C1H2R7C2P1B03B
	C0G	50	3.0pF	±0.25pF	2.5	490-3717-ND	.34	2.51	17.90	RPE5C1H3R0C2P1B03B
	C0G	50	3.3pF	±0.25pF	2.5	490-3718-ND	.30	2.24	15.98	RPE5C1H3R3C2P1B03B
	C0G	50	3.9pF	±0.25pF	2.5	490-3719-ND	.28	2.06	14.73	RPE5C1H3R9C2P1B03B
	C0G	50	4.0pF	±0.25pF	2.5	490-3734-ND	.34	2.51	17.90	RPE5C1H4R0C2P1B03B
	C0G	50	4.7pF	±0.25pF	2.5	490-3735-ND	.33	2.45	17.50	RPE5C1H4R7C2P1B03B
	C0G	50	5.1pF	±0.25pF	2.5	490-3743-ND	.35	2.60	18.58	RPE5C1H5R1C2P1B03B
	C0G	50	6.0pF	±0.5pF	2.5	490-3752-ND	.34	2.51	17.90	RPE5C1H6R0D2P1B03B
	C0G	50	6.8pF	±0.25pF	2.5	490-3753-ND	.35	2.60	18.58	RPE5C1H6R8C2P1B03B
	C0G	50	7.0pF	±0.5pF	2.5	490-3760-ND	.34	2.51	17.90	RPE5C1H7R0D2P1Z03B
	C0G	50	8.0pF	±0.5pF	2.5	490-3763-ND	.34	2.51	17.90	RPE5C1H8R0D2P1Z03B
	C0G	50	8.2pF	±0.25pF	2.5	490-3764-ND	.42	3.07	21.93	RPE5C1H8R2C2P1Z03B
	C0G	50	9.0pF	±0.5pF	2.5	490-3771-ND	.34	2.51	17.90	RPE5C1H9R0D2P1Z03B
	C0G	50	9.1pF	±0.25pF	2.5	490-3772-ND	.36	2.62	18.73	RPE5C1H9R1C2P1Z03B
	C0G	50	10pF	±5%	2.5	490-3678-ND	.34	2.51	17.90	RPE5C1H100J2P1Z03B
	C0G	50	12pF	±5%	2.5	490-3684-ND	.34	2.51	17.90	RPE5C1H120J2P1Z03B
	C0G	50	13pF	±5%	2.5	490-3686-ND	.33	2.45	17.50	RPE5C1H130J2P1Z03B
	C0G	50	15pF	±5%	2.5	490-3691-ND	.34	2.51	17.90	RPE5C1H150J2P1Z03B
	C0G	50	18pF	±5%	2.5	490-3697-ND	.34	2.51	17.90	RPE5C1H180J2P1Z03B
	C0G	50	20pF	±5%	2.5	490-3703-ND	.32	2.39	17.05	RPE5C1H200J2P1Z03B
	C0G	50	22pF	±5%	2.5	490-3708-ND	.34	2.51	17.90	RPE5C1H220J2P1Z03B
	C0G	50	24pF	±5%	2.5	490-3710-ND	.30	2.24	15.98	RPE5C1H240J2P1Z03B
	C0G	50	27pF	±5%	2.5	490-3714-ND	.34	2.51	17.90	RPE5C1H270J2P1Z03B
	C0G	50	30pF	±5%	2.5	490-3721-ND	.30	2.24	16.00	RPE5C1H300J2P1Z03B
	C0G	50	33pF	±5%	2.5	490-3725-ND	.34	2.51	17.90	RPE5C1H330J2P1Z03B
	C0G	50	39pF	±5%	2.5	490-3731-ND	.34	2.51	17.90	RPE5C1H390J2P1Z03B
	C0G	50	43pF	±5%	2.5	490-3736-ND	.32	2.39	17.05	RPE5C1H430J2P1Z03B
	C0G	50	47pF	±5%	2.5	490-3740-ND	.34	2.51	17.90	RPE5C1H470J2P1Z03B
	C0G	50	51pF	±5%	2.5	490-3745-ND	.30	2.22	15.85	RPE5C1H510J2P1Z03B
	C0G	50	56pF	±5%	2.5	490-3749-ND	.34	2.51	17.90	RPE5C1H560J2P1Z03B
	C0G	50	68pF	±5%	2.5	490-3757-ND	.34	2.51	17.90	RPE5C1H680J2P1Z03B
	C0G	50	75pF	±5%	2.5	490-3761-ND	.30	2.24	15.98	RPE5C1H750J2P1Z03B
	C0G	50	82pF	±5%	2.5	490-3768-ND	.34	2.51	17.90	RPE5C1H820J2P1Z03B
	C0G	50	91pF	±5%	2.5	490-3773-ND	.36	2.62	18.70	RPE5C1H910J2P1Z03B
	C0G	50	100pF	±5%	2.5	490-3676-ND	.33	2.43	17.33	RPE5C1H101J2P1A03B
	C0G	50	120pF	±5%	2.5	490-3682-ND	.33	2.43	17.33	RPE5C1H121J2P1A03B
	C0G	50	150pF	±5%	2.5	490-3689-ND	.33	2.43	17.33	RPE5C1H151J2P1A03B
	C0G	50	180pF	±5%	2.5	490-3695-ND	.33	2.43	17.33	RPE5C1H181J2P1A03B
	C0G	50	220pF	±5%	2.5	490-3706-ND	.33	2.43	17.33	RPE5C1H221J2P1A03B
	C0G	50	270pF	±5%	2.5	490-3712-ND	.33	2.43	17.33	RPE5C1H271J2P1A03B
	C0G	50	300pF	±5%	2.5	490-3720-ND	.30	2.22	15.85	RPE5C1H301J2P1A03B
	C0G	50	330pF	±5%	2.5	490-3723-ND	.34	2.51	17.90	RPE5C1H331J2P1A03B
	C0G	50	360pF	±5%	2.5	490-3727-ND	.30	2.22	15.85	RPE5C1H361J2P1A03B
	C0G	50	390pF	±5%	2.5	490-3729-ND	.34	2.51	17.90	RPE5C1H391J2P1A03B
	C0G	50	470pF	±5%	2.5	490-3738-ND	.35	2.61	18.63	RPE5C1H471J2P1A03B
	C0G	50	560pF	±5%	2.5	490-3747-ND	.35	2.61	18.63	RPE5C1H561J2P1A03B
	C0G	50	680pF	±5%	2.5	490-3755-ND	.38	2.79	19.93	RPE5C1H681J2P1A03B
	C0G	50	820pF	±5%	2.5	490-3766-ND	.38	2.79	19.93	RPE5C1H821J2P1A03B
	C0G	50	1,000pF	±5%	2.5	490-3674-ND	.43	3.16	22.58	RPE5C1H102J2P1A03B
	C0G	50	1,200pF	±5%	3.15	490-3680-ND	.43	3.16	22.58	RPE5C1H122J2P1A03B
	C0G	50	1,500pF	±5%	3.15	490-3687-ND	.50	3.71	26.50	RPE5C1H152J2P1A03B
	C0G	50	1,800pF	±5%	3.15	490-3693-ND	.51	3.74	26.70	RPE5C1H182J2P1C03B
	C0G	50	2,200pF	±5%	3.15	490-3704-ND	.51	3.74	26.70	RPE5C1H222J2P1C03B
	X7R	100	220pF	±10%	2.5	490-3780-ND	.35	2.58	18.43	RPER72A221K2P1B03B
	X7R	100	270pF	±10%	2.5	490-3782-ND	.31	2.30	16.45	RPER72A271K2P1B03B
	X7R	100	330pF	±10%	2.5	490-3784-ND	.35	2.58	18.43	RPER72A331K2P1B03B
	X7R	100	470pF	±10%	2.5	490-3786-ND	.35	2.58	18.43	RPER72A471K2P1B03B
	X7R	100	680pF	±10%	2.5	490-3788-ND	.35	2.58	18.43	RPER72A681K2P1B03B
	X7R	100	820pF	±10%	2.5	490-3790-ND	.31	2.30	16.45	RPER72A821K2P1B03B
	X7R	100	1,000pF	±10%	2.5	490-3774-ND	.29	2.10	15.03	RPER72A102K2P1A03B
	X7R	100	1,200pF	±10%	2.5	490-3776-ND	.31	2.26	16.13	RPER72A122K2P1A03B
	X7R	100	1,500pF	±10%	2.5	490-3777-ND	.29	2.15	15.35	RPER72A152K2P1A03B
	X7R	100	1,800pF	±10%	2.5	490-3778-ND	.26	1.92	13.70	RPER72A182K2P1A03B
	X7R	100	2,200pF	±10%	2.5	490-3779-ND	.29	2.10	15.03	RPER72A222K2P1A03B
	X7R	100	2,700pF	±10%	2.5	490-3781-ND	.26	1.90	13.60	RPER72A272K2P1A03B
	X7R	100	3,300pF	±10%	2.5	490-3783-ND	.29	2.15	15.35	RPER72A332K2P1A03B
	X7R	100	4,700pF	±10%	2.5	490-3785-ND	.29	2.10	15.03	RPER72A472K2P1A03B
	X7R	100	5,600pF	±10%	2.5	490-3787-ND	.32	2.36	16.85	RPER72A562K2P1A03B
	X7R	100	8,200pF	±10%	3.15	490-3789-ND	.32	2.35	16.80	RPER72A822K2P1A03B
	X7R	100	12,000pF	±10%	3.15	490-3775-ND	.36	2.63	18.75	RPER72A123K2P1A03B
	X7R	50	220pF	±10%	2.5	490-3829-ND	.25	1.85	13.20	RPER71H221K2P1A03B
	X7R	50	330pF	±10%	2.5	490-3837-ND	.24	1.79	12.75	RPER71H331K2P1A03B
	X7R	50	390pF	±10%	2.5	490-3840-ND	.24	1.75	12.50	RPER71H391K2P1A03B
	X7R	50	470pF	±10%	2.5	490-3846-ND	.24	1.76	12.55	RPER71H471K2P1A03B
	X7R	50	560pF	±10%	2.5	490-3850-ND	.22	1.60	11.43	RPER71H561K2P1A03B
	X7R	50	680pF	±10%	2.5	490-3856-ND	.24	1.79	12.80	RPER71H681K2P1A03B
	X7R	50	820pF	±10%	2.5	490-3858-ND	.22	1.60	11.43	RPER71H821K2P1A03B
	X7R	50	1,000pF	±10%	2.5	490-3814-ND	.24	1.79	12.75	RPER71H102K2P1A03B
	X7R	50	1,200pF	±10%	2.5	490-3816-ND	.23	1.72	12.30	RPER71H122K2P1A03B
	X7R	50	1,500pF	±10%	2.5	490-3820-ND	.26	1.93	13.78	RPER71H152K2P1A03B
	X7R	50	1,800pF	±10%	2.5	490-3823-ND	.23	1.72	12.30	RPER71H182K2P1A03B
	X7R	50	2,200pF	±10%	2.5	490-3827-ND	.24	1.79	12.75	RPER71H222K2P1A03B
	X7R	50	2,700pF	±10%	2.5	490-3831-ND	.24	1.75	12.50	RPER71H272K2P1A03B
	X7R	50	3,300pF	±10%	2.5	490-3835-ND	.27	1.96	13.98	RPER71H332K2P1A03B
	X7R	50	3,900pF	±10%	2.5	490-3839-ND	.25	1.86	13.30	RPER71H392K2P1A03B
	X7R	50	4,700pF	±10%	2.5	490-3844-ND	.25	1.81	12.95	RPER71H472K2P1A03B
	X7R	50	5,600pF	±10%	2.5	490-3849-ND	.28	2.09	14.93	RPER71H562K2P1A03B
	X7R	50	6,800pF	±10%	2.5	490-3854-ND	.27	1.96	13.98	RPER71H682K2P1A03B
	X7R	50	10,000pF	±10%	2.5	490-3812-ND	.19	1.38	9.83	RPER71H103K2P1A03B
	X7R	50	15,000pF	±10%	2.5	490-3818-ND	.27	1.96	13.98	RPER71H153K2P1A03B
	X7R	50	18,000pF	±10%	2.5	490-3822-ND	.24	1.73	12.38	RPER71H183K2P1A03B
	X7R	50	22,000pF	±10%	2.5	490-3825-ND	.21	1.56	11.13	RPER71H223K2P1A03B
	X7R	50	33,000pF	±10%	3.15	490-3833-ND	.23	1.71	12.20	RPER71H333K2P1A03B
	X7R	50	47,000pF	±10%	3.15	490-3842-ND	.23	1.71	12.23	RPER71H473K2P1A03B
	X7R	50	56,000pF	±10%	3.15	490-3848-ND	.38	2.77	19.80	RPER71H563K2P1A03B
	X7R	50	68,000pF	±10%	3.15	490-3852-ND	.38	2.77	19.80	RPER71H683K2P1A03B
	X7R	50	.1µF	±10%	3.15	490-3810-ND	.18	1.34	9.60	RPER71H104K2P1A03B
	Z5U	100	3,300pF	±20%	2.5	490-3870-ND	.52	3.82	27.28	RPEE42A332M2P1B03B
	Z5U	100	4,700pF	±20%	2.5	490-3871-ND	.36	2.65	18.93	RPEE42A472M2P1B03B
	Z5U	100	6,800pF	±20%	2.5	490-3872-ND	.48	3.55	25.38	RPEE42A682M2P1B03B
	Z5U	100	10,000pF	±20%	2.5	490-3868-ND	.71	5.20	37.13	RPEE42A103M2P1B03B
	Z5U	100	15,000pF	±20%	2.5	490-3869-ND	.50	3.71	26.50	RPEE42A153M2P1B03B
	Z5U	50	1,000pF	±20%	2.5	490-3875-ND	.32	2.38	17.00	RPEE41H102M2P1A03B
	Z5U	50	2,200pF	±20%	2.5	490-3877-ND	.33	2.43	17.35	RPEE41H222M2P1A03B
	Z5U	50	3,300pF	±20%	2.5	490-3879-ND	.24	1.76	12.58	RPEE41H332M2P1A03B
	Z5U	50	4,700pF	±20%	2.5	490-3881-ND	.34	2.47	17.65	RPEE41H472M2P1A03B
	Z5U	50	10,000pF	±20%	2.5	490-3874-ND	.27	1.98	14.18	RPEE41H103M2P1A03B
	Z5U	50	22,000pF	±20%	2.5	490-3876-ND	.22	1.62	11.58	RPEE41H223M2P1A03B
	Z5U	50	33,000pF	±20%	2.5	490-3878-ND	.20	1.45	10.38	RPEE41H333M2P1B03B
	Z5U	50	47,000pF	±20%	2.5	490-3880-ND	.28	2.03	14.48	RPEE41H473M2P1A03B
	Z5U	50	.1µF	±20%	2.5	490-3873-ND	.17	1.27	9.08	RPEE41H104M2P1A03B
2	C0G	50	1.0pF	±0.25pF	2.5	490-3699-ND	.34	2.51	17.90	RPE5C1H1R0C2K1B03B
	C0G	50	2.0pF	±0.25pF	2.5	490-3716-ND	.34	2.51	17.90	RPE5C1H2R0C2K1B03B
	C0G	50	3.0pF	±0.25pF	2.5	490-3733-ND	.34	2.50	17.88	RPE5C1H3R0C2K1B03B
	C0G	50	4.0pF	±0.25pF	2.5	490-3742-ND	.34	2.51	17.90	RPE5C1H4R0C2K1B03B
	C0G	50	5.0pF	±0.25pF	2.5	490-3751-ND	.34	2.51	17.90	RPE5C1H5R0C2K1B03B
	C0G	50	6.0pF	±0.5pF	2.5	490-3759-ND	.34	2.51	17.90	RPE5C1H6R0D2K1B03B
	C0G	50	7.0pF	±0.5pF	2.5	490-3762-ND	.34	2.51	17.90	RPE5C1H7R0D2K1Z03B
	C0G	50	8.0pF	±0.5pF	2.5	490-3770-ND	.34	2.51	17.90	RPE5C1H8R0D2K1Z03B
	C0G	50	10pF	±5%	2.5	490-3679-ND	.34	2.51	17.90	RPE5C1H100J2K1Z03B
	C0G	50	12pF	±5%	2.5	490-3685-ND	.34	2.51	17.90	RPE5C1H120J2K1Z03B
	C0G	50	15pF	±5%	2.5	490-3692-ND	.34	2.51	17.90	RPE5C1H150J2K1Z03B
	C0G	50	18pF	±5%	2.5	490-3698-ND	.34	2.51	17.90	RPE5C1H180J2K1Z03B
	C0G	50	22pF	±5%	2.5	490-3709-ND	.34	2.51	17.90	RPE5C1H220J2K1Z03B
	C0G	50	27pF	±5%	2.5	490-3715-ND	.34	2.51	17.90	RPE5C1H270J2K1Z03B
	C0G	50	33pF	±5%	2.5	490-3726-ND	.34	2.51	17.90	RPE5C1H330J2K1Z03B
	C0G	50	39pF	±5%	2.5	490-3732-ND	.34	2.51	17.90	RPE5C1H390J2K1Z03B
	C0G	50	47pF	±5%	2.5	490-3741-ND	.34	2.51	17.90	RPE5C1H470J2K1Z03B
	C0G	50	56pF	±5%	2.5	490-3750-ND	.34	2.51	17.90	RPE5C1H560J2K1A03B
	C0G	50	68pF	±5%	2.5	490-3758-ND	.34	2.51	17.90	RPE5C1H680J2K1Z03B
	C0G	50	82pF	±5%	2.5	490-3769-ND	.34	2.51	17.90	RPE5C1H820J2K1Z03B
	C0G	50	100pF	±5%	2.5	490-3677-ND	.33	2.43	17.33	RPE5C1H101J2K1A03B
	C0G	50	120pF	±5%	2.5	490-3683-ND	.33	2.43	17.33	RPE5C1H121J2K1A03B
	C0G	50	150pF	±5%	2.5	490-3690-ND	.33	2.43	17.33	RPE5C1H151J2K1A03B
	C0G	50	180pF	±5%	2.5	490-3696-ND	.33	2.43	17.33	RPE5C1H181J2K1A03B
	C0G	50	220pF	±5%	2.5	490-3707-ND	.33	2.43	17.33	RPE5C1H221J2K1A03B
	C0G	50	270pF	±5%	2.5	490-3713-ND	.33	2.43	17.33	RPE5C1H271J2K1A03B
	C0G	50	330pF	±5%	2.5	490-3724-ND	.34	2.51	17.90	RPE5C1H331J2K1A03B
	C0G	50	390pF	±5%	2.5	490-3730-ND	.34	2.51	17.90	RPE5C1H391J2K1A03B
	C0G	50	470pF	±5%	2.5	490-3739-ND	.35	2.61	18.63	RPE5C1H471J2K1A03B

(Continued)

Monolithic Ceramic Capacitors
RPE Series *(Cont.)*

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Pricing			Murata Part No.
							1	10	100	
2	C0G	50	560pF	±5%	2.5	490-3748-ND	.35	2.61	18.63	RPE5C1H561J2K1A03B
	C0G	50	680pF	±5%	2.5	490-3756-ND	.38	2.79	19.93	RPE5C1H681J2K1A03B
	C0G	50	820pF	±5%	2.5	490-3767-ND	.38	2.79	19.93	RPE5C1H821J2K1A03B
	C0G	50	1,000pF	±5%	2.5	490-3675-ND	.43	3.16	22.58	RPE5C1H102J2K1A03B
	C0G	50	1,200pF	±5%	3.15	490-3681-ND	.43	3.16	22.58	RPE5C1H122J2K1A03B
	C0G	50	1,500pF	±5%	3.15	490-3688-ND	.50	3.71	26.50	RPE5C1H152J2K1A03B
	C0G	50	1,800pF	±5%	3.15	490-3694-ND	.51	3.74	26.70	RPE5C1H182J2K1A03B
	C0G	50	2,200pF	±5%	3.15	490-3705-ND	.51	3.74	26.70	RPE5C1H222J2K1A03B
	C0G	50	2,700pF	±5%	3.15	490-3711-ND	.51	3.74	26.70	RPE5C1H272J2K1A03B
	C0G	50	3,300pF	±5%	3.15	490-3722-ND	.56	4.16	29.70	RPE5C1H332J2K1A03B
	C0G	50	3,900pF	±5%	3.15	490-3728-ND	.60	4.44	31.73	RPE5C1H392J2K1A03B
	C0G	50	4,700pF	±5%	3.15	490-3737-ND	.62	4.58	32.70	RPE5C1H472J2K1A03B
	C0G	50	5,600pF	±5%	3.15	490-3746-ND	.62	4.58	32.70	RPE5C1H562J2K1A03B
	C0G	50	6,800pF	±5%	3.15	490-3754-ND	.67	4.96	35.45	RPE5C1H682J2K1C03B
	C0G	50	8,200pF	±5%	3.15	490-3765-ND	.72	5.30	37.83	RPE5C1H822J2K1C03B
	C0G	50	10,000pF	±5%	3.15	490-3673-ND	.76	5.64	40.25	RPE5C1H103J2K1C03B
	X7R	50	220pF	±10%	2.5	490-3830-ND	.25	1.85	13.20	RPER71H221K2K1A03B
	X7R	50	330pF	±10%	2.5	490-3838-ND	.24	1.79	12.75	RPER71H331K2K1A03B
	X7R	50	470pF	±10%	2.5	490-3847-ND	.24	1.76	12.55	RPER71H471K2K1A03B
	X7R	50	680pF	±10%	2.5	490-3857-ND	.24	1.79	12.80	RPER71H681K2K1A03B
	X7R	50	1,000pF	±10%	2.5	490-3815-ND	.24	1.79	12.75	RPER71H102K2K1A03B
	X7R	50	1,500pF	±10%	2.5	490-3821-ND	.26	1.93	13.78	RPER71H152K2K1A03B
	X7R	50	2,200pF	±10%	2.5	490-3828-ND	.24	1.79	12.75	RPER71H222K2K1A03B
	X7R	50	3,300pF	±10%	2.5	490-3836-ND	.27	1.96	13.98	RPER71H332K2K1A03B
2	X7R	50	4,700pF	±10%	2.5	490-3845-ND	.25	1.81	12.95	RPER71H472K2K1A03B
	X7R	50	6,800pF	±10%	2.5	490-3855-ND	.27	1.96	13.98	RPER71H682K2K1A03B
	X7R	50	10,000pF	±10%	2.5	490-3813-ND	.19	1.38	9.83	RPER71H103K2K1A03B
	X7R	50	15,000pF	±10%	2.5	490-3819-ND	.27	1.96	13.98	RPER71H153K2K1A03B
	X7R	50	22,000pF	±10%	2.5	490-3826-ND	.21	1.56	11.13	RPER71H223K2K1A03B
	X7R	50	33,000pF	±10%	3.15	490-3834-ND	.23	1.71	12.20	RPER71H333K2K1A03B
	X7R	50	47,000pF	±10%	3.15	490-3843-ND	.23	1.71	12.23	RPER71H473K2K1A03B
	X7R	50	68,000pF	±10%	3.15	490-3853-ND	.38	2.77	19.80	RPER71H683K2K1A03B
	X7R	50	.1µF	±10%	3.15	490-3811-ND	.18	1.34	9.60	RPER71H104K2K1A03B
	X7R	50	.15µF	±10%	3.15	490-3817-ND	.64	4.74	33.88	RPER71H154K2K1C03B
	X7R	50	.22µF	±10%	3.15	490-3824-ND	.57	4.22	30.15	RPER71H224K2K1C03B
	X7R	50	.33µF	±10%	3.15	490-3832-ND	.74	5.49	39.20	RPER71H334K2K1C03B
	X7R	50	.47µF	±10%	3.15	490-3841-ND	.71	5.25	37.50	RPER71H474K2K1C03B
	Y5V	50	1,000pF	±80%-20%	2.5	490-3861-ND	.27	1.98	14.18	RPEF51H102Z2K1A03B
	Y5V	50	2,200pF	±80%-20%	2.5	490-3864-ND	.27	1.98	14.18	RPEF51H222Z2K1A03B
	Y5V	50	4,700pF	±80%-20%	2.5	490-3867-ND	.27	1.98	14.18	RPEF51H472Z2K1A03B
	Y5V	50	10,000pF	±80%-20%	2.5	490-3860-ND	.21	1.53	10.90	RPEF51H103Z2K1A03B
	Y5V	50	22,000pF	±80%-20%	2.5	490-3863-ND	.21	1.56	11.18	RPEF51H223Z2K1A03B
	Y5V	50	47,000pF	±80%-20%	2.5	490-3866-ND	.21	1.56	11.18	RPEF51H473Z2K1A03B
	Y5V	50	.1µF	±80%-20%	2.5	490-3859-ND	.12	.85	6.10	RPEF51H104Z2K1A03B
	Y5V	50	.22µF	±80%-20%	3.15	490-3862-ND	.25	1.84	13.13	RPEF51H224Z2K1A03B
	Y5V	50	.47µF	±80%-20%	3.15	490-3865-ND	.37	2.75	19.63	RPEF51H474Z2K1C03B
3	X7R	50	.68µF	±10%	3.15	490-3851-ND	1.81	13.37	95.48	RPER71H684K3K1C03B

RDE Series

Features:

- Small size and large capacitance
- Low ESR characteristics for high frequency
- Coated with epoxy resin whose flammability is equivalent to UL 94V-0

Fig. 1 – Inside Crimp

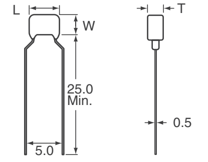

Dimension Code	Dimensions (mm) Max. Length (L)	Width (W)	Thickness (T)
A	4.0	3.5	2.5
B	4.5	3.5	3.15
C	5.0	3.5	3.15
D	5.0	4.5	3.15
E	5.5	4.0	3.15
F	5.5	5.0	4.0
G	7.5	5.5	3.15

Fig. 2 – Straight Long

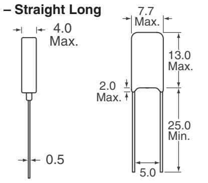

Fig. 3 – Straight Long

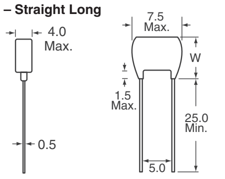

Digi-Key Part Number	(W) Width Max. (mm)
490-4826-ND	8.0
490-4819-ND	7.5

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. Code	Digi-Key Part No.	Pricing			Murata Part No.
							1	10	100	
				Upgraded Voltage Ratings						
1	X7R	50V	220pF	±10%	A	490-5353-ND✔	.24	1.79	12.80	RDER71H221K0K1C03B
	X7R	50V	330pF	±10%	A	490-5354-ND✔	.23	1.73	12.35	RDER71H331K0K1C03B
	X7R	50V	470pF	±10%	A	490-5355-ND✔	.23	1.73	12.35	RDER71H471K0K1C03B
	X7R	50V	680pF	±10%	A	490-5356-ND✔	.24	1.76	12.60	RDER71H681K0K1C03B
	X7R	50V	1000pF	±10%	A	490-5357-ND✔	.22	1.61	11.50	RDER71H102K0K1C03B
	X7R	50V	1500pF	±10%	A	490-5358-ND✔	.24	1.74	12.40	RDER71H152K0K1C03B
	X7R	50V	2200pF	±10%	A	490-5359-ND✔	.22	1.61	11.50	RDER71H222K0K1C03B
	X7R	50V	3300pF	±10%	A	490-5360-ND✔	.24	1.76	12.60	RDER71H332K0K1C03B
	X7R	50V	4700pF	±10%	A	490-5361-ND✔	.22	1.64	11.70	RDER71H472K0K1C03B
	X7R	50V	6800pF	±10%	A	490-5362-ND✔	.24	1.76	12.60	RDER71H682K0K1C03B
	X7R	50V	10000pF	±10%	A	490-5363-ND✔	.17	1.25	8.90	RDER71H103K0K1C03B
	X7R	50V	.015µF	±10%	A	490-5364-ND✔	.24	1.76	12.60	RDER71H153K0K1C03B
	X7R	50V	.022µF	±10%	A	490-5365-ND✔	.19	1.41	10.10	RDER71H223K0K1C03B
	X7R	50V	.033µF	±10%	A	490-5366-ND✔	.21	1.55	11.08	RDER71H333K0K1C03B
	X7R	50V	.047µF	±10%	A	490-5367-ND✔	.23	1.67	11.90	RDER71H473K0K1C03B
	X7R	50V	.068µF	±10%	A	490-5368-ND✔	.37	2.69	19.23	RDER71H683K0K1C03B
	X7R	50V	.1µF	±10%	A	490-5369-ND✔	.15	1.11	7.95	RDER71H104K0K1C03B
	X7R	25V	.1µF	±10%	A	490-5380-ND✔	.30	2.23	15.95	RDER71E104K0K1C03B
	X7R	50V	.15µF	±10%	B	490-5370-ND✔	.64	4.69	33.50	RDER71H154K1K1C03B
	X7R	50V	.22µF	±10%	B	490-5371-ND✔	.57	4.17	29.75	RDER71H224K1K1C03B
	X7R	50V	.33µF	±10%	B	490-5372-ND✔	.74	5.44	38.88	RDER71H334K1K1C03B
	X7R	50V	.47µF	±10%	B	490-5373-ND✔	.70	5.16	36.83	RDER71H474K1K1C03B
	X7R	630	1,000pF	±10%	C	490-4823-ND	.82	6.06	43.30	RDER72J102K2K1C11B
	X7R	630	1,500pF	±10%	C	490-4825-ND	.85	6.23	44.50	RDER72J152K2K1C11B
	X7R	630	2,200pF	±10%	C	490-4828-ND	.88	6.46	46.13	RDER72J222K2K1C11B
	X7R	630	3,300pF	±10%	C	490-4830-ND	.88	6.46	46.13	RDER72J332K2K1C11B
	X7R	630	4,700pF	±10%	C	490-4833-ND	.88	6.51	46.53	RDER72J472K2K1C11B
	X7R	630	6,800pF	±10%	C	490-4834-ND	.93	6.85	48.95	RDER72J682K2K1C11B
	X7R	630	10,000pF	±10%	C	490-4822-ND	.93	6.85	48.95	RDER72J103K2K1C11B
	X7R	630	15,000pF	±10%	C	490-4824-ND	.93	6.85	48.95	RDER72J153K2K1C11B
	X7R	250	15,000pF	±10%	C	490-4817-ND	.92	6.80	48.55	RDER72E153K2K1C11B
	X7R	630	22,000pF	±10%	D	490-4827-ND	1.18	8.72	62.30	RDER72J223K3K1C11B
	X7R	630	33,000pF	±10%	D	490-4829-ND	1.22	9.01	64.33	RDER72J333K3K1C11B
	X7R	630	47,000pF	±10%	D	490-4832-ND	1.51	11.16	79.70	RDER72J473K3K1C11B
1	X7R	250	68,000pF	±10%	D	490-4820-ND	1.11	8.16	58.25	RDER72E683K3K1C11B
	X7R	250	.1µF	±10%	D	490-4816-ND	1.11	8.16	58.25	RDER72E104K3K1C11B
	X7R	50V	.68µF	±10%	E	490-5374-ND✔	1.64	12.06	86.18	RDER71H684K2K1C03B
	X7R	50V	1.0µF	±10%	E	490-5375-ND✔	.82	6.06	43.30	RDER71H105K2K1C03B
	X7R	50V	1.5µF	±10%	E	490-5376-ND✔	1.02	7.53	53.80	RDER71H155K2K1C03B
	X7R	50V	2.2µF	±10%	E	490-5377-ND✔	1.27	9.35	66.75	RDER71H225K2K1C03B
	X7R	50V	3.3µF	±10%	F	490-5378-ND✔	1.69	12.46	89.00	RDER71H335K3K1C03B
	X7R	630	.10µF	±10%	G	490-4821-ND	2.28	16.82	120.15	RDER72J104K8K1C11B
	X7R	250	.22µF	±10%	G	490-4818-ND	2.29	16.88	120.55	RDER72E224K8K1C11B
	X7S	25V	.22µF	±10%	A	490-5381-ND✔	.37	2.72	19.43	RDEC71E224K0K1C03B
	X7S	25V	.47µF	±10%	A	490-5382-ND✔	.59	4.33	30.93	RDEC71E474K0K1C03B
	X7S	25V	1.0µF	±10%	A	490-5383-ND✔	.67	4.96	35.45	RDEC71E105K0K1C03B
	X7S	25V	2.2µF	±10%	B	490-5384-ND✔	.81	5.95	42.48	RDEC71E225K1K1C03B
	X7S	50V	4.7µF	±10%	E	490-5379-ND✔	1.98	14.61	104.38	RDEC71H475K2K1C03B
	X7S	25V	4.7µF	±10%	E	490-5385-ND✔	1.10	8.10	57.85	RDEC71E475K2K1C03B
	X7S	25V	10µF	±10%	E	490-5386-ND✔	2.10	15.46	110.43	RDEC71E106K2K1C03B
	X7S	25V	22µF	±10%	F	490-5387-ND✔	5.42	39.92	285.18	RDEC71E226K3K1C03B
	Z5U	50V	.1µF	±20%	A	490-5388-ND✔	.17	1.23	8.75	RDEE41H104M0K1C03B
	Z5U	50V	.22µF	±20%	A	490-5389-ND✔	.32	2.33	16.65	RDEE41H224M0K1C03B
	Z5U	50V	.47µF	±20%	B	490-5390-ND✔	.47	3.45	24.68	RDEE41H474M1K1C03B
	Z5U	50V	1.0µF	±20%	E	490-5391-ND✔	.53	3.92	27.98	RDEE41H105M2K1C03B
	Z5U	50V	1.5µF	±20%	E	490-5392-ND✔	1.28	9.42	67.25	RDEE41H155M2K1C03B
	Z5U	50V	2.2µF	±20%	E	490-5393-ND✔	1.59	11.68	83.43	RDEE41H225M2K1C03B
	Z5U	50V	4.7µF	±20%	E	490-5395-ND✔	2.48	18.26	130.45	RDEE41H475M2K1C03B
	Z5U	50V	3.3µF	±20%	F	490-5394-ND✔	1.69	12.45	88.95	RDEE41H335M3K1C03B
	Y5V	50V	10000pF	-20%, +80%	A	490-5396-ND✔	.17	1.26	9.03	RDEF51H103Z0K1C03B
	Y5V	50V	.015µF	-20%, +80%	A	490-5397-ND✔	.26	1.94	13.83	RDEF51H153Z0K1C03B
	Y5V	50V	.022µF	-20%, +80%	A	490-5398-ND✔	.19	1.42	10.13	RDEF51H223Z0K1C03B
	Y5V	50V	.033µF	-20%, +80%	A	490-5399-ND✔	.26	1.94	13.83	RDEF51H333Z0K1C03B
	Y5V	50V	.047µF	-20%, +80%	A	490-5400-ND✔	.19	1.42	10.13	RDEF51H473Z0K1C03B
	Y5V	50V	.1µF	-20%, +80%	A	490-5401-ND✔	.11	.82	5.88	RDEF51H104Z0K1C03B
2	X7R	630	.47µF	±20%	—	490-4831-ND	6.79	50.06	357.58	RDER72J474MUB1C13B
3	X7R	630	.22µF	±10%	—	490-4826-ND	3.80	27.98	199.83	RDER72J224K5B1C13B
	X7R	250	.47µF	±10%	—	490-4819-ND	3.75	27.64	197.40	RDER72E474K5B1C13B

✔ NEW!

Safety Recognized Ceramic Capacitors

Temperature Characteristics	Capacitance Change	Temperature Range
SL	350 ~ -1000ppm/°C	-20°C ~ 85°C
B	±10% Maximum	-25°C ~ 85°C
E	20, -55% Maximum	-25°C ~ 85°C
F	30, -80% Maximum	-25°C ~ 85°C

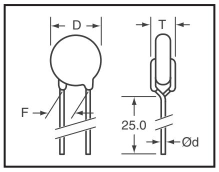

Features: • Operating temperature range guaranteed up to 125°C (UL: 85°C) • Rated voltage of 250V • Recognized by UL/CSA/BSI/SEMKO/SEV/VDE/FIMKO/NEMKO/DEMKO and DEMKO/NSW for the KH/KY series • Coated with flame retardant epoxy resin (conforming to UL 94V-0 standards)

Cap. (pF)	Cap. Tol.%	Temp. Char.	Dimensions (mm) D	ød	F	T	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
					KH Series						
					Basic Insulation / Class X1, Y2						
220	±10	B	8	0.6	7.5	7.0	490-4208-ND	.20	1.47	10.48	DE2B3KH221KA3B
330	±10	B	8	0.6	7.5	7.0	490-4209-ND	.20	1.48	10.55	DE2B3KH331KA3B
470	±10	B	8	0.6	7.5	7.0	490-4210-ND	.20	1.44	10.30	DE2B3KH471KA3B
680	±10	B	9	0.6	7.5	7.0	490-4211-ND	.21	1.56	11.18	DE2B3KH681KA3B
1,000	±20	E	8	0.6	7.5	7.0	490-4212-ND	.20	1.48	10.55	DE2E3KH102MA3B
1,500	±20	E	9	0.6	7.5	7.0	490-4213-ND	.22	1.62	11.58	DE2E3KH152MA3B
2,200	±20	E	10	0.6	7.5	7.0	490-4214-ND	.24	1.80	12.85	DE2E3KH222MA3B
3,300	±20	E	12	0.6	7.5	7.0	490-4215-ND	.31	2.28	16.28	DE2E3KH332MA3B
4,700	±20	E	13	0.6	7.5	7.0	490-4216-ND	.40	2.96	21.13	DE2E3KH472MA3B
10,000	±20	F	16	0.6	7.5	7.0	490-4217-ND	.48	3.54	25.25	DE2F3KH103MA3B
					KY Series						
					Basic Insulation / Class X1, Y2						
15	±5	SL	8	0.6	5.0	5.0	490-4218-ND	.20	1.48	10.55	DE21XKY150JA2BM01
22	±5	SL	8	0.6	5.0	5.0	490-4219-ND	.23	1.69	12.10	DE21XKY220JA2BM01
33	±5	SL	8	0.6	5.0	5.0	490-4220-ND	.20	1.48	10.55	DE21XKY330JA2BM01
47	±5	SL	8	0.6	5.0	5.0	490-4221-ND	.20	1.48	10.55	DE21XKY470JA2BM01
68	±5	SL	8	0.6	5.0	5.0	490-4222-ND	.20	1.48	10.55	DE21XKY680JA2BM01
100	±10	B	7	0.6	5.0	5.0	490-4223-ND	.18	1.36	9.73	DE2B3KY101KA2BM01
150	±10	B	7	0.6	5.0	5.0	490-4224-ND	.18	1.36	9.73	DE2B3KY151KA2BM01
220	±10	B	7	0.6	5.0	5.0	490-4225-ND	.18	1.36	9.73	DE2B3KY221KA2BM01
330	±10	B	7	0.6	5.0	5.0	490-4226-ND	.18	1.36	9.73	DE2B3KY331KA2BM01
470	±10	B	7	0.6	5.0	5.0	490-4227-ND	.18	1.36	9.73	DE2B3KY471KA2BM01
680	±10	B	8	0.6	5.0	5.0	490-4228-ND	.20	1.45	10.35	DE2B3KY681KA2BM01
1,000	±20	E	7	0.6	5.0	5.0	490-4229-ND	.18	1.36	9.73	DE2E3KY102MA2BM01
1,500	±20	E	7	0.6	5.0	5.0	490-4230-ND	.18	1.36	9.73	DE2E3KY152MA2BM01
2,200	±20	E	8	0.6	5.0	5.0	490-4231-ND	.20	1.48	10.60	DE2E3KY222MA2BM01
3,300	±20	E	9	0.6	5.0	5.0	490-4232-ND	.22	1.63	11.63	DE2E3KY332MA2BM01
4,700	±20	E	10	0.6	5.0	5.0	490-4233-ND	.25	1.87	13.33	DE2E3KY472MA2BM01
					KX Series						
					Reinforced Insulation / Class X1, Y1						
3,300	±20	E	12	0.6	10.0	8.0	490-4234-ND	.45	3.34	23.83	DE1E3KX332MA5BA01

High Voltage Ceramic Capacitors

DEA Series: Temperature compensating type ceramics realize low heat dissipation than DEH/DES series coated with flame retardant epoxy resin (equal to UL94V-0 standards)

Temperature Characteristics	Capacitance Change	Temperature Range
SL	350 ~ -1000ppm/°C	20°C ~ 85°C
B	±10% Maximum	-20°C ~ 85°C
E	20, -55% Maximum	-20°C ~ 85°C
F	30, -80% Maximum	-20°C ~ 85°C
R	15, -30% Maximum	85°C ~ 125°C

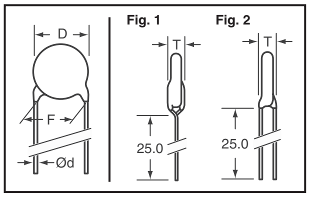

VDC (kV)	Cap. (pF)	Cap. Toler. %	Temp. Char.	Dimensions (mm)				Digi-Key Part No.	Pricing			Murata Part No.
				D	ød	F	T		1	10	100	
DEA Series 125°C Guaranteed/Class 1												
Fig. 1												
1	82	±5	SL	6	0.6	5.0	4.0	490-4166-ND	.16	1.19	8.50	DEA1X3A820JA2B
	100	±5	SL	6	0.6	5.0	4.0	490-4146-ND	.17	1.23	8.75	DEA1X3A101JA2B
	120	±5	SL	6	0.6	5.0	4.0	490-4148-ND	.17	1.26	9.00	DEA1X3A121JA2B
	150	±5	SL	7	0.6	5.0	4.0	490-4150-ND	.18	1.35	9.63	DEA1X3A151JA2B
	180	±5	SL	7	0.6	5.0	4.0	490-4152-ND	.18	1.35	9.63	DEA1X3A181JA2B
	220	±5	SL	8	0.6	5.0	4.0	490-4154-ND	.19	1.42	10.18	DEA1X3A221JA2B
	270	±5	SL	9	0.6	5.0	4.0	490-4156-ND	.20	1.49	10.68	DEA1X3A271JA2B
	330	±5	SL	10	0.6	5.0	4.0	490-4158-ND	.22	1.59	11.38	DEA1X3A331JA2B
	390	±5	SL	10	0.6	5.0	4.0	490-4160-ND	.22	1.64	11.73	DEA1X3A391JA2B
	470	±5	SL	11	0.6	5.0	4.0	490-4162-ND	.23	1.72	12.28	DEA1X3A471JA2B
	560	±5	SL	12	0.6	7.5	4.0	490-4164-ND	.27	2.01	14.33	DEA1X3A561JA3B
	10	±5	SL	4.5	0.5	5.0	4.0	490-4145-ND	.17	1.26	8.98	DEA1X3A100JC1B
	12	±5	SL	4.5	0.5	5.0	4.0	490-4147-ND	.17	1.26	8.98	DEA1X3A120JC1B
	15	±5	SL	4.5	0.5	5.0	4.0	490-4149-ND	.17	1.25	8.95	DEA1X3A150JC1B
	18	±5	SL	4.5	0.5	5.0	4.0	490-4151-ND	.17	1.24	8.85	DEA1X3A180JC1B
	22	±5	SL	4.5	0.5	5.0	4.0	490-4153-ND	.17	1.23	8.78	DEA1X3A220JC1B
	27	±5	SL	4.5	0.5	5.0	4.0	490-4155-ND	.17	1.23	8.78	DEA1X3A270JC1B
	33	±5	SL	4.5	0.5	5.0	4.0	490-4157-ND	.17	1.23	8.78	DEA1X3A330JC1B
	47	±5	SL	4.5	0.5	5.0	4.0	490-4161-ND	.17	1.22	8.73	DEA1X3A470JC1B
	56	±5	SL	5	0.5	5.0	4.0	490-4163-ND	.17	1.22	8.73	DEA1X3A560JC1B
	68	±5	SL	5	0.5	5.0	4.0	490-4165-ND	.17	1.24	8.85	DEA1X3A680JC1B
2	10	±5	SL	4.5	0.5	5.0	5.0	490-4167-ND	.19	1.38	9.85	DEA1X3D100JC1B
	12	±5	SL	4.5	0.5	5.0	5.0	490-4169-ND	.19	1.38	9.85	DEA1X3D120JC1B
	15	±5	SL	4.5	0.5	5.0	5.0	490-4171-ND	.18	1.35	9.63	DEA1X3D150JC1B
	18	±5	SL	4.5	0.5	5.0	5.0	490-4173-ND	.17	1.28	9.13	DEA1X3D180JC1B
	22	±5	SL	4.5	0.5	5.0	5.0	490-4175-ND	.17	1.26	8.98	DEA1X3D220JC1B
	27	±5	SL	4.5	0.5	5.0	5.0	490-4177-ND	.17	1.25	8.95	DEA1X3D270JC1B
	33	±5	SL	4.5	0.5	5.0	5.0	490-4179-ND	.16	1.20	8.60	DEA1X3D330JC1B
	47	±5	SL	6	0.6	5.0	5.0	490-4183-ND	.17	1.23	8.75	DEA1X3D470JA2B
	56	±5	SL	6	0.6	5.0	5.0	490-4185-ND	.17	1.25	8.95	DEA1X3D560JA2B
	68	±5	SL	6	0.6	5.0	5.0	490-4187-ND	.18	1.32	9.40	DEA1X3D680JA2B
	82	±5	SL	7	0.6	5.0	5.0	490-4188-ND	.19	1.37	9.78	DEA1X3D820JA2B
	100	±5	SL	7	0.6	5.0	5.0	490-4168-ND	.19	1.37	9.78	DEA1X3D101JA2B
	120	±5	SL	8	0.6	5.0	5.0	490-4170-ND	.20	1.44	10.30	DEA1X3D121JA2B
	150	±5	SL	8	0.6	5.0	5.0	490-4172-ND	.20	1.50	10.73	DEA1X3D151JA2B
	180	±5	SL	9	0.6	5.0	5.0	490-4174-ND	.21	1.56	11.18	DEA1X3D181JA2B
	220	±5	SL	10	0.6	5.0	5.0	490-4176-ND	.24	1.74	12.40	DEA1X3D221JA2B
	270	±5	SL	11	0.6	5.0	5.0	490-4178-ND	.24	1.79	12.80	DEA1X3D271JA2B
	330	±5	SL	12	0.6	7.5	5.0	490-4180-ND	.27	2.00	14.28	DEA1X3D331JA2B
	390	±5	SL	13	0.6	7.5	5.0	490-4182-ND	.31	2.32	16.55	DEA1X3D391JA3B
	470	±5	SL	14	0.6	7.5	5.0	490-4184-ND	.36	2.67	19.05	DEA1X3D471JA3B
	560	±5	SL	15	0.6	7.5	5.0	490-4186-ND	.41	3.05	21.78	DEA1X3D561JA3B
3.15	47	±5	SL	7	0.6	7.5	6.0	490-4205-ND	.20	1.46	10.45	DEA1X3F470JA3B
	68	±5	SL	8	0.6	7.5	6.0	490-4206-ND	.21	1.51	10.80	DEA1X3F680JA3B
	82	±5	SL	8	0.6	7.5	6.0	490-4207-ND	.21	1.58	11.25	DEA1X3F820JA3B
	100	±5	SL	9	0.6	7.5	6.0	490-4190-ND	.21	1.58	11.25	DEA1X3F101JA3B
	120	±5	SL	10	0.6	7.5	6.0	490-4192-ND	.23	1.66	11.85	DEA1X3F121JA3B
	150	±5	SL	11	0.6	7.5	6.0	490-4194-ND	.26	1.91	13.65	DEA1X3F151JA3B
	180	±5	SL	11	0.6	7.5	6.0	490-4196-ND	.28	2.03	14.48	DEA1X3F181JA3B
	220	±5	SL	12	0.6	7.5	6.0	490-4198-ND	.34	2.49	17.78	DEA1X3F221JA3B
	270	±5	SL	14	0.6	7.5	6.0	490-4200-ND	.40	2.91	20.80	DEA1X3F271JA3B
	330	±5	SL	15	0.6	7.5	6.0	490-4202-ND	.42	3.07	21.90	DEA1X3F331JA3B
	390	±5	SL	16	0.6	7.5	6.0	490-4204-ND	.51	3.75	26.78	DEA1X3F391JA3B
Fig. 2												
1	39	±5	SL	4.5	0.5	5.0	4.0	490-4159-ND	.16	1.17	8.35	DEA1X3A390JC1B
2	39	±5	SL	5	0.5	5.0	5.0	490-4181-ND	.16	1.20	8.60	DEA1X3D390JC1B
3.15	10	±5	SL	5	0.5	7.5	6.0	490-4189-ND	.19	1.39	9.95	DEA1X3F100JCDB
	12	±5	SL	5	0.5	7.5	6.0	490-4191-ND	.19	1.41	10.10	DEA1X3F120JCDB
	15	±5	SL	5	0.5	7.5	6.0	490-4193-ND	.17	1.27	9.05	DEA1X3F150JCDB
	18	±5	SL	5	0.5	7.5	6.0	490-4195-ND	.19	1.38	9.85	DEA1X3F180JCDB
	22	±5	SL	5	0.5	7.5	6.0	490-4197-ND	.18	1.32	9.45	DEA1X3F220JCDB
	27	±5	SL	6	0.6	7.5	6.0	490-4199-ND	.17	1.23	8.80	DEA1X3F270JC3B
	33	±5	SL	6	0.6	7.5	6.0	490-4201-ND	.18	1.32	9.45	DEA1X3F330JC3B
	39	±5	SL	6	0.6	7.5	6.0	490-4203-ND	.18	1.30	9.28	DEA1X3F390JC3B
DEB Series Class 2												
Fig. 1												
1	680	±10	B	6	0.6	5.0	4.0	490-4267-ND	.16	1.21	8.63	DEBB33A681KA2B
	1,000	±10	B	6	0.6	5.0	4.0	490-4258-ND	.17	1.25	8.93	DEBB33A102KA2B
	1,500	±10	B	8	0.6	5.0	4.0	490-4260-ND	.18	1.36	9.73	DEBB33A152KA2B
	2,200	±10	B	9	0.6	5.0	4.0	490-4262-ND	.21	1.56	11.13	DEBB33A222KA2B
	2,200	80, -20	F	6	0.6	5.0	4.0	490-4251-ND	.17	1.25	8.93	DEBF33A222ZA2B
	2,200	80, -20	E	7	0.6	5.0	4.0	490-4241-ND	.17	1.27	9.08	DEBE33A222ZA2B
	3,300	±10	B	10	0.6	5.0	4.0	490-4264-ND	.23	1.72	12.28	DEBB33A332KA2B
	4,700	±10	B	12	0.6	7.5	4.0	490-4266-ND	.26	1.90	13.58	DEBB33A472KA3B
	4,700	80, -20	F	7	0.6	5.0	4.0	490-4252-ND	.20	1.46	10.40	DEBF33A472ZA2B
	4,700	80, -20	E	9	0.6	5.0	4.0	490-4242-ND	.21	1.55	11.05	DEBE33A472ZA2B
	6,800	±10	B	15	0.6	7.5	4.0	490-4268-ND	.40	2.95	21.05	DEBB33A682KA3B
1	10,000	80, -20	F	10	0.6	5.0	4.0	490-4250-ND	.25	1.83	13.05	DEBF33A103ZA2B
	10,000	80, -20	E	13	0.6	7.5	4.0	490-4240-ND	.33	2.46	17.58	DEBE33A103ZA3B
2	470	±10	B	6	0.6	5.0	5.0	490-4277-ND	.19	1.41	10.10	DEBB33D471KA2B
	680	±10	B	7	0.6	5.0	5.0	490-4279-ND	.19	1.41	10.10	DEBB33D681KA2B
	1,000	±10	B	8	0.6	5.0	5.0	490-4270-ND	.22	1.64	11.73	DEBB33D102KA2B
	1,000	80, -20	E	6	0.6	5.0	5.0	490-4243-ND	.18	1.32	9.45	DEBE33D102ZA2B
	1,500	±10	B	9	0.6	5.0	5.0	490-4272-ND	.24	1.74	12.40	DEBB33D152KA2B
	2,200	±10	B	10	0.6	5.0	5.0	490-4274-ND	.29	2.16	15.43	DEBB33D222KA2B
	2,200	80, -20	F	7	0.6	5.0	5.0	490-4255-ND	.24	1.74	12.40	DEBF33D222ZA2B
	2,200	80, -20	E	8	0.6	5.0	5.0	490-4245-ND	.21	1.51	10.80	DEBE33D222ZA2B
	3,300	±10	B	12	0.6	7.5	5.0	490-4276-ND	.41	2.99	21.38	DEBB33D332KA3B
	4,700	±10	B	15	0.6	7.5	5.0	490-4278-ND	.47	3.43	24.53	DEBB33D472KA3B
	4,700	80, -20	F	9	0.6	5.0	5.0	490-4256-ND	.29	2.12	15.18	DEBF33D472ZA2B
	4,700	80, -20	E	11	0.6	5.0	5.0	490-4246-ND	.28	2.10	14.98	DEBE33D472ZA2B
	10,000	80, -20	F	12	0.6	7.5	5.0	490-4254-ND	.43	3.19	22.80	DEBF33D103ZA3B
	10,000	80, -20	E	16	0.6	7.5	5.0	490-4244-ND	.50	3.67	26.20	DEBE33D103ZA3B
3.15	470	±10	B	7	0.6	7.5	6.0	490-4288-ND	.22	1.65	11.75	DEBB33F471KC3B
	680	±10	B	8	0.6	7.5	6.0	490-4289-ND	.24	1.79	12.80	DEBB33F681KA3B
	1,000	±10	B	9	0.6	7.5	6.0	490-4281-ND	.29	2.11	15.05	DEBB33F102KA3B
	1,500	±10	B	11	0.6	7.5	6.0	490-4283-ND	.35	2.60	18.60	DEBB33F152KA3B
	2,200	80, -20	E	10	0.6	7.5	6.0	490-4248-ND	.28	2.05	14.68	DEBE33F222ZA3B
	2,200	±10	B	13	0.6	7.5	6.0	490-4285-ND	.52	3.80	27.18	DEBB33F222KA3B
	3,300	±10	B	15	0.6	7.5	6.0	490-4287-ND	.66	4.88	34.85	DEBB33F332KA3B
	4,700	80, -20	E	13	0.6	7.5	6.0	490-4249-ND	.47	3.44	24.60	DEBE33F472ZA3B
Fig. 2												
1	100	±10	B	4.5	0.5	5.0	4.0	490-4257-ND	.17	1.28	9.18	DEBB33A101KC1B
	150	±10	B	4.5	0.5	5.0	4.0	490-4259-ND	.18	1.35	9.68	DEBB33A151KC1B
	220	±10	B	4.5	0.5	5.0	4.0	490-4261-ND	.17	1.26	8.98	DEBB33A221KC1B
	330	±10	B	4.5	0.5	5.0	4.0	490-4263-ND	.18	1.30	9.25	DEBB33A331KC1B
	470	±10	B	5	0.5	5.0	4.0	490-4265-ND	.17	1.29	9.20	DEBB33A471KC1B
	1,000	80, -20	E	5	0.5	5.0	4.0	490-4239-ND	.17	1.26	9.00	DEBE33A102ZC1B
2	100	±10	B	4.5	0.5	5.0	5.0	490-4269-ND	.19	1.41	10.10	DEBB33D101KC1B
	150	±10	B	4.5	0.5	5.0	5.0	490-4271-ND	.20	1.46	10.40	DEBB33D151KC1B
	220	±10	B	4.5	0.5	5.0	5.0	490-4273-ND	.19	1.42	10.18	DEBB33D221KC1B
	330	±10	B	5	0.5	5.0	5.0	490-4275-ND	.19	1.38	9.85	DEBB33D331KC1B
	1,000	80, -20	F	5	0.5	5.0	5.0	490-4253-ND	.19	1.40	10.03	DEBF33D102ZC1B
3.15	100	±10	B	5	0.5	7.5	6.0	490-4280-ND	.20	1.47	10.48	DEBB33F101KCDB
	150	±10	B	5	0.5	7.5	6.0	490-4282-ND	.20	1.45	10.35	DEBB33F151KCDB
	220	±10	B	5	0.5	7.5	6.0	490-4284-ND	.19	1.39	9.90	DEBB33F221KCDB
	330	±10	B	6	0.6	7.5	6.0	490-4286-ND	.20	1.50	10.73	DEBB33F331KC3B
	1,000	80, -20	E	7	0.6	7.5	6.0	490-4247-ND	.21	1.52	10.88	DEBE33F102ZC3B
DEC Series Class 1, 2												
Fig. 1												
6.3	100	±10	B	9	0.6	10.0	7.0	490-4093-ND	.39	2.88	20.55	DECB33J101KC4B
	150	±10	B	9	0.6	10.0	7.0	490-4095-ND	.39	2.91	20.78	DECB33J151KC4B
	220	±10	B	9	0.6	10.0	7.0	490-4096-ND	.40	2.94	20.98	DECB33J221KC4B
	330	±10	B	9	0.6	10.0	7.0	490-4097-ND	.38	2.82	20.15	DECB33J331KC4B
	470	±10	B	10	0.6	10.0	7.0	490-4098-ND	.38	2.80	20.00	DECB33J471KC4B
	680	±10	B	11	0.6	10.0	7.0	490-4099-ND	.50	3.66	26.15	DECB33J681KC4B
	1,000	±10	B	13	0.6	10.0	7.0	490-4094-ND	.56	4.14	29.60	DECB33J102KC4B
	1,000	20, -55	E	11	0.6	10.0	7.0	490-4100-ND	.40	2.94	20.98	DECE33J102ZC4B
	2,200	20, -55	E	15	0.6	10.0	7.0	490-4101-ND	.70	5.13	36.63	DECE33J222ZC4B
DEH Series 125°C Guaranteed / Low Dissipation Factor												
Fig. 1												
1	220	±10	R	7	0.6	5.0	4.5	490-4104-ND	.21	1.52	10.88	DEHR33A221KA2B
	330	±10	R	7	0.6	5.0	4.5	490-4106-ND	.21	1.52	10.88	DEHR33A331KA2B
	470	±10	R	7	0.6	5.0	4.5	490-4108-ND	.21	1.52	10.88	DEHR33A471KA2B
	680	±10	R	8	0.6	5.0	4.5	490-4110-ND	.23	1.70	12.15	DEHR33A681KA2B
	1,000	±10	R	9	0.6	5.0	4.5	490-4102-ND	.24	1.75	12.48	DEHR33A102KA2B
	1,500	±10	R	11	0.6	5.0	4.5	490-4103-ND	.26	1.95	13.90	DEHR33A152KA2B
	2,200	±10	R	13	0.6	7.5	4.5	490-4105-ND	.36	2.68	19.18	DEHR33A222KA3B
	3,300	±10	R	15	0.6	7.5	4.5	490-4107-ND	.44	3.24	23.18	DEHR33A332KA3B
	4,700	±10	R	17	0.6	7.5	4.5	490-4109-ND	.52	3.85	27.48	DEHR33A472KA3B
2	330	±10	R	8	0.6	7.5	5.0	490-4119-ND	.23	1.68	12.03	DEHR33D331KA3B
	390	±10	R	8	0.6	7.5	5.0	490-4121-ND	.23	1.68	12.03	DEHR33D391KA3B
	470	±10	R	9	0.6	7.5	5.0	490-4123-ND	.23	1.69	12.08	DEHR33D471KA3B
	560	±10	R	9	0.6	7.5	5.0	490-4125-ND	.26	1.92	13.70	DEHR33D561KA3B
	680	±10	R	10	0.6	7.5	5.0	490-4126-ND	.26	1.90	13.58	DEHR33D681KA3B
	820	±10	R	11	0.6	7.5	5.0	490-4127-ND	.28	2.04	14.55	DEHR33D821KA3B
	1,000	±10	R	12	0.6	7.5	5.0	490-4111-ND	.31	2.26	16.15	DEHR33D102KA3B
	1,200	±10	R	12	0.6	7.5	5.0	490-4112-ND	.33	2.44	17.45	DEHR33D122KA3B
	1,500	±10	R	12	0.6	7.5	5.0	490-4113-ND	.33	2.44	17.45	DEHR33D152KA3B
	1,800	±10	R	14	0.6	7.5	5.0	490-4114-ND	.47	3.49	24.93	DEHR33D182KA3B
	2,200	±10	R	15	0.6	7.5	5.0	490-4116-ND	.54	3.99	28.48	DEHR33D222KA3B
	2,700	±10	R	17	0.6	7.5	5.0	490-4118-ND	.60	4.42	31.55	DEHR33D272KA3B
	3,300	±10	R	19	0.6	10.0	5.0	490-4120-ND	.72	5.32	38.00	DEHR33D332KA4B
	3,900	±10	R	20	0.6	10.0	5.0	490-4122-ND	.94	6.92	49.45	DEHR33D392KA4B
	4,700	±10	R	21	0.6	10.0	5.0	490-4124-ND	1.06	7.78	55.58	DEHR33D472KA4B
3.15	330	±10	R	8	0.6	7.5	6.0	490-4138-ND	.25	1.86	13.30	DEHR33F331KA3B
	390	±10	R	9	0.6	7.5	6.0	490-4139-ND	.27	1.96	13.98	DEHR33F391KA3B
	470	±10	R	10	0.6	7.5	6.0	490-4140-ND	.29	2.17	15.50	DEHR33F471KA3B
	560	±10	R	10	0.6	7.5	6.0	490-4141-ND	.33	2.43	17.33	DEHR33F561KA3B
	680	±10	R	11	0.6	7.5	6.0	490-4142-ND	.34	2.49	17.78	DEHR33F681KA3B
	820	±10	R	12	0.6	7.5	6.0	490-4143-ND	.43	3.14	22.40	DEHR33F821KA3B
	1,000	±10	R	13	0.6	7.5	6.0	490-4128-ND	.49	3.61	25.75	DEHR33F102KA3B
	1,200	±10	R	14	0.6	7.5	6.0	490-4129-ND	.64	4.69	33.50	DEHR33F122KA3B
	1,500	±10	R	15	0.6	7.5	6.0	490-4131-ND	.66	4.88	34.85	DEHR33F152KA3B
	1,800	±10	R	16	0.6	7.5	6.0	490-4133-ND	.78	5.78	41.28	DEHR33F182KA3B
	2,200	±10	R	17	0.6	7.5	6.0	490-4135-ND	.80	5.89	42.10	DEHR33F222KA3B
	2,700	±10	R	19	0.6	10.0	6.0	490-4137-ND	1.01	7.44	53.13	DEHR33F272KA4B
Fig. 2												
2	220	±10	R	7	6.0	7.5	5.0	490-4115-ND	.22	1.62	11.58	DEHR33D221KC3B
	270	±10	R	7	6.0	7.5	5.0	490-4117-ND	.22	1.62	11.58	DEHR33D271KC3B
3.15	150	±10	R	7	6.0	7.5	6.0	490-4130-ND	.24	1.76	12.55	DEHR33F151KC3B
	180	±10	R	7	6.0	7.5	6.0	490-4132-ND	.25	1.86	13.25	DEHR33F181KC3B
	220	±10	R	7	6.0	7.5	6.0	490-4134-ND	.24	1.76	12.55	DEHR33F221KC3B
	270	±10	R	7	6.0	7.5	6.0	490-4136-ND	.25	1.84	13.13	DEHR33F271KC3B

Monolithic Ceramic Chip Capacitors – GJM Series

Size Code	Dimensions – mm			
	L	W	e	g (min.)
0201	0.6±-0.03	0.3±-0.03	0.1 ~ 0.2	0.2
0402	1.0±-0.05	0.5±-0.05	0.15 ~ 0.3	0.4

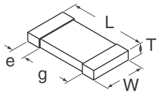

The Murata GJM Series is a high Q, ultra small capacitor series for high frequency applications in the 500MHz ~ 10GHz range, suitable for VCO and PA Module applications. The GJM Series of capacitors are made with copper electrodes for low ESR and low power consumption due to the high Q (low loss) performance. This series is offered in EIA sizes 0201 and 0402.

Features: • Better Q and low ESR at VHF, UHF and microwave frequencies • Copper inner electrode • Low power consumption, yield ratio improvement due to the better Q or lower ESR • VCO or PA module applications **Operating Temperature Range:** • C0G (NP0): -55°C ~ 125°C

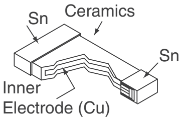

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0201	C0G (NP0)	25	.75pF	±.25pF	0.3	490-3052-1-ND	.91	5.40	15.56	490-3052-2-ND	15,000	15.00/M	GJM0335C1ER75CB01D
		25	1.0pF	±.25pF	0.3	490-3053-1-ND	.87	5.14	14.81	490-3053-2-ND	15,000	14.00/M	GJM0335C1E1R0CB01D
		25	1.1pF	±.25pF	0.3	490-3054-1-ND	.87	5.14	14.81	490-3054-2-ND	15,000	14.00/M	GJM0335C1E1R1CB01D
		25	1.2pF	±.25pF	0.3	490-3055-1-ND	.87	5.14	14.81	490-3055-2-ND	15,000	14.00/M	GJM0335C1E1R2CB01D
		25	1.3pF	±.25pF	0.3	490-3056-1-ND	.87	5.14	14.81	490-3056-2-ND	15,000	14.00/M	GJM0335C1E1R3CB01D
		25	1.5pF	±.25pF	0.3	490-3057-1-ND	.87	5.14	14.81	490-3057-2-ND	15,000	14.00/M	GJM0335C1E1R5CB01D
		25	1.6pF	±.25pF	0.3	490-3058-1-ND	.87	5.14	14.81	490-3058-2-ND	15,000	14.00/M	GJM0335C1E1R6CB01D
		25	1.8pF	±.25pF	0.3	490-3059-1-ND	.87	5.14	14.81	490-3059-2-ND	15,000	14.00/M	GJM0335C1E1R8CB01D
		25	2.0pF	±.25pF	0.3	490-3060-1-ND	.87	5.14	14.81	490-3060-2-ND	15,000	14.00/M	GJM0335C1E2R0CB01D
		25	2.2pF	±.25pF	0.3	490-3061-1-ND	.87	5.14	14.81	490-3061-2-ND	15,000	14.00/M	GJM0335C1E2R2CB01D
		25	2.4pF	±.25pF	0.3	490-3062-1-ND	.87	5.14	14.81	490-3062-2-ND	15,000	14.00/M	GJM0335C1E2R4CB01D
		25	2.7pF	±.25pF	0.3	490-3063-1-ND	.87	5.14	14.81	490-3063-2-ND	15,000	14.00/M	GJM0335C1E2R7CB01D
		25	3.0pF	±.25pF	0.3	490-3064-1-ND	.87	5.14	14.81	490-3064-2-ND	15,000	14.00/M	GJM0335C1E3R0CB01D
		25	3.3pF	±.25pF	0.3	490-3065-1-ND	.87	5.14	14.81	490-3065-2-ND	15,000	14.00/M	GJM0335C1E3R3CB01D
		25	3.6pF	±.25pF	0.3	490-3066-1-ND	.87	5.14	14.81	490-3066-2-ND	15,000	14.00/M	GJM0335C1E3R6CB01D
		25	3.9pF	±.25pF	0.3	490-3067-1-ND	.87	5.14	14.81	490-3067-2-ND	15,000	14.00/M	GJM0335C1E3R9CB01D
		25	4.0pF	±.25pF	0.3	490-3068-1-ND	.87	5.14	14.81	490-3068-2-ND	15,000	14.00/M	GJM0335C1E4R0CB01D
		25	4.3pF	±.25pF	0.3	490-3069-1-ND	.87	5.14	14.81	490-3069-2-ND	15,000	14.00/M	GJM0335C1E4R3CB01D
		25	4.7pF	±.25pF	0.3	490-3070-1-ND	.87	5.14	14.81	490-3070-2-ND	15,000	14.00/M	GJM0335C1E4R7CB01D
		25	5.0pF	±.25pF	0.3	490-3071-1-ND	.87	5.14	14.81	490-3071-2-ND	15,000	14.00/M	GJM0335C1E5R0CB01D
		25	5.1pF	±.25pF	0.3	490-3072-1-ND	.87	5.14	14.81	490-3072-2-ND	15,000	14.00/M	GJM0335C1E5R1CB01D
		25	5.6pF	±.25pF	0.3	490-3073-1-ND	.87	5.14	14.81	490-3073-2-ND	15,000	14.00/M	GJM0335C1E5R6CB01D
		25	6.0pF	±.25pF	0.3	490-3074-1-ND	.87	5.14	14.81	490-3074-2-ND	15,000	14.00/M	GJM0335C1E6R0CB01D
		25	6.8pF	±.25pF	0.3	490-3076-1-ND	.87	5.14	14.81	490-3076-2-ND	15,000	14.00/M	GJM0335C1E6R8CB01D
0402	C0G (NP0)	50	1.0pF	±.25pF	0.5	490-3083-1-ND	.69	4.10	11.81	490-3083-2-ND	10,000	11.00/M	GJM1555C1H1R0CB01D
		50	1.1pF	±.25pF	0.5	490-3084-1-ND	.62	3.64	10.50	490-3084-2-ND	10,000	10.00/M	GJM1555C1H1R1CB01D
		50	1.2pF	±.25pF	0.5	490-3085-1-ND	.62	3.64	10.50	490-3085-2-ND	10,000	10.00/M	GJM1555C1H1R2CB01D
		50	1.3pF	±.25pF	0.5	490-3086-1-ND	.62	3.64	10.50	490-3086-2-ND	10,000	10.00/M	GJM1555C1H1R3CB01D
		50	1.5pF	±.25pF	0.5	490-3087-1-ND	.69	4.10	11.81	490-3087-2-ND	10,000	11.00/M	GJM1555C1H1R5CB01D
		50	1.6pF	±.25pF	0.5	490-3088-1-ND	.62	3.64	10.50	490-3088-2-ND	10,000	10.00/M	GJM1555C1H1R6CB01D
		50	1.8pF	±.25pF	0.5	490-3089-1-ND	.69	4.10	11.81	490-3089-2-ND	10,000	11.00/M	GJM1555C1H1R8CB01D
		50	2.0pF	±.25pF	0.5	490-3090-1-ND	.69	4.10	11.81	490-3090-2-ND	10,000	11.00/M	GJM1555C1H2R0CB01D
		50	2.2pF	±.25pF	0.5	490-3091-1-ND	.62	3.64	10.50	490-3091-2-ND	10,000	10.00/M	GJM1555C1H2R2CB01D
		50	2.4pF	±.25pF	0.5	490-3092-1-ND	.69	4.10	11.81	490-3092-2-ND	10,000	11.00/M	GJM1555C1H2R4CB01D
		50	2.7pF	±.25pF	0.5	490-3093-1-ND	.62	3.64	10.50	490-3093-2-ND	10,000	10.00/M	GJM1555C1H2R7CB01D
		50	3.0pF	±.25pF	0.5	490-3094-1-ND	.62	3.64	10.50	490-3094-2-ND	10,000	10.00/M	GJM1555C1H3R0CB01D
		50	3.3pF	±.25pF	0.5	490-3095-1-ND	.58	3.45	9.94	490-3095-2-ND	10,000	10.00/M	GJM1555C1H3R3CB01D
		50	3.6pF	±.25pF	0.5	490-3096-1-ND	.69	4.10	11.81	490-3096-2-ND	10,000	11.00/M	GJM1555C1H3R6CB01D
		50	3.9pF	±.25pF	0.5	490-3097-1-ND	.58	3.45	9.94	490-3097-2-ND	10,000	10.00/M	GJM1555C1H3R9CB01D
		50	4.0pF	±.25pF	0.5	490-3098-1-ND	.62	3.64	10.50	490-3098-2-ND	10,000	10.00/M	GJM1555C1H4R0CB01D
		50	4.3pF	±.25pF	0.5	490-3099-1-ND	.62	3.64	10.50	490-3099-2-ND	10,000	10.00/M	GJM1555C1H4R3CB01D
		50	4.7pF	±.25pF	0.5	490-3100-1-ND	.69	4.10	11.81	490-3100-2-ND	10,000	11.00/M	GJM1555C1H4R7CB01D
		50	5.0pF	±.25pF	0.5	490-3101-1-ND	.62	3.64	10.50	490-3101-2-ND	10,000	10.00/M	GJM1555C1H5R0CB01D
		50	5.1pF	±.25pF	0.5	490-3102-1-ND	.69	4.10	11.81	490-3102-2-ND	10,000	11.00/M	GJM1555C1H5R1CB01D
		50	5.6pF	±.25pF	0.5	490-3103-1-ND	.69	4.10	11.81	490-3103-2-ND	10,000	11.00/M	GJM1555C1H5R6CB01D
		50	6.0pF	±.25pF	0.5	490-3104-1-ND	.69	4.10	11.81	490-3104-2-ND	10,000	11.00/M	GJM1555C1H6R0CB01D
		50	6.2pF	±.25pF	0.5	490-3105-1-ND	.69	4.10	11.81	490-3105-2-ND	10,000	11.00/M	GJM1555C1H6R2CB01D
		50	6.8pF	±.25pF	0.5	490-3106-1-ND	.69	4.10	11.81	490-3106-2-ND	10,000	11.00/M	GJM1555C1H6R8CB01D
		50	7.0pF	±.25pF	0.5	490-3107-1-ND	.69	4.10	11.81	490-3107-2-ND	10,000	11.00/M	GJM1555C1H7R0CB01D
		50	7.5pF	±.25pF	0.5	490-3108-1-ND	.69	4.10	11.81	490-3108-2-ND	10,000	11.00/M	GJM1555C1H7R5CB01D
		50	9.0pF	±.25pF	0.5	490-3111-1-ND	.69	4.10	11.81	490-3111-2-ND	10,000	11.00/M	GJM1555C1H9R0CB01D
		50	9.1pF	±.25pF	0.5	490-3112-1-ND	.69	4.10	11.81	490-3112-2-ND	10,000	11.00/M	GJM1555C1H9R1CB01D
		50	12pF	±5%	0.5	490-3115-1-ND	.58	3.45	9.94	490-3115-2-ND	10,000	10.00/M	GJM1555C1H120JB01D
		50	15pF	±5%	0.5	490-3117-1-ND	.58	3.45	9.94	490-3117-2-ND	10,000	10.00/M	GJM1555C1H150JB01D
		50	18pF	±5%	0.5	490-3119-1-ND	.62	3.64	10.50	490-3119-2-ND	10,000	10.00/M	GJM1555C1H180JB01D

Multilayer Ceramic Chip Capacitor Arrays – GNM Series

Murata's capacitor array offering (GNM Series) includes the following benefits: • Placement cost savings (one placement cycle instead of four or two) • High density mounting due to real estate savings • Capacitor arrays offered in two or four capacitor components

Features: • High density mounting due to mounting space saving • Mounting cost saving
Applications: • General electronic equipment • Cellular phones, pagers, camcorders, personal computers, LCD
Operating Temperature Range: • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Size Code	Dimensions – mm		
	L	W	P
0504	1.37±0.15	1.0±0.15	0.64±0.05
0805	2.0±0.15	1.250±0.15	1.0±0.1 (2-element) 0.5±0.05 (4-element)
1206	3.2±0.15	1.6±0.15	0.8±0.1

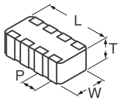

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
						2–Elements							
0504	X7R	25	2200pF	±20%	0.6	490-3399-1-ND	.61	5.25	21.88	490-3399-2-ND	4,000	25.00/M	GNM1M2R71E222MA01D
	X7R	25	4700pF	±20%	0.6	490-3400-1-ND	.61	5.25	21.88	490-3400-2-ND	4,000	25.00/M	GNM1M2R71E472MA01D
	X7R	25	10000pF	±20%	0.6	490-3401-1-ND	.58	4.98	20.75	490-3401-2-ND	4,000	23.00/M	GNM1M2R71E103MA01D
	X7R	16	22000pF	±20%	0.6	490-3402-1-ND	.62	5.28	22.00	490-3402-2-ND	4,000	25.00/M	GNM1M2R71C223MA01D
	X7R	16	47000pF	±20%	0.6	490-3403-1-ND	.65	5.58	23.25	490-3403-2-ND	4,000	26.00/M	GNM1M2R71C473MA01D
	X5R	10	.1µF	±20%	0.6	490-3404-1-ND	.64	5.49	22.88	490-3404-2-ND	4,000	26.00/M	GNM1M2R61A104MA01D
	X5R	10	1.0µF	±20%	0.8	490-3405-1-ND	.66	5.67	23.63	490-3405-2-ND	4,000	26.00/M	GNM1M2R61A105ME14D
	X5R	6.3	1.0µF	±20%	0.8	490-3406-1-ND	.66	5.67	23.63	490-3406-2-ND	4,000	26.00/M	GNM1M2R60J105ME12D
0805	X5R	16	1.0µF	±20%	0.85	490-3414-1-ND	1.14	9.75	40.63	490-3414-2-ND	4,000	46.00/M	GNM212R61C105MA16D
	X5R	10	1.0µF	±20%	0.85	490-3413-1-ND	1.07	9.21	38.38	490-3413-2-ND	4,000	43.00/M	GNM212R61A105MA13D
						4–Elements							
0805	X7R	50	1000pF	±20%	0.6	490-3407-1-ND	1.01	8.67	36.13	490-3407-2-ND	4,000	40.00/M	GNM214R71H102MA01D
	X7R	25	2200pF	±20%	0.6	490-3408-1-ND	1.01	8.67	36.13	490-3408-2-ND	4,000	40.00/M	GNM214R71E222MA01D
	X7R	25	4700pF	±20%	0.6	490-3409-1-ND	1.01	8.67	36.13	490-3409-2-ND	4,000	40.00/M	GNM214R71E472MA01D
	X7R	25	10000pF	±20%	0.6	490-3410-1-ND	1.01	8.67	36.13	490-3410-2-ND	4,000	40.00/M	GNM214R71E103MA01D
	X7R	16	22000pF	±20%	0.85	490-3411-1-ND	1.01	8.67	36.13	490-3411-2-ND	4,000	40.00/M	GNM214R71C223MA01D
	X7R	16	47000pF	±20%	0.85	490-3412-1-ND	1.01	8.67	36.13	490-3412-2-ND	4,000	40.00/M	GNM214R71C473MA01D
1206	X7R	16	47000pF	±20%	1.0	490-3443-1-ND	2.16	18.51	77.13	490-3443-2-ND	3,000	86.00/M	GNM314R71C473MA01L
	X7R	6.3	1.0µF	±20%	1.15	490-3446-1-ND	3.35	28.71	119.63	490-3446-2-ND	3,000	134.00/M	GNM314R70J105MA01L

Multilayer Ceramic Chip Capacitors

GRM Series:

The Murata GRM series is a complete line of ceramic chip capacitors with a wide range of voltages and sizes. These capacitors have temperature characteristics ranging from C0G to Z5U. GRM series is offered with a Nickel (Ni) barrier termination plated with Tin (Sn), highly resistant to migration. Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.

GRM Hi-Cap Series:

The Murata Hi-Cap, Ta replacement product lineup is available with capacitance of 1µF and larger, in voltages of 6.3V ~ 50V. Why use ceramic chips over Ta and Al capacitors? Ceramic chips offer better reliability, electrical performance, no polarity, and allow design engineers to downsize designs with various package options. This line of high volumetric multilayer capacitance ceramic chip capacitors (MLCC) has excellent high frequency noise absorption performance compared to Ta and Al caps. For bypass/decoupling applications, MLCC is equivalent to 1/2 to 1/5 the capacitance value of a Ta capacitor because impedance (ESR) of MLCC is lower at higher frequencies (above 100kHz) Consider Murata Hi-Cap as your Ta capacitor replacement.

Operating Temperature Range:

• C0G (NP0): -55°C ~ 125°C • U2J: 25°C ~ 85°C • X7R: -55°C ~ 125°C • X6S: -55°C ~ 105°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • Z5U: 10°C ~ 85°C

Size Code	Dimensions - mm L	W	e
01005	0.4	0.2	0.07 ~ 0.14
0201	0.6	0.3	0.1 ~ 0.2
0402	1	0.5	0.15 ~ 0.35
0603	1.6	0.8	0.2 ~ 0.5
0805	2	1.25	0.2 ~ 0.7
1206	3.2	1.6	0.3 ~ 0.8
1210	3.2	2.5	0.3
1808	4.5	2	0.3
1812	4.5	3.2	0.3
2220	5.7	5	0.3

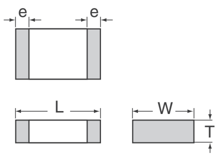

Size Code	Type	WV DC	Capac-itance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
01005	C0G (NP0)	16	7.5pF	±0.5pF	0.2	490-4502-1-ND	2.68	15.86	45.75	490-4502-2-ND	20,000	44.00/M	GRM0225C1C7R5DD05D
	C0G (NP0)	16	8pF	±0.5pF	0.2	490-4503-1-ND	2.54	15.02	43.31	490-4503-2-ND	20,000	42.00/M	GRM0225C1C8R0DD05D
	C0G (NP0)	16	8.2pF	±0.5pF	0.2	490-4504-1-ND	2.54	15.02	43.31	490-4504-2-ND	20,000	42.00/M	GRM0225C1C8R2DD05D
	C0G (NP0)	16	9pF	±0.5pF	0.2	490-4505-1-ND	2.54	15.02	43.31	490-4505-2-ND	20,000	42.00/M	GRM0225C1C9R0DD05D
	C0G (NP0)	16	9.1pF	±0.5pF	0.2	490-4506-1-ND	2.68	15.86	45.75	490-4506-2-ND	20,000	44.00/M	GRM0225C1C9R1DD05D
	C0G (NP0)	16	10pF	±5%	0.2	490-4507-1-ND	2.54	15.02	43.31	490-4507-2-ND	20,000	42.00/M	GRM0225C1C100JD05D
	C0G (NP0)	16	11pF	±5%	0.2	490-4508-1-ND	2.68	15.86	45.75	490-4508-2-ND	20,000	44.00/M	GRM0225C1C110JD05D
	C0G (NP0)	16	12pF	±5%	0.2	490-4509-1-ND	2.54	15.02	43.31	490-4509-2-ND	20,000	42.00/M	GRM0225C1C120JD05D
	C0G (NP0)	16	13pF	±5%	0.2	490-4510-1-ND	2.68	15.86	45.75	490-4510-2-ND	20,000	44.00/M	GRM0225C1C130JD05D
	C0G (NP0)	16	15pF	±5%	0.2	490-4511-1-ND	2.54	15.02	43.31	490-4511-2-ND	20,000	42.00/M	GRM0225C1C150JD05D
	C0G (NP0)	16	18pF	±5%	0.2	490-4525-1-ND	2.67	15.80	45.56	490-4525-2-ND	20,000	44.00/M	GRM0225C1C180JD01D
	C0G (NP0)	16	22pF	±5%	0.2	490-4526-1-ND	2.54	15.02	43.31	490-4526-2-ND	20,000	42.00/M	GRM0225C1C220JD05D
	C0G (NP0)	16	27pF	±5%	0.2	490-4527-1-ND	2.54	15.02	43.31	490-4527-2-ND	20,000	42.00/M	GRM0225C1C270JD05D
	C0G (NP0)	16	39pF	±5%	0.2	490-4529-1-ND	2.54	15.02	43.31	490-4529-2-ND	20,000	42.00/M	GRM0225C1C390JD05D
	C0G (NP0)	16	47pF	±5%	0.2	490-4530-1-ND	2.54	15.02	43.31	490-4530-2-ND	20,000	42.00/M	GRM0225C1C470JD05D
	X5R	6.3	680pF	±10%	0.2	490-4531-1-ND	2.85	16.84	48.56	490-4531-2-ND	20,000	47.00/M	GRM022R60J681KE19D
	X5R	6.3	1000pF	±10%	0.2	490-4532-1-ND	2.85	16.84	48.56	490-4532-2-ND	20,000	47.00/M	GRM022R60J102KE19D
	X5R	6.3	1500pF	±10%	0.2	490-4533-1-ND	2.85	16.84	48.56	490-4533-2-ND	20,000	47.00/M	GRM022R60J152KE19D
	X5R	6.3	2200pF	±10%	0.2	490-4534-1-ND	2.85	16.84	48.56	490-4534-2-ND	20,000	47.00/M	GRM022R60J222KE19D
	X5R	6.3	3300pF	±10%	0.2	490-4535-1-ND	2.85	16.84	48.56	490-4535-2-ND	20,000	47.00/M	GRM022R60J332KE19D
	X5R	6.3	4700pF	±10%	0.2	490-4536-1-ND	2.85	16.84	48.56	490-4536-2-ND	20,000	47.00/M	GRM022R60J472KE19D
	X5R	6.3	6800pF	±10%	0.2	490-4537-1-ND	2.85	16.84	48.56	490-4537-2-ND	20,000	47.00/M	GRM022R60J682KE19D
	X5R	6.3	10000pF	±10%	0.2	490-4538-1-ND	2.85	16.84	48.56	490-4538-2-ND	20,000	47.00/M	GRM022R60J103KE19D
0201	C0G (NP0)	25	.5pF	±.25pF	0.3	490-1241-1-ND	.25	1.50	4.31	490-1241-2-ND	15,000	4.00/M	GRM0335C1ER50CD01D
	C0G (NP0)	25	1.0pF	±.25pF	0.3	490-3122-1-ND	.23	1.37	3.94	490-3122-2-ND	15,000	4.00/M	GRM0335C1E1R0CD01D
	C0G (NP0)	25	1.1pF	±.25pF	0.3	490-3123-1-ND	.23	1.37	3.94	490-3123-2-ND	15,000	3.78/M	GRM0335C1E1R1CD01D
	C0G (NP0)	25	1.2pF	±.25pF	0.3	490-1242-1-ND	.23	1.37	3.94	490-1242-2-ND	15,000	4.00/M	GRM0335C1E1R2CD01D
	C0G (NP0)	25	1.3pF	±.25pF	0.3	490-3124-1-ND	.23	1.37	3.94	490-3124-2-ND	15,000	3.78/M	GRM0335C1E1R3CD01D
	C0G (NP0)	25	1.5pF	±.25pF	0.3	490-1243-1-ND	.23	1.37	3.94	490-1243-2-ND	15,000	4.00/M	GRM0335C1E1R5CD01D
	C0G (NP0)	25	1.8pF	±.25pF	0.3	490-1244-1-ND	.23	1.37	3.94	490-1244-2-ND	15,000	4.00/M	GRM0335C1E1R8CD01D
	C0G (NP0)	25	2.0pF	±.25pF	0.3	490-1245-1-ND	.23	1.37	3.94	490-1245-2-ND	15,000	4.00/M	GRM0335C1E2R0CD01D
	C0G (NP0)	25	2.2pF	±.25pF	0.3	490-1246-1-ND	.23	1.37	3.94	490-1246-2-ND	15,000	4.00/M	GRM0335C1E2R2CD01D
	C0G (NP0)	25	2.4pF	±.25pF	0.3	490-1247-1-ND	.23	1.37	3.94	490-1247-2-ND	15,000	4.00/M	GRM0335C1E2R4CD01D
	C0G (NP0)	25	3.0pF	±.25pF	0.3	490-3127-1-ND	.23	1.37	3.94	490-3127-2-ND	15,000	4.00/M	GRM0335C1E3R0CD01D
	C0G (NP0)	25	3.3pF	±.25pF	0.3	490-1248-1-ND	.23	1.37	3.94	490-1248-2-ND	15,000	4.00/M	GRM0335C1E3R3CD01D
	C0G (NP0)	25	3.6pF	±.25pF	0.3	490-1249-1-ND	.23	1.37	3.94	490-1249-2-ND	15,000	4.00/M	GRM0335C1E3R6CD01D
	C0G (NP0)	25	4.0pF	±.25pF	0.3	490-3129-1-ND	.23	1.37	3.94	490-3129-2-ND	15,000	4.00/M	GRM0335C1E4R0CD01D
	C0G (NP0)	25	4.3pF	±.25pF	0.3	490-3130-1-ND	.23	1.37	3.94	490-3130-2-ND	15,000	4.00/M	GRM0335C1E4R3CD01D
	C0G (NP0)	25	4.7pF	±.25pF	0.3	490-3131-1-ND	.23	1.37	3.94	490-3131-2-ND	15,000	4.00/M	GRM0335C1E4R7CD01D
	C0G (NP0)	25	5.0pF	±.25pF	0.3	490-3132-1-ND	.23	1.37	3.94	490-3132-2-ND	15,000	4.00/M	GRM0335C1E5R0CD01D
	C0G (NP0)	25	5.1pF	±.5pF	0.3	490-3133-1-ND	.23	1.37	3.94	490-3133-2-ND	15,000	3.78/M	GRM0335C1E5R1DD01D
	C0G (NP0)	25	6.0pF	±.5pF	0.3	490-3135-1-ND	.23	1.37	3.94	490-3135-2-ND	15,000	4.00/M	GRM0335C1E6R0DD01D
	C0G (NP0)	25	7.0pF	±.5pF	0.3	490-1250-1-ND	.23	1.37	3.94	490-1250-2-ND	15,000	4.00/M	GRM0335C1E7R0DD01D
	C0G (NP0)	25	8.0pF	±.5pF	0.3	490-3139-1-ND	.23	1.37	3.94	490-3139-2-ND	15,000	4.00/M	GRM0335C1E8R0DD01D
	C0G (NP0)	25	9.0pF	±.5pF	0.3	490-1251-1-ND	.23	1.37	3.94	490-1251-2-ND	15,000	4.00/M	GRM0335C1E9R0DD01D
	C0G (NP0)	25	10pF	±5%	0.3	490-3142-1-ND	.20	1.20	3.47	490-3142-2-ND	15,000	3.00/M	GRM0335C1E100JD01D
	C0G (NP0)	25	12pF	±5%	0.3	490-3144-1-ND	.23	1.37	3.94	490-3144-2-ND	15,000	4.00/M	GRM0335C1E120JD01D
	C0G (NP0)	25	13pF	±5%	0.3	490-3145-1-ND	.23	1.37	3.94	490-3145-2-ND	15,000	3.78/M	GRM0335C1E130JD01D
	C0G (NP0)	25	15pF	±5%	0.3	490-3146-1-ND	.23	1.37	3.94	490-3146-2-ND	15,000	4.00/M	GRM0335C1E150JD01D
	C0G (NP0)	25	18pF	±5%	0.3	490-3148-1-ND	.23	1.37	3.94	490-3148-2-ND	15,000	4.00/M	GRM0335C1E180JD01D
	C0G (NP0)	25	20pF	±5%	0.3	490-1252-1-ND	.23	1.37	3.94	490-1252-2-ND	15,000	4.00/M	GRM0335C1E200JD01D
	C0G (NP0)	25	22pF	±5%	0.3	490-1253-1-ND	.23	1.37	3.94	490-1253-2-ND	15,000	4.00/M	GRM0335C1E220JD01D
	C0G (NP0)	25	24pF	±5%	0.3	490-3149-1-ND	.23	1.37	3.94	490-3149-2-ND	15,000	4.00/M	GRM0335C1E240JD01D
	C0G (NP0)	25	27pF	±5%	0.3	490-3150-1-ND	.23	1.37	3.94	490-3150-2-ND	15,000	4.00/M	GRM0335C1E270JD01D
	C0G (NP0)	25	30pF	±5%	0.3	490-1254-1-ND	.23	1.37	3.94	490-1254-2-ND	15,000	4.00/M	GRM0335C1E300JD01D
	C0G (NP0)	25	33pF	±5%	0.3	490-1255-1-ND	.23	1.37	3.94	490-1255-2-ND	15,000	4.00/M	GRM0335C1E330JD01D
	C0G (NP0)	25	39pF	±5%	0.3	490-3152-1-ND	.23	1.37	3.94	490-3152-2-ND	15,000	4.00/M	GRM0335C1E390JD01D
	C0G (NP0)	25	47pF	±5%	0.3	490-1256-1-ND	.23	1.37	3.94	490-1256-2-ND	15,000	4.00/M	GRM0335C1E470JD01D
	C0G (NP0)	25	68pF	±5%	0.3	490-3157-1-ND	.23	1.37	3.94	490-3157-2-ND	15,000	4.00/M	GRM0335C1E680JD01D
	C0G (NP0)	25	82pF	±5%	0.3	490-1257-1-ND	.23	1.37	3.94	490-1257-2-ND	15,000	4.00/M	GRM0335C1E820JD01D
	C0G (NP0)	25	100pF	±5%	0.3	490-3160-1-ND	.23	1.37	3.94	490-3160-2-ND	15,000	4.00/M	GRM0335C1E101JD01D
	U2J	50	15pF	±5%	0.3	490-3883-1-ND	.46	2.73	7.88	490-3883-2-ND	15,000	8.00/M	GRM0337U1H150JD01D
	U2J	25	100pF	±5%	0.3	490-3882-1-ND	.46	2.73	7.88	490-3882-2-ND	15,000	8.00/M	GRM0337U1E101JD01D
	X7R	25	100pF	±10%	0.3	490-3172-1-ND	.23	1.37	3.94	490-3172-2-ND	15,000	4.00/M	GRM033R71E101KA01D
	X7R	25	150pF	±10%	0.3	490-3174-1-ND	.23	1.37	3.94	490-3174-2-ND	15,000	4.00/M	GRM033R71E151KA01D
	X7R	25	220pF	±10%	0.3	490-3176-1-ND	.23	1.37	3.94	490-3176-2-ND	15,000	4.00/M	GRM033R71E221KA01D
	X7R	25	330pF	±10%	0.3	490-3178-1-ND	.23	1.37	3.94	490-3178-2-ND	15,000	4.00/M	GRM033R71E331KA01D
	X7R	25	470pF	±10%	0.3	490-3180-1-ND	.23	1.37	3.94	490-3180-2-ND	15,000	4.00/M	GRM033R71E471KA01D
	X7R	25	680pF	±10%	0.3	490-3182-1-ND	.23	1.37	3.94	490-3182-2-ND	15,000	4.00/M	GRM033R71E681KA01D
	X7R	25	820pF	±10%	0.3	490-3183-1-ND	.23	1.37	3.94	490-3183-2-ND	15,000	4.00/M	GRM033R71E821KA01D
	X7R	25	1000pF	±10%	0.3	490-3184-1-ND	.23	1.37	3.94	490-3184-2-ND	15,000	4.00/M	GRM033R71E102KA01D
	X7R	25	1500pF	±10%	0.3	490-3185-1-ND	.23	1.37	3.94	490-3185-2-ND	15,000	4.00/M	GRM033R71E152KA01D
	X7R	16	100pF	±10%	0.3	490-1258-1-ND	.23	1.37	3.94	490-1258-2-ND	15,000	3.78/M	GRM033R71C101KD01D
	X7R	16	150pF	±10%	0.3	490-3186-1-ND	.26	1.56	4.50	490-3186-2-ND	15,000	4.00/M	GRM033R71C151KD01D
	X7R	16	220pF	±10%	0.3	490-3187-1-ND	.26	1.56	4.50	490-3187-2-ND	15,000	4.00/M	GRM033R71C221KD01D
	X7R	16	330pF	±10%	0.3	490-3189-1-ND	.23	1.37	3.94	490-3189-2-ND	15,000	4.00/M	GRM033R71C331KD01D
	X7R	16	470pF	±10%	0.3	490-1259-1-ND	.25	1.50	4.31	490-1259-2-ND	15,000	4.00/M	GRM033R71C471KD01D
	X7R	16	680pF	±10%	0.3	490-1260-1-ND	.23	1.37	3.94	490-1260-2-ND	15,000	4.00/M	GRM033R71C681KD01D
	X7R	16	1000pF	±10%	0.3	490-1261-1-ND	.25	1.50	4.31	490-1261-2-ND	15,000	4.00/M	GRM033R71C102KD01D
	X7R	16	1500pF	±10%	0.3	490-5406-1-ND ***NEW!***	.23	1.37	3.94	490-5406-2-ND ***NEW!***	15,000	4.00/M	GRM033R71C152KA01D
	X7R	16	2200pF	±10%	0.3	490-3190-1-ND ***NEW!***	.23	1.37	3.94	490-3190-2-ND ***NEW!***	15,000	4.00/M	GRM033R71C222KA88D
	X7R	16	3300pF	±10%	0.3	490-3191-1-ND	.23	1.37	3.94	490-3191-2-ND	15,000	4.00/M	GRM033R71C332KA88D
	X7R	10	4700pF	±10%	0.3	490-3192-1-ND	.23	1.37	3.94	490-3192-2-ND	15,000	4.00/M	GRM033R71A472KA01D
	X7R	10	6800pF	±10%	0.3	490-3193-1-ND	.23	1.37	3.94	490-3193-2-ND	15,000	4.00/M	GRM033R71A682KA01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0201	X7R	10	10000pF	±10%	0.3	490-3194-1-ND	.23	1.37	3.94	490-3194-2-ND	15,000	4.00/M	GRM033R71A103KA01D
	X7R	6.3	10000pF	±10%	0.3	490-1262-1-ND	.23	1.37	3.94	490-1262-2-ND	15,000	4.00/M	GRM033R70J103KA01D
	X6S	4	68000pF	±10%	0.3	490-4513-1-ND	.34	2.02	5.81	490-4513-2-ND	15,000	6.00/M	GRM033C80G683KE19D
	X6S	4	.1μF	±10%	0.3	490-4514-1-ND	.36	2.15	6.19	490-4514-2-ND	15,000	6.00/M	GRM033C80G104KE19D
	X5R	10	1500pF	±10%	0.3	490-3161-1-ND	.23	1.37	3.94	490-3161-2-ND	15,000	4.00/M	GRM033R61A152KA01D
	X5R	10	2200pF	±10%	0.3	490-3162-1-ND	.23	1.37	3.94	490-3162-2-ND	15,000	4.00/M	GRM033R61A222KA01D
	X5R	10	3300pF	±10%	0.3	490-3163-1-ND	.23	1.37	3.94	490-3163-2-ND	15,000	4.00/M	GRM033R61A332KA01D
	X5R	10	4700pF	±10%	0.3	490-3164-1-ND	.23	1.37	3.94	490-3164-2-ND	15,000	4.00/M	GRM033R61A472KA01D
	X5R	10	6800pF	±10%	0.3	490-3165-1-ND	.23	1.37	3.94	490-3165-2-ND	15,000	4.00/M	GRM033R61A682KA01D
	X5R	10	10000pF	±10%	0.3	490-3166-1-ND	.23	1.37	3.94	490-3166-2-ND	15,000	4.00/M	GRM033R61A103KA01D
	X5R	10	.1μF	±20%	0.3	490-5405-1-ND ***NEW!***	.36	2.15	6.19	490-5405-2-ND ***NEW!***	15,000	6.00/M	GRM033R61A104ME15D
	X5R	6.3	10000pF	±10%	0.3	490-5403-1-ND ***NEW!***	.23	1.37	3.94	490-5403-2-ND ***NEW!***	15,000	4.00/M	GRM033R60J103KA01D
	X5R	6.3	15000pF	±10%	0.3	490-3168-1-ND	.31	1.82	5.25	490-3168-2-ND	15,000	5.00/M	GRM033R60J153KE01D
	X5R	6.3	22000pF	±10%	0.3	490-3169-1-ND	.31	1.82	5.25	490-3169-2-ND	15,000	5.00/M	GRM033R60J223KE01D
	X5R	6.3	33000pF	±10%	0.3	490-3170-1-ND	.34	2.02	5.81	490-3170-2-ND	15,000	6.00/M	GRM033R60J333KE01D
	X5R	6.3	68000pF	±10%	0.3	490-3171-1-ND	.34	2.02	5.81	490-3171-2-ND	15,000	6.00/M	GRM033R60J683KE19D
	X5R	6.3	.1μF	±10%	0.3	490-3167-1-ND	.32	1.89	5.44	490-3167-2-ND	15,000	5.00/M	GRM033R60J104KE19D
	X5R	6.3	.1μF	±20%	0.3	490-5404-1-ND ***NEW!***	.36	2.15	6.19	490-5404-2-ND ***NEW!***	15,000	6.00/M	GRM033R60J104ME19D
	Y5V	10	4700pF	+80%, -20%	0.3	490-3197-1-ND	.40	2.34	6.75	490-3197-2-ND	15,000	6.00/M	GRM033F51A472ZD01D
	Y5V	10	10000pF	+80%, -20%	0.3	490-3195-1-ND	.40	2.34	6.75	490-3195-2-ND	15,000	6.00/M	GRM033F51A103ZD01D
0402	C0G (NP0)	50	.5pF	±.25pF	0.5	490-1263-1-ND	.26	1.56	4.50	490-1263-2-ND	10,000	4.00/M	GRM1555C1HR50CZ01D
	C0G (NP0)	50	.75pF	±.25pF	0.5	490-1264-1-ND	.26	1.56	4.50	490-1264-2-ND	10,000	4.00/M	GRM1555C1HR75CZ01D
	C0G (NP0)	50	1.2pF	±.25pF	0.5	490-1265-1-ND	.26	1.56	4.50	490-1265-2-ND	10,000	4.00/M	GRM1555C1H1R2CZ01D
	C0G (NP0)	50	1.5pF	±.25pF	0.5	490-1266-1-ND	.26	1.56	4.50	490-1266-2-ND	10,000	4.00/M	GRM1555C1H1R5CZ01D
	C0G (NP0)	50	1.8pF	±.25pF	0.5	490-3203-1-ND	.26	1.56	4.50	490-3203-2-ND	10,000	4.00/M	GRM1555C1H1R8CZ01D
	C0G (NP0)	50	2.2pF	±.25pF	0.5	490-1267-1-ND	.26	1.56	4.50	490-1267-2-ND	10,000	4.00/M	GRM1555C1H2R2CZ01D
	C0G (NP0)	50	2.4pF	±.25pF	0.5	490-1268-1-ND	.26	1.56	4.50	490-1268-2-ND	10,000	4.32/M	GRM1555C1H2R4CZ01D
	C0G (NP0)	50	2.7pF	±.25pF	0.5	490-1269-1-ND	.26	1.56	4.50	490-1269-2-ND	10,000	4.00/M	GRM1555C1H2R7CZ01D
	C0G (NP0)	50	3.0pF	±.25pF	0.5	490-3205-1-ND	.19	1.14	3.28	490-3205-2-ND	10,000	3.00/M	GRM1555C1H3R0CZ01D
	C0G (NP0)	50	3.3pF	±.25pF	0.5	490-1270-1-ND	.26	1.56	4.50	490-1270-2-ND	10,000	4.32/M	GRM1555C1H3R3CZ01D
	C0G (NP0)	50	3.6pF	±.25pF	0.5	490-1271-1-ND	.26	1.56	4.50	490-1271-2-ND	10,000	4.32/M	GRM1555C1H3R6CZ01D
	C0G (NP0)	50	3.9pF	±.25pF	0.5	490-1272-1-ND	.26	1.56	4.50	490-1272-2-ND	10,000	4.00/M	GRM1555C1H3R9CZ01D
	C0G (NP0)	50	4.0pF	±.25pF	0.5	490-3206-1-ND	.19	1.14	3.28	490-3206-2-ND	10,000	3.00/M	GRM1555C1H4R0CZ01D
	C0G (NP0)	50	4.7pF	±.25pF	0.5	490-1273-1-ND	.22	1.30	3.75	490-1273-2-ND	10,000	4.00/M	GRM1555C1H4R7CZ01D
	C0G (NP0)	50	5.0pF	±.25pF	0.5	490-1274-1-ND	.19	1.14	3.28	490-1274-2-ND	10,000	3.00/M	GRM1555C1H5R0CZ01D
	C0G (NP0)	50	5.1pF	±.5pF	0.5	490-3208-1-ND	.26	1.56	4.50	490-3208-2-ND	10,000	4.32/M	GRM1555C1H5R1DZ01D
	C0G (NP0)	50	5.6pF	±.5pF	0.5	490-1275-1-ND	.26	1.56	4.50	490-1275-2-ND	10,000	4.00/M	GRM1555C1H5R6DZ01D
	C0G (NP0)	50	6.0pF	±.5pF	0.5	490-3209-1-ND	.19	1.14	3.28	490-3209-2-ND	10,000	3.00/M	GRM1555C1H6R0DZ01D
	C0G (NP0)	50	6.8pF	±.5pF	0.5	490-1276-1-ND	.26	1.56	4.50	490-1276-2-ND	10,000	4.00/M	GRM1555C1H6R8DZ01D
	C0G (NP0)	50	7.0pF	±.5pF	0.5	490-1277-1-ND	.19	1.14	3.28	490-1277-2-ND	10,000	3.00/M	GRM1555C1H7R0DZ01D
	C0G (NP0)	50	7.5pF	±.5pF	0.5	490-3211-1-ND	.26	1.56	4.50	490-3211-2-ND	10,000	4.00/M	GRM1555C1H7R5DZ01D
	C0G (NP0)	50	8.0pF	±.5pF	0.5	490-3212-1-ND	.19	1.14	3.28	490-3212-2-ND	10,000	3.00/M	GRM1555C1H8R0DZ01D
	C0G (NP0)	50	9.0pF	±.5pF	0.5	490-3214-1-ND	.19	1.14	3.28	490-3214-2-ND	10,000	3.00/M	GRM1555C1H9R0DZ01D
	C0G (NP0)	50	10pF	±5%	0.5	490-1278-1-ND	.19	1.14	3.28	490-1278-2-ND	10,000	3.00/M	GRM1555C1H100JZ01D
	C0G (NP0)	50	12pF	±5%	0.5	490-1279-1-ND	.19	1.14	3.28	490-1279-2-ND	10,000	3.00/M	GRM1555C1H120JZ01D
	C0G (NP0)	50	15pF	±5%	0.5	490-1280-1-ND	.19	1.14	3.28	490-1280-2-ND	10,000	3.00/M	GRM1555C1H150JZ01D
	C0G (NP0)	50	18pF	±5%	0.5	490-1281-1-ND	.19	1.14	3.28	490-1281-2-ND	10,000	3.00/M	GRM1555C1H180JZ01D
	C0G (NP0)	50	20pF	±5%	0.5	490-1282-1-ND	.43	2.54	7.31	490-1282-2-ND	10,000	7.00/M	GRM1555C1H200JZ01D
	C0G (NP0)	50	22pF	±5%	0.5	490-1283-1-ND	.19	1.14	3.28	490-1283-2-ND	10,000	3.00/M	GRM1555C1H220JZ01D
	C0G (NP0)	50	24pF	±5%	0.5	490-3219-1-ND	.43	2.54	7.31	490-3219-2-ND	10,000	7.00/M	GRM1555C1H240JZ01D
	C0G (NP0)	50	27pF	±5%	0.5	490-1284-1-ND	.19	1.14	3.28	490-1284-2-ND	10,000	3.00/M	GRM1555C1H270JZ01D
	C0G (NP0)	50	30pF	±5%	0.5	490-1285-1-ND	.43	2.54	7.31	490-1285-2-ND	10,000	7.00/M	GRM1555C1H300JZ01D
	C0G (NP0)	50	33pF	±5%	0.5	490-3220-1-ND	.15	.91	2.63	490-3220-2-ND	10,000	3.00/M	GRM1555C1H330JZ01D
	C0G (NP0)	50	39pF	±5%	0.5	490-1286-1-ND	.19	1.14	3.28	490-1286-2-ND	10,000	3.00/M	GRM1555C1H390JZ01D
	C0G (NP0)	50	43pF	±5%	0.5	490-3222-1-ND	.43	2.54	7.31	490-3222-2-ND	10,000	7.02/M	GRM1555C1H430JZ01D
	C0G (NP0)	50	47pF	±5%	0.5	490-1287-1-ND	.15	.91	2.63	490-1287-2-ND	10,000	3.00/M	GRM1555C1H470JZ01D
	C0G (NP0)	50	51pF	±5%	0.5	490-3223-1-ND	.43	2.54	7.31	490-3223-2-ND	10,000	7.00/M	GRM1555C1H510JZ01D
	C0G (NP0)	50	56pF	±5%	0.5	490-1288-1-ND	.21	1.24	3.56	490-1288-2-ND	10,000	3.00/M	GRM1555C1H560JD01D
	C0G (NP0)	50	68pF	±5%	0.5	490-1289-1-ND	.19	1.14	3.28	490-1289-2-ND	10,000	3.00/M	GRM1555C1H680JZ01D
	C0G (NP0)	50	75pF	±5%	0.5	490-3225-1-ND	.43	2.54	7.31	490-3225-2-ND	10,000	7.00/M	GRM1555C1H750JZ01D
	C0G (NP0)	50	82pF	±5%	0.5	490-1290-1-ND	.19	1.14	3.28	490-1290-2-ND	10,000	3.00/M	GRM1555C1H820JZ01D
	C0G (NP0)	50	100pF	±5%	0.5	490-3458-1-ND	.15	.91	2.63	490-3458-2-ND	10,000	3.00/M	GRM1555C1H101JZ01D
	C0G (NP0)	50	110pF	±5%	0.5	490-3227-1-ND	.44	2.60	7.50	490-3227-2-ND	10,000	7.00/M	GRM1555C1H111JA01D
	C0G (NP0)	50	120pF	±5%	0.5	490-1292-1-ND	.29	1.70	4.91	490-1292-2-ND	10,000	5.00/M	GRM1555C1H121JA01D
	C0G (NP0)	50	150pF	±5%	0.5	490-3229-1-ND	.27	1.59	4.59	490-3229-2-ND	10,000	4.00/M	GRM1555C1H151JA01D
	C0G (NP0)	50	160pF	±5%	0.5	490-3230-1-ND	.50	2.93	8.44	490-3230-2-ND	10,000	8.10/M	GRM1555C1H161JA01D
	C0G (NP0)	50	180pF	±5%	0.5	490-3231-1-ND	.29	1.70	4.91	490-3231-2-ND	10,000	5.00/M	GRM1555C1H181JA01D
	C0G (NP0)	50	200pF	±5%	0.5	490-3232-1-ND	.50	2.93	8.44	490-3232-2-ND	10,000	8.10/M	GRM1555C1H201JA01D
	C0G (NP0)	50	220pF	±5%	0.5	490-1293-1-ND	.29	1.70	4.91	490-1293-2-ND	10,000	5.00/M	GRM1555C1H221JA01D
	C0G (NP0)	50	270pF	±5%	0.5	490-1294-1-ND	.47	2.80	8.06	490-1294-2-ND	10,000	8.00/M	GRM1555C1H271JA01D
	C0G (NP0)	50	330pF	±5%	0.5	490-1295-1-ND	.53	3.12	9.00	490-1295-2-ND	10,000	9.00/M	GRM1555C1H331JA01D
	C0G (NP0)	50	390pF	±5%	0.5	490-1296-1-ND	.54	3.19	9.19	490-1296-2-ND	10,000	9.00/M	GRM1555C1H391JA01D
	C0G (NP0)	50	470pF	±5%	0.5	490-1297-1-ND	.54	3.19	9.19	490-1297-2-ND	10,000	9.00/M	GRM1555C1H471JA01D
	C0G (NP0)	50	510pF	±5%	0.5	490-3237-1-ND	.61	3.58	10.31	490-3237-2-ND	10,000	10.00/M	GRM1555C1H511JA01D
	C0G (NP0)	50	560pF	±5%	0.5	490-3238-1-ND	.51	2.99	8.63	490-3238-2-ND	10,000	8.00/M	GRM1555C1H561JA01D
	C0G (NP0)	50	620pF	±5%	0.5	490-3239-1-ND	.61	3.58	10.31	490-3239-2-ND	10,000	10.00/M	GRM1555C1H621JA01D
	C0G (NP0)	50	680pF	±5%	0.5	490-3240-1-ND	.51	2.99	8.63	490-3240-2-ND	10,000	8.00/M	GRM1555C1H681JA01D
	C0G (NP0)	50	820pF	±5%	0.5	490-3242-1-ND	.64	3.77	10.88	490-3242-2-ND	10,000	10.00/M	GRM1555C1H821JA01D
	C0G (NP0)	50	1000pF	±5%	0.5	490-3244-1-ND	.73	4.29	12.38	490-3244-2-ND	10,000	12.00/M	GRM1555C1H102JA01D
	X7R	100	4700pF	±10%	0.5	490-3885-1-ND	.31	1.82	5.25	490-3885-2-ND	10,000	5.00/M	GRM155R72A472KA01D
	X7R	50	220pF	±10%	0.5	490-1298-1-ND	.23	1.37	3.94	490-1298-2-ND	10,000	4.00/M	GRM155R71H221KA01D
	X7R	50	270pF	±10%	0.5	490-1299-1-ND	.23	1.37	3.94	490-1299-2-ND	10,000	4.00/M	GRM155R71H271KA01D
	X7R	50	330pF	±10%	0.5	490-3247-1-ND ***NEW!***	.23	1.37	3.94	490-3247-2-ND ***NEW!***	10,000	4.00/M	GRM155R71H331KA01D
	X7R	50	390pF	±10%	0.5	490-3249-1-ND ***NEW!***	.23	1.37	3.94	490-3249-2-ND ***NEW!***	10,000	4.00/M	GRM155R71H391KA01D
	X7R	50	470pF	±10%	0.5	490-1300-1-ND	.23	1.37	3.94	490-1300-2-ND	10,000	4.00/M	GRM155R71H471KA01D
	X7R	50	560pF	±10%	0.5	490-1301-1-ND	.23	1.37	3.94	490-1301-2-ND	10,000	4.00/M	GRM155R71H561KA01D
	X7R	50	680pF	±10%	0.5	490-1302-1-ND	.23	1.37	3.94	490-1302-2-ND	10,000	4.00/M	GRM155R71H681KA01D
	X7R	50	820pF	±10%	0.5	490-3250-1-ND	.23	1.37	3.94	490-3250-2-ND	10,000	4.00/M	GRM155R71H821KA01D
	X7R	50	1000pF	±10%	0.5	490-1303-1-ND	.14	.81	2.34	490-1303-2-ND	10,000	2.00/M	GRM155R71H102KA01D
	X7R	50	1200pF	±10%	0.5	490-1304-1-ND	.21	1.24	3.56	490-1304-2-ND	10,000	3.00/M	GRM155R71H122KA01D
	X7R	50	1500pF	±10%	0.5	490-3245-1-ND	.21	1.24	3.56	490-3245-2-ND	10,000	3.00/M	GRM155R71H152KA01D
	X7R	50	1800pF	±10%	0.5	490-3246-1-ND ***NEW!***	.21	1.24	3.56	490-3246-2-ND ***NEW!***	10,000	3.00/M	GRM155R71H182KA01D
	X7R	50	2200pF	±10%	0.5	490-1305-1-ND	.19	1.14	3.28	490-1305-2-ND	10,000	3.00/M	GRM155R71H222KA01D
	X7R	50	2700pF	±10%	0.5	490-1306-1-ND	.21	1.24	3.56	490-1306-2-ND	10,000	3.00/M	GRM155R71H272KA01D
	X7R	50	3300pF	±10%	0.5	490-3248-1-ND ***NEW!***	.21	1.24	3.56	490-3248-2-ND ***NEW!***	10,000	3.00/M	GRM155R71H332KA01D
	X7R	50	3900pF	±10%	0.5	490-1307-1-ND	.21	1.24	3.56	490-1307-2-ND	10,000	3.00/M	GRM155R71H392KA01D
	X7R	50	4700pF	±10%	0.5	490-1308-1-ND	.21	1.24	3.56	490-1308-2-ND	10,000	3.00/M	GRM155R71H472KA01D
	X7R	50	6800pF	±10%	0.5	490-4515-1-ND	.28	1.63	4.69	490-4515-2-ND	10,000	4.00/M	GRM155R71H682KA88D
	X7R	50	10000pF	±10%	0.5	490-4516-1-ND	.23	1.37	3.94	490-4516-2-ND	10,000	3.00/M	GRM155R71H103KA88D
	X7R	50	15000pF	±10%	0.5	490-4517-1-ND	.33	1.95	5.63	490-4517-2-ND	10,000	4.00/M	GRM155R71H153KA12D
	X7R	50	22000pF	±10%	0.5	490-3884-1-ND	.33	1.95	5.63	490-3884-2-ND	10,000	5.00/M	GRM155R71H223KA12D
	X7R	25	2200pF	±10%	0.5	490-5419-1-ND ***NEW!***	.21	1.24	3.56	490-5419-2-ND ***NEW!***	10,000	3.00/M	GRM155R71E222KA01D
	X7R	25	4700pF	±10%	0.5	490-1309-1-ND	.19	1.14	3.28	490-1309-2-ND	10,000	3.00/M	GRM155R71E472KA01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0402	X7R	25	5600pF	±10%	0.5	490-5420-1-ND ***NEW!***	.21	1.24	3.56	490-5420-2-ND ***NEW!***	10,000	3.00/M	GRM155R71E562KA01D
	X7R	25	6800pF	±10%	0.5	490-1310-1-ND	.21	1.24	3.56	490-1310-2-ND	10,000	3.00/M	GRM155R71E682KA01D
	X7R	25	8200pF	±10%	0.5	490-1311-1-ND	.21	1.24	3.56	490-1311-2-ND	10,000	3.00/M	GRM155R71E822KA01D
	X7R	25	10000pF	±10%	0.5	490-1312-1-ND	.13	.78	2.25	490-1312-2-ND	10,000	2.00/M	GRM155R71E103KA01D
	X7R	25	15000pF	±10%	0.5	490-3251-1-ND	.30	1.76	5.06	490-3251-2-ND	10,000	5.00/M	GRM155R71E153KA61D
	X7R	25	22000pF	±10%	0.5	490-3252-1-ND	.31	1.82	5.25	490-3252-2-ND	10,000	5.00/M	GRM155R71E223KA61D
	X7R	25	33000pF	±10%	0.5	490-3253-1-ND	.44	2.60	7.50	490-3253-2-ND	10,000	7.00/M	GRM155R71E333KA88D
	X7R	25	47000pF	±10%	0.5	490-3254-1-ND	.34	2.02	5.81	490-3254-2-ND	10,000	6.00/M	GRM155R71E473KA88D
	X7R	16	10000pF	±10%	0.5	490-1313-1-ND	.14	.81	2.34	490-1313-2-ND	10,000	2.00/M	GRM155R71C103KA01D
	X7R	16	12000pF	±10%	0.5	490-3255-1-ND ***NEW!***	.29	1.70	4.91	490-3255-2-ND ***NEW!***	10,000	5.00/M	GRM155R71C123KA01D
	X7R	16	15000pF	±10%	0.5	490-1314-1-ND	.28	1.64	4.74	490-1314-2-ND	10,000	5.00/M	GRM155R71C153KA01D
	X7R	16	18000pF	±10%	0.5	490-5417-1-ND ***NEW!***	.34	2.02	5.81	490-5417-2-ND ***NEW!***	10,000	6.00/M	GRM155R71C183KA01D
	X7R	16	22000pF	±10%	0.5	490-3256-1-ND	.26	1.55	4.46	490-3256-2-ND	10,000	4.00/M	GRM155R71C223KA01D
	X7R	16	33000pF	±10%	0.5	490-3257-1-ND ***NEW!***	.36	2.15	6.19	490-3257-2-ND ***NEW!***	10,000	6.00/M	GRM155R71C333KA01D
	X7R	16	39000pF	±10%	0.5	490-3258-1-ND ***NEW!***	.40	2.34	6.75	490-3258-2-ND ***NEW!***	10,000	6.00/M	GRM155R71C393KA01D
	X7R	16	82000pF	±10%	0.5	490-3260-1-ND ***NEW!***	.42	2.47	7.13	490-3260-2-ND ***NEW!***	10,000	7.00/M	GRM155R71C823KA88D
	X7R	16	.1µF	±10%	0.5	490-3261-1-ND	.15	.91	2.63	490-3261-2-ND	10,000	3.00/M	GRM155R71C104KA88D
	X7R	16	.22µF	±10%	0.5	490-5418-1-ND ***NEW!***	.72	4.23	12.19	490-5418-2-ND ***NEW!***	10,000	12.00/M	GRM155R71C224KA12D
	X7R	10	27000pF	±10%	0.5	490-3262-1-ND ***NEW!***	.39	2.28	6.56	490-3262-2-ND ***NEW!***	10,000	6.00/M	GRM155R71A273KA01D
	X7R	10	33000pF	±10%	0.5	490-1315-1-ND	.35	2.09	6.04	490-1315-2-ND	10,000	6.00/M	GRM155R71A333KA01D
	X7R	10	47000pF	±10%	0.5	490-1316-1-ND	.28	1.64	4.74	490-1316-2-ND	10,000	5.00/M	GRM155R71A473KA01D
	X5R	16	33000pF	±10%	0.5	490-5416-1-ND ***NEW!***	.36	2.15	6.19	490-5416-2-ND ***NEW!***	10,000	6.00/M	GRM155R61C333KA01D
	X5R	16	.1µF	±10%	0.5	490-5415-1-ND ***NEW!***	.23	1.37	3.94	490-5415-2-ND ***NEW!***	10,000	4.00/M	GRM155R61C104KA88D
	X5R	10	27000pF	±10%	0.5	490-5410-1-ND ***NEW!***	.39	2.28	6.56	490-5410-2-ND ***NEW!***	10,000	6.00/M	GRM155R61A273KA01D
	X5R	10	33000pF	±10%	0.5	490-5411-1-ND ***NEW!***	.36	2.15	6.19	490-5411-2-ND ***NEW!***	10,000	6.00/M	GRM155R61A333KA01D
	X5R	10	47000pF	±10%	0.5	490-5412-1-ND ***NEW!***	.31	1.82	5.25	490-5412-2-ND ***NEW!***	10,000	5.00/M	GRM155R61A473KA01D
	X5R	10	56000pF	±10%	0.5	490-5413-1-ND ***NEW!***	.37	2.21	6.38	490-5413-2-ND ***NEW!***	10,000	6.00/M	GRM155R61A563KA01D
	X5R	10	68000pF	±10%	0.5	490-1317-1-ND	.36	2.15	6.19	490-1317-2-ND	10,000	6.00/M	GRM155R61A683KA01D
	X5R	10	82000pF	±10%	0.5	490-5414-1-ND ***NEW!***	.36	2.15	6.19	490-5414-2-ND ***NEW!***	10,000	6.00/M	GRM155R61A823KA01D
	X5R	10	.1µF	±10%	0.5	490-1318-1-ND	.13	.78	2.25	490-1318-2-ND	10,000	2.00/M	GRM155R61A104KA01D
	X5R	10	.22µF	±10%	0.5	490-3910-1-ND	.58	3.41	9.84	490-3910-2-ND	10,000	9.00/M	GRM155R61A224KE19D
	X5R	10	.33µF	±10%	0.5	490-3263-1-ND	.91	5.40	15.56	490-3263-2-ND	10,000	15.00/M	GRM155R61A334KE15D
	X5R	10	.47µF	±10%	0.5	490-3264-1-ND	.80	4.75	13.69	490-3264-2-ND	10,000	13.00/M	GRM155R61A474KE15D
	X5R	10	1.0µF	±10%	0.5	490-3890-1-ND	.69	4.10	11.81	490-3890-2-ND	10,000	11.00/M	GRM155R61A105KE15D
	X5R	10	1.0µF	±20%	0.5	490-5409-1-ND ***NEW!***	.69	4.10	11.81	490-5409-2-ND ***NEW!***	10,000	11.00/M	GRM155R61A105ME15D
	X5R	6.3	.22µF	±10%	0.5	490-5407-1-ND ***NEW!***	.66	3.90	11.25	490-5407-2-ND ***NEW!***	10,000	11.00/M	GRM155R60J224KE01D
	X5R	6.3	.33µF	±10%	0.5	490-3265-1-ND	.91	5.40	15.56	490-3265-2-ND	10,000	15.00/M	GRM155R60J334KE01D
	X5R	6.3	.47µF	±10%	0.5	490-3266-1-ND	.65	3.85	11.10	490-3266-2-ND	10,000	11.00/M	GRM155R60J474KE19D
	X5R	6.3	1.0µF	±10%	0.5	490-1320-1-ND	.37	2.21	6.38	490-1320-2-ND	10,000	6.00/M	GRM155R60J105KE19D
	X5R	6.3	1.0µF	±20%	0.5	490-1319-1-ND	.37	2.21	6.38	490-1319-2-ND	10,000	6.00/M	GRM155R60J105ME19D
	X5R	6.3	4.7µF	±20%	0.5	490-5408-1-ND ***NEW!***	4.84	28.60	82.50	490-5408-2-ND ***NEW!***	10,000	79.00/M	GRM155R60J475ME87D
	X5R	4	2.2µF	±20%	0.5	490-4518-1-ND	2.31	13.65	39.38	490-4518-2-ND	10,000	30.00/M	GRM155R60G225ME15D
	Y5V	50	2200pF	+80, -20%	0.5	490-1321-1-ND	.29	1.69	4.88	490-1321-2-ND	10,000	5.00/M	GRM155F51H222ZA01D
	Y5V	50	4700pF	+80, -20%	0.5	490-1322-1-ND	.29	1.69	4.88	490-1322-2-ND	10,000	5.00/M	GRM155F51H472ZA01D
	Y5V	50	10000pF	+80, -20%	0.5	490-1323-1-ND	.22	1.30	3.75	490-1323-2-ND	10,000	4.00/M	GRM155F51H103ZA01D
	Y5V	25	10000pF	+80, -20%	0.5	490-1324-1-ND	.25	1.50	4.31	490-1324-2-ND	10,000	4.00/M	GRM155F51E103ZA01D
	Y5V	25	22000pF	+80, -20%	0.5	490-1325-1-ND	.22	1.30	3.75	490-1325-2-ND	10,000	4.00/M	GRM155F51E223ZA01D
	Y5V	25	47000pF	+80, -20%	0.5	490-3270-1-ND	.23	1.37	3.94	490-3270-2-ND	10,000	4.00/M	GRM155F51E473ZA01D
	Y5V	25	.1µF	+80, -20%	0.5	490-3271-1-ND	.22	1.30	3.75	490-3271-2-ND	10,000	4.00/M	GRM155F51E104ZA01D
	Y5V	16	22000pF	+80, -20%	0.5	490-3272-1-ND	.25	1.50	4.31	490-3272-2-ND	10,000	4.00/M	GRM155F51C223ZA01D
	Y5V	16	47000pF	+80, -20%	0.5	490-1326-1-ND	.22	1.30	3.75	490-1326-2-ND	10,000	4.00/M	GRM155F51C473ZA01D
	Y5V	16	.1µF	+80, -20%	0.5	490-1327-1-ND	.14	.85	2.44	490-1327-2-ND	10,000	2.00/M	GRM155F51C104ZA01D
	Y5V	16	.22µF	+80, -20%	0.5	490-3273-1-ND	.37	2.21	6.38	490-3273-2-ND	10,000	6.00/M	GRM155F51C224ZA01D
	Y5V	16	.47µF	+80, -20%	0.5	490-3274-1-ND	.44	2.60	7.50	490-3274-2-ND	10,000	7.00/M	GRM155F51C474ZA01D
	Y5V	10	.33µF	+80, -20%	0.5	490-3275-1-ND	.47	2.80	8.06	490-3275-2-ND	10,000	8.00/M	GRM155F51A334ZE01D
	Y5V	10	.47µF	+80, -20%	0.5	490-3276-1-ND	.61	3.58	10.31	490-3276-2-ND	10,000	10.00/M	GRM155F51A474ZE01D
	Y5V	6.3	.1µF	+80, -20%	0.5	490-3277-1-ND	.23	1.37	3.94	490-3277-2-ND	10,000	4.00/M	GRM155F50J104ZA01D
	Y5V	6.3	.68µF	+80, -20%	0.5	490-3278-1-ND	.51	2.99	8.63	490-3278-2-ND	10,000	8.00/M	GRM155F50J684ZE01D
0603	C0G (NP0)	100	10pF	±.25pF	0.8	490-3279-1-ND	.51	3.03	8.74	490-3279-2-ND	4,000	8.00/M	GRM1885C2A100RA01D
	C0G (NP0)	100	11pF	±5%	0.8	490-1328-1-ND	.64	3.77	10.88	490-1328-2-ND	4,000	10.00/M	GRM1885C2A110JA01D
	C0G (NP0)	100	12pF	±5%	0.8	490-1329-1-ND	.50	2.93	8.44	490-1329-2-ND	4,000	8.00/M	GRM1885C2A120JA01D
	C0G (NP0)	100	13pF	±5%	0.8	490-1330-1-ND	.64	3.77	10.88	490-1330-2-ND	4,000	10.00/M	GRM1885C2A130JA01D
	C0G (NP0)	100	15pF	±5%	0.8	490-1331-1-ND	.47	2.80	8.06	490-1331-2-ND	4,000	8.00/M	GRM1885C2A150JA01D
	C0G (NP0)	100	16pF	±5%	0.8	490-1332-1-ND	.64	3.77	10.88	490-1332-2-ND	4,000	10.00/M	GRM1885C2A160JA01D
	C0G (NP0)	100	18pF	±5%	0.8	490-1333-1-ND	.50	2.93	8.44	490-1333-2-ND	4,000	8.00/M	GRM1885C2A180JA01D
	C0G (NP0)	100	20pF	±5%	0.8	490-1334-1-ND	.64	3.77	10.88	490-1334-2-ND	4,000	10.00/M	GRM1885C2A200JA01D
	C0G (NP0)	100	22pF	±5%	0.8	490-1335-1-ND	.47	2.80	8.06	490-1335-2-ND	4,000	8.00/M	GRM1885C2A220JA01D
	C0G (NP0)	100	24pF	±5%	0.8	490-1336-1-ND	.64	3.77	10.88	490-1336-2-ND	4,000	10.00/M	GRM1885C2A240JA01D
	C0G (NP0)	100	27pF	±5%	0.8	490-1337-1-ND	.50	2.93	8.44	490-1337-2-ND	4,000	8.00/M	GRM1885C2A270JA01D
	C0G (NP0)	100	30pF	±5%	0.8	490-1338-1-ND	.64	3.77	10.88	490-1338-2-ND	4,000	10.00/M	GRM1885C2A300JA01D
	C0G (NP0)	100	33pF	±5%	0.8	490-1339-1-ND	.47	2.80	8.06	490-1339-2-ND	4,000	8.00/M	GRM1885C2A330JA01D
	C0G (NP0)	100	36pF	±5%	0.8	490-1340-1-ND	.64	3.77	10.88	490-1340-2-ND	4,000	10.44/M	GRM1885C2A360JA01D
	C0G (NP0)	100	39pF	±5%	0.8	490-1341-1-ND	.50	2.93	8.44	490-1341-2-ND	4,000	8.00/M	GRM1885C2A390JA01D
	C0G (NP0)	100	43pF	±5%	0.8	490-1342-1-ND	.64	3.77	10.88	490-1342-2-ND	4,000	10.00/M	GRM1885C2A430JA01D
	C0G (NP0)	100	47pF	±5%	0.8	490-1343-1-ND	.47	2.80	8.06	490-1343-2-ND	4,000	8.00/M	GRM1885C2A470JA01D
	C0G (NP0)	100	51pF	±5%	0.8	490-1344-1-ND	.64	3.77	10.88	490-1344-2-ND	4,000	10.44/M	GRM1885C2A510JA01D
	C0G (NP0)	100	56pF	±5%	0.8	490-1345-1-ND	.50	2.93	8.44	490-1345-2-ND	4,000	8.00/M	GRM1885C2A560JA01D
	C0G (NP0)	100	62pF	±5%	0.8	490-1346-1-ND	.59	3.51	10.13	490-1346-2-ND	4,000	10.00/M	GRM1885C2A620JA01D
	C0G (NP0)	100	68pF	±5%	0.8	490-1347-1-ND	.47	2.80	8.06	490-1347-2-ND	4,000	8.00/M	GRM1885C2A680JA01D
	C0G (NP0)	100	75pF	±5%	0.8	490-1348-1-ND	.64	3.77	10.88	490-1348-2-ND	4,000	10.00/M	GRM1885C2A750JA01D
	C0G (NP0)	100	82pF	±5%	0.8	490-1349-1-ND	.50	2.93	8.44	490-1349-2-ND	4,000	8.00/M	GRM1885C2A820JA01D
	C0G (NP0)	100	91pF	±5%	0.8	490-1350-1-ND	.64	3.77	10.88	490-1350-2-ND	4,000	10.44/M	GRM1885C2A910JA01D
	C0G (NP0)	100	100pF	±5%	0.8	490-1351-1-ND	.47	2.80	8.06	490-1351-2-ND	4,000	8.00/M	GRM1885C2A101JA01D
	C0G (NP0)	100	110pF	±5%	0.8	490-1352-1-ND	.87	5.14	14.81	490-1352-2-ND	4,000	14.00/M	GRM1885C2A111JA01D
	C0G (NP0)	100	120pF	±5%	0.8	490-1353-1-ND	.76	4.49	12.94	490-1353-2-ND	4,000	12.00/M	GRM1885C2A121JA01D
	C0G (NP0)	100	130pF	±5%	0.8	490-1354-1-ND	.87	5.14	14.81	490-1354-2-ND	4,000	14.00/M	GRM1885C2A131JA01D
	C0G (NP0)	100	150pF	±5%	0.8	490-1355-1-ND	.57	3.38	9.75	490-1355-2-ND	4,000	9.00/M	GRM1885C2A151JA01D
	C0G (NP0)	100	160pF	±5%	0.8	490-1356-1-ND	.88	5.20	15.00	490-1356-2-ND	4,000	14.00/M	GRM1885C2A161JA01D
	C0G (NP0)	100	180pF	±5%	0.8	490-1357-1-ND	.76	4.49	12.94	490-1357-2-ND	4,000	12.00/M	GRM1885C2A181JA01D
	C0G (NP0)	100	200pF	±5%	0.8	490-1358-1-ND	.92	5.46	15.75	490-1358-2-ND	4,000	15.00/M	GRM1885C2A201JA01D
	C0G (NP0)	100	220pF	±5%	0.8	490-1359-1-ND	.65	3.84	11.06	490-1359-2-ND	4,000	11.00/M	GRM1885C2A221JA01D
	C0G (NP0)	100	240pF	±5%	0.8	490-1360-1-ND	1.00	5.92	17.06	490-1360-2-ND	4,000	16.00/M	GRM1885C2A241JA01D
	C0G (NP0)	100	270pF	±5%	0.8	490-1361-1-ND	.84	4.94	14.25	490-1361-2-ND	4,000	14.00/M	GRM1885C2A271JA01D
	C0G (NP0)	100	300pF	±5%	0.8	490-1362-1-ND	1.02	6.05	17.44	490-1362-2-ND	4,000	17.00/M	GRM1885C2A301JA01D
	C0G (NP0)	100	330pF	±5%	0.8	490-1363-1-ND	.70	4.16	12.00	490-1363-2-ND	4,000	12.00/M	GRM1885C2A331JA01D
	C0G (NP0)	100	360pF	±5%	0.8	490-1364-1-ND	1.05	6.18	17.81	490-1364-2-ND	4,000	17.00/M	GRM1885C2A361JA01D
	C0G (NP0)	100	390pF	±5%	0.8	490-1365-1-ND	.88	5.20	15.00	490-1365-2-ND	4,000	14.00/M	GRM1885C2A391JA01D
	C0G (NP0)	100	430pF	±5%	0.8	490-1366-1-ND	1.05	6.18	17.81	490-1366-2-ND	4,000	17.00/M	GRM1885C2A431JA01D
	C0G (NP0)	100	470pF	±5%	0.8	490-1367-1-ND	.77	4.55	13.13	490-1367-2-ND	4,000	13.00/M	GRM1885C2A471JA01D
	C0G (NP0)	100	510pF	±5%	0.8	490-1368-1-ND	1.13	6.70	19.31	490-1368-2-ND	4,000	18.54/M	GRM1885C2A511JA01D
	C0G (NP0)	100	560pF	±5%	0.8	490-1369-1-ND	.95	5.59	16.13	490-1369-2-ND	4,000	15.00/M	GRM1885C2A561JA01D
	C0G (NP0)	100	680pF	±5%	0.8	490-3280-1-ND	1.14	6.76	19.50	490-3280-2-ND	4,000	19.00/M	GRM1885C2A681JA01D
	C0G (NP0)	100	1000pF	±5%	0.8	490-3281-1-ND	.83	4.88	14.06	490-3281-2-ND	4,000	14.00/M	GRM1885C2A102JA01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	50	.5pF	±.25pF	0.8	490-1370-1-ND	.37	2.21	6.38	490-1370-2-ND	4,000	6.00/M	GRM1885C1HR50CZ01D
	C0G (NP0)	50	.75pF	±.25pF	0.8	490-1371-1-ND	.50	2.93	8.44	490-1371-2-ND	4,000	8.00/M	GRM1885C1HR75CZ01D
	C0G (NP0)	50	1.0pF	±.25pF	0.8	490-1372-1-ND	.37	2.21	6.38	490-1372-2-ND	4,000	6.00/M	GRM1885C1H1R0CZ01D
	C0G (NP0)	50	1.1pF	±.25pF	0.8	490-1373-1-ND	.50	2.93	8.44	490-1373-2-ND	4,000	8.10/M	GRM1885C1H1R1CZ01D
	C0G (NP0)	50	1.2pF	±.25pF	0.8	490-1374-1-ND	.50	2.93	8.44	490-1374-2-ND	4,000	8.00/M	GRM1885C1H1R2CZ01D
	C0G (NP0)	50	1.3pF	±.25pF	0.8	490-1375-1-ND	.50	2.93	8.44	490-1375-2-ND	4,000	8.10/M	GRM1885C1H1R3CZ01D
	C0G (NP0)	50	1.5pF	±.25pF	0.8	490-1376-1-ND	.37	2.21	6.38	490-1376-2-ND	4,000	6.00/M	GRM1885C1H1R5CZ01D
	C0G (NP0)	50	1.6pF	±.25pF	0.8	490-1377-1-ND	.50	2.93	8.44	490-1377-2-ND	4,000	8.00/M	GRM1885C1H1R6CZ01D
	C0G (NP0)	50	1.8pF	±.25pF	0.8	490-1378-1-ND	.50	2.93	8.44	490-1378-2-ND	4,000	8.00/M	GRM1885C1H1R8CZ01D
	C0G (NP0)	50	2.0pF	±.25pF	0.8	490-1379-1-ND	.37	2.21	6.38	490-1379-2-ND	4,000	6.00/M	GRM1885C1H2R0CZ01D
	C0G (NP0)	50	2.2pF	±.25pF	0.8	490-1380-1-ND	.50	2.93	8.44	490-1380-2-ND	4,000	8.00/M	GRM1885C1H2R2CZ01D
	C0G (NP0)	50	2.4pF	±.25pF	0.8	490-1381-1-ND	.50	2.93	8.44	490-1381-2-ND	4,000	8.10/M	GRM1885C1H2R4CZ01D
	C0G (NP0)	50	2.7pF	±.25pF	0.8	490-1382-1-ND	.50	2.93	8.44	490-1382-2-ND	4,000	8.00/M	GRM1885C1H2R7CZ01D
	C0G (NP0)	50	3.0pF	±.25pF	0.8	490-1383-1-ND	.37	2.21	6.38	490-1383-2-ND	4,000	6.00/M	GRM1885C1H3R0CZ01D
	C0G (NP0)	50	3.3pF	±.25pF	0.8	490-1384-1-ND	.50	2.93	8.44	490-1384-2-ND	4,000	8.00/M	GRM1885C1H3R3CZ01D
	C0G (NP0)	50	3.6pF	±.25pF	0.8	490-1385-1-ND	.50	2.93	8.44	490-1385-2-ND	4,000	8.00/M	GRM1885C1H3R6CZ01D
	C0G (NP0)	50	3.9pF	±.25pF	0.8	490-1386-1-ND	.50	2.93	8.44	490-1386-2-ND	4,000	8.00/M	GRM1885C1H3R9CZ01D
	C0G (NP0)	50	4.0pF	±.25pF	0.8	490-1387-1-ND	.37	2.21	6.38	490-1387-2-ND	4,000	6.00/M	GRM1885C1H4R0CZ01D
	C0G (NP0)	50	4.3pF	±.25pF	0.8	490-1388-1-ND	.50	2.93	8.44	490-1388-2-ND	4,000	8.00/M	GRM1885C1H4R3CZ01D
	C0G (NP0)	50	4.7pF	±.25pF	0.8	490-1389-1-ND	.50	2.93	8.44	490-1389-2-ND	4,000	8.00/M	GRM1885C1H4R7CZ01D
	C0G (NP0)	50	5.0pF	±.25pF	0.8	490-1390-1-ND	.38	2.22	6.41	490-1390-2-ND	4,000	6.00/M	GRM1885C1H5R0CZ01D
	C0G (NP0)	50	5.1pF	±.5pF	0.8	490-1391-1-ND	.50	2.93	8.44	490-1391-2-ND	4,000	8.10/M	GRM1885C1H5R1DZ01D
	C0G (NP0)	50	5.6pF	±.5pF	0.8	490-1392-1-ND	.50	2.93	8.44	490-1392-2-ND	4,000	8.00/M	GRM1885C1H5R6DZ01D
	C0G (NP0)	50	6.0pF	±.5pF	0.8	490-1393-1-ND	.37	2.21	6.38	490-1393-2-ND	4,000	6.00/M	GRM1885C1H6R0DZ01D
	C0G (NP0)	50	6.2pF	±.5pF	0.8	490-1394-1-ND	.50	2.93	8.44	490-1394-2-ND	4,000	8.00/M	GRM1885C1H6R2DZ01D
	C0G (NP0)	50	6.8pF	±.25pF	0.8	490-1395-1-ND	.78	4.62	13.31	490-1395-2-ND	4,000	13.00/M	GRM1885C1H6R8CZ01D
	C0G (NP0)	50	6.8pF	±.5pF	0.8	490-1396-1-ND	.50	2.93	8.44	490-1396-2-ND	4,000	8.10/M	GRM1885C1H6R8DZ01D
	C0G (NP0)	50	7.0pF	±.5pF	0.8	490-1397-1-ND	.37	2.21	6.38	490-1397-2-ND	4,000	6.00/M	GRM1885C1H7R0DZ01D
	C0G (NP0)	50	7.5pF	±.5pF	0.8	490-1398-1-ND	.50	2.93	8.44	490-1398-2-ND	4,000	8.00/M	GRM1885C1H7R5DZ01D
	C0G (NP0)	50	8.0pF	±.5pF	0.8	490-1399-1-ND	.37	2.21	6.38	490-1399-2-ND	4,000	6.00/M	GRM1885C1H8R0DZ01D
	C0G (NP0)	50	8.2pF	±.5pF	0.8	490-1400-1-ND	.50	2.93	8.44	490-1400-2-ND	4,000	8.10/M	GRM1885C1H8R2DZ01D
	C0G (NP0)	50	9.0pF	±.5pF	0.8	490-1401-1-ND	.37	2.21	6.38	490-1401-2-ND	4,000	6.00/M	GRM1885C1H9R0DZ01D
	C0G (NP0)	50	9.1pF	±.5pF	0.8	490-1402-1-ND	.50	2.93	8.44	490-1402-2-ND	4,000	8.00/M	GRM1885C1H9R1DZ01D
	C0G (NP0)	50	10pF	±5%	0.8	490-1403-1-ND	.37	2.21	6.38	490-1403-2-ND	4,000	6.00/M	GRM1885C1H100JA01D
	C0G (NP0)	50	11pF	±5%	0.8	490-1404-1-ND	.53	3.12	9.00	490-1404-2-ND	4,000	8.64/M	GRM1885C1H110JA01D
	C0G (NP0)	50	12pF	±5%	0.8	490-1405-1-ND	.37	2.21	6.38	490-1405-2-ND	4,000	6.00/M	GRM1885C1H120JA01D
	C0G (NP0)	50	13pF	±5%	0.8	490-1406-1-ND	.53	3.12	9.00	490-1406-2-ND	4,000	9.00/M	GRM1885C1H130JA01D
	C0G (NP0)	50	15pF	±5%	0.8	490-1407-1-ND	.37	2.21	6.38	490-1407-2-ND	4,000	6.00/M	GRM1885C1H150JA01D
	C0G (NP0)	50	16pF	±5%	0.8	490-1408-1-ND	.53	3.12	9.00	490-1408-2-ND	4,000	8.64/M	GRM1885C1H160JA01D
	C0G (NP0)	50	18pF	±5%	0.8	490-1409-1-ND	.37	2.21	6.38	490-1409-2-ND	4,000	6.00/M	GRM1885C1H180JA01D
	C0G (NP0)	50	20pF	±5%	0.8	490-1410-1-ND	.48	2.86	8.25	490-1410-2-ND	4,000	8.00/M	GRM1885C1H200JA01D
	C0G (NP0)	50	22pF	±5%	0.8	490-1411-1-ND	.38	2.22	6.41	490-1411-2-ND	4,000	6.00/M	GRM1885C1H220JA01D
	C0G (NP0)	50	24pF	±5%	0.8	490-1412-1-ND	.53	3.12	9.00	490-1412-2-ND	4,000	9.00/M	GRM1885C1H240JA01D
	C0G (NP0)	50	27pF	±5%	0.8	490-1413-1-ND	.37	2.21	6.38	490-1413-2-ND	4,000	6.00/M	GRM1885C1H270JA01D
	C0G (NP0)	50	30pF	±5%	0.8	490-1414-1-ND	.53	3.12	9.00	490-1414-2-ND	4,000	9.00/M	GRM1885C1H300JA01D
	C0G (NP0)	50	33pF	±5%	0.8	490-1415-1-ND	.26	1.56	4.50	490-1415-2-ND	4,000	4.00/M	GRM1885C1H330JA01D
	C0G (NP0)	50	36pF	±5%	0.8	490-1416-1-ND	.53	3.12	9.00	490-1416-2-ND	4,000	9.00/M	GRM1885C1H360JA01D
	C0G (NP0)	50	39pF	±5%	0.8	490-1417-1-ND	.37	2.21	6.38	490-1417-2-ND	4,000	6.00/M	GRM1885C1H390JA01D
	C0G (NP0)	50	43pF	±5%	0.8	490-1418-1-ND	.53	3.12	9.00	490-1418-2-ND	4,000	8.64/M	GRM1885C1H430JA01D
	C0G (NP0)	50	47pF	±5%	0.8	490-1419-1-ND	.26	1.56	4.50	490-1419-2-ND	4,000	4.00/M	GRM1885C1H470JA01D
	C0G (NP0)	50	51pF	±5%	0.8	490-1420-1-ND	.53	3.12	9.00	490-1420-2-ND	4,000	8.64/M	GRM1885C1H510JA01D
	C0G (NP0)	50	56pF	±5%	0.8	490-1421-1-ND	.37	2.21	6.38	490-1421-2-ND	4,000	6.00/M	GRM1885C1H560JA01D
	C0G (NP0)	50	62pF	±5%	0.8	490-1422-1-ND	.53	3.12	9.00	490-1422-2-ND	4,000	9.00/M	GRM1885C1H620JA01D
	C0G (NP0)	50	68pF	±5%	0.8	490-1423-1-ND	.37	2.21	6.38	490-1423-2-ND	4,000	6.00/M	GRM1885C1H680JA01D
	C0G (NP0)	50	75pF	±5%	0.8	490-1424-1-ND	.53	3.12	9.00	490-1424-2-ND	4,000	9.00/M	GRM1885C1H750JA01D
	C0G (NP0)	50	82pF	±5%	0.8	490-1425-1-ND	.37	2.21	6.38	490-1425-2-ND	4,000	6.00/M	GRM1885C1H820JA01D
	C0G (NP0)	50	91pF	±5%	0.8	490-1426-1-ND	.53	3.12	9.00	490-1426-2-ND	4,000	9.00/M	GRM1885C1H910JA01D
	C0G (NP0)	50	100pF	±5%	0.8	490-1427-1-ND	.28	1.66	4.78	490-1427-2-ND	4,000	5.00/M	GRM1885C1H101JA01D
	C0G (NP0)	50	110pF	±5%	0.8	490-1428-1-ND	.77	4.55	13.13	490-1428-2-ND	4,000	13.00/M	GRM1885C1H111JA01D
	C0G (NP0)	50	120pF	±5%	0.8	490-1429-1-ND	.43	2.54	7.31	490-1429-2-ND	4,000	7.00/M	GRM1885C1H121JA01D
	C0G (NP0)	50	130pF	±5%	0.8	490-1430-1-ND	.80	4.75	13.69	490-1430-2-ND	4,000	13.00/M	GRM1885C1H131JA01D
	C0G (NP0)	50	150pF	±5%	0.8	490-1431-1-ND	.43	2.54	7.31	490-1431-2-ND	4,000	7.00/M	GRM1885C1H151JA01D
	C0G (NP0)	50	160pF	±5%	0.8	490-1432-1-ND	.80	4.75	13.69	490-1432-2-ND	4,000	13.00/M	GRM1885C1H161JA01D
	C0G (NP0)	50	180pF	±5%	0.8	490-1433-1-ND	.43	2.54	7.31	490-1433-2-ND	4,000	7.00/M	GRM1885C1H181JA01D
	C0G (NP0)	50	200pF	±5%	0.8	490-1434-1-ND	.81	4.81	13.88	490-1434-2-ND	4,000	13.32/M	GRM1885C1H201JA01D
	C0G (NP0)	50	220pF	±5%	0.8	490-1435-1-ND	.37	2.21	6.38	490-1435-2-ND	4,000	6.00/M	GRM1885C1H221JA01D
	C0G (NP0)	50	240pF	±5%	0.8	490-1436-1-ND	.84	4.94	14.25	490-1436-2-ND	4,000	13.68/M	GRM1885C1H241JA01D
	C0G (NP0)	50	270pF	±5%	0.8	490-1437-1-ND	.44	2.60	7.50	490-1437-2-ND	4,000	7.00/M	GRM1885C1H271JA01D
	C0G (NP0)	50	300pF	±5%	0.8	490-1438-1-ND	.84	4.94	14.25	490-1438-2-ND	4,000	13.68/M	GRM1885C1H301JA01D
	C0G (NP0)	50	330pF	±5%	0.8	490-1439-1-ND	.47	2.80	8.06	490-1439-2-ND	4,000	8.00/M	GRM1885C1H331JA01D
	C0G (NP0)	50	360pF	±5%	0.8	490-1440-1-ND	.86	5.07	14.63	490-1440-2-ND	4,000	14.00/M	GRM1885C1H361JA01D
	C0G (NP0)	50	390pF	±5%	0.8	490-1441-1-ND	.64	3.77	10.88	490-1441-2-ND	4,000	10.00/M	GRM1885C1H391JA01D
	C0G (NP0)	50	430pF	±5%	0.8	490-1442-1-ND	.86	5.07	14.63	490-1442-2-ND	4,000	14.04/M	GRM1885C1H431JA01D
	C0G (NP0)	50	470pF	±5%	0.8	490-1443-1-ND	.50	2.93	8.44	490-1443-2-ND	4,000	8.00/M	GRM1885C1H471JA01D
	C0G (NP0)	50	510pF	±5%	0.8	490-1444-1-ND	.94	5.53	15.94	490-1444-2-ND	4,000	15.00/M	GRM1885C1H511JA01D
	C0G (NP0)	50	560pF	±5%	0.8	490-1445-1-ND	.61	3.59	10.37	490-1445-2-ND	4,000	10.00/M	GRM1885C1H561JA01D
	C0G (NP0)	50	620pF	±5%	0.8	490-1446-1-ND	.98	5.79	16.69	490-1446-2-ND	4,000	16.02/M	GRM1885C1H621JA01D
	C0G (NP0)	50	680pF	±5%	0.8	490-1447-1-ND	.61	3.59	10.37	490-1447-2-ND	4,000	10.00/M	GRM1885C1H681JA01D
	C0G (NP0)	50	750pF	±5%	0.8	490-1448-1-ND	1.03	6.11	17.63	490-1448-2-ND	4,000	17.00/M	GRM1885C1H751JA01D
	C0G (NP0)	50	820pF	±5%	0.8	490-1449-1-ND	.92	5.46	15.75	490-1449-2-ND	4,000	15.00/M	GRM1885C1H821JA01D
	C0G (NP0)	50	910pF	±5%	0.8	490-1450-1-ND	1.08	6.37	18.38	490-1450-2-ND	4,000	17.64/M	GRM1885C1H911JA01D
	C0G (NP0)	50	1000pF	±5%	0.8	490-1451-1-ND	.43	2.54	7.31	490-1451-2-ND	4,000	7.00/M	GRM1885C1H102JA01D
	C0G (NP0)	50	1100pF	±5%	0.8	490-1452-1-ND	.77	4.55	13.13	490-1452-2-ND	4,000	12.60/M	GRM1885C1H112JA01D
	C0G (NP0)	50	1200pF	±5%	0.8	490-1453-1-ND	.76	4.49	12.94	490-1453-2-ND	4,000	12.00/M	GRM1885C1H122JA01D
	C0G (NP0)	50	1300pF	±5%	0.8	490-1454-1-ND	.78	4.62	13.31	490-1454-2-ND	4,000	12.78/M	GRM1885C1H132JA01D
	C0G (NP0)	50	1500pF	±5%	0.8	490-1455-1-ND	.75	4.42	12.75	490-1455-2-ND	4,000	12.00/M	GRM1885C1H152JA01D
	C0G (NP0)	50	1600pF	±5%	0.8	490-1456-1-ND	.84	4.94	14.25	490-1456-2-ND	4,000	13.68/M	GRM1885C1H162JA01D
	C0G (NP0)	50	1800pF	±5%	0.8	490-1457-1-ND	.81	4.81	13.88	490-1457-2-ND	4,000	13.00/M	GRM1885C1H182JA01D
	C0G (NP0)	50	2000pF	±5%	0.8	490-1458-1-ND	.83	4.88	14.06	490-1458-2-ND	4,000	14.00/M	GRM1885C1H202JA01D
	C0G (NP0)	50	2200pF	±5%	0.8	490-1459-1-ND	.78	4.62	13.31	490-1459-2-ND	4,000	13.00/M	GRM1885C1H222JA01D
	C0G (NP0)	50	2400pF	±5%	0.8	490-3282-1-ND	1.00	5.92	17.06	490-3282-2-ND	4,000	16.00/M	GRM1885C1H242JA01D
	C0G (NP0)	50	2700pF	±5%	0.8	490-3283-1-ND	.97	5.72	16.50	490-3283-2-ND	4,000	16.00/M	GRM1885C1H272JA01D
	X7R	250	220pF	±10%	0.8	490-3521-1-ND	1.06	6.24	18.00	490-3521-2-ND	4,000	17.00/M	GRM188R72E221KW07D
	X7R	250	330pF	±10%	0.8	490-3522-1-ND	1.06	6.24	18.00	490-3522-2-ND	4,000	17.00/M	GRM188R72E331KW07D
	X7R	250	470pF	±10%	0.8	490-3523-1-ND	1.06	6.24	18.00	490-3523-2-ND	4,000	17.00/M	GRM188R72E471KW07D
	X7R	250	680pF	±10%	0.8	490-3524-1-ND	1.06	6.24	18.00	490-3524-2-ND	4,000	17.00/M	GRM188R72E681KW07D
	X7R	250	1000pF	±10%	0.8	490-3526-1-ND	1.06	6.24	18.00	490-3526-2-ND	4,000	17.00/M	GRM188R72E102KW07D
	X7R	250	1500pF	±10%	0.8	490-3528-1-ND	1.06	6.24	18.00	490-3528-2-ND	4,000	17.00/M	GRM188R72E152KW07D
	X7R	250	2200pF	±10%	0.8	490-3530-1-ND	1.06	6.24	18.00	490-3530-2-ND	4,000	17.00/M	GRM188R72E222KW07D
	X7R	100	220pF	±10%	0.8	490-1460-1-ND	.52	3.06	8.81	490-1460-2-ND	4,000	8.00/M	GRM188R72A221KA01D
	X7R	100	220pF	±20%	0.8	490-1461-1-ND	.64	3.77	10.88	490-1461-2-ND	4,000	10.00/M	GRM188R72A221MA01D
	X7R	100	270pF	±10%	0.8	490-1462-1-ND	.64	3.77	10.88	490-1462-2-ND	4,000	10.00/M	GRM188R72A271KA01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	100	330pF	±10%	0.8	490-1464-1-ND	.54	3.19	9.19	490-1464-2-ND	4,000	9.00/M	GRM188R72A331KA01D
	X7R	100	330pF	±20%	0.8	490-1463-1-ND	.64	3.77	10.88	490-1463-2-ND	4,000	10.00/M	GRM188R72A331MA01D
	X7R	100	390pF	±10%	0.8	490-1465-1-ND	.64	3.77	10.88	490-1465-2-ND	4,000	10.00/M	GRM188R72A391KA01D
	X7R	100	470pF	±10%	0.8	490-1467-1-ND	.54	3.19	9.19	490-1467-2-ND	4,000	9.00/M	GRM188R72A471KA01D
	X7R	100	470pF	±20%	0.8	490-1466-1-ND	.64	3.77	10.88	490-1466-2-ND	4,000	10.00/M	GRM188R72A471MA01D
	X7R	100	560pF	±10%	0.8	490-1468-1-ND	.64	3.77	10.88	490-1468-2-ND	4,000	10.00/M	GRM188R72A561KA01D
	X7R	100	680pF	±10%	0.8	490-1469-1-ND	.54	3.19	9.19	490-1469-2-ND	4,000	9.00/M	GRM188R72A681KA01D
	X7R	100	680pF	±20%	0.8	490-1470-1-ND	.67	3.97	11.44	490-1470-2-ND	4,000	11.00/M	GRM188R72A681MA01D
	X7R	100	820pF	±10%	0.8	490-1471-1-ND	.64	3.77	10.88	490-1471-2-ND	4,000	10.00/M	GRM188R72A821KA01D
	X7R	100	1000pF	±10%	0.8	490-1472-1-ND	.43	2.54	7.31	490-1472-2-ND	4,000	7.00/M	GRM188R72A102KA01D
	X7R	100	1000pF	±20%	0.8	490-1473-1-ND	.50	2.93	8.44	490-1473-2-ND	4,000	8.00/M	GRM188R72A102MA01D
	X7R	100	1200pF	±10%	0.8	490-1474-1-ND	.55	3.25	9.38	490-1474-2-ND	4,000	9.00/M	GRM188R72A122KA01D
	X7R	100	1500pF	±10%	0.8	490-1475-1-ND	.54	3.19	9.19	490-1475-2-ND	4,000	9.00/M	GRM188R72A152KA01D
	X7R	100	1500pF	±20%	0.8	490-1476-1-ND	.54	3.19	9.19	490-1476-2-ND	4,000	9.00/M	GRM188R72A152MA01D
	X7R	100	1800pF	±10%	0.8	490-1477-1-ND	.64	3.77	10.88	490-1477-2-ND	4,000	10.44/M	GRM188R72A182KA01D
	X7R	100	2200pF	±10%	0.8	490-1478-1-ND	.46	2.73	7.88	490-1478-2-ND	4,000	8.00/M	GRM188R72A222KA01D
	X7R	100	2200pF	±20%	0.8	490-1479-1-ND	.53	3.12	9.00	490-1479-2-ND	4,000	9.00/M	GRM188R72A222MA01D
	X7R	100	2700pF	±10%	0.8	490-1480-1-ND	.67	3.97	11.44	490-1480-2-ND	4,000	11.00/M	GRM188R72A272KA01D
	X7R	100	3300pF	±10%	0.8	490-1481-1-ND	.48	2.86	8.25	490-1481-2-ND	4,000	8.00/M	GRM188R72A332KA01D
	X7R	100	3300pF	±20%	0.8	490-1482-1-ND	.54	3.19	9.19	490-1482-2-ND	4,000	9.00/M	GRM188R72A332MA01D
	X7R	100	22000pF	±10%	0.8	490-3284-1-ND	.77	4.55	13.13	490-3284-2-ND	4,000	13.00/M	GRM188R72A223KAC4D
	X7R	100	.1µF	±10%	0.8	490-3285-1-ND	1.90	11.25	32.44	490-3285-2-ND	4,000	31.00/M	GRM188R72A104KA35D
	X7R	50	220pF	±10%	0.8	490-1483-1-ND	.46	2.73	7.88	490-1483-2-ND	4,000	8.00/M	GRM188R71H221KA01D
	X7R	50	220pF	±20%	0.8	490-1484-1-ND	.53	3.12	9.00	490-1484-2-ND	4,000	9.00/M	GRM188R71H221MA01D
	X7R	50	270pF	±10%	0.8	490-1485-1-ND	.55	3.25	9.38	490-1485-2-ND	4,000	9.00/M	GRM188R71H271KA01D
	X7R	50	330pF	±10%	0.8	490-1486-1-ND	.48	2.86	8.25	490-1486-2-ND	4,000	8.00/M	GRM188R71H331KA01D
	X7R	50	330pF	±20%	0.8	490-1487-1-ND	.55	3.25	9.38	490-1487-2-ND	4,000	9.00/M	GRM188R71H331MA01D
	X7R	50	390pF	±10%	0.8	490-1555-1-ND	.53	3.12	9.00	490-1555-2-ND	4,000	8.64/M	GRM188R71H391KA01D
	X7R	50	470pF	±10%	0.8	490-1489-1-ND	.43	2.54	7.31	490-1489-2-ND	4,000	7.00/M	GRM188R71H471KA01D
	X7R	50	470pF	±20%	0.8	490-1488-1-ND	.50	2.93	8.44	490-1488-2-ND	4,000	8.00/M	GRM188R71H471MA01D
	X7R	50	560pF	±10%	0.8	490-1490-1-ND	.53	3.12	9.00	490-1490-2-ND	4,000	8.64/M	GRM188R71H561KA01D
	X7R	50	680pF	±10%	0.8	490-1491-1-ND	.46	2.73	7.88	490-1491-2-ND	4,000	8.00/M	GRM188R71H681KA01D
	X7R	50	680pF	±20%	0.8	490-1492-1-ND	.57	3.38	9.75	490-1492-2-ND	4,000	9.00/M	GRM188R71H681MA01D
	X7R	50	820pF	±10%	0.8	490-1493-1-ND	.53	3.12	9.00	490-1493-2-ND	4,000	9.00/M	GRM188R71H821KA01D
	X7R	50	1000pF	±10%	0.8	490-1494-1-ND	.19	1.11	3.19	490-1494-2-ND	4,000	3.00/M	GRM188R71H102KA01D
	X7R	50	1000pF	±20%	0.8	490-1495-1-ND	.39	2.28	6.56	490-1495-2-ND	4,000	6.00/M	GRM188R71H102MA01D
	X7R	50	1200pF	±10%	0.8	490-1496-1-ND	.44	2.60	7.50	490-1496-2-ND	4,000	7.00/M	GRM188R71H122KA01D
	X7R	50	1500pF	±10%	0.8	490-1498-1-ND	.32	1.89	5.46	490-1498-2-ND	4,000	5.00/M	GRM188R71H152KA01D
	X7R	50	1500pF	±20%	0.8	490-1497-1-ND	.43	2.54	7.31	490-1497-2-ND	4,000	7.00/M	GRM188R71H152MA01D
	X7R	50	1800pF	±10%	0.8	490-1499-1-ND	.51	2.99	8.63	490-1499-2-ND	4,000	8.00/M	GRM188R71H182KA01D
	X7R	50	2200pF	±10%	0.8	490-1500-1-ND	.32	1.89	5.46	490-1500-2-ND	4,000	5.00/M	GRM188R71H222KA01D
	X7R	50	2200pF	±20%	0.8	490-1501-1-ND	.41	2.41	6.94	490-1501-2-ND	4,000	7.00/M	GRM188R71H222MA01D
	X7R	50	2700pF	±10%	0.8	490-1502-1-ND	.50	2.93	8.44	490-1502-2-ND	4,000	8.00/M	GRM188R71H272KA01D
	X7R	50	3300pF	±10%	0.8	490-1503-1-ND	.32	1.89	5.46	490-1503-2-ND	4,000	5.00/M	GRM188R71H332KA01D
	X7R	50	3300pF	±20%	0.8	490-1560-1-ND	.43	2.54	7.31	490-1560-2-ND	4,000	7.00/M	GRM188R71H332MA01D
	X7R	50	3900pF	±10%	0.8	490-1504-1-ND	.55	3.25	9.38	490-1504-2-ND	4,000	9.00/M	GRM188R71H392KA01D
	X7R	50	4700pF	±10%	0.8	490-1506-1-ND	.24	1.40	4.03	490-1506-2-ND	4,000	4.00/M	GRM188R71H472KA01D
	X7R	50	4700pF	±20%	0.8	490-1505-1-ND	.42	2.47	7.13	490-1505-2-ND	4,000	7.00/M	GRM188R71H472MA01D
	X7R	50	8200pF	±10%	0.8	490-1510-1-ND	.62	3.64	10.50	490-1510-2-ND	4,000	10.00/M	GRM188R71H822KA01D
	X7R	50	6800pF	±20%	0.8	490-1509-1-ND	.43	2.54	7.31	490-1509-2-ND	4,000	7.00/M	GRM188R71H682MA01D
	X7R	50	5600pF	±10%	0.8	490-1507-1-ND	.59	3.51	10.13	490-1507-2-ND	4,000	10.00/M	GRM188R71H562KA01D
	X7R	50	6800pF	±10%	0.8	490-1508-1-ND	.36	2.15	6.19	490-1508-2-ND	4,000	6.00/M	GRM188R71H682KA01D
	X7R	50	10000pF	±10%	0.8	490-1512-1-ND	.17	1.01	2.91	490-1512-2-ND	4,000	3.00/M	GRM188R71H103KA01D
	X7R	50	10000pF	±20%	0.8	490-1511-1-ND	.34	2.02	5.81	490-1511-2-ND	4,000	6.00/M	GRM188R71H103MA01D
	X7R	50	12000pF	±10%	0.8	490-1513-1-ND	.62	3.64	10.50	490-1513-2-ND	4,000	10.00/M	GRM188R71H123KA01D
	X7R	50	15000pF	±10%	0.8	490-1514-1-ND	.40	2.34	6.75	490-1514-2-ND	4,000	6.00/M	GRM188R71H153KA01D
	X7R	50	15000pF	±20%	0.8	490-1515-1-ND	.50	2.93	8.44	490-1515-2-ND	4,000	8.00/M	GRM188R71H153MA01D
	X7R	50	18000pF	±10%	0.8	490-1516-1-ND	.64	3.77	10.88	490-1516-2-ND	4,000	10.00/M	GRM188R71H183KA01D
	X7R	50	22000pF	±10%	0.8	490-1517-1-ND	.45	2.67	7.69	490-1517-2-ND	4,000	7.00/M	GRM188R71H223KA01D
	X7R	50	22000pF	±20%	0.8	490-1518-1-ND	.58	3.45	9.94	490-1518-2-ND	4,000	10.00/M	GRM188R71H223MA01D
	X7R	50	33000pF	±10%	0.8	490-3286-1-ND	.58	3.45	9.94	490-3286-2-ND	4,000	10.00/M	GRM188R71H333KA61D
	X7R	50	47000pF	±10%	0.8	490-3287-1-ND	.53	3.15	9.09	490-3287-2-ND	4,000	9.00/M	GRM188R71H473KA61D
	X7R	50	68000pF	±10%	0.8	490-3288-1-ND	.69	4.10	11.81	490-3288-2-ND	4,000	11.00/M	GRM188R71H683KA93D
	X7R	50	.1µF	±10%	0.8	490-1519-1-ND	.37	2.21	6.38	490-1519-2-ND	4,000	6.00/M	GRM188R71H104KA93D
	X7R	25	10000pF	±10%	0.8	490-1520-1-ND	.21	1.24	3.56	490-1520-2-ND	4,000	3.00/M	GRM188R71E103KA01D
	X7R	25	33000pF	±10%	0.8	490-1521-1-ND	.50	2.93	8.44	490-1521-2-ND	4,000	8.00/M	GRM188R71E333KA01D
	X7R	25	47000pF	±10%	0.8	490-1522-1-ND	.52	3.06	8.81	490-1522-2-ND	4,000	8.00/M	GRM188R71E473KA01D
	X7R	25	68000pF	±10%	0.8	490-1523-1-ND	.52	3.06	8.81	490-1523-2-ND	4,000	8.00/M	GRM188R71E683KA01D
	X7R	25	.1µF	±10%	0.8	490-1524-1-ND	.19	1.11	3.19	490-1524-2-ND	4,000	3.00/M	GRM188R71E104KA01D
	X7R	25	.22µF	±10%	0.8	490-3290-1-ND	1.13	6.70	19.31	490-3290-2-ND	4,000	19.00/M	GRM188R71E224KA88D
	X7R	25	.47µF	±10%	0.8	490-3291-1-ND	1.32	7.80	22.50	490-3291-2-ND	4,000	22.00/M	GRM188R71E474KA12D
	X7R	25	1.0uF	±10%	0.8	490-5307-1-ND	2.92	17.28	49.84	490-5307-2-ND	4,000	48.00/M	GRM188R71E105KA12D
	X7R	16	10000pF	±10%	0.8	490-1525-1-ND	.39	2.28	6.56	490-1525-2-ND	4,000	6.00/M	GRM188R71C103KA01D
	X7R	16	12000pF	±10%	0.8	490-1526-1-ND	.62	3.64	10.50	490-1526-2-ND	4,000	10.00/M	GRM188R71C123KA01D
	X7R	16	22000pF	±10%	0.8	490-1527-1-ND	.42	2.47	7.13	490-1527-2-ND	4,000	7.00/M	GRM188R71C223KA01D
	X7R	16	33000pF	±10%	0.8	490-1528-1-ND	.50	2.93	8.44	490-1528-2-ND	4,000	8.00/M	GRM188R71C333KA01D
	X7R	16	47000pF	±10%	0.8	490-1529-1-ND	.38	2.26	6.53	490-1529-2-ND	4,000	6.00/M	GRM188R71C473KA01D
	X7R	16	56000pF	±10%	0.8	490-1530-1-ND	1.00	5.92	17.06	490-1530-2-ND	4,000	16.00/M	GRM188R71C563KA01D
	X7R	16	68000pF	±10%	0.8	490-1531-1-ND	.52	3.06	8.81	490-1531-2-ND	4,000	8.00/M	GRM188R71C683KA01D
	X7R	16	.1µF	±10%	0.8	490-1532-1-ND	.18	1.04	3.00	490-1532-2-ND	4,000	3.00/M	GRM188R71C104KA01D
	X7R	16	.15µF	±10%	0.8	490-3292-1-ND	.76	4.49	12.94	490-3292-2-ND	4,000	12.00/M	GRM188R71C154KA01D
	X7R	16	.22µF	±10%	0.8	490-3293-1-ND	.91	5.40	15.56	490-3293-2-ND	4,000	15.00/M	GRM188R71C224KA01D
	X7R	16	.33µF	±10%	0.8	490-3294-1-ND	1.07	6.31	18.19	490-3294-2-ND	4,000	17.00/M	GRM188R71C334KA01D
	X7R	16	.47µF	±10%	0.8	490-3295-1-ND	1.11	6.57	18.94	490-3295-2-ND	4,000	18.00/M	GRM188R71C474KA88D
	X7R	16	1.0µF	±10%	0.8	490-3900-1-ND	3.52	20.80	60.00	490-3900-2-ND	4,000	58.00/M	GRM188R71C105KA12D
	X7R	10	.15µF	±10%	0.8	490-1533-1-ND	.76	4.49	12.94	490-1533-2-ND	4,000	12.00/M	GRM188R71A154KA01D
	X7R	10	.15µF	±20%	0.8	490-1534-1-ND	.76	4.49	12.94	490-1534-2-ND	4,000	12.00/M	GRM188R71A154MA01D
	X7R	10	.22µF	±10%	0.8	490-1535-1-ND	.63	3.72	10.73	490-1535-2-ND	4,000	10.00/M	GRM188R71A224KA01D
	X7R	10	1.0µF	±10%	0.8	490-3899-1-ND	3.54	20.93	60.38	490-3899-2-ND	4,000	58.00/M	GRM188R71A105KA61D
	X7R	10	2.2µF	±10%	0.8	490-4520-1-ND	4.17	24.64	71.06	490-4520-2-ND	4,000	68.00/M	GRM188R71A225KE15D
	X7R	6.3	1.0µF	±10%	0.8	490-3898-1-ND	3.54	20.93	60.38	490-3898-2-ND	4,000	58.00/M	GRM188R70J105KA01D
	X5R	25	1.0µF	±10%	0.8	490-3897-1-ND	.79	4.64	13.39	490-3897-2-ND	4,000	13.00/M	GRM188R61E105KA12D
	X5R	16	1.0µF	±10%	0.5	490-3894-1-ND	1.42	8.39	24.19	490-3894-2-ND	4,000	23.00/M	GRM185R61C105KE44D
	X5R	16	1.0µF	±10%	0.8	490-1536-1-ND	.56	3.32	9.56	490-1536-2-ND	4,000	9.00/M	GRM188R61C105KA93D
	X5R	16	2.2µF	±10%	0.8	490-3296-1-ND	1.84	10.86	31.31	490-3296-2-ND	4,000	30.00/M	GRM188R61C225KE15D
	X5R	10	.33µF	±10%	0.8	490-1538-1-ND	1.21	7.15	20.63	490-1538-2-ND	4,000	20.00/M	GRM188R61A334KA61D
	X5R	10	.47µF	±10%	0.8	490-1539-1-ND	.86	5.07	14.63	490-1539-2-ND	4,000	14.00/M	GRM188R61A474KA61D
	X5R	10	.47µF	±20%	0.8	490-1540-1-ND	1.08	6.37	18.38	490-1540-2-ND	4,000	18.00/M	GRM188R61A474MA61D
	X5R	10	.68µF	±10%	0.8	490-1541-1-ND	.95	5.59	16.13	490-1541-2-ND	4,000	15.00/M	GRM188R61A684KA61D
	X5R	10	1.0µF	±10%	0.5	490-3893-1-ND	1.42	8.39	24.19	490-3893-2-ND	4,000	23.00/M	GRM185R61A105KE36D
	X5R	10	1.0µF	±10%	0.8	490-1543-1-ND	.38	2.24	6.47	490-1543-2-ND	4,000	6.00/M	GRM188R61A105KA61D

(Continued)

Size Code	Type	WV DC	Capac-itance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	X5R	10	1.0µF	±20%	0.8	490-1544-1-ND	.56	3.32	9.56	490-1544-2-ND	4,000	9.00/M	GRM188R61A105MA61D
	X5R	10	2.2µF	±10%	0.8	490-1545-1-ND	1.36	8.06	23.25	490-1545-2-ND	4,000	22.00/M	GRM188R61A225KE34D
	X5R	10	2.2µF	±20%	0.8	490-1546-1-ND	1.28	7.54	21.75	490-1546-2-ND	4,000	21.00/M	GRM188R61A225ME34D
	X5R	6.3	.33µF	±10%	0.8	490-1547-1-ND	1.21	7.15	20.63	490-1547-2-ND	4,000	20.00/M	GRM188R60J334KA01D
	X5R	6.3	.47µF	±10%	0.8	490-1548-1-ND	1.08	6.37	18.38	490-1548-2-ND	4,000	18.00/M	GRM188R60J474KA01D
	X5R	6.3	1.0µF	±10%	0.8	490-1550-1-ND	.49	2.90	8.36	490-1550-2-ND	4,000	8.00/M	GRM188R60J105KA01D
	X5R	6.3	1.0µF	±20%	0.8	490-1549-1-ND	.54	3.19	9.19	490-1549-2-ND	4,000	9.00/M	GRM188R60J105MA01D
	X5R	6.3	2.2µF	±10%	0.5	490-3267-1-ND	1.60	9.43	27.19	490-3267-2-ND	4,000	26.00/M	GRM185R60J225KE26D
	X5R	6.3	2.2µF	±10%	0.8	490-1552-1-ND	1.26	7.43	21.43	490-1552-2-ND	4,000	21.00/M	GRM188R60J225KE19D
	X5R	6.3	2.2µF	±20%	0.8	490-1551-1-ND	1.82	10.73	30.94	490-1551-2-ND	4,000	30.00/M	GRM188R60J225ME01D
	X5R	6.3	4.7µF	±10%	0.8	490-3297-1-ND	1.45	8.59	24.77	490-3297-2-ND	4,000	24.00/M	GRM188R60J475KE19D
	X5R	6.3	4.7µF	±20%	0.8	490-5421-1-ND ***NEW!***	1.68	9.95	28.69	490-5421-2-ND ***NEW!***	4,000	28.00/M	GRM188R60J475ME19D
	X5R	6.3	10µF	±20%	0.8	490-3896-1-ND	3.69	21.78	62.81	490-3896-2-ND	4,000	60.00/M	GRM188R60J106ME47D
	X5R	4	4.7µF	±20%	0.5	490-3891-1-ND	2.60	15.34	44.25	490-3891-2-ND	4,000	42.00/M	GRM185R60G475ME15D
	X5R	4	10µF	±20%	0.8	490-3298-1-ND	4.95	29.25	84.38	490-3298-2-ND	4,000	81.00/M	GRM188R60G106ME47D
	X5R	4	22µF	±20%	0.8	490-5526-1-ND ***NEW!***	9.47	55.97	161.44	490-5526-2-ND ***NEW!***	4,000	155.00/M	GRM188R60G226MEA0L
	X6S	10	2.2µF	±10%	0.8	490-4521-1-ND	1.36	8.06	23.25	490-4521-2-ND	4,000	22.00/M	GRM188C81A225KE34D
	Y5V	100	2200pF	+80, -20%	0.8	490-1553-1-ND	1.42	8.39	24.19	490-1553-2-ND	4,000	23.00/M	GRM188F52A222ZD01D
	Y5V	100	3300pF	+80, -20%	0.8	490-1554-1-ND	.55	3.25	9.38	490-1554-2-ND	4,000	9.00/M	GRM188F52A332ZD01D
	Y5V	50	1000pF	+80, -20%	0.8	490-1556-1-ND	.45	2.67	7.69	490-1556-2-ND	4,000	7.38/M	GRM188F51H102ZA01D
	Y5V	50	1500pF	+80, -20%	0.8	490-1557-1-ND	.54	3.19	9.19	490-1557-2-ND	4,000	9.00/M	GRM188F51H152ZA01D
	Y5V	50	2200pF	+80, -20%	0.8	490-1558-1-ND	.45	2.67	7.69	490-1558-2-ND	4,000	7.38/M	GRM188F51H222ZA01D
	Y5V	50	3300pF	+80, -20%	0.8	490-1559-1-ND	.54	3.19	9.19	490-1559-2-ND	4,000	9.00/M	GRM188F51H332ZA01D
	Y5V	50	6800pF	+80, -20%	0.8	490-1562-1-ND	.62	3.64	10.50	490-1562-2-ND	4,000	10.00/M	GRM188F51H682ZA01D
	Y5V	50	4700pF	+80, -20%	0.8	490-1561-1-ND	.45	2.67	7.69	490-1561-2-ND	4,000	7.00/M	GRM188F51H472ZA01D
	Y5V	50	10000pF	+80, -20%	0.8	490-1563-1-ND	.39	2.28	6.56	490-1563-2-ND	4,000	6.00/M	GRM188F51H103ZA01D
	Y5V	50	15000pF	+80, -20%	0.8	490-1564-1-ND	.55	3.25	9.38	490-1564-2-ND	4,000	9.00/M	GRM188F51H153ZA01D
	Y5V	50	22000pF	+80, -20%	0.8	490-1565-1-ND	.36	2.15	6.19	490-1565-2-ND	4,000	6.00/M	GRM188F51H223ZA01D
	Y5V	50	33000pF	+80, -20%	0.8	490-1566-1-ND	.64	3.77	10.88	490-1566-2-ND	4,000	10.00/M	GRM188F51H333ZA01D
	Y5V	50	47000pF	+80, -20%	0.8	490-1567-1-ND	.35	2.08	6.00	490-1567-2-ND	4,000	6.00/M	GRM188F51H473ZA01D
	Y5V	50	.1µF	+80, -20%	0.8	490-1568-1-ND	.27	1.59	4.59	490-1568-2-ND	4,000	4.00/M	GRM188F51H104ZA01D
	Y5V	50	.22µF	+80, -20%	0.8	490-1569-1-ND	.76	4.49	12.94	490-1569-2-ND	4,000	12.00/M	GRM188F51H224ZA01D
	Y5V	25	1000pF	+80, -20%	0.8	490-1570-1-ND	.45	2.67	7.69	490-1570-2-ND	4,000	7.38/M	GRM188F51E102ZA01D
	Y5V	25	4700pF	+80, -20%	0.8	490-1571-1-ND	.45	2.67	7.69	490-1571-2-ND	4,000	7.00/M	GRM188F51E472ZA01D
	Y5V	25	10000pF	+80, -20%	0.8	490-1572-1-ND	.39	2.28	6.56	490-1572-2-ND	4,000	6.30/M	GRM188F51E103ZA01D
	Y5V	25	33000pF	+80, -20%	0.8	490-1573-1-ND	.53	3.12	9.00	490-1573-2-ND	4,000	9.00/M	GRM188F51E333ZA01D
	Y5V	25	47000pF	+80, -20%	0.8	490-1574-1-ND	.47	2.80	8.06	490-1574-2-ND	4,000	8.00/M	GRM188F51E473ZA01D
	Y5V	25	.1µF	+80, -20%	0.8	490-1575-1-ND	.18	1.05	3.02	490-1575-2-ND	4,000	3.00/M	GRM188F51E104ZA01D
	Y5V	25	.22µF	+80, -20%	0.8	490-3299-1-ND	.76	4.49	12.94	490-3299-2-ND	4,000	12.00/M	GRM188F51E224ZA01D
	Y5V	25	.47µF	+80, -20%	0.8	490-3300-1-ND	.74	4.36	12.56	490-3300-2-ND	4,000	12.00/M	GRM188F51E474ZA01D
	Y5V	25	1.0µF	+80, -20%	0.8	490-3895-1-ND	.68	4.03	11.63	490-3895-2-ND	4,000	11.00/M	GRM188F51E105ZA12D
	Y5V	16	47000pF	+80, -20%	0.8	490-1576-1-ND	.47	2.80	8.06	490-1576-2-ND	4,000	8.00/M	GRM188F51C473ZA01D
	Y5V	16	.1µF	+80, -20%	0.8	490-1577-1-ND	.32	1.89	5.46	490-1577-2-ND	4,000	5.00/M	GRM188F51C104ZA01D
	Y5V	16	.15µF	+80, -20%	0.8	490-1578-1-ND	.72	4.23	12.19	490-1578-2-ND	4,000	12.00/M	GRM188F51C154ZA01D
	Y5V	16	.22µF	+80, -20%	0.8	490-3301-1-ND	.72	4.23	12.19	490-3301-2-ND	4,000	12.00/M	GRM188F51C224ZA01D
	Y5V	16	.33µF	+80, -20%	0.8	490-1579-1-ND	1.03	6.11	17.63	490-1579-2-ND	4,000	17.00/M	GRM188F51C334ZA01D
	Y5V	16	.47µF	+80, -20%	0.8	490-1580-1-ND	.63	3.71	10.69	490-1580-2-ND	4,000	10.00/M	GRM188F51C474ZA01D
	Y5V	16	.68µF	+80, -20%	0.8	490-1581-1-ND	.97	5.72	16.50	490-1581-2-ND	4,000	16.00/M	GRM188F51C684ZA01D
	Y5V	16	1.0µF	+80, -20%	0.8	490-1582-1-ND	.46	2.69	7.76	490-1582-2-ND	4,000	7.00/M	GRM188F51C105ZA01D
	Y5V	10	.47µF	+80, -20%	0.8	490-1583-1-ND	.78	4.62	13.31	490-1583-2-ND	4,000	13.00/M	GRM188F51A474ZA01D
	Y5V	10	.68µF	+80, -20%	0.8	490-1584-1-ND	.94	5.53	15.94	490-1584-2-ND	4,000	15.00/M	GRM188F51A684ZA01D
	Y5V	10	1.0µF	+80, -20%	0.8	490-1585-1-ND	.39	2.32	6.69	490-1585-2-ND	4,000	6.00/M	GRM188F51A105ZA01D
	Y5V	10	2.2µF	+80, -20%	0.8	490-1586-1-ND	1.05	6.18	17.81	490-1586-2-ND	4,000	17.00/M	GRM188F51A225ZE01D
	Y5V	10	4.7µF	+80, -20%	0.8	490-3302-1-ND	1.25	7.41	21.38	490-3302-2-ND	4,000	21.00/M	GRM188F51A475ZE20D
	Y5V	6.3	2.2µF	+80, -20%	0.8	490-1587-1-ND	1.06	6.24	18.00	490-1587-2-ND	4,000	17.00/M	GRM188F50J225ZE01D
	Y5V	6.3	4.7µF	+80, -20%	0.8	490-3303-1-ND	1.25	7.41	21.38	490-3303-2-ND	4,000	21.00/M	GRM188F50J475ZE20D
0805	C0G (NP0)	250	10pF	±5%	1.0	490-5530-1-ND ***NEW!***	2.90	17.16	49.50	490-5530-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E100JW01D
	C0G (NP0)	250	12pF	±5%	1.0	490-5531-1-ND ***NEW!***	2.90	17.16	49.50	490-5531-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E120JW01D
	C0G (NP0)	250	15pF	±5%	1.0	490-5532-1-ND ***NEW!***	2.90	17.16	49.50	490-5532-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E150JW01D
	C0G (NP0)	250	18pF	±5%	1.0	490-5533-1-ND ***NEW!***	2.90	17.16	49.50	490-5533-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E180JW01D
	C0G (NP0)	250	22pF	±5%	1.0	490-5534-1-ND ***NEW!***	2.90	17.16	49.50	490-5534-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E220JW01D
	C0G (NP0)	250	27pF	±5%	1.0	490-5535-1-ND ***NEW!***	2.90	17.16	49.50	490-5535-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E270JW01D
	C0G (NP0)	250	33pF	±5%	1.0	490-5536-1-ND ***NEW!***	2.90	17.16	49.50	490-5536-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E330JW01D
	C0G (NP0)	250	39pF	±5%	1.0	490-5537-1-ND ***NEW!***	2.90	17.16	49.50	490-5537-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E390JW01D
	C0G (NP0)	250	47pF	±5%	1.0	490-5538-1-ND ***NEW!***	2.90	17.16	49.50	490-5538-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E470JW01D
	C0G (NP0)	250	56pF	±5%	1.0	490-5539-1-ND ***NEW!***	2.90	17.16	49.50	490-5539-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E560JW01D
	C0G (NP0)	250	68pF	±5%	1.0	490-5540-1-ND ***NEW!***	2.90	17.16	49.50	490-5540-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E680JW01D
	C0G (NP0)	250	82pF	±5%	1.0	490-5541-1-ND ***NEW!***	2.90	17.16	49.50	490-5541-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E820JW01D
	C0G (NP0)	250	100pF	±5%	1.0	490-5542-1-ND ***NEW!***	2.90	17.16	49.50	490-5542-2-ND ***NEW!***	4,000	48.00/M	GRM21A5C2E101JW01D
	C0G (NP0)	100	10pF	±5%	0.85	490-1590-1-ND	2.23	13.20	38.06	490-1590-2-ND	4,000	37.00/M	GRM2195C2A100JZ01D
	C0G (NP0)	100	22pF	±5%	0.85	490-1591-1-ND	2.29	13.52	39.00	490-1591-2-ND	4,000	37.00/M	GRM2195C2A220JZ01D
	C0G (NP0)	100	33pF	±5%	0.85	490-1592-1-ND	2.29	13.52	39.00	490-1592-2-ND	4,000	37.00/M	GRM2195C2A330JZ01D
	C0G (NP0)	100	47pF	±5%	0.85	490-1593-1-ND	2.29	13.52	39.00	490-1593-2-ND	4,000	37.00/M	GRM2195C2A470JZ01D
	C0G (NP0)	100	56pF	±5%	0.85	490-1594-1-ND	2.29	13.52	39.00	490-1594-2-ND	4,000	37.00/M	GRM2195C2A560JZ01D
	C0G (NP0)	100	68pF	±5%	0.85	490-1595-1-ND	2.23	13.20	38.06	490-1595-2-ND	4,000	37.00/M	GRM2195C2A680JZ01D
	C0G (NP0)	100	75pF	±5%	0.85	490-1596-1-ND	2.23	13.20	38.06	490-1596-2-ND	4,000	37.00/M	GRM2195C2A750JZ01D
	C0G (NP0)	100	82pF	±5%	0.85	490-1597-1-ND	2.23	13.20	38.06	490-1597-2-ND	4,000	37.00/M	GRM2195C2A820JZ01D
	C0G (NP0)	100	91pF	±5%	0.85	490-1598-1-ND	2.77	16.38	47.25	490-1598-2-ND	4,000	45.36/M	GRM2195C2A910JZ01D
	C0G (NP0)	100	100pF	±5%	0.6	490-1599-1-ND	.99	5.85	16.88	490-1599-2-ND	4,000	16.00/M	GRM2165C2A101JA01D
	C0G (NP0)	100	110pF	±5%	0.6	490-1600-1-ND	1.08	6.37	18.38	490-1600-2-ND	4,000	18.00/M	GRM2165C2A111JA01D
	C0G (NP0)	100	120pF	±5%	0.6	490-1601-1-ND	1.06	6.24	18.00	490-1601-2-ND	4,000	17.00/M	GRM2165C2A121JA01D
	C0G (NP0)	100	130pF	±5%	0.6	490-1602-1-ND	1.08	6.37	18.38	490-1602-2-ND	4,000	17.64/M	GRM2165C2A131JA01D
	C0G (NP0)	100	150pF	±5%	0.6	490-1603-1-ND	1.06	6.24	18.00	490-1603-2-ND	4,000	17.00/M	GRM2165C2A151JA01D
	C0G (NP0)	100	160pF	±5%	0.6	490-1604-1-ND	1.08	6.37	18.38	490-1604-2-ND	4,000	18.00/M	GRM2165C2A161JA01D
	C0G (NP0)	100	180pF	±5%	0.6	490-1605-1-ND	1.06	6.24	18.00	490-1605-2-ND	4,000	17.00/M	GRM2165C2A181JA01D
	C0G (NP0)	100	200pF	±5%	0.6	490-1606-1-ND	1.08	6.37	18.38	490-1606-2-ND	4,000	18.00/M	GRM2165C2A201JA01D
	C0G (NP0)	100	220pF	±5%	0.6	490-1607-1-ND	1.17	6.89	19.88	490-1607-2-ND	4,000	19.00/M	GRM2165C2A221JA01D
	C0G (NP0)	100	240pF	±5%	0.6	490-1608-1-ND	1.31	7.74	22.31	490-1608-2-ND	4,000	21.00/M	GRM2165C2A241JA01D
	C0G (NP0)	100	270pF	±5%	0.6	490-1609-1-ND	1.25	7.41	21.38	490-1609-2-ND	4,000	21.00/M	GRM2165C2A271JA01D
	C0G (NP0)	100	330pF	±5%	0.6	490-1610-1-ND	1.42	8.39	24.19	490-1610-2-ND	4,000	23.00/M	GRM2165C2A331JA01D
	C0G (NP0)	100	390pF	±5%	0.6	490-3306-1-ND	1.44	8.52	24.56	490-3306-2-ND	4,000	24.00/M	GRM2165C2A391JA01D
	C0G (NP0)	100	470pF	±5%	0.6	490-1611-1-ND	1.57	9.30	26.81	490-1611-2-ND	4,000	26.00/M	GRM2165C2A471JA01D
	C0G (NP0)	100	560pF	±5%	0.6	490-1612-1-ND	1.60	9.43	27.19	490-1612-2-ND	4,000	26.00/M	GRM2165C2A561JA01D
	C0G (NP0)	100	680pF	±5%	0.85	490-1613-1-ND	1.69	10.01	28.88	490-1613-2-ND	4,000	28.00/M	GRM2195C2A681JA01D
	C0G (NP0)	100	820pF	±5%	0.85	490-3311-1-ND	1.69	10.01	28.88	490-3311-2-ND	4,000	28.00/M	GRM2195C2A821JA01D
	C0G (NP0)	100	1000pF	±5%	0.85	490-1614-1-ND	1.25	7.41	21.38	490-1614-2-ND	4,000	21.00/M	GRM2195C2A102JA01D
	C0G (NP0)	100	1200pF	±5%	0.85	490-3313-1-ND	1.27	7.48	21.56	490-3313-2-ND	4,000	21.00/M	GRM2195C2A122JA01D
	C0G (NP0)	100	1500pF	±5%	0.85	490-3314-1-ND	1.27	7.48	21.56	490-3314-2-ND	4,000	21.00/M	GRM2195C2A152JA01D
	C0G (NP0)	50	100pF	±5%	0.6	490-1615-1-ND	.66	3.90	11.25	490-1615-2-ND	4,000	11.00/M	GRM2165C1H101JA01D
	C0G (NP0)	50	150pF	±5%	0.6	490-3315-1-ND	.88	5.20	15.00	490-3315-2-ND	4,000	14.00/M	GRM2165C1H151JA01D

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Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0805	C0G (NP0)	50	220pF	±5%	0.6	490-1616-1-ND	1.02	6.05	17.44	490-1616-2-ND	4,000	17.00/M	GRM2165C1H221JA01D
	C0G (NP0)	50	330pF	±5%	0.6	490-3316-1-ND	1.17	6.89	19.88	490-3316-2-ND	4,000	19.00/M	GRM2165C1H331JA01D
	C0G (NP0)	50	470pF	±5%	0.6	490-1617-1-ND	1.52	8.97	25.88	490-1617-2-ND	4,000	25.00/M	GRM2165C1H471JA01D
	C0G (NP0)	50	620pF	±5%	0.6	490-1618-1-ND	1.66	9.82	28.31	490-1618-2-ND	4,000	27.00/M	GRM2165C1H621JA01D
	C0G (NP0)	50	680pF	±5%	0.6	490-1619-1-ND	1.60	9.43	27.19	490-1619-2-ND	4,000	26.00/M	GRM2165C1H681JA01D
	C0G (NP0)	50	750pF	±5%	0.6	490-1620-1-ND	1.60	9.43	27.19	490-1620-2-ND	4,000	26.10/M	GRM2165C1H751JA01D
	C0G (NP0)	50	910pF	±5%	0.6	490-1621-1-ND	1.60	9.43	27.19	490-1621-2-ND	4,000	26.00/M	GRM2165C1H911JA01D
	C0G (NP0)	50	1000pF	±5%	0.6	490-1622-1-ND	1.03	6.11	17.63	490-1622-2-ND	4,000	17.00/M	GRM2165C1H102JA01D
	C0G (NP0)	50	1100pF	±5%	0.6	490-1623-1-ND	1.14	6.76	19.50	490-1623-2-ND	4,000	19.00/M	GRM2165C1H112JA01D
	C0G (NP0)	50	1300pF	±5%	0.6	490-1624-1-ND	1.21	7.15	20.63	490-1624-2-ND	4,000	19.80/M	GRM2165C1H132JA01D
	C0G (NP0)	50	1500pF	±5%	0.6	490-3317-1-ND ***NEW!***	1.06	6.24	18.00	490-3317-2-ND ***NEW!***	4,000	17.00/M	GRM2165C1H152JA01D
	C0G (NP0)	50	1600pF	±5%	0.6	490-1625-1-ND	1.31	7.74	22.31	490-1625-2-ND	4,000	21.00/M	GRM2165C1H162JA01D
	C0G (NP0)	50	1800pF	±5%	0.6	490-1626-1-ND	1.19	7.02	20.25	490-1626-2-ND	4,000	19.00/M	GRM2165C1H182JA01D
	C0G (NP0)	50	2000pF	±5%	0.6	490-1627-1-ND	1.55	9.17	26.44	490-1627-2-ND	4,000	25.38/M	GRM2165C1H202JA01D
	C0G (NP0)	50	2200pF	±5%	0.6	490-1628-1-ND	1.36	8.06	23.25	490-1628-2-ND	4,000	22.00/M	GRM2165C1H222JA01D
	C0G (NP0)	50	2400pF	±5%	0.6	490-1629-1-ND	1.66	9.82	28.31	490-1629-2-ND	4,000	27.00/M	GRM2165C1H242JA01D
	C0G (NP0)	50	2700pF	±5%	0.6	490-1630-1-ND	1.64	9.69	27.94	490-1630-2-ND	4,000	27.00/M	GRM2165C1H272JA01D
	C0G (NP0)	50	3000pF	±5%	0.6	490-1631-1-ND	1.88	11.12	32.06	490-1631-2-ND	4,000	31.00/M	GRM2165C1H302JA01D
	C0G (NP0)	50	3300pF	±5%	0.6	490-1632-1-ND	1.44	8.52	24.56	490-1632-2-ND	4,000	24.00/M	GRM2165C1H332JA01D
	C0G (NP0)	50	3900pF	±5%	0.6	490-3045-1-ND	1.90	11.25	32.44	490-3045-2-ND	4,000	31.00/M	GRM2165C1H392JA01D
	C0G (NP0)	50	4700pF	±5%	0.6	490-3044-1-ND	2.04	12.03	34.69	490-3044-2-ND	4,000	33.00/M	GRM2165C1H472JA01D
	C0G (NP0)	50	5100pF	±5%	0.85	490-1635-1-ND	2.42	14.30	41.25	490-1635-2-ND	4,000	40.00/M	GRM2195C1H512JA01D
	C0G (NP0)	50	5600pF	±5%	0.85	490-1636-1-ND	2.34	13.85	39.94	490-1636-2-ND	4,000	38.00/M	GRM2195C1H562JA01D
	C0G (NP0)	50	6200pF	±5%	0.85	490-1637-1-ND	2.92	17.23	49.69	490-1637-2-ND	4,000	48.00/M	GRM2195C1H622JA01D
	C0G (NP0)	50	6800pF	±5%	0.85	490-1638-1-ND	2.83	16.71	48.19	490-1638-2-ND	4,000	46.00/M	GRM2195C1H682JA01D
	C0G (NP0)	50	7500pF	±5%	0.85	490-1639-1-ND	3.09	18.27	52.69	490-1639-2-ND	4,000	51.00/M	GRM2195C1H752JA01D
	C0G (NP0)	50	8200pF	±5%	0.85	490-1640-1-ND	3.03	17.88	51.56	490-1640-2-ND	4,000	50.00/M	GRM2195C1H822JA01D
	C0G (NP0)	50	9100pF	±5%	0.85	490-1641-1-ND	3.20	18.92	54.56	490-1641-2-ND	4,000	52.00/M	GRM2195C1H912JA01D
	C0G (NP0)	50	10000pF	±5%	0.85	490-1642-1-ND	3.81	22.49	64.88	490-1642-2-ND	4,000	62.00/M	GRM2195C1H103JA01D
	C0G (NP0)	50	12000pF	±5%	0.85	490-3320-1-ND	4.76	28.15	81.19	490-3320-2-ND	4,000	78.00/M	GRM2195C1H123JA01D
	C0G (NP0)	50	15000pF	±5%	0.85	490-1643-1-ND	4.69	27.69	79.88	490-1643-2-ND	4,000	77.00/M	GRM2195C1H153JA01D
	C0G (NP0)	50	18000pF	±5%	1.25	490-3321-1-ND	4.94	29.19	84.19	490-3321-2-ND	3,000	81.00/M	GRM21B5C1H183JA01L
	C0G (NP0)	50	22000pF	±5%	1.25	490-1644-1-ND	4.65	27.50	79.31	490-1644-2-ND	3,000	76.00/M	GRM21B5C1H223JA01L
	X7R	250	1000pF	±10%	1.0	490-3525-1-ND	1.32	7.80	22.50	490-3525-2-ND	4,000	22.00/M	GRM21AR72E102KW01D
	X7R	250	1500pF	±10%	1.0	490-3527-1-ND	1.42	8.39	24.19	490-3527-2-ND	4,000	23.00/M	GRM21AR72E152KW01D
	X7R	250	2200pF	±10%	1.0	490-3529-1-ND	1.42	8.39	24.19	490-3529-2-ND	4,000	23.00/M	GRM21AR72E222KW01D
	X7R	250	3300pF	±10%	1.0	490-3531-1-ND	1.42	8.39	24.19	490-3531-2-ND	4,000	23.00/M	GRM21AR72E332KW01D
	X7R	250	4700pF	±10%	1.0	490-3532-1-ND	1.42	8.39	24.19	490-3532-2-ND	4,000	23.00/M	GRM21AR72E472KW01D
	X7R	250	6800pF	±10%	1.0	490-3533-1-ND	1.42	8.39	24.19	490-3533-2-ND	4,000	23.00/M	GRM21AR72E682KW01D
	X7R	250	10000pF	±10%	1.25	490-3534-1-ND	1.42	8.39	24.19	490-3534-2-ND	3,000	23.00/M	GRM21BR72E103KW03L
	X7R	100	3900pF	±10%	0.85	490-1645-1-ND	1.41	8.32	24.00	490-1645-2-ND	4,000	23.00/M	GRM219R72A392KA01D
	X7R	100	4700pF	±10%	0.85	490-1646-1-ND	1.05	6.18	17.81	490-1646-2-ND	4,000	17.00/M	GRM219R72A472KA01D
	X7R	100	4700pF	±20%	0.85	490-1647-1-ND	1.05	6.18	17.81	490-1647-2-ND	4,000	17.00/M	GRM219R72A472MA01D
	X7R	100	5600pF	±10%	0.85	490-1648-1-ND	1.44	8.52	24.56	490-1648-2-ND	4,000	24.00/M	GRM219R72A562KA01D
	X7R	100	6800pF	±10%	0.85	490-1649-1-ND	1.14	6.76	19.50	490-1649-2-ND	4,000	19.00/M	GRM219R72A682KA01D
	X7R	100	6800pF	±20%	0.85	490-1650-1-ND	1.14	6.76	19.50	490-1650-2-ND	4,000	19.00/M	GRM219R72A682MA01D
	X7R	100	8200pF	±10%	1.25	490-1651-1-ND	1.42	8.39	24.19	490-1651-2-ND	3,000	23.00/M	GRM21BR72A822KA01L
	X7R	100	10000pF	±10%	1.25	490-1652-1-ND	.92	5.46	15.75	490-1652-2-ND	3,000	15.00/M	GRM21BR72A103KA01L
	X7R	100	10000pF	±20%	1.25	490-1653-1-ND	1.05	6.18	17.81	490-1653-2-ND	3,000	17.00/M	GRM21BR72A103MA01L
	X7R	100	12000pF	±10%	1.25	490-1654-1-ND	1.61	9.49	27.38	490-1654-2-ND	3,000	26.00/M	GRM21BR72A123KA01L
	X7R	100	15000pF	±10%	1.25	490-1655-1-ND	1.09	6.44	18.56	490-1655-2-ND	3,000	18.00/M	GRM21BR72A153KA01L
	X7R	100	15000pF	±20%	1.25	490-1656-1-ND	1.22	7.22	20.81	490-1656-2-ND	3,000	20.00/M	GRM21BR72A153MA01L
	X7R	100	18000pF	±10%	1.25	490-1657-1-ND	1.61	9.49	27.38	490-1657-2-ND	3,000	26.00/M	GRM21BR72A183KA01L
	X7R	100	22000pF	±10%	1.25	490-1658-1-ND	1.41	8.32	24.00	490-1658-2-ND	3,000	23.00/M	GRM21BR72A223KA01L
	X7R	100	22000pF	±20%	1.25	490-1659-1-ND	1.49	8.78	25.31	490-1659-2-ND	3,000	24.00/M	GRM21BR72A223MA01L
	X7R	100	33000pF	±10%	1.25	490-3323-1-ND	2.02	11.96	34.50	490-3323-2-ND	3,000	33.00/M	GRM21BR72A333KA01L
	X7R	100	47000pF	±10%	1.25	490-3325-1-ND	1.76	10.40	30.00	490-3325-2-ND	3,000	29.00/M	GRM21BR72A473KA01L
	X7R	100	.47µF	±10%	1.25	490-3326-1-ND	7.60	44.92	129.56	490-3326-2-ND	3,000	124.00/M	GRM21BR72A474KA73L
	X7R	50	10000pF	±10%	0.6	490-1664-1-ND	.28	1.68	4.86	490-1664-2-ND	4,000	4.67/M	GRM216R71H103KA01D
	X7R	50	22000pF	±10%	0.6	490-1665-1-ND	.76	4.49	12.94	490-1665-2-ND	4,000	12.00/M	GRM216R71H223KA01D
	X7R	50	33000pF	±10%	0.85	490-1660-1-ND	.76	4.48	12.92	490-1660-2-ND	4,000	12.00/M	GRM219R71H333KA01D
	X7R	50	47000pF	±10%	1.25	490-1661-1-ND	.98	5.79	16.69	490-1661-2-ND	3,000	16.00/M	GRM21BR71H473KA01L
	X7R	50	47000pF	±20%	1.25	490-4742-1-ND	1.02	6.05	17.44	490-4742-2-ND	3,000	17.00/M	GRM21BR71H473MA01L
	X7R	50	56000pF	±10%	1.25	490-1662-1-ND	1.49	8.78	25.31	490-1662-2-ND	3,000	24.00/M	GRM21BR71H563KA01L
	X7R	50	68000pF	±10%	1.25	490-1663-1-ND	1.88	11.12	32.06	490-1663-2-ND	3,000	31.00/M	GRM21BR71H683KA01L
	X7R	50	.1µF	±10%	1.25	490-1666-1-ND	.42	2.47	7.13	490-1666-2-ND	3,000	7.00/M	GRM21BR71H104KA01L
	X7R	50	.15µF	±10%	1.25	490-1667-1-ND	2.74	16.19	46.69	490-1667-2-ND	3,000	45.00/M	GRM21BR71H154KA01L
	X7R	50	.15µF	±20%	1.25	490-1668-1-ND	2.74	16.19	46.69	490-1668-2-ND	3,000	45.00/M	GRM21BR71H154MA01L
	X7R	50	.18µF	±10%	1.25	490-1669-1-ND	3.56	21.06	60.75	490-1669-2-ND	3,000	58.00/M	GRM21BR71H184KA01L
	X7R	50	.22µF	±10%	1.25	490-1670-1-ND	2.57	15.21	43.88	490-1670-2-ND	3,000	42.00/M	GRM21BR71H224KA01L
	X7R	50	.22µF	±20%	1.25	490-1671-1-ND	2.64	15.60	45.00	490-1671-2-ND	3,000	43.00/M	GRM21BR71H224MA01L
	X7R	50	.33µF	±10%	0.85	490-3327-1-ND	3.37	19.89	57.38	490-3327-2-ND	4,000	55.00/M	GRM219R71H334KA88D
	X7R	50	.47µF	±10%	1.25	490-3328-1-ND	3.27	19.31	55.69	490-3328-2-ND	3,000	53.00/M	GRM21BR71H474KA88L
	X7R	50	1.0µF	±10%	1.25	490-4736-1-ND	5.29	31.27	90.19	490-4736-2-ND	3,000	87.00/M	GRM21BR71H105KA12L
	X7R	25	68000pF	±10%	0.85	490-3046-1-ND	1.36	8.06	23.25	490-3046-2-ND	4,000	22.00/M	GRM219R71E683KA01D
	X7R	25	.1µF	±10%	1.25	490-1673-1-ND	.41	2.41	6.94	490-1673-2-ND	3,000	7.00/M	GRM21BR71E104KA01L
	X7R	25	.15µF	±10%	1.25	490-1674-1-ND	2.16	12.74	36.75	490-1674-2-ND	3,000	35.00/M	GRM21BR71E154KA01L
	X7R	25	.22µF	±10%	0.85	490-1675-1-ND	1.86	10.99	31.69	490-1675-2-ND	4,000	30.00/M	GRM219R71E224KA01D
	X7R	25	.27µF	±10%	0.85	490-1676-1-ND	3.97	23.47	67.69	490-1676-2-ND	4,000	65.00/M	GRM219R71E274KA01D
	X7R	25	.33µF	±10%	1.25	490-1677-1-ND	2.99	17.68	51.00	490-1677-2-ND	3,000	49.00/M	GRM21BR71E334KA01L
	X7R	25	.39µF	±10%	1.25	490-1679-1-ND	4.32	25.54	73.67	490-1679-2-ND	3,000	71.00/M	GRM21BR71E394KA01L
	X7R	25	.47µF	±10%	1.25	490-1680-1-ND	3.27	19.31	55.69	490-1680-2-ND	3,000	53.00/M	GRM21BR71E474KC01L
	X7R	25	.47µF	±20%	1.25	490-1681-1-ND	3.84	22.69	65.44	490-1681-2-ND	3,000	63.00/M	GRM21BR71E474MA01L
	X7R	25	2.2µF	±10%	1.25	490-3331-1-ND	7.93	46.87	135.19	490-3331-2-ND	3,000	130.00/M	GRM21BR71E225KA73L
	X7R	16	68000pF	±10%	0.85	490-1682-1-ND	1.36	8.06	23.25	490-1682-2-ND	4,000	22.00/M	GRM219R71C683KA01D
	X7R	16	.1µF	±10%	0.85	490-1683-1-ND	.81	4.81	13.88	490-1683-2-ND	4,000	13.00/M	GRM219R71C104KA01D
	X7R	16	.22µF	±10%	0.85	490-1684-1-ND	1.30	7.69	22.18	490-1684-2-ND	4,000	21.00/M	GRM219R71C224KA01D
	X7R	16	.47µF	±10%	0.85	490-1685-1-ND	3.69	21.78	62.81	490-1685-2-ND	4,000	60.00/M	GRM219R71C474KC01D
	X7R	16	.47µF	±20%	0.85	490-1686-1-ND	3.69	21.78	62.81	490-1686-2-ND	4,000	60.00/M	GRM219R71C474MC01D
	X7R	16	.47µF	±10%	1.25	490-3333-1-ND	3.56	21.06	60.75	490-3333-2-ND	3,000	58.00/M	GRM21BR71C474KA01L
	X7R	16	.56µF	±10%	0.85	490-1687-1-ND	3.72	21.97	63.38	490-1687-2-ND	4,000	61.00/M	GRM219R71C564KC01D
	X7R	16	.68µF	±10%	0.85	490-1688-1-ND	2.03	11.98	34.56	490-1688-2-ND	4,000	33.00/M	GRM219R71C684KC01D
	X7R	16	.68µF	±10%	0.85	490-4741-1-ND	2.51	14.82	42.75	490-4741-2-ND	4,000	41.00/M	GRM219R71C684KA01D
	X7R	16	.82µF	±10%	1.25	490-1690-1-ND	3.66	21.65	62.44	490-1690-2-ND	3,000	60.00/M	GRM21BR71C824KC01L
	X7R	16	1.0µF	±10%	1.25	490-1691-1-ND	1.06	6.24	18.00	490-1691-2-ND	3,000	17.00/M	GRM21BR71C105KA01L
	X7R	16	1.0µF	±20%	1.25	490-1692-1-ND	1.18	6.96	20.06	490-1692-2-ND	3,000	19.00/M	GRM21BR71C105MA01L
	X7R	16	2.2µF	±10%	1.25	490-3906-1-ND	3.55	21.00	60.56	490-3906-2-ND	3,000	58.00/M	GRM21BR71C225KA12L
	X7R	16	4.7µF	±10%	1.25	490-4522-1-ND	8.80	52.00	150.00	490-4522-2-ND	3,000	144.00/M	GRM21BR71C475KA73L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capac-itance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	10	.22µF	±10%	0.6	490-1693-1-ND	2.29	13.52	39.00	490-1693-2-ND	4,000	37.00/M	GRM216R71A224KC01D
	X7R	10	.33µF	±10%	0.6	490-1694-1-ND	2.49	14.69	42.38	490-1694-2-ND	4,000	41.00/M	GRM216R71A334KC01D
	X7R	10	1.0µF	±10%	1.25	490-1695-1-ND	1.13	6.70	19.31	490-1695-2-ND	3,000	19.00/M	GRM21BR71A105KA01L
	X7R	10	2.2µF	±10%	1.25	490-1696-1-ND	1.65	9.75	28.13	490-1696-2-ND	3,000	27.00/M	GRM21BR71A225KA01L
	X7R	10	2.2µF	±20%	1.25	490-1697-1-ND	1.65	9.75	28.13	490-1697-2-ND	3,000	27.00/M	GRM21BR71A225MA01L
	X7R	10	10µF	±10%	1.25	490-3905-1-ND	8.75	51.68	149.06	490-3905-2-ND	3,000	143.00/M	GRM21BR71A106KE51L
	X7R	6.3	2.2µF	±10%	1.25	490-1698-1-ND	1.65	9.75	28.13	490-1698-2-ND	3,000	27.00/M	GRM21BR70J225KA01L
	X7R	6.3	2.2µF	±20%	1.25	490-1699-1-ND	1.65	9.75	28.13	490-1699-2-ND	3,000	27.00/M	GRM21BR70J225MA01L
	X7R	6.3	10µF	±10%	1.25	490-3904-1-ND	8.75	51.68	149.06	490-3904-2-ND	3,000	143.00/M	GRM21BR70J106KE76L
	X6S	16	10µF	±10%	1.25	490-5519-1-ND ***NEW!***	5.73	33.87	97.69	490-5519-2-ND ***NEW!***	3,000	94.00/M	GRM21BC81C106KA73L
	X6S	10	4.7µF	±10%	0.85	490-3901-1-ND	2.49	14.69	42.38	490-3901-2-ND	4,000	41.00/M	GRM219C81A475KE34D
	X5R	25	1.0µF	±10%	0.6	490-1700-1-ND	3.58	21.13	60.94	490-1700-2-ND	4,000	59.00/M	GRM216R61E105KA12D
	X5R	25	2.2µF	±10%	0.85	490-1701-1-ND	4.67	27.61	79.63	490-1701-2-ND	4,000	76.00/M	GRM219R61E225KA12D
	X5R	25	2.2µF	±10%	1.25	490-3334-1-ND	2.97	17.55	50.63	490-3334-2-ND	3,000	49.00/M	GRM21BR61E225KA12L
	X5R	25	4.7µF	±10%	1.25	490-3335-1-ND	2.81	16.58	47.81	490-3335-2-ND	3,000	46.00/M	GRM21BR61E475KA12L
	X5R	25	4.7µF	±20%	1.25	490-5422-1-ND ***NEW!***	2.81	16.58	47.81	490-5422-2-ND ***NEW!***	3,000	46.00/M	GRM21BR61E475MA12L
	X5R	25	10µF	±10%	1.25	490-5523-1-ND ***NEW!***	5.26	31.07	89.63	490-5523-2-ND ***NEW!***	3,000	86.00/M	GRM21BR61E106KA73L
	X5R	16	2.2µF	±10%	0.85	490-3902-1-ND	5.53	32.70	94.31	490-3902-2-ND	4,000	91.00/M	GRM219R61C225KA88D
	X5R	16	2.2µF	±10%	1.25	490-3336-1-ND	2.49	14.69	42.38	490-3336-2-ND	3,000	41.00/M	GRM21BR61C225KA88L
	X5R	16	3.3µF	±10%	1.25	490-3337-1-ND	4.39	25.94	74.81	490-3337-2-ND	3,000	71.82/M	GRM21BR61C335KA88L
	X5R	16	4.7µF	±10%	1.25	490-3338-1-ND	3.25	19.18	55.31	490-3338-2-ND	3,000	53.00/M	GRM21BR61C475KA88L
	X5R	16	10µF	±10%	1.25	490-3886-1-ND	3.29	19.44	56.06	490-3886-2-ND	3,000	54.00/M	GRM21BR61C106KE15L
	X5R	16	10µF	±10%	0.85	490-5529-1-ND ***NEW!***	4.58	27.04	78.00	490-5529-2-ND ***NEW!***	4,000	75.00/M	GRM219R61C106KA73D
	X5R	10	1.0µF	±10%	0.85	490-1702-1-ND	1.08	6.37	18.38	490-1702-2-ND	4,000	18.00/M	GRM219R61A105KC01D
	X5R	10	1.0µF	±20%	0.85	490-1703-1-ND	1.13	6.70	19.31	490-1703-2-ND	4,000	19.00/M	GRM219R61A105MA01D
	X5R	10	2.2µF	±10%	0.6	490-1704-1-ND	2.60	15.39	44.38	490-1704-2-ND	4,000	43.00/M	GRM216R61A225KE24D
	X5R	10	2.2µF	±20%	0.6	490-1705-1-ND	2.60	15.39	44.38	490-1705-2-ND	4,000	43.00/M	GRM216R61A225ME24D
	X5R	10	3.3µF	±10%	0.85	490-1706-1-ND	4.73	27.95	80.63	490-1706-2-ND	4,000	77.00/M	GRM219R61A335KE19D
	X5R	10	4.7µF	±10%	0.85	490-1707-1-ND	6.42	37.96	109.50	490-1707-2-ND	4,000	105.00/M	GRM219R61A475KE19D
	X5R	10	4.7µF	±20%	0.85	490-1708-1-ND	6.42	37.96	109.50	490-1708-2-ND	4,000	105.00/M	GRM219R61A475ME19D
	X5R	10	10µF	±10%	0.85	490-4735-1-ND	4.73	27.95	80.63	490-4735-2-ND	4,000	77.00/M	GRM219R61A106KE44D
	X5R	10	10µF	±10%	1.25	490-1709-1-ND	1.93	11.38	32.81	490-1709-2-ND	3,000	32.00/M	GRM21BR61A106KE19L
	X5R	6.3	1.5µF	±10%	0.85	490-1710-1-ND	4.13	24.38	70.31	490-1710-2-ND	4,000	68.00/M	GRM219R60J155KC01D
	X5R	6.3	1.5µF	±20%	0.85	490-1711-1-ND	4.38	25.87	74.63	490-1711-2-ND	4,000	72.00/M	GRM219R60J155MC01D
	X5R	6.3	2.2µF	±10%	1.25	490-1712-1-ND	1.65	9.75	28.13	490-1712-2-ND	3,000	27.00/M	GRM21BR60J225KA01L
	X5R	6.3	3.3µF	±10%	1.25	490-1713-1-ND	4.79	28.31	81.66	490-1713-2-ND	3,000	78.00/M	GRM21BR60J335KA11L
	X5R	6.3	3.3µF	±20%	1.25	490-1714-1-ND	6.15	36.34	104.81	490-1714-2-ND	3,000	101.00/M	GRM21BR60J335MA11L
	X5R	6.3	4.7µF	±10%	0.85	490-1715-1-ND	7.55	44.59	128.63	490-1715-2-ND	4,000	123.00/M	GRM219R60J475KE01D
	X5R	6.3	4.7µF	±20%	0.85	490-1716-1-ND	6.40	37.83	109.13	490-1716-2-ND	4,000	105.00/M	GRM219R60J475ME01D
	X5R	6.3	10µF	±10%	0.85	490-3340-1-ND	2.68	15.86	45.75	490-3340-2-ND	4,000	44.00/M	GRM219R60J106KE19D
	X5R	6.3	10µF	±10%	1.25	490-1717-1-ND	2.56	15.15	43.69	490-1717-2-ND	3,000	42.00/M	GRM21BR60J106KE19L
	X5R	6.3	10µF	±20%	1.25	490-1718-1-ND	1.54	9.10	26.25	490-1718-2-ND	3,000	25.00/M	GRM21BR60J106ME19L
	X5R	6.3	22µF	±20%	1.25	490-1719-1-ND	3.52	20.80	60.00	490-1719-2-ND	3,000	58.00/M	GRM21BR60J226ME39L
	Y5V	100	10000pF	+80, -20%	1.25	490-3342-1-ND	2.37	13.98	40.31	490-3342-2-ND	3,000	39.00/M	GRM21BF52A103ZD01L
	Y5V	50	10000pF	+80, -20%	0.6	490-1720-1-ND	.54	3.19	9.19	490-1720-2-ND	4,000	9.00/M	GRM216F51H103ZA01D
	Y5V	50	33000pF	+80, -20%	0.6	490-1721-1-ND	.75	4.42	12.75	490-1721-2-ND	4,000	12.00/M	GRM216F51H333ZA01D
	Y5V	50	68000pF	+80, -20%	0.6	490-1722-1-ND	.83	4.88	14.06	490-1722-2-ND	4,000	14.00/M	GRM216F51H683ZA01D
	Y5V	50	.1µF	+80, -20%	0.85	490-1723-1-ND	.50	2.96	8.53	490-1723-2-ND	4,000	8.00/M	GRM219F51H104ZA01D
	Y5V	50	.15µF	+80, -20%	0.85	490-1724-1-ND	1.63	9.62	27.75	490-1724-2-ND	4,000	27.00/M	GRM219F51H154ZA01D
	Y5V	50	.22µF	+80, -20%	0.6	490-3047-1-ND	1.63	9.62	27.75	490-3047-2-ND	4,000	27.00/M	GRM216F51H224ZA01D
	Y5V	50	1.0µF	+80, -20%	1.25	490-3903-1-ND	1.02	6.05	17.44	490-3903-2-ND	3,000	17.00/M	GRM21BF51H105ZA12L
	Y5V	25	.1µF	+80, -20%	0.6	490-1726-1-ND	.43	2.57	7.41	490-1726-2-ND	4,000	7.00/M	GRM216F51E104ZA01D
	Y5V	25	.15µF	+80, -20%	0.6	490-1727-1-ND	1.33	7.87	22.69	490-1727-2-ND	4,000	22.00/M	GRM216F51E154ZA01D
	Y5V	25	.22µF	+80, -20%	0.85	490-1728-1-ND	1.42	8.39	24.19	490-1728-2-ND	4,000	23.00/M	GRM219F51E224ZA01D
	Y5V	25	.33µF	+80, -20%	1.25	490-1729-1-ND	2.18	12.87	37.13	490-1729-2-ND	3,000	36.00/M	GRM21BF51E334ZA01L
	Y5V	25	.47µF	+80, -20%	0.6	490-3346-1-ND	1.60	9.43	27.19	490-3346-2-ND	4,000	26.00/M	GRM216F51E474ZA01D
	Y5V	25	.47µF	+80, -20%	1.25	490-1730-1-ND	1.94	11.44	33.00	490-1730-2-ND	3,000	32.00/M	GRM21BF51E474ZA01L
	Y5V	25	1.0µF	+80, -20%	0.85	490-1731-1-ND	.81	4.81	13.88	490-1731-2-ND	4,000	13.00/M	GRM219F51E105ZA01D
	Y5V	25	1.5µF	+80, -20%	1.25	490-1732-1-ND	2.16	12.74	36.75	490-1732-2-ND	3,000	35.00/M	GRM21BF51E155ZA01L
	Y5V	25	2.2µF	+80, -20%	1.25	490-1733-1-ND	1.51	8.91	25.69	490-1733-2-ND	3,000	25.00/M	GRM21BF51E225ZA01L
	Y5V	25	4.7µF	+80, -20%	1.25	490-3345-1-ND	3.07	18.14	52.31	490-3345-2-ND	3,000	50.00/M	GRM21BF51E475ZA01L
	Y5V	16	.1µF	+80, -20%	0.6	490-1734-1-ND	.76	4.49	12.94	490-1734-2-ND	4,000	12.42/M	GRM216F51C104ZA01D
	Y5V	16	.22µF	+80, -20%	0.85	490-1735-1-ND	1.42	8.39	24.19	490-1735-2-ND	4,000	23.00/M	GRM219F51C224ZA01D
	Y5V	16	.33µF	+80, -20%	0.85	490-1736-1-ND	2.24	13.26	38.25	490-1736-2-ND	4,000	37.00/M	GRM219F51C334ZA01D
	Y5V	16	.47µF	+80, -20%	1.25	490-1737-1-ND	1.96	11.57	33.38	490-1737-2-ND	3,000	32.00/M	GRM21BF51C474ZA01L
	Y5V	16	.68µF	+80, -20%	1.25	490-1738-1-ND	3.14	18.53	53.44	490-1738-2-ND	3,000	51.00/M	GRM21BF51C684ZA01L
	Y5V	16	1.0µF	+80, -20%	0.85	490-1739-1-ND	.81	4.81	13.88	490-1739-2-ND	4,000	13.00/M	GRM219F51C105ZA01D
	Y5V	16	1.5µF	+80, -20%	1.25	490-1740-1-ND	2.02	11.96	34.50	490-1740-2-ND	3,000	33.00/M	GRM21BF51C155ZA01L
	Y5V	16	2.2µF	+80, -20%	1.25	490-1741-1-ND	1.22	7.22	20.81	490-1741-2-ND	3,000	20.00/M	GRM21BF51C225ZA01L
	Y5V	16	10µF	+80, -20%	1.25	490-3347-1-ND	2.89	17.10	49.31	490-3347-2-ND	3,000	47.00/M	GRM21BF51C106ZE15L
	Y5V	10	1.5µF	+80, -20%	1.25	490-1742-1-ND	1.78	10.53	30.38	490-1742-2-ND	3,000	35.00/M	GRM21BF51A155ZA01L
	Y5V	10	2.2µF	+80, -20%	1.25	490-1743-1-ND	1.22	7.22	20.81	490-1743-2-ND	3,000	20.00/M	GRM21BF51A225ZA01L
	Y5V	10	3.3µF	+80, -20%	0.85	490-1744-1-ND	4.07	24.05	69.38	490-1744-2-ND	4,000	67.00/M	GRM219F51A335ZA01D
	Y5V	10	4.7µF	+80, -20%	1.25	490-1745-1-ND	1.51	8.91	25.69	490-1745-2-ND	3,000	25.00/M	GRM21BF51A475ZA01L
	Y5V	10	10µF	+80, -20%	1.25	490-3332-1-ND	1.85	10.92	31.50	490-3332-2-ND	3,000	30.00/M	GRM21BF51A106ZE15L
	Y5V	6.3	10µF	+80, -20%	1.25	490-1746-1-ND	1.64	9.69	27.94	490-1746-2-ND	3,000	27.00/M	GRM21BF50J106ZE01L
	Z5U	50	.1µF	±20%	0.85	490-1748-1-ND	.77	4.55	13.13	490-1748-2-ND	4,000	13.00/M	GRM219E41H104MA01D
1206	C0G (NP0)	630	100pF	±5%	1.0	490-5273-1-ND	4.50	26.59	76.69	490-5273-2-ND	4,000	74.00/M	GRM31A5C2J101JW01D
	C0G (NP0)	630	150pF	±5%	1.0	490-5274-1-ND	4.50	26.59	76.69	490-5274-2-ND	4,000	74.00/M	GRM31A5C2J151JW01D
	C0G (NP0)	630	220pF	±5%	1.0	490-5275-1-ND	4.50	26.59	76.69	490-5275-2-ND	4,000	74.00/M	GRM31A5C2J221JW01D
	C0G (NP0)	630	330pF	±5%	1.0	490-5276-1-ND	4.50	26.59	76.69	490-5276-2-ND	4,000	74.00/M	GRM31A5C2J331JW01D
	C0G (NP0)	630	470pF	±5%	1.0	490-5277-1-ND	4.50	26.59	76.69	490-5277-2-ND	4,000	74.00/M	GRM31A5C2J471JW01D
	C0G (NP0)	630	680pF	±5%	1.25	490-5278-1-ND	4.65	27.50	79.31	490-5278-2-ND	3,000	76.00/M	GRM31B5C2J681JW01L
	C0G (NP0)	630	1000pF	±5%	1.25	490-5279-1-ND	4.73	27.95	80.63	490-5279-2-ND	3,000	77.00/M	GRM31B5C2J102JW01L
	C0G (NP0)	100	1000pF	±5%	0.85	490-3348-1-ND	3.39	20.02	57.75	490-3348-2-ND	4,000	55.00/M	GRM3195C2A102JA01D
	C0G (NP0)	100	1500pF	±5%	0.85	490-3349-1-ND	4.40	26.00	75.00	490-3349-2-ND	4,000	72.00/M	GRM3195C2A152JA01D
	C0G (NP0)	100	2200pF	±5%	0.85	490-3350-1-ND	4.68	27.63	79.69	490-3350-2-ND	4,000	77.00/M	GRM3195C2A222JA01D
	C0G (NP0)	100	3300pF	±5%	0.85	490-3351-1-ND	4.42	26.13	75.38	490-3351-2-ND	4,000	72.00/M	GRM3195C2A332JA01D
	C0G (NP0)	100	4700pF	±5%	0.85	490-3352-1-ND	6.66	39.33	113.44	490-3352-2-ND	4,000	109.00/M	GRM3195C2A472JA01D
	C0G (NP0)	100	5600pF	±5%	0.85	490-3353-1-ND	7.60	44.92	129.56	490-3353-2-ND	4,000	124.00/M	GRM3195C2A562JA01D
	C0G (NP0)	50	1000pF	±5%	0.85	490-1749-1-ND	2.65	15.67	45.19	490-1749-2-ND	4,000	43.00/M	GRM3195C1H102JA01D
	C0G (NP0)	50	1500pF	±5%	0.85	490-3354-1-ND	3.34	19.76	57.00	490-3354-2-ND	4,000	55.00/M	GRM3195C1H152JA01D
	C0G (NP0)	50	2200pF	±5%	0.85	490-3355-1-ND	3.66	21.65	62.44	490-3355-2-ND	4,000	60.00/M	GRM3195C1H222JA01D
	C0G (NP0)	50	3300pF	±5%	0.85	490-3356-1-ND	3.66	21.65	62.44	490-3356-2-ND	4,000	60.00/M	GRM3195C1H332JA01D
	C0G (NP0)	50	4700pF	±5%	0.85	490-3357-1-ND	4.35	25.68	74.06	490-3357-2-ND	4,000	71.00/M	GRM3195C1H472JA01D
	C0G (NP0)	50	5600pF	±5%	0.85	490-1750-1-ND	5.34	31.53	90.94	490-1750-2-ND	4,000	87.00/M	GRM3195C1H562JA01D
	C0G (NP0)	50	6200pF	±5%	0.85	490-1751-1-ND	5.18	30.62	88.31	490-1751-2-ND	4,000	85.00/M	GRM3195C1H622JA01D
	C0G (NP0)	50	6800pF	±5%	0.85	490-1752-1-ND	4.98	29.45	84.94	490-1752-2-ND	4,000	82.00/M	GRM3195C1H682JA01D
	C0G (NP0)	50	8200pF	±5%	0.85	490-1753-1-ND	5.32	31.46	90.75	490-1753-2-ND	4,000	87.00/M	GRM3195C1H822JA01D
	C0G (NP0)	50	10000pF	±5%	0.85	490-1754-1-ND	5.60	33.09	95.44	490-1754-2-ND	4,000	92.00/M	GRM3195C1H103JA01D
	C0G (NP0)	50	11000pF	±5%	0.85	490-1755-1-ND	6.86	40.56	117.00	490-1755-2-ND	4,000	112.32/M	GRM3195C1H113JA01D
	C0G (NP0)	50	12000pF	±5%	0.85	490-1756-1-ND	6.81	40.24	116.06	490-1756-2-ND	4,000	111.00/M	GRM3195C1H123JA01D

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Capac- itance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1206	C0G (NP0)	50	13000pF	±5%	0.85	490-1757-1-ND	6.86	40.56	117.00	490-1757-2-ND	4,000	112.00/M	GRM3195C1H133JA01D
	C0G (NP0)	50	15000pF	±5%	0.85	490-1758-1-ND	6.48	38.29	110.44	490-1758-2-ND	4,000	106.00/M	GRM3195C1H153JA01D
	C0G (NP0)	50	18000pF	±5%	0.85	490-1759-1-ND	6.60	39.00	112.50	490-1759-2-ND	4,000	108.00/M	GRM3195C1H183JA01D
	C0G (NP0)	50	20000pF	±5%	0.85	490-1760-1-ND	6.60	39.00	112.50	490-1760-2-ND	4,000	108.00/M	GRM3195C1H203JA01D
	C0G (NP0)	50	22000pF	±5%	0.85	490-1761-1-ND	6.61	39.07	112.69	490-1761-2-ND	4,000	108.00/M	GRM3195C1H223JA01D
	C0G (NP0)	50	27000pF	±5%	0.85	490-1762-1-ND	6.72	39.72	114.56	490-1762-2-ND	4,000	110.00/M	GRM3195C1H273JA01D
	C0G (NP0)	50	33000pF	±5%	0.85	490-1763-1-ND	6.83	40.37	116.44	490-1763-2-ND	4,000	112.00/M	GRM3195C1H333JA01D
	C0G (NP0)	50	39000pF	±5%	1.15	490-3358-1-ND	7.17	42.38	122.25	490-3358-2-ND	3,000	117.00/M	GRM31M5C1H393JA01L
	C0G (NP0)	50	47000pF	±5%	1.15	490-1764-1-ND	7.43	43.88	126.56	490-1764-2-ND	3,000	122.00/M	GRM31M5C1H473JA01L
	C0G (NP0)	50	56000pF	±5%	1.6	490-3359-1-ND	8.01	47.32	136.50	490-3359-2-ND	2,000	131.00/M	GRM31C5C1H563JA01L
	C0G (NP0)	50	68000pF	±5%	1.6	490-3360-1-ND	8.94	52.85	152.44	490-3360-2-ND	2,000	146.00/M	GRM31C5C1H683JA01L
	C0G (NP0)	50	82000pF	±5%	1.6	490-1765-1-ND	9.36	55.32	159.56	490-1765-2-ND	2,000	153.00/M	GRM31C5C1H823JA01L
	C0G (NP0)	25	39000pF	±5%	0.85	490-3361-1-ND	7.60	44.92	129.56	490-3361-2-ND	4,000	124.00/M	GRM3195C1E393JA01D
	C0G (NP0)	25	68000pF	±5%	1.6	490-1766-1-ND	8.72	51.55	148.69	—	—	—	GRM31C5C1E683JA01L
	C0G (NP0)	25	.1µF	±5%	1.6	490-1767-1-ND	7.88	46.54	134.25	490-1767-2-ND	2,000	129.00/M	GRM31C5C1E104JA01L
	U2J	1,000	47pF	±5%	1.0	490-4299-1-ND	4.85	28.67	82.69	490-4299-2-ND	4,000	79.00/M	GRM31A7U3A470JW31D
	U2J	1,000	68pF	±5%	1.0	490-4300-1-ND	4.85	28.67	82.69	490-4300-2-ND	4,000	79.00/M	GRM31A7U3A680JW31D
	U2J	1,000	100pF	±5%	1.0	490-4301-1-ND	4.85	28.67	82.69	490-4301-2-ND	4,000	79.00/M	GRM31A7U3A101JW31D
	U2J	1,000	150pF	±5%	1.0	490-4302-1-ND	5.26	31.07	89.63	490-4302-2-ND	4,000	86.00/M	GRM31A7U3A151JW31D
	U2J	1,000	220pF	±5%	1.0	490-4303-1-ND	5.26	31.07	89.63	490-4303-2-ND	4,000	86.00/M	GRM31A7U3A221JW31D
	U2J	1,000	330pF	±5%	1.0	490-4304-1-ND	5.26	31.07	89.63	490-4304-2-ND	4,000	86.00/M	GRM31A7U3A331JW31D
	U2J	1,000	470pF	±5%	1.25	490-4305-1-ND	5.93	35.04	101.06	490-4305-2-ND	3,000	97.00/M	GRM31B7U3A471JW31L
	U2J	630	100pF	±5%	1.0	490-4290-1-ND	3.92	23.14	66.75	490-4290-2-ND	4,000	64.00/M	GRM31A7U2J101JW31D
	U2J	630	150pF	±5%	1.0	490-4291-1-ND	3.85	22.75	65.63	490-4291-2-ND	4,000	63.00/M	GRM31A7U2J151JW31D
	U2J	630	220pF	±5%	1.0	490-4292-1-ND	4.10	24.25	69.94	490-4292-2-ND	4,000	67.00/M	GRM31A7U2J221JW31D
	U2J	630	330pF	±5%	1.0	490-4293-1-ND	3.80	22.43	64.69	490-4293-2-ND	4,000	62.00/M	GRM31A7U2J331JW31D
	U2J	630	470pF	±5%	1.0	490-4294-1-ND	3.80	22.43	64.69	490-4294-2-ND	4,000	62.00/M	GRM31A7U2J471JW31D
	U2J	630	680pF	±5%	1.0	490-4295-1-ND	4.05	23.92	69.00	490-4295-2-ND	4,000	66.00/M	GRM31A7U2J681JW31D
	U2J	630	1000pF	±5%	1.0	490-4296-1-ND	3.95	23.34	67.31	490-4296-2-ND	4,000	65.00/M	GRM31A7U2J102JW31D
	X7R	1,000	1000pF	±10%	1.25	490-3494-1-ND	4.54	26.85	77.44	490-3494-2-ND	3,000	74.00/M	GRM31BR73A102KW01L
	X7R	1,000	1500pF	±10%	1.25	490-3495-1-ND	4.54	26.85	77.44	490-3495-2-ND	3,000	74.00/M	GRM31BR73A152KW01L
	X7R	1,000	2200pF	±10%	1.25	490-3496-1-ND	4.66	27.56	79.50	490-3496-2-ND	3,000	76.00/M	GRM31BR73A222KW01L
	X7R	1,000	3300pF	±10%	1.25	490-3497-1-ND	4.69	27.69	79.88	490-3497-2-ND	3,000	77.00/M	GRM31BR73A332KW01L
	X7R	1,000	4700pF	±10%	1.25	490-3498-1-ND	4.82	28.47	82.13	490-3498-2-ND	3,000	79.00/M	GRM31BR73A472KW01L
	X7R	630	1000pF	±10%	1.25	490-3506-1-ND	2.85	16.84	48.56	490-3506-2-ND	3,000	47.00/M	GRM31BR72J102KW01L
	X7R	630	1500pF	±10%	1.25	490-3507-1-ND	3.47	20.48	59.06	490-3507-2-ND	3,000	57.00/M	GRM31BR72J152KW01L
	X7R	630	2200pF	±10%	1.25	490-3508-1-ND	3.66	21.65	62.44	490-3508-2-ND	3,000	60.00/M	GRM31BR72J222KW01L
	X7R	630	3300pF	±10%	1.25	490-3509-1-ND	3.47	20.48	59.06	490-3509-2-ND	3,000	57.00/M	GRM31BR72J332KW01L
	X7R	630	4700pF	±10%	1.25	490-3510-1-ND	3.55	21.00	60.56	490-3510-2-ND	3,000	58.00/M	GRM31BR72J472KW01L
	X7R	630	6800pF	±10%	1.25	490-3511-1-ND	4.21	24.90	71.81	490-3511-2-ND	3,000	69.00/M	GRM31BR72J682KW01L
	X7R	630	10000pF	±10%	1.25	490-3512-1-ND	3.28	19.37	55.88	490-3512-2-ND	3,000	54.00/M	GRM31BR72J103KW01L
	X7R	630	15000pF	±10%	1.6	490-3513-1-ND	3.96	23.40	67.50	490-3513-2-ND	2,000	65.00/M	GRM31CR72J153KW03L
	X7R	250	15000pF	±10%	1.25	490-3535-1-ND	4.40	26.00	75.00	490-3535-2-ND	3,000	72.00/M	GRM31BR72E153KW01L
	X7R	250	22000pF	±10%	1.25	490-3536-1-ND	4.40	26.00	75.00	490-3536-2-ND	3,000	72.00/M	GRM31BR72E223KW01L
	X7R	250	33000pF	±10%	1.6	490-3537-1-ND	4.40	26.00	75.00	490-3537-2-ND	2,000	72.00/M	GRM31CR72E333KW03L
	X7R	250	47000pF	±10%	1.6	490-3538-1-ND	4.38	25.87	74.63	490-3538-2-ND	2,000	72.00/M	GRM31CR72E473KW03L
	X7R	250	68000pF	±10%	1.25	490-3540-1-ND	4.29	25.35	73.13	490-3540-2-ND	3,000	70.00/M	GRM31BR72E683KW01L
	X7R	250	.1µF	±10%	1.6	490-3542-1-ND	3.95	23.34	67.31	490-3542-2-ND	2,000	65.00/M	GRM31CR72E104KW03L
	X7R	100	27000pF	±10%	1.15	490-1768-1-ND	1.98	11.70	33.75	490-1768-2-ND	3,000	32.00/M	GRM31MR72A273KA01L
	X7R	100	33000pF	±10%	1.15	490-1770-1-ND	1.90	11.25	32.44	490-1770-2-ND	3,000	31.00/M	GRM31MR72A333KA01L
	X7R	100	33000pF	±20%	1.15	490-1769-1-ND	1.90	11.25	32.44	490-1769-2-ND	3,000	31.00/M	GRM31MR72A333MA01L
	X7R	100	47000pF	±10%	1.15	490-1773-1-ND	1.91	11.31	32.63	490-1773-2-ND	3,000	31.00/M	GRM31MR72A473KA01L
	X7R	100	47000pF	±20%	1.15	490-1772-1-ND	1.91	11.31	32.63	490-1772-2-ND	3,000	31.00/M	GRM31MR72A473MA01L
	X7R	100	68000pF	±10%	1.15	490-3363-1-ND	2.29	13.52	39.00	490-3363-2-ND	3,000	37.00/M	GRM31MR72A683KA01L
	X7R	100	1.0µF	±10%	1.6	490-3909-1-ND	8.69	51.35	148.13	490-3909-2-ND	2,000	142.00/M	GRM31CR72A105KA01L
	X7R	50	10000pF	±10%	0.85	490-1774-1-ND	1.54	9.10	26.25	490-1774-2-ND	4,000	25.00/M	GRM319R71H103KA01D
	X7R	50	.1µF	±10%	0.85	490-1775-1-ND	.74	4.36	12.56	490-1775-2-ND	4,000	12.00/M	GRM319R71H104KA01D
	X7R	50	.22µF	±10%	0.85	490-1776-1-ND	3.19	18.85	54.38	490-1776-2-ND	4,000	52.00/M	GRM319R71H224KA01D
	X7R	50	.27µF	±10%	0.85	490-1777-1-ND	4.46	26.33	75.94	490-1777-2-ND	4,000	73.00/M	GRM319R71H274KA01D
	X7R	50	.33µF	±10%	0.85	490-1778-1-ND	4.46	26.33	75.94	490-1778-2-ND	4,000	73.00/M	GRM319R71H334KA01D
	X7R	50	.33µF	±20%	0.85	490-1779-1-ND	4.68	27.63	79.69	490-1779-2-ND	4,000	77.00/M	GRM319R71H334MA01D
	X7R	50	.39µF	±10%	1.15	490-1780-1-ND	5.89	34.78	100.31	490-1780-2-ND	3,000	96.00/M	GRM31MR71H394KA01L
	X7R	50	.47µF	±10%	1.15	490-1781-1-ND	5.89	34.78	100.31	490-1781-2-ND	3,000	96.00/M	GRM31MR71H474KA01L
	X7R	50	.47µF	±20%	1.15	490-1782-1-ND	4.64	27.43	79.13	490-1782-2-ND	3,000	76.00/M	GRM31MR71H474MA01L
	X7R	50	1.0µF	±10%	1.6	490-3908-1-ND	2.90	17.16	49.50	490-3908-2-ND	2,000	48.00/M	GRM31CR71H105KA61L
	X7R	50	2.2µF	±10%	1.6	490-3367-1-ND	4.84	28.60	82.50	490-3367-2-ND	2,000	79.00/M	GRM31CR71H225KA88L
	X7R	25	.33µF	±10%	0.85	490-1783-1-ND	4.46	26.33	75.94	490-1783-2-ND	4,000	73.00/M	GRM319R71E334KA01D
	X7R	25	.47µF	±10%	0.85	490-1784-1-ND	5.16	30.49	87.94	490-1784-2-ND	4,000	84.00/M	GRM319R71E474KA01D
	X7R	25	.68µF	±10%	0.85	490-1787-1-ND	6.23	36.79	106.13	490-1787-2-ND	4,000	102.00/M	GRM319R71E684KA01D
	X7R	25	.68µF	±20%	0.85	490-1786-1-ND	6.23	36.79	106.13	490-1786-2-ND	4,000	102.00/M	GRM319R71E684MA01D
	X7R	25	.82µF	±10%	1.15	490-1788-1-ND	5.86	34.65	99.94	490-1788-2-ND	3,000	95.94/M	GRM31MR71E824KA01L
	X7R	25	1.0µF	±10%	1.15	490-1789-1-ND	2.98	17.62	50.81	490-1789-2-ND	3,000	49.00/M	GRM31MR71E105KC01L
	X7R	25	1.0µF	±20%	1.15	490-1790-1-ND	2.49	14.69	42.38	490-1790-2-ND	3,000	41.00/M	GRM31MR71E105MC01L
	X7R	25	2.2µF	±10%	1.15	490-3368-1-ND	3.56	21.06	60.75	490-3368-2-ND	3,000	58.00/M	GRM31MR71E225KA93L
	X7R	25	4.7µF	±10%	1.6	490-1809-1-ND	4.58	27.04	78.00	490-1809-2-ND	2,000	75.00/M	GRM31CR71E475KA88L
	X7R	16	.47µF	±10%	0.85	490-1791-1-ND	4.68	27.63	79.69	490-1791-2-ND	3,000	77.00/M	GRM319R71C474KC01L
	X7R	16	.56µF	±10%	0.85	490-1792-1-ND	5.68	33.54	96.75	490-1792-2-ND	4,000	93.00/M	GRM319R71C564KA01D
	X7R	16	.68µF	±10%	1.15	490-1793-1-ND	5.82	34.39	99.19	490-1793-2-ND	3,000	95.00/M	GRM31MR71C684KA01L
	X7R	16	1.0µF	±10%	0.85	490-1794-1-ND	2.73	16.12	46.50	490-1794-2-ND	4,000	45.00/M	GRM319R71C105KC11D
	X7R	16	1.0µF	±20%	0.85	490-1795-1-ND	2.87	16.97	48.94	490-1795-2-ND	4,000	47.00/M	GRM319R71C105MC11D
	X7R	16	1.5µF	±10%	1.15	490-1797-1-ND	3.97	23.47	67.69	490-1797-2-ND	3,000	65.00/M	GRM31MR71C155KA35L
	X7R	16	1.5µF	±20%	1.15	490-1796-1-ND	3.49	20.61	59.44	—	—	—	GRM31MR71C155MA35L
	X7R	16	2.2µF	±10%	1.15	490-1799-1-ND	1.87	11.05	31.88	490-1799-2-ND	3,000	31.00/M	GRM31MR71C225KA35L
	X7R	16	2.2µF	±20%	1.15	490-1798-1-ND	2.50	14.76	42.56	490-1798-2-ND	3,000	41.00/M	GRM31MR71C225MA35L
	X7R	16	10µF	±10%	1.6	490-3911-1-ND	18.52	109.46	315.75	490-3911-2-ND	2,000	303.00/M	GRM31CR71C106KAC7L
	X7R	10	1.0µF	±10%	0.85	490-1800-1-ND	2.81	16.58	47.81	490-1800-2-ND	4,000	46.00/M	GRM319R71A105KA01D
	X7R	10	1.0µF	±20%	0.85	490-1801-1-ND	2.39	14.11	40.69	490-1801-2-ND	4,000	48.00/M	GRM319R71A105MC01D
	X7R	10	2.2µF	±10%	1.15	490-1803-1-ND	2.56	15.15	43.69	490-1803-2-ND	3,000	42.00/M	GRM31MR71A225KA01L
	X7R	10	2.2µF	±20%	1.15	490-1802-1-ND	2.56	15.15	43.69	490-1802-2-ND	3,000	42.00/M	GRM31MR71A225MA01L
	X7R	10	4.7µF	±10%	1.6	490-1805-1-ND	3.74	22.10	63.75	490-1805-2-ND	2,000	61.00/M	GRM31CR71A475KA01L
	X7R	10	4.7µF	±20%	1.6	490-1804-1-ND	3.74	22.10	63.75	490-1804-2-ND	2,000	61.20/M	GRM31CR71A475MA01L
	X7R	10	10µF	±10%	1.6	490-3371-1-ND	5.23	30.88	89.06	490-3371-2-ND	2,000	86.00/M	GRM31CR71A106KA01L
	X7R	10	22µF	±10%	1.6	490-5309-1-ND	19.58	115.70	333.75	490-5309-2-ND	2,000	320.00/M	GRM31CR71A226KE15L
	X7R	6.3	10µF	±10%	1.6	490-1806-1-ND	4.94	29.19	84.19	490-1806-2-ND	2,000	81.00/M	GRM31CR70J106KA01L
	X6S	35	10µF	±10%	1.6	490-5520-1-ND ***NEW!***	7.16	42.32	122.06	490-5520-2-ND ***NEW!***	2,000	117.00/M	GRM31CC8YA106KA12L
	X6S	25	10µF	±10%	1.6	490-5308-1-ND	6.56	38.74	111.75	490-5308-2-ND	2,000	107.00/M	GRM31CC81E106KE15L
	X6S	16	10µF	±10%	0.85	490-5521-1-ND ***NEW!***	7.08	41.86	120.75	490-5521-2-ND ***NEW!***	4,000	116.00/M	GRM319C81C106KA12D
	X6S	10	22µF	±20%	1.6	490-4737-1-ND	15.65	92.50	266.81	490-4737-2-ND	2,000	256.00/M	GRM31CC81A226ME19L
	X6S	6.3	47µF	±20%	1.6	490-5522-1-ND ***NEW!***	12.95	76.51	220.69	490-5522-2-ND ***NEW!***	2,000	212.00/M	GRM31CC80J476ME18L
	X6S	4	47µF	±20%	1.6	490-4523-1-ND	14.53	85.87	247.69	490-4523-2-ND	2,000	238.00/M	GRM31CC80G476ME19L
	X5R	35	10µF	±10%	1.6	490-5524-1-ND ***NEW!***	7.16	42.32	122.06	490-5524-2-ND ***NEW!***	2,000	117.00/M	GRM31CR6YA106KA12L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capac-itance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1206	X5R	25	1.0µF	±10%	0.85	490-1807-1-ND	2.33	13.78	39.75	490-1807-2-ND	4,000	38.16/M	GRM319R61E105KC36D
	X5R	25	2.2µF	±10%	0.6	490-1808-1-ND	6.71	39.65	114.38	490-1808-2-ND	4,000	110.00/M	GRM316R61E225KA12D
	X5R	25	4.7µF	±10%	0.85	490-3372-1-ND	9.55	56.42	162.75	490-3372-2-ND	4,000	156.00/M	GRM319R61E475KA12D
	X5R	25	10µF	±10%	1.6	490-3373-1-ND	4.02	23.73	68.44	490-3373-2-ND	2,000	66.00/M	GRM31CR61E106KA12L
	X5R	25	10µF	±10%	0.85	490-5525-1-ND ***NEW!***	7.08	41.86	120.75	490-5525-2-ND ***NEW!***	4,000	116.00/M	GRM319R61E106KA12D
	X5R	25	10µF	±20%	1.6	490-5423-1-ND ***NEW!***	4.02	23.73	68.44	490-5423-2-ND ***NEW!***	2,000	66.00/M	GRM31CR61E106MA12L
	X5R	25	22µF	±10%	1.6	490-5527-1-ND ***NEW!***	9.67	57.14	164.81	490-5527-2-ND ***NEW!***	2,000	158.00/M	GRM31CR61E226KE15L
	X5R	16	1.0µF	±10%	1.15	490-1810-1-ND	2.81	16.58	47.81	490-1810-2-ND	3,000	46.00/M	GRM31MR61C105KA01L
	X5R	16	2.2µF	±10%	1.15	490-1811-1-ND	2.50	14.76	42.56	490-1811-2-ND	3,000	41.00/M	GRM31MR61C225KA35L
	X5R	16	4.7µF	±10%	0.85	490-3374-1-ND	9.22	54.47	157.13	490-3374-2-ND	4,000	151.00/M	GRM319R61C475KA88D
	X5R	16	4.7µF	±10%	1.6	490-1812-1-ND	3.87	22.88	66.00	490-1812-2-ND	2,000	63.00/M	GRM31CR61C475KA01L
	X5R	16	4.7µF	±20%	1.6	490-1813-1-ND	3.87	22.88	66.00	490-1813-2-ND	2,000	63.00/M	GRM31CR61C475MA01L
	X5R	16	10µF	±10%	1.6	490-1814-1-ND	5.28	31.20	90.00	490-1814-2-ND	2,000	86.00/M	GRM31CR61C106KC31L
	X5R	16	22µF	±20%	1.6	490-4739-1-ND	14.41	85.15	245.63	490-4739-2-ND	2,000	236.00/M	GRM31CR61C226ME15L
	X5R	10	2.2µF	±10%	0.85	490-1815-1-ND	2.56	15.15	43.69	490-1815-2-ND	4,000	42.00/M	GRM319R61A225KA01D
	X5R	10	3.3µF	±10%	0.85	490-1817-1-ND	7.59	44.85	129.38	490-1817-2-ND	4,000	124.00/M	GRM319R61A335KA01D
	X5R	10	4.7µF	±10%	0.85	490-3377-1-ND	8.18	48.36	139.50	490-3377-2-ND	4,000	134.00/M	GRM319R61A475KA01D
	X5R	10	4.7µF	±10%	0.6	490-1818-1-ND	5.60	33.09	95.44	490-1818-2-ND	4,000	92.00/M	GRM316R61A475KE19D
	X5R	10	10µF	±10%	0.85	490-3378-1-ND	18.10	106.93	308.44	490-3378-2-ND	4,000	296.00/M	GRM319R61A106KE19D
	X5R	10	10µF	±10%	1.6	490-1820-1-ND	4.58	27.04	78.00	490-1820-2-ND	2,000	75.00/M	GRM31CR61A106KA01L
	X5R	10	10µF	±20%	1.15	490-1819-1-ND	6.18	36.53	105.38	490-1819-2-ND	3,000	101.00/M	GRM31MR61A106ME19L
	X5R	10	22µF	±20%	1.6	490-4738-1-ND	14.41	85.15	245.63	490-4738-2-ND	2,000	236.00/M	GRM31CR61A226ME19L
	X5R	10	47µF	±20%	1.6	490-5528-1-ND ***NEW!***	12.95	76.51	220.69	490-5528-2-ND ***NEW!***	2,000	212.00/M	GRM31CR61A476ME15L
	X5R	6.3	4.7µF	±10%	1.15	490-3043-1-ND	3.71	21.91	63.19	490-3043-2-ND	3,000	61.00/M	GRM31MR60J475KC11L
	X5R	6.3	10µF	±10%	0.85	490-1823-1-ND	18.10	106.93	308.44	490-1823-2-ND	4,000	296.00/M	GRM319R60J106KE01D
	X5R	6.3	10µF	±20%	0.85	490-1822-1-ND	14.97	88.46	255.17	490-1822-2-ND	4,000	245.00/M	GRM319R60J106ME01D
	X5R	6.3	10µF	±10%	0.85	490-5240-1-ND	18.10	106.93	308.44	490-5240-2-ND	4,000	296.00/M	GRM319R60J106KE19D
	X5R	6.3	10µF	±10%	1.15	490-3379-1-ND	6.12	36.14	104.25	490-3379-2-ND	3,000	100.00/M	GRM31MR60J106KE19L
	X5R	6.3	22µF	±10%	1.6	490-1824-1-ND	6.60	39.00	112.50	490-1824-2-ND	2,000	108.00/M	GRM31CR60J226KE19L
	X5R	6.3	47µF	±20%	1.6	490-3907-1-ND	14.53	85.87	247.69	490-3907-2-ND	2,000	238.00/M	GRM31CR60J476ME19L
	X5R	6.3	100µF	±20%	1.6	490-4539-1-ND	24.68	145.86	420.75	490-4539-2-ND	2,000	404.00/M	GRM31CR60J107ME39L
	Y5V	100	47000pF	+80, -20%	1.15	490-3380-1-ND	8.12	47.97	138.38	490-3380-2-ND	3,000	133.00/M	GRM31MF52A473ZD01L
	Y5V	50	.1µF	+80, -20%	0.85	490-1825-1-ND	1.34	7.93	22.88	490-1825-2-ND	4,000	22.00/M	GRM319F51H104ZA01D
	Y5V	50	.33µF	+80, -20%	0.85	490-1826-1-ND	2.23	13.20	38.06	490-1826-2-ND	4,000	37.00/M	GRM319F51H334ZA01D
	Y5V	50	.47µF	+80, -20%	1.15	490-1827-1-ND	4.27	25.22	72.75	490-1827-2-ND	3,000	70.00/M	GRM31MF51H474ZA01L
	Y5V	50	2.2µF	+80, -20%	1.15	490-3381-1-ND	3.53	20.87	60.19	490-3381-2-ND	3,000	58.00/M	GRM31MF51H225ZA01L
	Y5V	50	4.7µF	+80, -20%	1.6	490-1828-1-ND	4.58	27.04	78.00	490-1828-2-ND	2,000	74.88/M	GRM31CF51H475ZA01L
	Y5V	25	.22µF	+80, -20%	0.85	490-1829-1-ND	2.11	12.48	36.00	490-1829-2-ND	4,000	35.00/M	GRM319F51E224ZA01D
	Y5V	25	.47µF	+80, -20%	0.85	490-1830-1-ND	2.46	14.56	42.00	490-1830-2-ND	4,000	40.00/M	GRM319F51E474ZA01D
	Y5V	25	.68µF	+80, -20%	1.15	490-1831-1-ND	3.70	21.84	63.00	490-1831-2-ND	3,000	60.00/M	GRM31MF51E684ZA01L
	Y5V	25	1.0µF	+80, -20%	1.15	490-1832-1-ND	1.33	7.83	22.59	490-1832-2-ND	3,000	22.00/M	GRM31MF51E105ZA01L
	Y5V	25	4.7µF	+80, -20%	1.15	490-1833-1-ND	3.73	22.04	63.56	490-1833-2-ND	3,000	61.00/M	GRM31MF51E475ZA01L
	Y5V	25	10µF	+80, -20%	1.6	490-3382-1-ND	4.84	28.60	82.50	490-3382-2-ND	2,000	79.00/M	GRM31CF51E106ZA01L
	Y5V	16	.47µF	+80, -20%	0.85	490-1834-1-ND	2.81	16.58	47.81	490-1834-2-ND	3,000	46.00/M	GRM319F51C474ZA01L
	Y5V	16	1.0µF	+80, -20%	0.85	490-1835-1-ND	1.86	10.99	31.69	490-1835-2-ND	4,000	30.00/M	GRM319F51C105ZA01D
	Y5V	16	1.5µF	+80, -20%	1.15	490-1836-1-ND	3.65	21.58	62.25	490-1836-2-ND	3,000	60.00/M	GRM31MF51C155ZA01L
	Y5V	16	2.2µF	+80, -20%	1.15	490-1837-1-ND	3.30	19.50	56.25	490-1837-2-ND	3,000	54.00/M	GRM31MF51C225ZA01L
	Y5V	16	3.3µF	+80, -20%	1.15	490-1838-1-ND	4.58	27.04	78.00	490-1838-2-ND	3,000	75.00/M	GRM31MF51C335ZA01L
	Y5V	16	4.7µF	+80, -20%	1.15	490-1839-1-ND	1.98	11.70	33.75	490-1839-2-ND	3,000	32.00/M	GRM31MF51C475ZA01L
	Y5V	16	10µF	+80, -20%	1.15	490-3383-1-ND	3.31	19.57	56.44	490-3383-2-ND	3,000	54.00/M	GRM31MF51C106ZA12L
	Y5V	10	2.2µF	+80, -20%	0.85	490-1840-1-ND	3.27	19.31	55.69	490-1840-2-ND	4,000	53.00/M	GRM319F51A225ZA01D
	Y5V	10	3.3µF	+80, -20%	0.85	490-1841-1-ND	4.52	26.72	77.06	490-1841-2-ND	4,000	74.00/M	GRM319F51A335ZA01D
	Y5V	10	4.7µF	+80, -20%	1.15	490-1842-1-ND	1.98	11.70	33.75	490-1842-2-ND	3,000	32.00/M	GRM31MF51A475ZA01L
	Y5V	10	10µF	+80, -20%	1.15	490-1843-1-ND	2.39	14.11	40.69	490-1843-2-ND	3,000	39.00/M	GRM31MF51A106ZA01L
	Y5V	10	22µF	+80, -20%	1.6	490-1844-1-ND	5.13	30.29	87.38	490-1844-2-ND	2,000	84.00/M	GRM31CF51A226ZE01L
	Y5V	6.3	10µF	+80, -20%	1.15	490-1845-1-ND	2.39	14.11	40.69	490-1845-2-ND	3,000	39.00/M	GRM31MF50J106ZA01L
	Y5V	6.3	22µF	+80, -20%	1.6	490-1846-1-ND	5.40	31.92	92.06	490-1846-2-ND	2,000	88.00/M	GRM31CF50J226ZE01L
	Y5V	6.3	100µF	+80, -20%	1.6	490-4512-1-ND	16.06	94.90	273.75	490-4512-2-ND	2,000	263.00/M	GRM31CF50J107ZE01L
	Z5U	50	.22µF	±20%	0.85	490-1847-1-ND	2.24	13.26	38.25	490-1847-2-ND	4,000	37.00/M	GRM319E41H224MA01D
1210	U2J	630	1500pF	±5%	1.0	490-4297-1-ND	8.91	52.65	151.88	490-4297-2-ND	4,000	146.00/M	GRM32A7U2J152JW31D
	U2J	630	2200pF	±5%	1.0	490-4298-1-ND	8.91	52.65	151.88	490-4298-2-ND	4,000	146.00/M	GRM32A7U2J222JW31D
	X7R	1,000	6800pF	±10%	1.5	490-3499-1-ND	9.24	54.60	157.50	490-3499-2-ND	2,000	151.00/M	GRM32QR73A682KW01L
	X7R	1,000	10000pF	±10%	1.5	490-3500-1-ND	9.38	55.45	159.94	490-3500-2-ND	2,000	154.00/M	GRM32QR73A103KW01L
	X7R	1,000	15000pF	±10%	2.0	490-3501-1-ND	11.07	65.39	188.63	490-3501-2-ND	1,000	181.00	GRM32DR73A153KW01L
	X7R	1,000	22000pF	±10%	2.0	490-3502-1-ND	11.31	66.82	192.75	490-3502-2-ND	1,000	185.00	GRM32DR73A223KW01L
	X7R	630	22000pF	±10%	1.5	490-3514-1-ND	6.52	38.55	111.19	490-3514-2-ND	2,000	107.00/M	GRM32QR72J223KW01L
	X7R	630	33000pF	±10%	2.0	490-3515-1-ND	6.89	40.69	117.38	490-3515-2-ND	1,000	113.00	GRM32DR72J333KW01L
	X7R	630	47000pF	±10%	2.0	490-3516-1-ND	9.49	56.10	161.81	490-3516-2-ND	1,000	155.00	GRM32DR72J473KW01L
	X7R	250	68000pF	±10%	1.5	490-3539-1-ND	6.14	36.27	104.63	490-3539-2-ND	2,000	100.00/M	GRM32QR72E683KW01L
	X7R	250	.1µF	±10%	2.0	490-3541-1-ND	5.49	32.44	93.56	490-3541-2-ND	1,000	90.00	GRM32DR72E104KW01L
	X7R	250	.22µF	±10%	2.0	490-3545-1-ND	6.39	37.77	108.94	490-3545-2-ND	1,000	105.00	GRM32DR72E224KW01L
	X7R	100	56000pF	±10%	1.35	490-1848-1-ND	8.54	50.44	145.50	490-1848-2-ND	2,000	140.00/M	GRM32NR72A563KA01L
	X7R	100	68000pF	±10%	1.35	490-1850-1-ND	8.89	52.52	151.50	490-1850-2-ND	2,000	145.00/M	GRM32NR72A683KA01L
	X7R	100	68000pF	±20%	1.35	490-1849-1-ND	9.33	55.12	159.00	490-1849-2-ND	2,000	153.00/M	GRM32NR72A683MA01L
	X7R	100	82000pF	±10%	1.35	490-1851-1-ND	9.12	53.89	155.44	490-1851-2-ND	2,000	149.00/M	GRM32NR72A823KA01L
	X7R	100	.1µF	±10%	1.35	490-1853-1-ND	9.45	55.84	161.06	490-1853-2-ND	2,000	155.00/M	GRM32NR72A104KA01L
	X7R	100	.1µF	±20%	1.35	490-1852-1-ND	9.45	55.84	161.06	490-1852-2-ND	2,000	155.00/M	GRM32NR72A104MA01L
	X7R	100	.68µF	±10%	1.6	490-1854-1-ND	13.75	81.25	234.38	490-1854-2-ND	2,000	225.00/M	GRM32CR72A684KA01L
	X7R	100	.68µF	±20%	1.6	490-1855-1-ND	13.75	81.25	234.38	490-1855-2-ND	2,000	225.00/M	GRM32CR72A684MA01L
	X7R	100	1.0µF	±10%	2.5	490-1857-1-ND	14.97	88.47	255.19	490-1857-2-ND	1,000	245.00	GRM32ER72A105KA01L
	X7R	100	1.0µF	±20%	2.5	490-1856-1-ND	14.97	88.47	255.19	490-1856-2-ND	1,000	245.00	GRM32ER72A105MA01L
	X7R	100	2.2µF	±10%	2.5	490-3385-1-ND	29.80	176.09	507.94	490-3385-2-ND	1,000	488.00	GRM32ER72A225KA35L
	X7R	50	.56µF	±10%	1.35	490-1858-1-ND	8.81	52.07	150.19	490-1858-2-ND	2,000	144.18/M	GRM32NR71H564KA01L
	X7R	50	.68µF	±10%	1.35	490-1860-1-ND	9.33	55.12	159.00	490-1860-2-ND	2,000	153.00/M	GRM32NR71H684KA01L
	X7R	50	.68µF	±20%	1.35	490-1859-1-ND	9.78	57.79	166.69	490-1859-2-ND	2,000	160.00/M	GRM32NR71H684MA01L
	X7R	50	.82µF	±10%	1.8	490-1861-1-ND	10.09	59.61	171.94	490-1861-2-ND	1,000	165.00	GRM32RR71H824KA01L
	X7R	50	1.0µF	±10%	1.8	490-1863-1-ND	5.01	29.58	85.31	490-1863-2-ND	1,000	82.00	GRM32RR71H105KA01L
	X7R	50	1.0µF	±20%	1.8	490-1862-1-ND	6.59	38.94	112.31	490-1862-2-ND	1,000	108.00	GRM32RR71H105MA01L
	X7R	50	3.3µF	±10%	2.0	490-3386-1-ND	19.92	117.72	339.56	490-3386-2-ND	1,000	326.00	GRM32DR71H335KA88L
	X7R	50	4.7µF	±10%	2.5	490-1864-1-ND	22.00	130.00	375.00	490-1864-2-ND	1,000	360.00	GRM32ER71H475KA88L
	X7R	35	10µF	±10%	2.5	490-5314-1-ND	42.49	251.10	724.31	490-5314-2-ND	1,000	695.00	GRM32ER7YA106KA12L
	X7R	25	2.2µF	±10%	1.8	490-1865-1-ND	9.02	53.30	153.75	490-1865-2-ND	1,000	148.00	GRM32RR71E225KC01L
	X7R	25	2.2µF	±20%	1.8	490-1866-1-ND	7.76	45.83	132.19	490-1866-2-ND	1,000	127.00	GRM32RR71E225MC01L
	X7R	25	10µF	±10%	2.0	490-1867-1-ND	11.81	69.81	201.38	490-1867-2-ND	1,000	193.00	GRM32DR71E106KA12L
	X7R	25	22µF	±10%	2.5	490-5313-1-ND	42.31	249.99	721.13	490-5313-2-ND	1,000	692.00	GRM32ER71E226KE15L
	X7R	16	3.3µF	±10%	1.35	490-1871-1-ND	11.97	70.72	204.00	490-1871-2-ND	2,000	196.00/M	GRM32NR71C335KC01L
	X7R	16	3.3µF	±20%	1.35	490-1870-1-ND	11.97	70.72	204.00	490-1870-2-ND	2,000	196.00/M	GRM32NR71C335MA01L
	X7R	16	10µF	±10%	2.0	490-1875-1-ND	13.53	79.95	230.63	490-1875-2-ND	1,000	221.00	GRM32DR71C106KA01L
	X7R	16	10µF	±20%	2.0	490-1874-1-ND	16.41	96.98	279.75	490-1874-2-ND	1,000	269.00	GRM32DR71C106MA01L
	X7R	16	2.2µF	±10%	1.15	490-1869-1-ND	7.52	44.46	128.25	490-1869-2-ND	3,000	123.00/M	GRM32MR71C225KC01L
	X7R	16	2.2µF	±20%	1.15	490-1868-1-ND	7.52	44.46	128.25	490-1868-2-ND	3,000	123.00/M	GRM32MR71C225MC01L
	X7R	16	4.7µF	±10%	1.8	490-1872-1-ND	14.80	87.43	252.19	490-1872-2-ND	1,000	242.00	GRM32RR71C475KC01L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1210	X7R	16	4.7µF	±20%	1.8	490-1873-1-ND	12.42	73.39	211.69	490-1873-2-ND	1,000	203.00	GRM32RR71C475MC01L
	X7R	16	22µF	±10%	2.5	490-4524-1-ND	53.39	315.51	910.13	490-4524-2-ND	1,000	874.00	GRM32ER71C226KE18L
	X7R	16	22µF	±20%	2.5	490-4740-1-ND	53.04	313.43	904.13	490-4740-2-ND	1,000	868.00	GRM32ER71C226ME18L
	X7R	10	22µF	±10%	2.5	490-1876-1-ND	27.01	159.58	460.31	490-1876-2-ND	1,000	442.00	GRM32ER71A226KE20L
	X7R	10	47µF	±10%	2.5	490-5312-1-ND	46.73	276.12	796.50	490-5312-2-ND	1,000	765.00	GRM32ER71A476KE15L
	X7R	6.3	47µF	±10%	2.5	490-5311-1-ND	46.73	276.12	796.50	490-5311-2-ND	1,000	765.00	GRM32ER70J476KE20L
	X6S	25	22µF	±10%	2.5	490-5310-1-ND	42.31	249.99	721.13	490-5310-2-ND	1,000	692.00	GRM32EC81E226KE15L
	X5R	25	4.7µF	±10%	1.8	490-1877-1-ND	10.46	61.79	178.24	490-1877-2-ND	1,000	171.00	GRM32RR61E475KC31L
	X5R	25	10µF	±10%	2.0	490-1878-1-ND	11.81	69.81	201.38	490-1878-2-ND	1,000	193.00	GRM32DR61E106KA12L
	X5R	25	22µF	±10%	2.5	490-3889-1-ND	35.27	208.39	601.13	490-3889-2-ND	1,000	577.00	GRM32ER61E226KE15L
	X5R	16	4.7µF	±10%	1.8	490-1879-1-ND	10.46	61.79	178.24	490-1879-2-ND	1,000	171.00	GRM32RR61C475KC01L
	X5R	16	10µF	±10%	2.0	490-1880-1-ND	13.53	79.95	230.63	490-1880-2-ND	1,000	221.00	GRM32DR61C106KA01L
	X5R	16	22µF	±10%	2.5	490-1882-1-ND	27.96	165.23	476.63	490-1882-2-ND	1,000	458.00	GRM32ER61C226KE20L
	X5R	16	22µF	±20%	2.5	490-1881-1-ND	22.00	130.00	375.00	490-1881-2-ND	1,000	360.00	GRM32ER61C226ME20L
	X5R	16	47µF	±20%	2.5	490-3888-1-ND	19.80	117.00	337.50	490-3888-2-ND	1,000	324.00	GRM32ER61C476ME15L
	X5R	10	10µF	±10%	2.5	490-1883-1-ND	15.38	90.87	262.13	490-1883-2-ND	1,000	252.00	GRM32ER61A106KC01L
	X5R	10	10µF	±20%	2.5	490-1884-1-ND	11.80	69.75	201.19	490-1884-2-ND	1,000	193.00	GRM32ER61A106MC01L
	X5R	10	22µF	±10%	2.5	490-3388-1-ND	30.79	181.94	524.81	490-3388-2-ND	1,000	504.00	GRM32ER61A226KE20L
	X5R	10	47µF	±10%	2.5	490-3887-1-ND	26.88	158.86	440.00	490-3887-2-ND	1,000	440.00	GRM32ER61A476KE20L
	X5R	6.3	22µF	±10%	2.0	490-1886-1-ND	14.44	85.35	246.19	490-1886-2-ND	1,000	236.00	GRM32DR60J226KA01L
	X5R	6.3	22µF	±20%	2.0	490-1885-1-ND	14.44	85.35	246.19	490-1885-2-ND	1,000	236.00	GRM32DR60J226MA01L
	X5R	6.3	33µF	±20%	2.0	490-3389-1-ND	27.89	164.78	475.31	490-3389-2-ND	1,000	456.00	GRM32DR60J336ME19L
	X5R	6.3	47µF	±20%	2.5	490-1887-1-ND	17.60	104.00	300.00	490-1887-2-ND	1,000	288.00	GRM32ER60J476ME20L
	X5R	6.3	100µF	±20%	2.5	490-3390-1-ND	31.91	188.57	543.94	490-3390-2-ND	1,000	522.00	GRM32ER60J107ME20L
	Y5V	100	.1µF	+80, -20%	1.35	490-1888-1-ND	6.85	40.50	116.81	490-1888-2-ND	2,000	112.00/M	GRM32NF52A104ZA01L
	Y5V	50	.68µF	+80, -20%	1.35	490-1889-1-ND	9.27	54.80	158.06	490-1889-2-ND	2,000	152.00/M	GRM32NF51H684ZA01L
	Y5V	50	1.0µF	+80, -20%	1.8	490-1890-1-ND	5.86	34.65	99.94	490-1890-2-ND	1,000	96.00	GRM32RF51H105ZA01L
	Y5V	50	10µF	+80, -20%	2.0	490-1891-1-ND	9.52	56.23	162.19	490-1891-2-ND	1,000	156.00	GRM32DF51H106ZA01L
	Y5V	25	4.7µF	+80, -20%	0.85	490-1892-1-ND	7.78	45.96	132.56	490-1892-2-ND	4,000	127.00/M	GRM329F51E475ZA01D
	Y5V	25	10µF	+80, -20%	1.35	490-1893-1-ND	6.70	39.59	114.19	490-1893-2-ND	2,000	110.00/M	GRM32NF51E106ZA01L
	Y5V	16	10µF	+80, -20%	1.35	490-1894-1-ND	5.75	34.00	98.06	490-1894-2-ND	2,000	94.00/M	GRM32NF51C106ZA01L
	Y5V	16	22µF	+80, -20%	1.6	490-3392-1-ND	7.38	43.62	125.81	490-3392-2-ND	2,000	121.00/M	GRM32CF51C226ZA12L
	Y5V	10	10µF	+80, -20%	0.85	490-3393-1-ND	8.58	50.70	146.25	490-3393-2-ND	4,000	140.00/M	GRM329F51A106ZA01D
	Y5V	10	22µF	+80, -20%	1.6	490-1895-1-ND	7.38	43.62	125.81	490-1895-2-ND	2,000	121.00/M	GRM32CF51A226ZA01L
	Y5V	6.3	100µF	+80, -20%	2.5	490-3394-1-ND	27.64	163.35	471.19	490-3394-2-ND	1,000	452.00	GRM32EF50J107ZE20L
	Z5U	50	1.0µF	±20%	1.8	490-1896-1-ND	6.03	35.62	102.75	490-1896-2-ND	1,000	99.00	GRM32RE41H105MA01L
1808	U2J	3,150	56pF	±5%	1.0	490-4306-1-ND	10.19	60.19	173.63	490-4306-2-ND	3,000	167.00/M	GRM42A7U3F560JW31L
	U2J	3,150	68pF	±5%	1.0	490-4307-1-ND	10.19	60.19	173.63	490-4307-2-ND	3,000	167.00/M	GRM42A7U3F680JW31L
	U2J	3,150	82pF	±5%	1.0	490-4308-1-ND	10.19	60.19	173.63	490-4308-2-ND	3,000	167.00/M	GRM42A7U3F820JW31L
	U2J	3,150	100pF	±5%	1.0	490-4309-1-ND	10.19	60.19	173.63	490-4309-2-ND	3,000	167.00/M	GRM42A7U3F101JW31L
1812	X7R	1,000	33000pF	±10%	2.0	490-3503-1-ND	18.98	112.13	323.44	490-3503-2-ND	1,000	311.00	GRM43DR73A333KW01L
	X7R	1,000	47000pF	±10%	2.0	490-3504-1-ND	20.02	118.30	341.25	490-3504-2-ND	1,000	328.00	GRM43DR73A473KW01L
	X7R	630	68000pF	±10%	1.5	490-3517-1-ND	13.19	77.94	224.81	490-3517-2-ND	1,000	216.00	GRM43QR72J683KW01L
	X7R	630	.1µF	±10%	2.0	490-3518-1-ND	12.61	74.49	214.88	490-3518-2-ND	1,000	206.00	GRM43DR72J104KW01L
	X7R	250	.15µF	±10%	1.5	490-3543-1-ND	13.81	81.58	235.31	490-3543-2-ND	1,000	226.00	GRM43QR72E154KW01L
	X7R	250	.22µF	±10%	2.0	490-3544-1-ND	13.81	81.58	235.31	490-3544-2-ND	1,000	226.00	GRM43DR72E224KW01L
	X7R	250	.33µF	±10%	2.0	490-3547-1-ND	13.35	78.91	227.63	490-3547-2-ND	1,000	219.00	GRM43DR72E334KW01L
	X7R	250	.47µF	±10%	2.0	490-3549-1-ND	15.69	92.69	267.38	490-3549-2-ND	1,000	257.00	GRM43DR72E474KW01L
	X7R	100	.12µF	±10%	1.8	490-1900-1-ND	12.60	74.43	214.69	490-1900-2-ND	1,000	206.00	GRM43RR72A124KA01L
	X7R	100	.15µF	±10%	1.8	490-1901-1-ND	13.40	79.17	228.38	490-1901-2-ND	1,000	219.00	GRM43RR72A154KA01L
	X7R	100	.18µF	±10%	1.8	490-1902-1-ND	18.47	109.14	314.81	490-1902-2-ND	1,000	302.00	GRM43RR72A184KA01L
	X7R	100	.22µF	±10%	1.8	490-1903-1-ND	23.89	141.18	407.25	490-1903-2-ND	1,000	391.00	GRM43RR72A224KA01L
	X7R	100	.22µF	±20%	1.8	490-1904-1-ND	20.03	118.37	341.44	490-1904-2-ND	1,000	328.00	GRM43RR72A224MA01L
	X7R	100	.47µF	±10%	2.0	490-1905-1-ND	34.68	204.95	591.19	490-1905-2-ND	1,000	568.00	GRM43DR72A474KA01L
	X7R	100	1.5µF	±10%	2.0	490-1906-1-ND	32.97	194.81	561.94	490-1906-2-ND	1,000	539.00	GRM43DR72A155KA01L
	X7R	100	1.5µF	±20%	2.0	490-1907-1-ND	32.97	194.81	561.94	490-1907-2-ND	1,000	539.00	GRM43DR72A155MA01L
	X7R	100	2.2µF	±10%	2.5	490-1908-1-ND	42.01	248.24	—	490-1908-2-ND	500	343.50	GRM43ER72A225KA01L
	X7R	100	2.2µF	±20%	2.5	490-1909-1-ND	35.44	209.43	—	490-1909-2-ND	500	290.00	GRM43ER72A225MA01L
	X7R	50	1.5µF	±10%	2.0	490-1910-1-ND	30.43	179.79	518.63	490-1910-2-ND	1,000	498.00	GRM43DR71H155KA01L
	X7R	50	1.5µF	±20%	2.0	490-1911-1-ND	30.43	179.79	518.63	490-1911-2-ND	1,000	498.00	GRM43DR71H155MA01L
	X7R	50	2.2µF	±10%	2.5	490-1912-1-ND	33.83	199.88	—	490-1912-2-ND	500	277.00	GRM43ER71H225KA01L
	X7R	50	2.2µF	±20%	2.5	490-1913-1-ND	35.46	209.56	—	490-1913-2-ND	500	290.00	GRM43ER71H225MA01L
	X7R	25	4.7µF	±10%	2.5	490-1914-1-ND	32.75	193.51	—	490-1914-2-ND	500	268.00	GRM43ER71E475KA01L
	X7R	25	4.7µF	±20%	2.5	490-1915-1-ND	32.75	193.51	—	490-1915-2-ND	500	268.00	GRM43ER71E475MA01L
	X7R	10	22µF	±10%	2.5	490-1916-1-ND	32.75	193.51	—	490-1916-2-ND	500	268.00	GRM43ER71A226KE01L
	X5R	16	22µF	±10%	2.5	490-1917-1-ND	32.75	193.51	—	490-1917-2-ND	500	268.00	GRM43ER61C226KE01L
	X5R	10	47µF	±10%	2.5	490-1918-1-ND	51.71	305.57	—	490-1918-2-ND	500	423.00	GRM43ER61A476KE19L
	X5R	6.3	33µF	±10%	2.0	490-1919-1-ND	47.11	278.40	803.06	490-1919-2-ND	1,000	771.00	GRM43DR60J336KE01L
	X5R	6.3	33µF	±20%	2.0	490-1920-1-ND	47.11	278.40	803.06	490-1920-2-ND	1,000	771.00	GRM43DR60J336ME01L
	X5R	6.3	47µF	±10%	2.5	490-1921-1-ND	51.71	305.57	—	490-1921-2-ND	500	423.00	GRM43ER60J476KE01L
	X5R	6.3	47µF	±20%	2.5	490-1922-1-ND	51.71	305.57	—	490-1922-2-ND	500	423.00	GRM43ER60J476ME01L
	X5R	6.3	100µF	±20%	2.8	490-1923-1-ND	115.02	679.64	—	490-1923-2-ND	500	941.00	GRM43SR60J107ME20L
	Y5V	100	.15µF	+80, -20%	1.8	490-1924-1-ND	15.14	89.44	258.00	490-1924-2-ND	1,000	248.00	GRM43RF52A154ZA01L
	Y5V	50	1.5µF	+80, -20%	1.8	490-1925-1-ND	73.62	435.05	1254.94	490-1925-2-ND	1,000	1205.00	GRM43RF51H155ZD01L
2220	C0G (NP0)	50	16000pF	±5%	1.35	490-1926-1-ND	77.02	455.13	1312.88	—	—	—	GRM55N5C1H163JD01L
	X7R	1,000	0.1µF	±10%	2.0	490-3505-1-ND	28.11	166.08	479.06	490-3505-2-ND	1,000	460.00	GRM55DR73A104KW01L
	X7R	630	.15µF	±10%	2.0	490-3519-1-ND	26.52	156.72	452.06	490-3519-2-ND	1,000	434.00	GRM55DR72J154KW01L
	X7R	630	.22µF	±10%	2.0	490-3520-1-ND	26.35	155.68	449.06	490-3520-2-ND	1,000	431.00	GRM55DR72J224KW01L
	X7R	250	.33µF	±10%	2.0	490-3546-1-ND	26.87	158.80	458.06	490-3546-2-ND	1,000	440.00	GRM55DR72E334KW01L
	X7R	250	.47µF	±10%	2.0	490-3548-1-ND	27.40	161.92	467.06	490-3548-2-ND	1,000	448.00	GRM55DR72E474KW01L
	X7R	250	1.0µF	±10%	2.0	490-3550-1-ND	27.93	165.04	476.06	490-3550-2-ND	1,000	457.00	GRM55DR72E105KW01L
	X7R	100	1.0µF	±10%	2.0	490-1932-1-ND	57.79	341.51	985.13	490-1932-2-ND	1,000	946.00	GRM55DR72A105KA01L
	X7R	100	4.7µF	±10%	2.5	490-1934-1-ND	75.89	448.44	—	490-1934-2-ND	500	621.00	GRM55ER72A475KA01L
	X7R	50	1.0µF	±10%	1.8	490-1936-1-ND	64.58	381.62	1100.81	490-1936-2-ND	1,000	1057.00	GRM55RR71H105KA01L
	X7R	50	1.0µF	±20%	1.8	490-1935-1-ND	54.49	322.01	928.88	490-1935-2-ND	1,000	892.00	GRM55RR71H105MA01L
	X7R	50	1.5µF	±10%	1.8	490-1938-1-ND	70.54	416.85	1202.44	490-1938-2-ND	1,000	1154.00	GRM55RR71H155KA01L
	X7R	50	1.5µF	±20%	1.8	490-1937-1-ND	70.54	416.85	1202.44	490-1937-2-ND	1,000	1154.00	GRM55RR71H155MA01L
	X7R	50	3.3µF	±10%	2.0	490-1939-1-ND	59.66	352.56	1017.00	490-1939-2-ND	1,000	976.00	GRM55DR71H335KA01L
	X7R	50	3.3µF	±20%	2.0	490-1940-1-ND	59.66	352.56	1017.00	490-1940-2-ND	1,000	976.00	GRM55DR71H335MA01L
	X7R	50	4.7µF	±10%	2.5	490-1941-1-ND	68.71	405.99	—	490-1941-2-ND	500	562.00	GRM55ER71H475KA01L
	X7R	50	4.7µF	±20%	2.5	490-1942-1-ND	57.76	341.32	—	490-1942-2-ND	500	472.50	GRM55ER71H475MA01L
	X7R	25	10µF	±10%	2.0	490-1943-1-ND	107.80	637.00	1837.50	490-1943-2-ND	1,000	1764.00	GRM55DR71E106KA01L
	X7R	25	10µF	±20%	2.0	490-1944-1-ND	108.68	642.20	1852.50	490-1944-2-ND	1,000	1778.00	GRM55DR71E106MA01L
	X7R	25	15µF	±10%	2.5	490-1945-1-ND	53.82	318.05	—	490-1945-2-ND	500	440.50	GRM55ER71E156KA01L
	X7R	25	15µF	±20%	2.5	490-1946-1-ND	53.82	318.05	—	490-1946-2-ND	500	440.50	GRM55ER71E156MA01L
	X5R	6.3	100µF	±10%	3.2	490-1947-1-ND	160.18	946.53	—	490-1947-2-ND	300	786.30	GRM55FR60J107KA01L
	Y5V	100	.47µF	+80, -20%	1.8	490-1948-1-ND	39.28	232.12	669.56	490-1948-2-ND	1,000	643.00	GRM55RF52A474ZA01L
	Y5V	100	.68µF	+80, -20%	1.8	490-1949-1-ND	81.02	478.73	1380.94	490-1949-2-ND	1,000	1326.00	GRM55RF52A684ZD01L
	Y5V	50	3.3µF	+80, -20%	1.8	490-1950-1-ND	102.70	606.84	1750.50	—	—	—	GRM55RF51H335ZD01L
	Y5V	50	4.7µF	+80, -20%	1.8	490-1951-1-ND	153.74	908.44	2620.50	490-1951-2-ND	1,000	2516.00	GRM55RF51H475ZD01L

Monolithic Ceramic Capacitors for Automotive GCM Series

Features: • Meets AEC-Q200 requirements • Higher resistance of solder-leaching due to the Ni-barriered termination, applicable for reflow soldering and flow soldering *(0603, 0805 and 1206 only)*

Applications: Automotive electronic equipment power train, safety equipment

Operating Temperature Range: -55°C ~ 125°C

Size Code	Dimensions – mm L	W	E	G min.
0402	1.0	0.5	0.15 ~ 0.3	0.4
0603	1.6	0.8	0.2 ~ 0.5	0.5
0805	2.0	1.25	0.2 ~ 0.7	0.7
1206	3.2	1.6	0.3 ~ 0.8	1.5
1210	3.2	2.5	0.3	1.0

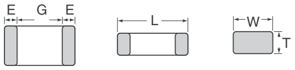

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
0402	C0G	50	1pF	±0.25pF	0.5	490-4757-1-ND	.65	3.84	11.06	490-4757-2-ND	10,000	11.00/M	GCM1555C1H1R0CZ13D
	C0G	50	1.5pF	±0.25pF	0.5	490-4916-1-ND	.65	3.84	11.06	490-4916-2-ND	10,000	11.00/M	GCM1555C1H1R5CZ13D
	C0G	50	2.2pF	±0.25pF	0.5	490-4917-1-ND	.65	3.84	11.06	490-4917-2-ND	10,000	11.00/M	GCM1555C1H2R2CZ13D
	C0G	50	3.3pF	±0.25pF	0.5	490-4918-1-ND	.65	3.84	11.06	490-4918-2-ND	10,000	11.00/M	GCM1555C1H3R3CZ13D
	C0G	50	4.7pF	±0.25pF	0.5	490-4919-1-ND	.65	3.84	11.06	490-4919-2-ND	10,000	11.00/M	GCM1555C1H4R7CZ13D
	C0G	50	6.8pF	±0.5pF	0.5	490-4920-1-ND	.65	3.84	11.06	490-4920-2-ND	10,000	11.00/M	GCM1555C1H6R8DZ13D
	C0G	50	10pF	±5%	0.5	490-4755-1-ND	.65	3.84	11.06	490-4755-2-ND	10,000	11.00/M	GCM1555C1H100JZ13D
	C0G	50	15pF	±5%	0.5	490-4921-1-ND	.54	3.19	9.19	490-4921-2-ND	10,000	9.00/M	GCM1555C1H150JZ13D
	C0G	50	22pF	±5%	0.5	490-4922-1-ND	.54	3.19	9.19	490-4922-2-ND	10,000	9.00/M	GCM1555C1H220JZ13D
	C0G	50	33pF	±5%	0.5	490-4923-1-ND	.54	3.19	9.19	490-4923-2-ND	10,000	9.00/M	GCM1555C1H330JZ13D
	C0G	50	47pF	±5%	0.5	490-4924-1-ND	.54	3.19	9.19	490-4924-2-ND	10,000	9.00/M	GCM1555C1H470JZ13D
	C0G	50	68pF	±5%	0.5	490-4925-1-ND	.54	3.19	9.19	490-4925-2-ND	10,000	9.00/M	GCM1555C1H680JZ13D
	C0G	50	100pF	±5%	0.5	490-4756-1-ND	.54	3.19	9.19	490-4756-2-ND	10,000	9.00/M	GCM1555C1H101JZ13D
	C0G	50	150pF	±5%	0.5	490-4926-1-ND	.44	2.60	7.50	490-4926-2-ND	10,000	7.00/M	GCM1555C1H151JA16D
	C0G	50	220pF	±5%	0.5	490-4927-1-ND	.51	2.99	8.63	490-4927-2-ND	10,000	8.00/M	GCM1555C1H221JA16D
	C0G	50	330pF	±5%	0.5	490-4928-1-ND	.58	3.45	9.94	490-4928-2-ND	10,000	10.00/M	GCM1555C1H331JA16D
	C0G	50	470pF	±5%	0.5	490-4758-1-ND	.59	3.51	12.29	490-4758-2-ND	10,000	10.00/M	GCM1555C1H471JA16D
	X7R	16	0.1µF	±10%	0.5	490-4759-1-ND	.42	2.47	7.13	490-4759-2-ND	10,000	7.00/M	GCM155R71C104KA55D
	X7R	25	0.047µF	±10%	0.5	490-4760-1-ND	.54	3.19	9.19	490-4760-2-ND	10,000	9.00/M	GCM155R71E473KA55D
	X7R	50	220pF	±10%	0.5	490-4912-1-ND	.37	2.21	6.38	490-4912-2-ND	10,000	6.00/M	GCM155R71H221KA37D
	X7R	50	470pF	±10%	0.5	490-4913-1-ND	.37	2.21	6.38	490-4913-2-ND	10,000	6.00/M	GCM155R71H471KA37D
	X7R	50	1000pF	±10%	0.5	490-4761-1-ND	.31	1.82	5.25	490-4761-2-ND	10,000	5.00/M	GCM155R71H102KA37D
	X7R	50	2200pF	±10%	0.5	490-4914-1-ND	.32	1.89	5.44	490-4914-2-ND	10,000	5.00/M	GCM155R71H222KA37D
	X7R	50	4700pF	±10%	0.5	490-4915-1-ND	.28	1.63	4.69	490-4915-2-ND	10,000	5.00/M	GCM155R71H472KA37D
	X7R	50	0.01µF	±10%	0.5	490-4762-1-ND	.31	1.82	5.25	490-4762-2-ND	10,000	5.00/M	GCM155R71H103KA55D
	X7R	50	0.022µF	±10%	0.5	490-4763-1-ND	.48	2.86	8.25	490-4763-2-ND	10,000	8.00/M	GCM155R71H223KA55D
	X7R	100	220pF	±10%	0.5	490-4909-1-ND	.42	2.47	7.13	490-4909-2-ND	10,000	7.00/M	GCM155R72A221KA37D
	X7R	100	470pF	±10%	0.5	490-4910-1-ND	.42	2.47	7.13	490-4910-2-ND	10,000	7.00/M	GCM155R72A471KA37D
	X7R	100	1000pF	±10%	0.5	490-4764-1-ND	.42	2.47	7.13	490-4764-2-ND	10,000	7.00/M	GCM155R72A102KA37D
	X7R	100	2200pF	±10%	0.5	490-4911-1-ND	.36	2.15	6.19	490-4911-2-ND	10,000	6.00/M	GCM155R72A222KA37D
	X7R	100	4700pF	±10%	0.5	490-4765-1-ND	.36	2.15	6.19	490-4765-2-ND	10,000	6.00/M	GCM155R72A472KA37D
0603	C0G	50	1pF	±0.25pF	0.8	490-4769-1-ND	1.41	8.32	24.00	490-4769-2-ND	4,000	23.00/M	GCM1885C1H1R0CZ13D
	C0G	50	1.5pF	±0.25pF	0.8	490-4952-1-ND	1.41	8.32	24.00	490-4952-2-ND	4,000	23.00/M	GCM1885C1H1R5CZ13D
	C0G	50	2.2pF	±0.25pF	0.8	490-4953-1-ND	1.41	8.32	24.00	490-4953-2-ND	4,000	23.00/M	GCM1885C1H2R2CZ13D
	C0G	50	3.3pF	±0.25pF	0.8	490-4954-1-ND	1.41	8.32	24.00	490-4954-2-ND	4,000	23.00/M	GCM1885C1H3R3CZ13D
	C0G	50	4.7pF	±0.25pF	0.8	490-4955-1-ND	1.41	8.32	24.00	490-4955-2-ND	4,000	23.00/M	GCM1885C1H4R7CZ13D
	C0G	50	6.8pF	±0.5pF	0.8	490-4956-1-ND	1.41	8.32	24.00	490-4956-2-ND	4,000	23.00/M	GCM1885C1H6R8DZ13D
	C0G	50	10pF	±5%	0.8	490-4766-1-ND	.56	3.32	11.60	490-4766-2-ND	4,000	9.00/M	GCM1885C1H100JA16D
	C0G	50	15pF	±5%	0.8	490-4957-1-ND	.56	3.32	9.56	490-4957-2-ND	4,000	9.00/M	GCM1885C1H150JA16D
	C0G	50	22pF	±5%	0.8	490-4958-1-ND	.62	3.64	10.50	490-4958-2-ND	4,000	10.00/M	GCM1885C1H220JA16D
	C0G	50	33pF	±5%	0.8	490-4959-1-ND	.62	3.64	10.50	490-4959-2-ND	4,000	10.00/M	GCM1885C1H330JA16D
	C0G	50	47pF	±5%	0.8	490-4960-1-ND	.62	3.64	10.50	490-4960-2-ND	4,000	10.00/M	GCM1885C1H470JA16D
	C0G	50	68pF	±5%	0.8	490-4961-1-ND	.62	3.64	10.50	490-4961-2-ND	4,000	10.00/M	GCM1885C1H680JA16D
	C0G	50	100pF	±5%	0.8	490-4767-1-ND	.62	3.64	10.50	490-4767-2-ND	4,000	10.00/M	GCM1885C1H101JA16D
	C0G	50	150pF	±5%	0.8	490-4962-1-ND	.75	4.42	12.75	490-4962-2-ND	4,000	12.00/M	GCM1885C1H151JA16D
	C0G	50	220pF	±5%	0.8	490-4963-1-ND	.80	4.75	13.69	490-4963-2-ND	4,000	13.00/M	GCM1885C1H221JA16D
	C0G	50	330pF	±5%	0.8	490-4964-1-ND	.78	4.62	13.31	490-4964-2-ND	4,000	13.00/M	GCM1885C1H331JA16D
	C0G	50	470pF	±5%	0.8	490-4965-1-ND	.77	4.55	13.13	490-4965-2-ND	4,000	13.00/M	GCM1885C1H471JA16D
	C0G	50	680pF	±5%	0.8	490-4966-1-ND	1.11	6.57	18.94	490-4966-2-ND	4,000	18.00/M	GCM1885C1H681JA16D
	C0G	50	1000pF	±5%	0.8	490-4768-1-ND	.73	4.29	12.38	490-4768-2-ND	4,000	12.00/M	GCM1885C1H102JA16D
	C0G	50	1500pF	±5%	0.8	490-4967-1-ND	.91	5.40	15.56	490-4967-2-ND	4,000	15.00/M	GCM1885C1H152JA16D
	C0G	50	2200pF	±5%	0.8	490-4968-1-ND	.97	5.72	16.50	490-4968-2-ND	4,000	16.00/M	GCM1885C1H222JA16D
	C0G	50	3300pF	±5%	0.8	490-5315-1-ND	1.55	9.17	26.44	490-5315-2-ND	4,000	25.00/M	GCM1885C1H332JA16D
	C0G	100	1pF	±0.25pF	0.8	490-4773-1-ND	2.63	15.54	44.81	490-4773-2-ND	4,000	43.00/M	GCM1885C2A1R0CZ13D
	C0G	100	1.5pF	±0.25pF	0.8	490-4936-1-ND	2.63	15.54	44.81	490-4936-2-ND	4,000	43.00/M	GCM1885C2A1R5CZ13D
	C0G	100	2.2pF	±0.25pF	0.8	490-4937-1-ND	2.63	15.54	44.81	490-4937-2-ND	4,000	43.00/M	GCM1885C2A2R2CZ13D
	C0G	100	3.3pF	±0.25pF	0.8	490-4938-1-ND	2.63	15.54	44.81	490-4938-2-ND	4,000	43.00/M	GCM1885C2A3R3CZ13D
	C0G	100	4.7pF	±0.25pF	0.8	490-4939-1-ND	2.63	15.54	44.81	490-4939-2-ND	4,000	43.00/M	GCM1885C2A4R7CZ13D
	C0G	100	6.8pF	±0.5pF	0.8	490-4940-1-ND	2.63	15.54	44.81	490-4940-2-ND	4,000	43.00/M	GCM1885C2A6R8DZ13D
	C0G	100	10pF	±5%	0.8	490-4770-1-ND	.78	4.62	13.31	490-4770-2-ND	4,000	13.00/M	GCM1885C2A100JA16D
	C0G	100	15pF	±5%	0.8	490-4941-1-ND	.75	4.42	12.75	490-4941-2-ND	4,000	12.00/M	GCM1885C2A150JA16D
	C0G	100	22pF	±5%	0.8	490-4942-1-ND	.75	4.42	12.75	490-4942-2-ND	4,000	12.00/M	GCM1885C2A220JA16D
	C0G	100	33pF	±5%	0.8	490-4943-1-ND	.70	4.16	12.00	490-4943-2-ND	4,000	12.00/M	GCM1885C2A330JA16D
	C0G	100	47pF	±5%	0.8	490-4944-1-ND	.75	4.42	12.75	490-4944-2-ND	4,000	12.00/M	GCM1885C2A470JA16D
	C0G	100	68pF	±5%	0.8	490-4945-1-ND	.75	4.42	12.75	490-4945-2-ND	4,000	12.00/M	GCM1885C2A680JA16D
	C0G	100	100pF	±5%	0.8	490-4771-1-ND	.75	4.42	12.75	490-4771-2-ND	4,000	12.00/M	GCM1885C2A101JA16D
	C0G	100	150pF	±5%	0.8	490-4946-1-ND	.80	4.75	16.61	490-4946-2-ND	4,000	13.00/M	GCM1885C2A151JA16D
	C0G	100	220pF	±5%	0.8	490-4947-1-ND	1.05	6.18	17.81	490-4947-2-ND	4,000	17.00/M	GCM1885C2A221JA16D
	C0G	100	330pF	±5%	0.8	490-4948-1-ND	1.13	6.70	19.31	490-4948-2-ND	4,000	19.00/M	GCM1885C2A331JA16D
	C0G	100	470pF	±5%	0.8	490-4949-1-ND	1.27	7.48	21.56	490-4949-2-ND	4,000	21.00/M	GCM1885C2A471JA16D
	C0G	100	680pF	±5%	0.8	490-4950-1-ND	1.46	8.65	24.94	490-4950-2-ND	4,000	24.00/M	GCM1885C2A681JA16D
	C0G	100	1000pF	±5%	0.8	490-4772-1-ND	1.01	5.98	17.25	490-4772-2-ND	4,000	17.00/M	GCM1885C2A102JA16D

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	C0G	100	1500pF	±5%	0.8	490-4951-1-ND	1.36	8.06	23.25	490-4951-2-ND	4,000	22.00/M	GCM1885C2A152JA16D
	X7R	6.3	2.2µF	±10%	0.8	490-5316-1-ND	4.47	26.39	76.13	490-5316-2-ND	4,000	73.00/M	GCM188R70J225KE22D
	X7R	16	0.1µF	±10%	0.8	490-4774-1-ND	.54	3.19	9.19	490-4774-2-ND	4,000	9.00/M	GCM188R71C104KA37D
	X7R	16	0.47µF	±10%	0.8	490-4775-1-ND	1.50	8.84	25.50	490-4775-2-ND	4,000	24.00/M	GCM188R71C474KA55D
	X7R	16	1µF	±10%	0.8	490-5241-1-ND	3.61	21.32	61.50	490-5241-2-ND	4,000	59.00/M	GCM188R71C105KA64D
	X7R	25	0.22µF	±10%	0.8	490-4935-1-ND	1.41	8.32	24.00	490-4935-2-ND	4,000	23.00/M	GCM188R71E224KA55D
	X7R	25	0.47µF	±10%	0.8	490-4776-1-ND	1.65	9.75	28.13	490-4776-2-ND	4,000	27.00/M	GCM188R71E474KA64D
	X7R	50	1000pF	±10%	0.8	490-4777-1-ND	.42	2.47	7.13	490-4777-2-ND	4,000	7.00/M	GCM188R71H102KA37D
	X7R	50	2200pF	±10%	0.8	490-4931-1-ND	.39	2.28	7.96	490-4931-2-ND	4,000	6.00/M	GCM188R71H222KA37D
	X7R	50	4700pF	±10%	0.8	490-4932-1-ND	.39	2.28	7.96	490-4932-2-ND	4,000	6.00/M	GCM188R71H472KA37D
	X7R	50	22000pF	±10%	0.8	490-4933-1-ND	.64	3.77	10.88	490-4933-2-ND	4,000	10.00/M	GCM188R71H223KA37D
	X7R	50	47000pF	±10%	0.8	490-4934-1-ND	.89	5.27	15.19	490-4934-2-ND	4,000	15.00/M	GCM188R71H473KA55D
	X7R	50	0.01µF	±10%	0.8	490-4778-1-ND	.43	2.54	7.31	490-4778-2-ND	4,000	7.00/M	GCM188R71H103KA37D
	X7R	50	0.1µF	±10%	0.8	490-4779-1-ND	.76	4.49	12.94	490-4779-2-ND	4,000	12.00/M	GCM188R71H104KA57D
	X7R	50	0.22µF	±10%	0.8	490-5402-1-ND ***NEW!***	2.24	13.26	38.25	490-5402-2-ND ***NEW!***	4,000	37.00/M	GCM188R71H224KA64D
	X7R	100	1000pF	±10%	0.8	490-4780-1-ND	.59	3.51	10.13	490-4780-2-ND	4,000	10.00/M	GCM188R72A102KA37D
	X7R	100	0.01µF	±10%	0.8	490-4781-1-ND	.62	3.64	10.50	490-4781-2-ND	4,000	10.00/M	GCM188R72A103KA37D
	X7R	100	0.022µF	±10%	0.8	490-4782-1-ND	.94	5.53	15.94	490-4782-2-ND	4,000	15.00/M	GCM188R72A223KA37D
	X7R	100	2200pF	±10%	0.8	490-4929-1-ND	.61	3.58	10.31	490-4929-2-ND	4,000	10.00/M	GCM188R72A222KA37D
	X7R	100	4700pF	±10%	0.8	490-4930-1-ND	.81	4.81	13.88	490-4930-2-ND	4,000	13.00/M	GCM188R72A472KA37D
0805	C0G	50	4700pF	±5%	0.6	490-4973-1-ND	2.35	13.91	40.13	490-4973-2-ND	4,000	39.00/M	GCM2165C1H472JA16D
	C0G	50	6800pF	±5%	0.85	490-4974-1-ND	2.95	17.42	50.25	490-4974-2-ND	4,000	48.00/M	GCM2195C1H682JA16D
	C0G	50	15000pF	±5%	0.85	490-5317-1-ND	5.10	30.16	87.00	490-5317-2-ND	4,000	84.00/M	GCM2195C1H153JA16D
	C0G	50	22000pF	±5%	1.25	490-5318-1-ND	5.14	30.36	87.56	490-5318-2-ND	3,000	84.00/M	GCM21B5C1H223JA16L
	C0G	50	0.01µF	±5%	0.85	490-4783-1-ND	3.99	23.60	68.06	490-4783-2-ND	4,000	65.00/M	GCM2195C1H103JA16D
	C0G	100	2200pF	±5%	0.6	490-4971-1-ND	2.12	12.55	36.19	490-4971-2-ND	4,000	35.00/M	GCM2165C2A222JA16D
	C0G	100	3300pF	±5%	0.6	490-4972-1-ND	2.63	15.54	44.81	490-4972-2-ND	4,000	43.00/M	GCM2165C2A332JA16D
	U2J	250	100pF	±5%	1.0	490-5024-1-ND	4.27	25.22	72.75	490-5024-2-ND	4,000	70.00/M	GCM21A7U2E101JX01D
	U2J	250	150pF	±5%	1.0	490-5025-1-ND	4.72	27.89	80.44	490-5025-2-ND	4,000	77.00/M	GCM21A7U2E151JX01D
	U2J	250	220pF	±5%	1.0	490-5026-1-ND	4.85	28.67	82.69	490-5026-2-ND	4,000	79.00/M	GCM21A7U2E221JX01D
	U2J	250	330pF	±5%	1.0	490-5027-1-ND	5.45	32.18	92.81	490-5027-2-ND	4,000	89.00/M	GCM21A7U2E331JX01D
	U2J	250	470pF	±5%	1.0	490-5028-1-ND	6.35	37.51	108.19	490-5028-2-ND	4,000	104.00/M	GCM21A7U2E471JX01D
	U2J	250	680pF	±5%	1.0	490-5029-1-ND	6.35	37.51	108.19	490-5029-2-ND	4,000	104.00/M	GCM21A7U2E681JX01D
	U2J	250	1000pF	±5%	1.0	490-5030-1-ND	6.35	37.51	108.19	490-5030-2-ND	4,000	104.00/M	GCM21A7U2E102JX01D
	U2J	250	1500pF	±5%	1.0	490-5031-1-ND	6.35	37.51	108.19	490-5031-2-ND	4,000	104.00/M	GCM21A7U2E152JX01D
	U2J	250	2200pF	±5%	1.0	490-5032-1-ND	6.35	37.51	108.19	490-5032-2-ND	4,000	104.00/M	GCM21A7U2E222JX01D
	X7R	6.3	10µF	±10%	1.25	490-5319-1-ND	8.92	52.72	152.06	490-5319-2-ND	3,000	146.00/M	GCM21BR70J106KE22L
	X7R	16	2.2µF	±10%	1.25	490-4786-1-ND	4.05	23.92	69.00	490-4786-2-ND	3,000	66.00/M	GCM21BR71C225KA64L
	X7R	16	4.7µF	±10%	1.25	490-5332-1-ND	9.33	55.12	159.00	490-5332-2-ND	3,000	153.00/M	GCM21BR71C475KA73L
	X7R	25	1µF	±10%	1.25	490-4785-1-ND	2.32	13.72	39.56	490-4785-2-ND	3,000	38.00/M	GCM21BR71E105KA56L
	X7R	25	2.2µF	±10%	1.25	490-4787-1-ND	8.02	47.39	136.69	490-4787-2-ND	3,000	131.00/M	GCM21BR71E225KA73L
	X7R	35	1µF	±10%	1.25	490-5320-1-ND	5.29	31.27	90.19	490-5320-2-ND	3,000	87.00/M	GCM21BR7YA105KA55L
	X7R	50	0.22µF	±10%	1.25	490-4970-1-ND	2.56	15.15	43.69	490-4970-2-ND	3,000	42.00/M	GCM21BR71H224KA37L
	X7R	50	0.47µF	±10%	1.25	490-4788-1-ND	3.96	23.40	67.50	490-4788-2-ND	3,000	65.00/M	GCM21BR71H474KA55L
	X7R	100	47000pF	±10%	1.25	490-4969-1-ND	2.07	12.22	35.25	490-4969-2-ND	3,000	34.00/M	GCM21BR72A473KA37L
	X7R	100	0.1µF	±10%	1.25	490-4789-1-ND	1.94	11.44	33.00	490-4789-2-ND	3,000	32.00/M	GCM21BR72A104KA37L
1206	C0G	50	33000pF	±5%	0.85	490-5321-1-ND	7.63	45.11	130.13	490-5321-2-ND	4,000	125.00/M	GCM3195C1H333JA16D
	C0G	50	47000pF	±5%	1.15	490-5324-1-ND	8.29	49.01	141.38	490-5324-2-ND	3,000	136.00/M	GCM31M5C1H473JA16L
	C0G	50	68000pF	±5%	1.6	490-5323-1-ND	11.61	68.58	197.81	490-5323-2-ND	2,000	190.00/M	GCM31C5C1H683JA16L
	C0G	50	0.022µF	±5%	0.85	490-4790-1-ND	6.95	41.08	118.50	490-4790-2-ND	4,000	114.00/M	GCM3195C1H223JA16D
	C0G	50	0.1µF	±5%	1.6	490-5322-1-ND	12.69	75.01	216.38	490-5322-2-ND	2,000	208.00/M	GCM31C5C1H104JA16L
	C0G	100	4700pF	±5%	0.85	490-4976-1-ND	7.44	43.94	126.75	490-4976-2-ND	4,000	122.00/M	GCM3195C2A472JA16D
	C0G	100	5600pF	±5%	0.85	490-4791-1-ND	8.02	47.39	136.69	490-4791-2-ND	4,000	131.00/M	GCM3195C2A562JA16D
	C0G	100	6800pF	±5%	0.85	490-4977-1-ND	8.44	49.86	143.81	490-4977-2-ND	4,000	138.00/M	GCM3195C2A682JA16D
	C0G	100	10000pF	±5%	0.85	490-4978-1-ND	9.46	55.90	161.25	490-4978-2-ND	4,000	155.00/M	GCM3195C2A103JA16D
	U2J	250	3300pF	±5%	1.0	490-5033-1-ND	6.79	40.11	115.69	490-5033-2-ND	4,000	111.00/M	GCM31A7U2E332JX01D
	U2J	250	4700pF	±5%	1.0	490-5034-1-ND	6.79	40.11	115.69	490-5034-2-ND	4,000	111.00/M	GCM31A7U2E472JX01D
	U2J	250	6800pF	±5%	1.25	490-5035-1-ND	8.33	49.21	141.94	490-5035-2-ND	3,000	136.00/M	GCM31B7U2E682JX01L
	U2J	250	10000pF	±5%	1.25	490-5036-1-ND	8.33	49.21	141.94	490-5036-2-ND	3,000	136.00/M	GCM31B7U2E103JX01L
	U2J	630	10pF	±5%	1.0	490-5037-1-ND	7.10	41.93	120.94	490-5037-2-ND	4,000	116.00/M	GCM31A7U2J100JX01D
	U2J	630	15pF	±5%	1.0	490-5038-1-ND	7.10	41.93	120.94	490-5038-2-ND	4,000	116.00/M	GCM31A7U2J150JX01D
	U2J	630	22pF	±5%	1.0	490-5039-1-ND	7.10	41.93	120.94	490-5039-2-ND	4,000	116.00/M	GCM31A7U2J220JX01D
	U2J	630	33pF	±5%	1.0	490-5040-1-ND	7.10	41.93	120.94	490-5040-2-ND	4,000	116.00/M	GCM31A7U2J330JX01D
	U2J	630	47pF	±5%	1.0	490-5041-1-ND	6.69	39.52	114.00	490-5041-2-ND	4,000	109.00/M	GCM31A7U2J470JX01D
	U2J	630	68pF	±5%	1.0	490-5042-1-ND	7.10	41.93	120.94	490-5042-2-ND	4,000	116.00/M	GCM31A7U2J680JX01D
	U2J	630	100pF	±5%	1.0	490-5043-1-ND	6.12	36.14	104.25	490-5043-2-ND	4,000	100.00/M	GCM31A7U2J101JX01D
	U2J	630	150pF	±5%	1.0	490-5044-1-ND	6.02	35.56	102.56	490-5044-2-ND	4,000	98.00/M	GCM31A7U2J151JX01D
	U2J	630	220pF	±5%	1.0	490-5045-1-ND	6.39	37.77	108.94	490-5045-2-ND	4,000	105.00/M	GCM31A7U2J221JX01D
	U2J	630	330pF	±5%	1.0	490-5046-1-ND	6.39	37.77	108.94	490-5046-2-ND	4,000	105.00/M	GCM31A7U2J331JX01D
	U2J	630	470pF	±5%	1.0	490-5047-1-ND	6.39	37.77	108.94	490-5047-2-ND	4,000	105.00/M	GCM31A7U2J471JX01D
	U2J	630	680pF	±5%	1.0	490-5048-1-ND	6.70	39.59	114.19	490-5048-2-ND	4,000	110.00/M	GCM31A7U2J681JX01D
	U2J	630	1000pF	±5%	1.0	490-5049-1-ND	6.99	41.28	119.06	490-5049-2-ND	4,000	114.00/M	GCM31A7U2J102JX01D
	X7R	6.3	22µF	±10%	1.6	490-4843-1-ND	23.79	140.60	405.56	490-4843-2-ND	2,000	389.00/M	GCM31CR70J226KE23L
	X7R	10	10µF	±10%	1.6	490-4792-1-ND	8.16	48.23	139.13	490-4792-2-ND	2,000	134.00/M	GCM31CR71A106KA64L
	X7R	16	10µF	±10%	1.6	490-4793-1-ND	18.52	109.46	315.75	490-4793-2-ND	2,000	303.00/M	GCM31CR71C106KA64L
	X7R	25	4.7µF	±10%	1.6	490-4794-1-ND	7.11	41.99	121.13	490-4794-2-ND	2,000	116.00/M	GCM31CR71E475KA55L
	X7R	50	1µF	±10%	1.15	490-4795-1-ND	4.77	28.21	81.38	490-4795-2-ND	3,000	78.00/M	GCM31MR71H105KA55L
	X7R	50	2.2µF	±10%	1.6	490-4796-1-ND	5.75	34.00	98.06	490-4796-2-ND	2,000	94.00/M	GCM31CR71H225KA55L
	X7R	100	0.22µF	±10%	1.15	490-4975-1-ND	4.27	25.22	72.75	490-4975-2-ND	3,000	70.00/M	GCM31MR72A224KA37L
1210	U2J	630	1500pF	±5%	1.0	490-5050-1-ND	16.09	95.10	274.31	490-5050-2-ND	4,000	263.00/M	GCM32A7U2J152JX01D
	U2J	630	2200pF	±5%	1.0	490-5051-1-ND	16.09	95.10	274.31	490-5051-2-ND	4,000	263.00/M	GCM32A7U2J222JX01D
	X7R	6.3	47µF	±10%	2.5	490-4844-1-ND	42.27	249.80	720.56	490-4844-2-ND	1,000	692.00	GCM32ER70J476KE19L
	X7R	10	22µF	±10%	2.5	490-4797-1-ND	30.61	180.90	521.81	490-4797-2-ND	1,000	501.00	GCM32ER71A226KE12L
	X7R	16	22µF	±10%	2.5	490-5242-1-ND	40.77	240.89	694.88	490-5242-2-ND	1,000	667.00	GCM32ER71C226KE19L
	X7R	25	10µF	±10%	2.5	490-4798-1-ND	19.58	115.70	333.75	490-4798-2-ND	1,000	320.00	GCM32ER71E106KA57L
	X7R	50	4.7µF	±10%	2.5	490-4799-1-ND	30.61	180.90	521.81	490-4799-2-ND	1,000	501.00	GCM32ER71H475KA55L
	X7R	100	2.2µF	±10%	2.0	490-4979-1-ND	37.38	220.87	637.13	490-4979-2-ND	1,000	510.00	GCM32DR72A225KA64L

Monolithic Ceramic Chip Capacitors — Low ESL and Low Profile

Murata offers standard and low profile low inductance products. Murata's low ESL capacitors are suitable for high-speed microprocessors and high frequency digital equipment.
Specifications: • Plating: Ni and Matte Sn **• Operating Temperature:** • X6S: -55°C ~ 105°C ±22% • X7R: -55°C ~ 125°C ±15% • X7S: -55°C ~ 125°C ±22%

LLL Series — Reversed Geometry:
Features: • Low inductance • Suitable for noise reduction for high frequency

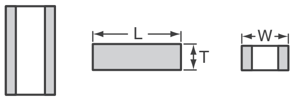

LLA Series — Eight Terminals:
Features: • Low ESL (100pH) • Suitable to decoupling for 1GHz clock speed ICs

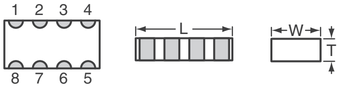

LLM Series — Ten Terminals:
Features: • Low ESL (45pH) • Suitable to decoupling for 2GHz clock speed ICs

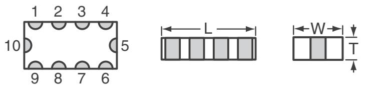

Size Code	Type	WV DC	Capacitance	Tolerance	Dimensions – mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
					L	W	T		10	100	500		Qty.	Pricing	
LLL Series — Reversed Geometry															
0204	X6S	6.3	.1µF	±20%	1.0	0.5	0.3	490-4310-1-ND	1.75	10.34	29.81	490-4310-2-ND	10,000	22.66/M	LLL153C80J104ME01E
0306	X7R	6.3	.22µF	±20%	1.6	0.8	0.5	490-4323-1-ND	2.43	14.37	41.44	490-4323-2-ND	4,000	40.00/M	LLL185R70J224MA01L
	X7R	10	.1µF	±20%	1.6	0.8	0.5	490-4333-1-ND	2.56	15.15	43.69	490-4333-2-ND	4,000	42.00/M	LLL185R71A104MA11L
	X7R	10	.1µF	±20%	1.6	0.8	0.5	490-4321-1-ND	2.24	13.26	38.25	490-4321-2-ND	4,000	37.00/M	LLL185R71A104MA01L
	X7R	16	10000pF	±20%	1.6	0.8	0.5	490-4751-1-ND	3.15	18.59	53.63	490-4751-2-ND	4,000	51.00/M	LLL185R71C103MA11L
	X7R	16	22000pF	±20%	1.6	0.8	0.5	490-4330-1-ND	3.49	20.61	59.44	490-4330-2-ND	4,000	57.00/M	LLL185R71C223MA11L
	X7R	16	47000pF	±20%	1.6	0.8	0.5†	490-4319-1-ND	4.05	23.92	69.00	490-4319-2-ND	4,000	66.00/M	LLL185R71C473MA01L
	X7R	16	47000pF	±20%	1.6	0.8	0.5‡	490-4332-1-ND	3.59	21.19	61.13	490-4332-2-ND	4,000	59.00/M	LLL185R71C473MA11L
	X7R	25	10000pF	±20%	1.6	0.8	0.5	490-4328-1-ND	3.19	18.85	54.38	490-4328-2-ND	4,000	52.00/M	LLL185R71E103MA11L
	X7R	25	10000pF	±20%	1.6	0.8	0.5	490-4315-1-ND	2.99	17.68	51.00	490-4315-2-ND	4,000	49.00/M	LLL185R71E103MA01L
	X7R	25	22000pF	±20%	1.6	0.8	0.5	490-4317-1-ND	3.75	22.17	63.94	490-4317-2-ND	4,000	61.00/M	LLL185R71E223MA01L
	X7S	4	.22µF	±20%	1.6	0.8	0.5	490-4335-1-ND	3.78	22.36	64.50	490-4335-2-ND	4,000	62.00/M	LLL185C70G224MA11L
	X7S	4	.47µF	±20%	1.6	0.8	0.5	490-4325-1-ND	3.14	18.53	53.44	490-4325-2-ND	4,000	51.00/M	LLL185C70G474MA01L
	X7S	4	1µF	±20%	1.6	0.8	0.5	490-4327-1-ND	2.78	16.45	47.44	490-4327-2-ND	4,000	46.00/M	LLL185C70G105ME01L
0508	X7R	6.3	.47µF	±20%	2.0	1.25	0.5	490-4368-1-ND	4.60	27.17	78.38	490-4368-2-ND	4,000	75.00/M	LLL215R70J474MA11L
	X7R	6.3	1µF	±20%	2.0	1.25	0.85	490-4354-1-ND	4.14	24.44	70.50	490-4354-2-ND	3,000	68.00/M	LLL219R70J105MA01L
	X7R	10	.22µF	±20%	2.0	1.25	0.5	490-4366-1-ND	4.44	26.26	75.75	490-4366-2-ND	4,000	73.00/M	LLL215R71A224MA11L
	X7R	10	.22µF	±20%	2.0	1.25	0.6	490-4350-1-ND	5.26	31.07	89.63	490-4350-2-ND	4,000	86.00/M	LLL216R71A224MA01L
	X7R	10	.47µF	±20%	2.0	1.25	0.85	490-4352-1-ND	5.35	31.59	91.13	490-4352-2-ND	3,000	87.00/M	LLL219R71A474MA01L
	X7R	16	47000pF	±20%	2.0	1.25	0.5	490-4362-1-ND	4.05	23.92	69.00	490-4362-2-ND	4,000	66.00/M	LLL215R71C473MA11L
	X7R	16	.1µF	±20%	2.0	1.25	0.5	490-4364-1-ND	4.25	25.09	72.38	490-4364-2-ND	4,000	69.00/M	LLL215R71C104MA11L
	X7R	25	22000pF	±20%	2.0	1.25	0.5	490-4360-1-ND	3.96	23.40	67.50	490-4360-2-ND	4,000	65.00/M	LLL215R71E223MA11L
	X7R	25	47000pF	±20%	2.0	1.25	0.6	490-4344-1-ND	4.86	28.73	82.88	490-4344-2-ND	4,000	80.00/M	LLL216R71E473MA01L
	X7R	25	1µF	±20%	2.0	1.25	0.6	490-4346-1-ND	3.73	22.04	63.56	490-4346-2-ND	4,000	61.00/M	LLL216R71E104MA01L
	X7R	50	2200pF	±20%	2.0	1.25	0.5	490-4752-1-ND	4.25	25.10	72.39	490-4752-2-ND	4,000	69.00/M	LLL215R71H222MA11L
	X7R	50	4700pF	±20%	2.0	1.25	0.6	490-4337-1-ND	4.37	25.81	74.44	490-4337-2-ND	4,000	71.00/M	LLL216R71H472MA01L
	X7R	50	10000pF	±20%	2.0	1.25	0.5	490-4358-1-ND	3.86	22.82	65.81	490-4358-2-ND	4,000	63.00/M	LLL215R71H103MA11L
	X7R	50	10000pF	±20%	2.0	1.25	0.6	490-4339-1-ND	3.12	18.46	53.25	490-4339-2-ND	4,000	51.00/M	LLL216R71H103MA01L
	X7R	50	22000pF	±20%	2.0	1.25	0.6	490-4341-1-ND	4.53	26.78	77.25	490-4341-2-ND	4,000	74.00/M	LLL216R71H223MA01L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4369-1-ND	4.68	27.63	79.69	490-4369-2-ND	4,000	77.00/M	LLL215C70G105MA11L
	X7S	4	2.2µF	±20%	2.0	1.25	0.85	490-4356-1-ND	5.78	34.13	98.44	490-4356-2-ND	3,000	95.00/M	LLL219C70G225MA01L
0612	X7R	6.3	2.2µF	±20%	3.2	1.6	0.7	490-4754-1-ND	6.84	40.43	116.63	490-4754-2-ND	4,000	112.00/M	LLL317R70J225MA01L
	X7R	6.3	4.7µF	±20%	3.2	1.6	1.15	490-4392-1-ND	9.64	56.94	164.25	490-4392-2-ND	3,000	158.00/M	LLL31MR70J475MA01L
	X7R	10	.47µF	±20%	3.2	1.6	0.5	490-4403-1-ND	3.23	19.11	55.13	490-4403-2-ND	4,000	53.00/M	LLL315R71A474MA11L
	X7R	10	1µF	±20%	3.2	1.6	0.7	490-4389-1-ND	3.20	18.92	54.56	490-4389-2-ND	4,000	52.00/M	LLL317R71A105MA01L
	X7R	10	2.2µF	±20%	3.2	1.6	1.15	490-4391-1-ND	6.62	39.13	112.88	490-4391-2-ND	3,000	108.00/M	LLL31MR71A225MA01L
	X7R	16	.22µF	±20%	3.2	1.6	0.5	490-4401-1-ND	5.83	34.45	99.38	490-4401-2-ND	4,000	95.00/M	LLL315R71C224MA11L
	X7R	16	.33µF	±20%	3.2	1.6	0.5	490-4402-1-ND	4.99	29.51	85.13	490-4402-2-ND	4,000	96.00/M	LLL315R71C334MA11L
	X7R	16	.47µF	±20%	3.2	1.6	0.7	490-4385-1-ND	6.02	35.56	102.56	490-4385-2-ND	4,000	98.00/M	LLL317R71C474MA01L
	X7R	16	1µF	±20%	3.2	1.6	1.15	490-4387-1-ND	4.54	26.85	77.44	490-4387-2-ND	3,000	74.00/M	LLL31MR71C105MA01L
	X7R	25	47000pF	±20%	3.2	1.6	0.5	490-4753-1-ND	4.50	26.59	76.69	490-4753-2-ND	4,000	74.00/M	LLL315R71E473MA11L
	X7R	25	.1µF	±20%	3.2	1.6	0.5	490-4399-1-ND	4.86	28.73	82.88	490-4399-2-ND	4,000	80.00/M	LLL315R71E104MA11L
	X7R	25	.1µF	±20%	3.2	1.6	0.7	490-4378-1-ND	4.27	25.22	72.75	490-4378-2-ND	4,000	70.00/M	LLL317R71E104MA01L
	X7R	25	.22µF	±20%	3.2	1.6	1.15	490-4380-1-ND	5.05	29.84	86.06	490-4380-2-ND	3,000	83.00/M	LLL31MR71E224MA01L
	X7R	25	.47µF	±20%	3.2	1.6	1.15	490-4382-1-ND	6.88	40.63	117.19	490-4382-2-ND	3,000	113.00/M	LLL31MR71E474MA01L
	X7R	50	10000pF	±20%	3.2	1.6	0.5	490-4394-1-ND	4.91	28.99	83.63	490-4394-2-ND	4,000	80.00/M	LLL315R71H103MA11L
	X7R	50	10000pF	±20%	3.2	1.6	0.7	490-4370-1-ND	4.40	26.02	75.06	490-4370-2-ND	4,000	85.00/M	LLL317R71H103MA01L
	X7R	50	22000pF	±20%	3.2	1.6	0.5	490-4396-1-ND	5.51	32.57	93.94	490-4396-2-ND	4,000	90.00/M	LLL315R71H223MA11L
	X7R	50	22000pF	±20%	3.2	1.6	0.7	490-4372-1-ND	5.37	31.72	91.50	490-4372-2-ND	4,000	88.00/M	LLL317R71H223MA01L
	X7R	50	47000pF	±20%	3.2	1.6	0.7	490-4374-1-ND	5.75	34.00	98.06	490-4374-2-ND	4,000	94.00/M	LLL317R71H473MA01L
	X7R	50	.1µF	±20%	3.2	1.6	1.15	490-4376-1-ND	5.90	34.84	100.50	490-4376-2-ND	3,000	96.00/M	LLL31MR71H104MA01L
	X7S	4	10µF	±20%	3.2	1.6	1.25	490-4393-1-ND	10.46	61.82	178.31	490-4393-2-ND	2,000	171.00/M	LLL31BC70G106MA01L
LLA Series — Eight Terminals															
0603	X7S	4	.47µF	±20%	1.6	0.8	0.5	490-4406-1-ND	4.80	28.34	81.75	490-4406-2-ND	4,000	78.00/M	LLA185C70G474MA01L
0805	X7R	6.3	.47µF	±20%	2.0	1.25	0.5	490-4748-1-ND	3.86	22.82	65.81	490-4748-2-ND	4,000	63.00/M	LLA215R70J474MA14L
	X7R	6.3	1µF	±20%	2.0	1.25	0.85	490-4420-1-ND	4.54	26.85	77.44	490-4420-2-ND	3,000	74.00/M	LLA219R70J105MA01L
	X7R	10	.22µF	±20%	2.0	1.25	0.5	490-4432-1-ND	4.60	27.17	78.38	490-4432-2-ND	4,000	75.00/M	LLA215R71A224MA14L
	X7R	10	.47µF	±20%	2.0	1.25	0.85	490-4418-1-ND	5.81	34.32	99.00	490-4418-2-ND	3,000	95.00/M	LLA219R71A474MA01L
	X7R	16	47000pF	±20%	2.0	1.25	0.5	490-4428-1-ND	5.75	34.00	98.06	490-4428-2-ND	4,000	94.00/M	LLA215R71C473MA14L
	X7R	16	.1µF	±20%	2.0	1.25	0.85	490-4414-1-ND	4.93	29.12	84.00	490-4414-2-ND	3,000	81.00/M	LLA219R71C104MA01L
	X7R	16	.22µF	±20%	2.0	1.25	0.85	490-4416-1-ND	5.70	33.67	97.13	490-4416-2-ND	3,000	93.00/M	LLA219R71C224MA01L
	X7R	25	10000pF	±20%	2.0	1.25	0.5	490-4424-1-ND	4.17	24.64	71.06	490-4424-2-ND	4,000	68.00/M	LLA215R71E103MA14L
	X7R	25	10000pF	±20%	2.0	1.25	0.85	490-4408-1-ND	7.07	41.80	120.56	490-4408-2-ND	3,000	116.00/M	LLA219R71E103MA01L
	X7R	25	22000pF	±20%	2.0	1.25	0.5	490-4426-1-ND	5.15	30.42	87.75	490-4426-2-ND	4,000	84.00/M	LLA215R71E223MA14L
	X7R	25	22000pF	±20%	2.0	1.25	0.85	490-4410-1-ND	7.37	43.55	125.63	490-4410-2-ND	3,000	121.00/M	LLA219R71E223MA01L
	X7R	25	47000pF	±20%	2.0	1.25	0.85	490-4412-1-ND	7.37	43.55	125.63	490-4412-2-ND	3,000	121.00/M	LLA219R71E473MA01L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4434-1-ND	5.64	33.35	96.19	490-4434-2-ND	4,000	92.00/M	LLA215C70G105MA14L
	X7S	4	2.2µF	±20%	2.0	1.25	0.85	490-4422-1-ND	4.80	28.34	81.75	490-4422-2-ND	3,000	78.00/M	LLA219C70G225MA01L

† Tolerance ±0.1mm ‡ Tolerance +0 / -0.15mm

(Continued)

Monolithic Ceramic Chip Capacitors

Low ESL and Low Profile *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimensions – mm L	Dimensions – mm W	Dimensions – mm T	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Part No.
1206	X7R	4	2.2µF	±20%	3.2	1.6	0.85	490-4446-1-ND	11.51	67.99	196.13	490-4446-2-ND	3,000	188.00/M	LLA319R70G225MA01L
	X7R	6.3	1µF	±20%	3.2	1.6	0.5	490-4452-1-ND	8.13	48.04	138.56	490-4452-2-ND	4,000	133.00/M	LLA315R70J105MA14L
	X7R	6.3	2.2µF	±20%	3.2	1.6	0.5	490-4454-1-ND	10.47	61.88	178.50	490-4454-2-ND	4,000	171.00/M	LLA315R70J225MA14L
	X7R	10	.47µF	±20%	3.2	1.6	0.5	490-4450-1-ND	8.06	47.65	137.44	490-4450-2-ND	4,000	132.00/M	LLA315R71A474MA14L
	X7R	10	1µF	±20%	3.2	1.6	0.85	490-4442-1-ND	8.58	50.70	146.25	490-4442-2-ND	3,000	140.00/M	LLA319R71A105MA01L
	X7R	16	.1µF	±20%	3.2	1.6	0.5	490-4749-1-ND	6.71	39.65	114.38	490-4749-2-ND	4,000	110.00/M	LLA315R71C104MA14L
	X7R	16	.1µF	±20%	3.2	1.6	0.85	490-4750-1-ND	7.34	43.36	125.06	490-4750-2-ND	3,000	120.00/M	LLA319R71C104MA01L
	X7R	16	.22µF	±20%	3.2	1.6	0.5	490-4448-1-ND	7.58	44.79	129.19	490-4448-2-ND	4,000	124.00/M	LLA315R71C224MA14L
	X7R	16	.22µF	±20%	3.2	1.6	0.85	490-4437-1-ND	8.84	52.26	150.75	490-4437-2-ND	3,000	145.00/M	LLA319R71C224MA01L
	X7R	16	.47µF	±20%	3.2	1.6	0.85	490-4439-1-ND	8.12	47.97	138.38	490-4439-2-ND	3,000	133.00/M	LLA319R71C474MA01L
LLM Series — Ten Terminals															
0805	X7R	6.3	.22µF	±20%	2.0	1.25	0.5	490-4478-1-ND	12.20	72.09	207.94	490-4478-2-ND	4,000	200.00/M	LLM215R70J224MA11L
	X7R	6.3	.47µF	±20%	2.0	1.25	0.5	490-4480-1-ND	7.81	46.15	133.13	490-4480-2-ND	4,000	128.00/M	LLM215R70J474MA11L
	X7R	16	47000pF	±20%	2.0	1.25	0.5	490-4474-1-ND	10.00	59.09	170.44	490-4474-2-ND	4,000	164.00/M	LLM215R71C473MA11L
	X7R	16	.1µF	±20%	2.0	1.25	0.5	490-4476-1-ND	9.48	56.03	161.63	490-4476-2-ND	4,000	155.00/M	LLM215R71C104MA11L
	X7R	25	10000pF	±20%	2.0	1.25	0.5	490-4470-1-ND	9.64	56.94	164.25	490-4470-2-ND	4,000	158.00/M	LLM215R71E103MA11L
	X7R	25	22000pF	±20%	2.0	1.25	0.5	490-4472-1-ND	9.04	53.43	154.13	490-4472-2-ND	4,000	148.00/M	LLM215R71E223MA11L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4482-1-ND	10.76	63.57	183.38	490-4482-2-ND	4,000	176.00/M	LLM215C70G105MA11L
	X7S	4	2.2µF	±20%	2.0	1.25	0.5	490-4484-1-ND	10.99	64.94	187.31	490-4484-2-ND	4,000	180.00/M	LLM215C70G225ME11L
1206	X7R	6.3	2.2µF	±20%	3.2	1.6	0.5	490-4501-1-ND	10.82	63.96	184.50	490-4501-2-ND	4,000	177.00/M	LLM315R70J225MA11L
	X7R	10	.47µF	±20%	3.2	1.6	0.5	490-4499-1-ND	15.05	88.92	256.50	490-4499-2-ND	4,000	246.00/M	LLM315R71A474MA11L
	X7R	16	.1µF	±20%	3.2	1.6	0.5	490-4495-1-ND	12.34	72.93	210.38	490-4495-2-ND	4,000	202.00/M	LLM315R71C104MA11L
	X7R	16	.22µF	±20%	3.2	1.6	0.5	490-4497-1-ND	14.81	87.49	252.38	490-4497-2-ND	4,000	242.00/M	LLM315R71C224MA11L

† Tolerance ±0.1mm ‡ Tolerance +0 / -0.15mm

Monolithic Ceramic Chip Capacitors Safety Standard

General Features: • New monolithic structure for small, high capacitance capable of operating at high voltage levels • 125°C guaranteed • Only for reflow soldering

GB Series: Features: • Chip monolithic ceramic capacitor (certified as conforming to safety standards) for AC lines • Compared to lead type capacitors, this new capacitor is greatly downsized and low-profiled to 1/10 or less in volume, and 1/4 or less in height. **Applications:** • Ideal for use as X capacitor for various switching power supplies

GD Series: Features: • Available for equipment based on IEC/EN60950 and UL1950 • The low-profile type (thickness: 1.5mm maximum) is available for use on thinner type equipment. **Applications:** • For use on line filters and couplings for DAA modems without transformers • Line filters for information equipment

GF Series: Features: • Available for equipment based on IEC/EN60950 and UL1950. The GA352/355 types are available for equipment based on IEC/EN60065, UL1492 and UL6500 • The low-profile type (thickness: 1.5mm maximum) is available for use on thinner type equipment **Applications:** • For use on line filters and couplings for DAA modems without transformers • Use on line filters for information equipment • Use as Y capacitor or X capacitor for various switching power supplies (GA352/355 types only)

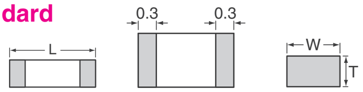

Standard Recognition

Series	Size Code	Safety Standard	Standard No.	Status of Recognition	Switching Power Supplies	Communication Network Devices such as a Modem
GB	2220	VDE, SEV, SEMKO	EN132400	◎	◎	◎
GD	1808/1812	SEMKO	EN132400	◎	—	◎
GF	1808	SEMKO	EN132400	◎	—	◎
	2211/2220	UL	UL1414	◎	◎	◎
	2211/2220	SEMKO	EN132400	◎	◎	◎

Size Code	Type	WV AC	Capacitance	Tolerance	Dimensions – mm L	Dimensions – mm W	Dimensions – mm T	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Part No.
GB Series — Class X2															
2220	X7R	250	10000pF	±10%	5.7	5.0	2.0	490-4235-1-ND	23.02	184.14	690.53	490-4235-2-ND	1,000	1105.00	GA355DR7GB103KY02L
	X7R	250	15000pF	±10%	5.7	5.0	2.0	490-4236-1-ND	25.73	205.83	771.86	490-4236-2-ND	1,000	1235.00	GA355DR7GB153KY02L
	X7R	250	22000pF	±10%	5.7	5.0	2.0	490-4237-1-ND	29.71	237.66	891.23	490-4237-2-ND	1,000	1426.00	GA355DR7GB223KY02L
	X7R	250	33000pF	±10%	5.7	5.0	2.7	490-4238-1-ND	35.73	285.84	—	490-4238-2-ND	500	857.50	GA355XR7GB333KY06L
GD Series — Class Y3															
1808	X7R	250	100pF	±10%	4.5	2.0	1.5	490-3483-1-ND	10.36	61.23	176.63	490-3483-2-ND	2,000	170.00/M	GA342QR7GD101KW01L
	X7R	250	150pF	±10%	4.5	2.0	1.5	490-3484-1-ND	10.67	63.05	181.88	490-3484-2-ND	2,000	175.00/M	GA342QR7GD151KW01L
	X7R	250	220pF	±10%	4.5	2.0	1.5	490-3485-1-ND	9.85	58.18	167.81	490-3485-2-ND	2,000	161.00/M	GA342QR7GD221KW01L
	X7R	250	330pF	±10%	4.5	2.0	1.5	490-3486-1-ND	9.85	58.18	167.81	490-3486-2-ND	2,000	161.00/M	GA342QR7GD331KW01L
	X7R	250	470pF	±10%	4.5	2.0	1.5	490-3487-1-ND	8.58	50.70	146.25	490-3487-2-ND	2,000	140.00/M	GA342QR7GD471KW01L
	X7R	250	680pF	±10%	4.5	2.0	1.5	490-3488-1-ND	8.58	50.70	146.25	490-3488-2-ND	2,000	140.00/M	GA342QR7GD681KW01L
	X7R	250	1000pF	±10%	4.5	2.0	1.5	490-3489-1-ND	9.44	55.77	160.88	490-3489-2-ND	2,000	154.00/M	GA342QR7GD102KW01L
	X7R	250	1500pF	±10%	4.5	2.0	1.5	490-3490-1-ND	9.85	58.18	167.81	490-3490-2-ND	2,000	161.00/M	GA342QR7GD152KW01L
1812	X7R	250	1800pF	±10%	4.5	3.2	1.5	490-3491-1-ND	13.40	79.17	228.38	490-3491-2-ND	1,000	219.00	GA343QR7GD182KW01L
	X7R	250	2200pF	±10%	4.5	3.2	1.5	490-3492-1-ND	13.40	79.17	228.38	490-3492-2-ND	1,000	219.00	GA343QR7GD222KW01L
	X7R	250	4700pF	±10%	4.5	3.2	2.0	490-3493-1-ND	13.40	79.17	228.38	490-3493-2-ND	1,000	219.00	GA343DR7GD472KW01L
GF Series — Class Y2															
1808	SL (JIS)	250	10pF	±5%	4.5	2.0	2.0	490-3459-1-ND	13.83	81.71	235.69	490-3459-2-ND	2,000	226.00/M	GA342D1XGF100JY02L
	SL (JIS)	250	12pF	±5%	4.5	2.0	2.0	490-3460-1-ND	17.44	103.03	297.19	490-3460-2-ND	2,000	285.00/M	GA342D1XGF120JY02L
	SL (JIS)	250	15pF	±5%	4.5	2.0	2.0	490-3461-1-ND	17.44	103.03	297.19	490-3461-2-ND	2,000	285.00/M	GA342D1XGF150JY02L
	SL (JIS)	250	18pF	±5%	4.5	2.0	2.0	490-3462-1-ND	17.44	103.03	297.19	490-3462-2-ND	2,000	285.00/M	GA342D1XGF180JY02L
	SL (JIS)	250	22pF	±5%	4.5	2.0	2.0	490-3463-1-ND	17.44	103.03	297.19	490-3463-2-ND	2,000	285.00/M	GA342D1XGF220JY02L
	SL (JIS)	250	27pF	±5%	4.5	2.0	2.0	490-3464-1-ND	15.64	92.43	266.63	490-3464-2-ND	2,000	256.00/M	GA342D1XGF270JY02L
	SL (JIS)	250	33pF	±5%	4.5	2.0	2.0	490-3465-1-ND	14.58	86.13	248.44	490-3465-2-ND	2,000	239.00/M	GA342D1XGF330JY02L
	SL (JIS)	250	39pF	±5%	4.5	2.0	2.0	490-3466-1-ND	15.64	92.43	266.63	490-3466-2-ND	2,000	256.00/M	GA342D1XGF390JY02L
	SL (JIS)	250	47pF	±5%	4.5	2.0	2.0	490-3467-1-ND	15.64	92.43	266.63	490-3467-2-ND	2,000	256.00/M	GA342D1XGF470JY02L
	SL (JIS)	250	56pF	±5%	4.5	2.0	2.0	490-3468-1-ND	15.92	94.06	271.31	490-3468-2-ND	2,000	260.00/M	GA342D1XGF560JY02L
	SL (JIS)	250	68pF	±5%	4.5	2.0	2.0	490-3469-1-ND	15.92	94.06	271.31	490-3469-2-ND	2,000	260.00/M	GA342D1XGF680JY02L
	SL (JIS)	250	82pF	±5%	4.5	2.0	2.0	490-3470-1-ND	15.92	94.06	271.31	490-3470-2-ND	2,000	260.00/M	GA342D1XGF820JY02L
	X7R	250	100pF	±10%	4.5	2.0	1.5	490-3471-1-ND	12.61	74.49	214.88	490-3471-2-ND	2,000	206.00/M	GA342QR7GF101KW01L
	X7R	250	150pF	±10%	4.5	2.0	1.5	490-3472-1-ND	12.61	74.49	214.88	490-3472-2-ND	2,000	206.00/M	GA342QR7GF151KW01L
	X7R	250	220pF	±10%	4.5	2.0	2.0	490-3473-1-ND	15.79	93.28	269.06	490-3473-2-ND	2,000	258.00/M	GA342DR7GF221KW02L
	X7R	250	330pF	±10%	4.5	2.0	2.0	490-3474-1-ND	15.79	93.28	269.06	490-3474-2-ND	2,000	258.00/M	GA342DR7GF331KW02L
2211	X7R	250	470pF	±10%	5.7	2.8	1.5	490-3475-1-ND	15.83	93.54	269.81	490-3475-2-ND	1,000	259.00	GA352QR7GF471KW01L
	X7R	250	680pF	±10%	5.7	2.8	1.5	490-3476-1-ND	15.83	93.54	269.81	490-3476-2-ND	1,000	259.00	GA352QR7GF681KW01L
	X7R	250	1000pF	±10%	5.7	2.8	1.5	490-3477-1-ND	17.03	100.62	290.25	490-3477-2-ND	1,000	279.00	GA352QR7GF102KW01L
	X7R	250	1500pF	±10%	5.7	2.8	1.5	490-3478-1-ND	17.03	100.62	290.25	490-3478-2-ND	1,000	279.00	GA352QR7GF152KW01L
2220	X7R	250	1800pF	±10%	5.7	5.0	1.5	490-3479-1-ND	21.78	128.70	371.25	490-3479-2-ND	1,000	356.00	GA355QR7GF182KW01L
	X7R	250	2200pF	±10%	5.7	5.0	1.5	490-3480-1-ND	21.78	128.70	371.25	490-3480-2-ND	1,000	356.00	GA355QR7GF222KW01L
	X7R	250	3300pF	±10%	5.7	5.0	1.5	490-3481-1-ND	21.78	128.70	371.25	490-3481-2-ND	1,000	356.00	GA355QR7GF332KW01L
	X7R	250	4700pF	±10%	5.7	5.0	2.0	490-3482-1-ND	29.33	173.29	499.88	490-3482-2-ND	1,000	480.00	GA355DR7GF472KW01L

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Capacitors for High Frequency — ERB Series

Features:
- Negligible inductance is achieved by its monolithic structure so the series can be used at frequencies above 2GHz.
- Nickel barriered termination of ERB series improve solderablitiy and decrease solder leaching
- 0603 and 0805 are designed for both flow and reflow soldering and 1210 are designed for reflow soldering

Applications: High frequency and high-power circuits

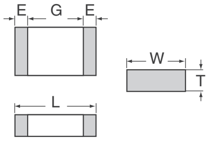

Size Code	Dimensions – mm L	W	E min.	G min.
0603	1.6±0.1	0.8±0.1	0.2	0.5
0805	2.0±0.3	1.25±0.3	0.25	0.7
1210	3.2±0.3	2.5±0.3	0.3	1.0

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm) max.	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
0603	C0G (NP0)	250	0.5pF	±0.25pF	0.9	490-4845-1-ND	3.36	19.83	57.19	490-4845-2-ND	4,000	55.00/M	ERB1885C2ER50CDX1D
	C0G (NP0)	250	1.0pF	±0.25pF	0.9	490-4846-1-ND	3.36	19.83	57.19	490-4846-2-ND	4,000	55.00/M	ERB1885C2E1R0CDX1D
	C0G (NP0)	250	1.2pF	±0.1pF	0.9	490-4847-1-ND	6.67	39.39	113.63	490-4847-2-ND	4,000	109.00/M	ERB1885C2E1R2BDX1D
	C0G (NP0)	250	1.5pF	±0.25pF	0.9	490-4848-1-ND	3.36	19.83	57.19	490-4848-2-ND	4,000	55.00/M	ERB1885C2E1R5CDX1D
	C0G (NP0)	250	1.8pF	±0.1pF	0.9	490-4849-1-ND	6.67	39.39	113.63	490-4849-2-ND	4,000	109.00/M	ERB1885C2E1R8BDX1D
	C0G (NP0)	250	2.2pF	±0.1pF	0.9	490-4850-1-ND	6.67	39.39	113.63	490-4850-2-ND	4,000	109.00/M	ERB1885C2E2R2BDX1D
	C0G (NP0)	250	2.7pF	±0.1pF	0.9	490-4851-1-ND	6.67	39.39	113.63	490-4851-2-ND	4,000	109.00/M	ERB1885C2E2R7BDX1D
	C0G (NP0)	250	3.3pF	±0.1pF	0.9	490-4852-1-ND	6.67	39.39	113.63	490-4852-2-ND	4,000	109.00/M	ERB1885C2E3R3BDX1D
	C0G (NP0)	250	3.9pF	±0.1pF	0.9	490-4853-1-ND	6.67	39.39	113.63	490-4853-2-ND	4,000	109.00/M	ERB1885C2E3R9BDX1D
	C0G (NP0)	250	4.7pF	±0.1pF	0.9	490-4854-1-ND	6.67	39.39	113.63	490-4854-2-ND	4,000	109.00/M	ERB1885C2E4R7BDX1D
	C0G (NP0)	250	5.6pF	±0.25pF	0.9	490-4855-1-ND	3.36	19.83	57.19	490-4855-2-ND	4,000	55.00/M	ERB1885C2E5R6CDX1D
	C0G (NP0)	250	6.8pF	±0.25pF	0.9	490-4856-1-ND	3.36	19.83	57.19	490-4856-2-ND	4,000	55.00/M	ERB1885C2E6R8CDX1D
	C0G (NP0)	250	8.2pF	±0.25pF	0.9	490-4857-1-ND	3.36	19.83	57.19	490-4857-2-ND	4,000	55.00/M	ERB1885C2E8R2CDX5D
	C0G (NP0)	250	10pF	±5%	0.9	490-4858-1-ND	3.36	19.83	57.19	490-4858-2-ND	4,000	55.00/M	ERB1885C2E100JDX5D
	C0G (NP0)	250	12pF	±5%	0.9	490-4859-1-ND	2.62	15.47	44.63	490-4859-2-ND	4,000	43.00/M	ERB1885C2E120JDX5D
	C0G (NP0)	250	15pF	±5%	0.9	490-4860-1-ND	4.02	23.73	68.44	490-4860-2-ND	4,000	66.00/M	ERB1885C2E150JDX5D
	C0G (NP0)	250	18pF	±5%	0.9	490-4861-1-ND	4.02	23.73	68.44	490-4861-2-ND	4,000	66.00/M	ERB1885C2E180JDX5D
	C0G (NP0)	250	22pF	±5%	0.9	490-4862-1-ND	4.02	23.73	68.44	490-4862-2-ND	4,000	66.00/M	ERB1885C2E220JDX5D
	C0G (NP0)	250	27pF	±5%	0.9	490-4863-1-ND	4.02	23.73	68.44	490-4863-2-ND	4,000	66.00/M	ERB1885C2E270JDX5D
	C0G (NP0)	250	33pF	±5%	0.9	490-4864-1-ND	4.02	23.73	68.44	490-4864-2-ND	4,000	66.00/M	ERB1885C2E330JDX5D
	C0G (NP0)	250	39pF	±5%	0.9	490-4865-1-ND	4.02	23.73	68.44	490-4865-2-ND	4,000	66.00/M	ERB1885C2E390JDX5D
	C0G (NP0)	250	47pF	±5%	0.9	490-4866-1-ND	4.02	23.73	68.44	490-4866-2-ND	4,000	66.00/M	ERB1885C2E470JDX5D
	C0G (NP0)	250	56pF	±5%	0.9	490-4867-1-ND	4.02	23.73	68.44	490-4867-2-ND	4,000	66.00/M	ERB1885C2E560JDX5D
	C0G (NP0)	250	68pF	±5%	0.9	490-4868-1-ND	4.02	23.73	68.44	490-4868-2-ND	4,000	66.00/M	ERB1885C2E680JDX5D
	C0G (NP0)	250	82pF	±5%	0.9	490-4869-1-ND	4.02	23.73	68.44	490-4869-2-ND	4,000	66.00/M	ERB1885C2E820JDX5D
	C0G (NP0)	250	100pF	±5%	0.9	490-4870-1-ND	4.02	23.73	68.44	490-4870-2-ND	4,000	66.00/M	ERB1885C2E101JDX5D
0805	C0G (NP0)	250	0.5pF	±0.25pF	1.35	490-4871-1-ND	7.40	43.75	126.19	490-4871-2-ND	3,000	121.00/M	ERB21B5C2ER50CDX1L
	C0G (NP0)	250	1.0pF	±0.25pF	1.35	490-4872-1-ND	7.40	43.75	126.19	490-4872-2-ND	3,000	121.00/M	ERB21B5C2E1R0CDX1L
	C0G (NP0)	250	1.2pF	±0.1pF	1.35	490-4873-1-ND	13.64	80.60	232.50	490-4873-2-ND	3,000	223.00/M	ERB21B5C2E1R2BDX1L
	C0G (NP0)	250	1.5pF	±0.25pF	1.35	490-4874-1-ND	7.40	43.75	126.19	490-4874-2-ND	3,000	121.00/M	ERB21B5C2E1R5CDX1L
	C0G (NP0)	250	1.8pF	±0.1pF	1.35	490-4875-1-ND	13.64	80.60	232.50	490-4875-2-ND	3,000	223.00/M	ERB21B5C2E1R8BDX1L
	C0G (NP0)	250	2.2pF	±0.1pF	1.35	490-4876-1-ND	13.64	80.60	232.50	490-4876-2-ND	3,000	223.00/M	ERB21B5C2E2R2BDX1L
	C0G (NP0)	250	2.7pF	±0.1pF	1.35	490-4877-1-ND	13.64	80.60	232.50	490-4877-2-ND	3,000	223.00/M	ERB21B5C2E2R7BDX1L
	C0G (NP0)	250	3.3pF	±0.1pF	1.35	490-4878-1-ND	13.64	80.60	232.50	490-4878-2-ND	3,000	223.00/M	ERB21B5C2E3R3BDX1L
	C0G (NP0)	250	3.9pF	±0.1pF	1.35	490-4879-1-ND	13.64	80.60	232.50	490-4879-2-ND	3,000	223.00/M	ERB21B5C2E3R9BDX1L
	C0G (NP0)	250	4.7pF	±0.1pF	1.35	490-4880-1-ND	13.64	80.60	232.50	490-4880-2-ND	3,000	223.00/M	ERB21B5C2E4R7BDX1L
	C0G (NP0)	250	5.6pF	±0.25pF	1.35	490-4881-1-ND	7.40	43.75	126.19	490-4881-2-ND	3,000	121.00/M	ERB21B5C2E5R6CDX1L
	C0G (NP0)	250	6.8pF	±0.25pF	1.35	490-4882-1-ND	7.40	43.75	126.19	490-4882-2-ND	3,000	121.00/M	ERB21B5C2E6R8CDX1L
	C0G (NP0)	250	8.2pF	±0.25pF	1.35	490-4883-1-ND	7.40	43.75	126.19	490-4883-2-ND	3,000	121.00/M	ERB21B5C2E8R2CDX1L
	C0G (NP0)	250	10pF	±5%	1.35	490-4884-1-ND	7.40	43.75	126.19	490-4884-2-ND	3,000	121.00/M	ERB21B5C2E100JDX1L
	C0G (NP0)	250	12pF	±5%	1.35	490-4885-1-ND	9.61	56.81	163.88	490-4885-2-ND	3,000	157.00/M	ERB21B5C2E120JDX1L
	C0G (NP0)	250	15pF	±5%	1.35	490-4886-1-ND	9.61	56.81	163.88	490-4886-2-ND	3,000	157.00/M	ERB21B5C2E150JDX1L
	C0G (NP0)	250	18pF	±5%	1.35	490-4887-1-ND	9.61	56.81	163.88	490-4887-2-ND	3,000	157.00/M	ERB21B5C2E180JDX1L
	C0G (NP0)	250	22pF	±5%	1.35	490-4888-1-ND	9.61	56.81	163.88	490-4888-2-ND	3,000	157.00/M	ERB21B5C2E220JDX1L
	C0G (NP0)	250	27pF	±5%	1.35	490-4889-1-ND	9.61	56.81	163.88	490-4889-2-ND	3,000	157.00/M	ERB21B5C2E270JDX1L
	C0G (NP0)	250	33pF	±5%	1.35	490-4890-1-ND	9.61	56.81	163.88	490-4890-2-ND	3,000	157.00/M	ERB21B5C2E330JDX1L
	C0G (NP0)	250	39pF	±5%	1.35	490-4891-1-ND	9.61	56.81	163.88	490-4891-2-ND	3,000	157.00/M	ERB21B5C2E390JDX1L
	C0G (NP0)	250	47pF	±5%	1.35	490-4892-1-ND	9.61	56.81	163.88	490-4892-2-ND	3,000	157.00/M	ERB21B5C2E470JDX1L
	C0G (NP0)	250	56pF	±5%	1.35	490-4893-1-ND	14.82	87.56	252.56	490-4893-2-ND	3,000	242.00/M	ERB21B5C2E560JDX1L
	C0G (NP0)	250	68pF	±5%	1.35	490-4894-1-ND	14.82	87.56	252.56	490-4894-2-ND	3,000	242.00/M	ERB21B5C2E680JDX1L
	C0G (NP0)	250	82pF	±5%	1.35	490-4895-1-ND	14.82	87.56	252.56	490-4895-2-ND	3,000	242.00/M	ERB21B5C2E820JDX1L
	C0G (NP0)	250	100pF	±5%	1.35	490-4896-1-ND	14.82	87.56	252.56	490-4896-2-ND	3,000	242.00/M	ERB21B5C2E101JDX1L
	C0G (NP0)	100	120pF	±5%	1.35	490-4897-1-ND	18.72	110.63	319.13	490-4897-2-ND	3,000	306.00/M	ERB21B5C2A121JDX1L
	C0G (NP0)	50	150pF	±5%	1.35	490-4898-1-ND	16.62	98.22	283.31	490-4898-2-ND	3,000	272.00/M	ERB21B5C1H151JDX1L
1210	C0G (NP0)	250	180pF	±5%	1.7	490-4899-1-ND	33.64	198.77	573.38	490-4899-2-ND	2,000	550.00/M	ERB32Q5C2E181JDX1L
	C0G (NP0)	250	220pF	±5%	1.7	490-4900-1-ND	33.64	198.77	573.38	490-4900-2-ND	2,000	550.00/M	ERB32Q5C2E221JDX1L
	C0G (NP0)	100	270pF	±5%	1.7	490-4901-1-ND	42.47	250.97	723.94	490-4901-2-ND	2,000	695.00/M	ERB32Q5C2A271JDX1L
	C0G (NP0)	100	330pF	±5%	1.7	490-4902-1-ND	42.47	250.97	723.94	490-4902-2-ND	2,000	695.00/M	ERB32Q5C2A331JDX1L
	C0G (NP0)	100	390pF	±5%	1.7	490-4903-1-ND	42.47	250.97	723.94	490-4903-2-ND	2,000	695.00/M	ERB32Q5C2A391JDX1L
	C0G (NP0)	100	470pF	±5%	1.7	490-4904-1-ND	42.47	250.97	723.94	490-4904-2-ND	2,000	695.00/M	ERB32Q5C2A471JDX1L
	C0G (NP0)	50	560pF	±5%	1.7	490-4905-1-ND	42.47	250.97	723.94	490-4905-2-ND	2,000	695.00/M	ERB32Q5C1H561JDX1L
	C0G (NP0)	50	680pF	±5%	1.7	490-4906-1-ND	42.47	250.97	723.94	490-4906-2-ND	2,000	695.00/M	ERB32Q5C1H681JDX1L
	C0G (NP0)	50	820pF	±5%	1.7	490-4907-1-ND	42.47	250.97	723.94	490-4907-2-ND	2,000	695.00/M	ERB32Q5C1H821JDX1L
	C0G (NP0)	50	1000pF	±5%	1.7	490-4908-1-ND	42.47	250.97	723.94	490-4908-2-ND	2,000	695.00/M	ERB32Q5C1H102JDX1L

Monolithic Ceramic Chip Capacitors

High Frequency GQM Series

Features: • HiQ and low ESR at VHF, UHF, Microwave • Feature improvement, low power consumption for mobile telecommunication (Base station, terminal, etc.)
Applications: • High Frequency circuit (Mobile telecommunication, etc.)

Size Code	Dimensions (mm) L	W	e
0603	1.6	0.8	0.2 ~ 0.5
0805	2.0	1.25	0.2 ~ 0.7
1111	2.8	2.8	0.3 min.

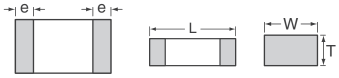

Size Code	Type	WV DC	Capacitance (pF)	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Murata Part No.
0603	C0G (NP0)	100	.1	±0.1pF	0.8	490-4835-1-ND	11.14	65.85	189.94	490-4835-2-ND	4,000	182.00/M	GQM1885C2AR10BB01D
	C0G (NP0)	100	.5	±25pF	0.8	490-3551-1-ND	8.59	50.77	146.44	490-3551-2-ND	4,000	141.00/M	GQM1885C2AR50CB01D
	C0G (NP0)	100	.75	±25pF	0.8	490-3552-1-ND	8.59	50.77	146.44	490-3552-2-ND	4,000	141.00/M	GQM1885C2AR75CB01D
	C0G (NP0)	100	1.0	±25pF	0.8	490-3553-1-ND	8.59	50.77	146.44	490-3553-2-ND	4,000	141.00/M	GQM1885C2A1R0CB01D
	C0G (NP0)	100	1.2	±0.1pF	0.8	490-4836-1-ND	11.14	65.85	189.94	490-4836-2-ND	4,000	182.00/M	GQM1885C2A1R2BB01D
	C0G (NP0)	100	1.5	±25pF	0.8	490-3554-1-ND	8.59	50.77	146.44	490-3554-2-ND	4,000	141.00/M	GQM1885C2A1R5CB01D
	C0G (NP0)	100	1.8	±0.1pF	0.8	490-4837-1-ND	11.14	65.85	189.94	490-4837-2-ND	4,000	182.00/M	GQM1885C2A1R8BB01D
	C0G (NP0)	100	2.0	±25pF	0.8	490-3555-1-ND	8.59	50.77	146.44	490-3555-2-ND	4,000	141.00/M	GQM1885C2A2R0CB01D
	C0G (NP0)	100	2.2	±0.1pF	0.8	490-4838-1-ND	11.14	65.85	189.94	490-4838-2-ND	4,000	182.00/M	GQM1885C2A2R2BB01D
	C0G (NP0)	100	2.7	±0.1pF	0.8	490-4839-1-ND	11.14	65.85	189.94	490-4839-2-ND	4,000	182.00/M	GQM1885C2A2R7BB01D
	C0G (NP0)	100	3.0	±25pF	0.8	490-3556-1-ND	8.59	50.77	146.44	490-3556-2-ND	4,000	141.00/M	GQM1885C2A3R0CB01D
	C0G (NP0)	100	3.3	±0.1pF	0.8	490-4840-1-ND	11.14	65.85	189.94	490-4840-2-ND	4,000	182.00/M	GQM1885C2A3R3BB01D
	C0G (NP0)	100	3.9	±0.1pF	0.8	490-4841-1-ND	11.14	65.85	189.94	490-4841-2-ND	4,000	182.00/M	GQM1885C2A3R9BB01D
	C0G (NP0)	100	4.0	±25pF	0.8	490-3557-1-ND	8.59	50.77	146.44	490-3557-2-ND	4,000	141.00/M	GQM1885C2A4R0CB01D
	C0G (NP0)	100	4.7	±0.1pF	0.8	490-4842-1-ND	11.14	65.85	189.94	490-4842-2-ND	4,000	182.00/M	GQM1885C2A4R7BB01D
	C0G (NP0)	100	5.0	±25pF	0.8	490-3558-1-ND	8.59	50.77	146.44	490-3558-2-ND	4,000	141.00/M	GQM1885C2A5R0CB01D
	C0G (NP0)	100	5.1	±25pF	0.8	490-3559-1-ND	8.59	50.77	146.44	490-3559-2-ND	4,000	141.00/M	GQM1885C2A5R1CB01D
	C0G (NP0)	100	5.6	±25pF	0.8	490-3560-1-ND	8.59	50.77	146.44	490-3560-2-ND	4,000	141.00/M	GQM1885C2A5R6CB01D

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Chip Capacitors

High Frequency GQM Series *(Cont.)*

Size Code	Type	WV DC	Capacitance (pF)	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	100	6.0	±25pF	0.8	490-3561-1-ND	8.59	50.77	146.44	490-3561-2-ND	4,000	141.00/M	GQM1885C2A6R0CB01D
	C0G (NP0)	100	6.2	±25pF	0.8	490-3562-1-ND	8.59	50.77	146.44	490-3562-2-ND	4,000	141.00/M	GQM1885C2A6R2CB01D
	C0G (NP0)	100	6.8	±25pF	0.8	490-3563-1-ND	8.59	50.77	146.44	490-3563-2-ND	4,000	141.00/M	GQM1885C2A6R8CB01D
	C0G (NP0)	50	7.0	±25pF	0.8	490-3564-1-ND	9.45	55.84	161.06	490-3564-2-ND	4,000	155.00/M	GQM1885C1H7R0CB01D
	C0G (NP0)	50	7.5	±25pF	0.8	490-3565-1-ND	9.45	55.84	161.06	490-3565-2-ND	4,000	155.00/M	GQM1885C1H7R5CB01D
	C0G (NP0)	50	8.0	±25pF	0.8	490-3566-1-ND	9.45	55.84	161.06	490-3566-2-ND	4,000	155.00/M	GQM1885C1H8R0CB01D
	C0G (NP0)	50	8.2	±25pF	0.8	490-3567-1-ND	9.45	55.84	161.06	490-3567-2-ND	4,000	155.00/M	GQM1885C1H8R2CB01D
	C0G (NP0)	50	9.0	±25pF	0.8	490-3568-1-ND	9.45	55.84	161.06	490-3568-2-ND	4,000	155.00/M	GQM1885C1H9R0CB01D
	C0G (NP0)	50	9.1	±25pF	0.8	490-3569-1-ND	9.45	55.84	161.06	490-3569-2-ND	4,000	155.00/M	GQM1885C1H9R1CB01D
	C0G (NP0)	50	10	±5%	0.8	490-3570-1-ND	9.45	55.84	161.06	490-3570-2-ND	4,000	155.00/M	GQM1885C1H100JB01D
	C0G (NP0)	50	12	±5%	0.8	490-3571-1-ND	12.32	72.80	210.00	490-3571-2-ND	4,000	202.00/M	GQM1885C1H120JB01D
	C0G (NP0)	50	15	±5%	0.8	490-3572-1-ND	12.32	72.80	210.00	490-3572-2-ND	4,000	202.00/M	GQM1885C1H150JB01D
	C0G (NP0)	50	18	±5%	0.8	490-3573-1-ND	12.32	72.80	210.00	490-3573-2-ND	4,000	202.00/M	GQM1885C1H180JB01D
	C0G (NP0)	50	20	±5%	0.8	490-3574-1-ND	12.32	72.80	210.00	490-3574-2-ND	4,000	202.00/M	GQM1885C1H200JB01D
	C0G (NP0)	50	22	±5%	0.8	490-3575-1-ND	12.32	72.80	210.00	490-3575-2-ND	4,000	202.00/M	GQM1885C1H220JB01D
	C0G (NP0)	50	27	±5%	0.8	490-3576-1-ND	12.32	72.80	210.00	490-3576-2-ND	4,000	202.00/M	GQM1885C1H270JB01D
	C0G (NP0)	50	33	±5%	0.8	490-3577-1-ND	12.32	72.80	210.00	490-3577-2-ND	4,000	202.00/M	GQM1885C1H330JB01D
	C0G (NP0)	50	39	±5%	0.8	490-3578-1-ND	12.32	72.80	210.00	490-3578-2-ND	4,000	202.00/M	GQM1885C1H390JB01D
	C0G (NP0)	50	47	±5%	0.8	490-3579-1-ND	12.32	72.80	210.00	490-3579-2-ND	4,000	202.00/M	GQM1885C1H470JB01D
	C0G (NP0)	50	56	±5%	0.8	490-3580-1-ND	12.32	72.80	210.00	490-3580-2-ND	4,000	202.00/M	GQM1885C1H560JB01D
	C0G (NP0)	50	68	±5%	0.8	490-3581-1-ND	12.32	72.80	210.00	490-3581-2-ND	4,000	202.00/M	GQM1885C1H680JB01D
	C0G (NP0)	50	82	±5%	0.8	490-3582-1-ND	12.32	72.80	210.00	490-3582-2-ND	4,000	202.00/M	GQM1885C1H820JB01D
	C0G (NP0)	50	100	±5%	0.8	490-3583-1-ND	12.32	72.80	210.00	490-3583-2-ND	4,000	202.00/M	GQM1885C1H101JB01D
0805	C0G (NP0)	250	1.0	±0.1pF	0.85	490-5280-1-ND	30.03	177.45	511.88	490-5280-2-ND	4,000	491.00/M	GQM2195C2E1R0BB12D
	C0G (NP0)	250	1.2	±0.1pF	0.85	490-5281-1-ND	30.03	177.45	511.88	490-5281-2-ND	4,000	491.00/M	GQM2195C2E1R2BB12D
	C0G (NP0)	250	1.5	±0.1pF	0.85	490-5282-1-ND	30.03	177.45	511.88	490-5282-2-ND	4,000	491.00/M	GQM2195C2E1R5BB12D
	C0G (NP0)	250	1.6	±0.1pF	0.85	490-5283-1-ND	30.03	177.45	511.88	490-5283-2-ND	4,000	491.00/M	GQM2195C2E1R6BB12D
	C0G (NP0)	250	1.8	±0.1pF	0.85	490-5284-1-ND	30.03	177.45	511.88	490-5284-2-ND	4,000	491.00/M	GQM2195C2E1R8BB12D
	C0G (NP0)	250	2.2	±0.1pF	0.85	490-5285-1-ND	30.03	177.45	511.88	490-5285-2-ND	4,000	491.00/M	GQM2195C2E2R2BB12D
	C0G (NP0)	250	2.7	±0.1pF	0.85	490-5286-1-ND	30.03	177.45	511.88	490-5286-2-ND	4,000	491.00/M	GQM2195C2E2R7BB12D
	C0G (NP0)	250	3.3	±0.1pF	0.85	490-5287-1-ND	30.03	177.45	511.88	490-5287-2-ND	4,000	491.00/M	GQM2195C2E3R3BB12D
	C0G (NP0)	250	3.6	±0.1pF	0.85	490-5288-1-ND	30.03	177.45	511.88	490-5288-2-ND	4,000	491.00/M	GQM2195C2E3R6BB12D
	C0G (NP0)	250	3.9	±0.1pF	0.85	490-5289-1-ND	30.03	177.45	511.88	490-5289-2-ND	4,000	491.00/M	GQM2195C2E3R9BB12D
	C0G (NP0)	250	4.7	±0.1pF	0.85	490-5290-1-ND	30.03	177.45	511.88	490-5290-2-ND	4,000	491.00/M	GQM2195C2E4R7BB12D
	C0G (NP0)	250	5.6	±0.25pF	0.85	490-5291-1-ND	16.15	95.42	275.25	490-5291-2-ND	4,000	264.00/M	GQM2195C2E5R6CB12D
	C0G (NP0)	250	6.8	±0.25pF	0.85	490-5292-1-ND	16.15	95.42	275.25	490-5292-2-ND	4,000	264.00/M	GQM2195C2E6R8CB12D
	C0G (NP0)	250	8.2	±0.25pF	0.85	490-5293-1-ND	17.75	104.91	302.63	490-5293-2-ND	4,000	291.00/M	GQM2195C2E8R2CB12D
	C0G (NP0)	250	10	±5%	0.85	490-5294-1-ND	17.75	104.91	302.63	490-5294-2-ND	4,000	291.00/M	GQM2195C2E100JB12D
	C0G (NP0)	250	12	±5%	0.85	490-5295-1-ND	23.36	138.06	398.25	490-5295-2-ND	4,000	382.00/M	GQM2195C2E120JB12D
	C0G (NP0)	250	15	±5%	0.85	490-5296-1-ND	23.36	138.06	398.25	490-5296-2-ND	4,000	382.00/M	GQM2195C2E150JB12D
	C0G (NP0)	250	18	±5%	0.85	490-5297-1-ND	23.36	138.06	398.25	490-5297-2-ND	4,000	382.00/M	GQM2195C2E180JB12D
	C0G (NP0)	250	22	±5%	0.85	490-5298-1-ND	23.36	138.06	398.25	490-5298-2-ND	4,000	382.00/M	GQM2195C2E220JB12D
	C0G (NP0)	250	27	±5%	0.85	490-5299-1-ND	23.36	138.06	398.25	490-5299-2-ND	4,000	382.00/M	GQM2195C2E270JB12D
	C0G (NP0)	250	33	±5%	0.85	490-5300-1-ND	23.36	138.06	398.25	490-5300-2-ND	4,000	382.00/M	GQM2195C2E330JB12D
	C0G (NP0)	250	39	±5%	0.85	490-5301-1-ND	23.36	138.06	398.25	490-5301-2-ND	4,000	382.00/M	GQM2195C2E390JB12D
	C0G (NP0)	250	47	±5%	0.85	490-5302-1-ND	23.36	138.06	398.25	490-5302-2-ND	4,000	382.00/M	GQM2195C2E470JB12D
	C0G (NP0)	250	56	±5%	0.85	490-5303-1-ND	23.36	138.06	398.25	490-5303-2-ND	4,000	382.00/M	GQM2195C2E560JB12D
	C0G (NP0)	250	68	±5%	0.85	490-5304-1-ND	23.36	138.06	398.25	490-5304-2-ND	4,000	382.00/M	GQM2195C2E680JB12D
	C0G (NP0)	250	82	±5%	0.85	490-5305-1-ND	23.36	138.06	398.25	490-5305-2-ND	4,000	382.00/M	GQM2195C2E820JB12D
	C0G (NP0)	250	100	±5%	0.85	490-5306-1-ND	23.36	138.06	398.25	490-5306-2-ND	4,000	382.00/M	GQM2195C2E101JB12D
	C0G (NP0)	100	.5	±25pF	0.85	490-3584-1-ND	11.14	65.85	189.94	490-3584-2-ND	4,000	182.00/M	GQM2195C2AR50CB01D
	C0G (NP0)	100	.75	±25pF	0.85	490-3585-1-ND	11.14	65.85	189.94	490-3585-2-ND	4,000	182.00/M	GQM2195C2AR75CB01D
	C0G (NP0)	100	1.0	±25pF	0.85	490-3586-1-ND	11.14	65.85	189.94	490-3586-2-ND	4,000	182.00/M	GQM2195C2A1R0CB01D
	C0G (NP0)	100	1.5	±25pF	0.85	490-3587-1-ND	11.14	65.85	189.94	490-3587-2-ND	4,000	182.00/M	GQM2195C2A1R5CB01D
	C0G (NP0)	100	2.0	±25pF	0.85	490-3588-1-ND	11.14	65.85	189.94	490-3588-2-ND	4,000	182.00/M	GQM2195C2A2R0CB01D
	C0G (NP0)	100	3.0	±25pF	0.85	490-3589-1-ND	11.14	65.85	189.94	490-3589-2-ND	4,000	182.00/M	GQM2195C2A3R0CB01D
	C0G (NP0)	100	4.0	±25pF	0.85	490-3590-1-ND	11.14	65.85	189.94	490-3590-2-ND	4,000	182.00/M	GQM2195C2A4R0CB01D
	C0G (NP0)	100	5.0	±25pF	0.85	490-3591-1-ND	11.14	65.85	189.94	490-3591-2-ND	4,000	182.00/M	GQM2195C2A5R0CB01D
	C0G (NP0)	100	5.1	±25pF	0.85	490-3592-1-ND	11.14	65.85	189.94	490-3592-2-ND	4,000	182.00/M	GQM2195C2A5R1CB01D
	C0G (NP0)	100	5.6	±25pF	0.85	490-3593-1-ND	11.14	65.85	189.94	490-3593-2-ND	4,000	182.00/M	GQM2195C2A5R6CB01D
	C0G (NP0)	100	6.0	±25pF	0.85	490-3594-1-ND	11.14	65.85	189.94	490-3594-2-ND	4,000	182.00/M	GQM2195C2A6R0CB01D
	C0G (NP0)	100	6.2	±25pF	0.85	490-3595-1-ND	11.14	65.85	189.94	490-3595-2-ND	4,000	182.00/M	GQM2195C2A6R2CB01D
	C0G (NP0)	100	6.8	±25pF	0.85	490-3596-1-ND	11.14	65.85	189.94	490-3596-2-ND	4,000	182.00/M	GQM2195C2A6R8CB01D
	C0G (NP0)	100	7.0	±25pF	0.85	490-3597-1-ND	12.32	72.80	210.00	490-3597-2-ND	4,000	202.00/M	GQM2195C2A7R0CB01D
	C0G (NP0)	100	7.5	±25pF	0.85	490-3598-1-ND	12.32	72.80	210.00	490-3598-2-ND	4,000	202.00/M	GQM2195C2A7R5CB01D
	C0G (NP0)	100	8.0	±25pF	0.85	490-3599-1-ND	12.32	72.80	210.00	490-3599-2-ND	4,000	202.00/M	GQM2195C2A8R0CB01D
	C0G (NP0)	100	8.2	±25pF	0.85	490-3600-1-ND	12.32	72.80	210.00	490-3600-2-ND	4,000	202.00/M	GQM2195C2A8R2CB01D
	C0G (NP0)	100	9.0	±25pF	0.85	490-3601-1-ND	12.32	72.80	210.00	490-3601-2-ND	4,000	202.00/M	GQM2195C2A9R0CB01D
	C0G (NP0)	100	9.1	±25pF	0.85	490-3602-1-ND	12.32	72.80	210.00	490-3602-2-ND	4,000	202.00/M	GQM2195C2A9R1CB01D
	C0G (NP0)	100	10	±5%	0.85	490-3603-1-ND	12.32	72.80	210.00	490-3603-2-ND	4,000	202.00/M	GQM2195C2A100JB01D
	C0G (NP0)	100	12	±5%	0.85	490-3604-1-ND	16.01	94.58	272.81	490-3604-2-ND	4,000	262.00/M	GQM2195C2A120JB01D
	C0G (NP0)	100	15	±5%	0.85	490-3605-1-ND	16.01	94.58	272.81	490-3605-2-ND	4,000	262.00/M	GQM2195C2A150JB01D
	C0G (NP0)	100	18	±5%	0.85	490-3606-1-ND	16.01	94.58	272.81	490-3606-2-ND	4,000	262.00/M	GQM2195C2A180JB01D
	C0G (NP0)	50	20	±5%	0.85	490-3607-1-ND	12.32	72.80	210.00	490-3607-2-ND	4,000	202.00/M	GQM2195C1H200JB01D
	C0G (NP0)	50	22	±5%	0.85	490-3608-1-ND	12.32	72.80	210.00	490-3608-2-ND	4,000	202.00/M	GQM2195C1H220JB01D
	C0G (NP0)	50	27	±5%	0.85	490-3609-1-ND	12.32	72.80	210.00	490-3609-2-ND	4,000	202.00/M	GQM2195C1H270JB01D
	C0G (NP0)	50	33	±5%	0.85	490-3610-1-ND	12.32	72.80	210.00	490-3610-2-ND	4,000	202.00/M	GQM2195C1H330JB01D
	C0G (NP0)	50	39	±5%	0.85	490-3611-1-ND	23.90	141.25	407.44	490-3611-2-ND	4,000	391.00/M	GQM2195C1H390JB01D
	C0G (NP0)	50	47	±5%	0.85	490-3612-1-ND	23.90	141.25	407.44	490-3612-2-ND	4,000	391.00/M	GQM2195C1H470JB01D
	C0G (NP0)	50	56	±5%	0.85	490-3613-1-ND	23.90	141.25	407.44	490-3613-2-ND	4,000	391.00/M	GQM2195C1H560JB01D
	C0G (NP0)	50	68	±5%	0.85	490-3614-1-ND	23.90	141.25	407.44	490-3614-2-ND	4,000	391.00/M	GQM2195C1H680JB01D
	C0G (NP0)	50	82	±5%	0.85	490-3615-1-ND	23.90	141.25	407.44	490-3615-2-ND	4,000	391.00/M	GQM2195C1H820JB01D
	C0G (NP0)	50	100	±5%	0.85	490-3616-1-ND	23.90	141.25	407.44	490-3616-2-ND	4,000	391.00/M	GQM2195C1H101JB01D
1111	C0G (NP0)	500	1.0	±0.25pF	1.15	490-5498-1-ND ***NEW!***	38.94	230.10	663.75	490-5498-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H1R0CB01L
	C0G (NP0)	500	1.5	±0.25pF	1.15	490-5499-1-ND ***NEW!***	38.94	230.10	663.75	490-5499-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H1R5CB01L
	C0G (NP0)	500	2.0	±0.25pF	1.15	490-5500-1-ND ***NEW!***	38.94	230.10	663.75	490-5500-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H2R0CB01L
	C0G (NP0)	500	3.0	±0.25pF	1.15	490-5501-1-ND ***NEW!***	38.94	230.10	663.75	490-5501-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H3R0CB01L
	C0G (NP0)	500	4.0	±0.25pF	1.15	490-5502-1-ND ***NEW!***	38.94	230.10	663.75	490-5502-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H4R0CB01L
	C0G (NP0)	500	5.0	±0.25pF	1.15	490-5503-1-ND ***NEW!***	38.94	230.10	663.75	490-5503-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H5R0CB01L
	C0G (NP0)	500	6.0	±0.25pF	1.15	490-5504-1-ND ***NEW!***	38.94	230.10	663.75	490-5504-2-ND ***NEW!***	1,000	637.00	GQM22M5C2H6R0CB01L
	C0G (NP0)	500	7.0	±0.25pF	1.15	490-5505-1-ND ***NEW!***	42.65	252.01	726.94	490-5505-2-ND ***NEW!***	1,000	698.00	GQM22M5C2H7R0CB01L
	C0G (NP0)	500	8.0	±0.25pF	1.15	490-5506-1-ND ***NEW!***	42.65	252.01	726.94	490-5506-2-ND ***NEW!***	1,000	698.00	GQM22M5C2H8R0CB01L
	C0G (NP0)	500	9.0	±0.25pF	1.15	490-5507-1-ND ***NEW!***	42.65	252.01	726.94	490-5507-2-ND ***NEW!***	1,000	698.00	GQM22M5C2H9R0CB01L
	C0G (NP0)	500	10	±5%	1.15	490-5508-1-ND ***NEW!***	42.65	252.01	726.94	490-5508-2-ND ***NEW!***	1,000	698.00	GQM22M5C2H100JB01L
	C0G (NP0)	500	12	±5%	1.15	490-5509-1-ND ***NEW!***	55.72	329.23	949.69	490-5509-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H120JB01L
	C0G (NP0)	500	15	±5%	1.15	490-5510-1-ND ***NEW!***	55.72	329.23	949.69	490-5510-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H150JB01L
	C0G (NP0)	500	18	±5%	1.15	490-5511-1-ND ***NEW!***	55.72	329.23	949.69	490-5511-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H180JB01L
	C0G (NP0)	500	20	±5%	1.15	490-5512-1-ND ***NEW!***	55.72	329.23	949.69	490-5512-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H200JB01L
	C0G (NP0)	500	22	±5%	1.15	490-5513-1-ND ***NEW!***	55.72	329.23	949.69	490-5513-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H220JB01L
	C0G (NP0)	500	27	±5%	1.15	490-5514-1-ND ***NEW!***	55.72	329.23	949.69	490-5514-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H270JB01L
	C0G (NP0)	500	33	±5%	1.15	490-5515-1-ND ***NEW!***	55.72	329.23	949.69	490-5515-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H330JB01L
	C0G (NP0)	500	39	±5%	1.15	490-5516-1-ND ***NEW!***	55.72	329.23	949.69	490-5516-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H390JB01L
	C0G (NP0)	500	47	±5%	1.15	490-5517-1-ND ***NEW!***	55.72	329.23	949.69	490-5517-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H470JB01L
	C0G (NP0)	500	56	±5%	1.15	490-5518-1-ND ***NEW!***	55.72	329.23	949.69	490-5518-2-ND ***NEW!***	1,000	912.00	GQM22M5C2H560JB01L

TAIYO YUDEN Multilayer Ceramic Chip Capacitors

Features: The use of Nickel (Ni) as material for both the internal and external electrodes improves the solderability and heat resistance characteristics. This almost completely eliminates migration and raises the level of reliability significantly. Low equivalent series resistance (ESR) provides excellent noise absorption characteristics.
Compared to tantalum or aluminum electrolytic capacitors, these ceramic capacitors offer a number of excellent features, including: • Higher permissible ripple current values • Smaller case sizes relative to rated voltage • Improved reliability due to higher insulation resistance and breakdown voltage

Operating Temperature Range: • C0G: -55° ~ 125°C • X7R: -55° ~ 125°C • X5R: -55° ~ 85°C • X5S: -55° ~ 85°C • X6S: -55° ~ 105°C • X7S: -55° ~ 125°C • Y5V: -30° ~ 85°C

Size	Dimensions (mm)		
Code	**L**	**W**	**e**
01005	0.40	0.20	0.10
0201	0.60	0.30	0.15
0204	0.52	1.00	—
0306	0.80	1.60	0.35
0402	1.00	0.50	0.25
0508	1.25	2.00	0.30

Size	Dimensions (mm)		
Code	**L**	**W**	**e**
0603	1.60	0.80	0.35
0612	1.60	3.20	0.30
0805	2.00	1.25	0.50
1206	3.20	1.60	0.50
1210	3.20	2.50	0.60
1812	4.50	3.20	0.90

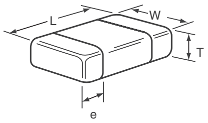

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
01005	C0G (NP0)	16	0.5pF	±0.25pF	0.2	587-2270-1-ND ***NEW!***	.42	3.15	14.70	587-2270-2-ND ***NEW!***	15,000	37.80/M	EMK042CG0R5CC-FW
	C0G (NP0)	16	1.0pF	±0.25pF	0.2	587-2261-1-ND ***NEW!***	.42	3.15	14.70	587-2261-2-ND ***NEW!***	15,000	37.80/M	EMK042CG010CC-FW
	C0G (NP0)	16	1.2pF	±0.25pF	0.2	587-2276-1-ND ***NEW!***	.42	3.15	14.70	587-2276-2-ND ***NEW!***	15,000	37.80/M	EMK042CG1R2CC-FW
	C0G (NP0)	16	1.5pF	±0.25pF	0.2	587-2277-1-ND ***NEW!***	.42	3.15	14.70	587-2277-2-ND ***NEW!***	15,000	37.80/M	EMK042CG1R5CC-FW
	C0G (NP0)	16	1.8pF	±0.25pF	0.2	587-2278-1-ND ***NEW!***	.42	3.15	14.70	587-2278-2-ND ***NEW!***	15,000	37.80/M	EMK042CG1R8CC-FW
	C0G (NP0)	16	2.0pF	±0.25pF	0.2	587-2262-1-ND ***NEW!***	.42	3.15	14.70	587-2262-2-ND ***NEW!***	15,000	37.80/M	EMK042CG020CC-FW
	C0G (NP0)	16	2.2pF	±0.25pF	0.2	587-2281-1-ND ***NEW!***	.42	3.15	14.70	587-2281-2-ND ***NEW!***	15,000	37.80/M	EMK042CG2R2CC-FW
	C0G (NP0)	16	2.7pF	±0.25pF	0.2	587-2282-1-ND ***NEW!***	.42	3.15	14.70	587-2282-2-ND ***NEW!***	20,000	37.80/M	EMK042CG2R7CC-FW
	C0G (NP0)	16	3.0pF	±0.25pF	0.2	587-2263-1-ND ***NEW!***	.42	3.15	14.70	587-2263-2-ND ***NEW!***	15,000	37.80/M	EMK042CG030CC-FW
	C0G (NP0)	16	3.3pF	±0.25pF	0.2	587-2285-1-ND ***NEW!***	.42	3.15	14.70	587-2285-2-ND ***NEW!***	15,000	37.80/M	EMK042CG3R3CC-FW
	C0G (NP0)	16	3.9pF	±0.25pF	0.2	587-2286-1-ND ***NEW!***	.42	3.15	14.70	587-2286-2-ND ***NEW!***	15,000	37.80/M	EMK042CG3R9CC-FW
	C0G (NP0)	16	4.0pF	±0.25pF	0.2	587-2264-1-ND ***NEW!***	.42	3.15	14.70	587-2264-2-ND ***NEW!***	15,000	37.80/M	EMK042CG040CC-FW
	C0G (NP0)	16	4.7pF	±0.25pF	0.2	587-2288-1-ND ***NEW!***	.42	3.15	14.70	587-2288-2-ND ***NEW!***	20,000	37.80/M	EMK042CG4R7CC-FW
	C0G (NP0)	16	5.6pF	±0.5pF	0.2	587-2290-1-ND ***NEW!***	.42	3.15	14.70	587-2290-2-ND ***NEW!***	15,000	37.80/M	EMK042CG5R6DC-FW
	C0G (NP0)	16	5.0pF	±0.25pF	0.2	587-2265-1-ND ***NEW!***	.42	3.15	14.70	587-2265-2-ND ***NEW!***	15,000	37.80/M	EMK042CG050CC-FW
	C0G (NP0)	16	6.0pF	±0.5pF	0.2	587-2266-1-ND ***NEW!***	.42	3.15	14.70	587-2266-2-ND ***NEW!***	20,000	37.80/M	EMK042CG060DC-FW
	C0G (NP0)	16	6.8pF	±0.5pF	0.2	587-2292-1-ND ***NEW!***	.42	3.15	14.70	587-2292-2-ND ***NEW!***	15,000	37.80/M	EMK042CG6R8DC-FW
	C0G (NP0)	16	7.0pF	±0.5pF	0.2	587-2267-1-ND ***NEW!***	.42	3.15	14.70	587-2267-2-ND ***NEW!***	15,000	37.80/M	EMK042CG070DC-FW
	C0G (NP0)	16	8.0pF	±0.5pF	0.2	587-2268-1-ND ***NEW!***	.42	3.15	14.70	587-2268-2-ND ***NEW!***	15,000	37.80/M	EMK042CG080DC-FW
	C0G (NP0)	16	8.2pF	±0.5pF	0.2	587-2294-1-ND ***NEW!***	.42	3.15	14.70	587-2294-2-ND ***NEW!***	15,000	37.80/M	EMK042CG8R2DC-FW
	C0G (NP0)	16	9.0pF	±0.5pF	0.2	587-2269-1-ND ***NEW!***	.42	3.15	14.70	587-2269-2-ND ***NEW!***	15,000	37.80/M	EMK042CG090DC-FW
	C0G (NP0)	16	10pF	±0.5pF	0.2	587-2271-1-ND ***NEW!***	.42	3.15	14.70	587-2271-2-ND ***NEW!***	20,000	37.80/M	EMK042CG100DC-FW
	C0G (NP0)	16	12pF	±5%	0.2	587-2273-1-ND ***NEW!***	.42	3.15	14.70	587-2273-2-ND ***NEW!***	20,000	37.80/M	EMK042CG120JC-FW
	C0G (NP0)	16	15pF	±5%	0.2	587-2274-1-ND ***NEW!***	.42	3.15	14.70	587-2274-2-ND ***NEW!***	15,000	37.80/M	EMK042CG150JC-FW
	C0G (NP0)	16	18pF	±5%	0.2	587-2275-1-ND ***NEW!***	.42	3.15	14.70	587-2275-2-ND ***NEW!***	15,000	37.80/M	EMK042CG180JC-FW
	C0G (NP0)	16	22pF	±5%	0.2	587-2279-1-ND ***NEW!***	.42	3.15	14.70	587-2279-2-ND ***NEW!***	15,000	37.80/M	EMK042CG220JC-FW
	C0G (NP0)	16	27pF	±5%	0.2	587-2280-1-ND ***NEW!***	.42	3.15	14.70	587-2280-2-ND ***NEW!***	15,000	37.80/M	EMK042CG270JC-FW
	C0G (NP0)	16	33pF	±5%	0.2	587-2283-1-ND ***NEW!***	.42	3.15	14.70	587-2283-2-ND ***NEW!***	20,000	37.80/M	EMK042CG330JC-FW
	C0G (NP0)	16	39pF	±5%	0.2	587-2284-1-ND ***NEW!***	.42	3.15	14.70	587-2284-2-ND ***NEW!***	15,000	37.80/M	EMK042CG390JC-FW
	C0G (NP0)	16	47pF	±5%	0.2	587-2287-1-ND ***NEW!***	.42	3.15	14.70	587-2287-2-ND ***NEW!***	15,000	37.80/M	EMK042CG470JC-FW
	C0G (NP0)	16	56pF	±5%	0.2	587-2289-1-ND ***NEW!***	.42	3.15	14.70	587-2289-2-ND ***NEW!***	20,000	37.80/M	EMK042CG560JC-FW
	C0G (NP0)	16	68pF	±5%	0.2	587-2291-1-ND ***NEW!***	.42	3.15	14.70	587-2291-2-ND ***NEW!***	20,000	37.80/M	EMK042CG680JC-FW
	C0G (NP0)	16	82pF	±5%	0.2	587-2293-1-ND ***NEW!***	.42	3.15	14.70	587-2293-2-ND ***NEW!***	15,000	37.80/M	EMK042CG820JC-FW
	C0G (NP0)	16	100pF	±5%	0.2	587-2272-1-ND ***NEW!***	.42	3.15	14.70	587-2272-2-ND ***NEW!***	20,000	37.80/M	EMK042CG101JC-FW
	X5R	10	100pF	±10%	0.2	587-2298-1-ND ***NEW!***	.44	3.30	15.40	587-2298-2-ND ***NEW!***	15,000	39.60/M	LMK042BJ101KC-FW
	X5R	10	220pF	±10%	0.2	587-2300-1-ND ***NEW!***	.44	3.30	15.40	587-2300-2-ND ***NEW!***	20,000	39.60/M	LMK042BJ221KC-FW
	X5R	10	470pF	±10%	0.2	587-2301-1-ND ***NEW!***	.44	3.30	15.40	587-2301-2-ND ***NEW!***	20,000	39.60/M	LMK042BJ471KC-FW
	X5R	10	1,000pF	±10%	0.2	587-2299-1-ND ***NEW!***	.44	3.30	15.40	587-2299-2-ND ***NEW!***	20,000	39.60/M	LMK042BJ102KC-FW
	X5R	6.3	2,200pF	±10%	0.2	587-2296-1-ND ***NEW!***	.44	3.30	15.40	587-2296-2-ND ***NEW!***	15,000	39.60/M	JMK042BJ222KC-FW
	X5R	6.3	4,700pF	±10%	0.2	587-2297-1-ND ***NEW!***	.44	3.30	15.40	587-2297-2-ND ***NEW!***	15,000	39.60/M	JMK042BJ472KC-FW
	X5R	6.3	10,000pF	±10%	0.2	587-2295-1-ND ***NEW!***	.44	3.30	15.40	587-2295-2-ND ***NEW!***	15,000	39.60/M	JMK042BJ103KC-FW
0201	C0G (NP0)	25	5.6pF	±0.5pF	0.3	587-2305-1-ND ***NEW!***	.20	1.25	4.50	587-2305-2-ND ***NEW!***	15,000	10.00/M	TMK063CG5R6DPGF
	C0G (NP0)	25	6.8pF	±0.5pF	0.3	587-2306-1-ND ***NEW!***	.20	1.25	4.50	587-2306-2-ND ***NEW!***	15,000	10.00/M	TMK063CG6R8DPGF
	C0G (NP0)	25	8.2pF	±0.5pF	0.3	587-2308-1-ND ***NEW!***	.20	1.25	4.50	587-2308-2-ND ***NEW!***	15,000	10.00/M	TMK063CG8R2DT-F
	C0G (NP0)	25	10pF	±0.5pF	0.3	587-2302-1-ND ***NEW!***	.20	1.25	4.50	587-2302-2-ND ***NEW!***	15,000	10.00/M	TMK063CG100DT-F
	C0G (NP0)	25	22pF	±5%	0.3	587-2304-1-ND ***NEW!***	.20	1.25	4.50	587-2304-2-ND ***NEW!***	15,000	10.00/M	TMK063CG220JT-F
	C0G (NP0)	25	82pF	±5%	0.3	587-2307-1-ND ***NEW!***	.20	1.25	4.50	587-2307-2-ND ***NEW!***	15,000	10.00/M	TMK063CG820JT-F
	C0G (NP0)	25	100pF	±5%	0.3	587-2303-1-ND ***NEW!***	.20	1.25	4.50	587-2303-2-ND ***NEW!***	15,000	10.00/M	TMK063CG101JT-F
	X5R	25	220pF	±10%	0.3	587-1175-1-ND	.16	1.00	3.60	587-1175-2-ND	15,000	8.00/M	TMK063BJ221KP-F
	X5R	25	1,000pF	±10%	0.3	587-1177-1-ND	.20	1.25	4.50	587-1177-2-ND	15,000	10.00/M	TMK063BJ102KP-F
	X5R	16	2,200pF	±10%	0.3	587-1178-1-ND	.20	1.25	4.50	587-1178-2-ND	15,000	10.00/M	EMK063BJ222KP-F
	X5R	16	10,000pF	±10%	0.3	587-1180-1-ND	.20	1.25	4.50	587-1180-2-ND	15,000	10.00/M	EMK063BJ103KP-F
	X5R	10	22,000pF	±10%	0.3	587-1181-1-ND	.27	1.80	7.20	587-1181-2-ND	15,000	17.00/M	LMK063BJ223KP-F
	X5R	10	47,000pF	±10%	0.3	587-2242-1-ND	.30	2.00	8.00	587-2242-2-ND	15,000	19.00/M	LMK063BJ473KP-T
	X5R	10	0.10µF	±10%	0.3	587-2241-1-ND	.33	2.20	8.80	587-2241-2-ND	15,000	21.00/M	LMK063BJ104KP-T
	X5R	10	0.22µF	±20%	0.3	587-2483-1-ND ***NEW!***	.34	2.55	11.90	587-2483-2-ND ***NEW!***	15,000	30.60/M	LMK063BJ224MP-F
	X5R	6.3	47,000pF	±10%	0.3	587-1182-1-ND	.27	1.80	7.20	587-1182-2-ND	15,000	17.00/M	JMK063BJ473KP-F
	X5R	6.3	0.10µF	±10%	0.3	587-1183-1-ND	.30	2.00	8.00	587-1183-2-ND	15,000	19.00/M	JMK063BJ104KP-F
	X5R	6.3	0.22µF	±20%	0.3	587-1819-1-ND	.44	3.30	15.40	587-1819-2-ND	15,000	40.00/M	JMK063BJ224MP-F
	X5R	4.0	0.47µF	±20%	0.3	587-2147-1-ND	.43	3.40	20.50	587-2147-2-ND	15,000	64.00/M	AMK063BJ474MP-F
	X7R	16	4,700pF	±10%	0.3	587-2478-1-ND ***NEW!***	.20	1.25	4.50	587-2478-2-ND ***NEW!***	15,000	10.00/M	EMK063B7472KP-F
	X7R	16	2,200pF	±10%	0.3	587-2479-1-ND ***NEW!***	.20	1.25	4.50	587-2479-2-ND ***NEW!***	15,000	10.00/M	EMK063B7222KP-F
	X7R	25	220pF	±10%	0.3	587-2482-1-ND ***NEW!***	.16	1.00	3.60	587-2482-2-ND ***NEW!***	15,000	8.00/M	TMK063B7221KP-F
	X7R	25	470pF	±10%	0.3	587-2481-1-ND ***NEW!***	.16	1.00	3.60	587-2481-2-ND ***NEW!***	15,000	8.00/M	TMK063B7471KP-F
	X7R	25	1,000pF	±10%	0.3	587-2480-1-ND ***NEW!***	.16	1.00	3.60	587-2480-2-ND ***NEW!***	15,000	8.00/M	TMK063B7102KP-F
0204	X7S	6.3	0.10µF	±20%	0.3	587-2152-1-ND	.42	2.80	11.20	587-2152-2-ND	10,000	28.00/M	JWK105C7104MP-F
	X6S	4.0	0.22µF	±20%	0.3	587-2153-1-ND	.48	3.60	16.80	587-2153-2-ND	10,000	46.00/M	AWK105C6224MP-F
0306	X7R	10	1.0µF	±10%	0.8	587-1783-1-ND	.40	3.00	14.00	587-1783-2-ND	4,000	40.00/M	LWK107B7105KA-T
	X7R	6.3	1.0µF	±10%	0.8	587-1186-1-ND	.49	3.85	20.13	587-1186-2-ND	4,000	65.00/M	JWK107B7105KA-T
	X7R	6.3	0.22µF	±20%	0.5	587-2150-1-ND	.36	2.70	12.60	587-2150-2-ND	4,000	36.00/M	JWK107B7224MV-T
	X7S	4.0	2.2µF	±20%	0.5	587-2151-1-ND	.43	3.41	17.83	587-2151-2-ND	4,000	57.00/M	AWK107C7225MV-T
0402	C0G (NP0)	50	1.0pF	±0.25pF	0.5	587-1187-1-ND▲	.12	.75	2.70	587-1187-2-ND	10,000	6.30/M	UMK105CG010CW-F
	C0G (NP0)	50	1.2pF	±0.25pF	0.5	587-1188-1-ND▲	.12	.75	2.70	587-1188-2-ND	10,000	6.30/M	UMK105CG1R2CW-F
	C0G (NP0)	50	1.5pF	±0.25pF	0.5	587-1189-1-ND▲	.12	.75	2.70	587-1189-2-ND	10,000	6.30/M	UMK105CG1R5CW-F
	C0G (NP0)	50	2.2pF	±0.25pF	0.5	587-1191-1-ND▲	.12	.75	2.70	587-1191-2-ND	10,000	6.30/M	UMK105CG2R2CW-F
	C0G (NP0)	50	2.7pF	±0.25pF	0.5	587-1192-1-ND▲	.12	.75	2.70	587-1192-2-ND	10,000	6.30/M	UMK105CG2R7CW-F
	C0G (NP0)	50	3.3pF	±0.25pF	0.5	587-1193-1-ND▲	.12	.75	2.70	587-1193-2-ND	10,000	6.30/M	UMK105CG3R3CW-F
	C0G (NP0)	50	3.9pF	±0.25pF	0.5	587-1194-1-ND▲	.12	.75	2.70	587-1194-2-ND	10,000	6.30/M	UMK105CG3R9CW-F
	C0G (NP0)	50	4.7pF	±0.25pF	0.5	587-1195-1-ND▲	.12	.75	2.70	587-1195-2-ND	10,000	6.30/M	UMK105CG4R7CW-F
	C0G (NP0)	50	5.6pF	±0.5pF	0.5	587-1196-1-ND▲	.12	.75	2.70	587-1196-2-ND	10,000	6.30/M	UMK105CG5R6DW-F
	C0G (NP0)	50	6.8pF	±0.5pF	0.5	587-1197-1-ND▲	.12	.75	2.70	587-1197-2-ND	10,000	6.30/M	UMK105CG6R8DW-F
	C0G (NP0)	50	8.2pF	±0.5pF	0.5	587-1946-1-ND▲	.10	.63	2.25	587-1946-2-ND	10,000	5.00/M	UMK105CG8R2DV-F
	C0G (NP0)	50	10pF	±0.5pF	0.5	587-1947-1-ND▲	.10	.63	2.25	587-1947-2-ND	10,000	5.00/M	UMK105CG100DV-F
	C0G (NP0)	50	12pF	±5%	0.5	587-1948-1-ND▲	.10	.63	2.25	587-1948-2-ND	10,000	5.00/M	UMK105CG120JV-F
	C0G (NP0)	50	15pF	±5%	0.5	587-1949-1-ND▲	.10	.63	2.25	587-1949-2-ND	10,000	5.00/M	UMK105CG150JV-F
	C0G (NP0)	50	18pF	±5%	0.5	587-1950-1-ND▲	.10	.63	2.25	587-1950-2-ND	10,000	5.00/M	UMK105CG180JV-F
	C0G (NP0)	50	22pF	±5%	0.5	587-1203-1-ND▲	.12	.75	2.70	587-1203-2-ND	10,000	6.30/M	UMK105CG220JV-F
	C0G (NP0)	50	27pF	±5%	0.5	587-1204-1-ND▲	.12	.75	2.70	587-1204-2-ND	10,000	6.30/M	UMK105CG270JV-F
	C0G (NP0)	50	33pF	±5%	0.5	587-1205-1-ND▲	.12	.75	2.70	587-1205-2-ND	10,000	6.30/M	UMK105CG330JV-F
	C0G (NP0)	50	39pF	±5%	0.5	587-1206-1-ND▲	.12	.75	2.70	587-1206-2-ND	10,000	6.30/M	UMK105CG390JV-F
	C0G (NP0)	50	47pF	±5%	0.5	587-1207-1-ND▲	.12	.75	2.70	587-1207-2-ND	10,000	6.30/M	UMK105CG470JV-F
	C0G (NP0)	50	56pF	±5%	0.5	587-1208-1-ND▲	.12	.75	2.70	587-1208-2-ND	10,000	6.30/M	UMK105CG560JV-F
	C0G (NP0)	50	68pF	±5%	0.5	587-1209-1-ND▲	.12	.75	2.70	587-1209-2-ND	10,000	6.30/M	UMK105CG680JV-F

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							1	10	100		Qty.	Pricing	
0402	C0G (NP0)	50	82pF	±5%	0.5	587-1210-1-ND▲	.12	.75	2.70	587-1210-2-ND	10,000	6.30/M	UMK105CG820JV-F
	C0G (NP0)	50	100pF	±5%	0.5	587-1211-1-ND▲	.14	.90	3.24	587-1211-2-ND	10,000	7.56/M	UMK105CG101JV-F
	C0G (NP0)	50	120pF	±5%	0.5	587-1212-1-ND▲	.14	.90	3.24	587-1212-2-ND	10,000	7.56/M	UMK105CG121JV-F
	C0G (NP0)	50	150pF	±5%	0.5	587-1213-1-ND▲	.14	.90	3.24	587-1213-2-ND	10,000	7.56/M	UMK105CG151JV-F
	C0G (NP0)	50	180pF	±5%	0.5	587-1214-1-ND▲	.14	.90	3.24	587-1214-2-ND	10,000	7.56/M	UMK105CG181JV-F
	C0G (NP0)	50	220pF	±5%	0.5	587-1215-1-ND▲	.14	.90	3.24	587-1215-2-ND	10,000	7.56/M	UMK105CG221JV-F
	C0G (NP0)	50	270pF	±5%	0.5	587-1216-1-ND▲	.14	.90	3.24	587-1216-2-ND	10,000	7.56/M	UMK105CG271JV-F
	C0G (NP0)	50	330pF	±5%	0.5	587-1217-1-ND	.14	.90	3.24	587-1217-2-ND	10,000	7.56/M	UMK105CG331JV-F
	X7R	50	220pF	±10%	0.5	587-1218-1-ND	.08	.50	1.80	587-1218-2-ND	10,000	4.20/M	UMK105B7221KV-F
	X7R	50	470pF	±10%	0.5	587-1219-1-ND	.10	.60	2.16	587-1219-2-ND	10,000	5.04/M	UMK105B7471KV-F
	X7R	50	1,000pF	±10%	0.5	587-1220-1-ND	.08	.50	1.80	587-1220-2-ND	10,000	4.20/M	UMK105B7102KV-F
	X7R	50	2,200pF	±10%	0.5	587-1221-1-ND	.08	.50	1.80	587-1221-2-ND	10,000	4.20/M	UMK105B7222KV-F
	X7R	50	4,700pF	±10%	0.5	587-2237-1-ND	.08	.50	1.80	587-2237-2-ND	10,000	4.00/M	UMK105B7472KV-F
	X7R	50	10,000pF	±10%	0.5	587-2238-1-ND	.09	.55	1.98	587-2238-2-ND	10,000	5.00/M	UMK105B7103KV-F
	X7R	25	4,700pF	±10%	0.5	587-1222-1-ND	.10	.63	2.25	587-1222-2-ND	10,000	5.25/M	TMK105B7472KV-F
	X7R	25	10,000pF	±10%	0.5	587-1223-1-ND	.08	.50	1.80	587-1223-2-ND	10,000	4.20/M	TMK105B7103KV-F
	X7R	25	22,000pF	±10%	0.5	587-2239-1-ND	.09	.58	2.07	587-2239-2-ND	10,000	5.00/M	TMK105B7223KV-F
	X7R	25	47,000pF	±10%	0.5	587-2240-1-ND	.10	.60	2.16	587-2240-2-ND	10,000	5.00/M	TMK105B7473KV-F
	X7R	16	22,000pF	±10%	0.5	587-1224-1-ND	.08	.50	1.80	587-1224-2-ND	10,000	4.20/M	EMK105B7223KV-F
	X7R	16	47,000pF	±10%	0.5	587-1225-1-ND	.08	.50	1.80	587-1225-2-ND	10,000	4.20/M	EMK105B7473KV-F
	X7R	16	0.10µF	±10%	0.5	587-1451-1-ND	.12	.75	2.70	587-1451-2-ND	10,000	6.00/M	EMK105B7104KV-F
	X7R	10	22,000pF	±10%	0.5	587-2476-1-ND ***NEW!***	.07	.45	1.62	587-2476-2-ND ***NEW!***	10,000	3.78/M	LMK105B7223KV-F
	X7R	10	47,000pF	±10%	0.5	587-2548-1-ND ***NEW!***	.08	.53	1.89	587-2548-2-ND ***NEW!***	10,000	4.41/M	LMK105B7473KV-F
	X7R	10	0.10µF	±10%	0.5	587-2474-1-ND ***NEW!***	.12	.75	2.70	587-2474-2-ND ***NEW!***	10,000	6.30/M	LMK105B7104KV-F
	X7R	6.3	0.22µF	±10%	0.5	587-2475-1-ND ***NEW!***	.19	1.18	4.23	587-2475-2-ND ***NEW!***	10,000	9.87/M	JMK105B7224KV-F
	X5R	35	0.10µF	±10%	0.5	587-1994-1-ND	.30	2.00	8.00	587-1994-2-ND	10,000	20.00/M	GMK105BJ104KV-F
	X5R	25	0.10µF	±10%	0.5	587-1456-1-ND	.16	.98	3.51	587-1456-2-ND	10,000	8.00/M	TMK105BJ104KV-F
	X5R	16	0.10µF	±10%	0.5	587-1226-1-ND	.11	.68	2.43	587-1226-2-ND	10,000	5.67/M	EMK105BJ104KV-F
	X5R	16	0.22µF	±10%	0.5	587-1452-1-ND	.27	1.80	7.20	587-1452-2-ND	10,000	18.00/M	EMK105BJ224KV-F
	X5R	16	1.0µF	±10%	0.5	587-2477-1-ND ***NEW!***	.36	2.40	9.60	587-2477-2-ND ***NEW!***	10,000	24.00/M	EMK105BJ105KV-F
	X5R	10	0.10µF	±10%	0.5	587-1227-1-ND	.11	.68	2.43	587-1227-2-ND	10,000	5.67/M	LMK105BJ104KV-F
	X5R	10	0.10µF	±10%	0.5	587-2595-1-ND ***NEW!***	.11	.68	2.43	587-2595-2-ND ***NEW!***	50,000	4.59/M	LMK105BJ104KV-M
	X5R	10	0.22µF	±10%	0.5	587-1228-1-ND	.27	1.70	6.12	587-1228-2-ND	10,000	14.28/M	LMK105BJ224KV-F
	X5R	10	0.47µF	±10%	0.5	587-1455-1-ND	.26	1.70	6.80	587-1455-2-ND	10,000	17.00/M	LMK105BJ474KV-F
	X5R	10	1.0µF	±10%	0.5	587-1454-1-ND	.26	1.63	5.85	587-1454-2-ND	10,000	14.00/M	LMK105BJ105KV-F
	X5R	6.3	0.22µF	±10%	0.5	587-1229-1-ND	.24	1.50	5.40	587-1229-2-ND	10,000	12.60/M	JMK105BJ224KV-F
	X5R	6.3	0.22µF	±10%	0.5	587-2593-1-ND ***NEW!***	.24	1.50	5.40	587-2593-2-ND ***NEW!***	50,000	10.20/M	JMK105BJ224KV-M
	X5R	6.3	0.47µF	±10%	0.5	587-1230-1-ND	.24	1.50	5.40	587-1230-2-ND	10,000	12.60/M	JMK105BJ474KV-F
	X5R	6.3	1.0µF	±10%	0.5	587-1231-1-ND	.16	1.00	3.60	587-1231-2-ND	10,000	8.40/M	JMK105BJ105KV-F
	X5R	6.3	1.0µF	±10%	0.5	587-2594-1-ND ***NEW!***	.16	1.00	3.60	587-2594-2-ND ***NEW!***	50,000	6.80/M	JMK105BJ105KV-M
	X5R	6.3	2.2µF	±20%	0.5	587-1453-1-ND	.48	3.60	16.80	587-1453-2-ND	10,000	46.00/M	JMK105BJ225MV-F
	X5R	4.0	2.2µF	±20%	0.5	587-1232-1-ND	.36	2.86	14.95	587-1232-2-ND	10,000	46.00/M	AMK105BJ225MV-F
	X5R	4.0	3.3µF	±20%	0.5	587-2236-1-ND	.46	3.63	18.98	587-2236-2-ND	10,000	58.00/M	AMK105BJ335MV-F
	X5R	4.0	4.7µF	±20%	0.5	587-1966-1-ND	.50	3.98	24.00	587-1966-2-ND	10,000	77.00/M	AMK105BJ475MV-F
	Y5V	50	10,000pF	±80% / -20%	0.5	587-1233-1-ND	.12	.75	2.70	587-1233-2-ND	10,000	6.30/M	UMK105F103ZV-F
	Y5V	16	0.10µF	±80% / -20%	0.5	587-1235-1-ND	.10	.60	2.16	587-1235-2-ND	10,000	5.04/M	EMK105F104ZV-F
	Y5V	6.3	1.0µF	±80% / -20%	0.5	587-1236-1-ND	.24	1.50	5.40	587-1236-2-ND	10,000	12.60/M	JMK105F105ZV-F
0508	X6S	6.3	4.7µF	±10%	0.85	587-1237-1-ND	.45	3.52	18.40	587-1237-2-ND	4,000	59.00/M	JWK2126475KD-T
0603	X7R	100	1,000pF	±10%	0.8	587-1445-1-ND‡	.29	1.92	7.68	587-1445-2-ND	4,000	21.00/M	HMK107B7102KA-T
	X7R	100	4,700pF	±10%	0.8	587-1449-1-ND‡	.25	1.64	6.54	—	—	—	HMK107B7472KA-T
	X7R	100	10,000pF	±10%	0.8	587-1446-1-ND‡	.31	2.04	8.16	587-1446-2-ND	4,000	22.00/M	HMK107B7103KA-T
	X7R	100	22,000pF	±10%	0.8	587-1448-1-ND‡	.25	1.64	6.54	—	—	—	HMK107B7223KA-T
	X7R	50	0.10µF	±10%	0.8	587-1243-1-ND	.24	1.50	5.40	587-1243-2-ND	4,000	13.80/M	UMK107B7104KA-T
	X7R	25	22,000pF	±10%	0.8	587-1238-1-ND	.18	1.10	3.96	587-1238-2-ND	4,000	10.12/M	TMK107B7223KA-T
	X7R	25	0.22µF	±10%	0.8	587-1246-1-ND	.23	1.50	6.00	587-1246-2-ND	4,000	16.13/M	TMK107B7224KA-T
	X7R	16	47,000pF	±10%	0.8	587-1239-1-ND	.20	1.25	4.50	587-1239-2-ND	4,000	11.50/M	EMK107B7473KA-T
	X7R	16	0.10µF	±10%	0.8	587-1240-1-ND	.10	.63	2.25	587-1240-2-ND	4,000	5.75/M	EMK107B7104KA-T
	X7R	16	0.22µF	±10%	0.8	587-1249-1-ND	.24	1.50	5.40	587-1249-2-ND	4,000	13.80/M	EMK107B7224KA-T
	X7R	16	0.47µF	±10%	0.8	587-1250-1-ND	.28	1.75	6.30	587-1250-2-ND	4,000	16.10/M	EMK107B7474KA-T
	X7R	16	1.0µF	±10%	0.8	587-1241-1-ND◊	.24	1.60	6.40	587-1241-2-ND	4,000	17.20/M	EMK107B7105KA-T
	X7R	10	1.0µF	±10%	0.8	587-1242-1-ND◊	.21	1.33	4.77	587-1242-2-ND	4,000	12.19/M	LMK107B7105KA-T
	X7R	10	0.47µF	±10%	0.8	587-1252-1-ND	.28	1.75	6.30	587-1252-2-ND	4,000	16.10/M	LMK107B7474KA-T
	X5R	50	1.0µF	±10%	0.8	587-2400-1-ND ***NEW!***	.30	2.25	10.50	587-2400-2-ND ***NEW!***	4,000	30.00/M	UMK107BJ105KA-T
	X5R	35	1.0µF	±10%	0.8	587-1437-1-ND◊	.30	2.25	10.50	587-1437-2-ND	4,000	30.00/M	GMK107BJ105KA-T
	X5R	25	0.10µF	±10%	0.8	587-1245-1-ND	.12	.75	2.70	587-1245-2-ND	4,000	6.90/M	TMK107BJ104KA-T
	X5R	25	0.47µF	±10%	0.8	587-1247-1-ND	.33	2.20	8.80	587-1247-2-ND	4,000	23.65/M	TMK107BJ474KA-T
	X5R	25	1.0µF	±10%	0.8	587-1248-1-ND◊	.27	1.80	7.20	587-1248-2-ND	4,000	19.35/M	TMK107BJ105KA-T
	X5R	16	1.0µF	±10%	0.8	587-1251-1-ND◊	.24	1.60	6.40	587-1251-2-ND	4,000	17.20/M	EMK107BJ105KA-T
	X5R	16	1.0µF	±10%	0.45	587-1959-1-ND	.36	2.40	9.60	587-1959-2-ND	4,000	26.00/M	EMK107BJ105KK-T
	X5R	16	2.2µF	±10%	0.8	587-1430-1-ND◊	.42	3.15	14.70	587-1430-2-ND	4,000	42.00/M	EMK107BJ225KA-T
	X5R	10	1.0µF	±10%	0.45	587-1992-1-ND	.30	2.25	10.50	587-1992-2-ND	4,000	30.00/M	LMK107BJ105KK-T
	X5R	10	2.2µF	±10%	0.8	587-1253-1-ND◊	.30	2.25	10.50	587-1253-2-ND	4,000	30.00/M	LMK107BJ225KA-T
	X5R	10	4.7µF	±10%	0.8	587-1441-1-ND◊	.42	3.30	17.25	587-1441-2-ND	4,000	56.00/M	LMK107BJ475KA-T
	X5R	10	10µF	±20%	0.8	587-2562-1-ND ***NEW!***	.64	5.36	33.60	587-2562-2-ND ***NEW!***	4,000	120.00/M	LMK107BJ106MALTD
	X5R	6.3	1.0µF	±10%	0.45	587-1993-1-ND	.32	2.40	11.20	587-1993-2-ND	4,000	32.00/M	JMK107BJ105KK-T
	X5R	6.3	2.2µF	±10%	0.8	587-1254-1-ND◊	.39	2.60	10.40	587-1254-2-ND	4,000	27.95/M	JMK107BJ225KA-T
	X5R	6.3	2.2µF	±10%	0.45	587-1960-1-ND	.42	2.80	11.20	587-1960-2-ND	4,000	30.00/M	JMK107BJ225KK-T
	X5R	6.3	4.7µF	±10%	0.8	587-1785-1-ND◊	.39	2.60	10.40	587-1785-2-ND	4,000	28.00/M	JMK107BJ475KA-T
	X5R	6.3	4.7µF	±20%	0.8	587-1255-1-ND	.30	2.25	10.50	587-1255-2-ND	4,000	30.00/M	JMK107BJ475MA-T
	X5R	6.3	4.7µF	±20%	0.45	587-1944-1-ND	.44	3.49	21.00	587-1944-2-ND	4,000	71.00/M	JMK107BJ475MK-T
	X5R	6.3	10µF	±20%	0.8	587-1256-1-ND◊	.58	4.57	27.50	587-1256-2-ND	4,000	94.00/M	JMK107BJ106MA-T
	X5R	4.0	4.7µF	±20%	0.45	587-2228-1-ND	.44	3.49	21.00	587-2228-2-ND	4,000	71.00/M	AMK107BJ475MK-T
	X5R	4.0	10µF	±20%	0.8	587-2248-1-ND	.63	4.98	30.00	587-2248-2-ND	4,000	102.00/M	AMK107BJ106MA-T
	X5R	4.0	22µF	±20%	0.8	587-2085-1-ND	1.25	10.25	82.50	587-2085-2-ND	4,000	338.00/M	AMK107BJ226MA-T
	Y5V	50	0.10µF	±80% / -20%	0.8	587-1258-1-ND	.18	1.13	4.05	587-1258-2-ND	4,000	10.35/M	UMK107F104ZA-T
	Y5V	25	0.47µF	±80% / -20%	0.8	587-1259-1-ND	.17	1.05	3.78	587-1259-2-ND	4,000	9.66/M	TMK107F474ZA-T
	Y5V	16	0.22µF	±80% / -20%	0.8	587-1260-1-ND	.16	1.00	3.60	587-1260-2-ND	4,000	9.20/M	EMK107F224ZA-T
	Y5V	16	0.47µF	±80% / -20%	0.8	587-1261-1-ND	.18	1.13	4.05	587-1261-2-ND	4,000	10.35/M	EMK107F474ZA-T
	Y5V	16	1.0µF	±80% / -20%	0.8	587-1262-1-ND	.16	1.00	3.60	587-1262-2-ND	4,000	9.20/M	EMK107F105ZA-T
	Y5V	16	2.2µF	±80% / -20%	0.8	587-1263-1-ND	.27	1.80	7.20	587-1263-2-ND	4,000	19.35/M	EMK107F225ZA-T
	Y5V	10	1.0µF	±80% / -20%	0.8	587-1264-1-ND	.24	1.50	5.40	587-1264-2-ND	4,000	13.80/M	LMK107F105ZA-T
	Y5V	10	2.2µF	±80% / -20%	0.8	587-1265-1-ND	.27	1.80	7.20	587-1265-2-ND	4,000	19.35/M	LMK107F225ZA-T
0612	X7R	16	2.2µF	±10%	0.85	587-1784-1-ND	.58	4.57	27.50	587-1784-2-ND	4,000	94.00/M	EWK316B7225KD-T
	X7R	10	2.2µF	±10%	0.85	587-1266-1-ND	.61	4.81	29.00	587-1266-2-ND	4,000	99.00/M	LWK316B7225KD-T
	X5R	6.3	10µF	±10%	0.85	587-1267-1-ND	.80	6.70	42.00	587-1267-2-ND	4,000	150.00/M	JWK316BJ106KD-T
0805	X7R	250	1,000pF	±10%	0.85	587-1268-1-ND§	.35	2.60	12.11	587-1268-2-ND	4,000	34.60/M	QMK212B7102KD-T
	X7R	250	10,000pF	±10%	1.25	587-1271-1-ND§	.34	2.55	11.90	587-1271-2-ND	3,000	37.40/M	QMK212B7103KG-T
	X7R	100	0.10µF	±10%	1.25	587-1276-1-ND‡	.35	2.64	12.32	587-1276-2-ND	3,000	38.72/M	HMK212B7104KG-T
	X7R	100	0.22µF	±10%	1.25	587-2087-1-ND	.42	3.30	17.25	587-2087-2-ND	3,000	60.00/M	HMK212B7224KG-T

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							1	10	100		Qty.	Pricing	
0805	X7R	50	22,000pF	±10%	0.85	587-1277-1-ND	.26	1.70	6.80	587-1277-2-ND	4,000	18.28/M	UMK212B7223KD-T
	X7R	50	47,000pF	±10%	1.25	587-1278-1-ND	.27	1.80	7.20	587-1278-2-ND	3,000	21.15/M	UMK212B7473KG-T
	X7R	50	0.10µF	±10%	1.25	587-1279-1-ND	.24	1.62	6.48	587-1279-2-ND	3,000	19.04/M	UMK212B7104KG-T
	X7R	50	0.22µF	±10%	1.25	587-1287-1-ND	.30	2.00	8.00	587-1287-2-ND	3,000	23.50/M	UMK212B7224KG-T
	X7R	50	0.47µF	±10%	1.25	587-1288-1-ND	.41	3.19	16.68	587-1288-2-ND	3,000	58.00/M	UMK212B7474KG-T
	X7R	35	1.0µF	±10%	1.25	587-1438-1-ND◊	.49	3.85	20.13	587-1438-2-ND	3,000	70.00/M	GMK212B7105KG-T
	X7R	25	47,000pF	±10%	0.85	587-1280-1-ND	.23	1.54	6.16	587-1280-2-ND	4,000	16.56/M	TMK212B7473KD-T
	X7R	25	1.0µF	±10%	1.25	587-1281-1-ND◊	.30	2.25	10.50	587-1281-2-ND	3,000	33.00/M	TMK212B7105KG-T
	X7R	16	0.47µF	±10%	0.85	587-1282-1-ND	.30	2.00	8.00	587-1282-2-ND	4,000	21.50/M	EMK212B7474KD-T
	X7R	16	1.0µF	±10%	1.25	587-1283-1-ND◊	.33	2.20	8.80	587-1283-2-ND	3,000	25.85/M	EMK212B7105KG-T
	X7R	16	2.2µF	±10%	0.85	587-2393-1-ND ***NEW!***	.38	2.97	15.53	587-2393-2-ND ***NEW!***	4,000	49.95/M	EMK212B7225KD-T
	X7R	16	2.2µF	±10%	1.25	587-1431-1-ND◊	.39	2.93	13.65	587-1431-2-ND	3,000	43.00/M	EMK212B7225KG-T
	X7R	16	4.7µF	±10%	1.25	587-2394-1-ND ***NEW!***	.38	2.97	15.53	587-2394-2-ND ***NEW!***	3,000	54.00/M	EMK212B7475KG-T
	X7R	10	1.0µF	±10%	0.85	587-1284-1-ND	.33	2.20	8.80	587-1284-2-ND	4,000	23.65/M	LMK212B7105KD-T
	X7R	10	1.0µF	±10%	1.25	587-1285-1-ND◊	.36	2.40	9.60	587-1285-2-ND	3,000	28.20/M	LMK212B7105KG-T
	X7R	10	2.2µF	±10%	0.85	587-2397-1-ND ***NEW!***	.37	2.97	15.53	587-2397-2-ND ***NEW!***	4,000	49.95/M	LMK212B7225KD-T
	X7R	10	2.2µF	±10%	1.25	587-1286-1-ND◊	.31	2.33	10.85	587-1286-2-ND	3,000	34.10/M	LMK212B7225KG-T
	X7R	10	2.2µF	±20%	1.25	587-2257-1-ND	.31	2.33	10.85	587-2257-2-ND	3,000	34.10/M	LMK212B7225MG-T
	X7R	10	4.7µF	±10%	1.25	587-1442-1-ND◊	.36	2.81	14.66	587-1442-2-ND	3,000	51.00/M	LMK212B7475KG-T
	X7R	6.3	10µF	±10%	1.25	587-2396-1-ND ***NEW!***	.42	3.30	17.25	587-2396-2-ND ***NEW!***	3,000	60.00/M	JMK212B7106KG-T
	X5R	250	22,000pF	±10%	1.25	587-1272-1-ND§	.40	2.97	13.86	587-1272-2-ND	3,000	43.56/M	QMK212B7223KG-T
	X5R	50	1.0µF	±10%	1.25	587-2229-1-ND	.39	2.60	10.40	587-2229-2-ND	3,000	31.00/M	UMK212BJ105KG-T
	X5R	35	0.47µF	±10%	1.25	587-1289-1-ND	.30	2.25	10.50	587-1289-2-ND	3,000	33.00/M	GMK212BJ474KG-T
	X5R	25	0.47µF	±10%	0.85	587-1290-1-ND	.30	2.00	8.00	587-1290-2-ND	4,000	21.50/M	TMK212BJ474KD-T
	X5R	25	1.0µF	±10%	1.25	587-1291-1-ND◊	.39	2.60	10.40	587-1291-2-ND	3,000	30.55/M	TMK212BJ105KG-T
	X5R	25	2.2µF	±10%	0.85	587-2398-1-ND ***NEW!***	.38	2.97	15.53	587-2398-2-ND ***NEW!***	4,000	49.95/M	TMK212BJ225KD-T
	X5R	25	2.2µF	±10%	1.25	587-1292-1-ND◊	.35	2.75	14.38	587-1292-2-ND	3,000	50.00/M	TMK212BJ225KG-T
	X5R	25	4.7µF	±10%	1.25	587-1782-1-ND	.42	3.30	17.25	587-1782-2-ND	3,000	60.00/M	TMK212BJ475KG-T
	X5R	16	2.2µF	±10%	1.25	587-1293-1-ND◊	.39	2.93	13.65	587-1293-2-ND	3,000	42.90/M	EMK212BJ225KG-T
	X5R	16	4.7µF	±10%	1.25	587-1294-1-ND◊	.39	3.08	16.10	587-1294-2-ND	3,000	56.00/M	EMK212BJ475KG-T
	X5R	16	10µF	±10%	1.25	587-1295-1-ND◊	.47	3.74	22.50	587-1295-2-ND	3,000	81.00/M	EMK212BJ106KG-T
	X5R	10	10µF	±10%	1.25	587-2642-1-ND ***NEW!***	.35	2.75	14.38	587-2642-2-ND ***NEW!***	10,000	43.75/M	LMK212BJ106KG-L
	X5R	10	2.2µF	±10%	0.85	587-1296-1-ND	.32	2.40	11.20	587-1296-2-ND	4,000	32.00/M	LMK212BJ225KD-T
	X5R	10	4.7µF	±10%	0.85	587-1297-1-ND	.46	3.45	16.10	587-1297-2-ND	4,000	46.00/M	LMK212BJ475KD-T
	X5R	10	4.7µF	±10%	1.25	587-1298-1-ND◊	.44	3.30	15.40	587-1298-2-ND	3,000	48.40/M	LMK212BJ475KG-T
	X5R	10	10µF	±10%	0.85	587-1299-1-ND	.41	3.19	16.68	587-1299-2-ND	4,000	54.00/M	LMK212BJ106KD-T
	X5R	10	10µF	±10%	1.25	587-1300-1-ND◊	.35	2.75	14.38	587-1300-2-ND	3,000	50.00/M	LMK212BJ106KG-T
	X5R	10	22µF	±20%	1.25	587-1958-1-ND	.96	8.04	50.40	587-1958-2-ND	3,000	192.00/M	LMK212BJ226MG-T
	X5R	6.3	4.7µF	±10%	0.85	587-1301-1-ND	.46	3.45	16.10	587-1301-2-ND	4,000	46.00/M	JMK212BJ475KD-T
	X5R	6.3	4.7µF	±10%	1.25	587-1302-1-ND◊	.30	2.25	10.50	587-1302-2-ND	3,000	33.00/M	JMK212BJ475KG-T
	X5R	6.3	10µF	±10%	1.25	587-1303-1-ND◊	.48	3.60	16.80	587-1303-2-ND	3,000	52.80/M	JMK212BJ106KG-T
	X5R	6.3	10µF	±10%	0.85	587-1304-1-ND	.39	3.08	16.10	587-1304-2-ND	4,000	52.00/M	JMK212BJ106KD-T
	X5R	6.3	22µF	±10%	1.25	587-1468-1-ND	.96	8.04	50.40	587-1468-2-ND	3,000	192.00/M	JMK212BJ226KG-T
	X5R	6.3	10µF	±20%	1.25	587-1943-1-ND	.48	3.60	16.80	587-1943-2-ND	3,000	52.80/M	JMK212BJ106MG-T
	X5R	6.3	22µF	±20%	1.25	587-1305-1-ND◊	.61	4.81	29.00	587-1305-2-ND	3,000	104.00/M	JMK212BJ226MG-T
	X5R	6.3	22µF	±20%	0.85	587-1961-1-ND	.96	8.04	50.40	587-1961-2-ND	4,000	180.00/M	JMK212BJ226MD-T
	X5R	6.3	47µF	±20%	1.25	587-1779-1-ND◊	1.07	8.93	65.55	587-1779-2-ND	3,000	276.00/M	JMK212BJ476MG-T
	Y5V	50	0.22µF	±80% / -20%	0.85	587-1306-1-ND	.24	1.60	6.40	587-1306-2-ND	4,000	17.20/M	UMK212F224ZD-T
	Y5V	50	0.47µF	±80% / -20%	1.25	587-1307-1-ND	.36	2.40	9.60	587-1307-2-ND	3,000	28.20/M	UMK212F474ZG-T
	Y5V	50	1.0µF	±80% / -20%	1.25	587-1308-1-ND	.24	1.60	6.40	587-1308-2-ND	3,000	18.80/M	UMK212F105ZG-T
	Y5V	16	2.2µF	±80% / -20%	1.25	587-1309-1-ND	.36	2.40	9.60	587-1309-2-ND	3,000	28.20/M	EMK212F225ZG-T
	Y5V	10	4.7µF	±80% / -20%	1.25	587-1311-1-ND	.39	2.60	10.40	587-1311-2-ND	3,000	30.55/M	LMK212F475ZG-T
	Y5V	10	10µF	±80% / -20%	1.25	587-1312-1-ND	.42	2.80	11.20	587-1312-2-ND	3,000	32.90/M	LMK212F106ZG-T
	Y5V	6.3	4.7µF	±80% / -20%	0.85	587-1313-1-ND	.30	2.25	10.50	587-1313-2-ND	4,000	30.00/M	JMK212F475ZD-T
	Y5V	6.3	10µF	±80% / -20%	1.25	587-1314-1-ND	.42	2.80	11.20	587-1314-2-ND	3,000	32.90/M	JMK212F106ZG-T
1206	X7R	630	22,000pF	±10%	1.6	587-1335-1-ND§	.47	3.74	22.50	587-1335-2-ND	2,000	81.00/M	SMK316B7223KL-T
	X7R	630	10,000pF	±10%	1.15	587-1318-1-ND§	.45	3.57	21.50	587-1318-2-ND	3,000	77.00/M	SMK316B7103KF-T
	X7R	630	2,200pF	±10%	1.15	587-1316-1-ND§	.45	3.57	21.50	587-1316-2-ND	3,000	77.00/M	SMK316B7222KF-T
	X7R	630	1,000pF	±10%	1.15	587-1315-1-ND§	.42	3.32	20.00	587-1315-2-ND	3,000	72.00/M	SMK316B7102KF-T
	X7R	100	0.10µF	±10%	1.6	587-1322-1-ND‡	.41	3.19	16.68	587-1322-2-ND	2,000	58.00/M	HMK316B7104KL-T
	X7R	100	0.22µF	±10%	1.6	587-1323-1-ND‡	.43	3.36	17.54	587-1323-2-ND	2,000	61.00/M	HMK316B7224KL-T
	X7R	100	0.47µF	±10%	1.6	587-1450-1-ND‡	.60	5.03	31.50	587-1450-2-ND	2,000	120.00/M	HMK316B7474KL-T
	X7R	100	1.0µF	±10%	1.6	587-1777-1-ND‡	.66	5.23	31.50	587-1777-2-ND	2,000	113.00/M	HMK316B7105KL-T
	X7R	50	0.22µF	±10%	1.6	587-1324-1-ND	.39	3.08	16.10	587-1324-2-ND	2,000	56.00/M	UMK316B7224KL-T
	X7R	50	0.22µF	±20%	1.6	587-2260-1-ND	.39	3.08	16.10	587-2260-2-ND	2,000	56.00/M	UMK316B7224ML-T
	X7R	50	0.47µF	±10%	1.6	587-1325-1-ND	.39	3.08	16.10	587-1325-2-ND	2,000	56.00/M	UMK316B7474KL-T
	X7R	50	1.0µF	±10%	1.6	587-2230-1-ND	.39	3.08	16.10	587-2230-2-ND	2,000	56.00/M	UMK316B7105KL-T
	X7R	35	1.0µF	±10%	1.6	587-1326-1-ND★	.41	3.19	16.68	587-1326-2-ND	2,000	58.00/M	GMK316B7105KL-T
	X7R	25	0.22µF	±10%	1.15	587-1327-1-ND	.40	3.00	14.00	587-1327-2-ND	3,000	44.00/M	TMK316B7224KF-T
	X7R	25	1.0µF	±10%	1.6	587-1328-1-ND	.39	3.08	16.10	587-1328-2-ND	2,000	56.00/M	TMK316B7105KL-T
	X7R	25	2.2µF	±10%	1.6	587-1329-1-ND★	.48	3.60	16.80	587-1329-2-ND	2,000	52.80/M	TMK316B7225KL-T
	X7R	25	10µF	±10%	1.6	587-2399-1-ND ***NEW!***	.58	4.57	27.50	587-2399-2-ND ***NEW!***	2,000	99.00/M	TMK316B7106KL-TD
	X7R	16	1.0µF	±10%	1.15	587-1945-1-ND	.36	2.70	12.60	587-1945-2-ND	3,000	39.60/M	EMK316B7105KF-T
	X7R	16	2.2µF	±10%	1.6	587-1330-1-ND	.41	3.19	16.68	587-1330-2-ND	2,000	58.00/M	EMK316B7225KL-T
	X7R	16	4.7µF	±10%	1.6	587-1331-1-ND	.42	3.30	17.25	587-1331-2-ND	2,000	60.00/M	EMK316B7475KL-T
	X7R	16	10µF	±10%	1.6	587-2395-1-ND ***NEW!***	.55	4.32	26.00	587-2395-2-ND ***NEW!***	2,000	93.60/M	EMK316B7106KL-TD
	X7R	10	4.7µF	±10%	1.6	587-1332-1-ND	.46	3.63	18.98	587-1332-2-ND	2,000	66.00/M	LMK316B7475KL-T
	X7R	10	4.7µF	±20%	1.6	587-2258-1-ND	.46	3.63	18.98	587-2258-2-ND	2,000	66.00/M	LMK316B7475ML-T
	X7R	10	2.2µF	±10%	1.6	587-2232-1-ND	.49	3.68	17.15	587-2232-2-ND	2,000	54.00/M	LMK316B7225KL-T
	X7R	10	10µF	±10%	1.6	587-1333-1-ND★	.41	3.25	17.01	587-1333-2-ND	2,000	59.16/M	LMK316B7106KL-T
	X7R	10	10µF	±10%	1.6	587-2596-1-ND ***NEW!***	.51	4.04	21.10	587-2596-2-ND ***NEW!***	2,000	73.40/M	LMK316B7106KL-TD
	X7R	10	10µF	±20%	1.6	587-2597-1-ND ***NEW!***	.51	4.04	21.10	587-2597-2-ND ***NEW!***	2,000	73.40/M	LMK316B7106ML-TD
	X7R	6.3	10µF	±10%	1.6	587-1346-1-ND	.48	3.74	19.55	587-1346-2-ND	2,000	68.00/M	JMK316B7106KL-T
	X7R	6.3	10µF	±20%	1.6	587-1942-1-ND	.48	3.74	19.55	587-1942-2-ND	2,000	68.00/M	JMK316B7106ML-T
	X7R	6.3	22µF	±20%	1.6	587-1334-1-ND	.58	4.82	30.24	587-1334-2-ND	2,000	115.00/M	JMK316B7226ML-T
	X5R	250	0.10µF	±10%	1.6	587-1320-1-ND§	.49	3.90	23.50	587-1320-2-ND	2,000	84.60/M	QMK316B7104KL-T
	X5R	50	1.0µF	±10%	0.85	587-2401-1-ND ***NEW!***	.48	3.60	16.80	587-2401-2-ND ***NEW!***	4,000	48.00/M	UMK316BJ105KD-T
	X5R	50	2.2µF	±10%	0.85	587-2402-1-ND ***NEW!***	.48	3.60	16.80	587-2402-2-ND ***NEW!***	4,000	48.00/M	UMK316BJ225KD-T
	X5R	50	4.7µF	±10%	1.6	587-1962-1-ND	.61	4.81	29.00	587-1962-2-ND	2,000	104.00/M	UMK316BJ475KL-T
	X5R	35	10µF	±10%	1.6	587-2484-1-ND ***NEW!***	.57	4.48	27.00	587-2484-2-ND ***NEW!***	2,000	97.20/M	GMK316BJ106KL-T
	X5R	25	1.0µF	±10%	0.85	587-1434-1-ND	.48	3.60	16.80	587-1434-2-ND	4,000	48.00/M	TMK316BJ105KD-T
	X5R	25	2.2µF	±10%	0.85	587-2231-1-ND	.48	3.60	16.80	587-2231-2-ND	4,000	48.00/M	TMK316BJ225KD-T
	X5R	25	4.7µF	±10%	1.6	587-1336-1-ND★	.54	4.23	25.50	587-1336-2-ND	2,000	92.00/M	TMK316BJ475KL-T
	X5R	25	10µF	±10%	1.6	587-1337-1-ND★	.56	4.40	26.50	587-1337-2-ND	2,000	95.00/M	TMK316BJ106KL-T
	X5R	25	10µF	±20%	1.6	587-2259-1-ND	.56	4.40	26.50	587-2259-2-ND	2,000	95.00/M	TMK316BJ106ML-T
	X5R	16	4.7µF	±10%	1.6	587-1338-1-ND★	.38	2.97	15.53	587-1338-2-ND	2,000	54.00/M	EMK316BJ475KL-T
	X5R	16	10µF	±10%	1.6	587-1339-1-ND★	.55	4.29	22.43	587-1339-2-ND	2,000	78.00/M	EMK316BJ106KL-T
	X5R	16	10µF	±20%	1.6	587-2253-1-ND	.55	4.29	22.43	587-2253-2-ND	2,000	78.00/M	EMK316BJ106ML-T
	X5R	16	22µF	±20%	1.6	587-1433-1-ND★	.81	6.89	46.80	587-1433-2-ND	2,000	195.00/M	EMK316BJ226ML-T
	X5R	10	4.7µF	±10%	0.85	587-1340-1-ND	.43	3.41	17.83	587-1340-2-ND	4,000	57.00/M	LMK316BJ475KD-T

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							1	10	100		Qty.	Pricing	
1206	X5R	10	10µF	±10%	0.85	587-1341-1-ND	.42	3.32	20.00	587-1341-2-ND	4,000	68.00/M	LMK316BJ106KD-T
	X5R	10	10µF	±10%	1.6	587-1342-1-ND	.49	3.85	20.13	587-1342-2-ND	2,000	70.00/M	LMK316BJ106KL-T
	X5R	10	22µF	±20%	1.6	587-1343-1-ND★	.72	6.03	37.80	587-1343-2-ND	2,000	144.00/M	LMK316BJ226ML-T
	X5R	10	22µF	±20%	0.85	587-2233-1-ND	.84	7.04	44.10	587-2233-2-ND	4,000	158.00/M	LMK316BJ226MD-T
	X5R	10	47µF	±20%	1.6	587-1780-1-ND	1.01	8.46	62.10	587-1780-2-ND	2,000	261.00/M	LMK316BJ476ML-T
	X5R	6.3	10µF	±10%	1.15	587-1344-1-ND	.43	3.41	17.83	587-1344-2-ND	3,000	62.00/M	JMK316BJ106KF-T
	X5R	6.3	10µF	±10%	0.85	587-1345-1-ND	.52	4.07	21.28	587-1345-2-ND	4,000	68.00/M	JMK316BJ106KD-T
	X5R	6.3	22µF	±10%	1.6	587-1467-1-ND	.56	4.69	29.40	587-1467-2-ND	2,000	112.00/M	JMK316BJ226KL-T
	X5R	6.3	22µF	±20%	0.85	587-2234-1-ND	.76	6.37	39.90	587-2234-2-ND	4,000	143.00/M	JMK316BJ226MD-T
	X5R	6.3	22µF	±20%	1.6	587-1347-1-ND★	.68	5.40	32.50	587-1347-2-ND	2,000	117.00/M	JMK316BJ226ML-T
	X5R	6.3	47µF	±20%	0.85	587-2235-1-ND	1.50	12.30	99.00	587-2235-2-ND	4,000	405.00/M	JMK316BJ476MD-T
	X5R	6.3	47µF	±20%	1.6	587-1348-1-ND★	1.03	8.75	59.40	587-1348-2-ND	2,000	248.00/M	JMK316BJ476ML-T
	X5R	6.3	100µF	±20%	1.6	587-1963-1-ND	1.75	14.35	115.50	587-1963-2-ND	2,000	490.00/M	JMK316BJ107ML-T
	X5R	4.0	100µF	±20%	1.6	587-1349-1-ND	1.75	14.35	115.50	587-1349-2-ND	2,000	490.00/M	AMK316BJ107ML-T
	Y5V	50	2.2µF	±80% / -20%	1.25	587-1351-1-ND	.42	3.30	17.25	587-1351-2-ND	3,000	60.00/M	UMK316F225ZG-T
	Y5V	35	4.7µF	±80% / -20%	1.25	587-2254-1-ND	.40	3.00	14.00	587-2254-2-ND	3,000	44.00/M	GMK316F475ZG-T
	Y5V	35	10µF	±80% / -20%	1.6	587-1352-1-ND	.45	3.52	18.40	587-1352-2-ND	2,000	64.00/M	GMK316F106ZL-T
	Y5V	25	10µF	±80% / -20%	1.6	587-1353-1-ND	.46	3.45	16.10	587-1353-2-ND	2,000	50.60/M	TMK316F106ZL-T
	Y5V	16	10µF	±80% / -20%	1.6	587-1354-1-ND	.42	3.15	14.70	587-1354-2-ND	2,000	46.20/M	EMK316F106ZL-T
	Y5V	10	4.7µF	±80% / -20%	0.85	587-2250-1-ND	.32	2.40	11.20	587-2250-2-ND	4,000	32.00/M	LMK316F475ZD-T
	Y5V	10	10µF	±80% / -20%	1.15	587-1355-1-ND	.44	3.30	15.40	587-1355-2-ND	3,000	48.40/M	LMK316F106ZF-T
	Y5V	10	22µF	±80% / -20%	1.6	587-1356-1-ND	.47	3.74	22.50	587-1356-2-ND	2,000	81.00/M	LMK316F226ZL-T
	Y5V	6.3	10µF	±80% / -20%	0.85	587-1357-1-ND	.46	3.45	16.10	587-1357-2-ND	4,000	46.00/M	JMK316F106ZD-T
	Y5V	6.3	22µF	±80% / -20%	1.6	587-2249-1-ND	.42	3.32	20.00	587-2249-2-ND	2,000	72.00/M	JMK316F226ZL-T
1210	X7R	630	47,000pF	±10%	1.9	587-1371-1-ND§	.74	6.16	38.64	587-1371-2-ND	2,000	147.00/M	SMK325B7473KN-T
	X7R	630	22,000pF	±10%	1.9	587-1358-1-ND§	.58	4.82	30.24	587-1358-2-ND	2,000	115.00/M	SMK325B7223KN-T
	X7R	250	0.10µF	±10%	1.9	587-1360-1-ND§	.63	4.98	30.00	587-1360-2-ND	2,000	108.00/M	QMK325B7104KN-T
	X7R	100	0.22µF	±10%	1.9	587-1363-1-ND‡	.63	4.98	30.00	587-1363-2-ND	2,000	108.00/M	HMK325B7224KN-T
	X7R	100	0.47µF	±10%	1.9	587-1364-1-ND‡	.73	6.08	38.14	587-1364-2-ND	2,000	145.00/M	HMK325B7474KN-T
	X7R	100	1.0µF	±10%	1.9	587-1365-1-ND‡	.80	6.70	42.00	587-1365-2-ND	2,000	160.00/M	HMK325B7105KN-T
	X7R	100	2.2µF	±10%	1.9	587-1778-1-ND‡	.88	7.37	46.20	587-1778-2-ND	2,000	176.00/M	HMK325B7225KN-T
	X7R	50	1.0µF	±10%	1.5	587-1366-1-ND★	.47	3.74	22.50	587-1366-2-ND	2,000	81.00/M	UMK325B7105KH-T
	X7R	25	1.0µF	±10%	0.85	587-1367-1-ND	.55	4.29	22.43	587-1367-2-ND	2,000	78.00/M	TMK325B7105KD-T
	X7R	25	2.2µF	±10%	1.5	587-1368-1-ND★	.50	3.98	24.00	587-1368-2-ND	2,000	86.40/M	TMK325B7225KH-T
	X7R	25	4.7µF	±10%	1.9	587-1373-1-ND★	.63	4.98	30.00	587-1373-2-ND	2,000	108.00/M	TMK325B7475KN-T
	X7R	25	10µF	±10%	2.5	587-2598-1-ND ***NEW!***	.94	7.95	54.00	587-2598-2-ND ***NEW!***	500	142.50	TMK325B7106KM-TD
	X7R	25	10µF	±10%	1.9	587-2599-1-ND ***NEW!***	.72	6.03	37.80	587-2599-2-ND ***NEW!***	2,000	144.00/M	TMK325B7106KN-TR
	X7R	25	10µF	±20%	2.5	587-2600-1-ND ***NEW!***	.94	7.95	54.00	587-2600-2-ND ***NEW!***	500	142.50	TMK325B7106MM-TD
	X7R	16	4.7µF	±10%	1.9	587-1392-1-ND	.59	4.65	28.00	587-1392-2-ND	2,000	101.00/M	EMK325B7475KN-T
	X7R	16	10µF	±10%	1.9	587-2226-1-ND	.65	5.43	34.02	587-2226-2-ND	2,000	130.00/M	EMK325B7106KN-T
	X7R	16	10µF	±20%	1.9	587-2227-1-ND	.65	5.43	34.02	587-2227-2-ND	2,000	130.00/M	EMK325B7106MN-T
	X7R	10	10µF	±10%	1.9	587-1370-1-ND	.72	6.03	37.80	587-1370-2-ND	2,000	144.00/M	LMK325B7106KN-T
	X7R	10	10µF	±20%	1.9	587-1469-1-ND	.72	6.03	37.80	587-1469-2-ND	2,000	144.00/M	LMK325B7106MN-T
	X7S	50	10µF	±20%	2.5	587-1818-1-ND	.96	8.04	50.40	587-1818-2-ND	500	120.00	UMK325B7106MM-T
	X5R	250	0.22µF	±10%	1.9	587-1361-1-ND§	.63	4.98	30.00	587-1361-2-ND	2,000	108.00/M	QMK325B7224KN-T
	X5R	50	4.7µF	±20%	2.5	587-1964-1-ND	.89	7.47	46.83	587-1964-2-ND	500	111.50	UMK325BJ475MM-T
	X5R	50	10µF	±10%	2.5	587-2247-1-ND	.81	6.89	46.80	587-2247-2-ND	500	123.50	UMK325BJ106KM-T
	X5R	50	10µF	±20%	2.5	587-2225-1-ND	.96	8.04	50.40	587-2225-2-ND	500	120.00	UMK325BJ106MM-T
	X5R	35	2.2µF	±10%	1.9	587-1372-1-ND★	.58	4.57	27.50	587-1372-2-ND	2,000	99.00/M	GMK325BJ225KN-T
	X5R	35	2.2µF	±20%	1.9	587-2255-1-ND	.58	4.57	27.50	587-2255-2-ND	2,000	99.00/M	GMK325BJ225MN-T
	X5R	35	4.7µF	±20%	1.9	587-1781-1-ND	.63	4.98	30.00	587-1781-2-ND	2,000	108.00/M	GMK325BJ475MN-T
	X5R	35	10µF	±10%	1.9	587-1439-1-ND★	.96	4.57	50.40	587-1439-2-ND	2,000	192.00/M	GMK325BJ106KN-T
	X5R	25	10µF	±10%	0.85	587-1444-1-ND	1.00	8.38	52.50	587-1444-2-ND	2,000	200.00/M	TMK325BJ106KD-T
	X5R	25	10µF	±20%	0.85	587-2251-1-ND	1.00	8.38	52.50	587-2251-2-ND	2,000	200.00/M	TMK325BJ106MD-T
	X5R	25	10µF	±20%	2.5	587-1374-1-ND★	.80	6.70	42.00	587-1374-2-ND	500	100.00	TMK325BJ106MM-T
	X5R	25	10µF	±20%	1.9	587-1375-1-ND	.72	6.03	37.80	587-1375-2-ND	2,000	144.00/M	TMK325BJ106MN-T
	X5R	25	22µF	±20%	2.5	587-2086-1-ND	1.01	8.59	58.32	587-2086-2-ND	500	154.00	TMK325BJ226MM-T
	X5R	16	10µF	±10%	1.9	587-1376-1-ND	.72	6.03	37.80	587-1376-2-ND	2,000	144.00/M	EMK325BJ106KN-T
	X5R	16	10µF	±10%	0.85	587-1377-1-ND	.64	5.36	33.60	587-1377-2-ND	2,000	128.00/M	EMK325BJ106KD-T
	X5R	16	10µF	±20%	0.85	587-2252-1-ND	.64	5.36	33.60	587-2252-2-ND	2,000	128.00/M	EMK325BJ106MD-T
	X5R	16	10µF	±20%	1.9	587-1470-1-ND	.72	6.03	37.80	587-1470-2-ND	2,000	144.00/M	EMK325BJ106MN-T
	X5R	16	22µF	±20%	0.85	587-2412-1-ND ***NEW!***	.89	7.58	51.48	587-2412-2-ND ***NEW!***	2,000	214.50/M	EMK325BJ226MD-T
	X5R	16	22µF	±20%	2.5	587-1378-1-ND★	.81	6.89	46.80	587-1378-2-ND	500	123.50	EMK325BJ226MM-T
	X5R	16	47µF	±20%	2.5	587-1436-1-ND★	1.38	11.52	84.53	587-1436-2-ND	500	220.50	EMK325BJ476MM-T
	X5R	10	4.7µF	±10%	0.85	587-1379-1-ND	.53	4.15	25.00	587-1379-2-ND	2,000	90.00/M	LMK325BJ475KD-T
	X5R	10	10µF	±20%	0.85	587-1380-1-ND	.56	4.69	29.40	587-1380-2-ND	2,000	112.00/M	LMK325BJ106MD-T
	X5R	10	22µF	±20%	2.5	587-1381-1-ND★	1.00	8.48	57.60	587-1381-2-ND	500	152.00	LMK325BJ226MM-T
	X5R	10	22µF	±20%	2.0 Max.	587-1382-1-ND	.94	7.95	54.00	587-1382-2-ND	2,000	225.00/M	LMK325BJ226MY-T
	X5R	10	47µF	±20%	2.5	587-1383-1-ND★	1.32	11.05	81.08	587-1383-2-ND	500	211.50	LMK325BJ476MM-T
	X5R	10	100µF	±20%	2.5	587-1965-1-ND	2.67	22.10	195.00	587-1965-2-ND	500	520.00	LMK325BJ107MM-T
	X5R	6.3	22µF	±10%	2.5	587-1471-1-ND	.89	7.58	51.48	587-1471-2-ND	500	136.00	JMK325BJ226KM-T
	X5R	6.3	22µF	±20%	2.5	587-1384-1-ND	.81	6.89	46.80	587-1384-2-ND	500	123.50	JMK325BJ226MM-T
	X5R	6.3	22µF	±20%	2.0 Max.	587-1385-1-ND	.96	8.04	50.40	587-1385-2-ND	2,000	192.00/M	JMK325BJ226MY-T
	X5R	6.3	47µF	±20%	1.9	587-1440-1-ND	1.75	14.35	115.50	587-1440-2-ND	2,000	490.00/M	JMK325BJ476MN-T
	X5R	6.3	47µF	±20%	2.5	587-1386-1-ND★	1.29	10.81	79.35	587-1386-2-ND	500	207.00	JMK325BJ476MM-T
	X5R	6.3	100µF	±20%	2.5	587-1387-1-ND	2.20	18.04	145.20	587-1387-2-ND	500	374.00	JMK325BJ107MM-T
	X5R	6.3	100µF	±20%	2.0 Max.	587-1388-1-ND★	2.10	17.22	138.60	587-1388-2-ND	2,000	588.00/M	JMK325BJ107MY-T
	Y5V	50	4.7µF	±80% / -20%	1.5	587-1389-1-ND	.50	3.98	24.00	587-1389-2-ND	2,000	86.40/M	UMK325F475ZH-T
	Y5V	35	10µF	±80% / -20%	1.5	587-1391-1-ND	.68	5.40	32.50	587-1391-2-ND	2,000	117.00/M	GMK325F106ZH-T
	Y5V	25	10µF	±80% / -20%	1.5	587-1393-1-ND	.55	4.29	22.43	587-1393-2-ND	2,000	78.00/M	TMK325F106ZH-T
	Y5V	16	22µF	±80% / -20%	1.9	587-1390-1-ND	.63	4.98	30.00	587-1390-2-ND	2,000	108.00/M	EMK325F226ZN-T
	Y5V	10	22µF	±80% / -20%	1.9	587-1395-1-ND	.47	3.74	22.50	587-1395-2-ND	2,000	81.00/M	LMK325F226ZN-T
	Y5V	6.3	47µF	±80% / -20%	1.9	587-1396-1-ND	.94	7.95	54.00	587-1396-2-ND	2,000	225.00/M	JMK325F476ZN-T
	Y5V	6.3	100µF	±80% / -20%	2.5	587-1397-1-ND	1.35	11.28	82.80	587-1397-2-ND	500	216.00	JMK325F107ZM-T
1812	X7R	630	47,000pF	±10%	2.5	587-1398-1-ND§	.91	7.74	52.56	587-1398-2-ND	500	138.70	SMK432B7473KM-T
	X7R	250	0.10µF	±10%	2.5	587-1399-1-ND§	.96	8.04	50.40	587-1399-2-ND	500	120.00	QMK432B7104KM-T
	X7R	250	0.22µF	±10%	2.5	587-1400-1-ND§	.96	8.04	50.40	587-1400-2-ND	500	120.00	QMK432B7224KM-T
	X7R	100	0.47µF	±10%	2.5	587-1402-1-ND‡	1.00	8.48	57.60	587-1402-2-ND	500	152.00	HMK432B7474KM-T
	X7R	100	1.0µF	±10%	2.5	587-1403-1-ND‡	1.06	9.01	61.20	587-1403-2-ND	500	138.70	HMK432B7105KM-T
	X5R	630	0.10µF	±10%	2.5	587-1405-1-ND§	.91	7.74	52.56	587-1405-2-ND	500	138.70	SMK432B7104KM-T
	X5R	250	0.47µF	±10%	2.5	587-1401-1-ND§	1.00	8.48	57.60	587-1401-2-ND	500	152.00	QMK432B7474KM-T
	X5R	100	2.2µF	±10%	2.5	587-1404-1-ND‡	1.04	8.70	63.83	587-1404-2-ND	500	166.50	HMK432B7225KM-T

Kits

‡ **587-1794-ND** (TAIYO-CAP100V-V1)	10 each of values denoted – 0603, 0805, and 1206 case sizes, 5 each of values denoted – 1210 and 1812 case sizes (180 total pieces)	**$60.00**
§ **587-1795-ND** (TAIYO-HIVOLTCAP-V1)	5 each of values denoted (110 total pieces)	**$60.00**
◊ **587-1797-ND** (TAIYO-HICVCAP-V2)	10 each of values denoted (290 total pieces)	**$60.00**
★ **587-1798-ND** (TAIYO-HICVCAP-V3)	10 each of values denoted (230 total pieces)	**$60.00**
▲ **587-1951-ND** (TAIYO-0402NPO-V2)	50 each of values denoted (1,500 total pieces)	**$60.00**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TAIYO YUDEN Multilayer Ceramic Chip Capacitor Arrays

Features:
Internal electrode is nickel for increased cost performance and reliability

Applications:
Communication Equipment: Mobile Phones, PHS, Cordless Phones, etc.

Operating Temperature Range:
- X7R: -55°C ~ 125°C
- X5R: -55°C ~ 85°C

Type (Size Code)	Dimensions (mm) L	W	E1	E2	P
☐2K110 (0504)	1.37	1.00 ±0.08	0.36	0.20	0.64
☐4K212 (0805)	2.00	1.25 ±0.10	0.25	0.25	0.50

2 Elements

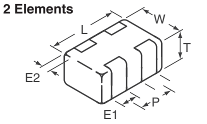

4 Elements

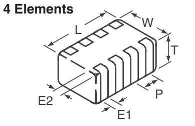

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 4,000	Taiyo Yuden Part No.
2 Elements												
0504	X7R	25	0.10µF	±10%	0.6	587-1034-1-ND	.32	2.40	11.20	587-1034-2-ND	32.00/M	T2K110BJ104KB-T
	X7R	16	0.10µF	±10%	0.6	587-1036-1-ND	.32	2.40	11.20	587-1036-2-ND	32.00/M	E2K110B7104KB-T
4 Elements												
0805	X5R	25	0.10µF	±10%	0.85	587-1045-1-ND	.43	3.40	20.50	587-1045-2-ND	70.00/M	T4K212BJ104KD-T
	X5R	16	0.10µF	±10%	0.85	587-1046-1-ND	.36	2.86	14.95	587-1046-2-ND	48.00/M	E4K212B7104KD-T
	X5R	10	0.22µF	±10%	0.85	587-1047-1-ND	.49	3.90	23.50	587-1047-2-ND	80.00/M	L4K212BJ224KD-T

High Frequency Multilayer Ceramic Chip Capacitors

Features:
Q-values in the high-frequency range (1 GHz+) are excellent compared to other types of multilayer capacitors. The 1005 (0402) case size is designed for high density mounting and weight reduction in various applications.

Operating Temperature Range: -55°C ~ 125°C

Applications:
Suitable for those high-frequency applications in which a capacitor with both a high Q-value and small size is required, such as portable communications and other wireless applications: VCO, TCXO, etc. Adjustment of characteristics in high-frequency circuits.

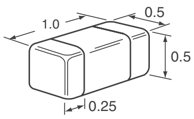

Size Code	Type	WV DC	Capacitance (pF)	Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 10,000	Taiyo Yuden Part No.
0402	C0G (NP0)	50	0.3	±0.1pF	587-1000-1-ND	.30	2.25	10.50	587-1000-2-ND	29.00/M	UVK105CH0R3BW-F
		50	0.4	±0.1pF	587-1001-1-ND	.30	2.25	10.50	587-1001-2-ND	29.00/M	UVK105CH0R4BW-F
		50	0.5	±0.1pF	587-1002-1-ND	.30	2.25	10.50	587-1002-2-ND	29.00/M	UVK105CH0R5BW-F
		50	0.6	±0.1pF	587-1003-1-ND	.30	2.25	10.50	587-1003-2-ND	29.00/M	UVK105CH0R6BW-F
		50	0.7	±0.1pF	587-1004-1-ND	.30	2.25	10.50	587-1004-2-ND	29.00/M	UVK105CH0R7BW-F
		50	0.8	±0.1pF	587-1005-1-ND	.30	2.25	10.50	587-1005-2-ND	29.00/M	UVK105CH0R8BW-F
		50	0.9	±0.1pF	587-1006-1-ND	.30	2.25	10.50	587-1006-2-ND	29.00/M	UVK105CH0R9BW-F
		50	1.0	±0.1pF	587-1007-1-ND	.30	2.25	10.50	587-1007-2-ND	29.00/M	UVK105CH010BW-F
		50	1.1	±0.1pF	587-1008-1-ND	.30	2.25	10.50	587-1008-2-ND	29.00/M	UVK105CH1R1BW-F
		50	1.2	±0.1pF	587-1009-1-ND	.30	2.25	10.50	587-1009-2-ND	29.00/M	UVK105CH1R2BW-F
		50	1.3	±0.1pF	587-1010-1-ND	.30	2.25	10.50	587-1010-2-ND	29.00/M	UVK105CH1R3BW-F
		50	1.5	±0.1pF	587-1011-1-ND	.30	2.25	10.50	587-1011-2-ND	29.00/M	UVK105CH1R5BW-F
		50	1.6	±0.1pF	587-1012-1-ND	.30	2.25	10.50	587-1012-2-ND	29.00/M	UVK105CH1R6BW-F
		50	1.8	±0.1pF	587-1013-1-ND	.30	2.25	10.50	587-1013-2-ND	29.00/M	UVK105CH1R8BW-F
		50	2.0	±0.1pF	587-1014-1-ND	.30	2.25	10.50	587-1014-2-ND	29.00/M	UVK105CH020BW-F
		50	2.2	±5%	587-1015-1-ND	.30	2.25	10.50	587-1015-2-ND	29.00/M	UVK105CH2R2JW-F
		50	2.4	±5%	587-1016-1-ND	.30	2.25	10.50	587-1016-2-ND	29.00/M	UVK105CH2R4JW-F
		50	2.7	±5%	587-1017-1-ND	.30	2.25	10.50	587-1017-2-ND	29.00/M	UVK105CH2R7JW-F
		50	3.0	±5%	587-1018-1-ND	.30	2.25	10.50	587-1018-2-ND	29.00/M	UVK105CH030JW-F
		50	3.3	±5%	587-1019-1-ND	.30	2.25	10.50	587-1019-2-ND	29.00/M	UVK105CH3R3JW-F
		50	3.6	±5%	587-1020-1-ND	.30	2.25	10.50	587-1020-2-ND	29.00/M	UVK105CH3R6JW-F
		50	3.9	±5%	587-1021-1-ND	.30	2.25	10.50	587-1021-2-ND	29.00/M	UVK105CH3R9JW-F
		50	4.3	±5%	587-1022-1-ND	.30	2.25	10.50	587-1022-2-ND	29.00/M	UVK105CH4R3JW-F
		50	4.7	±5%	587-1023-1-ND	.30	2.25	10.50	587-1023-2-ND	29.00/M	UVK105CH4R7JW-F
		50	5.1	±5%	587-1024-1-ND	.30	2.25	10.50	587-1024-2-ND	29.00/M	UVK105CH5R1JW-F

Kit

587-1799-ND (TAIYO-HIFREQCAP-V1) 50 each of 25 values (1,250 total pieces) **$60.00**

Super Low Distortion Multilayer Ceramic Capacitors (CFCAP)

Features:

Newly developed dielectric material and the use of nickel for internal electrodes provide excellent temperature characteristics with high capacitance, small case size, and low cost. Low distortion and low shock noise make these capacitors well-suited for use in analog or digital mobile devices. Excellent heat-resistance, high break-down voltage, and mechanical strength make these capacitors well suited for replacing film capacitors.

Applications:

- Signal line for AV products
- Analog signal coupling applications
- PLL circuit of mobile phones
- Good temperature characteristics for time-constant circuits, oscillation circuits and filters

Specifications:

- Operating Temperature: -55°C ~ 125°C

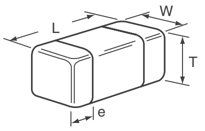

Type (Size Code)	Dimensions (mm) L	W	e
☐MK105 (0402)	1.0	0.5 ±0.05	0.25
☐MK107 (0603)	1.6	0.8 ±0.10	0.35
☐MK212 (0805)	2.0	1.25 ±0.10	0.5
☐MK316 (1206)	3.2	1.6 ±015	0.5

Size Code	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
0402	50	390pF	±5%	0.5	587-1462-1-ND	.44	3.44	17.98	587-1462-2-ND	10,000	55.00/M	UMK105SD391JV-F
	50	390pF	±10%	0.5	587-1461-1-ND	.41	3.23	16.87	—	—	—	UMK105SD391KV-F
	50	470pF	±5%	0.5	587-1464-1-ND	.44	3.44	17.98	587-1464-2-ND	10,000	55.00/M	UMK105SD471JV-F
	50	470pF	±10%	0.5	587-1463-1-ND	.40	3.14	16.41	587-1463-2-ND	10,000	50.00/M	UMK105SD471KV-F
	50	560pF	±5%	0.5	587-1466-1-ND	.54	4.27	22.31	587-1466-2-ND	10,000	68.00/M	UMK105SD561JV-F
	50	560pF	±10%	0.5	587-1465-1-ND	.51	4.00	20.93	587-1465-2-ND	10,000	64.00/M	UMK105SD561KV-F
	25	1000pF	±5%	0.5	587-1051-1-ND	.42	3.32	20.00	587-1051-2-ND	10,000	64.00/M	TMK105SD102JV-F
	25	1200pF	±5%	0.5	587-1053-1-ND	.43	3.40	20.50	587-1053-2-ND	10,000	66.00/M	TMK105SD122JV-F
	16	1500pF	±5%	0.5	587-1055-1-ND	.55	4.29	22.43	587-1055-2-ND	10,000	68.00/M	EMK105SD152JV-F
	16	1500pF	±10%	0.5	587-1056-1-ND	.52	4.07	21.28	587-1056-2-ND	10,000	65.00/M	EMK105SD152KV-F
	16	1800pF	±5%	0.5	587-1057-1-ND	.55	4.29	22.43	587-1057-2-ND	10,000	68.00/M	EMK105SD182JV-F
	16	2200pF	±5%	0.5	587-1059-1-ND	.55	4.29	22.43	587-1059-2-ND	10,000	68.00/M	EMK105SD222JV-F
	16	2700pF	±5%	0.5	587-1061-1-ND	.55	4.29	22.43	587-1061-2-ND	10,000	68.00/M	EMK105SD272JV-F
	10	3300pF	±5%	0.5	587-1063-1-ND	.55	4.29	22.43	587-1063-2-ND	10,000	68.00/M	LMK105SD332JV-F
	10	4700pF	±5%	0.5	587-1067-1-ND	.45	3.57	21.50	587-1067-2-ND	10,000	69.00/M	LMK105SD472JV-F
	10	4700pF	±10%	0.5	587-1068-1-ND	.43	3.40	20.50	587-1068-2-ND	10,000	66.00/M	LMK105SD472KV-F
0603	50	1000pF	±5%	0.8	587-1069-1-ND	.42	3.32	20.00	587-1069-2-ND	4,000	68.00/M	UMK107SD102JA-T
	50	1000pF	±10%	0.8	587-1070-1-ND	.49	3.85	20.13	587-1070-2-ND	4,000	65.00/M	UMK107SD102KA-T
	50	1200pF	±5%	0.8	587-1071-1-ND	.42	3.35	20.20	—	—	—	UMK107SD122JA-T
	50	2700pF	±5%	0.8	587-1079-1-ND	.53	4.15	25.00	587-1079-2-ND	4,000	85.00/M	UMK107SD272JA-T
	50	3300pF	±5%	0.8	587-1081-1-ND	.53	4.15	25.00	587-1081-2-ND	4,000	85.00/M	UMK107SD332JA-T
	25	3900pF	±5%	0.8	587-1083-1-ND	.47	3.74	22.50	587-1083-2-ND	4,000	77.00/M	TMK107SD392JA-T
	25	4700pF	±5%	0.8	587-1085-1-ND	.47	3.74	22.50	587-1085-2-ND	4,000	77.00/M	TMK107SD472JA-T
	16	6800pF	±5%	0.8	587-1089-1-ND	.49	3.90	23.50	587-1089-2-ND	4,000	80.00/M	EMK107SD682JA-T
	16	8200pF	±5%	0.8	587-1091-1-ND	.49	3.90	23.50	587-1091-2-ND	4,000	80.00/M	EMK107SD822JA-T
	16	10000pF	±5%	0.8	587-1093-1-ND	.42	3.32	20.00	587-1093-2-ND	4,000	68.00/M	EMK107SD103JA-T
	16	10000pF	±10%	0.8	587-1094-1-ND	.49	3.85	20.13	587-1094-2-ND	4,000	65.00/M	EMK107SD103KA-T
	10	12000pF	±5%	0.8	587-1095-1-ND	.54	4.23	25.50	587-1095-2-ND	4,000	87.00/M	LMK107SD123JA-T
	10	15000pF	±5%	0.8	587-1097-1-ND	.54	4.23	25.50	587-1097-2-ND	4,000	87.00/M	LMK107SD153JA-T
	10	18000pF	±5%	0.8	587-1099-1-ND	.54	4.23	25.50	587-1099-2-ND	4,000	87.00/M	LMK107SD183JA-T
	10	22000pF	±5%	0.8	587-1101-1-ND	.54	4.23	25.50	587-1101-2-ND	4,000	87.00/M	LMK107SD223JA-T
	10	22000pF	±10%	0.8	587-1102-1-ND	.43	3.40	20.50	587-1102-2-ND	4,000	70.00/M	LMK107SD223KA-T
0805	50	4700pF	±5%	0.85	587-1105-1-ND	.45	3.55	21.41	—	—	—	UMK212SD472JD-T
	50	10000pF	±5%	0.85	587-1113-1-ND	.53	4.15	25.00	587-1113-2-ND	4,000	85.00/M	UMK212SD103JD-T
	50	10000pF	±10%	0.85	587-1114-1-ND	.47	3.74	22.50	587-1114-2-ND	4,000	77.00/M	UMK212SD103KD-T
	35	22000pF	±5%	1.25	587-1121-1-ND	.59	4.65	28.00	587-1121-2-ND	3,000	101.00/M	GMK212SD223JG-T
	35	22000pF	±10%	1.25	587-1122-1-ND	.55	4.32	26.00	587-1122-2-ND	3,000	94.00/M	GMK212SD223KG-T
	35	27000pF	±5%	1.25	587-1123-1-ND	.60	4.73	28.50	587-1123-2-ND	3,000	103.00/M	GMK212SD273JG-T
	16	33000pF	±5%	0.85	587-1125-1-ND	.65	5.16	31.10	587-1125-2-ND	4,000	106.00/M	EMK212SD333JD-T
	16	33000pF	±10%	0.85	587-1126-1-ND	.59	4.65	28.00	587-1126-2-ND	4,000	95.00/M	EMK212SD333KD-T
	10	47000pF	±5%	0.85	587-1127-1-ND	.65	5.15	31.00	587-1127-2-ND	4,000	105.00/M	LMK212SD473JD-T
	10	68000pF	±5%	1.25	587-1129-1-ND	.65	5.15	31.00	587-1129-2-ND	3,000	112.00/M	LMK212SD683JG-T
	10	82000pF	±5%	1.25	587-1131-1-ND	.65	5.15	31.00	587-1131-2-ND	3,000	112.00/M	LMK212SD823JG-T
	10	.10µF	±5%	1.25	587-1133-1-ND	.47	3.74	22.50	587-1133-2-ND	3,000	81.00/M	LMK212SD104JG-T
	10	.10µF	±10%	1.25	587-1134-1-ND	.45	3.57	21.50	587-1134-2-ND	3,000	77.00/M	LMK212SD104KG-T
1206	25	47000pF	±5%	1.15	587-1139-1-ND	.70	5.83	36.54	587-1139-2-ND	3,000	139.00/M	TMK316SD473JF-T
	25	68000pF	±5%	1.15	587-1143-1-ND	.70	5.83	36.54	587-1143-2-ND	3,000	139.00/M	TMK316SD683JF-T
	25	.10µF	±5%	1.6	587-1147-1-ND	.68	5.40	32.50	587-1147-2-ND	2,000	117.00/M	TMK316SD104JL-T
	25	.10µF	±10%	1.6	587-1148-1-ND	.62	4.90	29.50	587-1148-2-ND	2,000	106.00/M	TMK316SD104KL-T

TDK Multilayer Ceramic Chip Capacitors

Features: • High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers • Monolithic structure ensures superior mechanical strength and reliability • High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances • Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes **Applications:** • Cellular phones • Portable/Handheld devices (PDA's, MP3 players, etc) • RF Modules (VCO, TCXO, PA, etc) **Operating Temperature:** • C0G: -55°C ~ 125°C • X6S: -55°C ~ 105°C • X7R: -55°C ~ 125°C • X7S: -55°C ~ 125°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • X8R: -55°C ~ 150°C • SL: 20°C ~ 85°C

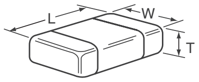

EIA Code	EIAJ Code	Dim. (mm) L	W
0201	0603	0.6	0.3
0204	0510	0.5	1.0
0306	0816	0.8	1.6
0402	1005	1.0	0.5
0508	1220	1.25	2.0
0603	1608	1.6	0.8
0612	1632	1.6	3.2

EIA Code	EIAJ Code	Dim. (mm) L	W
0805	2012	2.0	1.25
1206	3216	3.2	1.6
1210	3225	3.2	2.5
1808	4520	4.5	2.0
1812	4532	4.5	3.2
2220	5750	5.7	5.0

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
0201	C0G (NP0)	50	0.5pF	±0.1pF	0.3	445-2908-1-ND	.33	1.95	5.63	445-2908-2-ND	15,000	5.00/M	C0603C0G1H0R5B
	C0G (NP0)	50	0.5pF	±0.25pF	0.3	445-2918-1-ND	.51	2.99	8.63	445-2918-2-ND	15,000	5.00/M	C0603C0G1H0R5C
	C0G (NP0)	50	1.0pF	±0.1pF	0.3	445-2909-1-ND	.33	1.95	5.63	445-2909-2-ND	15,000	5.00/M	C0603C0G1H010B
	C0G (NP0)	50	1.0pF	±0.25pF	0.3	445-1760-1-ND	.28	1.63	4.69	445-1760-2-ND	15,000	4.50/M	C0603C0G1H010C
	C0G (NP0)	50	1.2pF	±0.25pF	0.3	445-2919-1-ND	.51	2.99	8.63	445-2919-2-ND	15,000	5.00/M	C0603C0G1H1R2C
	C0G (NP0)	50	1.5pF	±0.1pF	0.3	445-2910-1-ND	.33	1.95	5.63	445-2910-2-ND	15,000	5.00/M	C0603C0G1H1R5B
	C0G (NP0)	50	1.5pF	±0.25pF	0.3	445-1770-1-ND	.28	1.63	4.69	445-1770-2-ND	15,000	4.50/M	C0603C0G1H1R5C
	C0G (NP0)	50	1.8pF	±0.25pF	0.3	445-2920-1-ND	.28	1.63	4.69	445-2920-2-ND	15,000	5.00/M	C0603C0G1H1R8C
	C0G (NP0)	50	2.0pF	±0.1pF	0.3	445-2911-1-ND	.33	1.95	5.63	445-2911-2-ND	15,000	5.00/M	C0603C0G1H020B
	C0G (NP0)	50	2.0pF	±0.25pF	0.3	445-1761-1-ND	.28	1.63	4.69	445-1761-2-ND	15,000	4.50/M	C0603C0G1H020C
	C0G (NP0)	50	2.2pF	±0.1pF	0.3	445-2912-1-ND	.33	1.95	5.63	445-2912-2-ND	15,000	5.00/M	C0603C0G1H2R2B
	C0G (NP0)	50	2.2pF	±0.25pF	0.3	445-1771-1-ND	.28	1.63	4.69	445-1771-2-ND	15,000	4.50/M	C0603C0G1H2R2C
	C0G (NP0)	50	2.7pF	±0.25pF	0.3	445-2921-1-ND	.28	1.63	4.69	445-2921-2-ND	15,000	5.00/M	C0603C0G1H2R7C
	C0G (NP0)	50	3.0pF	±0.25pF	0.3	445-1762-1-ND	.28	1.63	4.69	445-1762-2-ND	15,000	4.50/M	C0603C0G1H030C
	C0G (NP0)	50	3.3pF	±0.1pF	0.3	445-2914-1-ND	.33	1.95	5.63	445-2914-2-ND	15,000	5.00/M	C0603C0G1H3R3B
	C0G (NP0)	50	3.3pF	±0.25pF	0.3	445-1772-1-ND	.28	1.63	4.69	445-1772-2-ND	15,000	4.50/M	C0603C0G1H3R3C
	C0G (NP0)	50	3.9pF	±0.25pF	0.3	445-2922-1-ND	.28	1.63	4.69	445-2922-2-ND	15,000	5.00/M	C0603C0G1H3R9C
	C0G (NP0)	50	4.0pF	±0.1pF	0.3	445-2915-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H040B
	C0G (NP0)	50	4.0pF	±0.25pF	0.3	445-1763-1-ND	.51	2.99	8.63	445-1763-2-ND	15,000	4.50/M	C0603C0G1H040C
	C0G (NP0)	50	4.7pF	±0.1pF	0.3	445-2916-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H4R7B
	C0G (NP0)	50	4.7pF	±0.25pF	0.3	445-1773-1-ND	.28	1.63	4.69	445-1773-2-ND	15,000	4.50/M	C0603C0G1H4R7C
	C0G (NP0)	50	5.0pF	±0.1pF	0.3	445-2917-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H050B
	C0G (NP0)	50	5.0pF	±0.25pF	0.3	445-1764-1-ND	.28	1.63	4.69	445-1764-2-ND	15,000	4.50/M	C0603C0G1H050C
	C0G (NP0)	50	5.6pF	±0.25pF	0.3	445-2923-1-ND	.33	1.95	5.63	445-2923-2-ND	15,000	5.00/M	C0603C0G1H5R6C
	C0G (NP0)	50	6.0pF	±0.5pF	0.3	445-1765-1-ND	.51	2.99	8.63	445-1765-2-ND	15,000	4.50/M	C0603C0G1H060D
	C0G (NP0)	50	6.8pF	±0.25pF	0.3	445-2925-1-ND	.33	1.95	5.63	445-2925-2-ND	15,000	5.00/M	C0603C0G1H6R8C
	C0G (NP0)	50	6.8pF	±0.5pF	0.3	445-1774-1-ND	.28	1.63	4.69	445-1774-2-ND	15,000	4.50/M	C0603C0G1H6R8D
	C0G (NP0)	50	7.0pF	±0.25pF	0.3	445-2926-1-ND	.51	2.99	8.63	445-2926-2-ND	15,000	5.00/M	C0603C0G1H070C
	C0G (NP0)	50	7.0pF	±0.5pF	0.3	445-1766-1-ND	.51	2.99	8.63	445-1766-2-ND	15,000	4.50/M	C0603C0G1H070D
	C0G (NP0)	50	8.0pF	±0.25pF	0.3	445-2927-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H080C
	C0G (NP0)	50	8.0pF	±0.5pF	0.3	445-1767-1-ND	.51	2.99	8.63	445-1767-2-ND	15,000	4.50/M	C0603C0G1H080D
	C0G (NP0)	50	8.2pF	±0.25pF	0.3	445-2928-1-ND	.33	1.95	5.63	445-2928-2-ND	15,000	5.00/M	C0603C0G1H8R2C
	C0G (NP0)	50	9.0pF	±0.25pF	0.3	445-2929-1-ND	.33	1.95	5.63	445-2929-2-ND	15,000	5.00/M	C0603C0G1H090C
	C0G (NP0)	50	9.0pF	±0.5pF	0.3	445-1768-1-ND	.51	2.99	8.63	445-1768-2-ND	15,000	4.50/M	C0603C0G1H090D
	C0G (NP0)	50	10pF	±0.25pF	0.3	445-2930-1-ND	.33	1.95	5.63	445-2930-2-ND	15,000	5.00/M	C0603C0G1H100C
	C0G (NP0)	50	10pF	±0.5pF	0.3	445-1769-1-ND	.28	1.63	4.69	445-1769-2-ND	15,000	4.50/M	C0603C0G1H100D
	C0G (NP0)	50	11pF	±5%	0.3	445-2931-1-ND	.33	1.95	5.63	445-2931-2-ND	15,000	5.00/M	C0603C0G1H110J
	C0G (NP0)	50	12pF	±5%	0.3	445-1775-1-ND	.28	1.63	4.69	445-1775-2-ND	15,000	4.50/M	C0603C0G1H120J
	C0G (NP0)	50	13pF	±5%	0.3	445-2932-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H130J
	C0G (NP0)	50	15pF	±5%	0.3	445-1776-1-ND	.28	1.63	4.69	445-1776-2-ND	15,000	4.50/M	C0603C0G1H150J
	C0G (NP0)	50	16pF	±5%	0.3	445-2933-1-ND	.33	1.95	5.63	445-2933-2-ND	15,000	5.00/M	C0603C0G1H160J
	C0G (NP0)	50	18pF	±5%	0.3	445-1777-1-ND	.28	1.63	4.69	445-1777-2-ND	15,000	4.50/M	C0603C0G1H180J
	C0G (NP0)	50	20pF	±5%	0.3	445-2934-1-ND	.33	1.95	5.63	445-2934-2-ND	15,000	5.00/M	C0603C0G1H200J
	C0G (NP0)	50	22pF	±5%	0.3	445-1778-1-ND	.28	1.63	4.69	445-1778-2-ND	15,000	4.50/M	C0603C0G1H220J
	C0G (NP0)	50	24pF	±5%	0.3	445-2935-1-ND	.51	2.99	8.63	445-2935-2-ND	15,000	5.00/M	C0603C0G1H240J
	C0G (NP0)	50	27pF	±5%	0.3	445-1779-1-ND	.28	1.63	4.69	445-1779-2-ND	15,000	4.50/M	C0603C0G1H270J
	C0G (NP0)	50	30pF	±5%	0.3	445-2936-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H300J
	C0G (NP0)	50	33pF	±5%	0.3	445-1780-1-ND	.28	1.63	4.69	445-1780-2-ND	15,000	4.50/M	C0603C0G1H330J
	C0G (NP0)	50	36pF	±5%	0.3	445-2937-1-ND	.33	1.95	5.63	445-2937-2-ND	15,000	5.00/M	C0603C0G1H360J
	C0G (NP0)	50	39pF	±5%	0.3	445-1781-1-ND	.28	1.63	4.69	445-1781-2-ND	15,000	4.50/M	C0603C0G1H390J
	C0G (NP0)	50	43pF	±5%	0.3	445-2938-1-ND	.51	2.99	8.63	445-2938-2-ND	15,000	8.00/M	C0603C0G1H430J
	C0G (NP0)	50	47pF	±5%	0.3	445-1782-1-ND	.28	1.63	4.69	445-1782-2-ND	15,000	4.50/M	C0603C0G1H470J
	C0G (NP0)	50	51pF	±5%	0.3	445-2939-1-ND	.33	1.95	5.63	445-2939-2-ND	15,000	5.00/M	C0603C0G1H510J
	C0G (NP0)	50	56pF	±5%	0.3	445-1783-1-ND	.28	1.63	4.69	445-1783-2-ND	15,000	4.50/M	C0603C0G1H560J
	C0G (NP0)	50	68pF	±5%	0.3	445-1784-1-ND	.28	1.63	4.69	445-1784-2-ND	15,000	4.50/M	C0603C0G1H680J
	C0G (NP0)	50	75pF	±5%	0.3	445-2941-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H750J
	C0G (NP0)	50	82pF	±5%	0.3	445-1785-1-ND	.51	2.99	8.63	445-1785-2-ND	15,000	4.50/M	C0603C0G1H820J
	C0G (NP0)	50	91pF	±5%	0.3	445-2942-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H910J
	C0G (NP0)	50	100pF	±5%	0.3	445-1786-1-ND	.28	1.63	4.69	445-1786-2-ND	15,000	4.50/M	C0603C0G1H101J
	C0G (NP0)	25	0.5pF	±0.1pF	0.3	445-4586-1-ND	.30	1.76	5.06	445-4586-2-ND	15,000	5.00/M	C0603C0G1E0R5B
	C0G (NP0)	25	0.5pF	±0.25pF	0.3	445-4587-1-ND	.24	1.43	4.13	445-4587-2-ND	15,000	4.00/M	C0603C0G1E0R5C
	C0G (NP0)	25	0.75pF	±0.1pF	0.3	445-4588-1-ND	.30	1.76	5.06	445-4588-2-ND	15,000	5.00/M	C0603C0G1ER75B
	C0G (NP0)	25	0.75pF	±0.25pF	0.3	445-4589-1-ND	.24	1.43	4.13	445-4589-2-ND	15,000	4.00/M	C0603C0G1ER75C
	C0G (NP0)	25	1.0pF	±0.1pF	0.3	445-4590-1-ND	.30	1.76	5.06	445-4590-2-ND	15,000	5.00/M	C0603C0G1E010B
	C0G (NP0)	25	1.0pF	±0.25pF	0.3	445-4591-1-ND	.24	1.43	4.13	445-4591-2-ND	15,000	4.00/M	C0603C0G1E010C
	C0G (NP0)	25	1.1pF	±0.1pF	0.3	445-4592-1-ND	.55	3.25	9.38	445-4592-2-ND	15,000	9.00/M	C0603C0G1E1R1B
	C0G (NP0)	25	1.1pF	±0.25pF	0.3	445-4593-1-ND	.30	1.76	5.06	445-4593-2-ND	15,000	5.00/M	C0603C0G1E1R1C
	C0G (NP0)	25	1.2pF	±0.1pF	0.3	445-4594-1-ND	.30	1.76	5.06	445-4594-2-ND	15,000	5.00/M	C0603C0G1E1R2B
	C0G (NP0)	25	1.2pF	±0.25pF	0.3	445-4595-1-ND	.24	1.43	4.13	445-4595-2-ND	15,000	4.00/M	C0603C0G1E1R2C
	C0G (NP0)	25	1.3pF	±0.1pF	0.3	445-4596-1-ND	.55	3.25	9.38	445-4596-2-ND	15,000	9.00/M	C0603C0G1E1R3B
	C0G (NP0)	25	1.3pF	±0.25pF	0.3	445-4597-1-ND	.30	1.76	5.06	445-4597-2-ND	15,000	5.00/M	C0603C0G1E1R3C
	C0G (NP0)	25	1.5pF	±0.1pF	0.3	445-4598-1-ND	.30	1.76	5.06	445-4598-2-ND	15,000	5.00/M	C0603C0G1E1R5B
	C0G (NP0)	25	1.5pF	±0.25pF	0.3	445-4599-1-ND	.24	1.43	4.13	445-4599-2-ND	15,000	4.00/M	C0603C0G1E1R5C
	C0G (NP0)	25	1.6pF	±0.1pF	0.3	445-4600-1-ND	.55	3.25	9.38	445-4600-2-ND	15,000	9.00/M	C0603C0G1E1R6B
	C0G (NP0)	25	1.6pF	±0.25pF	0.3	445-4601-1-ND	.30	1.76	5.06	445-4601-2-ND	15,000	5.00/M	C0603C0G1E1R6C
	C0G (NP0)	25	1.8pF	±0.1pF	0.3	445-4602-1-ND	.30	1.76	5.06	445-4602-2-ND	15,000	5.00/M	C0603C0G1E1R8B
	C0G (NP0)	25	1.8pF	±0.25pF	0.3	445-4603-1-ND	.24	1.43	4.13	445-4603-2-ND	15,000	4.00/M	C0603C0G1E1R8C
	C0G (NP0)	25	2.0pF	±0.1pF	0.3	445-4604-1-ND	.30	1.76	5.06	445-4604-2-ND	15,000	5.00/M	C0603C0G1E020B
	C0G (NP0)	25	2.0pF	±0.25pF	0.3	445-4605-1-ND	.24	1.43	4.13	445-4605-2-ND	15,000	4.00/M	C0603C0G1E020C
	C0G (NP0)	25	2.2pF	±0.1pF	0.3	445-4606-1-ND	.30	1.76	5.06	445-4606-2-ND	15,000	5.00/M	C0603C0G1E2R2B
	C0G (NP0)	25	2.2pF	±0.25pF	0.3	445-4607-1-ND	.24	1.43	4.13	445-4607-2-ND	15,000	4.00/M	C0603C0G1E2R2C
	C0G (NP0)	25	2.4pF	±0.1pF	0.3	445-4608-1-ND	.55	3.25	9.38	445-4608-2-ND	15,000	9.00/M	C0603C0G1E2R4B
	C0G (NP0)	25	2.4pF	±0.25pF	0.3	445-4609-1-ND	.30	1.76	5.06	445-4609-2-ND	15,000	5.00/M	C0603C0G1E2R4C
	C0G (NP0)	25	2.7pF	±0.1pF	0.3	445-4610-1-ND	.30	1.76	5.06	445-4610-2-ND	15,000	5.00/M	C0603C0G1E2R7B
	C0G (NP0)	25	2.7pF	±0.25pF	0.3	445-4611-1-ND	.24	1.43	4.13	445-4611-2-ND	15,000	4.00/M	C0603C0G1E2R7C
	C0G (NP0)	25	3.0pF	±0.1pF	0.3	445-4612-1-ND	.30	1.76	5.06	445-4612-2-ND	15,000	5.00/M	C0603C0G1E030B
	C0G (NP0)	25	3.0pF	±0.25pF	0.3	445-4613-1-ND	.24	1.43	4.13	445-4613-2-ND	15,000	4.00/M	C0603C0G1E030C
	C0G (NP0)	25	3.3pF	±0.1pF	0.3	445-4614-1-ND	.30	1.76	5.06	445-4614-2-ND	15,000	5.00/M	C0603C0G1E3R3B
	C0G (NP0)	25	3.3pF	±0.25pF	0.3	445-4615-1-ND	.24	1.43	4.13	445-4615-2-ND	15,000	4.00/M	C0603C0G1E3R3C
	C0G (NP0)	25	3.6pF	±0.1pF	0.3	445-4616-1-ND	.55	3.25	9.38	445-4616-2-ND	15,000	9.00/M	C0603C0G1E3R6B
	C0G (NP0)	25	3.6pF	±0.25pF	0.3	445-4617-1-ND	.30	1.76	5.06	445-4617-2-ND	15,000	5.00/M	C0603C0G1E3R6C
	C0G (NP0)	25	3.9pF	±0.1pF	0.3	445-4618-1-ND	.30	1.76	5.06	445-4618-2-ND	15,000	5.00/M	C0603C0G1E3R9B
	C0G (NP0)	25	3.9pF	±0.25pF	0.3	445-4619-1-ND	.24	1.43	4.13	445-4619-2-ND	15,000	4.00/M	C0603C0G1E3R9C
	C0G (NP0)	25	4.0pF	±0.1pF	0.3	445-4620-1-ND	.30	1.76	5.06	445-4620-2-ND	15,000	5.00/M	C0603C0G1E040B
	C0G (NP0)	25	4.0pF	±0.25pF	0.3	445-4621-1-ND	.24	1.43	4.13	445-4621-2-ND	15,000	4.00/M	C0603C0G1E040C
	C0G (NP0)	25	4.3pF	±0.1pF	0.3	445-4622-1-ND	.55	3.25	9.38	445-4622-2-ND	15,000	9.00/M	C0603C0G1E4R3B

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0201	C0G (NP0)	25	4.3pF	±0.25pF	0.3	445-4623-1-ND	.30	1.76	5.06	445-4623-2-ND	15,000	5.00/M	C0603C0G1E4R3C
	C0G (NP0)	25	4.7pF	±0.1pF	0.3	445-4624-1-ND	.30	1.76	5.06	445-4624-2-ND	15,000	5.00/M	C0603C0G1E4R7B
	C0G (NP0)	25	4.7pF	±0.25pF	0.3	445-4625-1-ND	.24	1.43	4.13	445-4625-2-ND	15,000	4.00/M	C0603C0G1E4R7C
	C0G (NP0)	25	5.0pF	±0.1pF	0.3	445-4626-1-ND	.30	1.76	5.06	445-4626-2-ND	15,000	5.00/M	C0603C0G1E050B
	C0G (NP0)	25	5.0pF	±0.25pF	0.3	445-4627-1-ND	.24	1.43	4.13	445-4627-2-ND	15,000	4.00/M	C0603C0G1E050C
	C0G (NP0)	25	5.1pF	±0.25pF	0.3	445-4628-1-ND	.55	3.25	9.38	445-4628-2-ND	15,000	9.00/M	C0603C0G1E5R1C
	C0G (NP0)	25	5.1pF	±0.5pF	0.3	445-4629-1-ND	.30	1.76	5.06	445-4629-2-ND	15,000	5.00/M	C0603C0G1E5R1D
	C0G (NP0)	25	5.6pF	±0.25pF	0.3	445-4630-1-ND	.30	1.76	5.06	445-4630-2-ND	15,000	5.00/M	C0603C0G1E5R6C
	C0G (NP0)	25	5.6pF	±0.5pF	0.3	445-4631-1-ND	.24	1.43	4.13	445-4631-2-ND	15,000	4.00/M	C0603C0G1E5R6D
	C0G (NP0)	25	6.0pF	±0.25pF	0.3	445-4632-1-ND	.30	1.76	5.06	445-4632-2-ND	15,000	5.00/M	C0603C0G1E060C
	C0G (NP0)	25	6.0pF	±0.5pF	0.3	445-4633-1-ND	.24	1.43	4.13	445-4633-2-ND	15,000	4.00/M	C0603C0G1E060D
	C0G (NP0)	25	6.2pF	±0.25pF	0.3	445-4634-1-ND	.55	3.25	9.38	445-4634-2-ND	15,000	9.00/M	C0603C0G1E6R2C
	C0G (NP0)	25	6.2pF	±0.5pF	0.3	445-4635-1-ND	.30	1.76	5.06	445-4635-2-ND	15,000	5.00/M	C0603C0G1E6R2D
	C0G (NP0)	25	6.8pF	±0.25pF	0.3	445-4636-1-ND	.30	1.76	5.06	445-4636-2-ND	15,000	5.00/M	C0603C0G1E6R8C
	C0G (NP0)	25	6.8pF	±0.5pF	0.3	445-4637-1-ND	.24	1.43	4.13	445-4637-2-ND	15,000	4.00/M	C0603C0G1E6R8D
	C0G (NP0)	25	7.0pF	±0.25pF	0.3	445-4638-1-ND	.30	1.76	5.06	445-4638-2-ND	15,000	5.00/M	C0603C0G1E070C
	C0G (NP0)	25	7.0pF	±0.5pF	0.3	445-4639-1-ND	.24	1.43	4.13	445-4639-2-ND	15,000	4.00/M	C0603C0G1E070D
	C0G (NP0)	25	7.5pF	±0.25pF	0.3	445-4640-1-ND	.55	3.25	9.38	445-4640-2-ND	15,000	9.00/M	C0603C0G1E7R5C
	C0G (NP0)	25	7.5pF	±0.5pF	0.3	445-4641-1-ND	.30	1.76	5.06	445-4641-2-ND	15,000	5.00/M	C0603C0G1E7R5D
	C0G (NP0)	25	8.0pF	±0.25pF	0.3	445-4642-1-ND	.30	1.76	5.06	445-4642-2-ND	15,000	5.00/M	C0603C0G1E080C
	C0G (NP0)	25	8.0pF	±0.5pF	0.3	445-4643-1-ND	.24	1.43	4.13	445-4643-2-ND	15,000	4.00/M	C0603C0G1E080D
	C0G (NP0)	25	8.2pF	±0.25pF	0.3	445-4644-1-ND	.30	1.76	5.06	445-4644-2-ND	15,000	5.00/M	C0603C0G1E8R2C
	C0G (NP0)	25	8.2pF	±0.5pF	0.3	445-4645-1-ND	.24	1.43	4.13	445-4645-2-ND	15,000	4.00/M	C0603C0G1E8R2D
	C0G (NP0)	25	9.0pF	±0.25pF	0.3	445-4646-1-ND	.30	1.76	5.06	445-4646-2-ND	15,000	5.00/M	C0603C0G1E090C
	C0G (NP0)	25	9.0pF	±0.5pF	0.3	445-4647-1-ND	.24	1.43	4.13	445-4647-2-ND	15,000	4.00/M	C0603C0G1E090D
	C0G (NP0)	25	9.1pF	±0.25pF	0.3	445-4648-1-ND	.55	3.25	9.38	445-4648-2-ND	15,000	9.00/M	C0603C0G1E9R1C
	C0G (NP0)	25	9.1pF	±0.5pF	0.3	445-4649-1-ND	.30	1.76	5.06	445-4649-2-ND	15,000	5.00/M	C0603C0G1E9R1D
	C0G (NP0)	25	10pF	±0.25pF	0.3	445-4650-1-ND	.30	1.76	5.06	445-4650-2-ND	15,000	5.00/M	C0603C0G1E100C
	C0G (NP0)	25	10pF	±0.5pF	0.3	445-4651-1-ND	.24	1.43	4.13	445-4651-2-ND	15,000	4.00/M	C0603C0G1E100D
	C0G (NP0)	25	11pF	±5%	0.3	445-4652-1-ND	.30	1.76	5.06	445-4652-2-ND	15,000	5.00/M	C0603C0G1E110J
	C0G (NP0)	25	12pF	±5%	0.3	445-4653-1-ND	.24	1.43	4.13	445-4653-2-ND	15,000	4.00/M	C0603C0G1E120J
	C0G (NP0)	25	13pF	±5%	0.3	445-4654-1-ND	.30	1.76	5.06	445-4654-2-ND	15,000	5.00/M	C0603C0G1E130J
	C0G (NP0)	25	15pF	±5%	0.3	445-4655-1-ND	.24	1.43	4.13	445-4655-2-ND	15,000	4.00/M	C0603C0G1E150J
	C0G (NP0)	25	16pF	±5%	0.3	445-4656-1-ND	.30	1.76	5.06	445-4656-2-ND	15,000	5.00/M	C0603C0G1E160J
	C0G (NP0)	25	18pF	±5%	0.3	445-4657-1-ND	.24	1.43	4.13	445-4657-2-ND	15,000	4.00/M	C0603C0G1E180J
	C0G (NP0)	25	20pF	±5%	0.3	445-4658-1-ND	.30	1.76	5.06	445-4658-2-ND	15,000	5.00/M	C0603C0G1E200J
	C0G (NP0)	25	22pF	±5%	0.3	445-4659-1-ND	.24	1.43	4.13	445-4659-2-ND	15,000	4.00/M	C0603C0G1E220J
	C0G (NP0)	25	24pF	±5%	0.3	445-4660-1-ND	.30	1.76	5.06	445-4660-2-ND	15,000	5.00/M	C0603C0G1E240J
	C0G (NP0)	25	27pF	±5%	0.3	445-4661-1-ND	.24	1.43	4.13	445-4661-2-ND	15,000	4.00/M	C0603C0G1E270J
	C0G (NP0)	25	30pF	±5%	0.3	445-4662-1-ND	.30	1.76	5.06	445-4662-2-ND	15,000	5.00/M	C0603C0G1E300J
	C0G (NP0)	25	33pF	±5%	0.3	445-4663-1-ND	.24	1.43	4.13	445-4663-2-ND	15,000	4.00/M	C0603C0G1E330J
	C0G (NP0)	25	36pF	±5%	0.3	445-4664-1-ND	.30	1.76	5.06	445-4664-2-ND	15,000	5.00/M	C0603C0G1E360J
	C0G (NP0)	25	39pF	±5%	0.3	445-4665-1-ND	.24	1.43	4.13	445-4665-2-ND	15,000	4.00/M	C0603C0G1E390J
	C0G (NP0)	25	43pF	±5%	0.3	445-4666-1-ND	.30	1.76	5.06	445-4666-2-ND	15,000	5.00/M	C0603C0G1E430J
	C0G (NP0)	25	47pF	±5%	0.3	445-4667-1-ND	.24	1.43	4.13	445-4667-2-ND	15,000	4.00/M	C0603C0G1E470J
	C0G (NP0)	25	51pF	±5%	0.3	445-4668-1-ND	.30	1.76	5.06	445-4668-2-ND	15,000	5.00/M	C0603C0G1E510J
	C0G (NP0)	25	56pF	±5%	0.3	445-4669-1-ND	.24	1.43	4.13	445-4669-2-ND	15,000	4.00/M	C0603C0G1E560J
	C0G (NP0)	25	62pF	±5%	0.3	445-4670-1-ND	.30	1.76	5.06	445-4670-2-ND	15,000	5.00/M	C0603C0G1E620J
	C0G (NP0)	25	68pF	±5%	0.3	445-4671-1-ND	.24	1.43	4.13	445-4671-2-ND	15,000	4.00/M	C0603C0G1E680J
	C0G (NP0)	25	75pF	±5%	0.3	445-4672-1-ND	.30	1.76	5.06	445-4672-2-ND	15,000	5.00/M	C0603C0G1E750J
	C0G (NP0)	25	82pF	±5%	0.3	445-4673-1-ND	.24	1.43	4.13	445-4673-2-ND	15,000	4.00/M	C0603C0G1E820J
	C0G (NP0)	25	91pF	±5%	0.3	445-4674-1-ND	.30	1.76	5.06	445-4674-2-ND	15,000	5.00/M	C0603C0G1E910J
	C0G (NP0)	25	100pF	±5%	0.3	445-4675-1-ND	.24	1.43	4.13	445-4675-2-ND	15,000	4.00/M	C0603C0G1E101J
	X5R	50	100pF	±10%	0.3	445-1787-1-ND	.33	1.95	5.63	445-1787-2-ND	15,000	5.40/M	C0603X5R1H101K
	X5R	50	100pF	±20%	0.3	445-4676-1-ND	.33	1.95	5.63	445-4676-2-ND	15,000	5.00/M	C0603X5R1H101M
	X5R	50	150pF	±10%	0.3	445-4677-1-ND	.33	1.95	5.63	445-4677-2-ND	15,000	5.00/M	C0603X5R1H151K
	X5R	50	150pF	±20%	0.3	445-4678-1-ND	.33	1.95	5.63	445-4678-2-ND	15,000	5.00/M	C0603X5R1H151M
	X5R	50	220pF	±10%	0.3	445-1788-1-ND	.49	2.90	8.36	—	—	—	C0603X5R1H221K
	X5R	50	220pF	±20%	0.3	445-4679-1-ND	.33	1.95	5.63	445-4679-2-ND	15,000	5.00/M	C0603X5R1H221M
	X5R	50	330pF	±10%	0.3	445-4680-1-ND	.33	1.95	5.63	445-4680-2-ND	15,000	5.00/M	C0603X5R1H331K
	X5R	50	330pF	±20%	0.3	445-4681-1-ND	.33	1.95	5.63	445-4681-2-ND	15,000	5.00/M	C0603X5R1H331M
	X5R	50	470pF	±10%	0.3	445-1789-1-ND	.33	1.95	5.63	445-1789-2-ND	15,000	5.40/M	C0603X5R1H471K
	X5R	50	470pF	±20%	0.3	445-4682-1-ND	.33	1.95	5.63	445-4682-2-ND	15,000	5.00/M	C0603X5R1H471M
	X5R	25	100pF	±10%	0.3	445-4683-1-ND	.33	1.95	5.63	445-4683-2-ND	15,000	5.00/M	C0603X5R1E101K
	X5R	25	100pF	±20%	0.3	445-4684-1-ND	.33	1.95	5.63	445-4684-2-ND	15,000	5.00/M	C0603X5R1E101M
	X5R	25	150pF	±10%	0.3	445-4685-1-ND	.33	1.95	5.63	445-4685-2-ND	15,000	5.00/M	C0603X5R1E151K
	X5R	25	150pF	±20%	0.3	445-4686-1-ND	.33	1.95	5.63	445-4686-2-ND	15,000	5.00/M	C0603X5R1E151M
	X5R	25	220pF	±10%	0.3	445-4687-1-ND	.33	1.95	5.63	445-4687-2-ND	15,000	5.00/M	C0603X5R1E221K
	X5R	25	220pF	±20%	0.3	445-4688-1-ND	.33	1.95	5.63	445-4688-2-ND	15,000	5.00/M	C0603X5R1E221M
	X5R	25	330pF	±10%	0.3	445-4689-1-ND	.33	1.95	5.63	445-4689-2-ND	15,000	5.00/M	C0603X5R1E331K
	X5R	25	330pF	±20%	0.3	445-4690-1-ND	.33	1.95	5.63	445-4690-2-ND	15,000	5.00/M	C0603X5R1E331M
	X5R	25	470pF	±10%	0.3	445-4691-1-ND	.33	1.95	5.63	445-4691-2-ND	15,000	5.00/M	C0603X5R1E471K
	X5R	25	470pF	±20%	0.3	445-4692-1-ND	.33	1.95	5.63	445-4692-2-ND	15,000	5.00/M	C0603X5R1E471M
	X5R	25	680pF	±10%	0.3	445-4693-1-ND	.33	1.95	5.63	445-4693-2-ND	15,000	5.00/M	C0603X5R1E681K
	X5R	25	680pF	±20%	0.3	445-4694-1-ND	.33	1.95	5.63	445-4694-2-ND	15,000	5.00/M	C0603X5R1E681M
	X5R	25	1000pF	±10%	0.3	445-1790-1-ND	.33	1.95	5.63	445-1790-2-ND	15,000	5.40/M	C0603X5R1E102K
	X5R	25	1000pF	±20%	0.3	445-4695-1-ND	.33	1.95	5.63	445-4695-2-ND	15,000	5.00/M	C0603X5R1E102M
	X5R	25	1500pF	±10%	0.3	445-4696-1-ND	.33	1.95	5.63	445-4696-2-ND	15,000	5.00/M	C0603X5R1E152K
	X5R	25	1500pF	±20%	0.3	445-4697-1-ND	.33	1.95	5.63	445-4697-2-ND	15,000	5.00/M	C0603X5R1E152M
	X5R	25	2200pF	±10%	0.3	445-1791-1-ND	.33	1.95	5.63	445-1791-2-ND	15,000	5.40/M	C0603X5R1E222K
	X5R	25	2200pF	±20%	0.3	445-4698-1-ND	.33	1.95	5.63	445-4698-2-ND	15,000	5.00/M	C0603X5R1E222M
	X5R	25	3300pF	±10%	0.3	445-4699-1-ND	.33	1.95	5.63	445-4699-2-ND	15,000	5.00/M	C0603X5R1E332K
	X5R	25	3300pF	±20%	0.3	445-4700-1-ND	.33	1.95	5.63	445-4700-2-ND	15,000	5.00/M	C0603X5R1E332M
	X5R	16	4700pF	±10%	0.3	445-1792-1-ND	.33	1.95	5.63	445-1792-2-ND	15,000	5.40/M	C0603X5R1C472K
	X5R	16	4700pF	±20%	0.3	445-4701-1-ND	.33	1.95	5.63	445-4701-2-ND	15,000	5.00/M	C0603X5R1C472M
	X5R	10	10000pF	±10%	0.3	445-1793-1-ND	.23	1.37	3.94	445-1793-2-ND	15,000	3.78/M	C0603X5R1A103K
	X5R	10	10000pF	±20%	0.3	445-4702-1-ND	.23	1.37	3.94	445-4702-2-ND	15,000	4.00/M	C0603X5R1A103M
	X5R	6.3	10000pF	±10%	0.3	445-4703-1-ND	.23	1.37	3.94	445-4703-2-ND	15,000	4.00/M	C0603X5R0J103K
	X5R	6.3	10000pF	±20%	0.3	445-4704-1-ND	.23	1.37	3.94	445-4704-2-ND	15,000	4.00/M	C0603X5R0J103M
	X5R	6.3	15000pF	±10%	0.3	445-4705-1-ND	.30	1.76	5.06	445-4705-2-ND	15,000	5.00/M	C0603X5R0J153K
	X5R	6.3	15000pF	±20%	0.3	445-4706-1-ND	.30	1.76	5.06	445-4706-2-ND	15,000	5.00/M	C0603X5R0J153M
	X5R	6.3	22000pF	±10%	0.3	445-1794-1-ND	.30	1.76	5.06	445-1794-2-ND	15,000	4.86/M	C0603X5R0J223K
	X5R	6.3	22000pF	±20%	0.3	445-4707-1-ND	.30	1.76	5.06	445-4707-2-ND	15,000	5.00/M	C0603X5R0J223M
	X5R	6.3	33000pF	±10%	0.3	445-4708-1-ND	.36	2.15	6.19	445-4708-2-ND	15,000	6.00/M	C0603X5R0J333K
	X5R	6.3	33000pF	±20%	0.3	445-4709-1-ND	.36	2.15	6.19	445-4709-2-ND	15,000	6.00/M	C0603X5R0J333M
	X5R	6.3	47000pF	±10%	0.3	445-1795-1-ND	.36	2.15	6.19	445-1795-2-ND	15,000	5.94/M	C0603X5R0J473K
	X5R	6.3	47000pF	±20%	0.3	445-4710-1-ND	.36	2.15	6.19	445-4710-2-ND	15,000	6.00/M	C0603X5R0J473M
	X5R	6.3	0.1µF	±10%	0.3	445-1796-1-ND	.30	1.76	5.06	445-1796-2-ND	15,000	4.86/M	C0603X5R0J104K
	X5R	6.3	0.1µF	±20%	0.3	445-4711-1-ND	.30	1.76	5.06	445-4711-2-ND	15,000	5.00/M	C0603X5R0J104M
	X6S	4.0	0.1µF	±10%	0.3	445-4712-1-ND	.42	2.47	7.13	445-4712-2-ND	15,000	7.00/M	C0603X6S0G104K
	X6S	4.0	0.1µF	±20%	0.3	445-4713-1-ND	.42	2.47	7.13	445-4713-2-ND	15,000	7.00/M	C0603X6S0G104M
	Y5V	16	10000pF	+80/-20%	0.3	445-1797-1-ND	.33	1.95	5.63	445-1797-2-ND	15,000	5.40/M	C0603Y5V1C103Z
0204	X6S	4	.10µF	±20%	0.3	445-4061-1-ND	3.30	19.50	56.25	445-4061-2-ND	15,000	54.00/M	C0510X6S0G104M
0306	X7R	16	10000pF	±10%	0.5	445-1798-1-ND	2.93	17.34	50.03	445-1798-2-ND	4,000	48.03/M	C0816X7R1C103K
	X7R	16	22000pF	±10%	0.5	445-1799-1-ND	3.17	18.73	54.02	445-1799-2-ND	4,000	51.86/M	C0816X7R1C223K

(Continued)

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Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0306	X7R	16	47000pF	±10%	0.5	445-1800-1-ND	3.52	20.81	60.02	445-1800-2-ND	4,000	57.62/M	C0816X7R1C473K
	X7R	16	0.1µF	±10%	0.5	445-1801-1-ND	3.76	22.19	64.01	445-1801-2-ND	4,000	61.46/M	C0816X7R1C104K
	X7R	6.3	0.22µF	±10%	0.6	445-4065-1-ND	3.74	22.10	63.75	445-4065-2-ND	4,000	61.00/M	C0816X7R0J224K
	X7S	4	0.47µF	±10%	0.5	445-4068-1-ND	4.07	24.05	69.38	445-4068-2-ND	4,000	67.00/M	C0816X7S0G474K
	X7S	4	1.0µF	±20%	0.5	445-4066-1-ND	4.40	26.00	75.00	445-4066-2-ND	4,000	72.00/M	C0816X7S0G105M
	X7S	4	2.2µF	±20%	0.5	445-4067-1-ND	6.16	36.40	105.00	445-4067-2-ND	4,000	101.00/M	C0816X7S0G225M
	X5R	10	0.22µF	±10%	0.5	445-1802-1-ND	3.99	23.58	68.03	445-1802-2-ND	4,000	65.31/M	C0816X5R1A224K
	X5R	6.3	0.47µF	±10%	0.5	445-4064-1-ND	4.07	24.05	69.38	445-4064-2-ND	4,000	67.00/M	C0816X5R0J474K
	X5R	6.3	1.0µF	±20%	0.5	445-4062-1-ND	4.40	26.00	75.00	445-4062-2-ND	4,000	72.00/M	C0816X5R0J105M
	X5R	6.3	2.2µF	±20%	0.5	445-4063-1-ND	6.16	36.40	105.00	445-4063-2-ND	4,000	101.00/M	C0816X5R0J225M
0402	C0G (NP0)	50	0.5pF	±0.1pF	0.5	445-4851-1-ND	.26	1.56	4.50	445-4851-2-ND	10,000	4.32/M	C1005C0G1H0R5B
	C0G (NP0)	50	0.5pF	±0.25pF	0.5	445-4852-1-ND	.24	1.43	4.13	445-4852-2-ND	10,000	3.96/M	C1005C0G1H0R5C
	C0G (NP0)	50	0.75pF	±0.25pF	0.5	445-4853-1-ND	.24	1.43	4.13	445-4853-2-ND	10,000	3.96/M	C1005C0G1HR75C
	C0G (NP0)	50	1.0pF	±0.1pF	0.5	445-4854-1-ND	.24	1.43	4.13	445-4854-2-ND	10,000	3.96/M	C1005C0G1H010B
	C0G (NP0)	50	1.0pF	±0.25pF	0.5	445-4855-1-ND	.18	1.04	3.00	445-4855-2-ND	10,000	2.88/M	C1005C0G1H010C
	C0G (NP0)	50	1.2pF	±0.1pF	0.5	445-4856-1-ND	.24	1.43	4.13	445-4856-2-ND	10,000	3.96/M	C1005C0G1H1R2B
	C0G (NP0)	50	1.2pF	±0.25pF	0.5	445-4857-1-ND	.22	1.30	3.75	445-4857-2-ND	10,000	3.60/M	C1005C0G1H1R2C
	C0G (NP0)	50	1.5pF	±0.1pF	0.5	445-4858-1-ND	.24	1.43	4.13	445-4858-2-ND	10,000	3.96/M	C1005C0G1H1R5B
	C0G (NP0)	50	1.5pF	±0.25pF	0.5	445-4859-1-ND	.22	1.30	3.75	445-4859-2-ND	10,000	3.60/M	C1005C0G1H1R5C
	C0G (NP0)	50	1.8pF	±0.1pF	0.5	445-4860-1-ND	.24	1.43	4.13	445-4860-2-ND	10,000	3.96/M	C1005C0G1H1R8B
	C0G (NP0)	50	1.8pF	±0.25pF	0.5	445-4861-1-ND	.22	1.30	3.75	445-4861-2-ND	10,000	3.60/M	C1005C0G1H1R8C
	C0G (NP0)	50	2.0pF	±0.1pF	0.5	445-4862-1-ND	.24	1.43	4.13	445-4862-2-ND	10,000	3.96/M	C1005C0G1H020B
	C0G (NP0)	50	2.0pF	±0.25pF	0.5	445-4863-1-ND	.22	1.30	3.75	445-4863-2-ND	10,000	3.60/M	C1005C0G1H020C
	C0G (NP0)	50	2.2pF	±0.1pF	0.5	445-4864-1-ND	.24	1.43	4.13	445-4864-2-ND	10,000	3.96/M	C1005C0G1H2R2B
	C0G (NP0)	50	2.2pF	±0.25pF	0.5	445-4865-1-ND	.22	1.30	3.75	445-4865-2-ND	10,000	3.60/M	C1005C0G1H2R2C
	C0G (NP0)	50	2.5pF	±0.25pF	0.5	445-4866-1-ND	.24	1.43	4.13	445-4866-2-ND	10,000	3.96/M	C1005C0G1H2R5C
	C0G (NP0)	50	2.7pF	±0.1pF	0.5	445-4867-1-ND	.24	1.43	4.13	445-4867-2-ND	10,000	3.96/M	C1005C0G1H2R7B
	C0G (NP0)	50	2.7pF	±0.25pF	0.5	445-4868-1-ND	.22	1.30	3.75	445-4868-2-ND	10,000	3.60/M	C1005C0G1H2R7C
	C0G (NP0)	50	3.0pF	±0.1pF	0.5	445-4869-1-ND	.24	1.43	4.13	445-4869-2-ND	10,000	3.96/M	C1005C0G1H030B
	C0G (NP0)	50	3.0pF	±0.25pF	0.5	445-4870-1-ND	.19	1.11	3.19	445-4870-2-ND	10,000	3.06/M	C1005C0G1H030C
	C0G (NP0)	50	3.3pF	±0.1pF	0.5	445-4871-1-ND	.24	1.43	4.13	445-4871-2-ND	10,000	3.96/M	C1005C0G1H3R3B
	C0G (NP0)	50	3.3pF	±0.25pF	0.5	445-4872-1-ND	.22	1.30	3.75	445-4872-2-ND	10,000	3.60/M	C1005C0G1H3R3C
	C0G (NP0)	50	3.5pF	±0.25pF	0.5	445-4873-1-ND	.24	1.43	4.13	445-4873-2-ND	10,000	3.96/M	C1005C0G1H3R5C
	C0G (NP0)	50	3.9pF	±0.1pF	0.5	445-4874-1-ND	.24	1.43	4.13	445-4874-2-ND	10,000	3.96/M	C1005C0G1H3R9B
	C0G (NP0)	50	3.9pF	±0.25pF	0.5	445-4875-1-ND	.22	1.30	3.75	445-4875-2-ND	10,000	3.60/M	C1005C0G1H3R9C
	C0G (NP0)	50	4.0pF	±0.1pF	0.5	445-4876-1-ND	.24	1.43	4.13	445-4876-2-ND	10,000	3.96/M	C1005C0G1H040B
	C0G (NP0)	50	4.0pF	±0.25pF	0.5	445-4877-1-ND	.19	1.11	3.19	445-4877-2-ND	10,000	3.06/M	C1005C0G1H040C
	C0G (NP0)	50	4.7pF	±0.1pF	0.5	445-4878-1-ND	.24	1.43	4.13	445-4878-2-ND	10,000	3.96/M	C1005C0G1H4R7B
	C0G (NP0)	50	4.7pF	±0.25pF	0.5	445-4879-1-ND	.22	1.30	3.75	445-4879-2-ND	10,000	3.60/M	C1005C0G1H4R7C
	C0G (NP0)	50	5.0pF	±0.1pF	0.5	445-4880-1-ND	.24	1.43	4.13	445-4880-2-ND	10,000	3.96/M	C1005C0G1H050B
	C0G (NP0)	50	5.0pF	±0.25pF	0.5	445-4881-1-ND	.22	1.30	3.75	445-4881-2-ND	10,000	3.60/M	C1005C0G1H050C
	C0G (NP0)	50	5.6pF	±0.25pF	0.5	445-4882-1-ND	.24	1.43	4.13	445-4882-2-ND	10,000	3.96/M	C1005C0G1H5R6C
	C0G (NP0)	50	5.6pF	±0.5pF	0.5	445-4883-1-ND	.22	1.30	3.75	445-4883-2-ND	10,000	3.60/M	C1005C0G1H5R6D
	C0G (NP0)	50	6.0pF	±0.25pF	0.5	445-4884-1-ND	.24	1.43	4.13	445-4884-2-ND	10,000	3.96/M	C1005C0G1H060C
	C0G (NP0)	50	6.0pF	±0.5pF	0.5	445-4885-1-ND	.19	1.11	3.19	445-4885-2-ND	10,000	3.06/M	C1005C0G1H060D
	C0G (NP0)	50	6.8pF	±0.25pF	0.5	445-4886-1-ND	.24	1.43	4.13	445-4886-2-ND	10,000	3.96/M	C1005C0G1H6R8C
	C0G (NP0)	50	6.8pF	±0.5pF	0.5	445-4887-1-ND	.22	1.30	3.75	445-4887-2-ND	10,000	3.60/M	C1005C0G1H6R8D
	C0G (NP0)	50	7.0pF	±0.25pF	0.5	445-4888-1-ND	.24	1.43	4.13	445-4888-2-ND	10,000	3.96/M	C1005C0G1H070C
	C0G (NP0)	50	7.0pF	±0.5pF	0.5	445-4889-1-ND	.19	1.11	3.19	445-4889-2-ND	10,000	3.06/M	C1005C0G1H070D
	C0G (NP0)	50	8.0pF	±0.25pF	0.5	445-4890-1-ND	.24	1.43	4.13	445-4890-2-ND	10,000	3.96/M	C1005C0G1H080C
	C0G (NP0)	50	8.0pF	±0.5pF	0.5	445-4891-1-ND	.22	1.30	3.75	445-4891-2-ND	10,000	3.60/M	C1005C0G1H080D
	C0G (NP0)	50	8.2pF	±0.25pF	0.5	445-4892-1-ND	.24	1.43	4.13	445-4892-2-ND	10,000	3.96/M	C1005C0G1H8R2C
	C0G (NP0)	50	8.2pF	±0.5pF	0.5	445-4893-1-ND	.22	1.30	3.75	445-4893-2-ND	10,000	3.60/M	C1005C0G1H8R2D
	C0G (NP0)	50	9.0pF	±0.25pF	0.5	445-4894-1-ND	.24	1.43	4.13	445-4894-2-ND	10,000	3.96/M	C1005C0G1H090C
	C0G (NP0)	50	9.0pF	±0.5pF	0.5	445-4895-1-ND	.20	1.17	3.38	445-4895-2-ND	10,000	3.24/M	C1005C0G1H090D
	C0G (NP0)	50	10pF	±0.25pF	0.5	445-4896-1-ND	.23	1.37	3.94	445-4896-2-ND	10,000	3.78/M	C1005C0G1H100C
	C0G (NP0)	50	10pF	±0.5pF	0.5	445-1235-1-ND	.19	1.11	3.19	445-1235-2-ND	10,000	3.06/M	C1005C0G1H100D
	C0G (NP0)	50	11pF	±5%	0.5	445-4897-1-ND	.24	1.43	4.13	445-4897-2-ND	10,000	3.96/M	C1005C0G1H110J
	C0G (NP0)	50	12pF	±5%	0.5	445-1236-1-ND	.22	1.30	3.75	445-1236-2-ND	10,000	3.60/M	C1005C0G1H120J
	C0G (NP0)	50	13pF	±5%	0.5	445-4898-1-ND	.24	1.43	4.13	445-4898-2-ND	10,000	3.96/M	C1005C0G1H130J
	C0G (NP0)	50	15pF	±5%	0.5	445-1237-1-ND	.19	1.11	3.19	445-1237-2-ND	10,000	3.06/M	C1005C0G1H150J
	C0G (NP0)	50	16pF	±5%	0.5	445-4899-1-ND	.24	1.43	4.13	445-4899-2-ND	10,000	3.96/M	C1005C0G1H160J
	C0G (NP0)	50	18pF	±5%	0.5	445-1238-1-ND	.20	1.17	3.38	445-1238-2-ND	10,000	3.24/M	C1005C0G1H180J
	C0G (NP0)	50	20pF	±5%	0.5	445-4900-1-ND	.24	1.43	4.13	445-4900-2-ND	10,000	3.96/M	C1005C0G1H200J
	C0G (NP0)	50	22pF	±1%	0.5	445-5360-1-ND ***NEW!***	6.05	35.75	103.13	445-5360-2-ND ***NEW!***	10,000	99.00/M	C1005C0G1H220F
	C0G (NP0)	50	22pF	±2%	0.5	445-5363-1-ND ***NEW!***	4.18	24.70	71.25	445-5363-2-ND ***NEW!***	10,000	68.00/M	C1005C0G1H220G
	C0G (NP0)	50	22pF	±5%	0.5	445-1239-1-ND	.19	1.11	3.19	445-1239-2-ND	10,000	3.06/M	C1005C0G1H220J
	C0G (NP0)	50	24pF	±5%	0.5	445-4901-1-ND	.24	1.43	4.13	445-4901-2-ND	10,000	3.96/M	C1005C0G1H240J
	C0G (NP0)	50	27pF	±5%	0.5	445-1240-1-ND	.19	1.11	3.19	445-1240-2-ND	10,000	3.06/M	C1005C0G1H270J
	C0G (NP0)	50	30pF	±5%	0.5	445-4902-1-ND	.24	1.43	4.13	445-4902-2-ND	10,000	3.96/M	C1005C0G1H300J
	C0G (NP0)	50	33pF	±5%	0.5	445-1241-1-ND	.19	1.11	3.19	445-1241-2-ND	10,000	3.06/M	C1005C0G1H330J
	C0G (NP0)	50	36pF	±5%	0.5	445-4903-1-ND	.24	1.43	4.13	445-4903-2-ND	10,000	3.96/M	C1005C0G1H360J
	C0G (NP0)	50	39pF	±5%	0.5	445-1242-1-ND	.19	1.11	3.19	445-1242-2-ND	10,000	3.06/M	C1005C0G1H390J
	C0G (NP0)	50	43pF	±5%	0.5	445-4904-1-ND	.24	1.43	4.13	445-4904-2-ND	10,000	3.96/M	C1005C0G1H430J
	C0G (NP0)	50	47pF	±1%	0.5	445-5361-1-ND ***NEW!***	6.05	35.75	103.13	445-5361-2-ND ***NEW!***	10,000	99.00/M	C1005C0G1H470F
	C0G (NP0)	50	47pF	±2%	0.5	445-5364-1-ND ***NEW!***	5.50	32.50	93.75	445-5364-2-ND ***NEW!***	10,000	90.00/M	C1005C0G1H470G
	C0G (NP0)	50	47pF	±5%	0.5	445-1243-1-ND	.20	1.17	3.38	445-1243-2-ND	10,000	3.24/M	C1005C0G1H470J
	C0G (NP0)	50	51pF	±5%	0.5	445-4905-1-ND	.24	1.43	4.13	445-4905-2-ND	10,000	3.96/M	C1005C0G1H510J
	C0G (NP0)	50	56pF	±5%	0.5	445-1244-1-ND	.22	1.30	3.75	445-1244-2-ND	10,000	3.60/M	C1005C0G1H560J
	C0G (NP0)	50	62pF	±5%	0.5	445-4906-1-ND	.24	1.43	4.13	445-4906-2-ND	10,000	3.96/M	C1005C0G1H620J
	C0G (NP0)	50	68pF	±5%	0.5	445-1245-1-ND	.22	1.30	3.75	445-1245-2-ND	10,000	3.60/M	C1005C0G1H680J
	C0G (NP0)	50	75pF	±5%	0.5	445-4907-1-ND	.24	1.43	4.13	445-4907-2-ND	10,000	3.96/M	C1005C0G1H750J
	C0G (NP0)	50	82pF	±5%	0.5	445-1246-1-ND	.19	1.11	3.19	445-1246-2-ND	10,000	3.06/M	C1005C0G1H820J
	C0G (NP0)	50	91pF	±5%	0.5	445-4908-1-ND	.24	1.43	4.13	445-4908-2-ND	10,000	3.96/M	C1005C0G1H910J
	C0G (NP0)	50	100pF	±1%	0.5	445-5362-1-ND ***NEW!***	6.05	35.75	103.13	445-5362-2-ND ***NEW!***	10,000	99.00/M	C1005C0G1H101F
	C0G (NP0)	50	100pF	±2%	0.5	445-5365-1-ND ***NEW!***	5.50	32.50	93.75	445-5365-2-ND ***NEW!***	10,000	90.00/M	C1005C0G1H101G
	C0G (NP0)	50	100pF	±5%	0.5	445-1247-1-ND	.19	1.11	3.19	445-1247-2-ND	10,000	3.06/M	C1005C0G1H101J
	C0G (NP0)	50	120pF	±5%	0.5	445-1248-1-ND	.20	1.17	3.38	445-1248-2-ND	10,000	3.24/M	C1005C0G1H121J
	C0G (NP0)	50	150pF	±5%	0.5	445-1249-1-ND	.26	1.56	4.50	445-1249-2-ND	10,000	4.32/M	C1005C0G1H151J
	C0G (NP0)	50	180pF	±5%	0.5	445-1250-1-ND	.30	1.76	5.06	445-1250-2-ND	10,000	4.86/M	C1005C0G1H181J
	C0G (NP0)	50	220pF	±5%	0.5	445-1251-1-ND	.26	1.56	4.50	445-1251-2-ND	10,000	4.32/M	C1005C0G1H221J
	C0G (NP0)	50	270pF	±5%	0.5	445-1252-1-ND	.35	2.08	6.00	445-1252-2-ND	10,000	5.76/M	C1005C0G1H271J
	C0G (NP0)	50	330pF	±5%	0.5	445-1253-1-ND	.35	2.08	6.00	445-1253-2-ND	10,000	5.76/M	C1005C0G1H331J
	C0G (NP0)	50	390pF	±5%	0.5	445-2655-1-ND	.88	5.20	15.00	—	—	—	C1005C0G1H391J
	C0G (NP0)	25	820pF	±5%	0.5	445-2654-1-ND	1.10	6.50	18.75	—	—	—	C1005C0G1E821J
	C0G (NP0)	25	1000pF	±5%	0.5	445-2651-1-ND	1.10	6.50	18.75	445-2651-2-ND	10,000	18.00/M	C1005C0G1E102J
	X7R	50	220pF	±10%	0.5	445-1254-1-ND	.22	1.30	3.75	445-1254-2-ND	10,000	3.60/M	C1005X7R1H221K
	X7R	50	220pF	±20%	0.5	445-4909-1-ND	.22	1.30	3.75	445-4909-2-ND	10,000	3.60/M	C1005X7R1H221M
	X7R	50	330pF	±10%	0.5	445-4910-1-ND	.20	1.17	3.38	445-4910-2-ND	10,000	3.24/M	C1005X7R1H331K
	X7R	50	330pF	±20%	0.5	445-4911-1-ND	.22	1.30	3.75	445-4911-2-ND	10,000	3.60/M	C1005X7R1H331M
	X7R	50	470pF	±10%	0.5	445-1255-1-ND	.22	1.30	3.75	445-1255-2-ND	10,000	3.60/M	C1005X7R1H471K
	X7R	50	470pF	±20%	0.5	445-4912-1-ND	.22	1.30	3.75	445-4912-2-ND	10,000	3.60/M	C1005X7R1H471M
	X7R	50	680pF	±10%	0.5	445-4913-1-ND	.22	1.30	3.75	445-4913-2-ND	10,000	3.60/M	C1005X7R1H681K
	X7R	50	680pF	±20%	0.5	445-4914-1-ND	.22	1.30	3.75	445-4914-2-ND	10,000	3.60/M	C1005X7R1H681M
	X7R	50	1000pF	±10%	0.5	445-1256-1-ND	.18	1.04	3.00	445-1256-2-ND	10,000	2.88/M	C1005X7R1H102K

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0402	X7R	50	100pF	±20%	0.5	445-4915-1-ND	.22	1.30	3.75	445-4915-2-ND	10,000	3.60/M	C1005X7R1H102M
	X7R	50	1500pF	±10%	0.5	445-4916-1-ND	.23	1.37	3.94	445-4916-2-ND	10,000	3.78/M	C1005X7R1H152K
	X7R	50	1500pF	±20%	0.5	445-4917-1-ND	.23	1.37	3.94	445-4917-2-ND	10,000	3.78/M	C1005X7R1H152M
	X7R	50	2200pF	±10%	0.5	445-1257-1-ND	.22	1.30	3.75	—	—	—	C1005X7R1H222K
	X7R	50	2200pF	±20%	0.5	445-4918-1-ND	.22	1.30	3.75	445-4918-2-ND	10,000	3.60/M	C1005X7R1H222M
	X7R	50	3300pF	±10%	0.5	445-4919-1-ND	.20	1.17	3.38	445-4919-2-ND	10,000	3.24/M	C1005X7R1H332K
	X7R	50	3300pF	±20%	0.5	445-4920-1-ND	.23	1.37	3.94	445-4920-2-ND	10,000	3.78/M	C1005X7R1H332M
	X7R	50	4700pF	±10%	0.5	445-1258-1-ND	.22	1.30	3.75	445-1258-2-ND	10,000	3.60/M	C1005X7R1H472K
	X7R	50	4700pF	±20%	0.5	445-4921-1-ND	.22	1.30	3.75	445-4921-2-ND	10,000	3.60/M	C1005X7R1H472M
	X7R	50	6800pF	±10%	0.5	445-4922-1-ND	.24	1.43	4.13	445-4922-2-ND	10,000	3.96/M	C1005X7R1H682K
	X7R	50	6800pF	±20%	0.5	445-4923-1-ND	.24	1.43	4.13	445-4923-2-ND	10,000	3.96/M	C1005X7R1H682M
	X7R	25	1000pF	±10%	0.5	445-4924-1-ND	.22	1.30	3.75	445-4924-2-ND	10,000	3.60/M	C1005X7R1E102K
	X7R	25	1000pF	±20%	0.5	445-4925-1-ND	.22	1.30	3.75	445-4925-2-ND	10,000	3.60/M	C1005X7R1E102M
	X7R	25	1500pF	±10%	0.5	445-4926-1-ND	.23	1.37	3.94	445-4926-2-ND	10,000	3.78/M	C1005X7R1E152K
	X7R	25	1500pF	±20%	0.5	445-4927-1-ND	.23	1.37	3.94	445-4927-2-ND	10,000	3.78/M	C1005X7R1E152M
	X7R	25	2200pF	±10%	0.5	445-4928-1-ND	.22	1.30	3.75	445-4928-2-ND	10,000	3.60/M	C1005X7R1E222K
	X7R	25	2200pF	±20%	0.5	445-4929-1-ND	.22	1.30	3.75	445-4929-2-ND	10,000	3.60/M	C1005X7R1E222M
	X7R	25	3300pF	±10%	0.5	445-4930-1-ND	.19	1.11	3.19	445-4930-2-ND	10,000	3.06/M	C1005X7R1E332K
	X7R	25	3300pF	±20%	0.5	445-4931-1-ND	.23	1.37	3.94	445-4931-2-ND	10,000	3.78/M	C1005X7R1E332M
	X7R	25	4700pF	±10%	0.5	445-1259-1-ND	.19	1.11	3.19	445-1259-2-ND	10,000	3.06/M	C1005X7R1E472K
	X7R	25	4700pF	±20%	0.5	445-4932-1-ND	.22	1.30	3.75	445-4932-2-ND	10,000	3.60/M	C1005X7R1E472M
	X7R	25	6800pF	±10%	0.5	445-4933-1-ND	.24	1.43	4.13	445-4933-2-ND	10,000	3.96/M	C1005X7R1E682K
	X7R	25	6800pF	±20%	0.5	445-4934-1-ND	.24	1.43	4.13	445-4934-2-ND	10,000	3.96/M	C1005X7R1E682M
	X7R	25	10000pF	±10%	0.5	445-1260-1-ND	.14	.85	2.44	445-1260-2-ND	10,000	2.34/M	C1005X7R1E103K
	X7R	25	10000pF	±20%	0.5	445-4935-1-ND	.22	1.30	3.75	445-4935-2-ND	10,000	3.60/M	C1005X7R1E103M
	X7R	25	15000pF	±10%	0.5	445-4936-1-ND	.30	1.76	5.06	445-4936-2-ND	10,000	4.86/M	C1005X7R1E153K
	X7R	25	15000pF	±20%	0.5	445-4937-1-ND	.30	1.76	5.06	445-4937-2-ND	10,000	4.86/M	C1005X7R1E153M
	X7R	25	22000pF	±10%	0.5	445-1261-1-ND	.30	1.76	5.06	445-1261-2-ND	10,000	4.86/M	C1005X7R1E223K
	X7R	25	22000pF	±20%	0.5	445-4938-1-ND	.30	1.76	5.06	445-4938-2-ND	10,000	4.86/M	C1005X7R1E223M
	X7R	25	33000pF	±10%	0.5	445-4939-1-ND	.36	2.15	6.19	445-4939-2-ND	10,000	5.94/M	C1005X7R1E333K
	X7R	25	33000pF	±20%	0.5	445-4940-1-ND	.36	2.15	6.19	445-4940-2-ND	10,000	5.94/M	C1005X7R1E333M
	X7R	25	47000pF	±10%	0.5	445-4941-1-ND	.30	1.76	5.06	445-4941-2-ND	10,000	4.86/M	C1005X7R1E473K
	X7R	25	47000pF	±20%	0.5	445-4942-1-ND	.30	1.76	5.06	445-4942-2-ND	10,000	4.86/M	C1005X7R1E473M
	X7R	16	10000pF	±10%	0.5	445-1262-1-ND	.18	1.04	3.00	445-1262-2-ND	10,000	2.88/M	C1005X7R1C103K
	X7R	16	10000pF	±20%	0.5	445-4943-1-ND	.22	1.30	3.75	445-4943-2-ND	10,000	3.60/M	C1005X7R1C103M
	X7R	16	15000pF	±10%	0.5	445-4944-1-ND	.30	1.76	5.06	445-4944-2-ND	10,000	4.86/M	C1005X7R1C153K
	X7R	16	15000pF	±20%	0.5	445-4945-1-ND	.30	1.76	5.06	445-4945-2-ND	10,000	4.86/M	C1005X7R1C153M
	X7R	16	22000pF	±10%	0.5	445-1263-1-ND	.24	1.43	4.13	445-1263-2-ND	10,000	3.96/M	C1005X7R1C223K
	X7R	16	22000pF	±20%	0.5	445-4946-1-ND	.24	1.43	4.13	445-4946-2-ND	10,000	3.96/M	C1005X7R1C223M
	X7R	16	33000pF	±10%	0.5	445-4947-1-ND	.30	1.76	5.06	445-4947-2-ND	10,000	4.86/M	C1005X7R1C333K
	X7R	16	33000pF	±20%	0.5	445-4948-1-ND	.30	1.76	5.06	445-4948-2-ND	10,000	4.86/M	C1005X7R1C333M
	X7R	16	47000pF	±10%	0.5	445-1264-1-ND	.30	1.76	5.06	445-1264-2-ND	10,000	4.86/M	C1005X7R1C473K
	X7R	16	47000pF	±20%	0.5	445-4949-1-ND	.30	1.76	5.06	445-4949-2-ND	10,000	4.86/M	C1005X7R1C473M
	X7R	16	68000pF	±10%	0.5	445-4950-1-ND	.36	2.15	6.19	445-4950-2-ND	10,000	5.94/M	C1005X7R1C683K
	X7R	16	68000pF	±20%	0.5	445-4951-1-ND	.36	2.15	6.19	445-4951-2-ND	10,000	5.94/M	C1005X7R1C683M
	X7R	16	0.1µF	±10%	0.5	445-4952-1-ND	.24	1.43	4.13	445-4952-2-ND	10,000	3.96/M	C1005X7R1C104K
	X7R	16	0.1µF	±20%	0.5	445-4953-1-ND	.24	1.43	4.13	445-4953-2-ND	10,000	3.96/M	C1005X7R1C104M
	X7R	10	47000pF	±10%	0.5	445-4954-1-ND	.30	1.76	5.06	445-4954-2-ND	10,000	4.86/M	C1055X7R1A473K
	X7R	10	47000pF	±20%	0.5	445-4955-1-ND	.30	1.76	5.06	445-4955-2-ND	10,000	4.86/M	C1005X7R1A473M
	X7R	10	68000pF	±10%	0.5	445-4956-1-ND	.36	2.15	6.19	445-4956-2-ND	10,000	5.94/M	C1005X7R1A683K
	X7R	10	68000pF	±20%	0.5	445-4957-1-ND	.36	2.15	6.19	445-4957-2-ND	10,000	5.94/M	C1005X7R1A683M
	X7R	10	0.1µF	±10%	0.5	445-4958-1-ND	.24	1.43	4.13	445-4958-2-ND	10,000	3.96/M	C1005X7R1A104K
	X7R	10	0.1µF	±20%	0.5	445-4959-1-ND	.24	1.43	4.13	445-4959-2-ND	10,000	3.96/M	C1005X7R1A104M
	X7S	100	10000pF	±10%	0.5	445-5199-1-ND	.50	2.93	8.44	445-5199-2-ND	10,000	8.00/M	C1005X7S2A103K
	X7S	100	10000pF	±20%	0.5	445-5200-1-ND	.47	2.80	8.06	445-5200-2-ND	10,000	8.00/M	C1005X7S2A103M
	X6S	6.3	1.0µF	±10%	0.5	445-5000-1-ND	.66	3.90	11.25	445-5000-2-ND	10,000	10.80/M	C1005X6S0J105K
	X6S	6.3	1.0µF	±20%	0.5	445-5001-1-ND	.66	3.90	11.25	445-5001-2-ND	10,000	10.80/M	C1005X6S0J105M
	X6S	4.0	1.0µF	±10%	0.5	445-5002-1-ND	.61	3.58	10.31	445-5002-2-ND	10,000	9.90/M	C1005X6S0G105K
	X6S	4.0	1.0µF	±20%	0.5	445-5003-1-ND	.61	3.58	10.31	445-5003-2-ND	10,000	9.90/M	C1005X6S0G105M
	X6S	4.0	2.2µF	±20%	0.5	445-5004-1-ND	3.03	17.88	51.56	445-5004-2-ND	10,000	49.50/M	C1005X6S0G225M
	X5R	25	47000pF	±10%	0.5	445-4960-1-ND	.36	2.15	6.19	445-4960-2-ND	10,000	5.94/M	C1005X5R1E473K
	X5R	25	47000pF	±20%	0.5	445-4961-1-ND	.36	2.15	6.19	445-4961-2-ND	10,000	5.94/M	C1005X5R1E473M
	X5R	25	68000pF	±10%	0.5	445-4962-1-ND	.55	3.25	9.38	445-4962-2-ND	10,000	9.00/M	C1005X5R1E683K
	X5R	25	68000pF	±20%	0.5	445-4963-1-ND	.55	3.25	9.38	445-4963-2-ND	10,000	9.00/M	C1005X5R1E683M
	X5R	25	0.1µF	±10%	0.5	445-4964-1-ND	.36	2.15	6.19	445-4964-2-ND	10,000	5.94/M	C1005X5R1E104K
	X5R	25	0.1µF	±20%	0.5	445-4965-1-ND	.36	2.15	6.19	445-4965-2-ND	10,000	5.94/M	C1005X5R1E104M
	X5R	16	47000pF	±10%	0.5	445-4966-1-ND	.44	2.60	7.50	445-4966-2-ND	10,000	7.20/M	C1005X5R1C473K
	X5R	16	47000pF	±20%	0.5	445-4967-1-ND	.44	2.60	7.50	445-4967-2-ND	10,000	7.20/M	C1005X5R1C473M
	X5R	16	68000pF	±10%	0.5	445-4968-1-ND	.48	2.86	8.25	445-4968-2-ND	10,000	7.92/M	C1005X5R1C683K
	X5R	16	68000pF	±20%	0.5	445-4969-1-ND	.48	2.86	8.25	445-4969-2-ND	10,000	7.92/M	C1005X5R1C683M
	X5R	16	0.1µF	±10%	0.5	445-4970-1-ND	.24	1.43	4.13	445-4970-2-ND	10,000	3.96/M	C1005X5R1C104K
	X5R	16	0.1µF	±20%	0.5	445-4971-1-ND	.24	1.43	4.13	445-4971-2-ND	10,000	3.96/M	C1005X5R1C104M
	X5R	16	0.22µF	±10%	0.5	445-4972-1-ND	.77	4.55	13.13	445-4972-2-ND	10,000	12.60/M	C1005X5R1C224K
	X5R	16	0.22µF	±20%	0.5	445-4973-1-ND	.77	4.55	13.13	445-4973-2-ND	10,000	12.60/M	C1005X5R1C224M
	X5R	16	0.33µF	±10%	0.5	445-4974-1-ND	.88	5.20	15.00	445-4974-2-ND	10,000	14.40/M	C1005X5R1C334K
	X5R	16	0.33µF	±20%	0.5	445-4975-1-ND	.88	5.20	15.00	445-4975-2-ND	10,000	14.40/M	C1005X5R1C334M
	X5R	16	0.47µF	±10%	0.5	445-4976-1-ND	.88	5.20	15.00	445-4976-2-ND	10,000	14.40/M	C1005X5R1C474K
	X5R	16	0.47µF	±20%	0.5	445-4977-1-ND	.88	5.20	15.00	445-4977-2-ND	10,000	14.40/M	C1005X5R1C474M
	X5R	16	1.0µF	±10%	0.5	445-4978-1-ND	.88	5.20	15.00	445-4978-2-ND	10,000	14.40/M	C1005X5R1C105K
	X5R	16	1.0µF	±20%	0.5	445-4979-1-ND	.88	5.20	15.00	445-4979-2-ND	10,000	14.40/M	C1005X5R1C105M
	X5R	10	47000pF	±10%	0.5	445-4980-1-ND	.26	1.56	4.50	445-4980-2-ND	10,000	4.32/M	C1005X5R1A473K
	X5R	10	47000pF	±20%	0.5	445-4981-1-ND	.30	1.76	5.06	445-4981-2-ND	10,000	4.86/M	C1005X5R1A473M
	X5R	10	68000pF	±10%	0.5	445-4982-1-ND	.36	2.15	6.19	445-4982-2-ND	10,000	5.94/M	C1005X5R1A683K
	X5R	10	68000pF	±20%	0.5	445-4983-1-ND	.36	2.15	6.19	445-4983-2-ND	10,000	5.94/M	C1005X5R1A683M
	X5R	10	0.1µF	±10%	0.5	445-1265-1-ND	.17	.98	2.81	445-1265-2-ND	10,000	2.70/M	C1005X5R1A104K
	X5R	10	0.1µF	±20%	0.5	445-4984-1-ND	.23	1.37	3.94	445-4984-2-ND	10,000	3.78/M	C1005X5R1A104M
	X5R	10	0.22µF	±10%	0.5	445-4985-1-ND	.53	3.12	9.00	445-4985-2-ND	10,000	8.64/M	C1005X5R1A224K
	X5R	10	0.22µF	±20%	0.5	445-4986-1-ND	.53	3.12	9.00	445-4986-2-ND	10,000	8.64/M	C1005X5R1A224M
	X5R	10	0.33µF	±10%	0.5	445-4987-1-ND	.77	4.55	13.13	445-4987-2-ND	10,000	12.60/M	C1005X5R1A334K
	X5R	10	0.33µF	±20%	0.5	445-4988-1-ND	.77	4.55	13.13	445-4988-2-ND	10,000	12.60/M	C1005X5R1A334M
	X5R	10	0.47µF	±10%	0.5	445-4989-1-ND	.77	4.55	13.13	445-4989-2-ND	10,000	12.60/M	C1005X5R1A474K
	X5R	10	0.47µF	±20%	0.5	445-4990-1-ND	.77	4.55	13.13	445-4990-2-ND	10,000	12.60/M	C1005X5R1A474M
	X5R	10	1.0µF	±10%	0.5	445-4114-1-ND	.61	3.58	10.31	445-4114-2-ND	10,000	9.90/M	C1005X5R1A105K
	X5R	10	1.0µF	±20%	0.5	445-4991-1-ND	.61	3.58	10.31	445-4991-2-ND	10,000	9.90/M	C1005X551A105M
	X5R	6.3	0.1µF	±10%	0.5	445-1266-1-ND	.24	1.43	4.13	445-1266-2-ND	10,000	3.96/M	C1005X5R0J104K
	X5R	6.3	0.1µF	±20%	0.5	445-4992-1-ND	.24	1.43	4.13	445-4992-2-ND	10,000	3.96/M	C1005X5R0J104M
	X5R	6.3	0.22µF	±10%	0.5	445-4993-1-ND	.44	2.60	7.50	445-4993-2-ND	10,000	7.20/M	C1005X5R0J224K
	X5R	6.3	0.22µF	±20%	0.5	445-1267-1-ND	.61	3.58	10.31	445-1267-2-ND	10,000	9.90/M	C1005X5R0J224M
	X5R	6.3	0.33µF	±10%	0.5	445-4994-1-ND	.77	4.55	13.13	445-4994-2-ND	10,000	12.60/M	C1005X5R0J334K
	X5R	6.3	0.33µF	±20%	0.5	445-4995-1-ND	.77	4.55	13.13	445-4995-2-ND	10,000	12.60/M	C1005X5R0J334M
	X5R	6.3	0.47µF	±10%	0.5	445-4996-1-ND	.64	3.77	10.88	445-4996-2-ND	10,000	10.44/M	C1005X5R0J474K
	X5R	6.3	0.47µF	±20%	0.5	445-4997-1-ND	.66	3.90	11.25	445-4997-2-ND	10,000	10.80/M	C1005X5R0J474M
	X5R	6.3	1.0µF	±10%	0.5	445-4998-1-ND	.36	2.15	6.19	445-4998-2-ND	10,000	5.94/M	C1005X5R0J105K
	X5R	6.3	1.0µF	±20%	0.5	445-1415-1-ND	.36	2.15	6.19	445-1415-2-ND	10,000	5.94/M	C1005X5R0J105M
	X5R	6.3	2.2µF	±20%	0.5	445-4999-1-ND	2.42	14.30	41.25	445-4999-2-ND	10,000	39.60/M	C1005X5R0J225M

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0402	X5R	4.0	2.2µF	±20%	0.5	445-3882-1-ND	1.65	9.75	28.13	445-3882-2-ND	10,000	27.00/M	C1005X5R0G225M
	Y5V	50	10000pF	+80/-20%	0.5	445-3447-1-ND	.22	1.30	3.75	445-3447-2-ND	10,000	4.00/M	C1005Y5V1H103Z
	Y5V	25	0.1µF	+80/-20%	0.5	445-3445-1-ND	.22	1.30	3.75	445-3445-2-ND	10,000	4.00/M	C1005Y5V1E104Z
	Y5V	25	0.22µF	+80/-20%	0.5	445-3446-1-ND	.55	3.25	9.38	445-3446-2-ND	10,000	9.00/M	C1005Y5V1E224Z
	Y5V	16	0.1µF	+80/-20%	0.5	445-1268-1-ND	.18	1.04	3.00	445-1268-2-ND	10,000	2.88/M	C1005Y5V1C104Z
	Y5V	16	0.22µF	+80/-20%	0.5	445-3444-1-ND	.30	1.76	5.06	445-3444-2-ND	10,000	5.00/M	C1005Y5V1C224Z
	Y5V	10	0.22µF	+80/-20%	0.5	445-3442-1-ND	.30	1.76	5.06	445-3442-2-ND	10,000	5.00/M	C1005Y5V1A224Z
	Y5V	10	0.47µF	+80/-20%	0.5	445-3443-1-ND	.46	2.73	7.88	445-3443-2-ND	10,000	8.00/M	C1005Y5V1A474Z
	Y5V	6.3	1.0µF	+80/-20%	0.5	445-3441-1-ND	.55	3.25	9.38	445-3441-2-ND	10,000	9.00/M	C1005Y5V0J105Z
	X8R	50	150pF	±10%	0.5	445-3416-1-ND	1.10	6.50	18.75	445-3416-2-ND	10,000	18.00/M	C1005X8R1H151K
	X8R	50	220pF	±10%	0.5	445-2495-1-ND	1.10	6.50	18.75	445-2495-2-ND	10,000	18.00/M	C1005X8R1H221K
	X8R	50	330pF	±10%	0.5	445-3418-1-ND	1.10	6.50	18.75	445-3418-2-ND	10,000	18.00/M	C1005X8R1H331K
	X8R	50	470pF	±10%	0.5	445-2496-1-ND	1.65	9.75	28.13	—	—	—	C1005X8R1H471K
	X8R	50	680pF	±10%	0.5	445-3420-1-ND	1.10	6.50	18.75	445-3420-2-ND	10,000	18.00/M	C1005X8R1H681K
	X8R	50	1500pF	±10%	0.5	445-3417-1-ND	1.65	9.75	28.13	445-3417-2-ND	10,000	27.00/M	C1005X8R1H152K
	X8R	50	1000pF	±10%	0.5	445-2497-1-ND	1.65	9.75	28.13	445-2497-2-ND	10,000	27.00/M	C1005X8R1H102K
	X8R	50	2200pF	±10%	0.5	445-2498-1-ND	1.65	9.75	28.13	—	—	—	C1005X8R1H222K
	X8R	50	3300pF	±10%	0.5	445-3419-1-ND	1.65	9.75	28.13	445-3419-2-ND	10,000	27.00/M	C1005X8R1H332K
	X8R	25	6800pF	±10%	0.5	445-3415-1-ND	1.65	9.75	28.13	445-3415-2-ND	10,000	27.00/M	C1005X8R1E682K
	X8R	25	0.01µF	±10%	0.5	445-2494-1-ND	1.65	9.75	28.13	445-2494-2-ND	10,000	27.00/M	C1005X8R1E103K
	SL	10	2700pF	±5%	0.5	445-2661-1-ND	2.20	13.00	37.50	445-2661-2-ND	10,000	36.00/M	C1005SL1A272J
	SL	10	3900pF	±5%	0.5	445-2663-1-ND	2.20	13.00	37.50	—	—	—	C1005SL1A392J
0508	X7R	50	10000pF	±10%	0.85	445-1803-1-ND	3.29	19.42	56.03	445-1803-2-ND	4,000	53.79/M	C1220X7R1H103K
	X7R	50	22000pF	±10%	0.85	445-1804-1-ND	3.52	20.81	60.02	445-1804-2-ND	4,000	57.62/M	C1220X7R1H223K
	X7R	50	47000pF	±10%	0.85	445-1805-1-ND	3.76	22.19	64.01	445-1805-2-ND	4,000	61.46/M	C1220X7R1H473K
	X7R	25	0.1 µF	±10%	0.85	445-1806-1-ND	3.85	22.75	65.63	445-1806-2-ND	4,000	63.00/M	C1220X7R1E104K
	X7R	16	0.22µF	±10%	0.85	445-1807-1-ND	4.23	24.97	72.02	445-1807-2-ND	4,000	69.14/M	C1220X7R1C224K
	X7R	6.3	.47µF	±10%	0.85	445-4071-1-ND	4.40	26.00	75.00	445-4071-2-ND	4,000	72.00/M	C1220X7R0J474K
	X7R	6.3	1.0µF	±20%	0.85	445-4070-1-ND	4.95	29.25	84.38	445-4070-2-ND	4,000	81.00/M	C1220X7R0J105M
	X5R	10	0.47µF	±10%	0.85	445-1808-1-ND	4.46	26.36	76.03	445-1808-2-ND	4,000	72.99/M	C1220X5R1A474K
	X5R	10	1.0µF	±10%	0.85	445-1809-1-ND	4.69	27.74	80.03	445-1809-2-ND	4,000	76.83/M	C1220X5R1A105K
	X5R	10	1.0µF	±20%	0.85	445-4069-1-ND	4.95	29.25	84.38	445-4069-2-ND	4,000	81.00/M	C1220X5R1A105M
0603	C0G (NP0)	250	100pF	±5%	0.8	445-2314-1-ND	.58	3.45	9.96	445-2314-2-ND	4,000	10.00/M	C1608C0G2E101J
	C0G (NP0)	250	120pF	±5%	0.8	445-4127-1-ND	.72	4.26	12.28	445-4127-2-ND	4,000	12.00/M	C1608C0G2E121J
	C0G (NP0)	250	150pF	±5%	0.8	445-2315-1-ND	.72	4.26	12.28	445-2315-2-ND	4,000	12.00/M	C1608C0G2E151J
	C0G (NP0)	250	180pF	±5%	0.8	445-4128-1-ND	.80	4.73	13.65	445-4128-2-ND	4,000	13.00/M	C1608C0G2E181J
	C0G (NP0)	250	220pF	±5%	0.8	445-2316-1-ND	.80	4.73	13.65	445-2316-2-ND	4,000	13.00/M	C1608C0G2E221J
	C0G (NP0)	250	270pF	±5%	0.8	445-4129-1-ND	.88	5.20	15.00	445-4129-2-ND	4,000	14.00/M	C1608C0G2E271J
	C0G (NP0)	250	330pF	±5%	0.8	445-2317-1-ND	.88	5.20	15.00	445-2317-2-ND	4,000	14.00/M	C1608C0G2E331J
	C0G (NP0)	250	390pF	±5%	0.8	445-4130-1-ND	.96	5.67	16.37	445-4130-2-ND	4,000	16.00/M	C1608C0G2E391J
	C0G (NP0)	250	470pF	±5%	0.8	445-2318-1-ND	.96	5.67	16.37	445-2318-2-ND	4,000	16.00/M	C1608C0G2E471J
	C0G (NP0)	250	560pF	±5%	0.8	445-4131-1-ND	1.04	6.15	17.74	445-4131-2-ND	4,000	17.00/M	C1608C0G2E561J
	C0G (NP0)	250	680pF	±5%	0.8	445-2319-1-ND	1.04	6.15	17.74	445-2319-2-ND	4,000	17.00/M	C1608C0G2E681J
	C0G (NP0)	100	100pF	±1%	0.8	445-5378-1-ND ***NEW!***	5.28	31.20	90.00	445-5378-2-ND ***NEW!***	4,000	86.00/M	C1608C0G2A101F
	C0G (NP0)	100	100pF	±2%	0.8	445-5380-1-ND ***NEW!***	3.63	21.45	61.88	445-5380-2-ND ***NEW!***	4,000	59.00/M	C1608C0G2A101G
	C0G (NP0)	100	100pF	±5%	0.8	445-2306-1-ND	.46	2.73	7.88	445-2306-2-ND	4,000	8.00/M	C1608C0G2A101J
	C0G (NP0)	100	120pF	±5%	0.8	445-4121-1-ND	.58	3.41	9.84	445-4121-2-ND	4,000	9.00/M	C1608C0G2A121J
	C0G (NP0)	100	150pF	±5%	0.8	445-2307-1-ND	.58	3.41	9.84	445-2307-2-ND	4,000	9.00/M	C1608C0G2A151J
	C0G (NP0)	100	180pF	±5%	0.8	445-4122-1-ND	.66	3.90	11.25	445-4122-2-ND	4,000	11.00/M	C1608C0G2A181J
	C0G (NP0)	100	220pF	±5%	0.8	445-2308-1-ND	.66	3.90	11.25	445-2308-2-ND	4,000	11.00/M	C1608C0G2A221J
	C0G (NP0)	100	270pF	±5%	0.8	445-4123-1-ND	.74	4.39	12.66	445-4123-2-ND	4,000	12.00/M	C1608C0G2A271J
	C0G (NP0)	100	330pF	±5%	0.8	445-2309-1-ND	.74	4.39	12.66	445-2309-2-ND	4,000	12.00/M	C1608C0G2A331J
	C0G (NP0)	100	390pF	±5%	0.8	445-4124-1-ND	.80	4.73	13.65	445-4124-2-ND	4,000	13.00/M	C1608C0G2A391J
	C0G (NP0)	100	470pF	±5%	0.8	445-2310-1-ND	.80	4.73	13.65	445-2310-2-ND	4,000	13.00/M	C1608C0G2A471J
	C0G (NP0)	100	560pF	±5%	0.8	445-4125-1-ND	.88	5.20	15.00	445-4125-2-ND	4,000	14.00/M	C1608C0G2A561J
	C0G (NP0)	100	680pF	±5%	0.8	445-2311-1-ND	.88	5.20	15.00	445-2311-2-ND	4,000	14.00/M	C1608C0G2A681J
	C0G (NP0)	100	820pF	±5%	0.8	445-4126-1-ND	.94	5.57	16.07	445-4126-2-ND	4,000	15.00/M	C1608C0G2A821J
	C0G (NP0)	100	1000pF	±1%	0.8	445-5379-1-ND ***NEW!***	22.00	130.00	375.00	445-5379-2-ND ***NEW!***	4,000	360.00/M	C1608C0G2A102F
	C0G (NP0)	100	1000pF	±2%	0.8	445-5381-1-ND ***NEW!***	19.80	117.00	337.50	445-5381-2-ND ***NEW!***	4,000	324.00/M	C1608C0G2A102G
	C0G (NP0)	100	1000pF	±5%	0.8	445-2312-1-ND	.94	5.57	16.07	445-2312-2-ND	4,000	15.00/M	C1608C0G2A102J
	C0G (NP0)	100	1200pF	±5%	0.8	445-2313-1-ND	1.07	6.34	18.28	445-2313-2-ND	4,000	18.00/M	C1608C0G2A122J
	C0G (NP0)	50	0.5pF	±0.1pF	0.8	445-5005-1-ND	.44	2.60	7.50	445-5005-2-ND	4,000	7.20/M	C1608C0G1H0R5B
	C0G (NP0)	50	0.5pF	±0.25pF	0.8	445-5006-1-ND	.32	1.89	5.44	445-5006-2-ND	4,000	5.22/M	C1608C0G1H0R5C
	C0G (NP0)	50	0.75pF	±0.25pF	0.8	445-5007-1-ND	.36	2.15	6.19	445-5007-2-ND	4,000	5.94/M	C1608C0G1HR75C
	C0G (NP0)	50	1.0pF	±0.1pF	0.8	445-5008-1-ND	.44	2.60	7.50	445-5008-2-ND	4,000	7.20/M	C1608C0G1H010B
	C0G (NP0)	50	1.0pF	±0.25pF	0.8	445-5009-1-ND	.25	1.50	4.31	445-5009-2-ND	4,000	4.14/M	C1608C0G1H010C
	C0G (NP0)	50	1.2pF	±0.1pF	0.8	445-5010-1-ND	.44	2.60	7.50	445-5010-2-ND	4,000	7.20/M	C1608C0G1H1R2B
	C0G (NP0)	50	1.2pF	±0.25pF	0.8	445-5011-1-ND	.33	1.95	5.63	445-5011-2-ND	4,000	5.40/M	C1608C0G1H1R2C
	C0G (NP0)	50	1.5pF	±0.1pF	0.8	445-5012-1-ND	.44	2.60	7.50	445-5012-2-ND	4,000	7.20/M	C1608C0G1H1R5B
	C0G (NP0)	50	1.5pF	±0.25pF	0.8	445-5013-1-ND	.25	1.50	4.31	445-5013-2-ND	4,000	4.14/M	C1608C0G1H1R5C
	C0G (NP0)	50	1.8pF	±0.1pF	0.8	445-5014-1-ND	.44	2.60	7.50	445-5014-2-ND	4,000	7.20/M	C1608C0G1H1R8B
	C0G (NP0)	50	1.8pF	±0.25pF	0.8	445-5015-1-ND	.33	1.95	5.63	445-5015-2-ND	4,000	5.40/M	C1608C0G1H1R8C
	C0G (NP0)	50	2.0pF	±0.1pF	0.8	445-5016-1-ND	.44	2.60	7.50	445-5016-2-ND	4,000	7.20/M	C1608C0G1H020B
	C0G (NP0)	50	2.0pF	±0.25pF	0.8	445-5017-1-ND	.25	1.50	4.31	445-5017-2-ND	4,000	4.14/M	C1608C0G1H020C
	C0G (NP0)	50	2.2pF	±0.1pF	0.8	445-5018-1-ND	.44	2.60	7.50	445-5018-2-ND	4,000	7.20/M	C1608C0G1H2R2B
	C0G (NP0)	50	2.2pF	±0.25pF	0.8	445-5019-1-ND	.33	1.95	5.63	445-5019-2-ND	4,000	5.40/M	C1608C0G1H2R2C
	C0G (NP0)	50	2.7pF	±0.1pF	0.8	445-5020-1-ND	.44	2.60	7.50	445-5020-2-ND	4,000	7.20/M	C1608C0G1H2R7B
	C0G (NP0)	50	2.7pF	±0.25pF	0.8	445-5021-1-ND	.33	1.95	5.63	445-5021-2-ND	4,000	5.40/M	C1608C0G1H2R7C
	C0G (NP0)	50	3.0pF	±0.1pF	0.8	445-5022-1-ND	.44	2.60	7.50	445-5022-2-ND	4,000	7.20/M	C1608C0G1H030B
	C0G (NP0)	50	3.0pF	±0.25pF	0.8	445-5023-1-ND	.25	1.50	4.31	445-5023-2-ND	4,000	4.14/M	C1608C0G1H030C
	C0G (NP0)	50	3.3pF	±0.1pF	0.8	445-5024-1-ND	.44	2.60	7.50	445-5024-2-ND	4,000	7.20/M	C1608C0G1H3R3B
	C0G (NP0)	50	3.3pF	±0.25pF	0.8	445-5025-1-ND	.33	1.95	5.63	445-5025-2-ND	4,000	5.40/M	C1608C0G1H3R3C
	C0G (NP0)	50	3.9pF	±0.1pF	0.8	445-5026-1-ND	.44	2.60	7.50	445-5026-2-ND	4,000	7.20/M	C1608C0G1H3R9B
	C0G (NP0)	50	3.9pF	±0.25pF	0.8	445-5027-1-ND	.33	1.95	5.63	445-5027-2-ND	4,000	5.40/M	C1608C0G1H3R9C
	C0G (NP0)	50	4.0pF	±0.1pF	0.8	445-5028-1-ND	.44	2.60	7.50	445-5028-2-ND	4,000	7.20/M	C1608C0G1H040B
	C0G (NP0)	50	4.0pF	±0.25pF	0.8	445-5029-1-ND	.25	1.50	4.31	445-5029-2-ND	4,000	4.14/M	C1608C0G1H040C
	C0G (NP0)	50	4.7pF	±0.1pF	0.8	445-5030-1-ND	.44	2.60	7.50	445-5030-2-ND	4,000	7.20/M	C1608C0G1H4R7B
	C0G (NP0)	50	4.7pF	±0.25pF	0.8	445-5031-1-ND	.33	1.95	5.63	445-5031-2-ND	4,000	5.40/M	C1608C0G1H4R7C
	C0G (NP0)	50	5.0pF	±0.1pF	0.8	445-5032-1-ND	.44	2.60	7.50	445-5032-2-ND	4,000	7.20/M	C1608C0G1H050B
	C0G (NP0)	50	5.0pF	±0.25pF	0.8	445-5033-1-ND	.33	1.95	5.63	445-5033-2-ND	4,000	5.40/M	C1608C0G1H050C
	C0G (NP0)	50	5.6pF	±0.25pF	0.8	445-5034-1-ND	.36	2.15	6.19	445-5034-2-ND	4,000	5.94/M	C1608C0G1H5R6C
	C0G (NP0)	50	5.6pF	±0.5pF	0.8	445-5035-1-ND	.33	1.95	5.63	445-5035-2-ND	4,000	5.40/M	C1608C0G1H5R6D
	C0G (NP0)	50	6.0pF	±0.25pF	0.8	445-5036-1-ND	.36	2.15	6.19	445-5036-2-ND	4,000	5.94/M	C1608C0G1H060C
	C0G (NP0)	50	6.0pF	±0.5pF	0.8	445-5037-1-ND	.25	1.50	4.31	445-5037-2-ND	4,000	4.14/M	C1608C0G1H060D
	C0G (NP0)	50	6.8pF	±0.25pF	0.8	445-5038-1-ND	.36	2.15	6.19	445-5038-2-ND	4,000	5.94/M	C1608C0G1H6R8C
	C0G (NP0)	50	6.8pF	±0.5pF	0.8	445-5039-1-ND	.33	1.95	5.63	445-5039-2-ND	4,000	5.40/M	C1608C0G1H6R8D
	C0G (NP0)	50	7.0pF	±0.25pF	0.8	445-5040-1-ND	.36	2.15	6.19	445-5040-2-ND	4,000	5.94/M	C1608C0G1H070C
	C0G (NP0)	50	7.0pF	±0.5pF	0.8	445-5041-1-ND	.25	1.50	4.31	445-5041-2-ND	4,000	4.14/M	C1608C0G1H070D
	C0G (NP0)	50	8.0pF	±0.25pF	0.8	445-5042-1-ND	.36	2.15	6.19	445-5042-2-ND	4,000	5.94/M	C1608C0G1H080C
	C0G (NP0)	50	8.0pF	±0.5pF	0.8	445-5043-1-ND	.25	1.50	4.31	445-5043-2-ND	4,000	4.14/M	C1608C0G1H080D
	C0G (NP0)	50	8.2pF	±0.25pF	0.8	445-5044-1-ND	.36	2.15	6.19	445-5044-2-ND	4,000	5.94/M	C1608C0G1H8R2C
	C0G (NP0)	50	8.2pF	±0.5pF	0.8	445-5045-1-ND	.33	1.95	5.63	445-5045-2-ND	4,000	5.40/M	C1608C0G1H8R2D
	C0G (NP0)	50	9.0pF	±0.25pF	0.8	445-5046-1-ND	.36	2.15	6.19	445-5046-2-ND	4,000	5.94/M	C1608C0G1H090C
	C0G (NP0)	50	9.0pF	±0.5pF	0.8	445-5047-1-ND	.25	1.50	4.31	445-5047-2-ND	4,000	4.14/M	C1608C0G1H090D
	C0G (NP0)	50	10pF	±0.25pF	0.8	445-5048-1-ND	.36	2.15	6.19	445-5048-2-ND	4,000	5.94/M	C1608C0G1H100C

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	50	10pF	±0.5pF	0.8	445-1269-1-ND	.24	1.43	4.13	445-1269-2-ND	4,000	3.96/M	C1608C0G1H100D
	C0G (NP0)	50	11pF	±5%	0.8	445-5049-1-ND	.36	2.15	6.19	445-5049-2-ND	4,000	5.94/M	C1608C0G1H110J
	C0G (NP0)	50	12pF	±5%	0.8	445-1270-1-ND	.25	1.50	4.31	445-1270-2-ND	4,000	4.14/M	C1608C0G1H120J
	C0G (NP0)	50	13pF	±5%	0.8	445-5050-1-ND	.36	2.15	6.19	445-5050-2-ND	4,000	5.94/M	C1608C0G1H130J
	C0G (NP0)	50	15pF	±5%	0.8	445-1271-1-ND	.24	1.43	4.13	445-1271-2-ND	4,000	3.96/M	C1608C0G1H150J
	C0G (NP0)	50	16pF	±5%	0.8	445-5051-1-ND	.36	2.15	6.19	445-5051-2-ND	4,000	5.94/M	C1608C0G1H160J
	C0G (NP0)	50	18pF	±5%	0.8	445-1272-1-ND	.24	1.43	4.13	445-1272-2-ND	4,000	3.96/M	C1608C0G1H180J
	C0G (NP0)	50	20pF	±5%	0.8	445-5052-1-ND	.36	2.15	6.19	445-5052-2-ND	4,000	5.94/M	C1608C0G1H200J
	C0G (NP0)	50	22pF	±1%	0.8	445-5366-1-ND ***NEW!***	3.85	22.75	65.63	445-5366-2-ND ***NEW!***	4,000	63.00/M	C1608C0G1H220F
	C0G (NP0)	50	22pF	±2%	0.8	445-5372-1-ND ***NEW!***	3.30	19.50	56.25	445-5372-2-ND ***NEW!***	4,000	54.00/M	C1608C0G1H220G
	C0G (NP0)	50	22pF	±5%	0.8	445-1273-1-ND	.28	1.63	4.69	445-1273-2-ND	4,000	4.50/M	C1608C0G1H220J
	C0G (NP0)	50	24pF	±5%	0.8	445-5053-1-ND	.36	2.15	6.19	445-5053-2-ND	4,000	5.94/M	C1608C0G1H240J
	C0G (NP0)	50	27pF	±5%	0.8	445-1274-1-ND	.24	1.43	4.13	445-1274-2-ND	4,000	3.96/M	C1608C0G1H270J
	C0G (NP0)	50	30pF	±5%	0.8	445-5054-1-ND	.36	2.15	6.19	445-5054-2-ND	4,000	5.94/M	C1608C0G1H300J
	C0G (NP0)	50	33pF	±5%	0.8	445-1275-1-ND	.28	1.63	4.69	445-1275-2-ND	4,000	4.50/M	C1608C0G1H330J
	C0G (NP0)	50	36pF	±5%	0.8	445-5055-1-ND	.36	2.15	6.19	445-5055-2-ND	4,000	5.94/M	C1608C0G1H360J
	C0G (NP0)	50	39pF	±5%	0.8	445-1276-1-ND	.25	1.50	4.31	445-1276-2-ND	4,000	4.14/M	C1608C0G1H390J
	C0G (NP0)	50	43pF	±5%	0.8	445-5056-1-ND	.36	2.15	6.19	445-5056-2-ND	4,000	5.94/M	C1608C0G1H430J
	C0G (NP0)	50	47pF	±1%	0.8	445-5367-1-ND ***NEW!***	3.85	22.75	65.63	445-5367-2-ND ***NEW!***	4,000	63.00/M	C1608C0G1H470F
	C0G (NP0)	50	47pF	±2%	0.8	445-5373-1-ND ***NEW!***	3.30	19.50	56.25	445-5373-2-ND ***NEW!***	4,000	54.00/M	C1608C0G1H470G
	C0G (NP0)	50	47pF	±5%	0.8	445-1277-1-ND	.23	1.37	3.94	445-1277-2-ND	4,000	3.78/M	C1608C0G1H470J
	C0G (NP0)	50	51pF	±5%	0.8	445-5057-1-ND	.36	2.15	6.19	445-5057-2-ND	4,000	5.94/M	C1608C0G1H510J
	C0G (NP0)	50	56pF	±5%	0.8	445-1278-1-ND	.23	1.37	3.94	445-1278-2-ND	4,000	3.78/M	C1608C0G1H560J
	C0G (NP0)	50	62pF	±5%	0.8	445-5058-1-ND	.36	2.15	6.19	445-5058-2-ND	4,000	5.94/M	C1608C0G1H620J
	C0G (NP0)	50	68pF	±5%	0.8	445-1279-1-ND	.24	1.43	4.13	445-1279-2-ND	4,000	3.96/M	C1608C0G1H680J
	C0G (NP0)	50	75pF	±5%	0.8	445-5059-1-ND	.36	2.15	6.19	445-5059-2-ND	4,000	5.94/M	C1608C0G1H750J
	C0G (NP0)	50	82pF	±5%	0.8	445-1280-1-ND	.25	1.50	4.31	445-1280-2-ND	4,000	4.14/M	C1608C0G1H820J
	C0G (NP0)	50	91pF	±5%	0.8	445-5060-1-ND	.36	2.15	6.19	445-5060-2-ND	4,000	5.94/M	C1608C0G1H910J
	C0G (NP0)	50	100pF	±1%	0.8	445-5368-1-ND ***NEW!***	3.85	22.75	65.63	445-5368-2-ND ***NEW!***	4,000	63.00/M	C1608C0G1H101F
	C0G (NP0)	50	100pF	±2%	0.8	445-5374-1-ND ***NEW!***	3.30	19.50	56.25	445-5374-2-ND ***NEW!***	4,000	54.00/M	C1608C0G1H101G
	C0G (NP0)	50	100pF	±5%	0.8	445-1281-1-ND	.22	1.30	3.75	445-1281-2-ND	4,000	3.60/M	C1608C0G1H101J
	C0G (NP0)	50	110pF	±5%	0.8	445-5061-1-ND	.77	4.55	13.13	445-5061-2-ND	4,000	12.60/M	C1608C0G1H111J
	C0G (NP0)	50	120pF	±5%	0.8	445-1282-1-ND	.39	2.28	6.56	445-1282-2-ND	4,000	6.30/M	C1608C0G1H121J
	C0G (NP0)	50	130pF	±5%	0.8	445-5062-1-ND	.77	4.55	13.13	445-5062-2-ND	4,000	12.60/M	C1608C0G1H131J
	C0G (NP0)	50	150pF	±5%	0.8	445-1283-1-ND	.33	1.95	5.63	445-1283-2-ND	4,000	5.40/M	C1608C0G1H151J
	C0G (NP0)	50	160pF	±5%	0.8	445-5063-1-ND	.77	4.55	13.13	445-5063-2-ND	4,000	12.60/M	C1608C0G1H161J
	C0G (NP0)	50	180pF	±5%	0.8	445-1284-1-ND	.40	2.34	6.75	445-1284-2-ND	4,000	6.48/M	C1608C0G1H181J
	C0G (NP0)	50	200pF	±5%	0.8	445-5064-1-ND	.77	4.55	13.13	445-5064-2-ND	4,000	12.60/M	C1608C0G1H201J
	C0G (NP0)	50	220pF	±1%	0.8	445-5369-1-ND ***NEW!***	5.28	31.20	90.00	445-5369-2-ND ***NEW!***	4,000	86.00/M	C1608C0G1H221F
	C0G (NP0)	50	220pF	±2%	0.8	445-5375-1-ND ***NEW!***	4.73	27.95	80.63	445-5375-2-ND ***NEW!***	4,000	77.00/M	C1608C0G1H221G
	C0G (NP0)	50	220pF	±5%	0.8	445-1285-1-ND	.33	1.95	5.63	445-1285-2-ND	4,000	5.40/M	C1608C0G1H221J
	C0G (NP0)	50	240pF	±5%	0.8	445-5065-1-ND	.77	4.55	13.13	445-5065-2-ND	4,000	12.60/M	C1608C0G1H241J
	C0G (NP0)	50	270pF	±5%	0.8	445-1286-1-ND	.43	2.54	7.31	445-1286-2-ND	4,000	7.02/M	C1608C0G1H271J
	C0G (NP0)	50	300pF	±5%	0.8	445-5066-1-ND	.77	4.55	13.13	445-5066-2-ND	4,000	12.60/M	C1608C0G1H301J
	C0G (NP0)	50	330pF	±5%	0.8	445-1287-1-ND	.41	2.41	6.94	445-1287-2-ND	4,000	6.66/M	C1608C0G1H331J
	C0G (NP0)	50	360pF	±5%	0.8	445-5067-1-ND	.77	4.55	13.13	445-5067-2-ND	4,000	12.60/M	C1608C0G1H361J
	C0G (NP0)	50	390pF	±5%	0.8	445-1288-1-ND	.51	2.99	8.63	445-1288-2-ND	4,000	8.28/M	C1608C0G1H391J
	C0G (NP0)	50	430pF	±5%	0.8	445-5068-1-ND	.77	4.55	13.13	445-5068-2-ND	4,000	12.60/M	C1608C0G1H431J
	C0G (NP0)	50	470pF	±1%	0.8	445-5370-1-ND ***NEW!***	8.80	52.00	150.00	445-5370-2-ND ***NEW!***	4,000	144.00/M	C1608C0G1H471F
	C0G (NP0)	50	470pF	±2%	0.8	445-5376-1-ND ***NEW!***	4.84	28.60	82.50	445-5376-2-ND ***NEW!***	4,000	79.00/M	C1608C0G1H471G
	C0G (NP0)	50	470pF	±5%	0.8	445-1289-1-ND	.48	2.86	8.25	445-1289-2-ND	4,000	7.92/M	C1608C0G1H471J
	C0G (NP0)	50	510pF	±5%	0.8	445-5069-1-ND	.88	5.20	15.00	445-5069-2-ND	4,000	14.40/M	C1608C0G1H511J
	C0G (NP0)	50	560pF	±5%	0.8	445-1290-1-ND	.58	3.45	9.94	445-1290-2-ND	4,000	9.54/M	C1608C0G1H561J
	C0G (NP0)	50	620pF	±5%	0.8	445-5070-1-ND	.88	5.20	15.00	445-5070-2-ND	4,000	14.40/M	C1608C0G1H621J
	C0G (NP0)	50	680pF	±5%	0.8	445-1291-1-ND	.57	3.38	9.75	445-1291-2-ND	4,000	9.36/M	C1608C0G1H681J
	C0G (NP0)	50	750pF	±5%	0.8	445-5071-1-ND	.99	5.85	16.88	445-5071-2-ND	4,000	16.20/M	C1608C0G1H751J
	C0G (NP0)	50	820pF	±5%	0.8	445-1292-1-ND	.65	3.84	11.06	445-1292-2-ND	4,000	10.62/M	C1608C0G1H821J
	C0G (NP0)	50	910pF	±5%	0.8	445-5072-1-ND	.99	5.85	16.88	445-5072-2-ND	4,000	16.20/M	C1608C0G1H911J
	C0G (NP0)	50	1000pF	±1%	0.8	445-5371-1-ND ***NEW!***	17.60	104.00	300.00	445-5371-2-ND ***NEW!***	4,000	288.00/M	C1608C0G1H102F
	C0G (NP0)	50	1000pF	±2%	0.8	445-5377-1-ND ***NEW!***	15.40	91.00	262.50	445-5377-2-ND ***NEW!***	4,000	252.00/M	C1608C0G1H102G
	C0G (NP0)	50	1000pF	±5%	0.8	445-1293-1-ND	.55	3.25	9.38	445-1293-2-ND	4,000	9.00/M	C1608C0G1H102J
	C0G (NP0)	50	1200pF	±5%	0.8	445-1294-1-ND	1.32	7.80	22.50	445-1294-2-ND	4,000	21.60/M	C1608C0G1H122J
	C0G (NP0)	50	1500pF	±5%	0.8	445-1295-1-ND	1.10	6.50	18.75	445-1295-2-ND	4,000	18.00/M	C1608C0G1H152J
	C0G (NP0)	50	1800pF	±5%	0.8	445-1296-1-ND	1.10	6.50	18.75	445-1296-2-ND	4,000	18.00/M	C1608C0G1H182J
	C0G (NP0)	50	2200pF	±5%	0.8	445-1297-1-ND	1.10	6.50	18.75	445-1297-2-ND	4,000	18.00/M	C1608C0G1H222J
	C0G (NP0)	50	2700pF	±5%	0.8	445-2669-1-ND	1.43	8.45	24.38	445-2669-2-ND	4,000	23.00/M	C1608C0G1H272J
	C0G (NP0)	50	3300pF	±5%	0.8	445-1599-1-ND	1.98	11.70	33.75	445-1599-2-ND	4,000	32.40/M	C1608C0G1H332J
	C0G (NP0)	25	3900pF	±5%	0.8	445-2665-1-ND	2.75	16.25	46.88	445-2665-2-ND	4,000	45.00/M	C1608C0G1E392J
	C0G (NP0)	25	4700pF	±5%	0.8	445-2712-1-ND	2.75	16.25	46.88	445-2712-2-ND	4,000	45.00/M	C1608C0G1E472J
	C0G (NP0)	25	5600pF	±5%	0.8	445-2666-1-ND	3.30	19.50	56.25	445-2666-2-ND	4,000	54.00/M	C1608C0G1E562J
	C0G (NP0)	25	6800pF	±5%	0.8	445-2667-1-ND	3.30	19.50	56.25	445-2667-2-ND	4,000	54.00/M	C1608C0G1E682J
	C0G (NP0)	25	8200pF	±5%	0.8	445-2668-1-ND	3.85	22.75	65.63	445-2668-2-ND	4,000	63.00/M	C1608C0G1E822J
	C0G (NP0)	25	10000pF	±5%	0.8	445-2664-1-ND	3.85	22.75	65.63	445-2664-2-ND	4,000	63.00/M	C1608C0G1E103J
	X7R	100	1000pF	±10%	0.8	445-1298-1-ND	.44	2.60	7.50	445-1298-2-ND	4,000	7.20/M	C1608X7R2A102K
	X7R	100	1000pF	±20%	0.8	445-1299-1-ND	.44	2.60	7.50	445-1299-2-ND	4,000	7.20/M	C1608X7R2A102M
	X7R	100	1500pF	±10%	0.8	445-4420-1-ND	.44	2.60	7.50	445-4420-2-ND	4,000	7.20/M	C1608X7R2A152K
	X7R	100	1500pF	±20%	0.8	445-4421-1-ND	.44	2.60	7.50	445-4421-2-ND	4,000	7.20/M	C1608X7R2A152M
	X7R	100	2200pF	±10%	0.8	445-1300-1-ND	.44	2.60	7.50	445-1300-2-ND	4,000	7.20/M	C1608X7R2A222K
	X7R	100	2200pF	±20%	0.8	445-1301-1-ND	.44	2.60	7.50	445-1301-2-ND	4,000	7.20/M	C1608X7R2A222M
	X7R	100	3300pF	±10%	0.8	445-4422-1-ND	.44	2.60	7.50	445-4422-2-ND	4,000	7.20/M	C1608X7R2A332K
	X7R	100	3300pF	±20%	0.8	445-4423-1-ND	.44	2.60	7.50	445-4423-2-ND	4,000	7.20/M	C1608X7R2A332M
	X7R	100	4700pF	±10%	0.8	445-1302-1-ND	.55	3.25	9.38	445-1302-2-ND	4,000	9.00/M	C1608X7R2A472K
	X7R	100	4700pF	±20%	0.8	445-1303-1-ND	.55	3.25	9.38	445-1303-2-ND	4,000	9.00/M	C1608X7R2A472M
	X7R	100	6800pF	±10%	0.8	445-4424-1-ND	.55	3.25	9.38	445-4424-2-ND	4,000	9.00/M	C1608X7R2A682K
	X7R	100	6800pF	±20%	0.8	445-4425-1-ND	.55	3.25	9.38	445-4425-2-ND	4,000	9.00/M	C1608X7R2A682M
	X7R	100	10000pF	±10%	0.8	445-1304-1-ND	.55	3.25	9.38	445-1304-2-ND	4,000	9.00/M	C1608X7R2A103K
	X7R	100	10000pF	±20%	0.8	445-1305-1-ND	.55	3.25	9.38	445-1305-2-ND	4,000	9.00/M	C1608X7R2A103M
	X7R	100	15000pF	±10%	0.8	445-4426-1-ND	.77	4.55	13.13	445-4426-2-ND	4,000	12.60/M	C1608X7R2A153K
	X7R	100	15000pF	±20%	0.8	445-4427-1-ND	.77	4.55	13.13	445-4427-2-ND	4,000	12.60/M	C1608X7R2A153M
	X7R	100	22000pF	±10%	0.8	445-2275-1-ND	.66	3.90	11.25	445-2275-2-ND	4,000	11.00/M	C1608X7R2A223K
	X7R	100	22000pF	±20%	0.8	445-4428-1-ND	.66	3.90	11.25	445-4428-2-ND	4,000	10.80/M	C1608X7R2A223M
	X7R	50	220pF	±10%	0.8	445-1306-1-ND	.29	1.69	4.88	445-1306-2-ND	4,000	4.68/M	C1608X7R1H221K
	X7R	50	220pF	±20%	0.8	445-5073-1-ND	.29	1.69	4.88	445-5073-2-ND	4,000	4.68/M	C1608X7R1H221M
	X7R	50	330pF	±10%	0.8	445-5074-1-ND	.29	1.69	4.88	445-5074-2-ND	4,000	4.68/M	C1608X7R1H331K
	X7R	50	330pF	±20%	0.8	445-5075-1-ND	.29	1.69	4.88	445-5075-2-ND	4,000	4.68/M	C1608X7R1H331M
	X7R	50	470pF	±10%	0.8	445-1307-1-ND	.29	1.69	4.88	445-1307-2-ND	4,000	4.68/M	C1608X7R1H471K
	X7R	50	470pF	±20%	0.8	445-5076-1-ND	.29	1.69	4.88	445-5076-2-ND	4,000	4.68/M	C1608X7R1H471M
	X7R	50	680pF	±10%	0.8	445-5077-1-ND	.29	1.69	4.88	445-5077-2-ND	4,000	4.68/M	C1608X7R1H681K
	X7R	50	680pF	±20%	0.8	445-5078-1-ND	.29	1.69	4.88	445-5078-2-ND	4,000	4.68/M	C1608X7R1H681M
	X7R	50	1000pF	±5%	0.8	445-5079-1-ND	.44	2.60	7.50	445-5079-2-ND	4,000	7.20/M	C1608X7R1H102J
	X7R	50	1000pF	±10%	0.8	445-1308-1-ND	.29	1.69	4.88	445-1308-2-ND	4,000	4.68/M	C1608X7R1H102K
	X7R	50	1000pF	±20%	0.8	445-5080-1-ND	.29	1.69	4.88	445-5080-2-ND	4,000	4.68/M	C1608X7R1H102M
	X7R	50	1500pF	±10%	0.8	445-5081-1-ND	.22	1.30	3.75	445-5081-2-ND	4,000	3.60/M	C1608X7R1H152K
	X7R	50	1500pF	±20%	0.8	445-5082-1-ND	.29	1.69	4.88	445-5082-2-ND	4,000	4.68/M	C1608X7R1H152M
	X7R	50	2200pF	±10%	0.8	445-1309-1-ND	.24	1.43	4.13	445-1309-2-ND	4,000	3.96/M	C1608X7R1H222K
	X7R	50	2200pF	±20%	0.8	445-5083-1-ND	.29	1.69	4.88	445-5083-2-ND	4,000	4.68/M	C1608X7R1H222M

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	50	3300pF	±10%	0.8	445-5084-1-ND	.24	1.43	4.13	445-5084-2-ND	4,000	3.96/M	C1608X7R1H332K
	X7R	50	3300pF	±20%	0.8	445-5085-1-ND	.29	1.69	4.88	445-5085-2-ND	4,000	4.68/M	C1608X7R1H332M
	X7R	50	4700pF	±10%	0.8	445-1310-1-ND	.24	1.43	4.13	445-1310-2-ND	4,000	3.96/M	C1608X7R1H472K
	X7R	50	4700pF	±20%	0.8	445-5086-1-ND	.29	1.69	4.88	445-5086-2-ND	4,000	4.68/M	C1608X7R1H472M
	X7R	50	6800pF	±10%	0.8	445-5087-1-ND	.26	1.56	4.50	445-5087-2-ND	4,000	4.32/M	C1608X7R1H682K
	X7R	50	6800pF	±20%	0.8	445-5088-1-ND	.29	1.69	4.88	445-5088-2-ND	4,000	4.68/M	C1608X7R1H682M
	X7R	50	10000pF	±5%	0.8	445-5089-1-ND	.44	2.60	7.50	445-5089-2-ND	4,000	7.20/M	C1608X7R1H103J
	X7R	50	10000pF	±10%	0.8	445-1311-1-ND	.21	1.24	3.56	445-1311-2-ND	4,000	3.42/M	C1608X7R1H103K
	X7R	50	10000pF	±20%	0.8	445-5090-1-ND	.22	1.30	3.75	445-5090-2-ND	4,000	3.60/M	C1608X7R1H103M
	X7R	50	15000pF	±20%	0.8	445-5091-1-ND	.36	2.15	6.19	445-5091-2-ND	4,000	5.94/M	C1608X7R1H153M
	X7R	50	15000pF	±10%	0.8	445-5189-1-ND	.36	2.15	6.19	445-5189-2-ND	4,000	5.94/M	C1608X7R1H153K
	X7R	50	22000pF	±10%	0.8	445-1312-1-ND	.36	2.15	6.19	445-1312-2-ND	4,000	5.94/M	C1608X7R1H223K
	X7R	50	22000pF	±20%	0.8	445-5092-1-ND	.36	2.15	6.19	445-5092-2-ND	4,000	5.94/M	C1608X7R1H223M
	X7R	50	33000pF	±10%	0.8	445-5093-1-ND	.44	2.60	7.50	445-5093-2-ND	4,000	7.20/M	C1608X7R1H333K
	X7R	50	33000pF	±20%	0.8	445-5094-1-ND	.44	2.60	7.50	445-5094-2-ND	4,000	7.20/M	C1608X7R1H333M
	X7R	50	47000pF	±10%	0.8	445-1313-1-ND	.33	1.95	5.63	445-1313-2-ND	4,000	5.40/M	C1608X7R1H473K
	X7R	50	47000pF	±20%	0.8	445-5095-1-ND	.42	2.47	7.13	445-5095-2-ND	4,000	6.84/M	C1608X7R1H473M
	X7R	50	68000pF	±10%	0.8	445-5096-1-ND	.61	3.58	10.31	445-5096-2-ND	4,000	9.90/M	C1608X7R1H683K
	X7R	50	68000pF	±20%	0.8	445-5097-1-ND	.61	3.58	10.31	445-5097-2-ND	4,000	9.90/M	C1608X7R1H683M
	X7R	50	0.1µF	±10%	0.8	445-1314-1-ND	.40	2.34	6.75	445-1314-2-ND	4,000	6.48/M	C1608X7R1H104K
	X7R	50	0.1µF	±20%	0.8	445-5098-1-ND	.44	2.60	7.50	445-5098-2-ND	4,000	7.20/M	C1608X7R1H104M
	X7R	25	10000pF	±5%	0.8	445-5099-1-ND	.44	2.60	7.50	445-5099-2-ND	4,000	7.20/M	C1608X7R1E103J
	X7R	25	10000pF	±10%	0.8	445-5100-1-ND	.21	1.24	3.56	445-5100-2-ND	4,000	3.42/M	C1608X7R1E103K
	X7R	25	10000pF	±20%	0.8	445-5101-1-ND	.22	1.30	3.75	445-5101-2-ND	4,000	3.60/M	C1608X7R1E103M
	X7R	25	15000pF	±10%	0.8	445-5102-1-ND	.39	2.28	6.56	445-5102-2-ND	4,000	6.30/M	C1608X7R1E153K
	X7R	25	15000pF	±20%	0.8	445-5103-1-ND	.39	2.28	6.56	445-5103-2-ND	4,000	6.30/M	C1608X7R1E153M
	X7R	25	22000pF	±10%	0.8	445-5104-1-ND	.30	1.76	5.06	445-5104-2-ND	4,000	4.86/M	C1608X7R1E223K
	X7R	25	22000pF	±20%	0.8	445-5105-1-ND	.36	2.15	6.19	445-5105-2-ND	4,000	5.94/M	C1608X7R1E223M
	X7R	25	33000pF	±10%	0.8	445-5106-1-ND	.37	2.21	6.38	445-5106-2-ND	4,000	6.12/M	C1608X7R1E333K
	X7R	25	33000pF	±20%	0.8	445-5107-1-ND	.44	2.60	7.50	445-5107-2-ND	4,000	7.20/M	C1608X7R1E333M
	X7R	25	47000pF	±10%	0.8	445-1315-1-ND	.33	1.95	5.63	445-1315-2-ND	4,000	5.40/M	C1608X7R1E473K
	X7R	25	47000pF	±20%	0.8	445-5108-1-ND	.42	2.47	7.13	445-5108-2-ND	4,000	6.84/M	C1608X7R1E473M
	X7R	25	68000pF	±10%	0.8	445-5109-1-ND	.48	2.86	8.25	445-5109-2-ND	4,000	7.92/M	C1608X7R1E683K
	X7R	25	68000pF	±20%	0.8	445-5110-1-ND	.48	2.86	8.25	445-5110-2-ND	4,000	7.92/M	C1608X7R1E683M
	X7R	25	0.1µF	±10%	0.8	445-1316-1-ND	.20	1.17	3.38	445-1316-2-ND	4,000	3.24/M	C1608X7R1E104K
	X7R	25	0.1µF	±20%	0.8	445-5111-1-ND	.22	1.30	3.75	445-5111-2-ND	4,000	3.60/M	C1608X7R1E104M
	X7R	25	0.15µF	±10%	0.8	445-5190-1-ND	.55	3.25	9.38	445-5190-2-ND	4,000	9.00/M	C1608X7R1E154K
	X7R	25	0.15µF	±20%	0.8	445-5112-1-ND	.55	3.25	9.38	445-5112-2-ND	4,000	9.00/M	C1608X7R1E154M
	X7R	25	0.22µF	±10%	0.8	445-5191-1-ND	.77	4.55	13.13	445-5191-2-ND	4,000	12.60/M	C1608X7R1E224K
	X7R	25	0.22µF	±20%	0.8	445-5113-1-ND	.77	4.55	13.13	445-5113-2-ND	4,000	12.60/M	C1608X7R1E224M
	X7R	16	22000pF	±10%	0.8	445-5114-1-ND	.33	1.95	5.63	445-5114-2-ND	4,000	5.40/M	C1608X7R1C223K
	X7R	16	22000pF	±20%	0.8	445-5115-1-ND	.35	2.08	6.00	445-5115-2-ND	4,000	5.76/M	C1608X7R1C223M
	X7R	16	33000pF	±10%	0.8	445-5116-1-ND	.35	2.08	6.00	445-5116-2-ND	4,000	5.76/M	C1608X7R1C333K
	X7R	16	33000pF	±20%	0.8	445-5117-1-ND	.35	2.08	6.00	445-5117-2-ND	4,000	5.76/M	C1608X7R1C333K
	X7R	16	47000pF	±10%	0.8	445-5118-1-ND	.35	2.08	6.00	445-5118-2-ND	4,000	5.76/M	C1608X7R1C473K
	X7R	16	47000pF	±20%	0.8	445-5119-1-ND	.42	2.47	7.13	445-5119-2-ND	4,000	6.84/M	C1608X7R1C473M
	X7R	16	68000pF	±10%	0.8	445-5120-1-ND	.46	2.73	7.88	445-5120-2-ND	4,000	7.56/M	C1608X7R1C683K
	X7R	16	68000pF	±20%	0.8	445-5121-1-ND	.46	2.73	7.88	445-5121-2-ND	4,000	7.56/M	C1608X7R1C683M
	X7R	16	0.1µF	±10%	0.8	445-1317-1-ND	.22	1.30	3.75	445-1317-2-ND	4,000	3.60/M	C1608X7R1C104K
	X7R	16	0.1µF	±20%	0.8	445-5122-1-ND	.22	1.30	3.75	445-5122-2-ND	4,000	3.60/M	C1608X7R1C104M
	X7R	16	0.15µF	±10%	0.8	445-5123-1-ND	.55	3.25	9.38	445-5123-2-ND	4,000	9.00/M	C1608X7R1C154K
	X7R	16	0.15µF	±20%	0.8	445-5124-1-ND	.55	3.25	9.38	445-5124-2-ND	4,000	9.00/M	C1608X7R1C154M
	X7R	16	0.22µF	±10%	0.8	445-1318-1-ND	.61	3.58	10.31	445-1318-2-ND	4,000	9.90/M	C1608X7R1C224K
	X7R	16	0.22µF	±20%	0.8	445-5125-1-ND	.61	3.58	10.31	445-5125-2-ND	4,000	9.90/M	C1608X7R1C224M
	X7R	16	0.33µF	±10%	0.8	445-5126-1-ND	.91	5.40	15.56	445-5126-2-ND	4,000	14.94/M	C1608X7R1C334K
	X7R	16	0.33µF	±20%	0.8	445-5127-1-ND	.91	5.40	15.56	445-5127-2-ND	4,000	14.94/M	C1608X7R1C334M
	X7R	16	0.47µF	±10%	0.8	445-5192-1-ND	.72	4.23	12.19	445-5192-2-ND	4,000	11.70/M	C1608X7R1C474K
	X7R	16	0.47µF	±20%	0.8	445-5128-1-ND	.72	4.23	12.19	445-5128-2-ND	4,000	11.70/M	C1608X7R1C474M
	X7R	16	0.68µF	±10%	0.8	445-5129-1-ND	1.21	7.15	20.63	445-5129-2-ND	4,000	19.80/M	C1608X7R1C684K
	X7R	16	0.68µF	±20%	0.8	445-5130-1-ND	1.21	7.15	20.63	445-5130-2-ND	4,000	19.80/M	C1608X7R1C684M
	X7R	16	1.0µF	±10%	0.8	445-1604-1-ND	.85	5.01	14.44	445-1604-2-ND	4,000	14.00/M	C1608X7R1C105K
	X7R	16	1.0µF	±20%	0.8	445-5131-1-ND	.85	5.01	14.44	445-5131-2-ND	4,000	13.86/M	C1608X7R1C105M
	X7R	10	0.22µF	±10%	0.8	445-5132-1-ND	.55	3.25	9.38	445-5132-2-ND	4,000	9.00/M	C1608X7R1A224K
	X7R	10	0.22µF	±20%	0.8	445-5133-1-ND	.55	3.25	9.38	445-5133-2-ND	4,000	9.00/M	C1608X7R1A224M
	X7R	10	0.33µF	±10%	0.8	445-5134-1-ND	.69	4.10	11.81	445-5134-2-ND	4,000	11.34/M	C1608X7R1A334K
	X7R	10	0.33µF	±20%	0.8	445-5135-1-ND	.79	4.68	13.50	445-5135-2-ND	4,000	12.96/M	C1608X7R1A334M
	X7R	10	0.47µF	±10%	0.8	445-5136-1-ND	.72	4.23	12.19	445-5136-2-ND	4,000	11.70/M	C1608X7R1A474K
	X7R	10	0.47µF	±20%	0.8	445-5137-1-ND	.72	4.23	12.19	445-5137-2-ND	4,000	11.70/M	C1608X7R1A474M
	X7R	10	1.0µF	±10%	0.8	445-5138-1-ND	.81	4.81	13.88	445-5138-2-ND	4,000	13.32/M	C1608X7R1A105K
	X7R	10	1.0µF	±20%	0.8	445-5139-1-ND	.85	5.01	14.44	445-5139-2-ND	4,000	13.86/M	C1608X7R1A105M
	X7S	100	0.1µF	±10%	0.8	445-5201-1-ND	1.54	9.10	26.25	445-5201-2-ND	4,000	25.00/M	C1608X7S2A104K
	X7S	100	0.1µF	±20%	0.8	445-5202-1-ND	1.54	9.10	26.25	445-5202-2-ND	4,000	25.00/M	C1608X7S2A104M
	X5R	25	0.22µF	±10%	0.8	445-5140-1-ND	.77	4.55	13.13	445-5140-2-ND	4,000	12.60/M	C1608X5R1E224K
	X5R	25	0.22µF	±20%	0.8	445-5141-1-ND	.77	4.55	13.13	445-5141-2-ND	4,000	12.60/M	C1608X5R1E224M
	X5R	25	0.33µF	±10%	0.8	445-5142-1-ND	.83	4.88	14.06	445-5142-2-ND	4,000	13.50/M	C1608X5R1E334K
	X5R	25	0.33µF	±20%	0.8	445-5143-1-ND	.83	4.88	14.06	445-5143-2-ND	4,000	13.50/M	C1608X5R1E334M
	X5R	25	0.47µF	±10%	0.8	445-5144-1-ND	1.10	6.50	18.75	445-5144-2-ND	4,000	18.00/M	C1608X5R1E474K
	X5R	25	0.47µF	±20%	0.8	445-5145-1-ND	1.10	6.50	18.75	445-5145-2-ND	4,000	18.00/M	C1608X5R1E474M
	X5R	25	1.0µF	±10%	0.8	445-5146-1-ND	.88	5.20	15.00	445-5146-2-ND	4,000	14.40/M	C1608X5R1E105K
	X5R	25	1.0µF	±20%	0.8	445-5147-1-ND	.88	5.20	15.00	445-5147-2-ND	4,000	14.40/M	C1608X5R1E105M
	X5R	16	0.22µF	±10%	0.8	445-5148-1-ND	.77	4.55	13.13	445-5148-2-ND	4,000	12.60/M	C1608X5R1C224K
	X5R	16	0.22µF	±20%	0.8	445-5149-1-ND	.77	4.55	13.13	445-5149-2-ND	4,000	12.60/M	C1608X5R1C224M
	X5R	16	0.33µF	±10%	0.8	445-5150-1-ND	.91	5.40	15.56	445-5150-2-ND	4,000	14.94/M	C1608X5R1C334K
	X5R	16	0.33µF	±20%	0.8	445-5151-1-ND	.91	5.40	15.56	445-5151-2-ND	4,000	14.94/M	C1608X5R1C334M
	X5R	16	0.47µF	±10%	0.8	445-5152-1-ND	.61	3.58	10.31	445-5152-2-ND	4,000	9.90/M	C1608X5R1C474K
	X5R	16	0.47µF	±20%	0.8	445-5153-1-ND	.61	3.58	10.31	445-5153-2-ND	4,000	9.90/M	C1608X5R1C474M
	X5R	16	0.68µF	±10%	0.8	445-5154-1-ND	1.10	6.50	18.75	445-5154-2-ND	4,000	18.00/M	C1608X5R1C684K
	X5R	16	0.68µF	±20%	0.8	445-5155-1-ND	1.10	6.50	18.75	445-5155-2-ND	4,000	18.00/M	C1608X5R1C684M
	X5R	16	1.0µF	±10%	0.8	445-1416-1-ND	.66	3.90	11.25	445-1416-2-ND	4,000	10.80/M	C1608X5R1C105K
	X5R	16	1.0µF	±20%	0.8	445-5156-1-ND	.66	3.90	11.25	445-5156-2-ND	4,000	10.80/M	C1608X5R1C105M
	X5R	16	2.2µF	±10%	0.8	445-5157-1-ND	1.65	9.75	28.13	445-5157-2-ND	4,000	27.00/M	C1608X5R1C225K
	X5R	16	2.2µF	±20%	0.8	445-5158-1-ND	1.65	9.75	28.13	445-5158-2-ND	4,000	27.00/M	C1608X5R1C225M
	X5R	10	0.22µF	±10%	0.8	445-1319-1-ND	.77	4.55	13.13	445-1319-2-ND	4,000	12.60/M	C1608X5R1A224K
	X5R	10	0.22µF	±20%	0.8	445-5159-1-ND	.77	4.55	13.13	445-5159-2-ND	4,000	12.60/M	C1608X5R1A224M
	X5R	10	0.33µF	±10%	0.8	445-5160-1-ND	.79	4.68	13.50	445-5160-2-ND	4,000	12.96/M	C1608X5R1A334K
	X5R	10	0.33µF	±20%	0.8	445-5161-1-ND	.79	4.68	13.50	445-5161-2-ND	4,000	12.96/M	C1608X5R1A334M
	X5R	10	0.47µF	±10%	0.8	445-1320-1-ND	.55	3.25	9.38	445-1320-2-ND	4,000	9.00/M	C1608X5R1A474K
	X5R	10	0.47µF	±20%	0.8	445-5162-1-ND	.55	3.25	9.38	445-5162-2-ND	4,000	9.00/M	C1608X5R1A474M
	X5R	10	0.68µF	±10%	0.8	445-5163-1-ND	.88	5.20	15.00	445-5163-2-ND	4,000	14.40/M	C1608X5R1A684K
	X5R	10	0.68µF	±20%	0.8	445-5164-1-ND	.88	5.20	15.00	445-5164-2-ND	4,000	14.40/M	C1608X5R1A684M
	X5R	10	1.0µF	±10%	0.8	445-1321-1-ND	.57	3.38	9.75	445-1321-2-ND	4,000	9.36/M	C1608X5R1A105K
	X5R	10	1.0µF	±20%	0.8	445-5165-1-ND	.57	3.38	9.75	445-5165-2-ND	4,000	9.36/M	C1608X5R1A105M
	X5R	10	2.2µF	±10%	0.8	445-5166-1-ND	1.43	8.45	24.38	445-5166-2-ND	4,000	23.40/M	C1608X5R1A225K
	X5R	10	2.2µF	±20%	0.8	445-5167-1-ND	1.21	7.15	20.63	445-5167-2-ND	4,000	19.80/M	C1608X5R1A225M
	X5R	10	3.3µF	±10%	0.8	445-5168-1-ND	3.30	19.50	56.25	445-5168-2-ND	4,000	54.00/M	C1608X5R1A335K
	X5R	10	3.3µF	±20%	0.8	445-5169-1-ND	3.30	19.50	56.25	445-5169-2-ND	4,000	54.00/M	C1608X5R1A335M

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0603	X5R	10	4.7µF	±10%	0.8	445-5170-1-ND	2.64	15.60	45.00	445-5170-2-ND	4,000	43.20/M	C1608X5R1A475K
	X5R	10	4.7µF	±20%	0.8	445-5171-1-ND	2.64	15.60	45.00	445-5171-2-ND	4,000	43.20/M	C1608X5R1A475M
	X5R	6.3	1.0µF	±10%	0.8	445-1322-1-ND	.53	3.12	9.00	445-1322-2-ND	4,000	8.64/M	C1608X5R0J105K
	X5R	6.3	1.0µF	±20%	0.8	445-5172-1-ND	.53	3.12	9.00	445-5172-2-ND	4,000	8.64/M	C1608X5R0J105M
	X5R	6.3	1.5µF	±10%	0.8	445-5173-1-ND	2.75	16.25	46.88	445-5173-2-ND	4,000	45.00/M	C1608X5R0J155K
	X5R	6.3	1.5µF	±20%	0.8	445-5174-1-ND	2.75	16.25	46.88	445-5174-2-ND	4,000	45.00/M	C1608X5R0J155M
	X5R	6.3	2.2µF	±10%	0.8	445-5175-1-ND	1.21	7.15	20.63	445-5175-2-ND	4,000	19.80/M	C1608X5R0J225K
	X5R	6.3	3.3µF	±10%	0.8	445-5176-1-ND	2.75	16.25	46.88	445-5176-2-ND	4,000	45.00/M	C1608X5R0J335K
	X5R	6.3	3.3µF	±20%	0.8	445-5177-1-ND	2.75	16.25	46.88	445-5177-2-ND	4,000	45.00/M	C1608X5R0J335M
	X5R	6.3	4.7µF	±10%	0.8	445-5178-1-ND	1.32	7.80	22.50	445-5178-2-ND	4,000	21.60/M	C1608X5R0J475K
	X5R	6.3	10µF	±20%	0.8	445-4112-1-ND	3.63	21.45	61.88	445-4112-2-ND	4,000	59.00/M	C1608X5R0J106M
	X5R	6.3	2.2µF	±20%	0.8	445-1323-1-ND	1.21	7.15	20.63	445-1323-2-ND	4,000	19.80/M	C1608X5R0J225M
	X5R	6.3	4.7µF	±20%	0.8	445-1417-1-ND	1.49	8.78	25.31	445-1417-2-ND	4,000	24.30/M	C1608X5R0J475M
	X5R	4.0	10µF	±20%	0.95	445-4111-1-ND	3.63	21.45	61.88	445-4111-2-ND	4,000	59.00/M	C1608X5R0G106M
	Y5V	50	0.1µF	+80/-20%	0.8	445-1324-1-ND	.25	1.50	4.31	445-1324-2-ND	4,000	4.14/M	C1608Y5V1H104Z
	Y5V	50	0.22µF	+80/-20%	0.8	445-3455-1-ND	.66	3.90	11.25	445-3455-2-ND	4,000	11.00/M	C1608Y5V1H224Z
	Y5V	50	0.47µF	+80/-20%	0.8	445-3456-1-ND	.83	4.88	14.06	445-3456-2-ND	4,000	14.00/M	C1608Y5V1H474Z
	Y5V	25	0.1µF	+80/-20%	0.8	445-1325-1-ND	.20	1.20	3.47	445-1325-2-ND	4,000	3.33/M	C1608Y5V1E104Z
	Y5V	25	0.22µF	+80/-20%	0.8	445-3453-1-ND	.66	3.90	11.25	445-3453-2-ND	4,000	11.00/M	C1608Y5V1E224Z
	Y5V	25	0.47µF	+80/-20%	0.8	445-3454-1-ND	.46	2.73	7.88	445-3454-2-ND	4,000	8.00/M	C1608Y5V1E474Z
	Y5V	25	1.0µF	+80/-20%	0.8	445-3452-1-ND	.61	3.58	10.31	445-3452-2-ND	4,000	10.00/M	C1608Y5V1E105Z
	Y5V	16	0.1µF	+80/-20%	0.8	445-1326-1-ND	.20	1.20	3.47	445-1326-2-ND	4,000	3.33/M	C1608Y5V1C104Z
	Y5V	16	1.0µF	+80/-20%	0.8	445-1327-1-ND	.44	2.60	7.50	445-1327-2-ND	4,000	7.20/M	C1608Y5V1C105Z
	Y5V	16	2.2µF	+80/-20%	0.8	445-3451-1-ND	.88	5.20	15.00	445-3451-2-ND	4,000	14.00/M	C1608Y5V1C225Z
	Y5V	10	1.0µF	+80/-20%	0.8	445-1328-1-ND	.35	2.08	6.00	445-1328-2-ND	4,000	5.76/M	C1608Y5V1A105Z
	Y5V	10	2.2µF	+80/-20%	0.8	445-3450-1-ND	.88	5.20	15.00	445-3450-2-ND	4,000	14.00/M	C1608Y5V1A225Z
	Y5V	6.3	4.7µF	+80/-20%	0.8	445-3449-1-ND	1.21	7.15	20.63	445-3449-2-ND	4,000	20.00/M	C1608Y5V0J475Z
	Y5V	6.3	10µF	+80/-20%	0.8	445-3448-1-ND	4.40	26.00	75.00	445-3448-2-ND	4,000	72.00/M	C1608Y5V0J106Z
	X8R	100	1000pF	±10%	0.8	445-2507-1-ND	1.32	7.80	22.50	445-2507-2-ND	4,000	22.00/M	C1608X8R2A102K
	X8R	100	1500pF	±10%	0.95	445-3427-1-ND	1.32	7.80	22.50	445-3427-2-ND	4,000	22.00/M	C1608X8R2A152K
	X8R	100	2200pF	±10%	0.8	445-2508-1-ND	1.32	7.80	22.50	—	—	—	C1608X8R2A222K
	X8R	100	3300pF	±10%	0.95	445-3428-1-ND	1.32	7.80	22.50	445-3428-2-ND	4,000	22.00/M	C1608X8R2A332K
	X8R	100	4700pF	±10%	0.8	445-2509-1-ND	1.32	7.80	22.50	445-2509-2-ND	4,000	22.00/M	C1608X8R2A472K
	X8R	100	6800pF	±10%	0.95	445-3429-1-ND	1.32	7.80	22.50	445-3429-2-ND	4,000	22.00/M	C1608X8R2A682K
	X8R	100	0.01µF	±10%	0.8	445-2510-1-ND	1.32	7.80	22.50	445-2510-2-ND	4,000	22.00/M	C1608X8R2A103K
	X8R	100	0.015µF	±10%	0.8	445-2511-1-ND	1.32	7.80	22.50	445-2511-2-ND	4,000	22.00/M	C1608X8R2A153K
	X8R	50	1000pF	±10%	0.8	445-2501-1-ND	1.16	6.83	19.69	445-2501-2-ND	4,000	19.00/M	C1608X8R1H102K
	X8R	50	1500pF	±10%	0.95	445-3422-1-ND	1.16	6.83	19.69	445-3422-2-ND	4,000	19.00/M	C1608X8R1H152K
	X8R	50	2200pF	±10%	0.8	445-2502-1-ND	1.16	6.83	19.69	445-2502-2-ND	4,000	19.00/M	C1608X8R1H222K
	X8R	50	3300pF	±10%	0.95	445-3424-1-ND	1.16	6.83	19.69	445-3424-2-ND	4,000	19.00/M	C1608X8R1H332K
	X8R	50	4700pF	±10%	0.8	445-2503-1-ND	1.16	6.83	19.69	445-2503-2-ND	4,000	19.00/M	C1608X8R1H472K
	X8R	50	6800pF	±10%	0.95	445-3426-1-ND	1.16	6.83	19.69	445-3426-2-ND	4,000	19.00/M	C1608X8R1H682K
	X8R	50	15000pF	±10%	0.95	445-3423-1-ND	1.16	6.83	19.69	445-3423-2-ND	4,000	19.00/M	C1608X8R1H153K
	X8R	50	33000pF	±10%	0.95	445-3425-1-ND	1.16	6.83	19.69	445-3425-2-ND	4,000	19.00/M	C1608X8R1H333K
	X8R	50	0.01µF	±10%	0.8	445-2504-1-ND	1.16	6.83	19.69	445-2504-2-ND	4,000	19.00/M	C1608X8R1H103K
	X8R	50	0.022µF	±10%	0.8	445-2505-1-ND	1.16	6.83	19.69	445-2505-2-ND	4,000	19.00/M	C1608X8R1H223K
	X8R	50	0.047µF	±10%	0.8	445-2506-1-ND	1.16	6.83	19.69	445-2506-2-ND	4,000	19.00/M	C1608X8R1H473K
	X8R	25	68000pF	±10%	0.95	445-3421-1-ND	1.16	6.83	19.69	445-3421-2-ND	4,000	19.00/M	C1608X8R1E683K
	X8R	25	0.1µF	±10%	0.8	445-2500-1-ND	1.16	6.83	19.69	445-2500-2-ND	4,000	19.00/M	C1608X8R1E104K
0612	X7R	50	10000pF	±10%	0.7	445-1810-1-ND	3.52	20.81	60.02	445-1810-2-ND	4,000	57.62/M	C1632X7R1H103K
	X7R	50	22000pF	±10%	0.7	445-1811-1-ND	3.76	22.19	64.01	445-1811-2-ND	4,000	61.46/M	C1632X7R1H223K
	X7R	50	47000pF	±10%	0.7	445-1812-1-ND	3.99	23.58	68.03	445-1812-2-ND	4,000	65.31/M	C1632X7R1H473K
	X7R	50	0.1µF	±10%	0.7	445-1813-1-ND	5.39	31.85	91.88	445-1813-2-ND	4,000	88.20/M	C1632X7R1H104K
	X7R	50	0.22µF	±10%	1.15	445-1814-1-ND	4.46	26.36	76.03	445-1814-2-ND	2,000	72.99/M	C1632X7R1H224K
	X7R	25	0.22µF	±10%	0.7	445-1815-1-ND	4.23	24.97	72.02	445-1815-2-ND	4,000	69.14/M	C1632X7R1E224K
	X7R	25	0.47µF	±10%	1.15	445-1816-1-ND	4.69	27.74	80.03	445-1816-2-ND	2,000	76.83/M	C1632X7R1E474K
	X7R	16	0.47µF	±10%	0.7	445-1817-1-ND	4.46	26.36	76.03	445-1817-2-ND	4,000	72.99/M	C1632X7R1C474K
	X7R	16	1.0µF	±10%	1.15	445-1818-1-ND	5.87	34.68	100.03	445-1818-2-ND	2,000	96.03/M	C1632X7R1C105K
	X7R	6.3	1.0µF	±20%	0.7	445-4076-1-ND	5.28	31.20	90.00	445-4076-2-ND	4,000	86.00/M	C1632X7R0J105M
	X7R	6.3	2.2µF	±20%	1.15	445-4077-1-ND	6.60	39.00	112.50	445-4077-2-ND	2,000	108.00/M	C1632X7R0J225M
	X7S	4.0	4.7µF	±20%	1.3	445-4079-1-ND	7.70	45.50	131.25	445-4079-2-ND	2,000	126.00/M	C1632X7S0G475M
	X7S	4.0	10µF	±20%	1.3	445-4078-1-ND	11.00	65.00	187.50	445-4078-2-ND	2,000	180.00/M	C1632X7S0G106M
	X5R	10	1.0µF	±10%	0.7	445-1819-1-ND	5.63	33.29	96.04	445-1819-2-ND	4,000	92.20/M	C1632X5R1A105K
	X5R	10	1.0µF	±20%	0.7	445-4074-1-ND	5.28	31.20	90.00	445-4074-2-ND	4,000	86.00/M	C1632X5R1A105M
	X5R	10	2.2µF	±10%	1.15	445-1820-1-ND	7.04	41.61	120.04	445-1820-2-ND	2,000	115.24/M	C1632X5R1A225K
	X5R	10	2.2µF	±20%	1.15	445-4075-1-ND	6.60	39.00	112.50	445-4075-2-ND	2,000	108.00/M	C1632X5R1A225M
	X5R	6.3	4.7µF	±10%	1.3	445-1821-1-ND	.82	4.87	14.04	445-1821-2-ND	2,000	13.48/M	C1632X5R0J475K
	X5R	6.3	4.7µF	±20%	1.3	445-4073-1-ND	7.70	45.50	131.25	445-4073-2-ND	2,000	126.00/M	C1632X5R0J475M
	X5R	6.3	10µF	±20%	1.3	445-4072-1-ND	11.00	65.00	187.50	445-4072-2-ND	2,000	180.00/M	C1632X5R0J106M
0805	C0G (NP0)	250	100pF	±5%	0.7	445-4139-1-ND	1.65	9.75	28.13	445-4139-2-ND	4,000	27.00/M	C2012C0G2E101J
	C0G (NP0)	250	820pF	±5%	0.7	445-4140-1-ND	1.65	9.75	28.13	445-4140-2-ND	4,000	27.00/M	C2012C0G2E821J
	C0G (NP0)	250	1000pF	±5%	0.85	445-2325-1-ND	1.60	9.46	27.28	445-2325-2-ND	4,000	26.00/M	C2012C0G2E102J
	C0G (NP0)	250	1200pF	±5%	0.85	445-4141-1-ND	1.82	10.73	30.94	445-4141-2-ND	4,000	30.00/M	C2012C0G2E122J
	C0G (NP0)	250	1500pF	±5%	0.85	445-2326-1-ND	1.92	11.35	32.74	445-2326-2-ND	4,000	31.00/M	C2012C0G2E152J
	C0G (NP0)	250	1800pF	±5%	1.25	445-4142-1-ND	2.15	12.68	36.56	445-4142-2-ND	2,000	35.00/M	C2012C0G2E182J
	C0G (NP0)	250	2200pF	±5%	1.25	445-2327-1-ND	2.24	13.24	38.19	445-2327-2-ND	2,000	37.00/M	C2012C0G2E222J
	C0G (NP0)	250	2700pF	±5%	1.25	445-2328-1-ND	2.40	14.19	40.93	445-2328-2-ND	2,000	39.00/M	C2012C0G2E272J
	C0G (NP0)	100	100pF	±5%	0.87	445-4132-1-ND	.88	5.20	15.00	445-4132-2-ND	4,000	14.00/M	C2012C0G2A101J
	C0G (NP0)	100	220pF	±5%	0.87	445-4133-1-ND	.99	5.85	16.88	445-4133-2-ND	4,000	16.00/M	C2012C0G2A221J
	C0G (NP0)	100	470pF	±5%	1.35	445-4134-1-ND	1.10	6.50	18.75	445-4134-2-ND	4,000	18.00/M	C2012C0G2A471J
	C0G (NP0)	100	1000pF	±5%	0.6	445-2320-1-ND	1.08	6.37	18.38	445-2320-2-ND	4,000	18.00/M	C2012C0G2A102J
	C0G (NP0)	100	1200pF	±5%	0.6	445-4135-1-ND	1.21	7.15	20.63	445-4135-2-ND	4,000	20.00/M	C2012C0G2A122J
	C0G (NP0)	100	1500pF	±5%	0.6	445-2321-1-ND	1.21	7.15	20.63	445-2321-2-ND	4,000	20.00/M	C2012C0G2A152J
	C0G (NP0)	100	1800pF	±5%	0.85	445-4136-1-ND	1.65	9.75	28.13	445-4136-2-ND	4,000	27.00/M	C2012C0G2A182J
	C0G (NP0)	100	2200pF	±5%	0.85	445-2322-1-ND	1.76	10.41	30.02	445-2322-2-ND	4,000	29.00/M	C2012C0G2A222J
	C0G (NP0)	100	2700pF	±5%	0.87	445-4137-1-ND	1.98	11.70	33.75	445-4137-2-ND	2,000	32.00/M	C2012C0G2A272J
	C0G (NP0)	100	3300pF	±5%	1.25	445-2323-1-ND	2.08	12.30	35.48	445-2323-2-ND	2,000	34.00/M	C2012C0G2A332J
	C0G (NP0)	100	3900pF	±5%	1.25	445-4138-1-ND	2.31	13.65	39.38	445-4138-2-ND	2,000	38.00/M	C2012C0G2A392J
	C0G (NP0)	100	4700pF	±5%	1.25	445-2324-1-ND	2.40	14.19	40.93	445-2324-2-ND	2,000	39.00/M	C2012C0G2A472J
	C0G (NP0)	50	100pF	±5%	0.6	445-1329-1-ND	.55	3.25	9.38	445-1329-2-ND	4,000	9.00/M	C2012C0G1H101J
	C0G (NP0)	50	1000pF	±5%	0.6	445-1330-1-ND	.85	5.01	14.44	445-1330-2-ND	4,000	13.86/M	C2012C0G1H102J
	C0G (NP0)	50	1200pF	±5%	0.6	445-2681-1-ND	1.10	6.50	18.75	445-2681-2-ND	4,000	18.00/M	C2012C0G1H122J
	C0G (NP0)	50	1500pF	±5%	0.6	445-1331-1-ND	1.10	6.50	18.75	445-1331-2-ND	4,000	18.00/M	C2012C0G1H152J
	C0G (NP0)	50	1800pF	±5%	0.6	445-2682-1-ND	1.87	11.05	31.88	445-2682-2-ND	4,000	31.00/M	C2012C0G1H182J
	C0G (NP0)	50	2200pF	±5%	0.6	445-1332-1-ND	1.21	7.15	20.63	445-1332-2-ND	4,000	19.80/M	C2012C0G1H222J
	C0G (NP0)	50	2700pF	±5%	0.6	445-1600-1-ND	1.65	9.75	28.13	445-1600-2-ND	2,000	27.00/M	C2012C0G1H272J/1.25
	C0G (NP0)	50	3300pF	±5%	0.6	445-1333-1-ND	1.87	11.05	31.88	445-1333-2-ND	2,000	30.60/M	C2012C0G1H332J/1.25
	C0G (NP0)	50	3900pF	±5%	0.85	445-2683-1-ND	3.30	19.50	56.25	445-2683-2-ND	4,000	54.00/M	C2012C0G1H392J
	C0G (NP0)	50	4700pF	±5%	0.85	445-1334-1-ND	3.30	19.50	56.25	445-1334-2-ND	4,000	54.00/M	C2012C0G1H472J
	C0G (NP0)	50	5600pF	±5%	0.85	445-2684-1-ND	3.85	22.75	65.63	445-2684-2-ND	4,000	63.00/M	C2012C0G1H562J
	C0G (NP0)	50	6800pF	±5%	1.25	445-1335-1-ND	3.85	22.75	65.63	445-1335-2-ND	2,000	63.00/M	C2012C0G1H682J
	C0G (NP0)	50	8200pF	±5%	1.25	445-2685-1-ND	4.40	26.00	75.00	445-2685-2-ND	2,000	72.00/M	C2012C0G1H822J
	C0G (NP0)	50	10000pF	±5%	1.25	445-1336-1-ND	7.47	44.14	127.31	445-1336-2-ND	2,000	122.22/M	C2012C0G1H103J
	C0G (NP0)	25	3900pF	±5%	0.6	445-2676-1-ND	2.20	13.00	37.50	445-2676-2-ND	4,000	36.00/M	C2012C0G1E392J
	C0G (NP0)	25	4700pF	±5%	0.6	445-2677-1-ND	2.75	16.25	46.88	445-2677-2-ND	4,000	45.00/M	C2012C0G1E472J
	C0G (NP0)	25	5600pF	±5%	0.6	445-2678-1-ND	3.30	19.50	56.25	445-2678-2-ND	4,000	54.00/M	C2012C0G1E562J

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0805	C0G (NP0)	25	6800pF	±5%	0.6	445-2679-1-ND	3.85	22.75	65.63	—	—	—	C2012C0G1E682J
	C0G (NP0)	25	8200pF	±5%	0.6	445-2680-1-ND	3.85	22.75	65.63	445-2680-2-ND	4,000	63.00/M	C2012C0G1E822J
	C0G (NP0)	25	10000pF	±5%	0.6	445-2672-1-ND	4.07	24.05	69.38	445-2672-2-ND	4,000	67.00/M	C2012C0G1E103J
	C0G (NP0)	25	15000pF	±5%	0.85	445-2673-1-ND	4.95	29.25	84.38	445-2673-2-ND	4,000	81.00/M	C2012C0G1E153J
	C0G (NP0)	25	22000pF	±5%	1.25	445-2674-1-ND	4.95	29.25	84.38	445-2674-2-ND	2,000	81.00/M	C2012C0G1E223J
	C0G (NP0)	25	33000pF	±5%	1.25	445-2675-1-ND	5.50	32.50	93.75	445-2675-2-ND	2,000	90.00/M	C2012C0G1E333J
	X7R	250	1000pF	±10%	0.85	445-2277-1-ND	1.27	7.48	21.56	445-2277-2-ND	4,000	21.00/M	C2012X7R2E102K
	X7R	250	1000pF	±20%	0.85	445-4443-1-ND	1.27	7.48	21.56	445-4443-2-ND	4,000	20.70/M	C2012X7R2E102M
	X7R	250	1500pF	±10%	0.85	445-4444-1-ND	1.43	8.45	24.38	445-4444-2-ND	4,000	23.40/M	C2012X7R2E152K
	X7R	250	1500pF	±20%	0.85	445-4445-1-ND	1.43	8.45	24.38	445-4445-2-ND	4,000	23.40/M	C2012X7R2E152M
	X7R	250	2200pF	±10%	0.85	445-2278-1-ND	1.43	8.45	24.38	445-2278-2-ND	4,000	23.00/M	C2012X7R2E222K
	X7R	250	2200pF	±20%	0.85	445-4446-1-ND	1.43	8.45	24.38	445-4446-2-ND	4,000	23.40/M	C2012X7R2E222M
	X7R	250	3300pF	±10%	0.85	445-4447-1-ND	1.54	9.10	26.25	445-4447-2-ND	4,000	25.20/M	C2012X7R2E332K
	X7R	250	3300pF	±20%	0.85	445-4448-1-ND	1.54	9.10	26.25	445-4448-2-ND	4,000	25.20/M	C2012X7R2E332M
	X7R	250	4700pF	±10%	0.85	445-2279-1-ND	1.54	9.10	26.25	445-2279-2-ND	4,000	25.00/M	C2012X7R2E472K
	X7R	250	4700pF	±20%	0.85	445-4449-1-ND	1.54	9.10	26.25	445-4449-2-ND	4,000	25.20/M	C2012X7R2E472M
	X7R	250	6800pF	±10%	0.85	445-4450-1-ND	1.65	9.75	28.13	445-4450-2-ND	2,000	27.00/M	C2012X7R2E682K
	X7R	250	6800pF	±20%	0.85	445-4451-1-ND	1.65	9.75	28.13	445-4451-2-ND	2,000	27.00/M	C2012X7R2E682M
	X7R	250	10000pF	±10%	1.25	445-2280-1-ND	1.21	7.15	20.63	445-2280-2-ND	2,000	20.00/M	C2012X7R2E103K
	X7R	250	10000pF	±20%	0.85	445-4452-1-ND	1.21	7.15	20.63	445-4452-2-ND	2,000	19.80/M	C2012X7R2E103M
	X7R	250	15000pF	±10%	1.25	445-4453-1-ND	2.09	12.35	35.63	445-4453-2-ND	2,000	34.20/M	C2012X7R2E153K
	X7R	250	15000pF	±20%	1.25	445-4454-1-ND	2.09	12.35	35.63	445-4454-2-ND	2,000	34.20/M	C2012X7R2E153M
	X7R	250	22000pF	±10%	1.25	445-2281-1-ND	2.09	12.35	35.63	445-2281-2-ND	2,000	34.00/M	C2012X7R2E223K
	X7R	250	22000pF	±20%	1.25	445-4455-1-ND	2.09	12.35	35.63	445-4455-2-ND	2,000	34.20/M	C2012X7R2E223M
	X7R	100	1000pF	±10%	0.85	445-1337-1-ND	.77	4.55	13.13	445-1337-2-ND	4,000	12.60/M	C2012X7R2A102K
	X7R	100	1000pF	±20%	0.85	445-1338-1-ND	.77	4.55	13.13	445-1338-2-ND	4,000	12.60/M	C2012X7R2A102M
	X7R	100	1500pF	±10%	0.85	445-4429-1-ND	.88	5.20	15.00	445-4429-2-ND	4,000	14.40/M	C2012X7R2A152K
	X7R	100	1500pF	±20%	0.85	445-4430-1-ND	.88	5.20	15.00	445-4430-2-ND	4,000	14.40/M	C2012X7R2A152M
	X7R	100	2200pF	±10%	0.85	445-1339-1-ND	.88	5.20	15.00	445-1339-2-ND	4,000	14.40/M	C2012X7R2A222K
	X7R	100	2200pF	±20%	0.85	445-1340-1-ND	.88	5.20	15.00	445-1340-2-ND	4,000	14.40/M	C2012X7R2A222M
	X7R	100	3300pF	±10%	0.85	445-4431-1-ND	.99	5.85	16.88	445-4431-2-ND	4,000	16.20/M	C2012X7R2A332K
	X7R	100	3300pF	±20%	0.85	445-4432-1-ND	.99	5.85	16.88	445-4432-2-ND	4,000	16.20/M	C2012X7R2A332M
	X7R	100	4700pF	±10%	0.85	445-1341-1-ND	.88	5.20	15.00	445-1341-2-ND	4,000	14.40/M	C2012X7R2A472K
	X7R	100	4700pF	±20%	0.85	445-1342-1-ND	.88	5.20	15.00	445-1342-2-ND	4,000	14.40/M	C2012X7R2A472M
	X7R	100	6800pF	±10%	1.25	445-4433-1-ND	.99	5.85	16.88	445-4433-2-ND	4,000	16.20/M	C2012X7R2A682K
	X7R	100	6800pF	±20%	1.25	445-4434-1-ND	.99	5.85	16.88	445-4434-2-ND	4,000	16.20/M	C2012X7R2A682M
	X7R	100	10000pF	±10%	0.85	445-1343-1-ND	.88	5.20	15.00	445-1343-2-ND	4,000	14.40/M	C2012X7R2A103K
	X7R	100	10000pF	±20%	0.85	445-1344-1-ND	.88	5.20	15.00	445-1344-2-ND	4,000	14.40/M	C2012X7R2A103M
	X7R	100	15000pF	±10%	1.25	445-4435-1-ND	1.10	6.50	18.75	445-4435-2-ND	2,000	18.00/M	C2012X7R2A153K
	X7R	100	15000pF	±20%	1.25	445-4436-1-ND	1.10	6.50	18.75	445-4436-2-ND	2,000	18.00/M	C2012X7R2A153M
	X7R	100	22000pF	±10%	1.25	445-1345-1-ND	1.32	7.80	22.50	445-1345-2-ND	2,000	21.60/M	C2012X7R2A223K
	X7R	100	22000pF	±20%	1.25	445-1346-1-ND	1.32	7.80	22.50	445-1346-2-ND	2,000	21.60/M	C2012X7R2A223M
	X7R	100	33000pF	±10%	1.25	445-4437-1-ND	1.65	9.75	28.13	445-4437-2-ND	2,000	27.00/M	C2012X7R2A333K
	X7R	100	33000pF	±20%	1.25	445-4438-1-ND	1.65	9.75	28.13	445-4438-2-ND	2,000	27.00/M	C2012X7R2A333M
	X7R	100	47000pF	±10%	1.25	445-2276-1-ND	1.65	9.75	28.13	445-2276-2-ND	2,000	27.00/M	C2012X7R2A473K
	X7R	100	47000pF	±20%	1.25	445-4439-1-ND	1.65	9.75	28.13	445-4439-2-ND	2,000	27.00/M	C2012X7R2A473M
	X7R	100	68000pF	±10%	0.85	445-4440-1-ND	2.75	16.25	46.88	445-4440-2-ND	4,000	45.00/M	C2012X7R2A683K
	X7R	100	68000pF	±20%	0.85	445-4441-1-ND	2.75	16.25	46.88	445-4441-2-ND	4,000	45.00/M	C2012X7R2A683M
	X7R	100	0.1µF	±10%	1.25	445-1418-1-ND	1.65	9.75	28.13	445-1418-2-ND	2,000	27.00/M	C2012X7R2A104K
	X7R	100	0.1µF	±20%	1.25	445-4442-1-ND	1.65	9.75	28.13	445-4442-2-ND	2,000	27.00/M	C2012X7R2A104M
	X7R	50	1000pF	±10%	0.6	445-1347-1-ND	.44	2.60	7.50	445-1347-2-ND	4,000	7.20/M	C2012X7R1H102K
	X7R	50	10000pF	±10%	0.6	445-1348-1-ND	.44	2.60	7.50	445-1348-2-ND	4,000	7.20/M	C2012X7R1H103K
	X7R	50	0.1µF	±10%	0.85	445-1349-1-ND	.66	3.90	11.25	445-1349-2-ND	2,000	10.80/M	C2012X7R1H104K
	X7R	50	0.22µF	±10%	1.25	445-1350-1-ND	1.05	6.18	17.81	445-1350-2-ND	2,000	17.10/M	C2012X7R1H224K
	X7R	25	0.1µF	±10%	0.85	445-1351-1-ND	1.58	9.33	26.93	445-1351-2-ND	2,000	25.85/M	C2012X7R1E104K
	X7R	25	0.22µF	±10%	1.25	445-1352-1-ND	1.05	6.18	17.81	445-1352-2-ND	2,000	17.10/M	C2012X7R1E224K
	X7R	25	0.47µF	±10%	1.25	445-1353-1-ND	1.54	9.10	26.25	445-1353-2-ND	2,000	25.20/M	C2012X7R1E474K
	X7R	25	1.0µF	±10%	1.25	445-1354-1-ND	1.21	7.15	20.63	445-1354-2-ND	2,000	19.80/M	C2012X7R1E105K
	X7R	16	0.22µF	±10%	1.25	445-1355-1-ND	1.05	6.18	17.81	445-1355-2-ND	2,000	17.10/M	C2012X7R1C224K
	X7R	16	0.33µF	±10%	1.25	445-1356-1-ND	1.65	9.75	28.13	445-1356-2-ND	2,000	27.00/M	C2012X7R1C334K/1.25
	X7R	16	0.47µF	±10%	1.25	445-1357-1-ND	1.43	8.45	24.38	445-1357-2-ND	2,000	23.40/M	C2012X7R1C474K
	X7R	16	1.0µF	±10%	1.25	445-1358-1-ND	.99	5.85	16.88	445-1358-2-ND	2,000	16.20/M	C2012X7R1C105K/1.25
	X7R	16	2.2µF	±10%	1.25	445-1420-1-ND	1.98	11.70	33.75	445-1420-2-ND	2,000	32.40/M	C2012X7R1C225K
	X7R	10	1.0µF	±10%	0.85	445-1359-1-ND	.99	5.85	16.88	445-1359-2-ND	2,000	16.20/M	C2012X7R1A105K
	X7R	10	4.7µF	±20%	1.25	445-1605-1-ND	2.20	13.00	37.50	445-1605-2-ND	2,000	36.00/M	C2012X7R1A475M
	X7S	100	0.47µF	±10%	1.25	445-5203-1-ND	6.05	35.75	103.13	445-5203-2-ND	2,000	99.00/M	C2012X7S2A474K
	X7S	100	0.47µF	±20%	1.25	445-5204-1-ND	6.05	35.75	103.13	445-5204-2-ND	2,000	99.00/M	C2012X7S2A474M
	X7S	100	1.0µF	±10%	1.25	445-5205-1-ND	6.60	39.00	112.50	445-5205-2-ND	2,000	108.00/M	C2012X7S2A105K
	X7S	100	1.0µF	±20%	1.25	445-5206-1-ND	6.60	39.00	112.50	445-5206-2-ND	2,000	108.00/M	C2012X7S2A105M
	X5R	25	1.0µF	±10%	1.25	445-1419-1-ND	1.65	9.75	28.13	445-1419-2-ND	2,000	27.00/M	C2012X5R1E105K
	X5R	25	4.7µF	±10%	1.45	445-4116-1-ND	3.30	19.50	56.25	445-4116-2-ND	2,000	54.00/M	C2012X5R1E475K
	X5R	16	10µF	±20%	1.45	445-4115-1-ND	5.50	32.50	93.75	445-4115-2-ND	2,000	90.00/M	C2012X5R1C106M
	X5R	10	1.0µF	±10%	0.85	445-1587-1-ND	.99	5.85	16.88	445-1587-2-ND	4,000	16.20/M	C2012X5R1A105K/0.85
	X5R	10	2.2µF	±10%	0.85	445-1588-1-ND	1.54	9.10	26.25	445-1588-2-ND	4,000	25.20/M	C2012X5R1A225K/0.85
	X5R	6.3	4.7µF	±10%	0.85	445-3439-1-ND	2.31	13.65	39.38	445-3439-2-ND	4,000	38.00/M	C2012X5R0J475K/0.85
	X5R	6.3	4.7µF	±20%	0.85	445-3440-1-ND	2.31	13.65	39.38	445-3440-2-ND	4,000	38.00/M	C2012X5R0J475M/0.85
	X5R	6.3	4.7µF	±10%	1.25	445-1421-1-ND	1.98	11.70	33.75	445-1421-2-ND	2,000	32.40/M	C2012X5R0J475K/1.25
	X5R	6.3	4.7µF	±20%	1.25	445-1362-1-ND	1.98	11.70	33.75	445-1362-2-ND	2,000	32.40/M	C2012X5R0J475M/1.25
	X5R	6.3	10µF	±10%	1.25	445-4113-1-ND	2.20	13.00	37.50	445-4113-2-ND	2,000	36.00/M	C2012X5R0J106K
	X5R	6.3	10µF	±20%	1.25	445-1363-1-ND	1.43	8.45	24.38	445-1363-2-ND	2,000	23.40/M	C2012X5R0J106M
	X5R	6.3	22µF	±20%	1.25	445-1422-1-ND	3.96	23.40	67.50	445-1422-2-ND	2,000	64.80/M	C2012X5R0J226M
	Y5V	50	0.10µF	+80/-20%	0.6	445-3462-1-ND	.66	3.90	11.25	445-3462-2-ND	4,000	11.00/M	C2012Y5V1H104Z/0.60
	Y5V	50	1.0µF	+80/-20%	0.85	445-3463-1-ND	.66	3.90	11.25	445-3463-2-ND	4,000	11.00/M	C2012Y5V1H105Z/0.85
	Y5V	50	1.0µF	+80/-20%	1.25	445-1364-1-ND	.72	4.23	12.19	445-1364-2-ND	2,000	11.70/M	C2012Y5V1H105Z/1.25
	Y5V	50	2.2µF	+80/-20%	1.25	445-3464-1-ND	1.65	9.75	28.13	445-3464-2-ND	2,000	27.00/M	C2012Y5V1H225Z
	Y5V	25	1.0µF	+80/-20%	0.85	445-1590-1-ND	.61	3.58	10.31	445-1590-2-ND	4,000	9.90/M	C2012Y5V1E105Z/0.85
	Y5V	25	2.2µF	+80/-20%	1.25	445-1366-1-ND	1.21	7.15	20.63	445-1366-2-ND	2,000	19.80/M	C2012Y5V1E225Z
	Y5V	25	4.7µF	+80/-20%	1.25	445-3461-1-ND	2.20	13.00	37.50	445-3461-2-ND	2,000	36.00/M	C2012Y5V1E475Z
	Y5V	16	1.0µF	+80/-20%	0.85	445-1589-1-ND	.55	3.25	9.38	445-1589-2-ND	4,000	9.00/M	C2012Y5V1C105Z/0.85
	Y5V	16	2.2µF	+80/-20%	0.85	445-3459-1-ND	.99	5.85	16.88	445-3459-2-ND	4,000	16.00/M	C2012Y5V1C225Z/0.85
	Y5V	16	2.2µF	+80/-20%	1.25	445-1368-1-ND	1.05	6.18	17.81	445-1368-2-ND	2,000	17.10/M	C2012Y5V1C225Z
	Y5V	16	4.7µF	+80/-20%	0.85	445-3460-1-ND	1.65	9.75	28.13	445-3460-2-ND	4,000	27.00/M	C2012Y5V1C475Z/0.85
	Y5V	16	4.7µF	+80/-20%	1.25	445-1369-1-ND	1.38	8.13	23.44	445-1369-2-ND	2,000	22.50/M	C2012Y5V1C475Z
	Y5V	16	10µF	+80/-20%	1.25	445-3458-1-ND	2.42	14.30	41.25	445-3458-2-ND	2,000	40.00/M	C2012Y5V1C106Z
	Y5V	10	4.7µF	+80/-20%	0.85	445-3457-1-ND	1.21	7.15	20.63	445-3457-2-ND	4,000	20.00/M	C2012Y5V1A475Z/0.85
	Y5V	10	4.7µF	+80/-20%	1.25	445-1370-1-ND	1.10	6.50	18.75	445-1370-2-ND	2,000	18.00/M	C2012Y5V1A475Z
	Y5V	10	10µF	+80/-20%	1.25	445-1371-1-ND	1.16	6.83	19.69	445-1371-2-ND	2,000	18.90/M	C2012Y5V1A106Z
	Y5V	6.3	10µF	+80/-20%	1.25	445-1372-1-ND	1.32	7.80	22.50	445-1372-2-ND	2,000	21.60/M	C2012Y5V0J106Z
	Y5V	6.3	22µF	+80/-20%	1.25	445-1373-1-ND	5.50	32.50	93.75	445-1373-2-ND	2,000	90.00/M	C2012Y5V0J226Z
	X8R	100	22000pF	±10%	1.25	445-2515-1-ND	2.48	14.63	42.19	445-2515-2-ND	2,000	41.00/M	C2012X8R2A223K
	X8R	50	68000pF	±10%	1.45	445-3431-1-ND	2.20	13.00	37.50	445-3431-2-ND	2,000	36.00/M	C2012X8R1H683K
	X8R	50	0.10µF	±10%	1.25	445-2514-1-ND	1.65	9.75	28.13	445-2514-2-ND	2,000	27.00/M	C2012X8R1H104K
	X8R	25	0.15µF	±10%	1.45	445-3430-1-ND	3.30	19.50	56.25	445-3430-2-ND	4,000	54.00/M	C2012X8R1E154K
	X8R	25	0.22µF	±10%	1.25	445-2512-1-ND	3.30	19.50	56.25	445-2512-2-ND	2,000	54.00/M	C2012X8R1E224K
	X8R	25	0.33µF	±10%	1.25	445-2513-1-ND	3.30	19.50	56.25	445-2513-2-ND	2,000	54.00/M	C2012X8R1E334K
	SL	10	68000pF	±5%	1.25	445-2689-1-ND	13.20	78.00	225.00	—	—	—	C2012SL1A683J

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
1206	C0G (NP0)	630	100pF	±5%	0.6	445-2336-1-ND	3.20	18.92	54.56	445-2336-2-ND	4,000	52.00/M	C3216C0G2J101J
	C0G (NP0)	630	120pF	±5%	0.6	445-4148-1-ND	3.30	19.50	56.25	445-4148-2-ND	4,000	54.00/M	C3216C0G2J121J
	C0G (NP0)	630	150pF	±5%	0.6	445-2337-1-ND	3.20	18.92	54.56	445-2337-2-ND	4,000	52.00/M	C3216C0G2J151J
	C0G (NP0)	630	180pF	±5%	0.6	445-4149-1-ND	3.30	19.50	56.25	445-4149-2-ND	4,000	54.00/M	C3216C0G2J181J
	C0G (NP0)	630	220pF	±5%	0.6	445-2338-1-ND	3.20	18.92	54.56	445-2338-2-ND	4,000	52.00/M	C3216C0G2J221J
	C0G (NP0)	630	270pF	±5%	0.6	445-4150-1-ND	3.30	19.50	56.25	445-4150-2-ND	4,000	54.00/M	C3216C0G2J271J
	C0G (NP0)	630	330pF	±5%	0.6	445-2339-1-ND	2.86	16.90	48.75	445-2339-2-ND	4,000	47.00/M	C3216C0G2J331J
	C0G (NP0)	630	390pF	±5%	0.6	445-4151-1-ND	3.30	19.50	56.25	445-4151-2-ND	4,000	54.00/M	C3216C0G2J391J
	C0G (NP0)	630	470pF	±5%	0.85	445-2340-1-ND	3.20	18.92	54.56	445-2340-2-ND	4,000	52.00/M	C3216C0G2J471J
	C0G (NP0)	630	560pF	±5%	0.85	445-4152-1-ND	3.30	19.50	56.25	445-4152-2-ND	4,000	54.00/M	C3216C0G2J561J
	C0G (NP0)	630	680pF	±5%	0.85	445-2341-1-ND	3.20	18.92	54.56	445-2341-2-ND	4,000	52.00/M	C3216C0G2J681J
	C0G (NP0)	630	820pF	±5%	0.85	445-4153-1-ND	3.30	19.50	56.25	445-4153-2-ND	4,000	54.00/M	C3216C0G2J821J
	C0G (NP0)	630	1000pF	±5%	0.85	445-2342-1-ND	3.20	18.92	54.56	445-2342-2-ND	4,000	52.00/M	C3216C0G2J102J
	C0G (NP0)	630	1200pF	±5%	0.85	445-4154-1-ND	4.13	24.38	70.31	445-4154-2-ND	4,000	68.00/M	C3216C0G2J122J
	C0G (NP0)	630	1500pF	±5%	1.15	445-2343-1-ND	4.00	23.65	68.21	445-2343-2-ND	2,000	65.00/M	C3216C0G2J152J
	C0G (NP0)	630	1800pF	±5%	1.15	445-4155-1-ND	4.95	29.25	84.38	445-4155-2-ND	2,000	81.00/M	C3216C0G2J182J
	C0G (NP0)	630	2200pF	±5%	1.15	445-2344-1-ND	4.80	28.37	81.84	445-2344-2-ND	2,000	79.00/M	C3216C0G2J222J
	C0G (NP0)	630	2700pF	±5%	1.6	445-4156-1-ND	5.78	34.13	98.44	445-4156-2-ND	2,000	95.00/M	C3216C0G2J272J
	C0G (NP0)	630	3300pF	±5%	1.6	445-2345-1-ND	5.60	33.10	95.49	445-2345-2-ND	2,000	92.00/M	C3216C0G2J332J
	C0G (NP0)	250	3300pF	±5%	0.85	445-2332-1-ND	3.20	18.92	54.56	445-2332-2-ND	4,000	52.00/M	C3216C0G2E332J
	C0G (NP0)	250	3900pF	±5%	1.15	445-4146-1-ND	4.13	24.38	70.31	445-4146-2-ND	2,000	68.00/M	C3216C0G2E392J
	C0G (NP0)	250	4700pF	±5%	1.15	445-2333-1-ND	4.80	28.37	81.84	445-2333-2-ND	2,000	79.00/M	C3216C0G2E472J
	C0G (NP0)	250	5600pF	±5%	1.15	445-4147-1-ND	5.78	34.13	98.44	445-4147-2-ND	2,000	95.00/M	C3216C0G2E562J
	C0G (NP0)	250	6800pF	±5%	1.6	445-2334-1-ND	6.40	37.83	109.13	445-2334-2-ND	2,000	105.00/M	C3216C0G2E682J
	C0G (NP0)	250	8200pF	±5%	1.6	445-2335-1-ND	7.20	42.56	122.78	445-2335-2-ND	2,000	118.00/M	C3216C0G2E822J
	C0G (NP0)	100	3900pF	±5%	0.6	445-4143-1-ND	3.30	19.50	56.25	445-4143-2-ND	4,000	54.00/M	C3216C0G2A392J
	C0G (NP0)	100	4700pF	±5%	0.85	445-2329-1-ND	4.00	23.65	68.21	445-2329-2-ND	4,000	65.00/M	C3216C0G2A472J
	C0G (NP0)	100	5600pF	±5%	0.7	445-4144-1-ND	4.95	29.25	84.38	445-4144-2-ND	4,000	81.00/M	C3216C0G2A562J
	C0G (NP0)	100	6800pF	±5%	1.15	445-2330-1-ND	5.60	33.10	95.49	445-2330-2-ND	2,000	92.00/M	C3216C0G2A682J
	C0G (NP0)	100	8200pF	±5%	1.15	445-4145-1-ND	6.60	39.00	112.50	445-4145-2-ND	2,000	108.00/M	C3216C0G2A822J
	C0G (NP0)	100	10000pF	±5%	1.15	445-2331-1-ND	6.40	37.83	109.13	445-2331-2-ND	2,000	105.00/M	C3216C0G2A103J
	C0G (NP0)	50	3900pF	±5%	0.6	445-4003-1-ND	3.30	19.50	56.25	445-4003-2-ND	4,000	54.00/M	C3216C0G1H392J
	C0G (NP0)	50	4700pF	±5%	0.6	445-1374-1-ND	3.96	23.40	67.50	445-1374-2-ND	4,000	64.80/M	C3216C0G1H472J/0.85
	C0G (NP0)	50	5600pF	±5%	0.6	445-4004-1-ND	4.95	29.25	84.38	445-4004-2-ND	4,000	81.00/M	C3216C0G1H562J
	C0G (NP0)	50	6800pF	±5%	0.6	445-4005-1-ND	4.95	29.25	84.38	445-4005-2-ND	4,000	81.00/M	C3216C0G1H682J/0.60
	C0G (NP0)	50	8200pF	±5%	0.85	445-4006-1-ND	5.50	32.50	93.75	445-4006-2-ND	2,000	90.00/M	C3216C0G1H822J
	C0G (NP0)	50	10000pF	±5%	0.85	445-1375-1-ND	5.50	32.50	93.75	445-1375-2-ND	2,000	90.00/M	C3216C0G1H103J/1.15
	C0G (NP0)	50	15000pF	±5%	1.15	445-2698-1-ND	6.38	37.70	108.75	445-2698-2-ND	2,000	104.00/M	C3216C0G1H153J
	C0G (NP0)	50	22000pF	±5%	1.15	445-1376-1-ND	6.60	39.00	112.50	445-1376-2-ND	2,000	108.00/M	C3216C0G1H223J
	C0G (NP0)	50	33000pF	±5%	1.6	445-2699-1-ND	12.10	71.50	206.25	445-2699-2-ND	2,000	198.00/M	C3216C0G1H333J
	C0G (NP0)	25	8200pF	±5%	0.6	445-2697-1-ND	5.50	32.50	93.75	445-2697-2-ND	4,000	90.00/M	C3216C0G1E822J
	C0G (NP0)	25	10000pF	±5%	0.6	445-2690-1-ND	5.50	32.50	93.75	445-2690-2-ND	4,000	90.00/M	C3216C0G1E103J
	C0G (NP0)	25	22000pF	±5%	0.6	445-2693-1-ND	6.49	38.35	110.63	445-2693-2-ND	4,000	106.00/M	C3216C0G1E223J
	C0G (NP0)	25	33000pF	±5%	0.85	445-2694-1-ND	8.80	52.00	150.00	445-2694-2-ND	4,000	144.00/M	C3216C0G1E333J
	C0G (NP0)	25	68000pF	±5%	1.6	445-2696-1-ND	14.30	84.50	243.75	—	—	—	C3216C0G1E683J
	X7R	630	1000pF	±10%	1.15	445-2288-1-ND	2.97	17.55	50.63	445-2288-2-ND	2,000	49.00/M	C3216X7R2J102K
	X7R	630	1000pF	±20%	1.15	445-4478-1-ND	2.97	17.55	50.63	445-4478-2-ND	2,000	48.60/M	C3216X7R2J102M
	X7R	630	1500pF	±10%	1.15	445-4479-1-ND	3.63	21.45	61.88	445-4479-2-ND	2,000	59.40/M	C3216X7R2J152K
	X7R	630	1500pF	±20%	1.15	445-4480-1-ND	3.63	21.45	61.88	445-4480-2-ND	2,000	59.40/M	C3216X7R2J152M
	X7R	630	2200pF	±10%	1.15	445-2289-1-ND	2.97	17.55	50.63	445-2289-2-ND	2,000	49.00/M	C3216X7R2J222K
	X7R	630	2200pF	±20%	1.15	445-4481-1-ND	2.97	17.55	50.63	445-4481-2-ND	2,000	48.60/M	C3216X7R2J222M
	X7R	630	3300pF	±10%	1.15	445-4482-1-ND	3.96	23.40	67.50	445-4482-2-ND	2,000	64.80/M	C3216X7R2J332K
	X7R	630	3300pF	±20%	1.15	445-4483-1-ND	3.96	23.40	67.50	445-4483-2-ND	2,000	64.80/M	C3216X7R2J332M
	X7R	630	4700pF	±10%	1.15	445-2290-1-ND	2.97	17.55	50.63	445-2290-2-ND	2,000	49.00/M	C3216X7R2J472K
	X7R	630	4700pF	±20%	1.15	445-4484-1-ND	2.97	17.55	50.63	445-4484-2-ND	2,000	48.60/M	C3216X7R2J472M
	X7R	630	6800pF	±10%	1.15	445-4485-1-ND	4.40	26.00	75.00	445-4485-2-ND	2,000	72.00/M	C3216X7R2J682K
	X7R	630	6800pF	±20%	1.15	445-4486-1-ND	4.40	26.00	75.00	445-4486-2-ND	2,000	72.00/M	C3216X7R2J682M
	X7R	630	10000pF	±10%	1.15	445-2291-1-ND	3.08	18.20	52.50	445-2291-2-ND	2,000	50.00/M	C3216X7R2J103K
	X7R	630	10000pF	±20%	1.15	445-4487-1-ND	3.08	18.20	52.50	445-4487-2-ND	2,000	50.40/M	C3216X7R2J103M
	X7R	630	15000pF	±10%	1.3	445-4488-1-ND	4.18	24.70	71.25	445-4488-2-ND	2,000	68.40/M	C3216X7R2J153K
	X7R	630	15000pF	±20%	1.3	445-4489-1-ND	4.18	24.70	71.25	445-4489-2-ND	2,000	68.40/M	C3216X7R2J153M
	X7R	630	22000pF	±10%	1.3	445-2292-1-ND	4.62	27.30	78.75	445-2292-2-ND	2,000	76.00/M	C3216X7R2J223K
	X7R	630	22000pF	±20%	1.3	445-4490-1-ND	4.40	26.00	75.00	445-4490-2-ND	2,000	72.00/M	C3216X7R2J223M
	X7R	630	33000pF	±10%	1.6	445-4491-1-ND	4.95	29.25	84.38	445-4491-2-ND	2,000	81.00/M	C3216X7R2J333K
	X7R	630	33000pF	±20%	1.6	445-4492-1-ND	4.95	29.25	84.38	445-4492-2-ND	2,000	81.00/M	C3216X7R2J333M
	X7R	250	15000pF	±10%	1.15	445-4469-1-ND	4.40	26.00	75.00	445-4469-2-ND	2,000	72.00/M	C3216X7R2E153K
	X7R	250	15000pF	±20%	1.15	445-4470-1-ND	4.40	26.00	75.00	445-4470-2-ND	2,000	72.00/M	C3216X7R2E153M
	X7R	250	22000pF	±10%	1.15	445-2285-1-ND	3.20	18.92	54.56	445-2285-2-ND	2,000	52.00/M	C3216X7R2E223K
	X7R	250	22000pF	±20%	1.15	445-4471-1-ND	3.20	18.92	54.56	445-4471-2-ND	2,000	52.38/M	C3216X7R2E223M
	X7R	250	33000pF	±10%	1.6	445-4472-1-ND	4.40	26.00	75.00	445-4472-2-ND	2,000	72.00/M	C3216X7R2E333K
	X7R	250	33000pF	±20%	1.6	445-4473-1-ND	4.40	26.00	75.00	445-4473-2-ND	2,000	72.00/M	C3216X7R2E333M
	X7R	250	47000pF	±10%	1.6	445-2286-1-ND	3.96	23.40	67.50	445-2286-2-ND	2,000	65.00/M	C3216X7R2E473K
	X7R	250	47000pF	±20%	1.6	445-4474-1-ND	3.96	23.40	67.50	445-4474-2-ND	2,000	64.80/M	C3216X7R2E473M
	X7R	250	68000pF	±10%	1.6	445-4475-1-ND	4.40	26.00	75.00	445-4475-2-ND	2,000	72.00/M	C3216X7R2E683K
	X7R	250	68000pF	±20%	1.6	445-4476-1-ND	4.40	26.00	75.00	445-4476-2-ND	2,000	72.00/M	C3216X7R2E683M
	X7R	250	0.1µF	±10%	1.6	445-2287-1-ND	3.85	22.75	65.63	445-2287-2-ND	2,000	63.00/M	C3216X7R2E104K
	X7R	250	0.1µF	±20%	1.6	445-4477-1-ND	3.85	22.75	65.63	445-4477-2-ND	2,000	63.00/M	C3216X7R2E104M
	X7R	100	33000pF	±10%	1.15	445-4456-1-ND	2.97	17.55	50.63	445-4456-2-ND	2,000	48.60/M	C3216X7R2A333K
	X7R	100	33000pF	±20%	1.15	445-4457-1-ND	2.97	17.55	50.63	445-4457-2-ND	2,000	48.60/M	C3216X7R2A333M
	X7R	100	47000pF	±10%	1.15	445-2282-1-ND	2.97	17.55	50.63	445-2282-2-ND	2,000	49.00/M	C3216X7R2A473K
	X7R	100	47000pF	±20%	1.15	445-4458-1-ND	2.97	17.55	50.63	445-4458-2-ND	2,000	48.60/M	C3216X7R2A473M
	X7R	100	68000pF	±10%	1.6	445-4459-1-ND	3.30	19.50	56.25	445-4459-2-ND	2,000	54.00/M	C3216X7R2A683K
	X7R	100	68000pF	±20%	1.6	445-4460-1-ND	3.30	19.50	56.25	445-4460-2-ND	2,000	54.00/M	C3216X7R2A683M
	X7R	100	0.1µF	±10%	1.6	445-1377-1-ND	2.97	17.55	50.63	445-1377-2-ND	2,000	48.60/M	C3216X7R2A104K
	X7R	100	0.1µF	±20%	1.6	445-1378-1-ND	2.97	17.55	50.63	445-1378-2-ND	2,000	48.60/M	C3216X7R2A104M
	X7R	100	0.15µF	±10%	1.6	445-4461-1-ND	3.30	19.50	56.25	445-4461-2-ND	2,000	54.00/M	C3216X7R2A154K
	X7R	100	0.15µF	±20%	1.6	445-4462-1-ND	3.30	19.50	56.25	445-4462-2-ND	2,000	54.00/M	C3216X7R2A154M
	X7R	100	0.22µF	±10%	1.15	445-2283-1-ND	3.08	18.20	52.50	445-2283-2-ND	2,000	50.00/M	C3216X7R2A224K
	X7R	100	0.22µF	±20%	1.15	445-4463-1-ND	3.08	18.20	52.50	445-4463-2-ND	2,000	50.40/M	C3216X7R2A224M
	X7R	100	0.33µF	±10%	1.3	445-4464-1-ND	6.60	39.00	112.50	445-4464-2-ND	2,000	108.00/M	C3216X7R2A334K
	X7R	100	0.33µF	±20%	1.3	445-4465-1-ND	6.60	39.00	112.50	445-4465-2-ND	2,000	108.00/M	C3216X7R2A334M
	X7R	100	0.47µF	±10%	1.6	445-2284-1-ND	7.70	45.50	131.25	445-2284-2-ND	2,000	126.00/M	C3216X7R2A474K
	X7R	100	0.47µF	±20%	1.6	445-4466-1-ND	7.70	45.50	131.25	445-4466-2-ND	2,000	126.00/M	C3216X7R2A474M
	X7R	100	1.0µF	±10%	1.6	445-4467-1-ND	7.92	46.80	135.00	445-4467-2-ND	2,000	129.60/M	C3216X7R2A105K
	X7R	100	1.0µF	±20%	1.6	445-4468-1-ND	7.92	46.80	135.00	445-4468-2-ND	2,000	129.60/M	C3216X7R2A105M
	X7R	50	0.1µF	±10%	0.85	445-4007-1-ND	1.65	9.75	28.13	445-4007-2-ND	4,000	27.00/M	C3216X7R1H104K
	X7R	50	0.1µF	±20%	0.85	445-4008-1-ND	1.65	9.75	28.13	445-4008-2-ND	4,000	27.00/M	C3216X7R1H104M
	X7R	50	0.22µF	±10%	1.6	445-1379-1-ND	1.98	11.70	33.75	445-1379-2-ND	2,000	32.40/M	C3216X7R1H224K
	X7R	50	0.22µF	±20%	1.15	445-4009-1-ND	1.98	11.70	33.75	445-4009-2-ND	2,000	32.00/M	C3216X7R1H224M
	X7R	50	0.33µF	±10%	1.6	445-4010-1-ND	2.20	13.00	37.50	445-4010-2-ND	2,000	36.00/M	C3216X7R1H334K
	X7R	50	0.33µF	±20%	1.6	445-4011-1-ND	2.20	13.00	37.50	445-4011-2-ND	2,000	36.00/M	C3216X7R1H334M
	X7R	50	0.47µF	±10%	1.6	445-1380-1-ND	2.20	13.00	37.50	445-1380-2-ND	2,000	36.00/M	C3216X7R1H474K
	X7R	50	0.47µF	±20%	1.6	445-4012-1-ND	2.20	13.00	37.50	445-4012-2-ND	2,000	36.00/M	C3216X7R1H474M
	X7R	50	0.68µF	±10%	1.6	445-4013-1-ND	3.30	19.50	56.25	445-4013-2-ND	2,000	54.00/M	C3216X7R1H684K
	X7R	50	0.68µF	±20%	1.6	445-4014-1-ND	3.30	19.50	56.25	445-4014-2-ND	2,000	54.00/M	C3216X7R1H684M

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	50	1.0µF	±10%	1.6	445-1423-1-ND	2.20	13.00	37.50	445-1423-2-ND	2,000	36.00/M	C3216X7R1H105K
	X7R	50	1.0µF	±20%	1.6	445-4015-1-ND	2.20	13.00	37.50	445-4015-2-ND	2,000	36.00/M	C3216X7R1H105M
	X7R	25	0.22µF	±10%	1.15	445-4016-1-ND	1.60	9.43	27.19	445-4016-2-ND	2,000	26.00/M	C3216X7R1E224K
	X7R	25	0.22µF	±20%	1.15	445-4017-1-ND	1.76	10.40	30.00	445-4017-2-ND	2,000	29.00/M	C3216X7R1E224M
	X7R	25	0.33µF	±10%	1.4	445-4018-1-ND	1.71	10.08	29.06	445-4018-2-ND	2,000	28.00/M	C3216X7R1E334K
	X7R	25	0.33µF	±20%	1.4	445-4019-1-ND	1.87	11.05	31.88	445-4019-2-ND	2,000	31.00/M	C3216X7R1E334M
	X7R	25	0.47µF	±10%	0.85	445-4020-1-ND	2.97	17.55	50.63	445-4020-2-ND	4,000	49.00/M	C3216X7R1E474K/0.85
	X7R	25	0.47µF	±20%	0.85	445-4021-1-ND	2.97	17.55	50.63	445-4021-2-ND	4,000	49.00/M	C3216X7R1E474M/0.85
	X7R	25	0.68µF	±10%	0.85	445-4022-1-ND	2.64	15.60	45.00	445-4022-2-ND	4,000	43.00/M	C3216X7R1E684K/0.85
	X7R	25	0.68µF	±20%	0.85	445-4023-1-ND	3.30	19.50	56.25	445-4023-2-ND	4,000	54.00/M	C3216X7R1E684M/0.85
	X7R	25	1.0µF	±10%	1.6	445-1381-1-ND	1.87	11.05	31.88	445-1381-2-ND	2,000	31.00/M	C3216X7R1E105K
	X7R	25	1.0µF	±20%	1.6	445-4025-1-ND	1.87	11.05	31.88	445-4025-2-ND	2,000	31.00/M	C3216X7R1E105M
	X7R	25	1.0µF	±20%	0.85	445-4024-1-ND	1.54	9.10	26.25	445-4024-2-ND	4,000	25.00/M	C3216X7R1E105M/0.85
	X7R	25	1.5µF	±10%	1.6	445-4026-1-ND	4.40	26.00	75.00	445-4026-2-ND	2,000	72.00/M	C3216X7R1E155K
	X7R	25	1.5µF	±20%	1.6	445-4027-1-ND	4.40	26.00	75.00	445-4027-2-ND	2,000	72.00/M	C3216X7R1E155M
	X7R	25	2.2µF	±20%	1.6	445-4028-1-ND	2.31	13.65	39.38	445-4028-2-ND	2,000	38.00/M	C3216X7R1E225M
	X7R	25	3.3µF	±10%	1.6	445-4029-1-ND	3.85	22.75	65.63	445-4029-2-ND	2,000	63.00/M	C3216X7R1E335K
	X7R	25	3.3µF	±20%	1.6	445-4030-1-ND	3.85	22.75	65.63	445-4030-2-ND	2,000	63.00/M	C3216X7R1E335M
	X7R	25	4.7µF	±10%	1.6	445-1606-1-ND	3.96	23.40	67.50	445-1606-2-ND	2,000	64.80/M	C3216X7R1E475K
	X7R	25	4.7µF	±20%	1.6	445-1424-1-ND	3.96	23.40	67.50	445-1424-2-ND	2,000	64.80/M	C3216X7R1E475M
	X7R	16	0.47µF	±10%	1.15	445-4031-1-ND	1.87	11.05	31.88	445-4031-2-ND	2,000	31.00/M	C3216X7R1C474K
	X7R	16	0.47µF	±20%	1.15	445-4032-1-ND	1.87	11.05	31.88	445-4032-2-ND	2,000	31.00/M	C3216X7R1C474M
	X7R	16	1.0µF	±10%	1.3	445-1383-1-ND	2.42	14.30	41.25	445-1383-2-ND	2,000	40.00/M	C3216X7R1C105K
	X7R	16	1.0µF	±20%	1.3	445-4036-1-ND	2.42	14.30	41.25	445-4036-2-ND	2,000	40.00/M	C3216X7R1C105M
	X7R	16	1.0µF	±10%	0.85	445-1591-1-ND	1.87	11.05	31.88	445-1591-2-ND	4,000	30.60/M	C3216X7R1C105K/0.85
	X7R	16	1.0µF	±20%	0.85	445-4033-1-ND	1.87	11.05	31.88	445-4033-2-ND	4,000	31.00/M	C3216X7R1C105M/0.85
	X7R	16	1.0µF	±10%	1.15	445-4034-1-ND	1.93	11.38	32.81	445-4034-2-ND	2,000	32.00/M	C3216X7R1C105K/1.15
	X7R	16	1.0µF	±20%	1.15	445-4035-1-ND	2.20	13.00	37.50	445-4035-2-ND	2,000	36.00/M	C3216X7R1C105M/1.15
	X7R	16	2.2µF	±10%	1.6	445-1384-1-ND	2.20	13.00	37.50	445-1384-2-ND	2,000	36.00/M	C3216X7R1C225K/1.60
	X7R	16	2.2µF	±20%	1.15	445-4037-1-ND	2.20	13.00	37.50	445-4037-2-ND	2,000	36.00/M	C3216X7R1C225M/1.60
	X7R	16	3.3µF	±10%	0.85	445-4038-1-ND	3.30	19.50	56.25	445-4038-2-ND	2,000	54.00/M	C3216X7R1C335K/1.60
	X7R	16	3.3µF	±20%	0.85	445-4039-1-ND	3.30	19.50	56.25	445-4039-2-ND	2,000	54.00/M	C3216X7R1C335M/1.60
	X7R	16	4.7µF	±10%	1.15	445-1385-1-ND	2.64	15.60	45.00	445-1385-2-ND	2,000	43.20/M	C3216X7R1C475K/1.60
	X7R	16	4.7µF	±20%	1.6	445-1425-1-ND	2.53	14.95	43.13	445-1425-2-ND	2,000	41.40/M	C3216X7R1C475M/1.60
	X7R	16	6.8µF	±10%	1.6	445-4040-1-ND	6.05	35.75	103.13	445-4040-2-ND	2,000	99.00/M	C3216X7R1C685K
	X7R	16	6.8µF	±20%	1.6	445-4041-1-ND	6.05	35.75	103.13	445-4041-2-ND	2,000	99.00/M	C3216X7R1C685M
	X7R	16	10µF	±10%	1.6	445-4042-1-ND	4.84	28.60	82.50	445-4042-2-ND	2,000	79.00/M	C3216X7R1C106K
	X7R	16	10µF	±20%	1.6	445-1601-1-ND	4.62	27.30	78.75	445-1601-2-ND	2,000	75.60/M	C3216X7R1C106M
	X7R	10	10µF	±10%	1.9	445-4043-1-ND	3.52	20.80	60.00	445-4043-2-ND	2,000	58.00/M	C3216X7R1A106K
	X7R	10	10µF	±20%	1.9	445-1602-1-ND	3.30	19.50	56.25	445-1602-2-ND	2,000	54.00/M	C3216X7R1A106M
	X7S	100	2.2µF	±10%	1.6	445-5207-1-ND	12.10	71.50	206.25	445-5207-2-ND	2,000	198.00/M	C3216X7S2A225K
	X7S	100	2.2µF	±20%	1.6	445-5208-1-ND	12.10	71.50	206.25	445-5208-2-ND	2,000	198.00/M	C3216X7S2A225M
	X5R	50	1.0µF	±10%	1.6	445-4044-1-ND	2.20	13.00	37.50	445-4044-2-ND	2,000	36.00/M	C3216X5R1H105K
	X5R	50	1.0µF	±20%	1.6	445-4576-1-ND	2.20	13.00	37.50	445-4576-2-ND	2,000	36.00/M	C3216X5R1H105M
	X5R	25	2.2µF	±10%	1.6	445-4045-1-ND	2.31	13.65	39.38	445-4045-2-ND	2,000	38.00/M	C3216X5R1E225K
	X5R	25	2.2µF	±20%	1.6	445-4577-1-ND	2.31	13.65	39.38	445-4577-2-ND	2,000	37.80/M	C3216X5R1E225M
	X5R	25	3.3µF	±10%	1.6	445-4046-1-ND	3.85	22.75	65.63	445-4046-2-ND	2,000	63.00/M	C3216X5R1E335K/1.60
	X5R	25	3.3µF	±20%	1.6	445-4578-1-ND	3.85	22.75	65.63	445-4578-2-ND	2,000	63.00/M	C3216X5R1E335M/1.60
	X5R	25	4.7µF	±10%	1.6	445-4047-1-ND	4.84	28.60	82.50	445-4047-2-ND	2,000	79.00/M	C3216X5R1E475K
	X5R	25	4.7µF	±20%	1.6	445-4048-1-ND	4.84	28.60	82.50	445-4048-2-ND	2,000	79.00/M	C3216X5R1E475M
	X5R	16	2.2µF	±10%	1.15	445-4049-1-ND	2.20	13.00	37.50	445-4049-2-ND	2,000	36.00/M	C3216X5R1C225K/1.60
	X5R	16	2.2µF	±20%	1.15	445-4579-1-ND	2.20	13.00	37.50	445-4579-2-ND	2,000	36.00/M	C3216X5R1C225M/1.60
	X5R	16	3.3µF	±10%	0.85	445-4580-1-ND	3.30	19.50	56.25	—	—	—	C3216X5R1C335K
	X5R	16	3.3µF	±20%	0.85	445-4581-1-ND	3.30	19.50	56.25	445-4581-2-ND	2,000	54.00/M	C3216X5R1C335M/1.60
	X5R	16	4.7µF	±10%	1.15	445-4050-1-ND	2.64	15.60	45.00	445-4050-2-ND	2,000	43.00/M	C3216X5R1C475K/1.60
	X5R	16	4.7µF	±20%	1.15	445-4051-1-ND	2.53	14.95	43.13	445-4051-2-ND	2,000	41.00/M	C3216X5R1C475M/1.60
	X5R	16	6.8µF	±10%	1.6	445-4582-1-ND	6.05	35.75	103.13	445-4582-2-ND	2,000	99.00/M	C3216X5R1C685K
	X5R	16	6.8µF	±20%	1.6	445-4583-1-ND	6.05	35.75	103.13	445-4583-2-ND	2,000	99.00/M	C3216X5R1C685M
	X5R	16	10µF	±10%	1.6	445-4052-1-ND	3.52	20.80	60.00	445-4052-2-ND	2,000	58.00/M	C3216X5R1C106K
	X5R	16	10µF	±20%	1.6	445-1426-1-ND	3.30	19.50	56.25	445-1426-2-ND	2,000	54.00/M	C3216X5R1C106M
	X5R	10	2.2µF	±10%	0.85	445-4053-1-ND	2.20	13.00	37.50	—	—	—	C3216X5R1A225K/1.15
	X5R	10	2.2µF	±20%	0.85	445-4054-1-ND	2.20	13.00	37.50	445-4054-2-ND	2,000	36.00/M	C3216X5R1A225M/1.60
	X5R	10	3.3µF	±10%	1.15	445-4055-1-ND	2.75	16.25	46.88	445-4055-2-ND	2,000	45.00/M	C3216X5R1A335K/1.15
	X5R	10	3.3µF	±20%	0.85	445-4584-1-ND	2.75	16.25	46.88	445-4584-2-ND	2,000	45.00/M	C3216X5R1A335M/1.15
	X5R	10	4.7µF	±10%	1.6	445-1386-1-ND	2.31	13.65	39.38	445-1386-2-ND	2,000	37.80/M	C3216X5R1A475K
	X5R	10	4.7µF	±20%	1.6	445-4056-1-ND	2.31	13.65	39.38	445-4056-2-ND	2,000	38.00/M	C3216X5R1A475M
	X5R	10	10µF	±10%	1.6	445-4057-1-ND	3.30	19.50	56.25	445-4057-2-ND	2,000	54.00/M	C3216X5R1A106K
	X5R	10	10µF	±20%	1.6	445-1387-1-ND	3.14	18.53	53.44	445-1387-2-ND	2,000	51.30/M	C3216X5R1A106M
	X5R	6.3	10µF	±10%	1.6	445-1388-1-ND	2.20	13.00	37.50	445-1388-2-ND	2,000	36.00/M	C3216X5R0J106K/1.60
	X5R	6.3	10µF	±20%	1.6	445-1389-1-ND	2.20	13.00	37.50	445-1389-2-ND	2,000	36.00/M	C3216X5R0J106M
	X5R	6.3	15µF	±20%	1.6	445-4058-1-ND	8.80	52.00	150.00	445-4058-2-ND	2,000	144.00/M	C3216X5R0J156M
	X5R	6.3	22µF	±10%	1.6	445-4059-1-ND	6.60	39.00	112.50	445-4059-2-ND	2,000	108.00/M	C3216X5R0J226K/1.6
	X5R	6.3	22µF	±20%	0.85	445-1427-1-ND	6.60	39.00	112.50	445-1427-2-ND	2,000	108.00/M	C3216X5R0J226M/1.60
	X5R	6.3	33µF	±20%	1.3	445-4060-1-ND	15.40	91.00	262.50	445-4060-2-ND	2,000	252.00/M	C3216X5R0J336M
	X5R	6.3	47µF	±20%	1.6	445-1428-1-ND	15.40	91.00	262.50	445-1428-2-ND	2,000	252.00/M	C3216X5R0J476M
	Y5V	50	2.2µF	+80/-20%	1.6	445-4585-1-ND	2.42	14.30	41.25	445-4585-2-ND	4,000	39.60/M	C3216Y5V1H225Z/0.85
	Y5V	50	4.7µF	+80/-20%	1.6	445-3472-1-ND	2.64	15.60	45.00	445-3472-2-ND	2,000	43.00/M	C3216Y5V1H475Z
	Y5V	25	4.7µF	+80/-20%	0.85	445-3470-1-ND	2.64	15.60	45.00	445-3470-2-ND	4,000	43.00/M	C3216Y5V1E475Z/0.85
	Y5V	25	4.7µF	+80/-20%	1.15	445-3471-1-ND	2.64	15.60	45.00	445-3471-2-ND	2,000	43.00/M	C3216Y5V1E475Z/1.15
	Y5V	25	10µF	+80/-20%	1.6	445-3469-1-ND	2.86	16.90	48.75	445-3469-2-ND	2,000	47.00/M	C3216Y5V1E106Z
	Y5V	16	4.7µF	+80/-20%	0.85	445-1594-1-ND	1.76	10.40	30.00	445-1594-2-ND	4,000	28.80/M	C3216Y5V1C475Z/0.85
	Y5V	16	4.7µF	+80/-20%	1.15	445-3467-1-ND	2.20	13.00	37.50	445-3467-2-ND	2,000	32.00/M	C3216Y5V1C475Z/1.15
	Y5V	16	4.7µF	+80/-20%	1.30	445-3468-1-ND	2.48	14.63	42.19	445-3468-2-ND	2,000	40.00/M	C3216Y5V1C475Z/1.30
	Y5V	16	10µF	+80/-20%	1.6	445-1391-1-ND	2.31	13.65	39.38	445-1391-2-ND	2,000	37.80/M	C3216Y5V1C106Z
	Y5V	16	22µF	+80/-20%	1.6	445-3466-1-ND	7.15	42.25	121.88	445-3466-2-ND	2,000	117.00/M	C3216Y5V1C226Z
	Y5V	10	10µF	+80/-20%	0.85	445-1593-1-ND	1.65	9.75	28.13	445-1593-2-ND	4,000	27.00/M	C3216Y5V1A106Z/0.85
	Y5V	10	10µF	+80/-20%	1.15	445-3465-1-ND	1.76	10.40	30.00	445-3465-2-ND	2,000	29.00/M	C3216Y5V1A106Z/1.15
	Y5V	10	22µF	+80/-20%	1.6	445-1393-1-ND	4.62	27.30	78.75	445-1393-2-ND	2,000	75.60/M	C3216Y5V1A226Z
	Y5V	6.3	47µF	+80/-20%	1.6	445-1394-1-ND	17.60	104.00	300.00	445-1394-2-ND	2,000	288.00/M	C3216Y5V0J476Z
	X8R	100	33000pF	±10%	1.8	445-3436-1-ND	6.60	39.00	112.50	445-3436-2-ND	4,000	108.00/M	C3216X8R2A333K
	X8R	100	68000pF	±10%	1.8	445-3437-1-ND	6.60	39.00	112.50	445-3437-2-ND	2,000	108.00/M	C3216X8R2A683K
	X8R	100	0.047µF	±10%	0.85	445-2520-1-ND	6.60	39.00	112.50	445-2520-2-ND	4,000	108.00/M	C3216X8R2A473K
	X8R	100	0.10µF	±10%	1.15	445-2521-1-ND	6.60	39.00	112.50	445-2521-2-ND	2,000	108.00/M	C3216X8R2A104K
	X8R	100	0.15µF	±10%	1.6	445-2522-1-ND	6.60	39.00	112.50	445-2522-2-ND	2,000	108.00/M	C3216X8R2A154K
	X8R	50	0.15µF	±10%	1.8	445-3434-1-ND	8.80	52.00	150.00	445-3434-2-ND	4,000	81.00/M	C3216X8R1H154K
	X8R	50	0.22µF	±10%	1.15	445-2518-1-ND	4.95	29.25	84.38	445-2518-2-ND	2,000	81.00/M	C3216X8R1H224K
	X8R	50	0.33µF	±10%	1.8	445-3435-1-ND	6.60	39.00	112.50	445-3435-2-ND	2,000	108.00/M	C3216X8R1H334K
	X8R	50	0.47µF	±10%	1.6	445-2519-1-ND	6.60	39.00	112.50	445-2519-2-ND	2,000	108.00/M	C3216X8R1H474K
	X8R	25	0.33µF	±10%	1.8	445-3432-1-ND	6.60	39.00	112.50	445-3432-2-ND	4,000	108.00/M	C3216X8R1E334K
	X8R	25	0.47µF	±10%	0.85	445-2516-1-ND	6.60	39.00	112.50	445-2516-2-ND	4,000	108.00/M	C3216X8R1E474K
	X8R	25	0.68µF	±10%	1.8	445-3433-1-ND	6.60	39.00	112.50	445-3433-2-ND	2,000	108.00/M	C3216X8R1E684K
	X8R	25	1.0µF	±10%	1.6	445-2517-1-ND	6.60	39.00	112.50	445-2517-2-ND	2,000	108.00/M	C3216X8R1E105K
1210	C0G (NP0)	630	3900pF	±5%	1.7	445-4157-1-ND	24.75	146.25	421.88	445-4157-2-ND	2,000	405.00/M	C3225C0G2J392J
	C0G (NP0)	630	4700pF	±5%	1.6	445-2352-1-ND	24.01	141.86	409.22	445-2352-2-ND	2,000	393.00/M	C3225C0G2J472J
	C0G (NP0)	630	5600pF	±5%	1.6	445-4158-1-ND	24.75	146.25	421.88	445-4158-2-ND	2,000	405.00/M	C3225C0G2J562J

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1210	C0G (NP0)	630	6800pF	±5%	2.0	445-2353-1-ND	24.01	141.86	409.22	445-2353-2-ND	1,000	393.00	C3225C0G2J682J
	C0G (NP0)	250	10000pF	±5%	1.6	445-2350-1-ND	32.01	189.15	545.63	445-2350-2-ND	2,000	524.00/M	C3225C0G2E103J
	C0G (NP0)	250	15000pF	±5%	2.0	445-2351-1-ND	32.01	189.15	545.63	445-2351-2-ND	1,000	524.00	C3225C0G2E153J
	C0G (NP0)	100	15000pF	±5%	1.25	445-2346-1-ND	24.01	141.86	409.22	445-2346-2-ND	2,000	393.00/M	C3225C0G2A153J
	C0G (NP0)	100	22000pF	±5%	1.6	445-2347-1-ND	24.01	141.86	409.22	445-2347-2-ND	2,000	393.00/M	C3225C0G2A223J
	C0G (NP0)	100	33000pF	±5%	2.0	445-2348-1-ND	32.01	189.15	545.63	445-2348-2-ND	1,000	524.00	C3225C0G2A333J
	C0G (NP0)	100	47000pF	±5%	2.3	445-2349-1-ND	32.01	189.15	545.63	445-2349-2-ND	1,000	524.00	C3225C0G2A473J
	C0G (NP0)	50	22000pF	±5%	1.25	445-2703-1-ND	22.00	130.00	375.00	445-2703-2-ND	2,000	360.00/M	C3225C0G1H223J
	C0G (NP0)	50	33000pF	±5%	1.25	445-2704-1-ND	27.50	162.50	468.75	445-2704-2-ND	2,000	450.00/M	C3225C0G1H333J
	C0G (NP0)	50	47000pF	±5%	2.0	445-2705-1-ND	27.50	162.50	468.75	445-2705-2-ND	1,000	450.00	C3225C0G1H473J
	C0G (NP0)	50	68000pF	±5%	2.0	445-2706-1-ND	33.00	195.00	562.50	445-2706-2-ND	1,000	540.00	C3225C0G1H683J
	C0G (NP0)	50	0.1µF	±5%	2.5	445-2702-1-ND	33.00	195.00	562.50	445-2702-2-ND	1,000	540.00	C3225C0G1H104J
	X7R	630	47000pF	±10%	2.0	445-2297-1-ND	8.80	52.00	150.00	445-2297-2-ND	1,000	144.00	C3225X7R2J473K
	X7R	630	47000pF	±20%	2.0	445-4503-1-ND	8.80	52.00	150.00	445-4503-2-ND	1,000	144.00	C3225X7R2J473M
	X7R	630	68000pF	±10%	2.0	445-4504-1-ND	13.20	78.00	225.00	445-4504-2-ND	1,000	216.00	C3225X7R2J683K
	X7R	630	68000pF	±20%	2.0	445-4505-1-ND	13.20	78.00	225.00	445-4505-2-ND	1,000	216.00	C3225X7R2J683M
	X7R	250	0.1µF	±10%	2.0	445-2295-1-ND	5.72	33.80	97.50	445-2295-2-ND	1,000	94.00	C3225X7R2E104K
	X7R	250	0.22µF	±10%	2.0	445-2296-1-ND	6.38	37.70	108.75	445-2296-2-ND	1,000	104.00	C3225X7R2E224K
	X7R	250	0.1µF	±20%	2.0	445-4499-1-ND	5.72	33.80	97.50	445-4499-2-ND	1,000	93.60	C3225X7R2E104M
	X7R	250	0.15µF	±10%	2.0	445-4500-1-ND	7.70	45.50	131.25	445-4500-2-ND	1,000	126.00	C3225X7R2E154K
	X7R	250	0.15µF	±20%	2.0	445-4501-1-ND	7.70	45.50	131.25	445-4501-2-ND	1,000	126.00	C3225X7R2E154M
	X7R	250	0.22µF	±20%	2.0	445-4502-1-ND	6.38	37.70	108.75	445-4502-2-ND	1,000	104.40	C3225X7R2E224M
	X7R	100	0.47µF	±20%	2.0	445-1395-1-ND	9.35	55.25	159.38	445-1395-2-ND	1,000	153.00	C3225X7R2A474M
	X7R	100	0.47µF	±10%	2.0	445-2293-1-ND	11.00	65.00	187.50	445-2293-2-ND	1,000	180.00	C3225X7R2A474K
	X7R	100	1.0µF	±20%	2.0	445-1429-1-ND	10.45	61.75	178.13	445-1429-2-ND	1,000	171.00	C3225X7R2A105M
	X7R	100	1.0µF	±10%	2.0	445-2294-1-ND	11.00	65.00	187.50	445-2294-2-ND	1,000	180.00	C3225X7R2A105K
	X7R	100	0.33µF	±10%	2.0	445-4493-1-ND	9.35	55.25	159.38	445-4493-2-ND	1,000	153.00	C3225X7R2A334K
	X7R	100	0.33µF	±20%	2.0	445-4494-1-ND	9.35	55.25	159.38	445-4494-2-ND	1,000	153.00	C3225X7R2A334M
	X7R	100	0.68µF	±10%	1.6	445-4495-1-ND	12.10	71.50	206.25	445-4495-2-ND	2,000	198.00/M	C3225X7R2A684K
	X7R	100	0.68µF	±20%	1.6	445-4496-1-ND	12.10	71.50	206.25	445-4496-2-ND	2,000	198.00/M	C3225X7R2A684M
	X7R	100	2.2µF	±10%	2.3	445-4497-1-ND	12.10	71.50	206.25	445-4497-2-ND	1,000	198.00	C3225X7R2A225K
	X7R	100	2.2µF	±20%	2.3	445-4498-1-ND	12.10	71.50	206.25	445-4498-2-ND	1,000	198.00	C3225X7R2A225M
	X7R	50	1.0µF	±10%	1.6	445-1430-1-ND	4.84	28.60	82.50	445-1430-2-ND	1,000	79.20	C3225X7R1H105K/2.00
	X7R	50	1.0µF	±10%	1.6	445-3931-1-ND	6.38	37.70	108.75	445-3931-2-ND	2,000	104.00/M	C3225X7R1H105K/1.6
	X7R	50	1.0µF	±20%	1.6	445-1396-1-ND	4.84	28.60	82.50	445-1396-2-ND	1,000	79.20	C3225X7R1H105M/2.00
	X7R	50	1.0µF	±20%	1.6	445-3932-1-ND	6.38	37.70	108.75	445-3932-2-ND	2,000	104.00/M	C3225X7R1H105M/1.6
	X7R	50	1.5µF	±10%	2.0	445-3933-1-ND	8.25	48.75	140.63	445-3933-2-ND	1,000	135.00	C3225X7R1H155K
	X7R	50	1.5µF	±20%	2.0	445-3934-1-ND	8.25	48.75	140.63	445-3934-2-ND	1,000	135.00	C3225X7R1H155M
	X7R	50	2.2µF	±10%	2.0	445-1431-1-ND	9.90	58.50	168.75	445-1431-2-ND	1,000	162.00	C3225X7R1H225K/2.50
	X7R	50	2.2µF	±20%	2.0	445-3935-1-ND	9.90	58.50	168.75	445-3935-2-ND	1,000	162.00	C3225X7R1H225M/2.50
	X7R	50	3.3µF	±10%	2.5	445-3936-1-ND	14.85	87.75	253.13	445-3936-2-ND	1,000	243.00	C3225X7R1H335K
	X7R	50	3.3µF	±20%	2.5	445-1432-1-ND	14.85	87.75	253.13	445-1432-2-ND	1,000	243.00	C3225X7R1H335M
	X7R	25	2.2µF	±10%	1.15	445-3937-1-ND	5.06	29.90	86.25	445-3937-2-ND	2,000	83.00/M	C3225X7R1E225K
	X7R	25	2.2µF	±20%	1.15	445-1397-1-ND	9.24	54.60	157.50	445-1397-2-ND	1,000	151.20	C3225X7R1E225M/2.00
	X7R	25	3.3µF	±10%	1.6	445-3938-1-ND	5.94	35.10	101.25	445-3938-2-ND	2,000	97.00/M	C3225X7R1E335K
	X7R	25	3.3µF	±20%	1.6	445-3939-1-ND	5.94	35.10	101.25	445-3939-2-ND	2,000	97.00/M	C3225X7R1E335M
	X7R	25	4.7µF	±10%	2.0	445-1433-1-ND	5.94	35.10	101.25	445-1433-2-ND	1,000	97.20	C3225X7R1E475K
	X7R	25	4.7µF	±20%	2.0	445-1398-1-ND	5.94	35.10	101.25	445-1398-2-ND	1,000	97.20	C3225X7R1E475M
	X7R	25	6.8µF	±10%	2.0	445-3940-1-ND	11.55	68.25	196.88	445-3940-2-ND	1,000	189.00	C3225X7R1E685K/2.50
	X7R	25	6.8µF	±20%	2.0	445-3941-1-ND	11.55	68.25	196.88	445-3941-2-ND	1,000	189.00	C3225X7R1E685M/2.50
	X7R	25	10µF	±10%	2.5	445-3942-1-ND	12.10	71.50	206.25	445-3942-2-ND	1,000	198.00	C3225X7R1E106K
	X7R	25	10µF	±20%	2.5	445-1434-1-ND	12.10	71.50	206.25	445-1434-2-ND	1,000	198.00	C3225X7R1E106M
	X7R	16	4.7µF	±10%	1.6	445-1435-1-ND	19.38	114.54	330.41	—	—	—	C3225X7R1C475K
	X7R	16	10µF	±10%	2.0	445-3943-1-ND	7.26	42.90	123.75	445-3943-2-ND	1,000	119.00	C3225X7R1C106K
	X7R	16	10µF	±20%	2.0	445-1399-1-ND	7.92	46.80	135.00	445-1399-2-ND	1,000	129.60	C3225X7R1C106M
	X7R	16	15µF	±20%	2.5	445-3944-1-ND	14.85	87.75	253.13	445-3944-2-ND	1,000	243.00	C3225X7R1C156M
	X7R	16	22µF	±10%	2.5	445-3945-1-ND	14.85	87.75	253.13	445-3945-2-ND	1,000	243.00	C3225X7R1C226K
	X7R	16	22µF	±20%	2.5	445-3955-1-ND	14.85	87.75	253.13	445-3955-2-ND	1,000	243.00	C3225X7R1C226M
	X7S	100	3.3µF	±10%	2.0	445-5209-1-ND	16.50	97.50	281.25	445-5209-2-ND	1,000	270.00	C3225X7S2A335K
	X7S	100	3.3µF	±20%	2.0	445-5210-1-ND	16.50	97.50	281.25	445-5210-2-ND	1,000	270.00	C3225X7S2A335M
	X7S	50	10µF	±10%	2.5	445-4536-1-ND	24.20	143.00	412.50	445-4536-2-ND	1,000	396.00	C3225X7S1H106K
	X7S	50	10µF	±20%	2.5	445-4537-1-ND	22.00	130.00	375.00	445-4537-2-ND	1,000	360.00	C3225X7S1H106M
	X5R	25	10µF	±10%	2.5	445-3946-1-ND	9.90	58.50	168.75	445-3946-2-ND	1,000	162.00	C3225X5R1E106K
	X5R	25	10µF	±20%	2.5	445-3947-1-ND	9.24	54.60	157.50	445-3947-2-ND	1,000	151.00	C3225X5R1E106M
	X5R	16	10µF	±10%	2.0	445-3948-1-ND	7.92	46.80	135.00	445-3948-2-ND	1,000	130.00	C3225X5R1C106K
	X5R	16	10µF	±20%	2.0	445-1400-1-ND	7.92	46.80	135.00	445-1400-2-ND	1,000	129.60	C3225X5R1C106M
	X5R	16	22µF	±10%	2.5	445-3949-1-ND	14.08	83.20	240.00	445-3949-2-ND	1,000	230.00	C3225X5R1C226K
	X5R	16	22µF	±20%	2.5	445-1436-1-ND	13.86	81.90	236.25	445-1436-2-ND	1,000	226.80	C3225X5R1C226M
	X5R	10	10µF	±10%	2.0	445-1401-1-ND	6.93	40.95	118.13	445-1401-2-ND	1,000	113.40	C3225X5R1A106K
	X5R	10	10µF	±20%	2.0	445-1402-1-ND	6.93	40.95	118.13	445-1402-2-ND	1,000	113.40	C3225X5R1A106M
	X5R	10	15µF	±20%	2.0	445-3950-1-ND	9.90	58.50	168.75	445-3950-2-ND	1,000	162.00	C3225X5R1A156M
	X5R	10	22µF	±20%	2.3	445-1403-1-ND	10.45	61.75	178.13	445-1403-2-ND	1,000	171.00	C3225X5R1A226M
	X5R	6.3	22µF	±10%	2.0	445-3951-1-ND	13.75	81.25	234.38	445-3951-2-ND	1,000	225.00	C3225X5R0J226K/2.00
	X5R	6.3	22µF	±20%	2.0	445-1595-1-ND	10.45	61.75	178.13	445-1595-2-ND	1,000	171.00	C3225X5R0J226M/2.00
	X5R	6.3	33µF	±20%	2.0	445-3953-1-ND	19.80	117.00	337.50	445-3953-2-ND	1,000	324.00	C3225X5R0J336M/2.50
	X5R	6.3	47µF	±20%	2.5	445-1405-1-ND	16.50	97.50	281.25	445-1405-2-ND	1,000	270.00	C3225X5R0J476M
	X5R	6.3	68µF	±20%	2.0	445-3954-1-ND	57.75	341.25	984.38	445-3954-2-ND	1,000	945.00	C3225X5R0J686M
	X5R	6.3	100µF	±20%	2.5	445-1437-1-ND	49.50	292.50	843.75	445-1437-2-ND	1,000	810.00	C3225X5R0J107M
	Y5V	50	4.7µF	+80/-20%	2.3	445-3480-1-ND	4.95	29.25	84.38	445-3480-2-ND	2,000	81.00/M	C3225Y5V1H475Z/1.60
	Y5V	50	10µF	+80/-20%	2.3	445-3479-1-ND	8.25	48.75	140.63	445-3479-2-ND	2,000	135.00/M	C3225Y5V1H106Z
	Y5V	25	10µF	+80/-20%	1.3	445-3477-1-ND	4.18	24.70	71.25	445-3477-2-ND	2,000	68.00/M	C3225Y5V1E106Z/1.30
	Y5V	25	10µF	+80/-20%	1.6	445-1598-1-ND	4.24	25.03	72.19	445-1598-2-ND	2,000	69.30/M	C3225Y5V1E106Z/1.60
	Y5V	25	22µF	+80/-20%	2.3	445-3478-1-ND	6.60	39.00	112.50	445-3478-2-ND	1,000	108.00	C3225Y5V1E226Z
	Y5V	16	10µF	+80/-20%	1.15	445-1597-1-ND	3.63	21.45	61.88	445-1597-2-ND	2,000	59.40/M	C3225Y5V1C106Z/1.15
	Y5V	16	10µF	+80/-20%	1.6	445-3473-1-ND	3.85	22.75	65.63	445-3473-2-ND	2,000	63.00/M	C3225Y5V1C106Z/1.60
	Y5V	16	22µF	+80/-20%	1.3	445-3474-1-ND	5.50	32.50	93.75	445-3474-2-ND	2,000	90.00/M	C3225Y5V1C226Z/1.30
	Y5V	16	22µF	+80/-20%	2.0	445-3475-1-ND	5.83	34.45	99.38	445-3475-2-ND	1,000	95.00	C3225Y5V1C226Z/2.00
	Y5V	16	47µF	+80/-20%	2.3	445-3476-1-ND	22.00	130.00	375.00	445-3476-2-ND	1,000	360.00	C3225Y5V1C476Z
	Y5V	10	22µF	+80/-20%	1.15	445-1596-1-ND	4.95	29.25	84.38	445-1596-2-ND	2,000	81.00/M	C3225Y5V1A226Z/1.15
	Y5V	10	47µF	+80/-20%	2.0	445-1409-1-ND	20.55	121.42	350.25	445-1409-2-ND	1,000	336.24	C3225Y5V1A476Z
	Y5V	6.3	100µF	+80/-20%	2.5	445-1410-1-ND	24.20	143.00	412.50	445-1410-2-ND	1,000	396.00	C3225Y5V0J107Z
	X8R	25	1.5µF	±10%	1.6	445-3438-1-ND	13.20	78.00	225.00	445-3438-2-ND	2,000	216.00/M	C3225X8R1E155K
	X8R	25	2.2µF	±10%	2.0	445-2523-1-ND	13.20	78.00	225.00	445-2523-2-ND	1,000	216.00	C3225X8R1E225K
	X8R	25	3.3µF	±10%	2.5	445-2524-1-ND	13.20	78.00	225.00	445-2524-2-ND	1,000	216.00	C3225X8R1E335K
1808	C0G (NP0)	3000	10pF	±1pF	0.85	445-2363-1-ND	15.68	92.63	267.19	445-2363-2-ND	1,000	257.00	C4520C0G3F100F
	C0G (NP0)	3000	12pF	±10%	0.85	445-2364-1-ND	15.68	92.63	267.19	445-2364-2-ND	1,000	257.00	C4520C0G3F120K
	C0G (NP0)	3000	15pF	±10%	1.1	445-2365-1-ND	15.68	92.63	267.19	445-2365-2-ND	1,000	257.00	C4520C0G3F150K
	C0G (NP0)	3000	18pF	±10%	1.1	445-2366-1-ND	15.68	92.63	267.19	445-2366-2-ND	1,000	257.00	C4520C0G3F180K
	C0G (NP0)	3000	22pF	±10%	1.1	445-2367-1-ND	15.68	92.63	267.19	445-2367-2-ND	1,000	257.00	C4520C0G3F220K
	C0G (NP0)	3000	27pF	±10%	1.6	445-2368-1-ND	15.68	92.63	267.19	445-2368-2-ND	1,000	257.00	C4520C0G3F270K
	C0G (NP0)	3000	33pF	±10%	1.6	445-2369-1-ND	15.68	92.63	267.19	445-2369-2-ND	1,000	257.00	C4520C0G3F330K
	C0G (NP0)	3000	39pF	±10%	1.6	445-2370-1-ND	15.68	92.63	267.19	445-2370-2-ND	1,000	257.00	C4520C0G3F390K
	C0G (NP0)	3000	47pF	±10%	1.6	445-2371-1-ND	15.68	92.63	267.19	445-2371-2-ND	1,000	257.00	C4520C0G3F470K
	C0G (NP0)	3000	56pF	±10%	2.0	445-2372-1-ND	15.68	92.63	267.19	445-2372-2-ND	1,000	257.00	C4520C0G3F560K

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
1808	C0G (NP0)	3000	68pF	±10%	2.0	445-2373-1-ND	15.68	92.63	267.19	445-2373-2-ND	1,000	257.00	C4520C0G3F680K
	C0G (NP0)	3000	82pF	±10%	2.0	445-2374-1-ND	15.68	92.63	267.19	445-2374-2-ND	1,000	257.00	C4520C0G3F820K
	C0G (NP0)	3000	100pF	±10%	2.0	445-2375-1-ND	15.68	92.63	267.19	445-2375-2-ND	1,000	257.00	C4520C0G3F101K
	X7R	2000	470pF	±10%	1.3	445-2385-1-ND	18.03	106.52	307.28	445-2385-2-ND	1,000	295.00	C4520X7R3D471K
	X7R	2000	1000pF	±10%	1.3	445-2386-1-ND	18.03	106.52	307.28	445-2386-2-ND	1,000	295.00	C4520X7R3D102K
	X7R	1000	470pF	±10%	1.3	445-2383-1-ND	18.03	106.52	307.28	445-2383-2-ND	1,000	295.00	C4520X7R3A471K
	X7R	1000	1000pF	±10%	1.3	445-2384-1-ND	18.03	106.52	307.28	445-2384-2-ND	1,000	295.00	C4520X7R3A102K
1812	C0G (NP0)	3000	100pF	±10%	1.6	445-2376-1-ND	19.59	115.78	333.99	445-2376-2-ND	1,000	321.00	C4532C0G3F101K
	C0G (NP0)	3000	120pF	±10%	1.6	445-2377-1-ND	19.59	115.78	333.99	445-2377-2-ND	1,000	321.00	C4532C0G3F121K
	C0G (NP0)	3000	150pF	±10%	1.6	445-2378-1-ND	19.59	115.78	333.99	445-2378-2-ND	1,000	321.00	C4532C0G3F151K
	C0G (NP0)	3000	180pF	±10%	1.6	445-2379-1-ND	19.59	115.78	333.99	445-2379-2-ND	1,000	321.00	C4532C0G3F181K
	C0G (NP0)	3000	220pF	±10%	2.0	445-2380-1-ND	20.38	120.41	347.34	445-2380-2-ND	1,000	333.00	C4532C0G3F221K
	C0G (NP0)	3000	270pF	±10%	2.3	445-2381-1-ND	23.51	138.94	—	445-2381-2-ND	500	192.50	C4532C0G3F271K
	C0G (NP0)	3000	330pF	±10%	2.5	445-2382-1-ND	20.90	123.50	356.25	445-2382-2-ND	1,000	266.00	C4532C0G3F331K
	C0G (NP0)	630	8200pF	±5%	1.6	445-4159-1-ND	66.00	390.00	1125.00	445-4159-2-ND	1,000	1080.00	C4532C0G2J822J
	C0G (NP0)	630	10000pF	±5%	1.6	445-2360-1-ND	64.02	378.30	1091.25	445-2360-2-ND	1,000	1048.00	C4532C0G2J103J
	C0G (NP0)	630	15000pF	±5%	2.5	445-2361-1-ND	64.02	378.30	—	445-2361-2-ND	500	524.00	C4532C0G2J153J
	C0G (NP0)	630	22000pF	±5%	3.2	445-2362-1-ND	64.02	378.30	—	445-2362-2-ND	500	524.00	C4532C0G2J223J
	C0G (NP0)	250	22000pF	±5%	1.6	445-2357-1-ND	56.02	331.01	954.84	445-2357-2-ND	1,000	917.00	C4532C0G2E223J
	C0G (NP0)	250	33000pF	±5%	2.0	445-2358-1-ND	56.02	331.01	954.84	445-2358-2-ND	1,000	917.00	C4532C0G2E333J
	C0G (NP0)	250	47000pF	±5%	3.2	445-2359-1-ND	56.02	331.01	—	445-2359-2-ND	500	458.50	C4532C0G2E473J
	C0G (NP0)	100	47000pF	±5%	2.0	445-2354-1-ND	40.01	236.44	682.03	445-2354-2-ND	1,000	655.00	C4532C0G2A473J
	C0G (NP0)	100	68000pF	±5%	2.5	445-2355-1-ND	48.02	283.73	—	445-2355-2-ND	500	393.00	C4532C0G2A683J
	C0G (NP0)	100	0.1µF	±5%	3.2	445-2356-1-ND	48.02	283.73	—	445-2356-2-ND	500	393.00	C4532C0G2A104J
	C0G (NP0)	50	47000pF	±5%	1.6	445-2710-1-ND	33.00	195.00	562.50	445-2710-2-ND	1,000	540.00	C4532C0G1H473J
	C0G (NP0)	50	68000pF	±5%	1.6	445-2711-1-ND	44.00	260.00	750.00	445-2711-2-ND	1,000	720.00	C4532C0G1H683J
	C0G (NP0)	50	0.1µF	±5%	2.0	445-2707-1-ND	41.25	243.75	703.13	445-2707-2-ND	1,000	675.00	C4532C0G1H104J
	C0G (NP0)	50	0.15µF	±5%	2.5	445-2708-1-ND	49.50	292.50	—	445-2708-2-ND	500	405.00	C4532C0G1H154J
	C0G (NP0)	50	0.22µF	±5%	3.2	445-2709-1-ND	49.50	292.50	—	445-2709-2-ND	500	405.00	C4532C0G1H224J
	X7R	2000	2200pF	±10%	1.3	445-2389-1-ND	20.63	121.88	351.56	445-2389-2-ND	1,000	338.00	C4532X7R3D222K
	X7R	1000	4700pF	±10%	1.6	445-2387-1-ND	14.30	84.50	243.75	445-2387-2-ND	1,000	234.00	C4532X7R3A472K
	X7R	1000	10000pF	±10%	2.0	445-2388-1-ND	14.85	87.75	253.13	445-2388-2-ND	1,000	243.00	C4532X7R3A103K
	X7R	630	68000pF	±10%	1.6	445-4517-1-ND	13.20	78.00	225.00	445-4517-2-ND	1,000	216.00	C4532X7R2J683K
	X7R	630	68000pF	±20%	1.6	445-4518-1-ND	13.20	78.00	225.00	445-4518-2-ND	1,000	216.00	C4532X7R2J683M
	X7R	630	0.1µF	±10%	2.3	445-2300-1-ND	13.20	78.00	—	445-2300-2-ND	500	108.00	C4532X7R2J104K
	X7R	630	0.1µF	±20%	2.3	445-4519-1-ND	13.20	78.00	—	445-4519-2-ND	500	108.00	C4532X7R2J104M
	X7R	250	0.15µF	±10%	1.6	445-4511-1-ND	14.30	84.50	243.75	445-4511-2-ND	1,000	234.00	C4532X7R2E154K
	X7R	250	0.15µF	±20%	1.6	445-4512-1-ND	14.30	84.50	243.75	445-4512-2-ND	1,000	234.00	C4532X7R2E154M
	X7R	250	0.22µF	±10%	2.3	445-2298-1-ND	12.65	74.75	—	445-2298-2-ND	500	103.50	C4532X7R2E224K
	X7R	250	0.22µF	±20%	2.3	445-4513-1-ND	12.65	74.75	—	445-4513-2-ND	500	103.50	C4532X7R2E224M
	X7R	250	0.33µF	±10%	2.3	445-4514-1-ND	13.20	78.00	—	445-4514-2-ND	500	108.00	C4532X7R2E334K
	X7R	250	0.33µF	±20%	2.3	445-4515-1-ND	13.20	78.00	—	445-4515-2-ND	500	108.00	C4532X7R2E334M
	X7R	250	0.47µF	±10%	2.3	445-2299-1-ND	15.40	91.00	—	445-2299-2-ND	500	126.00	C4532X7R2E474K
	X7R	250	0.47µF	±20%	2.3	445-4516-1-ND	15.40	91.00	—	445-4516-2-ND	500	126.00	C4532X7R2E474M
	X7R	100	0.68µF	±10%	2.3	445-4506-1-ND	22.00	130.00	—	445-4506-2-ND	500	180.00	C4532X7R2A684K
	X7R	100	0.68µF	±20%	2.3	445-4507-1-ND	22.00	130.00	—	445-4507-2-ND	500	180.00	C4532X7R2A684M
	X7R	100	1.0µF	±10%	2.3	445-1438-1-ND	20.90	123.50	—	445-1438-2-ND	500	171.00	C4532X7R2A105K
	X7R	100	1.0µF	±20%	2.3	445-1411-1-ND	19.80	117.00	—	445-1411-2-ND	500	162.00	C4532X7R2A105M
	X7R	100	1.5µF	±10%	2.3	445-4508-1-ND	30.80	182.00	—	445-4508-2-ND	500	252.00	C4532X7R2A155K
	X7R	100	1.5µF	±20%	2.3	445-4509-1-ND	30.25	178.75	—	445-4509-2-ND	500	247.50	C4532X7R2A155M
	X7R	100	2.2µF	±10%	2.3	445-4510-1-ND	22.00	130.00	—	445-4510-2-ND	500	180.00	C4532X7R2A225K
	X7R	100	2.2µF	±20%	2.3	445-1439-1-ND	22.00	130.00	—	445-1439-2-ND	500	180.00	C4532X7R2A225M
	X7R	50	1.0µF	±10%	1.7	445-3913-1-ND	15.40	91.00	262.50	445-3913-2-ND	1,000	252.00	C4532X7R1H105K
	X7R	50	1.0µF	±20%	1.7	445-3914-1-ND	14.30	84.50	243.75	445-3914-2-ND	1,000	234.00	C4532X7R1H105M
	X7R	50	2.2µF	±10%	1.6	445-3915-1-ND	23.60	139.43	402.19	445-3915-2-ND	1,000	386.00	C4532X7R1H225K
	X7R	50	2.2µF	±20%	1.6	445-1447-1-ND	21.45	126.75	365.63	445-1447-2-ND	1,000	351.00	C4532X7R1H225M
	X7R	50	3.3µF	±10%	2.0	445-3916-1-ND	24.20	143.00	412.50	445-3916-2-ND	1,000	396.00	C4532X7R1H335K
	X7R	50	3.3µF	±20%	2.0	445-3917-1-ND	23.10	136.50	393.75	445-3917-2-ND	1,000	378.00	C4532X7R1H335M
	X7R	50	4.7µF	±10%	2.3	445-3918-1-ND	27.23	160.88	464.06	445-3918-2-ND	1,000	446.00	C4532X7R1H475K/2.00
	X7R	50	4.7µF	±20%	2.3	445-1448-1-ND	24.75	146.25	421.88	445-1448-2-ND	1,000	405.00	C4532X7R1H475M/2.00
	X7R	50	6.8µF	±10%	2.5	445-3919-1-ND	32.67	193.05	—	445-3919-2-ND	500	267.50	C4532X7R1H685K
	X7R	50	6.8µF	±20%	2.5	445-1449-1-ND	29.70	175.50	—	445-1449-2-ND	500	243.00	C4532X7R1H685M
	X7R	25	4.7µF	±20%	1.6	445-1446-1-ND	22.28	131.63	—	445-1446-2-ND	1,000	364.50	C4532X7R1E475M
	X7R	25	10µF	±10%	2.5	445-3920-1-ND	27.23	160.88	—	445-3920-2-ND	500	223.00	C4532X7R1E106K
	X7R	25	10µF	±20%	2.5	445-1445-1-ND	24.75	146.25	—	445-1445-2-ND	500	202.50	C4532X7R1E106M
	X7R	25	15µF	±20%	2.5	445-3921-1-ND	29.70	175.50	—	445-3921-2-ND	500	243.00	C4532X7R1E156M/2.80
	X7R	25	22µF	±20%	2.5	445-1607-1-ND	33.00	195.00	—	445-1607-2-ND	500	270.00	C4532X7R1E226M
	X7R	16	10µF	±10%	2.5	445-3922-1-ND	26.40	156.00	—	445-3922-2-ND	500	216.00	C4532X7R1C106K
	X7R	16	10µF	±20%	2.6	445-3923-1-ND	26.40	156.00	—	445-3923-2-ND	500	216.00	C4532X7R1C106M
	X7R	16	22µF	±20%	2.5	445-1442-1-ND	29.70	175.50	—	445-1442-2-ND	500	243.00	C4532X7R1C226M/2.30
	X7R	16	33µF	±20%	2.5	445-3924-1-ND	36.30	214.50	—	445-3924-2-ND	500	297.00	C4532X7R1C336M
	X7S	100	4.7µF	±20%	2.3	445-5211-1-ND	30.25	178.75	—	445-5211-2-ND	500	247.50	C4532X7S2A475M
	X5R	25	10µF	±10%	2.5	445-3925-1-ND	27.23	160.88	—	445-3925-2-ND	500	223.00	C4532X5R1E106K
	X5R	25	10µF	±20%	2.5	445-3926-1-ND	24.75	146.25	—	445-3926-2-ND	500	202.50	C4532X5R1E106M
	X5R	25	15µF	±20%	2.8	445-3927-1-ND	29.70	175.50	—	445-3927-2-ND	500	243.00	C4532X5R1E156M/2.80
	X5R	25	22µF	±20%	2.5	445-1444-1-ND	33.00	195.00	—	445-1444-2-ND	500	270.00	C4532X5R1E226M
	X5R	16	22µF	±20%	2.5	445-3928-1-ND	29.70	175.50	—	445-3928-2-ND	500	243.00	C4532X5R1C226M/2.30
	X5R	16	33µF	±20%	2.5	445-1443-1-ND	33.00	195.00	—	445-1443-2-ND	500	270.00	C4532X5R1C336M
	X5R	10	22µF	±20%	2.0	445-1412-1-ND	19.80	117.00	—	445-1412-2-ND	500	162.00	C4532X5R1A226M
	X5R	10	33µF	±20%	2.0	445-1441-1-ND	33.00	195.00	—	445-1441-2-ND	500	270.00	C4532X5R1A336M
	X5R	10	47µF	±20%	2.8	445-1440-1-ND	46.20	273.00	—	445-1440-2-ND	500	378.00	C4532X5R1A476M
	X5R	6.3	47µF	±20%	2.5	445-3929-1-ND	46.20	273.00	—	445-3929-2-ND	500	378.00	C4532X5R0J476M
	X5R	6.3	68µF	±20%	2.8	445-3930-1-ND	66.00	390.00	—	445-3930-2-ND	500	540.00	C4532X5R0J686M
	X5R	6.3	100µF	±20%	2.8	445-1413-1-ND	57.75	341.25	—	445-1413-2-ND	500	472.50	C4532X5R0J107M
	Y5V	50	10µF	+80/-20%	2.5	445-3483-1-ND	15.68	92.63	267.19	445-3483-2-ND	1,000	257.00	C4532Y5V1H106Z
	Y5V	25	22µF	+80/-20%	2.5	445-3482-1-ND	30.25	178.75	515.63	445-3482-2-ND	1,000	495.00	C4532Y5V1E226Z
	Y5V	16	47µF	+80/-20%	2.5	445-3481-1-ND	30.25	178.75	—	445-3481-2-ND	500	247.50	C4532Y5V1C476Z
	Y5V	10	100µF	+80/-20%	2.5	445-1414-1-ND	46.20	273.00	—	445-1414-2-ND	500	378.00	C4532Y5V1A107Z
2220	X7R	630	0.15µF	±10%	1.6	445-4533-1-ND	27.50	162.50	468.75	445-4533-2-ND	1,000	450.00	C5750X7R2J154K
	X7R	630	0.15µF	±20%	1.6	445-4534-1-ND	27.50	162.50	468.75	445-4534-2-ND	1,000	450.00	C5750X7R2J154M
	X7R	630	0.22µF	±20%	2.3	445-4535-1-ND	27.50	162.50	—	445-4535-2-ND	500	225.00	C5750X7R2J224M
	X7R	630	0.22µF	±10%	2.3	445-2305-1-ND	27.50	162.50	—	445-2305-2-ND	500	225.00	C5750X7R2J224K
	X7R	250	0.33µF	±10%	1.6	445-4527-1-ND	27.50	162.50	468.75	445-4527-2-ND	1,000	450.00	C5750X7R2E334K
	X7R	250	0.33µF	±20%	1.6	445-4528-1-ND	27.50	162.50	468.75	445-4528-2-ND	1,000	450.00	C5750X7R2E334M
	X7R	250	0.47µF	±10%	2.3	445-2303-1-ND	27.50	162.50	—	445-2303-2-ND	500	225.00	C5750X7R2E474K
	X7R	250	0.47µF	±20%	2.3	445-4529-1-ND	27.50	162.50	—	445-4529-2-ND	500	225.00	C5750X7R2E474M
	X7R	250	0.68µF	±10%	2.3	445-4530-1-ND	55.00	325.00	—	445-4530-2-ND	500	450.00	C5750X7R2E684K
	X7R	250	0.68µF	±20%	2.3	445-4531-1-ND	55.00	325.00	—	445-4531-2-ND	500	450.00	C5750X7R2E684M
	X7R	250	1.0µF	±10%	2.3	445-2304-1-ND	27.50	162.50	—	445-2304-2-ND	500	225.00	C5750X7R2E105K
	X7R	250	1.0µF	±20%	2.3	445-4532-1-ND	27.50	162.50	—	445-4532-2-ND	500	225.00	C5750X7R2E105M
	X7R	100	1.0µF	±10%	2.3	445-2301-1-ND	39.60	234.00	—	445-2301-2-ND	500	324.00	C5750X7R2A105K
	X7R	100	1.0µF	±20%	2.3	445-4520-1-ND	38.50	227.50	—	445-4520-2-ND	500	315.00	C5750X7R2A105M
	X7R	100	1.5µF	±10%	2.3	445-4521-1-ND	52.25	308.75	—	445-4521-2-ND	500	427.50	C5750X7R2A155K
	X7R	100	1.5µF	±20%	2.3	445-4522-1-ND	52.25	308.75	—	445-4522-2-ND	500	427.50	C5750X7R2A155M
	X7R	100	2.2µF	±10%	2.3	445-4523-1-ND	47.30	279.50	—	445-4523-2-ND	500	387.00	C5750X7R2A225K

(Continued)

TDK Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
2220	X7R	100	2.2µF	±20%	2.3	445-2302-1-ND	47.30	279.50	—	445-2302-2-ND	500	387.00	C5750X7R2A225M
	X7R	100	3.3µF	±10%	2.3	445-4524-1-ND	66.00	390.00	—	445-4524-2-ND	500	540.00	C5750X7R2A335K
	X7R	100	3.3µF	±20%	2.3	445-4525-1-ND	55.00	325.00	—	445-4525-2-ND	500	450.00	C5750X7R2A335M
	X7R	100	4.7µF	±10%	2.3	445-4526-1-ND	66.00	390.00	—	445-4526-2-ND	500	540.00	C5750X7R2A475K
	X7R	100	4.7µF	±20%	2.3	445-1450-1-ND	55.00	325.00	—	445-1450-2-ND	500	450.00	C5750X7R2A475M
	X7R	50	4.7µF	±10%	2.0	445-3488-1-ND	52.80	312.00	—	445-3488-2-ND	500	432.00	C5750X7R1H475K
	X7R	50	4.7µF	±20%	2.0	445-3489-1-ND	49.50	292.50	—	445-3489-2-ND	500	405.00	C5750X7R1H475M
	X7R	50	6.8µF	±10%	2.5	445-3490-1-ND	55.00	325.00	—	445-3490-2-ND	500	450.00	C5750X7R1H685K
	X7R	50	6.8µF	±20%	2.5	445-3491-1-ND	49.50	292.50	—	445-3491-2-ND	500	405.00	C5750X7R1H685M
	X7R	50	10µF	±10%	2.3	445-3492-1-ND	50.05	295.75	—	445-3492-2-ND	500	409.50	C5750X7R1H106K
	X7R	50	10µF	±20%	2.3	445-1454-1-ND	49.50	292.50	—	445-1454-2-ND	500	405.00	C5750X7R1H106M
	X7R	25	10µF	±20%	2.0	445-3493-1-ND	49.50	292.50	—	445-3493-2-ND	500	405.00	C5750X7R1E106M
	X7R	25	15µF	±20%	2.3	445-3494-1-ND	51.70	305.50	—	445-3494-2-ND	500	423.00	C5750X7R1E156M
	X7R	25	22µF	±20%	2.5	445-1453-1-ND	66.00	390.00	—	445-1453-2-ND	500	540.00	C5750X7R1E226M
	X7R	16	22µF	±20%	2.3	445-3495-1-ND	55.00	325.00	—	445-3495-2-ND	500	450.00	C5750X7R1C226M
	X7R	16	47µF	±20%	2.3	445-3496-1-ND	66.00	390.00	—	445-3496-2-ND	500	540.00	C5750X7R1C476M
	X7S	100	10µF	±20%	2.3	445-5212-1-ND	66.00	390.00	—	445-5212-2-ND	500	540.00	C5750X7S2A106M
	X5R	50	10µF	±10%	2.3	445-3497-1-ND	50.05	295.75	—	445-3497-2-ND	500	409.50	C5750X5R1H106K
	X5R	50	10µF	±20%	2.3	445-3498-1-ND	49.50	292.50	—	445-3498-2-ND	500	405.00	C5750X5R1H106M
	X5R	25	22µF	±20%	2.5	445-3499-1-ND	66.00	390.00	—	445-3499-2-ND	500	540.00	C5750X5R1E226M
	X5R	16	33µF	±20%	2.0	445-3500-1-ND	66.00	390.00	—	445-3500-2-ND	500	540.00	C5750X5R1C336M
	X5R	16	47µF	±20%	2.3	445-1452-1-ND	66.00	390.00	—	445-1452-2-ND	500	540.00	C5750X5R1C476M
	X5R	10	68µF	±20%	2.3	445-1451-1-ND	82.50	487.50	—	445-1451-2-ND	500	675.00	C5750X5R1A686M
	X5R	6.3	100µF	±20%	2.8	445-3501-1-ND	66.00	390.00	—	445-3501-2-ND	500	540.00	C5750X5R0J107M
	Y5V	50	22µF	+80/-20%	2.0	445-3487-1-ND	49.50	292.50	—	445-3487-2-ND	500	405.00	C5750Y5V1H226Z
	Y5V	25	47µF	+80/-20%	2.0	445-3486-1-ND	49.50	292.50	—	445-3486-2-ND	500	405.00	C5750Y5V1E476Z
	Y5V	16	100µF	+80/-20%	2.5	445-3485-1-ND	59.40	351.00	—	445-3485-2-ND	500	486.00	C5750Y5V1C107Z
	Y5V	10	100µF	+80/-20%	2.3	445-3484-1-ND	57.75	341.25	—	445-3484-2-ND	500	472.50	C5750Y5V1A107Z

NEW! Kits

445-5404-ND (HI-CV CAP 1001)	High Capacitance 10µF and larger Kit, 18 items x 5 pcs. = 90 pcs. (See Digi-Key website for values included)	**$59.85**
445-5405-ND (HI-CV CAP 1002)	High Capacitance 1µF ~ 10µF Kit, 18 items x 5 pcs. = 90 pcs. (See Digi-Key website for values included)	**$46.55**
445-5406-ND (HI-CV CAP 1003)	High Capacitance, Lower Voltage 6.3V ~ 16V Kit, 20 items x 5 pcs. = 100 pcs. (See Digi-Key website for values included)	**$53.20**
445-5407-ND (HI-CV CAP 1004)	High Capacitance, Higher Voltage 16V ~ 50V Kit, 16 items x 5 pcs. = 80 pcs. (See Digi-Key website for values included)	**$59.85**

CKG Series — 2-Chip Piled Multilayer Ceramic Capacitors

Features:
• No polarity • Twice the capacitance is obtainable on a single capacitor space • Unique construction provides high reliability • Metal caps absorb stress from thermal and mechanical shocks, ensuring excellent performance on aluminum circuit substrates • Low ESR and ESL promises excellent characteristics for high frequency switching power supply

Applications:
- Smoothing circuits, temperature variable applications
- Maintenance free power supplies, DC to DC converters and automotive

Operating Temperature:
- X7R and X7S: -55°C ~ 125°C
- X5R: -55°C ~ 85°C

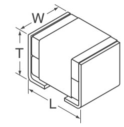

Series	Dimensions (mm) Maximum L	W	T
CKG32K	3.8	2.9	3.45
CKG45K	5.5	4.0	3.0
CKG45N	5.5	4.0	5.5
CKG57K	6.5	5.5	3.5
CKG57N	6.5	5.5	5.5

Series	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	TDK Part No.
CKG32K	X7R	25	4.7µF	±20%	445-5181-1-ND	82.50	487.50	1406.25	445-5181-2-ND	1350.00	CKG32KX7R1E475M
	X7R	25	10µF	±20%	445-5182-1-ND	82.50	487.50	1406.25	445-5182-2-ND	1350.00	CKG32KX7R1E106M
	X7R	50	1.0µF	±20%	445-5183-1-ND	82.50	487.50	1406.25	445-5183-2-ND	1350.00	CKG32KX7R1H105M
	X7R	100	.47µF	±20%	445-5184-1-ND	82.50	487.50	1406.25	445-5184-2-ND	1350.00	CKG32KX7R2A474M
	X7R	100	1.0µF	±20%	445-5185-1-ND	82.50	487.50	1406.25	445-5185-2-ND	1350.00	CKG32KX7R2A105M
	X7R	250	.10µF	±20%	445-5186-1-ND	82.50	487.50	1406.25	445-5186-2-ND	1350.00	CKG32KX7R2E104M
	X7R	250	.22µF	±20%	445-5187-1-ND	82.50	487.50	1406.25	445-5187-2-ND	1350.00	CKG32KX7R2E224M
	X7R	630	47000pF	±20%	445-5188-1-ND	82.50	487.50	1406.25	445-5188-2-ND	1350.00	CKG32KX7R2J473M
	X7S	50	10µF	±20%	445-5213-1-ND	82.50	487.50	1406.25	445-5213-2-ND	1350.00	CKG32KX7S1H106M
CKG45K	X7R	630	.10µF	±20%	445-4093-1-ND	93.50	552.50	1593.75	445-4093-2-ND	1530.00	CKG45KX7R2J104M
	X7R	250	.47µF	±20%	445-4092-1-ND	93.50	552.50	1593.75	445-4092-2-ND	1530.00	CKG45KX7R2E474M
	X7R	250	.22µF	±20%	445-4091-1-ND	93.50	552.50	1593.75	445-4091-2-ND	1530.00	CKG45KX7R2E224M
	X7R	100	2.2µF	±20%	445-4090-1-ND	93.50	552.50	1593.75	445-4090-2-ND	1530.00	CKG45KX7R2A225M
	X7R	100	1.0µF	±20%	445-4089-1-ND	93.50	552.50	1593.75	445-4089-2-ND	1530.00	CKG45KX7R2A105M
	X7R	50	4.7µF	±20%	445-4088-1-ND	99.00	585.00	1687.50	445-4088-2-ND	1620.00	CKG45KX7R1H475M
	X7R	50	3.3µF	±20%	445-4087-1-ND	93.50	552.50	1593.75	445-4087-2-ND	1530.00	CKG45KX7R1H335M
	X7R	25	4.7µF	±20%	445-4086-1-ND	93.50	552.50	1593.75	445-4086-2-ND	1530.00	CKG45KX7R1E475M
	X7R	16	22µF	±20%	445-4085-1-ND	104.50	617.50	1781.25	445-4085-2-ND	1710.00	CKG45KX7R1C226M
	X7R	16	10µF	±20%	445-4084-1-ND	99.00	585.00	1687.50	445-4084-2-ND	1620.00	CKG45KX7R1C106M
	X7S	100	4.7µF	±20%	445-5214-1-ND	99.00	585.00	1687.50	445-5214-2-ND	1620.00	CKG45KX7S2A475M
CKG45N	X7R	630	0.22µF	±20%	445-2396-1-ND	108.68	642.20	1852.50	445-2396-2-ND	1778.00	CKG45NX7R2J224M
	X7R	250	1.0µF	±20%	445-4096-1-ND	99.00	585.00	1687.50	445-4096-2-ND	1620.00	CKG45NX7R2E105M
	X7R	250	0.47µF	±20%	445-2395-1-ND	93.01	549.58	1585.31	445-2395-2-ND	1522.00	CKG45NX7R2E474M
	X7R	100	4.7µF	±20%	445-4095-1-ND	110.00	650.00	1875.00	445-4095-2-ND	1800.00	CKG45NX7R2A475M
	X7R	100	2.2µF	±20%	445-2394-1-ND	102.41	605.15	1745.63	445-2394-2-ND	1676.00	CKG45NX7R2A225M
	X7R	50	6.8µF	±20%	445-4094-1-ND	110.00	650.00	1875.00	445-4094-2-ND	1800.00	CKG45NX7R1H685M
	X7R	50	3.3µF	±20%	445-2393-1-ND	97.19	574.28	1656.56	445-2393-2-ND	1590.00	CKG45NX7R1H335M
	X7R	25	10µF	±20%	445-2392-1-ND	94.05	555.75	1603.13	445-2392-2-ND	1539.00	CKG45NX7R1E106M
	X7R	16	22µF	±20%	445-2391-1-ND	104.50	617.50	1781.25	445-2391-2-ND	1710.00	CKG45NX7R1C226M
	X5R	50	10µF	±20%	445-1660-1-ND	146.30	864.50	2493.75	445-1660-2-ND	2394.00	CKG45NX5R1H106M
	X5R	16	47µF	±20%	445-2390-1-ND	114.95	679.25	1959.38	445-2390-2-ND	1881.00	CKG45NX5R1C476M
	X7S	100	10µF	±20%	445-5215-1-ND	137.50	812.50	2343.75	445-5215-2-ND	2250.00	CKG45NX7S2A106M
CKG57K	X7R	630	.22µF	±20%	445-4108-1-ND	110.00	650.00	1875.00	445-4108-2-ND	1800.00	CKG57KX7R2J224M
	X7R	250	1.0µF	±20%	445-4106-1-ND	110.00	650.00	1875.00	445-4106-2-ND	1800.00	CKG57KX7R2E105M
	X7R	250	0.47µF	±20%	445-4107-1-ND	110.00	650.00	1875.00	445-4107-2-ND	1800.00	CKG57KX7R2E474M
	X7R	100	4.7µF	±20%	445-4105-1-ND	121.00	715.00	2062.50	445-4105-2-ND	1980.00	CKG57KX7R2A475M
	X7R	100	3.3µF	±20%	445-4104-1-ND	121.00	715.00	2062.50	445-4104-2-ND	1980.00	CKG57KX7R2A335M
	X7R	100	2.2µF	±20%	445-4103-1-ND	110.00	650.00	1875.00	445-4103-2-ND	1800.00	CKG57KX7R2A225M
	X7R	100	1.0µF	±20%	445-4102-1-ND	110.00	650.00	1875.00	445-4102-2-ND	1800.00	CKG57KX7R2A105M
	X7R	50	10µF	±20%	445-4101-1-ND	121.00	715.00	2062.50	445-4101-2-ND	1980.00	CKG57KX7R1H106M
	X7R	50	4.7µF	±20%	445-4100-1-ND	110.00	650.00	1875.00	445-4100-2-ND	1800.00	CKG57KX7R1H475M
	X7R	25	10µF	±20%	445-4098-1-ND	121.00	715.00	2062.50	445-4098-2-ND	1980.00	CKG57KX7R1E106M
	X7R	25	22µF	±20%	445-4099-1-ND	132.00	780.00	2250.00	445-4099-2-ND	2160.00	CKG57KX7R1E226M
	X7R	16	47µF	±20%	445-4097-1-ND	132.00	780.00	2250.00	445-4097-2-ND	2160.00	CKG57KX7R1C476M
	X7S	100	10µF	±20%	445-5216-1-ND	132.00	780.00	2250.00	445-5216-2-ND	2160.00	CKG57KX7S2A106M
CKG57N	X7R	630	0.47µF	±20%	445-2401-1-ND	104.50	617.50	1781.25	445-2401-2-ND	1710.00	CKG57NX7R2J474M
	X7R	250	1.0µF	±20%	445-2400-1-ND	109.73	648.38	1870.31	445-2400-2-ND	1796.00	CKG57NX7R2E105M
	X7R	250	2.2µF	±20%	445-4110-1-ND	132.00	780.00	2250.00	445-4110-2-ND	2160.00	CKG57NX7R2E225M
	X7R	100	2.2µF	±20%	445-1658-1-ND	125.40	741.00	2137.50	445-1658-2-ND	2052.00	CKG57NX7R2A225M
	X7R	100	4.7µF	±20%	445-1659-1-ND	133.24	787.31	2271.09	445-1659-2-ND	2180.25	CKG57NX7R2A475M
	X7R	100	10µF	±20%	445-4109-1-ND	165.00	975.00	2812.50	445-4109-2-ND	2700.00	CKG57NX7R2A106M
	X7R	50	10µF	±20%	445-2399-1-ND	114.95	679.25	1959.38	445-2399-2-ND	1881.00	CKG57NX7R1H106M
	X7R	25	22µF	±20%	445-2398-1-ND	114.95	679.25	1959.38	445-2398-2-ND	1881.00	CKG57NX7R1E226M
	X7R	16	33µF	±20%	445-2397-1-ND	125.40	741.00	2137.50	445-2397-2-ND	2052.00	CKG57NX7R1C336M
	X7S	100	22µF	±20%	445-5217-1-ND	165.00	975.00	2812.50	445-5217-2-ND	2700.00	CKG57NX7S2A226M
	X5R	50	22µF	±20%	445-1655-1-ND	133.76	790.40	2280.00	445-1655-2-ND	2188.80	CKG57NX5R1H226M
	X5R	25	47µF	±20%	445-1657-1-ND	154.66	913.90	2636.25	445-1657-2-ND	2530.80	CKG57NX5R1E476M
	X5R	16	100µF	±20%	445-1656-1-ND	177.65	1049.75	3028.13	445-1656-2-ND	2907.00	CKG57NX5R1C107M

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK

CKD Series — 3-Terminal Feed Through Multilayer Ceramic Chip Capacitors

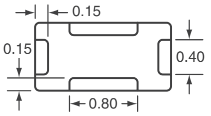

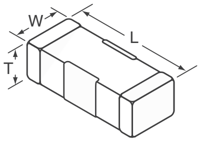

Features:

- Small low-cost filters used for meeting EMC requirements • Can be used up to even higher frequencies due to low parasitic inductance • Optimized for use as a noise bypass capacitors for signal and power source circuits

Applications:

- For digital and analog signal line noise bypassing signal line

Series (Case Size)	WV DC	Capacitance	Tolerance (%)	Dimensions – mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
				L	W	T		10	100	500		Qty.	Pricing	
Signal Line														
CKD510JB (0805)	50	22pF	+50, -20	2.00	1.25	0.85	445-3011-1-ND	4.40	26.00	75.00	445-3011-2-ND	4,000	72.00/M	CKD510JB1H220S
	50	47pF	+50, -20	2.00	1.25	0.85	445-3012-1-ND	4.40	26.00	75.00	445-3012-2-ND	4,000	72.00/M	CKD510JB1H470S
	50	100pF	+50, -20	2.00	1.25	0.85	445-3013-1-ND	4.40	26.00	75.00	445-3013-2-ND	4,000	72.00/M	CKD510JB1H101S
	50	220pF	+50, -20	2.00	1.25	0.85	445-3014-1-ND	4.40	26.00	75.00	445-3014-2-ND	4,000	72.00/M	CKD510JB1H221S
	50	470pF	+50, -20	2.00	1.25	0.85	445-3015-1-ND	4.40	26.00	75.00	445-3015-2-ND	4,000	72.00/M	CKD510JB1H471S
	50	1000pF	+50, -20	2.00	1.25	0.85	445-3016-1-ND	4.40	26.00	75.00	445-3016-2-ND	4,000	72.00/M	CKD510JB1H102S
	50	2200pF	+50, -20	2.00	1.25	0.85	445-3017-1-ND	4.40	26.00	75.00	445-3017-2-ND	4,000	72.00/M	CKD510JB1H222S
	50	4700pF	+50, -20	2.00	1.25	0.85	445-3018-1-ND	4.40	26.00	75.00	445-3018-2-ND	4,000	72.00/M	CKD510JB1H472S
CKD110JB (1205)	25	22pF	+50, -20	3.20	1.25	0.85	445-2999-1-ND	4.95	29.25	84.38	445-2999-2-ND	4,000	81.00/M	CKD110JB1E220S
	25	47pF	+50, -20	3.20	1.25	0.85	445-3000-1-ND	4.95	29.25	84.38	445-3000-2-ND	4,000	81.00/M	CKD110JB1E470S
	25	100pF	+50, -20	3.20	1.25	0.85	445-3001-1-ND	4.95	29.25	84.38	445-3001-2-ND	4,000	81.00/M	CKD110JB1E101S
	25	220pF	+50, -20	3.20	1.25	0.85	445-3002-1-ND	4.95	29.25	84.38	445-3002-2-ND	4,000	81.00/M	CKD110JB1E221S
	25	470pF	+50, -20	3.20	1.25	0.85	445-3003-1-ND	4.95	29.25	84.38	445-3003-2-ND	4,000	81.00/M	CKD110JB1E471S
	25	1000pF	+50, -20	3.20	1.25	0.85	445-3004-1-ND	4.95	29.25	84.38	445-3004-2-ND	4,000	81.00/M	CKD110JB1E102S
	25	2200pF	+50, -20	3.20	1.25	0.85	445-3005-1-ND	4.95	29.25	84.38	445-3005-2-ND	4,000	81.00/M	CKD110JB1E222S
	25	4700pF	+50, -20	3.20	1.25	0.85	445-3006-1-ND	4.95	29.25	84.38	445-3006-2-ND	4,000	81.00/M	CKD110JB1E472S
	25	10000pF	+50, -20	3.20	1.25	0.85	445-3007-1-ND	5.50	32.50	93.75	445-3007-2-ND	4,000	90.00/M	CKD110JB1E103S
	25	22000pF	+50, -20	3.20	1.25	0.85	445-3008-1-ND	5.50	32.50	93.75	445-3008-2-ND	4,000	90.00/M	CKD110JB1E223S
	25	47000pF	+50, -20	3.20	1.25	0.85	445-3009-1-ND	5.50	32.50	93.75	445-3009-2-ND	4,000	90.00/M	CKD110JB1E473S
	25	0.1µF	+50, -20	3.20	1.25	0.85	445-3010-1-ND	5.50	32.50	93.75	445-3010-2-ND	4,000	90.00/M	CKD110JB1E104S
Power Line														
CKD61BJB (0603)	6.3	0.47µF	+50, -20	1.60	0.80	0.60	445-3028-1-ND	5.50	32.50	93.75	445-3028-2-ND	4,000	90.00/M	CKD61BJB0J474S
	6.3	1µF	+50, -20	1.60	0.80	0.80	445-3029-1-ND	5.50	32.50	93.75	445-3029-2-ND	4,000	90.00/M	CKD610JB0J105S
	6.3	2.2µF	+50, -20	1.60	0.80	0.80	445-3030-1-ND	6.60	39.00	112.50	445-3030-2-ND	4,000	108.00/M	CKD610JB0J225S
CKD510JB (0805)	25	10000pF	+50, -20	2.00	1.25	0.85	445-3019-1-ND	4.95	29.25	84.38	445-3019-2-ND	4,000	81.00/M	CKD510JB1E103S
	25	22000pF	+50, -20	2.00	1.25	0.85	445-3020-1-ND	4.95	29.25	84.38	445-3020-2-ND	4,000	81.00/M	CKD510JB1E223S
	25	47000pF	+50, -20	2.00	1.25	0.85	445-3021-1-ND	4.95	29.25	84.38	445-3021-2-ND	4,000	81.00/M	CKD510JB1E473S
	25	0.1µF	+50, -20	2.00	1.25	0.85	445-3022-1-ND	4.95	29.25	84.38	445-3022-2-ND	4,000	81.00/M	CKD510JB1E104S
	10	1µF	+50, -20	2.00	1.25	0.85	445-3027-1-ND	6.05	35.75	103.13	445-3027-2-ND	4,000	99.00/M	CKD510JB1A105S
CKD310JB (1206)	16	0.1µF	+50, -20	3.20	1.60	1.60	445-3023-1-ND	5.50	32.50	93.75	445-3023-2-ND	2,000	90.00/M	CKD310JB1C104S
	16	0.22µF	+50, -20	3.20	1.60	1.60	445-3024-1-ND	5.50	32.50	93.75	445-3024-2-ND	2,000	90.00/M	CKD310JB1C224S
	16	0.47µF	+50, -20	3.20	1.60	1.60	445-3025-1-ND	5.50	32.50	93.75	—	—	—	CKD310JB1C474S
	16	1µF	+50, -20	3.20	1.60	1.60	445-3026-1-ND	6.60	39.00	112.50	445-3026-2-ND	2,000	108.00/M	CKD310JB1C105S

CLL Series — Ultra Low Inductance Multilayer Ceramic Chip Capacitors

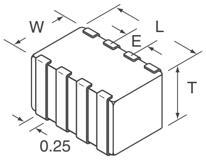

Features:

- Unique internal structure that cancels magnetic fields to reduce inductance • Compact and lightweight • Supports lead free soldering

Applications:

- Power supply circuits for CPUs and high speed digital ICs

Series	Type	WV DC	Capaci-tance (µF)	Toler-ance	Dimensions – mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 4,000	TDK Part No.
					L	W	T (max.)	E		10	100	500			
CLLC1A (0603)	X7S	4.0	0.47	±20%	1.6	0.8	0.55	0.4	445-3392-1-ND	5.50	32.50	93.75	—	—	CLLC1AX7S0G474M
	X7S	4.0	1.0	±20%	1.6	0.8	0.55	0.4	445-3394-1-ND	4.95	29.25	84.38	—	—	CLLC1AX7S0G105M
CLLE1A (0805)	X7R	10.0	0.1	±20%	2.0	1.25	0.55	0.5	445-3395-1-ND	4.95	29.25	84.38	445-3395-2-ND	81.00/M	CLLE1AX7R1A104M
	X7R	10.0	0.15	±20%	2.0	1.25	0.55	0.5	445-3396-1-ND	5.50	32.50	93.75	—	—	CLLE1AX7R1A154M
	X7R	10.0	0.22	±20%	2.0	1.25	0.55	0.5	445-3397-1-ND	4.95	29.25	84.38	—	—	CLLE1AX7R1A224M
	X7R	10.0	0.33	±20%	2.0	1.25	0.55	0.5	445-3398-1-ND	5.50	32.50	93.75	445-3398-2-ND	90.00/M	CLLE1AX7R1A334M
	X7R	6.3	0.47	±20%	2.0	1.25	0.55	0.5	445-3399-1-ND	6.05	35.75	103.13	445-3399-2-ND	99.00/M	CLLE1AX7R0J474M
	X7R	6.3	0.68	±20%	2.0	1.25	0.55	0.5	445-3400-1-ND	6.60	39.00	112.50	445-3400-2-ND	108.00/M	CLLE1AX7R0J684M
	X7R	6.3	1.0	±20%	2.0	1.25	0.95	0.5	445-3401-1-ND	6.05	35.75	103.13	445-3401-2-ND	99.00/M	CLLE1AX7R0J105M
	X7R	6.3	1.5	±20%	2.0	1.25	0.95	0.5	445-3402-1-ND	6.60	39.00	112.50	—	—	CLLE1AX7R0J155M
	X7S	4.0	1.0	±20%	2.0	1.25	0.55	0.5	445-3403-1-ND	7.15	42.25	121.88	445-3403-2-ND	117.00/M	CLLE1AX7S0G105M
	X7S	4.0	1.5	±20%	2.0	1.25	0.55	0.5	445-3404-1-ND	9.35	55.25	159.38	—	—	CLLE1AX7S0G155M
	X7S	4.0	2.2	±20%	2.0	1.25	0.55	0.5	445-3405-1-ND	8.14	48.10	138.75	—	—	CLLE1AX7S0G225M/0.55
	X7S	4.0	2.2	±20%	2.0	1.25	0.95	0.5	445-3406-1-ND	7.15	42.25	121.88	445-3406-2-ND	117.00/M	CLLE1AX7S0G225M/0.95
	X7S	4.0	4.7	±20%	2.0	1.25	0.95	0.5	445-3407-1-ND	9.35	55.25	159.38	—	—	CLLE1AX7S0G475M

Multilayer Controlled ESR Ceramic Capacitors

MLCCs with low ESR (High-Q) commonly exist in RF and microwave applications. However, intentionally higher ESR MLCCs rarely exist. In low impedance PDN designs, it is widely known that MLCCs, with adequate impedance, can be a very effective solution.

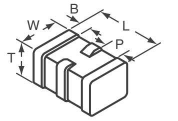

Size Code	Capacitance (µF)	Rated Voltage	Dimensions – mm					Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	TDK Part No.
			L	W	P	B	T		10	100	500			
0603	1	4	1.6	0.8	0.2	0.1	0.8	445-3720-1-ND	1.65	.98	.57	445-3720-2-ND	263.00/M	CERB3UX5R0G105M
	1	4	1.6	0.8	0.2	0.1	0.8	445-4834-1-ND	1.65	.98	.57	445-4834-2-ND	263.00/M	CERB2MX5R0G105M
	1	4	1.6	0.8	0.2	0.1	0.8	445-4835-1-ND	1.65	.98	.57	445-4835-2-ND	263.00/M	CERB2CX5R0G105M
0805	10	4	2.0	1.25	0.2	0.3	0.85	445-3721-1-ND	3.30	1.95	1.13	445-3721-2-ND	525.00/M	CERD1CX5R0G106M
	10	4	2.0	1.25	0.2	0.3	0.85	445-4836-1-ND	3.30	1.95	1.13	445-4836-2-ND	525.00/M	CERD2JX5R0G106M
	10	4	2.0	1.25	0.2	0.3	0.85	445-4837-1-ND	3.30	1.95	1.13	445-4837-2-ND	525.00/M	CERD2CX5R0G106M
	10	4	2.0	1.25	0.2	0.3	0.85	445-4838-1-ND	3.30	1.95	1.13	445-4838-2-ND	525.00/M	CERD2AX5R0G106M
	10	4	2.0	1.25	0.2	0.3	0.85	445-4839-1-ND	3.30	1.95	1.13	445-4839-2-ND	525.00/M	CERD1JX5R0G106M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CKC Series 2-Element Multilayer Ceramic Chip Capacitor Array

Features: • Two capacitors are fitted in a single product, contributing to reduced installation costs • The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market • Reduced crosstalk (signal interference) between the terminals

Applications: • They are suited for circuits that require multiple identical capacitors in a particular area of a board, such as interfaces and high-frequency noise bypass circuits on cellular phones, interfaces including I/O cables on PCs and peripherals, as well as CPU bus lines

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

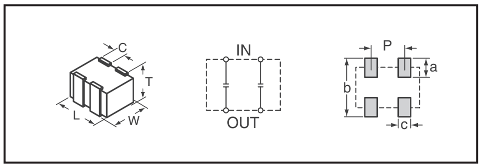

Case Size	Dimensions (mm)							
	L	W	T	C	P	a	b	c
0504	1.37 ±0.15	1.0 ±0.15	0.9 max.	0.36 ±0.1	0.64 ±0.1	0.45	1.20	0.30
0805	2.0 ±0.15	1.25 ±0.15	1.0 max.	0.45 ±0.1	1.0 ±0.1	0.60	1.60	0.50

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
0504	C0G (NP0)	50	10pF	±1pF	445-1858-1-ND	2.04	12.04	34.74	445-1858-2-ND	4,000	25.95/M	CKCM25C0G1H100F
	C0G (NP0)	50	15pF	±10%	445-1859-1-ND	2.04	12.04	34.74	445-1859-2-ND	4,000	25.95/M	CKCM25C0G1H150K
	C0G (NP0)	50	22pF	±10%	445-1860-1-ND	2.04	12.04	34.74	445-1860-2-ND	4,000	25.95/M	CKCM25C0G1H220K
	C0G (NP0)	50	33pF	±10%	445-1861-1-ND	2.04	12.04	34.74	445-1861-2-ND	4,000	25.95/M	CKCM25C0G1H330K
	C0G (NP0)	50	47pF	±10%	445-1862-1-ND	2.04	12.04	34.74	445-1862-2-ND	4,000	25.95/M	CKCM25C0G1H470K
	C0G (NP0)	50	68pF	±10%	445-1863-1-ND	2.04	12.04	34.74	445-1863-2-ND	4,000	25.95/M	CKCM25C0G1H680K
	C0G (NP0)	50	100pF	±10%	445-1864-1-ND	2.04	12.04	34.74	445-1864-2-ND	4,000	25.95/M	CKCM25C0G1H101K
	X7R	50	1000pF	±20%	445-1865-1-ND	2.04	12.04	34.74	445-1865-2-ND	4,000	25.95/M	CKCM25X7R1H102M
	X7R	50	2200pF	±20%	445-1866-1-ND	2.04	12.04	34.74	445-1866-2-ND	4,000	25.95/M	CKCM25X7R1H222M
	X7R	25	4700pF	±20%	445-1867-1-ND	2.04	12.04	34.74	—	—	—	CKCM25X7R1E472M
	X7R	16	10000pF	±20%	445-1868-1-ND	2.04	12.04	34.74	—	—	—	CKCM25X7R1C103M
	X5R	10	22000pF	±20%	445-1869-1-ND	2.35	13.90	40.09	—	—	—	CKCM25X5R1A223M
	X5R	10	47000pF	±20%	445-1870-1-ND	2.35	13.90	40.09	445-1870-2-ND	4,000	29.94/M	CKCM25X5R1A473M
	X5R	6.3	.10µF	±20%	445-1871-1-ND	2.35	13.90	40.09	445-1871-2-ND	4,000	29.94/M	CKCM25X5R0J104M
	X5R	6.3	.22µF	±20%	445-1872-1-ND	3.61	21.31	61.46	445-1872-2-ND	4,000	45.90/M	CKCM25X5R0J224M
	X5R	6.3	.47µF	±20%	445-1873-1-ND	3.61	21.31	61.46	445-1873-2-ND	4,000	45.90/M	CKCM25X5R0J474M
	X5R	6.3	1.0µF	±20%	445-1874-1-ND	3.61	21.31	61.46	445-1874-2-ND	4,000	45.90/M	CKCM25X5R0J105M
0805	C0G (NP0)	50	10pF	±1pF	445-1875-1-ND	2.82	16.67	48.09	445-1875-2-ND	4,000	35.91/M	CKCL22C0G1H100F
	C0G (NP0)	50	15pF	±10%	445-1876-1-ND	2.82	16.67	48.09	445-1876-2-ND	4,000	35.91/M	CKCL22C0G1H150K
	C0G (NP0)	50	22pF	±10%	445-1877-1-ND	2.82	16.67	48.09	445-1877-2-ND	4,000	35.91/M	CKCL22C0G1H220K
	C0G (NP0)	50	33pF	±10%	445-1878-1-ND	2.82	16.67	48.09	445-1878-2-ND	4,000	35.91/M	CKCL22C0G1H330K
	C0G (NP0)	50	47pF	±10%	445-1879-1-ND	2.82	16.67	48.09	445-1879-2-ND	4,000	35.91/M	CKCL22C0G1H470K
	C0G (NP0)	50	68pF	±10%	445-1880-1-ND	2.82	16.67	48.09	445-1880-2-ND	4,000	35.91/M	CKCL22C0G1H680K
	C0G (NP0)	50	100pF	±10%	445-1881-1-ND	2.82	16.67	48.09	445-1881-2-ND	4,000	35.91/M	CKCL22C0G1H101K
	C0G (NP0)	50	150pF	±10%	445-1882-1-ND	3.14	18.53	53.44	445-1882-2-ND	4,000	39.90/M	CKCL22C0G1H151K
	C0G (NP0)	50	220pF	±10%	445-1883-1-ND	3.14	18.53	53.44	445-1883-2-ND	4,000	39.90/M	CKCL22C0G1H221K
	C0G (NP0)	50	330pF	±10%	445-1884-1-ND	3.45	20.38	58.78	445-1884-2-ND	4,000	43.89/M	CKCL22C0G1H331K
	C0G (NP0)	50	470pF	±10%	445-1885-1-ND	3.45	20.38	58.78	445-1885-2-ND	4,000	43.89/M	CKCL22C0G1H471K
	X7R	50	1000pF	±20%	445-1886-1-ND	2.82	16.67	48.09	445-1886-2-ND	4,000	35.91/M	CKCL22X7R1H102M
	X7R	50	2200pF	±20%	445-1887-1-ND	2.82	16.67	48.09	445-1887-2-ND	4,000	35.91/M	CKCL22X7R1H222M
	X7R	50	4700pF	±20%	445-1888-1-ND	2.82	16.67	48.09	445-1888-2-ND	4,000	35.91/M	CKCL22X7R1H472M
	X7R	50	10000pF	±20%	445-1889-1-ND	2.82	16.67	48.09	445-1889-2-ND	4,000	35.91/M	CKCL22X7R1H103M
	X7R	25	22000pF	±20%	445-1890-1-ND	2.82	16.67	48.09	—	—	—	CKCL22X7R1E223M
	X7R	25	47000pF	±20%	445-1891-1-ND	3.14	18.53	53.44	—	—	—	CKCL22X7R1E473M
	X7R	16	.10µF	±20%	445-1892-1-ND	3.14	18.53	53.44	—	—	—	CKCL22X7R1C104M
	X5R	10	.22µF	±20%	445-1893-1-ND	3.61	21.31	61.46	—	—	—	CKCL22X5R1A224M
	X5R	6.3	.47µF	±20%	445-1894-1-ND	3.61	21.31	61.46	—	—	—	CKCL22X5R0J474M
	X5R	6.3	1.0µF	±20%	445-1895-1-ND	3.92	23.16	66.81	445-1895-2-ND	4,000	49.89/M	CKCL22X5R0J105M

CKC Series 4-Element Multilayer Ceramic Chip Capacitor Array

Features: • The CKC Series are integrated, single-chip, 4-element capacitors that are highly effective in EMC countermeasure applications • They are particularly effective when used as a bypass for digital signal line noise, thereby preventing EMC around connectors

Applications: • For use as a bypass for digital and analog signal line noise generated by telecommunications equipment and other common electronic circuits

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

0805 Series

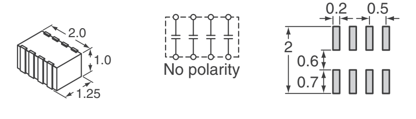

1206 Series

Dimensions in mm

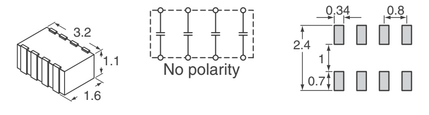

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
0805	C0G (NP0)	50	10pF	±1pF	445-1822-1-ND	2.82	16.67	48.09	445-1822-2-ND	4,000	35.91/M	CKCL44C0G1H100F
	C0G (NP0)	50	15pF	±10%	445-1823-1-ND	2.82	16.67	48.09	445-1823-2-ND	4,000	35.91/M	CKCL44C0G1H150K
	C0G (NP0)	50	22pF	±10%	445-1824-1-ND	2.92	17.23	49.69	445-1824-2-ND	4,000	37.10/M	CKCL44C0G1H220K
	C0G (NP0)	50	33pF	±10%	445-1825-1-ND	2.82	16.67	48.09	445-1825-2-ND	4,000	35.91/M	CKCL44C0G1H330K
	C0G (NP0)	50	47pF	±10%	445-1826-1-ND	2.82	16.67	48.09	445-1826-2-ND	4,000	35.91/M	CKCL44C0G1H470K
	C0G (NP0)	50	68pF	±10%	445-1827-1-ND	2.82	16.67	48.09	445-1827-2-ND	4,000	35.91/M	CKCL44C0G1H680K
	C0G (NP0)	50	100pF	±10%	445-1828-1-ND	2.82	16.67	48.09	445-1828-2-ND	4,000	35.91/M	CKCL44C0G1H101K
	C0G (NP0)	50	150pF	±10%	445-1829-1-ND	2.82	16.67	48.09	445-1829-2-ND	4,000	35.91/M	CKCL44C0G1H151K
	X7R	50	220pF	±20%	445-1830-1-ND	2.82	16.67	48.09	445-1830-2-ND	4,000	35.91/M	CKCL44X7R1H221M
	X7R	50	470pF	±20%	445-1831-1-ND	2.82	16.67	48.09	445-1831-2-ND	4,000	35.91/M	CKCL44X7R1H471M
	X7R	50	1000pF	±20%	445-1832-1-ND	2.82	16.67	48.09	445-1832-2-ND	4,000	35.91/M	CKCL44X7R1H102M
	X7R	50	2200pF	±20%	445-1833-1-ND	2.82	16.67	48.09	445-1833-2-ND	4,000	35.91/M	CKCL44X7R1H222M
	X7R	50	4700pF	±20%	445-1834-1-ND	2.82	16.67	48.09	445-1834-2-ND	4,000	35.91/M	CKCL44X7R1H472M
	X7R	25	10000pF	±20%	445-1835-1-ND	2.82	16.67	48.09	445-1835-2-ND	4,000	35.91/M	CKCL44X7R1E103M
	X7R	16	22000pF	±20%	445-1836-1-ND	3.14	18.53	53.44	445-1836-2-ND	4,000	39.90/M	CKCL44X7R1C223M
	X5R	10	47000pF	±20%	445-1837-1-ND	3.14	18.53	53.44	445-1837-2-ND	4,000	39.90/M	CKCL44X5R1A473M
	X5R	6.3	.10µF	±20%	445-1838-1-ND	3.61	21.31	61.46	445-1838-2-ND	4,000	45.90/M	CKCL44X5R0J104M
1206	C0G (NP0)	50	10pF	±1pF	445-1839-1-ND	3.14	18.53	53.44	445-1839-2-ND	2,000	39.90/M	CKCA43C0G1H100F
	C0G (NP0)	50	15pF	±10%	445-1840-1-ND	3.14	18.53	53.44	445-1840-2-ND	2,000	39.90/M	CKCA43C0G1H150K
	C0G (NP0)	50	22pF	±10%	445-1841-1-ND	3.14	18.53	53.44	445-1841-2-ND	2,000	39.90/M	CKCA43C0G1H220K
	C0G (NP0)	50	33pF	±10%	445-1842-1-ND	3.14	18.53	53.44	445-1842-2-ND	2,000	39.90/M	CKCA43C0G1H330K
	C0G (NP0)	50	47pF	±10%	445-1843-1-ND	3.14	18.53	53.44	445-1843-2-ND	2,000	39.90/M	CKCA43C0G1H470K
	C0G (NP0)	50	68pF	±10%	445-1844-1-ND	3.14	18.53	53.44	445-1844-2-ND	2,000	39.90/M	CKCA43C0G1H680K
	C0G (NP0)	50	100pF	±10%	445-1845-1-ND	3.14	18.53	53.44	445-1845-2-ND	2,000	39.90/M	CKCA43C0G1H101K
	C0G (NP0)	50	150pF	±10%	445-1846-1-ND	3.14	18.53	53.44	445-1846-2-ND	2,000	39.90/M	CKCA43C0G1H151K
	C0G (NP0)	50	220pF	±10%	445-1847-1-ND	3.14	18.53	53.44	445-1847-2-ND	2,000	39.90/M	CKCA43C0G1H221K
	C0G (NP0)	50	330pF	±10%	445-1848-1-ND	3.45	20.38	58.78	445-1848-2-ND	2,000	43.89/M	CKCA43C0G1H331K
	C0G (NP0)	50	470pF	±10%	445-1849-1-ND	3.45	20.38	58.78	445-1849-2-ND	2,000	43.89/M	CKCA43C0G1H471K
	X7R	50	470pF	±20%	445-1850-1-ND	3.14	18.53	53.44	445-1850-2-ND	2,000	39.90/M	CKCA43X7R1H471M
	X7R	50	1000pF	±20%	445-1851-1-ND	3.08	18.20	52.50	445-1851-2-ND	2,000	39.20/M	CKCA43X7R1H102M
	X7R	50	2200pF	±20%	445-1852-1-ND	3.14	18.53	53.44	445-1852-2-ND	2,000	39.90/M	CKCA43X7R1H222M
	X7R	50	4700pF	±20%	445-1853-1-ND	3.14	18.53	53.44	445-1853-2-ND	2,000	39.90/M	CKCA43X7R1H472M
	X7R	50	10000pF	±20%	445-1854-1-ND	2.64	15.60	45.00	445-1854-2-ND	2,000	33.60/M	CKCA43X7R1H103M
	X7R	50	22000pF	±20%	445-1855-1-ND	3.61	21.31	61.46	445-1855-2-ND	2,000	45.89/M	CKCA43X7R1H223M
	X7R	25	47000pF	±20%	445-1856-1-ND	3.61	21.31	61.46	445-1856-2-ND	2,000	45.89/M	CKCA43X7R1E473M
	X7R	16	.10µF	±20%	445-1857-1-ND	3.92	23.16	66.81	445-1857-2-ND	2,000	49.88/M	CKCA43X7R1C104M

TDK FD Series Ultra-High Voltage Ceramic Capacitors

Molded from resins that provide outstanding insulation and moisture resistance, these capacitors are ideal for high-voltage power circuits in electrical power transmission and receiving devices. **Features:** • Compact in size • Exhibit excellent low-loss, low-distortion characteristics • Capacitance values are largely unaffected by variations in applied voltage • Internal screw thread design simplifies mounting requirements **Applications:** • High voltage surge absorbers • Gas circuit breakers in electrical power transmission and receiving devices • Lightning arrestors • Voltage distribution elements in high-voltage measuring devices • Impedance matching in transformers and High voltage AC circuits

Fig. 1

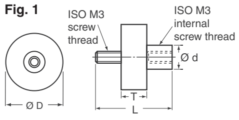

Fig. 2

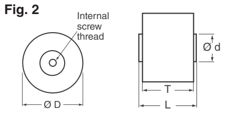

Fig.	Capacitance ±10% (pF)	Application Voltage rms (kV)	Withstanding Voltage Erms (kV)	Dimensions – mm D	T	L	d	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
1	100	10	15	16	15	27	5	445-3891-ND	40.91	32.74	28.64	FD-9AU
	250	10	15	21	15	27	5	445-3886-ND	45.81	36.65	32.07	FD-10AU
	500	10	15	28	15	27	5	445-3887-ND	49.69	39.75	34.79	FD-11AU
	1000	10	15	38	15	27	5	445-3888-ND	58.91	47.14	41.24	FD-12AU
2	500	14	20	34	23.5	27.5	10	445-3889-ND	55.64	44.51	38.95	FD-18AU
	500	20	30	40	29	33	15	445-3890-ND	73.64	58.91	51.55	FD-24AU

FHV and UHV Series Ultra-High Voltage Ceramic Capacitors

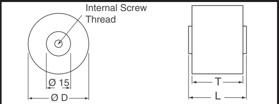

The FHV and UHV series high voltage ceramic capacitors feature low dissipation and excellent voltage-capacitance characteristics using patented strontium titanate for dielectric material. They are epoxy-encapsulated to meet requirements of high voltage applications.
Features: • Small size • Low dissipation factor • Excellent voltage-capacitance characteristics • Screw terminals for easy mounting **Applications:** • High voltage power supplies • Laser equipment **Specifications:** • Operating Temperature Range: -30°C ~ 85°C • Dissipation factor: (tan δ): 0.2% maximum

Capacitance ±10% (pF)	Rated Voltage (kV)	Dimensions – mm D	T	L	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
FHV Series									
1200	30	38	22	26	445-3896-ND	75.27	60.22	52.70	FHV-4AN
1300	50	48	29	33	445-3892-ND	88.36	70.70	61.86	FHV-11AN
2100	50	60	29	33	445-3893-ND	104.73	83.79	73.31	FHV-12AN
2600	40	60	26	30	445-3898-ND	94.91	75.93	66.44	FHV-9AN
3500	30	60	22	26	445-3897-ND	88.36	70.70	61.86	FHV-6AN
5200	20	60	18.5	22.5	445-3895-ND	85.09	68.08	59.57	FHV-3AN
7000	15	60	16.5	20.5	445-3894-ND	85.09	68.08	59.57	FHV-153AN
UHV Series									
100	40	20	28	32	445-3904-ND	58.91	47.13	41.24	UHV-241A
100	50	20	31	35	445-3905-ND	62.18	49.75	43.53	UHV-251A
200	50	30	31	35	445-3906-ND	65.45	52.37	45.82	UHV-252A
400	50	34	31	35	445-3907-ND	68.73	54.99	48.11	UHV-253A
560	50	38	31	35	445-3899-ND	72.00	57.60	50.40	UHV-10A
940	30	38	22	26	445-3909-ND	72.72	58.18	50.91	UHV-4A
1000	20	34	19	23	445-3903-ND	58.91	47.13	41.24	UHV-224A
1000	50	48	31	35	445-3900-ND	76.91	61.53	53.84	UHV-11A
1300	40	48	28	32	445-3911-ND	73.64	58.91	51.55	UHV-8A
1400	20	38	19	23	445-3902-ND	62.18	49.75	43.53	UHV-1A
1700	50	60	31	35	445-3901-ND	91.64	73.31	64.15	UHV-12A
2000	40	60	28	32	445-3912-ND	81.82	65.46	57.28	UHV-9A
2700	30	60	22	26	445-3910-ND	76.91	61.53	53.84	UHV-6A
4000	20	60	19	23	445-3908-ND	73.64	58.91	51.55	UHV-3A

Ceramic Disk Capacitors — Safety Standard Approved — CD Series — X1Y1

Reinforced Insulation Type Class 2 High Dielectric **Features:** • Smaller than conventional capacitors • Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards • Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2) • Meets European Class II (reinforced insulation) Safety Standards VDE, SEV, SEMKO, BS. Since it is rated at a withstand voltage of AC 4000V, it can be used in a single unit configurations with European Class II devices **Temperature Range:** -25°C ~ 105°C

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions – mm øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	10+2, -1	445-2402-ND	.77	1.13	8.09	CD70-B2GA101KYNS
	B (±10%)	150	K (±10%)	7	10+2, -1	445-2403-ND	.86	1.27	9.05	CD70-B2GA151KYNS
	B (±10%)	220	K (±10%)	8.5	10+2, -1	445-2404-ND	.98	1.44	10.27	CD85-B2GA221KYNS
	B (±10%)	330	K (±10%)	9	10+2, -1	445-2405-ND	1.01	1.49	10.66	CD90-B2GA331KYNS
	B (±10%)	390	K (±10%)	9	10+2, -1	445-2406-ND	1.05	1.55	11.07	CD90-B2GA391KYNS
	B (±10%)	470	K (±10%)	9.5	10+2, -1	445-2407-ND	1.11	1.63	11.64	CD95-B2GA471KYNS
	E (+20, -55%)	680	M (±20%)	7.5	10+2, -1	445-2408-ND	.71	1.05	7.52	CD75-E2GA681MYNS
	E (+20, -55%)	1000	M (±20%)	8.5	10+2, -1	445-2409-ND	.80	1.18	8.42	CD85-E2GA102MYNS
	E (+20, -55%)	1500	M (±20%)	10	10+2, -1	445-2410-ND	.95	1.40	9.99	CD10-E2GA152MYNS
	E (+20, -55%)	2200	M (±20%)	11.5	10+2, -1	445-2411-ND	1.17	1.73	12.36	CD12-E2GA222MYNS
	E (+20, -55%)	3300	M (±20%)	13.5	10+2, -1	445-2412-ND	1.59	2.34	16.72	CD14-E2GA332MYNS
	E (+20, -55%)	3900	M (±20%)	14.5	10+2, -1	445-2413-ND	1.76	2.60	18.57	CD15-E2GA392MYNS
	E (+20, -55%)	4700	M (±20%)	15.5	10+2, -1	445-2414-ND	2.03	2.99	21.37	CD16-E2GA472MYNS

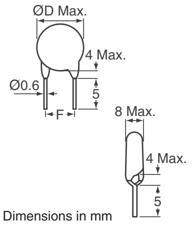

Dimensions in mm

CS Series — X1Y2

Basic Insulation Type Class 2 High Dielectric **Features:** • Smaller than conventional capacitors • Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards • Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2) **Temperature Range:** -25°C ~ 125° C

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions – mm øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	7.5 ± 1.5	445-2415-ND	.75	1.11	7.93	CS70-B2GA101KYNS
	B (±10%)	150	K (±10%)	7	7.5 ± 1.5	445-2416-ND	.73	1.07	7.65	CS70-B2GA151KYNS
	B (±10%)	220	K (±10%)	7	7.5 ± 1.5	445-2417-ND	.69	1.02	7.31	CS70-B2GA221KYNS
	B (±10%)	330	K (±10%)	8.5	7.5 ± 1.5	445-2418-ND	.87	1.28	9.16	CS85-B2GA331KYNS
	B (±10%)	470	K (±10%)	8.5	7.5 ± 1.5	445-2419-ND	.79	1.16	8.27	CS85-B2GA471KYNS
	B (±10%)	680	K (±10%)	9.5	7.5 ± 1.5	445-2420-ND	.90	1.32	9.46	CS95-B2GA681KYNS
	B (±10%)	1000	K (±10%)	10	7.5 ± 1.5	445-2421-ND	1.02	1.50	10.74	CS10-B2GA102KYNS
	E (+20, -55%)	1000	M (±20%)	8	7.5 ± 1.5	445-2422-ND	.67	.99	7.07	CS80-E2GA102MYNS
	E (+20, -55%)	1500	M (±20%)	9	7.5 ± 1.5	445-2423-ND	.83	1.22	8.70	CS90-E2GA152MYNS
	E (+20, -55%)	2200	M (±20%)	10.5	7.5 ± 1.5	445-2424-ND	.78	1.14	8.17	CS11-E2GA222MYNS
	E (+20, -55%)	3300	M (±20%)	12.5	7.5 ± 1.5	445-2425-ND	1.24	1.83	13.06	CS13-E2GA332MYNS
	E (+20, -55%)	3900	M (±20%)	13.5	7.5 ± 1.5	445-2426-ND	1.59	2.34	16.71	CS14-E2GA392MYNS
	E (+20, -55%)	4700	M (±20%)	14.5	7.5 ± 1.5	445-2427-ND	1.59	2.34	16.75	CS15-E2GA472MYNS
	F (+30, -80%)	4700	M (±20%)	12	7.5 ± 1.5	445-2428-ND	1.21	1.78	12.73	CS12-F2GA472MYNS
	F (+30, -80%)	10000	M (±20%)	16.5	10 ± 2	445-2429-ND	2.36	3.47	24.81	CS17-F2GA103MYNS

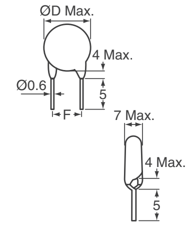

Dimensions in mm

Ultra-High Voltage Ceramic Capacitors

Applications: High voltage surge absorber, gas circuit breaker in electric power transmitter and receiver devices, lightening arresters. Improve the voltage distribution of high voltage bushings, etc. Also for voltage distribution elements for the high voltage measuring devices. For impedance adjustment of a transformers and high voltage AC circuits.

Fig. 1

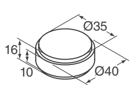

Fig. 2

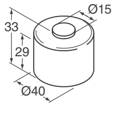

Fig.	Rated Voltage (kV)	Temperature Characteristics	Capacitance ±10% (pF)	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
1	10	Z5T	1,700	445-4840-ND	52.28	41.83	36.60	GA-14
2	20	Z5T	1,080	445-4841-ND	65.36	52.29	45.76	TSF-40C

Dipped Radial Ceramic Capacitors

— FK Series

Features: Leads are formed with a "kink" to achieve consistent insertion heights and facilitate the release of gases during soldering for dramatically improved solderability.

Dim. in mm

Fig. 1

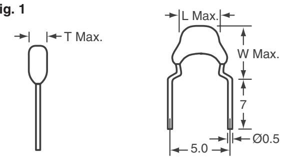

Fig. 2

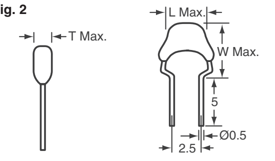

Fig.	VDC	Cap.	Cap. Tol.	Dim. (mm) L	W	T	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
MID VOLTAGE											
COG (-55°C ~ 125°C)											
1	100	100pF	±5%	4.0	5.5	2.5	445-2943-ND	1.05	1.54	11.00	FK28C0G2A101J
	100	120pF	±5%	4.0	5.5	2.5	445-4317-ND	1.09	1.61	11.50	FK28C0G2A121J
	100	150pF	±5%	4.0	5.5	2.5	445-4318-ND	1.09	1.61	11.50	FK28C0G2A151J
	100	180pF	±5%	4.0	5.5	2.5	445-4319-ND	1.09	1.61	11.50	FK28C0G2A181J
	100	220pF	±5%	4.0	5.5	2.5	445-2944-ND	1.09	1.61	11.50	FK28C0G2A221J
	100	270pF	±5%	4.0	5.5	2.5	445-4320-ND	1.14	1.68	12.00	FK28C0G2A271J
	100	330pF	±5%	4.0	5.5	2.5	445-4321-ND	1.14	1.68	12.00	FK28C0G2A331J
	100	390pF	±5%	4.0	5.5	2.5	445-4322-ND	1.14	1.68	12.00	FK28C0G2A391J
	100	470pF	±5%	4.0	5.5	2.5	445-2945-ND	1.14	1.68	12.00	FK28C0G2A471J
	100	560pF	±5%	4.0	5.5	2.5	445-4323-ND	1.19	1.75	12.50	FK28C0G2A561J
	100	680pF	±5%	4.0	5.5	2.5	445-4324-ND	1.19	1.75	12.50	FK28C0G2A681J
	100	820pF	±5%	4.0	5.5	2.5	445-4325-ND	1.19	1.75	12.50	FK28C0G2A821J
	100	1200pF	±5%	4.0	5.5	2.5	445-4326-ND	1.28	1.89	13.50	FK28C0G2A122J
	100	1200pF	±5%	4.5	5.5	2.5	445-4335-ND	1.52	2.24	16.00	FK24C0G2A122J
	100	1500pF	±5%	4.5	5.5	2.5	445-4336-ND	1.52	2.24	16.00	FK24C0G2A152J
	100	1800pF	±5%	4.5	5.5	2.5	445-4337-ND	1.52	2.24	16.00	FK24C0G2A182J
	100	2200pF	±5%	4.5	5.5	2.5	445-2597-ND	1.52	2.24	16.00	FK24C0G2A222J
	100	2700pF	±5%	4.5	5.5	2.5	445-4338-ND	1.76	2.59	18.50	FK24C0G2A272J
	100	3300pF	±5%	4.5	5.5	2.5	445-4339-ND	1.76	2.59	18.50	FK24C0G2A332J
	100	3900pF	±5%	4.5	5.5	2.5	445-4340-ND	1.76	2.59	18.50	FK24C0G2A392J
	100	3900pF	±5%	5.5	6.0	3.5	445-4346-ND	2.00	2.94	21.00	FK26C0G2A392J
	100	4700pF	±5%	4.5	5.5	2.5	445-2598-ND	1.76	2.59	18.50	FK24C0G2A472J
	100	4700pF	±5%	5.5	6.0	3.5	445-2601-ND	2.00	2.94	21.00	FK26C0G2A472J
	100	5600pF	±5%	5.5	6.0	3.5	445-4347-ND	2.00	2.94	21.00	FK26C0G2A562J
	100	6800pF	±5%	5.5	6.0	3.5	445-4348-ND	2.00	2.94	21.00	FK26C0G2A682J
	100	8200pF	±5%	5.5	6.0	3.5	445-4349-ND	2.52	3.71	26.50	FK26C0G2A822J
	100	10000pF	±5%	5.5	6.0	3.5	445-2602-ND	2.52	3.71	26.50	FK26C0G2A103J
	100	15000pF	±5%	5.5	7.0	4.0	445-4369-ND	3.80	5.60	40.00	FK20C0G2A153J
	100	33000pF	±5%	5.5	7.0	4.0	445-4370-ND	5.70	8.40	60.00	FK20C0G2A333J
	100	68000pF	±5%	7.5	8.0	4.0	445-4375-ND	11.40	16.80	120.00	FK22C0G2A683J
	100	.1µF	±5%	7.5	8.0	4.0	445-2613-ND	11.40	16.80	120.00	FK22C0G2A104J
2	100	100pF	±5%	4.0	5.5	2.5	445-4379-ND	1.05	1.54	11.00	FK18C0G2A101J
	100	120pF	±5%	4.0	5.5	2.5	445-4380-ND	1.09	1.61	11.50	FK18C0G2A121J
	100	150pF	±5%	4.0	5.5	2.5	445-4381-ND	1.09	1.61	11.50	FK18C0G2A151J
	100	180pF	±5%	4.0	5.5	2.5	445-4382-ND	1.09	1.61	11.50	FK18C0G2A181J
	100	220pF	±5%	4.0	5.5	2.5	445-4383-ND	1.09	1.61	11.50	FK18C0G2A221J
	100	270pF	±5%	4.0	5.5	2.5	445-4384-ND	1.14	1.68	12.00	FK18C0G2A271J
	100	330pF	±5%	4.0	5.5	2.5	445-4385-ND	1.14	1.68	12.00	FK18C0G2A331J
	100	390pF	±5%	4.0	5.5	2.5	445-4386-ND	1.14	1.68	12.00	FK18C0G2A391J
	100	470pF	±5%	4.0	5.5	2.5	445-4387-ND	1.14	1.68	12.00	FK18C0G2A471J
	100	560pF	±5%	4.0	5.5	2.5	445-4388-ND	1.19	1.75	12.50	FK18C0G2A561J
	100	680pF	±5%	4.0	5.5	2.5	445-4389-ND	1.19	1.75	12.50	FK18C0G2A681J
	100	820pF	±5%	4.0	5.5	2.5	445-4390-ND	1.19	1.75	12.50	FK18C0G2A821J
	100	1000pF	±5%	4.5	5.5	2.5	445-4404-ND	1.28	1.89	13.50	FK14C0G2A102J
	100	1000pF	±5%	4.0	5.5	2.5	445-4391-ND	1.19	1.75	12.50	FK18C0G2A102J
	100	1200pF	±5%	4.5	5.5	2.5	445-4405-ND	1.52	2.24	16.00	FK14C0G2A122J
	100	1200pF	±5%	4.0	5.5	2.5	445-4392-ND	1.28	1.89	13.50	FK18C0G2A122J
	100	1500pF	±5%	4.5	5.5	2.5	445-4406-ND	1.52	2.24	16.00	FK14C0G2A152J
	100	1800pF	±5%	4.5	5.5	2.5	445-4407-ND	1.52	2.24	16.00	FK14C0G2A182J
	100	2200pF	±5%	4.5	5.5	2.5	445-4408-ND	1.52	2.24	16.00	FK14C0G2A222J
	100	2700pF	±5%	4.5	5.5	2.5	445-4409-ND	1.76	2.59	18.50	FK14C0G2A272J
	100	3300pF	±5%	4.5	5.5	2.5	445-4410-ND	1.76	2.59	18.50	FK14C0G2A332J
	100	3900pF	±5%	4.5	5.5	2.5	445-4411-ND	1.76	2.59	18.50	FK14C0G2A392J
	100	4700pF	±5%	4.5	5.5	2.5	445-4412-ND	1.76	2.59	18.50	FK14C0G2A472J
1	250	100pF	±5%	4.0	5.5	2.5	445-2593-ND	1.14	1.68	12.00	FK28C0G2E101J
	250	120pF	±5%	4.0	5.5	2.5	445-4327-ND	1.19	1.75	12.50	FK28C0G2E121J
	250	150pF	±5%	4.0	5.5	2.5	445-4328-ND	1.19	1.75	12.50	FK28C0G2E151J
	250	180pF	±5%	4.0	5.5	2.5	445-4329-ND	1.19	1.75	12.50	FK28C0G2E181J
	250	220pF	±5%	4.0	5.5	2.5	445-2594-ND	1.19	1.75	12.50	FK28C0G2E221J
	250	270pF	±5%	4.0	5.5	2.5	445-4330-ND	1.19	1.75	12.50	FK28C0G2E271J
	250	330pF	±5%	4.0	5.5	2.5	445-4331-ND	1.19	1.75	12.50	FK28C0G2E331J
	250	390pF	±5%	4.0	5.5	2.5	445-4332-ND	1.19	1.75	12.50	FK28C0G2E391J
	250	470pF	±5%	4.0	5.5	2.5	445-2595-ND	1.19	1.75	12.50	FK28C0G2E471J
	250	560pF	±5%	4.0	5.5	2.5	445-4333-ND	1.24	1.82	13.00	FK28C0G2E561J
	250	680pF	±5%	4.0	5.5	2.5	445-4334-ND	1.24	1.82	13.00	FK28C0G2E681J
	250	820pF	±5%	4.5	5.5	2.5	445-4341-ND	1.38	2.03	14.50	FK24C0G2E821J
	250	1000pF	±5%	4.5	5.5	2.5	445-2599-ND	1.38	2.03	14.50	FK24C0G2E102J
1	250	1200pF	±5%	4.5	5.5	2.5	445-4342-ND	1.62	2.38	17.00	FK24C0G2E122J
	250	1500pF	±5%	4.5	5.5	2.5	445-4343-ND	1.62	2.38	17.00	FK24C0G2E152J
	250	1800pF	±5%	4.5	5.5	2.5	445-4344-ND	1.62	2.38	17.00	FK24C0G2E182J
	250	2200pF	±5%	4.5	5.5	2.5	445-2600-ND	1.62	2.38	17.00	FK24C0G2E222J
	250	2700pF	±5%	4.5	5.5	2.5	445-4345-ND	1.71	2.52	18.00	FK24C0G2E272J
	250	3300pF	±5%	5.5	6.0	3.5	445-4350-ND	2.14	3.15	22.50	FK26C0G2E332J
	250	3900pF	±5%	5.5	6.0	3.5	445-4351-ND	2.14	3.15	22.50	FK26C0G2E392J
	250	5600pF	±5%	5.5	6.0	3.5	445-4352-ND	2.38	3.50	25.00	FK26C0G2E562J
	250	6800pF	±5%	5.5	6.0	3.5	445-4353-ND	2.38	3.50	25.00	FK26C0G2E682J
	250	8200pF	±5%	5.5	6.0	3.5	445-4354-ND	2.76	4.06	29.00	FK26C0G2E822J
	250	15000pF	±5%	5.5	7.0	4.0	445-4371-ND	4.75	7.00	50.00	FK20C0G2E153J
	250	33000pF	±5%	7.5	8.0	4.0	445-4376-ND	9.50	14.00	100.00	FK22C0G2E333J
	250	10000pF	±5%	5.5	7.0	4.0	445-2610-ND	3.80	5.60	40.00	FK20C0G2E103J
	250	22000pF	±5%	7.5	8.0	4.0	445-2614-ND	8.08	11.90	85.00	FK22C0G2E223J
2	250	100pF	±5%	4.0	5.5	2.5	445-4393-ND	1.14	1.68	12.00	FK18C0G2E101J
	250	120pF	±5%	4.0	5.5	2.5	445-4394-ND	1.19	1.75	12.50	FK18C0G2E121J
	250	150pF	±5%	4.0	5.5	2.5	445-4395-ND	1.19	1.75	12.50	FK18C0G2E151J
	250	180pF	±5%	4.0	5.5	2.5	445-4396-ND	1.19	1.75	12.50	FK18C0G2E181J
	250	220pF	±5%	4.0	5.5	2.5	445-4397-ND	1.19	1.75	12.50	FK18C0G2E221J
	250	270pF	±5%	4.0	5.5	2.5	445-4398-ND	1.19	1.75	12.50	FK18C0G2E271J
	250	330pF	±5%	4.0	5.5	2.5	445-4399-ND	1.19	1.75	12.50	FK18C0G2E331J
	250	390pF	±5%	4.0	5.5	2.5	445-4400-ND	1.19	1.75	12.50	FK18C0G2E391J
	250	470pF	±5%	4.0	5.5	2.5	445-4401-ND	1.19	1.75	12.50	FK18C0G2E471J
	250	560pF	±5%	4.0	5.5	2.5	445-4402-ND	1.24	1.82	13.00	FK18C0G2E561J
	250	680pF	±5%	4.0	5.5	2.5	445-4403-ND	1.24	1.82	13.00	FK18C0G2E681J
	250	820pF	±5%	4.5	5.5	2.5	445-4413-ND	1.38	2.03	14.50	FK14C0G2E821J
	250	1000pF	±5%	4.5	5.5	2.5	445-4414-ND	1.38	2.03	14.50	FK14C0G2E102J
	250	1200pF	±5%	4.5	5.5	2.5	445-4415-ND	1.62	2.38	17.00	FK14C0G2E122J
	250	1500pF	±5%	4.5	5.5	2.5	445-4416-ND	1.62	2.38	17.00	FK14C0G2E152J
	250	1800pF	±5%	4.5	5.5	2.5	445-4417-ND	1.62	2.38	17.00	FK14C0G2E182J
	250	2200pF	±5%	4.5	5.5	2.5	445-4418-ND	1.62	2.38	17.00	FK14C0G2E222J
	250	2700pF	±5%	4.5	5.5	2.5	445-4419-ND	1.71	2.52	18.00	FK14C0G2E272J
1	630	120pF	±5%	5.5	6.0	3.5	445-4355-ND	1.71	2.52	18.00	FK26C0G2J121J
	630	150pF	±5%	5.5	6.0	3.5	445-4356-ND	1.71	2.52	18.00	FK26C0G2J151J
	630	180pF	±5%	5.5	6.0	3.5	445-4357-ND	1.71	2.52	18.00	FK26C0G2J181J
	630	220pF	±5%	5.5	6.0	3.5	445-2605-ND	1.71	2.52	18.00	FK26C0G2J221J
	630	270pF	±5%	5.5	6.0	3.5	445-4358-ND	1.95	2.87	20.50	FK26C0G2J271J
	630	330pF	±5%	5.5	6.0	3.5	445-4359-ND	1.95	2.87	20.50	FK26C0G2J331J
	630	390pF	±5%	5.5	6.0	3.5	445-4360-ND	1.95	2.87	20.50	FK26C0G2J391J
	630	470pF	±5%	5.5	6.0	3.5	445-2606-ND	1.95	2.87	20.50	FK26C0G2J471J
	630	560pF	±5%	5.5	6.0	3.5	445-4361-ND	2.14	3.15	22.50	FK26C0G2J561J
	630	680pF	±5%	5.5	6.0	3.5	445-4362-ND	2.14	3.15	22.50	FK26C0G2J681J
	630	820pF	±5%	5.5	6.0	3.5	445-4363-ND	2.14	3.15	22.50	FK26C0G2J821J
	630	1000pF	±5%	5.5	6.0	3.5	445-2607-ND	2.14	3.15	22.50	FK26C0G2J102J
	630	1200pF	±5%	5.5	6.0	3.5	445-4364-ND	2.38	3.50	25.00	FK26C0G2J122J
	630	1500pF	±5%	5.5	6.0	3.5	445-4365-ND	2.38	3.50	25.00	FK26C0G2J152J
	630	1800pF	±5%	5.5	6.0	3.5	445-4366-ND	2.38	3.50	25.00	FK26C0G2J182J
	630	2700pF	±5%	5.5	6.0	3.5	445-4367-ND	2.61	3.85	27.50	FK26C0G2J272J
	630	3300pF	±5%	5.5	6.0	3.5	445-4368-ND	2.61	3.85	27.50	FK26C0G2J332J
	630	3900pF	±5%	5.5	7.0	4.0	445-4372-ND	3.80	5.60	40.00	FK20C0G2J392J
	630	5600pF	±5%	5.5	7.0	4.0	445-4373-ND	4.75	7.00	50.00	FK20C0G2J562J
	630	6800pF	±5%	5.5	7.0	4.0	445-4374-ND	4.75	7.00	50.00	FK20C0G2J682J
	630	8200pF	±5%	7.5	8.0	4.0	445-4377-ND	5.70	8.40	60.00	FK22C0G2J822J
	630	10000pF	±5%	7.5	8.0	4.0	445-2616-ND	5.70	8.40	60.00	FK22C0G2J103J
	630	15000pF	±5%	7.5	8.0	4.0	445-4378-ND	10.45	15.40	110.00	FK22C0G2J153J
	630	22000pF	±5%	7.5	8.0	4.0	445-2617-ND	15.20	22.40	160.00	FK22C0G2J223J
X7R (-55°C ~ 125°C)											
1	100	1000pF	±10%	4.5	5.5	2.5	445-2622-ND	1.19	1.75	12.50	FK24X7R2A102K
	100	1500pF	±10%	4.5	5.5	2.5	445-4263-ND	1.24	1.82	13.00	FK24X7R2A152K
	100	1500pF	±10%	4.0	5.5	2.5	445-4260-ND	1.09	1.61	11.50	FK28X7R2A152K
	100	3300pF	±10%	4.5	5.5	2.5	445-4264-ND	1.28	1.89	13.50	FK24X7R2A332K
	100	3300pF	±10%	4.0	5.5	2.5	445-4261-ND	1.09	1.61	11.50	FK28X7R2A332K
	100	6800pF	±10%	4.5	5.5	2.5	445-4265-ND	1.33	1.96	14.00	FK24X7R2A682K
	100	6800pF	±10%	4.0	5.5	2.5	445-4262-ND	1.14	1.68	12.00	FK28X7R2A682K
	100	10000pF	±10%	4.5	5.5	2.5	445-2625-ND	1.33	1.96	14.00	FK24X7R2A103K
	100	10000pF	±10%	4.0	5.5	2.5	445-2621-ND	1.14	1.68	12.00	FK28X7R2A103K
	100	15000pF	±10%	4.5	5.5	2.5	445-4266-ND	1.33	1.96	14.00	FK24X7R2A153K
	100	22000pF	±10%	4.5	5.5	2.5	445-2626-ND	1.33	1.96	14.00	FK24X7R2A223K
	100	33000pF	±10%	4.5	5.5	2.5	445-4267-ND	1.38	2.03	14.50	FK24X7R2A333K
	100	33000pF	±10%	5.5	6.0	3.5	445-4272-ND	1.95	2.87	20.50	FK26X7R2A333K
	100	47000pF	±10%	4.5	5.5	2.5	445-2627-ND	1.38	2.03	14.50	FK24X7R2A473K
	100	47000pF	±10%	5.5	6.0	3.5	445-2633-ND	1.95	2.87	20.50	FK26X7R2A473K
	100	68000pF	±10%	5.5	6.0	3.5	445-4273-ND	2.04	3.01	21.50	FK26X7R2A683K
	100	.1µF	±10%	5.5	6.0	3.5	445-2634-ND	2.04	3.01	21.50	FK26X7R2A104K
	100	.15µF	±10%	5.5	6.0	3.5	445-4274-ND	2.33	3.43	24.50	FK26X7R2A154K
	100	.33µF	±10%	5.5	7.0	4.0	445-4283-ND	3.85	5.67	40.50	FK20X7R2A334K
	100	.47µF	±10%	5.5	7.0	4.0	445-2643-ND	3.85	5.67	40.50	FK20X7R2A474K
	100	.68µF	±10%	7.5	8.0	4.0	445-4286-ND	5.89	8.68	62.00	FK22X7R2A684K
	100	1µF	±10%	7.5	8.0	4.0	445-2647-ND	5.89	8.68	62.00	FK22X7R2A105K
2	100	1000pF	±10%	4.5	5.5	2.5	445-4297-ND	1.19	1.75	12.50	FK14X7R2A102K
	100	1000pF	±10%	4.0	5.5	2.5	445-4290-ND	1.09	1.61	11.50	FK18X7R2A102K
	100	1500pF	±10%	4.5	5.5	2.5	445-4298-ND	1.24	1.82	13.00	FK14X7R2A152K
	100	1500pF	±10%	4.0	5.5	2.5	445-4291-ND	1.09	1.61	11.50	FK18X7R2A152K
	100	2200pF	±10%	4.5	5.5	2.5	445-4299-ND	1.24	1.82	13.00	FK14X7R2A222K

(Continued)

TDK Dipped Radial Ceramic Capacitors — FK Series *(Cont.)*

Fig.	VDC	Cap.	Cap. Tol.	Dim. (mm)			Digi-Key Part No.	Pricing			TDK Part No.
				L	W	T		5	10	100	
2	100	2200pF	±10%	4.0	5.5	2.5	445-4292-ND	1.09	1.61	11.50	FK18X7R2A222K
	100	4700pF	±10%	4.5	5.5	2.5	445-4301-ND	1.28	1.89	13.50	FK14X7R2A472K
	100	4700pF	±10%	4.0	5.5	2.5	445-4294-ND	1.09	1.61	11.50	FK18X7R2A472K
	100	3300pF	±10%	4.5	5.5	2.5	445-4300-ND	1.28	1.89	13.50	FK14X7R2A332K
	100	3300pF	±10%	4.0	5.5	2.5	445-4293-ND	1.09	1.61	11.50	FK18X7R2A332K
	100	6800pF	±10%	4.5	5.5	2.5	445-4302-ND	1.33	1.96	14.00	FK14X7R2A682K
	100	6800pF	±10%	4.0	5.5	2.5	445-4295-ND	1.14	1.68	12.00	FK18X7R2A682K
	100	10000pF	±10%	4.5	5.5	2.5	445-4303-ND	1.33	1.96	14.00	FK14X7R2A103K
	100	10000pF	±10%	4.0	5.5	2.5	445-4296-ND	1.14	1.68	12.00	FK18X7R2A103K
	100	15000pF	±10%	4.5	5.5	2.5	445-4304-ND	1.33	1.96	14.00	FK14X7R2A153K
	100	22000pF	±10%	4.5	5.5	2.5	445-4305-ND	1.33	1.96	14.00	FK14X7R2A223K
	100	33000pF	±10%	4.5	5.5	2.5	445-4306-ND	1.38	2.03	14.50	FK14X7R2A333K
	100	47000pF	±10%	4.5	5.5	2.5	445-4307-ND	1.38	2.03	14.50	FK14X7R2A473K
1	250	1000pF	±10%	4.5	5.5	2.5	445-2628-ND	1.28	1.89	13.50	FK24X7R2E102K
	250	1500pF	±10%	4.5	5.5	2.5	445-4268-ND	1.33	1.96	14.00	FK24X7R2E152K
	250	2200pF	±10%	4.5	5.5	2.5	445-2629-ND	1.33	1.96	14.00	FK24X7R2E222K
	250	3300pF	±10%	4.5	5.5	2.5	445-4269-ND	1.38	2.03	14.50	FK24X7R2E332K
	250	6800pF	±10%	4.5	5.5	2.5	445-4270-ND	1.38	2.03	14.50	FK24X7R2E682K
	250	10000pF	±10%	4.5	5.5	2.5	445-2631-ND	1.38	2.03	14.50	FK24X7R2E103K
	250	15000pF	±10%	4.5	5.5	2.5	445-4271-ND	1.43	2.10	15.00	FK24X7R2E153K
	250	15000pF	±10%	5.5	6.0	3.5	445-4275-ND	2.19	3.22	23.00	FK26X7R2E153K
	250	33000pF	±10%	5.5	6.0	3.5	445-4276-ND	2.33	3.43	24.50	FK26X7R2E333K
	250	47000pF	±10%	5.5	6.0	3.5	445-2636-ND	2.33	3.43	24.50	FK26X7R2E473K
	250	68000pF	±10%	5.5	6.0	3.5	445-4277-ND	2.52	3.71	26.50	FK26X7R2E683K
	250	.1µF	±10%	5.5	6.0	3.5	445-2637-ND	2.52	3.71	26.50	FK26X7R2E104K
	250	.15µF	±10%	5.5	7.0	4.0	445-4284-ND	4.70	6.93	49.50	FK20X7R2E154K
	250	.15µF	±10%	7.5	8.0	4.0	445-4287-ND	5.37	7.91	56.50	FK22X7R2E154K
	250	.22µF	±10%	5.5	7.0	4.0	445-2645-ND	4.70	6.93	49.50	FK20X7R2E224K
	250	.33µF	±10%	7.5	8.0	4.0	445-4288-ND	6.70	9.87	70.50	FK22X7R2E334K
	250	.47µF	±10%	7.5	8.0	4.0	445-2649-ND	6.70	9.87	70.50	FK22X7R2E474K
2	250	1000pF	±10%	4.5	5.5	2.5	445-4308-ND	1.28	1.89	13.50	FK14X7R2E102K
	250	1500pF	±10%	4.5	5.5	2.5	445-4309-ND	1.33	1.96	14.00	FK14X7R2E152K
	250	2200pF	±10%	4.5	5.5	2.5	445-4310-ND	1.33	1.96	14.00	FK14X7R2E222K
	250	3300pF	±10%	4.5	5.5	2.5	445-4311-ND	1.38	2.03	14.50	FK14X7R2E332K
	250	4700pF	±10%	4.5	5.5	2.5	445-4312-ND	1.38	2.03	14.50	FK14X7R2E472K
	250	6800pF	±10%	4.5	5.5	2.5	445-4313-ND	1.38	2.03	14.50	FK14X7R2E682K
	250	10000pF	±10%	4.5	5.5	2.5	445-4314-ND	1.38	2.03	14.50	FK14X7R2E103K
	250	15000pF	±10%	4.5	5.5	2.5	445-4315-ND	1.43	2.10	15.00	FK14X7R2E153K
	250	22000pF	±10%	4.5	5.5	2.5	445-4316-ND	1.43	2.10	15.00	FK14X7R2E223K
1	630	1000pF	±10%	5.5	6.0	3.5	445-2638-ND	2.14	3.15	22.50	FK26X7R2J102K
	630	1500pF	±10%	5.5	6.0	3.5	445-4278-ND	2.23	3.29	23.50	FK26X7R2J152K
	630	3300pF	±10%	5.5	6.0	3.5	445-4279-ND	2.38	3.50	25.00	FK26X7R2J332K
	630	4700pF	±10%	5.5	6.0	3.5	445-2640-ND	2.38	3.50	25.00	FK26X7R2J472K
	630	6800pF	±10%	5.5	6.0	3.5	445-4280-ND	2.47	3.64	26.00	FK26X7R2J682K
	630	15000pF	±10%	5.5	6.0	3.5	445-4281-ND	2.61	3.85	27.50	FK26X7R2J153K
	630	22000pF	±10%	5.5	6.0	3.5	445-2642-ND	2.61	3.85	27.50	FK26X7R2J223K
	630	33000pF	±10%	5.5	6.0	3.5	445-4282-ND	2.85	4.20	30.00	FK26X7R2J333K
	630	47000pF	±10%	5.5	7.0	4.0	445-2646-ND	3.04	4.48	32.00	FK20X7R2J473K
	630	68000pF	±10%	5.5	7.0	4.0	445-4285-ND	3.33	4.90	35.00	FK20X7R2J683K
	630	68000pF	±10%	7.5	8.0	4.0	445-4289-ND	5.04	7.42	53.00	FK22X7R2J683K
	630	.1µF	±10%	7.5	8.0	4.0	445-2650-ND	5.04	7.42	53.00	FK22X7R2J104K
GENERAL USE											
COG (-55°C ~ 125°C)											
1	50	10pF	±0.5pF	4.0	5.5	2.5	445-4714-ND	1.00	1.47	10.50	FK28C0G1H100D
	50	12pF	±5%	4.0	5.5	2.5	445-4715-ND	1.00	1.47	10.50	FK28C0G1H120J
	50	15pF	±5%	4.0	5.5	2.5	445-4716-ND	1.00	1.47	10.50	FK28C0G1H150J
	50	18pF	±5%	4.0	5.5	2.5	445-4717-ND	1.00	1.47	10.50	FK28C0G1H180J
	50	22pF	±5%	4.0	5.5	2.5	445-4718-ND	1.00	1.47	10.50	FK28C0G1H220J
	50	27pF	±5%	4.0	5.5	2.5	445-4719-ND	1.00	1.47	10.50	FK28C0G1H270J
	50	33pF	±5%	4.0	5.5	2.5	445-4720-ND	1.00	1.47	10.50	FK28C0G1H330J
	50	39pF	±5%	4.0	5.5	2.5	445-4721-ND	1.00	1.47	10.50	FK28C0G1H390J
	50	47pF	±5%	4.0	5.5	2.5	445-4722-ND	1.00	1.47	10.50	FK28C0G1H470J
	50	56pF	±5%	4.0	5.5	2.5	445-4723-ND	1.00	1.47	10.50	FK28C0G1H560J
	50	68pF	±5%	4.0	5.5	2.5	445-4724-ND	1.00	1.47	10.50	FK28C0G1H680J
	50	82pF	±5%	4.0	5.5	2.5	445-4725-ND	1.00	1.47	10.50	FK28C0G1H820J
	50	100pF	±5%	4.0	5.5	2.5	445-4726-ND	1.00	1.47	10.50	FK28C0G1H101J
	50	120pF	±5%	4.0	5.5	2.5	445-4727-ND	1.07	1.58	11.25	FK28C0G1H121J
	50	150pF	±5%	4.0	5.5	2.5	445-4728-ND	1.07	1.58	11.25	FK28C0G1H151J
	50	180pF	±5%	4.0	5.5	2.5	445-4729-ND	1.07	1.58	11.25	FK28C0G1H181J
	50	220pF	±5%	4.0	5.5	2.5	445-4730-ND	1.07	1.58	11.25	FK28C0G1H221J
	50	270pF	±5%	4.0	5.5	2.5	445-4731-ND	1.12	1.65	11.75	FK28C0G1H271J
	50	330pF	±5%	4.0	5.5	2.5	445-4732-ND	1.12	1.65	11.75	FK28C0G1H331J
	50	390pF	±5%	4.0	5.5	2.5	445-4733-ND	1.12	1.65	11.75	FK28C0G1H391J
	50	470pF	±5%	4.0	5.5	2.5	445-4734-ND	1.12	1.65	11.75	FK28C0G1H471J
	50	560pF	±5%	4.0	5.5	2.5	445-4735-ND	1.14	1.68	12.00	FK28C0G1H561J
	50	680pF	±5%	4.0	5.5	2.5	445-4736-ND	1.14	1.68	12.00	FK28C0G1H681J
	50	820pF	±5%	4.0	5.5	2.5	445-4737-ND	1.14	1.68	12.00	FK28C0G1H821J
	50	1000pF	±5%	4.0	5.5	2.5	445-4738-ND	1.14	1.68	12.00	FK28C0G1H102J
	50	1200pF	±5%	4.0	5.5	2.5	445-4739-ND	1.24	1.82	13.00	FK28C0G1H122J
	50	1500pF	±5%	4.0	5.5	2.5	445-4740-ND	1.43	2.10	15.00	FK28C0G1H152J
	50	1800pF	±5%	4.0	5.5	2.5	445-4741-ND	1.43	2.10	15.00	FK28C0G1H182J
	50	2200pF	±5%	4.0	5.5	2.5	445-4742-ND	1.43	2.10	15.00	FK28C0G1H222J
	50	2700pF	±5%	4.0	5.5	2.5	445-4743-ND	1.43	2.10	15.00	FK28C0G1H272J
	50	3300pF	±5%	4.0	5.5	2.5	445-4744-ND	1.43	2.10	15.00	FK28C0G1H332J
1	50	3900pF	±5%	4.5	5.5	2.5	445-4745-ND	1.71	2.52	18.00	FK24C0G1H392J
	50	4700pF	±5%	4.5	5.5	2.5	445-4746-ND	1.71	2.52	18.00	FK24C0G1H472J
	50	5600pF	±5%	4.5	5.5	2.5	445-4747-ND	1.92	2.84	20.25	FK24C0G1H562J
	50	6800pF	±5%	4.5	5.5	2.5	445-4748-ND	1.92	2.84	20.25	FK24C0G1H682J
	50	8200pF	±5%	4.5	5.5	2.5	445-4749-ND	2.14	3.15	22.50	FK24C0G1H822J
	50	10000pF	±5%	4.5	5.5	2.5	445-4750-ND	2.14	3.15	22.50	FK24C0G1H103J
	50	15000pF	±5%	5.5	6.0	3.5	445-4751-ND	2.85	4.20	30.00	FK26C0G1H153J
	50	22000pF	±5%	5.5	6.0	3.5	445-4752-ND	2.85	4.20	30.00	FK26C0G1H223J
	50	33000pF	±5%	5.5	6.0	3.5	445-4753-ND	3.56	5.25	37.50	FK26C0G1H333J
	50	47000pF	±5%	5.5	7.0	4.0	445-4754-ND	7.13	10.50	75.00	FK20C0G1H473J
	50	68000pF	±5%	5.5	7.0	4.0	445-4755-ND	9.50	14.00	100.00	FK20C0G1H683J
	50	.10µF	±5%	5.5	7.0	4.0	445-4756-ND	10.69	15.75	112.50	FK20C0G1H104J
	50	.15µF	±5%	7.5	8.0	4.0	445-4757-ND	11.88	17.50	125.00	FK22C0G1H154J
	50	.22µF	±5%	7.5	8.0	4.0	445-4758-ND	13.06	19.25	137.50	FK22C0G1H224J
2	50	10pF	±0.5pF	4.0	5.5	2.5	445-4759-ND	1.00	1.47	10.50	FK18C0G1H100D
	50	12pF	±5%	4.0	5.5	2.5	445-4760-ND	1.00	1.47	10.50	FK18C0G1H120J
	50	15pF	±5%	4.0	5.5	2.5	445-4761-ND	1.00	1.47	10.50	FK18C0G1H150J
	50	18pF	±5%	4.0	5.5	2.5	445-4762-ND	1.00	1.47	10.50	FK18C0G1H180J
	50	22pF	±5%	4.0	5.5	2.5	445-4763-ND	1.00	1.47	10.50	FK18C0G1H220J
	50	27pF	±5%	4.0	5.5	2.5	445-4764-ND	1.00	1.47	10.50	FK18C0G1H270J
	50	33pF	±5%	4.0	5.5	2.5	445-4765-ND	1.00	1.47	10.50	FK18C0G1H330J
	50	39pF	±5%	4.0	5.5	2.5	445-4766-ND	1.00	1.47	10.50	FK18C0G1H390J
	50	47pF	±5%	4.0	5.5	2.5	445-4767-ND	1.00	1.47	10.50	FK18C0G1H470J
	50	56pF	±5%	4.0	5.5	2.5	445-4768-ND	1.00	1.47	10.50	FK18C0G1H560J
	50	68pF	±5%	4.0	5.5	2.5	445-4769-ND	1.00	1.47	10.50	FK18C0G1H680J
	50	82pF	±5%	4.0	5.5	2.5	445-4770-ND	1.00	1.47	10.50	FK18C0G1H820J
	50	100pF	±5%	4.0	5.5	2.5	445-4771-ND	1.00	1.47	10.50	FK18C0G1H101J
	50	120pF	±5%	4.0	5.5	2.5	445-4772-ND	1.07	1.58	11.25	FK18C0G1H121J
	50	150pF	±5%	4.0	5.5	2.5	445-4773-ND	1.07	1.58	11.25	FK18C0G1H151J
	50	180pF	±5%	4.0	5.5	2.5	445-4774-ND	1.07	1.58	11.25	FK18C0G1H181J
	50	220pF	±5%	4.0	5.5	2.5	445-4775-ND	1.07	1.58	11.25	FK18C0G1H221J
	50	270pF	±5%	4.0	5.5	2.5	445-4776-ND	1.12	1.65	11.75	FK18C0G1H271J
	50	330pF	±5%	4.0	5.5	2.5	445-4777-ND	1.12	1.65	11.75	FK18C0G1H331J
	50	390pF	±5%	4.0	5.5	2.5	445-4778-ND	1.12	1.65	11.75	FK18C0G1H391J
	50	470pF	±5%	4.0	5.5	2.5	445-4779-ND	1.12	1.65	11.75	FK18C0G1H471J
	50	560pF	±5%	4.0	5.5	2.5	445-4780-ND	1.14	1.68	12.00	FK18C0G1H561J
	50	680pF	±5%	4.0	5.5	2.5	445-4781-ND	1.14	1.68	12.00	FK18C0G1H681J
	50	820pF	±5%	4.0	5.5	2.5	445-4782-ND	1.14	1.68	12.00	FK18C0G1H821J
	50	1000pF	±5%	4.0	5.5	2.5	445-4783-ND	1.14	1.68	12.00	FK18C0G1H102J
	50	1200pF	±5%	4.0	5.5	2.5	445-4784-ND	1.24	1.82	13.00	FK18C0G1H122J
	50	1500pF	±5%	4.0	5.5	2.5	445-4785-ND	1.43	2.10	15.00	FK18C0G1H152J
	50	1800pF	±5%	4.0	5.5	2.5	445-4786-ND	1.43	2.10	15.00	FK18C0G1H182J
	50	2200pF	±5%	4.0	5.5	2.5	445-4787-ND	1.43	2.10	15.00	FK18C0G1H222J
	50	2700pF	±5%	4.0	5.5	2.5	445-4788-ND	1.43	2.10	15.00	FK18C0G1H272J
	50	3300pF	±5%	4.0	5.5	2.5	445-4789-ND	1.43	2.10	15.00	FK18C0G1H332J
	50	3900pF	±5%	4.5	5.5	2.5	445-4790-ND	1.71	2.52	18.00	FK14C0G1H392J
	50	4700pF	±5%	4.5	5.5	2.5	445-4791-ND	1.71	2.52	18.00	FK14C0G1H472J
	50	5600pF	±5%	4.5	5.5	2.5	445-4792-ND	1.92	2.84	20.25	FK14C0G1H562J
	50	6800pF	±5%	4.5	5.5	2.5	445-4793-ND	1.92	2.84	20.25	FK14C0G1H682J
	50	8200pF	±5%	4.5	5.5	2.5	445-4794-ND	2.14	3.15	22.50	FK14C0G1H822J
	50	10000pF	±5%	4.5	5.5	2.5	445-4795-ND	2.14	3.15	22.50	FK14C0G1H103J
	50	15000pF	±5%	5.5	6.0	3.5	445-4796-ND	2.85	4.20	30.00	FK16C0G1H153J
	50	22000pF	±5%	5.5	6.0	3.5	445-4797-ND	2.85	4.20	30.00	FK16C0G1H223J
	50	33000pF	±5%	5.5	6.0	3.5	445-4798-ND	3.56	5.25	37.50	FK16C0G1H333J
	50	47000pF	±5%	5.5	7.0	4.0	445-4799-ND	7.13	10.50	75.00	FK11C0G1H473J
	50	68000pF	±5%	5.5	7.0	4.0	445-4800-ND	9.50	14.00	100.00	FK11C0G1H683J
	50	.10µF	±5%	5.5	7.0	4.0	445-4801-ND	10.69	15.75	112.50	FK11C0G1H104J
X7R (-55°C ~ 125°C)											
1	16	.22µF	±10%	4.0	5.5	2.5	445-2849-ND	1.14	1.68	12.00	FK28X7R1C224K
	16	1µF	±10%	4.5	5.5	2.5	445-2858-ND	1.57	2.31	16.50	FK24X7R1C105K
	16	2.2µF	±10%	4.5	5.5	2.5	445-2859-ND	1.76	2.59	18.50	FK24X7R1C225K
	16	4.7µF	±10%	5.5	6.0	3.5	445-2873-ND	2.19	3.22	23.00	FK26X7R1C475K
	16	10µF	±10%	5.5	7.0	4.0	445-2887-ND	4.13	6.09	43.50	FK20X7R1C106K
	16	10µF	±20%	5.5	7.0	4.0	445-2888-ND	4.13	6.09	43.50	FK20X7R1C106M
	16	22µF	±20%	7.5	8.0	4.0	445-2900-ND	8.08	11.90	85.00	FK22X7R1C226M
	25	.47µF	±10%	4.5	5.5	2.5	445-2856-ND	1.43	2.10	15.00	FK24X7R1E474K
	25	1µF	±10%	4.5	5.5	2.5	445-2857-ND	1.78	2.63	18.75	FK24X7R1E105K
	25	1µF	±10%	5.5	6.0	3.5	445-2871-ND	2.02	2.98	21.25	FK26X7R1E105K
	25	2.2µF	±10%	5.5	6.0	3.5	445-2872-ND	2.26	3.33	23.75	FK26X7R1E225K
	25	2.2µF	±10%	5.5	7.0	4.0	445-2885-ND	4.56	6.72	48.00	FK20X7R1E225K
	25	4.7µF	±10%	5.5	7.0	4.0	445-2886-ND	6.89	10.15	72.50	FK20X7R1E475K
	25	4.7µF	±10%	7.5	8.0	4.0	445-2897-ND	5.23	7.70	55.00	FK22X7R1E475K
	25	10µF	±10%	7.5	8.0	4.0	445-2898-ND	7.13	10.50	75.00	FK22X7R1E106K
	25	10µF	±20%	7.5	8.0	4.0	445-2899-ND	7.13	10.50	75.00	FK22X7R1E106M
	50	.22µF	±10%	4.5	5.5	2.5	445-2855-ND	1.31	1.93	13.75	FK24X7R1H224K
	50	.47µF	±10%	5.5	6.0	3.5	445-2870-ND	1.85	2.73	19.50	FK26X7R1H474K
	50	1µF	±10%	5.5	7.0	4.0	445-2884-ND	3.68	5.43	38.75	FK20X7R1H105K
	50	2.2µF	±10%	7.5	8.0	4.0	445-2896-ND	5.70	8.40	60.00	FK22X7R1H225K
	50	1000pF	±10%	4.0	5.5	2.5	445-5246-ND ***NEW!***	.86	1.26	9.00	FK28X7R1H102K
	50	1500pF	±10%	4.0	5.5	2.5	445-5247-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H152K
	50	2200pF	±10%	4.0	5.5	2.5	445-5248-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H222K
	50	3300pF	±10%	4.0	5.5	2.5	445-5249-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H332K
	50	4700pF	±10%	4.0	5.5	2.5	445-5250-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H472K
	50	6800pF	±10%	4.0	5.5	2.5	445-5251-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H682K

(Continued)

TDK Dipped Radial Ceramic Capacitors — FK Series *(Cont.)*

Fig.	VDC	Cap.	Cap. Tol.	Dim. (mm)			Digi-Key Part No.	Pricing			TDK Part No.
				L	W	T		5	10	100	
1	50	10000pF	±10%	4.0	5.5	2.5	445-5252-ND ***NEW!***	.86	1.26	9.00	FK28X7R1H103K
	50	0.015µF	±10%	4.0	5.5	2.5	445-5253-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H153K
	50	0.022µF	±10%	4.0	5.5	2.5	445-5254-ND ***NEW!***	.95	1.40	10.00	FK28X7R1H223K
	50	0.033µF	±10%	4.0	5.5	2.5	445-5255-ND ***NEW!***	1.05	1.54	11.00	FK28X7R1H333K
	50	0.047µF	±10%	4.0	5.5	2.5	445-5256-ND ***NEW!***	1.05	1.54	11.00	FK28X7R1H473K
	50	0.068µF	±10%	4.0	5.5	2.5	445-5257-ND ***NEW!***	1.14	1.68	12.00	FK28X7R1H683K
	50	0.10µF	±10%	4.0	5.5	2.5	445-5258-ND ***NEW!***	1.05	1.54	11.00	FK28X7R1H104K
	25	0.15µF	±10%	4.0	5.5	2.5	445-5259-ND ***NEW!***	1.05	1.54	11.00	FK28X7R1E154K
	50	0.15µF	±10%	4.5	5.5	2.5	445-5262-ND ***NEW!***	1.19	1.75	12.50	FK24X7R1H154K
	50	0.33µF	±10%	4.5	5.5	2.5	445-5263-ND ***NEW!***	1.43	2.10	15.00	FK24X7R1H334K
	25	0.68µF	±10%	4.5	5.5	2.5	445-5264-ND ***NEW!***	1.66	2.45	17.50	FK24X7R1E684K
	25	1.5µF	±10%	4.5	5.5	2.5	445-5265-ND ***NEW!***	1.90	2.80	20.00	FK24X7R1E155K
	16	0.68µF	±10%	4.5	5.5	2.5	445-5266-ND ***NEW!***	1.43	2.10	15.00	FK24X7R1C684K
	16	1.5µF	±10%	4.5	5.5	2.5	445-5267-ND ***NEW!***	1.81	2.66	19.00	FK24X7R1C155K
	25	0.68µF	±10%	5.5	6.0	3.5	445-5271-ND ***NEW!***	1.90	2.80	20.00	FK26X7R1E684K
	25	1.5µF	±10%	5.5	6.0	3.5	445-5272-ND ***NEW!***	2.14	3.15	22.50	FK26X7R1E155K
	16	3.3µF	±10%	5.5	6.0	3.5	445-5273-ND ***NEW!***	2.09	3.08	22.00	FK26X7R1C335K
	50	0.68µF	±10%	5.5	7.0	4.0	445-5279-ND ***NEW!***	3.33	4.90	35.00	FK20X7R1H684K
	50	1.5µF	±10%	5.5	7.0	4.0	445-5280-ND ***NEW!***	4.04	5.95	42.50	FK20X7R1H155K
	25	3.3µF	±10%	5.5	7.0	4.0	445-5281-ND ***NEW!***	4.75	7.00	50.00	FK20X7R1E335K
	25	6.8µF	±10%	5.5	7.0	4.0	445-5282-ND ***NEW!***	7.60	11.20	80.00	FK20X7R1E685K
	16	15µF	±20%	5.5	7.0	4.0	445-5283-ND ***NEW!***	5.23	7.70	55.00	FK20X7R1C156M
	50	3.3µF	±10%	7.5	8.0	4.0	445-5286-ND ***NEW!***	7.13	10.50	75.00	FK22X7R1H335K
	25	6.8µF	±10%	7.5	8.0	4.0	445-5287-ND ***NEW!***	6.18	9.10	65.00	FK22X7R1E685K
	25	15µF	±20%	7.5	8.0	4.0	445-5288-ND ***NEW!***	8.55	12.60	90.00	FK22X7R1E156M
2	50	1000pF	±10%	4.0	5.5	2.5	445-5291-ND ***NEW!***	.86	1.26	9.00	FK18X7R1H102K
	50	1500pF	±10%	4.0	5.5	2.5	445-5292-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H152K
	50	2200pF	±10%	4.0	5.5	2.5	445-5293-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H222K
	50	3300pF	±10%	4.0	5.5	2.5	445-5294-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H332K
	50	4700pF	±10%	4.0	5.5	2.5	445-5295-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H472K
	50	6800pF	±10%	4.0	5.5	2.5	445-5296-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H682K
	50	10000pF	±10%	4.0	5.5	2.5	445-5297-ND ***NEW!***	.86	1.26	9.00	FK18X7R1H103K
	50	0.015µF	±10%	4.0	5.5	2.5	445-5298-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H153K
	50	0.022µF	±10%	4.0	5.5	2.5	445-5299-ND ***NEW!***	.95	1.40	10.00	FK18X7R1H223K
	50	0.033µF	±10%	4.0	5.5	2.5	445-5300-ND ***NEW!***	1.05	1.54	11.00	FK18X7R1H333K
	50	0.047µF	±10%	4.0	5.5	2.5	445-5301-ND ***NEW!***	1.05	1.54	11.00	FK18X7R1H473K
	50	0.068µF	±10%	4.0	5.5	2.5	445-5302-ND ***NEW!***	1.14	1.68	12.00	FK18X7R1H683K
	50	0.1µF	±10%	4.0	5.5	2.5	445-5303-ND ***NEW!***	1.05	1.54	11.00	FK18X7R1H104K
	25	0.15µF	±10%	4.0	5.5	2.5	445-5304-ND ***NEW!***	1.05	1.54	11.00	FK18X7R1E154K
	16	0.22µF	±10%	4.0	5.5	2.5	445-5305-ND ***NEW!***	1.14	1.68	12.00	FK18X7R1C224K
	50	0.15µF	±10%	4.5	5.5	2.5	445-5310-ND ***NEW!***	1.19	1.75	12.50	FK14X7R1H154K
	50	0.22µF	±10%	4.5	5.5	2.5	445-5311-ND ***NEW!***	1.31	1.93	13.75	FK14X7R1H224K
	50	0.33µF	±10%	4.5	5.5	2.5	445-5312-ND ***NEW!***	1.43	2.10	15.00	FK14X7R1H334K
	25	0.47µF	±10%	4.5	5.5	2.5	445-5313-ND ***NEW!***	1.43	2.10	15.00	FK14X7R1E474K
	25	0.68µF	±10%	4.5	5.5	2.5	445-5314-ND ***NEW!***	1.66	2.45	17.50	FK14X7R1E684K
	25	1.0µF	±10%	4.5	5.5	2.5	445-5315-ND ***NEW!***	1.78	2.63	18.75	FK14X7R1E105K
	25	1.5µF	±10%	4.5	5.5	2.5	445-5316-ND ***NEW!***	1.90	2.80	20.00	FK14X7R1E155K
	16	0.68µF	±10%	4.5	5.5	2.5	445-5317-ND ***NEW!***	1.43	2.10	15.00	FK14X7R1C684K
	16	1.0µF	±10%	4.5	5.5	2.5	445-5318-ND ***NEW!***	1.57	2.31	16.50	FK14X7R1C105K
	16	1.5µF	±10%	4.5	5.5	2.5	445-5319-ND ***NEW!***	1.81	2.66	19.00	FK14X7R1C155K
	16	2.2µF	±10%	4.5	5.5	2.5	445-5320-ND ***NEW!***	1.76	2.59	18.50	FK14X7R1C225K
	50	0.47µF	±10%	5.5	6.0	3.5	445-5329-ND ***NEW!***	1.85	2.73	19.50	FK16X7R1H474K
	25	0.68µF	±10%	5.5	6.0	3.5	445-5330-ND ***NEW!***	1.90	2.80	20.00	FK16X7R1E684K
	25	1.0µF	±10%	5.5	6.0	3.5	445-5331-ND ***NEW!***	2.02	2.98	21.25	FK16X7R1E105K
	25	1.5µF	±10%	5.5	6.0	3.5	445-5332-ND ***NEW!***	2.14	3.15	22.50	FK16X7R1E155K
	25	2.2µF	±10%	5.5	6.0	3.5	445-5333-ND ***NEW!***	2.26	3.33	23.75	FK16X7R1E225K
	16	3.3µF	±10%	5.5	6.0	3.5	445-5334-ND ***NEW!***	2.09	3.08	22.00	FK16X7R1C335K
	16	4.7µF	±10%	5.5	6.0	3.5	445-5335-ND ***NEW!***	2.19	3.22	23.00	FK16X7R1C475K
	50	0.68µF	±10%	5.5	7.0	4.0	445-5346-ND ***NEW!***	3.33	4.90	35.00	FK11X7R1H684K
	50	1.0µF	±10%	5.5	7.0	4.0	445-5347-ND ***NEW!***	3.68	5.43	38.75	FK11X7R1H105K
	50	1.5µF	±10%	5.5	7.0	4.0	445-5348-ND ***NEW!***	4.04	5.95	42.50	FK11X7R1H155K
	25	2.2µF	±10%	5.5	7.0	4.0	445-5349-ND ***NEW!***	4.56	6.72	48.00	FK11X7R1E225K
	25	3.3µF	±10%	5.5	7.0	4.0	445-5350-ND ***NEW!***	4.75	7.00	50.00	FK11X7R1E335K
	25	4.7µF	±10%	5.5	7.0	4.0	445-5351-ND ***NEW!***	6.89	10.15	72.50	FK11X7R1E475K
	25	6.8µF	±10%	5.5	7.0	4.0	445-5352-ND ***NEW!***	7.60	11.20	80.00	FK11X7R1E685K
	16	10µF	±10%	5.5	7.0	4.0	445-5353-ND ***NEW!***	4.13	6.09	43.50	FK11X7R1C106K
	16	10µF	±20%	5.5	7.0	4.0	445-5354-ND ***NEW!***	4.13	6.09	43.50	FK11X7R1C106M
	16	15µF	±20%	5.5	7.0	4.0	445-5355-ND ***NEW!***	5.23	7.70	55.00	FK11X7R1C156M
X5R (-55°C ~ 85°C)											
1	6.3	4.7µF	±10%	4.5	5.5	2.5	445-2862-ND	1.71	2.52	18.00	FK24X5R0J475K
	6.3	10µF	±10%	4.5	5.5	2.5	445-2863-ND	2.61	3.85	27.50	FK24X5R0J106K
	6.3	10µF	±20%	4.5	5.5	2.5	445-2864-ND	2.38	3.50	25.00	FK24X5R0J106M
	6.3	10µF	±10%	5.5	6.0	3.5	445-2876-ND	3.09	4.55	32.50	FK26X5R0J106K
	6.3	22µF	±20%	5.5	6.0	3.5	445-2878-ND	4.16	6.13	43.75	FK26X5R0J226M
	6.3	22µF	±20%	5.5	7.0	4.0	445-2890-ND	5.11	7.53	53.75	FK20X5R0J226M
	6.3	100µF	±20%	7.5	8.0	4.0	445-2902-ND	17.81	26.25	187.50	FK22X5R0J107M
	10	.47µF	±10%	4.0	5.5	2.5	445-2850-ND	1.14	1.68	12.00	FK28X5R1A474K
	10	1µF	±10%	4.0	5.5	2.5	445-2851-ND	1.43	2.10	15.00	FK28X5R1A105K
	10	2.2µF	±10%	4.5	5.5	2.5	445-2860-ND	1.52	2.24	16.00	FK24X5R1A225K
	10	4.7µF	±10%	4.5	5.5	2.5	445-2861-ND	2.14	3.15	22.50	FK24X5R1A475K
	10	10µF	±10%	5.5	6.0	3.5	445-2874-ND	3.09	4.55	32.50	FK26X5R1A106K
	10	10µF	±20%	5.5	6.0	3.5	445-2875-ND	3.09	4.55	32.50	FK26X5R1A106M
	10	47µF	±20%	7.5	8.0	4.0	445-2901-ND	10.93	16.10	115.00	FK22X5R1A476M
	50	2.2µF	±10%	5.5	7.0	4.0	445-2889-ND	4.28	6.30	45.00	FK20X5R1H225K
	10	0.33µF	±10%	4.0	5.5	2.5	445-5260-ND ***NEW!***	1.14	1.68	12.00	FK28X5R1A334K

Fig.	VDC	Cap.	Cap. Tol.	Dim. (mm)			Digi-Key Part No.	Pricing			TDK Part No.
				L	W	T		5	10	100	
1	10	0.68µF	±10%	4.0	5.5	2.5	445-5261-ND ***NEW!***	1.33	1.96	14.00	FK28X5R1A684K
	10	1.5µF	±10%	4.5	5.5	2.5	445-5268-ND ***NEW!***	1.66	2.45	17.50	FK24X5R1A155K
	10	3.3µF	±10%	4.5	5.5	2.5	445-5269-ND ***NEW!***	1.90	2.80	20.00	FK24X5R1A335K
	6.3	6.8µF	±10%	4.5	5.5	2.5	445-5270-ND ***NEW!***	2.76	4.06	29.00	FK24X5R0J685K
	16	3.3µF	±10%	5.5	6.0	3.5	445-5274-ND ***NEW!***	2.09	3.08	22.00	FK26X5R1C335K
	16	4.7µF	±10%	5.5	6.0	3.5	445-5275-ND ***NEW!***	2.19	3.22	23.00	FK26X5R1C475K
	10	6.8µF	±10%	5.5	6.0	3.5	445-5276-ND ***NEW!***	2.85	4.20	30.00	FK26X5R1A685K
	6.3	6.8µF	±10%	5.5	6.0	3.5	445-5277-ND ***NEW!***	2.85	4.20	30.00	FK26X5R0J685K
	6.3	15µF	±20%	5.5	6.0	3.5	445-5278-ND ***NEW!***	3.80	5.60	40.00	FK26X5R0J156M
	50	3.3µF	±10%	5.5	7.0	4.0	445-5284-ND ***NEW!***	4.75	7.00	50.00	FK20X5R1H335K
	10	15µF	±20%	5.5	7.0	4.0	445-5285-ND ***NEW!***	5.70	8.40	60.00	FK20X5R1A156M
	10	33µF	±20%	7.5	8.0	4.0	445-5289-ND ***NEW!***	10.45	15.40	110.00	FK22X5R1A336M
	6.3	68µF	±20%	7.5	8.0	4.0	445-5290-ND ***NEW!***	19.00	28.00	200.00	FK22X5R0J686M
2	10	0.33µF	±10%	4.0	5.5	2.5	445-5306-ND ***NEW!***	1.14	1.68	12.00	FK18X5R1A334K
	10	0.47µF	±10%	4.0	5.5	2.5	445-5307-ND ***NEW!***	1.14	1.68	12.00	FK18X5R1A474K
	10	0.68µF	±10%	4.0	5.5	2.5	445-5308-ND ***NEW!***	1.33	1.96	14.00	FK18X5R1A684K
	10	1.0µF	±10%	4.0	5.5	2.5	445-5309-ND ***NEW!***	1.43	2.10	15.00	FK18X5R1A105K
	10	1.5µF	±10%	4.5	5.5	2.5	445-5321-ND ***NEW!***	1.66	2.45	17.50	FK14X5R1A155K
	10	2.2µF	±10%	4.5	5.5	2.5	445-5322-ND ***NEW!***	1.52	2.24	16.00	FK14X5R1A225K
	10	3.3µF	±10%	4.5	5.5	2.5	445-5323-ND ***NEW!***	1.90	2.80	20.00	FK14X5R1A335K
	10	4.7µF	±10%	4.5	5.5	2.5	445-5324-ND ***NEW!***	2.14	3.15	22.50	FK14X5R1A475K
	6.3	4.7µF	±10%	4.5	5.5	2.5	445-5325-ND ***NEW!***	1.71	2.52	18.00	FK14X5R0J475K
	6.3	6.8µF	±10%	4.5	5.5	2.5	445-5326-ND ***NEW!***	2.76	4.06	29.00	FK14X5R0J685K
	6.3	10µF	±10%	4.5	5.5	2.5	445-5327-ND ***NEW!***	2.61	3.85	27.50	FK14X5R0J106K
	6.3	10µF	±20%	4.5	5.5	2.5	445-5328-ND ***NEW!***	2.38	3.50	25.00	FK14X5R0J106M
	16	3.3µF	±10%	5.5	6.0	3.5	445-5336-ND ***NEW!***	2.09	3.08	22.00	FK16X5R1C335K
	16	4.7µF	±10%	5.5	6.0	3.5	445-5337-ND ***NEW!***	2.19	3.22	23.00	FK16X5R1C475K
	10	6.8µF	±10%	5.5	6.0	3.5	445-5338-ND ***NEW!***	2.85	4.20	30.00	FK16X5R1A685K
	10	10µF	±10%	5.5	6.0	3.5	445-5339-ND ***NEW!***	3.09	4.55	32.50	FK16X5R1A106K
	10	10µF	±20%	5.5	6.0	3.5	445-5340-ND ***NEW!***	3.09	4.55	32.50	FK16X5R1A106M
	6.3	6.8µF	±10%	5.5	6.0	3.5	445-5341-ND ***NEW!***	2.85	4.20	30.00	FK16X5R0J685K
	6.3	10µF	±10%	5.5	6.0	3.5	445-5342-ND ***NEW!***	3.09	4.55	32.50	FK16X5R0J106K
	6.3	10µF	±20%	5.5	6.0	3.5	445-5343-ND ***NEW!***	3.09	4.55	32.50	FK16X5R0J106M
	6.3	15µF	±20%	5.5	6.0	3.5	445-5344-ND ***NEW!***	3.80	5.60	40.00	FK16X5R0J156M
	6.3	22µF	±20%	5.5	6.0	3.5	445-5345-ND ***NEW!***	4.16	6.13	43.75	FK16X5R0J226M
	50	2.2µF	±10%	5.5	7.0	4.0	445-5356-ND ***NEW!***	4.28	6.30	45.00	FK11X5R1H225K
	50	3.3µF	±10%	5.5	7.0	4.0	445-5357-ND ***NEW!***	4.75	7.00	50.00	FK11X5R1H335K
	10	15µF	±20%	5.5	7.0	4.0	445-5358-ND ***NEW!***	5.70	8.40	60.00	FK11X5R1A156M
	6.3	22µF	±20%	5.5	7.0	4.0	445-5359-ND ***NEW!***	5.11	7.53	53.75	FK11X5R0J226M
Y5V (-30°C ~ 85°C)											
1	6.3	4.7µF	+80, -20%	4.0	5.5	2.5	445-2854-ND	1.31	1.93	13.75	FK28Y5V0J475Z
	6.3	22µF	+80, -20%	4.0	5.5	2.5	445-2869-ND	2.61	3.85	27.50	FK24Y5V0J226Z
	6.3	47µF	+80, -20%	5.5	6.0	3.5	445-2883-ND	3.21	4.73	33.75	FK26Y5V0J476Z
	10	2.2µF	+80, -20%	4.0	5.5	2.5	445-2853-ND	1.24	1.82	13.00	FK28Y5V1A225Z
	10	10µF	+80, -20%	4.5	5.5	2.5	445-2868-ND	1.54	2.28	16.25	FK24Y5V1A106Z
	10	22µF	+80, -20%	5.5	6.0	3.5	445-2882-ND	2.61	3.85	27.50	FK26Y5V1A226Z
	10	47µF	+80, -20%	5.5	7.0	4.0	445-2894-ND	10.21	15.05	107.50	FK20Y5V1A476Z
	10	100µF	+80, -20%	7.5	8.0	4.0	445-2906-ND	17.10	25.20	180.00	FK22Y5V1A107Z
	16	1µF	+80, -20%	4.0	5.5	2.5	445-2852-ND	1.19	1.75	12.50	FK28Y5V1C105Z
	16	4.7µF	+80, -20%	4.5	5.5	2.5	445-2867-ND	1.43	2.10	15.00	FK24Y5V1C475Z
	16	10µF	+80, -20%	5.5	6.0	3.5	445-2881-ND	2.00	2.94	21.00	FK26Y5V1C106Z
	16	47µF	+80, -20%	7.5	8.0	4.0	445-2905-ND	10.21	15.05	107.50	FK22Y5V1C476Z
	25	.47µF	+80, -20%	4.0	5.5	2.5	445-4804-ND	1.09	1.61	11.50	FK28Y5V1E474Z
	25	2.2µF	+80, -20%	4.5	5.5	2.5	445-2866-ND	1.28	1.89	13.50	FK24Y5V1E225Z
	25	4.7µF	+80, -20%	5.5	6.0	3.5	445-2880-ND	1.76	2.59	18.50	FK26Y5V1E475Z
	25	10µF	+80, -20%	5.5	7.0	4.0	445-2892-ND	6.65	9.80	70.00	FK20Y5V1E106Z
	25	22µF	+80, -20%	7.5	8.0	4.0	445-2904-ND	7.84	11.55	82.50	FK22Y5V1E226Z
	50	.10µF	+80, -20%	4.0	5.5	2.5	445-4802-ND	.71	1.05	7.50	FK28Y5V1H104Z
	50	.22µF	+80, -20%	4.0	5.5	2.5	445-4803-ND	.95	1.40	10.00	FK28Y5V1H224Z
	50	.47µF	+80, -20%	4.5	5.5	2.5	445-4811-ND	1.24	1.82	13.00	FK24Y5V1H474Z
	50	1µF	+80, -20%	4.5	5.5	2.5	445-2865-ND	1.28	1.89	13.50	FK24Y5V1H105Z
	50	2.2µF	+80, -20%	5.5	6.0	3.5	445-2879-ND	1.76	2.59	18.50	FK26Y5V1H225Z
	50	4.7µF	+80, -20%	5.5	7.0	4.0	445-2891-ND	4.99	7.35	52.50	FK20Y5V1H475Z
	50	10µF	+80, -20%	7.5	8.0	4.0	445-2903-ND	6.65	9.80	70.00	FK22Y5V1H106Z
2	6.3	4.7µF	+80, -20%	4.0	5.5	2.5	445-4810-ND	1.31	1.93	13.75	FK18Y5V0J475Z
	6.3	22µF	+80, -20%	4.5	5.5	2.5	445-4817-ND	2.61	3.85	27.50	FK14Y5V0J226Z
	6.3	47µF	+80, -20%	5.5	6.0	3.5	445-4822-ND	3.21	4.73	33.75	FK16Y5V0J476Z
	6.3	100µF	+80, -20%	5.5	7.0	4.0	445-4827-ND	16.86	24.85	177.50	FK11Y5V0J107Z
	10	2.2µF	+80, -20%	4.0	5.5	2.5	445-4809-ND	1.24	1.82	13.00	FK18Y5V1A225Z
	10	10µF	+80, -20%	4.5	5.5	2.5	445-4816-ND	1.54	2.28	16.25	FK14Y5V1A106Z
	10	22µF	+80, -20%	5.5	6.0	3.5	445-4821-ND	2.61	3.85	27.50	FK16Y5V1A226Z
	10	47µF	+80, -20%	5.5	7.0	4.0	445-4826-ND	10.21	15.05	107.50	FK11Y5V1A476Z
	16	1µF	+80, -20%	4.0	5.5	2.5	445-4808-ND	1.19	1.75	12.50	FK18Y5V1C105Z
	16	4.7µF	+80, -20%	4.5	5.5	2.5	445-4815-ND	1.43	2.10	15.00	FK14Y5V1C475Z
	16	10µF	+80, -20%	5.5	6.0	3.5	445-4820-ND	2.00	2.94	21.00	FK16Y5V1C106Z
	16	22µF	+80, -20%	5.5	7.0	4.0	445-4825-ND	7.74	11.41	81.50	FK11Y5V1C226Z
	25	.47µF	+80, -20%	4.0	5.5	2.5	445-4807-ND	1.09	1.61	11.50	FK18Y5V1E474Z
	25	2.2µF	+80, -20%	4.5	5.5	2.5	445-4814-ND	1.28	1.89	13.50	FK14Y5V1E225Z
	25	4.7µF	+80, -20%	5.5	6.0	3.5	445-4819-ND	1.76	2.59	18.50	FK16Y5V1E475Z
	25	10µF	+80, -20%	5.5	7.0	4.0	445-4824-ND	6.65	9.80	70.00	FK11Y5V1E106Z
	50	.10µF	+80, -20%	4.0	5.5	2.5	445-4805-ND	.71	1.05	7.50	FK18Y5V1H104Z
	50	.22µF	+80, -20%	4.0	5.5	2.5	445-4806-ND	.95	1.40	10.00	FK18Y5V1H224Z
	50	.47µF	+80, -20%	4.5	5.5	2.5	445-4812-ND	1.24	1.82	13.00	FK14Y5V1H474Z
	50	1µF	+80, -20%	4.5	5.5	2.5	445-4813-ND	1.28	1.89	13.50	FK14Y5V1H105Z
	50	2.2µF	+80, -20%	5.5	6.0	3.5	445-4818-ND	1.76	2.59	18.50	FK16Y5V1H225Z
	50	4.7µF	+80, -20%	5.5	7.0	4.0	445-4823-ND	4.99	7.35	52.50	FK11Y5V1H475Z

TDK

Ceramic Capacitors Low Dissipation at High Frequency

RoHS COMPLIANT

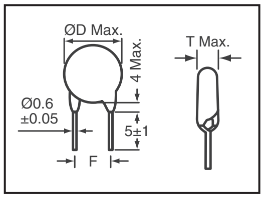

VDC	Cap.	Cap. Tol.	Dimensions - mm D	T	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
CK45-RR Series (-25°C ~ 125°C)										
1kV	100pF	±10%	6	5	5	445-2713-ND	.71	1.05	7.50	CK45-R3AD101K-NR
	120pF	±10%	6	5	5	445-2714-ND	.71	1.05	7.50	CK45-R3AD121K-NR
	150pF	±10%	6	5	5	445-2715-ND	.71	1.05	7.50	CK45-R3AD151K-NR
	180pF	±10%	6	5	5	445-2716-ND	.71	1.05	7.50	CK45-R3AD181K-NR
	220pF	±10%	6	5	5	445-2717-ND	.71	1.05	7.50	CK45-R3AD221K-NR
	330pF	±10%	6.5	5	5	445-2719-ND	.71	1.05	7.50	CK45-R3AD331K-NR
	390pF	±10%	6.5	5	5	445-2720-ND	.71	1.05	7.50	CK45-R3AD391K-NR
	470pF	±10%	7	5	5	445-2721-ND	.71	1.05	7.50	CK45-R3AD471K-NR
	680pF	±10%	8	5	5	445-2723-ND	.71	1.05	7.50	CK45-R3AD681K-NR
	1000pF	±10%	9	5	5	445-2725-ND	.83	1.23	8.75	CK45-R3AD102K-NR
	1500pF	±10%	10	5	5	445-2727-ND	.95	1.40	10.00	CK45-R3AD152K-NR
	2200pF	±10%	11.5	5	7.5	445-2729-ND	1.19	1.75	12.50	CK45-R3AD222K-NR
	3300pF	±10%	13.5	5	7.5	445-2731-ND	1.43	2.10	15.00	CK45-R3AD332K-NR
	3900pF	±10%	14.5	5	7.5	445-2732-ND	1.43	2.10	15.00	CK45-R3AD392K-NR
2kV	150pF	±10%	6	5	5	445-2736-ND	.71	1.05	7.50	CK45-R3DD151K-NR
	180pF	±10%	6.5	5	5	445-2737-ND	.71	1.05	7.50	CK45-R3DD181K-NR
	220pF	±10%	7	5	5	445-2738-ND	.71	1.05	7.50	CK45-R3DD221K-NR
	330pF	±10%	7.5	5	5	445-2740-ND	.71	1.05	7.50	CK45-R3DD331K-NR
	390pF	±10%	8	5	5	445-2741-ND	.83	1.23	8.75	CK45-R3DD391K-NR
	470pF	±10%	8.5	5	5	445-2742-ND	.83	1.23	8.75	CK45-R3DD471K-NR
	560pF	±10%	9	5	5	445-2743-ND	1.07	1.58	11.25	CK45-R3DD561K-NR
	820pF	±10%	10	5	5	445-2745-ND	1.19	1.75	12.50	CK45-R3DD821K-NR
	1000pF	±10%	11	5	5	445-2746-ND	1.19	1.75	12.50	CK45-R3DD102K-NR
	1500pF	±10%	12	5	7.5	445-2748-ND	1.43	2.10	15.00	CK45-R3DD152K-NR
	1800pF	±10%	13.5	5	7.5	445-2749-ND	1.43	2.10	15.00	CK45-R3DD182K-NR
	2200pF	±10%	14.5	5	7.5	445-2750-ND	2.14	3.15	22.50	CK45-R3DD222K-NR
	3900pF	±10%	18	5	10	445-2753-ND	3.09	4.55	32.50	CK45-R3DD392K-NR
	4700pF	±10%	19.5	5	10	445-2754-ND	3.56	5.25	37.50	CK45-R3DD472K-NR
3kV	120pF	±10%	6.5	6	7.5	445-2756-ND	.71	1.05	7.50	CK45-R3FD121K-NR
	150pF	±10%	7	6	7.5	445-2757-ND	.71	1.05	7.50	CK45-R3FD151K-NR
	180pF	±10%	7	6	7.5	445-2758-ND	.71	1.05	7.50	CK45-R3FD181K-NR
	220pF	±10%	7.5	6	7.5	445-2759-ND	.83	1.23	8.75	CK45-R3FD221K-NR
	270pF	±10%	8	6	7.5	445-2760-ND	.83	1.23	8.75	CK45-R3FD271K-NR
	330pF	±10%	8.5	6	7.5	445-2761-ND	.83	1.23	8.75	CK45-R3FD331K-NR
	390pF	±10%	9	6	7.5	445-2762-ND	.83	1.23	8.75	CK45-R3FD391K-NR
	470pF	±10%	9.5	6	7.5	445-2763-ND	1.19	1.75	12.50	CK45-R3FD471K-NR
	560pF	±10%	10	6	7.5	445-2764-ND	1.19	1.75	12.50	CK45-R3FD561K-NR
	820pF	±10%	11.5	6	7.5	445-2766-ND	1.43	2.10	15.00	CK45-R3FD821K-NR
	1000pF	±10%	12	6	7.5	445-2767-ND	1.90	2.80	20.00	CK45-R3FD102K-NR
	1200pF	±10%	13	6	7.5	445-2768-ND	2.38	3.50	25.00	CK45-R3FD122K-NR
	1500pF	±10%	14.5	6	7.5	445-2769-ND	2.38	3.50	25.00	CK45-R3FD152K-NR
	1800pF	±10%	15.5	6	10	445-2770-ND	2.38	3.50	25.00	CK45-R3FD182K-NR
	2200pF	±10%	16.5	6	10	445-2771-ND	2.97	4.38	31.25	CK45-R3FD222K-NR
CC45 Series (-20°C ~ 85°C)										
1kV	10pF	±5%	5.5	5	5	445-2773-ND	1.19	1.75	12.50	CC45SL3AD100JYNN
	12pF	±5%	5.5	5	5	445-2774-ND	1.19	1.75	12.50	CC45SL3AD120JYNN

VDC	Cap.	Cap. Tol.	Dimensions - mm D	T	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
1kV	15pF	±5%	5.5	5	5	445-2775-ND	1.19	1.75	12.50	CC45SL3AD150JYNN
	18pF	±5%	5.5	5	5	445-2776-ND	1.19	1.75	12.50	CC45SL3AD180JYNN
	22pF	±5%	5.5	5	5	445-2777-ND	1.19	1.75	12.50	CC45SL3AD220JYNN
	33pF	±5%	5.5	5	5	445-2779-ND	1.19	1.75	12.50	CC45SL3AD330JYNN
	47pF	±5%	5.5	5	5	445-2781-ND	1.19	1.75	12.50	CC45SL3AD470JYNN
	68pF	±5%	5.5	5	5	445-2783-ND	1.19	1.75	12.50	CC45SL3AD680JYNN
	82pF	±5%	6	5	5	445-2784-ND	1.19	1.75	12.50	CC45SL3AD820JYNN
	100pF	±5%	6.5	5	5	445-2785-ND	1.19	1.75	12.50	CC45SL3AD101JYNN
	120pF	±5%	7	5	5	445-2786-ND	1.19	1.75	12.50	CC45SL3AD121JYNN
	180pF	±5%	8	5	5	445-2788-ND	1.19	1.75	12.50	CC45SL3AD181JYNN
	220pF	±5%	8.5	5	5	445-2789-ND	1.19	1.75	12.50	CC45SL3AD221JYNN
	270pF	±5%	9	5	5	445-2790-ND	1.19	1.75	12.50	CC45SL3AD271JYNN
	330pF	±5%	10	5	5	445-2791-ND	1.19	1.75	12.50	CC45SL3AD331JYNN
	390pF	±5%	10.5	5	5	445-2792-ND	1.19	1.75	12.50	CC45SL3AD391JYNN
2kV	12pF	±5%	5.5	5	5	445-2799-ND	1.43	2.10	15.00	CC45SL3DD120JYNN
	15pF	±5%	5.5	5	5	445-2800-ND	1.43	2.10	15.00	CC45SL3DD150JYNN
	18pF	±5%	5.5	5	5	445-2801-ND	1.43	2.10	15.00	CC45SL3DD180JYNN
	22pF	±5%	5.5	5	5	445-2802-ND	1.43	2.10	15.00	CC45SL3DD220JYNN
	27pF	±5%	5.5	5	5	445-2803-ND	1.43	2.10	15.00	CC45SL3DD270JYNN
	33pF	±5%	5.5	5	5	445-2804-ND	1.43	2.10	15.00	CC45SL3DD330JYNN
	39pF	±5%	5.5	5	5	445-2805-ND	1.43	2.10	15.00	CC45SL3DD390JYNN
	68pF	±5%	6.5	5	5	445-2808-ND	1.43	2.10	15.00	CC45SL3DD680JYNN
	100pF	±5%	7.5	5	5	445-2810-ND	1.43	2.10	15.00	CC45SL3DD101JYNN
	120pF	±5%	8	5	5	445-2811-ND	1.43	2.10	15.00	CC45SL3DD121JYNN
	150pF	±5%	8.5	5	5	445-2812-ND	1.43	2.10	15.00	CC45SL3DD151JYNN
	180pF	±5%	9	5	5	445-2813-ND	1.43	2.10	15.00	CC45SL3DD181JYNN
	220pF	±5%	10	5	5	445-2814-ND	1.43	2.10	15.00	CC45SL3DD221JYNN
	270pF	±5%	11	5	5	445-2815-ND	1.43	2.10	15.00	CC45SL3DD271JYNN
	330pF	±5%	11.5	5	7.5	445-2816-ND	1.43	2.10	15.00	CC45SL3DD331JYNN
	390pF	±5%	12.5	5	7.5	445-2817-ND	1.43	2.10	15.00	CC45SL3DD391JYNN
	470pF	±5%	13.5	5	7.5	445-2818-ND	2.38	3.50	25.00	CC45SL3DD471JYNN
	560pF	±5%	14.5	5	7.5	445-2819-ND	2.38	3.50	25.00	CC45SL3DD561JYNN
3kV	10pF	±5%	5.5	6	7.5	445-2821-ND	1.43	2.10	15.00	CC45SL3FD100JYNN
	15pF	±5%	5.5	6	7.5	445-2823-ND	1.43	2.10	15.00	CC45SL3FD150JYNN
	18pF	±5%	5.5	6	7.5	445-2824-ND	1.43	2.10	15.00	CC45SL3FD180JYNN
	22pF	±5%	5.5	6	7.5	445-2825-ND	1.43	2.10	15.00	CC45SL3FD220JYNN
	27pF	±5%	5.5	6	7.5	445-2826-ND	1.43	2.10	15.00	CC45SL3FD270JYNN
	33pF	±5%	6	6	7.5	445-2827-ND	1.43	2.10	15.00	CC45SL3FD330JYNN
	39pF	±5%	6	6	7.5	445-2828-ND	1.43	2.10	15.00	CC45SL3FD390JYNN
	56pF	±5%	7	6	7.5	445-2830-ND	1.43	2.10	15.00	CC45SL3FD560JYNN
	68pF	±5%	7.5	6	7.5	445-2831-ND	1.43	2.10	15.00	CC45SL3FD680JYNN
	82pF	±5%	8	6	7.5	445-2832-ND	1.43	2.10	15.00	CC45SL3FD820JYNN
	120pF	±5%	9.5	6	7.5	445-2834-ND	1.66	2.45	17.50	CC45SL3FD121JYNN
	150pF	±5%	10	6	7.5	445-2835-ND	1.90	2.80	20.00	CC45SL3FD151JYNN
	180pF	±5%	11	6	7.5	445-2836-ND	2.38	3.50	25.00	CC45SL3FD181JYNN
	220pF	±5%	12	6	7.5	445-2837-ND	2.85	4.20	30.00	CC45SL3FD221JYNN
	270pF	±5%	13	6	7.5	445-2838-ND	2.85	4.20	30.00	CC45SL3FD271JYNN
	330pF	±5%	14	6	7.5	445-2839-ND	3.56	5.25	37.50	CC45SL3FD331JYNN
	390pF	±5%	15	6	7.5	445-2840-ND	3.56	5.25	37.50	CC45SL3FD391JYNN
6kV	12pF	±5%	7.5	6	7.5	445-2843-ND	1.66	2.45	17.50	CC45SL3JD120JYNN
	15pF	±5%	7.5	6	7.5	445-2844-ND	1.66	2.45	17.50	CC45SL3JD150JYNN
	18pF	±5%	7.5	6	7.5	445-2845-ND	1.66	2.45	17.50	CC45SL3JD180JYNN
	27pF	±5%	7.5	6	7.5	445-2847-ND	1.66	2.45	17.50	CC45SL3JD270JYNN
	33pF	±5%	7.5	6	7.5	445-2848-ND	1.66	2.45	17.50	CC45SL3JD330JYNN

UNITED CHEMI-CON

KTJ Series Stacked Multilayer Ceramic Capacitors

Digi-Reel® RoHS COMPLIANT

Features: • Small size and large capacitance • High ripple current • Excellent noise absorption
Applications: • Smoothing circuit of switch mode AC-DC or DC-DC converter • On-board power supply • Noise suppressor for various kinds of equipment
Specifications: • Dielectric: X7R • Ripple Current: 3.0Arms (10KHz ~ 1MHz sine curve) • Ripple voltage must be less than the rated voltage

Dimensions in mm

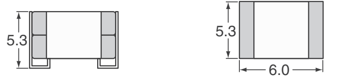

Rated Voltage (VDC)	Rated Capacitance (uF)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Tape and Reel† Pricing 2,000	United Chemi-Con Part No.
25	33	565-3236-1-ND	46.75	87.47	214.90	3770.10/M	KTJ250B336M55BFT00
25	47	565-3237-1-ND	47.84	89.50	219.89	3857.80/M	KTJ250B476M55BFT00
50	15	565-3238-1-ND	38.58	72.48	169.51	2981.04/M	KTJ500B156M55BFT00
50	22	565-3239-1-ND	38.00	71.39	166.97	2936.29/M	KTJ500B226M55BFT00
100	6.8	565-3240-1-ND	40.59	75.94	186.58	3273.25/M	KTJ101B685M55BFT00
100	10	565-3241-1-ND	41.68	77.97	191.57	3360.94/M	KTJ101B106M55BFT00
100	15	565-3242-1-ND	42.40	79.33	194.91	3419.39/M	KTJ101B156M55BFT00
250	1.5	565-3243-1-ND	40.89	76.83	179.68	3159.87/M	KTJ251B155M55BFT00
250	2.2	565-3244-1-ND	38.78	72.55	178.25	3127.12/M	KTJ251B225M55BFT00

† For Tape and Reel part number, change 1-ND to 2-ND.

UNITED CHEMI-CON

High Capacitance Dipped Radial Leaded Multilayer Ceramic Capacitors

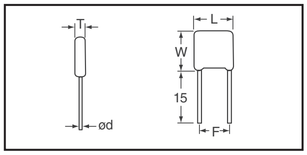

Features: • Small size and large capacitance • High ripple current • Y5U temperature characteristic • Excellent noise absorption • Superior humidity characteristic • Long life • Resin (UL94V-0) used for coating

Applications: • Automotive equipment • Smoothing circuit of switching mode AC-DC or DC-DC converter • Noise suppressor for various kinds of equipment • By-pass or decoupling circuits

Voltage (VDC)	Capacitance (µF)	Maximum Ripple Current (Arms)	Dimensions mm L max.	W max.	T max.	F±0.8	ød±0.05	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
16	15	0.8	6.5	7.5	4.0	5.0	0.5	565-3260-ND	4.08	3.67	2.78	KHD160E156M43A0B00
	47	1.0	8.0	9.0	4.5	5.0	0.5	565-3261-ND	5.93	5.34	4.03	KHD160E476M55A0B00
	100	1.5	10.0	11.5	4.5	5.0	0.5	565-3262-ND	8.01	7.12	5.70	KHD160E107M76A0B00
	150	2.0	13.5	15.0	5.0	10.0	0.6	565-3263-ND	25.25	23.93	19.28	KHD160E157M80A0B00
	470	3.0	22.5	20.0	6	20.0	0.8	565-3264-ND	64.35	60.33	52.29	KHD160E477M90C0B00
	680	4.0	28.5	20.0	7.5	25.0	0.8	565-3265-ND	62.93	59.44	48.07	KHD160E687M99C0B00
25	4.7	0.3	5.0	6.5	3.5	5.0	0.5	565-3266-ND	2.48	1.94	1.54	KHD250E475M32A0B00
	10	0.8	6.5	7.0	3.5	5.0	0.5	565-3267-ND	2.99	2.34	1.85	KHD250E106M43A0B00
	15	0.8	6.5	7.0	4.0	5.0	0.5	565-3268-ND	3.37	2.63	2.08	KHD250E156M43A0B00
	22	1.0	7.5	9.0	4.0	5.0	0.5	565-3269-ND	4.37	3.53	2.75	KHD250E226M55A0B00
	47	1.5	10.0	11.5	4.5	5.0	0.5	565-3270-ND	5.18	4.66	3.52	KHD250E476M76A0B00
	100	2.0	13.5	15.0	5.5	10.0	0.6	565-3271-ND	13.14	12.49	9.86	KHD250E107M80A0B00
	150	3.0	22.5	20.0	6.0	20.0	0.8	565-3272-ND	23.07	21.86	17.61	KHD250E157M90C0B00
	470	4.0	28.5	20.0	7.5	25.0	0.8	565-3273-ND	37.75	35.65	28.84	KHD250E477M99C0B00
50	10	1.0	7.5	9.0	4.0	5.0	0.5	565-3274-ND	3.53	2.85	2.23	KHD500E106M55A0B00
	15	1.0	7.5	9.0	4.5	5.0	0.5	565-3275-ND	4.12	3.33	2.60	KHD500E156M55A0B00
	47	3.0	22.5	20.0	6.0	20.0	0.8	565-3276-ND	19.04	18.09	14.28	KHD500E476M90C0B00
	100	3.0	22.5	20.0	6.0	20.0	0.8	565-3277-ND	22.17	21.01	16.93	KHD500E107M90C0B00
	150	4.0	28.5	20.0	7.5	25.0	0.8	565-3278-ND	30.57	28.97	23.34	KHD500E157M99C0B00
	220	4.0	28.5	20.0	7.5	25.0	0.8	565-3279-ND	34.26	32.46	26.15	KHD500E227M99C0B00
100	0.47	0.3	5.0	6.5	3.0	5.0	0.5	565-3280-ND	2.11	1.65	1.31	KHD101E474M32A0B00
	1.0	0.8	6.5	7.0	3.5	5.0	0.5	565-3281-ND	2.31	1.81	1.43	KHD101E105M43A0B00
	1.5	0.8	6.5	7.0	3.5	5.0	0.5	565-3282-ND	2.41	1.89	1.50	KHD101E155M43A0B00
	4.7	1.0	7.5	9.0	4.5	5.0	0.5	565-3283-ND	3.44	2.78	2.17	KHD101E475M55A0B00
	10	2.0	13.5	15.0	5.0	10.0	0.6	565-3284-ND	8.39	7.46	5.97	KHD101E106M80A0B00
	15	2.0	13.5	15.0	5.0	10.0	0.6	565-3285-ND	9.29	8.26	6.61	KHD101E156M80A0B00
	47	4.0	28.5	20.0	7.5	25.0	0.8	565-3286-ND	25.52	24.18	19.48	KHD101E476M99C0B00
	100	4.0	28.5	20.0	7.5	25.0	0.8	565-3287-ND	34.87	33.03	26.61	KHD101E107M99C0B00
250	0.10	0.8	6.5	7.0	3.5	5.0	0.5	565-3288-ND	2.21	1.73	1.37	KHD251E104M43A0B00
	0.15	0.8	6.5	7.0	3.5	5.0	0.5	565-3289-ND	2.24	1.75	1.39	KHD251E154M43A0B00
	0.47	1.0	7.5	9.0	4.0	5.0	0.5	565-3290-ND	2.99	2.34	1.85	KHD251E474M55A0B00
	1.0	1.5	10.0	11.5	4.5	5.0	0.5	565-3291-ND	3.69	2.98	2.33	KHD251E105M76A0B00
	1.5	1.5	10.0	11.5	4.5	5.0	0.5	565-3292-ND	4.09	3.30	2.58	KHD251E155M76A0B00
	4.7	3.0	22.5	20.0	6.0	20.0	0.8	565-3293-ND	13.72	13.04	10.29	KHD251E475M90C0B00
	10	4.0	28.5	20.0	7.5	25.0	0.8	565-3294-ND	22.72	21.53	17.35	KHD251E106M99C0B00
	15	4.0	28.5	20.0	7.5	25.0	0.8	565-3295-ND	25.78	24.43	19.68	KHD251E156M99C0B00

VISHAY Vitramon

Multilayer Ceramic Chip Capacitors - Prohibits Surface Arc-over in High Voltage Applications - VJ HVArc Guard™ Series

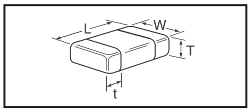

Features: • Protects against surface arc-over • Higher capacitance and smaller case size that save board space • Voltage breakdowns are twice that of some competitor products • Excellent reliability and high voltage performance

Applications: • DC-to-DC converters (Buck and Boost) • Voltage multipliers for flyback converters • Lighting ballast circuits • Power supplies

Electrical Specifications: • Temperature Coefficient of Capacitance: • **X7R:** ≤15% from -55°C ~ 125°C, with 0 Vdc applied • **C0G (NP0):** 0 ±30ppm/°C from -55°C ~ 125°C

Size Code	Dimensions - mm L	W	T	t
0805	2.00 ±0.20	1.25 ±0.020	1.45	0.25 ~ 0.71
1206	3.20 ±0.20	1.60 ±0.20	1.86	0.25 ~ 0.76
1210	3.20 ±0.20	2.50 ±0.20	1.86	0.25 ~ 0.76
1808	4.50 ±0.25	2.03 ±0.25	1.86	0.25 ~ 0.76
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 ~ 0.76

Typical X7R Voltage Breakdown
(n = 50, 500 V/sec. applied)

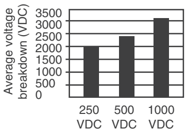

Typical COG (NPO) Voltage Breakdown
(n = 50, 500 V/sec. applied)

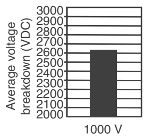

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
0805	C0G (NP0)	1,000V	10pF	±5%	720-1070-1-ND	.82	6.85	42.92	720-1070-2-ND	3,000	163.52/M	VJ0805A100JXGAT5Z
	C0G (NP0)	1,000V	22pF	±5%	720-1072-1-ND	.82	6.85	42.92	720-1072-2-ND	3,000	163.52/M	VJ0805A220JXGAT5Z
	C0G (NP0)	1,000V	47pF	±5%	720-1074-1-ND	.82	6.85	42.92	720-1074-2-ND	3,000	163.52/M	VJ0805A470JXGAT5Z
	C0G (NP0)	1,000V	100pF	±5%	720-1071-1-ND	.82	6.85	42.92	720-1071-2-ND	3,000	163.52/M	VJ0805A101JXGAT5Z
	C0G (NP0)	1,000V	220pF	±5%	720-1073-1-ND	.90	7.53	47.21	720-1073-2-ND	3,000	179.84/M	VJ0805A221JXGAT5Z
1206	C0G (NP0)	1,000V	10pF	±5%	720-1010-1-ND	.91	7.74	52.56	720-1010-2-ND	2,500	219.00/M	VJ1206A100JXGAT5Z
	C0G (NP0)	1,000V	22pF	±5%	720-1013-1-ND	.91	7.74	52.56	720-1013-2-ND	2,500	219.00/M	VJ1206A220JXGAT5Z
	C0G (NP0)	1,000V	47pF	±5%	720-1015-1-ND	.91	7.74	52.56	720-1015-2-ND	2,500	219.00/M	VJ1206A470JXGAT5Z
	C0G (NP0)	1,000V	100pF	±5%	720-1011-1-ND	.91	7.74	52.56	720-1011-2-ND	2,500	219.00/M	VJ1206A101JXGAT5Z
	C0G (NP0)	1,000V	220pF	±5%	720-1014-1-ND	1.00	8.51	57.82	720-1014-2-ND	2,500	240.90/M	VJ1206A221JXGAT5Z
	C0G (NP0)	1,000V	470pF	±5%	720-1016-1-ND	1.00	8.51	57.82	720-1016-2-ND	2,500	240.90/M	VJ1206A471JXGAT5Z
	C0G (NP0)	1,000V	1,000pF	±5%	720-1012-1-ND	1.05	8.90	60.44	720-1012-2-ND	2,500	251.86/M	VJ1206A102JXGAT5Z
	X7R	500V	100pF	±10%	720-1017-1-ND	.99	8.31	52.12	720-1017-2-ND	2,500	198.56/M	VJ1206Y101KXEAT5Z
	X7R	500V	220pF	±10%	720-1023-1-ND	.99	8.31	52.12	720-1023-2-ND	2,500	198.56/M	VJ1206Y221KXEAT5Z
	X7R	500V	470pF	±10%	720-1029-1-ND	.99	8.31	52.12	720-1029-2-ND	2,500	198.56/M	VJ1206Y471KXEAT5Z
	X7R	500V	1,000pF	±10%	720-1019-1-ND	.90	7.52	47.12	720-1019-2-ND	2,500	179.52/M	VJ1206Y102KXEAT5Z
	X7R	500V	2,200pF	±10%	720-1025-1-ND	.96	8.05	50.44	720-1025-2-ND	2,500	192.16/M	VJ1206Y222KXEAT5Z
	X7R	500V	4,700pF	±10%	720-1031-1-ND	.83	7.00	47.56	720-1031-2-ND	2,500	198.16/M	VJ1206Y472KXEAT5Z
	X7R	500V	0.01µF	±10%	720-1021-1-ND	.83	7.00	47.56	720-1021-2-ND	2,500	198.16/M	VJ1206Y103KXEAT5Z
	X7R	500V	0.022µF	±10%	720-1027-1-ND	.89	7.56	51.37	720-1027-2-ND	2,500	214.06/M	VJ1206Y223KXEAT5Z
	X7R	500V	0.047µF	±10%	720-1033-1-ND	1.08	9.16	62.24	720-1033-2-ND	2,500	259.36/M	VJ1206Y473KXEAT5Z
	X7R	1,000V	100pF	±10%	720-1018-1-ND	1.05	8.75	64.24	720-1018-2-ND	2,500	270.00/M	VJ1206Y101KXGAT5Z
	X7R	1,000V	220pF	±10%	720-1024-1-ND	1.05	8.75	64.24	720-1024-2-ND	2,500	270.00/M	VJ1206Y221KXGAT5Z
	X7R	1,000V	470pF	±10%	720-1030-1-ND	.91	7.74	52.56	720-1030-2-ND	2,500	219.00/M	VJ1206Y471KXGAT5Z
	X7R	1,000V	1,000pF	±10%	720-1020-1-ND	1.02	8.50	53.30	720-1020-2-ND	3,000	203.04/M	VJ1206Y102KXGAT5Z
	X7R	1,000V	2,200pF	±10%	720-1026-1-ND	.86	7.32	49.72	720-1026-2-ND	3,000	207.15/M	VJ1206Y222KXGAT5Z
	X7R	1,000V	4,700pF	±10%	720-1032-1-ND	.86	7.32	49.72	720-1032-2-ND	3,000	207.15/M	VJ1206Y472KXGAT5Z
	X7R	1,000V	0.01µF	±10%	720-1022-1-ND	1.11	9.31	68.34	720-1022-2-ND	3,000	287.25/M	VJ1206Y103KXGAT5Z
	X7R	1,000V	0.022µF	±10%	720-1028-1-ND	1.20	10.06	73.83	720-1028-2-ND	2,500	310.30/M	VJ1206Y223KXGAT5Z

(Continued)

Multilayer Ceramic Chip Capacitors - Prohibits Surface Arc-over in High Voltage Applications - VJ HVArc Guard™ Series *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
1210	C0G (NP0)	1,000V	10pF	±5%	720-1034-1-ND	1.37	11.23	90.42	720-1034-2-ND	2,500	383.60/M	VJ1210A100JXGAT5Z
	C0G (NP0)	1,000V	22pF	±5%	720-1037-1-ND	1.37	11.23	90.42	720-1037-2-ND	2,500	383.60/M	VJ1210A220JXGAT5Z
	C0G (NP0)	1,000V	47pF	±5%	720-1040-1-ND	1.37	11.23	90.42	720-1040-2-ND	2,500	383.60/M	VJ1210A470JXGAT5Z
	C0G (NP0)	1,000V	100pF	±5%	720-1035-1-ND	1.09	9.14	67.07	720-1035-2-ND	2,500	281.88/M	VJ1210A101JXGAT5Z
	C0G (NP0)	1,000V	220pF	±5%	720-1038-1-ND	1.09	9.14	67.07	720-1038-2-ND	2,500	281.88/M	VJ1210A221JXGAT5Z
	C0G (NP0)	1,000V	470pF	±5%	720-1041-1-ND	1.20	10.05	73.76	720-1041-2-ND	2,500	310.02/M	VJ1210A471JXGAT5Z
	C0G (NP0)	1,000V	1,000pF	±5%	720-1036-1-ND	1.20	10.05	73.76	720-1036-2-ND	2,500	310.02/M	VJ1210A102JXGAT5Z
	C0G (NP0)	1,000V	2,200pF	±5%	720-1039-1-ND	1.37	11.42	83.84	720-1039-2-ND	2,500	352.36/M	VJ1210A222JXGAT5Z
	X7R	500V	100pF	±10%	720-1042-1-ND	.99	8.42	57.20	720-1042-2-ND	2,500	238.36/M	VJ1210Y101KXEAT5Z
	X7R	500V	220pF	±10%	720-1048-1-ND	1.05	8.89	60.37	720-1048-2-ND	2,500	251.56/M	VJ1210Y221KXEAT5Z
	X7R	500V	470pF	±10%	720-1054-1-ND	1.10	9.36	63.58	720-1054-2-ND	2,500	264.90/M	VJ1210Y471KXEAT5Z
	X7R	500V	1,000pF	±10%	720-1044-1-ND	1.10	9.36	63.58	720-1044-2-ND	2,500	264.90/M	VJ1210Y102KXEAT5Z
	X7R	500V	2,200pF	±10%	720-1050-1-ND	1.29	10.80	79.28	720-1050-2-ND	2,500	333.22/M	VJ1210Y222KXEAT5Z
	X7R	500V	4,700pF	±10%	720-1056-1-ND	1.29	10.80	79.28	720-1056-2-ND	2,500	333.22/M	VJ1210Y472KXEAT5Z
	X7R	500V	0.01µF	±10%	720-1046-1-ND	1.14	9.50	69.72	720-1046-2-ND	2,500	293.05/M	VJ1210Y103KXEAT5Z
	X7R	500V	0.022µF	±10%	720-1052-1-ND	1.19	9.93	72.90	720-1052-2-ND	2,500	306.39/M	VJ1210Y223KXEAT5Z
	X7R	500V	0.047µF	±10%	720-1058-1-ND	1.64	13.46	108.34	720-1058-2-ND	2,500	459.62/M	VJ1210Y473KXEAT5Z
	X7R	1,000V	100pF	±10%	720-1043-1-ND	1.09	9.27	62.96	720-1043-2-ND	2,500	262.36/M	VJ1210Y101KXGAT5Z
	X7R	1,000V	470pF	±10%	720-1055-1-ND	1.09	9.14	67.07	720-1055-2-ND	2,500	281.88/M	VJ1210Y471KXGAT5Z
	X7R	1,000V	1,000pF	±10%	720-1045-1-ND	1.09	9.14	67.07	720-1045-2-ND	2,500	281.88/M	VJ1210Y102KXGAT5Z
	X7R	1,000V	2,200pF	±10%	720-1051-1-ND	1.36	11.37	83.46	720-1051-2-ND	2,500	350.76/M	VJ1210Y222KXGAT5Z
	X7R	1,000V	4,700pF	±10%	720-1057-1-ND	1.36	11.37	83.46	720-1057-2-ND	2,500	350.76/M	VJ1210Y472KXGAT5Z
	X7R	1,000V	0.01µF	±10%	720-1047-1-ND	1.36	11.37	83.46	720-1047-2-ND	2,500	350.76/M	VJ1210Y103KXGAT5Z
	X7R	1,000V	0.022µF	±10%	720-1053-1-ND	1.59	13.00	104.61	720-1053-2-ND	2,500	443.80/M	VJ1210Y223KXGAT5Z
	X7R	1,000V	0.047µF	±10%	720-1059-1-ND	2.46	20.19	162.53	720-1059-2-ND	2,500	689.50/M	VJ1210Y473KXGAT5Z
1808	X7R	250V	0.10µF	±10%	720-1063-1-ND	1.97	16.11	129.69	720-1063-2-ND	2,000	550.20/M	VJ1808Y104KXPAT5Z
	X7R	500V	220pF	±10%	720-1064-1-ND	1.76	14.45	116.33	720-1064-2-ND	2,000	493.50/M	VJ1808Y221KXEAT5Z
	X7R	500V	1,000pF	±10%	720-1061-1-ND	1.76	14.45	116.33	720-1061-2-ND	2,500	493.50/M	VJ1808Y102KXEAT5Z
	X7R	500V	2,200pF	±10%	720-1065-1-ND	1.76	14.45	116.33	720-1065-2-ND	2,500	493.50/M	VJ1808Y222KXEAT5Z
	X7R	500V	4,700pF	±10%	720-1068-1-ND	1.76	14.45	116.33	720-1068-2-ND	2,500	493.50/M	VJ1808Y472KXEAT5Z
	X7R	500V	0.01µF	±10%	720-1062-1-ND	1.57	12.83	103.29	720-1062-2-ND	2,500	438.20/M	VJ1808Y103KXEAT5Z
	X7R	500V	0.022µF	±10%	720-1066-1-ND	1.57	12.83	103.29	720-1066-2-ND	2,500	438.20/M	VJ1808Y223KXEAT5Z
	X7R	500V	0.047µF	±10%	720-1069-1-ND	1.76	14.43	116.16	720-1069-2-ND	2,500	492.80/M	VJ1808Y473KXEAR5Z
1812	X7R	250V	0.22µF	±10%	720-1006-1-ND	2.09	17.34	153.00	720-1006-2-ND	1,000	714.00	VJ1812Y224KXPAT5Z
	X7R	500V	100pF	±10%	720-1000-1-ND	1.76	14.45	116.33	720-1000-2-ND	1,000	528.75	VJ1812Y101KXEAT5Z
	X7R	500V	220pF	±10%	720-1004-1-ND	1.76	14.45	116.33	720-1004-2-ND	1,000	528.75	VJ1812Y221KXEAT5Z
	X7R	500V	470pF	±10%	720-1007-1-ND	1.76	14.45	116.33	720-1007-2-ND	1,000	528.75	VJ1812Y471KXEAT5Z
	X7R	500V	1,000pF	±10%	720-1001-1-ND	1.76	14.45	116.33	720-1001-2-ND	1,000	528.75	VJ1812Y102KXEAT5Z
	X7R	500V	2,200pF	±10%	720-1005-1-ND	1.76	14.45	116.33	720-1005-2-ND	1,000	528.75	VJ1812Y222KXEAT5Z
	X7R	500V	4,700pF	±10%	720-1008-1-ND	1.76	14.45	116.33	720-1008-2-ND	1,000	528.75	VJ1812Y472KXEAT5Z
	X7R	500V	0.01µF	±10%	720-1002-1-ND	1.57	12.83	103.29	720-1002-2-ND	1,000	469.50	VJ1812Y103KXEAT5Z
	X7R	500V	0.047µF	±10%	720-1009-1-ND	1.76	14.43	116.16	720-1009-2-ND	1,000	528.00	VJ1812Y473KXEAT5Z
	X7R	500V	0.10µF	±10%	720-1003-1-ND	2.12	17.34	139.59	720-1003-2-ND	1,000	634.50	VJ1812Y104KXEAT5Z

Multilayer Ceramic Chip Capacitors - for Boardflex Sensitive Applications - VJ OMD Series

Features: • OMD-Cap (Open Mode Design) reduce the risk of short or low IR because of board flex cracks • Efficient low-power consumption, ripple current capable to 1.2 Arms at 100kHz • High Voltage breakdown compared to standard design • Excellent reliability and thermal shock performance • Polymer terminations, which increase resistance to board flex cracking as much as 50%

Applications: • Buck and Boost DC-to-DC converters • Voltage multipliers for flyback converters • Lighting ballast circuits • High frequency filtering for switching power supplies

Electrical Specifications: • Temperature Coefficient of Capacitance: • **X7R:** ±15% from -55°C ~ 125°C, with 0 Vdc applied • **C0G (NP0):** 0 ±30ppm/°C from -55°C ~ 125°C

Size Code	Dimensions - mm			
	L	W	T	t
1206	3.20 ±0.20	1.60 ±0.20	1.7	0.25 ~ 0.71
1210	3.20 ±0.20	2.50 ±0.20	1.7	0.25 ~ 0.71
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 ~ 0.76
1825	4.50 ±0.25	6.40 ±0.25	2.18	0.25 ~ 0.76
2220	5.59 ±0.20	5.00 ±0.20	2.18	0.25 ~ 0.76
2225	5.59 ±0.25	6.35 ±0.25	2.18	0.25 ~ 0.76

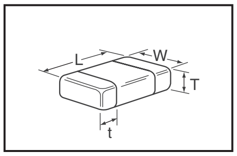

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
1206	X7R	100V	4,700pF	±10%	720-1075-1-ND	.84	7.13	48.46	720-1075-2-ND	3,000	201.90/M	VJ1206Y472KBBAT4X
	X7R	100V	0.01µF	±10%	720-1087-1-ND	1.01	8.49	53.21	720-1087-2-ND	2,500	202.72/M	VJ1206Y103KBBAT4X
	X7R	100V	0.047µF	±10%	720-1084-1-ND	.99	8.40	57.06	720-1084-2-ND	2,500	237.76/M	VJ1206Y473KBBAT4X
	X7R	100V	0.10µF	±10%	720-1086-1-ND	1.04	8.66	63.58	720-1086-2-ND	2,500	267.24/M	VJ1206Y104KBBAT4X
	X7R	500V	470pF	±10%	720-1076-1-ND	.84	7.13	48.46	720-1076-2-ND	3,000	201.90/M	VJ1206Y471KBEAT4X
	X7R	500V	1,000pF	±10%	720-1077-1-ND	.98	8.22	51.53	720-1077-2-ND	3,000	196.32/M	VJ1206Y102KBEAT4X
	X7R	500V	0.022µF	±10%	720-1085-1-ND	.96	8.12	55.15	720-1085-2-ND	2,500	229.80/M	VJ1206Y223KBEAT4X
1210	X7R	50V	0.47µF	±10%	720-1080-1-ND	2.37	19.41	156.26	720-1080-2-ND	2,500	662.90/M	VJ1210Y474KBAAT4X
	X7R	100V	0.01µF	±10%	720-1083-1-ND	1.17	9.79	71.83	720-1083-2-ND	2,500	301.90/M	VJ1210Y103KBBAT4X
	X7R	100V	0.10µF	±10%	720-1082-1-ND	1.28	10.48	84.32	720-1082-2-ND	2,500	357.70/M	VJ1210Y104KBBAT4X
	X7R	100V	0.22µF	±10%	720-1081-1-ND	1.76	14.42	116.03	720-1081-2-ND	2,500	492.24/M	VJ1210Y224KBBAT4X
1812	C0G (NP0)	50V	2,200pF	±10%	720-1109-1-ND	2.10	17.20	138.44	720-1109-2-ND	1,000	629.25	VJ1812A222KBAAT4X
	C0G (NP0)	100V	4,700pF	±10%	720-1108-1-ND	2.10	17.20	138.44	720-1108-2-ND	1,000	629.25	VJ1812A472KBBAT4X
	C0G (NP0)	500V	1,000pF	±10%	720-1110-1-ND	2.31	18.90	152.13	720-1110-2-ND	1,000	691.50	VJ1812A102KBEAT4X
	X7R	100V	0.10µF	±10%	720-1106-1-ND	1.72	14.12	113.69	720-1106-2-ND	1,000	516.75	VJ1812Y104KBBAT4X
	X7R	100V	0.47µF	±10%	720-1102-1-ND	2.05	17.00	150.00	720-1102-2-ND	1,000	700.00	VJ1812Y474KBBAT4X
	X7R	100V	1.00µF	±10%	720-1105-1-ND	4.87	39.92	321.32	720-1105-2-ND	1,000	1475.55	VJ1812Y105KBBAT4X
	X7R	500V	0.022µF	±10%	720-1104-1-ND	1.70	13.90	111.87	720-1104-2-ND	1,000	508.50	VJ1812Y223KBEAT4X
	X7R	500V	0.047µF	±10%	720-1103-1-ND	1.89	15.50	124.74	720-1103-2-ND	1,000	567.00	VJ1812Y473KBEAT4X
1825	C0G (NP0)	100V	0.01µF	±10%	720-1101-1-ND	3.66	30.39	268.11	720-1101-2-ND	1,000	1251.18	VJ1825A103KBBAT4X
	X7R	100V	0.10µF	±10%	720-1099-1-ND	2.51	20.79	183.42	720-1099-2-ND	1,000	855.96	VJ1825Y104KBBAT4X
	X7R	100V	1.00µF	±10%	720-1098-1-ND	3.83	31.73	279.96	720-1098-2-ND	1,000	1306.48	VJ1825Y105KBBAT4X
	X7R	500V	0.01µF	±10%	720-1100-1-ND	3.03	25.16	221.97	720-1100-2-ND	1,000	1035.86	VJ1825Y103KBEAT4X
	X7R	500V	0.22µF	±10%	720-1097-1-ND	2.32	19.28	170.10	720-1097-2-ND	1,000	793.80	VJ1825Y224KBEAT4X
2220	C0G (NP0)	500V	4,700pF	±10%	720-1096-1-ND	3.66	30.36	267.87	720-1096-2-ND	1,000	1250.06	VJ2220A472KBEAT4X
	X7R	100V	1.00µF	±10%	720-1094-1-ND	4.02	33.32	293.97	720-1094-2-ND	1,000	1371.86	VJ2220Y105KBBAT4X
	X7R	500V	0.01µF	±10%	720-1095-1-ND	3.01	24.94	220.02	720-1095-2-ND	1,000	1026.76	VJ2220Y103KBEAT4X
	X7R	500V	0.22µF	±10%	720-1093-1-ND	3.70	32.92	298.38	720-1093-2-ND	1,000	1368.44	VJ2220Y224KBEAT4X
2225	C0G (NP0)	50V	0.047µF	±10%	720-1091-1-ND	5.61	52.71	467.56	720-1091-2-ND	1,000	2210.26	VJ2225A473KBAAT4X
	X7R	100V	0.47µF	±10%	720-1088-1-ND	3.68	30.56	269.61	720-1088-2-ND	1,000	1258.18	VJ2225Y474KBBAT4X
	X7R	200V	1.00µF	±10%	720-1089-1-ND	4.98	46.80	415.17	720-1089-2-ND	1,000	1962.61	VJ2225Y105KBCAT4X
	X7R	500V	0.01µF	±10%	720-1090-1-ND	3.78	33.61	304.56	720-1090-2-ND	1,000	1396.77	VJ2225Y103KBEAT4X

VISHAY **Vitramon**

Robust Large Case High Voltage Multilayer Ceramic Chip Capacitors - VJ X7R and COG Series

Features:

X7R: • General purpose dielectric • Excellent aging characteristics • Ideal for decoupling and filtering • Surface mount, precious metal technology, wet build process

COG: • Ultra-stable dielectric • Low Dissipation Factor (DF) • Ideal for critical timing and tuning applications • Surface mount, precious metal technology, wet build process

Electrical Specifications:

X7R: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient of Capacitance (TCC): ±15% from -55°C ~ 125°C, with 0 Vdc applied • Dissipation Factor (DF): ≤25V ratings: 3.5% maximum at 1.0V_{rms} and 1kHz, >25V ratings: 2.5% maximum at 1.0V_{rms} and 1 kHz

COG: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient of Capacitance (TCC): 0 ±30 ppm/°C from -55°C ~ 125°C • Dissipation Factor (DF): 0.1% maximum at 1.0V_{rms} and 1kHz for values >1000 pF, 0.1% maximum at 1.0V_{rms} and 1MHz for values ≤1000 pF

Applications:

X7R and COG: • High voltage • Decoupling • Filtering • Surge Suppression

Size Code	Dimensions - mm			
	L	W	T	t
1808	4.50 ±0.25	2.03 ±0.25	1.70	0.25 ~ 0.76
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 ~ 0.76
1825	4.50 ±0.25	6.40 ±0.25	2.18	0.25 ~ 0.76
2220	5.59 ±0.20	5.08 ±0.25	2.18	0.25 ~ 0.76
2225	5.59 ±0.25	6.35 ±0.25	2.18	0.25 ~ 0.76

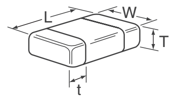

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
1808	X7R	200V	0.01µF	±10%	720-1122-1-ND	.60	5.05	31.63	720-1122-2-ND	2,000	120.48/M	VJ1808Y103KXCAT
	X7R	1,000V	0.01µF	±10%	720-1123-1-ND	1.05	8.87	60.23	720-1123-2-ND	2,500	250.96/M	VJ1808Y103KXGAT
	X7R	200V	0.1µF	±10%	720-1129-1-ND	.78	6.51	40.82	720-1129-2-ND	2,000	155.52/M	VJ1808Y104KXCAT
	X7R	500V	0.012µF	±10%	720-1137-1-ND	.84	7.13	48.42	720-1137-2-ND	3,000	201.75/M	VJ1808Y123KXEAT
	X7R	500V	0.027µF	±10%	720-1155-1-ND	.84	7.13	48.42	720-1155-2-ND	2,500	201.76/M	VJ1808Y273KXEAT
	X7R	200V	0.033µF	±10%	720-1158-1-ND	.64	5.34	33.47	720-1158-2-ND	3,000	127.52/M	VJ1808Y333KXCAT
	COG (NPO)	200V	680pF	±5%	720-1171-1-ND	.94	7.85	49.18	720-1171-2-ND	3,000	187.36/M	VJ1808A681JXCAT
	COG (NPO)	200V	1,000pF	±5%	720-1115-1-ND	.94	7.85	49.18	720-1115-2-ND	2,500	187.36/M	VJ1808A102JXCAT
	COG (NPO)	500V	1,800pF	±5%	720-1143-1-ND	1.28	10.53	84.74	720-1143-2-ND	3,000	359.52/M	VJ1808A182JXEAT
	COG (NPO)	1,000V	220pF	±5%	720-1146-1-ND	2.29	18.81	151.37	720-1146-2-ND	2,500	642.18/M	VJ1808A221JXGAT
	COG (NPO)	1,000V	1,000pF	±5%	720-1116-1-ND	2.10	17.43	153.81	720-1116-2-ND	2,000	692.15/M	VJ1808A102JXGAT
1812	X7R	500V	0.01µF	±10%	720-1124-1-ND	.78	6.51	40.82	720-1124-2-ND	1,000	165.24	VJ1812Y103KXEAT
	X7R	1,000V	0.01µF	±10%	720-1125-1-ND	.95	8.02	54.47	720-1125-2-ND	1,000	242.08	VJ1812Y103KXGAT
	X7R	500V	0.1µF	±10%	720-1130-1-ND	1.01	8.58	58.28	720-1130-2-ND	1,000	259.04	VJ1812Y104KXEAT
	X7R	200V	0.12µF	±10%	720-1140-1-ND	.73	6.08	38.14	720-1140-2-ND	1,000	154.36	VJ1812Y124KXCAT
	X7R	1,000V	0.022µF	±10%	720-1149-1-ND	1.13	9.47	69.52	720-1149-2-ND	1,000	312.33	VJ1812Y223KXGAT
	X7R	200V	0.22µF	±10%	720-1151-1-ND	1.12	9.32	68.45	720-1151-2-ND	1,000	307.52	VJ1812Y224KXCAT
	X7R	200V	0.39µF	±10%	720-1162-1-ND	1.07	8.95	65.72	720-1162-2-ND	1,000	295.28	VJ1812Y394KXCAT
	X7R	500V	0.068µF	±10%	720-1172-1-ND	1.01	8.58	58.28	720-1172-2-ND	1,000	259.04	VJ1812Y683KXEAT
	COG (NPO)	200V	39pF	±5%	720-1161-1-ND	.82	6.91	46.94	720-1161-2-ND	1,000	208.64	VJ1812A390JXCAT
	COG (NPO)	200V	1,000pF	±5%	720-1117-1-ND	.89	7.44	46.66	720-1117-2-ND	1,000	188.87	VJ1812A102JXCAT
	COG (NPO)	200V	0.12µF	±5%	720-1138-1-ND	1.39	11.59	85.08	720-1138-2-ND	1,000	382.23	VJ1812A123JXCAT
	COG (NPO)	500V	100pF	±5%	720-1111-1-ND	.93	7.89	53.60	720-1111-2-ND	1,000	238.24	VJ1812A101JXEAT
	COG (NPO)	500V	4,700pF	±5%	720-1163-1-ND	1.33	10.89	87.68	720-1163-2-ND	1,000	398.55	VJ1812A472JXEAT
	COG (NPO)	1,000V	100pF	±5%	720-1112-1-ND	1.06	8.85	65.00	720-1112-2-ND	1,000	292.02	VJ1812A101JXGAT
	COG (NPO)	1,000V	220pF	±5%	720-1147-1-ND	1.36	11.37	83.46	720-1147-2-ND	1,000	374.95	VJ1812A221JXGAT
	COG (NPO)	1,000V	1,000pF	±5%	720-1118-1-ND	1.36	11.37	83.46	720-1118-2-ND	1,000	374.95	VJ1812A102JXGAT
1825	X7R	200V	0.015µF	±10%	720-1141-1-ND	1.02	8.53	62.58	720-1141-2-ND	1,000	281.17	VJ1825Y153KXCAT
	X7R	200V	0.1µF	±10%	720-1131-1-ND	.99	8.42	57.17	720-1131-2-ND	1,000	254.08	VJ1825Y104KXCAT
	X7R	200V	0.22µF	±10%	720-1152-1-ND	1.06	9.02	61.24	720-1152-2-ND	1,000	272.16	VJ1825Y224KXCAT
	X7R	500V	0.047µF	±10%	720-1166-1-ND	1.30	10.63	85.54	720-1166-2-ND	1,000	388.80	VJ1825Y473KXEAT
	X7R	500V	0.1µF	±10%	720-1132-1-ND	1.28	10.65	78.21	720-1132-2-ND	1,000	351.39	VJ1825Y104KXEAT
	X7R	500V	0.18µF	±10%	720-1145-1-ND	1.50	12.28	98.84	720-1145-2-ND	1,000	449.25	VJ1825Y184KXEAT
	X7R	1,000V	0.022µF	±10%	720-1150-1-ND	2.02	16.53	133.02	720-1150-2-ND	1,000	604.65	VJ1825Y223KXGAT
	X7R	1,000V	0.033µF	±10%	720-1159-1-ND	2.02	16.53	133.02	720-1159-2-ND	1,000	604.65	VJ1825Y333KXGAT
	X7R	1,000V	0.056µF	±10%	720-1170-1-ND	2.07	17.13	151.11	720-1170-2-ND	1,000	705.18	VJ1825Y563KXGAT
	COG (NPO)	200V	1,000pF	±5%	720-1119-1-ND	1.29	10.76	78.97	720-1119-2-ND	1,000	354.80	VJ1825A102JXCAT
	COG (NPO)	200V	4,700pF	±5%	720-1164-1-ND	1.28	10.50	84.51	720-1164-2-ND	1,000	384.15	VJ1825A472JXCAT
	COG (NPO)	200V	0.18µF	±5%	720-1144-1-ND	1.91	15.69	126.26	720-1144-2-ND	1,000	573.90	VJ1825A183JXCAT
	COG (NPO)	500V	100pF	±5%	720-1113-1-ND	1.64	13.41	107.94	720-1113-2-ND	1,000	490.65	VJ1825A101JXEAT
	COG (NPO)	500V	1,000pF	±5%	720-1120-1-ND	1.64	13.41	107.94	720-1120-2-ND	1,000	490.65	VJ1825A102JXEAT
	COG (NPO)	500V	0.01µF	±5%	720-1126-1-ND	1.94	15.94	128.27	720-1126-2-ND	1,000	583.05	VJ1825A103JXEAT
2220	X7R	200V	0.22µF	±10%	720-1153-1-ND	1.35	11.04	88.84	720-1153-2-ND	1,000	403.80	VJ2220Y224KXCAT
	X7R	200V	0.47µF	±10%	720-1168-1-ND	1.42	11.62	93.52	720-1168-2-ND	1,000	425.10	VJ2220Y474KXCAT
	X7R	500V	0.1µF	±10%	720-1133-1-ND	1.43	11.69	94.08	720-1133-2-ND	1,000	427.65	VJ2220Y104KXEAT
	X7R	500V	0.15µF	±10%	720-1142-1-ND	1.49	12.22	98.34	720-1142-2-ND	1,000	447.00	VJ2220Y154KXEAT
	COG (NPO)	200V	0.01µF	±5%	720-1127-1-ND	1.50	12.30	99.00	720-1127-2-ND	1,000	450.00	VJ2220A103JXCAT
	COG (NPO)	500V	3,300pF	±5%	720-1156-1-ND	1.75	14.35	115.47	720-1156-2-ND	1,000	524.85	VJ2220A332JXEAT
	COG (NPO)	1,000V	3,300pF	±5%	720-1157-1-ND	2.23	18.50	163.20	720-1157-2-ND	1,000	761.60	VJ2220A332JXGAT
2225	X7R	200V	0.47µF	±10%	720-1169-1-ND	1.40	11.71	85.94	720-1169-2-ND	1,000	386.11	VJ2225Y474KXCAT
	X7R	200V	1.0µF	±10%	720-1136-1-ND	1.71	14.04	113.03	720-1136-2-ND	1,000	513.75	VJ2225Y105KXCAT
	X7R	500V	0.033µF	±10%	720-1160-1-ND	1.62	13.28	106.89	720-1160-2-ND	1,000	485.85	VJ2225Y333KXEAT
	X7R	500V	0.1µF	±10%	720-1134-1-ND	1.43	11.69	94.08	720-1134-2-ND	1,000	427.65	VJ2225Y104KXEAT
	X7R	500V	0.22µF	±10%	720-1154-1-ND	1.54	12.62	101.57	720-1154-2-ND	1,000	461.70	VJ2225Y224KXEAT
	X7R	1,000V	0.047µF	±10%	720-1167-1-ND	2.07	17.13	151.11	720-1167-2-ND	1,000	705.18	VJ2225Y473KXGAT
	X7R	1,000V	0.068µF	±10%	720-1173-1-ND	2.07	17.13	151.11	720-1173-2-ND	1,000	705.18	VJ2225Y683KXGAT
	X7R	1,000V	0.1µF	±10%	720-1135-1-ND	2.22	18.18	146.29	720-1135-2-ND	1,000	664.95	VJ2225Y104KXGAT
	COG (NPO)	200V	4,700pF	±5%	720-1165-1-ND	1.38	11.51	84.46	720-1165-2-ND	1,000	379.44	VJ2225A472JXCAT
	COG (NPO)	200V	0.01µF	±5%	720-1128-1-ND	2.08	17.08	137.51	720-1128-2-ND	1,000	625.05	VJ2225A103JXCAT
	COG (NPO)	500V	100pF	±5%	720-1114-1-ND	1.75	14.35	115.47	720-1114-2-ND	1,000	524.85	VJ2225A101JXEAT
	COG (NPO)	500V	1,000pF	±5%	720-1121-1-ND	1.75	14.35	115.47	720-1121-2-ND	1,000	524.85	VJ2225A102JXEAT
	COG (NPO)	500V	220pF	±5%	720-1148-1-ND	1.75	14.35	115.47	720-1148-2-ND	1,000	524.85	VJ2225A221JXEAT
	COG (NPO)	500V	0.012µF	±5%	720-1139-1-ND	2.19	17.93	144.28	720-1139-2-ND	1,000	655.80	VJ2225A123JXEAT

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Vitramon

NEW! Surface Mount Multilayer Ceramic Chip Capacitors for Non-Magnetic Applications

RoHS COMPLIANT

Digi-Reel®

Features: • Manufactured with non-magnetic materials • Safety screened for magnetic properties • Reliable Noble Metal Electrode (NME) system • Halogen-free according to IEC 61249-2-21 definition

Applications: • Magnetic Resonance Imaging (MRI) • Medical test and diagnostic equipment • Aviation systems • Laboratory analysis systems • Navigation and electronic test equipment • Audio amplifiers

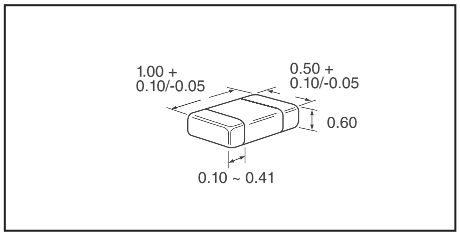

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Part No.
						1	10	100			
0402	C0G (NP0)	50V	1.0pF	±0.25pF	720-1174-1-ND†	.72	6.03	37.80	720-1174-2-ND	153.00	VJ0402A1R0CNAAJ
	C0G (NP0)	50V	1.2pF	±0.25pF	720-1175-1-ND†	.72	6.03	37.80	720-1175-2-ND	153.00	VJ0402A1R2CNAAJ
	C0G (NP0)	50V	1.5pF	±0.25pF	720-1176-1-ND†	.72	6.03	37.80	720-1176-2-ND	153.00	VJ0402A1R5CNAAJ
	C0G (NP0)	50V	1.8pF	±0.25pF	720-1177-1-ND†	.72	6.03	37.80	720-1177-2-ND	153.00	VJ0402A1R8CNAAJ
	C0G (NP0)	50V	2.2pF	±0.25pF	720-1178-1-ND†	.72	6.03	37.80	720-1178-2-ND	153.00	VJ0402A2R2CNAAJ
	C0G (NP0)	50V	2.7pF	±0.25pF	720-1179-1-ND†	.72	6.03	37.80	720-1179-2-ND	153.00	VJ0402A2R7CNAAJ
	C0G (NP0)	50V	3.3pF	±0.25pF	720-1180-1-ND†	.72	6.03	37.80	720-1180-2-ND	153.00	VJ0402A3R3CNAAJ
	C0G (NP0)	50V	3.9pF	±0.25pF	720-1181-1-ND†	.72	6.03	37.80	720-1181-2-ND	153.00	VJ0402A3R9CNAAJ
	C0G (NP0)	50V	4.7pF	±0.25pF	720-1182-1-ND†	.72	6.03	37.80	720-1182-2-ND	153.00	VJ0402A4R7CNAAJ
	C0G (NP0)	50V	5.6pF	±0.25pF	720-1183-1-ND†	.72	6.03	37.80	720-1183-2-ND	153.00	VJ0402A5R6CNAAJ
	C0G (NP0)	50V	6.8pF	±0.25pF	720-1184-1-ND†	.72	6.03	37.80	720-1184-2-ND	153.00	VJ0402A6R8CNAAJ
	C0G (NP0)	50V	8.2pF	±0.25pF	720-1185-1-ND†	.72	6.03	37.80	720-1185-2-ND	153.00	VJ0402A8R2CNAAJ
	C0G (NP0)	50V	10pF	±5%	720-1186-1-ND†	.64	5.36	33.60	720-1186-2-ND	136.00	VJ0402A100JNAAJ
	C0G (NP0)	50V	12pF	±5%	720-1187-1-ND†	.64	5.36	33.60	720-1187-2-ND	136.00	VJ0402A120JNAAJ
	C0G (NP0)	50V	15pF	±5%	720-1188-1-ND‡	.64	5.36	33.60	720-1188-2-ND	136.00	VJ0402A150JNAAJ
	C0G (NP0)	50V	18pF	±5%	720-1189-1-ND‡	.64	5.36	33.60	720-1189-2-ND	136.00	VJ0402A180JNAAJ
	C0G (NP0)	50V	22pF	±5%	720-1190-1-ND‡	.64	5.36	33.60	720-1190-2-ND	136.00	VJ0402A220JNAAJ
	C0G (NP0)	50V	27pF	±5%	720-1191-1-ND‡	.64	5.36	33.60	720-1191-2-ND	136.00	VJ0402A270JNAAJ
	C0G (NP0)	50V	33pF	±5%	720-1192-1-ND‡	.64	5.36	33.60	720-1192-2-ND	136.00	VJ0402A330JNAAJ
	C0G (NP0)	50V	39pF	±5%	720-1193-1-ND‡	.64	5.36	33.60	720-1193-2-ND	136.00	VJ0402A390JNAAJ
	C0G (NP0)	50V	47pF	±5%	720-1194-1-ND‡	.64	5.36	33.60	720-1194-2-ND	136.00	VJ0402A470JNAAJ
	C0G (NP0)	50V	56pF	±5%	720-1195-1-ND‡	.64	5.36	33.60	720-1195-2-ND	136.00	VJ0402A560JNAAJ
	C0G (NP0)	50V	68pF	±5%	720-1196-1-ND‡	.64	5.36	33.60	720-1196-2-ND	136.00	VJ0402A680JNAAJ
	C0G (NP0)	50V	82pF	±5%	720-1197-1-ND‡	.64	5.36	33.60	720-1197-2-ND	136.00	VJ0402A820JNAAJ
	C0G (NP0)	50V	100pF	±5%	720-1198-1-ND‡	.64	5.36	33.60	720-1198-2-ND	136.00	VJ0402A101JNAAJ
	C0G (NP0)	50V	120pF	±5%	720-1199-1-ND‡	.64	5.36	33.60	720-1199-2-ND	136.00	VJ0402A121JNAAJ
	C0G (NP0)	50V	150pF	±5%	720-1200-1-ND‡	.64	5.36	33.60	720-1200-2-ND	136.00	VJ0402A151JNAAJ
	C0G (NP0)	50V	180pF	±5%	720-1201-1-ND‡	.64	5.36	33.60	720-1201-2-ND	136.00	VJ0402A181JNAAJ
	X7R	50V	220pF	±10%	720-1202-1-ND‡	.58	4.57	27.50	720-1202-2-ND	105.00	VJ0402Y221KNAAJ
	X7R	50V	270pF	±10%	720-1203-1-ND‡	.58	4.57	27.50	720-1203-2-ND	105.00	VJ0402Y271KNAAJ
	X7R	50V	330pF	±10%	720-1204-1-ND‡	.58	4.57	27.50	720-1204-2-ND	105.00	VJ0402Y331KNAAJ
	X7R	50V	390pF	±10%	720-1205-1-ND§	.58	4.57	27.50	720-1205-2-ND	105.00	VJ0402Y391KNAAJ
	X7R	50V	470pF	±10%	720-1206-1-ND§	.58	4.57	27.50	720-1206-2-ND	105.00	VJ0402Y471KNAAJ
	X7R	50V	560pF	±10%	720-1207-1-ND§	.58	4.57	27.50	720-1207-2-ND	105.00	VJ0402Y561KNAAJ
	X7R	50V	680pF	±10%	720-1208-1-ND§	.58	4.57	27.50	720-1208-2-ND	105.00	VJ0402Y681KNAAJ
	X7R	50V	820pF	±10%	720-1209-1-ND§	.58	4.57	27.50	720-1209-2-ND	105.00	VJ0402Y821KNAAJ
	X7R	50V	1000pF	±10%	720-1210-1-ND§	.68	5.40	32.50	720-1210-2-ND	124.00	VJ0402Y102KNAAJ
	X7R	50V	1200pF	±10%	720-1211-1-ND§	.68	5.40	32.50	720-1211-2-ND	124.00	VJ0402Y122KNAAJ
	X7R	50V	1500pF	±10%	720-1212-1-ND§	.68	5.40	32.50	720-1212-2-ND	124.00	VJ0402Y152KNAAJ
	X7R	50V	1800pF	±10%	720-1213-1-ND§	.68	5.40	32.50	720-1213-2-ND	124.00	VJ0402Y182KNAAJ
	X7R	50V	2200pF	±10%	720-1214-1-ND§	.68	5.40	32.50	720-1214-2-ND	124.00	VJ0402Y222KNAAJ
	X7R	50V	2700pF	±10%	720-1215-1-ND§	.68	5.40	32.50	720-1215-2-ND	124.00	VJ0402Y272KNAAJ
	X7R	50V	3300pF	±10%	720-1216-1-ND§	.68	5.40	32.50	720-1216-2-ND	124.00	VJ0402Y332KNAAJ
	X7R	50V	3900pF	±10%	720-1217-1-ND§	.68	5.40	32.50	720-1217-2-ND	124.00	VJ0402Y392KNAAJ
	X7R	50V	4700pF	±10%	720-1218-1-ND§	.68	5.40	32.50	720-1218-2-ND	124.00	VJ0402Y472KNAAJ
	X7R	50V	5600pF	±10%	720-1219-1-ND§	.68	5.40	32.50	720-1219-2-ND	124.00	VJ0402Y562KNAAJ
	X7R	50V	6800pF	±10%	720-1220-1-ND§	.68	5.40	32.50	720-1220-2-ND	124.00	VJ0402Y682KNAAJ
	X7R	50V	8200pF	±10%	720-1221-1-ND§	.68	5.40	32.50	720-1221-2-ND	124.00	VJ0402Y822KNAAJ
	X7R	50V	10000pF	±10%	720-1222-1-ND§	.60	5.03	31.50	720-1222-2-ND	128.00	VJ0402Y103KNAAJ

Kits

† 720-1223-ND	(VJ0402NMAG1NKIT)	MLCC Kit 25 each of values denoted	**$68.78**
‡ 720-1224-ND	(VJ0402NMAG2NKIT)	MLCC Kit 25 each of values denoted	**$63.98**
§ 720-1225-ND	(VJ0402NMAG3NKIT)	MLCC Kit 25 each of values denoted	**$62.98**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812

Features: • High capacitance per unit volume • For high frequency applications • NiSn terminations **Applications:** • Consumer electronics • Telecommunications • Automotive • Data processing

Case Size	Dimensions — mm L1	W	L2 and L3 Min.	Max.	L4 Min.
0402	1.0	0.5	0.20	0.30	0.40
0603	1.6	0.8	0.20	0.60	0.40
0805	2.0	1.25	0.25	0.75	0.55
1206	3.2	1.6	0.25	0.75	1.40
1812	4.5	3.2	0.25	0.75	2.20

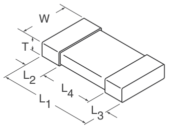

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T Nom. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Yageo Part No.
0402	NPO	50	.5pF	±0.25pF	0.5	311-1001-1-ND	.52	3.07	8.87	311-1001-2-ND	10,000	8.52/M	CC0402CRNPO9BNR50
	NPO	50	1.2pF	±0.25pF	0.5	311-1002-1-ND	.59	3.51	10.13	311-1002-2-ND	10,000	9.72/M	CC0402CRNPO9BN1R2
	NPO	50	1.5pF	±0.25pF	0.5	311-1003-1-ND	.59	3.51	10.13	311-1003-2-ND	10,000	9.72/M	CC0402CRNPO9BN1R5
	NPO	50	1.8pF	±0.25pF	0.5	311-1004-1-ND	.59	3.51	10.13	311-1004-2-ND	10,000	9.72/M	CC0402CRNPO9BN1R8
	NPO	50	2.0pF	±0.25pF	0.5	311-1006-1-ND	.52	3.07	8.87	311-1006-2-ND	10,000	8.52/M	CC0402CRNPO9BN2R0
	NPO	50	2.2pF	±0.25pF	0.5	311-1354-1-ND ***NEW!***	.13	.75	2.16	311-1354-2-ND ***NEW!***	10,000	2.07/M	CC0402CRNPO9BN2R2
	NPO	50	2.7pF	±0.25pF	0.5	311-1005-1-ND	.52	3.07	8.87	311-1005-2-ND	10,000	8.52/M	CC0402CRNPO9BN2R7
	NPO	50	3.0pF	±0.25pF	0.5	311-1007-1-ND	.62	3.69	10.63	311-1007-2-ND	10,000	10.21/M	CC0402CRNPO9BN3R0
	NPO	50	3.3pF	±0.25pF	0.5	311-1008-1-ND	.52	3.07	8.87	311-1008-2-ND	10,000	8.52/M	CC0402CRNPO9BN3R3
	NPO	50	4.7pF	±0.25pF	0.5	311-1367-1-ND ***NEW!***	.13	.75	2.16	311-1367-2-ND ***NEW!***	10,000	2.07/M	CC0402CRNPO9BN4R7
	NPO	50	5.0pF	±0.25pF	0.5	311-1010-1-ND	.52	3.07	8.87	311-1010-2-ND	10,000	8.52/M	CC0402CRNPO9BN5R0
	NPO	50	5.6pF	±0.5pF	0.5	311-1011-1-ND	.52	3.07	8.87	311-1011-2-ND	10,000	8.52/M	CC0402DRNPO9BN5R6
	NPO	50	8.2pF	±0.5pF	0.5	311-1012-1-ND	.52	3.07	8.87	311-1012-2-ND	10,000	8.52/M	CC0402DRNPO9BN8R2
	NPO	50	9.1pF	±0.5pF	0.5	311-1013-1-ND	.52	3.07	8.87	—	—	—	CC0402DRNPO9BN9R1
	NPO	50	10pF	±5%	0.5	311-1014-1-ND	.12	.70	2.03	311-1014-2-ND	10,000	1.95/M	CC0402JRNPO9BN100
	NPO	50	11pF	±5%	0.5	311-1015-1-ND	.39	2.28	6.56	311-1015-2-ND	10,000	6.30/M	CC0402JRNPO9BN110
	NPO	50	12pF	±5%	0.5	311-1016-1-ND	.12	.70	2.03	311-1016-2-ND	10,000	1.95/M	CC0402JRNPO9BN120
	NPO	50	15pF	±5%	0.5	311-1017-1-ND	.12	.70	2.03	311-1017-2-ND	10,000	1.95/M	CC0402JRNPO9BN150
	NPO	50	22pF	±5%	0.5	311-1018-1-ND	.12	.70	2.03	311-1018-2-ND	10,000	1.95/M	CC0402JRNPO9BN220
	NPO	50	24pF	±5%	0.5	311-1348-1-ND ***NEW!***	.12	.70	2.03	311-1348-2-ND ***NEW!***	10,000	1.95/M	CC0402JRNPO9BN240
	NPO	50	27pF	±5%	0.5	311-1019-1-ND	.12	.70	2.03	311-1019-2-ND	10,000	1.95/M	CC0402JRNPO9BN270
	NPO	50	33pF	±5%	0.5	311-1020-1-ND	.12	.70	2.03	311-1020-2-ND	10,000	1.95/M	CC0402JRNPO9BN330
	NPO	50	39pF	±5%	0.5	311-1009-1-ND	.13	.75	2.16	311-1009-2-ND	10,000	2.07/M	CC0402JRNPO9BN390
	NPO	50	47pF	±5%	0.5	311-1021-1-ND	.12	.70	2.03	311-1021-2-ND	10,000	1.95/M	CC0402JRNPO9BN470
	NPO	50	56pF	±5%	0.5	311-1022-1-ND	.12	.70	2.03	311-1022-2-ND	10,000	1.95/M	CC0402JRNPO9BN560
	NPO	50	68pF	±5%	0.5	311-1340-1-ND ***NEW!***	.12	.70	2.03	311-1340-2-ND ***NEW!***	10,000	1.95/M	CC0402JRNPO9BN680
	NPO	50	82pF	±5%	0.5	311-1023-1-ND	.12	.70	2.03	311-1023-2-ND	10,000	1.95/M	CC0402JRNPO9BN820
	NPO	50	100pF	±5%	0.5	311-1024-1-ND	.12	.70	2.03	311-1024-2-ND	10,000	1.95/M	CC0402JRNPO9BN101
	NPO	50	150pF	±5%	0.5	311-1025-1-ND	.18	1.05	3.04	311-1025-2-ND	10,000	2.92/M	CC0402JRNPO9BN151
	NPO	25	220pF	±5%	0.5	311-1026-1-ND	.99	5.85	16.88	311-1026-2-ND	10,000	16.20/M	CC0402JRNPO8BN221
	X5R	16	.10µF	±10%	0.5	311-1347-1-ND ***NEW!***	.18	1.09	3.13	311-1347-2-ND ***NEW!***	10,000	3.01/M	CC0402KRX5R7BB104
	X5R	10	.10µF	±10%	0.5	311-1336-1-ND ***NEW!***	.17	1.01	2.93	311-1336-2-ND ***NEW!***	10,000	2.81/M	CC0402KRX5R6BB104
	X7R	50	220pF	±10%	0.5	311-1035-1-ND	.11	.67	1.93	311-1035-2-ND	10,000	1.86/M	CC0402KRX7R9BB221
	X7R	50	330pF	±10%	0.5	311-1027-1-ND	.11	.67	1.93	311-1027-2-ND	10,000	1.86/M	CC0402KRX7R9BB331
	X7R	50	470pF	±10%	0.5	311-1028-1-ND	.11	.67	1.93	311-1028-2-ND	10,000	1.86/M	CC0402KRX7R9BB471
	X7R	50	560pF	±10%	0.5	311-1029-1-ND	.11	.67	1.93	311-1029-2-ND	10,000	1.86/M	CC0402KRX7R9BB561
	X7R	50	680pF	±10%	0.5	311-1030-1-ND	.11	.67	1.93	311-1030-2-ND	10,000	1.86/M	CC0402KRX7R9BB681
	X7R	50	1200pF	±10%	0.5	311-1031-1-ND	.11	.67	1.93	311-1031-2-ND	10,000	1.86/M	CC0402KRX7R9BB122
	X7R	50	1500pF	±10%	0.5	311-1032-1-ND	.11	.67	1.93	311-1032-2-ND	10,000	1.86/M	CC0402KRX7R9BB152
	X7R	50	2700pF	±10%	0.5	311-1033-1-ND	.11	.67	1.93	311-1033-2-ND	10,000	1.86/M	CC0402KRX7R9BB272
	X7R	50	3300pF	±10%	0.5	311-1034-1-ND	.11	.67	1.93	311-1034-2-ND	10,000	1.86/M	CC0402KRX7R9BB332
	X7R	50	1000pF	±5%	0.5	311-1351-1-ND ***NEW!***	.15	.90	2.61	311-1351-2-ND ***NEW!***	10,000	2.51/M	CC0402JRX7R9BB102
	X7R	50	1000pF	±10%	0.5	311-1036-1-ND	.11	.67	1.93	311-1036-2-ND	10,000	1.86/M	CC0402KRX7R9BB102
	X7R	50	2200pF	±10%	0.5	311-1037-1-ND	.11	.67	1.93	311-1037-2-ND	10,000	1.86/M	CC0402KRX7R9BB222
	X7R	50	10000pF	±10%	0.5	311-1349-1-ND ***NEW!***	.11	.67	1.93	311-1349-2-ND ***NEW!***	10,000	1.86/M	CC0402KRX7R9BB103
	X7R	25	3900pF	±10%	0.5	311-1038-1-ND	.11	.67	1.93	311-1038-2-ND	10,000	1.86/M	CC0402KRX7R8BB392
	X7R	25	4700pF	±10%	0.5	311-1039-1-ND	.42	2.51	7.24	311-1039-2-ND	10,000	1.86/M	CC0402KRX7R8BB472
	X7R	25	10000pF	±10%	0.5	311-1337-1-ND ***NEW!***	.11	.67	1.93	311-1337-2-ND ***NEW!***	10,000	1.86/M	CC0402KRX7R8BB103
	X7R	16	1000pF	±10%	0.5	311-1352-1-ND ***NEW!***	.11	.67	1.93	311-1352-2-ND ***NEW!***	10,000	1.86/M	CC0402KRX7R7BB102
	X7R	16	5600pF	±10%	0.5	311-1040-1-ND	.11	.67	1.93	311-1040-2-ND	10,000	1.86/M	CC0402KRX7R7BB562
	X7R	16	8200pF	±10%	0.5	311-1041-1-ND	.11	.67	1.93	311-1041-2-ND	10,000	1.86/M	CC0402KRX7R7BB822
	X7R	16	10000pF	±10%	0.5	311-1042-1-ND	.11	.67	1.93	311-1042-2-ND	10,000	1.86/M	CC0402KRX7R7BB103
	X7R	16	22000pF	±10%	0.5	311-1378-1-ND ***NEW!***	.13	.75	2.16	311-1378-2-ND ***NEW!***	10,000	2.07/M	CC0402KRX7R7BB223
	X7R	16	47000pF	±10%	0.5	311-1362-1-ND ***NEW!***	.19	1.14	3.30	311-1362-2-ND ***NEW!***	10,000	3.17/M	CC0402KRX7R7BB473
	X7R	16	.10µF	±10%	0.5	311-1338-1-ND ***NEW!***	.58	3.45	9.94	311-1338-2-ND ***NEW!***	10,000	9.54/M	CC0402KRX7R7BB104
	X7R	10	47000pF	±10%	0.5	311-1334-1-ND ***NEW!***	.15	.86	2.48	311-1334-2-ND ***NEW!***	10,000	2.38/M	CC0402KRX7R6BB473
	X7R	10	.10µF	±10%	0.5	311-1345-1-ND ***NEW!***	.40	2.37	6.84	311-1345-2-ND ***NEW!***	10,000	6.57/M	CC0402KRX7R6BB104
	Y5V	25	.10µF	-20%/+80%	0.5	311-1375-1-ND ***NEW!***	.17	.98	2.81	311-1375-2-ND ***NEW!***	10,000	2.70/M	CC0402ZRY5V8BB104
	Y5V	16	22000pF	-20%/+80%	0.5	311-1043-1-ND	.48	2.81	8.10	311-1043-2-ND	10,000	7.78/M	CC0402ZRY5V7BB223
	Y5V	16	33000pF	-20%/+80%	0.5	311-1044-1-ND	.48	2.81	8.10	311-1044-2-ND	10,000	7.78/M	CC0402ZRY5V7BB333
	Y5V	16	10000pF	-20%/+80%	0.5	311-1045-1-ND	.48	2.81	8.10	311-1045-2-ND	10,000	7.78/M	CC0402ZRY5V7BB103
	Y5V	16	47000pF	-20%/+80%	0.5	311-1046-1-ND	.48	2.81	8.10	311-1046-2-ND	10,000	7.78/M	CC0402ZRY5V7BB473
	Y5V	16	.10µF	-20%/+80%	0.5	311-1047-1-ND	.11	.65	1.88	311-1047-2-ND	10,000	1.80/M	CC0402ZRY5V7BB104
	Y5V	16	.22µF	-20%/+80%	0.5	311-1350-1-ND ***NEW!***	.30	1.80	5.19	311-1350-2-ND ***NEW!***	10,000	4.99/M	CC0402ZRY5V7BB224
	Y5V	10	.22µF	-20%/+80%	0.5	311-1353-1-ND ***NEW!***	.30	1.80	5.19	311-1353-2-ND ***NEW!***	10,000	4.99/M	CC0402ZRY5V6BB224
	Y5V	6.3	1.0µF	-20%/+80%	0.5	311-1377-1-ND ***NEW!***	.40	2.35	6.77	311-1377-2-ND ***NEW!***	10,000	6.50/M	CC0402ZRY5V5BB105

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T Nom. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
							10	100	500		Qty.	Pricing	
0603	NPO	50	.5pF	±0.25pF	0.8	311-1048-1-ND	.57	3.38	9.75	311-1048-2-ND	4,000	9.36/M	CC0603CRNPO9BNR50
	NPO	50	1.0pF	±0.25pF	0.8	311-1049-1-ND	.45	2.63	7.59	311-1049-2-ND	4,000	7.29/M	CC0603CRNPO9BN1R0
	NPO	50	1.5pF	±0.25pF	0.8	311-1050-1-ND	.45	2.63	7.59	311-1050-2-ND	4,000	7.29/M	CC0603CRNPO9BN1R5
	NPO	50	2.0pF	±0.25pF	0.8	311-1051-1-ND	.55	3.23	9.32	311-1051-2-ND	4,000	8.95/M	CC0603CRNPO9BN2R0
	NPO	50	3.0pF	±0.25pF	0.8	311-1052-1-ND	.55	3.23	9.32	311-1052-2-ND	4,000	8.95/M	CC0603CRNPO9BN3R0
	NPO	50	4.0pF	±0.25pF	0.8	311-1053-1-ND	.57	3.38	9.75	311-1053-2-ND	4,000	9.36/M	CC0603CRNPO9BN4R0
	NPO	50	5.0pF	±0.25pF	0.8	311-1054-1-ND	.55	3.23	9.32	311-1054-2-ND	4,000	8.95/M	CC0603CRNPO9BN5R0
	NPO	50	6.0pF	±0.5pF	0.8	311-1055-1-ND	.50	2.98	8.61	311-1055-2-ND	4,000	8.27/M	CC0603DRNPO9BN6R0
	NPO	50	7.0pF	±0.5pF	0.8	311-1056-1-ND	.57	3.38	9.75	311-1056-2-ND	4,000	9.36/M	CC0603DRNPO9BN7R0
	NPO	50	8.0pF	±0.5pF	0.8	311-1057-1-ND	.57	3.38	9.75	311-1057-2-ND	4,000	9.36/M	CC0603DRNPO9BN8R0
	NPO	50	10pF	±5%	0.8	311-1058-1-ND	.49	2.90	8.36	311-1058-2-ND	4,000	8.03/M	CC0603JRNPO9BN100
	NPO	50	12pF	±5%	0.8	311-1059-1-ND	.42	2.46	7.09	311-1059-2-ND	4,000	6.81/M	CC0603JRNPO9BN120
	NPO	50	15pF	±5%	0.8	311-1060-1-ND	.49	2.90	8.36	311-1060-2-ND	4,000	8.03/M	CC0603JRNPO9BN150
	NPO	50	18pF	±5%	0.8	311-1061-1-ND	.49	2.90	8.36	311-1061-2-ND	4,000	8.03/M	CC0603JRNPO9BN180
	NPO	50	22pF	±5%	0.8	311-1062-1-ND	.49	2.90	8.36	311-1062-2-ND	4,000	8.03/M	CC0603JRNPO9BN220
	NPO	50	27pF	±5%	0.8	311-1063-1-ND	.49	2.90	8.36	311-1063-2-ND	4,000	8.03/M	CC0603JRNPO9BN270
	NPO	50	33pF	±5%	0.8	311-1064-1-ND	.49	2.90	8.36	311-1064-2-ND	4,000	8.03/M	CC0603JRNPO9BN330
	NPO	50	47pF	±5%	0.8	311-1065-1-ND	.49	2.90	8.36	311-1065-2-ND	4,000	8.03/M	CC0603JRNPO9BN470
	NPO	50	56pF	±5%	0.8	311-1066-1-ND	.49	2.90	8.36	311-1066-2-ND	4,000	8.03/M	CC0603JRNPO9BN560
	NPO	50	68pF	±5%	0.8	311-1067-1-ND	.17	1.01	2.93	311-1067-2-ND	4,000	2.81/M	CC0603JRNPO9BN680
	NPO	50	82pF	±5%	0.8	311-1068-1-ND	.17	1.01	2.93	311-1068-2-ND	4,000	2.81/M	CC0603JRNPO9BN820
	NPO	50	100pF	±5%	0.8	311-1069-1-ND	.49	2.90	8.36	311-1069-2-ND	4,000	8.03/M	CC0603JRNPO9BN101
	NPO	50	120pF	±5%	0.8	311-1070-1-ND	.53	3.16	9.11	311-1070-2-ND	4,000	8.75/M	CC0603JRNPO9BN121
	NPO	50	150pF	±5%	0.8	311-1071-1-ND	.70	4.13	11.91	311-1071-2-ND	4,000	11.43/M	CC0603JRNPO9BN151
	NPO	50	180pF	±5%	0.8	311-1072-1-ND	.25	1.48	4.26	311-1072-2-ND	4,000	4.09/M	CC0603JRNPO9BN181
	NPO	50	220pF	±5%	0.8	311-1073-1-ND	.77	4.56	13.16	311-1073-2-ND	4,000	12.64/M	CC0603JRNPO9BN221
	NPO	50	270pF	±5%	0.8	311-1074-1-ND	.77	4.56	13.16	311-1074-2-ND	4,000	12.64/M	CC0603JRNPO9BN271
	NPO	50	330pF	±5%	0.8	311-1075-1-ND	.77	4.56	13.16	311-1075-2-ND	4,000	12.64/M	CC0603JRNPO9BN331
	NPO	50	390pF	±5%	0.8	311-1076-1-ND	.77	4.56	13.16	311-1076-2-ND	4,000	12.64/M	CC0603JRNPO9BN391
	NPO	25	1000pF	±5%	0.8	311-1342-1-ND ***NEW!***	.32	1.87	5.38	311-1342-2-ND ***NEW!***	4,000	5.17/M	CC0603JRNPO8BN102
	X7R	50	220pF	±10%	0.8	311-1077-1-ND	.42	2.46	7.09	311-1077-2-ND	4,000	6.81/M	CC0603KRX7R9BB221
	X7R	50	270pF	±10%	0.8	311-1185-1-ND	.42	2.46	7.09	311-1185-2-ND	4,000	6.81/M	CC0603KRX7R9BB271
	X7R	50	330pF	±10%	0.8	311-1186-1-ND	.42	2.46	7.09	311-1186-2-ND	4,000	6.81/M	CC0603KRX7R9BB331
	X7R	50	390pF	±10%	0.8	311-1187-1-ND	.42	2.46	7.09	311-1187-2-ND	4,000	6.81/M	CC0603KRX7R9BB391
	X7R	50	470pF	±10%	0.8	311-1078-1-ND	.42	2.46	7.09	311-1078-2-ND	4,000	6.81/M	CC0603KRX7R9BB471
	X7R	50	560pF	±10%	0.8	311-1079-1-ND	.42	2.49	7.18	311-1079-2-ND	4,000	6.90/M	CC0603KRX7R9BB561
	X7R	50	680pF	±10%	0.8	311-1188-1-ND	.42	2.49	7.18	311-1188-2-ND	4,000	6.90/M	CC0603KRX7R9BB681
	X7R	50	820pF	±10%	0.8	311-1189-1-ND	.42	2.49	7.18	311-1189-2-ND	4,000	6.90/M	CC0603KRX7R9BB821
	X7R	50	1000pF	±10%	0.8	311-1080-1-ND	.40	2.37	6.84	311-1080-2-ND	4,000	6.57/M	CC0603KRX7R9BB102
	X7R	50	1500pF	±10%	0.8	311-1184-1-ND	.42	2.46	7.09	311-1184-2-ND	4,000	6.81/M	CC0603KRX7R9BB152
	X7R	50	2200pF	±10%	0.8	311-1081-1-ND	.42	2.46	7.09	311-1081-2-ND	4,000	6.81/M	CC0603KRX7R9BB222
	X7R	50	3300pF	±10%	0.8	311-1082-1-ND	.42	2.46	7.09	311-1082-2-ND	4,000	6.81/M	CC0603KRX7R9BB332
	X7R	50	4700pF	±10%	0.8	311-1083-1-ND	.42	2.46	7.09	311-1083-2-ND	4,000	6.81/M	CC0603KRX7R9BB472
	X7R	50	6800pF	±10%	0.8	311-1084-1-ND	.45	2.63	7.59	311-1084-2-ND	4,000	7.29/M	CC0603KRX7R9BB682
	X7R	50	10000pF	±10%	0.8	311-1085-1-ND	.28	1.67	4.82	311-1085-2-ND	4,000	4.63/M	CC0603KRX7R9BB103
	X7R	50	22000pF	±10%	0.8	311-1370-1-ND ***NEW!***	.67	3.98	11.48	311-1370-2-ND ***NEW!***	4,000	11.02/M	CC0603KRX7R9BB223
	X7R	50	.10µF	±10%	0.8	311-1344-1-ND ***NEW!***	.26	1.51	4.35	311-1344-2-ND ***NEW!***	4,000	4.18/M	CC0603KRX7R9BB104
	X7R	25	10000pF	±10%	0.8	311-1360-1-ND ***NEW!***	.17	1.01	2.93	311-1360-2-ND ***NEW!***	4,000	2.81/M	CC0603KRX7R8BB103
	X7R	25	22000pF	±10%	0.8	311-1086-1-ND	.67	3.98	11.48	311-1086-2-ND	4,000	11.02/M	CC0603KRX7R8BB223
	X7R	25	47000pF	±10%	0.8	311-1373-1-ND ***NEW!***	.28	1.64	4.73	311-1373-2-ND ***NEW!***	4,000	4.54/M	CC0603KRX7R8BB473
	X7R	25	.10µF	±10%	0.8	311-1341-1-ND ***NEW!***	.20	1.18	3.39	311-1341-2-ND ***NEW!***	4,000	3.26/M	CC0603KRX7R8BB104
	X7R	16	68000pF	±10%	0.8	311-1379-1-ND ***NEW!***	.47	2.78	8.03	311-1379-2-ND ***NEW!***	4,000	7.71/M	CC0603KRX7R7BB683
	X7R	16	.10µF	±10%	0.8	311-1088-1-ND	.25	1.50	4.33	311-1088-2-ND	4,000	4.16/M	CC0603KRX7R7BB104
	X7R	10	.22µF	±10%	0.8	311-1346-1-ND ***NEW!***	.32	1.87	5.38	311-1346-2-ND ***NEW!***	4,000	5.17/M	CC0603KRX7R6BB224
	Y5V	50	.10µF	±20%	0.8	311-1366-1-ND ***NEW!***	.20	1.18	3.39	311-1366-2-ND ***NEW!***	4,000	3.26/M	CC0603MRY5V9BB104
	Y5V	50	.10µF	-20%/+80%	0.8	311-1343-1-ND ***NEW!***	.15	.90	2.61	311-1343-2-ND ***NEW!***	4,000	2.51/M	CC0603ZRY5V9BB104
	Y5V	25	.10µF	±20%	0.8	311-1363-1-ND ***NEW!***	.20	1.18	3.39	311-1363-2-ND ***NEW!***	4,000	3.26/M	CC0603MRY5V8BB104
	Y5V	25	.10µF	-20%/+80%	0.8	311-1087-1-ND	.48	2.81	8.10	311-1087-2-ND	4,000	7.78/M	CC0603ZRY5V8BB104
	Y5V	16	.10µF	-20%/+80%	0.8	311-1369-1-ND ***NEW!***	.15	.90	2.61	311-1369-2-ND ***NEW!***	4,000	2.51/M	CC0603ZRY5V7BB104
	Y5V	16	.22µF	-20%/+80%	0.8	311-1339-1-ND ***NEW!***	.60	3.52	10.14	311-1339-2-ND ***NEW!***	4,000	9.74/M	CC0603ZRY5V7BB224
	Y5V	16	1.0µF	-20%/+80%	0.8	311-1372-1-ND ***NEW!***	.28	1.68	4.86	311-1372-2-ND ***NEW!***	4,000	4.67/M	CC0603ZRY5V7BB105
	Y5V	10	1.0µF	-20%/+80%	0.8	311-1357-1-ND ***NEW!***	.46	2.71	7.82	311-1357-2-ND ***NEW!***	4,000	7.51/M	CC0603ZRY5V6BB105
0805	NPO	50	.5pF	±0.25pF	0.6	311-1094-1-ND	.66	3.88	11.19	311-1094-2-ND	4,000	10.75/M	CC0805CRNPO9BNR50
	NPO	50	1.0pF	±0.25pF	0.6	311-1089-1-ND	.57	3.38	9.75	311-1089-2-ND	4,000	9.36/M	CC0805CRNPO9BN1R0
	NPO	50	1.5pF	±0.25pF	0.6	311-1090-1-ND	.57	3.38	9.75	311-1090-2-ND	4,000	9.36/M	CC0805CRNPO9BN1R5
	NPO	50	2.0pF	±0.25pF	0.6	311-1091-1-ND	.62	3.68	10.61	311-1091-2-ND	4,000	10.19/M	CC0805CRNPO9BN2R0
	NPO	50	3.0pF	±0.25pF	0.6	311-1092-1-ND	.62	3.68	10.61	311-1092-2-ND	4,000	10.19/M	CC0805CRNPO9BN3R0
	NPO	50	4.0pF	±0.25pF	0.6	311-1093-1-ND	.62	3.68	10.61	311-1093-2-ND	4,000	10.19/M	CC0805CRNPO9BN4R0
	NPO	50	6.0pF	±0.5pF	0.6	311-1095-1-ND	.62	3.68	10.61	311-1095-2-ND	4,000	10.19/M	CC0805DRNPO9BN6R0
	NPO	50	7.0pF	±0.5pF	0.6	311-1096-1-ND	.62	3.68	10.61	311-1096-2-ND	4,000	10.19/M	CC0805DRNPO9BN7R0
	NPO	50	8.0pF	±0.5pF	0.6	311-1097-1-ND	.62	3.68	10.61	311-1097-2-ND	4,000	10.19/M	CC0805DRNPO9BN8R0
	NPO	50	9.0pF	±0.5pF	0.6	311-1098-1-ND	.62	3.68	10.61	311-1098-2-ND	4,000	10.19/M	CC0805DRNPO9BN9R0
	NPO	50	10pF	±5%	0.6	311-1099-1-ND	.50	2.98	8.61	311-1099-2-ND	4,000	8.27/M	CC0805JRNPO9BN100
	NPO	50	12pF	±5%	0.6	311-1100-1-ND	.57	3.38	9.75	311-1100-2-ND	4,000	9.36/M	CC0805JRNPO9BN120
	NPO	50	15pF	±5%	0.6	311-1101-1-ND	.57	3.38	9.75	311-1101-2-ND	4,000	9.36/M	CC0805JRNPO9BN150
	NPO	50	18pF	±5%	0.6	311-1102-1-ND	.57	3.38	9.75	311-1102-2-ND	4,000	9.36/M	CC0805JRNPO9BN180
	NPO	50	22pF	±5%	0.6	311-1103-1-ND	.57	3.37	9.73	311-1103-2-ND	4,000	9.35/M	CC0805JRNPO9BN220

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T Nom. (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
							10	100	500		Qty.	Pricing	
0805	NPO	50	27pF	±5%	0.6	311-1104-1-ND	.57	3.38	9.75	311-1104-2-ND	4,000	9.36/M	CC0805JRNPO9BN270
	NPO	50	33pF	±5%	0.6	311-1105-1-ND	.58	3.43	9.90	311-1105-2-ND	4,000	9.51/M	CC0805JRNPO9BN330
	NPO	50	39pF	±5%	0.6	311-1106-1-ND	.59	3.48	10.05	311-1106-2-ND	4,000	9.65/M	CC0805JRNPO9BN390
	NPO	50	47pF	±5%	0.6	311-1107-1-ND	.60	3.53	10.18	311-1107-2-ND	4,000	9.78/M	CC0805JRNPO9BN470
	NPO	50	56pF	±5%	0.6	311-1108-1-ND	.62	3.68	10.61	311-1108-2-ND	4,000	10.19/M	CC0805JRNPO9BN560
	NPO	50	68pF	±5%	0.6	311-1109-1-ND	.63	3.73	10.76	311-1109-2-ND	4,000	10.34/M	CC0805JRNPO9BN680
	NPO	50	82pF	±5%	0.6	311-1110-1-ND	.64	3.78	10.89	311-1110-2-ND	4,000	10.46/M	CC0805JRNPO9BN820
	NPO	50	100pF	±5%	0.6	311-1111-1-ND	.64	3.78	10.89	311-1111-2-ND	4,000	10.46/M	CC0805JRNPO9BN101
	NPO	50	120pF	±5%	0.6	311-1112-1-ND	.70	4.13	11.91	311-1112-2-ND	4,000	11.43/M	CC0805JRNPO9BN121
	NPO	50	150pF	±5%	0.6	311-1113-1-ND	.70	4.13	11.91	311-1113-2-ND	4,000	11.43/M	CC0805JRNPO9BN151
	NPO	50	180pF	±5%	0.6	311-1114-1-ND	.70	4.13	11.91	311-1114-2-ND	4,000	11.43/M	CC0805JRNPO9BN181
	NPO	50	220pF	±5%	0.6	311-1115-1-ND	.76	4.48	12.92	311-1115-2-ND	4,000	12.41/M	CC0805JRNPO9BN221
	NPO	50	270pF	±5%	0.6	311-1116-1-ND	.91	5.37	15.49	311-1116-2-ND	4,000	12.39/M	CC0805JRNPO9BN271
	NPO	50	330pF	±5%	0.6	311-1117-1-ND	.77	4.58	13.20	311-1117-2-ND	4,000	12.68/M	CC0805JRNPO9BN331
	NPO	50	390pF	±5%	0.6	311-1118-1-ND	.84	4.97	14.34	311-1118-2-ND	4,000	13.77/M	CC0805JRNPO9BN391
	NPO	50	470pF	±5%	0.6	311-1119-1-ND	.93	5.47	15.79	311-1119-2-ND	4,000	15.16/M	CC0805JRNPO9BN471
	NPO	50	560pF	±5%	0.6	311-1120-1-ND	1.01	5.97	17.21	311-1120-2-ND	4,000	16.53/M	CC0805JRNPO9BN561
	NPO	50	680pF	±5%	0.6	311-1121-1-ND	1.11	6.57	18.94	311-1121-2-ND	4,000	18.18/M	CC0805JRNPO9BN681
	NPO	50	1000pF	±5%	0.6	311-1122-1-ND	1.40	8.29	23.91	311-1122-2-ND	4,000	22.95/M	CC0805JRNPO9BN102
	X7R	50	220pF	±10%	0.6	311-1123-1-ND	.46	2.74	7.89	311-1123-2-ND	4,000	7.58/M	CC0805KRX7R9BB221
	X7R	50	270pF	±10%	0.6	311-1191-1-ND	.58	3.43	9.88	311-1191-2-ND	4,000	9.49/M	CC0805KRX7R9BB271
	X7R	50	330pF	±10%	0.6	311-1192-1-ND	.58	3.43	9.88	311-1192-2-ND	4,000	9.49/M	CC0805KRX7R9BB331
	X7R	50	390pF	±10%	0.6	311-1193-1-ND	.58	3.43	9.88	311-1193-2-ND	4,000	9.49/M	CC0805KRX7R9BB391
	X7R	50	470pF	±10%	0.6	311-1124-1-ND	.48	2.81	8.10	311-1124-2-ND	4,000	7.78/M	CC0805KRX7R9BB471
	X7R	50	560pF	±10%	0.6	311-1125-1-ND	.48	2.81	8.10	311-1125-2-ND	4,000	7.78/M	CC0805KRX7R9BB561
	X7R	50	680pF	±10%	0.6	311-1126-1-ND	.48	2.81	8.10	311-1126-2-ND	4,000	7.78/M	CC0805KRX7R9BB681
	X7R	50	820pF	±10%	0.6	311-1194-1-ND	.58	3.43	9.88	311-1194-2-ND	4,000	9.49/M	CC0805KRX7R9BB821
	X7R	50	1000pF	±10%	0.6	311-1127-1-ND	.49	2.89	8.33	311-1127-2-ND	4,000	8.00/M	CC0805KRX7R9BB102
	X7R	50	1500pF	±10%	0.6	311-1128-1-ND	.49	2.89	8.33	311-1128-2-ND	4,000	8.00/M	CC0805KRX7R9BB152
	X7R	50	2200pF	±10%	0.6	311-1129-1-ND	.46	2.74	7.89	311-1129-2-ND	4,000	7.58/M	CC0805KRX7R9BB222
	X7R	50	2700pF	±10%	0.6	311-1130-1-ND	.46	2.74	7.89	311-1130-2-ND	4,000	7.58/M	CC0805KRX7R9BB272
	X7R	50	3300pF	±10%	0.6	311-1131-1-ND	.49	2.89	8.33	311-1131-2-ND	4,000	8.00/M	CC0805KRX7R9BB332
	X7R	50	3900pF	±10%	0.6	311-1132-1-ND	.49	2.89	8.33	311-1132-2-ND	4,000	8.00/M	CC0805KRX7R9BB392
	X7R	50	4700pF	±10%	0.6	311-1133-1-ND	.48	2.81	8.10	311-1133-2-ND	4,000	7.78/M	CC0805KRX7R9BB472
	X7R	50	5600pF	±10%	0.6	311-1134-1-ND	.48	2.81	8.10	311-1134-2-ND	4,000	7.78/M	CC0805KRX7R9BB562
	X7R	50	6800pF	±10%	0.6	311-1135-1-ND	.48	2.81	8.10	311-1135-2-ND	4,000	7.78/M	CC0805KRX7R9BB682
	X7R	50	10000pF	±10%	0.6	311-1136-1-ND	.48	2.81	8.10	311-1136-2-ND	4,000	7.78/M	CC0805KRX7R9BB103
	X7R	50	15000pF	±10%	0.6	311-1143-1-ND	.50	2.98	8.61	311-1143-2-ND	4,000	8.27/M	CC0805KRX7R9BB153
	X7R	50	18000pF	±10%	0.6	311-1137-1-ND	.50	2.98	8.61	311-1137-2-ND	4,000	8.27/M	CC0805KRX7R9BB183
	X7R	50	22000pF	±10%	0.6	311-1138-1-ND	.59	3.48	10.05	311-1138-2-ND	4,000	9.65/M	CC0805KRX7R9BB223
	X7R	50	27000pF	±10%	0.85	311-1139-1-ND	.63	3.73	10.76	311-1139-2-ND	4,000	10.34/M	CC0805KRX7R9BB273
	X7R	50	33000pF	±10%	0.85	311-1374-1-ND ***NEW!***	.64	3.76	10.84	311-1374-2-ND ***NEW!***	4,000	10.41/M	CC0805KRX7R9BB333
	X7R	50	.10µF	±10%	0.85	311-1140-1-ND	.46	2.72	7.86	311-1140-2-ND	4,000	7.55/M	CC0805KRX7R9BB104
	X7R	25	.10µF	±10%	0.85	311-1141-1-ND	.92	5.44	15.69	311-1141-2-ND	4,000	15.07/M	CC0805KRX7R8BB104
	X7R	25	.47µF	±10%	1.25	311-1364-1-ND ***NEW!***	.91	5.40	15.56	311-1364-2-ND ***NEW!***	3,000	14.94/M	CC0805KKX7R8BB474
	X7R	16	.10µF	±10%	0.85	311-1142-1-ND	.92	5.44	15.69	311-1142-2-ND	4,000	15.07/M	CC0805KRX7R7BB104
	X7R	16	1.0µF	±10%	1.25	311-1365-1-ND ***NEW!***	.69	4.08	11.78	311-1365-2-ND ***NEW!***	3,000	11.31/M	CC0805KKX7R7BB105
	X7R	10	2.2µF	±10%	1.25	311-1368-1-ND ***NEW!***	1.87	11.02	31.80	311-1368-2-ND ***NEW!***	3,000	30.53/M	CC0805KKX7R6BB225
	Y5V	50	.10µF	-20%+80%	0.6	311-1361-1-ND ***NEW!***	.28	1.66	4.80	311-1361-2-ND ***NEW!***	4,000	4.61/M	CC0805ZRY5V9BB104
	Y5V	25	1.0µF	-20%+80%	0.85	311-1358-1-ND ***NEW!***	.39	2.29	6.62	311-1358-2-ND ***NEW!***	4,000	6.36/M	CC0805ZRY5V8BB105
	Y5V	10	3.3µF	-20%+80%	1.25	311-1190-1-ND	1.40	8.25	23.79	311-1190-2-ND	3,000	22.85/M	CC0805ZKY5V6BB335
	Y5V	10	4.7µF	-20%+80%	0.85	311-1371-1-ND ***NEW!***	.78	4.60	13.26	311-1371-2-ND ***NEW!***	4,000	12.73/M	CC0805ZRY5V6BB475
	Y5V	10	10µF	-20%+80%	1.25	311-1355-1-ND ***NEW!***	1.19	7.02	20.25	311-1355-2-ND ***NEW!***	3,000	19.44/M	CC0805ZKY5V6BB106
1206	NPO	50	.5pF	±0.25pF	0.6	311-1145-1-ND	1.18	6.96	20.08	311-1145-2-ND	4,000	19.28/M	CC1206CRNPO9BNR50
	NPO	50	1pF	±0.25pF	0.6	311-1212-1-ND	1.25	7.37	21.26	311-1212-2-ND	4,000	20.42/M	CC1206CRNPO9BN1R0
	NPO	50	1.5pF	±0.25pF	0.6	311-1214-1-ND	1.40	8.29	23.93	311-1214-2-ND	4,000	22.97/M	CC1206CRNPO9BN1R5
	NPO	50	1.8pF	±0.25pF	0.6	311-1215-1-ND	1.40	8.29	23.93	311-1215-2-ND	4,000	22.97/M	CC1206CRNPO9BN1R8
	NPO	50	2.2pF	±0.25pF	0.6	311-1146-1-ND	1.14	6.76	19.50	311-1146-2-ND	4,000	18.72/M	CC1206CRNPO9BN2R2
	NPO	50	2.7pF	±0.25pF	0.6	311-1216-1-ND	1.40	8.29	23.93	311-1216-2-ND	4,000	22.97/M	CC1206CRNPO9BN2R7
	NPO	50	3.3pF	±0.25pF	0.6	311-1147-1-ND	1.14	6.71	19.37	311-1147-2-ND	4,000	18.60/M	CC1206CRNPO9BN3R3
	NPO	50	3.9pF	±0.25pF	0.6	311-1217-1-ND	1.40	8.29	23.93	311-1217-2-ND	4,000	22.97/M	CC1206CRNPO9BN3R9
	NPO	50	4.7pF	±0.25pF	0.6	311-1218-1-ND	1.41	8.34	24.06	311-1218-2-ND	4,000	23.10/M	CC1206CRNPO9BN4R7
	NPO	50	5.6pF	±0.25pF	0.6	311-1149-1-ND	1.24	7.31	21.09	311-1149-2-ND	4,000	20.25/M	CC1206CRNPO9BN5R6
	NPO	50	6.8pF	±0.5pF	0.6	311-1220-1-ND	1.40	8.29	23.93	311-1220-2-ND	4,000	22.97/M	CC1206DRNPO9BN6R8
	NPO	50	7.5pF	±0.5pF	0.6	311-1221-1-ND	2.48	14.63	42.19	—	—	—	CC1206DRNPO9BN7R5
	NPO	50	8.2pF	±0.5pF	0.6	311-1222-1-ND	1.40	8.29	23.93	311-1222-2-ND	4,000	22.97/M	CC1206DRNPO9BN8R2
	NPO	50	10pF	±5%	0.6	311-1150-1-ND	1.09	6.42	18.51	311-1150-2-ND	4,000	17.77/M	CC1206JRNPO9BN100
	NPO	50	12pF	±5%	0.6	311-1213-1-ND	1.34	7.90	22.78	311-1213-2-ND	4,000	21.87/M	CC1206JRNPO9BN120
	NPO	50	15pF	±5%	0.6	311-1151-1-ND	1.20	7.11	20.51	311-1151-2-ND	4,000	19.70/M	CC1206JRNPO9BN150
	NPO	50	18pF	±5%	0.6	311-1152-1-ND	1.20	7.11	20.51	311-1152-2-ND	4,000	19.70/M	CC1206JRNPO9BN180
	NPO	50	20pF	±5%	0.6	311-1153-1-ND	1.14	6.71	19.37	311-1153-2-ND	4,000	18.60/M	CC1206JRNPO9BN200
	NPO	50	22pF	±5%	0.6	311-1154-1-ND	1.20	7.11	20.51	311-1154-2-ND	4,000	19.70/M	CC1206JRNPO9BN220
	NPO	50	27pF	±5%	0.6	311-1155-1-ND	1.20	7.11	20.51	311-1155-2-ND	4,000	19.70/M	CC1206JRNPO9BN270
	NPO	50	33pF	±5%	0.6	311-1156-1-ND	1.20	7.11	20.51	311-1156-2-ND	4,000	19.70/M	CC1206JRNPO9BN330
	NPO	50	39pF	±5%	0.6	311-1157-1-ND	1.34	7.90	22.78	311-1157-2-ND	4,000	21.87/M	CC1206JRNPO9BN390
	NPO	50	47pF	±5%	0.6	311-1158-1-ND	1.18	6.96	20.08	311-1158-2-ND	4,000	16.07/M	CC1206JRNPO9BN470
	NPO	50	51pF	±5%	0.6	311-1219-1-ND	1.90	11.23	32.40	311-1219-2-ND	4,000	31.11/M	CC1206JRNPO9BN510
	NPO	50	56pF	±5%	0.6	311-1159-1-ND	1.34	7.90	22.78	311-1159-2-ND	4,000	21.87/M	CC1206JRNPO9BN560
	NPO	50	68pF	±5%	0.6	311-1160-1-ND	1.34	7.90	22.78	311-1160-2-ND	4,000	21.87/M	CC1206JRNPO9BN680
	NPO	50	100pF	±5%	0.6	311-1161-1-ND	1.26	7.46	21.53	311-1161-2-ND	4,000	20.67/M	CC1206JRNPO9BN101
	NPO	50	120pF	±5%	0.6	311-1162-1-ND	1.40	8.29	23.93	311-1162-2-ND	4,000	22.97/M	CC1206JRNPO9BN121
	NPO	50	1000pF	±5%	0.6	311-1163-1-ND	1.63	9.65	27.84	311-1163-2-ND	4,000	26.73/M	CC1206JRNPO9BN102
	X7R	1KV	1000pF	±10%	1.25	311-1144-1-ND	5.05	29.84	86.06	311-1144-2-ND	3,000	82.62/M	CC1206KKX7RCBB102
	X7R	500	1000pF	±10%	1.25	311-1359-1-ND ***NEW!***	1.80	10.65	30.73	311-1359-2-ND ***NEW!***	3,000	29.51/M	CC1206KKX7RBBB102
	X7R	50	220pF	±10%	0.85	311-1164-1-ND	1.09	6.42	18.51	311-1164-2-ND	4,000	17.77/M	CC1206KRX7R9BB221

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Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T Nom. (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Yageo Part No.
1206	X7R	50	270pF	±10%	0.85	311-1165-1-ND	1.09	6.42	18.51	311-1165-2-ND	4,000	17.77/M	CC1206KRX7R9BB271
	X7R	50	330pF	±10%	0.85	311-1166-1-ND	1.09	6.42	18.51	311-1166-2-ND	4,000	17.77/M	CC1206KRX7R9BB331
	X7R	50	390pF	±10%	0.85	311-1205-1-ND	3.06	18.07	52.13	311-1205-2-ND	4,000	158.04/M	CC1206KRX7R9BB391
	X7R	50	470pF	±10%	0.85	311-1167-1-ND	1.01	5.97	17.21	311-1167-2-ND	4,000	16.53/M	CC1206KRX7R9BB471
	X7R	50	560pF	±10%	0.85	311-1168-1-ND	1.01	5.97	17.21	311-1168-2-ND	4,000	16.53/M	CC1206KRX7R9BB561
	X7R	50	680pF	±10%	0.85	311-1169-1-ND	1.01	5.97	17.21	311-1169-2-ND	4,000	16.53/M	CC1206KRX7R9BB681
	X7R	50	820pF	±10%	0.85	311-1210-1-ND	1.26	7.46	21.53	311-1210-2-ND	4,000	20.67/M	CC1206KRX7R9BB821
	X7R	50	1000pF	±10%	0.85	311-1170-1-ND	1.01	5.97	17.21	311-1170-2-ND	4,000	16.53/M	CC1206KRX7R9BB102
	X7R	50	1200pF	±10%	0.85	311-1197-1-ND	1.18	6.96	20.08	311-1197-2-ND	4,000	19.28/M	CC1206KRX7R9BB122
	X7R	50	1500pF	±10%	0.85	311-1200-1-ND	1.18	6.96	20.08	311-1200-2-ND	4,000	19.28/M	CC1206KRX7R9BB152
	X7R	50	1800pF	±10%	0.85	311-1201-1-ND	1.18	6.96	20.08	311-1201-2-ND	4,000	19.28/M	CC1206KRX7R9BB182
	X7R	50	2200pF	±10%	0.85	311-1171-1-ND	1.09	6.42	18.51	311-1171-2-ND	4,000	17.77/M	CC1206KRX7R9BB222
	X7R	50	2700pF	±10%	0.85	311-1203-1-ND	1.18	6.96	20.08	311-1203-2-ND	4,000	19.28/M	CC1206KRX7R9BB272
	X7R	50	3300pF	±10%	0.85	311-1172-1-ND	1.09	6.42	18.51	311-1172-2-ND	4,000	17.77/M	CC1206KRX7R9BB332
	X7R	50	3900pF	±10%	0.85	311-1206-1-ND	1.18	6.96	20.08	311-1206-2-ND	4,000	19.28/M	CC1206KRX7R9BB392
	X7R	50	4700pF	±10%	0.85	311-1173-1-ND	1.01	5.97	17.21	311-1173-2-ND	4,000	16.53/M	CC1206KRX7R9BB472
	X7R	50	5600pF	±10%	0.85	311-1208-1-ND	1.26	7.46	21.53	311-1208-2-ND	4,000	20.67/M	CC1206KRX7R9BB562
	X7R	50	6800pF	±10%	0.85	311-1209-1-ND	1.26	7.46	21.53	311-1209-2-ND	4,000	20.67/M	CC1206KRX7R9BB682
	X7R	50	8200pF	±10%	0.85	311-1211-1-ND	1.35	7.96	22.95	311-1211-2-ND	4,000	22.04/M	CC1206KRX7R9BB822
	X7R	50	10000pF	±10%	0.85	311-1174-1-ND	1.01	5.97	17.21	311-1174-2-ND	4,000	16.53/M	CC1206KRX7R9BB103
	X7R	50	12000pF	±10%	0.85	311-1198-1-ND	1.43	8.42	24.30	311-1198-2-ND	4,000	23.33/M	CC1206KRX7R9BB123
	X7R	50	15000pF	±10%	0.85	311-1175-1-ND	1.09	6.42	18.51	311-1175-2-ND	4,000	17.77/M	CC1206KRX7R9BB153
	X7R	50	18000pF	±10%	0.85	311-1202-1-ND	1.43	8.42	24.30	311-1202-2-ND	4,000	23.33/M	CC1206KRX7R9BB183
	X7R	50	22000pF	±10%	0.85	311-1176-1-ND	1.17	6.91	19.93	311-1176-2-ND	4,000	19.14/M	CC1206KRX7R9BB223
	X7R	50	27000pF	±10%	0.85	311-1204-1-ND	1.43	8.42	24.30	311-1204-2-ND	4,000	23.33/M	CC1206KRX7R9BB273
	X7R	50	33000pF	±10%	0.85	311-1177-1-ND	1.09	6.42	18.51	311-1177-2-ND	4,000	17.77/M	CC1206KRX7R9BB333
	X7R	50	39000pF	±10%	0.85	311-1207-1-ND	1.68	9.95	28.69	311-1207-2-ND	4,000	27.54/M	CC1206KRX7R9BB393
	X7R	50	47000pF	±10%	0.85	311-1178-1-ND	1.25	7.41	21.38	311-1178-2-ND	4,000	20.52/M	CC1206KRX7R9BB473
	X7R	50	.10µF	±10%	0.85	311-1179-1-ND	.77	4.55	13.13	311-1179-2-ND	4,000	12.60/M	CC1206KRX7R9BB104
	X7R	25	.33µF	±10%	1.15	311-1180-1-ND	3.27	19.35	55.82	311-1180-2-ND	3,000	53.59/M	CC1206KKX7R8BB334
	X7R	25	1.0µF	±10%	1.15	311-1356-1-ND ***NEW!***	1.44	8.50	24.51	311-1356-2-ND ***NEW!***	3,000	23.53/M	CC1206KKX7R8BB105
	X7R	16	1.0µF	±10%	1.15	311-1181-1-ND	3.27	19.31	55.69	311-1181-2-ND	3,000	53.46/M	CC1206KKX7R7BB105
	Y5V	16	3.3µF	-20%+80%	1.15	311-1196-1-ND	2.50	14.77	42.62	311-1196-2-ND	3,000	40.92/M	CC1206ZKY5V7BB335
	Y5V	16	10µF	-20%+80%	1.15	311-1376-1-ND ***NEW!***	1.66	9.80	28.26	311-1376-2-ND ***NEW!***	3,000	27.13/M	CC1206ZKY5V7BB106
1812	NPO	3KV	220pF	±5%	1.25	311-1182-1-ND	15.62	92.30	266.25	311-1182-2-ND	1,500	255.60/M	CC1812JKNPOEBN221
	X7R	1KV	1000pF	±10%	1.25	311-1183-1-ND	11.61	68.62	197.94	311-1183-2-ND	1,000	190.03	CC1812KKX7RCBB102

X2Y® Series Surface Mount Ceramic EMI Filter Capacitors

Features: • Broadband Filtering and Decoupling: Effective up to 10 GHz and frequencies beyond • Ultra Low ESL: Noise cancellation makes ESL reduce from nanohenry to picohenry levels • Bypass: Unlike feedthrough capacitors, X2Y is in bypass, so no DC current limitations • Matched Y-caps: Two tightly matched line to ground capacitors in one device • Superior Balance: Temperature and voltage variations balanced of two Y-caps • Aging Reliability: Aging effects are equal on two Y-caps **Benefits:** • Fewer Component in Filtering: Can replace multiple inductors and/or capacitors • Superior Performance in Filtering: Can eliminate both differential and common mode noises • Fewer Component in Decoupling: Up to 1:7 replacement of MLCC in power delivering system bypass networks • Superior Performance in Decoupling: Large or small, X2Y components exhibit ultra low ESL • Total Cost Savings: Assembly cost savings through reduced component count and placement costs • Board Level Design Advantages: Dramatically reduces via drills, which blocks routing **Applications:** • EMI filtering on DC motors • Filtered connectors (airbag connectors, RJ-45 connectors) • High speed data-line filtering • Decoupling of supply-lines in high speed digital circuits • Broadband filtering • Amplifier decoupling and EMI suppression • IC Decoupling, on-package, on PCB • DC power line filtering • Data line filtering • EMI suppression for DC motors • Sensors • Audio

Fig. 1

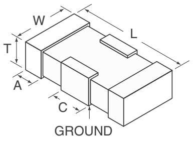

Fig. 2

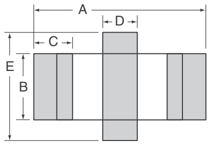

Fig. 1 — Dimensions in Inch (mm)

Case Size	L	W	T Min.	T Max.	A Min.	A Max.	C Min.
0603	0.063 (1.6)	0.033 (0.85)	0.022 (0.55)	0.030 (0.75)	0.010 (0.25)	0.022 (0.55)	0.016 (0.40)
0805	0.079 (2.0)	0.049 (1.25)	0.030 (0.75)	0.037 (0.95)	0.010 (0.25)	0.022 (0.55)	0.028 (0.70)
1206	0.126 (3.2)	0.065 (1.65)	0.043 (1.10)	0.055 (1.40)	0.010 (0.25)	0.026 (0.65)	0.047 (1.20)
1210	0.126 (3.2)	0.098 (2.5)	0.043 (1.10)	0.067 (1.70)	0.010 (0.25)	0.026 (0.65)	0.047 (1.20)

Fig. 2 — Reflow Soldering

Case Size	Footprint Dimensions - mm A	B	C	D	E	Placement Accuracy (mm)
0603	2.30	0.75	0.64	0.51	1.52	±0.20
0805	3.05	1.27	0.89	0.56	2.03	±0.20
1206	4.06	1.65	1.00	1.02	3.05	±0.25
1210	4.57	2.55	1.00	1.14	4.06	±0.25

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Yageo Part No.
0603	X5R	10	.22µF	±20%	311-1248-1-ND	14.55	86.00	248.06	311-1248-2-ND	4,000	238.00/M	CX0603MRX5R6BB224
	X5R	10	.33µF	±20%	311-1255-1-ND	14.55	86.00	248.06	311-1255-2-ND	4,000	238.00/M	CX0603MRX5R6BB334
	X7R	100	1000pF	±20%	311-1259-1-ND	6.47	38.22	110.25	311-1259-2-ND	4,000	106.00/M	CX0603MRX7R0BB102
	X7R	100	1500pF	±20%	311-1260-1-ND	6.47	38.22	110.25	311-1260-2-ND	4,000	106.00/M	CX0603MRX7R0BB152
	X7R	100	2200pF	±20%	311-1249-1-ND	6.47	38.22	110.25	311-1249-2-ND	4,000	106.00/M	CX0603MRX7R0BB222
	X7R	100	4700pF	±20%	311-1250-1-ND	6.47	38.22	110.25	311-1250-2-ND	4,000	106.00/M	CX0603MRX7R0BB472
	X7R	50/63	10000pF	±20%	311-1233-1-ND	8.09	47.78	137.81	311-1233-2-ND	4,000	132.00/M	CX0603MRX7R9BB103
	X7R	25	22000pF	±20%	311-1234-1-ND	8.09	47.78	137.81	311-1234-2-ND	4,000	132.00/M	CX0603MRX7R8BB223
	X7R	16	47000pF	±20%	311-1235-1-ND	9.70	57.33	165.38	311-1235-2-ND	4,000	159.00/M	CX0603MRX7R7BB473
	X7R	16	56000pF	±20%	311-1236-1-ND	9.70	57.33	165.38	311-1236-2-ND	4,000	159.00/M	CX0603MRX7R7BB563
	X7R	10	.1µF	±20%	311-1237-1-ND	11.32	66.89	192.94	311-1237-2-ND	4,000	185.00/M	CX0603MRX7R6BB104
0805	X7R	100	4700pF	±20%	311-1238-1-ND	8.09	47.78	137.81	311-1238-2-ND	4,000	132.00/M	CX0805MRX7R0BB472
	X7R	100	10000pF	±20%	311-1239-1-ND	8.09	47.78	137.81	311-1239-2-ND	4,000	132.00/M	CX0805MRX7R0BB103
	X7R	50/63	15000pF	±20%	311-1240-1-ND	12.13	71.66	206.72	311-1240-2-ND	4,000	198.00/M	CX0805MRX7R9BB153
	X7R	50/63	18000pF	±20%	311-1241-1-ND	12.94	76.44	220.50	311-1241-2-ND	4,000	212.00/M	CX0805MRX7R9BB183
	X7R	25	22000pF	±20%	311-1242-1-ND	12.94	76.44	220.50	311-1242-2-ND	4,000	212.00/M	CX0805MRX7R8BB223
	X7R	25	39000pF	±20%	311-1243-1-ND	12.94	76.44	220.50	311-1243-2-ND	4,000	212.00/M	CX0805MRX7R8BB393
	X7R	16	47000pF	±20%	311-1244-1-ND	12.94	76.44	220.50	311-1244-2-ND	4,000	212.00/M	CX0805MRX7R7BB473
	X7R	16	.1µF	±20%	311-1245-1-ND	12.94	76.44	220.50	311-1245-2-ND	4,000	212.00/M	CX0805MRX7R7BB104
	X7R	10	.18µF	±20%	311-1246-1-ND	14.55	86.00	248.06	311-1246-2-ND	4,000	238.00/M	CX0805MRX7R6BB184
1206	X7R	50/63	.1µF	±20%	311-1261-1-ND	12.13	71.66	206.72	311-1261-2-ND	2,500	198.00/M	CX1206MKX7R9BB104
	X7R	16	.22µF	±20%	311-1252-1-ND	12.94	76.44	220.50	311-1252-2-ND	2,500	212.00/M	CX1206MKX7R7BB224
	X7R	10	.47µF	±20%	311-1251-1-ND	12.94	76.44	220.50	311-1251-2-ND	2,500	212.00/M	CX1206MKX7R6BB474
1210	X7R	50/63	.1µF	±20%	311-1262-1-ND	9.26	56.23	185.22	311-1262-2-ND	2,500	198.00/M	CX1210MKX7R9BB104
	X7R	16	1µF	±20%	311-1253-1-ND	27.49	162.44	468.56	311-1253-2-ND	2,500	450.00/M	CX1210MKX7R7BB105

CDE CORNELL DUBILIER

MC Series Multilayer SMT Mica RF Capacitors

Type MC capacitors are the answer for high frequency public-service and military radio communication, flight radio and cable television. The natural mica dielectric retains its high-Q to many megahertz, so higher frequency applications are limited by the circuit inductance-not the type MC capacitor. FR4 compatibility and natural robustness offer freedom from the thermal cracking found with other RF capacitors.

Features: • Ultra stable-no change in capacitance with frequency, voltage or temperature • Free from thermal cracking • High RF Current dV/dt 20,000 V/us • Very high Q • Very low ESL and ESR • Wave Solderable

Specifications: Temperature Range: -55°C ~ 125°C with no voltage derating

Applications: • MRI RF coils • RF Instruments and Communications • 2-way mobile radio • Tuned circuits • CATV • Plasma generators for medical and IC manufacturing

Case Type	Dimensions — Inch (mm) L	W	H	l (Max.)
0805	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)
1210	.126 (3.2)	.098 (2.5)	.079 (2.0)	.043 (1.1)
1812	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)
2220	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)

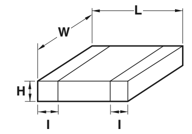

Tape and Reel packaging available with lead time.

Size Code	VDC	Capacitance (pF)	Tolerance (%)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
0805	100	1.0	±0.5	338-1339-NDΔ	1.37	1.17	.98	MC08CA010D-F
	100	2.0	±0.5	338-1096-ND	1.37	1.17	.98	MC08CA020D-F
	100	3.0	±0.5	338-1097-ND	1.37	1.17	.98	MC08CA030D-F
	100	5.0	±0.5	338-1098-NDΔ	1.37	1.17	.98	MC08CA050D-F
	100	10	±0.5	338-1099-NDΔ	1.37	1.17	.98	MC08CA100D-F
	100	15	±5	338-1100-ND	1.37	1.17	.98	MC08EA150J-F
	100	20	±5	338-1101-ND	1.37	1.17	.98	MC08EA200J-F
	100	22	±5	338-1102-NDΔ	1.37	1.17	.98	MC08EA220J-F
	100	27	±5	338-1103-ND	1.37	1.17	.98	MC08EA270J-F
	100	30	±5	338-1340-NDΔ	1.37	1.17	.98	MC08EA300J-F
1210	500	5.0	±0.5	338-1104-ND•	1.65	1.41	1.18	MC12CD050D-F
	500	10	±0.5	338-1105-ND•	1.65	1.41	1.18	MC12CD100D-F
	500	15	±5	338-1106-ND•	1.68	1.44	1.20	MC12ED150J-F
	500	18	±5	338-1107-ND	1.68	1.44	1.20	MC12ED180J-F
	500	30	±5	338-1344-ND	1.68	1.44	1.20	MC12ED300J-F
	500	33	±5	338-1117-ND•	1.68	1.44	1.20	MC12FD330J-F
	500	47	±5	338-1118-ND•	1.68	1.44	1.20	MC12FD470J-F
	500	62	±5	338-1119-ND	1.68	1.44	1.20	MC12FD620J-F
	500	68	±5	338-1120-ND•	1.68	1.44	1.20	MC12FD680J-F
	500	100	±5	338-1116-ND•	2.07	1.77	1.48	MC12FD101J-F
	100	47	±5	338-1114-NDΔ	1.58	1.35	1.13	MC12FA470J-F
	100	82	±5	338-1341-NDΔ	1.58	1.35	1.13	MC12FA820J-F
	100	100	±5	338-1108-NDΔ	1.65	1.41	1.18	MC12FA101J-F
	100	150	±1	338-1109-ND	4.06	3.48	2.90	MC12FA151F-F
	100	150	±5	338-1110-ND	1.68	1.44	1.20	MC12FA151J-F
	100	200	±5	338-1111-ND	1.79	1.53	1.28	MC12FA201J-F
	100	220	±5	338-1112-ND	1.79	1.53	1.28	MC12FA221J-F
	100	240	±5	338-1113-ND	1.79	1.53	1.28	MC12FA241J-F

Size Code	VDC	Capacitance (pF)	Tolerance (%)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1812	500	100	±5	338-1122-ND	2.07	1.77	1.48	MC18FD101J-F
	500	120	±5	338-1123-ND	2.07	1.77	1.48	MC18FD121J-F
	500	180	±5	338-1345-ND	2.21	1.89	1.58	MC18FD181J-F
	500	220	±5	338-1124-ND•	2.28	1.95	1.63	MC18FD221J-F
	500	300	±5	338-1125-ND	2.59	2.22	1.85	MC18FD301J-F
	500	330	±5	338-1126-ND•	2.59	2.22	1.85	MC18FD331J-F
	500	390	±5	338-1127-ND	2.80	2.40	2.00	MC18FD391J-F
	500	470	±5	338-1128-ND•	2.80	2.40	2.00	MC18FD471J-F
	100	470	±5	338-1121-NDΔ	2.49	2.13	1.78	MC18FA471J-F
	100	750	±5	338-1342-ND	2.70	2.31	1.93	MC18FA751J-F
2220	1000	100	±5	338-1348-ND§	3.01	2.58	2.15	MC22FF101J-F
	1000	220	±5	338-1349-ND§	3.50	3.00	2.50	MC22FF221J-F
	1000	330	±5	338-1350-ND§	3.82	3.27	2.73	MC22FF331J-F
	1000	390	±5	338-1351-ND	3.92	3.36	2.80	MC22FF391J-F
	1000	430	±5	338-1135-ND	3.92	3.36	2.80	MC22FF431J-F
	1000	470	±5	338-1136-ND§	3.92	3.36	2.80	MC22FF471J-F
	1000	560	±5	338-1352-ND§	4.31	3.69	3.08	MC22FF561J-F
	1000	1000	±5	338-1134-ND§	5.25	4.50	3.75	MC22FF102J-F
	1000	1500	±5	338-1353-ND§	6.34	5.43	4.53	MC22FF152J-F
	500	500	±5	338-1132-ND	3.54	3.03	2.53	MC22FD501J-F
	500	680	±5	338-1346-ND	3.89	3.33	2.78	MC22FD681J-F
	500	750	±5	338-1133-ND	3.89	3.33	2.78	MC22FD751J-F
	500	1000	±5	338-1131-ND•	4.38	3.75	3.13	MC22FD102J-F
	100	1000	±5	338-1129-NDΔ	3.78	3.24	2.70	MC22FA102J-F
	100	2000	±5	338-1130-ND	5.11	4.38	3.65	MC22FA202J-F

Δ	**338-1354-ND** (MCF100VKIT4)	Mica Cap Kit 5 each of marked values.	**$45.34**
•	**338-1355-ND** (MCF500VKIT5)	Mica Cap Kit 5 each of marked values.	**$60.46**
§	**338-1356-ND** (MCF1000VKIT6)	Mica Cap Kit 5 each of marked values.	**$75.80**

MIN and MCM Series Multilayer RF Clad Capacitors

Types MCM and MIN metal clad PTFE and mica capacitors are top performers for high power applications requiring low inductance at high frequencies.

Features: • 200°C rated with no voltage derating • Low ESR for RF power applications • Nonmagnetic for minimal RF loss • High frequency operation into the GHz range • Very low ESL for excellent bypass action • Ultra-low dielectric absorption for ≤32pF • Ultra stable: no change with temperature, voltage and frequency

Specifications: • Temperature Range: -55°C ~ 200°C with no voltage derating • Dielectric Strength: 200% of rated voltage for 5 seconds • Insulation Resistance: 1,000MΩ/µF Need not exceed 100,000MΩ at 25°C • Typical Q's: >2,000

Fig. 1

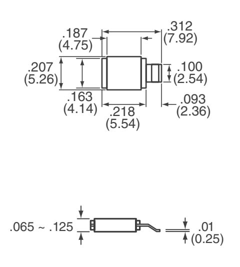

Fig. 2

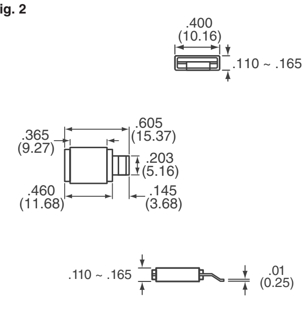

Fig.	VDC	Capacitance (pF)	Tolerance	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1	300	20	5%	338-1289-ND	1.89	1.62	1.35	MIN02-002CC200J-F
	300	22	5%	338-1290-ND†	1.89	1.62	1.35	MIN02-002DC220J-F
	300	25	5%	338-1292-ND	1.89	1.62	1.35	MIN02-002DC250J-F
	300	35	5%	338-1297-ND	1.89	1.62	1.35	MIN02-002DC350J-F
	300	50	5%	338-1302-ND	1.89	1.62	1.35	MIN02-002DC500J-F
2	500	4.7	±.5pF	338-1312-ND	3.82	3.27	2.73	MCM01-009D4R7D-F
	500	68	5%	338-1363-ND◊	2.21	1.89	1.58	MCM01-009ED680J-F
	500	560	5%	338-1322-ND	4.99	4.28	3.57	MCM01-009ED561J-F
	500	1,000	5%	338-1324-ND◊	5.78	4.95	4.13	MCM01-009ED102J-F
	1000	680	5%	338-1360-ND‡	6.06	5.19	4.33	MCM01-009EF681J-F

†	**338-1357-ND** (MIN300VKIT1)	Metal Clad Kit 5 each of marked value	**$49.08**
◊	**338-1358-ND** (MCM500VKIT2)	Metal Clad Kit 5 each of marked value	**$65.36**
‡	**338-1359-ND** (MCM1000VKIT3)	Metal Clad Kit 5 each of marked value	**$72.92**

CDE CORNELL DUBILIER

Multilayer RF MICA Capacitors — Radial Lead

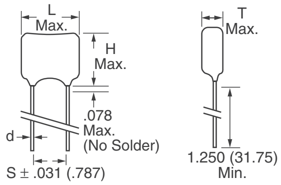

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful throughout the RF frequency range.

Mica capacitors are so efficient that less than 0.05% of the applied volt-amperes is lost as heat. Dipped silver mica capacitors such as the Standard Types are manufactured by applying pure silver to ultra-thin mica plates. The plates are stacked and secured by brass clips with copper-clad steel leads welded to each clip. The extra mass of the metal acts as a heat sink and enables these capacitors to absorb voltage transients up to 100,000 volts per microsecond.

Specifications:

Capacitance Tolerance: • Manufacturer's part number letter: D03 = ±1/2 pF • Manufacturer's part number letter: J03 = ±5% • Manufacturer's part number letter: F03 = ±1% **Temperature Range:** -55°C ~ 125°C

Voltage	Capacitance	Temperature Coefficient (ppm/°C)	Dimensions — Inch (mm) L Max.	H Max.	T Max.	S	d	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
Standard												
100	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1048-ND	4.66	3.99	3.33	CD15FA102JO3
	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1092-ND	7.84	6.72	5.60	CD15FA102FO3
300	680pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1060-ND	4.24	3.63	3.03	CD15FC681JO3
	560pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1081-ND	3.54	3.03	2.53	CD15FC561JO3
500	5pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1064-ND	2.70	2.31	1.93	CD10CD050DO3
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1061-ND	1.37	1.17	.98	CD15CD100JO3
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1068-ND	1.37	1.17	.98	CD15CD100DO3
	15pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1088-ND	2.70	2.31	1.93	CD10CD150JO3
	15pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1054-ND	1.30	1.11	.93	CD15CD150JO3
	20pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1095-ND	2.03	1.74	1.45	CD10ED200JO3
	20pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1051-ND	1.30	1.11	.93	CD15ED200JO3
	22pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1070-ND	2.03	1.74	1.45	CD10ED220JO3
	22pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1049-ND	1.37	1.17	.98	CD15ED220JO3
	27pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1085-ND	1.37	1.17	.98	CD15ED270JO3
	30pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1076-ND	2.03	1.74	1.45	CD10ED300JO3
	30pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1056-ND	1.37	1.17	.98	CD15ED300JO3
	33pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1072-ND	2.03	1.74	1.45	CD10ED330JO3
	33pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1047-ND	1.37	1.17	.98	CD15ED330JO3
	39pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1093-ND	1.37	1.17	.98	CD15ED390JO3
	47pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1053-ND	1.37	1.17	.98	CD15ED470JO3
	68pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1091-ND	1.40	1.20	1.00	CD15ED680JO3
	100pF	0 ~ 70	.370 (9.4)	.350 (8.9)	.200 (5.1)	.141 (3.6)	.016 (.4)	338-1050-ND	2.49	2.13	1.78	CD10FD101JO3
	100pF	0 ~ 70	.460 (11.7)	.360 (9.1)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1042-ND	1.40	1.20	1.00	CD15FD101JO3
	120pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1058-ND	1.54	1.32	1.10	CD15FD121JO3
	150pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1052-ND	1.61	1.38	1.15	CD15FD151JO3
	180pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1082-ND	1.86	1.59	1.33	CD15FD181JO3
	200pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1063-ND	1.86	1.59	1.33	CD15FD201JO3
	220pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1046-ND	1.93	1.65	1.38	CD15FD221JO3
	240pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1079-ND	2.07	1.77	1.48	CD15FD241JO3
	270pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1062-ND	2.24	1.92	1.60	CD15FD271JO3
	300pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1065-ND	2.42	2.07	1.73	CD15FD301JO3
	330pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1045-ND	2.66	2.28	1.90	CD15FD331JO3
	390pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1057-ND	2.84	2.43	2.03	CD15FD391JO3
	470pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1043-ND	3.29	2.82	2.35	CD15FD471JO3
	470pF	0 ~ 70	.640 (16.3)	.510 (13.0)	.200 (5.1)	.344 (8.7)	.032 (.8)	338-1089-ND	2.56	2.19	1.83	CD19FD471JO3
	500pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1069-ND	3.40	2.91	2.43	CD15FD501JO3
	510pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1077-ND	3.54	3.03	2.53	CD15FD511JO3
	680pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1086-ND	2.94	2.52	2.10	CD19FD681JO3
	820pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1094-ND	2.94	2.52	2.10	CD19FD821JO3
	1000pF	0 ~ 70	.650 (16.5)	.520 (13.2)	.220 (5.6)	.344 (8.7)	.025 (.6)	338-1044-ND	3.15	2.70	2.25	CD19FD102JO3
	1500pF	0 ~ 70	.660 (16.8)	.520 (13.2)	.230 (5.8)	.344 (8.7)	.032 (.8)	338-1071-ND	4.10	3.51	2.93	CD19FD152JO3
	2000pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.240 (6.1)	.344 (8.7)	.032 (.8)	338-1074-ND	5.18	4.44	3.70	CD19FD202JO3
	2200pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.250 (6.4)	.344 (8.7)	.032 (.8)	338-1055-ND	5.22	4.47	3.73	CD19FD222JO3
	2700pF	0 ~ 70	.68 (17.3)	.54 (13.7)	.27 (6.9)	.344 (8.7)	.032 (.8)	338-1390-ND	5.60	4.80	4.00	CD19FD272JO3
	3300pF	0 ~ 70	.68 (17.3)	.55 (14.0)	.29 (7.4)	.344 (8.7)	.032 (.8)	338-1391-ND	6.48	5.55	4.63	CD19FD332JO3
	3900pF	0 ~ 70	.69 (17.5)	.56 (14.2)	.31 (7.9)	.344 (8.7)	.032 (.8)	338-1387-ND	7.91	6.78	5.65	CD19FD392JO3
	4700pF	0 ~ 70	.700 (17.8)	.580 (14.7)	.350 (8.9)	.344 (8.7)	.032 (.8)	338-1067-ND	8.89	7.62	6.35	CD19FD472JO3
	10000pF	0 ~ 70	.800 (20.3)	.890 (22.6)	.340 (8.6)	.438 (11.1)	.040 (1.0)	338-1078-ND	19.74	16.92	14.10	CD30FD103JO3
Miniature												
300	5pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1073-ND	2.35	2.01	1.68	CD5CC050DO3
	10pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1090-ND	1.68	1.44	1.20	CD5CC100JO3
	15pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1083-ND	1.75	1.50	1.25	CD5CC150JO3
	20pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1075-ND	1.79	1.53	1.28	CD5EC200JO3
	22pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1080-ND	1.86	1.59	1.33	CD5EC220JO3
	30pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1087-ND	2.00	1.71	1.43	CD5EC300JO3
	33pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1066-ND	2.07	1.77	1.48	CD5EC330JO3
	47pF	-20 ~ 100	.270 (6.9)	.210 (5.3)	.140 (3.6)	.120 (3.0)	.016 (.4)	338-1084-ND	1.86	1.59	1.33	CD5EC470JO3
	100pF	0 ~ 70	.270 (6.9)	.240 (6.1)	.180 (4.6)	.120 (3.0)	.016 (.4)	338-1059-ND	3.40	2.91	2.43	CD5FC101JO3
	100pF	0 ~ 70	.275 (7.0)	.175 (4.4)	.095 (2.4)	.172 (4.4)	.016 (.4)	338-1389-ND	4.87	4.17	3.48	CD6FC101JO3

SPRAGUE GOODMAN

GSX Series SMD Trimmer Capacitors

RoHS COMPLIANT

Specifications:

- **Operating Temperature Range:** -25°C ~ 85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 200VDC
- **Insulation Resistance:** 10^4 MΩ minimum • **Torque:** 20 to 300 g-cm (0.28 to 4.2 oz-in)

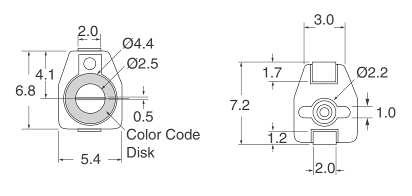

Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 10MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Sprague-Goodman Part No.
0.5	4.5	N100	1000	Orange	SG2018CT-ND	12.90	111.00	SG2018TR-ND	590.25/M	GSX364
0.6	9.0	N100	1000	Black	SG2017CT-ND	14.70	126.00	SG2017TR-ND	679.79/M	GSX358
0.8	15.0	N100	1000	Blue	SG2019CT-ND	17.90	153.73	SG2019TR-ND	768.63/M	GSX365
1.0	20.0	N100	1000	Green	SG2020CT-ND	23.44	200.94	SG2020TR-ND	1103.53/M	GSX366

SURFTRIM® Surface Mount Variable Capacitors

• Sealed Construction • 4 x 4.5 x 2.7mm

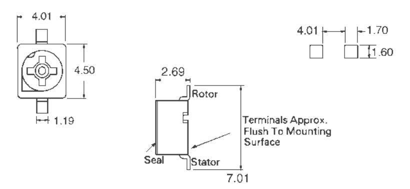

Features: • Process seal provides protection against contaminants (flux, solvents, etc.) during production. • Designed for vapor phase reflow soldering. **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 100VDC • Torque: 15 to 100 g-cm (0.2 to 1.39 in.-oz.)

Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 1MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	25	100	T & R Pricing† 700	Sprague-Goodman Part No.
1.4	3.0	0 ±200	300	Red Dot‡	SG2007CT-ND	6.40	28.00	88.00	371.70	GKG3R067-07

‡ Marking on bottom of capacitor † For Tape and Reel part number, change CT-ND to TR-ND.

SPRAGUE GOODMAN

Ceramic Dielectric Trimmer Capacitors

SURFTRIM® Surface Mount — GKRP, GKYB and GKY Series

Tuning Tool

GTT-21-ND	(SG2026 - SG2029)	**$40.00**
GTT-11-ND	(SG2026 - SG2029)	**$5.52**
GTT-9-ND	(SG9013 - SG9028)	**$5.52**

GKRP SERIES: • Sealed for washability • Low mounting profile • Carrier and reel packaging standard • NPO temperature coefficient (up to 10pF maximum) • Self resonant frequency above 1GHz **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Dielectric Withstanding Voltage: 75VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 25VDC • Torque: 0.14 ~ 2.1 oz-in

GKYB SERIES: • Suitable for reflow soldering • Low mounting profile (only 1.6mm) • Superior setting drift performance **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Voltage Rating: 100VDC • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4MΩ minimum • Torque: 25 ~ 100 g-cm (0.35 ~ 1.39 oz-in)

GKYxxx46 SERIES: • Designed for reflow soldering • Setting drift within 1% • Mounting profile 0.0591"/1.5 maximum • Dust resistant design • Self resonant frequency above 1GHz
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Insulation Resistance: 10^4MΩ minimum • Torque: 10 ~ 72 g-sm (0.14 ~ 1.0 oz-in)

GKYxxx56 SERIES: • Suitable for reflow soldering • Superior setting drift performance • Low mounting profile (only 1.45mm) • Carrier and reel packaging • Dust resistant design
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Insulation Resistance: 10^4MΩ minimum • Torque: 10 ~ 72 g-sm (0.14 ~ 1.0 oz-in)

Capacitance (pF)		DC Working Voltage	TCC (ppm/°C)	Q Min. (1MHz)	Color Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Sprague-Goodman Part No.
Min.	Max.						5	25	100		Qty.	Pricing	
GKRP Series													
3.0	5.0	25	0 ±500	150	—	SG2026CT-ND◆	8.20	35.88	112.75	SG2026TR-ND◆	2,000	660.00/M	GKRP5R066
3.0	10.0	25	0 ±500	150	—	SG2027CT-ND◆	8.20	35.88	112.75	SG2027TR-ND◆	2,000	660.00/M	GKRP10066
5.0	20.0	25	N750 ±500	150	—	SG2028CT-ND◆	8.20	35.88	112.75	SG2028TR-ND◆	2,000	660.00/M	GKRP20066
7.0	30.0	25	N750 ±500	150	—	SG2029CT-ND	8.20	35.88	112.75	SG2029TR-ND	2,000	660.00/M	GKRP30066
GKYB Series — RoHS Compliant													
1.7	3.0	100	NP0 ±300	300	Brown	SG2035CT-ND	2.98	13.04	40.98	—	—	—	GKYB3R066
7.5	30.0	100	N1200 ±500	300	Green	SG2039CT-ND	2.98	13.04	40.98	SG2039TR-ND	1,000	265.60	GKYB30066
NEW! GKYxxx46 Series — RoHS Compliant NEW!													
1.5	3.0	100	0 ±200	500	Black	SG9028CT-ND	6.20	27.13	85.25	SG9028TR-ND	1,000	514.60	GKY3R046
2.0	6.0	100	0 ±300	500	Blue	SG9027CT-ND	6.20	27.13	85.25	SG9027TR-ND	1,000	514.60	GKY6R046
3.0	8.0	100	-750 ±500	500	Violet	SG9026CT-ND	6.20	27.13	85.25	SG9026TR-ND	1,000	514.60	GKY8R046
2.0	10.0	50	0 ±300	500	—	SG9025CT-ND	6.20	27.13	85.25	SG9025TR-ND	1,000	514.60	GKY10046
3.0	15.0	50	0 ±500	500	Pink	SG9024CT-ND	6.20	27.13	85.25	SG9024TR-ND	1,000	514.60	GKY15046
4.5	20.0	50	0 ±500	500	Red	SG9023CT-ND	6.20	27.13	85.25	SG9023TR-ND	1,000	514.60	GKY20046
5.5	30.0	50	-750 ±500	200	Orange	SG9022CT-ND	6.20	27.13	85.25	SG9022TR-ND	1,000	514.60	GKY30046
8.0	40.0	50	-750 ±500	200	Yellow	SG9021CT-ND	6.20	27.13	85.25	SG9021TR-ND	1,000	514.60	GKY40046
NEW! GKYxxx56 Series — RoHS Compliant NEW!													
1.5	3.0	100	0 ±200	500	Black	SG9020CT-ND	7.80	34.13	107.25	SG9020TR-ND	1,000	647.40	GKY3R056
2.0	6.0	100	0 ±300	500	Blue	SG9019CT-ND	7.80	34.13	107.25	SG9019TR-ND	1,000	647.40	GKY6R056
3.0	8.0	100	-750 ±500	500	Violet	SG9018CT-ND	7.80	34.13	107.25	SG9018TR-ND	1,000	647.40	GKY8R056
2.0	10.0	50	0 ±300	500	—	SG9017CT-ND	8.40	36.75	115.50	SG9017TR-ND	1,000	697.20	GKY10056
3.0	15.0	50	0 ±500	500	Pink	SG9016CT-ND	8.40	36.75	115.50	SG9016TR-ND	1,000	697.20	GKY15056
4.5	20.0	50	0 ±500	500	Red	SG9015CT-ND	8.40	36.75	115.50	SG9015TR-ND	1,000	697.20	GKY20056
5.5	30.0	50	-750 ±500	200	Orange	SG9014CT-ND	8.40	36.75	115.50	SG9014TR-ND	1,000	697.20	GKY30056
8.0	40.0	50	-750 ±500	200	Yellow	SG9013CT-ND	8.40	36.75	115.50	SG9013TR-ND	1,000	697.20	GKY40056

◆ *RoHS Compliant*

GKRP Series

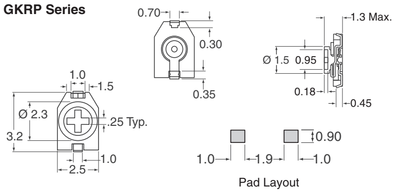

GKYB Series

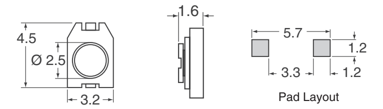

GKYxxx46 Series ***NEW!***

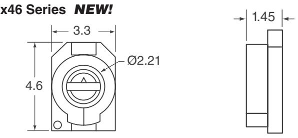

GKYxxx56 Series ***NEW!***

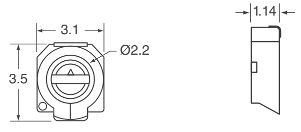

Top and Bottom/Side Adjust FILMTRIM® Plastic Dielectric Capacitors

GYA, GYB Series — 8mm; GYC, GYD, GZC, GZD Series — 10mm

Tuning Tool

SG9004-ND **$15.44**

Features: • Compact size • Most stable TCC for single turn trimmers • Low cost for commercial/industrial applications • Linear capacitance change vs. rotation **Specifications:** • Dielectric Construction: GYA, GYB, GYC, GYD Series: Polypropylene; GZC and GZD Series: Polycarbonate • Voltage Rating: 100WVDC • Dielectric Withstanding Voltage: 200VDC • Operating Temperature: GYA and GYB Series: -40°C ~ 70°C; GYC, GYD, GZC, GZD Series: -40°C ~ 85°C • Contact Resistance: <0.010 Ohm • Insulation Resistance: >10,000MΩ • Torque: GYA and GYB Series: 0.2-3.0 in.-oz.; GYC, GYD, GZC, GZD Series: 0.2-5.5 in.-oz. • Q (minimum) @ 1MHz: GYA, GYB, GYC, GYD Series: 1000; GZC and GZD Series: 200

Fig.	Capacitance (pF)		TCC (ppm/°C)	Dimensions (mm)			Color Code	Digi-Key Part No.	Pricing			Sprague-Goodman Part No.
	Min.	Max.		A	B	C			1	10	100	
8mm												
1A	1.6	5	0±300	8.51	7.87	10.2	Gray	SG3000-ND	1.09	9.30	85.25	GYA5R000
	2.0	10	0±300	8.51	7.87	10.2	Yellow	SG3001-ND	1.09	9.30	85.25	GYA10000
	2.0	15	0±400	8.51	7.87	10.2	Blue	SG3002-ND	1.19	10.20	93.50	GYA15000
	2.2	22	0±400	8.51	7.87	10.2	Green	SG3003-ND	1.19	10.20	93.50	GYA22000
	2.3	27	0±350	8.51	7.87	10.2	Red	SG3004-ND	1.23	10.50	96.25	GYA27000
	3.0	36	0±300	8.51	7.87	10.2	Violet	SG3005-ND	1.82	15.60	143.00	GYA36000
2A	2.0	15	0±400	8.51	7.87	10.2	Blue	SG3022-ND	2.07	17.70	162.25	GYB15000
	2.2	22	0±400	8.51	7.87	10.2	Green	SG3023-ND	2.07	17.70	162.25	GYB22000
	2.3	27	0±350	8.51	7.87	10.2	Red	SG3024-ND	2.14	18.30	167.75	GYB27000
10mm												
1B	2.0	15	0±400	11	10.16	10.2	Blue	SG3006-ND	1.51	12.90	118.25	GYC15000
	3.0	20	0±400	11	10.16	10.2	Green	SG3007-ND	1.54	13.20	121.00	GYC20000
	3.5	40	0±350	11	10.16	10.2	Clear	SG3008-ND	1.47	12.60	115.50	GYC40000
	4.5	65	0±350	11	10.16	10.2	Yellow	SG3009-ND	1.51	12.90	118.25	GYC65000
2B	2.0	15	0±400	11	10.16	10.2	Blue	SG3025-ND	2.07	17.70	162.25	GYD15000
	3.0	20	0±400	11	10.16	10.2	Green	SG3026-ND	2.10	18.00	165.00	GYD20000
	3.0	40	0±350	11	10.16	10.2	Clear	SG3027-ND	2.24	19.20	176.00	GYD40000
	4.5	65	0±350	11	10.16	10.2	Yellow	SG3028-ND	2.49	21.30	195.25	GYD65000
1B	8.0	80	0±200	11	10.16	11.4	Red	SG3010-ND	2.03	17.40	159.50	GZC80000
	9.0	100	0±400	11	10.16	11.4	Violet	SG3011-ND	3.22	27.60	253.00	GZC10100
	9.0	120	0±350	11	10.16	11.4	Orange	SG3012-ND	4.80	41.10	376.75	GZC12100
	10.0	150	0±350	11	10.16	12.0	Orange	SG3013-ND	5.60	48.00	440.00	GZC15100
	10.0	180	0±350	11	10.16	12.0	Orange	SG3014-ND	6.55	56.10	514.25	GZC18100
2B	9.0	100	0±400	11	10.16	11.4	Violet	SG3016-ND	4.06	34.80	319.00	GZD10100
	9.0	120	0±350	11	10.16	11.4	Orange	SG3017-ND	5.50	47.10	431.75	GZD12100
	10.0	150	0±350	11	10.16	12.0	Orange	SG3018-ND	6.23	53.40	489.50	GZD15100
	10.0	180	0±350	11	10.16	12.0	Orange	SG3019-ND	6.97	59.70	547.25	GZD18100

Fig. 1

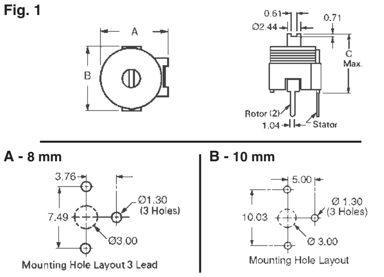

A - 8 mm Mounting Hole Layout 3 Lead

B - 10 mm Mounting Hole Layout

Fig. 2

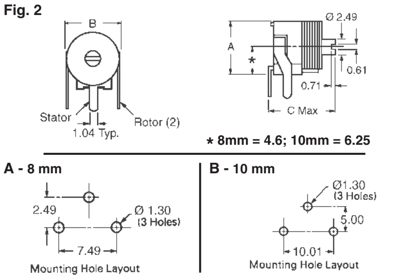

⁎ 8mm = 4.6; 10mm = 6.25

A - 8 mm Mounting Hole Layout

B - 10 mm Mounting Hole Layout

SGC3 Series Chip Trimmer Capacitors

Features:
• Ultra miniature size • Constructed with high temperature liquid-crystal polymer for superior durability and low dielectric loss • Designed for reflow soldering • Color coded for easy identification • Mountable by an automatic placer • Easy adjustment using a conventional screwdriver **Specifications:** • Insulation Resistance: 10^4 MΩ Min • Torque: 0.14 ~ 1.0 oz-in. • Operating Temperature: -25°C ~ 85°C

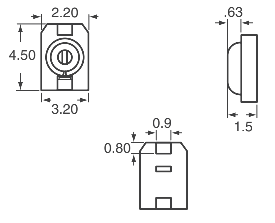

Capacitance (pF)		Temperature Coefficient (ppm/°C)	Q @ 1MHz	DC Working Voltage	DC Withstanding Voltage	Color	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Sprague-Goodman Part No.
Min.	Max.							5	25	100			
1.2	3	N470 ±60	300	100	220	Black	SG9008CT-ND	1.04	.91	.72	SG9008TR-ND	431.60	SGC3S030
2.2	6	N470 ±60	500	100	220	Blue	SG9009CT-ND	1.04	.91	.72	SG9009TR-ND	431.60	SGC3S060
3.0	10	N1000 ±250	500	50	110	Ivory	SG9010CT-ND	1.04	.91	.72	SG9010TR-ND	431.60	SGC3S100
5.5	20	N1000 ±250	500	50	110	Pink	SG9011CT-ND	1.04	.91	.72	SG9011TR-ND	431.60	SGC3S200
8.0	30	N1200 ±200	500	50	110	Green	SG9012CT-ND	1.04	.91	.72	SG9012TR-ND	431.60	SGC3S300

Ceramic Trimmer Capacitors – TZ03 Series

Dim. in mm

Color coded case facilitates identification of capacitance range. Sealed construction prevents the penetration of flux and dust. Cross shaped slot enables automatic adjustment.

Specifications:

- Insulation Resistance: 10,000MΩ minimum
- Torque: 2.0 ~ 15.0mNm
- Operating Temperature Range: -25°C ~ 85°C

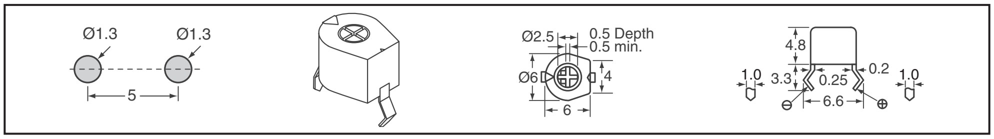

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Stator/ Case Color	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1.25	2.3 + 50/-0%	NPO ±200ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Black	490-1973-ND	.43	.37	.34	TZ03Z2R3F169B00
1.5	5.0 + 50/-0%	NPO ±200ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-1967-ND	.43	.37	.34	TZ03Z050F169B00
2.0	7.0 + 50/-0%	NPO ±200ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-1969-ND	.43	.37	.34	TZ03Z070F169B00
2.7	10.0 + 50/-0%	NPO ±200ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-1971-ND	.43	.37	.34	TZ03Z100F169B00
3.0	11.0 + 50/-0%	N450 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	White	490-1965-ND	.43	.37	.34	TZ03T110F169B00
4.2	20.0 + 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Red	490-1959-ND	.43	.37	.34	TZ03R200F169B00
5.2	30.0 + 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Green	490-1961-ND	.43	.37	.34	TZ03R300F169B00
6.8	45.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Yellow	490-1953-ND	.43	.37	.34	TZ03P450F169B00
9.8	60.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Brown	490-1955-ND	.43	.37	.34	TZ03P600F169B00
6.0	50.0 + 100/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Orange	490-1975-ND	1.07	.92	.85	TZ03Z500F169B00
9.0	90.0 + 100/-0%	N750 ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black+Dot	490-1963-ND	1.07	.92	.85	TZ03R900F169B00
10.0	120.0 + 100/-0%	N750 ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black	490-1957-ND	1.07	.92	.85	TZ03R121F169B00
Tuning Tool for Manual Adjustment							490-2607-ND	8.09	—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZY2 Series

New shape of cover can improve the flux invasion compared with current products. Improvement of the adhesion between rotor and stator leads superior stability. Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering.

Specifications:

• Insulation Resistance: 10,000MΩ minimum • Torque: 0.5-5.0mNm • Operating Temperature Range: -25°C ~ 85°C

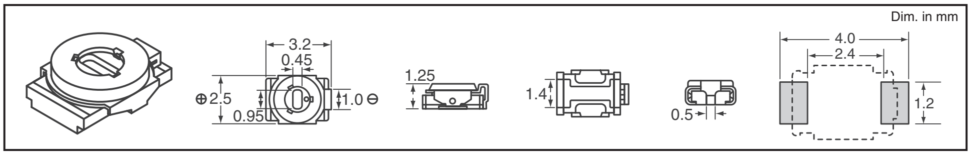

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Murata Part No.
0.5	1.0 + 100/-0%	NPO ±300ppm/°C	200 min. @ 200MHz, Cmax.	25	55	490-2009-1-ND	1.06	.93	.73	490-2009-2-ND	395.00/M	TZY2Z010A001R00
0.65	2.5 + 100/-0%	NPO ±300ppm/°C	200 min. @ 200MHz, Cmax.	25	55	490-2008-1-ND	.73	.64	.50	490-2008-2-ND	271.00/M	TZY2Z2R5A001R00
1.5	3.0 + 100/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	25	55	490-2005-1-ND	.73	.64	.50	490-2005-2-ND	271.00/M	TZY2Z030A001R00
2.5	6.0 + 100/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	25	55	490-2006-1-ND	.73	.64	.50	490-2006-2-ND	271.00/M	TZY2Z060A001R00
3.0	10.0 + 100/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	25	55	490-2007-1-ND	.73	.64	.50	490-2007-2-ND	271.00/M	TZY2Z100A001R00
4.5	20.0 + 100/-0%	N750 ±500ppm/°C	500 min. @ 1MHz, Cmax.	25	55	490-2003-1-ND	.73	.64	.50	490-2003-2-ND	271.00/M	TZY2R200A001R00
5.5	25.0 + 100/-0%	N750 ±500ppm/°C	300 min. @ 1MHz, Cmax.	25	55	490-2004-1-ND	.73	.64	.50	490-2004-2-ND	271.00/M	TZY2R250A001R00
8.0	45.0 + 100/-0%	N1000 ±500ppm/°C	300 min. @ 1MHz, Cmax.	25	55	490-2002-1-ND	.89	.78	.62	490-2002-2-ND	333.00/M	TZY2K450A001R00
Tuning Tool for Manual Adjustment						490-2608-ND		19.13/1		—	—	KMDR060

SMD Ceramic Trimmer Capacitors – TZR1 Series

Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering. Harmful materials (lead, etc.) are not contained in the product.

Specifications:

• Insulation Resistance: 10,000MΩ minimum • Torque: 0.1-1.0mNm • Operating Temperature Range: -25°C ~ 85°C

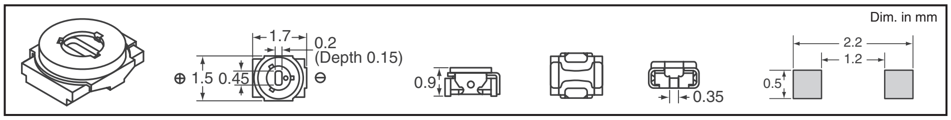

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Murata Part No.
0.55	1.0 + 100/-0%	NPO ±300ppm/°C	200 min. @ 200MHz, Cmax.	25	55	490-2012-1-ND	4.99	4.37	3.44	490-2012-2-ND	1872.00/M	TZR1Z010A001R00
0.7	1.5 + 100/-0%	NPO ±300ppm/°C	200 min. @ 200MHz, Cmax.	25	55	490-2013-1-ND	4.99	4.37	3.44	490-2013-2-ND	1872.00/M	TZR1Z1R5A001R00
1.5	4.0 + 100/-0%	NPO ±500ppm/°C	300 min. @ 1MHz, Cmax.	25	55	490-2010-1-ND	4.99	4.37	3.44	490-2010-2-ND	1872.00/M	TZR1Z040A001R00
3.0	8.0 + 100/-0%	N750 ±500ppm/°C	300 min. @ 1MHz, Cmax.	25	55	490-2011-1-ND	4.99	4.37	3.44	490-2011-2-ND	1872.00/M	TZR1R080A001R00
Tuning Tool for Manual Adjustment						490-2609-ND		32.44/1		—	—	KMDR160

SMD Ceramic Trimmer Capacitors – TZC3 Series

Color coded stator permits easy identification of capacitance and reduces mounting errors. Can be adjusted with conventional adjustment tools having a thickness of 0.5mm. Designed for automatic placement in surface mount applications. Heat resistant resin withstands reflow soldering temperatures. **Specifications:** • Insulation Resistance: 10,000MΩ minimum • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Fig. 1

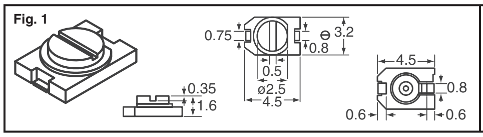

Fig. 2

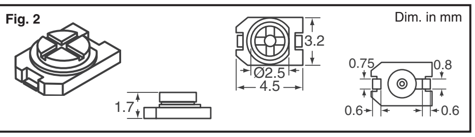

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Stator/ Case Color	Digi-Key Part No.	Cut Tape Price Each 5	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Brown	490-1998-1-ND	.75	.66	.52	490-1998-2-ND	280.00	TZC3Z030A110R00
	2.0	6.0 ± 50/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-2000-1-ND	.75	.66	.52	490-2000-2-ND	280.00	TZC3Z060A110R00
	3.0	10.0 ± 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	White	490-1996-1-ND	.75	.66	.52	490-1996-2-ND	280.00	TZC3R100A110R00
	5.0	20.0 ± 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Red	490-1992-1-ND	.75	.66	.52	490-1992-2-ND	280.00	TZC3P200A110R00
	6.5	30.0 ± 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Green	490-1994-1-ND	.75	.66	.52	490-1994-2-ND	280.00	TZC3P300A110R00
2	1.4	3.0 ± 50/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Brown	490-1999-1-ND	.75	.66	.52	490-1999-2-ND	280.00	TZC3Z030A310R00
	2.0	6.0 ± 50/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-2001-1-ND	.75	.66	.52	490-2001-2-ND	280.00	TZC3Z060A310R00
	3.0	10.0 ± 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	White	490-1997-1-ND	.75	.66	.52	490-1997-2-ND	280.00	TZC3R100A310R00
	5.0	20.0 ± 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Red	490-1993-1-ND	.75	.66	.52	490-1993-2-ND	280.00	TZC3P200A310R00
	6.5	30.0 ± 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Green	490-1995-1-ND	.75	.66	.52	490-1995-2-ND	280.00	TZC3P300A310R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		8.09/1		—	—	KMDR010

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Ceramic Trimmer Capacitors –TZW4 Series

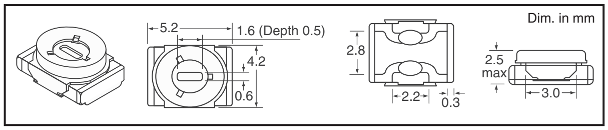

Features: • Extremely high self resonant frequency (more than 3GHz @ 1.5pF setting) • Typical application: Impedance matching for Cellular Base Station • Available for pick and place machine. Possible thinner design due to 2.5mm low profile

C min. (max.) (pF)	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Murata Part No.
0.4	1.5 + 100/-0%	NP0 ±300ppm/°C	200min. @ 500MHz, Cmax.	250	550	490-3914-1-ND	6.22	5.26	4.59	490-3914-2-ND	1721.00	TZW4Z1R5A001R00

SMD Ceramic Trimmer Capacitors – TZB4 Series

Fig. 1

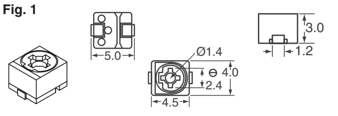

Fig. 2

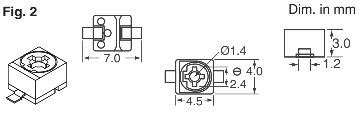

Color coded case facilitates identification of capacitance range. Designed for automatic placement in surface mount applications. Can be temporarily attached to PCB with adhesives. **Specifications:** • Insulation Resistance: 10,000MΩ minimum • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage (VDC)	Withstanding Voltage (VDC)	Stator/ Case Color	Digi-Key Part No.	Cut Tape Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 500	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ±200ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Brown	490-1984-1-ND	.81	.71	.56	490-1984-2-ND	168.00	TZB4Z030AA10R00
	2.0	6.0 + 50/-0%	NPO ±200ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-1986-1-ND	.80	.70	.55	490-1986-2-ND	164.50	TZB4Z060AA10R00
	3.0	10.0 + 50/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	White	490-1988-1-ND	.80	.70	.55	490-1988-2-ND	164.50	TZB4Z100AA10R00
	4.0	25.0 + 100/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black+Marking	490-1990-1-ND	1.46	1.28	1.00	490-1990-2-ND	301.50	TZB4Z250AA10R00
	4.5	20.0 + 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Red	490-1980-1-ND	.80	.70	.55	490-1980-2-ND	164.50	TZB4R200AA10R00
	6.5	30.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Green	490-1976-1-ND	.81	.71	.56	490-1976-2-ND	168.00	TZB4P300AA10R00
	7.0	50.0 + 100/-0%	N750 ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black+Marking	490-1982-1-ND	1.46	1.28	1.00	490-1982-2-ND	301.50	TZB4R500AA10R00
	8.5	40.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Yellow	490-1978-1-ND	.81	.71	.56	490-1978-2-ND	168.00	TZB4P400AA10R00
2	1.4	3.0 + 50/-0%	NPO ±200ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Brown	490-1985-1-ND	.81	.71	.56	490-1985-2-ND	168.00	TZB4Z030BA10R00
	2.0	6.0 + 50/-0%	NPO ±200ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Blue	490-1987-1-ND	.80	.70	.55	490-1987-2-ND	164.50	TZB4Z060BA10R00
	3.0	10.0 + 50/-0%	NPO ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	White	490-1989-1-ND	.80	.70	.55	490-1989-2-ND	164.50	TZB4Z100BA10R00
	4.0	25.0 + 100/-0%	NPO ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black+Marking	490-1991-1-ND	1.46	1.28	1.00	490-1991-2-ND	301.50	TZB4Z250BA10R00
	4.5	20.0 + 50/-0%	N750 ±300ppm/°C	500 min. @ 1MHz, Cmax.	100	220	Red	490-1981-1-ND	.80	.70	.55	490-1981-2-ND	164.50	TZB4R200BA10R00
	6.5	30.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Green	490-1977-1-ND	.80	.70	.55	490-1977-2-ND	164.50	TZB4P300BA10R00
	7.0	50.0 + 100/-0%	N750 ±300ppm/°C	300 min. @ 1MHz, Cmax.	50	110	Black+Marking	490-1983-1-ND	1.46	1.28	1.00	490-1983-2-ND	301.50	TZB4R500BA10R00
	8.5	40.0 + 50/-0%	N1200 ±500ppm/°C	300 min. @ 1MHz, Cmax.	100	220	Yellow	490-1979-1-ND	.80	.70	.55	490-1979-2-ND	164.50	TZB4P400BA10R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		8.09/1		—	—	KMDR010

SMD Ceramic Trimmer Capacitors

Fig. 1

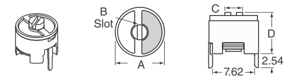

Part Numbers	Dimensions - mm A	B	C	D
410-1217 ~ 410-1221	ø9.40	0.82W x 0.76D	ø3.30	7.87
410-1222	ø9.53	0.81W x 0.76D	ø3.18	7.88

Fig. 2

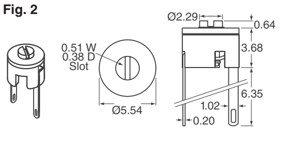

Fig. 3

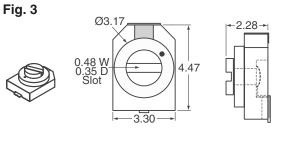

Fig.	Capacitance Range (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
1	2.0 ~ 8.0	410-1217-ND	32.23	27.63	23.02	CV31A080
	5.5 ~ 18.0	410-1218-ND	32.23	27.63	23.02	CV31A180
	2.5 ~ 11.0	410-1219-ND	32.23	27.63	23.02	CV31B110
	8.0 ~ 25.0	410-1220-ND	32.23	27.63	23.02	CV31C250
	9.0 ~ 35.0	410-1221-ND	32.23	27.63	23.02	CV31D350
	15.0 ~ 60.0	410-1222-ND	32.23	27.63	23.02	CV31E600
2	2.5 ~ 9.0	410-1223-ND	51.31	43.98	36.65	CV35A090
	3.5 ~ 20.0	410-1224-ND	51.31	43.98	36.65	CV35A200
	5.0 ~ 15.0	410-1225-ND	51.31	43.98	36.65	CV35A150
	5.0 ~ 25.0	410-1226-ND	51.31	43.98	36.65	CV35A250

Fig.	Capacitance Range (pF)	Digi-Key Part No.	Price Each 1	10	100	Tusonix Part No.
2	7.0 ~ 40.0	410-1227-ND	51.31	43.98	36.65	CV35C400
3	1.0 ~ 3.0	410-1027-1-ND†◆	5.53	4.75	3.96	0512-000-A-1.0-3LF
	1.0 ~ 3.0	410-1027-2-ND‡◆		2150.16/800		0512-000-A-1.0-3LF
	1.5 ~ 5.0	410-1028-1-ND†◆	5.53	4.75	3.96	0512-000-A-1.5-5LF
	1.5 ~ 5.0	410-1028-2-ND‡◆		2150.16/800		0512-000-A-1.5-5LF
	3.0 ~ 10.0	410-1029-1-ND†◆	5.92	5.07	4.23	0512-000-A-3.0-10LF
	3.0 ~ 10.0	410-1029-2-ND‡◆		2298.40/800		0512-000-A-3.0-10LF
	4.5 ~ 20.0	410-1030-1-ND†◆	5.92	5.07	4.23	0512-000-A-4.5-20LF
	4.5 ~ 20.0	410-1030-2-ND‡◆		2298.40/800		0512-000-A-4.5-20LF

† Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

Trimmer Capacitors – CTZ3 Series

Features: • SMD • Small and thin package • Wide capacitance range • Plus slot (+) suitable for auto-adjustment **Applications:** • AV equipment • Cellular phone • Cordless phone • TCXO • Keyless entry

Specifications: • Rated voltage: 25VDC • Operating Temperature Range: -40°C ~ 85°C • Insulation Resistance: ≥10^4MΩ • Torque: 10 ~ 150g.cm

C min. (max.) (pF)	C max. (pF)	TC	Q	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
1.0	3 + 100/-0%	NP0 ±500ppm/°C	300min. @ 1MHz	478-4699-1-ND	1.58	1.49	1.23	478-4699-2-ND	581.00	CTZ3E-03A-W1-PF
1.5	5 + 100/-0%	NP0 ±500ppm/°C	300min. @ 1MHz	478-4700-1-ND	1.46	1.38	1.14	478-4700-2-ND	538.00	CTZ3E-05A-W1-PF
1.5	10 + 100/-0%	N400 ±500ppm/°C	300min. @ 1MHz	478-4701-1-ND	1.58	1.49	1.23	478-4701-2-ND	581.00	CTZ3E-10B-W1-PF
4.5	20 + 100/-0%	N750 ±500ppm/°C	300min. @ 1MHz	478-4702-1-ND	1.46	1.38	1.14	478-4702-2-ND	539.00	CTZ3E-20C-W1-PF
4.5	40 + 100/-0%	N750 ±500ppm/°C	300min. @ 1MHz	478-4703-1-ND	1.58	1.49	1.23	478-4703-2-ND	581.00	CTZ3E-40C-W1-PF
4.5	50 + 100/-0%	N750 ±500ppm/°C	200min. @ 1MHz	478-4704-1-ND	1.58	1.49	1.23	478-4704-2-ND	581.00	CTZ3E-50C-W1-PF

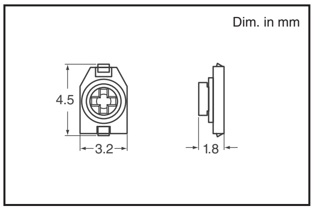

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SSM **SUSUMU**
THIN FILM TECHNOLOGY

Thin Film Fixed SMD Attenuators

PAT0510S and PAT1220 Series

Specifications:

• Attenuation: 0 ~ 10dB • VSWR: 1.3 or less • Frequency Range: DC ~ 10GHz • Operating Temperature: -55°C ~ 125°C • Impedance: 50Ω • Rated Ambient Temperature: 70°

Materials:

• Resistor: Nichrome Thin Film • Protection Film: Epoxy Resin • Substrate: Alumina • Marking: White Ink • Terminals: Sn Plate (Sn is free from lead)

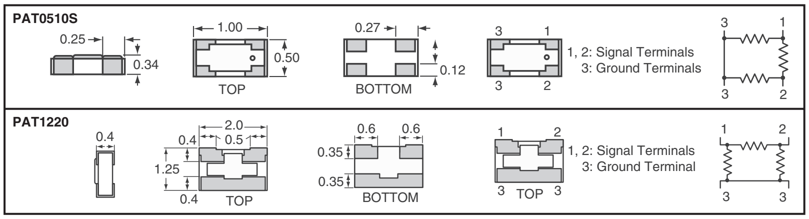

Type	Attenuation Value (dB)	Attenuation Tolerance	Rated Input Power	Impedance Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
PAT0510S	0	±0.3dB	32mW	±20% @ DC	PAT05S0CT-ND	.61	4.17	11.91	PAT05S0TR-ND	10,000	46.00/M	PAT0510S-C-0DB-T10
	1	±0.3dB	32mW	±20% @ DC	PAT05S1CT-ND	.61	4.17	11.91	PAT05S1TR-ND	10,000	46.00/M	PAT0510S-C-1DB-T10
	2	±0.3dB	32mW	±20% @ DC	PAT05S2CT-ND	.61	4.17	11.91	PAT05S2TR-ND	10,000	46.00/M	PAT0510S-C-2DB-T10
	3	±0.3dB	32mW	±20% @ DC	PAT05S3CT-ND	.61	4.17	11.91	PAT05S3TR-ND	10,000	46.00/M	PAT0510S-C-3DB-T10
	4	±0.5dB	32mW	±20% @ DC	PAT05S4CT-ND	.61	4.17	11.91	PAT05S4TR-ND	10,000	46.00/M	PAT0510S-C-4DB-T10
	5	±0.5dB	32mW	±20% @ DC	PAT05S5CT-ND	.61	4.17	11.91	—	—	—	PAT0510S-C-5DB-T10
	6	±0.5dB	32mW	±20% @ DC	PAT05S6CT-ND	.61	4.17	11.91	PAT05S6TR-ND	10,000	46.00/M	PAT0510S-C-6DB-T10
	7	±0.5dB	32mW	±20% @ DC	PAT05S7CT-ND	.61	4.17	11.91	PAT05S7TR-ND	10,000	46.00/M	PAT0510S-C-7DB-T10
	8	±0.7dB	32mW	±20% @ DC	PAT05S8CT-ND	.61	4.17	11.91	PAT05S8TR-ND	10,000	46.00/M	PAT0510S-C-8DB-T10
	9	±0.7dB	32mW	±20% @ DC	PAT05S9CT-ND	.61	4.17	11.91	PAT05S9TR-ND	10,000	46.00/M	PAT0510S-C-9DB-T10
	10	±0.7dB	32mW	±20% @ DC	PAT05S10CT-ND	.61	4.17	11.91	PAT05S10TR-ND	10,000	46.00/M	PAT0510S-C-10DB-T10
PAT1220	0	±0.3dB	100mW	±7% @ DC	PAT120CT-ND	.88	6.15	22.45	PAT120TR-ND	5,000	134.00/M	PAT1220-C-0DB-T5
	1	±0.3dB	100mW	±7% @ DC	PAT121CT-ND	.88	6.15	22.45	PAT121TR-ND	5,000	134.00/M	PAT1220-C-1DB-T5
	2	±0.3dB	100mW	±7% @ DC	PAT122CT-ND	.88	6.15	22.45	PAT122TR-ND	5,000	134.00/M	PAT1220-C-2DB-T5
	3	±0.3dB	100mW	±7% @ DC	PAT123CT-ND	.88	6.15	22.45	PAT123TR-ND	5,000	134.00/M	PAT1220-C-3DB-T5
	4	±0.3dB	100mW	±7% @ DC	PAT124CT-ND	.88	6.15	22.45	PAT124TR-ND	5,000	134.00/M	PAT1220-C-4DB-T5
	5	±0.3dB	100mW	±7% @ DC	PAT125CT-ND	.88	6.15	22.45	PAT125TR-ND	5,000	134.00/M	PAT1220-C-5DB-T5
	6	±0.3dB	100mW	±7% @ DC	PAT126CT-ND	.88	6.15	22.45	PAT126TR-ND	5,000	134.00/M	PAT1220-C-6DB-T5
	7	±0.3dB	100mW	±7% @ DC	PAT127CT-ND	.88	6.15	22.45	PAT127TR-ND	5,000	134.00/M	PAT1220-C-7DB-T5
	8	±0.3dB	100mW	±7% @ DC	PAT128CT-ND	.88	6.15	22.45	PAT128TR-ND	5,000	134.00/M	PAT1220-C-8DB-T5
	9	±0.3dB	100mW	±7% @ DC	PAT129CT-ND	.88	6.15	22.45	PAT129TR-ND	5,000	134.00/M	PAT1220-C-9DB-T5
	10	±0.3dB	100mW	±7% @ DC	PAT1210CT-ND	.88	6.15	22.45	PAT1210TR-ND	5,000	134.00/M	PAT1220-C-10DB-T5

RM Series Metal Film Chip Resistor Networks

0805, 1206, 0.1% Voltage Divider or Isolated Configurations

Specifications:

- **Resistance Tolerance:** ±0.1%
- **Resistance Tracking Tolerance:** ±0.05%
- **TCR ppm/°C:** ±25ppm
- **PCR Tracking ppm/°C:** ±5ppm

Dimension (mm)	RM2012 (0805)	RM3216 (1206)
L	2.0 ±0.2	3.2 ±0.2
W	1.25 ±0.2	1.6 ±0.2
T	0.4 ±0.1	0.4 ±0.1
a	0.6 ±0.2	1.0 ±0.2
b	0.35 ±0.2	0.4 ±0.2

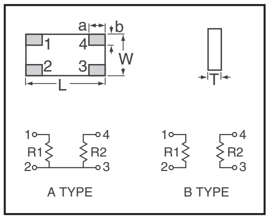

Resistor Value (Ratio) Chart RM2012 and RM3216

Value (Ratio)	Value (Ratio)	Value (Ratio)	Value (Ratio)	Value (Ratio)
1.0K/1.0K (1:1)	1.0K/9.0K (1:9)	2.0K/10K (1:5)	5.0K/100K (1:20)	10K/60K (1:6)
1.0K/2.0K (1:2)	1.0K/10K (1:10)	2.0K/20K (1:10)	10K/10K (1:1)	10K/90K (1:9)
1.0K/3.0K (1:3)	1.0K/20K (1:20)	2.0K/40K (1:20)	10K/20K (1:2)	10K/100K (1:10)
1.0K/4.0K (1:4)	1.0K/25K (1:25)	2.0K/50K (1:25)	10K/30K (1:3)	100K/100K (1:1)
1.0K/5.0K (1:5)	1.0K/50K (1:50)	2.0K/100K (1:50)	10K/40K (1:4)	100K/200K (1:2)‡
1.0K/6.0K (1:6)	1.0K/100K (1:100)	2.0K/200K (1:100)‡	10K/50K (1:5)	100K/300K (1:3)‡

‡ Available only in RM3216 Series

Description	Circuit Type	Element Power (W)	Package Power (W)	Digi-Key Part No.†	Cut Tape Pricing 5	10	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000	Susumu Part No.
0.1%, 0805	(A) Voltage Divider	.05	.10	RM20A(Value)PCT-ND	8.85	16.33	124.74	RM20A(Value)PTR-ND	603.00	RM2012A-(Value)-PBVW10
0.1%, 0805	(B) Isolated	.05	.10	RM20B(Value)PCT-ND	8.85	16.33	124.74	RM20B(Value)PTR-ND	603.00	RM2012B-(Value)-PBVW10
0.1%, 1206	(A) Voltage Divider	.063	.125	RM32A(Value)PCT-ND	8.85	16.33	124.74	RM32A(Value)PTR-ND	603.00	RM3216A-(Value)-PBVW10
0.1%, 1206	(B) Isolated	.063	.125	RM32B(Value)PCT-ND	8.85	16.33	124.74	RM32B(Value)PTR-ND	603.00	RM3216B-(Value)-PBVW10

† For complete part number, substitute value from Resistor Value (Ratio) Chart for (Value).

0402 / 0603 / 0805 SMD 1% High Power Thin Film Chip Resistors

RP Series — 1/3, 1/5, 1/6 Watt

Susumu's RP series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.

Operating Temperature: -40°C ~ 125°C
Maximum Operating Voltage: $\sqrt{PxR}$

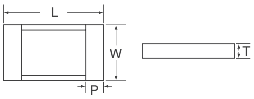

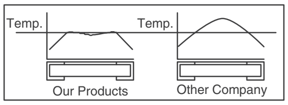

Resistor Value Chart

.10	.22	.47	1.0	2.2	4.7	10	22	47	100
.12	.27	.56	1.2	2.7	5.6	12	27	56	
.15	.33	.68	1.5	3.3	6.8	15	33	68	
.18	.39	.82	1.8	3.9	8.2	18	39	82	

Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm) L	W	P	T	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Susumu Part No.
1%, 0402, 1/6W	.10 ~ 47	0 ~ 200	1.00	0.50	0.20	0.35	RP10S(Value)FCT-ND	5.05	17.96	56.13	RP10S(Value)FTR-ND	10,000	95.00/M	RP1005S-xxx-F
1%, 0603, 1/5W	.10 ~ 68	0 ~ 200	1.60	0.80	0.20	0.45	RP16S(Value)FCT-ND	4.96	15.00	49.55	RP16S(Value)FTR-ND	5,000	70.00/M	RP1608S-xxx-F
1%, 0805, 1/3W	.10 ~ 10	0 ~ 350	2.00	1.25	0.40	0.40	RP20T(Value)FCT-ND	4.86	13.89	44.65	RP20T(Value)FTR-ND	5,000	57.00/M	RP2012T-xxx-F
1%, 0805, 1/3W	12 ~ 100	0 ~ 200	2.00	1.25	0.40	0.40	RP20S(Value)FCT-ND	4.86	13.89	44.65	RP20S(Value)FTR-ND	5,000	57.00/M	RP2012S-xxx-F

† For complete part number, substitute value from Resistor Value Chart for (Value).

1% SMD Resistors Digi-Key® Assortment Kits

Digi-Key® 0402, 1%, 1/6W, RP Series, SMD Resistor Kits
RP1005SF-1-KIT-ND 10 each of values .10Ω ~ 47Ω **$59.95**

Digi-Key® 0603, 1%, 1/5W, RP Series, SMD Resistor Kits
RP1608SF-1-KIT-ND 10 each of values .10Ω ~ 68Ω **$49.95**

Digi-Key® 0805, 1%, 1/3W, RP Series, SMD Resistor Kits

RP2012SF-1-KIT-ND 10 each of values 12Ω ~ 100Ω **$13.95**
RP2012TF-1-KIT-ND 10 each of values .10Ω ~ 10Ω **$29.95**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0402 / 0603 / 0805 / 1206 SMD 0.02%, 0.05%, 0.1%, 0.5% Thin Film Chip Resistors

Ultra Precision / Ultra Reliable — RG Series: 1/16, 1/10, 1/8 and 1/4W; RGH Series: 1/6 and 1/4W

Using the conventional properties of Thin Film Resistors, SSM has successfully achieved the environmental, resistance stability and sustained durability issues that are encountered while operating at higher temperatures. We call this "RG" and "RGH" Series (Resistor Great). Higher reliability parts are indispensable in the Automotive, Measurement and Medical Industries as quality requirements increase. Susumu provides a solution with the RG and RGH Series thin film chip resistors. The RG and RGH Series provide excellent TCR, Low Current Noise and Linearity specifications needed in high frequency applications. Tight tolerance allows for circuit simplification and the elimination of trim pots which leads to cost savings.

SPECIFICATIONS:

Performance: Inorganic protective coating assures high reliability, durability and protection against heat and moisture.

Operating Temperature: -55°C ~ 155°C (RG Series: 100% Power @ 85°C; RGH Series: 100% Power @ 70°C)

Thermal Derating: The RG Series is able to dissipate 100% of rated power @ 85°C; RGH Series @ 70°C. For applications operating above 85°C, the user must derate the resistors in accordance with the derating curve listed.

Applications: Suitable for automotive, measurement devices and any application where accuracy and reliability are required.

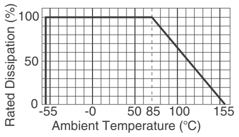

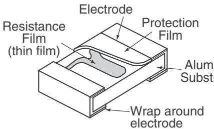

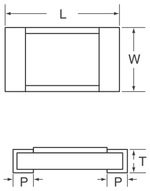

Current Noise Comparison
Thin Film vs. Thick Film
Why Thin Film Resistors have lower current noise specifications

Resistance material of Thin Film	Resistance material of Thick Film
Ni-Cr Alloy	Metal and Insulator Composite
Current flow is	Current flow is
Practically even	**Not even**

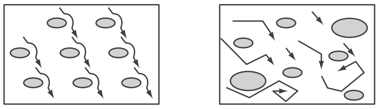

0.02%, 0402 Series, 1/16W — Resistor Values

100	120	150	220	330	510	680	1.0K	1.3K	1.8K	2.7K
110	130	180	270	390	560	820	1.2K	1.5K	2.2K	

0.02%, 0603 Series, 1/10W — Resistor Values

110	150	220	330	470	680	1.0K	1.5K	2.2K	3.3K	4.7K
120	180	270	390	560	820	1.2K	1.8K	2.7K	3.9K	

0.02%, 0805 Series, 1/8W — Resistor Values

100	180	240	330	470	680	820	1.1K	1.5K	2.2K	3.3K	4.7K	6.8K	10K
120	220	270	390	560	750	1.0K	1.2K	1.8K	2.7K	3.9K	5.6K	8.2K	

0.05%, 0603 Series, 1/10W — Resistor Values

47	91	180	360	680	1.3K	2.7K	5.1K	10.0K	20.0K	39.0K	82.0K	160K
51	100	200	390	750	1.5K	3.0K	5.6K	11.0K	22.0K	43.0K	91.0K	180K
56	110	220	430	820	1.6K	3.3K	6.2K	12.0K	24.0K	47.0K	100K	200K
62	120	240	470	910	1.8K	3.6K	6.8K	13.0K	27.0K	51.0K	110K	220K
68	130	270	510	1.0K	2.0K	3.9K	7.5K	15.0K	30.0K	56.0K	120K	240K
75	150	300	560	1.1K	2.2K	4.3K	8.2K	16.0K	33.0K	62.0K	130K	270K
82	160	330	620	1.2K	2.4K	4.7K	9.1K	18.0K	36.0K	75.0K	150K	

0.05%, 0805 Series, 1/8W and 0.1%, 0805 Series, 1/4W — Resistor Values

47	100	220	470	1.0K	2.2K	4.7K	10.0K	22.0K	47.0K	100K	220K	470K
51	110	240	510	1.1K	2.4K	5.1K	11.0K	24.0K	51.0K	110K	240K	
56	120	270	560	1.2K	2.7K	5.6K	12.0K	27.0K	56.0K	120K	270K	
62	130	300	620	1.3K	3.0K	6.2K	13.0K	30.0K	62.0K	130K	300K	
68	150	330	680	1.5K	3.3K	6.8K	15.0K	33.0K	68.0K	150K	330K	
75	160	360	750	1.6K	3.6K	7.5K	16.0K	36.0K	75.0K	160K	360K	
82	180	390	820	1.8K	3.9K	8.2K	18.0K	39.0K	82.0K	180K	390K	
91	200	430	910	2.0K	4.3K	9.1K	20.0K	43.0K	91.0K	200K	430K	

0.1%, 0402 Series, 1/16W — Resistor Values

47	130	261	549	910	2.0K	4.02K	7.5K	13.7K	28K	56K	97.6K
49.9	137	270	560	1.0K	2.1K	4.3K	7.68K	15K	30K	59K	100K
51	140	280	590	1.05K	2.2K	4.7K	8.06K	16K	31.6K	60.4K	
56	150	300	604	1.1K	2.4K	4.99K	8.2K	16.5K	33K	62K	
62	160	316	620	1.2K	2.49K	5.1K	8.87K	17.8K	36K	64.9K	
68	165	330	649	1.24K	2.61K	5.49K	9.1K	18K	37.4K	68K	
75	178	360	680	1.3K	2.7K	5.6K	9.76K	20K	39K	68.1K	
82	180	390	681	1.37K	2.8K	5.9K	10K	21K	40.2K	75K	
91	200	402	750	1.4K	3.0K	6.04K	10.5K	22K	43K	76.8K	
100	210	430	768	1.5K	3.16K	6.2K	11K	24K	47K	80.6K	
110	220	470	806	1.6K	3.3K	6.49K	12K	24.9K	49.9K	82K	
120	240	499	820	1.78K	3.6K	6.8K	12.4K	26.1K	51K	88.7K	
124	249	510	887	1.8K	3.9K	6.81K	13K	27K	54.9K	91K	

0.1%, 0603 Series, 1/6W — Resistor Values

47.0	100	220	470	1.0K	2.2K	4.7K	10.0K	22.0K	47.0K	100K	220K
51.0	110	240	510	1.1K	2.4K	5.1K	11.0K	24.0K	51.0K	110K	240K
56.0	120	270	560	1.2K	2.7K	5.6K	12.0K	27.0K	56.0K	120K	270K
62.0	130	300	620	1.3K	3.0K	6.2K	13.0K	30.0K	62.0K	130K	300K
68.0	150	330	680	1.5K	3.3K	6.8K	15.0K	33.0K	68.0K	150K	330K
75.0	160	360	750	1.6K	3.6K	7.5K	16.0K	36.0K	75.0K	160K	360K
82.0	180	390	820	1.8K	3.9K	8.2K	18.0K	39.0K	82.0K	180K	
91.0	200	430	910	2.0K	4.3K	9.1K	20.0K	43.0K	91.0K	200K	

0.1%, 0603 Series, 1/10W — Resistor Values

47.0	180	470	1.07K	1.82K	2.7K	4.12K	6.8K	10.2K	17.4K	32.4K	49.9K	84.5K	180K
51.0	200	475	1.1K	1.91K	2.8K	4.3K	6.81K	10.5K	18.0K	33.0K	51.0K	86.6K	200K
56.0	220	499	1.15K	2.0K	2.87K	4.32K	7.15K	10.7K	18.7K	33.2K	51.1K	90.9K	220K
62.0	221	510	1.18K	2.1K	3.0K	4.64K	7.5K	11.0K	20.0K	34.8K	53.6K	91.0K	221K
68.0	240	523	1.2K	2.15K	3.24K	4.7K	7.68K	11.3K	22.0K	35.7K	56.0K	93.1K	226K
75.0	249	560	1.21K	2.2K	3.3K	4.75K	7.87K	12.0K	22.1K	36.0K	56.2K	100K	232K
82.0	261	620	1.24K	2.21K	3.32K	4.87K	8.06K	12.1K	23.2K	38.3K	57.6K	102K	240K
91.0	270	604	1.3K	2.26K	3.4K	4.99K	8.2K	12.4K	24.0K	39.0K	60.4K	105K	249K
100	300	680	1.4K	2.32K	3.48K	5.1K	8.25K	12.7K	24.9K	39.2K	62.0K	110K	270K
110	301	750	1.5K	2.37K	3.57K	5.11K	8.45K	13.0K	25.5K	40.2K	68.0K	113K	300K
120	330	820	1.54K	2.4K	3.6K	5.6K	9.09K	13.7K	27.0K	41.2K	68.1K	120K	301K
130	360	825	1.58K	2.43K	3.65K	5.62K	9.1K	14.7K	27.4K	42.2K	73.2K	124K	309K
133	390	887	1.6K	2.49K	3.74K	5.9K	9.31K	15.0K	30.0K	43.0K	75.0K	127K	330K
150	402	910	1.65K	2.55K	3.9K	6.04K	9.53K	15.4K	30.1K	43.2K	76.8K	130K	332K
160	430	1.0K	1.69K	2.61K	3.92K	6.19K	9.76K	16.0K	30.9K	47.0K	80.6K	140K	
162	453	1.05K	1.8K	2.67K	4.02K	6.2K	10.0K	16.5K	31.6K	47.5K	82.0K	150K	

0.1%, 0805 Series, 1/8W — Resistor Values

47.0	180	475	1.05K	2.21K	3.9K	6.2K	11.3K	20.0K	33.0K	51.1K	91.0K	200K	620K
51.0	200	499	1.10K	2.32K	3.92K	6.8K	12.0K	21.0K	33.2K	53.6K	100K	220K	680K
56.0	220	510	1.2K	2.4K	4.02K	7.15K	12.1K	22K	34.8K	56.0K	102K	240K	750K
62.0	240	511	1.21K	2.49K	4.22K	7.5K	13.0K	22.1K	36.0K	56.2K	110K	249K	820K
68.0	249	560	1.3K	2.55K	4.3K	7.87K	13.3K	23.2K	38.3K	60.4K	115K	270K	910K
75.0	270	562	1.33K	2.61K	4.32K	8.2K	13.7K	24.0K	39.0K	62.0K	120K	280K	1.0M
82.0	300	620	1.5K	2.7K	4.64K	8.25K	14.3K	24.3K	39.2K	64.9K	124K	300K	
91.0	316	649	1.54K	2.74K	4.7K	8.66K	15.0K	24.9K	40.2K	68.0K	130K	301K	
100	330	680	1.6K	2.94K	4.75K	8.87K	15.4K	25.5K	43.0K	68.1K	140K	330K	
110	360	732	1.62K	3.0K	4.99K	9.09K	15.8K	26.7K	45.3K	75.0K	150K	360K	
120	374	750	1.69K	3.01K	5.1K	9.1K	16.0K	27.0K	46.4K	80.6K	160K	390K	
124	390	820	1.8K	3.09K	5.11K	9.53K	16.2K	27.4K	47.0K	82.0K	169K	430K	
130	392	845	1.82K	3.3K	5.49K	10.0K	16.5K	28.7K	47.5K	82.5K	180K	470K	
140	430	909	2.0K	3.32K	5.60K	10.2K	17.8K	30.0K	48.7K	86.6K	182K	499K	
150	453	1.0K	2.05K	3.57K	5.76K	10.5K	18.0K	30.1K	49.9K	88.7K	191K	510K	
160	470	1.02K	2.2K	3.6K	6.04K	11.0K	19.1K	31.6K	51.0K	90.9K	196K	560K	

NEW! 0.1%, 1206 Series, 1/4W — Resistor Values *NEW!*

47	110	249	560	1.2K	2.49K	4.75K	10.0K	20.0K	39.0K	80.6K	178K	390K	820K
49.9	120	270	590	1.3K	2.7K	4.99K	10.2K	21.0K	40.2K	82.0K	180K	402K	887K
51	130	280	604	1.33K	2.74K	5.1K	10.5K	22.0K	43.0K	88.7K	200K	430K	909K
56	140	300	620	1.40K	2.80K	5.6K	10.7K	22.1K	45.3K	90.9K	210K	453K	910K
59	150	301	649	1.5K	3.0K	5.90K	11.0K	24.0K	47.0K	91.0K	220K	470K	1.0M
60.4	154	330	680	1.54K	3.01K	6.04K	12.0K	24.9K	47.5K	100K	221K	499K	
62	160	332	750	1.6K	3.3K	6.2K	13.0K	27.0K	49.9K	105K	240K	510K	
68	169	360	806	1.69K	3.32K	6.49K	13.3K	27.4K	51.0K	110K	249K	560K	
75	178	390	820	1.78K	3.48K	6.8K	14.0K	28.0K	56.0K	120K	270K	590K	
80.6	180	402	887	1.8K	3.6K	7.5K	15.0K	30.0K	59.0K	130K	280K	604K	
82	200	430	910	2.0K	3.9K	8.06K	15.4K	30.1K	60.4K	140K	300K	620K	
88.7	210	453	1.0K	2.10K	4.02K	8.2K	16.0K	33.0K	62.0K	150K	301K	649K	
90.9	220	470	1.02K	2.2K	4.3K	8.87K	16.9K	33.2K	64.9K	154K	330K	680K	
91	221	499	1.05K	2.21K	4.53K	9.09K	17.8K	34.8K	68.0K	160K	332K	750K	
100	240	510	1.1K	2.4K	4.7K	9.1K	18.0K	36.0K	75.0K	169K	360K	806K	

0.5%, 0402 Series, 1/16W — Resistor Values

10.0	30.0	56.0	150	220	680	1.00K	1.60K	5.10K	15.0K	33.0K	100K
11.0	33.0	75.0	160	240	750	1.10K	2.00K	10.0K	20.0K	75.0K	
12.0	47.0	91.0	180	470	820	1.30K	2.20K	11.0K	22.0K	82.0K	
16.0	51.0	100	200	620	910	1.50K	2.70K	13.0K	30.0K	91.0K	

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm)				Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel		Susumu Part No.
				L	W	P	T		10	50	200		Qty.	Pricing	
RG Series															
0.02%, 0402, 1/16W	100 ~ 2.7K	±5 (V)	25	1.0	0.5	0.25	0.35	RG1005V(Value)PCT-ND	28.38	126.61	454.05	RG1005V(Value)PTR-ND	1,000	1135.00	RG1005V-xxx-P-T1
0.02%, 0603, 1/10W	100 ~ 4.7K	±5 (V)	75	1.6	0.8	0.3	0.4	RG1608V(Value)PCT-ND	28.38	126.61	454.05	RG1608V(Value)PTR-ND	1,000	1135.00	RG1608V-xxx-P-T1
0.02%, 0805, 1/8W	100 ~ 10K	±5 (V)	100	2.0	1.25	0.4	0.4	RG2012V(Value)PCT-ND	29.12	129.90	465.85	RG2012V(Value)PTR-ND	1,000	1165.00	RG2012V-xxx-P-T1
0.05%, 0603, 1/10W	47 ~ 270K	±10 (N)	75	1.6	0.8	0.3	0.4	RG16N(Value)WCT-ND	10.21	41.96	154.22	RG16N(Value)WTR-ND	1,000	306.00	RG1608N-xxx-W-T1

§ For complete part number, substitute corresponding value from the Resistance Value Chart.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0402 / 0603 / 0805 / 1206 SMD 0.02%, 0.05%, 0.1%, 0.5% Thin Film Chip Resistors

Ultra Precision / Ultra Reliable — RG Series: 1/16, 1/10, 1/8 and 1/4W; RGH Series: 1/6 and 1/4W *(Cont.)*

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm) L	W	P	T	Digi-Key Part No.§	Cut Tape Pricing 10	50	200	Digi-Key Part No.§	Tape and Reel Qty.	Pricing	Susumu Part No.
0.05%, 0805, 1/8W	47 ~ 470K	±10 (N)	100	2.0	1.25	0.4	0.4	RG20N(Value)WCT-ND	11.23	46.15	169.65	RG20N(Value)WTR-ND	1,000	337.00	RG2012N-xxx-W-T1
0.1%, 0402, 1/16W	47 ~ 100K	±25 (P)	25	1.0	0.5	0.25	0.35	RG10P(Value)BCT-ND	5.39	16.30	53.87	RG10P(Value)BTR-ND	5,000	77.00/M	RG1005P-xxx-B-T5
0.1%, 0603, 1/10W	47.0 ~ 332K	±25 (P)	75	1.6	0.8	0.3	0.4	RG16P(Value)BCT-ND	4.09	12.39	40.94	RG16P(Value)BTR-ND	5,000	58.00/M	RG1608P-xxx-B-T5
0.1%, 0805, 1/8W	47.0 ~ 1.0M	±25 (P)	100	2.0	1.25	0.4	0.4	RG20P(Value)BCT-ND	4.09	12.39	40.94	RG20P(Value)BTR-ND	5,000	58.00/M	RG2012P-xxx-B-T5
0.1%, 1206, 1/4W	47 ~ 1.0M	±25 (P)	150	3.2	1.6	0.5	0.4	RG32P(Value)BCT-ND ***NEW!***	6.12	21.77	68.04	RG32P(Value)BTR-ND ***NEW!***	1,000	127.00	RG3216P-xxx-B-T1
0.5%, 0402, 1/16W	10.0 ~ 33.0	±100 (R)	25	1.0	0.5	0.2	0.35	RG10R(Value)DCT-ND	4.17	11.91	38.27	RG10R(Value)DTR-ND	10,000	46.00/M	RG1005R-xxx-D-T10
0.5%, 0402, 1/16W	47.0 ~ 100K	±25 (P)	25	1.0	0.5	0.2	0.35	RG10P(Value)DCT-ND	2.02	5.54	16.87	RG10P(Value)DTR-ND	10,000	16.00/M	RG1005P-xxx-D-T10
RGH Series															
0.1%, 0603, 1/6W	47.0 ~ 360K	±25 (P)	100	1.6	0.8	0.3	0.4	RGH16P(Value)CT-ND	5.39	16.30	53.87	RGH16P(Value)TR-ND	5,000	77.00/M	RGH1608-2C-P-xxx-B
0.1%, 0805, 1/4W	47 ~ 470K	±25 (P)	125	2.0	1.25	0.4	0.4	RGH20P(Value)BCT-ND	6.46	19.56	64.64	RGH20P(Value)BTR-ND	5,000	92.00/M	RGH2012-2E-P-xxx-B

§ For complete part number, substitute corresponding value from the Resistance Value Chart.

0.05% and 0.5% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 0.05%, 0603, 1/16W, RG Series, SMD Resistor Kits

RG1608NW-1-KIT-ND	10 each of values 47Ω ~ 750Ω	**$175.95**
RG1608NW-2-KIT-ND	10 each of values 820Ω ~ 13.0KΩ	**$175.95**
RG1608NW-3-KIT-ND	10 each of values 15.0KΩ ~ 270KΩ	**$175.95**

Digi-Key® 0.05%, 0805, 1/10W, RG Series, SMD Resistor Kits

RG2012NW-1-KIT-ND	10 each of values 47.0Ω ~ 910Ω	**$199.95**
RG2012NW-2-KIT-ND	10 each of values 1.0KΩ ~ 20.0KΩ	**$199.95**
RG2012NW-3-KIT-ND	10 each of values 22.0KΩ ~ 470KΩ	**$199.95**

Digi-Key® 0.5%, 0402, 1/16W, RG Series, SMD Resistor Kits

SSM1005PD-KIT-ND	60 each of all 97 values	**$207.69**

▲ Please see the Digi-Key website for a complete list of the values included in the kits.

CPA Series High Power Thin Film Resistors
2512 Package — 16 Watt

These power resistors are designed to tolerate high current and establish a low thermal resistance interface with the circuit board. A lower thermal resistance more efficiently sinks heat to the board enabling a larger effective area for heat dissipation. As a result, the CPA Series exhibits much lower surface temperatures when compared to standard chip resistors of the same size with the same applied power.

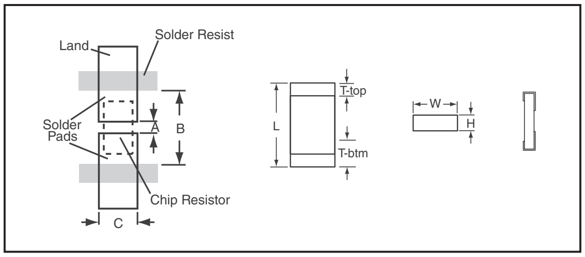

1%, 2512 Series, ±50, 16W — Resistor Values

3.3	5.6	10.0	18.0
3.9	6.8	12.0	
4.7	8.2	15.0	

1%, 2512 Series, ±25, 16W — Resistor Values

22.0	39.0	68.0	120
27.0	47.0	82.0	
33.0	56.0	100	

Note: Dependent on effective thermal conductivity/resistance of board construction/land design and size of board - greater power capability for board/land with lower thermal resistance. For relatively high thermal resistance mountings, the power resistors are capable of generating sufficient heat to reflow solder bonds without device damage.

Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm) L	W	H	T-top	T-btm	A	B	C	Digi-Key Part No.§	Cut Tape Pricing 10	50	200	Digi-Key Part No.§	Tape and Reel Pricing 1,000	Susumu Part No.
1%, 2512, 16W	3.3 ~ 18.0	±50	6.3	3.2	0.7	0.9	2.0	1.6	7.7	3.5	CPA25Q(Value)CT-ND	28.75	128.26	459.95	CPA25Q(Value)TR-ND	1150.00	CPA2512QxxxxFS-T10
1%, 2512, 16W	22.0 ~ 120	±25	6.3	3.2	0.7	0.9	2.0	1.6	7.7	3.5	CPA25E(Value)CT-ND	28.75	128.26	459.95	CPA25E(Value)TR-ND	1150.00	CPA2512ExxxxFS-T10

§ For complete part number, substitute corresponding value from the Resistance Value Chart.

KRL Series Foil Type Low Resistance Value Chip Resistors
Face Down Mounting — 1, 3 and 5 Watt

High Operating Temperature Range and Thermal EMF. Face down mounting for accurate sensing performance, 1% resistance tolerance, 50ppm TCR.

Fig. 1

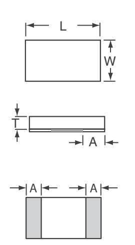

Fig. 2

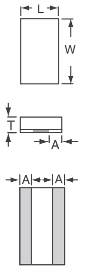

2%, 2512 Series, 1W — Resistor Values

.005	.006	.007	.008	.009

1%, 2512 Series, 1W — Resistor Values

.010	.015	.022	.033	.047	.056	.082
.012	.018	.027	.039	.050	.068	.100

5%, 3015 Series, 3W — Resistor Values

.001

2%, 3015 Series, 3W — Resistor Values

.002

1%, 3015 Series, 3W — Resistor Values

.003	.005	.007	.009	.012	.018	.027	.039	.050
.004	.006	.008	.010	.015	.022	.033	.047	

5%, 4320 Series, 5W — Resistor Values

.001

2%, 4320 Series, 5W — Resistor Values

.002

1%, 4320 Series, 5W — Resistor Values

.003	.005	.007	.009	.012	.018	.027	.039	.050
.004	.006	.008	.010	.015	.022	.033	.047	

Fig.	Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm) L	W	A	T	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Pricing 1,000	Susumu Part No.
1	2%, 2512, 1W	.005 ~ .007	±100	6.3	3.1	1.9	0.5	KRL32C(Value)CT-ND§	8.11	30.62	107.16	KRL32C(Value)TR-ND§	210.00	KRL3264-C-Rxxx-G-T1
	2%, 2512, 1W	.008 ~ .009	±100	6.3	3.1	1.0	0.5	KRL32C(Value)CT-ND§	8.11	30.62	107.16	KRL32C(Value)TR-ND§	210.00	KRL3264-C-Rxxx-G-T1
	1%, 2512, 1W	.010 ~ .100	±50	6.3	3.1	1.0	0.5	KRL32C(Value)CT-ND§	8.11	30.62	107.16	KRL32C(Value)TR-ND§	210.00	KRL3264-C-Rxxx-F-T1
2	5%, 3015, 3W	.001	±150	7.6	3.8	1.35	0.5	KRL76C.001CT-ND	16.33	70.31	249.48	KRL76C.001TR-ND	603.00	KRL7638-C-R001-J-T1
	2%, 3015, 3W	.002	±100	7.6	3.8	0.6	0.5	KRL76C.002CT-ND	16.33	70.31	249.48	KRL76C.002TR-ND	603.00	KRL7638-C-R002-G-T1
	1%, 3015, 3W	.003 ~ .050	±50	7.6	3.8	0.6	0.5	KRL76C(Value)CT-ND§	16.33	70.31	249.48	KRL76C(Value)TR-ND§	603.00	KRL7638-C-Rxxx-F-T1
	5%, 4320, 5W	.001	±150	11	5	1.8	0.5	KRL11C.001CT-ND	29.48	131.54	471.74	KRL11C.001TR-ND	1179.00	KRL11050-C-R001-J-T1
	2%, 4320, 5W	.002	±100	11	5	0.8	0.5	KRL11C.002CT-ND	29.48	131.54	471.74	KRL11C.002TR-ND	1179.00	KRL11050-C-R002-G-T1
	1%, 4320, 5W	.003 ~ .050	±50	11	5	0.8	0.5	KRL11C(Value)CT-ND§	29.48	131.54	471.74	KRL11C(Value)TR-ND§	1179.00	KRL11050-C-Rxxx-F-T1

§ For complete part number, substitute corresponding value from the Resistance Value Chart.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SUSUMU
THIN FILM TECHNOLOGY

Thin Film Low Resistance Chip Resistors

0402/0805/0815/0830/1206/2512 SMD, 1%, 2% and 5% – 1/8, 1/4, 1/2, 1 and 2 Watt

Digi-Reel®

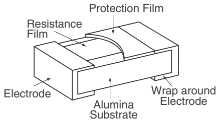

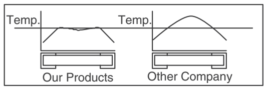

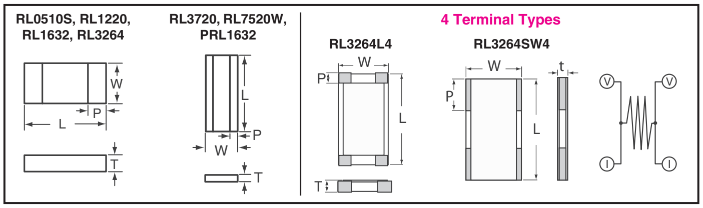

Susumu's Thin Film Low Resistance series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor. A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671.

1%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15◆	.22◆	1.0◆	1.5	2.2◆	3.3◆	4.7◆

2%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15	.22	1.0	2.2

1%, 0805 Series, 1/4 Watt — RL1220S Series Resistor Values

.10	.16	.27	.43	.62	1.00	1.6	2.70	4.3	6.8
.11	.18	.30	.47	.68	1.1	1.80	3.00	4.70	7.5
.12	.20	.33	.50	.75	1.2	2.0	3.30	5.1	8.2
.13	.22	.36	.51	.82	1.30	2.20	3.6	5.6	9.1
.15	.24	.39	.56	.91	1.50	2.4	3.9	6.2	10.0

2%, 0805 Series, 1/4 Watt — RL1220T/S Series Resistor Values

.022◆	.05◆	.082◆	.18	.30◆	.68	1.50	3.30◆
.033◆	.056◆	.10◆	.20◆	.33◆	.82◆	1.80	4.70
.039◆	.068◆	.12◆	.22◆	.36	1.00◆	2.20	10.0◆
.047◆	.075◆	.15	.24	.47◆	1.30	2.70	

5%, 0805 Series, 1/4 Watt — RL1220T Series Resistor Values

.010◆	.013◆	.018◆	.024◆	.030◆	.039◆	.05◆	.062◆	.082
.011◆	.015◆	.020◆	.025◆	.033◆	.043◆	.051◆	.068◆	.091◆
.012◆	.016◆	.022◆	.027◆	.036◆	.047◆	.056◆	.075◆	

1%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.022	.047	.10

1%, 0815 Series, 1 Watt — RL3720WT/S Series Resistor Values

.004	.012	.016	.03	.047	.10	.33	.56
.008	.013	.02	.033	.05	.15	.43	.68
.01	.015	.022	.036	.068	.22	.47	1.00

2%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.02	.022	.04	.047	.10

2%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.01◆	.015◆	.022◆	.030◆	.047◆
.011	.018◆	.025◆	.033◆	.05◆
.012◆	.02	.028◆	.04	.068◆

5%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.004	.005	.008

1%, 0830 Series, 2 Watt — RL7520WT/S Series Resistor Values

.01	.02	.050	.15	.33
.015	.047	.10	.22	.47

2%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.009◆	.012◆	.02	.033◆	.047◆
.01◆	.015◆	.022◆	.039◆	.068◆

5%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.001	.002	.003	.004	.005	.006	.009

1%, 1206 Series, 1/2 Watt — RL1632T/S/R Series Resistor Values

.027	.051	.10	.20	.39	.75	1.5	3.0
.030	.056	.11	.22	.43	.82	1.6	3.3
.033	.062	.12	.24	.47	.91	1.8	3.6
.036	.068	.13	.27	.51	1.0	2.0	3.9
.039	.075	.15	.30	.56	1.1	2.2	4.3
.043	.082	.16	.33	.62	1.2	2.4	4.7
.047	.091	.18	.36	.68	1.3	2.7	

2%, 1206 Series, 1/2 Watt — RL1632T Series Resistor Values

.010	.012	.015	.018	.022
.011	.013	.016	.020	.024

1%, 1206 Series, 1 Watt — PRL1632 Series Resistor Values

.005	.011	.020	.036	.056	.100
.006	.012	.022	.039	.062	
.007	.013	.024	.043	.068	
.008	.015	.027	.047	.075	
.009	.016	.030	.050	.082	
.010	.018	.033	.051	.091	

1%, 2512 Series, 1 Watt — RL3264T/S/R Series Resistor Values

.027	.047	.082	.15	.27	.47
.033	.056	.10	.18	.33	
.039	.068	.12	.22	.39	

2%, 2512 Series, 1 Watt — RL3264T Series Resistor Values

.010	.012	.015	.018	.022

1%, 2512 Series, 1 Watt — RL3264L4 Series Resistor Values

.003	.007	.015	.033	.056	.150	.390
.004	.008	.018	.039	.068	.180	.500
.005	.010	.022	.047	.082	.220	
.006	.012	.027	.050	.100	.270	

1%, 2512 Series, 2 Watt — RL3264SW4 Series Resistor Values

.001	.004	.006	.008	.010
.003	.005	.007	.009	

G

Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)				Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel		Susumu Part No.
			L	W	P	T		10	50	200		Qty.	Pricing	
1%, 0402, 1/8W	.15 ~ 4.7	0~200	1.00	0.50	0.20	0.35	RL05S(Value)FCT-ND	4.20	12.72	42.02	RL05S(Value)FTR-ND	10,000	58.00/M	RL0510S-xxx-F
2%, 0402, 1/8W	.15 ~ 2.2	0~200	1.00	0.50	0.20	0.35	RL05S(Value)GCT-ND	3.99	12.06	39.86	RL05S(Value)GTR-ND	10,000	55.00/M	RL0510S-xxx-G
1%, 0805, 1/4W	.10 ~ 10.0	0~200	2.00	1.25	0.40	0.40	RL12S(Value)FCT-ND◆	3.57	10.42	32.14	RL12S(Value)FTR-ND◆	5,000	36.00/M	RL1220S-xxx-F
2%, 0805, 1/4W	.022 ~ .082	0~350	2.00	1.25	0.40	0.40	RL12T(Value)GCT-ND	4.86	13.89	44.65	RL12T(Value)GTR-ND	5,000	57.00/M	RL1220T-xxx-G
	.10 ~ 10.0	0~200	2.00	1.25	0.40	0.40	RL12S(Value)GCT-ND	3.57	10.42	32.14	RL12S(Value)GTR-ND	5,000	36.00/M	RL1220S-xxx-G
5%, 0805, 1/4W	.010 ~ .091	0~350	2.00	1.25	0.40	0.40	RL12T(Value)JCT-ND	3.61	10.32	33.17	RL12T(Value)JTR-ND	5,000	42.00/M	RL1220T-xxx-J
1%, 0815, 1/2W	.018 ~ .047	0~350	3.75	2.00	0.40	0.40	RL37T(Value)FCT-ND◆	6.46	23.58	77.70	RL37T(Value)FTR-ND◆	4,000	144.00/M	RL3720T-xxx-F
	.10	0~200	3.75	2.00	0.40	0.40	RL37S.10FCT-ND◆	6.46	23.58	77.70	RL37S.10FTR-ND◆	4,000	144.00/M	RL3720S-xxx-F
1%, 0815, 1W	.004 ~ .068	0~350	3.75	2.00	0.40	0.45	RL37WT(Value)FCT-ND◆	7.57	28.58	100.02	RL37WT(Value)FTR-ND◆	4,000	190.00/M	RL3720WT-xxx-F
	.10 ~ 1.00	0~200	3.75	2.00	0.40	0.45	RL37WS(Value)FCT-ND◆	7.57	28.58	100.02	RL37WS(Value)FTR-ND◆	4,000	190.00/M	RL3720WS-xxx-F
2%, 0815, 1/2W	.018 ~ .047	0~350	3.75	2.00	0.40	0.40	RL37T(Value)GCT-ND	6.49	23.71	78.14	RL37T(Value)GTR-ND	4,000	144.00/M	RL3720T-xxx-G
2%, 0815, 1W	.01 ~ .068	0~350	3.75	2.00	0.40	0.45	RL37WT(Value)GCT-ND	6.97	26.31	92.08	RL37WT(Value)GTR-ND	4,000	175.00/M	RL3720WT-xxx-G
5%, 0815, 1W	.004 ~ .008	0~350	3.75	2.00	0.40	0.45	RL37WT(Value)JCT-ND◆	8.41	31.75	111.13	RL37WT(Value)JTR-ND◆	4,000	211.00/M	RL3720WT-xxx-J
1%, 0830, 2W	.01 ~ .050	0~350	7.50	2.00	0.40	0.45	RL75WT(Value)FCT-ND◆	8.20	30.96	108.36	RL75WT(Value)FTR-ND◆	4,000	206.00/M	RL7520WT-xxx-F
	.10 ~ .47	0~200	7.50	2.00	0.40	0.45	RL75WS(Value)FCT-ND◆	8.20	30.96	108.36	RL75WS(Value)FTR-ND◆	4,000	206.00/M	RL7520WS-xxx-F
2%, 0830, 2W	.009 ~ .068	0~350	7.50	2.00	0.40	0.45	RL75WT(Value)GCT-ND	7.87	29.71	103.99	RL75WT(Value)GTR-ND	4,000	198.00/M	RL7520WT-xxx-G
5%, 0830, 2W	.001 ~ .009	0~350	7.50	2.00	0.40	0.45	RL75WT(Value)JCT-ND◆	9.02	34.02	119.07	RL75WT(Value)JTR-ND◆	4,000	198.00/M	RL7520WT-xxx-J
1%, 1206, 1/2W	.027 ~ .030	0~350	3.20	1.60	1.00	0.50	RL16T(Value)FCT-ND◆	6.12	21.77	68.04	RL16T(Value)FTR-ND◆	5,000	121.00/M	RL1632T-xxx-F
	.033 ~ .051	0~200	3.20	1.60	1.00	0.50	RL16S(Value)FCT-ND◆	6.12	21.77	68.04	RL16S(Value)FTR-ND◆	5,000	121.00/M	RL1632S-xxx-F
	.056 ~ 4.7	±100	3.20	1.60	1.00	0.50	RL16R(Value)FCT-ND◆	6.12	21.77	68.04	RL16R(Value)FTR-ND◆	5,000	121.00/M	RL1632R-xxx-F
2%, 1206, 1/2W	.010 ~ .024	0~350	3.20	1.60	1.00	0.50	RL16T(Value)GCT-ND◆	6.12	21.77	68.04	RL16T(Value)GTR-ND◆	5,000	121.00/M	RL1632T-xxx-G
1%, 1206, 1W	.005 ~ .009 .010 ~ .018 .020 ~ .051 .056 ~ .100	0~350 0~200 ±100 ±50	3.20	1.60	0.45	0.50	PRL1632(Value)FCT-ND◆	8.11	30.62	—	PRL1632(Value)FTR-ND◆	1,000	210.00	PRL1632-xxx-F-T1
1%, 2512, 1W	.027	0~350	6.40	3.20	2.00	0.50	RL32T.027FCT-ND◆	10.21	41.96	154.22	RL32T.027FTR-ND◆	5,000	292.00/M	RL3264T-xxx-F
	.033 ~ .047	0~200	6.40	3.20	2.00	0.50	RL32S(Value)FCT-ND◆	10.21	41.96	154.22	RL32S(Value)FTR-ND◆	5,000	292.00/M	RL3264S-xxx-F
	.068 ~ .47	±100	6.40	3.20	2.00	0.50	RL32R(Value)FCT-ND◆	10.21	41.96	154.22	RL32R(Value)FTR-ND◆	5,000	292.00/M	RL3264R-xxx-F
2%, 2512, 1W	.010 ~ .022	0~350	6.40	3.20	2.00	0.50	RL32T(Value)GCT-ND◆	10.21	41.96	154.22	RL32T(Value)GTR-ND◆	5,000	292.00/M	RL3264T-xxx-G
1%, 2512, 1W (4 Terminal Type)	.003 ~ .005	±100	6.40	3.20	0.60	0.50	RL32L4(Value)FCT-ND◆	18.43	82.22	294.84	RL32L4(Value)FTR-ND◆	5,000	714.00/M	RL3264L4-Rxxx-F
	.006 ~ .500	±50	6.40	3.20	0.60	0.50	RL32L4(Value)FCT-ND◆	18.43	82.22	294.84	RL32L4(Value)FTR-ND◆	5,000	714.00/M	RL3264L4-Rxxx-F
1%, 2512, 2W (4 Terminal Type)	.001	±300	6.40	3.20	2.70	0.50	RL32SW4.001FCT-ND◆	22.11	98.66	353.81	RL32SW4.001FTR-ND◆	5,000	857.00/M	RL3264SW4-001M-F-T5
	.003 ~ .004	±200	6.40	3.20	2.70	0.50	RL32SW4(Value)FCT-ND◆	22.11	98.66	353.81	RL32SW4(Value)FTR-ND◆	5,000	857.00/M	RL3264SW4-xxxM-F-T5
	.005 ~ .010	±100	6.40	3.20	2.70	0.50	RL32SW4(Value)FCT-ND◆	22.11	98.66	353.81	RL32SW4(Value)FTR-ND◆	5,000	857.00/M	RL3264SW4-xxxM-F-T5

§ For complete part number, substitute corresponding value from the Resistance Value Chart ◆ *RoHS Compliant*

1%, 2% and 5% SMD Resistors — Digi-Key® Assortment Kits

RoHS COMPLIANT

Digi-Key® 1%, 0805, 1/4W, RL Series, SMD Chip Resistor Kit
RL1220SF-1-KIT-ND 10 each of values .10Ω ~ 10.0Ω **$19.95**

Digi-Key® 2%, 0805, 1/4W, RL Series, SMD Chip Resistor Kit
RL1220SG-1-KIT-ND 10 each of values .022Ω ~ 10.0Ω **$15.95**

Digi-Key® 1%, 2% and 5%, 0805, 1/4W, RL Series, SMD Thin Film Resistor Kit
SSM1220-KIT-ND 40 each of 31 values ▲ **$123.78**

Digi-Key® 1%, 0815, 1W, RL Series, SMD Thin Film Resistor Kit
SSM3720W-KIT-ND 30 each of 20 values ▲ **$102.80**

Digi-Key® 1%, 2% and 5%, 0830, 2W, RL Series, SMD Thin Film Resistor Kit
SSM7520W-KIT-ND 30 each of 16 values ▲ **$144.76**

▲ Please see Digi-Key website for a complete list of values included in the kits.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SSM SUSUMU
THIN FILM TECHNOLOGY

0201 / 0402 / 0603 / 0805 SMD .1% and .5% Thin Film Chip Resistors – High Precision RR Series - 1/10, 1/16, 1/20 Watt

Susumu has been manufacturing thin film resistors since 1986 and is the primary thin film supplier in the world. Susumu's Number One status in thin film resistors can be attributed to the sales of the RR Series thin film chip resistors.

The RR Series offers excellent TCR tolerances, Linearity specifications and low current noise.

These specifications contribute to circuit simplification and cost savings, as they eliminate the need for trimmer pots in the circuit for adjustment.

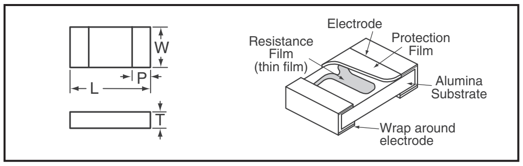

Current Noise Comparison
RR Series Thin Film vs. Thick Film
Why RR Series has lower current noise specifications

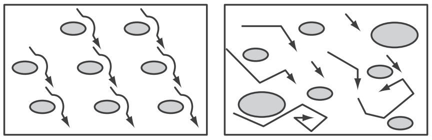

Resistance material of RR Series
Ni-Cr Alloy
Current flow is
Practically even

Resistance material of Thick Film
Metal and Insulator Composite
Current flow is
Not even

.1%, 1/16 Watt - Series 0603 — Resistor Values

9.1K	16.0K◆	47.5K◆
11.0K◆	30.9K	127K◆

.1%, 1/10 Watt - Series 0805 — Resistor Values

1.69K	3.09K	24.0K
2.94K	7.15K	75.0K

.5%, 1/20 Watt - Series 0201 — Resistor Values

47	100	130	470	3.3K	4.3K	5.6K	8.2K
82	120	220	560	3.9K	4.7K	6.8K	

.5%, 1/16 Watt - Series 0402 — Resistor Values

10◆	39◆	75◆	160◆	270◆	430	750◆	1.3K◆	2.1K◆‡	3.16K◆‡	4.53K◆‡	5.76K◆	8.45K◆‡	12.1K◆‡	18.0K◆	24.9K◆‡	36.5K◆‡	56.0K◆	82.0K◆
15◆	47◆	82◆	169◆‡	287◆‡	470◆	820◆	1.5K◆	2.2K◆	3.3K◆	4.7K◆	6.04K◆‡	9.09K◆‡	12.4K◆‡	18.2K◆‡	25.5K◆‡	39.0K◆	56.2K◆‡	86.6K◆‡
20◆	49.9◆	100◆	180◆	300◆	499◆‡	825◆‡	1.6K	2.32K◆‡	3.32K◆‡	4.99K◆‡	6.2K◆	9.1K◆	13.0K◆	18.7K◆‡	27.0K◆	40.2K◆‡	57.6K◆‡	90.9K◆‡
22◆	51◆	110◆	200◆	330◆	510◆	910	1.62K◆‡	2.4K◆	3.6K◆	5.1K◆	6.49K◆‡	10.0K◆	13.7K◆‡	20.0K◆	28.7K◆‡	43.0K◆	59K◆‡	100K◆
24◆	56◆	120◆	220◆	332◆‡	560◆	1.0K◆	1.8K◆	2.49K◆‡	3.74K◆‡	5.36K◆‡	6.8K◆	10.5K◆‡	14.7K◆‡	21K◆‡	30.0K◆	45.3K◆‡	62.0K◆	
27◆	56.2◆	130◆	240◆	360◆	620◆	1.1K◆	1.87K◆‡	2.55K◆‡	3.9K◆	5.49K◆‡	7.5K◆	10.7K◆‡	15.0K◆	22.0K◆	33.0K◆	47.0K◆	64.9K◆‡	
30◆	62	137◆‡	249◆‡	390◆	649◆‡	1.2K◆	1.96K◆‡	2.7K◆	4.02K◆‡	5.6K◆	8.06K◆‡	11.3K◆	15.4K◆‡	23.2K◆‡	33.2K◆‡	49.9K◆‡	68.0K	
33◆	68◆	150◆	255◆‡	402◆‡	680◆	1.21K◆‡	2.0K◆	3.0K◆	4.3K◆	5.62K◆‡	8.2K◆	12.0K	16.0K	24.0K	36.0K	51.0K◆	75.0K◆	

.5%, 1/16 Watt - Series 0603 — Resistor Values

10◆	24◆	47◆	100◆	215◆	357◆	590◆	976◆	1.5K◆	2.32K◆	3.3K◆	4.64K◆	6.2K◆	8.87K◆	12.7K◆	18.2K◆	27.0K◆	37.4K◆	56.2K◆	91.0K◆	180K◆	332K◆
11◆	24.9◆	47.5	110◆	220◆	360◆	604◆	1.0K◆	1.54K◆	2.37K◆	3.32K◆	4.7K◆	6.34K◆	9.09K◆	13.0K◆	18.7K◆	27.4K◆	39.0K◆	59.0K◆	100K◆	200K◆	357K◆
11.8	27◆	49.9◆	120◆	221◆	365◆	619	1.02K◆	1.6K◆	2.4K◆	3.4K◆	4.75K◆	6.49K◆	9.1K◆	13.3K◆	19.1K◆	28.0K◆	40.2K◆	60.4K◆	102K◆	210K◆	360K◆
12◆	30◆	51◆	121	226◆	390◆	620◆	1.07K	1.62K◆	2.43K◆	3.48K◆	4.87K◆	6.65K◆	9.31K◆	13.7K◆	19.6K◆	28.7K◆	43.0K◆	61.9K◆	107K	220K◆	
12.1◆	33◆	51.1◆	124◆	232◆	392◆	634◆	1.1K◆	1.69K◆	2.49K◆	3.57K◆	4.99K◆	6.8K◆	9.53K◆	14.0K◆	20.0K◆	29.4K◆	43.2K◆	62.0K◆	110K◆	221K◆	
12.4◆	33.2◆	54.9◆	130◆	240◆	402◆	649◆	1.13K◆	1.78K◆	2.55K	3.6K◆	5.1K◆	6.81K◆	9.76K◆	14.3K◆	20.5K◆	30.0K◆	44.2K◆	66.5K◆	113K◆	240K◆	
13◆	34	56◆	133◆	267◆	422◆	680◆	1.15K◆	1.8K◆	2.61K◆	3.65K◆	5.11K◆	6.98K◆	10.0K◆	14.7K◆	21.0K◆	30.1K◆	47.0K◆	68.0K◆	118K◆	243K◆	
15◆	35.7◆	56.2◆	147	270◆	430◆	681◆	1.18K◆	1.82K◆	2.67K◆	3.74K◆	5.23K◆	7.15K◆	10.2K◆	15.0K◆	21.5K◆	30.9K◆	47.5K◆	68.1K◆	120K◆	249K◆	
16◆	36◆	60.4◆	150◆	274◆	432	698◆	1.2K◆	1.87K◆	2.7K◆	3.9K◆	5.36K◆	7.32K◆	10.5K◆	15.8K◆	22.0K◆	31.6K◆	48.7K◆	69.8K◆	124K◆	255K◆	
16.9◆	37.4◆	62◆	154◆	280◆	464◆	715	1.21K◆	1.96K◆	2.74K◆	3.92K◆	5.49K◆	7.5K◆	10.7K◆	16.0K◆	22.1K◆	32.4K◆	49.9K◆	73.2K◆	130K◆	270K◆	
18◆	38.3	68◆	160◆	300◆	470◆	750◆	1.24K◆	2.0K◆	2.80K◆	4.02K◆	5.6K◆	7.87K◆	11.0K◆	16.2K◆	22.6K◆	33.0K◆	51.0K◆	75.0K◆	140K◆	284K◆	
20◆	39◆	68.1◆	165◆	301◆	475◆	806◆	1.27K◆	2.1K◆	2.87K	4.12K◆	5.62K	8.06K◆	11.3K◆	16.5K◆	23.2K◆	33.2K◆	51.1K◆	78.7K	147K◆	300K◆	
20.5◆	39.2	75◆	180◆	330◆	499◆	820◆	1.3K◆	2.15K◆	3.0K◆	4.22K◆	5.76K◆	8.2K◆	11.5K	16.9K◆	24.0K◆	34.0K◆	52.3K	80.6K◆	150K◆	301K◆	
21.5◆	40.2◆	82◆	182	332◆	510◆	825◆	1.37K	2.2K◆	3.01K◆	4.3K◆	5.9K◆	8.25K◆	12.0K◆	17.4K	24.3K◆	34.8K	53.6K◆	82.0K◆	160K◆	309K◆	
22◆	41.2◆	82.5◆	200◆	340◆	560◆	845	1.4K◆	2.21K◆	3.09K◆	4.42K◆	6.04K◆	8.45K◆	12.1K◆	17.8K◆	24.9K◆	36.0K◆	54.9K◆	84.5K◆	165K◆	324K◆	
22.1◆	43◆	91◆	210◆	348◆	562◆	910◆	1.47K◆	2.26K◆	3.16K	4.53K◆	6.19K◆	8.66K◆	12.4K◆	18.0K◆	26.1K◆	36.5K◆	56.0K◆	90.9K◆	178K◆	330K◆	

.5%, 1/10 Watt - Series 0805 — Resistor Values

10◆	20.5◆	36◆	75◆	143◆	249◆	470◆	976◆	1.65K◆	2.4K◆	3.6K◆	5.1K◆	7.87K◆	12.0K◆	17.4K◆	27.4K◆	41.2K◆	62.0K◆	100K◆	200K◆	374K◆	820K◆
11◆	21.5◆	39◆	80.6◆	147◆	255◆	475◆	1.0K◆	1.69K◆	2.43K◆	3.65K◆	5.11K◆	8.06K◆	12.1K◆	18.0K◆	28.7K◆	43.0K◆	64.9K	102K◆	205K◆	390K◆	887K◆
11.5◆	22◆	40.2◆	82◆	150◆	267◆	499◆	1.1K◆	1.78K◆	2.49K◆	3.74K◆	5.36K◆	8.2K◆	12.4K◆	18.7K	30.0K◆	44.2K◆	66.5K◆	105K◆	210K◆	402K◆	910K◆
12◆	22.6	41.2◆	82.5◆	160◆	270◆	510◆	1.13K◆	1.8K◆	2.55K◆	3.83K◆	5.49K◆	8.25K◆	12.7K◆	19.1K◆	30.1K◆	45.3K◆	68.0K◆	110K◆	220K◆	412K◆	931K◆
12.4◆	24◆	43◆	86.6◆	162◆	280◆	523◆	1.15K◆	1.82K◆	2.61K◆	3.9K◆	5.6K◆	8.45K◆	13.0K◆	19.6K◆	30.9K◆	47.0K◆	68.1K◆	115K	226K◆	430K◆	1.0M◆
13◆	24.9◆	47◆	88.7◆	165◆	287◆	549◆	1.18K◆	1.87K◆	2.7K◆	3.92K◆	5.62K◆	8.87K◆	13.3K◆	20.0K◆	31.6K◆	47.5K◆	71.5K◆	118K◆	232K◆	470K◆	
13.3	25.5◆	47.5	91◆	174◆	300◆	560◆	1.2K◆	1.91K◆	2.8K◆	4.02K◆	5.76K◆	9.09K	13.7K◆	21.0K◆	32.4K◆	48.7K	73.2K◆	120K◆	240K◆	475K◆	
14.3◆	27◆	49.9◆	100◆	178◆	309◆	576◆	1.21K◆	1.96K◆	2.94K◆	4.12K◆	5.9K◆	9.1K◆	14.0K◆	21.5K◆	33.0K◆	49.9K◆	75.0K◆	121K◆	249K◆	499K◆	
14.7◆	27.4◆	51◆	107◆	180◆	316◆	590◆	1.27K◆	2.0K◆	3.0K◆	4.3K	6.04K◆	9.53K◆	14.3K◆	22.1K◆	33.2K◆	51.0K◆	80.6K◆	130K◆	255K◆	510K◆	
15◆	29.4◆	54.9◆	110◆	182◆	330◆	604◆	1.3K◆	2.05K◆	3.01K◆	4.32K◆	6.19K◆	9.76K◆	14.7K◆	23.2K◆	34.8K◆	51.1K◆	82.0K◆	140K◆	270K◆	549K◆	
16◆	30◆	56◆	120◆	200◆	332◆	620◆	1.33K◆	2.1K◆	3.09K◆	4.42K◆	6.2K◆	10.0K◆	15.0K◆	23.7K◆	35.7K◆	53.6K◆	82.5K◆	143K◆	280K◆	560K◆	
16.5◆	30.1	56.2◆	121◆	205◆	360◆	649◆	1.37K◆	2.15K◆	3.16K◆	4.53K◆	6.65K◆	10.2K◆	15.4K	24.0K◆	36.0K◆	54.9K◆	84.5K◆	150K◆	300K◆	604K◆	
17.4◆	30.9◆	60.4◆	124◆	215◆	365◆	680◆	1.40K◆	2.2K◆	3.24K◆	4.64K◆	6.8K◆	10.5K◆	15.8K	24.3K◆	36.5K◆	56.0K◆	86.6K◆	160K◆	301K◆	620K◆	
17.8◆	32.4	61.9	127◆	220◆	390◆	681◆	1.5K◆	2.21K◆	3.3K◆	4.7K◆	6.81K◆	11.0K◆	16.0K◆	24.9K◆	37.4K◆	56.2K◆	88.7K	178K◆	330K◆	665K◆	
18◆	33◆	62	130◆	226	392◆	820◆	1.54K◆	2.26K◆	3.32K◆	4.75K◆	6.98K◆	11.3K◆	16.2K	25.5K◆	39.0K◆	57.6K◆	90.9K◆	180K◆	357K◆	680K◆	
19.6◆	34.8◆	68◆	133◆	232◆	412◆	887◆	1.58K◆	2.32K◆	3.4K◆	4.87K◆	7.15K◆	11.5K◆	16.5K◆	26.1K	39.2K◆	59.0K◆	91.0K◆	187K◆	360K◆	715K◆	
20◆	35.7	69.8◆	140◆	240◆	430◆	910◆	1.6K◆	2.37K◆	3.48K◆	4.99K◆	7.5K◆	11.8K◆	16.9K◆	27.0K◆	40.2K◆	60.4K◆	95.3K◆	191K	365K◆	750K◆	

◆ ***RoHS Compliant***   ‡ Not available in assortment kits

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm)				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel		Susumu Part No.
				L	W	P	T		10	50	200		Qty.	Pricing	
.1%, 0603, 1/16W	9.1K ~ 127K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)BCT-ND	3.90	11.80	38.99	—	—	—	RR0816P-xxx-B
.1%, 0805, 1/10W	1.69K ~ 86.6K	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)BCT-ND◆	3.90	11.80	38.99	—	—	—	RR1220P-xxx-B
.5%, 0201, 1/20W	47 ~ 8.2K	±25	15	0.06	0.30	0.12	0.23	RR03P(Value)DCT-ND◆	3.06	8.93	27.55	RR03P(Value)DTR-ND◆	5,000	31.00/M	RR0306P-xxx-D
.5%, 0402, 1/16W	10 ~ 82	±100	25	1.00	0.50	0.20	0.35	RR05R(Value)DCT-ND	1.12	3.07	9.35	RR05R(Value)DTR-ND	10,000	9.00/M	RR0510R-xxx-D
	100 ~ 100K	±25	25	1.00	0.50	0.20	0.35	RR05P(Value)DCT-ND	1.12	3.07	9.35	RR05P(Value)DTR-ND	10,000	9.00/M	RR0510P-xxxx-D
.5%, 0603, 1/16W	10 ~ 91	±50	75	1.60	0.80	0.30	0.40	RR08Q(Value)DCT-ND	1.48	4.04	12.30	RR08Q(Value)DTR-ND	5,000	13.00/M	RR0816Q-xxx-D-xxx
	100 ~ 360K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)DCT-ND	1.48	4.04	12.30	RR08P(Value)DTR-ND	5,000	13.00/M	RR0816P-xxxx-D-xxx
.5%, 0805, 1/10W	10 ~ 91	±50	100	2.00	1.25	0.40	0.40	RR12Q(Value)DCT-ND	1.48	4.04	12.30	RR12Q(Value)DTR-ND	5,000	13.00/M	RR1220Q-xxx-D-xx
	100 ~ 1.0M	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)DCT-ND	1.48	4.04	12.30	RR12P(Value)DTR-ND	5,000	13.00/M	RR1220P-xxxx-D-xx

† For complete part number, substitute corresponding value from the Resistor Value Chart.   ◆ ***RoHS Compliant***

.5% SMD Resistors Digi-Key® Assortment Kits

Digi-Key® .5%, 0201, 1/20W, RR Series, SMD Resistor Kits

RR0306PD-1-KIT-ND	10 each of values 47Ω ~ 8.2KΩ	**$9.95**

Digi-Key® .5%, 0402, 1/16W, RR Series, SMD Resistor Kits

RR0510RD-1-KIT-ND	10 each of values 10.0Ω ~ 82.0Ω..........	**$4.95**
RR0510PD-1-KIT-ND	10 each of values 100Ω ~ 4.3KΩ..........	**$9.95**
RR0510PD-2-KIT-ND	10 each of values 4.7KΩ ~ 100KΩ	**$7.95**

▲ Please see Digi-Key website for a complete list of values included in kit.

Digi-Key® .5%, 0603, 1/16W, RR Series, SMD Resistor Kits

RR0816QD-1-KIT-ND	10 each of values 10Ω ~ 91.0Ω...........	**$13.95**
RR0816PD-1-KIT-ND	10 each of values 100Ω ~ 806Ω..........	**$15.95**
RR0816PD-2-KIT-ND	10 each of values 820Ω ~ 4.75KΩ........	**$15.95**
RR0816PD-3-KIT-ND	10 each of values 4.87KΩ ~ 18.0KΩ	**$15.95**
RR0816PD-4-KIT-ND	10 each of values 18.2KΩ ~ 68.1KΩ	**$15.95**
RR0816PD-5-KIT-ND	10 each of values 69.8KΩ ~ 360KΩ......	**$12.95**
SSM0816PD-KIT-ND	60 each of 125 values ▲................	**$207.69**

Digi-Key® .5%, 0805, 1/10W, RR Series, SMD Resistor Kits

RR1220QD-1-KIT-ND	10 each of values 10Ω ~ 91Ω.............	**$12.95**
RR1220PD-1-KIT-ND	10 each of values 100Ω ~ 1.6KΩ.........	**$15.95**
RR1220PD-2-KIT-ND	10 each of values 1.65KΩ ~ 5.9KΩ.......	**$15.95**
RR1220PD-3-KIT-ND	10 each of values 6.04KΩ ~ 24.3KΩ	**$15.95**
RR1220PD-4-KIT-ND	10 each of values 24.9KΩ ~ 110KΩ......	**$15.95**
RR1220PD-5-KIT-ND	10 each of values 115KΩ ~ 1.0MΩ........	**$9.95**
SSM1220PD-KIT-ND	60 each of 161 values ▲................	**$207.69**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SSM SUSUMU THIN FILM TECHNOLOGY — SMD Power Dividers — PS Series

Operating Temperature: -40°C ~ 125°C
Excellent high frequency characteristics from DC ~ 20GHz

Type	Dimensions - mm						
	L	W	a	b	C	D	T
PS1608 (G)	2.0	1.2	0.45	0.35	0.35	0.90	0.4
PS2012 (G)	2.4	1.65	0.45	0.35	0.35	1.30	0.4
PS3216 (G)	3.6	2.0	0.35	0.40	1.075	1.05	0.4

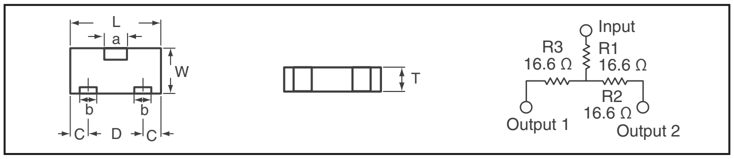

Type	Frequency Range (GHz)	Distribution Deviation (dB)	Input or Output VSWR		Attenuation Tolerance		Input Power (mW)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 5,000	Susumu Part No.
			1.3 or Less	1.5 or Less	6 ±0.5dB	6 ±1.0dB	Typ.	Max.		10	100	500			
PS1608	DC ~ 20	Within 0.3	DC ~ <10GHz	10 ~ 20GHz	DC ~ <10GHz	10 ~ 20GHz	100	200	408-1093-1-ND	31.33	257.99	1013.51	408-1093-2-ND	1105.65/M	PS1608GT2-R50-T5
PS2012	DC ~ 17.5	Within 0.3	DC ~ <10GHz	10 ~ 17.5GHz	DC ~ <10GHz	10 ~ 17.5GHz	125	250	408-1094-1-ND	53.01	436.59	1715.18	408-1094-2-ND	1871.10/M	PS2012GT2-R50-T5
PS3216	DC ~ 15	Within 0.3	DC ~ <10GHz	10 ~ 15GHz	DC ~ <10GHz	10 ~ 15GHz	250	500	408-1095-1-ND	81.93	674.73	2650.73	408-1095-2-ND	2891.70/M	PS3216GT2-R50-T5

VISHAY Thin Film — High Frequency Surface Mount Thin Film Chip Resistors (up to 20GHz) — FC Series

FC Series Chip Resistors are designed with low internal reactance. They function as almost pure resistors on a very high range of frequencies. The specialized laser edge trimming allows for precision tolerances of 0.1%.

FEATURES: • Excellent frequency response up to 20GHz • Edge-trimmed block resistors • Small internal reactance (<10mΩ) • Low TCR of ±25ppm/°C

APPLICATIONS: • Low-noise amplifiers • High-speed routers • Attenuation circuitry • High-frequency line termination

SPECIFICATIONS: • TCR: 25ppm/°C • Tolerance: ±0.1% • Stability: 500ppm; 2,000h @70°C • Operating Temperature Range: -55°C ~ 125°C • Resistive Element: Passivated Nichrome • Substrate Material: High Purity Alumina (99.6%)

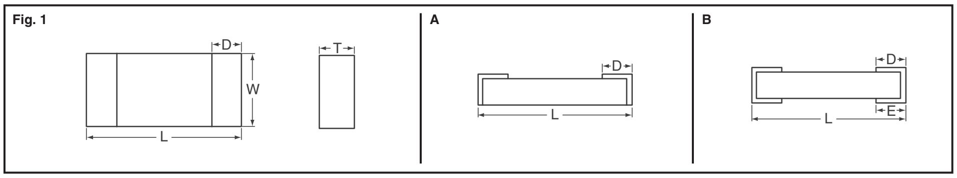

Case Size	Dimensions – mm				
	Length (L)	Width (W)	Thickness (T)	Top Pad (D)	Bottom Pad (Wraparound Only) (E)
0402	1.016	0.508	0.381	0.305	0.381
0603	1.626	0.813	0.381	0.305	0.381

Fig.	Description	Resistance (Ω)	Rated Voltage (V)	Rated Power @70°C (Max.)	Termination	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Thin Film Part No.
							1	25	100		Qty.	Pricing	
1A	0.1%, 0402	50	30	50mW	Top Sided Lead (Flip Chip)	FC0402-50BFCT-ND	2.94	2.28	2.10	FC0402-50BFTR-ND	1,000	910.00	FC0402E50R0BTBST1
1B	0.1%, 0402	50	30	50mW	Wraparound Lead	FC0402-50BWCT-ND	2.94	2.28	2.10	FC0402-50BWTR-ND	1,000	910.00	FC0402E50R0BST1
1A	0.1%, 0402	100	30	50mW	Top Sided Lead (Flip Chip)	FC0402-100BFCT-ND	2.94	2.28	2.10	FC0402-100BFTR-ND	1,000	910.00	FC0402E1000BTBST1
1B	0.1%, 0402	100	30	50mW	Wraparound Lead	FC0402-100BWCT-ND	2.94	2.28	2.10	FC0402-100BWTR-ND	1,000	910.00	FC0402E1000BST1
1A	0.1%, 0603	50	50	125mW	Top Sided Lead (Flip Chip)	FC0603-50BFCT-ND	2.94	2.28	2.10	FC0603-50BFTR-ND	1,000	910.00	FC0603E50R0BTBST1
1B	0.1%, 0603	50	50	125mW	Wraparound Lead	FC0603-50BWCT-ND	2.94	2.28	2.10	FC0603-50BWTR-ND	1,000	910.00	FC0603E50R0BST1
1A	0.1%, 0603	100	50	125mW	Top Sided Lead (Flip Chip)	FC0603-100BFCT-ND	2.94	2.28	2.10	FC0603-100BFTR-ND	1,000	910.00	FC0603E1000BTBST1
1B	0.1%, 0603	100	50	125mW	Wraparound Lead	FC0603-100BWCT-ND	2.94	2.28	2.10	FC0603-100BWTR-ND	1,000	910.00	FC0603E1000BST1

NEW! Precision Automotive Thin Film Chip Resistors, AEC-Q200 Qualified, 2kV ESD Rating — PAT Series

These chip resistors are available in wraparound termination styles in 12 case sizes.

They incorporate self passivated enhanced tantalum nitride resistor film to give superior performance on moisture resistance, electrostatic discharge, voltage coefficient, power handling and resistance stability.

The terminations consist of an adhesion layer, a leach resistant nickel barrier, and solder coating (lead (Pb)-free). This product will out-perform all requirements of AEC-Q200.

FEATURES: • Moisture resistant to MIL-STD-202, method 202 • Laser-trimmed tolerances to ±0.1% • Load life stability < 0.05% @1,000h @70°C • Very low noise and voltage coefficient (< -30dB, < 0.1ppm/V)

SPECIFICATIONS: • TCR: 25ppm/°C • Stability: ±0.05% • Operating Temperature Range: -55°C ~ 150°C

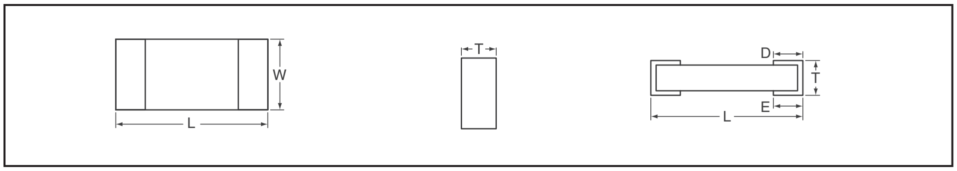

Case Size	Dimensions – mm				
	Length (L)	Width (W)	Thickness (T)	Top Pad (D)	Bottom Pad (E)
0603	1.626	0.813	0.381	0.305	0.381
0805	2.032	1.27	0.381	0.381	0.381
1206	3.200	1.600	0.381	0.508	0.508

0.1%, 0.15 Watt - Series 0603 — Resistor Values

24.9	909	4.75K	30.1K	60.4K
90.9	1.00K	6.12K	31.6K	66.5K
178	1.5K	7.50K	34.8K	75K
200	1.62K	10K	40K	
249	1.78K	11.5K	44.2K	
400	2.00K	13.3K	47K	
499	2.43K	14.7K	49.9K	
619	3.01K	20K	51.1K	

0.1%, 0.2 Watt - Series 0805 — Resistor Values

10.0	1.00K	5.62K	16.9K	51.7K
25.0	1.21K	6.04K	18.0K	59.0K
49.9	1.24K	6.34K	19.1K	69.8K
127	2.00K	7.15K	22.0K	89.8K
150	2.43K	10.0K	26.1K	100K
301	3.79K	11.0K	30.1K	110K
309	4.37K	11.5K	40.2K	150K
499	4.70K	15.0K	49.9K	249K

0.1%, 0.4 Watt - Series 1206 — Resistor Values

10.0	900	3.65K	15.0K	49.9K	422K
20.0	920	4.02K	16.9K	50.5K	549K
30.1	1.00K	4.99K	20.0K	56.2K	604K
49.9	1.74K	6.65K	27.4K	100K	
294	1.96K	8.06K	28.0K	110K	
442	2.00K	9.09K	30.1K	150K	
499	2.49K	10.0K	40.2K	200K	
750	3.01K	10.2K	42.2K	249K	

Description	Resistance (Ω)	Working Voltage (V)	Rated Power	Termination	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel		Vishay Thin Film Part No.
						1	25	100		Qty.	Pricing	
0.1%, 0603	24.9 ~ 75K	75	0.15W	Wraparound Lead	PAT(Value)ACT-ND	1.10	.88	.75	PAT(Value)ATR-ND	1,000	297.00	PAT0603ExxxxBST1
0.1%, 0805	10.0 ~ 249K	100	0.2W	Wraparound Lead	PAT(Value)BCT-ND	1.15	.92	.79	PAT(Value)BTR-ND	1,000	311.00	PAT0805ExxxxBST1
0.1%, 1206	10.0 ~ 604K	200	0.4W	Wraparound Lead	PAT(Value)CCT-ND	1.05	.90	.75	PAT(Value)CTR-ND	1,000	359.00	PAT1206ExxxxBST1

† For complete part number, substitute corresponding value from the Resistor Value Chart.

VISHAY Thin Film NEW! Precision Low TCR Thin Film Chip Resistors ±5 ppm/°C TCR, 0.05% Tolerance

These precision thin film wraparound resistors are ideal for precision applications requiring low noise, stability, ultra low temperature coefficient of resistance, and low voltage coefficient. **FEATURES:** • TCR of ±5 ppm/°C standard • Anti corrosion resistant film with (SPM) special passivation method • Stable film and performance characteristics (500 ppm at 70°C, 10,000 h) • Very low noise and voltage coefficient (< -30dB, 0.1 ppm/V) • UL 94 V-0 flame resistant • Halogen-free according to IEC 61249-2-21 definition **SPECIFICATIONS:** • Material: Passivated nichrome • Absolute TCR: ±5 ppm/°C at -55°C ~ 125°C • Absolute tolerance: ±0.05% at 25°C • Voltage Coefficient: ±0.1 ppm/V typical • Operating temperature: -55°C ~ 125°C • Noise: < -35dB typical • Termination: Wraparound lead (Pb)-free solder 96.5% Sn/3.0% Ag/0.5% Cu

Resistor Values (Ω)

Series 0603

250	20K
500	25K
10K	

Series 0805

500	5.0K	25K
1.0K	10K	50K
2.0K	20K	

Series 1206

500	5.0K	25K
1.0K	10K	50K
2.0K	20K	100K

Case Size	Power Rating (mW)	Maximum Working Voltage (V)	Dimensions — inches L	W	T	D	E	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Digi-Key Part No.†	Tape and Reel Pricing 500	Vishay Thin Film Part No.
0603	150	75	0.064	0.032	0.020	0.012	0.015	PLT0603-(Value)ACT-ND	5.46	4.34	4.06	PLT0603-(Value)ATR-ND	980.00	PLT0603ZxxxxAST5
0805	250	100	0.080	0.050	0.015	0.016	0.015	PLT0805-(Value)ACT-ND	5.15	4.10	3.83	PLT0805-(Value)ATR-ND	924.00	PLT0805ZxxxxAST5
1206	400	220	0.126	0.063	0.015	0.020	0.020	PLT1206-(Value)ACT-ND	5.58	4.44	4.15	PLT1206-(Value)ATR-ND	1001.00	PLT1206ZxxxxAST5

† For complete part number, substitute the value from Resistor Values chart.

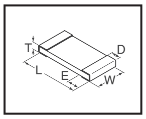

NEW! Precision Thin Film Non-Magnetic Chip Resistors

These devices eliminate materials that would disturb magnetic fields applications such as in MRI magnetic resonance imaging machines. The PNM series chip resistor has been carefully engineered with non-magnetic materials to eliminate the effects of these stray magnetic fields on circuit performance, thereby resulting in simplified shielding requirements and improved sound quality in audio applications. Providing signal conditioning without distortion from magnetic fields. **FEATURES:** • Non-magnetic • Moisture resistant • High purity alumina substrate • Will pass 85°C, 85% relative humidity and 10% rated power • 100% visual inspected per MIL-PRF-55342 • Very low noise and voltage coefficient (< -30dB) • Non-inductive • Wraparound resistance less than 10mΩ • Halogen-free according to IEC 61249-2-21 definition available **SPECIFICATIONS:** • Material: Tantalum nitride • Absolute TCR: ±25ppm/°C at -55°C ~ 125°C • Absolute Tolerance: ±0.1% at 25°C • Operating Temperature: -55°C ~ 125°C • Noise: < -25dB • Termination: Wraparound lead (Pb)-free solder 96.5% Sn/3.0% Ag/0.5% Cu

Resistor Values (Ω)

Series 0603

1.0K	20K
2.0K	25K
5.0K	50K
10K	

Series 0805

1.0K	20K
2.0K	25K
5.0K	50K
10K	100K

Series 1206

1.0K	5.0K	20K	50K	1.0M
2.0K	10K	25K	100K	

Case Size	Power Rating (mW)	Maximum Working Voltage	Dimensions — inches L	W	T	D	E	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Digi-Key Part No.†	Tape & Reel Pricing 500	Vishay Thin Film Part No.
0603	150	75V	0.064	0.032	0.020	0.012	0.015	PNM0603-(Value)BCT-ND	2.52	2.10	1.82	PNM0603-(Value)BTR-ND	525.00	PNM0603ExxxxBST5
0805	200	100V	0.080	0.050	0.015	0.015	0.015	PNM0805-(Value)BCT-ND	1.40	1.19	.99	PNM0805-(Value)BTR-ND	288.00	PNM0805ExxxxBST5
1206	400	200V	0.126	0.063	0.015	0.020	0.020	PNM1206-(Value)BCT-ND	1.72	1.46	1.21	PNM1206-(Value)BTR-ND	352.00	PNM1206ExxxxBST5
	400	200V	0.126	0.063	0.015	0.020	0.020	PNM1206-1.0MBCT-ND	1.91	1.59	1.38	PNM1206-1.0MBTR-ND	397.50	PNM1206E1004BST5

† For complete part number, substitute the value from Resistor Values chart.

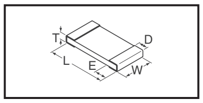

VISHAY Beyschlag NEW! Precision and Professional Automotive Thin Film Chip Resistors

FEATURES: • Superior moisture resistivity, < 0.5% (85°C, 85% RH; 1,000h) Rated Dissipation P70 and P85• AEC-Q200 qualified • Approved according to EN 140401-801 • Lead (Pb)-free solder contacts • Compliant with RoHS directive 2002/95/EC **APPLICATIONS:** • Automotive • Telecommunication • Medical equipment • Industrial equipment

Resistor Values (Ω) — Series 0603

100	470	3.32K	15K	75K
150	1.0K	4.7K	33.2K	100K
332	1.5K	10K	47K	

Dimensions in mm

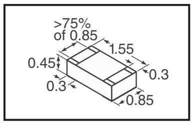

Tolerance	Resistance (Ω)	Operating Voltage (V)	Temperature Coefficient	Rated Dissipation (W)	Permissible Film Temperature	Digi-Key Part No.†	Cut Tape Price Each 1	10	50	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Vishay Beyschlag Part No.
0.1%	100 ~ 100k	75	±25 ppm/K	P70, 0.125	155°C	MCT0603-(Value)-MBCT-ND	1.19	.99	.74	MCT0603-(Value)-MBTR-ND	1,000	341.20	MCT0603MDxxxxBP100
0.5%	100 ~ 100k	75	±25 ppm/K	P85, 0.150	175°C	MCT0603-(Value)-MDCT-ND	.22	.18	.14	MCT0603-(Value)-MDTR-ND	5,000	51.46/M	MCT0603MDxxxxDP500

† For complete part number, substitute the value from Resistor Values chart.

NEW! High Pulse Load MELF Resistors

CMA 0204 and CMA 0207 specialty MELF resistors with advanced pulse load capability are the perfect choice for the protection of circuitry with signal or mains input lines from surge pulses. The resistors are also suitable for circuits exposed to high levels of electromagnetic interference or electrostatic discharge. **FEATURES:** • Special carbon film technology • Up to 4 kV single pulse capability for 0204 Series, and up to 10 kV or 17 kW single pulse capability for 0207 Series • Up to 70W continuous pulse load for 0204 Series and up to tbf. continuous pulse load capability for 0207 Series • ESD capability: 6 kV (0204 Series), 16 Kv (0207 Series), Human Body Model • Compatible with lead (Pb)-free and lead containing soldering processes 0207 Series is approved to the safety requirements of IEC 60065, 14.1a (= VDE 0860, 14.1a) VDE-REG.-Nr. B583 **APPLICATIONS:** • Automotive • Telecommunications • Industrial • Medical equipment **SPECIFICATIONS:** • Film temperature: 155°C • Failure rate: ≤ 1 x $10^{-9/h}$

Dimensions in mm

Fig. 1

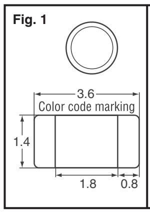

Fig. 2

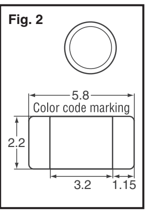

Resistor Values (Ω) — Series 0204

10	22	100	330	680	1.8K	3.9K	10K	22K	100K
12	33	82	390	1.0K	2.2K	4.7K	12K	56K	
15	47	120	470	1.2K	3.3K	6.8K	15K	68K	
18	68	150	560	1.5K	3.6K	8.2K	18K	91K	

Resistor Values (Ω) — Series 0207

±2% Resistance Tolerance

18	51	100	220	510	1.5K	4.7K	6.8K	51K	150K
27	56	120	270	680	2.2K	5.1K	20K	68K	220K
33	68	150	330	1.0K	2.4K	5.6K	22K	75K	510K
47	75	200	360	1.2K	3.3K	6.2K	39K	130K	1.5M

±5% Resistance Tolerance

2.2	11
2.7	15
3.3	
10	

Fig.	Series	CECC size	Resistance (Ω)	Resistance Tolerance	Rated dissipation P70 (W)	Operating Voltage (V)	Digi-Key Part No.†	Cut Tape Price Each 1	10	50	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Vishay Beyschlag Part No.
1	0204	RC 3715M	10 ~ 100K	±2%	0.4	200	CMA-(Value)CT-ND	.48	.40	.30	CMA-(Value)TR-ND	3,000	136.00/M	CMA02040XxxxxGB300
2	0207	RC 6123M	18 ~ 1.5M	±2%	1.0	500	CMB-(Value)CT-ND	1.05	.87	.65	CMB-(Value)TR-ND	2,000	300.00/M	CMB02070XxxxxGB200
			2.2 ~ 15	±5%	1.0	500	CMB-(Value)CT-ND	1.05	.87	.65	CMB-(Value)TR-ND	2,000	300.00/M	CMB02070XxxxxJB200

† For complete part number, substitute the value from Resistor Values chart.

NEW! Professional MELF Resistors - MMU 0102, MMA 0204, MMB 0207 Series

These resistors are the perfect choice for most fields of modern professional electronics where reliability and stability is of major concern. **FEATURES:** • Approved according to EN 140401-803 • Advanced thin film technology • Excellent overall stability; exceeds Class 0.25 • Force fitted steel caps, tin plated on nickel barrier • Pure Sn termination on Ni barrier layer • Compatible with lead (Pb)-free and lead containing soldering processes **APPLICATIONS:** • Automotive • Telecommunications • Industrial • Medical equipment SPECIFICATIONS: • Resistance tolerance: ±1% • Temperature coefficient: ±50 ppm/K • Film temperature: 155°C

Resistor Values (Ω) — Series 0102

0.0	1.0K	4.75K	1.0M
10	1.2K	10K	
49.9	1.5K	20K	
100	2.0K	100K	
475	4.7K	150K	

Resistor Values (Ω) — Series 0204

0.0	3.3	47	180	330	1.2K	2.7K	4.75K	8.25K	21.5K	47K	330K	10M
1.0	4.7	60.4	200	470	1.5K	3.3K	4.99K	10K	22.1K	47.5K	332K	
1.5	10	75	220	680	2.0K	3.32K	5.11K	12.1K	22K	100K	470K	
1.8	22	100	232	1.0K	2.2K	3.65K	5.6K	15K	27K	150K	499K	
2.7	33	150	300	1.02K	2.21K	4.7K	5.9K	20K	33.2K	200K	1.0M	

Resistor Values (Ω) — Series 0207

0.0	10	240	560	1.5K	100K	750K
1.0	56	249	680	2.49K	390K	820K
1.5	75	301	750	5.6K	470K	1.0M
2.2	100	390	1.0K	10K	499K	
4.7	150	470	1.2K	33K	560K	

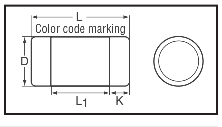

Series	CECC Size	Resistance (Ω)	Rated Dissipation P_{70} (W)	Operating Voltage (V)	Failure Rate	Dimensions — mm L	D	L1‡	K	Digi-Key Part No.†	Cut Tape Pricing 1	10	50	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Vishay Beyschlag Part No.
0102	RC 2211M	0.0	0.3	150	≤ 2 x 10-9/h	2.2	1.1	1.2	0.4	MMU-0.0CT-ND	.33	2.70	10.11	MMU-0.0TR-ND	3,000	94.00/M	MMU01020Z0000ZB300
		10, 49.9, 1.0M	0.3	150	≤ 2 x 10-9/h	2.2	1.1	1.2	0.4	MMU-(Value)CT-ND	.29	2.36	8.82	MMU-(Value)TR-ND	3,000	82.00/M	MMU01020CxxxxFB300
		100 ~ 150K	0.3	150	≤ 2 x 10-9/h	2.2	1.1	1.2	0.4	MMU-(Value)CT-ND	.22	1.84	6.88	MMU-(Value)TR-ND	3,000	64.00/M	MMU01020CxxxxFB300
0204	RC 3715M	0.0	0.4	200	≤ 0.7 x 10-9/h	3.6	1.4	1.8	0.8	MMA-0.0CT-ND	.21	1.73	6.45	MMA-0.0TR-ND	3,000	60.00/M	MMA02040Z0000ZB300
		1.0, 1.5, 1.8, 2.7, 3.3, 4.7	0.4	200	≤ 0.7 x 10-9/h	3.6	1.4	1.8	0.8	MMA-(Value)CT-ND	.21	1.73	6.45	MMA-(Value)TR-ND	3,000	60.00/M	MMA02040CxxxxFB300
		10 ~ 10M	0.4	200	≤ 0.7 x 10-9/h	3.6	1.4	1.8	0.8	MMA-(Value)CT-ND	.14	1.15	4.30	MMA-(Value)TR-ND	3,000	40.00/M	MMA02040CxxxxFB300
0207	RC 6123M	0.0	1.0	300	≤ 0.7 x 10-9/h	5.8	2.2	2.8	1.25	MMB-0.0CT-ND	.69	5.64	21.07	MMB-0.0TR-ND	2,000	196.00/M	MMB02070Z0000ZB200
		1.0 ~ 1.0M	1.0	300	≤ 0.7 x 10-9/h	5.8	2.2	2.8	1.25	MMB-(Value)CT-ND	.69	5.64	21.07	MMB-(Value)TR-ND	2,000	196.00/M	MMB02070CxxxxFB200

† For complete part number, substitute the value from Resistor Values chart. ‡ Color code marking is applied according to IEC 60062 in four bands (E24 series) or five bands (E96 or E192 series).

Dale

NEW! Surface Mount 0.1% High Precision Thin Film Flat Chip Resistors - TNPU Series

TNPU e3 High Precision Thin Film Flat Chip Resistors combine the proven reliability of TNPW e3 products with a most advanced level of precision and stability. This unique combination makes the product perfectly suited for all applications with outstanding requirements towards size, reliable precision and stability.

Features: • Low temperature coefficient and tight tolerances • Superior moisture resistivity ≤0.25% • Waste gas resistant

Size Code	Dimensions – mm				
	L	**W**	**H**	**T1**	**T2**
0603	1.6 ±0.1	0.85 ±0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2
0805	2.0 ±0.15	1.25 ±0.15	0.45 ±0.1	0.4 ±0.2	0.4 ±0.2
1206	3.2 ±0.15	1.6 ±0.15	0.55 ±0.1	0.5 ±0.25	0.5 ±0.25

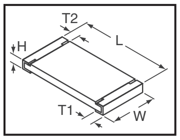

0.1% 1/10W — 0603 Series

Resistor Values

100	1.00K	2.00K	2.49K	4.99K	10.0K	15.0K	20.0K	24.9K	49.9K	100K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 1,000	Vishay Part No.
0.1%, 0603, 1/10 Watt	100 ~ 100K	75	0.1	TNP**(Value)**BACT-ND	27.56	111.98	399.68	TNP**(Value)**BATR-ND	1165.00	TNPU0603xxxxBZEN00

0.1% 1/8W — 0805 Series

Resistor Values

100	1.00K	2.00K	4.99K	10.0K	20.0K	49.9K	100K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 1,000	Vishay Part No.
0.1%, 0805, 1/8 Watt	100 ~ 100K	150	0.125	TNP**(Value)**BBCT-ND	28.14	114.30	407.97	TNP**(Value)**BBTR-ND	1189.00	TNPU0805xxxxBZEN00

0.1% 1/4W — 1206 Series

Resistor Values

100	1.00K	2.00K	4.99K	10.0K	20.0K	49.9K	100K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 1,000	Vishay Part No.
0.1%, 1206, 1/4 Watt	100 ~ 100K	200	0.25	TNP**(Value)**BCCT-ND	37.65	152.96	545.95	TNP**(Value)**BCTR-ND	1593.00	TNPU1206xxxxBZEN00

Surface Mount 0.1% High Stability Thin Film Flat Chip Resistors - TNPW Series

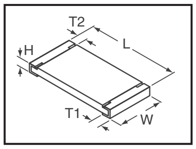

The TNPW e3 Precision Thin Film Flat Chip Resistors are the perfect choice for most fields of modern electronics where highest reliability and stability is of major concern.

Features: • Superior moisture resistivity ≤0.25% (85°C; 56 days; 85% RH) • Lead free solder contacts • Low temperature coefficient and tight tolerances • Waste gas resistant

Specifications: • Tolerance: ±0.1% • Temperature Coefficient: ±25ppm/K • Maximum permissible film temperature: 155°C

Typical Applications: • Automotive • Medical equipment • Telecommunication • Industrial equipment • Instrumentation • Test and measuring equipment

Size Code	Dimensions – mm				
	L	**W**	**H**	**T1**	**T2**
0402	1.0 ±0.05	0.5 ±0.05	0.35 ±0.05	0.2 ±0.1	0.2 ±0.1
0603	1.6 ±0.1	0.85 ±0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2
0805	2.0 ±0.15	1.25 ±0.15	0.45 ±0.1	0.4 ±0.2	0.4 ±0.2
1206	3.2 ±0.15	1.6 ±0.15	0.55 ±0.1	0.5 ±0.25	0.5 ±0.25

0.1% 1/16W — 0402 Series

Resistor Values

10.2	100	267	453	909	1.10K	1.58K	2.15K	2.70K	3.83K	4.70K	6.34K	9.09K	10.2K	13.2K	19.6K	23.2K	30.1K	40.2K	51.1K	68.1K	100K
49.9	107	274	481	953	1.20K	1.62K	2.20K	2.80K	3.90K	4.75K	6.65K	9.42K	11.4K	14.7K	20.0K	24.9K	30.9K	42.7K	54.2K	71.5K	
62.6	176	365	499	1.00K	1.21K	1.96K	2.21K	2.94K	3.92K	4.87K	6.81K	9.53K	12.4K	15.0K	20.5K	26.1K	33.0K	44.2K	60.4K	75.0K	
80.6	200	402	523	1.02K	1.30K	2.00K	2.49K	3.01K	4.02K	4.99K	7.50K	9.65K	12.7K	16.2K	22.1K	29.4K	37.4K	48.7K	63.4K	76.8K	
88.7	221	442	777	1.05K	1.50K	2.05K	2.67K	3.32K	4.32K	5.11K	8.45K	10.0K	13.0K	17.8K	22.6K	30.0K	39.2K	49.9K	66.5K	93.1K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
0.1%, 0402, 1/16 Watt	10.2 ~ 88.7	50	0.063	TNP**(Value)**DACT-ND	9.76	39.65	141.52	TNP**(Value)**DATR-ND	456.00/M	TNPW0402xxxxBEED
0.1%, 0402, 1/16 Watt	100 ~ 100K	50	0.063	TNP**(Value)**DACT-ND	6.56	26.65	95.12	TNP**(Value)**DATR-ND	304.00/M	TNPW0402xxxxBEED

0.1% 1/10W — 0603 Series

Resistor Values

10.0	100	1.00K	1.20K	2.00K	2.32K	3.24K	4.70K	4.99K	7.50K	10.0K	12.0K	14.0K	18.0K	24.3K	30.1K	39.2K	51.1K	200K
75.0	249	1.02K	1.50K	2.21K	2.49K	4.02K	4.75K	5.11K	9.09K	11.0K	12.1K	15.0K	20.0K	24.9K	32.4K	49.9K	100K	249K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
0.1%, 0603, 1/10 Watt	10.0, 75.0, 249K	75	0.1	TNP**(Value)**AACT-ND	7.36	29.90	106.72	TNP**(Value)**AATR-ND	405.00/M	TNPW0603xxxxBEEA
0.1%, 0603, 1/10 Watt	100 ~ 200K	75	0.1	TNP**(Value)**AACT-ND	6.56	26.65	95.12	TNP**(Value)**AATR-ND	360.00/M	TNPW0603xxxxBEEA

0.1% 1/8W — 0805 Series

Resistor Values

49.9	200	499	1.27K	2.49K	4.75K	6.19K	9.09K	11.0K	15.8K	24.9K	34.0K	51.1K	100K	200K
75.0	221	909	2.00K	3.01K	4.99K	7.50K	10.0K	12.1K	20.0K	30.1K	40.2K	75.0K	115K	249K
100	249	1.00K	2.21K	4.02K	5.11K	8.66K	10.2K	15.0K	22.1K	33.2K	49.9K	90.9K	191K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
0.1%, 0805, 1/8 Watt	49.9 ~ 249K	150	0.125	TNP**(Value)**ABCT-ND	6.56	26.65	95.12	TNP**(Value)**ABTR-ND	360.00/M	TNPW0805xxxxBEEA

0.1% 1/4W — 1206 Series

Resistor Values

49.9	150	274	1.50K	2.00K	2.49K	4.75K	7.50K	10.0K	15.0K	20.0K	40.2K	100K	200K	301K	1.00M
100	249	1.00K	1.91K	2.21K	4.02K	4.99K	9.09K	12.0K	18.2K	25.5K	49.9K	150K	249K	499K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
0.1%, 1206, 1/4 Watt	49.9 ~ 301K	200	0.25	TNP**(Value)**ACCT-ND	9.36	38.03	135.72	TNP**(Value)**ACTR-ND	518.00/M	TNPW1206xxxxBEEA
0.1%, 1206, 1/4 Watt	499K ~ 1.00M	200	0.25	TNP**(Value)**ACCT-ND	7.76	31.53	112.52	TNP**(Value)**ACTR-ND	428.00/M	TNPW1206xxxxBEEA

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. **Dale**

Surface Mount, 1% Thick-Film Chip Resistors

CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

Digi-Reel® RoHS COMPLIANT

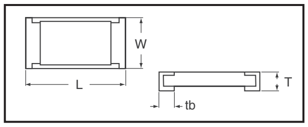

Features:

• High volume product suitable for commercial and special applications • Excellent stability (Δ *R/R* ≤ 1% for 1000 h at 70°C) • Lead (Pb)-free solder contacts on Ni barrier layer • Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes • Metal glaze on high quality ceramic • Protective overglaze

Specifications:

• Insulation Resistance: >10⁹Ω • Category Temperature Range: -55°C ~ 155°C

CRCW0201xxxxFNED 1%
200ppm, 1/20W — 0201 Series
Resistor Values

10.0	274	4.75K	27.4K	100K
22.1	332	4.99K	33.2K	274K
24.9	499	5.62K	47.5K	499K
33.2	750	6.81K	49.9K	750K
49.9	1.00K	7.50K	56.2K	1.00M
75.0	2.21K	8.25K	68.1K	
100	2.74K	10.0K	75.0K	
221	3.32K	22.1K	82.5K	

CRCW0201xxxxFKED 1%
100ppm, 1/20W — 0201 Series
Resistor Values

47.5	75.0	249	511	1.15K	1.50K	1.96K	2.40K	3.16K	4.02K	4.99K	6.20K	8.25K	11.5K	15.0K	19.6K	24.0K	31.6K	40.2K	49.9K	62.0K	82.5K	200K
49.9	100	274	604	1.20K	1.54K	2.00K	2.49K	3.30K	4.22K	5.10K	6.49K	8.66K	12.0K	15.4K	20.0K	24.9K	33.0K	42.2K	51.0K	64.9K	86.6K	274K
51.1	121	330	750	1.21K	1.60K	2.05K	2.61K	3.32K	4.30K	5.11K	6.80K	9.09K	12.1K	16.0K	20.5K	26.1K	33.2K	43.0K	51.1K	68.0K	90.9K	301K
56.2	130	332	787	1.27K	1.62K	2.15K	2.70K	3.48K	4.42K	5.36K	6.81K	9.10K	12.7K	16.2K	21.5K	27.0K	34.8K	44.2K	53.6K	68.1K	91.0K	340K
61.9	133	360	953	1.30K	1.69K	2.20K	2.74K	3.60K	4.64K	5.60K	7.15K	9.53K	13.0K	16.9K	22.0K	27.4K	36.0K	46.4K	56.0K	71.5K	95.3K	499K
64.9	150	475	1.00K	1.33K	1.78K	2.21K	2.87K	3.65K	4.70K	5.62K	7.50K	10.0K	13.3K	17.8K	22.1K	28.7K	36.5K	47.0K	56.2K	75.0K	100K	750K
68.0	200	499	1.05K	1.40K	1.80K	2.26K	3.00K	3.83K	4.75K	5.90K	7.87K	10.5K	14.0K	18.0K	22.6K	30.0K	38.3K	47.5K	59.0K	78.7K	120K	953K
68.1	221	510	1.10K	1.47K	1.87K	2.37K	3.01K	3.90K	4.87K	6.19K	8.20K	11.0K	14.7K	18.7K	23.7K	30.1K	39.0K	48.7K	61.9K	82.0K	182K	1.00M

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 0201, 1/20 Watt	10.0 ~ 1.00M	±200	30	0.05	0.3	0.6	0.23	0.15	541-**(Value)**ABCT-ND	2.64	7.10	16.32	541-**(Value)**ABTR-ND	51.00/M	CRCW0201xxxxFNED
1%, 0201, 1/20 Watt	47.5 ~ 1.00M	±100	30	0.05	0.3	0.6	0.23	0.15	541-**(Value)**AABCT-ND	2.64	7.10	16.32	541-**(Value)**AABTR-ND	41.00/M	CRCW0201xxxxFKED

CRCW 1% 1/16W — 0402 Series
Resistor Values

1.00	1.82	3.24	5.49	9.53	17.8	30.9	52.3	91.0	169	300	510	887	1.62K	2.87K	4.87K	8.45K	15.8K	27.4K	47.0K	82.0K	150K	267K	453K	787K	1.43M	2.55M	4.32M
1.02	1.87	3.30	5.60	9.76	18.0	31.6	53.6	93.1	174	301	511	909	1.65K	2.94K	4.99K	8.66K	16.0K	28.0K	47.5K	82.5K	154K	270K	464K	806K	1.47M	2.61M	4.42M
1.05	1.91	3.32	5.62	10.0	18.2	32.4	54.9	95.3	178	309	523	910	1.69K	3.00K	5.10K	8.87K	16.2K	28.7K	48.7K	84.5K	158K	274K	470K	820K	1.50M	2.67M	4.53M
1.07	1.96	3.40	5.76	10.2	18.7	33.0	56.0	97.6	180	316	536	931	1.74K	3.01K	5.11K	9.09K	16.5K	29.4K	49.9K	86.6K	160K	280K	475K	825K	1.54M	2.70M	4.64M
1.10	2.00	3.48	5.90	10.5	19.1	33.2	56.2	100	182	324	549	953	1.78K	3.09K	5.23K	9.10K	16.9K	30.0K	51.0K	88.7K	162K	287K	487K	845K	1.58M	2.74M	4.70M
1.13	2.05	3.57	6.04	10.7	19.6	34.0	57.6	102	187	330	560	976	1.80K	3.16K	5.36K	9.31K	17.4K	30.1K	51.1K	90.9K	165K	294K	499K	866K	1.60M	2.80M	4.75M
1.15	2.10	3.60	6.19	11.0	20.0	34.8	59.0	105	191	332	562	1.00K	1.82K	3.24K	5.49K	9.53K	17.8K	30.9K	52.3K	91.0K	169K	300K	510K	887K	1.62M	2.87M	4.87M
1.18	2.15	3.65	6.20	11.3	20.5	35.7	60.4	107	196	340	576	1.02K	1.87K	3.30K	5.60K	9.76K	18.0K	31.6K	53.6K	93.1K	174K	301K	511K	909K	1.65M	2.94M	4.99M
1.20	2.20	3.74	6.34	11.5	21.0	36.0	61.9	110	200	348	590	1.05K	1.91K	3.32K	5.62K	10.0K	18.2K	32.4K	54.9K	95.3K	178K	309K	523K	910K	1.69M	3.00M	5.11M
1.21	2.21	3.83	6.49	11.8	21.5	36.5	62.0	113	205	357	604	1.07K	1.96K	3.40K	5.76K	10.2K	18.7K	33.0K	56.0K	97.6K	180K	316K	536K	931K	1.74M	3.01M	5.23M
1.24	2.26	3.90	6.65	12.0	22.0	37.4	63.4	115	210	360	619	1.10K	2.00K	3.48K	5.90K	10.5K	19.1K	33.2K	56.2K	100K	182K	324K	549K	953K	1.78M	3.09M	5.36M
1.27	2.32	3.92	6.80	12.1	22.1	38.3	64.9	118	215	365	620	1.13K	2.05K	3.57K	6.04K	10.7K	19.6K	34.0K	57.6K	102K	187K	330K	560K	976K	1.80M	3.16M	5.49M
1.30	2.37	4.02	6.81	12.4	22.6	39.0	66.5	120	220	374	634	1.15K	2.10K	3.60K	6.19K	11.0K	20.0K	34.8K	59.0K	105K	191K	332K	562K	1.00M	1.82M	3.24M	10.0M
1.33	2.40	4.12	6.98	12.7	23.2	39.2	68.0	121	221	383	649	1.18K	2.15K	3.65K	6.20K	11.3K	20.5K	35.7K	60.4K	107K	196K	340K	576K	1.02M	1.87M	3.30M	
1.37	2.43	4.22	7.15	13.0	23.7	40.2	68.1	124	226	390	665	1.20K	2.20K	3.74K	6.34K	11.5K	21.0K	36.0K	61.9K	110K	200K	348K	590K	1.05M	1.91M	3.32M	
1.40	2.49	4.30	7.32	13.3	24.0	41.2	69.8	127	232	392	680	1.21K	2.21K	3.83K	6.49K	11.8K	21.5K	36.5K	62.0K	113K	205K	357K	604K	1.07M	1.96M	3.40M	
1.43	2.55	4.32	7.50	13.7	24.3	42.2	71.5	130	237	402	681	1.24K	2.26K	3.90K	6.65K	12.0K	22.0K	37.4K	63.4K	115K	210K	360K	619K	1.10M	2.00M	3.48M	
1.47	2.61	4.42	7.68	14.0	24.9	43.0	73.2	133	240	412	698	1.27K	2.32K	3.92K	6.80K	12.1K	22.1K	38.3K	64.9K	118K	215K	365K	620K	1.13M	2.05M	3.57M	
1.50	2.67	4.53	7.87	14.3	25.5	43.2	75.0	137	243	422	715	1.30K	2.37K	4.02K	6.81K	12.4K	22.6K	39.0K	66.5K	120K	220K	374K	634K	1.15M	2.10M	3.60M	
1.54	2.70	4.64	8.06	14.7	26.1	44.2	76.8	140	249	430	732	1.33K	2.40K	4.12K	6.98K	12.7K	23.2K	39.2K	68.0K	121K	221K	383K	649K	1.18M	2.15M	3.65M	
1.58	2.74	4.70	8.20	15.0	26.7	45.3	78.7	143	255	432	750	1.37K	2.43K	4.22K	7.15K	13.0K	23.7K	40.2K	68.1K	124K	226K	390K	665K	1.20M	2.20M	3.74M	
1.60	2.80	4.75	8.25	15.4	27.0	46.4	80.6	147	261	442	768	1.40K	2.49K	4.30K	7.32K	13.3K	24.0K	41.2K	69.8K	127K	232K	392K	680K	1.21M	2.21M	3.83M	
1.62	2.87	4.87	8.45	15.8	27.4	47.0	82.0	150	267	453	787	1.43K	2.55K	4.32K	7.50K	13.7K	24.3K	42.2K	71.5K	130K	237K	402K	681K	1.24M	2.26M	3.90M	
1.65	2.94	4.99	8.66	16.0	28.0	47.5	82.5	154	270	464	806	1.47K	2.61K	4.42K	7.68K	14.0K	24.9K	43.0K	73.2K	133K	240K	412K	698K	1.27M	2.32M	3.92M	
1.69	3.00	5.10	8.87	16.2	28.7	48.7	84.5	158	274	470	820	1.50K	2.67K	4.53K	7.87K	14.3K	25.5K	43.2K	75.0K	137K	243K	422K	715K	1.30M	2.37M	4.02M	
1.74	3.01	5.11	9.09	16.5	29.4	49.9	86.6	160	280	475	825	1.54K	2.70K	4.64K	8.06K	14.7K	26.1K	44.2K	76.8K	140K	249K	430K	732K	1.33M	2.40M	4.12M	
1.78	3.09	5.23	9.10	16.9	30.0	51.0	88.7	162	287	487	845	1.58K	2.74K	4.70K	8.20K	15.0K	26.7K	45.3K	78.7K	143K	255K	432K	750K	1.37M	2.43M	4.22M	
1.80	3.16	5.36	9.31	17.4	30.1	51.1	90.9	165	294	499	866	1.60K	2.80K	4.75K	8.25K	15.4K	27.0K	46.4K	80.6K	147K	261K	442K	768K	1.40M	2.49M	4.30M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 0402, 1/16 Watt	1.00 ~ 9.76	±200	50	0.063	0.5	1.0	0.35	0.25	541-**(Value)**LCT-ND	.89	2.41	5.53	541-**(Value)**LTR-ND	7.00/M	CRCW0402xxxxFNED
1%, 0402, 1/16 Watt	1.00 ~ 9.76	±100	50	0.063	0.5	1.0	0.35	0.25	541-**(Value)**LLCT-ND	.83	2.22	5.10	541-**(Value)**LLTR-ND	5.00/M	CRCW0402xxxxFKED
1%, 0402, 1/16 Watt	10.0 ~ 10.0M	±100	50	0.063	0.5	1.0	0.35	0.25	541-**(Value)**LCT-ND	.83	2.22	5.10	541-**(Value)**LTR-ND	5.00/M	CRCW0402xxxxFKED

CRCW 1% 1/10W — 0603 Series
Resistor Values

1.00	1.87	3.32	5.76	10.5	19.6	34.8	60.4	110	205	360	620	1.15K	2.15K	3.74K	6.49K	12.0K	22.1K	39.0K	68.0K	124K	232K	402K	698K	1.30M	2.40M	4.22M	7.32M
1.02	1.91	3.40	5.90	10.7	20.0	35.7	61.9	113	210	365	634	1.18K	2.20K	3.83K	6.65K	12.1K	22.6K	39.2K	68.1K	127K	237K	412K	715K	1.33M	2.43M	4.30M	7.50M
1.05	1.96	3.48	6.04	11.0	20.5	36.0	62.0	115	215	374	649	1.20K	2.21K	3.90K	6.80K	12.4K	23.2K	40.2K	69.8K	130K	240K	422K	732K	1.37M	2.49M	4.32M	7.68M
1.07	2.00	3.57	6.19	11.3	21.0	36.5	63.4	118	220	383	665	1.21K	2.26K	3.92K	6.81K	12.7K	23.7K	41.2K	71.5K	133K	243K	430K	750K	1.40M	2.55M	4.42M	7.87M
1.10	2.05	3.60	6.20	11.5	21.5	37.4	64.9	120	221	390	680	1.24K	2.32K	4.02K	6.98K	13.0K	24.0K	42.2K	73.2K	137K	249K	432K	768K	1.43M	2.61M	4.53M	8.06M
1.13	2.10	3.65	6.34	11.8	22.0	38.3	66.5	121	226	392	681	1.27K	2.37K	4.12K	7.15K	13.3K	24.3K	43.0K	75.0K	140K	255K	442K	787K	1.47M	2.67M	4.64M	8.20M
1.15	2.15	3.74	6.49	12.0	22.1	39.0	68.0	124	232	402	698	1.30K	2.40K	4.22K	7.32K	13.7K	24.9K	43.2K	76.8K	143K	261K	453K	806K	1.50M	2.70M	4.70M	8.25M
1.18	2.20	3.83	6.65	12.1	22.6	39.2	68.1	127	237	412	715	1.33K	2.43K	4.30K	7.50K	14.0K	25.5K	44.2K	78.7K	147K	267K	464K	820K	1.54M	2.74M	4.75M	8.45M
1.20	2.21	3.90	6.80	12.4	23.2	40.2	69.8	130	240	422	732	1.37K	2.49K	4.32K	7.68K	14.3K	26.1K	45.3K	80.6K	150K	270K	470K	825K	1.58M	2.80M	4.87M	8.66M
1.21	2.26	3.92	6.81	12.7	23.7	41.2	71.5	133	243	430	750	1.40K	2.55K	4.42K	7.87K	14.7K	26.7K	46.4K	82.0K	154K	274K	475K	845K	1.60M	2.87M	4.99M	8.87M
1.24	2.32	4.02	6.98	13.0	24.0	42.2	73.2	137	249	432	768	1.43K	2.61K	4.53K	8.06K	15.0K	27.0K	47.0K	82.5K	158K	280K	487K	866K	1.62M	2.94M	5.10M	9.09M
1.27	2.37	4.12	7.15	13.3	24.3	43.0	75.0	140	255	442	787	1.47K	2.67K	4.64K	8.20K	15.4K	27.4K	47.5K	84.5K	160K	287K	499K	887K	1.65M	3.00M	5.11M	9.10M
1.30	2.40	4.22	7.32	13.7	24.9	43.2	76.8	143	261	453	806	1.50K	2.70K	4.70K	8.25K	15.8K	28.0K	48.7K	86.6K	162K	294K	510K	909K	1.69M	3.01M	5.23M	9.31M
1.33	2.43	4.30	7.50	14.0	25.5	44.2	78.7	147	267	464	820	1.54K	2.74K	4.75K	8.45K	16.0K	28.7K	49.9K	88.7K	165K	300K	511K	910K	1.74M	3.09M	5.36M	9.53M
1.37	2.49	4.32	7.68	14.3	26.1	45.3	80.6	150	270	470	825	1.58K	2.80K	4.87K	8.66K	16.2K	29.4K	51.0K	90.9K	169K	301K	523K	931K	1.78M	3.16M	5.49M	9.76M
1.40	2.55	4.42	7.87	14.7	26.7	46.4	82.0	154	274	475	845	1.60K	2.87K	4.99K	8.87K	16.5K	30.0K	51.1K	91.0K	174K	309K	536K	953K	1.80M	3.24M	5.60M	10.0M
1.43	2.61	4.53	8.06	15.0	27.0	47.0	82.5	158	280	487	866	1.62K	2.94K	5.10K	9.09K	16.9K	30.1K	52.3K	93.1K	178K	316K	549K	976K	1.82M	3.30M	5.62M	
1.47	2.67	4.64	8.20	15.4	27.4	47.5	84.5	160	287	499	887	1.65K	3.00K	5.11K	9.10K	17.4K	30.9K	53.6K	95.3K	180K	324K	560K	1.00M	1.87M	3.32M	5.76M	
1.50	2.70	4.70	8.25	15.8	28.0	48.7	86.6	162	294	510	909	1.69K	3.01K	5.23K	9.31K	17.8K	31.6K	54.9K	97.6K	182K	330K	562K	1.02M	1.91M	3.40M	5.90M	
1.54	2.74	4.75	8.45	16.0	28.7	49.9	88.7	165	300	511	910	1.74K	3.09K	5.36K	9.53K	18.0K	32.4K	56.0K	100K	187K	332K	576K	1.05M	1.96M	3.48M	6.04M	
1.58	2.80	4.87	8.66	16.2	29.4	51.0	90.9	169	301	523	931	1.78K	3.16K	5.49K	9.76K	18.2K	33.0K	56.2K	102K	191K	340K	590K	1.07M	2.00M	3.57M	6.19M	
1.60	2.87	4.99	8.87	16.5	30.0	51.1	91.0	174	309	536	953	1.80K	3.24K	5.60K	10.0K	18.7K	33.2K	57.6K	105K	196K	348K	604K	1.10M	2.05M	3.60M	6.20M	
1.62	2.94	5.10	9.09	16.9	30.1	52.3	93.1	178	316	549	976	1.82K	3.30K	5.62K	10.2K	19.1K	34.0K	59.0K	107K	200K	357K	619K	1.13M	2.10M	3.65M	6.34M	
1.65	3.00	5.11	9.10	17.4	30.9	53.6	95.3	180	324	560	1.00K	1.87K	3.32K	5.76K	10.5K	19.6K	34.8K	60.4K	110K	205K	360K	620K	1.15M	2.15M	3.74M	6.49M	
1.69	3.01	5.23	9.31	17.8	31.6	54.9	97.6	182	330	562	1.02K	1.91K	3.40K	5.90K	10.7K	20.0K	35.7K	61.9K	113K	210K	365K	634K	1.18M	2.20M	3.83M	6.65M	
1.74	3.09	5.36	9.53	18.0	32.4	56.0	100	187	332	576	1.05K	1.96K	3.48K	6.04K	11.0K	20.5K	36.0K	62.0K	115K	215K	374K	649K	1.20M	2.21M	3.90M	6.80M	
1.78	3.16	5.49	9.76	18.2	33.0	56.2	102	191	340	590	1.07K	2.00K	3.57K	6.19K	11.3K	21.0K	36.5K	63.4K	118K	220K	383K	665K	1.21M	2.26M	3.92M	6.81M	
1.80	3.24	5.60	10.0	18.7	33.2	57.6	105	196	348	604	1.10K	2.05K	3.60K	6.20K	11.5K	21.5K	37.4K	64.9K	120K	221K	390K	680K	1.24M	2.32M	4.02M	6.98M	
1.82	3.30	5.62	10.2	19.1	34.0	59.0	107	200	357	619	1.13K	2.10K	3.65K	6.34K	11.8K	22.0K	38.3K	66.5K	121K	226K	392K	681K	1.27M	2.37M	4.12M	7.15M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 0603, 1/10 Watt	1.00 ~ 9.76	±200	75	0.10	0.85	1.55	0.45	0.3	541-**(Value)**HCT-ND	.89	2.41	5.53	541-**(Value)**HTR-ND	8.00/M	CRCW0603xxxxFNEA
1%, 0603, 1/10 Watt	1.00 ~ 9.76	±100	75	0.10	0.85	1.55	0.45	0.3	541-**(Value)**HHCT-ND	.81	2.18	5.02	541-**(Value)**HHTR-ND	6.00/M	CRCW0603xxxxFKEA
1%, 0603, 1/10 Watt	1.00 ~ 10.0M	±100	75	0.10	0.85	1.55	0.45	0.3	541-**(Value)**HCT-ND	.81	2.18	5.02	541-**(Value)**HTR-ND	6.00/M	CRCW0603xxxxFKEA

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount, 1% Thick-Film Chip Resistors

CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 1% 1/8W — 0805 Series

Resistor Values

1.00	1.87	3.32	5.76	10.5	19.6	34.8	60.4	110	205	360	620	1.15K	2.15K	3.74K	6.49K	12.0K	22.1K	39.0K	68.0K	124K	232K	402K	698K	1.30M	2.40M	4.22M	7.32M
1.02	1.91	3.40	5.90	10.7	20.0	35.7	61.9	113	210	365	634	1.18K	2.20K	3.83K	6.65K	12.1K	22.6K	39.2K	68.1K	127K	237K	412K	715K	1.33M	2.43M	4.30M	7.50M
1.05	1.96	3.48	6.04	11.0	20.5	36.0	62.0	115	215	374	649	1.20K	2.21K	3.90K	6.80K	12.4K	23.2K	40.2K	69.8K	130K	240K	422K	732K	1.37M	2.49M	4.32M	7.68M
1.07	2.00	3.57	6.19	11.3	21.0	36.5	63.4	118	220	383	665	1.21K	2.26K	3.92K	6.81K	12.7K	23.7K	41.2K	71.5K	133K	243K	430K	750K	1.40M	2.55M	4.42M	7.87M
1.10	2.05	3.60	6.20	11.5	21.5	37.4	64.9	120	221	390	680	1.24K	2.32K	4.02K	6.98K	13.0K	24.0K	42.2K	73.2K	137K	249K	432K	768K	1.43M	2.61M	4.53M	8.06M
1.13	2.10	3.65	6.34	11.8	22.0	38.3	66.5	121	226	392	681	1.27K	2.37K	4.12K	7.15K	13.3K	24.3K	43.0K	75.0K	140K	255K	442K	787K	1.47M	2.67M	4.64M	8.20M
1.15	2.15	3.74	6.49	12.0	22.1	39.0	68.0	124	232	402	698	1.30K	2.40K	4.22K	7.32K	13.7K	24.9K	43.2K	76.8K	143K	261K	453K	806K	1.50M	2.70M	4.70M	8.25M
1.18	2.20	3.83	6.65	12.1	22.6	39.2	68.1	127	237	412	715	1.33K	2.43K	4.30K	7.50K	14.0K	25.5K	44.2K	78.7K	147K	267K	464K	820K	1.54M	2.74M	4.75M	8.45M
1.20	2.21	3.90	6.80	12.4	23.2	40.2	69.8	130	240	422	732	1.37K	2.49K	4.32K	7.68K	14.3K	26.1K	45.3K	80.6K	150K	270K	470K	825K	1.58M	2.80M	4.87M	8.66M
1.21	2.26	3.92	6.81	12.7	23.7	41.2	71.5	133	243	430	750	1.40K	2.55K	4.42K	7.87K	14.7K	26.7K	46.4K	82.0K	154K	274K	475K	845K	1.60M	2.87M	4.99M	8.87M
1.24	2.32	4.02	6.98	13.0	24.0	42.2	73.2	137	249	432	768	1.43K	2.61K	4.53K	8.06K	15.0K	27.0K	47.0K	82.5K	158K	280K	487K	866K	1.62M	2.94M	5.10M	9.09M
1.27	2.37	4.12	7.15	13.3	24.3	43.0	75.0	140	255	442	787	1.47K	2.67K	4.64K	8.20K	15.4K	27.4K	47.5K	84.5K	160K	287K	499K	887K	1.65M	3.00M	5.11M	9.10M
1.30	2.40	4.22	7.32	13.7	24.9	43.2	76.8	143	261	453	806	1.50K	2.70K	4.70K	8.25K	15.8K	28.0K	48.7K	86.6K	162K	294K	510K	909K	1.69M	3.01M	5.23M	9.31M
1.33	2.43	4.30	7.50	14.0	25.5	44.2	78.7	147	267	464	820	1.54K	2.74K	4.75K	8.45K	16.0K	28.7K	49.9K	88.7K	165K	300K	511K	910K	1.74M	3.09M	5.36M	9.53M
1.37	2.49	4.32	7.68	14.3	26.1	45.3	80.6	150	270	470	825	1.58K	2.80K	4.87K	8.66K	16.2K	29.4K	51.0K	90.9K	169K	301K	523K	931K	1.78M	3.16M	5.49M	9.76M
1.40	2.55	4.42	7.87	14.7	26.7	46.4	82.0	154	274	475	845	1.60K	2.87K	4.99K	8.87K	16.5K	30.0K	51.1K	91.0K	174K	309K	536K	953K	1.80M	3.24M	5.60M	10.0M
1.43	2.61	4.53	8.06	15.0	27.0	47.0	82.5	158	280	487	866	1.62K	2.94K	5.10K	9.09K	16.9K	30.1K	52.3K	93.1K	178K	316K	549K	976K	1.82M	3.30M	5.62M	
1.47	2.67	4.64	8.20	15.4	27.4	47.5	84.5	160	287	499	887	1.65K	3.00K	5.11K	9.10K	17.4K	30.9K	53.6K	95.3K	180K	324K	560K	1.00M	1.87M	3.32M	5.76M	
1.50	2.70	4.70	8.25	15.8	28.0	48.7	86.6	162	294	510	909	1.69K	3.01K	5.23K	9.31K	17.8K	31.6K	54.9K	97.6K	182K	330K	562K	1.02M	1.91M	3.40M	5.90M	
1.54	2.74	4.75	8.45	16.0	28.7	49.9	88.7	165	300	511	910	1.74K	3.09K	5.36K	9.53K	18.0K	32.4K	56.0K	100K	187K	332K	576K	1.05M	1.96M	3.48M	6.04M	
1.58	2.80	4.87	8.66	16.2	29.4	51.0	90.9	169	301	523	931	1.78K	3.16K	5.49K	9.76K	18.2K	33.0K	56.2K	102K	191K	340K	590K	1.07M	2.00M	3.57M	6.19M	
1.60	2.87	4.99	8.87	16.5	30.0	51.1	91.0	174	309	536	953	1.80K	3.24K	5.60K	10.0K	18.7K	33.2K	57.6K	105K	196K	348K	604K	1.10M	2.05M	3.60M	6.20M	
1.62	2.94	5.10	9.09	16.9	30.1	52.3	93.1	178	316	549	976	1.82K	3.30K	5.62K	10.2K	19.1K	34.0K	59.0K	107K	200K	357K	619K	1.13M	2.10M	3.65M	6.34M	
1.65	3.00	5.11	9.10	17.4	30.9	53.6	95.3	180	324	560	1.00K	1.87K	3.32K	5.76K	10.5K	19.6K	34.8K	60.4K	110K	205K	360K	620K	1.15M	2.15M	3.74M	6.49M	
1.69	3.01	5.23	9.31	17.8	31.6	54.9	97.6	182	330	562	1.02K	1.91K	3.40K	5.90K	10.7K	20.0K	35.7K	61.9K	113K	210K	365K	634K	1.18M	2.20M	3.83M	6.65M	
1.74	3.09	5.36	9.53	18.0	32.4	56.0	100	187	332	576	1.05K	1.96K	3.48K	6.04K	11.0K	20.5K	36.0K	62.0K	115K	215K	374K	649K	1.20M	2.21M	3.90M	6.80M	
1.78	3.16	5.49	9.76	18.2	33.0	56.2	102	191	340	590	1.07K	2.00K	3.57K	6.19K	11.3K	21.0K	36.5K	63.4K	118K	220K	383K	665K	1.21M	2.26M	3.92M	6.81M	
1.80	3.24	5.60	10.0	18.7	33.2	57.6	105	196	348	604	1.10K	2.05K	3.60K	6.20K	11.5K	21.5K	37.4K	64.9K	120K	221K	390K	680K	1.24M	2.32M	4.02M	6.98M	
1.82	3.30	5.62	10.2	19.1	34.0	59.0	107	200	357	619	1.13K	2.10K	3.65K	6.34K	11.8K	22.0K	38.3K	66.5K	121K	226K	392K	681K	1.27M	2.37M	4.12M	7.15M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 0805, 1/8Watt	1.00 ~ 9.76	±200	150	0.125	1.25	2.0	0.45	0.3	541-**(Value)**CCT-ND	.99	2.66	6.12	541-**(Value)**CTR-ND	10.00/M	CRCW0805xxxxFNEA
1%, 0805, 1/8Watt	1.00 ~ 9.76	±100	150	0.125	1.25	2.0	0.45	0.3	541-**(Value)**CCCT-ND	.89	2.41	5.53	541-**(Value)**CCTR-ND	8.00/M	CRCW0805xxxxFKEA
1%, 0805, 1/8Watt	1.00 ~ 10.0M	±100	150	0.125	1.25	2.0	0.45	0.3	541-**(Value)**CCT-ND	.89	2.41	5.53	541-**(Value)**CTR-ND	8.00/M	CRCW0805xxxxFKEA

CRCW 1% 1/4W — 1206 Series

Resistor Values

1.00	1.87	3.32	5.76	10.5	19.6	34.8	60.4	110	205	360	620	1.15K	2.15K	3.74K	6.49K	12.0K	22.1K	39.0K	68.0K	124K	232K	402K	698K	1.30M	2.40M	4.22M	7.32M
1.02	1.91	3.40	5.90	10.7	20.0	35.7	61.9	113	210	365	634	1.18K	2.20K	3.83K	6.65K	12.1K	22.6K	39.2K	68.1K	127K	237K	412K	715K	1.33M	2.43M	4.30M	7.50M
1.05	1.96	3.48	6.04	11.0	20.5	36.0	62.0	115	215	374	649	1.20K	2.21K	3.90K	6.80K	12.4K	23.2K	40.2K	69.8K	130K	240K	422K	732K	1.37M	2.49M	4.32M	7.68M
1.07	2.00	3.57	6.19	11.3	21.0	36.5	63.4	118	220	383	665	1.21K	2.26K	3.92K	6.81K	12.7K	23.7K	41.2K	71.5K	133K	243K	430K	750K	1.40M	2.55M	4.42M	7.87M
1.10	2.05	3.60	6.20	11.5	21.5	37.4	64.9	120	221	390	680	1.24K	2.32K	4.02K	6.98K	13.0K	24.0K	42.2K	73.2K	137K	249K	432K	768K	1.43M	2.61M	4.53M	8.06M
1.13	2.10	3.65	6.34	11.8	22.0	38.3	66.5	121	226	392	681	1.27K	2.37K	4.12K	7.15K	13.3K	24.3K	43.0K	75.0K	140K	255K	442K	787K	1.47M	2.67M	4.64M	8.20M
1.15	2.15	3.74	6.49	12.0	22.1	39.0	68.0	124	232	402	698	1.30K	2.40K	4.22K	7.32K	13.7K	24.9K	43.2K	76.8K	143K	261K	453K	806K	1.50M	2.70M	4.70M	8.25M
1.18	2.20	3.83	6.65	12.1	22.6	39.2	68.1	127	237	412	715	1.33K	2.43K	4.30K	7.50K	14.0K	25.5K	44.2K	78.7K	147K	267K	464K	820K	1.54M	2.74M	4.75M	8.45M
1.20	2.21	3.90	6.80	12.4	23.2	40.2	69.8	130	240	422	732	1.37K	2.49K	4.32K	7.68K	14.3K	26.1K	45.3K	80.6K	150K	270K	470K	825K	1.58M	2.80M	4.87M	8.66M
1.21	2.26	3.92	6.81	12.7	23.7	41.2	71.5	133	243	430	750	1.40K	2.55K	4.42K	7.87K	14.7K	26.7K	46.4K	82.0K	154K	274K	475K	845K	1.60M	2.87M	4.99M	8.87M
1.24	2.32	4.02	6.98	13.0	24.0	42.2	73.2	137	249	432	768	1.43K	2.61K	4.53K	8.06K	15.0K	27.0K	47.0K	82.5K	158K	280K	487K	866K	1.62M	2.94M	5.10M	9.09M
1.27	2.37	4.12	7.15	13.3	24.3	43.0	75.0	140	255	442	787	1.47K	2.67K	4.64K	8.20K	15.4K	27.4K	47.5K	84.5K	160K	287K	499K	887K	1.65M	3.00M	5.11M	9.10M
1.30	2.40	4.22	7.32	13.7	24.9	43.2	76.8	143	261	453	806	1.50K	2.70K	4.70K	8.25K	15.8K	28.0K	48.7K	86.6K	162K	294K	510K	909K	1.69M	3.01M	5.23M	9.31M
1.33	2.43	4.30	7.50	14.0	25.5	44.2	78.7	147	267	464	820	1.54K	2.74K	4.75K	8.45K	16.0K	28.7K	49.9K	88.7K	165K	300K	511K	910K	1.74M	3.09M	5.36M	9.53M
1.37	2.49	4.32	7.68	14.3	26.1	45.3	80.6	150	270	470	825	1.58K	2.80K	4.87K	8.66K	16.2K	29.4K	51.0K	90.9K	169K	301K	523K	931K	1.78M	3.16M	5.49M	9.76M
1.40	2.55	4.42	7.87	14.7	26.7	46.4	82.0	154	274	475	845	1.60K	2.87K	4.99K	8.87K	16.5K	30.0K	51.1K	91.0K	174K	309K	536K	953K	1.80M	3.24M	5.60M	10.0M
1.43	2.61	4.53	8.06	15.0	27.0	47.0	82.5	158	280	487	866	1.62K	2.94K	5.10K	9.09K	16.9K	30.1K	52.3K	93.1K	178K	316K	549K	976K	1.82M	3.30M	5.62M	
1.47	2.67	4.64	8.20	15.4	27.4	47.5	84.5	160	287	499	887	1.65K	3.00K	5.11K	9.10K	17.4K	30.9K	53.6K	95.3K	180K	324K	560K	1.00M	1.87M	3.32M	5.76M	
1.50	2.70	4.70	8.25	15.8	28.0	48.7	86.6	162	294	510	909	1.69K	3.01K	5.23K	9.31K	17.8K	31.6K	54.9K	97.6K	182K	330K	562K	1.02M	1.91M	3.40M	5.90M	
1.54	2.74	4.75	8.45	16.0	28.7	49.9	88.7	165	300	511	910	1.74K	3.09K	5.36K	9.53K	18.0K	32.4K	56.0K	100K	187K	332K	576K	1.05M	1.96M	3.48M	6.04M	
1.58	2.80	4.87	8.66	16.2	29.4	51.0	90.9	169	301	523	931	1.78K	3.16K	5.49K	9.76K	18.2K	33.0K	56.2K	102K	191K	340K	590K	1.07M	2.00M	3.57M	6.19M	
1.60	2.87	4.99	8.87	16.5	30.0	51.1	91.0	174	309	536	953	1.80K	3.24K	5.60K	10.0K	18.7K	33.2K	57.6K	105K	196K	348K	604K	1.10M	2.05M	3.60M	6.20M	
1.62	2.94	5.10	9.09	16.9	30.1	52.3	93.1	178	316	549	976	1.82K	3.30K	5.62K	10.2K	19.1K	34.0K	59.0K	107K	200K	357K	619K	1.13M	2.10M	3.65M	6.34M	
1.65	3.00	5.11	9.10	17.4	30.9	53.6	95.3	180	324	560	1.00K	1.87K	3.32K	5.76K	10.5K	19.6K	34.8K	60.4K	110K	205K	360K	620K	1.15M	2.15M	3.74M	6.49M	
1.69	3.01	5.23	9.31	17.8	31.6	54.9	97.6	182	330	562	1.02K	1.91K	3.40K	5.90K	10.7K	20.0K	35.7K	61.9K	113K	210K	365K	634K	1.18M	2.20M	3.83M	6.65M	
1.74	3.09	5.36	9.53	18.0	32.4	56.0	100	187	332	576	1.05K	1.96K	3.48K	6.04K	11.0K	20.5K	36.0K	62.0K	115K	215K	374K	649K	1.20M	2.21M	3.90M	6.80M	
1.78	3.16	5.49	9.76	18.2	33.0	56.2	102	191	340	590	1.07K	2.00K	3.57K	6.19K	11.3K	21.0K	36.5K	63.4K	118K	220K	383K	665K	1.21M	2.26M	3.92M	6.81M	
1.80	3.24	5.60	10.0	18.7	33.2	57.6	105	196	348	604	1.10K	2.05K	3.60K	6.20K	11.5K	21.5K	37.4K	64.9K	120K	221K	390K	680K	1.24M	2.32M	4.02M	6.98M	
1.82	3.30	5.62	10.2	19.1	34.0	59.0	107	200	357	619	1.13K	2.10K	3.65K	6.34K	11.8K	22.0K	38.3K	66.5K	121K	226K	392K	681K	1.27M	2.37M	4.12M	7.15M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 ~ 9.76	±200	200	0.25	1.6	3.2	0.55	0.45	541-**(Value)**FCT-ND	1.14	3.07	7.06	541-**(Value)**FTR-ND	13.00/M	CRCW1206xxxxFNEA
1%, 1206, 1/4 Watt	1.00 ~ 9.76	±100	200	0.25	1.6	3.2	0.55	0.45	541-**(Value)**FFCT-ND	1.02	2.74	6.29	541-**(Value)**FFTR-ND	10.00/M	CRCW1206xxxxFKEA
1%, 1206, 1/4 Watt	1.00 ~ 10.0M	±100	200	0.25	1.6	3.2	0.55	0.45	541-**(Value)**FCT-ND	1.02	2.74	6.29	541-**(Value)**FTR-ND	10.00/M	CRCW1206xxxxFKEA

CRCW 1% 1/2W — 1210 Series

Resistor Values

1.00	15.4	24.9	40.2	61.9	100	162	261	422	649	1.05K	1.69K	2.74K	4.42K	6.81K	11.0K	17.8K	28.7K	46.4K	71.5K	115K	187K	301K	487K	750K
10.0	16.2	26.1	42.2	64.9	105	169	274	442	681	1.10K	1.78K	2.87K	4.64K	7.15K	11.5K	18.7K	30.1K	48.7K	75.0K	121K	196K	316K	499K	787K
10.5	16.9	27.4	44.2	68.1	110	178	287	464	715	1.15K	1.87K	3.01K	4.87K	7.50K	12.1K	19.6K	31.6K	49.9K	78.7K	127K	205K	332K	511K	825K
11.0	17.8	28.7	46.4	71.5	115	187	301	487	750	1.21K	1.96K	3.16K	4.99K	7.87K	12.7K	20.5K	33.2K	51.1K	82.5K	133K	215K	348K	536K	866K
11.5	18.7	30.1	48.7	75.0	121	196	316	499	787	1.27K	2.05K	3.32K	5.11K	8.25K	13.3K	21.5K	34.8K	53.6K	86.6K	140K	226K	365K	562K	909K
12.1	19.6	31.6	49.9	78.7	127	205	332	511	825	1.33K	2.15K	3.48K	5.36K	8.66K	14.0K	22.6K	36.5K	56.2K	90.9K	147K	237K	383K	590K	953K
12.7	20.5	33.2	51.1	82.5	133	215	348	536	866	1.40K	2.26K	3.65K	5.62K	9.09K	14.7K	23.7K	38.3K	59.0K	95.3K	154K	249K	402K	619K	1.0M
13.3	21.5	34.8	53.6	86.6	140	226	365	562	909	1.47K	2.37K	3.83K	5.90K	9.53K	15.4K	24.9K	40.2K	61.9K	100K	162K	261K	422K	649K	
14.0	22.6	36.5	56.2	90.9	147	237	383	590	953	1.54K	2.49K	4.02K	6.19K	10.0K	16.2K	26.1K	42.2K	64.9K	105K	169K	274K	442K	681K	
14.7	23.7	38.3	59.0	95.3	154	249	402	619	1.00K	1.62K	2.61K	4.22K	6.49K	10.5K	16.9K	27.4K	44.2K	68.1K	110K	178K	287K	464K	715K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 1210, 1/2 Watt	1.00	±200	200	0.33	2.5	3.2	0.55	0.45	541-1.00AACT-ND	3.51	9.44	21.68	541-1.00AATR-ND	65.00/M	CRCW12101R00FNEA
1%, 1210, 1/2 Watt	1.00	±100	200	0.33	2.5	3.2	0.55	0.45	541-1.00AAACT-ND	2.89	7.77	17.85	541-1.00AAATR-ND	51.00/M	CRCW12101R00FKEA
1%, 1210, 1/2 Watt	10.0 ~ 1.0M	±100	200	0.33	2.5	3.2	0.55	0.45	541-**(Value)**AACT-ND	2.89	7.77	17.85	541-**(Value)**AATR-ND	51.00/M	CRCW1210xxxxFKEA

(Continued)

Surface Mount, 1% Thick-Film Chip Resistors

CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 1% 3/4W — 2010 Series

Resistor Values

1.00	16.2	27.4	46.4	75.0	127	215	365	590	1.00K	1.69K	2.87K	4.87K	7.87K	13.3K	22.6K	38.3K	61.9K	105K	178K	301K	499K	825K
10.0	16.9	28.7	48.7	78.7	133	226	383	619	1.05K	1.78K	3.01K	4.99K	8.25K	14.0K	23.7K	40.2K	64.9K	110K	187K	316K	511K	866K
10.5	17.8	30.1	49.9	82.5	140	237	402	649	1.10K	1.87K	3.16K	5.11K	8.66K	14.7K	24.9K	42.2K	68.1K	115K	196K	332K	536K	909K
11.0	18.7	31.6	51.1	86.6	147	249	422	681	1.15K	1.96K	3.32K	5.36K	9.09K	15.4K	26.1K	44.2K	71.5K	121K	205K	348K	562K	953K
11.5	19.6	33.2	53.6	90.9	154	261	442	715	1.21K	2.05K	3.48K	5.62K	9.53K	16.2K	27.4K	46.4K	75.0K	127K	215K	365K	590K	1.0M
12.1	20.5	34.8	56.2	95.3	162	274	464	750	1.27K	2.15K	3.65K	5.90K	10.0K	16.9K	28.7K	48.7K	78.7K	133K	226K	383K	619K	
12.7	21.5	36.5	59.0	100	169	287	487	787	1.33K	2.26K	3.83K	6.19K	10.5K	17.8K	30.1K	49.9K	82.5K	140K	237K	402K	649K	
13.3	22.6	38.3	61.9	105	178	301	499	825	1.40K	2.37K	4.02K	6.49K	11.0K	18.7K	31.6K	51.1K	86.6K	147K	249K	422K	681K	
14.0	23.7	40.2	64.9	110	187	316	511	866	1.47K	2.49K	4.22K	6.81K	11.5K	19.6K	33.2K	53.6K	90.9K	154K	261K	442K	715K	
14.7	24.9	42.2	68.1	115	196	332	536	909	1.54K	2.61K	4.42K	7.15K	12.1K	20.5K	34.8K	56.2K	95.3K	162K	274K	464K	750K	
15.4	26.1	44.2	71.5	121	205	348	562	953	1.62K	2.74K	4.64K	7.50K	12.7K	21.5K	36.5K	59.0K	100K	169K	287K	487K	787K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 2010, 3/4 Watt	1.00	±200	400	0.5	2.5	5.0	0.6	0.6	541-1.00ACCT-ND	3.99	10.73	24.65	541-1.00ACTR-ND	75.00/M	CRCW20101R00FNEF
1%, 2010, 3/4 Watt	1.00	±100	400	0.5	2.5	5.0	0.6	0.6	541-1.00AACCT-ND	3.30	8.88	20.40	541-1.00AACTR-ND	60.00/M	CRCW20101R00FKEF
1%, 2010, 3/4 Watt	10.0 ~ 1.0M	±100	400	0.5	2.5	5.0	0.6	0.6	541-**(Value)**ACCT-ND	3.30	8.88	20.40	541-**(Value)**ACTR-ND	60.00/M	CRCW2010xxxxFKEF

CRCW 1% 1W — 2512 Series

Resistor Values

1.00	21.5	48.7	105	237	511	1.15K	2.61K	5.62K	12.7K	28.7K	61.9K	140K	316K	681K
10.0	22.6	49.9	110	249	536	1.21K	2.74K	5.90K	13.3K	30.1K	64.9K	147K	332K	715K
10.5	23.7	51.1	115	261	562	1.27K	2.87K	6.19K	14.0K	31.6K	68.1K	154K	348K	750K
11.0	24.9	53.6	121	274	590	1.33K	3.01K	6.49K	14.7K	33.2K	71.5K	162K	365K	787K
11.5	26.1	56.2	127	287	619	1.40K	3.16K	6.81K	15.4K	34.8K	75.0K	169K	383K	825K
12.1	27.4	59.0	133	301	649	1.47K	3.32K	7.15K	16.2K	36.5K	78.7K	178K	402K	866K
12.7	28.7	61.9	140	316	681	1.54K	3.48K	7.50K	16.9K	38.3K	82.5K	187K	422K	909K
13.3	30.1	64.9	147	332	715	1.62K	3.65K	7.87K	17.8K	40.2K	86.6K	196K	442K	953K
14.0	31.6	68.1	154	348	750	1.69K	3.83K	8.25K	18.7K	42.2K	90.9K	205K	464K	1.0M
14.7	33.2	71.5	162	365	787	1.78K	4.02K	8.66K	19.6K	44.2K	95.3K	215K	487K	
15.4	34.8	75.0	169	383	825	1.87K	4.22K	9.09K	20.5K	46.4K	100K	226K	499K	
16.2	36.5	78.7	178	402	866	1.96K	4.42K	9.53K	21.5K	48.7K	105K	237K	511K	
16.9	38.3	82.5	187	422	909	2.05K	4.64K	10.0K	22.6K	49.9K	110K	249K	536K	
17.8	40.2	86.6	196	442	953	2.15K	4.87K	10.5K	23.7K	51.1K	115K	261K	562K	
18.7	42.2	90.9	205	464	1.00K	2.26K	4.99K	11.0K	24.9K	53.6K	121K	274K	590K	
19.6	44.2	95.3	215	487	1.05K	2.37K	5.11K	11.5K	26.1K	56.2K	127K	287K	619K	
20.5	46.4	100	226	499	1.10K	2.49K	5.36K	12.1K	27.4K	59.0K	133K	301K	649K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 2,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1%, 2512, 1Watt	1.00	±200	500	1.0	3.15	6.3	0.6	0.6	541-1.00AFCT-ND	4.68	12.58	28.90	541-1.00AFTR-ND	90.00/M	CRCW25121R00FNEG
1%, 2512, 1Watt	1.00	±100	500	1.0	3.15	6.3	0.6	0.6	541-1.00AAFCT-ND	3.99	10.73	24.65	541-1.00AAFTR-ND	75.00/M	CRCW25121R00FKEG
1%, 2512, 1Watt	10.0 ~ 1.0M	±100	500	1.0	3.15	6.3	0.6	0.6	541-**(Value)**AFCT-ND	3.99	10.73	24.65	541-**(Value)**AFTR-ND	75.00/M	CRCW2512xxxxFKEG

Surface Mount, 5% Thick-Film Chip Resistors

CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

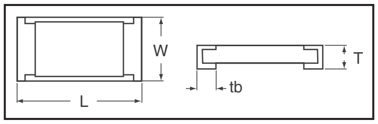

TEMPERATURE COEFFICIENT (ppm/K)																
Size Code	0201		0402		0603		0805		1206		1210		2010		2512	
Resistance Range (Ω)	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%
1 ~ 9.76	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—
1 ~ 10M	—	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200
10 ~ 1M	±200	±200	—	—	—	—	—	—	—	—	±100	—	±100	—	±100	—
10 ~ 10M	—	—	±100	—	±100	—	±100	—	±100	—	—	—	—	—	—	—

CRCW 5% 1/20W — 0201 Series

Resistor Values

0.0	22	47	68	82	220	470	680	1.0K	3.3K	5.6K	8.2K	22K	47K	68K	100K	330K	560K	820K
10	33	56	75	100	330	560	820	2.2K	4.7K	6.8K	10K	33K	56K	82K	220K	470K	680K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					W	L	T	tb		10	50	200			
0201, 1/20 Watt, 0Ω Jumper	0.0	0	30	0.05	0.3	0.6	0.43	0.28	541-0.0AGCT-ND	1.91	5.14	11.82	541-0.0AGTR-ND	27.00/M	CRCW0201xxxxZ0ED
5%, 0201, 1/20 Watt	10 ~ 820K	±200	30	0.05	0.3	0.6	0.43	0.28	541-**(Value)**AGCT-ND	1.91	5.14	11.82	541-**(Value)**AGTR-ND	27.00/M	CRCW0201xxxxJNED

CRCW 5% 1/16W — 0402 Series

Resistor Values

0.0	3.0	9.1	30	91	300	910	3.0K	9.1K	30K	91K	300K	910K	3.0M	9.1M
1.0	3.3	10	33	100	330	1.0K	3.3K	10K	33K	100K	330K	1.0M	3.3M	10M
1.1	3.6	11	36	110	360	1.1K	3.6K	11K	36K	110K	360K	1.1M	3.6M	
1.2	3.9	12	39	120	390	1.2K	3.9K	12K	39K	120K	390K	1.2M	3.9M	
1.3	4.3	13	43	130	430	1.3K	4.3K	13K	43K	130K	430K	1.3M	4.3M	
1.5	4.7	15	47	150	470	1.5K	4.7K	15K	47K	150K	470K	1.5M	4.7M	
1.6	5.1	16	51	160	510	1.6K	5.1K	16K	51K	160K	510K	1.6M	5.1M	
1.8	5.6	18	56	180	560	1.8K	5.6K	18K	56K	180K	560K	1.8M	5.6M	
2.0	6.2	20	62	200	620	2.0K	6.2K	20K	62K	200K	620K	2.0M	6.2M	
2.2	6.8	22	68	220	680	2.2K	6.8K	22K	68K	220K	680K	2.2M	6.8M	
2.4	7.5	24	75	240	750	2.4K	7.5K	24K	75K	240K	750K	2.4M	7.5M	
2.7	8.2	27	82	270	820	2.7K	8.2K	27K	82K	270K	820K	2.7M	8.2M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					W	L	T	tb		10	50	200			
0402, 1/16 Watt, 0Ω Jumper	0.0	0	50	0.063	0.5	1.0	0.6	0.4	541-0.0JCT-ND	.74	2.00	4.59	541-0.0JTR-ND	4.00/M	CRCW0402xxxxZ0ED
5%, 0402, 1/16 Watt	1.0 ~ 10M	±200	50	0.063	0.5	1.0	0.6	0.4	541-**(Value)**JCT-ND	.74	2.00	4.59	541-**(Value)**JTR-ND	4.00/M	CRCW0402xxxxJNED

(Continued)

Surface Mount, 5% Thick-Film Chip Resistors

CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 5% 1/10W — 0603 Series

Resistor Values

0.0	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	1.6M	4.3M
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	1.8M	4.7M
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	2.0M	5.1M
1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K	2.2M	5.6M
1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K	2.4M	6.2M
1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M	2.7M	6.8M
1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	1.1M	3.0M	7.5M
1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	1.2M	3.3M	8.2M
2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	1.3M	3.6M	9.1M
2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	1.5M	3.9M	10M

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
0603, 1/10 Watt, 0Ω Jumper	0.0	0	75	0.10	0.85	1.55	0.9	0.5	541-0.0GCT-ND	.74	2.00	4.59	541-0.0GTR-ND	4.00/M	CRCW0603xxxxZ0EA
5%, 0603, 1/10 Watt	1.0 ~ 10M	±200	75	0.10	0.85	1.55	0.9	0.5	541-**(Value)**GCT-ND	.74	2.00	4.59	541-**(Value)**GTR-ND	4.00/M	CRCW0603xxxxJNEA

CRCW 5% 1/8W — 0805 Series

Resistor Values

0.0	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M
1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
0805, 1/8 Watt, 0Ω Jumper	0.0	0	150	0.125	1.25	2.0	1.3	0.7	541-0.0ACT-ND	.77	2.07	4.76	541-0.0ATR-ND	5.00/M	CRCW0805xxxxZ0EA
5%, 0805, 1/8 Watt	1.0 ~ 10M	±200	150	0.125	1.25	2.0	1.3	0.7	541-**(Value)**ACT-ND	.77	2.07	4.76	541-**(Value)**ATR-ND	5.00/M	CRCW0805xxxxJNEA

CRCW 5% 1/4W — 1206 Series

Resistor Values

0.0	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M
1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1206, 1/4 Watt, 0Ω Jumper	0.0	0	200	0.25	1.6	3.2	1.7	0.9	541-0.0ECT-ND	.94	2.53	5.82	541-0.0ETR-ND	9.00/M	CRCW1206xxxxZ0EA
5%, 1206, 1/4 Watt	1.0 ~ 10M	±200	200	0.25	1.6	3.2	1.7	0.9	541-**(Value)**ECT-ND	.94	2.53	5.82	541-**(Value)**ETR-ND	9.00/M	CRCW1206xxxxJNEA

CRCW 5% 1/2W — 1210 Series

Resistor Values

0.0	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K
1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	10M
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					W	L	T	tb		10	50	200			
1210, 1/2 Watt, 0Ω Jumper	0.0	0	200	0.33	2.5	3.2	2.5	0.9	541-0.0VCT-ND	2.61	7.03	16.15	541-0.0VTR-ND	45.00/M	CRCW1210xxxxZ0EA
5%, 1210, 1/2 Watt	1.0 ~ 10M	±200	200	0.33	2.5	3.2	2.5	0.9	541-**(Value)**VCT-ND	2.61	7.03	16.15	541-**(Value)**VTR-ND	45.00/M	CRCW1210xxxxJNEA

CRCW 5% 3/4W — 2010 Series

Resistor Values

0.0	1.6	3.0	5.1	9.1	16.0	30.0	51.0	91.0	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K
1.0	1.8	3.3	5.6	10.0	18.0	33.0	56.0	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M
1.1	2.0	3.6	6.2	11.0	20.0	36.0	62.0	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	10M
1.2	2.2	3.9	6.8	12.0	22.0	39.0	68.0	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	
1.3	2.4	4.3	7.5	13.0	24.0	43.0	75.0	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	
1.5	2.7	4.7	8.2	15.0	27.0	47.0	82.0	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Vishay Part No.
					W	L	T	tb		10	50	200			
2010, 3/4 Watt, 0Ω Jumper	0.0	0	400	0.5	2.5	5.0	2.5	1.0	541-0.0WCT-ND	3.30	8.88	20.40	541-0.0WTR-ND	60.00/M	CRCW2010xxxxZ0EF
5%, 2010, 3/4 Watt	1.0 ~ 10M	±200	400	0.5	2.5	5.0	2.5	1.0	541-**(Value)**WCT-ND	3.30	8.88	20.40	541-**(Value)**WTR-ND	60.00/M	CRCW2010xxxxJNEF

CRCW 5% 1W — 2512 Series

Resistor Values

0.0	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K
1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	10M
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	

Description	Value Range (Ω)	TCR (ppm)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 2,000	Vishay Part No.
					W	L	T	tb		10	50	200			
2512, 1 Watt, 0Ω Jumper	0.0	0	500	1.0	3.15	6.3	3.2	1.0	541-0.0XCT-ND	3.99	10.73	24.65	541-0.0XTR-ND	75.00/M	CRCW2512xxxxZ0EG
5%, 2512, 1 Watt	1.0 ~ 10M	±200	500	1.0	3.15	6.3	3.2	1.0	541-**(Value)**XCT-ND	3.99	10.73	24.65	541-**(Value)**XTR-ND	75.00/M	CRCW2512xxxxJNEG

VISHAY Dale

NEW! Pulse Proof, 1% High Power Thick-Film Chip Resistors

CRCW Series 0402 / 0603 / 0805 / 1206 / 2010 / 2512

Features:
• Excellent pulse load capability • Enhanced power rating • Double side printed resistor element • Protective overglaze • Halogen-free according to IEC 61249-2-21 definition • AEC-Q200 qualified, rev. C compliant

Specifications:
• Insulation Resistance: >$10^9\Omega$ • Category Temperature Range: -55°C ~ 155°C

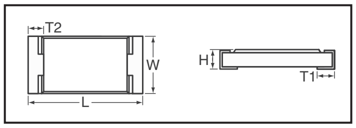

Size Code	Dimensions – mm				
	L	W	H	T1	T2
0402	1.0 ±0.05	0.5 ±0.05	0.3 ±0.1	0.25 ±0.1	0.2 ±0.1
0603	1.6 ±0.1	0.85 ±0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2
0805	2.0 ±0.15	1.25 ±0.15	0.50 ±0.1	0.4 ±0.2	0.35 ±0.2
1206	3.1 ±0.2	1.6 ±0.15	0.50 ±0.15	0.5 ±0.2	0.45 ±0.2
2010	5.0 ±0.15	2.5 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2
2512	6.3 ±0.2	3.15 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2

CRCW 1% 1/8W — 0402 Series
Resistor Values

0.0 1.00 10.0 22.0 22.1 33.0 33.2 49.9 75.0 100 499 1.00K 1.50K 2.00K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 47.0K 49.9K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					10	50	200			
0402, 1/8 Watt, 0.0Ω Jumper	0.0	50	0.125	541-0.0YBCT-ND	1.54	4.13	9.49	541-0.0YBTR-ND	19.00/M	CRCW04020000Z0EDHP
1%, 0402, 1/8 Watt	1.00	50	0.125	541-1.00YCT-ND	1.72	4.63	10.63	541-1.00YTR-ND	23.00/M	CRCW04021R00FKEDHP
1%, 0402, 1/8 Watt	10.0 ~ 1.00M	50	0.125	541-**(Value)**YCT-ND	1.65	4.44	10.20	541-**(Value)**YTR-ND	22.00/M	CRCW0402xxxxFKEDHP

CRCW 1% 1/4W — 0603 Series
Resistor Values

0.0 1.00 10.0 33.0 33.2 49.9 75.0 100 499 1.00K 1.50K 2.00K 4.22K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 30.9K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
0603, 1/4 Watt, 0.0Ω Jumper	0.0	75	0.25	541-0.0SBCT-ND	1.88	5.06	11.62	541-0.0SBTR-ND	29.00/M	CRCW06030000Z0EAHP
1%, 0603, 1/4 Watt	1.00	75	0.25	541-1.00SCT-ND	2.02	5.43	12.47	541-1.00STR-ND	32.00/M	CRCW06031R00FKEAHP
1%, 0603, 1/4 Watt	10.0 ~ 1.00M	75	0.25	541-**(Value)**SCT-ND	1.99	5.37	12.33	541-**(Value)**STR-ND	32.00/M	CRCW0603xxxxFKEAHP

CRCW 1% 1/3W — 0805 Series
Resistor Values

0.0 1.00 10.0 33.2 49.9 51.0 75.0 100 150 470 499 1.00K 1.50K 2.00K 2.20K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 27.0K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
0805, 1/3 Watt, 0.0Ω Jumper	0.0	150	0.33	541-0.0TBCT-ND	2.52	6.78	15.58	541-0.0TBTR-ND	43.00/M	CRCW08050000Z0EAHP
1%, 0805, 1/3 Watt	1.00	150	0.33	541-1.00TCT-ND	2.73	7.34	16.86	541-1.00TTR-ND	47.00/M	CRCW08051R00FKEAHP
1%, 0805, 1/3 Watt	10.0 ~ 1.00M	150	0.33	541-**(Value)**TCT-ND	2.70	7.28	16.72	541-**(Value)**TTR-ND	47.00/M	CRCW0805xxxxFKEAHP

CRCW 1% 1/2W — 1206 Series
Resistor Values

0.0 1.00 10.0 33.2 49.9 75.0 100 150 200 220 470 680 750 1.00K 1.20K 1.30K 1.50K 2.00K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
1206, 1/2 Watt, 0.0Ω Jumper	0.0	200	0.5	541-0.0UBCT-ND	4.54	12.21	28.05	541-0.0UBTR-ND	87.00/M	CRCW12060000Z0EAHP
1%, 1206, 1/2 Watt	1.00	200	0.5	541-1.00UCT-ND	5.39	14.49	33.29	541-1.00UTR-ND	106.00/M	CRCW12061R00FKEAHP
1%, 1206, 1/2 Watt	10.0 ~ 1.00M	200	0.5	541-**(Value)**UCT-ND	5.11	13.75	31.59	541-**(Value)**UTR-ND	100.00/M	CRCW1206xxxxFKEAHP

CRCW 1% 1W — 2010 Series
Resistor Values

0.0 1.00 3.30 10.0 33.2 47.0 49.9 75.0 100 220 402 430 499 510 560 620 1.00K 1.20K 1.50K 1.87K 2.00K 2.70K 4.70K 10.0K 15.0K 100K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Vishay Part No.
					10	50	200			
2010, 1 Watt, 0.0Ω Jumper	0.0	400	1.0	541-0.0PBCT-ND	9.90	26.64	61.20	541-0.0PBTR-ND	204.00/M	CRCW20100000Z0EFHP
1%, 2010, 1 Watt	1.00 ~ 3.30	400	1.0	541-**(Value)**PCT-ND	13.18	35.46	81.46	541-**(Value)**PTR-ND	275.00/M	CRCW2010xxxxFKEFHP
1%, 2010, 1 Watt	10.0 ~ 100K	400	1.0	541-**(Value)**PCT-ND	13.02	35.03	80.47	541-**(Value)**PTR-ND	272.00/M	CRCW2010xxxxFKEFHP

CRCW 1% 1.5W — 2512 Series
Resistor Values

0.0 1.00 3.30 10.0 13.0 30.1 33.0 47.0 49.9 68.0 75.0 100 121 150 200 499 750 1.00K 1.21K 1.50K 2.00K 4.70K 10.0K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 2,000	Vishay Part No.
					10	50	200			
2512, 1.5 Watt, 0.0Ω Jumper	0.0	500	1.5	541-0.0RBCT-ND	15.81	42.55	97.75	541-0.0RBTR-ND	333.00/M	CRCW25120000Z0EGHP
1%, 2512, 1.5 Watt	1.00 ~ 3.30	500	1.5	541-**(Value)**RCT-ND	21.93	59.02	135.58	541-**(Value)**RTR-ND	467.00/M	CRCW2512xxxxFKEGHP
1%, 2512, 1.5 Watt	10.0 ~ 10.0K	500	1.5	541-**(Value)**RCT-ND	20.63	55.50	127.50	541-**(Value)**RTR-ND	438.00/M	CRCW2512xxxxFKEGHP

NEW! Pulse Proof, 5% High Power Thick-Film Chip Resistors

CRCW Series 0402 / 0603 / 0805 / 1206 / 2010 / 2512

Features: • Excellent pulse load capability • Enhanced power rating • Double side printed resistor element • Protective overglaze • Halogen-free according to IEC 61249-2-21 definition • AEC-Q200 qualified, rev. C compliant

Specifications: • Insulation Resistance: >$10^9\Omega$ • Category Temperature Range: -55°C ~ 155°C

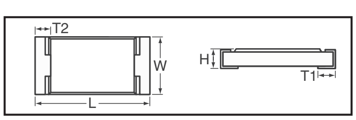

Size Code	Dimensions – mm				
	L	W	H	T1	T2
0402	1.0 ±0.05	0.5 ±0.05	0.3 ±0.1	0.25 ±0.1	0.2 ±0.1
0603	1.6 ±0.1	0.85 ±0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2
0805	2.0 ±0.15	1.25 ±0.15	0.50 ±0.1	0.4 ±0.2	0.35 ±0.2
1206	3.1 ±0.2	1.6 ±0.15	0.50 ±0.15	0.5 ±0.2	0.45 ±0.2
2010	5.0 ±0.15	2.5 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2
2512	6.3 ±0.2	3.15 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2

CRCW 5% 1/8W — 0402 Series
Resistor Values

1.0 2.2 4.7 10 22 47 100 220 470 1.0K 2.2K 4.7K 10K 22K 47K 100K 220K 470K 1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					10	50	200			
5%, 0402, 1/8 Watt	1.0 ~ 4.7	50	0.125	541-**(Value)**YACT-ND	1.63	4.38	10.06	541-**(Value)**YATR-ND	21.00/M	CRCW0402xxxxJNEDHP
5%, 0402, 1/8 Watt	10 ~ 1.0M	50	0.125	541-**(Value)**YACT-ND	1.54	4.13	9.49	541-**(Value)**YATR-ND	19.00/M	CRCW0402xxxxJNEDHP

(Continued)

VISHAY Dale **NEW!** Pulse Proof, 5% High Power Thick-Film Chip Resistors

CRCW Series 0402 / 0603 / 0805 / 1206 / 2010 / 2512 *(Cont.)*

CRCW 5% 1/4W — 0603 Series

Resistor Values

1.0
2.2
4.7
10
22
47
100
220
470
1.0K
2.2K
4.7K
10K
22K
47K
100K
220K
470K
1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
5%, 0603, 1/4 Watt	1.0 ~ 4.7	75	0.25	541-**(Value)**SACT-ND	1.99	5.37	12.33	541-**(Value)**SATR-ND	32.00/M	CRCW0603xxxxJNEAHP
5%, 0603, 1/4 Watt	10 ~ 1.0M	75	0.25	541-**(Value)**SACT-ND	1.88	5.06	11.62	541-**(Value)**SATR-ND	29.00/M	CRCW0603xxxxJNEAHP

CRCW 5% 1/3W — 0805 Series

Resistor Values

1.0
2.2
4.7
10
22
47
100
220
470
1.0K
2.2K
4.7K
10K
22K
47K
100K
220K
470K
1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
5%, 0805, 1/3 Watt	1.0 ~ 4.7	150	0.33	541-**(Value)**TACT-ND	2.70	7.28	16.72	541-**(Value)**TATR-ND	47.00/M	CRCW0805xxxxJNEAHP
5%, 0805, 1/3 Watt	10 ~ 1.0M	150	0.33	541-**(Value)**TACT-ND	2.52	6.78	15.58	541-**(Value)**TATR-ND	43.00/M	CRCW0805xxxxJNEAHP

CRCW 5% 1/2W — 1206 Series

Resistor Values

1.0
2.2
4.7
10
22
47
100
220
470
1.0K
2.2K
4.7K
10K
22K
47K
100K
220K
470K
1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
5%, 1206, 1/2 Watt	1.0 ~ 4.7	200	0.5	541-**(Value)**UACT-ND	5.04	13.57	31.17	541-**(Value)**UATR-ND	98.00/M	CRCW1206xxxxJNEAHP
5%, 1206, 1/2 Watt	10 ~ 1.0M	200	0.5	541-**(Value)**UACT-ND	4.54	12.21	28.05	541-**(Value)**UATR-ND	87.00/M	CRCW1206xxxxJNEAHP

CRCW 5% 1W — 2010 Series

Resistor Values

1.0
2.2
4.7
10
22
47
100
220
470
1.0K
2.2K
4.7K
10K
22K
47K
100K
220K
470K
1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 4,000	Vishay Part No.
5%, 2010, 1 Watt	1.0 ~ 4.7	400	1.0	541-**(Value)**PACT-ND	12.35	33.24	76.36	541-**(Value)**PATR-ND	257.00/M	CRCW2010xxxxJNEFHP
5%, 2010, 1 Watt	10 ~ 1.0M	400	1.0	541-**(Value)**PACT-ND	9.90	26.64	61.20	541-**(Value)**PATR-ND	204.00/M	CRCW2010xxxxJNEFHP

CRCW 5% 1.5W — 2512 Series

Resistor Values

1.0
2.2
4.7
10
22
47
100
220
470
1.0K
2.2K
4.7K
10K
22K
47K
100K
220K
470K
1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Pricing 2,000	Vishay Part No.
5%, 2512, 1.5 Watt	1.0 ~ 4.7	500	1.5	541-**(Value)**RACT-ND	17.99	48.41	111.21	541-**(Value)**RATR-ND	380.00/M	CRCW2512xxxxJNEGHP
5%, 2512, 1.5 Watt	10 ~ 1.0M	500	1.5	541-**(Value)**RACT-ND	16.68	44.89	103.13	541-**(Value)**RATR-ND	352.00/M	CRCW2512xxxxJNEGHP

NEW! Wraparound, 1% Extremely Low Value Thick-Film Chip Resistors

RCWE Series 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

Features:

- Suitable for current sensing and shunts
- Metal glaze on high quality ceramic
- Protective overglaze
- Halogen-free according to IEC 61249-2-21 definition

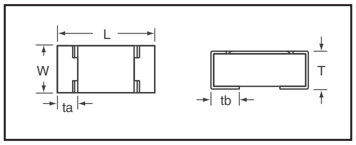

Size Code	Dimensions – mm L	W	T	ta	tb
0402	1.03 ±0.05	0.5 ±0.05	0.4 ±0.1	0.3 ±0.15	0.2 ±0.1
0603	1.6 ±0.1	0.85 ±0.1	0.5 ±0.1	0.3 ±0.2	0.3 ±0.2
0805	2.0 ±0.15	1.3 ±0.1	0.55 ±0.1	0.4 ±0.2	0.35 ±0.2
1206	3.1 ±0.15	1.6 ±0.15	0.6 ±0.1	0.45 ±0.2	0.45 ±0.2
1210	3.1 ±0.2	2.5 ±0.2	0.6 ±0.1	0.4 ±0.2	0.4 ±0.2
2010	5.0 ±0.2	2.5 ±0.15	0.6 ±0.1	0.7 ±0.3	0.6 ±0.2
2512	6.3 ±0.2	3.15 ±0.15	0.6 ±0.1	0.8 ±0.3	0.6 ±0.2

RCWE 1% 1/8W — 0402 Series, RCWE 1% 1/5W — 0603 Series

Resistor Values

.11
.12
.13
.15
.16
.18
.2
.22
.24
.27
.3
.33
.36
.39
.43
.47
.51
.56
.62
.68
.75
.82
.91

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Vishay Part No.
1%, 0402, 1/8 Watt	.11 ~ .18	±200	0.125	RCWE**(Value)**ACT-ND	17.05	45.88	105.40	RCWE**(Value)**ATR-ND	10,000	324.00/M	RCWE0402xxxxFNEA
1%, 0402, 1/8 Watt	.2 ~ .91	±100	0.125	RCWE**(Value)**BCT-ND	17.05	45.88	105.40	RCWE**(Value)**BTR-ND	10,000	324.00/M	RCWE0402xxxxFKEA
1%, 0603, 1/5 Watt	.11 ~ .91	±100	0.2	RCWE**(Value)**CCT-ND	17.05	45.88	105.40	RCWE**(Value)**CTR-ND	5,000	324.00/M	RCWE0603xxxxFKEA

(Continued)

NEW! Wraparound, 1% Extremely Low Value Thick-Film Chip Resistors

RCWE Series 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

RCWE 1% 1/4W — 0805 Series, RCWE 1% 1/2W — 1206 Series, RCWE 1% 1W — 1210 Series

Resistor Values

.22	.3	.39	.51	.68	.91
.24	.33	.43	.56	.75	
.27	.36	.47	.62	.82	

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
1%, 0805, 1/4 Watt	.22 ~ .91	±100	0.25	RCWE**(Value)**DCT-ND	17.05	45.88	105.40	RCWE**(Value)**DTR-ND	360.00/M	RCWE0805xxxxFKEA
1%, 1206, 1/2 Watt	.22 ~ .91	±100	0.5	RCWE**(Value)**ECT-ND	17.74	47.73	109.65	RCWE**(Value)**ETR-ND	375.00/M	RCWE1206xxxxFKEA
1%, 1210, 1 Watt	.22 ~ .91	±100	1.0	RCWE**(Value)**FCT-ND	17.74	47.73	109.65	RCWE**(Value)**FTR-ND	375.00/M	RCWE1210xxxxFKEA

RCWE 1% 1W — 2010 Series, RCWE 1% 2W — 2512 Series

Resistor Values

.51	.56	.62	.68	.75	.82	.91

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Vishay Part No.
					10	50	200		Qty.	Pricing	
1%, 2010, 1 Watt	.51 ~ .91	±100	1.0	RCWE**(Value)**GCT-ND	18.43	49.58	113.90	RCWE**(Value)**GTR-ND	4,000	390.00/M	RCWE2010xxxxFKEA
1%, 2512, 2 Watt	.51 ~ .91	±100	2.0	RCWE**(Value)**HCT-ND	18.43	49.58	113.90	RCWE**(Value)**HTR-ND	2,000	390.00/M	RCWE2512xxxxFKEA

NEW! Wraparound, 5% Low Value Thick-Film Chip Resistors

RCWL Series 0402 / 0603 / 0805 / 1206 / 1210 / 1218 / 2010 / 2512

Features:

- Suitable for current sensing and shunts
- Metal glaze on high quality ceramic
- Protective overglaze
- Halogen-free according to IEC 61249-2-21 definition

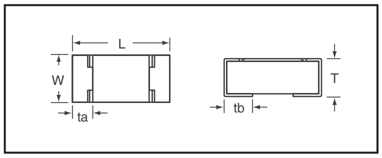

Size Code	Dimensions – mm				
	L	W	T	ta	tb
0402	1.0 ±0.05	0.5 ±0.05	0.35 ±0.05	0.25 ±0.05	0.2 ±0.1
0603	1.55 +0.10/-0.05	0.85 ±0.1	0.45 ±0.05	0.3 ±0.2	0.3 ±0.2
0805	2.0 +0.20/-0.10	1.25 ±0.15	0.45 ±0.05	0.3 +0.20/-0.10	0.3 ±0.2
1206	3.2 +0.10/-0.20	1.6 ±0.15	0.55 ±0.05	0.45 ±0.2	0.4 ±0.2
1210	3.2 ±0.2	2.5 ±0.2	0.55 ±0.05	0.45 ±0.2	0.4 ±0.2
1218	3.2 +0.10/-0.20	4.6 ±0.15	0.55 ±0.05	0.45 ±0.2	0.4 ±0.2
2010	5.0 ±0.15	2.5 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2
2512	6.3 ±0.2	3.15 ±0.15	0.6 ±0.1	0.6 ±0.2	0.6 ±0.2

RCWL 5% 1/16W — 0402 Series

Resistor Values

.22	.27	.33	.39	.47	.56	.68	.82
.24	.3	.36	.43	.51	.62	.75	.91

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					10	50	200			
5%, 0402, 1/16 Watt	.22 ~ .43	±600	0.063	RCWL**(Value)**ACT-ND	13.61	36.63	84.15	RCWL**(Value)**ATR-ND	257.00/M	RCWL0402xxxxJTEA
5%, 0402, 1/16 Watt	.47 ~ .91	±400	0.063	RCWL**(Value)**BCT-ND	13.61	36.63	84.15	RCWL**(Value)**BTR-ND	257.00/M	RCWL0402xxxxJQEA

RCWL 5% 1/10W — 0603 Series, RCWL 5% 1/8W — 0805 Series

Resistor Values

.11	.13	.16	.2	.24	.3	.36	.43	.51	.62	.75	.91
.12	.15	.18	.22	.27	.33	.39	.47	.56	.68	.82	

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
5%, 0603, 1/10 Watt	.11 ~ .43	±400	0.1	RCWL**(Value)**CCT-ND	13.61	36.63	84.15	RCWL**(Value)**CTR-ND	285.00/M	RCWL0603xxxxJQEA
5%, 0603, 1/10 Watt	.47 ~ .91	±200	0.1	RCWL**(Value)**DCT-ND	13.61	36.63	84.15	RCWL**(Value)**DTR-ND	285.00/M	RCWL0603xxxxJNEA
5%, 0805, 1/8 Watt	.11 ~ .43	±300	0.125	RCWL**(Value)**ECT-ND	13.61	36.63	84.15	RCWL**(Value)**ETR-ND	285.00/M	RCWL0805xxxxJMEA
5%, 0805, 1/8 Watt	.47 ~ .91	±200	0.125	RCWL**(Value)**FCT-ND	13.61	36.63	84.15	RCWL**(Value)**FTR-ND	285.00/M	RCWL0805xxxxJNEA

RCWL 5% 1/4W — 1206 Series

Resistor Values

.22	.27	.33	.39	.47	.56	.68	.82
.24	.3	.36	.43	.51	.62	.75	.91

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
5%, 1206, 1/4 Watt	.22 ~ .43	±300	0.25	RCWL**(Value)**GCT-ND	14.30	38.48	88.40	RCWL**(Value)**GTR-ND	300.00/M	RCWL1206xxxxJMEA
5%, 1206, 1/4 Watt	.47 ~ .91	±200	0.25	RCWL**(Value)**HCT-ND	14.30	38.48	88.40	RCWL**(Value)**HTR-ND	300.00/M	RCWL1206xxxxJNEA

RCWL 5% 1/3W — 1210 Series, RCWL 5% 1W — 1218 Series

Resistor Values

.11	.13	.16	.2	.24	.3	.36	.43	.51	.62	.75	.91
.12	.15	.18	.22	.27	.33	.39	.47	.56	.68	.82	

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Vishay Part No.
					10	50	200		Qty.	Pricing	
5%, 1210, 1/3 Watt	.11 ~ .91	±200	0.33	RCWL**(Value)**LCT-ND	14.30	38.48	88.40	RCWL**(Value)**LTR-ND	5,000	300.00/M	RCWL1210xxxxJNEA
5%, 1218, 1 Watt	.11 ~ .91	±200	1.0	RCWL**(Value)**ICT-ND	14.30	38.48	88.40	RCWL**(Value)**ITR-ND	4,000	300.00/M	RCWL1218xxxxJNEA

RCWL 5% 1/2W — 2010 Series, RCWL 5% 1W — 2512 Series

Resistor Values

.51	.56	.62	.68	.75	.82	.91

Description	Value Range (Ω)	TCR (ppm°C)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Vishay Part No.
					10	50	200		Qty.	Pricing	
5%, 2010, 1/2 Watt	.51 ~ .91	±200	0.5	RCWL**(Value)**JCT-ND	14.30	38.48	88.40	RCWL**(Value)**JTR-ND	4,000	300.00/M	RCWL2010xxxxJNEA
5%, 2512, 1 Watt	.51 ~ .91	±200	1.0	RCWL**(Value)**MCT-ND	14.30	38.48	88.40	RCWL**(Value)**MTR-ND	2,000	300.00/M	RCWL2512xxxxJNEA

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors

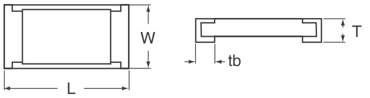

RoHS Compliant Parts Available
(Parts other than indicated may be available as RoHS compliant)

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MCR006 1%, 1/20 Watt — 0201 Series Resistor Values – *RoHS Compliant*

10	24	43	73.2	150	510	1.0K	2.0K	3.0K	4.99K	7.5K	12K	24.9K	40.2K	51K	91K	162K	280K	470K	1.0M
12	24.3	47	75	165	680	1.1K	2.1K	3.3K	5.1K	8.2K	12.1K	27.4K	43.2K	56K	100K	180K	300K	487K	1.2M
15	25.5	49.9	82	200	750	1.2K	2.2K	3.9K	5.6K	8.25K	15K	29.4K	44.2K	68K	120K	220K	324K	510K	1.5M
18	27	51	100	300	820	1.3K	2.7K	4.3K	5.62K	10K	18K	30K	45.3K	69.8K	121K	232K	360K	680K	2.0M
20	33	56	110	430	910	1.5K	2.87K	4.7K	6.2K	11.3K	22K	30.1K	47K	80.6K	140K	240K	402K	750K	2.2M
22	39	68	130	470	976	1.8K	2.94K	4.75K	6.8K	11.5K	24K	33.2K	47.5K	82.5K	150K	255K	430K	910K	10M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 15,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0201, 1/20 Watt	10 ~ 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)ABCT-ND	1.18	3.18	7.31	RHM(Value)ABTR-ND	12.00/M	MCR006YZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR006 5%, 1/20 Watt — 0201 Series Resistor Values – *RoHS Compliant*

0.0	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M
5.6	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M
10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 15,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0201, 1/20 Watt	0.0 ~ 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)AGCT-ND	1.02	2.76	6.33	RHM(Value)AGTR-ND	9.00/M	MCR006YZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR01 1%, 1/16 Watt — 0402 Series Resistor Values

1.00◆	36.0◆	75.0◆	300◆	510◆	1.10K◆	2.21K◆	4.30K◆	6.80K◆	10.0K◆	14.0K◆	21.0K◆	30.1K◆	43.0K◆	53.6K	80.6K◆	100K◆	187K	270K◆	499K◆
4.70◆	39.0◆	100◆	301◆	511◆	1.20K◆	2.40K◆	4.64K◆	7.50K◆	10.7K	15.0K◆	22.0K◆	33.0K◆	45.3K	56.0K◆	82.0K◆	110K◆	200K◆	300K◆	510K◆
10.0◆	49.9◆	120◆	330◆	560◆	1.21K◆	2.70K◆	5.10K◆	7.87K	11.0K◆	16.0K◆	22.1K◆	35.7K	46.4K	60.4K◆	82.5K◆	120K◆	210K	301K◆	560K◆
22.0◆	51.0◆	150◆	332◆	620◆	1.50K◆	3.01K◆	5.36K	8.06K◆	11.3K◆	16.2K◆	24.9K◆	36.0K◆	47.0K◆	61.9K	88.7K	121K◆	220K◆	332K◆	562K
24.9◆	56.0◆	160	430◆	680◆	1.80K◆	3.30K◆	5.49K◆	8.20K◆	11.5K◆	17.4K◆	26.1K◆	39.0K◆	47.5K◆	62.0K◆	90.9K	124K◆	226K◆	360K◆	620K◆
26.1	62.0◆	180◆	464	715	1.82K◆	3.74K◆	5.62K◆	8.87K	12.0K◆	18.0K◆	27.0K◆	39.2K◆	49.9K◆	64.9K	91.0K◆	127K◆	240K◆	430K◆	649K◆
28.0◆	68.0◆	220◆	470◆	910◆	1.96K◆	3.90K◆	6.20K◆	9.10K◆	12.1K◆	19.1K◆	28.0K	40.2K◆	51.0K◆	68.0K◆	95.3K	150K◆	249K◆	442K◆	768K
33.0◆	68.1	280◆	499◆	1.00K◆	2.20K◆	3.92K◆	6.49K◆	9.53K◆	13.0K◆	20.0K◆	30.0K◆	42.2K	51.1K◆	78.7K	97.6K◆	180K◆	261K	470K◆	1.00M◆

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0402, 1/16 Watt	1.00 ~ 4.70	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.98	2.63	6.04	RHM(Value)LTR-ND	8.40/M	MCR01MZPFLxxxx
1%, 0402, 1/16 Watt	10.0 ~ 1.00M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.82	2.21	5.07	RHM(Value)LTR-ND	5.30/M	MCR01MZPFxxxx

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR01 5%, 1/16 Watt — 0402 Series Resistor Values

0.0◆	3.0◆	5.1◆	15◆	30◆	47◆	82◆	180◆	300◆	470◆	820◆	1.8K◆	3.0K◆	4.7K◆	7.5K◆	15K◆	30K◆	56K◆	110K	220K◆	470K◆	3.0M◆
1.0◆	3.3◆	5.6◆	18◆	33◆	51◆	91	200◆	330◆	510◆	910◆	2.0K◆	3.3K◆	5.1K◆	8.2K◆	18K◆	33K◆	62K	120K◆	270K◆	560K	3.3M
1.1	3.9	8.2	20◆	36◆	56◆	100◆	220◆	360◆	560◆	1.0K◆	2.2K◆	3.6K	5.6K◆	10K◆	22K◆	39K◆	68K◆	150K◆	300K	680K	
2.0◆	4.3	10◆	22◆	39◆	68◆	150◆	240◆	390◆	620	1.2K◆	2.4K◆	3.9K◆	6.2K	11K	24K◆	43K	82K◆	180K◆	330K◆	1.0M◆	
2.2◆	4.7◆	12◆	27◆	43	75◆	160◆	270◆	430	680◆	1.5K◆	2.7K◆	4.3K	6.8K◆	12K◆	27K◆	47K◆	100K◆	200K◆	430K	1.5M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0402, 1/16 Watt	0.0 ~ 3.3M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)JCT-ND	.74	1.99	4.57	RHM(Value)JTR-ND	3.73/M	MCR01MZPJxxxx

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR03 1%, 1/10 Watt — 0603 Series Resistor Values

10.0◆	17.4◆	28.7	46.4	75.0◆	130◆	221◆	360◆	576◆	953◆	1.65K◆	2.74K◆	4.42K◆	7.15K◆	12.1K◆	21.0K◆	34.0K◆	54.9K◆	91.0K◆	160K◆	267K◆	430K◆	681K◆
10.2	17.8◆	29.4	47.0◆	76.8	133◆	226◆	365◆	590◆	976◆	1.69K◆	2.80K◆	4.53K◆	7.32K◆	12.4K◆	21.5K◆	34.8K◆	56.2K◆	93.1K◆	162K◆	270K◆	432K◆	698K◆
10.5	18.0◆	30.0◆	47.5◆	78.7◆	137◆	232◆	374◆	604◆	1.00K◆	1.74K◆	2.87K◆	4.64K◆	7.50K◆	12.7K◆	22.0K◆	35.7K◆	57.6K◆	95.3K◆	165K◆	274K◆	442K◆	715K◆
10.7	18.2◆	30.1◆	48.7◆	80.6	140◆	237◆	383◆	619◆	1.02K◆	1.78K◆	2.94K◆	4.70K◆	7.68K◆	13.0K◆	22.1K◆	36.0K◆	59.0K◆	97.6K◆	169K◆	280K◆	453K◆	732K
11.0◆	18.7	30.9	49.9◆	82.0◆	143◆	240◆	390◆	620◆	1.05K◆	1.80K◆	3.00K◆	4.75K◆	7.87K◆	13.3K◆	22.6K◆	36.5K◆	60.4K◆	100K◆	174K◆	287K◆	464K	750K
11.3	19.1	31.6◆	51.0◆	82.5◆	147	243◆	392◆	634◆	1.07K◆	1.82K◆	3.01K◆	4.87K◆	8.06K◆	13.7K◆	23.2K◆	37.4K◆	61.9K◆	102K◆	178K◆	294K◆	470K◆	768K
11.5	19.6	32.4	51.1◆	84.5◆	150◆	249◆	402◆	649◆	1.10K◆	1.87K◆	3.09K◆	4.99K◆	8.20K◆	14.0K◆	23.7K◆	38.3K◆	62.0K◆	105K◆	180K◆	300K◆	475K◆	787K
11.8	20.0◆	33.0◆	52.3◆	88.7	154	255◆	412◆	665◆	1.13K◆	1.91K◆	3.16K◆	5.10K◆	8.25K◆	14.3K◆	24.0K◆	39.0K◆	63.4K◆	107K◆	182K◆	301K◆	487K	806K
12.0◆	20.5	33.2◆	53.6◆	90.9◆	158◆	261◆	422◆	680◆	1.15K◆	1.96K◆	3.24K◆	5.11K◆	8.45K◆	14.7K◆	24.3K◆	39.2K◆	64.9K◆	110K◆	187K◆	309K◆	499K◆	820K◆
12.1◆	21.0	34.0	54.9◆	91.0◆	160◆	267◆	430◆	681◆	1.18K◆	2.00K◆	3.30K◆	5.23K◆	8.66K◆	15.0K◆	24.9K◆	40.2K◆	66.5K◆	113K◆	191K◆	316K◆	510K◆	825K◆
12.4◆	21.5	34.8◆	56.0◆	93.1	162◆	270◆	432◆	698◆	1.20K◆	2.05K◆	3.32K◆	5.36K◆	8.87K◆	15.4K◆	25.5K◆	41.2K◆	68.0K◆	115K◆	196K◆	324K◆	511K	845K
12.7	22.0◆	35.7◆	56.2◆	95.3◆	165◆	274◆	442◆	715◆	1.21K◆	2.10K◆	3.40K◆	5.49K◆	9.09K◆	15.8K◆	26.1K◆	42.2K◆	68.1K◆	118K◆	200K◆	330K◆	523K◆	866K◆
13.0	22.1◆	36.0◆	57.6◆	97.6	169◆	280◆	453◆	732◆	1.24K◆	2.15K◆	3.48K◆	5.60K◆	9.10K◆	16.0K◆	26.7K◆	43.0K◆	69.8K◆	120K◆	205K◆	332K◆	536K◆	887K◆
13.3	22.6◆	36.5◆	59.0	100◆	174◆	287◆	464◆	750◆	1.27K◆	2.20K◆	3.57K◆	5.62K◆	9.31K◆	16.2K◆	27.0K◆	43.2K◆	71.5K◆	121K◆	210K◆	340K◆	549K◆	909K
13.7	23.2◆	37.4◆	60.4◆	102◆	178◆	294◆	470◆	768	1.30K◆	2.21K◆	3.60K◆	5.76K◆	9.53K◆	16.5K◆	27.4K◆	44.2K◆	73.2K◆	124K◆	215K◆	348K◆	560K◆	910K◆
14.0	23.7	38.3◆	61.9◆	105◆	180◆	300◆	475◆	787◆	1.33K◆	2.26K◆	3.65K◆	5.90K◆	9.76K◆	16.9K◆	28.0K◆	45.3K◆	75.0K◆	127K◆	220K◆	357K◆	562K◆	931K
14.3◆	24.0◆	39.0◆	62.0◆	107◆	182◆	301◆	487◆	806◆	1.37K◆	2.32K◆	3.74K◆	6.04K◆	10.0K◆	17.4K◆	28.7K◆	46.4K◆	76.8K◆	130K◆	221K◆	360K◆	576K◆	953K
14.7	24.3◆	39.2◆	63.4	110◆	187◆	309◆	499◆	820◆	1.40K◆	2.37K◆	3.83K◆	6.19K◆	10.2K◆	17.8K◆	29.4K◆	47.0K◆	78.7K◆	133K◆	226K◆	365K◆	590K◆	976K
15.0◆	24.9◆	40.2◆	64.9◆	113◆	191◆	316	510◆	825◆	1.43K◆	2.40K◆	3.90K◆	6.20K◆	10.5K◆	18.0K◆	30.0K◆	47.5K◆	80.6K◆	137K◆	232K◆	374K◆	604K◆	1.00M◆
15.4	25.5◆	41.2	66.5◆	115◆	196	324◆	511◆	845◆	1.47K◆	2.43K◆	3.92K◆	6.34K◆	10.7K◆	18.2K◆	30.1K◆	48.7K◆	82.0K◆	140K◆	237K◆	383K◆	619K◆	1.20M◆
15.8	26.1	42.2	68.0◆	118	200◆	330◆	523◆	866◆	1.50K◆	2.49K◆	4.02K◆	6.49K◆	11.0K◆	18.7K◆	30.9K◆	49.9K◆	82.5K◆	143K◆	240K◆	390K◆	620K◆	1.21M◆
16.0◆	26.7	43.0◆	68.1◆	120◆	205◆	332◆	536◆	887◆	1.54K◆	2.55K◆	4.12K◆	6.65K◆	11.3K◆	19.1K◆	31.6K◆	51.0K◆	84.5K◆	147K◆	243K◆	392K◆	634K	1.50M◆
16.2	27.0◆	43.2◆	69.8◆	121◆	210◆	340◆	549◆	909◆	1.58K◆	2.61K◆	4.22K◆	6.80K◆	11.5K◆	19.6K◆	32.4K◆	51.1K◆	86.6K◆	150K◆	249K◆	402K◆	649K◆	2.00M◆
16.5◆	27.4◆	44.2	71.5	124◆	215◆	348◆	560◆	910◆	1.60K◆	2.67K◆	4.30K◆	6.81K◆	11.8K◆	20.0K◆	33.0K◆	52.3K◆	88.7K◆	154K◆	255K◆	412K◆	665K◆	
16.9◆	28.0	45.3◆	73.2	127◆	220◆	357◆	562◆	931◆	1.62K◆	2.70K◆	4.32K◆	6.98K◆	12.0K◆	20.5K◆	33.2K◆	53.6K◆	90.9K◆	158K◆	261K◆	422K◆	680K◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0603, 1/10 Watt	10.0 ~ 2.00M	50	0.063W	0.8	1.6	0.45	0.3	RHM(Value)HCT-ND	.77	2.08	4.77	RHM(Value)HTR-ND	4.83/M	MCR03EZPFXxxxx

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MCR03 5%, 1/10 Watt — 0603 Series Resistor Values

0.0◆	1.8	3.9	7.5◆	15◆	30◆	56◆	110◆	220◆	430◆	820◆	1.6K◆	3.3K◆	6.2K◆	12K◆	24K◆	47K◆	91K	180K◆	360K	680K◆	1.3M◆	2.7M	5.1M◆
1.0◆	2.2◆	4.3	8.2	16◆	33◆	62◆	120◆	240◆	470◆	910	1.8K◆	3.6K◆	6.8K◆	13K◆	27K◆	51K◆	100K◆	200K◆	390K	750K	1.5M◆	3.0M◆	5.6M◆
1.1◆	2.4◆	4.7◆	9.1	18◆	36◆	68◆	130◆	270◆	510◆	1.0K◆	2.0K◆	3.9K◆	7.5K◆	15K◆	30K◆	56K◆	110K◆	220K◆	430K	820K◆	1.6M◆	3.3M◆	6.2M
1.2◆	2.7◆	5.1◆	10◆	20◆	39◆	75◆	150◆	300◆	560◆	1.1K◆	2.2K◆	4.3K◆	8.2K◆	16K◆	33K◆	62K◆	120K◆	240K◆	470K◆	910K	1.8M◆	3.6M	6.8M◆
1.3◆	3.0◆	5.6◆	11◆	22◆	43◆	82◆	160◆	330◆	620◆	1.2K◆	2.4K◆	4.7K◆	9.1K◆	18K◆	36K◆	68K◆	130K	270K◆	510K◆	1.0M◆	2.0M◆	3.9M	8.2M
1.5	3.3◆	6.2	12◆	24◆	47◆	91◆	180◆	360◆	680◆	1.3K◆	2.7K◆	5.1K◆	10K◆	20K◆	39K◆	75K◆	150K◆	300K◆	560K	1.1M◆	2.2M◆	4.3M	10M◆
1.6◆	3.6◆	6.8◆	13	27◆	51◆	100◆	200◆	390◆	750◆	1.5K◆	3.0K◆	5.6K◆	11K◆	22K◆	43K◆	82K◆	160K◆	330K◆	620K	1.2M◆	2.4M◆	4.7M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	0.0 ~ 10M	50	0.100W	0.8	1.6	0.45	0.3	RHM(Value)GCT-ND	.71	1.91	4.38	RHM(Value)GTR-ND	3.45/M	MCR03EZPJxxxx

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR10 1%, 1/4 Watt — 0805 Series Low Ohmic Resistor Values – *RoHS Compliant*

.047	.062	.082	.11	.15	.20	.27	.36	.47	.56	.75
.051	.068	.091	.12	.16	.22	.30	.39	.51	.62	.82
.056	.075	.10	.13	.18	.24	.33	.43	.511	.68	.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	.047 ~ .091	0.25W	1.25	2.0	0.55	0.4	RHM(Value)NCT-ND	3.00	10.63	35.00	RHM(Value)NTR-ND	110.00/M	MCR10EZHFSxxxx
1%, 0805, 1/4 Watt	.10 ~ .91	0.25W	1.25	2.0	0.55	0.4	RHM(Value)MCT-ND	1.41	5.00	16.49	RHM(Value)MTR-ND	47.00/M	MCR10EZHFLxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR10 1%, 1/4, 1/8 Watt — 0805 Series Resistor Values

1.00	13.0◆	22.6◆	37.4	61.9◆	105	182◆	309◆	510◆	866◆	1.54K◆	2.61K◆	4.30K◆	6.98K◆	12.1K◆	21.5K◆	36.0K◆	59.0K	100K◆	178K◆	300K◆	487K	820K◆	1.50M◆
1.10	13.3◆	23.2	38.3	62.0◆	107	187◆	316◆	511◆	887◆	1.58K◆	2.67K◆	4.32K◆	7.15K◆	12.4K◆	22.0K◆	36.5K◆	60.4K◆	102K◆	180K◆	301K◆	499K◆	825K◆	1.54M
1.30	13.7	23.7	39.0◆	63.4	110◆	191◆	324◆	523◆	909◆	1.60K◆	2.70K◆	4.42K◆	7.32K◆	12.7K◆	22.1K◆	37.4K◆	61.9K◆	105K◆	182K◆	309K◆	510K◆	845K◆	1.58M
1.50	14.0	24.0◆	39.2◆	64.9◆	113	196◆	330◆	536◆	910◆	1.62K◆	2.74K◆	4.53K◆	7.50K◆	13.0K◆	22.6K◆	38.3K◆	62.0K◆	107K◆	187K◆	316K	511K◆	866K	1.62M
1.80	14.3	24.3	40.2◆	66.5◆	115◆	200◆	332◆	560◆	931◆	1.65K◆	2.80K◆	4.64K◆	7.68K◆	13.3K◆	23.2K◆	39.0K◆	63.4K◆	110K◆	191K◆	324K◆	523K	887K◆	1.65M◆
2.00	14.7	24.9◆	41.2◆	68.0◆	118	205◆	340◆	562◆	953◆	1.69K◆	2.87K◆	4.70K◆	7.87K◆	13.7K◆	23.7K◆	39.2K◆	64.9K◆	113K	196K	330K◆	536K	909K◆	1.69M◆
2.20	15.0◆	25.5	42.2	68.1◆	120◆	210◆	348	576◆	976◆	1.74K◆	2.94K	4.75K◆	8.06K◆	14.0K◆	24.0K◆	40.2K◆	66.5K◆	115K◆	200K◆	332K◆	549K	931K	1.74M
3.00	15.4	26.1◆	43.0◆	69.8	121◆	215◆	357◆	590◆	1.00K◆	1.78K◆	3.00K◆	4.87K◆	8.20K◆	14.3K◆	24.3K◆	41.2K◆	68.0K◆	118K◆	205K◆	340K◆	560K◆	953K	1.80M◆
3.90	15.8	26.7	43.2◆	71.5◆	124◆	220◆	360◆	604◆	1.02K◆	1.80K◆	3.01K◆	4.99K◆	8.25K◆	14.7K◆	24.9K◆	42.2K◆	68.1K◆	120K◆	210K◆	348K◆	562K◆	976K	1.82M
4.70	16.0◆	27.0◆	44.2	73.2	127◆	221◆	365◆	619◆	1.05K◆	1.82K◆	3.09K◆	5.10K◆	8.45K◆	15.0K◆	25.5K◆	43.0K◆	69.8K◆	121K◆	215K◆	357K◆	576K	1.00M◆	1.87M
5.60	16.2◆	27.4◆	45.3◆	75.0◆	130◆	226◆	374	620◆	1.07K◆	1.87K◆	3.16K◆	5.11K◆	8.66K◆	15.4K◆	26.1K◆	43.2K◆	71.5K◆	124K◆	220K◆	360K◆	590K◆	1.02M	1.91M
6.20	16.5	28.0◆	46.4◆	76.8	133◆	232◆	383◆	634◆	1.10K◆	1.91K◆	3.24K◆	5.23K◆	8.87K◆	15.8K◆	26.7K◆	44.2K◆	73.2K	127K◆	221K◆	365K◆	604K◆	1.05M	1.96M
6.80	16.9	28.7	47.0◆	78.7◆	137◆	237◆	390◆	649◆	1.13K◆	1.96K◆	3.30K◆	5.36K◆	9.09K◆	16.0K◆	27.0K◆	45.3K◆	75.0K◆	130K◆	226K	374K◆	619K◆	1.10M◆	2.00M◆
7.50	17.4	29.4	47.5◆	80.6◆	140◆	240◆	392◆	665◆	1.15K◆	2.00K◆	3.32K◆	5.49K◆	9.10K◆	16.2K◆	27.4K◆	46.4K◆	76.8K◆	133K	232K◆	383K	620K◆	1.13M	2.05M
10.0◆	17.8◆	30.0◆	48.7	82.0◆	143◆	243◆	402◆	680◆	1.18K◆	2.05K◆	3.40K◆	5.60K◆	9.31K◆	16.5K◆	28.0K◆	47.0K◆	78.7K◆	137K◆	237K◆	390K◆	634K	1.15M	2.10M◆
10.2	18.0◆	30.1◆	49.9◆	82.5◆	147◆	249◆	412	681◆	1.20K◆	2.10K◆	3.48K◆	5.62K◆	9.53K◆	16.9K◆	28.7K◆	47.5K◆	80.6K◆	140K◆	240K◆	392K	649K	1.18M◆	2.15M
10.5	18.2	30.9	51.0◆	84.5	150◆	255◆	422◆	698◆	1.21K◆	2.15K◆	3.57K◆	5.76K◆	9.76K◆	17.4K◆	29.4K◆	48.7K◆	82.0K◆	143K◆	243K◆	402K◆	665K	1.20M◆	2.20M◆
10.7	18.7	31.6◆	51.1◆	86.6	154	261◆	430◆	715◆	1.24K◆	2.20K◆	3.60K◆	5.90K◆	10.0K◆	17.8K◆	30.0K◆	49.9K◆	82.5K◆	147K◆	249K◆	412K	680K◆	1.21M◆	
11.0◆	19.1	32.4	52.3	88.7	158◆	267◆	432◆	732◆	1.27K◆	2.21K◆	3.65K◆	6.04K◆	10.2K◆	18.0K◆	30.1K◆	51.0K◆	84.5K◆	150K◆	255K	422K◆	681K◆	1.24M◆	
11.3	19.6◆	33.0◆	53.6	90.9◆	160◆	270◆	442◆	750◆	1.30K◆	2.26K◆	3.74K◆	6.19K◆	10.5K◆	18.2K◆	31.6K◆	51.1K◆	86.6K◆	154K◆	261K◆	430K◆	698K	1.27M	
11.5	20.0◆	33.2◆	54.9◆	91.0◆	162◆	274◆	453◆	768◆	1.33K◆	2.32K◆	3.83K◆	6.20K◆	10.7K◆	18.7K◆	32.4K◆	52.3K◆	88.7K◆	158K◆	267K◆	432K◆	715K◆	1.30M◆	
11.8	20.5	34.0◆	56.0◆	93.1	165◆	280◆	464◆	787◆	1.37K◆	2.37K◆	3.90K◆	6.34K◆	11.0K◆	19.1K◆	33.0K◆	53.6K	90.9K◆	160K◆	270K◆	442K◆	732K	1.33M	
12.0◆	21.0	34.8◆	56.2◆	95.3	169◆	287◆	470◆	806◆	1.40K◆	2.40K◆	3.92K◆	6.49K◆	11.3K◆	19.6K◆	33.2K◆	54.9K◆	91.0K◆	162K◆	274K◆	453K◆	750K◆	1.37M	
12.1	21.5◆	35.7	57.6◆	97.6	174◆	294◆	475◆	820◆	1.43K◆	2.43K◆	4.02K◆	6.65K◆	11.5K◆	20.0K◆	34.0K◆	56.0K◆	93.1K◆	165K◆	280K◆	464K◆	768K	1.40M◆	
12.4	22.0◆	36.0◆	59.0◆	100◆	178	300◆	487◆	825◆	1.47K◆	2.49K◆	4.12K◆	6.80K◆	11.8K◆	20.5K◆	34.8K◆	56.2K◆	95.3K◆	169K◆	287K◆	470K◆	787K	1.43M	
12.7	22.1◆	36.5◆	60.4◆	102	180◆	301◆	499◆	845◆	1.50K◆	2.55K◆	4.22K◆	6.81K◆	12.0K◆	21.0K◆	35.7K◆	57.6K	97.6K◆	174K◆	294K◆	475K◆	806K	1.47M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	1.00 ~ 7.50	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	1.41	5.00	16.49	RHM(Value)CTR-ND	46.92/M	MCR10EZHFLxxxx
1%, 0805, 1/8 Watt	10.0 ~ 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	.41	1.46	4.82	RHM(Value)CTR-ND	6.92/M	MCR10EZHFxxxx
1%, 0805, 1/8 Watt	10.0 ~ 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CRCT-ND◆	.38	1.34	4.41	RHM(Value)CRTR-ND◆	6.00/M	MCR10EZPFxxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR10 5%, 1/8 Watt — 0805 Series Resistor Values

0.0◆	1.8◆	3.6◆	6.8◆	13◆	27◆	51◆	100◆	200◆	390◆	750◆	1.5K◆	3.0K◆	5.6K◆	11K◆	22K◆	43K◆	82K◆	160K◆	330K◆	620K◆	1.2M◆	2.4M	4.7M◆	9.1M
1.0◆	2.0	3.9◆	7.5◆	15◆	30◆	56◆	110◆	220◆	430◆	820◆	1.6K◆	3.3K◆	6.2K◆	12K◆	24K◆	47K◆	91K◆	180K◆	360K◆	680K◆	1.3M	2.7M◆	5.1M◆	10M◆
1.1	2.2◆	4.3◆	8.2◆	16◆	33◆	62◆	120◆	240◆	470◆	910◆	1.8K◆	3.6K◆	6.8K◆	13K◆	27K◆	51K◆	100K◆	200K◆	390K◆	750K◆	1.5M◆	3.0M◆	5.6M	
1.2◆	2.4◆	4.7◆	9.1◆	18◆	36◆	68◆	130◆	270◆	510◆	1.0K◆	2.0K◆	3.9K◆	7.5K◆	15K◆	30K◆	56K◆	110K◆	220K◆	430K◆	820K◆	1.6M◆	3.3M◆	6.2M	
1.3◆	2.7◆	5.1◆	10◆	20◆	39◆	75◆	150◆	300◆	560◆	1.1K◆	2.2K◆	4.3K◆	8.2K◆	16K◆	33K◆	62K◆	120K◆	240K◆	470K◆	910K◆	1.8M	3.6M	6.8M	
1.5◆	3.0◆	5.6◆	11◆	22◆	43◆	82◆	160◆	330◆	620◆	1.2K◆	2.4K◆	4.7K◆	9.1K◆	18K◆	36K◆	68K◆	130K◆	270K◆	510K◆	1.0M◆	2.0M	3.9M◆	7.5M	
1.6	3.3◆	6.2◆	12◆	24◆	47◆	91◆	180◆	360◆	680◆	1.3K◆	2.7K◆	5.1K◆	10K◆	20K◆	39K◆	75K◆	150K◆	300K◆	560K◆	1.1M◆	2.2M◆	4.3M	8.2M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	0.0 ~ 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ACT-ND	.80	2.16	4.96	RHM(Value)ATR-ND	5.52/M	MCR10EZHJxxx
5%, 0805, 1/8 Watt	0.0 ~ 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ARCT-ND◆	.34	1.19	3.93	RHM(Value)ARTR-ND◆	4.00/M	MCR10EZPJxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR18 1%, 1/4 Watt — 1206 Series Low Ohmic Resistor Values – *RoHS Compliant*

.047	.062	.082	.11	.15	.20	.27	.36	.47	.62	.82
.051	.068	.091	.12	.16	.22	.30	.39	.51	.68	.91
.056	.075	.10	.13	.18	.24	.33	.43	.56	.75	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	.047 ~ .091	0.25W	1.6	3.2	0.55	0.5	RHM(Value)RCT-ND	4.38	15.51	51.10	RHM(Value)RTR-ND	166.00/M	MCR18EZHFSxxxx
1%, 1206, 1/4 Watt	.10 ~ .91	0.25W	1.6	3.2	0.55	0.5	RHM(Value)QCT-ND	2.03	7.20	23.73	RHM(Value)QTR-ND	72.00/M	MCR18EZHFLxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

MCR18 1%, 1/4 Watt — 1206 Series Resistor Values

1.00	12.0◆	23.7◆	43.2◆	82.0◆	162	309◆	562	1.10K◆	2.20K◆	4.02K◆	7.50K◆	15.0K◆	29.4K	53.6K◆	102K	205K	383K	698K	1.40M
1.10	12.1	24.0◆	44.2	82.5◆	165	316◆	576	1.13K	2.21K◆	4.12K	7.68K◆	15.4K◆	30.0K◆	54.9K◆	105K	210K	390K◆	715K	1.43M
1.20	12.4	24.3	45.3	84.5	169	324	590	1.15K	2.26K	4.22K	7.87K◆	15.8K	30.1K◆	56.0K◆	107K	215K◆	392K	732K	1.47M
1.30	12.7	24.9◆	46.4	86.6◆	174	330◆	604	1.18K◆	2.32K	4.30K◆	8.06K	16.0K◆	30.9K	56.2K	110K◆	220K◆	402K	750K◆	1.50M◆
1.50	13.0◆	25.5	47.0◆	88.7	178	332◆	619◆	1.20K◆	2.37K◆	4.32K◆	8.20K◆	16.2K	31.6K	57.6K	113K	221K	412K	768K	1.54M
1.60	13.3	26.1	47.5◆	90.9◆	180◆	340	620◆	1.21K◆	2.40K◆	4.42K◆	8.25K	16.5K	32.4K◆	59.0K◆	115K	226K	422K◆	787K	1.58M
1.80	13.7	26.7	48.7	91.0	182	348◆	634	1.24K	2.43K	4.53K	8.45K	16.9K◆	33.0K◆	60.4K	118K	232K	430K◆	806K	1.60M
2.00	14.0	27.0◆	49.9	93.1	187	357◆	649◆	1.27K◆	2.49K◆	4.64K◆	8.66K◆	17.4K	33.2K◆	61.9K	120K◆	237K◆	432K	820K◆	1.62M
2.20	14.3	27.4◆	51.0◆	95.3◆	191	360◆	665	1.30K◆	2.55K	4.70K◆	8.87K◆	17.8K◆	34.0K	62.0K◆	121K	240K◆	442K	825K◆	1.65M
2.40	14.7	28.0	51.1◆	97.6	196	365◆	680◆	1.33K◆	2.61K	4.75K◆	9.09K◆	18.0K◆	34.8K	63.4K	124K◆	243K	453K	845K	1.69M
2.70	15.0◆	28.7◆	52.3	100◆	200◆	374	681◆	1.37K◆	2.67K◆	4.87K	9.10K◆	18.2K◆	35.7K◆	64.9K	127K	249K	464K	866K	1.74M
3.00	15.4	29.4	53.6◆	102◆	205	383	698◆	1.40K	2.70K◆	4.99K◆	9.31K	18.7K◆	36.0K◆	66.5K	130K◆	255K	470K◆	887K	1.78M
3.30	15.8◆	30.0◆	54.9	105	210	390◆	715◆	1.43K	2.74K◆	5.10K◆	9.53K	19.1K	36.5K	68.0K◆	133K	261K◆	475K◆	909K	1.80M
3.60	16.0◆	30.1◆	56.0◆	107	215	392	732	1.47K	2.80K	5.11K◆	9.76K	19.6K	37.4K	68.1K◆	137K	267K◆	487K	910K◆	1.82M
3.90	16.2	30.9◆	56.2◆	110◆	220◆	402◆	750◆	1.50K◆	2.87K	5.23K	10.0K◆	20.0K◆	38.3K	69.8K	140K	270K◆	499K	931K◆	1.87M
4.30	16.5◆	31.6	57.6◆	113	221◆	412	768	1.54K	2.94K	5.36K	10.2K◆	20.5K	39.0K◆	71.5K	143K◆	274K	510K◆	953K	1.91M
4.70	16.9	32.4	59.0◆	115	226	422	787	1.58K	3.00K◆	5.49K	10.5K	21.0K	39.2K	73.2K	147K	280K◆	511K◆	976K	1.96M
5.10	17.4	33.0◆	60.4◆	118	232	430◆	806	1.60K◆	3.01K◆	5.60K◆	10.7K	21.5K◆	40.2K◆	75.0K◆	150K◆	287K	523K	1.00M◆	2.00M◆
5.60	17.8	33.2◆	61.9◆	120◆	237◆	432◆	820◆	1.62K◆	3.09K◆	5.62K◆	11.0K◆	22.0K◆	41.2K	76.8K	154K	294K	536K	1.02M	2.05M
6.20	18.0◆	34.0	62.0◆	121◆	240◆	442	825◆	1.65K	3.16K◆	5.76K◆	11.3K	22.1K◆	42.2K◆	78.7K◆	158K	300K◆	549K	1.05M	2.10M
6.80	18.2	34.8	63.4	124	243	453	845	1.69K	3.24K	5.90K	11.5K◆	22.6K	43.0K◆	80.6K◆	160K◆	301K◆	560K◆	1.07M	2.15M
7.50	18.7	35.7◆	64.9◆	127	249	464	866	1.74K◆	3.30K◆	6.04K◆	11.8K	23.2K	43.2K	82.0K◆	162K	309K◆	562K	1.10M	2.20M◆
8.20	19.1	36.0◆	66.5	130◆	255	470◆	887	1.78K	3.32K◆	6.19K◆	12.0K◆	23.7K	44.2K◆	82.5K	165K◆	316K	576K	1.13M	
9.10	19.6	36.5◆	68.0◆	133	261	475◆	909	1.80K◆	3.40K◆	6.20K◆	12.1K◆	24.0K◆	45.3K	84.5K	169K◆	324K◆	590K◆	1.15M	
10.0◆	20.0◆	37.4◆	68.1◆	137	267	487	910◆	1.82K◆	3.48K	6.34K	12.4K	24.3K	46.4K◆	86.6K	174K	330K◆	604K	1.18M	
10.2	20.5	38.3◆	69.8◆	140	270◆	499	931	1.87K	3.57K	6.49K◆	12.7K◆	24.9K	47.0K◆	88.7K	178K◆	332K◆	619K	1.20M◆	
10.5	21.0	39.0◆	71.5◆	143	274	510◆	953	1.91K◆	3.60K◆	6.65K	13.0K◆	25.5K◆	47.5K◆	90.9K◆	180K◆	340K	620K◆	1.21M	
10.7	21.5◆	39.2◆	73.2◆	147	280	511◆	976	1.96K	3.65K◆	6.80K◆	13.3K◆	26.1K◆	48.7K◆	91.0K◆	182K	348K	634K	1.24M	
11.0◆	22.0◆	40.2	75.0◆	150◆	287	523◆	1.00K◆	2.00K◆	3.74K	6.81K◆	13.7K	26.7K◆	49.9K◆	93.1K	187K	357K	649K	1.27M	
11.3	22.1◆	41.2	76.8◆	154◆	294◆	536	1.02K	2.05K	3.83K◆	6.98K◆	14.0K◆	27.0K◆	51.0K◆	95.3K◆	191K	360K◆	665K	1.30M	
11.5	22.6	42.2	78.7◆	158	300◆	549	1.05K	2.10K	3.90K◆	7.15K	14.3K	28.0K	51.1K◆	97.6K	196K	365K	680K◆	1.33M	
11.8◆	23.2	43.0◆	80.6◆	160◆	301◆	560◆	1.07K◆	2.15K◆	3.92K	7.32K	14.7K◆	28.7K◆	52.3K	100K◆	200K◆	374K	681K	1.37M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 ~ 9.10	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	2.03	7.20	23.73	RHM(Value)FTR-ND	71.76/M	MCR18EZHFLxxxx
1%, 1206, 1/4 Watt	10.0 ~ 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	.52	1.83	6.02	RHM(Value)FTR-ND	11.04/M	MCR18EZHFxxxx
1%, 1206, 1/4 Watt	10.0 ~ 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FRCT-ND◆	.47	1.68	5.54	RHM(Value)FRTR-ND◆	9.00/M	MCR18EZPFxxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant † For complete part number, substitute value from Resistor Value Chart for (Value).

MCR18 5%, 1/4 Watt — 1206 Series Resistor Values

0.0◆	3.3◆	11◆	39◆	150◆	510◆	1.8K◆	6.2K◆	22K◆	75K◆	270K◆	910K◆	3.3M◆
1.0◆	3.6	12◆	43◆	160◆	560◆	2.0K◆	6.8K◆	24K◆	82K◆	300K◆	1.0M◆	3.6M
1.1◆	3.9◆	13◆	51◆	180◆	620◆	2.2K◆	7.5K◆	27K◆	91K◆	330K◆	1.1M	3.9M◆
1.2◆	4.3◆	15◆	56◆	200◆	680◆	2.4K◆	8.2K◆	30K◆	100K◆	360K◆	1.2M	4.3M
1.3	4.7◆	16◆	62◆	220◆	750◆	2.7K◆	9.1K◆	33K◆	110K◆	390K◆	1.3M	4.7M◆
1.5◆	5.1◆	18◆	68◆	240◆	820◆	3.0K◆	10K◆	36K◆	120K◆	430K◆	1.5M◆	5.1M
1.6◆	5.6◆	20◆	75◆	270◆	910◆	3.3K◆	11K◆	39K◆	130K◆	470K◆	1.6M	5.6M◆
1.8◆	6.2◆	22◆	82◆	300◆	1.0K◆	3.6K◆	12K◆	43K◆	150K◆	510K◆	1.8M◆	6.2M
2.0	6.8◆	24◆	91◆	330◆	1.1K◆	3.9K◆	13K◆	47K◆	160K◆	560K◆	2.0M◆	6.8M◆
2.2◆	7.5	27◆	100◆	360◆	1.2K◆	4.3K◆	15K◆	51K◆	180K◆	620K◆	2.2M◆	7.5M
2.4◆	8.2◆	30◆	110◆	390◆	1.3K◆	4.7K◆	16K◆	56K◆	200K◆	680K◆	2.4M	8.2M
2.7◆	9.1◆	33◆	120◆	430◆	1.5K◆	5.1K◆	18K◆	62K◆	220K◆	750K◆	2.7M	9.1M
3.0◆	10◆	36◆	130◆	470◆	1.6K◆	5.6K◆	20K◆	68K◆	240K◆	820K◆	3.0M	10M◆

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	0.0 ~ 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ECT-ND	1.02	2.76	6.33	RHM(Value)ETR-ND	10.35/M	MCR18EZHJxxx
5%, 1206, 1/4 Watt	0.0 ~ 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ERCT-ND◆	.41	1.45	4.77	RHM(Value)ERTR-ND◆	7.00/M	MCR18EZPJxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant † For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! MCR25 1%, 1/4 Watt — 1210 Series Resistor Values – *RoHS Compliant* ***NEW!***

10.0	16.5	26.1	40.2	61.9	102	165	255	402	665	1.15K	1.82K	3.16K	5.49K	9.31K	14.7K	29.4K	54.9K	110K	221K	475K
10.5	16.9	26.7	41.2	63.4	105	169	261	412	681	1.18K	1.87K	3.32K	5.62K	9.53K	15.0K	30.1K	56.2K	113K	226K	499K
10.7	17.4	27.4	42.2	66.5	107	174	267	422	698	1.21K	2.00K	3.40K	5.90K	9.76K	15.4K	31.6K	59.0K	115K	232K	511K
11.0	17.8	28.7	43.2	68.1	110	178	274	453	715	1.24K	2.10K	3.48K	6.04K	10.0K	16.2K	33.2K	60.4K	118K	237K	562K
11.3	18.2	29.4	44.2	69.8	113	182	287	464	787	1.27K	2.15K	3.65K	6.19K	10.2K	16.5K	34.0K	63.4K	121K	243K	576K
11.5	18.7	30.1	45.3	73.2	115	187	301	475	806	1.30K	2.21K	3.74K	6.34K	10.5K	18.2K	35.7K	66.5K	127K	249K	604K
11.8	19.1	30.9	46.4	76.8	121	191	309	499	825	1.33K	2.26K	3.83K	6.49K	10.7K	19.1K	37.4K	68.1K	130K	274K	619K
12.1	19.6	31.6	47.5	78.7	124	196	316	511	866	1.37K	2.32K	3.92K	6.65K	11.0K	20.0K	38.3K	71.5K	137K	301K	649K
12.4	20.0	32.4	48.7	80.6	127	200	324	523	909	1.40K	2.43K	4.02K	6.98K	11.3K	20.5K	39.2K	73.2K	140K	316K	681K
12.7	20.5	33.2	49.9	82.5	130	205	332	536	953	1.43K	2.49K	4.22K	7.15K	12.0K	21.0K	41.2K	80.6K	143K	332K	787K
13.7	21.0	34.0	51.1	84.5	133	210	340	549	976	1.47K	2.55K	4.42K	7.32K	12.1K	22.1K	42.2K	82.5K	150K	340K	806K
14.3	21.5	34.8	52.3	88.7	137	215	348	562	1.00K	1.50K	2.61K	4.64K	7.68K	12.4K	22.6K	43.2K	84.5K	154K	348K	825K
14.7	22.1	35.7	54.9	90.9	140	221	357	590	1.02K	1.54K	2.67K	4.75K	8.06K	13.0K	24.3K	45.3K	86.6K	178K	357K	909K
15.0	23.7	36.5	56.2	93.1	147	232	365	604	1.05K	1.62K	2.74K	4.87K	8.25K	13.3K	24.9K	47.5K	88.7K	182K	374K	1.00M
15.4	24.3	37.4	57.6	95.3	150	237	374	619	1.07K	1.69K	2.94K	4.99K	8.45K	13.7K	26.1K	49.9K	90.9K	200K	392K	
15.8	24.9	38.3	59.0	97.6	154	243	383	634	1.10K	1.74K	3.01K	5.11K	8.87K	14.0K	27.4K	51.1K	100K	210K	442K	
16.2	25.5	39.2	60.4	100	162	249	392	649	1.13K	1.78K	3.09K	5.23K	9.09K	14.3K	28.7K	52.3K	105K	215K	453K	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1210, 1/4 Watt	10.0 ~ 1.00M	0.25W	2.5	3.2	0.55	0.5	RHM(Value)BDCT-ND	3.24	8.71	20.02	RHM(Value)BDTR-ND	58.65/M	MCR25JZHFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

NEW! MCR25 5%, 1/4 Watt — 1210 Series Resistor Values – *RoHS Compliant* *NEW!*

0.0
1.1
1.2
1.3
1.5
1.6
1.8
2.0
2.2
2.4
2.7
3.0
3.3
3.6
3.9
4.3
4.7
5.1
5.6
6.2
6.8
7.5
8.2
10
11
12
13
15
16
18
20
22
24
27
30
33
36
39
43
47
51
56
62
68
75
82
91
100
110
120
130
150
160
180
200
220
240
270
300
330
360
390
430
470
510
560
620
680
750
820
910
1.0K
1.1K
1.2K
1.3K
1.5K
1.6K
1.8K
2.0K
2.2K
2.4K
2.7K
3.0K
3.3K
3.6K
3.9K
4.3K
4.7K
5.1K
5.6K
6.2K
6.8K
7.5K
8.2K
9.1K
10K
11K
12K
13K
15K
16K
18K
20K
22K
24K
27K
30K
33K
36K
39K
43K
47K
51K
56K
62K
68K
75K
82K
91K
100K
110K
120K
130K
150K
160K
180K
200K
220K
240K
270K
300K
330K
360K
390K
430K
470K
510K
560K
620K
680K
750K
820K
910K
1.0M
1.1M
1.2M
1.3M
1.5M
1.6M
1.8M
2.0M
2.2M
2.4M
2.7M
3.0M
3.3M
3.6M
3.9M
4.3M
4.7M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 1210, 1/4 Watt	0.0 ~ 4.7M	0.25W	2.5	3.2	0.55	0.5	RHM(Value)BECT-ND	2.56	6.89	15.82	RHM(Value)BETR-ND	43.83/M	MCR25JZHJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR25 1%, 1/2 Watt — 1210 Series Low Ohmic Resistor Values – *RoHS Compliant*

.047
.051
.056
.062
.068
.075
.082
.091
.10
.11
.12
.13
.15
.16
.18
.20
.22
.24
.27
.30
.33
.36
.39
.43
.47
.51
.56
.62
.68
.75
.82
.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1210, 1/2 Watt	.047 ~ .091	0.5W	2.5	3.2	0.55	0.5	RHM(Value)TCT-ND	6.66	23.58	77.67	RHM(Value)TTR-ND	257.00/M	MCR25JZHFSxxxx
1%, 1210, 1/2 Watt	.10 ~ .91	0.5W	2.5	3.2	0.55	0.5	RHM(Value)SCT-ND	2.03	7.20	23.73	RHM(Value)STR-ND	72.00/M	MCR25JZHFLxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR50 1%, 1/2 Watt — 2010 Series Low Ohmic Resistor Values – *RoHS Compliant*

.047
.051
.056
.062
.068
.075
.082
.091
.10
.11
.12
.13
.15
.16
.18
.20
.22
.24
.25
.27
.30
.33
.36
.39
.43
.47
.51
.56
.62
.68
.75
.82
.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2010, 1/2 Watt	.047 ~ .091	0.5W	2.5	5.0	0.55	0.6	RHM(Value)VCT-ND	6.45	22.84	75.25	RHM(Value)VTR-ND	248.00/M	MCR50JZHFSxxxx
1%, 2010, 1/2 Watt	.10 ~ .91	0.5W	2.5	5.0	0.55	0.6	RHM(Value)UCT-ND	5.55	19.67	64.79	RHM(Value)UTR-ND	213.00/M	MCR50JZHFLxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! MCR50 1%, 1/2 Watt — 2010 Series Resistor Values – *RoHS Compliant* *NEW!*

10.0
10.5
10.7
11.0
11.3
12.1
12.4
12.7
13.0
13.3
13.7
14.0
14.3
14.7
15.0
16.2
17.8
18.2
19.1
20.0
20.5
21.0
21.5
22.1
23.7
24.3
24.9
25.5
26.1
26.7
27.4
28.7
29.4
30.1
31.6
32.4
33.2
34.8
36.5
37.4
39.2
40.2
42.2
43.2
45.3
46.4
47.0
47.5
49.9
51.1
52.3
53.6
56.2
57.6
59.0
60.4
61.9
64.9
66.5
68.1
69.8
71.5
73.2
75.0
76.8
78.7
80.6
82.5
86.6
90.9
93.1
95.3
100
105
107
110
113
115
121
124
127
130
143
150
162
169
174
178
182
187
200
205
210
221
226
232
243
249
255
261
267
274
301
309
316
324
332
340
348
357
365
374
383
392
402
412
422
432
442
453
475
499
511
536
562
590
604
634
680
681
715
732
750
787
806
825
866
887
909
931
976
1.00K
1.07K
1.21K
1.24K
1.27K
1.30K
1.33K
1.37K
1.40K
1.43K
1.50K
1.54K
1.58K
1.62K
1.65K
1.69K
1.74K
1.78K
1.82K
2.00K
2.10K
2.21K
2.32K
2.43K
2.49K
2.55K
2.74K
2.80K
2.94K
3.01K
3.24K
3.32K
3.57K
3.65K
3.83K
3.92K
4.02K
4.22K
4.32K
4.42K
4.53K
4.75K
4.87K
4.99K
5.23K
5.36K
5.62K
5.76K
5.90K
6.04K
6.19K
6.34K
6.65K
6.81K
7.50K
8.06K
8.25K
8.45K
8.66K
9.09K
9.53K
9.76K
10.0K
10.7K
11.0K
12.1K
12.7K
13.0K
14.0K
14.3K
15.0K
16.5K
20.0K
20.5K
22.1K
24.3K
24.9K
27.4K
30.1K
36.5K
37.4K
38.3K
40.2K
43.2K
45.3K
47.5K
49.9K
56.2K
59.0K
60.4K
61.9K
68.1K
69.8K
75.0K
100K
110K
124K
130K
140K
143K
147K
150K
162K
169K
178K
200K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2010, 1/2 Watt	10.0 ~ 200K	0.5W	2.5	5.0	0.55	0.6	RHM(Value)BFCT-ND	6.24	16.80	38.59	RHM(Value)BFTR-ND	124.20/M	MCR50JZHFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! MCR50 5%, 1/2 Watt — 2010 Series Resistor Values – *RoHS Compliant* *NEW!*

0.0
1.0
1.1
1.2
1.3
1.5
1.6
1.8
2.0
2.2
2.4
2.7
3.0
3.3
3.9
4.3
4.7
5.1
5.6
6.2
6.8
7.5
8.2
9.1
10
11
12
13
15
16
18
20
22
24
27
30
33
36
39
43
47
51
56
62
68
75
82
91
100
110
120
130
150
160
180
200
220
240
270
300
330
360
390
430
470
510
560
620
680
750
820
910
1.0K
1.1K
1.2K
1.3K
1.5K
1.6K
1.8K
2.0K
2.2K
2.4K
2.7K
3.0K
3.3K
3.6K
3.9K
4.3K
4.7K
5.1K
5.6K
6.2K
6.8K
7.5K
8.2K
9.1K
10K
11K
12K
13K
15K
16K
18K
20K
22K
24K
27K
30K
33K
36K
39K
43K
47K
51K
56K
62K
68K
75K
82K
91K
100K
110K
120K
130K
150K
160K
180K
200K
220K
240K
270K
300K
330K
360K
390K
430K
470K
510K
560K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 2010, 1/2 Watt	0.0 ~ 560K	0.5W	2.5	5.0	0.55	0.6	RHM(Value)BGCT-ND	2.92	7.86	18.06	RHM(Value)BGTR-ND	51.75/M	MCR50JZHJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

MCR100 1%, 1 Watt — 2512 Series Low Ohmic Resistor Values – *RoHS Compliant*

.047
.051
.056
.062
.068
.075
.082
.091
.10
.11
.12
.13
.15
.16
.18
.20
.22
.24
.27
.30
.33
.36
.39
.43
.47
.51
.56
.62
.68
.75
.82
.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2512, 1 Watt	.047 ~ .091	1W	3.2	6.3	0.55	0.6	RHM(Value)XCT-ND	11.76	41.66	137.24	RHM(Value)XTR-ND	461.00/M	MCR100JZHFSxxxx
1%, 2512, 1 Watt	.10 ~ .91	1W	3.2	6.3	0.55	0.6	RHM(Value)WCT-ND	9.14	32.37	106.65	RHM(Value)WTR-ND	356.00/M	MCR100JZHFLxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

NEW! MCR100 1%, 1 Watt — 2512 Series Resistor Values – *RoHS Compliant* NEW!

10.0	14.3	20.0	34.0	53.6	84.5	127	221	392	649	1.21K	2.61K	6.04K	30.1K
10.2	14.7	20.5	35.7	56.2	86.6	130	226	402	665	1.30K	2.74K	7.50K	30.9K
10.5	15.0	22.1	37.4	60.4	88.7	133	232	412	698	1.40K	2.94K	8.87K	34.0K
10.7	15.4	23.2	38.3	61.9	90.9	140	243	422	715	1.47K	3.01K	10.0K	36.5K
11.0	15.8	24.3	39.2	64.9	93.1	147	249	432	750	1.50K	3.09K	11.0K	49.9K
11.3	16.2	24.9	40.2	66.5	95.3	150	255	453	787	1.82K	3.24K	12.4K	54.9K
11.5	16.5	26.1	43.2	68.1	97.6	154	274	464	806	1.87K	3.40K	13.3K	68.1K
11.8	16.9	26.7	44.2	69.8	100	165	287	499	845	2.00K	3.65K	13.7K	75.0K
12.1	17.4	28.0	45.3	71.5	105	178	301	511	866	2.10K	3.74K	15.0K	
12.4	17.8	28.7	46.4	73.2	110	191	316	536	909	2.15K	4.75K	15.8K	
13.0	18.2	29.4	47.5	75.0	113	196	324	549	1.00K	2.21K	4.99K	19.6K	
13.3	18.7	30.1	49.9	78.7	115	200	332	562	1.02K	2.37K	5.11K	20.0K	
13.7	19.1	30.9	51.1	80.6	121	205	340	604	1.07K	2.43K	5.76K	22.1K	
14.0	19.6	32.4	52.3	82.5	124	210	348	634	1.10K	2.49K	5.90K	24.9K	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2512, 1 Watt	10.0 ~ 75.0K	1W	3.2	6.3	0.55	0.6	RHM(Value)BBCT-ND	8.09	21.78	50.03	RHM(Value)BBTR-ND	164.58/M	MCR100JZHFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! MCR100 5%, 1 Watt — 2512 Series Resistor Values – *RoHS Compliant* NEW!

0.0	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K
1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 2512, 1 Watt	0.0 ~ 100K	1W	3.2	6.3	0.55	0.6	RHM(Value)BCCT-ND	5.58	15.01	34.48	RHM(Value)BCTR-ND	109.71/M	MCR100JZHJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! KTR03 1%, 1/10 Watt, High Voltage — 0603 Series Resistor Values – *RoHS Compliant* NEW!

1.00	1.00K	60.4K	110K	140K	390K	806K	1.20M	1.50M
10.0	10.0K	100K	120K	150K	750K	1.00M	1.30M	10.0M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 0603, 1/10 Watt	1.00 ~ 10.0M	0.1W	0.8	1.6	0.45	0.3	RHM(Value)AYCT-ND	1.97	5.31	12.20	RHM(Value)AYTR-ND	31.05/M	KTR03EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! KTR03 5%, 1/10 Watt, High Voltage — 0603 Series Resistor Values – *RoHS Compliant* NEW!

1.0	75	200	330	1.0K	10K	47K	56K	150K	200K	240K	300K	470K	750K	1.5M	1.8M	4.7M
22	100	270	470	3.3K	33K	51K	100K	180K	220K	270K	330K	510K	1.0M	1.6M	2.0M	6.8M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	1.0 ~ 6.8M	0.1W	0.8	1.6	0.45	0.3	RHM(Value)AZCT-ND	1.82	4.88	11.22	RHM(Value)AZTR-ND	27.60/M	KTR03EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

KTR10 1%, 1/8 Watt, High Voltage — 0805 Series Resistor Values – *RoHS Compliant*

4.70	4.70K	36.0K	91.0K	140K	200K	330K	402K	560K	866K	1.10M	1.80M	3.30M	6.20M
5.10	10.0K	42.2K	100K	150K	220K	332K	464K	620K	910K	1.20M	2.00M	4.30M	9.10M
51.0	13.0K	47.0K	120K	160K	255K	348K	510K	680K	953K	1.50M	2.20M	4.70M	10.0M
1.00K	20.0K	69.8K	130K	196K	300K	390K	536K	820K	1.00M	1.60M	3.00M	5.10M	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
1%, 0805, 1/8 Watt	4.70 ~ 10.0M	±100	400	0.125W	1.25	2.0	0.55	0.4	RHM(Value)AHCT-ND	2.45	6.59	15.13	RHM(Value)AHTR-ND	41.40/M	KTR10EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

KTR10 5%, 1/8 Watt, High Voltage — 0805 Series Resistor Values – *RoHS Compliant*

1.0	5.1	22	33	56	100	200	390	510	3.0K	20K	33K	100K	200K	300K	470K	680K	1.0M	1.5M	2.2M	3.3M	5.1M	10M
4.7	10	27	47	62	150	300	470	1.0K	10K	22K	47K	120K	270K	330K	510K	750K	1.1M	2.0M	2.7M	4.7M	5.6M	30M

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	1.0 ~ 30M	±200	400	0.125W	1.25	2.0	0.55	0.4	RHM(Value)BCT-ND	1.93	5.18	11.91	RHM(Value)BTR-ND	30.03/M	KTR10EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

KTR18 1%, 1/4 Watt, High Voltage — 1206 Series Resistor Values – *RoHS Compliant*

1.00	560	1.80K	4.7K	15.0K	27.4K	100K	182K	270K	316K	430K	549K	750K	820K	1.13M	1.60M	2.20M	3.00M	3.90M	4.99M	10.0M
120	1.00K	2.20K	5.10K	20.0K	56.2K	150K	200K	300K	330K	470K	560K	787K	910K	1.20M	1.80M	2.40M	3.30M	4.30M	5.10M	
240	1.50K	4.32K	10.0K	22.0K	82K	174K	255K	301K	390K	510K	620K	806K	1.10M	1.30M	2.00M	2.80M	3.60M	4.7M	7.50M	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 ~ 10.0M	±100	500	0.25W	1.6	3.2	0.55	0.5	RHM(Value)AICT-ND	2.76	7.44	17.09	RHM(Value)AITR-ND	48.30/M	KTR18EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

KTR18 5%, 1/4 Watt, High Voltage — 1206 Series Resistor Values – *RoHS Compliant*

1.5	5.6	16	39	62	100	160	270	430	680	1.1K	1.8K	3.3K	5.6K	10K	22K	51K	82K	180K	300K	470K	750K	1.2M	2.0M	3.3M	6.8M
1.8	6.8	18	43	68	110	180	300	470	750	1.2K	2.0K	3.9K	6.8K	12K	27K	56K	100K	200K	330K	510K	820K	1.3M	2.2M	3.9M	7.5M
2.0	8.2	22	47	75	120	200	330	510	820	1.3K	2.2K	4.3K	7.5K	15K	33K	62K	110K	220K	360K	560K	910K	1.5M	2.4M	4.7M	8.2M
3.3	10	27	51	82	130	220	360	560	910	1.5K	2.7K	4.7K	8.2K	18K	39K	68K	120K	240K	390K	620K	1.0M	1.6M	2.7M	5.1M	9.1M
4.7	12	33	56	91	150	240	390	620	1.0K	1.6K	3.0K	5.1K	9.1K	20K	47K	75K	150K	270K	430K	680K	1.1M	1.8M	3.0M	5.6M	10M

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	1.5 ~ 10M	±200	500	0.25W	1.6	3.2	0.55	0.5	RHM(Value)PCT-ND	1.93	5.18	11.91	RHM(Value)PTR-ND	30.03/M	KTR18EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! KTR25 5%, 1/3 Watt, High Voltage — 1210 Series Resistor Values – *RoHS Compliant* *NEW!*

22	43	220	240	820	6.8K	51K	91K	100K	120K	180K	470K	680K	1.0M	3.3M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 3225, 1/3 Watt	22 ~ 3.3M	0.33W	2.5	3.2	0.55	0.5	RHM(Value)BACT-ND	4.66	12.54	28.82	RHM(Value)BATR-ND	89.70/M	KTR25JZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR03 1%, 1/5 Watt, Anti-Surge — 0603 Series Resistor Values – *RoHS Compliant*

10.0	75.0	470	1.00K	2.70K	8.20K	12.0K	20.0K	37.4K	100K	220K	360K
51.0	200	560	1.50K	4.30K	10K	15.0K	27.0K	75.0K	150K	330K	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
1%, 0603, 1/5 Watt	10.0 ~ 360K	±100	50	0.2W	0.8	1.6	0.45	0.3	RHM(Value)ADCT-ND	1.82	4.88	11.22	RHM(Value)ADTR-ND	27.60/M	ESR03EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR03 5%, 1/5 Watt, Anti-Surge — 0603 Series Resistor Values – *RoHS Compliant*

10	20	62	130	180	240	390	560	910	1.6K	3.9K	6.2K	15K	47K	2.2M
13	22	100	150	200	300	470	680	1.0K	2.0K	4.7K	9.1K	22K	68K	10M
15	33	120	160	220	330	510	750	1.5K	2.2K	5.1K	10K	33K	82K	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
5%, 0603, 1/5 Watt	10 ~ 10M	±200	50	0.2W	0.8	1.6	0.45	0.3	RHM(Value)DCT-ND	1.42	3.82	8.78	RHM(Value)DTR-ND	18.99/M	ESR03EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR10 1%, 1/4 Watt, Anti-Surge — 0805 Series Resistor Values – *RoHS Compliant*

1.30	3.92	4.75	5.76	6.65	10.0	14.7	16.2	18.7	21.5	30.0	75.0	200	1.00K	1.50K	3.60K	4.70K	6.20K	9.10K	47.0K	100K	249K
2.00	4.22	4.87	5.90	6.81	13.7	15.0	16.5	19.1	22.6	43.0	82.0	220	1.10K	2.00K	3.90K	5.10K	6.80K	10.0K	51.0K	130K	330K
2.40	4.32	5.10	6.34	7.50	14.0	15.8	17.4	20.0	24.0	49.9	100	330	1.20K	3.00K	4.02K	5.60K	7.50K	15.0K	59.0K	150K	390K
3.90	4.70	5.60	6.49	9.10	14.3	16.0	18.2	20.5	27.0	56.0	120	430	1.30K	3.30K	4.30K	6.19K	8.2K	39.2K	97.6K	220K	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	1.30 ~ 390K	±100	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)AECT-ND	2.29	6.16	14.15	RHM(Value)AETR-ND	37.95/M	ESR10EZPFxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR10 5%, 1/4 Watt, Anti-Surge — 0805 Series Resistor Values – *RoHS Compliant*

1	1.6	2.4	4.7	6.8	11	16	24	36	51	75	110	160	240	360	560	910	1.5K	2.2K	3.3K	4.7K	7.5K	12K	22K	39K	68K	200K	560K	10M
1.1	1.8	2.7	5.1	7.5	12	18	27	39	56	82	120	180	270	390	680	1.0K	1.6K	2.4K	3.6K	5.1K	8.2K	13K	24K	47K	82K	220K	1.0M	
1.2	2	3.3	5.6	8.2	13	20	30	43	62	91	130	200	300	470	750	1.1K	1.8K	2.7K	3.9K	5.6K	9.1K	18K	27K	51K	91K	300K	1.5M	
1.5	2.2	3.9	6.2	10	15	22	33	47	68	100	150	220	330	510	820	1.2K	2.0K	3.0K	4.3K	6.8K	10K	20K	33K	56K	100K	470K	2.0M	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
5%, 0805, 1/4 Watt	1 ~10M	±200	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)KCT-ND	1.42	3.82	8.78	RHM(Value)KTR-ND	18.99/M	ESR10EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR18 1%, 1/3 Watt, Anti-Surge — 1206 Series Resistor Values – *RoHS Compliant*

1.00	10.0	27.0	51.0	82.0	200	1.00K	2.00K	4.02K	6.20K	10.0K	30.1K	100K	300K	10.0M
8.20	20.0	33.0	60.4	100	392	1.30K	2.10K	6.04K	7.87K	27.0K	33.0K	150K	470K	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
1%, 1206, 1/3 Watt	1.00 ~ 10.0M	±100	200	0.33W	1.6	3.2	0.55	0.5	RHM(Value)AFCT-ND	2.13	5.74	13.18	RHM(Value)AFTR-ND	34.50/M	ESR18EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

ESR18 5%, 1/3 Watt, Anti-Surge — 1206 Series Resistor Values – *RoHS Compliant*

1	2.0	3.9	6.8	12	20	30	43	62	120	300	430	620	910	1.3K	2.0K	3.3K	5.1K	8.2K	16K	33K	100K	220K	820K
1.1	2.2	4.7	7.5	13	22	33	47	68	200	330	470	680	1.0K	1.5K	2.2K	3.6K	5.6K	10K	18K	39K	110K	300K	1.0M
1.2	2.4	5.1	9.1	15	24	36	51	75	220	360	510	750	1.1K	1.6K	2.7K	3.9K	6.2K	12K	20K	47K	150K	470K	3.0M
1.5	3.3	6.2	10	18	27	39	56	100	270	390	560	820	1.2K	1.8K	3.0K	4.7K	6.8K	15K	22K	82K	200K	680K	10M

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
					W	L	T	tb		10	50	200			
5%, 1206, 1/3 Watt	1 ~ 10M	±200	200	0.33W	1.6	3.2	0.55	0.50	RHM(Value)ICT-ND	2.29	6.16	14.15	RHM(Value)ITR-ND	37.95/M	ESR18EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

NEW! ESR25 1%, 1/2 Watt, Anti-Surge — 1210 Series Resistor Values – *RoHS Compliant* *NEW!*

1.00	2.00	10.0	15.0	100	120	75.0	5.62K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
			W	L	T	tb		10	50	200		4,000	
1%, 1210, 1/2 Watt	1.00 ~ 5.62K	0.5W	2.5	3.2	0.55	0.5	RHM(Value)AWCT-ND	5.93	15.95	36.64	RHM(Value)AWTR-ND	117.30/M	ESR25JZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! ESR25 5%, 1/2 Watt, Anti-Surge — 1210 Series Resistor Values – *RoHS Compliant* *NEW!*

1.0	2.2	10	15	47	100	160	240	390	910	1.5K	3.3K	6.8K	10K	470K
1.6	3.9	12	22	68	110	180	300	470	1.0K	2.0K	3.9K	7.5K	47K	1.0M
1.8	4.7	13	43	91	120	220	330	820	1.2K	2.4K	5.1K	8.2K	220K	10M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
			W	L	T	tb		10	50	200		4,000	
5%, 1210, 1/2 Watt	1.0 ~ 10M	0.5W	2.5	3.2	0.55	0.5	RHM(Value)AXCT-ND	4.50	12.12	27.84	RHM(Value)AXTR-ND	86.25/M	ESR25JZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

LTR18 1%, 1/2 Watt — 1206 Series Resistor Values – *RoHS Compliant*

510	560	576	620	820	1.00K	1.30K	1.50K	1.80K	2.40K	2.70K	110K

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
					W	L	T	tb		10	50	200		5,000	
1%, 1206, 1/2 Watt	510 ~ 110K	±100	200	0.5W	1.60	3.20	0.55	0.50	RHM(Value)YCT-ND	2.45	6.59	15.13	RHM(Value)YTR-ND	41.00/M	LTR18EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

LTR18 5%, 1/2 Watt — 1206 Series Resistor Values – *RoHS Compliant*

20	30	47	100	300	390	910	1.2K	10K
22	33	91	220	330	510	1.0K	2.0K	

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
					W	L	T	tb		10	50	200		5,000	
5%, 1206, 1/2 Watt	20 ~ 10K	±200	200	0.5W	1.60	3.20	0.55	0.50	RHM(Value)ZCT-ND	2.00	5.39	12.39	RHM(Value)ZTR-ND	32.00/M	LTR18EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

LTR50 1%, 1 Watt — 2010 Series Resistor Values – *RoHS Compliant*

10.0	11.0	12.0	13.0	220	330	390

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
					W	L	T	tb		10	50	200		5,000	
1%, 2010, 1 Watt	10.0 ~ 390	±100	200	1W	2.50	5.0	0.55	0.90	RHM(Value)ACCT-ND	12.41	33.39	76.71	RHM(Value)ACTR-ND	259.00/M	LTR50UZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

LTR50 5%, 1 Watt — 2010 Series Resistor Values – *RoHS Compliant*

18	22	27	150	390	680	820	1.0K	1.8K

Description	Value Range (Ω)	Temp. Coefficient (ppm/°C)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
					W	L	T	tb		10	50	200		5,000	
5%, 2010, 1 Watt	18 ~ 1.8K	±200	200	1W	2.50	5.0	0.55	0.90	RHM(Value)AACT-ND	8.46	22.76	52.28	RHM(Value)AATR-ND	173.00/M	LTR50UZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR01 1%, 1/16 Watt, Sulfur Tolerant — 0402 Series Resistor Values – *RoHS Compliant* *NEW!*

15.0	100	750	1.00K	1.10K	1.20K	1.50K	2.00K	10.0K	15.0K	20.0K	100K	200K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
			W	L	T	tb		10	50	200		10,000	
1%, 0402, 1/16 Watt	15.0 ~ 200K	0.063W	0.5	1.0	0.35	0.25	RHM(Value)BHCT-ND	1.85	4.97	11.42	RHM(Value)BHTR-ND	25.47/M	TRR01MZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR01 5%, 1/16 Watt, Sulfur Tolerant — 0402 Series Resistor Values – *RoHS Compliant* *NEW!*

0.0	10	51	560	2.0K	4.7K	75K	620K	1.2M	2.40M	5.1M	10M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
			W	L	T	tb		10	50	200		10,000	
5%, 0402, 1/16 Watt	0.0 ~ 10M	0.063W	0.5	1.0	0.35	0.25	RHM(Value)BICT-ND	1.66	4.46	10.24	RHM(Value)BITR-ND	21.74/M	TRR01MZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR03 1%, 1/10 Watt, Sulfur Tolerant — 0603 Series Resistor Values – *RoHS Compliant* *NEW!*

10.0	15.0	100	1.00K	2.00K	10.0K	12.0K	33.2K	100K	1.00M

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing	Rohm Part No.
			W	L	T	tb		10	50	200		5,000	
1%, 0603, 1/10 Watt	10.0 ~ 1.00M	0.1W	0.8	1.6	0.45	0.3	RHM(Value)BJCT-ND	1.85	4.97	11.42	RHM(Value)BJTR-ND	28.29/M	TRR03EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

(Continued)

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

NEW! TRR03 5%, 1/10 Watt, Sulfur Tolerant — 0603 Series Resistor Values – *RoHS Compliant* ***NEW!***

0.0	1.0	51	1.0K	2.0K	3.3K	4.7K	10K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	0.0 ~ 10K	0.1W	0.8	1.6	0.45	0.3	RHM(Value)BKCT-ND	1.58	4.25	9.76	RHM(Value)BKTR-ND	22.44/M	TRR03EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR10 1%, 1/8 Watt, Sulfur Tolerant — 0805 Series Resistor Values – *RoHS Compliant* ***NEW!***

10.0	75.0	147	316	562	1.21K	2.15K	3.48K	4.64K	6.81K	10.0K	17.8K	23.7K	34.8K	51.1K	75.0K	147K	422K
21.5	100	215	464	681	1.47K	2.87K	3.83K	5.11K	7.50K	12.1K	19.6K	31.6K	38.3K	56.2K	100K	215K	1.00M
46.4	121	261	511	1.00K	1.78K	3.32K	4.22K	5.62K	8.25K	14.7K	21.5K	33.2K	46.4K	68.1K	121K	221K	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 0805, 1/8 Watt	10.0 ~ 1.00M	0.125W	1.25	2.0	0.55	0.4	RHM(Value)BLCT-ND	3.81	10.25	23.54	RHM(Value)BLTR-ND	71.07/M	TRR10EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR10 5%, 1/8 Watt, Sulfur Tolerant — 0805 Series Resistor Values – *RoHS Compliant* ***NEW!***

0.0	47	2.0K	3.3K	5.1K	6.8K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	0.0 ~ 6.8K	0.125W	1.25	2.0	0.55	0.4	RHM(Value)BMCT-ND	2.73	7.35	16.89	RHM(Value)BMTR-ND	47.61/M	TRR10EZPJxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! TRR18 1%, 1/4 Watt, Sulfur Tolerant — 1206 Series Resistor Values – *RoHS Compliant* ***NEW!***

75.0	121	147	464	681	825	1.47K	1.78K	2.15K	2.87K	5.11K	6.81K

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	75.0 ~ 6.81K	0.25W	1.6	3.2	0.55	0.5	RHM(Value)BNCT-ND	5.83	15.69	36.05	RHM(Value)BNTR-ND	115.23/M	TRR18EZPFxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value).

NEW! PMR10 1%, 1/2 Watt — 0805 Series Ultra-Low Ohmic Resistors for Current Detection Resistor Values – *RoHS Compliant* ***NEW!***

.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 0805, 1/2 Watt	.002 ~ .006, .008 ~ .010	0.5W	1.2	2.0	0.42 ~ 0.28‡	0.6 ~ 0.2‡	RHM(Value)AJCT-ND	21.90	58.92	135.36	RHM(Value)AJTR-ND	466.00/M	PMR10EZPFxxxxx
1%, 0805, 1/2 Watt	.007	0.5W	1.2	2.0	0.42 ~ 0.28‡	0.6 ~ 0.2‡	RHM.007AJCT-ND	10.67	28.72	65.99	RHM.007AJTR-ND	233.00/M	PMR10EZPFU7L00

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR10 5%, 1/2 Watt — 0805 Series Ultra-Low Ohmic Resistors for Current Detection Resistor Values – *RoHS Compliant* ***NEW!***

.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 0805, 1/2 Watt	.002 ~ .010	0.5W	1.2	2.0	0.42 ~ 0.28‡	0.6 ~ 0.2‡	RHM(Value)AKCT-ND	19.05	51.26	117.77	RHM(Value)AKTR-ND	404.00/M	PMR10EZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR18 1%, 3/4 Watt — 1206 Series Ultra-Low Ohmic Resistors for Current Detection Resistor Values – *RoHS Compliant* ***NEW!***

.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1206, 3/4 Watt	.002 ~ .005, .008, .010	0.75W	1.6	3.2	0.42 ~ 0.28‡	0.9 ~ 0.4‡	RHM(Value)ALCT-ND	22.85	61.48	141.23	RHM(Value)ALTR-ND	486.00/M	PMR18EZPFxxxxx
1%, 1206, 3/4 Watt	.006, .009	0.75W	1.6	3.2	0.42 ~ 0.28‡	0.9 ~ 0.4‡	RHM(Value)ALCT-ND	11.15	30.00	68.92	RHM(Value)ALTR-ND	243.00/M	PMR18EZPFxxxxx
1%, 1206, 3/4 Watt	.007	0.75W	1.6	3.2	0.42 ~ 0.28‡	0.9 ~ 0.4‡	RHM.007ALCT-ND	22.69	61.05	140.25	RHM.007ALTR-ND	483.00/M	PMR18EZPFU7L00

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR18 5%, 3/4 Watt — 1206 Series Ultra-Low Ohmic Resistors for Current Detection Resistor Values – *RoHS Compliant* ***NEW!***

.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 1206, 3/4 Watt	.002 ~ .010	0.75W	1.6	3.2	0.42 ~ 0.28‡	0.9 ~ 0.4‡	RHM(Value)AMCT-ND	19.21	51.69	118.75	RHM(Value)AMTR-ND	407.00/M	PMR18EZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! PMR25 1%, 1 Watt — 1210 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1210, 1 Watt	.001	1W	2.5	3.2	0.52 ~ 0.32‡	1.00 ~ 0.80‡	RHM.001APCT-ND	24.27	65.31	150.03	RHM.001APTR-ND	518.00/M	PMR25HZPFxxxxx
1%, 1210, 1 Watt	.002	1W	2.5	3.2	0.52 ~ 0.32‡	1.00 ~ 0.80‡	RHM.002APCT-ND	21.11	56.80	130.48	RHM.002APTR-ND	449.00/M	PMR25HZPFxxxxx
1%, 1210, 1 Watt	.003	1W	2.5	3.2	0.52 ~ 0.32‡	1.00 ~ 0.80‡	RHM.003APCT-ND	16.36	44.03	101.15	RHM.003APTR-ND	345.00/M	PMR25HZPFxxxxx
1%, 1210, 1 Watt	.004 ~ .005	1W	2.5	3.2	0.52 ~ 0.32‡	1.00 ~ 0.80‡	RHM(Value)APCT-ND	23.72	63.83	146.63	RHM(Value)APTR-ND	518.00/M	PMR25HZPFxxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR25 5%, 1 Watt — 1210 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 1210, 1 Watt	.001 ~ .003	1W	2.5	3.2	0.52 ~ 0.32‡	1.00 ~ 0.80‡	RHM(Value)AQCT-ND	9.49	25.53	58.65	RHM(Value)AQTR-ND	207.00/M	PMR25HZPJxxxx
5%, 1210, 1 Watt	.004 ~ .005	1W	2.5	3.2	0.52 ~ 0.32‡	1.2 ~ 0.5	RHM(Value)AQCT-ND	19.53	52.54	120.70	RHM(Value)AQTR-ND	414.00/M	PMR25HZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR50 1%, 1 Watt — 2010 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2010, 1 Watt	.001	1W	2.5	5.0	0.52 ~ 0.32‡	1.90 ~ 0.90‡	RHM.001ASCT-ND	12.65	34.04	78.20	RHM.001ASTR-ND	276.00/M	PMR50HZPFV1L00
1%, 2010, 1 Watt	.002 ~ .004	1W	2.5	5.0	0.52 ~ 0.32‡	1.90 ~ 0.90‡	RHM(Value)ASCT-ND	25.85	69.56	159.80	RHM(Value)ASTR-ND	552.00/M	PMR50HZPFxxxxx
1%, 2010, 1 Watt	.005, .006, .008, .010	1W	2.5	5.0	0.52 ~ 0.32‡	1.90 ~ 0.90‡	RHM(Value)ASCT-ND	24.27	65.31	150.03	RHM(Value)ASTR-ND	518.00/M	PMR50HZPFxxxxx
1%, 2010, 1 Watt	.007, .009	1W	2.5	5.0	0.52 ~ 0.32‡	1.90 ~ 0.90‡	RHM(Value)ASCT-ND	11.86	31.91	73.31	RHM(Value)ASTR-ND	259.00/M	PMR50HZPFxxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR50 5%, 1 Watt — 2010 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 2010, 1 Watt	.001, .004	1W	2.5	5.0	0.52 ~ 0.32‡	1.9 ~ 0.90‡	RHM(Value)ATCT-ND	22.69	61.05	140.25	RHM(Value)ATTR-ND	483.00/M	PMR50HZPJxxxx
5%, 2010, 1 Watt	.002 ~ .003	1W	2.5	5.0	0.52 ~ 0.32‡	1.9 ~ 0.90‡	RHM(Value)ATCT-ND	11.07	29.79	68.43	RHM(Value)ATTR-ND	242.00/M	PMR50HZPJxxxx
5%, 2010, 1 Watt	.005, ~ .008	1W	2.5	5.0	0.52 ~ 0.32‡	1.9 ~ 0.90‡	RHM(Value)ATCT-ND	10.28	27.66	63.54	RHM(Value)ATTR-ND	224.00/M	PMR50HZPJxxxx
5%, 2010, 1 Watt	.009 ~ .010	1W	2.5	5.0	0.52 ~ 0.32‡	1.9 ~ 0.90‡	RHM(Value)ATCT-ND	21.11	56.80	130.48	RHM(Value)ATTR-ND	448.50/M	PMR50HZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR100 1%, 2 Watt — 2512 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2512, 2 Watt	.001 ~ .003	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM(Value)AUCT-ND	25.85	69.56	159.80	RHM(Value)AUTR-ND	552.00/M	PMR100HZPFxxxxx
1%, 2512, 2 Watt	.004	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM.004AUCT-ND	16.36	44.03	101.15	RHM.004AUTR-ND	345.00/M	PMR100HZPFV4L00
1%, 2512, 2 Watt	.005 ~ .008, .010	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM(Value)AUCT-ND	22.69	61.05	140.25	RHM(Value)AUTR-ND	483.00/M	PMR100HZPFxxxxx
1%, 2512, 2 Watt	.009	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM.009AUCT-ND	22.69	61.05	140.25	RHM.009AUTR-ND	483.00/M	PMR100HZPFU9L00

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

NEW! PMR100 5%, 2 Watt — 2512 Series Ultra-Low Ohmic Resistors for Current Detection

Resistor Values – *RoHS Compliant* ***NEW!***

.001	.002	.003	.004	.005	.006	.007	.008	.009	.010

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape & Reel Pricing 2,000	Rohm Part No.
			W	L	T	tb		10	50	200			
5%, 2512, 2 Watt	.001 ~ .002, .004	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM(Value)AVCT-ND	25.85	69.56	159.80	RHM(Value)AVTR-ND	552.00/M	PMR100HZPJxxxx
5%, 2512, 2 Watt	.003	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM.003AVCT-ND	12.65	34.04	78.20	RHM.003AVTR-ND	276.00/M	PMR100HZPJV3L0
5%, 2512, 2 Watt	.005, ~ .007, .009	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM(Value)AVCT-ND	10.28	27.66	63.54	RHM(Value)AVTR-ND	224.00/M	PMR100HZPJxxxx
5%, 2512, 2 Watt	.008, .010	2W	3.2	6.4	0.52 ~ 0.32‡	2.30 ~ 1.10‡	RHM(Value)AVCT-ND	21.11	56.80	130.48	RHM(Value)AVTR-ND	449.00/M	PMR100HZPJxxxx

† For complete part number, substitute value from Resistor Value Chart for (Value). ‡ Each dimension varies with the resistance.

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NEW! PF Series Current Sense Low TCR SMT Chip Resistors

PF and PF-Power Enhancement Series low-resistance current sensors are designed for mini-portable devices and power applications. Yageo's PF current sensor series has a resistance range from 6 ~ 33mΩ in 1% and 5%, a temperature coefficient of 100ppm/°C, and a range of package sizes: 1206 and 2512. It is available in regular and power enhancement wattage levels and is particularly suitable for use in the power management circuit of high-end mobile devices, miniature portable electronics, storage devices, Netbooks and Notebooks.

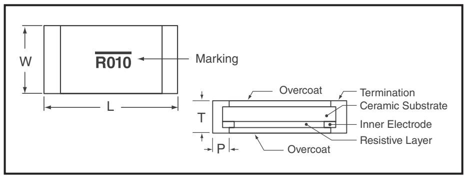

Series	Power Rating @ 70°	Dimensions - mm				Tolerance Rating	Temperature Coefficient
		L	W	T	P		
PF1206	1/2 Watt	3.20	1.60	0.60	0.65	±1%	±100ppm/°C
PF2512	1 and 2 Watts	6.45	3.25	0.70	1.55	±1%	±100ppm/°C

1%, 1/2 Watt — 1206

Resistor Values

0.015	0.01	0.02	0.03

Value Range Ω	Watts	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
			10	50	200		Qty.	Pricing	
0.015 ~ 0.03	1/2	311-(Value)AJCT-ND	3.45	12.22	40.26	311-(Value)AJTR-ND	4,000	94.00/M	PF1206FRF07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1%, 1 and 2 Watts — 2512

Resistor Values

0.006	0.007	0.008	0.015	0.01	0.02	0.033	0.05

Value Range Ω	Watts	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
			10	50	200		Qty.	Pricing	
0.006 ~ 0.033	1	311-(Value)AGCT-ND	8.86	31.37	103.32	311-(Value)AGTR-ND	4,000	251.00/M	PF2512FKF07xxxxxL
0.05	2	311-0.05AHCT-ND	13.44	47.59	156.77	311-0.05AHTR-ND	4,000	385.00/M	PF2512FKF7W0R05L

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

NEW! PR Series Ultra Low Resistance Current Sense SMT Chip Resistors

PR2512 Series resistors are ultra-low resistance current sensors designed for mini portable device applications. Featuring a comprehensive resistance range of 1 ~ 5mΩ and temperature coefficient of 100ppm/°C and 200ppm/°C, the composition of the resistive material is adjusted to give the approximate required resistance and is covered with a protective coating.

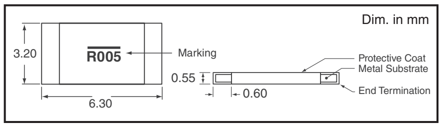

Series	Power Rating @ 70°	Tolerance Rating	Temperature Coefficient
PR2512	1 Watt	±1%	±100ppm/°C and ±200ppm/°C

1%, 1 Watt — 2512

Resistor Values

0.001	0.002	0.003	0.004	0.005

Value Range	Watts	TCR ppm/°C	Digi-Key† Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
				10	50	200	Qty.	Pricing	
0.001 ~ 0.002	1	200	311-(Value)AGCT-ND	9.39	33.26	109.56	4,000	267.00/M	PR2512FKG07xxxxxL
0.003 ~ 0.005	1	100	311-(Value)AGCT-ND	8.86	31.37	103.32	4,000	251.00/M	PR2512FKF07xxxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.
◊ For Tape and Reel part number, change CT-ND to TR-ND.

NEW! PT Series High Power Current Sense SMT Chip Resistors

PT and PT-Power Enhancement series low-resistance current sensors are designed for mini portable devices and power applications. Yageo's PT current sensor series has a resistance range from 100 ~ 910mΩ, a temperature coefficient of 75ppm/°C, 100ppm/°C and 200ppm/°C, and a range of package sizes: 0603/0805/1206/2010/2512. It is available in regular and power enhancement wattage levels and is particularly suitable for use in the power management circuit of high-end mobile devices, miniature portable electronics, storage devices, Netbooks and Notebooks.

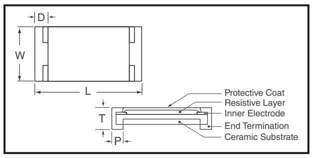

Series	Power Rating @ 70°	Dimensions - mm					Toler-ance Rating	Temperature Coefficient
		L	W	T	D	P		
PT0603	0.1 and 0.2 Watts	1.60	0.80	0.45	0.25	0.25	±1%	±200ppm/°C
PT0805	0.25 Watts	2.00	1.25	0.50	0.35	0.35	±1%	±100ppm/°C
PT1206 (0.1Ω)	0.25 and 0.5 Watts	3.10	1.60	0.55	0.45	0.45	±1%	±100ppm/°C
PT1206 (0.165Ω ~ 0.91Ω)	0.25 and 0.5 Watts	3.10	1.60	0.55	0.45	0.45	±1%	±75ppm/°C
PT2010	1 Watt	5.00	2.50	0.55	0.60	0.50	±1%	±100ppm/°C
PT2512 (0.1Ω ~ 0.15Ω)	1 Watt	6.50	3.30	0.60	0.90	0.70	±1%	±75ppm/°C
PT2512 (0.22Ω ~ 0.4Ω)	1 Watt	6.50	3.30	0.60	0.60	0.50	±1%	±75ppm/°C

1%, 0.1 and 0.2 Watt — 0603

Value Ω	Watts	TCR ppm/°C	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
				10	50	200		Qty.	Pricing	
0.39	0.1	200	311-0.39AKCT-ND	1.22	4.32	14.23	311-0.39AKTR-ND	5,000	29.00/M	PT0603FR-070R39L
0.1	0.2	200	311-0.1ALCT-ND	2.60	9.19	30.28	311-0.1ALTR-ND	5,000	69.00/M	PT0603FR-7W0R1L

1%, 0.25 Watt — 0805

Value Ω	Watts	TCR ppm/°C	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
				10	50	200		Qty.	Pricing	
0.1	0.25	100	311-0.1AMCT-ND	2.73	9.68	31.89	311-0.1AMTR-ND	5,000	73.00/M	PT0805FR-7W0R1L

1%, 0.25 and 0.5 Watt — 1206

Resistor Values

0.1	0.2	0.221	0.25	0.499
0.165	0.22	0.249	0.332	0.91

Value Range Ω	Watts	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
			10	50	200		Qty.	Pricing	
0.1	0.25	311-0.1ANCT-ND	2.33	8.26	27.22	311-0.1ANTR-ND	5,000	61.00/M	PT1206FR-070R1L
0.165 ~ 0.499	0.25	311-(Value)ANCT-ND	1.80	6.37	20.99	311-(Value)ANTR-ND	5,000	45.00/M	PT1206FR-07xxxxxL
0.91	0.5	311-0.91APCT-ND	2.87	10.17	33.50	311-0.91APTR-ND	5,000	77.00/M	PT1206FR-7W0R91L

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1%, 1 Watt — 2010

Value Ω	Watts	TCR ppm/°C	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
				10	50	200		Qty.	Pricing	
0.33	1	75	311-0.33AQCT-ND	6.75	23.90	78.72	311-0.33AQTR-ND	4,000	190.00/M	PT2010FK-7WxxxxL

1%, 1 Watt — 2512

Resistor Values

0.1	0.15	0.22	0.4

Value Range Ω	Watts	TCR ppm/°C	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
				10	50	200		Qty.	Pricing	
0.1 ~ 0.4	1	75	311-(Value)ARCT-ND	4.69	16.62	54.75	311-(Value)ARTR-ND	4,000	130.00/M	PT2512FK-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Thin Film Chip Resistors

Description:
The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive material. The composition of the resistive material is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat and printed with the resistance value. Finally, the two external terminations (matte tin) are added.

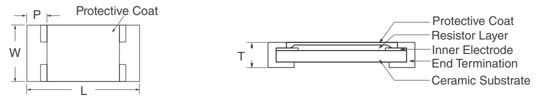

Series	Power Rating @ 70°	Dimensions - mm				Toler-ance Rating	Temperature Coefficient
		L	W	P	T		
RT0603	1/10 Watt	1.6±0.10	.80±0.10	.25±0.15	.45±0.10	0.50%	±25ppm/°C
RT0805	1/8 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	0.50%	±50ppm/°C
RT0402	1/16 Watt	1.00±0.10	.50±0.50	.20±0.10	.35±0.05	0.50%	±50ppm/°C
RJ0805	1/10 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	1%	±50ppm/°C
RJ1206	1/8 Watt	3.10±0.10	1.60±0.10	.45±0.20	.55±0.10	1%	±50ppm/°C
RL0402	1/16 Watt	1.00±0.10	.50±0.05	.20±0.10	.35±0.05	1%	.10Ω ~ .82Ω ±800ppm/°C
RL0603	1/10 Watt	1.60±0.10	.80±0.10	.25±0.15	.45±0.10	1%	.10Ω ~ .47Ω ±800ppm/°C .56Ω ~ .82Ω ±300ppm/°C
RL0805	1/8 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	1%	.10Ω ~ .33Ω ±600ppm/°C .36Ω ~ .47Ω ±300ppm/°C .50Ω ~ .91Ω ±200ppm/°C
RL2512	1 Watt	6.35±0.10	3.20±0.15	.60±0.20	.55±0.10	1%	.01Ω ~ .015Ω ±1500ppm/°C .018Ω ~ .039Ω ±1200ppm/°C .047Ω ±800ppm/°C

1% 1/16 Watt —
0402 Series, Low Ohmic

Resistor Values

.10	.15	.22	.33	.47	.68
.12	.18	.27	.39	.56	.82

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
.10	311-.10PCT-ND	8.61	23.16	53.21	311-.10PTR-ND	10,000	158.00/M	RL0402FR-07xxxxL
.12 ~ 47	311-(Value)PCT-ND	6.38	17.17	39.45	311-(Value)PTR-ND	10,000	115.00/M	RL0402FR-07xxxxL
.56 ~ .82	311-(Value)PCT-ND	3.47	9.34	21.46	311-(Value)PTR-ND	10,000	57.00/M	RL0402FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

.5% 1/16 Watt — 0402 Series

Resistor Values

10	20	30	36	47	51	56.2	68
15	27	33	39	49.9	56	62	82

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
10 ~ 82	311-(Value)UCT-ND	1.59	4.27	9.81	311-(Value)UTR-ND	10,000	20.00/M	RT0402DRE07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1/10 Watt —
0603 Series, Low Ohmic

Resistor Values

.10	.15	.22	.33	.47	.68
.12	.18	.27	.39	.56	.82

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
.10	311-.10QCT-ND	8.61	23.16	53.21	311-.10QTR-ND	5,000	176.00/M	RL0603FR-07xxxxL
.12 ~ .47	311-(Value)QCT-ND	6.38	17.17	39.45	311-(Value)QTR-ND	5,000	127.00/M	RL0603FR-07xxxxL
.56 ~ .82	311-(Value)QCT-ND	3.47	9.34	21.46	311-(Value)QTR-ND	5,000	64.00/M	RL0603FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

.5% 1/10 Watt — 0603 Series

Resistor Values

100	182	348	510	806	1.4K	2.21K	3.16K	4.87K	6.8K	9.1K	14K	20K	27.4K	37.4K	53.6K	78.7K	140K	249K
110	200	360	560	820	1.47K	2.4K	3.32K	4.99K	6.81K	9.31K	15K	20.5K	28K	39K	56K	80.6K	147K	255K
120	210	390	562	825	1.5K	2.43K	3.4K	5.1K	6.98K	10K	15.8K	21K	28.7K	40.2K	56.2K	82K	150K	270K
121	220	392	590	845	1.6K	2.49K	3.57K	5.11K	7.15K	10.2K	16K	21.5K	29.4K	43K	59K	84.5K	160K	300K
124	221	402	604	910	1.62K	2.55K	3.6K	5.36K	7.5K	10.5K	16.2K	22K	30K	43.2K	60.4K	90.9K	165K	301K
130	240	422	619	1.0K	1.69K	2.67K	3.9K	5.49K	8.06K	11K	16.5K	22.1K	30.1K	44.2K	61.9K	91K	178K	309K
147	267	430	620	1.1K	1.78K	2.7K	3.92K	5.6K	8.2K	11.5K	17.4K	22.6K	32.4K	47K	62K	100K	180K	324K
150	274	432	649	1.2K	1.8K	2.74K	4.02K	5.62K	8.25K	12K	17.8K	23.2K	33K	47.5K	66.5K	107K	200K	330K
154	300	464	680	1.21K	1.96K	2.87K	4.22K	5.9K	8.45K	12.1K	18K	24K	33.2K	48.7K	68K	110K	220K	332K
160	301	470	681	1.24K	2.0K	3.0K	4.3K	6.04K	8.66K	12.4K	18.2K	24.3K	34K	51K	68.1K	120K	221K	
165	330	475	715	1.3K	2.1K	3.01K	4.7K	6.2K	8.87K	13K	18.7K	24.9K	34.8K	51.1K	69.8K	124K	240K	
180	332	499	750	1.37K	2.2K	3.09K	4.75K	6.34K	9.09K	13.3K	19.6K	27K	36K	52.3K	75K	130K	243K	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
100 ~ 332K	311-(Value)DCT-ND	1.69	4.56	10.47	311-(Value)DTR-ND	5,000	25.00/M	RT0603DRD07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1/10 Watt —
0805 Series

Resistor Values

3.0	5.1	5.6	6.2	6.8	7.5	8.2	9.1	10

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
3.0 ~ 10	311-(Value)VCT-ND	1.10	2.95	6.77	311-(Value)VTR-ND	5,000	12.00/M	RJ0805FRExxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1/8 Watt — 0805 Series, Low Ohmic

Resistor Values

.10	.13	.18	.24	.33	.43	.51	.68	.91
.11	.15	.20	.27	.36	.47	.56	.75	
.12	.16	.22	.30	.39	.50	.62	.82	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
.10, .51 ~ .91	311-(Value)SCT-ND	8.61	23.16	53.21	311-(Value)STR-ND	5,000	176.00/M	RL0805FR-07xxxxL
.11 ~ .50	311-(Value)SCT-ND	6.38	17.17	39.45	311-(Value)STR-ND	5,000	127.00/M	RL0805FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

.5% 1/8 Watt — 0805 Series

Resistor Values

10	12.4	16	20	22.6	27	30.1	36	43	49.9	61.9	75	82.5
11	13	18	21.5	24	27.4	32.4	39	47	51	62	80.6	91
12	15	19.6	22	24.9	30	33	40.2	47.5	56	68	82	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
10 ~ 91	311-(Value)BCT-ND	1.62	4.37	10.03	311-(Value)BTR-ND	5,000	23.00/M	RT0805DRE07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1/8 Watt —
1206 Series

Resistor Values

3.0	3.3	3.9

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Yageo Part No.
		10	50	200	
3.0 ~ 3.9	311-(Value)NCT-ND	1.22	3.29	7.55	RJ1206FRExxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1 Watt —
2512 Series, Low Ohmic

Resistor Values

.010	.015	.018	.022	.027	.033	.039	.047

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
.010	311-.010TCT-ND	5.03	17.80	58.63	311-0.10TTR-ND	4,000	140.00/M	RL2512FK-07xxxxL
.015 ~ .047	311-(Value)TCT-ND	5.03	17.80	58.63	311-(Value)TTR-ND	4,000	140.00/M	RL2512FK-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Surface Mount 1% & 5% Thick Film Chip Resistors

Description: The resistors are constructed on a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste which is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance, by laser cutting of the resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outer layer of these end terminations is a lead/tin alloy. End terminations on RoHS Compliant parts are pure tin.

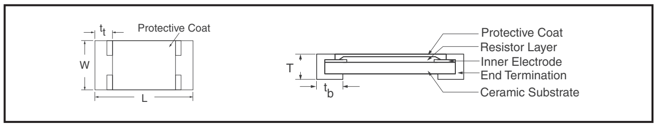

Size	Power Rating @ 70°	Working Voltage (Max.)	Dimensions – mm					Tolerance Rating	Temperature Coefficient
			L	W	T	tt	tb		
01005	1/32	15V	0.40	0.20	0.13	0.10	0.10	5% 1%	±250ppm/°C ±250ppm/°C
0201	1/20W	25V	0.60	0.30	0.23	0.10	0.15	5% 1%	1Ω ≤ R ≤ 10Ω -100/+350ppm/°C 10Ω < R ≤ 10MΩ ±200 ppm/°C
0402	1/16W	50V	1.00	0.50	0.35	0.20	0.25	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C 1Ω < R ≤ 10MΩ ±200ppm/°C
0603	1/10W	50V	1.60	0.80	0.45	0.25	0.25	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C
0805	1/8W	150V	2.00	1.25	0.50	0.35	0.35	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C
1206	1/4 W	200V	3.10	1.60	0.55	0.45	0.40	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C

NEW! 1% 1/32 Watt — 01005 Series

Resistor Values

4.2	20	33	43.2	100	169	680	2.2K	6.34K	34K	49.9K	100K	150K	200K	221K	470K	1.0M
10	22	33.2	44.2	150	200	1.0K	4.7K	24.9K	47.5K	66.5K	121K	165K	220K	390K	475K	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
RoHS Compliant								
4.2 ~ 1.0M	311-(Value)DGCT-ND	3.64	9.81	22.53	311-(Value)DGTR-ND	5,000	67.50/M	RC0100FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

NEW! 5% 1/32 Watt — 01005 Series

Resistor Values

0.0	22	47	180	220	1.5K	3.9K	4.7K	10K	20K	330K	390K	470K	1.0M

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
RoHS Compliant								
0.0 ~ 1.0M	311-(Value)DHCT-ND	1.99	5.37	12.33	311-(Value)DHTR-ND	5,000	31.50/M	RC0100JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1% 1/20 Watt — 0201 Series

Resistor Values

0.0	10.2	10.7	12.1	12.7	33.0	100	105	120	124	4.70K	10.0K	10.5K	12.0K	12.4K	18.0K	100K	105K	120K	124K
10.0	10.5	12.0	12.4	15.0	56.2	102	107	121	127	5.90K	10.2K	10.7K	12.1K	12.7K	51.0K	102K	107K	121K	127K

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
RoHS Compliant								
0.0 ~ 127K	311-(Value)MCT-ND	1.18	3.17	7.29	311-(Value)MTR-ND	10,000	12.00/M	RC0201FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

5% 1/20 Watt — 0201 Series

Resistor Values

0.0	12	24	47	110	160	220	300	470	1K	1.3K	1.8K	3K	4.3K	10K	15K	22K	30K	51K	110K	220K	330K
10	20	30	51	120	180	240	330	560	1.1K	1.5K	2K	3.3K	4.7K	11K	18K	24K	33K	68K	120K	240K	470K
11	22	33	100	150	200	270	390	680	1.2K	1.6K	2.2K	3.9K	5.6K	12K	20K	27K	47K	100K	200K	300K	1M

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Pricing	
RoHS Compliant								
0.0 ~ 1M	311-(Value)NCT-ND	.92	2.48	5.70	311-(Value)NTR-ND	10,000	7.00/M	RC0201JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

1%, 1/16 Watt — 0402 Series

Resistor Values

1.00	22.0	39.0	68.1	180	332	511	1.00K	1.82K	3.01K	4.64K	6.49K	8.87K	11.3K	15.0K	20.0K	27.0K	36.0K	45.3K	51.1K	64.9K	88.7K	110K	180K	240K	332K	510K	1.00M
1.50	24.9	49.9	75.0	220	430	560	1.10K	1.96K	3.30K	5.10K	6.80K	9.10K	11.5K	16.0K	21.0K	28.0K	39.0K	46.4K	53.6K	68.0K	90.9K	120K	187K	249K	360K	560K	3.30M
2.20	26.1	51.0	100	280	464	620	1.20K	2.20K	3.74K	5.36K	7.50K	9.53K	12.0K	16.2K	22.0K	30.0K	39.2K	47.0K	56.0K	78.7K	91.0K	121K	200K	261K	430K	562K	3.60M
3.30	28.0	56.0	120	300	470	680	1.21K	2.21K	3.90K	5.49K	7.87K	10.0K	12.1K	17.4K	22.1K	30.1K	40.2K	47.5K	60.4K	80.6K	95.3K	124K	210K	270K	442K	620K	
4.70	33.0	62.0	150	301	499	715	1.50K	2.40K	3.92K	5.62K	8.06K	10.7K	13.0K	18.0K	24.9K	33.0K	42.2K	49.9K	61.9K	82.0K	97.6K	127K	220K	300K	470K	649K	
10.0	36.0	68.0	160	330	510	910	1.80K	2.70K	4.30K	6.20K	8.20K	11.0K	14.0K	19.1K	26.1K	35.7K	43.0K	51.0K	62.0K	82.5K	100K	150K	226K	301K	499K	768K	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
26.1 ~ 768K	311-(Value)LCT-ND	.67	1.81	4.17	—	—	—	9C04021AxxxxFLHF3
RoHS Compliant								
1.00 ~ 3.60M	311-(Value)LRCT-ND	.67	1.81	4.17	311-(Value)LRTR-ND	10,000	2.43/M	RC0402FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0402 Series
1% Thick Film Chip Resistor Kits - 1/16 Watt — RoHS Compliant

PHL1-KIT-ND	50 each of values 1.00Ω ~ 75.0Ω, 17 values (850 total pieces)	**$20.95**
PHL2-KIT-ND	50 each of values 100Ω ~ 910Ω, 22 values (1,100 total pieces)	**$25.95**
PHL3-KIT-ND	50 each of values 1.00KΩ ~ 9.53KΩ, 33 values (1,650 total pieces)	**$35.95**
PHL4-KIT-ND	50 each of values 10.0KΩ ~ 97.6KΩ, 56 values (2,800 total pieces)	**$59.95**
PHL5-KIT-ND	50 each of values 100KΩ ~ 1.00MΩ, 32 values (1,600 total pieces)	**$39.95**

5%, 1/16 Watt — 0402 Series

Resistor Values

0.0	2.2	4.3	8.2	18	30	43	68	100	200	300	430	620	1.0K	2.0K	3.0K	4.3K	6.2K	10K	18K	30K	47K	82K	150K	270K	470K	1.5M
1.0	3.0	4.7	10	20	33	47	75	150	220	330	470	680	1.2K	2.2K	3.3K	4.7K	6.8K	11K	22K	33K	56K	100K	180K	300K	560K	3.0M
1.1	3.3	5.1	12	22	36	51	82	160	240	360	510	820	1.5K	2.4K	3.6K	5.1K	7.5K	12K	24K	39K	62K	110K	200K	330K	680K	3.3M
2.0	3.9	5.6	15	27	39	56	91	180	270	390	560	910	1.8K	2.7K	3.9K	5.6K	8.2K	15K	27K	43K	68K	120K	220K	430K	1.0M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.0 ~ 3.3M	311-(Value)JCT-ND	.80	2.15	4.93	—	—	—	9C04021AxxxxJLHF3
RoHS Compliant								
0.0 ~ 3.3M	311-(Value)JRCT-ND	.66	1.77	4.07	311-(Value)JRTR-ND	10,000	2.14/M	RC0402JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0402 Series
5% Thick Film Chip Resistor Kits - 1/16 Watt — RoHS Compliant

PHJ1A-KIT-ND	50 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. ~ 1.0MΩ 52 values (2,600 total pcs.)	**$45.95**
PHJ1-KIT-ND	200 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. ~ 1.0MΩ 52 values (10,400 total pcs.)	**$85.95**
PHJ2A-KIT-ND	50 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. ~ 680KΩ 51 values (2,550 total pcs.)	**$45.95**
PHJ2-KIT-ND	200 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. ~ 680KΩ 51 values (10,200 total pcs.)	**$85.95**

(Continued)

1%, 1/10 Watt — 0603 Series

Resistor Values

1.00	10.2	16.9	27.0	42.2	64.9	107	178	280	432	680	1.10K	1.80K	2.87K	4.42K	6.81K	11.3K	18.2K	29.4K	45.3K	71.5K	118K	191K	301K	470K	732K	3.01M
2.00	10.5	17.4	27.4	43.0	66.5	110	180	287	442	681	1.13K	1.82K	2.94K	4.53K	6.98K	11.5K	18.7K	30.0K	46.4K	73.2K	120K	196K	309K	475K	750K	4.70M
2.10	10.7	17.8	28.0	43.2	68.0	113	182	294	453	698	1.15K	1.87K	3.00K	4.64K	7.15K	11.8K	19.1K	30.1K	47.0K	75.0K	121K	200K	316K	487K	768K	4.75M
2.15	11.0	18.0	28.7	44.2	68.1	115	187	300	464	715	1.18K	1.91K	3.01K	4.70K	7.32K	12.0K	19.6K	30.9K	47.5K	76.8K	124K	205K	324K	499K	787K	10.0M
2.21	11.3	18.2	29.4	45.3	69.8	118	191	301	470	732	1.20K	1.96K	3.09K	4.75K	7.50K	12.1K	20.0K	31.6K	48.7K	78.7K	127K	210K	330K	510K	806K	
2.43	11.5	18.7	30.0	46.4	71.5	120	196	309	475	750	1.21K	2.00K	3.16K	4.87K	7.68K	12.4K	20.5K	32.4K	49.9K	80.6K	130K	215K	332K	511K	820K	
2.49	11.8	19.1	30.1	47.0	73.2	121	200	316	487	768	1.24K	2.05K	3.24K	4.99K	7.87K	12.7K	21.0K	33.0K	51.0K	82.0K	133K	220K	340K	523K	825K	
2.74	12.0	19.6	30.9	47.5	75.0	124	205	324	499	787	1.27K	2.10K	3.30K	5.10K	8.06K	13.0K	21.5K	33.2K	51.1K	82.5K	137K	221K	348K	536K	845K	
3.01	12.1	20.0	31.6	48.7	76.8	127	210	330	510	806	1.30K	2.15K	3.32K	5.11K	8.20K	13.3K	22.0K	34.0K	52.3K	84.5K	140K	226K	357K	549K	866K	
3.32	12.4	20.5	32.4	49.9	78.7	130	215	332	511	820	1.33K	2.20K	3.40K	5.23K	8.25K	13.7K	22.1K	34.8K	53.6K	86.6K	143K	232K	360K	560K	887K	
3.92	12.7	21.0	33.0	51.0	80.6	133	220	340	523	825	1.37K	2.21K	3.48K	5.36K	8.45K	14.0K	22.6K	35.7K	54.9K	88.7K	147K	237K	365K	562K	909K	
4.02	13.0	21.5	33.2	51.1	82.0	137	221	348	536	845	1.40K	2.26K	3.57K	5.49K	8.66K	14.3K	23.2K	36.0K	56.2K	90.9K	150K	240K	374K	576K	910K	
4.42	13.3	22.0	34.0	52.3	82.5	140	226	357	549	866	1.43K	2.32K	3.60K	5.60K	8.87K	14.7K	23.7K	36.5K	57.6K	91.0K	154K	243K	383K	590K	931K	
4.75	13.7	22.1	34.8	53.6	84.5	143	232	360	560	887	1.47K	2.37K	3.65K	5.62K	9.09K	15.0K	24.0K	37.4K	59.0K	93.1K	158K	249K	390K	604K	953K	
4.99	14.0	22.6	35.7	54.9	88.7	147	237	365	562	909	1.50K	2.40K	3.74K	5.76K	9.10K	15.4K	24.3K	38.3K	60.4K	95.3K	160K	255K	392K	619K	976K	
5.11	14.3	23.2	36.0	56.0	90.9	150	240	374	576	910	1.54K	2.43K	3.83K	5.90K	9.31K	15.8K	24.9K	39.0K	61.9K	97.6K	162K	261K	402K	620K	1.00M	
5.23	14.7	23.7	36.5	56.2	91.0	154	243	383	590	931	1.58K	2.49K	3.90K	6.04K	9.53K	16.0K	25.5K	39.2K	62.0K	100K	165K	267K	412K	634K	1.20M	
5.62	15.0	24.0	37.4	57.6	93.1	158	249	390	604	953	1.60K	2.55K	3.92K	6.19K	9.76K	16.2K	26.1K	40.2K	63.4K	102K	169K	270K	422K	649K	1.21M	
5.76	15.4	24.3	38.3	59.0	95.3	160	255	392	619	976	1.62K	2.61K	4.02K	6.20K	10.0K	16.5K	26.7K	41.2K	64.9K	105K	174K	274K	430K	665K	1.50M	
6.04	15.8	24.9	39.0	60.4	97.6	162	261	402	620	1.00K	1.65K	2.67K	4.12K	6.34K	10.2K	16.9K	27.0K	42.2K	66.5K	107K	178K	280K	432K	680K	2.00M	
6.81	16.0	25.5	39.2	61.9	100	165	267	412	634	1.02K	1.69K	2.70K	4.22K	6.49K	10.5K	17.4K	27.4K	43.0K	68.0K	110K	180K	287K	442K	681K	2.21M	
7.50	16.2	26.1	40.2	62.0	102	169	270	422	649	1.05K	1.74K	2.74K	4.30K	6.65K	10.7K	17.8K	28.0K	43.2K	68.1K	113K	182K	294K	453K	698K	2.49M	
10.0	16.5	26.7	41.2	63.4	105	174	274	430	665	1.07K	1.78K	2.80K	4.32K	6.80K	11.0K	18.0K	28.7K	44.2K	69.8K	115K	187K	300K	464K	715K	2.94M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
2.10 ~ 5.23	311-(Value)HCT-ND	.77	2.07	4.76	—	—	—	9C06031AxxxxFGHFT
10.2 ~ 976K	311-(Value)HCT-ND	.77	2.07	4.76	—	—	—	9C06031AxxxxFKHFT
RoHS Compliant								
1.00 ~ 10.0M	311-(Value)HRCT-ND	.67	1.81	4.17	311-(Value)HRTR-ND	5,000	2.70/M	RC0603FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0603 Series 1% Thick Film Chip Resistor Kits - 1/10 Watt — RoHS Compliant

PHH1-KIT-ND	50 each of values 1.00Ω ~ 7.50Ω 22 values (1,100 total pieces)	**$19.95**
PHH2-KIT-ND	50 each of values 10.0Ω ~ 97.6Ω 113 values (5,650 total pieces)	**$79.95**
PHH3-KIT-ND	50 each of values 100Ω ~ 976Ω 114 values (5,700 total pieces)	**$79.95**
PHH4-KIT-ND	50 each of values 1.00KΩ ~ 9.76KΩ 114 values (5,700 total pieces)	**$79.95**
PHH5-KIT-ND	50 each of values 10.0KΩ ~ 97.6KΩ 114 values (5,700 total pieces)	**$79.95**
PHH6-KIT-ND	50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)	**$79.95**

5%, 1/10 Watt — 0603 Series

Resistor Values

0.0	1.6	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M
1.0	1.8	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M
1.1	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M
1.2	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	8.2M
1.3	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	10M
1.5	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.1 ~ 8.2M	311-(Value)GCT-ND	.70	1.89	4.34	—	—	—	9C06031AxxxxJLHFT
RoHS Compliant								
0.0 ~ 10M	311-(Value)GRCT-ND	.64	1.74	3.99	311-(Value)GRTR-ND	5,000	2.07/M	RC0603JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0603 Series 5% Thick Film Chip Resistor Kits - 1/10 Watt — RoHS Compliant

PHG1A-KIT-ND	50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (3,600 total pcs.)	**$49.95**
PHG1-KIT-ND	200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (14,400 total pcs.)	**$89.95**
PHG2A-KIT-ND	50 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. ~ 1.0MΩ 72 values (3,600 total pcs.)	**$49.95**
PHG2-KIT-ND	200 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. ~ 1.0MΩ 72 values (14,400 total pcs.)	**$89.95**

1%, 1/8 Watt — 0805 Series

Resistor Values

1.00	2.00	3.90	7.15	14.3	26.7	47.0	84.5	162	301	536	976	1.87K	3.40K	6.04K	11.3K	21.5K	38.3K	68.0K	127K	243K	432K	787K	1.58M	3.24M	6.34M
1.02	2.05	3.92	7.32	14.7	27.0	47.5	86.6	165	309	549	1.00K	1.91K	3.48K	6.19K	11.5K	22.0K	39.0K	68.1K	130K	249K	442K	806K	1.62M	3.30M	6.49M
1.05	2.10	4.02	7.50	15.0	27.4	48.7	88.7	169	316	560	1.02K	1.96K	3.57K	6.20K	11.8K	22.1K	39.2K	69.8K	133K	255K	453K	820K	1.65M	3.32M	6.65M
1.07	2.15	4.12	7.68	15.4	28.0	49.9	90.9	174	324	562	1.05K	2.00K	3.60K	6.34K	12.0K	22.6K	40.2K	71.5K	137K	261K	464K	825K	1.69M	3.40M	6.81M
1.10	2.20	4.22	7.87	15.8	28.7	51.0	91.0	178	330	576	1.07K	2.05K	3.65K	6.49K	12.1K	23.2K	41.2K	73.2K	140K	267K	470K	845K	1.74M	3.48M	6.98M
1.13	2.21	4.32	8.06	16.0	29.4	51.1	93.1	180	332	590	1.10K	2.10K	3.74K	6.65K	12.4K	23.7K	42.2K	75.0K	143K	270K	475K	866K	1.80M	3.57M	7.15M
1.15	2.26	4.42	8.25	16.2	30.0	52.3	95.3	182	340	604	1.13K	2.15K	3.83K	6.80K	12.7K	24.0K	43.0K	76.8K	147K	274K	487K	887K	1.87M	3.65M	7.32M
1.18	2.32	4.53	8.45	16.5	30.1	53.6	97.6	187	348	619	1.15K	2.20K	3.90K	6.81K	13.0K	24.3K	43.2K	78.7K	150K	280K	499K	909K	1.91M	3.74M	7.50M
1.21	2.37	4.64	8.66	16.9	30.9	54.9	100	191	357	620	1.18K	2.21K	3.92K	6.98K	13.3K	24.9K	44.2K	80.6K	154K	287K	510K	931K	1.96M	3.83M	7.68M
1.24	2.43	4.70	8.87	17.4	31.6	56.0	102	196	360	634	1.20K	2.26K	4.02K	7.15K	13.7K	25.5K	45.3K	82.0K	158K	294K	511K	953K	2.00M	3.92M	7.87M
1.27	2.49	4.75	9.09	17.8	32.4	56.2	105	200	365	649	1.21K	2.32K	4.12K	7.32K	14.0K	26.1K	46.4K	82.5K	160K	300K	523K	976K	2.05M	4.02M	8.06M
1.30	2.55	4.87	9.31	18.0	33.0	57.6	107	205	374	665	1.24K	2.37K	4.22K	7.50K	14.3K	26.7K	47.0K	84.5K	162K	301K	536K	1.00M	2.10M	4.12M	8.25M
1.33	2.61	4.99	9.53	18.2	33.2	59.0	110	210	383	680	1.27K	2.40K	4.30K	7.68K	14.7K	27.0K	47.5K	86.6K	165K	309K	549K	1.02M	2.15M	4.22M	8.45M
1.37	2.67	5.11	9.76	18.7	34.0	60.4	113	215	390	681	1.30K	2.43K	4.32K	7.87K	15.0K	27.4K	48.7K	88.7K	169K	316K	560K	1.05M	2.20M	4.32M	8.66M
1.40	2.74	5.23	10.0	19.1	34.8	61.9	115	220	392	698	1.33K	2.49K	4.42K	8.06K	15.4K	28.0K	49.9K	90.9K	174K	324K	562K	1.10M	2.21M	4.42M	8.87M
1.43	2.80	5.36	10.2	19.6	35.7	62.0	118	221	402	715	1.37K	2.55K	4.53K	8.20K	15.8K	28.7K	51.0K	91.0K	178K	330K	576K	1.13M	2.26M	4.53M	9.09M
1.47	2.87	5.49	10.5	20.0	36.0	63.4	120	226	412	732	1.40K	2.61K	4.64K	8.25K	16.0K	29.4K	51.1K	93.1K	180K	332K	590K	1.15M	2.32M	4.64M	9.31M
1.50	2.94	5.60	10.7	20.5	36.5	64.9	121	232	422	750	1.43K	2.67K	4.70K	8.45K	16.2K	30.0K	52.3K	95.3K	182K	340K	604K	1.18M	2.37M	4.70M	9.53M
1.54	3.00	5.62	11.0	21.0	37.4	66.5	124	237	430	768	1.47K	2.70K	4.75K	8.66K	16.5K	30.1K	53.6K	97.6K	187K	348K	619K	1.20M	2.43M	4.75M	9.76M
1.58	3.01	5.76	11.3	21.5	38.3	68.0	127	240	432	787	1.50K	2.74K	4.87K	8.87K	16.9K	30.9K	54.9K	100K	191K	357K	620K	1.21M	2.49M	4.87M	10.0M
1.62	3.09	5.90	11.5	22.0	39.0	68.1	130	243	442	806	1.54K	2.80K	4.99K	9.09K	17.4K	31.6K	56.0K	102K	196K	360K	634K	1.24M	2.55M	4.99M	
1.65	3.16	6.04	11.8	22.1	39.2	69.8	133	249	453	820	1.58K	2.87K	5.10K	9.10K	17.8K	32.4K	56.2K	105K	200K	365K	649K	1.27M	2.61M	5.11M	
1.69	3.24	6.19	12.0	22.6	40.2	71.5	137	255	464	825	1.60K	2.94K	5.11K	9.31K	18.0K	33.0K	57.6K	107K	205K	374K	665K	1.30M	2.67M	5.23M	
1.74	3.32	6.20	12.1	23.2	41.2	73.2	140	267	470	845	1.62K	3.00K	5.23K	9.53K	18.2K	33.2K	59.0K	110K	210K	383K	680K	1.33M	2.74M	5.36M	
1.78	3.40	6.34	12.4	23.7	42.2	75.0	143	270	475	866	1.65K	3.01K	5.36K	9.76K	18.7K	34.0K	60.4K	113K	215K	390K	681K	1.37M	2.80M	5.49M	
1.80	3.48	6.49	12.7	24.0	43.0	76.8	147	274	487	887	1.69K	3.09K	5.49K	10.0K	19.1K	34.8K	61.9K	115K	220K	392K	698K	1.40M	2.87M	5.62M	
1.82	3.57	6.65	13.0	24.3	43.2	78.7	150	280	499	909	1.74K	3.16K	5.60K	10.2K	19.6K	35.7K	62.0K	118K	226K	402K	715K	1.43M	2.94M	5.76M	
1.87	3.65	6.80	13.3	24.9	44.2	80.6	154	287	510	910	1.78K	3.24K	5.62K	10.5K	20.0K	36.0K	63.4K	120K	232K	412K	732K	1.47M	3.01M	5.90M	
1.91	3.74	6.81	13.7	25.5	45.3	82.0	158	294	511	931	1.80K	3.30K	5.76K	10.7K	20.5K	36.5K	64.9K	121K	237K	422K	750K	1.50M	3.09M	6.04M	
1.96	3.83	6.98	14.0	26.1	46.4	82.5	160	300	523	953	1.82K	3.32K	5.90K	11.0K	21.0K	37.4K	66.5K	124K	240K	430K	768K	1.54M	3.16M	6.19M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.02 ~ 9.76	311-(Value)CCT-ND	.80	2.15	4.93	—	—	—	9C08052AxxxxFGHFT
10.2 ~ 9.76M	311-(Value)CCT-ND	.80	2.15	4.93	—	—	—	9C08052AxxxxxFKHFT
RoHS Compliant								
1.00 ~ 10.0M	311-(Value)CRCT-ND	.74	2.00	4.59	311-(Value)CRTR-ND	5,000	4.20/M	RC0805FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0805 Series 1% Thick Film Chip Resistor Kits - 1/8 Watt — RoHS Compliant

PHC1A-KIT-ND	50 each of values 1.00Ω ~ 9.76Ω 104 values (5,200 total pieces)	**$79.95**
PHC1-KIT-ND	200 each of values 1.00Ω ~ 9.76Ω 104 values (20,800 total pieces)	**$169.95**
PHC2A-KIT-ND	50 each of values 10.0Ω ~ 97.6Ω 114 values (5,700 total pieces)	**$79.95**
PHC2-KIT-ND	200 each of values 10.0Ω ~ 97.6Ω 114 values (22,800 total pieces)	**$169.95**
PHC3A-KIT-ND	50 each of values 100Ω ~ 976Ω 114 values (5,700 total pieces)	**$79.95**
PHC3-KIT-ND	200 each of values 100Ω ~ 976Ω 114 values (22,800 total pieces)	**$169.95**
PHC4A-KIT-ND	50 each of values 1.00KΩ ~ 9.76KΩ 114 values (5,700 total pieces)	**$79.95**
PHC4-KIT-ND	200 each of values 1.00KΩ ~ 9.76KΩ 114 values (22,800 total pieces)	**$169.95**
PHC5A-KIT-ND	50 each of values 10.0KΩ ~ 97.6KΩ 113 values (5,650 total pieces)	**$79.95**
PHC5-KIT-ND	200 each of values 10.0KΩ ~ 97.6KΩ 113 values (22,600 total pieces)	**$169.95**
PHC6A-KIT-ND	50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)	**$79.95**
PHC6-KIT-ND	200 each of values 100KΩ ~ 1.00MΩ 115 values (23,000 total pieces)	**$169.95**

(Continued)

5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M
1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.1 - 9.1M	311-(Value)ACT-ND	.70	1.89	4.34	—	—	—	9C08052AxxxxJLHFT
RoHS Compliant								
0.0 - 10M	311-(Value)ARCT-ND	.70	1.89	4.34	311-(Value)ARTR-ND	5,000	3.30/M	RC0805JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 0805 Series 5% Thick Film Chip Resistor Kits - 1/8 Watt — RoHS Compliant

PHA1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, ~ 1.0MΩ, 73 values (3,650 total pieces) **$59.95**
PHA1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, ~ 1.0MΩ, 73 values (14,600 total pieces) ... **$109.95**
PHA2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, ~ 910KΩ, 72 values (3,600 total pieces) **$59.95**
PHA2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, ~ 910KΩ, 72 values (14,400 total pieces) ... **$109.95**

1%, 1/4 Watt — 1206 Series

Resistor Values

1.00	2.15	4.22	8.25	17.8	35.7	68.1	147	300	576	1.20K	2.49K	4.87K	9.76K	21.0K	42.2K	82.5K	178K	357K	681K	1.47M	3.00M	5.76M
1.02	2.20	4.30	8.45	18.0	36.0	69.8	150	301	590	1.21K	2.55K	4.99K	10.0K	21.5K	43.0K	84.5K	180K	360K	698K	1.50M	3.01M	5.90M
1.05	2.21	4.32	8.66	18.2	36.5	71.5	154	309	604	1.24K	2.61K	5.10K	10.2K	22.0K	43.2K	86.6K	182K	365K	715K	1.54M	3.09M	6.04M
1.07	2.26	4.42	8.87	18.7	37.4	73.2	158	316	619	1.27K	2.67K	5.11K	10.5K	22.1K	44.2K	88.7K	187K	374K	732K	1.58M	3.16M	6.19M
1.10	2.32	4.53	9.09	19.1	38.3	75.0	160	324	620	1.30K	2.70K	5.23K	10.7K	22.6K	45.3K	90.9K	191K	383K	750K	1.60M	3.24M	6.20M
1.13	2.37	4.64	9.10	19.6	39.0	76.8	162	330	634	1.33K	2.74K	5.36K	11.0K	23.2K	46.4K	91.0K	196K	390K	768K	1.62M	3.30M	6.34M
1.15	2.40	4.70	9.31	20.0	39.2	78.7	165	332	649	1.37K	2.80K	5.49K	11.3K	23.7K	47.0K	93.1K	200K	392K	787K	1.65M	3.32M	6.49M
1.18	2.43	4.75	9.53	20.5	40.2	80.6	169	340	665	1.40K	2.87K	5.60K	11.5K	24.0K	47.5K	95.3K	205K	402K	806K	1.69M	3.40M	6.65M
1.20	2.49	4.87	9.76	21.0	41.2	82.0	174	348	680	1.43K	2.94K	5.62K	11.8K	24.3K	48.7K	97.6K	210K	412K	820K	1.74M	3.48M	6.80M
1.21	2.55	4.99	10.0	21.5	42.2	82.5	178	357	681	1.47K	3.00K	5.76K	12.0K	24.9K	49.9K	100K	215K	422K	825K	1.78M	3.57M	6.81M
1.24	2.61	5.10	10.2	22.0	43.0	84.5	180	360	698	1.50K	3.01K	5.90K	12.1K	25.5K	51.0K	102K	220K	430K	845K	1.80M	3.60M	6.98M
1.27	2.67	5.11	10.5	22.1	43.2	86.6	182	365	715	1.54K	3.09K	6.04K	12.4K	26.1K	51.1K	105K	221K	432K	866K	1.82M	3.65M	7.15M
1.30	2.70	5.23	10.7	22.6	44.2	88.7	187	374	732	1.58K	3.16K	6.19K	12.7K	26.7K	52.3K	107K	226K	442K	887K	1.87M	3.74M	7.32M
1.33	2.74	5.36	11.0	23.2	45.3	90.9	191	383	750	1.60K	3.24K	6.20K	13.0K	27.0K	53.6K	110K	232K	453K	909K	1.91M	3.83M	7.50M
1.37	2.80	5.49	11.3	23.7	46.4	91.0	196	390	768	1.62K	3.30K	6.34K	13.3K	28.0K	54.9K	113K	237K	464K	910K	1.96M	3.90M	7.68M
1.40	2.87	5.60	11.5	24.0	47.0	93.1	200	392	787	1.65K	3.32K	6.49K	13.7K	28.7K	56.0K	115K	240K	470K	931K	2.00M	3.92M	7.87M
1.43	2.94	5.62	11.8	24.3	47.5	95.3	205	402	806	1.69K	3.40K	6.65K	14.0K	29.4K	56.2K	118K	243K	475K	953K	2.05M	4.02M	8.06M
1.47	3.00	5.76	12.0	24.9	48.7	97.6	210	412	820	1.74K	3.48K	6.80K	14.3K	30.0K	57.6K	120K	249K	487K	976K	2.10M	4.12M	8.20M
1.50	3.01	5.90	12.1	25.5	49.9	100	215	422	825	1.78K	3.57K	6.81K	14.7K	30.1K	59.0K	121K	255K	499K	1.00M	2.15M	4.22M	8.25M
1.54	3.09	6.04	12.4	26.1	51.0	102	220	430	845	1.80K	3.60K	6.98K	15.0K	30.9K	60.4K	124K	261K	510K	1.02M	2.20M	4.30M	8.45M
1.58	3.16	6.19	12.7	26.7	51.1	105	221	432	866	1.82K	3.65K	7.15K	15.4K	31.6K	61.9K	127K	267K	511K	1.05M	2.21M	4.32M	8.66M
1.60	3.24	6.20	13.0	27.0	52.3	107	226	442	887	1.87K	3.74K	7.32K	15.8K	32.4K	62.0K	130K	270K	523K	1.07M	2.26M	4.42M	8.87M
1.62	3.30	6.34	13.3	27.4	53.6	110	232	453	909	1.91K	3.83K	7.50K	16.0K	33.0K	63.4K	133K	274K	536K	1.10M	2.32M	4.53M	9.09M
1.65	3.32	6.49	13.7	28.0	54.9	113	237	464	910	1.96K	3.90K	7.68K	16.2K	33.2K	64.9K	137K	280K	549K	1.13M	2.37M	4.64M	9.10M
1.69	3.40	6.65	14.0	28.7	56.0	115	240	470	931	2.00K	3.92K	7.87K	16.5K	34.0K	66.5K	140K	287K	560K	1.15M	2.40M	4.70M	9.31M
1.74	3.48	6.80	14.3	29.4	56.2	118	243	475	953	2.05K	4.02K	8.06K	16.9K	34.8K	68.0K	143K	294K	562K	1.18M	2.43M	4.75M	9.53M
1.78	3.57	6.81	14.7	30.0	57.6	120	249	487	976	2.10K	4.12K	8.20K	17.4K	35.7K	68.1K	147K	300K	576K	1.20M	2.49M	4.87M	9.76M
1.80	3.60	6.98	15.0	30.1	59.0	121	255	499	1.00K	2.15K	4.22K	8.25K	17.8K	36.0K	69.8K	150K	301K	590K	1.21M	2.55M	4.99M	10.0M
1.82	3.65	7.15	15.4	30.9	60.4	124	261	510	1.02K	2.20K	4.30K	8.45K	18.0K	36.5K	71.5K	154K	309K	604K	1.24M	2.61M	5.10M	
1.87	3.74	7.32	15.8	31.6	61.9	127	267	511	1.05K	2.21K	4.32K	8.66K	18.2K	37.4K	73.2K	158K	316K	619K	1.27M	2.67M	5.11M	
1.91	3.83	7.50	16.0	32.4	62.0	130	270	523	1.07K	2.26K	4.42K	8.87K	18.7K	38.3K	75.0K	160K	324K	620K	1.30M	2.70M	5.23M	
1.96	3.90	7.68	16.2	33.0	63.4	133	274	536	1.10K	2.32K	4.53K	9.09K	19.1K	39.0K	76.8K	162K	330K	634K	1.33M	2.74M	5.36M	
2.00	3.92	7.87	16.5	33.2	64.9	137	280	549	1.13K	2.37K	4.64K	9.10K	19.6K	39.2K	78.7K	165K	332K	649K	1.37M	2.80M	5.49M	
2.05	4.02	8.06	16.9	34.0	66.5	140	287	560	1.15K	2.40K	4.70K	9.31K	20.0K	40.2K	80.6K	169K	340K	665K	1.40M	2.87M	5.60M	
2.10	4.12	8.20	17.4	34.8	68.0	143	294	562	1.18K	2.43K	4.75K	9.53K	20.5K	41.2K	82.0K	174K	348K	680K	1.43M	2.94M	5.62M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.02 - 9.76	311-(Value)FCT-ND	.82	2.22	5.09	—	—	—	9C12063AxxxxFGHFT
10.2 - 9.76M	311-(Value)FCT-ND	.88	2.37	5.44	—	—	—	9C12063AxxxxFKHFT
RoHS Compliant								
1.00 - 10.0M	311-(Value)FRCT-ND	.82	2.22	5.09	311-(Value)FRTR-ND	5,000	5.97/M	RC1206FR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 1206 Series 1% Thick Film Chip Resistor Kits - 1/4 Watt — RoHS Compliant

PHF1A-KIT-ND	50 each of values 1.00Ω ~ 9.76Ω, 114 values (5,700 total pieces)	**$125.95**
PHF1-KIT-ND	200 each of values 1.00Ω ~ 9.76Ω, 114 values (22,800 total pieces)	**$239.95**
PHF2A-KIT-ND	50 each of values 10.0Ω ~ 97.6Ω, 114 values (5,700 total pieces)	**$125.95**
PHF2-KIT-ND	200 each of values 10.0Ω ~ 97.6Ω, 114 values (22,800 total pieces)	**$239.95**
PHF3A-KIT-ND	50 each of values 100Ω ~ 976Ω, 114 values (5,700 total pieces)	**$125.95**
PHF3-KIT-ND	200 each of values 100Ω ~ 976Ω, 114 values (22,800 total pieces)	**$239.95**
PHF4A-KIT-ND	50 each of values 1.00KΩ ~ 9.76KΩ, 114 values (5,700 total pieces)	**$125.95**
PHF4-KIT-ND	200 each of values 1.00KΩ ~ 9.76KΩ, 114 values (22,800 total pieces)	**$239.95**
PHF5A-KIT-ND	50 each of values 10.0KΩ ~ 97.6KΩ, 113 values (5,650 total pieces)	**$125.95**
PHF5-KIT-ND	200 each of values 10.0KΩ ~ 97.6KΩ, 113 values (22,600 total pieces)	**$239.95**
PHF6A-KIT-ND	50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)	**$125.95**
PHF6-KIT-ND	200 each of values 100KΩ ~ 1.00MΩ 115 values (23,000 total pieces)	**$239.95**

5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	2.2	5.1	12	30	75	180	430	1.0K	2.4K	5.6K	13K	33K	75K	180K	430K	1.0M	2.4M	5.6M
1.0	2.4	5.6	13	33	82	200	470	1.1K	2.7K	6.2K	15K	36K	82K	200K	470K	1.1M	2.7M	6.2M
1.1	2.7	6.2	15	36	91	220	510	1.2K	3.0K	6.8K	16K	39K	91K	220K	510K	1.2M	3.0M	6.8M
1.2	3.0	6.8	16	39	100	240	560	1.3K	3.3K	7.5K	18K	43K	100K	240K	560K	1.3M	3.3M	7.5M
1.3	3.3	7.5	18	43	110	270	620	1.5K	3.6K	8.2K	20K	47K	110K	270K	620K	1.5M	3.6M	8.2M
1.5	3.6	8.2	20	51	120	300	680	1.6K	3.9K	9.1K	22K	51K	120K	300K	680K	1.6M	3.9M	9.1M
1.6	3.9	9.1	22	56	130	330	750	1.8K	4.3K	10K	24K	56K	130K	330K	750K	1.8M	4.3M	10M
1.8	4.3	10	24	62	150	360	820	2.0K	4.7K	11K	27K	62K	150K	360K	820K	2.0M	4.7M	
2.0	4.7	11	27	68	160	390	910	2.2K	5.1K	12K	30K	68K	160K	390K	910K	2.2M	5.1M	

Value Range Ω	Digi-Key† Part No.	Cut Tape Pricing			Digi-Key† Part No.	Tape and Reel		Yageo Part No.
		10	50	200		Qty.	Price	
1.1 ~ 9.1M	311-(Value)ECT-ND	.78	2.11	4.85	—	—	—	9C12063AxxxxJLHFT
RoHS Compliant								
0.0 ~ 10M	311-(Value)ERCT-ND	.74	2.00	4.60	311-(Value)ERTR-ND	5,000	4.23/M	RC1206JR-07xxxxL

† For complete part number, substitute the corresponding value from the Resistor Value Chart.

Digi-Key® Assortment Kits 1206 Series 5% Thick Film Chip Resistor Kits - 1/4 Watt — RoHS Compliant

PHE1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (3,600 total pcs.).... **$59.95**
PHE1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (14,400 total pcs.).. **$109.95**
PHE2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. ~ 1.0MΩ 72 values (3,600 total pcs.).... **$59.95**
PHE2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. ~ 1.0MΩ 72 values (14,400 total pcs.).. **$109.95**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® 0201, 0402, 0603, 0805, 1206, 1210, 2010 and 2512
1% Precision Thick Film Chip Resistors
Surface Mount Available in 1/20, 1/10, 1/8, 1/4, 1/2 and 1 Watt

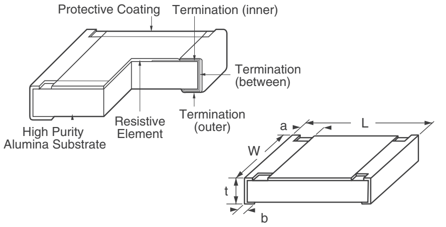

Size	Power Rating at 70°	Maximum RCWV§	Maximum Overload Voltage	Dimensions L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0201	1/20W	15V	30V	0.60	0.30	0.10	0.15	0.23	10 ~ 1MΩ ±200ppm/°C	ERJ-1GEFxxxxC
0402	1/10W	50V	100V	1.00	0.50	0.20	0.25	0.35	10 ~ 1MΩ ±100ppm/°C	ERJ-2RKFxxxxX
0603	1/10W	50V	100V	1.60	0.80	0.30	0.30	0.45	10 ~ 1MΩ ±100ppm/°C	ERJ-3EKFxxxxV
0805	1/8W	150V	200V	2.00	1.25	0.40	0.40	0.60	10 ~ 2.2MΩ ±100ppm/°C	ERJ-6ENFxxxxV
1206	1/4W	200V	400V	3.20	1.60	0.50	0.50	0.60	10 ~ 2.2MΩ ±100ppm/°C	ERJ-8ENFxxxxV
1210	1/4W	200V	400V	3.20	2.50	0.50	0.50	0.60	10 ~ 1MΩ ±100ppm/°C	ERJ-14NFxxxxU
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60	10 ~ 1MΩ ±100ppm/°C	ERJ-12SFxxxxU
2512	1W	200V	400V	6.40	3.20	0.65	0.60	0.60	10 ~ 1MΩ ±100ppm/°C	ERJ-1TNFxxxxU

§ Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or max. RCWV listed above, whichever is less.

0201, 0402, 0603, 0805, 1206 and 1210 Series Standard Resistor Values

10.0	24.9	61.9	154	383	953	2.37K	5.90K	14.7K	36.5K	90.9K	226K	562K
10.2	25.5	63.4	158	392	976	2.43K	6.04K	15.0K	37.4K	93.1K	232K	576K
10.5	26.1	64.9	162	402	1.00K	2.49K	6.19K	15.4K	38.3K	95.3K	237K	590K
10.7	26.7	66.5	165	412	1.02K	2.55K	6.34K	15.8K	39.2K	97.6K	243K	604K
11.0	27.4	68.1	169	422	1.05K	2.61K	6.49K	16.2K	40.2K	100K	249K	619K
11.3	28.0	69.8	174	432	1.07K	2.67K	6.65K	16.5K	41.2K	102K	255K	634K
11.5	28.7	71.5	178	442	1.10K	2.74K	6.81K	16.9K	42.2K	105K	261K	649K
11.8	29.4	73.2	182	453	1.13K	2.80K	6.98K	17.4K	43.2K	107K	267K	665K
12.1	30.1	75.0	187	464	1.15K	2.87K	7.15K	17.8K	44.2K	110K	274K	681K
12.4	30.9	76.8	191	475	1.18K	2.94K	7.32K	18.2K	45.3K	113K	280K	698K
12.7	31.6	78.7	196	487	1.21K	3.01K	7.50K	18.7K	46.4K	115K	287K	715K
13.0	32.4	80.6	200	499	1.24K	3.09K	7.68K	19.1K	47.5K	118K	294K	732K
13.3	33.2	82.5	205	511	1.27K	3.16K	7.87K	19.6K	48.7K	121K	301K	750K
13.7	34.0	84.5	210	523	1.30K	3.24K	8.06K	20.0K	49.9K	124K	309K	768K
14.0	34.8	86.6	215	536	1.33K	3.32K	8.25K	20.5K	51.1K	127K	316K	787K
14.3	35.7	88.7	221	549	1.37K	3.40K	8.45K	21.0K	52.3K	130K	324K	806K
14.7	36.5	90.9	226	562	1.40K	3.48K	8.66K	21.5K	53.6K	133K	332K	825K
15.0	37.4	93.1	232	576	1.43K	3.57K	8.87K	22.1K	54.9K	137K	340K	845K
15.4	38.3	95.3	237	590	1.47K	3.65K	9.09K	22.6K	56.2K	140K	348K	866K
15.8	39.2	97.6	243	604	1.50K	3.74K	9.31K	23.2K	57.6K	143K	357K	887K
16.2	40.2	100	249	619	1.54K	3.83K	9.53K	23.7K	59.0K	147K	365K	909K
16.5	41.2	102	255	634	1.58K	3.92K	9.76K	24.3K	60.4K	150K	374K	931K
16.9	42.2	105	261	649	1.62K	4.02K	10.0K	24.9K	61.9K	154K	383K	953K
17.4	43.2	107	267	665	1.65K	4.12K	10.2K	25.5K	63.4K	158K	392K	976K
17.8	44.2	110	274	681	1.69K	4.22K	10.5K	26.1K	64.9K	162K	402K	1.00M
18.2	45.3	113	280	698	1.74K	4.32K	10.7K	26.7K	66.5K	165K	412K	1.10M
18.7	46.4	115	287	715	1.78K	4.42K	11.0K	27.4K	68.1K	169K	422K	1.20M
19.1	47.5	118	294	732	1.82K	4.53K	11.3K	28.0K	69.8K	174K	432K	1.30M
19.6	48.7	121	301	750	1.87K	4.64K	11.5K	28.7K	71.5K	178K	442K	1.50M
20.0	49.9	124	309	768	1.91K	4.75K	11.8K	29.4K	73.2K	182K	453K	1.60M
20.5	51.1	127	316	787	1.96K	4.87K	12.1K	30.1K	75.0K	187K	464K	1.80M
21.0	52.3	130	324	806	2.00K	4.99K	12.4K	30.9K	76.8K	191K	475K	2.00M
21.5	53.6	133	332	825	2.05K	5.11K	12.7K	31.6K	78.7K	196K	487K	2.20M
22.1	54.9	137	340	845	2.10K	5.23K	13.0K	32.4K	80.6K	200K	499K	
22.6	56.2	140	348	866	2.15K	5.36K	13.3K	33.2K	82.5K	205K	511K	
23.2	57.6	143	357	887	2.21K	5.49K	13.7K	34.0K	84.5K	210K	523K	
23.7	59.0	147	365	909	2.26K	5.62K	14.0K	34.8K	86.6K	215K	536K	
24.3	60.4	150	374	931	2.32K	5.76K	14.3K	35.7K	88.7K	221K	549K	

Additional 0201, 0402, 0603, 0805 and 1206 Series Resistor Values

12.0◆	39.0◆	120◆	390◆	1.20K◆	3.90K◆	12.0K◆	39.0K◆	120K◆	390K◆
16.0◆	43.0◆	160◆	430◆	1.60K◆	4.30K◆	16.0K◆	43.0K◆	160K◆	430K◆
18.0◆	47.0◆	180◆	470◆	1.80K◆	4.70K◆	18.0K◆	47.0K◆	180K◆	470K◆
22.0◆	51.0◆	220◆	510◆	2.20K◆	5.10K◆	22.0K◆	51.0K◆	220K◆	510K◆
24.0◆	56.0◆	240◆	560◆	2.40K◆	5.60K◆	24.0K◆	56.0K◆	240K◆	560K◆
27.0◆	62.0◆	270◆	620◆	2.70K◆	6.20K◆	27.0K◆	62.0K◆	270K◆	620K◆
30.0◆	68.0◆	300◆	680◆	3.00K◆	6.80K◆	30.0K◆	68.0K◆	300K◆	680K◆
33.0◆	82.0◆	330◆	820◆	3.30K◆	8.20K◆	33.0K◆	82.0K◆	330K◆	820K◆
36.0◆	91.0◆	360◆	910◆	3.60K◆	9.10K◆	36.0K◆	91.0K◆	360K◆	910K◆

2010 Series Resistor Values

10.0	28.7	82.5	237	681	1.96K	5.62K	16.2K	46.4K	133K	383K
10.5	30.1	86.6	249	715	2.05K	5.90K	16.9K	48.7K	140K	402K
11.0	31.6	90.9	261	750	2.15K	6.19K	17.8K	51.1K	147K	422K
11.5	33.2	95.3	274	787	2.26K	6.49K	18.7K	53.6K	154K	442K
12.1	34.8	100	287	825	2.37K	6.81K	19.6K	56.2K	162K	464K
12.7	36.5	105	301	866	2.49K	7.15K	20.5K	59.0K	169K	487K
13.3	38.3	110	316	909	2.61K	7.50K	21.5K	61.9K	178K	511K
14.0	40.2	115	332	953	2.74K	7.87K	22.6K	64.9K	187K	536K
14.7	42.2	121	348	1.00K	2.87K	8.25K	23.7K	68.1K	196K	562K
15.4	44.2	127	365	1.05K	3.01K	8.66K	24.9K	71.5K	205K	590K
16.2	46.4	133	383	1.10K	3.16K	9.09K	26.1K	75.0K	215K	619K
16.9	48.7	140	402	1.15K	3.32K	9.53K	27.4K	78.7K	226K	649K
17.8	51.1	147	422	1.21K	3.48K	10.0K	28.7K	82.5K	237K	681K
18.7	53.6	154	442	1.27K	3.65K	10.5K	30.1K	86.6K	249K	715K
19.6	56.2	162	464	1.33K	3.83K	11.0K	31.6K	90.9K	261K	750K
20.5	59.0	169	487	1.40K	4.02K	11.5K	33.2K	95.3K	274K	787K
21.5	61.9	178	511	1.47K	4.22K	12.1K	34.8K	100K	287K	825K
22.6	64.9	187	536	1.54K	4.42K	12.7K	36.5K	105K	301K	866K
23.7	68.1	196	562	1.62K	4.64K	13.3K	38.3K	110K	316K	909K
24.9	71.5	205	590	1.69K	4.87K	14.0K	40.2K	115K	332K	953K
26.1	75.0	215	619	1.78K	5.11K	14.7K	42.2K	121K	348K	1.00M
27.4	78.7	226	649	1.87K	5.36K	15.4K	44.2K	127K	365K	

2512 Series Resistor Values

10.0	27.4	68.1	191	487	1.30K	3.48K	8.87K	24.3K	61.9K	169K	432K
10.5	28.7	71.5	200	510	1.37K	3.60K	9.10K	25.5K	63.4K	178K	453K
11.0	30.0	75.0	210	523	1.43K	3.74K	9.53K	26.7K	66.5K	182K	470K
11.5	30.9	78.7	220	549	1.50K	3.90K	10.0K	27.4K	68.1K	191K	487K
12.0	32.4	82.0	226	562	1.58K	4.02K	10.5K	28.7K	71.5K	200K	510K
12.4	33.2	84.5	237	590	1.62K	4.22K	11.0K	30.0K	75.0K	210K	523K
13.0	34.8	88.7	243	619	1.69K	4.32K	11.5K	30.9K	78.7K	220K	549K
13.7	36.0	91.0	255	634	1.78K	4.53K	12.0K	32.4K	82.0K	226K	562K
14.3	37.4	95.3	267	665	1.82K	4.70K	12.4K	33.2K	84.5K	237K	590K
15.0	39.0	100	274	681	1.91K	4.87K	13.0K	34.8K	88.7K	243K	619K
15.8	40.2	105	287	715	2.00K	5.10K	13.7K	36.0K	91.0K	255K	634K
16.2	42.2	110	300	750	2.10K	5.23K	14.3K	37.4K	95.3K	267K	665K
16.9	43.2	115	309	787	2.20K	5.49K	15.0K	39.0K	100K	274K	681K
17.8	45.3	120	324	820	2.26K	5.62K	15.8K	40.2K	105K	287K	715K
18.2	47.0	124	332	845	2.37K	5.90K	16.2K	42.2K	110K	300K	750K
19.1	48.7	130	348	887	2.43K	6.19K	16.9K	43.2K	115K	309K	787K
20.0	51.0	137	360	910	2.55K	6.34K	17.8K	45.3K	120K	324K	820K
21.0	52.3	143	374	953	2.67K	6.65K	18.2K	47.0K	124K	332K	845K
22.0	54.9	150	390	1.00K	2.74K	6.81K	19.1K	48.7K	130K	348K	887K
22.6	56.2	158	402	1.05K	2.87K	7.15K	20.0K	51.0K	137K	360K	910K
23.7	59.0	162	422	1.10K	3.00K	7.50K	21.0K	52.3K	143K	374K	953K
24.3	61.9	169	432	1.15K	3.09K	7.87K	22.0K	54.9K	150K	390K	1.00M
25.5	63.4	178	453	1.20K	3.24K	8.20K	22.6K	56.2K	158K	402K	
26.7	66.5	182	470	1.24K	3.32K	8.45K	23.7K	59.0K	162K	422K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 4,000	5,000	8,000	10,000	12,000	15,000	25,000	30,000	Panasonic Part No.
0201, 1/20W	10.0 ~ 1.00M	P(Value)ABCT-ND	.12	2.30	3.50	6.50	P(Value)ABTR-ND	15,000	—	—	—	—	—	6.60/M	—	5.80/M	ERJ-1GEFxxxxC
0402, 1/10W	10.0 ~ 1.00M	P(Value)LCT-ND	.06	1.21	1.84	3.41	P(Value)LTR-ND	10,000	—	—	—	3.00/M	—	—	—	—	ERJ-2RKFxxxxX
0603, 1/10W	10.0 ~ 2.20M	P(Value)HCT-ND	.04	.75	1.14	2.11	P(Value)HTR-ND	5,000	—	2.47/M	—	2.15/M	—	—	1.89/M	—	ERJ-3EKFxxxxV
0805, 1/8W	10.0 ~ 2.20M	P(Value)CCT-ND	.07	1.38	2.10	3.90	P(Value)CTR-ND	5,000	—	5.00/M	—	4.00/M	—	—	3.00/M	—	ERJ-6ENFxxxxV
1206, 1/4W	10.0 ~ 2.20M	P(Value)FCT-ND	.10	1.84	2.80	5.20	P(Value)FTR-ND	5,000	—	6.00/M	—	5.00/M	—	—	—	—	ERJ-8ENFxxxxV
1210, 1/4W	10.0 ~ 1.00M	P(Value)AACT-ND	.52	10.28	15.86	30.84	P(Value)AATR-ND	5,000	—	35.00/M	—	33.00/M	—	—	31.00/M	—	ERJ-14NFxxxxU
2010, 1/2W	10.0 ~ 1.00M	P(Value)ACCT-ND	.64	13.23	21.85	43.13	P(Value)ACTR-ND	5,000	—	62.00/M	—	61.00/M	—	—	59.00/M	—	ERJ-12SFxxxxU
2512, 1W	10.0 ~ 1.00M	PT(Value)AFCT-ND	.91	22.32	34.88	76.73	PT(Value)AFTR-ND	4,000	126.00/M	—	124.00/M	—	119.00/M	—	—	—	ERJ-1TNFxxxxU

† For complete part number, substitute the value from Resistor Values chart for (Value). ◆ ***RoHS Compliant***

Panasonic® 1% Chip Resistors

Digi-Key® Assortment Kits

Digi-Key® 0402 1% Chip Resistor Kits

RSM1L-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$189.00**
RSM2L-ND	50 each of Values 100Ω ~ 976Ω	**$189.00**
RSM3L-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$189.00**
RSM4L-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$189.00**
RSM5L-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$189.00**

Digi-Key® 0603 1% Chip Resistor Kits

RSM1H-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$129.00**
RSM2H-ND	50 each of Values 100Ω ~ 976Ω	**$129.00**
RSM3H-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$129.00**
RSM4H-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.00**
RSM5H-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.00**

Digi-Key® 0805 1% Chip Resistor Kits

RSM1CA-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$119.95**
RSM1C-ND	200 each of Values 10.0Ω ~ 97.6Ω	**$299.00**
RSM2CA-ND	50 each of Values 100Ω ~ 976Ω	**$119.95**
RSM2C-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3CA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3C-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4CA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$119.95**
RSM4C-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5CA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$119.95**
RSM5C-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Digi-Key® 1206 1% Chip Resistor Kits

RSM1FA-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$129.95**
RSM1F-ND	200 each of Values 10.0Ω ~ 97.6Ω	**$299.00**
RSM2FA-ND	50 each of Values 100Ω ~ 976Ω	**$129.95**
RSM2F-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3FA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3F-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4FA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.95**
RSM4F-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5FA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.95**
RSM5F-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Panasonic 01005, 0201, 0402, 0603, 0805, 1206, 1210, 2010 and 2512
Surface Mount 5% Thick Film Chip Resistors — 1/32, 1/20, 1/10, 1/8, 1/4, 1/2, 3/4 and 1 Watt

Type	Power Rating	Max. RCWV	Overload Voltage	Dimensions – mm L	W	t	a	b	Temperature Coefficient	Panasonic Part No.
01005	1/32W	15V	30V	0.40	0.20	0.13	0.10	0.10	<100Ω: ±300ppm/°C 100Ω<: ±200ppm/°C	ERJ-XGNJ
0201	1/20W	25V	50V	0.60	0.30	0.23	0.10	0.15	<10Ω: -100ppm/°C ~ +600ppm/°C 10Ω ~ 1MΩ: ±200ppm/°C 1MΩ <: -400ppm/°C ~ +150ppm/°C	ERJ-1GEJ
0402	1/10W	50V	100V	1.00	0.50	0.35	0.20	0.25		ERJ-2GEJ
0603	1/10W	75V	150V	1.60	0.80	0.45	0.30	0.30		ERJ-3GEY
0805	1/8W	150V	200V	2.00	1.25	0.60	0.40	0.40		ERJ-6GEY
1206	1/4W	200V	400V	3.20	1.60	0.60	0.50	0.50		ERJ-8GEY
1210	1/2W	200V	400V	3.20	2.50	0.60	0.50	0.50		ERJ-14Y
2010	3/4W	200V	500V	5.00	2.50	0.60	0.60	0.60		ERJ-12ZY
2512	1W	200V	500V	6.40	3.20	0.60	0.65	0.60		ERJ-1TY

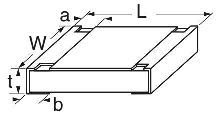

Digi-Key® 1206, 1/4W, 5% Chip Resistor Assortments	Digi-Key® 0805, 1/8W, 5% Chip Resistor Assortments	Digi-Key® 0603, 1/10W, 5% Chip Resistor Assortments	Digi-Key® 0402, 1/10W, 5% Chip Resistor Assortments
CR1A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**	**CR3A-KIT-ND** 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**	**CR5A-KIT-ND** 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$85.95**	**CR7A-KIT-ND** 50 ea. of every other value from 10, 12, 15, 18, 22, etc. 1.0M (3,050) **$89.95**
CR1-KIT-ND 200 ea. (same values as kit above).... **$129.00**	**CR3-KIT-ND** 200 ea. (same values as kit above)..... **$129.00**	**CR5-KIT-ND** 200 ea. (same values as kit above).... **$129.00**	**CR7-KIT-ND** 200 ea. (same values as kit above).... **$169.00**
CR2A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**	**CR4A-KIT-ND** 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**	**CR6A-KIT-ND** 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$85.95**	**CR8A-KIT-ND** 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$89.95**
CR2-KIT-ND 200 ea. (same values as kit above).... **$129.00**	**CR4-KIT-ND** 200 ea. (same values as kit above)..... **$129.00**	**CR6-KIT-ND** 200 ea. (same values as kit above).... **$129.00**	**CR8-KIT-ND** 200 ea. (same values as kit above).... **$169.00**

01005 Series Standard Resistor Values

10	82	680	5.6K	47K	390K
12	100	820	6.8K	56K	470K
15	120	1.0K	8.2K	68K	560K
18	150	1.2K	10K	82K	680K
22	180	1.5K	12K	100K	820K
27	220	1.8K	15K	120K	1.0M
33	270	2.2K	18K	150K	
39	330	2.7K	22K	180K	
47	390	3.3K	27K	220K	
56	470	3.9K	33K	270K	
68	560	4.7K	39K	330K	

0201, 0402, 0603, 0805, 1206, 1210, 2010 and 2512 Series Standard Resistor Values

1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	1.8M	4.7M	15M‡
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	2.0M	5.1M	18M‡
1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K	2.2M	5.6M	22M‡
1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K	2.4M	6.2M	
1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M	2.7M	6.8M	
1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	1.1M	3.0M	7.5M	
1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	1.2M	3.3M	8.2M	
2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	1.3M	3.6M	9.1M	
2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	1.5M	3.9M	10M	
2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	1.6M	4.3M	12M‡	

‡ 12M, 15M, 18M and 22M are 10% Tolerance

Description	Value Range	Digi-Key Part No.§	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.§	Reel Qty.	Tape and Reel Pricing 4,000	5,000	10,000	12,000	15,000	20,000	Panasonic Part No.
01005, 1/32W, 5%	(10 ~ 1.0MΩ)	P(Value)AWCT-ND†	.51	9.91	15.92	30.95	P(Value)AWTR-ND†	20,000	—	—	—	—	—	38.00/M	ERJ-XGNJxxxY
0201, 1/20W, 5%	(1.0 ~ 10MΩ)	P(Value)AGCT-ND†	.09	1.73	2.63	4.88	P(Value)AGTR-ND†	15,000	—	—	—	—	5.00/M	—	ERJ-1GEJxxxC
0402, 1/10W, 5%	(1.0 ~ 10MΩ)	P(Value)JCT-ND†	.05	.86	1.31	2.44	P(Value)JTR-ND†	10,000	—	—	2.00/M	—	—	—	ERJ-2GEJxxxX
0603, 1/10W, 5%	(1.0 ~ 22MΩ)‡	P(Value)GCT-ND†	.03	.52	.79	1.46	P(Value)GTR-ND†	5,000	—	1.71/M	1.49/M	—	—	—	ERJ-3GEYJxxxV
0805, 1/8W, 5%	(1.0 ~ 22MΩ)‡	P(Value)ACT-ND†	.04	.81	1.23	2.28	P(Value)ATR-ND†	5,000	—	3.00/M	2.00/M	—	—	—	ERJ-6GEYJxxxV
1206, 1/4W, 5%	(1.0 ~ 22MΩ)‡	P(Value)ECT-ND†	.06	1.21	1.84	3.41	P(Value)ETR-ND†	5,000	—	4.00/M	3.00/M	—	—	—	ERJ-8GEYJxxxV
1210, 1/2W, 5%	(1.0 ~ 10MΩ)	P(Value)VCT-ND	.34	6.83	10.53	20.48	P(Value)VTR-ND	5,000	—	23.00/M	22.00/M	—	—	—	ERJ-14YJxxxU
2010, 3/4W, 5%	(1.0 ~ 10MΩ)	P(Value)WCT-ND	.45	8.79	14.12	27.45	P(Value)WTR-ND	5,000	—	36.00/M	34.00/M	—	—	—	ERJ-12ZYJxxxU
2512, 1W, 5%	(1.0 ~ 2.2MΩ)	PT(Value)XCT-ND	.87	17.83	29.45	58.13	PT(Value)XTR-ND	4,000	93.00/M	—	—	82.00/M	—	—	ERJ-1TYJxxxU

‡ 12M, 15M, 18M and 22M are 10% tolerance † 0.0Ω (zerohm) value also available § For complete part number, substitute the value from Standard Resistor Values charts for (Value).

Panasonic 5% – 0402, 0603, 0805, 1206, 1210, 2010, 2512 and 1% – 0402, 0603, 0805, 1206, 2512
Surface Mount Ultra Low Ohm Thick Film Chip Resistors — 1/10, 1/8, 1/4, 1/2 and 1 Watt

Rated Continuous Working Voltage (RCWV):
The rated voltage at each resistance should be calculated from the following equation:
$RCWV=\sqrt{P \times R}$
RCWV(V):P(W):R(Ω)
Maximum Overload Voltage = RCWV x 2.5

Type	Type (Power Rating)	Dimensions – mm L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
0402	1/8 Watt (5%, 1%)	1.00	0.50	0.35	0.24	0.24	±300ppm/°C	ERJ-2BWJ/F
0402	1/8 Watt (1%)	1.00	0.50	0.20	0.27	0.35	.1 ~ .20Ω ±300ppm/°C/.22 ~ 1.0Ω + ±250ppm/°C	ERJ-2BS/Q
0603	1/10 Watt	1.6	0.8	0.45	0.30	0.30	.1 ~ .82Ω ±300ppm/°C/1.0 ~ 8.2Ω + ±200ppm/°C	ERJ-3RS/Q
0805	1/8 Watt	2.00	1.25	0.60	0.40	0.40	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1Ω + ±200ppm/°C	ERJ-6RS/Q
0805	1/4 Watt	2.00	1.25	0.60	0.40	0.40	.01 ~ .013Ω ±300ppm/°C/.015 ~ .047Ω ±200ppm/°C	ERJ-6BWJ/F
1206	1/4 Watt	3.20	1.60	0.60	0.50	0.50	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1Ω + ±200ppm/°C	ERJ-8RS/Q
1206	1/2 Watt	3.20	1.60	0.65	1.00	1.00	.01 ~ .043Ω ±200ppm/°C/.047 ~ .10Ω ±100ppm/°C	ERJ-8BWF/J
1210	1/4 Watt	3.20	2.50	0.60	0.50	0.50	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1Ω + ±100ppm/°C	ERJ-14RS/Q
2010	1/2 Watt	5.00	2.50	0.60	0.60	0.60	.22 ~ 1.0Ω ±200ppm/°C	ERJ-12ZQJ
2512	1 Watt	6.40	3.20	0.60	0.65	0.60	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1Ω + ±100ppm/°C	ERJ-1TRS/Q

5% and 1% 0402 Series Standard Resistor Values

.047	.068	.10	.15	.22	.33	.47	.68
.051	.075	.11	.16	.24	.36	.51	.75
.056	.082	.12	.18	.27	.39	.56	.82
.062	.091	.13	.20	.30	.43	.62	.91

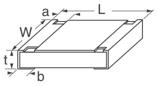

5% – 0603, 1206, 1210, 2010 and 2512 Series; 1% – 0603 and 1206 Series Standard Resistor Values

.010	.013	.018	.024	.033	.043	.056	.075	.10	.18	.33	.56	1.0	1.8	3.3	5.6	9.1
.011	.015	.020	.027	.036	.047	.062	.082	.12	.22	.39	.68	1.2	2.2	3.9	6.8	
.012	.016	.022	.030	.039	.051	.068	.091	.15	.27	.47	.82	1.5	2.7	4.7	8.2	

5% and 1% 0805 Series Standard Resistor Values

.01	.013	.018	.024	.033	.043	.12	.22	.39	.68	1.2	2.2	3.9	6.8
.011	.015	.020	.027	.036	.047	.15	.27	.47	.82	1.5	2.7	4.7	8.2
.012	.016	.022	.030	.039	.10	.18	.33	.56	1.0	1.8	3.3	5.6	9.1

1% – 2512 Series Standard Resistor Values

.22	.30	.39	.51	.68	.91	1.2	1.6	2.2	3.0	3.9	5.1	6.8	9.1
.24	.33	.43	.56	.75	1.0	1.3	1.8	2.4	3.3	4.3	5.6	7.5	
.27	.36	.47	.62	.82	1.1	1.5	2.0	2.7	3.6	4.7	6.2	8.2	

Description	Value Range	Digi-Key Part No.§	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.§	Reel Qty.	Tape and Reel Pricing 4,000	5,000	10,000	12,000	Panasonic Part No.
0402, 1/8W, 5%	(.047 ~ .091Ω)	P(Value)AMCT-ND	.80	19.78	30.90	67.98	P(Value)AMTR-ND	10,000	—	—	105.00/M	—	ERJ-2BWJRxxxX
0402, 1/8W, 1%	(.047 ~ .091Ω)	P(Value)ATCT-ND	.88	18.17	30.02	59.25	P(Value)ATTR-ND	10,000	—	—	83.00/M	—	ERJ-2BWFRxxxX
0402, 1/8W, 1%	(.10 ~ .20Ω)	P(Value)AKCT-ND	.66	13.63	22.52	44.44	P(Value)AKTR-ND	10,000	—	—	63.00/M	—	ERJ-2BSFRxxX
0402, 1/8W, 1%	(.22 ~ .91Ω)	P(Value)AKCT-ND	.63	13.02	21.52	42.47	P(Value)AKTR-ND	10,000	—	—	60.00/M	—	ERJ-2BQFRxxX
0603, 1/10W, 5%	(.10 ~ .18Ω)	P(Value)AHCT-ND	.41	8.18	12.62	24.54	P(Value)AHTR-ND	5,000	—	28.00/M	26.00/M	—	ERJ-3RSJxxxV
0603, 1/10W, 5%	(.22 ~ 8.2Ω)	P(Value)AHCT-ND	.28	5.41	8.23	15.28	P(Value)AHTR-ND	5,000	—	18.00/M	16.00/M	—	ERJ-3RQJxxxV
0603, 1/10W, 1%	(.10 ~ .18Ω)	P(Value)AJCT-ND	.63	12.25	19.69	38.28	P(Value)AJTR-ND	5,000	—	50.00/M	48.00/M	—	ERJ-3RSFxxxV
0603, 1/10W, 1%	(.22 ~ 8.2Ω)	P(Value)AJCT-ND	.40	7.88	12.15	23.63	P(Value)AJTR-ND	5,000	—	27.00/M	25.00/M	—	ERJ-3RQFxxxV
0805, 1/4W, 5%	(.01 ~ .047Ω)	P(Value)ARCT-ND	1.04	27.62	48.34	107.03	P(Value)ARTR-ND	5,000	—	180.00/M	173.00/M	—	ERJ-6BWJRxxxV
0805, 1/8W, 5%	(.10 ~ .18Ω)	P(Value)BCT-ND	.77	15.87	26.22	51.75	P(Value)BTR-ND	5,000	—	75.00/M	73.00/M	—	ERJ-6RSJxxxV
0805, 1/8W, 5%	(.22 ~ 9.1Ω)	P(Value)BCT-ND	.62	12.08	19.41	37.73	P(Value)BTR-ND	5,000	—	49.00/M	47.00/M	—	ERJ-6RQJxxxV
0805, 1/4W, 1%	(.01 ~ .047Ω)	P(Value)AQCT-ND	1.04	38.61	70.96	156.53	P(Value)AQTR-ND	5,000	—	269.00/M	261.00/M	—	ERJ-6BWFRxxxV
0805, 1/8W, 1%	(.22 ~ 9.1Ω)	P(Value)DCT-ND	.56	10.85	17.44	33.91	P(Value)DTR-ND	5,000	—	44.00/M	42.00/M	—	ERJ-6RQFxxxV
1206, 1/2W, 5%	(.010 ~ .10Ω)	P(Value)AVCT-ND	.95	24.31	40.06	88.40	P(Value)AVTR-ND	5,000	—	145.00/M	140.00/M	—	ERJ-8BWJRxxxV
1206, 1/4W, 5%	(.10 ~ .18Ω)	P(Value)PCT-ND	.85	20.88	32.63	71.78	P(Value)PTR-ND	5,000	—	116.00/M	111.00/M	—	ERJ-8RSJxxxV
1206, 1/4W, 5%	(.22 ~ 9.1Ω)	P(Value)PCT-ND	.56	11.50	19.00	37.50	P(Value)PTR-ND	5,000	—	54.00/M	53.00/M	—	ERJ-8RQJxxxV
1206, 1/2W, 1%	(.010 ~ .10Ω)	P(Value)AUCT-ND	1.24	33.16	58.03	128.50	P(Value)AUTR-ND	5,000	—	216.00/M	207.00/M	—	ERJ-8BWFRxxxV
1206, 1/4W, 1%	(.22 ~ 9.1Ω)	P(Value)RCT-ND	.57	11.79	19.48	38.44	P(Value)RTR-ND	5,000	—	55.00/M	54.00/M	—	ERJ-8RQFxxxV
1210, 1/4W, 5%	(.10 ~ .18Ω)	P(Value)SCT-ND	.86	21.12	33.00	72.60	P(Value)STR-ND	5,000	—	117.00/M	112.00/M	—	ERJ-14RSJxxxU
1210, 1/4W, 5%	(.22 ~ 9.1Ω)	P(Value)SCT-ND	.74	15.24	25.18	49.69	P(Value)STR-ND	5,000	—	72.00/M	70.00/M	—	ERJ-14RQJxxxU
2010, 1/2W, 5%	(.22 ~ 1.0Ω)	P(Value)AFCT-ND	.87	21.48	33.56	73.84	P(Value)AFTR-ND	5,000	—	119.00/M	114.00/M	—	ERJ-12ZQJxxxU
2512, 1W, 5%	(.10 ~ .18Ω)	PT(Value)UCT-ND	1.09	40.50	74.43	164.18	PT(Value)UTR-ND	4,000	288.00/M	—	—	274.00/M	ERJ-1TRSJxxxU
2512, 1W, 5%	(.22 ~ 9.1Ω)	PT(Value)UCT-ND	1.09	29.17	51.05	113.03	PT(Value)UTR-ND	4,000	194.00/M	—	—	182.00/M	ERJ-1TRQJxxxU
2512, 1W, 1%	(.22 ~ 9.1Ω)	PT(Value)YCT-ND	1.24	33.00	57.75	127.88	PT(Value)YTR-ND	4,000	219.00/M	—	—	206.00/M	ERJ-1TRQFxxxU

§ For complete part number, substitute the value from Standard Resistor Values charts for (Value).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic SMD Thick Film Chip Resistors / Low Resistance Type

0603, 0805, 1206, 1210, 1812, 2010, 2512 — For Current Sensing Applications

Features: • Operating Temperature: ERJ-L: -55°C ~ 125°C, ERJ-M (0603): -55°C ~ 155°C, ERJ-M (2512): -55°C ~ 170°C (derating required above 70°C) • Resistance Range: 1.0 to100mΩ

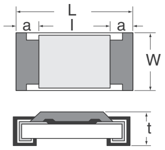

Standard Resistor Values (mΩ) for 0603, 0805, 1206

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
10 (10M)†	47 (47M)	50 (50M)	75 (75M)*	100 (10C)

Standard Resistor Values (mΩ) for 1210, 1812, 2010

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
20 (20M)	25 (25M)	39 (39M)	50 (50M)	100 (10C)
22 (22M)	33 (33M)	47 (47M)	75 (75M)*	

Standard Resistor Values (mΩ) for 2512

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
1.0 (1M0)	4.0 (4M0)	10 (10M)	20 (20M)
1.5 (1M5)	5.0 (5M0)	12 (12M)†	47 (47M)
2.0 (2M0)	6.0 (6M0)	15 (15M)	50 (50M)
3.0 (3M0)	8.0 (8M0)†	16 (16M)†	100 (10C)

* For 75mΩ parts, change K to U in Manufacturer Part Number † Not in Kit

RoHS Compliant Parts Available

Package	Dimensions (mm)				
	L	W	a	t	l
0603 (ERJ-M)	1.60	0.80	0.45	0.35	0.70
0603 (ERJ-L)	1.60	0.80	0.30	0.45	1.00
0805	2.00	1.25	0.40	0.60	1.20
1206	3.20	1.60	0.50	0.60	2.20
1210	3.20	2.50	0.50	0.60	2.20
1812	4.50	3.20	0.50	0.60	3.50
2010	5.00	2.50	0.60	0.60	3.80
2512 (S Type)	6.40	3.20	1.00	0.80	4.40
2512 (T Type)	6.40	3.20	2.10	0.80	2.20
2512 (L Type)	6.40	3.20	0.65	1.10	5.10

Description	Type	Value Range (mΩ)	Temperature Coefficient (ppm/°C)	Digi-Key Part No.‡	Cut Tape Pricing			Digi-Key Part No.‡	Tape and Reel		Panasonic Part No.
					1	50	100		Qty.	Pricing	
0603, 1/10 W, 5%	—	47 ~ 100	±200ppm	P(Value)NJCT-ND	.70	13.65	21.94	P(Value)NJTR-ND	5,000	56.00/M	ERJ-L03KJxxxV
0603, 1/4 W, 1%	—	10	±100ppm	P10AXCT-ND ***NEW!***	.95	35.22	64.74	P10AXTR-ND ***NEW!***	5,000	245.00/M	ERJ-M03NF10MV
0603, 1/10 W, 1%	—	47 ~ 100	±200ppm	P(Value)LJCT-ND	.70	17.28	27.00	P(Value)LJTR-ND	5,000	96.00/M	ERJ-L03KFxxxV
0805, 1/8 W, 5%	—	47 ~ 100	±100ppm	P(Value)NLCT-ND	.60	12.36	20.43	P(Value)NLTR-ND	5,000	58.00/M	ERJ-L06KJxxxV
0805, 1/8 W, 1%	—	47 ~ 100	±100ppm	P(Value)LLCT-ND	.74	18.24	28.50	P(Value)LLTR-ND	5,000	101.00/M	ERJ-L06KFxxxV
1206, 1/4 W, 5%	—	47 ~ 100	±100ppm	P(Value)NPCT-ND	.70	14.38	23.75	P(Value)NPTR-ND	5,000	68.00/M	ERJ-L08KJxxxV
1206, 1/4 W, 1%	—	47 ~ 100	±100ppm	P(Value)LPCT-ND	.91	22.46	35.10	P(Value)LPTR-ND	5,000	124.00/M	ERJ-L08KFxxxV
1210, 1/4 W, 1%	—	20 ~ 39	±300ppm	P(Value)NACT-ND	.83	20.40	31.88	P(Value)NATR-ND	5,000	113.00/M	ERJ-L14KFxxxU
1210, 1/4 W, 1%	—	47 ~100	±100ppm	P(Value)NACT-ND	.83	20.40	31.88	P(Value)NATR-ND	5,000	113.00/M	ERJ-L14KFxxxU
1812, 1/2 W, 1%	—	20 ~ 39	±300ppm	P(Value)NBCT-ND	1.28	34.00	59.50	P(Value)NBTR-ND	5,000	221.00/M	ERJ-L12KFxxxU
1812, 1/2 W, 1%	—	47 ~ 100	±100ppm	P(Value)NBCT-ND	1.28	34.00	59.50	P(Value)NBTR-ND	5,000	221.00/M	ERJ-L12KFxxxU
2010, 1/2 W, 1%	—	47 ~ 100	±100ppm	P(Value)NCCT-ND	1.28	34.00	59.50	P(Value)NCTR-ND	5,000	221.00/M	ERJ-L1DKFxxxU
2512, 1 W, 5%	T	1.0 ~ 1.5	350 ±100ppm	P(Value)TCT-ND	.95	35.15	64.60	P(Value)TTR-ND	3,000	250.00/M	ERJ-M1WTJxxxU
2512, 1 W, 5%	T	2.0	100 ±50ppm	P2.0TCT-ND	.95	35.15	64.60	P2.0TTR-ND	3,000	250.00/M	ERJ-M1WTJ2M0U
2512, 1 W, 5%	S	3.0 ~ 4.0	±350ppm	P(Value)TCT-ND	.95	35.15	64.60	P(Value)TTR-ND	3,000	250.00/M	ERJ-M1WSJxxxU
2512, 1 W, 5%	S	5.0 ~ 20	±100ppm	P(Value)TCT-ND	.95	35.15	64.60	P(Value)TTR-ND	3,000	250.00/M	ERJ-M1WSJxxxU
2512, 1 W, 5%	L	47 ~ 100	±100ppm	P(Value)TCT-ND	.97	35.71	65.62	P(Value)TTR-ND	3,000	254.00/M	ERJ-L1WKJxxxU
2512, 1 W, 1%	T	1.0 ~ 1.5	350 ±100ppm	P(Value)NDCT-ND	1.18	43.57	80.07	P(Value)NDTR-ND	3,000	310.00/M	ERJ-M1WTFxxxU
2512, 1 W, 1%	T	2.0 ~ 4.0	100 ±50ppm	P(Value)NDCT-ND	1.02	27.32	47.81	P(Value)NDTR-ND	3,000	182.00/M	ERJ-M1WTFxxxU
2512, 1 W, 1%	S	3.0 ~ 4.0	±350ppm	P(Value)MCT-ND	1.00	37.00	68.00	P(Value)MTR-ND	3,000	263.00/M	ERJ-M1WSFxxxU
2512, 1 W, 1%	S	5.0 ~ 20	±100ppm	P(Value)MCT-ND	1.00	37.00	68.00	P(Value)MTR-ND	3,000	263.00/M	ERJ-M1WSFxxxU
2512, 1 W, 1%	L	47	±300ppm	P47MCT-ND	1.16	42.74	78.54	P47MTR-ND	3,000	304.00/M	ERJ-L1WKF47MU
2512, 1 W, 1%	L	50 ~ 100	±100ppm	P(Value)MCT-ND	1.16	42.74	78.54	P(Value)MTR-ND	3,000	304.00/M	ERJ-L1WKFxxxU

‡ For complete part number, substitute the corresponding value from the Resistor Value Chart.

0603, 0805, 1206, 1210 1% Current Sensing Low Resistance Resistor Kit

ERJ1-KIT-ND 20 each of 21 Values ***(RoHS Compliant)***... **$39.95**

1812, 2010, 2512 1% Current Sensing Low Resistance Resistor Kit

ERJ2-KIT-ND 20 each of 26 Values ***(RoHS Compliant)*** **$129.95**

Panasonic Anti-Surge Thick Film Chip Resistors

Features:

- Operating Temperature: -55°C ~ 155°C
- Improved Anti-Surge characteristics compared to metal film resistors
- Metal glaze thick film resistive element and three layers of electrodes result in high reliability
- Suitable for both reflow soldering and flow soldering
- Thick film resistor with excellent Anti-Pulse characteristic and high rated power

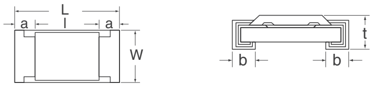

Type	Dimensions (mm)					
	L	W	a	b	t	l
0805	2.00	1.25	0.25	0.40	0.60	1.50
1206	3.20	1.60	0.40	0.50	0.60	2.24
1210	3.20	2.50	0.35	0.50	0.60	2.50

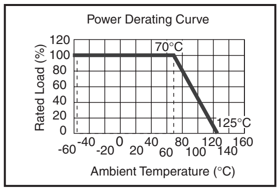

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)1 (V)	Maximum Overload Voltage2 (V)	Resistance Tolerance (%)	Resistance Range (Ω)		Temperature Coefficient x10-6 °C (ppm/°C)	Standard Resistance Values
					Minimum	Maximum		
ERJP06	0.125	150	200	±5	10	30	±300	E24 (3 digits)
ERJP06	0.125	150	200	±5	33	1.0M	±200	E24 (3 digits)
ERJP08	0.25	200	400	±5	10	1.0M	±200	E24 (3 digits)
ERJP14	0.5	200	400	±5	1.0	1.0M	±200	E24 (3 digits)

Standard Resistor Values

1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K
1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K
1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing				Digi-Key Part No.‡	Tape and Reel Pricing			Panasonic Part No.
			1	50	100	250		5,000	10,000	25,000	
0805, 1/4 W, 5%	10 ~ 1.0M	P(Value)ADCT-ND	.23	4.37	6.65	12.35	P(Value)ADTR-ND	14.44/M	12.54/M	11.02/M	ERJ-P06JxxxV
1206, 1/3 W, 5%	10 ~ 1.0M	P(Value)ALCT-ND	.22	4.42	6.82	13.26	P(Value)ALTR-ND	15.15/M	14.14/M	13.44/M	ERJ-P08JxxxV
1210, 1/2 W, 5%	1.0 ~ 1.0M	P(Value)ASCT-ND	.46	9.19	14.18	27.56	P(Value)ASTR-ND	32.00/M	29.00/M	28.00/M	ERJ-P14JxxxU

‡ For complete part number, substitute the corresponding value from the Resistor Value Chart.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Metal Film Thermosensitive Chip Resistors

Features:

Digi-Reel®

- Recommended for temperature correction circuits
- Temperature coefficient value 1000 x 10^{-6}/°C (ppm/°C) to 4700 x 10^{-6}/°C (ppm/°C)
- Quick response to temperature change
- Excellent linear resistance value change in wide temperature range (-40°C ~ 125°C)
- High reliability, high density placing
- Suitable for both reflow soldering and flow soldering

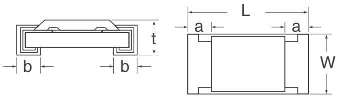

Type	Dimensions – mm				
	L	W	a	b	t
0402	1.00	0.50	0.15	0.25	0.35
0603	1.60	0.80	0.30	0.30	0.45
0805	2.00	1.25	0.40	0.40	0.50

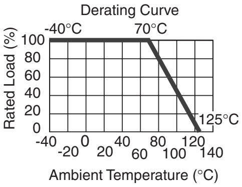

Standard Resistor Values			
5.6	39	270	1.8K
6.8	47	330	2.2K
8.2	56	390	2.7K
10	68	470	3.3K
12	82	560	3.9K
15	100	680	4.7K
18	120	820	5.6K
22	150	1.0K	6.8K
27	180	1.2K	8.2K
33	220	1.5K	10K

Description	TCR (ppm/°C)	Value Range (Ω)	TCR Tolerance	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
0402, 1/32W, 5%	+2700	47 ~ 1.0K	—	P(Value)CLCT-ND	.91	18.60	30.73	P(Value)CLTR-ND	—	85.00/M	—	82.00/M	ERA-W27JxxxX
	+3300	22 ~ 390	—	P(Value)CMCT-ND	.91	18.60	30.73	P(Value)CMTR-ND	—	85.00/M	—	82.00/M	ERA-W33JxxxX
0603, 1/16W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CFCT-ND	.86	21.12	33.00	P(Value)CFTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-V15JxxxV
	+2700	47 ~ 3.3K	±10%	P(Value)CGCT-ND	.86	21.12	33.00	P(Value)CGTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-V27JxxxV
	+3300	22 ~ 1.2K	±10%	P(Value)CHCT-ND	.86	21.12	33.00	P(Value)CHTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-V33JxxxV
	+3900	5.6 ~ 390	±10%	P(Value)CJCT-ND	.86	21.12	33.00	P(Value)CJTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-V39JxxxV
0805, 1/10W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CBCT-ND	.86	21.12	33.00	P(Value)CBTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-S15JxxxV
	+2700	47 ~ 4.7K	±10%	P(Value)CCCT-ND	.86	21.12	33.00	P(Value)CCTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-S27JxxxV
	+3300	22 ~ 1.8K	±10%	P(Value)CDCT-ND	.86	21.12	33.00	P(Value)CDTR-ND	117.00/M	112.00/M	110.00/M	—	ERA-S33JxxxV
	+3900	5.6 ~ 470	±10%	P(Value)CECT-ND	.86	21.12	33.00	P(Value)CETR-ND	117.00/M	112.00/M	110.00/M	—	ERA-S39JxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 1 and 2 Watt – 5% SMD Metal Film Fixed Resistors

Features:

Digi-Reel®

- Non-flammable nature
- High reliability
- Approved under the ISO 9001 system

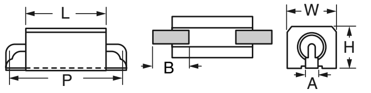

Type	Dimensions – mm					
	P	L	W	H	A	B
1 Watt	12.5	9.0	5.6	5.0	1.5	3.0
2 Watt	15.0	12.0	6.4	5.8	1.5	4.0

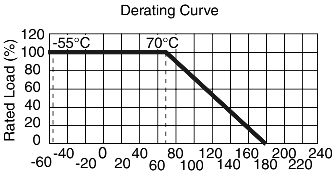

Standard Resistor Values			
.022	.10	.47	2.2
.027	.12	.56	2.7
.033	.15	.68	3.3
.039	.18	.82	3.9
.047	.22	1.0	4.7
.056	.27	1.2	5.6
.068	.33	1.5	6.8
.082	.39	1.8	8.2

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 1,000	2,000	5,000	6,000	Panasonic Part No.
1 Watt, 5%	.022 ~ .082	PRX1W(Value)CT-ND	1.57	62.50	110.88	PRX1W(Value)TR-ND	2,000	—	524.00/M	—	514.00/M	ERX-1HQJxxMH
	.10 ~ .18	PRX1W(Value)CT-ND	1.07	42.36	75.15	PRX1W(Value)TR-ND	2,000	—	355.00/M	—	348.00/M	ERX-1HZJxxxH
	.22 ~ 8.2	PRX1W(Value)CT-ND	1.20	44.55	81.87	PRX1W(Value)TR-ND	2,000	—	317.00/M	—	310.00/M	ERX-1HJxxxH
2 Watt, 5%	.022 ~ .082	PRX2W(Value)CT-ND	1.68	66.84	118.58	PRX2W(Value)TR-ND	1,000	573.00	—	550.00/M	—	ERX-2HQJxxMH
	.10 ~ .18	PRX2W(Value)CT-ND	1.22	48.61	86.24	PRX2W(Value)TR-ND	1,000	417.00	—	400.00/M	—	ERX-2HZJxxxH
	.22 ~ 8.2	PRX2W(Value)CT-ND	1.07	42.36	75.15	PRX2W(Value)TR-ND	1,000	363.00	—	348.00/M	—	ERX-2HJxxxH

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic ERA 0603/0805/1210 .1% Metal Film Chip Resistors

Surface Mount – Available in 1/4, 1/16 and 1/10 Watt

Features:

Digi-Reel®

- High reliability
- Low TCR and current noise
- Excellent non-linearity

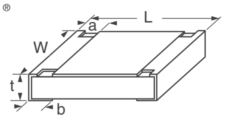

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0603	1/16 Watt	75V	150V	1.60	0.80	0.30	0.30	0.45	±25ppm/°C	ERA-3YE
0805	1/10 Watt	100V	200V	2.00	1.25	0.40	0.40	0.50	±25ppm/°C	ERA-6YE
1210	1/4 Watt	150V	300V	3.20	2.50	0.50	0.50	0.60	±25ppm/°C	ERA-14EB

Standard Resistor Values											
100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K
110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K
120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K
130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	
150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	
160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	
180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	Panasonic Part No.
0603, 1/10W, .1%	100 ~ 33K	P(Value)YCT-ND	.93	22.80	35.63	78.38	P(Value)YTR-ND	5,000	126.00/M	121.00/M	119.00/M	ERA-3YEBxxxV
0805, 1/8W, .1%	100 ~ 100K	P(Value)ZCT-ND	.86	22.00	36.25	80.00	P(Value)ZTR-ND	5,000	132.00/M	126.00/M	124.00/M	ERA-6YEBxxxV
1210, 1/4W, .1%	100 ~ 200K	P(Value)QCT-ND	1.30	34.68	60.69	134.39	P(Value)QTR-ND	5,000	225.00/M	217.00/M	—	ERA-14EBxxxU

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic ERA 0402 .5% and 0402, 0603 and 0805 .1% Metal Film Chip Resistors, High Reliability Type

Features:

- High reliability
- High accuracy
- High performance
- Reference Standard: IEC 60115-8, JIS C 5201-8, EIAJ RC-2133A

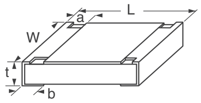

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0402	1/16 Watt (.5%)	25V	50V	1.00	0.50	0.15	0.25	0.35	10 ~ 43Ω ±100ppm/°C	ERA-2AKD
0402	1/16 Watt (.5% and .1%)	25V	50V	1.00	0.50	0.15	0.25	0.35	47 ~ 100K ±25ppm/°C	ERA-2AEB/D
0603	1/10 Watt	75V	150V	1.60	0.80	0.30	0.30	0.45	47 ~ 330K ±25ppm/°C	ERA-3AEB
0805	1/8 Watt	100V	200V	2.00	1.25	0.40	0.40	0.50	47 ~ 1M ±25ppm/°C	ERA-6AEB

Standard Resistor Values

10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K
11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K
12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K
13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K
15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K
16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K
18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K
20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K
22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K
24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K
27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1M

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
0402, 1/16W, .5%	10 ~ 43	P(Value)DDCT-ND	.17	3.34	5.08	9.43	P(Value)DDTR-ND	10,000	—	10.00/M	—	8.00/M	ERA-2AKDxxxX
0402, 1/16W, .5%	47 ~ 100K	P(Value)DECT-ND	.50	9.70	15.58	30.30	P(Value)DETR-ND	10,000	—	38.00/M	—	36.00/M	ERA-2AEDxxxX
0402, 1/16W, .1%	47 ~ 100K	P(Value)DCCT-ND	.65	13.27	21.92	43.27	P(Value)DCTR-ND	10,000	—	61.00/M	—	59.00/M	ERA-2AEBxxxX
0603, 1/10W, .1%	47 ~ 330K	P(Value)DBCT-ND	.54	10.50	16.88	32.81	P(Value)DBTR-ND	5,000	43.00/M	41.00/M	39.00/M	—	ERA-3AEBxxxV
0805, 1/8W, .1%	47 ~ 1M	P(Value)DACT-ND	.54	10.50	16.88	32.81	P(Value)DATR-ND	5,000	43.00/M	41.00/M	39.00/M	—	ERA-6AEBxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic ERA 1210 .5% Metal Film Chip Resistors – 1/4 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity

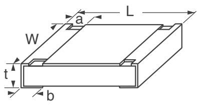

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
1210	1/4 Watt	150V	300V	3.20	2.50	0.50	0.50	0.60	±50ppm/°C	ERA-14H

Standard Resistor Values

10	18	33	56
11	20	36	62
12	22	39	68
13	24	43	75
15	27	47	82
16	30	51	91

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	Panasonic Part No.
1210, 1/4W, .5%	10 ~ 91	P(Value)APCT-ND	.90	22.88	37.70	83.20	P(Value)APTR-ND	5,000	137.00/M	131.00/M	129.00/M	ERA-14HDxxxU

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 5 % Miniature Carbon Film Resistors

Features:

- High reliability using carbon film
- 52mm Axial taping style for automatic inserting machine
- 4 color code marking
- Uses UL 94V-0 approved coating for flame retardant type
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2
- Miniaturized version

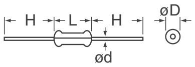

Type	Dimensions – mm L	D	d	H	Mass (mg)
1/4W, 5%	3.20	1.70	0.45	20 minimum	107
1/2W, 5%	6.35	2.30	0.60	20 minimum	228

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Maximum Intermittent Overload Voltage[3] (V)	Dielectric Withstanding Voltage (VAC)	Standard Resistance Value	Resistance Tolerance (%)	Resistance Range (Ω) minimum	maximum
ERDS2T	0.25	250	500	750	300	E24	±5 (J)	0	2.2M
ERDS1T	0.5	300	600	750	500	E24	±5 (J)	1	3.3M

Power Derating Curve

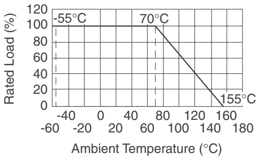

(1) Rated Voltage = $\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.

(3) Intermittent Overload Test Voltage (IOTV) shall be determined from IOTV = 4 x Power Rating (IOTV = 3 x Power Rating for ERDS2 type) or maximum Intermittent Overload Voltage listed above, whichever is less.

Standard Resistor Values

0.0‡	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K	2.0M
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M	2.2M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	1.1M	2.4M§
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	1.2M	2.7M§
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	1.3M	3.0M§
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	1.5M	3.3M§
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	1.6M	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	1.8M	

§ Only available in 1/2 Watt ‡ Not available in 1/2 Watt

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Package Qty.	Tape and Box Pricing 2,000	5,000	6,000	10,000	Panasonic Part No.
ERDS2T 1/4W, 5%	0.0 ~ 2.2M	P(Value)BACT-ND	.09	1.78	2.71	5.04	P(Value)BATB-ND	5,000	—	5.89/M	—	5.12/M	ERD-S2TJxxxV
ERDS1T 1/2W, 5%	1.0 ~ 3.3M	P(Value)BBCT-ND	.14	2.67	4.07	7.56	P(Value)BBTB-ND	2,000	10.70/M	—	8.84/M	7.68/M	ERD-S1TJxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 1% Miniature Metal Film Resistors

Features:

- Low TCR, low noise, high reliability
- Taping style for automatic inserting machine
- 5 color code marking
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2

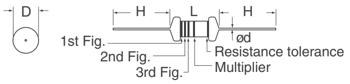

Power Derating Curve

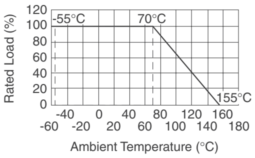

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Dielectric Withstanding Voltage (V)	T.C.R. $x10^{-6}$/°C (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω) min.	Resistance Range (Ω) max.	Resistance Value
EROS2P	0.25	250	500	300	±50	F(±1)	10	1M	E24

Type	Dimensions – mm L	D	d	H	Mass (mg)
1/4W, 1%	3.20	1.70	0.45	30	107

(1) Rated Voltage = $\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above, whichever is less.

Standard Resistor Values

10.0	30.0	82.0	240	680	2.00K	5.60K	16.0K	47.0K	130K	390K
11.0	33.0	91.0	270	750	2.20K	6.20K	18.0K	51.0K	150K	430K
12.0	36.0	100	300	820	2.40K	6.80K	20.0K	56.0K	160K	470K
13.0	39.0	110	330	910	2.70K	7.50K	22.0K	62.0K	180K	510K
15.0	43.0	120	360	1.00K	3.00K	8.20K	24.0K	68.0K	200K	560K
16.0	47.0	130	390	1.10K	3.30K	9.10K	27.0K	75.0K	220K	620K
18.0	51.0	150	430	1.20K	3.60K	10.0K	30.0K	82.0K	240K	680K
20.0	56.0	160	470	1.30K	3.90K	11.0K	33.0K	91.0K	270K	750K
22.0	62.0	180	510	1.50K	4.30K	12.0K	36.0K	100K	300K	820K
24.0	68.0	200	560	1.60K	4.70K	13.0K	39.0K	110K	330K	910K
27.0	75.0	220	620	1.80K	5.10K	15.0K	43.0K	120K	360K	1.00M

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	50	100	250	Digi-Key Part No.†	Package Qty.	Tape and Box Pricing 5,000	10,000	25,000	Panasonic Part No.
EROS2P 1/4W, 1%	10.0 ~ 1.00M	P(Value)CACT-ND	.15	2.88	4.38	8.13	P(Value)CATB-ND	5,000	9.50/M	8.25/M	7.25/M	ERO-S2PHFxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 5% Metal Film Resistors

Now Available In Tape and Reel

Matsushita fixed metal film resistors feature small sized dimensions and have higher power rating at the same size as the conventional type.

Features:

Flame retardancy of the exclusively formulated inorganic insulative material exhibits an equivalent performance requirements of UL 94(VE-0) and when operated at a potential less than 16 times RCWV, Matsushita metal (oxide) film resistors never flame nor arc.

The coating and markings resist normal washing of solvents, such as Freon (TE, TMC, TF), trichloroethane.

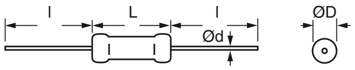

Type	Maximum Working Voltage	Dimensions – mm L	l	D	d
1W	350	9.0	30.0	2.8	0.65
2W	350	12.0	30.0	4.0	0.80
3W	350	15.0	38.0	5.5	0.80

Characteristics:

Temperature Coefficient	R. Wattage of 1, 2, 3 ±350ppm/°C
Voltage Coefficient	25ppm/V Maximum
Insulation Resistance	10,000 MΩ Minimum
Temperature Cycling	±(1% + 0.05Ω) Maximum
Short-time Overload	±(2% + 0.05Ω) Maximum
Humidity (Steady State)	±(2% + 0.05Ω) Maximum
Load Life in Humidity	±(5% + 0.05Ω) Maximum
Load Life	±(5% + 0.05Ω) Maximum
Resistance to Soldering Heat	±(1% + 0.05Ω) Maximum
Vibration Low Frequency	±(1% + 0.05Ω) Maximum
Thermal Shock	±(2% + 0.05Ω) Maximum
Noise	1.0μV/V Maximum

Standard Resistor Values

0.47	1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K
0.51	1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K
0.56	1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K
0.62	1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K
0.68	1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K
0.75	2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K
0.82	2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K
0.91	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	

Description	Digi-Key Part No.†	Pricing 1	50	100	250	500	1,000
1 Watt, Bulk Package, 0.47~68KΩ	P(Value)W-1BK-ND	.34	6.59	9.78	18.76	29.56	40.93
1 Watt, Tape and Reel, 0.47~68KΩ	P(Value)W-1TR-ND‡		180.00/5,000	340.00/10,000	800.00/25,000		
2 Watt, Bulk Package, 0.47~100KΩ	P(Value)W-2BK-ND	.36	7.00	10.28	21.23	35.00	50.64
2 Watt, Tape and Reel, 0.47~100KΩ	P(Value)W-2TR-ND‡		147.00/3,000	264.00/6,000	504.00/12,000	1107.00/27,000	
3 Watt, Bulk Package, 0.47~100KΩ	P(Value)W-3BK-ND	.63	13.57	20.18	42.63	73.08	111.36
3 Watt, Tape and Reel, 0.47~100KΩ	P(Value)W-3TR-ND‡		166.50/1,500	564.00/6,000	966.00/10,500	2269.50/25,500	

† For complete part number, substitute the value from Standard Resistor Values chart for (Value). ‡ Tape and Reel

5 and 10 Watt Wirewound and Metal Oxide Film Rectangular Resistors, 5%

Axial Lead Type • **Operating Temperature Range:** -55°C ~ 155°C

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.

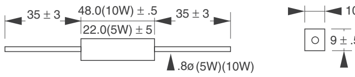

5 Watt Standard Resistor Values

0.30	0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
0.33	0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
0.39	0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	
0.43	0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	
0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	

10 Watt Standard Resistor Values

1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K
1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K

Description	Digi-Key Part No.†	Pricing 1	10	100	1,000	5,000	10,000
5 Watt, 5% Wirewound Rectangular Resistors, Bulk Package, 0.30Ω ~ 180Ω	(Value)W-5-ND	.35	2.93	23.40	140.40	125.78/M	111.15/M
5 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package, 200Ω ~ 2.0KΩ	(Value)W-5-ND	.35	2.93	23.40	140.40	125.78/M	111.15/M
10 Watt, 5% Wirewound Rectangular Resistors, Bulk Package, 1.0Ω ~ 270Ω	(Value)W-10-ND	.52	4.30	34.40	206.40	184.90/M	163.40/M
10 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package, 300Ω ~ 3.0KΩ	(Value)W-10-ND	.52	4.30	34.40	206.40	184.90/M	163.40/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

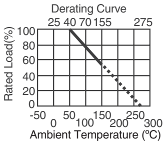

Digi-Key® 5 Watt Resistor Assortment Kit

RS105-ND 0.30Ω ~ 0.91Ω – 5 each 60 Resistors **$23.95**

RS205-ND 1.0Ω ~ 9.1Ω – 4 each 96 Resistors **$32.95**

RS305-ND 10Ω ~ 91Ω – 4 each 96 Resistors.................... **$32.95**

RS405-ND 100Ω ~ 2.0KΩ – 3 each 96 Resistors.................... **$32.95**

Digi-Key® 10 Watt Resistor Assortment Kit

Two each of all 10 watt standard resistor values listed above. A total of 168 resistors.

RS110-ND.................... **$72.95**

Zero Ohm Jumper Wires

Applications: Generally they are used for the following reasons: • Inability to connect two points on a PC Board due to other circuit paths which must be crossed over. • An After-the-Fact design change that requires new point connections. • Circuit tuning by changing point connections.

Specifications: • Maximum Resistance: 0.004Ω on 1/6 watt, 0.003Ω on 1/4 watt • Typical Resistance: 0.002Ω on both • Lead Material: tin-plated copper • Body Material: electrical grade, high performance molding compound • Minimum Insulation Resistance – Dry: 10,000MΩ, Wet: 100MΩ • Minimum Dielectric Withstanding Voltage – Atmospheric: 500V RMS, Reduced: 325V RMS • Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed • Current Rating: 25 Amps at 25°C, derating to 0 Amps at 150°C.

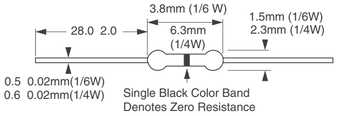

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Description	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	50,000
1/6 Watt, Zerohm Jumper, Bulk Package	0.0EBK-ND	.25	7.92	15.90	14.58/M	13.21/M	12.20/M
1/6 Watt, Zerohm Jumper, Tape and Reel (5,000 Pieces/Reel)	0.0ETR-ND†	—	—	—	17.95/M	16.89/M	13.81/M
1/4 Watt, Zerohm Jumper, Bulk Package	0.0QBK-ND	.35	6.47	13.16	12.11/M	10.98/M	10.14/M
1/4 Watt, Zerohm Jumper, Tape and Reel (5,000 Pieces/Reel)	0.0QTR-ND†	—	—	—	14.18/M	13.34/M	10.95/M

† Tape and Reel

5% Carbon Film Resistors Available In 1/6, 1/4 and 1/2 Watt

CFR Series

Characteristics: • Operating Temperature Range: -55°C ~ 155°C • Solderability: 235°C for 5±0.5 seconds • Short Time Overload: 2.5 Times RCW V for 5 seconds • Resistance To Solvent: Trichroethane for 1 minute with ultrasonic • Pulse Overload: 4 times RCW V 10,000 cycles (1 second on, 25 seconds off)

Standard Resistor Values

1.0	1.6	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K	1.1M	1.8M	3.0M	4.7M	7.5M
1.1	1.8	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K	1.2M	2.0M	3.3M	5.1M	8.2M
1.2	2.0	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K	1.3M	2.2M	3.6M	5.6M	9.1M
1.3	2.2	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K	1.5M	2.4M	3.9M	6.2M	10M
1.5	2.4	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M	1.6M	2.7M	4.3M	6.8M	

Type (Power Rating)	Dimensions - mm L	D	d	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/6 Watt ‡	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	150V	300V	300V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/4 Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/2 Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%

‡ Power rating at 70°C = 1/6W

Features:

- Industry's lowest cost
- Available in 1/6, 1/4 and 1/2 watt; packaged in bulk or tape/reel (1/2 watt in bulk only)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±5%
- Exceptional long-term stability

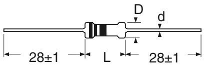

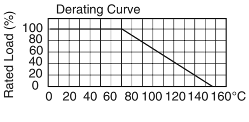

Description	Digi-Key Part No.†	Pricing 5	200	1,000	5,000	10,000	50,000
1/6 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)EBK-ND	.32	5.28	15.31	13.73/M	12.68/M	11.62/M
1/6 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel – Order in multiples of 5,000)	(Value)ETR-ND§	—	—	—	17.16/M	15.84/M	12.68/M
1/4 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)QBK-ND	.35	4.93	11.04	10.49/M	9.76/M	7.92/M
1/4 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel – Order in multiples of 5,000)	(Value)QTR-ND§	—	—	—	11.38/M	10.50/M	8.40/M
1/2 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)H-ND	.31	4.56	14.82	13.68/M	12.54/M	11.40/M

"E" = Sixth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.
† For complete part number, substitute the value from Standard Resistor Values chart for (Value). § Tape and Reel

Digi-Key® 1/6 Watt Resistor Assortment

RSE200-ND 200 each of all standard values 5%, 1/6 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$409.00**

RS112-ND Set of 5 each of 73 standard 5%, 1/6 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).................... **$16.96**

RS212-ND Set of 5 each of the 72 standard 5%, 1/6 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$16.99**

Digi-Key® 1/4 Watt Resistor Assortment

RSQ200-ND 200 each of all standard values 5%, 1/4 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$239.00**

RS125-ND Set of 5 each of 73 standard 5%, 1/4 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).................... **$14.95**

RS225-ND Set of 5 each of the 72 standard 5%, 1/4 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$14.95**

Digi-Key® 1/2 Watt Resistor Assortment

RSH200-ND 200 each of all standard values 5%, 1/2 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$335.00**

RS150-ND Set of 5 each of 73 standard 5%, 1/2 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).................... **$16.95**

RS250-ND Set of 5 each of the 72 standard 5%, 1/2 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$16.95**

1% Metal Film Fixed Resistors 1/4 Watt

MFR Series

The MFR series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

General Specifications:

- **Power Rating:** 1/4 Watt • **Maximum Working Voltage:** 250V • **Maximum Overload Voltage:** 500V • **Rated Ambient Temperature:** 70°C • **Temperature Cycling:** -65°C ~ 150°C • **Resistance Range:** 10.0Ω ~ 1.00MΩ • **Resistance Tolerance:** ±1%.

Electrical Specifications:

All measurements are taken at 25°C at 1KHz and 65% relative humidity, unless stated otherwise. • **Type:** MF-25 • **Style:** RN-55 • **Power Rating:** 1/4 Watt • **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±100PPM/°C

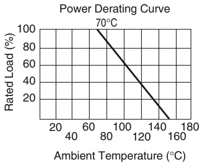
Power Derating Curve

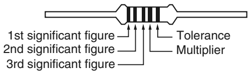

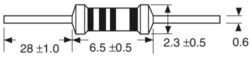

Characteristics

Temperature Cycling, -65°C ~ 150°C	(%)....... ±0.25
Low Temperature Operation, -65°C	(%)....... ±0.25
Short Time Overload	(%)....... ±0.20
Terminal Strength, 5 lb. pull	(%)....... ±0.20
Resistance to Soldering Heat, 350°C	(%)....... ±0.10
Moisture Resistance, Mil Std 202	(%)....... ±0.50
Life 1000 hrs. (Rated Power)	(%)....... ±0.50
Shock, 50G, 11ms	(%)....... ±0.20
Vibration – High Frequency, 10 ~ 2000Hz	(%)....... ±0.20
Insulation Resistance	(%)...... >10¹⁰Ω
Failure-Rate	(%).......10-⁸/h

1% Metal Film Resistors
Digi-Key® Assortment Kits

35% SAVINGS

Over Parts Purchased Separately

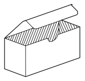

5 Each of Values 10Ω ~ 97.6Ω
RS1X-ND **$29.95**

5 Each of Values 100Ω ~ 976Ω
RS2X-ND **$29.95**

5 Each of Values 1.00KΩ ~ 9.76KΩ
RS3X-ND **$29.95**

5 Each of Values 10.0KΩ ~ 97.6KΩ
RS4X-ND **$29.95**

5 Each of Values 100KΩ ~ 1.00MΩ
RS5X-ND **$29.95**

Standard Resistor Values

10.0	18.7	34.8	64.9	121	226	422	787	1.47K	2.74K	5.11K	9.53K	17.8K	33.2K	61.9K	115K	215K	402K	750K
10.2	19.1	35.7	66.5	124	232	432	806	1.50K	2.80K	5.23K	9.76K	18.2K	34.0K	63.4K	118K	221K	412K	768K
10.5	19.6	36.5	68.1	127	237	442	825	1.54K	2.87K	5.36K	10.0K	18.7K	34.8K	64.9K	121K	226K	422K	787K
10.7	20.0	37.4	69.8	130	243	453	845	1.58K	2.94K	5.49K	10.2K	19.1K	35.7K	66.5K	124K	232K	432K	806K
11.0	20.5	38.3	71.5	133	249	464	866	1.62K	3.01K	5.62K	10.5K	19.6K	36.5K	68.1K	127K	237K	442K	825K
11.3	21.0	39.2	73.2	137	255	475	887	1.65K	3.09K	5.76K	10.7K	20.0K	37.4K	69.8K	130K	243K	453K	845K
11.5	21.5	40.2	75.0	140	261	487	909	1.69K	3.16K	5.90K	11.0K	20.5K	38.3K	71.5K	133K	249K	464K	866K
11.8	22.1	41.2	76.8	143	267	499	931	1.74K	3.24K	6.04K	11.3K	21.0K	39.2K	73.2K	137K	255K	475K	887K
12.1	22.6	42.2	78.7	147	274	511	953	1.78K	3.32K	6.19K	11.5K	21.5K	40.2K	75.0K	140K	261K	487K	909K
12.4	23.2	43.2	80.6	150	280	523	976	1.82K	3.40K	6.34K	11.8K	22.1K	41.2K	76.8K	143K	267K	499K	931K
12.7	23.7	44.2	82.5	154	287	536	1.00K	1.87K	3.48K	6.49K	12.1K	22.6K	42.2K	78.7K	147K	274K	511K	953K
13.0	24.3	45.3	84.5	158	294	549	1.02K	1.91K	3.57K	6.65K	12.4K	23.2K	43.2K	80.6K	150K	280K	523K	976K
13.3	24.9	46.4	86.6	162	301	562	1.05K	1.96K	3.65K	6.81K	12.7K	23.7K	44.2K	82.5K	154K	287K	536K	1.00M
13.7	25.5	47.5	88.7	165	309	576	1.07K	2.00K	3.74K	6.98K	13.0K	24.3K	45.3K	84.5K	158K	294K	549K	
14.0	26.1	48.7	90.9	169	316	590	1.10K	2.05K	3.83K	7.15K	13.3K	24.9K	46.4K	86.6K	162K	301K	562K	
14.3	26.7	49.9	93.1	174	324	604	1.13K	2.10K	3.92K	7.32K	13.7K	25.5K	47.5K	88.7K	165K	309K	576K	
14.7	27.4	51.1	95.3	178	332	619	1.15K	2.15K	4.02K	7.50K	14.0K	26.1K	48.7K	90.9K	169K	316K	590K	
15.0	28.0	52.3	97.6	182	340	634	1.18K	2.21K	4.12K	7.68K	14.3K	26.7K	49.9K	93.1K	174K	324K	604K	
15.4	28.7	53.6	100	187	348	649	1.21K	2.26K	4.22K	7.87K	14.7K	27.4K	51.1K	95.3K	178K	332K	619K	
15.8	29.4	54.9	102	191	357	665	1.24K	2.32K	4.32K	8.06K	15.0K	28.0K	52.3K	97.6K	182K	340K	634K	
16.2	30.1	56.2	105	196	365	681	1.27K	2.37K	4.42K	8.25K	15.4K	28.7K	53.6K	100K	187K	348K	649K	
16.5	30.9	57.6	107	200	374	698	1.30K	2.43K	4.53K	8.45K	15.8K	29.4K	54.9K	102K	191K	357K	665K	
16.9	31.6	59.0	110	205	383	715	1.33K	2.49K	4.64K	8.66K	16.2K	30.1K	56.2K	105K	196K	365K	681K	
17.4	32.4	60.4	113	210	392	732	1.37K	2.55K	4.75K	8.87K	16.5K	30.9K	57.6K	107K	200K	374K	698K	
17.8	33.2	61.9	115	215	402	750	1.40K	2.61K	4.87K	9.09K	16.9K	31.6K	59.0K	110K	205K	383K	715K	
18.2	34.0	63.4	118	221	412	768	1.43K	2.67K	4.99K	9.31K	17.4K	32.4K	60.4K	113K	210K	392K	732K	

			Pricing								
Description	**Value Range**	**Digi-Key Part No.†**	**5**	**200**	**1,000**	**5,000**	**10,000**	**50,000**	**100,000**	**500,000**	**1,000,000**
1/4 Watt, Bulk Package	10.0 ~ 1.00MΩ	(Value)XBK-ND	.56	8.53	22.05	18.82/M	16.17/M	12.94/M	—	—	—
1/4 Watt, Tape and Reel – (5,000 pcs./reel – Order in multiples of 5,000)	10.0 ~ 1.00MΩ	(Value)XTR-ND‡	—	—	—	21.38/M	18.24/M	14.82/M	12.54/M	10.26/M	9.12/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value). ‡ Tape and Reel

5% Metal Oxide Film Resistors

RSF Series

These Metal Oxide Resistors offer lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. They can replace many low power General Purpose wirewound applications. These Metal Oxides meet overload tests in accordance with UL specification #1412 without producing a fire hazard. They withstand solvents in accordance with article Mil-Std-202E without producing mechanical or electrical damage.

Features: High surge/overload capability. Non-inductive design. Coating and marking resist Trichlorethelyne, Freon, and other cleaning agents. The RFS Series resistors are coated with layers of gray flame-proof lacquer.

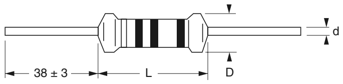

Type	Maximum Working Voltage	Dimensions (mm) L	D	d
1W	350V	11.5 ±1.0	4.5 ±0.5	0.8 ±0.05
2W	350V	15.5 ±1.0	5.0 ±0.5	0.8 ±0.05

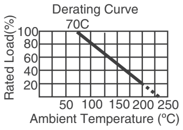
Derating Curve

Digi-Key® 1 and 2 Watt Resistor Assortment Kits

255 resistors per assortment. Five each of the values in the ranges listed below:

	0.47Ω ~ 56Ω	62Ω ~ 7.5KΩ	8.2KΩ ~ 1.0M	Price Each
1 Watt	**RS101-ND**	**RS201-ND**	**RS301-ND**	**$26.95**
2 Watt	**RS102-ND**	**RS202-ND**	**RS302-ND**	**$29.95**

Standard Resistor Values

0.47	1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K
0.51	1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
0.56	1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
0.62	1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
0.68	1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
0.75	2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
0.82	2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
0.91	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	

		Pricing					
Description	**Digi-Key Part No.†**	**1**	**10**	**100**	**1,000**	**5,000**	**10,000**
1 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 0.47 ~ 0.91Ω	(Value)W-1-ND	.23	1.73	11.12	67.93	60.52/M	54.34/M
1 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 1.0 ~ 1.0MΩ	(Value)W-1-ND	.16	1.21	7.79	47.58	42.39/M	38.06/M
2 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 0.47 ~ 0.91Ω	(Value)W-2-ND	.25	1.85	11.88	72.60	64.68/M	58.08/M
2 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 1.0 ~ 1.0MΩ	(Value)W-2-ND	.20	1.45	9.32	56.93	50.72/M	45.54/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

5% Ceramic Metal Plate Resistors 5 Watt

SLR Series

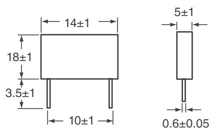

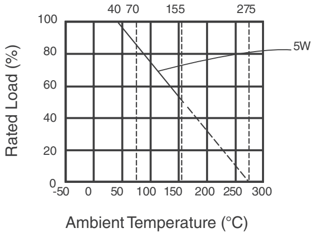

Features: Ultra mini size, space saving • Low resistance, low inductance, current detecting resistors • Metal plate in ceramic case • Power type current detecting resistors • Low Resistance: 0.02 ~ 0.18 • Tolerance: ±5% • TCR: ±250ppm/°C • Power Rating: 5W • Operating Temperature Range: -55°C ~ 155°C

Applications: • Telecom • Current Sensing

Standard Resistor Values	
0.02	0.15
0.027	0.18

Type (Power Rating)	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Temperature Cycling	Resistance Range
5W	350V	700V	700V	-55°C ~ 155°C	0.02Ω ~ 0.18Ω

Description	Value Range (Ω)	Digi-Key Part No.†	Pricing				YAGEO Part No.
			10	50	200	1,000	
5 Watt, 5%, Ceramic Metal Plate Resistors, Bulk Package	0.02 ~ 0.027	(Value)AFBK-ND	11.00	29.60	68.00	232.00	SLR500JB-xxxxx
5 Watt, 5%, Ceramic Metal Plate Resistors, Bulk Package	0.15 ~ 0.18	(Value)AFBK-ND	8.46	22.76	52.28	178.35	SLR500JB-xxxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

0.1% Metal Film Resistors 1/4 Watt

MFP Series

Features: • High precision, stable temperature, high reliability • Tolerance: ±0.1% • TCR: ±25ppm/°C • Power Rating: 1/4W • Operating Temperature Range: -55°C ~ 155°C

Applications: • High Precision Circuit • Video and Audio Appliance • Digital and Analog Computerized Systems • Precision Instrument • Bridge Circuits • Auto Controlled Equipment • Military Devices • Space Program Applications • Mobile Phone Station • Telephone Exchange • Charger • Base Station • Medical Equipment

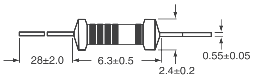

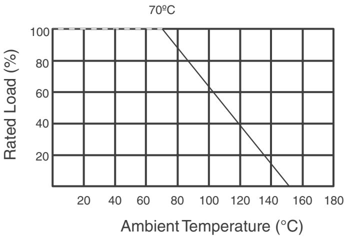

Type (Power Rating)	Maximum Working Voltage	Maximum Overload Voltage	Dielectric Withstanding Voltage	Temperature Cycling	Resistance Range
1/4W	250V	500V	500V	-55°C ~ 155°C	33Ω ~ 100KΩ

Standard Resistor Values													
33	91	150	270	470	910	1.5K	2.7K	4.7K	9.1K	15K	27K	47K	91K
56	100	180	330	510	1K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K
75	120	220	390	750	1.2K	2.2K	3.9K	7.5K	12K	20K	39K	75K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing				Digi-Key Part No.†	Tape and Reel Pricing					YAGEO Part No.
			10	50	200	1,000		5,000	10,000	25,000	50,000	100,000	
1/4W, 0.1% Metal Film Resistors	33 ~ 100K	(Value)ADCT-ND	6.46	17.39	39.95	136.30	(Value)ADTR-ND	129.00/M	116.00/M	103.00/M	86.00/M	71.00/M	MFP-25BRD52-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

1% and 5% Metal Film Resistors 1, 2, and 3 Watt

FMP Series

Features:

- Ultra mini size, space saving • High stable performance • Tolerance: ±1% ~ ±5% • TCR: ±100ppm/°C • Power Rating: 1W, 2W, and 3W
- Operating Temperature Range: -55°C ~ 155°C • Flameproof coating

Applications:

- UPS • Power supply • Instrument • White goods • Meter • Mobile Phone Station • Telephone Exchange • Charger

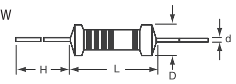

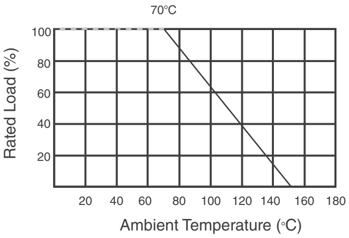

Type (Power Rating)	Dimensions - mm				Maximum Working Voltage	Maximum Overload Voltage	Dielectric Withstanding Voltage	Temperature Cycling	Resistance Range
	H	L	D	d					
1W	28±2.0	6.3±0.5	2.4±0.2	0.55±0.05	350V	600V	500V	-55°C ~ 155°C	0.27Ω ~ 82KΩ
2W	26±2.0	9.0±0.5	3.9±0.3	0.55±0.05	500V	700V	500V	-55°C ~ 155°C	0.39Ω ~ 1MΩ
3W	33±2.0	15.5±1.0	5.0±0.5	0.8±0.05	750V	1000V	750V	-55°C ~ 155°C	10Ω ~ 220KΩ

Standard Resistor Values														
0.27	1.0	3.9	8.2	33	100	249	560	2.2K	7.5K	22K	68K	150K	274K	820K
0.33	1.2	4.7	10	43	110	270	680	2.7K	8.2K	27K	75K	154K	330K	1M
0.39	1.5	5.1	12	47	120	330	820	3.3K	10K	30K	82K	180K	332K	
0.47	1.8	5.6	15	56	150	390	1K	4.7K	12K	33K	100K	200K	390K	
0.51	2.2	6.2	18	68	160	430	1.2K	5.1K	15K	39K	110K	220K	470K	
0.68	3.0	6.8	22	82	180	470	1.5K	5.6K	16K	47K	120K	240K	560K	
0.82	3.3	7.5	27	91	220	510	1.8K	6.8K	18K	56K	130K	270K	715K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing				Digi-Key Part No.†	Tape and Reel Pricing					YAGEO Part No.
			10	50	200	1,000		2,500	5,000	10,000	25,000	50,000	
1W, 5% Metal Film Resistor	0.27 ~ 0.51, 0.82	(Value)WCT-ND	3.33	8.95	20.57	70.18	(Value)WTR-ND	—	76.00/M	65.00/M	—	53.00/M	FMP100JR-52-xxxx
1W, 5% Metal Film Resistor	1.0 ~ 1.2, 2.2 ~ 3.3, 4.7, 5.6, 7.5 ~ 8.2	(Value)WCT-ND	2.10	5.66	13.01	44.37	(Value)WTR-ND	—	42.00/M	36.00/M	—	29.00/M	FMP100JR-52-xxxx
1W, 5% Metal Film Resistor	10 ~ 12, 22, 33, 47, 56 ~ 91, 100 ~ 150, 180, 220, 270 ~ 390, 470 ~ 680, 1K ~ 1.5K, 2.2K, 3.3K, 4.7K, 10K ~ 27K, 33K, 47K, 56K ~ 68K, 82K, 100K ~ 120K, 150K, 180K, 220K, 270K, 330K, 470K, 820K ~ 1M	(Value)WCT-ND	1.75	4.70	10.80	36.83	(Value)WTR-ND	—	33.00/M	28.00/M	—	23.00/M	FMP100JR-52-xxxx
2W, 1% Metal Film Resistor	100, 160, 220, 249, 10K, 75K, 130K, 154K, 274K, 332K, 390K, 715K	(Value)YCT-ND	2.96	7.96	18.28	62.35	(Value)YTR-ND	53.00/M	47.00/M	—	35.00/M	—	FMP200FRF52-xxxx
2W, 1% Metal Film Resistor	6.2	(Value)YCT-ND	3.64	9.81	22.53	76.85	(Value)YTR-ND	68.00/M	61.00/M	—	45.00/M	—	FMP200FRF52-xxxx
2W, 5% Metal Film Resistor	0.39, 0.68 ~ 0.82	(Value)ZCT-ND	4.47	12.03	27.63	94.25	(Value)ZTR-ND	86.00/M	77.00/M	—	57.00/M	—	FMP200JR-52-xxxx
2W, 5% Metal Film Resistor	1.0, 1.5 ~ 1.8, 2.2, 3.3 ~ 5.6, 6.8, 8.2	(Value)ZCT-ND	2.78	7.47	17.17	58.58	(Value)ZTR-ND	49.00/M	44.00/M	—	32.00/M	—	FMP200JR-52-xxxx
2W, 5% Metal Film Resistor	10 ~ 82, 100, 120 ~ 150, 180 ~ 220, 270, 330 ~ 15K, 18K ~ 56K, 68K, 82K ~ 100K, 120K, 150K, 180K ~ 200K, 240K ~ 270K, 330K, 390K ~ 560K, 820K ~ 1M	(Value)ZCT-ND	2.28	6.14	14.11	48.14	(Value)ZTR-ND	38.00/M	34.00/M	—	25.00/M	—	FMP200JR-52-xxxx
3W, 1% Metal Film Resistor	100, 10K, 220K	(Value)AVCT-ND✔	3.96	10.66	24.48	—	(Value)AVTB-ND‡✔	—	67.00/M	60.00/M	50.00/M	—	FMP300FTF73-xxxx
3W, 5% Metal Film Resistor	10, 10K, 220K	(Value)AXCT-ND✔	3.00	8.07	18.53	—	(Value)AXTB-ND‡✔	—	48.00/M	43.00/M	36.00/M	—	FMP300JT-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value). ‡ Tape and Box ✔ ***NEW!***

1% and 5% Wirewound Resistors 1 Watt

KNP Series

RoHS COMPLIANT

Features: • Tolerance: ±1% and ±5% • TCR: ±300ppm/°C • Power Rating: 1W • Operating Temperature Range: -40°C ~ 200°C • Flameproof coating

Applications: • High Stable Circuit • TV • Power Supply • CE • Adapters • Chargers • UPS • Converters • Inverter • Transformer • Generator • Monitor • Printer • Scanner • Audio • Tuner • Refrigerator • White goods • Meter • Mobile Phone Station • Telephone Exchange • Base Station • Car Related Industrial • Traffic Mark

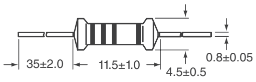

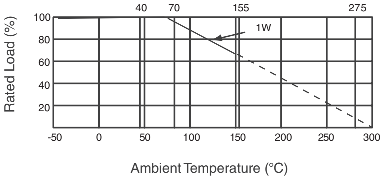

Type (Power Rating)	Dielectric Withstanding Voltage	Temperature Cycling	Resistance Range
1W	400V	-55°C ~ 155°C	0.1Ω ~ 680Ω

Standard Resistor Values

0.1	0.18	0.2	0.43	0.56	0.91	1.5	2.7	5.6	10	18	43	62	120	270
0.12	0.22	0.30	0.47	0.68	1.0	2.0	3.3	6.8	12	22	47	68	150	390
0.15	0.24	0.33	0.50	0.75	1.3	2.2	4.7	7.5	15	27	51	82	180	470
0.16	0.27	0.39	0.51	0.82	1.4	2.3	5.1	8.2	16	33	56	100	200	680

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Tape and Reel Pricing 2,000	4,000	10,000	20,000	YAGEO Part No.
1 Watt, 1% Wire Wound Resis tors	1.0, 10, 47	(Value)ABCT-ND	4.66	12.54	28.82	98.31	(Value)ABTR-ND	90.00/M	81.00/M	72.00/M	60.00/M	KNP100FR-73-xxxx
1 Watt, 1% Wire Wound Resistors	200	200ABCT-ND	6.81	18.32	42.08	143.55	200ABTR-ND	137.00/M	123.00/M	109.00/M	91.00/M	KNP100FR-73-xxxx
1 Watt, 1% Wire Wound Resistors	390	390ABCT-ND	8.66	23.31	53.55	182.70	390ABTR-ND	177.00/M	159.00/M	142.00/M	118.00/M	KNP100FR-73-xxxx
1 Watt, 5% Wire Wound Resistors	0.1, 0.12, 0.24, 0.2, 0.47, 0.56, 2.2, 8.2, 10 ~ 12, 16, 33	(Value)ACCT-ND	3.51	9.44	21.68	73.95	(Value)ACTR-ND	65.00/M	58.00/M	52.00/M	43.00/M	KNP100JR-52-xxxx
1 Watt, 5% Wire Wound Resistors	0.15 ~ 0.18, 0.22, 0.27, 0.30 ~ 0.43, 0.50 ~ 0.51, 0.68 ~ 2.0, 2.3 ~ 7.5, 15, 18 ~ 27, 43 ~ 47	(Value)ACCT-ND	3.51	9.44	21.68	73.95	(Value)ACTR-ND	65.00/M	58.00/M	52.00/M	43.00/M	KNP100JR-73-xxxx
1 Watt, 5% Wire Wound Resistors	56, 68, 100	(Value)ACCT-ND	4.08	10.99	25.25	86.13	(Value)ACTR-ND	77.00/M	69.00/M	62.00/M	51.00/M	KNP100JR-52-xxxx
1 Watt, 5% Wire Wound Resistors	51, 62, 82	(Value)ACCT-ND	4.08	10.99	25.25	86.13	(Value)ACTR-ND	77.00/M	69.00/M	62.00/M	51.00/M	KNP100JR-73-xxxx
1 Watt, 5% Wire Wound Resistors	120 ~ 180, 270,	(Value)ACCT-ND	4.95	13.32	30.60	104.40	(Value)ACTR-ND	96.00/M	86.00/M	77.00/M	64.00/M	KNP100JR-73-xxxx
1 Watt, 5% Wire Wound Resistors	470 ~ 680	(Value)ACCT-ND	7.22	19.43	44.63	152.25	(Value)ACTR-ND	146.00/M	131.00/M	116.00/M	97.00/M	KNP100JR-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

5% Power Wirewound Resistors 1 and 3 Watt

PNP Series

RoHS COMPLIANT

G

Features: • Ultra mini size, space saving • High power dissipation in small volume • Tolerance: ±5% • TCR: ±300ppm/°C • Power Rating: 1W and 3W • Operating Temperature Range: -40°C ~ 200°C • Flameproof Coating
Applications: • High Stable Circuit • TV • Power Supply • CE • Adaptors • Chargers • UPS • Converters • Inverter • Transformer • Generator • Monitor • Printer • Scanner • Audio • Tuner • Refrigerator • White goods • Meter • Moible Phone Station • Telephone Exchange • Base Station • Car Related Industrial • Traffic Mark

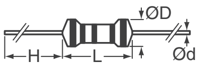

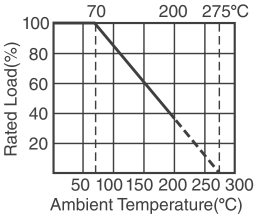

Standard Resistor Values

0.1	0.15	0.22	0.33	0.47	0.75	1.2	1.8	2.7	3.9	5.6	9.1	12	18	22	33	45	56	91	120	470
0.12	0.18	0.27	0.39	0.56	1.0	1.5	2.2	3.3	4.7	7.5	10	15	20	27	39	47	75	100	150	

Type (Power Rating)	Dimensions - mm L	øD	ød	H	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1 Watt	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	300V	70°C	-55°C ~ 155°C	20Ω ~ 45Ω	±5%
3 Watt	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05	35 ± 2.0	300V	70°C	-55°C ~ 155°C	0.1Ω ~ 470Ω	±5%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Tape and Reel Pricing 2,000	4,000	5,000	10,000	20,000	40,000	YAGEO Part No.
3 Watt, 5% Power Wire Wound Resistors	0.1 ~ 18, 22 ~ 39, 47 ~ 470	(Value)AECT-ND	4.73	12.73	29.24	99.76	(Value)AETR-ND	91.00/M	82.00/M	91.00/M	73.00/M	61.00/M	50.00/M	PNP300JR-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value). ‡ Tape and Box ✔ ***NEW!***

1% and 5% High Voltage and High Ohmic Resistors 1/4, 1/2 and 1 Watt

HHV Series

RoHS COMPLIANT

Features: • Metal glaze elements provide high stability and high reliability at high voltage • High pulse loading capability, anti-surge • Maximum Working Voltage: 1.6K • Maximum Overload Voltage: 3K • Tolerance: ±5% • TCR: ±300ppm/°C • Power Rating: 1/4W, 1/2W and 1W • Operating Temperature Range: -55°C ~ 155°C • Flameproof type • Withstand high humidity environment
Applications: • High Voltage Home Appliance • Power Supplies and High Voltage Circuit • Adaptors • Chargers • UPS • Converters • Inverter • Transformer • Generator • TV • Monitor • Printer • Scanner • Audio • Tuner • Refrigerator • White Goods • Meter

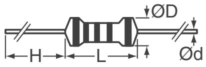

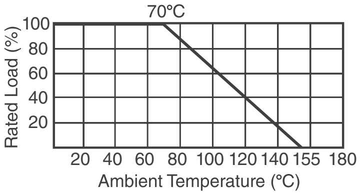

Type (Power Rating)	Dimensions - mm L	øD	ød	H	Dielectric With-standing Voltage	Max. Working Voltage	Temperature Cycling	Resistance Range	Resistance Tolerance
1/4W	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	500V	1600V	-55°C ~ 155°C	20KΩ ~ 15MΩ	±5%
1/2W	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	700V	3500V	-55°C ~ 155°C	100KΩ ~ 33MΩ	±5%
1W	11.5 ± 1.0	4.5 ± 0.5	0.80 ± 0.05	35 ± 2.0	700V	5000V	-55°C ~ 155°C	100KΩ ~ 22MΩ	±5%
1W (HHV100)	15.5 ± 1.0	5.0 ± 0.5	0.80 ± 0.05	33 ± 2.0	700V	10000V	-55°C ~ 155°C	100KΩ ~ 22MΩ	±1%

Standard Resistor Values

20K	470K	1M	1.8M	8.2M	15M
22K	500K	1.2M	2M	10M	22M
100K	680K	1.5M	5.6M	12M	33M

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	25,000	50,000	100,000	YAGEO Part No.
1/4 Watt, 5% High Voltage and High Ohmic	20K ~ 1.8M, 8.2M ~ 12M	(Value)AACT-ND	3.51	9.44	21.68	73.95	(Value)AATR-ND	65.00/M	58.00/M	52.00/M	43.00/M	36.00/M	HHV-25JR-52-xxxx
1/4 Watt, 5% High Voltage and High Ohmic	20K, 680K, 15M	(Value)BECT-ND✔	3.51	9.44	21.68	73.95	(Value)BETB-ND‡✔	65.00/M	58.00/M	52.00/M	—	—	HHV-25JT-52-xxxx
1/2 Watt, 5% High Voltage and High Ohmic	100K, 5.6M, 33M	(Value)BFCT-ND✔	5.71	15.36	35.28	—	(Value)BFTB-ND‡✔	101.00/M	90.00/M	75.00/M	—	—	HHV-50JT-52-xxxx
1 Watt, 5% High Voltage and High Ohmic	100K	100KBJCT-ND✔	8.53	22.94	52.70	—	100KBJTB-ND‡✔	162.00/M	144.00/M	120.00/M	—	—	HHV1WSJT-73-100K
1 Watt, 5% High Voltage and High Ohmic	2M, 22M	(Value)BKCT-ND✔	8.53	22.94	52.70	—	(Value)BKTB-ND‡✔	157.00/M	139.00/M	116.00/M	—	—	HHV1WSJT-73-xxxx
1 Watt, 5% High Voltage and High Ohmic	100K, 2M, 22M	(Value)BHCT-ND✔	12.24	32.93	75.65	—	(Value)BHTB-ND‡✔	230.00/M	204.00/M	170.00/M	—	—	HHV100JT-73-xxxx
1 Watt, 1% High Voltage and High Ohmic	100K, 2M, 22M	(Value)BGCT-ND✔	15.54	41.81	96.05	—	(Value)BGTB-ND‡✔	294.00/M	262.00/M	218.00/M	—	—	HHV100FT-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value). ‡ Tape and Box ✔ ***NEW!***

Innovative Service Around the Globe **YAGEO**

NEW! .02% and .05% Metal Film High Precision Resistors

MHP Series

Features:

- Tolerance: P = ±0.02% and A = ±0.05%
- TCR: A = 5ppm/°C
- Power Rating: -25 = 1/4W and -50 = 1/2W
- Operating Temperature Range: -65°C ~ 150°C

RoHS COMPLIANT

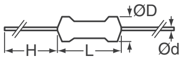

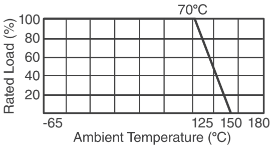

Type (Power Rating)	Dimensions - mm				Max. Working Voltage	Max. Overload Voltage	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range
	L	øD	ød	H						
1/4 Watt	6.2 ± 0.3	1.8 ± 0.3	0.63 ± 0.05	36 ± 0.3	250V	500V	450V	70°C	-55°C ~ 155°C	26.1Ω ~ 510KΩ
1/2 Watt	9.1 ± 0.3	2.1 ± 0.3	0.63 ± 0.05	36 ± 0.3	300V	600V	900V	70°C	-55°C ~ 155°C	107.9Ω ~ 320KΩ

Description	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Box Pricing				YAGEO Part No.
		1	10	50	100		1,000	5,000	10,000	25,000	
1/4W, .02% Metal Film Resistors	43KBRCT-ND	18.77	160.86	737.28	1340.50	43KBRTB-ND	—	16074.00/M	14467.00/M	12859.00/M	MHP-25PTA52-43K
1/4W, .02% Metal Film Resistors	510KBRCT-ND	23.28	199.50	914.38	1662.50	510KBRTB-ND	—	19938.00/M	17944.00/M	15950.00/M	MHP-25PTA52-510K
1/4W, .05% Metal Film Resistors	26.1BPCT-ND	14.49	124.23	569.39	1035.25	26.1BPTB-ND	—	12411.00/M	11170.00/M	9929.00/M	MHP-25ATA52-26R1
1/4W, .05% Metal Film Resistors	30KBPCT-ND	13.64	116.88	535.70	974.00	30KBPTB-ND	—	11676.00/M	10508.00/M	9341.00/M	MHP-25ATA52-30K
1/4W, .05% Metal Film Resistors	294KBPCT-ND	21.55	184.71	846.59	1539.25	294KBPTB-ND	—	18459.00/M	16613.00/M	14767.00/M	MHP-25ATA-294K
1/2W, .02% Metal Film Resistors	500BSCT-ND	21.93	187.98	861.58	1566.50	500BSTB-ND	18786.00	16907.00/M	15029.00/M	12524.00/M	MHP-50PTA52-500R
1/2W, .02% Metal Film Resistors	120KBSCT-ND	18.69	160.17	734.11	1334.75	120KBSTB-ND	16005.00	14405.00/M	12804.00/M	10670.00/M	MHP-50PTA52-120K
1/2W, .05% Metal Film Resistors	107.9BSCT-ND	16.18	138.72	635.80	1156.00	107.9BSTB-ND	13860.00	12474.00/M	11088.00/M	9240.00/M	MHP-50ATA52-107R9
1/2W, .05% Metal Film Resistors	50KBSCT-ND	—	124.32	569.80	1036.00	50KBSTB-ND	12420.00	11178.00/M	9936.00/M	8280.00/M	MHP-50ATA52-50K
1/2W, .05% Metal Film Resistors	320KBSCT-ND	14.50	124.32	569.80	1036.00	320KBSTB-ND	12420.00	11178.00/M	9936.00/M	8280.00/M	MHP-50ATA52-320K

NEW! 5% Carbon Film Resistors 1/4 Watt

CFN Series

1/4 Watt Standard Resistor Values		
100	10K	100K

Features:

- Tolerance: ±5%
- TCR: +350 ~ -500ppm/°C
- Power Rating: 1/4W
- Operating Temperature Range: -55°C ~ 155°C

RoHS COMPLIANT

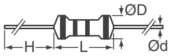

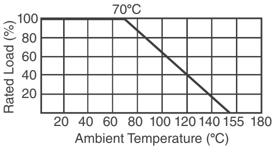

Type (Power Rating)	Dimensions - mm				Max. Working Voltage	Max. Overload Voltage	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
	L	øD	ød	H							
1/4 Watt	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	250V	500V	500V	70°C	-55°C ~ 155°C	100Ω ~ 100KΩ	±5%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing				Digi-Key Part No.†	Tape and Box Pricing				YAGEO Part No.
			10	50	200	1,000		5,000	10,000	25,000	50,000	
1/4 Watt, 5% Carbon Film Resistors	100 ~ 100K	(Value)KASCT-ND	1.10	2.96	6.80	23.20	(Value)KASTB-ND	12.00/M	11.00/M	10.00/M	8.00/M	CFN-25JT-52-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 10% Carbon Film Resistors

NCR Series

Features:

- Tolerance: ±10%
- TCR: -500ppm/°C under 5KΩ; -800ppm/°C 5KΩ ~ 10KΩ
- Power Rating: 1/4W, 1/2W, 1W and 2W
- Operating Temperature Range: -55°C ~ 155°C

RoHS COMPLIANT

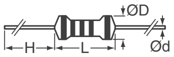

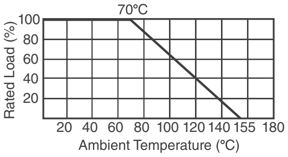

Standard Resistor Values		
1.2K	4.7K	10.0K

Type (Power Rating)	Dimensions - mm				Max. Working Voltage	Max. Overload Voltage	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
	L	øD	ød	H							
1/4 Watt	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	250V	500V	500V	70°C	-55°C ~ 155°C	1.2KΩ ~ 10.0KΩ	±10%
1/2 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	28 ± 2.0	350V	700V	700V	70°C	-55°C ~ 155°C	1.2KΩ ~ 10.0KΩ	±10%
1/2 Watt (Mini)	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	26 ± 2.0	300V	600V	500V	70°C	-55°C ~ 155°C	1.2KΩ ~ 10.0KΩ	±10%
1 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	400V	800V	700V	70°C	-55°C ~ 155°C	1.2KΩ ~ 10.0KΩ	±10%
2 Watt	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05	33 ± 2.0	500V	1000V	1000V	70°C	-55°C ~ 155°C	1.2KΩ ~ 10.0KΩ	±10%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing				Digi-Key Part No.†	Tape and Box Pricing				YAGEO Part No.
			1	10	50	200		1,000	5,000	10,000	25,000	
1/4W, 10% Carbon Film Resistors	1.2K ~ 10.0K	(Value)BXCT-ND	—	1.17	3.15	7.23	(Value)BXTB-ND	—	14.00/M	12.00/M	11.00/M	NCR-25KT-52-xxx
1/2W, 10% Carbon Film Resistors Std. Series	1.2K ~ 10.0K	(Value)BYCT-ND	—	1.72	4.63	10.63	(Value)BYTB-ND	26.00	23.00/M	20.00/M	17.00/M	NCR-50KT-52-xxx
1/2W, 10% Carbon Film Resistors Mini Series	1.2K ~ 10.0K	(Value)CBCT-ND	—	1.35	3.63	8.33	(Value)CBTB-ND	—	17.00/M	16.00/M	14.00/M	NCR50SKT-52-xxx
1W, 10% Carbon Film Resistors	1.2K	1.2KBZCT-ND	—	2.13	5.74	13.18	1.2KBZTB-ND	43.00	37.00/M	30.00/M	25.00/M	NCR1WSKT-52-1K2
1W, 10% Carbon Film Resistors	4.7K ~ 10.0K	(Value)BZCT-ND	.29	2.13	5.74	13.18	(Value)BZTB-ND	43.00	37.00/M	30.00/M	25.00/M	NCR1WSKT-52-xxx
2W, 10% Carbon Film Resistors	1.2K ~ 10.0K	(Value)CACT-ND	—	4.15	11.17	25.67	(Value)CATB-ND	79.00	71.00/M	63.00/M	52.00/M	NCR200KT-73-xxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 5% and 10% Power Wirewound Resistors 5 Watt

PSP Series

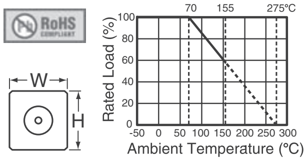

Features:

- Tolerance: ±5% and ±10%
- TCR: ±400ppm/°C
- Power Rating: 5W
- Operating Temperature Range: -55°C ~ 155°C

5 Watt Standard Resistor Values		
1.00	15	130

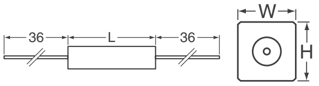

Type (Power Rating)	Dimensions - mm			Maximum Working Voltage	Maximum Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range
	L	W	H						
5 Watt	25 ± 1.0	7.0 ± 0.5	8.0 ± 0.4	150V	300V	300V	70°C	-55°C ~ 155°C	1Ω ~ 130Ω

Description	Value Range (Ω)	Digi-Key Part No.†	Pricing				YAGEO Part No.
			1	10	50	100	
5 Watt, 5%, Power Wirewound Resistors, Bulk Package	1.00 ~ 130	(Value)CUBK-ND	.45	3.84	17.60	32.00	PSP500JB-xxxx
5 Watt, 10%, Power Wirewound Resistors, Bulk Package	1.00 ~ 130	(Value)CVBK-ND	.37	3.18	14.58	26.50	PSP500KB-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 5% and 10% Power Wirewound Resistors

PSM Series

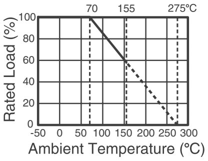

Features:

- Tolerance: ±5% and ±10%
- TCR: ±400ppm/°C
- Power Rating: 7W and 9W
- Operating Temperature Range: -55°C ~ 155°C

7 Watt Standard Resistor Values		
1.00	16.0	130

9 Watt Standard Resistor Values		
2.00	47	250

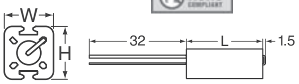

Type (Power Rating)	Dimensions - mm			Rated Ambient Temperature	Temperature Cycling	Resistance Range
	L	W	H			
7 Watt	25 ± 1.0	9.0 ± 0.4	10.0 ± 0.4	70°C	-55°C ~ 155°C	1Ω ~ 130Ω
9 Watt	38 ± 1.0	10.0 ± 0.4	10.0 ± 0.4	70°C	-55°C ~ 155°C	2Ω ~ 250Ω

Description	Value Range (Ω)	Digi-Key Part No.†	Pricing				YAGEO Part No.
			1	10	50	100	
7 Watt, 5%, Power Wirewound Resistors, Bulk Package	1.00 ~ 130	(Value)CMBK-ND	1.82	15.60	71.50	130.00	PSM7WJB-xxxx
7 Watt, 10%, Power Wirewound Resistors, Bulk Package	1.00 ~ 130	(Value)CNBK-ND	1.82	15.60	71.50	130.00	PSM7WKB-xxxx
9 Watt, 5%, Power Wirewound Resistors, Bulk Package	2.00 ~ 250	(Value)CPBK-ND	1.89	16.17	74.11	134.75	PSM900JB-xxxx
9 Watt, 10%, Power Wirewound Resistors, Bulk Package	2.00 ~ 250	(Value)CSBK-ND	1.65	14.10	64.63	117.50	PSM900KB-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 5% Wirewound Flame-Proof Resistors

NKN Series

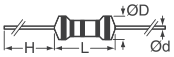

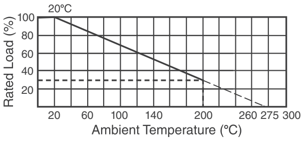

Features:

- Tolerance: ±5%
- TCR: ±300ppm/°C
- Power Rating: 1/2W, 1W, 2W, and 3W
- Operating Temperature Range: -40°C ~ 200°C

1/2 Watt Standard Resistor Values		
2.0	5.6	10.0

2 Watt Standard Resistor Values		
0.2	0.47	20.0

1 Watt Standard Resistor Values		
7.5	15.0	20.0

2 Watt Miniature Resistor Values		
0.2	0.36	1.3

3 Watt Miniature Resistor Values	
0.04	75

Type (Power Rating)	Dimensions - mm				Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
	L	D	d	H					
1/2 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	250V	70°C	-55°C ~ 155°C	2.0Ω ~ 10.0Ω	±5%
1 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	250V	70°C	-55°C ~ 155°C	7.5Ω ~ 20.0Ω	±5%
2 Watt	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05	33 ± 2.0	400V	70°C	-55°C ~ 155°C	0.2Ω ~ 20.0Ω	±5%
2 Watt (Mini)	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05	35 ± 2.0	400V	70°C	-55°C ~ 155°C	0.2Ω ~ 1.3Ω	±5%
3 Watt (Mini)	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05	33 ± 2.0	400V	70°C	-55°C ~ 155°C	0.04Ω ~ 75Ω	±5%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Box Pricing				YAGEO Part No.
			10	50	200		1,000	5,000	10,000	25,000	
1/2W, 5% Wirewound Flame-Proof Resistors	2.0 ~ 10.0	(Value)CCCT-ND	4.68	12.58	28.90	(Value)CCTB-ND	90.00	81.00/M	72.00/M	60.00/M	NKN-50JT-52-xxx
1W, 5% Wirewound Flame-Proof Resistors	7.5 ~ 20.0	(Value)CDCT-ND	3.95	10.62	24.40	(Value)CDTB-ND	74.00	67.00/M	59.00/M	49.00/M	NKN1WJT-52-xxx
2W, 5% WW Flame-Proof Resistors, Std. Series	0.2, 0.47, 20.0	(Value)CECT-ND	6.94	18.69	42.93	(Value)CETB-ND	140.00	126.00/M	112.00/M	93.00/M	NKN200JT-73-xxxx
2W, 5% WW Flame-Proof Resistors, Mini Series	0.2, 0.36, 1.3	(Value)CFCT-ND	4.81	12.95	29.75	(Value)CFTB-ND	93.00	84.00/M	74.00/M	62.00/M	NKN2WSJT-73-xxxx
3W, 5% WW Flame-Proof Resistors, Mini Series	0.04 ~ 75	(Value)CGCT-ND	7.15	19.24	44.20	(Value)CGTB-ND	144.00	130.00/M	115.00/M	96.00/M	NKN3WSJT-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 5% Metal Film Fusible Resistors

FRM Series

Features:
• Tolerance: ±5% • TCR: ±200ppm/°C • Power Rating: 1/4W, 1/2W, 1W, 2W, and 3W • Operating Temperature Range: -55°C ~ 155°C

Standard Resistor Values		
1.00	22.0	100
10.0	33.0	680

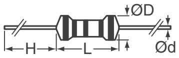

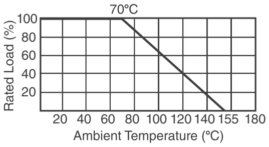

Type (Power Rating)	Dimensions - mm L	øD	ød	H	Max. Working Voltage	Max. Overload Voltage	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/4 Watt	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	200V	400V	250V	70°C	-55°C ~ 155°C	1.00Ω ~ 100Ω	±5%
1/2 Watt (Mini)	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	28 ± 2.0	200V	400V	250V	70°C	-55°C ~ 155°C	1.00Ω	±5%
1/2 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	250V	500V	250V	70°C	-55°C ~ 155°C	10.0Ω ~ 100Ω	±5%
1 Watt	9.0 ± 0.5	3.3 ± 0.3	0.55 ± 0.05	26 ± 2.0	250V	500V	250V	70°C	-55°C ~ 155°C	10.0Ω ~ 100Ω	±5%
1 Watt (FRM100)	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05	35 ± 2.0	300V	600V	350V	70°C	-55°C ~ 155°C	10.0Ω	±5%
2 Watt	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05	33 ± 2.0	350V	700V	350V	70°C	-55°C ~ 155°C	33.0Ω	±5%
3 Watt (Mini)	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05	33 ± 2.0	350V	700V	350V	70°C	-55°C ~ 155°C	22.0Ω ~ 680Ω	±5%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	Digi-Key Part No.†	Tape and Box Pricing 1,000	5,000	10,000	25,000	YAGEO Part No.
1/4W, 5% Metal Film Fusible Resistors	1.00, 100	(Value)DCCT-ND	1.54	4.14	9.52	(Value)DCTB-ND	—	22.00/M	19.00/M	17.00/M	FRM-25JT-52-xxxx
1/2W, 5% Metal Film Fusible Resistors	1.00	1.00BDCT-ND	1.93	5.18	11.90	1.00BDTB-ND	—	30.00/M	27.00/M	24.00/M	FRM50SJT-52-1R
1/2W, 5% Metal Film Fusible Resistors	10.0	10.0AYCT-ND	2.13	5.74	13.18	10.0AYTB-ND	35.00	31.00/M	28.00/M	23.00/M	FRM-50JT-52-xxxx
1/2W, 5% Metal Film Fusible Resistors	100	100AYCT-ND	2.13	5.74	13.18	100AYTB-ND	—	35.00/M	31.00/M	28.00/M	FRM-50JT-52-xxxx
1W, 5% Metal Film Fusible Resistors	10.0, 100	(Value)BACT-ND	2.68	7.22	16.58	(Value)BATB-ND	58.00	50.00/M	40.00/M	34.00/M	FRM1WJT-52-xxxx
1W, 5% Metal Film Fusible Resistors	10.0	10.0AZCT-ND	3.15	8.47	19.47	10.0AZTB-ND	71.00	60.00/M	49.00/M	42.00/M	FRM100JT-73-10R
2W, 5% Metal Film Fusible Resistors	33.0	33.0BBCT-ND	5.43	14.62	33.58	33.0BBTB-ND	107.00	96.00/M	85.00/M	71.00/M	FRM200JT-73-33R
3W, 5% Metal Film Fusible Resistors	22.0, 680	(Value)BCCT-ND	6.46	17.39	39.95	(Value)BCTB-ND	129.00	116.00/M	103.00/M	86.00/M	FRM3WSJT-73-xxxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

NEW! 1% and 5% Fusible Wirewound Resistors 2 Watt

FKN Series

Features: • Tolerance: ±1% and ±5% • TCR: ±350ppm/°C • Power Rating: 2W • Operating Temperature Range: -40°C ~ 155°C

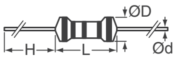

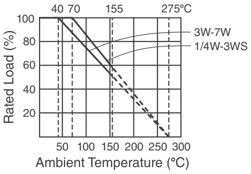

Type (Power Rating)	Dimensions - mm L	øD	ød	H	Max. Working Voltage	Max. Overload Voltage	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range
2 Watt	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05	35 ± 2.0	150V	300V	300V	70°C	-55°C ~ 155°C	0.50Ω ~ 100Ω

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	50	200	Digi-Key Part No.	Package Qty.	Tape and Box Pricing 1,000	5,000	10,000	25,000	YAGEO Part No.
2W, 1% Fusible Wire Wound Resistors	0.50ATCT-ND	—	5.09	13.69	31.45	0.50ATTB-ND	1,000	99.00	89.00/M	79.00/M	66.00/M	FKN2WFTF73-0R5
2W, 1% Fusible Wire Wound Resistors	47.0ATCT-ND	.70	5.09	13.69	31.45	47.0ATTB-ND	1,000	99.00	89.00/M	79.00/M	66.00/M	FKN2WFTF73-47R
2W, 1% Fusible Wire Wound Resistors	100ATCT-ND	.82	5.91	15.91	36.55	100ATTB-ND	1,000	117.00	105.00/M	94.00/M	78.00/M	FKN2WFTF73-100R
2W, 5% Fusible Wire Wound Resistors	0.50AUCT-ND	—	3.85	10.36	23.80	0.50AUTB-ND	1,000	72.00	65.00/M	58.00/M	48.00/M	FKN2WJT-73-0R5
2W, 5% Fusible Wire Wound Resistors	47.0AUCT-ND	—	3.85	10.36	23.80	47.0AUTB-ND	1,000	72.00	65.00/M	58.00/M	48.00/M	FKN2WJT-73-47R
2W, 5% Fusible Wire Wound Resistors	100AUCT-ND	—	4.81	12.95	29.75	100AUTB-ND	1,000	93.00	84.00/M	74.00/M	62.00/M	FKN2WSJT-73-100R

NEW! 5% Power Wirewound Resistors

AHA and AHP Series

Features:
• Tolerance: ±5% • TCR: ±200ppm/°C • Power Rating: 5W, 10W, 50W, and 80W • Operating Temperature Range: -55°C ~ 250°C

AHA500, AHP500, AHA10A, AHA50A

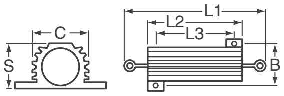

AHA80

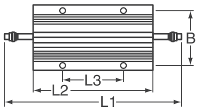

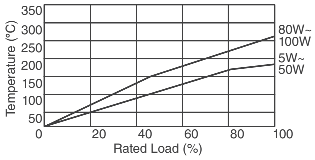

5 Watt Standard Resistor Values AHA		
0.68	1.3	1.5

5 Watt Standard Resistor Values AHP		
1.1	1.2	1.5

10 Watt Standard Resistor Values AHA		
4.7	5.00	28

50 Watt Standard Resistor Values AHA		
3.0	15	47

80 Watt Standard Resistor Values AHA		
1.00	5.00	8.2

Type (Power Rating)	Dimensions - mm L1	L2	L3	B	C	S	Dielectric With-standing Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range
5 Watt	25 ± 2	15 ± 1	10 ± 1	12.5 ± 1	8.5 ± 1	8 ± 1	1000V	70°C	-55°C ~ 250°C	0.68Ω ~ 1.5Ω
10 Watt	32 ± 2	19 ± 1	14 ± 1	15.5 ± 1	10.5 ± 1	10 ± 1	1000V	70°C	-55°C ~ 250°C	4.7Ω ~ 28Ω
50 Watt	70 ± 2	50 ± 1	39 ± 1	21 ± 1	15 ± 1	15.5 ± 1	1500V	70°C	-55°C ~ 250°C	3Ω ~ 47Ω
80 Watt	102 ± 2	66 ± 1	35 ± 1	37 ± 1	28 ± 1	25 ± 1	—	70°C	-55°C ~ 250°C	1Ω ~ 8.2Ω

Description	Value Range (Ω)	Digi-Key Part No.†	Pricing 1	10	50	100	YAGEO Part No.
5 Watt, 5%, Power Wirewound Resistors, Bulk Package	0.68	0.68CYBK-ND	1.32	11.31	51.84	94.25	AHA500JB-0R68
5 Watt, 5%, Power Wirewound Resistors, Bulk Package	1.3 ~ 1.5	(Value)CYBK-ND	1.82	15.57	71.36	129.75	AHA500JB-xxx
5 Watt, 5%, Power Wirewound Resistors, Bulk Package	1.1 ~ 1.5	(Value)DBBK-ND	1.32	11.31	51.84	94.25	AHP500JB-xxx
10 Watt, 5%, Power Wirewound Resistors, Bulk Package	4.7 ~ 28	(Value)CWBK-ND	2.00	17.16	78.65	143.00	AHA10AJB-xxx
50 Watt, 5%, Power Wirewound Resistors, Bulk Package	3.0 ~ 47	(Value)CZBK-ND	4.62	39.63	181.64	330.25	AHA50AJB-xxx
80 Watt, 5%, Power Wirewound Resistors, Bulk Package	1.00 ~ 8.2	(Value)DABK-ND	10.73	92.01	421.71	766.75	AHA80AJB-xxx

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value).

CRT Series Thin Film Precision Chip Resistors

.1% 1/10W 0603, .1% 1/8W 0805 and 1206 Series

The CRT series of SMD precision chip resistors offer Absolute Tolerances and TCRs as low as 0.01% and 5ppm respectively. They are packaged in industry standard chip sizes ranging from 0402 to 1206 formats and are used in a wide range of circuits requiring very low noise and high accuracy.

Operating Temperature Range: -55 ~ 155°C
Temperature Coefficient: 5 ~ 50ppm/°C

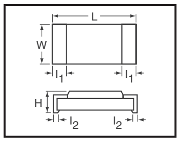

Dimensions (mm)	Series		
	0603	0805	1206
L	1.55 ±0.10	2.00 ±0.15	3.05 ±0.15
W	0.80 ±0.10	1.25 ±0.15	1.55 ±0.15
H	0.45 ±0.15	0.55 ±0.10	0.55 ±0.10
l1	0.30 ±0.20	0.30 ±0.20	0.42 ±0.20
l2	0.30 ±0.20	0.40 ±0.25	0.35 ±0.25

Resistance Values (Ω) – 0603, 0805 and 1206 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R0)	10K (1002)	100K (1003)	1.0M (1004)§

§ Value not available in 0603 series

Description	Value Range (Ω)	Working Voltage (Maximum)	Overload Voltage (Maximum)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	Bourns Part No.
0603, .1%, 1/10W	10 ~ 100K	50V	100V	CRT0603-BY-(Code)ELFCT-ND	.25	1.56	11.70	CRT0603-BY-(Code)ELFTR-ND	98.00/M	CRT0603-BY-(Code)ELF
0805, .1%, 1/8W	10 ~ 1.0M	100V	200V	CRT0805-BY-(Code)ELFCT-ND	.28	1.75	13.14	CRT0805-BY-(Code)ELFTR-ND	110.00/M	CRT0805-BY-(Code)ELF
1206, .1%, 1/8W	10 ~ 1.0M	150V	300V	CRT1206-BY-(Code)ELFCT-ND	.35	2.23	16.74	CRT1206-BY-(Code)ELFTR-ND	140.00/M	CRT1206-BY-(Code)ELF

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

CRA Series High Power Current Sense Chip Resistors

1% 3W 2512 Series

The CRA series of SMD power chip resistors are used for current measurement and circuit protection applications. It is rated to 3 Watts of power in an industry standard 2512 package with a resistance range of 10mΩ ~ 100mΩ and a TCR of ±75ppm.

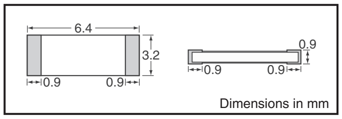

Dimensions in mm

Resistance Values (Ω)

Value (Code)	Value (Code)
.01 (R010)	.05 (R050)
.02 (R020)	.08 (R080)
.04 (R040)	.10 (R100)

Power Rating @ 70°C	Insulation Resistance	Operating Temperature Range	Temperature Coefficient	Tolerance
3W	> 100MΩ	-55°C ~ 170°C	±75ppm/°C	±1%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape & Reel Pricing 4,000	Bourns Part No.
1%, 3W, 2512	.01 ~ .10	CRA2512-FZ-(Code)ELFCT-ND	.49	3.12	23.40	CRA2512-FZ-(Code)ELFTR-ND	195.00/M	CRA2512-FZ-(Code)ELF

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

CHF Series Power RF Chip Resistors/Terminators

5% 1206, 190104, 2010, 2525, 3523 and 3725 Series

The CHF RF Power Resistors are used in high power 50Ω terminations with excellent RF performance characteristics. Their typical function is in a “Fail Safe” mode to dissipate the transmission power in High Power RF Amplifiers. The CHF series is manufactured using thick film technology on special ceramics.

Applications: Radio/TV, telecommunications (WCDMA, CDMA, GSM), wireless technologies (Wi Max), radar and medical equipment

Dimensions in mm

Fig. 1 – 1206 Series

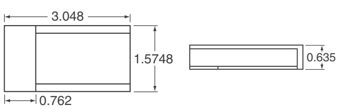

Fig. 2 – 190104 Series

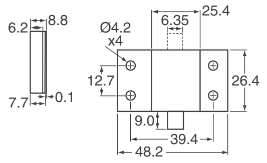

Fig. 3 – 190104 Series ***NEW!***

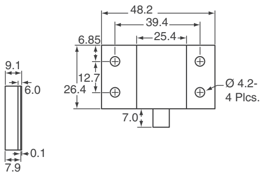

Fig. 4 – 2010 Series, Terminator

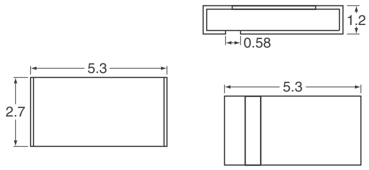

Fig. 5 – 2525 Series

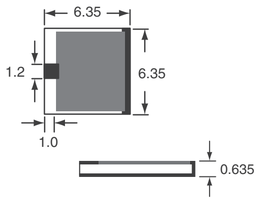

Fig. 6 – 3523 Series

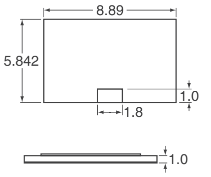

Fig. 7 – 3725 Series

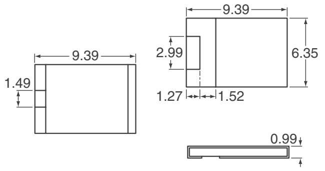

Fig. 8 – 2010 Series, Resistor

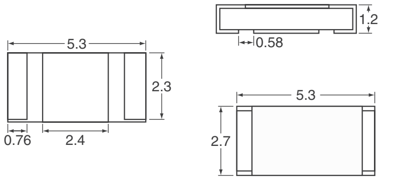

Fig.	Description	Power Rating @ 70°C	Resistance Value (Ω)	Voltage Standing Wave Ratio (Max.)	Frequency (GHz)	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
					Terminators					
1	1206 Series	20W	50	1.25V	DC-4	CHF1206CNT500LW-ND	4.04	3.68	3.17	CHF1206CNT500LW
2	190104 Series, Flanged	800W	50	1.2V	1.0	CHF190104CBF500L-ND	77.99	70.90	60.98	CHF190104CBF500L
3	190104 Series, Flanged	1,000W	50	1.25V	1.0	CHF190104KBF500L-ND ***NEW!***	99.00	90.00	77.40	CHF190104KBF500L
4	2010 Series	10W	50	1.2V	2	CHF2010CNP500LX-ND	5.72	5.20	4.48	CHF2010CNP500LX
5	2525 Series, NiSn Finish	40W	50	1.2V	9	CHF2525CNT500LW-ND	6.88	6.25	5.38	CHF2525CNT500LW
6	3523 Series	100W	50	1.1V	5	CHF3523DNT500LW-ND	7.81	7.10	6.11	CHF3523DNT500LW
7	3725 Series, SMT	40W	50	1.25V	3	CHF3725CNP500LX-ND	7.40	6.73	5.79	CHF3725CNP500LX
					Resistors					
2	190104 Series, Flanged	800W	25	1.2V	1.0	CHF190104CBF250R-ND	77.99	70.90	60.98	CHF190104CBF250R
	190104 Series, Flanged	800W	100	1.2V	1.0	CHF190104CBF101R-ND	77.99	70.90	60.98	CHF190104CBF101R
8	2010 Series	10W	100	1.2V	2.2	CHF2010CNP101RX-ND	5.72	5.20	4.48	CHF2010CNP101RX

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BOURNS® *NEW!* PWR163 Series Power Resistors

The PWR163 Series is a DPAK style surface mount power resistor. It has a very low inductance making it ideal for high frequency applications such as amplifiers for audio or wireless base stations. It has excellent pulse characteristics as well, allowing it to be used in current limiting or capacitor discharge circuits.

Features: • Smaller than a D2PAK package • Low inductance • Resistor electrically isolated from the backplate • High power rating • Compatible with lead free solder reflow temperatures

Operating Temperature Range: -55°C ~ 155°C

Dimensions in mm

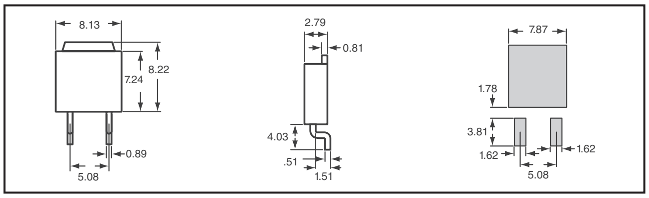

Resistance Values (Ω)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.05 (R050)	2.2 (2R20)	8.2 (8R20)	50 (50R0)
0.1 (R100)	4.7 (4R70)	10 (10R0)	10K (1002)
1 (1R00)	5 (5R00)	47 (47R0)	

Value Range (Ω)	Tolerance %	Wattage	TCR ppm/°C	Digi-Key Part No.†	Price Each 1	10	50	Bourns Part No.
0.1 ~ 4.7	±1	25	±100	PWR163S-25-(Code)F-ND	2.95	2.00	1.67	PWR163S-25-(Code)F
5 ~ 10K	±1	25	±100	PWR163S-25-(Code)F-ND	2.82	1.92	1.60	PWR163S-25-(Code)F
0.05 ~ 4.7	±5	25	±100	PWR163S-25-(Code)J-ND	2.64	1.79	1.49	PWR163S-25-(Code)J
5 ~ 10K	±5	25	±100	PWR163S-25-(Code)J-ND	2.62	1.73	1.44	PWR163S-25-(Code)J

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

PWR263 Series Power Resistors

The PWR263 Series is a TO263 DPAK style power resistor. Manufactured using thick film on alumina ceramic technology, it is used in current measurement, snubber, bleeder and discharge circuits.

Features: • D2PAK housing • Low inductance • Resistor electrically isolated from the backplate • High power rating **Operating Temperature Range:** -55°C ~ 155°C

Dimensions in mm

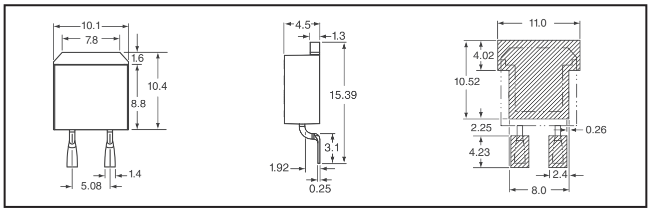

Resistance Values (Ω)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.5 (R500)	4.7 (4R70)	30 (30R0)	1000 (1001)
0.75 (R750)	5.6 (5R60)	33 (33R0)	3300 (3301)
1.0 (1R00)	7.5 (7R50)	47 (47R0)	10K (1002)
1.5 (1R50)	10 (10R0)	56 (56R0)	30K (3002)
2.0 (2R00)	12 (12R0)	75 (75R0)	100K (1003)
2.5 (2R50)	15 (15R0)	100 (1000)	130K (1303)
3.0 (3R00)	20 (20R0)	330 (3300)	
3.3 (3R30)	27 (27R0)	470 (4700)	

Value Range (Ω)	Tolerance %	Wattage	Digi-Key Part No.†	Price Each 1	10	50	Bourns Part No.
0.5 ~ 130K	1	20	PWR263S-20-(Code)F-ND	5.72	5.20	4.48	PWR263S-20-(Code)F
	5	20	PWR263S-20-(Code)J-ND	4.62	4.20	3.62	PWR263S-20-(Code)J

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

NEW! PWR220T-20 Series Power Resistors

The PWR220T-20 Series is a TO-220 DPAK style power resistor. Manufactured using thick film on alumina ceramic technology, it is used in current measurement, snubber, bleeder and discharge circuits.

Features: • TO-220 housing • Low inductance • Resistor electrically isolated from the backplate • High power rating **Operating Temperature:** -55°C ~ 155°C

Dimensions in mm (inch)

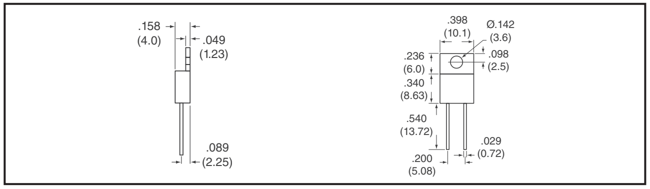

Resistance Values (Ω)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.1 (R100)	2.0 (2R00)	5.6 (5R60)	75 (75R0)
0.50 (R500)	2.5 (2R50)	7.5 (7R50)	100 (1000)
0.75 (R750)	3.0 (3R00)	10 (10R0)	330 (3300)
1.0 (R00)	3.3 (3R30)	47 (47R0)	470 (4700)
1.5 (1R50)	4.7 (4R70)	50 (50R0)	1000 (1001)

Value Range (Ω)	Tolerance %	Wattage	TCR ppm/°C	Digi-Key Part No.†	Price Each 1	10	50	Bourns Part No.
.1 ~ 4.7	±1	20	±100	PWR220T-20-(Code)F-ND	3.93	3.58	3.08	PWR220T-20-(Code)F
5.6 ~ 1000	±1	20	±100	PWR220T-20-(Code)F-ND	3.58	3.25	2.80	PWR220T-20-(Code)F

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

PWR2010 / 3014 / 4318 / 5322 Series

Surface Mount Wirewound Resistors

These surface mount wirewound resistors boast a high power density and excellent pulse power characteristics. They can be used in a wide range of applications where surge voltages or inrush currents are present.

Features: • Large terminals and optimized body shape for power dissipation • Excellent surge capabilities • Low TCR **Operating Temperature:** -55°C ~ 155°C

Series	Dimensions - mm A	B	C	D	F	H	L	W
PWR2010	5.08	2.54	3.25	1.663	1.28	2.16	6.48	1.98
PWR3014	7.5	3.50	3.65	2.566	1.75	2.95	8.9	2.45
PWR4318	11.0	4.50	4.65	3.590	2.00	3.70	12.5	3.20
PWR5322	13.5	5.50	5.65	4.20	2.50	4.20	14.9	3.70

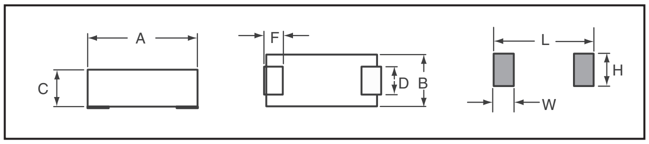

Resistance Values (Ω)

2010 Series

Value (Code)	Value (Code)
0.10 (R100)	7.5 (7R50)
0.25 (R250)	10 (10R0)
0.50 (R500)	24 (24R0)
0.75 (R750)	47 (47R0)
1.0 (1R00)	100 (1000)
5.0 (5R00)	

3014 Series

Value (Code)	Value (Code)
0.50 (R500)	10 (10R0)
0.75 (R750)	24 (24R0)
1.0 (1R00)	47 (47R0)
5.0 (5R00)	75 (75R0)
7.5 (7R50)	100 (1000)

4318 & 5322 Series

Value (Code)	Value (Code)
0.10 (R100)	7.5 (7R50)
0.25 (R250)	10 (10R0)
0.50 (R500)	24 (24R0)
0.75 (R750)	47 (47R0)
1.0 (1R00)	75 (75R0)
5.0 (5R00)	100 (1000)

Series	Value Range (Ω)	Tolerance %	Wattage	Digi-Key Part No.†	Cut Tape Price Each 1	10	100	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Bourns Part No.
PWR2010	0.10 ~ 100	5	0.5	PWR2010W(Code)JECT-ND	1.37	.87	.65	PWR2010W(Code)JETR-ND	2,500	540.00/M	PWR2010W(Code)JE
PWR3014	0.50 ~ 100	5	1.0	PWR3014W(Code)JECT-ND	1.29	.82	.62	PWR3014W(Code)JETR-ND	1,500	510.00/M	PWR3014W(Code)JE
PWR4318	0.10 ~ 100	5	2.0	PWR4318W(Code)JECT-ND	1.33	.84	.63	PWR4318W(Code)JETR-ND	1,500	525.00/M	PWR4318W(Code)JE
PWR5322	0.10 ~ 100	5	3.0	PWR5322W(Code)JECT-ND	1.41	.89	.67	PWR5322W(Code)JETR-ND	1,500	555.00/M	PWR5322W(Code)JE

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BOURNS® PWR4412-2S Series — Bare Metal Element Resistor

RoHS COMPLIANT

The PWR4412-2S Series is a through hole resistor designed for current shunt and current sensing applications such as power supplies of different kinds, motor drives and many other applications. The resistor is quite rugged, consisting of a special metal alloy welded to tinned copper leads. **Features:** • High current capability • Low inductance • Radial leads • Low ohmic **Electrical Specifications:** • Temperature Coefficient (TCR): -65°C<T<170°C ±20 PPM/°C • Operating Temperature: -40°C ~ 125°C • Inductance: 10nH

Version	Resistance (Ω)	Tolerance %	Wattage @ 85°C	Dimensions – mm		Digi-Key Part No.	Price Each			Bourns Part No.
				L	H		1	10	50	
B	.01	1	1.0	11.43 +1.02/-0.51	5.08 ±2.54	PWR4412-2SBR0100F-ND	1.07	.98	.84	PWR4412-2SBR0100F
	.01	5	1.0	11.43 +1.02/-0.51	5.08 ±2.54	PWR4412-2SBR0100J-ND	1.07	.98	.84	PWR4412-2SBR0100J
	.03	1	1.0	11.43 +1.02/-0.51	5.08 ±2.54	PWR4412-2SBR0300F-ND	1.07	.98	.84	PWR4412-2SBR0300F
C	.01	1	3.0	15.24 +1.02/-0.51	25.4 Max.	PWR4412-2SCR0100F-ND	1.07	.98	.84	PWR4412-2SCR0100F
	.03	1	3.0	15.24 +1.02/-0.51	25.4 Max.	PWR4412-2SCR0300F-ND	1.07	.98	.84	PWR4412-2SCR0300F
D	.01	1	5.0	20.32 +1.02/-0.51	25.4 Max	PWR4412-2SDR0100F-ND	1.07	.98	.84	PWR4412-2SDR0100F
	.01	5	5.0	20.32 +1.02/-0.51	25.4 Max	PWR4412-2SDR0100J-ND	1.07	.98	.84	PWR4412-2SDR0100J
	.03	1	5.0	20.32 +1.02/-0.51	25.4 Max	PWR4412-2SDR0300F-ND	1.07	.98	.84	PWR4412-2SDR0300F

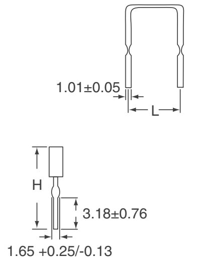

Dimensions in mm

NEW! PWR4413 Series — Current Sense Resistors

RoHS COMPLIANT

The PWR4413 Series is a through hole current sense resistor with a high overload capability and a wide operating temperature range. **Features:** • Low inductance • High power **Electrical Specifications:** • Temperature Range: -55°C ~ 325°C • Maximum Working Voltage: √P*R • Tolerance: 1%

Power Rating (W)	Resistance (Ω)	Dimensions – mm			Digi-Key Part No.	Price Each			Bourns Part No.
		L	H (Max.)	W		1	10	50	
1	.01	11.43 + 1.02/-0.51	13.5	0.8 ± 0.05	PWR4413BR010F-ND	.74	.68	.59	PWR4413BR010F
	.02	11.43 + 1.02/-0.51	13.5	0.8 ± 0.05	PWR4413BR020F-ND	.74	.68	.59	PWR4413BR020F
	.025	11.43 + 1.02/-0.51	13.5	0.8 ± 0.05	PWR4413BR025F-ND	.74	.68	.59	PWR4413BR025F
	.03	11.43 + 1.02/-0.51	13.5	0.8 ± 0.05	PWR4413BR030F-ND	.74	.68	.59	PWR4413BR030F
	.05	11.43 + 1.02/-0.51	13.5	0.8 ± 0.05	PWR4413BR050F-ND	.74	.68	.59	PWR4413BR050F
3	.01	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR010F-ND	1.05	.95	.82	PWR4413CR010F
	.025	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR025F-ND	.83	.75	.65	PWR4413CR025F
	.03	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR030F-ND	.83	.75	.65	PWR4413CR030F
	.04	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR040F-ND	.83	.75	.65	PWR4413CR040F
	.05	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR050F-ND	.83	.75	.65	PWR4413CR050F
	.1	15.24 + 1.02/-0.51	16.0	1.0 ± 0.05	PWR4413CR100F-ND	.83	.75	.65	PWR4413CR100F
5	.01	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR010F-ND	1.07	.98	.84	PWR4413DR010F
	.02	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR020F-ND	.94	.85	.74	PWR4413DR020F
	.025	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR025F-ND	.94	.85	.74	PWR4413DR025F
	.03	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR030F-ND	.94	.85	.74	PWR4413DR030F
	.04	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR040F-ND	.94	.85	.74	PWR4413DR040F
	.05	20.32 + 1.02/-0.51	26.0	1.0 ± 0.05	PWR4413DR050F-ND	.94	.85	.74	PWR4413DR050F

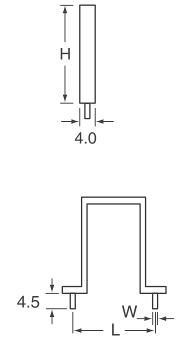

Dimensions in mm

CTS® Thick Film Current Sensing Resistors – 73xx Series

Features: • Thick film construction • Very low resistance • Surface mount package • Suitable for current limiting, current detection, motor control, power supply and hard disk drives • High precision and excellent accuracy for current detection • Good electrical characteristics • Suitable for reflow soldering

RoHS COMPLIANT

Digi-Reel®

Series	Package Code Inch (mm)	Dimensions – mm			
		L	W	d	t
73L1	0402 (1005)	1.00 ±0.05	0.50 ±0.03	0.25 ±0.10	0.35 ±0.05
73L2	0603 (1608)	1.60 ±0.15	0.80 +0.20/-0.10	0.25 ±0.20	0.50 +0.15/-0.05
73L3	0805 (2012)	2.00 +0.20/-0.10	1.25 +0.20/-0.10	0.40 ±0.20	0.50 +0.15/-0.05
73L4	1206 (3216)	3.20 +0.10/-0.15	1.60 +0.10/-0.15	0.50 ±0.20	0.55 +0.15/-0.05
73L5	1210 (3225)	3.20 +0.10/-0.15	2.60 +0.10/-0.15	0.50 ±0.20	0.55 +0.15/-0.05
73L6	2010 (5025)	5.00 ±0.15	2.50 ±0.15	0.60 ±0.25	0.56 ±0.15
73L7	2512 (6432)	6.30 ±0.15	3.20 ±0.15	0.60 ±0.25	0.56 ±0.15
73E4	1206 (3216)	3.20 ±0.10	1.60 ±0.10	0.50 ±0.20	0.55 ±0.10
73E6	2010 (5024)	5.00 ±0.15	2.50 ±0.15	0.60 ±0.25	0.55 ±0.15

73L1 and 73L2 Series Resistance Value Charts

Value (Code)	Value (Code)
.20 (R20) .47 (R47)	.56 (R56) .91 (R91)

73L3, 73L4, 73L5, 73L6, and 73L7 Series Resistance Value Charts

Value (Code)	Value (Code)
.10 (R10) .20 (R20) .47 (R47)	.56 (R56) .91 (R91)

73E4 and 73E6 Series Resistance Value Charts

Value (Code)	Value (Code)
.050 (R050) .056 (R056)	.062 (R062) .091 (R091)

Series	Package Size Inch (mm)	Wattage	Value Range (Ω)	TCR ppm/°C	Resistance Tolerance	Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel Pricing			
							10	50	200		4,000	5,000	10,000	12,000
73L1	0402 (1005)	1/10	0.20 ~ 0.56	±300	±5%	73L1(Code)JCT-ND	1.24	3.33	7.65	73L1(Code)JTR-ND	—	—	8.00/M	—
73L2	0603 (1608)	1/10	0.20 ~ 0.91	±300	±5%	73L2(Code)JCT-ND	1.24	3.33	7.65	73L2(Code)JTR-ND	—	10.00/M	8.00/M	—
73L3	0805 (2012)	1/8	0.10 ~ 0.56	±200	±5%	73L3(Code)JCT-ND	1.10	2.96	6.80	73L3(Code)JTR-ND	—	8.00/M	7.00/M	—
73L4	1206 (3216)	1/4	0.10 ~ 0.91	±200	±5%	73L4(Code)JCT-ND	1.24	3.33	7.65	73L4(Code)JTR-ND	—	10.00/M	8.00/M	—
73L5	1210 (3225)	1/2	0.10 ~ 0.91	±200	±5%	73L5(Code)JCT-ND	1.93	5.18	11.90	73L5(Code)JTR-ND	—	15.00/M	14.00/M	—
73L6	2010 (5025)	3/4	0.10 ~ 0.91	±200	±5%	73L6(Code)JCT-ND	3.16	8.51	19.55	73L6(Code)JTR-ND	31.00/M	—	—	27.00/M
73L7	2512 (6432)	1.0	0.10 ~ 0.91	±200	±5%	73L7(Code)JCT-ND	5.36	14.43	33.15	73L7(Code)JTR-ND	55.00/M	—	—	48.00/M
73E4	1206 (3216)	1/2	0.050 ~ 0.091	±100	±5%	73E4(Code)JCT-ND	4.40	11.84	27.20	73E4(Code)JTR-ND	—	40.00/M	—	—
73E6	2010 (5024)	1.0	0.050 ~ 0.091	±100	±5%	73E6(Code)JCT-ND	12.10	32.56	74.80	73E6(Code)JTR-ND	113.00/M	—	—	107.00/M

§ For complete part number, substitute the corresponding code from the Resistance Values chart for (Code).

Metal Plate Current Sensing Resistors – 73Mx Series

Features: • Very low resistance • Surface mount package • Suitable for current limiting, current detection, motor control, power supply and hard disk drives • High precision and excellent accuracy for current detection • Good electrical characteristics • Suitable for reflow solder process

Digi-Reel®

RoHS COMPLIANT

Series	Dimensions – mm			
	L	W	t	d
73M1	6.2 ±0.3	3.1 ±0.2	1.0 ±0.2	1.2 ±0.3
73M2	6.4 ±0.3	3.5 ±0.2	1.2 max.	1.0 ±0.2

73M1 Series Resistance Value Chart

Value (Code)	Value (Code)
.003 (R003) .007 (R007) .009 (R009)	.010 (R010) .047 (R047) .100 (R100)

73M2 Series Resistance Value Chart

Value (Code)
.005 (R005) .009 (R009) .010 (R010) .030 (R030)

73M1 Series

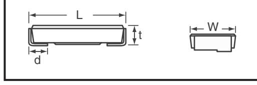

73M2 Series

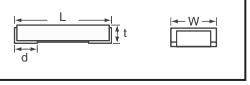

Series	Package Size (Inch)	Wattage	Value Range (Ω)	Resistance Tolerance	Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel Pricing	
						10	50	200		1,000	5,000
73M1	2412	1.0	0.003 ~ 0.009	±1%	73M1(Code)FCT-ND	17.46	46.99	107.95	73M1(Code)FTR-ND	171.00	162.00/M
	2412	1.0	0.010 ~ 0.100	±1%	73M1(Code)FCT-ND	17.33	46.62	107.10	73M1(Code)FTR-ND	169.00	160.00/M
73M2	2514	2.0	0.005 ~ 0.009	±1%	73M2(Code)FCT-ND	36.99	99.53	228.65	73M2(Code)FTR-ND	477.00	451.00/M
	2514	2.0	0.010 ~ 0.030	±1%	73M2(Code)FCT-ND	36.85	99.16	227.80	73M2(Code)FTR-ND	475.00	449.00/M

§ For complete part number, substitute the corresponding code from the Resistance Values chart for (Code).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HUNTINGTON ELECTRIC, INC.

Silicone Coated Wirewound Resistors – 1, 3, 5 Watt, 1%

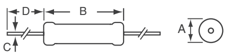

Series	A ±.8mm	B ±.8mm	C	D
ALSR-1	2.8	9.8	.5	38
ALSR-3	5.1	13.5	.8	38
ALSR-5	7.9	23.8	.8	38

RESISTANCE VALUE CHART

.10
.13
.15
.20
.25
.30
.33
.50
.75
1.0
1.5
2.0
3.0
4.0
5.0
7.5
10
12
15
18
20
22
25
27
30
33
35
39
40
47
50
56
68
75
82
100
120
125
150
180
200
220
225
250
270
300
330
350
390
400
470
500
560
600
680
700
750
800
820
900
1.0K
1.1K
1.2K
1.5K
1.8K
2.0K
2.2K
2.5K
2.7K
3.0K
3.5K
3.9K
4.0K
4.7K
5.0K
5.6K
6.0K
6.8K
7.5K
8.0K
8.2K
10.0K
12.5K
15.0K
20.0K
25.0K

Electrical Specifications

Series	ALSR-1	ALSR-3, ALSR-5
Resistance Tolerance	±1%	±1%
Dielectric Withstanding Voltage	500VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
.10 ~ .75	1	ALSR1F-(Value)-ND	1.98	1.76	1.54	1.35	ALSR-1-(Value)-1%
1.0 ~ 900	1	ALSR1F-(Value)-ND	1.95	1.74	1.52	1.33	ALSR-1-(Value)-1%
1.0K ~ 3.0K	1	ALSR1F-(Value)-ND	2.02	1.79	1.56	1.37	ALSR-1-(Value)-1%
.10 ~ 10.0K	3	ALSR3F-(Value)-ND	1.80	1.60	1.40	1.22	ALSR-3-(Value)-1%
.10 ~ 900	5	ALSR5F-(Value)-ND	1.77	1.57	1.37	1.20	ALSR-5-(Value)-1%
1.0K ~ 8.2K	5	ALSR5F-(Value)-ND	1.71	1.52	1.32	1.16	ALSR-5-(Value)-1%
10.0K ~ 25.0K	5	ALSR5F-(Value)-ND	1.77	1.57	1.37	1.20	ALSR-5-(Value)-1%

† For complete part number, substitute value from Resistance Value Chart for (Value).

Silicone Coated Wirewound Resistors – 1, 3, 5, 10 Watt, 5%

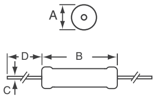

Series	A ±.8mm	B ±.8mm	C	D
ALSR-1	2.8	9.8	.5	38
ALSR-3	5.1	13.5	.8	38
ALSR-5	7.9	23.8	.8	38
ALSR-10	7.9	45.7	.8	38

RESISTANCE VALUE CHART

.10
.13
.15
.20
.25
.30
.33
.50
.75
1.0
1.5
2.0
3.0
4.0
5.0
7.5
10
12
15
18
20
22
25
27
30
33
35
39
40
47
50
56
68
75
82
100
120
125
150
180
200
220
225
250
270
300
330
350
390
400
450
470
500
560
600
680
700
750
800
820
900
1.0K
1.1K
1.2K
1.25K
1.5K
1.75K
1.8K
2.0K
2.2K
2.25K
2.5K
2.7K
3.0K
3.3K
3.5K
3.9K
4.0K
4.5K
4.7K
5.0K
5.6K
6.0K
6.8K
7.0K
7.5K
8.0K
8.2K
8.5K
9.0K
10.0K
11.0K
12.0K
12.5K
13.5K
15.0K
16.0K
17.5K
18.0K
20.0K
22.0K
22.5K
25.0K

Electrical Specifications:

Series	ALSR-1	ALSR-3	ALSR-5	ALSR-10
Resistance Tolerance	±5%	±5%	±5%	±5%
Power Rating	1 Watts at 25°C	3 Watts at 25°C	5 Watts at 25°C	10 Watts at 25°C
Dielectric Withstanding Voltage	500VAC	1000VAC	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds		10 X rated wattage for 5 seconds	

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
.10 ~ .75	1	ALSR1J-(Value)-ND◆	1.64	1.46	1.28	1.12	ALSR-1-(Value)
1.0 ~ 900	1	ALSR1J-(Value)-ND◆	1.58	1.41	1.23	1.08	ALSR-1-(Value)
1.0K ~ 10.0K	1	ALSR1J-(Value)-ND◆	1.86	1.65	1.44	1.26	ALSR-1-(Value)
.10 ~ 4.7K	3	ALSR3J-(Value)-ND◆	1.58	1.40	1.17	1.02	ALSR-3-(Value)
5.0K ~ 10.0K	3	ALSR3J-(Value)-ND◆	1.72	1.52	1.28	1.11	ALSR-3-(Value)
.10 ~ 25.0K	5	ALSR5J-(Value)-ND◆	1.55	1.38	1.20	1.05	ALSR-5-(Value)
.10 ~ .75	10	ALSR10-(Value)-ND	1.98	1.76	1.54	1.35	ALSR-10-(Value)
1.0 ~ 680, 750 ~ 900	10	ALSR10-(Value)-ND◆	1.71	1.52	1.32	1.16	ALSR-10-(Value)
1.0K ~ 2.7K	10	ALSR10-(Value)-ND◆	1.83	1.63	1.42	1.24	ALSR-10-(Value)
3.0K ~ -9.0K	10	ALSR10-(Value)-ND◆	2.11	1.87	1.64	1.43	ALSR-10-(Value)
10.0K ~ 25.0K	10	ALSR10-(Value)-ND◆	2.33	2.07	1.80	1.58	ALSR-10-(Value)

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistance Value Chart for (Value).

Vitreous Enamel Wirewound Power Resistors – 8, 12 Watt

Series	A	B	C	D	E	F
FVTS-5	7.94	25.40	4.76	11.11	.81	50.80
FVTS-10	7.94	44.45	4.76	11.11	.81	50.80

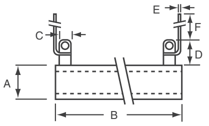

Electrical Specifications:

Series	FVTS-5	FVTS-10
Resistance Tolerance	±5% 1Ω and above ±10% 1Ω and below	±5% 1Ω and above ±10% 1Ω and below
Power Rating	8 Watts at 25°C	12 Watts at 25°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	10 X rated wattage for 5 seconds

RESISTANCE VALUE CHART

2.0
3.0
5.0
7.5
10
15
20
25
35
50
75
100
125
150
200
250
300
400
450
500
600
750
900
1.0K
1.2K
1.25K
1.5K
2.0K
2.5K
3.0K
3.5K
4.0K
4.5K
5.0K
6.0K
7.0K
7.5K
8.0K
9.0K
10.0K
12.0K
15.0K
20.0K
25.0K
40.0K
50.0K

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
5.0 ~ 4.5K	8	FVTS5-(Value)-ND	2.80	2.50	2.15	1.85	FVTS-5-(Value)
5.0K ~ 9.0K	8	FVTS5-(Value)-ND	3.00	2.68	2.31	1.98	FVTS-5-(Value)
10.0K	8	FVTS5-(Value)-ND	3.08	2.75	2.37	2.04	FVTS-5-(Value)
2.0 ~ 5.0K, 7.5K ~ 9.0K	12	FVTS10-(Value)-ND	3.47	3.10	2.67	2.30	FVTS-10-(Value)
10.0K ~ 20.0K	12	FVTS10-(Value)-ND	3.75	3.35	2.89	2.48	FVTS-10-(Value)
25.0K	12	FVTS10-(Value)-ND	4.14	3.70	3.19	2.74	FVTS-10-(Value)
40.0K, 50.0K	12	FVTS10-(Value)-ND	4.91	4.45	3.78	3.31	FVTS-10-(Value)

† For complete part number, substitute value from Resistance Value Chart for (Value).

Vitreous Enamel Wirewound Power Resistors – 25, 50, 100, 225 Watt

RESISTANCE VALUE CHART

1.0
2.0
3.0
5.0
10
25
50
100
150
200
250
500
750
1.0K
2.5K
4.0K
5.0K
10.0K
12.0K
25.0K
50.0K

AVT

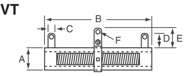

FVT

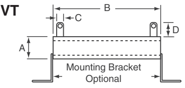

Series	A	B	C	D	E	F
AVT25	14.29	50.80	6.35	14.29	17.46	4.22
AVT50	14.29	101.60	6.35	14.29	17.46	4.22
AVT100	19.05	165.10	6.35	14.29	17.46	4.22
AVT200	28.58	266.70	7.94	15.88	22.23	4.22
FVT25	14.29	50.80	6.35	14.29	—	—
FVT50	14.29	101.60	6.35	14.29	—	—
FVT100	19.05	165.10	6.35	14.29	—	—
FVT200	28.58	266.70	7.94	15.88	—	—

ADJUSTABLE AVT SERIES: • **Resistance Tolerance:** ±10%, wattage rating applied only when the entire resistance is in the circuit • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

FIXED FVT SERIES: • **Resistance Tolerance:** ±5% above 1Ω • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
2.0 ~ 3.0, 10, 25, 100, 500 ~ 4.0K	25	FVT25-(Value)-ND	3.33	2.98	2.56	2.21	FVT-25-(Value)
5.0K	25	FVT25-(Value)-ND	3.58	3.20	2.76	2.37	FVT-25-(Value)
10.0K ~ 12.0K	25	FVT25-(Value)-ND	3.84	3.43	2.95	2.54	FVT-25-(Value)
25.0K ~ 50.0K	25	FVT25-(Value)-ND	4.47	4.05	3.44	3.01	FVT-25-(Value)
1.0 ~ 100, 500, 1.0K, 5.0K	50	FVT50-(Value)-ND	4.50	4.07	3.46	3.03	FVT-50-(Value)
1.0, 2.0, 5.0	100	FVT100-(Value)-ND	7.13	6.69	5.50	4.76	FVT-100-(Value)
10, 50, 100, 250, 1.0K	100	FVT100-(Value)-ND	6.48	6.08	5.00	4.32	FVT-100-(Value)
1.0, 3.0, 5.0	225	FVT200-(Value)-ND	14.28	12.98	10.06	9.25	FVT-200-(Value)
10, 50, 100, 250, 500, 1.0K	225	FVT200-(Value)-ND	11.90	10.82	8.39	7.71	FVT-200-(Value)
1.0, 3.0 ~ 100, 250, 100	25	AVT25-(Value)-ND	6.14	5.55	4.72	4.13	AVT-25-(Value)
1.0 ~ 100, 500, 1.0K	50	AVT50-(Value)-ND	6.62	6.21	5.11	4.42	AVT-50-(Value)
1.0, 2.0	100	AVT100-(Value)-ND	11.86	10.78	8.36	7.69	AVT-100-(Value)
10, 50, 100, 250, 1.0K	100	AVT100-(Value)-ND	9.55	8.96	7.37	6.37	AVT-100-(Value)
1.0 ~ 5.0	225	AVT200-(Value)-ND	18.78	16.91	14.09	13.15	AVT-200-(Value)
10 ~ 500	225	AVT200-(Value)-ND	14.87	13.52	10.48	9.64	AVT-200-(Value)
1.0K	225	AVT200-(Value)-ND	15.62	14.20	11.01	10.12	AVT-200-(Value)
Mounting Bracket for 25/50W Resistors		B1003-ND‡	1.27/2	.47	.33	—	B1003
Mounting Bracket for 100W Resistors		B1002-ND‡	1.09/2	.46	.36	—	B1002
Mounting Bracket for 225W Resistors		B1001-ND‡	1.18/2	.49	.38	—	B1001

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor

HUNTINGTON ELECTRIC, INC.

Ultra Precision Wirewound Resistors 1/8 Watt, 1/4 Watt, .01, .05, .1%

MR102 and MR106 Series

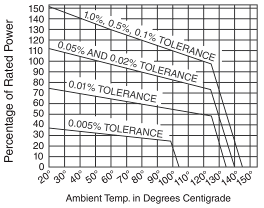

RESISTANCE VALUE CHART

100	350	10K
250	1K	100K

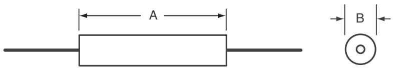

Series	Value Range (Ω)	Res. Tol. (%)	Max. Wattage (W)	Max. Voltage (V)	Dimensions (mm) A	B	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
MR102	100 ~ 10K	±0.01	1/8	125	9.52	4.75	MR102-(Value)-.01-ND	5.95	4.76	3.93	3.69	MR102-xxx-.01%
	100K	±0.01	1/8	125	9.52	4.75	MR102-100K-.01-ND	6.86	6.44	5.30	4.58	MR102-100K-.01%
	100 ~ 10K	±0.5	1/8	125	9.52	4.75	MR102-(Value)-.05-ND	5.02	4.54	3.86	3.38	MR102-xxx-.05%
	100K	±0.5	1/8	125	9.52	4.75	MR102-100K-.05-ND	5.98	5.41	4.60	4.03	MR102-100K-.05%
	100 ~ 10K	±.1	1/8	125	9.52	4.75	MR102-(Value)-.1-ND	4.58	4.14	3.52	3.08	MR102-xxx-.1%
	100K	±.1	1/8	125	9.52	4.75	MR102-100K-.1-ND	6.86	6.44	5.30	4.58	MR102-100K-.1%
MR106	100 ~ 10K	±0.01	1/4	250	12.70	6.35	MR106-(Value)-.01-ND	6.19	5.60	4.76	4.17	MR106-xxx-.01%
	100K	±0.01	1/4	250	12.70	6.35	MR106-100K-.01-ND	6.86	6.44	5.30	4.58	MR106-100K-.01%
	100 ~ 10K	±0.5	1/4	250	12.70	6.35	MR106-(Value)-.05-ND	5.02	4.54	3.86	3.38	MR106-xxx-.05%
	100K	±0.5	1/4	250	12.70	6.35	MR106-100K-.05-ND	5.98	5.41	4.60	4.03	MR106-100K-.05%
	100 ~ 10K	±.1	1/4	250	12.70	6.35	MR106-(Value)-.1-ND	4.58	4.14	3.52	3.08	MR106-xxx-.1%
	100K	±.1	1/4	250	12.70	6.35	MR106-100K-.1-ND	6.86	6.44	5.30	4.58	MR106-100K-.1%

† For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Medium Voltage Chassis Mount Resistors – 600 Watt, 10% HPK600 Series

Dim. in mm

Specifications:
• Operating Temperature: -55°C~150°C • Temperature Coefficient: ±150 PPM/°C • Power Rating: 600 Watts @ 85°C heat sink temperature** • Electric Strength Voltage: 6 KVAC, 50 HZ • Insulation Resistance: 10 GΩ minimum @ 500 V • Maximum Working Voltage: 5000 VDC • Short Time Overload: 1000 Watts @ 70°C for 10 seconds • Single Shot Voltage: Up to 12kv normal wave • Derating: 8.73 W/C

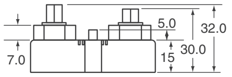

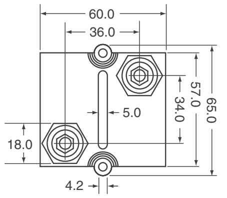

Resistance Range (Ω)	Resistance Tolerance	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
2 ~ 10	±10%	HPK600K(Value)R-ND	98.18	83.74	79.41	75.08	HPK600KxxxR
50 ~ 10000	±10%	HPK600K(Value)R-ND	92.82	79.17	75.08	70.98	HPK600KxxxR

† For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

RESISTANCE VALUE CHART

2	10	500
3	50	1000
4	75	5000
5	100	10000

G

Miniature Oval Wirewound Resistors – 10, 20 Watt, 5, 10% FSOT Series

H.E.I. Miniature Oval Wirewound Resistors are ideally suited for applications where space is limited and the mounting surface can be utilized for heat dissipation purposes. The aluminum mounting brackets extend through the resistor core and equalize heat distribution while conducting heat directly into the mounting surface.

Specifications:
• Mounting Brackets: Constructed of aluminum and are an integral part of the resistor • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: 500 VAC measured from terminals to mounting brackets • Overload: 10 X rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Steatite ceramic

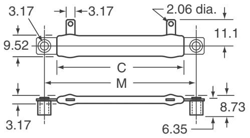

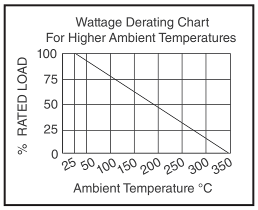

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage	Dim. (mm) C	M	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
FSOT-10	.25 ~ .5 1 ~ 5K	10% 5%	10	19.1	25.4	FSOT10-(Value)-ND	4.11	3.72	3.16	2.77	FSOT10-xxx-10% FSOT10-xxx-5%
FSOT-20	.25 ~ .5 1 ~ 5K	10% 5%	20	50.8	58.7	FSOT20-(Value)-ND	5.46	4.94	4.20	3.68	FSOT20-xxx-10% FSOT20-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

† For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 10" x 10" x .040" steel mounting surface or equivalent.

Standard Oval Silicone Resistors — 30, 40, 55, Watt 5, 10% FSOT Series

Specifications:
• Mounting Brackets: Standard oval resistors are supplied with a plated steel mounting bracket and aluminum standoff • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: Measured from terminals to mounting brackets. 1000 VAC • Overload: 10 x rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Ceramic

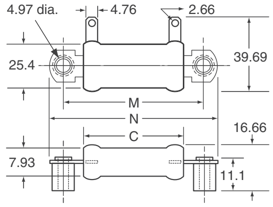

Series	Resistance Range (Ω)	Resistance Range (%)	Watt	Dimensions (mm) C	M	N	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
FSOT-30	.25 ~ .5K 1 ~ 5K	10% 5%	30	31.75	50.8	63.5	FSOT30-(Value)-ND	7.56	7.09	5.83	5.04	FSOT30-xxx-10% FSOT30-xxx-5%
FSOT-40	.25 ~ .5K 1 ~ 5K	10% 5%	40	50.8	69.9	82.5	FSOT40-(Value)-ND	8.18	7.68	6.31	5.46	FSOT40-xxx-10% FSOT40-xxx-5%
FSOT-55	.25 ~ .5K 1 ~ 5K	10% 5%	55	88.9	108.0	120.7	FSOT55-(Value)-ND	8.83	8.28	6.81	5.89	FSOT55-xxx-10% FSOT55-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

† For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 254mm x 254mm x 1.02mm steel mounting surface or equivalent.

LO-OHM Power Resistors — 1, 3, 4, 5 Watt, 1%

Huntington Electric's Lo-Ohm resistors are ideal for current sensing applications in test instruments, power amplifiers, and switching and linear power supplies. These resistors are transfer-molded in high-temperature resin, providing a high power dissipation to size characteristic. This construction also provides superior thermal shock and moisture resistance. The encapsulation will not peel, flake or deteriorate with commonly used cleaning solvents, including Freon, and aqueous cleaning.

Specifications: • Resistance Tolerance: ±1% • Dielectric Strength: 1000 VAC (except 500 VAC for MTL-1A) • Insulation Resistance: 10,000 MΩ (dry) • Short Term Overload: 5 seconds @ 5 x rated power **Applications:** • Ideal for current sensing applications • Low inductance: Typically 7nH • Standard Resistance Tolerance to ±1% • Superior thermal shock and moisture resistance

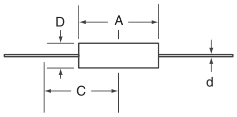

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage Rating	Dimensions (mm) A	D	C	d (AWG**)	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
MTL-1A	.005 ~ .08	1%	1	10.9	3.0	15.0	22	MTL-1A-(Value)-ND	2.95	2.62	2.28	2.00	MTL-1A-xxx-1%
MTL-2B	.005 ~ .08	1%	3	14.7	5.1	16.9	20	MTL-2B-(Value)-ND	3.01	2.67	2.33	2.04	MTL-2B-xxx-1%
MTL-3	.005 ~ .08	1%	4	15.2	6.4	17.1	20	MTL-3-(Value)-ND	2.80	2.50	2.15	1.85	MTL-3-xxx-1%
MTL-5	.005 ~ .08	1%	5	22.6	8.5	20.8	18	MTL-5-(Value)-ND	2.94	2.63	2.26	1.95	MTL-5-xxx-1%

RESISTANCE VALUE CHART

.005	.01	.02	.03	.05	.07	.08

† For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Lead Diameter: 20 AWG = 0.81mm (0.032"); 22 AWG = 6.4mm (0.25")

HUNTINGTON ELECTRIC, INC.

Printed Circuit Board Mount Silicone Resistors – 7, 10, 20 Watt, 5%

Quick and easy installation with built-in standoffs to keep the printed circuit board cool, make this a superior resistor for application where the resistor is to be mounted directly onto a board.

Specifications: • Temperature Coefficient: 0 ±400 ppm/°C 1Ω, 0 ±260 ppm/°C 20Ω or above • Dielectric Withstanding Voltage: 500 VAC • Terminals: .025 x 0.35 pre-tinned rectangular pin (Recommend .078” diameter hole for mounting) • Coating: Silicone • Overload: 10 x rated power for 5 seconds • Core: Steatite ceramic

RESISTANCE VALUE CHART

.1	25	1K
.5	50	2.5K
1	100	5K
5	250	
10	500	

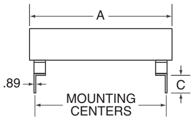

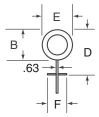

Type	Resistance Range (Ω)	Resistance Tolerance (%)	Watts	Mounting Centers Standard	Dimensions (mm) Core A	B	Typ. C	Max. D	Max. E	Max. F	Digi-Key Part No.§	Price Each 1	10	50	100	Huntington Part No.
FS-5	.1 ~ 5K	5	7	15.24	25.40	7.94	3.81	15.24	10.41	12.70	FS5-(Value)-ND	4.78	4.33	3.68	3.22	FS-5-xxx-5%
FS-10	.1 ~ 5K	5	10	33.02	44.45	7.94	3.81	15.24	10.41	12.70	FS10-(Value)-ND	5.46	4.94	4.20	3.68	FS-10-xxx-5%
FS-20	.1 ~ 5K	5	20	43.18	50.80	11.11	5.08	18.40	13.49	13.49	FS20-(Value)-ND	6.14	5.55	4.72	4.13	FS-20-xxx-5%
FS-20S	.1 ~ 5K	5	20	55.88	60.32	11.11	5.08	18.40	13.49	13.49	FS20S-(Value)-ND	6.14	5.55	4.72	4.13	FS-20S-xxx-5%

§ For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Audio Resistors – 1% MRA5 and MRA12 Series

Non-magnetic, non-inductive construction greatly enhances the frequency response

Specifications:

- Meets or exceeds the specifications in MIL-R-26E for wirewound resistors
- Meets the applicable specifications of MIL-STD-202, method 208 • Core: Alumina ceramic • Element: Nickel-chromium alloy • Leads: Tinned copper

RESISTANCE VALUE CHART
MRA5 Series

.22	1
.33	10
.39	100
.47	1K
.5	10K

RESISTANCE VALUE CHART
MRA12 Series

.5	3.0	7.0	20
1.0	3.5	8.0	30
1.5	4.0	10.0	47
2.0	5.0	12.5	100
2.5	6.0	15	1K

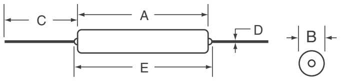

Series	Resistance Range (Ω)	Resistance Tolerance (%)	Watts	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.§	Price Each 1	10	50	100	Huntington Part No.
MRA-5	.22 ~ 1	1	5	14.3	4.2	38.1	0.81	16.5	MRA05-(Value)-ND	2.79	2.48	2.16	1.89	MRA05-xxx-1%
	10 ~ 100	1	5	14.3	4.2	38.1	0.81	16.5	MRA05-(Value)-ND	3.02	2.70	2.33	2.00	MRA05-xxx-1%
	1K	1	5	14.3	4.2	38.1	0.81	16.5	MRA05-1K-ND	4.13	3.74	3.18	2.79	MRA05-1K-1%
	10K	1	5	14.3	4.2	38.1	0.81	16.5	MRA05-10K-ND	5.12	4.63	3.94	3.45	MRA05-10K-1%
MRA-12	.5 ~ 100	1	12	30.2	7.9	38.1	1.01	32.5	MRA12-(Value)-ND	4.81	4.35	3.70	3.24	MRA12-xxx-1%
	1K	1	12	30.2	7.9	38.1	1.01	32.5	MRA12-1K-ND	5.28	4.78	4.06	3.56	MRA12-1K-1%

§ For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Current Sensing Shunts – 1%, 5% MRS Series

Series	Res. Value (Ω)	Res. Tolerance (%)	Amps	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	100	Huntington Part No.
MRS1298	.010	1	25	17.78 Max.	—	—	—	MRS129801-1-ND	3.02	2.70	2.33	2.00	MRS129801-1%
	.005	1	25	17.78 Max.	—	—	—	MRS129802-1-ND	3.02	2.70	2.33	2.00	MRS129802-1%
	.001	1	25	10.16	—	—	—	MRS129804-1-ND	3.02	2.70	2.33	2.00	MRS129804-1%
	.010	5	25	17.78 Max.	—	—	—	MRS129801-ND	2.79	2.48	2.16	1.89	MRS129801-5%
	.005	5	25	17.78 Max.	—	—	—	MRS129802-ND	2.79	2.48	2.16	1.89	MRS129802-5%
	.001	5	25	10.16	—	—	—	MRS129804-ND	2.79	2.48	2.16	1.89	MRS129804-5%
MRS1375	.002	1	30	31.75	19.05 Max.	12.70	2.03	MRS137505-1-ND	5.69	5.15	4.38	3.84	MRS137505-1%
	.001	1	40	31.75	19.05 Max.	12.70	2.03	MRS137513-1-ND	5.69	5.15	4.38	3.84	MRS137513-1%
	.002	5	30	31.75	19.05 Max.	12.70	2.03	MRS137505-ND	4.78	4.33	3.68	3.22	MRS137505-5%
	.001	5	40	31.75	19.05 Max.	12.70	2.03	MRS137513-ND	4.78	4.33	3.68	3.22	MRS137513-5%
MRS1510	.001	1	40	25.4	12.70 Max.	7.62	2.06	MRS151004-1-ND	5.69	5.15	4.38	3.84	MRS151004-1%
	.001	5	40	25.4	12.70 Max.	7.62	2.06	MRS151004-ND	5.69	5.15	4.38	3.84	MRS151004-5%

MRS1298

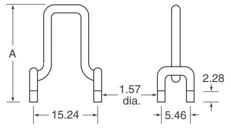

MRS1375 and MRS1510

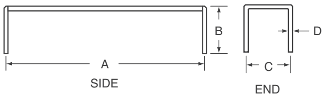

Edgewound Resistors – 300, 1000 Watt

HEI Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

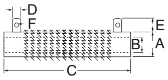

Specifications:
• **Dielectric Withstanding Voltage:** Measured from terminals to brackets, 1000VAC • **Overload:** 10 X rated power for 5 seconds • **Tolerance:** ±10% • Wattage is based on 25°C free air rating

Series	A	(Core) B	C	D	(Terminal) E	F
FVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
AVE-300‡	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
FSE-1000	63.50	44.45	381.00	12.70	15.88	6.35 - 508.00

‡ Adjustable central terminal

RESISTANCE VALUE CHART

FVE-300 Fixed			AVE-300 Adjustable			FSE-1000 Fixed	
.50	8.0	20	.10	.80	16	.25	4.5
1.2	10		.12	1.0	20	.50	10
2.0	12		.16	1.6		1.0	15
5.0	16		.20	8.0		3.5	

Resistance Range (Ω)	Wattage	Digi-Key Part No.§	Price Each 1	10	50	Huntington Part No.
.50 ~ 20	300	FVE300-(Value)-ND	13.79	12.54	9.72	FVE-300-(Value)
.10 ~ 20	300	AVE300-(Value)-ND	16.17	14.70	11.40	AVE-300-(Value)
.25 ~ 15	1000	FSE1000-(Value)-ND	47.32	41.92	36.51	FSE-1000-(Value)
FVE-300 and AVE-300 Mounting Kit		K1016-ND	9.10	—	—	K1016
FSE-1000 Mounting Kit		K3003-ND	14.28	—	—	K3003

§ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Aluminum Housed Chassis Mount Resistors – 5, 10, 25, 50 Watt, 1% (Precision Power Wirewound)

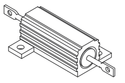

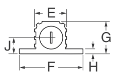

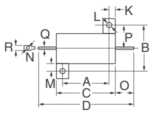

HEI’s high-power aluminum housed resistors use centerless ground ceramic cores for uniform heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solderability and meet or exceed MIL-R-18546, including “N” characteristic, and MIL-R-39009. **Specifications:** • Power Rating: Based on full power operation at 25°C, and maximum hotspot 275°C • Mounting on proper heat sink as follows: For 5 and 10 Watt – use 4” x 6” x 2” x .040” (101.60 x 152.40 x 50.80 x 1.02mm) aluminum chassis; For 25 and 50 Watt – use 5” x 7” x 2” x .040” (127.00 x 177.80 x 50.80 x 1.02mm) aluminum chassis

Electrical Specifications:

Series	TMC-5	TMC-10	TMC-25	TMC-50
MIL-R-39009/MIL-R-18546	RER-60/RE-60	RER-65/RE-65	RER-70/RE-70	RER-75/RE-75
HEI Power	7.5 Watts	12.5 Watts	25 Watts	50 Watts
MIL Power	5 Watts	10 Watts	20 Watts	30 Watts
Working Voltage	160	265	550	1250
Dielectric Strength	1000VAC	1000VAC	2500VAC	2500VAC

Series	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q AWG	R
TMC-5	11.40	12.57	16.03	30.15	8.86	16.79	8.51	1.91	3.81	2.24	2.49	2.36	1.40	8.33	7.01	16	2.97
TMC-10	14.40	16.00	19.84	36.50	11.30	20.70	10.54	2.16	5.08	2.62	2.49	2.97	2.31	9.50	8.71	12	4.37
TMC-25	18.39	19.96	27.76	50.80	13.84	27.81	14.61	2.41	6.86	4.62	3.30	3.56	2.31	12.70	10.72	12	4.37
TMC-50	39.83	21.56	50.77	72.21	16.00	29.34	16.00	2.41	7.87	5.23	3.30	3.56	2.31	12.70	11.51	12	4.37

RESISTANCE VALUE CHART

TMC-5			TMC-10			TMC-25			TMC-50				
.10	25	2.0K	.20	33	330	.10	20	500	.15	1.5	8.0	40	300
.50	30	10.0K	1.0	35	1.0K	1.0	25	1.0K	.20	2.0	10	50	500
1.0	100	15.0K	2.0	50	2.0K	2.0	40	2.0K	.25	2.5	12	75	1.0K
5.0	150		2.5	75	2.5K	3.0	100	3.0K	.30	3.3	16	100	1.5K
10	300		10	100	10.0K	12	200		.50	5.0	20	150	2.5K
12	390		25	300		15	300		1.0	6.0	30	250	5.0K

Resistance Range (Ω)	Wattage	Digi-Key Part No.§	Price Each 1	10	50	100	250	Huntington Part No.
.10-15.0K	5	TMC5-(Value)-ND	4.34	3.93	3.34	2.93	2.51	TMC-5-(Value)-1%
.20-10.0K	10	TMC10-(Value)-ND	4.03	3.60	3.10	2.67	2.31	TMC-10-(Value)-1%
.10-3.0K	25	TMC25-(Value)-ND	4.60	4.16	3.54	3.10	2.66	TMC-25-(Value)-1%
.15-5.0K	50	TMC50-(Value)-ND	4.76	4.31	3.66	3.21	2.75	TMC-50-(Value)-1%

§ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Heat Sink Mountable Thick and Thin Film Power Resistors and Heat Sinks

TAH20, TBH25, TCH35, TDH35, TEH70, TEH100 and TK20 Series — TO Style SMD and Through Hole

Dimensions in mm

Fig. 1 – TAH20

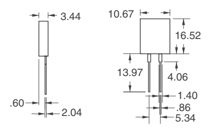

Fig. 2 – TBH25

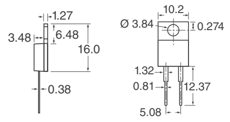

Fig. 3 – TCH35

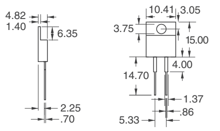

Fig. 4 – TDH35

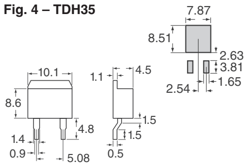

Fig. 5 – 2-Terminal TEH70

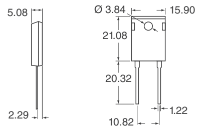

Fig. 6 – 3-Terminal TEH70

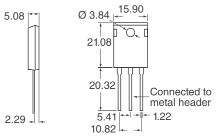

Fig. 7 – TEH100 ***NEW!***

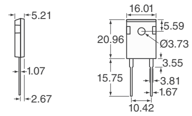

Fig. 8 – TK20

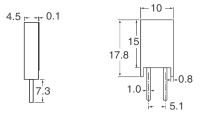

Fig. 9 – TO-247, TO-264 ***NEW!***

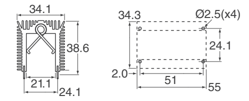

Fig. 10 – TO-220

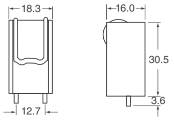

Fig. 11 – TO-247

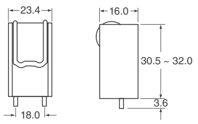

Fig. 12 – TO-263, TO-268 ***NEW!***

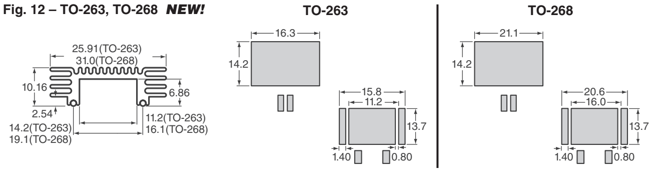
TO-263

TO-268

Fig. 13 ***NEW!***

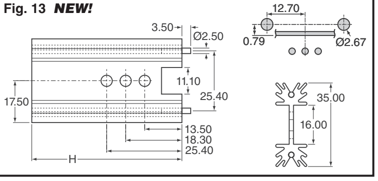

TAH20 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.05 (R050)	5.6 (5R60)	150 (150R)
.10 (R100)	7.5 (7R50)	470 (470R)
.22 (R220)	10 (10R0)	510 (510R)
.33 (R330)	15 (15R0)	1.0K (1K00)
.51 (R510)	22 (22R0)	2.7K (2K70)◊
1.0 (1R00)	47 (47R0)◊	5.1K (5K10)
1.5 (1R50)	51 (51R0)	10K (10K0)
3.3 (3R30)◊	75 (75R0)	
3.9 (3R90)	100 (100R)	

TCH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.10 (R100)	5.6 (5R60)	150 (150R)
.22 (R220)	10 (10R0)	220 (220R)
.33 (R330)	15 (15R0)	470 (470R)
.51 (R510)	22 (22R0)	510 (510R)
1.0 (1R00)	33 (33R0)	1.0K (1K00)
1.5 (1R50)	47 (47R0)	2.7K (2K70)
2.2 (2R20)	51 (51R0)	5.1K (5K10)
3.3 (3R30)	75 (75R0)	10K (10K0)
3.9 (3R90)	100 (100R)	

TEH70 Series (2- and 3-Terminal)
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.0 (2R00)	47 (47R0)	1.0K (1K00)
3.0 (3R00)	68 (68R0)	5.0K (5K00)
4.0 (4R00)	75 (75R0)	10K (10K0)
10 (10R0)	100 (100R)	
15 (15R0)	150 (150R)	
20 (20R0)	270 (270R)	
24 (24R0)	470 (470R)	
33 (33R0)	680 (680R)	

NEW! **TEH100 Series** ***NEW!***
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.050 (R050)	2.5 (2R50)	24 (24R0)
.075 (R075)	3.0 (3R00)	25 (25R0)
.10 (R100)	5.0 (5R00)	50 (50R0)
.20 (R200)	7.5 (7R50)	100 (100R)
.50 (R500)	10 (10R0)	470 (470R)
1.0 (1R00)	15 (15R0)	750 (750R)
2.0 (2R00)	20 (20R0)	1.0K (1K00)

TBH25 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
0.030 (R030)	10 (10R0)	150 (150R)
0.036 (R036)	15 (15R0)	470 (470R)
0.040 (R040)	24 (24R0)	1.0K (1K00)
0.047 (R047)	33 (33R0)	1.5K (1K50)
0.050 (R050)	39 (39R0)	
0.075 (R075)	47 (47R0)	
5.1 (5R10)	51 (51R0)	
5.6 (5R60)	75 (75R0)	
7.5 (7R50)	100 (100R)	

TDH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.10 (R100)	33 (33R0)
.15 (R150)	47 (47R0)
.20 (R200)	68 (68R0)
.36 (R360)	75 (75R0)
.47 (R470)◊	100 (100R)
.50 (R500)	150 (150R)
.75 (R750)	200 (200R)
1.0 (1R00)	250 (250R)
2.0 (2R00)	300 (300R)
3.0 (3R00)	500 (500R)
5.0 (5R00)	750 (750R)
7.5 (7R50)	1.0K (1K00)
10 (10R0)	1.5K (1K50)◊
15 (15R0)	2.5K (2K50)
20 (20R0)	3.0K (3K00)◊
25 (25R0)	5.0K (5K00)

TK20 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.030 (R030)	5.0 (5R00)
.040 (R040)	7.5 (7R50)
.050 (R050)	40 (40R0)
.100 (R100)	75 (75R0)
.300 (R300)	300 (300R)
500(R500)	1.0K (1K00)
.750 (R750)	3.0K (3K00)
1.0 (1R00)	7.5K (7K50)
3.0 (3R00)	10K (10K0)
4.0 (4R00)	

Electrical Specifications:

Series	TAH20	TBH25	TCH35/TDH35	TEH70 (2 and 3 Terminal)	TEH100	TK20
Resistance Tolerance	±5%	±5%	±5%	±5%	F=1%, J=5%	±5%
Maximum Operating Voltage	350V	350V	350V	500V	350V	150V
Dielectric Strength	1800VAC	1000VDC	1800VAC	—	1800VAC	—
Insulation Resistance	10GΩ Min.	—	10GΩ Min.	400MΩ	10GΩ Min.	—
Power Rating	20W @ 25°C	25W @ 25°C	35W @ 25°C	70W @ 25°C	100W @ 25°C	20W @ 25°C
Mounting	Requires use of a snap-on heat sink. A thermal compound should be properly applied.	Single screw mounting tab (with thermal compound recommended).	Single screw mounting tab (with thermal compound recommended).	2-Terminal is single screw mounted. 3-Terminal heat sink can be grounded through middle terminal	Single screw mounting	Heat sink dependent. Must be attached to a proper heat sink for full power rating. Maximum case temperature can not exceed 150°C. Optional recommended mounting bracket kit, 6200-ND

Fig.	Series	Resistance Range (Ω)	Digi-Key Part No.†	Price Each		
				1	100	250
1	TAH20	.33 ~ .51	TAH20P(Code)J-ND	5.38	4.41	4.24
		1.5 ~ 10K	TAH20P(Code)J-ND	4.31	3.53	3.40
4	TDH35	.47	TDH35PR470J-ND	5.92	4.85	4.67
		1.5K ~1.5K	TDH35P(Code)J-ND	5.38	4.41	4.24
RoHS Compliant						
1	TAH20	.05 ~ .51	TAH20P(Code)JE-ND	9.73	7.78	6.61
		1.00 ~ 10K	TAH20P(Code)JE-ND	6.85	5.47	4.65
2	TBH25	0.030 ~ 0.075	TBH25P(Code)JE-ND	5.47	4.84	3.54
		5.1 ~ 10	TBH25P(Code)JE-ND	6.08	4.86	4.14
		15 ~ 1.5K	TBH25P(Code)JE-ND	5.95	4.76	4.05
3	TCH35	.10 ~ .51	TCH35P(Code)JE-ND	9.23	7.37	6.27
		1.00 ~ 10K	TCH35P(Code)JE-ND	6.98	5.57	4.73
4	TDH35	.10 ~ .15	TDH35P(Code)JE-ND	10.40	7.18	6.59
		.20 ~ .36	TDH35P(Code)JE-ND	9.65	6.69	6.12
		.50	TDH35PR500JE-ND	8.48	6.00	5.38
		.75 ~ 7.5	TDH35P(Code)JE-ND	8.12	5.78	5.15
		10 ~ 5.0K	TDH35P(Code)JE-ND	7.70	5.28	4.88
5	TEH70 (2-Terminal)	2.0 ~ 10K	TEH70M(Code)JE-ND	12.13	9.70	8.25
6	TEH70 (3-Terminal)	2.0 ~ 10K	TEH70P(Code)JE-ND	11.55	9.24	7.86
7	TEH100 (1% Tolerance)	1.0 ~ 20, 25 ~ 100	TEH100M(Code)FE-ND ***NEW!***	9.97	7.12	5.70
	TEH100 (5% Tolerance)	.05 ~ .50	TEH100M(Code)JE-ND ***NEW!***	11.36	8.11	6.50
	TEH100 (5% Tolerance)	1.0 ~ 24, 50 ~ 1.0K	TEH100M(Code)JE-ND ***NEW!***	9.87	7.05	5.64
8	TK20	.030 ~ 10K	TK20P(Code)JE-ND	4.87	3.36	2.69
Mounting Bracket for the TK Series			6200-ND	1.06	.48	.41
Heat Sinks — RoHS Compliant						
9	For TO-247 and TO-264, Black Anodized with 2 Clips		MA-102-55E-ND ***NEW!***	6.93	5.01	—
	For TO-247 and TO-264 with 2 Clips		MV-102-55E-ND ***NEW!***	6.72	4.86	—
10	For TO-220, Black Anodized with Clip		WA-T220-101E-ND ***NEW!***	1.48	1.28	1.14
	For TO-220 with Clip		WV-T220-101E-ND	1.88	1.50	1.28
11	For TO-220 and TO-247, Black Anodized, Dual		WA-DT2-101E-ND ***NEW!***	3.57	2.86	2.68
	For TO-220 and TO-247, Degreased, Dual		WV-DT2-101E-ND ***NEW!***	2.55	2.04	1.91
	For TO-247, Black Anodized with Clip		WA-T247-101E-ND ***NEW!***	1.80	1.55	1.38
	For TO-247 with Clip		WV-T247-101E-ND	2.13	1.70	1.45
12	For TO-263, Black Anodized		DA-T263-101E-ND ***NEW!***	2.33	1.66	1.60
	For TO-263		DV-T263-101E-ND ***NEW!***	2.16	1.53	1.45
	For TO-268, Black Anodized		DA-T268-101E-ND ***NEW!***	1.98	1.47	1.39
	For TO-268		DV-T268-101E-ND ***NEW!***	1.84	1.33	1.28
13	For TO-220, Black Anodized, dimension H = 38.10mm		EA-T220-38E-ND ***NEW!***	2.18	1.74	1.57
	For TO-220, Black Anodized, dimension H = 50.80mm		EA-T220-51E-ND ***NEW!***	2.33	1.86	1.68
	For TO-220, Black Anodized, dimension H = 63.50mm		EA-T220-64E-ND ***NEW!***	2.60	2.08	1.88
	For T0-220, Degreased, dimension H = 38.10mm		EV-T220-38E-ND ***NEW!***	2.10	1.68	1.52
	For T0-220, Degreased, dimension H = 50.80mm		EV-T220-51E-ND ***NEW!***	2.25	1.80	1.62
	For T0-220, Degreased, dimension H = 63.50mm		EV-T220-64E-ND ***NEW!***	2.53	2.02	1.82

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

OHMITE TA Series Power Chip® Resistors — Thick Film on Alumina Substrate

5, 10 and 25 Watt

Ohmite Power Chip Resistors are thick film on alumina oxide substrates with copper plated silver conductors, Ruthenium oxide resistance material and a glass passivation layer. These resistors offer very low inductance (50nh measured at 1MHz) and outstanding power density (10W/in2). Repetitive transient capability is 5 times rated power as long as one second average dissipation remains equal to or less than the free air rating.

Features: • Wide resistance range • Low inductance • High power density • Easy to install • PC-mountable

Material: • Terminals: Solder Plated Phosphor Bronze • Coating: Glass

Electrical: • Resistance Tolerance: ±5% • Power Rating: Based on 25°C free air with linear derating to 0W at 350°C • Maximum Operating Voltage: 350VAC, 500VDC through glass 1,000VAC, 1,500VDC through substrate • Overload: Five times rated power, as long as the one second average dissipation does not exceed the wattage rating • DR: ±2%, 2000 hours • Derating: Linearly from 100% @ 25°C ~ 0% @ 350°C

TA205 Series

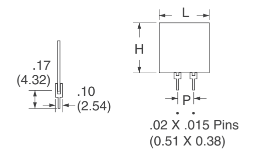

TA810 and TA025 Series

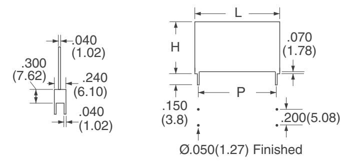

Series	Maximum Dimensions – Inch (mm) P	L (Length)	H (Height)
TA205	.200 (5.08)	.50 (12.70)	1.00 (25.40)
TA810	.800 (20.32)	1.00 (25.40)	1.00 (25.40)
TA025	1.90 (48.3)	2.220 (56.39)	1.170 (29.70)

RESISTANCE VALUE CHART

TA205 Series Value (Code)	Value (Code)	Value (Code)	TA810 Series Value (Code)	Value (Code)	TA025 Series Value (Code)
1.0 (1R00)	8.2 (8R20)	100 (100R)	1.0 (1R00)	82 (82R0)◊	2.0 (2R00)
1.2 (1R20)◊	10 (10R0)	150 (150R)◊	1.5 (1R50)	100 (100R)	3.0 (3R00)
1.5 (1R50)	12 (12R0)	200 (200R)	2.0 (2R00)	150 (150R)	5.1 (5R10)
1.8 (1R80)◊	15 (15R0)	240 (240R)	3.0 (3R00)	200 (200R)	8.2 (8R20)
2.0 (2R00)	20 (20R0)	300 (300R)	3.9 (3R90)	510 (510R)	20 (20R0)
2.4 (2R40)	24 (24R0)	330 (330R)	5.1 (5R10)	680 (680R)	30 (30R0)
3.0 (3R00)	30 (30R0)◊	470 (470R)	8.2 (8R20)	820 (820R)◊	39 (39R0)
3.3 (3R30)	33 (33R0)		10 (10R0)	1.5K (1K50)◊	51 (51R0)
3.9 (3R90)	39 (39R0)		15 (15R0)	2.0K (2K00)	82 (82R0)
4.7 (4R70)◊	47 (47R0)		20 (20R0)		200 (200R)
5.1 (5R10)	51 (51R0)		30 (30R0)		390 (390R)◊
5.6 (5R60)◊	56 (56R0)◊		39 (39R0)◊		510 (510R)
6.8 (6R80)	82 (82R0)		51 (51R0)◊		2.0K (2K00)

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	50	100	500
3.3 ~ 330	5	TA205PA(Code)J-ND	1.85	1.53	1.40	—
1.5 ~ 2.0K	10	TA810PW(Code)J-ND	2.90	2.81	2.75	2.68
390 ~ 510	25	TA025PW(Code)J-ND	8.49	6.38	5.10	—
RoHS Compliant						
1.0 ~ 470	5	TA205PA(Code)JE-ND	2.00	1.71	1.40	1.20
1.0 ~ 8.2	10	TA810PW(Code)JE-ND	4.65	3.72	2.66	2.46
10 ~ 2.0K	10	TA810PW(Code)JE-ND	4.50	3.60	2.60	2.40
2.0 ~ 2K	25	TA025PW(Code)JE-ND	7.78	6.92	5.84	4.28

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).
◊ Not available in RoHS Compliant

RW Series — SMD Wirewound Power Resistors – .6, 1, 1.5, 2, 3 and 3.5 Watt

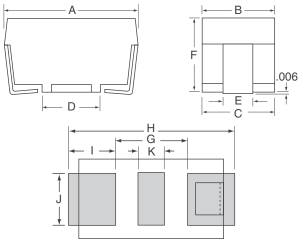

RESISTANCE VALUE CHART

RW0S6BB( )FE 1% Value (Code)	RW1S0BA( )F 1% Value (Code)	RW1S0BA( )J 5% Value (Code)	Value (Code)	RW1S5CA( )J 5% Value (Code)	RW2R0DA( )J 5% Value (Code)	RW2S0CB( )J 5% Value (Code)	RW2S0DA( )J 5% Value (Code)	RW3R0DB( )J 5% Value (Code)	Value (Code)	RW3R5EA( )J 5% Value (Code)
.100 (R100)	.010 (R010)	.005 (R005)	.100 (R100)	.005 (R005)	.010 (R010)	.005 (R005)	1.0 (1R00)	.005 (R005)	5.0 (5R00)	.010 (R010)
1.0 (1R00)	.015 (R015)	.010 (R010)	.150 (R150)	.015 (R015)	.015 (R015)	.010 (R010)	5.0 (5R00)	.010 (R010)	10.0 (10R0)	.020 (R020)
10.0 (10R0)	.020 (R020)	.015 (R015)	.200 (R200)	.040 (R040)	.020 (R020)	.020 (R020)	10.0 (10R0)	.015 (R015)	15.0 (15R0)	.030 (R030)
15.0 (15R0)	.030 (R030)	.020 (R020)	.240 (R240)	.080 (R080)	.025 (R025)	.030 (R030)	15.0 (15R0)	.025 (R025)	24.0 (24R0)	.050 (R050)
100.0 (100R)	.033 (R033)	.024 (R024)	.300 (R300)	.150 (R150)	.030 (R030)	.050 (R050)	24.0 (24R0)	.050 (R050)	47.0 (47R0)	.100 (R100)
	.039 (R039)	.027 (R027)	.360 (R360)	.500 (R500)	.050 (R050)	.150 (R150)	47.0 (47R0)	.075 (R075)	68.0 (68R0)	.200 (R200)
	.047 (R047)	.030 (R030)	.470 (R470)		.100 (R100)	.200 (R200)	68.0 (68R0)	.100 (R100)	100.0 (100R)	.500 (R500)
	.050 (R050)	.036 (R036)	.680 (R680)		.470 (R470)	.300 (R300)	100.0 (100R)	.500 (R500)	150.0 (150R)	1.00 (1R00)
	.100 (R100)	.050 (R050)	.750 (R750)		1.00 (1R00)	.500 (R500)	150.0 (150R)	1.00 (1R00)		
		.075 (R075)	1.00 (1R00)			1.00 (1R00)				

Electrical Specifications

	RW0S6BB	RW1S0BA	RW1S5CA	RW2S0CB	RW2R0DA	RW2S0DA	RW3R0DB	RW3R5EA
Power at 25°C Ambient	0.6 Watt	1 Watt	1.5 Watt	2 Watt	2 Watt	2 Watt	3 Watt	3.5 Watt
Max. Voltage	50	50	75	100	100	100	200	350
Temperature Coefficient	0.1 ~ 1Ω — ±90 ppm/° C 1 ~ 10Ω — ±50 ppm/°C 10 Ω and over — ±20 ppm/°C							
Dielectric Withstanding Voltage	1000							

Series	Maximum Dimensions – mm A	B	C	D	E	F	G	H	I	J	K
RW0S6BB	5.14	2.54	2.41 Ref.	2.00	1.64	3.42	1.98	8.33	3.20	3.18	0.66
RW1S0BA	6.76	3.58	3.38 Ref.	3.05	1.63	3.58	3.81	8.79	2.49	3.20	1.27
RW1S5CA	10.52	4.17	3.96 Ref.	5.84	2.24	4.17	6.50	13.31	3.40	3.20	1.52
RW2S0CB	10.85	5.87	5.64 Ref.	6.86	2.46	5.77	7.01	13.64	3.33	3.20	2.36
RW2R0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW2S0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW3R0DB	16.05	7.06	6.81 Ref.	10.85	3.94	5.87	12.04	18.85	3.40	3.94	2.36
RW3R5EA	21.11	7.06	6.81 Ref.	14.78	3.94	6.98	15.52	25.40	4.95	3.94	2.36

Resistance Range (Ω)	Watt-age	Toler-ance	Digi-Key Part No.†	Bulk Price Each 1	100	500	Digi-Key Part No.†	Tape and Reel Pricing 750	1,000	1,500	2,000	2,500
.015 ~ .050	1	1%	—	—	—	—	RW1S0BA(Code)FTR-ND	—	—	—	1920.00/M	—
.005 ~ .050	1	5%	RW1S0BA(Code)JBK-ND	1.96	1.68	—	RW1S0BA(Code)JTR-ND	—	—	—	1560.00/M	—
.150 ~1.00	1	5%	—	—	—	—	RW1S0BA(Code)JTR-ND	—	—	—	1890.00/M	—
.005 ~ .040	1.5	5%	—	—	—	—	RW1S5CA(Code)JTR-ND	—	—	1370.00/M	—	—
.500	1.5	5%	RW1S5CAR500JBK-ND	2.26	1.92	—	RW1S5CA(Code)JTR-ND	—	—	1810.00/M	—	—
.050	2	1%	—	—	—	—	RW2R0DAR050FTR-ND	—	1620.00	—	—	—
.020 ~ .050	2	5%	RW2R0DA(Code)JBK-ND	2.04	1.74	—	RW2R0DA(Code)JTR-ND	—	1420.00	—	—	—
.470 ~ 1.00	2	5%	RW2R0DA(Code)JBK-ND	2.12	1.80	—	RW2R0DA(Code)JTR-ND	—	1700.00	—	—	—
.020 ~ 050	2	5%	—	—	—	—	RW2S0CB(Code)JTR-ND	—	1360.00	—	—	—
.200 ~ 1.00	2	5%	—	—	—	—	RW2S0CB(Code)JTR-ND	—	1730.00	—	—	—
.005 ~ .036	3	5%	—	—	—	—	RW3R0DB(Code)JTR-ND	—	1620.00	—	—	—
.075 ~ 150.0	3	5%	RW3R0DB(Code)JBK-ND	2.78	2.31	—	RW3R0DB(Code)JTR-ND	—	1840.00	—	—	—
.025 ~ .050	3.5	5%	—	—	—	—	RW3R5EA(Code)JTR-ND	1297.50	—	—	—	—
.200	3.5	5%	RW3R5EAR200JBK-ND	2.87	—	—	RW3R5EA(Code)JTR-ND	1387.50	—	—	—	—
RoHS Compliant												
.100 ~ 100.0	.6	1%	RW0S6BB(Code)FETCT-ND▼	1.15	.92	.74	RW0S6BB(Code)FETTR-ND	—	—	—	—	863.00/M
.010 ~ .050	1	1%	RW1S0BA(Code)FE-ND	2.66	2.21	1.89	RW1S0BA(Code)FETR-ND	—	—	—	1760.00/M	—
.100	1	1%	RW1S0BAR100FE-ND	3.39	2.82	2.40	RW1S0BAR100FETR-ND	—	—	—	2250.00/M	—
.005 ~ .050	1	5%	RW1S0BA(Code)JE-ND	2.28	1.89	1.61	RW1S0BA(Code)JETR-ND	—	—	—	1500.00/M	—
.075 ~ 1.00	1	5%	RW1S0BA(Code)JE-ND	2.61	2.17	1.85	RW1S0BA(Code)JETR-ND	—	—	—	1730.00/M	—
.005 ~ .040	1.5	5%	RW1S5CA(Code)JE-ND	1.91	1.58	1.35	RW1S5CA(Code)JETR-ND	—	—	1260.00/M	—	—
.080 ~ .500	1.5	5%	RW1S5CA(Code)JE-ND	2.50	2.08	1.76	RW1S5CA(Code)JETR-ND	—	—	1660.00/M	—	—
.050	2	1%	RW2R0DAR050FE-ND	2.24	1.87	1.58	RW2R0DAR050FETR-ND	—	1490.00	—	—	—
.010 ~ .050	2	5%	RW2R0DA(Code)JE-ND	1.96	1.63	1.39	RW2R0DA(Code)JETR-ND	—	1300.00	—	—	—
.100 ~ 1.00	2	5%	RW2R0DA(Code)JE-ND	2.35	1.96	1.66	RW2R0DA(Code)JETR-ND	—	1560.00	—	—	—
.005 ~ .050	2	5%	RW2S0CB(Code)JE-ND	1.89	1.57	1.34	RW2S0CB(Code)JETR-ND	—	1250.00	—	—	—
.150 ~ 1.00	2	5%	RW2S0CB(Code)JE-ND	2.39	1.99	1.69	RW2S0CB(Code)JETR-ND	—	1590.00	—	—	—
1.0 ~ 150.0	2	5%	RW2S0DA(Code)JE-ND	2.66	2.05	1.74	RW2S0DA(Code)JETR-ND	—	1640.00	—	—	—
.005 ~ .050	3	5%	RW3R0DB(Code)JE-ND	2.26	1.88	1.59	RW3R0DB(Code)JETR-ND	—	1490.00	—	—	—
.050 ~ 150.0	3	5%	RW3R0DB(Code)JE-ND	2.26	1.88	1.59	RW3R0DB(Code)JETR-ND	—	1610.00	—	—	—
.010	3.5	5%	RW3R5EAR010JE-ND	2.39	1.99	1.69	RW3R5EA(Code)JETR-ND	1192.50	—	—	—	—
.100 ~ 1.00	3.5	5%	RW3R5EA(Code)JE-ND	2.55	2.13	1.82	RW3R5EA(Code)JETR-ND	1275.00	—	—	—	—

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant ▼ Cut Tape

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OHMITE RC Series — SMD Carbon Composition Power Resistors – .25, .50 and 1 Watt

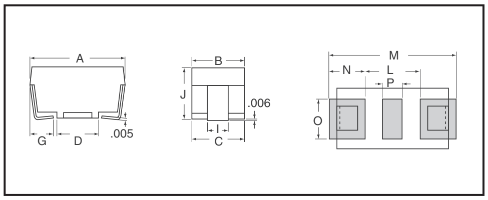

Electrical Specifications

	RC0R5DB	RC1R0EA
Power at 25°C Ambient Maximum Voltage	.50 Watt 350	1 Watt 500
Temperature Coefficient	RC0R5DB: ±400 ppm/°C RC1R0EA: -1300(±300) ppm/°C	
Dielectric Withstanding Voltage	1000V	

RESISTANCE VALUE CHART

RC0R5DB Value (Code)	RC1R0EA Value (Code)
2.7 (2R70)	3.3 (3R30)
75 (75R0)	4.7 (4R70)
360 (360R)	10 (10R0)
560 (560R)	22 (22R0)
1.0K (1K00)	33 (33R0)
	47 (47R0)
	68 (68R0)◊
	100 (100R)

Series	Maximum Dimensions - mm A	B	C	D	G	I	J	L	M	N	O	P
RC0R5DB	15.875	6.934	6.807 Ref.	10.592	1.575	3.632	5.740	12.04	18.85	3.40	3.94	2.36
RC1R0EA	20.599	6.934	6.807 Ref.	14.529	2.362	3.632	6.934	15.52	25.4	4.95	3.94	2.36

Resistance Range (Ω)	Wattage	Tolerance	Type	Digi-Key Part No.*	Bulk Price Each 1	100	500	Digi-Key Part No.*	Tape and Reel Pricing 750	1,000
75 - 1.0K	.50	±5%	Carbon Comp	—	—	—	—	RC0R5DB(Code)JTR-ND	—	1080.00
10 - 68	1	±10%	Ceramic Comp	RC1R0EA(Code)KBK-ND	1.62	1.33	—	RC1R0EA10R0KTR-ND	918.75	—
				RoHS Compliant						
360 - 1.0K	.50	±5%	Carbon Comp	RC0R5DB(Code)JE-ND	1.76	1.48	1.27	RC0R5DB(Code)JETR-ND	—	1140.00
3.3 - 100	1	±10%	Ceramic Comp	RC1R0EA(Code)KE-ND	2.00	1.68	1.44	RC1R0EA(Code)KETR-ND	1500.00	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Macrochip SMD Precision Thick Film Resistors

RoHS COMPLIANT

MacroChip resistors bring precision high voltage capabilities to the surface mount level. Designed with thick film on Alumina substrate technology. The planar package design is low profile for easy use with instrumentation, medical equipment, voltage regulators, and power supplies.

Features:
- Non-inductive design • Low voltage coefficient • Surface mount • Pd Ag terminations

Material:
- Resistor: Thick film on Alumina substrate

Electrical:
- Power at 25°C Ambient: 1.5W • Voltage Rating: 5.0KV • Operating Temperature: -55°C ~ 180°C

RESISTANCE VALUE CHART

Value	Value	Value
10K	500K	10M
17.5K	1M	25M
100K	2.5M	50M
250K	5M	

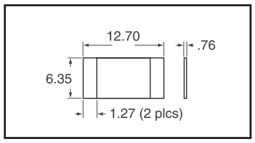

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.*	Price Each 1	10	50	100	200
10K - 50M	1.5	5%	MC102JE-(Value)-ND	4.99	3.33	2.66	2.00	1.67

*For complete part number, substitute Digi-Key value from Resistance Value Chart for (Value).

60S Series — Surface Mount Metal Plate Current Sense Resistors

602SJ and 605SJ

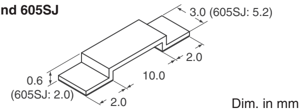

610SJ

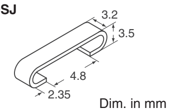

RESISTANCE VALUE CHART

602SJ — .25 Watt Value (Code)	605SJ — .5 Watt Value (Code)	610SJ — 1 Watt Value (Code)
.003 (R00300)	.002 (R00200)	.002 (R00200)
.005 (R00500)	.00375 (R00375)	.003 (R00300)
	.008 (R00800)	

Specifications: • Tolerance: ±5% • TCR (ppm/°C): 602SJ and 605SJ: ±100; 610SJ: ±350 • Rated Ambient Temperature: 602SJ and 605SJ: 70°C; 610SJ: 85°C • Operating Temperature Range: -40°C ~ 155°C

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.*	Bulk Price Each 1	10	100	Digi-Key Part No.*	Tape and Reel Qty.	Pricing
.003 ~ .005	0.25@25°C	—	—	—	—	602SJ(Code)TR-ND	2,000	540.00/M
.002 ~ .008	0.5@25°C	—	—	—	—	605SJ(Code)TR-ND	2,000	540.00/M
			RoHS Compliant					
.003 ~ .005	0.25@25°C	602SJ(Code)E-ND	1.18	1.04	.89	602SJ(Code)ETR-ND	2,000	710.00/M
.002 ~ .008	0.5@25°C	605SJ(Code)E-ND	1.18	1.04	.89	605SJ(Code)ETR-ND	2,000	710.00/M
.002 ~ .003	1@70°C	610SJ(Code)E-ND	1.18	1.04	.89	610SJ(Code)ETR-ND	1,500	710.00/M

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

CS3 Series — Precision Current Sense Resistors

The resistor family line CS3 utilizes state-of-the-art technology to provide a highly reliable resistor with a non-inductive design. This makes the CS3 resistor ideal for many current monitoring and controls applications. **Features:** • Values beginning at 1mΩ • Non Inductive Design • Four terminal Kelvin connection • 100% QC measurement **Specifications: Material:** • Terminal Material: Kelvin Terminals; silver plated and tinned • Encapsulation: Polyester over resistance element **Electrical:** • Resistance Tolerances: 1% • Temperature Coefficient: TC referenced to 25°C, ΔR taken at 15°C and 105°C, 60ppm/°C • Power Rating: 3W at 70°C maximum 40Amp permanent

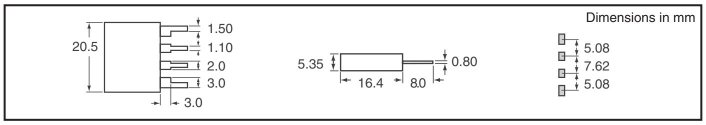

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.001 (R001)	.005 (R005)	.030 (R030)
.002 (R002)	.010 (R010)	.036 (R036)◊
.003 (R003)	.020 (R020)	.050 (R050)

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	10	50
.036	3	CS3FR036-ND	7.43	6.98	6.53
		RoHS Compliant			
.001 ~ .050	3	CS3F(Code)E-ND	13.39	11.90	10.42

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant.

RW Series — Four-Terminal Current Sense Resistors – 1 Watt

RoHS COMPLIANT

Features: • Extremely low resistance and high precision tolerance • Low TCR achieved (±50ppm/°C) • Flameproof UL94-V-0 • Marking: Black body color with white marking
Specifications: • Dielectric Withholding Voltage: 500V • TCR (maximum): ±50ppm/°C • Rated Ambient Temperature: 70°C • Operating Temperature Range: -55°C ~ 125°C

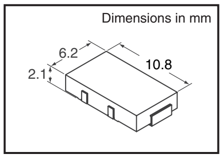

RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.005 (R005)	.025 (R025)
.010 (R010)	.050 (R050)

Resistance Range (Ω)	Tolerance	Digi-Key Part No.*	Bulk Price Each 1	10	100	Digi-Key Part No.*	Tape and Reel Pricing 1,000
.005 ~ .050	±0.5%	RW1S0CK(Code)DE-ND	6.64	4.04	3.69	RW1S0CK(Code)DETR-ND	3410.00
.005 ~ .050	±1%	RW1S0CK(Code)FE-ND	6.23	3.76	3.61	RW1S0CK(Code)FETR-ND	3230.00

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE Four Terminal High Precision Current Sense Resistors

Current Sense Resistors enable the measurement of current flow in a circuit by monitoring a voltage drop across a precisely calibrated resistance. The LVK chip features four terminals, also know as a "Kelvin" configuration. This configuration enables current to be applied through two opposite terminals and a sensing voltage to be measured across the other two terminals, eliminating the resistance and temperature coefficient of the terminals for a more accurate current measurement. Isolating the voltage and current terminals (see schematic) facilitates a very accurate current measurement. Ohmite's proprietary technology offers an excellent Temperature Coefficient of Resistance (TCR) even for very low resistance values. The resistive element consists of a durable, anti-corrosive reliable performance with the ability to withstand harsh environments.

FEATURES: • Working Temperature Range: -55°C ~ 200°C

SPECIFICATIONS: • Operating Temperature Range: -40°C ~ 125°C

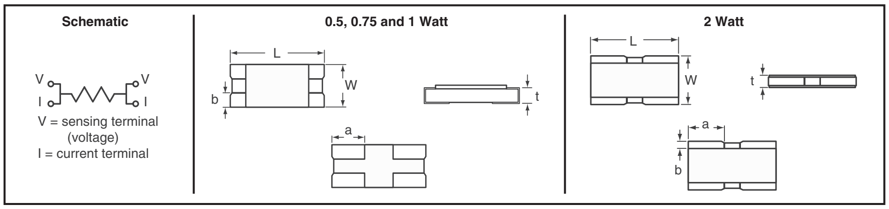

Series	Package Size	Power Rating (@70°C)	Resistance Range (Ω)	Temperature Coefficient (ppm/°C)	Dimensions – mm				
					L	W	t	a	b
LVK12	1206	0.5W	.01 ~ .05	50	3.2 ±0.2	1.6 ±0.2	0.5 ±0.15	1.0 ±0.2	0.55 ±0.2
LVK20	2010	0.75W	.01 ~ .05	50	5.0 ±0.2	2.5 ±0.2	0.5 ±0.15	1.7 ±0.2	0.9 ±0.2
LVK24	2412	1.0W	.01 ~ .05	50	6.4 ±0.2	3.2 ±0.2	0.5 ±0.15	2.1 ±0.2	1.2 ±0.2
LVK25	1224	2.0W	.001	300	3.2 ±0.2	6.4 ±0.2	0.5 ±0.2	0.4 ±0.2	2.7 ±0.2
	1224	2.0W	.002 ~ .004	200	3.2 ±0.2	6.4 ±0.2	0.5 ±0.2	0.4 ±0.2	2.7 ±0.2
	1224	2.0W	.005 ~ .01	100	3.2 ±0.2	6.4 ±0.2	0.5 ±0.2	0.4 ±0.2	2.7 ±0.2

LVK12( )DER .5%
Resistance Value Chart

Value (Code)
.01 (R010)
.02 (R020)
.03 (R030)
.05 (R050)

LVK12( )FER 1%
Resistance Value Chart

Value (Code)	Value (Code)
.01 (R010)	.03 (R030)
.012 (R012)	.047 (R047)
.02 (R020)	.05 (R050)
.024 (R024)	

LVK20( )DER .5%
Resistance Value Chart

Value (Code)
.01 (R010)
.02 (R020)
.05 (R050)

LVK20( )FER 1%
Resistance Value Chart

Value (Code)	Value (Code)
.01 (R010)	.03 (R030)
.015 (R015)	.039 (R039)
.02 (R020)	.05 (R050)
.027 (R027)	

LVK24( )DER .5%
Resistance Value Chart

Value (Code)
.01 (R010)
.02 (R020)
.03 (R030)
.05 (R050)

LVK24( )FER 1%
Resistance Value Chart

Value (Code)	Value (Code)
.01 (R010)	.039 (R039)
.012 (R012)	.05 (R050)
.015 (R015)	
.02 (R020)	

LVK25( )FER 1%
Resistance Value Chart

Value (Code)
.001 (R001)
.002 (R002)
.003 (R003)
.005 (R005)
.01 (R010)

Series	Tolerance	Resistance Range (Ω)	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Ohmite Part No.†
				1	50	100			
LVK12	.5%	.01 ~ .05	LVK12(Code)DERCT-ND	.50	.45	.40	LVK12(Code)DERTR-ND	300.00	LVK12(Code)DER
	1%	.01 ~ .05	LVK12(Code)FERCT-ND	.45	.41	.36	LVK12(Code)FERTR-ND	270.00	LVK12(Code)FER
LVK20	.5%	.01 ~ .05	LVK20(Code)DERCT-ND	.83	.75	.66	LVK20(Code)DERTR-ND	500.00	LVK20(Code)DER
	1%	.01 ~ .05	LVK20(Code)FERCT-ND	.73	.66	.58	LVK20(Code)FERTR-ND	450.00	LVK20(Code)FER
LVK24	.5%	.01 ~ .05	LVK24(Code)DERCT-ND	1.23	1.11	.98	LVK24(Code)DERTR-ND	760.00	LVK24(Code)DER
	1%	.01 ~ .05	LVK24(Code)FERCT-ND	1.03	.93	.82	LVK24(Code)FERTR-ND	630.00	LVK24(Code)FER
LVK25	1%	.001 ~ .01	LVK25(Code)FERCT-ND	1.48	1.33	1.18	LVK25(Code)FERTR-ND	890.00	LVK25(Code)FER

† For complete part number, substitute the code from Resistance Value Charts for (Code).

FCSL Series – Metal Foil Current Sense

FCS incorporates proven metal foil technology to produce the ultimate in a current sense resistor. FCS features the effective combination of very low and stable TCRs (Temp. Coefficient of Resistance) available in a wide selection of very low ohmic values. Power ratings up to 4W make FCS the ideal choice for current sensing applications. **Features:** • Foil Construction ensures stable TCR • Designed for automatic insertion • Industry standard sizes • High heat resistant use • Low heat electromotive use • Max. Temp. for Rated Power: 70°C • Operating Temp. Range: -55°C ~ 155°C • Rated Voltage: $\sqrt{\text{(Rated power x Resistance value)}}$V • Rush Current: Rated current 10 msec. ON, 60 sec OFF, 10 cycles, Max. ΔR: ±(1.0% +0.0005Ω)

Series	Resistance Range (Ω)	Dim. – mm (±0.20)		
		L	W	a
FCSL64	.0010	3.1	6.3	1.2
	.0020 ~ .0500	3.1	6.3	0.5
FCSL76	.0010	3.8	7.6	1.35
	.0020 ~ .0500	3.8	7.6	0.6
FCSL90	.0010	4.5	8.9	1.6
	.0020 ~ .0500	4.5	8.9	0.7

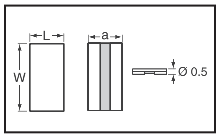

FCSL64, FCSL76 and FCSL90 Series
Resistance Value Chart

Value (Code)	Value (Code)
.0010 **(R001)**	.0100 **(R010)**
.0020 **(R002)**	.0250 **(R025)**
.0050 **(R005)**	.0500 **(R050)**

Series	Power Rating	Rush Power (10 msec.)	Max. Current (A)	Toler-ance (%)	Temperature Coefficient (ppm/°C)	Resistance Range (Ω)	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Ohmite Part No.†
								1	50	100			
FCSL64	2W	225W	150	±5	150	.0010	FCSL64R001JERCT-ND	.75	.68	.60	FCSL64R001JERTR-ND	430.00	FCSL64R001JER
	2W	225W	150	±2	100	.0020	FCSL64R002GERCT-ND	.75	.68	.60	FCSL64R002GERTR-ND	430.00	FCSL64R002GER
	2W	225W	150	±1	50	.0050 ~ .0500	FCSL64(Code)FERCT-ND	.75	.68	.60	FCSL64(Code)FERTR-ND	430.00	FCSL64(Code)FER
FCSL76	3W	325W	180	±5	150	.0010	FCSL76R001JERCT-ND	.95	.86	.76	FCSL76R001JERTR-ND	540.00	FCSL76R001JER
	3W	325W	180	±2	100	.0020	FCSL76R002GERCT-ND	.95	.86	.76	FCSL76R002GERTR-ND	540.00	FCSL76R002GER
	3W	325W	180	±1	50	.0050 ~ .0500	FCSL76(Code)FERCT-ND	.95	.86	.76	FCSL76(Code)FERTR-ND	540.00	FCSL76(Code)FER
FCSL90	4W	440W	210	±5	150	.0010	FCSL90R001JERCT-ND	1.20	1.08	.96	FCSL90R001JERTR-ND	680.00	FCSL90R001JER
	4W	440W	210	±2	100	.0020	FCSL90R002GERCT-ND	1.20	1.08	.96	FCSL90R002GERTR-ND	680.00	FCSL90R002GE
	4W	440W	210	±1	50	.0050 ~ .0500	FCSL90(Code)FERCT-ND	1.20	1.08	.96	FCSL90(Code)FERTR-ND	680.00	FCSL90(Code)FER

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

MCS Series – Metal Element Current Sense

1 and 2 Watt

Features: • Flame-retardant epoxy protective coat (UL94-V0) • Long side electrode to satisfy the most demanding current-sense applications • Precision resistance alloy (NiCr20AlSi or CuMnNi) • Low inductance, low thermo EMF (<50µV/°C) • 1% Tolerance

Series	Dimensions – mm (±0.02)						
	L	W	a	N	L_2	O	Solder Thickness (µm/w)
MCS1632	3.20	1.60	0.50	1.50	1.00	2.00	105/1.0
MCS3264	6.40	3.20	1.00	2.00	4.20	3.80	105/2.0

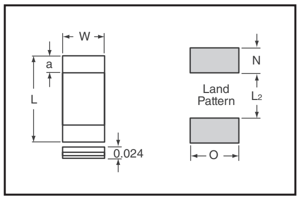

MCS1632 and MCS3264 Series
Resistance Value Chart

Value (Code)	Value (Code)
.005 **(R005)**	.025 **(R025)**
.010 **(R010)**	.030 **(R030)**
.015 **(R015)**	.050 **(R050)**
.020 **(R020)**	

Series	Power Rating (@70°C)	Resistance TCR (ppm/°C)			Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel		Ohmite Part No.†
		.005Ω	.010Ω	.015Ω ~ .050Ω		1	50	100		Qty.	Pricing	
MCS1632	1W	<200	<70	<40	MCS1632(Code)FERCT-ND	.35	15.75	28.00	MCS1632(Code)FERTR-ND	5000	200.00/M	MCS1632(Code)FER
MCS3264	2W	<200	<70	<40	MCS3264(Code)FERCT-ND	.40	18.00	32.00	MCS3264(Code)FERTR-ND	4000	263.00/M	MCS3264(Code)FER

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

14A Series – Alumina Body Current Sense

14AFR current sense resistors feature a high temperature ceramic body which affords the user higher power densities than similar products which utilize silicone based epoxy molding compounds. The internal construction involves a straight, low inductance, 3-piece welded metal element at 1% tolerance.

Power Rating (@70°C)	Digi-Key Part No.†	Price Each			Ohmite Part No.†
		1	10	100	
4W	14AF(Code)E-ND	1.98	1.32	1.00	14AF(Code)E

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

Resistance Value Chart

Value (Code)	Value (Code)
.004 **(R004)**	.022 **(R022)**
.005 **(R005)**	.033 **(R033)**
.008 **(R008)**	.047 **(R047)**
.010 **(R010)**	.051 **(R051)**
.015 **(R015)**	

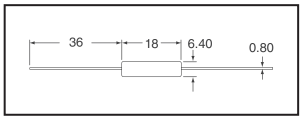

10 Series – Molded Silicone Axial Terminal Wire Element Current Sense Resistors

Fig. 1

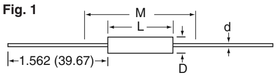

Fig. 2

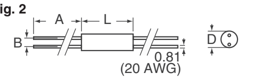

Series	Maximum Dimensions – mm					
	A	B	D	L	d	M
12F	—	—	2.39	10.57	.81	29.36
13F	—	—	5.21	14.48	.81	33.27
15F	—	—	8.38	23.75	1.02	42.55
13FP	31.75	3.18	5.08	15.88	—	—
14FP	38.1	5.08	8.51	26.92	—	—
17FP	38.1	5.08	9.53	38.1	—	—

Resistance Value Chart

12F Series	13F Series	15F Series		13FP, 14FP, 17FP
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.005 (R005)	.005 (R005)	.005 (R005)	.150 (R150)	.005 (R005)
.010 (R010)	.010 (R010)	.010 (R010)	.200 (R200)	.010 (R010)
.015 (R015)	.015 (R015)	.015 (R015)	.250 (R250)	.015 (R015)
.020 (R020)	.020 (R020)	.020 (R020)		.020 (R020)
.025 (R025)	.025 (R025)	.025 (R025)		.025 (R025)
.030 (R030)	.030 (R030)	.030 (R030)		.050 (R050)
.040 (R040)	.040 (R040)	.040 (R040)		.060 (R060)
.050 (R050)	.050 (R050)	.050 (R050)		.090 (R090)
.070 (R070)	.070 (R070)	.070 (R070)		.100 (R100)
	.100 (R100)	.100 (R100)		
	.150 (R150)			
	.200 (R200)			

12F, 13F, 15F Series: Electrical Specifications: • Resistance Tolerance: ±1% (F Type) • Power Rating: Based on 25°C free air rating • Overload: 5x rated power for 5 seconds • Dielectric Withstanding Voltage: 2 Watt: 500VRMS, 3 and 5 Watt: 1000VRMS • Insulation Resistance: Not less than 1000MΩ • Temperature Range: -55°C ~ 275°C **13FP, 14FP, 17FP Series: Electrical Specifications:** • Resistance Tolerance: ±1% (F Type) • Temperature Coefficient of Resistance: 0°C ~ 85°C: ≥0.015Ω: ±50PPM/°C <0.015Ω: ±100PPM/°C • Power Rating: Based on 25°C free air rating • Overload: 5x rated power for 5 seconds • Dielectric Withstanding Voltage: 3 Watt: 1000VAC, 4.5 and 7 Watt: 1500VAC • Insulation Resistance: Not less than 1000MΩ • Thermal EMF: Less than ±2μV/°C • Temperature Range: -55°C ~ 200°C

Fig.	Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	100	250	Ohmite Part No.†
1	.005 ~ .020	2	12F(Code)E-ND	1.73	1.55	1.38	1.30	12F(Code)E
	.025 ~ .040	2	12F(Code)E-ND	1.72	1.54	1.37	1.29	12F(Code)E
	.050	2	12F(Code)E-ND	1.61	1.46	1.30	1.22	12F(Code)E
	.070	2	12F(Code)E-ND	1.73	1.55	1.39	1.30	12F(Code)E
	.005	3	13F(Code)E-ND	1.72	1.55	1.38	1.29	13F(Code)E
	.010 ~ .015	3	13F(Code)E-ND	1.62	1.46	1.31	1.23	13F(Code)E
	.020 ~ .030	3	13F(Code)E-ND	1.56	1.40	1.24	1.16	13F(Code)E
	.040 ~ .050	3	13F(Code)E-ND	1.53	1.37	1.22	1.15	13F(Code)E
	.070 ~ .200	3	13F(Code)E-ND	1.72	1.55	1.38	1.29	13F(Code)E
	.005	5	15F(Code)E-ND	2.05	1.85	1.64	1.54	15F(Code)E
	.010 ~ .030	5	15F(Code)E-ND	1.97	1.78	1.58	1.48	15F(Code)E
	.040 ~ .050	5	15F(Code)E-ND	1.93	1.75	1.55	1.45	15F(Code)E
	.070 ~ .250	5	15F(Code)E-ND	1.90	1.72	1.53	1.43	15F(Code)E
2	.005 ~ .100	3	13FP(Code)E-ND	5.58	4.19	3.02	2.79	13FP(Code)E
	.005 ~ .100	4.5	14FP(Code)E-ND	6.54	4.91	3.54	3.27	14FP(Code)E
	.005 ~ .100	7	17FP(Code)E-ND	7.56	5.67	4.09	3.66	17FP(Code)E

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

60 Series – Metal Element Current Sensing Resistors

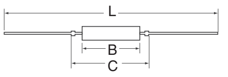

These non-inductive, 3-piece welded element resistors offer a reliable low-cost alternative to conventional resistors.

Features: • Low inductance • Low cost • Wirewound performance • Flameproof

Material: • Resistor: Nichrome Resistive element • Terminals: Copper clad steel or copper depending on style

Derating: • Linearly from 100% @ 25°C ~ 0% @ 275°C

Electrical: • Power rating: Based on 25°C ambient • Overload: 5x rated power for 5 seconds • Inductance: <10nh • To calculate maximum amps use the formula $\sqrt{P/R}$

Part Number	Dimensions – Inches L	B max.	C	Lead Ga.
604HR010	3.530	.250	.559	22
604HR020	3.530	.250	.559	22
604HR025	3.530	.250	.559	22
605HR010	3.685	.355	1.310	20
605HR020	3.685	.330	1.310	20
605HR030	3.685	.330	1.310	20
605HR100	3.981	.750	1.675	18
607HR050	3.587	.630	1.106	20
607HR005	3.674	.320	1.310	20
610HR005	3.587	.650	1.125	20
610HR010	3.587	.630	1.106	20
610HR020	3.587	.630	1.106	20
610HR050	3.981	.750	1.675	18
615HR010	3.981	.750	1.675	18
615HR030	3.981	.750	1.675	18
620HR005	3.981	.750	1.675	18
630HR010	4.125	.781	1.68	18
630HR025	4.125	1.279	2.125	18
630HR050	4.125	1.664	2.375	18

RESISTANCE VALUE CHART

604HR Value (Code)	605HR Value (Code)	607HR Value (Code)	610HR Value (Code)	615HR Value (Code)	620HR Value (Code)	630HR Value (Code)
.010 (010)	.010 (010)	.005 (005)	.005 (005)	.010 (010)	.005 (005)	.010 (010)
.020 (020)	.030 (030)	.050 (050)	.010 (010)	.030 (030)		.025 (025)
.025 (025)	.100 (100)		.020 (020)			.050 (050)
			.050 (050)			

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.†	Price Each 1	100	1,000	Ohmite Part No.†
.010 ~ .025	±3%	.375	604HR(Code)E-ND	.52	.45	.36	604HR(Code)E
.010 ~ .100	±3%	.50	605HR(Code)E-ND	.52	.45	.36	605HR(Code)E
.005 ~ .050	±3%	.75	607HR(Code)E-ND	.52	.45	.36	607HR(Code)E
.005 ~ .050	±3%	1	610HR(Code)E-ND	.52	.45	.36	610HR(Code)E
.010 ~ .030	±3%	1.5	615HR(Code)E-ND	.52	.45	.36	610HR(Code)E
.005	±3%	2	620HR005E-ND	.52	.45	.36	620HR005E
.010 ~ .050	±3%	3	630HR(Code)E-ND	.52	.45	.36	630HR(Code)E

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

WL Series – Miniature Wirewound Current Sense Resistors

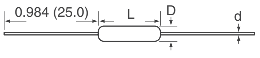

Type	Dimensions – Inch (mm) L	D	d
WLA	.200 (5.08)	.10 (2.54)	.024 (.60)
WLB	.276 (7.00)	.12 (3.00)	.024 (.60)
WLC	.450 (11.4)	.27 (6.86)	.031 (.80)

RESISTANCE VALUE CHART

WLA Value (Code)	WLB Value (Code)	WLC Value (Code)
.005 (R005)	.005 (R005)	.030 (R030)
.015 (R015)	.010 (R010)	
.020 (R020)	.015 (R015)	
.025 (R025)	.020 (R020)	
.030 (R030)	.030 (R030)	
.050 (R050)	.100 (R100)	
.100 (R100)		

Features: • Ultra-low ohmic value series for current sensing applications • Very low inductive value (<1nH at 1MHz test) to meet the most stringent electronic industry requirements

Specifications: Material: • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Leads: Copper wire, 100% Sn (lead free) coated • CN49W alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation

Electrical: Tolerance: ±1.0%

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Ohmite Part No.†
.005 ~ .100	0.5	WLA(Code)FECT-ND	.85	.77	.68	WLA(Code)FET
.005 ~ .100	1.0	WLB(Code)FECT-ND	.85	.77	.68	WLB(Code)FET
.030	2.0	WLCR030FECT-ND	.85	.77	.68	WLC(Code)FET

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

Maxi-Mox Series – Precision Thick Film Resistors

Applications: • HV power supplies • Power distribution • Medical instrumentation • Avionics Material: • Core: Alumina • Resistor: Thick Film Electrical: • Operating Temperature: -55°C ~ 220°C

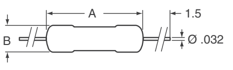

Series	Max. Dimensions – Inch (mm) A	B
MOX1	1.12 (28.45)	0.31 (7.87)
MOX2	2.12 (53.85)	0.31 (7.87)

RESISTANCE VALUE CHART

Value (Code)
10M (1005)
100M (1006)
1000M (1007)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Ohmite Part No.†
10M ~ 100M	±1%	2.5	MOX1FE-(Value)-ND	10.46	5.31	4.77	3.82	MOX-1-12(Code)FE
1000M	±5%	2.5	MOX1JE-1000M-ND	9.45	4.80	4.30	3.45	MOX-1-121007JE
10M ~ 1000M	±1%	5	MOX2FE-(Value)-ND	14.33	7.29	6.56	5.25	MOX-2-12(Code)FE
10M ~ 1000M	±5%	5	MOX2JE-(Value)-ND	13.65	6.94	6.25	5.00	MOX-2-12(Code)JE

† For complete part number, substitute the corresponding Value from the Resistance Value Chart.

60 Series – Four Terminal Current Sensing Shunt Resistors

Dimensions in mm

610FP

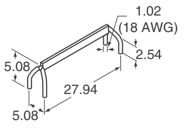

650FP

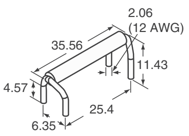

Specifications: • TCR @ 0°C ~ 85°C: >0.015Ω: ±50PPM/°C; <0.015Ω: ±100PPM/°C • Power Rating: Based on 25°C free air rating • Overload: 5x rated wattage for 5 seconds

Derating: Linearly from 100% @ +25°C ~ 0% @ 275°C • Operating Temperature Range: -55°C ~ 275°C

RESISTANCE VALUE CHART — 650FP

Value (Code)
.002 (R002)
.005 (R005)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.†	Price Each 1	10	100	Ohmite Part No.†
.050	±1%	1	610FPR050E-ND	8.40	6.30	4.55	610FPR050E
.002 ~ .005	±1%	5	650FP(Code)E-ND	10.32	7.74	5.58	650FP(Code)E

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

High Voltage Flip Chip Film Resistors

High Voltage Flip Chip Series incorporates high accuracy screen printing technology to achieve high voltage capability in a stable flip chip SMD chip resistor package. The HVF Series offers unmatched performance in comparison to standard chip resistors. Its unique design provides lower voltage and temperature coefficients, less noise, tighter tolerances, better stability, higher resistance values and high voltage ratings. HVF is available in convenient 1206 and 2512 footprints.

Features: • Working Temperature Range: -55°C ~ 200°C
Specifications: • Temperature Coefficient: ±100ppm standard
Performance Data: • Overload: 1,5 x Pnom, 5 seconds (do not exceed maximum voltage) • Load Life: 1000 hours at rated power (IEC 115-1)

HVF1206T( )FE — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
25K (2502)	250K (2503)	1.5M (1504)	5M (5004)	10G (1008)
50K (5002)	500K (5003)	2M (2004)	7.5M (7504)	
100K (1003)	1.0M (1004)	2.5M (2504)	1.0G (1007)	

HVF2512T( )FE — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
25K (2502)	250K (2503)	1.5M (1504)	5M (5004)	5G (5007)
50K (5002)	500K (5003)	2M (2004)	7.5M (7504)	
100K (1003)	1.0M (1004)	2.5M (2504)	1.0G (1007)	

Series	Package Size	Power Rating (mW)	Voltage Rating	Dimensions (inch ±0.008)			
				L	W	a	T (max.)
HVF1206	1206	300	1,500	0.128	0.063	0.018	0.028
HVF2512	2512	1,000	3,000	0.252	0.126	0.026	0.032

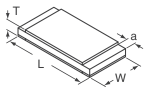

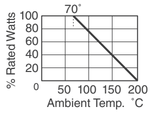

Series	Package Size	Resistance Range (Ω)	Tolerance	Digi-Key Part No.†	Bulk Price Each 1	50	100	Ohmite Part No.†
HVF1206	1206	25K ~ 10G	1%	HVF1206T(Code)FEBK-ND	3.58	3.22	2.86	HVF1206T(Code)FE
HVF2512	2512	25K ~ 5G	1%	HVF2512T(Code)FEBK-ND	3.68	3.31	2.94	HVF2512T(Code)FE

† For complete part number, substitute the code from Resistance Value Charts for (Code).

TL88 Series – Heat Sinkable Thick Film Power Resistors

The TL88 Series add heat sinkable options to the thick film resistor family. The resistor element is packaged with plastic insulators and quick-connect terminals in a symmetrical aluminum profile for easy heat sink mounting. Self-insulating package design increases voltage withstanding characteristics when compared to traditional aluminum housings. The in-line mounting profile makes the TL88 Series easily adaptable to most heat sink systems. Thermal compound is always recommended when heat sinking.

Features: • Very low inductance • In-Line Mounting Profile • 1/4" Quick connect terminals • Low profile design

Applications: • Semiconductor Balancing • Frequency Converters • In-Rush Current Limiter • Snubber • Bleeder Resistor • Power Switching • Voltage Dividers

Material Specifications: • Resistive Element: Thick film on alumina • Housing: Aluminum • Insulators: Glass reinforced high temperature Valox® • Terminals: Tinned brass

Electrical Specifications: • Tolerance: ± 10% Standard • Temperature Coefficient: ±250PPM • Working Voltage: 1200VAC • Temperature Limits: -40°C ~ 125°C • Air Distance, Terminal to Ground: 7mm • Maximum Voltage Between Terminal: 2500V • Inductance: 50-100nH

RESISTANCE VALUE CHART

Value (Code)	Value (Code)
5 (5R00)	47 (47R0)
10 (10R0)	50 (50R0)
15 (15R0)	100 (100R)

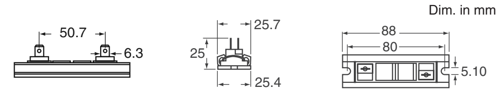

Resistance Range (Ω)	Wattage§	Digi-Key Part No.†	Price Each 1	10	50	100
15	114	TL88K(Code)-ND	25.16	23.64	22.12	20.59
RoHS Compliant						
5 ~ 100	114	TL88K(Code)E-ND	55.90	33.54	22.36	16.77

§ Standard wattage for properly heat sinked resistors.
† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TGH Series Resistors – 100, 120 and 200 Watt

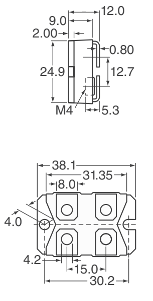

100W – RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.0005 (R0005)	.005 (R0050)	.02 (R0200)	.075 (R0750)
.001 (R0010)	.01 (R0100)	.025 (R0250)	.1 (R1000)
.002 (R0020)	.015 (R0150)	.05 (R0500)	

120W – RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	33 (33R0)	500 (500R)	10.0K (10K0)
1.0 (1R00)	50 (50R0)	680 (680R)	
5.0 (5R00)	100 (100R)	1.0K (1K00)	
10 (10R0)	150 (150R)	5.0K (5K00)	

200W – RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	25 (25R0)	500 (500R)	10.0K (10K0)
.50 (R500)	33 (33R0)	680 (680R)	
1.0 (1R00)	100 (100R)	1.0K (1K00)	
10 (10R0)	150 (150R)	5.0K (5K00)	

Due to a non-inductive design, these resistors are ideally suited for high frequency and pulse load applications. By direct mounting on a heat sink, significant cost advantages can be realized.

Material Specifications: • Heat Sink: Nickel-plated Copper • Contacts: Nickel-plated Copper • Molding Compound: High performance epoxy compliant to UL 94V-0

Electrical Specifications: • Tolerance: 5% • Temperature Coefficient: ±250 (at 105°C ref. to 25°C) • Maximum Working Voltage: 500V • Working Temperature Range: -55°C ~155°C

Wattage	Resistance Range (Ω)	Digi-Key Part No.†	Price Each 1	10	20	100
Precision Current Sense Resistors						
100	.0005 ~ .02	TGHGC(Code)FE-ND	27.21	24.74	22.49	21.23
	.025 ~ .1	TGHGC(Code)FE-ND	36.90	33.55	30.50	28.73
Thick Film Power Resistors						
120	.10 ~ 1.0	TGHHV(Code)JE-ND	43.09	39.18	35.62	33.27
	5.0	TGHHV5R00JE-ND	38.88	35.36	32.13	30.01
	10 ~ 10K	TGHHV(Code)JE-ND	37.78	34.35	31.22	29.15
200	.10 ~ 1.0	TGHLV(Code)JE-ND	53.51	48.64	44.23	41.29
	10 ~ 10K	TGHLV(Code)JE-ND	46.58	42.36	38.49	35.94

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TAP600 Heat Sinkable Planar Resistors – 600 Watt

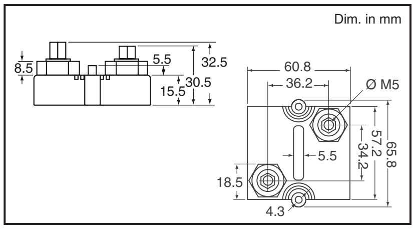

TAP600 delivers 600 watts of reliable power to a variety of power conditioning, power transmission, and power control applications.

Features: • Dielectric Strength: Up to 12KV • Special Design for Low Inductive and Capacitance Values • Easy termination to contacts with M5 screws • Calibrated Mounting simplifies assembly **Electrical Specifications:** • Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 5000VDC • Power Rating: 600W at 70°C heat sink temperature • Temperature Coefficient: ±150ppm/°C • Operating Temperature Range: -55°C ~ 150°C • Electric Strength Voltage: Up to 12000Vrms, 50HZ, 1 minute @ 500V • Insulation Resistance: 10GΩ minimum at 500V • Air Distance: 14mm minimum • Inductance: ≤ 80nH

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	5.0 (5R0)	50 (50R)	10000 (10K)
2.0 (2R0)	10 (10R)	75 (75R)	
3.0 (3R0)	22 (22R)	100 (100)	
4.0 (4R0)	30 (30R)	1000 (1K0)	

Resistance Range (Ω)	Digi-Key Part No.†	Price Each 1	10	25	50
1.0 ~ 10,000	TAP600K(Code)E-ND	125.29	97.49	89.37	75.84

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TAP800 Heat Sinkable Planar Resistors – 800 Watt

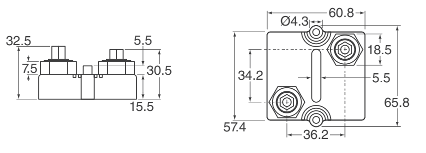

Ohmite's TAP800 Series dissipates 800 watts of power when used with a liquid or air cooled heat sink system.

Applications:
• Variable speed drivers • Power supplies • Robotics • Motor control • Control devices • Power designs

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	50 (50R)	680 (680)	10000 (10K)
5.0 (5R0)	100 (100)	1000 (1K0)	
10 (10R)	220 (220)	2700 (2K7)	
15 (15R)	390 (390)	5000 (5K0)	

Resistance Range (Ω)	Digi-Key Part No.†	Price Each 1	10	25	50
1.0 ~ 5,000	TAP800K(Code)E-ND	123.43	118.49	113.88	101.11
10,000	TAP800K10KE-ND	188.36	180.67	171.99	167.56

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE® TAP1000 Heat Sinkable Planar Resistors – 1000 Watt

RoHS COMPLIANT

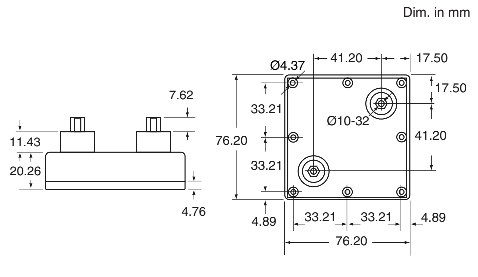

TAP1000 Series resistors deliver 1000 watts of continuous power with thick film on alumina substrate technology. Up to 30% smaller, the TAP1000 is capable of 2 to 4 times the power dissipation of traditional heat sinkable resistor technologies. Designed for use with liquid cooled heat sinks, TAP1000 resistors are capable of dissipating 1000 watts of continuous power when properly mounted (based on 70°C base temperature). Offering the highest power available in a heat sinkable package, the TAP1000 is well suited for power conditioning, power distribution, power conversion and power control applications. Constructed of durable, lightweight materials, the TAP1000 package is easy to design and mount.

Features: • Dissipates 1000 Watts @ 70°C Mounting Plate Temperature • High Energy Rating • Low Inductance • Resistor Element Electrically Isolated • High Dielectric Strength • Small Footprint **Applications:** • Power semiconductor balancing • Motor control • Inrush current limiting **Material Specifications:** Resistor element - thick film on alumina substrate Electrical Specifications: • Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 2000VDC • Power Rating: 1000W @70°C • Temperature Coefficient: ±250ppm/°C • Dielectric Strength: 6KV • Operating Temperature Range: -55°C ~ 150°C **Case Specifications**: • Terminal Screws (#10 - 32), Maximum Contacts Torque: 10 in-lb. • Mounting Screws (#8 - 32), Maximum Mounting Torque: 15 in-lb.

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.5 (2R50)	8.0 (8R00)	25 (25R0)
3.0 (3R00)	10 (10R0)	30 (30R0)
5.0 (5R00)	15 (15R0)	50 (50R0)

Resistance Range (Ω)	Digi-Key Part No.†	Price Each 1	10	25	50
2.5 ~ 50	TA1K0PH(Code)KE-ND	169.46	144.04	127.09	110.15

† For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OD, OF and OA Series — Little Demon® Carbon Composition Molded Resistors

Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the leads, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly and offer high temperature stability. Color codes are readable even after prolonged use, thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

Features: • Molded insulation for high dielectric strength • Rugged construction • High surge capabilities • Comparable to "Mil" RC07, RC20, and RC32 types **Material:** • Terminals: Solder-coated copper lead • Body: Molded Phenolic **Electrical:** • Derating: Linearly from 100% @ 70°C ~ 0% @ 130°C

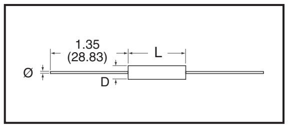

Series	Maximum Dimensions Inch (mm) L	D	ø
OD	0.276 (7.0)	0.098 (2.5)	.027 (.69)
OF	0.406 (10.3)	0.150 (3.8)	.029 (.75)
OA	0.591 (15.0)	0.236 (6.0)	.035 (.92)

OD SERIES — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	22 (220J)	200 (201J)	1.5K (152J)	12K (123J)	150K (154J)	3.6M (365J)
2.4 (24GJ)	27 (270J)	220 (221J)	1.8K (182J)	15K (153J)	180K (184J)	4.3M (435J)
3.0 (30GJ)	30 (300J)	240 (241J)	2.2K (222J)	18K (183J)	200K (204J)	4.7M (475J)
3.9 (39GJ)	33 (330J)	270 (271J)	2.4K (242J)	20K (203J)	220K (224J)	5.6M (565J)
4.3 (43GJ)	36 (360J)	300 (301J)	2.7K (272J)	22K (223J)	270K (274J)	
4.7 (47GJ)	39 (390J)	330 (331J)	3.0K (302J)	27K (273J)	300K (304J)	
5.1 (51GJ)	43 (430J)	360 (361J)	3.3K (332J)	33K (333J)	330K (334J)	
5.6 (56GJ)	47 (470J)	390 (391J)	3.6K (362J)	43K (433J)	430K (434J)	
6.2 (62GJ)	56 (560J)	430 (431J)	3.9K (392J)	47K (473J)	470K (474J)	
6.8 (68GJ)	62 (620J)	470 (471J)	4.3K (432J)	51K (513J)	510K (514J)	
7.5 (75GJ)	75 (750J)	560 (561J)	4.7K (472J)	56K (563J)	620K (624J)	
8.2 (82GJ)	82 (820J)	620 (621J)	5.6K (562J)	68K (683J)	680K (684J)	
10 (100J)	100 (101J)	750 (751J)	6.2K (622J)	75K (753J)	750K (754J)	
12 (120J)	120 (121J)	820 (821J)	7.5K (752J)	82K (823J)	1.0M (105J)	
15 (150J)	150 (151J)	1.0K (102J)	8.2K (822J)	100K (104J)	1.5M (155J)	
20 (200J)	180 (181J)	1.2K (122J)	10K (103J)	120K (124J)	2.4M (245J)	

OF SERIES RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	20 (200J)	220 (221J)	1.5K (152J)	22K (223J)	360K (364J)◊
2.4 (24GJ)	22 (220J)	240 (241J)	1.8K (182J)	24K (243J)	470K (474J)
2.7 (27GJ)	27 (270J)	270 (271J)	2.2K (222J)	27K (273J)	560K (564J)
3.0 (30GJ)	30 (300J)	300 (301J)	2.4K (242J)	33K (333J)	680K (684J)
3.3 (33GJ)	33 (330J)	330 (331J)	2.7K (272J)	39K (393J)	1.0M (105J)
3.9 (39GJ)	39 (390J)	360 (361J)	3.0K (302J)	47K (473J)	1.5M (155J)
4.3 (43GJ)	47 (470J)	390 (391J)	3.3K (332J)	68K (683J)	2.0M (205J)
4.7 (47GJ)	56 (560J)	430 (431J)	4.7K (472J)	82K (823J)	3.0M (305J)
5.1 (51GJ)	62 (620J)	470 (471J)	5.6K (562J)	100K (104J)	3.6M (365J)◊
5.6 (56GJ)	75 (750J)	560 (561J)	6.2K (622J)	120K (124J)	4.7M (475J)
6.8 (68GJ)	82 (820J)	620 (621J)	8.2K (822J)	150K (154J)	7.5M (755J)
10 (100J)	100 (101J)	750 (751J)	10K (103J)	180K (184J)	8.2M (825J)
12 (120J)	120 (121J)	820 (821J)	15K (153J)	220K (224J)	10M (106J)
15 (150J)	150 (151J)	1.0K (102J)	18K (183J)	300K (304J)	15M (156J)
18 (180J)	180 (181J)	1.2K (122J)	20K (203J)	330K (334J)	20M (206J)

OA SERIES — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GK)	33 (330K)	330 (331K)	4.7K (472K)	100K (104K)
2.7 (27GK)	39 (390K)	470 (471K)	10K (103K)	120K (124K)
3.3 (33GK)	47 (470K)	680 (681K)	12K (123K)	220K (224K)
4.7 (47GK)	56 (560K)	820 (821K)	18K (183K)	470K (474K)
5.6 (56GK)	82 (820K)	1.0K (102K)	22K (223K)	680K (684K)
10 (100K)	100 (101K)	1.2K (122K)	27K (273K)	1.0M (105K)
12 (120K)	120 (121K)	1.5K (152K)	33K (333K)	
15 (150K)	150 (151K)	2.2K (222K)	47K (473K)	
18 (180K)	180 (181K)	2.7K (272K)	100K (104K)	
22 (220K)	220 (221K)	3.9K (392K)	47K (473K)	
27 (270K)	270 (271K)			

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.*	Price Each 1	100	500
6.2 - 750K	.25	±5%	OD(Code)-ND	.35	.29	.27
360K - 8.2M	.50	±5%	OF(Code)-ND	.45	.37	.34
220K - 680K	1	±10%	OA(Code)-ND	1.60	1.31	1.22
RoHS Compliant						
2.2 - 5.6M	.25	±5%	OD(Code)E-ND	.42	.35	.32
2.2 - 20M	.50	±5%	OF(Code)E-ND	.52	.44	.40
2.2 - 1.0M	1	±10%	OA(Code)E-ND	2.10	1.92	1.73

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

High Voltage Resistors — "Super-Mox" Precision Thick Film Axial Resistors

RoHS COMPLIANT

High-voltage Super-Mox resistors have been developed to meet the precision temperature stability requirements of high-accuracy and high-voltage systems, combining proprietary non-inductive resistance system and design to achieve low temperature coefficient, low voltage coefficients, high stability and increased high operating voltages. Super-Mox low-TC precision high-voltage resistors are designed to meet the demanding requirements of high voltage power supplies, electron microscopes, X-ray systems, high resolution CRT displays and geophysical instruments.

Material Specifications:

- Encapsulation: Silicone Conformal Coating
- Terminal Material: Gold Plated
- Core Material: Al2O3 (96%)
- Resistor Material: Ruthenium Oxide

Electrical Specifications:

- Operating Temperature: -55° ~ 225°C
- Dielectric Strength: >1,000 Volt 25°C 75% relative humidity

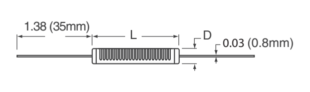

Series	Operating Voltage Maximum	Dimensions — Inches (mm) L	D
MOX910	15,000V	1.07 (27.00)	0.32 (8.00)
MOX920	21,000V	1.46 (37.00)	0.32 (8.00)
MOX930	30,000V	2.05 (52.00)	0.32 (8.00)
MOX940	45,000V	3.03 (77.00)	0.32 (8.00)
MOX950	60,000V	4.02 (102.00)	0.33 (8.30)
MOX960	72,000V	4.80 (122.00)	0.34 (8.50)
MOX970	90,000V	5.98 (152.00)	0.34 (8.50)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	20	100
1M	1%	3.8	MOX91021004FVE-ND	9.34	8.50	7.73	7.16
5M	1%	3.8	MOX91025004FVE-ND	9.34	8.50	7.73	7.16
10M	1%	3.8	MOX91021005FVE-ND	10.43	8.50	7.73	7.16
25M	1%	3.8	MOX91022505FTE-ND	9.34	8.50	7.73	7.16
10M	1%	5	MOX92021005FVE-ND	13.27	10.81	9.83	9.11
50M	1%	5	MOX92025005FVE-ND	13.27	10.81	9.63	8.19
100M	1%	5	MOX92021006FVE-ND	13.29	10.81	9.83	9.11
1000M	1%	5	MOX92021007FTE-ND	13.29	10.81	9.83	9.11
1M	1%	7.5	MOX93021004FVE-ND	15.99	13.00	11.82	10.95
5M	1%	7.5	MOX93025004FVE-ND	15.99	13.00	11.82	10.95
10M	1%	7.5	MOX93021005FVE-ND	15.99	13.00	11.60	9.86
10M	1%	10	MOX94021005FVE-ND	18.31	14.90	13.55	12.54
50M	1%	10	MOX94025005FVE-ND	16.39	14.90	13.55	12.54
100M	1%	10	MOX94021006FVE-ND	16.39	14.90	13.55	12.54
1000M	1%	10	MOX94021007FTE-ND	18.31	14.90	13.55	12.54
1M	1%	13.5	MOX95021004FVE-ND	19.49	17.73	16.11	14.93
5M	1%	13.5	MOX95025004FVE-ND	21.81	17.73	16.11	14.93
10M	1%	13.5	MOX95022505FVE-ND	21.80	17.73	16.11	14.93
25M	1%	13.5	MOX95022505FTE-ND	21.80	17.73	16.11	14.93
10M	1%	16	MOX96021005FVE-ND	25.32	20.60	18.72	17.34
50M	1%	16	MOX96021005FVE-ND	25.32	20.60	18.72	17.34
100M	1%	16	MOX96021006FVE-ND	22.65	20.60	18.72	17.34
1000M	1%	16	MOX96021007FTE-ND	25.32	20.60	18.72	17.34
1M	1%	20	MOX97021004FVE-ND	28.83	26.22	23.84	22.08
5M	1%	20	MOX97025004FVE-ND	32.24	26.22	23.38	19.86
10M	1%	20	MOX97021005FVE-ND	32.24	26.22	23.84	22.08
25M	1%	20	MOX97022505FTE-ND	32.24	26.22	23.84	22.08

OHMITE

OX/OY Resistor Series – Ceramic Composition

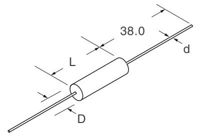

Series	Max. Dimensions – Inch (mm)		
	D	L	d
OX	.256 (6.5)	.649 (16.5)	.030 (.81)
OY	.315 (8.0)	.787 (20.0)	.030 (.81)

Features: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy density demands • High peak power • 10% Tolerance **Material:** • Terminals: Solder-coated axial leads • Coating: UL 94V-0 approved silicone **Derating:** • Linear from 100% @ 70°C ~ 0% @ 200°C **Electrical:** • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air rating • Temperature Coefficient: -1300 ±300ppm/°C • Dielectric Withstanding Voltage: 500VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY Series)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	33 (330K)	330 (331K)	2.7K (272K)	22K (223K)	220K (224K)
3.9 (39GK)	39 (390K)	390 (391K)	3.3K (332K)	27K (273K)	270K (274K)
4.7 (47GK)	47 (470K)	470 (471K)	3.9K (392K)	33K (333K)	330K (334K)
5.6 (56GK)	56 (560K)	560 (561K)	4.7K (472K)	39K (393K)‡	390K (394K)
6.8 (68GK)	82 (820K)	680 (681K)	5.6K (562K)	47K (473K)	470K (474K)
8.2 (82GK)	100 (101K)	820 (821K)	8.2K (822K)	56K (563K)	560K (564K)
10 (100K)	120 (121K)	1K (102K)	10K (103K)	68K (683K)	680K (684K)
12 (120K)	150 (151K)	1.2K (122K)	12K (123K)◊	82K (823K)	1MEG (105K)
15 (150K)	180 (181K)	1.5K (152K)	15K (153K)	100K (104K)	
22 (220K)	220 (221K)	1.8K (182K)	18K (183K)‡	120K (124K)	
27 (270K)	270 (271K)	2.2K (222K)		150K (154K)	

Resistance Range (Ω)	Watt-age	Joules Max.**	Digi-Key Part No.†	Price Each			Ohmite Part No.†
				1	100	1,000	
8.2K ~ 33K	1	50	OX(Code)-ND	.56	.46	.41	OX(Code)
680 ~ 56K	2	80	OY(Code)-ND	.76	.63	.56	OY(Code)
150K	2	80	OY154K-ND	.89	.73	.65	OY154K
RoHS Compliant							
3.3 ~ 5.6, 8.2 ~ 12	1	50	OX(Code)E-ND	.89	.71	.58	OX(Code)E
22 ~ 100, 120 ~ 10K,	1	50	OX(Code)E-ND	.99	.80	.65	OX(Code)E
15K ~ 100K	1	50	OX(Code)E-ND	.91	.72	.59	OX(Code)E
3.3 ~ 6.8, 10 ~ 100, 120 ~ 1K	2	80	OY(Code)E-ND	1.28	1.03	.84	OY(Code)E
1.5K ~ 10K, 15K ~ 100K	2	80	OY(Code)E-ND	1.20	.96	.79	OY(Code)E
120K, 150K, 220K ~ 1M	2	80	OY(Code)E-ND	1.41	1.12	.91	OY(Code)E

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ** For a single impulse. ‡ Not available in OX Series RoHS Compliant ◊ Not available in RoHS Compliant

33J, 35J and 30J Series — High Energy Wirewound Resistors

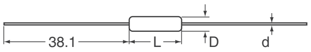

Specifications:
• Resistance Tolerance: ±5% • Contact Type: 2 Terminals - Axial

Resistance Range (Ω)	Power (Watt)	Voltage	Lead AWG	Dimensions - mm			Digi-Key Part No.*	Price Each		
				d	D	L		1	10	100
30	3.0	200	20	.032	5.5	15.1	33J30R-ND	1.26	1.11	.96
7.5	5.0	460	18	.0403	8.7	23.8	35J7R5-ND	1.40	1.24	1.09
82	10.0	1000	18	.0403	10.3	41.7	30J82R-ND	1.82	1.61	1.41
RoHS Compliant										
1.0 ~ 100	3.0	200	20	.032	5.5	15.1	33J(Code)E-ND	1.24	1.02	.92
1.5 ~ 47	5.0	460	18	.0403	8.7	23.8	35J(Code)E-ND	1.37	1.13	1.00
2.0 ~ 100	10.0	1000	18	.0403	10.3	41.7	30J(Code)E-ND	1.78	1.47	1.31

RESISTANCE VALUE CHART

33J Series		35J Series	30J Series	
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	30 (30R)◊	1.5 (1R5)	2.0 (2R0)	82 (82R)◊
10 (10R)	50 (50R)	7.5 (7R5)	15 (15R)	100 (100)
15 (15R)	100 (100)	22 (22R)	27 (27R)	
25 (25R)		47 (47R)	33 (33R)	

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

WH Series and Non-Inductive WN Series — Miniature Molded Wirewound Resistors

RoHS COMPLIANT

Specifications:
Material: • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Terminals: Copper wire, 100% Sn (lead free) coated • ISAOHM alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation **Electrical:** • Tolerance: ±1.0% **Features:** • WN Series, Aryton Perry winding Non-Inductive • Inductance <nH at 1MHz test

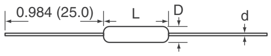

Type	Dimensions Inch (mm)		
	L	D	d
WHA, WNA	.200 (5.08)	.10 (2.54)	.024 (.60)
WHB, WNB	.276 (7.00)	.12 (3.00)	.024 (.60)
WHC, WNC	.450 (11.4)	.27 (6.86)	.031 (.80)

RESISTANCE VALUE CHARTS

WHA

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	250 (250)
5.0 (5R0)	330 (330)
10 (10R)	470 (470)
15 (15R)	1.0K (1K0)
51 (51R)	

WHB

Value (Code)	Value (Code)
.10 (R10)	100 (100)
.25 (R25)	150 (150)
.50 (R50)	200 (200)
.75 (R75)	250 (250)
1.0 (1R0)	470 (470)
5.0 (5R0)	560 (560)
10 (10R)	750 (750)
25 (25R)	1.0K (1K0)
51 (51R)	2.5K (2K5)
75 (75R)	

WHC

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	200 (200)
.75 (R75)	330 (330)
1.0 (1R0)	560 (560)
5.0 (5R0)	750 (750)
10 (10R)	1.0K (1K0)
15 (15R)	
51 (51R)	

WNA (Non-Inductive)

Value (Code)	Value (Code)
.50 (R50)	51 (51R)
.75 (R75)	75 (75R)
1.0 (1R0)	100 (100)
5.0 (5R0)	150 (150)
10 (10R)	200 (200)
15 (15R)	250 (250)
25 (25R)	

WNB (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	200 (200)
.75 (R75)	330 (330)
1.0 (1R0)	560 (560)
5.0 (5R0)	750 (750)
10 (10R)	1.0K (1K0)
15 (15R)	
51 (51R)	

WNC (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	100 (100)
.50 (R50)	150 (150)
1.0 (1R0)	330 (330)
2.0 (2R0)	470 (470)
5.0 (5R0)	750 (750)
10 (10R)	1.0K (1K0)
15 (15R)	
51 (51R)	
75 (75R)	

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.*	Cut Tape Price Each			Digi-Key Part No.*	Tape and Reel Pricing 1,000
			1	25	100		
.10 ~ 1.0K	0.5	WHA(Code)FECT-ND	.93	.84	.74	WHA(Code)FETR-ND	530.00
.10 ~ 2.5K	1.0	WHB(Code)FECT-ND	.93	.84	.74	WHB(Code)FETR-ND	530.00
.10 ~ 1.0K	2.0	WHC(Code)FECT-ND	.93	.84	.74	WHC(Code)FETR-ND	530.00
.50 ~ 250	0.5	WNA(Code)FECT-ND	1.15	1.04	.92	WNA(Code)FETR-ND	650.00
.10 ~ 1.0K	1.0	WNB(Code)FECT-ND	1.15	1.04	.92	WNB(Code)FETR-ND	650.00
.10 ~ 1.0K	2.0	WNC(Code)FECT-ND	1.15	1.04	.92	WNC(Code)FETR-ND	650.00

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

90 Series — Vitreous Enamel Molded Axial Terminal Wirewound Resistors, 5% Tolerance

Specifications:
Material: • Coating: Molded vitreous enamel • Core: Ceramic
Electrical: • Power Rating: Based on 25°C free air rating • Temperature Coefficient: 1 ~ 9.99Ω: ±100ppm/°C; 10Ω and over: ±30ppm/°C

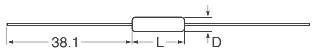

RESISTANCE VALUE CHART

92J Series	93J Series	95J Series		90J Series	
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R)	1.0 (1R0)	3.0 (3R0)	250 (250)	1.0 (1R0)	500 (500)
	10 (10R)	10 (10R)	500 (500)	3.0 (3R0)	1.0 (1K0)
	200 (200)	20 (20R)	2.5K (2K5)	5.0 (5R0)	1.5 (1K5)
	330 (330)	40 (40R)	3.0K (3K0)	10 (10R)	4.0 (4K0)
	5.6K (5K6)	50 (50R)	3.3K (3K3)	25 (25R)	5.0 (5K0)
	10K (10K)	75 (75R)	10K (10K)	50 (50R)	10 (10K)
		100 (100)			

Resistance Range (Ω)	Power (Watt)	Voltage	Lead AWG	Dimensions - mm		Digi-Key Part No.*	Price Each		
				D	L		1	50	100
10	2.25	85	20	5.6	10.3	92J10R-ND	2.42	2.22	1.83
1.0	3.25	200	20	5.9	14.7	93J1R0-ND	2.53	2.28	1.90
10, 200	3.25	200	20	5.9	14.7	93J(Code)-ND	2.12	1.94	1.61
5.6K, 10K	3.25	200	20	5.9	14.7	93J(Code)-ND	4.30	3.90	3.23
3.0	5.0	495	20	5.9	24.6	95J3R0-ND	2.97	2.71	2.24
10, 20, 40, 50, 100	5.0	495	20	5.9	24.6	95J(Code)-ND	2.62	2.40	1.99
500	5.0	495	20	5.9	24.6	95J500-ND	3.19	2.91	2.41
2.5K, 3.3K	5.0	495	20	5.9	24.6	95J(Code)-ND	4.33	3.93	3.25
10K	5.0	495	20	5.9	24.6	95J10K-ND	5.26	4.77	3.95
1.0	11.0	1080	20	8.7	45.6	90J1R0-ND	4.63	4.21	3.48
5.0, 10, 50	11.0	1080	20	8.7	45.6	90J(Code)-ND	3.88	3.52	2.92
500	11.0	1080	20	8.7	45.6	90J500-ND	4.77	3.93	3.58
1.5K	11.0	1080	20	8.7	45.6	90J1K5-ND	5.34	4.39	4.03
5.0K, 10K	11.0	1080	20	8.7	45.6	90J(Code)-ND	6.46	5.83	4.84
RoHS Compliant									
10, 330	3.25	200	20	5.9	14.7	93J(Code)E-ND	1.94	1.77	1.47
75, 250	5.0	495	20	5.9	24.6	95J(Code)E-ND	2.40	2.20	1.83
3.0K	5.0	495	20	5.9	24.6	95J3K0E-ND	3.98	3.60	2.98
3.0, 25	11.0	1080	20	8.7	45.6	90J(Code)E-ND	3.89	3.50	2.93
1.0K	11.0	1080	20	8.7	45.6	90J1K0E-ND	4.90	4.03	3.70
4.0K	11.0	1080	20	8.7	45.6	90J4K0E-ND	5.53	4.97	4.14
10K	11.0	1080	20	8.7	45.6	90J10KE-ND	5.90	5.33	4.42

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Axial Wirewound Resistors — 20 and 40 Series

RESISTANCE VALUE CHART (for Vitreous Wirewound and Silicone Resistors)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	3.0 (3R0)	30 (30R)	120 (120)	390 (390)	900 (900)	3.0K (3K0)	8.2K (8K2)	20.0K (20K)
.13 (R13)	4.0 (4R0)	33 (33R)	125 (125)	400 (400)	1.0K (1K0)	3.5K (3K5)	8.5K (8K5)▲	22.0K (22K)▲
.15 (R15)	5.0 (5R0)	35 (35R)	150 (150)	450 (450)§▲	1.1K (1K1)	3.9K (3K9)	9.0K (9K0)▲	22.5K (22K5)▲
.20 (R20)	7.5 (7R5)	39 (39R)	180 (180)	470 (470)	1.2K (1K2)	4.0K (4K0)	10.0K (10K)	25.0K (25K)
.25 (R25)	10 (10R)	40 (40R)	200 (200)	500 (500)	1.25K (1K25)▲	4.7K (4K7)§	11.0K (11K)▲	30K (30K)▲
.30 (R30)	12 (12R)	47 (47R)	220 (220)	560 (560)	1.5K (1K5)	5.0K (5K0)	12.0K (12K)▲	50K (50K)▲
.33 (R33)	15 (15R)	50 (50R)	225 (225)§	600 (600)	1.8K (1K8)§◊	5.6K (5K6)	12.5K (12K5)	
.50 (R50)	18 (18R)	56 (56R)	250 (250)	680 (680)	2.0K (2K0)	6.0K (6K0)	13.5K (13K5)▲	
.75 (R75)	20 (20R)	68 (68R)	270 (270)	700 (700)§	2.2K (2K2)	6.8K (6K8)	15.0K (15K)	
1.0 (1R0)	22 (22R)	75 (75R)	300 (300)	750 (750)	2.25K (2K25)§▲	7.0K (7K0)▲	16.0K (16K)▲	
1.5 (1R5)	25 (25R)	82 (82R)	330 (330)	800 (800)	2.5K (2K5)	7.5K (7K5)	17.5K (17K5)▲	
2.0 (2R0)	27 (27R)	100 (100)	350 (350)	820 (820)	2.7K (2K7)	8.0K (8K0)	18.0K (18K)▲	

▲Value not available in Silicone-Ceramic Conformal § Not available in Silicone-Ceramic Conformal RoHS Compliant
◊ Not available in RoHS Compliant

Vitreous Enamel Conformal Wirewound Resistors

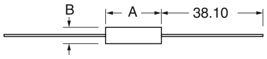

Resistor Series	Maximum Length A - mm	Maximum Diameter B - mm	Lead Diameter mm
23J	12.7	5.6	.81
25J	25.4	7.0	.81
20J	46.8	10.0	.81

Electrical Specifications:	23J Series	25J Series	20J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating	3W	5W	10W
Dielectric Withstanding Voltage	1000V	1000V	1000V
Short Time Overload Rated wattage for 5 seconds	5 times	10 times	10 times

Resistance Range (Ω)	Watt-age	Digi-Key Part No.*	Price Each 1	50	100
75	3	23J75R-ND	1.19	1.05	.92
600	3	23J600-ND	1.16	1.03	.90
1.25K	3	23J1K25-ND	1.89	1.35	1.30
30	5	25J30R-ND	1.54	1.35	1.17
400 ~ 450	5	25J(Code)-ND	1.29	1.13	.99
11.0K ~ 13.0K	5	25J(Code)-ND	2.87	2.47	2.16
47 ~ 50	10	20J(Code)-ND	1.89	1.67	1.46
220 ~ 270	10	20J(Code)-ND	1.72	1.52	1.32
17.5K	10	20J17K5-ND	3.59	3.05	2.69
30K, 50K	10	20J(Code)-ND	4.04	3.24	3.04
RoHS Compliant					
.10, .15 ~ .33	3	23J(Code)E-ND	2.09	1.78	1.56
.50 ~ 7.5	3	23J(Code)E-ND	1.46	1.24	1.11
10 ~ 82	3	23J(Code)E-ND	1.26	1.09	.96
100 ~ 400	3	23J(Code)E-ND	1.16	.99	.88
470 ~ 560 680 ~ 750, 820	3	23J(Code)E-ND	1.27	1.08	.95
1.0K, 1.2K, 1.5K, 2.0K, 2.2K, 2.7K ~ 3.9K, 4.7K	3	23J(Code)E-ND	1.73	1.46	1.30
5.0K ~ 6.8K	3	23J(Code)E-ND	2.21	1.88	1.66
8.0K, 10.0K	3	23J(Code)E-ND	2.58	2.21	1.95
.10, .15 ~ .30	5	25J(Code)E-ND	1.81	1.55	1.37
1.0 ~ 7.5	5	25J(Code)E-ND	1.73	1.46	1.30
10 ~ 33, 40 ~ 50, 68 ~ 82	5	25J(Code)E-ND	1.65	1.40	1.24
100 ~ 150, 200 ~ 220, 250 ~ 470	5	25J(Code)E-ND	1.39	1.19	1.04
500 ~ 680, 750	5	25J(Code)E-ND	1.57	1.33	1.18
1.0K, 1.2K, 1.5K, 18 ~ 2.2K, 2.5K, 3.0K ~ 3.5K, 4.0K ~ 4.7K	5	25J(Code)E-ND	1.89	1.62	1.43
5.0K ~ 7.0K, 8.0K, 8.2K	5	25J(Code)E-ND	2.38	2.04	1.79
10.0K, 12.0K, 15.0K	5	25J(Code)E-ND	2.62	2.25	1.97
20.0K, 22.0K, 25.0K	5	25J(Code)E-ND	3.13	2.66	2.36
.10, .20, .25, .50	10	20J(Code)E-ND	2.24	1.90	1.68
1.0 ~ 7.5	10	20J(Code)E-ND	2.17	1.85	1.62
10, 15 ~ 35, 40, 50 ~ 82	10	20J(Code)E-ND	2.04	1.73	1.52
47	10	20J47RE-ND	2.04	1.64	1.52
100 ~ 200, 250 ~ 330, 390 ~ 500, 680, 750	10	20J(Code)E-ND	1.84	1.57	1.38
1.0K, 1.2K ~ 1.5K, 2.0K, 2.2K, 2.5K	10	20J(Code)E-ND	2.22	1.88	1.66
3.0K, 3.3K, 3.9K, 4.7K	10	20J(Code)E-ND	2.53	2.16	1.89
5.0K, 6.0K, 6.8K, 8.2K, 9.0K	10	20J(Code)E-ND	2.88	2.45	2.17
10.0K, 15.0K, 20.0K, 22.0K	10	20J(Code)E-ND	3.29	2.80	2.46
25.0K	10	20J25KE-ND	3.71	3.16	2.79
30K	10	20J30KE-ND	3.71	2.98	2.79
50K	10	20J50KE-ND	3.71	2.98	2.79

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code)

Silicone - Ceramic Conformal Wirewound Resistors

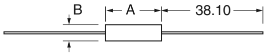

Resistor Series	Maximum Length A - mm	Maximum Diameter B - mm	Lead Diameter mm
40F Series			
41F	11.1	3.2	.51
43F	15.1	5.5	.81
45F	23.8	8.7	1.02
40J Series			
41J	11.1	3.2	.51
42J	10.3	5.6	.81
43J	15.1	5.5	.81
45J	23.8	8.7	1.02
40J	41.7	10.3	1.02

Electrical Specifications:	41F Series	43F Series	45F Series
Resistance Tolerance	±1%	±1%	±1%
Power Rating Ambient Temperature	1W @ 25°C	3W @ 25°C	5W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	250VAC	500VAC	500VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Electrical Specifications:	41J Series	42J Series	43J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating Ambient Temperature	1W @ 25°C	2W @ 25°C	3W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	250VAC	500VAC	500VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

Electrical Specifications:	45J Series	40J Series
Resistance Tolerance	±5%	±5%
Power Rating Ambient Temperature	5W @ 25°C	10W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C	
Dielectric Withstanding Voltage	500VAC	500VAC
Short Time Overload	10 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Watt-age	Digi-Key Part No.*	Price Each 1	25	100
40F Series					
150	1	41F150-ND	2.22	1.97	1.70
250	1	41F250-ND	2.59	2.22	1.96
47 ~ 82	3	43F(Code)-ND	1.19	1.07	.91
3.5K	3	43F3K5-ND	1.96	1.74	1.51
6.0K ~ 6.8K	3	43F(Code)-ND	2.78	2.67	2.45
.30	5	45F(Code)-ND	2.02	1.79	1.55
40F Series — RoHS Compliant					
.10 ~ .50	1	41F(Code)E-ND	2.55	2.30	2.17
1.0 ~ 5.0	1	41F(Code)E-ND	2.46	2.10	1.86
10 ~ 22, 39, 40, 50, 68	1	41F(Code)E-ND	2.13	1.92	1.81
100, 120, ~ 270, 390 ~ 400	1	41F(Code)E-ND	2.38	2.03	1.80
500	1	41F(Code)E-ND	2.63	2.23	1.98
1.0K, 1.2K, 1.5K	1	41F(Code)E-ND	3.00	2.70	2.55
3.0K	1	41F3K0E-ND	3.61	3.07	2.71
.10 ~ .75	3	43F(Code)E-ND	1.96	1.68	1.48
10, 15 ~ 82	3	43F(Code)E-ND	1.27	1.09	.97
100 ~ 220, 250, 350, 470 ~ 680, 750, 800, 900	3	43F(Code)E-ND	1.14	.98	.86
1.0K ~ 1.2K, 1.5K	3	43F(Code)E-ND	1.36	1.15	1.02
2.0K, 2.5K	3	43F(Code)E-ND	1.76	1.49	1.33
3.0K	3	43F(Code)E-ND	2.12	1.80	1.59
6.8K	3	43F(Code)E-ND	2.54	2.17	1.92
7.5K, 8.0K, 10.0K	3	43F(Code)E-ND	2.63	2.23	1.98
.10 ~ .75	5	45F(Code)E-ND	2.18	1.85	1.64
1.0 ~ 5.0	5	45F(Code)E-ND	1.51	1.28	1.14
10 ~ 82	5	45F(Code)E-ND	1.36	1.15	1.02
100, 120, 150, 200, 250 ~ 330, 470, 500, 600, 680, 750	5	45F(Code)E-ND	1.27	1.09	.97
1.0K ~ 1.2K, 1.5K, 2.0K	5	45F(Code)E-ND	1.46	1.24	1.10
5.0K, 6.0K, 6.8K	5	45F(Code)E-ND	1.71	1.53	1.45
10.0K, 15.0K	5	45F(Code)E-ND	2.37	2.02	1.80
20.0K, 25.0K	5	45F(Code)E-ND	2.96	2.52	2.22
40J Series					
.20, .30, .50	3	43J(Code)-ND	1.87	1.67	1.59
100	10	40J100-ND	1.72	1.38	1.25
40J Series — RoHS Compliant					
.20, .50	1	41J(Code)E-ND	2.20	1.87	1.65
1.0, 100	1	41J(Code)E-ND	2.09	1.78	1.57
10, 40	1	41J(Code)E-ND	2.00	1.71	1.51
1.0K	1	41J(Code)E-ND	2.71	2.30	2.05
.10, .15, .20, .30 .50, .75	2	42J(Code)E-ND	2.20	1.87	1.65
1.0, 1.5, 2.0, 3.0 4.0, 5.0, 7.5	2	42J(Code)E-ND	1.36	1.15	1.02
10, 15, 20, 22, 25, 33, 47 50, 75, 82	2	42J(Code)E-ND	1.04	.95	.88
100, 120, 180, 200, 220, 250	2	42J(Code)E-ND	1.02	.93	.86
500, 680	2	42J(Code)E-ND	1.40	1.26	1.19
3.0K	2	42J3K0E-ND	1.86	1.58	1.41
.10, .15, .20 .30, .50, .75	3	43J(Code)E-ND	1.70	1.45	1.27
1.0 ~ 7.5, 1.0K	3	43J(Code)E-ND	1.14	.98	.85
10, 15, 20 ~ 25 33, 50 ~ 56, 75 ~ 82	3	43J(Code)E-ND	1.02	.87	.77
100, 120, 125, 180, 200, 220, 250, 500, 680	3	43J(Code)E-ND	.95	.86	.80
8K	3	43J8K0E-ND	2.00	1.80	1.70
10.0K	3	43J10KE-ND	2.09	1.78	1.57
.10, .50	5	45J(Code)E-ND	1.89	1.61	1.43
1.0, 2.0, 5.0	5	45J(Code)E-ND	1.31	1.20	1.11
10 ~ 15 20 ~ 30, 50 ~ 56 100, 200, 470	5	45J(Code)E-ND	1.08	.92	.82
680 1.0K, 1.5K	5	45J(Code)E-ND	1.27	1.09	.97
5.0K, 6.8K	5	45J(Code)E-ND	1.57	1.35	1.18
.10, .20, .50	10	40J(Code)E-ND	2.36	2.01	1.79
1.0, 2.0, 5.0	10	40J(Code)E-ND	1.88	1.60	1.42
10, 15, 25, 27, 40, 50, 56, 100, 200, 470, 680	10	40J(Code)E-ND	1.58	1.34	1.18
1.0K, 1.5K,	10	40J(Code)E-ND	1.71	1.53	1.45
5.0K	10	40J5K0E-ND	1.96	1.68	1.48

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code)

OHMITE WFH Series — Aluminum Housed Power Wirewound Resistors

Features:
• Ohmite's new flat core winding technology allows for wirewound heat sinkable resistors affording a very low profile and superior thermal transfer characteristics when compared to conventional aluminum housed wirewound resistors. • Close mounting of heat sensitive components is possible due to only a slight rise of the temperature on the aluminum profile. • No heat sink compound is required because of large mounting surface.

Specifications:
• Dielectric Strength: 2500VAC peak • Working Voltage: 1200VAC • Insulation: Silicone Rubber & Mica. The Silicone is UL-recognized (UL 94 HB) to a working temperature of 220°C. Temperatures of up to 300°C can be endured for shorter periods, however this may cause an expansion of the silicone rubber with a possibility of reducing the dielectric strength.
Note: *Please see data sheet for heat sink recommendations.*

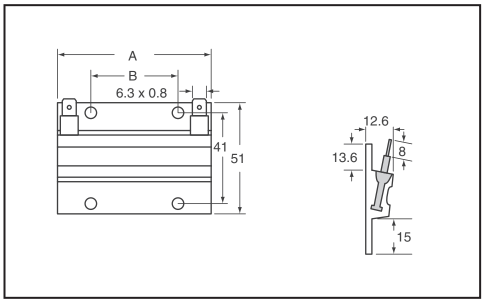

RESISTANCE VALUE CHARTS

WFH90L( )K	WFH90L( )J	WFH160L( )K	WFH160L( )J	WFH230L( )J	WFH330L( )K	WFH330L( )J
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
4.7 (4R7)	50 (50R)	2.0 (2R0)	50 (50R)	27 (27R)	1.0 (1R0)	50 (50R)
10 (10R)	100 (100)		100 (100)	50 (50R)	2.0 (2R0)	250 (250)
	750 (750)		150(150)	75 (75R)		1.0K (1K0)
			150(150)	250 (250)		5.0K (5K0)

Resistance Range (Ω)	Wattage	Tolerance %	Dimensions - mm		Digi-Key Part No.*	Price Each		
			A	B		1	25	100
750	90	±5	70	39.7	WFH90L750J-ND	22.51	20.46	18.42
RoHS Compliant								
4.7 ~ 10	90	±10	70	39.7	WFH90L(Code)KE-ND	37.58	30.04	25.54
50 ~ 100	90	±5	70	39.7	WFH90L(Code)JE-ND	35.80	28.64	24.35
2.0	160	±10	140	80	WFH160L2R0KE-ND	39.55	31.65	26.90
50 ~ 150	160	±5	140	80	WFH160L(Code)JE-ND	37.70	30.14	25.62
27 ~ 250	230	±5	210	2x 80	WFH230L(Code)JE-ND	48.68	38.93	33.10
1.0 ~ 2.0	330	±10	280	2x 100	WFH330L(Code)KE-ND	60.95	48.77	41.45
50 ~ 1.0K	330	±5	280	2x 100	WFH330L(Code)JE-ND	58.23	46.56	39.57
5.0K	330	±5	280	2x 100	WFH330L5K0JE-ND	60.95	48.77	41.45

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

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89 Series — Aluminum Housed Axial Terminal Wirewound Resistors

The 89 Series are high performance axial terminal resistors. They are better suited to withstand vibration, shock and harsh environmental conditions than standard axial resistors. The 89 Series are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The housing also provides heat-sinking capabilities.

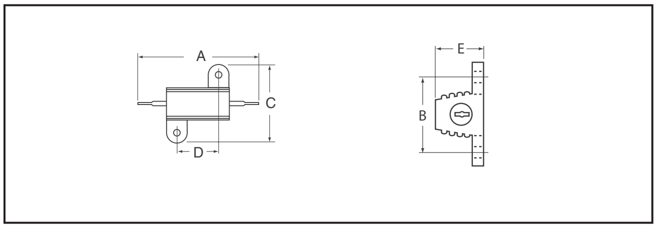

Watts	Maximum Dimensions - mm				
	A	B	C	D	E
5	28.59	12.45	16.41	11.28	8.13
10	34.93	15.88	20.63	14.28	10.31
25	49.23	19.84	27.79	18.26	14.28
50	70.64	21.44	29.36	39.68	15.88

Electrical Specifications:

	5 Watt	10 Watt	25 Watt	50 Watt
Resistance Tolerance	±1%	±1%	±1%	±1%
Proper Heat Sink (mm) *	101.60 x 152.40 x 50.80 x 1.02 aluminum chassis		127.00 x 177.80 x 50.80 x 1.02 aluminum chassis	304.80 x 304.80 x 1.50 aluminum panel
Maximum Operating Voltage	210	320	520	1170
Overload	5 times rated power for 5 seconds			
Temperature Coefficient	Under 1Ω — ±90 ppm/°C 1Ω ~ 9.99Ω — ±50 ppm/°C 10Ω and over — ±20 ppm/°C			
Dielectric Withstanding Voltage	1000VAC	1000VAC	2250VAC	2250VAC

RESISTANCE VALUE CHART

805F Series		810F Series	825F Series		850F Series	
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	75 (75R)	1.0 (1R0)	.10 (R10)	50 (50R)	.10 (R10)	100 (100)
2.0 (2R0)	100 (100)	5.0 (5R0)	.30 (R30)	75 (75R)	1.0 (1R0)	150 (150)
5.0 (5R0)	150 (150)	10 (10R)	.50 (R50)	100 (100)	2.0 (2R0)	500 (500)
7.5 (7R5)	250 (250)	15 (15R)	1.0 (1R0)	150 (150)	3.0 (3R0)	750 (750)
10 (10R)	500 (500)	20 (20R)	2.0 (2R0)	250 (250)	5.0 (5R0)	1.0K (1K0)
15 (15R)		50 (50R)	3.0 (3R0)	500 (500)	10 (10R)	2.5K (2K5)
25 (25R)		75 (75R)	5.0 (5R0)	750 (750)	15 (15R)	5.0K (5K0)
40 (40R)		100 (100)	7.5 (7R5)	1.0K (1K0)	25 (25R)	10.0K (10K)
50 (50R)		250 (250)	10 (10R)	2.5K (2K5)	40 (40R)	25.0K (25K)
		500 (500)	20 (20R)	10.0K (10K)	50 (50R)	100K (100K)
		10.0K (10K)	25 (25R)	25.0K (25K)	75 (75R)	

* Power rating is based on chassis mounting area and temperature stability.

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each			
			1	10	50	100
3.0	25	825F3R0-ND	6.08	5.48	4.86	4.57
3.0	50	850F3R0-ND	7.02	6.30	5.61	5.20
25.0K	50	850F25K-ND	9.43	7.55	7.08	5.67
RoHS Compliant						
1.0 ~ 25	5	805F(Code)E-ND	4.13	3.72	3.31	3.10
40 ~ 500	5	805F(Code)E-ND	4.53	4.07	3.62	3.40
1.0 ~ 500	10	810F(Code)E-ND	4.34	3.90	3.47	3.25
.10	25	825FR10E-ND	6.16	5.55	4.94	4.62
.30, .50	25	825F(Code)E-ND	6.16	5.56	4.92	4.59
1.0, 2.0, 5.0 ~ 75	25	825F(Code)E-ND	5.55	5.00	4.46	4.18
3.0	25	825F3R0E-ND	5.58	5.02	4.46	4.15
100 ~ 750	25	825F(Code)E-ND	5.75	5.18	4.60	4.32
1.0K ~ 2.5K	25	825F(Code)E-ND	6.44	5.78	5.15	4.84
10.0K	25	825F10KE-ND	7.08	6.38	5.67	5.30
25.0K	25	825F25KE-ND	8.86	7.97	7.10	6.65
.10	50	850FR10E-ND	7.84	7.04	6.27	5.87
1.0, 2.0, 5.0 ~ 750	50	850F(Code)E-ND	6.44	5.78	5.15	4.84
3.0	50	850F3R0E-ND	6.44	5.78	5.15	4.77
1.0K ~ 5.0K	50	850F(Code)E-ND	7.28	6.57	5.84	5.49
10.0K	50	850F10KE-ND	7.68	6.94	6.15	5.78
25.0K	50	850F25KE-ND	8.65	7.81	6.92	6.49
100K	50	850F100KE-ND	11.74	10.58	9.40	8.81

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Slim-Mox Series — Precision Thick Film Planar Resistors

Features: • High dielectric and low outgassing epoxy coating • Low resistor noise • Non-inductive
Applications • HV power supplies • Medical instrumentation • Current pulse limiters • Ionization chambers
Material: • Resistor: Thick film on Alumina
Electrical: • Operating Temperature: -55°C ~ 110°C

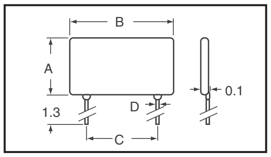

RESISTANCE VALUE CHART
SM204F

Value	Value
10M	100M

RESISTANCE VALUE CHART
SM104J

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
SM102J and SM204J

Value	Value	Value
1K	100K	10M
2.5K	150K	50M
5K	500K	100M
7.5K	750K	
10K	1M	
12.5K	1.25M	
15K	1.5M	
75K	5M	

RESISTANCE VALUE CHART
SM102F and SM104F

Value	Value	Value
400K	10M	200M
500K	20M	300M
2M	30M	500M
3M	40M	1000M
4M	50M	3000M
5M	100M	5000M

RESISTANCE VALUE CHART
SM108F

Value	Value	Value
300K	40M	2000M
500K	50M	3000M
4M	200M	5000M
5M	300M	
20M	500M	

Series	Dimensions - Inch (mm) A Maximum	B Maximum	C ±.025	D ±.002
SLIM-MOX102	0.34 (8.64)	0.58 (14.73)	0.40 (10.16)	0.032 (.813)
SLIM-MOX104	0.34 (8.64)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)
SLIM-MOX108	0.34 (8.64)	2.08 (52.83)	1.90 (48.26)	0.032 (.813)
SLIM-MOX204	0.59 (14.99)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	50	100
10M	±5%	1	SM102J-10M-ND	4.37	3.86	3.16	1.99
10M, 100M, 1000M	±1%	1	SM102F-(Value)-ND	4.09	3.54	2.96	1.93
400K ~ 5000M	±1%	1	SM102F-(Value)-ND	3.98	3.50	2.87	1.81
3000M	±1%	1.5	SM104F-3000M-ND	4.92	4.03	2.54	1.87
300K ~ 200M	±1%	2.5	SM108F-(Value)-ND	4.76	3.97	3.31	2.79
2M ~ 5M	±5%	2	SM204J-(Value)-ND	6.72	4.77	4.32	3.97
RoHS Compliant							
100M	±5%	1.0	SM102JE-100M-ND	4.59	4.05	3.31	2.09
10M, 100M, 1000M	±5%	1.5	SM104JE-(Value)-ND	4.13	3.63	3.03	1.81
10M, 100M, 1000M	±1%	1.5	SM104FE-(Value)-ND	4.69	4.10	3.41	2.22
400K ~ 5M, 20M ~ 50M, 200M ~ 500M,	±1%	1.5	SM104FE-(Value)-ND	4.69	4.13	3.38	2.13
500K ~ 5000M	±1%	2.5	SM108FE-(Value)-ND	5.85	5.15	4.22	2.66
10K, 150K ~ 1.5M	±5%	2	SM204JE-(Value)-ND	6.04	5.64	4.83	4.00
10M, 100M	±1%	2	SM204FE-(Value)-ND	5.85	5.46	4.68	3.99

* For complete part number, substitute the corresponding value from the Resistance Value Chart.

Ceramic Housed Radial Terminal Power Resistors

The TWW/TWM Series radial terminal power resistors offer significant board space savings over axial products. Generated heat is also kept away from the circuit board. They are recommended for commercial applications requiring low cost.

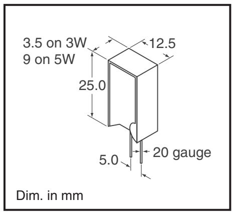

Dim. in mm

Series	Power Rating	Voltage	Element
TWW3	3W	250	Wire
TWW5	5W	350	Wire
TWM3	3W	250	Metal Oxide
TWM5	5W	350	Metal Oxide

Electrical Specifications:

	TWW Series	TWM Series
Resistance Tolerance	±5% standard	±5% standard
Temperature Coefficient	.1Ω ~ 20Ω — ±400ppm/°C 20Ω ~ 47Ω — ±350ppm/°C	43Ω ~ 10KΩ — ±350ppm/°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	10 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	.47 (R47)	2.7 (2R7)	7.5 (7R5)	39 (39R)	270 (270)	750 (750)	3.9K (3K9)
.15 (R15)	.56 (R56)	3.0 (3R0)	8.2 (8R2)	43 (43R)	300 (300)	820 (820)	4.3K (4K3)
.20 (R20)	.68 (R68)	3.3 (3R3)	10 (10R)	47 (47R)	330 (330)	1.0K (1K0)	4.7K (4K7)
.27 (R27)	.75(R75)	3.9 (3R9)	15 (15R)	56 (56R)	390 (390	1.5K (1K5)	5.6K (5K6)
.30 (R30)	.82 (R82)	4.3 (4R3)	20 (20R)	68 (68R)	430 (430))	2.0K (2K0)	6.8K (6K8)
.33 (R33)	1.0 (1R0)	4.7 (4R7)	27 (27R)	82 (82R)	470 (470)	2.7K (2K7)	7.5K (7K5)
.39 (R39)	1.5 (1R5)	5.6 (5R6)	30 (30R)	150 (150)	560 (560)	3.0K (3K0)	8.2K (8K2)
.43 (R43)	2.0 (2R0)	6.8 (6R8)	33 (33R)	200 (200)	680 (680)	3.3K (3K3)	10K (10K)

Resistance Range (Ω)	Digi-Key Part No.*	Pricing 1	100	300
.30 ~ 39	TWW3J(Code)-ND	.26	21.60	62.40
.39 ~ 2.7	TWW5J(Code)-ND	.23	18.90	54.60
43 ~ 8.2K	TWM3J(Code)-ND	.23	18.90	54.60
82 ~ 10K	TWM5J(Code)-ND	.23	18.90	54.60
RoHS Compliant				
.10 ~ 8.2	TWW3J(Code)E-ND	.50	45.13	114.00
.10 ~ 47	TWW5J(Code)E-ND	.53	48.69	121.13
430 ~ 8.2K	TWM3J(Code)E-ND	.48	45.13	114.00
390 ~ 3.3K	TWM5J(Code)E-ND	.50	46.13	114.75

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

AW, AX, AY Series — Ceramic Composition Resistors

The "A" Series of non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. Designed for use in motor drives, UPS and other power conversion systems, these resistors are ideal for any application which is subject to surges, high peak power, impulse energy or inrush current limiting. **Material Specifications:** • Resistance Element: Bulk Ceramic • Terminals: Solder coated radial leads (axial lead version available upon request) • Coating: UL94V0, solvent resistant epoxy **Electrical Specifications:** • Tolerance: ±10% Standard • Derating: Derates linearly from 100% @ 50°C ~ 0% @ 150°C • Temperature Rise: 100°C @ 100% rated power, 50°C ambient

RESISTANCE VALUE CHART

AW Series	AX Series	AY Series	
Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220) 100 (101)	1.0 (10G) 22 (220)◊ 100 (101)	2.2 (22G) 4.7 (47G) 10 (100) 22 (220)	47 (470) 100 (101)

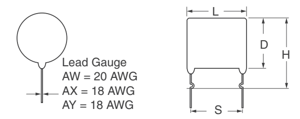

Resistance Range (Ω)	Wattage	Dimensions - Inch (mm) L - maximum	D - maximum	H - maximum	S - normal	Digi-Key Part No.*	Price Each 1	50	250
4.7	4.5	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)	AY47GK-ND	12.15	11.54	10.94
RoHS Compliant									
22 - 100	2.5	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)	AW(Code)KE-ND	11.06	10.51	9.62
1.0 - 100	3.5	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)	AX(Code)KE-ND	12.11	11.51	10.90
2.2 - 100	4.5	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)	AY(Code)KE-ND	12.77	12.12	11.50

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Metal Oxide / Epoxy Coated Resistors — "Mini-Mox" Precision Thick Film Axial Resistors

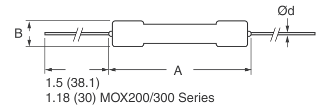

Applications:

• Avionics • Medical Electronics • High Gain Feedback Applications • Current Pulse Limiters • Vacuum and Space Application

Material:

• Resistor: Metal Oxide • Coating: Epoxy • Core: Alumina • Terminals: Solder-Coated Axial Lead

Series	Voltage Rating	Dimensions — Inches (mm) A	B	ød
MOX-200	500V	0.26 (6.5)	0.09 (2.2)	0.02 (0.6)
MOX-300	1000V	0.35 (9)	0.13 (3.3)	0.03 (0.65)
MOX-400-23	2500V	0.580 (14.78)	0.165 (4.19)	0.02 (0.6)
MOX-750-23	5000V	0.880 (22.35)	0.165 (4.19)	0.02 (0.6)
MOX1125-23	7500V	1.270 (32.26)	0.165 (4.19)	0.02 (0.6)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	50	100
10M 100M 1,000M	±1%	.25	MOX200F-10ME-ND	2.66	2.31	1.85	1.22
	±1%	.25	MOX200F-100ME-ND	5.51	4.78	2.98	2.25
	±1%	.25	MOX200F-1000ME-ND	23.33	20.22	12.44	8.88
	±5%	.25	MOX200J-10ME-ND	2.18	1.89	1.62	1.16
	±5%	.25	MOX200J-100ME-ND	2.18	1.89	1.19	1.06
	±5%	.25	MOX200J-1000ME-ND	6.98	6.05	3.72	3.24
	±1%	.50	MOX300F-10ME-ND	5.36	3.84	2.76	2.14
	±1%	.50	MOX300F-100ME-ND	6.49	4.87	3.50	2.45
	±1%	.50	MOX300F-1000ME-ND	24.49	14.17	10.80	9.33
	±5%	.50	MOX300J-10ME-ND	4.35	3.11	2.25	1.75
	±5%	.50	MOX300J-100ME-ND	4.35	3.04	2.20	1.75
	±5%	.50	MOX300J-1000ME-ND	7.31	4.29	3.51	3.41
	±1%	.75	MOX400F-(Value)E-ND	7.88	4.55	3.54	2.93
	±5%	.75	MOX400J-(Value)E-ND‡	5.06	3.15	2.37	1.86
	±1%	1.0	MOX750F-(Value)E-ND	9.00	5.21	4.12	3.86
	±5%	1.0	MOX750J-(Value)E-ND	5.59	3.42	2.47	1.95
	±1%	1.5	MOX1125F-(Value)E-ND†	9.64	5.02	4.23	3.65
	±5%	1.5	MOX1125J-(Value)E-ND‡	7.76	4.39	3.28	2.94

* For complete part number, substitute the corresponding Value from the Resistance Value column.
‡ Not available in 10M † Not available in 1,000M

Vitreous Enamel Power Resistors — 25, 50, 100, and 225 Watt

210 Series — Adjustable with Tabs
D25K, D50K, D100K, D225K

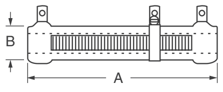

270 Series — Fixed with Tabs
L25J, L50J, L100J, L225J

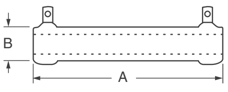

	L25J/ D25K	L50J/ D50K	L100J/ D100K	L225J/ D225K
Max. Voltage	625	1625	2845	4595
Overload	10 times rated wattage for 5 seconds			
DWV	1000VAC	1000VAC	1000VAC	3000VAC
Length A	2” (50.8mm)	4” (101.6mm)	6.5” (165.1mm)	10.5” (266.7mm)
Diameter B	.562” (14.3mm)	.562” (14.3mm)	.750” (19.1mm)	1.125” (28.6mm)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	25 (25R)	500 (500)	3.5K (3K5)	20.0K (20K)
2.0 (2R0)	50 (50R)	750 (750)	4.0K (4K0)	25.0K (25K)
3.0 (3R0)	75 (75R)	1.0K (1K0)	5.0K (5K0)	30.0K (30K)
4.0 (4R0)	100 (100)	1.5K (1K5)	7.5K (7K5)	50.0K (50K)
5.0 (5R0)	150 (150)	2.0K (2K0)	10.0K (10K)	100K (100K)
10 (10R)	200 (200)	2.5K (2K5)	12.0K (12K)	250K (250K)
15 (15R)	250 (250)	3.0K (3K0)	15.0K (15K)	

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	50	100
1.0	25	L25J1R0-ND	5.98	5.09	—	4.19
5.0	25	L25J5R0-ND	6.17	5.23	—	4.32
15, 50, 75, 150, 250	25	L25J(Code)-ND	5.88	3.99	—	3.30
200	25	L25J200-ND	5.88	4.99	—	4.12
1.5K, 2.0K, 3.0K,	25	L25J(Code)-ND	6.16	5.22	—	4.31
12.0K	25	L25J12K-ND	7.38	6.71	—	6.04
15K	25	L25J15K-ND	7.46	6.33	—	5.21
20K	25	L25J20K-ND	7.46	6.33	—	5.21
4.0	50	L50J4R0-ND	8.67	7.36	—	6.06
200, 250	50	L50J(Code)-ND	8.48	7.20	—	5.94
1.5K, 2.0K, 2.5K	50	L50J(Code)-ND	8.41	7.15	—	5.89
10K, 15K, 20K	50	L50J(Code)-ND	8.98	7.63	—	6.28
50K	50	L50J50K-ND	12.73	10.82	—	8.91
100K	50	L50J100K-ND	13.01	11.05	—	9.09
250K	50	L50J250K-ND	14.63	12.42	—	10.24
25, 75	100	L100J(Code)-ND	11.58	9.83	—	8.69
150, 500, 750	100	L100J(Code)-ND	11.31	9.61	—	8.48
2.0K, 2.5K,	100	L100J(Code)-ND	10.87	9.24	—	8.16
10.0K	100	L100J10K-ND	11.22	9.53	—	8.41
50.0K	100	L100J50K-ND	13.89	11.80	—	10.42
2.0	225	L225J2R0-ND	25.97	23.37	—	20.78
4.0	225	L225J4R0-ND	20.88	18.80	—	16.71
25, 75	225	L225J(Code)-ND	18.13	16.32	—	14.50
150, 750	225	L225J(Code)-ND	17.29	15.58	—	13.83
1.5K, 2.0K, 2.5K, 5.0K	225	L225J(Code)-ND	16.71	15.04	—	13.36
10K	225	L225J10K-ND	17.35	15.62	—	13.89
50K	225	L225J50K-ND	19.28	17.35	—	15.42
100K	225	L225J100K-ND	20.32	18.27	—	16.24
		RoHS Compliant				
1.0	25	L25J1R0E-ND	5.49	4.67	—	3.84
2.0, 3.0	25	L25J(Code)E-ND	5.66	4.80	—	3.96
4.0, 5.0	25	L25J(Code)E-ND	5.66	4.80	—	3.96
10, 25, 100, 500, 750	25	L25J(Code)E-ND	5.37	4.56	—	3.76
15, 50, 75, 150, 250	25	L25J(Code)E-ND	5.39	4.58	—	3.78
1.0K, 2.5K	25	L25J(Code)E-ND	5.65	4.79	—	3.95
1.5K, 2.0K, 3.0K, 3.5K	25	L25J(Code)E-ND	5.65	4.79	—	3.95
4.0K, 5.0K	25	L25J(Code)E-ND	5.71	4.85	—	4.00
7.5K	25	L25J7K5E-ND	5.71	4.86	—	3.99
15K, 20K	25	L25J(Code)E-ND	6.84	5.81	—	4.78
100K	25	L25J100KE-ND	7.84	6.66	—	5.48
10.0K	25	L25J10KE-ND	6.84	5.81	—	4.78
25.0K	25	L25J25KE-ND	6.84	5.82	—	4.80
50.0K	25	L25J50KE-ND	7.36	6.27	—	5.16
1.0	25	D25K1R0E-ND	11.23	9.55	—	7.86
3.0, 5.0, 10, 25, 50, 250, 500	25	D25K(Code)E-ND	9.55	8.11	—	6.69
1.0	50	L50J1R0E-ND	8.47	7.21	—	5.94
2.0, 3.0, 5.0	50	L50J(Code)E-ND	7.95	6.76	—	5.57
10, 25, 50, 100, 500	50	L50J(Code)E-ND	7.78	6.61	—	5.45
75, 150, 200, 250, 750	50	L50J(Code)E-ND	7.78	6.61	—	5.45
1.5K, 2.0K, 2.5K, 3.0K, 7.5K	50	L50J(Code)E-ND	7.72	6.56	—	5.40
10K, 20K	50	L50J(Code)E-ND	8.24	7.00	—	5.76
50K	50	L50J50KE-ND	11.68	9.93	—	8.17
100K	50	L50J100KE-ND	11.94	10.14	—	8.34
250K	50	L50J250KE-ND	13.42	11.39	—	9.39
1.0K, 5.0K	50	L50J(Code)E-ND	7.72	6.56	—	5.40
1.0, 3.0	50	D50K(Code)E-ND	15.96	13.58	—	11.18
10, 25, 50	50	D50K(Code)E-ND	13.66	11.62	—	9.57
100, 500	50	D50K(Code)E-ND	13.66	11.62	—	9.57
1.0K	50	D50K1K0E-ND	14.28	12.14	—	10.00
1.0, 2.0	100	L100J(Code)E-ND	11.65	9.91	—	8.74
3.0	100	L100J3R0E-ND	11.21	9.53	—	8.41
5.0	100	L100J5R0E-ND	11.21	9.53	—	8.41
10, 50	100	L100J(Code)E-ND	10.62	9.02	—	7.97
25, 75	100	L100J(Code)E-ND	10.62	9.02	—	7.97
100, 250	100	L100J(Code)E-ND	10.38	8.82	—	7.78
150, 500	100	L100J(Code)E-ND	10.38	8.82	—	7.78

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	50	100
1.0K	100	L100J1K0E-ND	9.97	8.48	—	7.49
2.0K, 5.0K	100	L100J(Code)E-ND	9.97	8.48	—	7.49
10K, 20K	100	L100J(Code)E-ND	10.29	8.74	—	7.72
50K	100	L100J50KE-ND	12.74	10.83	—	9.56
100K	100	L100J100KE-ND	15.14	12.88	—	11.36
1.0	100	D100K1R0E-ND	19.72	19.24	—	17.11
2.0,10	100	D100K(Code)E-ND	19.21	17.28	—	15.36
50, 100, 250	100	D100K(Code)E-ND	17.25	15.54	—	13.80
1.0K	100	D100K1K0E-ND	18.71	16.85	—	15.00
2.0	225	L225J2R0E-ND	23.83	21.44	—	19.06
3.0, 5.0	225	L225J(Code)E-ND	19.16	17.25	—	15.33
4.0	225	L225J4R0E-ND	19.16	17.25	—	15.33
10, 50, 100	225	L225J(Code)E-ND	16.63	14.97	—	13.30
25, 75	225	L225J(Code)E-ND	16.63	14.97	—	13.30
150	225	L225J150E-ND	15.86	14.29	—	12.69
250, 500	225	L225J(Code)E-ND	15.86	14.29	—	12.69
1.0K	225	L225J1K0E-ND	15.33	13.80	—	12.26
1.5K, 2.0K, 2.5K, 3.0K, 5.0K	225	L225J(Code)E-ND	15.33	13.80	—	12.26
10K, 25K, 30K	225	L225J(Code)E-ND	15.92	14.33	—	12.74
100K	225	L225J100KE-ND	18.64	16.76	—	14.90
1.0	225	D225K1R0E-ND	40.75	36.67	32.59	—
2.0, 3.0	225	D225K(Code)E-ND	34.56	31.12	27.65	—
5.0	225	D225K5R0E-ND	31.19	28.07	24.95	—
10, 25, 50	225	D225K(Code)E-ND	27.77	24.99	22.21	—
100, 250, 500, 1.0K	225	D225K(Code)E-ND	23.45	21.10	18.77	—

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Hardware

RoHS COMPLIANT

Description	Wattage	Digi-Key Part No.	Price Each 1	10	50
Mounting Bracket	25, 50	9E-100-ND	1.74/2	.59	—
Mounting Bracket Spring Steel	25, 50, 75	9S-10-ND	6.20/2	2.07	—
Mounting Bracket	100	12-100E-ND	3.78/2	1.26	—
Mounting Bracket	225	18E-100-ND	3.97/2	1.33	—
Metal Centering Washer	25, 50, 75	6000E-ND	1.46/2	.49	—
Metal Centering Washer	100	6001E-ND	1.77/2	.59	—
Slotted Mounting Bracket‡	25	6101-2-ND	7.36	6.25	5.13
Slotted Mounting Bracket‡	50	6101-4-ND	7.94	6.75	5.57
Slotted Mounting Bracket‡	100	6104-61-2-ND	9.69	8.24	6.78
Slotted Mounting Bracket‡	100	6104-61-2E-ND	8.89	7.56	6.23
Slotted Mounting Bracket‡	175	6110-81-2-ND	11.40	9.68	7.98
Slotted Mounting Bracket‡	175	6110-81-2E-ND	10.46	8.88	7.32
Slotted Mounting Bracket‡	225	6110-101-2-ND	14.95	12.71	10.47
Slotted Mounting Bracket‡	225	6110-101-2E-ND	13.71	11.66	9.61
Elongated Mounting Bracket‡	12	6120D-13-4-ND	5.60	4.75	3.92
Elongated Mounting Bracket‡	25	6120K-2-ND	7.36	6.25	5.13
Elongated Mounting Bracket‡	175	6126P-81-2-ND	13.68	11.61	9.58
Elongated Mounting Bracket‡	175	6127P-81-2-ND	18.74	15.93	13.11
Elongated Mounting Bracket‡	175	6128P-81-2-ND	24.28	20.63	16.99
Thru-Bolt	50	7PA50-ND	5.82	4.94	4.06
Thru-Bolt	100	7PA100-ND	6.99	5.94	4.88
Thru-Bolt	175	7PA160-ND	11.70	9.94	8.19
Thru-Bolt	225	7PA200-ND	12.08	10.26	8.44
Thru-Bolt	225	7PA200E-ND	11.08	9.41	7.75

‡ Includes 2 each of brackets, bolts, washers (centering, mica, lock) and nut.

Stacked Resistor Mounting Hardware

RoHS COMPLIANT

Thru Bolts Mounting Brackets for 280, 210 and 270 Series

Includes 2 each of brackets, bolts, washers (centering, mica, lock) and nut.

Description	No. of Resistors	Digi-Key Part No.	Price Each 1	10	50	100
Mounting Bracket	1	6126-P-8 1-2E-ND	12.55	10.66	8.79	8.48
Mounting Bracket	2	6127-P-8 1-2E-ND	17.20	14.62	12.03	11.63
Mounting Bracket	3	6128-P-8 1-2E-ND	22.27	18.93	15.58	15.03
Mounting Bracket	4	6129-P-8 1-2E-ND	29.02	24.68	20.30	19.58

OHMITE Vitreous Enamel Power Resistors — 8, 12 and 20 Watt

Dimensions in inches (mm)

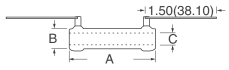

	B8J	B12J	B20
Maximum Voltage	250	625	750
Overload	10 times rated wattage for 5 seconds		
Dimension A	1.000" (25.40mm)	1.750" (44.45mm)	2.000" (50.80mm)
Dimension B	0.313" (7.94mm)	0.313" (7.94mm)	0.438" (11.11mm)
Dimension C	0.188" (4.76mm)	0.188" (4.76mm)	0.250" (6.35mm)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	50 (50R)	1.2K (1K2)	7.0K (7K0)	100K (100K)
2.0 (2R0)	75 (75R)	1.25K (1K25)	7.5K (7K5)	
3.0 (3R0)	100 (100)	1.5K (1K5)	8.0K (8K0)	
5.0 (5R0)	125 (125)	2.0K (2K0)	9.0K (9K0)	
7.5 (7R5)	150 (150)	2.5K (2K5)	10.0K (10K)	
10 (10R)	200 (200)	3.0K (3K0)◊	12.5K (12K)	
15 (15R)	250 (250)	3.5K (3K5)	15.0K (15K)	
20 (20R)	300 (300)	4.0K (4K0)‡	20.0K (20K)	
25 (25R)	500 (500)	4.5K (4K5)‡	25.0K (25K)	
35 (35R)	600 (600)	5.0K (5K0)	40.0K (40K)	
40 (40R)	1.0K (1K0)	6.0K (6K0)†	50.0K (50K)	

◊ Not available in RoHS Compliant
† Not available in 12 Watt ‡ Not available in 8 Watt RoHS Compliant

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	100	250
15.0K	8	B8J15K-ND	3.66	3.31	2.92	2.57
35 ~ 250	12	B12J(Code)-ND	3.68	3.29	2.87	—
3.0K, 4.0K	12	B12J(Code)-ND	3.78	3.44	3.10	—
1.0, 2.0, 5.0, 10, 25, 50	20	B20J(Code)-ND	4.50	4.05	3.61	3.15
100, 250, 1.0K, 1.5K, 2.0K	20	B20J(Code)-ND	4.16	3.75	3.34	2.91
3.0K	20	B20J3K0-ND	4.37	3.92	3.50	3.06
5.0K, 10K	20	B20J(Code)-ND	4.71	4.19	3.77	3.30
20K, 25K	20	B20J(Code)-ND	5.21	4.83	4.17	3.65
50K	20	B20J50K-ND	5.42	4.89	4.34	3.79

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	100	250
RoHS Compliant						
1.0	8	B8J1R0E-ND	2.62	2.47	2.10	2.04
7.5	8	B8J7R5E-ND	3.40	3.06	2.73	2.39
20, 35	8	B8J(Code)E-ND	3.27	2.95	2.62	2.30
300	8	B8J300E-ND	3.27	2.95	2.62	2.30
2.0K ~ 6.0K	8	B8J(Code)E-ND	3.10	2.81	2.49	2.17
10.0K	8	B8J10KE-ND	3.36	3.04	2.68	2.36
15.0K	8	B8J15KE-ND	3.36	3.03	2.68	2.36
3.0 ~ 7.5	12	B12J(Code)E-ND	3.27	2.95	2.62	2.29
10 ~ 35, 50 ~ 100, 150 ~ 250	12	B12J(Code)E-ND	2.90	2.61	2.33	2.03
40	12	B12J40RE-ND	2.90	2.61	2.33	2.03
500	12	B12J500E-ND	2.90	2.61	2.33	2.03
1.0K, 1.25K, 1.5K	12	B12J(Code)E-ND	3.15	2.83	2.53	2.21
2.0K ~ 3.5K	12	B12J(Code)E-ND	3.23	2.93	2.58	2.27
5.0K, 7.5K	12	B12J(Code)E-ND	3.40	3.06	2.72	2.39
10.0K, 15.0K	12	B12J(Code)E-ND	3.48	3.13	2.79	2.43
20.0K ~ 40.0K	12	B12J(Code)E-ND	3.61	3.24	2.89	2.53
50.0K	12	B12J50KE-ND	4.54	4.10	3.64	3.20
1.0 ~ 5.0, 10, 25, 40, 50	20	B20J(Code)E-ND	4.13	3.71	3.31	2.89
100, 200, 250, 500, 1.0K, 1.5K, 2.0K	20	B20J(Code)E-ND	3.82	3.63	3.45	2.67
10K, 12.5K	20	B20J(Code)E-ND	4.32	3.98	3.46	3.03
15K ~ 25K	20	B20J(Code)E-ND	4.78	4.55	4.31	3.35
50K	20	B20J50KE-ND	4.97	3.63	3.55	3.48
100K	20	B20J100KE-ND	5.06	4.76	4.56	3.94
Mounting Bracket 8W/12W	—	5-100-ND‡		2.18/2	7.28/10	

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).
‡ Requires 2 brackets per resistor

250 Series Vitreous Enamel Power Resistors — 30, 40 and 55 Watt

When limited space is a consideration, choose Ohmite's "thin" stackable 250 Type resistors .These oval-shaped ceramic-core resistors feature a low profile to permit installation in spaces with minimal height. They are also equipped with integral mounting brackets so they can be fastened to a chassis and stacked in locations with limited surface area.

Material:
- Coating: Lead free vitreous enamel
- Core: Ceramic
- Derating: Linearly from 100% @ 15°C ~ 0% @ 350°C

Electrical:
- Tolerance: ±5%
- Overload: 5 times rated wattage for 5 seconds
- Dielectric withstanding voltage: 1000VAC (measured from lug to mounting bracket)

Series	F30	F40	F55
Maximum Voltage	281	655	1405
Dimension L	31.75	50.8	88.9
Dimension A	50.8	69.85	107.95

RESISTANCE VALUE CHART

30W Value (Code)	40W Value (Code)	55W Value (Code)
1.0 (1R0)	1.0 (1R0)	1.0 (1R0)
5.0 (5R0)	5.0 (5R0)	10 (10R)
10 (10R)	10 (10R)	25 (25R0)
15 (15R)	25 (25R)	50 (50R)
25 (25R)	50 (50R)	100 (100)
50 (50R)	100 (100)	250 (250)
75 (75R)	500 (500)	500 (500)
100 (100)	1.0K (1K0)	1.0K (1K0)
	2.0K (2K0)	
	10K (10K)	

Dimensions in mm

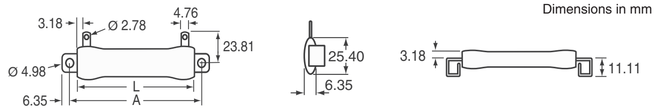

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	50	100	250
1.0 ~ 75	30	F30J(Code)E-ND	6.21	5.58	4.98	4.65
100	30	F30J100E-ND	9.00	8.51	7.19	6.24
1.0 ~ 5.0	40	F40J(Code)E-ND	9.14	5.77	5.12	4.80
10 ~ 2.0K	40	F40J(Code)E-ND	9.11	8.03	7.29	4.78
10K	40	F40J10KE-ND	6.56	5.90	5.23	4.92
1.0	55	F55J1R0E-ND	11.41	7.20	6.40	5.99
10 ~ 50	55	F55J(Code)E-ND	7.32	6.59	5.86	5.49
100 ~ 1.0K	55	F55J(Code)E-ND	10.68	6.73	5.98	5.62

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Wirewound Rheostats — 12.5, 25 and 50 Watt

RESISTANCE VALUE CHARTS

RES Series - 12.5 / RHS Series - 25 Watt

Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	50 (50R)	750 (750)
2.0 (2R0)	75 (75R)	1.0K (1K0)
3.0 (3R0)	100 (100)	1.5K (1K5)
6.0 (6R0)	125 (125)	2.5K (2K5)
8.0 (8R0)	175 (175)	3.5K (3K5)
10 (10R)	250 (250)	5.0K (5K0)
15 (15R)	350 (350)	10.0K (10K)
25 (25R)	500 (500)	

RJS Series - 50 Watt

Value (Code)	Value (Code)	Value (Code)
.50 (R50)	125 (125)	2.5K (2K5)
1.0 (1R0)	150 (150)	5.0K (5K0)
6.0 (6R0)	225 (225)	10.0K (10K)
35 (35R)	500 (500)	
50 (50R)	1.0K (1K0)	

Series	RES	RHS	RJS
Wattage	12.5W	25W	50W
Resistor Tolerance	±10%	±10%	±10%
Core Diameter (mm)	22.23	39.69	58.74
Shaft Diameter (mm)	3.18	6.35	6.35
Running Torque	1 ~ 6 in. oz.	.25 ~ .5 in. lb.	.25 ~ 2 in. lb.
Weight	.6 oz.	.19 lbs.	.32 lbs.
Rotation	300° ±5%	300° ±5%	300° ±5%
Memcor-Truohm Equivalent	RH12	RH25	RH50

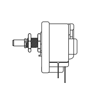

Description	Digi-Key Part No.	Price Each 1	10
Knob for 12.5W Rheostat	5151E-ND	6.16	4.33
Knob for 25/50W Rheostat	5150E-ND	8.51	5.95

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	100	250
1.0 ~ 8.0	RES(Code)E-ND	30.12	27.13	21.09	19.59
10 ~ 350	RES(Code)E-ND	25.97	23.36	16.87	15.59
500 ~ 1.5K	RES(Code)E-ND	26.66	23.99	17.35	16.01
2.5K ~ 5.0K	RES(Code)E-ND	28.37	25.53	18.44	17.05
10.0K	RES10KE-ND	30.64	27.59	19.91	18.40
1.0 ~ 8.0	RHS(Code)E-ND	30.51	27.47	21.37	18.32
10 ~ 750	RHS(Code)E-ND	29.17	26.25	20.41	17.50
1.0K ~ 5.0K	RHS(Code)E-ND	30.17	27.15	21.13	18.12
10.0K	RHS(Code)E-ND	32.73	29.45	22.91	19.63
.50	RJSR50E-ND	46.30	41.66	32.41	27.77
1.0 ~ 6.0	RJS(Code)E-ND	41.34	37.21	28.94	24.82
35 ~ 150	RJS(Code)E-ND	36.18	32.55	25.31	21.71
225 ~ 500	RJS(Code)E-ND	34.75	31.28	24.33	20.86
1.0K ~ 10.0K	RJS(Code)E-ND	37.99	34.20	26.60	22.81

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

High Voltage Resistor — HVR: A multi layer metal film is deposited on a high-grade ceramic body. After a helical groove has been cut in the resistive layer, tinned electrolytic copper wires are welded to the end caps. The resistors are coated with a blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD 202, method 215" and "IEC 60068-2-45."

Features: • Metal film technology • High pulse loading capability

Specifications: • Limiting Voltage: 1,600VDC (HVR25), 3,500VDC (HVR37), 10,000VDC (HVR68 & VR68) • Temperature Coefficient: ±200ppm/°C

HVR25 5% High Voltage, 1,600VDC, Metal Film Resistors — .25 Watt

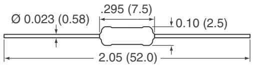

Resistance Value Chart — HVR25 Series

100K	150K	220K	330K	470K	680K	1.0M
110K	160K	240K	360K	510K	750K	
120K	180K	270K	390K	560K	820K	
130K	200K	300K	430K	620K	910K	

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
.25W, High Voltage Metal Film Resistor	100K ~ 1.0M	PPCQJ(Value)CT-ND	.42	2.85	12.83	PPCQJ(Value)TR-ND	29.00/M	27.00/M	HVR250000xxxxxJR500

‡ For complete part number, substitute the corresponding value from Resistor Value Chart.

HVR37 and VR37 5% High Voltage, 3,500VDC, Metal Film Resistors — .50 Watt

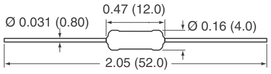

Resistance Value Chart — HVR37 Series

100K	130K	180K	240K	330K	430K	560K	750K	1.0M	1.3M	1.8M	2.4M	3.3M	4.3M	5.6M	7.5M	10M
110K	150K	200K	270K	360K	470K	620K	820K	1.1M	1.5M	2.0M	2.7M	3.6M	4.7M	6.2M	8.2M	
120K	160K	220K	300K	390K	510K	680K	910K	1.2M	1.6M	2.2M	3.0M	3.9M	5.1M	6.8M	9.1M	

Resistance Value Chart — VR37 Series

11M	16M	22M	30M
12M	18M	24M	33M
15M	20M	27M	

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
.50W, High Voltage Metal Film Resistor	100K ~ 30M	PPCHJ(Value)CT-ND	.49	3.31	15.19	PPCHJ(Value)TR-ND	38.00/M	37.00/M	HVR370000xxxxxJR500
.50W, High Voltage Metal Film Resistor	11M ~ 12M, 15M ~ 33M	PPCHHJ(Value)CT-ND	.49	3.31	15.19	PPCHHJ(Value)TR-ND	38.00/M	37.00/M	VR3700000xxxxJR500

‡ For complete part number, substitute the corresponding value from Resistor Value Chart.

VR68 5% High Voltage, 10,000VDC, Metal Film Resistors — 1 Watt

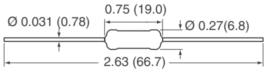

Resistance Value Chart — VR68 Series

100K	220K	430K	1.2M	2.7M	5.6M	22M	56M
150K	270K	470K	2.0M	4.7M	10M	33M	68M
200K	330K	1.0M	2.2M	5.1M	18M	47M	

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	Digi-Key Part No.‡	Tape and Box Pricing 500	1,000	2,500	Vishay Part No.
1W, High Voltage Metal Film Fixed Resistor	100K ~ 68M	VR68J(Value)CT-ND	1.26	8.93	VR68J(Value)TB-ND	143.23	231.69	224.11/M	VR6800000xxxxJAC00

‡ For complete part number, substitute the corresponding value from Resistor Value Chart.

HVR25 1% High Voltage, 1,600VDC, Metal Film Resistors — .25 Watt

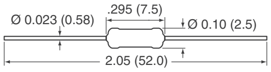

Resistance Value Chart — HVR25 Series

100K	113K	124K	140K	158K	174K	191K	215K	237K	261K	287K	316K	348K	383K	422K	464K	510K	560K	619K	680K	750K	825K	910K
102K	115K	127K	143K	160K	178K	196K	220K	240K	267K	294K	324K	357K	390K	430K	470K	511K	562K	620K	681K	768K	845K	931K
105K	118K	130K	147K	162K	180K	200K	221K	243K	270K	300K	330K	360K	392K	432K	475K	523K	576K	634K	698K	787K	866K	953K
107K	120K	133K	150K	165K	182K	205K	226K	249K	274K	301K	332K	365K	402K	442K	487K	536K	590K	649K	715K	806K	887K	976K
110K	121K	137K	154K	169K	187K	210K	232K	255K	280K	309K	340K	374K	412K	453K	499K	549K	604K	665K	732K	820K	909K	1.0M

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
.25W, High Voltage Metal Film Resistor	100K ~ 1.0M	PPCQF(Value)CT-ND	.53	3.61	16.59	PPCQF(Value)TR-ND	42.00/M	40.00/M	HVR250000xxxxxFR500

‡ For complete part number, substitute the corresponding value from Resistor Value Chart.

HVR37 1% High Voltage, 3,500VDC, Metal Film Resistors — .50 Watt

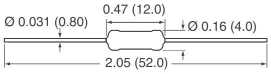

Resistance Value Chart — HVR37 Series

100K	127K	162K	205K	255K	316K	390K	475K	590K	732K	910K	1.18M	1.50M	1.87M	2.37M	2.94M	3.60M	4.42M	5.49M	6.80M	8.45M
102K	130K	165K	210K	261K	324K	392K	487K	604K	750K	931K	1.20M	1.54M	1.91M	2.40M	3.00M	3.65M	4.53M	5.60M	6.81M	8.66M
105K	133K	169K	215K	267K	330K	402K	499K	619K	768K	953K	1.21M	1.58M	1.96M	2.43M	3.01M	3.74M	4.64M	5.62M	6.98M	8.87M
107K	137K	174K	220K	270K	332K	412K	510K	620K	787K	976K	1.24M	1.60M	2.00M	2.49M	3.09M	3.83M	4.70M	5.76M	7.15M	9.09M
110K	140K	178K	221K	274K	340K	422K	511K	634K	806K	1.00M	1.27M	1.62M	2.05M	2.55M	3.16M	3.90M	4.75M	5.90M	7.32M	9.10M
113K	143K	180K	226K	280K	348K	430K	523K	649K	820K	1.02M	1.30M	1.65M	2.10M	2.61M	3.24M	3.92M	4.87M	6.04M	7.50M	9.31M
115K	147K	182K	232K	287K	357K	432K	536K	665K	825K	1.05M	1.33M	1.69M	2.15M	2.67M	3.30M	4.02M	4.99M	6.19M	7.68M	9.53M
118K	150K	187K	237K	294K	360K	442K	549K	680K	845K	1.07M	1.37M	1.74M	2.20M	2.70M	3.32M	4.12M	5.10M	6.20M	7.87M	9.76M
120K	154K	191K	240K	300K	365K	453K	560K	681K	866K	1.10M	1.40M	1.78M	2.21M	2.74M	3.40M	4.22M	5.11M	6.34M	8.06M	10M
121K	158K	196K	243K	301K	374K	464K	562K	698K	887K	1.13M	1.43M	1.80M	2.26M	2.80M	3.48M	4.30M	5.23M	6.49M	8.20M	
124K	160K	200K	249K	309K	383K	470K	576K	715K	909K	1.15M	1.47M	1.82M	2.32M	2.87M	3.57M	4.32M	5.36M	6.65M	8.25M	

Description	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
.50W, High Voltage Metal Film Resistor	100K ~ 1.20M	PPCHF(Value)CT-ND	.67	4.53	20.81	PPCHF(Value)TR-ND	53.00/M	50.00/M	HVR370000xxxxxFR500
.50W, High Voltage Metal Film Resistor	1.21M ~ 10M	PPCHF(Value)CT-ND	.68	4.66	21.38	PPCHF(Value)TR-ND	54.00/M	52.00/M	HVR370000xxxxxFR500

‡ For complete part number, substitute the corresponding value from Resistor Value Chart.

SFR25 Type 1% Metal Film Resistors — .40 Watt 5043ED Series

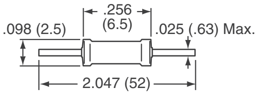

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light green, lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:

- **Resistance Tolerance:** ±1%
- **Temperature Coefficient:** R≤1MΩ = ±100 ppm/°C, R>1MΩ = ±250ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.40W
- **Thermal Resistance, R_{TH}:** 200K/W
- **Maximum Continuous Operating Voltage:** 250V (DC or RMS)
- **Noise R ≤ 1 MΩ:** Maximum 0.1 μV/V
- **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0◆	46.4	118	280	619	1.24K	2.43K	4.64K	8.06K◆	16.9K	34.8K	68.1K	200K◆	432K	1.58M◆
10.2	47.5	121◆	294◆	649	1.27K	2.49K◆	4.75K◆	8.25K◆	17.4K	35.7K	71.5K	210K	442K	1.60M
11.0	49.9	124◆	301◆	665	1.30K	2.55K	4.87K	9.09K◆	18.2K◆	36.0K	75.0K	221K◆	464K	1.62M
11.3	51.1	127	324	681◆	1.33K◆	2.67K	4.99K◆	9.53K	18.7K	37.4K	78.7K	226K	475K◆	1.65M
11.5	53.6	133	332◆	698	1.40K	2.74K◆	5.10K◆	9.76K	19.6K	38.3K	82.5K	232K	499K	1.78M
13.0	56.2	140	340	715	1.43K	2.87K	5.11K	10.0K◆	20.0K◆	39.2K	86.6K	243K◆	511K	1.80M
15.0	57.6◆	150◆	348◆	750◆	1.47K	2.94K	5.23K	10.2K	20.5K◆	40.2K◆	88.7K	249K◆	562K	1.82M
18.2◆	60.4◆	158◆	374◆	768◆	1.50K◆	3.01K◆	5.36K	10.7K	21.5K	41.2K	90.9K	255K	604K	1.96M
19.1	61.9	169	392◆	787	1.54K	3.09K	5.49K	11.0K	22.1K◆	42.2K	97.6K	270K	619K	2.00M◆
20.0◆	62.0	178	402◆	806	1.58K	3.16K	5.60K	11.3K	24.3K	43.2K	100K◆	274K	634K	
21.5	63.4	182◆	422	825	1.62K	3.24K◆	5.62K	11.5K	24.9K◆	45.3K	110K	280K	681K	
22.1◆	68.1◆	196◆	430	845	1.69K	3.32K◆	5.90K	11.8K	25.5K	46.4K	120K	294K	715K	
23.2	69.8	200◆	432	866	1.74K	3.48K	6.04K◆	12.1K◆	26.1K	47.5K◆	121K	301K	750K◆	
24.3	75.0◆	205	442	909◆	1.78K	3.57K	6.19K	12.4K	26.7K	49.9K◆	124K	309K	1.00M◆	
24.9	80.6	210	453	931	1.82K◆	3.65K◆	6.34K	12.7K	27.4K	51.1K◆	127K	324K	1.05M	
26.1	82.0	220◆	475◆	953	1.87K	3.74K	6.49K	13.0K	28.7K	53.6K	130K	332K◆	1.10M	
27.4	82.5	221◆	487	1.00K◆	1.91K	3.83K	6.65K	13.3K	29.4K	54.9K	140K	340K	1.15M	
33.2◆	88.7	232	499◆	1.05K	2.00K◆	3.92K	6.81K	13.7K	30.1K◆	56.0K	150K◆	348K	1.21M◆	
34.8	90.9	237	511◆	1.07K	2.10K	4.02K◆	6.98K	14.0K	30.9K	56.2K	165K	365K	1.30M	
36.5	95.3	243◆	536	1.10K◆	2.15K	4.22K	7.15K	14.3K◆	31.6K	60.4K	169K	374K	1.43M	
39.2	100◆	249◆	562	1.15K◆	2.21K◆	4.32K	7.32K	15.0K◆	32.4K	61.9K	182K	392K◆	1.47M	
40.2	105	267◆	590	1.18K	2.32K	4.42K	7.50K◆	15.8K	33.2K	63.4K	191K	402K	1.50M◆	
43.2	110	274	604◆	1.21K◆	2.37K	4.53K	7.68K	16.2K	34.0K◆	64.9K	196K	422K	1.54M	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel Pricing		Vishay Part No.
			1	10	100		5,000	10,000	
.40 Watt, 1% Metal Film Resistor	10.0 ~ 2.00M	PPC(Value)YCT-ND	.18	1.26	5.25	PPC(Value)YTR-ND	11.00/M	10.00/M	SFR250000xxxxFR500

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

SFR16S Type 1% Metal Film Resistors — .50 Watt 5033ED Series

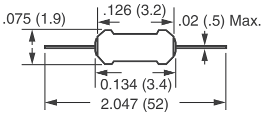

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** R≤ 200KΩ = ±100ppm/°C, R> 200KΩ = ±250ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.50W • **Thermal Resistance, R_{TH}:** 170K/W • **Maximum Continuous Operating Voltage:** 200V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0◆	47.5◆	100◆	301◆	590◆	1.05K◆	2.49K◆	4.99K◆	10.0K◆	18.2K◆	36.5K◆	75.0K	191K	549K
10.7	48.7	121◆	309	604◆	1.21K◆	2.55K	5.11K◆	10.2K	18.7K	39.2K◆	82.5K	200K◆	562K
20.0◆	49.9◆	124◆	324	665	1.24K	2.74K◆	5.23K◆	11.0K	20.0K◆	40.2K◆	90.9K	220K◆	634K
22.1◆	51.1◆	147	332◆	681◆	1.30K◆	2.80K	5.36K	12.1K	20.5K	41.2K	100K◆	221K◆	681K
22.6	54.9	150◆	365	698	1.50K◆	3.01K◆	5.62K◆	12.4K	22.1K◆	43.2K◆	105K	249K	806K
26.1	57.6	158	383◆	715	1.58K	3.09K◆	5.90K	12.7K	23.7K	47.5K◆	110K	294K	820K
27.4	60.4◆	162◆	390◆	750◆	1.65K◆	3.24K	6.49K◆	13.0K◆	24.3K◆	48.7K◆	115K	301K	931K
28.0◆	63.4	191◆	392◆	787	1.69K	3.32K◆	6.81K◆	13.3K	24.9K◆	49.9K◆	121K	324K	1.00M◆
30.1◆	64.9	200◆	402◆	806	1.82K◆	3.65K	6.98K	14.0K	25.5K◆	51.1K◆	124K	332K◆	1.02M
33.2	68.1◆	221◆	432◆	825◆	1.96K	3.83K◆	7.50K	14.7K	26.7K◆	54.9K	150K◆	348K	1.07M
35.7	75.0◆	226	475◆	866	2.00K◆	3.92K◆	8.20K◆	15.0K◆	28.0K	56.2K◆	154K	402K	1.10M
37.4	76.8	249◆	499◆	909	2.21K◆	4.02K◆	8.25K◆	15.8K	30.1K◆	60.4K◆	158K	412K	1.21M◆
38.3	82.5	267	511◆	953	2.26K	4.32K	9.09K◆	16.2K	32.4K	68.1K	165K	432K	1.82M
39.2	90.9	274◆	549◆	1.00K◆	2.37K	4.53K	9.53K	16.9K	33.2K◆	69.8K	169K	475K◆	2.00M◆
41.2◆	93.1◆	280◆	562◆	1.02K	2.43K◆	4.75K◆	9.76K	17.8K◆	35.7K	73.2K	182K	499K◆	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel Pricing		Vishay Part No.
			1	10	100		5,000	10,000	
.50 Watt, 1% Metal Film Resistor	10.0 ~ 2.00M	PPC(Value)XCT-ND	.23	1.58	6.56	PPC(Value)XTR-ND	14.00/M	12.00/M	SFR16S000xxxxFR500

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

MRS25 Type 1% Metal Film Resistors — .60 Watt 5053MC Series

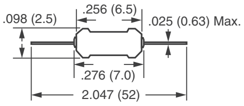

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a green, non-flammable lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±50 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.60W • **Thermal Resistance, R_{TH}:** 150K/W • **Maximum Continuous Operating Voltage:** 350V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0◆	44.2	110◆	243	475◆	1.10K	2.67K	5.49K	12.1K◆	28.0K	78.7K	294K	750K
10.7	46.4	121◆	249◆	499◆	1.21K	2.74K◆	5.90K	12.4K	30.1K	82.5K◆	301K◆	787K
12.4◆	47.5	130◆	255	511	1.24K	2.94K	6.04K	13.0K	34.0K◆	90.9K	316K	806K
13.3	49.9◆	137	267	549	1.30K	3.01K◆	6.19K	14.0K◆	39.2K	100K◆	324K	825K◆
14.0	51.1	140	274	562◆	1.40K◆	3.16K	6.49K	14.3K	40.2K◆	121K	332K	931K
15.0	54.9	143	280	576	1.50K◆	3.32K◆	6.81K◆	15.0K◆	41.2K	150K◆	348K	976K
18.2	56.2	150	301	604◆	1.58K	3.40K	6.98K	16.9K	43.2K	162K	374K	1.10M◆
20.0	60.4	154	316	619	1.62K	3.74K	7.15K	17.4K	44.2K	165K◆	392K	1.20M
22.1◆	61.9	165	324	665	1.65K	3.92K	7.50K	18.2K◆	47.5K◆	182K	442K	1.50M◆
23.7	71.5	169	332◆	681	1.69K	4.02K	7.68K	18.7K◆	48.7K	200K◆	475K	1.80M◆
24.9◆	75.0	178	365	750◆	1.82K	4.22K	8.25K	19.1K	49.9K◆	221K◆	499K◆	2.00M◆
27.4	78.7	182	392◆	768◆	2.00K◆	4.32K	8.66K	20.0K◆	51.1K	226K	511K◆	2.20M◆
30.9	82.5	191	402	825◆	2.21K◆	4.64K	9.09K	21.0K	56.2K◆	243K	576K	
33.2	90.9	200◆	422	909	2.26K	4.75K◆	9.76K	22.1K◆	66.5K◆	249K◆	619K	
35.7	93.1	210	432	931	2.32K	4.99K◆	10.0K◆	24.9K◆	68.1K◆	255K	649K	
38.3	100◆	215	442	953	2.43K◆	5.11K◆	10.2K	26.7K	75.0K◆	267K	665K	
42.2	102	221◆	464	1.00K◆	2.49K◆	5.36K	11.3K	27.4K◆	76.8K	280K	681K◆	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel Pricing		Vishay Part No.
			1	10	100		5,000	10,000	
.60 Watt, 1% Metal Film Resistor	10.0 ~ 2.20M	PPC(Value)ZCT-ND	.26	1.79	7.44	PPC(Value)ZTR-ND	16.00/M	14.00/M	MRS25000CxxxxxFRP00

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

PR01 Type 5% Power Metal Film Resistors — 1 Watt 5073NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 1.0W
- **Thermal Resistance, R_{TH}:** 135K/W
- **Maximum Continuous Operating Voltage:** 350V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

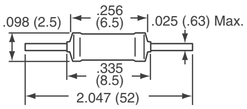

Standard Resistor Values

1.0◆	3.3	10◆	33◆	100◆	330◆	1.0K◆	3.3K◆	10K◆	43K	180K	750K
1.1	3.6	11	36	110	360◆	1.1K◆	3.6K◆	12K◆	47K◆	200K◆	820K
1.2◆	3.9◆	12◆	39◆	120◆	390◆	1.2K◆	3.9K	15K◆	51K◆	220K◆	1.0M◆
1.3	4.3	13◆	43	130◆	430	1.3K◆	4.3K	16K	56K◆	240K◆	
1.5◆	4.7◆	15◆	47◆	150◆	470	1.5K	4.7K◆	18K	62K◆	270K	
1.6	5.1◆	16	51◆	160◆	510◆	1.6K	5.1K◆	20K◆	68K◆	300K	
1.8	5.6◆	18	56◆	180◆	560◆	1.8K◆	5.6K◆	22K◆	82K	330K◆	
2.0	6.2	20◆	62◆	200◆	620◆	2.0K◆	6.2K	24K◆	91K	390K	
2.2◆	6.8◆	22◆	68◆	220◆	680◆	2.2K◆	6.8K◆	27K◆	100K◆	470K◆	
2.4	7.5	24◆	75◆	240◆	750◆	2.4K	7.5K◆	30K◆	120K◆	510K◆	
2.7◆	8.2◆	27◆	82◆	270◆	820◆	2.7K◆	8.2K◆	33K◆	130K	560K	
3.0◆	9.1	30◆	91◆	300◆	910◆	3.0K◆	9.1K	39K◆	150K◆	680K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
1W, Power Metal Film Resistor	1.0 ~ 1.0M	PPC(Value)W-1CT-ND	.31	2.15	9.65	PPC(Value)W-1TR-ND	21.00/M	20.00/M	PR0100010xxxxxJR500

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

PR02 Type 5% Power Metal Film Resistors — 2 Watt 5083NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 2.0W
- **Thermal Resistance, R_{TH}:** 75K/W
- **Maximum Continuous Operating Voltage:** 500V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

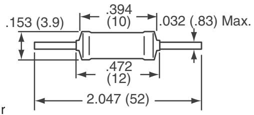

Standard Resistor Values

1.0◆	3.0	8.2◆	24	68◆	200◆	560◆	1.8K◆	5.1K◆	15K◆	43K	150K◆	510K◆
1.1	3.3◆	9.1	27◆	75◆	220◆	620◆	2.0K◆	5.6K◆	16K◆	47K◆	160K	560K
1.2	3.6	10◆	30◆	82◆	240◆	680◆	2.2K◆	6.2K	18K◆	51K◆	180K◆	620K
1.3	3.9◆	11	33◆	91	270◆	750◆	2.4K	6.8K	20K◆	56K◆	200K◆	680K◆
1.5◆	4.3	12	36	100◆	300◆	820◆	2.7K	7.5K◆	22K◆	62K	220K	750K
1.6◆	4.7◆	13	39◆	110	330◆	1.0K◆	3.0K◆	8.2K◆	24K◆	68K◆	240K◆	1.0M◆
1.8◆	5.1◆	15◆	43	120◆	360◆	1.1K	3.3K◆	9.1K	27K◆	75K	270K◆	
2.0◆	5.6	16	47◆	130◆	390◆	1.2K◆	3.6K	10K◆	30K	82K◆	300K	
2.2◆	6.2◆	18	51◆	150◆	430	1.3K	3.9K◆	11K	33K◆	91K	330K◆	
2.4◆	6.8◆	20◆	56◆	160	470◆	1.5K◆	4.3K	12K◆	36K◆	100K◆	390K◆	
2.7◆	7.5	22◆	62	180◆	510◆	1.6K	4.7K◆	13K◆	39K◆	120K◆	470K◆	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
2W, Power Metal Film Resistor	1.0 ~ 1.0M	PPC(Value)W-2CT-ND	.50	3.41	15.64	PPC(Value)W-2TR-ND	40.00/M	38.00/M	PR0200020xxxxxJR500

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

PR03 Type 5% Power Metal Film Resistors — 3 Watt 5093NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 3.0W
- **Thermal Resistance, R_{TH}:** 60K/W
- **Maximum Continuous Operating Voltage:** 750V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

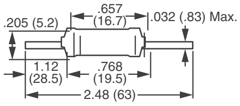

Standard Resistor Values

10◆	51◆	200◆	820◆	4.7K◆	16K	47K◆	160K◆	750K◆
12◆	56◆	220◆	1.0K◆	5.1K◆	18K◆	51K◆	200K◆	1.0M◆
15◆	62◆	240◆	1.1K	6.8K◆	20K◆	56K◆	220K◆	
18◆	68◆	300◆	1.2K◆	7.5K◆	22K◆	62K◆	240K◆	
20◆	75◆	330◆	1.5K◆	8.2K◆	24K◆	75K◆	330K◆	
24◆	100◆	390◆	2.0K◆	10K◆	27K◆	82K◆	360K◆	
27◆	110◆	470◆	2.4K◆	11K◆	30K◆	100K◆	390K◆	
33◆	120◆	510◆	2.7K◆	12K◆	33K◆	120K◆	430K◆	
43◆	150◆	560◆	3.0K◆	13K◆	36K◆	130K◆	470K◆	
47◆	180◆	680◆	3.9K◆	15K◆	39K◆	150K◆	510K◆	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	Digi-Key Part No.†	Tape and Box Pricing 500	1,000	2,500	Vishay Part No.
3W, Power Metal Film Resistors	10 ~ 1.0M	PPC(Value)W-3JCT-ND	.71	4.85	PPC(Value)W-3JTB-ND	53.50	82.00	77.00/M	PR0300020xxxxxJAC00

◆ ***RoHS Compliant*** † For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

NFR25/NFR25H Type 5% Metal Film Fusible Resistors — 0.33 and 0.5 Watt

5063F and 5065F Series

RoHS Compliant Parts Available

The resistors are coated with a grey, flame retardant lacquer which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

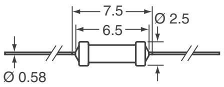

Features:

- Fusible resistors
- Defined interruption behavior (fusing time)
- Nonflammable lacquer
- High stability, reliability and uniformity characteristics
- Suitable for protecting circuit boards and designs

Characteristics:

- **Resistance Tolerance:** ±5%
- **Maximum Dissipation at T_{AMB} = 70°C:** NFR25: 0.33W; NFR25H: 0.5W
- **Maximum Permissible Voltage:** NFR25: 250V; NFR25H: 350V
- **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

.22	2.2	22	330	2.2K
.33	3.3	33	470	3.3K
.47	4.7	47	680	4.7K
.68	6.8	100	68	6.8K
1.0	10	150	1.0K	10K
1.5	15	220	1.5K	15K

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	10,000	Vishay Part No.
NFR25, 0.33W, Power Metal Film Fusible Resistors	.22 ~ 15K	PPC(Value)ACT-ND	.57	3.91	17.94	PPC(Value)ATR-ND	45.00/M	43.00/M	NFR250000xxxxxJR500
NFR25H, 0.5W, Power Metal Film Fusible Resistors	.22 ~ 15K	PPC(Value)BCT-ND	.64	4.32	21.61	PPC(Value)BTR-ND	61.00/M	60.00/M	NFR25H000xxxxxJR500

† For complete part number, substitute the value from the Standard Resistor Values chart for (Value)

NFR01/02/03 Type 5% Metal Film High Power Fusible Resistors — 1, 2 and 3 Watt

5073FM, 5083FM and 5093FM Series

The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Features: • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs

Characteristics: • **Resistance Tolerance:** ±5% • **Maximum Dissipation at 70°C:** NFR01: 1.0W; NFR02: 2.0W; NFR03: 3.0W • **Maximum Permissible Voltage:** NFR01: 350V; NFR02: 500V; NFR03: 500V • **Temperature Coefficient:** ≤±200ppm/°C

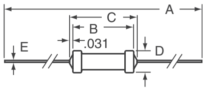

Type	Dimensions (mm) A	B	C	D	E
NFR01	52 ±1.5	6.5	8.5	2.5	0.58 ±0.05 Cu.
NFR02	52 ±1.5	10.0	12.0	4.0	0.8 ±0.03 Cu.
NFR03	63 ±1.5	16.7	19.5	5.3	0.8 ±0.03 Cu.

Standard Resistor Values

.47	2.2	10	47	220	1.0K
.68	3.3	15	68	330	
1.0	4.7	22	100	470	
1.5	6.8	33	150	680	

Description	Value Range (Ω)	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	250	Digi-Key Part No.*	Tape and Reel Pricing 500	1,000	5,000	10,000	Vishay Part No.
NFR01, 1W, Metal Film High Power Fusible Resistors	.47 ~ 1.0K	PPC(Value)CCT-ND	.60	4.05	20.24	39.94	PPC(Value)CTR-ND	—	—	58.00/M	56.00/M	NFR010000xxxxxJR500
NFR02, 2W, Metal Film High Power Fusible Resistors	.47 ~ 1.0K	PPC(Value)DCT-ND	.97	6.56	32.78	64.69	PPC(Value)DTR-ND	—	—	93.00/M	91.00/M	NFR020000xxxxxJR500
NFR03, 3W, Metal Film High Power Fusible Resistors	.47 ~ 1.0K	PPC(Value)ECT-ND	1.08	10.01	76.45	173.75	PPC(Value)ETB-ND†	222.50	370.00	354.00/M	348.00/M	NFR030000xxxxxJAC00

***** For complete part number, substitute Digi-Key value from Standard Resistor Value Chart for (Value). **†** Tape and Box

1% and 5% Cemented Wirewound Resistors

RoHS Compliant Parts Available

The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint. The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-flammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with MIL-STD-202E, method 215 and IEC 60068-2-45.

Characteristics:

PAC: • Resistance Tolerance: ±1% • Temperature Coefficient: ±100ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W • Operating Temperature Range: -55°C ~ 200°C • Maximum Permissive Body Temperature: 275°C

AC: • Resistance Tolerance: ±5% • Temperature Coefficient: <10Ω +600ppm/°C, >10Ω-80/+140ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W, 7W • Operating Temperature Range: -40°C ~ 200°C • Maximum Permissive Body Temperature: 350°C

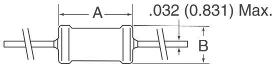

Type	Dimensions – mm A (Max.)	B (Max.)
PAC01	10	4.3
PAC03	17	5.5
PAC05	23	7.5
AC01	10	4.3
AC03	13	5.5
AC05	17	7.5
AC07	25	7.5

1% PPC(X)D Resistance Values

1W			3W			5W			
.10	27.0	500	.10	27.0	500	.10	27.0	500	9.1K
.13	30.0	560	.13	30.0	560	.13	30.0	560	10.0K
.15	33.0	620	.15	33.0	620	.15	33.0	620	
.20	36.0	680	.20	36.0	680	.20	36.0	680	
.25	39.0	750	.25	39.0	750	.25	39.0	750	
.30	47.0	820	.30	47.0	820	.30	47.0	820	
.33	50.0	910	.33	50.0	910	.33	50.0	910	
.47	56.0	1.0K	.47	56.0	1.0K	.47	56.0	1.0K	
.50	68.0	1.1K	.50	68.0	1.1K	.50	68.0	1.1K	
.75	75.0	1.2K	.75	75.0	1.2K	.75	75.0	1.5K	
1.0	82.0	1.5K	1.0	82.0	1.5K	1.0	82.0	1.8K	
1.5	100	1.8K	1.5	100	1.8K	1.5	100	2.0K	
2.0	120	2.0K	2.0	120	2.0K	2.0	120	2.2K	
3.0	124	2.2K	3.0	124	2.2K	3.0	124	2.5K	
3.9	150	2.5K	3.9	150	2.5K	3.9	150	2.7K	
4.7	180		4.7	180	2.7K	4.7	180	3.0K	
5.0	200		5.0	200	3.0K	5.0	200	3.6K	
7.5	220		7.5	220	3.6K	7.5	220	3.9K	
10.0	250		10.0	250	3.9K	10.0	250	4.7K	
12.0	270		12.0	270	4.7K	12.0	270	5.0K	
15.0	300		15.0	300	5.0K	15.0	300	5.6K	
18.0	330		18.0	330		18.0	330	6.2K	
20.0	360		20.0	360		20.0	360	6.8K	
22.0	390		22.0	390		22.0	390	7.5K	
25.0	470		25.0	470		25.0	470	8.2K	

5% PPC(X)W Resistance Values

1W			3W			5W				7W			
.10	27.0	470	.10	30.0	500	.10	27.0	470	6.2K	.10	30.0	500	6.8K
.13	30.0	500	.13	33.0	560	.13	30.0	500	6.8K	.13	33.0	560	7.5K
.15	33.0	560	.15	36.0	620	.15	33.0	560	7.5K	.15	36.0	620	8.2K
.20	36.0	620	.20	39.0	680	.20	36.0	620	8.2K	.20	39.0	680	9.1K
.24	39.0	680	.24	43.0	750	.24	39.0	680	9.1K	.24	43.0	750	10.0K
.30	43.0	750	.30	47.0	820	.30	43.0	750	10.0K	.30	47.0	820	11.0K
.33	47.0	820	.33	50.0	910	.33	47.0	820		.33	50.0	910	12.0K
.47	50.0	910	.47	56.0	1.0K	.47	50.0	910		.47	56.0	1.0K	13.0K
.50	56.0	1.0K	.50	68.0	1.1K	.50	56.0	1.0K		.50	68.0	1.1K	15.0K
.75	68.0	1.1K	.75	75.0	1.2K	.75	68.0	1.1K		1.0	75.0	1.2K	
1.0	75.0	1.2K	1.0	82.0	1.5K	1.0	75.0	1.2K		1.5	82.0	1.5K	
1.5	82.0	1.5K	1.5	100	1.8K	1.5	82.0	1.5K		2.0	100	1.8K	
2.0	100	1.8K	3.0	120	2.0K	2.0	100	1.8K		3.0	120	2.0K	
3.0	120	2.0K	3.9	150	2.2K	3.0	120	2.0K		3.9	150	2.2K	
3.9	150	2.2K	4.7	180	2.4K	3.9	150	2.2K		4.7	180	2.4K	
4.7	180	2.4K	5.0	200	2.7K	4.7	180	2.4K		5.0	200	2.7K	
5.0	200		7.5	220	3.0K	5.0	200	2.7K		7.5	220	3.0K	
7.5	220		10.0	240	3.3K	7.5	220	3.0K		10.0	240	3.3K	
10.0	240		12.0	270	3.6K	10.0	240	3.3K		12.0	270	3.6K	
12.0	270		15.0	300	3.9K	12.0	270	3.6K		15.0	300	3.9K	
15.0	300		18.0	330	4.3K	15.0	300	3.9K		18.0	330	4.3K	
18.0	330		20.0	360	4.7K	18.0	330	4.3K		20.0	360	4.7K	
20.0	360		22.0	390	5.0K	20.0	360	4.7K		22.0	390	5.0K	
22.0	390		24.0	430		22.0	390	5.0K		24.0	430	5.6K	
24.0	430		27.0	470		24.0	430	5.6K		27.0	470	6.2K	

Value Type	Range (Ω)	Watt-age	Res. Tol.	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape and Box Pricing 500	1,000	5,000	10,000	Vishay Part No.
PAC01	.10 ~ .75, 1.0K ~ 2.5K	1	1%	PPC1D(Value)CT-ND	.97	6.75	40.60	PPC1D(Value)TB-ND	—	155.00	147.00/M	141.00/M	PAC10000xxxxFA1000
	1.0 ~ 910	1	1%	PPC1D(Value)CT-ND	.97	6.75	40.60	PPC1D(Value)TB-ND	—	155.00	147.00/M	141.00/M	PAC10000xxxxFA1000
PAC03	.10 ~ .75, 1.0K ~ 5.0K	3	1%	PPC3D(Value)CT-ND	1.13	7.95	52.50	PPC3D(Value)TB-ND	168.49	274.05	261.37/M	253.75/M	PAC30000xxxxFAC000
	1.0 ~ 910	3	1%	PPC3D(Value)CT-ND	1.13	7.95	52.50	PPC3D(Value)TB-ND	168.49	274.05	261.37/M	253.75/M	PAC30000xxxxFAC000
PAC05	.10 ~ .75, 1.0K ~ 10.0K	5	1%	PPC5D(Value)CT-ND	1.29	9.12	60.20	PPC5D(Value)TB-ND	192.56	313.20	298.70/M	290.00/M	PAC50000xxxxFAC000
	1.0 ~ 910	5	1%	PPC5D(Value)CT-ND	1.29	9.12	60.20	PPC5D(Value)TB-ND	192.56	313.20	298.70/M	290.00/M	PAC50000xxxxFAC000
AC01	.10 ~ .75, 1.0K	1	5%	PPC1W(Value)CT-ND	1.30	8.98	49.88	PPC1W(Value)TB-ND	—	186.00	177.00/M	170.00/M	AC0100000xxxJA100
	1.0 ~ 910, 1.1K ~ 1.8K	1	5%	PPC1W(Value)CT-ND	.76	5.27	29.25	PPC1W(Value)TB-ND	—	158.18	149.91/M	143.93/M	AC0100000xxxJA100
	2.0K ~ 2.4K	1	5%	PPC1W(Value)CT-ND	1.13	7.95	52.50	PPC1W(Value)TB-ND	—	274.05	261.37/M	253.75/M	AC0100000xxxJA100
AC03	.10 ~ .75	3	5%	PPC3W(Value)CT-ND	.90	6.21	34.50	PPC3W(Value)TB-ND	107.63	170.66	161.75/M	155.29/M	AC0300000xxxJAC100
	1.0 ~ 910	3	5%	PPC3W(Value)CT-ND	.90	6.21	34.50	PPC3W(Value)TB-ND	107.63	170.66	161.75/M	155.29/M	AC0300000xxxJAC100
	1.0K ~ 5.0K	3	5%	PPC3W(Value)CT-ND	.90	6.21	34.50	PPC3W(Value)TB-ND	107.63	170.66	161.75/M	155.29/M	AC0300000xxxJAC100
AC05	.10 ~ .75	5	5%	PPC5W(Value)CT-ND	.95	6.63	39.88	PPC5W(Value)TB-ND	121.55	196.63	185.90/M	178.75/M	AC0500000xxxJAC100
	1.0 ~ 1.0K	5	5%	PPC5W(Value)CT-ND	.95	6.63	39.88	PPC5W(Value)TB-ND	121.55	196.63	185.90/M	178.75/M	AC0500000xxxJAC100
	1.1K ~ 10.0K	5	5%	PPC5W(Value)CT-ND	.95	6.63	39.88	PPC5W(Value)TB-ND	121.55	196.63	185.90/M	178.75/M	AC0500000xxxJAC100
AC07	.10 ~ .75	7	5%	PPC7W(Value)CT-ND	1.03	7.26	47.95	PPC7W(Value)TB-ND	158.95	257.13	243.10/M	233.75/M	AC0700000xxxJAC100
	1.0 ~ 910	7	5%	PPC7W(Value)CT-ND	1.34	9.43	62.30	PPC7W(Value)TB-ND	175.13	284.85	271.67/M	263.75/M	AC0700000xxxJAC100
	1.0K ~ 15.0K	7	5%	PPC7W(Value)CT-ND	1.34	9.43	62.30	PPC7W(Value)TB-ND	175.13	284.85	271.67/M	263.75/M	AC0700000xxxJAC100

***** For complete part number, substitute Digi-Key value from Resistance Value Chart for (Value).

VISHAY. Electro Films

NEW! Thin Film Back-Contact Resistors

The Back Contact Resistor (BCR) series single-value chip is one of the smallest chips available. The BCR requires only one wire bond thus saving hybrid space. **Features:** • Wire bondable • Small size 0.020 inches square • Oxidized silicon substrate for good power dissipation • Resistor material: Tantalum nitride, self-passivating • Moisture resistant

Description	Power Rating (Watts)	Value Range (Ω)	Digi-Key Part No.‡	Price Each 10	Price Each 50	Vishay Part No.
BCR2020, 1% BCRFM	0.25	10 ~ 10K	BCR(Value)FM-ND	8.33	7.29	BCRxxxxxFMAHWT

‡ For complete part number, substitute value from Resistance Value Chart for (Value)

Resistance Values BCR2020, 1%, BCRFM

10	47	10K

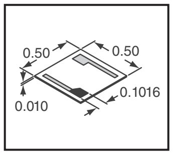

NEW! Thin Film Center-Contact Resistors

The CTR offers the designer flexibility in use as either a single value resistor as two resistors with a center tap feature. **Features:** • Wire bondable • Tight ratio tolerances to: 0.05% • Chip size: 0.030 inches square • Oxidation silicon substrate for good power dissipation • Resistor material: Tantalum nitride, self-passivating • Moisture resistant

Description	Power Rating (Watts)	Value Range (Ω)	Digi-Key Part No.‡	Price Each 10	Price Each 50	Vishay Part No.
CTR3030, 1%, CTRFK	0.25	1.0K ~ 27K	CTR-(Value)FK-ND	5.91	4.89	CTRxxxxxFFKGANHWT

‡ For complete part number, substitute value from Resistance Value Chart for (Value)

Resistance Values CTR3030, 1%, CTRFK

1.0K	10K	20K	27K

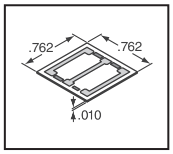

NEW! Thin Film Top-Contact Resistors

The SFM Series single-value resistor chips offer a small size, wide ohmic value range and excellent power capacity. The SFMs tantalum nitride resistor material offers excellent resistance to high moisture environments. **Features:** • Wire bondable • Small size: 0.020 inches square • Oxidized silicon substrate for good power dissipation • Self-passivating • Moisture resistant

Description	Power Rating (Watts)	Value Range (Ω)	Digi-Key Part No.‡	Price Each 10	Price Each 50	Vishay Part No.
SFM2020, 1%, SFMFK	0.25	10 ~ 10K	SFM(Value)FK-ND	5.13	4.24	SFMxxxxxFKANHWT
SFM2020, 1%, SFMFM	0.25	1M	SFM1.0MFM-ND	5.13	4.24	SFM10003FMANHWT

‡ For complete part number, substitute value from Resistance Value Chart for (Value)

Resistance Values SFM2020, 1%, SFMFK

10	1.0K	10K

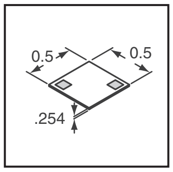

VISHAY. Dale WSL Power Metal Strip® SMT Resistors

Features: • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers • All welded construction • Solid metal iron-chrome (nickel chrome on WSL3921 and WSL5931) or manganese-copper alloy resistive element with low TCR (<20 ppm/°C) • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz • Low thermal EMF (<3µV/°C

Specifications: • Operating Temperature Range: -65°C ~ 170°C • Thermal Shock: -55°C ~ 150°C, 1000 cycles, 15 minutes at each extreme • Load Life: 1000 hours at 70°C, 1.5 hours "ON", 0.5 hours "OFF" • Short Time Overload: 5X Rated Power for 5 Seconds

Series	Value Range	Dimensions – mm L	W	H	T
WSL0603	All Listed Values	1.52	0.76	.330	.381
WSL0805	All Listed Values	2.03	1.27	.330	.381
WSL1206	All Listed Values	3.20	1.60	.635	.508
WSL2010	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512	.001Ω ~ .004Ω	6.35	3.18	.635	2.21
	.005Ω ~ .006Ω	6.35	3.18	.635	1.19
	.007Ω ~ .50Ω	6.35	3.18	.635	.762
WSL2816	All Listed Values	7.1	4.20	.635	1.57
WSL3921	All Listed Values	10.01	5.20	.5	2.00
WSL5931	All Listed Values	15.01	7.75	.5	4.00

Fig. 1

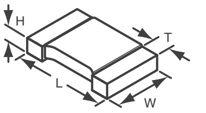

Fig. 2

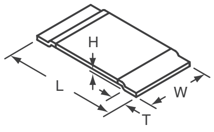

Series	Temperature Coefficient ppm/°C
WSL0603	±75
WSL0805	±75
WSL1206	.002Ω/ ±275 .003Ω ~ .004Ω/ ±150 .005Ω ~ .006Ω/ ±110 .007Ω ~ .2Ω/ ±75
WSL2010	.001Ω ~ .002Ω/ ±275 .003Ω ~ .004Ω/ ±150 .005Ω ~ .006Ω/ ±1105X .007Ω ~ .50Ω/ ±75
WSL2512	.001Ω ~ .002Ω/ ±275 .003Ω ~ .004Ω/ ±150 .005Ω ~ .006Ω/ ±110 .007Ω ~ .5Ω/ ±75
WSL2816	±75
WSL3921	.0003Ω ~ .0005Ω/ ±175 .001Ω ~ .004Ω/ ±75
WSL5931	.0002Ω/ ±225 .003Ω ~ .0005Ω/ ±175 .001Ω ~ .003Ω/ ±75

Resistance Values WSL0603, 1%, WSLJ

.01	.02	.033
.015	.022	.05
.016	.025	.051
.018	.03	.1

Resistance Values WSL0805, 1%, WSLA

.01	.03	.08
.015	.033	.10
.02	.04	.15
.025	.05	.20

Resistance Values WSL1206, 1%, WSLC

.002	.006	.01	.03	.06	.10
.003	.007	.015	.033	.07	.15
.004	.008	.02	.04	.08	.20
.005	.009	.025	.05	.09	

Resistance Values WSL2010, 1%, WSLE

.001	.006	.015	.04	.09	.25
.002	.007	.02	.05	.10	.30
.003	.008	.025	.06	.11	.33
.004	.009	.03	.07	.15	.40
.005	.01	.033	.08	.20	.50

Resistance Values WSL2512, 1%, WSLG

.001	.006	.015	.04	.09	.25
.002	.007	.02	.05	.10	.30
.003	.008	.025	.06	.15	.33
.004	.009	.03	.07	.151	.40
.005	.01	.033	.08	.20	.50

Resistance Values WSL2816, 1%, WSLK

.01	.018	.025	.04	.06	.068	.08
.012	.019	.03	.047	.062	.07	.082
.015	.02	.033	.05	.065	.075	.1

Resistance Values WSL3921, 1%, WSLM

.0003	.002
.0005	.003
.001	.004

Resistance Values WSL5931, 1%, WSLN

.0002	.001
.0003	.002
.0005	.003

Fig.	Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Digi-Key Part No.‡	Tape and Reel Qty.	Pricing
1	WSL0603, 1%, WSLJ	.1	.01 ~ .051	WSLJ-(Value)CT-ND	1.02	8.67	38.25	WSLJ-(Value)TR-ND	5,000	320.00/M
		.1	.1	WSLJ-(Value)CT-ND	.82	6.97	30.75	WSLJ-(Value)TR-ND	5,000	256.00/M
	WSL0805, 1%, WSLA	.125	.01 ~ .05	WSLA-(Value)CT-ND	1.02	8.67	38.25	WSLA-(Value)TR-ND	5,000	320.00/M
		125	.08 ~ .20	WSLA-(Value)CT-ND	.82	6.97	30.75	WSLA-(Value)TR-ND	5,000	256.00/M
	WSL1206, 1%, WSLC	.25	.002 ~ .009	WSLC-(Value)CT-ND	1.57	13.35	58.88	WSLC-(Value)TR-ND	4,000	496.00/M
		.25	.01 ~ .06	WSLC-(Value)CT-ND	1.12	9.52	42.00	WSLC-(Value)TR-ND	4,000	352.00/M
		.25	.07 ~ .20	WSLC-(Value)CT-ND	.92	7.82	34.50	WSLC-(Value)TR-ND	4,000	288.00/M
	WSL2010, 1%, WSLE	.5	.001 ~ .004	WSLE-(Value)CT-ND	1.92	16.32	72.00	WSLE-(Value)TR-ND	4,000	608.00/M
		.5	.005 ~ .009	WSLE-(Value)CT-ND	1.82	15.47	68.25	WSLE-(Value)TR-ND	4,000	576.00/M
		.5	.01 ~ .06	WSLE-(Value)CT-ND	1.27	10.80	47.63	WSLE-(Value)TR-ND	4,000	400.00/M
		.5	.07 ~ .50	WSLE-(Value)CT-ND	1.07	9.10	40.13	WSLE-(Value)TR-ND	4,000	336.00/M
	WSL2512, 1%, WSLG	1.0†	.001 ~ .004	WSLG-(Value)CT-ND	1.97	16.75	73.88	WSLG-(Value)TR-ND	2,000	624.00/M
		1.0†	.005 ~ .009	WSLG-(Value)CT-ND	1.87	15.90	70.13	WSLG-(Value)TR-ND	2,000	592.00/M
		1.0†	.01 ~ .06	WSLG-(Value)CT-ND	1.27	10.80	47.63	WSLG-(Value)TR-ND	2,000	400.00/M
		1.0†	.07 ~ .50	WSLG-(Value)CT-ND	1.12	9.52	42.00	WSLG-(Value)TR-ND	2,000	352.00/M
	WSL2816, 1%, WSLK	2	.01 ~ .068	WSLK-(Value)CT-ND	1.66	14.07	62.06	WSLK-(Value)TR-ND	5,000	523.00/M
		2	.07 ~ .1	WSLK-(Value)CT-ND	1.46	12.41	54.75	WSLK-(Value)TR-ND	5,000	461.00/M
2	WSL3921, 1%, WSLM	3.0	.0003 ~ .004	WSLM-(Value)CT-ND	2.77	23.55	103.88	WSLM-(Value)TR-ND	3,000	880.00/M
	WSL5931, 1%, WSLN	5.0	.0002 ~ .003	WSLN-(Value)CT-ND	3.27	27.80	122.63	WSLN-(Value)TR-ND	1,500	1040.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value) † For values above .1Ω, derate linearly to 80% rated power at .5Ω.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Dale

WSL High Power, Power Metal Strip® SMT Resistors

Features:
• Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers • Specially selected and stabilized materials allow for high power ratings (2x standard WSL rating) • All welded construction • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz • Low thermal EMF (<3µV/°C) • Operating Temperature Range: -65°C ~ 170°C

Series	Temperature Coefficient ppm/°C	Short Time Overload
WSL0603-18	±75	5x Rated Power for 5 Seconds
WSL0805-18	±75	
WSL1206-18	.005Ω ~ .006Ω/±110 .007Ω ~ .05Ω/±75	
WSL2010-18	.001Ω/±275 .006Ω/±110 .007Ω ~ 0.5Ω/±75	
WSL2512-18	.009Ω/±75	

Series	Value Range	Dimensions – (mm) L	W	H	T
WSL0603-18	All Listed Values	1.52	0.76	.330	.381
WSL0805-18	All Listed Values	2.03	1.27	.330	.381
WSL1206-18	All Listed Values	3.20	1.60	.635	.508
WSL2010-18	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512-18	.009	6.35	3.18	.635	.762

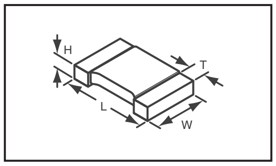

Resistance Values WSL0603-18, 1%, WSLL

.015	.03	.05
.02	.033	.1
.025	.04	

Resistance Values WSL0805-18, 1%, WSLB

.01	.03	.05	.20
.02	.033	.10	
.025	.04	.15	

Resistance Values WSL1206-18, 1%, WSLD

.005	.03
.006	.04
.009	.05

Resistance Values WSL2010-18, 1%, WSLF

.001	.008	.02	.033	.08	.20
.006	.01	.025	.04	.10	.50
.007	.015	.03	.05	.15	

Resistance Value WSL2512-18, 1%, WSLH

.009

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Digi-Key Part No.‡	Tape and Reel Pricing 2,000	4,000	5,000	10,000	12,000
WSL0603-18, 1%, WSLL	.2	.015 ~ .1	WSLL-(Value)CT-ND	1.32	11.22	49.50	WSLL-(Value)TR-ND	—	—	416.00/M	390.00/M	—
WSL0805-18, 1%, WSLB	.25	.01 ~ .05	WSLB-(Value)CT-ND	1.32	11.22	49.50	WSLB-(Value)TR-ND	—	—	416.00/M	390.00/M	—
WSL0805-18, 1%, WSLB	.25	.10 ~ .20	WSLB-(Value)CT-ND	1.06	9.01	39.75	WSLB-(Value)TR-ND	—	—	333.00/M	312.00/M	—
WSL1206-18, 1%, WSLD	.5	.005 ~ .009	WSLD-(Value)CT-ND	1.92	16.32	72.00	WSLD-(Value)TR-ND	—	608.00/M	—	—	532.00/M
WSL1206-18, 1%, WSLD	.5	.03 ~ .05	WSLD-(Value)CT-ND	1.45	12.28	54.19	WSLD-(Value)TR-ND	—	456.00/M	—	—	399.00/M
WSL2010-18, 1%, WSLF	1.0	.001	WSLF-(Value)CT-ND	2.49	21.17	93.38	WSLF-(Value)TR-ND	—	790.00/M	—	—	692.00/M
WSL2010-18, 1%, WSLF	1.0	.006 ~ .008	WSLF-(Value)CT-ND	2.36	20.06	88.50	WSLF-(Value)TR-ND	—	749.00/M	—	—	655.00/M
WSL2010-18, 1%, WSLF	1.0	.01 ~ .05	WSLF-(Value)CT-ND	1.65	13.98	61.69	WSLF-(Value)TR-ND	—	520.00/M	—	—	455.00/M
WSL2010-18, 1%, WSLF	1.0	.08 ~ .50	WSLF-(Value)CT-ND	1.40	11.86	52.31	WSLF-(Value)TR-ND	—	440.00/M	—	—	385.00/M
WLS2512-18, 1%, WSLH	2.0	.009	WSLH-(Value)CT-ND	2.42	20.57	90.75	WSLH-(Value)TR-ND	768.00/M	—	—	672.00/M	—

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

WSLP Very High Power, Power Metal Strip® SMT Resistors

Features: • Very high power to footprint size ratio • Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts • All welded construction • Solid metal nickel-chrome or Manganese-copper alloy resistive element with low TCR (<20ppm/°C) • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz • Low thermal EMF (<3µV/°C) **Specifications:** • Operating Temperature range: -65°C ~ 170°C • Temperature Coefficient: ±75ppm/°C • Short Time Overload: 5X Rated Power for 5 Seconds

Resistance Values

.005	.015	.03
.01	.02	.05

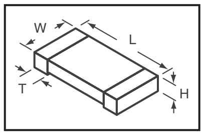

Description	Power Rating (W)	Value Range (Ω)	Dimensions – mm L	W	T	H	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Digi-Key Part No.‡	Tape and Reel Pricing 4,000
WSL1206, 1%, WSLP	1	.005	3.2	1.6	.635	.508	WSLP-(Value)CT-ND	1.87	15.90	70.13	WSLP-(Value)TR-ND	592.00/M
WSL1206, 1%, WSLP	1	.01 ~ .05	3.2	1.6	.635	.508	WSLP-(Value)CT-ND	1.27	10.80	47.63	WSLP-(Value)TR-ND	400.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

WSLT High Temperature, Power Metal Strip® SMT Resistors

Features: • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers • Specially selected and stabilized materials allow for high temperature derating (to 275°C) • All welded construction • Solid metal nickel-chrome alloy resistive element with low TCR (<20 ppm/°C) • Very low inductance (<5nH) • Excellent frequency response to 50MHz • Low thermal EMF (<3µV/°C) **Specifications:** • Operating Temperature Range: -65°C ~ 275°C • Inductance: <5nH • Temperature Coefficient: ±75ppm/°C

Resistance Values

.01	.02	.1	.5
.015	.05	.2	

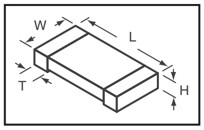

Description	Power Rating (W)	Value Range (Ω)	Dimensions – mm L	W	T	H	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Digi-Key Part No.‡	Tape and Reel Pricing 2,000
WSL2512, 1%, WSLT	1	.01 ~ .05	6.35	3.18	.635	.762	WSLT-(Value)CT-ND	1.42	12.07	53.25	WSLT-(Value)TR-ND	448.00/M
WSL2512, 1%, WSLT	1	.1 ~ .5	6.35	3.18	.635	.762	WSLT-(Value)CT-ND	1.25	10.58	46.69	WSLT-(Value)TR-ND	392.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

WSC Wirewound SMT Resistors

Resistance Values WSC01/2, 1% WSCA

1.0
2.0
4.99

Resistance Values WSC4527, 1%, WSCC

1.0	10	100	2.0K
2.0	20	400	
5.0	50	1.0K	

Resistance Values WSC2515, 1%, WSCB

.50	5.0	100
1.0	10	1.0K
2.0	50	2.0K

Resistance Values WSC6927, 1%, WSCD

.50	100
1.0	1.0K
10	

Series	Operating Temperature Range	Temperature Coefficient ppm/°C	Short Time Overload
WSC01/2	-65°C ~ 175°C	±50	5X Rated Power for 5 Seconds
WSC2515	-65°C ~ 275°C	.50Ω/±90 1.0Ω ~ 10Ω/±50 50Ω ~ 2.0KΩ/±20	
WSC4527	-65°C ~ 275°C	1.0Ω ~ 5.0Ω/±50 10Ω ~ 2.0KΩ/±20	
WSC6927	-65°C ~ 275°C	.50Ω/±90 1.0Ω/±50 10Ω ~ 1.0KΩ/±20	

Features: • All welded construction • Molded encapsulation • Wraparound terminations • Excellent stability at different environmental conditions • Superior surge capability

Series	Dimensions – (mm) L	W	H	T
WSC01/2	5.08	2.44	1.02	3.18
WSC2515	6.35	2.79	1.14	3.81
WSC4527	11.56	4.24	2.54	6.98
WSC6927	17.53	7.11	2.54	6.98

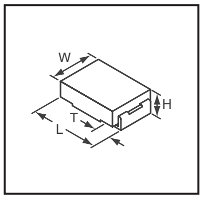

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Digi-Key Part No.‡	Tape and Reel Qty.	Pricing
WSC01/2, 1%, WSCA	.5	1.0 ~ 4.99	WSCA-(Value)CT-ND	2.42	20.57	90.75	WSCA-(Value)TR-ND	2,000	768.00/M
WSC2515, 1%, WSCB	1.0	.50	WSCB-(Value)CT-ND	2.57	21.85	96.38	WSCB-(Value)TR-ND	2,000	816.00/M
WSC2515, 1%, WSCB	1.0	1.0 ~ 10	WSCB-(Value)CT-ND	1.92	16.32	72.00	WSCB-(Value)TR-ND	2,000	608.00/M
WSC2515, 1%, WSCB	1.0	50 ~ 100	WSCB-(Value)CT-ND	2.47	21.00	92.63	WSCB-(Value)TR-ND	2,000	784.00/M
WSC2515, 1%, WSCB	1.0	1.0K ~ 2.0K	WSCB-(Value)CT-ND	3.22	27.37	120.75	WSCB-(Value)TR-ND	2,000	1024.00/M
WSC4527, 1%, WSCC	2.0	1.0	WSCC-(Value)CT-ND	2.57	21.85	96.38	WSCC-(Value)TR-ND	1,200	1020.00/M
WSC4527, 1%, WSCC	2.0	2.0 ~ 20	WSCC-(Value)CT-ND	1.92	16.32	72.00	WSCC-(Value)TR-ND	1,200	760.00/M
WSC4527, 1%, WSCC	2.0	50 ~ 400	WSCC-(Value)CT-ND	2.82	23.97	105.75	WSCC-(Value)TR-ND	1,200	1120.00/M
WSC4527, 1%, WSCC	2.0	1.0K ~ 2.0K	WSCC-(Value)CT-ND	3.82	32.47	143.25	WSCC-(Value)TR-ND	1,200	1520.00/M
WSC6927, 1%, WSCD	3.0	.50 ~ 1.0	WSCD-(Value)CT-ND	4.22	35.87	158.25	WSCD-(Value)TR-ND	725	1522.50
WSC6927, 1%, WSCD	3.0	10 ~ 1.0K	WSCD-(Value)CT-ND	3.72	31.62	139.50	WSCD-(Value)TR-ND	725	1341.25

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

VISHAY Dale WSR Power Metal Strip® SMT Resistor

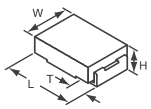

Series	Temperature Coefficient (ppm/°C)	Short Time Overload	Value Range	Dimensions – mm			
				L	W	H	T
WSR2	.001Ω ~ .009Ω/±110 .01Ω ~ 1.0Ω/±75	5X Rated Power for 5 Seconds	All Listed Values	11.56	6.98	2.41	2.54
WSR3	.001Ω ~ .009Ω/±110 .01Ω ~ .20Ω/±75	4X Rated Power for 5 Seconds	All Listed Values	11.56	6.98	2.41	2.54
WSR5	.001Ω ~ .009Ω/±110 .01Ω ~ .3Ω/±75	3X Rated Power for 5 Seconds	All Listed Values	11.56	6.98	2.41	2.54

Features:
• Molded high temperature encapsulation • Improved thermal management incorporated into design • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instrumentation, and power amplifiers • All welded construction • Solid metal Nickel-Chrome or Manganese-Copper alloy resistive element with low TCR (<20 ppm/°C) • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz • Low thermal EMF (<3μV/°C) • Operating Temperature Range: -65°C ~ 275°C

WSR2, 1%, WSRA Resistance Values

.001	.006	.015	.04	.09	.30	1.0
.002	.007	.02	.05	.10	.33	
.003	.008	.025	.06	.15	.40	
.004	.009	.03	.07	.20	.50	
.005	.01	.033	.08	.25	.75	

WSR3, 1%, WSRB Resistance Values

.001	.006	.015	.04	.15
.002	.007	.02	.05	.20
.003	.008	.025	.07	
.004	.009	.03	.09	
.005	.01	.033	.10	

WSR5, 1%, WSRC Resistance Values

.001	.006	.015	.04	.09	.3
.002	.007	.02	.05	.1	
.003	.008	.025	.06	.15	
.004	.009	.03	.07	.2	
.005	.01	.033	.08	.25	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Cut Tape Pricing			Digi-Key Part No.◊	Tape and Reel Pricing		Vishay Part No.
				1	10	50		1,500	6,000	
WSR2, 1%, WSRA	2.0	.001 ~ .004	WSRA-(Value)CT-ND	2.47	21.00	92.63	WSRA-(Value)TR-ND	980.00/M	784.00/M	WSR2xxxxxFEA
WSR2, 1%, WSRA	2.0	.005 ~ .009	WSRA-(Value)CT-ND	2.32	19.72	87.00	WSRA-(Value)TR-ND	920.00/M	736.00/M	WSR2xxxxxFEA
WSR2, 1%, WSRA	2.0	.01 ~ .09	WSRA-(Value)CT-ND	1.92	16.32	72.00	WSRA-(Value)TR-ND	760.00/M	608.00/M	WSR2xxxxxFEA
WSR2, 1%, WSRA	2.0	.10 ~ 1.0	WSRA-(Value)CT-ND	1.17	9.95	43.88	WSRA-(Value)TR-ND	460.00/M	368.00/M	WSR2xxxxxFEA
WSR3, 1%, WSRB	3.0	.001 ~ .004	WSRB-(Value)CT-ND	2.52	21.42	94.50	WSRB-(Value)TR-ND	1000.00/M	800.00/M	WSR3xxxxxFEA
WSR3, 1%, WSRB	3.0	.005 ~ .009	WSRB-(Value)CT-ND	2.42	20.57	90.75	WSRB-(Value)TR-ND	960.00/M	768.00/M	WSR3xxxxxFEA
WSR3, 1%, WSRB	3.0	.01 ~ .09	WSRB-(Value)CT-ND	1.97	16.75	73.88	WSRB-(Value)TR-ND	780.00/M	624.00/M	WSR3xxxxxFEA
WSR3, 1%, WSRB	3.0	.10 ~ .20	WSRB-(Value)CT-ND	1.32	11.22	49.50	WSRB-(Value)TR-ND	520.00/M	416.00/M	WSR3xxxxxFEA
WSR5, 1%, WSRC	5.0	.001 ~ .004	WSRC-(Value)CT-ND	5.27	44.80	197.63	WSRC-(Value)TR-ND	2100.00/M	1680.00/M	WSR5xxxxxFEA
WSR5, 1%, WSRC	5.0	.005 ~ .009	WSRC-(Value)CT-ND	4.87	41.40	182.63	WSRC-(Value)TR-ND	1940.00/M	1552.00/M	WSR5xxxxxFEA
WSR5, 1%, WSRC	5.0	.01 ~ .09	WSRC-(Value)CT-ND	4.07	34.60	152.63	WSRC-(Value)TR-ND	1620.00/M	1296.00/M	WSR5xxxxxFEA
WSR5, 1%, WSRC	5.0	.1 ~ .3	WSRC-(Value)CT-ND	3.67	31.20	137.63	WSRC-(Value)TR-ND	1460.00/M	1168.00/M	WSR5xxxxxFEA

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

WSH2818 Power Metal Strip® High Power (5W) SMT Resistors

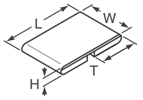

Features: • Improved thermal management incorporated into design • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers • All welded construction • Solid metal Nickel-Chrome or Manganese-Copper alloy resistive element with low TCR (<20 ppm/°C) • Very low inductance (<5nH) • Excellent frequency response to 50MHz • Low thermal EMF (<3μV/°C) • Inductance: <5nH • Operating Temperature Range: -65°C ~ 170°C • Maximum Continuous Current: $(P/R)^{1/2}$ Amps

Series	Value Range (Ω)	Dimensions – mm			
		L	W	H	T
WSH2818	.001 ~ .005 .006 ~ .1	7.1 7.1	4.6 4.6	1.143 .813	3.18 3.18

WSL2818, 1%, WSHA Resistance Values

.001	.003	.005	.007	.009	.015	.025	.033	.05	.07	.09
.002	.004	.006	.008	.01	.02	.03	.04	.06	.08	.1

Series	TCR (ppm/°C)	Thermal Shock	Short Time Overload	Load Life
WSH2818	.001Ω ~ .005Ω/±200 .006Ω ~ .1Ω/±75	-55°C ~ 150°C, 1,000 cycles, 15 min./extreme	4X Rated Power for 5 Seconds	1,000h @70°C, 1.5h "ON," 0.5h "OFF"

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Cut Tape Pricing			Tape & Reel Pricing§		Vishay Part No.
				1	10	50	3,500	7,000	
WSH2818, 1%, WSHA	5	.001 ~ .1	WSHA-(Value)CT-ND	4.77	40.55	178.88	1520.00/M	1425.00/M	WSH2818xxxxxFEA

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND.

WSL3637 Power Metal Strip® 4 Terminal SMT Resistors

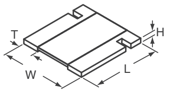

WSL3637, 1%, WSLI Resistance Values

.003	.007
.004	.008
.005	.009
.006	.01

Series	Value Range	Dimensions – mm			
		L	W	H	T
WSL3637	All Listed Values	9.14	9.40	.635	2.18

Features: • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers • All welded construction • Low thermal EMF (<3μV/°C) • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz
Specifications: • Temperature Coefficient: ±50ppm/°C • Short Time Overload: 5X rated power for 5 seconds • Operating Temperature Range: -65°C ~ 170°C

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Cut Tape Pricing			Tape & Reel Pricing§		Vishay Part No.
				1	10	50	4,000	8,000	
WSL3637, 1%, WSLI	3.0	.003 ~ .004	WSLI-(Value)CT-ND	2.12	18.02	79.50	672.00/M	630.00/M	WSL3637xxxxxFEA
WSL3637, 1%, WSLI	3.0	.005 ~ .009	WSLI-(Value)CT-ND	2.02	17.17	75.75	640.00/M	600.00/M	WSL3637xxxxxFEA
WSL3637, 1%, WSLI	3.0	.01	WSLI-.01CT-ND	1.42	12.07	53.25	448.00/M	420.00/M	WSL3637xxxxxFEA

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND.

VISHAY PRECISION GROUP

CSM High Precision Bulk Metal Foil® Current Sensing 4 Terminal, Power Metal Strip SMT Resistors

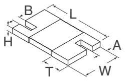

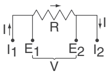

CSM2512 Resistance Values

.005	.05
.01	.1

The CSM Series of low value current sense resistors provides power and precision in a four terminal, surface mount configuration. Its all-welded construction is made up of a Bulk Metal® resistive element with plated copper terminations.
Features: • Thermal EMF: 3μV/°C • Four Terminal (Kelvin) Design: allows for precision accurate measurements
Specifications: • Operating Temperature Range: -55°C ~ 125°C, 25°C Ref. • Maximum Weight: 0.09 grams • Thermal Stabilization Time: <1s (nominal value achieved with 10ppm of steady state value)

Series	Resistance Range (Ω)	Dimensions – mm					
		L	W	H	T	A	B
CSM2512	.005	6.35	3.175	0.635	1.194	0.762	0.813
	.01 ~ .1	6.35	3.175	0.635	0.762	0.762	0.813

Series	Power Rating @ 70°C	Tolerance	Max. Temp. Coefficient	Resist. Range	Digi-Key Part No.◊	Price Each			Vishay Precision Group Part No.
						1	25	100	
CSM2512	1W	± 0.1%	±15 ppm/°C	.005Ω	Y1487-.005-ND	7.68	6.72	5.12	Y14870R00500B9W
CSM2512	1W	± 0.1%	±15 ppm/°C	.01Ω ~ .1Ω	Y1487-(Value)-ND	7.22	6.33	4.82	Y1487xxxxxxxB9W

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

VCS1625Z Bulk Metal Z-Foil® Ultra High Precision, Current Sensing, SMT Resistors

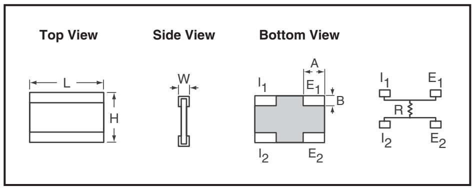

The Z-Foil technology provides a significant reduction of the resistive component's sensitivity to ambient temperature variations (TCR) and applied power changes (PCR). Designers can now guarantee a high degree of stability and accuracy in fixed-resistor applications using solutions based on Vishay's revolutionary Z-Foil technology. Model VCS1625Z is a surface mount chip resistor designed with four pads for Kelvin connection. It provides performance capabilities far greater than other resistor technologies can supply in a product of comparable size.
Features: • Non-inductive, non-capacitive design • Non hot spot design **Performance Specifications:** • TCR: ±0.05ppm/°C typical (0°C ~ 60°C); ±0.2ppm/°C typical (-55°C ~ 125°C, 25°C Ref.) • PCR: 5ppm/at rated power • Load Life Stability: 0.02% @ 70°C, 2,000 hours at rated power • Electrostatic Discharge (ESD): up to 25,000V • Power Rating: 1W @ 70°C on alumina substrate (0.5W on FR4 PCB) • Thermal Shock 5 x (-65°C ~ 150°C): ±0.005% (50ppm) • Low Temp. Operation: ±0.005% (50ppm) • Short Time Overload: ±0.005% (50ppm) • Rise Time: 1ns effectively no ringing • Current Rating: 5A max. • Current Noise: < -40dB • Voltage Coefficient: < 0.1ppm/V • Non-inductive: < 0.08μH • Thermal Stabilization Time: <1s (nominal value achieved with 10ppm of steady state value) **Applications:** • Military • Medical • Automatic test equipment (ATE) • Airborne (in heads-up display systems) • High precision instrumentation • Electron beam recording equipment • Electron microscopes • Current sensing applications • Forced balance electronic scales • Applications that require superior frequency stability

Series	Resistance Value	Dimensions – mm				
		L	H	W	A	B
VCS1625Z	0.5Ω	6.35	4.06	1.02 (max.)	2.03	1.02

Series	Power Rating @ 70°C	Tolerance	Max. Current	Res. Value	TCR (Typ.) and Max. Spread†	Digi-Key Part No.	Price Each			Vishay Precision Group Part No.
							1	25	100	
VCS1625Z	1W	1.0%	5A	0.5Ω	± 0.2 ± 2.8 ppm/°C	Y1607-.5-ND	11.74	10.07	7.97	Y16070R50000F9W

† (-55°C ~ 125°C, 25°C)

VISHAY
PRECISION
GROUP

SMR1D and SMR3D High Precision Bulk Metal Foil® Molded SMT Resistors with Flexible Terminations

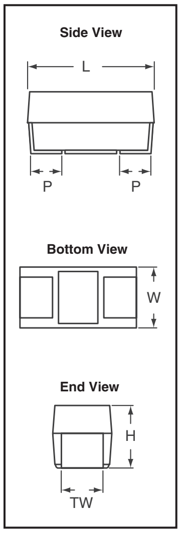

The SMRxD is a precision molded surface mountable resistor offering all of the elements of precision; including low TCR, tight tolerance, long term stability, low noise, low thermal EMF, and non-measurable voltage coefficient. It utilizes the Bulk Metal® Foil technology for the resistive element with its inherent low and predictable TCR and long term stability. This product affords similar performance to the time tested S series molded through-hole product. Voltage division with tight tracking < 3ppm/°C can be achieved with two randomly selected units even with a large ratio between the two values. *The flexible terminations of this product also reduce stress transference from the PCB to the resistor.* **Features:** • Flexible terminations ensure minimal stress transference from the PCB due to a difference in thermal coefficient of expansions (TCE) • Non inductive: < 0.08µH • Non hot spot design • Non capacitive design **Specifications:** • TCR: ±2ppm/°C typical (-55°C ~ 125°C, 25°C Ref.) • Electrostatic Discharge (ESD): up to 25,000V • Load Life Stability: ±0.005% @ 70°C, 2000h at rated power • Current Noise: -40dB • Voltage Coefficient: < 0.1ppm/V • Operating Temperature (Maximum): 175°C • Dielectric Withstanding Voltage: atmospheric pressure, AC 200V, 1 min.; Maximum Limit: ±0.01% (100ppm) • Mil Specifications: MIL-PRF-55182 • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value **Applications:** • Military, airborne and space • Precision amplifiers • High precision instrumentation • Medical • Automatic test equipment (ATE) • Industrial • Audio (high end stereo equipment) • EB application • Pulse application • Measurement instrumentation

SMR1D Resistance Values

10	1.0K
100	10K
500	

SMR3D Resistance Values

10	1K	10K
50	2K	20K
100	5K	50K

Series	Dimensions – mm L	W	H	P	TW
SMR1D	5.99	3.20	2.49	1.30	2.21
SMR3D	7.29	4.32	2.79	1.30	2.41

Series	Power Rating (W)	Working Voltage Max. (V)	Tolerance (%)	Resistance Range (Ω)	Digi-Key Part No.◊	Cut Tape Price Each 1	25	Digi-Key Part No.◊	Tape and Reel Pricing 100	Vishay Precision Group Part No.
SMR1D	0.25	73	0.1	10	Y1121-10CT-ND	14.05	10.96	Y1121-10TR-ND	800.85	Y112110R0000B9R
	0.25	73	0.01	100 ~ 1.0K	Y1121-(Value)CT-ND	16.38	12.78	Y1121-(Value)TR-ND	933.38	Y1121xxxxxxxT9R
	0.25	73	0.01	10K	Y1121-10KCT-ND	18.73	14.61	Y1121-10KTR-ND	1067.33	Y112110K0000T9R
SMR3D	0.6	180	0.1	10 ~ 50	Y1169-(Value)CT-ND	16.78	13.09	Y1169-(Value)TR-ND	956.18	Y1169xxxxxxxB9R
	0.6	180	0.01	100 ~ 20K	Y1169-(Value)CT-ND	19.13	13.03	Y1169-(Value)TR-ND	1139.60	Y1169xxxxxxxT9R
	0.4	180	0.01	50K	Y1169-50KCT-ND	21.62	14.72	Y1169-50KTR-ND	1288.00	Y116950K0000T9R

◊ For complete part number, subsitute value from Resistance Value Chart for (Value).

VSMP Ultra High Precision Bulk Metal Z-Foil® Wraparound SMT Chip Resistors

The VSMP Series product is the industry's first device to provide high rated power, excellent load life stability and low TCR all in one resistor. The VSMP Series utilizes high precision Bulk Metal® Z-Foil technology, which provides a significant reduction of the resistive element's sensitivity to ambient temperature variations (TCR) and to self-heating when power is applied (power coefficient). Along with the inherently low PCR and TCR, Z-Foil technology also provides remarkably improved load life stability, low noise and tight tolerance availability. The VSMP has a full wraparound termination which ensures safe handling during the manufacturing process, as well as providing stability during multiple thermal cyclings. **Features:** • Non capacitive design • Non inductive: < 0.08µH • Non hot spot design **Specifications:** • TCR: ±0.05ppm/°C typical (0°C ~ 60°C), ±0.2ppm/°C typical (-55°C ~ 125°C, 25°C Ref.) • PCR "ΔR due to self heating": 5ppm at rated power • Load Life Stability: ±0.005% @ 70°C, 2000H at rated power • Electrostatic Discharge (ESD): up to 25,000V • Short Time Overload: ≤ 0.005% (50ppm) • Rise Time: 1ns without ringing • Current Noise: -40dB • Voltage Coefficient: < 0.1ppm/V • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value) **Applications:** • Automatic Test Equipment (ATE) • High precision instrumentation • Laboratory, industrial and medical • Audio • EB applications (electron beam scanning and recording equipment, electron microscopes) • Military and space • Airborne • Down hole instrumentation • Communication

VSMP 0805, 1206, 2010 and 2512 Series Resistance Values

1K	100K
10K	150K
50K	

Series	Dimensions – mm L	W	T (Maximum)	D
0805	2.03	1.27	0.64	0.38
1206	3.20	1.57	0.64	0.51
2010	5.03	2.46	0.64	0.64
2512	6.32	3.23	0.64	0.81

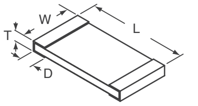

Series	Power Rating (W)	Tolerance (%)	Resistance Value (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	Digi-Key Part No.	Tape and Reel Pricing 100	Vishay Precision Group Part No.
0805	0.2	0.01	1K	Y1624-1KCT-ND	17.38	13.56	Y1624-1KTR-ND	990.38	Y16241K00000T9R
	0.2	0.01	10K	Y1624-10KCT-ND	18.52	12.61	Y1624-10KTR-ND	1103.20	Y162410K0000T9R
1206	0.3	0.01	1K	Y1625-1KCT-ND	16.98	13.25	Y1625-1KTR-ND	967.58	Y16251K00000T9R
	0.3	0.01	10K	Y1625-10KCT-ND	18.07	12.31	Y1625-10KTR-ND	1076.60	Y162510K0000T9R
	0.5	0.01	1K	Y1627-1KCT-ND	22.58	15.38	Y1627-1KTR-ND	1345.40	Y16271K00000T9R
2010	0.5	0.01	50K	Y1627-50KCT-ND	22.16	16.62	Y1627-50KTR-ND	1523.50	Y162750K0000T9R
	0.5	0.01	100K	Y1627-100KCT-ND	33.92	25.44	Y1627-100KTR-ND	2332.00	Y1627100K000T9R
2512	0.75	0.01	150K	Y1628-150KCT-ND	40.98	30.74	Y1628-150KTR-ND	2817.38	Y1628150K000T9R

Z201 Ultra High Precision Bulk Metal Z-Foil® Radial Resistors

The Z201 Bulk Metal® Z-Foil resistors are the third in a series of ultra-precision resistors since the first Bulk Metal® Z-Foil resistor was introduced by Vishay in 1962. Each series represents an improvement on the earlier model. The TCR slope of the Z201 is 0.2ppm/°C (-55°C ~ 125°C, 25°C Ref.) and is an order of magnitude better than the original S102C. The Bulk Metal® Z-Foil resistor is the ultimate choice in the most demanding analog applications. The Z-Foil technology provides a significant reduction of the resistive component's sensitivity to ambient temperature variations (TCR) and applied power changes (PCR). Designers can now guarantee a high degree of stability and accuracy in fixed-resistor applications using solutions based on Vishay's revolutionary Z-Foil technology. **Features:** • Non capacitive design • Non inductive: 0.8µH • Drop in replacement for S102C/K **Specifications:** • TCR: ±0.05ppm/°C typical (0°C ~ 60°C), ±0.2ppm/°C typical (-55°C ~ 125°C, 25°C Ref.) • PCR "ΔR due to self heating": ±5ppm at rated power • Load Life Stability: ±0.005% @ 70°C, 2000H at rated power • Electrostatic Discharge (ESD): up to 25,000V • Rise Time: 1.0ns without ringing • Current Noise: 0.01: -40dB • Thermal EMF: 0.1µV/°C maximum, 0.05µV/°C typical • Voltage Coefficient: < 0.1ppm/V • Maximum Working Voltage: 300V • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value) **Applications:** • Precision amplifiers, high precision instrumentation, medical and automatic test equipment • Laboratory, audio (high end stereo equipment) • EB applications, military, airborne and space • Down hole (high temperature)

Z201 Series Resistance Values

100	1.0K	10K

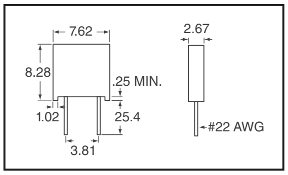

Series	Power Rating (W)	Tolerance (%)	Resistance Value (Ω)	Digi-Key Part No.◊	Price Each 1	25	100	Vishay Precision Group Part No.
Z201	0.6 @ 70°C/ 0.3 @ 125°C	±0.01	100 ~ 10K	Y1453-(Value)-ND	17.89	15.33	14.06	Y1453xxxxxxxT9L

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

S Series High Precision Bulk Metal Foil® Radial Resistors

Bulk Metal® Foil (BMF) technology out-performs all other resistor technologies available today for applications that require high precision and high stability. Model S Series BMF Resistors offer low TCR, excellent load life stability, tight tolerance, fast response time, low current noise, low thermal EMF and low voltage coefficient, all in one resistor. The S Series is virtually insensitive to destabilizing factors and is inherently stable and noise free. **Features:** • Non inductive, non capacitive design • Low Inductance: < 0.08 µH typical • Non hot spot design **Specifications:** • TCR: ±2ppm/°C typical (-55°C ~ 125°C, .25°C Ref.) • Load Life Stability: to ±0.005% at 70°C, 2000H at rated power • Electrostatic Discharge: up to 25,000V • Rise Time: 1ns without ringing • Current Noise: < -40dB • Thermal EMF: 0.05µV/°C typical • Voltage Coefficient: < 0.1 ppm/V • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value) **Applications:** • High precision amplifiers • Down-hole (high temperature) • High precision instrumentation • Medical and test equipment • Industrial • Audio (high end stereo equipment) • EB applications (electron beam scanning and recording equipment, electron microscopes) • Military, airborne • Measurement instrumentation

S102C Resistance Value Chart

10	10K
100	100K
1.0K	

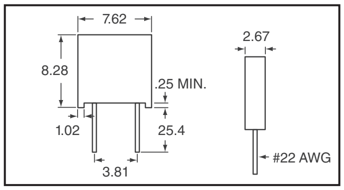

Series	Power Rating (W)	Working Voltage Maximum (V)	Average Weight (g)	Tolerance (%)	Resistance Range (Ω)	Digi-Key Part No.◊	Price Each 1	25	100	Vishay Precision Group Part No.
S102C	0.6 @ 70°C	300	0.6	±0.05	10	Y0007-10-ND	13.31	11.42	9.04	Y000710R0000A9L
	0.6 @ 70°C	300	0.6	±0.01	100 ~ 10K	Y0007-(Value)-ND	14.24	12.21	9.67	Y0007xxxxxxxT9L
	0.6 @ 70°C	300	0.6	±0.01	100K	Y0007-100K-ND	23.73	20.34	18.65	Y0007100K000T9L

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

LVR Series Low Value Wirewound Resistors

Features: • Ideal for all types of current sensing application including switching and linear power supplies, instruments, and power amplifiers • Excellent load life stability • Low temperature coefficient • Low inductance • Cooler operation for high power to size ratio • MIL-PRF-49465 Type RLV • Short Time Overload: 5X rated power for 5 seconds • Operating Temperature Range: ***LVR01 Series:*** -65°C ~ 175°C; ***LVR03 and LVR05 Series:*** -65°C ~ 275°C

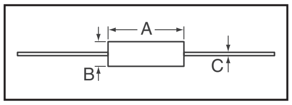

Series	Dimensions - mm		
	A	B (Max.)	C
LVR01	10.85	2.92	.508
LVR03	14.22	5.21	.813
LVR05	23.50	8.38	1.02

LVR01, 1% LVRA Resistance Values

.01◆	.05†
.03†	.10◆

LVR03, 1%, LVRB Resistance Values

.005◆	.015	.07◆	.15†
.01◆	.02†	.10◆	.20†

LVR05, 1%, LVRC Resistance Values

.005†	.025	.05◆	.15
.01◆	.03†	.07◆	.30
.015	.04	.10†	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Tape and Reel§		Vishay Part No.
				1	10	50	Qty.	Pricing	
LVR01, 1%, LVRA	1.0	.03 ~ .05	LVRA-(Value)CT-ND	1.56	14.04	65.52	1,000	1054.00	LVR01xxxxxFS70
LVR03, 1%, LVRB	3.0	.015	LVRB-.015CT-ND	1.66	14.94	69.72	1,000	972.00	LVR03xxxxxFS70
LVR03, 1%, LVRB	3.0	.15	LVRB-.15CT-ND	1.39	12.47	58.17	1,000	935.00	LVR03xxxxxFS70
LVR05, 1%, LVRC	5.0	.025 ~ .04	LVRC-(Value)CT-ND	1.76	15.84	73.92	500	630.00	LVR05xxxxxFS73
LVR05, 1%, LVRC	5.0	.10 ~ .30	LVRC-(Value)CT-ND	1.66	14.94	69.72	—	—	LVR05xxxxxFS73
RoHS Compliant									
LVR01, 1%, LVRA	1.0	.01 ~ .05	LVRA-(Value)RCT-ND	1.31	11.79	55.02	1,000	884.00	LVR01xxxxxFE70
LVR01, 1%, LVRA	1.0	.10	LVRA-.10RCT-ND	1.26	11.34	52.92	1,000	850.00	LVR01xxxxxFE70
LVR03, 1%, LVRB	3.0	.005	LVRB-.005RCT-ND	1.51	13.59	63.42	1,000	1020.00	LVR03xxxxxFE70
LVR03, 1%, LVRB	3.0	.01 ~ .02	LVRB-(Value)RCT-ND	1.31	11.79	55.02	1,000	884.00	LVR03xxxxxFE70
LVR03, 1%, LVRB	3.0	.07 ~ .20	LVRB-(Value)RCT-ND	1.26	11.34	52.92	1,000	850.00	LVR03xxxxxFE70
LVR05, 1%, LVRC	5.0	.005	LVRC-.005RCT-ND	1.81	16.29	76.02	500	648.00	LVR05xxxxxFE73
LVR05, 1%, LVRC	5.0	.01 ~ .03	LVRC-(Value)RCT-ND	1.61	14.49	67.62	500	576.00	LVR05xxxxxFE73
LVR05, 1%, LVRC	5.0	.05 ~ .10	LVRC-(Value)RCT-ND	1.51	13.59	63.42	500	540.00	LVR05xxxxxFE73

‡ For complete part number, substitute the value from Standard Resistor Values chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

RS Series Silicone Coated Wirewound Resistors

Features:

• High temperature coating (>350°C) • Complete welded construction • Meets applicable requirements of MIL-PRF-26 Type RW • Excellent stability in operation (typical resistance shift <0.5%) • Operating Temperature Range: -65°C ~ 250°C

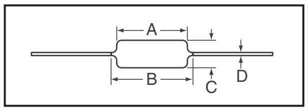

Series	Dimensions – mm			
	A	B (Max.)	C	D
RS01A	10.31	11.10	2.39	.508
RS02B	14.22	15.80	4.75	.813
RS005	22.23	25.40	7.92	1.02
RS010	45.21	47.50	9.53	1.02

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
RS01A	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 10KΩ/±20	5X Rated Power for 5 Seconds
RS02B	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 25KΩ/±20	
RS005	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	10X Rated Power for 5 Seconds
RS010	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	

RS01A, 1%, RSA Resistance Values

.10†	.75◆	15†	100†	1.5K	4.0K†
.13◆	1.0†	25◆	250†	1.8K	8.2K
.15◆	2.0◆	39†	350◆	2.2K†	10K†
.20◆	2.7†	47†	560◆	2.5K	
.25◆	3.0◆	50†	1.0K†	2.7K†	
.30◆	5.0◆	75†	1.1K	3.5K◆	

RS02B, 1%, RSB Resistance Values

.10◆	1.0◆	4.7◆	30◆	120◆	390◆	4.7K†
.15◆	1.5◆	5.0◆	47	150◆	500◆	5.0K†
.20◆	2.0◆	10◆	50◆	180◆	1.0K◆	6.0K
.25◆	3.0◆	12◆	56	220†	1.5K◆	6.8K
.30†	3.3◆	15†	75◆	270	2.2K†	8.2K
.33◆	3.9†	18†	82◆	330†	2.7K†	10K◆
.50◆	4.0†	25†	100◆	350◆	4.0K†	20K◆

RS005, 1%, RSC Resistance Values

.10◆	7.5†	300◆	3.5K◆	39K◆
.20◆	10◆	560◆	3.9K◆	47K◆
.30†	22◆	680†	5.6K◆	50K◆
3.9◆	25†	800◆	10K◆	100K◆
4.7◆	68†	2.0K◆	15K◆	
5.0◆	100◆	3.0K◆	20K◆	

RS010, 1%, RSD Resistance Values

.10◆	1.5◆	350	10K◆
.15◆	2.7	500	12.5K◆
.20◆	5.0◆	560†	20K◆
.25◆	10◆	1.5K◆	39K◆
.50◆	100◆	7.0K◆	100K◆
1.0◆	120	7.5K◆	

Descrip-tion	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Tape and Reel§		Vishay Part No.
				1	10	50	Qty.	Pricing	
RS01A 1%, RSA	1.0	.10	RSA-.10CT-ND	1.36	12.24	57.12	—	—	RS01AxxxxxFS70
	1.0	1.0~250	RSA-(Value)CT-ND	1.11	9.99	46.62	1,000	816.00	RS01AxxxxxFS70
	1.0	1.1K~3.5K	RSA-(Value)CT-ND	1.19	10.67	49.77	1,000	884.00	RS01AxxxxxFS70
	1.0	4.0K~8.2K	RSA-(Value)CT-ND	1.89	16.97	79.17	1,000	1275.00	RS01AxxxxxFS70
RS02B 1%, RSB	3.0	.30~.50	RSB-(Value)CT-ND	1.44	12.92	60.27	1,000	969.00	RS02BxxxxxFS70
	3.0	15~330	RSB-(Value)CT-ND	.89	7.97	37.17	1,000	663.00	RS02BxxxxxFS70
	3.0	2.2K~6.8K	RSB-(Value)CT-ND	1.06	9.54	44.52	1,000	782.00	RS02BxxxxxFS70
RS005 1%, RSC	5.0	7.5~680	RSC-(Value)CT-ND	1.49	13.37	62.37	500	406.00	RS005xxxxxFS73
RS010 1%, RSD	10	350~560	RSD-(Value)CT-ND	1.56	14.04	65.52	500	524.50	RS010xxxxxFS73
RoHS Compliant									
RS01A 1%, RSA	1.0	.10~.75	RSA-(Value)RCT-ND	1.36	12.24	57.12	1,000	918.00	RS01AxxxxxFE70
	1.0	1.0~1.0K	RSA-(Value)RCT-ND	1.11	9.99	46.62	1,000	748.00	RS01AxxxxxFE70
RS01A 1%, RSA	1.0	2.2K~3.5K	RSA-(Value)RCT-ND	1.19	10.67	49.77	1,000	799.00	RS01AxxxxxFE70
	1.0	4.0K~10K	RSA-(Value)RCT-ND	1.71	15.39	71.82	1,000	1156.00	RS01AxxxxxFE70

Descrip-tion	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Tape and Reel§		Vishay Part No.
				1	10	50	Qty.	Pricing	
RS02B 1%, RSB	3.0	.10~.50	RSB-(Value)RCT-ND	1.31	11.79	55.02	1,000	884.00	RS02BxxxxxFE70
	3.0	1.0~1.0K	RSB-(Value)RCT-ND	.89	7.97	37.17	1,000	595.00	RS02BxxxxxFE70
	3.0	1.5K~10K	RSB-(Value)RCT-ND	1.06	9.54	44.52	1,000	714.00	RS02BxxxxxFE70
	3.0	20K	RSB-20KRCT-ND	1.56	14.04	65.52	1,000	1054.00	RS02B20K00FE70
RS005 1%, RSC	5.0	.10~.30	RSC-(Value)RCT-ND	1.46	13.14	61.32	500	522.00	RS005xxxxxFE73
	5.0	3.9~800	RSC-(Value)RCT-ND	1.04	9.32	43.47	500	369.00	RS005xxxxxFE73
	5.0	2.0K~10K	RSC-(Value)RCT-ND	1.19	10.67	49.77	500	423.00	RS005xxxxxFE73
	5.0	15K~20K	RSC-(Value)RCT-ND	1.39	12.47	58.17	500	495.00	RS005xxxxxFE73
	5.0	39K~50K	RSC-(Value)RCT-ND	1.69	15.17	70.77	500	603.00	RS005xxxxxFE73
	5.0	100K	RSC-100KRCT-ND	4.26	38.34	178.92	500	1530.00	RS005100K0FE73
RS010 1%, RSD	10	.10~.50	RSD-(Value)RCT-ND	1.81	16.29	76.02	500	648.00	RS010xxxxxFE73
	10	1.0~560	RSD-(Value)RCT-ND	1.34	12.02	56.07	500	477.00	RS010xxxxxFE73
	10	1.5K~10K	RSD-(Value)RCT-ND	1.46	13.14	61.32	500	522.00	RS010xxxxxFE73
	10	12.5K~25K	RSD-(Value)RCT-ND	1.81	16.29	76.02	500	648.00	RS010xxxxxFE73
	10	39K	RSD-39KRCT-ND	2.09	18.77	87.57	500	747.00	RS01039K00FE73
	10	100K	RSD-100KRCT-ND	2.34	21.02	98.07	500	837.00	RS010100K0FE73

‡ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND. † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

NEW! PTF Series High Precision Metal Film Resistors

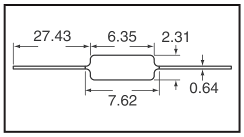

Features:

- Extremely low temperature coefficient of resistance
- Very low noise and voltage coefficient
- Very good high frequency characteristics
- Can replace wirewound bobbins
- Proprietary epoxy coating provides superior moisture protection

Resistance Values

1%, 10 PPM	1%, 5 PPM		.1%, 10 PPM				.1%, 5 PPM		.1%, 15 PPM	.02%, 15 PPM		.05%, 5 PPM	.01%, 15 PPM
45.3	200	24.9K	100	9.09K	20K	475K	887	20K	10K	681	22.1K	5.76K	10K
6.81K	1.00K	80.6K	120	10K	100K		1.0K	25.2K	15.4K	1.5K	59K	10K	
20.0K	1.50K	200K	1.0K	10.5K	150K		1.96K	100K	51.1K	5.23K	75K		
200K	10.0K	312K	2.0K	11K	312K		10K	200K		6.81K			

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Digi-Key Part No.‡	Tape and Reel Pricing	Vishay Part No.
				10	50	200		1,000	
PTF56, 1%, 10 PPM	0.125	45.3 ~ 200K	PTF(Value)ACT-ND	8.96	36.40	129.92	PTF(Value)ATR-ND	374.00	PTF56xxxxxxFYEB
PTF56, 1%, 5 PPM	0.125	200 ~ 312K	PTF(Value)BCT-ND	13.56	55.09	196.62	PTF(Value)BTR-ND	570.00	PTF56xxxxxxFZEB
PTF56, .1%, 10 PPM	0.125	100 ~ 1.0K	PTF(Value)CCT-ND	16.36	66.46	237.22	PTF(Value)CTR-ND	689.00	PTF56xxxxxxBYEB
PTF56, .1%, 10 PPM	0.125	2.0K ~ 100K	PTF(Value)CCT-ND	9.76	39.65	141.52	PTF(Value)CTR-ND	408.00	PTF56xxxxxxBYEB
PTF56, .1%, 10 PPM	0.125	150K ~ 475K	PTF(Value)CCT-ND	19.36	78.65	280.72	PTF(Value)CTR-ND	816.00	PTF56xxxxxxBYEB
PTF56, .1%, 5 PPM	0.125	887 ~ 1.96K	PTF(Value)DCT-ND	19.96	81.09	289.42	PTF(Value)DTR-ND	842.00	PTF56xxxxxxBZEB
PTF56, .1%, 5 PPM	0.125	10K ~ 100K	PTF(Value)DCT-ND	14.16	57.53	205.32	PTF(Value)DTR-ND	595.00	PTF56xxxxxxBZEB
PTF56, .1%, 5 PPM	0.125	200K	PTF200KDCT-ND	24.76	100.59	359.02	PTF200KDTR-ND	1046.00	PTF56200K00BZEB
PTF56, .1%, 15 PPM	0.125	10K ~ 51.1K	PTF(Value)ECT-ND	8.96	36.40	129.92	PTF(Value)ETR-ND	374.00	PTF56xxxxxxBXEB
PTF56, .02%, 15 PPM	0.125	681 ~ 75K	PTF(Value)FCT-ND	41.36	168.03	599.72	PTF(Value)FTR-ND	1751.00	PTF56xxxxxxQXEB
PTF56, .05%, 5 PPM	0.125	5.76K ~ 10K	PTF(Value)GCT-ND	27.56	111.96	399.62	PTF(Value)GTR-ND	1165.00	PTF56xxxxxxAZEB
PTF56, .01%, 15 PPM	0.125	10K	PTF10KHCT-ND	65.76	267.15	953.52	PTF10KHTR-ND	2788.00	PTF5610K000TXEB

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

VISHAY Dale CMF Series Industrial Metal Film Resistors

Features:

- Small size – conformal coated
- Flame retardant epoxy coating
- Controlled temperature coefficient
- Excellent high frequency characteristics
- Exceptionally low noise; typically 0.10 μV/V
- Low voltage coefficient to ±5ppm/Volt

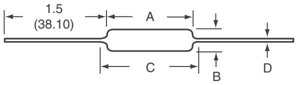

Series	Dimensions – Inches (mm)			
	A	B	C (Max.)	D
CMF50	0.150 ± 0.020 (3.81 ± 0.51)	0.065 ± 0.015 (1.65 ± 0.68)	0.187 (4.75)	0.016 ± 0.002 (0.41 ± 0.05)
CMF55	0.240 ± 0.020 (6.10 ± 0.51)	0.090 ± 0.008 (2.29 ± 0.20)	0.278 (7.06)	0.025 ±0.002 (0.64 ± 0.05)

Technical Specifications		
Series	**CMF50**	**CMF55**
Maximum Working Voltage	≤ 200V	≤ 250V
Insulation Voltage (1 min.)	> 500Veff	> 500Veff
Maximum Voltage Coefficient	±5ppm/Volt	±5ppm/Volt
Dielectric Strength	450VAC	450VAC
Insulation Resistance	≥10^{11}Ω	≥10^{11}Ω
Operating Temperature Range	-55°C ~ 175°C	-55°C ~ 175°C

CMF50 and CMF55, 1% Resistor Values

10.0	20.0	37.4	69.8	127	232	422	768	1.40K	2.55K	4.64K	8.45K	15.4K	28.0K	51.1K	93.1K	169K	316K	604K	1.13M	2.26M
10.2	20.5	38.3	71.5	130	237	432	787	1.43K	2.61K	4.75K	8.66K	15.8K	28.7K	52.3K	95.3K	174K	324K	619K	1.15M	2.32M
10.5	21.0	39.2	73.2	133	243	442	806	1.47K	2.67K	4.87K	8.87K	16.2K	29.4K	53.6K	97.6K	178K	332K	634K	1.18M	2.37M
10.7	21.5	40.2	75.0	137	249	453	825	1.50K	2.74K	4.99K	9.09K	16.5K	30.1K	54.9K	100K	182K	340K	649K	1.21M	2.43M
11.0	22.1	41.2	76.8	140	255	464	845	1.54K	2.80K	5.11K	9.31K	16.9K	30.9K	56.2K	102K	187K	348K	665K	1.24M	2.49M
11.3	22.6	42.2	78.7	143	261	475	866	1.58K	2.87K	5.23K	9.53K	17.4K	31.6K	57.6K	105K	191K	357K	681K	1.27M	2.61M
11.5	23.2	43.2	80.6	147	267	487	887	1.62K	2.94K	5.36K	9.76K	17.8K	32.4K	59.0K	107K	196K	365K	698K	1.30M	2.67M
11.8	23.7	45.3	82.5	150	274	499	909	1.65K	3.01K	5.49K	10.0K	18.2K	33.2K	60.4K	110K	200K	374K	715K	1.40M	2.74M
12.1	24.3	46.4	84.5	154	280	511	931	1.69K	3.09K	5.62K	10.2K	18.7K	34.0K	61.9K	113K	205K	383K	732K	1.43M	2.87M
12.4	24.9	47.5	86.6	158	287	523	953	1.74K	3.16K	5.76K	10.5K	19.1K	34.8K	63.4K	115K	210K	392K	750K	1.47M	3.01M
12.7	25.5	48.7	88.7	162	294	536	976	1.78K	3.24K	5.90K	10.7K	19.6K	35.7K	64.9K	118K	215K	402K	787K	1.50M	3.24M
13.0	26.1	49.9	90.9	165	301	549	1.00K	1.82K	3.32K	6.04K	11.0K	20.0K	36.5K	66.5K	121K	221K	412K	806K	1.54M	3.32M
13.3	26.7	51.1	93.1	169	309	562	1.02K	1.87K	3.40K	6.19K	11.3K	20.5K	37.4K	68.1K	124K	226K	422K	825K	1.58M	3.57M
13.7	27.4	52.3	95.3	174	316	576	1.05K	1.91K	3.48K	6.34K	11.5K	21.0K	38.3K	69.8K	127K	232K	432K	845K	1.65M	3.65M
14.7	28.0	53.6	97.6	178	324	590	1.07K	1.96K	3.57K	6.49K	11.8K	21.5K	39.2K	71.5K	130K	237K	442K	866K	1.69M	3.74M
15.0	29.4	54.9	100	182	332	604	1.10K	2.00K	3.65K	6.65K	12.1K	22.1K	40.2K	73.2K	133K	243K	453K	887K	1.74M	3.92M
16.2	30.1	56.2	102	187	340	619	1.13K	2.05K	3.74K	6.81K	12.4K	22.6K	41.2K	75.0K	137K	249K	475K	909K	1.82M	4.02M
16.5	30.9	57.6	105	191	348	634	1.15K	2.10K	3.83K	6.98K	12.7K	23.2K	42.2K	76.8K	140K	255K	487K	931K	1.87M	4.12M
16.9	31.6	59.0	107	196	357	649	1.18K	2.15K	3.92K	7.15K	13.0K	23.7K	43.2K	78.7K	143K	261K	499K	953K	1.91M	4.22M
17.4	32.4	60.4	110	200	365	665	1.21K	2.21K	4.02K	7.32K	13.3K	24.3K	44.2K	80.6K	147K	267K	511K	976K	1.96M	4.42M
17.8	33.2	61.9	113	205	374	681	1.24K	2.26K	4.12K	7.50K	13.7K	24.9K	45.3K	82.5K	150K	274K	536K	1.00M	2.00M	4.64M
18.2	34.0	63.4	115	210	383	698	1.27K	2.32K	4.22K	7.68K	14.0K	25.5K	46.4K	84.5K	154K	280K	549K	1.02M	2.05M	4.75M
18.7	34.8	64.9	118	215	392	715	1.30K	2.37K	4.32K	7.87K	14.3K	26.1K	47.5K	86.6K	158K	287K	562K	1.05M	2.10M	4.99M
19.1	35.7	66.5	121	221	402	732	1.33K	2.43K	4.42K	8.06K	14.7K	26.7K	48.7K	88.7K	162K	301K	576K	1.07M	2.15M	
19.6	36.5	68.1	124	226	412	750	1.37K	2.49K	4.53K	8.25K	15.0K	27.4K	49.9K	90.9K	165K	309K	590K	1.10M	2.21M	

CMF50, .1% Resistor Values

20	2.0K	20K
75	8.66K	40.2
133	10K	604K
280	11K	
1.0K	12.1K	

CMF55, .1% Resistor Values

67.3	8.25K	291K
78.7	8.45K	301K
100	9.2K	332K
120	10K	374K
169	10.7K	475K
750	18.4K	499K
1.0K	20K	787K
2.0K	30.1K	953K
3.32K	49.9K	
5.11K	60.4K	
5.3K	76.8K	
5.49K	100K	
6.34K	196K	
6.65K	200K	
7.5K	210K	
7.96K	249K	

Description	Wattage @ 70°C	Resistance Tolerance	Temperature Coefficient (ppm)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Digi-Key Part No.‡	Tape and Reel		Vishay Part No.
						1	10	50		Qty.	Pricing	
CMF50	0.25W	.1%	25	20 ~ 40.2K	CMF(Value)QBCT-ND ***NEW!***	.97	8.75	40.85	CMF(Value)QBTR-ND ***NEW!***	1,000	655.00	CMF50xxxxxxBEEB
CMF50	0.25W	.1%	25	604K	CMF604KQBCT-ND ***NEW!***	.45	4.03	18.80	CMF604KQBTR-ND ***NEW!***	1,000	298.00	CMF50xxxxxxBEEB
CMF50	0.25W	1%	50	10.0 ~ 100K	CMF(Value)QFCT-ND	.29	2.57	11.97	CMF(Value)QFTR-ND	1,000	187.00	CMF50xxxxxxFHEB
CMF50	0.25W	1%	50	102K ~ 499K	CMF(Value)QFCT-ND	.45	4.03	18.80	CMF(Value)QFTR-ND	1,000	298.00	CMF50xxxxxxFHEB
CMF55	0.50W	.1%	25	67.3 ~ 499K	CMF(Value)HBCT-ND ***NEW!***	.54	4.82	22.47	CMF(Value)HBTR-ND ***NEW!***	1,000	357.00	CMF55xxxxxxBEEB
CMF55	0.50W	.1%	25	787K ~ 953K	CMF(Value)HBCT-ND ***NEW!***	.94	8.42	39.27	CMF(Value)HBTR-ND ***NEW!***	1,000	629.00	CMF55xxxxxxBEEB
CMF55	0.50W	1%	50	10.0 ~ 1.00M	CMF(Value)HFCT-ND	.16	1.44	6.72	CMF(Value)HFTR-ND	1,000	102.00	CMF55xxxxxxFHEB
CMF55	0.50W	1%	50	1.02M ~ 4.99M	CMF(Value)HFCT-ND	.91	8.19	38.22	CMF(Value)HFTR-ND	1,000	612.00	CMF55xxxxxxFHEB

‡ For complete part number, substitute the value from Standard Resistor Values chart for (Value).

CW Series Silicone Coated Wirewound Resistors

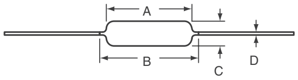

Features:

- High performance for low cost
- High temperature silicone coating
- Complete welded construction
- Excellent stability in operation
- High power to size ratio
- Operating Temperature Range: -65°C ~ 350°C

Series	Dimensions (mm)			
	A	B (Max.)	C	D
CW001	10.31	11.10	2.39	.508
CW02C	12.70	15.06	5.54	1.02
CW02B	14.27	15.80	4.78	.813
CW005	22.22	25.40	7.92	1.02
CW010	45.24	47.62	9.52	1.02

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
CW001	.15Ω ~ .50Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 4.7KΩ/±30	5X Rated Power for 5 Seconds
CW02C	.10Ω ~ .51Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 15KΩ/±30	
CW02B	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 15KΩ/±30	
CW005	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
CW010	.10Ω ~ .50Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±30	

CW001, 5%, CWA Resistance Values

.30◆	270
.50†	330
10†	390
15	560†
20†	820
40	4.7K†
47†	
68	
100†	
150†	

CW02B, 5%, CWC Resistance Values

.10†	27	180†	1.1K	4.7K†
.15†	30	200	1.2K	5.0K
.20†	35	220	1.5K	5.6K
.30◆	40	225	1.8K	6.0K
2.0◆	50†	250†	2.0K	6.8K
3.0	56†	270	2.2K	7.0K
4.0	75	330†	2.5K	7.5K
5.0†	100†	350†	3.0K	8.2K
7.5†	120	390	3.5K	9.0K
15◆	125	750	3.9K	12.5K
25	150†	820	4.0K	

CW02C, 5% CWB Resistance Values

.51	35	250	5.6K†
1.5	50†	270†	6.8K
2.0†	68†	300	8.2K
4.0	82	330	10K†
12†	100†	350	
15†	120	470	
20	150†	820	
22†	180	3.9K	
30	200	4.7K	
33†	220†	5.0K	

CW005, 5%, CWD Resistance Values

.10†	39†	7.5K◆
.20	50◆	10K◆
.30	68◆	15K◆
.33	100◆	18K◆
.50†	120◆	20K†
.51	200◆	25K†
.75	250◆	40K†
7.5◆	270◆	
10◆	1.0K◆	
35†	4.0K◆	

CW010, 5% CWE Resistance Values

.33	125
1.0◆	200
2.0†	330†
3.0◆	470†
4.7†	1.0K◆
5.0†	1.2K
7.5	1.5K◆
10◆	1.8K
25†	2.0K◆
27	2.2K
100†	40K◆

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Cut Tape Pricing			Tape and Reel§	
				1	10	50	Qty.	Pricing
CW001 5%, CWA	1.0	15 ~ 820	CWA-(Value)CT-ND	.45	4.05	18.90	1,000	299.00
	1.0	4.7K	CWA-4.7KCT-ND	.81	7.27	33.92	1,000	542.00
CW02B 5% CWC	3.75	3.0 ~820	CWC-(Value)CT-ND	.68	6.08	28.35	1,000	299.00
	3.75	1.1K ~ 3.0K	CWC-(Value)CT-ND	.74	6.62	30.87	1,000	337.00
	3.75	3.5K ~ 9.0K	CWC-(Value)CT-ND	.86	7.72	36.02	1,000	486.00
	3.75	12.5K	CWC-12.5KCT-ND	.92	8.26	38.54	—	—
CW02C 5%, CWB	3.25	1.5 ~ 820	CWB-(Value)CT-ND	.62	5.54	25.83	1,000	299.00
	3.25	3.9K ~ 10K	CWB-(Value)CT-ND	.78	7.02	32.76	1,000	486.00
CW005 5%, CWD	6.5	.20 ~ .75	CWD-(Value)CT-ND	.92	8.26	38.54	500	284.50
	6.5	4.0K	CWD-4.0KCT-ND	.78	7.02	32.76	—	—
	6.5	25K ~ 40K	CWD-(Value)CT-ND	1.19	10.73	50.09	500	396.00
CW010 5%, CWE	13	.33	CWE-.33CT-ND	1.59	14.33	66.89	—	—
	13	2.0 ~ 470	CWE-(Value)CT-ND	1.08	9.74	45.47	500	482.50
	13	1.2K ~ 2.2K	CWE-(Value)CT-ND	1.22	10.98	51.24	500	544.50
RoHS Compliant								
CW001 5%, CWA	1.0	.30 ~ .50	CWA-(Value)RCT-ND	.59	5.27	24.57	1,000	391.00
	1.0	10	CWA-10RCT-ND	.39	3.47	16.17	1,000	255.00
	1.0	20 ~ 560	CWA-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
	1.0	4.7K	CWA-4.7KRCT-ND	.74	6.62	30.87	1,000	493.00

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Cut Tape Pricing			Tape and Reel§	
				1	10	50	Qty.	Pricing
CW02B 5%, CWC	3.75	.10 ~ .30	CWC-(Value)RCT-ND	.58	5.22	24.36	1,000	388.00
	3.75	2.0 ~ 350	CWC-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
	3.75	4.7K	CWC-4.7KRCT-ND	.66	5.94	27.72	1,000	442.00
CW02C 5%, CWB	3.25	2.0 ~ 270	CWB-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
	3.25	5.6K ~ 10K	CWB-(Value)RCT-ND	.66	5.94	27.72	1,000	442.00
CW005 5%, CWD	6.5	.10 ~ .50	CWD-(Value)RCT-ND	.73	6.57	30.66	500	259.00
	6.5	7.5 ~ 1.0K	CWD-(Value)RCT-ND	.56	5.04	23.52	500	198.00
	6.5	4.0K ~10K	CWD-10KRCT-ND	.64	5.72	26.67	500	225.00
	6.5	15K ~20K	CWD-(Value)RCT-ND	.89	7.97	37.17	500	315.00
	6.5	25K ~ 40K	CWD-(Value)RCT-ND	1.01	9.09	42.42	500	360.00
CW010 5%, CWE	13	1.0 ~ 1.0K	CWE-(Value)RCT-ND	1.23	11.07	51.66	500	439.00
	13	1.5K ~ 2.0K	CWE-(Value)RCT-ND	1.39	12.47	58.17	500	495.00
	13	40K	CWE-40KRCT-ND	1.73	15.57	72.66	500	619.00

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND. † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

VISHAY Sfernice

RWM Series – Enamelled Wirewound Power Resistors

3 and 7 Watt

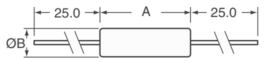

Series	Dimensions (mm) ±1 A	øB
RWM0410	12	5.5
RWM0622	18	6.5

Features:
• High dissipation • High reliability level: Fire proof, excellent endurance, conformal vitreous enamel, great mechanical strength, good environmental protection, and all welded construction • Low ohmic values. The performance of this series of professional resistors fully meets the requirements of the following specifications: NF C 83-210-001, CECC 40201-001 and BS-CECC 40201-002

Characteristics	
Temperature Coefficient	75ppm/°C Typical
Maximum Dissipation@ 70°C	RWM0410: 2.6W; RWM0622: 6W
Limiting Element Voltage	RWM0410: 120V; RWM0622: 350V
Resistance Tolerance	±5%

RWM04 Series
Resistance Value Chart

.10	.33	1.5	3.9	15	47	120	330	820	3.3K
.12	.39	1.8	4.7	22	56	150	390	1.0K	3.9K
.15	.47	2.2	6.8	27	68	180	470	1.2K	4.7K
.22	1.0	2.7	8.2	33	82	220	560	1.5K	10K
.27	1.2	3.3	10	39	100	270	680	2.2K	

RWM06 Series
Resistance Value Chart

.10	1.0	6.8	33	120	470	2.2K	6.8K
.15	1.8	10	47	150	560	2.7K	10K
.22	2.2	15	56	220	680	3.3K	15K
.33	3.3	22	68	330	1.0K	4.7K	18K
.47	4.7	27	100	390	1.5K	5.6K	

Description	Power Rating (W) @25°C	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	50	Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Part No.
RWM0410	3	.10 ~ .47	RWMA-(Value)CT-ND	.99	8.87	36.45	RWMA-(Value)TR-ND	266.00	RWM0410xxxxJR15E1
	3	1.0 ~ 2.7K	RWMA-(Value)CT-ND	1.25	8.85	33.40	RWMA-(Value)TR-ND	230.00	RWM0410xxxxJR15E1
	3	3.3K ~ 4.7K	RWMA-(Value)CT-ND	1.22	10.98	45.14	RWMA-(Value)TR-ND	329.00	RWM0410xxxxJR15E1
	3	10K	RWMA-10KCT-ND	1.20	11.09	47.74	RWMA-10KTR-ND	410.00	RWM0410xxxxJR15E1
RWM0622	7	.10 ~ .47, 15K, 18K	RWMB-(Value)CT-ND	1.27	11.74	50.53	RWMB-(Value)TB-ND‡	433.58	RWM0622xxxxJA15E1
	7	1.0 ~ 10K	RWMB-(Value)CT-ND	1.13	10.13	41.63	RWMB-(Value)TB-ND‡	303.75	RWM0622xxxxJA15E1

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Tape and Box

Heat Sink Mountable Thick Film Power Resistors

RTO 20F Series
Resistance Value Chart

.010	.47	47	4.7K
.015	1.0	100	10K
.046	2.2	220	100K
.068	4.7	470	1.0M
.10	10	1.0K	
.20	22	2.2K	

RTO 50F Series
Resistance Value Chart

.050	.50	10
.068	1.0	100
.10	2.0	1.0K
.20	5.0	10K

LTO 30F Series
Resistance Value Chart

.010	.068	4.7	47
.015	.10	5.0	100
.022	.47	10	1.0K
.047	1.0	15	10K
.050	2.2	22	

LTO 50F Series
Resistance Value Chart

.010	.10	5.0	1.0K
.022	.47	10	10K
.047	1.0	22	
.050	2.2	47	
.068	4.7	100	

LTO 100F Series
Resistance Value Chart

.015	.10	15
.022	1.0	100
.047	4.7	1.0K
.050	10	10K

NEW! **D2TO 35C Series**
Resistance Value Chart ***NEW!***

.010	.050	1.00	10.0	100
.015	.068	2.20	15.0	1.00K
.022	.100	4.70	22.0	
.047	.470	5.00	47.0	

RTO 20F and RTO 50F (TO-220)

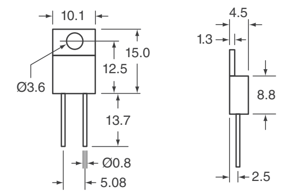

LTO 30F and LTO 50F (TO-220)

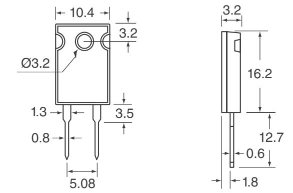

LTO 100F (TO-247)

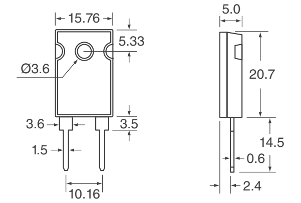

D2TO 35C (D2PAK) ***NEW!***

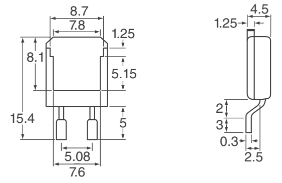

Series	Resistance Tolerance	Electrical Specifications Limiting Element Volt.	Dielectric Strength MIL STD 202	Insulation Resistance
RTO 20 **RTO 50**	±5% ±5%	250V 300V	2000VRMS, 1 minute, 10mA max. (Between terminal and heat sink)	≥10^6MΩ
LTO 30 **LTO 50** **LTO 100**	±5% ±5% ±5%	250V 250V 375V	1500VRMS, 1 minute, 10mA max. (Between terminal and heat sink)	≥10^4MΩ
D2TO 35C	±1%	250V	2000VRMS, 1 minute, 10mA max. (Between terminals and board)	≥10^6MΩ

Description	Nominal Power Rating (W) @ 25°C‡	Value Range (Ω)	Digi-Key Part No.†	Pricing 1	10	50	Vishay Part No.
RTO 20F	20	.010 ~ .046	RT20J-(Value)-ND	8.06	75.60	310.80	RTO020FxxxxxJTE3
	20	.068 ~ .10	RT20J-(Value)-ND	6.72	63.02	259.09	RTO020FxxxxxJTE3
	20	.20 ~ 1.0M	RT20J-(Value)-ND	6.07	54.85	233.40	RTO020FxxxxxJTE3
RTO 50F	50	.050 ~ .068	RT50J-(Value)-ND	8.65	81.09	333.37	RTO050FxxxxxJTE1
	50	.10 ~ 5.0	RT50J-(Value)-ND	7.86	73.73	303.12	RTO050FxxxxxJTE1
	50	10 ~ 10K	RT50J-(Value)-ND	6.55	61.43	252.53	RTO050FxxxxxJTE1
LTO 30F	30	.010 ~ .022	LT30J-(Value)-ND	6.20	58.14	239.02	LTO030FxxxxxJTE3
	30	.047 ~ .10	LT30J-(Value)-ND	5.60	50.62	215.40	LTO030FxxxxxJTE3
	30	.47 ~ 10K	LT30J-(Value)-ND	4.66	42.16	179.40	LTO030FxxxxxJTE3
LTO 50F	50	.010 ~ .022	LT50J-(Value)-ND	7.56	70.85	291.28	LTO050FxxxxxJTE3
	50	.047 ~ .10	LT50J-(Value)-ND	6.30	59.06	242.81	LTO050FxxxxxJTE3
	50	.47 ~ 10K	LT50J-(Value)-ND	5.69	51.39	218.70	LTO050FxxxxxJTE3
LTO 100F	100	.015 ~ .022	LT100J-(Value)-ND	12.13	110.24	427.18	LTO100FxxxxxJTE3
	100	.047, .10	LT100J-(Value)-ND	10.58	99.23	407.93	LTO100FxxxxxJTE3
	100	.050	LT100J-.050-ND	11.64	109.13	448.63	LTO100FxxxxxJTE3
	100	1.0 ~ 10K	LT100J-(Value)-ND	8.82	82.67	339.85	LTO100FxxxxxJTE3
D2TO 35C	35	.010 ~ .022	D2TO-(Value)A-ND ***NEW!***	14.93	135.70	525.84	D2TO035CxxxxxFTE3
	35	.047, .068 ~ .100	D2TO-(Value)A-ND ***NEW!***	12.44	113.12	438.34	D2TO035CxxxxxFTE3
	35	.050	D2TO-.050A-ND ***NEW!***	13.69	124.42	482.13	D2TO035CxxxxxFTE3
	35	.470 ~ 4.70, 10.0 ~ 1.00K	D2TO-(Value)A-ND ***NEW!***	11.31	106.00	435.77	D2TO035CxxxxxFTE3
	35	5.00	D2TO-5.00A-ND ***NEW!***	11.40	103.62	401.53	D2TO035CxxxxxFTE3

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Heat sink mounted

NEW! LPS Series Power Resistors for Heat Sink Mounting

Features: • Full rated power @ 85°C • Non-Inductive • Easy mounting • Low thermal radiation of the case

Specifications: • Limiting Element Voltage: 5kV • Insulation Resistance: ≥10^4MΩ • Inductance: ≤0.1µH

300W
Resistance Value Chart

1.0	10.0	100
4.7	47.0	470

600W
Resistance Value Chart

1.0	10	100
4.7	47	470

800W
Resistance Value Chart

1.0	10	100
4.7	47	470

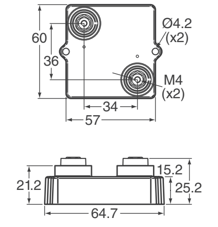

Power Rating (W) @ 85°C	Value Range (Ω)	Digi-Key Part No.†	Pricing 1	10	50	Vishay Part No.
300	1.0 ~ 470	LPS-(Value)A-ND	50.01	442.96	1929.02	LPS0300HxxxxJB
600	1.0 ~ 470	LPS-(Value)B-ND	74.09	656.22	2857.75	LPS0600HxxxxJB
800	1.0 ~ 470	LPS-(Value)C-ND	102.06	952.59	4422.73	LPS0800HxxxxJB

† For complete part number, substitute value from Resistance Value Chart for (Value).

VISHAY Dale

HL Series Tubular Wirewound Resistors

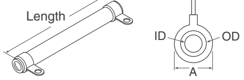

Features: • High temperature silicon coating • Complete welded construction • Excellent stability in operation (<3% change in resistance) • Operating Temperature Range: -55°C ~ 350°C

Series	Temperature Coefficient ppm/°C	Short Time Overload
HL025	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
HL050	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	
HL100	1.0Ω ~ 5.0Ω/±50 10Ω ~ 75KΩ/±30	
HL225	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	

Resistance Values
HL025, 5%, HLA

1.0	10	150	750	5.0K	50K
2.0	25	200	1.0K	10K	
3.0	50	250	2.5K	12K	
5.0	100	500	4.0K	25K	

	Dimensions (mm)			
		Core Dimensions		
Series	A (Max.)	Length	OD	ID
HL025	17.46	50.80	14.29	7.94
HL050	17.46	101.60	14.29	7.94
HL100	23.02	165.10	19.05	12.7
HL225	33.34	266.70	28.58	19.05

Resistance Values
HL050, 5%, HLB

1.0	10	150	750	5.0K	50K
2.0	25	200	1.0K	10K	
3.0	50	250	2.5K	12K	
5.0	100	500	4.0K	25K	

Resistance Values
HL100, 5%, HLC

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	75K

Resistance Values
HL225, 5%, HLD

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HL025, 5%, HLA	25	1.0 ~ 5.0K	HLA-(Value)-ND	2.37	2.15	1.94
HL025, 5%, HLA	25	10K	HLA-10K-ND	2.75	2.50	2.25
HL025, 5%, HLA	25	12K ~ 25K	HLA-(Value)-ND	2.97	2.70	2.43
HL025, 5%, HLA	25	50K	HLA-50K-ND	6.38	5.80	5.22
HL050, 5%, HLB	50	1.0 ~ 2.5K	HLB-(Value)-ND	3.74	3.40	3.06
HL050, 5%, HLB	50	4.0K ~ 12K	HLB-(Value)-ND	3.77	3.43	3.09
HL050, 5%, HLB	50	25K	HLB-25K-ND	4.02	3.65	3.29
HL050, 5%, HLB	50	50K	HLB-50K-ND	5.17	4.70	4.23
HL100, 5%, HLC	100	1.0 ~ 1.0K	HLC-(Value)-ND	7.15	6.50	5.85
HL100, 5%, HLC	100	2.5K ~ 25K	HLC-(Value)-ND	7.48	6.80	6.12
HL100, 5%, HLC	100	50K ~ 75K	HLC-(Value)-ND	8.20	7.45	6.71
HL225, 5%, HLD	225	1.0 ~ 50K	HLD-(Value)-ND	12.90	11.73	10.56
Mounting Bracket for HL025, HL050			BRACKET203-ND‡	2.52/2	8.40/10	31.50/50
Mounting Bracket for HL100			BRACKET206-ND‡	3.42/2	11.40/10	42.75/50
Mounting Bracket for HL225			BRACKET205-ND‡	3.78/2	12.60/10	47.25/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

HLT225 Series Tapped Tubular Wirewound Resistors

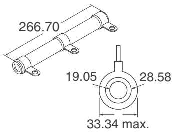

Features: • Fixed taps for voltage dividers • High temperature silicon coating • Complete welded construction • Excellent stability in operation (<3% change in resistance) • Can be used as multi-tap resistor • Operating Temperature Range: -55°C ~ 350°C

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
HLT225	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds

Resistance Values
HLT225, 10%, HLTA

10	50	250	1.0K
25	100	500	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLT225, 10%, HLTA	225	10 ~ 1.0K	HLTA-(Value)-ND	15.84	14.40	12.96
Mounting Bracket for HLT-225			BRACKET205-ND‡	3.78/2	12.60/10	47.25/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

HLW Series Tubular Wirewound Resistors

Features: • High temperature silicon coating • Complete welded construction • Excellent for intermittent power and pulsing applications • Excellent stability in operation (<3% change in resistance) • Operating Temperature Range: -55°C ~ 350°C

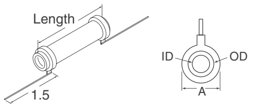

	Dimensions (mm)			
		Core Dimensions		
Series	A (Max.)	Length	OD	ID
HLW12	10.32	44.45	7.94	4.76
HLW20	14.29	50.80	11.11	7.94

Resistance Values
HLW12, 5%, HLWA

10
20
1.0K

Resistance Values
HLW20, 5%, HLWB

5.0	100	100K
10	20K	
50	50K	

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
HLW12	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds
HLW20	5.0Ω/±50 10Ω ~ 100KΩ/±30	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLW12, 5%, HLWA	12	10 ~ 1.0K	HLWA-(Value)-ND	2.28	2.08	1.87
HLW20, 5%, HLWB	20	5.0 ~ 20K	HLWB-(Value)-ND	3.38	3.08	2.77
HLW20, 5%, HLWB	20	50K ~ 100K	HLWB-(Value)-ND	3.52	3.20	2.88

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

HLZ 300 Series Edgewound Wirewound Resistors

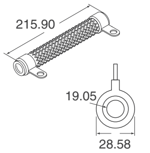

Features:
- High temperature silicon coating • Complete welded construction • Excellent for intermittent power and pulsing applications • Designed to meet heavy-duty requirement where space is at a premium • Excellent stability in operation (<3% change in resistance)
- Operating Temperature Range: -55°C ~ 350°C

Resistance Values
HLZ300, 10%, HLZA

.30	5.0	16
1.0	8.0	20
1.5	12	25

Series	Temperature Coefficient ppm/°C	Short Time Overload
HLZ300	.30Ω/±90 1.0Ω ~ 8.0Ω/±50 12Ω ~ 25Ω/±30	10X Rated Power for 5 Seconds

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLZ300, 10%, HLZA	300	.30 ~ 25	HLZA-(Value)-ND	19.17	17.43	15.69
Mounting Bracket for HLZ-300			BRACKET205-ND‡	3.78/2	12.60/10	47.25/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

RH Series Aluminum Housed Wirewound Resistors

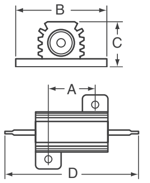

Specifications:
- Terminals: Copper clad steel core • Terminal finish: Tin/Lead 60/40 Sn/Pb with nickel underplate; Lead free Ni/Pd/Au • Operating Temperature Range: -55°C ~ 250°C

Features:
- Molded construction for total environmental protection • Complete welded construction
- Meets applicable requirements of MIL-PRF-18546 • Mounts on chassis to utilize heat-sink effect • Excellent stability in operation (<1% change in resistance)

	Dimensions (mm)				Temperature Coefficient (ppm/°C)	Short Time Overload
Series	A	B	C	D		
RH005	11.28	16.41	8.13	28.58	.10Ω ~ .50Ω / ±100	5X Rated Power for 5 Seconds
	11.28	16.41	8.13	28.58	1.0Ω ~ 5.0Ω / ±50	
	11.28	16.41	8.13	28.58	10Ω ~ 15KΩ / ±20	
RH010	14.27	20.32	9.91	34.93	.20Ω / ±100	
	14.27	20.32	9.91	34.93	1.0Ω ~ 2.0Ω / ±50	
	14.27	20.32	9.91	34.93	10Ω ~ 25KΩ / ±20	
RH025	18.26	27.43	13.87	49.23	.10Ω / ±100	
	18.26	27.43	13.87	49.23	1.0Ω ~ 3.0Ω / ±50	
	18.26	27.43	13.87	49.23	12Ω ~ 3KΩ / ±20	
RH050	39.67	28.96	15.49	70.64	.15Ω ~ .50 / ±100	
	39.67	28.96	15.49	70.64	1.0Ω ~ 8.0Ω / ±50	
	39.67	28.96	15.49	70.64	10Ω ~ 2.5KΩ / ±20	

Resistance Values
RH005, 1%, RHA

.10◆	10	100	2.0K
.50◆	12	150◆	10K
1.0◆	25	300◆	15K◆
5.0◆	30◆	390◆	

Resistance Values
RH010, 1%, RHB

.20	25◆	75◆	332◆	10K◆
1.0◆	33◆	100◆	1.0K◆	25K◆
2.0◆	35◆	300◆	2.0K	
10◆	50◆	330	2.5K	

Resistance Values
RH025, 1%, RHC

.10◆	20◆	300
1.0◆	25◆	500◆
3.0◆	40	1.0K◆
12	100◆	3.0K◆
15	200◆	

Resistance Values
RH050, 1% RHD

.15	1.0	5.0◆	16◆	250◆
.20	1.5◆	6.0	20◆	300◆
.25	2.0◆	8.0◆	30◆	500◆
.30	2.5◆	10◆	40◆	1.0K
.50◆	3.3◆	12◆	100◆	2.5K◆

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	50
RH005, 1%, RHA	5 (7.5)‡	10 ~ 25, 100, 2.0K	RHA-(Value)-ND	3.58	3.22	3.01
RH050, 1%, RHD	50	.25	RHD-.25-ND	9.78	8.80	8.22
RH050, 1%, RHD	50	1.0	RHD-1.0-ND	5.10	4.59	4.29
RoHS Compliant						
RH005, 1%, RHA	5 (7.5)‡	.10 ~ .50	RHRA-(Value)-ND	3.45	3.11	2.90
RH005, 1%, RHA	5 (7.5)‡	1.0 ~ 390	RHRA-(Value)-ND	3.25	2.93	2.73
RH005, 1%, RHA	5 (7.5)‡	2.0K ~ 10K	RHRA-(Value)-ND	3.23	2.91	2.71
RH005, 1%, RHA	5 (7.5)‡	15K	RHRA-15K-ND	3.38	3.04	2.84
RH010, 1%, RHB	10 (12.5)‡	.20	RHRB-.20-ND	6.40	5.76	5.38
RH010, 1%, RHB	10 (12.5)‡	1.0 ~ 1.0K	RHRB-(Value)-ND	2.28	2.05	1.92
RH010, 1%, RHB	10 (12.5)‡	2.0K ~ 10K	RHRB-(Value)-ND	2.38	2.14	2.00
RH010, 1%, RHB	10 (12.5)‡	25K	RHRB-25K-ND	3.28	2.95	2.76
RH025, 1%, RHC	25	.10	RHRC-.10-ND	7.23	6.51	6.07
RH025, 1%, RHC	25	1.0 ~ 1.0K	RHRC-(Value)-ND	3.78	3.40	3.18
RH025, 1%, RHC	25	3.0K	RHRC-3.0K-ND	3.03	2.73	2.55
RH050, 1%, RHD	50	.15 ~ .50	RHRD-(Value)-ND	8.88	7.99	7.46
RH050, 1%, RHD	50	1.0 ~ 1.0K	RHRD-(Value)-ND	4.63	4.17	3.89
RH050, 1%, RHD	50	2.5K	RHRD-2.5K-ND	3.93	3.54	3.30

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ◆ ***RoHS Compliant Only***
‡ Power rating indicates wattage printed on parts, new construction allows these resistors to be rated at higher wattage (listed in parentheses) but will only be printed with the higher wattage on customer request.

CADDOCK *ELECTRONICS, INC.*

MP Series TO-Style Power Film Resistors 15 Watts to 100 Watts

Features: • Non-Inductive design, ideal for Power Switching Circuits, Snubbers, Power Supplies, Industrial Controls, etc. • Values as low as 0.005Ω ideal for Current Sensing **RF Applications:** 50Ω performance up to 500MHz • Resistor element electrically isolated from the mounting surface **Dielectric Withstanding Voltage:** 1,500VAC **Insulation Resistance:** 10,000 MΩ minimum

Dimensions in Inches (mm)

MP915 — TO-126 Style, Case A

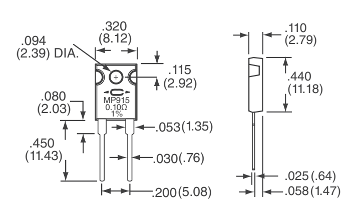

MP820 and MP821 — TO-220 Metal Tab Style, Case B

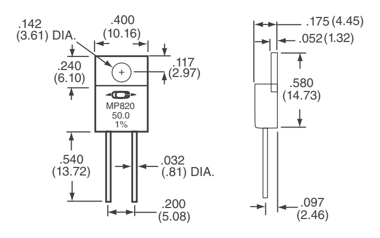

MP850 — TO-220 Metal Mounting Surface Style, Case C ***NEW!***

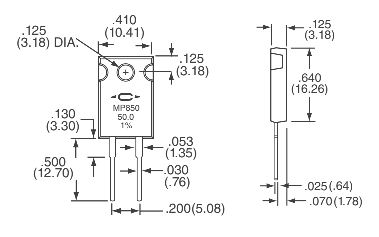

MP916, MP925 and MP930 — TO-220 Style, Case C

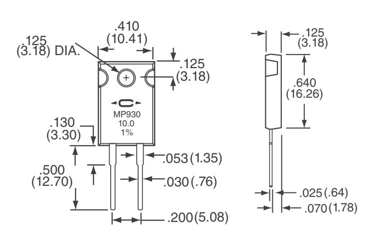

MP2060 — TO-220 Clip Mount Style, Case D

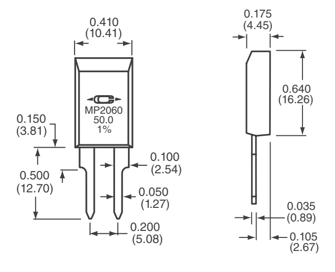

MP9100 — TO-247 Style, Case E

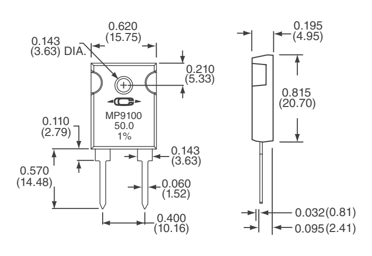

Power Ratings are based on 25°C case temperature. The case temperature is used to establish the maximum applied power, see Derating Curve. The case temperature measurement is made with a thermocouple contacting the bottom mounting surface of the package (center of heat dissipating surface), with the device mounted on the heat sink with thermal grease or thermal interface material.

Mounting Note: Mount on a smooth, clean, and flat heat sink surface with a thermal interface material such as thermal grease. The entire heat dissipating surface area must be in contact with the heat sink.

Screw Mounting: Mount with a compression washer (Belleville) that provides a force of 150 ~ 300 pounds. The maximum mounting torque to avoid damage to the package is 6 in-lbs (TO-126), 8 in-lbs (TO-220 and TO-247).

Clip Mounting: Recommended Clip Force is 8 ~ 30 pounds applied to the center of the package. The clip should be smooth to avoid any point concentrations of pressure. For more information, please see Digi-Key web site.

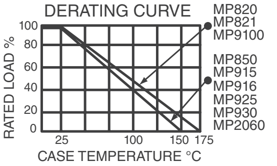

Temperature Coefficient:

MP915, MP916, MP925, MP930: ΔR taken at 150°C, referenced to 25°C
0.50Ω ~ 100K: -20 ~ +80ppm/°C   0.050Ω ~ 0.49Ω: 0 ~ +200ppm/°C
0.020Ω ~ 0.049Ω: 0 ~ +300ppm/°C   0.010Ω ~ 0.019Ω: 0 ~ +500ppm/°C

MP820 and MP821: ΔR taken at 175°C, referenced to 25°C
5.00Ω ~ 10.0KΩ: -20 ~ +50ppm/°C   0.50Ω ~ 4.99Ω: -20 ~ +80ppm/°C
0.050Ω ~ 0.49Ω: 0 ~ +200ppm/°C   0.020Ω ~ 0.049Ω: 0 ~ +300ppm/°C

MP850: ΔR taken at 150°C, referenced to 25°C
5.00 ~ 1K: -20 ~ +50ppm/°C   0.50Ω ~ 2.00: -20 ~ +80ppm/°C
0.20Ω: 0 ~ +200ppm/°C

MP2060: ΔR taken at 150°C, referenced to 25°C
0.50Ω ~ 1.00KΩ: -20 ~ +80ppm/°C   0.050Ω ~ 0.49Ω: 0 ~ +100ppm/°C
0.015Ω ~ 0.049Ω: 0 ~ +200ppm/°C   0.005Ω ~ 0.014Ω: 0 ~ +300ppm/°C

MP9100: ΔR taken at 175°C, referenced to 25°C
0.50Ω ~ 100Ω: -20 ~ +80ppm/°C   0.050Ω ~ 0.49Ω: 0 ~ +150ppm/°C

Resistance Values MP915

0.020	0.50	10.0	75.0	1.00K
0.050	1.00	20.0	100	
0.10	2.00	25.0	200	
0.20	5.00	50.0	500	

Resistance Values MP820

10.0	50.0	200	2.00K
20.0	75.0	500	5.00K
25.0	100	1.00K	10.0K

Resistance Values MP821

0.020	0.10	0.50	2.00
0.050	0.20	1.00	5.00

NEW! **Resistance Values MP850** ***NEW!***

0.20	2.00	20.0	75.0	500
0.50	5.00	25.0	100	1.00K
1.00	10.0	50.0	200	

Resistance Values MP925

5.00K	20.0K	100K
10.0K	50.0K	

Resistance Values MP930

0.020	1.00	25.0	500
0.050	2.00	50.0	1.00K
0.10	5.00	75.0	2.00K
0.20	10.0	100	
0.50	20.0	200	

Resistance Values MP2060

0.005	0.20	10.0	200
0.010	0.50	20.0	500
0.020	1.00	25.0	1.00K
0.050	2.00	50.0	
0.10	5.00	100	

Resistance Values MP9100

0.050	0.20	1.00	5.00	20.0	50.0	100
0.10	0.50	2.00	10.0	25.0	75.0	

Caddock Model	Case Type	Power Rating @ 25°C Case Temperature	Thermal Resistance	Maximum Continuous Operating Voltage	Range Ω	Tolerance %	Digi-Key Part No.◊	Price Each 1	10	25	50
MP915	A	15 Watts	8.33°C/Watt	200 Volts rms AC or Limited by sqrt(PxR)	0.020	5	MP915-0.020J-ND◆	4.43	3.94	3.45	3.16
MP915	A	15 Watts	8.33°C/Watt		0.050	1	MP915-0.050F-ND◆	4.43	3.94	3.45	3.16
MP915	A	15 Watts	8.33°C/Watt		0.10 ~ 0.50	1	MP915-(Value)F-ND◆	3.24	2.88	2.52	2.31
MP915	A	15 Watts	8.33°C/Watt		1.00 ~ 5.00	1	MP915-(Value)F-ND◆	3.08	2.74	2.40	2.20
MP915	A	15 Watts	8.33°C/Watt		10.0 ~ 1.00K	1	MP915-(Value)F-ND◆	2.77	2.46	2.16	1.97
MP820	B	20 Watts	7.50°C/Watt	300 Volts rms AC or Limited by sqrt(PxR)	10.0 ~ 10.0K	1	MP820-(Value)F-ND	5.76	5.12	4.48	4.10
MP821	B	20 Watts	7.50°C/Watt		0.020 ~ 0.050	1	MP821-(Value)F-ND	8.69	7.72	6.76	6.18
MP821	B	20 Watts	7.50°C/Watt		0.10 ~ 0.50	1	MP821-(Value)F-ND	8.69	7.72	6.76	6.18
MP821	B	20 Watts	7.50°C/Watt		1.00 ~ 5.00	1	MP821-(Value)F-ND	7.45	6.62	5.80	5.30
MP850	C	50 Watts	2.50°C/Watt		0.20 ~ 0.50	1	MP850-(Value)-F-ND◆ ***NEW!***	9.14	8.12	7.11	6.50
MP850	C	50 Watts	2.50°C/Watt		1.00 ~ 5.00	1	MP850-(Value)-F-ND◆ ***NEW!***	8.87	7.88	6.90	6.31
MP850	C	50 Watts	2.50°C/Watt		10.0 ~ 1.00K	1	MP850-(Value)-F-ND◆ ***NEW!***	7.92	7.04	6.16	5.64
MP916	C	16 Watts	7.81°C/Watt	Limited by sqrt(PxR)	0.010	5	MP916-0.010J-ND◆	6.89	6.12	5.36	4.90
MP925	C	25 Watts	5.00°C/Watt	500 Volts	5.00K ~ 100K	1	MP925-(Value)F-ND◆	3.53	3.14	2.75	2.52
MP930	C	30 Watts	4.17°C/Watt	250 Volts rms AC or Limited by sqrt(PxR)	0.020	5	MP930-0.020J-ND◆	5.63	5.00	4.38	4.00
MP930	C	30 Watts	4.17°C/Watt		0.050	1	MP930-0.050F-ND◆	5.63	5.00	4.38	4.00
MP930	C	30 Watts	4.17°C/Watt		0.10 ~ 0.50	1	MP930-(Value)F-ND◆	4.14	3.68	3.22	2.95
MP930	C	30 Watts	4.17°C/Watt		1.00 ~ 5.00	1	MP930-(Value)F-ND◆	3.94	3.50	3.07	2.80
MP930	C	30 Watts	4.17°C/Watt		10.0 ~ 2.00K	1	MP930-(Value)F-ND◆	3.51	3.12	2.73	2.50
MP2060	D	18 Watts	6.94°C/Watt		0.005	5	MP2060-0.005J-ND◆	9.83	8.74	7.65	7.00
MP2060	D	36 Watts	3.47°C/Watt		0.010	2	MP2060-0.010G-ND◆	9.36	8.32	7.28	6.66
MP2060	D	60 Watts	2.08°C/Watt		0.020 ~ 0.050	1	MP2060-(Value)F-ND◆	9.36	8.32	7.28	6.66
MP2060	D	60 Watts	2.08°C/Watt		0.10 ~ 0.50	1	MP2060-(Value)F-ND◆	8.35	7.42	6.50	5.94
MP2060	D	60 Watts	2.08°C/Watt		1.00 ~ 5.00	1	MP2060-(Value)F-ND◆	7.16	6.36	5.57	5.09
MP2060	D	60 Watts	2.08°C/Watt		10.0 ~ 1.00K	1	MP2060-(Value)F-ND◆	5.96	5.30	4.64	4.24
MP9100	E	100 Watts	1.50°C/Watt	Limited by sqrt(PxR)	0.050	1	MP9100-0.050F-ND◆	12.49	11.10	9.72	8.88
MP9100	E	100 Watts	1.50°C/Watt		0.10 ~ 0.50	1	MP9100-(Value)F-ND◆	11.90	10.58	9.26	8.47
MP9100	E	100 Watts	1.50°C/Watt		1.00 ~ 5.00	1	MP9100-(Value)F-ND◆	11.00	9.78	8.56	7.83
MP9100	E	100 Watts	1.50°C/Watt		10.0 ~ 20.0	1	MP9100-(Value)F-ND◆	10.08	8.96	7.84	7.17
MP9100	E	100 Watts	1.50°C/Watt		25.0 ~ 100	1	MP9100-(Value)F-ND◆	9.16	8.14	7.13	6.52

◊ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value). ◆ ***RoHS Compliant***

CADDOCK *ELECTRONICS, INC.*

NEW! Power Film and Current Sense Resistors

MP725 D-Pak Style Power Film Resistors

Dimensions in Inches (mm)

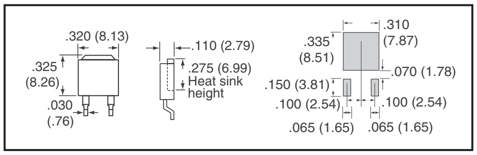

Features: • Non-Inductive Design - Ideal for Snubbers and RF Applications • Resistance Values as low as 0.020Ω 5% and 0.050Ω 1%, for Current Sensing Applications • Resistor element is isolated from Metal Mounting Tab (1500V ACrms) **Temperature Coefficient:** ΔR taken at 150°C, referenced to 25°C: • 0.50Ω ~ 1.00KΩ: -20 ~ 80ppm/°C • 0.050Ω ~ 0.20Ω: 0 ~ 200ppm/°C • 0.020Ω: 0 ~ 300ppm/°C

Resistance Values MP725

0.020	0.10	0.50	2.00	10.0	25.0	75.0	200	1.00K
0.050	0.20	1.00	5.00	20.0	50.0	100	500	

Caddock Model	Power Rating @ 25°C Case Temp	Thermal Resistance	Maximum Continuous Voltage (ACrms)	Range Ω	Toler-ance %	Digi-Key Part No.◊	Cut Tape Price Each 1	10	25	50	Digi-Key Part No.◊	Tape and Reel Pricing 250	Caddock Part No.
MP725	25 Watts	5.0°C/W	200 Volts	0.020	5	MP725-0.020-JCT-ND	7.13	6.34	5.55	5.08	MP725-0.020-JTR-ND	1109.50	MP725-0.020-5%
	25 Watts	5.0°C/W	200 Volts	0.050	1	MP725-0.050-FCT-ND	7.13	6.34	5.55	5.08	MP725-0.050-FTR-ND	1109.50	MP725-0.050-1%
	25 Watts	5.0°C/W	200 Volts	0.10 ~ 0.50	1	MP725-(Value)-FCT-ND	5.24	4.66	4.08	3.73	MP725-(Value)-FTR-ND	815.50	MP725-(Value)-1%
	25 Watts	5.0°C/W	200 Volts	1.00 ~ 5.00	1	MP725-(Value)-FCT-ND	4.97	4.42	3.87	3.54	MP725-(Value)-FTR-ND	773.50	MP725-(Value)-1%
	25 Watts	5.0°C/W	200 Volts	10.0 ~ 1.00K	1	MP725-(Value)-FCT-ND	4.46	3.96	3.47	3.17	MP725-(Value)-FTR-ND	693.00	MP725-(Value)-1%

◊ For complete part number, substitute value (from Resistance Value Chart) for (Value).

Note: The soldering profile must not cause the metal tab of this device to exceed 219°C, therefore this product is not compatible with most lead-free solder reflow processes. Power dissipation on glass epoxy pcb materials (FR-45, G-10) is limited due to the thermal resistance of these materials. For more information, please see Digi-Key web site.

SR10 and SR20 Precision Current Sense Resistors

Dimensions in Inches (mm)

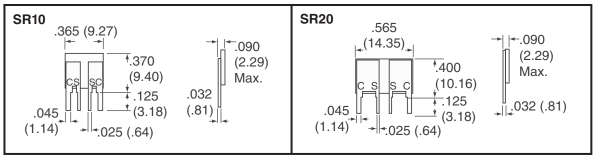

Features: • Kelvin (4-wire) Leads for Precision 1% Tolerance • Non-Inductive Designs • Compact Footprint • Excellent Stability - For more information, please see Digi-Key web site.

Temperature Coefficient: ΔR taken at -15°C and 105°C, referenced to 25°C:
• 0.10 ~ 1.00: -50 ~ 100ppm/°C • 0.050: 0 ~ 150ppm/°C • 0.008 ~ 0.020: 0 ~ 200ppm/°C • 0.005: 0 ~ 300ppm/°C

Resistance Values SR10

0.008	0.020	0.10	0.50
0.010	0.050	0.20	1.00

Resistance Values SR20

0.005	0.010	0.050	0.20	1.00
0.008	0.020	0.10	0.50	

Caddock Model	Power Rating @ 70°C	Maximum Continuous Voltage (ACrms)	Range Ω	Toler-ance %	Digi-Key Part No.◊	Cut Tape Price Each 1	10	25	50	Digi-Key Part No.◊	Tape and Reel Pricing 250	Caddock Part No.
SR10	1 Watt	Sqrt (PxR)	0.008 ~ 0.010	1	SR10-(Value)-FCT-ND	4.16	3.70	3.24	2.96	SR10-(Value)-FTR-ND	647.50	SR10-(Value)-1%
	1 Watt	Sqrt (PxR)	0.020 ~ 1.00	1	SR10-(Value)-FCT-ND	3.62	3.22	2.82	2.58	SR10-(Value)-FTR-ND	563.50	SR10-(Value)-1%
SR20	2 Watts	Sqrt (PxR)	0.005	1	SR20-0.005-FCT-ND	6.91	6.14	5.38	4.92	SR20-0.005-FTR-ND	1074.50	SR20-0.005-1%
	2 Watts	Sqrt (PxR)	0.008 ~ 0.010	1	SR20-(Value)-FCT-ND	5.99	5.32	4.66	4.26	SR20-(Value)-FTR-ND	931.00	SR20-(Value)-1%
	2 Watts	Sqrt (PxR)	0.020 ~ 1.00	1	SR20-(Value)-FCT-ND	5.22	4.64	4.06	3.72	SR20-(Value)-FTR-ND	812.00	SR20-(Value)-1%

◊ For complete part number, substitute value (from Resistance Value Chart) for (Value).

NEW! Ultra-Precision Resistors and Networks

USF300 Series Ultra-Precision Film Resistors

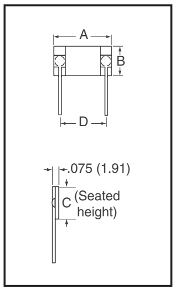

Features: • Outstanding Long Term Stability - For more information, please see Digi-Key web site. • Thermally Efficient Ceramic Sandwich Construction

Temperature Coefficient: ΔR taken at -40°C ~ 85°C, referenced to 25°C: 5ppm/°C

Operating Temperature: -40°C ~ 85°C

Resistance Values USF340

10.0K	1.00M
100K	10.0M

Resistance Values USF370

1.00M	5.00M	9.99M
2.00M	9.90M	10.0M

Resistance Values USF371

20.0M

Caddock Model	Range Ω	Toler-ance %	Maximum Continuous Operating Voltage	Power Rating @ 85°C	Dimensions — Inches (mm) A	B	C Max.	D	Digi-Key Part No.◊	Price Each 1	10	25	Caddock Part No.
USF340	1.00M, 10.0M	0.01	300VDC	0.33 W	.750 (19.05)	.375 (9.53)	.395 (10.03)	.600 (15.24)	USF340-(Value)-T-5PPM-ND†	18.17	15.57	14.54	USF340-(Value)-0.01%-5PPM
	10.0K	0.01	300VDC	0.33 W	.750 (19.05)	.375 (9.53)	.395 (10.03)	.600 (15.24)	USF340-10.0K-T-5PPM-ND†	10.96	9.39	8.77	USF340-10.0K-0.01%-5PPM
	100K	0.01	300VDC	0.33 W	.750 (19.05)	.375 (9.53)	.395 (10.03)	.600 (15.24)	USF340-100K-T-5PPM-ND†	12.23	10.49	9.79	USF340-100K-0.01%-5PPM
USF370	1.00M	0.01	1,400VDC	0.75 W	1.500 (38.10)	.500 (12.70)	.520 (13.21)	1.350 (34.29)	USF370-1.00M-T-5PPM-ND†	24.55	10.49	9.79	USF370-1.00M-0.01%-5PPM
	2.00M	0.01	1,400VDC	0.75 W	1.500 (38.10)	.500 (12.70)	.520 (13.21)	1.350 (34.29)	USF370-2.00M-T-5PPM-ND†	30.59	26.22	24.48	USF370-2.00M-0.01%-5PPM
	5.00M ~ 10.0M	0.01	1,400VDC	0.75 W	1.500 (38.10)	.500 (12.70)	.520 (13.21)	1.350 (34.29)	USF370-(Value)-T-5PPM-ND†	32.62	27.96	26.10	USF370-(Value)-0.01%-5PPM
USF371	20.0M	0.01	2,500VDC	0.75 W	1.500 (38.10)	.500 (12.70)	.520 (13.21)	1.350 (34.29)	USF371-20.0M-T-5PPM-ND†	35.82	30.71	28.66	USF371-20.0M-0.01%-5PPM

† Bulk ◊ For complete part number, substitute value (from Resistance Value Chart) for (Value).

HVD5 Ultra-Precision Voltage Dividers

Dimensions in Inches (mm)

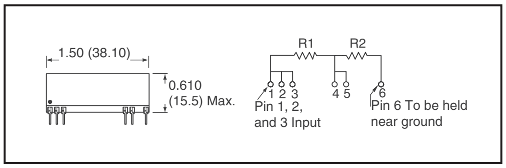

Features: • Outstanding Long Term Stability - For more information, please see Digi-Key web site. • Voltage Division Ratios: 100:1 or 1,000:1 **Temperature Coefficient:** ΔR taken at -40°C ~ 85°C, referenced to 25°C: 5ppm/°C maximum **Ratio Tolerance:** 0.05% **Ratio Voltage Coefficient:** 0.02ppm/Volt **Operating Temperature:** -40°C ~ 85°C

Caddock Model	Range Ω R1	R2	Max. Continuous Voltage Rating	Digi-Key Part No.	Price Each 1	10	25	Caddock Part No.
HVD5	19.98M	20K	2,500VDC	HVD5-A20M-050-05-ND†	37.19	31.88	29.75	HVD5-A20M-050-05
	19.8M	200K	2,500VDC	HVD5-B20M-050-05-ND†	37.19	31.88	29.75	HVD5-B20M-050-05

† Bulk

1776 Precision Decade Resistor Voltage Dividers

Dimensions in Inches (mm)

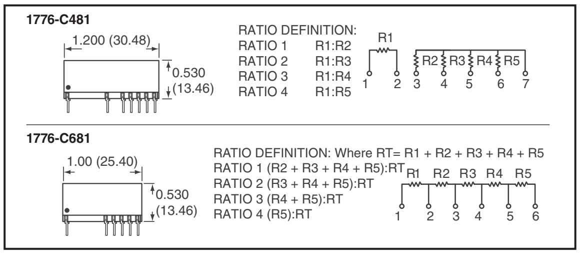

Features:

- Outstanding Long Term Stability - For more information, please see Digi-Key web site.
- Voltage Division Ratios: 10:1, 100:1, 1,000:1 and 10,000:1

Temperature Coefficient: ΔR taken at -40°C ~ 85°C, referenced to 25°C: 10ppm/°C maximum

Operating Temperature: -40°C ~ 85°C

Caddock Model	Range Ω R1	R2	R3	R4	R5	Ratio Toler-ance	Maximum Continuous Voltage Rating	Digi-Key Part No.	Price Each 1	10	25	Caddock Part No.
1776	10M	1.1111M	101.01K	10.01K	1.0001K	0.05%	1,200VDC	1776-C481-ND	14.70	12.60	11.76	1776-C481
	9M	900K	90K	9K	1K	0.05%	1,200VDC	1776-C681-ND	12.78	10.95	10.22	1776-C681

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SEI
Stackpole Electronics, Inc.
Resistive Product Solutions

RHC Series – High Power Thick Film Chip Resistors

Features:
- 2 Watts of power
- Runs significantly cooler than standard thick film 2512 chip

Dimensions in mm

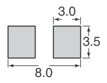
Solder Pad

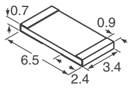

Type	Power Rating @ 70°C	Maximum Working Voltage	Temperature Coefficient
RHC2512	2 Watt	200	±100ppm/°C

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.1 (R100)	15 (15R0)	150 (150R)	1.5K (1K50)	15K (15K0)
1 (1R00)	22 (22R0)	220 (220R)	2.2K (2K20)	22K (22K0)
2.49 (2R49)	33 (33R0)	330 (330R)	3.3K (3K30)	33K (33K0)
4.99 (4R99)	47 (47R0)	470 (470R)	4.7K (4K70)	47K (47K0)
7.5 (7R50)	68 (68R0)	680 (680R)	6.8K (6K80)	68K (68K0)
10 (10R0)	100 (100R)	1K (1K00)	10K (10K0)	100K (100K)

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 4,000
0.1 ~ 7.5	2	1%	RHC2512FT(Code)CT-ND	1.15	1.04	.86	RHC2512FT(Code)TR-ND	302.45/M
10 ~ 100K	2	1%	RHC2512FT(Code)CT-ND	1.00	.90	.74	RHC2512FT(Code)TR-ND	266.00/M

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RNCS Series – Anti-Corrosive Tantalum Nitride Replacement Resistors

Features:
- Special passivation for moisture sensitive applications
- Test proven immunity to humidity and moisture corrosion
- Ideal replacement for costly tantalum nitride resistors

Type	Size Code	Dimensions — mm L	W	H	a	b
RNCS0603	0603	1.6 ±0.2	0.8 ±0.2	0.4 ±0.1	0.3 ±0.2	0.3 ±0.2
RNCS0805	0805	2.0 ±0.2	1.25 ±0.2	0.4 ±0.1	0.4 ±0.2	0.4 ±0.2
RNCS1206	1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.1	0.5 ±0.3	0.4 ±0.2

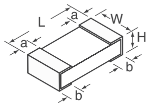

RESISTANCE VALUE CHART — RNCS0603 and RNCS0805 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R0)◊▲	249 (249R)†▲	1K (1K00)†▲	4.75K (4K75)†▲	20K (20K0)†▲	68.1K (68K1)†▲
49.9 (49R9)†▲	301 (301R)†▲	1.5K (1K50)†▲	4.99K (4K99)†▲	22.1K (22K1)†▲	75K (75K0)†▲
75 (75R0)†▲	332 (332R)†▲	2K (2K00)†▲	6.81K (6K81)†▲	24.9K (24K9)†▲	100K (100K)†▲
100 (100R)†▲	475 (475R)†▲	2.21K (2K21)†▲	7.5K (7K50)†▲	27.4K (27K4)†▲	150K (150K)†▲
121 (121R)†▲	499 (499R)†▲	2.49K (2K49)†▲	8.25K (8K25)†▲	30.1K (30K1)†▲	200K (200K)†▲
150 (150R)†▲	681 (681R)†▲	2.74K (2K74)†▲	10K (10K0)†▲	33.2K (33K2)†▲	249K (249K)†▲
200 (200R)†▲	750 (750R)†▲	3.01K (3K01)†▲	12.1K (12K1)†▲	47.5K (47K5)†▲	499K (499K)◊▲
221 (221R)†▲	825 (825R)†▲	3.32K (3K32)†▲	15K (15K0)†▲	49.9K (49K9)†▲	

RESISTANCE VALUE CHART — RNCS1206 Series

Value (Code)
10 (10R0)
100 (100R)
1K (1K00)
10K (10K0)
100K (100K)
1M (1M00)

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 1,000
49.9 ~ 249K	0.1	±0.1%	±25ppm/°C	RNCS0603BKE(Code)CT-ND	.70	4.75	14.38	RNCS0603BKE(Code)TR-ND	80.00
10 ~ 499K	0.125	±0.1%	±25ppm/°C	RNCS0805BKE(Code)CT-ND	.77	5.23	15.81	RNCS0805BKE(Code)TR-ND	88.00
10 ~ 1M	0.25	±0.1%	±25ppm/°C	RNCS1206BKE(Code)CT-ND	.84	5.70	17.25	RNCS1206BKE(Code)TR-ND	96.00

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Kits

† RNCS0603BTEKITKIT-ND	**RNCS 0603 Series Resistors Kit** (20 each of values denoted)	**$107.90**
▲ RNCS0805BTEKITKIT-ND	**RNCS 0805 Series Resistors Kit** (20 each of values denoted)	**$116.20**

HVC Series High Voltage Chip Resistors

Features:
- Voltage ratings to 40,000 volts • Utilizes fine film resistor deposition technology
- Superior pulse handling capabilities • Low TCR to 25 ppm/°C • Very low noise
- Ultra high stability

Series	Dimensions – mm L	W	H	a	b
HVCB1206	3.2 +.25/-.13	1.6 ±.13	0.76	.38 +.25/-.13	.38 +.25/-.13
HVCB2010	5.08 +.25/-.13	2.54 ±.13	0.76	.51 +.25/-.13	.51 +.25/-.13
HVCB2512	6.35 +.25/-.13	3.18 ±.13	0.76	.51 +.25/-.13	.51 +.25/-.13

RESISTANCE VALUE CHART

HVCB1206

Value (Code)	Value (Code)
10K (10K0)	2M (2M00)
100K (100K)	10M (10M0)
1M (1M00)	100M (100M)

HVCB2010

Value (Code)
1M (1M00)
10M (10M0)
100M (100M)

HVCB2512

Value (Code)	Value (Code)
100K(100L)	20M (20M0)
499K (499K)	100M (100M)
1M (1M00)	1G (1G00)
10M (10M0)	

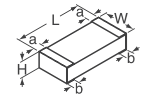

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 1,000
10K ~ 10M	1206	1/4	±1%	HVCB1206FKC(Code)CT-ND	3.24	2.93	2.61	2.34	HVCB1206FKC(Code)TR-ND	1170.00
100M	1206	1/4	±1%	HVCB1206FKC100MCT-ND	4.62	4.20	3.78	3.36	HVCB1206FKC100MTR-ND	1785.00
1M ~ 10M	2010	3/4	±1%	HVCB2010FKC(Code)CT-ND	3.47	3.15	2.84	2.52	HVCB2010FKC(Code)TR-ND	1338.75
100M	2010	3/4	±1%	HVCB2010FKC100MCT-ND	4.96	4.56	4.00	3.60	HVCB2010FKC100MTR-ND	2000.00
100K ~ 20M	2512	1	±1%	HVCB2512FKC(Code)CT-ND	3.63	3.30	2.97	2.64	HVCB2512FKC(Code)TR-ND	1402.50
100M, 1G	2512	1	±1%	HVCB2512FKC(Code)CT-ND	5.27	4.85	4.25	3.83	HVCB2512FKC(Code)TR-ND	2125.00

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

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Stackpole Electronics, Inc.
Resistive Product Solutions

RMCF Series General Purpose Thick Film Chip Resistors

Series	Size Code	Dimensions – mm L	W	H	a	b
RMCF	0402	1.0 ±.05	0.5 ±.05	0.35 ±.05	0.2 ±.10	0.25 +.05/-.10
	0603	1.6 ±.10	0.8 ±.10	0.45 ±.10	0.3 ±.20	0.3 ±.20
	0805	2.0 ±.20	1.25 ±.10	0.5 ±.15	0.4 ±.20	0.4 ±.20
	1206	3.2 ±.20	1.6 ±.15	0.55 ±.15	0.5 ±.25	0.5 ±.25
	1210	3.2 ±.20	2.5 ±.20	0.55 ±.15	0.5 ±.25	0.5 ±.25
	2010	5.0 ±.20	2.5 ±.20	0.55 ±.15	0.6 ±.25	0.6 ±.20
	2512	6.3 ±.20	3.2 ±.20	0.55 ±.15	0.6 ±.25	0.6 ±.25

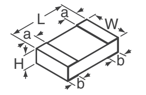

RESISTANCE VALUE CHART
0402, 1/16S, ±1%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	33.2 (33R2)	150 (150R)	1.5K (1K50)	8.25K (8K25)	49.9K (49K9)
10 (10R0)	49.9 (49R9)	249 (249R)	2K (2K00)	10K (10K0)	100K (100K)
15 (15R0)	100 (100R)	1K (1K00)	4.75K (4K75)	15K (15K0)	1M (1M00)

RESISTANCE VALUE CHART
0402, 1/16S, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R0)	100 (100R)	10K (10K0)	1M (1M00)
33 (33R0)	1K (1K00)	82K (82K0)	10M (10M0)
47 (47R0)	4.7K (4K70)	100K (100K)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 10,000
0	0402	1/16	—	RMCF0402ZT0R00CT-ND	.02	.17	.46	.70	RMCF0402ZT0R00TR-ND	1.32/M
10 ~ 1M	0402	1/16	±1%	RMCF0402FT(Code)CT-ND	.04	.25	.69	1.05	RMCF0402FT(Code)TR-ND	1.98/M
10 ~ 10M	0402	1/16	±5%	RMCF0402JT(Code)CT-ND	.02	.17	.46	.70	RMCF0402JT(Code)TR-ND	1.32/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART
0603, 1/10, ±1%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	49.9 (49R9)	169 (169R)	470 (470R)	1.24K (1K24)	2.49K (2K49)	4.32K (4K32)	6.81K (6K81)	11K (11K0)	22K (22K0)	33.2K (33K2)	60.4K (60K4)	124K (124K)	470K (470K)
8.2 (8R20)	51.1 (51R1)	200 (200R)	475 (475R)	1.33K (1K33)	2.61K (2K61)	4.53K (4K53)	6.98K (6K98)	12K (12K0)	22.1K (22K1)	35.7K (35K7)	61.9K (61K9)	127K (127K)	475K (475K)
10 (10R0)	54.9 (54R9)	220 (220R)	499 (499R)	1.5K (1K50)	2.7K (2K70)	4.7K (4K70)	7.15K (7K15)	12.1K (12K1)	22.6K (22K6)	36.5K (36K5)	66.5K (66K5)	130K (130K)	499K (499K)
15 (15R0)	56.2 (56R2)	221 (221R)	511 (511R)	1.54K (1K54)	2.74K (2K74)	4.75K (4K75)	7.5K (7K50)	12.4K (12K4)	23.7K (23K7)	39.2K (39K2)	68K (68K0)	150K (150K)	562K (562K)
20 (20R0)	68.1 (68R1)	237 (237R)	562 (562R)	1.8K (1K80)	2.87K (2K87)	4.87K (4K87)	7.87K (7K87)	13K (13K0)	24.3K (24K3)	40.2K (40K2)	68.1K (68K1)	162K (162K)	680K (680K)
22 (22R0)	75 (75R0)	243 (243R)	681 (681R)	1.82K (1K82)	3.01K (3K01)	4.99K (4K99)	8.25K (8K25)	13.3K (13K3)	24.9K (24K9)	42.2K (42K2)	75K (75K0)	200K (200K)	681K (681K)
22.1 (22R1)	82.5 (82R5)	249 (249R)	698 (698R)	1.87K (1K87)	3.09K (3K09)	5.1K (5K10)	8.45K (8K45)	14.3K (14K3)	26.1K (26K1)	43.2K (43K2)	78.7K (78K7)	221K (221K)	750K (750K)
24.9 (24R9)	84.5 (84R5)	274 (274R)	750 (750R)	1.91K (1K91)	3.16K (3K16)	5.11K (5K11)	8.87K (8K87)	14.7K (14K7)	27K (27K0)	46.4K (46K4)	82K (82K0)	237K (237K)	1M (1M00)
27.4 (27R4)	90.9 (90R9)	300 (300R)	806 (806R)	2K (2K00)	3.3K (3K30)	5.49K (5K49)	9.09K (9K09)	15K (15K0)	27.4K (27K4)	47K (47K0)	82.5K (82K5)	287K (287K)	1.5M (1M50)
33 (33R0)	100 (100R)	301 (301R)	825 (825R)	2.05K (2K05)	3.32K (3K32)	5.62K (5K62)	9.31K (9K31)	16.2K (16K2)	28.7K (28K7)	47.5K (47K5)	86.6K (86K6)	301K (301K)	2M (2M00)
33.2 (33R2)	110 (110R)	330 (330R)	1K (1K00)	2.2K (2K20)	3.4K (3K40)	6.04K (6K04)	9.76K (9K76)	16.5K (16K5)	30K (30K0)	49.9K (49K9)	90.9K (90K9)	309K (309K)	10M (10M0)
37.4 (37R4)	120 (120R)	332 (332R)	1.05K (1K05)	2.21K (2K21)	3.48K (3K48)	6.19K (6K19)	10K (10K0)	16.9K (16K9)	30.1K (30K1)	51K (51K0)	93.1K (93K1)	330K (330K)	
40.2 (40R2)	121 (121R)	392 (392R)	1.13K (1K13)	2.37K (2K37)	3.83K (3K83)	6.49K (6K49)	10.2K (10K2)	18.2K (18K2)	30.9K (30K9)	51.1K (51K1)	100K (100K)	332K (332K)	
47 (47R0)	130 (130R)	402 (402R)	1.2K (1K20)	2.4K (2K40)	3.92K (3K92)	6.65K (6K65)	10.5K (10K5)	19.6K (19K6)	31.6K (31K6)	53.6K (53K6)	105K (105K)	390K (390K)	
47.5 (47R5)	150 (150R)	464 (464R)	1.21K (1K21)	2.43K (2K43)	4.02K (4K02)	6.8K (6K80)	10.7K (10K7)	20K (20K0)	33K (33K0)	56.2K (56K2)	121K (121K)	392K (392K)	

RESISTANCE VALUE CHART
0603, 1/10, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	51 (51R0)	160 (160R)	390 (390R)	820 (820R)	2K (2K00)	3.9K (3K90)	7.5K (7K50)	22K (22K0)	68K (68K0)	220K (220K)	3M (3M00)
10 (10R0)	56 (56R0)	180 (180R)	470 (470R)	910 (910R)	2.2K (2K20)	4.7K (4K70)	8.2K (8K20)	27K (27K0)	82K (82K0)	330K (330K)	3.3M (3M30)
18 (18R0)	75 (75R0)	200 (200R)	510 (510R)	1K (1K00)	2.4K (2K40)	5.1K (5K10)	10K (10K0)	30K (30K0)	100K (100K)	470K (470K)	4.7M (4M70)
22 (22R0)	100 (100R)	220 (220R)	620 (620R)	1.2K (1K20)	2.7K (2K70)	5.6K (5K60)	12K (12K0)	33K (33K0)	150K (150K)	1M (1M00)	10M (10M0)
33 (33R0)	120 (120R)	270 (270R)	680 (680R)	1.5K (1K50)	3K (3K00)	6.2K (6K20)	15K (15K0)	47K (47K0)	180K (180K)	2M (2M00)	22M (22M0)
47 (47R0)	150 (150R)	330 (330R)	750 (750R)	1.8K (1K80)	3.3K (3K30)	6.8K (6K80)	20K (20K0)	51K (51K0)	200K (200K)	2.2M (2M20)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 5,000
0	0603	1/10	—	RMCF0603ZT0R00CT-ND	.02	.17	.46	.70	RMCF0603ZT0R00TR-ND	1.52/M
8.2 ~ 10M	0603	1/10	±1%	RMCF0603FT(Code)CT-ND	.04	.25	.69	1.05	RMCF0603FT(Code)TR-ND	2.28/M
1 ~ 22M	0603	1/10	±5%	RMCF0603JT(Code)CT-ND	.04	.25	.69	1.05	RMCF0603JT(Code)TR-ND	2.28/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART
0805, 1/8, ±1%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	68.1 (68R1)	249 (249R)	536 (536R)	1.5K (1K50)	2.49K (2K49)	4.32K (4K32)	6.65K (6K65)	11.8K (11K8)	24.3K (24K3)	47K (47K0)	90.9K (90K9)	221K (221K)	499K (499K)
1 (1R00)	75 (75R0)	267 (267R)	562 (562R)	1.62K (1K62)	2.7K (2K70)	4.42K (4K42)	6.8K (6K80)	12K (12K0)	24.9K (24K9)	47.5K (47K5)	95.3K (95K3)	226K (226K)	511K (511K)
10 (10R0)	82.5 (82R5)	270 (270R)	604 (604R)	1.65K (1K65)	2.74K (2K74)	4.53K (4K53)	6.81K (6K81)	12.1K (12K1)	26.1K (26K1)	49.9K (49K9)	97.6K (97K6)	249K (249K)	549K (549K)
15 (15R0)	86.6 (86R6)	274 (274R)	619 (619R)	1.69K (1K69)	2.8K (2K80)	4.64K (4K64)	7.32K (7K32)	12.4K (12K4)	26.7K (26K7)	51.1K (51K1)	100K (100K)	255K (255K)	576K (576K)
20 (20R0)	100 (100R)	287 (287R)	680 (680R)	1.78K (1K78)	2.87K (2K87)	4.7K (4K70)	7.5K (7K50)	13K (13K0)	27.4K (27K4)	52.3K (52K3)	102K (102K)	261K (261K)	680K (680K)
22.1 (22R1)	121 (121R)	301 (301R)	681 (681R)	1.8K (1K80)	3.01 (3K01)	4.75K (4K75)	7.87K (7K87)	13.7K (13K7)	28K (28K0)	54.9K (54K9)	118K (118K)	274K (274K)	681K (681K)
24.9 (24R9)	130 (130R)	324 (324R)	750 (750R)	1.82K (1K82)	3.16K (3K16)	4.87K (4K87)	8.06K (8K06)	14K (14K0)	30.1K (30K1)	56.2K (56K2)	121K (121K)	300K (300K)	750K (750K)
27.4 (27R4)	133 (133R)	330 (330R)	768 (768R)	2K (2K00)	3.3K (3K30)	4.99K (4K99)	8.2K (8K20)	14.3K (14K3)	30.9K (30K9)	60.4K (60K4)	124K (124K)	301K (301K)	909K (909K)
30.1 (30R1)	143 (143R)	332 (332R)	825 (825R)	2.05K (2K05)	3.32K (3K32)	5.1K (5K10)	8.25K (8K25)	15K (15K0)	33K (33K0)	61.9K (61K9)	127K (127K)	324K (324K)	1M (1M00)
33.2 (33R2)	150 (150R)	392 (392R)	909 (909R)	2.1K (2K10)	3.48K (3K48)	5.11K (5K11)	9.09K (9K09)	16.2K (16K2)	33.2K (33K2)	63.4K (63K4)	150K (150K)	332K (332K)	2M (2M00)
39.2 (39R2)	180 (180R)	422 (422R)	1K (1K00)	2.15K (2K15)	3.57K (3K57)	5.6K (5K60)	9.53K (9K53)	16.5K (16K5)	35.7K (35K7)	68.1K (68K1)	154K (154K)	357K (357K)	10M (10M0)
47.5 (47R5)	182 (182R)	464 (464R)	1.1K (1K10)	2.2K (2K20)	3.74K (3K74)	5.62K (5K62)	10K (10K0)	18.2K (18K2)	37.4K (37K4)	75K (75K0)	162K (162K)	392K (392K)	
49.9 (49R9)	200 (200R)	470 (470R)	1.15K (1K15)	2.21K (2K21)	3.83K (3K83)	6.04K (6K04)	10.5K (10K5)	19.1K (19K1)	39.2K (39K2)	80.6K (80K6)	174K (174K)	412K (412K)	
51.1 (51R1)	220 (220R)	475 (475R)	1.21K (1K21)	2.32K (2K32)	3.9K (3K90)	6.19K (6K19)	10.7K (10K7)	20K (20K0)	40.2K (40K2)	82.5K (82K5)	200K (200K)	432K (432K)	
56.2 (56R2)	221 (221R)	499 (499R)	1.24K (1K24)	2.37K (2K37)	3.92K (3K92)	6.34K (6K34)	11K (11K0)	22K (22K0)	45.3K (45K3)	84.5K (84K5)	205K (205K)	453K (453K)	
60.4 (60R4)	232 (232R)	511 (511R)	1.3K (1K30)	2.43K (2K43)	4.02K (4K02)	6.49K (6K49)	11.5K (11K5)	22.1K (22K1)	46.4K (46K4)	86.6K(86K6)	220K (220K)	475K (475K)	

RESISTANCE VALUE CHART
0805, 1/8, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	68 (68R0)	220 (220R)	470 (470R)	1.1K (1K10)	2.7K (2K70)	5.6K (5K60)	18K (18K0)	39K (39K0)	150K (150K)	1M (1M00)
1 (1R00)	75 (75R0)	240 (240R)	510 (510R)	1.2K (1K20)	3K (3K00)	6.2K (6K20)	20K (20K0)	43K (43K0)	180K (180K)	1.5M (1M50)
10 (10R0)	100 (100R)	270 (270R)	560 (560R)	1.5K (1K50)	3.3K (3K30)	6.8K (6K80)	22K (22K0)	47K (47K0)	200K (200K)	2M (2M00)
22 (22R0)	120 (120R)	330 (330R)	680 (680R)	1.8K (1K80)	3.6K (3K60)	8.2K (8K20)	24K (24K0)	51K (51K0)	220K (220K)	2.2M (2M20)
33 (33R0)	150 (150R)	360 (360R)	750 (750R)	2K (2K00)	3.9K (3K90)	9.1K (9K10)	27K (27K0)	56K (56K0)	330K (330K)	10M (10M0)
47 (47R0)	180 (180R)	390 (390R)	820 (820R)	2.2K (2K20)	4.7K (4K70)	10K (10K0)	30K (30K0)	68K (68K0)	470K (470K)	22M (22M0)
51 (51R0)	200 (200R)	430 (430R)	1K (1K00)	2.4K (2K40)	5.1K (5K10)	15K (15K0)	33K (33K0)	100K (100K)	510K (510K)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 5,000
0	0805	1/8	—	RMCF0805ZT0R00CT-ND	.03	.21	.58	.88	RMCF0805ZT0R00TR-ND	1.90/M
1 ~ 10M	0805	1/8	±1%	RMCF0805FT(Code)CT-ND	.04	.29	.81	1.23	RMCF0805FT(Code)TR-ND	2.66/M
1	0805	1/8	±5%	RMCF0805JT1R00CT-ND	.03	.21	.58	.88	RMCF0805JT1R00TR-ND	1.90/M
10 ~ 22M	0805	1/8	±5%	RMCF0805JT(Code)CT-ND	.03	.21	.58	.88	RMCF0805JT(Code)TR-ND	1.90/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

(Continued)

Stackpole Electronics, Inc.
Resistive Product Solutions

RMCF Series General Purpose Thick Film Chip Resistors *(Cont.)*

RESISTANCE VALUE CHART
1206, 1/4, ±1%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	33.2 (33R2)	115 (115R)	332 (332R)	681 (681R)	1.5K (1K50)	2.74K (2K74)	4.32K (4K32)	6.81K (6K81)	16.2K (16K2)	30.1K (30K1)	68.1K (68K1)	182K (182K)	475K (475K)
1 (1R00)	39.2 (39R2)	121 (121R)	348 (348R)	715 (715R)	1.82K (1K82)	3.01K (3K01)	4.53K (4K53)	7.5K (7K50)	16.5K(16K5)	33.2K (33K2)	75K (75K0)	200K (200K)	499K (499K)
4.75 (4R75)	47.5 (47R5)	150 (150R)	392 (392R)	750 (750R)	2K (2K00)	3.32K (3K32)	4.7K (4K70)	8.25K (8K25)	18.2K (18K2)	39.2K (39K2)	82.5K (82K5)	221K (221K)	511K (511K)
10 (10R0)	49.9 (49R9)	200 (200R)	470 (470R)	825 (825R)	2.15K (2K15)	3.4K (3K40)	4.75K (4K75)	9.09K (9K09)	20K (20K0)	40.2K (40K2)	100K (100K)	249K (249K)	1M (1M00)
12.1 (12R1)	51.1 (51R1)	221 (221R)	475 (475R)	909 (909R)	2.21K (2K21)	3.57K (3K57)	4.99K (4K99)	10K (10K0)	22.1K (22K1)	47.5K (47K5)	110K (110K)	267K (267K)	2.21M (2M21)
15 (15R0)	60.4 (60R4)	249 (249R)	499 (499R)	1K (1K00)	2.32K (2K32)	3.83K (3K83)	5.11K (5K11)	11.8K (11K8)	24.3K (24K3)	49.9K (49K9)	121K (121K)	301K (301K)	10M (10M0)
22.1 (22R1)	75 (75R0)	301 (301R)	562 (562R)	1.18K (1K18)	2.43K (2K43)	3.92K (3K92)	5.23K (5K23)	12.1K (12K1)	24.9K (24K9)	51.1K (51K1)	150K (150K)	332K (332K)	
24.9 (24R9)	100 (100R)	330 (330R)	619 (619R)	1.21K (1K21)	2.49K (2K49)	4.02K (4K02)	6.19K (6K19)	15K (15K0)	25.5K (25K5)	60.4K (60K4)	162K (162K)	392K (392K)	

RESISTANCE VALUE CHART
1206, 1/4, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	18 (18R0)	51 (51R0)	120 (120R)	270 (270R)	560 (560R)	1.8K (1K80)	3.9K (3K90)	10K (10K0)	33K (33K0)	75K (75K0)	220K (220K)	1.5M (1M50)
0.1 (100)	20 (20R0)	56 (56R0)	150 (150R)	300 (300R)	680 (680R)	2K (2K00)	4.7K (4K70)	12K (12K0)	39K (39K0)	82K (82K0)	270K (270K)	2M (2M00)
1 (1R00)	22 (22R0)	62 (62R0)	160 (160R)	330 (330R)	750 (750R)	2.2K (2K20)	5.1K (5K10)	15K (15K0)	47K (47K0)	100K (100K)	330K (330K)	2.2M (2M20)
3.3 (3R30)	24 (24R0)	68 (68R0)	180 (180R)	360 (360R)	820 (820R)	2.4K (2K40)	5.6K (5K60)	20K (20K0)	51K (51K0)	120K (120K)	470K (470K)	10M (10M0)
4.7 (4R70)	33 (33R0)	75 (75R0)	200 (200R)	390 (390R)	1K (1K00)	2.7K (2K70)	6.2K (6K20)	22K (22K0)	56K (56K0)	150K (150K)	680K (680K)	
10 (10R0)	39 (39R0)	82 (82R0)	220 (220R)	470 (470R)	1.2K (1K20)	3K (3K00)	6.8K (6K80)	24K (24K0)	62K (62K0)	180K (180K)	820K (820K)	
12 (12R0)	47 (47R0)	100 (100R)	240 (240R)	510 (510R)	1.5K (1K50)	3.3K (3K30)	8.2K (8K20)	27K (27K0)	68K (68K0)	200K (200K)	1M (1M00)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 5,000
0	1206	1/4	—	RMCF1206ZT0R00CT-ND	.05	.34	.92	1.40	RMCF1206ZT0R00TR-ND	3.04/M
1 ~ 10M	1206	1/4	±1%	RMCF1206FT(Code)CT-ND	.06	.44	1.21	1.84	RMCF1206FT(Code)TR-ND	3.99/M
0.1	1206	1/4	±5%	RMCF1206JTR100CT-ND	.54	3.68	10.50	16.88	RMCF1206JTR100TR-ND	45.00/M
1 ~ 10M	1206	1/4	±5%	RMCF1206JT(Code)CT-ND	.05	.34	.92	1.40	RMCF1206JT(Code)TR-ND	3.04/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART
1210, 1/3, ±1%

Value (Code)	Value (Code)
10 (10R0)	7.5K (7K50)
100 (100R)	10K (10K0)
1K (1K00)	100K (100K)

RESISTANCE VALUE CHART
1210, 1/3, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R0)	100 (100R)	180 (180R)	270 (270R)	470 (470R)	680 (680R)	2.2K (2K20)	33K (33K0)
22 (22R0)	120 (120R)	200 (200R)	330 (330R)	560 (560R)	1K (1K00)	2.7K (2K70)	100K (100K)
33 (33R0)	150 (150R)	220 (220R)	390 (390R)	620 (620R)	2K (2K00)	10K (10K0)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 4,000
10	1210	1/2	±1%	RMCF1210FT10R0CT-ND	.22	1.50	4.13	6.50	RMCF1210FT10R0TR-ND	16.50/M
100	1210	1/2	±1%	RMCF1210FT100RCT-ND	.22	1.50	4.13	6.50	RMCF1210FT100RTR-ND	16.50/M
1K ~ 100K	1210	1/3	±1%	RMCF1210FT(Code)CT-ND	.22	1.50	4.13	6.50	RMCF1210FT(Code)TR-ND	16.50/M
10	1210	1/2	±5%	RMCF1210JT10R0CT-ND	.21	1.47	4.03	6.13	RMCF1210JT10R0TR-ND	16.10/M
22 ~ 680	1210	1/2	±5%	RMCF1210JT(Code)CT-ND	.21	1.47	4.03	6.13	RMCF1210JT(Code)TR-ND	16.10/M
1K ~ 100K	1210	1/3	±5%	RMCF1210JT(Code)CT-ND	.21	1.47	4.03	6.13	RMCF1210JT(Code)TR-ND	16.10/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART
2010, 1/2, ±1%

Value (Code)	Value (Code)
0 (0R00)	1K (1K00)
1 (1R00)	10K (10K0)
10 (10R0)	100K (100K)
100 (100R)	

RESISTANCE VALUE CHART
2010, 1/2, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.1 (100)	20 (20R0)	43 (43R0)	100 (100R)	180 (180R)	470 (470R)	750 (750R)	1.2K (1K20)	2.2K (2K20)	10K (10K0)	100K (100K)
1 (1R00)	22 (22R0)	47 (47R0)	130 (130R)	220 (220R)	510 (510R)	820 (820R)	1.5K (1K50)	2.7K (2K70)	12K (12K0)	
10 (10R0)	33 (33R0)	51 (51R0)	150 (150R)	270 (270R)	560 (560R)	1K (1K00)	1.8K (1K80)	3.3K (3K30)	33K (33K0)	
15 (15R0)	39 (39R0)	68 (68R0)	160 (160R)	330 (330R)	680 (680R)	1.1K (1K10)	2K (2K00)	4.7K (4K70)	47K (47K0)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 4,000
0	2010	3/4	—	RMCF2010ZT0R00CT-ND	.33	2.25	6.19	9.75	RMCF2010ZT0R00TR-ND	24.75/M
1	2010	3/4	±1%	RMCF2010FT1R00CT-ND	.44	3.00	8.25	13.00	RMCF2010FT1R00TR-ND	33.00/M
10 ~ 100K	2010	3/4	±1%	RMCF2010FT(Code)CT-ND	.44	3.00	8.25	13.00	RMCF2010FT(Code)TR-ND	33.00/M
0.1	2010	3/4	±5%	RMCF2010JTR100CT-ND	1.05	7.42	28.00	49.00	RMCF2010JTR100TR-ND	186.20/M
1	2010	3/4	±5%	RMCF2010JT1R00CT-ND	.33	2.25	6.19	9.75	RMCF2010JT1R00TR-ND	24.75/M
10 ~ 100K	2010	3/4	±5%	RMCF2010JT(Code)CT-ND	.33	2.25	6.19	9.75	RMCF2010JT(Code)TR-ND	24.75/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART
2512, 1, ±5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	2 (2R00)	33 (33R0)	56 (56R0)	150 (150R)	270 (270R)	390 (390R)	1K (1K00)	2.2K (2K20)	3.9K (3K90)	10K (10K0)	100K (100K)
0.1 (100)	10 (10R0)	47 (47R0)	100 (100R)	180 (180R)	300 (300R)	470 (470R)	1.5K (1K50)	2.4K (2K40)	4.7K (4K70)	33K (33K0)	
1 (1R00)	20 (20R0)	51 (51R0)	120 (120R)	220 (220R)	330 (330R)	510 (510R)	2K (2K00)	3.3K (3K30)	6.8K (6K80)	47K (47K0)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 4,000
0	2512	1	—	RMCF2512ZT0R00CT-ND	.44	3.00	8.25	13.00	RMCF2512ZT0R00TR-ND	33.00/M
0.1	2512	1	±5%	RMCF2512JTR100CT-ND	.73	5.06	18.00	28.13	RMCF2512JTR100TR-ND	101.25/M
1	2512	1	—	RMCF2512JT1R00CT-ND	.44	3.00	8.25	13.00	RMCF2512JT1R00TR-ND	33.00/M
2 ~ 100K	2512	1	—	RMCF2512JT(Code)CT-ND	.44	3.00	8.25	13.00	RMCF2512JT(Code)TR-ND	33.00/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

CSRF Series – Foil on Ceramic Current Sensing Resistors

Features:

- Low inductance – typically less than 0.2nH
- TCR down to ±50 ppm/°C

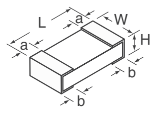

Type	Size Code	Dimensions (mm) L	W	H	a	b
CSRF1206	1206	3.2 ±0.2	1.6 ±0.2	0.8 ±0.15	0.5 ±0.15	0.5 ±0.15
CSRF2010	2010	5.0 ±0.2	2.5 ±0.2	0.8 ±0.15	0.5 ±0.15	0.5 ±0.15
CSRF2512	2512	6.5 ±0.33	3.2 ±0.2	0.8 ±0.15	1.0 ±0.15	1.0 ±0.15

Resistance Value Chart

CSRF1206 Value (Code)	CSRF2010 Value (Code)	CSRF2512 Value (Code)
0.005 (5L00)	0.006 (6L00)	0.005 (5L00)
0.01 (10L0)	0.008 (8L00)	0.01 (10L0)
		0.05 (50L0)

Resistance Range (Ω)	Wat-tage	Toler-ance	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 2,000
0.005 ~ 0.01	0.5	1%	CSRF1206FT(Code)CT-ND	.86	.61	.44	CSRF1206FT(Code)TR-ND	135.00/M
0.006 ~ 0.008	1	1%	CSRF2010FT(Code)CT-ND	1.35	.96	.72	CSRF2010FT(Code)TR-ND	239.40/M
0.005 ~ 0.05	2	1%	CSRF2512FT(Code)CT-ND	1.10	.99	.82	CSRF2512FT(Code)TR-ND	292.60/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Stackpole Electronics, Inc.
Resistive Product Solutions

RPC Series Pulse Withstanding Thick Film Chip Resistors

The RPC Series from Stackpole is a line of surge withstanding thick film chips. The RPC offers pulse power handling of greater than 10 times the equivalent standard thick film chip resistor in larger sizes.

Size Code	Dimensions – mm L	W	H	a	b
2010	5.00 ±0.15	2.50 ±0.15	0.55 ±0.15	0.30 ±0.20	0.60 ±0.20
2512	6.30 ±0.15	3.20 ±0.15	0.55 ±0.15	0.30 ±0.20	0.60 ±0.20

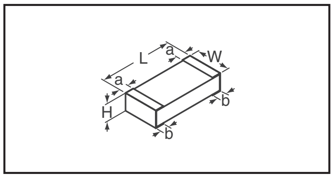

RPC 2010 RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	12 (12R0)	39 (39R0)	150 (150R)	470 (470R)
2.2 (2R20)	15 (15R0)	47 (47R0)	180 (180R)	680 (680R)
3.3 (3R30)	18 (18R0)	68 (68R0)	220 (220R)	820 (820R)
4.7 (4R70)	22 (22R0)	82 (82R0)	270 (270R)	1K (1K00)
6.8 (6R80)	27 (27R0)	100 (100R)	330 (330R)	10K (10K0)
10 (10R0)	33 (33R0)	120 (120R)	390 (390R)	

RPC 2512 RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	12 (12R0)	47 (47R0)	180 (180R)	680 (680R)
2.2 (2R20)	15 (15R0)	68 (68R0)	220 (220R)	820 (820R)
3.3 (3R30)	18 (18R0)	82 (82R0)	270 (270R)	1K (1K00)
4.7 (4R70)	22 (22R0)	100 (100R)	330 (330R)	10K (10K0)
6.8 (6R80)	33 (33R0)	120 (120R)	390 (390R)	
10 (10R0)	39 (39R0)	150 (150R)	470 (470R)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.§	Tape and Reel Pricing 4,000
1 ~ 10K	2010	3/4	±5%	RPC2010JT(Code)CT-ND	.70	4.75	14.38	23.75	RPC2010JT(Code)TR-ND	75.00/M
1 ~ 10K	2512	1	±5%	RPC2512JT(Code)CT-ND	.68	4.73	16.80	26.25	RPC2512JT(Code)TR-ND	94.50/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

CSS/CSSH Series – Ultra Precision Current Sensing Resistors

Features: • High temperature performance up to 275°C • Very low inductance • Excellent frequency response • Low thermal EMF (<1μV/°C)

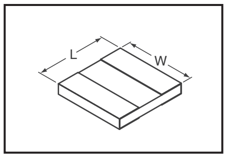

RESISTANCE VALUE CHART – CSS Series

Value (Code)	Value (Code)	Value (Code)
0.00025 (250)	0.001 (1L00)	0.003 (3L00)
0.0005 (500)	0.002 (2L00)	

RESISTANCE VALUE CHART – CSSH Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.004 (4L00)	0.01 (10L0)	0.025 (25L0)	0.05 (50L0)
0.005 (5L00)	0.02 (20L0)	0.03 (30L0)	

Series	Dimensions - mm L	W
CSS2725	6.80 ±.254	6.70 ±.254
CSSH2728	6.70 ±.254	6.70 ±.254

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 1,000
0.00025	4	±1%	±50 ppm/°C	CSS2725FTL250CT-ND	1.37	12.60	54.25	CSS2725FTL250TR-ND	465.50
0.0005	4	±1%	±50 ppm/°C	CSS2725FTL500CT-ND	1.29	11.88	51.15	CSS2725FTL500TR-ND	438.90
0.001 ~ 0.003	4	±1%	±25 ppm/°C	CSS2725FT(Code)CT-ND	1.17	10.80	46.50	CSS2725FT(Code)TR-ND	399.00
0.004 ~ 0.05	4	±1%	±25 ppm/°C†	CSSH2728FT(Code)CT-ND	1.21	11.16	48.05	CSSH2728FT(Code)TR-ND	412.30

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). † 0.01 ~ 0.05Ω values, TCR is ±15 ppm/°C

G

NEW! RNCP Series — High Power Anti-Sulfur Thin Film Chip Resistors

Features: • Absolute TCRs to ±100ppm/°C
• Impervious to Sulfur contamination, no silver present in terminations • Absolute tolerance to 1% • Comparable in cost to standard thick film chip resistors

Size Code	Dimensions – mm L	W	H	a	b
0603	1.50 ±0.20	0.80 ±0.10	0.40 ±0.10	0.30 ±0.15	0.40 ±0.20
0805	2.00 ±0.15	1.25 ±0.15	0.50 ±0.10	0.40 ±0.20	0.60 ±0.20
1206	3.10 ±0.20	1.50 ±0.20	0.50 ±0.10	0.50 ±0.20	0.70 ±0.20

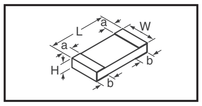

RESISTANCE VALUE CHART
0603 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	47.5 (47R5)	100 (100R)	274 (274R)	562 (562R)	1.1K (1K10)	2K (2K00)	3.32K (3K32)	4.87K (4K87)	7.5K (7K50)	12.1K (12K1)	20K (20K0)	33.2K (33K2)
4.7 (4R70)	49.9 (49R9)	121 (121R)	301 (301R)	604 (604R)	1.21K (1K21)	2.21K (2K21)	3.48K (3K48)	4.99K (4K99)	8.06K (8K06)	12.4K (12K4)	22.1K (22K1)	35.7K (35K7)
10 (10R0)	51.1 (51R1)	150 (150R)	332 (332R)	681 (681R)	1.3K (1K30)	2.32K (2K32)	3.92K (3K92)	5.11K (5K11)	8.25K (8K25)	13K (13K0)	24.3K (24K3)	37.4K (37K4)
15 (15R0)	56.2 (56R2)	180 (180R)	392 (392R)	750 (750R)	1.5K (1K50)	2.49K (2K49)	4.02K (4K02)	5.62K (5K62)	9.09K (9K09)	14K (14K0)	24.9K (24K9)	39.2K (39K2)
20 (20R0)	68.1 (68R1)	200 (200R)	475 (475R)	825 (825R)	1.65K (1K65)	2.74K (2K74)	4.32K (4K32)	6.04K (6K04)	10K (10K0)	15K (15K0)	27.4K (27K4)	40.2K (40K2)
22.1 (22R1)	75 (75R0)	221 (221R)	499 (499R)	909 (909R)	1.78K (1K78)	2.8K (2K80)	4.53K (4K53)	6.49K (6K49)	10.7K (10K7)	18.2K (18K2)	28K (28K0)	90.9K (90K9)
33.2 (33R2)	82.5 (82R5)	249 (249R)	511 (511R)	1K (1K00)	1.82K (1K82)	3.01K (3K01)	4.75K (4K75)	6.81K (6K81)	11K (11K0)	19.1K (19K1)	30.1K (30K1)	

RESISTANCE VALUE CHART
0805 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	49.9 (49R9)	150 (150R)	392 (392R)	825 (825R)	1.78K (1K78)	3.01K (3K01)	4.87K (4K87)	8.06K (8K06)	13K (13K0)	24.9K (24K9)	40.2K (40K2)	75K (75K0)
4.7 (4R70)	51.1 (51R1)	180 (180R)	475 (475R)	909 (909R)	1.82K (1K82)	3.32K (3K32)	4.99K (4K99)	8.25K (8K25)	14K (14K0)	27.4K (27K4)	47.5K (47K5)	82.5K (82K5)
10 (10R0)	56.2 (56R2)	200 (200R)	499 (499R)	1K (1K00)	2K (2K00)	3.48K (3K48)	5.11K (5K11)	9.09K (9K09)	15K (15K0)	28K (28K0)	49.9K (49K9)	90.9K (90K9)
15 (15R0)	68.1 (68R1)	221 (221R)	511 (511R)	1.1K (1K10)	2.21K (2K21)	3.92K (3K92)	5.62K (5K62)	10K (10K0)	18.2K (18K2)	30.1K (30K1)	51.1K (51K1)	
20 (20R0)	75 (75R0)	249 (249R)	562 (562R)	1.21K (1K21)	2.32K (2K32)	4.02K (4K02)	6.04K (6K04)	10.7K (10K7)	19.1K (19K1)	33.2K (33K2)	52.3K (52K3)	
22.1 (22R1)	82.5 (82R5)	274 (274R)	604 (604R)	1.3K (1K30)	2.49K (2K49)	4.32K (4K32)	6.49K (6K49)	11K (11K0)	20K (20K0)	35.7K (35K7)	56.2K (56K2)	
33.2 (33R2)	100 (100R)	301 (301R)	681 (681R)	1.5K (1K50)	2.74K (2K74)	4.53K (4K53)	6.81K (6K81)	12.1K (12K1)	22.1K (22K1)	37.4K (37K4)	61.9K (61K9)	
47.5 (47R5)	121 (121R)	332 (332R)	750 (750R)	1.65K (1K65)	2.8K (2K80)	4.75K (4K75)	7.5K (7K50)	12.4K (12K4)	24.3K (24K3)	39.2K (39K2)	68.1K (68K1)	

RESISTANCE VALUE CHART
1206 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	49.9 (49R9)	150 (150R)	392 (392R)	825 (825R)	1.78K (1K78)	3.01K (3K01)	4.87K (4K87)	8.06K (8K06)	13K (13K0)	24.9K (24K9)	40.2K (40K2)	75K (75K0)
4.7 (4R70)	51.1 (51R1)	180 (180R)	475 (475R)	909 (909R)	1.82K (1K82)	3.32K (3K32)	4.99K (4K99)	8.25K (8K25)	14K (14K0)	27.4K (27K4)	47.5K (47K5)	82.5K (82K5)
10 (10R0)	56.2 (56R2)	200 (200R)	499 (499R)	1K (1K00)	2K (2K00)	3.48K (3K48)	5.11K (5K11)	9.09K (9K09)	15K (15K0)	28K (28K0)	49.9K (49K9)	90.9K (90K9)
15 (15R0)	68.1 (68R1)	221 (221R)	511 (511R)	1.1K (1K10)	2.21K (2K21)	3.92K (3K92)	5.62K (5K62)	10K (10K0)	18.2K (18K2)	30.1K (30K1)	51.1K (51K1)	
20 (20R0)	75 (75R0)	249 (249R)	562 (562R)	1.21K (1K21)	2.32K (2K32)	4.02K (4K02)	6.04K (6K04)	10.7K (10K7)	19.1K (19K1)	33.2K (33K2)	52.3K (52K3)	
22.1 (22R1)	82.5 (82R5)	274 (274R)	604 (604R)	1.3K (1K30)	2.49K (2K49)	4.32K (4K32)	6.49K (6K49)	11K (11K0)	20K (20K0)	35.7K (35K7)	56.2K (56K2)	
33.2 (33R2)	100 (100R)	301 (301R)	681 (681R)	1.5K (1K50)	2.74K (2K74)	4.53K (4K53)	6.81K (6K81)	12.1K (12K1)	22.1K (22K1)	37.4K (37K4)	61.9K (61K9)	
47.5 (47R5)	121 (121R)	332 (332R)	750 (750R)	1.65K (1K65)	2.8K (2K80)	4.75K (4K75)	7.5K (7K50)	12.4K (12K4)	24.3K (24K3)	39.2K (39K2)	68.1K (68K1)	

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Cut Tape Pricing 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 5,000
1 ~ 90.9K	0.125	1%	±100ppm/°C	RNCP0603FTD(Code)CT-ND	.05	.38	1.04	RNCP0603FTD(Code)TR-ND	3.42/M
1 ~ 90.9K	0.250	1%	±100ppm/°C	RNCP0805FTD(Code)CT-ND	.07	.46	1.27	RNCP0805FTD(Code)TR-ND	4.18/M
1 ~ 90.9K	0.500	1%	±100ppm/°C	RNCP1206FTD(Code)CT-ND	.09	.65	1.78	RNCP1206FTD(Code)TR-ND	5.89/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SEI
Stackpole Electronics, Inc.
Resistive Product Solutions

CSNL Series – Metal Foil Current Sensing Resistors

Digi-Reel® RoHS COMPLIANT

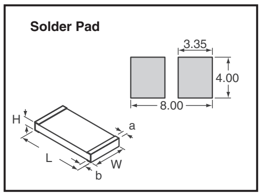

Features:

- Low inductance – typically less than 0.1nH
- TCR down to ±50ppm/°C
- Dielectric Withstanding Voltage: 200V

Resistance Value Chart

CSNL1206 Value (Code)	CSNL2010 Value (Code)	CSNL2512 Value (Code)	CSNL2512 Value (Code)
0.001 (1L00)	0.001 (1L00)	0.0005 (L500)	0.004 (4L00)
0.002 (2L00)	0.002 (2L00)	0.001 (1L00)	0.005 (5L00)
0.003 (3L00)	0.003 (3L00)	0.002 (2L00)	0.007 (7L00)
	0.005 (5L00)	0.003 (3L00)	

Type	Size Code	Dimensions - mm L	W	H	a	b
CSNL1206	1206	3.20 ±0.25	1.60 ±0.1	0.6 ±0.2	0.98 ±0.38	0.98 ±0.38
CSNL2010	2010	5.08 ±0.25	2.54 ±0.15	0.6 ±0.2	1.67 ±0.63	1.67 ±0.63
CSNL2512 (0.0005Ω)	2512	6.35 ±0.25	3.18 ±0.25	1.4 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.001Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.8 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.002Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.5 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.003Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.7 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.004Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.6 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.005Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.5 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2512 (0.007Ω)	2512	6.35 ±0.25	3.18 ±0.25	0.45 ±0.2	1.3 ±0.3	1.3 ±0.3

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 2,000
0.001 ~ 0.003	1	1%	CSNL1206FT(Code)CT-ND	1.05	.75	.56	CSNL1206FT(Code)TR-ND	186.20/M
0.001 ~ 0.005	1.5	1%	CSNL2010FT(Code)CT-ND	1.05	.75	.56	CSNL2010FT(Code)TR-ND	186.20/M
0.0005	2	1%	CSNL2512FTL500CT-ND	1.00	.90	.74	CSNL2512FTL500TR-ND	266.00/M
0.001 ~ 0.007	2	1%	CSNL2512FT(Code)CT-ND	1.05	.75	.56	CSNL2512FT(Code)TR-ND	186.20/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

CSR/CSRN Series – Thick Film Current Sensing Resistors

Digi-Reel® RoHS COMPLIANT

Features:

- Power ratings to 3 Watts • Low inductance – less than 0.2nH typically

Type	Size Code	Dimensions – mm (maximum) A	B	C	a	b	L	W	D
CSR0603	0603	1.600	0.800	0.450	0.300	0.300	2.10	1.10	0.70
CSR0805	0805	2.000	1.250	0.550	0.300	0.400	2.70	1.40	1.00
CSR1206	1206	3.20	1.803	0.66	0.814	0.66	4.00	2.00	1.80
CSRN2010	2010	5.156	2.692	0.712	0.915	0.762	6.35	3.68	1.40
CSRN2512	2512	6.40	3.225	0.686	0.889	0.762	8.00	4.00	1.40

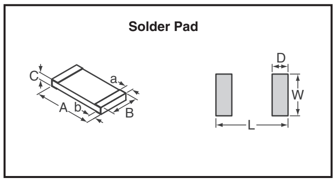

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 1,000
0.02 ~ 0.03	.125	1%	±300 ppm/°C	CSR0603FK(Code)CT-ND✔	.78	.54	.39	CSR0603FK(Code)TR-ND✔	112.00
0.05 ~ 0.075	.125	1%	±300 ppm/°C	CSR0603FK(Code)CT-ND✔	.84	.57	.35	CSR0603FK(Code)TR-ND✔	96.00
0.1 ~ 0.3	.125	1%	±300 ppm/°C	CSR0603FK(Code)CT-ND✔	.56	.38	.23	CSR0603FK(Code)TR-ND✔	64.00
0.5 ~ 1	.125	1%	±300 ppm/°C	CSR0603FK(Code)CT-ND✔	.44	.30	.18	CSR0603FK(Code)TR-ND✔	36.00
0.02 ~ 0.03	.250	1%	±200 ppm/°C	CSR0805FK(Code)CT-ND✔	.78	.54	.39	CSR0805FK(Code)TR-ND✔	112.00
0.05	.250	1%	±200 ppm/°C	CSR0805FK50L0CT-ND✔	1.12	.76	.46	CSR0805FK50L0TR-ND✔	128.00
0.075	.250	1%	±200 ppm/°C	CSR0805FK75L0CT-ND✔	.84	.57	.35	CSR0805FK75L0TR-ND✔	96.00
0.1 ~ 0.3	.250	1%	±200 ppm/°C	CSR0805FK(Code)CT-ND✔	.56	.38	.23	CSR0805FK(Code)TR-ND✔	64.00
0.5 ~ 1	.250	1%	±200 ppm/°C	CSR0805FK(Code)CT-ND✔	.44	.30	.18	CSR0805FK(Code)TR-ND✔	36.00
0.01 ~ 0.02	0.5	1%	±100 ppm/°C	CSR1206FK(Code)CT-ND	.78	.54	.39	CSR1206FK(Code)TR-ND	112.00
0.025 ~ 0.05	0.5	1%	±100 ppm/°C	CSR1206FK(Code)CT-ND	.68	.48	.34	CSR1206FK(Code)TR-ND	98.00
0.075 ~ 0.1	0.5	1%	±100 ppm/°C	CSR1206FK(Code)CT-ND	.84	.57	.35	CSR1206FK(Code)TR-ND	96.00
0.2 ~ 0.33	0.5	1%	±100 ppm/°C	CSR1206FK(Code)CT-ND	.63	.43	.26	CSR1206FK(Code)TR-ND	72.00
0.5 ~ 1	0.5	1%	±100 ppm/°C	CSR1206FK(Code)CT-ND	.54	.37	.21	CSR1206FK(Code)TR-ND	54.00
0.01 ~ 0.02	1	1%	±250 ppm/°C	CSRN2010FK(Code)CT-ND	1.04	.73	.53	CSRN2010FK(Code)TR-ND	168.00
0.025 ~ 0.05	1	1%	±250 ppm/°C	CSRN2010FK(Code)CT-ND	.95	.67	.49	CSRN2010FK(Code)TR-ND	154.00
0.06 ~ 0.1	1	1%	±250 ppm/°C	CSRN2010FK(Code)CT-ND	.86	.61	.44	CSRN2010FK(Code)TR-ND	140.00
0.15 ~ 0.4	1	1%	±250 ppm/°C	CSRN2010FK(Code)CT-ND	.78	.54	.39	CSRN2010FK(Code)TR-ND	112.00
0.5 ~ 0.75	1	1%	±250 ppm/°C	CSRN2010FK(Code)CT-ND	.91	.62	.38	CSRN2010FK(Code)TR-ND	104.00
0.01 ~ 0.02	2	1%	±200 ppm/°C	CSRN2512FK(Code)CT-ND	1.05	.75	.56	CSRN2512FK(Code)TR-ND	192.50
0.025 ~ 0.05	2	1%	±200 ppm/°C	CSRN2512FK(Code)CT-ND	.95	.67	.49	CSRN2512FK(Code)TR-ND	154.00
0.068 ~ 0.1	2	1%	±200 ppm/°C	CSRN2512FK(Code)CT-ND	.86	.61	.44	CSRN2512FK(Code)TR-ND	140.00
0.15 ~ 0.47	2	1%	±200 ppm/°C	CSRN2512FK(Code)CT-ND	.88	.61	.44	CSRN2512FK(Code)TR-ND	126.00
0.5 ~ 0.75	2	1%	±200 ppm/°C	CSRN2512FK(Code)CT-ND	.77	.53	.32	CSRN2512FK(Code)TR-ND	88.00

✔ ***NEW!*** § For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Resistance Value Chart

NEW! **CSR0603** ***NEW!***

Value(Code)	Value(Code)	Value(Code)
0.02 (20L0)	0.075 (75L0)	0.3 (R300)
0.025 (25L0)	0.1 (R100)	0.5 (R500)
0.03 (30L0)	0.2 (R200)	1 (1R00)
0.05 (50L0)	0.25 (R250)	

NEW! **CSR0805** ***NEW!***

Value(Code)	Value(Code)	Value(Code)
0.02 (20L0)	0.075 (75L0)	0.3 (R300)
0.025 (25L0)	0.1 (R100)	0.5 (R500)
0.03 (30L0)	0.2 (R200)	1 (1R00)
0.05 (50L0)	0.25 (R250)	

CSR1206

Value(Code)	Value(Code)	Value(Code)
0.01 (10L0)	0.05 (50L0)	0.33 (R330)
0.012 (12L0)	0.075 (75L0)	0.5 (R500)
0.015 (15L0)	0.1 (R100)	0.75 (R750)
0.02 (20L0)	0.2 (R200)	1 (1R00)
0.025 (25L0)	0.25 (R250)	
0.03 (30L0)	0.3 (R300)	

CSRN2010

Value(Code)	Value(Code)	Value(Code)
0.01 (10L0)	0.05 (50L0)	0.25 (R250)
0.015 (15L0)	0.06 (60L0)	0.3 (R300)
0.02 (20L0)	0.075 (75L0)	0.4 (R400)
0.025 (25L0)	0.1 (R100)	0.5 (R500)
0.03 (30L0)	0.15 (R150)	0.75 (R750)
0.04 (40L0)	0.2 (R200)	

CSRN2512

Value(Code)	Value(Code)	Value(Code)	Value(Code)
0.01 (10L0)	0.05 (50L0)	0.25 (R250)	0.68 (R680)
0.015 (15L0)	0.068 (68L0)	0.3 (R300)	0.75 (R750)
0.02 (20L0)	0.075 (75L0)	0.33 (R330)	
0.025 (25L0)	0.1 (R100)	0.4 (R400)	
0.03 (30L0)	0.15 (R150)	0.47 (R470)	
0.04 (40L0)	0.2 (R200)	0.5 (R500)	

CSKA Series Sample Kits

RoHS COMPLIANT

1/2 Watt 1206 1% Sample Kit
25 each of the following values:

CSRF	CSNL	CSR			
0.005	0.001	0.012	0.03	0.015	0.5
0.01	0.002	0.015	0.05	0.2	0.75
	0.003	0.02	0.075	0.25	
		0.025	0.1	0.3	

1 Watt 2010 1% Sample Kit
25 each of the following values:

CSNL	CSRN				
0.001	0.01	0.05	0.04	0.25	0.75
0.002	0.02	0.075	0.06	0.3	
0.003	0.025	0.1	0.15	0.4	
0.005	0.03	0.015	0.2	0.5	

2 Watt 2512 1% Sample Kit
25 each of the following values:

CSRF	CSNL		CSRN				
0.01	0.0005	0.007	0.01	0.05	0.04	0.25	0.47
05	0.001		0.02	0.075	0.068	0.3	0.5
	0.002		0.025	0.1	0.15	0.33	0.68
	0.003		0.03	0.015	0.2	0.4	0.75

Description	Digi-Key Part No.	Price Each
1/2 Watt 1206 1% Sample Kit, 25 each of 20 values	CSR1206FTKITKIT-ND	83.00
1 Watt 2010 1% Sample Kit, 25 each of 21 values	CSR2010FTKITKIT-ND	91.30
2 Watt 2512 1% Sample Kit, 25 each of 27 values	CSR2512FTKITKIT-ND	99.60

HPC Series – High Power Surface Mount Resistors

RoHS COMPLIANT

Features:

- Up to 12W with no external heat sinks • Non-inductive resistive element
- Up to 50W for short duration

Electrical Specifications:

- Maximum Voltage: 200V • Temperature Coefficient: ±150ppm/°C

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)
0.1 (R100)	12 (12R0)	100 (100R)
8.2 (8R20)	22 (22R0)	
10 (10R0)	47 (47R0)	

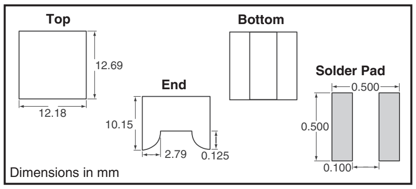

Resistance Range (Ω)	Wattage	Toler-ance	Digi-Key Part No.§	Cut Tape Price Each 1	10	50	Digi-Key Part No.§	Tape and Reel Pricing 200	1,200
0.1 ~ 100	5	5%	HPC12JT(Code)CT-ND	3.30	3.00	2.70	HPC12JT(Code)TR-ND	370.00	1275.00/M

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

SEI
Stackpole Electronics, Inc.
Resistive Product Solutions

SM Series – Surface Mount Wirewound Resistors

Features: • High temperature molded encapsulation • Flex termination for absorbing thermal expansion • All welded construction • Tinned copper terminals
Electrical Specifications: • Maximum Voltage: SM2: 50V; SM3: 100V • Temperature Coefficient: SM2: ±100ppm/°C; SM3: ±100ppm/°C

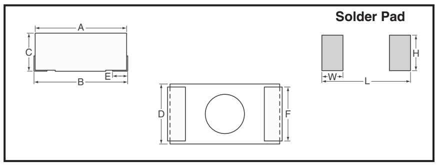

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)
0.01 (10L0)	1 (1R00)	100 (100R)
0.1 (R100)	10 (10R0)	250 (250R)
0.5 (R500)	50 (50R0)	

Type	Dimensions — mm								
	A	B	C	D	E	F	W	H	L
SM2	10.4	11.1	4.6	6.1	2.5	2.9	4.0	4.0	13.7
SM3	16.0	18.0	6.5	7.0	2.8	2.9	5.0	4.2	21.6

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Price Each			Digi-Key Part No.§	Tape and Reel Pricing			
				1	10	50		750	800	3,750	4,000
0.01	2	1%	SM4124FT10L0CT-ND	1.33	1.23	1.06	SM4124FT10L0TR-ND	—	394.40	—	442.00/M
0.1 ~ 0.5	2	1%	SM4124FT(Code)CT-ND	1.17	1.08	.93	SM4124FT(Code)TR-ND	—	348.00	—	390.00/M
1 ~ 250	2	1%	SM4124FT(Code)CT-ND	.98	.90	.78	SM4124FT(Code)TR-ND	—	290.00	—	325.00/M
0.01	3	1%	SM6227FT10L0CT-ND	1.76	1.62	1.40	SM6227FT10L0TR-ND	489.38	—	585.00/M	—
0.1 ~ 0.5	3	1%	SM6227FT(Code)CT-ND	1.56	1.44	1.24	SM6227FT(Code)TR-ND	435.00	—	520.00/M	—
1 ~ 250	3	1%	SM6227FT(Code)CT-ND	1.37	1.26	1.09	SM6227FT(Code)TR-ND	380.63	—	455.00/M	—

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

BR Series – Bare Element Current Sense Resistors

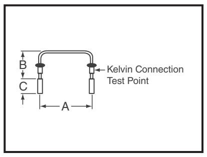

Features:
- All welded construction
- Flameproof
- High current handling to 70 amps

Size Code	Dimensions – mm		
	A	B	C
3	15.300 + 1.020/0.508	15.3 ~ 25.4	3.180 ± 0.762

Resistance Value Chart

Value(Code)	Value(Code)	Value(Code)	Value(Code)	Value(Code)	Value(Code)	Value(Code)	Value(Code)
.005 (5L00)	.01 (10L0)	.015 (15L0)	.02 (20L0)	.025 (25L0)	.03 (30L0)	.05 (50L0)	.1 (R100)

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Price Each		
				1	10	50
.005 ~ .1	3	1%	BR3FB(Code)-ND	1.04	.81	.63

§ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Jumper Wires

Features: • Ideal for crossovers or jumpers on circuit boards • 58 mm length • High current ratings • Standard JW is copper plated steel, with 100% tin over-plate • 100% tin plated on copper wire is available as type JWQ

Type	Diameter inches (mm)	Gauge References
JW 50 R	.020 ± .001 (.50 ± .02)	24
JW 60 R	.024 ± .001 (.60 ± .03)	22
JW 80 R	.031 ± .001 (.80 ± .05)	20

Maximum Current (Amp)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel	
		1	10	50		Qty.	Pricing
3	JW50ZT0R00CT-ND	.07	.50	1.38	JW50ZT0R00TR-ND	10,000	3.96/M
3	JW60ZT0R00CT-ND	.07	.50	1.38	JW60ZT0R00TR-ND	10,000	3.96/M
4	JW80ZT0R00CT-ND	.11	.78	2.13	JW80ZT0R00TR-ND	8,000	7.03/M

MPR Series – Flameproof Metal Plate Resistors

Features:
• Small size with high power ratio • Low resistance values and low inductance • Crimped leads keep circuit board temperature cooler
Electrical Specifications:
• Maximum Voltage: 350V • Temperature Coefficient: 350ppm/°C

Type	Dimensions (mm)				
	A	B	H	H1	P
MPR3	14	5	13	14	10
MPR5	14	5	18	14	10

Resistance Value Chart

Value (Code)	Value (Code)
0.01 (10L0)	0.05 (50L0)
0.02 (20L0)	0.075 (75L0)
0.025 (25L0)	0.1 (R100)
0.03 (30L0)	

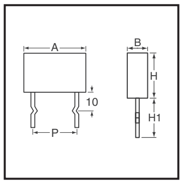

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Price Each		
				1	10	50
0.01 ~ 0.1	3	5%	MPR3JB(Code)-ND	.68	.53	.41
0.01 ~ 0.1	5	5%	MPR5JB(Code)-ND	.81	.63	.49

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

TR Series – Power Resistors

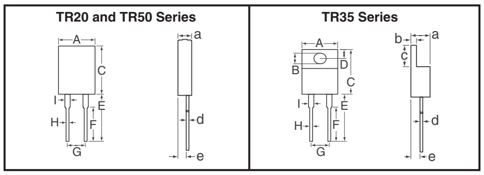

Features: • TO-220 style • Molded case for environmental protection • Operating temperature range: -65°C ~ 150°C • Maximum Voltage: 350V

Resistance Value Chart

TR20

Value (Code)	Value (Code)	Value (Code)
0.05 (50L0)	3.3 (3R30)	47 (47R0)
0.1 (R100)	4.7 (4R70)	51 (51R0)
0.25 (R250)	7.5 (7R50)	62 (62R0)
0.5 (R500)	10 (10R0)	75 (75R0)
1 (1R00)	15 (15R0)	100 (100R)
1.5 (1R50)	22 (22R0)	
2.2 (2R20)	33 (33R0)	

TR35

Value (Code)	Value (Code)
1 (1R00)	22 (22R0)
1.5 (1R50)	33 (33R0)
2.2 (2R20)	47 (47R0)
3.3 (3R30)	51 (51R0)
4.7 (4R70)	62 (62R0)
7.5 (7R50)	75 (75R0)
10 (10R0)	100 (100R)
15 (15R0)	

TR50

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.05 (50L0)	1.5 (1R50)	10 (10R0)	51 (51R0)
0.1 (R100)	2.2 (2R20)	15 (15R0)	62 (62R0)
0.25 (R250)	3.3 (3R30)	22 (22R0)	75 (75R0)
0.5 (R500)	4.7 (4R70)	33 (33R0)	100 (100R)
1 (1R00)	7.5 (7R50)	47 (47R0)	

Type	Dimensions – mm (maximum)													
	A	B	C	D	E	F	G	H	I	a	b	c	d	e
TR20	10.67	–	16.52	–	13.97	4.06	5.34	0.86	1.40	3.44	–	–	0.60	2.04
TR35	10.41	3.75	15.00	3.05	14.70	4.00	5.33	0.86	1.37	4.82	1.40	6.35	0.70	2.52
TR50	10.67	–	16.52	–	13.97	4.06	5.34	0.86	1.40	3.44	–	–	0.60	2.04

Electrical Thermal Characteristics			
	TR20	TR35	TR50
Free Air Power Rating	3W in free air at 25°C	2.5W in free air at 25°C	3W in free air at 25°C

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.‡	Price Each		
					1	10	50
0.05 ~ 1	20 Watt	5%	—	TR20JBX(Code)-ND	3.60	3.00	2.58
1.5 ~ 4.7	20 Watt	5%	±200ppm	TR20JBL(Code)-ND	3.60	3.00	2.58
7.5 ~ 10	20 Watt	5%	±100ppm	TR20JBD(Code)-ND	3.60	3.00	2.58
15 ~ 100	20 Watt	5%	±50ppm	TR20JBC(Code)-ND	3.60	3.00	2.58
1	35 Watt	5%	—	TR35JBX1R00-ND	3.60	3.00	2.58
1.5 ~ 4.7	35 Watt	5%	±200ppm	TR35JBL(Code)-ND	3.60	3.00	2.58
7.5 ~ 10	35 Watt	5%	±100ppm	TR35JBD(Code)-ND	3.60	3.00	2.58
15 ~ 100	35 Watt	5%	±50ppm	TR35JBC(Code)-ND	3.60	3.00	2.58
0.05 ~ 1.5	50 Watt	5%	—	TR50JBX(Code)-ND	3.90	3.25	2.80
2.2 ~ 4.7	50 Watt	5%	±200ppm	TR50JBL(Code)-ND	3.90	3.25	2.80
7.5 ~ 10	50 Watt	5%	±100ppm	TR50JBD(Code)-ND	3.90	3.25	2.80
15 ~ 100	50 Watt	5%	±50ppm	TR50JBC(Code)-ND	3.90	3.25	2.80

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

KAL Series – Aluminum Housed Axial Lead Wire Wound Resistors

Features:
- Aluminum housing for maximum heat dissipation
- Complete welded construction
- 10 ~ 50W tinned copper terminals
- Temperature Coefficient: ±100ppm below 0.1Ω, ±50ppm from 0.1Ω ~ 9.9Ω, ±30ppm from 10Ω ~ 49Ω, ±20ppm above 50Ω

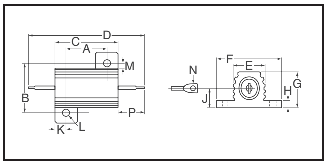

Type	Dimensions in mm (maximum) A	B	C	D	E	F	G	H	J	K	L	M	N	P
KAL10	14.3	15.9	19.0	34.9	10.7	20.3	9.9	1.9	4.8	2.4	2.4	2.6	2.2	7.9
KAL25	18.3	19.8	27.0	49.2	14.0	27.4	13.9	2.2	6.6	4.4	3.2	2.9	2.2	11.1
KAL50	39.7	21.4	50.0	70.6	16.0	29.0	15.5	2.2	7.6	5.0	3.2	2.7	2.2	10.4

Resistance Value Chart

KAL10		KAL25			KAL50		
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**
1 (1R00)	250 (250R)	1 (1R00)	20 (20R0)	1K (1K00)	1 (1R00)	10 (10R0)	50 (50R0)
5 (5R00)	1K (1K00)	2 (2R00)	25 (25R0)	1.5K (1K50)	1.5 (1R50)	15 (15R0)	100 (100R)
10 (10R0)	2.5K (2K50)	3 (3R00)	50 (50R0)	3K (3K00)	2 (2R00)	20 (20R0)	300 (300R)
20 (20R0)	5K (5K00)	5 (5R00)	75 (75R0)	10K (10K0)	3 (3R00)	25 (25R0)	1K (1K00)
50 (50R0)		10 (10R0)	100 (100R)		5 (5R00)	30 (30R0)	1.5K (1K50)
		15 (15R0)	250 (250R)		6 (6R00)	35 (35R0)	

Resistance Range (Ω)	Wattage	Tolerance	Dielectric Withstanding Voltage	Digi-Key Part No.‡	Price Each 1	10	50
1 ~ 1K	12.5	1%	1,000	KAL10FB(Code)-ND	2.80	2.20	1.92
2.5K ~ 5K	12.5	1%	1,000	KAL10FB(Code)-ND	2.91	2.29	2.00
1 ~ 3K	25	1%	2,500	KAL25FB(Code)-ND	3.30	2.75	2.37
10K	25	1%	2,500	KAL25FB(Code)-ND	3.60	3.00	2.58
1 ~ 1.5K	50	1%	2,500	KAL50FB(Code)-ND	3.90	3.25	2.80

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

MR Series – Low Resistance Value Molded 2 Leads Resistors

Features: • Metal element resistors • Excellent load life stability • Inherently non-inductive • Tinned copper leads • Low temperature coefficient • High power to size ratio • Molded bodies for exceptional automated placement

Electrical Specifications: • Max. Voltage: 500V • Temperature Coefficient: 50 ~ 400ppm/°C

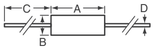

Type	Dimensions (mm) A	B	C	D
MR3	14.2	5.2	34.9	0.81
MR5	23.5	8.4	34.9	0.91

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.005 (5L00)	0.02 (20L0)	0.03 (30L0)	0.075 (75L0)
0.01 (10L0)	0.025 (25L0)	0.05 (50L0)	0.1 (R100)

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Cut Tape Price Each 1	10	50	Digi-Key Part No.‡	Tape and Reel Pricing 500	750	2,500	3,750
0.005 ~ 0.1	3	1%	MR3FT(Code)CT-ND	1.33	1.23	1.06	MR3FT(Code)TR-ND	—	369.75	—	442.00/M
0.005 ~ 0.1	5	1%	MR5FT(Code)CT-ND	1.56	1.44	1.24	MR5FT(Code)TR-ND	320.00	—	520.00/M	—

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

CF and CD Series – 1/4 and 1/2 Watt Carbon Film Resistors

CF Series Features: • Ideal for commercial / industrial applications • Flame retardant coating • Auto sequencing / insertion compatible **CD Series Features:** • Ideal for crossovers or jumpers on circuit boards with auto-insertion capability • High current rating, 3A • Zero ohms

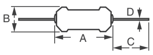

Type	Dimensions (mm) A	B	C	D
CF1/4	6.5 ±0.5	2.3 ±0.2	28.0 ±3.0	0.56 ±0.05
CF1/2	8.5 ±0.5	2.7 ±0.5	28.0 ±3.0	0.6 ±0.05
CD	6.0 ±0.3	2.3 ±0.2	28.0 ±2.0	0.55 ±0.03

Resistance Value Chart for CF1/4 and CF1/2 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0 (0R00)	24 (24R0)	62 (62R0)	220 (220R)	510 (510R)	1.2K (1K20)	3K (3K00)	6.8K (6K80)	27K (27K0)	82K (82K0)	270K (270K)	1.2M (1M20)
1 (1R00)	27 (27R0)	68 (68R0)	240 (240R)	560 (560R)	1.3K (1K30)	3.3K (3K30)	7.5K (7K50)	30K (30K0)	91K (91K0)	330K (330K)	2.2M (2M20)
10 (10R0)	30 (30R0)	75 (75R0)	270 (270R)	620 (620R)	1.5K (1K50)	3.6K (3K60)	8.2K (8K20)	33K (33K0)	100K (100K)	390K (390K)	3.3M (3M30)
12 (12R0)	33 (33R0)	82 (82R0)	300 (300R)	680 (680R)	1.6K (1K60)	3.9K (3K90)	10K (10K0)	39K (39K0)	120K (120K)	430K (430K)	3.9M (3M90)
15 (15R0)	39 (39R0)	100 (100R)	330 (330R)	750 (750R)	1.8K (1K80)	4.3K (4K30)	12K (12K0)	47K (47K0)	150K (150K)	470K (470K)	4.7M (4M70)
16 (16R0)§	43 (43R0)	120 (120R)	360 (360R)	820 (820R)	2K (2K00)	4.7K (4K70)	15K (15K0)	56K (56K0)	180K (180K)	510K (510K)	5.1M (5M10)
18 (18R0)	47 (47R0)	150 (150R)	390 (390R)	910 (910R)	2.2K (2K20)	5.1K (5K10)	18K (18K0)	62K (62K0)	200K (200K)	560K (560K)	5.6M (5M60)
20 (20R0)	51 (51R0)	180 (180R)	430 (430R)	1K (1K00)	2.4K (2K40)	5.6K (5K60)	20K (20K0)	68K (68K0)	220K (220K)	680K (680K)	10M (10M0)
22 (22R0)	56 (56R0)	200 (200R)	470 (470R)	1.1K (1K10)	2.7K (2K70)	6.2K (6K20)	22K (22K0)	75K (75K0)	240K (240K)	1M (1M00)	

Additional Resistance Values for CF1/4 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
36 (36R0)	130 (130R)	11K (11K0)	24K (24K0)	51K (51K0)	160K (160K)	620K (620K)	910K (910K)	1.5M (1M50)	2.4M (2M40)	4.3M (4M30)	8.2M (8M20)
91 (91R0)	160 (160R)	13K (13K0)	36K (36K0)	110K (110K)	300K (300K)	750K (750K)	1.1M (1M10)	1.8M (1M80)	2.7M (2M70)	6.8M (6M80)	9.1M (9M10)
110 (110R)	9.1K (9K10)	16K (16K0)	43K (43K0)	130K (130K)	360K (360K)	820K (820K)	1.3M (1M30)	2M (2M00)	3M (3M00)	7.5M (7M50)	

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Cut Tape Pricing 10	50	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000
0	—	—	CD14ZT0R00CT-ND	.63	1.73	2.63	CD14ZT0R00TR-ND	5.70/M
1 ~ 10M	0.25	5%	CF14JT(Code)CT-ND	.53	1.44	2.19	CF14JT(Code)TR-ND	4.75/M
1 ~ 10M	0.5	5%	CF12JT(Code)CT-ND	.95	2.59	3.94	CF12JT(Code)TR-ND	8.55/M

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). § Not available in CF1/4 Series

CF Series – 1/8 Watt Carbon Film Resistors

CF Series Features: • Ideal for commercial / industrial applications • Flame retardant coating • Auto sequencing / insertion compatible

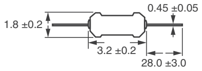

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	36 (36R0)	100 (100R)	300 (300R)	820 (820R)	2.4K (2K40)	6.8K (6K80)	20K (20K0)	56K (56K0)	160K (160K)	470K (470K)	1.3M (1M30)	4.7M (4M70)
10 (10R0)	39 (39R0)	110 (110R)	330 (330R)	910 (910R)	2.7K (2K70)	7.5K (7K50)	22K (22K0)	62K (62K0)	180K (180K)	510K (510K)	1.5M (1M50)	5.1M (5M10)
12 (12R0)	43 (43R0)	120 (120R)	360 (360R)	1K (1K00)	3K (3K00)	8.2K (8K20)	24K (24K0)	68K (68K0)	200K (200K)	560K (560K)	1.8M (1M80)	5.6M (5M60)
15 (15R0)	47 (47R0)	130 (130R)	390 (390R)	1.1K (1K10)	3.3K (3K30)	9.1K (9K10)	27K (27K0)	75K (75K0)	220K (220K)	620K (620K)	2M (2M00)	6.8M (6M80)
18 (18R0)	51 (51R0)	150 (150R)	430 (430R)	1.2K (1K20)	3.6K (3K60)	10K (10K0)	30K (30K0)	82K (82K0)	240K (240K)	680K (680K)	2.2M (2M20)	7.5M (7M50)
20 (20R0)	56 (56R0)	160 (160R)	470 (470R)	1.3K (1K30)	3.9K (3K90)	11K (11K0)	33K (33K0)	91K (91K0)	270K (270K)	750K (750K)	2.4M (2M40)	8.2M (8M20)
22 (22R0)	62 (62R0)	180 (180R)	510 (510R)	1.5K (1K50)	4.3K (4K30)	12K (12K0)	36K (36K0)	100K (100K)	300K (300K)	820K (820K)	2.7M (2M70)	9.1M (9M10)
24 (24R0)	68 (68R0)	200 (200R)	560 (560R)	1.6K (1K60)	4.7K (4K70)	13K (13K0)	39K (39K0)	110K (110K)	330K (330K)	910K (910K)	3M (3M00)	10M (10M0)
27 (27R0)	75 (75R0)	220 (220R)	620 (620R)	1.8K (1K80)	5.1K (5K10)	15K (15K0)	43K (43K0)	120K (120K)	360K (360K)	1M (1M00)	3.3M (3M30)	
30 (30R0)	82 (82R0)	240 (240R)	680 (680R)	2K (2K00)	5.6K (5K60)	16K (16K0)	47K (47K0)	130K (130K)	390K (390K)	1.1M (1M10)	3.9M (3M90)	
33 (33R0)	91 (91R0)	270 (270R)	750 (750R)	2.2K (2K20)	6.2K (6K20)	18K (18K0)	51K (51K0)	150K (150K)	430K (430K)	1.2M (1M20)	4.3M (4M30)	

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Cut Tape Pricing 10	50	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000
1 ~ 10M	0.125	5%	CF18JT(Code)CT-ND	.65	1.78	2.71	CF18JT(Code)TR-ND	5.89/M

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

CB Series – Ceramic Housed Axial Lead Wire Wound Resistors

Features: • Fireproof power wirewound • High thermal conductivity

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.25 (R250)	1 (1R00)	5.1 (5R10)	22 (22R0)	56 (56R0)
0.3 (R300)	1.2 (1R20)	12 (12R0)	25 (25R0)	68 (68R0)
0.33 (R330)	1.5 (1R50)	15 (15R0)	30 (30R0)	75 (75R0)
0.51 (R510)	2 (2R00)	18 (18R0)	40 (40R0)	82 (82R0)
0.75 (R750)	5 (5R00)	20 (20R0)	50 (50R0)	100 (100R)

Resistance Range (Ω)	Wattage	Tolerance	Dielectric Withstanding Voltage	Digi-Key Part No.‡	Pricing 1	10	50
0.25 ~ 0.51, 82	5	5%	± 2%	CB5JB(Code)-ND	.25	1.93	7.43
0.75 ~ 75, 100	5	5%	± 2%	CB5JB(Code)-ND	.55	3.99	10.73

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

SEI
Stackpole Electronics, Inc.
Resistive Product Solutions

RNF Series General Purpose Metal Film Resistors

The RNF Series resistors from Stackpole are metal film axial leaded semi-precision resistors with a wide resistance value range and excellent precision capabilities.

Type	Dimensions (mm)			
	A	B	C	D
RNF 1/8	3.20 ± 0.20	1.75 ± 0.25	28.0 ± 2.0	0.44 ± 0.07
RNF 1/4	6.35 ± 0.65	2.35 ± 0.25	28.0 ± 2.0	0.56 ± 0.09
RNF 1/2	8.75 ± 0.75	3.25 ± 0.75	28.0 ± 3.0	0.65 ± 0.10

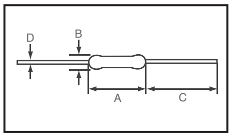

RNF 1/2, ±1% Resistance Values

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R0)	499 (499R)	2K (2K00)	100K (100K)
100 (100R)	562 (562R)	15K (15K0)	499K (499K)
121 (121R)	1K (1K00)	47.5K (47K5)	1M (1M00)

RNF 1/8, ±1% Resistance Values

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
75 (75R0)	1K (1K00)	3.32K (3K32)	5.36K (5K36)	10.7K (10K7)	22.1K (22K1)	56.2K (56K2)	121K (121K)
100 (100R)	1.18K (1K18)	3.83K (3K83)	9.09K (9K09)	15K (15K0)	33.2K (33K2)	82.5K (82K5)	200K (200K)
121 (121R)	1.87K (1K87)	4.75K (4K75)	10K (10K0)	15.8K (15K8)	43.2K (43K2)	88.7K (88K7)	309K (309K)
523 (523R)	2K (2K00)	4.99K (4K99)	10.2K (10K2)	20K (20K0)	49.9K (49K9)	100K (100K)	1M (1M00)

RNF 1/4, ±1% Resistance Values

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	100 (100R)	402 (402R)	1.07K (1K07)	2.15K (2K15)	4.12K (4K12)	7.5K (7K50)	13K (13K0)	23.7K (23K7)	47K (47K0)	110K (110K)	274K (274K)	976K (976K)
2 (2R00)	121 (121R)	432 (432R)	1.1K (1K10)	2.21K (2K21)	4.22K (4K22)	7.68K (7K68)	13.7K (13K7)	24.3K (24K3)	47.5K (47K5)	113K (113K)	301K (301K)	1M (1M00)
6.81 (6R81)	150 (150R)	464 (464R)	1.13K (1K13)	2.32K (2K32)	4.32K (4K32)	7.87K (7K87)	14K (14K0)	24.9K (24K9)	49.9K (49K9)	115K (115K)	309K (309K)	1.5M (1M50)
10 (10R0)	162 (162R)	470 (470R)	1.15K (1K15)	2.43K (2K43)	4.53K (4K53)	8.06K (8K06)	14.3K (14K3)	25.5K (25K5)	51.1K (51K1)	118K (118K)	316K (316K)	1.82M (1M82)
15 (15R0)	182 (182R)	475 (475R)	1.21K (1K21)	2.49K (2K49)	4.75K (4K75)	8.25K (8K25)	14.7K (14K7)	26.7K (26K7)	53.6K (53K6)	121K (121K)	332K (332K)	2M (2M00)
18.2 (18R2)	200 (200R)	499 (499R)	1.27K (1K27)	2.55K (2K55)	4.99K (4K99)	8.45K (8K45)	15K (15K0)	27.4K (27K4)	54.9K (54K9)	127K (127K)	357K (357K)	2.21M (2M21)
20 (20R0)	221 (221R)	511 (511R)	1.33K (1K33)	2.67K (2K67)	5.11K (5K11)	8.66K (8K66)	15.4K (15K4)	28K (28K0)	56.2K (56K2)	130K (130K)	383K (383K)	2.74M (2M74)
22.1 (22R1)	232 (232R)	562 (562R)	1.4K (1K40)	2.74K (2K74)	5.23K (5K23)	9.09K (9K09)	15.8K (15K8)	29.4K (29K4)	59K (59K0)	150K (150K)	392K (392K)	3.32M (3M32)
24.9 (24R9)	237 (237R)	576 (576R)	1.43K (1K43)	2.87K (2K87)	5.36K (5K36)	9.53K (9K53)	16.2K (16K2)	30.1K (30K1)	61.9K (61K9)	158K (158K)	402K (402K)	4.75M (4M75)
27.4 (27R4)	243 (243R)	619 (619R)	1.47K (1K47)	2.94K (2K94)	5.49K (5K49)	9.76K (9K76)	16.5K (16K5)	31.6K (31K6)	66.5K (66K5)	162K (162K)	412K (412K)	10M (10M0)
33.2 (33R2)	249 (249R)	681 (681R)	1.5K (1K50)	3.01K (3K01)	5.62K (5K62)	10K (10K0)	16.9K (16K9)	33.2K (33K2)	68.1K (68K1)	178K (178K)	432K (432K)	
40.2 (40R2)	267 (267R)	750 (750R)	1.58K (1K58)	3.09K (3K09)	5.9K (5K90)	10.2K (10K2)	17.8K (17K8)	34.8K (34K8)	73.2K (73K2)	182K (182K)	475K (475K)	
46.4 (46R4)	274 (274R)	768 (768R)	1.62K (1K62)	3.16K (3K16)	6.04K (6K04)	10.5K (10K5)	18.2K (18K2)	38.3K (38K3)	75K (75K0)	200K (200K)	499K (499K)	
47.5 (47R5)	280 (280R)	806 (806R)	1.65K (1K65)	3.24K (3K24)	6.19K (6K19)	10.7K (10K7)	19.6K (19K6)	39.2K (39K2)	76.8K (76K8)	210K (210K)	511K (511K)	
49.9 (49R9)	301 (301R)	825 (825R)	1.74K (1K74)	3.32K (3K32)	6.34K (6K34)	11K (11K0)	20K (20K0)	40.2K (40K2)	80.6K (80K6)	221K (221K)	562K (562K)	
51.1 (51R1)	324 (324R)	866 (866R)	1.82K (1K82)	3.4K (3K40)	6.49K (6K49)	11.3K (11K3)	21K (21K0)	41.2K (41K2)	82.5K (82K5)	226K (226K)	576K (576K)	
56.2 (56R2)	332 (332R)	909 (909R)	1.91K (1K91)	3.57K (3K57)	6.65K (6K65)	11.5K (11K5)	21.5K (21K5)	43.2K (43K2)	90.9K (90K9)	237K (237K)	619K (619K)	
68.1 (68R1)	340 (340R)	953 (953R)	1.96K(1K96)	3.65K (3K65)	6.81K (6K81)	12.1K (12K1)	22.1K (22K1)	44.2K (44K2)	95.3K (95K3)	243K (243K)	681K (681K)	
75 (75R0)	365 (365R)	1K (1K00)	2K (2K00)	3.92K (3K92)	7.15K (7K15)	12.4K (12K4)	22.6K (22K6)	45.3K (45K3)	100K (100K)	249K (249K)	750K (750K)	
82.5 (82R5)	392 (392R)	1.05K (1K05)	2.1K (2K10)	4.02K (4K02)	7.32K (7K32)	12.7K (12K7)	23.2K (23K2)	46.4K (46K4)	102K (102K)	267K (267K)	825K (825K)	

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.‡	Cut Tape Pricing				Digi-Key Part No.‡	Tape and Reel	
					1	10	50	100		Qty	Pricing
75 ~ 1M	1/8	±1%	±100ppm/°C	RNF18FTD(Code)CT-ND	.15	1.05	2.88	4.38	RNF18FTD(Code)TR-ND	5,000	9.50/M
1 ~ 6.81	1/4	±1%	±100ppm/°C	RNF14FTD(Code)CT-ND	.22	1.50	4.13	6.50	RNF14FTD(Code)TR-ND	5,000	15.00/M
10 ~ 2M	1/4	±1%	±100ppm/°C	RNF14FTD(Code)CT-ND	.15	1.05	2.88	4.38	RNF14FTD(Code)TR-ND	5,000	9.50/M
2.21M ~ 4.75M	1/4	±1%	±100ppm/°C	RNF14FTD(Code)CT-ND	.22	1.50	4.13	6.50	RNF14FTD(Code)TR-ND	5,000	15.00/M
10M	1/4	±1%	±100ppm/°C	RNF14FTD(Code)CT-ND	.29	1.95	5.36	8.45	RNF14FTD(Code)TR-ND	5,000	19.50/M
10K, 100K	1/4	±0.1%	±25ppm/°C	RNF14FTD(Code)CT-ND	.15	1.05	2.88	4.38	RNF14FTD(Code)TR-ND	5,000	9.50/M
10 ~ 1M	1/2	±1%	±100ppm/°C	RNF12FTD(Code)CT-ND	.22	1.50	4.13	6.50	RNF12FTD(Code)TR-ND	2,500	16.50/M

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RSF Series General Purpose Metal Oxide Resistors

Features: • Low cost alternative to wirewounds and carbon comps • Flame retardant coating meets UL94V-0 • Miniature size available as RSMF

1 W Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.1 (R100)	15 (15R0)	1.5K (1K50)	47K (47K0)
.22 (R220)	100 (100R)	1.8K (1K80)	75K (75K0)
.47 (R470)	220 (220R)	6.8K (6K80)	100K (100K)
1 (1R00)	300 (300R)	10K (10K0)	120K (120K)
4.7 (4R70)	510 (510R)	22K (22K0)	
5.6 (5R60)	750 (750R)	33K (33K0)	
10 (10R0)	1K (1K00)	39K (39K0)	

2 W Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.1 (R100)	12 (12R0)	150 (150R)	1.2K (1K20)	6.2K (6K20)	39K (39K0)
.33 (R330)	20 (20R0)	200 (200R)	1.5K (1K50)	10K (10K0)	47K (47K0)
.51 (R510)	22 (22R0)	330 (330R)	1.8K (1K80)	12K (12K0)	100K (100K)
1 (1R00)	47 (47R0)	470 (470R)	2.4K (2K40)	15K (15K0)	
2 (2R00)	68 (68R0)	750 (750R)	4.7K (4K70)	18K (18K0)	
4.7 (4R70)	100 (100R)	820 (820R)	5.1K (5K10)	22K (22K0)	
10 (10R0)	120 (120R)	1K (1K00)	5.6K (5K60)	36K (36K0)	

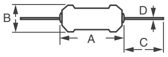

Type	Dimensions (mm)			
	A	B	C	D
RSF1	11.0 ± 1.0	4.5 ± 0.5	30.0 ± 3.0	0.70 ± 0.10
RSF2	15.0 ± 1.0	5.0 ± 1.0	30.0 ± 3.0	0.70 ± 0.10

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.‡	Cut Tape Pricing				Digi-Key Part No.‡	Tape and Reel	
					1	10	50	100		Qty	Pricing
.1 ~ 120K	1	±5%	±200ppm/°C	RSF1JT(Code)CT-ND	.70	4.80	13.20	20.80	RSF1JT(Code)TR-ND	2,500	52.80/M
.1 ~ 100K	2	±5%	±200ppm/°C	RSF2JT(Code)CT-ND	.74	5.04	15.24	25.18	RSF2JT(Code)TR-ND	1,000	84.80

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RSMF Mini Series General Purpose Metal Oxide Resistors

1 W Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.1 (R100)	47 (47R0)	470 (470R)	4.7K (4K70)
.47 (R470)	75 (75R0)	510 (510R)	5.6K (5K60)
1 (1R00)	100 (100R)	620 (620R)	10K (10K0)
2.2 (2R20)	120 (120R)	750 (750R)	22K (22K0)
4.7 (4R70)	180 (180R)	1K (1K00)	47K (47K0)
10 (10R0)	200 (200R)	1.2K (1K20)	100K (100K)
12 (12R0)	220 (220R)	1.3K (1K30)	
22 (22R0)	240 (240R)	1.5K (1K50)	
24 (24R0)	270 (270R)	1.8K (1K80)	
33 (33R0)	330 (330R)	2K (2K00)	

2 W Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.1 (R100)	33 (33R0)	200 (200R)	820 (820R)	7.5K (7K50)
.51 (R510)	56 (56R0)	220 (220R)	910 (910R)	10K (10K0)
.62 (R620)	68 (68R0)	240 (240R)	1K (1K00)	15K (15K0)
1 (1R00)	75 (75R0)	300 (300R)	1.2K (1K20)	47K (47K0)
3.3 (3R30)	82 (82R0)	330 (330R)	1.5K (1K50)	56K (56K0)
4.7 (4R70)	91 (91R0)	390 (390R)	2K (2K00)	100K (100K)
10 (10R0)	100 (100R)	470 (470R)	2.2K (2K20)	180K (180K)
15 (15R0)	120 (120R)	510 (510R)	2.7K (2K70)	
18 (18R0)	150 (150R)	620 (620R)	4.7K(4K70)	

3 W Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.1 (R100)	100 (100R)	1K (1K00)	33K (33K0)
1 (1R00)	150 (150R)	2.7K (2K70)	47K (47K0)
10 (10R0)	200 (200R)	3.3K (3K30)	82K (82K0)
24 (24R0)	220 (220R)	4.7K (4K70)	100K (100K)
47 (47R0)	390 (390R)	10K (10K0)	
56 (56R0)	470 (470R)	20K (20K0)	

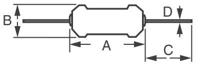

Resistance Range (Ω)	Wattage	Toler-ance	TCR	Digi-Key Part No.‡	Cut Tape Pricing				Digi-Key Part No.‡	Tape and Reel	
					1	10	50	100		Qty	Pricing
.1 ~ 100K	1	±5%	±200ppm/°C	RSMF1JT(Code)CT-ND	.37	2.55	7.01	11.05	RSMF1JT(Code)TR-ND	2,500	28.06/M
.1 ~ 180K	2	±5%	±200ppm/°C	RSMF2JT(Code)CT-ND	.59	3.99	12.08	19.95	RSMF2JT(Code)TR-ND	2,500	63.00/M
.1 ~ 100K	3	±5%	±200ppm/°C	RSMF3JT(Code)CT-ND	.90	6.21	22.08	34.50	RSMF3JT(Code)TR-ND	1,000	128.80

Type	Dimensions (mm)			
	A	B	C	D
RSMF1	9.0 ± 1.0	3.5 ± 0.5	28.0 ± 3.0	0.60 ± 0.05
RSMF2	11.0 ± 1.0	4.5 ± 0.5	30.0 ± 3.0	0.70 ± 0.10
RSMF3	15.0 ± 1.0	5.0 ± 1.0	30.0 ± 3.0	0.70 ± 0.10

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

WW Series — General Purpose and Precision Wirewound Resistors

Features: • High performance for low cost • High power to size ratio • Complete welded terminations • Tinned copper leads • High temperature silicone coating

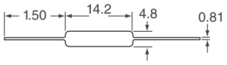

Resistance Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.15 (R150)	0.75 (R750)	4 (4R00)	15 (15R0)	47 (47R0)	82 (82R0)	250 (250R)	500 (500R)	1K (1K00)
0.2 (R200)	1 (1R00)	5 (5R00)	20 (20R0)	50 (50R0)	100 (100R)	270 (270R)	560 (560R)	2K (2K00)
0.25 (R250)	1.5 (1R50)	7.5 (7R50)	22 (22R0)	56 (56R0)	120 (120R)	300 (300R)	680 (680R)	3K (3K00)
0.3 (R300)	2 (2R00)	10 (10R0)	30 (30R0)	68 (68R0)	150 (150R)	390 (390R)	750 (750R)	
0.5 (R500)	3 (3R00)	12 (12R0)	39 (39R0)	75 (75R0)	220 (220R)	470 (470R)	820 (820R)	

Resistance Range (Ω)	Wattage	Tolerance	Dielectric Strength (V)	Digi-Key Part No.‡	Price Each			Digi-Key Part No.‡	T & R Pricing
					1	10	50		2,000
0.15 ~ 3K	3	1%	1,000	WW3FT(Code)CT-ND	1.65	1.17	.88	WW3FT(Code)TR-ND	292.60/M

‡ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Precision Power Foil Shunt Resistors

Dimensions in mm

Features: • Low TCR • High pulse ratings and absorption features which make for high performance in surge and high frequency applications • Long term stability • Superior load stability compared to thick film down to 0.1% • Customs available as a special order **Material Specifications:** • Resistor Material: Copper Nickel Manganese-Foil (CuNiMn-Foil) • Substrate: (FPR2-T220 and FPS2-T220 Series) Al_2O_3 or anodized aluminium; (FPR2-T218 Series) anodized aluminium • Connector Material: Tinned Copper **Electrical Specifications:** • Temperature Coefficient: R>0.2Ω ±15ppm/K (20°C ~ 60°C) R≤0.2Ω (See chart for TCR) • Operating Temperature Range: -40°C ~ 130°C
Power Rating Notes: For the full power rating resistors must be attached to a suitable heat sink. The maximum internal resistor temperature is 130°C.
Applications: • Current Sense • High frequency • Power Supplies • Telecom • Instrumentation • Test Equipment

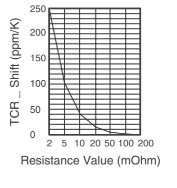

Fig. 1 — FPS2-T220 (Surface Mount)

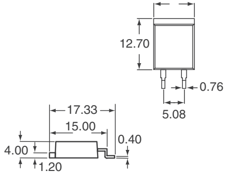

Fig. 2 — FPR2-T220

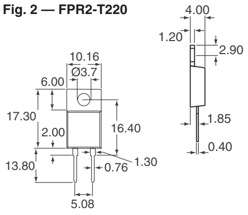

Fig. 3 — FPR2-T218

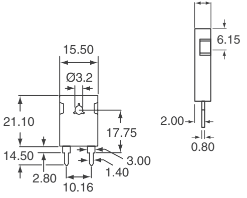

Resistance Values — FPS2-T220 Series

0.005	0.020	0.075	0.200	0.360	5.000
0.010	0.025	0.100	0.250	0.500	10.000
0.015	0.050	0.150	0.300	1.000	50.000

Resistance Values — FPR2-T220 Series

0.002	0.020	0.075	0.200	0.360	1.000	25.000
0.010	0.025	0.100	0.250	0.500	5.000	50.000
0.015	0.050	0.150	0.300	0.750	10.000	

Resistance Values — FPR2-T218 Series

0.002	0.015	0.100	0.250	0 .750	10.000
0.005	0.050	0.150	0.300	1.000	25.000
0.010	0.075	0.200	0.500	5.000	50.000

Fig.	Power Rating	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Price Each			Digi-Key Part No.†	Tape and Reel Pricing			Riedon Part No.
					1	10	50		500	1,000	2,500	
1	15W	0.005 ~ 50.000	1	FPS2-T220(Value)CT-ND‡	8.52	6.39	5.68	FPS2-T220(Value)TR-ND	2775.00	4704.00	4526.00/M	FPS2-T220 xxxxxx Ohm 1%
2	15W	0.002 ~ 50.000	1	FPR2-T220(Value)-ND	8.28	6.90	6.04	—	—	—	—	FPR2-T220 xxxxxx Ohm 1%
3	30W	0.002 ~ 50.000	1	FPR2-T218(Value)-ND	7.38	5.46	4.81	—	—	—	—	FPR2-T218 xxxxxx Ohm 1%

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value). ‡ Cut Tape

SMD Power Thick Film Resistors

Features: • Convenient TO126 SMD housing (D-PAK) • 25 Watt Power Rating • Solder reflow safe (260°C / 20s) • Non Inductive Design **Material Specification:** • Thick film on AL_2O_3 **Electrical Specifications:** • Temperature Coefficient: to 100ppm • Operating Temperature: -40°C ~ 175°C • 2kV Voltage Rating ***Power Rating Notes: For the full power rating resistors must be attached to a suitable heatsink.*** **Applications:** • Power Supplies • Medical Devices • Telecom • Automotive

Resistance Values

.025	.20	.75	25	500	2.5K
.075	.25	1	50	1.0K	5.0K
.10	.30	5	100	1.5K	10.0K
.15	.50	10	250	2.0K	

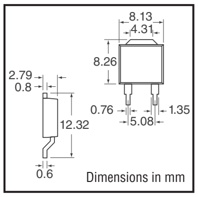

Dimensions in mm

Power Rating	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing			Riedon Part No.
				1	10	50		500	1,000	2,500	
25W	.075	5	NPS2-T126-.075JCT-ND	7.68	5.53	4.92	—	—	—	—	NPS 2-T126 xxxxx Ohm 5%
25W	.15 ~ .75	5	NPS2-T126-(Value)JCT-ND	6.33	4.69	4.13	—	—	—	—	NPS 2-T126 xxxx Ohm 5%
25W	1 ~ 10.0K	1	NPS2-T126-(Value)FCT-ND	6.33	4.69	4.13	NPS2-T126-(Value)FTR-ND	1771.00	3416.00	3289.00/M	NPS 2-T126 xxxxxxxxx Ohm 1%

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value).

SMD Wirewound Resistors – S Series

Features: • Resistance: 0.010 ~ 47kΩ • High Power: 0.5 ~ 4 Watts • Low Temperature Coefficient: >10Ω: ±20ppm/K • Superior surge handling capability • Reel packaging • Non-inductive windings are available (Type SN) • Lead Thickness: 0.006" (0.15mm) • Stand-Off Height: 0.005" (0.13mm)

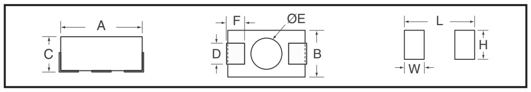

S-1 Resistance Values

0.010	0.100	1.000	150
0.015	0.150	10	220
0.020	0.200	15	
0.030	0.300	22	
0.036	0.360	47	
0.050	0.470	68	
0.075	0.750	100	

S-2 Resistance Values

0.010	0.150	10	220
0.015	0.200	15	470
0.020	0.300	22	680
0.030	0.500	47	1500
0.050	0.680	68	2200
0.075	0.750	100	3000
0.100	1.000	150	

S-4 Resistance Values

0.010	0.150	15	470	15000
0.015	0.200	22	680	
0.020	0.300	47	1500	
0.030	0.500	68	2200	
0.050	0.750	100	4700	
0.075	1.000	150	6800	
0.100	10	220	10000	

S-3 Resistance Values

0.010	0.150	15	470	15000
0.015	0.200	22	680	22000
0.020	0.300	47	1500	
0.030	0.500	68	2200	
0.050	0.750	100	4700	
0.075	1.000	150	6800	
0.100	10	220	10000	

S-5 Resistance Values

0.010	68	6800
0.050	100	10000
0.100	220	15000
1.000	470	22000
10	680	47000
22	2200	
47	4700	

	Dimensions – mm					Stand-Off (mm)	Footprint (mm)		
Type	A	B	C	D	F	øE	W	H	L
S-1	4.8	3.3	2.8	1.5	1.0	2.5	1.6	2.5	6.4
S-2	6.6	3.9	3.2	1.8	1.8	3.0	2.4	2.8	8.6
S-4	11.4	6.4	4.6	3.0	2.5	4.8	3.9	5.8	13.7
S-3	15.9	6.9	6.4	3.0	3.4	3.8	5.1	3.8	17.8
S-5	20.8	7.5	7.1	3.8	4.8	6.2	5.6	6.4	22.9

Type	Power Rating @ 70°C	Working Voltage (Max.)	Resistance Range Ω	Tolerance %	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel		Riedon Part No.
						1	10	50		Qty.	Pricing	
S-1	0.5W	33	0.010 ~ 220	1	S-1-(Value)FCT-ND	1.69	1.09	.90	S-1-(Value)FTR-ND	3,000	658.00/M	S-1 xxxxx Ohm 1%
S-2	1W	58	0.010 ~ 3000	1	S-2-(Value)FCT-ND	1.73	1.11	.92	S-2-(Value)FTR-ND	2,000	684.00/M	S-2 xxxxx Ohm 1%
S-4	2W	127	0.010 ~ 15000	1	S-4-(Value)FCT-ND	1.73	1.11	.92	S-4-(Value)FTR-ND	1,000	720.00	S-4 xxxxx Ohm 1%
S-3	3W	150	0.010 ~ 22000	1	S-3-(Value)FCT-ND	2.24	1.44	1.19	S-3-(Value)FTR-ND	500	467.50	S-3 xxxxx Ohm 1%
S-5	4W	212	0.010 ~ 47000	1	S-5-(Value)FCT-ND	2.24	1.44	1.19	S-5-(Value)FTR-ND	500	467.50	S-5 xxxxx Ohm 1%

† For complete Digi-Key part number, substitute the value from Resistance Values chart for (Value).

NEW! Miniature Silicone Coated Power Resistors – UB Series

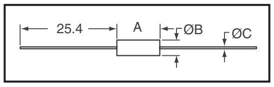

Features: • Ideal where space is limited • High Power Rating in a small package • Low TCR: ±20ppm/K Standard • Temperature Range: -55°C ~ 250°C • Temperature Coefficient: >10Ω: ±20ppm/K, 1Ω ~ 10Ω: ±50ppm/K **Material Specifications:** • Wirewound on high quality ceramic core • All welded terminations • High temperature inorganic Silicone coating **Electrical Specifications:** • Short time overload: 5X for 5 seconds

UB3C Resistance Values

.10	.33	1.8	4.0	8.2	20	40	100	200	330	680
.20	.50	2.0	5.0	10	25	50	120	220	470	900
.25	1.0	3.0	5.6	12	30	56	150	250	500	1.0K
.30	1.5	3.3	7.5	15	33	75	180	300	560	1.5K

UB5C Resistance Values

.10	.33	1.8	4.0	8.2	20	40	100	200	330	680	2.0K
.20	.50	2.0	5.0	10	25	50	120	220	470	900	5.0K
.25	1.0	3.0	5.6	12	30	56	150	250	500	1.0K	
.30	1.5	3.3	7.5	15	33	75	180	300	560	1.5K	

Power Rating	Working Voltage (Max.)	Resistance Range (Ω)	Tolerance %	Dimensions – mm			Digi-Key Part No.†	Price Each			Riedon Part No.
				A	B	C		1	10	50	
3W	135	.10, .20, .30, .50	1	8.9	4.0	0.8	UB3C-(Value)-ND	1.25	.80	.63	UB3C-0RxF1
	135	.25, .33	1	8.9	4.0	0.8	UB3C-(Value)-ND	1.25	.80	.63	UB3C-0RxxF1
	135	1.0, 2.0, 3.0, 4.0, 5.0	1	8.9	4.0	0.8	UB3C-(Value)-ND	.92	.55	.42	UB3C-xRF1
	135	1.5, 1.8, 3.3, 5.6, 7.5, 8.2	1	8.9	4.0	0.8	UB3C-(Value)-ND	.92	.55	.42	UB3C-xRxF1
	135	10 ~ 75	1	8.9	4.0	0.8	UB3C-(Value)-ND	.92	.55	.42	UB3C-xxRF1
	135	100 ~ 900	1	8.9	4.0	0.8	UB3C-(Value)-ND	.92	.55	.42	UB3C-xxxRF1
	135	1.0K	1	8.9	4.0	0.8	UB3C-1.0K-ND	.92	.55	.42	UB3C-1KF1
	135	1.5K	1	8.9	4.0	0.8	UB3C-1.5K-ND	.92	.55	.42	UB3C-1K5F1
5W	194	.10, .20, .30, .50	1	12.7	5.5	1.0	UB5C-(Value)-ND	1.29	.80	.65	UB5C-0RxF1
	194	.25, .33	1	12.7	5.5	1.0	UB5C-(Value)-ND	1.29	.80	.65	UB5C-0RxxF1
	194	1.0, 2.0, 3.0, 4.0, 5.0	1	12.7	5.5	1.0	UB5C-(Value)-ND	.95	.58	.44	UB5C-xRF1
	194	1.5, 1.8, 3.3,5.6, 7.5, 8.2	1	12.7	5.5	1.0	UB5C-(Value)-ND	.95	.58	.44	UB5C-xRxF1
	194	10 ~ 75	1	12.7	5.5	1.0	UB5C-(Value)-ND	.95	.58	.44	UB5C-xxRF1
	194	100 ~ 900	1	12.7	5.5	1.0	UB5C-(Value)-ND	.95	.58	.44	UB5C-xxxRF1
	194	1.0K, 2.0K, 5.0K	1	12.7	5.5	1.0	UB5C-(Value)-ND	.95	.58	.44	UB5C-xKF1
	194	1.5K	1	12.7	5.5	1.0	UB5C-1.5K-ND	.95	.58	.44	UB5C-1K5F1

† For complete Digi-Key part number, substitute the value from Resistance Values chart for (Value).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Surface Mount Chip Resistor Arrays

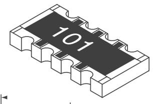

FEATURES: High Density: • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in 3.2mm x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 1.4mm x 0.6mm size (EXB-18V) • 4 resistors in 2.0mm x 1.0mm size (EXB-28V) • 4 resistors in 2.0mm x 1.0mm size (EXB-N8V) • 2 resistors in 1.6mm x 1.6mm size (EXB-34V) • 4 resistors in 3.2mm x 1.6mm size (EXB-38V) • 8 resistors in 3.8mm x 1.6mm size (EXB-2HV) • Improvement of placement efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

SPECIFICATIONS: • Resistance Tolerance: J: ±5% • Power Rating at 70°C: 1/16W per element; 1/32W for EXB-14V, EXB-28V, EXB-N8V and EXB-18V • Maximum Rated Continuous Working Voltage ‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V and EXB-18V • Maximum Overload Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V and EXB-18V • Temperature Characteristic Range: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

EXB-N8V, EXB-V4V and EXB-V8V

Type	Dimensions – mm								Weight (g/M pcs.)
	L	W	T	A1	A2	B	P	G	
EXB-N8V	2.0	1.0	0.45	0.3	0.3	0.2	0.5	0.30	3.0
EXB-V4V	1.6	1.6	0.60	0.6	—	0.3	0.8	0.45	5.0
EXB-V8V	3.2	1.6	0.60	0.6	0.6	0.3	0.8	0.45	10

‡ Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed, whichever is less.

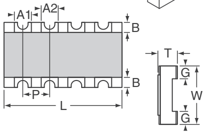

Isolated Terminals

Fig. 1 —
2 Resistors

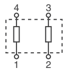

Fig. 2 —
4 Resistors

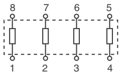

Fig. 3 —
8 Resistors

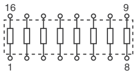

EXB-14V

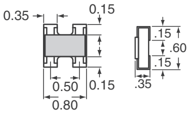

EXB-18V

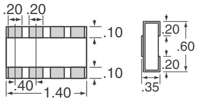

EXB-24V

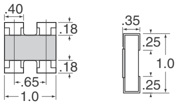

EXB-28V

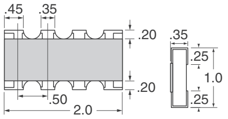

EXB-34V

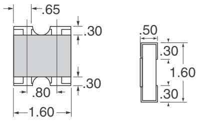

EXB-38V

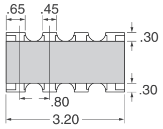

EXB-2HV

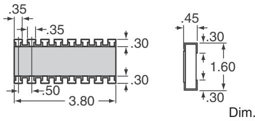

Dim. in mm

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V and EXB-38V Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	3R9 (3R9)	27 (270)	470 (471)	8.2K (822)	150K (154)
1.0 (1R0)	4R3 (4R3)	33 (330)	560 (561)	10K (103)	180K (184)
1.1 (1R1)	4R7 (4R7)	39 (390)	680 (681)	12K (123)	220K (224)
1.2 (1R2)	5R1 (5R1)	47 (470)	820 (821)	15K (153)	270K (274)
1.3 (1R3)	5R6 (5R6)	56 (560)	1.0K (102)	18K (183)	330K (334)
1.5 (1R5)	6R2 (6R2)	68 (680)	1.2K (122)	22K (223)	390K (394)
1.6 (1R6)	6R8 (6R8)	82 (820)	1.5K (152)	27K (273)	470K (474)
1.8 (1R8)	7R5 (7R5)	100 (101)	1.8K (182)	33K (333)	560K (564)
2.0 (2R0)	8R2 (8R2)	120 (121)	2.2K (222)	39K (393)	680K (684)
2.2 (2R2)	9R1 (9R1)	150 (151)	2.7K (272)	47K (473)	820K (824)
2.4 (2R4)	10 (100)	180 (181)	3.3K (332)	56K (563)	1M (105)
2.7 (2R7)	12 (120)	220 (221)	3.9K (392)	68K (683)	
3.0 (3R0)	15 (150)	270 (271)	4.7K (472)	82K (823)	
3.3 (3R3)	18 (180)	330 (331)	5.6K (562)	100K (104)	
3.6 (3R6)	22 (220)	390 (391)	6.8K (682)	120K (124)	

EXB-14V and EXB-18V Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	47 (470)	270 (271)	1.5K (152)	8.2K (822)	47K (473)	270K (274)
10 (100)	56 (560)	330 (331)	1.8K (182)	10K (103)	56K (563)	330K (334)
12 (120)	68 (680)	390 (391)	2.2K (222)	12K (123)	68K (683)	390K (394)
15 (150)	82 (820)	470 (471)	2.7K (272)	15K (153)	82K (823)	470K (474)
18 (180)	100 (101)	560 (561)	3.3K (332)	18K (183)	100K (104)	560K (564)
22 (220)	120 (121)	680 (681)	3.9K (392)	22K (223)	120K (124)	680K (684)
27 (270)	150 (151)	820 (821)	4.7K (472)	27K (273)	150K (154)	820K (824)
33 (330)	180 (181)	1.0K (102)	5.6K (562)	33K (333)	180K (184)	1M (105)
39 (390)	220 (221)	1.2K (122)	6.8K (682)	39K (393)	220K (224)	

EXB-2HV Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	10 (100)	120 (121)	1.5K (152)	18K (183)	220K (224)
1.0 (1R0)	12 (120)	150 (151)	1.8K (182)	22K (223)	270K (274)
1.2 (1R2)	15 (150)	180 (181)	2.2K (222)	27K (273)	330K (334)
1.5 (1R5)	18 (180)	220 (221)	2.7K (272)	33K (333)	390K (394)
1.8 (1R8)	22 (220)	270 (271)	3.3K (332)	39K (393)	470K (474)
2.2 (2R2)	27 (270)	330 (331)	3.9K (392)	47K (473)	560K (564)
2.7 (2R7)	33 (330)	390 (391)	4.7K (472)	56K (563)	680K (684)
3.3 (3R3)	39 (390)	470 (471)	5.6K (562)	68K (683)	820K (824)
3.9 (3R9)	47 (470)	560 (561)	6.8K (682)	82K (823)	1M (105)
4.7 (4R7)	56 (560)	680 (681)	8.2K (822)	100K (104)	
5.6 (5R6)	68 (680)	820 (821)	10K (103)	120K (124)	
6.8 (6R8)	82 (820)	1.0K (102)	12K (123)	150K (154)	
8.2 (8R2)	100 (101)	1.2K (122)	15K (153)	180K (184)	

EXB-28V and EXB-N8V Series Isolated Terminals Resistance Codes (E24 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	6.8 (6R8)	51 (510)	390 (391)	3.0K (302)	22K (223)	160K (164)
1.0 (1R0)	7.5 (7R5)	56 (560)	430 (431)	3.3K (332)	24K (243)	180K (184)
1.1 (1R1)	8.2 (8R2)	62 (620)	470 (471)	3.6K (362)	27K (273)	200K (204)
1.2 (1R2)	9.1 (9R1)	68 (680)	510 (511)	3.9K (392)	30K (303)	220K (224)
1.3 (1R3)	10 (100)	75 (750)	560 (561)	4.3K (432)	33K (333)	240K (244)
1.5 (1R5)	11 (110)	82 (820)	620 (621)	4.7K (472)	36K (363)	270K (274)
1.6 (1R6)	12 (120)	91 (910)	680 (681)	5.1K (512)	39K (393)	300K (304)
1.8 (1R8)	13 (130)	100 (101)	750 (751)	5.6K (562)	43K (433)	330K (334)
2.0 (2R0)	15 (150)	110 (111)	820 (821)	6.2K (622)	47K (473)	360K (364)
2.2 (2R2)	16 (160)	120 (121)	910 (911)	6.8K (682)	51K (513)	390K (394)
2.4 (2R4)	18 (180)	130 (131)	1.0K (102)	7.5K (752)	56K (563)	430K (434)
2.7 (2R7)	20 (200)	150 (151)	1.1K (112)	8.2K (822)	62K (623)	470K (474)
3.0 (3R0)	22 (220)	160 (161)	1.2K (122)	9.1K (912)	68K (683)	510K (514)
3.3 (3R3)	24 (240)	180 (181)	1.3K (132)	10K (103)	75K (753)	560K (564)
3.6 (3R6)	27 (270)	200 (201)	1.5K (152)	11K (113)	82K (823)	620K (624)
3.9 (3R9)	30 (300)	220 (221)	1.6K (162)	12K (123)	91K (913)	680K (684)
4.3 (4R3)	33 (330)	240 (241)	1.8K (182)	13K (133)	100K (104)	750K (754)
4.7 (4R7)	36 (360)	270 (271)	2.0K (202)	15K (153)	110K (114)	820K (824)
5.1 (5R1)	39 (390)	300 (301)	2.2K (222)	16K (163)	120K (124)	910K (914)
5.6 (5R6)	43 (430)	330 (331)	2.4K (242)	18K (183)	130K (134)	1M (105)
6.2 (6R2)	47 (470)	360 (361)	2.7K (272)	20K (203)	150K (154)	

Fig.	No. of Resistors	Resistor Value Range§	Digi-Key Part No.†	Cut Tape Pricing				Digi-Key Part No.†	Tape and Reel Pricing			Panasonic Part No.†
				1	50	100	250		5,000	10,000	30,000	
2	4	E24	Y10(Code)CT-ND	.15	2.93	4.46	8.29	Y10(Code)TR-ND	—	8.42/M	—	EXB-N8V☐☐☐JX
1	2	E12	Y2(Code)CT-ND	.26	5.25	8.10	15.75	Y2(Code)TR-ND	18.00/M	17.00/M	—	EXB-V4V☐☐☐JV
2	4	E12	Y4(Code)CT-ND	.44	8.75	13.50	26.25	Y4(Code)TR-ND	30.00/M	28.00/M	—	EXB-V8V☐☐☐JV
1	2	E12	Y3(Code)CT-ND	.66	12.81	20.59	40.03	Y3(Code)TR-ND	—	50.00/M	48.00/M	EXB-14V☐☐☐JX
2	4	E12	Y6(Code)CT-ND◆	.83	17.11	28.26	55.78	Y6(Code)TR-ND◆	—	79.00/M	—	EXB-18V☐☐☐JX
1	2	E12	Y5(Code)CT-ND	.45	8.75	14.06	27.34	Y5(Code)TR-ND	—	34.00/M	33.00/M	EXB-24V☐☐☐JX
2	4	E24	Y7(Code)CT-ND	.45	8.75	14.06	27.34	Y7(Code)TR-ND	—	34.00/M	33.00/M	EXB-28V☐☐☐JX
1	2	E12	Y8(Code)CT-ND	.23	4.31	6.56	12.19	Y8(Code)TR-ND	14.00/M	12.00/M	—	EXB-34V☐☐☐JV
2	4	E12	Y9(Code)CT-ND	.23	4.49	6.83	12.68	Y9(Code)TR-ND	15.00/M	13.00/M	—	EXB-38V☐☐☐JV
3	8	E12	Y1(Code)CT-ND	.63	12.94	21.38	42.19	Y1(Code)TR-ND	61.00/M	59.00/M	—	EXB-2HV☐☐☐JV

† For complete part number, substitute the corresponding resistance Code. § E24 Resistance Values are available for other series. Please call Digi-Key for details. ◆ ***RoHS Compliant***

RF Jumper Chip Resistor

SPECIFICATIONS:

• Isolation (2.5GHz): -40dB maximum • Return Loss (2.5GHz): -20dB maximum • Rated Current: 1A (derating curve for jumpers operated in ambient temperatures above 70°C, rated current shall be derated in accordance with derating curve chart • Number of Terminals: 6 • Temperature Range: -55°C ~ 125°C

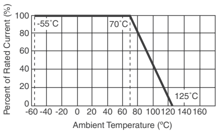

Dim. in mm

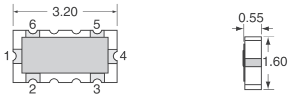

Resistance (1-4 Terminal)	Insertion Loss (2.5GHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel Pricing			Panasonic Part No.
			1	50	100	250		5,000	10,000	25,000	
50mΩ max.	-0.5dB max.	P0.0NCT-ND	.69	14.23	23.51	46.41	P0.0NTR-ND	67.00/M	65.00/M	63.00/M	EXB-D6JP000A

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

Surface Mount Chip Resistor Networks – Series
EXB-A, EXB-E, EXB-D and EXB-Q

Digi-Reel®

FEATURES: • **High Density:** Bussed 8 resistors for pull up/down circuit in EXB-A Type 2512 (6.4mm x 3.1mm x 0.55mm), EXB-E Type 1608 (4.0mm x 2.1mm x 0.55mm), EXB-D Type 1206 (3.2mm x 1.6mm x 0.55mm) size and EXB-Q Type 1506 (3.8mm x 1.6mm x 0.45mm) • **Automatic Placement:** Taped and reeled packaging is suitable for high speed automatic placement machine • EXB-Q has available direct placing on the bus line by means of half pitch spacing without through-holes on PWB. It also features high speed mounting by conventional placing machine.
SPECIFICATIONS: • **Resistance Range:** 47Ω ~ 1MΩ (EXB-Q: 100Ω ~ 470KΩ) • **Resistance Tolerance:** ±5% • **Number of Terminals:** 10 Terminals (EXB-Q: 16 Terminals) • **Number of Resistors:** 8 Resistors (EXB-Q: 15 Resistors) • **Power Rating at 70°C:** 63mW/element (EXB-D: 50mW/element; EXB-Q: 25mW/element) • **Maximum Rated Continuous Working Voltage †:** EXB-A: 50V; EXB-E, EXB-D and EXB-Q: 25V • **Maximum Overload Voltage:** EXB-A: 100V; EXB-E, EXB-D and EXB-Q: 50V • **Temperature Characteristic Range:** ±200 ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

† Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed above, whichever is less.

Resistance Codes for EXB-A, EXB-E and EXB-D
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
47 (470)	680 (681)	10K (103)	150K (154)
56 (560)	820 (821)	12K (123)	180K (184)
68 (680)	1.0K (102)	15K (153)	220K (224)
82 (820)	1.2K (122)	18K (183)	270K (274)
100 (101)	1.5K (152)	22K (223)	330K (334)
120 (121)	1.8K (182)	27K (273)	390K (394)
150 (151)	2.2K (222)	33K (333)	470K (474)
180 (181)	2.7K (272)	39K (393)	560K (564)
220 (221)	3.3K (332)	47K (473)	680K (684)
270 (271)	3.9K (392)	56K (563)	820K (824)
330 (331)	4.7K (472)	68K (683)	1M (105)
390 (391)	5.6K (562)	82K (823)	
470 (471)	6.8K (682)	100K (104)	
560 (561)	8.2K (822)	120K (124)	

Resistance Codes for EXB-Q
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	1K (102)	10K (103)	100K (104)
150 (151)	1.5K (152)	15K (153)	150K (154)
220 (221)	2.2K (222)	22K (223)	220K (224)
330 (331)	3.3K (332)	33K (333)	330K (334)
470 (471)	4.7K (472)	47K (473)	470K (474)
680 (681)	6.8K (682)	68K (683)	

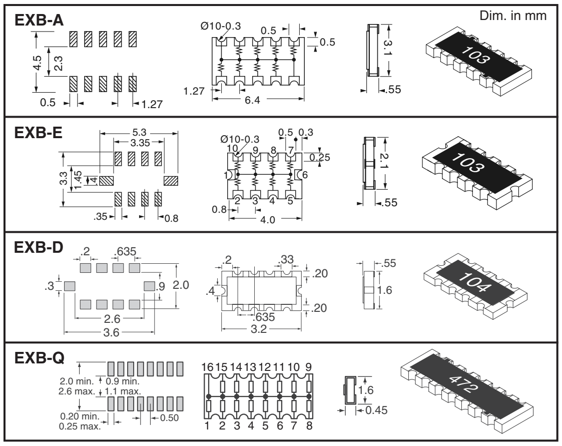

Digi-Key* Part No.	Cut Tape Pricing 1	50	100	250	500	Digi-Key* Part No.	Tape and Reel Pricing 4,000	5,000	8,000	10,000	Panasonic* Part No.
U7(Code)CT-ND	.99	25.30	41.69	92.00	152.38	U7(Code)TR-ND	154.00/M	—	151.00/M	—	EXB-A10P(Code)J
U8(Code)CT-ND	.83	20.40	31.88	70.13	114.75	U8(Code)TR-ND	115.00/M	—	113.00/M	—	EXB-E10C(Code)J
U9(Code)CT-ND	.83	20.40	31.88	70.13	114.75	U9(Code)TR-ND	—	113.00/M	—	108.00/M	EXB-D10C(Code)J
U6(Code)CT-ND	1.12	29.95	52.41	116.06	194.68	U6(Code)TR-ND	—	195.00/M	—	187.00/M	EXB-Q16P(Code)J

* For complete part number, substitute the corresponding resistance Code.

Surface Mount 0404 Balanced 0 Type Chip Attenuator
– Series EXB-24AB

Digi-Reel®

FEATURES: • Balanced "0" type attenuator circuit in one 0404 chip (1.0mm x 1.0mm) • Mounting occupation area reduction; –approximately 65% reduction compared with the attenuator circuit and consists of four discrete 0402 chip resistors; –approximately 26% reduction compared with the attenuator circuit and consists of four discrete 0201 chip resistors • Mounting time reduction: 4 times >>> 1 time • Attenuation: 0dB to 10dB **APPLICATIONS:** • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example. **SPECIFICATIONS:** • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2.5GHz • VSWR (Voltage Standing Wave Ratio) 1.2 maximum (typical), 1.5 maximum (0dB, typical) • Operating Temperature Range: -55°C ~ 125°C

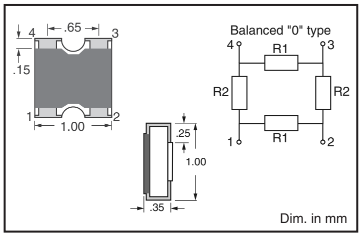

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Characteristic Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 10,000	Panasonic Part No.
±0.8	0	0	open	0	P11153CT-ND◆	.44	7.24	23.77	P11153TR-ND◆	88.00/M	EXB-24AB00R8X
	1	5.77	1.74k	100	P11154CT-ND	.44	7.24	23.77	P11154TR-ND	88.00/M	EXB-24AB1CR8X
	2	11.6	872	100	P11155CT-ND	.44	7.24	23.77	P11155TR-ND	88.00/M	EXB-24AB2CR8X
	3	17.6	585	100	P11156CT-ND	.44	7.24	23.77	P11156TR-ND	88.00/M	EXB-24AB3CR8X
±1.0	6	37.4	301	100	P11157CT-ND◆	.44	7.24	23.77	P11157TR-ND◆	88.00/M	EXB-24AB6C1RX
±2.0	10	71.2	192	100	P11158CT-ND	.44	7.24	23.77	P11158TR-ND	88.00/M	EXB-24ABAC2RX
±0.8	1	11.5	3.48k	200	P11159CT-ND	.44	7.24	23.77	P11159TR-ND	88.00/M	EXB-24AB1ER8X
	2	23.2	1.74k	200	P11160CT-ND	.44	7.24	23.77	P11160TR-ND	88.00/M	EXB-24AB2ER8X
	3	35.2	1.17k	200	P11161CT-ND	.44	7.24	23.77	P11161TR-ND	88.00/M	EXB-24AB3ER8X
	6	74.7	602	200	P11162CT-ND	.44	7.24	23.77	P11162TR-ND	88.00/M	EXB-24AB6E1RX
	10	142	385	200	P11163CT-ND	.44	7.24	23.77	P11163TR-ND	88.00/M	EXB-24ABAE2RX
	1	17.3	5.22k	300	P11164CT-ND	.44	7.24	23.77	P11164TR-ND	88.00/M	EXB-24AB1GR8X
	2	34.8	2.62k	300	P11165CT-ND	.44	7.24	23.77	P11165TR-ND	88.00/M	EXB-24AB2GR8X
	3	52.8	1.75k	300	P11166CT-ND	.44	7.24	23.77	P11166TR-ND	88.00/M	EXB-24AB3GR8X
±1.0	6	112	903	300	P11167CT-ND	.44	7.24	23.77	P11167TR-ND	88.00/M	EXB-24AB6G1RX
±2.0	10	213	577	300	P11168CT-ND	.44	7.24	23.77	P11168TR-ND	88.00/M	EXB-24ABAG2RX

◆ *RoHS Compliant*

Surface Mount 0404 Chip Attenuator
– Series EXB-24AT

Digi-Reel®

FEATURES: • Unbalanced π type attenuator circuit in one chip (1.0mm x 1.0mm) • Mounting occupation area reduction: about 50% reduction compared with attenuator circuit consisting of three 0402 chip resistors • Mounting Times reduction: 3 time >>> 1 time • Attenuation: 1dB to 10dB **APPLICATIONS:** • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example. **SPECIFICATIONS:** • Characteristic Impedance: 50Ω • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2GHz • VSWR (Voltage Standing Wave Ratio) 1.3 maximum

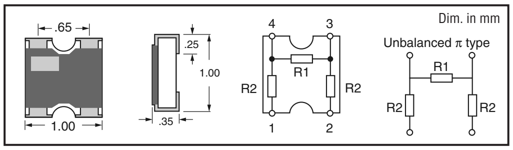

Attenuation - Frequency Characteristics (Typical)

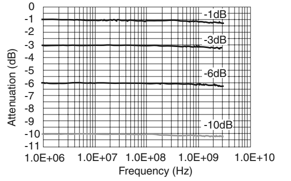

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 10,000	Panasonic Part No.
±0.3	1	5.77	870	P11103CT-ND	.62	8.69	26.40	P11103TR-ND	70.00/M	EXB-24AT1AR3X
	2	11.6	436	P11104CT-ND	.62	8.69	26.40	P11104TR-ND	70.00/M	EXB-24AT2AR3X
	3	17.6	292	P11105CT-ND	.57	8.10	24.60	P11105TR-ND	66.00/M	EXB-24AT3AR3X
	4	23.9	221	P11106CT-ND	.62	8.69	26.40	P11106TR-ND	70.00/M	EXB-24AT4AR3X
	5	30.4	179	P11107CT-ND	.62	8.69	26.40	P11107TR-ND	70.00/M	EXB-24AT5AR3X
±0.5	6	37.4	151	P11108CT-ND	.62	8.69	26.40	P11108TR-ND	70.00/M	EXB-24AT6AR5X
	10	71.2	96.3	P11109CT-ND	.62	8.77	26.64	P11109TR-ND	71.00/M	EXB-24ATAAR5X

2% Thick Film Resistor Networks

Digi-Reel®

Low Profile, Single-In-Line Package, Highly Stable, Equivalent to MIL-R-83401

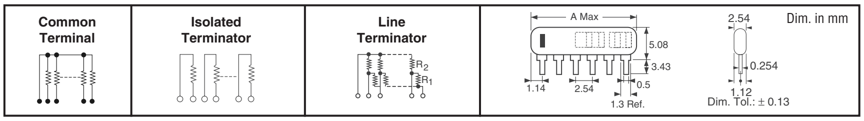

GENERAL SPECIFICATIONS:

Rated Power:
Common: 125mW (70°C); Isolated: 200mW (60°C); Line Terminator: 75mW (70°C).

Rated Continuous Working Voltage (RCWV): $\sqrt{\text{Rated Power x Resistance Value}}$ or 100V, whichever is less.

Operating Temperature Range:
–55°C ~ 125°C

Storage Temperature Range:
–55°C ~ 150°C

Common Terminal and Isolated Terminal: Resistance Codes

Value (Code)	Value (Code)	Value (Code)
100 (101)	6.8K (682)	150K (154)
150 (151)	8.2K (822)	330K (334)
220 (221)	15K (153)	560K (564)
330 (331)	22K (223)	680K (684)
560 (561)	33K (333)	
680 (681)	47K (473)	
820 (821)	56K (563)	
1.5K (152)	68K (683)	
5.6K (562)	82K (823)	

Line Terminator: Resistance Codes

R1/R2 (Code)
160/240 (T01)
180/390 (T02)
220/270 (T03)
220/330 (T04)
330/390 (T05)
330/470 (T06)
330/680 (T07)
1.5K/3.3K (T08)

Type	Res. Elements	No. of Pins	Dim. A (mm)	Digi-Key* Part No.	Pricing 1	50	100	250	500	Panasonic* Part No.
Common Terminal	5	6	14.88	Q5(Code)-ND	.39	8.46	12.58	26.58	45.56	EXB-F6E(Code)G
	7	8	19.96	Q7(Code)-ND	.51	11.10	16.51	34.88	59.79	EXB-F8E(Code)G
	9	10	25.04	Q9(Code)-ND	.50	11.83	18.65	39.45	64.55	EXB-F10E(Code)G
Isolated Terminator	3	6	14.88	Q2(Code)-ND	.39	8.46	12.58	26.58	45.56	EXB-F6V(Code)G
	4	8	19.96	Q4(Code)-ND	.51	11.10	16.51	34.88	59.79	EXB-F8V(Code)G
	5	10	25.04	Q6(Code)-ND	.50	11.83	18.65	39.45	64.55	EXB-F10V(Code)G
Line Terminator	8	6	14.88	Q0(Code)-ND	.48	11.40	17.97	38.01	62.20	EXB-F6WT(Code)G
	12	8	19.96	Q1(Code)-ND	.53	13.89	22.91	49.76	81.01	EXB-F8WT(Code)G
	16	10	25.04	Q3(Code)-ND	.49	15.61	27.16	60.69	98.26	EXB-F10WT(Code)G

* For complete part number, substitute the corresponding resistance Code.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Surface Mount Chip 3-Terminal Capacitor Array — Series EZA-SC

Features: **Suitable for EMI suppression filtering:** • The low residual inductance at high frequency range provides effective reduction of noise • Equivalent noise reduction to the EMI filters with low cost design **Compact design for high density PWB assembly:** • 4.0 x 2.1 x 0.65mm • Flat and square packages suitable for high speed automatic placement machine **Superior mountability with concave terminals:** • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow process

Specifications: • Capacitance Tolerance: ±20% (+30% / -20% in the case of 22pf) • Temperature Characteristic: ΔC: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 2.0% (25°C, 1kHz – In measuring at 1MHz, capacitance value and dissipation factor are different, 1 Vrms) • Rated Voltage: 25V • Rated Current: 200mA (between input terminal and output terminal) • Resistance: Less than 1.0Ω (between input terminal and output terminal) • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	250	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	22	P10192CT-ND	1.48	1.07	.98	.86	P10192TR-ND	400.00/M	EZA-SCE220M
25	47	P10193CT-ND	1.48	1.07	.98	.86	P10193TR-ND	400.00/M	EZA-SCE470M
25	100	P10194CT-ND	1.48	1.07	.98	.86	P10194TR-ND	400.00/M	EZA-SCE101M

Dimensions in mm

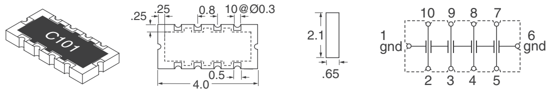

Panasonic® Surface Mount Chip Capacitor Networks — Series EZA-NP

Features: • Chip Capacitor Networks — exclusively developed by Panasonic thick film technology. Bussed 8 capacitors in one package (6.3mm x 3.2mm x 0.75mm), half-pitch (0.65mm) spacing for high density automatic placing • Superior noise reduction by using two ground terminals • Superior solderability by using Ni + Solder plating with unique concave terminals

Specifications:
• Capacitance Range: 47pF, 100pF, 220pF • Capacitance Tolerance: ±20% • Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.0% (25°C, 1kHz, 1Vrms) • Rated Voltage: 25V • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	250	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	47	PCN1001CT-ND	2.08	1.60	1.53	1.42	PCN1001TR-ND	659.00/M	EZA-NPE470M
25	100	PCN1002CT-ND	2.08	1.60	1.53	1.42	PCN1002TR-ND	659.00/M	EZA-NPE101M
25	220	PCN1003CT-ND	2.08	1.60	1.53	1.42	PCN1003TR-ND	659.00/M	EZA-NPE221M

Dimensions in mm

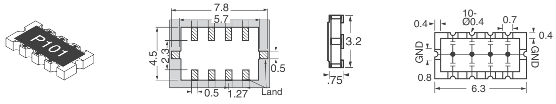

Panasonic® Surface Mount Chip RC Networks — Series EZA-ST, EZA-DT, EZA-DL, EZA-NT, and EZA-CT

Dimensions in mm

EZA-ST Series

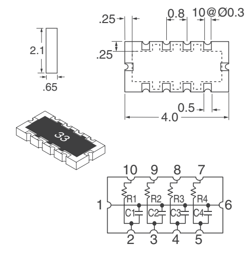

EZA-DT Series

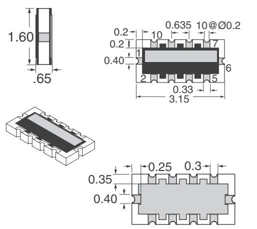

EZA-DL Series

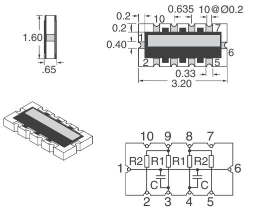

GND Terminal: 1,2,5,6
I/O Terminal: 3,4,8,9
Dummy Terminal: 7,10

EZA-NT Series

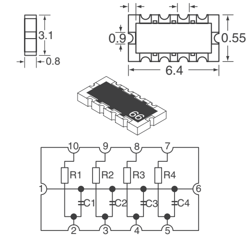

R1=R2=R3=R4
C1=C2=C3=C4

EZA-CT Series

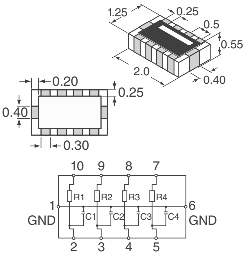

FEATURES: **EZA-CT Series:** • 4 RC circuits in one small package • 75% space savings compared to 0402 size **EZA-DT Series:** • Smallest SMD R/C networks • Four popular noise reduction circuits made from damping resistors and bypass capacitors in a smallest chip • EZAST: 4.0 x 2.1 x 0.65mm, 0.8mm pitch • EZADT: 3.2 x 1.6 x 0.65mm, 0.635mm pitch • EZANT: 6.4 x 3.1 x .80mm, 1.27mm pitch • Smaller occupied space than discrete 0402 (1.0 x 0.5 mm) • EZAST: 70% of 0402 (1.0 x 0.5mm) chips placing area • EZADT: 50% of 0402 (1.0 x 0.5mm) chips placing area • EZANT: 45% of 0805 (2.0 x 1.2mm) chips placing area **EZA-DL Series:** • Smallest SMD R/C filter for USB interface • Including 2 circuits of π type R/C filter in a chip (Chip size: 3.2 x 1.6mm) • Space saving and low placing cost **EZA-ST, EZA-DT, EZA-DL and EZA-NT Series:** • Superior mountability with concave terminal • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow soldering **Recommended Applications for EZA-DL Series**: • Information and amusement equipment containing USB interface

SPECIFICATIONS*:* Resistance Tolerance: ±5% • TCR: ±200 ppm/°C • Rated Power: 0.063W (≤70°C*) – For resistors operated in ambient temperature above 70°C, rated power shall be derated* • Maximum Rated Continuous Working Voltage: 25V *(Rated Voltage for resistor shall be determined from √Rated Power x Resistance Value, or Limiting Element Voltage [Maximum Rated Continuous Working Voltage], whichever is less.)* • Capacitance Tolerance: +30%/-20% • Capacitance Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.% (25°C, 1kHz - *In measuring at 1MHz, capacitance and dissipation factor are different*, 1 Vrms) • Rated Voltage: EZA-NT: 50V EZA-ST: 25V EZA-DT, EZA-CT and EZA-DL: 12V • Operating Temperature Range: -25°C ~ 85°C

Res. (Ω)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	50	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
EZA-ST Series										
22	22	PST11CT-ND	1.15	.92	.82	.74	PST11TR-ND	4,000	385.00/M	EZA-ST11AAAJ
	47	PST12CT-ND	1.15	.92	.82	.74	PST12TR-ND	4,000	385.00/M	EZA-ST12AAAJ
	100	PST13CT-ND◆	1.15	.92	.82	.74	PST13TR-ND◆	4,000	385.00/M	EZA-ST13AAAJ
47	22	PST21CT-ND◆	1.15	.92	.82	.74	PST21TR-ND◆	4,000	385.00/M	EZA-ST21AAAJ
	47	PST22CT-ND◆	1.15	.92	.82	.74	PST22TR-ND◆	4,000	385.00/M	EZA-ST22AAAJ
	100	PST23CT-ND◆	1.15	.92	.82	.74	PST23TR-ND◆	4,000	385.00/M	EZA-ST23AAAJ
100	22	PST31CT-ND◆	1.15	.92	.82	.74	PST31TR-ND◆	4,000	385.00/M	EZA-ST31AAAJ
	47	PST32CT-ND	1.15	.92	.82	.74	PST32TR-ND	4,000	385.00/M	EZA-ST32AAAJ
	100	PST33CT-ND◆	1.15	.92	.82	.74	PST33TR-ND◆	4,000	385.00/M	EZA-ST33AAAJ
220	22	PST41CT-ND	1.15	.92	.82	.74	PST41TR-ND	4,000	385.00/M	EZA-ST41AAAJ
	47	PST42CT-ND	1.15	.92	.82	.74	PST42TR-ND	4,000	385.00/M	EZA-ST42AAAJ
	100	PST43CT-ND	1.15	.92	.82	.74	PST43TR-ND	4,000	385.00/M	EZA-ST43AAAJ
470	22	PST51CT-ND	1.15	.92	.82	.74	PST51TR-ND	4,000	385.00/M	EZA-ST51AAAJ
	47	PST52CT-ND	1.15	.92	.82	.74	PST52TR-ND	4,000	385.00/M	EZA-ST52AAAJ
	100	PST53CT-ND◆	1.15	.92	.82	.74	PST53TR-ND◆	4,000	385.00/M	EZA-ST53AAAJ
1K	22	PST61CT-ND	1.15	.92	.82	.74	PST61TR-ND	4,000	385.00/M	EZA-ST61AAAJ
	47	PST62CT-ND	1.15	.92	.82	.74	PST62TR-ND	4,000	385.00/M	EZA-ST62AAAJ
	100	PST63CT-ND◆	1.15	.92	.82	.74	PST63TR-ND◆	4,000	385.00/M	EZA-ST63AAAJ
EZA-DT Series										
22	22	PDT11CT-ND◆	1.19	.64	.56	.50	PDT11TR-ND◆	5,000	207.00/M	EZA-DT11AAAJ
	47	PDT12CT-ND	1.19	.64	.56	.50	PDT12TR-ND	5,000	207.00/M	EZA-DT12AAAJ
	100	PDT13CT-ND	1.19	.64	.56	.50	PDT13TR-ND	5,000	207.00/M	EZA-DT13AAAJ
47	22	PDT21CT-ND◆	1.19	.64	.56	.50	PDT21TR-ND◆	5,000	207.00/M	EZA-DT21AAAJ
	47	PDT22CT-ND◆	1.19	.64	.56	.50	PDT22TR-ND◆	5,000	207.00/M	EZA-DT22AAAJ
	100	PDT23CT-ND	1.19	.64	.56	.50	PDT23TR-ND	5,000	207.00/M	EZA-DT23AAAJ
100	22	PDT31CT-ND	1.19	.64	.56	.50	PDT31TR-ND	5,000	207.00/M	EZA-DT31AAAJ
	47	PDT32CT-ND◆	1.19	.64	.56	.50	PDT32TR-ND◆	5,000	207.00/M	EZA-DT32AAAJ
	100	PDT33CT-ND◆	1.19	.64	.56	.50	PDT33TR-ND◆	5,000	207.00/M	EZA-DT33AAAJ
220	22	PDT41CT-ND	1.19	.64	.56	.50	PDT41TR-ND	5,000	207.00/M	EZA-DT41AAAJ
	47	PDT42CT-ND	1.19	.64	.56	.50	PDT42TR-ND	5,000	207.00/M	EZA-DT42AAAJ
	100	PDT43CT-ND	1.19	.64	.56	.50	PDT43TR-ND	5,000	207.00/M	EZA-DT43AAAJ
470	22	PDT51CT-ND	1.19	.64	.56	.50	PDT51TR-ND	5,000	207.00/M	EZA-DT51AAAJ
	47	PDT52CT-ND	1.19	.64	.56	.50	PDT52TR-ND	5,000	207.00/M	EZA-DT52AAAJ
	100	PDT53CT-ND	1.19	.64	.56	.50	PDT53TR-ND	5,000	207.00/M	EZA-DT53AAAJ
1K	22	PDT61CT-ND	1.19	.64	.56	.50	PDT61TR-ND	5,000	207.00/M	EZA-DT61AAAJ
	47	PDT62CT-ND	1.19	.64	.56	.50	PDT62TR-ND	5,000	207.00/M	EZA-DT62AAAJ
	100	PDT63CT-ND◆	1.19	.64	.56	.50	PDT63TR-ND◆	5,000	207.00/M	EZA-DT63AAAJ
EZA-DL Series										
27/15K	47	PDLU01CT-ND	.88	.45	.37	.33	PDLU01TR-ND	5,000	134.00/M	EZA-DLU01AAJ
15/15K	47	PDLU02CT-ND	.88	.45	.37	.33	PDLU02TR-ND	5,000	134.00/M	EZA-DLU02AAJ
EZA-NT Series										
22	220	PNT14CT-ND◆	1.19	.89	.82	.72	PNT14TR-ND◆	4,000	313.00/M	EZA-NT14AAAJ
	470	PNT15CT-ND◆	1.19	.89	.82	.72	PNT15TR-ND◆	4,000	313.00/M	EZA-NT15AAAJ
	1000	PNT16CT-ND◆	1.19	.89	.82	.72	PNT16TR-ND◆	4,000	313.00/M	EZA-NT16AAAJ
47	220	PNT24CT-ND◆	1.19	.89	.82	.72	PNT24TR-ND◆	4,000	313.00/M	EZA-NT24AAAJ
	470	PNT25CT-ND◆	1.19	.89	.82	.72	PNT25TR-ND◆	4,000	313.00/M	EZA-NT25AAAJ
	1000	PNT26CT-ND◆	1.19	.89	.82	.72	PNT26TR-ND◆	4,000	313.00/M	EZA-NT26AAAJ
100	220	PNT34CT-ND	1.19	.89	.82	.72	PNT34TR-ND	4,000	313.00/M	EZA-NT34AAAJ
	470	PNT35CT-ND	1.19	.89	.82	.72	PNT35TR-ND	4,000	313.00/M	EZA-NT35AAAJ
	1000	PNT36CT-ND	1.19	.89	.82	.72	PNT36TR-ND	4,000	313.00/M	EZA-NT36AAAJ
220	220	PNT44CT-ND◆	1.19	.89	.82	.72	PNT44TR-ND◆	4,000	313.00/M	EZA-NT44AAAJ
	470	PNT45CT-ND◆	1.19	.89	.82	.72	PNT45TR-ND◆	4,000	313.00/M	EZA-NT45AAAJ
	1000	PNT46CT-ND◆	1.19	.89	.82	.72	PNT46TR-ND◆	4,000	313.00/M	EZA-NT46AAAJ
470	220	PNT54CT-ND	1.19	.89	.82	.72	PNT54TR-ND	4,000	313.00/M	EZA-NT54AAAJ
	470	PNT55CT-ND	1.19	.89	.82	.72	PNT55TR-ND	4,000	313.00/M	EZA-NT55AAAJ
	1000	PNT56CT-ND	1.19	.89	.82	.72	PNT56TR-ND	4,000	313.00/M	EZA-NT56AAAJ
1K	220	PNT64CT-ND◆	1.19	.89	.82	.72	PNT64TR-ND◆	4,000	313.00/M	EZA-NT64AAAJ
	470	PNT65CT-ND◆	1.19	.89	.82	.72	PNT65TR-ND◆	4,000	313.00/M	EZA-NT65AAAJ
	1000	PNT66CT-ND◆	1.19	.89	.82	.72	PNT66TR-ND◆	4,000	313.00/M	EZA-NT66AAAJ
EZA-CT Series — RoHS Compliant										
10	10	PCT00CT-ND	1.18	.64	.56	.49	PCT00TR-ND	5,000	205.00/M	EZA-CT00AAAJ
	22	PCT01CT-ND	1.18	.64	.56	.49	PCT01TR-ND	5,000	205.00/M	EZA-CT01AAAJ
22	10	PCT10CT-ND	1.18	.64	.56	.49	PCT10TR-ND	5,000	205.00/M	EZA-CT10AAAJ
	22	PCT11CT-ND	1.18	.64	.56	.49	PCT11TR-ND	5,000	205.00/M	EZA-CT11AAAJ
47	10	PCT20CT-ND	1.18	.64	.56	.49	PCT20TR-ND	5,000	205.00/M	EZA-CT20AAAJ
	22	PCT21CT-ND	1.18	.64	.56	.49	PCT21TR-ND	5,000	205.00/M	EZA-CT21AAAJ
100	10	PCT30CT-ND	1.18	.64	.56	.49	PCT30TR-ND	5,000	205.00/M	EZA-CT30AAAJ
	22	PCT31CT-ND	1.18	.64	.56	.49	PCT31TR-ND	5,000	205.00/M	EZA-CT31AAAJ

◆ *RoHS Compliant*

SMT Chip Resistor Arrays

Series TC164, YC122, YC124, YC164, YC248, YC324 and YC358

The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by resistive paste. The composition of the paste is adjusted to achieve an approximate resistance value, then the resistive layer is laser trimmed to the exact tolerance value. The resistive layer is covered with a protective coat. **SPECIFICATIONS**: • Resistance Tolerance: J: ±5% • Temperature Coefficient: ±200 ppm/°C • Operating Temperature Range: -55°C ~ 125°C • Maximum Working Voltage: 50V (YC324 Series: 200V) • Maximum Overload Voltage: 100V (YC324 Series: 500V) • Short Time Overload: 2.5 x RCWV for 5 seconds at 25°C • Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{P \times R}$ or maximum RCWV listed, whichever is less.

Dimensions in mm

TC164 Series

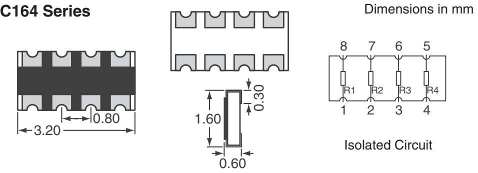

YC122 Series

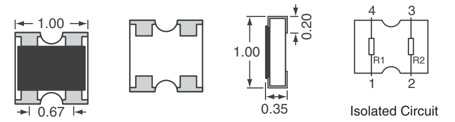

YC124 Series

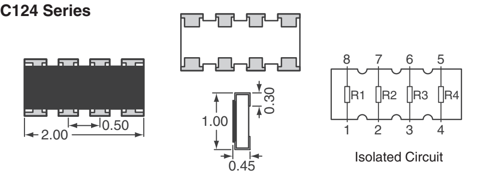

YC164 Series

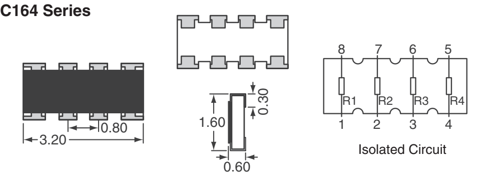

YC248 Series

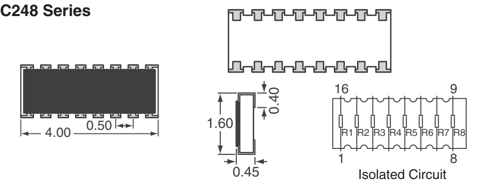

YC324 Series

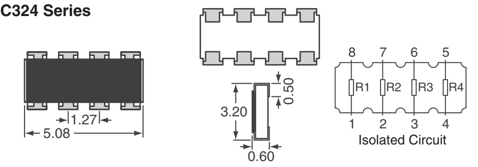

YC358 Series

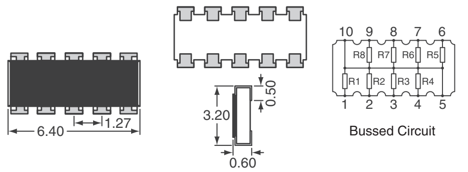

TC164 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	47 (47R)	330 (330R)	1.5K (1K5)	8.2K (8K2)	47K (47K)	270K (270K)
10 (10R)	51 (51R)	390 (390R)	1.8K (1K8)	10K (10K)	51K (51K)	330K (330K)
12 (12R)	68 (68R)	470 (470R)	2.2K (2K2)	12K (12K)	68K (68K)	390K (390K)
15 (15R)	82 (82R)	510 (510R)	2.7K (2K7)	15K (15K)	82K (82K)	470K (470K)
18 (18R)	100 (100R)	560 (560R)	3.3K (3K3)	18K (18K)	100K (100K)	510K (510K)
22 (22R)	120 (120R)	680 (680R)	3.9K (3K9)	22K (22K)	120K (120K)	560K (560K)
27 (27R)	180 (180R)	820 (820R)	4.7K (4K7)	27K (27K)	150K (150K)	680K (680K)
33 (33R)	220 (220R)	1.0K (1K)	5.6K (5K6)	33K (33K)	180K (180K)	1.0M (1M)
39 (39R)	270 (270R)	1.2K (1K2)	6.8K (6K8)	39K (39K)	220K (220K)	

YC122 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	27 (27R)	100 (100R)	2.2K (2K2)	6.8K (6K8)	18K (18K)	120K (120K)	1.0M (1M)
3.0 (3R))	33 (33R)	120 (120R)	2.7K (2K7)	8.2K (8K2)	22K (22K)	180K (180K)	
10 (10R)	47 (47R)	150 (150R)	3.3K (3K3)	10K (10K)	39K (39K)	270K (270K)	
15 (15R)	56 (56R)	220 (220R)	3.9K (3K9)	12K (12K)	47K (47K)	330K (330K)	
22 (22R)	82 (82R)	470 (470R)	4.7K (4K7)	15K (15K)	100K (100K)	470K (470K)	

YC124 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	20 (20R)	56 (56R)	180 (180R)	1.2K (1K2)	4.3K (4K3)	22K (22K)	390K (390K)
1.0 (1R)	22 (22R)	62 (62R)	220 (220R)	1.3K (1K3)	4.7K (4K7)	27K (27K)	430K (430K)
2.0 (2R)	24 (24R)	68 (68R)	300 (300R)	1.5K (1K5)	5.1K (5K1)	33K (33K)	470K (470K)
3.0 (3R)	27 (27R)	75 (75R)	330 (330R)	1.6K (1K6)	5.6K (5K6)	36K (36K)	560K (560K)
3.3 (3R3)	30 (30R)	82 (82R)	390 (390R)	1.8K (1K8)	6.8K (6K8)	47K (47K)	1.0M (1M)
4.7 (4R7)	33 (33R)	91 (91R)	470 (470R)	2.0K (2K)	8.2K (8K2)	75K (75K)	
5.1 (5R1)	36 (36R)	100 (100R)	510 (510R)	2.2K (2K2)	10K (10K)	100K (100K)	
7.5 (7R5)	39 (39R)	110 (110R)	560 (560R)	2.4K (2K4)	12K (12K)	120K (120K)	
10 (10R)	43 (43R)	120 (120R)	680 (680R)	2.7K (2K7)	15K (15K)	150K (150K)	
15 (15R)	47 (47R)	130 (130R)	1.0K (1K)	3.0K (3K)	18K (18K)	300K (300K)	
18 (18R)	51 (51R)	150 (150R)	1.1K (1K1)	3.3K (3K3)	20K (20K)	330K (330K)	

YC164 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	16 (16R)	75 (75R)	390 (390R)	1.8K (1K8)	9.1K (9K1)	51K (51K)	330K (330K)
1.0 (1R)	18 (18R)	82 (82R)	430 (430R)	2.0K (2K)	10K (10K)	56K (56K)	360K (360K)
3.0 (3R)	20 (20R)	91 (91R)	470 (470R)	2.2K (2K2)	11K (11K)	62K (62K)	390K (390K)
3.3 (3R3)	22 (22R)	100 (100R)	510 (510R)	2.4K (2K4)	12K (12K)	68K (68K)	430K (430K)
3.9 (3R9)	24 (24R)	120 (120R)	560 (560R)	2.7K (2K7)	13K (13K)	75K (75K)	470K (470K)
4.7 (4R7)	27 (27R)	130 (130R)	620 (620R)	3.0K (3K)	15K (15K)	82K (82K)	510K (510K)
5.1 (5R1)	30 (30R)	150 (150R)	680 (680R)	3.3K (3K3)	16K (16K)	100K (100K)	820K (820K)
5.6 (5R6)	33 (33R)	160 (160R)	820 (820R)	3.9K (3K9)	18K (18K)	110K (110K)	
6.8 (6R8)	39 (39R)	180 (180R)	910 (910R)	4.3K (4K3)	20K (20K)	120K (120K)	
7.5 (7R5)	43 (43R)	200 (200R)	1.0K (1K)	4.7K (4K7)	22K (22K)	150K (150K)	
10 (10R)	47 (47R)	220 (220R)	1.1K (1K1)	5.1K (5K1)	24K (24K)	160K (160K)	
11 (11R)	51 (51R)	240 (240R)	1.2K (1K2)	5.6K (5K6)	30K (30K)	200K (200K)	
12 (12R)	56 (56R)	270 (270R)	1.3K (1K3)	6.2K (6K2)	39K (39K)	220K (220K)	
13 (13R)	62 (62R)	300 (300R)	1.5K (1K5)	6.8K (6K8)	43K (43K)	240K (240K)	
15 (15R)	68 (68R)	330 (330R)	1.6K (1K6)	7.5K (7K5)	47K (47K)	270K (270K)	

YC248 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	33 (33R)	150 (150R)	560 (560R)	2.2K (2K2)	10K (10K)	56K (56K)
10 (10R)	47 (47R)	180 (180R)	680 (680R)	3.3K (3K3)	15K (15K)	100K (100K)
12 (12R)	56 (56R)	220 (220R)	820 (820R)	3.9K (3K9)	22K (22K)	120K (120K)
15 (15R)	68 (68R)	270 (270R)	1.0K (1K)	4.7K (4K7)	27K (27K)	180K (180K)
18 (18R)	82 (82R)	330 (330R)	1.2K (1K2)	5.6K (5K6)	33K (33K)	270K (270K)
22 (22R)	100 (100R)	390 (390R)	1.5K (1K5)	6.8K (6K8)	39K (39K)	330K (330K)
27 (27R)	120 (120R)	470 (470R)	1.8K (1K8)	8.2K (8K2)	47K (47K)	1.0M (1M)

YC324 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R)	51 (51R)	300 (300R)	750 (750R)	2.7K (2K7)	22K (22K)	270K (270K)
22 (22R)	56 (56R)	330 (330R)	1.0K (1K)	3.3K (3K3)	33K (33K)	510K (510K)
24 (24R)	100 (100R)	390 (390R)	1.2K (1K2)	6.2K (6K2)	47K (47K)	1.0M (1M)
33 (33R)	150 (150R)	470 (470R)	1.5K (1K5)	6.8K (6K8)	56K (56K)	
39 (39R)	220 (220R)	510 (510R)	2.0K (2K)	10K (10K)	68K (68K)	
47 (47R)	270 (270R)	680 (680R)	2.2K (2K2)	20K (20K)	100K (100K)	

YC358 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (56R)	330 (330R)	1.8K (1K8)	2.7K (2K7)	5.6K (5K6)	100K (100K)
100 (100R)	470 (470R)	2.0K (2K)	3.3K (3K3)	10K (10K)	
220 (220R)	1.0K (1K)	2.2K (2K2)	4.7K (4K7)	47K (47K)	

Series	No. of Terminals	No. of Resistors	Resistor Value Range (Ω)	Resistor Power Rating (mW @ 70°C)	Digi-Key* Part No.	Cut Tape Pricing			Digi-Key* Part No.	Tape and Reel		Yageo Part No.
						10	100	500		Qty.	Pricing	
TC164	8	4	0.0, 10 ~ 1.0M	63	TC164J-(Value)CT-ND	.12	1.03	3.68	TC164J-(Value)TR-ND	5,000	4.00/M	TC164-JR-07(Code)L
YC122	4	2	0.0 ~ 1.0M	63	YC122J-(Value)CT-ND	.48	4.11	17.14	YC122J-(Value)TR-ND	10,000	24.00/M	YC122-JR-07(Code)L
YC124	8	4	0.0 ~ 1.0M	63	YC124J-(Value)CT-ND	.47	4.12	14.73	YC124J-(Value)TR-ND	10,000	16.00/M	YC124-JR-07(Code)L
YC164	8	4	0.0 ~ 1.0M	63	YC164J-(Value)CT-ND	.10	.90	3.23	YC164J-(Value)TR-ND	5,000	5.00/M	YC164-JR-07(Code)L
YC248	16	8	0.0, 10 ~ 1.0M	63	YC248J-(Value)CT-ND	1.01	8.64	36.00	YC248J-(Value)TR-ND	5,000	50.00/M	YC248-JR-07(Code)L
YC324	8	4	10 ~ 1.0M	125	YC324J-(Value)CT-ND	1.61	13.80	57.50	YC324J-(Value)TR-ND	4,000	81.00/M	YC324-JK-07(Code)L
YC358	10	8	56 ~ 100K	63	YC358T-(Value)CT-ND	2.03	17.39	72.45	YC358T-(Value)TR-ND	4,000	101.00/M	YC358TJK-07(Code)L

* For complete Digi-Key part number, substitute Digi-Key value from Resistance Value Chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Beyschlag

Professional, Precision and Precision Automotive ACAS Series Thin Film Chip Resistor Arrays

Digi-Reel® RoHS COMPLIANT

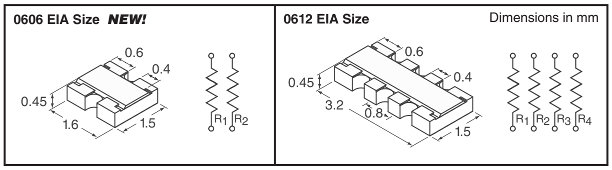

The ACAS 0606 and 0612 convex termination thin film chip resistor arrays combine the proven reliability of precision thin film with the advantages of chip resistor arrays. Defined tolerance matching and TCR tracking makes this product perfectly suited for applications with outstanding requirements towards stable fixed resistor ratios. A small package enables the design of high density circuits in combination with reduction of assembly costs.

Features: • Tested according AEC-Q200 • 155°C film temperature • 1000V ESD stability • Advanced thin film technology • Two pairs or four equal resistor values • Pure Sn termination on Ni barrier layer

Applications: • Precision analogue circuits • Voltage divider • Feedback circuits • Signal conditioning

PROFESSIONAL SERIES

Specifications: Absolute tolerance: ±0.5% • Absolute Temperature Coefficient: ±50 ppm/K • Operating Voltage: 75V

PRECISION SERIES

Specifications: • Absolute Tolerance: ±0.25% • Tolerance Matching: 0.1% • Absolute Temperature Coefficient: ±25 ppm/K • Temperature Co-efficient Tracking: 15 ppm/K • Operating Voltage: 75V

PRECISION AUTOMOTIVE SERIES

Specifications: • Absolute Tolerance: ±0.25% • Tolerance Matching: 0.1% • Absolute Temperature Coefficient: ±25 ppm/K • Temperature Coefficient Tracking: 15 ppm/K • Operating Voltage: 75V

Resistance Values

100/100	1.0K/1.0K	1.0K/5.0K	4.7K/4.7K	10K/20K	20K/20K	100K/100K
100/200	1.0K/2.0K	1.0K/10K	10K/10K	10K/30K	47K/47K	
100/300	1.0K/3.0K	2.0K/2.0K	10K/15K	10K/50K	50K/50K	

EIA Size	Configuration (Isolated)	Resistor Power Rating (mW @ 70°C) Element	Package	Resistance Value (Ω)	Digi-Key Part No.†	Cut Tape Price Each 1	10	50	100	Tape & Reel§ Pricing 1,000	Vishay Beyschlag Part No.
	Professional Resistors										
0612	4 x 0603	100	300	100/100, 100/200, 100/300, 1.0K/1.0K, 1.0K/2.0K, 1.0K/3.0K, 1.0K/5.0K, 1.0K/10K, 2.0K/2.0K, 4.7K/4.7K, 10K/10K, 10K/15K, 10K/20K, 10K/30K, 10K/50K, 20K/20K, 47K/47K, 50K/50K, 100K/100K	ACASA-(Value)-2CT-ND	.76	.63	.47	.38	218.00	ACASAxxxx2xxxxP100
	Precision Resistors										
0612	4 x 0603	100	300	100/100, 100/200, 100/300, 1.0K/1.0K, 1.0K/2.0K, 1.0K/3.0K, 1.0K/5.0K, 2.0K/2.0K, 4.7K/4.7K, 10K/10K, 10K/15K, 10K/20K, 10K/30K, 10K/50K, 20K/20K, 47K/47K, 50K/50K, 100K/100K	ACASA-(Value)-ECT-ND	3.00	2.47	1.85	1.46	858.00	ACASAxxxxExxxxP100
	Precision Automotive Resistors										
0606	2 x 0603	125	200	100/100, 100/200, 100/300, 1.0K/1.0K, 1.0K/2.0K, 1.0K/5.0K, 1.0K/10K, 2.0K/2.0K, 4.7K/4.7K, 10K/10K, 10K/15K, 10K/20K, 10K/30K, 10K/50K, 20K/20K, 47K/47K, 50K/50K, 100K/100K	ACASN-(Value)-EATCT-ND ***NEW!***	2.35	1.93	1.45	1.14	670.00	ACASNxxxxExxxxP1AT
				1.0K/3.0K	ACASN-1.0K/3.0K-EATCT-ND ***NEW!***	3.09	2.55	1.91	1.51	884.00	ACASN1001E3001P1AT
0612	4 x 0603	125	400	100/100, 100/200, 100/300, 1.0K/1.0K, 1.0K/2.0K, 1.0K/3.0K, 1.0K/5.0K, 1.0K/10K, 2.0K/2.0K, 4.7K/4.7K, 10K/10K, 10K/15K, 10K/20K, 10K/30K, 10K/50K, 20K/20K, 47K/47K, 50K/50K, 100K/100K	ACASA-(Value)-EATCT-ND	3.59	2.95	2.21	1.75	1026.00	ACASAxxxxExxxxP1AT

† For complete Digi-Key part number, substitute Digi-Key value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND.

VISHAY. Dale

Surface Mount Chip Resistor Arrays

Digi-Reel® RoHS COMPLIANT

The CRA thick film resistor arrays are constructed on a high grade ceramic body with concave or convex terminals. A small package enables the design of high density circuits. The single component reduces board space, component counts and assembly costs.

Features: • Squared corners (CRA12E083 scalloped corners) • 4 and 8 terminal packages with isolated resistors • Lead (Pb)-free solder contacts on Ni barrier layer

Specifications: • Limiting Element Voltage: 50V • Temperature Coefficient: ±200ppm/K • Tolerance: ±5% • Temperature Range: -55°C ~ 155°C • Insulation Resistance: >10⁹Ω

Dimensions in mm

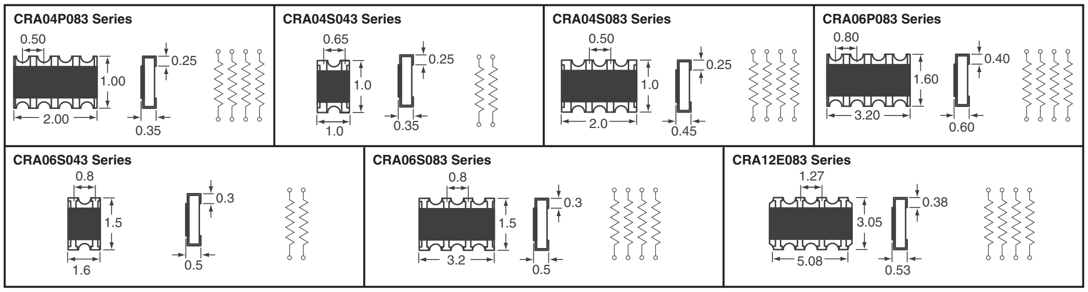

Resistance Values (Ω)
CRA04P083 Series

0.0	47	220	1.0K	8.2K	100K	1.0M
10	51	270	1.5K	10K	150K	
15	56	330	2.2K	15K	180K	
22	68	470	2.7K	22K	220K	
27	82	510	3.3K	33K	330K	
33	100	560	4.7K	47K	470K	
39	150	680	6.8K	68K	680K	

Resistance Values (Ω)
CRA04S043 Series

0.0	68	2.2K	33K
10	150	3.3K	47K
15	200	4.7K	150K
22	470	6.8K	220K
33	680	10K	330K
47	1.0K	15K	680K
56	1.5K	22K	1.0M

Resistance Values (Ω)
CRA04S083 Series

0.0	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K
10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K
11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M
12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	
13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	
15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	
16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	

Resistance Values (Ω)
CRA06P083 Series

0.0	15	27	47	68	120	220	390	560	1.0K	1.8K	3.3K	5.1K	8.2K	15K	33K	68K	150K	270K	680K
10	18	33	51	100	150	270	470	680	1.2K	2.2K	3.9K	5.6K	10K	22K	47K	100K	180K	330K	1.0M
12	22	39	56	110	180	330	510	820	1.5K	2.7K	4.7K	6.8K	12K	27K	51K	120K	220K	470K	

Resistance Values (Ω)
CRA06S043 Series

0.0	33	100	470	2.2K	20K	330K
10	47	220	1.0K	3.3K	30K	470K
15	68	330	1.5K	10K	150K	

Resistance Values (Ω)
CRA06S083 Series

0.0	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K
10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M
11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	
12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	
13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	
15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	

Resistance Values (Ω)
CRA12E083 Series

0.0	68	680	6.8K	68K	680K
10	100	1.0K	10K	100K	1.0M
15	150	1.5K	15K	150K	
22	220	2.2K	22K	220K	
33	330	3.3K	33K	330K	
47	470	4.7K	47K	470K	

Series	No. of Terminals	Terminal Type	No. of Resistors	Resistor Power Rating (mW@70°C)	Resistor Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	100	500	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Vishay Dale Part No.
CRA04P083	8	Concave	4	63	0.0 ~ 1.0M	CRA4P8(Value)CT-ND	.48	1.78	3.07	12.45	CRA4P8(Value)TR-ND	10,000	17.00/M	CRA04P083xxxxJTD
CRA04S043	4	Convex	2	63	0.0 ~ 1.0M	CRA4S4(Value)CT-ND	.36	1.35	2.33	9.45	CRA4S4(Value)TR-ND	10,000	13.00/M	CRA04S043xxxxJTD
CRA04S083	8	Convex	4	63	0.0 ~ 1.0M	CRA4S8(Value)CT-ND	.43	1.61	2.78	11.25	CRA4S8(Value)TR-ND	10,000	15.00/M	CRA04S083xxxxJTD
CRA06P083	8	Concave	4	63	0.0 ~ 1.0M	CRA6P8(Value)CT-ND	.48	1.78	3.07	12.45	CRA6P8(Value)TR-ND	5,000	17.00/M	CRA06P083xxxxJTA
CRA06S043	4	Convex	2	63	0.0 ~ 470K	CRA6S4(Value)CT-ND	.34	1.27	2.18	8.85	CRA6S4(Value)TR-ND	5,000	12.00/M	CRA06S043xxxxJTA
CRA06S083	8	Convex	4	63	0.0 ~ 1.0M	CRA6S8(Value)CT-ND	.23	.86	1.48	6.00	CRA6S8(Value)TR-ND	5,000	8.00/M	CRA06S083xxxxJTA
CRA12E083	8	Convex	4	100	0.0 ~ 1.0M	CRA12E8(Value)CT-ND	2.30	8.60	14.80	60.00	CRA12E8(Value)TR-ND	2,000	80.00/M	CRA12E083xxxxJTR

† For complete Digi-Key part number, substitute Digi-Key value from Resistance Value Chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Chip Resistor Arrays

Dim. in mm

MNR02 SERIES

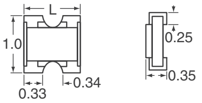

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR04 SERIES

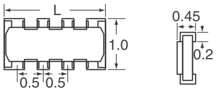

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR12 SERIES

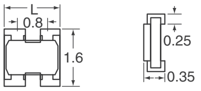

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR14 SERIES

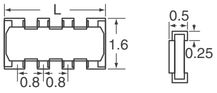

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR15 SERIES

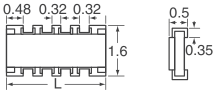

- Circuit Type: Bussed
- Max. Operating Voltage: 12.5V

MNR18 SERIES

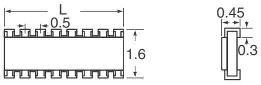

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR32 SERIES

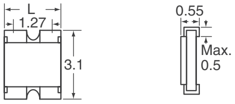

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR34 SERIES

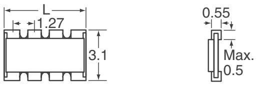

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR35 SERIES

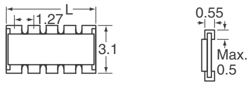

- Circuit Type: Bussed
- Max. Operating Voltage: 50V

Series MNR02, MNR12 and MNR32

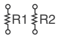

R1 = R2

Series MNR04, MNR14 and MNR34

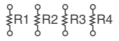

R1 = R2 = R3 = R4

Series MNR15

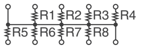

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR18

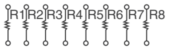

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR35

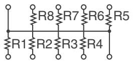

R1=R2=R3=R4=R5=R6=R7=R8

Resistance Values (Ω)
MNR02 Series

Value (Code)	Value (Code)
0.0 (000)◆	100 (101)◆
10 (100)◆	1.0K (102)◆
22 (220)◆	4.7K (472)◆
33 (330)◆	10K (103)◆
56 (560)◆	47K (473)◆

Resistance Values (Ω)
MNR04 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)◆	27 (270)◆	56 (560)◆	150 (151)◆	820 (821)◆	4.7K (472)◆	33K (333)◆
10 (100)◆	30 (300)◆	62 (620)◆	220 (221)◆	1.0K (102)◆	5.1K (512)◆	47K (473)◆
12 (120)◆	33 (330)◆	68 (680)◆	240 (241)◆	1.2K (122)◆	6.8K (682)◆	51K (513)◆
15 (150)◆	39 (390)◆	75 (750)◆	300 (301)◆	1.5K (152)◆	8.2K (822)◆	56K (563)◆
18 (180)◆	43 (430)◆	82 (820)◆	330 (331)◆	2.2K (222)◆	10K (103)◆	100K (104)◆
22 (220)◆	47 (470)◆	100 (101)◆	470 (471)◆	2.7K (272)◆	15K (153)◆	1.0M (105)◆
24 (240)◆	51 (510)◆	120 (121)◆	680 (681)◆	3.0K (302)◆	22K (223)◆	

Resistance Values (Ω)
MNR12 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	39 (390)	100 (101)	360 (361)	1.2K (122)	10K (103)	150K (154)
10 (100)	47 (470)	130 (131)	470 (471)	1.8K (182)	15K (153)	220K (224)
18 (180)	51 (510)	150 (151)	510 (511)	2.0K (202)	22K (223)	1.0M (105)
22 (220)	56 (560)	220 (221)	680 (681)	2.2K (222)	39K (393)	
27 (270)	68 (680)	270 (271)	820 (821)	2.4K (242)	47K (473)	
33 (330)	75 (750)	330 (331)	1.0K (102)	4.7K (472)	100K (104)	

Resistance Values (Ω)
MNR14 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)◆	36 (360)◆	220 (221)◆	1.3K (132)◆	8.2K (822)◆	51K (513)◆	360K (364)◆
2.2 (2R2)◆	39 (390)◆	240 (241)◆	1.5K (152)◆	9.1K (912)◆	56K (563)◆	390K (394)◆
3.0 (3R0)◆	43 (430)◆	270 (271)◆	1.6K (162)◆	10K (103)◆	62K (623)◆	430K (434)◆
3.3 (3R3)	47 (470)◆	300 (301)◆	1.8K (182)◆	11K (113)◆	68K (683)◆	470K (474)◆
4.7 (4R7)◆	51 (510)◆	330 (331)◆	2.0K (202)◆	12K (123)◆	75K (753)◆	510K (514)◆
6.8 (6R8)◆	56 (560)◆	360 (361)◆	2.2K (222)◆	13K (133)◆	82K (823)◆	560K (564)◆
10 (100)◆	62 (620)◆	390 (391)◆	2.4K (242)◆	15K (153)◆	91K (913)◆	620K (624)◆
11 (110)◆	68 (680)◆	430 (431)◆	2.7K (272)◆	16K (163)◆	100K (104)◆	680K (684)◆
12 (120)◆	75 (750)◆	470 (471)◆	3.0K (302)◆	18K (183)◆	110K (114)◆	750K (754)◆
13 (130)◆	82 (820)◆	510 (511)◆	3.3K (332)◆	20K (203)◆	120K (124)◆	820K (824)◆
15 (150)◆	91 (910)◆	560 (561)◆	3.6K (362)◆	22K (223)◆	130K (134)◆	910K (914)◆
16 (160)◆	100 (101)◆	620 (621)◆	3.9K (392)◆	24K (243)◆	150K (154)◆	1.0M (105)◆
18 (180)◆	110 (111)◆	680 (681)◆	4.3K (432)◆	27K (273)◆	160K (164)◆	
20 (200)◆	120 (121)◆	750 (751)◆	4.7K (472)◆	30K (303)◆	180K (184)◆	
22 (220)◆	130 (131)◆	820 (821)◆	5.1K (512)◆	33K (333)◆	200K (204)◆	
24 (240)◆	150 (151)◆	910 (911)◆	5.6K (562)◆	36K (363)◆	220K (224)◆	
27 (270)◆	160 (161)◆	1.0K (102)◆	6.2K (622)◆	39K (393)◆	240K (244)◆	
30 (300)◆	180 (181)◆	1.1K (112)◆	6.8K (682)◆	43K (433)◆	300K (304)◆	
33 (330)◆	200 (201)◆	1.2K (122)◆	7.5K (752)◆	47K (473)◆	330K (334)◆	

Resistance Values (Ω)
MNR15 Series Chip Arrays

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	560 (561)	1.8K (182)	4.7K (472)	18K (183)	68K (683)
100 (101)	390 (391)	680 (681)	2.0K (202)	5.1K (512)	20K (203)	100K (104)
150 (151)	430 (431)	1.0K (102)	2.2K (222)	5.6K (562)	22K (223)	
220 (221)	470 (471)	1.2K (122)	2.7K (272)	8.2K (822)	33K (333)	
300 (301)	510 (511)	1.5K (152)	3.3K (332)	10K (103)	47K (473)	

Resistance Values (Ω)
MNR18 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	30 (300)	56 (560)	200 (201)	1.0K (102)	5.1K (512)	47K (473)
12 (120)	33 (330)	62 (620)	220 (221)	1.2K (122)	6.8K (682)	51K (513)
15 (150)	36 (360)	68 (680)	240 (241)	1.5K (152)	8.2K (822)	56K (563)
18 (180)	39 (390)	75 (750)	300 (301)	2.0K (202)	10K (103)	100K (104)
20 (200)	43 (430)	82 (820)	330 (331)	2.2K (222)	15K (153)	1.0M (105)
22 (220)	47 (470)	100 (101)	470 (471)	2.7K (272)	20K (203)	
24 (240)	50 (500)	120 (121)	680 (681)	3.0K (302)	22K (223)	
27 (270)	51 (510)	150 (151)	820 (821)	4.7K (472)	33K (333)	

Resistance Values (Ω)
MNR32 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
39 (390)	270 (271)	1.3K (132)	4.7K (472)
100 (101)	470 (471)	1.8K (182)	10K (103)
180 (181)	1.0K (102)	3.9K (392)	47K (473)

Resistance Values (Ω)
MNR34 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	36 (360)	110 (111)	510 (511)	2.0K (202)	8.2K (822)	100K (104)
10 (100)	39 (390)	120 (121)	560 (561)	2.2K (222)	10K (103)	270K (274)
15 (150)	43 (430)	150 (151)	620 (621)	2.7K (272)	15K (153)	510K (514)
16 (160)	47 (470)	180 (181)	680 (681)	3.3K (332)	18K (183)	1.0M (105)
18 (180)	51 (510)	220 (221)	750 (751)	3.9K (392)	20K (203)	
22 (220)	56 (560)	270 (271)	820 (821)	4.7K (472)	22K (223)	
24 (240)	68 (680)	300 (301)	1.0K (102)	5.1K (512)	33K (333)	
27 (270)	82 (820)	330 (331)	1.2K (122)	5.6K (562)	39K (393)	
30 (300)	91 (910)	390 (391)	1.5K (152)	6.2K (622)	47K (473)	
33 (330)	100 (101)	470 (471)	1.8K (182)	6.8K (682)	68K (683)	

Resistance Values (Ω)
MNR35 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	680 (681)	2.0K (202)	5.6K (562)	22K (223)
100 (101)	430 (431)	1.0K (102)	2.2K (222)	8.2K (822)	33K (333)
150 (151)	470 (471)	1.2K (122)	2.7K (272)	10K (103)	47K (473)
220 (221)	510 (511)	1.5K (152)	3.3K (332)	18K (183)	68K (683)
300 (301)	560 (561)	1.8K (182)	4.7K (472)	20K (203)	100K (104)

Series	Number of Terminals	Number of Resistors	Dimension L (mm)	Resistor Power Rating‡ (mW@70°C)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel Pricing		
						10	100	1,000		4,000	5,000	10,000
MNR02	4	2	1.0	63	MNR02(Code)CT-ND	.46	3.63	31.02	MNR02(Code)TR-ND	—	—	16.00/M
MNR02	4	2	1.0	63	MNR02(Code)RCT-ND◆	.38	3.00	25.62	MNR02(Code)RTR-ND◆	—	—	12.00/M
MNR04	8	4	2.0	63	MNR04(Code)CT-ND	.50	3.95	33.72	MNR04(Code)TR-ND	—	—	18.00/M
MNR04	8	4	2.0	63	MNR04(Code)RCT-ND◆	.33	2.59	22.11	MNR04(Code)RTR-ND◆	—	—	9.00/M
MNR12	4	2	1.6	63	MNR12(Code)CT-ND	.36	2.84	24.28	MNR12(Code)TR-ND	—	13.00/M	11.00/M
MNR14	8	4	3.2	63	MNR14(Code)CT-ND	.34	2.68	22.91	MNR14(Code)TR-ND	—	12.00/M	10.00/M
MNR14	8	4	3.2	63	MNR14(Code)RCT-ND◆	.33	2.62	22.37	MNR14(Code)RTR-ND◆	—	11.00/M	10.00/M
MNR15	10	8	3.2	31	MNR15(Code)CT-ND	1.51	11.85	101.29	MNR15(Code)TR-ND	—	78.00/M	68.00/M
MNR18	16	8	3.8	63	MNR18(Code)CT-ND	.95	7.43	63.45	MNR18(Code)TR-ND	—	46.00/M	40.00/M
MNR32	4	2	2.6	125	MNR32(Code)CT-ND	1.55	12.17	103.99	MNR32(Code)TR-ND	81.00/M	—	—
MNR34	8	4	5.2	125	MNR34(Code)CT-ND	1.51	11.85	101.29	MNR34(Code)TR-ND	78.00/M	—	—
MNR35	10	8	6.4	63	MNR35(Code)CT-ND	3.36	26.40	225.60	MNR35(Code)TR-ND	184.00/M	—	—

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant ‡ Note: Total Rated Package Power equals total number of resistors times rated Power per Resistor.

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

VFCD1505 Bulk Metal Z-Foil® SMT Flip Chip Voltage Divider

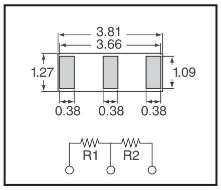

Bulk Metal® Z-Foil (BMZF) technology out-performs all other resistor technologies available today for applications that require ultra high precision and ultra high stability. The new Z-Foil technology provides a significant reduction of the resistive element's sensitivity to changes of temperature due to ambient temperature variations (TCR) and to self heating when power is applied (power coefficient). Model VFCD1505 offers low TCR (both absolute and tracking), excellent load life stability, tight tolerance, excellent ratio stability, low thermal EMF and low current noise, all in one package. An absolute TCR of 0.05ppm/ °C removes errors due to temperature gradients. The VFCD1505 surface mount divider provides tight tolerance matching and TCR tracking between two resistors simultaneously etched on one piece of foil on a common substrate. The electrical specifications of this integrated construction offer improved performances and better real estate utilization over discrete resistors and matched pairs.

Features: • Non inductive, non capacitive design • Non hot spot design **Specifications:** • Absolute TCR: ±0.05ppm/°C (typical 0°C ~ 60°C); ±0.2ppm/°C (typical -55°C ~ 125°C, 25°C ref.); Tracking: 0.1ppm/°C typical • Power Coefficient Tracking (ΔR due to self heating): 5ppm at rated power • Short Time Overload: ±0.005% (50ppm) • Load Life Stability (0.1W @ 70°C, 2000h): Absolute: 0.01%; Ratio: 0.005% • Electrostatic Discharge (ESD): up to 25,000V • Power Rating @ 70°C: entire package: 0.1W, divided between the two resistors proportionally to their value • Maximum Working Voltage: 22V • Thermal EMF: 0.05µV/°C typical • Current Noise: < -40dB • Rise Time: 1ns without ringing • Non inductive: < 0.08µH • Voltage Coefficient: < 0.1ppm/ V • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value) **Applications:** • Instrumentation amplifiers • Bridge networks • Differential amplifiers • Ratio arms in bridge circuits • Medical and test equipment • Military • Airborne

Series	Resistance Value (Ω)	Tolerance Absolute/Matching (%)	Power Rating @ 70°C (W)	Absolute TCR (ppm/°C)		TCR Tracking (ppm/°C)		Digi-Key Part No.	Price Each			Vishay Precision Group Part No.
				Typ.	Max.	Typ.	Max.		1	25	100	
VCFD1505	10K/10K	0.01	0.1	±0.2	±1	0.1	0.5	Y1685-10K/10K-ND	20.74	17.78	16.30	Y1685V0001TT9W
	5K/10K	0.01	0.1	±0.2	±1	0.4	1.0	Y1685-5K/10K-ND	20.74	17.78	16.30	Y1685V0005TT9W

SMN High Precision Bulk Metal Foil® Dual-In-Line 4 Resistors SMT Resistor Network

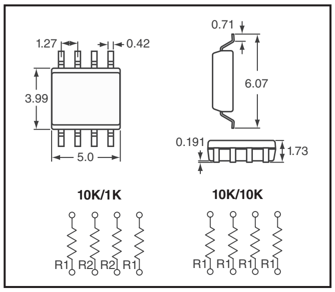

Bulk Metal® Z-Foil (BMZF) technology out-performs all other resistor technologies available today for applications that require high precision and high stability.
Model SMN offers low TCR (absolute and tracking), excellent load life stability, tight tolerance (absolute and match), excellent ratio stability, low thermal EMF, low current noise and low voltage coefficient, all in the same resistor. The SMN surface mount network is made up of four independent BMF resistors in a small standard molded epoxy package with 50MIL lead pitch (JEDEC MS-012 package). The electrical specification of this integrated construction offers improved performance and better real estate utilization over discrete resistors and matched sets. The resistor may be used independently or as divider pairs.
Features: • Non inductive, non capacitive design • Non hot spot design

Specifications: • TCR (-55°C ~ 125°C, 25°C Ref.): Absolute: ±2ppm/°C typical; Tracking: 0.5ppm/°C typical • Power Rating at 70°C: Entire Package: 0.4W; Each Resistor: 0.1W • Resistance Tolerance Match: 0.01% • Ratio Stability: 0.005% (0.1W @ 70°C, 2000h) • Electrostatic Discharge (ESD): up to 25,000V • Short Time Overload: ≤ 0.0025% • Rise Time: 1ns without ringing • Current Noise: < -40dB • Thermal EMF: 0.05µV/°C • Voltage Coefficient: < 0.1 ppm/V • Non Inductive: < 0.08µH • Terminal Finishes Available: Lead (Pb)- free; Tin/Lead alloy • Thermal Stabilization Time: < 1s (nominal value achieved within 10ppm of steady state value) **Applications:** • Instrumentation amplifiers • Bridge networks • Differential amplifiers • Ratio arms in bridge circuits • Medical and test equipment • Military • Airborne

Series	Resistance Value (Ω)	Tolerance (%)		Power Rating @ 70°C (W)		Digi-Key Part No.	Price Each			Vishay Precision Group Part No.
		Absolute	Matching	Resistor	Pkg.		1	25	100	
SMN	10K/1K	0.02	0.01	0.1	0.4	Y1365-10K/1K-ND	33.58	28.79	26.39	Y1365V0205QT9U
	10K/10K	0.02	0.01	0.1	0.4	Y1365-10K/10K-ND	31.38	26.90	24.66	Y1365V0008QT9U

Thin Film

Molded QSOP Dual-In-Line SMT Resistor Network (25 Mil Pitch) – VSSR Series

VSSR resistor networks are designed to be used in either analog or digital circuits. The use of thin film resistive elements within the network allows you to achieve an infinite number of very low noise and high stability circuits for industrial, medical and scientific instrumentation. The rugged packaging offers superior environmental protection and consistent dimensions for ease of placement with automatic SMT equipment. **Features:** • Reduces total assembly costs • Compatible with automatic surface mounting equipment • UL 94V-0 flame resistant **Specifications:** • Thin film tantalum nitride on silicon • Moisture sensitivity level 1 (per IPC/JEDEC STD-20C) • Resistive Element: Tantalum Nitride • Body: Molded epoxy

Bussed with one pin common: The 01 circuit provides nominally equal resistors connected between a common pin and a discrete PC board pin. Applications: • MOS/ROM pull-up/pull-down • Open collector pull-up • "Wired OR" pull-up • Power driven pull-up • TTL input pull-down • Digital pulse squaring • TTL unused gate pull-up • High speed parallels pull-up

Isolated: The 03 circuit provides nominally equal resistors isolated from all others and wired directly across. **Applications:** • "Wired OR" pull-up • Power driven pull-up • Powergate pull-up • Line termination • Long-line impedance balancing • LED current limiting • ECL output pull-down • TTL input pull-down

VSSR16 Series Standard Resistor Values (Ω)

10	100	680	8.2K
22	180	1.0K	10K
33	220	2.0K	20K
47	330	2.2K	47K
51	470	2.7K	
68	510	4.7K	

VSSR20 Series Standard Resistor Values (Ω)

100	10K
1.0K	47K

VSSR24 Series Standard Resistor Values (Ω)

10	4.7K	5.1K
1.0K	5.0K	10K

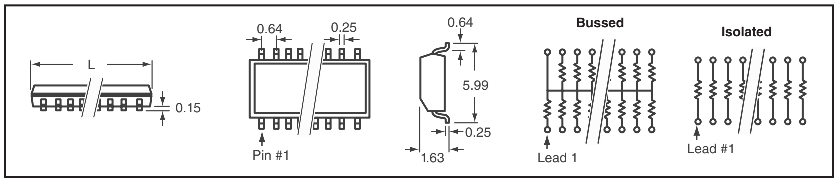

Voltage Coefficient	Working Voltage	Operating Temperature Range	Noise	TCR Absolute
5ppm/V (typical)	50VDC	-55°C ~ 125°C	< -35dB	±100ppm/°C

Value Range (Ω)	Tolerance Absolute	Power Rating Maximum @ 70°C		Dimension L mm	Digi-Key Part No.†	Price Each			Vishay Thin Film Part No.
		Resistor‡	Package			1	25	100	
VSSR16 Series Bussed — 16 Pins, 15 Resistors									
100	±2.0%	100mW	1.0W	4.90	VSSR16-100-GB-ND	2.66	2.02	1.60	VSSR1601101GUF
1.0K ~ 2.2K, 4.7K, 10K	±2.0%	100mW	1.0W	4.90	VSSR16-(Value)-GB-ND	2.31	1.75	1.39	VSSR1601xxxGUF
330, 470, 680 ~ 47K	±5.0%	100mW	1.0W	4.90	VSSR16-(Value)-JB-ND	1.89	1.44	1.14	VSSR1601xxxJUF
VSSR16 Series Isolated — 16 Pins, 8 Resistors									
10, 33, 51	±2.0%	100mW	1.0W	4.90	VSSR16-(Value)-GI-ND	2.66	2.02	1.60	VSSR1603xxxGUF
510	±2.0%	100mW	1.0W	4.90	VSSR16-510-GI-ND	3.33	2.80	2.21	VSSR1603511GUF
22 ~ 100	±5.0%	100mW	1.0W	4.90	VSSR16-(Value)-JI-ND	2.66	2.02	1.60	VSSR1603xxxJUF
180 ~ 220	±5.0%	100mW	1.0W	4.90	VSSR16-(Value)-JI-ND	2.35	1.78	1.41	VSSR1603xxxJUF
330 ~ 470, 1.0K, 2.2K, 4.7K, 10K	±5.0%	100mW	1.0W	4.90	VSSR16-(Value)-JI-ND	1.89	1.44	1.14	VSSR1603xxxJUF
VSSR20 Series Bussed — 20 Pins, 19 Resistors									
1.0K, 1.5K, 10K	±2.0%	100mW	1.2W	8.66	VSSR20-(Value)-GB-ND	2.66	2.02	1.60	VSSR2001xxxGUF
1.0K, 2.0K ~ 10K	±5.0%	100mW	1.2W	8.66	VSSR20-(Value)-JB-ND	2.24	1.70	1.35	VSSR2001xxxJUF
VSSR20 Series Isolated — 20 Pins, 10 Resistors									
100	±5.0%	100mW	1.2W	8.66	VSSR20-100-JI-ND	3.01	2.28	1.81	VSSR2003101JUF
VSSR24 Series Bussed — 24 Pins, 23 Resistors									
5.0K ~ 5.1K, 10K	±2.0%	100mW	1.4W	8.66	VSSR24-(Value)-GB-ND	2.66	2.02	1.60	VSSR2401xxxGUF
1.0K ~ 4.7K, 10K	±5.0%	100mW	1.4W	8.66	VSSR24-(Value)-JB-ND	2.24	1.70	1.35	VSSR2401xxxJUF
VSSR24 Series Isolated — 24 Pins, 12 Resistors									
10 ~ 100	±5.0%	100mW	1.4W	8.66	VSSR24-(Value)-JI-ND	3.01	2.28	1.81	VSSR2403xxxJUF
4.7K ~ 10K	±5.0%	100mW	1.4W	8.66	VSSR24-(Value)-JI-ND	2.24	1.70	1.35	VSSR2403xxxJUF

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

VISHAY Thin Film

Molded SOT-23 SMT Resistor Divider Network

MPM Series Dividers

Vishay Thin Film MPM Series Dividers provide ±2ppm/°C tracking and a ratio tolerance of 0.05%, small size, and exceptional stability for all surface mount applications. The standard SOT-23 package format with unity and common standard resistance divider ratios provides easy selection for more applications requiring matched pair resistor elements.

Mechanical Specifications:
• Resistive Element: Passivated Nichrome • Substrate Material: Silicon • Body: Molded epoxy

MPM Series	Dimensions – mm Minimum	Maximum
A	0.79	1.02
A1	0.02	0.10
B	2.67	3.05
S	1.80	2.00
W	0.38	0.54
L	2.10	2.50
H	1.20	1.40
T	0.13	0.25
J	0.089	0.15
K	0.44	0.55
ø	0	8°

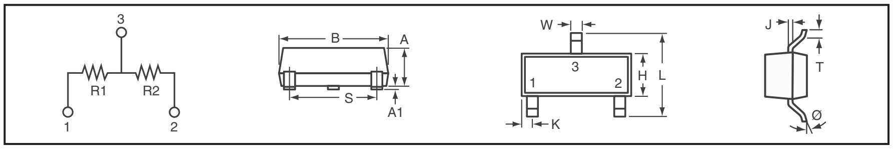

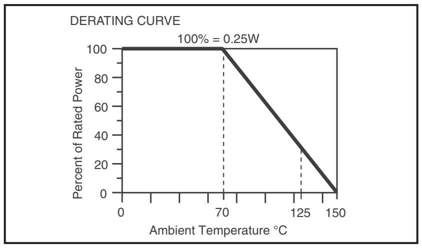

Standard Resistor Divider Network Values (Ω) – R1/R2

R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio
250/250	1:1	4K/4K	1:1	50K/50K	1:1	2K/8K	1:4	1K/10K	1:10
500/500	1:1	5K/5K	1:1	100K/100K	1:1	1K/5K	1:5	1K/20K	1:20
1K/1K	1:1	10K/10K	1:1	1K/2K	1:2	2K/10K	1:5	1K/25K	1:25
2K/2K	1:1	20K/20K	1:1	5K/10K	1:2	1K/6K	1:6	1K/50K	1:50
2.5K/2.5K	1:1	25K/25K	1:1	1K/4K	1:4	1K/9K	1:9	1K/100K	1:100

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
0.1ppm/V	100V	-55°C ~ 125°C	< -30dB	0.2μV/°C

Value Range (Ω)	TCR Tracking	TCR Abs.	Tolerance Ratio	Tolerance Abs.	Power Rating Max. @ 70°C Resistor‡	Power Rating Max. @ 70°C Pkg.	Stability 2,000H @ 70°C ΔR Abs.	Stability 2,000H @ 70°C ΔR Ratio	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Digi-Key Part No.†	Tape & Reel Pricing 1,000	Vishay Thin Film Part No.
250/250 ~ 100K/100K	±2ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	200mW	0.10%	0.03%	MPMT-(R1 Value/R2 Value)CT-ND	5.15	4.10	3.83	MPMT-(R1 Value/R2 Value)TR-ND	1683.00	MPMTxxxxAT1
1K/2K ~ 1K/10K	±2ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	200mW	0.10%	0.03%	MPMT-(R1 Value/R2 Value)CT-ND	5.69	4.53	4.24	MPMT-(R1 Value/R2 Value)TR-ND	1862.00	MPMTxxxxxxxxAT1
1K/20K ~ 1K/100K	±2ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	200mW	0.10%	0.03%	MPMT-(R1 Value/R2 Value)CT-ND	4.82	4.17	3.51	MPMT-(R1 Value/R2 Value)TR-ND	1825.00	MPMTxxxxxxxxAT1

† For complete part number, substitute the value from Standard Resistor Divider Network Values chart for (R_1 Value/R_2 Value). ‡ Per element typical

Molded Dual-In-Line SMT Resistor Network (25 Mil Pitch)

OSOP Series

Dimensions in mm

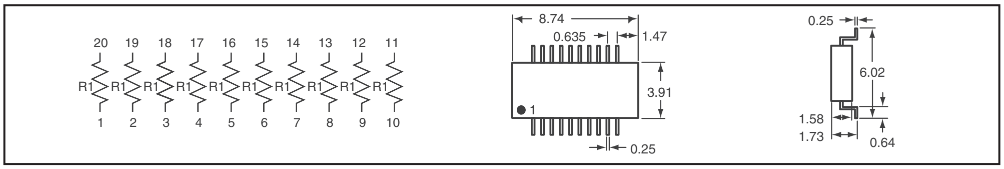

OSOP Series resistor networks feature a space-saving 25 Mil lead pitch versus the current 50 Mil pitch standard. This allows users to reduce board space more than 50% over current standards. The OSOP Series features 10 isolated resistors in a 20 lead style.

Features: • 0.068" (1.73mm) maximum seated height • Rugged molded case construction with no internal solder • Thin film element • JEDEC MO #137 Package AD

Mechanical Specifications: • Resistive Element: Passivated Nichrome • Substrate Material: Silicon • Body: Molded epoxy

OSOP Series — Standard Resistor Values (Ω)

500	2K	10K	100K
1K	5K	50K	

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
< 0.1ppm/V (typical)	100V	-55°C ~ 125°C	< -30dB	0.08μV/°

Value Range (Ω)	TCR Tracking	TCR Abs.	Tolerance Ratio	Tolerance Abs.	Power Rating Maximum @ 70°C Resistor‡	Power Rating Maximum @ 70°C Pkg.	Stability 2,000H @ 70°C ΔR Abs.	Stability 2,000H @ 70°C ΔR Ratio	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Thin Film Part No.
500	±5ppm/°C	±25ppm/°C	±0.1%	±0.1%	100mW	400mW	500ppm	150ppm	OSOPT-500BCT-ND	5.78	4.79	4.54	—	—	OSOPTAxxxxAT1
1K ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	OSOPT-(Value)ACT-ND	6.13	5.08	4.81	OSOPT-(Value)ATR-ND	2188.00	OSOPTAxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for (Value). ‡ Per element typical

NEW! Dual Flat No Lead Molded Surface Mount Precision Thin Film Resistor Networks and Divider Networks

Dimensions in mm

The DFN series of precision surface mount resistor networks feature isolated thin film precision resistors mounted in a 0.8mm pitch 4mm x 4mm dual flat no lead package. The networks feature 50% savings in board space over traditional SOIC packages. They are ideally suited for applications of unity gain operational amplifiers that require close TC tracking and tight ratio tolerances over temperature.

Features: • 0.8mm lead pitch • MSL level 1 per J-STD-020 • Low profile 1mm seated height • Small size 4mm x 4mm size 50% board savings over SOIC packages • Low TCR, TC tracking **Mechanical Specifications:** • Material: Passivated Nichrome • Tolerance: Absolute: ±0.1%, Ratio: ±0.05%, both at 25°C • Stability: ΔR Absolute: 500 ppm, ΔR Ratio: 150 ppm, both 2,000 h at 70°C • Voltage Coefficient: < 0.1 ppm/V • Working Voltage: 50V • Operating Temperature Range: -55°C ~ 125°C • Noise: < -30dB • Thermal EMF: < 0.08 μV/°C

Fig. 1

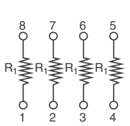

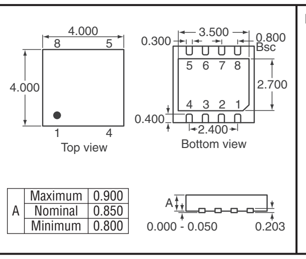

Fig. 2

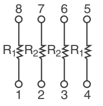

Resistor Values (Ω) — Network

500	4.99K	20K
1.0K	5.0K	50K
2.0K	10K	100K

Resistor Values (Ω) — Divider

10K/1K	20K/1K	100K/1K
10K/2K	25K/1K	
10K/5K	50K/1K	

Fig.	TCR (-55°C ~ 125°C) Tracking	TCR (-55°C ~ 125°C) Absolute	Power Rating (Maximum @ 70°C) Resistor	Power Rating (Maximum @ 70°C) Package	Digi-Key Part No.†	Cut Tape Price Each 1	25	100	Digi-Key Part No.†	Tape and Reel Pricing 500	Vishay Thin Film Part No.
1	Network: 3ppm/°C	±25ppm/°C	50mW	200mW	DFNA-(Value)ACT-ND	5.66	4.50	4.21	DFNA-(Value)ATR-ND	1015.00	DFNAxxxxAT5
2	Divider: 5ppm/°C	±25ppm/°C	50mW	50mW x number of resistors	DFNA-(Value)CT-ND	6.48	5.37	5.09	DFNA-(Value)TR-ND	1248.75	DFNAxxx-1T5
	Divider: 5ppm/°C	±25ppm/°C	50mW	50mW x number of resistors	DFNA-25K/1KCT-ND	6.90	5.72	5.42	DFNA-25K/1KTR-ND	1329.75	DFNAxxxx-1T5
	Divider: 5ppm/°C	±25ppm/°C	50mW	50mW x number of resistors	DFNA-50K/1KCT-ND	7.07	5.86	5.56	DFNA-50K/1KTR-ND	1363.50	DFNAxxxx-1T5
	Divider: 5ppm/°C	±25ppm/°C	50mW	50mW x number of resistors	DFNA-100K/1KCT-ND	7.35	6.09	5.78	DFNA-100K/1KTR-ND	1417.50	DFNAxxxx-1T5

† For complete part number, substitute the value from Resistor Values chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Molded Narrow Body Dual-In-Line SMT Resistor Networks (50 Mil Pitch)

NOMC Series

The NOMC Series features a standard 16-pin narrow body (0.150"), small outline surface mount style. It can accommodate resistor networks to your particular application requirements. The networks can be constructed with Passivated Nichrome or Tantalum Nitride resistor films to optimize performance.

Features:
• Standard 16-pin (0.150" Narrow Body) JEDEC MS-012 • Rugged molded case construction • Stable thin film element (500ppm @ 70°C at 2,000H) • Low temperature coefficient (±25ppm/°C)

Mechanical Specifications:
• Resistive Element: Passivated Nichrome or Tantalum Nitride • Substrate Material: Silicon • Body: Molded epoxy

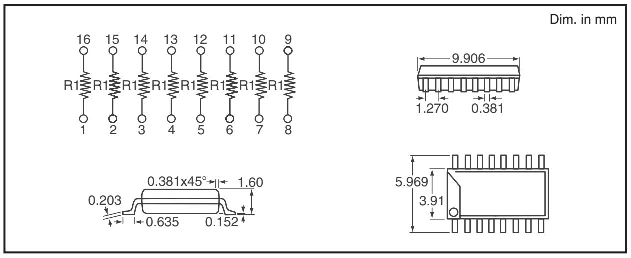

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
<0.1ppm/V	50V	-55°C ~ 125°C	< -30dB	0.08μV/°C

NOMC Series Standard Resistor Values (Ω)

1K	5K	20K
2K	10K	100K

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Thin Film Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor‡	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
1K ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	50mW	500mW	500ppm	150ppm	NOMCT16-(Value)ACT-ND	5.60	4.64	4.40	NOMCT16-(Value)ATR-ND	2000.00	NOMCTxxxxxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

Molded Dual-In-Line SMT Resistor Networks (50 Mil Pitch)

ORN Series

ORN Series resistor networks feature four isolated resistors with standard 50 mil pitch lead spacing. The networks feature close TCR tracking and tight ratio tolerance and are ideally suited for unity gain operational amplifier circuitry.

Features:
- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder
- Thin film passivity Microbe element
- Low temperature coefficient (±25ppm/°C)
- JEDEC MS-012 STD Package

Mechanical Specifications:
- Resistive Element: Passivated Nichrome
- Body: Molded epoxy

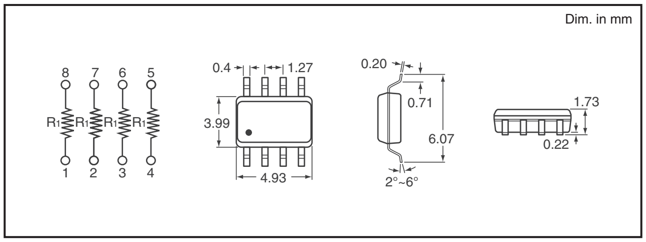

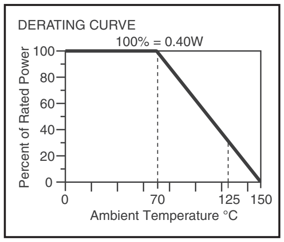

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
0.1ppm/V typical	50V	-55°C ~ 125°C	< -30dB	0.08μV/°C

ORN Series Standard Resistor Values (Ω)

500	4.99K	20K
1K	5K	50K
2K	10K	100K

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Thin Film Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor‡	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
500 ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	ORNT-(Value)ACT-ND	5.38	4.28	4.01	ORNT-(Value)ATR-ND	1760.00	ORNTAxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

Molded Dual-In-Line SMT Resistor Divider Networks (50 Mil Pitch)

ORN Series Dividers

Vishay Thin Film ORN Series Dividers provide optimum ratio precision, small size and exceptional stability for most applications. The tight ratio tolerance offered on the standard ratios will provide exceptional performance throughout life.

Features:
- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder (JEDEC MS-012 standard)
- Thin film passivity Microbe element
- Low temperature coefficient (±25ppm/°C)

Mechanical Specifications:
- Resistive Element: Passivated Nichrome
- Body: Molded epoxy

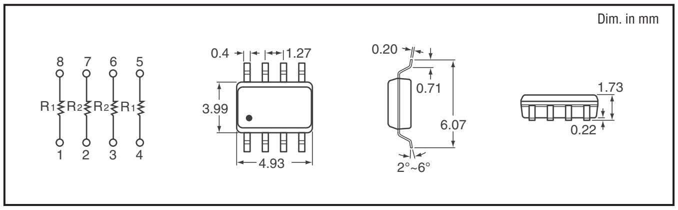

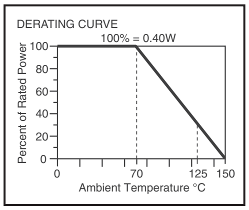

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
< 0.1ppm/V	50V	-55°C ~ 125°C	< -30dB	0.08μV/°C

ORN Series Standard Resistor Divider Network Values (Ω) – R_1/R_2

R_1/R_2	Ratio	R_1/R_2	Ratio
10K/5K	2:1	25K/1K	25:1
10K/2K	5:1	50K/1K	50:1
10K/1K	10:1	100K/1K	100:1
20K/1K	20:1		

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Thin Film Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor‡	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
10K/5K ~ 20K/1K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	ORNT-(R1 Value/R2 Value)CT-ND†	6.16	5.11	4.84	ORNT-(R1 Value/R2 Value)TR-ND†	2200.00	ORNTAxx-1T1
25K/1K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	ORNT-25K/1KCT-ND	6.58	5.46	5.17	—	—	ORNTA25-1T1
50K/1K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	ORNT-50K/1KCT-ND	6.72	5.57	5.28	—	—	ORNTA50-1T1
100K/1K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW	400mW	500ppm	150ppm	ORNT-100K/1KCT-ND	7.00	5.80	5.50	ORNT-100K/1KTR-ND	2500.00	ORNTA100-1T1

† For complete part number, substitute the value from Standard Resistor Divider Network Values chart for **(R_1 Value/R_2 Value)**. ‡ Per element typical

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS®

Digi-Reel®

Thick Film Chip Resistor Arrays

Features: • Low Cost • Thick Film Technology • High Density Packaging • Leadless Surface Mount construction • Tape and Reel Packaging • Solder coated Nickel Barrier Pads • Isolated and Bussed Circuits • Concave and Convex Terminations

Product Benefits: High Density Packaging: • Up to 30% less space per resistor than 0603 chip resistors • Up to 75% less space per resistor than 0805 chip resistors **Placement Efficiency:** • Networks require fewer placements than discrete components • Larger overall size eases handling compared to discrete components **Low Profile:** • Can be used in PCMCIA cards

Environmental Performance Specifications

Test	Maximum Delta R 740X	741	742~746	Test Description
Thermal Cycle	1.0%	1.0%	1.0%	5 Cycles -55°C ~ 125°C
Short Time Overload	2.0%	2.5%	1.0%	2 1/2 x Rated working voltage. 5 seconds (or maximum voltage)
Moisture Resistance	2.0%	5.0%	2.0%	240 hours .1 rated load, -10°C ~ 65°C, 90%RH
High Temperature Exposure	3.0%	1.0%	1.0%	1000 hours. no load @ 125°C
Load Life	3.0%	5.0%	2.0%	1000 hours @ 70°C, rated load
Resistance to Solder Heat	1.0%	2.5%	1.0%	10 seconds @ 260°C solder
Resistance to Solvents	—	—	—	Isopropyl alcohol, Freon TMC
Solderability	—	—	—	RMA flux, 230°C, 5 seconds dip, 95% coverage

740X SERIES

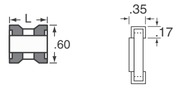

741C SERIES

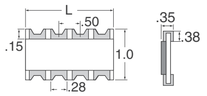

741X SERIES

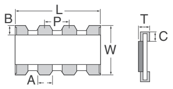

Series	Dimensions - mm W	P	T	A	B	C
741X043	1.0	.65	.35	.33	.20	.38
741X083	1.0	.50	.35	.30	.20	.38
741X163	1.6	.50	.45	.30	.30	.30

742 SERIES

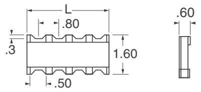

743 SERIES

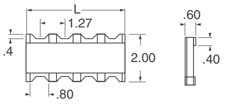

744 SERIES

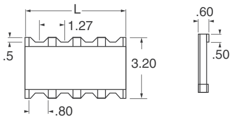

745 SERIES

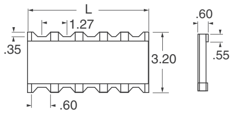

746 SERIES

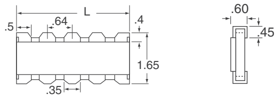

Series 741X and 742

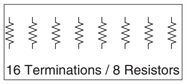

16 Terminations / 8 Resistors

Series 740X, 741C, 741X, 742, 743 and 744

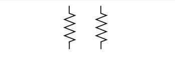

4 Terminations / 2 Resistors

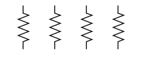

8 Terminations / 4 Resistors

Series 745 and 746

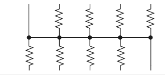

10 Terminations / 8 Resistors

Resistance Values
740X Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)
4.7K (472)	10K (103)

Resistance Values
741X043, 741X083, 741X163 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	33 (330)	100 (101)	4.7K (472)	47K (473)
22 (220)	56 (560)	1K (102)	10K (103)	

Resistance Values
741C083 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	82 (820)	680 (681)	8.2K (822)	180K (184)
12 (120)	100 (101)	1K (102)	10K (103)	220K (224)
15 (150)	120 (121)	1.5K (152)	15K (153)	270K (274)
18 (180)	150 (151)	1.8K (182)	18K (183)	330K (334)
22 (220)	220 (221)	2.2K (222)	22K (223)	470K (474)
27 (270)	270 (271)	2.7K (272)	27K (273)	510K (514)
33 (330)	330 (331)	3.3K (332)	33K (333)	1M (105)
39 (390)	390 (391)	3.9K (392)	47K (473)	
47 (470)	470 (471)	4.7K (472)	56K (563)	
51 (510)	510 (511)	5.1K (512)	68K (683)	
56 (560)	560 (561)	5.6K (562)	100K (104)	

Resistance Values
742C043, 742C163, 743C043, 744C043 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2.2K (222)	22K (223)	220K (224)
33 (330)	330 (331)	3.3K (332)	33K (333)	330K (334)
47 (470)	470 (471)	4.7K (472)	47K (473)	470K (474)
100 (101)	1K (102)	10K (103)	100K (104)	1MEG (105)

Resistance Values
742C083, 743C083, 744C083 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	150 (151)	2.7K (272)	39K (393)	510K (514)
12 (120)	180 (181)	3.3K (332)	47K (473)	560K (564)
15 (150)	220 (221)	3.9K (392)	51K (513)	680K (684)
18 (180)	270 (271)	4.7K (472)	56K (563)	820K (824)
22 (220)	390 (391)	5.1K (512)	68K (683)	1MEG (105)
27 (270)	470 (471)	5.6K (562)	82K (823)	
33 (330)	510 (511)	6.8K (682)	100K (104)	
39 (390)	560 (561)	8.2K (822)	120K (124)	
47 (470)	680 (681)	10K (103)	150K (154)	
51 (510)	820 (821)	12K (123)	180K (184)	
56 (560)	1K (102)	15K (153)	220K (224)	
68 (680)	1.2K (122)	18K (183)	270K (274)	
82 (820)	1.5K (152)	22K (223)	330K (334)	
110 (111)	1.8K (182)	27K (273)	390K (394)	
120 (121)	2.2K (222)	33K (333)	470K (474)	

Resistance Values
745 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	680 (681)	4.7K (472)	68K (683)
150 (151)	1K (102)	6.8K (682)	100K (104)
220 (221)	1.5K (152)	10K (103)	220K (224)
330 (331)	2.2K (222)	15K (153)	330K (334)
470 (471)	3.3K (332)	33K (333)	470K (474)

Resistance Values
746 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	1K (102)	3.3K (332)	22K (223)
220 (221)	1.5K (152)	4.7K (472)	47K (473)
330 (331)	2.2K (222)	10K (103)	
470 (471)	2.7K (272)	15K (153)	

Series	No. of Terminals	No. of Res.	Dimension "L" (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key Part No.★	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.★	Tape and Reel Pricing 4,000	5,000	10,000
740	4	2	0.85	3	740X043(Code)JPCT-ND◆	.84	6.60	56.40	740X043(Code)JPTR-ND◆	—	—	42.00/M
741	4	2	1.0	63	741X043(Code)JCT-ND▲	.14	1.10	9.40	741X043(Code)JTR-ND§	—	—	7.00/M
	8	4	2.0	63	741X083(Code)JCT-ND▲	.14	1.10	9.40	741X083(Code)JTR-ND§	—	—	7.00/M
	8	4	2.0	63	741C083(Code)JCT-ND▲	.21	1.65	14.10	741C083(Code)JTR-ND§	—	—	11.00/M
	16	8	3.80	63	741X163(Code)JCT-ND▲	1.58	12.38	105.75	741X163(Code)JTR-ND§	—	81.00/M	77.00/M
742	4	2	1.60	63	742C043(Code)JCT-ND▲	.18	1.38	11.75	742C043(Code)JTR-ND§	—	10.00/M	9.00/M
	8	4	3.20	63	742C083(Code)JCT-ND▲	.14	1.10	9.40	742C083(Code)JTR-ND§	—	8.00/M	7.00/M
	16	8	6.40	63	742C163(Code)JCT-ND▲	1.54	12.10	103.40	742C163(Code)JTR-ND§	88.00/M	—	—
743	4	2	2.54	100	743C043(Code)JCT-ND▲	1.02	7.83	68.15	743C043(Code)JTR-ND§	58.00/M	—	—
	8	4	5.08	100	743C083(Code)JCT-ND▲	1.30	9.99	86.95	743C083(Code)JTR-ND§	74.00/M	—	—
744	4	2	2.54	125	744C043(Code)JCT-ND▲	1.02	7.83	68.15	744C043(Code)JTR-ND§	58.00/M	—	—
	8	4	5.08	125	744C083(Code)JCT-ND▲	1.30	9.99	86.95	744C083(Code)JTR-ND§	74.00/M	—	—
745	10	8	6.40	63	745C101(Code)JCT-ND▲	2.10	16.50	141.00	745C101(Code)JTR-ND§	90.00/M	—	—
746	10	8	3.30	31	746X101(Code)JCT-ND▲	1.12	8.80	75.20	746X101(Code)JTR-ND§	—	58.00/M	54.00/M

▲ For ***RoHS Compliant*** Part Number, change CT-ND to PCT-ND. § For ***RoHS Compliant*** Part Number, change TR-ND to PTR-ND. ***Not all values listed are available as RoHS Compliant*** ★ For complete part number, substitute the corresponding resistance code listed above for (Code). † ***Note:*** Total Rated Package Power equals total number of resistors times rated Power per resistor ◆ ***RoHS Compliant***

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

753 SERIES —
In-Line Surface Mount Leadless Resistor Networks

Fig. 1 – SRT Isolated

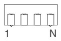

Fig. 2 – SRT Bussed

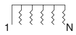

Fig. 3 – DRT Bussed

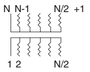

Fig. 4 – DRT Isolated

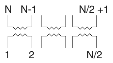

Fig. 5 – GTL Termination

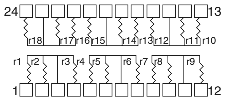
24
13
r18 r17 r16 r15 r14 r13 r12 r11 r10
r1 r2 r3 r4 r5 r6 r7 r8 r9
1
12

Series 753 in-line surface mount leadless resistor networks provide the highest density per area of any conventional surface mount solution. In a bussed configuration, the networks provide two times the resistors per area compared to 0603 sized chips, and more than six times that offered by 0805 sized chips.

Specifications: • Resistance Tolerance: ±2% or 0.5Ω, whichever is greater • Maximum Operating Voltage: 25V, not to exceed rated power • Temperature Coefficient: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

Features: • High density packaging • Solid ceramic construction • Available terminations per package: Single Row Terminations: 8, 9, 10; Dual Row Terminations: 16, 18, 20, 24 • Solder coated pads • Designed for visual inspection of solder joints and board cleaning

RESISTANCE VALUES

(All values listed in ohms)

RoHS Compliant Parts Available

SRT – Bussed 8 Terminal Value (Code)	SRT – Isolated 8 Terminal Value (Code)	SRT – Bussed 9 Terminal Value (Code)	SRT – Bussed 10 Terminal Value (Code)	DRT – Bussed 16 Terminal Value (Code)	DRT – Isolated 16 Terminal Value (Code)	DRT – Bussed 18 Terminal Value (Code)	DRT – Bussed 20 Terminal Value (Code)	DRT – Bussed 24 Terminal Value (Code)	DRT – Isolated 24 Terminal Value (Code)	DRT – GTL 24 Terminal Value (Code)
1K (102)	33 (330) 100 (101) 100K (104)	100 (101) 1K (102) 2.2K (222) 4.7K (472) 10K (103) 22K (223) 100K (104)	1K (102) 3.3K (332) 4.7K (472) 47K (473) 10K (103)	110 (111) 10K (103)	22 (220) 39 (390) 47 (470) 100 (101) 10K (103)	1K (102) 4.7K (472) 5.6K (562) 10K (103) 22K (223)	10K (103)	10K (103)	100 (101)	39 (390) 51 (510) 68 (680)

Fig.	No. of Term.	No. of Resistors	Dimensions mm A	B	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000
1	8	4	6.22	4.44	80	753083(Code)GCT-ND▲	3.60	33.00	300.00	753083(Code)GTR-ND◆	1215.00
2	9	8	6.86	4.90	40	753091(Code)GCT-ND▲	3.69	33.83	307.50	753091(Code)GTR-ND◆	1568.00
2	10	9	7.49	5.72	40	753101(Code)GCT-ND▲	2.95	27.03	245.75	753101(Code)GTR-ND◆	1475.00
3	16	14	6.22	4.44	40	753161(Code)GCT-ND▲	3.69	33.83	307.50	753161(Code)GTR-ND◆	1568.00
4	16	8	6.22	4.44	80	753163(Code)GCT-ND▲	3.60	33.00	300.00	753163(Code)GTR-ND◆	1530.00
3	18	16	6.86	4.90	40	753181(Code)GCT-ND▲	3.69	33.83	307.50	753181(Code)GTR-ND◆	1568.00
3	20	18	7.49	5.72	40	753201(Code)GCT-ND▲	3.69	33.83	307.50	753201(Code)GTR-ND◆	1845.00
3	24	22	8.76	6.98	40	753241(Code)GCT-ND▲	3.69	33.83	307.50	753241(Code)GTR-ND◆	1845.00
4	24	12	8.76	6.98	80	753243(Code)GCT-ND	2.43	22.28	202.50	753243(Code)GTR-ND	1458.00
5	24	18	8.76	6.98	60	75324G(Code)GCT-ND	2.92	26.73	243.00	75324G(Code)GTR-ND	1458.00

Fig.	No. of Term.	No. of Res.	Dimensions mm A	B	Resistor Power Rating (mW@70°C)	Res. Value (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000
2	8	7	6.22	4.44	40	1K	—	—	—	—	753081102GTR-ND	1310.00
3	18	16	6.86	4.90	40	22K	753181223GBK-ND	3.78	30.24	211.68	753181223GTR-ND	1310.00
3	18	16	6.86	4.90	40	4.7K	753181472GBK-ND	3.78	30.24	211.68	753181472GTR-ND	1310.00

† For complete part number, substitute the corresponding resistance (Code) from resistance value chart. ▲ For *RoHS Compliant* Part Number, change CT-ND to PCT-ND ◆ For *RoHS Compliant* Part Number, change TR-ND to PTR-ND ***Not all values listed are available as RoHS Compliant***

Series 753

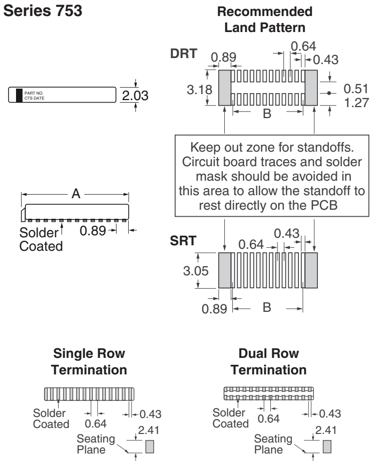

Keep out zone for standoffs. Circuit board traces and solder mask should be avoided in this area to allow the standoff to rest directly on the PCB

G

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752 SERIES — Surface Mount Single Row and Dual Row Termination

Fig. 1 – SRT Bussed

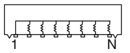

Fig. 2 – DRT Bussed

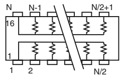

Fig. 3 – SRT Isolated

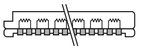

Fig. 4 – SRT Dual Term.

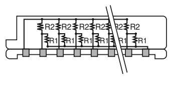

Fig. 5 – DRT Isolated

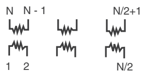

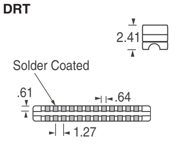

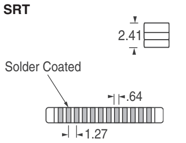

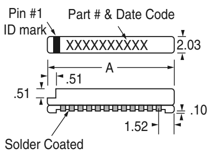

RoHS Compliant Parts Available

SPECIFICATIONS: Resistance Range: Standard 22Ω to 1MegΩ **Resistance Tolerance:** The Bussed and Isolated circuits are 2%, the Dual Terminator circuit is 5% **Maximum Operating Voltage:** 25V not to exceed rated power **Temperature Coefficient:** Standard: ±200 PPM/°C **Dielectric Strength:** 100 VAC **Operating Temperature Range:** -55°C ~ 125°C **In-line Surface Mount Resistor Networks:** • High density packaging • Low profile • Input/outputs available: Dual Row Terminations 16, 18, 20, 24; Single Row Terminations 8, 9, 10, 12 • Solder coated pads • Designed for visual inspection of solder joints and for board cleaning • 24mm tape and reel packaging • Meets UL-94VO requirements

RESISTANCE VALUES

(All values listed in ohms)

SRT – Bussed 9 Terminal	SRT – Bussed 10 Terminal	DRT – Bussed 16, 18, 20, 24 Term.	SRT – Isolated 8, 10, 12 Terminal	DRT – Isolated 24 Terminal
100 560 680 1K 2.2K 4.7K 10K 22K 100K	1K 3.3K 10K	1K 10K 47K 100K	22 33 47 100 1K 2.2K 3.3K 4.7K 10K	22

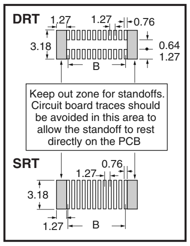

Keep out zone for standoffs. Circuit board traces should be avoided in this area to allow the standoff to rest directly on the PCB

Max. Resistor Power (Not to exceed total network power)

	Bussed & Dual Terminator Schematic	Isolated Schematic
@25°C	.12w	.24w
@70°C	.08w	.16w

Fig.	No. of Term.	No. of Res.	Dim. – mm A	B	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Bulk Pricing 1	10	100	Digi-Key Part No.†	T & R Pricing 1,000
1	9	8	13.08	10.16	80	752-091-(Value)BK-ND▼	3.88	31.02	217.14	752-091-(Value)TR-ND◆	1344.00
1	10	9	14.35	11.43	80	752-101-(Value)BK-ND▼	3.88	31.02	217.14	752-101-(Value)TR-ND◆	1344.00
2	16	14	11.81	8.89	80	752-161-(Value)BK-ND▼	2.90	25.85	191.29	752-161-(Value)TR-ND◆	1344.00
2	18	16	13.08	10.16	80	752-181-(Value)PBK-ND	3.88	31.02	217.14	752-181-(Value)TR-ND◆	1344.00
2	20	18	14.35	11.43	80	752-201-(Value)BK-ND▼	3.88	31.02	217.14	752-201-(Value)TR-ND◆	1344.00
2	24	22	16.89	13.97	80	752-241-(Value)BK-ND▼	3.88	31.02	217.14	752-241-(Value)TR-ND◆	1318.00
3	8	4	11.81	8.89	160	752-083-(Value)BK-ND▼	3.06	27.14	207.27	752-083-(Value)TR-ND◆	1283.00
3	10	5	14.35	11.43	160	752-103-(Value)BK-ND▼	3.06	27.14	207.27	752-103-(Value)TR-ND◆	983.00
3	12	6	16.89	13.97	160	752-123-(Value)BK-ND▼	2.84	22.68	158.76	752-123-(Value)TR-ND◆	1283.00
4	10	16	14.35	11.43	80	—	—	—	—	752-105-220/330TR-ND◆	1420.00
5	24	12	16.89	13.97	16	—	—	—	—	752-105-220/330PTR-ND	983.00

† For complete part number, substitute the corresponding value from chart above (Value). ▼ For *RoHS Compliant* Part Number, change BK-ND to PBK-ND ◆ For *RoHS Compliant* Part Number, change TR-ND to PTR-ND ***Not all values listed are available as RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS®

Resistor Networks

OVER 1,500
VALUES AVAILABLE

RoHS Compliant parts Available

750 SERIES

Single-In-Line

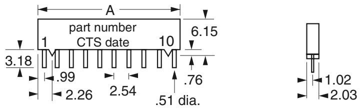

Solid ceramic networks are more efficient because they operate at lower temperatures. This translates into long term reliability in a resistor network.

Specifications:
• **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
• Low-profile construction • Excellent power dissipation • High reliability • Alumina substrate

770 SERIES

Single-In-Line Conformal

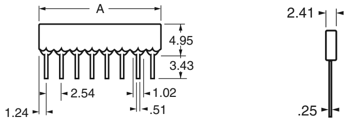

Standard Products 770 series is available in 6, 8, and 10 pin sizes, and in many available resistance values.

Specifications:
• **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
• High reliability resistors • Low-profile construction • .100" lead spacing • Alumina substrate

760 and 761 SERIES

Dual-In-Line

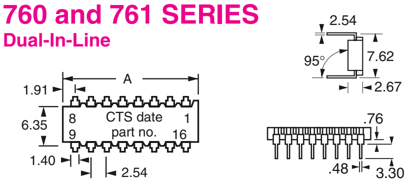

Requires 30% less board space than molded networks of the same power rating.

Specifications:
• **Resistance Tolerance:** Standard: ±2% • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** 100Ω through 1MΩ ±100PPM/°C typical, Below 100Ω ±200PPM/°C typical • **Operating Temperature Range:** –55°C ~ 125°C • **Dielectric Strength**: 100V

766 and 767 SERIES

Dual-In-Line Surface Mount

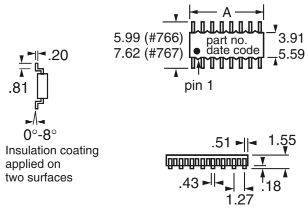

Thin cover coating generates higher power ratings. Thin proprietary cover protection keeps resistors near the surface, allowing the alumina substrate to act as a heat sink. That means higher power ratings than molded networks.

Specifications:
• **Resistance Tolerance:** ±2%. • **Temperature Coefficient:** ±100PPM/°C typical

768 SERIES

Dual-In-Line Surface Mount

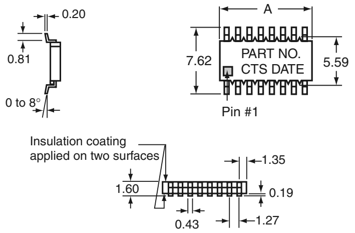

Medium body, small outline products. Low profile — board to network clearance of 0.075"/0.005".

Specifications:
• **Resistance Tolerance:** Standard: ±2% or 0.5Ω (whichever is greater) • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** Standard: 100Ω to 1MΩ ±100PPM/°C typical, 10Ω to 99Ω ±200PPM/°C typical • **Operating Temperature Range:** -55°C ~ 125°C • **Dielectric Strength:** 100VAC

Fig. 1 - Bussed

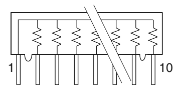

Fig. 2 - Isolated

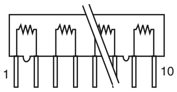

Fig. 3 - Dual Term

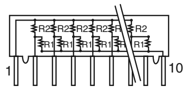

Fig. 4 - Bussed

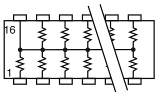

Fig. 5 - Isolated

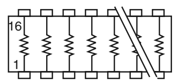

Fig. 6 - Dual Term

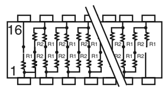

AVAILABLE VALUES
(listed in Ω)

Isolated and Bussed Circuits

22	56	180	470	1.2K	3.3K	8.2K	22K	68K	220K	680K
27	68	200	510	1.5K	3.9K	10K	27K	82K	270K	820K
33	82	220	560	1.8K	4.7K	12K	33K	100K	330K	1Meg
39	100	270	680	2K	5.1K	15K	39K	120K	390K	
47	120	330	820	2.2K	5.6K	18K	47K	150K	470K	
51	150	390	1K	2.7K	6.8K	20K	56K	180K	560K	

AVAILABLE VALUES
(listed in Ω)

750 and 770 SERIES Dual Terminator Circuits
81/130
121/195
162/260
180/390
220/330
330/390

AVAILABLE VALUES
(listed in Ω)

760 and 761 SERIES Dual Terminator Circuits
180/390
220/270
220/330
330/390
680/1.5K
1.5K/3.3K

AVAILABLE VALUES
(listed in Ω)

766, 767 and 768 SERIES Dual Terminator Circuits
180/390
220/330
330/390
330/470

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Pricing 1	10	100	1,000
750	1	8	7	19.76	250	750-81-R(Value)-ND	1.05	9.17	72.05	524.00
		10	9	24.84	250	750-101-R(Value)-ND	1.25	10.92	85.80	624.00
	2	8	4	19.76	400	750-83-R47K-ND	1.05	9.17	72.05	524.00
		10	5	24.84	400	750-103-R(Value)-ND	1.25	10.92	85.80	624.00
	3	8	12	19.76	250	750-85-R121/195-ND	1.41	12.36	97.08	706.00
770	1	6	5	15.19	100	770-61-R(Value)-ND	.21	1.76	13.20	88.00
		6	5	15.19	100	770-61-R(Value)P-ND◆	.55	3.90	20.28	109.20
		8	7	20.27	100	770-81-R(Value)-ND	.39	3.40	26.68	194.00
		8	7	20.27	100	770-81-R(Value)P-ND◆	.39	3.40	26.68	194.00
		10	9	25.35	100	770-101-R(Value)-ND	.30	2.63	20.63	150.00
		10	9	25.35	100	770-101-R(Value)P-ND◆	.68	5.02	29.21	163.73
	2	6	3	15.19	200	770-63-R(Value)-ND	.21	1.76	13.20	88.00
		6	3	15.19	200	770-63-R(Value)P-ND◆	.55	3.90	20.28	109.20
		8	4	20.27	200	770-83-R(Value)-ND	.28	2.36	17.70	118.00
		8	4	20.27	200	770-83-R(Value)P-ND◆	.39	3.40	26.68	194.00
		10	5	25.35	200	770-103-R(Value)-ND	.30	2.63	20.63	150.00
		10	5	25.35	200	770-103-R(Value)P-ND◆	.48	4.17	32.73	238.00
	3	8	12	20.27	100	770-85-R(Value)-ND	.57	4.84	36.30	242.00
		8	12	20.27	100	770-85-R(Value)P-ND◆	.90	7.94	57.60	340.48
		10	16	25.35	100	770-105-R(Value)-ND	.54	4.76	37.40	272.00
		10	16	25.35	100	770-105-R(Value)P-ND◆	1.09	9.56	75.08	546.00
760/ 761	4	14	13	19.05	150	760-1-R(Value)-ND	.98	8.13	68.25	422.50
		16	15	21.59	150	761-1-R(Value)-ND	1.00	9.16	83.25	499.50
	5	14	7	19.05	300	760-3-R(Value)-ND	.98	8.13	68.25	422.50
		16	8	21.59	300	761-3-R(Value)-ND	1.00	9.16	83.25	499.50
	6	14	24	19.05	150	760-5-R(Value)-ND	1.35	11.28	94.71	586.30
		16	28	21.59	150	761-5-R(Value)-ND	1.38	12.62	114.75	688.50

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Pricing 1	10	100	1,000
766	4	14	13	8.64	80	766-141-R(Value)-ND	1.46	11.67	81.69	505.70
		14	13	8.64	80	766-141-R(Value)P-ND◆	1.66	14.69	106.65	630.42
		16	15	9.91	80	766-161-R(Value)-ND	1.46	11.67	81.69	505.70
		16	15	9.91	80	766-161-R(Value)P-ND◆	1.66	14.69	106.65	630.42
	5	14	7	8.64	160	766-143-R(Value)-ND	1.46	11.67	81.69	505.70
		14	7	8.64	160	766-143-R(Value)P-ND◆	1.66	14.69	106.65	630.42
		16	8	9.91	160	766-163-R(Value)-ND	1.22	9.72	68.04	421.20
		16	8	9.91	160	766-163-R(Value)P-ND◆	1.78	14.22	99.54	616.20
	6	14	24	8.64	80	766-145-R(Value)-ND	1..43	11.40	79.80	494.00
		14	24	8.64	80	766-145-R(Value)P-ND◆	1.72	15.29	116.76	722.80
		16	28	9.91	80	766-165-R(Value)-ND	1.43	11.40	79.80	494.00
		16	28	9.91	80	766-165-R(Value)P-ND◆	1.72	15.29	116.76	722.80
767	4	14	13	9.91	100	767-141-R(Value)-ND	.79	6.30	44.10	273.00
		14	13	9.91	100	767-141-R(Value)P-ND◆	1.24	9.90	69.30	429.00
		16	15	11.18	100	767-161-R(Value)-ND	.79	6.30	44.10	273.00
		16	15	11.18	100	767-161-R(Value)P-ND◆	1.24	9.90	69.30	429.00
	5	14	7	9.91	200	767-143-R(Value)-ND	.79	6.30	44.10	273.00
		14	7	9.91	200	767-143-R(Value)P-ND◆	1.24	9.90	69.30	429.00
		16	8	11.18	200	767-163-R(Value)-ND	.66	5.25	36.75	227.50
		16	8	11.18	200	767-163-R(Value)P-ND◆	1.24	9.90	69.30	429.00
	6	14	24	9.91	100	767-145-R(Value)-ND	.85	6.78	47.46	293.80
		14	24	9.91	100	767-145-R(Value)P-ND◆	1.24	9.90	69.30	429.00
		16	28	11.18	100	767-165-R(Value)-ND	.71	5.64	39.48	244.40
		16	28	11.18	100	767-165-R(Value)P-ND◆	1.16	10.23	74.25	438.90
768	4	14	13	9.91	100	768-141-R(Value)-ND	.79	6.30	44.10	273.00
		16	15	11.18	100	768-161-R(Value)-ND	.79	6.30	44.10	273.00
	5	14	7	9.91	200	768-143-R(Value)-ND	.79	6.30	44.10	273.00
		16	8	11.18	200	768-163-R(Value)-ND	1.16	10.23	74.25	438.90
	6	14	24	9.91	100	768-145-R(Value)-ND	.85	6.78	47.46	293.80
		16	28	11.18	100	768-165-R(Value)-ND	.85	6.78	47.46	293.80

† For complete part number, substitute the corresponding value from the above chart (Value); ***Note: Not all values listed are available in RoHS Compliant product.*** ◆ ***RoHS Compliant***

4100R Series

4116R

Thick Film Molded DIPs

• Compatible with automatic insertion equipment • Copper leads for excellent heat dissipation • High temperature lead attachment to withstand reflow solder temperatures up to 260°C • Trifurcated Krimp-Joint™ lead attachment for product reliability and strength

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 electroplate • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

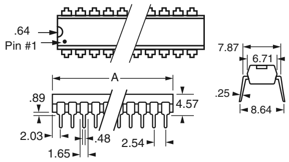

4800P Series

4816P

Thick Film Surface Mount Medium Body (5.59mm)

• Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment. • High temperature lead attachment to withstand reflow temperatures up to 260°C.

Electrical Characteristics:
• **Maximum Operating Voltage:** 50V • **Temperature Coefficient of Resistance:** 50Ω and above: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum. • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

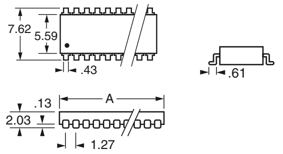

All values listed in Ω

Resistance Values (001 and 002) Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (003) Dual Terminator Circuits

Value (Code)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

4300R Series

4306R, 4308R and 4310R

Thick Film Molded SIPs, Low Profile

• Low profile provides compatibility with DIPs • Compatible with automatic insertion equipment • High temperature lead attachment to withstand reflow temperatures up to 260°C • Copper leads for excellent heat dissipation

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C • **Power Rating:** Derate to zero power from 70°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 plated • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω±2%

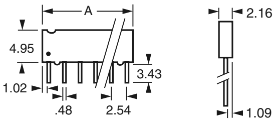

4600X Series

4606X, 4608X and 4610X

Thick Film Conformal SIPs, Low Profile

• Low Profile is compatible with DIPs • High temperature lead attachment to withstand reflow temperatures up to 260°C

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Epoxy resin/anhydride disphenol A

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

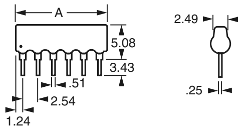

All values listed in Ω

Resistance Values (001 and 002) Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (004) Dual Terminator Circuits

Value (Code)
160/240 (161/241)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

Fig. 1 – Isolated

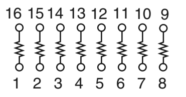

Fig. 2 – Bussed

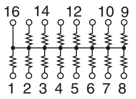

Fig. 3 – Dual Term

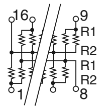

Fig. 4 – Dual Term

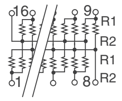

Fig. 5 – Isolated

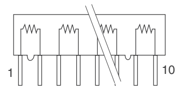

Fig. 6 – Bussed

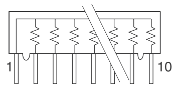

Fig. 7 – Dual Term

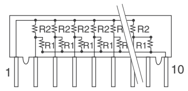

Series	Fig.	No. of Pins	No. of Res.	Dimension A (mm)	Element Power Rating (W @ 70°C)	Digi-Key Part No.‡	Pricing					
							1	10	50	100	500	1,000
4100	1	16	8	21.97	.25	4116R-1-(Code)LF-ND	.60	5.27	22.10	37.78	157.41	264.00
	2	16	15	21.97	.125	4116R-2-(Code)LF-ND	.60	5.27	22.10	37.78	157.41	264.00
	3	16	28	21.97	.125	4116R-3-(Code)/(Code)LF-ND	1.27	11.28	47.32	80.89	337.04	566.00
4300	6	6	5	14.83	.20	4306R-1-(Code)LF-ND	.47	4.19	17.55	30.00	125.00	210.00
	5	6	3	14.83	.30	4306R-2-(Code)LF-ND	.47	4.19	17.55	30.00	125.00	210.00
	7	6	8	14.83	.20	4306R-4-(Code)/(Code)L-ND	.67	5.89	24.70	42.22	175.93	296.00
	6	8	7	19.91	.20	4308R-1-(Code)LF-ND	.54	4.81	20.15	34.44	143.52	241.00
	5	8	4	19.91	.30	4308R-2-(Code)LF-ND	.54	4.81	20.15	34.44	143.52	241.00
	7	8	12	19.91	.20	4308R-4-(Code)/(Code)L-ND	.74	6.51	27.30	46.67	194.44	327.00
	6	10	9	24.99	.20	4310R-1-(Code)LF-ND	.65	5.74	24.05	41.11	171.30	288.00
	5	10	5	24.99	.30	4310R-2-(Code)LF-ND	.65	5.74	24.05	41.11	171.30	288.00
	7	10	16	24.99	.20	4310R-4-(Code)/(Code)L-ND	.88	7.75	32.50	55.56	231.48	389.00
4600	6	6	5	15.19	.20	4606X-1-(Code)LF-ND	.25	2.23	9.36	16.00	66.67	112.00
	5	6	3	15.19	.30	4606X-2-(Code)LF-ND	.25	2.23	9.36	16.00	66.67	112.00
	7	6	8	15.19	.20	4606X-4-(Code)/(Code)L-ND	.53	4.65	19.50	33.33	138.89	233.00
	6	8	7	20.27	.20	4608X-1-(Code)LF-ND	.32	2.79	11.70	20.00	83.33	140.00
	5	8	4	20.27	.30	4608X-2-(Code)LF-ND	.32	2.79	11.70	20.00	83.33	140.00
	7	8	12	20.27	.20	4608X-4-(Code)/(Code)L-ND	.63	5.58	23.40	40.00	166.67	280.00
	6	10	9	25.35	.20	4610X-1-(Code)LF-ND	.39	3.41	14.30	24.44	101.85	171.00
	5	10	5	25.35	.30	4610X-2-(Code)LF-ND	.39	3.41	14.30	24.44	101.85	171.00
	7	10	16	25.35	.20	4610X-4-(Code)/(Code)L-ND	.70	6.20	26.00	44.44	185.19	311.00
4800	1	16	8	12.45	.160	4816P-1-(Code)-ND◆	1.12	9.92	41.60	71.00	300.00	500.00
	2	16	15	12.45	.080	4816P-2-(Code)LF-ND	1.12	9.92	41.60	71.00	300.00	500.00
	4	16	28	12.45	.080	4816P-3-302/622L-ND	1.75	15.50	65.00	110.94	468.75	781.00

‡ For complete part number, substitute the corresponding code from the Resistance Values chart for (Code) ◆ For ***RoHS Compliant*** Part Number change -ND to LF-ND ★ For ***RoHS Compliant*** Part Number change -ND to L-ND ***Not all values listed are available as RoHS Compliant***

Cermet Potentiometers

Model ST-32 - Surface Mount, Single-Turn

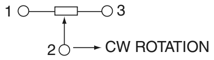

FEATURES: • Top and side adjustment styles • Has a rotor with a cross slot for ease of adjustment • Leaded terminals provide strong adhesive strength against P.C.B. bending • J-hook, Gull wing and leaded terminal configurations • Compatible with P.C.B. pad outline dimensions for ST-3 series • Sealed/Washable **ELECTRICAL:** • Resistance Tolerance: ±20% • Power Rating: 0.125W at 70°C, 0W at 125°C • Input Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Effective Electrical Angle: 210° (1 turn) • End Resistance: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Insulation Resistance: 1000MΩ minimum at 500VDC Dielectric Strength: 500VAC, 60s **MECHANICAL:** • Mechanical Angle: 250° (1 turn) • Operating Torque: 51 gram force-cm maximum • Minimum Stop Strength: 204 gram force-cm • Rotational Life: 100 cycles (▲ R/R ≤ 2Ω +3%)

Dim. in mm

ST-32TA - Top Adjustment, J-Hook

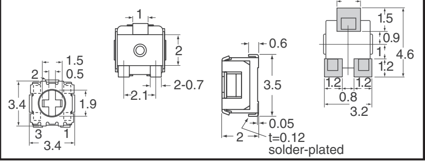

ST-32TB - Top Adjustment, Gull Wing

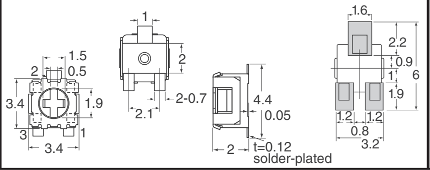

ST-32TG - Side Adjustment, J-Hook

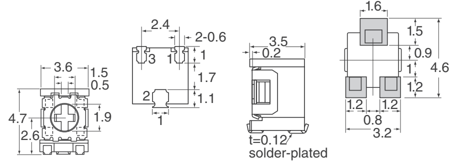

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing* 500
10	—	ST32TB100CT-ND	1.56	1.44	ST32TB100TR-ND	551.25
20	ST32TA200CT-ND	ST32TB200CT-ND	1.56	1.44	ST32TB200TR-ND	551.25
100	ST32TA101CT-ND	—	1.46	1.36	—	—
200	ST32TA201CT-ND	—	1.46	1.36	—	—
300	—	ST32TB301CT-ND	1.62	1.47	—	—
100K	—	ST32TB104CT-ND	1.46	1.36	—	—
200K	ST32TA204CT-ND	ST32TB204CT-ND	1.46	1.36	—	—
500K	ST32TA504CT-ND	—	1.46	1.36	—	—

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10
10	ST32TG100CT-ND	1.74	1.57
20	ST32TG200CT-ND	1.74	1.57
50	ST32TG500CT-ND	1.62	1.47
200	ST32TG201CT-ND	1.62	1.47
500	ST32TG501CT-ND	1.62	1.47
3K	ST32TG302CT-ND	1.77	1.60
5K	ST32TG502CT-ND	1.62	1.47
20K	ST32TG203CT-ND	1.62	1.47
100K	ST32TG104CT-ND	1.62	1.47
200K	ST32TG204CT-ND	1.62	1.47
1M	ST32TG105CT-ND	1.62	1.47

* Tape and Reel

Model SM4 - Surface Mount 4mm, 12-Turn, Sealed

Dim. in mm

SM4W - J Lead, Top Adjust

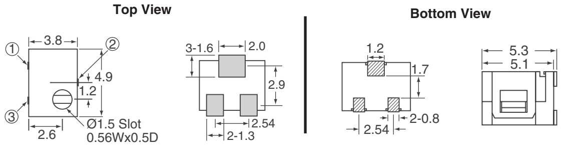

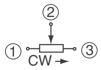

FEATURES: • Sealed to allow for automatic processing • Stable cermet element • Precious metal contact **ELECTRICAL:** • Resistance Tolerance: ±10% • Maximum Temperature Coefficient: ±100 ppm/°C • Power Rating: 0.25W at 85°C, 0W at 150°C • Maximum Input Voltage: 300VDC or power rating, whichever is less • Maximum Wiper Current: 100mA or power rating, whichever is less • Maximum End Resistance: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -65°C ~ 150°C • Minimum Insulation Resistance: 1000MΩ at 500VDC • Dielectric Strength: 600VAC, 1 minute **MECHANICAL:** • Mechanical Turn: 12 turns • Operating Torque: 20-300 gram-cm • Minimum Stop Strength: Clutch action • Rotational Life: 200 cycles, (▲ R/R ≤ ±3Ω +3%)

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500
200	SM4W201-ND	3.75	3.25	2.94	2.50

Units Marked with Resistance Code and 2-Digit Date Code

Model ST7 - Low Profile, Surface Mount, 7mm Squared Multi-Turn

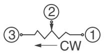

FEATURES:

• Sealed to allow for automatic processing • Precious metal alloy contact **ELECTRICAL:** • Resistance Tolerance: ±20% standard • Temperature Coefficient of Resistance: 100Ω ~ 1MΩ ±100 ppm/°C, 50Ω ±250 ppm/°C • Power Rating: 1/4W at 70°C • Operating Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Nominal Electrical Angle: 2.5 turns • Electrical Continuity: Continuous over full mechanical range • End Resistance: 1% or 3Ω, whichever is greater • Resolution: Essentially infinite • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC for 2 minutes • Dielectric Strength: 500VAC rms, 1 minute, 1 milliamp maximum **MECHANICAL:** • Nominal Mechanical Angle: 3 turns • Operating Torque: 50 gram-cm maximum (0.70 oz.-in.) • Minimum Stop Strength: N/A, wiper idles • Rotational Life: 100 cycles (▲ R/R ≤ 2.0Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100
5K	ST7A502CT-ND	ST7B502CT-ND	5.22	4.81	3.80
50K	—	ST7B503CT-ND	5.22	4.81	3.80

Units Marked with Resistance Mark and 1 Digit Date Code.

Dim. in mm

ST7A - J Lead, Top Adjust

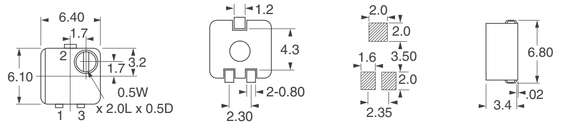

ST7B - Gull Wing, Top Adjust

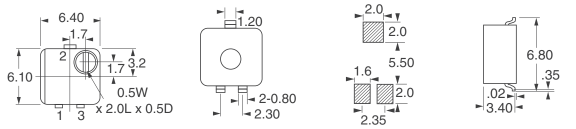

Model CT6 - 6mm Squared Single Turn

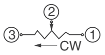

Dim. in mm

CT6W - Top Adjust

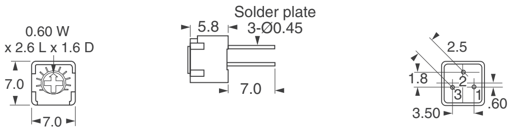

FEATURES: • Sealed to allow for automatic processing • Precious metal alloy contact • Highly automated assembly **ELECTRICAL:** • Resistance Tolerance: ±10% standard • Temperature Coefficient of Resistance: 50Ω ~ 2MΩ ±100 ppm/°C, others ±250 ppm/°C • Power Rating: 1/2W at 70°C • Operating Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Nominal Electrical Angle: 220° • Electrical Continuity: Continuous over full mechanical range • End Resistance: 1% or 2Ω, whichever is greater • Resolution: Essentially infinite • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC for 2 minutes • Dielectric Strength: 900VAC rms, 1 minute, 1 milliamp maximum **MECHANICAL:** • Nominal Mechanical Angle: 260° • Operating Torque: 20-200 gram-cm maximum (0.27~ 2.78 oz.-in.) • Minimum Stop Strength: 500 gram-cm (6.94 oz.-in.) • Rotational Life: 200 cycles (▲ R/R ≤ 2Ω +3%) • Solderability: Mil-Std-202 Method 208 • Minimum Terminal Strength: 1Kg

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50K	CT6W503-ND	.99	.86	.78	.66	.58

Units Marked with Resistance Mark and 1 Digit Date Code.

(Continued)

Model CT94

9mm Squared Multi-Turn

ELECTRICAL:

- Resistance Tolerance: ±10% • Temperature Coefficient of Resistance: 50Ω ~ 2MΩ ±100 ppm/°C, others ±250 ppm/°C • Power Rating: 1/2W at 70°C, 0W at 125°C • Operating Voltage Maximum: 300VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • End Resistance Maximum: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC • Dielectric Strength: 900VAC rms, 1 minute • Number of Mechanical Turns: 18 turns

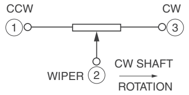

MECHANICAL:

- Operating Torque: 357 gram-cm maximum • Mechanical Stop: Clutch action • Minimum Terminal Strength: 1.02Kg • Rotational Life: 200 cycles (▲ R/R ≤ 2Ω +3%)

Dim. in mm

CT94P — Side Adjust

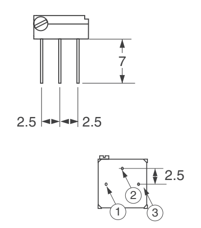

CT94Y — Top Adjust

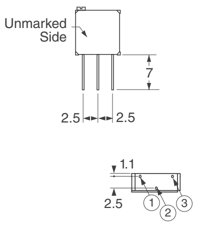

CT94Z — Side Adjust

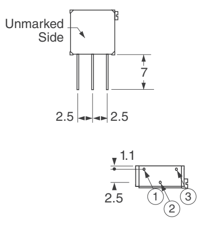

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
200	—	—	CT94Z201-ND	1.85	1.72	1.56	1.32
500	—	CT94Y501-ND	CT94Z501-ND	1.85	1.72	1.56	1.32
20K	CT94P203-ND	CT94Y203-ND	CT94Z203-ND	1.68	1.56	1.41	1.20
200K	—	—	CT94Z204-ND	1.85	1.72	1.56	1.32

Units Marked with Resistance Code and 1 Digit Date Code.

VISHAY® Sfernice

Multi-turn Cermet Trimmer Potentiometers – T93 Series 3/8" Square

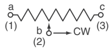

FEATURES:

- Industrial Grade
- Tests according to CECC 41 000
- Contact resistance variation <1% typical

ELECTRICAL SPECIFICATIONS:

- Resistive Element: Cermet
- Electrical Travel: 21 turns
- Tolerance (Standard): ±10%
- Power Rating (Linear): 0.5W @ 70°C
- Limiting Element Voltage (Linear Law): 250V
- Contact Resistance Variation: 2% Rn or 2Ω
- End Resistance: 1Ω typical
- Dielectric Strength (RMS): 1000V
- Insulation Resistance (500VDC): 10^6MΩ

MECHANICAL SPECIFICATIONS:

- Mechanical Travel: 23 turns ±5
- Operating Torque: 1.5Ncm maximum
- End Stop Torque: Clutch Action

Dim. in mm

T93X Series

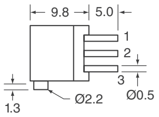

T93XA

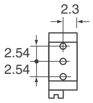

T93XB

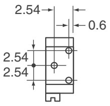

T93Y Series

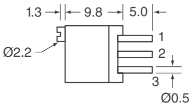

T93YA

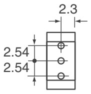

T93YB

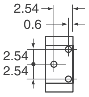

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
T93XA and T93XB Series						
100	T93XA-100-ND	—	1.70	13.55	56.81	98.33
200	T93XA-200-ND	—	1.70	13.55	56.81	98.33
500	T93XA-500-ND	T93XB-500-ND	1.70	13.55	56.81	98.33
1.0K	T93XA-1.0K-ND	T93XB-1.0K-ND	1.70	13.55	56.81	98.33
2.0K	T93XA-2.0K-ND	T93XB-2.0K-ND	1.70	13.55	56.81	98.33
5.0K	T93XA-5.0K-ND	T93XB-5.0K-ND	1.70	13.55	56.81	98.33
10K	T93XA-10K-ND	T93XB-10K-ND	1.70	13.55	56.81	98.33
20K	T93XA-20K-ND	T93XB-20K-ND	1.70	13.55	56.81	98.33
50K	T93XA-50K-ND	T93XB-50K-ND	1.70	13.55	56.81	98.33
100K	T93XA-100K-ND	T93XB-100K-ND	1.70	13.55	56.81	98.33
T93YA and T93YB Series						
10	T93YA-10-ND	—	1.70	13.55	56.81	98.33
20	T93YA-20-ND	—	1.70	13.55	56.81	98.33
50	T93YA-50-ND	—	1.70	13.55	56.81	98.33
100	T93YA-100-ND	T93YB-100-ND	1.70	13.55	56.81	98.33
200	T93YA-200-ND	T93YB-200-ND	1.70	13.55	56.81	98.33
500	T93YA-500-ND	T93YB-500-ND	1.70	13.55	56.81	98.33
1.0K	T93YA-1.0K-ND	T93YB-1.0K-ND	1.70	13.55	56.81	98.33
2.0K	T93YA-2.0K-ND	T93YB-2.0K-ND	1.70	13.55	56.81	98.33
5.0K	T93YA-5.0K-ND	T93YB-5.0K-ND	1.70	13.55	56.81	98.33
10K	T93YA-10K-ND	T93YB-10K-ND	1.70	13.55	56.81	98.33
20K	T93YA-20K-ND	T93YB-20K-ND	1.70	13.55	56.81	98.33
50K	T93YA-50K-ND	T93YB-50K-ND	1.70	13.55	56.81	98.33
100K	T93YA-100K-ND	T93YB-100K-ND	1.70	13.55	56.81	98.33
200K	T93YA-200K-ND	T93YB-200K-ND	1.70	13.55	56.81	98.33
500K	T93YA-500K-ND	T93YB-500K-ND	1.70	13.55	56.81	98.33
1.0M	T93YA-1.0M-ND	T93YB-1.0M-ND	1.70	13.55	56.81	98.33

VISHAY® Sfernice

Multi-turn Sealed Container Cermet Trimmer Potentiometers – T63 Series 1/4" Square

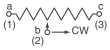

FEATURES: • Industrial Grade • Tests according to CECC 41 000 • Multi-turn operation • Low contact resistance variation 1% typical **ELECTRICAL SPECIFICATIONS:** • Resistive Element: Cermet • Electrical Travel: 13 turns ±2 • Tolerance (Standard): ±10% • Power Rating (Linear): 0.25W @ 85°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 2% Rn or 2Ω • End Resistance: 1Ω typical • Dielectric Strength (RMS): 1000V • Insulation Resistance (500VDC): 10^6MΩ **MECHANICAL SPECIFICATIONS:** • Mechanical Travel: 15 turns ±5 • Operating Torque: 1.5Ncm maximum • End Stop Torque: Clutch Action • Unit Weight: 0.5g maximum • Wiper (Actual Travel): Positioned at approximatly 50% **ENVIRONMENTAL SPECIFICATIONS:** • Temperature Range: -55°C ~ 155°C • Climatic Category: 55/125/56 • Sealing: Fully sealed; Container IP67

Dim. in mm

T63YB Series

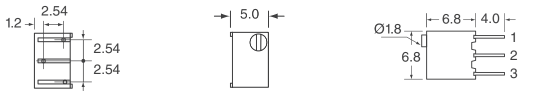

Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50	100
	T63YB Series				
100	T63YB-100-ND	2.77	24.59	107.28	187.74
200	T63YB-200-ND	2.77	24.59	107.28	187.74
1.0K	T63YB-1.0K-ND	2.77	24.59	107.28	187.74
2.0K	T63YB-2.0K-ND	2.77	24.59	107.28	187.74
5.0K	T63YB-5.0K-ND	2.77	24.59	107.28	187.74
10K	T63YB-10K-ND	2.77	24.59	107.28	187.74
20K	T63YB-20K-ND	2.77	24.59	107.28	187.74
50K	T63YB-50K-ND	2.77	24.59	107.28	187.74
100K	T63YB-100K-ND	2.77	24.59	107.28	187.74
200K	T63YB-200K-ND	2.77	24.59	107.28	187.74
500K	T63YB-500K-ND	2.77	24.59	107.28	187.74
1.0M	T63YB-1.0M-ND	2.77	24.59	107.28	187.74

Single Turn Cermet Trimmer Potentiometers – T7 Series

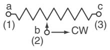

FEATURES: • Industrial Grade • Tests according to CECC 41100 • Low temperature coefficient (100ppm/k typical) • Easy to read scale **ELECTRICAL SPECIFICATIONS:** • Resistive Element: Cermet • Electrical Travel: 270° ±15° • Tolerance (Standard): ±20% • Power Rating (Linear): 0.5W @ 85°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 3% or 3Ω • End Resistance: 1Ω typical • Dielectric Strength (RMS): 1000V • Insulation Resistance: 10^6MΩ **MECHANICAL SPECIFICATIONS:** • Mechanical Travel: 300° ±5° • Operating Torque: 2Ncm maximum • End Stop Torque: 4Ncm maximum • Unit Weight: 0.5g maximum **ENVIRONMENTAL SPECIFICATIONS:** • Temperature Range: -55°C ~ 125°C • Climatic Category: 55/100/56 • Sealing: IP64

Dim. in mm

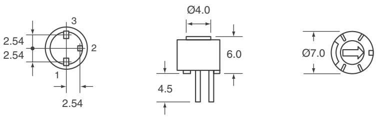

Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50	100
	T7YA Series				
1.0K	T7YA-1.0K-ND	1.52	13.42	56.29	97.43
4.7K	T7YA-4.7K-ND	1.52	13.42	56.29	97.43
10K	T7YA-10K-ND	1.52	13.42	56.29	97.43
47K	T7YA-47K-ND	1.52	13.42	56.29	97.43
1.0M	T7YA-1.0M-ND	1.52	13.42	56.29	97.43

Single Turn Sealed Cermet Potentiometers – T73 Series 1/4" Square

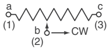

FEATURES: • Industrial grade • Fully sealed • Miniature package • Rotor designed for automatic machine adjust interface • Withstands harsh environments and immersion cleaning process **ELECTRICAL SPECIFICATIONS:** • Resistive Element: Cermet • Electrical Travel: 240° nominal • Tolerance (Standard): ±10% • Power Rating (Linear): 0.5W @ 70°C • Limiting Element Voltage: 300V • Contact Resistance Variation: 1% or 3Ω maximum whichever is greater • Absolute Minimum Resistance: 1% or 2Ω maximum whichever is greater • Adjustability: ±0.05% voltage, ±0.15% resistance • Resolution: Infinite • Insulation Resistance (500VDC): 10^3MΩ • Dielectric Strength: 900VAC sea level; 350VAC 80,000 ft. **MECHANICAL SPECIFICATIONS:** • Mechanical Travel: 270° • Operating Torque: 2.1Ncm maximum • End Stop Torque: 4.9Ncm maximum • Unit Weight: 0.6g maximum **ENVIRONMENTAL SPECIFICATIONS:** • Temperature Range: -55°C ~ 125°C • Climatic Category: 55/100/56 • Sealed Test: 85°C Fluoriert (Fluoriert is a registered trademark of 3M Co.) • Flammability: UL 94-V0

Dim. in mm

T73XX Series

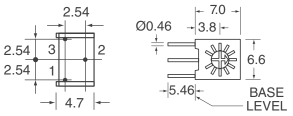

T73YE

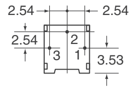

T73YP

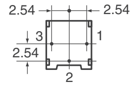

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
	T73XX Series					
1.0K	T73XX-1.0K-ND	—	.84	7.26	29.15	50.60
200K	T73XX-200K-ND	—	.84	7.26	29.15	50.60
	T73YE and T73YP Series					
200	—	T73YP-200-ND	.84	7.26	29.15	50.60
5.0K	T73YE-5.0K-ND	—	.84	7.26	29.15	50.60
200K	—	T73YP-200K-ND	.84	7.26	29.15	50.60

Multi-turn Cermet Fully Sealed Trimmer Potentiometers – TS63Y Series 1/4" Square

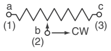

FEATURES: • Industrial grade • Multi-turn operation • Full sealing • Tests according to CECC 41 000

ELECTRICAL SPECIFICATIONS: • Resistive Element: Cermet • Electrical Travel: 13 turns ±2 • Tolerance (Standard): ±10% • Power Rating (Linear): 0.25W @ 85°C • Limiting Element Voltage: 250V • Contact Resistance Variation: 2% Rn or 2Ω • End Resistance: 1Ω typical • Dielectric Strength (RMS): 1000V • Insulation Resistance: 10^6MΩ

MECHANICAL SPECIFICATIONS: • Mechanical Travel: 15 turns ±5 • Operating Torque: 1.5Ncm maximum • End Stop Torque: Clutch Action • Unit Weight: 0.5g maximum • Wiper (Actual travel): Positioned at approximately 50%

ENVIRONMENTAL SPECIFICATIONS: • Temperature Range: -55°C ~ 155°C • Climatic Category: 55/125/56 • Sealing: Sealed container, solder immersion IP67

Dim. in mm

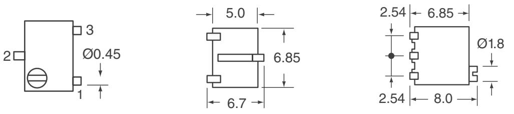

Resistance (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500
100	TS63Y-100CT-ND	3.53	32.10	256.80	TS63Y-100TR-ND	776.00
200	TS63Y-200CT-ND	3.53	32.10	256.80	TS63Y-200TR-ND	776.00
500	TS63Y-500CT-ND	3.53	32.10	256.80	TS63Y-500TR-ND	776.00
1.0K	TS63Y-1.0KCT-ND	3.53	32.10	256.80	TS63Y-1.0KTR-ND	776.00
2.0K	TS63Y-2.0KCT-ND	3.53	32.10	256.80	TS63Y-2.0KTR-ND	776.00
5.0K	TS63Y-5.0KCT-ND	3.53	32.10	256.80	TS63Y-5.0KTR-ND	776.00
10K	TS63Y-10KCT-ND	3.53	32.10	256.80	TS63Y-10KTR-ND	776.00
20K	TS63Y-20KCT-ND	3.53	32.10	256.80	TS63Y-20KTR-ND	776.00
50K	TS63Y-50KCT-ND	3.53	32.10	256.80	TS63Y-50KTR-ND	776.00
100K	TS63Y-100KCT-ND	3.53	32.10	256.80	TS63Y-100KTR-ND	776.00
500K	TS63Y-500KCT-ND	3.53	32.10	256.80	TS63Y-500KTR-ND	776.00

VISHAY. Sfernice

Single Turn Sealed Cermet Trimmer Potentiometers

TS53Y Series 4mm

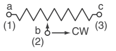

FEATURES:
- Small size for optimum packing density
- Suitable for both manual or automatic operation

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 220° ±15° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 0.25W @ 70°C • **Limiting Element Voltage**: 200V • **Contact Resistance Variation**: 1% or 3Ω • **End Resistance**: 0.1% or 3Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 270° ±10° • **Operating Torque**: 1.5Ncm maximum • **End Stop Torque**: 3.5Ncm maximum • **Unit Weight**: 0.15g maximum

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 125°C • **Climatic Category**: 55/125/56 • **Sealing**: Sealed container

TS53YJ

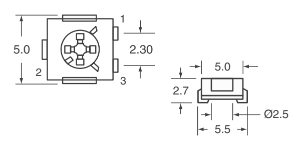

TS53YL

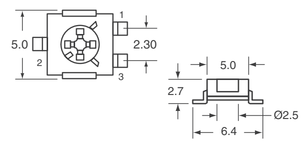

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 500
		TS53YJ and TS53YL Series				
100	—	TS53YL-100CT-ND	1.49	13.79	105.33	306.50
200	TS53YJ-200CT-ND	TS53YL-200CT-ND	1.49	13.79	105.33	306.50
500	TS53YJ-500CT-ND	TS53YL-500CT-ND	1.49	13.79	105.33	306.50
1.0K	TS53YJ-1.0KCT-ND	TS53YL-1.0KCT-ND	1.49	13.79	105.33	306.50
2.0K	TS53YJ-2.0KCT-ND	TS53YL-2.0KCT-ND	1.49	13.79	105.33	306.50
5.0K	TS53YJ-5.0KCT-ND	TS53YL-5.0KCT-ND	1.49	13.79	105.33	306.50
10K	TS53YJ-10KCT-ND	TS53YL-10KCT-ND	1.49	13.79	105.33	306.50
20K	TS53YJ-20KCT-ND	TS53YL-20KCT-ND	1.49	13.79	105.33	306.50
50K	TS53YJ-50KCT-ND	TS53YL-50KCT-ND	1.49	13.79	105.33	306.50
100K	TS53YJ-100KCT-ND	TS53YL-100KCT-ND	1.49	13.79	105.33	306.50
200K	TS53YJ-200KCT-ND	TS53YL-200KCT-ND	1.49	13.79	105.33	306.50
500K	TS53YJ-500KCT-ND	TS53YL-500KCT-ND	1.49	13.79	105.33	306.50

† For Tape and Reel part number, change CT-ND to TR-ND.

VISHAY. Spectrol

Cermet Trimmers

064 Series, 3/8" Square (10mm) Multi-Turn

Electrical Specifications: • Electrical Travel: 21 turns ±2 • Tolerance: Standard, ±10% • Power Rating: Linear, 0.5W at + 70°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 2% Rn or 2Ω • End Resistance (Typical): 1Ω • Dielectric Strength (RMS): 1000V • Insulation Resistance (500 VDC) 10^6MΩ

Features: • Industrial Grade • Tests according to CECC 41 000

Dimensions in mm

Fig. 1

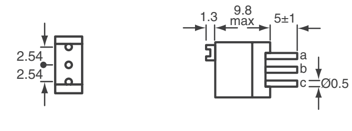

Fig. 2

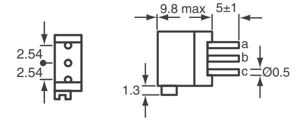

Fig. 3

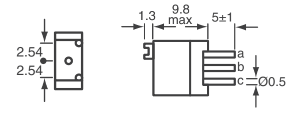

Fig.	Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1	500	SP064W-500-ND	1.68	1.52	1.35	M64W501KB40
	1.0K	SP064W-1.0K-ND	1.68	1.52	1.35	M64W102KB40
	2.0K	SP064W-2.0K-ND	1.68	1.52	1.35	M64W202KB40
	5.0K	SP064W-5.0K-ND	1.68	1.52	1.35	M64W502KB40
	10K	SP064W-10K-ND	1.68	1.52	1.35	M64W103KB40
	20K	SP064W-20K-ND	1.68	1.52	1.35	M64W203KB40
	50K	SP064W-50K-ND	1.68	1.52	1.35	M64W503KB40
	100K	SP064W-100K-ND	1.68	1.52	1.35	M64W104KB40
	200K	SP064W-200K-ND	1.68	1.52	1.35	M64W204KB40
2	1.0K	SP064X-1.0K-ND	1.68	1.52	1.35	M64X102KB40
	5.0K	SP064X-5.0K-ND	1.68	1.52	1.35	M64X502KB40
	10K	SP064X-10K-ND	1.68	1.52	1.35	M64X103KB40
	100K	SP064X-100K-ND	1.68	1.52	1.35	M64X104KB40
3	1.0K	SP064Y-1.0K-ND	1.68	1.52	1.35	M64Y102KB40
	5.0K	SP064Y-5.0K-ND	1.68	1.52	1.35	M64Y502KB40
	10K	SP064Y-10K-ND	1.68	1.52	1.35	M64Y103KB40
	100K	SP064Y-100K-ND	1.68	1.52	1.35	M64Y104KB40

063 Series, 3/8" Square (10mm) Single-Turn

Electrical Specifications: • Effective Travel: 270° Nominal • Resistance Tolerance: ±10% • End Resistance: 2Ω or 1%, whichever is greater • Temperature Coefficient or Resistance: 100 ppm/°C. 100Ω thru to 2MΩ, 0 to 250 ppm/°C below 100Ω • Power Rating: 0.5W at 70°C derated linearly to 0W at 125°C, Maximum Voltage not to exceed 300V • Dielelectric Withstanding Voltage: 1000VAC at sea level, 250VAC at 80,000 feet (24,000 meters) • Insulation Resistance (500 VDC): 1000MΩ minimum • Contact Resistance Variation: 1% or 1Ω, whichever is greater

Features: • Arrow and graduations for repeatable settings • "O" ring seal for solvent and aqueous washing • I.C. style pins for easy PCB assembly • Rigid board mounting achieved with pins secured in housing • Solder plated terminals for Good Solderability • High temperature soldered terminations for high reliability • Multi-finger wiper for better contact resistance • Solid end stop • Flame retardant housing to U_L rated VO

Dimensions in mm

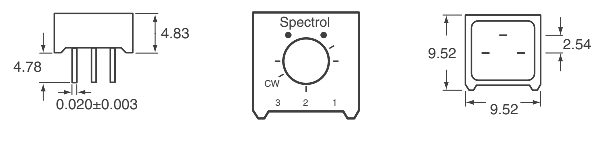

Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1.0K	SP063-1.0K-ND	1.86	1.68	1.49	M63P102KB40
5.0K	SP063-5.0K-ND	1.86	1.68	1.49	M63P502KB40
10K	SP063-10K-ND	1.95	1.76	1.56	M63P103KB40
20K	SP063-20K-ND	1.95	1.76	1.56	M63P203KB40
50K	SP063-50K-ND	1.95	1.74	1.56	M63P503KB40

043 Series, 3/4" Rectangular (19mm) Multi-Turn

Electrical Specifications: • Electrical Travel: 15 turns ±1 • Tolerance: ±10% • Power Rating: 0.50W at +70°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 2% Rn or 1Ω • End Resistance (Typical): 1Ω • Dielectric Strength (RMS): 1000V • Insulation Resistance (500VDC): 10^6 MΩ

Features: • Chevron shaft for sealing and smooth consistent torque • Solder terminations for improved reliability • Multi-finger wiper for better C.R.V.

Dimensions in mm

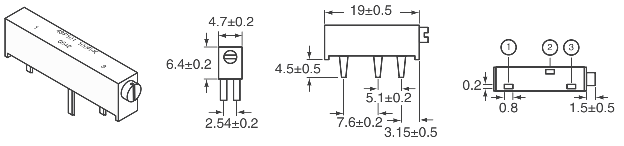

Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1.0K	SP043-1.0K-ND	1.43	1.29	1.15	M43P102KB40
2.0K	SP043-2.0K-ND	1.43	1.29	1.15	M43P202KB40
5.0K	SP043-5.0K-ND	1.43	1.29	1.15	M43P502KB40
10K	SP043-10K-ND	1.43	1.29	1.15	M43P103KB40
20K	SP043-20K-ND	1.43	1.29	1.15	M43P203KB40
50K	SP043-50K-ND	1.43	1.29	1.15	M43P503KB40
100K	SP043-100K-ND	1.43	1.29	1.15	M43P104KB40
200K	SP043-200K-ND	1.43	1.29	1.15	M43P204KB40

Trimmer Adjustment Tool

Mechanical Specifications:

Material: Glass filled nylon body with corrosion resistant stainless steel blades

Features:
- Extended, as well as recessed blade for critical adjustments
- Designed to adjust trimmers of all sizes

Dimensions in mm

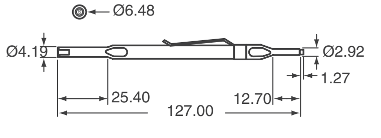

Digi-Key Part No.	Price Each 1	25	50	100	Vishay Part No.
SPTOOL-ND	1.70	1.57	1.42	1.32	ACCTRITOB308-T000

VISHAY® Sfernice

Single Turn Cermet Knob Potentiometers

P16 Series 1W

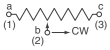

The P16 is a revolutionary concept in panel mounted potentiometers. This unique design consists of a knob driving and incorporated cermet potentiometer. Only the mounting hardware and terminals are situated on the backside of the panel reducing the required clearance to a minimum.

FEATURES:

• Test according to CECC 41300 • For professional and industrial applications • Compact (integrated) • Minimum clearance required • Safety in use due to good insulation: >10⁴MΩ 500VDC

ELECTRICAL SPECIFICATIONS:

• **Resistive Element**: Cermet • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 1W @ 40°C • **Limiting Element Voltage (Linear Law)**: 350V • **Contact Resistance Variation**: 3% Rn or 3Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 2500V • **Insulation Resistance**: ≥10⁶MΩ

MECHANICAL SPECIFICATIONS:

• **Mechanical Travel**: 300° ±5° • **Operating Torque**: 2Ncm typical • **End Stop Torque**: 25Ncm maximum • **Maximum Tightening Torque of Mounting Nut**: 250Ncm • **Unit Weight**: 4.5g typical

ENVIRONMENTAL SPECIFICATIONS:

• **Temperature Range**: -40°C ~ 85°C • **Sealing**: Sealed container and panel sealed • **Protection Grades**: IP67

Dimensions in mm

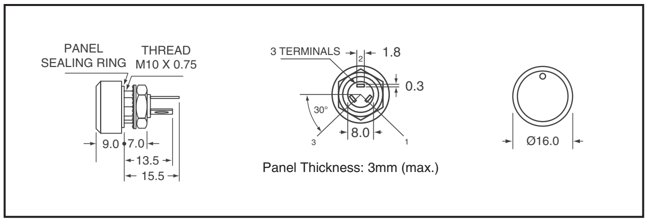

Panel Thickness: 3mm (max.)

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	100
100	P16NP-100-ND	10.74	10.08	8.29	7.17
470	P16NP-470-ND	10.74	10.08	8.29	7.17
1.0K	P16NP-1.0K-ND	10.74	10.08	8.29	7.17
2.2K	P16NP-2.2K-ND	10.74	10.08	8.29	7.17
4.7K	P16NP-4.7K-ND	10.74	10.08	8.29	7.17
10K	P16NP-10K-ND	10.74	10.08	8.29	7.17
22K	P16NP-22K-ND	10.74	10.08	8.29	7.17
47K	P16NP-47K-ND	10.74	10.08	8.29	7.17
100K	P16NP-100K-ND	10.74	10.08	8.29	7.17
470K	P16NP-470K-ND	10.74	10.08	8.29	7.17
1.0M	P16NP-1.0M-ND	10.74	10.08	8.29	7.17

Single Turn Cermet Fully Sealed Potentiometers

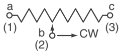

PE30 Series 3W

FEATURES:

• High power rating • Low temperature coefficient (100ppm/°C typical) • Full sealing • Mechanical strength • Use of faston 2.86 connections • Test according to CECC 41 000

ELECTRICAL SPECIFICATIONS:

• **Resistive Element**: Cermet • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 3W @ 70°C • **Limiting Element Voltage (Linear Law)**: 300V • **Contact Resistance Variation**: 3% Rn or 3Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 2500V • **Insulation Resistance (500VDC)**: 10⁶MΩ

Dimensions in mm

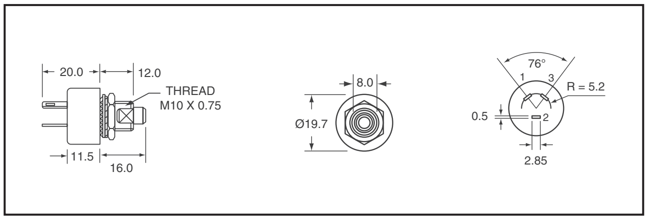

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	100
1.0K	PE30FG-1.0K-ND	16.45	14.81	12.35	11.52
4.7K	PE30FG-4.7K-ND	16.45	14.81	12.35	11.52

Single and Dual-Ganged Conductive Plastic Potentiometers

P9 Series

FEATURES:
• Conductive plastic element • Ultra compact (extra miniature module size)

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Conductive Plastic • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating @ 70°C (Linear Law)**: 0.1W • **Power Rating @ 70°C (Multiple assemblies Linear Law)**: 0.05W per module • **Temperature Coeffiecient**: ±500 ppm typical • **Limiting Element Voltage**: 10VDC, 50VAC • **End Resistance**: 3Ω typical • **Contact Resistance Variation (Linear Law - Typical)**: 2% of nominal resistance • **Independent Linearity (Linear Law)**: ±5% typical • **Insulation Resistance**: 100MΩ @ 250VDC • **Dielectric Strength (RMS)**: 300VAC during 1 minute • **Attenuation (Typical)**: 90dB max. / 0.05dB min.

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 300° ±5° • **Mechanical Rotation Life**: 25,000 cycles • **Operating Torque**: 0.2Ncm up to 2.5Ncm typical • **End Stop Torque**: 50Ncm

Dimensions in mm

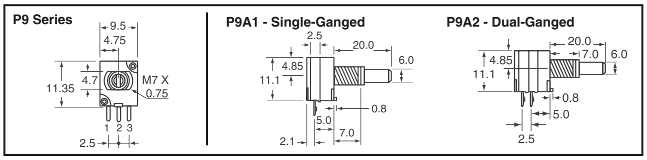

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	100
		P9A1 Series			
1.0K	P9A1-1.0K-ND	6.01	5.64	4.64	4.01
		P9A2 Series			
1.0K	P9A2-1.0K-ND	8.47	7.94	6.53	5.65

VISHAY® Spectrol

Wirewound Potentiometers

132 Series, 2.75W, 1 5/16" Single-Turn

Electrical Specifications: • Housing: Molded glass filled thermoplastic • Rear Lid: Glass filed thermoset plastic • Shaft: Stainless Steel, non-magnetic • Terminals: Brass, plated for solderability, non-passivated • Resistance tolerance: ±3% Power Rating: 2.75W (Derated to 0 + 125°C)

Features: • Continuous Rotation or with Mechanical Stops • Rotational Life, Shaft Revolutions: 500,000 • *Mounting Hardware included*

Dimensions in mm

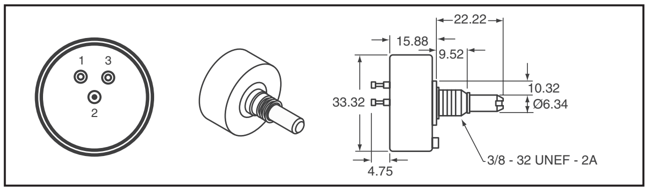

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
		Continuous Rotation			
1.0K	SP132C-1.0K-ND	35.50	33.37	29.82	132-0-0-102
2.0K	SP132C-2.0K-ND	35.50	33.37	29.82	132-0-0-202
5.0K	SP132C-5.0K-ND	35.50	33.37	29.82	132-0-0-502
10K	SP132C-10K-ND	35.50	33.37	29.82	132-0-0-103
		Mechanical Stops			
1.0K	SP132S-1.0K-ND	35.50	33.37	29.82	132-2-0-102
2.0K	SP132S-2.0K-ND	35.50	33.37	29.82	132-2-0-202
5.0K	SP132S-5.0K-ND	35.50	33.37	29.82	132-2-0-502
10K	SP132S-10K-ND	35.50	33.37	29.82	132-2-0-103

140 Series, 2W, 1/2" Single-Turn

Electrical Specifications: • Resistance Tolerance: ±5% • Power Rating: 2W at 40°C ambient derating linearly to 0 at 125° • Rotational Life: 500,000 Shaft Revolutions • Temperature Range: -55°C ~ 125°C **Material Specifications:** • Shaft: Stainless steel, non-magnetic, non-passivated • Housing: Aluminum, anodized • Rear Lid: Molded glass filled thermoset plastic • Terminals: Brass, gold plated • Lockwasher Internal Tooth: Steel, nickel plated • Panel Nut: Brass, nickel plated • *Mounting Hardware included*

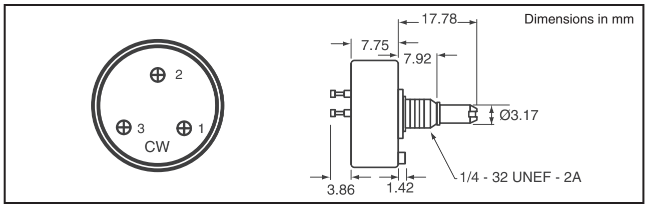

Dimensions in mm

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
1.0K	SP140-1.0K-ND	57.84	54.37	48.59	140-0-0-102
2.0K	SP140-2.0K-ND	57.84	54.37	48.59	140-0-0-202
5.0K	SP140-5.0K-ND	57.84	54.37	48.59	140-0-0-502
10K	SP140-10K-ND	57.84	54.37	48.59	140-0-0-103

(Continued)

157 Series, 1.5W, 7/8” Single-Turn

Environmental Specifications: • Temperature: -55°C ~ 125°C • Rotational Life: 10 million shaft revolutions • Moisture Resistance: Yes • Vibration: 15g 10 to 2000HZ • Shock: 50g • Salt Spray: 96 hours • Load Life: 900 hours

Material Specifications: • Housing/Bushing: Aluminum, anodized • Rear Lid: Ceramic • Shaft: Stainless Steel • Terminals: Solderable • Bushing Mount Hardware: Lockwasher, Internal Tooth Steel, Nickel plated • Panel Nut: Brass, Nickel plated • *Mounting Hardware included*

Dimensions in mm

Fig. 1

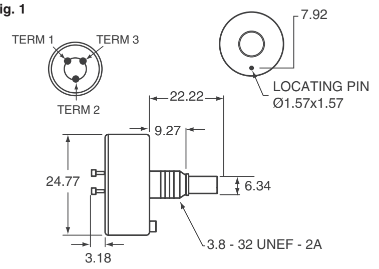

Fig. 2

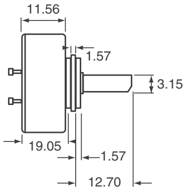

Fig.	Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
		Bushing Mount				
1	1.0K	SP157P-1.0K-ND	21.19	19.92	17.80	157B102MXB10
	2.0K	SP157P-2.0K-ND	21.19	19.92	17.80	157B202MXB10
	5.0K	SP157P-5.0K-ND	21.19	19.92	17.80	157B502MXB10
	10K	SP157P-10K-ND	21.19	19.92	17.80	157B103MXB10
	20K	SP157P-20K-ND	21.19	19.92	17.80	157B203MXB10
	50K	SP157P-50K-ND	21.19	19.92	17.80	157B503MXB10
	100K	SP157P-100K-ND	21.19	19.92	17.80	157B104MXB10
		Servo Mount				
2	1.0K	SP157S-1.0K-ND	40.62	38.19	34.13	157S102MXB10
	2.0K	SP157S-2.0K-ND	40.62	38.19	34.13	157S202MXB10
	5.0K	SP157S-5.0K-ND	40.62	38.19	34.13	157S502MXB10
	10K	SP157S-10K-ND	40.62	38.19	34.13	157S103MXB10

Wirewound Precision Potentiometers

533, 534, 535 Series, 7/8” Multi-turn

Electrical Specifications			
Parameter	Series 533	Series 534	Series 535
Standard Tool	±5%	±5%	±5%
Linearity (Independent)	±0.25%	±0.20%	±0.25%
Noise	100Ω ENR	100Ω ENR	100Ω ENR
Rotation (Electrical and Mechanical)	1080° + 10%	3600° + 10%	1800° ± 10°
Power Rating	1.0W	2.0W	1.5W
Insulation Resistance	1000MΩ minimum 500VDC		
Dielelectric Strength	1000VRMS minimum 60HZ		
Absolute Minimum Resistance	Not to exceed linearity x total resistance or 1Ω, whichever is greater.		

Dimensions in mm

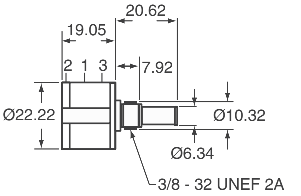

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
	533 Series — 3 Turn				
100	SP533-100-ND	19.38	18.22	16.28	533B1101JCB10
200	SP533-200-ND	19.38	18.22	16.28	533B1201JCB10
500	SP533-500-ND	19.38	18.22	16.28	533B1501JCB10
1.0K	SP533-1.0K-ND	19.38	18.22	16.28	533B1102JCB10
2.0K	SP533-2.0K-ND	19.38	18.22	16.28	533B1202JCB10
5.0K	SP533-5.0K-ND	19.38	18.22	16.28	533B1502JCB10
10K	SP533-10K-ND	19.38	18.22	16.28	533B1103JCB10
20K	SP533-20K-ND	26.40	24.82	22.18	533B1203JCB10
	534 Series — 10 Turn				
100	SP534-100-ND	13.82	12.99	11.61	534B1101JCB10
200	SP534-200-ND	13.82	12.99	11.61	534B1201JCB10
500	SP534-500-ND	13.82	12.99	11.61	534B1501JCB10
1.0K	SP534-1.0K-ND	13.82	12.99	11.61	534B1102JCB10
2.0K	SP534-2.0K-ND	13.82	12.99	11.61	534B1202JCB10
5.0K	SP534-5.0K-ND	13.82	12.99	11.61	534B1502JCB10
10K	SP534-10K-ND	13.82	12.99	11.61	534B1103JCB10
20K	SP534-20K-ND	13.82	12.99	11.61	534B1203JCB10
50K	SP534-50K-ND	18.68	17.56	15.69	534B1503JCB10
100K	SP534-100K-ND	13.82	12.99	11.61	534B1104JCB10
	535 Series — 5 Turn				
100	SP535-100-ND	19.30	18.15	16.22	535B1101JCB10
200	SP535-200-ND	19.30	18.15	16.22	535B1201JCB10
500	SP535-500-ND	19.30	18.15	16.22	535B1501JCB10
1.0K	SP535-1.0K-ND	19.30	18.15	16.22	535B1102JCB10
2.0K	SP535-2.0K-ND	19.30	18.15	16.22	535B1202JCB10
5.0K	SP535-5.0K-ND	19.30	18.15	16.22	535B1502JCB10
10K	SP535-10K-ND	19.30	18.15	16.22	535B1103JCB10
20K	SP535-20K-ND	21.00	19.74	17.64	535B1203JCB10
50K	SP535-50K-ND	24.86	23.37	20.89	535B1503JCB10

1W Industrial Rotary Position Sensor

657 Series

Electrical Specifications: • Resistance Tolerance: ±20% • Linearity: ±2% • Power Rating: 1.0W at 85°C • Electrical Travel: 240° ±4° • Dielectric Withstanding: 500V_{RMS} at 60HZ minimum • Output Smoothness: 0.2% maximum.

Features: • Fully Sealed to IP67 • Reliable conductive Plastic Technology • Stainless Steel Shaft

Dimensions in mm

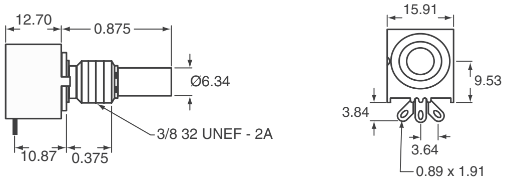

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	25	Vishay Part No.
1.0K	SP657-1.0K-ND	15.68	14.75	13.18	11.92	657BR0102BO10
2.0K	SP657-2.0K-ND	15.68	14.75	13.18	11.92	657BR0202BO10
5.0K	SP657-5.0K-ND	15.68	14.75	13.18	11.92	657BR0502BO10
10K	SP657-10K-ND	15.68	14.75	13.18	11.92	657BR0103BO10
20K	SP657-20K-ND	15.68	14.75	13.18	11.92	657BR0203BO10
50K	SP657-50K-ND	15.68	14.75	13.18	11.92	657BR0503BO10

Concentric Scale Dials

11, 15, 18, 21, 21P and 28 Series

Fig. 1 — Series 11

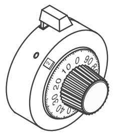

Fig. 2 — Series 15

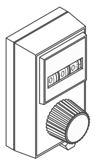

Fig. 3 — Series 18

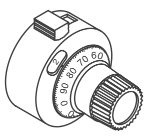

Fig. 4 — Series 21

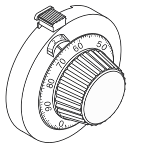

Fig. 5 — Series 21P

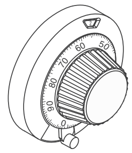

Fig. 6 — Series 28

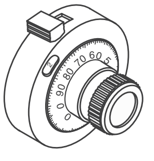

Features:

11 Series: • Round Vernier Scale • 1” Diameter • Satin Chrome, black markings

15 Series: • 3 digit • Satin Clear Anodize • Rectangular Digital Scale • 1” Wide

18 Series: • No Backlash • Compact requires minimal panel space (22, 2mm diameter requirement) • For use with precision potentiometers or other rotating devices • Designed for metal shaft, 1 set screw • High force “Click Brake” • Satin Chrome, black markings

21 Series: • Satin Chrome, black markings • Round Vernier Scale • 1-13/16” Diameter

21P Series: • Round Vernier Scale • 1-13/16” Diameter (46.0mm) • Material: Plastic ABS Mold

28 Series: • Laser Machined Markings • Accepts 1/4” Shaft • 1 Set Screw • Clear Satin Anodized housing, black rotor, white markings

Fig.	Turns	Shaft Diameter	Body Diameter	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
1	11	1/4”	25.4mm	SP011-1-11-ND	18.11	17.55	16.98	11A11B10
2	10	1/4”	—	SP015-1-11-ND	21.10	20.45	19.79	15A11B10
3	15	1/4”	22.2mm	SP018-1-11-ND	9.93	9.63	9.32	18A11B10
4	15	1/4”	46.02mm	SP021-1-11-ND	18.91	18.33	17.73	21A11B10
5	11	1/4”	46mm	SP021P-1-11-ND	14.75	14.30	13.83	21PA11B10
6	21	—	28mm	SP028-1-11-ND	19.25	18.65	18.05	28A11B10

SMD Open Type Trimmer Potentiometers 2mm - PVA2 Series

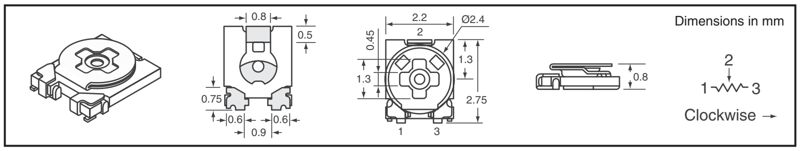

Power Rating @ 70°C (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value (Ω ±25%)	TCR (ppm/°C)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Murata Part No.
0.1	Reflow/Soldering Iron	1 (260°±10°)	100	±250	490-3915-1-ND	.22	1.83	16.01	490-3915-2-ND	109.00/M	PVA2A101A01R00
	Reflow/Soldering Iron	1 (260°±10°)	150	±250	490-3916-1-ND	.22	1.85	16.13	490-3916-2-ND	110.00/M	PVA2A151A01R00
	Reflow/Soldering Iron	1 (260°±10°)	220	±250	490-3917-1-ND	.22	1.83	16.01	490-3917-2-ND	109.00/M	PVA2A221A01R00
	Reflow/Soldering Iron	1 (260°±10°)	330	±250	490-3918-1-ND	.22	1.85	16.13	490-3918-2-ND	110.00/M	PVA2A331A01R00
	Reflow/Soldering Iron	1 (260°±10°)	470	±250	490-3919-1-ND	.22	1.83	16.01	490-3919-2-ND	109.00/M	PVA2A471A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	680	±250	490-3920-1-ND	.22	1.85	16.13	490-3920-2-ND	110.00/M	PVA2A681A01R00
	Reflow/Soldering Iron	1 (260°±10°)	1K	±250	490-3921-1-ND	.22	1.83	16.01	490-3921-2-ND	109.00/M	PVA2A102A01R00
	Reflow/Soldering Iron	1 (260°±10°)	1.5K	±250	490-3922-1-ND	.21	1.76	15.36	490-3922-2-ND	104.00/M	PVA2A152A01R00
	Reflow/Soldering Iron	1 (260°±10°)	2.2K	±250	490-3923-1-ND	.22	1.83	16.01	490-3923-2-ND	109.00/M	PVA2A222A01R00
	Reflow/Soldering Iron	1 (260°±10°)	3.3K	±250	490-3924-1-ND	.22	1.85	16.13	490-3924-2-ND	110.00/M	PVA2A332A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	4.7K	±250	490-3925-1-ND	.22	1.83	16.01	490-3925-2-ND	109.00/M	PVA2A472A01R00
	Reflow/Soldering Iron	1 (260°±10°)	6.8K	±250	490-3926-1-ND	.22	1.85	16.13	490-3926-2-ND	110.00/M	PVA2A682A01R00
	Reflow/Soldering Iron	1 (260°±10°)	10K	±250	490-3927-1-ND	.22	1.83	16.01	490-3927-2-ND	109.00/M	PVA2A103A01R00
	Reflow/Soldering Iron	1 (260°±10°)	15K	±250	490-3928-1-ND	.22	1.85	16.13	490-3928-2-ND	110.00/M	PVA2A153A01R00
	Reflow/Soldering Iron	1 (260°±10°)	22K	±250	490-3929-1-ND	.22	1.83	16.01	490-3929-2-ND	109.00/M	PVA2A223A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	33K	±250	490-3930-1-ND	.22	1.85	16.13	490-3930-2-ND	110.00/M	PVA2A333A01R00
	Reflow/Soldering Iron	1 (260°±10°)	47K	±250	490-3931-1-ND	.22	1.83	16.01	490-3931-2-ND	109.00/M	PVA2A473A01R00
	Reflow/Soldering Iron	1 (260°±10°)	68K	±250	490-3932-1-ND	.22	1.85	16.13	490-3932-2-ND	110.00/M	PVA2A683A01R00
	Reflow/Soldering Iron	1 (260°±10°)	100K	±250	490-3933-1-ND	.22	1.83	16.01	490-3933-2-ND	109.00/M	PVA2A104A01R00
	Reflow/Soldering Iron	1 (260°±10°)	150K	±250	490-3934-1-ND	.22	1.85	16.13	490-3934-2-ND	110.00/M	PVA2A154A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	220K	±250	490-3935-1-ND	.22	1.83	16.01	490-3935-2-ND	109.00/M	PVA2A224A01R00
	Reflow/Soldering Iron	1 (260°±10°)	330K	±250	490-3936-1-ND	.22	1.85	16.13	490-3936-2-ND	110.00/M	PVA2A334A01R00
	Reflow/Soldering Iron	1 (260°±10°)	470K	±250	490-3937-1-ND	.22	1.83	16.01	490-3937-2-ND	109.00/M	PVA2A474A01R00
	Reflow/Soldering Iron	1 (260°±10°)	680K	±250	490-3938-1-ND	.22	1.85	16.13	490-3938-2-ND	110.00/M	PVA2A684A01R00
	Reflow/Soldering Iron	1 (260°±10°)	1M	±250	490-3939-1-ND	.22	1.83	16.01	490-3939-2-ND	109.00/M	PVA2A105A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	1.5M	±250	490-3940-1-ND	.22	1.85	16.13	490-3940-2-ND	110.00/M	PVA2A155A01R00
	Reflow/Soldering Iron	1 (260°±10°)	2.2M	±250	490-3941-1-ND	.22	1.83	16.01	490-3941-2-ND	109.00/M	PVA2A225A01R00

SMD Sealed Type Trimmer Potentiometers 3mm - PVG3 Series

Features:

• Sealed construction protects the interior from dust and liquid, which achieves stable performance • Driver plate with cross-slot is suitable for automatic adjustment • Rotor with large diameter and deep groove improves driver insertion • Heat resistance performance enables high temperature peak re-flow soldering

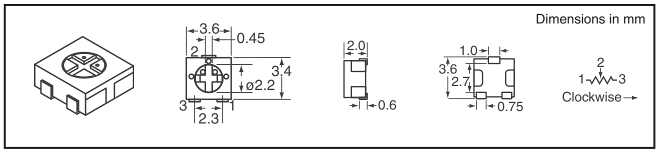

Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Murata Part No.
0.25 (70°C)	Reflow	1 (210° ±10)	10Ω ±20%	±150	490-2641-1-ND	.83	.70	.62	490-2641-2-ND	415.00	PVG3A100C01R00
	Reflow	1 (210° ±10)	20Ω ±20%	±150	490-2647-1-ND	.83	.70	.62	490-2647-2-ND	415.00	PVG3A200C01R00
	Reflow	1 (210° ±10)	50Ω ±20%	±150	490-2653-1-ND	.83	.70	.62	490-2653-2-ND	415.00	PVG3A500C01R00
	Reflow	1 (210° ±10)	100Ω ±20%	±150	490-2642-1-ND	.83	.70	.62	490-2642-2-ND	415.00	PVG3A101C01R00
	Reflow	1 (210° ±10)	200Ω ±20%	±150	490-2648-1-ND	.83	.70	.62	490-2648-2-ND	415.00	PVG3A201C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	500Ω ±20%	±150	490-2654-1-ND	.83	.70	.62	490-2654-2-ND	415.00	PVG3A501C01R00
	Reflow	1 (210° ±10)	1KΩ ±20%	±150	490-2643-1-ND	1.11	.94	.82	490-2643-2-ND	555.00	PVG3A102C01R00
	Reflow	1 (210° ±10)	2KΩ ±20%	±150	490-2649-1-ND	.83	.70	.62	490-2649-2-ND	415.00	PVG3A202C01R00
	Reflow	1 (210° ±10)	5KΩ ±20%	±150	490-2655-1-ND	.83	.70	.62	490-2655-2-ND	415.00	PVG3A502C01R00
	Reflow	1 (210° ±10)	10KΩ ±20%	±150	490-2644-1-ND	.83	.70	.62	490-2644-2-ND	415.00	PVG3A103C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	20KΩ ±20%	±150	490-2650-1-ND	.83	.70	.62	490-2650-2-ND	415.00	PVG3A203C01R00
	Reflow	1 (210° ±10)	50KΩ ±20%	±150	490-2656-1-ND	.83	.70	.62	490-2656-2-ND	415.00	PVG3A503C01R00
	Reflow	1 (210° ±10)	100KΩ ±20%	±150	490-2645-1-ND	.83	.70	.62	490-2645-2-ND	415.00	PVG3A104C01R00
	Reflow	1 (210° ±10)	200KΩ ±20%	±150	490-2651-1-ND	.83	.70	.62	490-2651-2-ND	415.00	PVG3A204C01R00
	Reflow	1 (210° ±10)	500KΩ ±20%	±150	490-2657-1-ND	.83	.70	.62	490-2657-2-ND	415.00	PVG3A504C01B00
	Reflow	1 (210° ±10)	2MΩ ±20%	±150	490-2652-1-ND	.83	.70	.62	490-2652-2-ND	415.00	PVG3A205C01R00

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series

Features:

• High resolution resulting from 11-turns design enables precise adjustment • Compatible with VPS reflow soldering method • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Dimensions in mm

Fig. 1

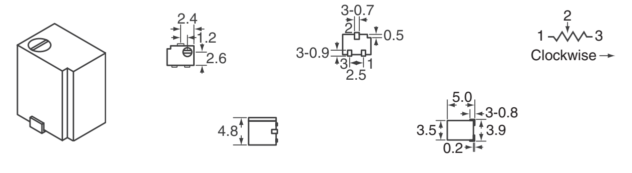

Fig. 2

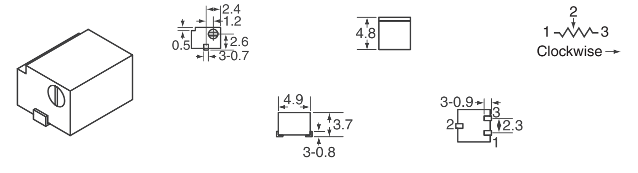

Fig.	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Qty.	Tape and Reel Pricing	Murata Part No.
1	0.25 (70°C)	Reflow	11	10Ω ±10%	±150	490-2658-1-ND	2.69	2.31	2.00	490-2658-2-ND	250	345.50	PVG5A100C03R00
	0.25 (70°C)	Reflow	11	20Ω ±10%	±150	490-2664-1-ND	2.69	2.31	2.00	490-2664-2-ND	250	345.50	PVG5A200C03R00
	0.25 (70°C)	Reflow	11	50Ω ±10%	±150	490-2670-1-ND	2.69	2.31	2.00	490-2670-2-ND	250	345.50	PVG5A500C03R00
	0.25 (70°C)	Reflow	11	100Ω ±10%	±150	490-2659-1-ND	2.69	2.31	2.00	490-2659-2-ND	250	345.50	PVG5A101C03R00
	0.25 (70°C)	Reflow	11	200Ω ±10%	±150	490-2665-1-ND	2.69	2.31	2.00	490-2665-2-ND	250	345.50	PVG5A201C03R00
	0.25 (70°C)	Reflow	11	500Ω ±10%	±150	490-2671-1-ND	2.69	2.31	2.00	490-2671-2-ND	250	345.50	PVG5A501C03R00
	0.25 (70°C)	Reflow	11	1KΩ ±10%	±150	490-2660-1-ND	2.69	2.31	2.00	490-2660-2-ND	250	345.50	PVG5A102C03R00
	0.25 (70°C)	Reflow	11	2KΩ ±10%	±150	490-2666-1-ND	2.69	2.31	2.00	490-2666-2-ND	250	345.50	PVG5A202C03R00
	0.25 (70°C)	Reflow	11	5KΩ ±10%	±150	490-2672-1-ND	2.69	2.31	2.00	490-2672-2-ND	250	345.50	PVG5A502C03R00
	0.25 (70°C)	Reflow	11	10KΩ ±10%	±150	490-2661-1-ND	2.69	2.31	2.00	490-2661-2-ND	250	345.50	PVG5A103C03R00

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series *(Cont.)*

Fig.	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Qty.	Tape and Reel Pricing	Murata Part No.
1	0.25 (70°C)	Reflow	11	20KΩ ±10%	±150	490-2667-1-ND	2.69	2.31	2.00	490-2667-2-ND	250	345.50	PVG5A203C03R00
	0.25 (70°C)	Reflow	11	50KΩ ±10%	±150	490-2673-1-ND	2.69	2.31	2.00	490-2673-2-ND	250	345.50	PVG5A503C03R00
	0.25 (70°C)	Reflow	11	100KΩ ±10%	±150	490-2662-1-ND	2.69	2.31	2.00	490-2662-2-ND	250	345.50	PVG5A104C03R00
	0.25 (70°C)	Reflow	11	200KΩ ±10%	±150	490-2668-1-ND	2.69	2.31	2.00	490-2668-2-ND	250	345.50	PVG5A204C03R00
	0.25 (70°C)	Reflow	11	500KΩ ±10%	±150	490-2674-1-ND	2.69	2.31	2.00	490-2674-2-ND	250	345.50	PVG5A504C03R00
	0.25 (70°C)	Reflow	11	1MΩ ±10%	±150	490-2663-1-ND	2.69	2.31	2.00	490-2663-2-ND	250	345.50	PVG5A105C03R00
2	0.25 (70°C)	Reflow	11	100Ω ±10%	±150	490-2676-1-ND	2.69	2.31	2.00	490-2676-2-ND	500	691.00	PVG5H101C03R00
	0.25 (70°C)	Reflow	11	200Ω ±10%	±150	490-2682-1-ND	2.69	2.31	2.00	490-2682-2-ND	500	691.00	PVG5H201C03R00
	0.25 (70°C)	Reflow	11	500Ω ±10%	±150	490-2688-1-ND	2.69	2.31	2.00	490-2688-2-ND	500	691.00	PVG5H501C03R00
	0.25 (70°C)	Reflow	11	1KΩ ±10%	±150	490-2677-1-ND	2.69	2.31	2.00	490-2677-2-ND	500	691.00	PVG5H102C03R00
	0.25 (70°C)	Reflow	11	2KΩ ±10%	±150	490-2683-1-ND	2.69	2.31	2.00	490-2683-2-ND	500	691.00	PVG5H202C03R00
	0.25 (70°C)	Reflow	11	5KΩ ±10%	±150	490-2689-1-ND	2.69	2.31	2.00	490-2689-2-ND	500	691.00	PVG5H502C03R00
	0.25 (70°C)	Reflow	11	10KΩ ±10%	±150	490-2678-1-ND	2.69	2.31	2.00	490-2678-2-ND	500	691.00	PVG5H103C03R00
	0.25 (70°C)	Reflow	11	20KΩ ±10%	±150	490-2684-1-ND	2.69	2.31	2.00	490-2684-2-ND	500	691.00	PVG5H203C03R00
	0.25 (70°C)	Reflow	11	50KΩ ±10%	±150	490-2690-1-ND	2.69	2.31	2.00	490-2690-2-ND	500	691.00	PVG5H503C03R00
	0.25 (70°C)	Reflow	11	500KΩ ±10%	±150	490-2691-1-ND	2.69	2.31	2.00	490-2691-2-ND	500	691.00	PVG5H504C03R00
	0.25 (70°C)	Reflow	11	1MΩ ±10%	±150	490-2680-1-ND	2.69	2.31	2.00	490-2680-2-ND	500	691.00	PVG5H105C03R00
	0.25 (70°C)	Reflow	11	2MΩ ±10%	±150	490-2686-1-ND	2.42	2.08	1.80	—	—	—	PVG5H205C03R00

Sealed Single-Turn Trimmer Potentiometers

PVC6 Series

Features: • Enlarged rotor provides superior adjustability • 11-scales are easy to see adjustment position • Colored rotor provides superior adjustability • Funnel shaped rotor allows for in-process automatic adjustment and it provides superior adjustability

Specifications: • Power Rating: 0.5 (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 1 (240° ± 5°)

Dimensions in mm

Fig. 1

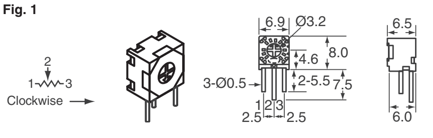

Fig. 2

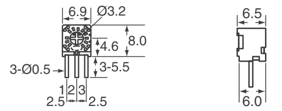

Ohms	*Top Adjust* Fig. 1 Digi-Key Part No.	*Top Adjust* Fig. 1 Murata Part No.	*Side Adjust* Fig. 2 Digi-Key Part No.	*Side Adjust* Fig. 2 Murata Part No.	Price Each 1	Price Each 10	Price Each 100
10	—	—	490-2830-ND	PVC6Q100C01B00	1.05	.79	.71
20	—	—	490-2836-ND	PVC6Q200C01B00	1.05	.79	.71
25	—	—	490-2842-ND	PVC6Q250C01B00	1.05	.79	.71
50	—	—	490-2847-ND	PVC6Q500C01B00	1.05	.79	.71
2M	490-2749-ND	PVC6E205C01B00	—	—	1.05	.79	.71

Sealed Multi-Turn Trimmer Potentiometers

PV36 Series

Features: • 25-turns, cermet, square, 9.5mm package • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Specifications: • Power Rating: 0.5W (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 25

Dimensions in mm

Fig. 1

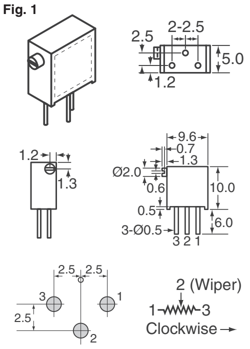

Fig. 2

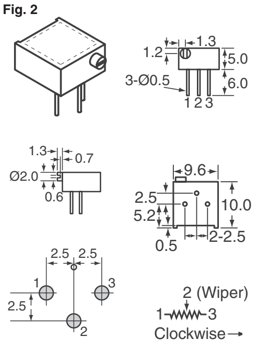

Fig. 3

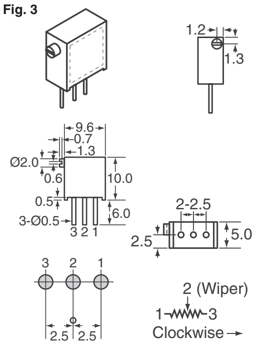

Fig. 4

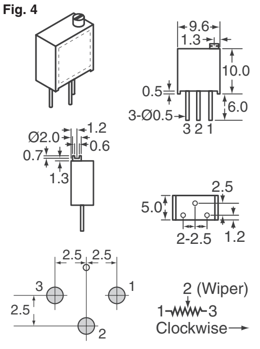

Fig. 5

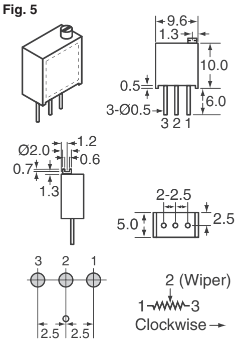

Ohms	*Side Adjust* Fig. 1 Digi-Key Part No.	*Side Adjust* Fig. 1 Murata Part No.	*Side Adjust* Fig. 2 Digi-Key Part No.	*Side Adjust* Fig. 2 Murata Part No.	*Side Adjust* Fig. 3 Digi-Key Part No.	*Side Adjust* Fig. 3 Murata Part No.	*Top Adjust* Fig. 4 Digi-Key Part No.	*Top Adjust* Fig. 4 Murata Part No.	*Top Adjust* Fig. 5 Digi-Key Part No.	*Top Adjust* Fig. 5 Murata Part No.	Price Each 1	Price Each 10	Price Each 100
10	—	—	490-2853-ND	PV36P100C01B00	—	—	490-2910-ND	PV36Y100C01B00	490-2872-ND	PV36W100C01B00	.92	.84	.59
20	490-2935-ND	PV36Z200C01B00	—	PV36P200C01B00	490-2897-ND	PV36X200C01B00	490-2916-ND	PV36Y200C01B00	490-2878-ND	PV36W200C01B00	.92	.84	.59
50	490-2943-ND	PV36Z500C01B00	490-2867-ND	PV36P500C01B00	490-2905-ND	PV36X500C01B00	490-2924-ND	PV36Y500C01B00	490-2886-ND	PV36W500C01B00	.92	.84	.59
100	490-2930-ND	PV36Z101C01B00	490-2854-ND	PV36P101C01B00	490-2892-ND	PV36X101C01B00	490-2911-ND	PV36Y101C01B00	490-2873-ND	PV36W101C01B00	.92	.84	.59
200	490-2936-ND	PV36Z201C01B00	490-2860-ND	PV36P201C01B00	490-2898-ND	PV36X201C01B00	490-2917-ND	PV36Y201C01B00	490-2879-ND	PV36W201C01B00	.92	.84	.59
500	490-2944-ND	PV36Z501C01B00	490-2868-ND	PV36P501C01B00	490-2906-ND	PV36X501C01B00	490-2925-ND	PV36Y501C01B00	490-2887-ND	PV36W501C01B00	.92	.84	.59
1K	490-2931-ND	PV36Z102C01B00	490-2855-ND	PV36P102C01B00	490-2893-ND	PV36X102C01B00	490-2912-ND	PV36Y102C01B00	490-2874-ND	PV36W102C01B00	.92	.84	.59
2K	490-2937-ND	PV36Z202C01B00	490-2861-ND	PV36P202C01B00	490-2899-ND	PV36X202C01B00	490-2918-ND	PV36Y202C01B00	490-2880-ND	PV36W202C01B00	.92	.84	.59
5K	490-2945-ND	PV36Z502C01B00	490-2869-ND	PV36P502C01B00	490-2907-ND	PV36X502C01B00	490-2926-ND	PV36Y502C01B00	490-2888-ND	PV36W502C01B00	.92	.84	.59
10K	490-2932-ND	PV36Z103C01B00	490-2856-ND	PV36P103C01B00	490-2894-ND	PV36X103C01B00	490-2913-ND	PV36Y103C01B00	490-2875-ND	PV36W103C01B00	.92	.84	.59
20K	490-2938-ND	PV36Z203C01B00	490-2862-ND	PV36P203C01B00	490-2900-ND	PV36X203C01B00	490-2919-ND	PV36Y203C01B00	490-2881-ND	PV36W203C01B00	.92	.84	.59
25K	490-2941-ND	PV36Z253C01B00	490-2865-ND	PV36P253C01B00	490-2903-ND	PV36X253C01B00	490-2922-ND	PV36Y253C01B00	490-2884-ND	PV36W253C01B00	.92	.84	.59
50K	490-2946-ND	PV36Z503C01B00	490-2870-ND	PV36P503C01B00	490-2908-ND	PV36X503C01B00	490-2927-ND	PV36Y503C01B00	490-2889-ND	PV36W503C01B00	.92	.84	.59
100K	490-2933-ND	PV36Z104C01B00	490-2857-ND	PV36P104C01B00	490-2895-ND	PV36X104C01B00	490-2914-ND	PV36Y104C01B00	490-2876-ND	PV36W104C01B00	.92	.84	.59
200K	490-2939-ND	PV36Z204C01B00	—	PV36P204C01B00	490-2901-ND	PV36X204C01B00	490-2920-ND	PV36Y204C01B00	490-2882-ND	PV36W204C01B00	.92	.84	.59
250K	—	—	490-2866-ND	PV36P254C01B00	—	—	490-2923-ND	PV36Y254C01B00	490-2885-ND	PV36W254C01B00	.92	.84	.59
500K	490-2947-ND	PV36Z504C01B00	490-2871-ND	PV36P504C01B00	490-2909-ND	PV36X504C01B00	490-2928-ND	PV36Y504C01B00	490-2890-ND	PV36W504C01B00	.92	.84	.59
1M	—	—	490-2858-ND	PV36P105C01B00	490-2896-ND	PV36X105C01B00	490-2915-ND	PV36Y105C01B00	490-2877-ND	PV36W105C01B00	.92	.84	.59
2M	—	—	490-2864-ND	PV36P205C01B00	490-2902-ND	PV36X205C01B00	490-2921-ND	PV36Y205C01B00	490-2883-ND	PV36W205C01B00	.92	.84	.59

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Sealed Multi-Turn Trimmer Potentiometers

RoHS COMPLIANT

PV37 Series

Features: • High Resolution, 12-turns cermet • Small size • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Specifications: • Power Rating: 0.25 (85°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 12

Dimensions in mm

Fig. 1

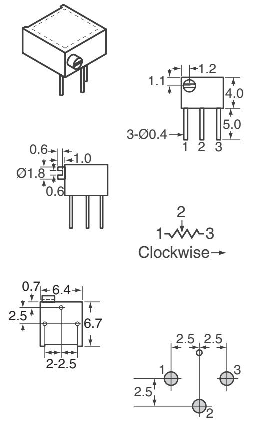

Fig. 2

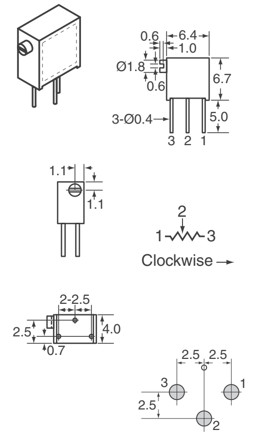

Fig. 3

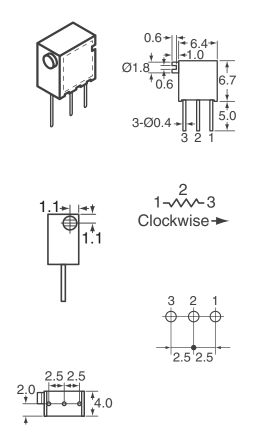

Fig. 4

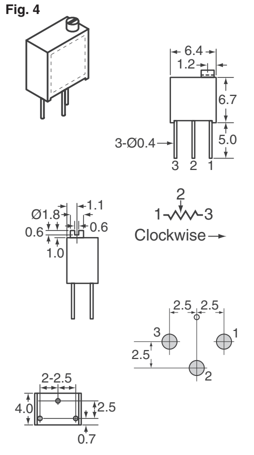

Fig. 5

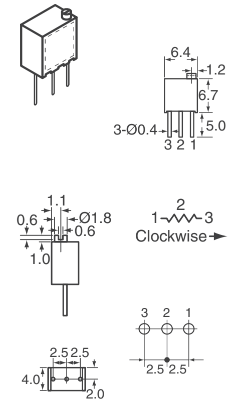

	Side Adjust						Top Adjust						
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5		Price Each		
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	1	10	100
10	490-2948-ND	PV37P100C01B00	490-2986-ND	PV37X100C01B00	—	—	—	—	—	PV37Y100C01B00	1.38	1.26	.89
20	—	—	490-2992-ND	PV37X200C01B00	490-3030-ND	PV37Z200C01B00	490-2973-ND	PV37W200C01B00	—	—	1.38	1.26	.89
50	—	—	—	—	490-3038-ND	PV37Z500C01B00	490-2981-ND	PV37W500C01B00	490-3019-ND	PV37Y500C01B00	1.61	1.46	1.03
100	490-2949-ND	PV37P101C01B00	490-2987-ND	PV37X101C01B00	—	—	490-2968-ND	PV37W101C01B00	490-3006-ND	PV37Y101C01B00	1.38	1.26	.89
200	490-2955-ND	PV37P201C01B00	490-2993-ND	PV37X201C01B00	490-3031-ND	PV37Z201C01B00	490-2974-ND	PV37W201C01B00	490-3012-ND	PV37Y201C01B00	1.38	1.26	.89
500	—	—	490-3001-ND	PV37X501C01B00	490-3039-ND	PV37Z501C01B00	490-2982-ND	PV37W501C01B00	490-3020-ND	PV37Y501C01B00	1.41	1.28	.90
1K	490-2950-ND	PV37P102C01B00	490-2988-ND	PV37X102C01B00	490-3026-ND	PV37Z102C01B00	490-2969-ND	PV37W102C01B00	490-3007-ND	PV37Y102C01B00	1.38	1.26	.89
2K	490-2956-ND	PV37P202C01B00	490-2994-ND	PV37X202C01B00	490-3032-ND	PV37Z202C01B00	490-2975-ND	PV37W202C01B00	490-3013-ND	PV37Y202C01B00	1.38	1.26	.89
5K	490-2964-ND	PV37P502C01B00	490-3002-ND	PV37X502C01B00	490-3040-ND	PV37Z502C01B00	490-2983-ND	PV37W502C01B00	490-3021-ND	PV37Y502C01B00	1.38	1.26	.89
10K	490-2951-ND	PV37P103C01B00	490-2989-ND	PV37X103C01B00	490-3027-ND	PV37Z103C01B00	490-2970-ND	PV37W103C01B00	490-3008-ND	PV37Y103C01B00	1.38	1.26	.89
20K	490-2957-ND	PV37P203C01B00	490-2995-ND	PV37X203C01B00	490-3033-ND	PV37Z203C01B00	490-2976-ND	PV37W203C01B00	490-3014-ND	PV37Y203C01B00	1.38	1.26	.89
25K	490-2960-ND	PV37P253C01B00	490-2998-ND	PV37X253C01B00	490-3036-ND	PV37Z253C01B00	490-2979-ND	PV37W253C01B00	490-3017-ND	PV37Y253C01B00	1.30	1.19	.83
50K	490-2965-ND	PV37P503C01B00	490-3003-ND	PV37X503C01B00	490-3041-ND	PV37Z503C01B00	490-2984-ND	PV37W503C01B00	490-3022-ND	PV37Y503C01B00	1.38	1.26	.89
100K	490-2952-ND	PV37P104C01B00	490-2990-ND	PV37X104C01B00	490-3028-ND	PV37Z104C01B00	490-2971-ND	PV37W104C01B00	490-3009-ND	PV37Y104C01B00	1.38	1.26	.89
200K	—	—	—	—	490-3034-ND	PV37Z204C01B00	490-2977-ND	PV37W204C01B00	—	—	1.30	1.18	.83
250K	490-2961-ND	PV37P254C01B00	490-2999-ND	PV37X254C01B00	490-3037-ND	PV37Z254C01B00	—	—	490-3018-ND	PV37Y254C01B00	1.61	1.46	1.03
500K	490-2966-ND	PV37P504C01B00	490-3004-ND	PV37X504C01B00	490-3042-ND	PV37Z504C01B00	490-2985-ND	PV37W504C01B00	490-3023-ND	PV37Y504C01B00	1.38	1.26	.89
1M	—	—	—	—	490-3029-ND	PV37Z105C01B00	490-2972-ND	PV37W105C01B00	490-3010-ND	PV37Y105C01B00	1.61	1.46	1.03
2M	490-2959-ND	PV37P205C01B00	490-2997-ND	PV37X205C01B00	490-3035-ND	PV37Z205C01B00	490-2978-ND	PV37W205C01B00	490-3016-ND	PV37Y205C01B00	1.61	1.46	1.03

SMD Open Type Trimmer Potentiometers 2mm

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

PVZ2 Series

Features:

- Gold plated termination achieve a high density PCB mounting
- Cross-shaped driver slot allows for in-process automatic adjustment and it provides superior adjustability
- Special resin substrate allow high peak temperature for reflow soldering

Specifications:

- Power Rating: 0.1W (50°C)
- Soldering Method: Reflow
- Number of Turns (Effective Rotation Angle): 1 (240°±10°)
- TCR (ppm/°C): ±500

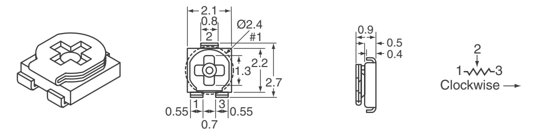

Total Resistance Value (Ω) ±30%	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	T & R Pricing 3,000	Murata Part No.
500	490-2041-1-ND	.76	1.28	11.18	490-2041-2-ND	75.96/M	PVZ2A501A01R00
1k	490-2031-1-ND	.76	1.28	11.18	490-2031-2-ND	75.96/M	PVZ2A102A01R00
3k	490-2038-1-ND	.76	1.28	11.18	490-2038-2-ND	75.96/M	PVZ2A302A01R00
5k	490-2042-1-ND	.76	1.28	11.18	490-2042-2-ND	75.96/M	PVZ2A502A01R00
10k	490-2032-1-ND	.76	1.28	11.18	490-2032-2-ND	75.96/M	PVZ2A103A01R00
20k	490-2036-1-ND	.76	1.28	11.18	490-2036-2-ND	75.96/M	PVZ2A203A01R00
30k	490-2039-1-ND	.76	1.28	11.18	490-2039-2-ND	75.96/M	PVZ2A303A01R00
50k	490-2043-1-ND	.76	1.28	11.18	490-2043-2-ND	75.96/M	PVZ2A503A01R00
100k	490-2033-1-ND	.76	1.28	11.18	490-2033-2-ND	75.96/M	PVZ2A104A01R00
200k	490-2037-1-ND	.76	1.28	11.18	490-2037-2-ND	75.96/M	PVZ2A204A01R00
300k	490-2040-1-ND	.76	1.28	11.18	490-2040-2-ND	75.96/M	PVZ2A304A01R00
500k	490-2044-1-ND	.76	1.28	11.18	490-2044-2-ND	75.96/M	PVZ2A504A01R00
1M	490-2034-1-ND	.76	1.28	11.18	490-2034-2-ND	75.96/M	PVZ2A105A01R00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Open Type Trimmer Potentiometers 3mm

PVZ3A and PVZ3G Series

Dimensions in mm

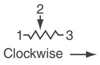

Features: • Excellent solderability characteristics are achieved via special plating techniques on each termination • Specially designed substrate prevents wicking of flux onto the top of the part body • Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting • Funnel shaped adjustment slot allows for in-process automatic adjustment • Standard position of driver plate is adjusted at the center • Products meets Pb-free

Specifications: • Power Rating: 0.1W (50°C) • Soldering Method: Reflow • Number of Turns (Effective Rotation Angle): 1 (230°±10°) • TCR (ppm/°C): ±500

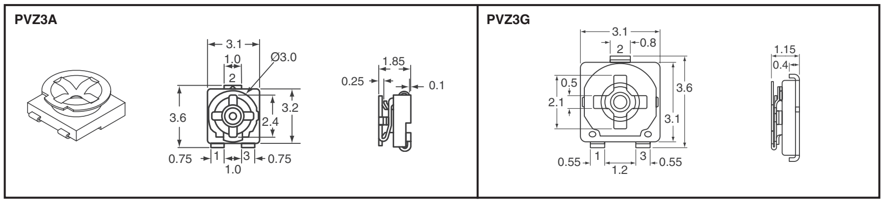

Total Resistance Value (Ω) ±30%	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
PVZ3A Series								
300k	490-2026-1-ND	.55	.94	8.16	490-2026-2-ND	2,000	56.00/M	PVZ3A304A01R00
2M	490-2022-1-ND	.55	.94	8.16	—	—	—	PVZ3A205A01R00
PVZ3G Series								
220	490-4618-1-ND	.55	.94	8.16	490-4618-2-ND	2,500	55.42/M	PVZ3G221C01R00
330	490-4623-1-ND	.55	.94	8.16	490-4623-2-ND	2,500	55.42/M	PVZ3G331C01R00
470	490-4627-1-ND	.62	1.05	9.12	490-4627-2-ND	2,500	61.94/M	PVZ3G471C01R00
680	490-4631-1-ND	.55	.94	8.16	490-4631-2-ND	2,500	55.42/M	PVZ3G681C01R00
1k	490-4610-1-ND	.62	1.05	9.12	490-4610-2-ND	2,500	61.94/M	PVZ3G102C01R00
1.5k	490-4614-1-ND	.55	.94	8.16	490-4614-2-ND	2,500	55.42/M	PVZ3G152C01R00
2.2k	490-4619-1-ND	.54	.92	8.04	490-4619-2-ND	2,500	55.00/M	PVZ3G222C01R00
3.3k	490-4624-1-ND	.55	.94	8.16	490-4624-2-ND	2,500	55.42/M	PVZ3G332C01R00
4.7k	490-4628-1-ND	.68	1.14	9.98	490-4628-2-ND	2,500	68.00/M	PVZ3G472C01R00
10k	490-4611-1-ND	.74	1.25	10.90	490-4611-2-ND	2,500	74.00/M	PVZ3G103C01R00
15k	490-4615-1-ND	.57	.97	8.47	490-4615-2-ND	2,500	57.54/M	PVZ3G153C01R00
22k	490-4620-1-ND	.55	.94	8.16	490-4620-2-ND	2,500	55.42/M	PVZ3G223C01R00
33k	490-4625-1-ND	.62	1.05	9.12	490-4625-2-ND	2,500	62.00/M	PVZ3G333C01R00
47k	490-4629-1-ND	.68	1.14	9.98	490-4629-2-ND	2,500	67.81/M	PVZ3G473C01R00
68k	490-4633-1-ND	.55	.94	8.16	490-4633-2-ND	2,500	55.42/M	PVZ3G683C01R00
100k	490-4612-1-ND	.50	.85	7.44	490-4612-2-ND	2,500	51.00/M	PVZ3G104C01R00
150k	490-4616-1-ND	.55	.94	8.16	490-4616-2-ND	2,500	55.42/M	PVZ3G154C01R00
220k	490-4621-1-ND	.55	.94	8.16	490-4621-2-ND	2,500	55.42/M	PVZ3G224C01R00
330k	490-4626-1-ND	.55	.94	8.16	490-4626-2-ND	2,500	55.42/M	PVZ3G334C01R00
470k	490-4630-1-ND	.68	1.14	9.98	490-4630-2-ND	2,500	67.81/M	PVZ3G474C01R00
680k	490-4634-1-ND	.55	.94	8.16	490-4634-2-ND	2,500	55.42/M	PVZ3G684C01R00
1M	490-4613-1-ND	.55	.94	8.16	490-4613-2-ND	2,500	57.54/M	PVZ3G105C01R00
1.5M	490-4617-1-ND	.55	.94	8.16	490-4617-2-ND	2,500	55.42/M	PVZ3G155C01R00
2.2M	490-4622-1-ND	.55	.94	8.16	490-4622-2-ND	2,500	55.00/M	PVZ3G225C01R00

Angle Sensing Potentiometer Dust-Proof Type 12mm

SV01 Series

Dimensions in mm

Features: • Dust-proof construction • Compliant to high peak temperature reflow soldering • Excellent resistance materials and high reliability wiper achieves 1M cycles • D formation thru-hole rotor enables to select any kind of gear shape • Ultra-thin size (2.1mm height) • Gold plated terminals without lead

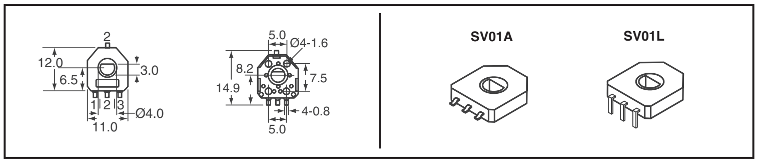

Total Resistance Value (kΩ) ±30%	Linearity ± (%)	Effective Rotational Angle (°) (Ref.)	TCR ± ppm/°C	Rotational Life (Cycles)	Mounting Style	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
10	2	333.3	500	1M	SMD	490-2400-ND	1.35	12.27	114.36	SV01A103AEA01B00
10	2	333.3	500	1M	Thru-Hole	490-3913-ND	1.38	12.57	117.11	SV01L103AEA11T00

Rotary Position Sensors SV01C

Potentiometer and Non-Contacting SV21C Series

Dimensions in mm

Features:

SV01C Series:

- Dust-proof construction • Temperature compensate range -40°C ~ 85°C
- Optimal connector: Connector socket and bushing mount

SV21C Series:

- Non-contacting • Programmable hole IC can be available for optional output voltage curve • Dust-proof construction • Temperature compensate range -20°C ~ 85°C • Optimal connector: Connector socket and bushing mount

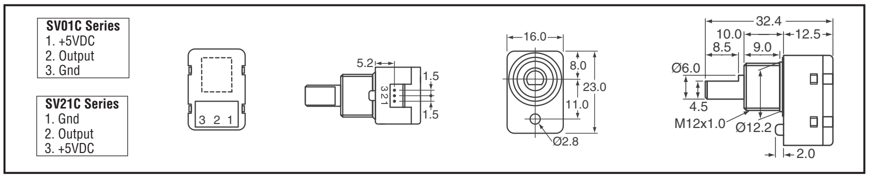

Total Resistance Value (kΩ) ±30%	Action Voltage ±0.5VDC	Linearity ± (%)	Effective Rotational Angle (°) Max.	Rotational Torque Max.	Rotational Life Cycles	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
SV01C Series										
10	5	3	333.3	4mN.m (Ref.; 40gf.cm)	1M	490-4674-ND	6.05	5.50	5.13	SV01C103BJZAEB00
SV21C Series										
—	5	2	200	5mN.m (Ref.; 50gf.cm)	10M	490-4635-ND	35.75	32.50	30.29	SV21C201BJA01B00

See Below for JST Mating Connector

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JST Part No.
3-Position, 1.5mm, Disconnectable Crimp Style ZH Connector	455-1160-ND◆	.43	3.60	14.40	—	—	—	ZHR-3(P)
26-28AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1130-1-ND◆∆	—	1.51	6.02	455-1130-2-ND	13,000	8.01/M	SZH-002T-P0.5
28-32AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1281-1-ND◆∆	—	1.51	6.02	455-1281-2-ND	16,000	8.01/M	SZH-003T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND		466.56/1		—	—	—	WC-491
Crimp Tool with Die for 28-32AWG Contacts	455-1259-ND		466.56/1		—	—	—	WC-490

◆ *RoHS Compliant* ∆ Cut Tape

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COPAL ELECTRONICS Cermet Potentiometers

Model ST2 *Surface Mount, 2mm Squared Single-Turn*

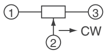

FEATURES: • Lead-free soldering • Cadmium-free • Compact and low-profile • Sealed Construction (Washable) **ELECTRICAL: Resistance Tolerance:** ±20% **Temperature Coefficient:** ±150 ppm/°C **Power Ratings:** 0.1W at 70°C; 0W at 125°C **Input Voltage Maximum:** 50VDC or power rating, whichever is less **Wiper Current Maximum:** Power Ratings (I = $\sqrt{P/R}$ A) **Effective Electrical Angle:** 240° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 2% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute **MECHANICAL: Mechanical Angle:** 270° (1 turn) **Maximum Operating Torque:** 5mN.m (51 gf.cm) **Minimum Stop Strength:** 8mN.m (78.4 gf.cm) **Rotational Life:** 50 cycles (Δ R/R ≤ (2 Ω +5%)) **Solderability:** 245 ±3°C, 2~3 seconds

ST2A – J Lead, Top Adjustment

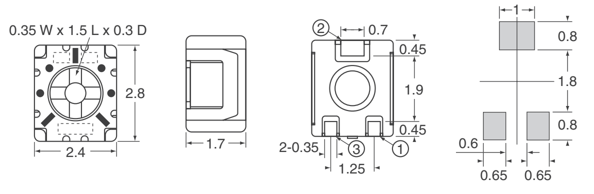

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	ST2TA101CT-ND	2.94	2.73	2.48	ST2TA101TR-ND	1030.00
500	ST2TA501CT-ND	2.94	2.73	2.48	ST2TA501TR-ND	1030.00
1K	ST2TA102CT-ND	2.94	2.73	2.48	ST2TA102TR-ND	1030.00
10K	ST2TA103CT-ND	2.94	2.73	2.48	ST2TA103TR-ND	1030.00
50K	ST2TA503CT-ND	2.94	2.73	2.48	ST2TA503TR-ND	1030.00
100K	ST2TA104CT-ND	2.94	2.73	2.48	ST2TA104TR-ND	1030.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM3/31 *Surface Mount, 3mm Squared Multi-Turn*

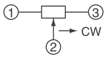

FEATURES: • Lead-free soldering • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) **ELECTRICAL: Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** ±100 ppm/°C **Power Ratings:** 0.125W at 70°C; 0W at 150°C **Input Voltage Maximum:** 200VDC or power rating, whichever is less **Wiper Current Maximum:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 11 turns (SM3); 5 turns (SM31) **End Resistance:** 1% or 3Ω, whichever is greater **Contact Resistance Variation:** 3% or 3Ω, whichever is greater **Operating Temperature Range:** -65°C ~ 150°C **Minimum Insulation Resistance:** 100MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute **MECHANICAL: Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles (Δ R/R ≤ ± (2Ω +3%)) **Minimum Thrust to Shaft:** 5N (0.51kgf) **Solderability:** 245 ±3°C, 2~3 seconds

SM3/31TW – J Lead, Top Adjustment

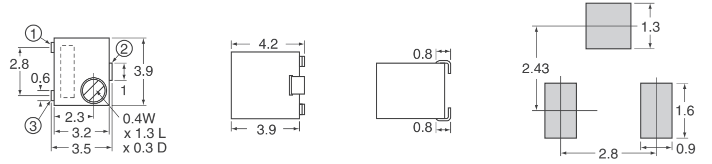

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	SM-3TW101CT-ND	2.82	2.62	2.38	SM-3TW101TR-ND	988.80
200	SM-3TW201CT-ND	2.82	2.62	2.38	SM-3TW201TR-ND	988.80
500	SM-3TW501CT-ND	2.82	2.62	2.38	SM-3TW501TR-ND	988.80
1K	SM-3TW102CT-ND	2.82	2.62	2.38	SM-3TW102TR-ND	988.80
2K	SM-3TW202CT-ND	2.82	2.62	2.38	SM-3TW202TR-ND	988.80
5K	SM-3TW502CT-ND	2.82	2.62	2.38	SM-3TW502TR-ND	988.80
10K	SM-3TW103CT-ND	2.82	2.62	2.38	SM-3TW103TR-ND	988.80
20K	SM-3TW203CT-ND	2.82	2.62	2.38	SM-3TW203TR-ND	988.80
50K	SM-3TW503CT-ND	2.82	2.62	2.38	SM-3TW503TR-ND	988.80
100K	SM-3TW104CT-ND	2.82	2.62	2.38	SM-3TW104TR-ND	988.80
500	SM-31TW501CT-ND	2.54	2.37	2.14	SM-31TW501TR-ND	890.95
1K	SM-31TW102CT-ND	2.54	2.37	2.14	SM-31TW102TR-ND	890.95
2K	SM-31TW202CT-ND	2.54	2.37	2.14	SM-31TW202TR-ND	890.95
5K	SM-31TW502CT-ND	2.54	2.37	2.14	SM-31TW502TR-ND	890.95
10K	SM-31TW103CT-ND	2.54	2.37	2.14	SM-31TW103TR-ND	890.95
20K	SM-31TW203CT-ND	2.54	2.37	2.14	SM-31TW203TR-ND	890.95
50K	SM-31TW503CT-ND	2.54	2.37	2.14	SM-31TW503TR-ND	890.95
100K	SM-31TW104CT-ND	2.54	2.37	2.14	SM-31TW104TR-ND	890.95

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM42/43 *Surface Mount, 4mm Squared Multi-Turn*

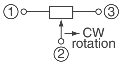

FEATURES:
• Lead free soldering • Fine adjustment • Reflow soldering available • Sealed construction (washable) **ELECTRICAL: • Resistance Tolerance:** ±10% • **Maximum Temperature Coefficient:** ±100 ppm/10°C Maximum • **Power Ratings:** .25W@85°C, 0W @150°C • **Maximum Input Voltage:** 300VDC or power rating, whichever is less • **Maximum Wiper Current:** 100mA or power rating, whichever is smaller • **Effective Electrical Turn:** 11 turns (SM42); 5 turns (SM43) • **End Resistance:** 1% or 2Ω, whichever is greater • **Contact Resistance Variation**: 1% or 3Ω, whichever is greater • **Operating Temperature Range:** -65°C ~ 150°C • **Minimum Insulation Resistance:** 100MΩ @ 500VDC • **Dielectric Strength:** 600VAC for 1 minute **MECHANICAL: • Maximum Operating Torque**: 17.6mN per meter (180gf·cm) • **Mechanical Stop:** Clutch action • **Rotational Life:** 200 cycles (Δ R/R ≤ ±3Ω +3%)

SM42/43TA – J Lead, Side Adjustment

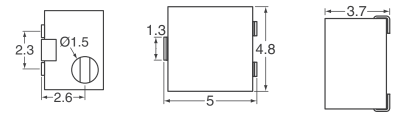

SM42/43TW – J Lead, Top Adjustment

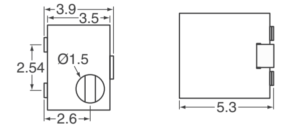

SM42TX – Gullwing, Top Adjustment

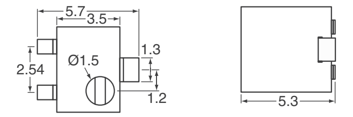

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Pricing
SM-42TA – J-Lead, Side Adjustment						
50	SM-42TA500CT-ND	2.79	2.60	2.35	500	978.50
100	SM-42TA101CT-ND	2.79	2.60	2.35	500	978.50
200	SM-42TA201CT-ND	2.79	2.60	2.35	500	978.50
500	SM-42TA501CT-ND	2.79	2.60	2.35	500	978.50
1K	SM-42TA102CT-ND	2.79	2.60	2.35	500	978.50
2K	SM-42TA202CT-ND	2.79	2.60	2.35	500	978.50
5K	SM-42TA502CT-ND	2.79	2.60	2.35	500	978.50
10K	SM-42TA103CT-ND	2.79	2.60	2.35	500	978.50
20K	SM-42TA203CT-ND	2.79	2.60	2.35	500	978.50
50K	SM-42TA503CT-ND	2.79	2.60	2.35	500	978.50
100K	SM-42TA104CT-ND	2.79	2.60	2.35	500	978.50
200K	SM-42TA204CT-ND	2.79	2.60	2.35	500	978.50
500K	SM-42TA504CT-ND	2.79	2.60	2.35	500	978.50
1 Meg	SM-42TA105CT-ND	2.79	2.60	2.35	500	978.50
2 Meg	SM-42TA205CT-ND	2.79	2.60	2.35	500	978.50
SM-43TA – J-Lead, Side Adjustment						
100K	SM-43TA104CT-ND	2.41	2.24	2.03	500	844.60
200K	SM-43TA204CT-ND	2.41	2.24	2.03	500	844.60
SM-42TW – J-Lead, Top Adjustment						
50	SM-42TW500CT-ND	2.79	2.60	2.35	250	574.87
100	SM-42TW101CT-ND	2.79	2.60	2.35	250	574.87
200	SM-42TW201CT-ND	2.79	2.60	2.35	250	574.87
500	SM-42TW501CT-ND	2.79	2.60	2.35	250	574.87
1K	SM-42TW102CT-ND	2.79	2.60	2.35	250	574.87
2K	SM-42TW202CT-ND	2.79	2.60	2.35	250	574.87
5K	SM-42TW502CT-ND	2.79	2.60	2.35	250	574.87
10K	SM-42TW103CT-ND	2.79	2.60	2.35	250	574.87
20K	SM-42TW203CT-ND	2.79	2.60	2.35	250	574.87
50K	SM-42TW503CT-ND	2.79	2.60	2.35	250	574.87
100K	SM-42TW104CT-ND	2.79	2.60	2.35	250	574.87
200K	SM-42TW204CT-ND	2.79	2.60	2.35	250	574.87
500K	SM-42TW504CT-ND	2.79	2.60	2.35	250	574.87
1 Meg	SM-42TW105CT-ND	2.79	2.60	2.35	250	574.87
2 Meg	SM-42TW205CT-ND	2.79	2.60	2.35	250	574.87
SM-43TW – J-Lead, Top Adjustment						
100	SM-43TW101CT-ND	2.41	2.24	2.03	250	496.20
200	SM-43TW201CT-ND	1.69	1.61	1.44	250	337.84
500	SM-43TW501CT-ND	2.41	2.24	2.03	250	496.20
1K	SM-43TW102CT-ND	2.41	2.24	2.03	250	496.20
2K	SM-43TW202CT-ND	2.41	2.24	2.03	250	496.20
5.0K	SM-43TW502CT-ND	2.41	2.24	2.03	250	496.20
10K	SM-43TW103CT-ND	2.41	2.24	2.03	250	496.20
20K	SM-43TW203CT-ND	2.41	2.24	2.03	250	496.20
50K	SM-43TW503CT-ND	2.41	2.24	2.03	250	496.20
100K	SM-43TW104CT-ND	2.41	2.24	2.03	250	496.20
200K	SM-43TW204CT-ND	1.69	1.61	1.44	250	337.84
500K	SM-43TW504CT-ND	2.41	2.24	2.03	250	496.20
1 Meg	SM-43TW105CT-ND	1.69	1.61	1.44	—	—
SM-42TX – Gullwing, Top Adjustment						
50	SM-42TX500CT-ND	2.85	2.65	2.40	250	586.97
100	SM-42TX101CT-ND	2.85	2.65	2.40	250	586.97
500	SM-42TX501CT-ND	2.85	2.65	2.40	250	586.97
1K	SM-42TX102CT-ND	2.85	2.65	2.40	250	586.97
2K	SM-42TX202CT-ND	2.85	2.65	2.40	250	586.97
5K	SM-42TX502CT-ND	2.85	2.65	2.40	250	586.97
10K	SM-42TX103CT-ND	2.85	2.65	2.40	250	586.97
20K	SM-42TX203CT-ND	2.85	2.65	2.40	250	586.97
50K	SM-42TX503CT-ND	2.85	2.65	2.40	250	586.97
100K	SM-42TX104CT-ND	2.85	2.65	2.40	250	586.97
1 Meg	SM-42TX105CT-ND	2.85	2.65	2.40	250	586.97

Units Marked with Resistance Code and 2-Digit Date Code. † For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Model ST4 *Surface Mount, 4mm Squared Single-Turn*

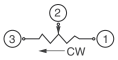

FEATURES:

• Lead-free soldering • Cadmium-free • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) • Stopper structure prevents terminal pin from being open • Cross slot rotor suitable for automatic adjustment

ELECTRICAL:

Resistance Tolerance: ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210°C (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute **MECHANICAL: Mechanical Angle:** 240° (1 turn) **Maximum Operating Torque:** 10mN.m (102gf.cm) **Minimum Stop Strength:** 30mN.m (306gf.cm) **Rotational Life:** 100 cycles, (Δ R/R ≤ ± (2Ω +3%))

ST4ETA - J Lead, Top Adjustment

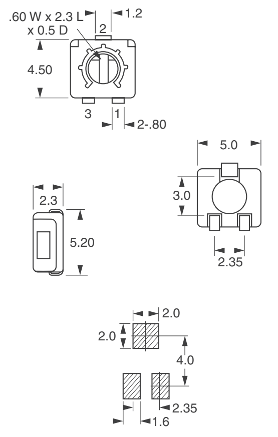

ST4ETB - Gull Wing, Top Adjustment

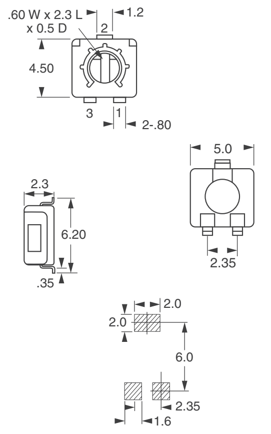

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
50	ST4ETA500CT-ND	ST4ETB500CT-ND	1.07	1.00	.91	ST4ETA500TR-ND	ST4ETB500TR-ND	375.95
100	ST4ETA101CT-ND	ST4ETB101CT-ND	1.07	1.00	.91	ST4ETA101TR-ND	ST4ETB101TR-ND	375.95
200	ST4ETA201CT-ND	ST4ETB201CT-ND	1.07	1.00	.91	ST4ETA201TR-ND	ST4ETB201TR-ND	375.95
500	ST4ETA501CT-ND	ST4ETB501CT-ND	1.07	1.00	.91	ST4ETA501TR-ND	ST4ETB501TR-ND	375.95
1K	ST4ETA102CT-ND	ST4ETB102CT-ND	1.07	1.00	.91	ST4ETA102TR-ND	ST4ETB102TR-ND	375.95
2K	ST4ETA202CT-ND	ST4ETB202CT-ND	1.07	1.00	.91	ST4ETA202TR-ND	ST4ETB202TR-ND	375.95
5K	ST4ETA502CT-ND	ST4ETB502CT-ND	1.07	1.00	.91	ST4ETA502TR-ND	ST4ETB502TR-ND	375.95
10K	ST4ETA103CT-ND	ST4ETB103CT-ND	1.07	1.00	.91	ST4ETA103TR-ND	ST4ETB103TR-ND	375.95
20K	ST4ETA203CT-ND	ST4ETB203CT-ND	1.07	1.00	.91	ST4ETA203TR-ND	ST4ETB203TR-ND	375.95
50K	ST4ETA503CT-ND	ST4ETB503CT-ND	1.07	1.00	.91	ST4ETA503TR-ND	ST4ETB503TR-ND	375.95
100K	ST4ETA104CT-ND	ST4ETB104CT-ND	1.07	1.00	.91	ST4ETA104TR-ND	ST4ETB104TR-ND	375.95
200K	ST4ETA204CT-ND	ST4ETB204CT-ND	1.07	1.00	.91	ST4ETA204TR-ND	ST4ETB204TR-ND	375.95
500K	ST4ETA504CT-ND	—	1.07	1.00	.91	ST4ETA504TR-ND	—	375.95
1 Meg	ST4ETA105CT-ND	—	1.07	1.00	.91	ST4ETA105TR-ND	—	375.95

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST5 *Surface Mount, 6mm Squared Multi-Turn*

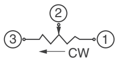

FEATURES:

• Lead-free soldering • Cadmium-free • Precise Adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable)

ELECTRICAL:

Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 85°C, 0W at 120°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 11 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute **MECHANICAL: Mechanical Turn:** 14 turns **Maximum Operating Torque:** 20mN.m (204gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, 10Ω ~ 200Ω (Δ R/R ≤ ± (0.5Ω +3%)), 500Ω ~ 2MΩ (Δ R/R ≤ ± (0.5Ω +2%))

ST5ETP - Gull Wing, Side Adjustment

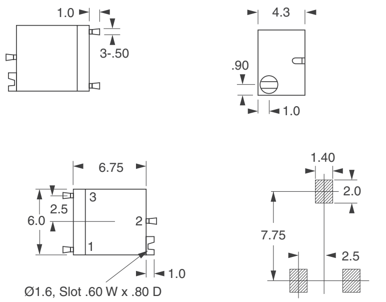

ST5ETW - Gull Wing, Top Adjustment

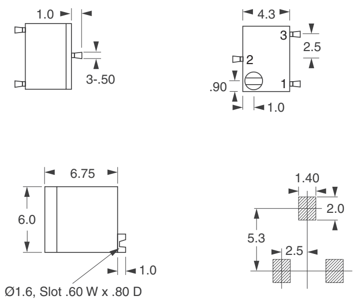

ST5ETX - Gull Wing, Side Adjustment

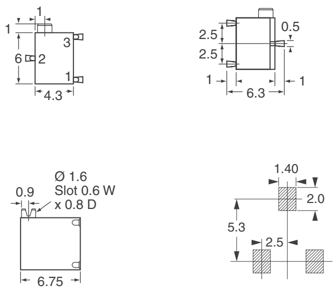

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
100	—	ST5ETW101CT-ND	—	3.14	2.93	2.65	—	ST5ETW101TR-ND	—	1102.10
500	—	ST5ETW501CT-ND	—	3.14	2.93	2.65	—	ST5ETW501TR-ND	—	1102.10
1K	ST5ETP102CT-ND	ST5ETW102CT-ND	ST5ETX102CT-ND	3.14	2.93	2.65	ST5ETP102TR-ND	ST5ETW102TR-ND	ST5ETX102TR-ND	1102.10
2K	ST5ETP202CT-ND	ST5ETW202CT-ND	—	3.14	2.93	2.65	ST5ETP202TR-ND	ST5ETW202TR-ND	—	1102.10
5K	ST5ETP502CT-ND	ST5ETW502CT-ND	ST5ETX502CT-ND	3.14	2.93	2.65	ST5ETP502TR-ND	ST5ETW502TR-ND	ST5ETX502TR-ND	1102.10
10K	ST5ETP103CT-ND	ST5ETW103CT-ND	ST5ETX103CT-ND	3.14	2.93	2.65	ST5ETP103TR-ND	ST5ETW103TR-ND	ST5ETX103TR-ND	1102.10
20K	ST5ETP203CT-ND	ST5ETW203CT-ND	ST5ETX203CT-ND	3.14	2.93	2.65	ST5ETP203TR-ND	ST5ETW203TR-ND	—	1102.10
50K	ST5ETP503CT-ND	ST5ETW503CT-ND	ST5ETX503CT-ND	3.14	2.93	2.65	ST5ETP503TR-ND	ST5ETW503TR-ND	ST5ETX503TR-ND	1102.10
100K	ST5ETP104CT-ND	ST5ETW104CT-ND	ST5ETX104CT-ND	3.14	2.93	2.65	ST5ETP104TR-ND	ST5ETW104TR-ND	ST5ETX104TR-ND	1102.10

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Model ST7 *Surface Mount, 7mm Squared Multi-Turn*

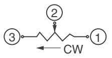

FEATURES: • Lead-free soldering • Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable)

ELECTRICAL: Resistance Tolerance: ±20% **Maximum Temperature Coefficient:** 100Ω ~ 1MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 2.5 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: Mechanical Turn: 3 turns **Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 100 cycles, (Δ R/R ≤ ± (2Ω +3%))

ST7ETA - J Lead, Top Adjustment

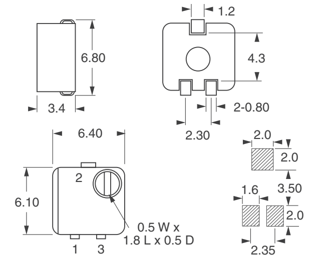

ST7ETB - Gull Wing, Top Adjustment

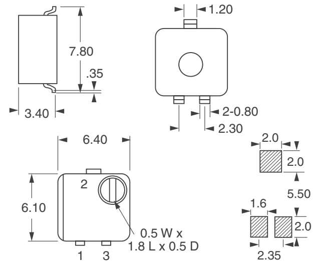

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
1K	ST7ETA102CT-ND	ST7ETB102CT-ND	5.81	5.41	4.90	ST7ETA102TR-ND	ST7ETB102TR-ND	2039.40
2K	ST7ETA202CT-ND	ST7ETB202CT-ND	4.28	4.07	3.64	ST7ETA202TR-ND	ST7ETB202TR-ND	2039.40
5K	ST7ETA502CT-ND	ST7ETB502CT-ND	5.81	5.41	4.90	ST7ETA502TR-ND	ST7ETB502TR-ND	2039.40
10K	ST7ETA103CT-ND	—	5.81	5.41	4.90	ST7ETA103TR-ND	—	2039.40
20K	ST7ETA203CT-ND	ST7ETB203CT-ND	5.81	5.41	4.90	ST7ETA203TR-ND	ST7ETB203TR-ND	2039.40
100K	ST7ETA104CT-ND	ST7ETB104CT-ND	5.81	5.41	4.90	ST7ETA104TR-ND	ST7ETB104TR-ND	2039.40

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST-32 *Surface Mount, 3mm Squared Single-Turn*

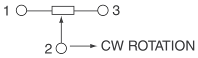

FEATURES: • Lead-free soldering • Cadmium-free • Top adjustment style • Rotor with a cross slot for ease of adjustment • Leaded terminals provide strong as adhesive strength against P.C.B. bending • J-hook and Gull wing configurations • Sealed/Washable

ELECTRICAL: Resistance Tolerance: ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.125W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute

MECHANICAL: Mechanical Angle: 250° (1 turn) **Maximum Operating Torque:** 5mN.m (51gf.cm) **Minimum Stop Strength:** 20mN.m (204gf.cm) **Rotational Life:** 100 cycles (Δ R/R ≤ ± (2Ω +3%))

ST32ETA - J Lead, Top Adjustment

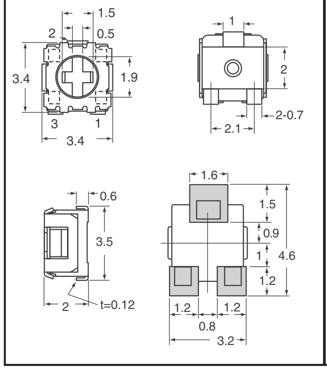

ST32ETB - Gull Wing, Top Adjustment

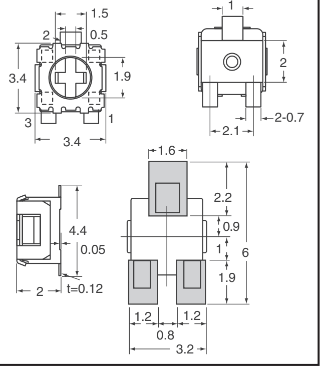

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
50	ST32ETA500CT-ND	—	1.12	1.04	.94	ST32ETA500TR-ND	—	391.40
100	ST32ETA101CT-ND	ST32ETB101CT-ND	1.12	1.04	.94	ST32ETA101TR-ND	ST32ETB101TR-ND	391.40
200	ST32ETA201CT-ND	ST32ETB201CT-ND	1.12	1.04	.94	ST32ETA201TR-ND	ST32ETB201TR-ND	391.40
500	ST32ETA501CT-ND	ST32ETB501CT-ND	1.12	1.04	.94	ST32ETA501TR-ND	ST32ETB501TR-ND	391.40
1K	ST32ETA102CT-ND	ST32ETB102CT-ND	1.12	1.04	.94	ST32ETA102TR-ND	ST32ETB102TR-ND	391.40
2K	ST32ETA202CT-ND	ST32ETB202CT-ND	1.12	1.04	.94	ST32ETA202TR-ND	ST32ETB202TR-ND	391.40
5K	ST32ETA502CT-ND	ST32ETB502CT-ND	1.12	1.04	.94	ST32ETA502TR-ND	ST32ETB502TR-ND	391.40
10K	ST32ETA103CT-ND	ST32ETB103CT-ND	1.12	1.04	.94	ST32ETA103TR-ND	ST32ETB103TR-ND	391.40
20K	ST32ETA203CT-ND	ST32ETB203CT-ND	1.12	1.04	.94	ST32ETA203TR-ND	ST32ETB203TR-ND	391.40
50K	ST32ETA503CT-ND	ST32ETB503CT-ND	1.12	1.04	.94	ST32ETA503TR-ND	ST32ETB503TR-ND	391.40
100K	ST32ETA104CT-ND	ST32ETB104CT-ND	1.12	1.04	.94	ST32ETA104TR-ND	ST32ETB104TR-ND	391.40
200K	ST32ETA204CT-ND	—	1.12	1.04	.94	ST32ETA204TR-ND	—	391.40
500K	ST32ETA504CT-ND	—	1.12	1.04	.94	ST32ETA504TR-ND	—	391.40
1Meg	ST32ETA105CT-ND	ST32ETB105CT-ND	1.12	1.04	.94	ST32ETA105TR-ND	—	391.40

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT6 *6mm Squared Single Turn*

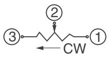

FEATURES: • Lead-free soldering • Cadmium-free • Various configurations • "O" ring sealed and washable

ELECTRICAL: Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 220° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL: Mechanical Angle: 260° (1 turn) **Operating Torque:** 2~20mN.m (20~204gf.cm) **Minimum Stop Strength:** 50mN.m (510gf.cm) **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%)) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT6EP - Top Adjustment

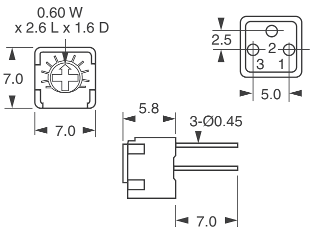

CT6ER - Top Adjustment

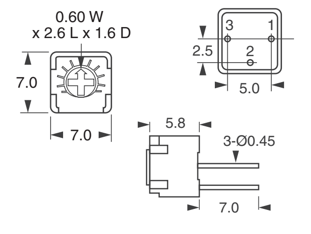

CT6EW - Top Adjustment

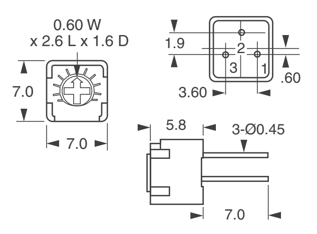

CT6EX - Side Adjustment

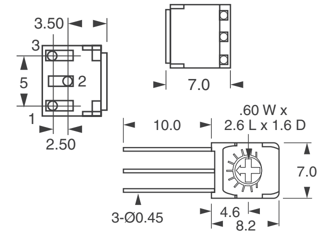

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EP500-ND	.65	.61	.55	.47	.42
100	CT6EP101-ND	.65	.61	.55	.47	.42
200	CT6EP201-ND	.65	.61	.55	.47	.42
500	CT6EP501-ND	.65	.61	.55	.47	.42
1K	CT6EP102-ND	.65	.61	.55	.47	.42
2K	CT6EP202-ND	.65	.61	.55	.47	.42
5K	CT6EP502-ND	.65	.61	.55	.47	.42
10K	CT6EP103-ND	.65	.61	.55	.47	.42
20K	CT6EP203-ND	.65	.61	.55	.47	.42
50K	CT6EP503-ND	.65	.61	.55	.47	.42
100K	CT6EP104-ND	.65	.61	.55	.47	.42
200K	CT6EP204-ND	.65	.61	.55	.47	.42
500K	CT6EP504-ND	.65	.61	.55	.47	.42
1 Meg	CT6EP105-ND	.65	.61	.55	.47	.42
2 Meg	CT6EP205-ND	.65	.61	.55	.47	.42

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	—	CT6EW500-ND	.73	.68	.61	.52	.47
100	CT6ER101-ND	CT6EW101-ND	.73	.68	.61	.52	.47
200	CT6ER201-ND	CT6EW201-ND	.73	.68	.61	.52	.47
500	CT6ER501-ND	CT6EW501-ND	.73	.68	.61	.52	.47
1K	CT6ER102-ND	CT6EW102-ND	.73	.68	.61	.52	.47
2K	CT6ER202-ND	CT6EW202-ND	.73	.68	.61	.52	.47
5K	CT6ER502-ND	CT6EW502-ND	.73	.68	.61	.52	.47
10K	CT6ER103-ND	CT6EW103-ND	.73	.68	.61	.52	.47
20K	CT6ER203-ND	CT6EW203-ND	.73	.68	.61	.52	.47
50K	CT6ER503-ND	CT6EW503-ND	.73	.68	.61	.52	.47
100K	CT6ER104-ND	CT6EW104-ND	.73	.68	.61	.52	.47
200K	CT6ER204-ND	CT6EW204-ND	.73	.68	.61	.52	.47
500K	CT6ER504-ND	CT6EW504-ND	.73	.68	.61	.52	.47
1 Meg	CT6ER105-ND	CT6EW105-ND	.73	.68	.61	.52	.47

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EX500-ND	.73	.68	.61	.52	.47
100	CT6EX101-ND	.73	.68	.61	.52	.47
500	CT6EX501-ND	.73	.68	.61	.52	.47
1K	CT6EX102-ND	.73	.68	.61	.52	.47
2K	CT6EX202-ND	.73	.68	.61	.52	.47
5K	CT6EX502-ND	.73	.68	.61	.52	.47
10K	CT6EX103-ND	.73	.68	.61	.52	.47
20K	CT6EX203-ND	.73	.68	.61	.52	.47
50K	CT6EX503-ND	.73	.68	.61	.52	.47
100K	CT6EX104-ND	.73	.68	.61	.52	.47
500K	CT6EX504-ND	.73	.68	.61	.52	.47
2 Meg	CT6EX205-ND	.73	.68	.61	.52	.47

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Model CT94 9mm Squared Multi-Turn

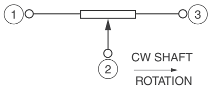

FEATURES: • Lead-free soldering • Cadmium-free • Thin body design • 18 turn, sealed, precision type **ELECTRICAL: Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 125°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute **MECHANICAL: Mechanical Turn:** 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%)) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT94EW - Top Adjustment

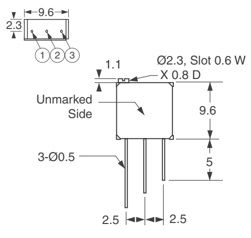

CT94EX - Side Adjustment

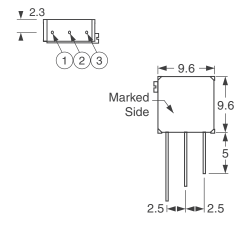

CT94EP - Side Adjustment

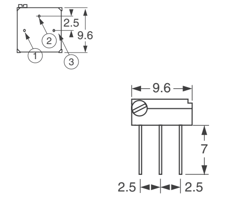

CT94EY - Top Adjustment

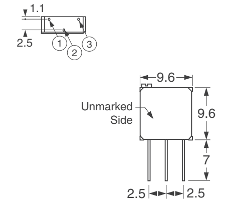

CT94EZ - Side Adjustment

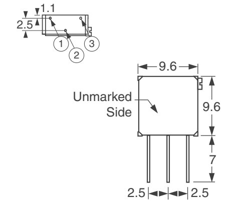

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
50	CT94EW500-ND	—	1.30	1.21	1.09	.93
100	CT94EW101-ND	CT94EX101-ND	1.30	1.21	1.09	.93
200	CT94EW201-ND	—	1.30	1.21	1.09	.93
500	CT94EW501-ND	—	1.30	1.21	1.09	.93
1K	CT94EW102-ND	CT94EX102-ND	1.30	1.21	1.09	.93
2K	CT94EW202-ND	CT94EX202-ND	1.30	1.21	1.09	.93
5K	CT94EW502-ND	CT94EX502-ND	1.30	1.21	1.09	.93
10K	CT94EW103-ND	CT94EX103-ND	1.30	1.21	1.09	.93
20K	CT94EW203-ND	CT94EX203-ND	1.30	1.21	1.09	.93
50K	CT94EW503-ND	CT94EX503-ND	1.30	1.21	1.09	.93
100K	CT94EW104-ND	CT94EX104-ND	1.30	1.21	1.09	.93
200K	CT94EW204-ND	CT94EX204-ND	1.30	1.21	1.09	.93
500K	CT94EW504-ND	CT94EX504-ND	1.30	1.21	1.09	.93
1 Meg	CT94EW105-ND	CT94EX105-ND	1.30	1.21	1.09	.93
2 Meg	CT94EW205-ND	—	1.30	1.21	1.09	.93

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
50	—	CT94EY500-ND	—	1.30	1.21	1.09	.93
100	CT94EP101-ND	CT94EY101-ND	CT94EZ101-ND	1.30	1.21	1.09	.93
200	—	CT94EY201-ND	—	1.30	1.21	1.09	.93
500	CT94EP501-ND	CT94EY501-ND	CT94EZ501-ND	1.30	1.21	1.09	.93
1K	CT94EP102-ND	CT94EY102-ND	CT94EZ102-ND	1.30	1.21	1.09	.93
2K	CT94EP202-ND	CT94EY202-ND	CT94EZ202-ND	1.30	1.21	1.09	.93
5K	CT94EP502-ND	CT94EY502-ND	CT94EZ502-ND	1.30	1.21	1.09	.93
10K	CT94EP103-ND	CT94EY103-ND	CT94EZ103-ND	1.30	1.21	1.09	.93
20K	CT94EP203-ND	CT94EY203-ND	CT94EZ203-ND	1.30	1.21	1.09	.93
50K	CT94EP503-ND	CT94EY503-ND	CT94EZ503-ND	1.30	1.21	1.09	.93
100K	CT94EP104-ND	CT94EY104-ND	CT94EZ104-ND	1.30	1.21	1.09	.93
200K	CT94EP204-ND	CT94EY204-ND	—	1.30	1.21	1.09	.93
500K	CT94EP504-ND	CT94EY504-ND	CT94EZ504-ND	1.30	1.21	1.09	.93
1 Meg	—	CT94EY105-ND	—	1.30	1.21	1.09	.93
2 Meg	—	CT94EY205-ND	—	1.30	1.21	1.09	.93

Units Marked with Resistance Code and 2 Digit Date Code.

Model CT9

9mm Squared Multi-Turn

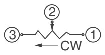

FEATURES:

- Lead-free soldering • Cadmium-free • General use
- Fine setting possible with 18 turn configuration

ELECTRICAL:

Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL:

Mechanical Turn: 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%)) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT9EP - Side Adjustment

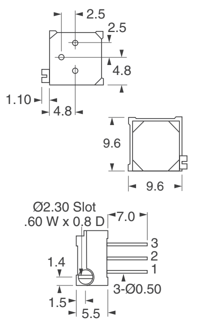

CT9EW - Top Adjustment

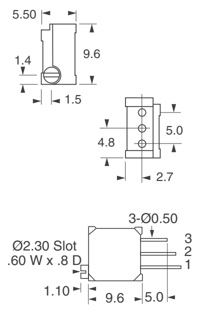

CT9EX - Side Adjustment

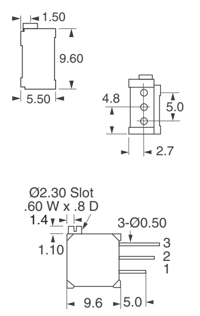

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT9EP102-ND	CT9EW102-ND	CT9EX102-ND	1.79	1.66	1.51	1.28	1.15
2K	CT9EP202-ND	CT9EW202-ND	CT9EX202-ND	1.79	1.66	1.51	1.28	1.15
5K	CT9EP502-ND	CT9EW502-ND	CT9EX502-ND	1.79	1.66	1.51	1.28	1.15
10K	CT9EP103-ND	CT9EW103-ND	CT9EX103-ND	1.79	1.66	1.51	1.28	1.15
20K	CT9EP203-ND	CT9EW203-ND	CT9EX203-ND	1.79	1.66	1.51	1.28	1.15
50K	CT9EP503-ND	CT9EW503-ND	CT9EX503-ND	1.79	1.66	1.51	1.28	1.15
100K	CT9EP104-ND	CT9EW104-ND	CT9EX104-ND	1.79	1.66	1.51	1.28	1.15

Units Marked with Resistance Mark and 2 Digit Date Code.

Model CT20

20mm Rectangular Multi-Turn

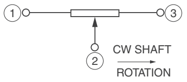

CT20EP - Side Adjustment

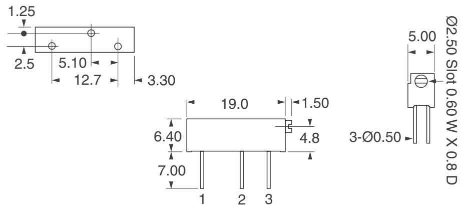

FEATURES: • Lead-free soldering • Cadmium-free • General use

ELECTRICAL: Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 12 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: Mechanical Turn: 15 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, 10Ω ~ 200Ω (Δ R/R ≤ ± (0.5Ω +3%)); 500Ω ~ 5MΩ (Δ R/R ≤ ± (0.5Ω +2%)) **Minimum Terminal Strength:** 9N (917gf) **Solderability:** 245 ±3°C, 2-3 seconds

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT20EP102-ND	1.53	1.42	1.29	1.10	.99
2K	CT20EP202-ND	1.53	1.42	1.29	1.10	.99
5K	CT20EP502-ND	1.53	1.42	1.29	1.10	.99
10K	CT20EP103-ND	1.53	1.42	1.29	1.10	.99
20K	CT20EP203-ND	1.53	1.42	1.29	1.10	.99
50K	CT20EP503-ND	1.53	1.42	1.29	1.10	.99
100K	CT20EP104-ND	1.53	1.42	1.29	1.10	.99

Units Marked with Resistance Mark and 2 Digit Date Code.

SERIES 3302 — 2mm SMD, Trimming Potentiometer 3302W, X

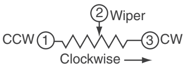

3 Terminals for Automatic Trimming Adjustment Low Profile

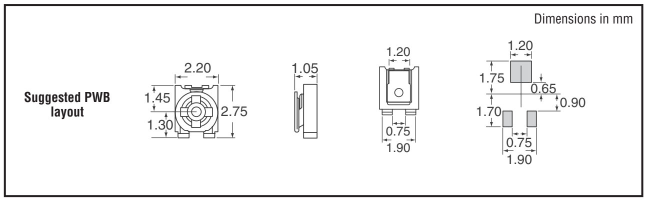

Feature: • Single-Turn Cermet / Open Frame **Characteristics:** • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.15W • **Temperature Range:** -40°C ~ 85°C • **Temperature Coefficient:** ±250ppm/°C • **TRS maximum:** ±5%

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
2K	3302W-202E☐☐-ND	—
5K	3302W-502E☐☐-ND◆	3302X-502E☐☐-ND
10K	3302W-103E☐☐-ND◆	3302X-103E☐☐-ND
20K	3302W-203E☐☐-ND	3302X-203E☐☐-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 3,000
3302W	Add “CT-ND”	.45	3.75	34.50	Add “TR-ND”	225.00/M
3302X	Add “CT-ND”	.45	3.75	34.50	Add “TR-ND”	225.00/M

◆ *RoHS Compliant*

SERIES 3312J — 2mm Square SMD Trimming Potentiometer

Features: • Single-Turn / Sealed **Characteristics:** • **Resistance Tolerance:** ±20% • **Resolution:** Infinite • **Operating Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Mechanical Stop:** 285° nominal

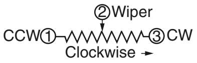

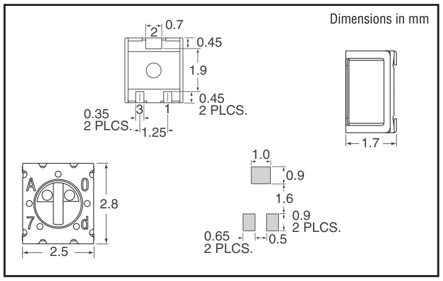

Res. (Ω)	Digi-Key Part No.
10	3312J-1-100E☐☐-ND
20	3312J-1-200E☐☐-ND
50	3312J-1-500E☐☐-ND
100	3312J-1-101E☐☐-ND
200	3312J-1-201E☐☐-ND
500	3312J-1-501E☐☐-ND
1K	3312J-1-102E☐☐-ND
2K	3312J-1-202E☐☐-ND
5K	3312J-1-502E☐☐-ND
10K	3312J-1-103E☐☐-ND
20K	3312J-1-203E☐☐-ND
50K	3312J-1-503E☐☐-ND
100K	3312J-1-104E☐☐-ND
200K	3312J-1-204E☐☐-ND
500K	3312J-1-504E☐☐-ND
1M	3312J-1-105E☐☐-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 500
3312J	Add “CT-ND”	2.52	21.60	187.20	Add “TR-ND”	587.00

SERIES TC73 — Surface Mount 3mm Single-Turn Top Adjust Carbon

Characteristics:

• **Resistance Tolerance:** ±30% • **Adjustment Angle:** 260° • **Power Rating:** .05W • **Temperature Range:** - 25°C ~ 85°C • **Temperature Coefficient:** ±250 ppm/°C • **Rotational Life:** 20 turns • **Rotational Torque:** 10-150g-cm maximum

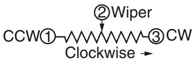

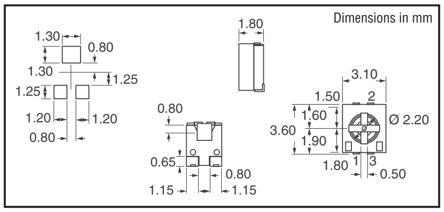

Res. (Ω)	Digi-Key Part No.
1K	TC73X-102E☐☐-ND◆
2K	TC73X-202E☐☐-ND◆
5K	TC73X-502E☐☐-ND◆

Series	Part No.	Cut Tape Pricing 1	10	100
TC73X	Add “CT-ND”	.20	1.65	14.40

◆ *RoHS Compliant*

SERIES 3303 — 3mm SMD, Trimming Potentiometer

Characteristics:

- **Resistance Tolerance:** ±25% standard
- **Contact Resistance Variation:** 5% maximum
- **Resolution:** Infinite • **Adjustment Angle:** 260° ±20°
- **Power Rating (50VDC maximum):** 70°C = 0.15W
- **Temperature Range:** -40°C ~ 125°C
- **Temperature Coefficient:** ±250ppm/°C
- **TRS maximum:** ±5%

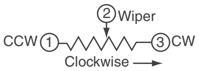

Dimensions in mm

3303C – 3-Terminal Both Sides Adjust

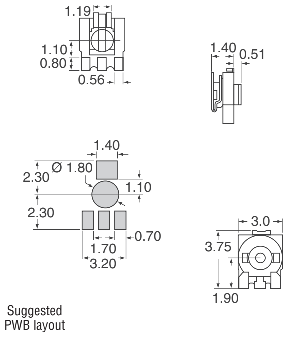

3303W, X – Open Frame for Reflow Soldering 3-Terminal Low Profile

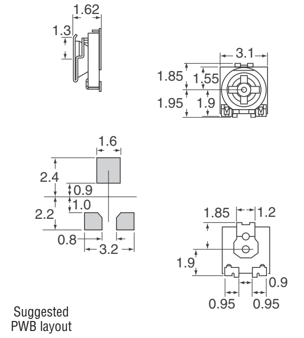

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
500	—	—	3303X-501E☐☐-ND
5K	—	3303W-502E☐☐-ND◆	—
10K	—	3303W-103E☐☐-ND	—
20K	—	3303W-203E☐☐-ND◆	—
50K	3303C-503E☐☐-ND	—	—
100K	—	3303W-104E☐☐-ND	3303X-104E☐☐-ND
1M	3303C-105E☐☐-ND	—	—

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 2,000
3303C	Add “CT”-ND	.60	5.00	46.00	Add “TR”-ND	300.00/M
3303W	Add “CT”-ND	.26	2.13	19.55	Add “TR”-ND	127.50/M
3303X	Add “CT”-ND	.26	2.13	19.55	Add “TR”-ND	127.50/M

◆ *RoHS Compliant*

SERIES TC33X — 3mm SMD Trimming Potentiometer

Characteristics:

• **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Essentially Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.1W • **Temperature Range:** -40°C ~ 120°C • **Temperature Coefficient:** ±250ppm/°C

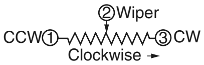

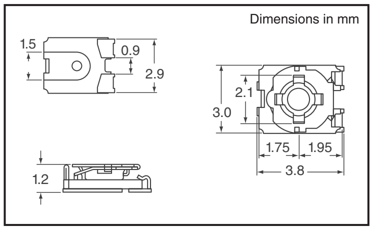

Res. (Ω)	Digi-Key Part No.
100	TC33X-101E☐☐-ND
1K	TC33X-102E☐☐-ND
2K	TC33X-202E☐☐-ND◆
5K	TC33X-502E☐☐-ND◆
10K	TC33X-103E☐☐-ND◆
50K	TC33X-503E☐☐-ND◆
100K	TC33X-104E☐☐-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 2,500
TC33X	Add “CT”-ND	.20	1.65	14.40	Add “TR”-ND	90.00/M

◆ *RoHS Compliant*

SERIES 3223 — Surface Mount 3mm Multi-Turn (11) Cermet/ Industrial/Sealed

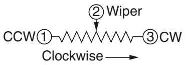

Features:

• Surface Mount 3mm Square/Multi-turn Cermet/Industrial/Sealed • Sealed to withstand standard board wash processing • Pick and place centering design for automated placement compatibility • Flush adjustment screw • Top and side adjust

Characteristics:

• **Resistance Tolerance:** ±20% standard • **Absolute Minimum Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum (whichever is greater) • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating (200V maximum):** 70°C = 0.125W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 70°C Rated Power 1000 Hours):** CRV 4Ω or 4% (whichever is greater) • **Rotational Cycling:** 200 cycles, CRV 4Ω or 4% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±2%

Dim. in mm

3223G

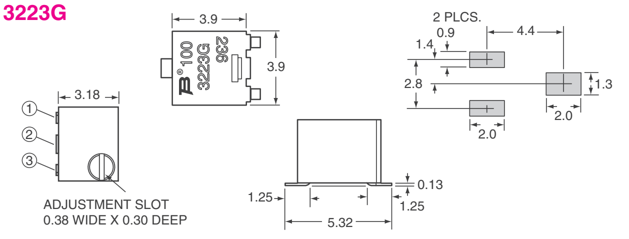

3223J

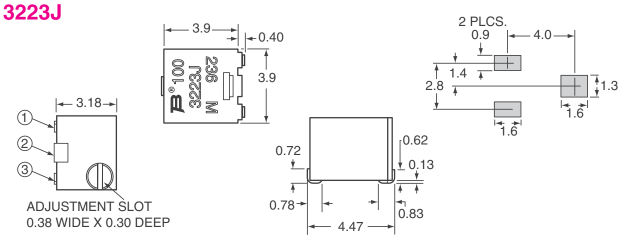

3223W

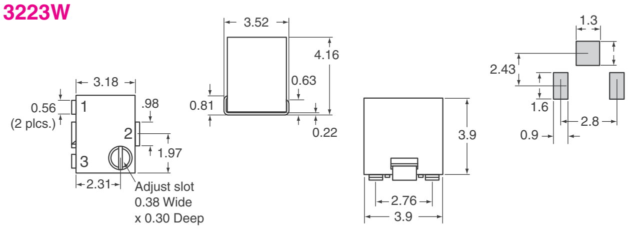

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	—	3223J-1-100ECT-ND◆	3223W-1-100E□□-ND◆
20	—	—	—
50	—	—	3223W-1-500E□□-ND◆
100	—	3223J-1-101ECT-ND◆	3223W-1-101E□□-ND◆
200	3223G-1-201ECT-ND◆	—	3223W-1-201E□□-ND◆
500	3223G-1-501E□□-ND◆	3223J-1-501E□□-ND◆	3223W-1-501E□□-ND◆
1K	3223G-1-102E□□-ND◆	—	3223W-1-102E□□-ND◆
2K	3223G-1-202E□□-ND◆	3223J-1-202E□□-ND◆	3223W-1-202E□□-ND◆
5K	—	3223J-1-502E□□-ND◆	3223W-1-502E□□-ND◆
10K	3223G-1-103E□□-ND◆	3223J-1-103E□□-ND◆	3223W-1-103E□□-ND◆
20K	—	—	3223W-1-203E□□-ND◆
50K	3223G-1-503E□□-ND◆	3223J-1-503E□□-ND◆	3223W-1-503E□□-ND◆
100K	—	—	3223W-1-104E□□-ND◆
200K	—	—	3223W-1-204E□□-ND◆
500K	—	3223J-1-504ECT-ND◆	3223W-1-504E□□-ND◆
1M	—	3223J-1-105ECT-ND◆	3223W-1-105E□□-ND◆
2M	—	—	3223W-1-205E□□-ND

		Cut Tape Pricing				Tape and Reel Pricing
Series	Part No.	1	10	100	Part No.	500
3223G/3223J/3223W	Add “CT”-ND	3.85	33.00	286.00	Add “TR”-ND	896.50

◆ ***RoHS Compliant***

SERIES 3313 — 3mm Trimming Potentiometer

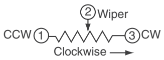

Feature: • Surface Mount 3mm Square Single-Turn Cermet/Sealed

Characteristics: • **Resistance Tolerance:** ±20% standard • **End Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 220° nominal • **Dielectric Strength:** ***Sea level:*** 500VAC; ***70,000 Feet:*** 350VAC • **Power Rating (200V max.):** 70°C = 0.125W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ≤100Ω ±150ppm/°C; >100Ω ±100ppm/°C

Dim. in mm

3313J and 3313X

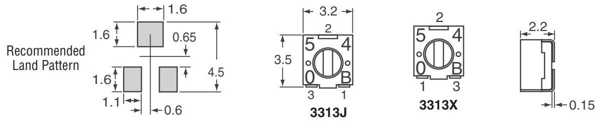

3313S

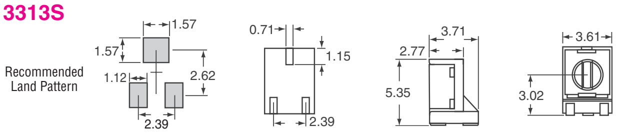

Resolution (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3313J-1-100E□□-ND◆	—	—
20	3313J-1-200E□□-ND◆	3313S-1-200ECT-ND◆	—
50	3313J-1-500E□□-ND◆	—	—
100	3313J-101E□□-ND◆	—	—
200	3313J-201E□□-ND◆	3313S-1-201ECT-ND◆	—
500	3313J-501E□□-ND◆	3313S-1-501E□□-ND◆	—
1K	3313J-102E□□-ND◆	3313S-102E□□-ND	—
2K	3313J-202E□□-ND◆	3313S-1-202E□□-ND◆	—
5K	3313J-502E□□-ND◆	3313S-1-502E□□-ND◆	3313X-502E□□-ND◆
10K	3313J-103E□□-ND◆	3313S-103E□□-ND	3313X-103E□□-ND◆
20K	3313J-203E□□-ND◆	—	—
50K	3313J-503E□□-ND◆	3313S-1-503E□□-ND◆	3313X-503E□□-ND◆
100K	3313J-104E□□-ND◆	3313S-1-104E□□-ND◆	—
200K	3313J-1-204E□□-ND◆	3313S-1-204E□□-ND◆	—
500K	3313J-1-504E□□-ND◆	3313S-1-504E□□-ND◆	—
1MEG	3313J-1-105E□□-ND◆	—	—
2MEG	—	—	—

		Cut Tape Pricing				Tape and Reel Pricing	
Series	Part No.	1	10	100	Part No.	200	1,000
3313J/3313J-1	Add “CT”-ND	1.80	15.00	138.00	Add “TR”-ND	—	900.00
3313S/3313S-1	Add “CT”-ND	1.98	16.50	151.80	Add “TR”-ND	244.20	—
3313X	Add “CT”-ND	1.86	15.50	142.60	Add “TR”-ND	—	992.00

◆ ***RoHS Compliant***

SERIES 3364 — SMD 4mm Square/Single-Turn Cermet/Industrial/Open Frame

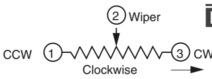

Dim. in mm

3364W and X

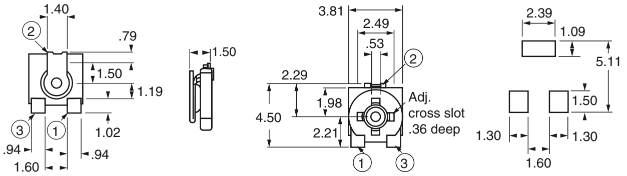

Cross-slot rotor designs suitable for automatic adjustment equipment. Supplied in 12mm embossed tape and compatible with automatic pick-and-place assembly equipment. Rear adjust versions available.

Characteristics: • **Resistance Tolerance:** ±25% standard • **Adjustment Angle:** 260° ±20° • **Power Rating (50V maximum):** 70°C = 0.2W • **Temperature Range:** -40°C ~ 100°C • **Temperature Coefficient:** ±250ppm/°C • **Load Life:** 1,000 hours 0.2W @ 70°C (5% ΔTR) • **Rotational Life:** 20 cycles (15% ΔTR) • **Torque:** 20 ~ 200g-cm. • **Mechanical Angle:** Continuous

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
500	3364W-501E□□-ND◆	3364X-501E□□-ND
1K	3364W-102E□□-ND◆	3364X-102E□□-ND
2K	3364W-202E□□-ND	3364X-202E□□-ND
5K	3364W-502E□□-ND	3364X-502E□□-ND
10K	3364W-103E□□-ND◆	3364X-103E□□-ND◆
20K	3364W -203E□□-ND◆	3364X-203E□□-ND
50K	3364W-503E□□-ND◆	3364X-503E□□-ND◆
100K	3364W-104E□□-ND◆	3364X-104E□□-ND
200K	3364W-204E□□-ND	3364X-204E□□-ND
500K	3364W-504E□□-ND	3364X-504E□□-ND
1M	3364W-105E□□-ND	3364X-105E□□-ND

		Cut Tape Pricing			Tape and Reel Pricing
Series	Part No.	5	100	Part No.	1,000
3364W/3364X	Add “CT”-ND	4.88	65.25	Add “TR”-ND	371.00

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SERIES 3314 — 4mm Square/Single-Turn
Cermet/Industrial/Sealed

Digi-Reel®

Features:

- Compatible with all surface mount soldering processes (Except for 3314H Series) • Very low CRV — 1% • Standoffs facilitate boardwashing and mechanical stability

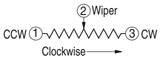

Characteristics:

• **Resistance Tolerance:** ±20% standard • **Insulation Resistance:** 500VDC 100MΩ minimum • **Adjustment Angle:** 210° nominal • **Soldering Heat:** 260°C, 10 seconds, TRS ±1% • **Power Rating (300V maximum):** 70°C = 0.25W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** (@ 70°C Rated Power 1,000 hours) TRS ±3% • **Rotational Life:** 100 cycles TRS ±3% • **Mechanical Angle:** 240° nominal • **Torque:** 180g-cm. typical • **Stop Strength:** 300g-cm. typical

Dim. in mm

3314G

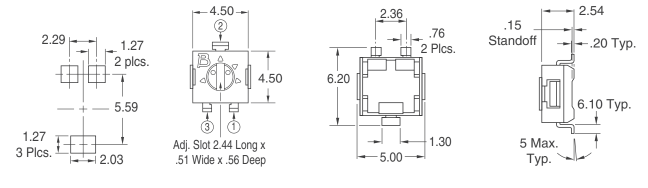

3314H

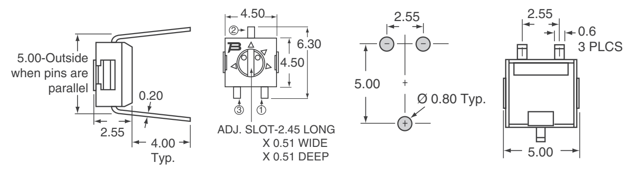
5.00-Outside when pins are parallel
0.20
2.55
4.00
Typ.
4.50
6.30
4.50
ADJ. SLOT-2.45 LONG X 0.51 WIDE X 0.51 DEEP
2.55
5.00
Ø 0.80 Typ.
2.55
0.6
3 PLCS
5.00

3314J

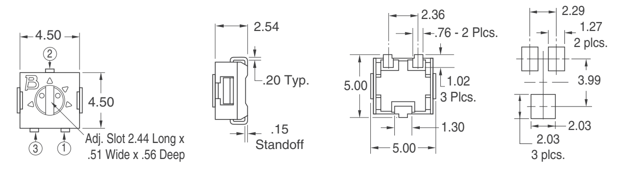

3314R

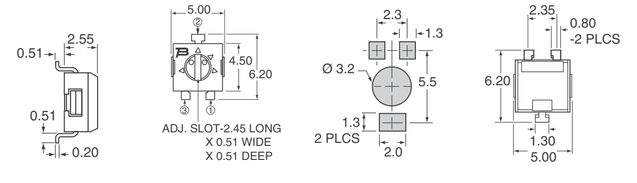

3314S-3

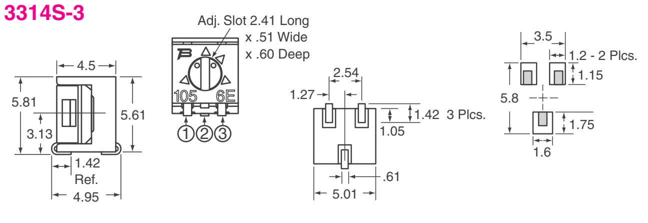

3314Z

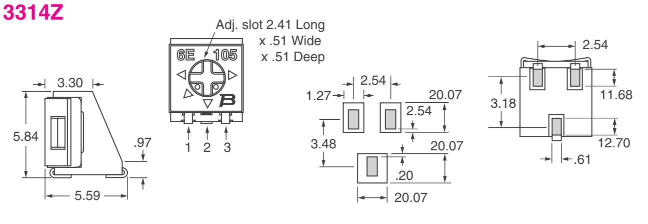

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3314G-1-100E☐☐-ND◆	3314H-1-100-ND◆‡	3314J-1-100E☐☐-ND◆	3314R-1-100ECT-ND◆	—	—
20	3314G-1-200E☐☐-ND◆	—	3314J-1-200E☐☐-ND◆	—	—	3314Z-1-200E☐☐-ND◆
50	3314G-1-500E☐☐-ND◆	3314H-1-500-ND◆‡	3314J-1-500E☐☐-ND◆	—	—	—
100	3314G-101E☐☐-ND◆	3314H-1-101-ND◆‡	3314J-101E☐☐-ND◆	—	—	3314Z-101E☐☐-ND◆
200	3314G-201E☐☐-ND◆	3314H-1-201-ND◆‡	3314J-201E☐☐-ND◆	—	—	3314Z-201E☐☐-ND◆
500	3314G-501E☐☐-ND◆	—	3314J-501E☐☐-ND◆	3314R-1-501E☐☐-ND◆	—	3314Z-501E☐☐-ND
1K	3314G-102E☐☐-ND◆	3314H-1-102-ND◆‡	3314J-102E☐☐-ND◆	3314R-1-102E☐☐-ND◆	—	3314Z-102E☐☐-ND
2K	3314G-202E☐☐-ND◆	3314H-1-202-ND◆‡	3314J-202E☐☐-ND◆	3314R-1-202E☐☐-ND◆	—	3314Z-202E☐☐-ND◆
5K	3314G-502E☐☐-ND◆	3314H-1-502-ND◆‡	3314J-502E☐☐-ND◆	3314R-1-502E☐☐-ND◆	3314S-3-502E☐☐-ND◆	3314Z-502E☐☐-ND◆
10K	3314G-103E☐☐-ND◆	3314H-1-103-ND◆‡	3314J-103E☐☐-ND◆	3314R-1-103E☐☐-ND◆	3314S-3-103E☐☐-ND◆	3314Z-103E☐☐-ND◆
20K	3314G-203E☐☐-ND◆	3314H-1-203-ND◆‡	3314J-203E☐☐-ND◆	—	3314S-3-203ECT-ND◆	3314Z-203E☐☐-ND◆
25K	3314G-253E☐☐-ND◆	—	3314J-253E☐☐-ND◆	—	—	—
50K	3314G-503E☐☐-ND◆	3314H-1-503-ND◆‡	3314J-503E☐☐-ND◆	3314R-1-503E☐☐-ND◆	—	3314Z-503E☐☐-ND◆
100K	3314G-104E☐☐-ND◆	3314H-1-104-ND◆‡	3314J-104E☐☐-ND◆	3314R-1-104E☐☐-ND◆	3314S-3-104E☐☐-ND◆	3314Z-104E☐☐-ND◆
200K	3314G-204E☐☐-ND◆	—	3314J-204E☐☐-ND◆	—	—	3314Z-204E☐☐-ND◆
250K	3314G-254E☐☐-ND◆	—	3314J-254E☐☐-ND◆	3314R-1-254E☐☐-ND◆	—	3314Z-254E☐☐-ND
500K	3314G-504E☐☐-ND◆	3314H-1-504-ND◆‡	3314J-504E☐☐-ND◆	—	3314S-3-504E☐☐-ND◆	3314Z-504E☐☐-ND◆
1M	3314G-105E☐☐-ND◆	3314H-1-105-ND◆‡	3314J-105E☐☐-ND◆	—	—	3314Z-105E☐☐-ND
2M	3314G-205E☐☐-ND◆	—	3314J-205E☐☐-ND◆	—	—	3314Z-205E☐☐-ND

		Cut Tape Pricing						Tape and Reel Pricing				
Series	Part No.	1	5	10	50	100	Part No.	200	500	600	1,000	1,500
3314G/3314G-1	Add "CT"-ND	1.95	9.00	16.50	—	156.00	Add "TR"-ND	—	489.00	—	—	900.00/M
3314H-1‡	—	1.65	—	15.00	64.47	103.26	—	—	—	—	—	—
3314J/3314J-1	Add "CT"-ND	1.95	9.00	16.50	—	156.00	Add "TR"-ND	—	489.00	—	—	900.00/M
3314R-1	Add "CT"-ND	2.28	10.50	19.25	—	182.00	—	—	570.50	—	1050.00	—
3314S-1/3314S-3	Add "CT"-ND	2.15	9.90	18.15	—	171.60	Add "TR"-ND	244.20	—	649.20	—	—
3314Z/3314Z-1	Add "CT"-ND	2.15	9.90	18.15	—	171.60	Add "TR"-ND	244.20	—	649.20	—	—

◆ *RoHS Compliant* ‡ Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SERIES 3214 — Surface Mount 4mm Square/Multi-Turn Cermet/Industrial/Sealed

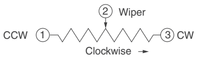

Features: • Sealed to withstand board wash processing • Pick and place centering design, with flush adjustment • Patent #5047746 advanced drive/wiper mechanism **Characteristics:** • **Resistance Tolerance:** ±10% standard • **Absolute Minimum Resistance:** 1% or 2.0Ω (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute) • **Adjustment Angle:** 5 turns nominal • **Power Rating (300V max.):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Vibration:** 20G TRS ±1%; VRS ±1% • **Shock:** 100G TRS ±1%; VRS ±1% • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%; VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code • **Solderability:** Per MIL-STD-202, Method 208 • **Wiper:** Set at 50% nominal • **Flammability:** UL 94V-0

Dim. in mm

3214G

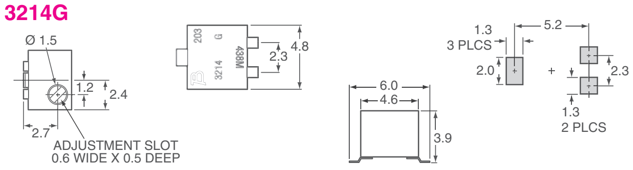

3214J

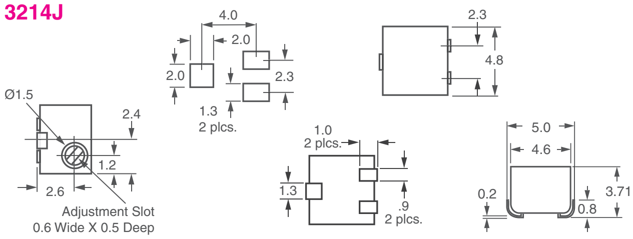

3214W

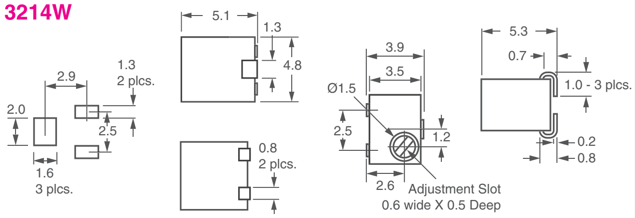

3214X

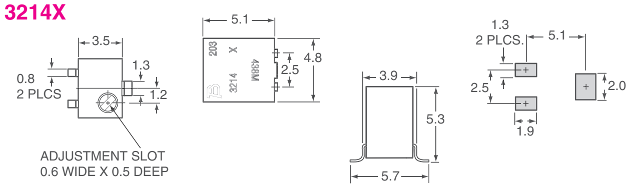

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3214G-1-100E☐☐-ND	—	3214W-1-100E☐☐-ND	—
20	—	3214J-1-200E☐☐-ND	—	3214X-1-200E☐☐-ND
50	—	—	3214W-1-500E☐☐-ND	3214X-1-500E☐☐-ND
100	—	3214J-101E☐☐-ND	3214W-101E☐☐-ND	3214X-1-101E☐☐-ND
200	—	3214J-201E☐☐-ND	3214W-201E☐☐-ND	3214X-1-201E☐☐-ND
500	3214G-1-501E☐☐-ND	3214J-501E☐☐-ND	3214W-501E☐☐-ND	3214X-1-501E☐☐-ND
1K	3214G-1-102E☐☐-ND	3214J-102E☐☐-ND	3214W-102E☐☐-ND	3214X-1-102E☐☐-ND
2K	3214G-1-202E☐☐-ND	3214J-202E☐☐-ND	3214W-202E☐☐-ND	3214X-1-202E☐☐-ND
5K	3214G-1-502E☐☐-ND	3214J-502E☐☐-ND	3214W-502E☐☐-ND	3214X-1-502E☐☐-ND
10K	3214G-1-103E☐☐-ND	3214J-103E☐☐-ND	3214W-103E☐☐-ND	3214X-1-103E☐☐-ND
20K	3214G-1-203E☐☐-ND	3214J-203E☐☐-ND	3214W-203E☐☐-ND	3214X-1-203E☐☐-ND
50K	3214G-1-503E☐☐-ND	3214J-503E☐☐-ND	3214W-503E☐☐-ND	3214X-1-503E☐☐-ND
100K	—	3214J-104E☐☐-ND	3214W-104E☐☐-ND	3214X-1-104E☐☐-ND
200K	3214G-1-204E☐☐-ND	3214J-1-204E☐☐-ND	3214W-1-204E☐☐-ND	3214X-1-204E☐☐-ND
500K	—	3214J-1-504E☐☐-ND	3214W-1-504E☐☐-ND	3214X-1-504E☐☐-ND
1M	—	—	3214W-1-105E☐☐-ND	3214X-1-105E☐☐-ND
2M	—	—	3214W-1-205E☐☐-ND	—

		Cut Tape Pricing				Tape and Reel Pricing			
Series	Part No.	1	10	100	Part No.	200	250	400	500
3214G	Add "CT"-ND	2.76	23.00	211.60	Add "TR"-ND	—	—	—	750.00
3214J	Add "CT"-ND	3.22	27.60	239.20	Add "TR"-ND	—	—	—	750.00
3214W	Add "CT"-ND	3.22	27.60	239.20	Add "TR"-ND	—	414.00	—	750.00
3214X	Add "CT"-ND	2.76	23.00	211.60	Add "TR"-ND	331.20	—	600.00	—

SERIES 3224 — SMT 4mm Multi-Turn (11) Cermet

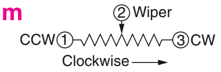

Characteristics:
Resistance Tolerance: ±10% standard • **Absolute Minimum Resistance:** 1% or 2Ω (whichever is greater) • **Contact Resistance Variation:** 1% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute) **Adjustment Angle:** 11 turns nominal • **Power Rating (300V maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code

Dim. in mm

3224G – Side Adjust

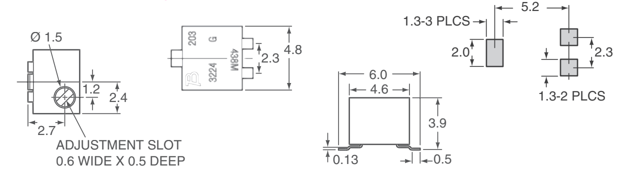

3224J – Side Adjust

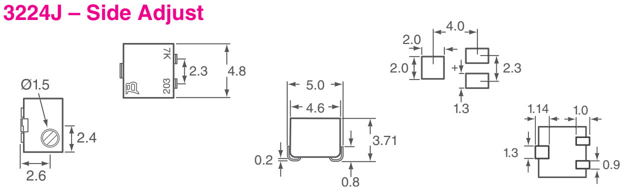

3224W – Top Adjust

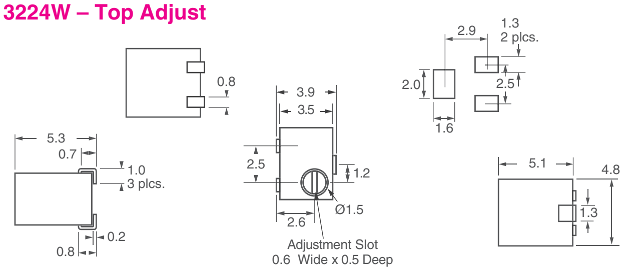

3224X – Top Adjust

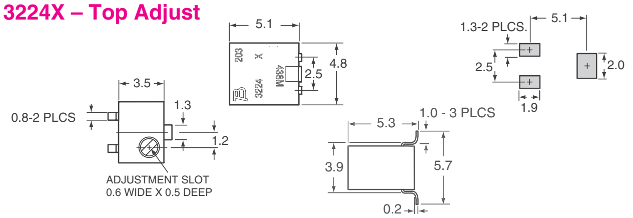

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	—	3224J-1-100E☐☐-ND	—	3224X-1-100E☐☐-ND
20	—	3224J-1-200E☐☐-ND	—	—
50	—	—	—	3224X-1-500E☐☐-ND
100	—	3224J-1-101E☐☐-ND	3224W-1-101E☐☐-ND	3224X-1-101E☐☐-ND
200	3224G-1-201E☐☐-ND	3224J-1-201E☐☐-ND	3224W-1-201E☐☐-ND	3224X-1-201E☐☐-ND
500	3224G-1-501E☐☐-ND	3224J-1-501E☐☐-ND	3224W-1-501E☐☐-ND	3224X-1-501E☐☐-ND
1K	—	3224J-102E☐☐-ND	3224W-1-102E☐☐-ND	3224X-1-102E☐☐-ND
2K	3224G-1-202E☐☐-ND	3224J-202E☐☐-ND	3224W-202E☐☐-ND	3224X-1-202E☐☐-ND
5K	3224G-1-502E☐☐-ND	3224J-502E☐☐-ND	3224W-502E☐☐-ND	3224X-1-502E☐☐-ND
10K	3224G-1-103E☐☐-ND	3224J-103E☐☐-ND	3224W-103E☐☐-ND	3224X-1-103E☐☐-ND
20K	—	3224J-203E☐☐-ND	3224W-203E☐☐-ND	3224X-1-203E☐☐-ND
50K	3224G-1-503E☐☐-ND	3224J-503E☐☐-ND	3224W-1-503E☐☐-ND	3224X-1-503E☐☐-ND
100K	3224G-1-104E☐☐-ND	3224J-1-104E☐☐-ND	3224W-1-104E☐☐-ND	3224X-1-104E☐☐-ND
200K	3224G-1-204E☐☐-ND	3224J-1-204E☐☐-ND	—	3224X-1-204E☐☐-ND
500K	3224G-1-504E☐☐-ND	3224J-1-504E☐☐-ND	—	3224X-1-504E☐☐-ND
1M	—	3224J-1-105E☐☐-ND	—	3224X-1-105E☐☐-ND

		Cut Tape Pricing				Tape and Reel Pricing			
Series	Part No.	1	10	100	Part No.	200	250	400	500
3224G	Add "CT"-ND	4.47	37.25	342.70	Add "TR"-ND	—	—	—	1214.50
3224J	Add "CT"-ND	5.22	44.70	387.40	Add "TR"-ND	—	—	—	1214.50
3224W	Add "CT"-ND	5.22	44.70	387.40	Add "TR"-ND	—	670.50	—	1214.50
3224X	Add "CT"-ND	4.47	37.25	342.70	Add "TR"-ND	536.40	—	971.60	—

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SERIES 3306 — 6mm Round/Single-Turn Cermet/Industrial/Open Frame

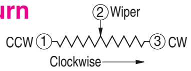

Characteristics: • Cross slot rotor design suitable for automatic adjustment equipment. • Board retention feature. • Dust resistant/splash resistant cover. • Front and top adjust styles. **Resistance Tolerance:** ±25% standard **Adjustment Angle:** 215° nominal **Power Rating** (100 volts maximum): 70°C — 0.2 watt **Temperature Range:** -25°C ~ 100°C **Temperature Coefficient:** ±250ppm/°C **Load Life:** 1,000 hours 0.2 watt @ 70°C (5% ΔTR) **Torque** (Operating): 4.5 oz-inch maximum **Stop Strength:** 6.5 oz-inch minimum

3306F

Dim. in mm

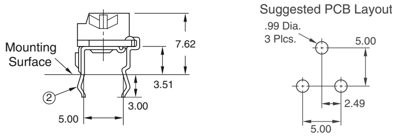

3306K

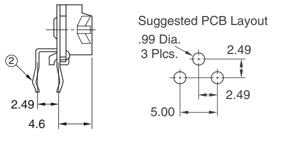

3306W

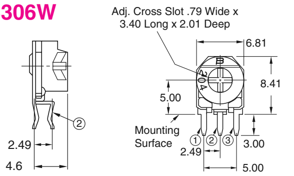

3306P

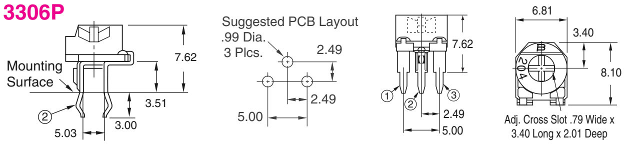

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3306F-101-ND◆	3306K-101-ND	3306P-101-ND◆	3306W-101-ND◆
200	3306F-201-ND◆	3306K-201-ND	3306P-201-ND	3306W-201-ND
500	3306F-501-ND◆	3306K-501-ND	3306P-501-ND◆	3306W-501-ND
1K	3306F-102-ND◆	3306K-102-ND	3306P-102-ND	3306W-102-ND
2K	3306F-202-ND◆	3306K-202-ND◆	3306P-202-ND◆	3306W-202-ND◆
5K	3306F-502-ND◆	3306K-502-ND◆	3306P-502-ND◆	3306W-502-ND◆
10K	3306F-103-ND◆	3306K-103-ND	3306P-103-ND◆	3306W-103-ND◆
20K	3306F-203-ND◆	3306K-203-ND	3306P-203-ND◆	3306W-203-ND◆
50K	3306F-503-ND◆	3306K-503-ND◆	3306P-503-ND◆	3306W-503-ND◆
100K	3306F-104-ND	3306K-104-ND	3306P-104-ND◆	3306W-104-ND◆
200K	3306F-204-ND◆	3306K-204-ND◆	3306P-204-ND◆	3306W-204-ND◆
500K	3306F-504-ND	3306K-504-ND◆	3306P-504-ND◆	3306W-504-ND◆
1M	3306F-105-ND◆	3306K-105-ND	3306P-105-ND◆	3306W-105-ND

	Pricing		
Series	1	10	100
3306F / 3306K / 3306P / 3306W	.71	5.30	49.50

◆ *RoHS Compliant*

SERIES 3262 — 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 12 turns nominal • **Power Rating:** (300 volts maximum) 85°C — 0.25 watt; 150°C — 0 watt • **Temperature Range:** –65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

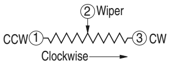

Dim. in mm

3262P

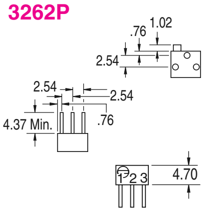

3262W

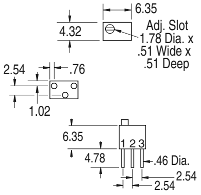

3262X

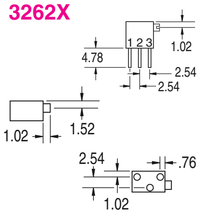

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
20	3262P-200LF-ND	3262W-200LF-ND	—
50	—	3262W-500LF-ND	—
100	—	3262W-101LF-ND	3262X-101LF-ND
200	—	3262W-201LF-ND	—
500	—	3262W-501LF-ND	3262X-501LF-ND
1K	3262P-102LF-ND	3262W-102LF-ND	3262X-102LF-ND
2K	—	3262W-202LF-ND	—
5K	3262P-502LF-ND	3262W-502LF-ND	3262X-502LF-ND
10K	3262P-103LF-ND	3262W-103LF-ND	3262X-103LF-ND
20K	—	3262W-203LF-ND	3262X-203LF-ND
25K	—	3262W-253LF-ND	3262X-253LF-ND
50K	3262P-503LF-ND	3262W-503LF-ND	—
100K	3262P-104LF-ND	3262W-104LF-ND	3262X-104LF-ND
200K	—	3262W-204LF-ND	—
250K	—	3262W-254LF-ND	—
500K	—	3262W-504LF-ND	3262X-504LF-ND
1M	3262P-105LF-ND	3262W-105LF-ND	3262X-105LF-ND

	Pricing		
Series	1	10	50
3262P/3262W/3262X	14.30	130.00	559.00

SERIES 3266 — 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 12 turns nominal • **Power Rating (300 volts maximum):** 70°C - 0.25 watt; 150°C - 0 watt • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25 watt @ 70°C (3% ΔTR; CRV, 3%) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-in. maximum • **Mechanical Stops:** Wiper idles

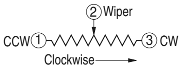

Dim. in mm

3266W

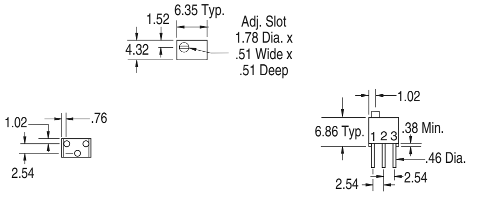

3266X

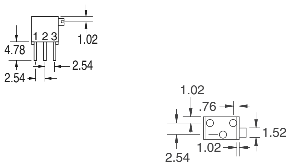

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
10	3266W-100LF-ND	3266X-100LF-ND
20	3266W-200LF-ND	3266X-200LF-ND
50	3266W-500LF-ND	3266X-500LF-ND
100	3266W-101LF-ND	3266X-101LF-ND
200	3266W-201LF-ND	3266X-201LF-ND
500	3266W-501LF-ND	3266X-501LF-ND
1K	3266W-102LF-ND	3266X-102LF-ND
2K	3266W-202LF-ND	3266X-202LF-ND
5K	3266W-502LF-ND	3266X-502LF-ND
10K	3266W-103LF-ND	3266X-103LF-ND
20K	3266W-203LF-ND	3266X-203LF-ND
25K	3266W-253LF-ND	3266X-253LF-ND
50K	3266W-503LF-ND	3266X-503LF-ND
100K	3266W-104LF-ND	3266X-104LF-ND
200K	3266W-204LF-ND	3266X-204LF-ND
250K	3266W-254LF-ND	3266X-254LF-ND
500K	3266W-504LF-ND	3266X-504LF-ND
1M	3266W-105LF-ND	3266X-105LF-ND

	Pricing		
Series	1	10	50
3266W/3266X	3.58	32.50	139.75

SERIES 3260 — 1/4"(6.35mm) Square/Multiturn (11) Wirewound/Industrial/Sealed

Characteristics: • **Resistance Tolerance:** ±5% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating:** 85°C = 0.25W; 150°C = 0W • **Temperature Range:** -65°C ~ 150°C. • **Temperature Coefficient:** 70ppm/°C • **Load Life:** 1,000 hours 0.25W @ 85°C (2% DTR; ENR, 500Ω) • **Rotational Life:** 200 cycles (2% DTR; ENR, 500Ω) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

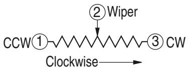

	Pricing		
Series	1	10	50
3260H	28.52	259.25	1114.78

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
100	3260H-101-ND	1.00
200	3260H-201-ND◆	0.94
500	3260H-501-ND◆	0.58
1K	3260H-102-ND	0.50
2K	3260H-202-ND◆	0.45
10K	3260H-103-ND◆	0.29
20K	3260H-203-ND◆	0.28

◆ *RoHS Compliant*

Dim. in mm

3260H

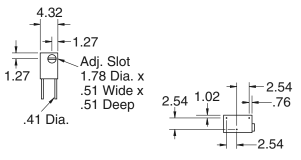

SERIES 3269 — 1/4” (6.35mm) Square SMD Trimming Potentiometer

Characteristics: • **Resistance Tolerance:** ±10% standard • **Contact Resistance Variation:** 3.0% or 3Ω maximum • **Resolution:** Infinite • **Insulation Resistance:** 500VDC; 1,000MΩ minimum • **Effective Travel**: 12 turns nominal • **Power Rating (300 volts maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25W @ 85°C (3% ΔTR; 3% or 3Ω, whichever is greater, CRV) • **Rotational Life:** 200 cycles (2% ΔTR; 3% or 3Ω, whichever is greater, CRV) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3269P

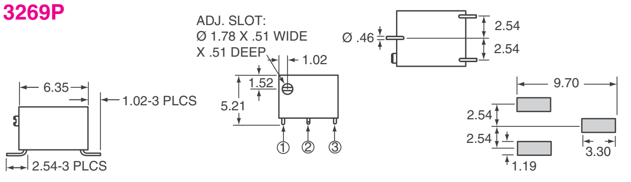

3269W

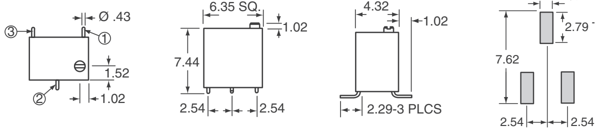

3269X

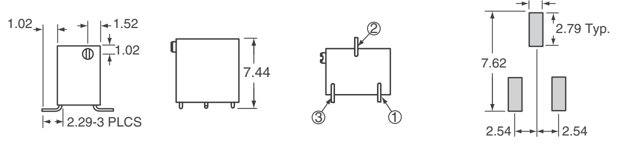

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
—	—	3269W-1-100LF-ND	3269X-1-100LF-ND
20	3269P-1-200LF-ND	3269W-1-200LF-ND	—
50	—	3269W-1-500LF-ND	—
100	3269P-1-101LF-ND	3269W-1-101LF-ND	3269X-1-101LF-ND
200	3269P-1-201LF-ND	3269W-1-201LF-ND	—
500	3269P-1-501LF-ND	3269W-1-501LF-ND	3269X-1-501LF-ND
1K	3269P-1-102LF-ND	3269W-1-102LF-ND	3269X-1-102LF-ND
2K	3269P-1-202LF-ND	3269W-1-202LF-ND	3269X-1-202LF-ND
5K	3269P-1-502LF-ND	3269W-1-502LF-ND	3269X-1-502LF-ND
10K	3269P-1-103LF-ND	3269W-1-103LF-ND	3269X-1-103LF-ND
20K	3269P-1-203LF-ND	3269W-1-203LF-ND	3269X-1-203LF-ND
25K	—	3269W-1-253LF-ND	—
50K	3269P-1-503LF-ND	3269W-1-503LF-ND	3269X-1-503LF-ND
100K	3269P-1-104LF-ND	3269W-1-104LF-ND	3269X-1-104LF-ND
200K	3269P-1-204LF-ND	3269W-1-204LF-ND	3269X-1-204LF-ND
250K	—	3269W-1-254LF-ND	3269X-1-254LF-ND
500K	3269P-1-504LF-ND	3269W-1-504LF-ND	3269X-1-504LF-ND
1M	3269P-1-105LF-ND	3269W-1-105LF-ND	—

	Pricing			
Series	1	10	50	100
3269P/3269W/3269X	4.43	40.25	173.00	277.08

SERIES 3329 — 1/4" (6.35mm) Round/Single-Turn Cermet/Industrial/Sealed

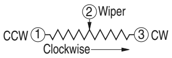

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300 volts maximum):** 85°C = 0.5W; 150°C = 0W • **Temperature Range:** -55°C ~ 150°C • **Temperature Coefficient:** ±100 ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3%) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 4%) • **Mechanical Angle:** 260° nominal • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 5.0 oz-inch minimum

Dim. in mm

3329H

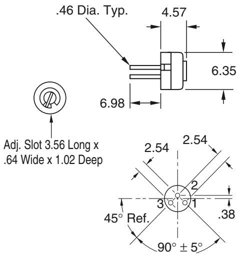

3329P

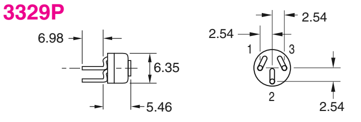

3329S

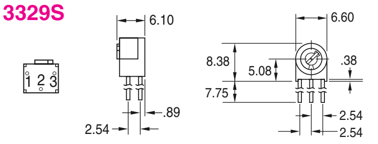

3329W

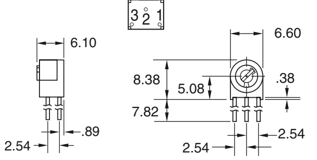

3329X

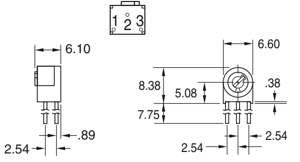

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3329H-500LF-ND	3329P-500LF-ND	—	—	—
100	3329H-101LF-ND	3329P-101LF-ND	—	3329W-101LF-ND	3329X-101LF-ND
200	3329H-201LF-ND	3329P-201LF-ND	—	—	—
500	3329H-501LF-ND	3329P-501LF-ND	3329S-501LF-ND	—	3329X-501LF-ND
1K	3329H-102LF-ND	—	3329S-102LF-ND	3329W-102LF-ND	3329X-102LF-ND
2K	3329H-202LF-ND	3329P-202LF-ND	—	3329W-202LF-ND	3329X-202LF-ND
5K	3329H-502LF-ND	3329P-502LF-ND	3329S-502LF-ND	—	3329X-502LF-ND
10K	3329H-103LF-ND	3329P-103LF-ND	3329S-103LF-ND	3329W-103LF-ND	3329X-103LF-ND
20K	3329H-203LF-ND	3329P-203LF-ND	3329S-203LF-ND	3329W-203LF-ND	3329X-203LF-ND
50K	3329H-503LF-ND	3329P-503LF-ND	3329S-503LF-ND	3329W-503LF-ND	3329X-503LF-ND
100K	3329H-104LF-ND	3329P-104LF-ND	3329S-104LF-ND	3329W-104LF-ND	—
200K	3329H-204LF-ND	3329P-204LF-ND	—	3329W-204LF-ND	—
500K	3329H-504LF-ND	3329P-504LF-ND	—	—	—
1M	3329H-105LF-ND	3329P-105LF-ND	—	3329W-105LF-ND	—

	Pricing		
Series	1	10	50
3329H/3329P	2.61	23.75	102.13
3329S/3329W/3329X	3.14	28.50	122.55

SERIES 3361 — 1/4" (6.35mm) Square SMD Single-Turn Cermet/Industrial/Sealed

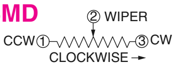

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300V maximum):** 70°C = 0.50W; 125°C = 0W • **Temperature Range:** - 55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-in. maximum • **Stop Strength:** 7.0 oz-in. minimum

Dim. in mm

3361P

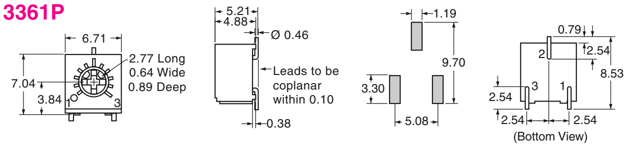

3361S

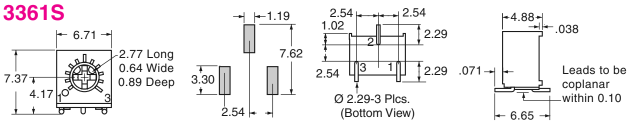

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
20	3361P-1-200GLF□□-ND◆	3361S-1-200GLFCT-ND◆
100	3361P-101G□□-ND†	—
200	3361P-201GLF□□-ND◆	3361S-201G□□-ND†
500	3361P-501G□□-ND†	3361S-501GLF□□-ND◆
1K	3361P-102GLF□□-ND◆	3361S-102G□□-ND†
2K	3361P-202GLF□□-ND◆	3361S-202GLF□□-ND◆
5K	3361P-502GLF□□-ND◆	3361S-502GLF□□-ND◆
10K	3361P-103GLF□□-ND◆	3361S-103GLF□□-ND◆
20K	3361P-203GLF□□-ND◆	3361S-203GLF□□-ND◆
25K	3361P-1-253GLF□□-ND◆	—
50K	3361P-503GLF□□-ND◆	3361S-503G□□-ND†
100K	3361P-104GLF□□-ND◆	3361S-104GLF□□-ND◆
200K	3361P-1-204GLF□□-ND◆	—
250K	3361P-1-254GLF□□-ND◆	—
500K	3361P-1-504GLF□□-ND◆	3361S-1-504GLF□□-ND◆
1M	3361P-1-105GLF□□-ND◆	—

		Cut Tape Pricing				Tape and Reel Pricing	
Series	Part No.	1	10	50	Part No.	500	750
3361P/3361P-1	Add “CT”-ND	1.02	9.25	44.40	Add “TR”-ND	—	486.00
3361S/3361S-1	Add “CT”-ND	1.02	9.25	44.40	Add “TR”-ND	324.00	—

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change □□-ND to LF□□-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SERIES 3362 —
1/4" (6.35mm) Square/Single-Turn Cermet/Industrial/Sealed

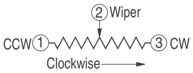

Dimensions in mm

3362H, P, R, U (common dimensions)

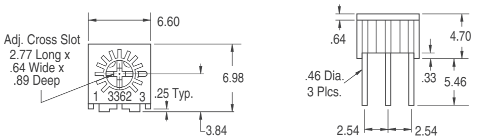

3362M, W, X (common dimensions)

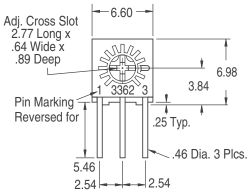

3362P with Knob (common dimensions)

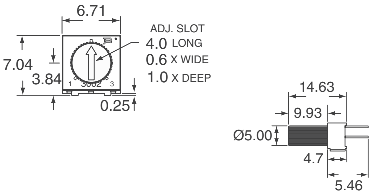

3362H

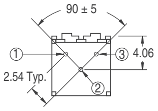

3362M

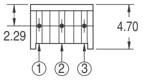

3362P

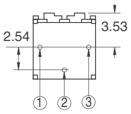

3362R

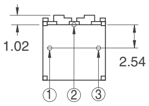

3362U

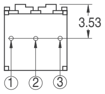

3362W

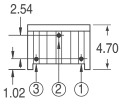

3362X

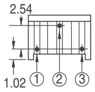

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3362H-101LF-ND	3362M-101LF-ND	3362P-101LF-ND	—	3362U-101LF-ND	3362W-101LF-ND	3362X-101LF-ND	—
200	3362H-201LF-ND	3362M-201LF-ND	3362P-201LF-ND	3362R-201LF-ND	3362U-201LF-ND	3362W-201LF-ND	3362X-201LF-ND	—
500	3362H-501LF-ND	3362M-501LF-ND	3362P-501LF-ND	3362R-501LF-ND	3362U-501LF-ND	3362W-501LF-ND	3362X-501LF-ND	—
1K	3362H-102LF-ND	3362M-102LF-ND	3362P-102LF-ND	3362R-102LF-ND	3362U-102LF-ND	3362W-102LF-ND	—	—
2K	3362H-202LF-ND	3362M-202LF-ND	3362P-202LF-ND	3362R-202LF-ND	3362U-202LF-ND	3362W-202LF-ND	3362X-202LF-ND	3362P-202TLF-ND
5K	3362H-502LF-ND	3362M-502LF-ND	3362P-502LF-ND	3362R-502LF-ND	3362U-502LF-ND	3362W-502LF-ND	3362X-502LF-ND	3362P-502TLF-ND
10K	3362H-103LF-ND	3362M-103LF-ND	3362P-103LF-ND	3362R-103LF-ND	3362U-103LF-ND	3362W-103LF-ND	3362X-103LF-ND	3362P-103TLF-ND
20K	3362H-203LF-ND	3362M-203LF-ND	3362P-203LF-ND	3362R-203LF-ND	3362U-203LF-ND	3362W-203LF-ND	3362X-203LF-ND	3362P-203TLF-ND
25K	3362H-253LF-ND	3362M-253LF-ND	3362P-253LF-ND	—	3362U-253LF-ND	3362W-253LF-ND	3362X-253LF-ND	—
50K	3362H-503LF-ND	3362M-503LF-ND	3362P-503LF-ND	3362R-503LF-ND	3362U-503LF-ND	3362W-503LF-ND	—	3362P-503TLF-ND
100K	3362H-104LF-ND	3362M-104LF-ND	3362P-104LF-ND	3362R-104LF-ND	3362U-104LF-ND	3362W-104LF-ND	3362X-104LF-ND	—
200K	3362H-204LF-ND	—	3362P-204LF-ND	3362R-204LF-ND	3362U-204LF-ND	3362W-204LF-ND	3362X-204LF-ND	—
500K	3362H-504LF-ND	3362M-504LF-ND	3362P-504LF-ND	3362R-504LF-ND	3362U-504LF-ND	3362W-504LF-ND	3362X-504LF-ND	—
1M	3362H-105LF-ND	3362M-105LF-ND	3362P-105LF-ND	—	3362U-105LF-ND	—	3362X-105LF-ND	—

Features: • Miniature package • Rotor designed for automatic machine adjust interface • Multi-wire wiper to minimize CRV • Withstands harsh environments and immersion cleaning process
Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300V max.):** 70°C = 0.5W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-inch maximum • **Stop Strength:** 7.0 oz-inch minimum

Series	Pricing 1	 10	 50
3362H / 3362M / 3362P / 3362R / 3362U / 3362W / 3362X	.83	7.50	36.75
3362P (with Knob)	1.51	13.75	59.13

SERIES 3339 — 5/16" (7.95mm) Round/Four-Turn Cermet/Industrial/Sealed

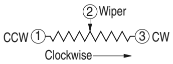

Features:

- Unique planetary drive offers precise wiper setting of a multiturn in a single-turn package size • Top and side adjust styles

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 4 turns nominal • **Power Rating (300 volts maximum):** 85°C = 0.5W; 150°C = 0W • **Temperature Range:** -55°C ~ 150°C • **Temperature Coefficient:** ±100 ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3339H

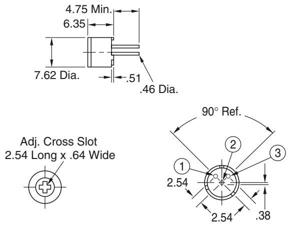

3339P

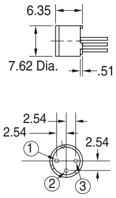

3339W

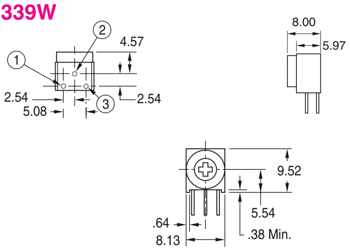

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	—	3339P-500LF-ND	—
100	3339H-101LF-ND	3339P-101LF-ND	—
200	3339H-201LF-ND	—	—
500	—	3339P-501LF-ND	3339W-501LF-ND
1K	3339H-102LF-ND	3339P-102LF-ND	—
2K	—	3339P-202LF-ND	3339W-202LF-ND
5K	3339H-502LF-ND	3339P-502LF-ND	3339W-502LF-ND
10K	3339H-103LF-ND	3339P-103LF-ND	3339W-103LF-ND
20K	3339H-203LF-ND	3339P-203LF-ND	3339W-203LF-ND
50K	3339H-503LF-ND	3339P-503LF-ND	—
100K	3339H-104LF-ND	3339P-104LF-ND	3339W-104LF-ND
500K	3339H-504LF-ND	3339P-504LF-ND	3339W-504LF-ND
1M	3339H-105LF-ND	3339P-105LF-ND	—

Series	Pricing 1	 10	 50
3339H/3339P	5.28	48.00	206.40
3339W	7.59	69.00	296.70

SERIES 3309 —
9mm Round/Single-Turn Cermet/Industrial/Open Frame

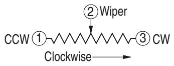

Characteristics:

- **Resistance Tolerance:** ±25% standard • **Adjustment Angle:** 235° nominal • **Power Rating (250 volts maximum):** 70°C = 0.5 Watt
- **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±250ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 70°C (5% ΔTR)
- **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 11.0 oz-inch minimum

Dim. in mm

3309P

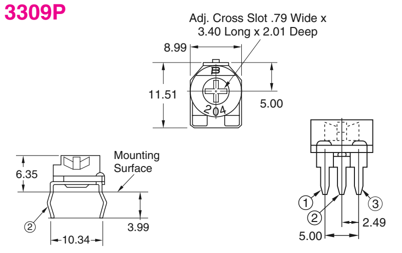

3309W

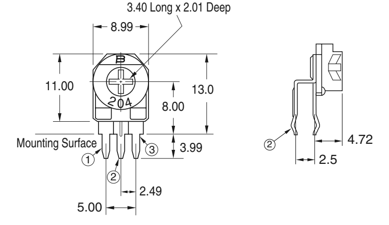

Resolution (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3309P-101-ND◆	3309W-101-ND◆
200	3309P-201-ND◆	3309W-201-ND
500	3309P-501-ND◆	3309W-501-ND
1K	3309P-102-ND◆	3309W-102-ND◆
2K	3309P-202-ND◆	3309W-202-ND◆
5K	3309P-502-ND◆	3309W-502-ND◆
10K	3309P-103-ND	3309W-103-ND◆
20K	3309P-203-ND◆	3309W-203-ND◆
50K	3309P-503-ND◆	3309W-503-ND◆
100K	3309P-104-ND◆	3309W-104-ND
200K	3309P-204-ND◆	3309W-204-ND◆
500K	3309P-504-ND	3309W-504-ND◆
1M	3309P-105-ND◆	3309W-105-ND

	Pricing		
Series	**1**	**10**	**100**
3309P/3309W	.80	6.75	55.95

◆ *RoHS Compliant*

SERIES 3319 — 9mm Round/Single-Turn Carbon/Open Frame

Characteristics:

- **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 3% maximum • **Resolution:** Infinite • **Adjustment Angle:** 235° nominal • **Power Rating (200V maximum):** 70°C = 0.2W
- **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±1,000ppm/°C

Dim. in mm

3319P-1 –
Top Adjust

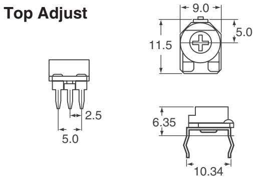

3319W-1 –
Side Adjust

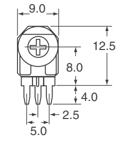

Series	Resistance (Ω)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50
3319P-1	100	3319P-101-ND◆	.45	3.25	14.25
	200	3319P-201-ND	.45	3.25	14.25
	5K	3319P-502-ND◆	.45	3.25	14.25
	10K	3319P-103-ND	.45	3.25	14.25
	100K	3319P-104-ND◆	.45	3.25	14.25
	200K	3319P-204-ND	.45	3.25	14.25
3319W-1	10K	3319W-1-103-ND◆	.45	3.25	14.25

◆ *RoHS Compliant*

SERIES 3310 — 9mm Square Panel Control Conductive Plastic, Sealed

Features:

- Conductive plastic • Linear • PC board and bushing mount • Plastic bushing and plastic shaft
- Withstands typical industrial washing processes • Compact package saves board and panel space

Characteristics:

- **Standard Resistance Range (Linear):** 1KΩ to 1MΩ • **Total Resistance Tolerance (Linear Tapers):** ±20% • **Independent Linearity:** ±5% • **Absolute Minimum Resistance:** 2Ω maximum • **Effective Electrical Angle:** 270° ±15° • **Contact Resistance Variation:** 1% or 1Ω (whichever is greater) • **Dielectric Withstanding Voltage: (Sea Level)** 900VAC minimum; **(70,000 Feet)** 350 VAC minimum • **Insulation Resistance:** 1,000MΩ minimum • **Power Rating @ 70°C:** (Derate to 0 at 125°C - Voltage limited by power dissipation or 200VAC, whichever is less) 0.25 watts • **Stop Strength:** 5.65 nominal • **Mechanical Angle:** 300° nominal • **Torque (Running):** 3.53 nominal • **Mounting hardware included**

Dim. in mm

3310C

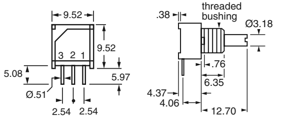

3310Y

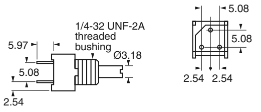

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
1K	3310C-001-102L-ND	3310Y-001-102L-ND
2K	3310C-001-202L-ND	3310Y-001-202L-ND
5K	3310C-001-502L-ND	3310Y-001-502L-ND
10K	3310C-001-103L-ND	3310Y-001-103L-ND
20K	3310C-001-203L-ND	3310Y-001-203L-ND
50K	3310C-001-503L-ND	3310Y-001-503L-ND
100K	3310C-001-104L-ND	3310Y-001-104L-ND
200K	3310C-001-204L-ND	3310Y-001-204L-ND
500K	3310C-001-504L-ND	3310Y-001-504L-ND
1M	3310C-001-105L-ND	3310Y-001-105L-ND

	Pricing		
Series	**1**	**10**	**50**
3310C/3310Y	2.56	22.63	94.90

SERIES 3299 —
3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

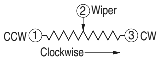

Characteristics:

- **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500vdc. 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt
- **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

Common Dimensions

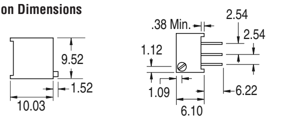

3299X

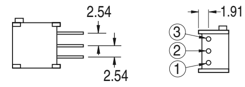

3299P

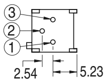

3299Y

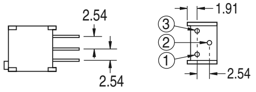

3299W

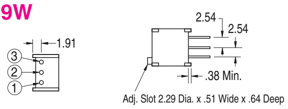

3299Z

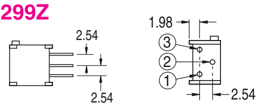

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3299P-100LF-ND	3299W-100LF-ND	3299X-100LF-ND	3299Y-100LF-ND	3299Z-100LF-ND
20	3299P-200LF-ND	—	3299X-200LF-ND	3299Y-200LF-ND	—
50	—	3299W-500LF-ND	—	3299Y-500LF-ND	—
100	3299P-101LF-ND	3299W-101LF-ND	3299X-101LF-ND	3299Y-101LF-ND	3299Z-101LF-ND
200	3299P-201LF-ND	3299W-201LF-ND	3299X-201LF-ND	3299Y-201LF-ND	—
500	3299P-501LF-ND	3299W-501LF-ND	3299X-501LF-ND	3299Y-501LF-ND	3299Z-501LF-ND
1K	3299P-102LF-ND	3299W-102LF-ND	3299X-102LF-ND	3299Y-102LF-ND	3299Z-102LF-ND
2K	3299P-202LF-ND	3299W-202LF-ND	3299X-202LF-ND	3299Y-202LF-ND	3299Z-202LF-ND
5K	3299P-502LF-ND	3299W-502LF-ND	3299X-502LF-ND	3299Y-502LF-ND	3299Z-502LF-ND
10K	3299P-103LF-ND	3299W-103LF-ND	3299X-103LF-ND	3299Y-103LF-ND	3299Z-103LF-ND
20K	3299P-203LF-ND	3299W-203LF-ND	3299X-203LF-ND	3299Y-203LF-ND	3299Z-203LF-ND
25K	3299P-253LF-ND	3299W-253LF-ND	—	3299Y-253LF-ND	—
50K	3299P-503LF-ND	3299W-503LF-ND	3299X-503LF-ND	3299Y-503LF-ND	3299Z-503LF-ND
100K	3299P-104LF-ND	3299W-104LF-ND	3299X-104LF-ND	3299Y-104LF-ND	3299Z-104LF-ND
200K	3299P-204LF-ND	3299W-204LF-ND	3299X-204LF-ND	3299Y-204LF-ND	3299Z-204LF-ND
250K	—	3299W-254LF-ND	3299X-254LF-ND	3299Y-254LF-ND	—
500K	3299P-504LF-ND	3299W-504LF-ND	3299X-504LF-ND	3299Y-504LF-ND	—
1M	3299P-105LF-ND	3299W-105LF-ND	3299X-105LF-ND	3299Y-105LF-ND	3299Z-105LF-ND
2M	—	3299W-205LF-ND	—	3299Y-205LF-ND	3299Z-205LF-ND
5M	—	3299W-505LF-ND	3299X-505LF-ND	—	—

	Pricing		
Series	**1**	**10**	**50**
3299P/3299Z	3.14	28.50	122.55
3299W/3299X/3299Y	2.92	26.50	113.95

SERIES 3296 — 3/8" (9.52mm)
Square/Multiturn (25) Cermet/ Industrial/Sealed

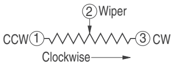

Characteristics

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt. • **Temperature Range:** -55°C ~ 125°C. • **Temperature Coefficient:** ±100 ppm/°C. • **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles.

Dim. in mm

Common Dimensions

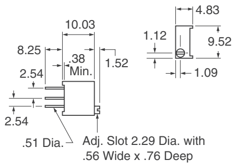

3296P

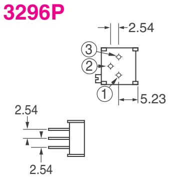

3296W

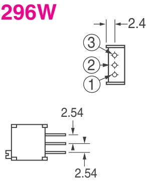

3296X

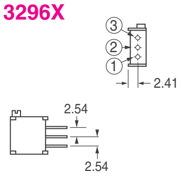

3296Y

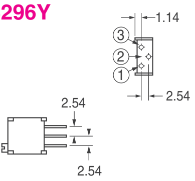

3296Z

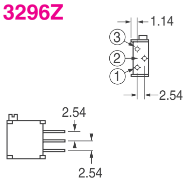

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3296P-100LF-ND	3296W-100LF-ND	3296X-100LF-ND	3296Y-100LF-ND	—
20	3296P-200LF-ND	3296W-200LF-ND	3296X-200LF-ND	3296Y-200LF-ND	3296Z-200LF-ND
50	3296P-500LF-ND	3296W-500LF-ND	3296X-500LF-ND	3296Y-500LF-ND	3296Z-500LF-ND
100	—	3296W-101LF-ND	3296X-101LF-ND	3296Y-101LF-ND	3296Z-101LF-ND
200	3296P-201LF-ND	3296W-201LF-ND	3296X-201LF-ND	3296Y-201LF-ND	3296Z-201LF-ND
500	3296P-501LF-ND	3296W-501LF-ND	3296X-501LF-ND	3296Y-501LF-ND	3296Z-501LF-ND
1K	3296P-102LF-ND	3296W-102LF-ND	3296X-102LF-ND	3296Y-102LF-ND	3296Z-102LF-ND
2K	3296P-202LF-ND	3296W-202LF-ND	3296X-202LF-ND	3296Y-202LF-ND	3296Z-202LF-ND
5K	3296P-502LF-ND	3296W-502LF-ND	3296X-502LF-ND	3296Y-502LF-ND	3296Z-502LF-ND
10K	3296P-103LF-ND	3296W-103LF-ND	3296X-103LF-ND	3296Y-103LF-ND	3296Z-103LF-ND
20K	3296P-203LF-ND	3296W-203LF-ND	3296X-203LF-ND	3296Y-203LF-ND	3296Z-203LF-ND
25K	—	3296W-253LF-ND	3296X-253LF-ND	3296Y-253LF-ND	3296Z-253LF-ND
50K	3296P-503LF-ND	3296W-503LF-ND	3296X-503LF-ND	3296Y-503LF-ND	3296Z-503LF-ND
100K	3296P-104LF-ND	3296W-104LF-ND	3296X-104LF-ND	3296Y-104LF-ND	3296Z-104LF-ND
200K	3296P-204LF-ND	3296W-204LF-ND	3296X-204LF-ND	3296Y-204LF-ND	3296Z-204LF-ND
250K	—	3296W-254LF-ND	3296X-254LF-ND	3296Y-254LF-ND	—
500K	3296P-504LF-ND	3296W-504LF-ND	3296X-504LF-ND	3296Y-504LF-ND	3296Z-504LF-ND
1M	3296P-105LF-ND	3296W-105LF-ND	3296X-105LF-ND	3296Y-105LF-ND	3296Z-105LF-ND
2M	3296P-205LF-ND	3296W-205LF-ND	3296X-205LF-ND	3296Y-205LF-ND	3296Z-205LF-ND
5M	3296P-505LF-ND	3296W-505LF-ND	3296X-505LF-ND	—	—

	Pricing		
Series	1	10	50
3296P/3296Z	2.70	24.50	105.35
3296W/3296X/3296Y	2.50	22.75	97.83

SERIES 3352 — 3/8" (9.52mm)
Round/Single-Turn Cermet/ Industrial/Open Frame

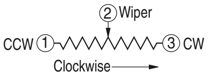

Characteristics:

• **Resistance Tolerance:** ±20% standard • **Adjustment Angle:** 205° nominal • **Power Rating (250 volts maximum):** 85°C = 0.5W; 125°C = 0W • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ≤ 2K ±150ppm/°C; 2K ≤ +100ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR) • **Rotational Life:** 200 cycles (10% DTR) • **Mechanical Angle:** 250° nominal • **Torque:** 3.0 oz-inch maximum • **Stop Strength:** 8 oz-inch minimum

Dim. in mm

Common Dimensions

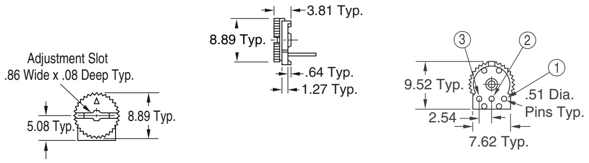

3352E

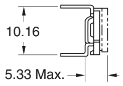

3352H

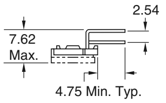

3352P

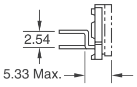

3352W

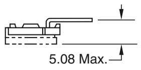

3352T

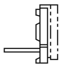

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3352E-101LF-ND◆	—	—	3352T-101LF-ND◆	3352W-101LF-ND◆
200	—	—	3352P-201LF-ND	3352T-201LF-ND	—
500	3352E-501LF-ND	—	3352P-501LF-ND	3352T-501LF-ND	3352W-501LF-ND
1K	3352E-102LF-ND	3352H-102LF-ND	3352P-102LF-ND	3352T-102LF-ND	3352W-102LF-ND
2K	3352E-202LF-ND	—	3352P-202LF-ND	3352T-202LF-ND	3352W-202LF-ND
5K	3352E-502LF-ND	3352H-502LF-ND	3352P-502LF-ND	3352T-502LF-ND	3352W-502LF-ND
10K	3352E-103LF-ND	3352H-103LF-ND	3352P-103LF-ND	3352T-103LF-ND	3352W-103LF-ND
20K	3352E-203LF-ND	3352H-203LF-ND	3352P-203LF-ND	3352T-203LF-ND	3352W-203LF-ND
25K	3352E-253LF-ND	3352H-253LF-ND	—	3352T-253LF-ND	3352W-253LF-ND
50K	3352E-503LF-ND	3352H-503LF-ND	3352P-503LF-ND	—	3352W-503LF-ND
100K	3352E-104LF-ND	3352H-104LF-ND	3352P-104LF-ND	3352T-104LF-ND	3352W-104LF-ND
200K	—	—	3352P-204LF-ND	3352T-204LF-ND	3352W-204LF-ND
250K	—	—	3352P-254LF-ND	3352T-254LF-ND	—
500K	3352E-504LF-ND	—	3352P-504LF-ND	3352T-504LF-ND	3352W-504LF-ND
1M	3352E-105LF-ND	—	3352P-105LF-ND	3352T-105LF-ND	3352W-105LF-ND

	Pricing		
Series	1	10	50
3352E / 3352H / 3352P / 3352T / 3352W	1.24	11.25	48.38

SERIES 3292 —
3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

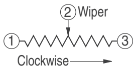

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (400 volts maximum): 85°C — 0.5 watt; 150°C — 0 watt. • **Temperature Range:** –65°C ~ 150°C. • **Temperature Coefficient:** ±100 ppm/°C. • **Load Life:** 1,000 hours 0.5 watt @ 85°C (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles.

Dim. in mm

3292W

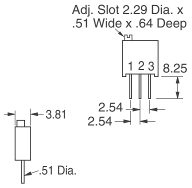

3292P

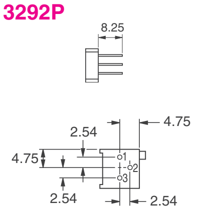

3292X

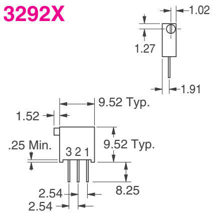

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	—	3292W-101LF-ND	—
200	—	3292W-201LF-ND	3292X-201LF-ND
500	—	3292W-501LF-ND	3292X-501LF-ND
1K	—	3292W-102LF-ND	3292X-102LF-ND
2K	—	3292W-202LF-ND	3292X-202LF-ND
5K	—	3292W-502LF-ND	3292X-502LF-ND
10K	3292P-103LF-ND	3292W-103LF-ND	3292X-103LF-ND
20K	—	3292W-203LF-ND	3292X-203LF-ND
50K	—	3292W-503LF-ND	3292X-503LF-ND
100K	—	3292W-104LF-ND	—
200K	3292P-204LF-ND	3292W-204LF-ND	—
500K	—	3292W-504LF-ND	—
1M	—	3292W-105LF-ND	—

	Pricing		
Series	1	10	50
3292P/3292W/3292X	15.51	141.00	606.30

BOURNS® Trimmer Potentiometers

SERIES 3386 — 3/8" (9.52mm) Square/Single Turn
Cermet/Industrial/Sealed

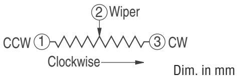

Dim. in mm

3386C, H, W, X – Side Adjust (common dimensions)

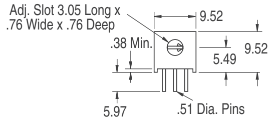

3386F, P, R – Top Adjust (common dimensions)

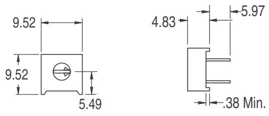

3386F, P with Knob – Top Adjust (common dimensions)

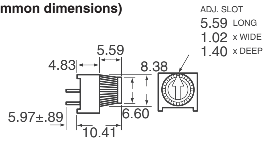

3386X with Knob – Side Adjust (common dimensions)

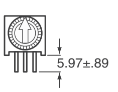

3386C

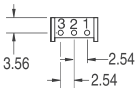

3386H

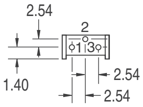

3386W

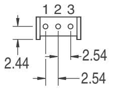

3386X

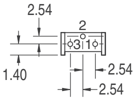

3386F

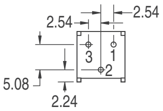

3386P

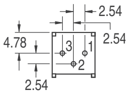

3386R

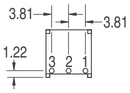

Res. (Ω)	3386C, H, W, X				3386F, P, R			3386F, P, X with Knob		
	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3386C-500LF-ND◆	3386H-500LF-ND◆	3386W-500LF-ND◆	3386X-500LF-ND◆	3386F-500LF-ND◆	3386F-500LF-ND◆	—	—	—	—
100	3386C-101LF-ND◆	3386H-101LF-ND◆	3386W-101LF-ND◆	3386X-101LF-ND◆	3386F-101LF-ND◆	3386P-101LF-ND◆	3386R-101LF-ND◆	—	—	—
200	3386C-201LF-ND◆	3386H-201LF-ND◆	3386W-201LF-ND◆	3386X-201LF-ND◆	3386F-201LF-ND◆	3386P-201LF-ND◆	—	—	—	—
500	3386C-501LF-ND◆	3386H-501-ND†	3386W-501-ND†	3386X-501LF-ND◆	3386F-501LF-ND◆	3386P-501LF-ND◆	—	—	—	—
1K	3386C-102LF-ND◆	3386H-102LF-ND◆	3386W-102LF-ND◆	3386X-102LF-ND◆	3386F-102LF-ND◆	3386P-102LF-ND◆	—	—	3386P-102TLF-ND◆	—
2K	3386C-202LF-ND◆	3386H-202LF-ND◆	3386W-202LF-ND◆	3386X-202LF-ND◆	3386F-202LF-ND◆	3386P-202LF-ND◆	3386R-202LF-ND◆	—	—	—
5K	3386C-502LF-ND◆	3386H-502LF-ND◆	3386W-502LF-ND◆	3386X-502LF-ND◆	3386F-502LF-ND◆	3386P-502LF-ND◆	3386R-502LF-ND◆	3386F-502TLF-ND◆	3386P-502TLF-ND◆	—
10K	3386C-103LF-ND◆	3386H-103LF-ND◆	3386W-103LF-ND◆	3386X-103LF-ND◆	3386F-103-ND†	3386P-103LF-ND◆	3386R-103LF-ND◆	3386F-103TLF-ND◆	3386P-103TLF-ND◆	3386X-103TLF-ND◆
20K	3386C-203LF-ND◆	3386H-203LF-ND◆	3386W-203LF-ND◆	—	3386F-203LF-ND◆	3386P-203LF-ND◆	3386R-203LF-ND◆	3386F-203TLF-ND◆	3386P-203TLF-ND◆	—
25K	3386C-253LF-ND◆	3386H-253LF-ND◆	3386W-253LF-ND◆	3386X-253LF-ND◆	3386F-253LF-ND◆	3386P-253LF-ND◆	3386R-253LF-ND◆	—	—	—
50K	3386C-503LF-ND◆	3386H-503LF-ND◆	3386W-503LF-ND◆	3386X-503LF-ND◆	3386F-503LF-ND◆	3386P-503LF-ND◆	—	—	3386P-503TLF-ND◆	—
100K	3386C-104LF-ND◆	3386H-104LF-ND◆	3386W-104LF-ND◆	3386X-104LF-ND◆	3386F-104LF-ND◆	3386P-104LF-ND◆	3386R-104LF-ND◆	—	3386P-104TLF-ND◆	—
200K	3386C-204LF-ND◆	3386H-204LF-ND◆	—	3386X-204LF-ND◆	3386F-204LF-ND◆	3386P-204LF-ND◆	—	—	—	—
250K	3386C-254LF-ND◆	—	3386W-254LF-ND◆	—	3386F-254-ND†	3386P-254LF-ND◆	—	—	—	—
500K	3386C-504LF-ND◆	3386H-504LF-ND◆	3386W-504LF-ND◆	3386X-504LF-ND◆	3386F-504LF-ND◆	3386P-504LF-ND◆	3386R-504LF-ND◆	—	—	—
1M	3386C-105LF-ND◆	3386H-105LF-ND◆	3386W-105LF-ND◆	3386X-105LF-ND◆	3386F-105LF-ND◆	3386P-105LF-ND◆	3386R-105LF-ND◆	—	—	—
2M	3386C-205LF-ND◆	3386H-205LF-ND◆	3386W-205LF-ND◆	3386X-205LF-ND◆	3386F-205LF-ND◆	3386P-205LF-ND◆	3386R-205LF-ND◆	—	—	—

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 280° • **Power Rating (300V max.):** 85°C = 0.5W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Mechanical Angle:** 310° nominal • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 15.0 oz-inch minimum

Series	Pricing 1	10	50
3386C/3386R	1.43	13.00	55.90
3386F/3386H/3386P/3386W/3386X	1.29	11.75	50.53
3386F/3386P/3386X (with Knob)	2.06	15.75	69.38

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3345 — 1/2" (12.70mm) Round/Single-Turn Wirewound/Industrial/Sealed

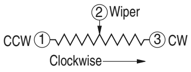

Features

• Industrial wirewound. • 1.0 watt power rating at 70°C

Characteristics:

• **Resistance Tolerance:** ±5% standard **Adjustment Angle:** 280° nominal **Power Rating:** 70°C — 1 watt; 150°C — 0 watt **Temperature Range:** –55°C ~ 150°C **Temperature Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω) **Mechanical Angle:** 310° nominal **Torque:** 5.0 oz-inch maximum **Stop Strength:** 15 oz-inch minimum

Dim. in mm

3345P

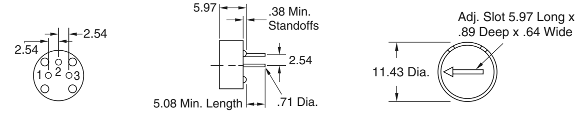

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
50	3345P-500-ND	0.58
100	3345P-101-ND	0.49
200	3345P-201-ND	0.49
500	3345P-501-ND	0.38
1K	3345P-102-ND	0.30
2K	3345P-202-ND	0.24
5K	3345P-502-ND	0.18
10K	3345P-103-ND	0.14
20K	3345P-203-ND	0.13

Series	Pricing 1	10	50
3345P	9.54	86.75	373.03

SERIES 3252 — 1/2" (12.70mm) Square/Multiturn (25) Cermet/Industrial/Sealed

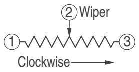

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (400 volts maximum): 85°C — 0.75 watt; 150°C — 0 watt • **Temperature Range:** –65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

Common Dimensions

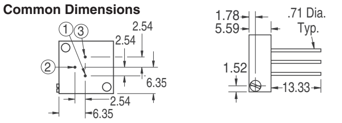

3252P

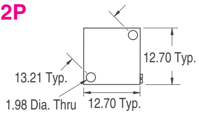

3252W

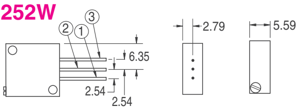

3252X

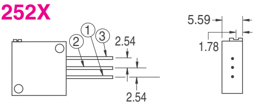

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	—	3252W-101LF-ND	—
200	—	3252W-201LF-ND	—
500	3252P-501LF-ND	3252W-501LF-ND	—
1K	—	3252W-102LF-ND	—
2K	—	3252W-202LF-ND	3252X-202LF-ND
5K	—	3252W-502LF-ND	3252X-502LF-ND
10K	—	3252W-103LF-ND	3252X-103LF-ND
20K	—	3252W-203LF-ND	—
50K	—	3252W-503LF-ND	—
100K	—	3252W-104LF-ND	—
200K	3252P-204LF-ND	3252W-204LF-ND	—

Series	Pricing 1	10	50
3252P/3252W/3252X	14.44	131.25	564.38

SERIES 3250 —
1/2" (12.70mm) Square/Multiturn (25) Wirewound/Sealed

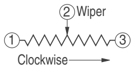

Characteristics: • **Resistance Tolerance:** ±5% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 25 turns nominal • **Power Rating:** 85°C = 1W; 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±70 ppm/°C • **Load Life:** 1,000 hours 1 watt @ 85°C (2% ΔTR; ENR, 500Ω) • **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Resolution (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3250W-201-ND	0.70
500	3250W-501-ND	0.30
5K	3250W-502-ND	0.25
10K	3250W-103-ND	0.19
20K	3250W-203-ND	0.16

Series	Pricing 1	10	50
3250W	14.55	132.25	568.68

3250W Dim. in mm

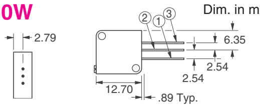

SERIES 3006 — 3/4" (19.05mm)
Rectangular/Multiturn (15) Cermet/Industrial/Sealed

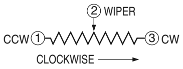

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum. • **Adjustment Angle:** 15 turns nominal • **Power Rating** (400 volts maximum): 70°C – 0.75 watt; 150°C – 0 watt • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75 watt @ 70°C (4% ΔTR) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

Common Dimensions

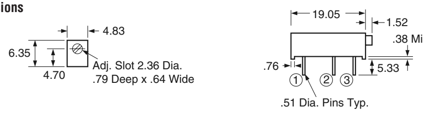

3006P

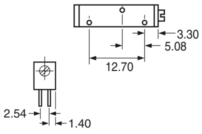

3006W

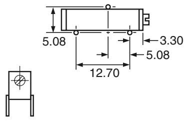

3006Y

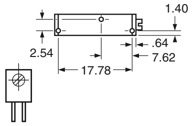

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3006P-101LF-ND◆	3006W-101LF-ND◆	3006Y-101LF-ND◆
200	3006P-201LF-ND◆	3006W-201-ND†	3006Y-201LF-ND◆
500	3006P-501-ND†	3006W-501LF-ND◆	3006Y-501LF-ND◆
1K	3006P-102LF-ND◆	3006W-102LF-ND◆	3006Y-102LF-ND◆
2K	3006P-202LF-ND◆	3006W-202LF-ND◆	3006Y-202LF-ND◆
5K	3006P-502LF-ND◆	3006W-502LF-ND◆	3006Y-502LF-ND◆
10K	3006P-103LF-ND◆	3006W-103LF-ND◆	3006Y-103LF-ND◆
20K	3006P-203LF-ND◆	3006W-203LF-ND◆	3006Y-203LF-ND◆
25K	3006P-253LF-ND◆	—	3006Y-253LF-ND◆
50K	3006P-503LF-ND◆	3006W-503LF-ND◆	3006Y-503LF-ND◆
100K	3006P-104LF-ND◆	3006W-104LF-ND◆	3006Y-104-ND†
200K	3006P-204LF-ND◆	3006W-204LF-ND◆	3006Y-204LF-ND◆
250K	3006P-254LF-ND◆	—	3006Y-254LF-ND◆
500K	3006P-504LF-ND◆	3006W-504LF-ND◆	3006Y-504LF-ND◆
1M	3006P-105-ND†	3006W-105LF-ND◆	—
2M	3006P-205LF-ND◆	—	—

Series	Pricing 1	10	50
3006P	1.73	15.75	67.73
3006W/3006Y	1.87	17.00	73.10

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3005 —
3/4" (19.05mm) Rectangular/Multiturn (20) Wirewound/Industrial/Sealed

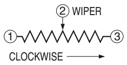

Sealed to prevent contamination from fluxing, soldering and cleaning.

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 20 turns nominal • **Power Rating:** 70°C — 1 watt; 125°C — 0 watt • **Temperature Range:** –65°C ~ 125°C • **Temperature Coefficient:** ±50ppm/°C • **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR) • **Rotational Life:** 200 cycles (4% ΔTR) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3005P-201-ND	0.7
500	3005P-501-ND	0.5
1K	3005P-102-ND◆	0.5
2K	3005P-202-ND	0.4
5K	3005P-502-ND◆	0.3
10K	3005P-103-ND◆	0.3
20K	3005P-203-ND◆	0.2

Series	Pricing 1	10	50
3005P	11.22	102.00	438.60

◆ ***RoHS Compliant***

3005P Dim. in mm

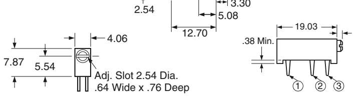

SERIES 3009 — 3/4" (19.05mm)
Rectangular/ Multiturn (15) Cermet/ Industrial/Sealed

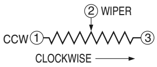

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 15 turns nominal • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75W @ 70°C (4% ΔTR) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3009P-101LF-ND	—
200	3009P-201LF-ND	—
500	3009P-501LF-ND	3009Y-501LF-ND
1K	3009P-102LF-ND	3009Y-102LF-ND
2K	3009P-202LF-ND	3009Y-202LF-ND
5K	3009P-502LF-ND	3009Y-502LF-ND
10K	3009P-103LF-ND	3009Y-103LF-ND
20K	3009P-203LF-ND	3009Y-203LF-ND
25K	3009P-253LF-ND	—
50K	3009P-503LF-ND	3009Y-503LF-ND
100K	3009P-104LF-ND	3009Y-104LF-ND
200K	3009P-204LF-ND	—
500K	3009P-504LF-ND	3009Y-504LF-ND
1M	3009P-105LF-ND	—

Series	Pricing 1	10	50
3009P/3009Y	2.72	24.75	106.43

Dim. in mm

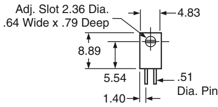

3009P

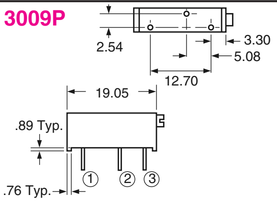

3009Y

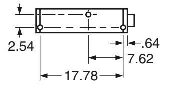

SERIES 3057 —
1-1/4" (31.75mm) Rectangular/ Multiturn (22) Wirewound/ Industrial/Sealed

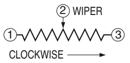

3057Y Dim. in mm

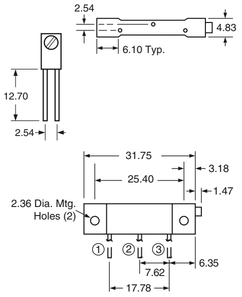

Characteristics: • **Resistance Tolerance:** ±5%Typical • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 22 turns nominal • **Power Rating:** 70°C - 1 watt; 150°C - 0 watt • **Temp. Range:** -55°C ~ 150°C. • **Temp. Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C (2% ΔTR) • **Rotational Life:** 200 cycles (2% ΔTR) **Torque:** 5.0 oz-in. maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3057Y-201-ND	0.86
500	3057Y-501-ND	0.89
1K	3057Y-102-ND	0.72
2K	3057Y-202-ND	0.58
5K	3057Y-502-ND	0.43
10K	3057Y-103-ND	0.34
20K	3057Y-203-ND	0.31

Series	Pricing 1	10	50
3057Y	19.06	173.25	744.98

SERIES 3059 —
1-1/4" (31.75mm) Rectangular/Multiturn (22) Cermet/Industrial/Sealed

Characteristics:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 22 turns nominal • **Power Rating:** 70°C = 1W; 150°C = 0W • **Temperature Range:** -55°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 1 Watt @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3059P

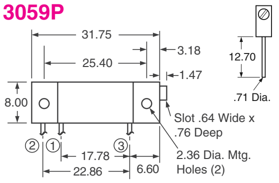

3059Y

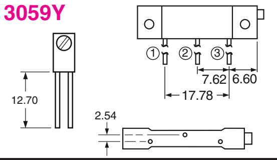

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	—	3059Y-101LF-ND
1K	3059P-102LF-ND	3059Y-102LF-ND
5K	3059P-502LF-ND	3059Y-502LF-ND
10K	—	3059Y-103LF-ND
20K	3059P-203LF-ND	3059Y-203LF-ND
50K	3059P-503LF-ND	3059Y-503LF-ND
100K	3059P-104LF-ND	3059Y-104LF-ND
200K	—	3059Y-204LF-ND
500K	—	3059Y-504LF-ND

Series	Pricing 1	10	50
3059P/3059Y	6.49	59.00	253.70

BOURNS® Precision Potentiometers

SERIES 39 — 1/2" (12.5mm)
Single-Turn Conductive Plastic

Characteristics:
• Total Resistance Tolerance: ±20% • End Resistance: 2Ω maximum • Effective Electrical Angle: Momentary Push Switch Type (Bushing Type "L") 201°±5% • Contact Resistance Variation: 3% maximum • Dielectric Withstanding Voltage: 750 VRMS minimum • Insulation Resistance: 100MΩ minimum • Power Rating @70°C Linear Taper: 0.25 watt

Momentary Push Switch Type (SPST N.O.):
• Power Rating (Resistive Load): 250mA @ 12VDC • Contact Resistance @ 10mA (with 500gm Shaft Load): 50Ω maximum • Contact Bounce: 5 milliseconds • Actuation Force: 500 ±100 grams

Environmental Characteristics:
• Rotation Life (No Load): 50,000 Cycles; Momentary Push Switch Type: 50,000 cycles

Dim. in mm

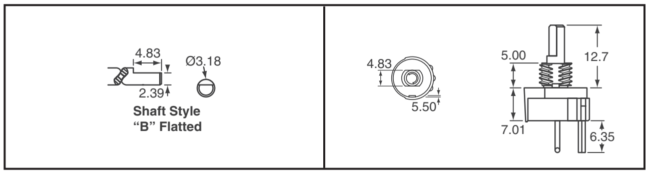

Shaft Style	Ω	Shaft Dia. x Length	Switch Type	Digi-Key Part No.	Price Each 1	25	50
B	10K	1/8" x 1/2"	Momentary Push	39LB-1PB-103-ND	7.95	5.41	5.09

SERIES 50 — Sealed 1/2" (12.5mm)
Square Control

Characteristics: • Effective Electrical Angle: 270° ±5° • Contact Resistance Variation: 2.0% • Dielectric Withstanding Voltage: Sea Level: 1,500VAC minimum; 70,000 Feet: 500VAC minimum • Insulation Resistance: 1,000MΩ minimum **Mounting hardware included**

Dim. in mm

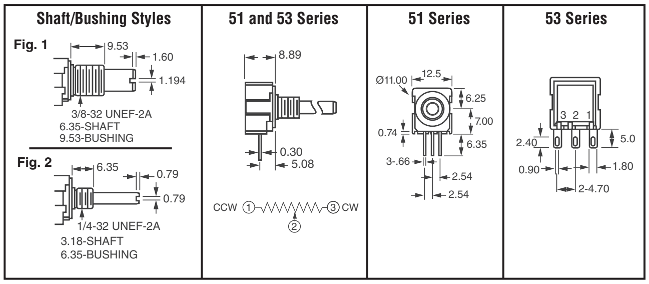

Bush. Fig.	Taper	Resistance Tolerance	Ω	Watts	Element Material	Digi-Key Part No.	Price Each 1	25	50	100
2	Linear	±10%	1K	1	Cermet	51CAD-E28-A10L-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	5K	1	Cermet	51CAD-E28-A13L-ND	7.39	5.75	4.70	3.98
1	Audio	±20%	10K	1/4	Conductive Plastic	51AAD-B28-D15L-ND	7.97	6.21	5.07	4.29
2	Audio	±20%	10K	1/4	Conductive Plastic	51CAD-E28-D15L-ND	7.97	6.21	5.07	4.29
2	Linear	±20%	10K	1/2	Conductive Plastic	51CAD-E24-B15L-ND	7.39	5.75	4.70	3.98
1	Linear	±10%	10K	1	Cermet	51AAD-B24-A15L-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	10K	1	Cermet	51CAD-E24-A15L-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	100K	1	Cermet	51CAD-E28-A20L-ND	7.39	5.75	4.70	3.98
1	Linear	±20%	10K	1/2	Conductive Plastic	53AAA-B28-B15L-ND	8.51	6.64	5.42	4.59

SERIES 81 — 2 Watt Cermet -
5/8" Square Single-Turn

• Resistance Tolerance: ±10% • Continuity: Maintained for full mechanical angle • Effective Electrical Angle: 240° ±6° • Contact Resistance Variation: ±1% or 3Ω (whichever is greater) • Theoretical Resolution: Essentially Infinite • Dielectric Withstanding Voltage: MIL-STD-202, Method 301 (Sea Level: 1500VAC minimum; 70,000 Feet: 500VAC minimum) • Insulation Resistance (500 VDC): 1,000MΩ minimum
Mounting hardware included

Dim. in mm

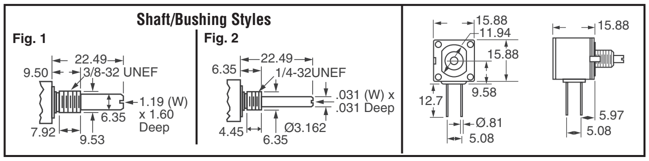

Bushing Fig.	Ω	Digi-Key Part No.	Price Each 1	25	50	100
1	1K	81A1A-B28-A10L-ND	9.02	7.02	5.74	4.85
1	5K	81A1A-B28-A13L-ND	9.02	7.02	5.74	4.85
2	5K	81C1A-E28-A13L-ND	9.02	7.02	5.74	4.85
1	10K	81A1A-B28-A15L-ND	9.02	7.02	5.74	4.85
2	10K	81C1A-E28-A15L-ND	9.02	7.02	5.74	4.85
2	100K	81C1A-E28-A20L-ND	9.02	7.02	5.74	4.85

SERIES 91 — 5/8" Square Single-Turn
Conductive Plastic - Bushing Mount

Dim. in mm

- Resistance Tolerance: ±20%
- Continuity: Maintained for full mechanical angle
- Effective Electrical Angle: Linear Tapers: 240° ±5°, Audio Tapers: 225° ±5°
- Contact Resistance Variation: ±1%
- Dielectric Withstanding Voltage: MIL-STD-202, Method 301 (Sea Level: 1,500VAC min.; 70,000 Feet: 500VAC min.)
- Insulation Resistance (500 VDC): 1,000MΩ min.
- Theoretical Resolution: Essentially infinite

Mounting hardware included

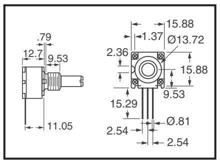

Taper	Ω	Watts	Shaft Length From Mtg. Surface Inches (mm)	Digi-Key Part No.	Price Each 1	25	50	100
Linear	1K	1/2	7/8" (22.23)	91A1A-B28-B10L-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	3/4" (19.05)	91A1A-B24-B13L-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	7/8" (22.23)	91A1A-B28-B13L-ND	4.74	3.69	3.01	2.55
Audio	10K	1/4	3/4" (19.05)	91A1A-B24-D15L-ND	5.37	4.18	3.42	2.89
Linear	10K	1/2	3/4" (19.05)	91A1A-B24-B15L-ND	4.74	3.69	3.01	2.55
Linear	10K	1/2	7/8" (22.23)	91A1A-B28-B15L-ND	4.74	3.69	3.01	2.55
Linear	10K	1/2	3/4" (19.05)	91A1A-G24-B15L-ND	7.11	5.54	4.52	3.83
Linear	10K	1/2	7/8" (22.23)	91A1A-G28-B15L-ND	7.11	5.54	4.52	3.83
Linear	10K	1/2	7/8" (22.23)	91A1A-H28-B15L-ND	7.91	6.16	5.03	4.26
Linear	10K	1/2	22 mm	91R1A-J22-B15L-ND	7.11	5.54	4.52	3.83

SERIES 3590 — 2 Watt - 10 Turn Wirewound

- Resistance Tolerance: ±5%
- Effective Electrical Angle: 3600° +10°, -0°
- Dielectric Withstanding Voltage: MIL-STD-202, Method 301 (Sea Level: 2,000VAC minimum)
- Insulation Resistance (500 VDC): 1,000MΩ minimum

Mounting hardware included

Dim. in mm

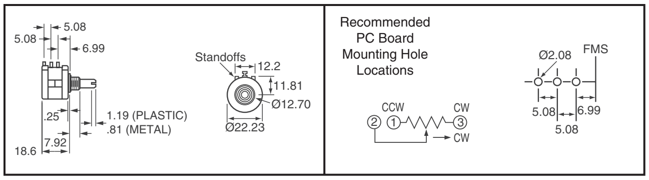

Ω	Resolution %	Bushing Type & Dim.	Shaft Diameter Inches (mm)	Digi-Key Part No.	Price Each 1	50	100	500
2K	.023	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-202L-ND	10.02	8.12	7.41	7.02
5K	.025	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-502L-ND	10.02	8.12	7.41	7.02
20K	.016	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-203L-ND	10.02	8.12	7.41	7.02
50K	.013	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-503L-ND	12.10	9.80	8.95	8.47
100K	.009	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-104L-ND	12.98	10.51	9.61	9.10
500	.033	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-501L-ND	10.02	8.12	7.41	7.02
1K	.029	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-102L-ND	10.02	8.12	7.41	7.01
2K	.023	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-202L-ND	10.02	8.12	7.41	7.02
5K	.025	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-502L-ND	10.02	8.12	7.41	7.02
10K	.020	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-103L-ND	10.02	8.12	7.41	7.02
20K	.016	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-203L-ND	10.02	8.12	7.41	7.02
50K	.013	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-503L-ND	12.10	9.80	8.95	8.47
100K	.009	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-104L-ND	12.98	10.51	9.61	9.10

SERIES 3862 — 1 Watt Cermet 1/2"
Diameter Single-Turn Panel Control

Dim. in mm

- Resistance Tolerance: ±10%
- Continuity: Maintained for full mechanical angle
- Effective Electrical Angle: 260° ±10°
- Contact Resistance Variation: ±3% of total resistance
- Theoretical Resolution: Essentially infinite
- Dielectric Withstanding Voltage: MIL-STD-202, Method 301 (Sea Level: 750VAC min.; 70,000 Feet: 350VAC max.)
- Insulation Resistance (500 VDC): 1,000MΩ min.

Mounting hardware included

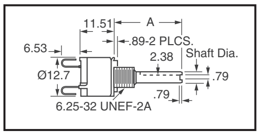

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
10K	12.7	3.18	3862C-162-103AL-ND	14.69	11.44	9.34	7.90	7.35
	22.20	3.18	3862C-282-103AL-ND	14.69	11.44	9.34	7.90	7.35

SERIES 3540/3541 — 2 Watt - 10 Turn Wirewound/ Hybritron®

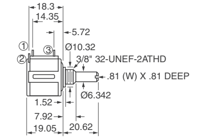

- **Resistance Tolerance:** ±5% for 3540 series ±10% for 3541 series
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000VAC minimum)
- **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included

Ω	Resolution %	Digi-Key Part No.	Price Each 1	50	100	500
		Wirewound				
200	.042	3540S-1-201L-ND	17.22	14.04	12.66	12.06
500	.031	3540S-1-501L-ND	17.22	14.04	12.66	12.06
1K	.027	3540S-1-102L-ND	17.22	14.04	12.66	12.06
2K	.021	3540S-1-202L-ND	17.22	14.04	12.66	12.06
5K	.021	3540S-1-502L-ND	17.22	14.04	12.66	12.06
10K	.019	3540S-1-103L-ND	17.22	14.04	12.66	12.06
20K	.014	3540S-1-203L-ND	17.22	14.04	12.66	12.06
50K	.011	3540S-1-503L-ND	19.16	15.62	14.09	13.42
100K	.008	3540S-1-104L-ND	21.52	17.54	15.82	15.07
		Hybritron				
1K	Essentially Infinite	3541H-1-102L-ND	36.40	29.67	26.76	25.48
2K	Essentially Infinite	3541H-1-202L-ND	36.40	29.67	26.76	25.48
5K	Essentially Infinite	3541H-1-502L-ND	36.40	29.67	26.76	25.48
10K	Essentially Infinite	3541H-1-103L-ND	36.40	29.67	26.76	25.48
20K	Essentially Infinite	3541H-1-203L-ND	36.40	29.67	26.76	25.48
50K	Essentially Infinite	3541H-1-503L-ND	38.02	30.99	27.95	26.62
100K	Essentially Infinite	3541H-1-104L-ND	40.02	32.62	29.42	28.02

SERIES 3852 — 2 Watt Cermet 3/4" – (19.05mm) Diameter Panel Control

- **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 250° ±5° • **Contact Resistance Variation:** ±3% of total resistance or 3Ω (whichever is greater) • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 900VAC minimum; 70,000 Feet: 350VAC minimum) • **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included

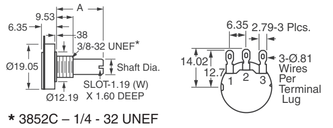

* 3852C – 1/4 - 32 UNEF

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
1K	12.7	6.35	3852A-162-102AL-ND	9.16	7.12	5.83	4.93	4.58
1K	22.20	6.35	3852A-282-102AL-ND	9.16	7.12	5.83	4.93	4.58
5K	22.20	6.35	3852A-282-502AL-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	6.35	3852A-282-103AL-ND	9.16	7.12	5.83	4.93	4.58
10K	12.7	6.35	3852A-162-103AL-ND	9.16	7.12	5.83	4.93	4.58
100K	22.20	6.35	3852A-282-104AL-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	3.18	3852C-282-103AL-ND	9.16	7.12	5.83	4.93	4.58

SERIES 6639 — 1 Watt Conductive Plastic - Bushing Mount

- **Resistance Tolerance:** Standard ±15% • **Resolution:** Essentially infinite
- **Effective Electrical Angle:** 340° +3° • **End Voltage:** 0.5% maximum
- **Output Smoothness:** 0.1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750VAC minimum) • **Insulation Resistance (500 VDC):** 500MΩ minimum ***Mounting hardware included***

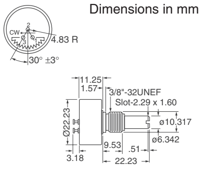

Ω	Digi-Key Part No.	Price Each 1	50	100	500
1K	6639S-1-102-ND	11.46	9.29	8.48	8.30
5K	6639S-1-502-ND	11.46	9.29	8.48	8.30
10K	6639S-1-103-ND	11.46	9.29	8.48	8.30

SERIES 3382 12mm Rotary Position Sensor

Digi-Reel®

Features:
- Surface Mount and Through-Hole versions
- 12 mm Square / Dustproof • Thin profile

Applications:
- Volume control on audio equipment
- Motion controllers
- Dishwasher control systems
- Automotive temperature range

Fig. 1 — 3382G — Surface Mount

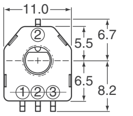

Fig. 2 — 3382H — Through-Hole

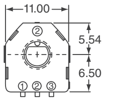

Dimensions in mm

Fig.	Ω	Linearity	Adjustment Angle	Rotational Life (cycles)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel‡ Pricing 1,000
1	2.5K	±2%	330° nom	1,000,000	3382G-1-252GCT-ND†	1.71	1.55	1.43	1240.00
	5K	±2%	330° nom	1,000,000	3382G-1-502GCT-ND†	1.71	1.55	1.43	1240.00
	10K	±2%	330° nom	1,000,000	3382G-1-103GCT-ND†	1.71	1.55	1.43	1240.00
1	25K	±2%	330° nom	1,000,000	3382G-1-253GCT-ND†	1.71	1.55	1.43	1240.00
	50K	±2%	330° nom	1,000,000	3382G-1-503GCT-ND†	1.71	1.55	1.43	1240.00
	100K	±2%	330° nom	1,000,000	3382G-1-104GCT-ND†	1.71	1.55	1.43	1240.00
2	2.5K	±2%	330° nom	1,000,000	3382H-1-252-ND	1.98	1.80	1.26	—
	5K	±2%	330° nom	1,000,000	3382H-1-502-ND	1.98	1.80	1.26	—
	10K	±2%	330° nom	1,000,000	3382H-1-103-ND	1.98	1.80	1.26	—
	25K	±2%	330° nom	1,000,000	3382H-1-253-ND	1.98	1.80	1.26	—
	50K	±2%	330° nom	1,000,000	3382H-1-503-ND	1.98	1.80	1.26	—
	100K	±2%	330° nom	1,000,000	3382H-1-104-ND	1.98	1.80	1.26	—

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

SERIES H-22, H-23, H-46, CT-23 and CT-26 Turns-Counting Dials

H-22 and H-23 Series

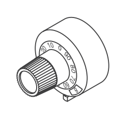

H-46 Series

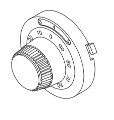

CT-23 Series

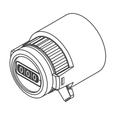

CT-26 Series

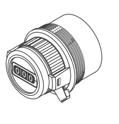

Turns	Read Out	Division/ Turn	Brake	Dia. (mm)	Accepts Shaft Dia. (mm)	Body/ Face Finish	Digi-Key Part No.	Price Each 1	25	50
						H-22 Series				
0-15	Analog	50	Yes	22	6.35	Black on Satin Chrome	H-22-6A-ND	8.54	8.12	7.69
	Analog	50	Yes	22	6.35	All Black	H-22-6A-B-ND	11.54	8.88	7.85
	Analog	50	Yes	22	6.00	Black on Satin Chrome	H-22-6M-ND	11.54	8.88	7.85
	Analog	50	Yes	22	6.35	Satin Body/ Black Dial	H-22-6A-SB-ND✔	8.54	8.12	7.69
						H-23 Series				
0-15	Analog	50	Yes	22	6.35	Black on Polished Chrome	H-23-6A-ND	11.54	8.88	7.85
	Analog	50	Yes	22	6.00	Black on Polished Chrome	H-23-6M-ND	11.54	8.88	7.85
						H-46 Series				
0-20	Analog	100	Yes	46	6.35	Black on Satin Chrome	H-46-6A-ND	16.90	16.06	15.21
						CT-23 Series				
0-10	Digital	50	Yes	27	6.35	Black Knurl with Satin Chrome Face	CT-23-6A-ND	20.42	15.63	14.81
						CT-26 Series				
0-10	Digital	50	Yes	28	6.35	Black Knurl with Satin Chrome Face	CT-26-6A-ND	20.42	15.63	14.81
	Digital	50	Yes	28	6.00	Black Knurl with Satin Chrome Face	CT-26-6M-ND	20.42	15.63	14.81

✔ NEW!

SERIES 3500 2 Watt - 10 Turn Wirewound

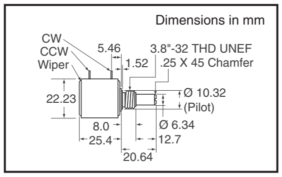

- **Resistance Tolerance:** ±3%
- **Independent Linearity:** ±0.20%
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea level: 1,500VAC minimum); 70,000 Feet: 400VAC minimum
- **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included

Ω	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
1K	.030	3500S-2-102L-ND	41.75	33.82	30.91	29.23	27.15
5K	.018	3500S-2-502L-ND	41.75	33.82	30.91	29.23	27.15
10K	.019	3500S-2-103L-ND	41.75	33.82	30.91	29.23	27.15

SERIES 3680 2 Watt Pushbutton Cermet

- **Resistance Tolerance:** ±3%
- **Resolution:** 3682: 1%; 3683: 0.1%
- **Power Rating:** +25°C: 2 Watts
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1000VAC minimum)

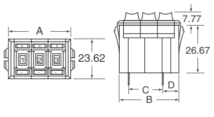

Ω	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	500	1,000
10K	26.67	25.15	10.67	11.94	3682S-1-103L-ND	27.34	22.14	20.23	19.14	17.78
1K	37.08	35.31	18.54	11.94	3683S-1-102L-ND	40.46	32.77	29.94	28.32	26.30
5K	37.08	35.31	18.54	11.94	3683S-1-502L-ND	40.46	32.77	29.94	28.32	26.30
10K	37.08	35.31	18.54	11.94	3683S-1-103L-ND	40.46	32.77	29.94	28.32	26.30

Honeywell
Sensing and Control

CLAROSTAT

Dual Carbon Potentiometers — 1/20 Watt SERIES 585DX and 585SX

585SX Series: RESISTANCE CODE CHART (Resistance Value)

Code (Value)	Code (Value)	Code (Value)
102 (1K)	502 (5K)	103 (10K)

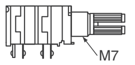

Resistance Range (Ω)	Taper	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
5K	Audio	585DX4Q25F502ZP-ND	3.11	2.13	1.92	1.80	585DX4Q25F502ZP
10K	Linear	585DX4Q25F103SP-ND	3.11	2.13	1.92	1.80	585DX4Q25F103SP
10K	Audio	585SX4Q25F103ZP-ND	3.12	2.03	1.84	1.66	585SX4Q25F103ZP
1K ~ 10K	Linear	585SX4Q25F(Code)SP-ND	3.12	2.03	1.84	1.66	585SX4Q25F(Code)SP

† For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers — 1/4 Watt SERIES 574SFx, 575SSx

• **Resistance Tolerance:** ±20% • **Power Rating (Watts):** 0.25W at 70°C • **Mechanical and Electrical Rotation:** 300° ±5° • **Working Voltage:** 350VAC maximum • **Effective Rotation:** 270°
Hardware not included.

RESISTANCE CODE CHART (Resistance Value — Linear)

Code (Value)	Code (Value)
102 (1K) 103 (10K)	503 (50K) 104 (100K)

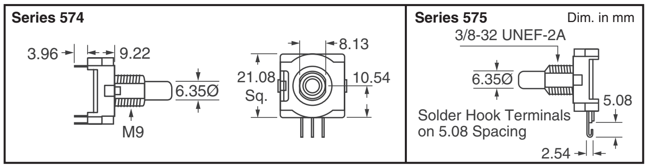

Resistance Range (Ω)	Shaft Type	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
10K ~ 100K	Flatted	574SF(Code)-ND	5.17	3.54	3.19	2.98	574SX1M48F(Code)SD
10K ~ 100K	Slotted	574SS(Code)-ND	5.11	3.50	3.15	2.95	574SX1M48S(Code)SD
1K ~ 50K	Flatted	575SF(Code)-ND	3.66	2.51	2.26	2.11	575SX1A48F(Code)SS
1K ~ 50K	Slotted	575SS(Code)-ND	3.22	2.21	1.98	1.86	575SX1A48S(Code)SS
Mounting Nut (574 Series)		D02318603-ND	—	.19	.16	.14	D02318603
Mounting Nut (575 Series)		01051301-ND	—	.53	.45	.40	D01051301
Lock Washer		01070602-ND	—	.60	.50	.45	D01070602

† For complete part number, substitute corresponding code from Resistance Code Chart.

Washable, Conductive Plastic Potentiometers — 1/2 Watt SERIES 392JA and 392JB

• **Power Rating:** .5 watt at 70°C, voltage not to exceed rating • **Electrical/Mechanical Rotation:** 295° ±5° • **Effective Rotation:** 265° +0°, -10° • **Resistance Tolerance:** ±10% through 500K. ±20% at 1MEG • **Dielectric Strength:** 750VAC for 60 seconds, at ATM pressure. 350VAC for 60 seconds, 3.4 in. Hg. • **Working Voltage:** 350VDC across terminals, but power not to exceed rating • **Operational Temperature Range:** -40°C ~ 120°C

Dim. in mm

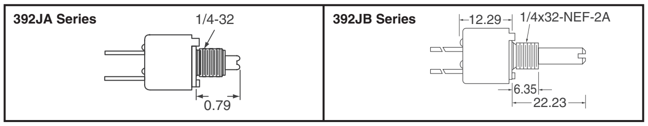

RESISTANCE CODE CHARTS (Resistance Value — Linear)

392JA SERIES

Code (Value)	Code (Value)
251 (250) 501 (500) 503 (50K)	505 (5MEG)

392JB SERIES

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K)	103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K)	105 (1MEG)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
250 ~ 5MEG	392JA(Code)-ND◆	8.57	6.28	5.88	5.55	392JA(Value)
100 ~ 1MEG	392JB(Code)-ND	7.59	5.20	4.68	4.38	392JB(Value)

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers — 1/2 Watt SERIES 408NS and 590SX

• **Resistance Tolerance:** ±10% • **Power Rating (Watts):** 0.5W at 70°C • **Mechanical and Electrical Rotation:** 295° ±5° • **Working Voltage:** 350VAC maximum across end terminals, but within power rating • **Effective Rotation:** 265° ±5° *Hardware included.*

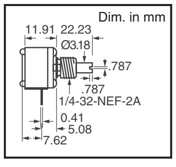

RESISTANCE CODE CHART (Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
102 (1K)	502 (5K)	103 (10K)◆

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
10K	408NS10K-ND◆	21.76	17.31	16.22	15.52	408NS10K
1K ~ 10K	590SX(Code)-ND	7.18	5.25	4.92	4.65	590SX1N56S(Code)SP

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.

Potentiometers — 1/2 Watt, 1 Watt SERIES 308N, 308NPC and 309NPC

• **Resistance Tolerance:** ±10% up to 500K. ±20% above • **Electrical and Mechanical Rotation:** 295° ±5° • **Dielectric Strength:** 750VAC (308 Series), 900VAC (309 Series), for 60 SEC ATM • **Working Voltage:** 350VDC across terminals • **Power Rating:** .5 watt at 70°C (308 Series), 1 watt at 150°C (309 Series) • **Operating Temperature:** -40° ~ 120°C (308 Series), -40°C ~ 150°C (309 Series) • **Rotational Life:** 50,000 cycles under load (308 Series), 25,000 cycles under load (309 Series)

RESISTANCE CODE CHART (Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100)	502 (5K)	254 (250K)
251 (250)	103 (10K)	504 (500K)
501 (500)	253 (25K)	105 (1MEG)
102 (1K)	503 (50K)	255 (2.5MEG)
252 (2.5K)	104 (100K)	505 (5MEG)

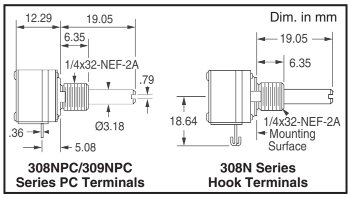

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
Conductive Plastic						
100 ~ 5MEG	308N(Code)-ND	8.25	6.04	5.65	5.34	308N(Value)
100 ~ 1MEG	308NPC(Code)-ND	8.42	6.16	5.77	5.45	308NPC(Value)
Cermet						
100 ~ 5MEG	309NPC(Code)-ND	9.68	7.09	6.64	6.27	309NPC(Value)
2.5K	309NPC2500-ND◆	9.05	6.62	6.20	5.86	309NPC2.5K

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.
N = Shaft: 1/8 in. (3.18mm) diameter x 3/4 in. (19.05mm)

Dual Conductive Plastic Potentiometers — 1 Watt

SERIES D381N

Resistance Value — Linear

Value
5K
10K

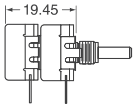

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
5K ~ 10K	D381N(Value)-ND	27.26	21.68	20.32	19.44	D381N(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Conductive Plastic Potentiometers — 1 Watt

SERIES 381L, 381N, 381NS

Resistance Value

381L SERIES

Value	Value
100	25K
500	50K
5K	100K
10K	500K

381NS SERIES

Value	Value
1000	100K
5K	1MEG
10K	
50K	

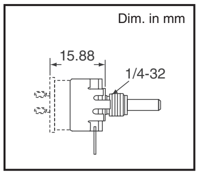

Resistance Range (Ω)	Taper	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
100 ~ 500K	Linear	381L(Value)-ND	18.06	13.83	13.06	12.24	381L(Value)
10K	Audio	381N10KZ-ND	13.95	10.68	10.09	9.45	381N10KZ
1000 ~ 1MEG	Linear	381NS(Value)-ND	32.22	25.64	24.02	22.98	381NS(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Conductive Plastic Potentiometers — 1 Watt SERIES 381

The “Quiet One” with 1% dynamic noise and 5% independent linearity.

Specifications:

• **Resistance Tolerance:** Linear: ±10% up to 500K; ±20% above 500K • **Power Rating (Watts):** 1W at 70°C, voltage not to exceed rating • **Mechanical and Electrical Rotation:** 300° ±5° without switch • **Working Voltage:** 350VDC across end terminals, but power not to exceed rating • **Effective Rotation:** 270° +0° -10° • **Dielectric Strength:** 1,000VAC for 60 Seconds ATM

RESISTANCE CODE CHART (Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100)	103 (10K)	504 (500K)
501 (500)	253 (25K)	105 (1MEG)
102 (1K)	503 (50K)	255 (2.5MEG)
252 (2.5K)	104 (100K)	505 (5MEG)
502 (5K)	254 (250K)	

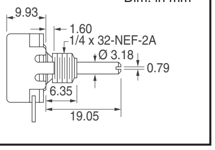

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	50	Honeywell Part No.
100 ~ 5MEG	381N(Code)-ND	13.56	10.38	9.81	9.19	381N(Value)

† For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers

2 Watt — SERIES 380C1, 380C2, 380C3

Dim. in mm

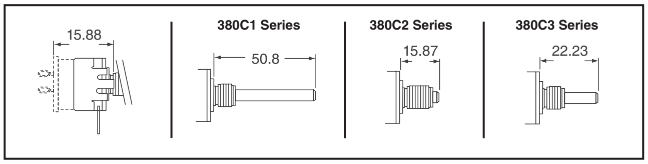

Resistance Value — Linear

380C1 SERIES

Value	Value	Value
100	2500	50K
250	5000	100K
500	10K	500K
1000	25K	1MEG

380C2 SERIES

Value
1000
10K
5000

380C3 SERIES

Value	Value	Value
100	5000	100K
500	10K	500K
1000	25K	1MEG
2500	50K	

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
100 ~ 1MEG	380C1(Value)-ND	12.23	9.37	8.85	380C1(Value)
1000 ~ 5000	380C2(Value)-ND	14.70	11.26	10.63	380C2(Value)
100 ~ 1MEG	380C3(Value)-ND	11.75	9.00	8.50	380C3(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Wire Wound Potentiometers

2 Watt — SERIES 43C1, 43C2

Dim. in mm

Resistance Value — Linear

43C1 SERIES

Value	Value
10	10K
100	20K
5K	25K

43C2 SERIES

Value
5K
10K

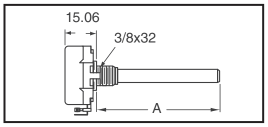

Resistance Range (Ω)	Dimensions (mm) A	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
10 ~ 25K	50.80	43C1(Value)-ND	37.37	29.73	27.86	43C1(Value)
5K ~ 10K	15.88	43C2(Value)-ND	46.13	36.70	34.38	43C2(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Conductive Plastic Potentiometers

2 Watt — SERIES 53C1, 53C2, 53C3

Dim. in mm

Resistance Value — Linear

53C1 SERIES

Value	Value
1K	500K
2K	1MEG
250K	5MEG

53C2 SERIES

Value
250
2K

53C3 SERIES

Value
15K
5MEG

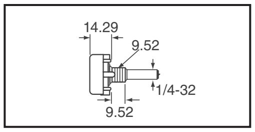

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
1K ~ 5MEG	53C1(Value)-ND	8.46	6.19	5.80	53C1(Value)
250 ~ 2K	53C2(Value)-ND	8.62	6.31	5.91	53C2(Value)
15K ~ 5MEG	53C3(Value)-ND	8.34	6.10	5.71	53C3(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Wire Wound Potentiometers

2 Watt — SERIES 62JA

Dim. in mm

Resistance Value — Linear

Value	Value	Value
100	2K	50K
200	2500	100K
500	10K	
1K	25K	

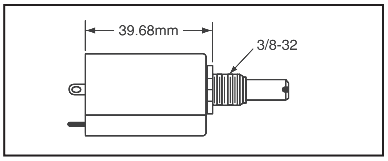

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
100 ~ 100K	62JA(Value)-ND	135.80	114.99	110.51	62JA(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Wire Wound Potentiometers

2 Watt — SERIES A43

Dim. in mm

Resistance Value — Linear

Value	Value
5	1K
25	2K
50	5K
100	10K
500	

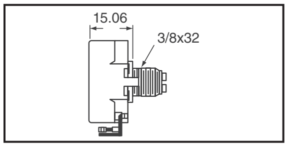

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
5	A435HC-ND	30.09	23.94	22.43	A435
25 ~ 10K	A43(Value)-ND	30.09	23.94	22.43	A43(Value)
2" Shaft	RS-2-ND	4.12	2.82	2.54	RS-2
3" Shaft	RS-3-ND	4.12	2.82	2.54	RS-3

† For complete part number, substitute corresponding value from Resistance Value Chart.

Wire Wound Potentiometers

2 Watt — SERIES RA20LASB, RA20NASD

Dim. in mm

RESISTANCE CODE CHARTS
(Resistance Value — Linear)

RA20LASB SERIES

Code (Value)
501 (500)◆
502 (5K)
103 (10K)◆

RA20NASD SERIES

Code (Value)	Code (Value)
102 (1K)◆	502 (5K)
202 (2K)◆	103 (10K)
252 (2.5K)◆	

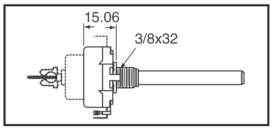

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
500 ~ 10K	RA20LASB(Code)A-ND	38.67	30.77	28.83	RA20LASB(Code)A
1K ~ 10K	RA20NASD(Code)A-ND	34.90	27.76	26.01	RA20NASD(Code)A

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.

Carbon Composition Potentiometers

2.25 Watt — SERIES JA1N056S

Dim. in mm

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100)	502 (5K)	253 (25K)
251 (250)	103 (10K)	503 (50K)
102 (1K)	203 (20K)	

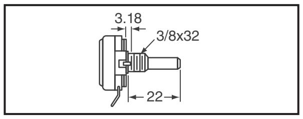

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
100 ~ 50K	JA1N056S(Code)UA-ND	41.62	33.11	31.02	JA1N056SB(Code)UA

† For complete part number, substitute corresponding code from Resistance Code Chart.

Wire Wound Potentiometers

4 Watt — SERIES 58C1

Dim. in mm

Resistance Value —
Linear

Value	Value
100	1K
200	2K
500	5K

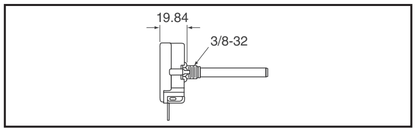

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
100 ~ 5K	58C1(Value)-ND	50.96	40.54	37.98	58C1(Value)

† For complete part number, substitute corresponding value from Resistance Value Chart.

Wire Wound Potentiometers

4 Watt — SERIES RA30LASB, RA30NASD

Dim. in mm

RESISTANCE CODE CHART
(Resistance Value — Linear)
RA30NASD SERIES

Code (Value)	Code (Value)	Code (Value)
500 (50)	102 (1K)	103 (10K)◆
101 (100)	202 (2K)◆	253 (25K)◆
501 (500)◆	502 (5K)◆	

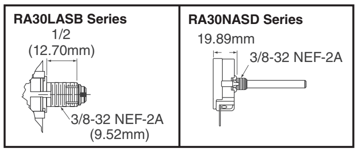

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	25	Honeywell Part No.
5K	RA30LASB502A-ND	46.28	36.82	34.49	RA30LASB502A
50 ~ 25K	RA30NASD(Code)A-ND	43.12	34.30	32.14	RA30NASD(Code)A

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.

15.08mm Trimmer Potentiometers Series 201

Electrical and Mechanical Specifications:
• Resistance Range: 100Ω through 1MΩ • Resistance Tolerance: ±20% • Power Rating, Watts: Below 5000Ω — 1/4 watt @ 40°C; 5000Ω and above — 1/4 watt @ 55°C • Voltage Rating: 350VDC • Resistance Tapers: Linear • Adjusting Knob Information: Blue nylon knob, 15.08mm diameter, slotted for front or rear screwdriver adjustment with rim to guide screwdriver. • Angle of Rotation: Total rotation — 260° ± 5°

Res. Ω	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
100	201UR101B-ND	201XR101B-ND◆	.50	.46	.42	.33	.27	201UR101B	201XR101B
250	201UR251B-ND◆	201XR251B-ND◆	.50	.46	.42	.33	.27	201UR251B	201XR251B
500	201UR501B-ND	201XR501B-ND◆	.50	.46	.42	.33	.27	201UR501B	201XR501B
1K	201UR102B-ND◆	201XR102B-ND◆	.50	.46	.42	.33	.27	201UR102B	201XR102B
2.5K	201UR252B-ND◆	201XR252B-ND◆	.50	.46	.42	.33	.27	201UR252B	201XR252B
5K	201UR502B-ND◆	201XR502B-ND◆	.50	.46	.42	.33	.27	201UR502B	201XR502B
10K	201UR103B-ND◆	201XR103B-ND◆	.50	.46	.42	.33	.27	201UR103B	201XR103B
25K	201UR253B-ND◆	201XR253B-ND◆	.50	.46	.42	.33	.27	201UR253B	201XR253B
50K	201UR503B-ND◆	201XR503B-ND◆	.50	.46	.42	.33	.27	201UR503B	201XR503B
100K	201UR104B-ND◆	201XR104B-ND◆	.50	.46	.42	.33	.27	201UR104B	201XR104B
250K	201UR254B-ND	201XR254B-ND◆	.50	.46	.42	.33	.27	201UR254B	201XR254B
500K	201UR504B-ND◆	201XR504B-ND◆	.50	.46	.42	.33	.27	201UR504B	201XR504B
1M	201UR105B-ND◆	201XR105B-ND◆	.50	.46	.42	.33	.27	201UR105B	201XR105B

◆ *RoHS Compliant*

U201

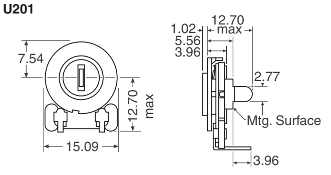

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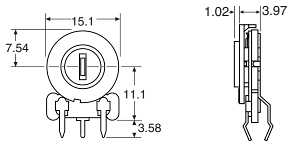

10mm Trimmer Potentiometers Series 262

Electrical and Mechanical Specifications:

• Resistance Range: Standard — 500Ω ~ 1MΩ • Resistance Tolerance: Standard – ±20% • Power Rating Watts: 0.15 watts @ 40°C • Voltage Rating: Operating maximum — 350VDC • Resistance Tapers: Linear • Adjustment Knob: Color coded nylon knob with hex hole for top adjustment plus slot for either top or bottom screwdriver adjustment • Angle of Rotation: Total rotation — 265° ±5% • Rotational Torque: .3 to 5 inch ounces • Stop Strength: 16 inch ounces

Res. Ω	Color	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
500	Green	U262R501B-ND◆	X262R501B-ND◆	.51	.48	.43	.34	.28	U262R501B	X262R501B
1K	Yellow	U262R102B-ND◆	X262R102B-ND	.51	.48	.43	.34	.28	U262R102B	X262R102B
2.5K	Red	U262R252B-ND◆	X262R252B-ND	.51	.48	.43	.34	.28	U262R252B	X262R252B
5K	Blue	U262R502B-ND◆	X262R502B-ND◆	.51	.48	.43	.34	.28	U262R502B	X262R502B
10K	White	U262R103B-ND◆	X262R103B-ND◆	.51	.48	.43	.34	.28	U262R103B	X262R103B
25K	Black	U262R253B-ND◆	X262R253B-ND◆	.51	.48	.43	.34	.28	U262R253B	X262R253B
50K	Orange	U262R503B-ND◆	X262R503B-ND◆	.51	.48	.43	.34	.28	U262R503B	X262R503B
100K	Gray	U262R104B-ND	X262R104B-ND◆	.51	.48	.43	.34	.28	U262R104B	X262R104B
250K	Violet	U262R254B-ND◆	X262R254B-ND◆	.51	.48	.43	.34	.28	U262R254B	X262R254B
500K	Brown	U262R504B-ND◆	X262R504B-ND	.51	.48	.43	.34	.28	U262R504B	X262R504B
1M	Lt. Blue	U262R105B-ND◆	X262R105B-ND	.51	.48	.43	.34	.28	U262R105B	X262R105B

◆ *RoHS Compliant*

U262

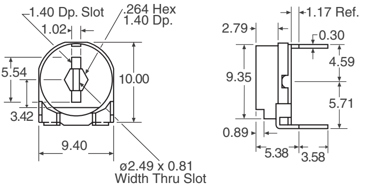

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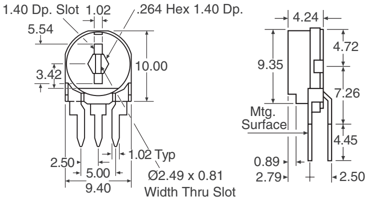

Two Axis, Ministick and Micro-stick (Joystick) Controller Series 252 and 254

Specifications:
Controller without Switch: • Resistance Tolerance: Standard: ±20% • Insulation Resistance: 100MΩ minimum @ 250VDC • Power Rating: 0.0125 watt • Maximum Operating Voltage: Maximum 50VAC or 5VDC • Angle of Rotation: 60° maximum Life: 1,000,000 cycles

Compact Size	
Series	Dimensions - mm
252	20 x 21 x 13
254	11 x 11 x 5

Controller with Momentary Switch: • Contact Resistance: 100mΩ maximum • Dielectric Strength: 250VAC 50/60 Hz for 1 minute • Insulation Resistance: 100MΩ minimum @ 100VDC • Operational Force: 252 and 254 Series: 800gf Power Rating: 254 Series: 5VDC 5mA maximum; 252 Series: 12VDC 50mA maximum • Travel: 0.5 +0.5 -0.4mm • Life: 252 Series: 500,000 cycles; 254 Series: 200,000 cycles

Note: For Additional Specifications, please see Manufacturer's Data Sheet.

Fig.	Res. Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	10K	Controller without Switch	252A103B60NA-ND	5.74	5.33	5.18	4.15	252A103B60NA
	10K	Controller with Switch	252A103B60NB-ND	6.09	5.66	5.53	4.43	252A103B60NB
	100K	Controller without Switch	252A104B60NA-ND	5.74	5.33	5.18	4.15	252A104B60NA
	100K	Controller with Switch	252A104B60NB-ND	6.09	5.66	5.53	4.43	252A104B60NB
2	10K	Controller without Switch	254SA103B50A-ND	12.28	11.41	11.06	8.95	254SA103B50A
	10K	Controller with Switch	254SA103B50B-ND	13.18	12.24	11.87	9.61	254SA103B50B
	100K	Controller without Switch	254SA104B50A-ND	12.68	11.78	11.41	9.24	254SA104B50A
	100K	Controller with Switch	254SA104B50B-ND	13.58	12.61	12.23	9.90	254SA104B50B
3	10K	Controller without Switch	254TA103B50A-ND	11.77	10.94	10.60	8.58	254TA103B50A
	10K	Controller with Switch	254TA103B50B-ND	12.68	11.78	11.41	9.24	254TA103B50B
	100K	Controller without Switch	254TA104B50A-ND	12.17	11.31	10.96	8.87	254TA104B50A
	100K	Controller with Switch	254TA104B50B-ND	13.08	12.15	11.77	9.53	254TA104B50B

Fig. 1 — 252 Series

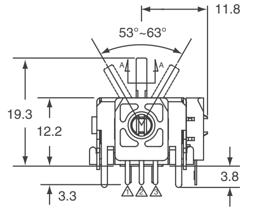

Fig. 2 — 254S Series

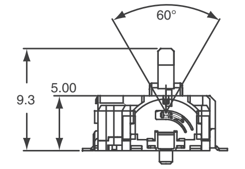

Fig. 3 — 254T Series

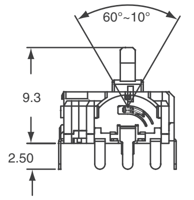

Stock Pot™ Potentiometers 23.81mm Diameter Series 450

Electrical and Mechanical Specifications:
• Resistance Range: 500Ω through 500KΩ • Resistance Tolerance: ±20% • Power Rating, Watt: Through 10KΩ, 1/2 watt; above 10KΩ through 100KΩ, 1/3 watt; above 100KΩ, 1/4 watt • Voltage Rating: Bushing to terminals: High pot test, one minute - 1080VAC • Shaft Information: Diameter: 6.35mm (Diameter over knurl 6.10mm ~ 6.25mm) • Angle of Rotation: Total rotation – 300° ±5°; Effective Rotation approximately 300° • Bushing Information: Material - Diecast zinc; Diameter – EIA st. 3/8" - 32 UNEF-2A thread; Length - 6.35mm ± .40mm • Terminal Information: Solder lug, formed to rear • Locating Lug: Left side, terminals down
Mounting hardware included.

Dimensions in mm

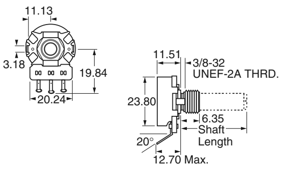

Fig. 1 — SD Slot

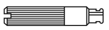

Fig. 2 — Flat

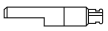

Fig. 3 — Round

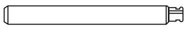

To determine shaft length, use appropriate variable (1-8) shown below.						
	Shaft Length (mm)					
	12.70	15.88	19.05	22.23	25.40	50.80
Figure 1 - Slot	1	2	3	4	5	—
Figure 2 - Flat	—	—	—	6	7	—
Figure 3 - Round	—	—	—	—	—	8

Res. Ω	Digi-Key Part No.*	Price Each 1	10	100	250	500	1,000
500	450D501-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
1K	450D102-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
2.5K	450D252-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
5K	450D502-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
10K	450D103-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
25K	450D253-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
50K	450D503-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
100K	450D104-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
250K	450D254-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
500K	450D504-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41

* For complete part number, substitute corresponding variable (from chart above) for ☐.

CTS Wirewound Potentiometers - 5 Watt Series 026

Specifications:
• Resistance Range: 5Ω ~ 25KΩ • Resistance Tolerance: ±20% • Power Rating Watts: 5 Watts @ 25°C Derated to No Load @ 105°C • Voltage Rating: Operating maximum 500VDC • Shaft Information: 1" FMS x .250" (25.40mm FMS x 6.35mm) Diameter, Metal, Plain Round • Angle of Rotation: 300° ±5° • Bushing Information: Diameter: EIA Std. 3/8"-32, UNEF-2A Thread Length: 3/8" ± 1/64" (9.52mm ± .40mm) • Terminal Information: Solder Lug, Formed to Rear • Locating Lug: Left Side, Terminals Down

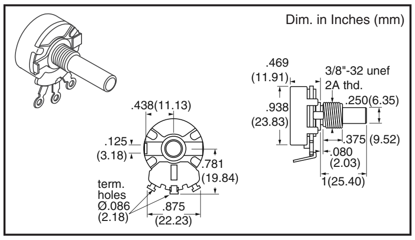

Res. Ω	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
5	CT2150-ND	3.61	3.36	2.79	2.52	026TB32R5AOB1A1
10	CT2151-ND◆	3.61	3.36	2.79	2.52	026TB32R100B1A1
25	CT2152-ND	3.61	3.36	2.79	2.52	026TB32R250B1A1
50	CT2153-ND◆	3.61	3.36	2.79	2.52	026TB32R500B1A1
100	CT2154-ND◆	3.61	3.36	2.79	2.52	026TB32R101B1A1
250	CT2155-ND◆	3.61	3.36	2.79	2.52	026TB32R251B1A1
500	CT2156-ND◆	3.61	3.36	2.79	2.52	026TB32R501B1A1
1K	CT2157-ND◆	3.61	3.36	2.79	2.52	026TB32R102B1A1
5K	CT2158-ND◆	3.61	3.36	2.79	2.52	026TB32R502B1A1
10K	CT2159-ND◆	3.61	3.36	2.79	2.52	026TB32R103B1A1
25K	CT2160-ND◆	3.61	3.36	2.79	2.52	026TB32R253B1A1

◆ *RoHS Compliant*

NEW! Conductive Plastic Precision Potentiometers — 16mm, 1/2 Watt Series 282

RoHS COMPLIANT

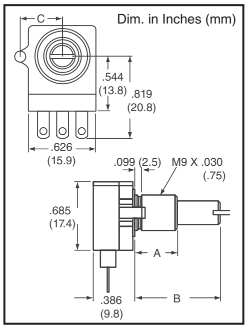

Features:
• Robust Construction • 2 Million Life Cycles • 2% Precision Linearity • Water Resistance (IP54, IP67) • Slotted or Flatted Shaft • Operating Temperature: -40°C ~ 150°C

Res. (Ω)	Shaft Diameter Inch (mm)	Shaft Type Inch (mm)	Dimensions — Inches (mm) Bushing (A)	Shaft (B)	Lug (C)	Rotation Angle (°)	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
					IP54							
5K	.25 (6.35)	Flatted .440 x .217 (11.18 x 5.51)	.375 (9.52)	.875 (22.23)	.315 (8.0)	250/240	CT3015-ND	10.51	9.78	8.12	7.34	282T33L502A25A2
5K	.25 (6.35)	Flatted .440 x .217 (11.18 x 5.51)	.375 (9.52)	.875 (22.23)	.315 (8.0)	360/340	CT3016-ND	10.51	9.78	8.12	7.34	282T33L502A25C2
10K	.236 (6.0)	SD Slot .039 x .063 (.99 x 1.60)	.394 (10.0)	.591 (15.0)	.394 (10.0)	300/280	CT3017-ND	10.41	9.68	8.04	7.26	282TCBS103A25B1
					IP67							
5K	.25 (6.35)	Flatted .440 x .217 (11.18 x 5.51)	.375 (9.52)	.875 (22.23)	.315 (8.0)	250/240	CT3012-ND	10.84	10.08	8.37	7.56	282T33L502A26A2
5K	.25 (6.35)	Flatted .440 x .217 (11.18 x 5.51)	.375 (9.52)	.875 (22.23)	.315 (8.0)	360/340	CT3013-ND	10.84	10.08	8.37	7.56	282T33L502A26C2
10K	.236 (6.0)	SD Slot .039 x .063 (.99 x 1.60)	.394 (10.0)	.591 (15.0)	.394 (10.0)	300/280	CT3014-ND	10.73	9.98	8.29	7.49	282TCBS103A26B1

Carbon Potentiometers — 1/4 Watt Series 270

Specifications:
• Resistance Range: 500Ω ~ 1MΩ • Resistance Tolerance: ±20% • Power Rating Watts: 1/4 Watt ~ 100K, 1/5 Watt above 100K • Voltage Rating: Operating Maximum: 500VDC • Mechanical Rotation: 300° ±5° • Available Power Switch: Type: Rotary Rating: 3A @ 125VAC (UL Approved) • Effective Rotation: Without Switch 300° (Approx.), with Switch 290° (Approx.) • Resistance Taper: Linear, Logarithmic • Locating Lug: Left Side, Terminals Down • Bushing Information: Length: 1/4" (6.35mm), Thread Size: 1/4"-32, diameter: 1/4" (6.35mm) • Shaft Information: Length: 1" (25.40mm) including bushing, Diameter: .125" (3.18mm)

Digi-Key Part No.	Price Each 1	10	50	100	250
CT2223-ND - CT2233-ND	3.48	3.24	2.69	2.43	2.16
CT2201-ND - CT2211-ND	2.71	2.52	2.10	1.89	1.68
CT2212-ND - CT2222-ND	3.53	3.28	2.73	2.46	2.19
CT2234-ND - CT2244-ND	2.77	2.58	2.15	1.94	1.72

Dimensions in Inches (mm)

Fig. 1

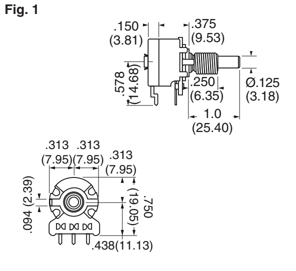

Fig. 2

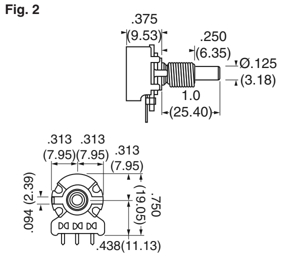

Linear Taper with Switch Fig. 1 Res. Ω	Digi-Key Part No.	CTS Part No.	Linear Taper without Switch Fig. 2 Res. Ω	Digi-Key Part No.	CTS Part No.	Logarithmic Taper with Switch Fig. 1 Res. Ω	Digi-Key Part No.	CTS Part No.	Logarithmic Taper without Switch Fig. 2 Res. Ω	Digi-Key Part No.	CTS Part No.
500	CT2223-ND◆	270X232A501B1B1	500	CT2201-ND◆	270X232A501B1A1	500	CT2212-ND◆	270X232A501B2B1	500	CT2234-ND	270X232A501B2A1
1K	CT2224-ND◆	270X232A102B1B1	1K	CT2202-ND◆	270X232A102B1A1	1K	CT2213-ND◆	270X232A102B2B1	1K	CT2235-ND	270X232A102B2A1
2.5K	CT2225-ND◆	270X232A252B1B1	2.5K	CT2203-ND◆	270X232A252B1A1	2.5K	CT2214-ND	270X232A252B2B1	2.5K	CT2236-ND	270X232A252B2A1
5K	CT2226-ND◆	270X232A502B1B1	5K	CT2204-ND◆	270X232A502B1A1	5K	CT2215-ND	270X232A502B2B1	5K	CT2237-ND◆	270X232A502B2A1
10K	CT2227-ND◆	270X232A103B1B1	10K	CT2205-ND◆	270X232A103B1A1	10K	CT2216-ND◆	270X232A103B2B1	10K	CT2238-ND◆	270X232A103B2A1
25K	CT2228-ND◆	270X232A253B1B1	25K	CT2206-ND◆	270X232A253B1A1	25K	CT2217-ND	270X232A253B2B1	25K	CT2239-ND◆	270X232A253B2A1
50K	CT2229-ND◆	270X232A503B1B1	50K	CT2207-ND◆	270X232A503B1A1	50K	CT2218-ND◆	270X232A503B2B1	50K	CT2240-ND	270X232A503B2A1
100K	CT2230-ND◆	270X232A104B1B1	100K	CT2208-ND	270X232A104B1A1	100K	CT2219-ND◆	270X232A104B2B1	100K	CT2241-ND◆	270X232A104B2A1
250K	CT2231-ND	270X232A254B1B1	250K	CT2209-ND◆	270X232A254B1A1	250K	CT2220-ND	270X232A254B2B1	250K	CT2242-ND	270X232A254B2A1
500K	CT2232-ND	270X232A504B1B1	500K	CT2210-ND	270X232A504B1A1	500K	CT2221-ND◆	270X232A504B2B1	500K	CT2243-ND◆	270X232A504B2A1
1MEG	CT2233-ND◆	270X232A105B1B1	1 MEG	CT2211-ND◆	270X232A105B1A1	1 MEG	CT2222-ND	270X232A105B2B1	1 MEG	CT2244-ND◆	270X232A105B2A1

◆ *RoHS Compliant*

Carbon Potentiometers — 1/8 Watt Series 296

Specifications: • Resistance Range: 500Ω ~ 1MΩ • Resistance tolerance: ±20% • Power Rating Watts: 0.15 Watts @ 40°C derated to no load @ 85°C • Voltage Rating: Across End Terminals: 250VDC • Rotational Torque: 20-144gcm • Angle of Rotation: Total rotation: 300° ±5°, Effective Rotation: 280° (Approximately) • Stops: 0.57 N-m Minimum Stop Strength • Shaft Information: Length: 13.72mm Beyond Cover, Style: Knurled, Diameter: 6mm • Mounting Information: P.C. Board Mounting

Dimensions in Inches (mm)

Fig. 1 — Vertical Adjust

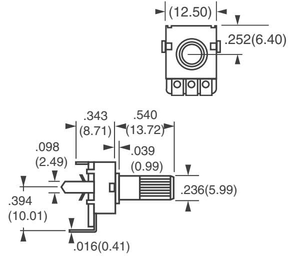

Fig. 2 — Horizontal Adjust

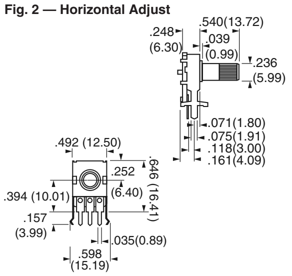

Fig.	Res. Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	500	Vertical	CT2261-ND	1.55	1.29	1.08	.86	296UD501B1N
	1K	Vertical	CT2262-ND◆	1.55	1.29	1.08	.86	296UD102B1N
	2.5K	Vertical	CT2263-ND◆	1.55	1.29	1.08	.86	296UD252B1N
	5K	Vertical	CT2264-ND◆	1.55	1.29	1.08	.86	296UD502B1N
	10K	Vertical	CT2265-ND	1.55	1.29	1.08	.86	296UD103B1N
	25K	Vertical	CT2266-ND◆	1.55	1.29	1.08	.86	296UD253B1N
	50K	Vertical	CT2267-ND	1.55	1.29	1.08	.86	296UD503B1N
	100K	Vertical	CT2268-ND◆	1.55	1.29	1.08	.86	296UD104B1N
	250K	Vertical	CT2269-ND◆	1.55	1.29	1.08	.86	296UD254B1N
	500K	Vertical	CT2270-ND◆	1.55	1.29	1.08	.86	296UD504B1N
	1MEG	Vertical	CT2271-ND	1.55	1.29	1.08	.86	296UD105B1N
2	500	Horizontal	CT2250-ND	1.55	1.29	1.08	.86	296XD501B1N
	1K	Horizontal	CT2251-ND	1.55	1.29	1.08	.86	296XD102B1N
	2.5K	Horizontal	CT2252-ND	1.55	1.29	1.08	.86	296XD252B1N
	5K	Horizontal	CT2253-ND◆	1.55	1.29	1.08	.86	296XD502B1N
	10K	Horizontal	CT2254-ND◆	1.55	1.29	1.08	.86	296XD103B1N
	25K	Horizontal	CT2255-ND◆	1.55	1.29	1.08	.86	296XD253B1N
	50K	Horizontal	CT2256-ND◆	1.55	1.29	1.08	.86	296XD503B1N
	100K	Horizontal	CT2257-ND◆	1.55	1.29	1.08	.86	296XD104B1N
	250K	Horizontal	CT2258-ND◆	1.55	1.29	1.08	.86	296XD254B1N
	500K	Horizontal	CT2259-ND	1.55	1.29	1.08	.86	296XD504B1N
	1MEG	Horizontal	CT2260-ND	1.55	1.29	1.08	.86	296XD105B1N

◆ *RoHS Compliant*

Precision
Electronic
Components Ltd.

MIL Style RV6 – 1/2 Watt Carbon Potentiometers

RV6L Series

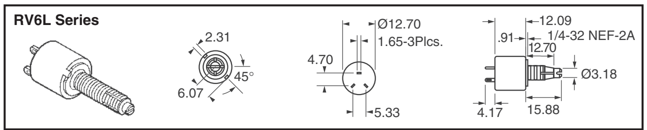

RV6N Series

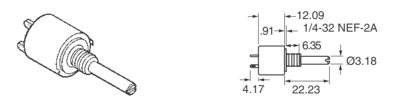

Specifications: • **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC maximum, but power not to exceed rating • **Operating Temperature:** -65°C ~ 125°C • **Mechanical Rotation:** 295° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft • Hardware included

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100)	102 (1K)	103 (10K)	104 (100K)	105 (1Meg)
251 (250)	252 (2.5K)	253 (25K)	254 (250K)	505 (5Meg)
501 (500)	502 (5K)	503 (50K)	504 (500K)	

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	RV6L☐☐☐C-ND	9.46	8.56	7.28	6.05	5.28	RV6LAYSA(Code)A
100-1Meg	RV6N☐☐☐C-ND	8.58	7.76	6.60	5.48	4.79	RV6NAYSD(Code)A

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Wirewound Precision Ten-Turn
2 Watt Potentiometers

RoHS COMPLIANT

GU Series

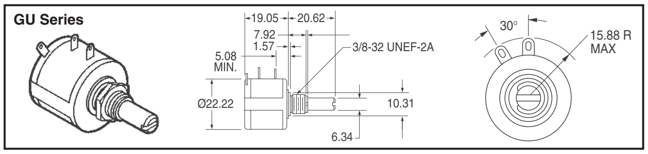

Specifications: • **Resistance Tolerance**: ±5% • **Electrical/ Mechanical Rotation:** 3600° + 10° -0° • **Effective Rotation:** 3600° nominal • **Dielectric Strength:** 1000 VAC for 60 seconds at ATM • **Working Voltage:** 500 volts maximum • **Power rating:** 2 watt at 70° C • **Shaft Length and Size:** 13/16" (20.64mm) FMS screwdriver slotted, stainless steel • **Bushing Style:** 5/16" (7.95mm) • **Temperature Coefficient:** ± 20 PPM/°C • Hardware included

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)
101 (100)	202 (2K)	253 (25K)
201 (200)	502 (5K)	503 (50K)
501 (500)	103 (10K)	104 (100K)
102 (1K)	203 (20K)	

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-100K	GU☐☐☐1S26-ND	15.52	14.03	11.94	9.92	8.66	GU(Code)1S26

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Type SPR Washable
1/2 Watt Carbon Potentiometers

SPRU Series

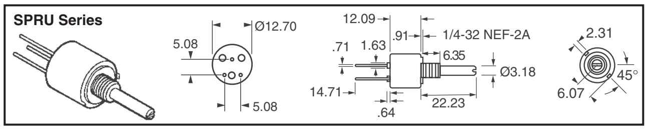

Specifications: • **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg ~ 5Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC maximum, but power not to exceed rating • **Operating Temperature:** -65°C ~ 125°C • **Mechanical Rotation:** 295° • Hardware included
Meets or exceeds MIL R 94 Specifications. Metal housing, stainless steel shaft.

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100)	252 (2.5K)	503 (50K)	105 (1Meg)
251 (250)	502 (5K)	104 (100K)	255 (2.5Meg)
501 (500)	103 (10K)	254 (250K)	505 (5Meg)
102 (1K)	253 (25K)	504 (500K)	

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	SPRU☐☐☐C-ND	8.66	7.83	6.66	5.53	4.83	SPRU(Code)1S28

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

MIL Style – 2 Watt Carbon Potentiometers

RV4L, RV4N, RV4NJ-(Linear Taper Single Element)
KA (Logarithmic Taper Single Element)
KB (Reverse Logarithmic Taper Single Element)
KU (High Life* Linear Taper Single Element)
**Rotational Life: 100,000 cycles*
KKA (Logarithmic Taper Dual Element)
KKB (Reverse Logarithmic Taper Dual Element)
KKU (Linear Taper Dual Element)

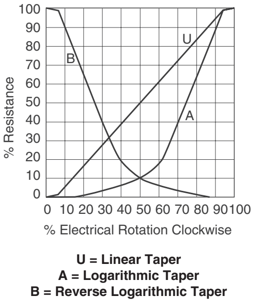

Specifications:
- **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg
- **Power Rating:** 2 Watts @ 70°C, Derate to 0 Watt @ 120°C
- **Dielectric Strength:** 900V RMS
- **Working Voltage:** 500 volts, but power not to exceed rating
- **Operating Temperature:** -65°C ~ 125°C
- **Mechanical Rotation:** 314° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft. • Hardware included

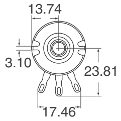

RV4L Series

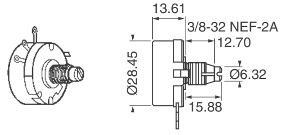

RV4N Series, KA/KB/KU Series

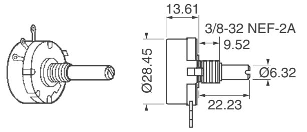

RV4NJ Series

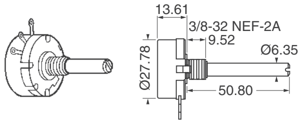

KKA/KKB/KKU Series

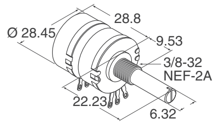

RV4L SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50)	102 (1K)	153 (15K)	104 (100K)
101 (100)	252 (2.5K)	253 (25K)	254 (250K)
251(250)	502 (5K)	353 (35K)	504 (500K)
501 (500)	103 (10K)	503 (50K)	105 (1Meg)

KA SERIES (LOG TAPER)

Code (Value)	Code (Value)
502 (5K)	104 (100K)
103 (10K)	254 (250K)
253 (25K)	504 (500K)
503 (50K)	105 (1Meg)

RV4N SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50)	501 (500)	502 (5K)	253 (25K)	254 (250K)
101 (100)	102 (1K)	752 (7.5K)	353 (35K)	504 (500K)
151 (150)	152 (1.5K)	103 (10K)	503 (50K)	105 (1Meg)
251 (250)	252 (2.5K)	153 (15K)	104 (100K)	

RV4NJ SERIES (LINEAR)

Code (Value)	Code (Value)
500 (50)	502 (5K)
101 (100)	103 (10K)
251 (250)	253 (25K)
501 (500)	104 (100K)
102 (1K)	504 (500K)
252 (2.5K)	105 (1Meg)

KB SERIES (REV LOG)

Code (Value)	Code (Value)
102 (1K)	104 (100K)
502 (5K)	254 (250K)
103 (10K)	504 (500K)
253 (25K)	105 (1Meg)
503 (50K)	

KKA SERIES (DUAL LOG)

Code (Value)	Code (Value)
102 (1K)	104 (100K)
502 (5K)	254 (250K)
103 (10K)	504 (500K)
253 (25K)	105 (1Meg)
503 (50K)	

KKB SERIES (DUAL REV LOG)

Code (Value)	Code (Value)
102 (1K)	104 (100K)
502 (5K)	254 (250K)
103 (10K)	504 (500K)
253 (25K)	105 (1Meg)
503 (50K)	

KKU SERIES (DUAL LINEAR)

Code (Value)
102 (1K)
502 (5K)
103 (10K)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
50-1Meg	RV4L☐☐☐C-ND	8.37	7.57	6.44	5.35	4.67	RV4LAYSA(Code)A
50-1Meg	RV4N☐☐☐C-ND◆	8.01	7.24	6.16	5.12	4.47	RV4NAYSD(Code)A
50-1Meg	RV4NJ☐☐☐C-ND◆	8.01	7.24	6.16	5.12	4.47	RV4NAYSJ(Code)A
5K-1Meg	KA☐☐☐1S28-ND◆	11.44	10.34	8.80	7.31	6.38	KA(Code)1S28
5K	KU5021S28-HL-ND◆	11.54	10.44	8.88	7.38	6.44	KU5021S28-HL
1K-1Meg	KB☐☐☐1S28-ND	11.44	10.34	8.80	7.31	6.38	KB(Code)1S28
1K-1Meg	KKA☐☐☐1S28-ND	32.42	29.31	24.94	20.71	18.09	KKA(Code)1S28
1K-1Meg	KKB☐☐☐1S28-ND	32.42	29.31	24.94	20.71	18.09	KKB(Code)1S28
1K-10K	KKU☐☐☐1S28-ND	26.18	23.67	20.14	16.72	14.61	KKU(Code)1S28

◆ ***RoHS Compliant***
† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Model 15 Turns Counting Dial

RoHS COMPLIANT

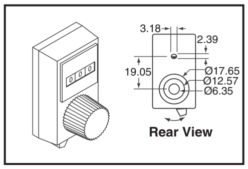

Rear View

E15-1-11-ND: The left digit indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 999.
E15-2-11-ND: The left two digits indicate the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 9999.

Description	Digi-Key Part No.	Price Each	Precision Part No.
Digital Dial (3 Digit/10 turn)	E15-1-11-ND	52.26	E15-1-11
Digital Dial (4 Digit/100 turn)	E15-2-11-ND	60.01	E15-2-11

K and P Series Knobs

K Series: Machined Aluminum Alloy Stock **Finish:** Gloss Anodize **Set Screws:** Steel, Type 303, Hex Head, Cup Point
P Series: General Purpose Phenolic (thermoset) (Maximum Temperature 120°C ~ 125°C, continuous) **Finish:** Gloss **Insert:** Copper Alloy **Set Screws:** Steel, Hex Head, Cup Point **Inlays:** Skirts, Aluminum Alloy, Spun Finish

Fig. 1 — KB Series – Straight Knurl and Top Line Indicator

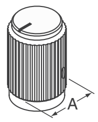

Fig. 2 — KD Series – Diamond Knurl with Indicator Line

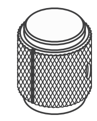

Fig. 3 — KLN Series – Straight Knurl with Top and Side Indicator

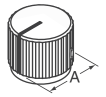

Fig. 4 — KN Series – Straight Knurl with "Fingertip" Spinner/Less Indicator

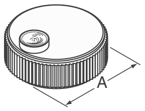

Fig. 5 — KN Series – Concentric Set with Straight Knurl with Indicator Line

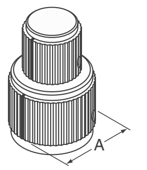

Fig. 6 — KN Series – Straight Knurl with Indicator Line

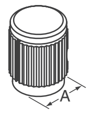

Fig. 7 — KNS Series – Straight Knurl with Arrowhead Indicator on Skirt (Two-Toned)

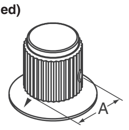

Fig. 8 — KPN Series – Straight Knurl with Pointer and Indicator Line

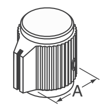

Fig. 9 — PK Series – Straight Knurl with Dot Indicator on Skirt

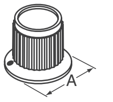

Fig. 10 — PKA Series – Ribbed with Line Indicator on Skirt

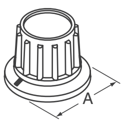

Fig. 11 — PKAP Series – Ribbed with Skirt and Pointer with Indicator Line

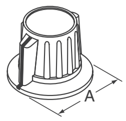

Fig. 12 — PKB Series – Fluted with Indicator Line on Skirt

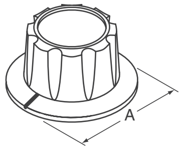

Fig. 13 — PKD Series – Straight Knurl Aluminum Skirt with Arrow Indicator

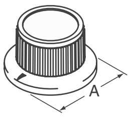

Fig. 14 — PKE Series – Fluted with Indicator Line

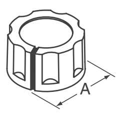

Fig. 15 — PKES Series – Fluted with Skirt and Indicator Line

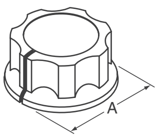

Fig. 16 — PKG Series – Ribbed with Indicator Line

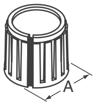

Fig. 17 — PKG/PKGP Series – Ribbed with Indicator Line

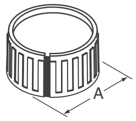

Fig. 18 — PKS Series – Straight Knurl Aluminum Skirt with Line Indicator

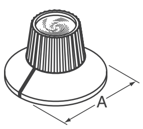

Fig. 19 — PKS Series – Straight Knurl with Aluminum Skirt or Arrow Indicator

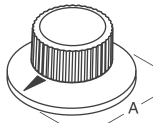

Fig.	Shaft Diameter Inch (mm)	Dim. A Inch (mm)	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
				1	10	50	100	
			K Series — Machined Aluminum					
1	0.251 (6.37)	0.50 (12.7)	450-1689-ND†	17.50	15.97	13.82	12.90	KB500A1/4
	0.126 (3.20)	0.50 (12.7)	450-1690-ND†	11.37	10.38	8.98	8.38	KB500A1/8
	0.251 (6.37)	0.50 (12.7)	450-1691-ND‡	10.89	9.94	8.60	8.03	KB500B1/4
	0.126 (3.20)	0.50 (12.7)	450-1692-ND‡	8.89	8.12	7.02	6.56	KB500B1/8
2	0.251 (6.37)	0.50 (12.7)	450-1693-ND‡	7.07	6.45	5.58	5.21	KD500B1/4
	0.126 (3.20)	0.50 (12.7)	450-1694-ND‡	7.41	6.76	5.85	5.46	KD500B1/8
3	0.251 (6.37)	1.252 (31.8)	450-1695-ND†	12.14	11.08	9.59	8.95	KLN1250A1/4
	0.251 (6.37)	1.252 (31.8)	450-1696-ND‡	15.05	13.73	11.88	11.09	KLN1250B1/4
	0.126 (3.20)	0.50 (12.7)	450-1697-ND†	7.58	6.92	5.99	5.59	KLN500A1/8
	0.251 (6.37)	0.50 (12.7)	450-1698-ND‡	8.09	7.39	6.39	5.97	KLN500B1/4
	0.126 (3.20)	0.50 (12.7)	450-1699-ND‡	7.13	6.50	5.63	5.25	KLN500B1/8
	0.251 (6.37)	0.74 (18.8)	450-1700-ND†	8.21	7.49	6.48	6.05	KLN700A1/4
	0.251 (6.37)	0.74 (18.8)	450-1701-ND‡	8.15	7.44	6.44	6.01	KLN700B1/4
	0.251 (6.37)	0.937 (23.8)	450-1702-ND‡	8.89	8.12	7.02	6.56	KLN900B1/4
4	0.251 (6.37)	1.75 (44.5)	450-1703-ND†	30.44	27.77	24.03	22.43	KN1751AS1/4
	0.251 (6.37)	1.75 (44.5)	450-1704-ND‡	28.56	26.06	22.55	21.05	KN1751BS1/4
5	0.251 (6.37)	0.75 (19.1)	450-1708-ND‡	15.85	14.46	12.51	11.68	KN5700B1/4
6	0.126 (3.20)	0.50 (12.7)	450-1705-ND†	8.49	7.75	6.71	6.26	KN500A1/8
	0.251 (6.37)	0.50 (12.7)	450-1706-ND‡	7.92	7.23	6.26	5.84	KN500B1/4
	0.126 (3.20)	0.50 (12.7)	450-1707-ND‡	7.13	6.50	5.63	5.25	KN500B1/8
	0.251 (6.37)	0.75 (19.1)	450-1709-ND†	7.70	7.02	6.08	5.67	KN700A1/4
	0.251 (6.37)	0.75 (19.1)	450-1710-ND‡	9.98	9.10	7.88	7.35	KN700B1/4
	0.251 (6.37)	0.949 (24.1)	450-1711-ND†	9.35	8.53	7.38	6.89	KN900A1/4
	0.251 (6.37)	0.949 (24.1)	450-1712-ND‡	11.40	10.40	9.00	8.40	KN900B1/4
7	0.251 (6.37)	0.50 (12.7)	450-1713-ND§	12.71	11.60	10.04	9.37	KNS501BA1/4
	0.126 (3.20)	0.50 (12.7)	450-1714-ND§	12.71	11.60	10.04	9.37	KNS501BA1/8
8	0.251 (6.37)	0.50 (12.7)	450-1715-ND‡	16.19	14.77	12.78	11.93	KPN500B1/4
	0.126 (3.20)	0.50 (12.7)	450-1716-ND‡	17.10	15.60	13.50	12.60	KPN500B1/8
	0.251 (6.37)	0.937 (23.8)	450-1717-ND†	21.57	19.69	17.04	15.90	KPN900A1/4
	0.251 (6.37)	0.937 (23.8)	450-1718-ND‡	21.57	19.69	17.04	15.90	KPN900B1/4

Fig.	Shaft Diameter Inch (mm)	Dim. A Inch (mm)	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
				1	10	50	100	
			P Series — Molded Phenolic					
9	0.251 (6.37)	0.748 (19.0)	450-1719-ND‡	2.25	2.00	1.74	1.56	PK50B1/4
	0.126 (3.20)	0.748 (19.0)	450-1720-ND‡	2.57	2.29	2.00	1.79	PK50B1/8
	0.251 (6.37)	0.984 (25.0)	450-1721-ND‡	3.41	3.03	2.64	2.37	PK70B1/4
	0.251 (6.37)	1.25 (31.8)	450-1722-ND‡	4.28	3.80	3.32	2.97	PK90B1/4
10	0.251 (6.37)	0.795 (20.2)	450-1723-ND‡	2.51	2.24	1.95	1.75	PKA50B1/4
	0.126 (3.20)	0.795 (20.2)	450-1724-ND‡	2.20	1.96	1.71	1.53	PKA50B1/8
	0.251 (6.37)	0.980 (24.9)	450-1725-ND‡	3.13	2.78	2.43	2.18	PKA70B1/4
	0.251 (6.37)	1.375 (34.9)	450-1726-ND‡	4.77	4.24	3.70	3.32	PKA90B1/4
11	0.251 (6.37)	0.787 (20.0)	450-1727-ND‡	4.99	4.43	3.87	3.47	PKAP50B1/4
	0.251 (6.37)	0.976 (24.8)	450-1728-ND‡	6.88	6.11	5.33	4.78	PKAP70B1/4
12	0.251 (6.37)	1.12 (28.3)	450-1729-ND‡	3.81	3.39	2.96	2.65	PKB70B1/4
	0.251 (6.37)	1.50 (38.1)	450-1730-ND‡	4.87	4.32	3.77	3.38	PKB90B1/4
13	0.251 (6.37)	1.02 (25.9)	450-1731-ND‡	3.50	3.11	2.72	2.43	PKD70B1/4
	0.251 (6.37)	1.02 (25.9)	450-1732-ND‡▲	3.57	3.17	2.76	2.48	PKD70B101/4
14	0.251 (6.37)	0.626 (15.9)	450-1733-ND‡	3.10	2.75	2.40	2.15	PKE60B1/4
	0.251 (6.37)	0.890 (22.6)	450-1734-ND‡	3.41	3.03	2.64	2.37	PKE90B1/4
15	0.251 (6.37)	1.30 (32.9)	450-1735-ND‡	3.29	2.92	2.55	2.28	PKES120B1/4
	0.251 (6.37)	0.748 (19.0)	450-1736-ND‡	2.83	2.51	2.19	1.97	PKES60B1/4
	0.126 (3.20)	0.748 (19.0)	450-1737-ND‡	2.88	2.56	2.24	2.00	PKES60B1/8
	0.251 (6.37)	0.855 (21.7)	450-1738-ND‡	2.91	2.59	2.26	2.03	PKES70B1/4
	0.251 (6.37)	1.01 (25.7)	450-1739-ND‡	3.47	3.08	2.69	2.41	PKES90B1/4
16	0.126 (3.20)	0.437 (11.1)	450-1741-ND‡∆	2.23	1.98	1.73	1.55	PKG40B1/8
	0.251 (6.37)	0.551 (14.0)	450-1742-ND‡	2.57	2.29	2.00	1.79	PKG50B1/4
	0.126 (3.20)	0.551 (14.0)	450-1743-ND‡	2.50	2.22	1.94	1.74	PKG50B1/8
17	0.251 (6.37)	0.740 (18.8)	450-1744-ND‡	4.96	4.40	3.84	3.44	PKG70B1/4
	0.251 (6.37)	0.862 (21.9)	450-1745-ND‡	4.68	4.16	3.63	3.25	PKG90B1/4
	0.251 (6.37)	1.055 (26.8)	450-1740-ND‡	4.90	4.35	3.80	3.40	PKG100B1/4
	0.251 (6.37)	0.740 (18.8)	450-1746-ND‡◊	5.58	4.95	4.32	3.87	PKGP70B1/4
18	0.251 (6.37)	1.17 (29.6)	450-1747-ND‡▼	5.80	5.15	4.49	4.03	PKS1103B101/4
	0.251 (6.37)	1.17 (29.6)	450-1748-ND‡▼	5.30	4.71	4.11	3.68	PKS1105B101/4
	0.251 (6.37)	1.17 (29.6)	450-1749-ND‡	6.26	5.56	4.85	4.35	PKS1106B1/4
	0.251 (6.37)	1.18 (30.0)	450-1750-ND‡▲	7.25	6.44	5.62	5.04	PKS1132B101/4
19	0.251 (6.37)	1.42 (36.1)	450-1751-ND‡	4.99	4.43	3.87	3.47	PKS90B1/4
	0.251 (6.37)	1.42 (36.1)	450-1752-ND‡▲	7.50	6.66	5.81	5.21	PKS90B101/4

† Color: Natural ‡ Color: Black § Color: Black-Natural ▲ With 0-10 Numerals ◊ With Bar Pointer
∆ Uses #4-40 set screw ▼ With 0-9 Numerals

KILO
INTERNATIONAL

Machined Aluminum Instrumentation Knobs

Features:
- Precision aluminum machined surfaces from bar stock.
- Anodized finish gloss or matte.
- Colors are clear or black.
- Set screws accept a 1/16" hex allen wrench
- All knobs will accept round shafts with sizes indicated below.
- ML Model: One 6-32 set screw located 90° from the indicator line.
- DD, JD, DDS and SC Models: Two 6-32 set screws set 120° apart.
- HD Model: Two 6-32 set screws set 90° apart.
- OEJ, OED and OES Models: Single 6-32 set screw located 180° from indicator line.

Made in the USA

Fig. 1 – ML Model
"Soft Touch"

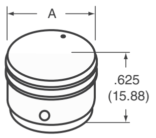

Fig. 2 – DD Model

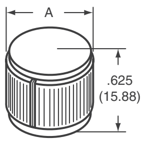

Fig. 3 – JD Model

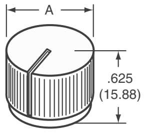

Fig. 4 – HD Model

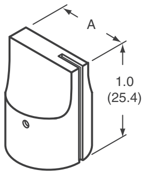

Fig. 5 – DDS Model

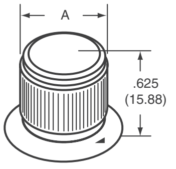

Fig. 6 – SC Model

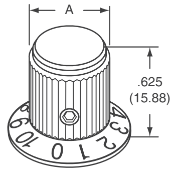

Fig. 7 – OEJ Model

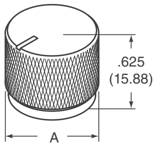

Fig. 8 – OEJ-ARROW Model

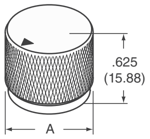

Fig. 9 – OED Model

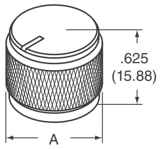

Fig. 10 – OED-ARROW Model

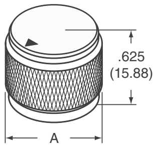

Fig. 11 – OES Model

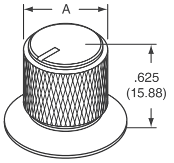

Fig. 12 – OES-ARROW Model

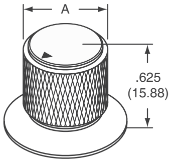

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key† Part No.	Price Each 1	10	50	100
1	.125 (3.18)	.50 (12.70)	226-☐000-ND	5.69	5.06	4.18	3.80
	.125 (3.18)	.625 (15.875)	226-☐069-ND	6.35	5.64	4.66	4.23
	.125 (3.18)	.75 (19.05)	226-☐026-ND	6.95	6.18	5.10	4.64
	.125 (3.18)	.925 (23.50)	226-☐027-ND	7.63	6.78	5.60	5.09
	.236 (6.00)	.50 (12.70)	226-☐003-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.625 (15.875)	226-☐071-ND	6.35	5.64	4.66	4.23
	.236 (6.00)	.75 (19.05)	226-☐004-ND	6.95	6.18	5.10	4.64
	.236 (6.00)	.925 (23.50)	226-☐028-ND	7.63	6.78	5.60	5.09
	.250 (6.35)	.50 (12.70)	226-☐025-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.625 (15.875)	226-☐070-ND	6.35	5.64	4.66	4.23
	.250 (6.35)	.75 (19.05)	226-☐001-ND	6.95	6.18	5.10	4.64
	.250 (6.35)	.925 (23.50)	226-☐002-ND	7.63	6.78	5.60	5.09
2	.125 (3.18)	.50 (12.70)	226-☐005-ND	5.24	4.66	3.85	3.50
	.125 (3.18)	.625 (15.875)	226-☐057-ND	5.36	4.76	3.93	3.57
	.125 (3.18)	.75 (19.05)	226-☐042-ND	5.42	4.82	3.98	3.62
	.125 (3.18)	.925 (23.50)	226-☐043-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.50 (12.70)	226-☐008-ND	5.24	4.66	3.85	3.50
	.236 (6.00)	.625 (15.875)	226-☐059-ND	5.36	4.76	3.93	3.57
	.236 (6.00)	.75 (19.05)	226-☐009-ND	5.42	4.82	3.98	3.62
	.236 (6.00)	.925 (23.50)	226-☐044-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.50 (12.70)	226-☐041-ND	5.24	4.66	3.85	3.50
	.250 (6.35)	.625 (15.875)	226-☐058-ND	5.36	4.76	3.93	3.57
	.250 (6.35)	.75 (19.05)	226-☐006-ND	5.42	4.82	3.98	3.62
	.250 (6.35)	.925 (23.50)	226-☐007-ND	5.69	5.06	4.18	3.80
3	.125 (3.18)	.50 (12.70)	226-☐010-ND	5.24	4.66	3.85	3.50
	.125 (3.18)	.625 (15.875)	226-☐060-ND	5.36	4.76	3.93	3.57
	.125 (3.18)	.75 (19.05)	226-☐034-ND	5.42	4.82	3.98	3.62
	.125 (3.18)	.925 (23.50)	226-☐035-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.50 (12.70)	226-☐013-ND	5.24	4.66	3.85	3.50
	.236 (6.00)	.625 (15.875)	226-☐062-ND	5.36	4.76	3.93	3.57
	.236 (6.00)	.75 (19.05)	226-☐014-ND	5.42	4.82	3.98	3.62
	.236 (6.00)	.925 (23.50)	226-☐036-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.50 (12.70)	226-☐033-ND	5.24	4.66	3.85	3.50
	.250 (6.35)	.625 (15.875)	226-☐061-ND	5.36	4.76	3.93	3.57
	.250 (6.35)	.75 (19.05)	226-☐011-ND	5.42	4.82	3.98	3.62
	.250 (6.35)	.925 (23.50)	226-☐012-ND	5.69	5.06	4.18	3.80
4	.125 (3.18)	.50 (12.70)	226-☐015-ND	5.96	5.30	4.38	3.98
	.125 (3.18)	.625 (15.875)	226-☐066-ND	6.64	5.90	4.87	4.43
	.125 (3.18)	.75 (19.05)	226-☐030-ND	7.20	6.40	5.28	4.80
	.125 (3.18)	.925 (23.50)	226-☐031-ND	8.10	7.20	5.94	5.40
	.236 (6.00)	.50 (12.70)	226-☐018-ND	5.96	5.30	4.38	3.98
	.236 (6.00)	.75 (19.05)	226-☐019-ND	7.20	6.40	5.28	4.80
	.236 (6.00)	.925 (23.50)	226-☐032-ND	8.10	7.20	5.94	5.40
	.250 (6.35)	.50 (12.70)	226-☐029-ND	5.96	5.30	4.38	3.98
	.250 (6.35)	.625 (15.875)	226-4067-ND	6.64	5.90	4.87	4.43
	.250 (6.35)	.75 (19.05)	226-☐016-ND	7.20	6.40	5.28	4.80
	.250 (6.35)	.925 (23.50)	226-☐017-ND	8.10	7.20	5.94	5.40
5	.125 (3.18)	.50 (12.70)	226-☐020-ND	5.76	5.12	4.23	3.84
	.125 (3.18)	.625 (15.875)	226-☐063-ND	6.41	5.70	4.71	4.28
	.125 (3.18)	.75 (19.05)	226-☐038-ND	6.89	6.12	5.05	4.59
	.125 (3.18)	.925 (23.50)	226-☐039-ND	7.45	6.62	5.47	4.97
	.236 (6.00)	.50 (12.70)	226-☐023-ND	5.76	5.12	4.23	3.84
	.236 (6.00)	.625 (15.875)	226-☐065-ND	6.41	5.70	4.71	4.28
	.236 (6.00)	.75 (19.05)	226-☐024-ND	6.89	6.12	5.05	4.59
	.236 (6.00)	.925 (23.50)	226-☐040-ND	7.45	6.62	5.47	4.97
	.250 (6.35)	.50 (12.70)	226-☐037-ND	5.76	5.12	4.23	3.84
	.250 (6.35)	.625 (15.875)	226-☐064-ND	6.41	5.70	4.71	4.28
	.250 (6.35)	.75 (19.05)	226-☐021-ND	6.89	6.12	5.05	4.59
	.250 (6.35)	.925 (23.50)	226-☐022-ND	7.45	6.62	5.47	4.97
6	.125 (3.18)	.50 (12.70)	226-☐072-ND	5.76	5.12	4.23	3.84
	.125 (3.18)	.625 (15.875)	226-☐073-ND	6.41	5.70	4.71	4.28
	.125 (3.18)	.75 (19.05)	226-☐074-ND	6.89	6.12	5.05	4.59
	.125 (3.18)	.925 (23.50)	226-☐075-ND	7.45	6.62	5.47	4.97
	.236 (6.00)	.50 (12.70)	226-☐080-ND	5.76	5.12	4.23	3.84
	.236 (6.00)	.625 (15.875)	226-☐081-ND	6.41	5.70	4.71	4.28
	.236 (6.00)	.75 (19.05)	226-☐082-ND	6.89	6.12	5.05	4.59
	.236 (6.00)	.925 (23.50)	226-☐083-ND	7.45	6.62	5.47	4.97
	.250 (6.35)	.50 (12.70)	226-☐076-ND	5.76	5.12	4.23	3.84
	.250 (6.35)	.625 (15.875)	226-☐077-ND	6.41	5.70	4.71	4.28
	.250 (6.35)	.75 (19.05)	226-☐078-ND	6.89	6.12	5.05	4.59
	.250 (6.35)	.925 (23.50)	226-☐079-ND	7.45	6.62	5.47	4.97
7	.125 (3.18)	.50 (12.70)	226-☐084-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-☐085-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-☐086-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-☐087-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-☐092-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-☐093-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-☐094-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-☐095-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-☐088-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-☐089-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-☐090-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-☐091-ND	3.53	3.14	2.60	2.36
8	.125 (3.18)	.50 (12.70)	226-☐120-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-☐121-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-☐122-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-☐123-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-☐128-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-☐129-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-☐130-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-☐131-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-☐124-ND	3.20	2.84	2.35	2.13

† For complete part number, substitute the corresponding number option for ☐ (see web site for availability): **1** = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

(Continued)

KILO INTERNATIONAL

Machined Aluminum Instrumentation Knobs *(Cont.)*

RoHS COMPLIANT

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key† Part No.	Price Each			
				1	10	50	100
8	.250 (6.35)	.625 (15.875)	226-□125-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□126-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□127-ND	3.53	3.14	2.60	2.36
9	.125 (3.18)	.50 (12.70)	226-□096-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-4097-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-□098-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-□099-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□104-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□105-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□106-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□107-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-□100-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□101-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□102-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□103-ND	3.53	3.14	2.60	2.36
10	.125 (3.18)	.50 (12.70)	226-□132-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-4133-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-4134-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-4135-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□140-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□141-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□142-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□143-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-□136-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□137-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□138-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□139-ND	3.53	3.14	2.60	2.36
11	.125 (3.18)	.50 (12.70)	226-□108-ND	3.80	3.38	2.79	2.54
	.125 (3.18)	.625 (15.875)	226-□109-ND	3.94	3.50	2.89	2.63
	.125 (3.18)	.75 (19.05)	226-□110-ND	4.07	3.62	2.99	2.72
	.125 (3.18)	.925 (23.50)	226-□111-ND	4.28	3.80	3.14	2.85
	.236 (6.00)	.50 (12.70)	226-□116-ND	3.80	3.38	2.79	2.54
	.236 (6.00)	.625 (15.875)	226-□117-ND	3.94	3.50	2.89	2.63
	.236 (6.00)	.75 (19.05)	226-□118-ND	4.07	3.62	2.99	2.72
	.236 (6.00)	.925 (23.50)	226-□119-ND	4.28	3.80	3.14	2.85
	.250 (6.35)	.50 (12.70)	226-□112-ND	3.80	3.38	2.79	2.54
	.250 (6.35)	.625 (15.875)	226-□113-ND	3.94	3.50	2.89	2.63
	.250 (6.35)	.75 (19.05)	226-□114-ND	4.07	3.62	2.99	2.72
	.250 (6.35)	.925 (23.50)	226-□115-ND	4.28	3.80	3.14	2.85
12	.125 (3.18)	.50 (12.70)	226-□144-ND	3.80	3.38	2.79	2.54
	.125 (3.18)	.625 (15.875)	226-□145-ND	3.94	3.50	2.89	2.63
	.125 (3.18)	.75 (19.05)	226-□146-ND	4.07	3.62	2.99	2.72
	.125 (3.18)	.925 (23.50)	226-□147-ND	4.28	3.80	3.14	2.85
	.236 (6.00)	.50 (12.70)	226-□152-ND	3.80	3.38	2.79	2.54
	.236 (6.00)	.625 (15.875)	226-□153-ND	3.94	3.50	2.89	2.63
	.236 (6.00)	.75 (19.05)	226-□154-ND	4.07	3.62	2.99	2.72
	.250 (6.35)	.50 (12.70)	226-□148-ND	3.80	3.38	2.79	2.54
	.250 (6.35)	.625 (15.875)	226-□149-ND	3.94	3.50	2.89	2.63
	.250 (6.35)	.75 (19.05)	226-□150-ND	4.07	3.62	2.99	2.72
	.250 (6.35)	.925 (23.50)	226-□151-ND	4.28	3.80	3.14	2.85

† For complete part number, substitute the corresponding number option for □ (see web site for availability): **1** = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

Push-to-Turn Aluminum Knobs

RoHS COMPLIANT

DDSPT Model

Made in the USA

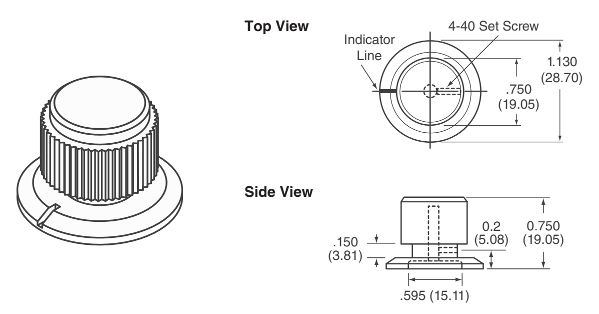

Features:
- Precision aluminum machined surfaces from bar stock
- Anodized finish gloss or matte
- Colors are clear or black
- DDSPT knobs have a single 4-40 set screw

Shaft Dia. Inch (mm)	Color/ Finish	Digi-Key Part No.	Price Each			
			1	10	50	100
.236 (6.00)	Clear/Gloss	226-1047-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Clear/Gloss	226-1045-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Black/Gloss	226-1049-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Black/Gloss	226-1048-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Clear/Matte	226-1052-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Clear/Matte	226-1053-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Clear/Matte	226-1051-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Black/Matte	226-1055-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Black/Matte	226-1056-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Black/Matte	226-1054-ND	16.85	14.98	12.36	11.24

Concentric Scale Dials

RoHS COMPLIANT

SERIES: 400, 500, 600, 3400

Made in the USA

Fig. 1

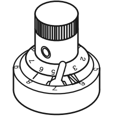

Fig. 2

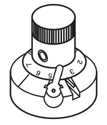

Fig. 3

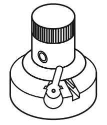

Fig. 4

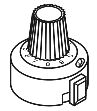

Features: Anodized precision machined aluminum exterior. Accommodates potentiometer shaft - 1/4" (6.35mm) with 3/8" x 32-NEF-2A bushing. Requires only one square inch of panel space.

400 Series: 1" (25.40mm) **10 Turn Calibration**. This world class turns-counting dial is designed for multi-turn potentiometers up to ten turns or other rotary devices. The knob/scale attaches directly to the shaft, and the body of the dial is mounted rigidly to the panel, therefore, accurate readings with a ratio of 1000 to 1 for ten turns are provided with no backlash or reading error. Available with or without locking mechanism.

500 Series: 1" (25.40mm) **1 Turn Calibrated scale.**

600 Series: 1" (25.40mm) **1 Turn Uncalibrated dial.**

3400 Series: 7/8" (22.23mm) **20 Turn Calibration.** Calibrated dial designed for multi-turn potentiometers up to twenty turns or other rotary devices. The turns counting digit appears in the window as the dial is rotated. Mounting bracket plate is installed between panel and panel nut, with the dial mounting directly to the potentiometer shaft.

Fig.	Description	Digi-Key Part No.	Price Each			Kilo Part No.
			1	5	10	
	Commercial 10 Turn (Calibrated)					
1	Black Anodize, No Lock	411KL-ND	19.72	18.31	16.91	411
	Black Anodize, with Lock	412KL-ND	20.77	19.29	17.81	412
	Clear Anodize, No Lock	461KL-ND	19.72	18.31	16.91	461
	Clear Anodize, with Lock	462KL-ND	19.72	18.31	16.91	462
	Commercial Single Turn (Calibrated)					
2	Black Anodize, with Lock	512KL-ND	19.13	17.85	17.00	512
	Clear Anodize, No Lock	561KL-ND	14.74	13.76	13.10	561
	Clear Anodize, with Lock	562KL-ND	19.13	17.85	17.00	562
	Commercial Single Turn (Uncalibrated)					
3	Black Anodize, with Lock	612KL-ND	18.52	17.29	16.46	612
	Clear Anodize, with Lock	662KL-ND	18.52	17.29	16.46	662
	Commercial 20 Turn (Calibrated)					
4	Black Anodize, with Lock	3412KL-ND	18.52	17.20	15.88	3412
	Clear Anodize, with Lock	3462KL-ND	18.52	17.20	15.88	3462

RoHS COMPLIANT ~ ISO 9001 CERTIFIED

KEYSTONE ELECTRONICS CORP

RoHS COMPLIANT

Instrumentation Knobs

Fig. 1

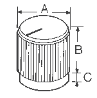

Skirted Round

Fig. 2

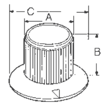

Round with Dial

Fig. 3

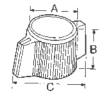

Double Bar

Fig. 4

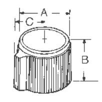

Single Bar

Fig.	Shaft Dia. – mm	Dimensions – mm			Digi-Key Part No.	Price Each		
		A	B	C		1	10	100
1	3.18	12.70	12.95	3.81	8554K-ND	6.06	5.66	5.54
	6.35	17.78	15.49	4.32	8555K-ND	6.27	5.86	5.74
	6.35	22.86	20.07	5.59	8556K-ND	6.45	6.02	5.94
2	3.18	12.70	13.97	22.86	8558K-ND	7.59	7.09	6.93
	6.35	17.78	18.03	29.21	8559K-ND	9.06	8.46	8.33
	6.35	22.86	22.10	38.74	8560K-ND	10.32	9.64	9.50
3	6.35	17.78	15.49	29.21	8565K-ND	7.68	7.17	7.04
	6.35	22.86	16.26	38.74	8566K-ND	8.28	7.73	7.52
4	3.18	12.70	12.95	8.89	8567K-ND	9.12	8.52	8.35
	6.35	17.78	15.49	11.68	8568K-ND	10.44	9.75	9.56
	6.35	22.86	20.07	14.99	8569K-ND	11.34	10.59	10.42

Knobs have a spun aluminum inlay with a clear coat finish.

Panasonic® Audio Potentiometers

9mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but E ≤ 50VAC/20VDC • Rotation Angle: 300° ±5° • Life: 10000 turns minimum • Application: Audio mixer

Fig. 1

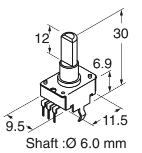

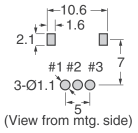

Footprint Applies to Figures 1, 2 and 3

Fig. 2

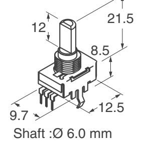

*** Hardware Included**

Fig. 3

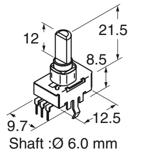

Fig. 4

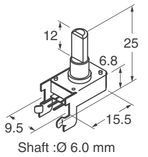

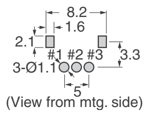

Footprint Applies to Figures 4, 5, and 6

Fig. 5

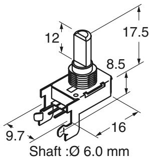

*** Hardware Included**

Fig. 6

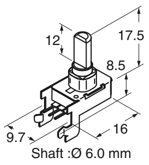

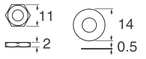

*** Hardware for Fig. 2 and Fig. 5**

12mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but E ≤ 50VAC/20VDC (Do not use DC Voltage) • Rotation Angle: 300° ±5° • Life: 15000 turns minimum • Application: Audio mixer

Fig. 7

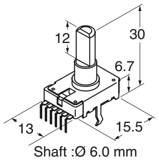

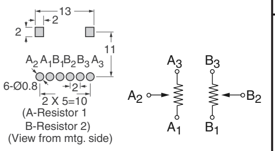

Footprint Applies to Figures 7, 8, and 9

Fig. 8

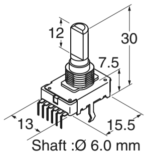

*** Hardware Included**

Fig. 9

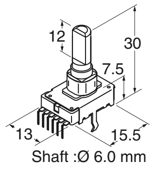

Fig. 10

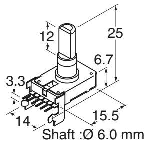

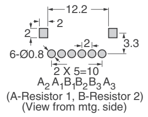

Footprint Applies to Figures 10, 11, and 12

Fig. 11

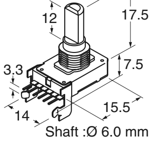

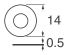

*** Hardware Included**

Fig. 12

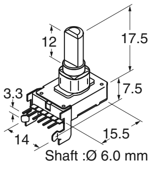

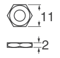

*** Hardware for Fig. 8 and Fig. 11**

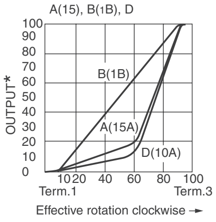

$\frac{\text{*Output V. between term. 1 \& 2}}{\text{Operating V. between term.1 \& 3}}$ X 100%

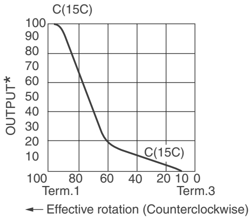

$\frac{\text{*Output V. between term. 2 \& 3}}{\text{Operating V. between term.1 \& 3}}$ X 100%

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	103 (10K)
203 (20K)	503 (50K)

Fig.	Taper	Center Detent	Bushing	Digi-Key Part No.	Pricing 1	50	100	250	Panasonic* Part No.
9mm Audio Potentiometers									
1	B	Y	None	P3A1□□□-ND	1.02	37.83	65.48	145.50	EVU-F3AF30B□□
	D	Y	None	P3B2□□□-ND	1.02	37.83	65.48	145.50	EVU-F3AF30D□□
	B	N	None	P3C3□□□-ND	1.09	40.43	69.98	155.50	EVU-F2AF30B□□
	D	N	None	P3D4□□□-ND	.96	35.62	61.65	137.00	EVU-F2AF30D□□
2	B	Y	Metal	P3E5□□□-ND◆	1.64	63.36	110.88	237.60	EVU-F3MFL3B□□
	D	Y	Metal	P3F6□□□-ND	1.64	63.36	110.88	237.60	EVU-F3MFL3D□□
	B	N	Metal	P3G7□□□-ND◆	1.58	61.32	107.31	229.95	EVU-F2MFL3B□□
	D	N	Metal	P3H8□□□-ND◆	1.58	61.32	107.31	229.95	EVU-F2MFL3D□□
3	B	Y	Plastic	P3I9□□□-ND	1.22	45.24	78.30	174.00	EVU-F3LFL3B□□
	D	Y	Plastic	P3J0□□□-ND	1.22	45.24	78.30	174.00	EVU-F3LFL3D□□
	B	N	Plastic	P3K1□□□-ND	1.16	42.90	74.25	165.00	EVU-F2LFL3B□□
	D	N	Plastic	P3L2□□□-ND	1.16	42.90	74.25	165.00	EVU-F2LFL3D□□
4	B	Y	None	P3M3□□□-ND	1.05	39.13	67.73	150.50	EVU-E3AF25B□□
	D	Y	None	P3N4□□□-ND	1.05	39.13	67.73	150.50	EVU-E3AF25D□□
	B	N	None	P3P5□□□-ND	.99	36.79	63.68	141.50	EVU-E2AF25B□□
	D	N	None	P3Q6□□□-ND	.99	36.79	63.68	141.50	EVU-E2AF25D□□
5	B	Y	Metal	P3R7□□□-ND	1.67	64.68	113.19	242.55	EVU-E3JFK4B□□
	D	Y	Metal	P3S8□□□-ND	1.67	64.68	113.19	242.55	EVU-E3JFK4D□□
	B	N	Metal	P3T9□□□-ND	1.61	62.40	109.20	234.00	EVU-E2JFK4B□□
	D	N	Metal	P3U0□□□-ND	1.61	62.40	109.20	234.00	EVU-E2JFK4D□□
6	B	Y	Plastic	P3W1□□□-ND	1.26	46.67	80.78	179.50	EVU-E3KFK4B□□
	D	Y	Plastic	P3X2□□□-ND	1.26	46.67	80.78	179.50	EVU-E3KFK4D□□
	B	N	Plastic	P3Y3□□□-ND	1.19	44.20	76.50	170.00	EVU-E2KFK4B□□
	D	N	Plastic	P3Z4□□□-ND	1.19	44.20	76.50	170.00	EVU-E2KFK4D□□
12mm Audio Potentiometers									
7	B	Y	None	P2A5□□□-ND	2.03	78.72	137.76	295.20	EVJ-Y81F30B□□
	AC	Y	None	P2B6□□□-ND	2.03	78.72	137.76	295.20	EVJ-YE1F30□□□
	A	N	None	P2C7□□□-ND	1.97	76.44	133.77	286.65	EVJ-Y00F30A□□
	D	N	None	P2D8□□□-ND	1.97	76.44	133.77	286.65	EVJ-Y00F30D□□
8	B	Y	Metal	P2E9□□□-ND	2.32	89.64	156.87	336.15	EVJ-Y91F03B□□
	AC	Y	Metal	P2F0□□□-ND	2.05	79.32	138.81	297.45	EVJ-YK1F03□□□
	A	N	Metal	P2G1□□□-ND	2.26	87.48	153.09	328.05	EVJ-Y10F03A□□
	D	N	Metal	P2H2□□□-ND	2.26	87.48	153.09	328.05	EVJ-Y10F03D□□
9	B	Y	Plastic	P2I3□□□-ND	2.21	85.56	149.73	320.85	EVJ-Y96F03B□□
	AC	Y	Plastic	P2J4□□□-ND	2.21	85.56	149.73	320.85	EVJ-YK6F03□□□
	A	N	Plastic	P2K5□□□-ND	2.16	83.52	146.16	313.20	EVJ-Y15F03A□□
	D	N	Plastic	P2L6□□□-ND	2.16	83.56	146.22	313.34	EVJ-Y15F03D□□
10	B	Y	None	P2M7□□□-ND	2.06	79.80	139.65	299.25	EVJ-C31F25B□□
	AC	Y	None	P2N8□□□-ND	2.06	79.80	139.65	299.25	EVJ-CV1F25□□□
	A	N	None	P2P9□□□-ND	2.00	77.52	135.66	290.70	EVJ-C00F25A□□
	D	N	None	P2Q0□□□-ND	2.00	77.52	135.66	290.70	EVJ-C00F25D□□
11	B	Y	Metal	P2R1□□□-ND	2.35	90.84	158.97	340.65	EVJ-C51F02B□□
	AC	Y	Metal	P2S2□□□-ND	2.35	90.84	158.97	340.65	EVJ-CC1F02□□□
	A	N	Metal	P2T3□□□-ND	2.02	78.29	137.00	293.58	EVJ-C20F02A□□
	D	N	Metal	P2U4□□□-ND	2.02	78.29	137.00	293.58	EVJ-C20F02D□□
12	B	Y	Plastic	P2W5□□□-ND	2.24	86.64	151.62	324.90	EVJ-C56F02B□□
	AC	Y	Plastic	P2X6□□□-ND	2.24	86.64	151.62	324.90	EVJ-CC6F02□□□
	A	N	Plastic	P2Y7□□□-ND	2.18	84.48	147.84	316.80	EVJ-C25F02A□□
	D	N	Plastic	P2Z8□□□-ND	2.18	84.48	147.84	316.80	EVJ-C25F02D□□

For complete number, substitute corresponding code (from above chart) for □□□.
* Call *Digi-Key* for help in assembling manufacturer part number. ◆ ***RoHS Compliant***

Panasonic®

Thumbwheel Potentiometers

Specifications: • Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: B taper - .03W, All others .01W • Voltage Rating: 50VAC/20VDC • Rotation Angle: 260° ±10° • Life: 10,000 turns minimum

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	203 (20K)
103 (10K)	503 (50K)

Fig.	Taper	Center Detent	Digi-Key Part No.	Pricing 1	50	100	250	Panasonic* Part No.
1	A	N	P4A9□□□-ND	1.54	59.58	104.27	223.43	EVL-HFAA01A□□
2	A	N	P4C1□□□-ND	1.54	59.60	104.30	223.51	EVL-HFAA06A□□
	B	N	P4D2□□□-ND◆	1.54	59.60	104.30	223.51	EVL-HFAA06B□□
1	A	Y	P4E3□□□-ND	1.72	66.73	116.78	250.24	EVL-HFKA01A□□
	B	Y	P4F4□□□-ND	1.72	66.73	116.78	250.24	EVL-HFKA01B□□
3	A	N	P4K9□□□-ND◆	1.54	59.58	104.27	223.43	EVL-HFAA05A□□
	B	N	P4L0□□□-ND◆	1.54	59.58	104.27	223.43	EVL-HFAA05B□□
3	A	Y	P4M1□□□-ND◆	1.72	66.73	116.78	250.24	EVL-HFKA05A□□
	B	Y	P4N2□□□-ND◆	1.72	66.73	116.78	250.24	EVL-HFKA05B□□

For complete number, substitute corresponding code (from chart above) for □□□.
* Call Digi-Key for help in assembling manufacturer part number. ◆ *RoHS Compliant*

Specifications: • Tolerance: ±30% • Power Rating: .01W • Rotation Angle: 270° ±5° • Life: P4G5102-ND 5,000 turns minimum, All others 10,000 turns minimum • No center detent

Fig.	Dual Taper	Rated Voltage	Resistance (Ω)	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
4	A/A	0.5VAC	1K	P4G5102-ND	.80	33.34	53.34	EVU-TW1B24A13

Fig. 1

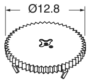

Fig. 2

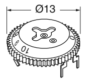

Footprint Applies to both Fig. 1 and 2

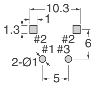

(View from mtg. side)

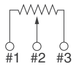

Element Circuit Diagram

Fig. 3

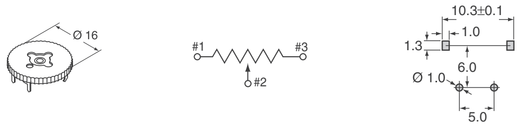

Fig. 4

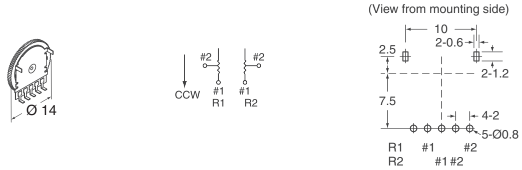

16mm Shaftless Potentiometers with Detents

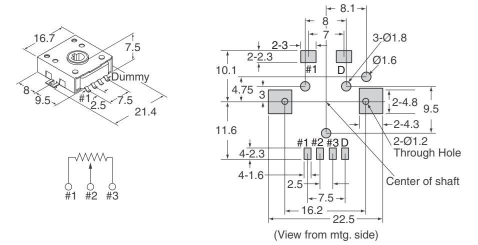

Recommended Applications: • Function switching and adjusting for control panels of car air conditioners
Features: • Small size • High click torque • External Dimensions: 16.7mm x 16.3mm x 6.0mm • Through hole for a shaft • Suitable for reflow soldering
Mechanical Specifications: • Rotation Torque: 40 mN·m ±15 mN·m • Detent Pitch: (12, 7 active) 30° ±3° • Rotation Angle: 360° Endless
Electrical Specifications: • Power Rating: 0.05W • Nominal Total Resistance: 10kΩ ±30% • Taper: B • Rotation Life: 30,000 nominal
Operating Temperature: -40°C ~ 85°C

Detent Number	1	2	3	4	5	6	7
Angle	90°	120°	150°	180°	210°	240°	270°
Output/Initial	5% max.	16.7% ±5%	33.3% ±5%	50% ±5%	66.7% ±5%	83.3% ±5%	95% min.

Description	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	T & R Pricing 350	Panasonic Part No.
10KΩ,12 Detents, SMD	P12427CT-ND	6.03	243.03	437.45	P12427TR-ND	1020.60	EWV-YC8B14

EVWAE 10mm GS Sensors

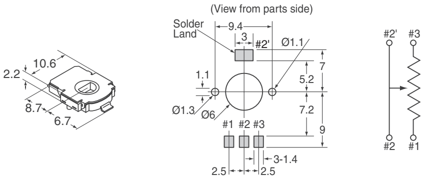

Low profile, long life sensor, which is suitable for detecting the angles of rotating axes, such as air conditioner dampers.

Recommended Applications: • Detection of air conditioner damper angles • Detection of various control unit angles

Features: • Low profile (H=2.2mm) • Long operation life: 1 million operation cycles assured, a wide electrical output angle of a maximum 347°

Specifications: • Rating: 0.05W, 5V • Operating Force: 3 mN.m maximum • Linearity: ±3% maximum • Operation Life: 1,000,000 cycles (operation Angle ±30°) • Total Resistance: 10kΩ ±30%

Operating Temperature: -40°C ~ 85°C

Description	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	T & R Pricing 1,500	Panasonic Part No.
10KΩ, 10mm, SMD	P12426CT-ND	2.06	83.00	148.82	P12426TR-ND	744.00/M	EVW-AE4001B14

5mm Square Single-Turn Cermet Potentiometers

MBG Series

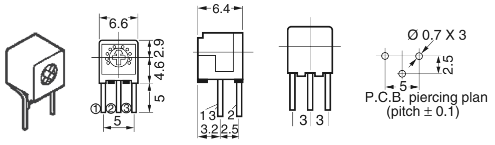

MSG Series

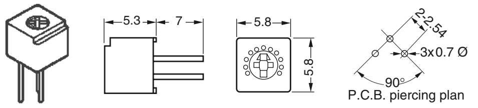

SPECIFICATIONS:

Mechanical Characteristics:

- Total rotation angle: Adjustment angle 200° nominal
- Soldering: Within 5 seconds maximum at 300°C

Electrical Characteristics:

- Resistance Range: 500Ω to 2 MΩ
- Tolerance: ±20%
- Power Rating: 0.5W at 70°C
- Maximum Voltage: 200V
- Dielectric Withstanding Voltage: 600VAC for one minute
- Temperature Coefficient: ±100ppm/°C
- Insulation Resistance: 100MΩ

Environmental Characteristics:

- Operating Temperature Range: -55°C ~ 125°C
- Vibration: 20G
- Shock: 180G
- Seal: MIL-R-22097 Immersion

Res. (Ω)	Digi-Key Part No. Side Adjust	Digi-Key Part No. Top Adjust	Pricing 1	50	100	250	500	Panasonic Part No. Side Adjust	Panasonic Part No. Top Adjust
500K	MBG52-ND	—	1.42	54.81	95.93	205.56	342.59	EVM-MBGA01B52	—
1K	—	MSG13-ND	1.42	54.81	95.93	205.56	342.59	—	EVM-MSGA01B13
500K	—	MSG55-ND	1.42	54.81	95.93	205.56	342.59	—	EVM-MSGA01B55
1M	MBG16-ND	—	1.42	54.81	95.93	205.56	342.59	EVM-MBGA01B16	—
2M	—	MSG26-ND	1.42	54.81	95.93	205.56	342.59	—	EVM-MSGA01B26

Slide Potentiometers for Audio Mixer Applications

Fig. 1 – Thin Type

Features: • Thin and compact design with 8mm body height and 15mm width • Light sliding force and excellent operation • Highly accurate attenuation characteristics, maximum attenuation of more than 100dB, and low noise **Recommended Applications:** • Fade control for common type audio mixers

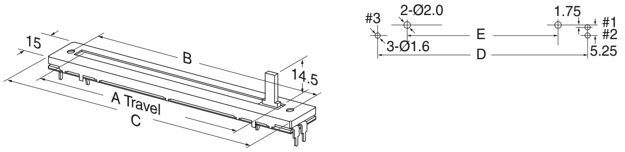

Travel = A	B	C	D	E
100	120	128	127.5	96
60	80	88	87.5	56

Fig. 2 – Mono Type

Features: • Slim type fader, 9mm width, 8mm height • Excellent cost performance applicable to audio mixers for amateur use **Recommended Applications:** • Fade control for audio mixers • Multi-Track Recorders • Paper position sensors for copiers

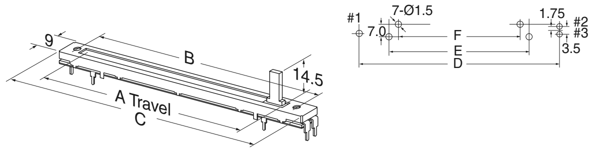

Travel = A	B	C	D	E	F
100	120	128	127.5	92.5	87.5
60	80	88	87.5	52.5	47.5

Fig. 3 – Standard Type

Features: • Excellent operational feeling • Low noise, long operational life, highly accurate attenuation **Recommended Applications:** • Fade control for audio mixers and musical key boards • Heat control or mode switching for car air conditioners • Measurement instruments

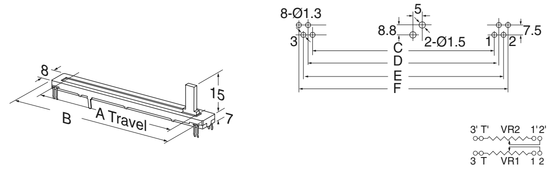

CIRCUIT DIAGRAM
(Note for Single: Do not connect dummy terminal 1' and others
3 and T- short terminals
1', 2', 3' and T'- dummy terminals
Note for Dual: 3 and T- short terminals
3' and T'- short terminals)

Travel = A	B	C	D	E	F
60	75	64	67	70	73
45	60	49	52	55	58

Fig. 4 – Motor Type

Features: • Excellent operation feeling, high speed driving and power saving design • Dust-proof mounting possible by 90° off set lever design **Recommended Application:** • Automated Audio Mixers (Common/Amateur Type)

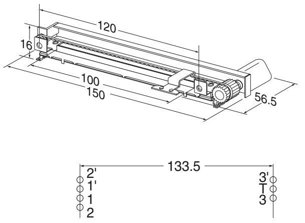

Taper

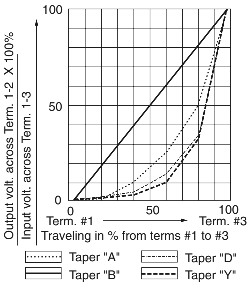

Fig.	Resist. (Ω)	Style	Travel (mm)	Single/ Dual	Taper	Digi-Key Part No.	Price Each 1	50	100	250	Panasonic Part No.
1	10K	Thin	100	S	Y	PJQ100SY-ND	8.17	6.30	5.45	4.94	EVA-JQKR15Y14
	10K	Thin	100	S	A	PJQ100SA-ND◆	8.17	6.30	5.45	4.94	EVA-JQKR15A14
	10K	Thin	100	S	D	PJQ100SD-ND	8.17	6.30	5.45	4.94	EVA-JQKR15D14
	10K	Thin	100	S	B	PJQ100SB-ND◆	8.17	6.30	5.45	4.94	EVA-JQLR15B14
	10K	Thin	100	D	Y	PJQ100DY-ND◆	10.44	8.05	6.96	6.31	EVB-JQKR15Y14
	10K	Thin	100	D	A	PJQ100DA-ND	10.44	8.05	6.96	6.31	EVB-JQKR15A14
	10K	Thin	100	D	D	PJQ100DD-ND	10.44	8.05	6.96	6.31	EVB-JQKR15D14
	10K	Thin	60	S	Y	PNA060SY-ND	7.72	5.95	5.15	4.67	EVA-NADR15Y14
	10K	Thin	60	S	A	PNA060SA-ND	7.72	5.95	5.15	4.67	EVA-NADR15A14
	10K	Thin	60	S	D	PNA060SD-ND	7.72	5.95	5.15	4.67	EVA-NADR15D14
	10K	Thin	60	S	B	PNA060SB-ND◆	6.90	5.32	4.60	4.17	EVA-NAHR15B14
	10K	Thin	60	D	Y	PNA060DY-ND	9.98	7.70	6.66	6.04	EVB-NADR15Y14
	10K	Thin	60	D	A	PNA060DA-ND	8.83	6.81	5.89	5.34	EVB-NADR15A14
	10K	Thin	60	D	D	PNA060DD-ND	8.83	6.81	5.89	5.34	EVB-NADR15D14
2	10K	Mono	100	S	Y	PNF100SY-ND◆	6.82	5.26	4.55	4.13	EVA-NF4R15Y14
	10K	Mono	100	S	A	PNF100SA-ND◆	6.82	5.26	4.55	4.13	EVA-NF4R15A14
	10K	Mono	100	S	D	PNF100SD-ND◆	6.82	5.26	4.55	4.13	EVA-NF4R15D14
	10K	Mono	100	S	B	PNF100SB-ND◆	6.81	5.25	4.54	4.12	EVA-NF3R15B14
	10K	Mono	60	S	Y	PNE060SY-ND	6.82	5.26	4.55	4.13	EVA-NE4R15Y14
	10K	Mono	60	S	A	PNE060SA-ND◆	6.82	5.26	4.55	4.13	EVA-NE4R15A14
	10K	Mono	60	S	D	PNE060SD-ND◆	6.82	5.26	4.55	4.13	EVA-NE4R15D14
	10K	Mono	60	S	B	PNE060SB-ND	6.39	4.92	4.31	3.69	EVA-NE3R15B14
3	10K	Standard	60	S	A	PQ1060SA-ND	3.70	2.85	2.45	2.12	EWA-Q10C15A14
	10K	Standard	60	S	D	PQ1060SD-ND	3.70	2.85	2.45	2.12	EWA-Q10C15D14
	10K	Standard	60	S	B	PQ1060SB-ND◆	3.70	2.85	2.45	2.12	EWA-Q12C15B14
	10K	Standard	60	D	A	PQ3060DA-ND◆	4.18	3.22	2.82	2.42	EWA-Q30C15A14
	10K	Standard	60	D	D	PQ3060DD-ND◆	4.18	3.22	2.82	2.42	EWA-Q30C15D14
	10K	Standard	45	S	A	PP1045SA-ND	3.18	2.44	2.10	1.82	EWA-P10C15A14
	10K	Standard	45	S	D	PP1045SD-ND◆	3.18	2.44	2.10	1.82	EWA-P10C15D14
	10K	Standard	45	S	B	PP1045SB-ND◆	3.18	2.44	2.10	1.82	EWA-P12C15B14
	10K	Standard	45	D	A	PP3045DA-ND◆	3.97	3.05	2.63	2.27	EWA-P30C15A14
	10K	Standard	45	D	D	PP3045DD-ND◆	3.97	3.05	2.63	2.27	EWA-P30C15D14
4	10K	Motor	100	S	Y	PNC100SY-ND◆	38.43	29.65	29.61	—	EVB-NC2P088BL

◆ ***RoHS Compliant***

Linear Position Sensors

Features: • High-performance sensor • Linearity ± 0.5% (EVAJ-Type) ± 0.2% (EVAW-Type) • Long life and high resolution

Specifications: • Voltage Rating: 5VDC maximum • Taper: B (EIAJ 1B) • Operating force 0.25 N for EVA-W, 0.5 N for EVA-J

Recommended Applications: • Detection of camera/camcorder lens positions • Detection of seat positions for automobiles • Detection of positions in tilt and telescopic mechanisms for automobiles • Detection of headlight angle for automobiles

Fig.	Total Resistance	Travel (mm)	Operating Life	Digi-Key Part No.	Price Each 1	50	100	Panasonic Part No.
1	10KΩ ± 30%	32.0	100K Cycles	P12338-ND	2.52	1.95	1.71	EVA-JGTJ20B14
2	30KΩ ± 30%	9.0	20K Cycles	P13569-ND	1.66	1.29	1.13	EVA-W7NR04B34

Fig. 1

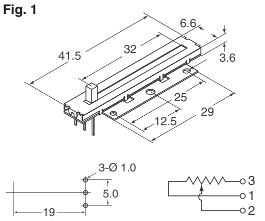

Fig. 2

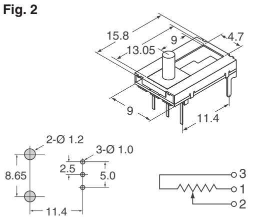

Surface Mount Trimmer Potentiometers

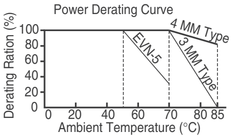

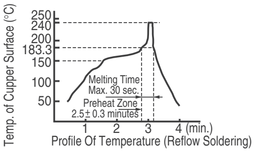

Profile for Reflow Soldering
Pre-Heat: 130°C ~ 160°C
Melting Temp.: TM = 183.3°C
Peak Time: Tp ≤ 240°C
Melting Temp.: TM ≤ 30s
Solder: Eutectic
Flux: Rosin Flux

Series P7J – Panasonic Series #EVM-7JSX30BXX

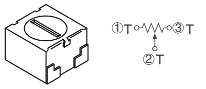

Features: • 3mm sealed type for flow and reflow soldering • Labor cost saving filmless sealed construction; **Resistance Range:** 330-470K; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .05W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 10; **Soldering Heat:** 250°C 10s/260°C 5s

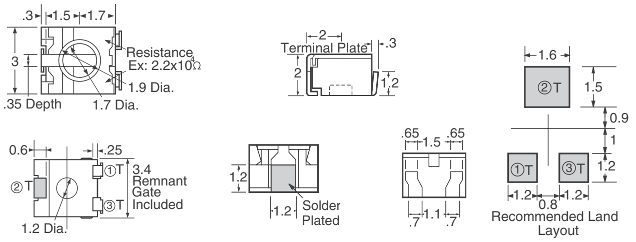

Series P1S – Panasonic Series #EVM-1SSX50BXX

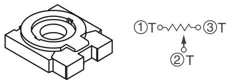

Features: • 3mm open frame type for reflow soldering • Excellent mounting efficiency; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

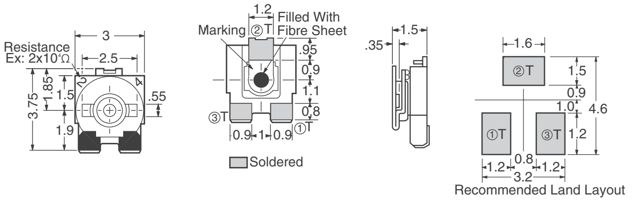

Series P1G – Panasonic Series #EVM-1GSX30BXX

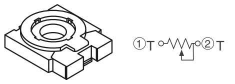

Features: • 4mm open frame type for reflow soldering • Two terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

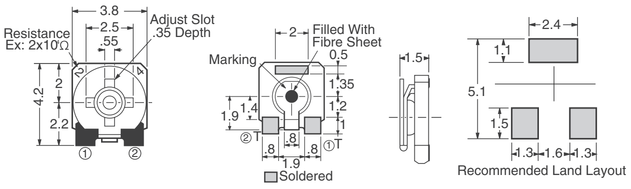

Series P1E – Panasonic Series #EVM-1ESX30BXX

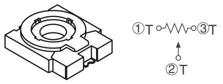

Features: • 4mm open frame type for reflow soldering • Inline terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

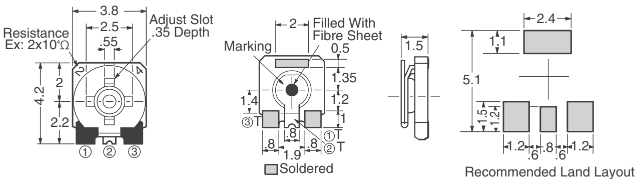

Series P1D – Panasonic Series #EVM-1DSX30BXX

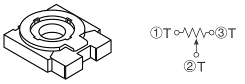

Features: • 4mm open frame type for reflow soldering • Triangle terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

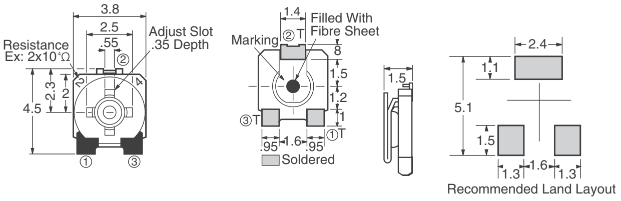

Series P5C – Panasonic Series #EVN-5CSX50BXX*
Series P5E – Panasonic Series #EVN-5ESX50BXX

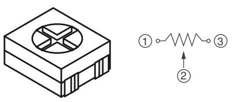

Features: • 3mm carbon dust proof type for reflow soldering • Excellent mounting efficiency for pick and place assembly; • Rotation stopper feature (EVN-5E); **Resistance Range:** 500-1MΩ; **Tolerance:** ±30%; **Taper:** Linear; **Power Rating:** .05W @50C; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 70°C; **Temperature Coefficient:** ±500 ppm/C(25°C ~ 70°C) / ±750 ppm/C (-20°C ~ 25°C); **Rotation Life:** 20; **Soldering Heat:** 280°C 3s

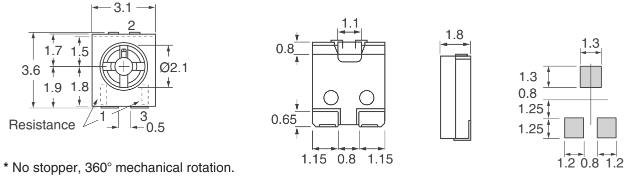

* No stopper, 360° mechanical rotation.

Digi-Key Part No.†	Cut Tape Pricing 1	50	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000	2,000	Panasonic Part No.*
P7J□□□CT-ND	.91	33.59	61.73	P7J□□□TR-ND	249.00	—	EVM-7JSX30BXX
P1S□□□CT-ND	.99	26.46	46.30	P1S□□□TR-ND	—	182.00/M	EVM-1SSX50BXX
P1G□□□CT-ND	.94	25.08	43.89	P1G□□□TR-ND	172.00	—	EVM-1GSX30BXX
P1E□□□CT-ND	1.35	36.00	63.00	P1E□□□TR-ND	248.00	—	EVM-1ESX30BXX
P1D□□□CT-ND	1.24	33.00	57.75	P1D□□□TR-ND	227.00	—	EVM-1DSX30BXX
P5C□□□CT-ND◆	.75	19.24	31.71	P5C□□□TR-ND◆	—	120.00/M	EVN-5CSX50BXX
P5E□□□CT-ND◆	.78	19.31	30.17	P5E□□□TR-ND◆	—	111.00/M	EVN-5ESX50BXX

◆ ***RoHS Compliant*** * For assistance with Panasonic Part Number please call Digi-Key.
† For complete number, substitute corresponding code (from chart) for □□□.

Digi-Key® **SMT Trimmer Potentiometers Kits**

P1E-KIT-ND	10 each of Series P1E, values 100 - 1.0M (130 pieces)	**$43.95**
P1D-KIT-ND	10 each of Series P1D, values 100 - 1.0M (130 pieces)	**$43.95**

Code Resistance Value For P7J Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
332 (3.3K)	333 (33K)	224 (220K)	334 (330K)	474 (470K)

Code Resistance Value For P1 / P5C Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 104 (100K)	501 (500) 204 (200K)	102 (1.0K) 504 (500K)	202 (2.0K) 105 (1.0M)	502 (5.0K)	203 (20K)	503 (50K)

Code Resistance Value For P5E Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 105 (1M)	102 (1K)	502 (5K)	203 (20K)	503 (50K)	204 (200K)	504 (500K)

(Continued)

Series P2N – Panasonic Series #EVM-2NSX80BXX

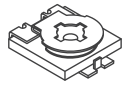

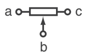

Features: 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 0.5-10 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

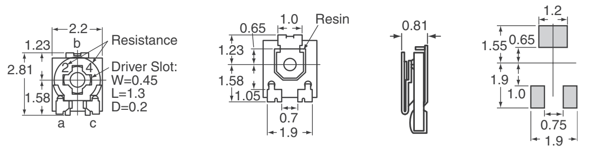

Series P2W – Panasonic Series #EVM-2WSX80BXX

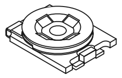

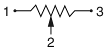

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

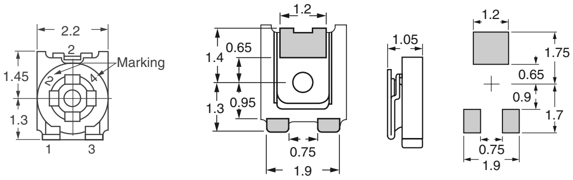

Series P2X – Panasonic Series #EVM-2XSX50BXX

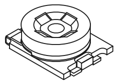

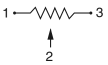

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

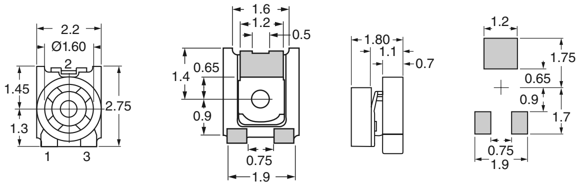

Series P3R – Panasonic Series #EVM-3RSX50BXX

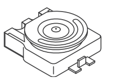

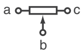

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 1-20 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

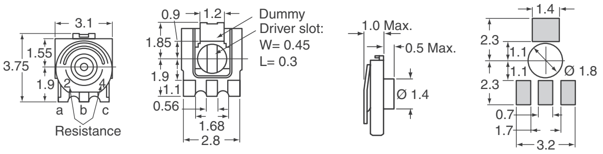

Series P3Y – Panasonic Series #EVM-3YSX50BXX

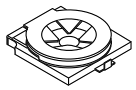

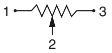

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

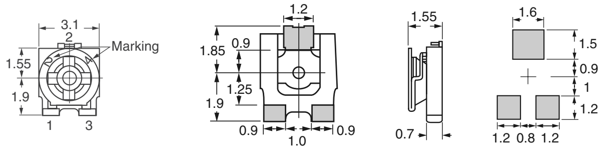

Series P3V – Panasonic Series #EVM-3VSX50BXX

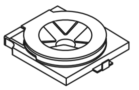

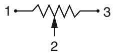

Features: • 3mm open frame type for reflow soldering • Rotation stopper feature; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-100 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

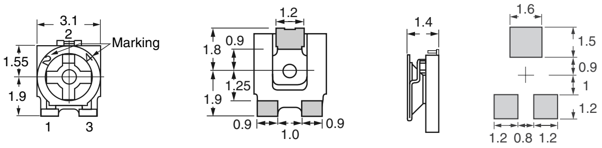

Series P3W – Panasonic Series #EVM-3WSX80BXX

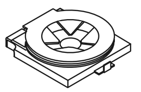

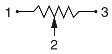

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

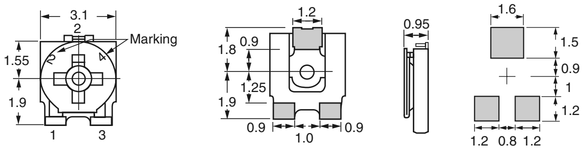

Series P1U – Panasonic Series #EVM-1USX30BXX

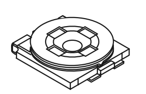

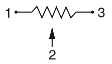

Features: • 4mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (25°C ~ 100°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

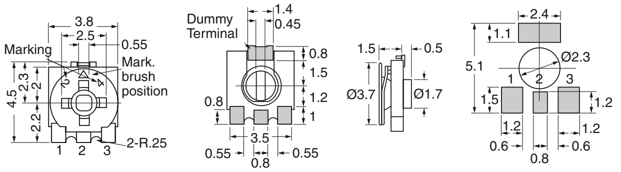

Digi-Key Part No.†	Cut Tape Pricing 1	50	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000	2,000	3,000	Panasonic Part No.*
P2N□□□CT-ND◆	1.10	40.52	74.46	P2N□□□TR-ND◆	—	—	288.00/M	EVM-2NSX80BXX
P2W□□□CT-ND	1.05	38.85	71.40	P2W□□□TR-ND	—	—	276.00/M	EVM-2WSX80BXX
P2X□□□CT-ND	.87	32.16	59.10	P2X□□□TR-ND	—	238.00/M	—	EVM-2XSX50BXX
P3R□□□CT-ND◆	1.05	41.89	74.32	P3R□□□TR-ND◆	—	351.00/M	—	EVM-3RSX50BXX
P3Y□□□CT-ND	1.05	28.00	49.00	P3Y□□□TR-ND	—	186.00/M	—	EVM-3YSX50BXX
P3V□□□CT-ND	1.31	34.80	60.90	P3V□□□TR-ND	—	231.00/M	—	EVM-3VSX50BXX
P3W□□□CT-ND	1.31	34.80	60.90	P3W□□□TR-ND	—	—	231.00/M	EVM-3WSX80BXX
P1U□□□CT-ND	1.01	37.37	68.68	P1U□□□TR-ND	273.00	—	—	EVM-1USX30BXX

◆ ***RoHS Compliant*** * For assistance with Panasonic Part Number, please call Digi-Key.
† For complete number, substitute corresponding code (from chart) for □□□.

Code Resistance Value For P2N / P2W / P2X Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 203 (20K)	501 (500) 503 (50K)	102 (1.0K) 104 (100K)	202 (2.0K) 204 (200K)	502 (5.0K) 504 (500K)	103 (10K) 105 (1.0M)

Code Resistance Value For P3Y / P3W / P1U Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 203 (20K)	201 (200) 503 (50K)	501 (500) 104 (100K)	102 (1.0K) 204 (200K)	202 (2.0K) 504 (500K)	502 (5.0K) 105 (1.0M)	103 (10K)

Code Resistance Value For P3R / P3V Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 104 (100K)	102 (1K) 204 (200K)	202 (2K) 504 (500K)	502 (5K) 105(1M)	103 (10K)	203 (20K)	503 (50K)

Panasonic

6mm Square Ceramic Trimmer Potentiometers

EVM-EAG / EAS / EGG / EGS Series:

Dustproof Type with Knob Protection: Features: • No readjustment needed through knob protected construction • Excellent mounting efficiency due to cubic shape • Automated adjustment available. Face side: Standard cross slot screwdriver suited to automatic adjustment applicable. Back side: Penetrated slot for easy driving. **Applications:** • Audio visual equipment, home appliances.

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C. • TCR: ±200ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating and Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240 to 280°C, 3s maxium 280 to 300°C • Rotation Life: 50 turns

EVM-EYG and EVM-EYS Series:

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C • TCR: ±100ppm (-40°C ~ 120°C) • Nominal Total Resistance & Tolerance: ±20% • Power Rating and Maximum Operating Voltage: 0.5W, 200V (70°C) • Residual Resistance: 2% • Soldering Heat: 260°C ±5°C for 5 ±1 Second • Rotation Life: 50 turns

EVM-AAS Series:

Specifications: • Resistance Range: 100Ω – 1mΩ • Tolerance: ±25% • Taper: Linear • Residual Resistance: 2% • Wattage Rating: 0.3W • Volt Rating: 100V • TCR: ±200ppm • Torque: 20 to 300gf • Stopper Strength: 350gf • Rotational Angle: 240°C ±20°C • Operational Temperature: -30°C ~ 100°C

EVM-F6S Series:

Features: • Higher performance dustproof type • Excellent reliability for heat and humidity • High speed radial automatic mounting and excellent mounting performance

Applications: • Audio visual equipment, home appliances

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 350gf • Rotation Angle: 240°C ±20°C • TCR: ±300ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240°C ~ 280°C, 3s maximum 280°C ~ 300°C • Rotation Life: 50 turns.

Fig. 1 - Top Adjust

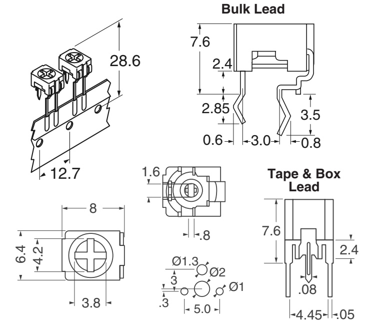

Fig. 2 - Side Adjust

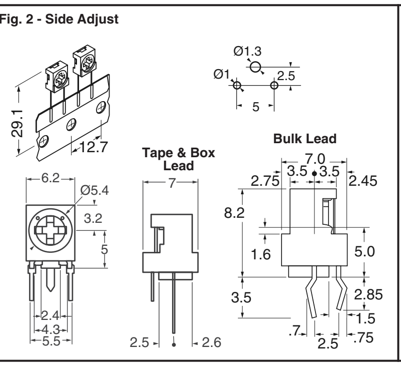

Fig. 3 - Top Adjust

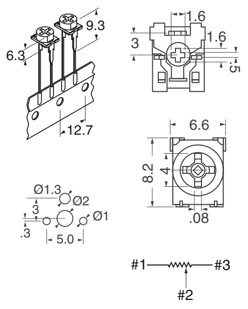

Fig. 4 - Top Adjust

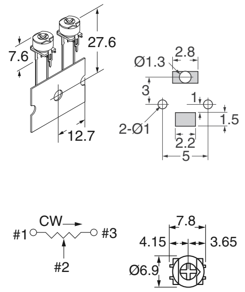

EVM-EAG Series — Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	50	100	250	Panasonic Part No.
1	100	EAG12BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B12
	200	EAG22BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B22
	500	EAG52BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B52
	1K	EAG13BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B13
	2K	EAG23BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B23
	5K	EAG53BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B53
	10K	EAG14BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B14
	20K	EAG24BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B24
	50K	EAG54BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B54
	100K	EAG15BK-ND◆	.79	27.59	47.90	104.12	EVM-EAGA00B15
	200K	EAG25BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B25
	500K	EAG55BK-ND	.79	27.59	47.90	104.12	EVM-EAGA00B55

EVM-EAS Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Box Pricing 1,000	Panasonic Part No.
1	100	EAS12CT-ND	1.01	37.41	68.75	EAS12TB-ND	277.30	EVM-EASA00B12
	200	EAS22CT-ND	1.01	37.41	68.75	—	—	EVM-EASA00B22
	500	—	—	—	—	EAS52TB-ND◆	277.30	EVM-EASA00B52
	1K	EAS13CT-ND	1.01	37.41	68.75	EAS13TB-ND	277.30	EVM-EASA00B13
	2K	EAS23CT-ND	1.01	37.41	68.75	EAS23TB-ND	277.30	EVM-EASA00B23
	5K	EAS53CT-ND	1.01	37.41	68.75	EAS53TB-ND	277.30	EVM-EASA00B53
	10K	—	—	—	—	EAS14TB-ND◆	277.30	EVM-EASA00B14
	20K	EAS24CT-ND	1.01	37.41	68.75	EAS24TB-ND	277.30	EVM-EASA00B24
	50K	—	—	—	—	EAS54TB-ND	277.30	EVM-EASA00B54
	100K	—	—	—	—	EAS15TB-ND	277.30	EVM-EASA00B15
	200K	—	—	—	—	EAS25TB-ND	277.30	EVM-EASA00B25
	500K	EAS55CT-ND	1.01	37.41	68.75	EAS55TB-ND	277.30	EVM-EASA00B55
	1M	EAS16CT-ND	1.01	37.41	68.75	EAS16TB-ND	277.30	EVM-EASA00B16

EVM-EYG Series — High Grade, Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	50	100	250	Panasonic Part No.
1	2K	EYG23BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B23
	20K	EYG24BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B24
	50K	EYG54BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B54
	100K	EYG15BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B15
	200K	EYG25BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B25
	500K	EYG55BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B55
	1M	EYG16BK-ND	.79	29.47	51.01	113.35	EVM-EYGA00B16

EVM-EYS Series — High Grade, Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Tape and Box Pricing 1,000	Panasonic Part No.
1	2K	EYS23TB-ND	310.34	EVM-EYSA00B23
	5K	EYS53TB-ND	310.34	EVM-EYSA00B53
	10K	EYS14TB-ND	310.34	EVM-EYSA00B14
	20K	EYS24TB-ND	310.34	EVM-EYSA00B24
	50K	EYS54TB-ND	310.34	EVM-EYSA00B54
	200K	EYS25TB-ND	310.34	EVM-EYSA00B25
	500K	EYS55TB-ND	310.34	EVM-EYSA00B55
	1M	EYS16TB-ND	310.34	EVM-EYSA00B16

EVM-EGG Series — Side Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	50	100	250	Panasonic Part No.
2	100	EGG12BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B12
	200	EGG22BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B22
	500	EGG52BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B52
	1K	EGG13BK-ND◆	.77	26.79	46.51	101.11	EVM-EGGA00B13
	2K	EGG23BK-ND◆	.77	26.79	46.51	101.11	EVM-EGGA00B23
	5K	EGG53BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B53
	10K	EGG14BK-ND◆	.77	26.79	46.51	101.11	EVM-EGGA00B14
	20K	EGG24BK-ND◆	.77	26.79	46.51	101.11	EVM-EGGA00B24
	50K	EGG54BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B54
	100K	EGG15BK-ND◆	.77	26.79	46.51	101.11	EVM-EGGA00B15
	200K	EGG25BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B25
	500K	EGG55BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B55
	1M	EGG16BK-ND	.77	26.79	46.51	101.11	EVM-EGGA00B16

EVM-EGS Series — Side Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Box Pricing 1,000	Panasonic Part No.
2	100	EGS12CT-ND	1.04	38.52	70.80	EGS12TB-ND	285.56	EVM-EGSA00B12
	200	EGS22CT-ND	1.04	38.52	70.80	EGS22TB-ND	285.56	EVM-EGSA00B22
	500	EGS52CT-ND	1.04	38.52	70.80	EGS52TB-ND	285.56	EVM-EGSA00B52
	1K	EGS13CT-ND	1.04	38.52	70.80	EGS13TB-ND	285.56	EVM-EGSA00B13
	2K	EGS23CT-ND	1.04	38.52	70.80	EGS23TB-ND◆	285.56	EVM-EGSA00B23
	5K	EGS53CT-ND	1.04	38.52	70.80	EGS53TB-ND	285.56	EVM-EGSA00B53
	10K	—	—	—	—	EGS14TB-ND◆	285.56	EVM-EGSA00B14
	20K	EGS24CT-ND	1.04	38.52	70.80	EGS24TB-ND	285.56	EVM-EGSA00B24
	50K	EGS54CT-ND	1.04	38.52	70.80	EGS54TB-ND	285.56	EVM-EGSA00B54
	100K	—	—	—	—	EGS15TB-ND◆	285.56	EVM-EGSA00B15
	200K	—	—	—	—	EGS25TB-ND	285.56	EVM-EGSA00B25
	500K	EGS55CT-ND	1.04	38.52	70.80	EGS55TB-ND	285.56	EVM-EGSA00B55
	1M	—	—	—	—	EGS16TB-ND	285.56	EVM-EGSA00B16

EVM-F6S Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape and Box Pricing 1,000	5,000	Panasonic Part No.
3	1K	—	—	—	—	F6SA13TB-ND	213.00	197.00/M	EVM-F6SA00B13
	50K	F6SA54CT-ND	1.06	28.15	49.26	—	—	—	EVM-F6SA00B54
	200K	F6SA25CT-ND	1.06	28.15	49.26	—	—	—	EVM-F6SA00B25
	500K	F6SA55CT-ND	1.06	28.15	49.26	F6SA55TB-ND	213.00	197.00/M	EVM-F6SA00B55

EVM-AAS Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	50	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
4	100	AAS12CT-ND	1.25	33.20	58.10	AAS12TB-ND	228.25	EVM-AASA00B12
	200	AAS22CT-ND	1.25	33.20	58.10	AAS22TB-ND	228.25	EVM-AASA00B22
	500	AAS52CT-ND◆	1.25	33.20	58.10	AAS52TB-ND◆	228.25	EVM-AASA00B52
	1K	AAS13CT-ND◆	1.25	33.20	58.10	AAS13TB-ND◆	228.25	EVM-AASA00B13
	2K	AAS23CT-ND	1.25	33.20	58.10	AAS23TB-ND	228.25	EVM-AASA00B23
	5K	AAS53CT-ND◆	1.25	33.20	58.10	AAS53TB-ND◆	228.25	EVM-AASA00B53
	10K	AAS14CT-ND◆	1.25	33.20	58.10	AAS14TB-ND◆	228.25	EVM-AASA00B14
	20K	AAS24CT-ND◆	1.25	33.20	58.10	AAS24TB-ND◆	228.25	EVM-AASA00B24
	50K	AAS54CT-ND	1.25	33.20	58.10	AAS54TB-ND	228.25	EVM-AASA00B54
	100K	AAS15CT-ND	1.25	33.20	58.10	AAS15TB-ND	228.25	EVM-AASA00B15
	200K	AAS25CT-ND	1.25	33.20	58.10	AAS25TB-ND	228.25	EVM-AASA00B25
	500K	AAS55CT-ND	1.25	33.20	58.10	AAS55TB-ND	228.25	EVM-AASA00B55
	1M	AAS16CT-ND	1.25	33.20	58.10	AAS16TB-ND	228.25	EVM-AASA00B16

◆ ***RoHS Compliant***

Panasonic Ceramic Trimmer Potentiometers

Series EVM-L4G, EVM-L1G, EVM-5AG, and EVM-4LG

Specifications:

• Resistance Range: 100Ω to 1MΩ • Taper: Linear • Tolerance: 25% • Residual: EVM-L4G and EVM-L1G: 5%; EVM-5AG and EVM-4LG: 2% • Wattage Rating: EVM-L4G and EVM-L1G: .2W; EVM-5AG and EVM-4LG: .3W • Voltage Rating: EVM-L4G and EVM-L1G: 50V; EVM-5AG and EVM-4LG: 100V • TCR: EVM-L4G and EVM-L1G: ±300ppm; EVM-5AG and EVM-4LG: ±200ppm • Torque: 20-250 gf • Stopper Strength: EVM-L4G and EVM-L1G: 400gF; EVM-5AG and EVM-4LG: 300gF • Angle of Rotation: 200° ±20° • Operating Temperature: -30°C ~ 100°C

Fig. 1 — 4mm, Vertical

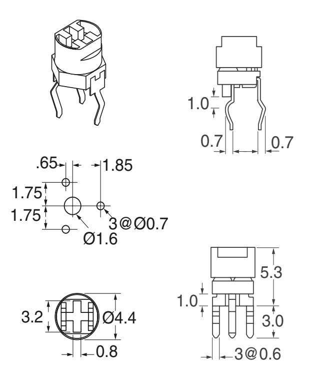

Fig. 2 — 4mm, Right Angle

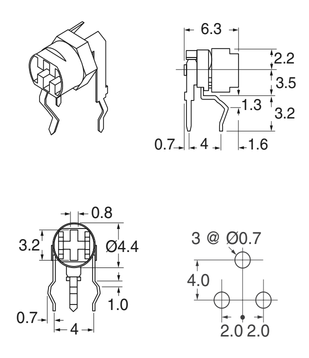

Fig. 3 — 5mm, Vertical

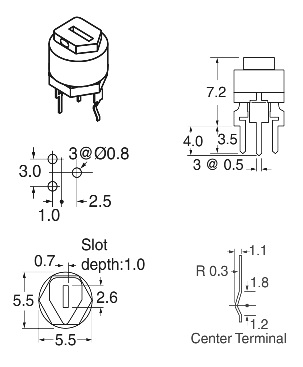

Fig. 4 — 6mm, Vertical

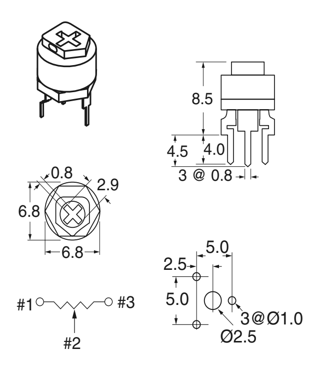

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
EVM-L4G Series — 4mm, Vertical, Top Adjust						
1	2K	L4G23BK-ND	.78	28.80	49.85	EVM-L4GA00B23
	10K	L4G14BK-ND	.78	28.80	49.85	EVM-L4GA00B14
	100K	L4G15BK-ND	.78	28.80	49.85	EVM-L4GA00B15
	200K	L4G25BK-ND	.78	28.80	49.85	EVM-L4GA00B25
	500K	L4G55BK-ND	.78	28.80	49.85	EVM-L4GA00B55
	1M	L4G16BK-ND	.78	28.80	49.85	EVM-L4GA00B16
EVM-L1G Series — 4mm, Right Angle, Side Adjust						
2	100	L1G12BK-ND	.83	30.82	53.34	EVM-L1GA00B12
	200	L1G22BK-ND	.83	30.82	53.34	EVM-L1GA00B22
	500	L1G52BK-ND	.83	30.82	53.34	EVM-L1GA00B52
	1K	L1G13BK-ND	.83	30.82	53.34	EVM-L1GA00B13

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
2	5K	L1G53BK-ND	.83	30.82	53.34	EVM-L1GA00B53
	20K	L1G24BK-ND	.83	30.82	53.34	EVM-L1GA00B24
	100K	L1G15BK-ND	.83	30.82	53.34	EVM-L1GA00B15
	200K	L1G25BK-ND	.83	30.82	53.34	EVM-L1GA00B25
	500K	L1G55BK-ND	.83	30.82	53.34	EVM-L1GA00B55
	1M	L1G16BK-ND	.83	30.82	53.34	EVM-L1GA00B16
EVM-5AG Series — 5mm, Vertical, Top Adjust						
3	100K	5AG15BK-ND	.78	27.14	47.10	EVM-5AGA00B15
	200K	5AG25BK-ND	.78	27.14	47.10	EVM-5AGA00B25
EVM-4LG Series — 6mm, Vertical, Top Adjust						
4	500K	4LG55BK-ND	.64	22.46	38.99	EVM-4LGA00B55

8mm Trimmer Potentiometers EVN-Series

K4A Series

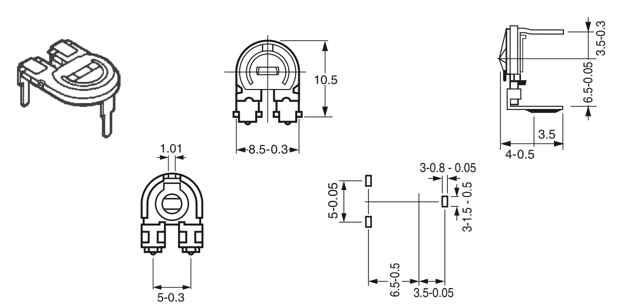

K0A Series

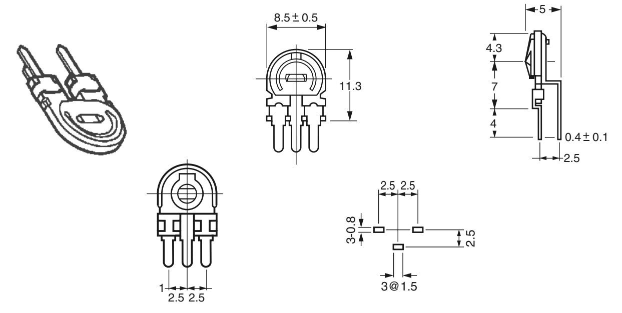

Specifications:

• Resistance Range: 300 to 2MΩ • Taper: Linear • Tolerance: ±30% • Working Voltage: 200V maximum • Power Rating: 0.1 W/50°C • Residual Resistance: Up to 1kΩ: 10Ω maximum Over 1kΩ: 5% of total resistance • Rotation Angle: 260° ± 20° • Rotation Torque: 0.4 to 4.2 in-oz. • Stop Strength: 1 inch/pound • Operating Temperature: –25°C ~ 75°C

Res. (Ω)	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Pricing 1	50	100	250	500	1,000	Panasonic Part No. Laydown Version	Panasonic Part No. Standup Version
300	—	K0A32-ND	.51	13.31	21.97	47.70	77.66	123.14	—	EVN-64AA00B32
2K	K4A23-ND	K0A23-ND	.51	13.31	21.97	47.70	77.66	123.14	EVN-65AA00B23	EVN-64AA00B23

Panasonic® 6mm Carbon Trimmer Potentiometers

SPECIFICATIONS:

Mechanical: • **Rotation Angle:** 210° ±20° • **Rotation Torque:** 20 ~ 250g-cm • **Stopper Strength:** 750gfcm • **Soldering Heat:** 240°C ~ 280°C, 5 seconds maximum; 280°C ~ 300°C, 3 seconds maximum • **Rotation life:** 100 cycles

Electrical: • Power rating: 0.1W (when under 50°C) • Maximum operating voltage: 50V • Taper: B (Linear) • Resistance: 200Ω ~ 1MΩ • Tolerance: ±30%.

FEATURES:

• Miniature size, lightweight, 6.4 x 6.7mm • Suitable for automatic insertion as square housing • Suitable for automatic adjustment as stable rotation torque • Dust proof and flux proof construction • Adjustable from both top and bottom sides • Snap-in mounting terminal for EVN-D8A/D2A

Applications: • Consumer equipment such as TV, VTR (VCR), stereo, radio.

Panasonic®

Carbon Trimmer Potentiometers

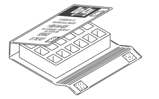

Digi-Key® Assortment Kit

14 Panasonic 6mm Carbon
Trimmer Potentiometers
Panasonic Quality

140 6mm Carbon Trimmer Potentiometers:
Price includes convenient divided notebook style storage case with bin guide for easy storage and quick access.

DXA-KIT-ND **$29.95**

EVN-D2A (Side Adjust)

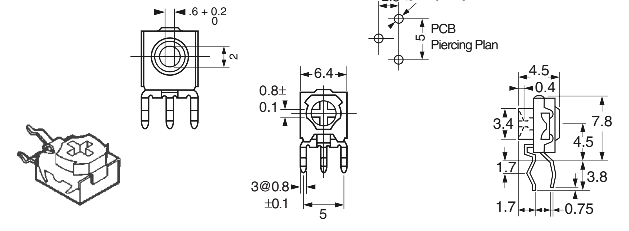

EVN-D8A (Top Adjust)

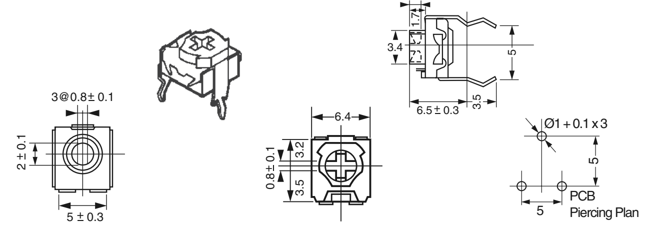

EVN-DCA (Side Adjust)

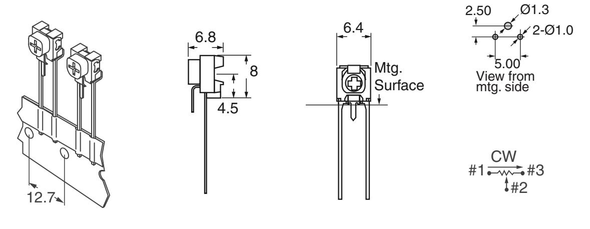

EVN-DJA (Top Adjust)

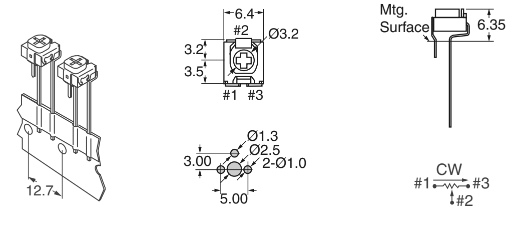

EVN-D2A Side Adjust (Bulk) Series — EVN-D8A Top Adjust (Bulk) Series

Resistance (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Bulk Pricing 1	50	100	250	500	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	D1AA22-ND◆*	D4AA22-ND◆*	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B22	EVN-D8AA03B22
500	D1AA52-ND◆*	D4AA52-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B52	EVN-D8AA03B52
1K	D1AA13-ND◆*	D4AA13-ND◆*	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B13	EVN-D8AA03B13
2K	D1AA23-ND	D4AA23-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B23	EVN-D8AA03B23
5K	D1AA53-ND◆*	D4AA53-ND◆*	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B53	EVN-D8AA03B53
10K	D1AA14-ND◆	D4AA14-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B14	EVN-D8AA03B14
20K	D1AA24-ND◆*	D4AA24-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B24	EVN-D8AA03B24
50K	D1AA54-ND*	D4AA54-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B54	EVN-D8AA03B54
100K	D1AA15-ND◆*	D4AA15-ND◆*	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B15	EVN-D8AA03B15
200K	D1AA25-ND*	D4AA25-ND◆	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B25	EVN-D8AA03B25
500K	D1AA55-ND◆*	D4AA55-ND*	.57	13.37	21.06	44.55	72.90	EVN-D2AA03B55	EVN-D8AA03B55

◆ ***RoHS Compliant*** * Denotes part included in DXA-KIT.

EVN-DCA Side Adjust (Tape) Series — EVN-DJA Top Adjust (Tape) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Cut Tape Pricing 1	50	100	250	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Tape and Box Pricing 1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	DCA22CT-ND	DJA22CT-ND	.90	22.08	34.50	75.90	DCA22TB-ND	DJA22TB-ND	128.80	EVN-DCAA03B22	EVN-DJAA03B22
500	DCA52CT-ND	DJA52CT-ND	.90	22.08	34.50	75.90	DCA52TB-ND	DJA52TB-ND	128.80	EVN-DCAA03B52	EVN-DJAA03B52
1K	DCA13CT-ND◆	DJA13CT-ND◆	.90	22.08	34.50	75.90	DCA13TB-ND◆	DJA13TB-ND◆	128.80	EVN-DCAA03B13	EVN-DJAA03B13
2K	DCA23CT-ND	DJA23CT-ND	.90	22.08	34.50	75.90	DCA23TB-ND	DJA23TB-ND	128.80	EVN-DCAA03B23	EVN-DJAA03B23
5K	DCA53CT-ND◆	DJA53CT-ND◆	.90	22.08	34.50	75.90	DCA53TB-ND◆	DJA53TB-ND◆	128.80	EVN-DCAA03B53	EVN-DJAA03B53
10K	DCA14CT-ND	DJA14CT-ND◆	.90	22.08	34.50	75.90	DCA14TB-ND	DJA14TB-ND◆	128.80	EVN-DCAA03B14	EVN-DJAA03B14
20K	DCA24CT-ND	DJA24CT-ND	.90	22.08	34.50	75.90	DCA24TB-ND	DJA24TB-ND	128.80	EVN-DCAA03B24	EVN-DJAA03B24
50K	DCA54CT-ND	DJA54CT-ND◆	.90	22.08	34.50	75.90	DCA54TB-ND	DJA54TB-ND◆	128.80	EVN-DCAA03B54	EVN-DJAA03B54
100K	DCA15CT-ND	DJA15CT-ND	.90	22.08	34.50	75.90	DCA15TB-ND	DJA15TB-ND	128.80	EVN-DCAA03B15	EVN-DJAA03B15
200K	DCA25CT-ND	DJA25CT-ND	.90	22.08	34.50	75.90	DCA25TB-ND	DJA25TB-ND	128.80	EVN-DCAA03B25	EVN-DJAA03B25
500K	DCA55CT-ND	DJA55CT-ND	.90	22.08	34.50	75.90	DCA55TB-ND	DJA55TB-ND	128.80	EVN-DCAA03B55	EVN-DJAA03B55

◆ ***RoHS Compliant***

Panasonic®

Cermet Series Trimmer Potentiometers 6mm Diameter Cermet Dust-Proof Type

EVM-31GA (Horizontal Both Sides Adjust)

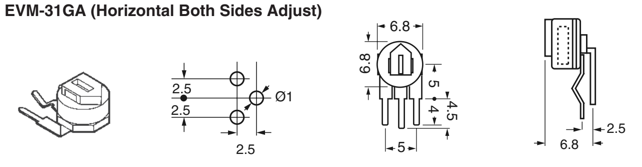

SPECIFICATIONS:

• Resistance Range: 100 to 500K • Tolerance: +25% • Taper: Linear • Residual Resistance: 5% maximum • Wattage Rating: 0.3W maximum (70°C) • Voltage Rating: 100V maximum • TCR: +200PPM/°C • Rotation Torque: 20 to 250g-cm • Stopper Strength: 300g-cm minimum • Rotation Angle: 200° +20° • Operating Temperature: -40°C ~ 101°C

Resistance Ω	Digi-Key Part No.	Pricing 1	50	100	Panasonic Part No.
100	31G12-ND	.63	21.89	38.00	EVM-31GA00B12
500K	31G55-ND	.63	21.89	38.00	EVM-31GA00B55

Panasonic® "ZNR" Transient/Surge Absorbers Type D and E

Features: • Excellent clamping voltage characteristic and fast response time (50nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indurative of gap-type arrestors. • Bilateral and symmetrical V-1 characteristic curve. The ZNR can, therefore, be used both in AC and DC circuits, for protection of either positive or negative transients. Panasonic ZNRs are zinc oxide nonlinear resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-1 characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR thus provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

Ratings: Varistor Voltage: The voltage between two terminals with the specified measuring current CmA DC applied is called Vc. The measurement shall be made as fast as possible to avoid heat affection.

Maximum Allowable Voltage: The recommended maximum sine wave voltage (rms) or the maximum DC voltage that can be applied continuously.

Withstanding Surge Current: The maximum current within the varistor voltage change of 510% with the standard impulse current (8/20µ second) applied one time.

Maximum Clamping Voltage: The maximum voltage between two terminals with the specified standard impulse current (8/20µ second) illustrated.

V Series: ZNR Surge Absorbers Type D, Series V, have been put on the market as a result of the development of a new ceramic material composition, higher quality of parts and materials used in the varistor and an improvement of manufacturing process control. They have a smaller size but a larger surge current and energy ratings so that they can be used in smaller equipment and exhibit their excellent surge protection ability in severe conditions. **Features:** • Improved in "Surge Current Handling Capability (@ 8/20 µs, 2 times)" by 1.6 to 3.0 times over the current conventional type. • Very large "Energy Handling Capability" absorbing transient overvoltages in compact sizes • Varistor voltages 250V-1850V are listed under UL1414, UL1449 and CSA 2221 01, varistor voltages 82-150V are UL1449 only • Wide products range for transient/surge protection on AC 100V to AC 480V nominal system with the maximum peak current ratings of 600A to 6500A (@ 8/20 µs, 2 times) • Operating Temperature Range -40°C ~ 85°C

D-Type
Series V

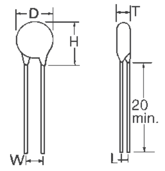

E-Type

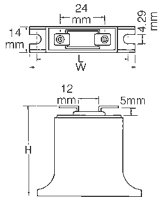

Line to Line Protection
DC AC Single Phase

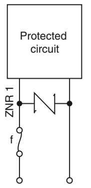

Maximum Clamping Voltage

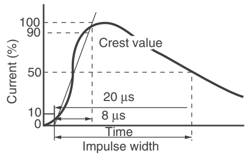

AC Three Phase

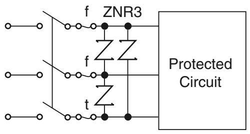

Ser-ies	Type	Max. Allowance Voltage (V)		Varistor Volt. ±10%	Max. Clamp Volt. @ Test Current (8/20µsec.)		Surge Cur-rent	Dimensions (mm)					Digi-Key	Pricing				Panasonic
		AC	DC	(V)	Vc(V)	Ip(A)	(A)	D Max.	T Max.	W ±1	H Max.	L ±1	Part No.	1	10	100	1,000	Part No.
5	D Ser.V	11	14	18	40	1	125	7.0	4.5	5.0	10.0	1.5	P7282-ND◆	.44	2.50	16.26	124.49	ERZ-V05D180
		14	18	22	48	1	125	7.0	4.5	5.0	10.0	1.5	P7283-ND◆	.44	2.50	16.26	124.49	ERZ-V05D220
		17	22	27	60	1	125	7.0	4.5	5.0	10.0	1.5	P7284-ND◆	.44	2.50	16.26	124.49	ERZ-V05D270
		20	26	33	73	1	125	7.0	4.5	5.0	10.0	1.5	P7285-ND◆	.44	2.50	16.26	124.49	ERZ-V05D330
		25	31	39	86	1	125	7.0	4.5	5.0	10.0	1.5	P7286-ND◆	.44	2.50	16.26	124.49	ERZ-V05D390
		30	38	47	104	1	125	7.0	4.5	5.0	10.0	1.5	P7287-ND◆	.44	2.50	16.26	124.49	ERZ-V05D470
		35	45	56	123	1	125	7.0	4.5	5.0	10.0	1.5	P7288-ND◆	.44	2.50	16.26	124.49	ERZ-V05D560
		40	56	68	150	1	125	7.0	4.5	5.0	10.0	1.5	P7289-ND◆	.44	2.50	16.26	124.49	ERZ-V05D680
		50	65	82	145	5	600	7.0	4.1	5.0	10.0	1.4	P7180-ND◆	.44	2.50	16.26	124.49	ERZ-V05D820
		60	85	100	175	5	600	7.0	4.3	5.0	10.0	1.6	P7240-ND◆	.44	2.50	16.26	124.49	ERZ-V05D101
		75	100	120	210	5	600	7.0	4.5	5.0	10.0	1.8	P7241-ND◆	.44	2.50	16.26	124.49	ERZ-V05D121
		95	125	150	260	5	600	7.0	4.8	5.0	10.0	2.1	P7242-ND	.44	2.50	16.26	124.49	ERZ-V05D151
		130	170	200	355	5	600	7.0	4.4	5.0	10.0	1.7	P7181-ND◆	.44	2.50	16.26	124.49	ERZ-V05D201
		140	180	220	380	5	600	7.0	4.5	5.0	10.0	1.8	P7182-ND◆	.44	2.50	16.26	124.49	ERZ-V05D221
		150	200	240	415	5	600	7.0	4.6	5.0	10.0	1.9	P7183-ND◆	.44	2.50	16.26	124.49	ERZ-V05D241
		175	225	270	475	5	600	7.0	4.8	5.0	10.0	2.1	P7184-ND◆	.44	2.50	16.26	124.49	ERZ-V05D271
		210	270	330	570	5	600	7.0	5.1	5.0	10.0	2.4	P7185-ND◆	.44	2.50	16.26	124.49	ERZ-V05D331
		230	300	360	620	5	600	7.0	5.3	5.0	10.0	2.5	P7243-ND◆	.44	2.50	16.26	124.49	ERZ-V05D361
		250	320	390	675	5	600	7.0	5.4	5.0	10.0	2.7	P7244-ND◆	.44	2.50	16.26	124.49	ERZ-V05D391
		275	350	430	745	5	600	7.0	5.6	5.0	10.0	2.9	P7245-ND◆	.44	2.50	16.26	124.49	ERZ-V05D431
		300	385	470	810	5	600	7.0	5.8	5.0	10.0	3.1	P7186-ND◆	.44	2.50	16.26	124.49	ERZ-V05D471
7	D Ser.V	11	14	18	36	2.5	250	8.5	4.5	5.0	11.5	1.3	P7290-ND◆	.49	2.78	18.07	138.32	ERZ-V07D180
		14	18	22	43	2.5	250	8.5	4.6	5.0	11.5	1.4	P7291-ND◆	.49	2.78	18.07	138.32	ERZ-V07D220
		17	22	27	53	2.5	250	8.5	4.7	5.0	11.5	1.5	P7292-ND◆	.49	2.78	18.07	138.32	ERZ-V07D270
		20	26	33	65	2.5	250	8.5	4.9	5.0	11.5	1.7	P7293-ND◆	.49	2.78	18.07	138.32	ERZ-V07D330
		25	31	39	77	2.5	250	8.5	4.8	5.0	11.5	1.6	P7294-ND◆	.49	2.78	18.07	138.32	ERZ-V07D390
		30	38	47	93	2.5	250	8.5	4.9	5.0	11.5	1.7	P7295-ND◆	.49	2.78	18.07	138.32	ERZ-V07D470
		35	45	56	110	2.5	250	8.5	5.0	5.0	11.5	1.8	P7296-ND◆	.49	2.78	18.07	138.32	ERZ-V07D560
		40	56	68	135	2.5	250	8.5	5.2	5.0	11.5	2.0	P7297-ND◆	.49	2.78	18.07	138.32	ERZ-V07D680
		50	65	82	135	10	1250	8.5	4.1	5.0	11.5	1.4	P7187-ND◆	.49	2.78	18.07	138.32	ERZ-V07D820
		60	85	100	165	10	1250	8.5	4.3	5.0	11.5	1.6	P7246-ND◆	.49	2.78	18.07	138.32	ERZ-V07D101
		75	100	120	200	10	1250	8.5	4.5	5.0	11.5	1.8	P7247-ND◆	.49	2.78	18.07	138.32	ERZ-V07D121
		95	125	150	250	10	1250	8.5	4.8	5.0	11.5	2.1	P7248-ND◆	.49	2.78	18.07	138.32	ERZ-V07D151
		130	170	200	340	10	1250	8.5	4.4	5.0	11.5	1.7	P7188-ND◆	.49	2.78	18.07	138.32	ERZ-V07D201
		140	180	220	360	10	1250	8.5	4.5	5.0	11.5	1.8	P7189-ND◆	.49	2.78	18.07	138.32	ERZ-V07D221
		150	200	240	395	10	1250	8.5	4.6	5.0	11.5	1.9	P7190-ND◆	.49	2.78	18.07	138.32	ERZ-V07D241
		175	225	270	455	10	1250	8.5	4.8	5.0	11.5	2.1	P7200-ND◆	.49	2.78	18.07	138.32	ERZ-V07D271
		210	270	330	545	10	1250	8.5	5.1	5.0	11.5	2.4	P7201-ND	.49	2.78	18.07	138.32	ERZ-V07D331
		230	300	360	595	10	1250	8.5	5.3	5.0	11.5	2.5	P7249-ND◆	.49	2.78	18.07	138.32	ERZ-V07D361
		250	320	390	650	10	1250	8.5	5.4	5.0	11.5	2.7	P7250-ND◆	.49	2.78	18.07	138.32	ERZ-V07D391
		275	350	430	710	10	1250	8.5	5.8	5.0	11.5	2.9	P7251-ND◆	.49	2.78	18.07	138.32	ERZ-V07D431
		300	385	470	775	10	1250	8.5	5.8	5.0	11.5	3.1	P7202-ND◆	.49	2.78	18.07	138.32	ERZ-V07D471
		320	410	510	845	10	1250	8.5	6.0	5.0	11.5	3.3	P7203-ND◆	.49	2.78	18.07	138.32	ERZ-V07D511
10	D Ser.V	11	14	18	36	5	500	11.5	4.6	7.5	14.5	1.3	P7298-ND◆	.63	3.66	25.05	199.23	ERZ-V10D180
		14	18	22	43	5	500	11.5	4.7	7.5	14.5	1.4	P7299-ND◆	.63	3.66	25.05	199.23	ERZ-V10D220
		17	22	27	53	5	500	11.5	4.8	7.5	14.5	1.5	P7300-ND◆	.63	3.66	25.05	199.23	ERZ-V10D270
		20	26	33	65	5	500	11.5	5.0	7.5	14.5	1.7	P7301-ND◆	.63	3.66	25.05	199.23	ERZ-V10D330
		25	31	39	77	5	500	11.5	4.9	7.5	14.5	1.6	P7302-ND◆	.63	3.66	25.05	199.23	ERZ-V10D390
		30	38	47	93	5	500	11.5	5.0	7.5	14.5	1.7	P7303-ND◆	.63	3.66	25.05	199.23	ERZ-V10D470
		35	45	56	110	5	500	11.5	5.1	7.5	14.5	1.8	P7304-ND◆	.63	3.66	25.05	199.23	ERZ-V10D560
		40	56	68	135	5	500	11.5	5.3	7.5	14.5	2.0	P7305-ND◆	.63	3.66	25.05	199.23	ERZ-V10D680
		50	65	82	135	25	2500	11.5	4.5	7.5	14.5	1.6	P7204-ND◆	.63	3.66	25.05	199.23	ERZ-V10D820
		60	85	100	165	25	2500	11.5	4.7	7.5	14.5	1.8	P7252-ND◆	.63	3.66	25.05	199.23	ERZ-V10D101
		75	100	120	200	25	2500	11.5	4.9	7.5	14.5	2.0	P7253-ND◆	.63	3.66	25.05	199.23	ERZ-V10D121
		95	125	150	250	25	2500	11.5	5.2	7.5	14.5	2.3	P7254-ND◆	.54	3.17	21.66	172.28	ERZ-V10D151
		130	170	200	340	25	2500	11.5	4.8	7.5	14.5	1.9	P7205-ND◆	.54	3.17	21.66	172.28	ERZ-V10D201
		140	180	220	360	25	2500	11.5	4.9	7.5	14.5	2.0	P7206-ND◆	.54	3.17	21.66	172.28	ERZ-V10D221
		150	200	240	395	25	2500	11.5	5.0	7.5	14.5	2.1	P7207-ND◆	.54	3.17	21.66	172.28	ERZ-V10D241
		175	225	270	455	25	2500	11.5	5.2	7.5	14.5	2.3	P7208-ND◆	.54	3.17	21.66	172.28	ERZ-V10D271
		210	270	330	545	25	2500	11.5	5.5	7.5	14.5	2.6	P7209-ND◆	.54	3.17	21.66	172.28	ERZ-V10D331
		230	300	360	595	25	2500	11.5	5.7	7.5	14.5	2.8	P7255-ND◆	.54	3.17	21.66	172.28	ERZ-V10D361
		250	320	390	650	25	2500	11.5	5.8	7.5	14.5	2.9	P7256-ND◆	.54	3.17	21.66	172.28	ERZ-V10D391
		275	350	430	710	25	2500	11.5	6.0	7.5	14.5	3.1	P7257-ND◆	.54	3.17	21.66	172.28	ERZ-V10D431

◆ *RoHS Compliant*

(Continued)

Series	Type	Max. Allowance Voltage (V)		Varistor Volt. ±10%	Max. Clamp Volt. @ Test Current (8/20µsec.)		Surge Current	Dimensions (mm)					Digi-Key	Pricing				Panasonic
		AC	DC	(V)	Vc(V)	Ip(A)	(A)	D Max.	T Max.	W ±1	H Max.	L ±1	Part No.	1	10	100	1,000	Part No.
10	D Ser.V	300	385	470	775	25	2500	11.5	6.2	7.5	14.5	3.3	P7210-ND◆	.54	3.17	21.66	172.28	ERZ-V10D471
		320	410	510	845	25	2500	11.5	6.4	7.5	14.5	3.5	P7211-ND◆	.74	4.32	29.56	235.15	ERZ-V10D511
		385	505	620	1025	25	2500	12.5	7.1	7.5	15.5	4.2	P7258-ND◆	.74	4.32	29.56	235.15	ERZ-V10D621
		420	560	680	1120	25	2500	12.5	7.4	7.5	15.5	4.5	P7259-ND◆	.74	4.32	29.56	235.15	ERZ-V10D681
		460	615	750	1240	25	2500	12.5	7.8	7.5	15.5	4.9	P7260-ND◆	.74	4.32	29.56	235.15	ERZ-V10D751
		510	670	820	1355	25	2500	12.5	8.1	7.5	15.5	5.2	P7212-ND◆	.74	4.32	29.56	235.15	ERZ-V10D821
		550	745	910	1500	25	2500	12.5	8.6	7.5	15.5	5.7	P7213-ND◆	.89	5.22	35.72	284.14	ERZ-V10D911
		625	825	1000	1650	25	2500	12.5	9.1	7.5	15.5	6.2	P7261-ND◆	.89	5.22	35.72	284.14	ERZ-V10D102
		680	895	1100	1815	25	2500	12.5	9.7	7.5	15.5	6.8	P7214-ND◆	.89	5.22	35.72	284.14	ERZ-V10D112
		1000	1465	1800	2970	25	2500	13.5	14.4	11.0	16.5	10.5	P7215-ND◆	1.55	9.60	70.19	581.40	ERZ-V10D182
14	D Ser.V	11	14	18	36	10	1000	15.5	4.6	7.5	18.5	1.3	P7306-ND◆	.72	4.23	28.95	230.25	ERZ-V14D180
		14	18	22	43	10	1000	15.5	4.7	7.5	18.5	1.4	P7307-ND◆	.72	4.23	28.95	230.25	ERZ-V14D220
		17	22	27	53	10	1000	15.5	4.8	7.5	18.5	1.5	P7308-ND◆	.72	4.23	28.95	230.25	ERZ-V14D270
		20	26	33	65	10	1000	15.5	5.0	7.5	18.5	1.7	P7309-ND◆	.72	4.23	28.95	230.25	ERZ-V14D330
		25	31	39	77	10	1000	15.5	4.9	7.5	18.5	1.6	P7310-ND◆	.72	4.23	28.95	230.25	ERZ-V14D390
		30	38	47	93	10	1000	15.5	5.0	7.5	18.5	1.7	P7311-ND◆	.72	4.23	28.95	230.25	ERZ-V14D470
		35	45	56	110	10	1000	15.5	5.1	7.5	18.5	1.8	P7312-ND	.72	4.23	28.95	230.25	ERZ-V14D560
		40	56	68	135	10	1000	15.5	5.3	7.5	18.5	2.0	P7313-ND◆	.72	4.23	28.95	230.25	ERZ-V14D680
		50	65	82	135	50	4500	15.5	4.5	7.5	18.5	1.6	P7216-ND◆	.72	4.23	28.95	230.25	ERZ-V14D820
		60	85	100	165	50	4500	15.5	4.7	7.5	18.5	1.8	P7262-ND◆	.72	4.23	28.95	230.25	ERZ-V14D101
		75	100	120	200	50	4500	15.5	4.9	7.5	18.5	2.0	P7263-ND	.72	4.23	28.95	230.25	ERZ-V14D121
		95	125	150	250	50	4500	15.5	5.2	7.5	18.5	2.3	P7264-ND◆	.72	4.23	28.95	230.25	ERZ-V14D151
		130	170	200	340	50	4500	15.5	4.8	7.5	18.5	1.9	P7217-ND◆	.72	4.23	28.95	230.25	ERZ-V14D201
		140	180	220	360	50	4500	15.5	4.9	7.5	18.5	2.0	P7218-ND◆	.72	4.23	28.95	230.25	ERZ-V14D221
		150	200	240	395	50	4500	15.5	5.0	7.5	18.5	2.1	P7219-ND◆	.72	4.23	28.95	230.25	ERZ-V14D241
		175	225	270	455	50	4500	15.5	5.2	7.5	18.5	2.3	P7220-ND◆	.72	4.23	28.95	230.25	ERZ-V14D271
		210	270	330	545	50	4500	15.5	5.5	7.5	18.5	2.6	P7221-ND◆	.88	5.12	35.00	278.43	ERZ-V14D331
		230	300	360	595	50	4500	15.5	5.7	7.5	18.5	2.8	P7265-ND◆	.88	5.12	35.00	278.43	ERZ-V14D361
		250	320	390	650	50	4500	15.5	5.8	7.8	18.5	2.9	P7266-ND◆	.88	5.12	35.00	278.43	ERZ-V14D391
		275	350	430	710	50	4500	15.5	6.0	7.5	18.5	3.1	P7267-ND◆	.88	5.12	35.00	278.43	ERZ-V14D431
		300	385	470	775	50	4500	15.5	6.2	7.5	18.5	3.3	P7222-ND◆	.88	5.12	35.00	278.43	ERZ-V14D471
		320	410	510	845	50	4500	15.5	6.4	7.5	18.5	3.5	P7223-ND◆	.88	5.12	35.00	278.43	ERZ-V14D511
		385	505	620	1025	50	4500	16.0	7.1	7.5	19.0	4.2	P7268-ND◆	1.07	6.59	48.21	399.33	ERZ-V14D621
		420	560	680	1120	50	4500	16.0	7.4	7.5	19.0	4.5	P7269-ND◆	1.07	6.59	48.21	399.33	ERZ-V14D681
		460	615	750	1240	50	4500	16.0	7.8	7.5	19.0	4.9	P7270-ND◆	1.10	6.78	49.59	410.81	ERZ-V14D751
		510	670	820	1355	50	4500	16.0	8.1	7.5	19.0	5.2	P7224-ND◆	1.10	6.78	49.59	410.81	ERZ-V14D821
		550	745	910	1500	50	4500	16.0	8.6	7.5	19.0	5.7	P7225-ND◆	1.49	9.22	67.42	558.45	ERZ-V14D911
		625	825	1000	1650	50	4500	16.0	9.1	7.5	19.0	6.2	P7271-ND◆	1.49	9.22	67.42	558.45	ERZ-V14D102
		680	895	1100	1815	50	4500	16.0	9.7	7.5	19.0	6.8	P7226-ND◆	1.49	9.22	67.42	558.45	ERZ-V14D112
		1000	1465	1800	2970	50	4500	17.0	14.4	15.0	20.5	10.5	P7227-ND◆	1.98	12.83	98.21	831.55	ERZ-V14D182
20	D Ser.V	11	14	18	36	20	2000	21.5	5.1	10.0	24.5	1.5	P7314-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D180
		14	18	22	43	20	2000	21.5	5.2	10.0	24.5	1.6	P7315-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D220
		17	22	27	53	20	2000	21.5	5.3	10.0	24.5	1.7	P7316-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D270
		20	26	33	65	20	2000	21.5	5.5	10.0	24.5	1.9	P7317-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D330
		25	31	39	77	20	2000	21.5	5.5	10.0	24.5	1.9	P7318-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D390
		30	38	47	93	20	2000	21.5	5.6	10.0	24.5	2.0	P7319-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D470
		35	45	56	110	20	2000	21.5	5.7	10.0	24.5	2.1	P7320-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D560
		40	56	68	135	20	2000	21.5	5.8	10.0	24.5	2.2	P7321-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D680
		50	65	82	135	100	6500	21.5	4.9	10.0	24.5	1.8	P7228-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D820
		60	85	100	165	100	6500	21.5	5.1	10.0	24.5	2.0	P7272-ND	1.11	6.47	44.24	351.91	ERZ-V20D101
		75	100	120	200	100	6500	21.5	5.3	10.0	24.5	2.2	P7273-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D121
		95	125	150	250	100	6500	21.5	5.6	10.0	24.5	2.5	P7274-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D151
		130	170	200	340	100	6500	21.5	5.2	7.5	24.5	2.1	P7322-ND◆	1.33	8.21	60.03	497.25	ERZ-V20R201
		130	170	200	340	100	6500	21.5	5.2	10.0	24.5	2.1	P7229-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D201
		140	180	220	360	100	6500	21.5	5.3	7.5	24.5	2.2	P7323-ND	1.25	7.32	50.09	398.45	ERZ-V20R221
		140	180	220	360	100	6500	21.5	5.3	10.0	24.5	2.2	P7230-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D221
		150	200	240	395	100	6500	21.5	5.4	7.5	24.5	2.3	P7324-ND◆	1.25	7.29	49.89	396.82	ERZ-V20R241
		150	200	240	395	100	6500	21.5	5.4	10.0	24.5	2.3	P7231-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D241
		175	225	270	455	100	6500	21.5	5.6	7.5	24.5	2.5	P7325-ND◆	1.25	7.29	49.89	396.82	ERZ-V20R271
		175	225	270	455	100	6500	21.5	5.6	10.0	24.5	2.5	P7232-ND◆	1.11	6.47	44.24	351.91	ERZ-V20D271
		210	270	330	545	100	6500	21.5	5.9	7.5	24.5	2.8	P7326-ND◆	1.47	9.06	66.31	549.27	ERZ-V20R331
		210	270	330	545	100	6500	21.5	5.9	10.0	24.5	2.8	P7233-ND◆	1.30	8.05	58.92	488.07	ERZ-V20D331
		230	300	360	595	100	6500	21.5	6.1	7.5	24.5	3.0	P7327-ND◆	1.47	9.06	66.31	549.27	ERZ-V20R361
		230	300	360	595	100	6500	21.5	6.1	10.0	24.5	3.0	P7275-ND	1.30	8.05	58.92	488.07	ERZ-V20D361
		250	320	390	650	100	6500	21.5	6.2	7.5	24.5	3.1	P7328-ND	1.47	9.06	66.31	549.27	ERZ-V20R391
		250	320	390	650	100	6500	21.5	6.2	10.0	24.5	3.1	P7276-ND◆	1.30	8.05	58.92	488.07	ERZ-V20D391
		275	350	430	710	100	6500	21.5	6.4	7.5	24.5	3.3	P7329-ND◆	1.47	9.06	66.31	549.27	ERZ-V20R431
		275	350	430	710	100	6500	21.5	6.4	10.0	24.5	3.3	P7277-ND◆	1.30	8.05	58.92	488.07	ERZ-V20D431
		300	385	470	775	100	6500	21.5	6.6	7.5	24.5	3.5	P7330-ND	1.47	9.06	66.31	549.27	ERZ-V20R471
		300	385	470	775	100	6500	21.5	6.6	10.0	24.5	3.5	P7234-ND◆	1.30	8.05	58.92	488.07	ERZ-V20D471
		320	410	510	845	100	6500	21.5	6.8	7.5	24.5	3.7	P7331-ND◆	1.47	9.06	66.31	549.27	ERZ-V20R511
		320	410	510	845	100	6500	21.5	6.8	10.0	24.5	3.7	P7235-ND◆	1.30	8.05	58.92	488.07	ERZ-V20D511
		385	505	620	1025	100	6500	22.5	7.5	10.0	25.5	4.4	P7278-ND◆	1.82	11.85	90.69	767.87	ERZ-V20D621
		420	560	680	1120	100	6500	22.5	7.8	10.0	25.5	4.7	P7279-ND◆	1.82	11.85	90.69	767.87	ERZ-V20D681
		460	615	750	1240	100	6500	22.5	8.2	10.0	25.5	5.1	P7280-ND◆	1.82	11.85	90.69	767.87	ERZ-V20D751
		510	670	820	1355	100	6500	22.5	8.5	10.0	25.5	5.4	P7236-ND	1.82	11.85	90.69	767.87	ERZ-V20D821
		550	745	910	1500	100	6500	22.5	9.0	10.0	25.5	5.9	P7237-ND◆	2.41	15.65	119.82	1014.55	ERZ-V20D911
		625	825	1000	1650	100	6500	22.5	9.5	10.0	25.5	6.4	P7281-ND◆	2.41	15.65	119.82	1014.55	ERZ-V20D102
		680	895	1100	1815	100	6500	22.5	10.1	10.0	25.5	7.0	P7238-ND	2.41	15.65	119.82	1014.55	ERZ-V20D112
		1000	1465	1800	2970	100	6500	23.5	14.8	15.0	28.0	10.7	P7239-ND	3.23	22.11	175.87	1515.34	ERZ-V20D182
7	D	140	180	220	360	10	1200	9.0	5.3	5.0	12.0	2.1	P7066-ND	.57	3.32	22.69	180.45	ERZ-C07DK221U
20	D	60	85	100	165	100	6500	23.0	5.6	10.0	27.0	2.0	P7049-ND	1.12	6.93	50.71	420.06	ERZ-C20DK101
		385	505	620	1025	100	6500	24.0	7.6	10.0	28.0	4.1	P7102-ND	2.24	14.52	111.11	967.68	ERZ-C20DK621U
20	E	130	170	200	340	100	8000	—	—	48.0	42.0	39.0	P7126-ND◆	13.28	101.67	860.83	7602.84	ERZ-C20EK201
		150	200	240	395	100	8000	—	—	48.0	42.0	39.0	P7127-ND	13.28	101.67	860.83	7602.84	ERZ-C20EK241
		250	320	390	650	100	8000	—	—	48.0	42.0	39.0	P7128-ND	15.81	121.03	1024.80	9051.00	ERZ-C20EK391
32	E	130	170	200	340	200	25000	—	—	60.0	55.0	51.0	P7132-ND◆	26.71	212.45	1830.51	16262.50	ERZ-C32EK201
		150	200	240	395	200	25000	—	—	60.0	55.0	51.0	P7133-ND◆	26.71	212.45	1830.51	16262.50	ERZ-C32EK241
		250	320	390	650	200	25000	—	—	60.0	55.0	51.0	P7134-ND◆	27.78	220.94	1903.67	16912.50	ERZ-C32EK391
		550	1500	910	1500	200	25000	—	—	60.0	55.0	51.0	P7135-ND◆	36.77	292.47	2519.94	22387.50	ERZ-C32EK911

◆ ***RoHS Compliant***

Panasonic®

Multilayer Varistor — For DC Voltage Lines

Strontium Titanate (0603 and 0805 Sizes) Surface Mount

Size	Dimensions - mm L	W	T	L2
0603	1.60	0.80	0.80	0.30
0805	2.00	1.25	0.80	0.50

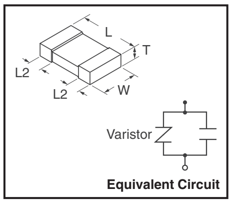

Equivalent Circuit

For EMI noise suppression and transient surge protection. **Features:** • Multilayer monolithic construction of SrTiO3 ceramics • Low varistor voltage with high parallel capacitance • Fast response to high speed transient over voltage for ESD protection (IEC1000-4-2) • dV/dt reduction resulting from the large capacitance • Large withstanding surge and energy capabilities • Operating Temperature Range: -40°C ~ 85°C

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 0.1mA (V)	Typical Capacitance @ 1kHz (pF)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0603	6	12	8200	30	P822VJCT-ND	1.30	8.02	58.70	P822VJTR-ND	4,000	423.00/M	EZJ-S1VB822
	18	30	3900	30	P392VJCT-ND	1.30	8.02	58.70	P392VJTR-ND	4,000	423.00/M	EZJ-S1VC392
	30	50	1800	30	P182VJCT-ND	1.30	8.02	58.70	P182VJTR-ND	4,000	423.00/M	EZJ-S1VD182
0805	6	12	22000	30	P223ZJCT-ND	.82	4.77	32.61	P223ZJTR-ND	5,000	211.00/M	EZJ-S2VB223
	18	30	8200	30	P822ZJCT-ND	.82	4.77	32.61	P822ZJTR-ND	2,000	236.00/M	EZJ-S2YC822
	30	50	4700	30	P472ZJCT-ND	.82	4.77	32.61	P472ZJTR-ND	2,000	236.00/M	EZJ-S2YD472

Multilayer Varistor — Low Capacitance Type for DC Voltage Lines and Low Speed Signal Lines (0201, 0402 and 0603 Sizes) Surface Mount

Features: • Multilayer monolithic construction for use in DC voltage or low speed signal line protection circuits • Operating Temperature Range: -40°C ~ 85°C **Applications:** • Mobile Phone • AV equipment • Game console • USB1.1

Size	Dimensions - mm L	W	T	L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.20
0603	1.60	0.80	0.80	0.30

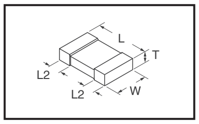

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum Capacitance @ 1MHz (pF)	Maximum Peak Current @ 8/20µS, 2 times (A)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0201	6.7	12	47	1	8	P12803CT-ND	.28	1.53	9.44	P12803TR-ND	15,000	52.00/M	EZJ-ZZV120EA
0402	5.5	8	330	20	—	P13574CT-ND	.44	2.47	16.05	P13574TR-ND	10,000	95.00/M	EZJ-Z0V080KA
	6.7	12	220	10	8	P11403CT-ND	.32	1.63	9.54	P11403TR-ND	10,000	47.00/M	EZJ-Z0V120JA
	11	18	150	10	8	P13694CT-ND	.32	1.63	9.54	P13694TR-ND	10,000	47.00/M	EZJ-Z0V180HA
	13	22	150	10	8	P13695CT-ND	.32	1.63	9.54	P13695TR-ND	10,000	47.00/M	EZJ-Z0V220HA
	16	27	47	10	8	P11404CT-ND	.32	1.63	9.54	P11404TR-ND	10,000	47.00/M	EZJ-Z0V270EA
	30	42	56	10	8	P13696CT-ND	.32	1.63	9.54	P13696TR-ND	10,000	47.00/M	EZJ-Z0V420WA
	40	65	27	5	—	P13692CT-ND	.35	1.93	11.94	P13692TR-ND	10,000	66.00/M	EZJ-Z0V650DA
0603	6.7	12	330	20	8	P12005CT-ND	.35	1.95	12.03	P12005TR-ND	4,000	75.00/M	EZJ-Z1V120KA
	11	18	220	20	8	P13697CT-ND	.35	1.95	12.03	P13697TR-ND	4,000	75.00/M	EZJ-Z1V180JA
	13	22	220	20	8	P13698CT-ND	.35	1.95	12.03	P13698TR-ND	4,000	75.00/M	EZJ-Z1V220JA
	16	27	47	20	—	P14189CT-ND	.35	1.95	12.03	P14189TR-ND	4,000	75.00/M	EZJ-Z1V270EA
	16	27	100	20	8	P10862CT-ND	.35	1.95	12.03	P10862TR-ND	4,000	75.00/M	EZJ-Z1V270GA
	16	27	20	3	—	P14190CT-ND	.35	1.95	12.03	P14190TR-ND	4,000	75.00/M	EZJ-Z1V270RA
	26	33	100	20	8	P10863CT-ND	.35	1.95	12.03	P10863TR-ND	4,000	75.00/M	EZJ-Z1V330GA
	30	42	68	15	8	P13699CT-ND	.35	1.95	12.03	P13699TR-ND	4,000	75.00/M	EZJ-Z1V420FA
	40	65	27	5	8	P14254CT-ND ***NEW!***	.39	2.16	13.36	P14254TR-ND ***NEW!***	4,000	83.00/M	EZJ-Z1V650DA

Multilayer Varistor — Ultra-Low Capacitance Type for High Speed Signal Lines Zinc Oxide Type (0201, 0402 and 0603 Sizes) Surface Mount

Features: • Multilayer monolithic construction for use in high speed signal line protection circuits • Ultra low capacitance - less than 3pF maximum • Operating Temperature Range: -40°C ~ 85°C **Applications:** • Mobile Phone • AV equipment • Game console • USB2.0 • IEEE1394 • HDMI • LAN1000BASE

Size	Dimensions - mm L	T	W	L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.20
0603	1.60	0.80	0.80	0.30

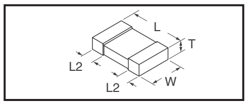

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum Capacitance @ 1MHz (pF)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0201	5	80	3	8	P12801CT-ND	.28	1.53	9.44	P12801TR-ND◆	15,000	52.00/M	EZJ-ZZV800AA
0402	3	27	3	8	P12800CT-ND◆	.37	2.02	12.50	P12800TR-ND◆	10,000	69.00/M	EZJ-Z0V270AA
	5	50	3	8	P14188CT-ND◆	.30	1.62	10.03	P14188TR-ND◆	10,000	55.00/M	EZJ-Z0V500AA
	5	80	0.5	8	P12987CT-ND◆	.42	2.35	15.28	P12987TR-ND◆	10,000	90.00/M	EZJ-Z0V80005
	5	80	0.5	8	P14187CT-ND◆	.35	1.95	12.03	P14187TR-ND◆	10,000	66.00/M	EZJ-Z0V80015D
	6	39	1	4	P13575CT-ND◆	.57	3.24	21.02	P13575TR-ND◆	10,000	124.00/M	EZJ-Z0V39010
	6	39	1.3	6	P13576CT-ND◆	.57	3.24	21.02	P13576TR-ND◆	10,000	124.00/M	EZJ-Z0V39013
	10	80	1	8	P12802CT-ND◆	.35	1.95	12.03	P12802TR-ND◆	10,000	66.00/M	EZJ-Z0V80010
	18	80	3	8	P11992CT-ND◆	.30	1.62	10.03	P11992TR-ND◆	10,000	55.00/M	EZJ-Z0V800AA
	18	170	3	8	P11402CT-ND	.30	1.62	10.03	P11402TR-ND	10,000	55.00/M	EZJ-Z0V171AA
0603	5	50	3	8	P14192CT-ND◆	.35	1.95	12.03	P14192TR-ND◆	4,000	75.00/M	EZJ-Z1V500AA
	6	39	1	4	P13577CT-ND◆	.65	3.81	26.06	P13577TR-ND◆	4,000	177.00/M	EZJ-Z1V39010
	10	80	1	8	P14191CT-ND◆	.34	1.94	12.57	P14191TR-ND◆	4,000	83.00/M	EZJ-Z1V80010
	18	80	3	8	P14193CT-ND◆	.35	1.95	12.03	P14193TR-ND◆	4,000	75.00/M	EZJ-Z1V800AA
	18	170	3	8	P12006CT-ND◆	.35	1.95	12.03	P12006TR-ND◆	4,000	75.00/M	EZJ-Z1V171AA

◆ ***RoHS Compliant***

Multilayer Varistor — 2 Array Chip Type for High Speed Signal Lines

Features: • Industry's smallest capacitance suitable for high-speed multiple signal lines • 2-chip type with the noise filter function available (suitable for the audio line of mobile phones)

Dimensions in mm

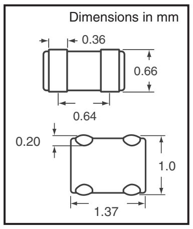

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum ESD IEC61000-4-2 (kV)	Maximum Peak Current @ 8/20µs, 2 times (A)	Maximum Capacitance @ 1MHz (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Panasonic Part No.
0504	6.7	12	8	10	220	P11989CT-ND	.65	3.81	26.08	P11989TR-ND	177.00/M	EZJ-ZSV120JA
	16	27	—	5	22	P11987CT-ND	1.84	11.34	82.95	P11987TR-ND	598.00/M	EZJ-ZSV270CAK
	16	27	8	5	27	P11988CT-ND	.65	3.81	26.08	P11988TR-ND	177.00/M	EZJ-ZSV270DAK
	16	27	8	10	47	P11990CT-ND	.65	3.81	26.08	P11990TR-ND	177.00/M	EZJ-ZSV270EA
	18	80	8	—	3	P12058CT-ND	.65	3.81	26.08	P12058TR-ND	177.00/M	EZJ-ZSV800AA
	18	170	8	—	3	P11991CT-ND	.65	3.81	26.08	P11991TR-ND	177.00/M	EZJ-ZSV171AA

Multilayer Varistor — For High Speed Signal Lines

Panasonic's newly developed Multi-Layer Chip Varistor EXJ-P0V080 Series reduces ESD suppression voltages at very low threshold voltages. It's clamping effects are reduced by 50% over existing models. It's multilayer construction and enhanced properties have enabled the EZJ-P to be used as a viable alternative to zener diodes and capacitors in high speed signal designs (i.e.: 1 EZJ-P can replace 2 zener diodes and 1 capacitor). This is achieved by providing new ceramic materials with precise crystal particle uniformity and distribution. The EZJ-P series MLCV is available in a 0402 case size with capacitance values of 330 ~ 680pF. It meets IEC61000-4-2 standard and is ideal for USB-2.0, IEEE1354 and HDMI applications.

Dimensions in mm

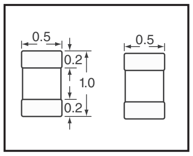

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Clamping Voltage @ 8/20us, 1A (V) max.	Maximum Peak Current @ 8/20µs, 2 times (A)	Maximum Capacitance @ 1MHz (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 10,000	Panasonic Part No.
0402	5.6	8.0	18	20	680	P14128CT-ND	.41	2.32	15.08	P14128TR-ND	89.00/M	EZJ-P0V080MA
	5.6	8.0	19	15	330	P14129CT-ND	.41	2.32	15.08	P14129TR-ND	89.00/M	EZJ-P0V080KA
	5.6	8.0	20	3	100	P14130CT-ND	.41	2.32	15.08	P14130TR-ND	89.00/M	EZJ-P0V080GA

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic ZNR/Surge Absorbers With Tabs – Type C Series 32 and 40

These are heavy duty type ZNR with very unique tab terminals which are used as electrical connecting terminals and also its mounting legs. This ZNR is meant for application in power supplies or transient voltage surge suppressor units where high surge current or high surge energy absorption is required.

Features: • High energy handling capability (210 to 710 joules) • Large withstanding surge current (25 to 30kA) • Compact size • Common terminals for electrical connection and mounting • UL recognized

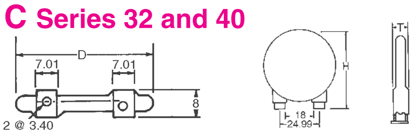

Series	Type	Max. Allow. Volt. (V)		Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20µsec.)		Surge Current (kA)	Dimensions (mm)			Digi-Key Part No.	Pricing						Panasonic Part No.
		AC	DC		Vc(V)	Lp(A)		D max.	T ±.99	H max.		1	10	100	500	1,000	2,500	
32	C	130	170	200	340	200	25	35.99	7.49	46.00	P7158-ND◆	10.93	79.92	662.03	3044.04	5798.18	5594.82/M	ERZ-C32CK201W
		150	200	240	395	200	25	35.99	7.49	46.00	P7159-ND	11.93	87.23	722.62	3322.63	6328.82	6106.84/M	ERZ-C32CK241W
		230	300	360	595	200	25	35.99	8.99	46.00	P7160-ND	11.42	87.44	740.34	3388.19	6538.70	6321.26/M	ERZ-C32CK361W
		250	320	390	650	200	25	35.99	8.99	46.00	P7161-ND◆	11.42	87.44	740.34	3388.19	6538.70	6321.26/M	ERZ-C32CK391W
		275	350	430	710	200	25	35.99	8.99	46.00	P7162-ND	11.67	85.33	706.86	3250.17	6190.80	5973.66/M	ERZ-C32CK431W
		385	505	620	1025	200	25	35.99	9.70	46.00	P7163-ND◆	12.88	98.60	834.92	3821.01	7373.98	7128.76/M	ERZ-C32CK621W
		420	560	680	1120	200	25	35.99	9.70	46.00	P7164-ND	11.30	86.45	732.00	3350.00	6465.00	6250.00/M	ERZ-C32CK681W
		460	615	750	1240	200	25	35.99	11.51	46.00	P7165-ND	12.88	98.60	834.92	3821.01	7373.98	7128.76/M	ERZ-C32CK751W
		485	640	780	1290	200	25	35.99	11.51	46.00	P7166-ND	12.88	98.60	834.92	3821.01	7373.98	7128.76/M	ERZ-C32CK781W
		510	670	820	1355	200	25	35.99	11.51	46.00	P7167-ND◆	14.04	107.46	909.88	4164.05	8036.00	7768.76/M	ERZ-C32CK821W
40	C	130	170	200	340	250	30	43.99	7.49	50.01	P7169-ND	16.00	122.48	1037.10	4746.28	9159.61	8855.00/M	ERZ-C40CK201W
		150	200	240	395	250	30	43.99	7.49	50.01	P7170-ND	16.00	122.48	1037.10	4746.28	9159.61	8855.00/M	ERZ-C40CK241W
		230	300	360	595	250	30	43.99	8.99	50.01	P7171-ND	17.06	130.57	1105.61	5059.84	9764.74	9440.00/M	ERZ-C40CK361W
		250	320	390	650	250	30	43.99	8.99	50.01	P7172-ND	17.06	130.57	1105.61	5059.84	9764.74	9440.00/M	ERZ-C40CK391W
		275	350	430	710	250	30	43.99	8.99	50.01	P7173-ND	17.06	130.57	1105.61	5059.84	9764.74	9440.00/M	ERZ-C40CK431W
		385	505	620	1025	250	30	43.99	9.70	50.01	P7174-ND	15.47	118.44	1002.84	4589.50	8857.05	8562.50/M	ERZ-C40CK621W
		420	560	680	1120	250	30	43.99	9.70	50.01	P7175-ND	15.47	118.44	1002.84	4589.50	8857.05	8562.50/M	ERZ-C40CK681W
		460	615	750	1240	250	30	43.99	11.51	50.01	P7176-ND	20.03	153.29	1297.98	5940.22	11463.74	11082.50/M	ERZ-C40CK751W
		485	640	780	1290	250	30	43.99	11.51	50.01	P7177-ND	20.03	153.29	1297.98	5940.22	11463.74	11082.50/M	ERZ-C40CK781W
		510	670	820	1355	250	30	43.99	11.51	50.01	P7178-ND◆	20.83	159.45	1350.10	6178.74	11924.05	11527.50/M	ERZ-C40CK821W
		550	745	910	1500	250	30	43.99	11.51	50.01	P7179-ND	20.78	165.26	1423.88	6542.58	12650.00	—	ERZ-C40CK911W

◆ ***RoHS Compliant***

Surface Mount ZNR/Surge Absorbers Type VFM, CF, SF and VFT

Features:

- Temperature Char. of Varistor Voltage 0 ~ -0.05%/°C
- Operating Temperature Range: -40°C ~ 85°C
- Storage Temperature Range: -40°C ~ 125°C
- Designed for flow/reflow soldering
- Excellent response against high steep surge voltage
- Compact package with large withstanding surge capability
- Low Clamping Voltage for better surge protection
- SF Type has the ability to withstand 2 or 3 times the surge current of the CF Type
- VFT Type has low height

Applications:

- For suppression of surge in electronic equipment
- Semiconductors
- Telephone or telecommunication system
- DAA modules, modem
- Router, Terminal adapter (Digital modem)
- Power supply

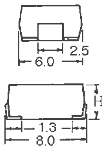

Dimensions in mm

Type	Dim. H
VFM	3.2
CF	3.2
SF	3.2
VFT	2.4

Type	Varistor Voltage ±10% (V)	Max. Allowable Voltage (V)		Max. Clamping Voltage Vxa(V)‡	Rated Power (W)	Energy (2ms) (J)	Maximum† Peak Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing		Panasonic Part No.
		AC	DC						1	10	100		2,000	6,000	
VFM	22	14	18	43	0.02	0.9	125	P7345CT-ND◆	2.01	1.31	1.01	P7345TR-ND◆	770.00/M	705.00/M	ERZ-VF2M220
	27	17	22	53	0.02	1.0	125	P7346CT-ND◆	2.01	1.31	1.01	P7346TR-ND◆	770.00/M	705.00/M	ERZ-VF2M270
	33	20	26	65	0.02	1.2	125	P7347CT-ND◆	2.01	1.31	1.01	P7347TR-ND◆	770.00/M	705.00/M	ERZ-VF2M330
	39	25	31	77	0.02	1.5	125	P7348CT-ND◆	2.01	1.31	1.01	P7348TR-ND◆	770.00/M	705.00/M	ERZ-VF2M390
	47	30	38	93	0.02	1.8	125	P7349CT-ND◆	2.01	1.31	1.01	P7349TR-ND◆	770.00/M	705.00/M	ERZ-VF2M470
	56	35	45	110	0.02	2.2	125	P7350CT-ND◆	2.01	1.31	1.01	P7350TR-ND◆	770.00/M	705.00/M	ERZ-VF2M560
	68	40	56	135	0.02	2.5	125	P7351CT-ND◆	2.01	1.31	1.01	P7351TR-ND◆	770.00/M	705.00/M	ERZ-VF2M680
	82	50	65	135	0.1	2.5	600	P7337CT-ND◆	2.01	1.31	1.01	P7337TR-ND◆	770.00/M	705.00/M	ERZ-VF2M820
	100	60	85	165	0.1	3.0	600	P7338CT-ND	2.01	1.31	1.01	P7338TR-ND	770.00/M	705.00/M	ERZ-VF2M101
	120	75	100	200	0.1	3.5	600	P7339CT-ND	2.01	1.31	1.01	P7339TR-ND	770.00/M	705.00/M	ERZ-VF2M121
	150	95	125	250	0.1	4.5	600	P7340CT-ND	2.01	1.31	1.01	P7340TR-ND	770.00/M	705.00/M	ERZ-VF2M151
	200	130	170	340	0.1	6.0	600	P7341CT-ND	2.01	1.31	1.01	P7341TR-ND	770.00/M	705.00/M	ERZ-VF2M201
	220	140	180	360	0.1	6.5	600	P7342CT-ND	2.01	1.31	1.01	P7342TR-ND	770.00/M	705.00/M	ERZ-VF2M221
	240	150	200	395	0.1	7.5	600	P7343CT-ND◆	2.01	1.31	1.01	P7343TR-ND◆	770.00/M	705.00/M	ERZ-VF2M241
	270	175	225	455	0.1	8.0	600	P7344CT-ND◆	2.01	1.31	1.01	P7344TR-ND◆	770.00/M	705.00/M	ERZ-VF2M271
	330	210	270	545	0.1	8.0	300	P7352CT-ND◆	2.01	1.31	1.01	P7352TR-ND◆	770.00/M	705.00/M	ERZ-VF2M331
	360	230	300	595	0.1	9.0	300	P7353CT-ND◆	2.01	1.31	1.01	P7353TR-ND◆	770.00/M	705.00/M	ERZ-VF2M361
	390	250	320	650	0.1	9.0	300	P7354CT-ND◆	2.01	1.31	1.01	P7354TR-ND◆	770.00/M	705.00/M	ERZ-VF2M391
	430	275	350	710	0.1	10.0	300	P7355CT-ND◆	2.01	1.31	1.01	P7355TR-ND◆	770.00/M	705.00/M	ERZ-VF2M431
	470	300	385	775	0.1	10.0	300	P7356CT-ND◆	2.01	1.31	1.01	P7356TR-ND◆	770.00/M	705.00/M	ERZ-VF2M471
CF	22	14	18	48	0.01	0.4	50	P220ZFCT-ND◆*	1.90	1.24	.95	P220ZFTR-ND◆*	746.24/M	—	ERZ-CF2MK220
	27	17	22	60	0.01	0.5	50	P270ZFCT-ND◆*	1.90	1.24	.95	—	—	—	ERZ-CF2MK270
	39	25	31	86	0.01	0.8	50	P390ZFCT-ND*	1.90	1.24	.95	—	—	—	ERZ-CF2MK390
	47	30	38	104	0.01	1.0	50	P470ZFCT-ND*	1.90	1.24	.95	P470ZFTR-ND*	746.24/M	722.92/M	ERZ-CF2MK470
	56	35	45	123	0.01	1.0	50	P560ZFCT-ND*	1.90	1.24	.95	P560ZFTR-ND*	831.00/M	777.00/M	ERZ-CF2MK560
	68	40	56	150	0.01	1.2	50	P680ZFCT-ND*	1.90	1.24	.95	P680ZFTR-ND*	746.24/M	722.92/M	ERZ-CF2MK680
	82	50	65	145	0.1	1.7	200	P820ZFCT-ND*	1.90	1.24	.95	P820ZFTR-ND*	746.24/M	722.92/M	ERZ-CF2MK820
	100	60	85	175	0.1	2.0	200	P101ZFCT-ND*	1.90	1.24	.95	P101ZFTR-ND*	831.00/M	777.00/M	ERZ-CF2MK101
	120	75	100	210	0.1	2.5	200	P121ZFCT-ND*	1.90	1.24	.95	P121ZFTR-ND*	746.24/M	722.92/M	ERZ-CF2MK121
	150	95	125	200	0.1	3.0	200	P151ZFCT-ND*	1.90	1.24	.95	—	—	—	ERZ-CF2MK151
	200	130	170	355	0.1	4.0	200	P201ZFCT-ND◆*	1.90	1.24	.95	P201ZFTR-ND◆*	746.24/M	722.92/M	ERZ-CF2MK201
	220	140	180	380	0.1	4.5	200	P221ZFCT-ND*	1.90	1.24	.95	P221ZFTR-ND*	746.24/M	722.92/M	ERZ-CF2MK221
	240	150	200	415	0.1	5.0	200	P241ZFCT-ND*	1.90	1.24	.95	—	—	—	ERZ-CF2MK241
	270	175	225	475	0.1	6.0	200	P271ZFCT-ND*	1.90	1.24	.95	—	—	—	ERZ-CF2MK271
	360	230	300	620	0.1	6.0	200	P361ZFCT-ND*	1.90	1.24	.95	P361ZFTR-ND*	831.00/M	777.00/M	ERZ-CF2MK361
	390	260	320	675	0.1	6.0	200	P391ZFCT-ND◆*	1.90	1.24	.95	P391ZFTR-ND◆*	746.24/M	722.92/M	ERZ-CF2MK391
	430	275	350	745	0.1	6.3	200	P431ZFCT-ND*	1.90	1.24	.95	—	—	—	ERZ-CF2MK431
	470	300	385	810	0.1	7.0	200	P471ZFCT-ND*	1.90	1.24	.95	P471ZFTR-ND*	831.00/M	777.00/M	ERZ-CF2MK471
SF	22	14	18	43	0.02	0.9	125	P220ZSCT-ND◆*	2.10	1.37	1.05	—	—	—	ERZ-SF2MK220
	27	17	22	53	0.02	1.0	125	P270ZSCT-ND◆*	2.10	1.37	1.05	—	—	—	ERZ-SF2MK270
	33	20	26	65	0.02	1.2	125	P330ZSCT-ND◆*	2.10	1.37	1.05	P330ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK330
	39	25	31	77	0.02	1.5	125	P390ZSCT-ND◆*	2.10	1.37	1.05	P390ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK390
	47	30	38	93	0.02	1.8	125	P470ZSCT-ND◆*	2.10	1.37	1.05	P470ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK470
	56	35	45	110	0.02	2.2	125	P560ZSCT-ND*	2.10	1.37	1.05	P560ZSTR-ND*	826.88/M	801.04/M	ERZ-SF2MK560
	68	40	56	135	0.02	2.5	125	P680ZSCT-ND◆*	2.10	1.37	1.05	P680ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK680
	82	50	65	135	0.25	3.5	600	P820ZSCT-ND◆*	2.10	1.37	1.05	P820ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK820
	120	75	100	200	0.25	5.0	600	P121ZSCT-ND*	2.10	1.37	1.05	—	—	—	ERZ-SF2MK121
	220	140	180	360	0.25	9.0	600	P221ZSCT-ND◆*	2.10	1.37	1.05	P221ZSTR-ND◆*	826.88/M	801.04/M	ERZ-SF2MK221
	270	175	225	455	0.25	12.0	600	P271ZSCT-ND*	2.10	1.37	1.05	—	—	—	ERZ-SF2MK271
	390	250	320	650	0.25	12.0	400	P391ZSCT-ND◆*	2.10	1.37	1.05	—	—	—	ERZ-SF2MK391
VFT	100	60	85	175	0.1	2.0	400	P7333CT-ND	1.66	1.09	.83	—	—	—	ERZ-VF2T101
	150	95	125	260	0.1	3.0	400	P7334CT-ND	1.66	1.09	.83	P7334TR-ND	655.16/M	634.69/M	ERZ-VF2T151
	270	175	225	475	0.1	6.0	400	P7336CT-ND	1.66	1.09	.83	P7336TR-ND	655.16/M	634.69/M	ERZ-VF2T271

◆ ***RoHS Compliant*** ‡ Measuring Current of Maximum Clamping Voltage is as follows: For Varistor Voltage of 22 to 68 V: xA=1A, For Varistor Voltage of 82 to 470 V: xA=5A, For Varistor Voltage of VFM: xA=10A
† (8/20 µs, 2 times) * Not recommended for new design

Littelfuse
Expertise Applied | Answers Delivered

Multilayer Varistor TVS Surface Mount

ML Series

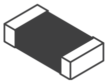

SPECIFICATIONS: • Typical leakage at 25°C<25A, maximum leakage, 100A at V_M(DC) • Average power dissipation of transients for 0402, 0603, 0805, 1206 and 1210 sizes not to exceed 0.03W, 0.05W, 0.1W, 0.1W and 0.15W respectively **FEATURES:** • Multilayer ceramic construction technology • Operating Temperature Range: -55°C ~ 125°C • Operating Voltage Range: 5.5V ~ 120V • Inherent Bi-directional clamping

Maximum Continuous Working Voltage			Maximum Clamping Voltage @1A	Maximum Non-Repetitive Surge Current	Maximum Non-Repetitive Surge Energy	Nominal Voltage @ 1mA DC Test Current				Cut Tape Pricing				Tape and Reel		
DC	AC	Package	(8/20µs)	(8/20µs) (A)	(10/1000µs) (J)	Min.	Max.	Capacitance (pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	Qty.	Pricing	Littelfuse Part No.
3.5	2.5	0603	13	30	0.1	3.7	7.0	1270	F2205CT-ND	.47	4.28	35.96	F2205TR-ND	2,500	169.88/M	V3.5MLA0603H
		0805	13	40	0.1	3.7	7.0	1380	F2207CT-ND	.54	5.00	42.05	F2207TR-ND	2,500	198.66/M	V3.5MLA0805LH
		0805	13	120	0.3	3.7	7.0	2530	F2206CT-ND	.54	5.00	42.05	F2206TR-ND	2,500	198.66/M	V3.5MLA0805H
		1206	13	100	0.3	3.7	7.0	6000	F2208CT-ND	1.17	10.76	90.48	F2208TR-ND	2,500	427.44/M	V3.5MLA1206H
5.5	4.0	0201	28	1	—	8.0	14.0	33	F3493CT-ND‡ ***NEW!***	.21	1.90	15.95	F3493TR-ND‡ ***NEW!***	15,000	68.75/M	V5.5MLA020133NR
		0201	26	1	—	8.0	14.0	47	F3494CT-ND‡ ***NEW!***	.21	1.90	15.95	F3494TR-ND‡ ***NEW!***	15,000	68.75/M	V5.5MLA020147NR
		0201	26	1	—	8.0	14.0	64	F3495CT-ND‡ ***NEW!***	.21	1.90	15.95	F3495TR-ND‡ ***NEW!***	15,000	68.75/M	V5.5MLA020164NR
		0402	38	20	0.05	15.9	21.5	70	F2259CT-ND‡	.36	3.35	28.13	F2259TR-ND‡	10,000	121.25/M	V5.5MLA0402LNR
		0402	19	20	0.05	7.1	10.8	220	F2258CT-ND‡	.36	3.35	28.13	F2258TR-ND‡	10,000	121.25/M	V5.5MLA0402NR
		0603	17.5	30	0.1	7.1	9.3	760	F2214CT-ND	.47	4.28	35.96	F2214TR-ND	2,500	169.88/M	V5.5MLA0603H
		0603	17.5	30	0.1	7.1	9.3	760	F3363CT-ND‡	.53	4.83	40.60	F3363TR-ND‡	2,500	191.80/M	V5.5MLA0603NH
		0805	17.5	40	0.1	7.1	9.3	990	F2216CT-ND	.54	5.00	42.05	F2216TR-ND	2,500	198.66/M	V5.5MLA0805LH
		0805	17.5	40	0.1	7.1	9.3	990	F2217CT-ND‡	.61	5.59	46.98	F2217TR-ND‡	2,500	221.94/M	V5.5MLA0805LNH
		0805	17.5	120	0.3	7.1	9.3	1840	F2215CT-ND	.54	5.00	42.05	F2215TR-ND	2,500	198.66/M	V5.5MLA0805H
		1206	17.5	150	0.4	7.1	9.3	5180	F2218CT-ND	1.43	13.11	110.20	F2218TR-ND	2,500	520.60/M	V5.5MLA1206H
		1206	17.5	150	0.4	7.1	9.3	5180	F2219CT-ND‡	1.17	10.76	90.48	F2219TR-ND‡	2,500	427.44/M	V5.5MLA1206NH
9	6.5	0402	35	4	0.02	11	16	33	F2261CT-ND‡	.36	3.35	28.13	F2261TR-ND‡	10,000	121.25/M	V9MLA0402LNR
		0402	30	20	0.05	11	16	120	F2260CT-ND‡	.36	3.35	28.13	F2260TR-ND‡	10,000	121.25/M	V9MLA0402NR
		0603	25.5	30	0.1	11	16	490	F2226CT-ND	.47	4.28	35.96	F2226TR-ND	2,500	169.88/M	V9MLA0603H
		0603	25.5	30	0.1	11	16	490	F2227CT-ND‡	.53	4.83	40.60	F2227TR-ND‡	2,500	191.80/M	V9MLA0603NH
		0805	25.5	40	0.1	11	16	520	F2228CT-ND	.54	5.00	42.05	F2228TR-ND	2,500	198.66/M	V9MLA0805LH
14	10	0402	38	20	0.05	15.9	21.5	70	F2262CT-ND‡	.36	3.35	28.13	F2262TR-ND‡	10,000	121.25/M	V14MLA0402NR
		0603	34.5	30	0.1	15.9	21.5	180	F2173CT-ND	.47	4.28	35.96	F2173TR-ND	2,500	169.88/M	V14MLA0603H
		0603	34.5	30	0.1	15.9	21.5	180	F2174CT-ND‡	.53	4.83	40.60	F2174TR-ND‡	2,500	191.80/M	V14MLA0603NH
		0805	32	40	0.1	15.9	20.3	320	F2176CT-ND	.54	5.00	42.05	F2176TR-ND	2,500	198.66/M	V14MLA0805LH
		0805	32	40	0.1	15.9	20.3	320	F2177CT-ND‡	.61	5.59	46.98	F2177TR-ND‡	2,500	221.94/M	V14MLA0805LNH
		0805	32	120	0.3	15.9	20.3	560	F2175CT-ND	.54	5.00	42.05	F2175TR-ND	2,500	198.66/M	V14MLA0805H
		1206	32	150	0.4	15.9	20.3	1840	F2178CT-ND	1.17	10.76	90.48	F2178TR-ND	2,500	427.44/M	V14MLA1206H
		1206	32	150	0.4	15.9	20.3	1840	F2179CT-ND‡	1.17	10.76	90.48	F2179TR-ND‡	2,500	427.44/M	V14MLA1206NH
18	14	0402	50	20	0.05	22	28	40	F2263CT-ND‡	.36	3.35	28.13	F2263TR-ND‡	10,000	121.25/M	V18MLA0402NR
		0603	50	30	0.1	22	28	120	F2181CT-ND	.47	4.28	35.96	F2181TR-ND	2,500	169.88/M	V18MLA0603H
		0805	44	40	0.1	22	28	290	F2183CT-ND	.54	5.00	42.05	F2183TR-ND	2,500	198.66/M	V18MLA0805LH
		0805	44	40	0.1	22	28	290	F2184CT-ND‡	.61	5.59	46.98	F2184TR-ND‡	2,500	221.94/M	V18MLA0805LNH
		0805	44	120	0.3	22	28	520	F2182CT-ND	.54	5.00	42.05	F2182TR-ND	2,500	198.66/M	V18MLA0805H
		1206	44	150	0.4	22	28	1270	F2185CT-ND	1.16	10.66	89.61	F2185TR-ND	2,500	423.34/M	V18MLA1206H
		1210	44†	500	2.5	22	28	1440	F2186CT-ND	3.07	28.22	237.22	F2186TR-ND	2,000	1186.10/M	V18MLA1210H
26	20	0603	60	30	0.1	31	38	110	F2191CT-ND	.47	4.28	35.96	F2191TR-ND	2,500	169.88/M	V26MLA0603H
		0805	60	40	0.1	29.5	38.5	140	F2193CT-ND	.54	5.00	42.05	F2193TR-ND	2,500	198.66/M	V26MLA0805LH
		0805	60	100	0.3	29.5	38.5	220	F2192CT-ND	.54	5.00	42.05	F2192TR-ND	2,500	198.66/M	V26MLA0805H
		0805	60	100	0.3	29.5	38.5	220	F2195CT-ND‡	.61	5.59	46.98	F2195TR-ND‡	2,500	221.94/M	V26MLA0805NH
		1206	60	150	0.6	29.5	38.5	1040	F2196CT-ND	1.05	9.66	81.20	F2196TR-ND	2,500	383.60/M	V26MLA1206H
		1206	60	150	0.6	29.5	38.5	1040	F2197CT-ND‡	1.17	10.76	90.48	F2197TR-ND‡	2,500	427.44/M	V26MLA1206NH
		1210	60†	300	1.2	29.5	38.5	1040	F2198CT-ND	1.25	11.52	96.86	F2198TR-ND	2,000	484.30/M	V26MLA1210H
30	25	0603	74	30	0.1	37	46	90	F2199CT-ND	.47	4.28	35.96	F2199TR-ND	2,500	169.88/M	V30MLA0603H
		0805	72	30	0.1	37	46	90	F2200CT-ND	.54	5.00	42.05	F2200TR-ND	2,500	198.66/M	V30MLA0805LH
		1210	68†	280	1.2	35	43	1820	F2201CT-ND	1.25	11.52	96.86	F2201TR-ND	2,000	484.30/M	V30MLA1210H
33	26	1206	75	180	0.8	38	49	640	F2203CT-ND	1.05	9.66	81.20	F2203TR-ND	2,500	383.60/M	V33MLA1206H
		1206	75	180	0.8	38	49	640	F2204CT-ND‡	1.17	10.76	90.48	F2204TR-ND‡	2,500	427.44/M	V33MLA1206NH
42	30	1206	92	180	0.8	46	60	640	F2209CT-ND	1.05	9.66	81.20	F2209TR-ND	2,500	383.60/M	V42MLA1206H
		1206	92	180	0.8	46	60	640	F2210CT-ND‡	1.17	10.76	90.48	F2210TR-ND‡	2,500	427.44/M	V42MLA1206NH
48	40	1210	105†	250	1.2	54.5	66.5	520	F2211CT-ND	1.25	11.52	96.86	F2211TR-ND	2,000	484.30/M	V48MLA1210H
56	40	1206	120	180	1.0	61	77	180	F2212CT-ND	1.05	9.66	81.20	F2212TR-ND	2,500	383.60/M	V56MLA1206H
60	50	1210	130†	250	1.5	67	83	440	F2220CT-ND	1.25	11.52	96.86	F2220TR-ND	2,000	484.30/M	V60MLA1210H
68	50	1206	140	180	1.0	76	90	180	F2221CT-ND	1.05	9.66	81.20	F2221TR-ND	2,500	383.60/M	V68MLA1206H
		1206	140	180	1.0	76	90	180	F2222CT-ND‡	1.17	10.76	90.48	F2222TR-ND‡	2,500	427.44/M	V68MLA1206NH
85	67	1210	180†	250	2.5	95	115	260	F2223CT-ND	1.25	11.52	96.86	F2223TR-ND	2,000	484.30/M	V85MLA1210H
		1210	180†	250	2.5	95	115	260	F2224CT-ND‡	1.46	13.39	112.52	F2224TR-ND‡	2,000	562.60/M	V85MLA1210NH
120	107	1210	260†	125	2.0	135	165	80	F2170CT-ND	1.25	11.52	96.86	F2170TR-ND	1,000	484.30	V120MLA1210H

‡ Nickel Plated Terminations † @ 2.5A

High Speed Multilayer Varistors TVS Surface Mount ESD Surge Suppressor — MHS Series

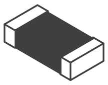

This series provides protection from ESD and EFT in high-speed data-line and other high frequency applications. The low capacitance of the MHS series permits usage in analog or digital circuits where it will not attenuate or distort the desired signal or data. **Features:** • Rated for ESD IEC 61000-4-2 (Level 4) • Rated for EFT/B IEC 61000-4-4 (Level 4) • Inherently Bi-directional • Operating Temperature: -55°C ~ 125°C • Construction: Multi-layer semiconducting ceramics • Nickel-plated terminations

Package	Maximum Continuous Working ≤ Voltage	Maximum Non-Repetitive Surge Energy (10/1000µs) (J)	Maximum Clamp Voltage @ 1A (8x20µs) (Vc)	Maximum ESD Clamp Voltage†		Maximum Leakage Current IL @ 15V (µA)	Capacitance @ 1MHz (1V p-p) (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
				< 8kV Contact‡	< 15kV Air‡‡				1	10	100		Qty.	Pricing	
0402	42	0.010	110	300	400	0.50	3	F2265CT-ND	.32	2.97	24.94	F2265TR-ND	10,000	107.50/M	V0402MHS03NR
	18	0.025	55	125	160	5.0	12	F2266CT-ND	.32	2.97	24.94	F2266TR-ND	10,000	107.50/M	V0402MHS12NR
	9	0.020	30	65	100	1.0 @ 5.5V	22	F2267CT-ND	.32	2.97	24.94	F2267TR-ND	10,000	107.50/M	V0402MHS22NR
0603	42	0.010	110	300	400	0.50	3	F2268CT-ND	.41	3.73	31.32	F2268TR-ND	2,500	147.96/M	V0603MHS03NH
	18	0.025	55	125	160	5.0	12	F2269CT-ND	.41	3.73	31.32	F2269TR-ND	2,500	147.96/M	V0603MHS12NH
	9	0.020	30	65	100	1.0 @ 5.5V	22	F2270CT-ND	.41	3.73	31.32	F2270TR-ND	2,500	147.96/M	V0603MHS22NH

† Tested to IEC-61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method). ‡‡ Corona discharge through air (represents actual ESD event).

Multilayer Varistors TVS Surface Mount ESD Suppressor/Filter — MLE Series

These components are designed to suppress ESD events, including those specified in IEC61000-4-2 or other Standards used for Electromagnetic Compliance testing. **Features:** • Rated for ESD (IEC 61000-4-2) • Characterized for Impedance and Capacitance • Operating Temperature Range: -55°C ~ 125°C • Multilayer Ceramic Construction Technology • Reel Option: 7 inch (178mm) diameter

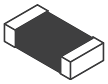

Package	Maximum Continuous Working ≤ Voltage§	Nominal Voltage @1mA DC		Maximum ESD Clamp Voltage†		Maximum Leakage IL@18V(µA)	Capacitance < (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
		Minimum	Maximum	< 8kV Contact‡	< 15kV Air‡‡				1	10	100		Qty.	Pricing	
0402	18	22	28	125	160	10	40	F2264CT-ND	.36	3.35	28.13	F2264TR-ND	10,000	121.25/M	V18MLE0402NR
0603	18	22	28	75	85	25	100	F2188CT-ND	.45	4.11	34.51	F2188TR-ND	2,500	163.04/M	V18MLE0603H
0805	18	22	28	70	75	25	500	F2189CT-ND	.54	5.00	42.05	F2189TR-ND	2,500	198.66/M	V18MLE0805H
1206	18	22	28	65	65	25	1700	F2190CT-ND	1.05	9.66	81.20	F2190TR-ND	2,500	383.60/M	V18MLE1206H

§ For applications of 18VDC or less. Higher voltages available. † Tested to IEC61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method).
‡‡ Corona discharge through air (represents actual ESD event).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! CH Surface Mount Varistor Series

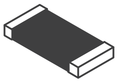

The CH series transient surge suppressors are small, metal-oxide varistors (MOV's) manufactured in leadless chip form. They are intended for use in a variety of applications from low voltage DC to off-line board-level protection. **Features:** • Leadless, Surface Mount Chip in 5 x 8mm size • No derating up to 125°C ambient

Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡			Maximum Peak Current (8/20µs) (A)†	Max. Clamping Voltage @ Test Current (8/20µs)‡		Capac-itance (pF)‡	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Littelfuse Part No.
V(RMS)	VDC	Minimum	Nominal	Maximum		(V)	(A)			1	10	100			
14	18	18.7	22.0	26.0	100	47	5	1600	F3451CT-ND	1.46	1.34	1.13	F3451TR-ND	562.60	V22CH8T
17	22	23.0	27.0	31.1	100	57	5	1300	F3452CT-ND	1.46	1.34	1.13	F3452TR-ND	562.60	V27CH8T
20	26	29.5	33.0	36.5	100	68	5	750	F3453CT-ND	1.46	1.34	1.13	F3453TR-ND	562.60	V33CH8T
25	31	35.0	39.0	43.0	100	79	5	700	F3454CT-ND	1.46	1.34	1.13	F3454TR-ND	562.60	V39CH8T
30	38	42.0	47.0	52.0	100	92	5	650	F3455CT-ND	1.46	1.34	1.13	F3455TR-ND	562.60	V47CH8T
35	45	50.0	56.0	62.0	100	107	5	600	F3456CT-ND	1.46	1.34	1.13	F3456TR-ND	562.60	V56CH8T
40	56	61.0	68.0	75.0	100	127	10	500	F3457CT-ND	1.46	1.34	1.13	F3457TR-ND	562.60	V68CH8T
75	102	108.0	120.0	132.0	250	200	10	300	F3460CT-ND	1.46	1.34	1.13	F3460TR-ND	562.60	V120CH8T
95	127	135.0	150.0	165.0	250	250	10	250	F3458CT-ND§	1.46	1.34	1.13	F3458TR-ND	562.60	V150CH8T
115	153	162.0	180.0	198.0	250	295	10	120	F3459CT-ND§	1.46	1.34	1.13	F3459TR-ND	562.60	V180CH8T
130	175	184.0	200.0	228.0	250	340	10	110	F3461CT-ND§	1.46	1.34	1.13	F3461TR-ND	562.60	V200CH8T
140	180	198.0	220.0	242.0	250	360	10	105	F3462CT-ND§	1.46	1.34	1.13	F3462TR-ND	562.60	V220CH8T
150	200	212.0	240.0	268.0	250	395	10	100	F3463CT-ND§	1.46	1.34	1.13	F3463TR-ND	562.60	V240CH8T
230	300	324.0	360.0	396.0	250	595	10	70	F3464CT-ND§	1.46	1.34	1.13	F3464TR-ND	562.60	V360CH8T
250	330	354.0	390.0	429.0	250	650	10	60	F3465CT-ND§	1.46	1.34	1.13	F3465TR-ND	562.60	V390CH8T
275	369	389.0	430.0	473.0	250	710	10	50	F3466CT-ND§	1.46	1.34	1.13	F3466TR-ND	562.60	V430CH8T

§ V150-V430 CH Varistors are recognized under UL file #E75961. † Maximum ratings at 125°C ‡ Ratings at 25°C

NEW! SM7 Surface Mount Varistor Series

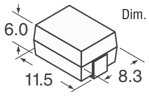

Dim. in mm

SM7 series is a plastic-encapsulated surface-mount metal oxide varistor (MOV) transient voltage surge suppressor that is designed to be operated continuously across AC power lines. Based on radial 7mm internal varistor element with similar characteristics to the Littelfuse LA / ZA series of varistors. **Features:** • AC voltage rating 275V to 510VAC rms • No de-rating up to 85°C ambient

Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡		Maximum Peak Current (8/20µs) (A)†	Max. Clamping Voltage @ Test Current (8/20µs)‡		Capac-itance (pF)‡	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 600	Littelfuse Part No.
V(RMS)	VDC	Minimum	Maximum		(V)	(A)			1	10	100			
275	369	389	473	1200	710	10	80	F3550CT-ND	2.32	2.14	1.80	F3550TR-ND	593.28	V275SM7
300	405	420	517	1200	775	10	70	F3551CT-ND	2.32	2.14	1.80	F3551TR-ND	593.28	V300SM7
320	420	462	565	1200	850	10	65	F3552CT-ND	2.32	2.14	1.80	F3552TR-ND	593.28	V320SM7
385	505	558	682	1200	1025	10	60	F3553CT-ND	2.57	2.36	1.99	F3553TR-ND	656.64	V385SM7
420	560	610	748	1200	1120	10	55	F3554CT-ND	2.57	2.36	1.99	F3554TR-ND	656.64	V420SM7
460	615	640	790	1200	1190	10	55	F3555CT-ND	2.85	2.63	2.21	F3555TR-ND	729.60	V460SM7
480	640	670	825	1200	1240	10	50	F3556CT-ND	2.85	2.63	2.21	F3556TR-ND	729.60	V480SM7
510	675	735	910	1200	1200	10	45	F3557CT-ND	3.21	2.95	2.48	F3557TR-ND	820.80	V510SM7

† Maximum ratings at 85°C ‡ Ratings at 25°C

NEW! SM20 Surface Mount Varistor Series

The Littelfuse 20mm SMD series is a surface-mount metal oxide device, for use in applications requiring hi-energy / transient current capability. Based on radial 20mm internal varistor element with similar characteristics to the Littelfuse LA/LZ series of varistors. **Features:** • DC voltage rating 26VDC • AC voltage rating 175-320AC

Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡		Maximum Peak Current (8/20µs) (A)†	Max. Clamping Voltage @ Test Current (8/20µs)‡		Capac-itance (pF)‡	Maximum Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Littelfuse Part No.
V(RMS)	VDC	Minimum	Maximum		(V)	(A)		H1	øD	S1		1	10	100	
20	26	32	40	2000	63	20	12000	10.5	26	35	F3543-ND	6.05	5.58	4.19	V26SM20
175	225	247	303	6500	455	100	1400	10.5	26	35	F3544-ND	3.58	3.30	2.48	V175SM20
230	300	324	396	6500	595	100	1100	10.5	26	35	F3545-ND	3.58	3.30	2.48	V230SM20
250	330	354	429	6500	650	100	1000	10.5	26	35	F3546-ND	3.58	3.30	2.48	V250SM20
275	369	389	473	6500	710	100	900	10.5	26	35	F3547-ND	3.58	3.30	2.48	V275SM20
300	405	420	517	6500	775	100	800	10.5	26	35	F3548-ND	4.88	4.50	3.38	V300SM20
320	420	462	540	6500	810	100	750	10.5	26	35	F3549-ND	4.88	4.50	3.38	V320SM20

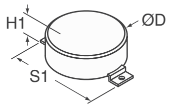

† Maximum ratings at 85°C ‡ Ratings at 25°C

Varistors (MOVs) Radial Leaded — C-III, LA, ZA and UltraMOV™ Series

Dim. in mm

The **C-III Series** and **LA Series** of transient voltage surge suppressors are radial leaded varistors (MOVs) that are designed to be operated continuously across AC power lines. These UL recognized varistors require very little mounting space.

The **ZA Series** of transient voltage surge suppressors are radial leaded varistors (MOVs) designed for use in the protection of low and medium voltage circuits and systems. *These devices are not UL, CSA, VDE or CECC certified.*

The **UltraMOV Series** are designed for applications requiring high peak surge current ratings and high energy absorption capability. The varistors are primarily intended for use in AC line voltage applications or other products that require voltage clamping of high transient surge currents from sources such as lightning, inductive load switching, or capacitor bank switching.

Features: (LA and ZA Series) • Lead Material: Tin-Coated Copper wire • Insulating Material: Cured, flame retardant red epoxy polymer meets UL94V-0 requirements • Device Labeling: Marked with LF, voltage, UL/CSA logos, and date code **Specifications:** • Temperature Coefficient of Clamping Voltage at Specified Test Current: <0.01 %/°C • Hi-Pot Encapsulation Coating Isolation Voltage Capability, (Dielectric must withstand indicated DC voltage for one minute per MIL-STD-202, Method 301): 2,500V, (C-III Series 5,000V) • Operating Ambient Temperature Range: -55°C ~ 85°C • Coating Insulation Resistance: 1,000MΩ *Note: See data sheet for detailed Agency Approvals.*

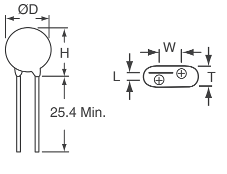

LA Series

Disc Diameter (mm)	Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡		Maximum Clamping Voltage (8x20µs)‡		Peak Current (8x20µs) I™ (A)†	Maximum Dimensions (mm)					Digi-Key Part No.	Pricing			Littelfuse Part No.
	V(RMS)	VDC	Minimum	Maximum	Vc (V)	Ip (A)		H	øD	W	L	T		1	10	100	
7	130	175	184	255	390	10	1200	12	9	6	3.5	5.6	F3001-ND	.28	2.58	19.35	V130LA1P
	130	175	184	228	340	10	1200	12	9	6	3.5	5.6	F3002-ND	.28	2.58	19.35	V130LA2P
	140	180	198	242	360	10	1200	12	9	6	3.5	5.6	F3003-ND	.28	2.58	19.35	V140LA2P
	150	200	212	284	430	10	1200	12	9	6	3.5	5.6	F3004-ND	.28	2.58	19.35	V150LA1P
	150	200	212	268	395	10	1200	12	9	6	3.5	5.6	F3005-ND	.28	2.58	19.35	V150LA2P
	250	330	354	473	730	10	1200	12	9	6	3.5	5.6	F3006-ND	.28	2.58	19.35	V250LA2P
	250	330	354	429	650	10	1200	12	9	6	3.5	5.6	F3007-ND	.28	2.58	19.35	V250LA4P
	275	369	389	515	775	10	1200	12	9	6	3.5	5.6	F3008-ND	.28	2.58	19.35	V275LA2P
	275	369	389	473	710	10	1200	12	9	6	3.5	5.6	F3009-ND	.28	2.58	19.35	V275LA4P
	300	405	420	517	775	10	1200	12	9	6	3.5	5.6	F3010-ND	.28	2.58	19.35	V300LA4P
10	130	175	184	228	340	25	2500	16	12.5	8.5	3.5	5.6	F3011-ND	.39	3.57	26.78	V130LA5P
	150	200	212	268	395	25	2500	16	12.5	8.5	3.5	5.6	F3012-ND	.39	3.57	26.78	V150LA5P
	250	330	354	429	650	25	2500	16	12.5	8.5	3.5	5.6	F3013-ND	.39	3.57	26.78	V250LA10P
	275	369	389	473	710	25	2500	16	12.5	8.5	3.5	5.6	F3014-ND	.39	3.57	26.78	V275LA10P
	420	560	610	748	1120	25	2500	16	12.5	8.5	3.5	5.6	F3362-ND	.39	3.57	26.78	V420LA10P
14	130	175	184	228	340	50	4500	20	17	8.5	3.5	5.6	F3015-ND	.49	4.53	33.98	V130LA10AP
	140	180	198	242	360	50	4500	20	17	8.5	3.5	5.6	F3016-ND	.49	4.53	33.98	V140LA10AP

Note: Average power dissipation of transients not to exceed 0.25W, 0.4W, 0.6W or 1W † Maximum ratings at 85°C ‡ Ratings at 25°C

(Continued)

Disc Diameter (mm)	Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡		Maximum Clamping Voltage (8x20µs)‡		Peak Current (8x20µs) I™ (A)†	Maximum Dimensions (mm)					Digi-Key Part No.	Pricing			Littelfuse Part No.
	V(RMS)	VDC	Minimum	Maximum	Vc (V)	Ip (A)		H	øD	W	L	T		1	10	100	
14	150	200	212	268	395	50	4500	20	17	8.5	3.5	5.6	F3017-ND	.49	4.53	33.98	V150LA10AP
	175	225	247	303	455	50	4500	20	17	8.5	3.5	5.6	F3018-ND	.49	4.53	33.98	V175LA10AP
	230	300	324	396	595	50	4500	20	17	8.5	3.5	5.6	F3019-ND	.49	4.53	33.98	V230LA20AP
	250	330	354	429	650	50	4500	20	17	8.5	3.5	5.6	F3020-ND	.49	4.53	33.98	V250LA20AP
	275	369	389	473	710	50	4500	20	17	8.5	3.5	5.6	F3021-ND	.49	4.53	33.98	V275LA20AP
	300	405	420	517	775	50	4500	20	17	8.5	3.5	5.6	F3022-ND	.49	4.53	33.98	V300LA20AP
	320	420	462	565	850	50	4500	20	17	8.5	3.5	5.6	F3023-ND	.49	4.53	33.98	V320LA20AP
	420	560	610	748	1120	50	4500	20.5	17	8.5	5.5	7.3	F3024-ND	.49	4.53	33.98	V420LA20AP
	480	640	670	825	1240	50	4500	20.5	17	8.5	5.5	7.3	F3025-ND	.67	6.15	46.13	V480LA40AP
	510	675	735	910	1350	50	4500	20.5	17	8.5	5.5	7.3	F3026-ND	1.05	9.72	72.90	V510LA40AP
	575	730	805	1000	1500	50	4500	20.5	17	8.5	5.5	8.3	F3027-ND	1.05	9.72	72.90	V575LA40AP
	660	850	940	1210	1820	50	4500	20.5	17	8.5	5.5	8.3	F3028-ND	1.65	15.21	114.08	V660LA50AP
	1000	1200	1425	1800	2700	50	4500	20.5	17	8.5	5.5	10.8	F3029-ND	2.63	24.24	181.80	V1000LA80AP
20	130	175	184	228	340	100	6500	26.5	23	8.5	3.5	5.6	F3030-ND	.77	7.14	53.55	V130LA20AP
	130	175	184	220	325	100	6500	26.5	23	8.5	3.5	5.6	F3031-ND	.77	7.14	53.55	V130LA20BP
	130	175	184	228	340	100	9000	28	23	8.5	5.5	7.3	F3490-ND§ ***NEW!***	1.05	9.72	72.90	V130LA20CP
	150	200	212	268	395	100	6500	26.5	23	8.5	3.5	5.6	F3032-ND	.77	7.14	53.55	V150LA20AP
	150	200	212	243	360	100	6500	26.5	23	8.5	3.5	5.6	F3033-ND	.77	7.14	53.55	V150LA20BP
	250	330	354	429	650	100	6500	26.5	23	8.5	3.5	5.6	F3034-ND	.77	7.14	53.55	V250LA40AP
	250	330	354	413	620	100	6500	26.5	23	8.5	3.5	5.6	F3035-ND	.77	7.14	53.55	V250LA40BP
	275	369	389	473	710	100	6500	26.5	23	8.5	3.5	5.6	F3036-ND	.77	7.14	53.55	V275LA40AP
	275	369	389	453	680	100	6500	26.5	23	8.5	3.5	5.6	F3037-ND	.77	7.14	53.55	V275LA40BP
	300	405	420	517	775	100	6500	26.5	23	8.5	3.5	5.6	F3038-ND	.77	7.14	53.55	V300LA40AP
	320	420	462	540	810	100	6500	26.5	23	8.5	3.5	5.6	F3039-ND	.77	7.14	53.55	V320LA40BP
	420	560	610	720	1060	100	6500	28	23	8.5	5.5	7.3	F3040-ND	.91	8.43	63.23	V420LA40BP
	480	640	670	790	1160	100	6500	28	23	8.5	5.5	7.3	F3041-ND	1.05	9.72	72.90	V480LA80BP
	510	675	735	860	1280	100	6500	28	23	8.5	5.5	7.3	F3042-ND	1.33	12.30	92.25	V510LA80BP
	575	730	805	960	1410	100	6500	28	23	8.5	5.5	8.3	F3043-ND	1.75	16.17	121.28	V575LA80BP
	625	825	900	1100	1650	100	6500	28	23	8.5	5.5	8.3	F3044-ND	2.35	21.66	162.45	V625LA80BP
	660	850	940	1100	1650	100	6500	28	23	8.5	5.5	8.3	F3045-ND	2.52	23.28	174.60	V660LA100BP
	1000	1200	1425	1600	2420	100	6500	28	23	8.5	5.5	10.8	F3046-ND	3.33	30.72	230.40	V1000LA160BP

§ C-III Series

ZA Series

Disc Diameter (mm)	Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡			Maximum Clamping Voltage (8x20µs)‡		Peak Current (8x20µs) I™ (A)†	Maximum Dimensions (mm)					Digi-Key Part No.	Pricing			Littelfuse Part No.
	V(RMS)	VDC	Minimum	Nominal	Maximum	Vc (V)	Ipk (A)		H	øD	W	L	T		1	10	100	
5	14	18	18.7	22	26	43	1	100	10	7	6	3	5	F3047-ND	.28	2.58	19.35	V22ZA05P
	30	38	42	47	55	93	1	100	10	7	6	3	5	F3048-ND	.28	2.58	19.35	V47ZA05P
	140	180	198	220	253	360	5	400	10	7	6	3.5	5.6	F3049-ND	.53	4.86	36.45	V220ZA05P
	250	330	351	—	449	650	5	400	10	7	6	3.5	5.6	F3361-ND	.53	4.86	36.45	V390ZA05P
7	4	5.5	6	8	11	22	2.5	100	12	9	6	3	5	F3059-ND	.42	3.87	29.03	V8ZA1P
	10	14	14.4	18	21.6	36	2.5	250	12	9	6	3	5	F3050-ND	.39	3.57	26.78	V18ZA1P
	14	18	18.7	22	26	43	2.5	250	12	9	6	3	5	F3051-ND	.28	2.58	19.35	V22ZA1P
	17	22	23	27	31.1	53	2.5	250	12	9	6	3	5	F3052-ND	.28	2.58	19.35	V27ZA1P
	20	26	29.5	33	36.5	65	2.5	250	12	9	6	3	5	F3053-ND	.28	2.58	19.35	V33ZA1P
	25	31	35	39	43	79	2.5	250	12	9	6	3	5	F3054-ND	.28	2.58	19.35	V39ZA1P
	30	38	42	47	52	93	2.5	250	12	9	6	3	5	F3055-ND	.28	2.58	19.35	V47ZA1P
	35	45	50	56	62	110	2.5	250	12	9	6	3	5	F3056-ND	.28	2.58	19.35	V56ZA2P
	40	56	61	68	75	135	2.5	250	12	9	6	3.5	5.6	F3057-ND	.28	2.58	19.35	V68ZA2P
	50	68	73	82	91	135	10	1200	12	9	6	3.5	5.6	F3058-ND	.53	4.86	36.45	V82ZA2P
	60	81	90	—	110	165	10	1200	12	9	6	3	5	F3358-ND	.28	2.58	19.35	V100ZA3P
	75	102	108	120	132	205	10	1200	12	9	6	3	5	F3060-ND	.28	2.58	19.35	V120ZA1P
	115	153	162	—	198	300	10	1200	12	9	6	3	5	F3360-ND	.28	2.58	19.35	V180ZA1P
10	4	5.5	6	8	11	20	5	250	16	12.5	8.5	3	5	F3065-ND	.39	3.57	26.78	V8ZA2P
	6	8	9	—	16	30	5	250	16	12.5	8.5	3	5	F3359-ND	.39	3.57	26.78	V12ZA2P
	14	18	18.7	22	26	43	5	500	16	12.5	8.5	3	5	F3061-ND	.39	3.57	26.78	V22ZA2P
	25	31	35	39	43	76	5	500	16	12.5	8.5	3	5	F3062-ND	.39	3.57	26.78	V39ZA3P
	30	38	42	47	52	93	5	500	16	12.5	8.5	3	5	F3063-ND	.39	3.57	26.78	V47ZA3P
	35	45	50	56	62	110	5	500	16	12.5	8.5	3	5	F3064-ND	.49	4.53	33.98	V56ZA3P
14	10	14	14.4	18	21.6	36	10	1000	20	17	8.5	3	5	F3066-ND	.49	4.53	33.98	V18ZA3P
	14	18	18.7	22	26	43	10	1000	20	17	8.5	3	5	F3067-ND	.63	5.82	43.65	V22ZA3P
	20	26	29.5	33	36.5	65	10	1000	20	17	8.5	3	5	F3068-ND	.49	4.53	33.98	V33ZA5P
	25	31	35	39	43	76	10	1000	20	17	8.5	3	5	F3069-ND	.49	4.53	33.98	V39ZA6P
	30	38	42	47	52	93	10	1000	20	17	8.5	3	5	F3070-ND	.49	4.53	33.98	V47ZA7P
	35	45	50	56	62	110	10	1000	20	17	8.5	3	5	F3071-ND	.49	4.53	33.98	V56ZA8P
	40	56	61	68	75	135	10	1000	20	17	8.5	3.5	5.6	F3072-ND	.49	4.53	33.98	V68ZA10P
	50	68	73	82	91	145	50	4500	20	17	8.5	3.5	5.6	F3073-ND	.63	5.82	43.65	V82ZA12P
	60	81	90	100	110	175	50	4500	20	17	8.5	3.5	5.6	F3074-ND	.49	4.53	33.98	V100ZA15P
	75	102	108	120	132	210	50	4500	20	17	8.5	3	5	F3075-ND	.49	4.53	33.98	V120ZA6P
	95	127	135	150	165	250	50	4500	20	17	8.5	3	5	F3076-ND	.49	4.53	33.98	V150ZA8P
	115	153	162	180	198	300	50	4500	20	17	8.5	3	5	F3077-ND	.49	4.53	33.98	V180ZA10P
20	10	14	14.4	18	21.6	37	20	2000	26.5	23	8.5	3	5	F3078-ND	.77	7.14	53.55	V18ZA40P
	14	18	19.2	24	26	43	20	2000	26.5	23	8.5	3	5	F3079-ND	.77	7.14	53.55	V24ZA50P
	17	22	23	27	31.1	50	20	2000	26.5	23	8.5	3	5	F3080-ND	.77	7.14	53.55	V27ZA60P
	21	27	29.5	33	36.5	58	20	2000	26.5	23	8.5	3	5	F3081-ND	.77	7.14	53.55	V33ZA70P
	23	31	32	36	40	63	20	2000	26.5	23	8.5	3	5	F3082-ND	.77	7.14	53.55	V36ZA80P
	30	38	42	47	52	93	20	2000	26.5	23	8.5	3	5	F3083-ND	.77	7.14	53.55	V47ZA20P

NEW! UltraMOV™ Series

Disc Diameter (mm)	Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡		Maximum Clamping Voltage (8x20µs)‡		Peak Current (8x20µs) I™ (A)†	Maximum Dimensions (mm)					Digi-Key Part No.	Pricing			Littelfuse Part No.
	V(RMS)	VDC	Minimum	Maximum	Vc (V)	Ipk (A)		H	øD	W	L	T		1	10	100	
20	130	170	184	226	340	100	10000	26.5	23	11	3.5	5.6	F3441-ND	.77	7.14	53.55	V20E130P
	150	200	216	264	395	100	10000	26.5	23	11	3.5	5.6	F3442-ND	.77	7.14	53.55	V20E150P
	250	320	351	429	650	100	10000	26.5	23	11	3.5	5.6	F3443-ND	.77	7.14	53.55	V20E250P
	275	350	387	473	710	100	10000	26.5	23	11	3.5	5.6	F3444-ND	.77	7.14	53.55	V20E275P
	300	385	423	517	775	100	10000	26.5	23	11	3.5	5.6	F3445-ND	.77	7.14	53.55	V20E300P
	320	420	459	561	840	100	10000	26.5	23	11	3.5	5.6	F3446-ND	.77	7.14	53.55	V20E320P
	420	560	612	748	1120	100	10000	28	23	11	5.5	7.3	F3447-ND	.77	7.14	53.55	V20E420P
	460	615	675	825	1240	100	10000	28	23	11	5.5	7.3	F3448-ND	.95	8.73	65.48	V20E460P
	510	670	738	902	1355	100	10000	28	23	11	5.5	7.3	F3449-ND	1.05	9.72	72.90	V20E510P
	625	825	900	1100	1650	100	10000	28	23	11	5.5	8.3	F3450-ND	1.29	11.94	89.55	V20E625P
25	130	170	184	226	335	100	22000	32.5	28	11.7	2.9	5.9	F3496-ND	2.50	23.10	173.25	V25S130P
	140	180	200	240	355	100	22000	32.5	28	11.7	3.0	6.0	F3497-ND	2.50	23.10	173.25	V25S140P
	150	200	216	264	390	100	22000	32.5	28	11.7	3.1	6.1	F3498-ND	2.50	23.10	173.25	V25S150P
	230	300	324	396	585	100	22000	32.5	28	11.7	3.4	6.4	F3499-ND	2.70	24.90	186.75	V25S230P
	250	320	351	429	640	100	22000	32.5	28	11.7	3.5	6.5	F3500-ND	2.70	24.90	186.75	V25S250P
	275	350	387	473	700	100	22000	32.5	28	11.7	3.7	6.7	F3501-ND	2.70	24.90	186.75	V25S275P

Note: Average power dissipation of transients not to exceed 0.25W, 0.4W, 0.6W or 1W † Maximum ratings at 85°C ‡ Ratings at 25°C

Varistors (MOVs) Axial Leaded — MA Series

Dim. in Inches (mm)

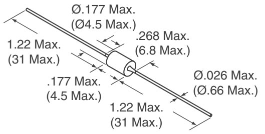

The MA Series of transient surge suppressors are axial-lead metal-oxide varistors (MOVs) for use in a wide variety of board level industrial and commercial electronic equipment. They are intended to protect components and signal/data lines from low energy transients where the small axial lead package is required.

Specifications:
- Hi-Pot Encapsulation (Isolation Voltage Capability): 1,000V
- Operating Temperature: -55°C ~ 85°C (No derating up to 85°C ambient)
- Insulation Resistance: 1,000MΩ

Maximum Continuous Working Voltage†		Varistor Voltage @ 1mA DC‡			Maximum Non-Repetitive Surge Current (8/20µs) (A)†	Maximum Clamping Voltage@ 2A (8/20µs) (V)‡	Capacitance (pF)‡	Part Marking	Digi-Key Part No.	Price Each			Littelfuse Part No.
V(RMS)	VDC	Minimum	Nominal	Maximum						1	10	100	
9	13	14	18	23	40	49	550	18A	F2271-ND	.70	.65	.49	V18MA1A
10	14	15	18	21	40	44	550	18B	F2272-ND	.70	.65	.49	V18MA1B
10	15	16	22	28	40	55	410	22A	F2273-ND	.70	.65	.49	V22MA1A
17	22	24	27	31	40	59	370	27B	F2276-ND	.70	.65	.49	V27MA1B
18	23	26	33	40	40	73	300	33A	F2277-ND	.70	.65	.49	V33MA1A
20	26	29.5	33	36.5	40	67	300	33B	F2278-ND	.70	.65	.49	V33MA1B
22	28	31	39	47	40	86	250	39A	F2279-ND	.70	.65	.49	V39MA2A
25	31	35	39	43	40	79	250	39B	F2280-ND	.70	.65	.49	V39MA2B
27	34	37	47	57	40	99	210	47A	F2281-ND	.70	.65	.49	V47MA2A
30	38	42	47	52	40	90	210	47B	F2282-ND	.70	.65	.49	V47MA2B
32	40	44	56	68	40	117	180	56A	F2283-ND	.70	.65	.49	V56MA2A
38	48	54	68	82	40	138	150	68A	F2285-ND	.70	.65	.49	V68MA3A
40	56	61	68	75	40	127	150	68B	F2286-ND	.70	.65	.49	V68MA3B
60	81	90	100	110	40	185	100	101	F2290-ND	.84	.78	.59	V100MA4B
132	181	187	220	253	100	380	21	220	F2297-ND	.70	.65	.49	V220MA2A
138	191	198	220	242	100	360	21	221	F2298-ND	.70	.65	.49	V220MA4B
253	349	365	430	495	100	740	11	430	F2305-ND	.70	.65	.49	V430MA3A
264	365	387	430	473	100	700	11	431	F2306-ND	.70	.65	.49	V430MA7B

Note: Average power dissipation of transients not to exceed 200mW † Maximum ratings at 85°C ‡ Ratings at 25°C

NEW! Multilayer Varistor ESD Supressor —

MLVA and MLVB Series

HALOGEN HF FREE

MLVA Series - Dimensions in mm			
Size	**L**	**W**	**H**
0201	0.60 ±0.05	0.30 ±0.05	0.30 ±0.05
0402	1.00 ±0.15	0.50 ±0.10	0.50 ±0.10
0603	1.60 ±0.15	0.80 ±0.10	0.80 ±0.10

MLVB Series - Dimensions in mm			
Size	**L**	**W**	**H**
0402	1.00 ±0.15	0.50 ±0.10	0.50 ±0.10
0603	1.60 ±0.20	0.80 ±0.20	0.80 ±0.20

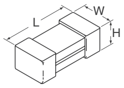

The MLVA and MLVB Series of multilayer varistors are designed to protect electronic circuits from ESD damage.
Features: • Zinc oxide based ceramic chip • Provides ESD protection with fast response time (<1ns) allowing equipment to pass IEC 61000-4-2 Level 4 Test • MLVA series 0402 and 0603 meet IEC 61000-4-4 and 61000-4-5

Size	Maximum Continuous Working Voltage		Varistor Voltage @ 1mA DC	Maximum Clamping Voltage @ 1A (8/20µs) (V)	Capacitance (pF)	Maximum Peak Current (8/20µs) (A)	Transient Energy (Joules)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Cooper Bussmann Part No.
	V(RMS)	VDC							1	10	100		Qty.	Pricing	
								MLVA Series							
0201	4	5.5	8 ~ 14	30	33	—	—	283-2987-1-ND	.21	1.93	16.24	283-2987-2-ND	15,000	70.00/M	MLVA02V05C033
	4	5.5	8 ~ 14	26	47	—	—	283-2988-1-ND	.21	1.93	16.24	283-2988-2-ND	15,000	70.00/M	MLVA02V05C047
	4	5.5	8 ~ 14	26	64	—	—	283-2989-1-ND	.21	1.93	16.24	283-2989-2-ND	15,000	70.00/M	MLVA02V05C064
0402	4	5.5	6.4 ~ 9.6	20	270	20	0.05	283-2990-1-ND	.15	1.38	11.60	283-2990-2-ND	10,000	50.00/M	MLVA04V05C270
	7	9	10 ~ 15	32	130	20	0.05	283-2991-1-ND	.15	1.38	11.60	283-2991-2-ND	10,000	50.00/M	MLVA04V09C130
	11	14	14.4 ~ 21.6	38	90	20	0.05	283-2992-1-ND	.15	1.38	11.60	283-2992-2-ND	10,000	50.00/M	MLVA04V14C090
	14	18	17.6 ~ 26.4	45	85	20	0.05	283-2993-1-ND	.15	1.38	11.60	283-2993-2-ND	10,000	50.00/M	MLVA04V18C085
0603	4	5.5	6.4 ~ 9.6	22	270	30	0.1	283-2994-1-ND	.24	2.24	18.85	283-2994-2-ND	4,000	89.05/M	MLVA06V05C270
	7	9	10 ~ 15	27	210	30	0.1	283-2995-1-ND	.24	2.24	18.85	283-2995-2-ND	4,000	89.05/M	MLVA06V09C210
	11	14	14.4 ~ 21.6	35	150	30	0.1	283-2996-1-ND	.24	2.24	18.85	283-2996-2-ND	4,000	89.05/M	MLVA06V14C150
	14	18	17.6 ~ 26.4	40	130	30	0.1	283-2997-1-ND	.24	2.24	18.85	283-2997-2-ND	4,000	89.05/M	MLVA06V18C130
	20	26	24.8 ~ 37.2	58	100	30	0.1	283-2998-1-ND	.24	2.24	18.85	283-2998-2-ND	4,000	89.05/M	MLVA06V26C100

Size	Working Voltage VDC	Varistor Voltage @ 1mA DC	Maximum Clamping Voltage @ 1A (8/20µs) (V)	Capacitance (pF)	Leakage Current (µA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Cooper Bussmann Part No.
							1	10	100		Qty.	Pricing	
						MLVB Series (Low Capacitance)							
0402	18	90 ~ 120	250†	0.5	<10	283-2999-1-ND	.18	1.66	13.92	283-2999-2-ND	10,000	60.00/M	MLVB04V18C0R5
	18	46 ~ 60	110†	1	<10	283-3000-1-ND	.18	1.66	13.92	283-3000-2-ND	10,000	60.00/M	MLVB04V18C001
	18	22 ~ 34	58	3	<10	283-3001-1-ND	.18	1.66	13.92	283-3001-2-ND	10,000	60.00/M	MLVB04V18C003
	9	11 ~ 17	35	5	<10	283-3002-1-ND	.18	1.66	13.92	283-3002-2-ND	10,000	60.00/M	MLVB04V09C005
0603	18	90 ~ 120	250†	0.5	<10	283-3003-1-ND	.30	2.76	23.20	283-3003-2-ND	4,000	109.60/M	MLVB06V18C0R5
	18	46 ~ 60	110†	1	<10	283-3004-1-ND	.30	2.76	23.20	283-3004-2-ND	4,000	109.60/M	MLVB06V18C001
	18	22 ~ 34	58	3	<10	283-3005-1-ND	.30	2.76	23.20	283-3005-2-ND	4,000	109.60/M	MLVB06V18C003
	9	11 ~ 17	35	5	<10	283-3006-1-ND	.30	2.76	23.20	283-3006-2-ND	4,000	109.60/M	MLVB06V09C005

† 0.5A maximum peak current across the varistor with 8/20µs waveform

Surge Arrestors

Features: • Hermetically Sealed • Fast Response • Low Capacitance • UL Certified, File #E245199
Specifications: • Insulation Resistance: 10mΩ minimum • Inter-Electrode Capacitance: 2.0pF maximum
Applications: • I.C. Circuits • Telephone Circuits • Signal Lines • Electro-Static Charge Elimination • Protections against Switching Surges

Fig.	DC Firing Voltage	Impulse Current Maximum	AC Discharge Current	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Lumex Part No.
					1	10	100			
1	90	10kA	65A	67-2087-ND† ***NEW!***	5.80	4.83	3.48	—	—	GT-CM3090L
2	150	1kA	1A	67-2000-1-ND	2.23	2.00	1.29	67-2000-2-ND	762.00/M	GT-SMD181215012-TR
	400	1kA	1A	67-2008-1-ND	1.96	1.76	1.14	67-2008-2-ND	670.00/M	GT-SMD181240012-TR

† Bulk

Dim. in mm

Fig. 1 ***NEW!***

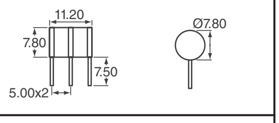

Fig. 2

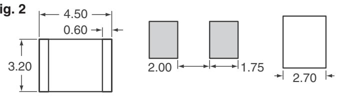

SMD Varistors

Fig. 1

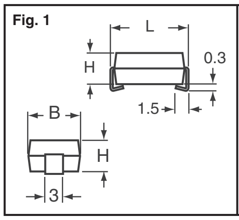

Fig. 2

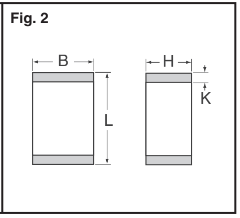

Specifications:

CU Series:

• Monolithic varistor element, encapsulated • Encapsulation: Thermoplast, flame retardant to UL 94V-0 • Termination: Tinned copper alloy • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5kVAC$_{RMS}$ • Insulation Resistance: ≥1.0GΩ • Response Time: <10ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

CT/CN Series:

• Multilayer Technology • Termination: Nickel barrier (CT Series) and Silver palladium (CN Series) • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C ~ 85°C • Storage Temperature Range: -55°C ~ 125°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Automotive Series:

• Multilayer Technology • Termination: Silver palladium • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C ~ 125°C • Storage Temperature Range: -55°C ~ 150°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Features:

CU Series:

• Electrical equivalents to leaded types S05/S07 up to 460 VAC$_{RMS}$ • Good Solderability • Approvals: UL (all types) and CSA (≥K130)

CT/CN Series:

• Good Solderability • Suitable for ESD protection • Bidirectional clamping

Automotive Series:

• High energy absorption, particularly in case of load dump • Stable protection level, low leakage current • High resistance to cyclic temperature stress • Wide operating temperature range • Low inductance (suitable for ESD protection) • Bidirectional clamping

Max. Allowance Voltage (V)		Varistor Voltage @ 1mA		Max. Clamping Voltage		imax 8/20 µs	Dimensions (mm)				Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Epcos
AC	DC	(V)	Tol. %	V	A	A	L	B	H	K	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
Fig. 1 — Monolithic CU Series																		
60	85	100	±10	165	5.0	400	8.0	6.3	3.2	—	495-2607-1-ND	.81	.76	.58	495-2607-2-ND	1,000	476.00	CU3225K60G2
150	200	240	±10	395	5.0	400	8.0	6.3	3.2	—	495-1463-1-ND	.82	.76	.59	495-1463-2-ND	1,000	480.00	CU3225K150G2K1
250	320	390	±10	650	5.0	400	8.0	6.3	4.5	—	495-2606-1-ND	.81	.76	.58	495-2606-2-ND	1,000	476.00	CU3225K250G2
275	350	430	±10	710	5.0	400	8.0	6.3	4.5	—	495-1464-1-ND	1.20	1.12	.86	495-1464-2-ND	1,000	480.00	CU3225K275G2K1
300	385	470	±10	775	5.0	400	8.0	6.3	4.5	—	495-1465-1-ND	.82	.76	.59	495-1465-2-ND	1,000	480.00	CU3225K300G2K1
150	200	240	±10	395	10	1200	10.2	8.0	3.2	—	495-1466-1-ND	1.51	1.41	1.09	495-1466-2-ND	1,000	604.94	CU4032K150G2K1
275	350	430	±10	710	10	1200	10.2	8.0	4.5	—	495-1467-1-ND	1.03	.96	.74	495-1467-2-ND	1,000	604.94	CU4032K275G2K1
300	385	470	±10	775	10	1200	10.2	8.0	4.5	—	495-1468-1-ND	1.51	1.41	1.09	495-1468-2-ND	1,000	604.94	CU4032K300G2K1
Fig. 2 — Multilayer CN/CT Series																		
4	5.5	8	±20	24	1.0	25	1.0	.50	.6	.1~.3	495-3425-1-ND	.15	.12	.08	495-3425-2-ND	10,000	60.00/M	CT0402M4G
4	5.5	8	±20	19	1.0	30	1.6	.80	.9	.1~.4	495-2595-1-ND	.23	.22	.17	495-2595-2-ND	4,000	92.00/M	CT0603M4G
14	18	22	±10	40	1.0	30	1.6	.80	.9	.1~.4	495-2593-1-ND	.16	.15	.12	495-2593-2-ND	4,000	94.00/M	CT0603K14G
25	31	39	±10	67	1.0	30	1.6	.80	.9	.1~.4	495-2594-1-ND	.16	.15	.12	495-2594-2-ND	4,000	94.00/M	CT0603K25G
4	5.5	8	±20	19	1.0	100	2.0	1.25	1.4	.13~.75	495-2599-1-ND	.27	.25	.20	495-2599-2-ND	3,000	157.00/M	CT0805M4G
11	14	18	±10	35	1.0	120	2.0	1.25	1.4	.13~.75	495-2596-1-ND	.46	.43	.33	495-2596-2-ND	3,000	157.00/M	CT0805K11G
25	31	39	±10	67	1.0	80	2.0	1.25	1.4	.13~.75	495-2597-1-ND	.27	.25	.20	495-2597-2-ND	3,000	157.00/M	CT0805K25G
30	38	47	±10	77	1.0	80	2.0	1.25	1.4	.13~.75	495-2598-1-ND	.39	.37	.28	495-2598-2-ND	3,000	157.00/M	CT0805K30G
17	22	27	±10	44	1.0	200	3.2	1.60	1.7	.25~.75	495-2601-1-ND	.34	.32	.25	495-2601-2-ND	3,000	202.00/M	CT1206K17G
25	31	39	±10	65	1.0	200	3.2	1.60	1.7	.25~.75	495-2591-1-ND	.53	.49	.38	495-2591-2-ND	2,000	211.00/M	CN1206K25G
30	38	47	±10	77	1.0	200	3.2	1.60	1.7	.25~.75	495-2602-1-ND	.34	.32	.25	495-2602-2-ND	2,000	202.00/M	CT1206K30G
40	56	68	±10	110	1.0	100	3.2	1.60	1.7	.25~.75	495-2603-1-ND	.37	.35	.27	495-2603-2-ND	2,000	219.00/M	CT1206K40G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25~.75	495-2396-1-ND	.93	.80	.67	495-2396-2-ND	2,000	373.00/M	CN1210K30G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25~.75	495-2604-1-ND	.43	.40	.31	495-2604-2-ND	2,000	250.00/M	CT1210K30G
30	38	47	±10	77	10	1200	5.7	5.00	2.5	.25~1.0	495-2397-1-ND	1.59	1.37	1.14	495-2397-2-ND	1,000	937.00	CN2220K30G
Fig. 2 — Multilayer Automotive Series																		
14	16	22	+23/-0	42	1.0	120	2.0	1.25	1.4	.13~.75	495-2600-1-ND	.28	.26	.21	495-2600-2-ND	3,000	165.00/M	CT0805S14BAUTOG
14	16	22	+23/-0	40	1.0	200	3.2	1.60	1.7	.25~.75	495-1459-1-ND	.45	.43	.33	495-1459-2-ND	3,000	266.98/M	CN1206S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25~.75	495-2605-1-ND	.42	.39	.30	495-2605-2-ND	3,000	246.00/M	CT1210S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25~.75	495-1460-1-ND	.43	.40	.31	495-1460-2-ND	3,000	250.32/M	CN1210S14BAUTOG
14	16	22	+23/-0	40	10	1200	5.7	5.00	2.5	.25~1.0	495-1461-1-ND	1.70	1.58	1.22	495-1461-2-ND	1,500	999.18/M	CN2220S14BAUTOG

Block Varistors - HighE Series

Specifications: • Disk-shaped varistor element, potted in plastic housing • Housing and potting flame-retardant to UL 94 V-0 • Screw terminals M4 • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 110°C • Electric Strength: ≥2.5 kV$_{RMS}$ • Insulation Resistance: ≥10MΩ • Response Time: <25ns **Features:** • Heavy-duty varistors (surge current capability up to 100kA) • Wide product range • Approvals: UL, CSA (≥K130), SEV

Max. Allowance Voltage (V)		Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage		imax 8/20 µs	Digi-Key	Pricing					Epcos
AC	DC		V	A	A	Part No.	1	10	100	1,000	5,000	Part No.
130	170	205	340	200	25000	495-1452-ND	30.27	259.42	2161.83	12322.40	11500.91/M	B32K130
150	200	240	395	200	25000	495-1453-ND	30.27	259.42	2161.83	12322.40	11500.91/M	B32K150
275	350	430	710	200	25000	495-2393-ND	19.02	151.33	1232.24	10809.13	—	B32K275
550	745	910	1500	200	25000	495-2394-ND	22.86	181.85	1480.80	12989.50	—	B32K550
130	170	205	340	300	40000	495-1454-ND	47.80	409.73	3414.38	19461.94	18164.48/M	B40K130
150	200	240	395	300	40000	495-1455-ND	47.80	409.73	3414.38	19461.94	18164.48/M	B40K150
275	350	430	710	300	40000	495-2395-ND	30.05	239.01	1946.19	17071.88	—	B40K275

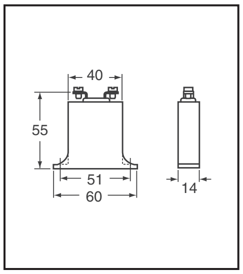

Strap Varistors – HighE Series

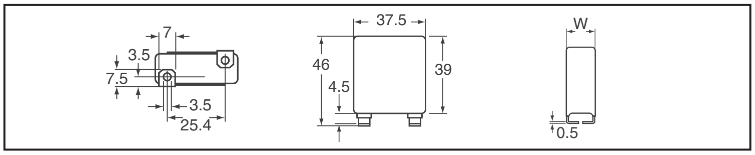

Specifications:

• Coating: Epoxy resin, flame-retardant to UL 94V-0 • Bolt-holed strap terminals for screw fixing or soldering • Bent strap terminals • Operating Temperature Range: -25°C ~ 85°C • Storage Temperature Range: -25°C ~ 110°C • Electric Strength: ≥2.5 kVAC$_{RMS}$ • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features:

• Maximum load capacity with minimum size • Approvals: UL, CSA

Max. Allowable Voltage (V)		Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage		imax. 8/20 µs	Dimensions (mm)		Digi-Key	Pricing					Epcos
AC	DC		V	A	A	W	S	Part No.	1	10	100	1,000	5,000	Part No.
150	200	240	395	300	40,000	8.3	—	495-1456-ND	40.07	343.47	2862.28	16314.97	15227.31/M	LS40K150QP
275	350	430	710	300	40,000	9.4	—	495-1457-ND◆	40.07	343.47	2862.28	16314.97	15227.31/M	LS40K275QP
320	420	510	840	300	40,000	9.9	—	495-1458-ND◆	14.28	122.40	1020.00	5814.00	5426.40/M	LS40K320QP
150	200	240	395	300	45,000	8.3	—	495-3439-ND◆	27.06	189.43	1623.69	14613.21	13530.75/M	LS41K150QP
420	560	680	1120	300	45,000	10.9	—	495-3442-ND◆	39.52	276.62	2371.01	21339.05	19758.38/M	LS41K420QP

◆ ***RoHS Compliant***

CeraDiodes
Standard, High Speed and Arrays

Due to the ongoing miniaturization, electronic devices are becoming more and more sensitive to ESD. Therefore, reliable protection components become absolutely necessary to safeguard valuable electronics against the impact of ESD. CeraDiodes are ceramic semiconductors optimized specifically for high performance in ESD applications. They have a non-linear voltage/current characteristic for effectively suppressing extremely fast voltage transients and offer superior parametric stability over the complete operating range of -40°C ~ 85°C. CeraDiodes are bi-directional devices. A single CeraDiode connected from signal/data line to ground routes positive and negative ESD transitions safely to the ground plane. This technique eliminates the need to route ESD charge into the power plane, possibly damaging nearby integrated circuits **Features:** Bi-directional ESD protection to IEC 61000-4-2 level 4 • No de-rating of maximum ratings up to 85°C • Extremely fast response time of < .5ns **Applications:** • EDP products (desktop and notebook computers) • Peripherals (printers, memory) • Portable handheld products • Mobile communication • Consumer products (flat TV's, set-top boxes, MP3 players, digital cameras, etc).

Size Code	Dimensions (mm) L	B	H	K
0402	1.0	0.5	0.5	0.2
0405	1.3	1.0	0.7	—
0508	2.0	1.2	0.9	0.2
0603	1.6	0.8	0.8	0.25
0612	3.2	1.6	0.9	0.35
1003	2.5	0.8	0.8	0.43
1012	3.2	2.5	1.2	0.45

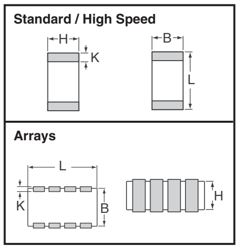

Size Code	Max. DC Working Voltage (V)	Peak Pulse Current @ 8/20µs (A)	Minimum Breakdown Voltage	Maximum Clamping Voltage	Typical Capacitance (pF)	Leakage Current (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
							Standard Speed							
0402	5.6	10	6.4	24	180	1	495-3418-1-ND‡	.13	1.02	6.35	495-3418-2-ND	10,000	52.00/M	B72590D50A60
0402	15	10	20	46	47	1	495-3417-1-ND‡	.20	1.49	9.33	495-3417-2-ND	10,000	52.00/M	B72590D150A60
0603	5.6	30	6.4	19	470	1	495-3414-1-ND‡	.15	1.18	7.35	495-3414-2-ND	4,000	71.00/M	B72500D50A60
0603	9.0	30	10	30	220	1	495-3415-1-ND‡	.23	1.73	10.80	495-3415-2-ND	4,000	71.00/M	B72500D90A60
0603	15	30	22	42	160	1	495-3412-1-ND‡	.15	1.18	7.35	495-3412-2-ND	4,000	71.00/M	B72500D150A60
0603	22	30	25	50	56	1	495-3413-1-ND‡	.15	1.18	7.35	495-3413-2-ND	4,000	71.00/M	B72500D200A60V7
1003	12	20	16	46	82	1	495-3416-1-ND‡	.16	1.22	7.60	495-3416-2-ND	4,000	74.00/M	B72570D120A60
							High Speed							
0402	5.6	—	150	—	0.6	1	495-3684-1-ND‡	.14	1.06	6.60	495-3684-2-ND	10,000	54.00/M	B72590D0050H160
0402	15	—	23	66	10	1	495-3685-1-ND‡	.14	1.06	6.60	495-3685-2-ND	10,000	54.00/M	B72590D0150H060
0402	16	—	65	290	2	1	495-3419-1-ND‡	.14	1.06	6.60	495-3419-2-ND	10,000	54.00/M	B72590D160H60
0603	16	—	65	290	3	1	495-3420-1-ND‡	.24	1.85	11.55	495-3420-2-ND	4,000	76.00/M	B72500D160H60
0603	30	—	50	120	10	1	495-3421-1-ND‡	.24	1.85	11.55	495-3421-2-ND	4,000	76.00/M	B72500D300H60
1003	16	—	38	146	3	1	495-3687-1-ND‡	.17	1.30	8.13	495-3687-2-ND	4,000	79.00/M	B72570D0160H060
							Arrays							
0405	22	10	25	50	75	—	495-3430-1-ND†	.30	2.27	14.20	495-3430-2-ND	4,000	94.00/M	B72762A2170S160
0508	16	—	24	59	10	.01	495-3427-1-ND	.53	4.06	25.38	495-3427-2-ND	4,000	167.00/M	B72714A8140S160
0508	16	—	22	66	10	1	495-3688-1-ND‡	.53	4.06	25.38	495-3688-2-ND	4,000	167.00/M	B72714D0160H060
0508	22	10	24	60	33	1	495-3682-1-ND‡	.53	4.06	25.38	495-3682-2-ND	4,000	167.00/M	B72714D0200A060
0612	16	—	150	350	3	3	495-3429-1-ND	.53	4.06	25.38	495-3429-2-ND	3,000	152.00/M	B72724A8151V62
0612	16	—	80	350	3	1	495-3422-1-ND‡	.53	4.06	25.38	495-3422-2-ND	3,000	152.00/M	B72724D160H62
0612	22	30	25	50	75	—	495-3428-1-ND	.53	4.06	25.38	495-3428-2-ND	3,000	152.00/M	B72724A2170S162
0612	22	30	25	50	56	1	495-3683-1-ND‡	.53	4.06	25.38	495-3683-2-ND	3,000	152.00/M	B72724D0200A062
1012	5.6	20	52	195	3.5	1	495-3423-1-ND‡§	.83	6.29	39.30	495-3423-2-ND	2,000	233.00/M	B72735D50H62

† 4 Terminals § 6 Terminals

‡ **495-3681-ND** CeraDiode Kit contains the items denoted (18 parts)........ **$22.50**

ETFV Series
Thermofuse Varistors

The Epcos Thermofuse varistors of the ETFV series combines a disk varistor with a thermofuse. The thermofuse is connected to a terminal lead of the disk varistor by a solder bridge. If a sustained supply-frequency over-voltage occurs, the varistor absorbs the over-voltage and heats up in the process. If the melting point of the thermofuse solder is exceeded, the latter opens and the disk varistor is permanently disconnected from the power line. This disconnection assures that the varistor is not overloaded and short-circuited. **Applications:** UPS, White Goods, Power Suppliers, AC Panel Protection modules, Dimmers **Specifications:** UL1449 and UL60691

Fig. 1

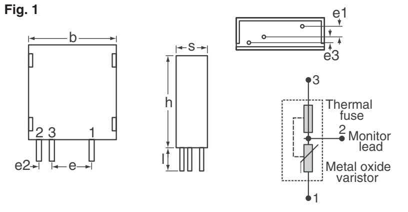

Fig. 2

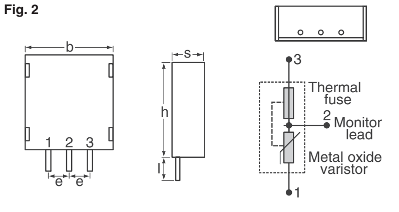

Fig.	Maximum Allowable Voltage (V) AC	DC	Varistor Voltage@ 1mA ±10% (V)	Maximum Clamping Voltage V	A	iMax. 8/20 µs A	Dimensions (mm) b	h	l	s	e	e1	e2	e3	Digi-Key Part No.	Pricing 1	10	100	1,000	Epcos Part No.
1	130	170	205	340	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3635-ND	2.05	17.55	146.25	833.63	ETFV14K130E2
	150	200	240	395	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3636-ND	2.05	17.55	146.25	833.63	ETFV14K150E2
	175	225	270	455	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3637-ND	2.05	17.55	146.25	833.63	ETFV14K175E2
	275	350	430	710	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3638-ND	2.05	17.55	146.25	833.63	ETFV14K275E2
	320	420	510	840	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3639-ND	2.05	17.55	146.25	833.63	ETFV14K320E2
	420	560	680	1120	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3640-ND	2.05	17.55	146.25	833.63	ETFV14K420E2
2	130	170	205	340	100	10,000	22	25.7	5	10	5	—	—	—	495-3641-ND	3.28	28.08	234.00	1333.80	ETFV20K130E2
	150	200	240	395	100	10,000	22	25.7	5	10	5	—	—	—	495-3642-ND	3.28	28.08	234.00	1333.80	ETFV20K150E2
	175	225	270	455	100	10,000	22	25.7	5	10	5	—	—	—	495-3643-ND	3.28	28.08	234.00	1333.80	ETFV20K175E2
	275	350	430	710	100	10,000	22	25.7	5	10	5	—	—	—	495-3644-ND	3.28	28.08	234.00	1333.80	ETFV20K275E2
	320	420	510	840	100	10,000	22	25.7	5	10	5	—	—	—	495-3645-ND	3.28	28.08	234.00	1333.80	ETFV20K320E2
	130	170	205	340	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3647-ND	4.67	40.01	333.45	1900.67	ETFV25K130E4
	175	225	270	455	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3649-ND	4.67	40.01	333.45	1900.67	ETFV25K175E4
	320	420	510	840	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3651-ND	4.67	40.01	333.45	1900.67	ETFV25K320E4
	420	560	680	1120	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3652-ND	4.67	40.01	333.45	1900.67	ETFV25K420E4

Leaded Varistor with RFI Suppression

Features: • RFI noise suppression and transient over voltage protection integrated in a single component. • Reliable protection against automotive transients such as load dump and jump start (for SR1 and SR2 types) **Applications:** • RFI noise suppression and transient over voltage protection on DC lines of small motors, windshield wipers, window lifters, mirrors, central locking, memory seat and sunroof.

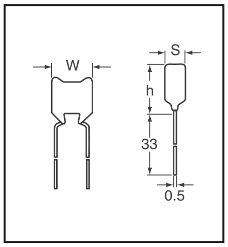

Maximum Allowable Voltage (V) AC	DC	Varistor Voltage @1mA (V)	Maximum Clamping Voltage (V)	iClamp (8/20µs) A	iMax (8/20µs) (A)	Dimensions (mm) W (Max.)	h (Max.)	S (Max.)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
20	26	33	54	1	200	6.0	7.5	4.5	495-4013-ND	1.03	.89	.74	SR6K20M105X
20	26	33	58	5	800	7.3	7.8	3.7	495-4014-ND	2.56	2.20	1.83	SR1K20M474X
20	26	33	58	10	1200	7.8	9.0	3.6	495-4015-ND	3.40	2.92	2.43	SR2K20M474X
14	16	22	40	5	800	7.3	7.8	3.7	495-4016-ND	2.47	2.12	1.77	SR1S14BM474X
35	45	56	90	1	100	6.0	7.5	4.5	495-4017-ND	1.51	1.30	1.08	SR6K35M105X

EPCOS

Surge Arresters

Gas-filled surge arresters offer optimum protection from atmospheric fields and discharges, inductive coupling from power supply lines, direct contact between communication and power lines, and electrostatic discharges. Epcos surge arresters limit over-voltages quickly and safely to uncritical levels and reliably discharge the resulting dangerous currents **Specifications:** • Operation and Storage Temperature Range: -40°C ~ 90°C • Climatic Category (IEC 60068-1) 40/90/21

Fig. 1

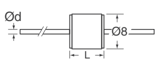

Fig. 2

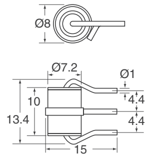

Fig. 3

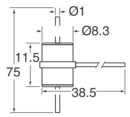

Fig. 4 ***NEW!***

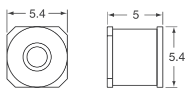

Fig. 5 ***NEW!***

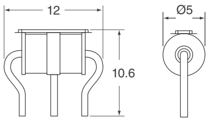

Fig. 6 ***NEW!***

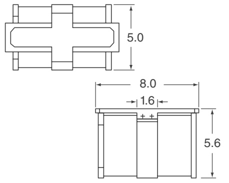

Fig. 7 ***NEW!***

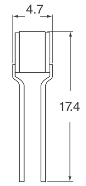

Fig. 8 ***NEW!***

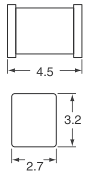

Fig. 9 ***NEW!***

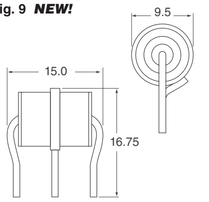

Fig. 10 ***NEW!***

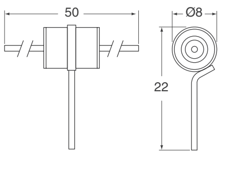

Fig. 11 ***NEW!***

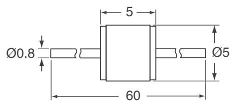

Fig.	DC Spark-over Voltage (V)	Tolerance (%)	Nominal Impulse Discharge Current (Wave 8/20µs)	Nominal Alternating Discharge Current	Capacitance @1MHz	Dimensions (mm)		Digi-Key Part No.	Pricing				Epcos Part No.
						L	ød		1	10	100	500	
1	75	±20	5kA	5A	1pF	6.05	0.8	495-1475-ND	1.17	9.75	78.00	341.25	EC75X
	90	±20	5kA	5A	1pF	5.0	0.8	495-2631-ND	3.08	25.68	205.40	898.63	M51-C90X
	90	±20	5kA	5A	1pF	6.05	0.8	495-1476-ND	1.41	11.75	94.00	411.25	EC90X
	90	±20	10kA	10A	1.5pF	6.05	1	495-4277-ND ***NEW!***	1.68	14.00	112.00	490.00	N81-A90X
	90	±20	20kA	20A	1.5pF	6.05	1	495-1472-ND	1.92	16.00	128.00	560.00	A81-C90X
	230	±15	5kA	5A	1pF	6.05	0.8	495-1473-ND	1.41	11.75	94.00	411.25	EC230X
	230	±20	5kA	5A	1pF	5.0	0.8	495-2632-ND	1.59	13.25	106.00	463.75	M51-A230X
	230	±20	10kA	10A	1.5pF	6.05	1	495-1878-ND	1.68	14.00	112.00	490.00	N81-A230X
	230	±20	20kA	20A	1.5pF	6.05	1	495-1471-ND	1.92	16.00	128.00	560.00	A81-A230X
	270	-10/+25	5kA	5A	1.5pF	7.9	1	495-1477-ND	2.91	24.25	194.00	848.75	L71-A270X
	350	±15	5kA	5A	1pF	6.05	0.8	495-1474-ND	1.41	11.75	94.00	411.25	EC350X
	350	±20	10kA	10A	1.5pF	6.05	1	495-1879-ND	1.68	14.00	112.00	490.00	N81-A350X
	350	±20	20kA	20A	1.5pF	6.05	1	495-4271-ND ***NEW!***	1.59	13.25	106.00	463.75	A81-A350X
	470	-10/+25	5kA	5A	1.5pF	7.9	1	495-1478-ND	2.91	24.25	194.00	848.75	L71-A470X
	500	±20	20kA	20A	1.5pF	6.05	1	495-4267-ND ***NEW!***	1.59	13.25	106.00	463.75	A81-A500X
	600	±20	20kA	20A	1.5pF	6.05	1	495-4274-ND ***NEW!***	1.92	16.00	128.00	560.00	A81-A600X
	600	±20	20kA	20A	1.5pF	6.05	1	495-4275-2-ND‡ ***NEW!***		424.00/500			A81-A600XG
	800	-10/+25	5kA	5A	1.5pF	7.9	1	495-1479-ND	2.91	24.25	194.00	848.75	L71-A800X
	800	±15	10kA	10A	1pF	7.9	1	495-4269-ND ***NEW!***	1.89	15.75	126.00	551.25	A71-H08X
	1,000	±15	10kA	10A	1pF	7.9	1	495-1469-ND	1.89	15.75	126.00	551.25	A71-H10X
	1,400	±20	10kA	10A	1pF	7.9	1	495-4270-ND ***NEW!***	1.89	15.75	126.00	551.25	A71-H14X
	2,500	±20	2.5kA	2.5A	1pF	7.9	1	495-1470-ND	1.89	15.75	126.00	551.25	A71-H25X
	4,500	±20	2.5kA	2.5A	1pF	7.9	1	495-4272-ND ***NEW!***	1.89	15.75	126.00	551.25	A71-H45X
2	90	±20	10kA	10A	1.5pF	—	—	495-1482-ND	2.04	17.00	136.00	595.00	T83-A90X
	230	±20	10kA	10A	1.5pF	—	—	495-2634-ND	2.04	17.00	136.00	595.00	T83-A230X
	230	±20	20kA	10A	1.5pF	—	—	495-1480-ND	2.37	19.75	158.00	691.25	T23-A230X
	350	±20	10kA	10A	1.5pF	—	—	495-2635-ND	2.04	17.00	136.00	595.00	T83-A350X
	350	±20	20kA	20A	1.5pF	—	—	495-4282-ND ***NEW!***	2.55	21.25	170.00	743.75	T23-A350X
3	350	±25	20kA	20A	1.5pF	—	—	495-1481-ND	3.60	30.00	240.00	1050.00	T61-C350X
4	90	±20	5kA	5A	1pF	—	—	495-4268-1-ND† ***NEW!***	2.33	21.39	179.80	—	M50-C90XSMD
	90	±20	5kA	5A	1pF	—	—	495-4268-2-ND‡ ***NEW!***		892.80/900			M50-C90XSMD
5	230	±20	5kA	5A	1.5pF	—	—	495-4273-ND ***NEW!***	4.02	33.48	267.80	1171.63	EZ3-A230XF1
6	90	±20	5kA	5A	1.5pF	—	—	495-4276-1-ND† ***NEW!***	3.64	33.47	281.30	—	T90-A90XFSMD
	90	±20	5kA	5A	1.5pF	—	—	495-4276-2-ND‡ ***NEW!***		1396.80/900			T90-A90XFSMD
7	220 ~ 320	—	2.5kA	—	1pF	—	—	495-4279-ND ***NEW!***	1.02	8.50	68.00	297.50	ES260XP
8	150	±30	2kA	2A	1pF	—	—	495-4280-1-ND† ***NEW!***	1.41	13.01	109.33	471.25	S30-A150X
	150	±30	2kA	2A	1pF	—	—	495-4280-2-ND‡ ***NEW!***		1206.40/2,000			S30-A150X
9	550 ~ 800	—	20kA	20A	1.5pF	—	—	495-4281-ND ***NEW!***	3.60	30.00	240.00	1050.00	T63-C650X
10	230	±20	20kA	10A	1.5pF	—	—	495-4283-ND ***NEW!***	3.39	28.28	226.20	989.63	T21-A230X
11	90	±20	5kA	5	1pF	—	—	495-4278-1-ND† ***NEW!***	2.40	22.08	185.60	800.00	M51-C90XG
	90	±20	5kA	5	1pF	—	—	495-4278-2-ND‡ ***NEW!***		1024.00/1,000			M51-C90XG

† Cut Tape ‡ Tape and Reel

Leaded Varistors

Specifications: • Coating: Epoxy resin, flame retardant to UL 94 V-0 • Terminals: Tinned copper wire • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5 kV_{RMS} • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features: **StandarD Series:** • Wide operating voltage range • No derating up to 85°C ambient temperature • Approvals: UL, CSA (All Types ≥K115), SEV, VDE, CECC **AdvanceD Series:** • High-energy AdvanceD series E2 • High surge current ratings up to 10kA • High energy ratings up to 325J • Wide operating voltage range • Approvals: UL, CSA, VDE, CECC **SuperioR Series:** • High-energy • Very high surge current ratings • High energy ratings • Approvals: UL, CSA, CECC, VDE, IEC **Automotive Series:** • High energy absorption, particularly in case of load dump • Jump-start strength • Stable protection level, minimum leakage current • High resistance to cyclic temperature stress • Types for T_A = 125°C

Fig. 1

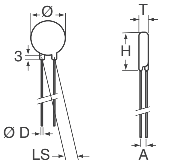

Fig. 2

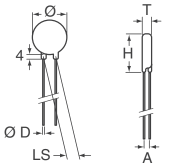

Maximum Allowable Voltage (V)		Varistor Voltage @1mA ±10% (V)	Maximum Clamping Voltage		iMax. 8/20µs (A)	Dimensions (mm)						Digi-Key Part No.	Pricing					Epcos Part No.
AC	DC		V	A		LS ±1	A ±1	Ø (Max.)	T (Max.)	H (Max.)	ØD ±0.05		1	10	100	1,000	5,000	
								Fig. 1 — StandarD Series										
11	14	18	36	1.0	100	5.0	1.2	7.0	3.3	8.5	0.6	495-3762-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K11
17	22	27	53	1.0	100	5.0	1.4	7.0	3.5	8.5	0.6	495-3764-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K17
25	31	39	77	1.0	100	5.0	1.3	7.0	3.6	8.5	0.6	495-3767-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K25
30	38	47	93	1.0	100	5.0	1.5	7.0	3.6	8.5	0.6	495-3769-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K30

◆ ***RoHS Compliant***

(Continued)

EPCOS

Leaded Varistors *(Cont.)*

Maximum Allowable Voltage (V)		Varistor Voltage @1mA ±10%	Maximum Clamping Voltage		iMax. 8/20µs	Dimensions (mm)						Digi-Key Part No.	Pricing					Epcos Part No.
AC	DC	(V)	V	A	(A)	LS ±1	A ±1	Ø (Max.)	T (Max.)	H (Max.)	ØD ±0.05		1	10	100	1,000	5,000	
35	45	56	110	1.0	100	5.0	1.6	7.0	3.7	8.5	0.6	495-3771-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K35
40	56	68	135	1.0	100	5.0	1.8	7.0	3.9	8.5	0.6	495-3772-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K40
50	65	82	135	5.0	400	5.0	1.2	7.0	3.3	8.5	0.6	495-3773-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K50
150	200	240	395	5.0	400	5.0	1.8	7.0	3.8	8.5	0.6	495-3780-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K150
250	320	390	650	5.0	400	5.0	1.8	7.0	4.2	8.5	0.6	495-3784-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K250
300	385	470	775	5.0	400	5.0	2.1	7.0	4.5	8.5	0.6	495-3787-ND◆	.28	2.41	20.08	114.43	106.80/M	S05K300
11	14	18	36	2.5	250	5.0	1.2	9.0	3.4	11.0	0.6	495-1402-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K11
14	18	22	43	2.5	250	5.0	1.3	9.0	3.5	11.0	0.6	495-1403-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K14
17	22	27	53	2.5	250	5.0	1.4	9.0	3.6	11.0	0.6	495-3765-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K17
20	26	33	65	2.5	250	5.0	1.2	9.0	3.6	11.0	0.6	495-2398-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K20
25	31	39	77	2.5	250	5.0	1.3	9.0	3.7	11.0	0.6	495-1404-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K25
30	38	47	93	2.5	250	5.0	1.5	9.0	3.7	11.0	0.6	495-1405-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K30
50	65	82	135	10	1,200	5.0	1.2	9.0	3.3	11.0	0.6	495-3774-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K50
130	170	205	340	10	1,200	5.0	1.6	9.0	3.6	11.0	0.6	495-1406-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K130
150	200	240	395	10	1,200	5.0	1.8	9.0	3.8	11.0	0.6	495-1407-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K150
250	320	390	650	10	1,200	5.0	1.8	9.0	4.2	11.0	0.6	495-3785-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K250
275	350	430	710	10	1,200	5.0	2.0	9.0	4.4	11.0	0.6	495-1408-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K275
300	385	470	775	10	1,200	5.0	2.1	9.0	4.5	11.0	0.6	495-2399-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K300
385	505	620	1,025	10	1,200	5.0	2.5	9.0	5.2	11.5	0.6	495-3790-ND◆	.31	2.63	21.93	124.97	116.65/M	S07K385
25	31	39	77	5.0	500	7.5	1.6	12.0	4.2	14.5	0.8	495-3768-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K25
30	38	47	93	5.0	500	7.5	1.7	12.0	4.4	14.5	0.8	495-3770-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K30
35	45	56	110	5.0	500	7.5	1.8	12.0	4.4	14.5	0.8	495-2400-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K35
140	180	220	360	25	2,500	7.5	1.9	12.0	4.3	14.5	0.8	495-3779-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K140
150	200	240	395	25	2,500	7.5	2.0	12.0	4.4	14.5	0.8	495-3781-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K150
275	350	430	710	25	2,500	7.5	2.2	12.0	5.0	14.5	0.8	495-3786-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K275
300	385	470	775	25	2,500	7.5	2.3	12.0	5.1	14.5	0.8	495-3788-ND◆	.42	3.63	30.25	172.43	160.93/M	S10K300
420	560	680	1,120	25	2,500	7.5	2.9	12.0	6.1	15.0	0.8	495-3791-ND◆	.61	5.22	43.53	248.09	231.56/M	S10K420
17	22	27	53	10	1,000	7.5	1.7	15.5	4.4	18.5	0.8	495-3766-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K17
30	38	47	93	10	1,000	7.5	1.8	15.5	4.4	18.5	0.8	495-2401-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K30
35	45	56	110	10	1,000	7.5	2.0	15.5	4.5	18.5	0.8	495-2402-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K35
75	100	120	200	50	4,500	7.5	1.5	15.5	4.2	18.5	0.8	495-2403-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K75
130	170	205	340	50	4,500	7.5	1.9	15.5	4.2	18.5	0.8	495-1409-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K130
140	180	220	360	50	4,500	7.5	2.0	15.5	4.3	18.5	0.8	495-1410-ND	.59	5.04	42.00	239.40	223.44/M	S14K140
150	200	240	395	50	4,500	7.5	2.1	15.5	4.4	18.5	0.8	495-1411-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K150
275	350	430	710	50	4,500	7.5	2.2	15.5	5.0	18.5	0.8	495-1412-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K275
300	385	470	775	50	4,500	7.5	2.3	15.5	5.2	18.5	0.8	495-3789-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K300
320	420	510	845	50	4,500	7.5	2.4	15.5	5.4	19.0	0.8	495-1413-ND◆	.59	5.04	42.00	239.40	223.44/M	S14K320
30	38	47	93	20	2,000	10.0	2.0	21.5	4.9	25.5	1.0	495-2405-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K30
130	170	205	340	100	8,000	10.0	2.0	21.5	4.7	25.5	1.0	495-1414-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K130
140	180	220	360	100	8,000	10.0	2.1	21.5	4.8	25.5	1.0	495-1415-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K140
150	200	240	395	100	8,000	10.0	2.2	21.5	4.9	25.5	1.0	495-1416-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K150
250	320	390	650	100	8,000	10.0	2.2	21.5	5.3	25.5	1.0	495-2404-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K250
275	350	430	710	100	8,000	10.0	2.3	21.5	5.4	25.5	1.0	495-1417-ND	1.31	11.23	93.55	533.24	497.69/M	S20K275
300	385	470	775	100	8,000	10.0	2.4	21.5	5.6	25.5	1.0	495-2406-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K300
320	420	510	845	100	8,000	10.0	2.6	21.5	5.8	25.5	1.0	495-1418-ND◆	1.31	11.23	93.55	533.24	497.69/M	S20K320
420	560	680	1,120	100	8,000	10.0	3.1	21.5	6.5	26.0	1.0	495-2407-ND◆	1.76	15.12	125.98	718.06	670.19/M	S20K420
Fig. 1 — AdvanceD Series																		
130	170	205	340	5.0	800	5.0	1.6	7.0	3.9	8.5	0.6	495-1419-ND◆	.34	2.89	24.08	137.23	128.08/M	S05K130E2
150	200	240	395	5.0	800	5.0	1.8	7.0	4.1	8.5	0.6	495-1421-ND◆	.34	2.89	24.08	137.23	128.08/M	S05K150E2
300	385	470	775	5.0	800	5.0	2.1	7.0	4.7	8.5	0.6	495-1422-ND◆	.34	2.89	24.08	137.23	128.08/M	S05K300E2
150	200	240	395	10	1,750	5.0	1.8	9.0	4.1	11.0	0.6	495-1424-ND◆	.34	2.89	24.08	137.23	128.08/M	S07K150E2
250	320	390	650	10	1,750	5.0	1.9	9.0	4.5	11.0	0.6	495-1425-ND◆	.34	2.89	24.08	137.23	128.08/M	S07K250E2
275	350	430	710	10	1,750	5.0	2.0	9.0	4.6	11.0	0.6	495-1426-ND◆	.34	2.89	24.08	137.23	128.08/M	S07K275E2
300	385	470	775	10	1,750	5.0	2.1	9.0	4.7	11.0	0.6	495-1427-ND◆	.34	2.89	24.08	137.23	128.08/M	S07K300E2
320	420	510	845	10	1,750	5.0	2.3	9.0	4.6	11.0	0.6	495-1428-ND◆	.34	2.89	24.08	137.23	128.08/M	S07K320E2
140	180	220	360	25	3,500	7.5	1.9	12.0	4.6	14.5	0.8	495-1429-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K140E2
150	200	240	395	25	3,500	7.5	2.0	12.0	4.7	14.5	0.8	495-1430-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K150E2
175	225	270	455	25	3,500	7.5	2.2	12.0	4.9	14.5	0.8	495-1431-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K175E2
175	225	270	455	25	3,500	7.5	2.4	12.0	5.1	16.0	0.8	495-4284-ND◆ ***NEW!***	.72	6.14	51.13	291.41	271.99/M	S10K175E2K1
250	320	390	650	25	3,500	7.5	2.1	12.0	5.2	14.5	0.8	495-1432-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K250E2
275	350	430	710	25	3,500	7.5	2.2	12.0	5.4	14.5	0.8	495-1433-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K275E2
275	350	430	710	25	3,500	7.5	3.2	12.0	5.9	16.0	0.8	495-4288-ND◆ ***NEW!***	.72	6.14	51.13	291.41	271.99/M	S10K275E2K1
300	385	470	775	25	3,500	7.5	2.3	12.0	5.6	14.5	0.8	495-1434-ND◆	.51	4.37	36.43	207.62	193.79/M	S10K300E2
300	385	470	775	25	3,500	7.5	3.5	12.0	6.1	16.0	0.8	495-4289-ND◆ ***NEW!***	.72	6.14	51.13	291.41	271.99/M	S10K300E2K1
320	420	510	840	25	3,500	7.5	3.7	12.0	6.3	16.0	0.8	495-4290-ND◆ ***NEW!***	.72	6.14	51.13	291.41	271.99/M	S10K320E2K1
420	560	680	1,120	25	3,500	7.5	3.5	12.0	7.4	15.0	0.8	495-1435-ND◆	.73	6.26	52.18	297.40	277.58/M	S10K420E2
130	170	205	340	50	6,000	7.5	2.0	16.0	4.7	20.0	0.8	495-4285-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K130E2K1
140	180	220	360	50	6,000	7.5	2.0	15.5	4.7	18.5	0.8	495-1437-ND	.70	6.04	50.33	286.85	267.73/M	S14K140E2
150	200	240	395	50	6,000	7.5	2.1	15.5	4.8	18.5	0.8	495-1438-ND◆	.70	6.04	50.33	286.85	267.73/M	S14K150E2
150	200	240	395	50	6,000	7.5	2.2	16.0	4.9	20.0	0.8	495-4286-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K150E2K1
175	225	270	455	50	6,000	7.5	2.2	15.5	4.9	18.5	0.8	495-1439-ND◆	.70	6.04	50.33	286.85	267.73/M	S14K175E2
175	225	270	455	50	6,000	7.5	2.4	16.0	5.1	20.0	0.8	495-4287-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K175E2K1
250	320	390	650	50	6,000	7.5	2.1	15.5	5.2	18.5	0.8	495-1440-ND◆	.70	6.04	50.33	286.85	267.73/M	S14K250E2
275	350	430	710	50	6,000	7.5	2.2	15.5	5.4	18.5	0.8	495-1441-ND◆	.70	6.04	50.33	286.85	267.73/M	S14K275E2
275	350	430	710	50	6,000	7.5	3.2	16.0	5.9	20.0	0.8	495-4291-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K275E2K1

◆ *RoHS Compliant*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPCOS

Leaded Varistors *(Cont.)*

Maximum Allowable Voltage (V) AC	Maximum Allowable Voltage (V) DC	Varistor Voltage @1mA ±10% (V)	Maximum Clamping Voltage V	Maximum Clamping Voltage A	iMax. 8/20µs (A)	Dimensions (mm) LS ±1	A ±1	Ø (Max.)	T (Max.)	H (Max.)	ØD ±0.05	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
300	385	470	775	50	6,000	7.5	2.3	15.5	5.6	18.5	0.8	495-1442-ND◆	.70	6.04	50.33	286.85	267.73/M	S14K300E2
300	385	470	775	50	6,000	7.5	3.5	16.0	6.1	20.0	0.8	495-4292-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K300E2K1
320	420	510	840	50	6,000	7.5	3.7	16.0	6.3	20.0	0.8	495-4293-ND◆ ***NEW!***	.95	8.14	67.80	386.46	360.70/M	S14K320E2K1
460	615	750	1240	50	6,000	7.5	5.1	16.5	8.5	20.5	0.8	495-4297-ND◆ ***NEW!***	1.59	13.66	113.83	648.80	605.55/M	S14K460E2K1
510	670	820	1355	50	6,000	7.5	5.4	17.0	8.9	21.0	0.8	495-4298-ND◆ ***NEW!***	2.31	19.79	164.95	940.22	877.54/M	S14K510E2K1
625	825	1,000	1650	50	6,000	7.5	6.4	17.0	9.9	21.0	0.8	495-4299-ND◆ ***NEW!***	2.31	19.80	165.00	940.50	877.80/M	S14K625E2K1
130	170	205	340	100	10,000	10.0	2.0	21.5	5.0	25.5	1.0	495-1443-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K130E2
140	180	220	360	100	10,000	10.0	2.1	21.5	5.1	25.5	1.0	495-1444-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K140E2
150	200	240	395	100	10,000	10.0	2.2	21.5	5.2	25.5	1.0	495-1445-ND	1.57	13.45	112.08	638.83	596.24/M	S20K150E2
175	225	270	455	100	10,000	10.0	2.3	21.5	5.3	25.5	1.0	495-1446-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K175E2
250	320	390	650	100	10,000	10.0	2.4	21.5	5.7	25.5	1.0	495-1447-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K250E2
275	350	430	710	100	10,000	10.0	2.6	21.5	5.8	25.5	1.0	495-1448-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K275E2
300	385	470	775	100	10,000	10.0	2.8	21.5	6.1	25.5	1.0	495-1449-ND◆	1.57	13.45	112.08	638.83	596.24/M	S20K300E2
NEW! Fig. 1 — SuperioR Series — RoHS Compliant NEW!																		
275	350	430	710	100	12,000	10.0	3.5	22.5	6.5	27.0	1.0	495-4294-ND	2.47	21.19	176.55	1006.34	939.25/M	S20K275E3K1
300	385	470	775	100	12,000	10.0	3.8	22.5	6.8	27.0	1.0	495-4295-ND	2.47	21.19	176.55	1006.34	939.25/M	S20K300E3K1
320	420	510	840	100	12,000	10.0	3.9	22.5	6.9	27.0	1.0	495-4296-ND	2.47	21.19	176.55	1006.34	939.25/M	S20K320E3K1
460	615	750	1240	100	12,000	10.0	5.3	22.5	8.9	27.5	1.0	495-4300-ND	2.94	25.23	210.25	1198.43	1118.53/M	S20K460E3K1
510	670	820	1355	100	10,000	10.0	5.6	23.0	9.3	28.0	1.0	495-4301-ND	4.40	37.68	314.00	1789.80	1670.48/M	S20K510E3K1
625	825	1,000	1650	100	10,000	10.0	6.6	23.0	10.3	28.0	1.0	495-4302-ND	4.40	37.68	314.00	1789.80	1670.48/M	S20K625E3K1
Fig. 2 — Automotive Series																		
14	16	22	43	5.0	500	7.5	1.5	13.0	5.0	16.5	0.8	495-2054-ND◆	1.12	9.60	79.98	455.86	425.47/M	S10K14AUTO
14	16	22	43	10	1,000	7.5	1.5	17.0	5.0	20.5	0.8	495-1450-ND◆	1.50	12.82	106.83	608.90	568.31/M	S14K14AUTO
30	34	47	93	10	1,000	7.5	1.8	17.0	5.3	20.5	0.8	495-4264-ND◆ ***NEW!***	1.50	12.82	106.83	608.90	568.31/M	S14K30AUTO
14	16	22	43	20	2,000	10.0	1.6	23.0	5.4	27.5	1.0	495-1451-ND	4.01	34.34	286.20	1631.34	1522.59/M	S20K14AUTO
25	28	39	77	20	2,000	10.0	2.9	23.0	6.2	27.5	1.0	495-4265-ND◆ ***NEW!***	4.01	34.34	286.20	1631.34	1522.59/M	S20K25AUTO
30	34	47	93	20	2,000	10.0	3.2	23.0	6.5	27.5	1.0	495-4266-ND◆ ***NEW!***	4.01	34.34	286.20	1631.34	1522.59/M	S20K30AUTO

◆ ***RoHS Compliant***

TDK

Multilayer Chip Varistors for Surge and Static Protection

AVF, AVR and AVRL Series

Digi-Reel® RoHS COMPLIANT

H

AVF Series:

Features: • 2GHz or more of cutoff frequency in differential mode. • Superior electrostatic absorption characteristics due to reduction of varistor voltage. • Meeting Electrostatic Discharge Test IEC61000-4-2, HBM (human body model) contact 8kV.

AVR/AVRL Series:

Features: • No polarity due to symmetrical current voltage characteristics • Excellent electrostatic absorption capability • Can replace a Zener diode and capacitor combination **Specifications:** • Operating Temperature Range: -40°C ~ 125°C

Fig. 1 ***NEW!***

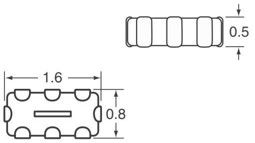

Fig. 2

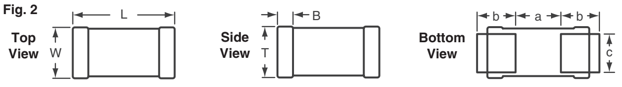

Size Code	Dimensions (mm) L	W	T	B (Min.)	a	b	c
0402	1.0	0.5	0.5	0.1	0.3 ~ 0.5	0.35 ~ 0.45	0.4 ~ 0.6
0603	1.6	0.8	0.8	0.2	0.6 ~ 0.8	0.6 ~ 0.8	0.6 ~ 0.8
0805	2.0	1.25	1.0	0.2	0.9 ~ 1.2	0.7 ~ 0.9	0.9 ~ 1.2

NEW! AVF Series

Fig.	Size Code	Varistor Voltage (VDC @1mA)	Maximum Continuous Voltage (VDC)	No. of Circuits	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	TDK Part No.
1	0603	12	5.5	1	445-5240-1-ND	.60	5.53	42.50	445-5240-2-ND	238.00/M	AVF16C212A000F205
		25	5.5	1	445-5241-1-ND	.60	5.53	42.50	445-5241-2-ND	238.00/M	AVF16C225A000F405

AVR Series

Fig.	Size Code	Varistor Voltage (VDC @1mA)	Maximum Continuous Voltage (VDC)	Clamping Voltage (8/20µs)	Maximum Peak Current (A)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TDK Part No.
2	0402	8	5.5	14 (1A)	25	650	445-2532-1-ND	.12	1.11	8.50	445-2532-2-ND	10,000	44.00/M	AVR-M1005C080MTAAB
		8	5.5	15 (1A)	3	100	445-2533-1-ND	.12	1.11	8.50	445-2533-2-ND	10,000	44.00/M	AVR-M1005C080MTABB
		8	5.5	19 (1A)	1	33	445-2559-1-ND	.12	1.11	8.50	445-2559-2-ND	10,000	44.00/M	AVR-M1005C080MTACB
		12	7.5	20 (1A)	10	130	445-2534-1-ND	.12	1.11	8.50	445-2534-2-ND	10,000	44.00/M	AVR-M1005C120MTAAB
		27	15	50 (1A)	4	40	445-2535-1-ND	.12	1.11	8.50	445-2535-2-ND	10,000	44.00/M	AVR-M1005C270MTAAB
		27	15	50 (1A)	1	15	445-2536-1-ND	.12	1.11	8.50	—	—	—	AVR-M1005C270MTABB
	0603	8	5.5	15 (2A)	30	650	445-2537-1-ND	.18	1.66	12.75	445-2537-2-ND	4,000	71.00/M	AVR-M1608C080MTAAB
		12	7.5	20 (2A)	50	1,050	445-2538-1-ND	.18	1.66	12.75	445-2538-2-ND	4,000	71.00/M	AVR-M1608C120MT6AB
		12	7.5	20 (2A)	15	400	445-2539-1-ND	.18	1.66	12.75	445-2539-2-ND	4,000	71.00/M	AVR-M1608C120MT2AB
		18	11	30 (2A)	30	600	445-2540-1-ND	.18	1.66	12.75	445-2540-2-ND	4,000	71.00/M	AVR-M1608C180MT6AB
		22	16	34 (2A)	30	560	445-2541-1-ND	.18	1.66	12.75	445-2541-2-ND	4,000	71.00/M	AVR-M1608C220KT6AB
		22	16	37 (2A)	10	210	445-2542-1-ND	.18	1.66	12.75	445-2542-2-ND	4,000	71.00/M	AVR-M1608C220KT2AB
		27	19	42 (2A)	48	430	445-2543-1-ND	.18	1.66	12.75	445-2543-2-ND	4,000	71.00/M	AVR-M1608C270KT6AB
		27	19	42 (2A)	20	160	445-2544-1-ND	.18	1.66	12.75	445-2544-2-ND	4,000	71.00/M	AVR-M1608C270KT2AB
		27	17	52 (2A)	2	30	445-2545-1-ND	.18	1.66	12.75	445-2545-2-ND	4,000	71.00/M	AVR-M1608C270MTAAB
		27	17	52 (2A)	2	15	445-2546-1-ND	.18	1.66	12.75	445-2546-2-ND	4,000	71.00/M	AVR-M1608C270MTABB
	0805	12	7.5	20 (5A)	60	1,000	445-2547-1-ND	.33	3.04	23.38	445-2547-2-ND	2,000	131.00/M	AVR-M2012C120MT6AB
		22	16	38 (5A)	100	800	445-2548-1-ND	.33	3.04	23.38	445-2548-2-ND	2,000	131.00/M	AVR-M2012C220KT6AB
		39	28	62 (5A)	100	430	445-2549-1-ND	.33	3.04	23.38	445-2549-2-ND	2,000	131.00/M	AVR-M2012C390KT6AB

AVRL Series

Fig.	Size Code	Typical Varistor Voltage (VDC @1mA)	Maximum Continuous Voltage (VDC)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TDK Part No.
2	0402	90	10	1.1	445-2560-1-ND	.18	1.66	12.75	445-2560-2-ND	10,000	66.00/M	AVRL101A1R1NTA
		39	10	1.1	445-2561-1-ND	.18	1.66	12.75	445-2561-2-ND	10,000	66.00/M	AVRL101A1R1NTB
		27	10	3.3	445-2562-1-ND	.18	1.66	12.75	445-2562-2-ND	10,000	66.00/M	AVRL101A3R3FTA
		27	10	6.8	445-2563-1-ND	.18	1.66	12.75	—	—	—	AVRL101A6R8GTA
	0603	90	10	1.1	445-2564-1-ND	.24	2.21	17.01	445-2564-2-ND	4,000	95.00/M	AVRL161A1R1NTA
		39	10	1.1	445-2565-1-ND	.24	2.21	17.01	445-2565-2-ND	4,000	95.00/M	AVRL161A1R1NTB
		27	10	3.3	445-2566-1-ND	.24	2.21	17.01	445-2566-2-ND	4,000	95.00/M	AVRL161A3R3FTA

BOURNS® Gas Discharge Tubes

Dimensions in Inches (mm)

Gas Discharge Tubes (GDTs) are used to protect personnel and sensitive equipment from hazardous transient voltages. Bourns GDTs are used in primary and secondary applications and can withstand multiple applications of high surge current energy in excess of 25KA. Bourns offers standard 8mm GDTs and a 5mm mini series GDT in two and three electrode versions featuring long service life and low capacitance and insertion loss. An optional, proprietary Switch-Grade Fail-Short is offered on the three electrode versions to provide superior protections from thermal runaway.

Fig.	No. of Poles	Fail-Short	DC Sparkover ±20% @ 100V/s	Impulse Sparkover		Digi-Key Part No.	Price Each			Tape and Reel§		Bourns Part No.
				100V/µs	1000V/µs		1	10	100	Qty.	Pricing	
1	3	—	230V	450V	650V	2026-23-C2LF-ND◆	2.59	2.25	1.73	—	—	2026-23-C2LF
	3	—	600V	925V	1250V	2026-60-C2LF-ND◆	2.59	2.25	1.73	—	—	2026-60-C2LF
	3	X	350V	625V	875V	2026-35-C2F-ND	3.34	2.90	2.23	—	—	2026-35-C2F
2	2	—	150V†	350V	575V	2027-15-BLF-ND◆	1.28	1.11	.85	—	—	2027-15-BLF
	2	—	230V†	450V	675V	2027-23-BLF-ND◆	1.28	1.11	.85	—	—	2027-23-BLF
3	2	—	90V	300V	550V	2035-09-BLF-ND◆	1.24	1.08	.83	—	—	2035-09-BLF
	2	—	230V†	450V	600V	2035-23-BLF-ND◆	1.24	1.08	.83	—	—	2035-23-BLF
4	2	—	90V	350V	525V	2035-09-SM-RPLFCT-ND◆Δ	1.29	1.09	.60	1,500	495.00/M	2035-09-SM-RPLF
	2	—	150V†	400V	550V	2035-15-SM-RPLFCT-ND◆Δ	1.29	1.09	.60	1,500	495.00/M	2035-15-SM-RPLF
	2	—	230V†	450V	600V	2035-23-SM-RPLFCT-ND◆Δ	1.29	1.09	.60	1,500	495.00/M	2035-23-SM-RPLF
	2	—	350V†	600V	750V	2035-35-SM-RPLFCT-ND◆Δ	1.29	1.09	.60	1,500	495.00/M	2035-35-SM-RPLF
	2	—	600V†	950V	1100V	2035-60-SM-RPLFCT-ND◆Δ	1.29	1.09	.60	1,500	495.00/M	2035-60-SM-RPLF
	2	—	800V†	—	1250V	2039-80-SM-RPLFCT-ND◆‡Δ	1.29	1.09	.60	1,500	495.00/M	2039-80-SM-RPLF
	2	—	1100V†	—	1500V	2039-110-SM-RPLFCT-ND◆‡Δ	1.29	1.09	.60	1,500	495.00/M	2039-110-SM-RPLF
5	3	—	90V	250V	550V	2036-09-B2LF-ND◆	2.59	2.25	1.73	—	—	2036-09-B2LF
	3	—	150V	350V	500V	2036-15-B2LF-ND◆	2.59	2.25	1.73	—	—	2036-15-B2LF
	3	—	350V	600V	750V	2036-35-B2LF-ND◆	2.59	2.25	1.73	—	—	2036-35-B2LF
	3	X	350V	600V	750V	2036-35-B2F-ND	3.34	2.90	2.23	—	—	2036-35-B2F
6	3	—	90V	250V	550V	2036-09-SM-RPLFCT-ND◆Δ	2.28	1.52	1.20	1,000	1001.00	2036-09-SM-RPLF
	3	—	150V	350V	500V	2036-15-SM-RPLFCT-ND◆Δ	2.28	1.52	1.20	1,000	1001.00	2036-15-SM-RPLF
	3	—	230V	450V	600V	2036-23-SM-RPLFCT-ND◆Δ	2.28	1.52	1.20	1,000	1001.00	2036-23-SM-RPLF
	3	—	350V	600V	750V	2036-35-SM-RPLFCT-ND◆Δ	2.28	1.52	1.20	1,000	1001.00	2036-35-SM-RPLF
	3	—	600V	850V	1100V	2036-60-SM-RPLFCT-ND◆Δ	2.28	1.52	1.20	1,000	1001.00	2036-60-SM-RPLF
	3	—	150V	350V	500V	2038-15-SM-RPLFCT-ND◆Δ	2.38	1.59	1.25	1,000	1440.00	2038-15-SM-RPLF
	3	—	230V	450V	600V	2038-23-SM-RPLFCT-ND◆Δ	2.38	1.59	1.25	1,000	1440.00	2038-23-SM-RPLF
	3	—	350V	600V	750V	2038-35-SM-RPLFCT-ND◆Δ	2.38	1.59	1.25	1,000	1440.00	2038-35-SM-RPLF
	3	—	470V	750V	950V	2038-47-SM-RPLFCT-ND◆Δ	2.38	1.59	1.25	1,000	1440.00	2038-47-SM-RPLF
	3	—	1100V	1500V	1700V	2038-110-SM-RPLFCT-ND◆Δ	2.38	1.59	1.25	1,000	1044.00	2038-110-SM-RPLF
	3	—	230V	550V	650V	2054-23-SM-RPLFCT-ND◆Δ	1.79	1.24	.97	900	806.40	2054-23-SM-RPLF
	3	—	300V	700V	800V	2054-30-SM-RPLFCT-ND◆Δ	1.79	1.24	.97	900	806.40	2054-30-SM-RPLF
	3	—	350V	700V	800V	2054-35-SM-RPLFCT-ND◆Δ	1.79	1.24	.97	900	806.40	2054-35-SM-RPLF
	3	—	420V	800V	900V	2054-42-SM-RPLFCT-ND◆Δ	1.79	1.24	.97	900	806.40	2054-42-SM-RPLF
	3	—	470V	800V	900V	2054-47-SM-RPLFCT-ND◆Δ	1.79	1.24	.97	900	806.40	2054-47-SM-RPLF

Fig.	No. of Poles	DC Sparkover ±20% @ 500V/s	Impulse Sparkover			Digi-Key Part No.	Cut Tape Price Each			Tape and Reel§		Bourns Part No.
			1000V/µs	1500V/µs	6000V/µs		1	10	100	Qty.	Pricing	
						G5000 and G6000 Series — RoHS Compliant						
7	2	900V	1600V	—	—	G5000ASCT-ND	.70	.65	.48	3,000	540.00/M	G5000AS
	2	400V	850V	—	—	G5200ASCT-ND	.62	.58	.42	3,000	480.00/M	G5200AS
	2	200V	—	650V	—	G5500ASCT-ND	.62	.58	.42	3,000	480.00/M	G5500AS
	2	200V	—	—	650V	G6000ASCT-ND	.70	.65	.48	3,000	540.00/M	G6000AS

◆ ***RoHS Compliant*** ‡ Not UL Recognized † ±15% § For Tape and Reel part number change CT-ND to TR-ND. Δ Cut Tape

Fig. 1

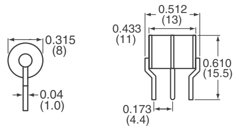

Fig. 2

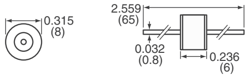

Fig. 3

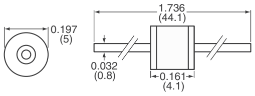

Fig. 4

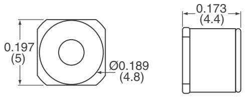

Fig. 5

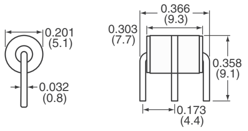

Fig. 6

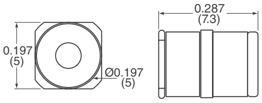

Fig. 7

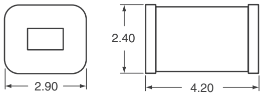

455HS Digi.Guard II – MSP® Heavy Duty Station Protectors

Dimensions in Inches (mm)

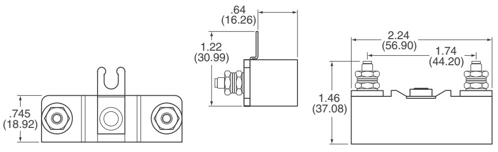

Bourns' Models 455HS Digi.Guard II Multi-Stage Protectors are new generation telecommunications Station Protectors designed to be the best all around choice for protecting copper pair voice-band and high speed data circuits. Combining the strengths of Gas Tube and solid-state protectors, these models integrate three advanced protection technologies: a proprietary sixth-generation Gas Tube, a precision matched metal oxide varistor and a patented Switch-Grade Failsafe mechanism.

Operating Temperature: -55°C ~ 85°C

Model	DC Breakdown	AC Breakdown @ 60Hz	Impulse Breakdown		Digi-Key Part No.	Price Each			Bourns Part No.
			100V/µs	1000V/µs		1	10	100	
455HS-MSP	300 ~ 400V	300 ~ 400V	600V	650V	2377-45-HS-ND	11.95	8.61	7.17	2377-45-HS

Thru-Hole Surge Arresters — GDTs

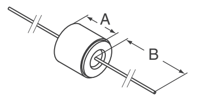

AC120 and AC240 Series: Specifically designed for protection on the AC line voltages for a high degree of surge protection in AC powered equipment. UL1449 recognized, CSA approved. **CG, CG2 and CG3 Series:** Designed for a high degree of surge protection at a very low cost. Use the CG series for protection of test and communication equipment where low voltage limits and extremely low arc voltages are required. UL recognized, CSA approved (CG3 Series). **SL1011A Series:** This series provides high levels of protection against fast rising transients in the 100V/µs range usually caused by lightning disturbances. This series also features ultra low capacitance (typically 1pF or less) making them ideal for the protection of high-speed transmission equipment. These devices are extremely robust and are able to divert a 5,000A pulse without destruction.

DC Breakdown Voltage @100V/s (V)			Impulse Discharge Current @8x20µS (kA)	Capacitance (pF) Maximum	Dimensions - Inches (mm)		Digi-Key Part No.	Price Each				Littelfuse Part No.
Minimum	Typical	Maximum			A	B		1	10	50	100	
AC120/240V Series												
225	—	500	700	1.0	0.244 (6.2)	1.49 (37.9)	F2724-ND	3.10	2.86	2.39	2.15	AC120L
425	—	715	800	1.0	0.244 (6.2)	1.49 (37.9)	F2725-ND	3.10	2.86	2.39	2.15	AC240L
CG/CG2 Series												
60	75	90	20	1.5	0.239 (6.07)	1.101 (27.97)	F2726-ND	3.07	2.84	2.37	2.13	CG75L
72	90	108	20	1.5	0.239 (6.07)	1.101 (27.97)	F2727-ND	3.07	2.84	2.37	2.13	CG90L
88	110	132	20	1.5	0.239 (6.07)	1.101 (27.97)	F2729-ND	3.07	2.84	2.37	2.13	CG110L
116	145	174	20	1.5	0.239 (6.07)	1.101 (27.97)	F2733-ND	3.07	2.84	2.37	2.13	CG2145L
195	230	265	20	1.5	0.239 (6.07)	1.101 (27.97)	F2735-ND	3.07	2.84	2.37	2.13	CG2230L
297	350	403	20	1.5	0.239 (6.07)	1.101 (27.97)	F2737-ND	3.07	2.84	2.37	2.13	CG2350L
400	470	540	20	1.5	0.239 (6.07)	1.101 (27.97)	F2739-ND	3.07	2.84	2.37	2.13	CG2470L
510	600	690	20	1.5	0.239 (6.07)	1.101 (27.97)	F2741-ND	3.38	3.13	2.61	2.35	CG2600L
680	800	920	10	1.5	0.239 (6.07)	1.101 (27.97)	F2743-ND	3.38	3.13	2.61	2.35	CG2800L
850	1000	1150	10	1.5	0.239 (6.07)	1.101 (27.97)	F2731-ND	3.38	3.13	2.61	2.35	CG21000L
CG3 Series — High Voltage												
1200	1500	1800	10	1.0	0.299 (7.6)	0.952 (24.2)	F2760-ND	3.97	3.66	3.05	2.75	CG31.5L
2000	2500	3000	10	1.0	0.299 (7.6)	0.952 (24.2)	F2745-ND	3.97	3.66	3.05	2.75	CG32.5L
SL1011A Series												
184	230	276	20	1.5	0.24 (6.00)	1.10 (28.00)	F3357CT-ND†	3.57	3.29	—	2.77	SL1011A230A
184	230	276	20	1.5	0.24 (6.00)	1.10 (28.00)	F3357TR-ND‡	1381.85/1,000				SL1011A230A

† Cut Tape ‡ Tape and Reel

SMT Surge Arresters — GDTs

These surge arresters have been specifically designed for use in SMT assembly applications for the protection of electrical and communication equipment. Low capacitance for use in high frequency applications such as CATV equipment, data lines, ADSL equipment and more

Dim. in Inches (mm)

Fig. 1

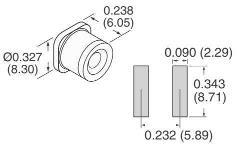

Fig. 2

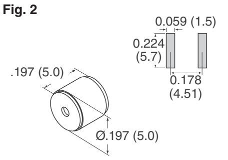

Fig. 3 ***NEW!***

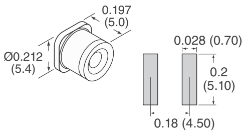

Fig. 4

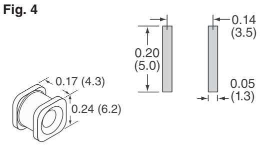

Fig. 5 ***NEW!***

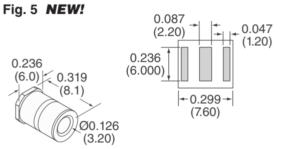

Fig.	DC Breakdown Voltage @100V/s (V)			Impulse Discharge Current @8x20µS (kA)	Capacitance (pF) Maximum	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
	Minimum	Typical	Maximum				1	10	100		Qty.	Pricing	
CG Series													
1	60	75	90	20	1.5	F2723CT-ND	3.67	3.38	2.84	F2723TR-ND	500	782.40	CG75MS
	72	90	108	20	1.5	F2728CT-ND	3.67	3.38	2.84	F2728TR-ND	500	782.40	CG90MS
	116	145	174	20	1.5	F2734CT-ND	3.55	3.27	2.75	F2734TR-ND	500	756.80	CG2145MS
	297	350	403	20	1.5	F2738CT-ND	3.55	3.27	2.75	F2738TR-ND	500	756.80	CG2350MS
	510	600	690	20	1.5	F2742CT-ND	3.55	3.27	2.75	F2742TR-ND	500	756.80	CG2600MS
	680	800	920	10	1.5	F2744CT-ND	3.55	3.27	2.75	F2744TR-ND	500	756.80	CG2800MS
CG5 Series — High Performance													
2	72	90	113	5	1	F2748CT-ND	3.23	2.98	2.50	F2748TR-ND	900	1241.28	CG590MS
	184	230	276	5	1	F2750CT-ND	3.23	2.98	2.50	F2750TR-ND	1,000	1249.90	CG5230MS
NEW! SL0902A Series NEW!													
3	72	90	108	2.5	1.5	F3488CT-ND	2.48	2.28	1.92	F3488TR-ND	900	950.40	SL0902A090SM
	184	230	276	2.5	1.5	F3489CT-ND	2.48	2.28	1.92	F3489TR-ND	900	950.40	SL0902A230SM
SL1002A Series													
4	72	90	108	5	1.2	F3356CT-ND	1.40	1.29	1.08	F3356TR-ND	1,000	539.40	SL1002A090SM
NEW! SL1003A Series NEW!													
5	72	90	108	5	1.5	F3409CT-ND	5.78	5.32	4.47	F3409TR-ND	700	1724.80	SL1003A090SM

AVX ***NEW!*** USB Series Varistor

Dim. in Inches (mm)

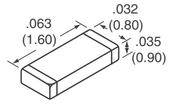

USB Series varistors are designed to protect the high speed data lines against ESD transients. They have very low capacitance and fast turn on times that make this series ideal for data and transmission lines with high data rates. The unique design enables these devices to meet the rigorous testing criteria of the IEC 61000-4-2 standards. New and improved manufacturing process has created these USB series to be one of the best plated varistors in the market today.

Size	Working Voltage DC	Typical Break-down Voltage	Max. Leakage Current	Typical Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
						1	10	100			
0603	18	120	2	10	478-5761-1-ND	.32	.30	.23	478-5761-2-ND	122.00	USB0001DP

MultiGuard Multilayer Ceramic Varistor TVS Arrays

ESD Protection for CMOS and Bi-Polar Systems

Dim. in Inches (mm)

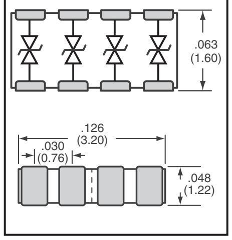

AVX's TVS Arrays address many trends in today's electronic circuits: mandatory ESD protection, mandatory EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents. MultiGuard products offer numerous advantages which include a faster turn-on time (<1nS), repetitive strike capability and space savings.

Size	Working Voltage		Break-down Voltage (V)	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
	DC	AC					1	10	100			
0612	5.6	4.0	8.5 ± 20%	30	825	478-2541-1-ND	1.68	1.57	1.18	478-2541-2-ND	649.00	MG064S05A150DP
	9.0	6.4	12.7 ± 15%	30	550	478-2481-1-ND	1.68	1.57	1.18	478-2481-2-ND	649.00	MG064S09A200DP
	14.0	10.0	19.5 ± 12%	30	425	478-2542-1-ND	1.68	1.57	1.18	478-2542-2-ND	649.00	MG064S14A300DP
	18.0	14.0	25.5 ± 10%	15	120	478-2543-1-ND	1.68	1.57	1.18	478-2543-2-ND	649.00	MG064S18A400DP
	≤18.0	≤14.0	—	20	75	478-2480-1-ND	1.60	1.49	1.12	478-2480-2-ND	617.00	MG064L18X500DP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX StaticGuard Multilayer Ceramic Varistor TVS Surface Mount

ESD Protection for CMOS, Bi-Polar Systems and Antennas

AVX StaticGuard devices are manufactured with the same multilayer construction as the AVX TransGuard Transient Voltage Suppressors (TVS).

The low capacitance of the StaticGuard products makes them ideal choices for ESD protection on high speed data lines.

Also, the low leakage current feature makes these parts optimal for battery operated equipment.

Size Code	Dimensions - Inches (mm) L	W	T
0201	.024 (0.60)	.011 (0.30)	.012 (0.3)
0603	.063 (1.60)	.031 (0.80)	.035 (0.014)
0805	.079 (2.01)	.049 (1.24)	.040 (1.02)
1206	.126 (3.20)	.063 (1.60)	.040 (1.02)

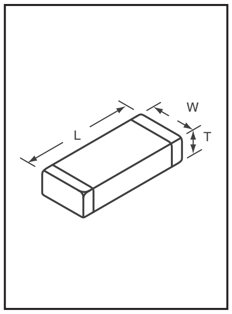

Size	Working Voltage DC	Working Voltage AC	Clamping Voltage (V)	Peak Current Rating (A)	Typical Cap. (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
0201	5.6	4.0	35	2	15	478-5480-1-ND	.08	.78	5.88	478-5480-2-ND	10,000	32.00/M	VC020105T150WP
	5.6	4.0	35	4	33	478-5481-1-ND	.08	.78	5.88	478-5481-2-ND	10,000	32.00/M	VC020105T330WP
	5.6	4.0	35	5	100	478-5840-1-ND ***NEW!***	.08	.78	5.88	478-5840-2-ND ***NEW!***	10,000	43.00/M	VC020105T101WP
0603	18.0	14.0	50	30	50	478-2503-1-ND	.35	3.25	24.50	478-2503-2-ND	1,000	135.00	VC06LC18X500DP
0805	18.0	14.0	50	30	80	478-2515-1-ND	.33	3.09	23.28	478-2515-2-ND	1,000	128.00	VC08LC18A500DP
1206	18.0	14.0	50	30	200	478-2530-1-ND	.37	3.45	25.97	478-2530-2-ND	1,000	143.00	VC12LC18A500DP
NEW! Antenna Guard NEW!													
0603	18.0	14.0	—	—	3	478-5819-1-ND	.11	.98	7.35	478-5819-2-ND	4,000	41.00/M	VC06AG183R0YAT1A

Medium Power Multilayer Varistor TVS Surface Mount

ESD and EMI Protection Devices for Standard, Telecom and Automotive Applications

AVX's TVS devices address many trends in today's electronic circuits: ESD protection, EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs, and protection from induced slow speed transient voltages and currents.

Specifications:

- Storage Temperature: -55°C ~ 125°C • Operating Temperature: -55°C ~ 125°C

Size Code	Dimensions - Inches (mm) L	l	t
1206	.126 (3.20)	.063 (1.60)	.067 (1.70)
1210	.126 (3.20)	.098 (2.50)	.067 (1.70)
1812	.177 (4.50)	.126 (3.20)	.067 (1.70)
2220	.224 (5.70)	.197 (5.00)	.067 (1.70)

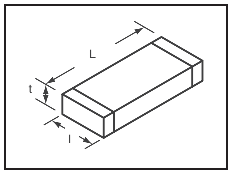

Standard Series

Size	Operating Voltage (Vdc)	Vnominal @ 1mA DC Minimum	Nominal	Maximum	Maximum Peak Current 8 x 20μs (A)	Typical Capacitance @ 1Khz/.5Vrms (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	AVX Part No.
1210	18	21.5	24	26.5	500	3000	478-2536-1-ND	.83	.77	.59	478-2536-2-ND	320.00/M	VJ13MC0180KBA
	26	29.7	33	36.3	300	1120	478-2537-1-ND◆	.83	.77	.59	478-2537-2-ND◆	320.00/M	VJ13MC0260KBA
	30	35	39	43	220	1020	478-2538-1-ND	.83	.77	.59	478-2538-2-ND	320.00/M	VJ13MC0300KBA
	30	35	39	43	280	1150	478-4757-1-ND◆	.92	.86	.65	478-4757-2-ND◆	320.00/M	VJ13PC0300KBA
	48	54.5	60.5	66.5	220	800	478-2539-1-ND	1.14	1.06	.80	478-2539-2-ND	439.00/M	VJ13MC0480KBA
	48	54.5	60.5	66.5	250	840	478-4758-1-ND◆	.83	.77	.59	478-4758-2-ND◆	320.00/M	VJ13PC0480KBA
	60	67	75	83	250	600	478-2540-1-ND◆	.83	.77	.59	478-2540-2-ND◆	320.00/M	VJ13MC0600KBA

◆ ***RoHS Compliant***

Automotive Series

Size	Operating Voltage Vrms	Vdc	Vnominal @ 1mA DC Minimum	Nominal	Maximum	Maximum Peak Current 8 x 20μs (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
1206	14	16	22	24.5	27	200	900	478-4759-1-ND	.56	.52	.40	478-4759-2-ND	3,000	215.00/M	VC20MA0160KBA
1210	14	16	22	24.5	27	400	1800	478-4760-1-ND	.83	.77	.58	478-4760-2-ND	2,000	286.00/M	VC13MA0160KBA
1812	14	16	22	24.5	27	800	5000	478-4761-1-ND	1.12	1.04	.79	478-4761-2-ND	1,250	387.00/M	VC14MA0160KBA
2220	14	16	22	24.5	27	1200	11000	478-2533-1-ND	1.92	1.79	1.35	478-2533-2-ND	1,250	742.00/M	VC15MA0160KBA
	14	16	22	24.5	27	1200	16000	478-2535-1-ND	1.98	1.84	1.39	478-2535-2-ND	1,250	763.00/M	VC15PA0160KBA
	30	34	42.3	47	51.7	1200	4000	478-2534-1-ND	1.84	1.71	1.29	478-2534-2-ND	1,250	709.00/M	VC15MA0340KBA

TransFeed Multilayer Ceramic Varistor TVS

TVS Protection and EMI Attenuation in a Single Chip

AVX has combined the best electrical characteristics of its TransGuard TVS and its Feedthru Capacitors into a single chip for state-of-the-art overvoltage circuit protection and EMI reduction over a broad range of frequencies. This unique combination of multilayer ceramic construction in a feedthru configuration gives the circuit designer a single 0805 chip that responds to transient events faster than any TVS device on the market today and provides significant EMI attenuation when in the off-state.

Typical Applications: • Fingerprint ID Circuit • Magnetic Field Circuit • LCD Dashboard Driver

Dim. in Inches (mm)

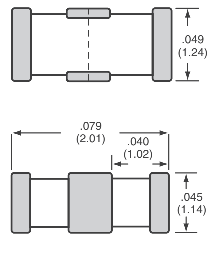

Size	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
0805	5.6	4.0	8.5 ± 20%	30	800	478-2544-1-ND	.48	.45	.34	478-2544-2-ND	185.00	V2F105A150Y2EDP
	5.6	4.0	8.5 ± 20%	120	2500	478-2482-1-ND	.72	.67	.51	478-2482-2-ND	277.00	V2F105C150Y1FDP
	14.0	10.0	18.5 ± 12%	30	300	478-2483-1-ND	.48	.45	.34	478-2483-2-ND	185.00	V2F114A300Y2EDP
	14.0	10.0	18.5 ± 12%	120	900	478-2484-1-ND	.72	.67	.51	478-2484-2-ND	277.00	V2F114C300Y1FDP
	18.0	13.0	25.5 ± 10%	30	200	478-2485-1-ND	.48	.45	.34	478-2485-2-ND	185.00	V2F118A400Y2EDP
	18.0	13.0	25.5 ± 10%	120	500	478-2486-1-ND	.72	.67	.51	478-2486-2-ND	277.00	V2F118C400Y1FDP

UltraGuard Series – ESD Protection for Low Leakage Requirements

Faster semiconductor clock speeds and an increasing reliance on batteries as power sources have resulted in the need for varistors that exhibit very low leakage current. The UltraGuard (UG) Series of AVX Transient Voltage Suppressors address this problem. The UG Series is the ideal transient protection solution for high clock speed integrated circuit applications, battery-operated device, backlit display, medical/instrument application, low voltage power conversion circuits and power supervisory chip sets. UltraGuard's low leakage characteristics are also suitable for optic circuits like LDD, SerDes, and laser diodes.

Size Code	Dimensions (mm) L	W	T (Max.)
0402	1.00	0.50	0.60
0603	1.60	0.80	0.90
0805	2.01	1.25	1.02
0405	1.00	1.37	—
0508	1.25	2.01	—

Fig.	Size	Working Voltage (V) DC	Working Voltage (V) AC	Leakage Current (μA)	Cap. (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
1	0402	3.0	2.3	2	175	478-5580-1-ND	.39	3.58	26.95	478-5580-2-ND	10,000	149.00/M	VCUG040030L1WP
	0402	15.0	11.0	2	40	478-5581-1-ND	.33	3.09	23.28	478-5581-2-ND	10,000	128.00/M	VCUG040150L1WP
	0402	18.0	14.0	1	30	478-5626-1-ND ***NEW!***	.11	1.04	7.84	478-5626-2-ND ***NEW!***	10,000	43.00/M	VCUG040180L1WP
	0603	5.0	3.5	2	550	478-5582-1-ND	.32	2.93	22.05	478-5582-2-ND	1,000	122.00	VCUG060050L1DP
	0603	10.0	7.1	2	250	478-5583-1-ND	.32	2.93	22.05	478-5583-2-ND	1,000	122.00	VCUG060100L1DP
	0805	5.0	3.5	2	750	478-5584-1-ND	.31	2.89	21.81	478-5584-2-ND	1,000	120.00	VCUG080050L1DP
	0805	15.0	11.0	2	120	478-5585-1-ND	.32	2.93	22.05	478-5585-2-ND	1,000	122.00	VCUG080150L1DP
2	0405	15.0	11.0	2	50	478-5586-1-ND	.42	3.90	29.40	478-5586-2-ND	1,000	162.00	MGUG040150L2DP
	0508	5.0	3.5	2	425	478-5587-1-ND	.81	7.48	56.35	478-5587-2-ND	1,000	311.00	MGUG050050L2DP

Fig. 1

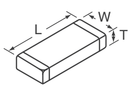

Fig. 2

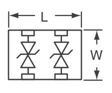

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX TransGuard Multilayer Ceramic Varistor TVS Surface Mount

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection.
Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching, etc.

Size Code	Dimensions — Inches (mm) Length (L)	Width (W)	Max. Thickness (T)
0201	.024 (0.60)	.011 (0.30)	.013 (0.33)
0402	.040 (1.02)	.020 (0.51)	.024 (0.61)
0603	.063 (1.60)	.031 (0.80)	.035 (0.90)

Size Code	Dimensions — Inches (mm) Length (L)	Width (W)	Max. Thickness (T)
0805	.079 (2.01)	.049 (1.24)	.040 (1.02)
1206	.126 (3.20)	.063 (1.60)	.040 (1.02)
1210	.126 (3.20)	.098 (2.49)	.067 (1.70)

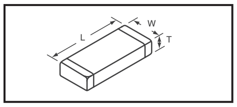

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
	DC	AC					1	10	100		Qty.	Pricing	
0201	5.6	4.0	12.8 ±22%	5	50	478-5762-1-ND ***NEW!***	.08	.78	5.88	478-5762-2-ND ***NEW!***	10,000	32.00/M	VC020105T500WP
	3.5	2.0	6.8 ±30%	10	100	478-6130-1-ND ***NEW!***	.08	.78	5.88	478-6130-2-ND ***NEW!***	10,000	32.00/M	VC020103V101WP
	3.5	2.0	6.8 ±30%	10	125	478-6139-1-ND ***NEW!***	.11	1.04	7.84	478-6139-2-ND ***NEW!***	10,000	43.00/M	VC020103V121WP
	3.5	2.0	6.8 ±30%	10	150	478-6140-1-ND ***NEW!***	.11	1.04	7.84	478-6140-2-ND ***NEW!***	10,000	43.00/M	VC020103V151WP
	5.6	4.0	8 ±20%	4	100	478-6131-1-ND ***NEW!***	.08	.78	5.88	478-6131-2-ND ***NEW!***	10,000	32.00/M	VC020105V101WP
	7.0	5.6	12 ±20%	5	100	478-6132-1-ND ***NEW!***	.08	.78	5.88	478-6132-2-ND ***NEW!***	10,000	32.00/M	VC020107V101WP
0402	5.6	4.0	8.5 ±20%	20	175	478-2545-1-ND	.32	2.93	22.05	478-2545-2-ND	10,000	122.00/M	VC040205X150WP
	14.0	10.0	18.5 ±12%	20	100	478-2497-1-ND	.32	2.93	22.05	478-2497-2-ND	10,000	122.00/M	VC040214X300WP
0603	3.3	2.3	5.0 ±20%	30	1450	478-2498-1-ND	.39	3.58	26.95	478-2498-2-ND	1,000	149.00	VC060303A100DP
	5.6	4.0	8.5 ±20%	30	750	478-3652-1-ND	.47	4.36	32.83	478-3652-2-ND	1,000	181.00	VC060305A150DP
	9.0	6.4	12.7 ±15%	30	550	478-6067-1-ND ***NEW!***	.39	3.61	27.20	478-6067-2-ND ***NEW!***	1,000	150.00	VC060309A200DP
	14.0	10.0	18.5 ±12%	30	350	478-2499-1-ND	.39	3.58	26.95	478-2499-2-ND	1,000	149.00	VC060314A300DP
	18.0	13.0	25.5 ±10%	30	150	478-2500-1-ND	.39	3.58	26.95	478-2500-2-ND	1,000	149.00	VC060318A400DP
	26.0	18.0	34.5 ±10%	30	155	478-2501-1-ND	.39	3.58	26.95	478-2501-2-ND	1,000	149.00	VC060326A580DP
	30.0	21.0	41 ±10%	30	125	478-2502-1-ND	.39	3.58	26.95	478-2502-2-ND	1,000	149.00	VC060330A650DP
0805	3.3	2.3	5.0 ±20%	40	1400	478-2504-1-ND	.42	3.90	29.40	478-2504-2-ND	1,000	162.00	VC080503A100DP
	3.3	2.3	5.0 ±20%	120	5000	478-2505-1-ND	.61	5.69	42.88	478-2505-2-ND	1,000	236.00	VC080503C100DP
	5.6	4.0	8.5 ±20%	40	1100	478-2506-1-ND	.39	3.58	26.95	478-2506-2-ND	1,000	149.00	VC080505A150DP
	5.6	4.0	8.5 ±20%	120	3000	478-2507-1-ND	.46	4.23	31.85	478-2507-2-ND	1,000	176.00	VC080505C150DP
	9.0	6.4	12.7 ±15%	40	750	478-3655-1-ND	.48	4.49	33.81	478-3655-2-ND	1,000	149.00	VC080509A200DP
	12.0	8.5	16 ±15%	40	525	478-2508-1-ND	.39	3.58	26.95	478-2508-2-ND	1,000	149.00	VC080512A250DP
	14.0	10.0	18.5 ±12%	40	325	478-2509-1-ND	.39	3.58	26.95	478-2509-2-ND	1,000	149.00	VC080514A300DP
	14.0	10.0	18.5 ±12%	120	900	478-2510-1-ND	.46	4.23	31.85	478-2510-2-ND	1,000	176.00	VC080514C300DP
	18.0	13.0	25.5 ±10%	30	225	478-2511-1-ND	.39	3.58	26.95	478-2511-2-ND	1,000	149.00	VC080518A400DP
	18.0	13.0	25.5 ±10%	100	550	478-2512-1-ND	.46	4.23	31.85	478-2512-2-ND	1,000	176.00	VC080518C400DP
	26.0	18.0	34.5 ±10%	30	120	478-2513-1-ND	.40	3.74	28.18	478-2513-2-ND	1,000	155.00	VC080526A580DP
	26.0	18.0	34.5 ±10%	100	250	478-2514-1-ND	.46	4.23	31.85	478-2514-2-ND	1,000	176.00	VC080526C580DP
	30.0	21.0	41.0 ±10%	30	90	478-3654-1-ND	.48	4.49	33.81	478-3654-2-ND	1,000	149.00	VC080530A650DP
1206	5.6	4.0	8.5 ±20%	40	1200	478-2516-1-ND	.53	4.88	36.75	478-2516-2-ND	1,000	203.00	VC120605A150DP
	5.6	4.0	8.5 ±20%	150	3000	478-2517-1-ND	.70	6.50	49.00	478-2517-2-ND	1,000	270.00	VC120605D150DP
	14.0	10.0	18.5 ±12%	40	600	478-2518-1-ND	.53	4.88	36.75	478-2518-2-ND	1,000	203.00	VC120614A300DP
	14.0	10.0	18.5 ±12%	150	1050	478-2519-1-ND	.70	6.50	49.00	478-2519-2-ND	1,000	270.00	VC120614D300DP
	18.0	13.0	25.5 ±10%	30	350	478-2520-1-ND	.53	4.88	36.75	478-2520-2-ND	1,000	203.00	VC120618A400DP
	3.3	2.3	5.0 ±20%	150	4700	478-3653-1-ND	.81	7.48	56.35	478-3653-2-ND	1,000	270.00	VC120603D100DP
	18.0	13.0	25.5 ±10%	150	900	478-2521-1-ND	.70	6.50	49.00	478-2521-2-ND	1,000	270.00	VC120618D400DP
	26.0	18.0	34.5 ±10%	120	500	478-2522-1-ND	.70	6.50	49.00	478-2522-2-ND	1,000	270.00	VC120626D580DP
	30.0	21.0	41 ±10%	120	400	478-2523-1-ND	.70	6.50	49.00	478-2523-2-ND	1,000	270.00	VC120630D650DP
	48.0	34.0	62 ±10%	100	225	478-2524-1-ND	.70	6.50	49.00	478-2524-2-ND	1,000	270.00	VC120648D101DP
1210	18.0	13.0	25.5 ±10%	500	3100	478-2525-1-ND	1.09	10.08	75.95	478-2525-2-ND	1,000	419.00	VC121018J390DP
	26.0	18.0	34.5 ±10%	300	2150	478-2526-1-ND	.95	8.78	66.15	478-2526-2-ND	1,000	365.00	VC121026H560DP
	30.0	21.0	39.0 ±10%	280	1975	478-2527-1-ND	.95	8.78	66.15	478-2527-2-ND	1,000	365.00	VC121030H620DP
	48.0	34.0	62 ±10%	250	500	478-2528-1-ND	.95	8.78	66.15	478-2528-2-ND	1,000	365.00	VC121048H101DP
	60.0	42.0	76 ±10%	250	400	478-2529-1-ND	.95	8.78	66.15	478-2529-2-ND	1,000	365.00	VC121060J121DP
	85.0	60.0	100 ±10%	250	275	478-6100-1-ND ***NEW!***	.69	6.44	48.51	478-6100-2-ND ***NEW!***	1,000	267.00	VC121085S151DP

Sub pF Varistors – For High Speed Digital and RF Applications

Features: • Act like back to back diodes with minimized off state EMC Capacitors • Offer small size and reliable performance vs other solutions
Applications: • HDMI ports • RF Decks • Integrated RF PA's • High Fan out digital circuits • High Node count bus devices • Low distortion analog circuits

Size	Working Voltage DC	Typical Break-down Voltage	Typical Leakage Current	Typical Cap. (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 10,000	AVX Part No.
						1	10	100			
0402	10	125V	<10 nA	0.8	478-4709-1-ND	.15	1.37	10.29	478-4709-2-ND	47.00/M	VCH4AG100R8MATWA
	15	125V	<10 nA	0.96	478-4896-1-ND	.15	1.37	10.29	478-4896-2-ND	47.00/M	VCH4AG150R8MATWA
	15	135V	<100 nA	0.47	478-5763-1-ND ***NEW!***	.11	1.04	7.84	478-5763-2-ND ***NEW!***	43.00/M	VCH4AG150R4MATWA

Dimensions in Inches (mm)

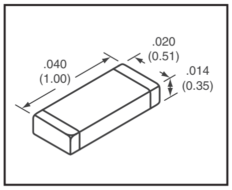

TransGuard Multilayer Ceramic Varistor TVS Axial Lead

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection.

Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching etc.

Size Code	Dimensions (mm) L (Max.)	øD (Max.)
1000	4.32	2.54
2000	4.83	3.56

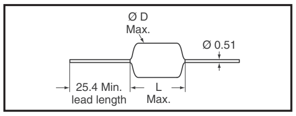

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
	DC	AC					1	10	100			
1000	5.6	4.0	8.5 ±20%	40	1000	478-2487-1-ND	.36	3.20	28.80	478-2487-2-ND	216.00	VA100005A150DL
	5.6	4.0	8.5 ±20%	150	2800	478-2488-1-ND	.41	3.60	32.40	478-2488-2-ND	243.00	VA100005D150DL
	14.0	10.0	18.5 ±12%	40	325	478-2489-1-ND	.36	3.20	28.80	478-2489-2-ND	216.00	VA100014A300DL
	14.0	10.0	18.5 ±12%	150	1100	478-2490-1-ND	.41	3.60	32.40	478-2490-2-ND	243.00	VA100014D300DL
	18.0	13.0	25.5 ±10%	40	350	478-2491-1-ND	.36	3.20	28.80	478-2491-2-ND	216.00	VA100018A400DL
	18.0	13.0	25.5 ±10%	150	900	478-2492-1-ND	.41	3.60	32.40	478-2492-2-ND	243.00	VA100018D400DL
	26.0	18.0	34.5 ±10%	120	650	478-2493-1-ND	.41	3.60	32.40	478-2493-2-ND	243.00	VA100026D580DL
	30.0	21.0	41.0 ±10%	120	550	478-2494-1-ND	.41	3.60	32.40	478-2494-2-ND	243.00	VA100030D650DL
	48.0	34.0	62.0 ±10%	100	200	478-2495-1-ND	.41	3.60	32.40	478-2495-2-ND	243.00	VA100048D101DL
2000	60.0	42.0	76.0 ± 10%	300	400	478-2496-1-ND	.69	6.12	55.08	478-2496-2-ND	413.00	VA200060K121DL

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM SEMICONDUCTOR

ESD Protection Diodes

Digi-Reel® RoHS COMPLIANT

Fig. 1

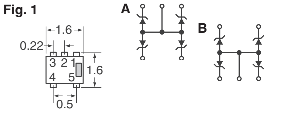

Fig. 2

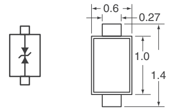

Fig. 3 *NEW!*

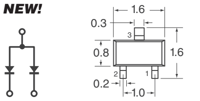

Fig. 4

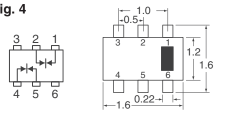

Fig. 5 *NEW!*

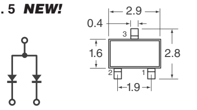

Fig. 6 *NEW!*

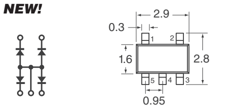

Fig. 7

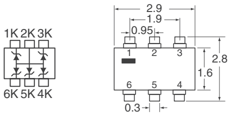

Fig. 8 *NEW!*

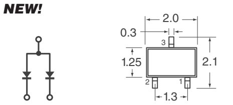

Fig. 9 *NEW!*

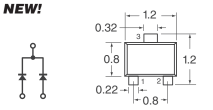

Fig.	Zener Voltage Vz (V) (Maximum)	Reverse Current IR (μA) (Maximum)	Forward Voltage VF (V) (Maximum)	Junction Capacitance Ct (pF) (Typical)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
1A	7.20	1.0	1.0	35	SC-75A	RSA6.1J4T2RCT-ND	.47	.37	.27	RSA6.1J4T2RTR-ND	8,000	116.00/M	RSA6.1J4T2R
1B	7.20	1.0	1.25	90	SOT-353	RSA6.1ENCT-ND	.49	.38	.27	RSA6.1ENTR-ND	3,000	128.00/M	RSA6.1ENTR
2	7.82	0.5	—	15	VMD2	RSB6.8GT2RCT-ND	.46	.36	.26	RSB6.8GT2RTR-ND	8,000	112.00/M	RSB6.8GT2R
2	7.82	0.5	—	30	SOD-523	RSB6.8STE61CT-ND	.49	.38	.27	RSB6.8STE61TR-ND	3,000	128.00/M	RSB6.8STE61
3	6.93	0.5	—	3	EMD3	EMZC6.8NTLCT-ND ***NEW!***	.47	.35	.25	EMZC6.8NTLTR-ND ***NEW!***	3,000	99.00/M	EMZC6.8NTL
3	14.4	0.1	—	1	EMD3	RSB12WTLCT-ND ***NEW!***	.45	.33	.24	RSB12WTLTR-ND ***NEW!***	3,000	95.00/M	RSB12WTL
4	14.4	0.1	—	1	EMD6	RSB12JS2T2RCT-ND	.63	.49	.35	RSB12JS2T2RTR-ND	8,000	154.00/M	RSB12JS2T2R
5	7.14	0.5	—	3	SMD3	STZC6.8NT146CT-ND ***NEW!***	.45	.34	.24	STZC6.8NT146TR-ND ***NEW!***	3,000	95.00/M	STZC6.8NT146
6	6.50	3.0	—	8	SMD5	FTZU6.2ET148CT-ND ***NEW!***	.57	.44	.32	FTZU6.2ET148TR-ND ***NEW!***	3,000	148.00/M	FTZU6.2ET148
7	7.20	1.0	1.25	90	SMD6	RSA6.1U5T108CT-ND	.51	.40	.29	RSA6.1U5T108TR-ND	3,000	133.00/M	RSA6.1U5T108
8	6.50	3.0	—	8	UMD3	UMZU6.2NT106CT-ND ***NEW!***	.40	.30	.21	UMZU6.2NT106TR-ND ***NEW!***	3,000	86.00/M	UMZU6.2NT106
8	7.14	0.5	—	3	UMD3	UMZC6.8NT106CT-ND ***NEW!***	.45	.33	.24	UMZC6.8NT106TR-ND ***NEW!***	3,000	94.00/M	UMZC6.8NT106
9	14.4	0.1	—	1	VMD3	RSB12ZT2LCT-ND ***NEW!***	.43	.32	.23	RSB12ZT2LTR-ND ***NEW!***	8,000	86.00/M	RSB12ZT2L

NEW! Transient Voltage Suppressor

Digi-Reel® RoHS COMPLIANT

Fig.	Package	Reverse Stand-off Voltage (V)	Breakdown Voltage (V)	Power Watts	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Rohm Part No.
						1	25	100	Qty.	Pricing	
1	SOD-106	5.8	6.45	600	RSA5LTE25CT-ND	.78	.63	.47	1,500	268.00/M	RSA5LTE25
	SOD-106	12	13.3	600	RSA12LTE25CT-ND	.78	.63	.47	1,500	268.00/M	RSA12LTE25
	SOD-106	25.6	28.5	600	RSA30LTE25CT-ND	.78	.63	.47	1,500	268.00/M	RSA30LTE25
2	SOD-123	5	6.4	200	RSA5MGCT-ND	.44	.34	.25	3,000	116.00/M	RSA5MGTR
	SOD-123	12	13.3	200	RSA12MGCT-ND	.44	.34	.25	3,000	116.00/M	RSA12MGTR

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

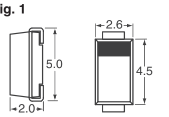

Fig. 2

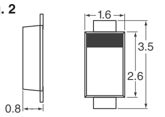

Microsemi. Transient Voltage Suppressor Arrays

Digi-Reel® RoHS COMPLIANT

Fig.	Stand-off Voltage VWM (V) Maximum	Breakdown Voltage VBR @1mA (V) Minimum	Clamping Voltage VC @1 Amp (V) Maximum	Leakage Current ID @VWM (μA) Max.	Capacitance (f-1 MHz) @0V C (pf) Typical	Temperature Coefficient of VBR aVBR (mV/°C) Max.	Peak Pulse Power (Watt)	Digi-Key Part No.	Cut Tape Price Each			Microsemi Part No.
									1	10	100	
SMDA Series, Unidirectional												
1	24	26.7	43	1	90	30 Typical	300	SMDA24E3CT-ND	2.61	2.35	1.96	SMDA24E3/TR7
	24	26.7	43	1	90	30 Typical	300	SMDA24E3TR-ND‡	978.00/500			SMDA24E3/TR7
SMDAxxC Series, Bidirectional												
1	15	16.7	24	1	70	11	300	SMDA15CMSCT-ND	2.98	2.69	2.24	SMDA15C
	15	16.7	24	1	70	11	300	SMDA15CMSTR-ND‡	1117.50/500			SMDA15C
SM16LCxx Series, Unidirectional												
2	5	6	9.8	20	25	1	500	SM16LC05E3MSCT-ND ***NEW!***	8.28	7.46	6.21	SM16LC05E3/TR13
	5	6	9.8	20	25	1	500	SM16LC05E3MSTR-ND‡ ***NEW!***	12937.50/2,500			SM16LC05E3/TR13
	15	16.7	24	2	25	11	300	SM16LC15MSCT-ND	4.85	4.37	3.64	SM16LC15
SMBJxxC Series, Bidirectional												
3	24	26.7	38.9	1	—	—	600	SMBJ24CAMSCT-ND	.72	.65	.54	SMBJ24CA-TRE3
SM Series, Unidirectional												
4	5	6	9.8	20	400 Max.	—	300	SM05E3MSCT-ND	.97	.88	.73	SM05
	5	6	9.8	20	400 Max.	—	300	SM05E3MSTR-ND	1815.00/3,000			SM05
UPT Series, Unidirectional												
5	5	6	9.5	5	—	0.03	1,000	UPT5RE3CT-ND	1.32	1.19	.99	UPT5RE3/TR7
	8	9	13.7	2	—	0.04	1,000	UPT8RE3CT-ND	1.32	1.19	.99	UPT8RE3/TR7
	12	13.8	21.6	1	—	0.05	1,000	UPT12RE3CT-ND	1.32	1.19	.99	UPT12RE3/TR7
	15	16.7	26	1	—	0.055	1,000	UPT15RE3CT-ND	1.32	1.19	.99	UPT15RE3/TR7
	17	19	29.2	1	—	0.06	1,000	UPT17RE3CT-ND	1.32	1.19	.99	UPT17RE3/TR7
	33	36.8	56.7	1	—	0.08	1,000	UPT33RE3CT-ND	1.32	1.19	.99	UPT33RE3/TR7
	33	36.8	56.7	1	—	0.08	1,000	UPT33RE3TR-ND‡	2475.00/3,000			UPT33RE3/TR7
UPTB Series, Bidirectional												
6	15	16.7	26	1	—	0.055	1,000	UPTB15E3CT-ND	1.61	1.45	1.21	UPTB15E3/TR7
	15	16.7	26	1	—	0.055	1,000	UPTB15E3TR-ND‡	3011.25/3,000			UPTB15E3/TR7

‡ Tape and Reel

Fig. 1 – SO-8

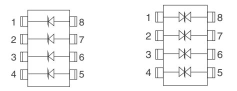

Unidirectional Bidirectional

Fig. 2 – SO-16

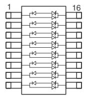

Fig. 3 – SO2014AA

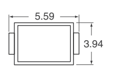

Fig. 4 – SOT-23

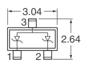

Fig. 5 – POWERMITE

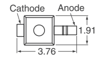

Fig. 6 – POWERMITE

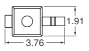

Midcom WÜRTH ELEKTRONIK

NEW! Transient Voltage Suppressor Diode Arrays

RoHS COMPLIANT Digi-Reel®

Features:

- Below 5V operating voltage: 2.5 - 3.3 - 4.2 - 5.0V • Fast turn on and low clamping voltage

Fig.	Package	Stand-off Voltage VWM (V) Max.	Operating SupplyVoltage (V)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Würth Part No.
					1	25	100	Qty.	Pricing	
1	MSOP-8L	5	6	732-2505-1-ND	3.30	2.75	2.34	3,000	963.00/M	82401646
2	MSOP-10L	5	6	732-2504-1-ND	2.52	2.10	1.79	3,000	735.00/M	82401444
3	SOT23-6L	5	6	732-2503-1-ND	2.52	2.10	1.79	3,000	735.00/M	824014

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

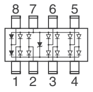

Fig. 2

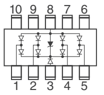

Fig. 3

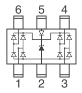

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

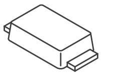
Fig. 1 — PowerDI123

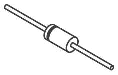
Fig. 2 — DO-15, DO-201

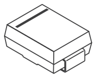
Fig. 3 — SMA, SMB, SMC

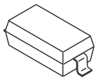
Fig. 4 — SOD-323

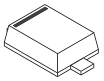
Fig. 5 — SOD-523

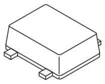
Fig. 6 — SOT-553

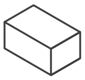
Fig. 7 — 2-DFN ***NEW!***

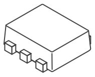
Fig. 8 — SOT-953 ***NEW!***

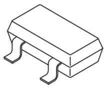
Fig. 9 — SOT-23 ***NEW!***

Breakdown Voltage VBR @ IT			IT (mA)	Reverse Standoff Voltage (VRWM)	Reverse DC Leakage Current @ VRWM (µA)	Watts	Digi-Key Part No.	Cut Tape Pricing			Digi- Key Part No.	Tape and Reel		Diodes Part No.
Min. (V)	Nom. (V)	Max. (V)						1	10	100		Qty.	Pricing	
Fig. 1 — PowerDI123, Unidirectional — RoHS Compliant														
6.4	—	7.00	10	5.0	400	225	DFLT5V0ADICT-ND	.66	5.28	39.60	DFLT5V0ADITR-ND	3,000	186.00/M	DFLT5V0A-7
6.67	—	7.37	10	6.0	400	225	DFLT6V0ADICT-ND	.57	4.53	33.96	—	—	—	DFLT6V0A-7
7.22	—	7.98	10	6.5	250	225	DFLT6V5ADICT-ND	.57	4.53	33.96	—	—	—	DFLT6V5A-7
8.33	—	9.21	1	7.5	50	225	DFLT7V5ADICT-ND	.57	4.53	33.96	—	—	—	DFLT7V5A-7
8.89	—	9.83	1	8.0	25	225	DFLT8V0ADICT-ND	.57	4.53	33.96	—	—	—	DFLT8V0A-7
11.1	—	12.3	1	10	2.5	225	DFLT10ADICT-ND	.66	5.28	39.60	DFLT10ADITR-ND	3,000	186.00/M	DFLT10A-7
12.2	—	13.5	1	11	2.5	225	DFLT11ADICT-ND	.66	5.28	39.60	DFLT11ADITR-ND	3,000	186.00/M	DFLT11A-7
13.3	—	14.7	1	12	2.5	225	DFLT12ADICT-ND	.66	5.28	39.60	DFLT12ADITR-ND	3,000	186.00/M	DFLT12A-7
14.4	—	15.9	1	13	1	225	DFLT13ADICT-ND	.66	5.28	39.60	DFLT13ADITR-ND	3,000	186.00/M	DFLT13A-7
16.7	—	18.5	1	15	1	225	DFLT15ADICT-ND	.66	5.28	39.60	DFLT15ADITR-ND	3,000	186.00/M	DFLT15A-7
18.9	—	20.9	1	17	1	225	DFLT17ADICT-ND	.66	5.28	39.60	DFLT17ADITR-ND	3,000	186.00/M	DFLT17A-7
20.0	—	22.1	1	18	1	225	DFLT18ADICT-ND	.66	5.28	39.60	DFLT18ADITR-ND	3,000	186.00/M	DFLT18A-7
26.7	—	29.5	1	24	1	225	DFLT24ADICT-ND	.57	4.53	33.96	—	—	—	DFLT24A-7
30	—	33.15	1	27	1	225	DFLT27ADICT-ND	.66	5.28	39.60	DFLT27ADITR-ND	3,000	186.00/M	DFLT27A-7
40.0	—	44.2	1	36	1	225	DFLT36ADICT-ND	.66	5.28	39.60	DFLT36ADITR-ND	3,000	186.00/M	DFLT36A-7
44.4	—	49.1	1	40	1	225	DFLT40ADICT-ND	.66	5.28	39.60	DFLT40ADITR-ND	3,000	186.00/M	DFLT40A-7
56.7	—	62.7	1	51	1	225	DFLT51ADICT-ND	.79	6.84	54.00	DFLT51ADITR-ND	3,000	261.00/M	DFLT51A-7
Fig. 2 — DO-15, Unidirectional — RoHS Compliant														
6.67	—	7.37	10	6.0	600	500	SA6V0ADICT-ND	.44	3.51	26.32	—	—	—	SA6V0ADI
13.3	—	14.7	1	12	3	500	SA12ADICT-ND	.44	3.51	26.32	—	—	—	SA12ADI
16.7	—	18.5	1	15	3	500	SA15ADICT-ND	.44	3.51	26.32	—	—	—	SA15ADI
22.2	—	24.5	1	20	3	500	SA20ADICT-ND	.44	3.51	26.32	—	—	—	SA20ADI
6.45	—	7.14	10	5.8	1000	600	P6KE6V8A-TDICT-ND ***NEW!***	.51	4.09	30.69	P6KE6V8A-TDITR-ND ***NEW!***	4,000	144.00/M	P6KE6V8A-T
7.13	7.5	7.88	10	6.4	500	600	P6KE7V5ADICT-ND	.51	4.09	30.69	P6KE7V5ADITR-ND	4,000	144.15/M	P6KE7.5A
7.79	—	8.61	10	7.02	200	600	P6KE8V2CA-TDICT-ND ***NEW!***	.52	4.19	31.41	—	—	—	P6KE8V2CA-T
9.5	10.0	10.5	1	8.55	10	600	P6KE10ADICT-ND	.44	3.51	26.32	—	—	—	P6KE10A
11.4	12.0	12.6	1	10.2	5	600	P6KE12ADICT-ND	.51	4.09	30.69	P6KE12ADITR-ND	4,000	144.15/M	P6KE12A
14.3	15.0	15.8	1	12.8	5	600	P6KE15ADICT-ND	.51	4.09	30.69	P6KE15ADITR-ND	4,000	144.15/M	P6KE15A
19.0	20.0	21.0	1	17.1	5	600	P6KE20ADICT-ND	.51	4.09	30.69	P6KE20ADITR-ND	4,000	144.15/M	P6KE20A
22.8	24.0	25.2	1	20.5	5	600	P6KE24ADICT-ND	.51	4.09	30.69	P6KE24ADITR-ND	4,000	144.15/M	P6KE24A
25.7	27.0	28.4	1	23.1	5	600	P6KE27ADICT-ND	.51	4.09	30.69	P6KE27ADITR-ND	4,000	144.15/M	P6KE27A
28.5	30.0	31.5	1	25.5	5	600	P6KE30ADICT-ND	.51	4.09	30.69	P6KE30ADITR-ND	4,000	144.15/M	P6KE30A
31.4	33.0	34.7	1	28.2	5	600	P6KE33ADICT-ND	.51	4.09	30.69	P6KE33ADITR-ND	4,000	144.15/M	P6KE33A
48.5	51.0	53.6	1	43.6	5	600	P6KE51ADICT-ND	.51	4.09	30.69	P6KE51ADITR-ND	4,000	144.15/M	P6KE51A
64.6	68.0	71.4	1	58.1	5	600	P6KE68ADICT-ND	.44	3.51	26.32	—	—	—	P6KE68A
Fig. 2 — DO-15, Bidirectional														
6.67	—	7.37	10	6.0	600	500	SA6V0CADICT-ND◆	.52	4.19	31.41	—	—	—	SA6.0CADI
7.22	—	7.98	10	6.5	400	500	SA6V5CADICT-ND◆	.52	4.19	31.41	—	—	—	SA6.5CADI
11.1	—	12.3	1	10	3	500	SA10CADICT-ND◆	.52	4.19	31.41	—	—	—	SA10CADI
16.7	—	18.5	1	15	3	500	SA15CADICT-ND◆	.52	4.19	31.41	—	—	—	SA15CADI
22.2	—	24.5	1	20	3	500	SA20CADICT-ND◆	.52	4.19	31.41	—	—	—	SA20CADI
33.3	—	36.8	1	30	3	500	SA30CADICT-ND◆	.52	4.19	31.41	—	—	—	SA30CADI
7.13	7.5	7.88	10	6.4	500	600	P6KE7V5CADICT-ND◆	.52	4.19	31.41	—	—	—	P6KE7V5CA-T
7.79	8.2	8.61	10	7.02	200	600	P6KE8V2CA-TDICT-ND	.52	4.19	31.41	—	—	—	P6KE8.2CA
9.5	10.0	10.5	1	8.55	10	600	P6KE10CADICT-ND◆	.61	4.88	36.63	P6KE10CADITR-ND◆	4,000	172.05/M	P6KE10CA
11.4	12.0	12.6	1	10.2	5	600	P6KE12CADICT-ND◆	.61	4.88	36.63	P6KE12CADITR-ND◆	4,000	172.05/M	P6KE12CA
14.3	15.0	15.8	1	12.8	5	600	P6KE15CADICT-ND◆	.61	4.88	36.63	P6KE15CADITR-ND◆	4,000	172.05/M	P6KE15CA
19.0	20.0	21.0	1	17.1	5	600	P6KE20CADICT-ND◆	.61	4.88	36.63	P6KE20CADITR-ND◆	4,000	172.05/M	P6KE20CA
22.8	24.0	25.2	1	20.5	5	600	P6KE24CADICT-ND◆	.61	4.88	36.63	P6KE24CADITR-ND◆	4,000	172.05/M	P6KE24CA
25.7	27.0	28.4	1	23.1	5	600	P6KE27CADICT-ND◆	.61	4.88	36.63	P6KE27CADITR-ND◆	4,000	172.05/M	P6KE27CA
28.5	30.0	31.5	1	25.5	5	600	P6KE30CADICT-ND◆	.61	4.88	36.63	P6KE30CADITR-ND◆	4,000	172.05/M	P6KE30CA
31.4	33.0	34.7	1	28.2	5	600	P6KE33CADICT-ND◆	.61	4.88	36.63	P6KE33CADITR-ND◆	4,000	172.05/M	P6KE33CA
48.5	51.0	53.6	1	43.6	5	600	P6KE51CADICT-ND◆	.61	4.88	36.63	P6KE51CADITR-ND◆	4,000	172.05/M	P6KE51CA
64.6	68.0	71.4	1	58.1	5	600	P6KE68CADICT-ND◆	.61	4.88	36.63	P6KE68CADITR-ND◆	4,000	172.05/M	P6KE68CA
143.0	150.0	158.0	1	128.0	5	600	P6KE150CADICT-ND◆	.61	4.88	36.63	P6KE150CADITR-ND◆	4,000	172.05/M	P6KE150CA
Fig. 2 — DO-201, Unidirectional — RoHS Compliant														
6.45	6.8	7.14	10	5.8	1000	1500	1.5KE6V8ADICT-ND	.76	6.57	51.90	1.5KE6V8ADITR-ND	1,000	276.80	1.5KE6V8A-T
7.13	7.5	7.88	10	6.4	500	1500	1.5KE7V5ADICT-ND	.65	5.65	44.58	—	—	—	1.5KE7.5A
7.79	8.2	8.61	10	7.02	200	1500	1.5KE8.2ADICT-ND	.76	6.57	51.90	1.5KE8.2ADITR-ND	1,000	276.80	1.5KE8.2A
9.5	10.0	10.5	1	8.55	10	1500	1.5KE10ADICT-ND	.76	6.57	51.90	1.5KE10ADITR-ND	1,000	276.80	1.5KE10A
11.4	12.0	12.6	1	10.2	5	1500	1.5KE12ADICT-ND	.76	6.57	51.90	1.5KE12ADITR-ND	1,000	276.80	1.5KE12A
14.3	15.0	15.8	1	12.8	5	1500	1.5KE15ADICT-ND	.76	6.57	51.90	1.5KE15ADITR-ND	1,000	276.80	1.5KE15A
19.0	20.0	21.0	1	17.1	5	1500	1.5KE20ADICT-ND	.76	6.57	51.90	1.5KE20ADITR-ND	1,000	276.80	1.5KE20A
22.8	24.0	25.2	1	20.5	5	1500	1.5KE24ADICT-ND	.76	6.57	51.90	1.5KE24ADITR-ND	1,000	276.80	1.5KE24A
25.7	27.0	28.4	1	23.1	5	1500	1.5KE27ADICT-ND	.76	6.57	51.90	1.5KE27ADITR-ND	1,000	276.80	1.5KE27A
28.5	30.0	31.5	1	25.5	5	1500	1.5KE30ADICT-ND	.76	6.57	51.90	1.5KE30ADITR-ND	1,000	276.80	1.5KE30A
31.4	33.0	34.7	1	28.2	5	1500	1.5KE33ADICT-ND	.76	6.57	51.90	1.5KE33ADITR-ND	1,000	276.80	1.5KE33A
48.5	51.0	53.6	1	43.6	5	1500	1.5KE51ADICT-ND	.76	6.57	51.90	1.5KE51ADITR-ND	1,000	276.80	1.5KE51A
64.6	68.0	71.4	1	58.1	5	1500	1.5KE68ADICT-ND	.76	6.57	51.90	1.5KE68ADITR-ND	1,000	276.80	1.5KE68A
Fig. 2 — DO-201, Bidirectional — RoHS Compliant														
6.45	6.8	7.14	10	5.8	1000	1500	1.5KE6V8CADICT-ND	.82	7.07	55.80	1.5KE6V8CADITR-ND	1,000	297.60	1.5KE6.8CA
7.13	7.5	7.88	10	6.4	500	1500	1.5KE7V5CADICT-ND	.82	7.07	55.80	1.5KE7V5CADITR-ND	1,000	297.60	1.5KE7V5CA-T
7.79	8.2	8.61	10	7.02	200	1500	1.5KE8.2CADICT-ND	.82	7.07	55.80	1.5KE8.2CADITR-ND	1,000	297.60	1.5KE8.2CA
9.5	10.0	10.5	1	8.55	10	1500	1.5KE10CADICT-ND	.82	7.07	55.80	1.5KE10CADITR-ND	1,000	297.60	1.5KE10CA
11.4	12.0	12.6	1	10.2	5	1500	1.5KE12CADICT-ND	.82	7.07	55.80	1.5KE12CADITR-ND	1,000	297.60	1.5KE12CA
14.3	15.0	15.8	1	12.8	5	1500	1.5KE15CADICT-ND	.82	7.07	55.80	1.5KE15CADITR-ND	1,000	297.60	1.5KE15CA
19.0	20.0	21.0	1	17.1	5	1500	1.5KE20CADICT-ND	.82	7.07	55.80	1.5KE20CADITR-ND	1,000	297.60	1.5KE20CA
22.8	24.0	25.2	1	20.5	5	1500	1.5KE24CADICT-ND	.82	7.07	55.80	1.5KE24CADITR-ND	1,000	297.60	1.5KE24CA
25.7	27.0	28.4	1	23.1	5	1500	1.5KE27CADICT-ND	.82	7.07	55.80	1.5KE27CADITR-ND	1,000	297.60	1.5KE27CA
28.5	30.0	31.5	1	25.5	5	1500	1.5KE30CADICT-ND	.82	7.07	55.80	1.5KE30CADITR-ND	1,000	297.60	1.5KE30CA
31.4	33.0	34.7	1	28.2	5	1500	1.5KE33CADICT-ND	.82	7.07	55.80	1.5KE33CADITR-ND	1,000	297.60	1.5KE33CA
48.5	51.0	53.6	1	43.6	5	1500	1.5KE51CADICT-ND	.82	7.07	55.80	1.5KE51CADITR-ND	1,000	297.60	1.5KE51CA
64.6	68.0	71.4	1	58.1	5	1500	1.5KE68CADICT-ND	.82	7.07	55.80	1.5KE68CADITR-ND	1,000	297.60	1.5KE68CA
95.0	100.0	105.0	1	85.5	5	1500	1.5KE100CADICT-ND	.82	7.07	55.80	1.5KE100CADITR-ND	1,000	297.60	1.5KE100CA
143.0	150.0	158.0	1	128.0	5	1500	1.5KE150CADICT-ND	.82	7.07	55.80	1.5KE150CADITR-ND	1,000	297.60	1.5KE150CA

◆ *RoHS Compliant*

(Continued)

Transient Voltage Suppressors *(Cont.)*

Breakdown Voltage VBR @ IT			IT (mA)	Reverse Standoff Voltage (VRWM)	Reverse DC Leakage Current @ VRWM (µA)	Watts	Digi-Key Part No.	Cut Tape Pricing			Digi- Key Part No.	Tape and Reel		Diodes Part No.
Min. (V)	Nom. (V)	Max. (V)						1	10	100		Qty.	Pricing	
NEW! Fig. 3 — SMA, Unidirectional — RoHS Compliant NEW!														
64.4	—	71.2	1	58	5.0	400	SMAJ58A-13-FDICT-ND	.54	4.28	29.25	SMAJ58A-13-FDITR-ND	5,000	116.00/M	SMAJ58A-13-F
NEW! Fig. 3 — SMB, Unidirectional — RoHS Compliant NEW!														
77.8	—	89.5	1	70	5.0	600	SMBT70A-13-FDICT-ND	.72	5.72	42.90	SMBT70A-13-FDITR-ND	3,000	202.00/M	SMBT70A-13-F
Fig. 3 — SMC, Unidirectional — RoHS Compliant														
6.40	—	7.07	10	5.0	1000	3000	3.0SMCJ5.0ADICT-ND	1.67	14.96	118.80	3.0SMCJ5.0ADITR-ND	3,000	616.00/M	3.0SMCJ5.0A-13
22.20	—	24.5	1	20.0	5.0	3000	3.0SMCJ20ADICT-ND	1.06	9.52	75.60	3.0SMCJ20ADITR-ND	3,000	392.00/M	3.0SMCJ20A-13
24.40	—	27.0	1	22.0	5.0	3000	3.0SMCJ22ADICT-ND	1.67	14.96	118.80	3.0SMCJ22ADITR-ND	3,000	616.00/M	3.0SMCJ22A-13
26.70	—	29.5	1	24.0	5.0	3000	3.0SMCJ24ADICT-ND	1.67	14.96	118.80	3.0SMCJ24ADITR-ND	3,000	616.00/M	3.0SMCJ24A-13
31.10	—	34.4	1	28.0	5.0	3000	3.0SMCJ28ADICT-ND	1.67	14.96	118.80	3.0SMCJ28ADITR-ND	3,000	616.00/M	3.0SMCJ28A-13
33.30	—	36.8	1	30.0	5.0	3000	3.0SMCJ30ADICT-ND	1.67	14.96	118.80	3.0SMCJ30ADITR-ND	3,000	616.00/M	3.0SMCJ30A-13
64.40	—	71.2	1	58.0	5.0	3000	3.0SMCJ58ADICT-ND	1.67	14.96	118.80	3.0SMCJ58ADITR-ND	3,000	616.00/M	3.0SMCJ58A-13
Fig. 4 — SOD-323, Unidirectional — RoHS Compliant														
6.2	—	7.3	1	5.0	10	350	SD05DICT-ND	.45	3.20	19.20	SD05DITR-ND	3,000	64.00/M	SD05-7
Fig. 5 — SOD-523, Unidirectional — RoHS Compliant														
6.2	—	—	1	5.0	0.05	260	T5V0S5DICT-ND	.44	3.42	23.40	T5V0S5DITR-ND	3,000	99.00/M	T5V0S5-7
14.1	—	—	1	12	0.01	300	T12S5DICT-ND	.54	4.28	29.25	T12S5DITR-ND	3,000	124.00/M	T12S5-7
Fig. 6 — SOT-553, TVS Array — RoHS Compliant														
5.3	5.6	5.9	1	3.0	1	20	DZQA5V6AXV5DICT-ND	.44	3.42	23.40	DZQA5V6AXV5DITR-ND	3,000	99.00/M	DZQA5V6AXV5-7
6.47	6.8	7.14	1	4.3	1	20	DZQA6V8AXV5-7DICT-ND ***NEW!***	.44	3.42	23.40	DZQA6V8AXV5-7DITR-ND ***NEW!***	3,000	99.00/M	DZQA6V8AXV5-7
NEW! Fig. 7 — 2 DFN, Unidirectional — RoHS Compliant NEW!														
6.4	—	7.2	5	5.0	0.5	85	TPD6V8LP-7DICT-ND	.44	3.42	23.40	TPD6V8LP-7DITR-ND	3,000	99.00/M	TPD6V8LP-7
NEW! Fig. 8 — SOT-953 — RoHS Compliant NEW!														
11.4	12	12.7	5	9.0	0.5	18	DUP412VP5-7DICT-ND	.62	4.85	33.15	DUP412VP5-7DITR-ND	10,000	123.00/M	DUP412VP5-7
NEW! Fig. 9 — SOT-23 — RoHS Compliant NEW!														
6.2	—	7.3	1	5.0	10	300	SM05-7DICT-ND	.59	4.20	25.20	SM05-7DITR-ND	3,000	84.00/M	SM05-7

◆ ***RoHS Compliant***

SMB Bi-Directional Thyristor Surge Protection Device

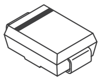

Features: • 58V - 320V Stand-Off Voltages • Oxide-Glass Passivated Junction • Bidirectional protection in a single device • High Off-State Impedance and Low On-State Voltage **Mechanical Data: • Case:** SMB, Molded plastic **• Case Material:** UL Flammability Classification Rating 94V-0

Non-Repetitive Peak Impulse Current (A) 10/1000µs	Rated Repetitive Off-State Volt. VDRM (V)	Off-State Leakage Current @ VDRM IDRM (µA)	Breakover Voltage VBO (V)	Holding Current IH (mA)		Off-State Capac-itance Co (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Diodes Part No.
				Min.	Max.			1	10	100			
30	58	5	77	150	800	100	TB0640L-FDICT-ND◆	1.06	.96	.76	TB0640L-FDITR-ND◆	392.00/M	TB0640L-13-F
	65	5	88	150	800	100	TB0720L-FDICT-ND◆	1.06	.96	.76	TB0720L-FDITR-ND◆	392.00/M	TB0720L-13-F
	75	5	98	150	800	100	TB0900LDICT-ND	.92	.82	.66	—	—	TB0900L-13
	75	5	98	150	800	100	TB0900L-FDICT-ND◆	1.06	.96	.76	TB0900L-FDITR-ND◆	392.00/M	TB0900L-13-F
	90	5	130	150	800	60	TB1100LDICT-ND	.92	.82	.66	—	—	TB1100L-13
	90	5	130	150	800	60	TB1100L-FDICT-ND◆	1.06	.96	.76	TB1100L-FDITR-ND◆	392.00/M	TB1100L-13-F
	120	5	160	150	800	60	TB1300L-FDICT-ND◆	.92	.82	.66	—	—	TB1300L-13-F
	140	5	180	150	800	60	TB1500LDICT-ND	.92	.82	.66	—	—	TB1500L-13
	140	5	180	150	800	60	TB1500L-FDICT-ND◆	1.06	.96	.76	TB1500L-FDITR-ND◆	392.00/M	TB1500L-13-F
	160	5	220	150	800	60	TB1800LDICT-ND	.92	.82	.66	—	—	TB1800L-13
	160	5	220	150	800	60	TB1800L-FDICT-ND◆	.92	.82	.66	—	—	TB1800L-13-F
	190	5	265	150	800	40	TB2300LDICT-ND	.92	.82	.66	—	—	TB2300L-13
	190	5	265	150	800	40	TB2300L-FDICT-ND◆	1.06	.96	.76	TB2300L-FDITR-ND◆	392.00/M	TB2300L-13-F
	220	5	300	150	800	40	TB2600LDICT-ND	.92	.82	.66	—	—	TB2600L-13
	220	5	300	150	800	40	TB2600L-FDICT-ND◆	1.06	.96	.76	TB2600L-FDITR-ND◆	392.00/M	TB2600L-13-F
	275	5	350	150	800	40	TB3100LDICT-ND	.92	.82	.66	—	—	TB3100L-13
	275	5	350	150	800	40	TB3100L-FDICT-ND◆	1.06	.96	.76	TB3100L-FDITR-ND◆	392.00/M	TB3100L-13-F
	320	5	400	150	800	40	TB3500LDICT-ND	.92	.82	.66	—	—	TB3500L-13
	320	5	400	150	800	40	TB3500L-FDICT-ND◆	.92	.82	.66	—	—	TB3500L-13-F
50	58	5	77	150	800	140	TB0640MDICT-ND	.98	.88	.70	—	—	TB0640M-13
	58	5	77	150	800	140	TB0640M-FDICT-ND◆	1.14	1.02	.81	TB0640M-FDITR-ND◆	420.00/M	TB0640M-13-F
	65	5	88	150	800	140	TB0720MDICT-ND	.98	.88	.70	—	—	TB0720M-13
	65	5	88	150	800	140	TB0720M-FDICT-ND◆	1.14	1.02	.81	TB0720M-FDITR-ND◆	420.00/M	TB0720M-13-F
	75	5	98	150	800	140	TB0900M-FDICT-ND◆	1.14	1.02	.81	TB0900M-FDITR-ND◆	420.00/M	TB0900M-13-F
	90	5	130	150	800	90	TB1100M-FDICT-ND◆	1.14	1.02	.81	TB1100M-FDITR-ND◆	420.00/M	TB01100M-13-F
	120	5	160	150	800	90	TB1300M-FDICT-ND◆	1.14	1.02	.81	TB1300M-FDITR-ND◆	420.00/M	TB1300M-13-F
	140	5	180	150	800	90	TB1500MDICT-ND	.98	.88	.70	—	—	TB1500M-13
	140	5	180	150	800	90	TB1500M-FDICT-ND◆	1.14	1.02	.81	TB1500M-FDITR-ND◆	420.00/M	TB1500M-13-F
	160	5	220	150	800	90	TB1800MDICT-ND	.98	.88	.70	—	—	TB1800M-13
	160	5	220	150	800	90	TB1800M-FDICT-ND◆	1.14	1.02	.81	TB1800M-FDITR-ND◆	420.00/M	TB1800M-13-F
	190	5	265	150	800	60	TB2300MDICT-ND	.98	.88	.70	—	—	TB2300M-13
	190	5	265	150	800	60	TB2300M-FDICT-ND◆	1.14	1.02	.81	TB2300M-FDITR-ND◆	420.00/M	TB2300M-13-F
	220	5	300	150	800	60	TB2600MDICT-ND	.98	.88	.70	—	—	TB2600M-13
	220	5	300	150	800	60	TB2600M-FDICT-ND◆	1.14	1.02	.81	TB2600M-FDITR-ND◆	420.00/M	TB2600M-13-F
	275	5	350	150	800	60	TB3100MDICT-ND	.98	.88	.70	—	—	TB3100M-13
	275	5	350	150	800	60	TB3100M-FDICT-ND◆	1.14	1.02	.81	TB3100M-FDITR-ND◆	420.00/M	TB3100M-13-F
	320	5	400	150	800	60	TB3500MDICT-ND	.98	.88	.70	—	—	TB3500M-13
	320	5	400	150	800	60	TB3500M-FDICT-ND◆	1.14	1.02	.81	TB3500M-FDITR-ND◆	420.00/M	TB3500M-13-F
100	58	5	77	150	800	200	TB0640HDICT-ND	1.08	.97	.77	—	—	TB0640H-13
	58	5	77	150	800	200	TB0640H-FDICT-ND◆	1.25	1.13	.90	TB0640H-FDITR-ND◆	462.00/M	TB0640H-13-F
	65	5	88	150	800	200	TB0720H-FDICT-ND◆	1.08	.97	.77	—	—	TB0720H-13-F
	75	5	98	150	800	200	TB0900HDICT-ND	1.08	.97	.77	—	—	TB0900H-13
	75	5	98	150	800	200	TB0900H-FDICT-ND◆	1.25	1.13	.90	TB0900H-FDITR-ND◆	462.00/M	TB0900H-13-F
	90	5	130	150	800	120	TB1100H-FDICT-ND◆	1.25	1.13	.90	TB1100H-FDITR-ND◆	462.00/M	TB1100H-13-F
	120	5	160	150	800	120	TB1300HDICT-ND	1.08	.97	.77	—	—	TB1300H-13
	120	5	160	150	800	120	TB1300H-FDICT-ND◆	1.25	1.13	.90	TB1300H-FDITR-ND◆	462.00/M	TB1300H-13-F
	140	5	180	150	800	120	TB1500HDICT-ND	1.08	.97	.77	—	—	TB1500H-13
	140	5	180	150	800	120	TB1500H-FDICT-ND◆	1.25	1.13	.90	TB1500H-FDITR-ND◆	462.00/M	TB1500H-13-F
	160	5	220	150	800	120	TB1800HDICT-ND	1.08	.97	.77	—	—	TB1800H-13
	160	5	220	150	800	120	TB1800H-FDICT-ND◆	1.25	1.13	.90	TB1800H-FDITR-ND◆	462.00/M	TB1800H-13-F
	190	5	265	150	800	80	TB2300HDICT-ND	1.08	.97	.77	—	—	TB2300H-13
	190	5	265	150	800	80	TB2300H-FDICT-ND◆	1.25	1.13	.90	TB2300H-FDITR-ND◆	462.00/M	TB2300H-13-F
	220	5	300	150	800	80	TB2600HDICT-ND	1.08	.97	.77	—	—	TB2600H-13
	220	5	300	150	800	80	TB2600H-FDICT-ND◆	1.25	1.13	.90	TB2600H-FDITR-ND◆	462.00/M	TB2600H-13-F
	275	5	350	150	800	80	TB3100HDICT-ND	1.08	.97	.77	—	—	TB3100H-13
	275	5	350	150	800	80	TB3100H-FDICT-ND◆	1.25	1.13	.90	TB3100H-FDITR-ND◆	462.00/M	TB3100H-13-F
	320	5	400	150	800	80	TB3500HDICT-ND	1.08	.97	.77	—	—	TB3500H-13
	320	5	400	150	800	80	TB3500H-FDICT-ND◆	1.25	1.13	.90	TB3500H-FDITR-ND◆	462.00/M	TB3500H-13-F

◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMA 400 Watt Surface Mount TVS Uni-Directional

Features:

- 400W Peak Pulse Power Dissipation • 70V Stand-Off Voltage • 100V Maximum Clamping Voltage, a requirement of many -48V backplane telecom applications • Glass Passivated Die Construction • Fast Response Time: Typically less than one ps

Mechanical Data:

- **Plastic Case Material:**

UL Flammability Classification Rating 94V-0

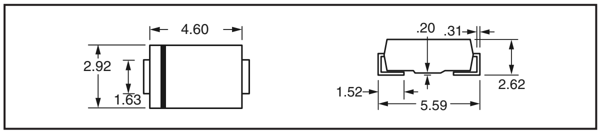

Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min. (V)	Max. (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Maximum Clamping Voltage @ Ipp Vc (V)	Maximum Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
70	77.8	89.5	1.0	5.0	100	3.5	55	SMAT70A-FDICT-ND	.75	6.46	51.00	SMAT70A-FDITR-ND	229.50/M

300 Watt Low Capacitance Uni-Directional TVS

Features:

- 300W Peak Pulse Power (tp=8x20µs) • Transient protection for data, signal, and Vcc bus to IEC61000-4-2 level 4 (ESD) and IEC 61000-4-4 (EFT) • Low Capacitance, typical <2 pF • Low Leakage Current • Uni-directional configuration • Surface mount package ideally suited for automatic insertion

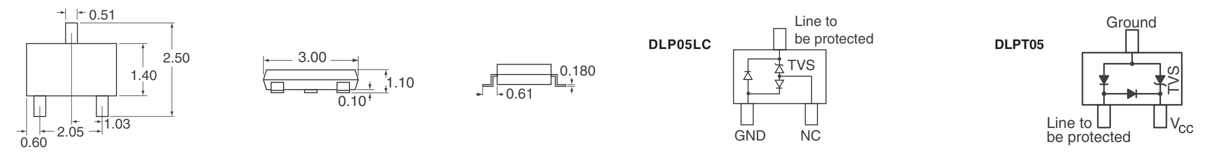

Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min. (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Maximum Clamping Voltage @ Ipp Vc (V)	Maximum Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5	6.0	1.0	20	11.0	17	1.6	DLP05LC-FDICT-ND	.58	4.56	31.20	DLP05LC-FDITR-ND	132.00/M
5	6.0	1.0	20	9.8	17	1.9	DLPT05-FDICT-ND	.54	4.28	29.25	DLPT05-FDITR-ND	123.75/M

NEW! 260 Watt Surface Mount TVS Uni-Directional

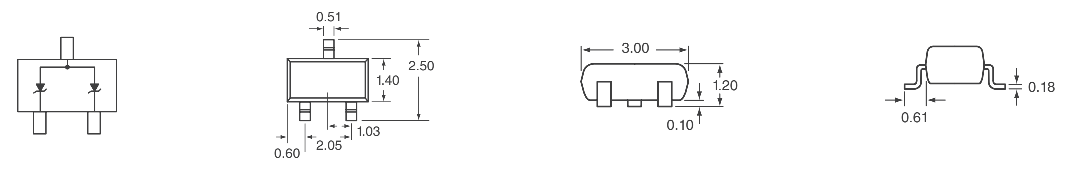

Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min. (V)	Max. (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Maximum Clamping Voltage @ Ipp Vc (V)	Maximum Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.2	6.4	7.2	5.0	1.0	9	15	165	DESD5V2S2UT-7DICT-ND	.56	3.98	26.50	DESD5V2S2UT-7DITR-ND	95.00/M

Dual Surface Mount TVS

Features: • Dual TVS in common anode and cathode configuration • 0.3W/40W Peak Power Dissipation Rating @ 1.0ms (Uni-directional) • Ideally suited for automatic insertion • 225-300mW Power Dissipation

Mechanical Data: • **Case**: SOT-23, Molded plastic • **Case Material**: UL Flammability Classification Rating 94V-0 • **Terminals**: Solderable per MIL-STD-202, Method 208

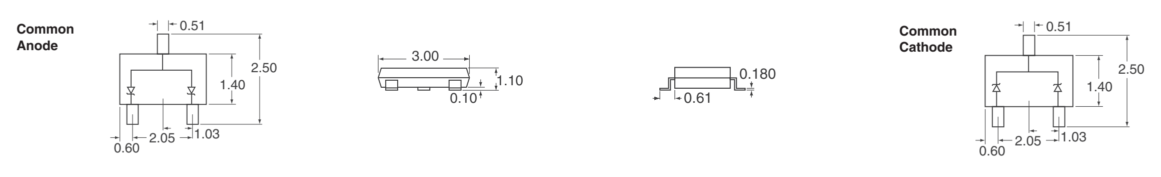

Peak Power Dissipation	VRWM (V)	IR @ VRWM (µA)	Breakdown Voltage VBR (V) Min.	Nom.	Max.	@ IT (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Common Anode												
24W	3	5.0	5.32	5.6	5.88	20	MMBZ5V6AL-FDICT-ND◆	.44	3.42	23.40	MMBZ5V6AL-FDITR-ND◆	99.00/M
	3	0.5	5.89	6.2	6.51	1.0	MMBZ6V2AL-FDICT-ND◆	.42	3.00	18.00	MMBZ6V2AL-FDITR-ND◆	60.00/M
	4.5	0.5	6.46	6.8	7.14	1.0	MMBZ6V8AL-FDICT-ND◆	.42	3.00	18.00	MMBZ6V8AL-FDITR-ND◆	60.00/M
	6.0	0.3	8.65	9.1	9.56	1.0	MMBZ9V1AL-FDICT-ND◆	.42	3.00	18.00	MMBZ9V1AL-FDITR-ND◆	60.00/M
	6.5	0.3	9.50	10	10.5	1.0	MMBZ10VAL-FDICT-ND◆	.42	3.00	18.00	MMBZ10VAL-FDITR-ND◆	60.00/M
40W	12	.05	14.25	15	15.75	1.0	MMBZ15VAL-FDICT-ND◆	.42	3.00	18.00	MMBZ15VAL-FDITR-ND◆	60.00/M
	14.5	.05	17.10	18	18.90	1.0	MMBZ18VAL-FDICT-ND◆	.42	3.00	18.00	MMBZ18VAL-FDITR-ND◆	60.00/M
	17	.05	19.00	20	21.00	1.0	MMBZ20VALDICT-ND	.47	3.77	28.30	—	—
	17	.05	19.00	20	21.00	1.0	MMBZ20VAL-FDICT-ND◆	.42	3.00	18.00	MMBZ20VAL-FDITR-ND◆	60.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VAL-FDICT-ND◆	.55	4.40	33.00	MMBZ27VAL-FDITR-ND◆	155.00/M
	26	.05	31.35	33	34.65	1.0	MMBZ33VAL-FDICT-ND◆	.42	3.00	18.00	MMBZ33VAL-FDITR-ND◆	60.00/M
Common Cathode — RoHS Compliant												
40W	12.8	0.1	14.3	15	15.8	1.0	MMBZ15VDL-FDICT-ND	.42	3.00	18.00	MMBZ15VDL-FDITR-ND	60.00/M
	27	.05	25.65	27	28.35	1.0	MMBZ27VCL-FDICT-ND	.42	3.00	18.00	MMBZ27VCL-FDITR-ND	60.00/M

◆ *RoHS Compliant*

SMAJ (J-Bend) 400 Watt Surface Mount TVS

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Breakdown Voltage (VBR) Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.25	800
Uni/Bi	6.0	6.67	7.37	800
Uni/Bi	6.5	7.22	7.98	500
Uni/Bi	7.0	7.78	8.60	200
Uni/Bi	7.5	8.33	9.21	100
Uni/Bi	8.0	8.89	9.83	50
Uni/Bi	8.5	9.44	10.4	10
Uni/Bi	9.0	10.0	11.1	5.0
Uni/Bi	10	11.1	12.3	5.0
Uni/Bi	11	12.2	13.5	5.0
Uni/Bi	12	13.3	14.7	5.0
Bi	13	14.4	15.9	5.0
Uni/Bi	14	15.6	17.2	5.0
Uni/Bi	15	16.7	18.5	5.0
Uni/Bi	16	17.8	19.7	5.0
Uni/Bi	17	18.9	20.9	5.0
Uni/Bi	18	20.0	22.1	5.0
Uni/Bi	20	22.2	24.5	5.0
Uni/Bi	22	24.4	26.9	5.0
Uni/Bi	24	26.7	29.5	5.0
Uni/Bi	26	28.9	31.9	5.0
Uni/Bi	28	31.1	34.4	5.0
Uni/Bi	30	33.3	36.8	5.0
Uni/Bi	33	36.7	40.6	5.0
Uni/Bi	36	40.0	44.2	5.0
Uni/Bi	40	44.4	49.1	5.0
Uni/Bi	43	47.8	52.8	5.0
Uni/Bi	45	50.0	55.3	5.0
Uni/Bi	48	53.3	58.9	5.0
Uni/Bi	60	66.7	73.7	5.0
Uni/Bi	64	71.1	78.6	5.0
Uni/Bi	70	77.8	86.0	5.0
Uni/Bi	75	83.3	92.1	5.0
Uni/Bi	78	86.7	95.8	5.0
Uni/Bi	85	94.4	104	5.0
Uni/Bi	90	100	111	5.0
Uni/Bi	100	111	123	5.0
Uni/Bi	110	122	135	5.0
Uni/Bi	120	133	147	5.0
Uni/Bi	130	144	159	5.0
Uni/Bi	150	167	185	5.0
Uni/Bi	160	178	197	5.0
Uni/Bi	170	189	209	5.0

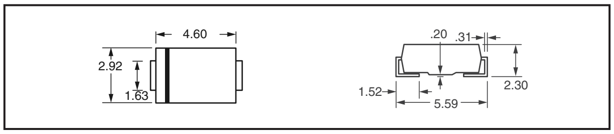

Features:

• 400W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version; Bi = Only available in Bi-directional version • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMA, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Price Each 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000
Uni-Directional						
7.0 ~ 150	SMAJ**(Value)**ADICT-ND	.64	.56	.44	—	—
5.0 ~ 170	SMAJ**(Value)**A-FDICT-ND◆	.75	.65	.51	SMAJ**(Value)**A-FDITR-ND◆	229.50/M
Bi-Directional — RoHS Compliant						
5.0 ~ 170	SMAJ**(Value)**CA-FDICT-ND	.84	.73	.57	SMAJ**(Value)**CA-FDITR-ND◆	256.50/M

◆ ***RoHS Compliant*** † For complete part number, substitute (Value) from Value Chart.

SMBJ (J-Bend) 600 Watt Surface Mount TVS

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Breakdown Voltage (VBR) Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.23	800
Uni/Bi	6.0	6.67	7.67	800
Uni/Bi	6.5	7.22	9.14	500
Uni/Bi	7.0	7.78	8.95	200
Uni/Bi	7.5	8.33	9.58	100
Uni/Bi	8.0	8.89	10.23	50
Uni/Bi	8.5	9.44	10.82	10
Uni/Bi	9.0	10.00	11.50	5.0
Uni/Bi	10	11.10	12.80	5.0
Uni/Bi	11	12.20	14.40	5.0
Uni/Bi	12	13.30	15.30	5.0
Uni/Bi	13	14.40	16.50	5.0
Uni/Bi	14	15.60	17.90	5.0
Uni/Bi	15	16.70	19.20	5.0
Uni/Bi	16	17.80	20.50	5.0
Uni/Bi	17	18.90	21.70	5.0
Uni/Bi	18	20.00	23.30	5.0
Uni/Bi	20	22.20	25.50	5.0
Uni/Bi	22	24.40	28.00	5.0
Uni/Bi	24	26.70	30.70	5.0
Uni/Bi	26	28.90	33.20	5.0
Uni/Bi	28	31.10	35.80	5.0
Uni/Bi	30	33.30	38.30	5.0
Uni/Bi	33	36.70	42.20	5.0
Uni/Bi	36	40.00	46.00	5.0
Uni/Bi	40	44.40	51.10	5.0
Uni	43	47.80	54.90	5.0
Uni/Bi	45	50.00	57.50	5.0
Uni/Bi	48	53.30	61.30	5.0
Uni/Bi	51	56.70	65.20	5.0
Uni/Bi	54	60.00	69.00	5.0
Uni/Bi	58	64.40	74.60	5.0
Uni/Bi	60	66.70	76.70	5.0
Uni/Bi	64	71.10	81.80	5.0
Uni/Bi	70	77.80	89.50	5.0
Uni/Bi	75	83.30	95.80	5.0
Uni/Bi	78	86.70	99.70	5.0
Uni/Bi	85	94.40	108.20	5.0
Uni/Bi	90	100.0	115.50	5.0
Uni/Bi	100	111.0	128.00	5.0
Uni/Bi	110	122.0	140.00	5.0
Uni/Bi	120	133.0	153.00	5.0
Uni/Bi	130	144.0	165.50	5.0
Uni/Bi	150	167.0	192.50	5.0
Uni/Bi	160	178.0	205.00	5.0
Uni/Bi	170	189.0	217.50	5.0

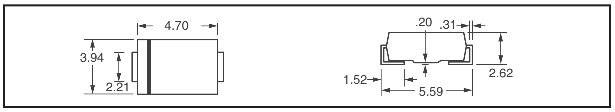

Features:

• 600W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version • Excellent clamping capability • Fast response time • 100% tested at rated peak pulse power

Mechanical Data:

• **Case:** SMB, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Price Each 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-Directional						
6.0 ~ 170	SMBJ**(Value)**ADICT-ND	.88	.79	.63	—	—
5.0 ~ 170	SMBJ**(Value)**A-FDICT-ND◆	1.03	.92	.73	SMBJ**(Value)**A-FDITR-ND◆	378.00/M
Bi-Directional						
8.5 ~ 75	SMBJ**(Value)**CADICT-ND	.95	.85	.68	—	—
5.0 ~ 170	SMBJ**(Value)**CA-FDICT-ND◆	.55	.44	.33	SMBJ**(Value)**CA-FDITR-ND◆	155.00/M

◆ ***RoHS Compliant*** † For complete part number, substitute (Value) from Value Chart.

SMCJ (J-Bend) 1500 Watt Surface Mount TVS

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Breakdown Voltage (VBR) Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.07	1000
Uni/Bi	6.0	6.67	7.37	1000
Uni/Bi	6.5	7.22	7.98	500
Uni/Bi	7.0	7.78	8.60	200
Uni/Bi	7.5	8.33	9.21	100
Uni/Bi	8.0	8.89	9.83	50
Uni/Bi	8.5	9.44	10.4	20
Uni/Bi	9.0	10.00	11.1	10
Uni/Bi	10	11.10	12.3	5.0
Uni/Bi	11	12.20	13.5	5.0
Uni/Bi	12	13.30	14.7	5.0
Uni/Bi	13	14.40	15.9	5.0
Uni/Bi	14	15.60	17.2	5.0
Uni/Bi	15	16.70	18.5	5.0
Uni/Bi	16	17.80	19.7	5.0
Uni/Bi	17	18.90	20.9	5.0
Uni/Bi	18	20.00	22.1	5.0
Uni/Bi	20	22.20	24.5	5.0
Uni/Bi	22	24.40	27.0	5.0
Uni/Bi	24	26.70	29.5	5.0
Uni/Bi	26	28.90	31.9	5.0
Uni/Bi	28	31.10	34.4	5.0
Uni/Bi	30	33.30	36.8	5.0
Uni/Bi	33	36.70	40.6	5.0
Uni/Bi	36	40.00	44.2	5.0
Uni/Bi	40	44.40	49.1	5.0
Uni/Bi	43	47.80	52.8	5.0
Uni/Bi	45	50.00	55.3	5.0
Uni/Bi	48	53.30	58.9	5.0
Uni/Bi	51	56.70	65.7	5.0
Uni/Bi	54	60.00	66.3	5.0
Uni/Bi	58	64.40	71.2	5.0
Uni/Bi	60	66.70	73.7	5.0
Uni/Bi	64	71.10	78.6	5.0
Uni/Bi	70	77.80	86.0	5.0
Uni/Bi	75	83.30	92.1	5.0
Uni/Bi	78	86.70	95.8	5.0
Uni/Bi	85	94.40	104	5.0
Uni/Bi	90	100	111	5.0
Uni/Bi	100	111	123	5.0
Uni/Bi	110	122	135	5.0
Uni/Bi	120	133	147	5.0
Uni/Bi	130	144	159	5.0
Uni/Bi	150	167	185	5.0
Uni/Bi	160	178	197	5.0
Uni/Bi	170	189	209	5.0

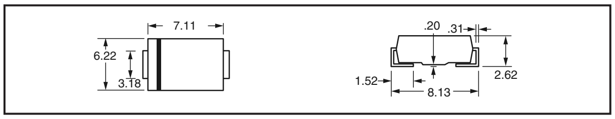

Features:

• 1500W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMC, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Price Each 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-Directional						
7.5 ~ 170	SMCJ**(Value)**ADICT-ND	1.24	1.12	.89	SMCJ170ADITR-ND	193.00/M
5.0 ~ 170	SMCJ**(Value)**A-FDICT-ND◆	1.44	1.30	1.03	SMCJ**(Value)**A-FDITR-ND◆	532.00/M
Bi-Directional						
6.0 ~ 78	SMCJ**(Value)**CADICT-ND	1.37	1.23	.98	—	—
5.0 ~ 170	SMCJ**(Value)**CA-FDICT-ND◆	1.60	1.43	1.14	SMCJ**(Value)**CA-FDITR-ND◆	588.00/M

◆ ***RoHS Compliant*** † For complete part number, substitute (Value) from Value Chart.

500 Watt Axial TVS Diode — SA Series

Improved 500W TVS diodes that can handle 1.0W steady state with improved reverse leakage characteristics. 100% surge tested. Use for applications requiring surge protection of sensitive electronic components. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

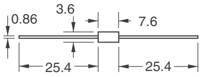

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
5.0	5.0	6.40	7.00	600
6.0	6.0	6.67	7.37	600
12	12.0	13.30	14.70	1
15	15.0	16.70	18.50	1
16	16.0	17.80	19.70	1
33	33.0	36.70	40.60	1

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 4,000
Unidirectional	5.0 ~ 33	SA(Value)ALFCT-ND	.39	3.59	30.16	SA(Value)ALFTR-ND	142.48/M
Bidirectional	6.0 ~ 33	SA(Value)CALFCT-ND	.43	3.97	33.35	SA(Value)CALFTR-ND	157.55/M

† For complete part number, substitute (Value) from Value Chart.
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

500 Watt Axial TVS Diode — SAC Series

SAC is designed for the protection of I/O interfaces, Vcc bus and other vulnerable circuits used in telecom, computer, industrial and consumer electronic applications. Very low junction capacitance maximum of 50pF @ 0V. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

Specifications: • Operating Junction and Storage Temperature Range: -55°C ~ 175°C

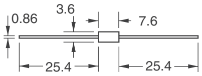

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
5.0	5.0	7.60	10.0	300
6.0	6.0	7.90	11.2	300
7.0	7.0	8.33	12.6	300
10	10.0	11.10	16.3	5
15	15.0	16.70	23.6	1

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 4,000
Unidirectional	5.0 ~ 15	SAC(Value)CT-ND	.39	3.59	30.16	SAC(Value)TR-ND	142.48/M

† For complete part number, substitute (Value) from Value Chart.

600 Watt Axial TVS Diode — P6KE Series

Protects sensitive electronics against voltage transients induced by ESD, inductive load switching and lightning. Ideal for protection of I/O interfaces, Vcc bus and other power supply circuits. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

Features:
- Glass passivated junction
- Excellent clamping capability
- Uni-directional and Bi-directional
- 100% surge tested

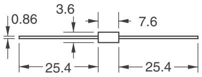

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
6.8	5.80	6.45	7.14	1000
7.5	6.40	7.13	7.88	500
9.1	7.78	8.65	9.55	50
10	8.550	9.50	10.50	10
12	10.20	11.40	12.60	5
13	11.10	12.40	13.70	5
15	12.80	14.30	15.80	5
16	13.60	15.20	16.80	5
18	15.30	17.10	18.90	5
20	17.10	19.00	21.00	5
24	20.50	22.80	25.20	5
27	23.10	25.70	28.40	5
30	25.60	28.50	31.50	5
33	28.20	31.40	34.70	5
36	30.80	34.20	37.80	5

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
43	36.80	40.90	45.20	5
47★	40.20	44.70	49.40	5
51	43.60	48.50	53.60	5
62	53.00	58.90	65.10	5
68	58.10	64.60	71.40	5
75	64.10	71.30	78.80	5
82	70.10	77.90	86.10	5
100	85.50	95.00	105.00	5
110	94.00	105.00	116.00	5
150	128.00	143.00	158.00	5
160	136.00	152.00	168.00	5
180	154.00	171.00	189.00	5
200	171.00	190.00	210.00	5
220	185.00	209.00	231.00	5
440	376.00	418.00	462.00	5

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	Digi-Key Part No.†	Tape and Reel Pricing 4,000
Unidirectional	6.8 ~ 100, 150 ~ 200	P6KE(Value)ALFCT-ND	.33	3.07	P6KE(Value)ALFTR-ND	121.93/M
	220 ~ 440	P6KE(Value)ALFCT-ND	.47	4.31	P6KE(Value)ALFTR-ND	171.25/M
Bidirectional	6.8 ~ 200	P6KE(Value)CALFCT-ND	.38	3.45	P6KE(Value)CALFTR-ND	137.00/M
	220 ~ 440	P6KE(Value)CALFCT-ND	.53	4.83	P6KE(Value)CALFTR-ND	191.80/M

† For complete part number, substitute (Value) from Value Chart. ★ Only Bi-Directional stocked by Digi-Key.
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

1500 Watt Axial TVS Diode — 1.5KE Series

Features:
- Glass passivated junction
- Low clamping factor
- Uni-directional and Bi-directional
- 100% surge tested

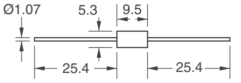

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
6.8	5.80	6.45	7.14	1000
7.5	6.40	7.13	7.88	500
10	8.55	9.50	10.50	10
12	10.20	11.40	12.60	5
15	12.80	14.30	15.80	1
18★	15.30	17.10	18.90	1
20	17.10	19.00	21.00	1
22	18.80	20.90	23.10	1
24	20.50	22.80	25.20	1
27	23.10	25.70	28.40	1
30	25.60	28.50	31.50	1
33	28.20	31.40	34.70	1
36	30.80	34.20	37.80	1
39	33.30	37.10	41.00	1
43	36.80	40.90	45.20	1
47	40.20	44.70	49.40	1

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
51	43.60	48.50	53.60	1
56	47.80	53.20	58.80	1
68	58.10	64.60	71.40	1
82	70.10	77.90	86.10	1
91	77.80	86.50	95.50	1
100	85.50	95.00	105.00	1
110	94.00	105.00	116.00	1
150	128.00	143.00	158.00	1
200	171.00	190.00	210.00	1
220	185.00	209.00	231.00	1
250	214.00	237.00	263.00	1
300	256.00	285.00	315.00	1
350	300.00	332.00	368.00	1
400	342.00	380.00	420.00	1
440	376.00	418.00	462.00	1

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	Digi-Key Part No.†	Tape and Reel Pricing 1,200
Unidirectional	6.8 ~ 200	1.5KE(Value)ALFCT-ND	.59	5.45	1.5KE(Value)ALFTR-ND	229.10/M
	220 ~ 440	1.5KE(Value)ALFCT-ND	.83	7.62	1.5KE(Value)ALFTR-ND	320.45/M
Bidirectional	6.8 ~ 200	1.5KE(Value)CALFCT-ND	.65	6.00	1.5KE(Value)CALFTR-ND	252.30/M
	220 ~ 440	1.5KE(Value)CALFCT-ND	.92	8.42	1.5KE(Value)CALFTR-ND	353.80/M

† For complete part number, substitute (Value) from Value Chart. ★ Only Bi-Directional stocked by Digi-Key.
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

5000 Watt Axial TVS Diode — 5KP Series

The 5KP series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Features: • Glass passivated junction • Excellent clamping capability • Low incremental surge resistance • High temperature soldering guaranteed: 260°C/40 seconds • Matte tin lead-free plated

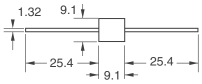

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
5.0	5.00	6.40	7.00	5000
6.0	6.00	6.67	7.37	5000
6.5	6.50	7.22	7.98	2000
7.5	7.50	8.33	9.21	250
10	10.00	11.10	12.30	15
12	12.00	13.30	14.70	2
15	15.00	16.70	18.50	2
16	16.00	17.80	19.70	2
18	18.00	20.00	22.10	2
20	20.00	22.20	24.50	2
24	24.00	26.70	29.50	2
26	26.00	28.90	31.90	2
30	30.00	33.30	36.80	2
33	33.00	36.70	40.60	2
36	36.00	40.00	44.20	2
40	40.00	44.40	49.10	2
43	43.00	47.80	52.80	2
45	45.00	50.00	55.30	2
48	48.00	53.30	58.90	2
51	51.00	56.70	62.70	2

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
54	54.00	60.00	66.30	2
58	58.00	64.40	71.20	2
60	60.00	66.70	73.70	2
64	64.00	71.10	78.60	2
70	70.00	77.00	86.00	2
75	75.00	83.30	92.10	2
78	78.00	86.70	95.80	2
85	85.00	94.40	104.00	2
90	90.00	100.00	111.00	2
100	100.00	110.00	123.00	2
110	110.00	122.00	135.00	2
120	120.00	133.00	147.00	2
130	130.00	144.00	159.00	2
150	150.00	167.00	185.00	2
160	160.00	178.00	197.00	2
170	170.00	189.00	209.00	2
180	180.00	200.00	221.00	2
190	190.00	211.00	233.00	2
200	200.00	222.00	246.00	2
210	210.00	233.00	258.00	2
220	220.00	244.00	270.00	2

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	Digi-Key Part No.†	Tape and Reel Pricing 800
Unidirectional	5.0 ~ 6.0, 7.5 ~ 190	5KP(Value)ALFCT-ND	3.28	30.15	5KP(Value)ALFTR-ND	1118.72
	200 ~ 220	5KP(Value)ALFCT-ND✔	5.25	48.33	5KP(Value)ALFTR-ND✔	1793.28
Bidirectional	5.0 ~ 48	5KP(Value)CALFCT-ND	3.60	33.15	5KP(Value)CALFTR-ND	1230.08
	51 ~ 220	5KP(Value)CALFCT-ND	5.79	53.27	5KP(Value)CALFTR-ND	1976.32

✔ NEW! † For complete part number, substitute (Value) from Value Chart.
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

Littelfuse
Expertise Applied | Answers Delivered

400 Watt TVS Diode DO-214AC (SMA) Package SMAJ Series

FEATURES:
- Glass passivated junction
- J lead construction
- Matte tin plated leads

SPECIFICATIONS:
- **Voltage Tolerance:** 5%
- **Operating Temperature:** -65°C ~ 150°C
- **High Temperature Soldering:** 260°C for 40 seconds at terminals
- **Plastic Package:** UL94V-0
- **Case:** JEDEC DO-214AC
- **Electrical Specification:** Tested at 25°C

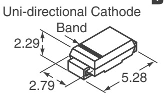

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Tape and Reel Pricing 5,000‡
Uni-directional	5.0 ~ 200	SMAJ(Value)ALFCT-ND	.35	3.17	26.68	119.60/M
	220 ~ 440	SMAJ(Value)ALFCT-ND	.48	4.45	37.41	167.70/M
Bi-directional	5.0 ~ 7.5, 8.5 ~ 51	SMAJ(Value)CALFCT-ND	.38	3.52	29.58	132.60/M
	54 ~ 78, 90 ~ 100, 130 ~ 440	SMAJ(Value)CALFCT-ND	.54	4.93	41.47	185.90/M

† For complete part number, substitute (Value) from the Value Chart. ‡ For Tape and Reel part number, change CT-ND to TR-ND. ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

§ **SMAJ-A-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$32.30**
▲ **SMAJ-CA-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$33.65**

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
5.0§▲	5.0	6.40	7.00	800
6.0§▲	6.0	6.67	7.37	800
6.5§▲	6.5	7.22	7.98	500
7.0§▲	7.0	7.78	8.60	200
7.5§▲	7.5	8.33	9.21	100
8.0	8.0	8.89	9.83	50
8.5§▲	8.5	9.44	10.40	20
9.0§▲	9.0	10.00	11.10	10
10§▲	10.0	11.10	12.30	5
11	11.0	12.20	13.50	1
12§▲	12.0	13.30	14.70	1
13§▲	13.0	14.40	15.90	1
14§▲	14.0	15.60	17.20	1
15§▲	15.0	16.70	18.50	1
16§▲	16.0	17.80	19.70	1
17	17.0	18.90	20.90	1
18§▲	18.0	20.00	22.10	1
20§▲	20.0	22.20	24.50	1
22§▲	22.0	24.40	26.90	1
24§▲	24.0	26.70	29.50	1
26§▲	26.0	28.90	31.90	1
28§▲	28.0	31.10	34.40	1
30§▲	30.0	33.30	36.80	1
33§▲	33.0	36.70	40.60	1
36§▲	36.0	40.00	44.20	1
40§▲	40.0	44.40	49.10	1
43	43.0	47.80	52.80	1
45§▲	45.0	50.00	55.30	1
48§▲	48.0	53.30	58.90	1
51§▲	51.0	56.70	62.70	1
54§▲	54.0	60.00	66.30	1
58§▲	58.0	64.40	71.20	1
60§▲	60.0	66.70	73.70	1
64	64.0	71.10	78.60	1
70	70.0	77.80	86.00	1
75	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100§▲	100.0	111.00	123.00	1
110	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130	130.0	144.00	159.00	1
150	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170§▲	170.0	189.00	209.00	1
180	180.0	201.00	222.00	1
200§▲	200.0	224.00	247.00	1
220	220.0	246.00	272.00	1
250§▲	250.0	279.00	309.00	1
300	300.0	335.00	371.00	1
350§▲	350.0	391.00	432.00	1
400§▲	400.0	447.00	494.00	1
440§▲	440.0	492.00	543.00	1

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500 Watt TVS Diode DO-214AA (SMB) Package — SACB Series

FEATURES: • Glass passivated chip junction • J Lead construction • Very low junction capacitance maximum of 45pF • High temperature soldering: 260°C/40 seconds at terminals • Matte tin plated leads

SPECIFICATIONS: • Operating Junction and Storage Temperature Range: -65°C ~ 150°C • Electrical specification: Tested @ 25°C

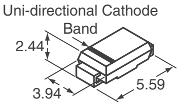

(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Max. Reverse Leakage IR @ VR (µA)
			Min.	Max.	
5.0	SKE	5.0	7.60	10.0	300
12	SLE	12.0	13.30	19.0	5

Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape & Reel Pricing 3,000
Uni-directional	5.0 ~ 12	SACB(Value)CT-ND	.55	5.07	42.63	SACB(Value)TR-ND	201.39/M

† For complete part number, substitute (Value) from the Value Chart.

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600 Watt TVS Diode DO-214AA (SMB) Package SMBJ, P6SMB Series

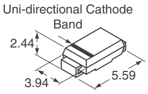

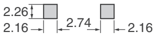

FEATURES: • Glass passivated junction • J lead construction • Matte tin plated leads **SPECIFICATIONS:** • **Voltage Tolerance:** 5% • **Operating Temperature:** -65°C ~ 150°C (SMBJ and P6SMB Series); -55°C ~ 150°C (P6SMBJ Series) • **High Temperature Soldering:** 260°C for 40 seconds at terminals (SMBJ and P6SMB Series); 250°C for 10 seconds at terminals (P6SMBJ Series) • **Electrical Specification:** Tested at 25°C

SMBJ Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
5.0▲•	5.0	6.40	7.00	800
6.0▲•	6.0	6.67	7.37	800
6.5▲•	6.5	7.22	7.98	500
7.0▲•	7.0	7.78	8.60	200
7.5▲•	7.5	8.33	9.21	100
8.0▲•	8.0	8.89	9.83	50
8.5•	8.5	9.44	10.40	20
9.0	9.0	10.00	11.10	10
10▲•	10.0	11.10	12.30	5
11	11.0	12.20	13.50	1
12▲•	12.0	13.30	14.70	1
13▲•	13.0	14.40	15.90	1
14▲•	14.0	15.60	17.20	1
15▲•	15.0	16.70	18.50	1
16•	16.0	17.80	19.70	1
17▲	17.0	18.90	20.90	1
18▲•	18.0	20.00	22.10	1
20▲•	20.0	22.20	24.50	1
22▲•	22.0	24.40	26.90	1
24▲•	24.0	26.70	29.50	1
26▲•	26.0	28.90	31.90	1
28▲•	28.0	31.10	34.40	1
30▲•	30.0	33.30	36.80	1
33▲•	33.0	36.70	40.60	1
36▲•	36.0	40.00	44.20	1
40▲•	40.0	44.40	49.10	1
43•	43.0	47.80	52.80	1
45▲	45.0	50.00	55.30	1
48▲•	48.0	53.30	58.90	1
51▲•	51.0	56.70	62.70	1
54▲•	54.0	60.00	66.30	1
58▲	58.0	64.40	71.20	1
60▲•	60.0	66.70	73.70	1
64•	64.0	71.10	78.60	1
70▲	70.0	77.80	86.00	1
75▲•	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100•	100.0	111.00	123.00	1
110	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130	130.0	144.00	159.00	1
150▲•	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170▲•	170.0	189.00	209.00	1
180	180.0	201.00	222.00	1
200▲•	200.0	224.00	247.00	1
220	220.0	246.00	272.00	1
300▲	300.0	335.00	371.00	1
350▲•	350.0	391.00	432.00	1
400▲•	400.0	447.00	494.00	1
440	440.0	492.00	543.00	1

P6SMB Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (µA)
		Min.	Max.	
6.8★▼	5.80	6.45	7.14	1000
7.5▼	6.40	7.13	7.88	500
8.2★▼	7.02	7.79	8.61	200
9.1	7.78	8.65	9.55	50
10▼	8.55	9.50	10.50	10
11★	9.40	10.50	11.60	5
12★▼	10.20	11.40	12.60	5
13★▼	11.10	12.40	13.70	1‡
15★▼	12.80	14.30	15.80	1‡
16★▼	13.60	15.20	16.80	1‡
18★▼	15.30	17.10	18.90	1‡
20★▼	17.10	19.00	21.00	1‡
22★▼	18.80	20.90	23.10	1‡
24★▼	20.50	22.80	25.20	1‡
27★▼	23.10	25.70	28.40	1‡
30★▼	25.60	28.50	31.50	1‡
33★▼	28.20	31.40	34.70	1‡
36★▼	30.80	34.20	37.80	1‡
39★▼	33.30	37.10	41.00	1‡
43★▼	36.80	40.90	45.20	1‡
47★▼	40.20	44.70	49.40	1‡
51▼	43.60	48.50	53.60	1‡
56★▼	47.80	53.20	58.80	1‡
62★▼	53.00	58.90	65.10	1‡
68★▼	58.10	64.60	71.40	1‡
75★	64.10	71.30	78.80	1‡
82★▼	70.10	77.90	86.10	1‡
91▼	77.80	86.50	95.50	1‡
100★▼	85.50	95.00	105.00	1‡
120§	102.00	114.00	126.00	1‡
130★▼	111.00	124.00	137.00	1‡
150★	128.00	143.00	158.00	1‡
160§	136.00	152.00	168.00	1‡
180	154.00	171.00	189.00	1‡
200★▼	171.00	190.00	210.00	1‡
220★▼	185.00	209.00	231.00	1‡
250★	214.00	237.00	263.00	1‡
300★▼	256.00	285.00	315.00	1‡
350★▼	300.00	332.00	368.00	1‡
400★▼	342.00	380.00	420.00	1‡
440★▼	376.00	418.00	462.00	1‡
480★▼	408.00	456.00	504.00	1‡
510★▼	434.00	485.00	535.00	1‡
540§	477.00	503.50	556.50	1‡
550★▼	495.00	522.50	577.50	1‡

Series	Description	Voltage Range *(Value)* See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
SMBJ	Uni-directional TVS	5.0 ~ 200	SMBJ(Value)ALFCT-ND	.37	3.38	28.42	SMBJ(Value)ALFTR-ND	134.26/M
	Uni-directional TVS	220 ~ 400	SMBJ(Value)ALFCT-ND	.51	4.69	39.44	SMBJ(Value)ALFTR-ND	186.32/M
	Bi-directional TVS	5.0 ~ 200	SMBJ(Value)CALFCT-ND	.41	3.73	31.32	SMBJ(Value)CALFTR-ND	147.96/M
	Bi-directional TVS	220 ~ 440	SMBJ(Value)CALFCT-ND	.57	5.21	43.79	SMBJ(Value)CALFTR-ND	206.87/M
P6SMB	Uni-directional TVS	6.8 ~ 200	P6SMB(Value)ALFCT-ND	.37	3.38	28.42	P6SMB(Value)ALFTR-ND	134.26/M
	Uni-directional TVS	220 ~ 550	P6SMB(Value)ALFCT-ND	.51	4.69	39.44	P6SMB(Value)ALFTR-ND	186.32/M
	Bi-directional TVS	6.8 ~ 200	P6SMB(Value)CALFCT-ND	.41	3.73	31.32	P6SMB(Value)CALFTR-ND	147.96/M
	Bi-directional TVS	220 ~ 550	P6SMB(Value)CALFCT-ND	.57	5.21	43.79	P6SMB(Value)CALFTR-ND	206.87/M

† For complete part number, substitute (Value) from the Value Chart. § Values not stocked by Digi-Key in the P6SMB series. ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

▲ **SMBJ-A-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$33.11**
• **SMBJ-CA-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$34.46**
★ **P6SMB-A-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$33.11**
▼ **P6SMB-CA-KIT-ND** ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$34.46**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

1500 Watt TVS Diode DO-214AB (SMC) Package — SMCJ Series

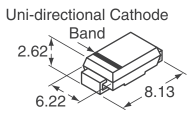

FEATURES:
- Glass passivated junction
- J lead construction

SPECIFICATIONS:
- **Voltage Tolerance:** 5%
- **Operating Temperature:** -65°C ~ 150°C
- **High Temperature Soldering:** 260°C for 40 seconds at terminals
- **Plastic Package:** UL94V-0
- **Electrical Specification:** Tested at 25°C

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (μA)
		Min.	Max.	
5.0‡▲	5.0	6.40	7.00	800
6.0‡▲	6.0	6.67	7.37	800
6.5▲	6.5	7.22	7.98	500
7.0‡	7.0	7.78	8.60	200
7.5‡	7.5	8.33	9.21	100
8.0	8.0	8.89	9.83	50
8.5	8.5	9.44	10.40	20
9.0	9.0	10.00	11.10	10
10‡▲	10	11.10	12.30	5
11	11	12.20	13.50	1
12‡▲	12	13.30	14.70	1
13‡▲	13	14.40	15.90	1
14‡	14	15.60	17.20	1
15‡▲	15	16.70	18.50	1
16‡▲	16	17.80	19.70	1
17	17	18.90	20.90	1
18‡▲	18	20.00	22.10	1
20‡▲	20	22.20	24.50	1
22‡▲	22.0	24.40	26.90	1
24‡▲	24.0	26.70	29.50	1
26‡	26.0	28.90	31.90	1
28‡▲	28.0	31.10	34.40	1
30‡▲	30.0	33.30	36.80	1
33‡▲	33.0	36.70	40.60	1
36‡	36.0	40.00	44.20	1
40‡▲	40.0	44.40	49.10	1
45‡▲	45.0	50.00	55.30	1
48‡▲	48.0	53.30	58.90	1
51‡▲	51.0	56.70	62.70	1
54‡▲	54.0	60.00	66.30	1
58‡▲	58.0	64.40	71.20	1
60‡▲	60.0	66.70	73.70	1
64	64.0	71.10	78.60	1
70‡▲	70.0	77.80	86.00	1
75‡▲	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85▲	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100‡▲	100.0	111.00	123.00	1
110‡	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130‡▲	130.0	144.00	159.00	1
150‡▲	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170▲	170.0	189.00	209.00	1
180‡	180.0	201.00	222.00	1
200‡▲	200.0	224.00	247.00	1
220▲	220.0	246.00	272.00	1
250▲	250.0	279.00	309.00	1
300▲	300.0	335.00	371.00	1
350‡▲	350.0	391.00	432.00	1
400‡▲	400.0	447.00	494.00	1
440▲	440.0	492.00	543.00	1

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-directional	5.0 ~ 200	SMCJ(Value)ALFCT-ND	.64	5.90	49.59	SMCJ(Value)ALFTR-ND	234.27/M
	220 ~ 440	SMCJ(Value)ALFCT-ND	.90	8.28	69.60	SMCJ(Value)ALFTR-ND	328.80/M
Bi-directional	5.0 ~ 8.0, 9.0 ~ 10, 12 ~ 200	SMCJ(Value)CALFCT-ND	.70	6.45	54.23	SMCJ(Value)CALFTR-ND	256.19/M
	220 ~ 440	SMCJ(Value)CALFCT-ND	.98	9.04	75.98	SMCJ(Value)CALFTR-ND	358.94/M

† For complete part number, substitute (Value) from the Value Chart. ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

‡ SMCJ-A-KIT-ND ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$42.96**

▲ SMCJ-CA-KIT-ND ***NEW!*** 36 values, 5 each of parts indicated (180 pieces) **$45.12**

1500 Watt TVS Diode DO-214AB (SMC) Package — 1.5SMC Series

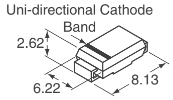

FEATURES:
- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:
- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%
- Electrical specification tested at 25°C

(Value) Nominal Breakdown Voltage	Marking Code		Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (μA)
	Uni	Bi		Min.	Max.	
6.8	6V8A	6V8C	5.80	6.45	7.14	1000
12	12A	12C	10.20	11.40	12.60	5
24	24A	24C	20.50	22.80	25.20	1
27	27A	27C	23.10	25.70	28.40	1
33	33A	33C	28.20	31.40	34.70	1
36	36A	36C	30.80	34.20	37.80	1
39	39A	39C	33.30	37.10	41.00	1

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-directional	6.8 ~ 39	1.5SMC(Value)ACT-ND	.64	5.90	49.59	1.5SMC(Value)ATR-ND	234.27/M
Bi-directional	6.8 ~ 39	1.5SMC(Value)CACT-ND	.70	6.45	54.23	1.5SMC(Value)CATR-ND	256.19/M

† For complete part number, substitute (Value) from the Value Chart. ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

3000 Watt TVS Diode DO-214AB (SMC) Package — SMDJ Series

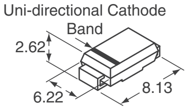

FEATURES:
- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:
- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%

(Value) Nominal Breakdown Voltage	Marking Code		Reverse Stand Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (μA)
	Uni	Bi		Min.	Max.	
10‡▲	PDX	DDX	10.0	11.10	12.30	5
12‡▲	PEE	DEE	12.0	13.30	14.70	2
15‡▲	PEM	DEM	15.0	16.70	18.50	2
17	PER	DER	17.0	18.90	20.90	2
18‡▲	PET	DET	18.0	20.00	22.10	2
20	PEV	DEV	20.0	22.20	24.50	2
24‡▲	PEZ	DEZ	24.0	26.70	29.50	2
28‡▲	PFG	DFG	28.0	31.10	34.40	2
30‡▲	PFK	DFK	30.0	33.30	36.80	2
33‡▲	PFM	DFM	33.0	36.70	40.60	2
36‡▲	PFP	DFP	36.0	40.00	44.20	2
40‡▲	PFR	DFR	40.0	44.40	49.10	2
43▲	PFT	DFT	43.0	47.80	52.80	2
45‡	PFV	DFV	45.0	50.00	55.30	2
48‡	PFX	DFX	48.0	53.30	58.90	2
51‡▲	PFZ	DFZ	51.0	56.70	62.70	2
54▲	RGE	DGE	54.0	60.00	66.30	2
58‡▲	PGG	DGG	58.0	64.40	71.20	2
60‡▲	PGK	DGK	60.0	66.70	73.70	2
64‡▲	PGM	DGM	64.0	71.10	78.60	2
70▲	PGP	DGP	70.0	77.80	86.00	2
75‡▲	PGR	DGR	75.0	83.30	92.10	2
78	PGT	DGT	78.0	86.70	95.80	2
85	PGV	DGV	85.0	94.40	104.00	2
90‡	PGX	DGX	90.0	100.00	111.00	2

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-directional	10 ~ 40	SMDJ(Value)ACT-ND	1.05	9.63	80.91	SMDJ(Value)ATR-ND	382.23/M
	43 ~ 90	SMDJ(Value)ACT-ND ***NEW!***	1.22	11.25	94.54	SMDJ(Value)ATR-ND ***NEW!***	446.62/M
Bi-directional	10 ~ 17	SMDJ(Value)CACT-ND	1.13	10.38	87.29	SMDJ(Value)CATR-ND	412.37/M
	18 ~ 43	SMDJ(Value)CACT-ND	1.34	12.32	103.53	SMDJ(Value)CATR-ND	489.09/M
	45 ~ 90	SMDJ(Value)CACT-ND ***NEW!***	2.12	19.49	163.85	SMDJ(Value)CATR-ND ***NEW!***	774.05/M

† For complete part number, substitute (Value) from the Value Chart. ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

‡ SMDJ-A-KIT-ND ***NEW!*** 18 values, 5 each of parts indicated (90 pieces)......................... **$52.11**

▲ SMDJ-CA-KIT-ND ***NEW!*** 18 values, 5 each of parts indicated (90 pieces) **$69.48**

Littelfuse®
Expertise Applied | Answers Delivered

5000 Watt TVS Diode DO-214AB (SMC) Package — 5.0 SMDJ Series

Features: • Glass passivated chip junction • J lead construction • High temperature soldering: 260°C/40 seconds at terminals • Matte tin lead-free plated

Specifications: • Operating Junction and Storage Temperature Range: -65°C ~ 150°C • Voltage tolerance: 5% • Electrical specification tested at 25°C • UL approved 20V ~ 170V only

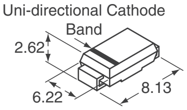

Description	Voltage Range (Value) See Chart	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 3,000
Uni-directional	12 ~ 28	5.0SMDJ(Value)ACT-ND	2.02	18.56	156.02	5.0SMDJ(Value)ATR-ND	737.06/M

† For complete part number, substitute (Value) from the Value Chart.

(Value) Nominal Breakdown Voltage	Marking Code Uni	Reverse Stand-Off Voltage VR (V)	Breakdown Voltage VBR (V) @ IT		Maximum Reverse Leakage IR @ VR (μA)
			Min.	Max.	
12	5PEP	12.0	13.30	14.70	800
14	5PER	14.0	15.60	17.20	200
15	5PES	15.0	16.70	18.50	100
16	5PET	16.0	17.80	19.70	50
18	5PEV	18.0	20.00	22.10	10
24	5PEZ	24.0	26.70	29.50	5
28	5PFG	28.0	31.10	34.40	5

PLED® Series LED Protector

The Open LED protector provides a switching electronic shunt path when an LED in an LED array fails as an open circuit. This ensures that the entire array of LEDs will continue to function even if a single LED in the array does not.

Features: • HF (Halogen Free) • Bidirectional device • Fast-switching • Automatically resets after power cycle • Compatible with PWM dimming speeds of up to 10KHz

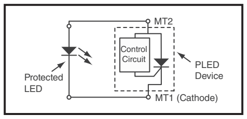

Package	VBR Breakdown (V)		VDRM Breakdown (V)	IH (mA)	IS (mA)	IT @ VT (A)	VT @ IT=1 (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
	Minimum	Maximum	Minimum	Minimum	Maximum	Maximum	Maximum		1	10	100		Qty.	Pricing	
DO-214AA	6	16	6	5	100	1.0	1.5	F3277CT-ND	.94	8.63	72.50	F3277TR-ND	2,500	342.50/M	PLED6S
	9	18	9	5	100	1.0	1.5	F3278CT-ND	.94	8.63	72.50	F3278TR-ND	2,500	342.50/M	PLED9S
	13	26	13	5	100	1.0	1.5	F3279CT-ND	.94	8.63	72.50	F3279TR-ND	2,500	342.50/M	PLED13S
	18	33	18	5	100	1.0	1.5	F3576CT-ND ***NEW!***	.75	6.90	58.00	F3576TR-ND ***NEW!***	2,500	274.00/M	PLED18S
3x3 QFN	18	33	18	5	100	1.0	1.5	F3577CT-ND ***NEW!***	.94	8.63	72.50	F3577TR-ND ***NEW!***	5,000	325.00/M	PLED18Q12

Package	Turn-On Voltage (VTO)		Input Voltage (VAK)	Switching Current (IS)	On-State Current (IOS)	On-State Voltage (VOS)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
	Minimum	Maximum	Maximum	Maximum	Maximum	Typical	Maximum		1	10	100		Qty.	Pricing	
SOT-89	4.65	5.15	38	20mA	700mA	1.6	1.8	F3574CT-ND ***NEW!***	.64	5.87	49.30	F3574TR-ND ***NEW!***	1,000	247.00	PLED5HT
2x2 QFN	4.65	5.15	40	20mA	500mA	1.0	1.3	F3575CT-ND ***NEW!***	.56	5.18	43.50	F3575TR-ND ***NEW!***	3,000	206.00/M	PLED5Q12

ESD Transient Voltage Suppression Arrays — SP72X Series

This is an array of SCR/Diode bipolar structures for ESD and over-voltage protection. The SCR structures are designed for fast triggering, if a transient pulse is detected with a voltage level greater than one V_{BE}, negative or positive pulse, above V+ or below V- the device will be activated.

Applications:
• Microprocessor/Logic Input Protection • Data Bus Protection • Analog Device Input Protection • Voltage Clamp

Features:
• Fast Switching Times • Low Input Leakage • Low Input Capacitance • Operating Temperature Range: -40°C ~ 105°C • Input Leakage Current Typical (nA): 1.5A • Input Capacitance: 3 ~ 5pf • Input Switch Speed: 2ns

Functional Block Diagram

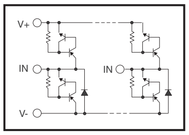

Package	No. of Input Arrays per Package	Operating Voltage Range (V Supply)	Quiescent Supply Current Typ. (nA)	Equivalent SCR ON Threshold (V) †	Equivalent SCR ON Resistance (Ω) †	Digi-Key Part No.	Price Each 1	10	100	Tape and ReelΔ Qty.	Pricing	Littelfuse Part No.
SOT-23-6	4	1 ~ 20	100 (Max.)	1.1	1	F2863CT-ND‡	2.00	1.84	1.55	3,000	728.84/M	SP724AHTG
8-SOIC	4	2 ~ 30	50	1.1	0.5	F2914CT-ND‡	4.03	3.71	3.12	2,500	1472.76/M	SP725ABTG
8-Dip	6	2 ~ 30	50	1.1	0.5	F2722-ND	3.41	3.15	2.37	—	—	SP723APP
8-SOIC	6	2 ~ 30	50	1.1	0.5	F2721-ND	3.32	3.07	2.30	—	—	SP723ABG
8-SOIC	6	2 ~ 30	50	1.1	0.5	F3164CT-ND‡	4.03	3.71	3.12	2,500	1472.76/M	SP723ABTG
8-Dip	6	2 ~ 30	50	1.1	1	F2720-ND	2.52	2.33	1.75	—	—	SP721APP
8-SOIC	6	2 ~ 30	50	1.1	1	F2719-ND	2.52	2.33	1.75	—	—	SP721ABG
8-SOIC	6	2 ~ 30	50	1.1	1	F3163CT-ND‡	3.06	2.82	2.37	2,500	1119.30/M	SP721ABTG
16-Dip	14	2 ~ 30	50	1.1	1	F2718-ND	3.60	3.33	2.50	—	—	SP720APP
16-SOIC	14	2 ~ 30	50	1.1	1	F2717-ND	3.60	3.33	2.50	—	—	SP720ABG
16-SOIC	14	2 ~ 30	50	1.1	1	F3162CT-ND‡	4.35	4.01	3.37	2,500	1590.58/M	SP720ABTG

Δ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape † Information given to determine peak current and dissipation under EOS conditions **Note:** The SP724 is covered by Littelfuse patent 4567500

Silicon Protection Array (SPA) TVS-ESD — SP03 Series

This new broadband protection device from Littelfuse provides overvoltage protection for applications such as 10/100/1000 BaseT Ethernet, T3/E3 DS3 interfaces, ADSL2+ and VDSL2+. Fabricated in a proprietary silicon avalanche technology.

Features:
- Clamping speed of nanoseconds
- **Peak Pulse Power (8/20μs):** SP03-3.3BTG: 3,300W; SP03-6BTG: 2,800W
- **IEC 61000-4-2, Direct Discharge, (Level 4):** SP03-3.3BTG: 30kV; SP03-6BTG: 8kV
- **IEC 61000-4-2, Air Discharge, (Level 4):** SP03-3.3BTG: 30kV; SP03-6BTG: 15kV
- SP03-3.3BTG: Telcordia GR 1089 (Intra-Building) (2/10μs): 100A
- SP03-6BTG: Bellcore GR 1089 (Intra-Building) (2/10μs): 100A
- Operating Temperature: -55°C ~ 125°C

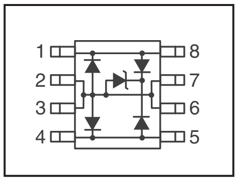

No. of Input Channels	Pack-age Type	Reverse Standoff Voltage (Maximum)	Reverse Leakage Current (Maximum)	Clamp Voltage Ipp=100A, 8x20μS(Maximum)	Diode Capacitance VR=0V, f=1MHz(Typical)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Littelfuse Part No.
2	8-SOIC	3.3V	1μA	15V	8pF	F3276CT-ND	2.63	2.42	2.03	F3276TR-ND	959.00/M	SP03-3.3BTG
2	8-SOIC	6V	25μA	20V	8pF	F2876CT-ND	2.25	2.07	1.74	F2876TR-ND	822.00/M	SP03-6BTG

Note: Pending UL recognized component

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse
Expertise Applied | Answers Delivered

Silicon Protection Array (SPA) TVS-ESD SP050X Series

The surface mount family of arrays are designed to suppress ESD and other transient overvoltage events. Fabricated in a proprietary silicon avalanche technology.

Features: • Input Protection for applications up to 5VDC • Fast Response Time: <1ns • Low Input Capacitance: 30pF Typical • Operating Temperature Range -40°C ~ 85°C • **ESD Capability Standards:** IEC 61000-4-2, Direct Discharge: 20kV (Level 4), IEC 61000-4-2, Air Discharge: 30kV (Level 4), MIL STD 883 3015.7 30kV

Fig. 1

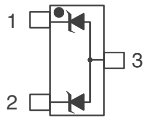

Fig. 2

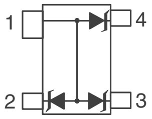

Fig. 3

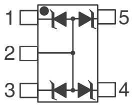

Fig. 4

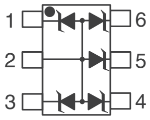

Fig. 5

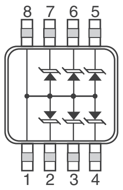

Fig.	No. of Input Channels	Package Type	Reverse Standoff Voltage Minimum	Reverse Leakage Current (nA) Maximum	Clamp Voltage Forward (V) Typical	Diode Capacitance 2.5V @ 1Mhz (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
1	2	SOT23	5.5	100	6.8	30	F2714CT-ND	.66	.62	.52	F2714TR-ND	3,000	242.49/M	SP0502BAHTG
	2	SC70-3	5.5	100	6.8	30	F3158CT-ND	.74	.68	.57	F3158TR-ND	3,000	268.52/M	SP0502BAJTG
2	3	SOT143	5.5	100	6.8	30	F2715CT-ND	.80	.74	.62	F2715TR-ND	3,000	291.81/M	SP0503BAHTG
3	4	SOT23-5	5.5	100	6.8	30	F3157CT-ND	.93	.86	.73	F3157TR-ND	3,000	341.13/M	SP0504BAHTG
	4	SC70-5	5.5	100	6.8	30	F3159CT-ND	1.04	.96	.81	F3159TR-ND	3,000	378.12/M	SP0504BAJTG
4	5	SOT23-6	5.5	100	6.8	30	F2716CT-ND	1.02	.94	.79	F2716TR-ND	3,000	372.64/M	SP0505BAHTG
	5	SC70-6	5.5	100	6.8	30	F3160CT-ND	1.16	1.07	.90	F3160TR-ND	3,000	423.33/M	SP0505BAJTG
5	6	MSOP-8	5.5	100	6.8	30	F3161CT-ND	1.60	1.47	1.24	F3161TR-ND	4,000	583.62/M	SP0506BAATG

Silicon Protection Array (SPA)TVS-ESD — SP1000 Series

Zener diodes fabricated in a proprietary silicon avalanche technology protect each I/O pin to provide a high level of protection for electronic equipment that may experience destructive electrostatic discharges (ESD).

Features: • EFT protection, IEC61000-4-4, 40A (5/50 ns) • **Peak Current (tp=8/20µs)**: SP1001 and SP1002 Series: 2A; SP1003 Series: 7A • Operating Temperature: -40°C ~ 85°C • Bi-directional devices

Fig. 1 ***NEW!***

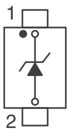

Fig. 2 ***NEW!***

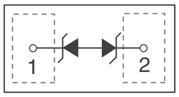

Fig. 3

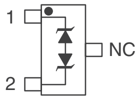

Fig. 4

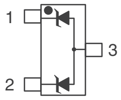

Fig. 5

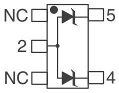

Fig. 6

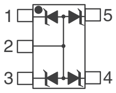

Fig. 7 ***NEW!***

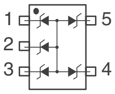

Fig. 8 ***NEW!***

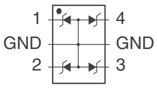

Fig. 9

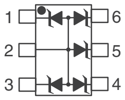

Fig.	No. of Input / Output Channels	Package Type	Reverse Standoff Voltage (Maximum)	Reverse Leakage Current (Maximum)	Clamp Voltage‡ IPP=2A, 8x20µS Forward (Typical)	Diode Capacitance Bias=0V (Typical)	ESD Withstanding Voltage‡ (IEC61000-4-2) Contact	Air	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
1	1†	SOD-723	5.0V	1.0µA	12.5V§	30pF	±25kV	±30kV	F3377CT-ND ***NEW!***	.32	.30	.25	F3377TR-ND ***NEW!***	8,000	110.50/M	SP1003-01DTG
2	1	0201	6.0V	0.5µA	10.0V	30pF	±30kV	±30kV	F3572CT-ND ***NEW!***	.18	.17	.14	F3572TR-ND ***NEW!***	10,000	60.00/M	SP1005-01WTG
	1	0201	6.0V	0.5µA	12.2V	5pF	±8kV	±15kV	F3573CT-ND ***NEW!***	.18	.17	.14	F3573TR-ND ***NEW!***	10,000	60.00/M	SP1007-01WTG
3	1	SC70-3	6.0V	0.5µA	11.2V	6pF	±8kV	±15kV	F2899CT-ND	.26	.25	.21	F2899TR-ND	3,000	95.90/M	SP1002-01JTG
4	2	SC70-3	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2893CT-ND	.32	.30	.25	F2893TR-ND	3,000	116.45/M	SP1001-02JTG
5	2	SOT-553	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2894CT-ND	.34	.32	.27	F2894TR-ND	5,000	117.00/M	SP1001-02XTG
6	4	SC70-5	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2895CT-ND	.45	.42	.35	F2895TR-ND	3,000	164.40/M	SP1001-04JTG
	4	SOT-553	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2896CT-ND	.47	.44	.37	F2896TR-ND	5,000	162.50/M	SP1001-04XTG
7	4	SOT-953	6.0V	0.1µA	12.0V	6pF	±8kV	±15kV	F3502CT-ND ***NEW!***	.51	.47	.40	F3502TR-ND ***NEW!***	8,000	175.50/M	SP1004-04VTG
8	4	6-µDFN	6.0V	1.0µA	7.8∆	6pF	±8kV	±15kV	F3503CT-ND ***NEW!***	.49	.45	.38	F3503TR-ND ***NEW!***	3,000	178.10/M	SP1010-04UTG
	4	6-µDFN	6.0V	1.0µA	10.2V	12pF	±15kV	±30kV	F3504CT-ND ***NEW!***	.51	.47	.40	F3504TR-ND ***NEW!***	3,000	184.95/M	SP1011-04UTG
9	5	SC70-6	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2897CT-ND	.56	.52	.44	F2897TR-ND	3,000	205.50/M	SP1001-05JTG
	5	SOT-563	5.5V	0.5µA	9.7V	12pF	±8kV	±15kV	F2898CT-ND	.58	.54	.45	F2898TR-ND	5,000	201.50/M	SP1001-05XTG

‡ Parameter is guaranteed by device characterization, see data sheet. † Uni-directional ESD Array § IPP=7A ∆ IPP@1mA

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Silicon Protection Array (SPA) TVS-ESD — SP3000 Series

Digi-Reel® RoHS

These have ultra low capacitance rail-to rail steering diodes with an additional zener diode fabricated in a proprietary silicon avalanche technology to protect each I/O pin providing a high level of protection for electronic equipment that may experience destructive electrostatic discharges (ESD).

Features: • Operating Temperature: -40°C ~ 85°C • Maximum Junction Temperature: 150°C • **Peak Current (tp=8/20µs):** SP3001 and SP3003 Series: 2.5A; SP3002 Series: 4.5A; SP3004 Series: 4A, SP3050 Series: 10A • Bi-directional devices

Fig. 1

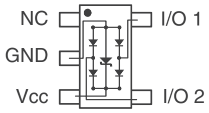

Fig. 2

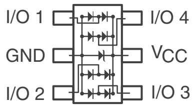

Fig. 3

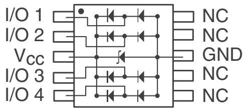

Fig. 4 ***NEW!***

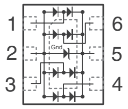

6-µDFN shown

Fig.	No. of Channels	Package	Reverse Standoff Voltage (Maximum)	Reverse Leakage Current (Maximum)	Clamp Voltage‡ IPP=2A, tp=8x20µs Forward (Typical)	Diode Capacitance‡ Reverse Bias=1.65V (Typical)	ESD Withstanding Voltage‡ (IEC61000-4-2) Contact	Air	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
1	2	SC70-5	6.0V	0.5µA	11.8V	0.65pF	±8kV	±15kV	F3301CT-ND	.93	.86	.72	F3301TR-ND	3,000	339.76/M	SP3003-02JTG
	2	SOT553	6.0V	0.5µA	11.8V	0.65pF	±8kV	±15kV	F3302CT-ND	1.02	.95	.80	F3302TR-ND	5,000	354.90/M	SP3003-02XTG
2	4	SC70-6	6.0V	0.5µA	10.6V	0.65pF	±8kV	±15kV	F2915CT-ND	.71	.66	.56	F2915TR-ND	3,000	260.30/M	SP3001-04JTG
	4	SC70-6	6.0V	0.5µA	10.6V	0.85pF	±12kV	±15kV	F2916CT-ND	.68	.63	.53	F2916TR-ND	3,000	246.60/M	SP3002-04JTG
	4	SC70-6	6.0V	0.5µA	11.8V	0.65pF	±8kV	±15kV	F2917CT-ND	.71	.66	.56	F2917TR-ND	3,000	260.30/M	SP3003-04JTG
	4	SOT563	6.0V	0.5µA	11.8V	0.65pF	±8kV	±15kV	F2918CT-ND	.73	.68	.57	F2918TR-ND	5,000	253.50/M	SP3003-04XTG
	4	SOT563	6.0V	0.5µA	11.8V	0.85pF	±12kV	±15kV	F3468CT-ND ***NEW!***	.69	.64	.54	F3468TR-ND ***NEW!***	5,000	240.50/M	SP3004-04XTG
	4	SOT23-6	6.0V	0.5µA	11.5V§	2.0pF	±20kV	±30kV	F3467CT-ND ***NEW!***	1.01	.94	.79	F3467TR-ND ***NEW!***	3,000	369.90/M	SP3050-04HTG
3	4	MSOP-10	6.0V	0.5µA	11.8V	0.65pF	±8kV	±15kV	F3303CT-ND	1.58	1.46	1.23	F3303TR-ND	4,000	578.14/M	SP3003-04ATG
4	4	SOT-23-6	6.0V	0.5µA	10.6V	0.85pF	±12kV	±15kV	F3505CT-ND ***NEW!***	.66	.61	.51	F3505TR-ND ***NEW!***	3,000	239.75/M	SP3002-04HTG
	4	6-µDFN	6.0V	0.5µA	10.6V	0.85pF	±12kV	±15kV	F3506CT-ND ***NEW!***	.71	.66	.56	F3506TR-ND ***NEW!***	3,000	260.30/M	SP3002-04UTG
	4	10-µDFN	6.0V	0.5µA	12.3V	0.45pF★	±8kV	±15kV	F3507CT-ND ***NEW!***	.90	.83	.70	F3507TR-ND ***NEW!***	3,000	328.80/M	SP3010-04UTG

‡ Parameter is guaranteed by device characterization, *see data sheet.* § IPP=5A ★ Reverse Bias @ OV

NEW! Silicon Protection Array (SPA) EMI Filter with ESD Protection

RoHS
Digi-Reel®

The SP6000 SPA series integrates EMI filters (C-R-C) into a small, low-profile package with each filter providing greater than -30dB attenuation at 1GHz. Each I/O is capable of shunting ±30kV ESD strikes (IEC61000-4-2, contact discharge) away from sensitive electronic components

Features:

- EMI filtering of frequencies from 800MHz ~ 3GHz
- **Operating Temperature:** -40°C ~ 85°C

Fig. 1

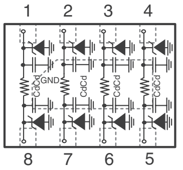

Fig. 2

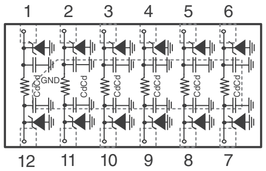

Fig.	No. of Channels	Package	Reverse Standoff Voltage (Maximum)	Reverse Leakage Current (Maximum)	Breakdown Voltage‡ Ir=1mA, (Typical)	Diode Capacitance‡◊ Reverse Bias=2.5V (Typical)	ESD Withstanding Voltage‡ (IEC61000-4-2) Contact	Air	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Littelfuse Part No.
1	4	8-µDFN	6.0V	1.0µA	7.8V	12pF	±30	±30	F3525CT-ND	.84	.78	.66	F3525TR-ND	308.25/M	SP6001-04UTG-1
	4	8-µDFN	6.0V	1.0µA	7.8V	15pF	±30	±30	F3527CT-ND	.84	.78	.66	F3527TR-ND	308.25/M	SP6002-04UTG-1
2	6	12-µDFN	6.0V	1.0µA	7.8V	12pF	±30	±30	F3526CT-ND	1.05	.97	.82	F3526TR-ND	383.60/M	SP6001-06UTG-1
	6	12-µDFN	6.0V	1.0µA	7.8V	15pF	±30	±30	F3528CT-ND	1.05	.97	.82	F3528TR-ND	383.60/M	SP6002-06UTG-1

‡ Parameter is guaranteed by device characterization, see data sheet. ◊ Total line capacitance is two times the diode capacitance

NEW! Silicon Protection Array (SPA) Diode Compensated TVS-ESD — SPLV Series

RoHS
Digi-Reel®

The SPLV2.8 Series was designed to protect low voltage, CMOS devices from ESD and lightning induced transients. There is a compensating diode in series with each low voltage TVS to present a low loading capacitance to the line being protected.

- Operating Temperature: -40°C ~ 85°C

Fig. 1

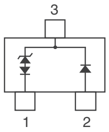

Fig. 2

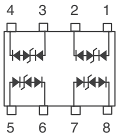

Fig.	No. of Channels	Package	Reverse Standoff Voltage (Maximum)	Reverse Leakage Current (Maximum)	Clamp Voltage‡ IPP=24A, tp=8x20µs Forward (Typical)	Diode Capacitance‡ Reverse Bias=0V (Typical)	ESD Withstanding Voltage‡ (IEC61000-4-2) Contact	Air	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
1	1	SOT23-3	2.8	1.0µA	12.5V▲	3.8	±30	±30	F3530CT-ND	.98	.90	.68	F3530TR-ND	3,000	411.00/M	SPLV2.8 HTG
2	4	8-SOIC	2.8	1.0µA	12.5V	3.8	±30	±30	F3529CT-ND	1.79	1.65	1.24	F3529TR-ND	2,500	753.50/M	SPLV2.8-4BTG

‡ Parameter is guaranteed by device characterization, see data sheet. ▲ Pin 2 to 1, see data sheet for additional clamping voltages

BOURNS® *NEW!* Transient Voltage Suppressor Diode

Bourns offers Transient Voltage Suppressor Diodes for surge and ESD protection applications, in compact chip package DO-214AA (SMB) size format. The Transient Voltage Suppressor series offers a choice of Working Peak Reverse Voltage from 5V up to 170V and Breakdown Voltage up to 200V. Typical fast response times are less than 1.0ns for unidirectional devices and less than 5.0ns for bidirectional devices from 0V to Minimum Breakdown Voltage. Polarity: Cathode band indicates unidirectional device, no cathode band indicates bidirectional device. Unidirectional and bidirectional devices have a 5% tolerance.

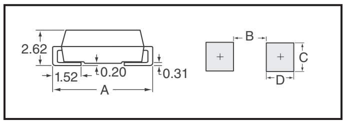

Series	Dimensions A	B	C	D
SMAJ	5.59	2.70	2.10	1.27
SMBJ	5.59	2.69	2.10	1.27
SMCJ	8.13	4.69	3.07	1.52
SMLJ	8.13	4.69	3.07	1.52

400 Watt – SMAJ Series

(Value) Working Peak Reverse Voltage V_{RWM} (Volts)	Breakdown Voltage (V_{BR})		Maximum Reverse Leakage @ V_{RWM} I_R(μA)
	Min.	Max.	
5.0	6.40	7.00	800/1600
6.0	6.67	7.37	800/1600
6.5	7.22	7.98	500/1000
7.0	7.78	8.60	200/400
7.5	8.33	9.21	100/200
8.0	8.89	9.83	50/100
8.5	9.44	10.4	10/20
9.0	10.0	11.1	5/10
10	11.1	12.3	5/10
11	12.2	13.2	5.0
12	13.3	14.7	5.0
13	14.4	15.9	5.0
14	15.6	17.2	5.0
15	16.7	18.5	5.0
16	17.8	19.7	5.0
17	18.9	20.9	5.0
18	20.0	22.1	5.0
20	22.2	24.5	5.0
22	24.4	26.9	5.0
24	26.7	29.5	5.0
26	28.9	31.9	5.0
28	31.1	34.4	5.0
30	33.3	36.8	5.0
33	36.7	40.6	5.0
36	40	44.2	5.0
40	44.4	49.1	5.0
43	47.8	52.8	5.0
45	50	55.3	5.0
48	53.3	58.9	5.0
51	56.7	62.7	5.0
54	60	66.3	5.0
58	64.4	71.2	5.0
60	66.7	73.7	5.0
64	71.1	78.6	5.0
70	77.8	86.0	5.0
75	83.3	92.1	5.0
78	86.7	95.8	5.0
85	94.4	104	5.0
90	100	111	5.0
100	111	123	5.0
110	122	135	5.0
120	133	147	5.0
130	144	159	5.0
150	167	185	5.0
160	178	197	5.0
170	189	209	5.0

600 Watt – SMBJ Series

(Value) Working Peak Reverse Voltage V_{RWM} (Volts)	Breakdown Voltage (V_{BR})		Maximum Reverse Leakage @ V_{RWM} I_R(μA)
	Min.	Max.	
5.0	6.40	7.25	800
6.0	6.67	7.67	800
6.5	7.22	8.30	500
7.0	7.78	8.95	200
7.5	8.33	9.58	100
8.0	8.89	10.2	50
8.5	9.44	10.8	20
9.0	10.0	11.5	10
10	11.1	12.8	5.0
11	12.2	14.4	5.0
12	13.3	15.3	5.0
13	14.4	16.5	5.0
14	15.6	17.9	5.0
15	16.7	19.2	5.0
16	17.8	20.5	5.0
17	18.9	21.7	5.0
18	20.0	23.3	5.0
20	22.2	25.5	5.0
22	24.4	28.0	5.0
24	26.7	30.7	5.0
26	28.9	32.2	5.0
28	31.1	35.8	5.0
30	33.3	38.3	5.0
33	36.7	42.2	5.0
36	40	46.0	5.0
40	44.4	51.1	5.0
43	47.8	54.9	5.0
45	50	57.5	5.0
48	53.3	61.3	5.0
51	56.7	65.2	5.0
54	60	69	5.0
58	64.4	74.6	5.0
60	66.7	76.7	5.0
64	71.1	81.8	5.0
70	77.8	89.5	5.0
75	83.3	95.8	5.0
78	86.7	99.7	5.0
85	94.4	109	5.0
90	100	116	5.0
100	111	128	5.0
110	122	140	5.0
120	133	153	5.0
130	144	165	5.0
150	167	192	5.0
160	178	205	5.0
170	189	218	5.0

1500 Watt – SMCJ Series

(Value) Working Peak Reverse Voltage V_{RWM} (Volts)	Breakdown Voltage (V_{BR})		Maximum Reverse Leakage @ V_{RWM} I_R(μA)
	Min.	Max.	
5.0	6.4	7.23	1000
6.0	6.67	7.67	1000
6.5	7.22	8.3	500
7.0	7.78	8.95	200
7.5	8.33	9.58	100
8.0	8.89	10.2	50
8.5	9.44	10.8	20
9.0	10	11.5	10
10	11.1	12.8	5
11	12.2	14.4	5
12	13.3	15.3	5
13	14.4	16.5	5
14	15.6	17.9	5
15	16.7	19.2	5
16	17.8	20.5	5
17	18.9	21.7	5
18	20	23.3	5
20	22.2	25.5	5
22	24.4	28	5
24	26.7	30.7	5
26	28.9	32.2	5
28	31.1	35.8	5
30	33.3	38.3	5
33	36.7	42.2	5
36	40	46	5
40	44.4	51.1	5
43	47.8	54.9	5
45	50	57.5	5
48	53.3	61.3	5
51	56.7	65.2	5
54	60	69	5
58	64.4	74.6	5
60	66.7	76.7	5
64	71.1	81.8	5
70	77.8	89.5	5
75	83.3	95.8	5
78	86.7	99.7	5
85	94.4	108.2	5
90	100	115.5	5
100	111	128	5
110	122	140	5
120	133	153	5
130	144	165	5
150	167	192	5
160	178	205	5
170	189	217.5	5

3000 Watt – SMLJ Series

(Value) Working Peak Reverse Voltage V_{RWM} (Volts)	Breakdown Voltage (V_{BR})		Maximum Reverse Leakage @ V_{RWM} I_R(μA)
	Min.	Max.	
5.0	6.40	7.82	1000
6.0	6.67	8.15	1000
6.5	7.22	7.98	500
7.0	7.78	8.6	200
7.5	8.33	9.21	100
8.0	8.89	9.83	50
8.5	9.44	10.43	25
9.0	10.00	11.05	10
10	11.10	12.27	5
11	12.20	13.50	5
12	13.30	14.70	5
13	14.40	15.90	5
14	15.60	17.20	5
15	16.70	18.50	5
16	17.80	19.70	5
17	18.90	20.90	5
18	20.00	22.10	5
20	22.20	24.50	5
22	24.40	27.00	5
24	26.70	29.50	5
26	28.90	31.90	5
28	31.10	34.40	5
30	33.30	36.80	5
33	36.70	40.60	5
36	40.00	44.20	5
40	44.40	49.10	5
43	47.80	52.80	5
45	50.00	55.30	5
48	53.30	58.90	5
51	56.70	62.70	5
54	60.00	66.30	5
58	64.40	71.20	5
60	66.70	73.70	5
64	71.10	78.60	5
70	77.80	86.00	5
75	83.30	92.10	5
78	86.70	95.80	5
85	94.40	104.30	5
90	100.00	110.50	5
100	111.00	122.70	5
110	122.00	134.80	5
120	133.00	147.00	5
130	144.00	159.20	5
150	167.00	184.60	5
160	178.00	196.70	5
170	189.00	208.90	5

Series	Watt	Description	Voltage Range (Value)	Digi-Key Part No.†	Price Each 1	10	100	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Bourns Part No.
SMAJ	400	Unidirectional	5.0 ~ 170	SMAJ(Value)ABCT-ND	.33	.18	.12	SMAJ(Value)ABTR-ND	5,000	72.00/M	SMAJ(Value)A
SMAJ	400	Bidirectional	5.0 ~ 170	SMAJ(Value)CABCT-ND	.38	.22	.14	SMAJ(Value)CABTR-ND	5,000	85.00/M	SMAJ(Value)CA
SMBJ	600	Unidirectional	5.0 ~ 170	SMBJ(Value)ABCT-ND	.33	.18	.12	SMBJ(Value)ABTR-ND	3,000	77.00/M	SMBJ(Value)A
SMBJ	600	Bidirectional	5.0 ~ 170	SMBJ(Value)CABCT-ND	.38	.22	.14	SMBJ(Value)CABTR-ND	3,000	91.00/M	SMBJ(Value)CA
SMCJ	1,500	Unidirectional	5.0 ~ 170	SMCJ(Value)ABCT-ND	.65	.38	.26	SMCJ(Value)ABTR-ND	3,000	189.00/M	SMCJ(Value)A
SMCJ	1,500	Bidirectional	5.0 ~ 170	SMCJ(Value)CABCT-ND	.71	.43	.29	SMCJ(Value)CABTR-ND	3,000	210.00/M	SMCJ(Value)CA
SMLJ	3,000	Unidirectional	5.0 ~ 170	SMLJ(Value)ABCT-ND	1.25	.80	.58	SMLJ(Value)ABTR-ND	3,000	464.00/M	SMLJ(Value)A
SMLJ	3,000	Bidirectional	5.0 ~ 170	SMLJ(Value)CABCT-ND	1.37	.87	.65	SMLJ(Value)CABTR-ND	3,000	522.00/M	SMLJ(Value)CA

† For complete part number, substitute (Value) from the Series Charts.

NEW! PortNote™ Solutions Kits

Bourns offers a variety of PortNote solutions and design kits for Datacom, Audio/Video and Telecom. Each PortNote design kit contains enough Bourns products to build five of the PortNote Solution circuits.

Description	Contents (Five Sets of Each)	Digi-Key Part No.	Price Each
Ethernet – ESD Protection	2 TVS Diode Arrays (CDSOT236-0504C) 1 Quad Transformer (PT61020L)	PN-DESIGNKIT-1-ND	16.80
Ethernet – Power Over Ethernet (PoE)	2 TVS Diode Arrays (CDNBS08-PLC03-3.3) 2 Rectifier Diode Arrays (CDNBS04-B08200) 1 Discrete TVS Diode (SMBJ58A) 1 Multifuse® PTC (MF-SMDF050)	PN-DESIGNKIT-2-ND	16.80
USB 2.0 – ESD and Overcurrent Protections	1 Multifuse PTC (MF-NSMF075) 3 ChipGuard® ESD Suppressors (CG0603MLC-05LE)	PN-DESIGNKIT-3-ND	16.80
USB 3.0 – ESD and Overcurrent Protection	1 Multifuse PTC (MF-NSMF200) 6 ChipGuard ESD Suppressors (CG0402MLU-05)	PN-DESIGNKIT-4-ND	16.80
VHF/UHF – Coaxial Port - ESD Protection	1 ChipGuard (CG0402MLU-12) 1 Multilayer Chip Inductor (CS160808-68NK)	PN-DESIGNKIT-5-ND	16.80
RJ11 SLIC Protection – ITU-T Dual Supply Voltage	1 Thyristor (TISP9110LDMR-S) 1 PTC (CMF-SDP35A)	PN-DESIGNKIT-6-ND	16.80
RJ11 SLIC Protection – GR-1089-CORE Dual Supply Voltage	1 Thyristor (TISP8200HDMR-S) 1 Thyristor (TISP8201HDMR-S) 2 Telecom Fuses (B1250T)	PN-DESIGNKIT-7-ND	16.80
RJ11 Fax/Modem (FXO)	1 Thyristors (TISP4250T3BJR-S) 1 Telecom Fuse (B2350T) 1 Diode Bridge (CD2320-B1600)	PN-DESIGNKIT-8-ND	16.80
VDSL - Driver Side Protection	1 GDT (2038-110-SM) 1 Thyristor (TISP4P015L1N) 1 Diode Bridge (CD143A-SR70)	PN-DESIGNKIT-9-ND	16.80
ISDN	2 Thyristors (TISP3145T3BJR-S) 4 Multifuse PTCs (MF-RX018/250)	PN-DESIGNKIT-10-ND	16.80
HDMI 1.3 – ESD and Overcurrent Protection	2 TVS Diode Arrays (CDDFN10-0524P) 1 TVS Diode Arrays (CDSOT236-0504LC) 1 Multifuse PTC (MF-FSMF020X)	PN-DESIGNKIT-11-ND	16.80
HDMI 1.4 – ESD and Overcurrent Protection	9 ChipGuard ESD Suppressors (CG0402MLU-05x) 1 Multifuse PTC (MF-NSMF020)	PN-DESIGNKIT-12-ND	16.80
T1/E1– ITU-T	2 Thyristors (TISP7015L1) 2 Fuses (B1250T)	PN-DESIGNKIT-13-ND	16.80

BOURNS®

TBU™ High-Speed Protectors

The TBU protector blocks surges and provides an effective barrier behind which sensitive electronics are not exposed to large voltages or currents during surge events.

UL recognized component File #E315805.

SERIES	Dimensions — mm (Inch) A (Typ.)	B (Typ.)	C (Typ.)	D (Typ.)
C650, C850	4.00 (.157)	8.25 (.325)	0.85 (.033)	0.025 (.001)
P40-G	4.00 (.157)	4.00 (.157)	0.85 (.033)	0.025 (.001)
P500-G	4.00 (.157)	6.00 (.236)	0.85 (.033)	0.025 (.001)
P850-G	4.00 (.157)	8.25 (.325)	0.85 (.033)	0.025 (.001)
P650-U, P850-U	6.25 (.246)	7.75 (.305)	0.85 (.033)	0.025 (.001)

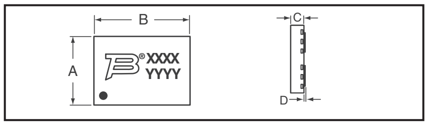

Max. Protection Impulse Faults Vimp	Max. Protection Cont. Faults Vrms	Current@ 25°C Iop mA (max.)	Itrigger mA (typ.)	Iout mA (max.)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Bourns Part No.
					Bidirectional						
650	300	100	150	200	C650-100-WHCT-ND	1.87	12.38	95.15	C650-100-WHTR-ND	770.00/M	C650-100-WH
650	300	180	220	360	C650-180-WHCT-ND	1.87	12.38	95.15	C650-180-WHTR-ND	770.00/M	C650-180-WH
650	300	260	330	520	C650-260-WHCT-ND	1.87	12.38	95.15	C650-260-WHTR-ND	770.00/M	C650-260-WH
850	425	180	220	360	C850-180-WHCT-ND	1.94	12.83	98.61	C850-180-WHTR-ND	798.00/M	C850-180-WH
850	425	260	330	520	C850-260-WHCT-ND	1.94	12.83	98.61	C850-260-WHTR-ND	798.00/M	C850-260-WH
40	28	240	350	480	P40-G240-WHCT-ND	1.46	9.36	70.20	P40-G240-WHTR-ND	546.00/M	P40-G240-WH
500	300	100	150	200	P500-G120-WHCT-ND	1.33	8.16	61.20	P500-G120-WHTR-ND	476.00/M	P500-G120-WH
500	300	200	275	400	P500-G200-WHCT-ND	1.33	8.16	61.20	P500-G200-WHTR-ND	476.00/M	P500-G200-WH
850	425	100	150	200	P850-G120-WHCT-ND	1.55	9.66	73.50	P850-G120-WHTR-ND	588.00/M	P850-G120-WH
850	425	200	275	400	P850-G200-WHCT-ND	1.55	9.66	73.50	P850-G200-WHTR-ND	588.00/M	P850-G200-WH
					Unidirectional						
650	300	180	220	360	P650-U180-WHCT-ND	2.01	13.28	102.07	P650-U180-WHTR-ND	826.00/M	P650-U180-WH
650	300	260	330	520	P650-U260-WHCT-ND	2.01	13.28	102.07	P650-U260-WHTR-ND	826.00/M	P650-U260-WH
850	425	180	220	360	P850-U180-WHCT-ND	2.07	13.42	105.53	P850-U180-WHTR-ND	854.00/M	P850-U180-WH
850	425	260	330	520	P850-U260-WHCT-ND	2.07	13.42	105.53	P850-U260-WHTR-ND	854.00/M	P850-U260-WH

TBU™ Design Kit

Kit contains 180 pieces, 10 each of the following:

(10) **G6000ASCT-ND** - GAS DISCHARGE TUBE 2 POLE 200V
(10) **G5000ASCT-ND** - GAS DISCHARGE TUBE 2 POLE 900V
(10) **G5500ASCT-ND** - GAS DISCHARGE TUBE 2 POLE 200V
(10) **G5200ASCT-ND** - GAS DISCHARGE TUBE 2 POLE 400V
(10) **P40-G240-WHCT-ND** - SURGE SUPP TBU 240MA 40VIMP SMD
(10) **P850-U260-WHCT-ND** - SURGE SUP TBU ETH 260MA 850VIMP
(10) **P850-U180-WHCT-ND** - SURGE SUP TBU ETH 180MA 850VIMP
(10) **P650-U260-WHCT-ND** - SURGE SUPP TBU ETH 260MA 650VIMP
(10) **P650-U180-WHCT-ND** - SURGE SUPP TBU ETH 180MA 650VIMP
(10) **C850-260-WHCT-ND** - SURGE SUPP TBU 260MA 850VIMP SMD
(10) **C850-180-WHCT-ND** - SURGE SUPP TBU 180MA 850VIMP SMD
(10) **P40-G240-WHX-ND** - CIRCUIT PROT 240MA 40VIMP TBU
(10) **P850-U260-WHX-ND** - CIRCUIT PROT ETH 260MA 850VIMP TBU
(10) **P850-U180-WHX-ND** - CIRCUIT PROT ETH 180MA 850VIMP TBU
(10) **P650-U260-WHX-ND** - CIRCUIT PROT ETH 260MA 650VIMP TBU
(10) **P650-U180-WHX-ND** - CIRCUIT PROT ETH 180MA 650VIMP TBU
(10) **C850-260-WHX-ND** - CIRCUIT PROT 260MA 850VIMP TBU
(10) **C850-180-WHX-ND** - CIRCUIT PROT 180MA 850VIMP TBU

TBU-DESIGNKIT-ND **$100.00**

TVS Diode Arrays

Features:
- Low Capacitance - 2.5pF
- ESD Protection
- Surge Protection

Applications:
- TVS Diode Array for High Speed Data ports
- Personal Digital Assistants (PDAs)

Fig. 1

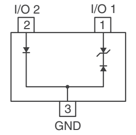

Fig. 2

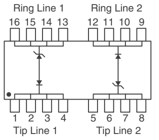

Fig. 3

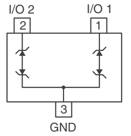

Fig.	Working Voltage	Breakdown Voltage @ 1mA	Leakage Current @ VWM (µA)	Cap. @ 0V, 1MHz (pF)	Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
1	2.8	3	1	2.5	3.9 @ 2A	CDSOT23-SLVU2.8CT-ND	1.17	1.08	.79	CDSOT23-SLVU2.8TR-ND	3,000	630.00/M	CDSOT23-SLVU2.8
2	6	8	25	50	15 @ 100A	CDWBS16-PLC01-6CT-ND	5.40	3.90	3.20	CDWBS16-PLC01-6TR-ND	1,000	2800.00	CDWBS16-PLC01-6
3	7/12	7.5/13.3	20/1	75	11 @ 1A	CDSOT23-SM712CT-ND	1.17	1.08	.79	CDSOT23-SM712TR-ND	3,000	630.00/M	CDSOT23-SM712

Steering / TVS Diode Arrays

Steering/TVS Diode Arrays for External Parts of Portable devices/Telecom applications: • Provides ESD, EFT and surge protection for the external ports of portable electronic devices • Protects Vcc and two data lines.
Low Capacitance Steering Diode/TVS Diode Array Combo: Will meet IEC 61000-4-2 (ESD), IEC 61000-4-4 (EFT) and IEC 6100-4-5 (Surge) requirements. **FEATURES**: • Protects 2 lines and 4 lines • ESD Protection • Low capacitance 8pF **APPLICATIONS**: Telecom Hand Held Electronics

Fig. 1

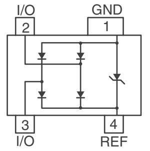

Fig. 2

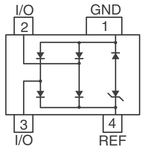

Fig. 3

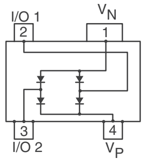

Fig. 4

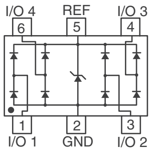

Fig. 5

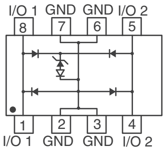

Fig. 6

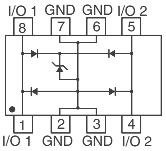

Fig. 7

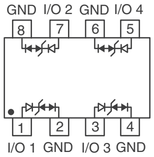

Fig. 8

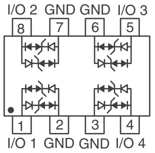

Fig. 9

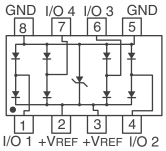

Fig.	Working Voltage	Breakdown Voltage @ 1mA	Leakage Current @ VWM (µA)	Capacitance @ 0V, 1MHz	Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
						Steering/TVS Diode Arrays for External Parts of Portable Devices/Telecom Applications							
1	5	6	5	10	9.8 @ 1A	CD143A-SR05CT-ND	1.20	.75	.56	CD143A-SR05TR-ND	3,000	420.00/M	CD143A-SR05
1	12	13.3	1	10	19 @ 1A	CD143A-SR12CT-ND	1.20	.75	.56	CD143A-SR12TR-ND	3,000	420.00/M	CD143A-SR12
2	2.8	3	1	4.5	5 @ 1A	CD143A-SR2.8CT-ND	1.20	.75	.56	CD143A-SR2.8TR-ND	3,000	420.00/M	CD143A-SR2.8
2	3.3	3.5	1	4.5	7 @ 1A	CD143A-SR3.3CT-ND	1.20	.75	.56	CD143A-SR3.3TR-ND	3,000	420.00/M	CD143A-SR3.3
3	70	85	1	10	1.5 @ 1A	CD143A-SR70CT-ND	1.05	.75	.56	CD143A-SR70TR-ND	3,000	420.00/M	CD143A-SR70
4	5	6	5	3.5	12 @ 1A	CDSOT23-SRV05-4CT-ND	1.17	1.08	.79	CDSOT23-SRV05-4TR-ND	3,000	630.00/M	CDSOT23-SRV05-4
						Low Capacitance Steering Diode/TVS Diode Array Combo							
5	3	3.3	2	20pF	18 @ 100A	CDNBS08-PLC03-3.3CT-ND	2.70	2.40	1.96	CDNBS08-PLC03-3.3TR-ND	2,500	1620.00/M	CDNBS08-PLC03-3.3
6	6	6.8	25	16pF	20 @ 100A	CDNBS08-PLC03-6CT-ND	2.40	2.16	1.96	CDNBS08-PLC03-6TR-ND	2,500	1680.00/M	CDNBS08-PLC03-6
7	2.8	3	1	6pF	8.5 @ 5A	CDNBS08-SLVU2.8-4CT-ND	2.04	1.35	1.04	CDNBS08-SLVU2.8-4TR-ND	2,500	840.00/M	CDNBS08-SLVU2.8-4
8	2.8	3	1	6pF	8.5 @ 5A	CDNBS08-SLVU2.8-8CT-ND	3.60	2.40	1.96	CDNBS08-SLVU2.8-8TR-ND	2,500	1680.00/M	CDNBS08-SLVU2.8-8
9	3.3	4	125	15pF	10.9 @ 43A	CDNBS08-SRDA3.3-4CT-ND	2.04	1.35	1.04	CDNBS08-SRDA3.3-4TR-ND	2,500	840.00/M	CDNBS08-SRDA3.3-4
9	5	6	20	15pF	13.5 @ 42A	CDNBS08-SRDA05-4CT-ND	2.04	1.35	1.04	CDNBS08-SRDA05-4TR-ND	2,500	840.00/M	CDNBS08-SRDA05-4

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TISP4CxxxH3BJ Series – Bidirectional Thyristor Overvoltage Protectors

This device is designed to limit overvoltages on the telephone line. Overvoltages are normally caused by A.C. power systems or lightning flash disturbances which are induced or conducted on to the telephone line. A single device provides 2-point protection and is typically used for the protection of 2-wire telecommunication equipment (e.g. between the Ring and Tip wires for telephones and modems). Combinations of devices can be used for multi-point protection (e.g. 3-point protection between Ring, Tip and Ground). These devices are housed in a surface mount SMB (DO-214AA) package.

The protector consists of a symmetrical voltage-triggered bidirectional thyristor. Overvoltages are initially clipped by breakdown clamping until the voltage rises to the breakover level, which causes the device to crowbar into a low-voltage on state. This low-voltage on state causes the current resulting from the overvoltage to be safely diverted through the device. The high crowbar holding current prevents D.C. latchup as the diverted current subsides.

Dimensions in Inch (mm)

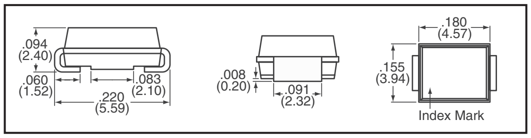

Protection Voltage V(BO) V	VDRM V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Bourns Part No.
125	100	TISP4C125H3BJR-SCT-ND	.98	.60	.44	TISP4C125H3BJR-STR-ND	334.00/M	TISP4C125H3BJR-S
180	145	TISP4C180H3BJR-SCT-ND	.98	.60	.44	TISP4C180H3BJR-STR-ND	334.00/M	TISP4C180H3BJR-S
220	180	TISP4C220H3BJR-SCT-ND	.98	.60	.44	TISP4C220H3BJR-STR-ND	334.00/M	TISP4C220H3BJR-S
250	190	TISP4C250H3BJR-SCT-ND	.98	.60	.44	TISP4C250H3BJR-STR-ND	334.00/M	TISP4C250H3BJR-S
395	320	TISP4C395H3BJR-SCT-ND	.98	.60	.44	TISP4C395H3BJR-STR-ND	334.00/M	TISP4C395H3BJR-S

FVC Series — Bidirectional Thyristor Overvoltage Protectors

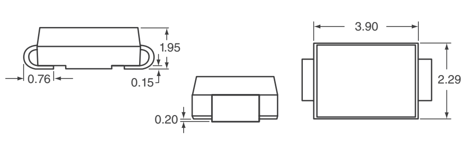

Surge Rating Ipp (A)	VDRM V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Bourns Part No.
4	190	FVC2300BKCT-ND	.30	.28	.21	FVC2300BKTR-ND	173.00/M	FVC2300BK
4	275	FVC3100BKCT-ND	.30	.28	.21	FVC3100BKTR-ND	173.00/M	FVC3100BK

Integrated Complementary Buffered-Gate SCRS for Dual Polarity SLIC Overvoltage Protection

High Performance Protection for SLICs with +ve and -ve battery supplies

Features:

- Wide -110V to 110V Programming Range
- Low 5mA maximum Gate Triggering Current
- Dynamic Protection Performance Specified for International Surge Waveshapes
- 8-SOIC Package

Applications Include:

- Wireless Local Loop
- Access Equipment
- Regenerated POTS
- VOIP Applications

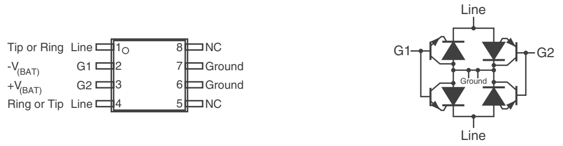

Protection Voltage V (BO) (V)	VDRM VG1	VG2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Bourns Part No.
-110 ~ 110	-120	120	TISP9110LDMR-SCT-ND	2.44	1.65	1.28	TISP9110LDMR-STR-ND	1050.00/M	TISP9110LDMR-S

Forward-Conducting P-Gate Thyristors, Programmable Overvoltage Protectors

Fig. 1

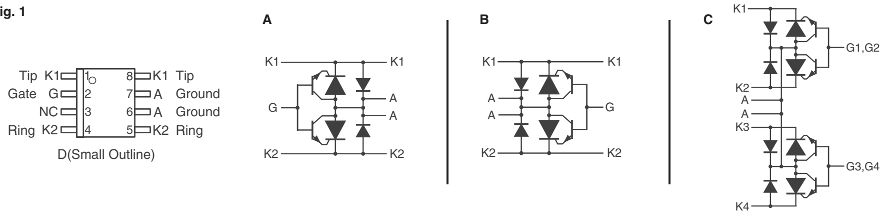

DUAL FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS:

• TISP61089 Gated Protector Series: Dual Voltage-Tracking Protectors: • '61089 for Battery Voltages to: -75V • '61089A for Battery Voltages to: -100V • Low Gate Triggering Current: <5mA • High Holding Current: >150mA • TISP61089B High Voltage Ringing SLIC Protector: Dual Voltage-Programmable Protectors: • Supports Battery Voltages Down to: -155V • Low Gate Triggering Current: <5mA Maximum • High Holding Current: >150mA Minimum • TISP61089HDM Overvoltage Protector: Dual Voltage-Programmable SLIC Protector: • Supports Battery Voltages Down to -155V • Low Gate Triggering Current: <15mA Maximum • High Holding Current: >150mA Minimum

QUAD FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS:

• TISP6NTP2A Programmable Protector: Independent Overvoltage Protection for Two SLICs in Short Loop Applications: • Wide 0 ~ -90V Programming Range • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (85°C) Holding Current • Specified 1.2/50 and 0.5/700 Limiting Voltage • Full -40°C ~ 80°C Temperature Range • TISP6NTP2C High Voltage Ringing SLIC Protector: Independent Tracking Overvoltage Protection for Two SLICs: • Dual Voltage-Programmable Protectors • Supports Battery Voltages Down to -155V • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (70°C) Holding Current • Specified 2/10 Limiting Voltage • Small Outline Surface Mount Package • Full 0°C ~ 70°C Temperature Range

Fig.	Protection Voltage V(BO) (V)	VDRM	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
1A	0 ~ -85	-100	TISP61089DR-SCT-ND	1.55	.97	.74	TISP61089DR-STR-ND	2,500	588.00/M	TISP61089DR-S
	0 ~ -120	-120	TISP61089ADR-SCT-ND	1.55	.97	.74	TISP61089ADR-STR-ND	2,500	588.00/M	TISP61089ADR-S
	0 ~ -155	-170	TISP61089HDMR-SCT-ND	3.45	2.30	1.88	TISP61089HDMR-STR-ND	2,000	1581.00/M	TISP61089HDMR-S
1B	0 ~ -170	-170	TISP61089BDR-SCT-ND	1.55	.97	.74	TISP61089BDR-STR-ND	2,500	588.00/M	TISP61089BDR-S
1C	0 ~ -90	-100	TISP6NTP2ADR-SCT-ND	2.04	1.32	1.04	TISP6NTP2ADR-STR-ND	2,500	840.00/M	TISP6NTP2ADR-S
	0 ~ -170	-170	TISP6NTP2CDR-SCT-ND	2.04	1.32	1.02	TISP6NTP2CDR-STR-ND	2,500	840.00/M	TISP6NTP2CDR-S

ON Semiconductor™

Transient Voltage Suppressors

Surface Mount

Package	Watts	Breakdown Voltage VBR Min.	Nom.	Max.	VRWM Min.(V)	IR @ VRWM (μA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
							Uni-Directional						
POWERMITE	200	6.4	6.7	7	5	800	1PMT5.0AT1GOSCT-ND	.58	4.63	34.71	1PMT5.0AT1GOSTR-ND	3,000	163.00/M
	200	13.3	14.0	14.7	12	5.0	1PMT12AT1GOSCT-ND	.58	4.63	34.71	1PMT12AT1GOSTR-ND	3,000	163.00/M
SOD-123FL	200	36.7	38.7	40.6	33	1.0	SMF33AT1GOSCT-ND	.50	3.96	29.70	SMF33AT1GOSTR-ND	3,000	140.00/M
SMA	400	6.4	6.7	7	5	400	1SMA5.0AT3GOSCT-ND	.51	4.03	27.55	1SMA5.0AT3GOSTR-ND	5,000	109.00/M
	400	36.7	38.65	40.6	33	2.5	1SMA33AT3GOSCT-ND	.51	4.03	27.55	1SMA33AT3GOSTR-ND	5,000	109.00/M
SMB	600	10.0	10.55	11.1	9	5	1SMB9.0AT3GOSCT-ND	.52	4.11	28.13	1SMB9.0AT3GOSTR-ND	2,500	119.00/M
	600	12.4	13.05	13.7	11.1	5	P6SMB13AT3GOSCT-ND	.54	4.28	29.32	P6SMB13AT3GOSTR-ND	2,500	124.00/M
	600	17.1	18	18.9	15.3	5	P6SMB18AT3GOSCT-ND	.54	4.28	29.32	P6SMB18AT3GOSTR-ND	2,500	124.00/M
	600	19	20	21	17.1	5	P6SMB20AT3GOSCT-ND	.54	4.28	29.32	P6SMB20AT3GOSTR-ND	2,500	124.00/M
	600	31.4	33.05	34.7	28.2	5	P6SMB33AT3GOSCT-ND	.54	4.28	29.32	P6SMB33AT3GOSTR-ND	2,500	124.00/M
	600	58.9	62	65.1	53	5	P6SMB62AT3GOSCT-ND	.54	4.28	29.32	P6SMB62AT3GOSTR-ND	2,500	124.00/M
	600	64.6	68	71.4	58.1	5	P6SMB68AT3GOSCT-ND	.54	4.28	29.32	P6SMB68AT3GOSTR-ND	2,500	124.00/M
SMC	1500	44.7	47	49.4	40.2	5	1.5SMC47AT3GOSCT-ND	.75	6.01	45.08	1.5SMC47AT3GOSTR-ND	2,500	212.00/M
	1500	71.3	75	78.8	64.1	5	1.5SMC75AT3GOSCT-ND	.75	6.01	45.08	1.5SMC75AT3GOSTR-ND	2,500	212.00/M
	1500	86.5	91	95.5	77.8	5	1.5SMC91AT3GOSCT-ND	.75	6.01	45.08	1.5SMC91AT3GOSTR-ND	2,500	212.00/M
SOD-523	120	4.0	—	—	2.5 max.	6	ESD5Z2.5T1GOSCT-ND	.58	3.91	18.40	ESD5Z2.5T1GOSTR-ND	3,000	54.00/M
	158	5.0	—	—	3.3 max.	0.05	ESD5Z3.3T1GOSCT-ND	.58	3.91	18.40	ESD5Z3.3T1GOSTR-ND	3,000	54.00/M
	174	6.2	—	—	5 max.	0.05	ESD5Z5.0T1GOSCT-ND	.58	3.91	18.40	ESD5Z5.0T1GOSTR-ND	3,000	54.00/M
	181	6.8	—	—	6 max.	0.01	ESD5Z6.0T1GOSCT-ND	.58	3.91	18.40	ESD5Z6.0T1GOSTR-ND	3,000	54.00/M
SOD-923	—	5.4	—	—	5 max.	1	ESD9L5.0ST5GOSCT-ND	.66	5.28	39.60	ESD9L5.0ST5GOSTR-ND	8,000	174.00/M
	—	5.0	—	—	3.3 max.	2.5	ESD9X3.3ST5GOSCT-ND	.75	5.07	23.85	ESD9X3.3ST5GOSTR-ND	8,000	60.00/M
SOT-323-5	20	6.4	6.8	7.1	5 typ.	1	NSQA6V8AW5T2GOSCT-ND	.44	3.42	23.40	NSQA6V8AW5T2GOSTR-ND	3,000	99.00/M
SC-74	24	5.89	6.2	6.51	4 typ.	700nA	MMQA6V2T1GOSCT-ND	.58	4.13	27.50	MMQA6V2T1GOSTR-ND	3,000	99.00/M
SC-88A	150	6.1	6.6	7.2	3 typ.	1	MSQA6V1W5T2GOSCT-ND	.52	3.73	22.36	MSQA6V1W5T2GOSTR-ND	3,000	75.00/M
							Dual Uni-Directional						
SOT-23	24	5.32	5.6	5.88	3	5	MMBZ5V6ALT1GOSCT-ND	.55	3.75	17.62	MMBZ5V6ALT1GOSTR-ND	3,000	51.77/M
	24	5.89	6.2	6.51	3	0.5	MMBZ6V2ALT1GOSCT-ND	.55	3.75	17.62	MMBZ6V2ALT1GOSTR-ND	3,000	51.77/M
	24	6.46	6.8	7.14	4.5	0.5	MMBZ6V8ALT1GOSCT-ND	.55	3.75	17.62	MMBZ6V8ALT1GOSTR-ND	3,000	52.00/M
	40	14.25	15	15.75	12	0.05	MMBZ15VALT1GOSCT-ND	.55	3.75	17.62	MMBZ15VALT1GOSTR-ND	3,000	51.77/M
	40	14.3	15	15.8	12.8	0.1	MMBZ15VDLT1GOSCT-ND	.55	3.75	17.62	MMBZ15VDLT1GOSTR-ND	3,000	51.77/M
	40	17.10	18	18.90	14.5	50	MMBZ18VALT1GOSCT-ND	.55	3.75	17.62	MMBZ18VALT1GOSTR-ND	3,000	52.00/M
	40	19.00	20	21.00	17	0.05	MMBZ20VALT1GOSCT-ND	.55	3.75	17.62	MMBZ20VALT1GOSTR-ND	3,000	51.77/M
	40	25.65	27	28.35	22	50nA	MMBZ27VALT1GOSCT-ND	.55	3.75	17.62	MMBZ27VALT1GOSTR-ND	3,000	52.00/M
	40	25.65	27	28.35	22	0.05	MMBZ27VCLT1GOSCT-ND	.55	3.75	17.62	MMBZ27VCLT1GOSTR-ND	3,000	51.77/M
	40	31.35	33	34.65	26	0.05	MMBZ33VALT1GOSCT-ND	.55	3.75	17.62	MMBZ33VALT1GOSTR-ND	3,000	52.00/M
SC-88	100	6.2	6.7	7.2	5 max.	5	SMF05CT1GOSCT-ND	.58	4.56	31.20	SMF05CT1GOSTR-ND	3,000	132.00/M
							Bi-Directional						
SOT-23	300	6	7	8	5	20	SL05T1GOSCT-ND	.55	4.40	33.00	SL05T1GOSTR-ND	3,000	155.00/M
	300	16.7	17.6	18.5	15	1	SL15T1GOSCT-ND	.55	4.40	33.00	SL15T1GOSTR-ND	3,000	155.00/M
SMA	400	11.1	11.69	12.27	10	2.5	1SMA10CAT3GOSCT-ND	.60	4.72	32.26	1SMA10CAT3GOSTR-ND	5,000	128.00/M
	400	16.7	17.58	18.46	15	2.5	1SMA15CAT3GOSCT-ND	.60	4.72	32.26	1SMA15CAT3GOSTR-ND	5,000	128.00/M
	400	36.7	38.63	40.56	33	2.5	1SMA33CAT3GOSCT-ND	.60	4.72	32.26	1SMA33CAT3GOSTR-ND	5,000	128.00/M
SMB	600	11.4	12	12.6	10.2	5	P6SMB12CAT3GOSCT-ND	.50	3.97	29.76	P6SMB12CAT3GOSTR-ND	2,500	140.00/M
	600	17.1	18	18.9	15.3	5	P6SMB18CAT3GOSCT-ND	.50	3.97	29.76	P6SMB18CAT3GOSTR-ND	2,500	140.00/M
	600	31.4	33.05	34.7	28.2	5	P6SMB33CAT3GOSCT-ND	.50	3.97	29.76	P6SMB33CAT3GOSTR-ND	2,500	140.00/M
SOD-523	50	5.8	6.8	7.8	5 max.	1	ESD5B5.0ST1GOSCT-ND	.43	3.07	18.40	ESD5B5.0ST1GOSTR-ND	3,000	61.00/M

POWERMITE®

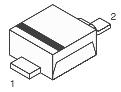

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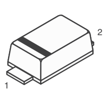

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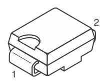

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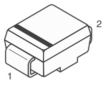

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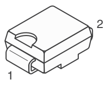

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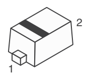

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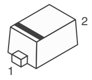

SOT-323-5, SC-88A

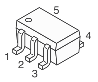

SC-74

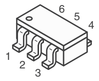

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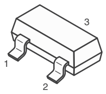

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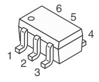

Axial

Mini-MOSORB™

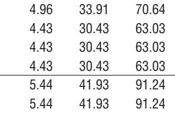

MOSORB™, Surmetic™

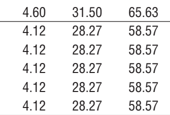

Package	Watts	Breakdown Voltage VBR Minimum	Nominal	Maximum	VRWM Minimum (V)	IR @ VRWM (μA)	Digi-Key Part No.	Pricing 1	10	100	250	Tape and Reel† Qty.	Pricing
							Uni-Directional						
Mini-MOSORB™	500	6.4	6.7	7	5	600	SA5.0AGOS-ND	.57	4.43	30.43	63.03	—	—
	500	6.4	6.7	7	5	600	SA5.0ARLGOSCT-ND	.63	4.96	33.91	70.64	5,000	135.00/M
	500	6.67	7.02	7.37	6	600	SA6.0AGOS-ND	.57	4.43	30.43	63.03	—	—
	500	16.7	17.6	18.5	15	1	SA15AGOS-ND	.57	4.43	30.43	63.03	—	—
	500	26.7	28.1	29.5	24	1	SA24AGOS-ND	.57	4.43	30.43	63.03	—	—
MOSORB™	1500	6.0	—	—	5	300	1N5908GOS-ND	.62	5.44	41.93	91.24	—	—
	1500	6.0	—	—	5	300	1N6373GOS-ND	.62	5.44	41.93	91.24	—	—
	1500	6.45	6.8	7.14	5.8	1000	1N6267AGOS-ND	.62	5.44	41.93	91.24	—	—
	1500	19	20	21	17.1	5	1N6278AGOS-ND	.62	5.44	41.93	91.24	—	—
	1500	28.5	30	31.5	25.6	5	1N6282AGOS-ND	.62	5.44	41.93	91.24	—	—
	1500	64.6	68	71.4	58.1	5	1N6291AGOS-ND	.62	5.44	41.93	91.24	—	—
	1500	71.3	75	78.8	64.1	5	1N6292AGOS-ND	.62	5.44	41.93	91.24	—	—
Surmetic™	600	6.45	6.8	7.14	5.8	1000	P6KE6.8AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	6.45	6.8	7.14	5.8	1000	P6KE6.8ARLGOSCT-ND	.59	4.60	31.50	65.63	4,000	133.00/M
	600	11.4	12	12.6	10.2	5	P6KE12AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	17.1	18	18.9	15.3	5	P6KE18AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	17.1	18	18.9	15.3	5	P6KE18ARLGOSCT-ND	.59	4.60	31.50	65.63	4,000	133.00/M
	600	22.8	24	25.2	20.5	5	P6KE24AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	28.5	30	31.5	25.6	5	P6KE30AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	31.4	33.05	34.7	28.8	5	P6KE33AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	34.2	36	37.8	30.8	5	P6KE36AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	37.1	39	41	33.3	5	P6KE39AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	48.5	51.05	53.6	43.6	5	P6KE51AGOS-ND	.53	4.12	28.27	58.57	—	—
	600	190	200	210	171	5	P6KE200AGOS-ND	.47	3.97	29.81	64.58	—	—

† For Tape and Reel part number, change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

Transil™ Series

Fig. 1 — DO-201

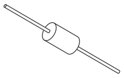

Fig. 2 — DO-15

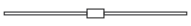

Fig. 3 — SMA, SMB, SMC

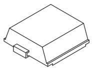

Fig. 4 — SOT-23, SOT323

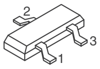

Fig. 5 — 8-SOIC

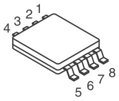

Fig. 6 — Flip Chip

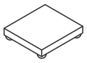

Fig. 7 — SOT23-6L

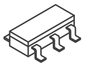

Fig. 8 — SOT-665, SOT-666, SOT-666IP

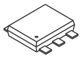

Fig. 9 — SOD-882, SOD-882T

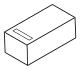

Fig. 10 — Micro DFN *NEW!*

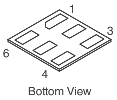

Fig. 11 — SOT-883, 0201

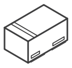

Fig. 12 — 6-QFN

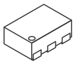

Fig. 13 — SOT-323-6

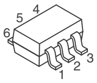

Fig. 14 — 20-SOIC

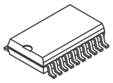

Fig. 15 — R6

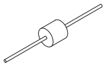

Fig. 16 — SOT323-5L

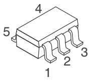

Fig. 17 — STmite

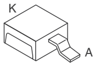

Fig. 18 — STmite flat

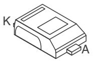

Fig. 19 — SOD-323

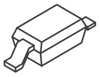

Fig. 20 — SOT-23-5

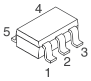

Fig. 21 — SMAFLAT

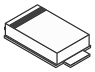

Fig. 22 — µQFN *NEW!*

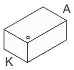

Fig.	Pw (W)	Breakdown Voltage			VRM (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
						Bi-Directional — RoHS Compliant							
1	1500	6.45	6.8	7.14	5.8	497-6609-1-ND	.92	7.98	63.00	497-6609-2-ND	1,900	336.00/M	1.5KE6V8CARL
	1500	14.3	15	15.8	12.8	497-7049-1-ND	.71	6.17	48.72	497-7049-2-ND	1,900	260.00/M	1.5KE15CARL
	1500	22.8	24	25.2	20.5	497-6645-1-ND	.92	7.98	63.00	497-6645-3-ND†	600	252.00	1.5KE24CA
	1500	31.4	33	34.7	28.2	497-6646-1-ND	.81	7.03	55.50	497-6646-2-ND	600	222.00	1.5KE33CA
	1500	44.7	47	49.4	40.2	497-7051-1-ND	.83	7.18	56.70	497-7051-2-ND	1,900	302.00/M	1.5KE47CARL
	1500	209	220	231	188	497-6599-1-ND	.92	7.98	63.00	497-6599-3-ND†	600	252.00	1.5KE220CA
	1500	209	220	231	188	497-6600-1-ND	.92	7.98	63.00	497-6600-2-ND	1,900	336.00/M	1.5KE220CARL
	1500	237	250	263	213	497-6602-1-ND	.92	7.98	63.00	497-6602-2-ND	1,900	336.00/M	1.5KE250CARL
	1500	285	300	315	256	497-6603-1-ND	.92	7.98	63.00	497-6603-3-ND†	600	252.00	1.5KE300CA
	1500	380	400	420	342	497-6608-1-ND	.88	7.60	60.00	497-6608-2-ND	1,900	320.00/M	1.5KE400CARL
	1500	380	400	420	342	497-2909-1-ND	.92	7.98	63.00	497-2909-3-ND†	600	252.00	1.5KE400CA
2	400	17.1	—	—	15.3	497-6625-1-ND	.64	5.10	38.28	497-6625-3-ND†	1,000	197.20	BZW04-15B
	400	418	—	—	376	497-7737-1-ND	.64	5.10	38.28	497-7737-2-ND	6,000	168.00/M	BZW04-376BRL
	600	6.45	6.8	7.14	5.8	497-6469-1-ND	.57	4.58	34.32	497-6469-3-ND†	1,000	176.80	P6KE6V8CA
	600	34.2	36	37.8	30.8	497-6468-1-ND	.69	5.54	41.58	497-6468-3-ND†	1,000	214.20	P6KE36CA
	600	53.2	—	—	47.8	497-4188-1-ND	.35	2.76	18.91	497-4188-2-ND	6,000	75.00/M	BZW04-48RL
	600	44.7	47	49.4	40.2	497-4288-1-ND	.50	4.00	30.03	497-4288-2-ND	6,000	132.00/M	P6KE47CARL
	600	143	150	158	128	497-4285-1-ND	.58	4.62	34.65	497-4285-2-ND	6,000	152.00/M	P6KE150CARL
	600	237	250	263	213	497-4619-1-ND	.63	5.02	37.62	497-4619-2-ND	6,000	165.00/M	P6KE250CARL
	600	—	—	—	37	497-6626-1-ND	.69	5.54	41.58	497-6626-3-ND†	1,000	214.20	BZW06-37B
3 (SMA)	400	6.4	—	—	5.0	497-6508-1-ND	.58	4.62	34.65	497-6508-2-ND	5,000	152.00/M	SMAJ5.0CA-TR
	400	6.7	—	—	6.0	497-6510-1-ND	.50	3.96	29.70	497-6510-2-ND	5,000	131.00/M	SMAJ6.0CA-TR
	400	7.2	—	—	6.5	497-7896-1-ND	.50	3.96	29.70	497-7896-2-ND	5,000	131.00/M	SMAJ6.5CA-TR
	400	13.3	—	—	12	497-2996-1-ND	.50	3.96	29.70	497-2996-2-ND	5,000	131.00/M	SMAJ12CA-TR
	400	14.4	—	—	13	497-7890-1-ND	.50	3.96	29.70	497-7890-2-ND	5,000	131.00/M	SMAJ13CA-TR
	400	16.7	—	—	15	497-2997-1-ND	.58	4.62	34.65	497-2997-2-ND	5,000	152.00/M	SMAJ15CA-TR
	400	20.0	—	—	18	497-7446-1-ND	.50	3.96	29.70	497-7446-2-ND	5,000	131.00/M	SMAJ18CA-TR
	400	31.1	—	—	28	497-4620-1-ND	.50	3.96	29.70	497-4620-2-ND	5,000	131.00/M	SMAJ28CA-TR
	400	33.3	—	—	30	497-7447-1-ND	.50	3.96	29.70	497-7447-2-ND	5,000	131.00/M	SMAJ30CA-TR
	400	36.7	—	—	33	497-2998-1-ND	.58	4.62	34.65	497-2998-2-ND	5,000	152.00/M	SMAJ33CA-TR
	400	44.4	—	—	40	497-3718-1-ND	.50	3.96	29.70	497-3718-2-ND	5,000	131.00/M	SMAJ40CA-TR
	400	47.8	—	—	43	497-7893-1-ND	.50	3.96	29.70	497-7893-2-ND	5,000	131.00/M	SMAJ43CA-TR
	400	64.4	—	—	58	497-6509-1-ND	.50	3.96	29.70	497-6509-2-ND	5,000	131.00/M	SMAJ58CA-TR
	400	94.4	—	—	85	497-7897-1-ND	.50	3.96	29.70	497-7897-2-ND	5,000	131.00/M	SMAJ85CA-TR
	400	189	—	—	170	497-6506-1-ND	.50	3.96	29.70	497-6506-2-ND	5,000	131.00/M	SMAJ170CA-TR
	400	209	—	—	188	497-7891-1-ND	.50	3.96	29.70	497-7891-2-ND	5,000	131.00/M	SMAJ188CA-TR
	600	77.8	—	—	70	497-4291-1-ND	.58	4.62	34.65	497-4291-2-ND	5,000	152.00/M	SMAJ70CA-TR
	600	6.4	6.74	7.07	5.0	497-5939-1-ND	.61	4.84	36.30	497-5939-2-ND	5,000	160.00/M	SMA6J5.0CA-TR
	600	6.7	7.05	7.41	6.0	497-5943-1-ND	.61	4.84	36.30	497-5943-2-ND	5,000	160.00/M	SMA6J6.0CA-TR
	600	7.2	7.58	7.96	6.5	497-5945-1-ND	.56	4.20	33.00	497-5945-2-ND	5,000	160.00/M	SMA6J6.5CA-TR
	600	9.4	9.9	10.4	8.5	497-5949-1-ND	.56	4.20	33.00	497-5949-2-ND	5,000	160.00/M	SMA6J8.5CA-TR
	600	11.1	11.7	12.3	10	497-5916-1-ND	.61	4.84	36.30	—	—	—	SMAJ10CA-TR
	600	13.3	14.0	14.7	12	497-5918-1-ND	.61	4.84	36.30	497-5918-2-ND	5,000	160.00/M	SMA6J12CA-TR
	600	14.4	15.2	15.9	13	497-5920-1-ND	.61	4.84	36.30	497-5920-2-ND	5,000	160.00/M	SMA6J13CA-TR
	600	16.7	17.6	18.5	15	497-5922-1-ND	.61	4.84	36.30	497-5922-2-ND	5,000	160.00/M	SMA6J15CA-TR
	600	26.7	28.1	29.5	24	497-5928-1-ND	.61	4.84	36.30	497-5928-2-ND	5,000	160.00/M	SMA6J24CA-TR
	600	28.9	30.4	31.9	26	497-5930-1-ND	.56	4.20	33.00	497-5930-2-ND	5,000	160.00/M	SMA6J26CA-TR
	600	31.1	32.7	34.4	28	497-7888-1-ND	.58	4.62	34.65	497-7888-2-ND	5,000	152.00/M	SMA6J28CA-TR
	600	36.7	38.6	40.6	33	497-5933-1-ND	.61	4.84	36.30	497-5933-2-ND	5,000	160.00/M	SMA6J33CA-TR
	600	44.4	46.7	49.1	40	497-5935-1-ND	.58	4.62	34.65	497-5935-2-ND	5,000	160.00/M	SMA6J40CA-TR
	600	53.3	56.1	58.9	48	497-5937-1-ND	.56	4.20	33.00	497-5937-2-ND	5,000	160.00/M	SMA6J48CA-TR
	600	64.4	67.8	71.2	58	497-5941-1-ND	.56	4.20	33.00	497-5941-2-ND	5,000	160.00/M	SMA6J58CA-TR
	600	94	99	104	85	497-7889-1-ND	.61	4.84	36.30	497-7889-2-ND	5,000	160.00/M	SMA6J85CA-TR
	600	111	117	123	100	497-7883-1-ND	.61	4.84	36.30	497-7883-2-ND	5,000	160.00/M	SMA6J100CA-TR
	600	144	152	159	130	497-7884-1-ND	.61	4.84	36.30	497-7884-2-ND	5,000	160.00/M	SMA6J130CA-TR
	600	171	180	189	154	497-7885-1-ND	.61	4.84	36.30	497-7885-2-ND	5,000	160.00/M	SMA6J154CA-TR
	600	189	199	209	170	497-7886-1-ND	.61	4.84	36.30	497-7886-2-ND	5,000	160.00/M	SMA6J170CA-TR
	600	209	220	231	188	497-7887-1-ND	.61	4.84	36.30	497-7887-2-ND	5,000	160.00/M	SMA6J188CA-TR
3 (SMB)	600	—	—	35	22	497-3719-1-ND	.96	8.57	68.04	497-3719-2-ND	2,500	353.00/M	SMP100-LC-25
	600	—	—	15	6.0	497-3721-1-ND	1.52	13.57	107.73	497-3721-2-ND	2,500	559.00/M	SMP75-8
	600	—	—	15	6.0	497-3720-1-ND	1.40	12.51	99.36	497-3720-2-ND	2,500	515.00/M	SMP100-LC-8
	600	—	—	133	90	497-3722-1-ND	.97	8.40	66.30	497-3722-2-ND	2,500	320.00/M	SMTPA100
	600	—	—	240	162	497-3723-1-ND	.88	7.60	60.00	497-3723-2-ND	2,500	290.00/M	SMTPA180
	600	—	—	360	243	497-3724-1-ND	1.02	8.78	69.30	497-3724-2-ND	2,500	335.00/M	SMTPA270

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

Transil™ Series *(Cont.)*

Fig.	Pw (W)	Breakdown Voltage			VRM (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
3 (SMB)	600	6.45	6.8	7.14	5.8	497-2995-1-ND	.64	5.10	38.28	497-2995-2-ND	2,500	180.00/M	SM6T6V8CA
	600	6.7	—	—	6.0	497-7454-1-ND	.50	3.96	29.70	497-7454-2-ND	2,500	140.00/M	SMBJ6.0CA-TR
	600	7.13	7.5	7.88	6.4	497-6502-1-ND	.58	4.62	34.65	497-6502-2-ND	2,500	163.00/M	SM6T7V5CA
	600	9.4	—	—	8.5	497-7455-1-ND	.50	4.00	30.03	497-7455-2-ND	2,500	141.00/M	SMBJ8.5CA-TR
	600	9.5	10	10.5	8.55	497-7427-1-ND	.53	4.27	32.01	497-7427-2-ND	2,500	150.00/M	SM6T10CA
	600	11.4	12	12.6	10.2	497-7428-1-ND	.54	4.36	32.67	497-7428-2-ND	2,500	153.00/M	SM6T12CA
	600	14.3	15	15.8	12.8	497-2994-1-ND	.64	5.10	38.28	497-2994-2-ND	2,500	180.00/M	SM6T15CA
	600	14.4	—	—	13	497-7898-1-ND	.92	7.98	63.00	497-7898-2-ND	2,500	305.00/M	SMBJ13CA-TR
	600	16.7	—	—	15	497-3004-1-ND	.50	3.96	29.70	497-3004-2-ND	2,500	140.00/M	SMBJ15CA-TR
	600	17.1	18	18.9	15.3	497-3717-1-ND	.64	5.10	38.28	497-3717-2-ND	2,500	180.00/M	SM6T18CA
	600	20	—	—	18	497-6512-1-ND	.50	3.96	29.70	497-6512-2-ND	2,500	140.00/M	SMBJ18CA-TR
	600	20.9	22	23.1	18.8	497-3507-1-ND	.92	7.98	63.00	497-3507-2-ND	2,500	305.00/M	SM6T22CA
	600	22.2	—	—	20	497-6513-1-ND	.50	3.96	29.70	497-6513-2-ND	2,500	140.00/M	SMBJ20CA-TR
	600	22.8	24	25.2	20.5	497-7434-1-ND	.53	4.27	32.01	497-7434-2-ND	2,500	150.00/M	SM6T24CA
	600	24.4	—	—	22	497-5725-1-ND	.53	4.27	32.01	497-5725-2-ND	2,500	150.00/M	SMBJ22CA-TR
	600	25.7	27	28.4	23.1	497-7436-1-ND	.53	4.27	32.01	497-7436-2-ND	2,500	150.00/M	SM6T27CA
	600	28.5	30	31.5	25.6	497-6492-1-ND	.53	4.27	32.01	497-6492-2-ND	2,500	150.00/M	SM6T30CA
	600	31.4	33	34.7	28.2	497-6494-1-ND	.53	4.27	32.01	497-6494-2-ND	2,500	150.00/M	SM6T33CA
	600	34.2	36	37.8	30.8	497-6496-1-ND	.53	4.27	32.01	497-6496-2-ND	2,500	150.00/M	SM6T36CA
	600	37.1	39	41	33.3	497-6498-1-ND	.81	7.03	55.50	497-6498-2-ND	2,500	268.00/M	SM6T39CA
	600	44.4	—	—	40	497-6516-1-ND	.50	4.00	30.03	497-6516-2-ND	2,500	141.00/M	SMBJ40CA-TR
	600	53.3	—	—	48	497-7453-1-ND	.50	3.96	29.70	497-7453-2-ND	2,500	140.00/M	SMBJ48CA-TR
	600	64.6	68	71.4	58.1	497-6500-1-ND	.58	4.62	34.65	497-6500-2-ND	2,500	163.00/M	SM6T68CA
	600	95	100	105	85.5	497-7880-1-ND	.53	4.27	32.01	497-7880-2-ND	2,500	150.00/M	SM6T100CA
	600	143	150	158	128	497-7881-1-ND	.53	4.27	32.01	497-7881-2-ND	2,500	150.00/M	SM6T150CA
	600	190	200	210	171	497-7882-1-ND	.53	4.27	32.01	497-7882-2-ND	2,500	150.00/M	SM6T200CA
	600	—	—	—	56	497-6499-1-ND	.92	7.98	63.00	497-6499-2-ND	2,500	305.00/M	SM6T56CA
3 (SMC)	1500	6.4	—	—	5.0	497-6524-1-ND	.92	7.98	63.00	497-6524-2-ND	2,500	305.00/M	SMCJ5.0CA-TR
	1500	6.45	6.8	7.14	5.8	497-6488-1-ND	1.01	8.74	69.00	497-6488-2-ND	2,500	334.00/M	SM15T6V8CA
	1500	9.5	10	10.5	8.55	497-6482-1-ND	.92	7.98	63.00	497-6482-2-ND	2,500	305.00/M	SM15T10CA
	1500	14.3	15	15.8	12.8	497-7863-1-ND	.92	7.98	63.00	497-7863-2-ND	2,500	305.00/M	SM15T15CA
	1500	16.7	—	—	15	497-6518-1-ND	.92	7.98	63.00	497-6518-2-ND	2,500	305.00/M	SMCJ15CA-TR
	1500	17.1	18	18.9	15.3	497-7865-1-ND	.92	7.98	63.00	497-7865-2-ND	2,500	305.00/M	SM15T18CA
	1500	20	—	—	18	497-4295-1-ND	.92	7.98	63.00	497-4295-2-ND	2,500	305.00/M	SMCJ18CA-TR
	1500	31.4	33	34.7	28.2	497-7872-1-ND	.92	7.98	63.00	497-7872-2-ND	2,500	305.00/M	SM15T33CA
	1500	34.2	36	37.8	30.8	497-7873-1-ND	.92	7.98	63.00	497-7873-2-ND	2,500	305.00/M	SM15T36CA
	1500	36.7	—	—	33	497-7899-1-ND	.88	7.60	60.00	497-7899-2-ND	2,500	290.00/M	SMCJ33CA-TR
	1500	37.1	39	41	33.3	497-6486-1-ND	.92	7.98	63.00	497-6486-2-ND	2,500	305.00/M	SM15T39CA
	1500	44.4	—	—	40	497-6521-1-ND	.88	7.60	60.00	497-6521-2-ND	2,500	290.00/M	SMCJ40CA-TR
	1500	53.3	—	—	48	497-6522-1-ND	.88	7.60	60.00	497-6522-2-ND	2,500	290.00/M	SMCJ48CA-TR
	1500	64.6	68	71.4	58.1	497-7875-1-ND	.92	7.98	63.00	497-7875-2-ND	2,500	305.00/M	SM15T68CA
	1500	95	100	105	85.5	497-6480-1-ND	.92	7.98	63.00	497-6480-2-ND	2,500	305.00/M	SM15T100CA
	1500	190	200	210	171	497-6483-1-ND	.88	7.60	60.00	497-6483-2-ND	2,500	290.00/M	SM15T200CA
	1500	209	220	231	188	497-7866-1-ND	.88	7.60	60.00	497-7866-2-ND	2,500	290.00/M	SM15T220CA
4	300	5.3	—	5.9	3.0	497-6632-1-ND	.70	6.00	47.40	497-6632-2-ND	3,000	229.00/M	ESDA5V3L
	300	14.2	—	15.8	12	497-6687-1-ND	.66	5.28	39.60	497-6687-2-ND	3,000	186.00/M	ESDA14V2L
5	150	25	—	30	24	497-2488-1-ND	1.20	10.71	85.05	497-2488-2-ND	2,500	441.00/M	ESDA25B1RL
	150	25	—	30	24	497-6688-5-ND‡	1.21	10.76	85.02	—	—	—	ESDA25B1
	300	6.5	—	—	5.0	497-3408-1-ND	2.43	20.79	169.79	497-3408-2-ND	2,500	936.00/M	ITA6V5B1RL
	300	6.51	—	—	5.0	497-3407-1-ND	2.21	18.90	154.35	497-3407-2-ND	2,500	851.00/M	ITA6V1U1RL
	300	10	—	—	8.0	497-6693-5-ND‡	2.15	19.40	155.93	—	—	—	ITA10B1
	300	18	—	—	15	497-3405-1-ND	2.21	18.90	154.35	497-3405-2-ND	2,500	851.00/M	ITA18B1RL
	300	25	—	—	24	497-2686-5-ND‡	1.95	17.64	141.75	—	—	—	ITA25B1
	300	25	—	—	24	497-3406-1-ND	2.21	18.90	154.35	497-3406-2-ND	2,500	851.00/M	ITA25B1RL
7	80	6.1	—	8	3.0	497-4643-1-ND	.74	5.90	44.22	497-4643-2-ND	3,000	208.00/M	ESDA6V1-4BC6
	80	6.1	—	8	5.0	497-6635-1-ND	.92	8.23	65.34	497-6635-2-ND	3,000	339.00/M	ESDA6V1BC6
8 (SOT-666)	50	14.2	—	18	12	497-7224-1-ND	.70	6.00	47.40	497-7224-2-ND	3,000	229.00/M	ESDA14V2BP6
	50	25	—	30	24	497-6968-1-ND	.64	5.10	38.28	497-6968-2-ND	3,000	180.00/M	ESDA25-4BP6
9 (SOD-882)	30	8.5	11	—	3.0	497-10414-1-ND ***NEW!***	.69	5.54	41.58	497-10414-2-ND ***NEW!***	12,000	170.00/M	ESDAVLC8-1BM2
	100	6.1	—	8.0	3.0	497-6291-1-ND	.58	4.63	34.75	—	—	—	ESDALC6V1-1BT2
	140	—	6.1	—	—	497-5543-1-ND	.58	4.63	34.75	497-5543-2-ND	3,000	163.00/M	ESDALC6V1-1BM2
9 (SOD-882T)	30	8.5	11	—	3.0	497-10413-1-ND ***NEW!***	.69	5.54	41.58	497-10413-2-ND ***NEW!***	12,000	170.00/M	ESDAVLC8-1BT2
10	25	6.1	—	7.2	3.0	497-10291-1-ND ***NEW!***	.79	6.80	53.70	497-10291-2-ND ***NEW!***	3,000	260.00/M	ESDALC6V1-5T6
	35	6.1	—	7.2	3.0	497-10415-1-ND ***NEW!***	1.08	9.66	76.68	497-10415-2-ND ***NEW!***	3,000	398.00/M	ESDA6V1-5T6
19	160	17.1/25.4	18.9/27.8	20.3/30.3	15/24	497-7751-1-ND	1.16	10.37	82.35	497-7751-2-ND	3,000	427.00/M	ESDLIN1524BJ
Uni-Directional													
1	1500	6.45	6.8	7.14	5.8	497-3751-1-ND◆	.81	6.99	55.20	497-3751-3-ND◆†	600	220.80	1.5KE6V8A
	1500	31.4	33	34.7	28.2	497-6604-1-ND◆	.81	6.47	48.51	497-6604-3-ND◆†	600	194.04	1.5KE33A
	1500	37.1	39	41	33.3	497-6607-1-ND◆	.88	7.60	60.00	497-6607-3-ND◆†	600	240.00	1.5KE39A
	1500	64.6	68	71.4	58.1	497-7052-1-ND◆	.68	5.86	46.28	497-7052-2-ND◆	1,900	247.00/M	1.5KE68ARL
	1500	190	200	210	171	497-6644-1-ND◆	.88	7.60	60.00	497-6644-3-ND◆†	600	240.00	1.5KE200A
	1500	190	200	210	171	497-8194-1-ND◆	.70	6.00	47.40	497-8194-2-ND◆	1,900	253.00/M	1.5KE200ARL
	1500	209	220	231	188	497-4611-1-ND◆	.75	6.03	45.21	497-4611-2-ND◆	1,900	238.00/M	1.5KE220ARL
	1500	380	400	420	342	497-7050-1-ND◆	.79	6.84	54.00	497-7050-2-ND◆	1,900	288.00/M	1.5KE400ARL
2	600	6.45	6.8	7.14	5.8	497-7858-1-ND◆	.62	4.90	33.54	497-7858-2-ND◆	6,000	133.00/M	P6KE6V8ARL
	600	31.4	33	24.7	28.2	497-4287-1-ND◆	.58	4.62	34.65	497-4287-2-ND◆	6,000	152.00/M	P6KE33ARL
	600	37.1	39	41	33.3	497-7855-1-ND◆	.64	5.10	38.28	497-7855-2-ND◆	6,000	168.00/M	P6KE39ARL
	600	190	200	210	171	497-6467-1-ND◆	.58	4.62	34.65	497-6467-2-ND◆	6,000	152.00/M	P6KE200ARL
	600	237	250	263	213	497-4286-1-ND◆	.58	4.62	34.65	497-4286-2-ND◆	6,000	152.00/M	P6KE250ARL
	600	380	400	420	342	497-7856-1-ND◆	.64	5.10	38.28	497-7856-2-ND◆	6,000	168.00/M	P6KE400ARL
	600	418	440	462	376	497-7857-1-ND◆	.64	5.10	38.28	497-7857-2-ND◆	6,000	168.00/M	P6KE440ARL
3 (SMA)	400	6.4	—	—	5.0	497-2999-1-ND◆	.50	3.96	29.70	497-2999-2-ND◆	5,000	131.00/M	SMAJ5.0A-TR
	400	6.7	—	—	6.0	497-7894-1-ND◆	.61	4.79	32.76	497-7894-2-ND◆	5,000	130.00/M	SMAJ6.0A-TR
	400	7.2	—	—	6.5	497-7895-1-ND◆	.61	4.79	32.76	497-7895-2-ND◆	5,000	130.00/M	SMAJ6.5A-TR
	400	13.3	—	—	12	497-6503-1-ND◆	.61	4.79	32.76	497-6503-2-ND◆	5,000	130.00/M	SMAJ12A-TR
	400	16.7	—	—	15	497-6504-1-ND◆	.61	4.79	32.76	497-6504-2-ND◆	5,000	130.00/M	SMAJ15A-TR
	400	20	—	—	18	497-7892-1-ND◆	.61	4.79	32.76	497-7892-2-ND◆	5,000	130.00/M	SMAJ18A-TR
	400	36.7	—	—	33	497-7448-1-ND◆	.61	4.79	32.76	497-7448-2-ND◆	5,000	130.00/M	SMAJ33A-TR
	400	44.4	—	—	40	497-6507-1-ND◆	.61	4.79	32.76	497-6507-2-ND◆	5,000	130.00/M	SMAJ40A-TR
	400	47.8	—	—	43	497-4290-1-ND◆	.61	4.79	32.76	497-4290-2-ND◆	5,000	130.00/M	SMAJ43A-TR
	400	64.4	—	—	58	497-3508-1-ND◆	.61	4.79	32.76	497-3508-2-ND◆	5,000	130.00/M	SMAJ58A-TR
	400	111	—	—	100	497-4289-1-ND◆	.45	3.56	26.73	497-4289-2-ND◆	5,000	118.00/M	SMAJ100A-TR
	400	189	—	—	170	497-6505-1-ND◆	.52	4.18	31.35	497-6505-2-ND◆	5,000	138.00/M	SMAJ170A-TR

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

(Continued)

Transient Voltage Suppressors

Transil™ Series *(Cont.)*

Fig.	Pw (W)	Breakdown Voltage			VRM (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
3 (SMA)	600	6.4	6.74	7.07	5.0	497-5938-1-ND◆	.57	4.58	34.32	—	—	—	SMA6J5.0A-TR
	600	6.7	7.05	7.41	6.0	497-5942-1-ND◆	.57	4.58	34.32	497-5942-2-ND◆	5,000	151.00/M	SMA6J6.0A-TR
	600	7.2	7.58	7.96	6.5	497-5944-1-ND◆	.53	3.99	31.35	497-5944-2-ND◆	5,000	151.00/M	SMA6J6.5A-TR
	600	9.4	9.9	10.4	8.5	497-5948-1-ND◆	.53	3.99	31.35	497-5948-2-ND◆	5,000	151.00/M	SMA6J8.5A-TR
	600	11.1	11.7	12.3	10	497-5915-1-ND◆	.53	3.99	31.35	—	—	—	SMA6J10A-TR
	600	13.3	14.0	14.7	12	497-5917-1-ND◆	.57	4.58	34.32	497-5917-2-ND◆	5,000	151.00/M	SMA6J12A-TR
	600	14.4	15.2	15.9	13	497-5919-1-ND◆	.57	4.58	34.32	497-5919-2-ND◆	5,000	151.00/M	SMA6J13A-TR
	600	16.7	17.6	18.5	15	497-5921-1-ND◆	.57	4.58	34.32	497-5921-2-ND◆	5,000	151.00/M	SMA6J15A-TR
	600	20.0	21.1	22.1	18	497-5923-1-ND◆	.57	4.58	34.32	497-5923-2-ND◆	5,000	151.00/M	SMA6J18A-TR
	600	22.2	23.4	24.5	20	497-5925-1-ND◆	.57	4.58	34.32	497-5925-2-ND◆	5,000	151.00/M	SMA6J20A-TR
	600	26.7	28.1	29.5	24	497-5927-1-ND◆	.57	4.58	34.32	497-5927-2-ND◆	5,000	151.00/M	SMA6J24A-TR
	600	28.9	30.4	31.9	26	497-5929-1-ND◆	.53	3.99	31.35	497-5929-2-ND◆	5,000	151.00/M	SMA6J26A-TR
	600	31.1	32.7	34.4	28	497-5931-1-ND◆	.57	4.58	34.32	—	—	—	SMA6J28A-TR
	600	36.7	38.6	40.6	33	497-5932-1-ND◆	.57	4.58	34.32	497-5932-2-ND◆	5,000	151.00/M	SMA6J33A-TR
	600	44.4	46.7	49.1	40	497-5934-1-ND◆	.57	4.58	34.32	497-5934-2-ND◆	5,000	151.00/M	SMA6J40A-TR
	600	53.3	56.1	58.9	48	497-5936-1-ND◆	.53	3.99	31.35	497-5936-2-ND◆	5,000	151.00/M	SMA6J48A-TR
	600	64.4	67.8	71.2	58	497-5940-1-ND◆	.53	3.99	31.35	497-5940-2-ND◆	5,000	151.00/M	SMA6J58A-TR
	600	77.8	81.9	86.0	70	497-5946-1-ND◆	.55	4.40	33.00	497-5946-2-ND◆	5,000	151.00/M	SMA6J70A-TR
	600	94	99	104	85	497-7445-1-ND◆	.57	4.58	34.32	497-7445-2-ND◆	5,000	151.00/M	SMA6J85A-TR
	600	111	117	123	100	497-7440-1-ND◆	.57	4.58	34.32	497-7440-2-ND◆	5,000	151.00/M	SMA6J100A-TR
	600	144	152	159	130	497-7441-1-ND◆	.57	4.58	34.32	497-7441-2-ND◆	5,000	151.00/M	SMA6J130A-TR
	600	171	180	189	154	497-7442-1-ND◆	.57	4.58	34.32	497-7442-2-ND◆	5,000	151.00/M	SMA6J154A-TR
	600	189	199	209	170	497-7443-1-ND◆	.57	4.58	34.32	497-7443-2-ND◆	5,000	151.00/M	SMA6J170A-TR
	600	209	220	231	188	497-7444-1-ND◆	.57	4.58	34.32	497-7444-2-ND◆	5,000	151.00/M	SMA6J188A-TR
3 (SMB)	600	6.45	6.8	7.14	5.8	497-6501-1-ND◆	.58	4.62	34.65	497-6501-2-ND◆	2,500	163.00/M	SM6T6V8A
	600	7.13	7.5	7.88	6.4	497-7439-1-ND◆	.67	5.32	39.93	497-7439-2-ND◆	2,500	188.00/M	SM6T7V5A
	600	11.1	—	—	10	497-6995-1-ND◆	.69	5.54	41.58	497-6995-2-ND◆	2,500	195.00/M	SMBJ10A-TR
	600	14.3	15	15.8	12.8	497-7430-1-ND◆	.50	4.00	30.03	497-7430-2-ND◆	2,500	141.00/M	SM6T15A
	600	14.4	—	—	13	497-7449-1-ND◆	.59	4.67	31.98	497-7449-2-ND◆	2,500	135.00/M	SMBJ13A-TR
	600	17.1	18	18.9	15.3	497-7431-1-ND◆	.50	4.00	30.03	497-7431-2-ND◆	2,500	141.00/M	SM6T18A
	600	20.9	22	23.1	18.8	497-6491-1-ND◆	.50	3.96	29.70	497-6491-2-ND◆	2,500	140.00/M	SM6T22A
	600	22.8	24	25.2	—	497-7423-1-ND◆	.86	6.65	57.00	497-7423-2-ND◆	2,500	224.00/M	SM6HT24A
	600	22.8	24	25.2	20.5	497-7433-1-ND◆	.50	4.00	30.03	497-7433-2-ND◆	2,500	141.00/M	SM6T24A
	600	24.4	—	—	22	497-7450-1-ND◆	.50	3.96	29.70	497-7450-2-ND◆	2,500	140.00/M	SMBJ22A-TR
	600	25.7	27	28.4	—	497-7424-1-ND◆	.68	5.86	46.28	—	—	—	SM6HT27A
	600	25.7	27	28.4	23.1	497-7435-1-ND◆	.50	4.00	30.03	497-7435-2-ND◆	2,500	141.00/M	SM6T27A
	600	28.5	30	31.5	25.6	497-3506-1-ND	.68	5.86	46.28	—	—	—	SM6HT30A
	600	28.5	30	31.5	25.6	497-7437-1-ND◆	.50	4.00	30.03	497-7437-2-ND◆	2,500	141.00/M	SM6T30A
	600	28.9	—	—	26	497-7451-1-ND◆	.50	3.96	29.70	497-7451-2-ND◆	2,500	140.00/M	SMBJ26A-TR
	600	31.1	—	—	28	497-6514-1-ND◆	.50	3.96	29.70	497-6514-2-ND◆	2,500	140.00/M	SMBJ28A-TR
	600	31.4	33	34.7	28.2	497-6493-1-ND◆	.50	4.00	30.03	497-6493-2-ND◆	2,500	141.00/M	SM6T33A
	600	33.3	—	—	30	497-7452-1-ND◆	.50	3.96	29.70	497-7452-2-ND◆	2,500	140.00/M	SMBJ30A-TR
	600	34.2	36	37.8	30.8	497-6495-1-ND◆	.50	3.96	29.70	497-6495-2-ND◆	2,500	140.00/M	SM6T36A
	600	36.7	—	—	33	497-6515-1-ND◆	.58	4.62	34.65	497-6515-2-ND◆	2,500	163.00/M	SMBJ33A-TR
	600	37.1	39	41.0	33.3	497-6497-1-ND◆	.50	4.00	30.03	497-6497-2-ND◆	2,500	141.00/M	SM6T39A
	600	40.9	43	45.2	36.8	497-7425-1-ND◆	.68	5.86	46.28	497-7425-2-ND◆	2,500	276.00/M	SM6HT43A
	600	64.6	68	71.4	58.1	497-7438-1-ND◆	.58	4.62	34.65	497-7438-2-ND◆	2,500	163.00/M	SM6T68A
	600	95	100	105	85.5	497-7426-1-ND◆	.50	4.00	30.03	497-7426-2-ND◆	2,500	141.00/M	SM6T100A
	600	143	150	158	128	497-7429-1-ND◆	.50	4.00	30.03	497-7429-2-ND◆	2,500	141.00/M	SM6T150A
	600	189	—	—	170	497-6511-1-ND◆	.50	3.96	29.70	497-6511-2-ND◆	2,500	140.00/M	SMBJ170A-TR
	600	190	200	210	171	497-6490-1-ND◆	.50	4.00	30.03	497-6490-2-ND◆	2,500	141.00/M	SM6T200A
	600	209	220	231	188	497-7432-1-ND◆	.52	4.18	31.35	497-7432-2-ND◆	2,500	147.00/M	SM6T220A
3 (SMC)	1500	6	—	7.6	5.0	497-6489-1-ND◆	1.84	15.75	128.63	497-6489-2-ND◆	2,500	709.00/M	SM5908
	1500	6.4	—	—	5.0	497-6523-1-ND◆	.92	7.98	63.00	497-6523-2-ND◆	2,500	305.00/M	SMCJ5.0A-TR
	1500	6.45	6.8	7.14	5.8	497-6487-1-ND◆	.92	7.98	63.00	497-6487-2-ND◆	2,500	305.00/M	SM15T6V8A
	1500	6.7	—	—	6.0	497-4296-1-ND◆	.92	7.98	63.00	497-4296-2-ND◆	2,500	305.00/M	SMCJ6.0A-TR
	1500	9.5	10	10.5	8.55	497-6481-1-ND◆	.88	7.60	60.00	497-6481-2-ND◆	2,500	290.00/M	SM15T10A
	1500	11.4	12	12.6	10.2	497-3715-1-ND	.88	7.60	60.00	497-3715-2-ND	2,500	290.00/M	SM15T12A
	1500	14.3	15	15.8	12.8	497-7862-1-ND◆	.88	7.60	60.00	497-7862-2-ND◆	2,500	290.00/M	SM15T15A
	1500	16.7	—	—	15	497-6517-1-ND◆	1.20	10.71	85.05	497-6517-2-ND◆	2,500	441.00/M	SMCJ15A-TR
	1500	17.1	18	18.9	15.3	497-7864-1-ND◆	.88	7.60	60.00	497-7864-2-ND◆	2,500	290.00/M	SM15T18A
	1500	20.9	22	23.1	18.8	497-7867-1-ND◆	.92	7.98	63.00	497-7867-2-ND◆	2,500	305.00/M	SM15T22A
	1500	22.8	24	25.2	20.5	497-7868-1-ND◆	.88	7.60	60.00	497-7868-2-ND◆	2,500	290.00/M	SM15T24A
	1500	25.7	27	28.4	23.1	497-7869-1-ND◆	.92	7.98	63.00	497-7869-2-ND◆	2,500	305.00/M	SM15T27A
	1500	28.5	30	31.5	25.6	497-7870-1-ND◆	.88	7.60	60.00	497-7870-2-ND◆	2,500	290.00/M	SM15T30A
	1500	28.9	—	—	26	497-6519-1-ND◆	.92	7.98	63.00	497-6519-2-ND◆	2,500	305.00/M	SMCJ26A-TR
	1500	31.4	33	34.7	28.2	497-7871-1-ND◆	.88	7.60	60.00	497-7871-2-ND◆	2,500	290.00/M	SM15T33A
	1500	34.2	36	37.8	30.8	497-6485-1-ND◆	.92	7.98	63.00	497-6485-2-ND◆	2,500	305.00/M	SM15T36A
	1500	36.7	—	—	33	497-6520-1-ND◆	.92	7.98	63.00	497-6520-2-ND◆	2,500	305.00/M	SMCJ33A-TR
	1500	37.1	39	41.0	33.3	497-3716-1-ND◆	.97	8.40	66.30	497-3716-2-ND◆	2,500	320.00/M	SM15T39A
	1500	44.4	—	—	40	497-7900-1-ND◆	.88	7.60	60.00	497-7900-2-ND◆	2,500	290.00/M	SMCJ40A-TR
	1500	64.6	68	71.4	58.1	497-7874-1-ND◆	.88	7.60	60.00	497-7874-2-ND◆	2,500	290.00/M	SM15T68A
	1500	143	150	158	128	497-7861-1-ND◆	.88	7.60	60.00	497-7861-2-ND◆	2,500	290.00/M	SM15T150A
	1500	209	220	231	188	497-6484-1-ND◆	.88	7.60	60.00	497-6484-2-ND◆	2,500	290.00/M	SM15T220A
4 (SOT-23)	300	6.1	—	7.2	5.25	497-2930-1-ND◆	.62	4.90	33.54	497-2930-2-ND◆	3,000	142.00/M	ESDA6V1L
	300	25	—	30	24	497-4642-1-ND◆	.61	4.84	36.30	497-4642-2-ND◆	3,000	171.00/M	ESDA25L
4 (SOT323)	400	25	—	30	24	497-6689-1-ND◆	.70	5.63	42.24	497-6689-2-ND◆	3,000	198.00/M	ESDA25W
5	200	6.1	—	7.2	5.0	497-3403-5-ND◆‡	1.06	9.39	74.24	—	—	—	ESDA6V1U1
	200	6.1	—	7.2	5.0	497-3711-1-ND◆	1.12	10.00	79.38	497-3711-2-ND◆	2,500	412.00/M	ESDA6V1U1RL
6	25	6.1	—	7.2	3.0	497-6008-1-ND◆	.40	3.21	24.06	497-6008-2-ND◆	5,000	106.00/M	ESDALC6V1C2
	25	6.1	—	7.2	3.0	497-7230-1-ND◆	.54	4.22	28.86	497-7230-2-ND◆	5,000	115.00/M	ESDALC6V1F2
	350	16	—	18	10	497-6982-1-ND◆	.70	6.00	47.40	497-6982-2-ND◆	10,000	205.00/M	LFTVS18-1F3
	350	7	—	—	5.5	497-6983-1-ND◆	.70	6.00	47.40	497-6983-2-ND◆	5,000	213.00/M	LFTVS7-1F3
7	100	6.1	—	7.2	3.0	497-7747-1-ND◆	.96	8.57	68.04	497-7747-2-ND◆	3,000	353.00/M	ESDA6V1-5SC6
	150	17	—	19	14	497-7225-1-ND◆	.64	5.10	38.28	497-7225-2-ND◆	3,000	180.00/M	ESDA17-5SC6
	300	14.2	—	15.8	12	497-7745-1-ND◆	.88	7.60	60.00	497-7745-2-ND◆	3,000	290.00/M	ESDA14V2SC6
	400	5.3	—	5.9	3.0	497-6633-1-ND◆	.69	5.54	41.58	497-6633-2-ND◆	3,000	195.00/M	ESDA5V3SC6
	400	6.1	—	7.2	5.25	497-6637-1-ND◆	.74	6.38	50.40	497-6637-2-ND◆	3,000	244.00/M	ESDA6V1SC6

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

Transil™ Series *(Cont.)*

Fig.	Pw (W)	Breakdown Voltage			V_{RM} (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
8 (SOT-665)	30	6.1	—	7.2	3.0	497-3785-1-ND◆	.69	5.54	41.58	497-3785-2-ND◆	3,000	195.00/M	ESDALC6V1P5
8 (SOT-666IP)	30	6.1	—	7.2	3.0	497-3404-1-ND◆	.57	4.58	34.32	497-3404-2-ND◆	3,000	161.00/M	ESDALC6V1P3
	30	6.1	—	7.2	3.0	497-6638-1-ND◆	.74	6.38	50.40	497-6638-2-ND◆	3,000	244.00/M	ESDALC6V1P6
	150	6.1	—	7.2	3.0	497-7227-1-ND◆	.57	4.58	34.32	497-7227-2-ND◆	3,000	161.00/M	ESDA6V1P6
9	50	6.1	—	7.2	3.0	497-5238-1-ND◆	.53	4.16	28.47	497-5238-2-ND◆	3,000	120.00/M	ESDALC6V1-1M2
11	30	6.1	—	7.2	5.0	497-5563-1-ND◆	.62	4.90	33.54	497-5563-2-ND◆	3,000	142.00/M	ESDALC6V1M3
	30	14.2	—	17.0	3	497-9059-1-ND◆ ***NEW!***	.83	7.18	56.70	497-9059-2-ND◆ ***NEW!***	15,000	246.00/M	ESDALC14V2-1U2
12	30	6.1	—	7.2	3.0	497-5564-1-ND◆	.68	5.46	40.92	—	—	—	ESDALC6V1M6
	30	6.1	—	7.2	3.0	497-5779-1-ND◆	.69	5.54	41.58	497-5779-2-ND◆	3,000	195.00/M	ESDA6V1-5M6
	30	6.1	—	7.2	3.0	497-5780-1-ND◆	.73	5.85	43.89	497-5780-2-ND◆	3,000	206.00/M	ESDALC6V1-5M6
	100	6.1	—	7.2	3.0	497-7226-1-ND◆	.63	5.02	37.62	497-7226-2-ND◆	3,000	177.00/M	ESDA6V1M6
13	100	6.1	—	7.2	3.0	497-6634-1-ND◆	1.04	9.28	73.71	497-6634-2-ND◆	3,000	382.00/M	ESDA6V1-5W6
14	200	6.1	—	7.2	5.25	497-6690-5-ND◆‡	2.02	18.90	151.20	—	—	—	ESDA6V1S3
	200	6.1	—	7.2	5.25	497-6636-1-ND◆	2.18	19.14	162.40	497-6636-2-ND◆	1,000	797.50	ESDA6V1S3RL
	300	6.5	—	—	5.0	497-6694-5-ND◆‡	3.88	34.65	284.13	—	—	—	ITA6V5B3
15	5000	16.6	—	—	15	497-4189-1-ND◆	2.85	24.39	199.19	497-4189-2-ND◆	1,000	1179.00	BZW50-15RL
	5000	16.6	—	—	15	497-6686-1-ND◆	3.16	27.09	—	497-6686-3-ND◆†	1,000	1309.35	BZW50-15
	5000	36.6	—	—	33	497-7221-5-ND◆	2.80	25.28	203.18	—	—	—	BZW50-33
	5000	200	—	—	180	497-4612-1-ND◆	2.94	25.20	205.80	497-4612-2-ND◆	1,000	1218.00	BZW50-180RL
	5000	200	—	—	180	497-6628-1-ND◆	2.85	24.39	—	497-6628-3-ND◆†	1,000	1178.85	BZW50-180
16	150	6.1	—	7.2	3.0	497-7228-1-ND◆	.70	6.00	47.40	497-7228-2-ND◆	3,000	229.00/M	ESDA6V1W5
	25	6.1	—	7.2	3.0	497-7231-1-ND◆	.70	6.00	47.40	497-7231-2-ND◆	3,000	229.00/M	ESDALC6V1W5
17	200	17.1	—	—	16	497-7876-1-ND◆	.74	5.90	44.22	497-7876-2-ND◆	12,000	181.00/M	SM2T18A
	200	25.7	—	—	24	497-7877-1-ND◆	.46	3.89	29.16	—	—	—	SM2T27A
	200	3.6	—	—	3.3	497-7878-1-ND◆	.70	6.00	47.40	497-7878-2-ND◆	12,000	205.00/M	SM2T3V3A
	200	6.4	—	—	5.0	497-7879-1-ND◆	.74	5.90	44.22	497-7879-2-ND◆	12,000	181.00/M	SM2T6V8A
18	400	11.4	12	12.6	10	497-7901-1-ND◆	.55	4.33	29.64	497-7901-2-ND◆	12,000	110.00/M	SMM4F10A-TR
	400	13.3	14	14.7	12	497-7902-1-ND◆	.55	4.33	29.64	497-7902-2-ND◆	12,000	110.00/M	SMM4F12A-TR
	400	14.3	15	15.8	13	497-7903-1-ND◆	.55	4.33	29.64	497-7903-2-ND◆	12,000	110.00/M	SMM4F13A-TR
	400	17.1	18	18.9	15	497-7904-1-ND◆	.55	4.33	29.64	497-7904-2-ND◆	12,000	110.00/M	SMM4F15A-TR
	400	20.9	22	23.1	18	497-7905-1-ND◆	.55	4.33	29.64	497-7905-2-ND◆	12,000	110.00/M	SMM4F18A-TR
	400	22.8	24	25.2	20	497-7906-1-ND◆	.55	4.33	29.64	497-7906-2-ND◆	12,000	110.00/M	SMM4F20A-TR
	400	26.6	28.01	29.4	24	497-7907-1-ND◆	.55	4.33	29.64	497-7907-2-ND◆	12,000	110.00/M	SMM4F24A-TR
	400	28.5	30	31.5	26	497-7908-1-ND◆	.55	4.33	29.64	497-7908-2-ND◆	12,000	110.00/M	SMM4F26A-TR
	400	31.4	33	34.7	28	497-7909-1-ND◆	.55	4.33	29.64	497-7909-2-ND◆	12,000	110.00/M	SMM4F28A-TR
20	300	14.2	—	15.8	12	497-7744-1-ND◆	1.40	12.51	99.36	497-7744-2-ND◆	3,000	515.00/M	ESDA14V2SC5
	500	5.3	—	5.9	3.0	497-7746-1-ND◆	.97	8.40	66.30	497-7746-2-ND◆	3,000	320.00/M	ESDA5V3SC5
	400	6.1	—	7.2	5.25	497-7748-1-ND◆	.70	6.00	47.40	497-7748-2-ND◆	3,000	229.00/M	ESDA6V1SC5
21	400	6.4	6.74	7.10	5	497-8757-1-ND◆	.61	4.79	32.76	497-8757-2-ND◆	10,000	122.00/M	SMA4F5.0A-TR
	600	13.2	13.7	14.3	12	497-8758-1-ND◆	.52	4.18	31.35	497-8758-2-ND◆	10,000	128.00/M	SMA6F12AVCL
	600	14.4	15.2	15.9	13	497-8759-1-ND◆	.52	4.18	31.35	497-8759-2-ND◆	10,000	128.00/M	SMA6F13A-TR
	600	6.40	6.74	7.07	5	497-8760-1-ND◆	.52	4.18	31.35	497-8760-2-ND◆	10,000	128.00/M	SMA6F5.0A-TR
	600	13.2	13.7	14.3	—	497-8761-1-ND◆	.70	6.00	47.40	497-8761-2-ND◆	10,000	205.00/M	SMTYF12A
	600	20.9	22	23.1	18	497-8762-1-ND◆	.70	6.00	47.40	497-8762-2-ND◆	12,000	205.00/M	SMTYF18A
	600	6.40	6.74	7.07	5	497-8763-1-ND◆	.70	6.00	47.40	497-8763-2-ND◆	10,000	205.00/M	SMTYF5.0A
22	85	8.3	—	—	7.5	497-10294-1-ND◆ ***NEW!***	.81	6.47	48.51	497-10294-2-ND◆ ***NEW!***	3,000	228.00/M	SMX1J7.5A-TR

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

Transient Surge Arrestors - Trisil™ Series - SMB Package

I_{PP} @ 10/1000µs	V_{BR} @ I_R Maximum		I_{RM} @ V_{RM} Maximum		Dynamic V_{BO} Maximum (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
	(V)	(µA)	(µA)	(V)			1	10	100		Qty.	Pricing	
100	35	5	2	32	55	497-4093-1-ND◆	1.02	8.78	69.30	497-4093-2-ND◆	2,500	335.00/M	SMP100LC-35
	65	5	2	55	85	497-4096-1-ND◆	1.04	9.28	73.71	497-4096-2-ND◆	2,500	382.00/M	SMP100LC-65
	90	5	2	81	120	497-4097-1-ND◆	1.04	9.28	73.71	497-4097-2-ND◆	2,500	382.00/M	SMP100LC-90
	120	5	2	108	155	497-4087-1-ND◆	.96	8.57	68.04	497-4087-2-ND◆	2,500	353.00/M	SMP100LC-120
	140	5	2	120	185	497-4088-1-ND	.96	8.57	68.04	497-4088-2-ND	2,500	353.00/M	SMP100LC-140
	160	5	2	144	205	497-4089-1-ND◆	.96	8.57	68.04	497-4089-2-ND◆	2,500	353.00/M	SMP100LC-160
	200	5	2	180	255	497-4090-1-ND◆	.96	8.57	68.04	497-4090-2-ND◆	2,500	353.00/M	SMP100LC-200
	230	5	2	207	295	497-4091-1-ND◆	.96	8.57	68.04	497-4091-2-ND◆	2,500	353.00/M	SMP100LC-230
	270	5	2	243	345	497-4092-1-ND◆	.96	8.57	68.04	497-4092-2-ND◆	2,500	353.00/M	SMP100LC-270
	320	5	2	290	400	497-4297-1-ND◆	.96	8.57	68.04	497-4297-2-ND◆	2,500	353.00/M	SMP100LC-320
	360	5	2	325	460	497-4094-1-ND◆	.96	8.57	68.04	497-4094-2-ND◆	2,500	353.00/M	SMP100LC-360
	400	5	2	360	540	497-4095-1-ND◆	.96	8.57	68.04	497-4095-2-ND◆	2,500	353.00/M	SMP100LC-400
	160	5	2	144	205	497-4298-1-ND◆	.96	8.57	68.04	497-4298-2-ND◆	2,500	353.00/M	SMP100MC-160
	200	5	2	180	255	497-4299-1-ND◆	.96	8.57	68.04	497-4299-2-ND◆	2,500	353.00/M	SMP100MC-200
	230	5	2	207	295	497-4300-1-ND◆	.86	7.41	58.46	497-4300-2-ND◆	2,500	283.00/M	SMP100MC-230
	270	5	2	243	345	497-4301-1-ND◆	1.08	9.66	76.68	497-4301-2-ND◆	2,500	398.00/M	SMP100MC-270
	320	5	2	290	400	497-4999-1-ND◆	1.00	8.94	71.01	497-4999-2-ND◆	2,500	368.00/M	SMP100MC-320
	360	5	2	325	460	497-5000-1-ND◆	.77	6.92	54.95	497-5000-2-ND◆	2,500	337.50/M	SMP100MC-360
	400	5	2	360	540	497-5001-1-ND◆	1.06	9.20	72.60	497-5001-2-ND◆	2,500	351.00/M	SMP100MC-400
80	120	5	2	108	155	497-4783-1-ND◆	.80	4.65	31.80	—	—	—	SMP80MC-120
	140	5	2	126	180	497-4782-1-ND◆	.63	5.43	42.87	—	—	—	SMP80MC-140
	160	5	2	144	205	497-4766-1-ND◆	.63	5.43	42.87	—	—	—	SMP80MC-160
	200	5	2	180	255	497-4781-1-ND◆	.81	7.03	55.50	497-4781-2-ND◆	2,500	268.00/M	SMP80MC-200
	270	5	2	243	345	497-4302-1-ND◆	.91	7.83	61.80	497-4302-2-ND◆	2,500	299.00/M	SMP80MC-270
	320	5	2	290	400	497-7912-1-ND◆	1.24	11.08	88.02	497-7912-2-ND◆	2,500	456.00/M	SMP80MC-320
50	62	5	2	56	85	497-6526-1-ND◆	.74	6.38	50.40	497-6526-2-ND◆	2,500	244.00/M	SMTPA62
	120	5	2	108	160	497-7913-1-ND◆	.77	6.69	52.80	497-7913-2-ND◆	2,500	255.00/M	SMTPA120
	130	5	2	117	173	497-6525-1-ND◆†	1.02	8.78	69.30	497-6525-2-ND◆†	5,000	312.00/M	SMP50-130
	180	5	2	162	235	497-7910-1-ND◆†	1.02	8.78	69.30	497-7910-2-ND◆†	5,000	312.00/M	SMP50-180
	200	5	2	180	262	497-7456-1-ND◆	.77	6.69	52.80	497-7456-2-ND◆	2,500	255.00/M	SMTPA200
	200	5	2	180	262	497-8069-1-ND◆‡	.70	6.00	47.40	497-8069-2-ND◆‡	6,000	213.00/M	TPA200RL
	220	5	2	198	285	497-7457-1-ND◆	.77	6.69	52.80	497-7457-2-ND◆	2,500	255.00/M	SMTPA220
	240	5	2	216	300	497-7914-1-ND◆	.77	6.69	52.80	497-7914-2-ND◆	2,500	255.00/M	SMTPA240
	320	5	2	290	400	497-7911-1-ND◆†	.92	7.98	63.00	—	—	—	SMP50-320
	320	5	2	290	400	497-7915-1-ND◆	.97	8.40	66.30	497-7915-2-ND◆	2,500	320.00/M	SMTPA320

◆ ***RoHS Compliant*** † SMA Package ‡ DO-15 Package

(Continued)

Transient Voltage Suppressors *(Cont.)*

General Purpose Transient Voltage Suppressors

Package	Pw	V_{BR} @ I_R Minimum		I_{RM} @ V_{RM} Maximum		V_{CL} @ I_{PP} 10/1000µs Maximum		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
	(W)	(V)	(mA)	(µA)	(V)	(V)	(A)		1	10	100		Qty.	Pricing	
Bi-Directional															
SMB	600	6.4	10	800	5.0	9.2	68	497-3145-1-ND	.50	3.96	29.70	497-3145-2-ND	2,500	140.00/M	SMBJ5.0CA-TR
	600	7.2	10	500	6.5	11.2	56	497-3146-1-ND	.50	3.96	29.70	497-3146-2-ND	2,500	140.00/M	SMBJ6.5CA-TR
	600	11.1	1	5	10	17	37	497-3000-1-ND	.50	3.96	29.70	497-3000-2-ND	2,500	140.00/M	SMBJ10CA-TR
	600	13.3	1	5	12	19.9	31	497-3002-1-ND	.50	3.96	29.70	497-3002-2-ND	2,500	140.00/M	SMBJ12CA-TR
	600	26.7	1	1	24	38.9	16	497-3141-1-ND	.50	4.00	30.03	497-3141-2-ND	2,500	141.00/M	SMBJ24CA-TR
	600	33.3	1	1	30	48.4	13	497-3142-1-ND	.55	4.40	33.00	497-3142-2-ND	2,500	155.00/M	SMBJ30CA-TR
	600	36.7	1	1	33	53.3	11.8	497-3005-1-ND	.50	3.96	29.70	497-3005-2-ND	2,500	140.00/M	SMBJ33CA-TR
	600	64.4	1	1	58	93.6	6.7	497-3143-1-ND	.50	3.96	29.70	497-3143-2-ND	2,500	140.00/M	SMBJ58CA-TR
	600	77.8	1	1	70	113	5.5	497-3770-1-ND	.58	4.62	34.65	—	—	—	SMBJ70CA-TR
Uni-Directional															
DO-201	1500	22	1	1	20	33.2	45	497-4990-1-ND	.61	4.84	36.30	497-4990-3-ND†	600	145.20	LNBTVS3-220
	1800	22	1	1	20	33.2	55	497-4992-1-ND	.70	6.08	48.00	497-4992-3-ND†	600	192.00	LNBTVS4-220
	2000	22	1	1	20	33.2	60	497-4994-1-ND	.88	7.60	60.00	497-4994-3-ND†	600	240.00	LNBTVS4-221
SMB	600	6.4	10	800	5.0	9.2	68	497-3144-1-ND	.50	3.96	29.70	497-3144-2-ND	2,500	140.00/M	SMBJ5.0A-TR
	600	6.7	10	800	6.0	10.3	61	497-3006-1-ND	.58	4.62	34.65	497-3006-2-ND	2,500	163.00/M	SMBJ6.0A-TR
	600	13.3	1	5	12	19.9	31	497-3001-1-ND	.58	4.62	34.65	497-3001-2-ND	2,500	163.00/M	SMBJ12A-TR
	600	16.7	1	1	15	24.4	25.1	497-3003-1-ND	.58	4.62	34.65	497-3003-2-ND	2,500	163.00/M	SMBJ15A-TR
	600	17.8	1	1	16	26	23.1	497-4293-1-ND	.58	4.62	34.65	497-4293-2-ND	2,500	163.00/M	SMBJ16A-TR
	600	20	1	1	18	29.2	21.5	497-3139-1-ND	.58	4.62	34.65	497-3139-2-ND	2,500	163.00/M	SMBJ18A-TR
	600	26.7	1	1	24	38.9	16	497-3140-1-ND	.58	4.62	34.65	497-3140-2-ND	2,500	163.00/M	SMBJ24A-TR
	600	77.8	1	1	70	113	5.5	497-4294-1-ND	.58	4.62	34.65	—	—	—	SMBJ70A-TR
	600	171	1	1	154	246	2.4	497-4292-1-ND	.58	4.62	34.65	497-4292-2-ND	2,500	163.00/M	SMBJ154A-TR
	1500	22	1	1	20	33.2	45	497-4991-1-ND	.75	6.46	51.00	—	—	—	LNBTVS3-220U
SMC	3000	22	1	1	20	33.2	90	497-4996-1-ND	1.04	9.28	73.71	—	—	—	LNBTVS4-222S
	3000	22	1	1	20	33.2	90	497-4997-1-ND	1.06	9.49	75.33	497-4997-2-ND	2,500	391.00/M	LNBTVS6-220S
	3000	22	1	1	20	33.2	90	497-4998-1-ND	1.29	11.53	91.53	497-4998-2-ND	2,500	475.00/M	LNBTVS6-221S

† Tape and Box

Application Specific TVS

Fig. 1 — 8-SOIC

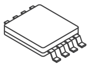

Fig. 2 — 6-QFN

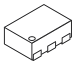

Fig. 3 — SOT23-6L

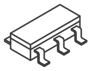

Fig. 4 — DO-15

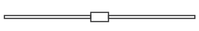

Fig. 5 — D2PAK

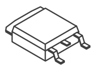

Fig. 6 — DO-216AA

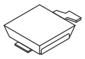

Fig. 7 — SOT-666

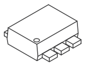

Fig. 8 — Flip-Chip

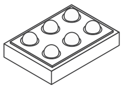

Fig. 9 — 10-Flip-Chip *NEW!*

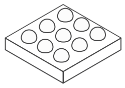

Fig. 10 — SOT23-5L

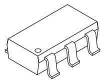

Fig. 11 — SMA

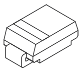

Fig. 12 — ST0201

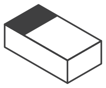

Fig. 13 — 20-SOIC

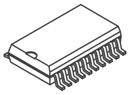

Fig.	Package	Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
				1	10	100		Qty.	Pricing	
1	8-SOIC	Programmable TVS for SLIC Protection	497-3781-1-ND◆	1.23	1.10	.88	497-3781-2-ND◆	2,500	452.00/M	LCP1521SRL
	8-SOIC	Programmable TVS for SLIC Protection	497-6010-1-ND◆	1.29	1.16	.92	497-6010-2-ND◆	2,500	475.00/M	LCP1531RL
	8-SOIC	Dual Line Programmable TVS for SLIC Protection	497-6444-1-ND◆	1.98	1.71	1.39	497-6444-2-ND◆	2,500	765.00/M	LCDP1521RL
	8-SOIC	Overvoltage and Overcurrent Protection for Telecom Line	497-3780-1-ND	1.94	1.67	1.36	497-3780-2-ND	2,500	884.00/M	LCP3121RL
	8-SOIC	12 Diode Array	497-7222-1-ND◆	1.52	1.36	1.08	497-7222-2-ND◆	2,500	559.00/M	DA112S1RL
	8-SOIC	Protection for Ethernet Lines	497-8753-1-ND◆	2.39	2.05	1.68	497-8753-2-ND◆	2,500	922.00/M	ETP01-1621RL
	8-SOIC	Protection for Gigabit Ethernet Lines	497-10115-1-ND◆ ***NEW!***	4.70	4.23	3.45	497-10115-2-ND◆ ***NEW!***	2,500	2081.00/M	SLVU2.8-4A1
	8-SOIC	Protection for Gigabit Ethernet Lines	497-10116-1-ND◆ ***NEW!***	5.01	4.51	3.68	497-10116-2-ND◆ ***NEW!***	2,500	2221.00/M	SLVU2.8-8A1
2	6-QFN	Ultra Low Capacitance ESD Protection	497-6967-1-ND◆	1.22	1.10	.87	497-6967-2-ND◆	3,000	451.00/M	DVIULC6-2M6
	6-QFN	Ultra Large Bandwidth ESD Protection	497-6971-1-ND◆	1.37	1.23	.98	497-6971-2-ND◆	3,000	504.00/M	HDMIULC6-2M6
	6-QFN	Ultra Low Capacitance ESD Protection	497-7044-1-ND◆	1.24	1.11	.89	497-7044-2-ND◆	3,000	456.00/M	USBULC6-2M6
3	SOT23-6L	Ultra Low Capacitance ESD Protection	497-5237-1-ND◆	1.06	.95	.76	497-5237-2-ND◆	3,000	391.00/M	DVIULC6-4SC6
	SOT23-6L	Ultra Large Bandwidth ESD Protection	497-5239-1-ND◆	1.80	1.61	1.28	497-5239-2-ND◆	3,000	662.00/M	HDMIULC6-4SC6
	SOT23-6L	Very Low Capacitance ESD Protection	497-5235-1-ND◆	1.00	.90	.72	497-5235-2-ND◆	3,000	368.00/M	USBLC6-2SC6
4	DO-15	TVS 160V/700V	497-3138-1-ND◆	.83	.72	.57	497-3138-3-ND◆†	1,000	302.40	PKC-136
	DO-15	TVS 160V/700V	497-6478-1-ND◆	.92	.80	.63	497-6478-2-ND◆	6,000	284.00/M	PKC-136RL
5	D2PAK	Reversed Battery and Overvoltage Protection	497-2554-5-ND◆‡	2.93	2.65	2.13	—	—	—	RB040-40G
	D2PAK	Reversed Battery and Overvoltage Protection	497-3714-1-ND◆	3.31	2.84	2.32	497-3714-2-ND◆	1,000	1370.00	RB040-40G-TR
6	DO-216AA	Low Forward Voltage TVS: Transky™	497-3509-1-ND◆	.92	.80	.63	497-3509-2-ND◆	12,000	273.00/M	SMTY18AM
7	SOT-666	ESD Protection for High Speed Interface, VBR = 6V min.	497-5544-1-ND◆	.88	.76	.60	—	—	—	DSILC6-4P6
	SOT-666	ESD Protection for High Speed Interface, VBR = 7.2V max.	497-7229-1-ND◆	.75	.65	.52	497-7229-2-ND◆	3,000	248.00/M	ESDALC6V1-5P6
	SOT-666	ESD Protection for High Speed Interface, VBR = 9.2V max.	497-7750-1-ND◆	.97	.84	.67	497-7750-2-ND◆	3,000	320.00/M	ESDAULC6-3BP6
	SOT-666	Ultra Low Capacitance ESD Protection, VBR = 6V min.	497-8469-1-ND◆	1.20	1.08	.86	497-8469-2-ND◆	3,000	441.00/M	DVIULC6-2P6
	SOT-666	Ultra Large Bandwidth ESD Protection	497-8754-1-ND◆	1.04	.93	.74	497-8754-2-ND◆	3,000	382.00/M	HDMIULC6-2P6
8	9 Flip-Chip	ESD Protection, HDMI™, VBR = 6V min.	497-8885-1-ND◆ ***NEW!***	.58	.47	.35	497-8885-2-ND◆ ***NEW!***	5,000	152.00/M	HDMI05-CL02F3
	Flip-Chip	ESD Protection for High Speed Interface, VBR = 6V min.	497-6116-1-ND◆	1.00	.90	.72	497-6116-2-ND◆	5,000	350.00/M	DSILC6-4F2
	Flip-Chip	ESD Protection for High Speed Interface, VBR = 9.2V max.	497-7749-1-ND◆	.97	.84	.67	497-7749-2-ND◆	5,000	298.00/M	ESDAULC6-3BF2
9	10 Flip-Chip	ESD Protection, IPAD™,	497-8886-1-ND◆ ***NEW!***	1.80	1.61	1.28	497-8886-2-ND◆ ***NEW!***	5,000	629.00/M	HDMIULC6-4F3
10	SOT23-5L	Secondary Protection for DSL Lines, 8V	497-5538-1-ND◆	1.00	.85	.73	—	—	—	DSL01-008SC5
	SOT23-5L	Secondary Protection for DSL Lines, 16V	497-6160-1-ND◆	1.00	.90	.72	497-6160-2-ND◆	3,000	368.00/M	DSL01-016SC5
	SOT23-5L	Secondary Protection for DSL Lines, 24V	497-8750-1-ND◆	1.00	.90	.72	497-8750-2-ND◆	3,000	368.00/M	DSL01-024SC5
11	SMA	Low Forward Voltage TVS: Transky™, Stand off Voltage = 5V	497-5539-1-ND◆	.74	.64	.51	497-5539-2-ND◆	5,000	227.00/M	SMTY5.0A
	SMA	Low Forward Voltage TVS: Transky™, Stand off Voltage = 12V	497-5540-1-ND◆	.83	.72	.57	497-5540-2-ND◆	5,000	255.00/M	SMTY12A
12	ST0201	Single Line Low Capacitance ESD Proection, VBR = 6.1V min.	497-8752-1-ND◆	.56	.40	.27	497-8752-2-ND◆	15,000	82.00/M	ESDALC6V1-1U2
13	20-SOIC	Secondary Protection for DSL Lines, 10.5V	497-8749-1-ND◆	1.00	.90	.72	497-8749-2-ND◆	3,000	368.00/M	DSL01-010SC5

◆ ***RoHS Compliant*** † Ammo Pack ‡ Tube

Dimensions in mm

600 Watt SMB Surface Mount TVS

Specification Features: • Peak Power — 600 Watts @ 1ms • Low Leakage < 5µA above 10V • Response Time is Typically < 1ns

Mechanical Characteristics: • **Case**: Thermosetting plastic • **Finish**: Corrosion resistant • **Mounting Position**: Any • **Bi-Directional**: Polarity band will not be indicated • **Uni-Directional**: Cathode indicated by polarity band.

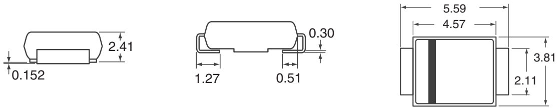

Breakdown Voltage VBR			VRWM Min. (V)	IR @ VRWM (µA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 2,500
Min.	Nom.	Max.				1	10	100		
600 Watts, Bi-Directional — RoHS Compliant										
11.1	11.69	12.27	10	5	1SMB10CAT3GOSCT-ND	.62	4.91	33.57	1SMB10CAT3GOSTR-ND	142.00/M
13.3	14.00	14.7	12	5	1SMB12CAT3GOSCT-ND	.62	4.91	33.57	1SMB12CAT3GOSTR-ND	142.00/M
14.3	15	15.8	12.8	5	P6SMB15CAT3GOSCT-ND	.50	3.97	29.76	P6SMB15CAT3GOSTR-ND	140.00/M
16.7	17.58	18.5	15	5	1SMB15CAT3GOSCT-ND	.62	4.91	33.57	1SMB15CAT3GOSTR-ND	142.00/M
17.8	18.74	19.7	16	5	1SMB16CAT3GOSCT-ND	.62	4.91	33.57	1SMB16CAT3GOSTR-ND	142.00/M
20.0	21.06	22.1	18	5	1SMB18CAT3GOSCT-ND	.62	4.91	33.57	1SMB18CAT3GOSTR-ND	142.00/M
22.2	23.37	24.5	20	5	1SMB20CAT3GOSCT-ND	.62	4.91	33.57	1SMB20CAT3GOSTR-ND	142.00/M
33.3	35.06	36.8	30	5	1SMB30CAT3GOSCT-ND	.62	4.91	33.57	1SMB30CAT3GOSTR-ND	142.00/M
40.0	42.11	44.2	36	5	1SMB36CAT3GOSCT-ND	.62	4.91	33.57	1SMB36CAT3GOSTR-ND	142.00/M
600 Watts, Uni-Directional										
6.40	6.7	7.0	5.0	800	1SMB5.0AT3GOSCT-ND◆	.52	4.11	28.13	1SMB5.0AT3GOSTR-ND◆	119.00/M
6.45	6.8	7.14	5.8	1000	P6SMB6.8AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB6.8AT3GOSTR-ND◆	124.00/M
7.22	7.6	7.98	6.5	500	1SMB6.5AT3GOSCT-ND◆	.52	4.11	28.13	1SMB6.5AT3GOSTR-ND◆	119.00/M
7.78	8.19	8.6	7.0	500	1SMB7.0AT3GOSCT-ND◆	.45	3.52	24.08	1SMB7.0AT3GOSTR-ND◆	96.00/M
9.44	9.92	10.4	8.5	10	1SMB8.5AT3GOSCT-ND◆	.52	4.11	28.13	1SMB8.5AT3GOSTR-ND◆	119.00/M
11.1	11.7	12.3	10	5	1SMB10AT3GOSCT-ND◆	.48	3.74	25.57	1SMB10AT3GOSTR-ND◆	108.00/M
13.3	14	14.7	12	5	1SMB12AT3GOSCT-ND◆	.52	4.11	28.13	1SMB12AT3GOSTR-ND◆	119.00/M
14.3	15	15.8	12.8	5	P6SMB15AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB15AT3GOSTR-ND◆	124.00/M
14.4	15.15	15.9	13	5	1SMB13AT3GOSCT-ND◆	.52	4.11	28.13	1SMB13AT3GOSTR-ND◆	119.00/M
16.7	17.6	18.5	15	5	1SMB15AT3GOSCT-ND◆	.52	4.11	28.13	1SMB15AT3GOSTR-ND◆	119.00/M
20.0	21.05	22.1	18	5	1SMB18AT3GOSCT-ND◆	.52	4.11	28.13	1SMB18AT3GOSTR-ND◆	119.00/M
22.2	23.35	24.5	20	5	1SMB20AT3GOSCT-ND◆	.52	4.11	28.13	1SMB20AT3GOSTR-ND◆	119.00/M
24.4	25.65	26.9	22	5	1SMB22AT3GOSCT-ND◆	.52	4.11	28.13	1SMB22AT3GOSTR-ND◆	119.00/M
25.7	27	28.4	23.1	5	P6SMB27AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB27AT3GOSTR-ND◆	124.00/M
26.7	28.1	29.5	24	5	1SMB24AT3GOSCT-ND◆	.52	4.11	28.13	1SMB24AT3GOSTR-ND◆	119.00/M
28.5	30	31.5	25.6	5	P6SMB30AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB30AT3GOSTR-ND◆	124.00/M
28.9	30.4	31.9	26	5	1SMB26AT3GOSCT-ND◆	.52	4.11	28.13	1SMB26AT3GOSTR-ND◆	119.00/M
31.1	32.75	34.4	28	5	1SMB28AT3GOSCT-ND◆	.52	4.11	28.13	1SMB28AT3GOSTR-ND◆	119.00/M
33.3	35.05	36.8	30	5	1SMB30AT3GOSCT-ND◆	.52	4.11	28.13	1SMB30AT3GOSTR-ND◆	119.00/M
34.2	36	37.8	30.8	5	P6SMB36AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB36AT3GOSTR-ND◆	124.00/M
36.7	38.65	40.6	33	5	1SMB33AT3GOSCT-ND◆	.52	4.11	28.13	1SMB33AT3GOSTR-ND◆	119.00/M
37.1	39	41	33.3	5	P6SMB39AT3GOSCT-ND◆	.54	4.28	29.32	P6SMB39AT3GOSTR-ND◆	124.00/M
40.0	42.1	44.2	36	5	1SMB36AT3GOSCT-ND◆	.52	4.11	28.13	1SMB36AT3GOSTR-ND◆	119.00/M
44.4	46.75	49.1	40	5	1SMB40AT3GOSCT-ND◆	.52	4.11	28.13	1SMB40AT3GOSTR-ND◆	119.00/M
47.8	50.3	52.8	43	5	1SMB43AT3OSCT-ND	.64	5.55	43.81	—	—
47.8	50.3	52.8	43	5	1SMB43AT3GOSCT-ND◆	.52	4.11	28.13	1SMB43AT3GOSTR-ND◆	119.00/M
56.7	59.7	62.7	51	5	1SMB51AT3GOSCT-ND◆	.52	4.11	28.13	1SMB51AT3GOSTR-ND◆	119.00/M
64.4	67.8	71.2	58	5	1SMB58AT3GOSCT-ND◆	.52	4.11	28.13	1SMB58AT3GOSTR-ND◆	119.00/M
77.8	81.9	86	70	5	1SMB70AT3GOSCT-ND◆	.52	4.11	28.13	1SMB70AT3GOSTR-ND◆	119.00/M
94.4	99.2	104	85	5	1SMB85AT3GOSCT-ND◆	.61	4.80	32.85	1SMB85AT3GOSTR-ND◆	139.00/M
133	140	147	120	5	1SMB120AT3GOSCT-ND◆	.54	4.30	32.25	1SMB120AT3GOSTR-ND◆	151.00/M
152	160	168	136	5	P6SMB160AT3OSCT-ND	.64	5.55	43.81	—	—
189	199	209	170	5	1SMB170AT3GOSCT-ND◆	.54	4.30	32.25	1SMB170AT3GOSTR-ND◆	151.00/M
190	200	210	171	5	P6SMB200AT3GOSCT-ND◆	.54	4.30	32.25	P6SMB200AT3GOSTR-ND◆	151.00/M

◆ ***RoHS Compliant***

1500 Watt SMC Surface Mount TVS - Uni-Directional

Digi-Reel®

Dimensions in mm

Specifications:
- Peak Power — 1500W@1ms • Low Leakage <5µA above 10V • Response time is typically <1ns

Mechanical Characteristics:
- Case: Thermosetting plastic • Finish: Corrosion resistant • Polarity: Cathode indicated by molded polarity notch
- Mounting Position: Any

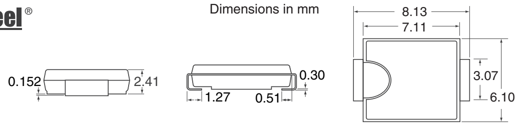

Breakdown Voltage VBR			VRWM Minimum (V)	IR @ VRWM (µA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 2,500
Min.	Nom.	Max.				1	10	100		
6.4	6.7	7.0	5.0	1,000	1SMC5.0AT3GOSCT-ND◆	.75	6.01	45.08	1SMC5.0AT3GOSTR-ND◆	212.00/M
6.67	7.02	7.37	6.0	1,000	1SMC6.0AT3GOSCT-ND◆	.75	6.01	45.08	1SMC6.0AT3GOSTR-ND◆	212.00/M
13.3	14	14.7	12	5	1SMC12AT3OSCT-ND	.91	7.83	61.85	—	—
13.3	14	14.7	12	5	1SMC12AT3GOSCT-ND◆	.75	6.01	45.08	1SMC12AT3GOSTR-ND◆	212.00/M
16.7	17.6	18.5	15	5	1SMC15AT3GOSCT-ND◆	.75	6.01	45.08	1SMC15AT3GOSTR-ND◆	212.00/M
20	21.05	22.1	18	5	1SMC18AT3GOSCT-ND◆	.75	6.01	45.08	1SMC18AT3GOSTR-ND◆	212.00/M
26.7	28.1	29.5	24	5	1SMC24AT3GOSCT-ND◆	.75	6.01	45.08	1SMC24AT3GOSTR-ND◆	212.00/M
28.9	30.4	31.9	26	5	1SMC26AT3GOSCT-ND◆	.75	6.01	45.08	1SMC26AT3GOSTR-ND◆	212.00/M
31.1	32.75	34.4	28	5	1SMC28AT3GOSCT-ND◆	.75	6.01	45.08	1SMC28AT3GOSTR-ND◆	212.00/M
36.7	38.65	40.6	33	5	1SMC33AT3GOSCT-ND◆	.75	6.01	45.08	1SMC33AT3GOSTR-ND◆	212.00/M
40	42.1	44.2	36	5	1SMC36AT3GOSCT-ND◆	.75	6.01	45.08	1SMC36AT3GOSTR-ND◆	212.00/M
56.7	59.7	62.7	51	5	1SMC51AT3GOSCT-ND◆	.75	6.01	45.08	1SMC51AT3GOSTR-ND◆	212.00/M
6.45	6.8	7.14	5.8	1,000	1.5SMC6.8AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC6.8AT3GOSTR-ND◆	212.00/M
14.3	15	15.8	12.8	5	1.5SMC15AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC15AT3GOSTR-ND◆	212.00/M
17.1	18	18.9	15.3	5	1.5SMC18AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC18AT3GOSTR-ND◆	212.00/M
22.8	24	25.2	20.5	5	1.5SMC24AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC24AT3GOSTR-ND◆	212.00/M
25.7	27	28.4	23.1	5	1.5SMC27AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC27AT3GOSTR-ND◆	212.00/M
28.5	30	31.5	25.6	5	1.5SMC30AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC30AT3GOSTR-ND◆	212.00/M
31.4	33	34.7	28.2	5	1.5SMC33AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC33AT3GOSTR-ND◆	212.00/M
34.2	36	37.8	30.8	5	1.5SMC36AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC36AT3GOSTR-ND◆	212.00/M
37.1	39	41	33.3	5	1.5SMC39AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC39AT3GOSTR-ND◆	212.00/M
40.9	43	45.2	36.8	5	1.5SMC43AT3GOSCT-ND◆	.75	6.01	45.08	1.5SMC43AT3GOSTR-ND◆	212.00/M

◆ ***RoHS Compliant***

(Continued)

1500 Watt Mosorb™ TVS

Dimensions in mm

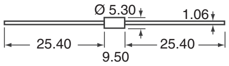

Specifications: • Maximum clamp voltage @ peak pulse current • Low leakage <5µA above 10V • Response time is typically < 1ns
Mechanical Characteristics: • Case: Void-free, transfer-model, thermosetting plastic • Finish: All external surfaces are corrosion resistant and leads are readily solderable • Maximum lead temperature for soldering purposes: 230°C, 1/16" from case for 10 seconds • Polarity: Cathode indicated by polarity band • Mounting Position: Any

Breakdown Voltage VBR			VRWM	IR @ VRWM	Digi-Key	Pricing				Digi-Key	Tape and Reel
Min.	Nom.	Max.	Min. (V)	(µA)	Part No.	1	10	100	250	Part No.	Pricing 1,500
					1.5KE Series						
6.45	6.8	7.14	5.8	1,000	1.5KE6.8AGOS-ND◆	.71	5.96	44.71	96.88	—	—
14.3	15	15.8	12.8	5	1.5KE15AGOS-ND◆	.71	5.96	44.71	96.88	—	—
15.2	16	16.8	13.6	5	1.5KE16AGOS-ND◆	.71	5.96	44.71	96.88	—	—
17.1	18	18.9	15.3	5	1.5KE18AGOS-ND◆	.71	5.96	44.71	96.88	—	—
19	20	21	17.1	5	1.5KE20AGOS-ND◆	.71	5.96	44.71	96.88	—	—
25.7	27	28.4	23.1	5	1.5KE27AGOS-ND◆	.71	5.96	44.71	96.88	—	—
28.5	30	31.5	25.6	5	1.5KE30AGOS-ND◆	.71	5.96	44.71	96.88	—	—
31.4	33	34.7	28.2	5	1.5KE33AGOS-ND◆	.71	5.96	44.71	96.88	—	—
34.2	36	37.8	30.8	5	1.5KE36ARL4GOSCT-ND◆	.82	6.56	49.18	106.19	1.5KE36ARL4GOSTR-ND◆	253.00/M
37.1	39	41	33.3	5	1.5KE39ARL4GOSCT-ND◆	.82	6.56	49.18	106.19	1.5KE39ARL4GOSTR-ND◆	253.00/M
40.9	43	45.2	36.8	5	1.5KE43AGOS-ND◆	.71	5.96	44.71	96.88	—	—
53.2	56	58.8	47.8	5	1.5KE56ARL4GOSCT-ND◆	.70	5.62	42.17	93.15	1.5KE56ARL4GOSTR-ND◆	205.00/M
58.9	62	65.1	53	5	1.5KE62AGOS-ND◆	.71	5.96	44.71	96.88	—	—
64.6	68	71.4	58.1	5	1.5KE68AGOS-ND◆	.71	5.96	44.71	96.88	—	—
190	200	210	171	5	1.5KE200AGOS-ND◆	1.77	15.99	128.52	280.00	—	—
					JEDEC Series — RoHS Compliant						
6.0	—	—	5	300	1N6373RL4GOSCT-ND	.68	5.90	46.59	100.95	1N6373RL4GOSTR-ND	248.00/M
6.0	6.2	—	5	300	1N5908RL4GOSCT-ND	.68	5.90	46.59	100.95	1N5908RL4GOSTR-ND	248.00/M
6.45	6.8	7.14	5.8	1,000	1N6267ARL4GOSCT-ND	.68	5.90	46.59	100.95	1N6267ARL4GOSTR-ND	248.00/M
9.5	10	10.5	8.55	10	1N6271AGOS-ND	.50	4.41	34.05	73.77	—	—
12.4	13	13.7	11.1	5	1N6274AGOS-ND	.62	5.44	41.93	91.24	—	—
14.3	15	15.8	12.8	5	1N6275AGOS-ND	.62	5.44	41.93	91.24	—	—
15.2	16	16.8	13.6	5	1N6276AGOS-ND	.62	5.44	41.93	91.24	—	—
17.1	18	18.9	15.3	5	1N6277AGOS-ND	.62	5.44	41.93	91.24	—	—
17.6	—	—	15	2	1N6377GOS-ND	.62	5.44	41.93	91.24	—	—
25.7	27	28.4	23.1	5	1N6281AGOS-ND	.62	5.44	41.93	91.24	—	—
28.5	30	31.5	25.6	5	1N6282ARL4GOSCT-ND	.68	5.90	46.59	100.95	1N6282ARL4GOSTR-ND	248.00/M
31.4	33	34.7	28.2	5	1N6283AGOS-ND	.62	5.44	41.93	91.24	—	—
34.2	36	37.8	30.8	5	1N6284AGOS-ND	.62	5.44	41.93	91.24	—	—
37.1	39	41	33.3	5	1N6285AGOS-ND	.62	5.44	41.93	91.24	—	—
40.9	43	45.2	36.8	5	1N6286AGOS-ND	.62	5.44	41.93	91.24	—	—
44.7	47	49.4	40.2	5	1N6287AGOS-ND	.62	5.44	41.93	91.24	—	—
42.4	—	—	36	2	1N6380GOS-ND	.62	5.44	41.93	91.24	—	—
48.5	51	53.6	43.6	5	1N6288ARL4GOSCT-ND	.68	5.90	46.59	100.95	1N6288ARL4GOSTR-ND	248.00/M
58.9	62	65.1	53	5	1N6290AGOS-ND	.62	5.44	41.93	91.24	—	—
86.5	91	95.5	77.8	5	1N6294ARL4GOSCT-ND	.68	5.90	46.59	100.95	1N6294ARL4GOSTR-ND	248.00/M

◆ ***RoHS Compliant***

H

ESD Protection Diodes

Fig. 1 — SOT-723

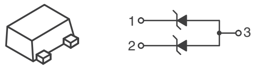

Fig. 2 — SOD-923

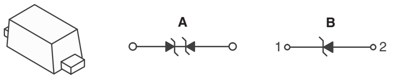

Fig.	Package	VBR Min.	VRWM Max. (V)	IR @ VRWM (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 8,000
1	SOT-723	5.0	3.3	1.0	ESD7C3.3DT5GOSCT-ND	.52	3.65	24.30	ESD7C3.3DT5GOSTR-ND	83.00/M
	SOT-723	11	5.0	0.5	ESD7C5.0DT5GOSCT-ND	.52	3.65	24.30	ESD7C5.0DT5GOSTR-ND	83.00/M
	SOT-723	5.4	5.0	1.0	ESD7L5.0DT5GOSCT-ND	.76	6.53	51.54	—	—
2A	SOD-923	5.0	5.0	1.0	ESD9B5.0ST5GOSCT-ND	.62	4.22	19.87	ESD9B5.0ST5GOSTR-ND	50.00/M
2B	SOD-923	5.0	3.3	1.0	ESD9C3.3ST5GOSCT-ND	.48	3.46	20.74	ESD9C3.3ST5GOSTR-ND	62.00/M
	SOD-923	11	5.0	0.5	ESD9C5.0ST5GOSCT-ND	.48	3.46	20.74	ESD9C5.0ST5GOSTR-ND	62.00/M

ESD TVS

Dimensions in mm

Fig. 1 — SC-74

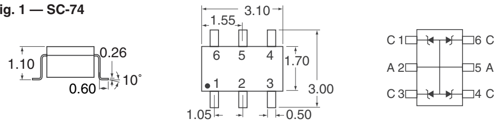

Fig. 2 — SOT-323

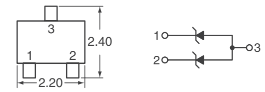

Fig. 3 — SOD-323

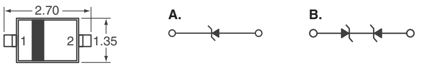

Fig. 4 — SC-89

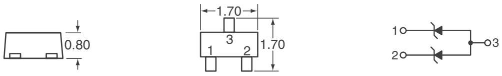

Fig. 5 — SOT-23

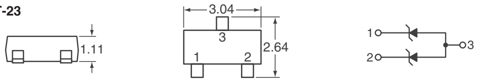

Fig.	Breakdown Voltage VBR Min.	Nom.	Max.	VRWM Min. (V)	IR @ VRWM (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	5.32	5.6	5.88	3.0	2.0	MMQA5V6T1GOSCT-ND	.58	4.13	27.50	MMQA5V6T1GOSTR-ND	99.00/M
	6.0	—	7.2	5.0	20	SMS05T1GOSCT-ND	.54	4.28	29.25	SMS05T1GOSTR-ND	124.00/M
2	6.4	6.8	7.2	5.0	0.05	DF3A6.8FUT1GOSCT-ND	.48	3.38	22.50	DF3A6.8FUT1GOSTR-ND	81.00/M
3A	6.2	—	7.3	5.0	10	SD05T1GOSCT-ND	.53	3.73	24.84	SD05T1GOSTR-ND	89.00/M
	13.3	—	15.75	12.0	1.0	SD12T1GOSCT-ND	.53	3.73	24.84	SD12T1GOSTR-ND	89.00/M
3B	13.3	—	—	12.0	1.0	SD12CT1GOSCT-ND	.44	3.42	23.40	SD12CT1GOSTR-ND	99.00/M
4	5.32	5.6	5.88	3.0	5.0	NZL5V6AXV3T1GOSCT-ND	.56	4.00	24.00	NZL5V6AXV3T1GOSTR-ND	80.00/M
	6.46	6.8	7.14	4.5	1.0	NZL6V8AXV3T1GOSCT-ND	.56	4.00	24.00	NZL6V8AXV3T1GOSTR-ND	80.00/M
	7.12	7.5	7.88	5.0	1.0	NZL7V5AXV3T1GOSCT-ND	.56	4.00	24.00	NZL7V5AXV3T1GOSTR-ND	80.00/M
5	6.2	—	7.3	5.0	10	SM05T1GOSCT-ND	.59	4.67	31.97	SM05T1GOSTR-ND	135.00/M
	13.3	—	15.75	12.0	1.0	SM12T1GOSCT-ND	.59	4.67	31.97	SM12T1GOSTR-ND	135.00/M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Overvoltage Protection Regulator and Inrush Limiter

The LT®4356 surge stopper protects loads from high voltage transients. It regulates the output during an overvoltage event, such as load dump in automobiles, by controlling the gate of an external N-channel MOSFET. The output is limited to a safe value thereby allowing the loads to continue functioning. The LT4356 also monitors the voltage drop between the VCC and SNS pins to protect against overcurrent faults. **Features:** • Stops High Voltage Surges • Adjustable Output Clamp Voltage • Overcurrent Protection • Wide Operating Range: 4V ~ 80V • Reverse Input Protection to -60V • Fault Latchoff (LT4356-3)

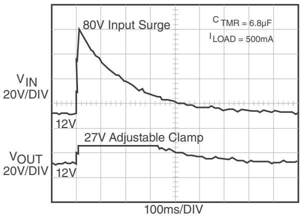

Fig. 1 — 12-DFN

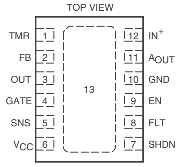

Fig. 2 — 10-MSOP

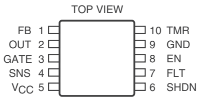

Fig. 3 — 16-SOIC

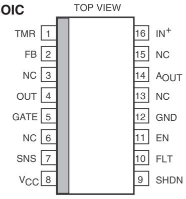

Fig.	Typical Shutdown Current (µA)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100	Linear Tech Part No.
1	7	0° ~ 70°C	12-DFN	LT4356CDE-1#PBF-ND	3.95	2.83	2.33	LT4356CDE-1#PBF
	7	-40° ~ 125°C	12-DFN	LT4356HDE-1#PBF-ND	5.18	3.70	3.05	LT4356HDE-1#PBF
	7	-40° ~ 85°C	12-DFN	LT4356IDE-1#PBF-ND	4.75	3.39	2.80	LT4356IDE-1#PBF
	60	0° ~ 70°C	12-DFN	LT4356CDE-2#PBF-ND	3.95	2.83	2.33	LT4356CDE-2#PBF
	60	-40° ~ 85°C	12-DFN	LT4356IDE-2#PBF-ND	4.75	3.39	2.80	LT4356IDE-2#PBF
	7	0° ~ 70°C	12-DFN	LT4356CDE-3#PBF-ND ***NEW!***	4.20	2.83	2.40	LT4356CDE-3#PBF
	7	-40° ~ 125°C	12-DFN	LT4356HDE-3#PBF-ND ***NEW!***	5.50	3.70	3.15	LT4356HDE-3#PBF
	7	-40° ~ 85°C	12-DFN	LT4356IDE-3#PBF-ND ***NEW!***	5.05	3.40	2.89	LT4356IDE-3#PBF
2	7	0° ~ 70°C	10-MSOP	LT4356CMS-1#PBF-ND	3.95	2.83	2.33	LT4356CMS-1#PBF
	7	-40° ~ 125°C	10-MSOP	LT4356HMS-1#PBF-ND	5.18	3.70	3.05	LT4356HMS-1#PBF
	7	-40° ~ 85°C	10-MSOP	LT4356IMS-1#PBF-ND	4.75	3.39	2.80	LT4356IMS-1#PBF
	7	-55° ~ 125°C	10-MSOP	LT4356MPMS-1#PBF-ND ***NEW!***	12.63	8.49	7.21	LT4356MPMS-1#PBF
	7	0° ~ 70°C	10-MSOP	LT4356CMS-3#PBF-ND ***NEW!***	4.20	2.83	2.40	LT4356CMS-3#PBF
	7	-40° ~ 125°C	10-MSOP	LT4356HMS-3#PBF-ND ***NEW!***	5.50	3.70	3.15	LT4356HMS-3#PBF
	7	-40° ~ 85°C	10-MSOP	LT4356IMS-3#PBF-ND ***NEW!***	5.05	3.40	2.89	LT4356IMS-3#PBF
3	7	0° ~ 70°C	16-SOIC	LT4356CS-1#PBF-ND	4.20	2.83	2.40	LT4356CS-1#PBF
	7	-40° ~ 85°C	16-SOIC	LT4356IS-1#PBF-ND	5.05	3.39	2.88	LT4356IS-1#PBF
	7	-55° ~ 125°C	16-SOIC	LT4356MPS-1#PBF-ND ***NEW!***	12.63	8.49	7.21	LT4356MPS-1#PBF
	60	0° ~ 70°C	16-SOIC	LT4356CS-2#PBF-ND	4.20	2.83	2.40	LT4356CS-2#PBF
	60	-40° ~ 85°C	16-SOIC	LT4356IS-2#PBF-ND	5.05	3.40	2.89	LT4356IS-2#PBF
	7	-55° ~ 125°C	16-SOIC	LT4356MPS-2#PBF-ND ***NEW!***	12.63	8.49	7.21	LT4356MPS-2#PBF
	7	0° ~ 70°C	16-SOIC	LT4356CS-3#PBF-ND ***NEW!***	4.20	2.83	2.40	LT4356CS-3#PBF
	7	-40° ~ 125°C	16-SOIC	LT4356HS-3#PBF-ND ***NEW!***	5.50	3.70	3.15	LT4356HS-3#PBF
	7	-40° ~ 85°C	16-SOIC	LT4356IS-3#PBF-ND ***NEW!***	5.05	3.40	2.89	LT4356IS-3#PBF

Semiconductor

ESD Protection Diodes

H

Fig. 1

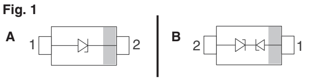

Fig. 2

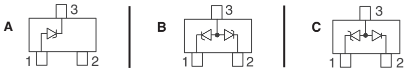

Fig. 3

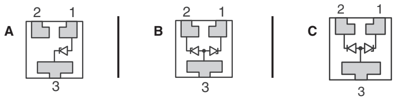

Fig. 4

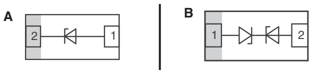

Fig. 5

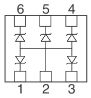

Fig. 6

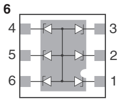

Fig. 7

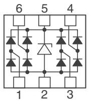

Fig. 8

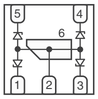

Fig. 9

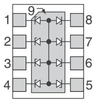

Fig.	Package	VBR Minimum	VBR Nominal	Vrwm Min. (V)	IR@Vrwm Max. (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Semiconductor Part No.
Single-Line ESD Protection Diodes													
1A	SMF®	6.4	—	5	400	751-1426-1-ND	.55	4.33	29.64	751-1426-2-ND	3,000	125.00/M	SMF5V0A-GS08
	SMF	7.22	—	6.5	250	751-1436-1-ND	.45	3.50	23.95	751-1436-2-ND	3,000	125.00/M	SMF6V5A-GS08
	SMF	11.1	—	10	2.5	751-1427-1-ND	.55	4.33	29.64	751-1427-2-ND	3,000	125.00/M	SMF10A-GS08
	SMF	13.3	—	12	2.5	751-1437-1-ND	.45	3.50	23.95	—	—	—	SMF12A-GS08
	SMF	16.7	—	15	1	751-1431-1-ND	.55	4.33	29.64	751-1431-2-ND	3,000	125.00/M	SMF15A-GS08
	SMF	20	—	18	1	751-1439-1-ND	.45	3.50	23.95	751-1439-2-ND	3,000	125.00/M	SMF18A-GS08
	SMF	26.7	—	24	1	751-1421-1-ND	.45	3.50	23.95	751-1421-2-ND	3,000	125.00/M	SMF24A-GS08
	SMF	36.7	—	33	1	751-1422-1-ND	.55	4.33	29.64	751-1422-2-ND	3,000	125.00/M	SMF33A-GS08
	SMF	47.8	—	43	1	751-1432-1-ND	.45	3.50	23.95	—	—	—	SMF43A-GS08
	SOD-523	4	—	3	20	751-1406-1-ND	.52	3.68	24.50	751-1406-2-ND	3,000	88.00/M	VESD03-02V-GS08
	SOD-523	6.5	—	5	0.1	751-1410-1-ND	.52	3.68	24.50	751-1410-2-ND	3,000	88.00/M	VESD05-02V-GS08
	SOD-523	6	6.8	5	0.1	751-1407-1-ND	.58	4.13	27.50	751-1407-2-ND	3,000	99.00/M	VESD05A1B-02V-GS08
	SOD-523	6	6.8	5	1	751-1440-1-ND	.58	4.13	27.50	751-1440-2-ND	3,000	99.00/M	VESD05A1-02V-GS08
	SOD-523	9	—	8	0.1	751-1438-1-ND	.42	2.96	19.75	751-1438-2-ND	3,000	88.00/M	VESD08-02V-GS08
	SOD-923	5	6	3.3	1	751-1458-1-ND	.59	4.20	28.00	751-1458-2-ND	8,000	95.00/M	VESD03A1C-02Z-GS08
	SOD-923	6	6.8	5	0.1	751-1428-1-ND	.59	4.20	28.00	751-1428-2-ND	8,000	95.00/M	VESD05A1B-02Z-GS08
	SOD-923	13.5	14	12	0.1	751-1459-1-ND	.59	4.20	28.00	751-1459-2-ND	8,000	95.00/M	VESD12A1C-02Z-GS08
2A	SOT-23	4	4.6	3.3	100	751-1397-1-ND	.48	3.38	22.50	751-1397-2-ND	3,000	81.00/M	GSOT03-GS08
	SOT-23	6	6.8	5	10	751-1416-1-ND	.48	3.38	22.50	751-1416-2-ND	3,000	81.00/M	GSOT05-GS08
	SOT-23	13.5	15	12	1	751-1393-1-ND	.48	3.38	22.50	751-1393-2-ND	3,000	81.00/M	GSOT12-GS08
	SOT-23	16.5	18	15	1	751-1405-1-ND	.48	3.38	22.50	751-1405-2-ND	3,000	81.00/M	GSOT15-GS08
3A	LLP75-3B	4	4.6	3.3	100	751-1402-1-ND	.40	3.11	21.27	—	—	—	GSOT03-HT3-GS08
	LLP75-3B	6	6.8	5	10	751-1408-1-ND	.40	3.11	21.27	751-1408-2-ND	3,000	90.00/M	GSOT05-HT3-GS08
	LLP75-3B	13.5	15	12	1	751-1418-1-ND	.40	3.11	21.27	—	—	—	GSOT12-HT3-GS08
4A	LLP1006-2L	6.9	7.9	5	0.1	751-1447-1-ND	.48	3.38	22.50	751-1447-2-ND	8,000	77.00/M	VBUS051BD-HD1-GS08
	LLP1006-2L	5	6	3.3	0.5	751-1450-1-ND	.48	3.38	22.50	751-1450-2-ND	8,000	77.00/M	VESD03A1B-HD1-GS08
	LLP1006-2L	6	6.8	5	1	751-1451-1-ND	.48	3.38	22.50	751-1451-2-ND	8,000	77.00/M	VESD05A1A-HD1-GS08
	LLP1006-2L	6	6.8	5	0.1	751-1452-1-ND	.48	3.38	22.50	751-1452-2-ND	8,000	77.00/M	VESD05A1B-HD1-GS08
Bidirectional Asymmetrical (BiAs) Single Line ESD Protection Diodes													
1B	SOD-923	7.3	—	7	0.1	751-1409-1-ND	.48	3.38	22.50	751-1409-2-ND	8,000	77.00/M	VCUT0714A-02Z-GS08
2B	SOT-23	4.5	5.3	3.8	100	751-1398-1-ND	.53	3.75	25.00	751-1398-2-ND	3,000	90.00/M	GSOT03C-GS08
	SOT-23	6.5	7.5	5.5	10	751-1415-1-ND	.53	3.75	25.00	751-1415-2-ND	3,000	90.00/M	GSOT05C-GS08

(Continued)

ESD Protection Diodes *(Cont.)*

Fig.	Package	VBR Minimum	VBR Nominal	Vrwm Min. (V)	IR@Vrwm Max. (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Semiconductor Part No.
2B	SOT-23	9.5	10.7	8.5	5	751-1417-1-ND	.53	3.75	25.00	751-1417-2-ND	3,000	90.00/M	GSOT08C-GS08
	SOT-23	13.5	15.7	12.5	1	751-1414-1-ND	.53	3.75	25.00	751-1414-2-ND	3,000	90.00/M	GSOT12C-GS08
	SOT-23	39.5	43.7	36.5	1	751-1404-1-ND	.53	3.75	25.00	751-1404-2-ND	3,000	90.00/M	GSOT36C-GS08
3B	LLP75-3B	6	6.8	5	10	751-1412-1-ND	.42	3.32	22.69	—	—	—	GSOT05C-HT3-GS08
	LLP75-3B	13.5	15	12	1	751-1411-1-ND	.50	3.82	25.92	—	—	—	GSOT12C-HT3-GS08
4B	LLP1006-2L	7	—	5	0.1	751-1448-1-ND	.56	4.00	24.00	751-1448-2-ND	8,000	72.00/M	VCUT0505B-HD1-GS08
	LLP1006-2L	7.3	—	7	0.1	751-1449-1-ND	.56	4.00	24.00	751-1449-2-ND	8,000	72.00/M	VCUT0714A-HD1-GS08
High Speed ESD Protection Diodes													
2C	SOT-23	6	—	5	20	751-1395-1-ND	.48	3.38	22.50	751-1395-2-ND	3,000	81.00/M	GL05T-GS08
	SOT-23	16.7	—	15	1	751-1419-1-ND	.48	3.38	22.50	751-1419-2-ND	3,000	81.00/M	GL15T-GS08
3C	LLP75-3B	16.7	—	15	1	751-1394-1-ND	.40	3.11	21.27	—	—	—	GL15-HT3-GS08
ESD Protection Diode Arrays													
5	LLP75-6A	6	—	5 Max.	1	751-1413-1-ND	.62	4.99	37.42	751-1413-2-ND	3,000	217.00/M	GMF05C-HS3-GS08
	LLP75-6A	6	—	5	0.1	751-1423-1-ND	.69	5.54	41.58	751-1423-2-ND	3,000	195.00/M	GMF05LC-HS3-GS08
Six-Line ESD Protection Diode Array													
6	LLP75-7A	6	6.6	5	1	751-1441-1-ND	.57	4.58	34.32	751-1441-2-ND	3,000	161.00/M	VESD05A6-HA3-GS08
Four-Line BUS-port ESD Protection Diode													
7	LLP75-6A	6.9	7.9	5	0.1	751-1434-1-ND	.70	6.08	48.00	751-1434-2-ND	3,000	232.00/M	VBUS054B-HS3-GS08
	LLP75-6L	6.9	7.9	5	0.1	751-1453-1-ND	.75	6.46	51.00	751-1453-2-ND	3,000	247.00/M	VBUS054B-HSF-GS08
8	LLP1010-6L	6	—	5	0.1	751-1454-1-ND	.52	4.14	31.02	751-1454-2-ND	5,000	136.00/M	VESD05A4A-HS4-GS08
	LLP1010-6L	11.2	—	9	0.1	751-1457-1-ND	.52	4.14	31.02	751-1457-2-ND	5,000	136.00/M	VESD09A4A-HS4-GS08
Eight-Line ESD Protection Diode Array													
9	LLP1713-9L	6	—	5	1	751-1435-1-ND	.72	5.72	42.90	751-1435-2-ND	3,000	202.00/M	VESD05A8A-HNH-GS08

EMI Filters with ESD Protection

Fig. 1

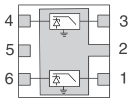

Fig. 2

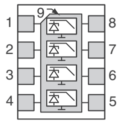

Fig. 3

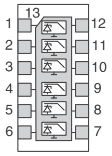

Fig. 4

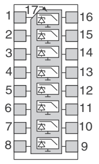

Fig.	Package	No. of Channels	VRWM Min. (V)	IR @ VRWM Max. (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Vishay Semiconductor Part No.
1	LLP75-6A	2	5	1	751-1424-1-ND	.40	3.21	24.06	751-1424-2-ND	140.00/M	VEMI255A-HS3-GS08
2	LLP1713-9L	4	5	1	751-1420-1-ND	.53	4.28	32.08	751-1420-2-ND	186.00/M	VEMI45AA-HNH-GS08
3	LLP2513-DL	6	5	1	751-1425-1-ND	.54	4.63	36.54	751-1425-2-ND	218.00/M	VEMI65AA-HCI-GS08
	LLP2513-13L	6	5	1	751-1455-1-ND	.66	5.70	45.00	751-1455-2-ND	218.00/M	VEMI65AB-HCI-GS08
4	LLP3313-17L	8	5	1	751-1456-1-ND	.79	6.84	54.00	751-1456-2-ND	261.00/M	VEMI85AB-HGK-GS08
	LLP3313-HL	8	5	1	751-1430-1-ND	.79	6.84	54.00	751-1430-2-ND	261.00/M	VEMI85AA-HGK-GS08

VISHAY. General Semiconductor

Transient Voltage Suppressors

Dimensions in mm

Fig. 1 — SMA, SMB, SMC

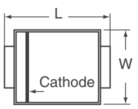

Fig. 2 — DO-204AC

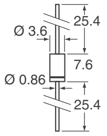

Fig. 3 — DO-215AA

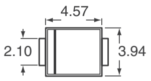

Fig. 4 — 1.5KE

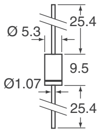

Fig. 5 — SMP

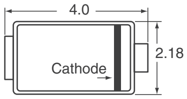

Fig. 6 — MicroSMP

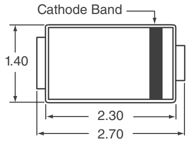

Fig. 7 — DO-218AB ***NEW!***

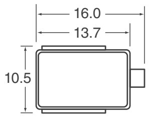

Fig.	Pw Watts	Breakdown Voltage VBR Minimum	Maximum	IT (mA)	Dimensions - mm L	W	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Unidirectional													
1	300	111	123	1.0	5.28	2.79	SMAJ100A-E3/1GI-ND†	.59	4.45	34.45	—	—	—
	400	6.40	7.07	10	5.28	2.79	SMAJ5.0A-E3/1GI-ND†	.57	4.27	33.05	—	—	—
	400	6.40	7.07	10	5.28	2.79	SMAJ5.0A-E3/61GICT-ND	.54	4.28	29.32	SMAJ5.0A-E3/61GITR-ND	1,800	135.00/M
	400	11.1	12.3	1.0	5.28	2.79	SMAJ10A-E3/61GICT-ND	.54	4.28	29.32	SMAJ10A-E3/61GITR-ND	1,800	135.00/M
	400	13.3	14.7	1.0	5.28	2.79	SMAJ12A-E3/61GICT-ND	.54	4.28	29.32	SMAJ12A-E3/61GITR-ND	1,800	135.00/M
	400	16.7	18.5	1.0	5.28	2.79	SMAJ15A-E3/61GICT-ND	.54	4.28	29.32	SMAJ15A-E3/61GITR-ND	1,800	135.00/M
	400	20.0	22.1	1.0	5.28	2.79	SMAJ18A-E3/61GICT-ND	.54	4.28	29.32	SMAJ18A-E3/61GITR-ND	1,800	135.00/M
	400	36.7	40.6	1.0	5.28	2.79	SMAJ33A-E3/61GICT-ND	.54	4.28	29.32	SMAJ33A-E3/61GITR-ND	1,800	135.00/M
	400	40.0	44.2	1.0	5.28	2.79	SMAJ36A-E3/1GI-ND†	.59	4.45	34.45	—	—	—
	400	40.0	44.2	1.0	5.28	2.79	SMAJ36A-E3/61GICT-ND	.54	4.28	29.32	SMAJ36A-E3/61GITR-ND	1,800	135.00/M
	400	44.4	49.1	1.0	5.28	2.79	SMAJ40A-E3/61GICT-ND	.54	4.28	29.32	SMAJ40A-E3/61GITR-ND	1,800	135.00/M
	400	66.7	73.7	1.0	5.28	2.79	SMAJ60A-E3/1GI-ND†	.59	4.45	34.45	—	—	—
	600	4.1	—	1.0	5.59	3.94	SMBJ3V3-E3/52GICT-ND	.71	5.49	47.04	SMBJ3V3-E3/52GITR-ND	750	205.50
	600	6.40	7.07	10	5.59	3.94	SMBJ5.0A-E3/52GICT-ND	.54	4.28	29.32	SMBJ5.0A-E3/52GITR-ND	750	112.50
	600	13.3	14.7	1.0	5.59	3.94	SMBJ12A-E3/52GICT-ND	.54	4.28	29.32	SMBJ12A-E3/52GITR-ND	750	112.50
	600	16.7	18.5	1.0	5.59	3.94	SMBJ15A-E3/52GICT-ND	.54	4.28	29.32	SMBJ15A-E3/52GITR-ND	750	112.50
	600	26.7	29.5	1.0	5.59	3.94	SMBJ24A-E3/52GICT-ND	.54	4.28	29.32	SMBJ24A-E3/52GITR-ND	750	112.50

† Bulk

(Continued)

Transient Voltage Suppressors *(Cont.)*

	Pw	Breakdown Voltage VBR		IT	Dimensions - mm		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel	
Fig.	Watts	Minimum	Maximum	(mA)	L	W	Part No.	1	10	100	Part No.	Qty.	Pricing
1	600	28.9	31.9	1.0	5.59	3.94	SMBJ26A-E3/51GI-ND†	.76	5.71	44.17	—	—	—
	600	44.4	49.1	1.0	5.59	3.94	SMBJ40A-E3/52GICT-ND	.54	4.28	29.32	SMBJ40A-E3/52GITR-ND	750	112.50
	1500	6.40	7.07	10	8.13	6.22	SMCJ5.0A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ5.0A-E3/57TGITR-ND	850	244.80
	1500	13.3	14.7	1.0	8.13	6.22	SMCJ12A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ12A-E3/57TGITR-ND	850	244.80
	1500	16.7	18.5	1.0	8.13	6.22	SMCJ15A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ15A-E3/57TGITR-ND	850	244.80
	1500	26.7	29.5	1.0	8.13	6.22	SMCJ24A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ24A-E3/57TGITR-ND	850	244.80
	1500	36.7	40.6	1.0	8.13	6.22	SMCJ33A-E3/51TGI-ND†	.90	8.01	63.28	—	—	—
	1500	40.0	44.2	1.0	8.13	6.22	SMCJ36A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ36A-E3/57TGITR-ND	850	244.80
	1500	209	231	1.0	8.13	6.22	SMCJ188A-E3/57TGICT-ND	.73	6.26	49.44	SMCJ188A-E3/57TGITR-ND	850	244.80
2	500	6.40	7.30	10	—	—	SA5.0-E3/1GI-ND†	.85	6.62	51.03	—	—	—
	500	33.3	36.8	1.0	—	—	SA30A-E3/1GI-ND†	.69	5.36	41.34	—	—	—
	500	83.3	92.1	1.0	—	—	SA75A-E3/1GI-ND†	.69	5.36	41.34	—	—	—
	600	6.45	7.14	10	—	—	P6KE6.8A-E3/1GI-ND†	.84	6.51	50.25	—	—	—
	600	22.8	25.2	1.0	—	—	P6KE24A-E3/1GI-ND†	.70	5.45	42.07	—	—	—
3	600	13.3	14.7	1.0	—	—	SMBG12A-E3/1GI-ND†	.76	5.71	44.17	—	—	—
	600	14.4	15.9	1.0	—	—	SMBG13A-E3/5BGICT-ND	—	4.26	31.94	SMBG13A-E3/5BGITR-ND	3,200	150.00/M
4	1500	12.4	13.7	1.0	—	—	1.5KE13A-E3/1GI-ND†	1.65	12.85	99.12	—	—	—
5	250	6.45	7.14	10	—	—	TPSMP6.8AHM3/84AGICT-ND	.48	3.65	26.18	TPSMP6.8AHM3/84AGITR-ND	3,000	114.00/M
	400	22.8	25.2	1.0	—	—	TPSMP24AHM3/84AGICT-ND	.54	4.06	31.88	TPSMP24AHM3/84AGITR-ND	3,000	150.00/M
	400	40.9	45.2	1.0	—	—	TPSMP43AHM3/84AGICT-ND	.54	4.06	31.88	TPSMP43AHM3/84AGITR-ND	3,000	150.00/M
6	100	4.1	—	1.0	—	—	MSP3V3-M3/89AGICT-ND	.20	1.54	11.02	MSP3V3-M3/89AGITR-ND	4,500	68.00/M
	100	6.40	7.07	10	—	—	MSP5.0A-M3/89AGICT-ND	.36	2.61	15.37	MSP5.0A-M3/89AGITR-ND	4,500	68.00/M
7	6600	20.0	22.1	5.0	—	—	SM8S18A-E3/2DGICT-ND ***NEW!***	2.57	2.20	1.80	SM8S18A-E3/2DGITR-ND ***NEW!***	750	866.25
Bidirectional													
1	300	209	231	1.0	5.28	2.79	SMAJ188CA-E3/61GICT-ND	.56	4.40	30.12	—	—	—
	400	6.40	7.25	10	5.28	2.79	SMAJ5.0CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ5.0CA-E3/61GITR-ND	1,800	146.00/M
	400	11.1	12.3	1.0	5.28	2.79	SMAJ10CA-E3/61GICT-ND	.59	4.62	31.63	—	—	—
	400	13.3	14.7	1.0	5.28	2.79	SMAJ12CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ12CA-E3/61GITR-ND	1,800	146.00/M
	400	20.0	22.1	1.0	5.28	2.79	SMAJ18CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ18CA-E3/61GITR-ND	1,800	146.00/M
	400	24.4	26.9	1.0	5.28	2.79	SMAJ22CA-E3/61GICT-ND	.59	4.62	31.63	—	—	—
	400	26.7	29.5	1.0	5.28	2.79	SMAJ24CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ24CA-E3/61GITR-ND	1,800	146.00/M
	400	36.7	40.6	1.0	5.28	2.79	SMAJ33CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ33CA-E3/61GITR-ND	1,800	146.00/M
	400	44.4	49.1	1.0	5.28	2.79	SMAJ40CA-E3/61GICT-ND	.59	4.62	31.63	SMAJ40CA-E3/61GITR-ND	1,800	146.00/M
	600	6.40	7.25	10	5.59	3.94	SMBJ5.0CA-E3/51GI-ND†	.69	6.04	46.58	—	—	—
	600	6.40	7.25	10	5.59	3.94	SMBJ5.0CA-E3/52GICT-ND	.60	4.73	32.39	SMBJ5.0CA-E3/52GITR-ND	750	124.50
	600	8.33	9.21	1.0	5.59	3.94	SMBJ7.5CA-E3/51GI-ND†	.69	6.04	46.58	—	—	—
	600	8.89	9.83	1.0	5.59	3.94	SMBJ8.0CA-E3/51GI-ND†	.69	6.04	46.58	—	—	—
	600	13.3	14.7	1.0	5.59	3.94	SMBJ12CA-E3/52GICT-ND	.60	4.73	32.39	SMBJ12CA-E3/52GITR-ND	750	124.50
	600	16.7	18.5	1.0	5.59	3.94	SMBJ15CA-E3/1GI-ND†	.78	6.04	46.58	—	—	—
	600	16.7	18.5	1.0	5.59	3.94	SMBJ15CA-E3/52GICT-ND	.60	4.73	32.39	SMBJ15CA-E3/52GITR-ND	750	124.50
	600	26.7	29.5	1.0	5.59	3.94	SMBJ24CA-E3/52GICT-ND	.60	4.73	32.39	SMBJ24CA-E3/52GITR-ND	750	124.50
	600	36.7	40.6	1.0	5.59	3.94	SMBJ33CA-E3/1GI-ND†	.83	6.49	50.03	—	—	—
	600	44.4	49.1	1.0	5.59	3.94	SMBJ40CA-E3/52GICT-ND	.60	4.73	32.39	SMBJ40CA-E3/52GITR-ND	750	124.50
	600	50.0	55.3	1.0	5.59	3.94	SMBJ45CA-E3/1GI-ND†	.83	6.49	50.03	—	—	—
	600	53.3	58.9	1.0	5.59	3.94	SMBJ48CA-E3/51GI-ND†	.74	6.49	50.03	—	—	—
	1500	6.40	7.25	10	8.13	6.22	SMCJ5.0CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ5.0CA-E3/57TGITR-ND	850	260.10
	1500	13.3	14.7	1.0	8.13	6.22	SMCJ12CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ12CA-E3/57TGITR-ND	850	260.10
	1500	16.7	18.5	1.0	8.13	6.22	SMCJ15CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ15CA-E3/57TGITR-ND	850	260.10
	1500	26.7	29.5	1.0	8.13	6.22	SMCJ24CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ24CA-E3/57TGITR-ND	850	260.10
	1500	33.3	36.8	1.0	8.13	6.22	SMCJ30CA-E3/51TGI-ND†	1.32	11.65	92.10	—	—	—
	1500	40.0	44.2	1.0	8.13	6.22	SMCJ36CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ36CA-E3/57TGITR-ND	850	260.10
	1500	44.4	49.1	1.0	8.13	6.22	SMCJ40CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ40CA-E3/57TGITR-ND	850	260.10
	1500	50.0	55.3	1.0	8.13	6.22	SMCJ45CA-E3/57TGICT-ND ***NEW!***	.77	6.64	52.39	SMCJ45CA-E3/57TGITR-ND ***NEW!***	850	260.10
	1500	77.8	86.0	1.0	8.13	6.22	SMCJ70CA-E3/51TGI-ND†	1.32	11.65	92.10	—	—	—
	1500	209	231	1.0	8.13	6.22	SMCJ188CA-E3/57TGICT-ND	.77	6.64	52.39	SMCJ188CA-E3/57TGITR-ND	850	260.10
2	500	13.3	14.7	1.0	—	—	SA12CA-E3/1GI-ND†	.76	5.94	45.85	—	—	—
	600	6.45	7.14	10	—	—	P6KE6.8CA-E3/1GI-ND†	.86	6.73	51.89	—	—	—
	600	34.2	37.8	1.0	—	—	P6KE36CA-E3/1GI-ND†	.93	7.27	56.08	—	—	—
4	1500	8.65	9.55	1.0	—	—	1.5KE9.1CA-E3/1GI-ND†	1.37	11.89	91.48	—	—	—
	1500	28.5	31.5	1.0	—	—	1.5KE30CA-E3/51GICT-ND	1.70	15.19	120.64	1.5KE30CA-E3/51GITR-ND	1,500	670.00/M

† Bulk

ALPHA & OMEGA SEMICONDUCTOR

Transient Voltage Suppressors

Digi-Reel® RoHS COMPLIANT

Features:

Alpha & Omega Semiconductor, Inc. provides a family of ultra-low capacitance Transient Voltage Suppressor (TVS) products that are designed to protect high speed data interfaces from Electrostatic Discharge (ESD) and Lighting in mobile, digital consumer, networking, PC computing and PC peripheral applications.

Dimensions in mm

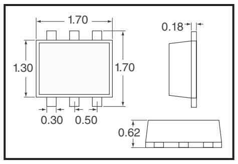

	Reverse Breakdown Voltage VBR	Vrwm Min.	IR @Vrwm	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Alpha & Omega Semiconductor
Pkg.	Minimum	(V)	Max. (μA)	Part No.	1	25	100	Part No.	Qty.	Pricing	Part No.
SC-89-6	6.6	5.0	1.0	785-1163-1-ND	.55	9.03	29.66	785-1163-2-ND	3,000	125.00/M	AOZ8001KI
	6.0	5.0	0.1	785-1168-1-ND	.48	7.94	26.22	—	—	—	AOZ8205KI

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

•M•C•C•

Micro Commercial Components

Transient Voltage Suppressors

Fig. 1 — SMA – DO-214AC

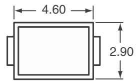

Fig. 2 — SMB(J) – DO-214AA

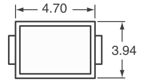

Fig. 3 — SMC(J) – DO-214AB

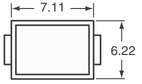

Fig. 4 — P6KE, SA, SAC – DO-15

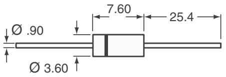

Fig. 5 — 1.5KE – DO-201AE

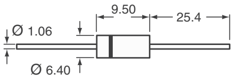

Fig. 6 — R6

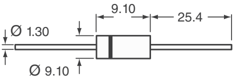

Fig. 7 — SMF – SOD-123FL ***NEW!***

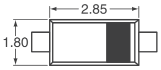

SMA — DO-214AC Value Chart

5.0	7.0	8.5	12	15	24	30	40	48	58	75	100Δ
6.0	7.5	10	13Δ	16	26	33	43	51Δ	60Δ	78	150Δ
6.5	8.0	11	14	20	28	36	45	54	70Δ	90Δ	160

SMB — DO-214AA Value Chart

5.0	7.0	8.5	11	14	17	22	28	36	45	60	78	150
6.0	7.5	9.0	12	15	18	24	30	40	48	70	85	
6.5	8.0	10	13	16	20	26	33	43Δ	58	75	100	

SMC — DO-214AB Value Chart

5.0	9.0	16	24	36	45	70	100
7.5	10	17	28	40	54	78	150
8.5	12	20	33	43	64	85	170

SMLJ — DO-214AB Value Chart

5.0	12	18	28	48
6.5	15	20	30	
10	17	24	36	

SMLJ CA— DO-214AB Value Chart

6.5	18	30
10	20	33
15	28	40

5.0SMLJ — DO-214AB Value Chart

15	24	48
18	33	150
20	36	

SA — DO-15 Value Chart

5.0Δ	12	20
6.5	15	30
10	16	33

SAC — DO-15 Value Chart

5.0	8.0	12
6.0	8.5	15
7.0	10	

3KP — R-6 Value Chart

20	30	43
24	33	48
28	36	

5KP — R-6 Value Chart

5.0	15	33	43
6.0	24	36	70
10	30	40	

SMF — SOD-123FL Value Chart

5.0	43
13	51
26	160

Fig.	Direction	Value Range	Watts	Series	Package	Digi-Key Part No.†	Cut Tape Pricing			Tape and Reel‡	
							1	10	100	Qty.	Pricing
1	Unidirectional	5.0 ~ 160	400	SMA	DO-214AC	SMAJ(Value)A-TPMSCT-ND	.55	3.89	25.52	5,000	98.60/M
	Bidirectional	5.0 ~ 48	400	SMA	DO-214AC	SMAJ(Value)CA-TPMSCT-NDΔ	.55	3.89	25.52	5,000	98.60/M
	Bidirectional	54 ~ 160	400	SMA	DO-214AC	SMAJ(Value)CA-TPMSCT-NDΔ	.55	3.89	25.52	5,000	98.60/M
2	Unidirectional	5.0 ~ 150	600	SMB	DO-214AA	SMBJ(Value)A-TPMSCT-ND	.58	4.13	27.50	3,000	99.00/M
	Bidirectional	5.0 ~ 150	600	SMB	DO-214AA	SMBJ(Value)CA-TPMSCT-NDΔ	.58	4.13	27.50	3,000	99.00/M
	Unidirectional	6.8 ~ 510	600	SMB	DO-214AA	SMBJP6KE(Value)A-TPMSCT-ND ***NEW!***	.47	3.71	25.35	3,000	107.00/M
	Bidirectional	6.8 ~ 550	600	SMB	DO-214AA	SMBJP6KE(Value)CA-TPMSCT-ND ***NEW!***	.47	3.71	25.35	3,000	107.00/M
3	Unidirectional	5.0 ~ 170	1500	SMC	DO-214AB	SMCJ(Value)A-TPMSCT-ND	.69	5.80	45.54	3,000	207.00/M
	Bidirectional	5.0 ~ 150	1500	SMC	DO-214AB	SMCJ(Value)CA-TPMSCT-ND	.81	6.51	48.84	3,000	229.00/M
	Unidirectional	6.8 ~ 91	1500	SMC	DO-214AA	SMCJ1.5KE(Value)A-TPMSCT-ND ***NEW!***	.76	6.07	45.54	3,000	214.00/M
	Bidirectional	6.8 ~ 120	1500	SMC	DO-214AA	SMCJ1.5KE(Value)CA-TPMSCT-ND ***NEW!***	.76	6.07	45.54	3,000	214.00/M
	Unidirectional	5.0 ~ 48	3000	SMC	DO-214AB	SMLJ(Value)A-TPMSCT-ND	1.12	9.52	81.20	3,000	490.00/M
	Bidirectional	6.5 ~ 40	3000	SMC	DO-214AB	SMLJ(Value)CA-TPMSCT-ND	1.28	10.88	92.80	3,000	560.00/M
	Bidirectional	24	3000	SMC	DO-214AB	SMLJ24C-TPMSCT-ND	1.28	10.88	92.80	3,000	560.00/M
	Unidirectional	15 ~ 150	5000	SMC	DO-214AB	5.0SMLJ(Value)A-TPMSCT-ND ***NEW!***	2.03	17.40	142.10	3,000	783.00/M
	Bidirectional	15 ~ 150	5000	SMC	DO-214AB	5.0SMLJ(Value)CA-TPMSCT-ND ***NEW!***	2.03	17.40	142.10	3,000	783.00/M
4	Unidirectional	5.0 ~ 33	500	SA	DO-15	SA(Value)A-TPMSCT-ND	.49	3.71	26.60	4,000	133.00/M
	Bidirectional	5.0 ~ 33	500	SA	DO-15	SA(Value)CA-TPMSCT-NDΔ	.49	3.71	26.60	4,000	133.00/M
	Unidirectional	5.0 ~ 15	500	SAC	DO-15	SAC(Value)-TPMSCT-ND	.56	4.20	33.00	4,000	185.00/M
	Unidirectional	6.8 ~ 200	600	P6KE	DO-15	P6KE(Value)A-TPMSCT-NDΔ	.49	3.71	26.60	4,000	133.00/M
	Unidirectional	220 ~ 440	600	P6KE	DO-15	P6KE(Value)A-TPMSCT-ND	.53	3.99	31.35	4,000	175.75/M
	Bidirectional	6.8 ~ 200	600	P6KE	DO-15	P6KE(Value)CA-TPMSCT-ND	.49	3.71	26.60	4,000	133.00/M
	Bidirectional	220 ~ 440	600	P6KE	DO-15	P6KE(Value)CA-TPMSCT-ND	.53	3.99	31.35	4,000	175.75/M
5	Unidirectional	6.8 ~ 200	1500	1.5KE	DO-201AE	1.5KE(Value)A-TPMSCT-ND	.55	4.40	33.00	1,200	170.00/M
	Unidirectional	220 ~ 440	1500	1.5KE	DO-201AE	1.5KE(Value)A-TPMSCT-ND	.55	4.40	33.00	1,200	170.00/M
	Bidirectional	6.8 ~100	1500	1.5KE	DO-201AE	1.5KE(Value)CA-TPMSCT-NDΔ	.55	4.40	33.00	1,200	170.00/M
	Bidirectional	110 ~ 440	1500	1.5KE	DO-201AE	1.5KE(Value)CA-TPMSCT-NDΔ	.55	4.40	33.00	1,200	170.00/M
6	Unidirectional	20 ~ 48	3000	3KP	R-6	3KP(Value)A-TPMSCT-ND	1.12	9.52	81.20	500	336.00
	Unidirectional	5.0 ~ 70	5000	5KP	R-6	5KP(Value)A-TPMSCT-ND	2.25	19.80	168.00	500	690.00
	Bidirectional	5.0 ~ 43	5000	5KP	R-6	5KP(Value)CA-TPMSCT-ND	2.25	19.80	168.00	500	690.00
	Bidirectional	70	5000	5KP	R-6	5KP70CA-TPMSCT-ND	3.50	31.00	240.00	500	950.00
7	Unidirectional	5.0 ~ 160	200	SMF	SOD-123FL	SMF(Value)A-TPMSCT-ND ***NEW!***	.53	3.75	25.00	2,500	90.00/M
NEW! Application Specific TVS NEW!											
4	136V Peak Clamp TVS, 1.5W, DO-15					SAC136-TPMSCT-ND	.79	6.84	54.00	4,000	261.00/M

P6KE — DO-15 Value Chart

6.8	9.1	13	18	27	43	68	100Δ	160	220
7.5	10	15	20	33	51	75	110	180	440
8.2	12	16	24	36	62	82	150Δ	200	

1.5KE — DO-201AE Value Chart

6.8Δ	15	24	33	43	56	91	150	250	400
10Δ	20	27	36	47	68	100	200	300	440
12Δ	22	30	39	51	82	110	220	350	

SMBJP6KE A — DO-214AA Value Chart

6.8	10	15	22	33	47	68	100	350
7.5	11	16	24	36	51	75	200	400
8.2	12	18	27	39	56	82	220	510
9.1	13	20	30	43	62	91	300	

SMBJP6KE CA — DO-214AA Value Chart

6.8	10	15	22	33	47	68	100	220	440
7.5	11	16	24	36	51	75	130	250	510
8.2	12	18	27	39	56	82	150	350	550
9.1	13	20	30	43	62	91	200	400	

SMCJ1.5KE A — DO-214AB Value Chart

6.8	10	15	22	33	47	68	100
7.5	11	16	24	36	51	75	110
8.2	12	18	27	39	56	82	120
9.1	13	20	30	43	62	91	

SMCJ1.5KE CA — DO-214AB Value Chart

6.8	9.1	12	16	22	30	39	51	68	91
7.5	10	13	18	24	33	43	56	75	100
8.2	11	15	20	27	36	47	62	82	120

† For complete part number, substitute the corresponding value from the Value Chart for (Value). ‡ For Tape and Reel part number, change CT-ND to TR-ND. Δ Value not available

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ESD – TVS

Fig. 1 — SOP-8 *NEW!*

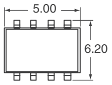

Fig. 2 — SOD-323

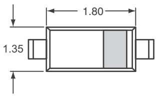

Fig. 3 — SOD-523

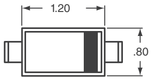

Fig. 4 — SOD-723

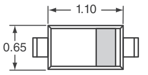

Fig. 5 — SOT-353

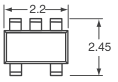

Fig. 6 — SOT-363

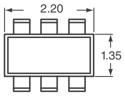

Fig. 7 — SOT-143 *NEW!*

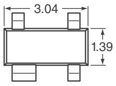

Fig. 8 — SOT-553

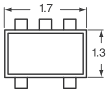

Fig. 9 — SOT-563

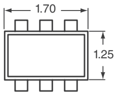

Fig. 10 — SOT-23

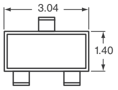

Fig. 11 — SOT-23-6L *NEW!*

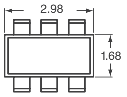

Fig.	Vrwm (V)	IT (mA)	Ppk (W)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		MCC Part No.
					1	10	100		Qty.	Pricing	
1	2.8	1.0	400	ESD2V8P8U-TPMSCT-ND ***NEW!***	2.34	20.04	163.66	ESD2V8P8U-TPMSTR-ND ***NEW!***	2,500	901.80/M	ESD2V8P8U-TP
2	5.0	1.0	350	ESD5V0D3-TPMSCT-ND	.38	2.70	15.90	ESD5V0D3-TPMSTR-ND	3,000	60.00/M	ESD5V0D3-TP
2	5.0	1.0	500	ESD5V0D3B-TPMSCT-ND ***NEW!***	.61	4.35	29.00	ESD5V0D3B-TPMSTR-ND ***NEW!***	3,000	104.00/M	ESD5V0D3B-TP
2	12.0	1.0	350	ESD12VD3-TPMSCT-ND	.38	2.70	15.90	ESD12VD3-TPMSTR-ND	3,000	60.00/M	ESD12VD3-TP
3	3.3	1.0	158	ESD3V3D5-TPMSCT-ND	.38	2.70	15.90	ESD3V3D5-TPMSTR-ND	3,000	60.00/M	ESD3V3D5-TP
3	5.0	1.0	174	ESD5V0D5-TPMSCT-ND	.38	2.70	15.90	ESD5V0D5-TPMSTR-ND	3,000	60.00/M	ESD5V0D5-TP
3	5.0	1.0	200	ESD5V0D5B-TPMSCT-ND ***NEW!***	.61	4.35	29.00	ESD5V0D5B-TPMSTR-ND ***NEW!***	3,000	104.00/M	ESD5V0D5B-TP
3	7.0	1.0	200	ESD7V0D5-TPMSCT-ND	.38	2.70	15.90	ESD7V0D5-TPMSTR-ND	3,000	60.00/M	ESD7V0D5-TP
3	12.0	1.0	240	ESD12VD5-TPMSCT-ND	.38	2.70	15.90	ESD12VD5-TPMSTR-ND	3,000	60.00/M	ESD12VD5-TP
4	3.3	1.0	113	ESD3V3D7-TPMSCT-ND	.48	3.35	22.00	ESD3V3D7-TPMSTR-ND	3,000	97.50/M	ESD3V3D7-TP
4	12.0	1.0	128	ESD12VD7-TPMSCT-ND	.53	3.75	25.00	ESD12VD7-TPMSTR-ND	8,000	85.00/M	ESD12VD7-TP
5	5.0	1.0	200	ESD5V0J4-TPMSCT-ND	.56	4.24	30.40	ESD5V0J4-TPMSTR-ND	3,000	152.00/M	ESD5V0J4-TP
6	5.0	1.0	100	ESD5V0K5-TPMSCT-ND	.53	3.98	28.50	ESD5V0K5-TPMSTR-ND	3,000	142.50/M	ESD5V0K5-TP
7	5.0	1.0	500	ESD5V0T143-4U-TPMSCT-ND ***NEW!***	1.06	9.52	75.60	ESD5V0T143-4U-TPMSTR-ND ***NEW!***	3,000	392.00/M	ESD5V0T143-4U-TP
8	5.0	1.0	200	ESD5V0L4-TPMSCT-ND	.67	5.04	39.60	ESD5V0L4-TPMSTR-ND	3,000	222.00/M	ESD5V0L4-TP
9	5.0	1.0	100	ESD5V0M5-TPMSCT-ND	.60	4.51	32.30	ESD5V0M5-TPMSTR-ND	3,000	161.50/M	ESD5V0M5-TP
10	5.0	1.0	300	SM05-TPMSCT-ND	.42	3.18	22.80	SM05-TPMSTR-ND	3,000	114.00/M	SM05-TP
10	6.1	1.0	300	ESDA6V1L-TPCT-ND	.53	3.98	28.50	ESDA6V1L-TPTR-ND	3,000	142.50/M	ESDA6V1L-TP
10	12.0	1.0	300	SM12-TPMSCT-ND	.42	3.18	22.80	SM12-TPMSTR-ND	3,000	114.00/M	SM12-TP
11	5.0	1.0	—	SRV05-4L-TPMSCT-ND ***NEW!***	1.06	9.52	75.60	SRV05-4L-TPMSTR-ND ***NEW!***	3,000	392.00/M	SRV05-4L-TP

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Teccor® SIDACtor® Product
Surge Protection

Product Description: SIDACtors are solid state crowbar devices designed to protect telecom equipment during hazardous transient conditions. Capitalizing on the latest in thyristor advancements, with a patented ion implant technology. This technology ensures effective protection to meet telecommunications regulatory requirements

Operation: In the standby mode, SIDACtors exhibit a high off-state impedance eliminating excessive leakage currents and appearing transparent to the circuits they protect. Upon application of a voltage exceeding the switching voltage (Vs), SIDACtors will crowbar and simulate a short circuit condition until the current flowing through the device is either interrupted or drops below the SIDACtors holding current (IH), once this occurs, SIDACtors will reset and return to their high off-state impedance.

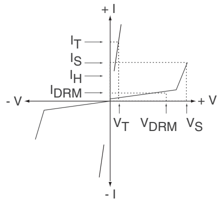

Surge Rating (Series)	Ipp 2 x 10µs (A)	Ipp 8 x 20µs (A)	Ipp 10 x 160µs (A)	Ipp 10 x 560µs (A)	Ipp 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
A	150	150	90	50	45	20	500
B	250	250	150	100	80	20	500
B1	—	—	—	100	80	25	—
B2	250	250	150	100	80	30	500
C	500	400	200	150	100	40	500
C1	500	400	200	150	100	30	500
C2	500	400	200	150	100	50	500
E	—	5,000	—	—	—	400	630

Fig. 1 — TO-92

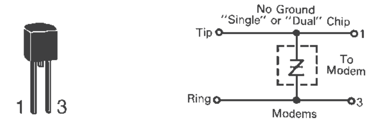

Fig. 2 — TO-220

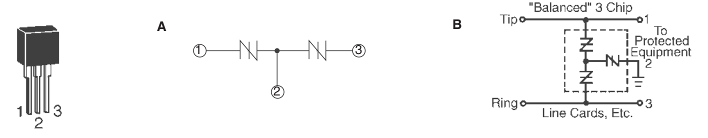

Fig. 3 — TO-218 (Non-isolated)

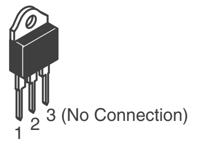

Fig. 4 — DO-214AA

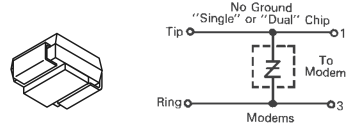

Fig. 5 — DO-15

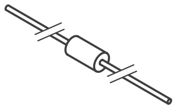

Fig. 6 — QFN

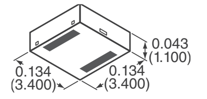

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1	TO-92	A	6	25	4	800	50	P0080EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	25	40	4	800	50	P0300EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	58	77	4	800	150	P0640EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	65	88	4	800	150	P0720EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	75	98	4	800	150	P0900EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	90	130	4	800	150	P1100EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	120	160	4	800	150	P1300EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	140	180	4	800	150	P1500EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	A	275	350	4	800	150	P3100EAL-ND	1.21	1.03	.88	.73	.58
	TO-92	B2	65	88	4	800	150	P0720EBL-ND	1.34	1.14	.97	.81	.64
	TO-92	B2	220	300	4	800	150	P2600EBL-ND	1.34	1.14	.97	.81	.64
	TO-92	B2	275	350	4	800	150	P3100EBL-ND	1.34	1.14	.97	.81	.64
	TO-92	B2	320	400	4	800	150	P3500EBL-ND	1.34	1.14	.97	.81	.64
	TO-92	C1	25	40	4	800	50	P0300ECL-ND	1.55	1.32	1.13	.94	.74
	TO-92	C2	58	77	4	800	150	P0640ECL-ND	1.55	1.32	1.13	.94	.74
	TO-92	C2	220	300	4	800	150	P2600ECL-ND	1.55	1.32	1.13	.94	.74
	TO-92	C2	275	350	4	800	150	P3100ECL-ND	1.55	1.32	1.13	.94	.74
	TO-92	C2	320	400	4	800	150	P3500ECL-ND	1.55	1.32	1.13	.94	.74
2A	Modified TO-220	A	25	40	4	800	50	P0602AAL-ND	3.23	2.85	2.42	1.99	1.51
	Modified TO-220	A	58	77	4	800	150	P1402AAL-ND	3.23	2.85	2.42	1.99	1.51
	Modified TO-220	B2	65	95	4	800	150	P1602ABL-ND	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	B2	90	130	4	800	150	P2202ABL-ND	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	B2	220	300	4	800	150	P4802ABL-ND	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	B2	275	350	4	800	150	P6002ABL-ND	3.81	3.38	2.62	2.07	1.64
2B	Modified TO-220	A	200	270	8	800	150	P2353AAL-ND‡	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	A	230	300	8	800	150	P2703AAL-ND‡	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	A	270	350	8	800	150	P3203AAL-ND‡	3.81	3.38	2.62	2.07	1.64
	Modified TO-220	B2	130	180	8	800	150	P1553ABL-ND‡	4.98	4.41	3.42	2.71	2.14
	Modified TO-220	B2	200	270	8	800	150	P2353ABL-ND‡	4.98	4.41	3.42	2.71	2.14
	Modified TO-220	B2	230	300	8	800	150	P2703ABL-ND‡	4.98	4.41	3.42	2.71	2.14
	Modified TO-220	B2	270	350	8	800	150	P3203ABL-ND‡	4.98	4.41	3.42	2.71	2.14
	Modified TO-220	B2	300	400	8	800	150	P3403ABL-ND‡	4.98	4.41	3.42	2.71	2.14
	Modified TO-220	C2	130	180	8	800	150	P1553ACL-ND‡	5.51	4.88	3.78	2.99	2.36
	Modified TO-220	C2	270	350	8	800	150	P3203ACL-ND‡	5.51	4.88	3.78	2.99	2.36
3	TO-218	E	140	220	4	800	50	P1900MEL-ND	14.75	13.37	10.61	8.30	6.69

‡ VDRM and VS between 1-2, 2-3

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
4	DO-214 AA	A	6	25	4	800	50	P0080SALRPCT-ND	1.38	1.18	1.01	P0080SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	6	25	4	800	50	P0080SAMCLRPCT-ND	1.55	1.32	1.13	P0080SAMCLRPTR-ND	2,500	679.00/M
	DO-214 AA	A	25	40	4	800	50	P0300SALRPCT-ND	1.38	1.18	1.01	P0300SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	25	40	4	800	50	P0300SAMCLRPCT-ND	1.55	1.32	1.13	P0300SAMCLRPTR-ND	2,500	679.00/M
	DO-214 AA	A	58	77	4	800	120	P0642SALRPCT-ND	1.59	1.36	1.16	P0642SALRPTR-ND	2,500	696.50/M
	DO-214 AA	A	58	77	4	800	150	P0640SALRPCT-ND	1.38	1.18	1.01	P0640SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	65	88	4	800	150	P0720SALRPCT-ND	1.38	1.18	1.01	P0720SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	75	98	4	800	150	P0900SALRPCT-ND	1.38	1.18	1.01	P0900SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	90	130	4	800	150	P1100SALRPCT-ND	1.38	1.18	1.01	P1100SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	140	180	4	800	150	P1500SALRPCT-ND	1.38	1.18	1.01	P1500SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	190	260	4	800	150	P2300SALRPCT-ND	1.38	1.18	1.01	P2300SALRPTR-ND	2,500	603.76/M
	DO-214 AA	A	220	300	4	800	150	P2600SALRPCT-ND	1.38	1.18	1.01	P2600SALRPTR-ND	2,500	603.76/M
	DO-214 AA	B2	6	25	4	800	50	P0080SBLRPCT-ND	1.51	1.29	1.10	P0080SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	25	40	4	800	50	P0300SBLRPCT-ND	1.51	1.29	1.10	P0300SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	58	77	4	800	150	P0640SBLRPCT-ND	1.51	1.29	1.10	P0640SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	190	260	4	800	150	P2300SBLRPCT-ND	1.51	1.29	1.10	P2300SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	275	350	4	800	150	P3100SBLRPCT-ND	1.51	1.29	1.10	P3100SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	320	400	4	800	150	P3500SBLRPCT-ND	1.51	1.29	1.10	P3500SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	B2	220	300	4	800	150	P2600SBLRPCT-ND	1.51	1.29	1.10	P2600SBLRPTR-ND	2,500	659.76/M
	DO-214 AA	C1	6	25	4	800	50	P0080SCLRPCT-ND	1.68	1.43	1.22	P0080SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C1	6	25	4	800	50	P0080SCMCLRPCT-ND	1.85	1.58	1.35	P0080SCMCLRPTR-ND	2,500	810.26/M
	DO-214 AA	C1	25	40	4	800	50	P0300SCMCLRPCT-ND	1.85	1.58	1.35	P0300SCMCLRPTR-ND	2,500	810.26/M
	DO-214 AA	C1	58	77	4	800	150	P0640SCMCLRPCT-ND	1.85	1.58	1.35	P0640SCMCLRPTR-ND	2,500	810.26/M
	DO-214 AA	C1	65	88	4	800	150	P0720SCLRPCT-ND	1.68	1.43	1.22	P0720SCLRPTR-ND	2,500	735.00/M

(Continued)

Teccor® SIDACtor® Product
Surge Protection *(Cont.)*

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
4	DO-214 AA	C1	75	98	4	800	150	P0900SCLRPCT-ND	1.68	1.43	1.22	P0900SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C1	90	130	4	800	150	P1100SCLRPCT-ND	1.68	1.43	1.22	P1100SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C1	120	160	4	800	150	P1300SCLRPCT-ND	1.68	1.43	1.22	P1300SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C1	170	220	4	800	150	P1800SCMCLRPCT-ND	1.85	1.58	1.35	P1800SCMCLRPTR-ND	2,500	810.26/M
	DO-214 AA	C1	275	350	4	800	150	P3100SCMCLRPCT-ND	1.85	1.58	1.35	P3100SCMCLRPTR-ND	2,500	810.26/M
	DO-214 AA	C2	25	40	4	800	50	P0300SCLRPCT-ND	1.68	1.43	1.22	P0300SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	58	77	4	800	150	P0640SCLRPCT-ND	1.68	1.43	1.22	P0640SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	140	180	4	800	150	P1500SCLRPCT-ND	1.68	1.43	1.22	P1500SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	170	220	4	800	150	P1800SCLRPCT-ND	1.68	1.43	1.22	P1800SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	220	300	4	800	150	P2600SCLRPCT-ND	1.68	1.43	1.22	P2600SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	275	350	4	800	150	P3100SCLRPCT-ND	1.68	1.43	1.22	P3100SCLRPTR-ND	2,500	735.00/M
	DO-214 AA	C2	320	400	4	800	150	P3500SCLRPCT-ND	1.68	1.43	1.22	P3500SCLRPTR-ND	2,500	735.00/M
5	DO-15	B1	220	300	8	800	150	P2602GBLRPCT-ND	1.04	.81	.70	P2602GBLRPTR-ND	5,000	415.80/M
	DO-15	B1	280	360	8	800	150	P3002GBLRPCT-ND	1.04	.81	.70	P3002GBLRPTR-ND	5,000	415.80/M
	DO-15	B1	320	400	8	800	150	P3502GBLRPCT-ND	1.04	.81	.70	P3502GBLRPTR-ND	5,000	415.80/M
6	QFN	A	6	25	5	800	50	P0080Q12ALRPCT-ND	1.58	1.35	1.15	P0080Q12ALRPTR-ND	5,000	693.00/M
	QFN	A	25	40	5	800	50	P0300Q12ALRPCT-ND	1.58	1.35	1.15	P0300Q12ALRPTR-ND	5,000	693.00/M
	QFN	A	275	350	5	800	150	P3100Q12ALRPCT-ND	1.58	1.35	1.15	P3100Q12ALRPTR-ND	5,000	693.00/M
	QFN	B	6	25	5	800	50	P0080Q12BLRPCT-ND	1.74	1.48	1.26	P0080Q12BLRPTR-ND	5,000	759.50/M
	QFN	B	25	40	5	800	50	P0300Q12BLRPCT-ND	1.74	1.48	1.26	P0300Q12BLRPTR-ND	5,000	759.50/M
	QFN	B	58	77	5	800	150	P0640Q12BLRPCT-ND	1.74	1.48	1.26	P0640Q12BLRPTR-ND	5,000	759.50/M
	QFN	B	220	300	5	800	150	P2600Q12BLRPCT-ND	1.74	1.48	1.26	P2600Q12BLRPTR-ND	5,000	759.50/M
	QFN	B	275	350	5	800	150	P3100Q12BLRPCT-ND	1.74	1.48	1.26	P3100Q12BLRPTR-ND	5,000	759.50/M
	QFN	C	6	25	5	800	50	P0080Q22CLRPCT-ND	1.93	1.65	1.41	P0080Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	25	40	5	800	50	P0300Q22CLRPCT-ND	1.93	1.65	1.41	P0300Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	58	77	5	800	150	P0640Q22CLRPCT-ND	1.93	1.65	1.41	P0640Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	65	88	5	800	150	P0720Q22CLRPCT-ND	1.93	1.65	1.41	P0720Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	140	180	5	800	150	P1500Q22CLRPCT-ND	1.93	1.65	1.41	P1500Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	170	220	5	800	150	P1800Q22CLRPCT-ND	1.93	1.65	1.41	P1800Q22CLRPTR-ND	5,000	845.25/M
	QFN	C	320	400	5	800	150	P3500Q22CLRPCT-ND	1.93	1.65	1.41	P3500Q22CLRPTR-ND	5,000	845.25/M

NEW! Ethernet/PoE Protector - SEP Series

SEP series has a surge rating compatible with GR1089, TIA-968-A, IEC 61000-4-5, YD/T, ITU K.20/21 protection requirements. Targeted for high-speed applications such as 10BaseT, 100BaseT and 1000BaseT, the SEP series maintains signal quality while providing robust protection for Ethernet and PoE applications.
Junction Temperature: -40°C ~ 150°C

I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 5 x 310µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)
500	400	200	100	30

Package	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Pricing 4,000
QFN 5x6	6	25	8	800	50	SEP0080Q38CBCT-ND	3.38	2.70	2.52	1440.00/M
	58	77	8	800	150	SEP0640Q38CBCT-ND	3.38	2.97	2.52	1440.00/M
	65	88	8	800	150	SEP0720Q38CBCT-ND	3.38	2.97	2.52	1440.00/M
	75	98	8	800	150	SEP0900Q38CBCT-ND	3.38	2.97	2.52	1440.00/M
Ethernet Design Kit						ETHERNETLF-KIT-ND	73.04/1			—

† For Tape and Reel part number, change CT-ND to TR-ND.

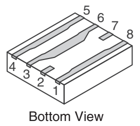
Bottom View

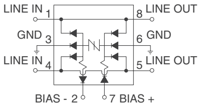

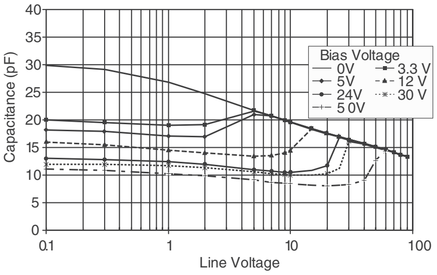

Subscriber Line Interface Circuit Protection (SLIC)

SLIC protectors provide circuit protection to Subscriber Line Interface Circuits, helping to protect from damaging transient voltage activity such as lightning and power cross conditions. These SLIC devices are very compact and provide the right protection to meet various telecom regulatory requirements.

Surge Rating (Series)	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
A2	150	150	90	50	45	20	500
C	500	400	200	150	100	50	500

Fig. 1 — DO-214AA

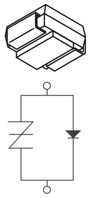

Fig. 2 — Modified DO-214AA

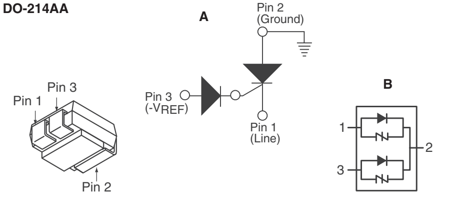

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	V_F (V)	I_{DRM} (µA)	I_{GT} (mA)	I_S (mA)	I_T (A)	I_H (mA)	C_O (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Fixed Voltage SLIC Protection																				
1	DO-214AA	A2	58	77	4	5	5	—	800	1	120	70	P0641SALRPCT-ND	1.47	1.25	1.07	.89	P0641SALRPTR-ND	2,500	642.26/M
	DO-214AA	C	95	130	4	5	5	—	800	1	120	50	P1101SCLRPCT-ND	1.81	1.54	1.32	1.09	P1101SCLRPTR-ND	2,500	792.76/M
SLIC Battrax® Protection																				
2A	Modified DO-214AA	A2	[-VREF]+[-1.2V]	[-VREF]+[-10V]	4	—	5	100	—	2.2	200	50	B1200CALRPCT-ND	1.94	1.71	1.46	1.20	B1200CALRPTR-ND	2,500	828.80/M
TwinSLIC™ Protection																				
2B	Modified DO-214AA	A2	95	130	4	5	5	—	800	1	120	25	P1101CA2LRPCT-ND	1.94	1.71	1.45	1.19	P1101CA2LRPTR-ND	2,500	827.20/M

TeleLink® SMD Fuse - 0461 Series

The TeleLink Surface Mount surge resistant time lag fuse has been designed to offer the ultimate in circuit protection while meeting the necessary surge requirements of the telecommunications industry. When used in conjunction with the SIDACtor® they provide a complete regulatory compliant solution for standards such as Telcordia GR-1089-Core, TIA/EIA-968-A, UL60950. **Specifications:** Interrupting Values • Voltage Rating: 600V • Current Rating: 1.25A Surge Ratings: • 100A, 10 x 1000µs and 500A, 2 x 10µs
• Designed specifically for telecommunications equipment

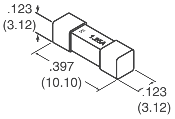

Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500
F1250TRPCT-ND	2.03	1.73	1.48	F1250TRPTR-ND	887.26/M

NTSD1 Series - NTC Thermistors for Temperature Sensing

Features: • Electric insulation on lead wire • Excellent bending resistance and easy handling due to suitable hardness of surface coating • High-accuracy of ±1% of resistance and B-Constant tolerance are realized due to uniform thickness by the precise sheet forming method **Specifications:** • Thermal Time Constant (25°C): 7 seconds • Operating Temperature Range: -40°C ~ 125°C

Resistance 25°C (kΩ) ±1%	B-Constant 25-50°C (k) ±1%	Permissive Operating Current 25°C (mA)	Rated Electric Power 25°C (mW)	Typical Dissipation Constant 25°C (mW/°C)	Dimensions - mm A	B	L	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
2.0	3500	1.05	21	2.1	3.8	2.5	30	490-4651-ND	.56	3.43	25.93	NTSD1XM202FPB30
5.0	3700	0.68	21	2.1	3.0	2.0	30	490-4652-ND	.56	3.43	25.93	NTSD1XR502FPB30
10	3380	0.38	15	1.5	3.0	2.0	30	490-4653-ND	.56	3.43	25.93	NTSD1XH103FPB30
20	4050	0.31	21	2.1	3.8	2.5	30	490-4654-ND	.56	3.43	25.93	NTSD1WB203FPB30
30	4100	0.26	21	2.1	3.8	2.5	30	490-4655-ND	.56	3.43	25.93	NTSD1WC303FPB30
50	4150	0.20	21	2.1	3.0	2.0	30	490-4656-ND	.55	3.35	25.33	NTSD1WD503FPB30
100	4250	0.14	21	2.1	3.0	2.0	30	490-4657-ND	.55	3.35	25.33	NTSD1WF104FPB30
2.0	3500	1.05	21	2.1	3.8	2.5	40	490-4658-ND	.56	3.43	25.93	NTSD1XM202FPB40
5.0	3700	0.68	21	2.1	3.0	2.0	40	490-4659-ND	.56	3.43	25.93	NTSD1XR502FPB40
10	3380	0.38	15	1.5	3.0	2.0	40	490-4660-ND	.56	3.43	25.93	NTSD1XH103FPB40
20	4050	0.31	21	2.1	3.8	2.5	40	490-4661-ND	.56	3.43	25.93	NTSD1WB203FPB40
30	4100	0.26	21	2.1	3.8	2.5	40	490-4662-ND	.56	3.43	25.93	NTSD1WC303FPB40
50	4150	0.20	21	2.1	3.0	2.0	40	490-4663-ND	.56	3.43	25.93	NTSD1WD503FPB40
100	4250	0.14	21	2.1	3.0	2.0	40	490-4664-ND	.56	3.43	25.93	NTSD1WF104FPB40
2.0	3500	1.05	21	2.1	3.8	2.5	50	490-4665-ND	.56	3.43	25.93	NTSD1XM202FPB50
5.0	3700	0.68	21	2.1	3.0	2.0	50	490-4666-ND	.56	3.43	25.93	NTSD1XR502FPB50
10	3380	0.38	15	1.5	3.0	2.0	50	490-4667-ND	.56	3.43	25.93	NTSD1XH103FPB50
20	4050	0.31	21	2.1	3.8	2.5	50	490-4668-ND	.55	3.35	25.33	NTSD1WB203FPB50
30	4100	0.26	21	2.1	3.8	2.5	50	490-4669-ND	.56	3.43	25.93	NTSD1WC303FPB50
50	4150	0.20	21	2.1	3.0	2.0	50	490-4670-ND	.55	3.35	25.33	NTSD1WD503FPB50
100	4250	0.14	21	2.1	3.0	2.0	50	490-4671-ND	.56	3.43	25.93	NTSD1WF104FPB50

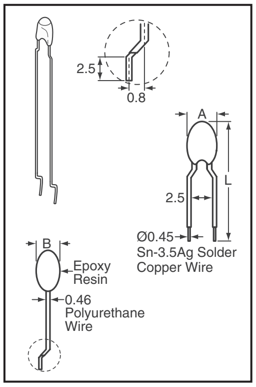

NTPA Series - Inrush Current Limiters

Fig.	Resistance 25°C (Ω) ±15%	Permissible Maximum Current 25°C (A)	Permissible Maximum Current 55°C (A)	Thermal Time Constant 25°C (s)	Thermal Dissipation Constant (mW/°C)	Permissible Electrolytic Capacitor (µF)	Dimensions - mm A	B	C	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
1	3.0	5.4	4.7	135	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3942-ND	1.84	11.34	85.66	NTPAN3R0LDKB0
	4.0	4.7	4.1	130	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3943-ND	1.84	11.34	85.66	NTPAN4R0LDKB0
	6.0	3.9	3.4	130	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3944-ND	1.84	11.34	85.66	NTPAN6R0LDKB0
	4.0	4.0	3.5	125	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3945-ND	1.28	7.87	59.48	NTPAJ4R0LDKB0
	6.0	3.4	2.9	125	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3946-ND	1.28	7.87	59.48	NTPAJ6R0LDKB0
	8.0	3.0	2.6	130	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3947-ND	1.28	7.87	59.48	NTPAJ8R0LDKB0
	10.0	2.6	2.2	130	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3948-ND	1.28	7.87	59.48	NTPAJ100LDKB0
2	3.9	3.3	2.9	65	18.2	2,700 @ 100V	16.0	5.5	7.5	490-3949-ND	.86	5.32	40.17	NTPAD3R9LDNB0
	5.1	3.0	2.6	85	18.8	2,700 @ 100V	16.0	5.5	7.5	490-3950-ND	.86	5.32	40.17	NTPAD5R1LDNB0
	8.0	2.7	2.3	65	18.7	2,700 @ 100V	16.0	5.5	7.5	490-3951-ND	.86	5.32	40.17	NTPAD8R0LDNB0
	16.0	2.0	1.7	100	19.1	2,700 @ 100V	16.0	5.5	7.5	490-3952-ND	.67	4.09	30.91	NTPAD160LDNB0
	2.2	3.7	3.2	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3953-ND	.60	3.67	27.71	NTPAA2R2LDNB0
	3.9	2.7	2.3	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3954-ND	.60	3.67	27.71	NTPAA3R9LDNB0
	5.1	2.5	2.2	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3955-ND	.60	3.67	27.71	NTPAA5R1LDNB0
	8.2	2.0	1.7	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3956-ND	.60	3.67	27.71	NTPAA8R2LDNB0
	10.0	1.7	1.5	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3957-ND	.57	3.51	26.49	NTPAA100LDNB0
3	16.0	1.4	1.2	65	11.6	800 @ 100V	11.0	5.0	5.0	490-3958-ND	.49	2.99	22.61	NTPA9160LBMB0
	4.0	2.3	2.0	40	9.4	700 @ 100V	9.0	5.0	5.0	490-3959-ND	.33	2.00	15.15	NTPA74R0LBMB0
	8.0	1.7	1.5	40	9.5	570 @ 100V	9.0	5.0	5.0	490-3960-ND	.33	2.00	15.15	NTPA78R0LBMB0
	16.0	1.2	1.0	40	9.9	400 @ 100V	9.0	5.0	5.0	490-3961-ND	.33	2.00	15.15	NTPA7160LBMB0
	22.0	1.0	0.88	40	9.1	400 @ 100V	9.0	5.0	5.0	490-3962-ND	.33	2.00	15.15	NTPA7220LBMB0

Fig. 1

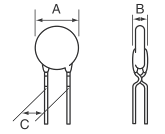

Fig. 2

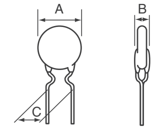

Fig. 3

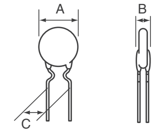

POSISTOR® PTC Thermistors for Heaters

Features:
• The heater element regulates designated temperature range • Output wattage is decreased automatically when heat radiation is decreased • Compact and flat surface shall realize easy to install for various set • Depending on application, these PTC realize dual voltage use

Applications:
• Heated Vessels • Contact Lens Cleaner • Portable Travel Iron • Massager • Fragrance • Electric Pot

Dimensions in mm

Fig. 1

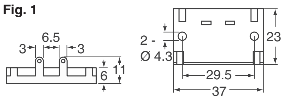

Fig. 2

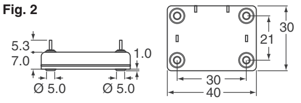

Fig.	Maximum Voltage (Vrms)	Curie Point (°C)	Inrush Current (Maximum)	Minimum Resistance Value @ 25°C (Ω)	Maximum Resistance Value @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	260	90 ±7	5.0A	200	1200	490-4811-ND	10.24	9.20	7.25	PTWSB1BC201T260A00
	260	135 ±7	5.0A	200	1200	490-4812-ND	10.24	9.20	7.25	PTWSB1AS201T260A00
	260	200 ±7	5.0A	200	1200	490-4813-ND	10.24	9.20	7.25	PTWSB2AH201T260A00
	260	225 ±7	5.0A	200	1200	490-4814-ND	10.24	9.20	7.25	PTWSB2AG201T260A00
2	260	280 ±7	10.0A	200	1200	490-4815-ND	17.80	16.00	12.60	PTWTA1AD201T260A00

POSISTOR® Circuit Protection for Overcurrent Protection

Overcurrent Protection device with resettable function suitable for current limiting resistor. This product is chip type PTC thermistor for overcurrent protection. Suitable for counter-measure for short circuit testing in portable equipment and current limiting resistor. **Features:** • Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit • By removing the overcurrent condition, these products automatically return to the initial condition and can be used repeatedly • Stable resistance after operation due to ceramic PTC • 0603 SMD type for reflow soldering • Lead is not contained in the terminations

Part No.	Dimensions (mm) L	W	T	e	a	b	c
PRG18_RB	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.1 ~ 0.6	0.6 ~ 0.8	0.6 ~ 0.7	0.6 ~ 0.8
PRG21_RA	2.0 ±0.2	1.25 ±0.2	0.9 ±0.2	0.2 min.	1.0 ~ 1.2	0.5 ~ 0.7	1.0 ~ 1.2
PRG21_RK	2.0 ±0.2	1.25 ±0.2	1.25 ±0.2	0.2 min.	1.0 ~ 1.2	0.5 ~ 0.7	1.0 ~ 1.2

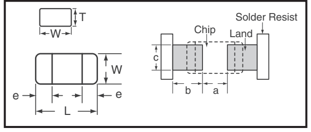

Maximum Voltage (V)	Non-operating Current @ 60°C (mA)	Trip Current @ -10°C (mA)	Max. Current (mA)	Resistance @ 25°C (Ω) ±20%	Curie Point (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
24	7	25	60	470	100	490-2473-1-ND	.41	.36	.29	490-2473-2-ND	4,000	154.00/M	PRG18BB471MB1RB
	10	35	130	220	100	490-2470-1-ND	.41	.36	.29	490-2470-2-ND	4,000	154.00/M	PRG18BB221MB1RB
	15	55	300	100	100	490-2469-1-ND	.41	.36	.29	490-2469-2-ND	4,000	154.00/M	PRG18BB101MB1RB
	20	75	630	47	100	490-2472-1-ND	.41	.36	.29	490-2472-2-ND	4,000	154.00/M	PRG18BB470MB1RB
	25	85	900	33	100	490-2471-1-ND	.41	.36	.29	490-2471-2-ND	4,000	154.00/M	PRG18BB330MB1RB
20	30	110	1,100	22	100	490-3989-1-ND	.67	.57	.50	490-3989-2-ND	3,000	334.00/M	PRG21BB220MB1RK
	40	140	1,600	15	100	490-3990-1-ND	.67	.57	.50	490-3990-2-ND	3,000	334.00/M	PRG21BB150MB1RK
	80	320	3,500	6.8	90	490-4673-1-ND	.71	.63	.50	490-4673-2-ND	4,000	267.00/M	PRG21BC6R8MM1RA
	100	400	5,000	4.7	90	490-4672-1-ND	.71	.63	.50	490-4672-2-ND	4,000	267.00/M	PRG21BC4R7MM1RA
6	500	2,000	10,000	0.2	90	490-3988-1-ND	.71	.63	.50	490-3988-2-ND	4,000	267.00/M	PRG21BC0R2MM1RA

POSISTOR® Circuit Protection for Overheat Sensing Chip Type

This chip PTC Thermistor is reflow soldering SMD type for overheat sensing for power transistors, power diodes and power ICs in hybrid circuits **Features:** • Excellent thermal response because of no coating • Solid-state construction provides excellent mechanical vibration and impact resistance • Contact-less operation provides prolonged service life and noiseless operation • Lead is not contained in the terminations

Dimensions in mm

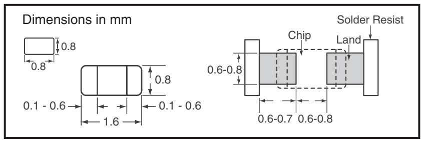

Sensing Temp. @ 4.7kΩ (°C)	Maximum Voltage (V)	Resistance @ 25°C (Ω) ±50%	Curie Point (°C)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
65 ±5	32	470	50	-20 ~ 80	490-2468-1-ND	.41	.36	.29	490-2468-2-ND	154.00/M	PRF18BG471QB1RB
75 ±5	32	470	60	-20 ~ 90	490-2467-1-ND	.41	.36	.29	490-2467-2-ND	154.00/M	PRF18BF471QB1RB
85 ±5	32	470	70	-20 ~ 100	490-2466-1-ND	.41	.36	.29	490-2466-2-ND	154.00/M	PRF18BE471QB1RB
95 ±5	32	470	80	-20 ~ 110	490-2465-1-ND	.41	.36	.29	490-2465-2-ND	154.00/M	PRF18BD471QB1RB
105 ±5	32	470	90	-20 ~ 120	490-2464-1-ND	.41	.36	.29	490-2464-2-ND	154.00/M	PRF18BC471QB1RB
115 ±5	32	470	100	-20 ~ 130	490-2463-1-ND	.41	.36	.29	490-2463-2-ND	154.00/M	PRF18BB471QB1RB
125 ±5	32	470	110	-20 ~ 140	490-2462-1-ND	.41	.36	.29	490-2462-2-ND	154.00/M	PRF18BA471QB1RB
135 ±5	32	470	120	-20 ~ 150	490-2460-1-ND	.41	.36	.29	490-2460-2-ND	154.00/M	PRF18AR471QB1RB
145 ±5	32	470	130	-20 ~ 160	490-2461-1-ND	.38	.34	.27	—	—	PRF18AS471QB1RB
85 ±3	32	470	—	-20 ~ 100	490-4807-1-ND	.43	.38	.30	490-4807-2-ND	161.00/M	PRF18BE471RB1RB
95 ±3	32	470	—	-20 ~ 110	490-4806-1-ND	.44	.39	.31	490-4806-2-ND	165.00/M	PRF18BD471RB1RB
105 ±3	32	470	—	-20 ~ 120	490-4805-1-ND	.47	.42	.33	490-4805-2-ND	176.00/M	PRF18BC471RB1RB
115 ±3	32	470	—	-20 ~ 130	490-4804-1-ND	.44	.39	.31	490-4804-2-ND	165.00/M	PRF18BB471RB1RB

POSISTOR® Narrow Current Band – PTC Thermistors

For Overcurrent Protection

Dimensions in mm

Fig. 1

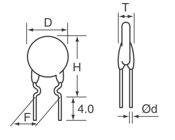

Fig. 2

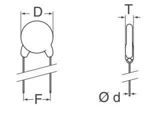

Fig. 3

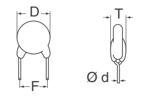

This product is leaded type PTC thermistor for overcurrent protection which is suitable for the current limiting resistor.
Features: • Small fluctuation in the circuit due to resistance tolerance ±10% • Narrow current range between operating and non-operating current at -10°C ~ 60°C • Quick operating time due to small size compared with conventional products • Best suited to meet the requirements for power supply and motor protector • Circuit is protected until current is turned off

Fig.	Max. Voltage (V)	Non-Operating Current @ 60°C (mA)	Trip Current @ -10°C (mA)	Max. Current (A)	Resistance @ 25°C (Ω) ± %	Curie Point (°C)	Body Diameter Dim. D (mm)	Thickness Dim. T (mm)	Height Dim. H (mm)	Lead Space Dim. F (mm)	Lead Diameter (phi d) (mm)	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	30	122	240	1.5	10 ±10	130	4.5	3.5	9.5	5.0	0.5	490-3963-ND	.69	.63	.50	PTGL04AS100K2N51B0
	30	167	330	2.0	10 ±10	130	4.5	3.5	9.5	5.0	0.6	490-3964-ND	.70	.63	.50	PTGL04AS100K2B51B0
	30	269	530	3.5	3.9 ±10	130	5.5	3.5	10.5	5.0	0.6	490-3965-ND	.56	.51	.40	PTGL05AS3R9K2B51B0
	30	336	663	4.5	2.7 ±10	130	7.3	3.5	12.3	5.0	0.6	490-3966-ND	.61	.55	.43	PTGL07AS2R7K2B51B0
	30	420	829	5.0	1.8 ±10	130	7.3	3.5	12.3	5.0	0.6	490-3967-ND	.89	.81	.64	PTGL07AS1R8K2B51B0
	30	556	1097	6.0	1.2 ±10	130	9.3	3.5	14.3	5.0	0.6	490-3968-ND	1.21	1.09	.86	PTGL09AS1R2K2B51B0
	30	685	1352	7.0	0.8 ±10	130	11.5	3.5	16.5	5.0	0.6	490-3969-ND	1.92	1.73	1.36	PTGL12AS0R8K2B51B0
	51	168	332	1.0	10 ±10	130	4.5	4.5	9.5	5.0	0.6	490-3970-ND	.70	.63	.50	PTGL04AS100K3B51B0
	51	197	388	1.5	6.8 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3971-ND	.58	.53	.42	PTGL05AS6R8K3B51B0
	51	307	606	3.0	3.3 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3972-ND	.61	.55	.43	PTGL07AS3R3K3B51B0
	51	412	814	4.0	2.2 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3973-ND	1.19	1.07	.85	PTGL09AS2R2K3B51B0
	51	592	1168	5.0	1.2 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3974-ND	1.91	1.72	1.36	PTGL12AS1R2K3B51B0
	60	88	175	1.0	22 ±10	130	4.5	4.5	9.5	5.0	0.5	490-3975-ND	.76	.68	.54	PTGL04AS220K4N51B0
	60	115	226	1.0	22 ±10	130	4.5	4.5	9.5	5.0	0.6	490-3976-ND	.75	.68	.54	PTGL04AS220K4B51B0
	60	170	335	1.5	10 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3977-ND	.82	.74	.58	PTGL05AS100K4B51B0
	60	186	368	2.2	5.6 ±10	130	7.3	7.3	12.3	5.0	0.5	490-3978-ND	.61	.55	.43	PTGL07AS5R6K4N51B0
	60	229	452	3.0	5.6 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3979-ND	.67	.61	.48	PTGL07AS5R6K4B51B0
	60	333	656	4.0	3.3 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3980-ND	.99	.89	.71	PTGL09AS3R3K4B51B0
	60	439	867	5.0	2.2 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3981-ND	1.90	1.71	1.35	PTGL12AS2R2K4B51B0
	140	74	147	0.5	56 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3982-ND	.52	.47	.38	PTGL04AS560K6B51B0
	140	106	209	1.0	27 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3983-ND	.85	.77	.61	PTGL05AS270K6B51B0
	140	148	292	1.5	15 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3984-ND	1.07	.96	.76	PTGL07AS150K6B51B0
	140	192	380	2.0	12 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3985-ND	1.50	1.35	1.06	PTGL09AS120K6B51B0
	140	227	447	2.2	7.6 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3986-ND	1.23	1.11	.87	PTGL09AS7R6K6B51B0
	140	310	613	3.5	4.7 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3987-ND	1.26	1.14	.90	PTGL12AS4R7K6B51B0
2	250	90	300	0.5	22 ±30	—	8.0	6.0	—	5.0	0.6	490-4808-1-ND†	.68	.60	.47	PTGL07BB220N0B52A0
	250	90	300	0.5	22 ±30	—	8.0	6.0	—	5.0	0.6	490-4808-3-ND‡		255.00/1,000		PTGL07BB220N0B52A0
	250	100	280	0.6	39 ±30	—	10.0	6.0	—	5.0	0.6	490-4809-1-ND†	.89	.78	.61	PTGL09AR390N0B52A0
	250	100	280	0.6	39 ±30	—	10.0	6.0	—	5.0	0.6	490-4809-3-ND‡		332.00/1,000		PTGL09AR390N0B52A0
3	265	118	330	1.0	25 ±25	—	10.0	6.0	—	5.0	0.6	490-4810-ND	1.19	1.07	.85	PTGL09AR250H8B52B0

† Cut Tape ‡ Tape and Box

Honeywell
Sensing and Control

Inrush Current Limiters

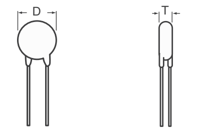

Honeywell ICL Inrush Current Limiters are a cost-effective way of limiting the inrush of current that can damage components in a switching power supply and other power devices when the equipment is turned on.

Features: • PC board mountable • Rugged design • Solderable leads • High quality • Low cost **Specifications:** • Operating Temperature -40°C ~ 185°C • Lead Construction: Straight tinned copper (kinked available)

Resistance @ 25°C (Ω)	Max. Steady State Current (A)	Resistance @ Steady State Current (Ω)	Max. Coated Diameter Dim. D (mm)	Max. Coated Thickness Dim. T (mm)	Lead Diameter (mm)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
0.5	30	0.01	32	8	1	480-3176-ND	6.70	4.90	4.59	ICL320R030-01
1	30	0.02	32	6	1	480-3177-ND	6.43	4.40	3.96	ICL321R030-01
2.5	8	0.06	22	6	1	480-3175-ND	5.83	3.99	3.59	ICL222R508-01
5	6	0.1	15	6	0.8	480-3172-ND	3.49	2.39	2.15	ICL155R006-01
5	7	0.07	15	6	0.8	480-3173-ND	5.49	3.76	3.39	ICL155R007-01
10	8	0.1	22	6	1	480-3174-ND	5.83	3.99	3.59	ICL2210008-01
16	4	0.27	15	6	0.8	480-3171-ND	5.23	3.58	3.23	ICL1516004-01
50	2	0.72	11.5	5	0.8	480-3170-ND	4.35	2.98	2.68	ICL1250002-01

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PTC Thermistors —
PTO, YM120, YQS and YS Series

PTC (Positive Temperature Coefficient) Thermistors are thermally sensitive resistors made of polycrystalline ceramic materials. They are characterized by an extremely large resistance change in a small temperature span.

- All PTC resistances ±30% at 25°C
- Tolerance on transition temperature is ±7°C

YM120 Series: This range of PTC thermistors is designed to operate at main voltages and is intended for general purpose usage in over-current, over-voltage and direct over-temperature protection.
Each device in the range consists of a disc of barium titanate thermistor material with silvered faces and solder coated copper lead wires. A painted finish is applied which is not intended to confer insulating properties.

Fig. 1

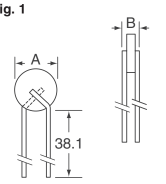

Fig. 2

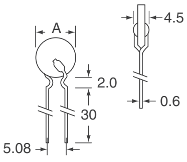

Fig. 3 ***NEW!***

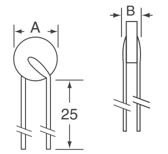

Fig. 4 ***NEW!***

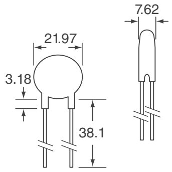

Fig. 5 ***NEW!***

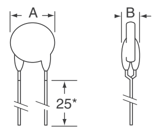

*38.1mm for part number 235-1249-ND

Fig. 6 ***NEW!***

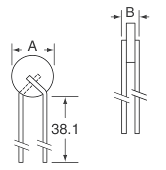

Fig.	Resistance @ 25°C (Ω)	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	GE Sensing Part No.
PTO Series								
1	2	15.24	4.06	235-1130-ND	4.62	4.16	3.28	RL5305-2-120-12-PTO
	5	15.24	4.57	235-1133-ND	4.62	4.16	3.28	RL5506-5-65-50-PTO
	10	8.89	3.81	235-1131-ND	2.26	2.04	1.61	RL3005-10-110-12-PTO
	10	20.32	5.84	235-1137-ND◆	5.51	4.96	3.91	RL7510-10-120-120-PTO
	25	8.89	3.81	235-1132-ND◆	2.26	2.04	1.61	RL3005-25-110-12-PTO
	25	15.24	5.59	235-1139-ND◆	4.31	3.88	3.05	RL5510-25-60-120-PTO
	50	8.89	3.81	235-1121-ND◆‡	2.26	2.04	1.61	RL3006-50-40-25-PTO
	50	8.89	3.81	235-1122-ND◆‡	2.26	2.04	1.61	RL3006-50-50-25-PTO
	50	8.89	3.81	235-1123-ND◆‡	2.26	2.04	1.61	RL3006-50-60-25-PTO
	50	8.89	3.81	235-1124-ND◆	2.26	2.04	1.61	RL3006-50-70-25-PTO
	50	8.89	3.81	235-1125-ND◆	2.26	2.04	1.61	RL3006-50-80-25-PTO
	50	8.89	3.81	235-1126-ND◆	2.26	2.04	1.61	RL3006-50-90-25-PTO
	50	8.89	3.81	235-1127-ND◆‡	2.26	2.04	1.61	RL3006-50-100-25-PTO
	50	8.89	3.81	235-1128-ND◆‡	2.26	2.04	1.61	RL3006-50-110-25-PTO
	50	11.43	5.08	235-1135-ND	3.83	3.45	2.72	RL4010-50-110-50-PTO
	50	12.70	5.08	235-1140-ND◆	3.83	3.45	2.72	RL4510-50-120-120-PTO
	50	15.24	6.86	235-1142-ND	4.73	4.25	3.35	RL5515-50-65-240-PTO
	50	16.51	6.86	235-1143-ND◆	4.73	4.25	3.35	RL6315-50-110-240-PTO
	100	16.51	6.86	235-1144-ND◆	4.73	4.25	3.35	RL6015-100-120-240-PTO
	200	10.16	5.84	235-1136-ND	3.04	2.74	2.16	RL3312-200-110-50-PTO
	1,000	19.05	8.13	235-1146-ND	5.51	4.96	3.91	RL7020-1K-100-480-PTO
	1,500	8.89	7.87	235-1145-ND◆	3.08	2.74	2.16	RL3020-1500-100-240-PTO
	2,000	13.97	8.13	235-1147-ND	4.62	4.16	3.28	RL5020-2K-100-480-PTO
	5,000	8.89	7.87	235-1148-ND◆	3.04	2.74	2.16	RL3020-5K-100-480-PTO
YM120 Series — RoHS Compliant								
2	6	17.5	—	235-1085-ND	6.64	5.81	4.51	YM120D480N060
	10	14.5	—	235-1084-ND	5.40	4.73	3.67	YM120D370N100
	15	11.5	—	235-1240-ND ***NEW!***	3.72	3.26	2.53	YM120D260N150I
	15	11.5	—	235-1083-ND	3.73	3.27	2.54	YM120D260N150
	20	9.5	—	235-1082-ND	2.68	2.35	1.83	YM120D200N200
	33	7.5	—	235-1080-ND	2.68	2.35	1.83	YM120D150N330
	45	7.0	—	235-1079-ND	1.88	1.65	1.28	YM120D125N450
	150	4.0	—	235-1076-ND	3.12	2.73	2.12	YM120C60N151
	600	4.0	—	235-1074-ND	3.12	2.73	2.12	YM120C30N601
	1200	4.0	—	235-1073-ND	3.12	2.73	2.12	YM120C20N122
	1800	4.0	—	235-1072-ND	3.12	2.73	2.12	YM120C15N182
NEW! YQS Series — RoHS Compliant NEW!								
3	5,000	8.89	7.62	235-1244-ND	3.04	2.74	2.16	YQS5934PTO
	25	8.89	3.81	235-1243-ND	2.26	2.04	1.61	YQS5898PTO
	50	8.89	3.81	235-1241-ND	2.26	2.04	1.61	YQS5749PTO
	50	8.89	3.80	235-1242-ND	2.26	2.04	1.61	YQS5751PTO
	100	10.7	5.1	235-1247-ND	2.64	2.37	1.87	YQS5856PTF
4	10	—	—	235-1245-ND	5.51	4.96	3.91	YQS6000
5	20	9.5	4.5	235-1249-ND*	3.92	3.52	2.78	YQS8065
	20	6.0	4.5	235-1250-ND	2.72	2.45	1.93	YQS8067
	100	5.5	5.0	235-1251-ND	2.72	2.45	1.93	YQS8068
	120	6.5	5.0	235-1253-ND	4.55	4.10	3.23	YQS8121
	300	4.0	5.0	235-1252-ND	4.55	4.10	3.23	YQS8069
NEW! YS Series — RoHS Compliant NEW!								
6	10	14.48	4.06	235-1246-ND	4.62	4.16	3.28	YS5677
	50	16.5	6.9	235-1248-ND	4.72	4.25	3.35	YS5876PTF

◆ ***RoHS Compliant***

‡ **KCPTC1-KIT-ND** ***Digi-Key® PTC Thermistors Kits***
2 each of all values denoted (12 total pieces). Notebook style storage case and bin storage guide included.......... **$24.18**

Inrush Current Limiters — CL Series

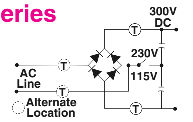

Specifications: • Inrush Current Limiters protect against high peak inrush current, especially in AC/DC switching power supplies • All resistances ±25% @ 25°C • All parts insulated with a protective coating

Resistance under load is for reference only. Actual values may vary due to ambient temperature, air flow, or mounting conditions.

Resistance @ 25°C ±25% (Ω)	Max.† Steady State Current (Amps)	Approx. Res. @ I Max. (Ω)	Diameter (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	GE Sensing Part No.
0.7	12.0	0.02	19.56	KC022L-ND◆	5.05	4.54	3.58	CL-11
1.3	8.0	0.04	13.97	KC023L-ND◆	3.30	2.97	2.34	CL-21
2.5	8.0	0.06	19.56	KC003L-ND◆	2.78	2.50	1.97	CL-30
5.0	6.0	0.11	19.56	KC004L-ND◆	2.78	2.50	1.97	CL-40
7.0	5.0	0.16	19.56	KC005L-ND◆	2.78	2.50	1.97	CL-50
10.0	5.0	0.18	19.56	KC006L-ND◆	2.78	2.50	1.97	CL-60
16.0	4.0	0.27	19.56	KC007L-ND◆	2.78	2.50	1.97	CL-70
47.0	3.0	0.49	19.56	KC008L-ND◆	2.78	2.50	1.97	CL-80
120.0	2.0	1.18	23.62	KC009L-ND◆	3.23	2.91	2.29	CL-90
0.5	16.0	0.02	23.62	KC024L-ND◆	6.44	5.79	4.56	CL-101
10.0	3.2	0.18	10.16	KC011L-ND	2.44	2.20	1.73	CL-110
10.0	1.7	0.34	10.16	KC012L-ND	2.44	2.20	1.73	CL-120
50.0	1.6	0.75	11.43	KC013L-ND◆	2.44	2.20	1.73	CL-130
50.0	1.1	0.89	11.43	KC014L-ND◆	2.44	2.20	1.73	CL-140
5.0	4.7	0.11	13.97	KC015L-ND◆	2.50	2.25	1.77	CL-150
5.0	2.8	0.20	13.97	KC016L-ND◆	2.50	2.25	1.77	CL-160
16.0	2.7	0.33	13.97	KC017L-ND◆	2.50	2.25	1.77	CL-170
16.0	1.7	0.49	13.97	KC018L-ND◆	2.50	2.25	1.77	CL-180
25.0	2.4	0.41	13.97	KC019L-ND◆	2.50	2.25	1.77	CL-190
25.0	1.7	0.49	13.97	KC020L-ND◆	2.50	2.25	1.77	CL-200
30.0	1.5	0.60	10.16	KC021L-ND◆	2.44	2.20	1.73	CL-210

◆ ***RoHS Compliant*** † These values are suggested maximums based upon 25°C ambient, no air flow environment with the thermistor mounted 1/2" from circuit board.

PTC Resettable Fuses — PTF Series

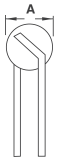

- Telephone line fault protection
- Over-current protection for transformers
- Locked rotor protection for FHP motors

Minimum Limit Current: The minimum amount of current required by the PTC to guarantee switching at the minimum ambient temperatures.

Maximum Limit Current: The maximum amount of current the PTC must be able to pass without switching at the maximum ambient temperature.

Oper. Volt.	R25°C (±20%)	Dim. A (mm)	Switch Current (Min.) 0°C	Switch Current (Min.) 25°C	No-Switch Current (Max.) 25°C	No-Switch Current (Max.) 55°C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	GE Sensing Part No.
12	2.5	15.2	0.92	0.82	0.55	0.40	235-1160-ND	3.16	2.85	2.24	RL5305-2.5-110-12-PTF
	5	11.4	0.55	0.49	0.33	0.24	235-1150-ND◆	2.75	2.48	1.95	RL4005-5-110-12-PTF
	10	8.9	0.32	0.29	0.19	0.14	235-1151-ND◆	2.35	2.11	1.67	RL3005-10-110-12-PTF
	25	8.9	0.20	0.18	0.12	0.09	235-1159-ND	2.35	2.11	1.67	RL3005-25-110-12-PTF
25	1.5	19.1	1.34	1.19	0.81	0.59	235-1161-ND◆	5.75	5.17	4.07	RL7008-1.5-110-25-PTF
	3.0	14.0	0.84	0.74	0.50	0.37	235-1162-ND◆	3.52	3.16	2.49	RL5008-3.0-110-25-PTF
50	5.0	15.2	0.65	0.58	0.39	0.29	235-1152-ND◆	3.16	2.85	2.24	RL5506-5-110-50-PTF
	10	11.4	0.39	0.34	0.23	0.17	235-1153-ND◆	3.16	2.85	2.24	RL4006-10-110-50-PTF
	50	11.4	0.19	0.17	0.11	0.08	235-1158-ND	3.16	2.85	2.24	RL4010-50-110-50-PTF
	100	10.7	0.13	0.12	0.08	0.06	235-1154-ND◆	2.63	2.37	1.87	RL3810-100-110-50-PTF
120	50	12.7	0.19	0.17	0.11	0.08	235-1156-ND◆	3.52	3.16	2.49	RL4510-50-110-120-PTF
	100	10.2	0.13	0.11	0.08	0.06	235-1157-ND	2.63	2.37	1.87	RL3510-100-110-120-PTF
240	100	16.5	0.16	0.15	0.10	0.07	235-1166-ND◆	5.75	5.17	4.07	RL6315-100-110-240-PTF
	250	16.5	0.10	0.09	0.06	0.05	235-1167-ND◆	5.75	5.17	4.07	RL6315-250-110-240-PTF

◆ ***RoHS Compliant***

VISHAY BCcomponents

Surface Mount PTC Thermistors

For Overload Protection

The component consists of a high-performance PTC ceramic disc mounted in a lead-frame, for direct soldering onto a printed-circuit board (PCB) or substrate. The ceramic is soldered to the lead-frame by a local reflow process, during which the solder layer is melted to the metallized ceramic surface using a low residue flux.

Features: • Ideal for pick-and-place circuit assembly • Low mounting height • Suitable for reflow soldering • Small ceramic diameter for faster response • Low heat transfer to substrate • Flat terminations for stable positioning and good solderability

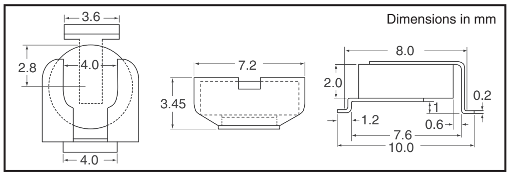
Dimensions in mm

Res. @ 25°C (Ω)	Voltage Maximum (V)	Int @ 25°C	Int @ 70°C	It @ 25°C	Ceramic Size Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Vishay Part No.
Telecommunication Type										
10	245	165	100	270	0.25 (6.5)	BC1568CT-ND	1.01	.69	.65	2322 661 97016
17.5	300	150	100	250	0.25 (6.5)	BC1561CT-ND	1.01	.69	.65	2322 661 97003
20	300	120	70	250	0.25 (6.5)	BC1569CT-ND	1.01	.69	.65	2322 661 97018
25	265	120	70	220	0.25 (6.5)	BC1563CT-ND	1.21	.83	.78	2322 661 97005
35	425	110	70	175	0.25 (6.5)	BC1564CT-ND	1.01	.69	.65	2322 661 97009
40	265	80	50	130	0.25 (6.5)	BC1560CT-ND	1.01	.69	.65	2322 661 97002
General Industrial Type										
3.3	24	400	—	650	0.25 (6.5)	BC1567CT-ND	1.01	.69	.65	2322 661 97013
9.4	60	150	100	300	0.25 (6.5)	BC1565CT-ND	1.01	.69	.65	2322 661 97011

Leaded PTC Thermistors

For Overload Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for overload protection.
Features: • Switch Temperature: Ts = 140°C, (Series 2322 660 5: Ts = 120°C) • Small ratio between trip and non-trip currents • High maximum inrush current • Excellent long term behavior, also in humidity • UL approved PTCs are guaranteed to withstand severe test programs • UL file E148885 according to XGPU2 standard UL1434

Res. @ 25°C ±20% (Ω)	Int Max. @ 25°C (mA)	It Min. @ 25°C (mA)	Voltage Max. (V)	Typical øD (mm)	Dimensions - mm Maximum D	T	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
0.9	920	1380	30	12	12.5	4.0	BC2323-ND◆	.99	.67	.64	PTCCL13H921DBE
50	94	145	60	4.5	5.0	4.0	BC2319-ND◆	.63	.43	.41	PTCCL05H940EBE
3.8	450	675	145	12	12.5	5.0	BC2322-ND◆	.94	.64	.60	PTCCL13H451FBE
48	110	165	265	6.5	7.0	5.5	BC2321-ND◆	.72	.49	.47	PTCCL07H111HBE
56	95	143	265	4.5	5.0	5.5	BC2320-ND◆	.40	.27	.26	PTCCL05H950HBE
120	63	95	265	4.5	5.0	5.5	BC2318-ND◆	.63	.43	.41	PTCCL05H630HBE
500	28	42	265	4.5	5.0	5.5	BC2316-ND◆	.58	.40	.38	PTCCL05H280HBE
1200	19	29	265	4.5	5.0	5.5	BC2315-ND◆	.63	.43	.41	PTCCL05H190HBE

◆ ***RoHS Compliant***

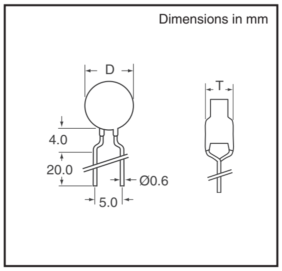
Dimensions in mm

VISHAY Dale

Surface Mount Linear PTC Chip Thermistors – TFPT Series

Features: • Solderable wraparound terminations • Alumina substrate base with PTC thin film element • 0603, 0805 and 1206 sizes available **Specifications:** • TCR at 25°C: 4110 ppm/K • TCR Tolerance: ±400 ppm/K • Operation Temperature Range: -55°C ~ 125°C • Short Time Overload: 2.5 x Maximum Working Voltage for 5 seconds

RoHS COMPLIANT

Digi-Reel®

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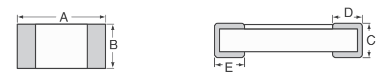

Case Size	Dimensions - mm A	B	C	D	E
0603	1.60 ±0.10	0.85 ±0.10	0.45 ±0.10	0.30 ±0.20	0.30 ±0.20
0805	2.00 ±0.15	1.25 ±0.15	0.45 ±0.10	0.40 ±0.20	0.40 ±0.20
1206	3.20 ±0.15	1.60 ±0.15	0.55 ±0.10	0.50 ±0.25	0.50 ±0.25

Case Size	Resistance Values (Ω)	Tolerance	Maximum Working Voltage (VDC)†	Power Rating (mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Dale Part No.
0603	100	±5%	30	75	541-1164-1-ND	1.80	1.58	1.24	541-1164-2-ND	653.00	TFPT0603L1000JV
	1K	±0.5%	30	75	541-1165-1-ND	2.40	2.10	1.65	541-1165-2-ND	870.00	TFPT0603L1001DV
	1K	±1%	30	75	541-1166-1-ND	2.00	1.75	1.38	541-1166-2-ND	725.00	TFPT0603L1001FV
	1K	±5%	30	75	541-1198-1-ND	1.80	1.58	1.24	541-1198-2-ND	653.00	TFPT0603L1001JV
	150	±1%	30	75	541-1167-1-ND	2.00	1.75	1.38	541-1167-2-ND	725.00	TFPT0603L1500FV
	220	±1%	30	75	541-1168-1-ND	2.00	1.75	1.38	541-1168-2-ND	725.00	TFPT0603L2200FV
	330	±1%	30	75	541-1169-1-ND	2.00	1.75	1.38	541-1169-2-ND	725.00	TFPT0603L3300FV
	390	±5%	30	75	541-1170-1-ND	1.80	1.58	1.24	541-1170-2-ND	653.00	TFPT0603L3900JV
	470	±1%	30	75	541-1171-1-ND	2.00	1.75	1.38	541-1171-2-ND	725.00	TFPT0603L4700FV
	820	±1%	30	75	541-1199-1-ND	2.00	1.75	1.38	—	—	TFPT0603L8200FV
0805	100	±5%	40	100	541-1200-1-ND	1.40	1.23	.96	541-1200-2-ND	508.00	TFPT0805L1000JV
	1K	±1%	40	100	541-1172-1-ND	2.00	1.75	1.38	541-1172-2-ND	725.00	TFPT0805L1001FV
	1K	±5%	40	100	541-1173-1-ND	1.80	1.58	1.24	541-1173-2-ND	653.00	TFPT0805L1001JV
	1.2K	±1%	40	100	541-1174-1-ND	2.00	1.75	1.38	541-1174-2-ND	725.00	TFPT0805L1201FV
	1.5K	±1%	40	100	541-1175-1-ND	2.00	1.75	1.38	541-1175-2-ND	725.00	TFPT0805L1501FV
	1.8K	±1%	40	100	541-1176-1-ND	2.00	1.75	1.38	—	—	TFPT0805L1801FV
	1.8K	±5%	40	100	541-1177-1-ND	1.80	1.58	1.24	—	—	TFPT0805L1801JV
	2.2K	±1%	40	100	541-1178-1-ND	2.00	1.75	1.38	—	—	TFPT0805L2201FV
	2.2K	±5%	40	100	541-1179-1-ND	1.80	1.58	1.24	—	—	TFPT0805L2201JV
	2.7K	±1%	40	100	541-1180-1-ND	2.00	1.75	1.38	541-1180-2-ND	725.00	TFPT0805L2701FV
	3.3K	±1%	40	100	541-1181-1-ND	2.00	1.75	1.38	541-1181-2-ND	725.00	TFPT0805L3301FV
	3.3K	±5%	40	100	541-1182-1-ND	1.80	1.58	1.24	—	—	TFPT0805L3301JV
	3.9K	±1%	40	100	541-1183-1-ND	2.00	1.75	1.38	541-1183-2-ND	725.00	TFPT0805L3901FV
	3.9K	±5%	40	100	541-1184-1-ND	1.80	1.58	1.24	—	—	TFPT0805L3901JV
	470	±1%	40	100	541-1185-1-ND	2.00	1.75	1.38	541-1185-2-ND	725.00	TFPT0805L4700FV
	4.7K	±1%	40	100	541-1186-1-ND	2.00	1.75	1.38	541-1186-2-ND	725.00	TFPT0805L4701FV
	4.7K	±5%	40	100	541-1187-1-ND	1.80	1.58	1.24	541-1187-2-ND	653.00	TFPT0805L4701JV
	5K	±1%	40	100	541-1201-1-ND	2.00	1.75	1.38	541-1201-2-ND	725.00	TFPT0805L5001FV
	5K	±5%	40	100	541-1202-1-ND	1.80	1.58	1.24	541-1202-2-ND	653.00	TFPT0805L5001JV
	680	±5%	40	100	541-1188-1-ND	1.80	1.58	1.24	—	—	TFPT0805L6800JV
1206	10K	±1%	50	125	541-1189-1-ND	2.00	1.75	1.38	541-1189-2-ND	725.00	TFPT1206L1002FV
	10K	±5%	50	125	541-1190-1-ND	1.80	1.58	1.24	541-1190-2-ND	653.00	TFPT1206L1002JV
	220	±1%	50	125	541-1191-1-ND	2.00	1.75	1.38	541-1191-2-ND	725.00	TFPT1206L2200FV
	2.2K	±5%	50	125	541-1192-1-ND	1.80	1.58	1.24	541-1192-2-ND	653.00	TFPT1206L2201JV
	3.9K	±5%	50	125	541-1193-1-ND	1.80	1.58	1.24	541-1193-2-ND	653.00	TFPT1206L3901JV
	4.7K	±1%	50	125	541-1194-1-ND	2.00	1.75	1.38	—	—	TFPT1206L4701FV
	5.6K	±5%	50	125	541-1195-1-ND	1.80	1.58	1.24	541-1195-2-ND	653.00	TFPT1206L5601JV
	6.8K	±1%	50	125	541-1196-1-ND	2.00	1.75	1.38	541-1196-2-ND	725.00	TFPT1206L6801FV
	6.8K	±5%	50	125	541-1197-1-ND	1.80	1.58	1.24	541-1197-2-ND	653.00	TFPT1206L6801JV

† Rated continuous Working Voltage is maximum working voltage or square root of the power rating times resistance value, whichever is less.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

VISHAY. BCcomponents

Leaded PTC Thermistors –
Overload Protection for Telecommunication

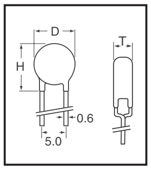

Advanced developments in telephone equipment in recent years have radically altered the protection requirements for both exchange and subscriber equipment. The range of Positive Temperature Coefficient (PTC) thermistors includes devices specially designed to provide overcurrent protection.
Features: • Fast protection against power contact faults • Withstand high overload currents of up to 10A • High voltage withstanding capabilities for the larger sized thermistors • Good tracking over a wide temperature range for all matched or binned types • Excellent stability over extended time • All telecom PTCs are coated with a high temperature silicon lacquer (UL94V0) to protect them from any harsh environments and to improve their lifetime

Resistance @ 25°C (Ω)	Voltage Maximum (V)	Non-Trip Current Int (mA)	Trip Current Int (mA)	Dimensions - mm Maximum			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,500	Vishay Part No.
				D	T	H		1	10	50			
25	220	70	200	8.5	5.0	11.5	BC1554CT-ND	.74	.51	.48	BC1554TR-ND	445.50/M	2322 661 93048

EPCOS

PTC Thermistors – For Capacitor Charging

Features: • Self-protecting in case of malfunction of short-circuit relay or internal short-circuit of capacitor • Encased thermistor disk with clamp contacts • For high pulse currents and high number of operating cycles • Flame-retardant plastic case • Case material UL-listed • Sn-plated lead-free solder pins

Applications: • In-rush current limiter (charging resistor) for smoothing and DC link capacitors • To replace high-power fixed resistors for capacitor charging

Dimensions in mm

Fig.	Vmax (VDC)	Rated Resistance (Ω)	Maximum Pulse Current (A)	Breakdown Voltage (V)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
1	360	22	—	—	495-4087-ND	3.96	28.32	226.56	B59105J0130A020
	800	100	—	—	495-4089-ND	3.96	28.32	226.56	B59109J0130A020
2	550	20	50	>700	495-3449-ND	3.50	25.00	200.00	B59201J0140B010
	650	56	25	>700	495-3450-ND	3.41	24.34	194.72	B59202J0135B010
	800	100	20	>900	495-3451-ND	3.41	24.34	194.72	B59204J0130B010

Fig. 1

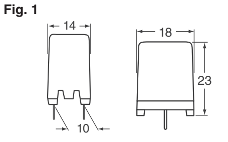

Fig. 2

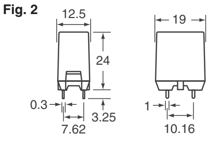

Surface Mount PTC Thermistors – For Temperature Protection

Features:
• Thermistor chip with lead-free tinned terminations • Small size • Fast and reliable response • Suitable for reflow soldering
Applications:
• DC/DC converters • Home appliances • Dimmers • Electronic ballasts • Temperature management in automotive electronics • Over temperature protection of power transistors and power IC's (e.g. in battery pack, notebook) • SMPS

Size Code	Dimensions - mm L	W	T
0603	1.6	0.8	0.8
0805	2.0	1.25	0.8

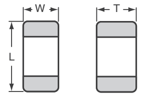

Size Code	Nominal Threshold Temperature (°C)	Rated Resistance (Ω)	Maximum Operating Voltage (VDC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Epcos Part No.
0603	115	470	32	495-2412-1-ND	.68	.60	.47	495-2412-2-ND	247.00/M	B59601A0115A062
	125	470	32	495-2413-1-ND	.70	.62	.49	—	—	B59601A0125A062
0805	70	≤1K	25	495-2415-1-ND	.86	.75	.59	495-2415-2-ND	334.00/M	B59701A0070A062
	90	≤1K	25	495-2608-1-ND	.96	.56	.41	495-2608-2-ND	328.00/M	B59701A0090A062
	100	≤1K	25	495-2609-1-ND	1.04	.60	.44	495-2609-2-ND	328.00/M	B59701A0100A062
	110	≤1K	25	495-2610-1-ND	.96	.56	.41	495-2610-2-ND	328.00/M	B59701A0110A062
	130	≤1K	25	495-2612-1-ND	.96	.56	.41	495-2612-2-ND	328.00/M	B59701A0130A062
NEW! Superior Series NEW!										
0603	85	470	32	495-4303-1-ND	.88	.77	.61	495-4303-2-ND	319.00/M	B59641A0085A062
	95	470	32	495-4304-1-ND	.88	.77	.61	495-4304-2-ND	319.00/M	B59641A0095A062
	105	470	32	495-4305-1-ND	.88	.77	.61	495-4305-2-ND	319.00/M	B59641A0105A062
	115	470	32	495-4306-1-ND	.88	.77	.61	495-4306-2-ND	319.00/M	B59641A0115A062
	125	470	32	495-4307-1-ND	.88	.77	.61	495-4307-2-ND	319.00/M	B59641A0125A062
	135	470	32	495-4308-1-ND	.88	.77	.61	495-4308-2-ND	319.00/M	B59641A0135A062
	145	470	32	495-4309-1-ND	.88	.77	.61	495-4309-2-ND	319.00/M	B59641A0145A062
0805	70	680	32	495-4310-1-ND	1.08	.95	.75	495-4310-2-ND	392.00/M	B59721A0070A062
	80	680	32	495-4311-1-ND	1.08	.95	.75	495-4311-2-ND	392.00/M	B59721A0080A062
	90	680	32	495-4312-1-ND	1.08	.95	.75	495-4312-2-ND	392.00/M	B59721A0090A062
	100	680	32	495-4313-1-ND	1.08	.95	.75	495-4313-2-ND	392.00/M	B59721A0100A062
	110	680	32	495-4314-1-ND	1.08	.95	.75	495-4314-2-ND	392.00/M	B59721A0110A062
	120	680	32	495-4315-1-ND	1.08	.95	.75	495-4315-2-ND	392.00/M	B59721A0120A062
	130	680	32	495-4316-1-ND	1.08	.95	.75	495-4316-2-ND	392.00/M	B59721A0130A062

Surface Mount PTC Thermistors – For Overcurrent Protection

Features: • Suitable for reflow soldering and for automatic placement
Applications: • Overcurrent protection • Short-circuit protection

Dimensions in mm

Fig. 1

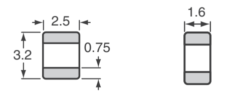

Fig. 2

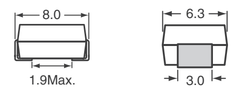

Fig. 3

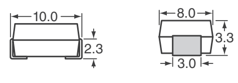

Fig.	Size Code	Rated Resistance (Ω)	Rated Current (mA)	Switch Current (mA)	Maximum Switch Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
1	1210	27	90	180	0.5	495-2416-1-ND	1.36	1.19	.94	495-2416-2-ND	2,000	492.00/M	B59606A0110A062
	1210	55	70	130	0.4	495-2417-1-ND	1.25	1.10	.86	495-2417-2-ND	2,000	452.00/M	B59607A0120A062
	1210	125	50	90	0.3	495-2418-1-ND	1.25	1.10	.86	495-2418-2-ND	2,000	452.00/M	B59707A0120A062
	1210	400	15	40	0.2	495-3878-1-ND	1.49	1.31	1.03	495-3878-2-ND	2,000	539.00/M	B59807A0090A062
2	3225	55	40	85	0.7	495-2419-1-ND	2.10	1.84	1.45	495-2419-2-ND	1,000	762.00	B59115P1080A062
	3225	25	65	135	1.0	495-2421-1-ND	2.10	1.84	1.45	495-2421-2-ND	1,000	762.00	B59215P1080A062
	3225	4.6	165	340	1.0	495-2420-1-ND	2.10	1.84	1.45	495-2420-2-ND	1,000	762.00	B59201P1080A062
3	3225	16	150	310	1.6	495-3877-1-ND	3.14	2.76	2.17	495-3877-2-ND	1,000	1140.00	B59315P1120A062

Leaded PTC Thermistors – For Temperature Protection

Features: • Thermistor pellet with insulating encapsulation • Low-resistance • Steep R/T curve • Silver-plated and insulated AWG 26 litz wires • Extremely fast response due to small dimensions • UL approved to UL 1434 (file number E69802) **Applications:** • Thermal protection of winding in electric motors • Limit temperature monitoring

Dimensions in mm

Nominal Threshold Temperature (°C)	Rated Resistance (Ω)	Maximum Operating Voltage (VDC)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
70	≤100	30	495-2615-ND	4.30	3.08	2.46	B59100M1070A070
120	≤100	30	495-2617-ND	3.99	2.86	2.29	B59100M1120A070
155	≤100	30	495-2618-ND	3.99	2.86	2.29	B59100M1155A070

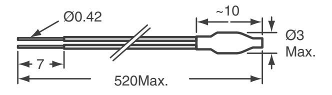

EPCOS

Leaded PTC Thermistors

For Overcurrent Protection

Features:
- Short response times
- UL approval for UL 1434 (file number E69802)
- VDE approval (license number 104843 E)

Applications:
- Overcurrent and short-circuit protection

Dimensions in mm

Fig. 1

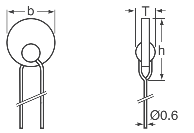

Fig. 2

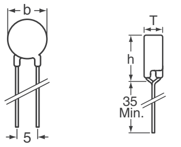

Fig.	Rated Resistance (Ω)	Rated Voltage (V)	Rated Current (mA)	Switch Current (mA)	Maximum Switch Current (A)	Dimensions mm b	T	h	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	25	380	123	245	2.0	12.5	7.0	16.5	495-3879-ND	4.02	2.59	1.99	B59750B0120A070
	50	380	87	173	2.0	12.5	7.0	16.5	495-3880-ND	4.02	2.59	1.99	B59751B0120A070
	70	380	64	127	1.4	8.5	7.0	12.0	495-3886-ND	2.38	1.54	1.18	B59770B0120A070
	80	380	69	137	2.0	12.5	7.0	16.5	495-3881-ND	4.02	2.59	1.99	B59752B0120A070
	120	380	56	112	2.0	12.5	7.0	16.5	495-3882-ND	4.02	2.59	1.99	B59753B0120A070
	150	380	43	86	1.4	8.5	7.0	12.0	495-3888-ND	2.38	1.54	1.18	B59772B0120A070
	150	380	50	100	2.0	12.5	7.0	16.5	495-3883-ND	4.02	2.59	1.99	B59754B0120A070
	500	500	28	55	1.4	12.5	7.0	16.5	495-3884-ND	4.02	2.59	1.99	B59755B0115A070
	500	500	24	48	1.0	8.5	7.0	12.0	495-3889-ND	2.38	1.54	1.18	B59773B0120A070
	1100	500	16	32	1.0	8.5	7.0	12.0	495-3890-ND	2.38	1.54	1.18	B59774B0115A070
	7500	1000	8	17	0.5	12.5	7.0	16.5	495-3885-ND	9.67	6.22	4.79	B59758B0110A070
2	0.8	24	850	1700	5.5	13.5	3.5	17.0	495-3897-ND	2.26	1.46	1.12	B59955C0120A070
	1.2	24	600	1200	4.3	11.0	3.5	14.5	495-3899-ND	1.92	1.24	.95	B59965C0120A070
	1.8	24	450	900	3.0	9.0	3.5	12.5	495-3901-ND	1.64	1.06	.81	B59975C0120A070
	4.6	24	250	500	1.0	6.5	3.5	10.0	495-3904-ND	1.41	.91	.70	B59985C0120A070
	5.6	63	250	500	4.3	11.0	3.5	14.5	495-3898-ND	1.93	1.24	.96	B59960C0120A070
	9.4	63	150	300	3.0	9.0	3.5	12.5	495-3900-ND	1.64	1.06	.81	B59970C0120A070
	10	230	200	400	2.2	13.5	5.0	17.0	495-3891-ND	2.48	1.60	1.23	B59850C0120A070
	13	24	120	240	0.7	4.0	3.5	7.5	495-3907-ND	1.18	.76	.59	B59995C0120A070
	15	230	140	280	1.5	11.0	5.0	14.5	495-3892-ND	2.03	1.31	1.01	B59860C0120A070
	25	63	50	110	1.0	6.5	3.5	10.0	495-3902-ND	1.41	.91	.70	B59980C0080A070
	25	63	85	170	1.0	6.5	3.5	10.0	495-3903-ND	1.41	.91	.70	B59980C0120A070
	25	230	100	200	1.0	9.0	5.0	12.5	495-2613-ND	1.93	1.24	.96	B59870C0120A070
	55	63	30	60	0.7	4.0	3.5	7.5	495-3905-ND	1.18	.76	.59	B59990C0080A070
	55	63	50	100	0.7	4.0	3.5	7.5	495-3906-ND	1.18	.76	.59	B59990C0120A070
	70	230	55	110	0.4	6.5	5.0	10.0	495-2614-1-ND†	2.61	1.51	1.11	B59880C0120A051
	70	230	55	110	0.4	6.5	5.0	10.0	495-2614-2-ND‡		1477.50/1,500		B59880C0120A051
	150	230	30	60	0.2	4.0	5.0	7.5	495-3895-ND	1.42	.91	.70	B59890C0120A070
	1200	500	15	30	0.1	6.5	5.0	10.0	495-3893-ND	1.64	1.06	.81	B59885C0120A070
	1500	500	12	24	0.1	6.5	5.0	10.0	495-3894-ND	1.64	1.06	.81	B59886C0120A070

† Cut Tape ‡ Tape and Reel

Inrush Current Limiters

Features: • Useable in series connections up to 265Vrms • Coated thermistor disk • UL Approval (E69802) **Applications:** • Switch-mode power supplies
Specifications: • Climatic category: 55/170/21 • Tolerance: ±20%

Dimensions in mm

Fig. 1

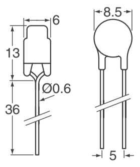

Fig. 2

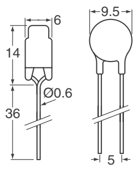

Fig. 3

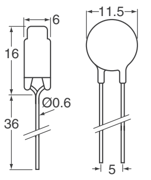

Fig. 4

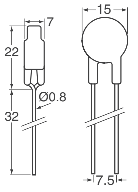

Fig. 5

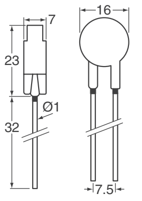

Fig. 6 ***NEW!***

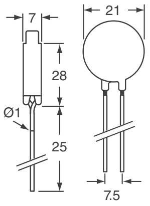

Fig. 7

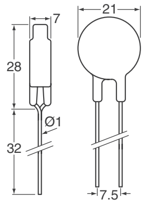

Fig. 8

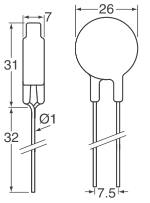

Fig.	Res. @ 25°C (Ω)	Imax (A) 0°C ~ 65°C	B25/100 (K)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
1	4.7	3.0	2800	495-2079-ND	.68	5.92	46.48	B57153S0479M000
	10	2.0	2800	495-2076-ND	.68	5.92	46.48	B57153S0100M000
	15	1.8	2900	495-2077-ND	.68	5.92	46.48	B57153S0150M000
	33	1.3	3000	495-2078-ND	.68	5.92	46.48	B57153S0330M000
2	5	4.2	2800	495-2093-ND	.84	7.37	57.92	B57235S0509M000
	6	4.0	2800	495-3043-ND	.58	5.08	39.88	B57235S0609M000
	8	3.5	2900	495-3044-ND	.84	7.37	57.92	B57235S0809M000
	10	3.0	2900	495-2092-ND	.84	7.37	57.92	B57235S0100M000
3	2.5	5.5	2700	495-3049-ND‡	2.88	25.20	198.00	B57236S0259L002
	5	4.5	2800	495-3051-ND‡	1.22	10.69	84.01	B57236S0509L002
	5	4.5	2800	495-2096-ND	1.14	9.96	78.29	B57236S0509M000
	10	3.5	2900	495-2094-ND	1.14	9.96	78.29	B57236S0100M000
	12	3.2	2900	495-3045-ND	1.14	9.96	78.29	B57236S0120M000
	16	2.9	2965	495-3046-ND	1.14	9.96	78.29	B57236S0160M000
	20	2.8	3065	495-3047-ND	1.14	9.96	78.29	B57236S0200M000
	25	2.5	3065	495-3048-ND	1.14	9.96	78.29	B57236S0250M000
	50	1.9	3165	495-2095-ND	1.14	9.96	78.29	B57236S0500M000
4	1	9.0	2700	495-2098-ND	1.39	12.15	95.45	B57237S0109M000
	2.2	7.0	2800	495-3055-ND	1.39	12.15	95.45	B57237S0229M000
	2.5	6.5	2800	495-3056-ND	1.39	12.15	95.45	B57237S0259M000
	4.7	5.1	2900	495-2099-ND	1.39	12.15	95.45	B57237S0479M000
	5	5.0	2900	495-2100-ND	1.39	12.15	95.45	B57237S0509M000
	10	3.7	3060	495-2097-ND	1.39	12.15	95.45	B57237S0100M000
	15	3.0	3000	495-3053-ND	1.39	12.15	95.45	B57237S0150M000
	22	2.8	3300	495-3054-ND	1.39	12.15	95.45	B57237S0220M000
	33	2.5	3300	495-3057-ND	1.39	12.15	95.45	B57237S0330M000

Fig.	Res. @ 25°C (Ω)	Imax (A) 0°C ~ 65°C	B25/100 (K)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
5	2.5	8.4	2800	495-3062-ND	1.45	12.69	99.74	B57238S0259M000
	4.7	6.6	2965	495-2102-ND	1.45	12.69	99.74	B57238S0479M000
	5	6.4	2965	495-2103-ND	1.45	12.69	99.74	B57238S0509M000
	10	5.0	3065	495-2101-ND	1.45	12.69	99.74	B57238S0100M000
	15	4.4	3165	495-3058-ND	1.45	12.69	99.74	B57238S0150M000
	16	4.0	3165	495-3059-ND	1.68	14.74	115.83	B57238S0160M000
	22	4.0	3265	495-3060-ND	1.45	12.69	99.74	B57238S0220M000
	25	3.4	3265	495-3061-ND	1.68	14.74	115.83	B57238S0250M000
6	1	16.0	2800	495-4157-ND ***NEW!***	3.12	27.30	214.50	B57364S2109A002
	2	12.0	2900	495-4114-ND ***NEW!***	2.96	25.94	203.78	B57364S209M
	2	12.0	2900	495-4159-ND ***NEW!***	3.12	27.30	214.50	B57364S2209A002
	2.5	11.0	2900	495-4158-ND ***NEW!***	3.12	27.30	214.50	B57364S2259A002
	4	9.5	3060	495-4160-ND ***NEW!***	3.12	27.30	214.50	B57364S2409A002
	5	8.5	3060	495-4161-ND ***NEW!***	3.12	27.30	214.50	B57364S2509A002
	10	7.5	3300	495-4162-ND ***NEW!***	3.12	27.30	214.50	B57364S2100A002
7	1	16.0	2800	495-1871-ND	2.96	25.94	203.78	B57364S0109M000
	2.5	11	2900	495-3063-ND	2.96	25.94	203.78	B57364S0259M000
	5	8.5	3060	495-2114-ND	2.96	25.94	203.78	B57364S0509M000
	10	7.5	3300	495-2112-ND	2.96	25.94	203.78	B57364S0100M000
8	1	20.0	2800	495-2123-ND	5.92	51.81	407.06	B57464S0109M000
	2	13.5	2900	495-4112-ND ***NEW!***	5.92	51.81	407.06	B57464S209M000
	5	9.5	3060	495-4113-ND ***NEW!***	5.92	51.81	407.06	B57464S509M000
	10	8.0	3300	495-4111-ND ***NEW!***	5.31	46.45	364.93	B57464S100M000

‡ Tolerance ±15%

AMETHERM
Circuit Protection Thermistors

Inrush Current Limiters

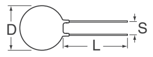

Ametherm's MegaSurge™, Surge Limiter and bigAMP Series of Inrush Current Limiters offer an economical and space saving solution for limiting high inrush currents. Ametherm also offers the highest current rated Thermistors available for Inrush Current Limiting.

Resistance @ 25°C (Ω)	Maximum Steady State Current @ 65°C (Amps)	Maximum Energy (Joules)	Diameter (D) (mm)	Lead Spacing (S) (mm)	Lead Length (L) (mm)	Digi-Key Part No.	Price Each 1	10	100	Ametherm Part No.
10	8	200	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1003-ND◆	3.60	2.95	2.30	MS22 10008
20	5	180	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1007-ND◆	3.60	2.95	2.30	MS22 20005
50	4	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1010-ND◆	3.60	2.95	2.30	MS22 50004
75	4	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1011-ND	3.60	2.95	2.30	MS22 75004
220	3.5	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1008-ND	3.60	2.95	2.30	MS22 22103
.50	40	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1013-ND◆	4.81	3.94	3.07	MS32 0R540
1.0	36	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1016-ND	4.81	3.94	3.07	MS32 1R036
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1019-ND◆	4.81	3.94	3.07	MS32 2R025
5.0	20	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1021-ND◆	4.81	3.94	3.07	MS32 5R020
10	15	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1014-ND◆	4.81	3.94	3.07	MS32 10015
20	8	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1017-ND◆	4.81	3.94	3.07	MS32 20008
20	10	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1018-ND◆	4.81	3.94	3.07	MS32 20010
.50	50	900	35 ±2.5	19 ±3.0	39 ±4.0	570-1023-ND◆	6.82	5.58	4.34	MS35 0R550
1.0	40	800	35 ±2.5	19 ±3.0	39 ±4.0	570-1025-ND◆	6.82	5.58	4.34	MS35 1R040
2.0	35	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1027-ND◆	6.82	5.58	4.34	MS35 2R035
3.0	30	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1028-ND◆	6.82	5.58	4.34	MS35 3R030
5.0	25	600	35 ±2.5	19 ±3.0	39 ±4.0	570-1029-ND◆	6.82	5.58	4.34	MS35 5R025
10	18	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1024-ND◆	6.82	5.58	4.34	MS35 10018
20	10	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1026-ND◆	6.82	5.58	4.34	MS35 20010
10	1	2	3.0 max.	2.5 Nom.	38.0 min.	570-1088-ND◆	.63	.39	.30	SL03 10001
4	3	5	5.6 max.	6.0 Nom.	38.0 min.	570-1085-ND◆	.63	.39	.30	SL05 4R003
5	1	5	5.6 max.	6.0 Nom.	38.0 min.	570-1084-ND◆	.63	.39	.30	SL05 5R001
30	0.25	3	5.5 ±0.5	6.0 Nom.	38.0 min.	570-1086-ND◆	.63	.39	.30	SL05 30001
20	2	8	8 ±0.5	6.4 ±2.0	38 ±3.0	570-1083-ND◆	.63	.39	.30	SL08 20002
2	5	30	10 ±0.5	5.1 Nom.	38 min.	570-1081-ND◆	.72	.45	.34	SL10 2R005
10	3	17	9.5 ±1.0	7.8 ±1.0	38 ±3.0	570-1082-ND◆	.72	.45	.34	SL10 10003
50	1.6	18	10 ±0.5	6.35 ±0.6	9.9 ±0.9	570-1080-ND◆	.72	.45	.34	SL10 50002
1	10	28	12 ±1.0	7.8 ±2.0	38 ±9.0	570-1077-ND◆	.89	.55	.42	SL12 1R010
10	4	40	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1079-ND◆	.89	.55	.42	SL12 10004
10	6	40	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1078-ND◆	.89	.55	.42	SL12 10006
20	3	35	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1076-ND◆	.89	.55	.42	SL12 20003
50	2	20	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1074-ND◆	.89	.55	.42	SL12 50002
2.5	7	80	15 ±0.5	7.8 ±2.0	38 ±9.0	570-1072-ND◆	1.02	.63	.48	SL15 2R507
5	7	50	15 ±0.5	7.8 ±2.0	38 ±9.0	570-1070-ND◆	1.02	.63	.48	SL15 5R007
47	3	50	15 ±0.5	7.8 ±2.0	38 ±9.0	570-1071-ND◆	1.02	.63	.48	SL15 47003
60	2	50	15 ±0.5	7.8 ±0.3	38 ±1.5	570-1069-ND◆	1.02	.63	.48	SL15 60002
.50	16	160	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1030-ND◆	1.68	1.04	.79	SL22 0R516
.70	12	120	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1031-ND◆	1.68	1.04	.79	SL22 0R712
1.0	20	65	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1041-ND◆	1.68	1.04	.79	SL22 1R020
2.0	18	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1044-ND◆	1.68	1.04	.79	SL22 2R018
2.5	8	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1045-ND◆	1.68	1.04	.79	SL22 2R508
2.5	10	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1046-ND◆	1.68	1.04	.79	SL22 2R510
2.5	15	90	20 ±1.0	8.0 ±0.2	38 ±9.0	570-1047-ND◆	1.68	1.04	.79	SL22 2R515
4.0	14	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1050-ND◆	1.68	1.04	.79	SL22 4R014
5.0	6	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1052-ND◆	1.68	1.04	.79	SL22 5R006
5.0	12	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1053-ND◆	1.68	1.04	.79	SL22 5R012
7.0	10	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1055-ND	1.68	1.04	.79	SL22 7R010
10	5	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1032-ND◆	1.68	1.04	.79	SL22 10005
10	8	90	20 ±1.0	7.5 ±0.80	38 ±9.0	570-1034-ND◆	1.68	1.04	.79	SL22 10008
10	9	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1035-ND	1.68	1.04	.79	SL22 10009
14	7	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1039-ND◆	1.68	1.04	.79	SL22 14007
20	7	125	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1042-ND◆	1.68	1.04	.79	SL22 20007
30	5	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1048-ND	1.68	1.04	.79	SL22 30005
40	5	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1049-ND◆	1.68	1.04	.79	SL22 40005
50	4	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1051-ND◆	1.68	1.04	.79	SL22 50004
60	3	72	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1054-ND	1.68	1.04	.79	SL22 60003
120	3	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1037-ND◆	1.68	1.04	.79	SL22 12103
.50	30	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1056-ND◆	2.64	1.62	1.23	SL32 0R530
.50	36	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1057-ND◆	2.64	1.62	1.23	SL32 0R536
1.0	30	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1059-ND◆	2.64	1.62	1.23	SL32 1R030
1.0	36	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1060-ND◆	2.64	1.62	1.23	SL32 1R036
2.0	23	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1061-ND◆	2.64	1.62	1.23	SL32 2R023
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1062-ND◆	2.64	1.62	1.23	SL32 2R025
4.0	23	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1063-ND◆	2.64	1.62	1.23	SL32 4R023
5.0	20	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1064-ND◆	2.59	1.62	1.23	SL32 5R020
10	15	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1058-ND◆	2.64	1.62	1.23	SL32 10015

◆ ***RoHS Compliant***

AVX

Accu-Guard® SMD Thin-Film Fuse

Digi-Reel® RoHS COMPLIANT

The Accu-Guard series of fuses is based on thin-film techniques. This technology provides a level of control on the component electrical and physical characteristics that is generally not possible with standard fuse technologies. This has allowed AVX to offer a series of devices which are designed for modern surface mount circuits which require protection.

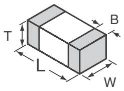

Features:
- Accurate current rating
- Fast-acting

Size	Dimensions - Inches (mm) L	W	T	B
0402E	0.039 ±0.004 (1.00 ±0.10)	0.022 ±0.003 (0.55 ±0.07)	0.016 ±0.004 (0.40 ±0.10)	0.008 ±0.004 (0.20 ±0.10)
0402G	0.039 ±0.002 (1.00 ±0.05)	0.023 ±0.002 (0.58 ±0.04)	0.014 ±0.002 (0.35 ±0.05)	0.008 ±0.002 (0.20 ±0.05)
0603	0.063 ±0.004 (1.60 ±0.10)	0.032 ±0.004 (0.81 ±0.10)	0.025 ±0.004 (0.63 ±0.10)	0.014 ±0.006 (0.35 ±0.15)

Case Size	Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0402E	0.25	478-2852-1-ND	.35	.33	.25	478-2852-2-ND	5,000	135.00/M	F0402E0R25FSTR
	0.50	478-2853-1-ND	.35	.33	.25	478-2853-2-ND	5,000	135.00/M	F0402E0R50FSTR
	0.75	478-2854-1-ND	.35	.33	.25	—	—	—	F0402E0R75FSTR
	1.00	478-2855-1-ND	.35	.33	.25	478-2855-2-ND	5,000	135.00/M	F0402E1R00FSTR
	1.50	478-2856-1-ND	.35	.33	.25	—	—	—	F0402E1R50FSTR
	2.00	478-2857-1-ND	.35	.33	.25	478-2857-2-ND	5,000	135.00/M	F0402E2R00FSTR
0402G	0.125	478-6167-1-ND ***NEW!***	1.02	.95	.72	478-6167-2-ND ***NEW!***	5,000	392.00/M	F0402G0R12FNTR
0603	0.25	478-2858-1-ND	.39	.36	.27	478-2858-2-ND	3,000	122.00/M	F0603E0R25FSTR
	0.375	478-2859-1-ND	.39	.36	.27	478-2859-2-ND	3,000	122.00/M	F0603E0R37FSTR
	0.50	478-2860-1-ND	.39	.36	.27	478-2860-2-ND	3,000	122.00/M	F0603E0R50FSTR
	0.75	478-2861-1-ND	.39	.36	.27	478-2861-2-ND	3,000	122.00/M	F0603E0R75FSTR
	1.00	478-2862-1-ND	.39	.36	.27	478-2862-2-ND	3,000	122.00/M	F0603E1R00FSTR
	1.25	478-2863-1-ND	.39	.36	.27	478-2863-2-ND	3,000	122.00/M	F0603E1R25FSTR
	1.55	478-2864-1-ND	.39	.36	.27	478-2864-2-ND	3,000	122.00/M	F0603E1R50FSTR
	1.75	478-2865-1-ND	.39	.36	.27	478-2865-2-ND	3,000	122.00/M	F0603E1R75FSTR
	2.00	478-2866-1-ND	.39	.36	.27	478-2866-2-ND	3,000	122.00/M	F0603E2R00FSTR
	2.50	478-2867-1-ND	.39	.36	.27	478-2867-2-ND	3,000	122.00/M	F0603E2R50FSTR
	3.00	478-2868-1-ND	.39	.36	.27	478-2868-2-ND	3,000	122.00/M	F0603E3R00FSTR

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Raychem™ PolySwitch™ Resettable Devices

PolySwitch resettable devices help protect electrical and electronic circuits against excessive current, voltage, and temperature. After switching, the PolySwitch device is latched into its high-resistance, protective state by the small, sustained self-heating current. The device will reset only after it has cooled and the fault condition has been corrected, thus avoiding continuous cycling that could cause circuit damage. The device requires no manual resetting or replacement.

Definitions: • **Maximum Voltage:** The highest voltage the device can withstand (in its tripped state) without damage. • **Hold Current:** The maximum continuous current that will not cause the device to trip at 20°C. • **Trip Current:** The minimum continuous current that will cause the device to trip at 20°C. • **Maximum Current:** The largest fault current, at rated voltage, the device can interrupt without being damaged. • **Maximum R:** Maximum non-tripped resistance of the device.

Fig. 1 — RGEF and RHEF Series

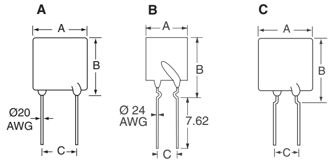

RHEF070 ONLY

This product series can be used in a wide variety of automotive, computer and general electronics applications. The RGEF devices feature high current carrying capability (up to 13 amps) in a small package with fast trip times.

Fig. 2 — RXEF Series

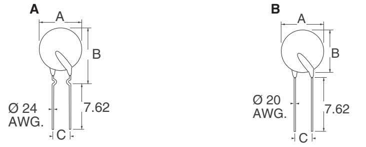

RXEF005 - RXEF090

RXEF110 - RXEF375

These products function as the general purpose line of circuit protection devices and are well suited for power supplies, alarm systems, speakers, motors and many other applications. The RXEF series range in hold currents from .05 ~ 3.75 amps and complement the RUEF devices by providing a higher voltage rating.

Fig. 3 — RUEF Series

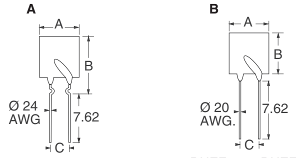

RUEF090 - RUEF250

RUEF300 - RUEF900

These devices are also suitable for use in a wide variety of general electronics applications. They complement the RXEF series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps).

Fig.	Maximum Voltage	Rated Current (20°C) (A)		Maximum Current (A)	Initial Resistance		Recognized By	Dimensions – Inches (mm)			Digi-Key Part No.	Price Each			Tyco Electronics Part No.
		Hold	Trip		RMin. (Ω)	RMax. (Ω)		A	B	C (Max.)		1	10	100	
								RGEF Series							
1A	16	3.00	5.10	100	0.038	0.0653	UL, TUV, CSA	0.28 (7.1)	0.43 (11.0)	0.23 (5.8)	RGEF300-ND	.48	.44	.40	RGEF300
	16	4.00	6.80	100	0.021	0.0393	UL, TUV, CSA	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	RGEF400-ND	.51	.47	.43	RGEF400
	16	5.00	8.50	100	0.015	0.0236	UL, TUV, CSA	0.41 (10.4)	0.56 (14.3)	0.23 (5.8)	RGEF500-ND	.56	.51	.47	RGEF500
	16	6.00	10.20	100	0.010	0.0191	UL, TUV, CSA	0.42 (10.7)	0.67 (17.1)	0.23 (5.8)	RGEF600-ND	.58	.54	.49	RGFE600
	16	7.00	11.90	100	0.0077	0.0134	UL, TUV, CSA	0.44 (11.2)	0.78 (19.7)	0.23 (5.8)	RGEF700-ND	.61	.56	.51	RGEF700
	16	8.00	13.60	100	0.0056	0.0116	UL, TUV, CSA	0.50 (12.7)	0.82 (20.9)	0.23 (5.8)	RGEF800-ND	.66	.61	.56	RGEF800
	16	9.00	15.30	100	0.0047	0.0093	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	RGEF900-ND	.68	.62	.57	RGEF900
	16	10.00	17.00	100	0.0040	0.0072	UL, TUV, CSA	0.65 (16.5)	0.99 (25.2)	0.23 (5.8)	RGEF1000-ND	.81	.75	.68	RGEF1000
	16	11.00	18.70	100	0.0037	0.0063	UL, TUV, CSA	0.69 (17.5)	1.02 (26.0)	0.23 (5.8)	RGEF1100-ND	.81	.75	.68	RGEF1100
	16	12.00	20.40	100	0.0033	0.0060	UL, TUV, CSA	0.69 (17.5)	1.10 (27.94)	0.43 (10.9)	RGEF1200-ND	.93	.86	.78	RGEF1200
	16	14.00	23.80	100	0.0026	0.0045	UL, TUV, CSA	0.925 (23.5)	1.10 (27.94)	0.43 (10.9)	RGEF1400-ND	1.08	.99	.90	RGEF1400
								RHEF Series							
1B	30	0.7	1.40	40	0.300	0.546	UL, TUV, CSA	0.27 (6.86)	0.425 (10.8)	0.23 (5.8)	RHEF070-ND	.45	.41	.38	RHEF070
1C	16	4.0	7.00	100	0.018	0.029	UL, TUV, CSA	0.45 (11.4)	0.71 (18.0)	0.23 (5.8)	RHEF400-ND	.60	.55	.50	RHEF400
	16	4.5	7.80	100	0.022	0.036	UL, TUV, CSA	0.41 (10.4)	0.61 (15.6)	0.23 (5.8)	RHEF450-ND	.63	.58	.53	RHEF450
	16	6.0	10.80	100	0.013	0.022	UL, TUV, CSA	0.44 (11.2)	0.83 (21.0)	0.23 (5.8)	RHEF600-ND	.68	.63	.57	RHEF600
	16	7.5	13.10	100	0.0094	0.0153	UL, TUV, CSA	0.55 (14.0)	0.93 (23.5)	0.23 (5.8)	RHEF750-ND	.78	.72	.65	RHEF750
	16	10.0	18.50	100	0.0062	0.0105	UL, TUV, CSA	0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	RHEF1000-ND	.96	.88	.80	RHEF1000
	16	13.0	24.00	100	0.0041	0.0069	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHEF1300-ND	1.11	1.02	.93	RHEF1300
	16	15.0	28.00	100	0.0032	0.0061	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHEF1500-ND	1.23	1.13	1.03	RHEF1500
								RXEF Series							
2A	60	0.05	0.10	40	7.3	11.1	UL, TUV, CSA	0.32 (8.0)	0.33 (8.3)	0.23 (5.8)	RXEF005-ND	.35	.33	.30	RXEF005
	60	0.10	0.20	40	2.5	4.50	UL, TUV, CSA	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	RXEF010-ND	.33	.31	.28	RXEF010
	60	0.10	0.20	40	2.5	4.50	UL, TUV, CSA	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	RXEF010TR-ND‡		633.00/3,000		RXEF010-2
	60	0.17	0.34	40	3.3	5.21	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXEF017-ND	.33	.31	.28	RXEF017
	72	0.20	0.40	40	1.83	2.75	UL, TUV, CSA	0.29 (7.4)	0.46 (11.7)	0.23 (5.8)	RXEF020-ND	.35	.32	.29	RXEF020
	72	0.20	0.40	40	1.83	2.75	UL, TUV, CSA	0.29 (7.4)	0.46 (11.7)	0.23 (5.8)	RXEF020TR-ND‡		603.00/3,000		RXEF020-2
	72	0.25	0.50	40	1.25	1.95	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXEF025-ND	.35	.32	.29	RXEF025
	72	0.30	0.60	40	0.88	1.33	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXEF030-ND	.36	.33	.30	RXEF030
	72	0.40	0.80	40	0.55	0.86	UL, TUV, CSA	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	RXEF040-ND	.38	.35	.32	RXEF040
	72	0.40	0.80	40	0.55	0.86	UL, TUV, CSA	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	RXEF040TR-ND‡		669.00/3,000		RXEF040-2
	72	0.50	1.00	40	0.50	0.77	UL, TUV, CSA	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	RXEF050-ND	.39	.36	.33	RXEF050
	72	0.50	1.00	40	0.50	0.77	UL, TUV, CSA	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	RXEF050TR-ND‡		690.00/3,000		RXEF050-2
	72	0.65	1.30	40	0.31	0.48	UL, TUV, CSA	0.37 (9.40)	0.57 (14.5)	0.23 (5.8)	RXEF065-ND	.40	.37	.34	RXEF065
	72	0.75	1.50	40	0.25	0.40	UL, TUV, CSA	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	RXEF075-ND	.41	.38	.34	RXEF075
	72	0.75	1.50	40	0.25	0.40	UL, TUV, CSA	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	RXEF075TR-ND‡		714.00/3,000		RXEF075-2
	72	0.90	1.80	40	0.20	0.31	UL, TUV, CSA	0.44 (11.2)	0.62 (15.8)	0.23 (5.8)	RXEF090-ND	.41	.38	.35	RXEF090
2B	72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	RXEF110-ND	.41	.38	.35	RXEF110
	72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	RXEF110TR-ND‡		370.50/1,500		RXEF110-2
	72	1.35	2.70	40	0.12	0.19	UL, TUV, CSA	0.57 (14.5)	0.75 (19.1)	0.23 (5.8)	RXEF135-ND	.43	.40	.36	RXEF135
	72	1.60	3.20	40	0.09	0.14	UL, TUV, CSA	0.64 (16.3)	0.82 (20.8)	0.23 (5.8)	RXEF160-ND	.46	.43	.39	RXEF160
	72	1.85	3.70	40	0.08	0.12	UL, TUV, CSA	0.69 (17.5)	0.88 (22.4)	0.23 (5.8)	RXEF185-ND	.47	.44	.40	RXEF185
	72	2.50	5.00	40	0.05	0.08	UL, TUV, CSA	0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	RXEF250-ND	.59	.54	.49	RXEF250
	72	3.00	6.00	40	0.04	0.06	UL, TUV, CSA	0.94 (23.9)	1.13 (28.7)	0.43 (10.9)	RXEF300-ND	.66	.61	.55	RXEF300
	72	3.75	7.50	40	0.03	0.05	UL, TUV, CSA	1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	RXEF375-ND	.76	.70	.64	RXEF375
								RUEF Series							
3A	30	0.90	1.80	40	0.070	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RUEF090-ND	.38	.36	.32	RUEF090
	30	1.10	2.20	40	0.050	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RUEF110-ND	.39	.36	.33	RUEF110
	30	1.35	2.70	40	0.040	0.08	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RUEF135-ND	.40	.37	.33	RUEF135
	30	1.60	3.20	40	0.030	0.07	UL, TUV, CSA	0.35 (8.9)	0.60 (15.2)	0.23 (5.8)	RUEF160-ND	.40	.37	.34	RUEF160
	30	1.85	3.70	40	0.030	0.06	UL, TUV, CSA	0.40 (10.2)	0.62 (15.7)	0.23 (5.8)	RUEF185-ND	.41	.38	.34	RUEF185
	30	2.50	5.00	40	0.020	0.04	UL, TUV, CSA	0.45 (11.4)	0.72 (18.3)	0.23 (5.8)	RUEF250-ND	.43	.40	.36	RUEF250
3B	30	3.00	6.00	40	0.020	0.05	UL, TUV, CSA	0.45 (11.4)	0.68 (17.3)	0.23 (5.8)	RUEF300-ND	.46	.42	.38	RUEF300
	30	4.00	8.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.79 (20.1)	0.23 (5.8)	RUEF400-ND	.50	.47	.42	RUEF400
	30	5.00	10.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.98 (24.9)	0.43 (10.9)	RUEF500-ND	.63	.58	.53	RUEF500
	30	6.00	12.00	40	0.005	0.02	UL, TUV, CSA	0.65 (16.5)	0.98 (24.9)	0.43 (10.9)	RUEF600-ND	.68	.62	.57	RUEF600
	30	7.00	14.00	40	0.005	0.02	UL, TUV, CSA	0.75 (19.1)	1.05 (26.7)	0.43 (10.9)	RUEF700-ND	.70	.65	.59	RUEF700
	30	8.00	16.00	40	0.005	0.013	UL, TUV, CSA	0.85 (21.6)	1.15 (29.2)	0.43 (10.9)	RUEF800-ND	.73	.67	.61	RUEF800
	30	9.00	18.00	40	0.005	0.01	UL, TUV, CSA	0.95 (24.1)	1.17 (29.7)	0.43 (10.9)	RUEF900-ND	.83	.77	.70	RUEF900
								RTEF Series							
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTEF120-ND	.47	.43	.39	RTEF120
	33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTEF135-ND	.48	.44	.40	RTEF135
	33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTEF190-ND	.51	.47	.43	RTEF190

‡ Tape and Reel

Fig.	Operating Voltage	Rated Current (20°C) (A)		Maximum Interrupt Voltage	Maximum Interrupt Current	Initial Resistance		Recognized By	Dimensions – Inches (mm)				Digi-Key Part No.	Price Each			Tyco Electronics Part No.
		Hold	Trip			RMin. (Ω)	RMax. (Ω)		A	B	C (Max.)	D (Min.)		1	10	100	
									LVRL Line Voltage Series								
5A	120 VAC	0.75	1.52	135 VAC	7.5A	0.25	0.40	UL, TUV, CSA	0.43 (10.9)	0.67 (17.0)	0.23 (5.8)	0.30 (7.6)	LVRL075S-ND	.58	.54	.49	LVRL075S
	120 VAC	1.00	2.00	135 VAC	10.0A	0.18	0.27	UL, TUV, CSA	0.45 (11.5)	0.79 (20.1)	0.23 (5.8)	0.30 (7.6)	LVRL100S-ND	.77	.71	.64	LVRL100S
	120 VAC	1.25	2.50	135 VAC	12.5A	0.12	0.18	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVRL125S-ND	.82	.76	.69	LVRL125S
	120 VAC	1.35	2.70	135 VAC	13.5A	0.11	0.17	UL, TUV, CSA	0.64 (16.3)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVRL135S-ND	.86	.80	.72	LVRL135S
	120 VAC	2.00	4.20	135 VAC	20.0A	0.08	0.12	UL, TUV, CSA	0.93 (23.5)	1.25 (31.8)	0.43 (10.9)	0.30 (7.6)	LVRL200S-ND	1.20	1.10	1.00	LVRL200S

(Continued)

Fig. 4 — RTEF Series

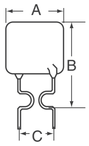

RTEF series devices are suitable for use in IEEE-1394 applications.

Fig. 5 — LVR/ LVRL Series

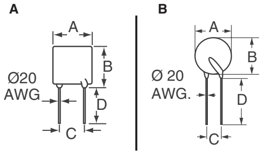

Polyswitch LVR/LVRL devices can be used for overcurrent protection in line voltage 120/240 VAC applications. Compliant with UL 1434 safety standards

Fig. 6 — RUSBF Series

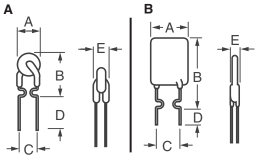

PolySwitch RUSB(F) devices help meet USB and safety agency requirements. The RUSB(F) family of leaded resettable devices offers overcurrent protection for USB applications.

Fig. 7 — TR/TRF Series

A – Encapsulated **B**

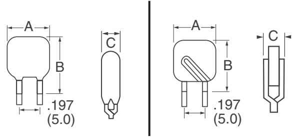

These product families help provide protection against damage caused by power cross and power induction surge as defined in ITU, Telcordia, and UL.

Fig. 8 — SRPF Series

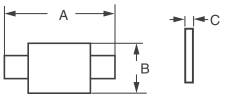

These products help provide reliable, non-cycling protection for rechargeable batteries. Weldable nickel leads and a narrow, low-profile design make these devices extremely easy to install on the edges of battery packs.

Fig.	Operating Voltage	Rated Current (20°C) (A)		Maximum Interrupt Voltage	Maximum Interrupt Current	Initial Resistance		Recognized By	Dimensions – Inches (mm)				Digi-Key Part No.	Price Each			Tyco Electronics Part No.
		Hold	Trip			RMin. (Ω)	RMax. (Ω)		A	B	C (Max.)	D (Min.)		1	10	100	
									LVR Line Voltage Series								
5A	240 VAC	.25	.56	265 VAC	3.5A	1.3	2.1	UL, TUV, CSA	0.38 (9.6)	0.69 (17.4)	0.23 (5.8)	0.30 (7.6)	LVR025S-ND	.57	.53	.48	LVR025S
	240 VAC	.40	.90	265 VAC	5.5A	0.6	0.97	UL, TUV, CSA	0.46 (11.5)	0.77 (19.5)	0.23 (5.8)	0.30 (7.6)	LVR040S-ND	.69	.64	.58	LVR040S
	240 VAC	.55	1.25	265 VAC	7.0A	0.45	0.73	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVR055S-ND	.69	.64	.58	LVR055S
	240 VAC	.75	1.5	265 VAC	7.5A	0.32	0.48	UL, TUV, CSA	0.45 (11.5)	0.92 (23.4)	0.24 (6.1)	0.20 (5.1)	LVR075S-ND	1.11	1.02	.93	LVR075S
	240 VAC	2.00	4.00	265 VAC	20.0A	0.09	0.13	UL, TUV, CSA	0.98 (24.9)	1.33 (33.8)	0.45 (11.4)	0.20 (5.1)	LVR200S-ND	2.77	2.55	2.31	LVR200S
5B	240 VAC	.05	.12	265 VAC	1.0A	18.5	31.0	UL, TUV, CSA	0.27 (6.9)	0.39 (9.9)	0.23 (5.8)	0.30 (7.6)	LVR005NS-ND	.51	.47	.43	LVR005NS
	240 VAC	.08	.19	265 VAC	1.2A	7.4	12.0	UL, TUV, CSA	0.28 (7.2)	0.40 (10.2)	0.23 (5.8)	0.30 (7.6)	LVR008NS-ND	.51	.47	.43	LVR008NS
	240 VAC	.12	.30	265 VAC	1.2A	3.0	6.5	UL, TUV, CSA	0.33 (8.3)	0.43 (10.7)	0.23 (5.8)	0.30 (7.6)	LVR012S-ND	.51	.47	.43	LVR012S
	240 VAC	.16	.37	265 VAC	2.0A	2.5	4.1	UL, TUV, CSA	0.39 (9.9)	0.50 (12.5)	0.23 (5.8)	0.30 (7.6)	LVR016S-ND	.54	.50	.45	LVR016S
	240 VAC	1.00	2.00	265 VAC	10.0A	0.22	0.33	UL, TUV, CSA	0.74 (18.7)	0.96 (24.4)	0.45 (11.4)	0.20 (5.1)	LVR100S-ND	1.41	1.30	1.18	LVR100S
	240 VAC	1.25	2.50	265 VAC	12.5A	0.17	0.18	UL, TUV, CSA	0.84 (21.2)	1.08 (27.4)	0.45 (11.4)	0.20 (5.1)	LVR125S-ND	1.56	1.43	1.30	LVR125S

Fig.	Maximum Voltage	Rated Current (20°C) (A)		Initial Resistance		Recognized By	Dimensions – Inches (mm)					Digi-Key Part No.	Price Each			Tyco Electronics Part No.
		Hold	Trip	RMin. (Ω)	RMax. (Ω)		A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)		1	10	100	
							RUSBF Series									
6A	6	0.75	1.3	0.110	0.177	UL, TUV, CSA	0.27 (6.9)	0.45 (11.4)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF075-ND	.38	.35	.32	RUSBF075
	6	1.20	2.0	0.650	0.098	UL, TUV, CSA	0.27 (6.9)	0.46 (11.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF120-ND	.46	.42	.38	RUSBF120
	6	1.55	2.65	0.043	0.071	UL, TUV, CSA	0.27 (6.9)	.46 (11.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF155-ND	.47	.43	.39	RUSBF155
6B	16	0.90	1.8	0.070	0.121	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF090-ND	.44	.41	.37	RUSBF090
	16	1.10	2.2	0.050	0.096	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF110-ND	.45	.42	.38	RUSBF110
	16	1.35	2.7	0.040	0.075	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF135-ND	.46	.43	.39	RUSBF135
	16	1.60	3.2	0.030	0.062	UL, TUV, CSA	0.35 (8.9)	.60 (15.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF160-ND	.48	.44	.40	RUSBF160
	16	1.85	3.7	0.030	0.055	UL, TUV, CSA	0.40 (10.2)	.62 (15.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF185-ND	.50	.46	.42	RUSBF185
	16	2.50	5.0	0.020	0.036	UL, TUV, CSA	0.45 (11.4)	.72 (18.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF250-ND	.51	.47	.43	RUSBF250

Fig.	Max. Voltage	Operating Voltage (Vdc)	Rated Current (20°C) (A)		Max. Current (A)	RMax. Initial (Ω)	Recognized By	Dimensions – Inches (mm)			Digi-Key Part No.	Price Each			Tyco Electronics Part No.
			Hold	Trip				A	B	C		1	10	100	
								TRF Series							
7A	250	60	0.120	0.24	3	8.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.0)	0.180 (4.60)	TRF250-120-ND	.63	.58	.53	TRF250-120
	250	60	0.120	0.24	3	8.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.0)	0.180 (4.60)	TRF250-120TR-ND‡		556.50/1,500		TRF250-120-2
	250	60	0.145	0.29	3	6.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.0)	0.180 (4.60)	TRF250-145-ND	.63	.58	.53	TRF250-145
	250	100	0.180	0.65	10	2.2	UL, TUV, CSA	0.354 (9.0)	0.472 (12.0)	0.150 (3.80)	TRF250-180-ND	.65	.60	.55	TRF250-180
	600	250	0.150	0.30	3	10.0	UL, TUV, CSA	0.354 (9.0)	0.492 (12.5)	0.180 (4.60)	TRF600-150-ND	.93	.85	.78	TRF600-150
	600	250	0.150	0.30	3	10.0	UL, TUV, CSA	0.354 (9.0)	0.492 (12.5)	0.180 (4.60)	TRF600-150TR-ND‡		795.00/1,500		TRF600-150-2
	600	250	0.160	0.32	3	10.0	UL,CSA	0.630 (16.0)	0.496 (12.6)	0.236 (6.00)	TRF600-160-ND	1.05	.97	.88	TRF600-160
7B	250	60	0.080	0.16	3	20.0	UL, TUV, CSA	0.189 (4.80)	0.366 (9.30)	0.150 (3.80)	TRF250-080U-ND	.59	.55	.50	TRF250-080U
	250	60	0.120	0.24	3	10.0	UL, TUV, CSA	0.236 (6.00)	0.394 (10.0)	0.150 (3.80)	TRF250-120U-ND	.57	.53	.48	TRF250-120U
	250	60	0.145	0.29	3	6.5	UL, TUV, CSA	0.236 (6.00)	0.394 (10.0)	0.150 (3.80)	TRF250-145U-ND	.57	.53	.48	TRF250-145U

‡ Tape and Reel

Fig.	Maximum Voltage	Rated Current (20°C) (A)		Maximum Current (A)	RMax. Initial (Ω)	Recognized By	Dimensions – Inches (mm)			Digi-Key Part No.	Price Each			Tyco Electronics Part No.
		Hold	Trip				A	B	C		1	10	100	
							SRPF Series							
8	15	1.20	2.70	100	0.16	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.04 (1.0)	SRP120F-ND	.57	.53	.48	SRP120F
	15	1.75	3.80	100	0.09	UL, TUV, CSA	0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	SRP175F-ND	.57	.53	.48	SRP175F
	30	2.00	4.40	100	0.06	UL, TUV, CSA	0.92 (23.4)	0.43 (11.0)	0.04 (1.0)	SRP200F-ND	.57	.53	.48	SRP200F
	30	3.50	6.30	100	0.03	UL, TUV, CSA	1.25 (31.8)	0.53 (13.5)	0.04 (1.0)	SRP350F-ND	.60	.55	.50	SRP350F
	30	4.20	7.60	100	0.024	UL, TUV, CSA	1.28 (32.4)	0.54 (13.6)	0.04 (1.0)	SRP420F-ND	.62	.57	.52	SRP420F

Fig.	Max. Volt.	Rated Current 20°C (A)		Max. Current (A)	R1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm)						Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Tyco Electronics Part No.
		Hold	Trip				A (Max.)	B (Max.)	C (Max.)	D	E	F		1	10	100	Qty.	Pricing	
							SMDF Series												
9	60	0.30	0.60	10	4.8	UL, TUV, CSA	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD030FCT-ND	.62	.54	.49	2,000	299.00/M	SMD030F-2
	60	0.50	1.00	10	1.4	UL, TUV, CSA	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD050FCT-ND	.65	.56	.51	2,000	310.00/M	SMD050F-2
	30	0.75	1.50	40	1.0	UL, TUV, CSA	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD075FCT-ND	.62	.53	.49	2,000	295.00/M	SMD075F-2
	30	1.10	2.20	40	0.48	UL, TUV, CSA	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD100FCT-ND	.62	.53	.49	2,000	295.00/M	SMD100F-2
	15	1.25	2.50	40	0.25	UL, TUV, CSA	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD125FCT-ND	.65	.56	.51	2,000	310.00/M	SMD125F-2
	15	1.50	3.00	40	0.25	UL, TUV, CSA	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD150FCT-ND	.62	.53	.49	1,500	295.00/M	SMD150F-2
	33	1.50	3.00	40	0.23	UL, TUV, CSA	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD150F/33-2CT-ND	.62	.53	.49	1,500	295.00/M	SMD150F/33-2
	33	1.85	3.60	40	0.16	UL, TUV, CSA	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD185F-2CT-ND	.66	.57	.52	1,500	315.00/M	SMD185F-2
	15	2.00	4.00	40	0.125	UL, TUV, CSA	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD200FCT-ND	.62	.53	.49	1,500	295.00/M	SMD200F-2
	15	2.50	5.00	40	0.085	UL, TUV, CSA	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD250FCT-ND	.63	.55	.50	1,500	304.00/M	SMD250F-2
	6	2.60	5.20	40	0.075	UL, TUV, CSA	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD260FCT-ND	.65	.56	.51	2,000	310.00/M	SMD260F-2
	6	3.00	6.00	40	0.048	UL, TUV, CSA	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD300FCT-ND	.65	.56	.51	2,000	310.00/M	SMD300F-2

Fig.	Maximum Voltage	Rated Current (20°C) (A)		Maximum Current (A)	R1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm)			Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Tyco Electronics Part No.
		Hold	Trip				A (Max.)	B (Max.)	C (Max.)		1	10	100	Qty.	Pricing	
							miniSMDF Series									
10	60	0.14	0.34	10	6.0	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.035 (0.89)	MINISMDC014FCT-ND	.45	.39	.36	2,000	216.00/M	MINISMDC014F-2
	30	0.20	0.40	10	3.3	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.035 (0.89)	MINISMDC020FCT-ND	.43	.38	.35	2,000	208.00/M	MINISMDC020F-2
	24	0.50	1.00	100	1.0	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC050FCT-ND	.43	.38	.35	2,000	208.00/M	MINISMDC050F-2

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Rated Current @ 25°C

(Continued)

H

Fig. 9 — SMDF Series

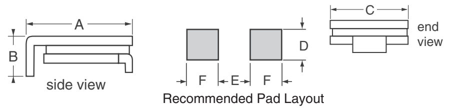

This product series can be used in surface mount applications. The products range in hold currents from 0.3 amps ~ 3.0 amps and voltages from 6 volts ~ 60 volts. These devices are suited for high density board applications in computer and computer peripheral products, telecommunications and general electronics applications. They can be re-flowed onto a PCB using standard surface mount processes. Packaged per EIA-481 standard.

Fig. 10 — miniSMDF Series

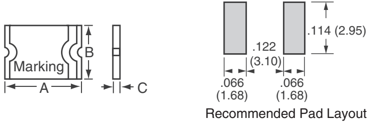

The small size of the miniSMDF devices make them a suitable choice for keyboard and mouse ports, SCSI devices, battery packs, PC cards and sockets, cellular modems and phones, and portable electronic equipment. SMT packaging for automated assembly compared to SMD the miniSMD offers: 40% reduction in size, 300% faster time to trip, 50% reduction in DC resistance, 66% reduction in profile, 80% reduction in mass and drop in replacement for the NANO 2 device in many applications.

Fig. 11 — microSMDF Series

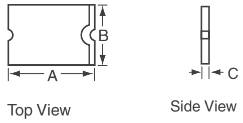

This product series can be used in surface-mount applications. Its smaller component size enables installation on crowded printed circuit boards and in small end-user devices such as digital cameras, personal digital assistants (PDAs) and palm-top computers. The new low hold current devices are suitable for helping to protect industrial sensors and data acquisition systems.

Fig. 12 — nanoSMDF Series (1206 Footprint)

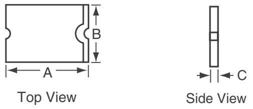

Offering a fast time to trip, the nanoSMDF series is available in a 1206 footprint. Its smaller size helps save board space and cost. These devices are also suitable for high volume electronics assembly.

Fig. 13 — picoSMDC Series (0805 Footprint) ***NEW!***

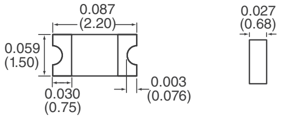

The picoSMD(C) series can be used in the latest generation of high frequency data ports, I/O ports and storage. The device's small size, fast time-to-trip, and low power dissipation make it a logical and innovative solution for high-density circuit board designs.

Fig. 14 — femtoSMDC Series (0603 Footprint) ***NEW!***

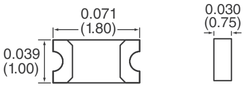

The femtoSMDC series can be used in the latest generation of high frequency data ports, I/O ports and storage devices. The device's small size, fast time-to-trip, and low power dissipation make it a logical and innovative solution for high-density circuit board designs.

Fig.	Maximum Voltage	Rated Current (20°C) (A) Hold	Rated Current (20°C) (A) Trip	Maximum Current (A)	R1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A (Max.)	Dimensions – Inches (mm) B (Max.)	Dimensions – Inches (mm) C (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape and Reel† Qty.	Tape and Reel† Pricing	Tyco Electronics Part No.
10	13.2	0.75	1.50	100	0.45	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC075FCT-ND	.43	.38	.35	2,000	208.00/M	MINISMDC075F-2
	24	0.75	1.50	40	0.29	UL, TUV, CSA	0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMDC075F242CT-ND	.56	.49	.45	1,500	270.00/M	MINISMDC075F/24-2
	8	1.10	2.20	100	0.21	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC110FCT-ND	.35	.30	.28	2,000	168.00/M	MINISMDC110F-2
	24	1.10	2.20	20	0.18	UL, TUV, CSA	0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMDC110F242CT-ND	.60	.51	.47	1,500	285.00/M	MINISMDC110F/24-2
	6	1.25	2.50	100	0.14	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC125FCT-ND	.46	.40	.37	2,000	220.00/M	MINISMDC125F-2
	16	1.25	2.50	100	0.14	UL, TUV, CSA	0.190 (4.83)	0.134 (3.41)	0.019 (0.48)	MINISMDC125F162CT-ND	.51	.44	.40	2,000	243.00/M	MINISMDC125F/16-2
	6	1.50	3.00	100	0.11	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC150FCT-ND	.45	.39	.36	2,000	216.00/M	MINISMDC150F-2
	12	1.50	2.80	100	0.11	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC150F122CT-ND	.48	.42	.38	2,000	230.00/M	MINISMDC150F/12-2
	24	1.50	3.00	20	0.12	UL, TUV, CSA	0.190 (4.83)	0.134 (3.41)	0.066 (1.68)	MINISMDC150F242CT-ND	.63	.54	.50	1,000	302.00	MINISMDC150F/24-2
	9	1.60	3.20	100	0.10	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC160FCT-ND	.43	.38	.35	2,000	208.00/M	MINISMDC160F-2
	8	2.00	4.00	100	0.07	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.048 (1.22)	MINISMDC200FCT-ND	.47	.40	.37	2,000	223.00/M	MINISMDC200F-2
	6	2.60	5.00	100	0.04	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.029 (0.74)	MINISMDC260FCT-ND	.49	.43	.39	2,000	236.00/M	MINISMDC260F-2
microSMDF Series																
11	30	0.05	0.15	10	50	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSMD005FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD005F-2
	30	0.10	0.25	10	15	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSMD010FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD010F-2
	6	0.35	0.75	40	1.3	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD035FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD035F-2
	13.2	0.50	1.0	40	0.90	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD050FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD050F-2
	6	0.75	1.5	40	0.40	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD075FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD075F-2
	6	1.10	2.2	40	0.21	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.019 (0.48)	MICROSMD110FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD110F-2
	6	1.50	3.00	40	0.11	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.048 (1.22)	MICROSMD150FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD150F-2
	6	1.75	3.50	40	0 .08	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.030 (0.76)	MICROSMD175FCT-ND	.54	.47	.43	4,000	260.00/M	MICROSMD175F-2
nanoSMDF Series																
12	48	0.16	0.45	10	1.10	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.039 (1.00)	NANOSMDC016F-2CT-ND	.46	.39	.36	3,000	218.00/M	NANOSMDC016F-2
	24	0.20	0.42	100	2.6	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC020FCT-ND	.46	.39	.36	3,000	218.00/M	NANOSMDC020F-2
	16	0.35	0 .75	20	1.40	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC035FCT-ND	.46	.39	.36	3,000	218.00/M	NANOSMDC035F-2
	13.2	0.50	1.10	100	0.8	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC050F/13.2CT-ND	.46	.39	.36	3,000	218.00/M	NANOSMD0C50F/13.2-2
	6	0.75	1.50	100	0.40	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.048 (1.22)	NANOSMDC075FCT-ND	.46	.39	.36	3,000	218.00/M	NANOSMDC075F-2
	6	1.10	2.20	100	0.20	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.039 (1.00)	NANOSMDC110FCT-ND	.44	.38	.35	3,000	211.00/M	NANOSMDC110F-2
	6	1.50	3.00	100	0.11	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.035 (0.89)	NANOSMDC150FCT-ND	.44	.38	.35	3,000	211.00/M	NANOSMDC150F-2
NEW! picoSMDC Series NEW!																
13	6	0.35	0.75	100	1.40	UL, CSA	—	—	—	PICOSMDC035S-2CT-ND	.46	.39	.36	4,000	221.00/M	PICOSMDC035S-2
NEW! femtoSMDC Series NEW!																
14	9	0.16‡	0.40‡	40	4.20	UL, CSA	—	—	—	FEMTOSMDC016FCT-ND	.49	.42	.39	4,000	235.00/M	FEMTOSMDC016F-02

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Rated Current @ 25°C

Raychem™ SiBar™ Thyristor Surge Protectors

Digi-Reel® RoHS COMPLIANT

SiBar thyristor surge protection devices help protect sensitive telecom and datacom equipment from overvoltage events, including lightning transients, and operate as shunt devices in response to a surge that exceeds the breakover voltage. Compliant with major standards such as GR-1089 Core, ITU-T-K20/K21, IEC61000-4-5 and FCC part 68, and UL1950. SiBar devices provide fast, bidirectional protection on communications network equipment, including analog and digital linecards, xDSL and ISDN modems, set-top boxes, TI equipment, Voice over IP (VoIP) and Power over Ethernet (PoE) equipment.

Features: • Bidirectional transient voltage protection • High off-state impedance • Low on-state voltage • High surge capability • Short-circuit failure mode • Surface-mount technology

Dimensions: Inches (mm)

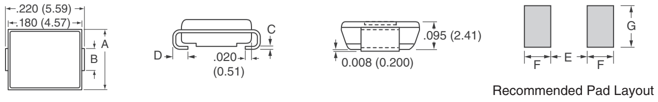

VDM Max. (V)	VBO Max. (V)	IH Min. (mA)	VT Max. (V)	C1@50V Typical (pF)	C2@2V Typical (pF)	ITSM Min. (A)	Dimensions – Inches (mm) A	Dimensions – Inches (mm) B	Dimensions – Inches (mm) C	Dimensions – Inches (mm) D	Dimensions – Inches (mm) E	Dimensions – Inches (mm) F	Dimensions – Inches (mm) G	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape and Reel† Qty.	Tape and Reel† Pricing	Tyco Electronics Part No.
Standard SMB Package (JEDEC DO-214AA)																				
270	350	150	4.0	25	50	30	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB270SB-LCT-ND	.81	.70	.64	2,500	387.00/M	TVB270SB-L

† For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Raychem™ PolyZen™ Devices

Dimensions in Inches (mm)

PolyZen devices are polymer enhanced precision Zener diode micro-assemblies that help protect sensitive electronics from damage caused by inductive voltage spikes, voltage transients, incorrect power supplies and reverse bias. The PolyZen micro-assembly incorporates a stable Zener diode for precise voltage clamping and a resistively non-linear, polymeric positive temperature coefficient (PPTC) layer that responds to either diode heating or overcurrent events by transitioning from a low to high resistance state.

Benefits: • Helps shield downstream electronics from overvoltage and reverse bias • Trip events shut out overvoltage and reverse bias sources • Analog nature of trip events minimizes upstream inductive spikes • Helps reduce design costs with single component placement and minimal heat sinking requirements

Features: • Overvoltage transient suppression • Holds current up to 2.3A • Time delayed, overvoltage trip • Time delayed, reverse bias trip • Power handling on the order of 30 watts • Integrated device construction

Applications: • DC power port protection for systems using barrel jacks for power input • USB peripheral protection • DC power port protection in portable electronics • Automotive peripheral input power protection

General Characteristics: • **Operating Temperature Range:** -40°C ~ 85°C • **ESD Withstand:** 15KV Human Body Model • **Diode Capacitance:** 4200pF Typical @ 1MHz, 1V RMS

Test Board Features: • **Thickness:** 0.062 inches • **Board Material:** FR4 Laminate (glass, epoxy) with 2-sided 2oz. copper cladding • **Plating:** 3 ~ 5μ inches Gold over 100μ inches Nickel on all exposed pads and vias • **Connections:** 3 Gold-plated contact fingers (.30" X .50") identified V_{IN}, V_{OUT}, GND. 3 Gold-plated vias provided as alternate connections.

Fig. 1

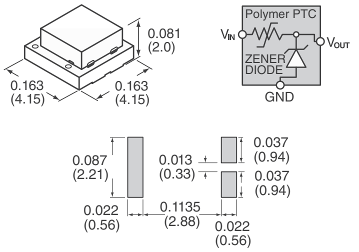

Fig. 2

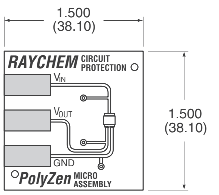

Fig.	Vz Typical (V)	Izt (A)	IHOLD @ 20°C (A)	R Typ (Ω)	R1Max. (Ω)	VINT Max. @ 3V (V)	IFLT Max. @ 16V (A)	Power Dissipation Typ. (W)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Pricing 3,000	Tyco Electronics Part No.
								Diodes						
1	5.6	0.1	0.75	0.28	0.45	48	+10 / -40	0.7	ZEN056V075A48LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN056V075A48LS
	5.6	0.1	1.3	0.12	0.16	24	+10 / -40	0.7	ZEN056V130A24LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN056V130A24LS
	5.6	0.1	2.3	0.04	0.06	16	+5 / -40	0.7	ZEN056V230A16LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN056V230A16LS
	6.5	0.1	2.3	0.04	0.06	16	+3.5 / -40	0.7	ZEN065V230A16LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN065V230A16LS
	13.2	0.1	1.3	0.12	0.16	24	+3 / -40	0.7	ZEN132V130A24LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN132V130A24LS
	16.4	0.1	1.3	0.12	0.16	24	+1.25 / -40	0.7	ZEN164V130A24LSCT-ND	1.30	11.10	101.75	660.00/M	ZEN164V130A24LS
								Test Boards						
2	5.6	0.1	1.3	0.12	0.16	24	+10 / -40	0.7	ZEN056V130A24LSTB-ND	11.97	109.73	—	—	ZEN056V130A24LS-TB
	5.6	0.1	2.3	0.04	0.06	16	+5 / -40	0.7	ZEN056V230A16LS-TB-ND	11.97	109.73	997.50	—	ZEN056V230A16LS-TB
	6.5	0.1	2.3	0.04	0.06	16	+3.5 / -40	0.7	ZEN065V230A16LS-TB-ND	11.97	109.73	997.50	—	ZEN065V230A16LS-TB
	13.2	0.1	1.3	0.12	0.16	24	+3 / -40	0.7	ZEN132V130A24LSTB-ND	11.97	109.73	—	—	ZEN132V130A24LS-TB
	16.4	0.1	1.3	0.12	0.16	24	+1.25 / -40	0.7	ZEN164V130A24LS-TB-ND	11.97	109.73	997.50	—	ZEN164V130A24LS-TB

† For Tape and Reel part number, change CT-ND to TR-ND.

Raychem™ 2Pro™ Devices

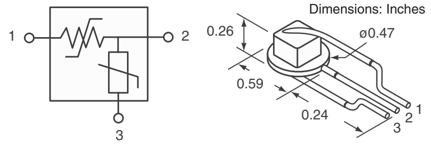

The 2Pro product is an integrated overcurrent/overvoltage protection device. The component incorporates Polyswitch PPTC (polymeric positive temperature coefficient) and metal oxide varistor technology in a single device. The 2Pro device helps provide current limiting during overcurrent events, and voltage clamping during overvoltage events. After a fault condition is removed and power is cycled, 2Pro devices will reset so that equipment remains operational. 2Pro circuit protection devices help manufacturers comply with global safety standards, including UL 60950, TIA-968-A, IEC 60950, and ITU-T K.20/K.21. The UL 497A listed protector also helps provide ESD protection.

Agency Recognition: • UL 497A/File No. E258475

Overcurrent Terminals 1 - 2				Overvoltage Terminals 2 - 3						
Rated Current (20°) (A)		Initial Resistance		Varistor Voltage V @ 1mA DC (V)	Max. Clamping Voltage @ 25A (V)	Digi-Key Part No.	Pricing			Tyco Electronics Part No.
Hold	Trip	RMin. (Ω)	RMax. (Ω)				1	10	100	
0.15	0.30	7.0	14.0	270	455	TM2P-10271-ND	.96	8.80	80.00	TM2P-10271

Raychem™
PESD and SESD Devices

The Raychem PESD and SESD electrostatic discharge protection devices provide exceptionally low capacitance, and they perform better than other comparable components in transmission line pulse (TLP) testing, as well as IEC61000-4-2 testing, especially after multiple hits (up to 1000). The devices offer a lower trigger voltage and a lower clamping voltage than typical polymer ESD devices, resulting in improved protection of sensitive electronic components.

Fig. 1

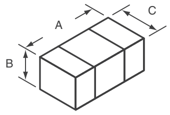

Package Size	Dimensions (Max.) – mm A	B	C
0402	1.10	0.43	0.60
0603	1.80	0.60	0.90

Fig. 2

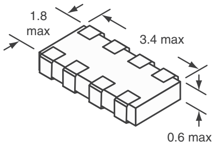

Fig. 3 ***NEW!***

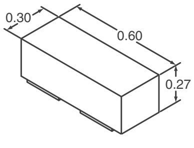

Fig. 4 ***NEW!***

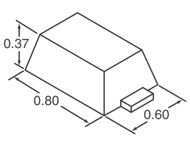

Fig.	Package Size	Max. VDC (V)	Trigger VT(IEC)▲ (V)	Clamping VC(IEC)▲§ (V)	Cp @ 1MHz, 1VRMS (pF) (Typ.)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Tyco Electronics Part No.
						PESD Devices							
1	0402	14	250	40	0.25	PESD0402-140CT-ND	.23	1.95	17.88	PESD0402-140TR-ND	10,000	85.00/M	PESD0402-140
	0603	24	215	45	0.20	PESD0603-240CT-ND	.19	1.65	15.13	PESD0603-240TR-ND	5,000	85.00/M	PESD0603-240
2	(4)1206‡	24	250	45	0.25	PESD1206Q-240CT-ND	.58	4.95	45.38	PESD1206Q-240TR-ND	5,000	255.00/M	PESD1206Q-240

▲ Measured during IEC 61000-4-2, level 4 pulse § Measured 30ns after pulse initiation ‡ Four individual suppressors

Fig.	Package Size	Input Cap. (pF) (Typ.)	Leakage Current (μA) (Max.)	Breakdown Voltage (V) (Min.)	Working Reverse Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Tyco Electronics Part No.
						NEW! SESD Devices NEW!							
3	0201	0.6	1.0	±5.8	5.0	SESD0201C-006-058CT-ND	.53	4.50	41.25	SESD0201C-006-058TR-ND	5,000	270.00/M	SESD0201C-006-058
	0201	12.0	1.0	±5.8	5.0	SESD0201C-120-058CT-ND	.26	2.25	20.63	SESD0201C-120-058TR-ND	5,000	135.00/M	SESD0201C-120-058
4	0402	0.5	1.0	+5.4/-1.0	5.0	SESD0402S-005-054CT-ND	.39	3.30	30.25	SESD0402S-005-054TR-ND	8,000	198.00/M	SESD0402S-005-054

Tyco Electronics
Authorized Distributor

Raychem™ SMD Fuses

Digi-Reel® RoHS COMPLIANT

Benefits: • Small size with high current ratings • Excellent temperature stability • High reliability and resilience • Strong arc suppression characteristics
Target Applications: • Laptops • Digital cameras • Cell phones • Printers • DVD players • Portable electronics • Game systems • LCD displays • Scanners
Features: • Monolithic, multilayer design • Lead-free construction • High temperature performance • Operating Temperature Range: -55°C ~ 125°C
Agency Approvals: UL File# E197536

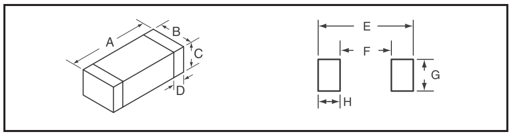

Rated Current (A)	Nominal Cold DCR (Ω)	Maximum Interrupt Ratings		Dimensions - Inches (mm)								Digi Key Part No.	Cut Tape Price Each			Tape and Reel†		Raychem Part No.
		Voltage (VDC)	Current (A)	A	B	C	D	E	F	G	H		1	10	100	Qty.	Pricing	
0402 Series — Fast Acting																		
1.00	0.120	24	35	0.039 (1.00)	0.020 (0.51)	0.020 (0.51)	0.010 (0.25)	0.063 (1.60)	0.016 (0.40)	0.028 (0.70)	0.024 (0.60)	0402SFF100F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF100F/24-2
2.00	0.035	24	35	0.039 (1.00)	0.020 (0.51)	0.020 (0.51)	0.010 (0.25)	0.063 (1.60)	0.016 (0.40)	0.028 (0.70)	0.024 (0.60)	0402SFF200F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF200F/24-2
3.00	0.021	24	35	0.039 (1.00)	0.020 (0.51)	0.020 (0.51)	0.010 (0.25)	0.063 (1.60)	0.016 (0.40)	0.028 (0.70)	0.024 (0.60)	0402SFF300F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF300F/24-2
4.00	0.014	24	35	0.039 (1.00)	0.020 (0.51)	0.020 (0.51)	0.010 (0.25)	0.063 (1.60)	0.016 (0.40)	0.028 (0.70)	0.024 (0.60)	0402SFF400F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF400F/24-2
0603 Series — Fast Acting																		
1.00	0.131	32	50	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF100F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF100F/32-2
1.50	0.059	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF150F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF150F/32-2
2.00	0.044	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF200F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF200F/32-2
2.50	0.032	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF250F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF250F/32-2
3.00	0.025	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF300F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF300F/32-2
3.50	0.024	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF350F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF350F/32-2
4.00	0.018	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF400F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF400F/32-2
5.00	0.013	32	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF500F/32CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF500F/32-2
6.00	0.010	24	35	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFF600F/24CT-ND	.40	.35	.32	4,000	193.00/M	0603SFF600F/24-2
1206 Series — Fast Acting																		
1.00	0.220	63	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF100F/63CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF100F/63-2
1.50	0.120	63	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF150F/63CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF150F/63-2
1.75	0.100	63	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF175F/63CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF175F/63-2
2.00	0.050	63	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF200F/63CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF200F/63-2
2.50	0.035	32	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF250F/32CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF250F/32-2
3.00	0.031	32	50	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF300F/32CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF300F/32-2
4.00	0.022	32	45	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF400F/32CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF400F/32-2
5.00	0.015	32	45	0.126 (3.20)	0.063 (1.60)	0.043 (1.10)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFF500F/32CT-ND	.47	.41	.38	3,000	226.00/M	1206SFF500F/32-2
10.0	0.010	24	100	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFH100F/24CT-ND	.60	.51	.47	3,000	285.00/M	1206SFH100F/24-2
12.0	0.008	24	100	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFH120F/24CT-ND	.60	.51	.47	3,000	285.00/M	1206SFH120F/24-2
15.0	0.005	24	100	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFH150F/24CT-ND	.60	.51	.47	3,000	285.00/M	1206SFH150F/24-2
20.0	0.003	24	100	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFH200F/24CT-ND	.60	.51	.47	3,000	285.00/M	1206SFH200F/24-2
0603 Series — Slow Blow																		
1.0	0.200	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS100F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS100F/32-2
2.0	0.052	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS200F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS200F/32-2
2.5	0.041	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS250F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS250F/32-2
3.0	0.031	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS300F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS300F/32-2
3.5	0.021	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS350F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS350F/32-2
4.0	0.017	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS400F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS400F/32-2
4.5	0.015	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS450F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS450F/32-2
5.0	0.013	32	40	0.063 (1.60)	0.031 (0.80)	0.031 (0.80)	0.014 (0.36)	0.110 (2.80)	0.024 (0.60)	0.039 (1.00)	0.043 (1.09)	0603SFS500F/32CT-ND	.81	.69	.64	4,000	386.00/M	0603SFS500F/32-2
1206 Series — Slow Blow																		
1.0	0.360	63	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS100F/63CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS100F/63-2
1.5	0.150	63	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS150F/63CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS150F/63-2
2.0	0.082	63	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS200F/63CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS200F/63-2
3.0	0.032	32	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS300F/32CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS300F/32-2
4.0	0.024	32	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS400F/32CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS400F/32-2
5.0	0.016	32	50	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS500F/32CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS500F/32-2
6.0	0.011	24	60	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS600F/24CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS600F/24-2
7.0	0.010	24	60	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS700F/24CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS700F/24-2
8.0	0.009	24	60	0.126 (3.20)	0.063 (1.60)	0.038 (0.97)	0.020 (0.51)	0.173 (4.40)	0.059 (1.50)	0.071 (1.80)	0.057 (1.45)	1206SFS800F/24CT-ND	.81	.69	.64	3,000	386.00/M	1206SFS800F/24-2

† For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic®

Micro Chip Fuse Surface Mount

Digi-Reel® RoHS COMPLIANT

Features: • Sharp fusing characteristics (Very fast acting)

Applications: • Computer and peripheral equipment, mobile phone and other digital devices **Approved Safety Standards:** • C-UL(CSA) C22.2 No. 248-14: File No. E194052; UL 248-14: File No. E194052
Specifications: • Operating Temperature Range: -40°C ~ 125°C • Fusing Current/Fusing Time (at 25°C): Rated current x 100% / 4 hours minimum or rated current x 200% / 1 second maximum or rated current x 300% / 0.2 seconds maximum

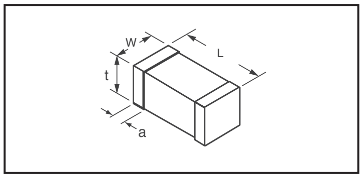

Type	Dimensions (mm)			
	L	W	a	t
ERB-SE	1.60±0.15	0.80±0.15	0.30±0.20	0.70±0.10
ERB-SD	1.00±0.10	0.50±0.10	0.20±0.15	0.40±0.10

Rated Current (A)	Rated Voltage (VDC)	Marking Code	Internal R. (mOhms) Max. @ 25°C	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
					1	10	100		Qty.	Pricing	
ERB-SE Series — 0603											
0.5	32	F	370	P11369CT-ND	.80	.47	.33	P11369TR-ND	5,000	208.00/M	ERB-SE0R50U
0.75	32	G	245	P11370CT-ND	.80	.47	.33	P11370TR-ND	5,000	208.00/M	ERB-SE0R75U
1.0	32	H	155	P11371CT-ND	.80	.47	.33	P11371TR-ND	5,000	208.00/M	ERB-SE1R00U
1.25	32	J	120	P11372CT-ND	.80	.47	.33	P11372TR-ND	5,000	208.00/M	ERB-SE1R25U
1.5	32	K	90	P11373CT-ND	.80	.47	.33	P11373TR-ND	5,000	208.00/M	ERB-SE1R50U
2.0	32	N	60	P11374CT-ND	.80	.47	.33	P11374TR-ND	5,000	208.00/M	ERB-SE2R00U
2.5	32	O	48	P11375CT-ND	.80	.47	.33	P11375TR-ND	5,000	208.00/M	ERB-SE2R50U
3.0	32	P	36	P11376CT-ND	.80	.47	.33	P11376TR-ND	5,000	208.00/M	ERB-SE3R00U
4.0	32	S	28	P13572CT-ND	.81	.48	.33	P13572TR-ND	5,000	210.00/M	ERB-SE4R00U
5.0	32	T	20	P13573CT-ND	.81	.48	.33	P13573TR-ND	5,000	210.00/M	ERB-SE5R00U
ERB-SD Series — 0402											
0.5	24	F	330	P11361CT-ND	.80	.47	.33	P11361TR-ND	10,000	200.00/M	ERB-SD0R50U
0.75	24	G	200	P11362CT-ND	.80	.47	.33	P11362TR-ND	10,000	200.00/M	ERB-SD0R75U
1.0	24	H	135	P11363CT-ND	.80	.47	.33	P11363TR-ND	10,000	200.00/M	ERB-SD1R00U
1.25	24	J	100	P11364CT-ND	.80	.47	.33	P11364TR-ND	10,000	200.00/M	ERB-SD1R25U
1.5	24	K	80	P11365CT-ND	.80	.47	.33	P11365TR-ND	10,000	200.00/M	ERB-SD1R50U
2.0	24	N	53	P11366CT-ND	.80	.47	.33	P11366TR-ND	10,000	200.00/M	ERB-SD2R00U
2.5	24	O	40	P11367CT-ND	.80	.47	.33	P11367TR-ND	10,000	200.00/M	ERB-SD2R50U
3.0	24	P	33	P11368CT-ND	.80	.47	.33	P11368TR-ND	10,000	200.00/M	ERB-SD3R00U

BOURNS® Multifuse Resettable Overcurrent Protectors

Digi-Reel® RoHS COMPLIANT

Bourns' Multifuse products provide overcurrent protection against circuit faults and safeguard against potential overcurrent damage of critical circuitry and loads in a vast amount of applications. **Agency Approvals:** • MF-R, MF-RX, MF-USMD, MF-MSMD, MF-SM, MF-MSMF – UL, CSA, TUV Approved • MF-NSMF – UL Approved • MF-SMDF – Agency Recognition Pending

Fig. 1

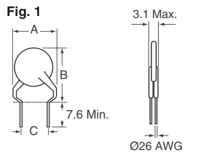

Fig. 2

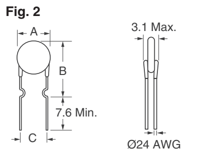

Fig. 3

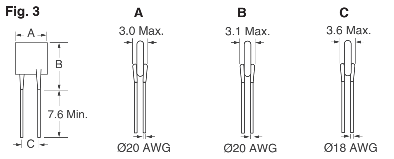

Fig. 4

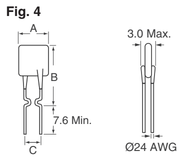

Fig. 5

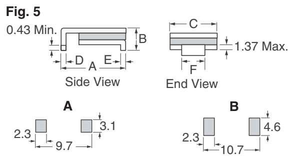

Fig. 6

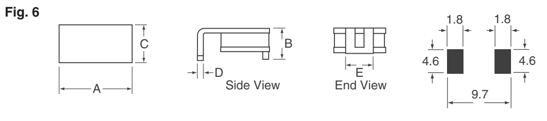

Fig. 7

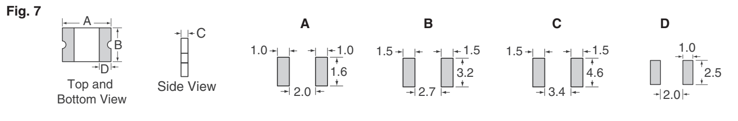

Fig.	Max. Voltage	I Max. (Amps)	Rated Current @ 23°C (Amps)		Initial Resistance @ 23°C (Ω)		Post-Trip Resistance	Dimensions – mm			Digi-Key Part No.	Price Each					Bourns Part No.
			Hold	Trip	Min.	Max.		A (Max.)	B (Max.)	C (Nom.)		1	10	100	500	1,000	
1	60	40	0.05	0.10	7.3	11.1	22.0	8.0	8.3	5.1	MF-R005-0-ND	.30	.28	.25	.20	.16	MF-R005-0
2	30	40	1.10	2.20	0.10	0.18	0.27	8.9	14.0	5.1	MF-R110-ND	.35	.33	.30	.24	.21	MF-R110
	30	40	1.35	2.70	0.065	0.115	0.17	8.9	18.9	5.1	MF-R135-ND	.35	.33	.30	.24	.21	MF-R135
	30	40	1.60	3.20	0.055	0.105	0.15	10.2	16.8	5.1	MF-R160-ND	.39	.36	.33	.27	.23	MF-R160
	30	40	1.85	3.70	0.040	0.07	0.11	12.0	18.4	5.1	MF-R185-ND	.46	.42	.39	.31	.27	MF-R185
	30	40	0.10	0.20	2.50	4.50	7.50	7.4	12.7	5.1	MF-R010-ND	.36	.34	.31	.25	.22	MF-R010
	60	40	0.17	0.34	2.00	3.20	8.00	7.4	12.7	5.1	MF-R017-ND	.35	.32	.29	.23	.20	MF-R017
	60	40	0.20	0.40	1.50	2.84	4.40	7.4	12.7	5.1	MF-R020-ND	.37	.34	.31	.24	.21	MF-R020
	60	40	0.25	0.50	1.00	1.95	3.00	7.4	12.7	5.1	MF-R025-ND	.37	.34	.31	.24	.21	MF-R025
	60	40	0.30	0.60	0.76	1.36	2.10	7.4	13.4	5.1	MF-R030-ND	.38	.35	.33	.26	.23	MF-R030
	60	40	0.40	0.80	0.52	0.86	1.29	7.4	13.7	5.1	MF-R040-ND	.39	.36	.33	.26	.22	MF-R040
	60	40	0.50	1.00	0.41	0.77	1.17	7.9	13.7	5.1	MF-R050-ND	.39	.36	.33	.25	.22	MF-R050
	60	40	0.65	1.30	0.27	0.48	0.72	9.7	15.2	5.1	MF-R065-ND	.39	.36	.33	.26	.23	MF-R065
	60	40	0.75	1.50	0.18	0.40	0.60	10.4	16.0	5.1	MF-R075-ND	.49	.46	.40	.38	.37	MF-R075
	60	40	0.90	1.80	0.14	0.31	0.47	11.7	16.7	5.1	MF-R090-ND	.35	.33	.30	.24	.21	MF-R090
3A	30	40	2.50	5.00	0.025	0.048	0.07	12.0	18.3	5.1	MF-R250-ND	.43	.40	.36	.29	.23	MF-R250
	30	40	3.00	6.00	0.020	0.05	0.08	12.0	18.3	5.1	MF-R300-ND	.49	.46	.42	.34	.29	MF-R300
	30	40	4.00	8.00	0.010	0.03	0.05	14.4	24.8	5.1	MF-R400-ND	.47	.43	.39	.32	.27	MF-R400
	30	40	5.00	10.00	0.010	0.03	0.05	17.4	24.9	10.2	MF-R500-ND	.50	.47	.42	.34	.29	MF-R500
	30	40	6.00	12.00	0.005	0.02	0.04	19.3	31.9	10.2	MF-R600-ND	.53	.49	.44	.35	.30	MF-R600
	30	40	7.00	14.00	0.005	0.02	0.03	22.1	29.8	10.2	MF-R700-ND	.54	.50	.46	.36	.31	MF-R700
	30	40	8.00	16.00	0.005	0.02	0.03	24.2	32.9	10.2	MF-R800-ND	.56	.52	.47	.38	.33	MF-R800
	30	40	9.00	18.00	0.005	0.01	0.02	24.2	32.9	10.2	MF-R900-ND	.60	.56	.51	.40	.35	MF-R900
	16	100	4.5	7.8	0.022	—	0.054	10.4	15.6	5.1	MF-RHT450-0-ND	.72	.66	.60	.48	.38	MF-RHT450-0
	16	100	6.5	12.0	0.011	—	0.026	12.7	22.2	5.1	MF-RHT650-0-ND	.78	.72	.65	.52	.40	MF-RHT650-0
	16	100	7.5	13.1	0.0094	—	0.022	14.0	23.5	5.1	MF-RHT750-0-ND	.81	.75	.68	.54	.42	MF-RHT750-0
3B	72	40	1.10	2.20	0.15	0.25	0.38	10.84	16.8	5.1	MF-RX110/72-0-ND	.34	.32	.29	.23	.19	MF-RX110/72-0
	72	40	1.35	2.70	0.12	0.19	0.30	12.26	18.3	5.1	MF-RX135/72-0-ND	.36	.33	.30	.24	.20	MF-RX135/72-0
	72	40	1.60	3.20	0.09	0.14	0.22	13.94	19.9	5.1	MF-RX160/72-0-ND	.38	.35	.32	.26	.20	MF-RX160/72-0
	72	40	1.85	3.70	0.08	0.12	0.19	15.18	21.2	5.1	MF-RX185/72-0-ND	.38	.35	.32	.26	.20	MF-RX185/72-0
	72	40	2.50	5.00	0.05	0.08	0.13	17.84	23.8	10.2	MF-RX250/72-0-ND	.42	.39	.35	.28	.22	MF-RX250/72-0
	72	40	3.00	6.00	0.04	0.06	0.10	20.67	26.7	10.2	MF-RX300/72-0-ND	.44	.40	.37	.29	.23	MF-RX300/72-0
	72	40	3.75	7.50	0.03	0.05	0.08	23.51	29.6	10.2	MF-RX375/72-0-ND	.44	.40	.37	.29	.23	MF-RX375/72-0
3C	16	100	13.0	24.0	0.0041	—	0.010	23.5	28.7	10.2	MF-RHT1300-0-ND	.90	.83	.75	.60	.45	MF-RHT1300-0
4	16	40	0.7	1.4	0.3	—	0.8	6.86	10.8	5.1	MF-RHT070-0-ND	.63	.58	.53	.42	.33	MF-RHT070-0
	16	100	2.0	3.8	0.045	—	0.110	9.4	14.0	5.1	MF-RHT200-0-ND	.69	.64	.58	.46	.36	MF-RHT200-0

Fig.	Max. Volt.	I Max. (Amps)	Rated Current @ 23°C (Amps)		Initial Resistance @ 23°C (Ω) RMinimum	Post-Trip Resistance	Dimensions – mm						Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Bourns Part No.
			Hold	Trip			A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)		1	10	100	Qty.	Pricing	
5A	60	40	0.30	0.60	0.90	4.80	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM030CT-ND	.62	5.33	49.88	2,000	299.25/M	MF-SM030-2
	60	40	0.50	1.00	0.35	1.40	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM050CT-ND	.62	5.33	49.88	2,000	299.25/M	MF-SM050-2
	30	80	0.75	1.50	0.23	1.00	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM075CT-ND	.62	5.33	49.88	2,000	299.25/M	MF-SM075-2
	30	80	1.10	2.20	0.12	0.48	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM100CT-ND	.62	5.33	49.88	2,000	299.25/M	MF-SM100-2
	33	40	1.10	2.20	0.12	0.41	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM100/33-2CT-ND	.56	4.80	44.00	2,000	320.00/M	MF-SM100/33-2
	15	100	1.25	2.50	0.07	0.25	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM125CT-ND	.49	4.20	38.50	2,000	275.00/M	MF-SM125-2
	6	100	2.60	5.20	0.025	0.075	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM260CT-ND	.49	4.20	38.50	2,000	280.00/M	MF-SM260-2
	6	100	3.00	6.00	0.015	0.048	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM300-2CT-ND	.63	5.40	49.50	2,000	360.00/M	MF-SM300-2
5B	33	40	1.50	3.00	0.06	0.23	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM150/33-2CT-ND	.65	5.59	52.28	1,500	312.56/M	MF-SM150/33-2
	15	100	1.50	3.00	0.06	0.25	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM150CT-ND	.49	4.20	38.50	1,500	280.00/M	MF-SM150-2
	15	100	2.00	4.00	0.045	0.125	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM200CT-ND	.53	4.50	41.25	1,500	300.00/M	MF-SM200-2
	15	100	2.50	5.00	0.024	0.085	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM250CT-ND	.67	5.73	53.62	1,500	321.10/M	MF-SM250-2
6	60	250	0.13	—	6.5	20.0	9.4	3.7	7.4	0.3	3.8	—	MF-SM013/250-2CT-ND	.78	6.72	61.60	1,500	448.00/M	MF-SM013/250-2
7A	30.0	10	0.12	0.29	1.35	8.50	3.40	1.80	1.10	0.25	—	—	MF-NSMF012-2CT-ND	.32	2.70	24.75	3,000	180.00/M	MF-NSMF012-2
	24.0	10	0.20	0.46	0.60	2.60	3.40	1.80	0.85	0.25	—	—	MF-NSMF020-2CT-ND	.32	2.70	24.75	3,000	180.00/M	MF-NSMF020-2
	6.0	100	0.35	0.75	0.30	1.20	3.40	1.80	0.85	0.25	—	—	MF-NSMF035-2CT-ND	.32	2.70	24.75	3,000	180.00/M	MF-NSMF035-2
	13.2	100	0.50	1.00	0.15	0.70	3.40	1.80	0.85	0.25	—	—	MF-NSMF050-2CT-ND	.46	3.90	36.54	3,000	219.45/M	MF-NSMF050-2
	6.0	100	0.75	1.50	0.10	0.40	3.40	1.80	0.70	0.25	—	—	MF-NSMF075-2CT-ND	.32	2.70	24.75	3,000	180.00/M	MF-NSMF075-2
	6.0	100	1.10	2.20	0.06	0.20	3.40	1.80	0.70	0.25	—	—	MF-NSMF110-2CT-ND	.47	3.99	37.35	3,000	223.25/M	MF-NSMF110-2
	6.0	100	1.50	3.00	0.03	0.13	3.40	1.80	0.70	0.25	—	—	MF-NSMF150-2CT-ND	.47	3.99	37.35	3,000	223.25/M	MF-NSMF150-2
	6.0	100	2.00	4.00	0.02	0.085	3.50	1.80	1.60	0.25	—	—	MF-NSMF200-2CT-ND	.60	5.10	46.75	3,000	340.00/M	MF-NSMF200-2
7B	60.0	40	0.10	0.30	0.70	15.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF010-2CT-ND	.48	4.10	38.41	1,500	230.85/M	MF-MSMF010-2
	60.0	40	0.14	0.34	0.40	6.50	4.73	3.41	1.10	0.30	—	—	MF-MSMF014-2CT-ND	.48	4.08	38.15	1,500	228.00/M	MF-MSMF014-2
	30.0	80	0.20	0.40	0.40	6.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF020-2CT-ND	.46	3.93	36.81	1,500	221.36/M	MF-MSMF020-2
	30.0	10	0.30	0.60	0.30	3.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF030-2CT-ND	.37	3.15	28.88	1,500	210.00/M	MF-MSMF030-2
	15.0	100	0.50	1.00	0.15	1.00	4.73	3.41	0.85	0.30	—	—	MF-MSMF050-2CT-ND	.46	3.93	36.81	2,000	221.35/M	MF-MSMF050-2
	13.2	100	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075-2CT-ND	.48	4.08	38.15	2,000	228.00/M	MF-MSMF075-2
	24.0	40	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075/24-2CT-ND	.47	4.05	37.13	2,000	270.00/M	MF-MSMF075/24-2
	6.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110-2CT-ND	.39	3.31	30.94	2,000	185.25/M	MF-MSMF110-2
	16.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110/16-2CT-ND	.47	4.05	37.13	2,000	270.00/M	MF-MSMF110/16-2
	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.85	0.30	—	—	MF-MSMF125-2CT-ND	.37	3.15	28.88	2,000	210.00/M	MF-MSMF125-2
	6.0	100	1.50	3.00	0.03	0.120	4.73	3.41	0.85	0.30	—	—	MF-MSMF150-2CT-ND	.48	4.08	38.15	2,000	228.00/M	MF-MSMF150-2
	8.0	100	1.60	2.80	0.035	0.099	4.73	3.41	0.85	0.30	—	—	MF-MSMF160-2CT-ND	.37	3.15	28.88	2,000	210.00/M	MF-MSMF160-2
	6.0	100	2.00	4.00	0.020	0.100	4.73	3.41	0.85	0.30	—	—	MF-MSMF200-2CT-ND	.52	4.47	41.88	2,000	251.75/M	MF-MSMF200-2
	16.0	100	2.50	5.00	0.015	0.100	4.73	3.41	2.00	0.30	—	—	MF-MSMF250/16-2CT-ND	.77	6.60	60.50	1,000	440.00	MF-MSMF250/16-2

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Max. Volt.	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Trip	Initial Resistance @ 23°C (Ω) RMinimum	Post-Trip Resistance	Dimensions – mm A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Bourns Part No.
7C	60	10	0.55	1.20	0.200	0.950	5.44	4.93	1.09	0.30	—	—	MF-SMDF050-2CT-ND	.70	6.01	56.28	6,000	311.15/M	MF-SMDF050-2
	15	40	1.50	3.00	0.070	0.175	5.44	4.93	1.09	0.30	—	—	MF-SMDF150-2CT-ND	.63	5.40	49.50	6,000	311.15/M	MF-SMDF150-2
7D	30	10	0.05	0.15	2.800	50.000	3.43	2.80	1.1	0.30	—	—	MF-USMF005-2CT-ND	.30	2.80	26.00	3,000	160.00/M	MF-USMF005-2
	30	10	0.10	0.30	0.800	15.000	3.43	2.80	1.1	0.30	—	—	MF-USMF010-2CT-ND	.48	4.10	38.41	3,000	230.85/M	MF-USMF010-2
	30	10	0.20	0.40	0.400	5.000	3.43	2.80	1.1	0.30	—	—	MF-USMF020-2CT-ND	.68	6.30	58.50	3,000	360.00/M	MF-USMF020-2
	6	40	0.35	0.75	0.200	1.300	3.43	2.80	0.85	0.30	—	—	MF-USMF035-2CT-ND	.30	2.80	26.00	3,000	160.00/M	MF-USMF035-2
	13.2	40	0.50	1.00	0.180	0.900	3.43	2.80	0.85	0.30	—	—	MF-USMF050-2CT-ND	.30	2.80	26.00	3,000	160.00/M	MF-USMF050-2
	6	40	0.75	1.50	0.070	0.450	3.43	2.80	0.85	0.30	—	—	MF-USMF075-2CT-ND	.33	3.00	29.28	3,000	160.00/M	MF-USMF075-2
	6	40	1.10	2.20	0.050	0.210	3.43	2.80	0.85	0.30	—	—	MF-USMF110-2CT-ND	.33	3.00	29.28	3,000	160.00/M	MF-USMF110-2
	6	40	1.50	3.00	0.030	0.110	3.43	2.80	0.85	0.30	—	—	MF-USMF150-2CT-ND	.79	6.75	65.88	3,000	360.00/M	MF-USMF150-2

‡ For Tape and Reel part number, change CT-ND to TR-ND.

NEW! Kits

MF-AUTOLAB-ND	Resettable Fuses for Automotive Applications	(5 each of 8 values, 40 total pieces)	**$44.20**
MF-DATAPORTLAB-ND	Resettable Fuses for Dataport Applications	(5 each of 8 values, 40 total pieces)	**$44.20**
MF-TELECOMLAB-ND	Resettable Fuses for Telecom Applications	(5 each of 8 values, 40 total pieces)	**$5.20**
MF-MSMFLAB-ND	1812 (4532 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	**$52.00**
MF-NSMFLAB-ND	1206 (3216 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	**$52.00**
MF-USMFLAB-ND	1210 (3225 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	**$52.00**
MF-SMLAB-ND	Surface Mount Models	(5 each of 9 values, 45 total pieces)	**$36.40**
MF-RLAB-H-ND	Radial Leaded Through-Hole Models	(5 each of 11 values, 55 total pieces)	**$39.78**
MF-RLAB-L-ND	Radial Leaded Through-Hole Models	(5 each of 12 values, 60 total pieces)	**$39.78**
MF-RXLAB-ND	Radial Leaded Through-Hole Models	(5 each of 7 values, 35 total pieces)	**$44.20**

PTC Resettable Fuses
MF-FSMF Series – 0603 Footprint

Features: • Compact design saves board space - 0603 footprint • Small size results in very fast time to react to fault events • Low profile **Applications:** • USB port protection • PC motherboards – Plug and Play protection • Mobile phones – Battery and port protection • PDAs/digital cameras

Digi-Reel® RoHS

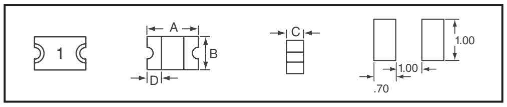

Model	Dimensions – Inches (mm) A Minimum	A Maximum	B Minimum	B Maximum	C Minimum	C Maximum	D Minimum
MF-FSMF020X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.012 (0.30)	0.026 (0.65)	0.008 (0.20)
MF-FSMF035X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.012 (0.30)	0.026 (0.65)	0.008 (0.20)
MF-FSMF050X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.026 (0.65)	0.039 (1.00)	0.008 (0.20)

Max. Voltage (V)	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Trip	Resistance Ω @ 23°C RMin.	R1Max.	Max. Time to Trip Amps @ 23°C	Seconds @ 23°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
9	40	0.20	0.50	0.550	3.500	1.00	0.60	MF-FSMF020X-2CT-ND	.42	.36	.33	MF-FSMF020X-2TR-ND	6,000	240.00/M	MF-FSMF020X-2
6	40	0.35	0.75	0.200	1.400	8.00	0.10	MF-FSMF035X-2CT-ND	.42	.36	.33	MF-FSMF035X-2TR-ND	6,000	240.00/M	MF-FSMF035X-2
6	40	0.50	1.00	0.100	0.800	8.00	0.10	MF-FSMF050X-2CT-ND	.42	.36	.33	MF-FSMF050X-2TR-ND	4,000	180.00/M	MF-FSMF050X-2

PTC Resettable Fuses
MF-PSMF Series – 0805 Footprint

Features: • Compact design saves board space - 0805 footprint • Small size allows fast reaction to fault events • Low profile **Applications:** • USB port protection – On the Go and 2.0 • PC motherboards – Plug and Play protection • Mobile phones – Battery and port protection • PDAs/digital cameras • Game console port protection

Digi-Reel® RoHS

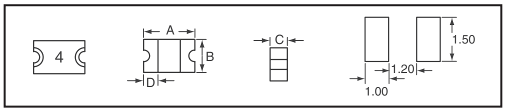

Model	Dimensions – Inches (mm) A Minimum	A Maximum	B Minimum	B Maximum	C Minimum	C Maximum	D Minimum
MF-PSMF035X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF050X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF075X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)
MF-PSMF110X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)

Max. Voltage (V)	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Trip	Resistance Ω @ 23°C RMin.	R1Max.	Max. Time to Trip Amps @ 23°C	Seconds @ 23°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Bourns Part No.
6	40	0.35	0.75	0.250	1.200	8.00	0.10	MF-PSMF035X-2CT-ND	.44	.38	.37	MF-PSMF035X-2TR-ND	200.00/M	MF-PSMF035X-2
6	40	0.50	1.00	0.150	0.900	8.00	0.10	MF-PSMF050X-2CT-ND	.40	.34	.33	MF-PSMF050X-2TR-ND	180.00/M	MF-PSMF050X-2
6	40	0.75	1.50	0.090	0.350	8.00	0.20	MF-PSMF075X-2CT-ND	.40	.34	.33	MF-PSMF075X-2TR-ND	180.00/M	MF-PSMF075X-2
6	40	1.10	2.20	0.060	0.210	8.00	0.30	MF-PSMF110X-2CT-ND	.40	.34	.33	MF-PSMF110X-2TR-ND	180.00/M	MF-PSMF110X-2

Telecom CPTC Resettable Fuses
CMF-RL and CMF-SD Series

Digi-Reel® RoHS

Features:
• Two resistance-matched PTCs in a ceramic housing • Aids compliance with: ITU-T K.20/21/45; Telcordia GR-1089-CORE; UL 60950, 3rd Ed. • Narrow resistance tolerance

Applications: Used as a secondary overcurrent protection device in:
• Customer Premise Equipment (CPE) • Central Office (CO) • Access equipment

Model	Dimensions – Inches (mm) A Maximum	B Maximum	C Maximum	D Nominal	E Nominal	F Nominal
CMF-RL35	0.386 (9.8)	0.197 (5.0)	0.531 (13.5)	0.118 - 0.138 (3.0 - 3.5)	0.024 ± 0.019 (0.6 ± 0.05)	0.200 ± 0.012 (5.08 ± 0.3)
CMF-RL50A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5) – Minimum	0.024 ± 0.019 (0.6 ± 0.05)	0.197 ± 0.008 (5.0 ± 0.2)
CMF-RL55A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5)	0.024 ± 0.019 (0.6 ± 0.05)	0.197 ± 0.008 (5.0 ± 0.2)

Model	Dimensions – Inches (mm) A Maximum	B Maximum	C Maximum	D Nominal	E Nominal	F Maximum
CMF-SD25	0.354 (9.00)	0.425 (10.80)	0.402 (10.20)	0.192 - 0.208 (4.88 - 5.28)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)
CMF-SD35A	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128 - 0.144 (3.25 - 3.65)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)
CMF-SD50A-10	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128 - 0.144 (3.25 - 3.65)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)

Fig. 1 – CMF-RL Series

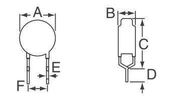

Fig. 2 – CMF-SD Series

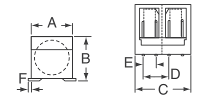

Fig.	Rated Voltage (V)	Rated Resistance Ω	Tolerance	Rated Current @ 25°C (Amps) Hold	Trip	Time to Trip @ Imax/ 230VAC	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
1	230	35	±20%	0.075	0.150	≤0.15 Sec.	CMF-RL35-0-ND	.57	.53	.48	—	—	—	CMF-RL35-0
	230	50	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL50A-0-ND	.57	.53	.48	—	—	—	CMF-RL50A-0
	230	55	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL55A-0-ND	.57	.53	.48	—	—	—	CMF-RL55A-0
2	230	25	±20%	0.130	0.260	<0.3 Sec.	CMF-SD25-2CT-ND†	1.32	1.17	1.14	CMF-SD25-2TR-ND	400	202.00	CMF-SD25-2
	230	35	±20%	0.100	0.200	<0.2 Sec.	CMF-SD35A-2CT-ND†	1.32	1.17	1.14	CMF-SD35A-2TR-ND	500	248.00	CMF-SD35A-2
	230	50	±10%	0.090	0.190	<0.1 Sec.	CMF-SD50A-10-2CT-ND†	1.45	1.28	1.25	CMF-SD50A-10-2TR-ND	500	272.00	CMF-SD50A-10-2

† Cut Tape

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

BOURNS® Multifuse

NEW! Telecom PTC Resettable Fuses

MF-SD/250 Series

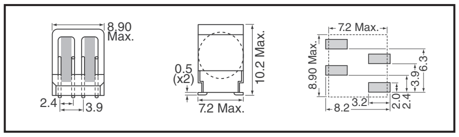

Features: • Tip and ring line protection with two devices in one package • Surface mount device • High voltage surge capabilities • Assists in meeting ITU-T K.20/K.21/K.45 specifications as well as Telcordia GR-1089 intra-building

Applications: Used as a secondary overcurrent protection device in: • Customer Premise Equipment (CPE) • Central Office (CO) • Subscriber Line Interface Cards (SLIC)

Max. Operating Voltage	I Max.		Rated Current @ 23°C (Amps)		Resistance Ω @ 23°C		Nominal Time to Trip		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 400	Bourns Part No.
	Volts (V)	Amps (A)	Hold	Trip	Min.	Max.	Amps @ 23°C	Seconds @ 23°C		1	10	100			
60	250	3.0	0.13	0.26	2.0	7.0	1	2.0	MF-SD013/250-2CT-ND	1.75	1.13	.87	MF-SD013/250-2TR-ND	310.00	MF-SD013/250-2

ESD Protection ESD Suppressors

MLC and MLU Series

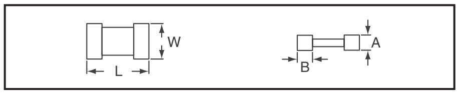

Package	Dimensions – mm			
	L	W	A	B
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.50	0.30

The ChipGuard® MLU and MLC Series has been specifically designed to protect sensitive electronic components from electrostatic discharge damage. The MLU and MLC family has been designed to protect equipment to IEC61000-4-2, Level 4(±8kV Contact/ ±15kV Air Discharge) ESD specifications targeted for high speed USB 2.0, HDMI, DVI or IEEE1394 applications. The ChipGuard MLU and MLC Series has been manufactured to provide low 0.05pF and 0.5pF capacitance and leakage currents less than 5nA with excellent clamp qualities, making the family almost transparent under normal working conditions.

Specifications: • Typical Clamping Voltage: 25 • Maximum Leakage Current @ Maximum VDC: 5 • Typical Trigger Voltage: 250 • Maximum Response Time: 1nS

Package	Typ. Cont. Working VDC	Max. Cap. @ 1VRMS 1MHz	Operating Temperature (°C)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Bourns Part No.
					1	10	100		Qty.	Pricing	
MLC Series											
0402	3.3	0.5	-40 ~ 85	CG0402MLC-3.3LGCT-ND	.25	1.56	11.70	CG0402MLC-3.3LGTR-ND	10,000	94.00/M	CG0402MLC-3.3LG
0603	3.3	0.5	-40 ~ 85	CG0603MLC-3.3LECT-ND	.23	1.44	10.80	CG0603MLC-3.3LETR-ND	5,000	90.00/M	CG0603MLC-3.3LE
0402	5	0.5	-40 ~ 85	CG0402MLC-05LGCT-ND	.25	1.56	11.70	CG0402MLC-05LGTR-ND	10,000	94.00/M	CG0402MLC-05LG
0603	5	0.5	-40 ~ 85	CG0603MLC-05LECT-ND	.23	1.44	10.80	CG0603MLC-05LETR-ND	5,000	90.00/M	CG0603MLC-05LE
0402	12	0.5	-40 ~ 85	CG0402MLC-12LGCT-ND	.25	1.56	11.70	CG0402MLC-12LGTR-ND	10,000	94.00/M	CG0402MLC-12LG
0603	12	0.5	-40 ~ 85	CG0603MLC-12LECT-ND	.23	1.44	10.80	CG0603MLC-12LETR-ND	5,000	90.00/M	CG0603MLC-12LE
MLU Series											
0402	3.3	0.05	-40 ~ 125	CG0402MLU-3.3GCT-ND	.38	2.40	18.00	CG0402MLU-3.3GTR-ND	10,000	145.00/M	CG0402MLU-3.3G
0603	3.3	0.05	-40 ~ 125	CG0603MLU-3.3ECT-ND	.34	2.16	16.20	CG0603MLU-3.3ETR-ND	5,000	135.00/M	CG0603MLU-3.3E
0402	5	0.05	-40 ~ 125	CG0402MLU-05GCT-ND	.38	2.40	18.00	CG0402MLU-05GTR-ND	10,000	145.00/M	CG0402MLU-05G
0603	5	0.05	-40 ~ 125	CG0603MLU-05ECT-ND	.34	2.16	16.20	CG0603MLU-05ETR-ND	5,000	135.00/M	CG0603MLU-05E
0402	12	0.05	-40 ~ 125	CG0402MLU-12GCT-ND	.38	2.40	18.00	CG0402MLU-12GTR-ND	10,000	145.00/M	CG0402MLU-12G
0603	12	0.05	-40 ~ 125	CG0603MLU-12ECT-ND	.34	2.16	16.20	CG0603MLU-12ETR-ND	5,000	135.00/M	CG0603MLU-12E
0402	24	0.05	-40 ~ 125	CG0402MLU-24GCT-ND	.38	2.40	18.00	CG0402MLU-24GTR-ND	10,000	145.00/M	CG0402MLU-24G
0603	24	0.05	-40 ~ 125	CG0603MLU-24ECT-ND	.34	2.16	16.20	CG0603MLU-24ETR-ND	5,000	135.00/M	CG0603MLU-24E

BOURNS®

SinglFuse™ Thin Film Chip Fuses

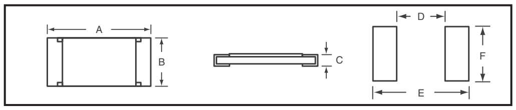

Features: • Single blow fuse for overcurrent protection • UL Certified • Halogen Free

Amp Rating	Voltage Rating	Dimensions — mm						Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Bourns Part No.
		A	B	C	D	E	F		1	10	100		Qty.	Pricing	
Fast-Acting Fuses															
SF0402F Series															
0.50	24	1.0	0.52	0.35	0.381	1.55	0.558	SF-0402F050-2CT-ND	.68	.44	.33	SF-0402F050-2TR-ND	10,000	360.00/M	SF-0402F050-2
2.00	24	1.0	0.52	0.35	0.381	1.55	0.558	SF-0402F200-2CT-ND	.68	.44	.33	SF-0402F200-2TR-ND	10,000	360.00/M	SF-0402F200-2
SF0603F Series															
0.50	50	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F050-2CT-ND	.57	.36	.27	SF-0603F050-2TR-ND	5,000	300.00/M	SF-0603F050-2
1.00	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F100-2CT-ND	.57	.36	.27	SF-0603F100-2TR-ND	5,000	300.00/M	SF-0603F100-2
1.50	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F150-2CT-ND	.57	.36	.27	SF-0603F150-2TR-ND	5,000	300.00/M	SF-0603F150-2
2.00	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F200-2CT-ND	.57	.36	.27	SF-0603F200-2TR-ND	5,000	300.00/M	SF-0603F200-2
2.50	24	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F250-2CT-ND	.57	.36	.27	SF-0603F250-2TR-ND	5,000	300.00/M	SF-0603F250-2
3.00	24	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F300-2CT-ND	.57	.36	.27	SF-0603F300-2TR-ND	5,000	300.00/M	SF-0603F300-2
3.15	24	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F315-2CT-ND	.57	.36	.27	SF-0603F315-2TR-ND	5,000	300.00/M	SF-0603F315-2
5.00	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603F500-2CT-ND	.57	.36	.27	SF-0603F500-2TR-ND	5,000	300.00/M	SF-0603F500-2
SF1206F Series															
0.50	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F050-2CT-ND	.65	.41	.31	SF-1206F050-2TR-ND	5,000	340.00/M	SF-1206F050-2
0.80	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F080-2CT-ND	.65	.41	.31	SF-1206F080-2TR-ND	5,000	340.00/M	SF-1206F080-2
1.00	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F100-2CT-ND	.65	.41	.31	SF-1206F100-2TR-ND	5,000	340.00/M	SF-1206F100-2
1.25	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F125-2CT-ND	.65	.41	.31	SF-1206F125-2TR-ND	5,000	340.00/M	SF-1206F125-2
1.50	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F150-2CT-ND	.65	.41	.31	SF-1206F150-2TR-ND	5,000	340.00/M	SF-1206F150-2
2.00	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F200-2CT-ND	.65	.41	.31	SF-1206F200-2TR-ND	5,000	340.00/M	SF-1206F200-2
2.50	32	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F250-2CT-ND	.65	.41	.31	SF-1206F250-2TR-ND	5,000	340.00/M	SF-1206F250-2
3.00	32	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F300-2CT-ND	.80	.47	.34	SF-1206F300-2TR-ND	5,000	242.00/M	SF-1206F300-2
4.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F400-2CT-ND	.65	.41	.34	SF-1206F400-2TR-ND	5,000	255.00/M	SF-1206F400-2
5.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F500-2CT-ND	.80	.48	.34	SF-1206F500-2TR-ND	5,000	242.00/M	SF-1206F500-2
7.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206F700-2CT-ND	.65	.41	.31	SF-1206F700-2TR-ND	5,000	340.00/M	SF-1206F700-2
Slow Blow Fuses															
SF0402S Series															
2.00	24	1.0	0.52	0.35	0.381	1.55	0.558	SF-0402S200-2CT-ND	.72	.46	.35	SF-0402S200-2TR-ND	10,000	360.00/M	SF-0402S200-2
SF0603S Series															
1.25	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603S125-2CT-ND	.61	.39	.29	SF-0603S125-2TR-ND	5,000	320.00/M	SF-0603S125-2
1.60	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603S160-2CT-ND	.61	.39	.29	SF-0603S160-2TR-ND	5,000	320.00/M	SF-0603S160-2
2.00	32	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603S200-2CT-ND	.61	.39	.29	SF-0603S200-2TR-ND	5,000	320.00/M	SF-0603S200-2
2.50	24	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603S250-2CT-ND	.61	.39	.29	SF-0603S250-2TR-ND	5,000	320.00/M	SF-0603S250-2
3.00	24	1.6	0.8	0.45	1.02	2.54	1.09	SF-0603S300-2CT-ND	.61	.39	.29	SF-0603S300-2TR-ND	5,000	320.00/M	SF-0603S300-2
SF1206S Series															
0.50	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S050-2CT-ND	.68	.44	.33	SF-1206S050-2TR-ND	5,000	270.00/M	SF-1206S050-2
1.00	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S100-2CT-ND	.68	.44	.33	SF-1206S100-2TR-ND	5,000	270.00/M	SF-1206S100-2
1.50	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S150-2CT-ND	.68	.44	.33	SF-1206S150-2TR-ND	5,000	270.00/M	SF-1206S150-2
2.00	63	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S200-2CT-ND	.68	.44	.33	SF-1206S200-2TR-ND	5,000	270.00/M	SF-1206S200-2
2.50	32	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S250-2CT-ND	.68	.44	.42	SF-1206S250-2TR-ND	5,000	270.00/M	SF-1206S250-2
3.00	32	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S300-2CT-ND	.68	.44	.33	SF-1206S300-2TR-ND	5,000	270.00/M	SF-1206S300-2
4.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S400-2CT-ND	.68	.44	.33	SF-1206S400-2TR-ND	5,000	270.00/M	SF-1206S400-2
5.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S500-2CT-ND	.68	.44	.33	SF-1206S500-2TR-ND	5,000	270.00/M	SF-1206S500-2
7.00	24	3.1	1.55	0.6	1.27	3.81	2.03	SF-1206S700-2CT-ND	.68	.44	.33	SF-1206S700-2TR-ND	5,000	270.00/M	SF-1206S700-2

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMT PTC Resettable Circuit Protection

Physical Specifications: Lead Material: Tin Plated Copper

Agency Approval: UL Recognized (E305051). See datasheet for select TÜV approval.

Temperature Range: -40°C ~ 85°C

Parameter Definitions (Electrical characteristics tested at 23°C)	
IH	Hold current-maximum current at which the device will not trip in still air
IT	Trip current-minimum current at which the device will always trip in still air
Imax.	Maximum fault current device can withstand without damage at rated voltage (Vmax.)
Vmax.	Maximum voltage device can withstand without damage at its rated current
Rmin.	Minimum device resistance
Rmax.	Maximum device resistance
R1max.	Maximum device resistance, 1 hour after initial device trip

Fig. 1

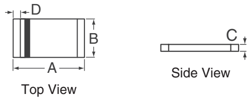

Fig. 2 ***NEW!***

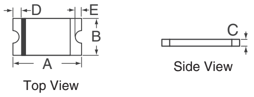

A ***NEW!***

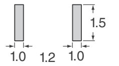

0805 and 1206 PCB Layout

B ***NEW!***

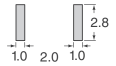

1210 PCB Layout

C

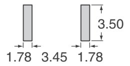

1812 PCB Layout

D

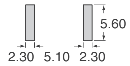

2920 PCB Layout

Fig.	Rated Voltage (Vmax., Vdc)	Rated Current (23°C)		Maximum Current (Imax.) (A)	Resistance Tolerance			Dimensions - mm					Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Bel Fuse Part No.
		Hold (IH) (A)	Trip (IT) (A)		Rmin. (Ω)	Rmax. (Ω)	R1max. (Ω)	A Max.	B Max.	C Max.	D Min.	E Max.		1	10	100	Qty.	Pricing	
NEW! 0805 Chip, 0ZCE Series Surface Mount NEW!																			
1A	15	0.10	0.30	100	0.70	3.50	6.00	2.30	1.50	1.00	0.60	—	507-1516-1-ND	.30	2.70	19.13	4,000	90.00/M	0ZCE0010FF2G
	9	0.20	0.50	100	0.40	2.00	3.50	2.30	1.50	1.00	0.60	—	507-1517-1-ND	.30	2.70	19.13	4,000	90.00/M	0ZCE0020FF2G
	6	0.35	0.75	100	0.25	0.75	1.20	2.30	1.50	0.75	0.60	—	507-1518-1-ND	.30	2.70	19.13	4,000	90.00/M	0ZCE0035FF2G
2A	6	0.50	1.00	100	0.15	0.50	0.85	2.20	1.50	1.25	0.60	0.45	507-1519-1-ND	.39	3.48	24.65	3,000	116.00/M	0ZCE0050FF2E
	6	0.75	1.50	40	0.09	0.22	0.35	2.20	1.50	1.25	0.60	0.45	507-1520-1-ND	.39	3.48	24.65	3,000	116.00/M	0ZCE0075FF2E
	6	1.00	1.95	40	0.06	0.14	0.21	2.20	1.50	1.80	0.60	0.45	507-1521-1-ND	.61	5.40	38.25	3,000	180.00/M	0ZCE0100FF2E
NEW! 1206 Chip, 0ZCA Series Surface Mount NEW!																			
1A	60	0.05	0.15	10	3.6	15.0	50.0	3.50	1.80	0.85	0.8	—	507-1476-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCA0005FF2E
	60	0.10	0.25	10	1.6	4.6	15.0	3.50	1.80	0.85	0.8	—	507-1477-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCA0010FF2E
	30	0.20	0.40	10	0.60	1.25	2.50	3.50	1.80	0.75	0.8	—	507-1478-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCA0020FF2E
	16	0.35	0.75	40	0.30	0.60	1.20	3.50	1.80	0.75	0.8	—	507-1479-1-ND	.28	2.52	17.85	4,000	84.00/M	0ZCA0035FF2G
	8	0.50	1.00	40	0.15	0.35	0.70	3.50	1.80	0.55	0.8	—	507-1480-1-ND	.28	2.52	17.85	4,000	84.00/M	0ZCA0050FF2G
2A	6	0.75	1.50	100	0.09	0.19	0.29	3.50	1.80	1.25	0.8	0.45	507-1481-1-ND	.32	2.88	20.40	3,000	96.00/M	0ZCA0075FF2G
	6	1.00	1.80	100	0.055	0.133	0.210	3.50	1.80	1.00	0.8	0.45	507-1482-1-ND	.37	3.30	23.38	3,000	110.00/M	0ZCA0100FF2E
	6	1.10	2.20	100	0.040	0.110	0.180	3.50	1.80	1.00	0.8	0.45	507-1483-1-ND	.37	3.30	23.38	3,000	110.00/M	0ZCA0110FF2E
	6	1.50	3.00	100	0.040	0.075	0.120	3.50	1.80	1.40	0.8	0.45	507-1484-1-ND	.48	4.26	30.18	2,000	142.00/M	0ZCA0150FF2C
NEW! 1210 Chip, 0ZCB Series Surface Mount NEW!																			
1B	60	0.05	0.15	10	3.6	15.0	50.0	3.43	2.80	1.15	0.75	—	507-1485-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCB0005FF2E
	60	0.10	0.25	10	1.6	6.0	15.0	3.43	2.80	1.15	0.75	—	507-1486-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCB0010FF2E
	30	0.20	0.40	10	0.80	2.50	5.00	3.43	2.80	0.85	0.75	—	507-1487-1-ND	.28	2.52	17.85	3,000	84.00/M	0ZCB0020FF2E
	16	0.35	0.70	40	0.32	0.65	1.30	3.43	2.80	0.80	0.75	—	507-1488-1-ND	.28	2.52	17.85	4,000	84.00/M	0ZCB0035FF2G
	16	0.50	1.00	40	0.25	0.45	0.90	3.43	2.80	0.75	0.75	—	507-1489-1-ND	.28	2.52	17.85	4,000	84.00/M	0ZCB0050FF2G
	8	0.75	1.50	40	0.13	0.20	0.40	3.43	2.80	0.70	0.75	—	507-1490-1-ND	.28	2.52	17.85	4,000	84.00/M	0ZCB0075FF2G
2B	6	1.10	2.20	100	0.06	0.14	0.21	3.43	2.80	1.00	0.75	0.45	507-1491-1-ND	.37	3.30	23.38	3,000	110.00/M	0ZCB0110FF2E
	6	1.50	3.00	100	0.04	0.07	0.11	3.43	2.80	0.90	0.75	0.45	507-1492-1-ND	.37	3.30	23.38	3,000	110.00/M	0ZCB0150FF2E
	6	1.75	4.00	100	0.02	0.05	0.08	3.43	2.80	1.40	0.75	0.45	507-1493-1-ND	.53	4.68	33.15	4,000	156.00/M	0ZCB0175FF2E
	6	2.00	4.00	100	0.015	0.045	0.070	3.43	2.80	1.40	0.75	0.45	507-1494-1-ND	.53	4.68	33.15	3,000	156.00/M	0ZCB0200FF2E
1812 Chip, 0ZCC Series Surface Mount																			
1C	60	0.14	0.30	10	1.20	2.50	6.50	4.73	3.41	0.90	0.30	—	507-1495-1-ND ***NEW!***	.26	2.28	16.15	2,000	76.00/M	0ZCC0014FF2C
	30	0.20	0.40	10	0.800	2.573	5.000	4.73	3.41	0.90	0.30	—	507-1496-1-ND ***NEW!***	.26	2.28	16.15	2,000	76.00/M	0ZCC0020FF2C
	16	0.35	0.70	40	0.32	0.80	1.50	4.73	3.41	0.90	0.30	—	507-1497-1-ND ***NEW!***	.26	2.28	16.15	2,000	76.00/M	0ZCC0035FF2C
	16	0.50	1.00	40	0.15	0.57	1.00	4.73	3.41	0.90	0.30	—	507-1361-1-ND	.58	5.16	36.55	2,000	151.00/M	0ZCC0050FF2C
	16	0.75	1.50	40	0.11	0.27	0.45	4.73	3.41	0.90	0.30	—	507-1362-1-ND	.58	5.16	36.55	2,000	151.00/M	0ZCC0075FF2C
	16	1.10	1.95	40	0.04	0.12	0.18	4.73	3.41	0.90	0.30	—	507-1500-1-ND ***NEW!***	.33	2.94	20.83	2,000	98.00/M	0ZCC0110AF2C
	6	1.10	2.20	40	0.04	0.11	0.21	4.73	3.41	0.55	0.30	—	507-1363-1-ND	.58	5.16	36.55	2,000	151.00/M	0ZCC0110FF2C
	6	1.25	2.50	40	0.05	0.08	0.14	4.73	3.41	0.55	0.30	—	507-1502-1-ND ***NEW!***	.26	2.28	16.15	2,000	76.00/M	0ZCC0125FF2C
	6	1.50	3.00	40	0.04	0.07	0.11	4.73	3.41	0.55	0.30	—	507-1503-1-ND ***NEW!***	.33	2.94	20.83	2,000	98.00/M	0ZCC0150FF2C
	6	1.60	3.20	40	0.030	0.066	0.100	4.73	3.41	0.90	0.30	—	507-1506-1-ND ***NEW!***	.33	2.94	20.83	2,000	98.00/M	0ZCC0160FF2C
2C	33	0.75	1.50	40	0.11	0.25	0.40	4.73	3.41	1.55	0.25	0.65	507-1499-1-ND ***NEW!***	.38	3.36	23.80	1,500	112.00/M	0ZCC0075BF2B
	24	0.75	1.50	40	0.11	0.20	0.29	4.73	3.41	1.55	0.25	0.65	507-1498-1-ND ***NEW!***	.38	3.36	23.80	1,500	112.00/M	0ZCC0075AF2B
	24	1.10	2.20	100	0.06	0.13	0.20	4.73	3.41	1.30	0.25	0.65	507-1501-1-ND ***NEW!***	.38	3.36	23.80	1,500	112.00/M	0ZCC0110BF2B
	24	1.50	3.00	100	0.040	0.070	0.120	4.73	3.41	1.55	0.25	0.65	507-1505-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0150BF2C
	16	1.60	3.20	100	0.030	0.060	0.100	4.73	3.41	1.35	0.25	0.65	507-1508-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0160BF2C
	16	2.60	5.00	100	0.015	0.030	0.050	4.73	3.41	1.55	0.25	0.65	507-1512-1-ND ***NEW!***	.51	4.56	32.30	1,500	152.00/M	0ZCC0260BF2B
	13.2	2.60	5.00	100	0.015	0.030	0.050	4.73	3.41	1.55	0.25	0.65	507-1511-1-ND ***NEW!***	.51	4.56	32.30	1,500	152.00/M	0ZCC0260AF2B
	12	1.50	3.00	100	0.040	0.075	0.110	4.73	3.41	1.10	0.25	0.65	507-1504-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0150AF2C
	12	1.60	3.20	100	0.030	0.060	0.100	4.73	3.41	1.35	0.25	0.65	507-1507-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0160AF2C
	8	2.00	3.50	100	0.020	0.045	0.070	4.73	3.41	1.20	0.25	0.65	507-1509-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0200FF2C
	6	2.60	5.00	100	0.015	0.031	0.047	4.73	3.41	1.20	0.25	0.65	507-1510-1-ND ***NEW!***	.38	3.36	23.80	2,000	112.00/M	0ZCC0260FF2C
	6	3.00	5.00	100	0.012	0.025	0.040	4.73	3.41	1.55	0.25	0.65	507-1513-1-ND ***NEW!***	.51	4.56	32.30	1,500	152.00/M	0ZCC0300FF2B
2920 Chip, 0ZCD Series Surface Mount																			
1D	60	0.30	0.60	10	1.000	2.000	4.800	7.98	5.44	1.15	0.35	—	507-1364-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0030FF2C
	60	0.50	1.00	10	0.300	0.700	1.400	7.98	5.44	1.15	0.35	—	507-1365-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0050FF2C
	33	0.75	1.50	40	0.180	0.310	1.000	7.98	5.44	1.15	0.35	—	507-1366-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0075FF2C
	33	1.10	2.20	40	0.090	0.170	0.410	7.98	5.44	1.00	0.35	—	507-1367-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0110FF2C
	33	1.25	2.50	40	0.050	0.131	0.250	7.98	5.44	0.90	0.35	—	507-1368-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0125FF2C
	33	1.50	3.00	40	0.050	0.108	0.230	7.98	5.44	0.90	0.35	—	507-1369-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0150FF2C
	33	1.85	3.70	40	0.040	0.076	0.150	7.98	5.44	0.90	0.35	—	507-1370-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0185FF2C
	16	2.00	4.00	40	0.035	0.065	0.120	7.98	5.44	0.90	0.35	—	507-1371-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0200FF2C
	16	2.50	5.00	40	0.025	0.041	0.085	7.98	5.44	0.90	0.35	—	507-1372-1-ND	.87	7.74	54.83	2,000	226.00/M	0ZCD0250FF2C
	6	2.60	5.20	40	0.020	0.037	0.075	7.98	5.44	0.90	0.35	—	507-1514-1-ND ***NEW!***	.50	4.44	31.45	2,000	148.00/M	0ZCD0260FF2C
	6	3.00	5.20	40	0.015	0.033	0.048	7.98	5.44	0.90	0.35	—	507-1515-1-ND ***NEW!***	.50	4.44	31.45	2,000	148.00/M	0ZCD0300FF2C

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PTC Resettable Circuit Protection

Physical Specifications: • Lead Material: Tin Plated Copper • Insulating Coating (radial leaded product only): Flame retardant yellow epoxy, meets UL-94-V-0

Agency Approval: UL Recognized (E305051). See datasheet for select TÜV approval.

Temperature Range: -40°C ~ 85°C

Parameter Definitions (Electrical characteristics tested at 23°C)	
IH	Hold current-maximum current at which the device will not trip in still air
IT	Trip current-maximum current at which the device will always trip in still air
Imax	Maximum fault current device can withstand without damage at rated voltage (Vmax)
Vmax	Maximum voltage device can withstand without damage at its rated current
Rmin	Minimum device resistance
Rmax	Maximum device resistance
R1max	Maximum device resistance, 1 hour after initial device trip

Fig. 1

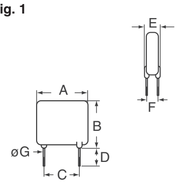

Fig. 2

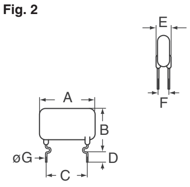

Fig. 3

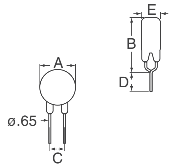

Fig. 4

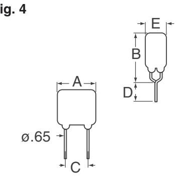

Fig. 5

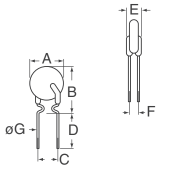

Fig. 6

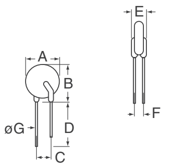

Fig.	Rated Voltage (VDCmax)	Rated Current (23°C)		Max. Current (Imax)	Resistance Tolerance			Dimensions - mm							Digi-Key Part No.	Pricing				Bel Fuse Part No.
		Hold (IH)	Trip (IT)		Rmin (Ω)	Rmax (Ω)	R1max (Ω)	A Max.	B Max.	C Typ.	D Min.	E Max.	F Typ.	G Lead Size		1	10	100	500	
0ZRA Series Radial Leaded																				
1	16	3	5.1	100	0.034	0.0530	0.105	7.1	11.0	5.1	7.6	3.0	1.2	0.81	507-1304-ND	.56	4.06	31.25	109.38	0ZRA0300FF1C
	16	4	6.8	100	0.020	0.0350	0.063	8.9	12.8	5.1	7.6	3.0	1.2	0.81	507-1305-ND	.61	4.39	33.75	118.13	0ZRA0400FF1E
	16	5	8.5	100	0.014	0.0210	0.044	10.4	14.3	5.1	7.6	3.0	1.2	0.81	507-1306-ND	.70	5.04	38.75	135.63	0ZRA0500FF1E
	16	6	10.2	100	0.009	0.0160	0.033	10.7	17.1	5.1	7.6	3.0	1.2	0.81	507-1307-ND	.74	5.36	41.25	144.38	0ZRA0600FF1E
	16	7	11.9	100	0.006	0.0130	0.021	11.2	19.7	5.1	7.6	3.0	1.2	0.81	507-1308-ND	.78	5.66	43.50	152.25	0ZRA0700FF1A
	16	8	13.6	100	0.005	0.0110	0.018	12.7	20.9	5.1	7.6	3.0	1.2	0.81	507-1309-ND	.88	6.34	48.75	170.63	0ZRA0800FF1A
	16	9	15.3	100	0.004	0.0085	0.015	14.0	21.7	5.1	7.6	3.0	1.2	0.81	507-1310-ND	.90	6.50	50.00	175.00	0ZRA0900FF1A
	16	10	17.0	100	0.003	0.0075	0.012	16.5	24.1	5.1	7.6	3.0	1.2	0.81	507-1311-ND	.94	6.76	52.00	182.00	0ZRA1000FF1A
	16	11	18.7	100	0.003	0.0065	0.010	17.5	26.0	5.1	7.6	3.0	1.2	0.81	507-1312-ND	.97	7.02	54.00	189.00	0ZRA1100FF1A
	16	12	20.4	100	0.002	0.0055	0.009	17.5	28.0	10.2	7.6	3.6	1.4	1.00	507-1313-ND	1.12	8.06	62.00	217.00	0ZRA1200FF1A
	16	14	23.8	100	0.002	0.0045	0.008	27.9	27.9	10.2	7.6	3.6	1.4	1.00	507-1314-ND	1.30	9.36	72.00	252.00	0ZRA1400FF1A
0ZRB Series Radial Leaded																				
2	30	0.90	1.8	40	0.07	0.160	0.22	7.4	12.2	5.1	7.6	3	0.9	0.51	507-1315-ND	.45	3.22	24.75	86.63	0ZRB0090FF1C
	30	1.10	2.2	40	0.05	0.140	0.17	7.4	14.2	5.1	7.6	3	0.9	0.51	507-1316-ND	.47	3.41	26.25	91.88	0ZRB0110FF1C
	30	1.35	2.7	40	0.04	0.095	0.13	8.9	13.5	5.1	7.6	3	0.9	0.51	507-1317-ND	.50	3.64	28.00	98.00	0ZRB0135FF1E
	30	1.60	3.2	40	0.03	0.080	0.11	8.9	15.2	5.1	7.6	3	0.9	0.51	507-1318-ND	.52	3.74	28.75	100.63	0ZRB0160FF1E
	30	1.85	3.7	40	0.03	0.070	0.09	10.2	15.7	5.1	7.6	3	0.9	0.51	507-1319-ND	.54	3.90	30.00	105.00	0ZRB0185FF1E
	30	2.50	5.0	40	0.02	0.050	0.07	11.4	18.3	5.1	7.6	3	0.9	0.51	507-1320-ND	.61	4.39	33.75	118.13	0ZRB0250FF1E
1	30	3.00	6.0	40	0.02	0.050	0.08	11.4	17.3	5.1	7.6	3	1.2	0.81	507-1321-ND	.63	4.52	34.75	121.63	0ZRB0300FF1A
	30	4.00	8.0	40	0.01	0.035	0.05	14.0	20.1	5.1	7.6	3	1.2	0.81	507-1322-ND	.71	5.14	39.50	138.25	0ZRB0400FF1A
	30	5.00	10.0	40	0.01	0.022	0.05	14.0	24.9	10.2	7.6	3	1.2	0.81	507-1323-ND	.77	5.59	43.00	150.50	0ZRB0500FF1A
	30	6.00	12.0	40	0.005	0.018	0.04	16.5	24.9	10.2	7.6	3	1.2	0.81	507-1324-ND	.83	5.98	46.00	161.00	0ZRB0600FF1A
	30	7.00	14.0	40	0.005	0.015	0.03	19.1	26.7	10.2	7.6	3	1.2	0.81	507-1325-ND	.88	6.37	49.00	171.50	0ZRB0700FF1A
	30	8.00	16.0	40	0.005	0.012	0.02	21.6	29.2	10.2	7.6	3	1.2	0.81	507-1326-ND	.92	6.63	51.00	178.50	0ZRB0800FF1A
	30	9.00	18.0	40	0.005	0.011	0.02	24.1	29.7	10.2	7.6	3	1.2	0.81	507-1327-ND	.97	7.02	54.00	189.00	0ZRB0900FF1A
0ZRF Series Telecom Radial																				
3	60	0.08	0.16	3	14.0	22.00	33	5.8	9.6	5	4.7	4.6	—	—	507-1356-ND	.45	3.28	25.25	88.38	0ZRF0008FF1E
	60	0.11	0.22	3	5.0	11.00	16	6.8	9.9	5	4.7	4.6	—	—	507-1357-ND	.45	3.28	25.25	88.38	0ZRF0011FF1E
4	60	0.12	0.24	3	4.0	12.00	16	6.5	11.0	5	4.7	4.6	—	—	507-1358-ND	.45	3.28	25.25	88.38	0ZRF0012FF1E
	60	0.15	0.29	3	3.0	7.50	12	6.5	11.0	5	4.7	4.6	—	—	507-1359-ND	.45	3.28	25.25	88.38	0ZRF0015FF1E
	60	0.18	0.65	10	0.8	2.20	4	10.9	12.6	5	4.7	4.6	—	—	507-1360-ND	.51	3.71	28.50	99.75	0ZRF0018FF1A
0ZRC Series Rated Radial																				
5	90	0.10	0.20	40	2.50	6.000	7.50	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1328-ND	.40	2.89	22.25	77.88	0ZRC0010FF1E
	90	0.15	0.35	40	2.40	5.500	7.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1329-ND	.40	2.89	22.25	77.88	0ZRC0015FF1E
	90	0.17	0.34	40	2.00	3.720	8.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1330-ND	.40	2.89	22.25	77.88	0ZRC0017FF1E
	90	0.20	0.40	40	1.83	3.300	4.40	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1331-ND	.40	2.89	22.25	77.88	0ZRC0020FF1E
	90	0.25	0.50	40	1.25	2.280	3.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1332-ND	.40	2.89	22.25	77.88	0ZRC0025FF1E
	90	0.30	0.60	40	0.88	1.596	2.10	7.4	13.0	5.1	7.6	3.1	1.1	0.51	507-1333-ND	.43	3.09	23.75	83.13	0ZRC0030FF1E
	90	0.35	0.75	40	0.70	1.300	2.50	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1334-ND	.43	3.09	23.75	83.13	0ZRC0035FF1E
	90	0.40	0.80	40	0.55	1.032	1.29	7.6	13.5	5.1	7.6	3.1	1.1	0.51	507-1335-ND	.43	3.09	23.75	83.13	0ZRC0040FF1E
	90	0.50	1.00	40	0.50	0.770	1.17	7.9	13.7	5.1	7.6	3.1	1.1	0.51	507-1336-ND	.45	3.25	25.00	87.50	0ZRC0050FF1E
	90	0.55	1.20	40	0.40	0.720	1.50	9.7	14.0	5.1	7.6	3.1	1.1	0.51	507-1337-ND	.45	3.25	25.00	87.50	0ZRC0055FF1E
	90	0.65	1.30	40	0.31	0.520	0.72	9.7	14.5	5.1	7.6	3.1	1.1	0.51	507-1338-ND	.47	3.41	26.25	91.88	0ZRC0065FF1E
	90	0.75	1.50	40	0.25	0.400	0.60	10.4	15.2	5.1	7.6	3.1	1.1	0.51	507-1339-ND	.50	3.58	27.50	96.25	0ZRC0075FF1E
	90	0.90	1.80	40	0.20	0.330	0.47	11.7	15.8	5.1	7.6	3.1	1.1	0.51	507-1340-ND	.50	3.58	27.50	96.25	0ZRC0090FF1E
6	90	1.10	2.20	40	0.15	0.300	0.38	13.0	18.0	5.1	7.6	3.1	1.4	0.81	507-1341-ND	.54	3.90	30.00	105.00	0ZRC0110FF1A
	90	1.35	2.70	40	0.12	0.228	0.30	14.5	19.6	5.1	7.6	3.1	1.4	0.81	507-1342-ND	.57	4.13	31.75	111.13	0ZRC0135FF1A
	90	1.60	3.20	40	0.09	0.180	0.22	16.3	21.3	5.1	7.6	3.1	1.4	0.81	507-1343-ND	.59	4.23	32.50	113.75	0ZRC0160FF1A
	90	1.85	3.70	40	0.08	0.144	0.19	17.8	22.9	5.1	7.6	3.1	1.4	0.81	507-1344-ND	.63	4.55	35.00	122.50	0ZRC0185FF1A
	90	2.50	5.00	40	0.05	0.096	0.13	21.3	26.4	10.2	7.6	3.1	1.4	0.81	507-1345-ND	.70	5.07	39.00	136.50	0ZRC0250FF1A
	90	3.00	6.00	40	0.04	0.072	0.10	24.9	30.0	10.2	7.6	3.1	1.4	0.81	507-1346-ND	.76	5.46	42.00	147.00	0ZRC0300FF1A
	90	3.75	7.50	40	0.03	0.060	0.08	28.5	33.5	10.2	7.6	3.1	1.4	0.81	507-1347-ND	.79	5.72	44.00	154.00	0ZRC0375FF1A
0ZRM Series 120 VAC/VDC Line Voltage Radial																				
1	120	0.75	1.50	7.5	0.25	0.39	0.69	10.9	17	5.1	7.6	4.1	2.2	0.81	507-1402-ND	.75	5.40	41.50	145.25	0ZRM0075AF1E
	120	1.00	2.00	10	0.18	0.27	0.47	11.5	20.1	5.1	7.6	4.1	2.2	0.81	507-1404-ND	.97	7.02	54.00	189.00	0ZRM0100FF1E
	120	1.25	2.50	12.5	0.11	0.18	0.33	14	21.7	5.1	7.6	4.1	2.2	0.81	507-1406-ND	1.05	7.61	58.50	204.75	0ZRM0125FF1A
	120	1.35	2.70	13.5	0.11	0.17	0.30	16.3	21.7	5.1	7.6	4.1	2.2	0.81	507-1408-ND	1.10	7.96	61.25	214.38	0ZRM0135AF1A
	120	2.00	4.20	20	0.08	0.12	0.21	23.5	27.9	10.2	7.6	4.1	2.2	0.81	507-1411-ND	1.58	11.38	87.50	306.25	0ZRM0200FF1A
5	120	0.10	0.20	2	3.00	5.00	7.50	7.9	13	5.1	7.6	3.8	2.2	0.51	507-1393-ND	.60	4.36	33.50	117.25	0ZRM0010FF1E
	120	0.17	0.34	2	2.00	3.50	7.00	7.9	13	5.1	7.6	3.8	2.2	0.51	507-1394-ND	.60	4.36	33.50	117.25	0ZRM0017FF1E
	120	0.20	0.40	2	1.83	3.12	4.40	7.9	13	5.1	7.6	3.8	2.2	0.65	507-1395-ND	.60	4.36	33.50	117.25	0ZRM0020FF1E
	120	0.25	0.50	3	1.25	2.13	3.00	7.9	13	5.1	7.6	3.8	2.2	0.65	507-1396-ND	.60	4.36	33.50	117.25	0ZRM0025FF1E
	120	0.30	0.60	3	0.88	1.47	2.10	7.9	13	5.1	7.6	3.8	2.2	0.65	507-1397-ND	.60	4.36	33.50	117.25	0ZRM0030FF1E
	120	0.40	0.80	3	0.55	0.95	1.29	8.2	14.2	5.1	7.6	3.8	2.2	0.65	507-1398-ND	.65	4.71	36.25	126.88	0ZRM0040FF1E
	120	0.50	1.00	3	0.50	0.85	1.17	9.2	14.9	5.1	7.6	3.8	2.2	0.65	507-1399-ND	.68	4.88	37.50	131.25	0ZRM0050FF1E
	120	0.65	1.30	5	0.31	0.53	0.72	9.7	14.9	5.1	7.6	3.8	2.2	0.65	507-1400-ND	.70	5.07	39.00	136.50	0ZRM0065FF1E
	120	0.75	1.50	5	0.25	0.44	0.60	10.6	15.5	5.1	7.6	3.8	2.2	0.65	507-1401-ND	.72	5.23	40.25	140.88	0ZRM0075FF1E
	120	0.90	1.80	5	0.20	0.31	0.47	11.9	15.9	5.1	7.6	3.8	2.2	0.65	507-1403-ND	.90	6.50	50.00	175.00	0ZRM0090FF1E
6	120	1.10	2.20	8	0.15	0.28	0.38	13.3	18.3	5.1	7.6	4.1	2.2	0.81	507-1405-ND	.95	6.89	53.00	185.50	0ZRM0110FF1E
	120	1.35	2.70	10	0.12	0.21	0.30	15.5	20.6	5.1	7.6	4.1	2.2	0.81	507-1407-ND	1.08	7.77	59.75	209.13	0ZRM0135FF1A
	120	1.60	3.20	12	0.09	0.16	0.22	17.5	22.5	5.1	7.6	4.1	2.2	0.81	507-1409-ND	1.30	9.39	72.25	252.88	0ZRM0160FF1A
	120	1.85	3.70	12	0.08	0.13	0.19	19.9	24.9	5.1	7.6	4.1	2.2	0.81	507-1410-ND	1.47	10.63	81.75	286.13	0ZRM0185FF1A
	120	2.50	5.00	15	0.05	0.08	0.13	22.5	27.5	10.2	7.6	4.1	2.2	0.81	507-1412-ND	1.62	11.73	90.25	315.88	0ZRM0250FF1A
	120	3.00	6.00	17	0.04	0.07	0.10	25.5	30	10.2	7.6	4.1	2.2	0.81	507-1413-ND	1.75	12.64	97.25	340.38	0ZRM0300FF1A
	120	3.75	7.50	20	0.03	0.05	0.08	29.5	34	10.2	7.6	4.1	2.2	0.81	507-1414-ND	1.88	13.59	104.50	365.75	0ZRM0375FF1A
0ZRE Series 240 VAC/VDC Line Voltage Radial																				
6	240	0.05	0.12	1.0	18.50	31.00	65.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1348-ND	.50	3.58	27.50	96.25	0ZRE0005FF1C
	240	0.08	0.19	1.2	7.40	12.00	26.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1349-ND	.50	3.58	27.50	96.25	0ZRE0008FF1C
	240	0.12	0.30	1.2	3.00	6.50	12.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1350-ND	.50	3.58	27.50	96.25	0ZRE0012FF1C
	240	0.16	0.37	2.0	2.50	4.10	7.80	9.9	12.5	5.1	7.6	3.8	1.4	0.51	507-1351-ND	.54	3.90	30.00	105.00	0ZRE0016FF1C
1	240	0.25	0.56	3.5	1.30	2.10	3.80	9.6	17.4	5.1	7.6	3.8	1.4	0.65	507-1352-ND	.60	4.36	33.50	117.25	0ZRE0025FF1E
	240	0.33	0.74	4.5	0.83	1.24	2.60	11.4	16.5	5.1	7.6	3.8	1.4	0.65	507-1353-ND	.67	4.84	37.25	130.38	0ZRE0033FF1A
	240	0.40	0.90	5.5	0.60	0.97	1.90	11.5	19.5	5.1	7.6	3.8	1.4	0.65	507-1354-ND	.78	5.66	43.50	152.25	0ZRE0040FF1A
	240	0.55	1.25	7.0	0.45	0.73	1.45	14.0	21.7	5.1	7.6	4.1	1.4	0.81	507-1355-ND	.89	6.40	49.25	172.38	0ZRE0055FF1A

Littelfuse
Expertise Applied | Answers Delivered

Polyfuse® PTC Resettable Devices Surface Mount

PTC Resettable devices utilize a unique polymer-based, Positive Temperature Coefficient (PTC) material to protect electrical circuits against overcurrent conditions.

PTC Resettable Operation: In normal operation, the Littelfuse PTC has many conductive paths and a very low resistance. In an over-current condition, the temperature of the polymer material rises. This dramatically reduces the conductive paths resulting in an immediate rise in resistance. In this condition the device provides circuit protection by significantly limiting the flow of current. However, once the cause of the initial overcurrent condition is eliminated, the Littelfuse PTC cools down and resets to a low resistance value permitting the normal current flow to resume.

Specifications:

Electrical Definitions:

• **Ihold:** Hold Current: Maximum current device will pass without tripping in 20°C still air • **Itrip:** Trip Current: Minimum current at which the device will trip in 20°C still air • **Vmax:** Maximum voltage device can withstand without damage at rated current (Imax) • **Imax:** Maximum fault current device can withstand without damage at rated voltage (Vmax) • **Rmin:** Minimum resistance of device in initial (un-soldered) state • **R1max:** Maximum resistance of device at 20°C measured one hour after tripping or reflow soldering of 260°C for 20 seconds

Operating Temperature: -40°C ~ 85°C
Maximum Device Surface Temperature in Tripped State: 125°C

Devices are not intended to be used for continual, repeated tripping.

Note: *See data sheet for detailed Amperage Safety Approvals.*

CAUTION: *Operation beyond the specified ratings may result in damage and possible arcing and flame.*

0603L Series

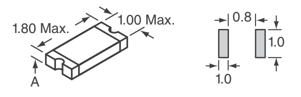

0805L Series

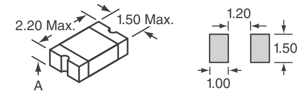

1206L Series

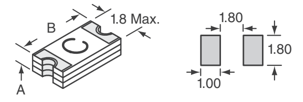

1210L Series

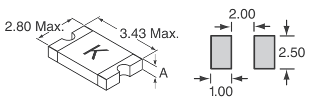

1812L Series

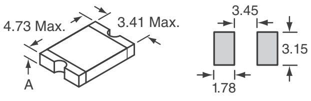

2920L Series

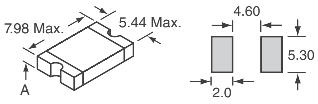

250S(A) Series — Horizontal *NEW!*

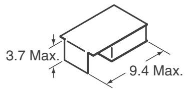

250S(B) Series — Vertical *NEW!*

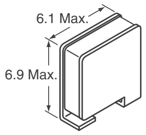

Series	Ihold (A)	Itrip (A)	Voltage Rating (V) Max.	Imax (A)	Maximum Time to Trip		Resistance (Ω)		Dimensions (mm) Max.		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
					Current (A)	Time (Sec.)	Rmin.	R1max.	A	B		1	10	100		Qty.	Pricing	
POLYFUSE® Lo Rho Series																		
0805L	1.10	1.80	6	50	8.00	0.30	0.030	0.130	0.75	—	F3365CT-ND	2.25	2.07	1.74	F3365TR-ND	4,000	822.00/M	0805L110SLYR
1206L	1.10	2.20	6	50	8.00	0.30	0.015	0.100	0.75	3.40	F3366CT-ND	2.06	1.90	1.60	F3366TR-ND	4,000	753.50/M	1206L110SLYR
	1.50	3.00	6	50	8.00	0.30	0.010	0.065	0.70	3.40	F3367CT-ND	2.06	1.90	1.60	F3367TR-ND	4,000	753.50/M	1206L150SLYR
1210L	2.00	4.00	6	50	8.00	3.00	0.005	0.024	0.70	—	F3368CT-ND	2.44	2.25	1.89	F3368TR-ND	4,000	890.50/M	1210L200SLYR
1812L	1.90	4.90	6	50	9.50	4.50	0.003	0.025	0.70	—	F3369CT-ND	4.20	3.87	3.25	F3369TR-ND	2,000	1624.00/M	1812L190SLPR
POLYFUSE® Series																		
0603L	0.10	0.30	15	40	0.50	1.00	0.900	6.000	0.75	—	F2900CT-ND	3.11	2.86	2.41	F2900TR-ND	4,000	1135.73/M	0603L010YR
	0.20	0.50	9	40	1.00	0.60	0.550	3.500	0.75	—	F2901CT-ND	3.11	2.86	2.41	F2901TR-ND	4,000	1135.73/M	0603L020YR
	0.25	0.55	9	40	8.00	0.08	0.500	3.000	0.75	—	F2902CT-ND	3.11	2.86	2.41	F2902TR-ND	4,000	1135.73/M	0603L025YR
	0.35	0.75	6	40	8.00	0.10	0.200	1.000	1.55	—	F2903CT-ND	3.11	2.86	2.41	F2903TR-ND	4,000	1135.73/M	0603L035YR
0805L	0.10	0.30	15	100	0.50	1.50	1.000	6.000	1.00	—	F2769CT-ND	2.70	2.49	2.10	F2769TR-ND	4,000	987.77/M	0805L010YR
	0.20	0.50	9	100	8.00	0.02	0.650	3.500	1.00	—	F2770CT-ND	2.70	2.49	2.10	F2770TR-ND	4,000	987.77/M	0805L020YR
	0.35	0.75	6	100	8.00	0.10	0.250	1.200	0.75	—	F2771CT-ND	2.70	2.49	2.10	F2771TR-ND	4,000	987.77/M	0805L035YR
	0.50	1.00	6	100	8.00	0.10	0.150	0.850	1.25	—	F2772CT-ND	3.03	2.79	2.35	F2772TR-ND	3,000	1105.59/M	0805L050WR
	0.75	1.50	6	40	8.00	0.20	0.090	0.350	1.25	—	F2773CT-ND	3.03	2.79	2.35	F2773TR-ND	3,000	1105.59/M	0805L075WR
	1.10	1.95	6	40	8.00	0.30	0.060	0.210	1.80	—	F2774CT-ND	3.35	3.09	2.59	F2774TR-ND	3,000	1223.41/M	0805L100WR
1206L	0.125	0.29	30	100	1.00	0.20	1.500	6.000	1.45	3.50	F2864CT-ND	.51	.48	.40	F2864TR-ND	3,000	187.69/M	1206L012WR
	0.16	0.37	30	100	1.00	0.30	1.200	4.500	1.45	3.50	F3132CT-ND	.51	.48	.40	F3132TR-ND	3,000	187.69/M	1206L016WR
	0.20	0.42	24	100	8.00	0.10	0.650	2.600	1.00	3.50	F2109CT-ND	.51	.48	.40	F2109TR-ND	4,000	187.69/M	1206L020YR
	0.25	0.50	16	100	8.00	0.08	0.550	2.300	1.00	3.50	F2110CT-ND	.51	.48	.40	F2110TR-ND	4,000	187.69/M	1206L025YR
	0.35	0.75	6	100	8.00	0.10	0.300	1.200	0.75	3.50	F2111CT-ND	.51	.48	.40	F2111TR-ND	4,000	187.69/M	1206L035YR
	0.50	1.00	6	100	8.00	0.10	0.150	0.700	0.75	3.50	F2112CT-ND	.51	.48	.40	F2112TR-ND	4,000	187.69/M	1206L050YR
	0.75	1.50	6	100	8.00	0.20	0.090	0.290	1.25	3.50	F3370CT-ND	.51	.48	.40	F3370TR-ND	4,000	187.69/M	1206L075THYR
	1.10	2.20	6	100	8.00	0.30	0.040	0.180	1.00	3.40	F3371CT-ND	.53	.49	.41	F3371TR-ND	4,000	191.80/M	1206L110THYR
	1.50	3.00	6	100	8.00	1.00	0.040	0.120	1.40	3.40	F3372CT-ND	.53	.49	.41	F3372TR-ND	3,000	191.80/M	1206L150THWR
1210L	0.05	0.15	30	10	0.25	1.50	3.600	50.00	1.25	—	F2999CT-ND	.54	.50	.42	F2999TR-ND	3,000	197.28/M	1210L005WR
	0.10	0.30	30	10	0.50	1.50	1.600	15.00	1.25	—	F3000CT-ND	.54	.50	.42	F3000TR-ND	3,000	197.28/M	1210L010WR
	0.20	0.40	30	10	8.00	0.02	0.800	5.000	1.00	—	F3350CT-ND	.54	.50	.42	F3350TR-ND	3,000	197.28/M	1210L020WR
	0.35	0.70	6	100	8.00	0.20	0.320	1.300	0.85	—	F2997CT-ND	.54	.50	.42	F2997TR-ND	4,000	197.28/M	1210L035YR
	0.50	1.00	13.2	100	8.00	0.10	0.250	0.900	0.85	—	F2998CT-ND	.54	.50	.42	F2998TR-ND	4,000	197.28/M	1210L050YR
	0.75	1.50	6	100	8.00	0.10	0.130	0.400	0.85	—	F3351CT-ND	.54	.50	.42	F3351TR-ND	4,000	197.28/M	1210L075YR
	1.10	2.20	6	100	8.00	0.30	0.060	0.210	1.30	—	F3373CT-ND	.54	.50	.42	F3373TR-ND	4,000	197.28/M	1210L110THYR
	1.50	3.00	6	100	8.00	0.50	0.040	0.110	1.80	—	F3374CT-ND	.54	.50	.42	F3374TR-ND	3,000	197.28/M	1210L150THWR
1812L	0.10	0.30	30	100	0.50	1.50	1.600	15.000	1.25	—	F3483CT-ND ***NEW!***	.52	.48	.41	F3483TR-ND ***NEW!***	1,500	200.10/M	1812L010DR
	0.14	0.34	60	10	1.50	0.15	1.500	6.000	1.95	—	F3353CT-ND	.52	.48	.41	F3353TR-ND	1,500	200.10/M	1812L014DR
	0.20	0.40	30	100	8.00	0.02	0.800	5.000	1.00	—	F3354CT-ND	.52	.48	.41	F3354TR-ND	2,000	200.10/M	1812L020PR
	0.50	1.00	15	100	8.00	0.15	0.150	1.000	0.75	—	F2150CT-ND	.52	.48	.41	F2150TR-ND	2,000	200.10/M	1812L050PR
	0.75	1.50	13.2	100	8.00	0.20	0.100	0.450	0.75	—	F2151CT-ND	.54	.50	.42	F2151TR-ND	2,000	207.35/M	1812L075PR
	0.75	1.50	24	100	8.00	0.20	0.110	0.290	1.55	—	F3484CT-ND ***NEW!***	.67	.62	.52	F3484TR-ND ***NEW!***	1,500	259.56/M	1812L075/24DR
	0.75	1.50	33	20	8.00	0.20	0.110	0.400	1.55	—	F3355CT-ND	.67	.62	.52	F3355TR-ND	1,500	259.56/M	1812L075/33DR
	1.10	1.95	16	100	8.00	0.30	0.060	0.180	1.25	—	F3485CT-ND ***NEW!***	.60	.56	.47	F3485TR-ND ***NEW!***	1,500	233.46/M	1812L110/16DR
	1.10	1.95	33	20	8.00	0.50	0.060	0.200	2.00	—	F3486CT-ND ***NEW!***	.60	.56	.47	F3486TR-ND ***NEW!***	1,000	233.45	1812L110/33MR
	1.10	2.20	6	100	8.00	0.30	0.040	0.210	0.71	—	F2152CT-ND	.44	.40	.34	F2152TR-ND	2,000	168.20/M	1812L110PR
	1.25	2.50	15	100	8.00	0.40	0.050	0.250	1.25	—	F2153CT-ND	.60	.56	.47	F2153TR-ND	1,500	233.46/M	1812L125DR
	1.50	3.00	8	100	8.00	0.30	0.040	0.110	0.71	—	F2154CT-ND	.54	.50	.42	F2154TR-ND	2,000	207.35/M	1812L150ZR
	1.50	3.00	24	20	8.00	1.50	0.040	0.120	1.80	—	F3487CT-ND ***NEW!***	.60	.56	.47	F3487TR-ND ***NEW!***	1,000	233.45	1812L150/24MR
	2.00	3.50	8	100	8.00	2.00	0.020	0.060	1.20	—	F3375CT-ND	.59	.55	.46	F3375TR-ND	2,000	227.65/M	1812L200THPR
	2.60	5.00	6	100	8.00	2.50	0.015	0.047	1.34	—	F3376CT-ND	.59	.55	.46	F3376TR-ND	1,500	227.66/M	1812L260THDR
2920L	0.30	0.60	60	10	1.50	3.00	1.200	4.800	1.25	—	F2865CT-ND	.70	.65	.55	F2865TR-ND	1,500	271.16/M	2920L030DR
	0.50	1.00	60	10	2.50	4.00	0.350	1.400	1.25	—	F2866CT-ND	.70	.65	.55	F2866TR-ND	1,500	271.16/M	2920L050DR
	0.75	1.50	30	40	8.00	0.30	0.350	1.000	1.25	—	F2867CT-ND	.70	.65	.55	F2867TR-ND	1,500	271.16/M	2920L075DR
	1.10	2.20	33	40	8.00	0.50	0.120	0.410	1.00	—	F2868CT-ND	.70	.65	.55	F2868TR-ND	2,000	271.15/M	2920L100PR
	1.25	2.50	15	40	8.00	2.00	0.070	0.250	1.00	—	F2869CT-ND	.70	.65	.55	F2869TR-ND	2,000	271.15/M	2920L125PR

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Polyfuse® PTC Resettable Devices Surface Mount *(Cont.)*

Series	Ihold (A)	Itrip (A)	Voltage Rating (V) Max.	Imax (A)	Maximum Time to Trip		Resistance (Ω)		Dimensions (mm) Max.		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Littelfuse Part No.
					Current (A)	Time (Sec.)	Rmin.	R1max.	A	B		1	10	100		Qty.	Pricing	
2920L	1.50	3.00	33	40	8.00	2.00	0.080	0.230	1.25	—	F2870CT-ND	.70	.65	.55	F2870TR-ND	1,500	271.16/M	2920L150DR
	1.85	3.70	33	40	8.00	2.50	0.065	0.150	1.25	—	F2871CT-ND	.78	.73	.61	F2871TR-ND	1,500	303.06/M	2920L185DR
	2.00	4.00	15	40	8.00	5.00	0.050	0.125	1.25	—	F3134CT-ND	.78	.73	.61	F3134TR-ND	1,500	303.06/M	2920L200DR
	2.00	4.00	24	40	8.00	5.00	0.050	0.125	1.25	—	F2872CT-ND	.92	.85	.72	F2872TR-ND	1,500	356.70/M	2920L200/24DR
	2.50	5.00	15	40	8.00	10.00	0.035	0.085	1.25	—	F2873CT-ND	.78	.73	.61	F2873TR-ND	1,500	303.06/M	2920L250DR
	2.60	5.00	6	40	8.00	10.00	0.025	0.075	1.00	—	F2874CT-ND	.78	.73	.61	F2874TR-ND	2,000	303.05/M	2920L260PR
	3.00	5.00	15	40	8.00	20.00	0.015	0.048	1.25	—	F2875CT-ND	.92	.85	.72	F2875TR-ND	1,500	356.70/M	2920L300/15DR
NEW! Polyfuse® Telecom/Power Cross 250S Series NEW!																		
250S(A)	0.13	0.26	60†	3	1.00	4.00	4.000	20	—	—	F3520CT-ND	1.07	.98	.83	F3520TR-ND	1,500	411.80/M	250S130DR
	0.13	0.26	60†	3	1.00	4.00	6.500	15	—	—	F3521CT-ND	1.07	.98	.83	F3521TR-ND	1,500	411.80/M	250S130-RADR
	0.13	0.26	60†	3	1.00	4.00	9.000	20	—	—	F3522CT-ND	1.07	.98	.83	F3522TR-ND	1,500	411.80/M	250S130-RBDR
	0.13	0.26	60†	3	1.00	4.00	7.000	17	—	—	F3523CT-ND	1.07	.98	.83	F3523TR-ND	1,500	411.80/M	250S130-RCDR
250S(B)	0.13	0.26	60†	3	1.00	4.00	4.000	20	—	—	F3524CT-ND	1.07	.98	.83	F3524TR-ND	1,200	411.80/M	250S130VMR

† 250 Volt Interrupt Rating

Polyfuse® PTC Resettable Devices Radial Leaded

Electrical Definitions: • Ihold: Hold Current: Maximum current device will pass without tripping in 23°C (20°C for 60R Series) still air • **Itrip:** Trip Current: Minimum current at which the device will trip in 23°C (20°C for 60R Series) still air • **Vmax:** Maximum voltage device can withstand without damage at rated current (Imax) • **Imax:** Maximum fault current device can withstand without damage at rated voltage (Vmax) • **Rmin:** Minimum resistance of device in initial (un-soldered) state • **R1max:** Maximum resistance of device at 23°C (20°C for 60R Series) measured one hour after tripping or reflow soldering of 260°C for 20 seconds

Operating Temperature: -40°C ~ 85°C

Maximum Device Surface Temperature in Tripped State: 125°C *Devices are not intended to be used for continual, repeated tripping.*

Note: *See data sheet for detailed Amperage Safety Approvals.*

CAUTION: *Operation beyond the specified ratings may result in damage and possible arcing and flame.*

Fig. 1

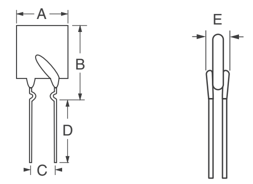

Fig. 2

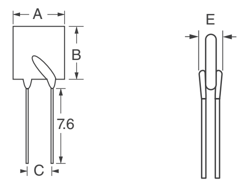

Fig. 3

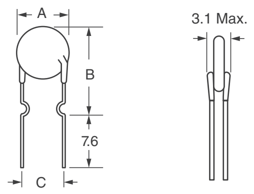

Fig.	Ihold (A)	Itrip (A)	Voltage Rating (V) Maximum	Imax (A)	Maximum Time to Trip		Resistance (Ω)		Dimensions (mm)					Digi-Key Part No.	Price Each			Littelfuse Part No.
					Current (A)	Time (Sec.)	Rmin	R1max	A (Max.)	B (Max.)	C (Typ.)	D	E (Max.)		1	10	100	
16R Series																		
1	2.50	4.7	16	100	12.5	5.0	0.0220	0.053	8.90	12.80	5.1	3.18	3.00	F3180-ND	.53	.49	.37	16R250GU
2	3.00	5.1	16	100	15.0	1.0	0.0380	0.0975	7.10	11.00	5.1	—	3.00	F3181-ND	.55	.51	.39	16R300GU
	4.00	6.8	16	100	20.0	1.7	0.0210	0.0600	8.90	12.80	5.1	—	3.00	F3182-ND	.59	.54	.41	16R400GU
	5.00	8.5	16	100	25.0	2.0	0.0150	0.0340	10.40	14.30	5.1	—	3.00	F3183-ND	.63	.59	.44	16R500GU
	6.00	10.2	16	100	30.0	3.3	0.0100	0.0280	10.70	17.10	5.1	—	3.00	F3184-ND	.66	.62	.46	16R600GU
	8.00	13.6	16	100	40.0	5.0	0.0056	0.0175	12.70	20.90	5.1	—	3.00	F3186-ND	.77	.72	.54	16R800GF
	9.00	15.3	16	100	45.0	5.5	0.0047	0.0135	14.00	21.70	5.1	—	3.00	F3187-ND	.77	.72	.54	16R900GF
	10.0	17.0	16	100	50.0	6.0	0.0040	0.0102	16.50	25.20	5.1	—	3.00	F3188-ND	.80	.75	.56	16R1000GF
	11.0	18.7	16	100	55.0	7.0	0.0037	0.0089	17.50	26.00	5.1	—	3.00	F3189-ND	.84	.78	.58	16R1100GF
	12.0	20.4	16	100	60.0	7.5	0.0033	0.0086	17.50	28.00	10.2	—	3.50	F3190-ND	.96	.89	.67	16R1200GH
	14.0	23.8	16	100	70.0	9.0	0.0026	0.0064	23.50	27.90	10.2	—	3.50	F3191-ND	1.11	1.03	.77	16R1400GH
30R Series																		
1	1.10	2.20	30	40	5.50	6.60	0.050	0.170	7.40	14.20	5.10	7.60	—	F2021-ND	.45	.42	.32	30R110UU
	1.60	3.20	30	40	8.00	8.00	0.030	0.110	8.90	15.20	5.10	7.60	—	F2023-ND	.52	.48	.36	30R160UU
	1.85	3.70	30	40	9.25	8.70	0.030	0.090	10.20	15.70	5.10	7.60	—	F2024-ND	.49	.46	.35	30R185UU
	2.50	5.00	30	40	12.50	10.30	0.020	0.070	11.40	18.30	5.10	7.60	—	F2025-ND	.50	.46	.35	30R250UU
	3.00	6.00	30	40	15.00	10.80	0.020	0.080	11.40	19.20	5.10	7.60	—	F2026-ND	.56	.52	.39	30R300UU
	5.00	10.00	30	40	25.00	14.50	0.010	0.050	14.00	25.60	10.20	7.60	—	F3000-ND	.60	.56	.42	30R500UF
	6.00	12.00	30	40	30.00	16.00	0.005	0.040	16.50	26.80	10.20	7.60	—	F2029-ND	.68	.63	.47	30R600UF
	8.00	16.00	30	40	40.00	18.80	0.005	0.020	21.60	31.10	10.20	7.60	—	F2031-ND	.75	.69	.52	30R800UH
NEW! 60R Series NEW!																		
3	0.10	0.20	60	40	0.50	4.00	2.500	7.500	7.4	12.7	5.1	—	—	F2000-ND	.42	.39	.30	60R010XU
	0.17	0.34	60	40	0.85	3.00	3.300	8.000	7.4	12.7	5.1	—	—	F2001-ND	.40	.37	.28	60R017XU
	0.20	0.40	60	40	1.00	2.20	1.830	4.400	7.4	11.7	5.1	—	—	F2002-ND	.40	.38	.28	60R020XU
	0.30	0.60	60	40	1.50	3.00	0.880	2.100	7.4	12.7	5.1	—	—	F2004-ND	.41	.38	.29	60R030XU
	0.40	0.80	60	40	2.00	3.80	0.550	1.290	7.6	13.5	5.1	—	—	F2005-ND	.45	.42	.31	60R040XU
	0.50	1.00	60	40	2.50	4.00	0.500	1.170	7.9	13.7	5.1	—	—	F2006-ND	.45	.42	.32	60R050XU
	0.65	1.30	60	40	3.25	5.30	0.310	0.720	9.4	14.5	5.1	—	—	F2007-ND	.46	.43	.32	60R065XU
	1.10	2.20	60	40	5.50	8.20	0.150	0.380	13.0	18.2	5.1	—	—	F2010-ND	.47	.44	.33	60R110XU
	1.85	3.70	60	40	9.25	12.60	0.080	0.190	16.76	23.0	5.1	—	—	F2013-ND	.54	.50	.38	60R185XF
72R Series																		
3	0.20	0.40	72	40	1.00	2.20	1.830	4.400	7.4	11.7	5.1	—	—	F3192-ND	.40	.38	.28	72R020XU
	0.25	0.50	72	40	1.25	2.50	1.250	3.000	7.4	12.7	5.1	—	—	F3193-ND	.41	.38	.29	72R025XU
	0.30	0.60	72	40	1.50	3.00	0.880	2.100	7.4	12.7	5.1	—	—	F3194-ND	.41	.38	.29	72R030XU
	0.40	0.80	72	40	2.00	3.80	0.550	1.290	7.6	13.5	5.1	—	—	F3195-ND	.45	.42	.31	72R040XU
	0.50	1.00	72	40	2.50	4.00	0.500	1.170	7.9	13.7	5.1	—	—	F3196-ND	.45	.42	.32	72R050XU
	0.65	1.30	72	40	3.25	5.30	0.310	0.720	9.4	14.5	5.1	—	—	F3197-ND	.46	.43	.32	72R065XU
	0.75	1.50	72	40	3.75	6.30	0.250	0.600	10.2	15.2	5.1	—	—	F3198-ND	.46	.43	.33	72R075XU
	0.90	1.80	72	40	4.50	7.20	0.200	0.470	11.2	15.8	5.1	—	—	F3199-ND	.47	.44	.33	72R090XU
	1.10	2.20	72	40	5.50	8.20	0.150	0.380	13.0	18.2	5.1	—	—	F3200-ND	.47	.44	.33	72R110XU
	1.35	2.70	72	40	6.75	9.60	0.120	0.300	13.58	19.8	5.1	—	—	F3201-ND	.49	.46	.34	72R135XF
	1.60	3.20	72	40	8.00	11.40	0.090	0.220	15.36	21.6	5.1	—	—	F3202-ND	.50	.47	.35	72R160XF
	1.85	3.70	72	40	9.25	12.60	0.080	0.190	16.76	23.0	5.1	—	—	F3203-ND	.54	.50	.38	72R185XF
	2.50	5.00	72	40	12.50	15.60	0.050	0.130	19.93	26.2	10.2	—	—	F3204-ND	.60	.56	.42	72R250XF
	3.00	6.00	72	40	15.00	19.80	0.040	0.100	23.11	29.3	10.2	—	—	F3205-ND	.65	.60	.45	72R300XF
	3.75	7.50	72	40	18.75	24.00	0.030	0.080	26.3	31.1	10.2	—	—	F3206-ND	.68	.63	.48	72R375XH

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse
Expertise Applied | Answers Delivered

PulseGuard® SMD ESD Suppressors

ESD suppressor provides protection for electronic devices against the threat of electrostatic discharge (ESD). Employing a voltage variable material to switch between high resistance and low resistance states, shunting ESD transients away from sensitive circuitry in applications like USB, IEEE1394, HDMI and DVI. PulseGuard suppressor complies with ESD specification IEC 61000-4-2.

0402 — PGB1 Series

Specifications: • **Continuous Operating Voltage:** 12VDC maximum • **Clamping Voltage (1):** 250V typical • **Peak Trigger Voltage (2):** 1,000V typical • **Capacitance:** 0.04pF (test frequency 250MHz) • **Leakage Current:** <1nA (12VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

0402 — PGB2 Series

Specifications: • **Continuous Operating Voltage:** 12VDC maximum • **Clamping Voltage (1):** 40V typical • **Trigger Voltage (2):** 250V typical • **Capacitance:** 0.07pF (test frequency 250MHz) • **Leakage Current:** <1nA (12VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

0603 — PGB1 Series

Specifications: • **Continuous Operating Voltage:** 24VDC, maximum • **Clamping Voltage (1):** 150V typical • **Peak Trigger Voltage (2):** 500V typical • **Capacitance:** 0.06pF (test frequency 250MHz) • **Leakage Current:** <1nA (6VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

SOT-23 — PGB1 Series

Specifications: • **Continuous Operating Voltage:** 24VDC, maximum • **Clamping Voltage (1):** 150V typical • **Peak Trigger Voltage (2):** 500V typical • **Capacitance:** 0.12pF (test frequency 250MHz) • **Leakage Current:** <1nA (6VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

***Notes:* (1)**: IEC61000-4-2 8kV contact discharge after 25nS, **(2)**: Measured per IEC 61000-4-2 8kV contact discharge

Dim. in Inch (mm)

Fig. 1 – 0402

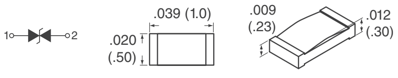

Fig. 2 – 0603

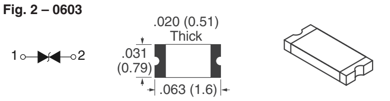

Fig. 3 – SOT-23

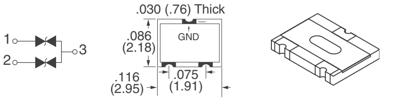

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape and Reel‡ Qty.	Pricing	Littelfuse Part No.
PGB1 Series						
1	F2862CT-ND	.49	.45	10,000	162.50/M	PGB1010402KR
2	F2594CT-ND	.51	.47	1,000	195.75	PGB1010603MR
3	F2596CT-ND	.86	.79	3,000	312.36/M	PGB102ST23WR
PGB2 Series — Halogen Free						
1	F3268CT-ND	.49	.45	10,000	162.50/M	PGB2010402KRHF

‡ For Tape and Reel part number change CT-ND to TR-ND.

TeleLink® SMD Fuses 0461 Series

Surface mount overcurrent protection from power cross and allows compliance with lightning surges. Meets UL 60950 3rd Edition (formerly UL1459) power cross requirements stand alone. Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and TIA-968-A surge specifications.

Specifications: • **Voltage Ratings:** 600V • **Operating Temperature Range:** -55°C ~ 125°C • **Materials:** Body: Ceramic; Terminations: Silver Plated Brass Caps • **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481 (IEC 286 part 3); 2,500 fuses per reel

Note: *See data sheet for detailed Amperage Safety Approvals.*

Dim. in Inch (mm)

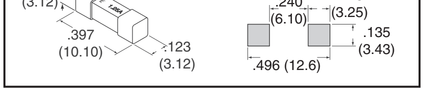

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
0461 Series						
.500	F1449CT-ND	1.90	1.75	1.48	F1449TR-ND	694.60/M
1.25	F1550CT-ND	1.90	1.75	1.48	F1550TR-ND	694.60/M
2.00	F1551CT-ND	1.90	1.75	1.48	F1551TR-ND	694.60/M

TeleLink® 0461 SMD Fuse and Clip Assembly 0159 Series

Dim. in Inch (mm)

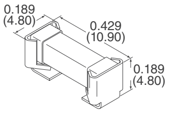

Specifications:

• **Maximum Voltage Rating:** 600V • **Operating Temperature:** -55°C ~ 125°C • **Materials:** Fuse Body: Ceramic; Fuse Caps/Terminals: Silver-plated Brass; Clip Base: Gold plated; Clip Terminals: Nickel plated

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
0159 Series						
1.25	F2942CT-ND	3.98	3.66	3.08	F2942TR-ND	1538.45

Enhanced TeleLink® Slo-Blo® SMD Fuses 0461E Series

Dim. in Inch (mm)

With optimized opening times at certain overload conditions, this enhanced TeleLink® Fuse works in harmony with Littelfuse's new SIDACtor® Transient Voltage Suppressor products in the QFN package.

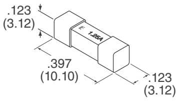

Specifications:

• **Voltage Ratings:** 600V • **Materials:** Body: Ceramic; Terminations: Silver Plated Caps • **Operating Temperature Range:** -55°C ~ 125°C

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
0461E Series						
1.25	F2926CT-ND	2.47	2.27	1.91	F2926TR-ND	901.46/M

"0402" (1005) SlimLine™ SMD Thin-Film Fuses 0435 Series

Dim. in Inch (mm)

Specifications:

• **Voltage Rating:** 32V • **Operating Temperature:** -55°C ~ 90°C • **Materials:** Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead Cover Coat: Conformal Coating • **Interrupting Ratings:** 35A @ 24V AC/DC • **Packaging Specification:** 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 10,000 per reel.

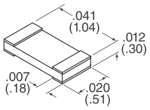

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000
0435 Series — Very Fast Acting						
.250	F1440CT-ND	1.25	1.16	.97	F1440TR-ND	417.50/M
.375	F1441CT-ND	1.25	1.16	.97	F1441TR-ND	417.50/M
.500	F1442CT-ND	1.25	1.16	.97	F1442TR-ND	417.50/M
.750	F1443CT-ND	1.25	1.16	.97	F1443TR-ND	417.50/M
1.00	F1444CT-ND	1.25	1.16	.97	F1444TR-ND	417.50/M
1.50	F1446CT-ND	1.25	1.16	.97	F1446TR-ND	417.50/M
2.00	F1448CT-ND	1.25	1.16	.97	F1448TR-ND	417.50/M

"0603" (1608) SlimLine™ SMD Thin-Film 0467 Series

Dim. in Inch (mm)

SlimLine 0603 Lead Free complies with electronic industry environmental standards for lead reduction. Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 0603 fuse products.

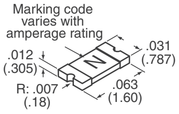

Specifications: • **Voltage Rating:** 32V AC/DC • **Operating Temperature:** -55°C ~ 90°C • **Construction Material:** Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • **Interrupting Ratings:** (.250A ~ 1A) 50A @ 32V AC/DC, (1.25A ~ 5A) 35A @ 32V AC/DC • **Tape and Reel Specifications:** 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0467 Series — Very Fast Acting							
.250	D	F1389CT-ND•	1.05	.97	.81	F1389TR-ND	362.70/M
.375	E	F1390CT-ND•	1.05	.97	.81	F1390TR-ND	362.70/M
.500	F	F1391CT-ND•	1.05	.97	.81	F1391TR-ND	362.70/M
.750	G	F1392CT-ND•	1.05	.97	.81	F1392TR-ND	362.70/M
1.00	H	F1393CT-ND•	1.05	.97	.81	F1393TR-ND	362.70/M
1.25	J	F1394CT-ND•	1.05	.97	.81	F1394TR-ND	362.70/M
1.50	K	F1395CT-ND•	1.05	.97	.81	F1395TR-ND	362.70/M
1.75	L	F1396CT-ND•	1.05	.97	.81	F1396TR-ND	362.70/M
2.00	N	F1397CT-ND•	1.05	.97	.81	F1397TR-ND	362.70/M
2.50	0	F1398CT-ND•	1.05	.97	.81	F1398TR-ND	362.70/M
3.00	P	F1399CT-ND•	1.05	.97	.81	F1399TR-ND	362.70/M
3.50	R	F1400CT-ND•	1.05	.97	.81	F1400TR-ND	362.70/M
4.00	S	F1401CT-ND•	1.05	.97	.81	F1401TR-ND	362.70/M
5.00	T	F1402CT-ND•	1.05	.97	.81	F1402TR-ND	362.70/M

• **467-KIT-ND Digi-Key® 467 Series Fuse *Very Fast Acting SlimLine*™ *Lead Free***
10 each of parts indicated, plus a plastic storage box.................... **$116.26**

"0603" (1608) SMD High Temperature Fuses 0438 Series

Dim. in Inch (mm)

Specifications:

• **Maximum Voltage Rating:** 32V • **Operating Temperature:** -55°C ~ 150°C

Materials: • Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • **Element Cover Coating:** Lead-Free Glass

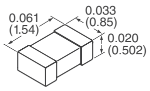

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0438 Series — Very Fast Acting						
.250	F2943CT-ND	1.26	1.16	.98	F2943TR-ND	458.95/M
.375	F2944CT-ND	1.26	1.16	.98	F2944TR-ND	458.95/M
.500	F2945CT-ND	1.26	1.16	.98	F2945TR-ND	458.95/M
.750	F2946CT-ND	1.26	1.16	.98	F2946TR-ND	458.95/M
1.00	F2947CT-ND	1.26	1.16	.98	F2947TR-ND	458.95/M
1.75	F2950CT-ND	1.26	1.16	.98	F2950TR-ND	458.95/M
2.00	F2951CT-ND	1.26	1.16	.98	F2951TR-ND	458.95/M
2.50	F2952CT-ND	1.26	1.16	.98	F2952TR-ND	458.95/M
3.00	F2953CT-ND	1.26	1.16	.98	F2953TR-ND	458.95/M
3.50	F2954CT-ND	1.26	1.16	.98	F2954TR-ND	458.95/M
4.00	F2955CT-ND	1.26	1.16	.98	F2955TR-ND	458.95/M
5.00	F2956CT-ND	1.26	1.16	.98	F2956TR-ND	458.95/M
6.00	F2957CT-ND	1.26	1.16	.98	F2957TR-ND	458.95/M

NEW! "0603" (1608) SMD Inrush Withstand Fuses 0441 Series

Dim. in Inch (mm)

Specifications:

• **Maximum Voltage Rating:** 32V • **Operating Temperature:** -55°C ~ 150°C

Materials: • Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • **Element Cover Coating:** Lead-Free Glass

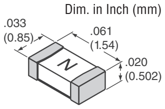

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0441 Series — High I^2t Fuses						
2.00	F3531CT-ND	1.06	.98	.74	F3531TR-ND	445.25/M
2.50	F3532CT-ND	1.06	.98	.74	F3532TR-ND	445.25/M
3.00	F3533CT-ND	1.06	.98	.74	F3533TR-ND	445.25/M
3.50	F3534CT-ND	1.06	.98	.74	F3534TR-ND	445.25/M
4.00	F3535CT-ND	1.06	.98	.74	F3535TR-ND	445.25/M
5.00	F3536CT-ND	1.06	.98	.74	F3536TR-ND	445.25/M
6.00	F3537CT-ND	1.06	.98	.74	F3537TR-ND	445.25/M

"1206" (3216) SMD High Temperature Fuses 0437 and 0469 Series

Specifications:
• **Voltage Rating:** ***0437 Series***: (.250mA ~ .375mA) 125V; (.500mA ~ 2A) 63V; (2.5A ~ 8A) 32V ***0469 Series***: (4A ~ 5A) 32V; (6A ~ 8A) 24V • **Operating Temperature:** -55°C ~ 150°C • **Materials:** • Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • **Element Cover Coating:** Lead-Free Glass

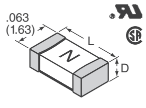

Series	Dimensions Inch (mm) L	D
0437	.126 (3.2)	.0332 (.8179)
0469	.129 (3.27)	.035 (.900)

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0437 Series — Fast Acting						
.250	F2877CT-ND	1.00	.92	.78	F2877TR-ND	364.42/M
.375	F2878CT-ND	1.00	.92	.78	F2878TR-ND	364.42/M

(Continued)

"1206" (3216) SMD High Temperature Fuses 0437 and 0469 Series (Cont.)

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
.500	F2879CT-ND	1.00	.92	.78	F2879TR-ND	364.42/M
.750	F2880CT-ND	1.00	.92	.78	F2880TR-ND	364.42/M
1.00	F2881CT-ND	1.00	.92	.78	F2881TR-ND	364.42/M
1.25	F2882CT-ND	1.00	.92	.78	F2882TR-ND	364.42/M
1.50	F2883CT-ND	1.00	.92	.78	F2883TR-ND	364.42/M
1.75	F2884CT-ND	1.00	.92	.78	F2884TR-ND	364.42/M
2.00	F2885CT-ND	1.00	.92	.78	F2885TR-ND	364.42/M
2.50	F2886CT-ND	1.00	.92	.78	F2886TR-ND	364.42/M
3.00	F2887CT-ND	1.00	.92	.78	F2887TR-ND	364.42/M
3.50	F2888CT-ND	1.00	.92	.78	F2888TR-ND	364.42/M
4.00	F2889CT-ND	1.00	.92	.78	F2889TR-ND	364.42/M
5.00	F2890CT-ND	1.00	.92	.78	F2890TR-ND	364.42/M
7.00	F2891CT-ND	1.00	.92	.78	F2891TR-ND	364.42/M
8.00	F2892CT-ND	1.00	.92	.78	F2892TR-ND	364.42/M
NEW! 0469 Series — Slo-Blo® NEW!						
4.00	F3538CT-ND	.87	.80	.68	F3538TR-ND	317.84/M
5.00	F3539CT-ND	.87	.80	.68	F3539TR-ND	317.84/M
6.00	F3540CT-ND	.87	.80	.68	F3540TR-ND	317.84/M
7.00	F3541CT-ND	.87	.80	.68	F3541TR-ND	317.84/M
8.00	F3542CT-ND	.87	.80	.68	F3542TR-ND	317.84/M

"1206" (3216) SMD Nano²® Inrush Withstand Fuses 0458 Series

Dim. in Inch (mm)

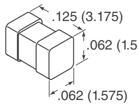

Specifications:
• **Maximum Voltage Rating:** 63V • **Operating Temperature:** -55°C ~ 125°C • **Materials:** Body: Ceramic; Cap: Gold Plated Brass • **Interrupting Rating:** 50A @ 63VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
0458 Series — Fast Acting						
1.00	F2927CT-ND	1.49	1.37	1.15	F2927TR-ND	574.20/M
1.25	F2928CT-ND	1.49	1.37	1.15	F2928TR-ND	574.20/M
1.50	F2929CT-ND	1.49	1.37	1.15	F2929TR-ND	574.20/M
2.00	F2931CT-ND	1.49	1.37	1.15	F2931TR-ND	574.20/M
2.50	F2932CT-ND	1.49	1.37	1.15	F2932TR-ND	574.20/M
3.00	F2933CT-ND	1.49	1.37	1.15	F2933TR-ND	574.20/M
3.15	F2934CT-ND	1.49	1.37	1.15	F2934TR-ND	574.20/M
3.50	F2935CT-ND	1.49	1.37	1.15	F2935TR-ND	574.20/M
4.00	F2936CT-ND	1.49	1.37	1.15	F2936TR-ND	574.20/M
5.00	F2937CT-ND	1.49	1.37	1.15	F2937TR-ND	574.20/M
6.30	F2938CT-ND	1.49	1.37	1.15	F2938TR-ND	574.20/M
7.00	F2939CT-ND	1.49	1.37	1.15	F2939TR-ND	574.20/M
8.00	F2940CT-ND	1.49	1.37	1.15	F2940TR-ND	574.20/M
10.00	F2941CT-ND	2.34	2.16	1.81	F2941TR-ND	904.80/M

"1206" (3216) SlimLine™ SMD Thin-Film Fuses 0466 and 0468 Series

Dim. in Inch (mm)

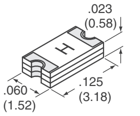

Features:
• Complies with electronic industry environmental standards for lead reduction
• Product is compatible with lead-free solders and higher temperature profiles • Element covering material is resistant to industry standard cleaning operations • Mounting pad and electrical performance is identical to Littelfuse 429 and 433 Series products
• Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 1206 chip fuse products

Specifications: • **Voltage Ratings: 0466 Series:** (.125A ~ .375A) 125V, (.500A ~ 2A) 63V, (2.5A ~ 5A) 32V, **0468 Series:** (.500A ~ 2A) 63V, (3A) 32V • **Operating Temperature:** -55°C ~ 90°C • **Construction Material:** Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • **Interrupting Ratings: 0466 Series:** (.125A ~ .375A) 50A @ 125VAC/DC, (.500A ~ 2A) 50A @ 63VAC/DC, (2.5A ~ 3A) 50A @ 32VAC/DC, (4A ~ 5A) 35A @ 24VAC/DC, **0468 Series:** (.500A ~ 1.50A) 50A @ 63VAC/VDC, (2A) 35A @ 63VAC, 50A @ 63VDC, (3A) 50A @ 32VAC/VDC • **Tape and Reel Specifications:** 8mm Tape and Reel per EIA-RS481-1 (IEC 286, part 3)

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Mark-ing Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0466 Series — Very Fast Acting							
.125	B	F1450CT-ND•	.83	.77	.65	F1450TR-ND	287.30/M
.200	C	F1451CT-ND•	.83	.77	.65	F1451TR-ND	287.30/M
.250	D	F1452CT-ND•	.83	.77	.65	F1452TR-ND	287.30/M
.375	E	F1453CT-ND•	.83	.77	.65	F1453TR-ND	287.30/M
.500	F	F1454CT-ND•	.83	.77	.65	F1454TR-ND	287.30/M
.750	G	F1455CT-ND•	.83	.77	.65	F1455TR-ND	287.30/M
1.00	H	F1456CT-ND•	.83	.77	.65	F1456TR-ND	287.30/M
1.25	J	F1465CT-ND•	.83	.77	.65	F1465TR-ND	287.30/M
1.50	K	F1462CT-ND•	.83	.77	.65	F1462TR-ND	287.30/M
1.75	L	F1466CT-ND•	.83	.77	.65	F1466TR-ND	287.30/M
2.00	N	F1457CT-ND•	.83	.77	.65	F1457TR-ND	287.30/M
2.50	O	F1464CT-ND•	.83	.77	.65	F1464TR-ND	287.30/M
3.00	P	F1458CT-ND•	.83	.77	.65	F1458TR-ND	287.30/M
4.00	S	F1459CT-ND•	.83	.77	.65	F1459TR-ND	287.30/M
5.00	T	F1460CT-ND•	.83	.77	.65	F1460TR-ND	287.30/M
0468 Series — Slo-Blo®							
.500	TF	F3156CT-ND	1.25	1.16	.97	F3156TR-ND	434.20/M
1.00	TH	F2658CT-ND	1.25	1.16	.97	F2658TR-ND	434.20/M
1.50	TK	F2569CT-ND	1.25	1.16	.97	F2569TR-ND	434.20/M
2.00	TN	F2570CT-ND	1.25	1.16	.97	F2570TR-ND	434.20/M
3.00	TP	F2571CT-ND	1.25	1.16	.97	F2571TR-ND	434.20/M

• **466-KIT-ND Digi-Key® 466 Series Fuse** ***Very Fast Acting*** **Slimline™** ***Lead Free*** 10 each of parts indicated, plus a plastic storage box **$113.63**

"1206" (3216) SMD High Current Fuses 0501 Series

Dim. in Inch (mm)

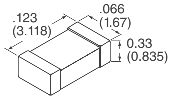

Specifications:
• **Voltage Rating:** 24V • **Operating Temperature:** -55°C ~ 150°C • **Materials:** • Body: Advanced Ceramic; Terminations: Gold/Nickel/Tin • **Element Cover Coating:** Lead-Free Glass • **Interrupting Rating:** 150A @ 24VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0501 Series — Fast Acting						
15.00	F2919CT-ND	1.00	.92	.78	F2919TR-ND	364.42/M
20.00	F2920CT-ND	1.00	.92	.78	F2920TR-ND	364.42/M

SMD Nano²® Fuse with Omni-Blok® Fuse Block 0154(T) Series

Dim. in Inch (mm)

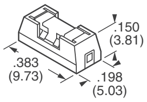

The Omni-Blok® Fuseholder permits quick and easy replacement of Nano²® surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation.

Specifications:
• **Voltage Rating:** 125V • **Ambient Temperature:** -55°C ~ 125°C • **Molded Parts:** Thermoplastic (UL94V-0) • **Packaging:** 16mm wide Tape and Reel per EIA Standard 481

Note: Installed fuses have silver plated end caps, installed to accommodate solder reflow process. Use 451 Series Fast Acting Fuse with tin/lead alloy plated end caps for replacement purposes of the 154 Series product. Use 452 Series Slo-Blo® Fuse with tin/lead alloy plated end caps for replacement purposes of the 154xxxT Series.

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
0154 Series — Very Fast Acting						
.062	F3148CT-ND	3.34	3.08	2.59	F3148TR-ND	1290.50/M
.125	F3149CT-ND	3.34	3.08	2.59	F3149TR-ND	1290.50/M
.250	F1219CT-ND	3.18	2.93	2.46	F1219TR-ND	1228.16/M
.375	F3150CT-ND	3.18	2.93	2.46	F3150TR-ND	1228.16/M
.500	F1220CT-ND•	3.18	2.93	2.46	F1220TR-ND	1228.16/M
.750	F1221CT-ND•	2.70	2.49	2.09	F1221TR-ND	1042.56/M
1.00	F1222CT-ND•	2.70	2.49	2.09	F1222TR-ND	1042.56/M
1.50	F1223CT-ND•	2.70	2.49	2.09	F1223TR-ND	1042.56/M
2.00	F1224CT-ND•	2.70	2.49	2.09	F1224TR-ND	1042.56/M
2.50	F1225CT-ND•	2.70	2.49	2.09	F1225TR-ND	1042.56/M
3.00	F1226CT-ND•	2.70	2.49	2.09	F1226TR-ND	1042.56/M
3.50	F3151CT-ND	2.70	2.49	2.09	F3151TR-ND	1042.56/M
4.00	F1227CT-ND•	2.70	2.49	2.09	F1227TR-ND	1042.56/M
5.00	F1228CT-ND•	2.70	2.49	2.09	F1228TR-ND	1042.56/M
6.30	F3152CT-ND	2.70	2.49	2.09	F3152TR-ND	1042.56/M
7.00	F1229CT-ND	2.70	2.49	2.09	F1229TR-ND	1042.56/M
8.00	F1239CT-ND	2.70	2.49	2.09	F1239TR-ND	1042.56/M
10.00	F1251CT-ND	2.88	2.66	2.24	F1251TR-ND	1115.06/M
0154xxxT Series — Slo-Blo®						
.375	F1300CT-ND•	3.96	3.65	3.07	F1300TR-ND	1532.66/M
.500	F1301CT-ND•	3.96	3.65	3.07	F1301TR-ND	1532.66/M
.750	F1302CT-ND•	3.49	3.21	2.70	F1302TR-ND	1348.50/M
1.00	F1303CT-ND•	3.49	3.21	2.70	F1303TR-ND	1348.50/M
1.50	F1304CT-ND•	3.49	3.21	2.70	F1304TR-ND	1348.50/M
2.00	F1305CT-ND•	3.49	3.21	2.70	F1305TR-ND	1348.50/M
2.50	F1306CT-ND•	3.49	3.21	2.70	F1306TR-ND	1348.50/M
3.00	F1307CT-ND•	3.49	3.21	2.70	F1307TR-ND	1348.50/M
3.50	F1308CT-ND	3.49	3.21	2.70	F1308TR-ND	1348.50/M
4.00	F1309CT-ND•	3.49	3.21	2.70	F1309TR-ND	1348.50/M
5.00	F1310CT-ND•	3.49	3.21	2.70	F1310TR-ND	1348.50/M

• **154-KIT-ND Digi-Key® 154 Series Fuseblock with Fuse** ***Fast Acting and Slo-Blo® Surface Mount Nano²®*** 5 each of parts indicated, plus a plastic storage box **$148.84**

SMD Nano²® Fuses 0451, 0452, 0453 and 0454 Series

Dim. in Inch (mm)

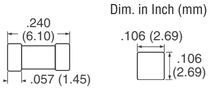

Nano²® Surface Mount Fuses incorporate proven Picofuse performance and dependability in a flat top design which permits efficient pick and place assembly.

Specifications:
• **Voltage Rating:** 125V; (65V for part numbers F2592, F2593, F3142 and F3341) • **Operating Temperature Range:** -55°C ~ 125°C • **Materials:** Body: Ceramic; Terminations: (451/452 series) Gold-plated caps (453/454 series) Silver-plated caps

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
0451 Series — Very Fast Acting - Gold Caps						
0.062	F3153CT-ND	2.93	2.70	2.27	F3153TR-ND	1131.00
0.125	F3154CT-ND	2.93	2.70	2.27	F3154TR-ND	1131.00
0.250	F2572CT-ND	1.29	1.19	1.00	—	—
0.375	F2573CT-ND	1.29	1.19	1.00	F2573TR-ND	497.35
0.500	F2574CT-ND	1.29	1.19	1.00	F2574TR-ND	497.35
0.630	F2575CT-ND	1.29	1.19	1.00	F2575TR-ND	497.35
0.750	F2576CT-ND	1.29	1.19	1.00	F2576TR-ND	497.35
1.000	F2577CT-ND	1.29	1.19	1.00	F2577TR-ND	497.35
1.250	F2578CT-ND	1.29	1.19	1.00	F2578TR-ND	497.35
1.500	F2579CT-ND	1.29	1.19	1.00	F2579TR-ND	497.35
1.600	F2580CT-ND	1.29	1.19	1.00	F2580TR-ND	497.35
2.000	F2581CT-ND	1.29	1.19	1.00	F2581TR-ND	497.35
2.500	F2582CT-ND	1.29	1.19	1.00	F2582TR-ND	497.35
3.000	F2583CT-ND	1.29	1.19	1.00	F2583TR-ND	497.35
3.150	F2584CT-ND	1.29	1.19	1.00	F2584TR-ND	497.35
3.500	F2585CT-ND	1.29	1.19	1.00	F2585TR-ND	497.35
4.000	F2586CT-ND	1.29	1.19	1.00	F2586TR-ND	497.35
5.000	F2587CT-ND	1.29	1.19	1.00	F2587TR-ND	497.35
6.300	F2588CT-ND	1.29	1.19	1.00	F2588TR-ND	497.35
7.000	F2589CT-ND	1.29	1.19	1.00	F2589TR-ND	497.35
8.000	F2590CT-ND	1.29	1.19	1.00	F2590TR-ND	497.35
10.000	F2591CT-ND	2.04	1.88	1.58	F2591TR-ND	788.80
12.000	F2592CT-ND	2.04	1.88	1.58	F2592TR-ND	788.80
15.000	F2593CT-ND	2.04	1.88	1.58	F2593TR-ND	788.80
0452 Series — Slo-Blo® - Gold Caps						
0.375	F2597CT-ND	1.74	1.61	1.35	F2597TR-ND	674.25
0.500	F2598CT-ND	1.74	1.61	1.35	F2598TR-ND	674.25
0.750	F2599CT-ND	1.74	1.61	1.35	F2599TR-ND	674.25
1.000	F2600CT-ND	1.74	1.61	1.35	F2600TR-ND	674.25
1.500	F2601CT-ND	1.74	1.61	1.35	F2601TR-ND	674.25
2.000	F2602CT-ND	1.74	1.61	1.35	F2602TR-ND	674.25
2.500	F2603CT-ND	1.74	1.61	1.35	F2603TR-ND	674.25
3.000	F2604CT-ND	1.74	1.61	1.35	F2604TR-ND	674.25
3.500	F2605CT-ND	1.74	1.61	1.35	F2605TR-ND	674.25
4.000	F2606CT-ND	1.74	1.61	1.35	F2606TR-ND	674.25
5.000	F2607CT-ND	1.74	1.61	1.35	F2607TR-ND	674.25
0453 Series — Very Fast Acting - Silver Caps						
0.500	F3135CT-ND	1.31	1.21	1.02	F3135TR-ND	507.50
0.750	F3136CT-ND	1.31	1.21	1.02	F3136TR-ND	507.50
1.000	F3137CT-ND	1.31	1.21	1.02	F3137TR-ND	507.50
1.500	F3342CT-ND	1.31	1.21	1.02	F3342TR-ND	507.50
2.000	F3338CT-ND	1.31	1.21	1.02	F3338TR-ND	507.50
2.500	F3343CT-ND	1.31	1.21	1.02	F3343TR-ND	507.50
3.000	F3138CT-ND	1.31	1.21	1.02	F3138TR-ND	507.50
4.000	F3339CT-ND	1.31	1.21	1.02	F3339TR-ND	507.50
5.000	F3139CT-ND	1.31	1.21	1.02	F3139TR-ND	507.50
7.000	F3140CT-ND	1.31	1.21	1.02	F3140TR-ND	507.50
8.000	F3340CT-ND	1.31	1.21	1.02	F3340TR-ND	507.50
10.000	F3141CT-ND	2.08	1.92	1.61	F3141TR-ND	803.30
12.000	F3341CT-ND	2.08	1.92	1.61	F3341TR-ND	803.30
15.000	F3142CT-ND	2.08	1.92	1.61	F3142TR-ND	803.30
0454 Series — Slo-Blo® - Silver Caps						
0.500	F3143CT-ND	1.62	1.49	1.26	F3143TR-ND	626.40
1.000	F3144CT-ND	1.62	1.49	1.26	F3144TR-ND	626.40
2.000	F3145CT-ND	1.62	1.49	1.26	F3145TR-ND	626.40
3.000	F3146CT-ND	1.62	1.49	1.26	F3146TR-ND	626.40
5.000	F3147CT-ND	1.62	1.49	1.26	F3147TR-ND	626.40

Littelfuse
Expertise Applied | Answers Delivered

SMD Nano²® Fuses with Clip Assembly — 0157(T) Series

Dim. in Inch (mm)

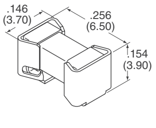

Specifications:
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Materials:** Body: Ceramic Cap: **157 Series:** (0.125A) Gold Plated Brass, (0.250A ~ 10A) Silver Plated Brass Cap: **157T Series:** (0.375A ~ 5A) Silver Plated Brass Clip Plating: Matte Tin
- **Interrupting Rating:** (0.125A ~ 8A) 50A @ 125VAC/VDC, 300A @ 32VDC (10A) 35A @ 125VAC, 50A @ 125VDC, 300A @ 32VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,500
0157 Series — Very Fast Acting						
0.125	125	F2958CT-ND	3.34	3.08	F2958TR-ND	1290.50/M
0.250	125	F2959CT-ND	3.18	2.93	F2959TR-ND	1228.16/M
0.500	125	F2960CT-ND	3.18	2.93	F2960TR-ND	1228.16/M
1.00	125	F2962CT-ND	2.70	2.49	F2962TR-ND	1042.56/M
1.50	125	F2963CT-ND	2.70	2.49	F2963TR-ND	1042.56/M
2.00	125	F2964CT-ND	2.70	2.49	F2964TR-ND	1042.56/M
2.50	125	F2965CT-ND	2.70	2.49	F2965TR-ND	1042.56/M
3.00	125	F2966CT-ND	2.70	2.49	F2966TR-ND	1042.56/M
3.50	125	F2967CT-ND	2.70	2.49	F2967TR-ND	1042.56/M
4.00	125	F2968CT-ND	2.70	2.49	F2968TR-ND	1042.56/M
5.00	125	F2969CT-ND	2.70	2.49	F2969TR-ND	1042.56/M
6.30	125	F2970CT-ND	2.70	2.49	F2970TR-ND	1042.56/M
7.00	125	F2971CT-ND	2.70	2.49	F2971TR-ND	1042.56/M
8.00	125	F2972CT-ND	2.70	2.49	F2972TR-ND	1042.56/M
10.00	125	F2973CT-ND	2.88	2.66	F2973TR-ND	1115.06/M
0157T Series — Slo-Blo®						
0.375	125	F2974CT-ND	3.96	3.65	F2974TR-ND	1532.66/M
0.500	125	F2975CT-ND	3.96	3.65	F2975TR-ND	1532.66/M
1.00	125	F2977CT-ND	3.49	3.21	F2977TR-ND	1348.50/M
1.50	125	F2978CT-ND	3.49	3.21	F2978TR-ND	1348.50/M
2.00	125	F2979CT-ND	3.49	3.21	F2979TR-ND	1348.50/M
2.50	125	F2980CT-ND	3.49	3.21	F2980TR-ND	1348.50/M
3.00	125	F2981CT-ND	3.49	3.21	F2981TR-ND	1348.50/M
3.50	125	F2982CT-ND	3.49	3.21	F2982TR-ND	1348.50/M
4.00	125	F2983CT-ND	3.49	3.21	F2983TR-ND	1348.50/M
5.00	125	F2984CT-ND	3.49	3.21	F2984TR-ND	1348.50/M

NEW! SMD Nano²® 250V Fuses with Clip Assembly — 0160 Series

Dim. in Inch (mm)

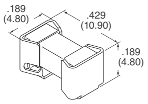

Specifications:
- **Operating Temperature:** -55°C~125°C
- **Materials:** Body: Ceramic, Cap: Silver Plated Brass
- **Interrupting Rating:** 50A @ 250VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,000
0160 Series — Slo-Blo®						
0.500	250	F3558CT-ND	3.78	3.49	F3558TR-ND	1463.05
0.750	250	F3559CT-ND	3.78	3.49	F3559TR-ND	1463.05
1.00	250	F3560CT-ND	3.78	3.49	F3560TR-ND	1463.05
1.50	250	F3561CT-ND	3.78	3.49	F3561TR-ND	1463.05
2.00	250	F3562CT-ND	3.78	3.49	F3562TR-ND	1463.05
2.50	250	F3563CT-ND	3.78	3.49	F3563TR-ND	1463.05
3.00	250	F3564CT-ND	3.78	3.49	F3564TR-ND	1463.05
3.50	250	F3565CT-ND	3.78	3.49	F3565TR-ND	1463.05
4.00	250	F3566CT-ND	3.78	3.49	F3566TR-ND	1463.05
5.00	250	F3567CT-ND	3.78	3.49	F3567TR-ND	1463.05

SMD Nano²® 250V Fuses 0443 Series

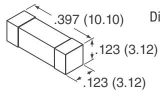

Dim. in Inch (mm)

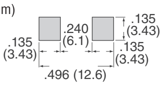

Specifications:
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Materials:** Body: Ceramic; Cap: Silver Plated Brass
- **Interrupting Rating:** 50A @ 250VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,500
0443 Series — Slo-Blo®						
.500	250	F2904CT-ND	1.62	1.50	F2904TR-ND	627.86/M
.750	250	F2905CT-ND	1.62	1.50	F2905TR-ND	627.86/M
1.00	250	F2906CT-ND	1.62	1.50	F2906TR-ND	627.86/M
1.50	250	F2907CT-ND	1.62	1.50	F2907TR-ND	627.86/M
2.00	250	F2908CT-ND	1.62	1.50	F2908TR-ND	627.86/M
2.50	250	F2909CT-ND	1.62	1.50	F2909TR-ND	627.86/M
3.00	250	F2910CT-ND	1.62	1.50	F2910TR-ND	627.86/M
3.50	250	F2911CT-ND	1.62	1.50	F2911TR-ND	627.86/M
4.00	250	F2912CT-ND	1.62	1.50	F2912TR-ND	627.86/M
5.00	250	F2913CT-ND	1.58	1.45	F2913TR-ND	609.00/M

SMD Nano²® High Current Fuses 0456 Series

Dim. in Inch (mm)

Fig. 1

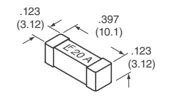

Fig. 2

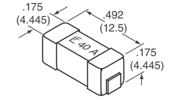

Specifications:
- **Operating Temperature:** -55°C ~ 125°C with proper derating
- **Materials:** Body: Ceramic; Cap: Silver Plated Brass
- **Interrupting Rating:** (20A ~ 30A) 100A @ 125VAC; (40A) 600A @ 60VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 2,500
Fig. 1 — 0456 Series						
20	125	F3344CT-ND	5.28	4.86	F3344TR-ND	1927.60/M
30	125	F3345CT-ND	4.87	4.49	F3345TR-ND	1779.64/M

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,500
Fig. 2 — 0456 Series						
40	60	F3364CT-ND	6.03	5.55	F3364TR-ND	2330.16/M

Axial PICO®II Pico Fuses 0251 Series

Dim. in Inch (mm)

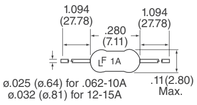

Specifications:
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Materials:** Body: UL94V-0 epoxy coating, green
- **Materials:** Pure tin coated copper wire leads
- **Interrupting Ratings:** 300VDC, 50A VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0251 Series — Very Fast Acting (Bulk)					
.062	125	F2307-ND	1.19	1.11	.83
.125	125	F2308-ND•	.75	.70	.53
.250	125	F2309-ND	.75	.70	.53
.375	125	F2310-ND	.75	.70	.53
.500	125	F2311-ND•	.63	.58	.44
.630	125	F2312-ND	.63	.58	.44
.750	125	F2353-ND•	.63	.58	.44
1.00	125	F2313-ND•	.63	.58	.44
1.25	125	F2323-ND	.63	.58	.44
1.50	125	F2319-ND•	.63	.58	.44
2.00	125	F2314-ND•	.63	.58	.44
2.50	125	F2321-ND	.63	.58	.44
3.00	125	F2315-ND•	.63	.58	.44
3.50	125	F2322-ND	.63	.58	.44
4.00	125	F2316-ND•	.63	.58	.44
5.00	125	F2317-ND•	.63	.58	.44
7.00	125	F2318-ND	.63	.58	.44
10.00	125	F2320-ND	.63	.58	.44
12.00	32	F2351-ND	.85	.79	.59
15.00	32	F2352-ND	.85	.79	.59

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,000
0251 Series — Very Fast Acting						
.250	125	F3165CT-ND	.90	.84	F3165TR-ND	349.45
.375	125	F3166CT-ND	.90	.84	F3166TR-ND	349.45
.500	125	F3167CT-ND	.75	.69	F3167TR-ND	290.00
.750	125	F3168CT-ND	.75	.69	F3168TR-ND	290.00
1.00	125	F3169CT-ND	.75	.69	F3169TR-ND	290.00
1.50	125	F3170CT-ND	.75	.69	F3170TR-ND	290.00
2.00	125	F3171CT-ND	.75	.69	F3171TR-ND	290.00
3.00	125	F3172CT-ND	.75	.69	F3172TR-ND	290.00
4.00	125	F3173CT-ND	.75	.69	F3173TR-ND	290.00
5.00	125	F3174CT-ND	.75	.69	F3174TR-ND	290.00
7.00	125	F3175CT-ND	.75	.69	F3175TR-ND	290.00
10.00	125	F3176CT-ND	.75	.69	F3176TR-ND	290.00
15.00	32	F3177CT-ND	1.02	.94	F3177TR-ND	392.95

- **251L-473L-KIT-ND Digi-Key® 251 Series Fuse** ***Very Fast Acting*** and **473 Series Fuse** ***Slo-Blo® Axial Pico II***™ 5 each of parts indicated, plastic storage box **not** included **$105.08**

Axial PICO®II Pico Fuses 0473L Series

Dim. in Inch (mm)

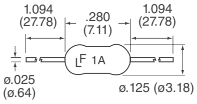

- **Operating Temperature:** -55°C ~ 125°C
- **Construction Materials:** Body: UL94V0 epoxy coating, Gold; Leads: Solder coated Copper wire

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,000
0473L Series — Slo-Blo®						
.375	125	F2338CT-ND	2.39	2.20	F2338TR-ND	922.20
.500	125	F2339CT-ND•	2.39	2.20	F2339TR-ND	922.20
.750	125	F2340CT-ND•	2.39	2.20	F2340TR-ND	922.20
1.00	125	F2341CT-ND•	2.39	2.20	F2341TR-ND	922.20
1.50	125	F2347CT-ND•	2.39	2.20	F2347TR-ND	922.20
2.00	125	F2342CT-ND•	2.39	2.20	F2342TR-ND	922.20
2.50	125	F2348CT-ND	2.39	2.20	F2348TR-ND	922.20
3.00	125	F2343CT-ND•	2.39	2.20	F2343TR-ND	922.20
3.50	125	F2349CT-ND•	2.39	2.20	F2349TR-ND	922.20
4.00	125	F2344CT-ND•	2.39	2.20	F2344TR-ND	922.20
5.00	125	F2345CT-ND•	2.39	2.20	F2345TR-ND	922.20
7.00	125	F2346CT-ND	2.39	2.20	F2346TR-ND	922.20

- **251L-473L-KIT-ND Digi-Key® 251 Series Fuse** ***Very Fast Acting*** and **473 Series Fuse** ***Slo-Blo® Axial Pico II***™ 5 each of parts indicated, plastic storage box **not** included **$105.08**

Axial PICO®II 250V Pico Fuses 0263L Series

Dim. in Inch (mm)

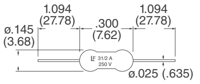

Specifications:
- **Operating Temperature:** -55°C ~ 125°C
- **Materials:** Encapsulated epoxy-coated Body; Pure tin coated copper leads; Green in color
- **Interrupting Rating:** 50A @ 250VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0263L Series — Very Fast Acting					
.062	250	F2324-ND	2.66	2.46	1.84
.125	250	F2325-ND	2.11	1.95	1.47
.250	250	F2326-ND	2.11	1.95	1.47
.375	250	F2327-ND	2.11	1.95	1.47
.500	250	F2328-ND	2.11	1.95	1.47
.750	250	F2329-ND	1.75	1.62	1.22
1.00	250	F2330-ND	1.75	1.62	1.22
1.50	250	F2335-ND	1.75	1.62	1.22
2.00	250	F2331-ND	1.75	1.62	1.22
2.50	250	F2336-ND	1.75	1.62	1.22
3.00	250	F2332-ND	1.75	1.62	1.22
3.50	250	F2337-ND	1.75	1.62	1.22
4.00	250	F2333-ND	1.75	1.62	1.22
5.00	250	F2334-ND	1.75	1.62	1.22

Axial PICO®II CCC Approved Fuses 0316 Series

Dim. in Inch (mm)

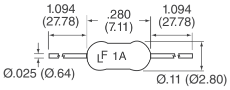

Specifications:
- **Operating Temperature:** -55°C ~ 125°C
- **Materials:** Body: Ceramic; Leads: Tin Coated Copper
- **Encapsulated:** Epoxy-Coated body
- **Interrupting Rating:** 50A @ 125VAC, 50A @ 125VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 5,000
0316 Series — Very Fast Acting						
.500	125	F2921CT-ND	.83	.77	F2921TR-ND	288.60/M
1.00	125	F2922CT-ND	.83	.77	F2922TR-ND	288.60/M
2.00	125	F2923CT-ND	.83	.77	F2923TR-ND	288.60/M
3.15	125	F2924CT-ND	.83	.77	F2924TR-ND	288.60/M
5.00	125	F2925CT-ND	.83	.77	F2925TR-ND	288.60/M

Littelfuse
Expertise Applied | Answers Delivered

Axial (3.6 x 10mm) Slo-Blo® Fuses 875 and 877 Series

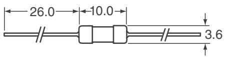

Single Pigtail Axial Lead 3.6mm x 10mm, Slo-Blo® Fuse.
Characteristics: • Materials: Body: Ceramic; Cap Nickel Plated Brass, Tin plated Copper • Operating Temperature: -55°C ~ 125°C
Features: • Ceramic body fuse in a compact package • **Series 875:** Designed to UL/CSA 248 Standard • **Series 877:** Designed to meet IEC 60127-3 Standard sheet 4
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Interrupting Rating @ 250VAC	Digi-Key Part No.	Price Each 5	100	250
875 Series (UL/CSA Approved)						
.100	250	50A	F3280-ND	2.67	1.94	1.72
.125	250	50A	F3281-ND	2.67	1.94	1.72
.200	250	50A	F3282-ND	2.67	1.94	1.72
.250	250	50A	F3283-ND	2.67	1.94	1.72
.300	250	50A	F3284-ND	2.67	1.94	1.72
.400	250	50A	F3285-ND	2.67	1.94	1.72
.500	250	50A	F3286-ND	2.13	1.55	1.37
.600	250	50A	F3287-ND	2.13	1.55	1.37
.800	250	50A	F3288-ND	2.13	1.55	1.37
1.0	250	50A	F3289-ND	2.00	1.45	1.29
1.5	250	50A	F3290-ND	2.00	1.45	1.29
1.6	250	50A	F3291-ND	2.00	1.45	1.29
2.0	250	50A	F3292-ND	2.00	1.45	1.29
2.5	250	50A	F3293-ND	2.00	1.45	1.29
3.0	250	50A	F3294-ND	2.00	1.45	1.29
4.0	250	50A	F3295-ND	2.00	1.45	1.29
5.0	250	50A	F3296-ND	2.00	1.45	1.29
877 Series (IEC Approved)						
2.0	250	35A	F3297-ND	1.38	1.01	.89
3.15	250	35A	F3298-ND	1.38	1.01	.89
4.0	250	40A	F3299-ND	1.38	1.01	.89
6.3	250	63A	F3300-ND	1.38	1.01	.89

SMD PICO®II Fuses 0459 and 0460 Series

Specifications:
• Operating Temperature: -55°C ~ 125°C • Materials: Body: Molded Thermoplastic; Terminations: Tin plated Copper • Interrupting Rating: **0459 Series:** 50A @ 125VAC, 300A @ 125VDC; **0460 Series:** 50A @ 125VAC, 50A @ 125VDC
Note: *See data sheet for detailed Amperage Safety Approvals.*

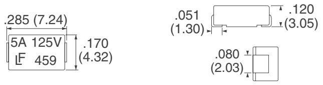

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T & R Pricing 500
0459 Series — Very Fast-Acting						
.062	125	F3155CT-ND	3.87	3.56	F3155TR-ND	824.80
.125	125	F1160CT-ND	1.77	1.63	F1160TR-ND	376.80
.250	125	F1161CT-ND	1.77	1.63	F1161TR-ND	376.80
.375	125	F1162CT-ND	1.77	1.63	F1162TR-ND	376.80
.500	125	F1163CT-ND	1.31	1.21	F1163TR-ND	280.00
.750	125	F1164CT-ND	1.31	1.21	F1164TR-ND	280.00
1.00	125	F1165CT-ND	1.31	1.21	F1165TR-ND	280.00
1.50	125	F1166CT-ND	1.31	1.21	F1166TR-ND	280.00
2.00	125	F1167CT-ND	1.31	1.21	F1167TR-ND	280.00
2.50	125	F1168CT-ND	1.31	1.21	F1168TR-ND	280.00
3.00	125	F1169CT-ND	1.31	1.21	F1169TR-ND	280.00
3.50	125	F1170CT-ND	1.31	1.21	F1170TR-ND	280.00
4.00	125	F1171CT-ND	1.31	1.21	F1171TR-ND	280.00
5.00	125	F1172CT-ND	1.31	1.21	F1172TR-ND	280.00
0460 Series — Slo-Blo®						
.375	125	F1180CT-ND	2.78	2.56	F1180TR-ND	592.80
.500	125	F1181CT-ND	2.78	2.56	F1181TR-ND	592.80
.750	125	F1182CT-ND	2.78	2.56	F1182TR-ND	592.80
1.00	125	F1183CT-ND	2.78	2.56	F1183TR-ND	592.80
1.50	125	F1184CT-ND	2.78	2.56	F1184TR-ND	592.80
2.00	125	F1185CT-ND	2.78	2.56	F1185TR-ND	592.80
2.50	125	F1186CT-ND	2.78	2.56	F1186TR-ND	592.80
3.00	125	F1187CT-ND	2.78	2.56	F1187TR-ND	592.80
3.50	125	F1188CT-ND	2.78	2.56	F1188TR-ND	592.80
4.00	125	F1189CT-ND	2.78	2.56	F1189TR-ND	592.80
5.00	125	F1190CT-ND	2.78	2.56	F1190TR-ND	592.80

Blade Fuses — ATO, MINI® and Maxi

Fig. 1

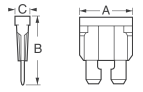

Series	Dimensions - Inch (mm) A	B	C
257/240	.75 (19.05)	.73 (18.54)	.20 (5.08)
299	1.15 (29.21)	1.35 (34.29)	.35 (8.85)

Fig. 2

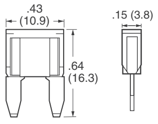

Fig. 3

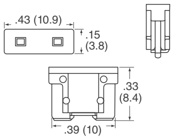

Designed and originated by Littelfuse for the automotive industry, the ATO fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. This fuse can also be specified for a variety of low voltage electronic applications.

Specifications: • Body Material: **257 Series:** Plastic; **240 Series:** Thermoplastic; **297, 299 and 891 Series:** Nylon • Color-Coding: Autofuse fuses are color-coded for easy amperage identification • Design Standards: UL Standard for Automotive Blade Type Fuses. SAE (Society of Automotive Engineers) J1284

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
Fig. 1 — 257 Series - ATO Fuses						
1.0	32V	Black	F2232-ND	.63	.46	.41
2.0	32V	Grey	F2233-ND	1.09	.79	.70
3.0	32V	Violet	F996-ND•	.63	.46	.41
4.0	32V	Pink	F997-ND	1.09	.79	.70
5.0	32V	Tan	F998-ND•	.87	.63	.56
7.5	32V	Brown	F999-ND•	.63	.46	.41
10	32V	Red	F1015-ND•	.87	.63	.56
15	32V	Blue	F1016-ND•	.87	.63	.56
20	32V	Yellow	F1017-ND•	.87	.63	.56
25	32V	Natural	F1018-ND•	.87	.63	.56
30	32V	Green	F1019-ND•	1.09	.79	.70
35	32V	Blue/Green	F2234-ND	1.09	.79	.70
40	32V	Amber	F1220-ND	1.09	.79	.70
Fig. 1 — 240 Series - ATO Shunt						
35	—	Black	F3117-ND	.77	.56	.50
Fig. 2 — 297 Series - Mini Fuses						
2.0	32V	Grey	F986-ND•	.77	.56	.50
3.0	32V	Violet	F987-ND•	.77	.56	.50
4.0	32V	Pink	F988-ND•	.77	.56	.50
5.0	32V	Tan	F989-ND•	.77	.56	.50
7.5	32V	Brown	F990-ND•	.77	.56	.50
10	32V	Red	F991-ND•	.77	.56	.50
15	32V	Blue	F992-ND•	.77	.56	.50
20	32V	Yellow	F993-ND•	.77	.56	.50
25	32V	Natural	F994-ND•	.77	.56	.50
30	32V	Green	F995-ND•	.77	.56	.50
Fig. 3 — 891 Series - Low Profile Mini Fuses						
5.0	58V	Tan	F3269-ND	.93	.68	.60
7.5	58V	Brown	F3270-ND	.93	.68	.60
10	58V	Red	F3271-ND	.93	.68	.60
15	58V	Blue	F3272-ND	.93	.68	.60
20	58V	Yellow	F3273-ND	.93	.68	.60
25	58V	Natural	F3274-ND	.93	.68	.60
30	58V	Green	F3275-ND	.93	.68	.60
Fig. 1 — 299 Series - Maxi Fuses						
20	32V	Yellow	F1035-ND	1.94	1.41	1.25
30	32V	Green	F1036-ND	1.94	1.41	1.25
40	32V	Amber	F1037-ND	1.94	1.41	1.25
50	32V	Red	F1038-ND	1.94	1.41	1.25
60	32V	Blue	F1039-ND	1.94	1.41	1.25

• 257-297-KIT-ND Digi-Key® 257/297 Series Fuse *Mini and ATO*
5 each of parts indicated, plus a plastic storage box **$57.56**

MIDI® Bolt-down Terminal Fuses 0498 Series

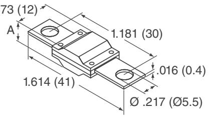

MIDI Fuse offers a bolt-on space saving fuse for high current wiring protection and provides time delay characteristics with "Diffusion Pill Technology".
Specifications: • Ambient Temperature: -40°C ~ 125°C • Interrupting Rating: 1000A @ 32VDC • Material: Body: Glass filled Thermoplastic
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
0498 Series (Time Lag)						
40	32	.315 (8.0)	F3089-ND	6.91	6.38	4.79
50	32	.315 (8.0)	F3090-ND	6.91	6.38	4.79
60	32	.315 (8.0)	F3091-ND	6.91	6.38	4.79
80	32	.315 (8.0)	F3092-ND	6.91	6.38	4.79
100	32	.327 (8.3)	F3093-ND	7.24	6.69	5.02

MIDI® Bolt-down Fuseholder

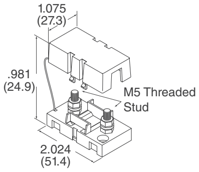

Use with MIDI fuses up to 200A.

Includes: • Protective cover • M5 threaded studs and hex nuts with lock washers (fuse not included).

Features: • Interconnecting pins on side of fuse block for secure multiple block configurations.

F3094-ND (04980900Z) **$15.45/1; $142.62/10; $1069.65/100**

MEGA® Bolt-down Fuses 0298 Series

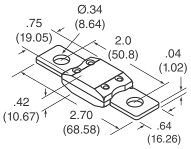

MEGA Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology". The MEGA fuse also provides time delay characteristics.

Specifications:

• Operating Temperature Range: 40°C ~ 125°C • Interrupting Rating: 2000A @ 32VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0298 Series (Time Lag)					
80	32	F3320-ND	7.62	7.04	5.28
100	32	F3322-ND	7.62	7.04	5.28
125	32	F3323-ND	7.62	7.04	5.28
150	32	F3324-ND	7.62	7.04	5.28
175	32	F3325-ND	7.62	7.04	5.28
200	32	F3326-ND	7.62	7.04	5.28
250	32	F3327-ND	7.62	7.04	5.28

NEW! MEGA® Bolt-down Fuseholder

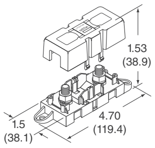

Use with MEGA fuses up to 500A.

Includes: • Protective cover • M8 threaded studs and hex nuts with lock washers (fuse not included).

Features: • Interconnecting pins on side of fuse block for secure multiple block configurations.

F3470-ND (02981001ZXT)..............**$21.96/1; $202.71/10; $1520.33/100**

Alarm Indicating Fuses 0481 Series

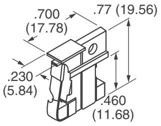

Alarm Indicating Fuses are ideal for telecom and control panel circuits. Color coded flag conforms to telecom color standards to easily identify amperage ratings.

This series has enhancements with an expanded amperage range and higher interrupting ratings, making this a viable replacement for competitive lines such as Bussmann: GMT and San-O: AX-1 series product.

Specifications: • **Voltage Rating:** 125VAC/VDC • **Operating Temperature Range:** -55°C ~ 125°C • **Construction Materials:** Body: Polyphenylene Sulfide (UL 94V0) Terminations: Beryllium Copper, Tin Plated • **Interrupting Rating:** 450A @ 60VDC; 300A @ 125 VAC/VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
0481 Series — Alarm Indicating Type					
2.0	Orange	F719-ND	3.16	2.92	2.19
3.0	Blue	F720-ND	3.16	2.92	2.19
4.0	Brown/White	F722-ND	3.16	2.92	2.19
5.0	Green	F723-ND	3.16	2.92	2.19
7.5	Black/White	F724-ND	3.16	2.92	2.19
10	Red/White	F725-ND	3.16	2.92	2.19
12	Green/Yellow	F726-ND	3.16	2.92	2.19
15	Red/Blue	F727-ND	3.16	2.92	2.19

Littelfuse
Expertise Applied | Answers Delivered

SMD 350V Fuses 0446 Series

Ideal for use in electronic lighting ballast, power supply and power inverter applications • Rated for use in 125, 250, 277 and 350VAC circuits.
Specifications: • Operating Temperature: -40°C ~ 125°C **• Materials:** Nylon Body; Silver Plated Zinc Terminations **• Interrupting Ratings:** 100A @ 350VAC **• Packaging Specifications:** 24mm Tape and Reel per EIA-RS481 (equivalent to IEC 286, part 3); 800 fuses per reel

Note: *See data sheet for detailed Amperage Safety Approvals.*

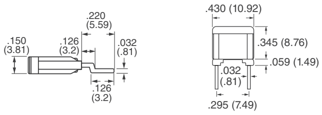

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800
0446P Series — Fast Acting						
2.0	F2709CT-ND	1.27	1.17	.99	F2709TR-ND	433.92
3.0	F2710CT-ND	1.27	1.17	.99	F2710TR-ND	433.92
5.0	F2711CT-ND	1.27	1.17	.99	F2711TR-ND	433.92
7.5	F2712CT-ND	1.27	1.17	.99	F2712TR-ND	433.92
10	F2713CT-ND	1.27	1.17	.99	F2713TR-ND	433.92

Barrier Network Fuses 0242 Series

Part No.	Color Coding
F1290, F3317	Red
F1291	Green
F1292, F3318	Blue
F1293	Violet
F1294	Brown
F1295, F3319	Black

Meets Barrier Network Standards (EN50020) for hazardous applications. High interrupting rating **Specifications: • Voltage Rating:** 250V **• Interrupting Ratings:** 4000A @ 250 VAC/VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Axial

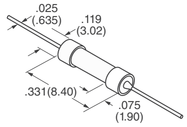

SMD

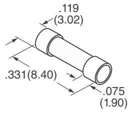

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 500
0242 Series — Axial						
.050	F1290CT-ND	5.90	5.43	4.57	F1290TB-ND	1258.40
.080	F1291CT-ND	5.90	5.43	4.57	F1291TB-ND	1258.40
.100	F1292CT-ND	5.90	5.43	4.57	F1292TB-ND	1258.40
.160	F1293CT-ND	5.90	5.43	4.57	F1293TB-ND	1258.40
.200	F1294CT-ND	5.90	5.43	4.57	F1294TB-ND	1258.40
.250	F1295CT-ND	5.90	5.43	4.57	F1295TB-ND	1258.40
0242 Series — SMD						
.050	F3317CT-ND	5.90	5.43	4.57	F3317TR-ND†	1258.40
.100	F3318CT-ND	5.90	5.43	4.57	F3318TR-ND†	1258.40
.250	F3319CT-ND	5.90	5.43	4.57	F3319TR-ND†	1258.40

† Tape and Reel

Safe-T-Plus Fuses 0259 Series

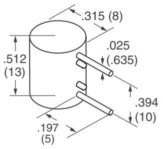

Designed to allow equipment to meet "Intrinsically Safe" certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits.
Specifications: • Hermetically sealed **• Voltage Rating:** 125V **• Interrupting Ratings:** 50A @ 125VAC; 300A @ 125VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Drop	Digi-Key Part No.	Price Each 1	100	250
0259 Series					
.062	2.1	F1311-ND	5.11	3.54	3.15
.125	1.3	F1312-ND	5.11	3.54	3.15
.250	0.83	F1313-ND	5.11	3.54	3.15
.500	0.78	F1315-ND	5.11	3.54	3.15
1.0	0.24	F1317-ND	5.11	3.54	3.15

Schedule of Limitations:

1. The fuse must be so mounted that creepage and clearance distances meet the requirements of Table 2 of EN50020: 1977 or Table 4 of EN500020: 1994 (equivalent to IEC 60079-11 4th Edition 1999).
2. When used in intrinsically safe apparatus it will be necessary to determine a surface temperature classification for the fuse.

Radial Lead MICRO™ Fuses 0273 Series

QPL

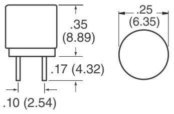

Specifications:
- **Operating Temperature Range:** -55°C ~ 85°C
- **Interrupting Ratings:** 10,000A @ 125VAC/VDC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	100	250
0273 Series — Very Fast Acting					
.050	125	F855-ND	6.46	4.48	3.98
.062	125	F856-ND ***NEW!***	9.90	6.86	6.10
.100	125	F857-ND	6.39	4.43	3.93
.125	125	F858-ND	6.39	4.43	3.93
.200	125	F859-ND	9.90	6.86	6.10
.250	125	F860-ND	6.39	4.43	3.93
.300	125	F861-ND	6.39	4.43	3.93
.400	125	F862-ND	6.39	4.43	3.93
.500	125	F863-ND	6.39	4.43	3.93
.600	125	F864-ND	9.90	6.86	6.10
.750	125	F866-ND	6.46	4.48	3.98
1.0	125	F868-ND	6.39	4.43	3.93
1.5	125	F869-ND	6.39	4.43	3.93
2.0	125	F870-ND	6.39	4.43	3.93
3.0	125	F871-ND	6.39	4.43	3.93
4.0	125	F872-ND	6.39	4.43	3.93
5.0	125	F873-ND	6.39	4.43	3.93

2AG Subminiature Fast-Acting Fuses 224P and 225P Series

Dimensions: • Cartridge: Diameter: .177" (4.50mm); Length: .57" (14.48mm) **• Axial:** Diameter: .184" (4.7mm); Length: .57" (14.48mm) **• Leads:** Diameter: .025" (.64mm); Length Typical: 1.50" (38.10mm) **• Axial Lead Material:** Tinned copper wire

Note: See data sheet for detailed Amperage Safety Approvals.

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
224P Series — Axial Type					
.250	250	F2432-ND	1.14	.83	.73
.375	250	F2433-ND	.87	.63	.56
.500	250	F2434-ND	.87	.63	.56
.750	250	F2435-ND	.87	.63	.56
1.0	250	F2436-ND	.87	.63	.56
1.5	250	F2443-ND	.87	.63	.56
2.0	250	F2437-ND	.87	.63	.56
2.5	250	F2445-ND	.87	.63	.56
3.0	250	F2438-ND	.87	.63	.56
3.5	250	F2446-ND	.87	.63	.56
225P Series — Cartridge Type					
.250	250	F2448-ND	.85	.62	.55
.375	250	F2449-ND	.59	.43	.38
.500	250	F2450-ND	.59	.43	.38
.750	250	F2451-ND	.59	.43	.38
1.0	250	F2452-ND	.59	.43	.38
1.5	250	F2460-ND	.59	.43	.38
2.0	250	F2453-ND	.59	.43	.38
2.5	250	F2462-ND	.59	.43	.38
3.0	250	F2454-ND	.59	.43	.38
3.5	250	F2463-ND	.59	.43	.38

2AG Subminiature Slo-Blo® Fuses 229P and 230P Series

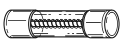

Dimensions: • Cartridge: Diameter: 177" (4.50mm); Length: .57" (14.48mm) **• Axial:** Diameter: .184" (4.7mm); Length: .57" (14.48mm) **• Leads:** Diameter: .025" (.64mm); Length: 1.50" (38.10mm) **• Axial Lead Material:** Tin coated copper

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
229P Series — Cartridge Type					
.250	250	F2464-ND	.68	.49	.44
.375	250	F2465-ND	.68	.49	.44
.500	250	F2466-ND	.68	.49	.44
.750	250	F2467-ND	.68	.49	.44
1.00	250	F2468-ND	.68	.49	.44
1.25	250	F2477-ND	.68	.49	.44
1.50	250	F2474-ND	.68	.49	.44
2.00	250	F2469-ND	.68	.49	.44
2.25	250	F2478-ND	.68	.49	.44
2.50	250	F2475-ND	.68	.49	.44
3.00	250	F2470-ND	.68	.49	.44
3.50	250	F2476-ND	.68	.49	.44
4.00	125	F2471-ND	.68	.49	.44
5.00	125	F2472-ND	.68	.49	.44
7.00	125	F2473-ND	.68	.49	.44
230P Series — Axial Type					
.250	250	F2479-ND	.97	.70	.62
.375	250	F2480-ND	.97	.70	.62
.500	250	F2481-ND	.97	.70	.62
.750	250	F2482-ND	.97	.70	.62
1.00	250	F2483-ND	.97	.70	.62
1.25	250	F2492-ND	.97	.70	.62
1.50	250	F2489-ND	.97	.70	.62
2.00	250	F2484-ND	.97	.70	.62
2.50	250	F2490-ND	.97	.70	.62
3.00	250	F2485-ND	.97	.70	.62
3.50	250	F2491-ND	.97	.70	.62
4.00	125	F2486-ND	.97	.70	.62
5.00	125	F2487-ND	.97	.70	.62
6.00	125	F3110-ND	.97	.70	.62
7.00	125	F2488-ND	.97	.70	.62

(5x20mm) Metric Fuses
(IEC Standards)

- **Operating Temperature:** -55°C ~ 125°C
- **Interrupting Rating:**

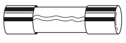

213P Series: (.250 ~ 3.15A) 35A @ 250VAC; (5A) 50A @ 250VAC; (6.3A) 63A @ 250VAC **215P Series:** (.200 ~ 12A) 1500A @ 250VAC; (15A) 500A, (20A) 400A; (25A) 300A **216P Series:** 1500A @ 250VAC **217P Series:** 35A or 10 x rated current, whichever is greater to a maximum of 100A @ 250VAC **218P Series:** (.032A ~ 3.15A) 35A @ 250VAC; (4A) 40A @ 250VAC; (5A) 50A @ 250VAC; (6.3A) 63A @ 250VAC; (8A) 80A @ 250VAC; (10A and 15A) 100A @ 250VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
213P — Series Slo-Blo® Low Breaking Capacity; Glass Body					
.250	250	F3310-ND	1.29	.94	.84
.315	250	F3311-ND	.88	.64	.57
.500	250	F3312-ND	.88	.64	.57
1.00	250	F3084-ND	.88	.64	.57
1.60	250	F3308-ND	.88	.64	.57
2.00	250	F3085-ND	.88	.64	.57
2.50	250	F3309-ND	.88	.64	.57
3.15	250	F3086-ND	.88	.64	.57
5.00	250	F3087-ND	.88	.64	.57
6.30	250	F3088-ND	.88	.64	.57
215P — Series Slo-Blo® High Breaking Capacity; Ceramic Body — Cartridge Type					
.200	250	F3313-ND	1.43	1.04	.92
1.00	250	F2659-ND	1.51	1.10	.98
1.25	250	F2660-ND	1.51	1.10	.98
1.60	250	F2661-ND	1.51	1.10	.98
2.00	250	F2662-ND	1.51	1.10	.98
2.50	250	F2663-ND	1.51	1.10	.98
3.15	250	F2664-ND	1.51	1.10	.98
4.00	250	F2665-ND	1.51	1.10	.98
5.00	250	F2666-ND	1.51	1.10	.98
6.30	250	F2667-ND	1.51	1.10	.98
8.00	250	F2668-ND	1.51	1.10	.98
10.00	250	F2669-ND	1.51	1.10	.98
12.00	250	F3250-ND	1.45	1.05	.93
15.00	250	F3251-ND	1.59	1.15	1.03
20.00	250	F3252-ND	1.73	1.26	1.12
25.00	250	F3253-ND	1.73	1.26	1.12
NEW! 215P — Series Slo-Blo® High Breaking Capacity; Ceramic Body — Axial Type NEW!					
1.00	250	F3476-ND	2.05	1.49	1.33
2.00	250	F3477-ND	2.05	1.49	1.33
3.15	250	F3478-ND	2.05	1.49	1.33
5.00	250	F3479-ND	2.05	1.49	1.33
6.30	250	F3480-ND	2.05	1.49	1.33
10.00	250	F3481-ND	2.05	1.49	1.33
12.00	250	F3482-ND	2.05	1.49	1.33
216P Series — Fast-Acting High Breaking Capacity; Ceramic Body					
.050	250	F2354-ND•	1.88	1.37	1.21
.080	250	F2355-ND	1.50	1.09	.97
.100	250	F2356-ND•	1.50	1.09	.97
.125	250	F2357-ND•	1.50	1.09	.97
.160	250	F2358-ND	1.50	1.09	.97
.200	250	F2359-ND	1.50	1.09	.97
.250	250	F2360-ND•	1.50	1.09	.97
.315	250	F2361-ND•	1.50	1.09	.97
.400	250	F2362-ND	1.50	1.09	.97
.500	250	F2363-ND•	1.50	1.09	.97
.630	250	F2364-ND•	1.50	1.09	.97
.800	250	F2365-ND•	1.50	1.09	.97
1.00	250	F2366-ND•	1.35	.98	.87
1.25	250	F2375-ND•	1.35	.98	.87
1.60	250	F2371-ND	1.35	.98	.87
2.00	250	F2367-ND•	1.35	.98	.87
2.50	250	F2373-ND•	1.35	.98	.87
3.15	250	F2376-ND•	1.35	.98	.87
4.00	250	F2368-ND•	1.35	.98	.87
5.00	250	F2369-ND•	1.35	.98	.87
6.30	250	F2374-ND•	1.35	.98	.87
8.00	250	F2370-ND•	1.35	.98	.87
10.00	250	F2372-ND•	1.35	.98	.87
217P Series — Fast Acting Low Breaking Capacity; Glass Body					
.032	250	F2377-ND	1.81	1.31	1.17
.050	250	F2379-ND	1.81	1.31	1.17
.063	250	F2380-ND	1.81	1.31	1.17
.080	250	F2381-ND	1.06	.77	.69
.100	250	F2382-ND•	1.06	.77	.69
.125	250	F2383-ND•	1.06	.77	.69
.160	250	F2384-ND	1.06	.77	.69

(Continued)

Littelfuse
Expertise Applied | Answers Delivered

(5x20mm) Metric Fuses (IEC Standards) *(Cont.)*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
.200	250	F2385-ND	1.06	.77	.69
.250	250	F2386-ND•	1.06	.77	.69
.315	250	F2387-ND•	1.06	.77	.69
.400	250	F2388-ND	.33	.24	.21
.500	250	F2389-ND•	.33	.24	.21
.630	250	F2390-ND•	.33	.24	.21
.800	250	F2391-ND•	.33	.24	.21
1.00	250	F2392-ND•	.33	.24	.21
1.25	250	F2402-ND•	.33	.24	.21
1.60	250	F2397-ND•	.33	.24	.21
2.00	250	F2393-ND•	.33	.24	.21
2.50	250	F2400-ND•	.33	.24	.21
3.15	250	F2403-ND•	.33	.24	.21
4.00	250	F2394-ND•	.33	.24	.21
5.00	250	F2395-ND•	.33	.24	.21
6.30	250	F2401-ND•	.33	.24	.21
8.00	250	F2396-ND•	.33	.24	.21
10.00	250	F2398-ND•	.33	.24	.21
15.00	250	F2399-ND	.33	.24	.21
NEW! 217P Series — Axial Type — Fast Acting Low Breaking Capacity; Glass Body NEW!					
.500	250	F3469-ND	.89	.65	.58
218P Series — Slo-Blo® Low Breaking Capacity; Glass Body					
.032	250	F2404-ND	2.42	1.76	1.56
.040	250	F2405-ND	2.42	1.76	1.56
.050	250	F2406-ND	2.42	1.76	1.56
.063	250	F2407-ND	2.42	1.76	1.56
.080	250	F2408-ND	2.42	1.76	1.56
.100	250	F2409-ND•	1.41	1.03	.91
.125	250	F2410-ND•	1.41	1.03	.91
.160	250	F2411-ND	1.41	1.03	.91
.200	250	F2412-ND	1.41	1.03	.91
.250	250	F2413-ND•	1.41	1.03	.91
.315	250	F2414-ND•	1.41	1.03	.91
.400	250	F2415-ND	1.41	1.03	.91
.500	250	F2416-ND•	.97	.71	.63
.630	250	F2417-ND•	.97	.71	.63
.800	250	F2418-ND•	.97	.71	.63
1.00	250	F2419-ND•	.97	.71	.63
1.25	250	F2429-ND•	.97	.71	.63
1.60	250	F2424-ND•	.97	.71	.63
2.00	250	F2420-ND•	.97	.71	.63
2.50	250	F2427-ND•	.97	.71	.63
3.15	250	F2430-ND•	.97	.71	.63
4.00	250	F2421-ND•	.97	.71	.63
5.00	250	F2422-ND•	.97	.71	.63
6.30	250	F2428-ND•	.97	.71	.63
8.00	250	F2423-ND•	1.51	1.10	.98
10.00	250	F2425-ND•	1.51	1.10	.98
15.00	250	F2426-ND	1.51	1.10	.98

- **216P-KIT-ND Digi-Key® 216 Series Fuse *Fast Acting High Breaking Capacity*** 5 each of parts indicated, plus a plastic storage box ***RoHS Compliant*** **$119.95**
- **217P-KIT-ND Digi-Key® 217 Series Fuse *Fast Acting*** 5 each of parts indicated, plus a plastic storage box ***RoHS Compliant*** **$69.80**
- **218P-KIT-ND Digi-Key® 218 Series Fuse *Slo-Blo® Type*** 5 each of parts indicated, plus a plastic storage box ***RoHS Compliant*** **$131.87**

(5x20mm) Metric Fuses 234P, 235P and 239P Series

(UL Standards)

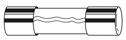

- **Operating Temperature:** -55°C ~ 125°C
- Designed to UL/CSA/ANCE 248 Standard

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
234P Series — Medium-Acting					
1.00	250	F2686-ND	.92	.67	.60
1.60	250	F2687-ND	.92	.67	.60
2.00	250	F2688-ND	.92	.67	.60
2.50	250	F2689-ND	.92	.67	.60
3.00	250	F2690-ND	.92	.67	.60
3.15	250	F3316-ND	.92	.67	.60
3.50	250	F2691-ND	.92	.67	.60
4.00	250	F2692-ND	.92	.67	.60
5.00	250	F2693-ND	.92	.67	.60
6.00	250	F2694-ND	.92	.67	.60
6.30	250	F3315-ND	.92	.67	.60
8.00	250	F3314-ND	.92	.67	.60
10.00	250	F3111-ND	.92	.67	.60
235P Series — Fast-Acting					
.100	250	F3112-ND	.87	.63	.56
.250	250	F2670-ND	.87	.63	.56
.300	250	F2671-ND	.87	.63	.56
.400	250	F2672-ND	.87	.63	.56
.500	250	F2673-ND	.47	.34	.31
.600	250	F2674-ND	.47	.34	.31
.700	250	F2675-ND	.47	.34	.31
.800	250	F2676-ND	.47	.34	.31
1.00	250	F2677-ND	.39	.28	.25
1.25	250	F2678-ND	.39	.28	.25
1.60	250	F2679-ND	.39	.28	.25
2.00	250	F2680-ND	.39	.28	.25
2.50	250	F2681-ND	.39	.28	.25
3.00	250	F2682-ND	.39	.28	.25
4.00	125	F2683-ND	.39	.28	.25
5.00	125	F2684-ND	.39	.28	.25
6.00	125	F2685-ND	.39	.28	.25
239P Series — Time Lag Slo-Blo®					
.200	250	F3113-ND	1.20	.87	.78
.250	250	F2695-ND	1.20	.87	.78
.300	250	F2696-ND	1.20	.87	.78
.400	250	F2697-ND	.92	.67	.60
.500	250	F2698-ND	.92	.67	.60
.600	250	F2699-ND	.92	.67	.60
.700	250	F2700-ND	.92	.67	.60
.800	250	F2701-ND	.92	.67	.60
1.00	250	F2702-ND	.92	.67	.60
1.25	250	F2703-ND	.92	.67	.60
1.60	250	F2704-ND	.92	.67	.60
2.00	250	F2705-ND	.92	.67	.60
2.50	250	F2706-ND	.92	.67	.60
3.00	250	F2707-ND	.92	.67	.60
4.00	125	F3114-ND	.92	.67	.60
5.00	125	F3115-ND	.92	.67	.60
7.00	125	F3116-ND	.88	.64	.57

(5x20mm) Metric 500VAC/400VDC Fuses 477P Series (IEC Standards)

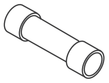

- **Voltage Rating:** 500VAC 400VDC
- **Operating Temperature:** -55°C ~ 125°C
- **Material:** Body: Ceramic
- Cap: Nickel-plated Brass
- Leads: Tin-plated Copper
- **Interrupting Rating:** (0.5A ~ 3.15A) 100A @ 500VAC, 1500A @ 400VDC; (4A ~ 8A) 100A @ 500VAC, 500A @ 400VDC; (10A ~ 16A) 100A @ 500VAC

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Digi-Key Part No.	Price Each 5	100	250	Littelfuse Part No.
477P Series — Slo-Blo® - Surge Withstand					
.500	F2985-ND	1.44	1.05	.93	0477.500MXP
1.00	F2986-ND	1.44	1.05	.93	0477001.MXP
2.00	F2987-ND	1.44	1.05	.93	0477002.MXP
3.15	F2988-ND	1.44	1.05	.93	04773.15MXP
4.00	F2989-ND	1.44	1.05	.93	0477004.MXP
5.00	F2990-ND	1.44	1.05	.93	0477005.MXP
6.30	F2991-ND	1.44	1.05	.93	047706.3MXP
8.00	F2992-ND	1.67	1.21	1.08	0477008.MXP
10.00	F2993-ND	1.67	1.21	1.08	0477010.MXP
12.00	F2994-ND	2.05	1.49	1.32	0477012.MXP
16.00	F2995-ND	2.05	1.49	1.32	0477016.MXP

3AB Ceramic Body Fast-Acting Fuses 314P and 324P Series

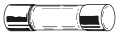

- **Dimensions:** Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm).

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
314P Series — Cartridge Type - RoHS Compliant					
.375	250	F3211-ND	.94	.68	.61
.500	250	F3212-ND	.94	.68	.61
.750	250	F3213-ND	.94	.68	.61
1.00	250	F3214-ND	.94	.68	.61
2.00	250	F3215-ND	.94	.68	.61
3.00	250	F3216-ND	.94	.68	.61
4.00	250	F3217-ND	.94	.68	.61
5.00	250	F3218-ND	.94	.68	.61
6.00	250	F3219-ND	.94	.68	.61
7.00	250	F3220-ND	.94	.68	.61
8.00	250	F3221-ND	.94	.68	.61
10.00	250	F3222-ND	.94	.68	.61
12.00	250	F3223-ND	.94	.68	.61
15.00	250	F3224-ND	.94	.68	.61
20.00	250	F3225-ND	1.39	1.01	.90
25.00	250	F3226-ND	1.39	1.01	.90
30.00	250	F3227-ND	1.39	1.01	.90
324P Series — Axial Type - RoHS Compliant					
10.00	250	F3328-ND	1.59	1.16	1.03
12.00	250	F3329-ND	1.59	1.16	1.03
15.00	250	F3330-ND	1.59	1.16	1.03
20.00	250	F3331-ND	2.09	1.52	1.35
25.00	250	F3332-ND	2.09	1.52	1.35
30.00	250	F3333-ND	2.09	1.52	1.35

3AB Ceramic Body Slo-Blo® Fuses 325P and 326P Series

Dimensions:
Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
325P Series — Axial Type					
10	250	F3334-ND	2.29	1.66	1.48
15	250	F3335-ND	2.29	1.66	1.48
20	250	F3336-ND	2.29	1.66	1.48
30	125	F3337-ND	2.29	1.66	1.48
326P Series — Cartridge Type					
.010	250	F2619-ND	4.22	3.06	2.72
.031	250	F2620-ND	4.22	3.06	2.72
.100	250	F2622-ND	4.22	3.06	2.72
.125	250	F2623-ND	4.22	3.06	2.72
.175	250	F2625-ND	1.74	1.26	1.12
.200	250	F2627-ND	1.74	1.26	1.12
.250	250	F2628-ND	1.74	1.26	1.12
.300	250	F2629-ND	1.74	1.26	1.12
.375	250	F2630-ND	1.74	1.26	1.12
.400	250	F2631-ND	1.74	1.26	1.12
.500	250	F2632-ND	1.74	1.26	1.12
.600	250	F2633-ND	1.74	1.26	1.12
.750	250	F2635-ND	1.74	1.26	1.12
.800	250	F2636-ND	1.74	1.26	1.12
1.00	250	F2637-ND	1.74	1.26	1.12
1.25	250	F2656-ND	1.74	1.26	1.12
1.50	250	F2645-ND	1.74	1.26	1.12
1.60	250	F2646-ND	1.74	1.26	1.12
2.00	250	F2638-ND	1.74	1.26	1.12
2.50	250	F2650-ND	1.74	1.26	1.12
3.00	250	F2639-ND	1.74	1.26	1.12
3.20	250	F2654-ND	1.74	1.26	1.12
4.00	250	F2640-ND	1.74	1.26	1.12
5.00	250	F2641-ND	1.74	1.26	1.12
6.25	250	F2657-ND	1.74	1.26	1.12
7.00	250	F2642-ND	1.74	1.26	1.12
8.00	250	F2643-ND	1.74	1.26	1.12
10.00	250	F2647-ND	1.74	1.26	1.12
12.00	250	F2648-ND	1.74	1.26	1.12
15.00	250	F2649-ND	1.74	1.26	1.12
20.00	250	F2652-ND	1.74	1.26	1.12
25.00	125	F2653-ND	1.74	1.26	1.12
30.00	125	F2655-ND	1.74	1.26	1.12

3AB 450/500 Voltage Ceramic Body Fuses 505(E)P Series

- Operating Temperature: -55°C ~ 125°C

Materials: • Body: Ceramic • Cap: Nickel-plated brass
- Leads: Tin-plated Copper

Dimensions: 505P Series: Diameter: .25" (6.35mm); Length: 1.25" (31.75mm). **505EP Series:** Diameter: .275" (6.985mm); Length: 1.288" (32.72mm); Axial Diameter: 10A ~ 16A: .032" (.813mm), 20A ~ 30A: .040" (1.016mm); Axial Length: 1.5" typical (38.1mm)
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Maximum Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
505P Series — Fast Acting - Cartridge					
10.00	450	F3254-ND	3.45	2.51	2.23
15.00	500	F3256-ND	4.15	3.02	2.68
16.00	500	F3257-ND	3.93	2.86	2.54
20.00	500	F3258-ND	3.93	2.86	2.54
25.00	500	F3259-ND	4.54	3.30	2.93
30.00	500	F3260-ND	4.54	3.30	2.93
505EP Series — Fast Acting - Axial					
10.00	450	F3261-ND	3.98	2.89	2.57
15.00	500	F3263-ND	3.59	2.61	2.32
16.00	500	F3264-ND	4.73	3.43	3.05
20.00	500	F3265-ND	4.73	3.43	3.05
25.00	500	F3266-ND	5.34	3.88	3.45
30.00	500	F3267-ND	5.34	3.88	3.45

NEW! 3AB 600/1000 VAC/DC High Voltage Ceramic Fuses 508 Series

- Operating Temperature: -55°C ~ 125°C

Materials: • Body: Ceramic • Cap: Nickel-plated brass

Dimensions: 508 Series: Diameter: .25" (6.35mm); Length: 1.25" (31.75mm).

Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Maximum Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
508 Series — Cartridge Type					
.315	1000	F3568-ND	4.03	2.93	2.60
.500	1000	F3569-ND	4.03	2.93	2.60
.315	600	F3570-ND	4.65	3.38	3.00
.500	600	F3571-ND	4.65	3.38	3.00

Littelfuse

Expertise Applied | Answers Delivered

3AG Glass Body Fast-Acting Fuses 312P and 318P Series

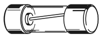

Dimensions:
312P Series: Diameter: .25” (6.35mm); Length: 1.25” (31.75mm).
318P Series: Diameter: .275” (6.98mm); Length: 1.288” (32.72mm); Axial Diameter: .032” (.813mm); Axial Length: 1.50” (38.1mm); Axial Lead Material: Tin coated copper.
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
312P Series — Cartridge Type					
.062	250	F2495-ND•	2.06	1.50	1.33
.100	250	F2496-ND•	2.06	1.50	1.33
.125	250	F2497-ND•	1.20	.87	.77
.150	250	F2498-ND•	1.20	.87	.77
.175	250	F2499-ND•	1.20	.87	.77
.187	250	F2500-ND	1.20	.87	.77
.200	250	F2501-ND•	1.20	.87	.77
.250	250	F2502-ND•	1.20	.87	.77
.300	250	F2503-ND•	1.20	.87	.77
.375	250	F2504-ND•	.35	.26	.23
.500	250	F2505-ND•	.35	.26	.23
.600	250	F2506-ND•	.35	.26	.23
.750	250	F2507-ND•	.35	.26	.23
1.00	250	F2508-ND•	.35	.26	.23
1.25	250	F2521-ND•	.35	.26	.23
1.50	250	F2516-ND•	.35	.26	.23
1.60	250	F2517-ND•	.35	.26	.23
1.75	250	F2522-ND•	.35	.26	.23
1.80	250	F2518-ND•	.35	.26	.23
2.00	250	F2509-ND•	.35	.26	.23
2.25	250	F2523-ND•	.35	.26	.23
2.50	250	F2520-ND•	.35	.26	.23
3.00	250	F2510-ND•	.35	.26	.23
4.00	250	F2511-ND•	.35	.26	.23
5.00	250	F2512-ND•	.35	.26	.23
6.00	250	F2513-ND•	.35	.26	.23
7.00	250	F2514-ND•	.35	.26	.23
8.00	250	F2515-ND•	.35	.26	.23
10.00	250	F2519-ND•	.35	.26	.23
15.00	32	F2764-ND	.65	.47	.42
20.00	32	F2765-ND	.62	.45	.40
25.00	32	F2766-ND	.65	.47	.42
30.00	32	F2767-ND	.65	.47	.42
318P Series — Axial Type					
.125	250	F3245-ND	1.94	1.41	1.25
.250	250	F3246-ND	1.94	1.41	1.25
.300	250	F3247-ND	1.94	1.41	1.25
.375	250	F3248-ND	.86	.63	.56
.500	250	F3249-ND	.86	.63	.56
1.00	250	F2608-ND	.86	.63	.56
1.50	250	F2616-ND	.86	.63	.56
2.00	250	F2609-ND	.86	.63	.56
2.50	250	F2618-ND	.86	.63	.56
3.00	250	F2610-ND	.86	.63	.56
4.00	250	F2611-ND	.86	.63	.56
5.00	250	F2612-ND	.86	.63	.56
6.00	250	F2613-ND	.86	.63	.56
7.00	250	F2614-ND	.86	.63	.56
8.00	250	F2615-ND	.86	.63	.56

- **312P-KIT-ND Digi-Key® 312 Series** ***Fast Acting 3AG Cartridge*** 5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box

RoHS Compliant **$174.22**

3AG Glass Body Slo-Blo® Fuses 313P and 315P Series

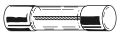

Dimensions:
313P Series: Diameter: .25” (6.35mm); Length: 1.25” (31.75mm).
315P Series: Diameter: .275” (6.98mm); Length: 1.275” (32.38mm); Axial Diameter: 1/100A ~ 15A: .032” (.813mm), 20A ~ 30A: .040” (1.016mm); Axial Lead Material: Tin coated copper.
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
313P Series — Cartridge Type					
.010	250	F2524-ND	4.25	3.09	2.74
.031	250	F2525-ND	4.25	3.09	2.74
.040	250	F2526-ND•	4.25	3.09	2.74
.062	250	F2527-ND•	2.19	1.59	1.42
.100	250	F2528-ND•	2.19	1.59	1.42
.125	250	F2529-ND•	2.19	1.59	1.42
.150	250	F2530-ND	2.19	1.59	1.42
.175	250	F2531-ND	1.27	.92	.82
.187	250	F2532-ND•	1.27	.92	.82
.200	250	F2533-ND•	1.27	.92	.82
.250	250	F2534-ND•	1.27	.92	.82
.300	250	F2535-ND•	1.27	.92	.82
.375	250	F2536-ND•	1.27	.92	.82
.400	250	F2537-ND•	1.27	.92	.82
.500	250	F2538-ND•	.97	.70	.62
.600	250	F2539-ND•	.97	.70	.62
.700	250	F2540-ND	.97	.70	.62
.750	250	F2541-ND•	.97	.70	.62
.800	250	F2542-ND•	.97	.70	.62
1.00	250	F2543-ND•	.97	.70	.62
1.20	250	F2550-ND	.97	.70	.62
1.25	250	F2564-ND•	.97	.70	.62
1.50	250	F2551-ND•	.97	.70	.62
1.60	250	F2552-ND•	.97	.70	.62
1.80	250	F2553-ND	.97	.70	.62
2.00	250	F2544-ND•	.97	.70	.62
2.25	250	F2565-ND•	.97	.70	.62
2.50	250	F2557-ND•	.97	.70	.62
2.80	250	F2558-ND	.97	.70	.62
3.00	250	F2545-ND•	.97	.70	.62
3.20	250	F2561-ND•	.97	.70	.62
4.00	250	F2546-ND•	1.11	.81	.72
5.00	250	F2547-ND•	1.11	.81	.72
6.25	250	F2566-ND•	1.11	.81	.72
6.30	250	F2563-ND	1.11	.81	.72
7.00	250	F2548-ND•	1.11	.81	.72
8.00	250	F2549-ND•	1.11	.81	.72
10.00	32	F2554-ND•	1.11	.81	.72
12.00	32	F2555-ND•	1.11	.81	.72
15.00	32	F2556-ND•	1.11	.81	.72
20.00	32	F2559-ND•	1.41	1.03	.91
25.00	32	F2560-ND•	1.41	1.03	.91
30.00	32	F2562-ND•	1.41	1.03	.91
315P Series — Axial Type					
.100	250	F3228-ND	3.77	2.74	2.43
.300	250	F3230-ND	1.52	1.11	.98
.500	250	F3232-ND	1.52	1.11	.98
.750	250	F3234-ND	1.52	1.11	.98
1.00	250	F3235-ND	1.52	1.11	.98
1.50	250	F3241-ND	1.52	1.11	.98
1.60	250	F3242-ND	1.52	1.11	.98
2.00	250	F3236-ND	1.52	1.11	.98
2.50	250	F3243-ND	1.52	1.11	.98
3.00	250	F3237-ND	1.52	1.11	.98
3.20	250	F3244-ND	1.52	1.11	.98
4.00	250	F3238-ND	1.52	1.11	.98
5.00	250	F3239-ND	1.52	1.11	.98
7.00	250	F3240-ND	1.52	1.11	.98
15.00	32	F3379-ND ***NEW!***	1.52	1.11	.98
30.00	32	F3380-ND ***NEW!***	2.07	1.50	1.33

- **313P-KIT-ND Digi-Key® 313 Series Slo-Blo®** ***3AG Cartridge*** 5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box

RoHS Compliant **$106.36**

Midget Fast-Acting Fuses (13/32” x 1½”) KLK Series

QPL

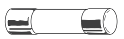

Fast-acting fuses designed for use in circuits with high AC fault current capacity.
Dimensions:
Diameter: .406” (10.31mm); Length: 1.50” (38.1mm).
Note: *See data sheet for detailed Amperage Safety Approvals.*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	100	250
KLK Series — Cartridge Type					
.500	600	F1071-ND	22.55	14.03	13.53
2.00	600	F1074-ND	30.32	21.00	18.66
3.00	600	F1075-ND	30.16	20.88	18.56
4.00	600	F1076-ND	30.88	21.38	19.00
5.00	600	F1077-ND	30.32	21.00	18.66
6.00	600	F1078-ND	29.48	20.41	18.14
10.00	600	F1080-ND	30.32	21.00	18.66
15.00	600	F1081-ND	30.32	21.00	18.66
20.00	600	F1082-ND	30.45	21.09	18.74
25.00	600	F1083-ND	30.45	21.09	18.74
30.00	600	F1084-ND	30.45	21.09	18.74

NEW! 1,000VDC Solar Rated Midget Fuses (13/32” x 1½”) SPF Series

Dim. in mm

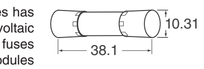

The SPF Solar Protection Fuse series has been specifically designed for photovoltaic (PV) systems. This family of midget fuses (10x38mm) can safely protect PV modules and their conductors from reverse overcurrent conditions despite the associated challeges of DC power.
Maximum Interrupt Rating: 20,000 amperes; L/R<2mS

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	100	250
SPF Series — Fast Acting Type					
1.00	1,000	F3508-ND	30.38	18.90	18.23
2.00	1,000	F3509-ND	30.38	18.90	18.23
3.00	1,000	F3510-ND	30.38	18.90	18.23
4.00	1,000	F3511-ND	30.38	18.90	18.23
5.00	1,000	F3512-ND	30.38	18.90	18.23
8.00	1,000	F3513-ND	28.94	18.01	17.37
10.00	1,000	F3514-ND	30.38	18.90	18.23
12.00	1,000	F3515-ND	31.91	19.86	19.15
20.00	1,000	F3516-ND	30.38	18.90	18.23
25.00	1,000	F3517-ND	30.38	18.90	18.23
30.00	1,000	F3518-ND	30.38	18.90	18.23

NEW! 1,000VDC POWR-SAFE “Dead-Front” Holder LPHV Series

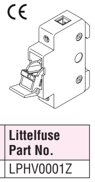

Specifications: • Use with SPF Series Fuses • Amperage Rating: 30 amperes • Wire Range: #6 ~ #14 CU 75°C • Terminal Type: Pressure Plate • SCCR Rating: 20,000 amperes • 35mm DIN Rail Mounting

Rating Voltage	Digi-Key Part No.	Price Each 1	100	250	Littelfuse Part No.
1,000	F3519-ND	22.61	14.07	13.57	LPHV0001Z

Gangable Alarm Indicating Fuseholders

Dim. in Inch (mm)

PCB Mount

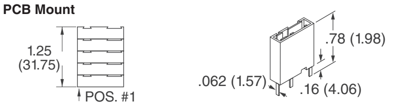

Panel Mount†

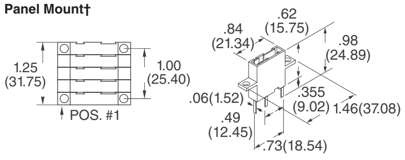

Specifications: • Typical 5 Pole Holder Assembly • **Electrical:** Rated at 15A for any voltage up to 125VAC, 125VDC • **Molded Bodies:** Black, Thermoplastic (UL 94VO) • **Terminals:** Alarm Terminal – Brass, tin-plated, wire-wrap type; Fuse Terminal – Beryllium copper, tin-plated

No. of Poles	Digi-Key Part No. PCB Mt.	Digi-Key Part No. Panel Mt.	Price Each 1	10	100
1	F1400-ND	F1420-ND	2.25	2.08	1.56
2	F1401-ND	F1421-ND	4.49	4.15	3.12
4	F1403-ND	—	8.98	8.29	6.22
5	F1404-ND	F1424-ND	11.23	10.37	7.78

† On Panel Mount, first and last position have mounting holes only.

Microfuse or PICO II Fuseholders

Fuseholder will accept Littelfuse Microfuses and PICO II™ fuses (rated to 5A) with .025” (.64mm) diameter leads.
Electrical: Rated at 5A for any voltage up to 125V. **Molded Parts:** White thermoplastic, Black panel mount **Terminals:** Copper alloy **Ambient Temperature:** -40°C ~ 100°C, Silver terminal plating

Dim. in Inch (mm)

Fig. 1

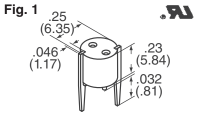

(Silver Plated)

Vertical Shown

Fig. 2

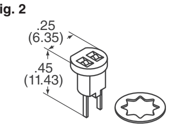

Panel Mount Push-On

Fig.	Mounting	Digi-Key Part No.	Price Each 1	100	250
1	Vertical	F060-ND‡	2.61	1.81	1.61
	Horizontal	F061-ND‡	2.61	1.81	1.61
	Vertical	F1475-ND†	2.71	1.88	1.67
2	Panel	F1474-ND	2.92	2.03	1.80

† Plating: Tin ‡ UL Recognized

NEW! HARWIN

Mini Blade Fuseclips

Features:
- Suitable for mating with a 2.8 x 0.8mm terminal.
- Uses minimal PCB real estate with a low profile connection.
- Resists shock and vibration.
- Reduced assembly times.

Materials:
- Material: Copper Alloy
- Finish: Tin

Dim. in mm

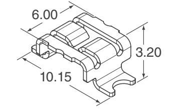

Current Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Harwin Part No.
15A	952-1575-1-ND	.31	.22	.17	S1901-46R
15A	952-1575-2-ND‡	135.00/1,500			S1901-46R

‡ Tape and Reel

Fuseholders and Fuse Clips

Fuseholders

Dimensions in mm

Fig. 1

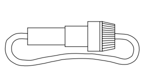

Fig. 2

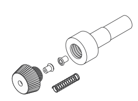

Fig. 3

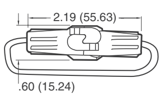

Fig. 4

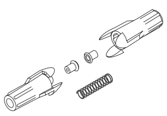

Fig. 5

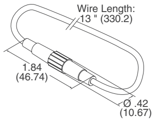

Fig. 6

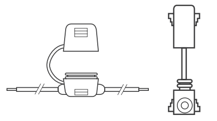

Fig. 7

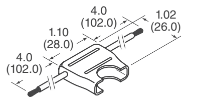

Fig. 8

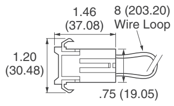

Assembled

Fig. 9

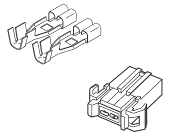

Unassembled

Fig. 10

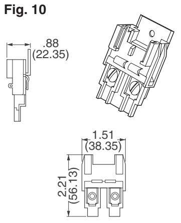

Fig. 11

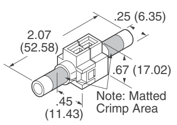

Fig. 12

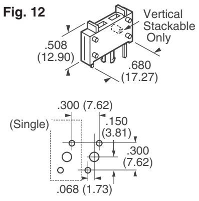

P.C.B. Footprint (Stacked)

Fig. 13

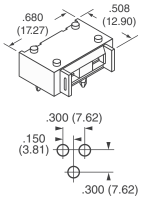

Fig. 14

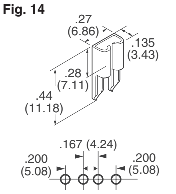

(2 Clips per Fuse)

Fig.	Accepts Fuse Type	Mounting Type	Mating Area Style	Termination Style	Wire Gauge/Color	Materials		Amperage Rating (A)	Additional Information	Digi-Key Part No.	Price Each			Littelfuse Part No.
						Terminal/Finish	Body				1	10	100	
1	3AG (.250" Dia.) & SFE	In-Line	Bayonet	Wire Leads	14AWG/Red	Brass/Tin	Thermoset	20	15" Loop	F049-ND◆	3.79	3.51	2.63	150145
	3AG (.250" Dia.)	In-Line	Bayonet	Wire Leads	14AWG/Red	Brass/Tin	Thermoset	20	19" Loop	F1467-ND◆	3.64	3.36	2.52	150079
2	3AG (.250" Dia.) & SFE	In-Line	Bayonet	Wire Leads	No Wire (14AWG)	Brass/Tin	Thermoset	20	—	F3107-ND◆	1.76	1.62	1.22	155020U
3	3AG (.250" Dia.) & SFE	In-Line	Twist Lock	Wire Leads	14AWG/Red	Brass/Tin	Thermoplastic	20	8" Loop	F062-ND◆	2.86	2.64	1.98	155100
	3AG (.250" Dia.)	In-Line	Twist Lock	Wire Leads	14AWG/Red	Brass/Tin	Thermoplastic	20	19" Loop	F3106-ND◆	4.69	4.34	3.25	150215
4	3AG (.250" Dia.) & SFE	In-Line	Twist Lock	Wire Leads	No Wire (14AWG)	Brass/Tin	Thermoplastic	20	—	F3108-ND◆	.83	.77	.58	155120U
5	2AG (.177" Dia.) & 5x20mm	In-Line	Threaded	Wire Leads	16AWG/Red	Brass	Nylon	10	13" Loop	F1468-ND◆	2.97	2.74	2.06	150274
6	Mini Blade	In-Line	Press Fit	Wire Leads	12AWG/Orange	Copper Alloy/Tin	Alcryn Thermoplastic	30	Dust Cover	F3208-ND◆	4.57	3.17	2.81	0FHM0002ZXJ
	Mini Blade	In-Line	Press Fit	Wire Leads	14AWG/Black	Copper Alloy/Tin	Alcryn Thermoplastic	20	Dust Cover	F3207-ND◆	6.50	4.50	4.00	0FHM0001ZXJ
	Standard ATO Blade	In-Line	Press Fit	Wire Leads	16AWG/Black	Copper Alloy/Tin	Alcryn Thermoplastic	20	Dust Cover	F3209-ND◆	3.90	2.70	2.40	FHAC0001ZXJ
	Standard ATO Blade	In-Line	Press Fit	Wire Leads	12AWG/Orange	Copper Alloy/Tin	Alcryn Thermoplastic	30	Dust Cover	F3210-ND◆	6.99	4.84	4.30	FHAC0002ZXJ
	Maxi Blade	In-Line	Press Fit	Wire Leads	6AWG/Black	Copper Alloy/Tin	Alcryn Thermoplastic	60	Dust Cover	F1059-ND◆	27.75	19.22	17.08	0MAH0001Z
7	Standard ATO Blade	In-Line	Press Fit	Wire Leads	16AWG/Black	Copper Alloy/Tin	Alcryn Thermoplastic	20	No Cover	F3347-ND◆	2.93	2.03	1.81	0FHA0001ZXJ
	Standard ATO Blade	In-Line	Press Fit	Wire Leads	12AWG/Orange	Copper Alloy/Tin	Alcryn Thermoplastic	30	No Cover	F3348-ND◆	6.99	4.84	4.30	0FHA0002ZXJ
8	Standard ATO Blade	Panel(Interlocking)	Press Fit	Wire Leads	14AWG/Black	Brass/Tin	Thermoplastic	20	8" Loop	F1088-ND◆	2.44	—	1.69	01550300Z
	Standard ATO Blade	Panel(Interlocking)	Press Fit	Wire Leads	10AWG/Orange	Brass/Tin	Thermoplastic	30	8" Loop	F1089-ND◆	2.80	—	1.94	01550400Z
9	Standard ATO Blade	Panel(Interlocking)	Press Fit	Wire Crimp	No Wire(10AWG)	Brass/Tin	Thermoplastic	30	—	F3109-ND◆	1.29	—	.90	01550430ZXU
10	Maxi Blade	Panel(Interlocking)	Press Fit	Screw	—	Copper Alloy	Thermoplastic	60	—	F1085-ND◆	25.71	—	17.80	0MAB0001F
	Maxi Cover for F1085-ND	—	Snap On	—	—	—	Transparent Thermoplastic	—	—	F3307-ND	2.97	—	2.06	01520900U
11	Mini Blade	In-Line	Press Fit	Wire Crimp	No Wire(16-22AWG)	Copper Alloy/Tin	Thermoplastic	20	—	F068-ND◆†	1.58	1.46	1.10	01530002H
12	Mini Blade	PCB(Vertical)	Press Fit	PC Pin	—	Copper Alloy/Tin	Thermoplastic	15	Single/End Cap	F065-ND◆	2.82	2.61	1.96	01530008Z
	Mini Blade	PCB(Vertical)	Press Fit	PC Pin	—	Copper Alloy/Tin	Thermoplastic	15	Stackable	F066-ND◆	2.86	2.64	1.98	01530009Z
13	Mini Blade	PCB(Horizontal)	Press Fit	PC Pin	—	Copper Alloy/Tin	Thermoplastic	15	—	F064-ND◆	2.91	2.69	2.02	01530007Z
14	Standard ATO Blade	PCB(Vertical)	Press Fit	PC Pin	—	Spring Brass/Tin	—	15	—	F067-ND◆	.32	.30	.22	01000057H

◆ ***RoHS Compliant*** † 20 ampere rating use 16AWG wire

Fuse Clips

Fig. 1

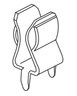

Fig. 2

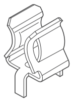

Fig. 3

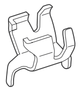

Fig. 4

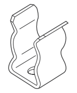

Fig. 5

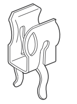

Fig. 6

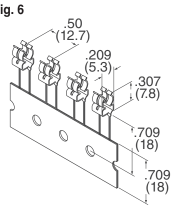

Fig. 7

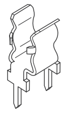

Fig. 8

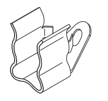

Fig. 9

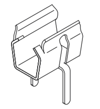

Fig. 10

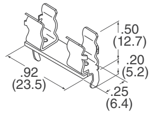

Fig.	Accepts Fuse Type	End Stops (Ears)	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Pricing			Littelfuse Part No.
							10	100	250	
1	3AG (.250” Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F040-ND	2.31	17.33	38.50	01020071H
	3AG (.250” Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F3491-ND ***NEW!***	2.01	15.08	33.50	01020071N
	3AG (.250” Diameter)	No	Straight	Spring Brass	Tin-Plated	F041-ND	2.34	17.55	39.00	01020074H
	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F046-ND	6.75	50.63	112.50	01220083H
	3AG (.250” Diameter)	No	Straight	Beryllium Copper	Silver-Plated	F3105-ND	7.47	56.03	124.50	01220087H
	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Tin-Plated	F045-ND	5.55	41.63	92.50	01220088H
	3AG (.250” Diameter)	No	Straight	Beryllium Copper	Tin-Plated	F2777-ND	6.12	45.90	102.00	01220093H
2	3AG (.250” Diameter)	No	Angled-In	Spring Brass	Tin-Plated	F042-ND	3.45	25.88	57.50	01020078H
	3AG (.250” Diameter)	Yes	Angled-In	Spring Brass	Tin-Plated	F052-ND	3.45	25.88	57.50	01020079H
	Midget Fuses (13/32”)	Yes	Straight	Spring Brass	Tin-Plated	F3305-ND	5.46	40.95	91.00	01050003H
	Midget Fuses (13/32”)	Yes	Straight	Beryllium Copper	Tin-Plated	F3306-ND	29.25	219.38	487.50	01250003H
3	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F048-ND	6.18	46.35	103.00	01220090N
	3AG (.250” Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F3103-ND	2.25	16.88	37.50	01020080H
4	3AG (.250” Diameter)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F038-ND	2.34	17.55	39.00	01010002H
	Midget Fuses (13/32”)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F3378-ND ***NEW!***	4.41	33.08	73.50	01050002H
	3AG (.250” Diameter)	No	Rivet/Eyelet	Beryllium Copper	Silver-Plated	F3104-ND	16.95	127.13	282.50	01210002H
5	2AG/5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F058-ND	2.34	17.55	39.00	01110501H
	2AG/5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F3492-ND ***NEW!***	2.31	17.33	38.50	01110501N
	2AG/5 x 20mm	Yes	Straight	Beryllium Copper	Tin-Plated	F044-ND	4.32	32.40	72.00	01110506H
6	5 x 20mm	Yes	Straight	Phosphor/Bronze	Tin-Plated	F043CT-ND‡	2.93	24.65	—	01110005MR
	5 x 20mm	Yes	Straight	Phosphor/Bronze	Tin-Plated	F043TB-ND◊		123.25/1,000		01110005MR
7	5 x 20mm	Yes	Straight	Spring Brass	Silver-Plated	F3102-ND	2.91	21.83	48.50	01000054H
	5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F063-ND	2.40	18.00	40.00	01000056H
	5 x 20mm	Yes	Straight	Spring Brass	Nickel-Plated	F3304-ND	2.13	15.98	35.50	00300210N
8	3AG (.250” Diameter)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F2776-ND	2.49	18.68	41.50	01010003H
9	3AG (.250” Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F2775-ND	2.37	17.78	39.50	01000058M
10	5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F1501-ND	10.92	81.90	182.00	05200002H

† Spring brass clips are suitable for current levels up to 10A; beryllium copper clips up to 30A. ‡ Cut Tape ◊ Tape and Box

Traditional Panel Fuseholders

Note: *See data sheet for detailed Agency Approvals.*

QPL

Fig.1

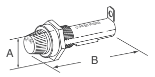

Fig. 2

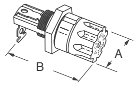

Fig. 3

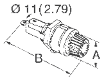

Fig. 4

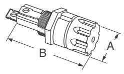

Fig. 5

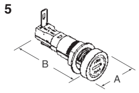

Fig. 6

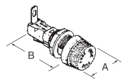

Fig. 7

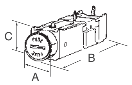

Fig. 8

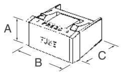

Fig. 9

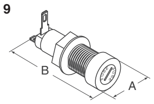

Fig. 10

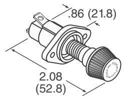

TERMINAL ORIENTATION

Straight

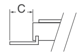

Right Angle (End View)

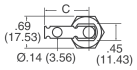

(.250" Solder Terminal Shown)

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type	Knob Type	Accessories Included	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
1	3AG (.250" Dia.)	Right Angle	Solder	Knurled	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F007-ND	3.98	3.68	2.76	03420022H
2	3AG (.250" Dia.)	Right Angle	Solder	Fluted	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F1478-ND	3.98	3.68	2.76	03420004H
	3AG (.250" Dia.)	Right Angle	Solder	Fluted	Lockwasher	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F004-ND	4.09	3.78	2.83	03420004HXL
	3AG (.250" Dia.)	Right Angle	Solder	Fluted	Lockwasher/Drip Seal	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F003-ND	4.30	3.97	2.98	03420004HXPL
	3AG (.250" Dia.)	Right Angle	.250" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.59 (14.99)	F012-ND	4.47	4.13	3.10	03420828H
	3AG (.250" Dia.)	Right Angle	.250" Q.C.	Knurled	—	.69 (17.53)	1.78 (45.21)	.59 (14.99)	F3118-ND	4.92	4.54	3.41	03420848H
3	3AG (.250" Dia.)	Straight	Solder Eyelet	Knurled	—	.69 (17.53)	2.01 (51.05)	—	F005-ND	3.79	3.51	2.63	03420012H
	3AG (.250" Dia.)	Straight	Solder Eyelet	Fluted	—	.69 (17.53)	2.01 (51.05)	—	F006-ND	3.79	3.51	2.63	03420014H
4	3AG (.250" Dia.)	Straight	.187" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.30 (7.62)	F009-ND	4.26	3.93	2.95	03420038H
	3AG (.250" Dia.)	Straight	.250" Q.C.	Fluted	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F013-ND	4.68	4.32	3.24	03420838H
	3AG (.250" Dia.)	Straight	.250" Q.C.	Knurled	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F015-ND	4.68	4.32	3.24	03420858H
	3AG (.250" Dia.)	Straight	Solder	Fluted	O-Rings (2)/Watertight	.94 (23.88)	2.23 (56.64)	—	F1479-ND	28.43	26.25	19.69	03420006
5	5 x 20 mm	Right Angle	.187" Solder/Q.C.	Screwdriver Slot	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F053-ND	5.92	5.47	4.10	03450621H
6	3AG (.250" Dia.)	Right Angle	.187" Solder/Q.C.	Finger Grip	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F3381-ND ***NEW!***	4.82	4.45	3.34	03450603H
	5 x 20 mm	Right Angle	.187" Solder/Q.C.	Finger Grip	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F054-ND	5.92	5.47	4.10	03450623H
7	3AG (.250" Dia.)	Right Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F055-ND	4.10	3.79	2.85	03450101H
	3AG (.250" Dia.)	—	—	Screwdriver Slot	Replacement Knob for F055	—	—	—	F1482-ND	1.43	1.33	1.00	03450101HX020
	5 x 20mm	Right Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F056-ND	5.31	4.91	3.68	03450121H
8	3AG (.250" Dia.)	Straight	.250" Q.C.	Flip-Top	Spare Fuse Carrier	.75 (19.05)	1.50 (38.10)	1.04 (26.42)	F059-ND	5.16	4.77	3.58	03460877H
	5 x 20mm	Straight	.187" Q.C.	Flip-Top	Spare Fuse Carrier	.70 (17.78)	1.03 (26.16)	.94 (23.88)	F1477-ND	6.65	6.15	4.61	02860677H
	2AG (.177" Dia.)	Straight	.110" Q.C.	Flip-Top	Spare Fuse Carrier	.61 (15.49)	.85 (21.59)	.87 (22.10)	F1476-ND	3.72	3.44	2.58	02860377H
9	2AG	Right Angle	.110" Solder/Q.C.	Screwdriver Slot	—	ø.55 (13.97)	.93 (23.62)	—	F1469-ND	4.50	4.16	3.12	02450001
10	Midget	Straight	.250" Solder/Q.C.	Knurled	—	—	—	.32 (8.13)	F3346-ND	9.46	8.73	6.55	05710007L

International Shock-Safe Panel Mount Fuseholders

Note: *See data sheet for detailed Agency Approvals.*

Designed to eliminate the possibility of electrical shock, as defined in IEC 60065 and 60127. Anti-tease feature eliminates circuit interruption when knob is accidentally depressed.

Fig. 1

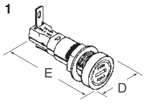

(Right Angle Shown)

Fig. 2

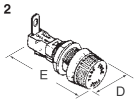

(Right Angle Shown)

TERMINAL ORIENTATION

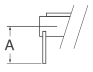

Right Angle

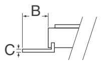

Straight

TERMINAL TYPE

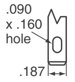

.187"
Solder/Q.C.

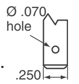

.250"
NEMA Q.C.

MOUNTING HOLES

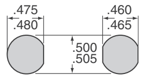

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type‡	Body Profile	Knob Type	Dimensions – Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
1	2AG (.177" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Blue)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1486-ND	4.64	4.29	3.22	03452LS2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1492-ND	3.60	3.33	2.50	03453LS2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1493-ND†	4.10	3.79	2.84	03453LS2HXNP
	3AG (.250" Dia.)	Straight	NEMA .250" Q.C.	Low	Screwdriver Slot (Gray)	—	.36 (9.14)	.032 (0.81)	.60 (15.24)	1.75 (44.45)	F3124-ND	3.60	3.33	2.50	03453LS8H
	3AG (.250" Dia.)	Right Angle	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	.53 (13.46)	—	—	.60 (15.24)	1.75 (44.45)	F1490-ND	3.37	3.12	2.34	03453LS1H
	3AG (.250" Dia.)	Right Angle	NEMA .250" Q.C.	Low	Screwdriver Slot (Gray)	.59 (14.99)	—	—	.60 (15.24)	1.75 (44.45)	F3123-ND	3.60	3.33	2.50	03453LS7H
	3AG (.250" Dia.)	Right Angle	.187" Solder/Q.C.	High	Screwdriver Slot (Gray)	.53 (13.46)	—	—	.60 (15.24)	1.75 (44.45)	F3119-ND	3.37	3.12	2.34	03453HS1H
	3AG (.250" Dia.)	Right Angle	NEMA .250" Q.C.	High	Screwdriver Slot (Gray)	.59 (14.99)	—	—	.60 (15.24)	1.75 (44.45)	F3120-ND	3.50	3.23	2.43	03453HS7H
	5 x 20mm (.197" Dia.)	Right Angle	NEMA .250" Q.C.	High	Screwdriver Slot (Black)	.59 (14.99)	—	—	.60 (15.24)	1.75 (44.45)	F1494-ND	3.61	3.33	2.50	03455HS7H
	5 x 20mm (.197" Dia.)	Right Angle	.187" Solder/Q.C.	Low	Screwdriver Slot (Black)	.53 (13.46)	—	—	.60 (15.24)	1.75 (44.45)	F3126-ND	3.61	3.33	2.50	03455LS1H
	5 x 20mm (.197" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F3127-ND	3.61	3.33	2.50	03455LS2H
	5 x 20mm (.197" Dia.)	Right Angle	NEMA .250" Q.C	Low	Screwdriver Slot (Black)	.59 (14.99)	—	—	.60 (15.24)	1.75 (44.45)	F3128-ND	4.06	3.75	2.82	03455LS7H
	5 x 20mm (.197" Dia.)	Straight	NEMA .250" Q.C	Low	Screwdriver Slot (Black)	—	.36 (9.14)	.032 (0.81)	.60 (15.24)	1.75 (44.45)	F3129-ND	4.06	3.75	2.82	03455LS8H
2	2AG (.177" Dia.)	Straight	.187" Solder/Q.C.	Low	Fingergrip (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	2.00 (50.80)	F1484-ND	4.64	4.29	3.22	03452LF2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Fingergrip (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	2.00 (50.80)	F1488-ND	3.37	3.12	2.34	03453LF2H
	3AG (.250" Dia.)	Straight	NEMA .250" Q.C.	Low	Fingergrip (Black)	—	.36 (9.14)	.032 (0.81)	.60 (15.24)	2.00 (50.80)	F1489-ND	3.60	3.33	2.50	03453LF8H
	3AG (.250" Dia.)	Right Angle	.187" Solder/Q.C.	Low	Fingergrip (Black)	.53 (13.46)	—	—	.60 (15.24)	2.00 (50.80)	F3121-ND	3.37	3.12	2.34	03453LF1H
	3AG (.250" Dia.)	Right Angle	NEMA .250" Q.C	Low	Fingergrip (Black)	.59 (14.99)	—	—	.60 (15.24)	2.00 (50.80)	F3122-ND	3.60	3.33	2.50	03453LF7H
	5 x 20mm (.197" Dia.)	Right Angle	.187" Solder/Q.C.	Low	Fingergrip (Black)	.53 (13.46)	—	—	.60 (15.24)	2.00 (50.80)	F3125-ND	3.61	3.33	2.50	03455LF1H

‡ Q.C. = Quick Connect † Neoprene Washer Drip Proof Seal

Fuseholder Replacement Knobs for International Shock-Safe Fuseholders

With the universal 345 Series fuseholder, the low profile body holders will accept any one of these replacement knobs.

Note: *See data sheet for detailed Agency Approvals.*

Fig.	Accepts Fuse Type	Knob Type	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
1	5 x 20mm	Fingergrip (Black)	F1495-ND	1.57	1.46	1.09	03455LF1HX020
2	3AG	Fingergrip (Black)	F1487-ND	1.20	1.11	.84	03453LF1HX020
3	5 x 20mm	Screwdriver Slot (Black)	F1496-ND	1.57	1.46	1.09	03455LS1HX020
4	3AG	Screwdriver Slot (Gray)	F1491-ND	1.57	1.46	1.09	03453LS1HX020

Fig. 1

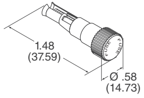

Fig. 2

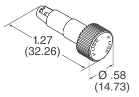

Fig. 3

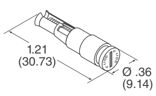

Fig. 4

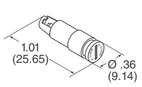

Omni-Blok® Fuse Blocks

Fuse blocks for 2AG, 3AG and 5X20mm fuses.

Specifications: • **Clip/Terminals:** Tin-plated spring brass • **Base:** Glass reinforced thermoplastic. 3AG type is Gray. UL 94V-0 flammability rating.

Agency Approvals/Current Rating			
Series	U.L. (Amps)	CSA (Amps)	VDE/Semko (Amps)
0254	10	10	N/A
0354000	30	30	N/A
0354060	20	20	N/A
0354080	20	20	N/A
0354090	30	25	N/A
0354010	15	15	N/A
0520	10	10	6.3

Fig. 1- Solder/Q.C.

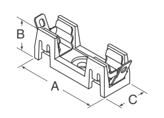

Fig. 2 - P.C. Board Mount

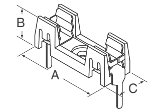

Termination Options

Terminal 1 - Solder Type P.C. Board Mount

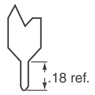

Terminal 2 - .110" Solder/Q.C.

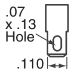

Terminal 3 - .110" NEMA/Q.C.

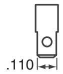

Terminal 4 - .187" Solder/Q.C.

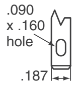

Terminal 5 - .187" NEMA/Q.C.

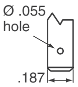

Terminal 6 - .250" Q.C.

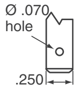

Fig.	Number of Poles	Accepts Fuse Type	Terminal Type	Dimensions - Inch A	B	C	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
0254 Series (2AG)											
1	1	2AG	2	.70	.50	.35	F14706--ND	1.40	1.29	.97	02540001Z
	1	2AG	3	.70	.50	.35	F1472-ND	1.40	1.29	.97	02540201Z
2	1	2AG	1	.70	.50	.35	F1471-ND	1.21	1.12	.84	02540101Z
0354 Series (3AG)											
1	1	1/4" 3AG	4	1.4	.53	.50	F1497-ND	1.15	1.06	.80	03540001ZXGY
	1	1/4" 3AG	5	1.4	.53	.50	F1499-ND	1.15	1.06	.80	03540601ZXGY
	1	1/4" 3AG	6	1.4	.53	.50	F1500-ND	1.15	1.06	.80	03540801ZXGY
	2	1/4" 3AG	6	1.4	.53	1.12	F3130-ND	2.24	2.07	1.55	03540802ZXGY
	1	1/4" 3AG	6	1.4	.53	.50	F3131-ND	1.92	1.78	1.33	03540901ZXGY
2	1	1/4" 3AG	1	1.4	.53	.50	F1498-ND	1.21	1.12	.84	03540101ZXGY
0520 Series (5x20 mm)											
1	1	5 x 20mm	2	.92	.50	.40	F1503-ND	1.18	1.10	.82	05200004Z
	1	5 x 20mm	3	.92	.50	.40	F1502-ND	1.18	1.10	.82	05200003Z
2	1	5 x 20mm	1	.92	.50	.40	F1504-ND	1.24	1.15	.86	05200101Z

Wickmann® Brand Product

TIP Telecom Duty Fuses

(Telecom Interface Protector)

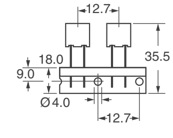

Ammopack

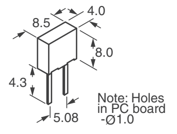

Short Leads

Approvals: cULus Recognized: File No. E67006. Complies to EIA-IS-968; Telcordia GR-1089

Features: • For UL60950/1950 3rd Edition applications • Highly defined cutoff times • Flame resistant encapsulated casing • Low internal resistance • Irreversible physical separation • Stable characteristics under varying temperatures

Maximum Fault Currents: ≤50A at 125VAC; ≤35A at 125VDC

Material: • Base and Cap: Brown thermoplastic (polyamide PA 6.6), UL 94V-0; • Round Pins: Copper alloy, tin-plated

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10
TIP 385 Series				
.350	125	WK4560BK-ND	.59	.55
1.00	125	WK4563BK-ND	.59	.55
1.00	125	WK4563TB-ND‡	347.13/1,400	
1.25	125	WK4564BK-ND	.59	.55
1.25	125	WK4564TB-ND‡	347.13/1,400	
1.50	125	WK4565BK-ND	.59	.55

‡ Tape and Box

TE5 Sub-Miniature Fuses – UL 248-14

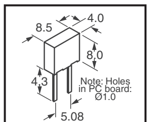

Short Leads

Approvals (395 and 396 Series): cUL Listed, UL Listed for .050A ~ 6.30A. PSE approved for 1.00A ~ 5.00A

Features: • Fast-acting and time-lag • Material: Brown thermoplastic UL 94V-0 • Round Pins: Copper alloy, tin-plated • Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20) • Plug-in holders available

Breaking Capacity: 100A at 125VAC

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 395 Series (UL248-14)					
.050	125	WK4322BK-ND◆	3.99	3.69	2.77
.100	125	WK4327BK-ND◆	.94	.87	.65
.125	125	WK4328BK-ND◆	.94	.87	.65
.160	125	WK4330BK-ND◆	.94	.87	.65
.200	125	WK4334BK-ND◆	.94	.87	.65
.250	125	WK4335BK-ND◆•	.94	.87	.65
.315	125	WK4337BK-ND◆	.94	.87	.65
.400	125	WK4340BK-ND	.94	.87	.65
.500	125	WK4341BK-ND•	.94	.87	.65

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
.630	125	WK4343BK-ND	.94	.87	.65
.800	125	WK4346BK-ND◆	.94	.87	.65
1.00	125	WK4348BK-ND◆•	.94	.87	.65
1.25	125	WK4350BK-ND◆•	.94	.87	.65
1.60	125	WK4353BK-ND	.94	.87	.65
2.00	125	WK4357BK-ND◆•	.94	.87	.65
2.50	125	WK4358BK-ND◆•	.94	.87	.65
3.15	125	WK4324BK-ND◆	.94	.87	.65
4.00	125	WK4362BK-ND◆•	.94	.87	.65
5.00	125	WK4363BK-ND◆	.94	.87	.65
6.30	125	WK4366BK-ND◆•	.94	.87	.65
Time-Lag 396 Series (UL248-14)					
.063	125	WK4425BK-ND	1.34	1.24	.93
.080	125	WK4426BK-ND	1.34	1.24	.93
.100	125	WK4427BK-ND◆	1.19	1.10	.83
.125	125	WK4428BK-ND◆	1.19	1.10	.83
.160	125	WK4430BK-ND	1.19	1.10	.83
.200	125	WK4434BK-ND◆•	.99	.92	.69
.250	125	WK4435BK-ND◆	.99	.92	.69
.250	125	WK4435TB-ND◆‡	525.77/1,400		
.315	125	WK4437BK-ND◆	.99	.92	.69
.400	125	WK4440BK-ND◆	.99	.92	.69
.500	125	WK4441BK-ND◆•	.99	.92	.69
.500	125	WK4441TB-ND◆‡	525.77/1,400		
.800	125	WK4446BK-ND◆•	.99	.92	.69
1.00	125	WK4448BK-ND◆•	.99	.92	.69
1.00	125	WK6277TB-ND◆‡	525.77/1,400		
1.25	125	WK4450BK-ND◆	.99	.92	.69
1.60	125	WK4453BK-ND◆•	.99	.92	.69
2.00	125	WK4457BK-ND◆•	.99	.92	.69
2.00	125	WK6278TB-ND◆‡	525.77/1,400		
2.50	125	WK4458BK-ND◆	.99	.92	.69
3.15	125	WK4424BK-ND◆•	.99	.92	.69
3.15	125	WK6279TB-ND◆‡	525.77/1,400		
4.00	125	WK4462BK-ND◆•	.99	.92	.69
5.00	125	WK4463BK-ND◆•	.99	.92	.69
5.00	125	WK6280TB-ND◆‡	525.77/1,400		
6.30	125	WK4466BK-ND◆	.99	.92	.69

◆ *RoHS Compliant* ‡ Tape and Box

- **WK0117-KIT-ND** ***Digi-Key® TE5 Sub-Miniature Fuse Kit*** 10 each of ***TE5 Sub-Miniature Fuses*** indicated and 20 each of ***TE5 Fuseholders*** (WK0009-ND)................................ **$86.29**

NEW! TE5 Sub-Miniature Fuses – 250VAC/450VDC

Features: • Direct solderable or plug-in versions • Shockscafe casing • Vibration resistant • Antimony-Free **Materials:** • Overmolding: Black Thermoplastic Polyphenylene Sulfide • UL 94V-0 • Round Pins: Copper, Tin-plated **Operating Temperature:** • -40°C ~ 125°C with proper derating

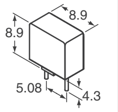

Short Leads

Amp Rating	Max. Voltage Rating (V) AC	DC	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 808 Series						
1.00	250	450	WK6288-ND	3.41	3.15	2.37
2.00	250	450	WK6289-ND	3.41	3.15	2.37

Amp Rating	Max. Voltage Rating (V) AC	DC	Digi-Key Part No.	Price Each 1	10	100
3.15	250	350	WK6290-ND	3.41	3.15	2.37
4.00	250	250	WK6291-ND	4.71	4.35	3.27
5.00	250	250	WK6292-ND	4.71	4.35	3.27

NEW! TE5 Sub-Miniature Fuses – IEC 60127-3

Approvals (400 Series): • VDE Approved • cULus Recognized • CQC Approved for .50A ~ 6.30A • PSE approved for 1.00A ~ 5.00A.

Features: • Material: Brown thermoplastic UL 94V-0 • Round Pins: Copper, tin-plated • Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20) • Plug-in versions available

Breaking Capacity: 130A at 250VAC

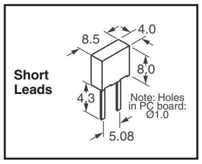

Short Leads

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Time-Lag 400 Series (IEC 60127-3)					
.80	250	WK6281BK-ND	.91	.84	.63
1.00	250	WK6282BK-ND	.91	.84	.63
1.60	250	WK6283BK-ND	.91	.84	.63
2.00	250	WK6284BK-ND	.91	.84	.63
2.50	250	WK6285BK-ND	.91	.84	.63
3.15	250	WK6286BK-ND	.91	.84	.63
6.30	250	WK6287BK-ND	1.14	1.05	.79

440V, 6.3 x 32mm (3AB) Ceramic – Slow Blow Fuses

Features: • For high voltage applications • Surge tolerant • High breaking capacity • Pluggable into clips or shockscafe holders

Materials: • Tube: Ceramic • End Caps: Nickel-plated brass

Operating Temperature: -25° ~ 70°C (consider de-rating)

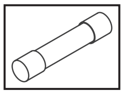

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10
Slow Blow 356 Series				
1.00	440	WK6266-ND	1.84	1.70
1.25	440	WK6267-ND	1.84	1.70
1.60	440	WK6268-ND	1.84	1.70
2.00	440	WK6269-ND	1.84	1.70
2.50	440	WK6270-ND	1.84	1.70
3.15	440	WK6271-ND	1.84	1.70
4.00	440	WK6272-ND	1.84	1.70
5.00	440	WK6273-ND	1.84	1.70
6.30	440	WK6274-ND	1.84	1.70
10.00	440	WK6275-ND	1.84	1.70

Wickmann®
Brand Product

TR5 Sub-Miniature Fuses – IEC 60127-3

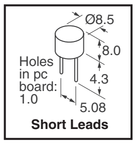

Short Leads

Approvals: • **370 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 5.00A), VDE Approved (.050A ~ 5.00A) Expert Report (6.30A), PSE Approved (1.00A ~ 4.00A) • **372 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 6.30A), VDE Approved (.050A ~ 4.00A) Expert Report (5.00A, 6.30A), PSE Approved (1.00A ~ 4.00A), Korean Approved (.050A ~ 6.30A) • **382 Series:** SEMKO Approved and cULus Recognized (1.00A ~ 6.30A), CCC Approved (1.00A ~ 4.00A), VDE Approved (1.00A ~ 4.00A) Expert Report (5.00A, 6.30A), PSE Approved (1.00A ~ 5.00A), Korean Approved (1.00A ~ 4.00A)

Material: • Base and Cap: Brown thermoplastic, Polyamide PA 6.6, UL 94V-0 • Round Pins: Copper alloy, tin-plated

Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20) • Plug-in holders available

Breaking Capacity: • **370 and 372 Series:** 35A at 250VAC for (.040A ~ 3.15A), 40A for (4.00A), 50A for (5.00A, 6.30A) • **382 Series:** 100A at 250VAC (1.00A ~ 6.30A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 370 Series (IEC 60127-3/III)					
.050	250	WK4922BK-ND	3.38	3.13	2.35
.063	250	WK4925BK-ND	3.38	3.13	2.35
.100	250	WK4927BK-ND	.71	.66	.49
.125	250	WK4928BK-ND	.71	.66	.49
.160	250	WK4930BK-ND	.71	.66	.49
.200	250	WK4934BK-ND	.71	.66	.49
.250	250	WK4935BK-ND•	.71	.66	.49
.315	250	WK4937BK-ND	.71	.66	.49
.400	250	WK4940BK-ND	.71	.66	.49
.500	250	WK4941BK-ND	.71	.66	.49
.630	250	WK4943BK-ND	.71	.66	.49
.800	250	WK4946BK-ND	.71	.66	.49
1.00	250	WK4948BK-ND•	.71	.66	.49
1.25	250	WK4950BK-ND•	.71	.66	.49
1.60	250	WK4953BK-ND•	.71	.66	.49
2.00	250	WK4957BK-ND•	.71	.66	.49
2.50	250	WK4958BK-ND	.71	.66	.49
3.15	250	WK4924BK-ND	.71	.66	.49
4.00	250	WK4962BK-ND	.71	.66	.49
5.00	250	WK4963BK-ND	.71	.66	.49
6.30	250	WK4964BK-ND†	.71	.66	.49
Time-Lag 372 Series (IEC 60127-3/IV)					
.040	250	WK6251-ND	1.00	.93	.70
.050	250	WK4222BK-ND	.95	.88	.66
.063	250	WK4225BK-ND	.95	.88	.66
.080	250	WK4226BK-ND	.77	.72	.54
.100	250	WK4227BK-ND	.77	.72	.54
.125	250	WK4228BK-ND	.77	.72	.54
.160	250	WK4230BK-ND•	.77	.72	.54
.200	250	WK4234BK-ND•	.77	.72	.54
.250	250	WK4235BK-ND	.77	.72	.54
.315	250	WK4237BK-ND•	.68	.63	.48
.400	250	WK4240BK-ND	.68	.63	.48
.500	250	WK4241BK-ND•	.68	.63	.48
.500	250	WK4241TB-ND‡	282.75/1,000		
.630	250	WK4243BK-ND•	.68	.63	.48
.800	250	WK4246BK-ND•	.68	.63	.48
1.00	250	WK4248BK-ND•	.68	.63	.48
1.00	250	WK4248TB-ND‡	282.75/1,000		
1.25	250	WK4250BK-ND	.68	.63	.48
1.60	250	WK4253BK-ND•	.68	.63	.48
2.00	250	WK4257BK-ND•	.68	.63	.48
2.00	250	WK4257TB-ND‡	282.75/1,000		
2.50	250	WK4258BK-ND•	.68	.63	.48
2.50	250	WK6276TB-ND‡	282.75/1,000		
3.15	250	WK4224BK-ND•	.68	.63	.48
3.15	250	WK4224TB-ND‡	282.75/1,000		
4.00	250	WK4262BK-ND•	.68	.63	.48
4.00	250	WK4262TB-ND‡	282.75/1,000		
5.00	250	WK4263BK-ND	.68	.63	.48
5.00	250	WK4263TB-ND‡	282.75/1,000		
6.30	250	WK4264BK-ND†	.68	.63	.48
Time-Lag 382 Series IEC 60127-3/IV High Breaking					
1.00	250	WK6207BK-ND	.80	.75	.56
2.00	250	WK6208BK-ND	.80	.75	.56
3.15	250	WK6210BK-ND	.80	.75	.56
4.00	250	WK6211BK-ND	.80	.75	.56
5.00	250	WK6212BK-ND	.80	.75	.56
6.30	250	WK6213BK-ND†	.80	.75	.56

† Conducting Path minimum: 2mm^2 ‡ Tape and Box

• ***Digi-Key® TR5 Sub-Miniature Fuse IEC 60127-3 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuse-holders*** (WK0001-ND)
WK0113-KIT-ND — *RoHS Compliant* **$74.86**

TR5 Sub-Miniature Fuses – UL 248-14

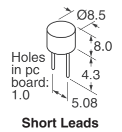

Short Leads

Approvals: 373 and 374 Series: UL Listed, CSA Certified Approved (.050A ~ 10A)

Material: • Base and cap: Brown thermoplastic UL 94V-0, insulated • Round Pins: Copper alloy, tin-plated

Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 seconds, IEC-60068-2-20 • Plug-in holders available

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 373 Series					
.050	250	WK3022BK-ND	4.03	3.72	2.79
.063	250	WK3025BK-ND	4.03	3.72	2.79
.080	250	WK3026BK-ND	4.03	3.72	2.79
.100	250	WK3027BK-ND	.89	.83	.62
.125	250	WK3028BK-ND	.89	.83	.62
.160	250	WK3030BK-ND	.89	.83	.62
.200	250	WK3034BK-ND	.89	.83	.62
.250	250	WK3035BK-ND•	.89	.83	.62
.315	250	WK3037BK-ND	.89	.83	.62
.400	250	WK3040BK-ND	.89	.83	.62
.500	250	WK3041BK-ND•	.89	.83	.62
.630	250	WK3043BK-ND	.89	.83	.62
.800	250	WK3046BK-ND	.89	.83	.62
1.00	250	WK3048BK-ND•	.89	.83	.62
1.25	250	WK3050BK-ND•	.89	.83	.62
1.60	250	WK3053BK-ND	.89	.83	.62
2.00	250	WK3057BK-ND•	.89	.83	.62
2.50	250	WK3058BK-ND•	.89	.83	.62
3.15	250	WK3024BK-ND	.89	.83	.62
4.00	250	WK3062BK-ND•	.89	.83	.62
5.00	250	WK3063BK-ND	.89	.83	.62
6.30	250	WK3066BK-ND•	.89	.83	.62
8.00	250	WK6240-ND	.89	.83	.62
10.00	250	WK3071BK-ND	.89	.83	.62
Time-Lag 374 Series					
.050	250	WK4022BK-ND	1.38	1.28	.96
.063	250	WK4025BK-ND	1.38	1.28	.96
.080	250	WK4026BK-ND	1.29	1.19	.90
.100	250	WK4027BK-ND	1.29	1.19	.90
.125	250	WK4028BK-ND	1.09	1.01	.76
.160	250	WK4030BK-ND	1.09	1.01	.76
.200	250	WK4034BK-ND•	1.09	1.01	.76
.250	250	WK4035BK-ND	.99	.92	.69
.315	250	WK4037BK-ND	.99	.92	.69
.400	250	WK4040BK-ND	.89	.83	.62
.500	250	WK4041BK-ND•	.89	.83	.62
.630	250	WK4043BK-ND	.89	.83	.62
.800	250	WK4046BK-ND•	.89	.83	.62
1.00	250	WK4048BK-ND•	.89	.83	.62
1.25	250	WK4050BK-ND	.89	.83	.62
1.60	250	WK4053BK-ND•	.89	.83	.62
2.00	250	WK4057BK-ND•	.89	.83	.62
2.50	250	WK4058BK-ND	.89	.83	.62
3.15	250	WK4024BK-ND•	.89	.83	.62
4.00	250	WK4062BK-ND•	.89	.83	.62
5.00	250	WK4063BK-ND•	.89	.83	.62
6.30	250	WK4066BK-ND	.89	.83	.62
10.00	250	WK4071BK-ND	.99	.92	.69

• ***Digi-Key® TR5 Sub-Miniature Fuse UL-248-14 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuse-holders*** (WK0001-ND)
WK0116-KIT-ND — *RoHS Compliant* **$85.75**

FKS ATO® Blade Fuse

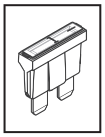

The FKS-32 is an ATO style blade fuse, featuring a three part construction with copper contacts for excellent reliability in harsh environment conditions and low voltage drop. Current ratings 0.5A thru 40A, with see-through cover for easy detection of blown fuses.

Specifications: • **Cover:** Thermoplastic (V0, transparent) • **Insulating body:** Thermoplastic (UL 94-V0, heat-resistant) • **Connections:** Copper alloy base material. Galvanized - Tin (Sn) Edge-protected finish. • **Breaking capacity:** 1,000A@32VDC

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10
1	32	WK6254-ND	2.28	2.10
2	32	WK6255-ND	2.28	2.10
3	32	WK6256-ND	2.28	2.10
4	32	WK6257-ND	2.28	2.10
5	32	WK6287-ND ***NEW!***	1.95	1.80
10	32	WK6259-ND	1.95	1.80
15	32	WK6260-ND	1.95	1.80
20	32	WK6261-ND	1.95	1.80
25	32	WK6262-ND	1.95	1.80
30	32	WK6263-ND	1.95	1.80
40	32	WK6264-ND	1.95	1.80

Clip and Fuseholders

Fig. 1

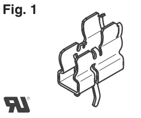

Fig. 2

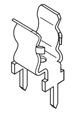

Fig. 3

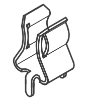

Fig. 4

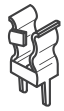

Fig. 5

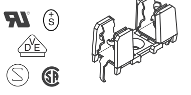

Fig. 6

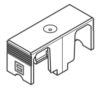

Fig. 7 — Surface Mount

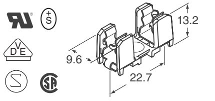

Fig. 8

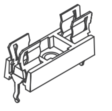

Fig. 9

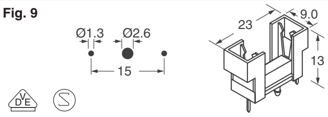

Fig. 10

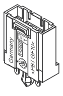

Fig. 11

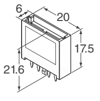

Fig. 12

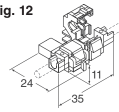

Fig. 13

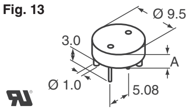

Fig. 14 — Surface Mount

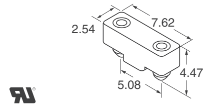

Fig. 15

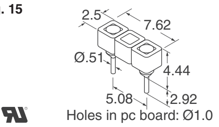

Holes in pc board: Ø1.0

Fig. 16

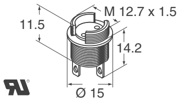

Fig. 17

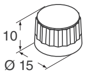

Fig. 18

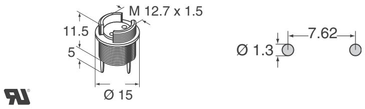

Fig.	Accepts Fuse Type	End stops (Ears)	Lead Type	Contact Material	Finish	Digi-Key Part No.	Pricing 1	10	100	Wickmann Part No.
1	5x20mm/6.3x32mm (3AG)	Yes	Angled In	Copper alloy	Tin plated	WK6241-ND	.43	3.99	29.93	51800001009
2	5x20mm	Yes	Straight	Copper alloy	Tin plated	WK6242-ND	.15	1.35	10.13	52000001009
3	PC Mount, 6.3x32mm	No	Straight	Copper alloy	Tin plated	WK6253-ND	.21	1.98	14.85	10207101009
4	5x20mm	Yes	Straight	Copper alloy	Tin plated	WK6243-ND	.18	1.65	12.38	52100001009
5	5x20mm	Yes	Angled In	Copper alloy	Tin plated	WK6245-ND	.90	8.28	62.10	65600001009

† Suitable for IR Soldering Process ‡ Cut Tape § Tape and Reel

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Clip and Fuseholders *(Cont.)*

Fig.	Accepts Fuse Type	End stops (Ears)	Lead Type	Contact Material	Finish	Digi-Key Part No.	Pricing 1	10	100	Wickmann Part No.
6	Cover for WK6245/WK6249	—	—	—	Transparent	WK6246-ND	.72	6.60	49.50	65900000009
	Cover for WK6245/WK6249	—	—	—	Black†	WK6247-ND	.90	8.34	62.55	66000001009
7	5x20mm	Yes	SMD	Copper alloy	Tin plated	WK6249CT-ND‡	1.88	17.28	145.29	65800001109
	5x20mm	Yes	SMD	Copper alloy	Tin plated	WK6249TR-ND§		400.80/400		65800001109
8	5x20mm	Yes	Straight	Copper alloy	Tin plated	WK6244-ND	.57	5.25	39.38	64600001003
9	5 x 20mm	Yes	Straight	Copper alloy	Tin plated	WK0011-ND	.38	3.51	26.33	64900001009
10	Blade Fuse MINI/FK1	—	Straight	Copper alloy	Tin plated	WK5201-ND	3.65	33.66	252.45	178.6764.0001
11	Blade Fuse for ATO/FKS	—	Straight	Copper alloy	Silver plated	WK6265-ND	3.34	30.84	231.30	178.6165.0002
12	Blade Fuse ATO/FKS	—	Wire/IDC	Copper alloy	Tin plated	WK6250-ND	3.09	28.50	213.75	277.6106.0002
13	TR5® Radial	A=3.00mm	Straight	Copper alloy	Tin plated	WK0001-ND	.84	7.74	58.05	56000001319
	TR5® Radial	A=4.3mm	Straight	Copper alloy	Tin plated	WK6235-ND	.68	6.27	46.40	56000001009
14	TR5®/TE5® Radial	—	SMD	Copper alloy	Tin plated	WK0010CT-ND‡	1.92	1.77	148.19	56400001009
	TR5®/TE5® Radial	—	SMD	Copper alloy	Tin plated	WK0010TR-ND§		1111.43/1,500		56400001009
15	TR5®/TE5® Radial	—	Straight	Copper alloy	Tin plated	WK0009-ND	1.32	12.18	91.35	56200001009
16	TR5®/TE5® Radial	—	Solder/quick connect	Copper alloy	Tin plated	WK6224-ND	1.24	11.49	86.18	57000000001
17	Cover for WK6224-ND/WK6225-ND	—	—	Polycarbonate PC	Transparent	WK6226-ND	.47	4.32	32.40	57500000001
18	TR5®/TE5® Radial	—	Straight	Copper alloy	Tin plated	WK6225-ND	1.02	9.39	70.43	57100000001

† Suitable for IR Soldering Process ‡ Cut Tape § Tape and Reel

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Shock-Safe Fuseholders

Shock-Safe fuseholders for 1/4 x 1-1/4" (3AG) or 5 x 20mm fuses built according to UL 512 and IEC 60127-6 and CSA C22.2 No. 39
Specifications: • VDE, SEMKO rated for use up to 250 Volts • Casing made of black thermoplastic with UL 94V-0 ratings. Injection-molded terminals prevent intermittent connections • PC Mount versions include additional pin(s) for added stability from torsional forces seen during fuse removal • Panel Mount versions have combination 3/16" quick-connect/solderable tabs

VERTICAL FUSEHOLDERS — NO CAP

Fig. 1 — 3AG

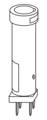

Fig. 2 — 5 x 20mm

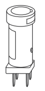

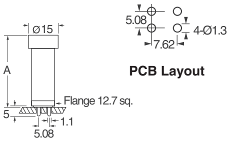

HORIZONTAL FUSEHOLDERS — NO CAP

Fig. 3 — 3AG

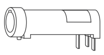

Fig. 4 — 5 x 20mm

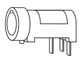

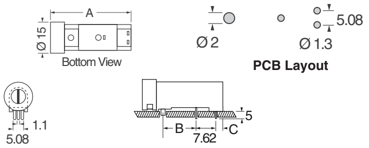

PANEL MOUNT FUSEHOLDERS — NO CAP

Fig. 5 — 3AG

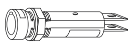

Fig. 6 — 5 x 20mm

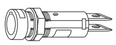

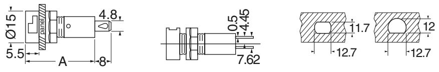

Panel Cutout (Alternatives)

Fig. 7— Snap-in

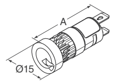

Fig. 8 — Slotted Bayonet Cap

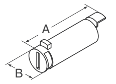

Fig. 9 — 5 x 20mm Cap

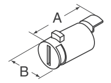

Fig.	Description	Cap Required	Dimensions – mm A	B	C	Rated Current Amps VDE	UL/CSA (Amps)	Digi-Key Part No.	Price Each 1	10	100	Wickmann Part No.
						Vertical Fuseholder						
1	3AG (6.3 x 32mm) and (5 x 20mm)	WK6230-ND WK6248-ND	46.3 46.3	— —	— —	6.3 6.3	16 16	WK6229-ND•	1.54	1.43	1.07	81100000005
2	5 x 20mm	WK6234-ND	32.6	—	—	6.3	16	WK6233-ND•	1.20	1.11	.84	83100000005
						Horizontal Fuseholder						
3	3AG (6.3 x 32mm) and (5 x 20mm)	WK6230-ND WK6248-ND	45.7 45.7	27.94 27.94	1.90 1.90	6.3 6.3	16 16	WK6228-ND•	2.01	1.86	1.40	81000000005
4	5 x 20mm	WK6234-ND	32.0	12.7	1.80	6.3	16	WK6232-ND•	1.16	1.07	.81	83000000005
						Panel Mount Fuseholder						
5	3AG (6.3 x 32mm) and (5 x 20mm)	WK6230-ND WK6248-ND	45.7 45.7	— —	— —	10 10	16 16	WK6227-ND•	1.65	1.53	1.15	80000000005
6	5 x 20mm	WK6234-ND	32.0	—	—	6.3	16	WK6231-ND•	1.33	1.23	.92	82000000005
7	5x 20mm Snap-in	WK6234-ND	40.0	—	—	6.3	16	WK6252-ND•	1.88	1.74	1.30	82300000005
8	3AG (6.3 x 32mm) Fuse Cap	—	33.8	9.20	—	—	—	WK6230-ND•	1.21	1.12	.84	81600000005
	5 x 20mm Fuse Cap	—	34.0	9.20	—	—	—	WK6248-ND•	1.18	1.09	.82	81500000005
9	5 x 20mm Fuse Cap	—	20.6	9.20	—	—	—	WK6234-ND•	.85	.79	.59	83500000005
Digi-Key® Fuseholder Kit: 1 each of WK6233-ND and WK6234-ND combined in a single bag								WK-KIT-ND	2.50	2.31	1.74	—

• Fuse Cap and Holder are sold separately

MPD
MEMORY PROTECTION DEVICES, INC.

NEW! Fuse Clips and Holders

Fig. 1

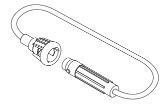

Fig. 2

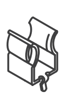

Fig. 3

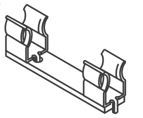

Fig. 4

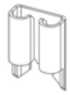

Fig. 5

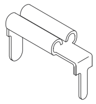

Fig. 6

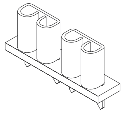

Fig. 7

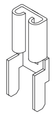

Fig.	Description	Mounting Type	Material	Termination Style	Voltage (V)	Current Rating (A)	Digi-Key Part No.	Pricing 1	10	MPD Part No.
1	0.25" x 1.25" Inline fuseholder	Inline	—	Wire Leads	500	10	BF301-ND	.60	5.63	BF301
	5 x 20mm Inline fuseholder	Inline	—	Wire Leads	500	10	BF303-ND	.63	5.88	BF303
2	Snap-In 3AG Fuse clip for 0.25" fuse	PCB, horizontal	Brass, Nickel plated	PC Pin	—	—	BK-6001-ND	.07	.63	BK-6001
	Snap-In 2AG Fuse clip for 5mm fuse	PCB, horizontal	Brass, Tin plated	PC Pin	—	—	BK-6002-ND	.07	.63	BK-6002
	3AG Fuse clip for 0.25" fuse	PCB, horizontal	Brass, Tin plated	PC Pin	—	—	BK-6003-ND	.07	.63	BK-6003
	2AG Fuse clip for 5mm fuse	PCB, horizontal	Brass, Tin plated	PC Pin	—	—	BK-6005-ND	.07	.63	BK-6005
	3AG Fuse clip for 0.25" fuse	PCB, horizontal	Brass, Nickel plated	PC Pin	—	—	BK-6007-ND	.07	.63	BK-6007
	5 x 20mm Fuse clip	PCB, horizontal	Brass, Tin plated	PC Pin	—	—	BK-6009-ND	.07	.63	BK-6009
3	3AG Fuse clip	PCB, horizontal	Brass, Tin plated	PC Pin	—	—	BK-6004-ND	.29	2.75	BK-6004
4	0.205" x 0.025" Auto blade fuse clip	PCB, vertical	Brass, Nickel plated	PC Pin	—	—	BK-6006-ND	.07	.63	BK-6006
5	0.110" x 0.032" Auto blade fuse clip	PCB, horizontal	Brass, Nickel plated	PC Pin	—	—	BK-6008-ND	.17	1.56	BK-6008
	0.205" x 0.025" Auto blade fuse clip	PCB, horizontal	Brass, Nickel plated	PC Pin	—	—	BK-6012-ND	.18	1.68	BK-6012
6	0.205" x 0.025" Auto blade fuse clip	PCB, vertical	Brass, Nickel plated	PC Pin	—	—	BK-6010-ND	.22	2.03	BK-6010
	0.110" x 0.032" Auto blade fuse clip	PCB, vertical	Brass, Nickel plated	PC Pin	—	—	BK-6013-ND	.24	2.30	BK-6013
7	0.110" x 0.032" Auto blade fuse clip	PCB, vertical	Brass, Nickel plated	PC Pin	—	—	BK-6011-ND	.07	.63	BK-6011

Richco "Quick Fit" Fuse Covers

Features:
- For use on fuse terminal blocks or PCB-mounted fuse clips
- UL recognized E81260, rating 105°C, 600V
- Material: Flexible PVC, RMS-55
- Color: Transparent blue

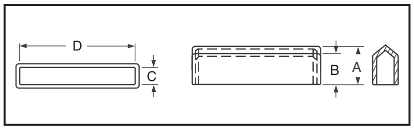

Fuse Type	Dimensions - Inches (mm)				Digi-Key Part No.	Price Each		Richco Part No.
	A	B	C	D		25	100	
Metric	.50 (12.70)	.39 (9.91)	.24 (6.10)	.79 (20.07)	RP613-ND	.53	.45	840620
Metric	.63 (16.00)	.58 (14.73)	.32 (8.13)	1.26 (32.00)	RP615-ND	.91	.76	840832
Standard	.50 (12.70)	.39 (9.91)	.32 (8.13)	1.42 (36.07)	RP616-ND	1.16	.96	840836

Tyco Electronics PolySwitch Mini-Terminal Bladed Devices

Authorized Distributor

Dimensions in mm

Fig. 1

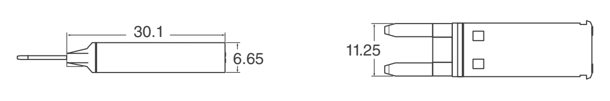

Fig. 2

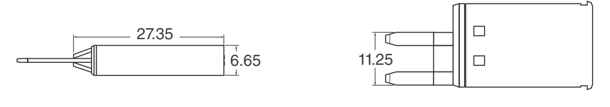

Features:
- Directly replaces mini-sized automotive fuses and Type I or Type II bimetal breakers
- No cycling into short or overload conditions
- Virtually constant performance across voltage range of 4V ~ 16V
- Probe points facilitate diagnostics and faultfinding
- Low thermal derating permits use in under hood applications

Applications:
- Automotive and Heavy Trucks Circuits
- Wiring Harness Protection
- 12V Power Outlets
- Intermittent Duty Circuits
- DC Motor Circuits

Specifications:
- Electrical Rating: 16VDC Voltage maximum
- Terminal Material: Brass H65; Thickness: 0.8mm; Tin Plating Thickness: 5µm
- Insulating Material: PBT, Meets UL94V-0 requirements

Color Code	Current Rating	Digi-Key Part No.	Price Each		Tyco Part No.
			1	10	
Fig. 1					
Red	10A	BD280-1130-10-ND	2.43	2.23	BD280-1130-10/16
Light Blue	15A	BD280-1130-15-ND	3.46	3.18	BD280-1130-15/16
Yellow	20A	BD280-1130-20-ND	3.46	3.18	BD280-1130-20/16
Fig. 2					
White	25A	BD280-1927-25-ND	4.41	4.05	BD280-1927-25/16
Green	30A	BD280-1927-30-ND	4.41	4.05	BD280-1927-30/16-W

VISHAY Beyschlag MFU Series Thin Film Chip Fuses

0402, 0603, 0805 and 1206 Sizes

Applications: • Information technology • Telecommunications • Industrial electronics • Audio/video electronics • Automotive electronics
Features: • Advanced thin film technology • Very quick acting fuse characteristics • Outstanding stability of fusing characteristics • Precise repeatability of fusing characteristics • Compatible with lead-free and lead containing soldering processes

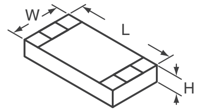

Type	Dimensions – mm		
	H	L	W
MFU 0402	0.32 ± 0.05	1.0 ± 0.05	0.5 ± 0.05
MFU 0603	0.45 + 0.1/-0.05	1.55 ± 0.05	0.85 ± 0.1
MFU 0805	0.45 + 0.1/-0.05	2.0 ± 0.1	1.25 ± 0.15
MFU 1206	0.55 ± 0.1	3.2 + 0.1/-0.2	1.6 ± 0.15

Size	Voltage Rating (V)	Amp Rating (A)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel‡ Pricing 1,000	Vishay Part No.
				1	10	100		
0402	32	.5	MFU0402.50CT-ND	.65	.56	.46	289.12	MFU0402FF00500E100
	32	.63	MFU0402.63CT-ND	.65	.56	.46	289.12	MFU0402FF00630E100
	32	.75	MFU0402.75CT-ND	.65	.56	.46	289.12	MFU0402FF00750E100
	32	.8	MFU0402.80CT-ND	.65	.56	.46	289.12	MFU0402FF00800E100
	32	1	MFU04021.00CT-ND	.44	.38	.31	196.00	MFU0402FF01000E100
	32	1.25	MFU04021.25CT-ND	.49	.42	.34	215.52	MFU0402FF01250E100
	32	1.5	MFU04021.50CT-ND	.49	.42	.34	215.52	MFU0402FF01500E100
	32	1.6	MFU04021.60CT-ND	.49	.42	.34	215.52	MFU0402FF01600E100
	32	1.75	MFU04021.75CT-ND	.49	.42	.34	215.52	MFU0402FF01750E100
	32	2	MFU04022.00CT-ND	.44	.38	.31	196.00	MFU0402FF02000E100
0603	32	.5	MFU0603.50CT-ND	.47	.41	.33	210.56	MFU0603FF00500P100
	32	.63	MFU0603.63CT-ND	.47	.41	.33	208.32	MFU0603FF00630P100
	32	.75	MFU0603.75CT-ND	.47	.41	.33	208.32	MFU0603FF00750P100
	32	.8	MFU0603.80CT-ND	.47	.41	.33	208.32	MFU0603FF00800P100
	32	1	MFU06031.00CT-ND	.35	.31	.25	155.84	MFU0603FF01000P100
	32	1.25	MFU06031.25CT-ND	.35	.31	.25	155.84	MFU0603FF01250P100
	32	1.5	MFU06031.50CT-ND	.35	.31	.25	155.84	MFU0603FF01500P100
	32	1.6	MFU06031.60CT-ND	.35	.31	.25	155.84	MFU0603FF01600P100
	32	1.75	MFU06031.75CT-ND	.35	.31	.25	155.84	MFU0603FF01750P100
	32	2	MFU06032.00CT-ND	.35	.31	.25	155.84	MFU0603FF02000P100
	32	2.5	MFU06032.50CT-ND	.35	.31	.25	155.84	MFU0603FF02500P100
	32	3	MFU06033.00CT-ND	.35	.31	.25	155.84	MFU0603FF03000P100
	32	3.15	MFU06033.15CT-ND	.35	.31	.25	155.84	MFU0603FF03150P100
	32	3.5	MFU06033.50CT-ND	.35	.31	.25	155.84	MFU0603FF03500P100
	32	4	MFU06034.00CT-ND	.35	.31	.25	155.84	MFU0603FF04000P100
	32	5	MFU06035.00CT-ND	.47	.41	.33	215.52	MFU0603FF05000P100
0805	32	.5	MFU0805.50CT-ND	.63	.54	.45	281.44	MFU0805FF00500P100
	32	.63	MFU0805.63CT-ND	.63	.54	.45	281.44	MFU0805FF00630P100
	32	.75	MFU0805.75CT-ND	.63	.54	.45	281.44	MFU0805FF00750P100
	32	.8	MFU0805.80CT-ND	.63	.54	.45	281.44	MFU0805FF00800P100
0805	32	1	MFU08051.00CT-ND	.47	.41	.34	210.56	MFU0805FF01000P100
	32	1.25	MFU08051.25CT-ND	.47	.41	.34	210.56	MFU0805FF01250P100
	32	1.5	MFU08051.50CT-ND	.47	.41	.34	210.56	MFU0805FF01500P100
	32	1.6	MFU08051.60CT-ND	.47	.41	.34	210.56	MFU0805FF01600P100
	32	1.75	MFU08051.75CT-ND	.47	.41	.34	210.56	MFU0805FF01750P100
	32	2	MFU08052.00CT-ND	.47	.41	.34	210.56	MFU0805FF02000P100
	32	2.5	MFU08052.50CT-ND	.47	.41	.34	210.56	MFU0805FF02500P100
	32	3	MFU08053.00CT-ND	.47	.41	.34	210.56	MFU0805FF03000P100
	32	3.15	MFU08053.15CT-ND	.47	.41	.34	210.56	MFU0805FF03150P100
	32	3.5	MFU08053.50CT-ND	.47	.41	.34	210.56	MFU0805FF03500P100
	32	4	MFU08054.00CT-ND	.47	.41	.34	210.56	MFU0805FF04000P100
	32	5	MFU08055.00CT-ND	.64	.55	.45	290.56	MFU0805FF05000P100
1206	63	.5	MFU1206.50CT-ND	.77	.66	.54	343.84	MFU1206FF00500P100
	63	.63	MFU1206.63CT-ND	.77	.66	.54	343.84	MFU1206FF00630P100
	63	.75	MFU1206.75CT-ND	.77	.66	.54	343.84	MFU1206FF00750P100
	63	.8	MFU1206.80CT-ND	.77	.66	.54	343.84	MFU1206FF00800P100
	63	1	MFU12061.00CT-ND	.58	.50	.41	257.28	MFU1206FF01000P100
	63	1.25	MFU12061.25CT-ND	.58	.50	.41	257.28	MFU1206FF01250P100
	63	1.5	MFU12061.50CT-ND	.58	.50	.41	257.28	MFU1206FF01500P100
	63	1.6	MFU12061.60CT-ND	.58	.50	.41	257.28	MFU1206FF01600P100
	63	1.75	MFU12061.75CT-ND	.58	.50	.41	257.28	MFU1206FF01750P100
	63	2	MFU12062.00CT-ND	.58	.50	.41	257.28	MFU1206FF02000P100
	63	2.5	MFU12062.50CT-ND	.58	.50	.41	257.28	MFU1206FF02500P100
	63	3	MFU12063.00CT-ND	.58	.50	.41	257.28	MFU1206FF03000P100
	63	3.15	MFU12063.15CT-ND	.58	.50	.41	257.28	MFU1206FF03150P100
	63	3.5	MFU12063.50CT-ND	.58	.50	.41	257.28	MFU1206FF03500P100
	63	4	MFU12064.00CT-ND	.58	.50	.41	257.28	MFU1206FF04000P100
	63	5	MFU12065.00CT-ND	.58	.50	.41	257.28	MFU1206FF05000P100
	63	6.3	MFU12066.30CT-ND	.78	.67	.55	357.12	MFU1206FF06300P100

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RoHS COMPLIANT ~ ISO 9001 CERTIFIED
KEYSTONE ELECTRONICS CORP.

Fuse Holders and Covers

For 1/4" (6.35mm) Assembled with .125" (3.18mm) thick black phenolic

Dimensions in mm

Fig. 1

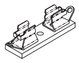

Fig. 2

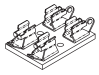

Fig. 3

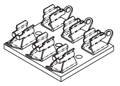

Fig. 4

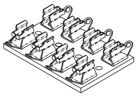

Fig. 5

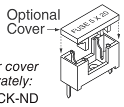

Order cover separately:
4527CK-ND
4528CK-ND

Fig. 6

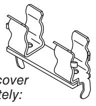

Order cover separately:
3527CK-ND

Fig. 7

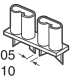

3522-2K: .205
3544-2K: .110
3555-2K: .180

Fig. 8

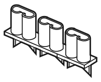

Fig. 9

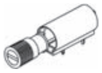

Fig. 10

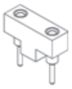

Fig. 11

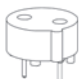

Fig. 12

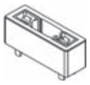

Fig. 13

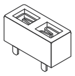

Fig. 14

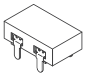

Fig. 15

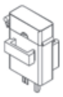

Fig. 16

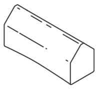

Fig.	Accepts Fuse Size	Current Rating	Insulator/Base Material	Digi-Key Part No.	Pricing 1	10	100	500
1	3AG	15A @ 500VAC	Black Phenolic UL 94-HB	3536K-ND	1.55	14.35	135.00	445.00
	3AG	15A @ 500VAC	Molded LCP	4243K-ND	3.20	30.12	278.90	937.50
2	3AG	15A @ 500VAC	Black Phenolic UL 94-HB	3537K-ND	2.55	23.52	234.00	780.00
3	3AG	15A @ 500VAC	Black Phenolic UL 94-HB	3538K-ND	4.02	37.34	347.00	1175.00
4	3AG	15A @ 500VAC	Black Phenolic UL 94-HB	3539K-ND	5.28	49.06	457.00	1525.00
5	5mm	5A @ 250VAC	Nylon UL 94V-0, Low Profile	4527K-ND	—	5.94	57.15	190.00
	5mm	5A @ 250VAC	Nylon UL 94V-0, Slim	4628K-ND	.63	5.94	57.15	190.00
6	5mm	6.3A @ 250VAC	Glass Epoxy UL 94V-0	3527K-ND	1.43	12.55	101.00	360.00
	3AG	15A @ 500VAC	Black Epoxy UL 94V-0	4245K-ND	1.85	16.15	132.40	—
	3AG	15A @ 500VAC	Glass Epoxy UL 94V-0	4250K-ND	1.62	15.04	132.75	444.50
7	Mini Auto Blade	30A @ 500VAC	Glass Filled Nylon UL 94V-0	3544-2K-ND	.99	8.65	70.75	—
	ATO Auto Blade	30A @ 500VAC	Glass Filled Nylon UL 94V-0	3522-2K-ND	.94	8.24	67.30	225.25
	Maxi Auto Blade	60A @ 500VAC	Glass Filled Nylon UL 94V-0	3555-2K-ND	1.47	13.69	118.90	419.25
8	ATO Auto Blade	30A @ 500VAC	Glass Filled Nylon UL 94V-0	3522-3K-ND	1.25	10.94	89.10	299.75
9	5mm	10A @ 250VAC	PBT	4525K-ND	2.20	20.66	196.45	656.25
10	Sub-Mini	5A @ 250VAC	Thermoplastic UL 94V-0	3552K-ND	.80	7.50	70.65	235.75
11	Sub-Mini	5A @ 250VAC	Thermoplastic UL 94V-0	3556K-ND	.81	7.60	71.55	239.25
12	Mini Auto Blade	20A @ 500VAC	PBT UL 94V-0	3588K-ND†	1.15	10.83	76.40	269.50
	Mini and ATO Auto Blades	20A @ 500VAC	PBT UL 94V-0	3557-2K-ND	1.08	9.48	76.40	269.50
	ATO Auto Blade	20A @ 500VAC	PBT UL 94V-0	3587K-ND†	1.15	10.83	76.40	269.50
13	Mini Auto Blade	20A @ 500VAC	PBT UL 94V-0	3568K-ND	1.08	9.48	76.40	269.50
14	Mini Auto Blade	30A @ 500VAC	PBT UL 94V-0	3549-2K-ND	1.06	10.00	94.30	314.50
	ATO Auto Blade	30A @ 500VAC	PBT UL 94V-0	3550-2K-ND	1.17	11.00	103.75	345.75
15	ATO Auto Blade	20A @ 500VAC	Nylon UL 94V-0	3560K-ND	1.86	17.23	149.00	500.00
				Covers				
16	5mm	—	PVC UL 94V-0	3527CK-ND	.45	4.27	40.50	—
	3AG	—	PVC UL 94V-0	4245CK-ND	.58	5.41	51.55	171.00
5	Cover Only	—	Nylon UL 94V-0	4527CK-ND	—	2.48	23.50	79.75
	Cover Only	—	Flame Retardant PVC	4628CK-ND	.26	2.48	23.50	79.75

† Surface Mount Versions

Fuse Clips and Contacts

Fig. 1

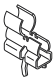

Fig. 2

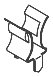

Fig. 3

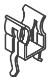

Fig. 4

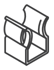

Fig. 5

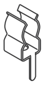

Fig. 6

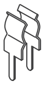

Fig. 7

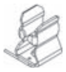

Fig. 8

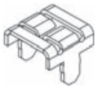

Fig. 9

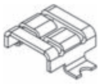

Fig. 10

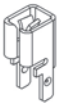

Fig. 11

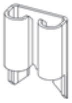

Fig.	Accepts Fuse Size	Current Rating	Leg Width mm (Inch)	Digi-Key Part No.	Pricing 1	10	100	500
1	3AG	15A	.047 (1.2)	3562K-ND	—	2.91	20.15	68.75
2	5mm	15A	.060 (1.5)	3517K-ND	—	2.19	15.55	54.75
	5mm	15A	.093 (2.4)	3518PK-ND	—	2.20	15.55	54.75
	5AG	30A	.079 (2.0)	3566K-ND	.54	4.72	38.05	134.25
	1AG, 3AG, 7AG, 8AG	15A	.060 (1.5)	3529K-ND	.30	2.79	19.60	69.50
	1AG, 3AG, 7AG, 8AG	15A	.060 (1.5)	3513K-ND	.30	2.85	20.25	71.00
3	2AG, 5mm	10A	.043 (1.1)	3521K-ND	—	1.87	12.95	43.25
	5mm	15A	.060 (1.5)	3512K-ND	.18	1.68	11.50	38.50
	1AG, 3AG, 7AG, 8AG	15A	.062 (1.6)	3530K-ND	.18	1.69	12.05	42.50
4	2AG, 5mm	10A	Rivet/SMT	3561K-ND	—	1.87	12.95	43.25
	4AG	15A	Rivet/SMT	3565K-ND	.19	1.79	17.10	54.75
	1AG, 3AG, 7AG, 8AG	15A	Rivet/SMT	3531K-ND	.19	1.79	17.10	54.75
5	5mm	6.3A	.070 (1.8)	3520K-ND	—	1.62	11.50	38.50
6	5mm	10A	.047 (1.2)	3519K-ND	—	1.60	10.90	37.25
	1AG, 3AG, 7AG, 8AG	15A	.060 (1.5)	3510K-ND	.30	2.80	19.70	69.50
7	1AG, 3AG, 7AG, 8AG	15A	Rivet/SMT	3535K-ND	.28	2.60	25.00	83.50
8	Mini Auto Blade	30A	.091 (2.3)	3564K-ND	.24	2.25	17.90	51.75
9	Mini Auto Blade	30A	SMT	3563K-ND	.24	2.25	17.90	51.75
10	Mini and ATO Auto Blades	20A	.062 (1.6)	3557K-ND	.18	1.70	12.05	42.50
11	Maxi Auto Blade	60A	.180 (4.6)	3555K-ND	.25	2.35	16.90	57.00

COOPER
Bussmann

Polymer ESD Suppressors

TR Series

Fig. 1 – 0603

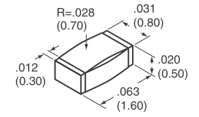

Fig. 2 – (4)1206*

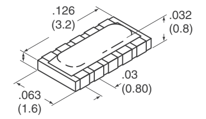

Features:
- Exceeds testing requirements outlined in IEC 61000-4-2
- Extremely low capacitance
- Very low leakage current
- Fast response time
- Bi-directional
- Lead free solder termination

Part Ratings and Characteristics	Units	Digi-Key Part No. 283-2535-x-ND 0603 Pkg. Size	 283-2536-x-ND (4)1206 Pkg. Size
Continuous Operating Voltage	Vdc	24 (Maximum)	12 (Typical) *(1)*
Clamping Voltage *(3)*	V Typical	35 (60 Maximum)	35 (60 Maximum)
Trigger Voltage *(4)*	V Typical	125	150 (300 Maximum)
ESD Threat Voltage Capability *(5)*	kV Typical	8	8
Capacitance (@ 1kHz – 1.8GHz)	pF Typical	0.15	0.15
Leakage Current (@ 12VDC)	nA Typical	<0.1	<0.1
Peak Current *(3)*	A Typical	30 (45 Maximum)	30 (45 Maximum)
Operating Temperature Range	°C	-56 ~ 105	-40 ~ 85
ESD Pulse With–stand *(3)*	# Pulses Typical *(2)*	>500	>500

Note (1): The product is 100% tested for 30Vdc operating voltage at 25°C. Continuous operation with higher than 12Vdc under extreme temperature and humidity may cause increasing leakage current and/or shifting device resistance. However, even under severe environmental test, characteristics of the device did not change up to 12Vdc operation.
Note (2): Some shifting in characteristics may occur when tested over several hundred ESD pulses at very rapid rate of 1 pulse per second or faster.
Note (3): Per IEC 61000-4-2, 30A @ 8kV, level 4, clamp measurement made 30ns after initiation of pulse, all tests in contact discharge mode.
Note (4): Trigger measurement made using Transmission Line Pulse (TLP) method.
Note (5): PolySurg devices are capable of withstanding up to a 15kV, 45A ESD pulse. Device ratings are given at 8kV per Note 2, unless otherwise specified.

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
1	283-2535-1-ND	.38	.35	.29	283-2535-2-ND	130.00/M
2	283-2536-1-ND†	1.24	1.14	.96	283-2536-2-ND†	429.00/M

† Four individual suppressors

Polymer ESD Suppressors

MLP Series

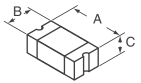

Features:
- Ultra low capacitance - Ideal for high speed data applications
- Low profile design for board space savings
- Low leakage current reduces power consumption

Dim. in mm

Part No.	Pkg. Size	Dim. A	Dim. B	Dim. C
283-2792-x	0402	1.07	0.53	0.33
283-2964-x	0402	1.1	0.53	0.36
283-2791-x	0603	1.6	0.81	0.53

Part Ratings and Characteristics	
Rated Voltage	30Vdc (Maximum)
Clamping Voltage *(1)*	35V Typical
Trigger Voltage *(2)*	300V Typical
Capacitance (@ 1MHz)	0.05 pF Typical (.15pF maximum)
Attenuation Change (0-6GHz)	-0.2dB Typical
Leakage Current (@ 12VDC)	<0.1 nA Typical
Operating Temp. Range	-55°C ~ 125°C
ESD Pulse Withstand *(1)*	>1000 Pulses Typical
ESD Capability IEC61000-4-2 Direct IEC61000-4-2 Air	 8kV Typical 15kV Typical

Note (1): Per IEC61000-4-2, Level 4 waveform (8kV direct, 30A) measured 30ns after initiation of pulse.
Note (2): Trigger measurement made using Transmission Line Pulse (TLP) method.

Package Size	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing
0402	283-2792-1-ND	.23	2.07	17.40	10,000	75.00/M
0402	283-2964-1-ND✔‡	.23	2.07	17.40	10,000	75.00/M
0603	283-2791-1-ND	.39	3.62	30.45	5,000	136.50/M

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND.
‡ Halogen Free

NEW! Transient Voltage ESD Suppressors —

TVSA Series

HALOGEN HF FREE

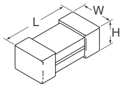

TVSA Series of transient voltage suppressors are designed to protect electronic circuits from ESD damage.
Features: • Silicon based chip • Low capacitance to meet the needs for high speed single transient voltage protection • Low clamping voltage • Solid-state silicon-avalanche technology
Operating Temperature Range: -40°C ~ 85°C

Part No.	Pkg. Size	L	W	H
283-3007-x	0201	0.60 ±0.05	0.30 ±0.05	0.30 ±0.05
283-3008-x	0402	1.00 ±0.15	0.50 ±0.10	0.50 ±0.10

Break-Down Voltage	Cap. (pF)	ESD Air/Contact (kV)	Digi-Key Part No.	Cut Tape Price Each 1	10	100
10	4	15/8	283-3007-1-ND	.30	.28	.24
	4	15/8	283-3007-2-ND†	1500.00/15,000		
	6	15/8	283-3008-1-ND	.30	.28	.24
	6	15/8	283-3008-2-ND†	1000.00/10,000		

† Tape and Reel

SMD 0603 Chip™ Fuses

0603FA-R Series, Fast Acting

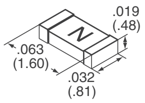

Construction:
- Rugged ceramic and glass construction

Soldering Method:
- Wave Solder: 260°C, 10 second maximum
- Infrared Reflow: 260°C, 30 second maximum

Time Current Characteristics:
% of Amp Rating: 100% - 4 hours minimum; 200% - 60 seconds maximum • Interrupting Rating: 50A (1.25 - 5 Current; 35A)
Note: See data sheet for detailed Amperage Safety Approvals

Amperage	Rated Voltage DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 5,000
250mA	50	283-2552-1-ND	1.07	.98	.83	369.20/M
500mA	50	283-2554-1-ND	1.01	.94	.79	351.00/M
1A	32	283-2556-1-ND	1.01	.94	.79	351.00/M
1.5A	32	283-2558-1-ND	.90	.83	.70	—
2A	32	283-2559-1-ND	.90	.83	.70	312.00/M
5A	32	283-2564-1-ND	.90	.83	.70	312.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! SMD 1206 Chip™ Fuses

CC12H Series, High I^2t, Time Lag

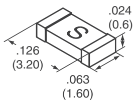

Features:
- High inrush withstand capability
- Excellent temperature and cycling characteristics
- Compatible with solder reflow and wave solder

Note: See data sheet for detailed Amperage Safety Approvals

Amperage	Rated Voltage DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 3,000
1	63	283-2978-1-ND	1.05	.97	.82	383.60/M
1.5	63	283-2979-1-ND	1.09	1.01	.85	397.30/M
2	63	283-2980-1-ND	1.05	.97	.82	383.60/M
2.5	63	283-2981-1-ND	1.09	1.01	.85	397.30/M
3	63	283-2982-1-ND	1.05	.97	.82	383.60/M
3.5	63	283-2983-1-ND	1.09	1.01	.85	397.30/M
4	63	283-2984-1-ND	1.05	.97	.82	383.60/M
4.5	32	283-2985-1-ND	1.09	1.01	.85	397.30/M
5	32	283-2986-1-ND	1.05	.97	.82	383.60/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip™ Fuses

3216FF-R Series, Fast Acting

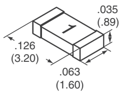

Soldering Method:
- Wave Immersion: 260°C, 10 seconds maximum
- Infrared Reflow: 260°C, 30 seconds maximum

Time Current Characteristics:
% of Amp Rating: 100% - 4 hours minimum (250mA- 7A); 200% - 60 seconds maximum (1.25A- 3A); 250% - 5 seconds maximum (250mA- 3A); 350% - 1 second maximum (4A - 7A) - 5 second maximum (15A -20A) Interrupting Rating: 50A
Note: See data sheet for detailed Amperage Safety Approvals

Amperage	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 3,000
250mA	32/63	283-2537-1-ND	.95	.88	.74	346.61/M
375mA	32/63	283-2538-1-ND	.95	.88	.74	346.61/M
500mA	32/63	283-2539-1-ND	.95	.88	.74	346.61/M
750mA	32/63	283-2540-1-ND	.95	.88	.74	346.61/M
1A	32/63	283-2541-1-ND	.95	.88	.74	346.61/M
1.25A	32/63	283-2542-1-ND	.95	.88	.74	346.61/M
1.5A	32/63	283-2543-1-ND	.95	.88	.74	346.61/M
2A	32/63	283-2544-1-ND	.95	.88	.74	346.61/M
2.5A	32/63	283-2545-1-ND	.95	.88	.74	346.61/M
3A	32/63	283-2546-1-ND	.95	.88	.74	346.61/M
4A	32/32	283-2547-1-ND	.95	.88	.74	346.61/M
4.5A	32/32	283-2548-1-ND	.95	.88	.74	346.61/M
5A	32/32	283-2549-1-ND	.95	.88	.74	346.61/M
6.5A	32/32	283-2550-1-ND	.95	.88	.74	346.61/M
7A	32/32	283-2551-1-ND	.95	.88	.74	346.61/M
15A	—/24	283-2793-1-ND	1.31	1.21	1.02	479.50/M
20A	—/24	283-2794-1-ND	1.31	1.21	1.02	479.50/M

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! SMD 0603 Chip™ Fuses

CC06H Series, High I^2t, Fast Acting

HALOGEN HF FREE

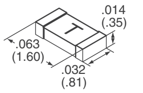

Features:
- Ampacity alpha mark on fuse for easy identifiaction
- Compatible with standard lead-free solder reflow and wave soldering processes

Construction:
- Solid matrix with advanced fuse element design

Note: See data sheet for detailed Amperage Safety Approvals

Amperage	Rated Voltage DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 5,000
1	32	283-2970-1-ND	1.01	.94	.79	351.00/M
1.5	32	283-2971-1-ND	1.01	.94	.79	351.00/M
2	32	283-2972-1-ND	1.01	.94	.79	351.00/M
2.5	32	283-2973-1-ND	1.01	.94	.79	351.00/M
3	32	283-2974-1-ND	1.01	.94	.79	351.00/M
3.5	32	283-2975-1-ND	1.01	.94	.79	351.00/M
4	32	283-2976-1-ND	1.01	.94	.79	351.00/M
5	32	283-2977-1-ND	1.01	.94	.79	351.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip™ Fuses

3216TD-R Series, Time Delay

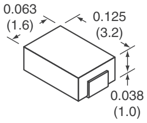

Soldering Method:
- Wave Immersion: 260°C, 10 seconds maximum
- Infrared Reflow: 260°C, 30 seconds maximum
- Hand Solder: 350°C, 3 seconds maximum

Electrical Characteristics:
% of Amp Rating: 100% - 4 hours minimum; 200% - 1 second minimum, 120 second maximum; 300% - 0.05 second minimum, 3 second maximum; 800% - 0.002 second minimum, 0.05 second maximum
Note: See data sheet for detailed Amperage Safety Approvals

Amperage	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100
1A	63/63	283-2795-1-ND	1.29	1.19	1.01
1.5A	32/32	283-2796-1-ND	1.29	1.19	1.01
2A	32/32	283-2797-1-ND	1.29	1.19	1.01
2.5A	32/32	283-2798-1-ND	1.29	1.19	1.01
4A	32/32	283-2800-1-ND	1.29	1.19	1.01
5A	32/32	283-2801-1-ND	1.29	1.19	1.01
6.3A	32/32	283-2802-1-ND	1.29	1.19	1.01
7A	32/32	283-2803-1-ND	1.29	1.19	1.01

SMD Telecom Circuit Protectors —

TCP™ Series

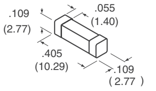

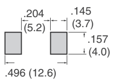

Features: • Allows compliance with telecom regulatory standards including Bellcore GR 1089 UL 1950/60950 and FCC part 68. Application circuit testing is recommended. • Eliminates the need for a current limiting resistor.
Soldering Method: • Wave Immersion: 260°C, 3 seconds maximum • Infrared: 240°C, 30 seconds maximum
Lightning Surge Specifications: • TCP 500mA Tested: FCC 47 Part 68; Metallic Type A and Longitudinal Type B • TCP 1.25A Tested: FCC 47 Part 68; Metallic Type B and Longitudinal Type A, and Bellcore GR-1089-CORE; First Level Lightning
Note: See data sheet for detailed Amperage Safety Approvals

Amp Rate	Voltage Rating	Part Marking	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 2,500
0.5	250VAC	FR	283-2533-1-ND	1.45	1.34	1.12	528.82/M
1.25	250VAC	JR	283-2534-1-ND	1.45	1.34	1.12	528.82/M

† For Tape and Reel part number, change 1-ND to 2-ND.

COOPER
Bussmann®

SMD Brick™ Fuses
6125FA Series, Fast Acting

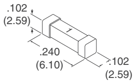

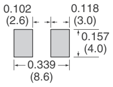

Features: • Environmentally rugged, complies with the EIA-IS-722 Standard • Solder Immersion Compatible • Wire-in-air design

Soldering Method: • Wave Solder: 260°C, 10 seconds maximum (MIL-STD-202, Method 210) • Infrared Reflow: 260°C, 30 second maximum

Electrical Characteristics: % of Amp Rating: 100% – 4 hours minimum, 200% – 5 seconds maximum Voltage Rating: 125Vac (250mA – 12A), 125Vdc (250mA – 7A), 86Vdc (250mA – 15A)

Note: See data sheet for detailed Amperage Safety Approvals

Amp-erage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
250mA	283-2521-1-ND	1.45	1.34	1.13	283-2521-2-ND	503.10/M
500mA	283-2522-1-ND	1.45	1.34	1.13	283-2522-2-ND	503.10/M
1A	283-2524-1-ND	1.45	1.34	1.13	283-2524-2-ND	503.10/M
2A	283-2525-1-ND	1.45	1.34	1.13	283-2525-2-ND	503.10/M
3A	283-2526-1-ND	1.45	1.34	1.13	283-2526-2-ND	503.10/M
5A	283-2528-1-ND	1.45	1.34	1.13	283-2528-2-ND	503.10/M
7A	283-2529-1-ND	1.45	1.34	1.13	283-2529-2-ND	503.10/M
10A	283-2530-1-ND	1.05	.97	.82	283-2530-2-ND	364.00/M
12A	283-2531-1-ND	1.05	.97	.82	—	—
15A	283-2532-1-ND	1.05	.97	.82	283-2532-2-ND	364.00/M

NEW! SMD Brick™ Fuses
6125FF Series, High I^2t, Fast Acting

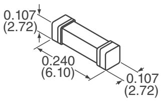

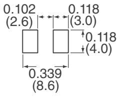

Features: • High inrush withstand capability • Solder Immersion Compatible
Electrical Characteristics: Voltage Rating: 125Vac (500mA – 15A), 72Vdc (500mA – 15A)
Environmental Data: • Operating Temperature: -55°C ~ 125°C
Note: See data sheet for detailed Amperage Safety Approvals

Amp-erage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
500mA	283-2952-1-ND	.90	.83	.70	283-2952-2-ND	312.00/M
1A	283-2953-1-ND	.90	.83	.70	283-2953-2-ND	312.00/M
1.5A	283-2954-1-ND	.90	.83	.70	283-2954-2-ND	312.00/M
2A	283-2956-1-ND	.90	.83	.70	283-2956-2-ND	312.00/M
2.5A	283-2955-1-ND	.90	.83	.70	283-2955-2-ND	312.00/M
3A	283-2957-1-ND	.90	.83	.70	283-2957-2-ND	312.00/M
4A	283-2958-1-ND	.90	.83	.70	283-2958-2-ND	312.00/M
5A	283-2959-1-ND	.90	.83	.70	283-2959-2-ND	312.00/M
7A	283-2960-1-ND	.90	.83	.70	283-2960-2-ND	312.00/M
10A	283-2961-1-ND	.90	.83	.70	283-2961-2-ND	312.00/M
12A	283-2962-1-ND	.90	.83	.70	283-2962-2-ND	312.00/M
15A	283-2963-1-ND	.90	.83	.70	283-2963-2-ND	312.00/M

Radial PC-TRON® Subminiature Fuses

Characteristics: • Offers short-circuit performance which until now could only be found in much larger size glass tube fuses. At 250Vac, the 1/2 to 3 amp PC-Tron can safely interrupt 50 amperes; at 125Vac the 1/2 to 5 amp versions can interrupt 10,000 amperes. This makes the PC-Tron subminiature fuse ideal for line-side protection of power supplies.

Time Current: • Carry 100% of rating for 4 hours minimum; open at 200% of rating in 10 seconds maximum

Construction Material: • Body: High temperature plastic • Leads: Tin plated copper

Note: See data sheet for detailed Amperage Safety Approvals

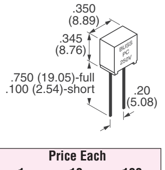

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Price Each 1	10	100
PCB-R Series - Full Lead Length					
1/2A	250/450	283-2757-ND	2.24	2.07	1.56
1A	250/450	283-2756-ND	2.24	2.07	1.56
1-1/2A	250/450	283-2758-ND	2.24	2.07	1.56
2A	250/450	283-2759-ND	2.24	2.07	1.56
2-1/2A	250/450	283-2760-ND	2.24	2.07	1.56
3A	250/350	283-2761-ND	2.24	2.07	1.56
PCC-R Series - Short Lead Length					
1/2A	250/450	283-2764-ND	2.24	2.07	1.56
3/4A	250/450	283-2769-ND	2.24	2.07	1.56
1A	250/450	283-2763-ND	2.24	2.07	1.56
1-1/2A	250/450	283-2765-ND	2.24	2.07	1.56
2A	250/450	283-2766-ND	2.24	2.07	1.56
3A	250/350	283-2768-ND	2.24	2.07	1.56
PCE-R Series - Short Lead Length					
5A	125/250	283-2770-ND	2.24	2.07	1.56

Radial Time-Delay Fuses
SR-5 Series IEC 60127-3

Description: • Place directly into PCB or plug into BK/PCS holder (283-2356-ND)

Characteristics: • Rated Current value 40mA ~ 5A carry 200% for 2 minutes maximum; 275% for 400 milliseconds minimum and 10 seconds maximum; 400% for 150 milliseconds minimum, 3 seconds maximum; 1000% for 20 milliseconds minimum and 150 milliseconds maximum

Note: See data sheet for detailed Amperage Safety Approvals

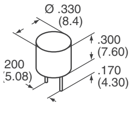

Amp-erage	Current Rating	Rated Voltage (AC/DC)	Digi-Key Part No.	Price Each 1	10	100
SR-5 Series - Bulk Pack						
800mA	35A	250V	283-2580-ND	1.46	1.35	1.02
1A	35A	250V	283-2581-ND	1.46	1.35	1.02
2A	35A	250V	283-2584-ND	1.46	1.35	1.02
2.5A	35A	250V	283-2585-ND	1.46	1.35	1.02
3.15A	35A	250V	283-2586-ND	1.46	1.35	1.02
4A	40A	250V	283-2587-ND	1.46	1.35	1.02
5A	50A	250V	283-2588-ND	1.46	1.35	1.02

Axial Microtron® Fast Acting Fuses
MCRW Series

Construction Material: • Body: High temperature thermoplastic, flammability rating UL 94V • Element: Wire-in-air design • Leads: Tin-plated copper, .64mm (.025”) diameter

Note: See data sheet for detailed Amperage Safety Approvals

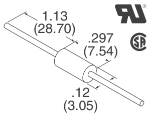

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
1/8A	125/125	283-2069-ND	1.01	.74	.65
1/4A	125/125	283-2070-ND	1.01	.74	.65
1/2A	125/125	283-2072-ND	.97	.70	.62
3/4A	125/125	283-2073-ND	1.01	.74	.65
1A	125/125	283-2074-ND	1.01	.74	.65
1-1/2A	125/125	283-2075-ND	1.01	.74	.65
2A	125/125	283-2076-ND	1.01	.74	.65
3A	125/125	283-2078-ND	.79	.57	.51
4A	125/125	283-2080-ND	1.01	.74	.65
5A	125/125	283-2081-ND	1.01	.74	.65
7A	125/125	283-2082-ND	.79	.57	.51
10A	125/125	283-2083-ND	1.01	.74	.65

NEW! Axial Microtron® Fuses — MCRS Series

Characteristics:
- Time delay

Construction Material:
- Matte tin-plated copper lead wires
- High temperature epoxy plastic body, UL 94V0

Note: See data sheet for detailed Amperage Safety Approvals

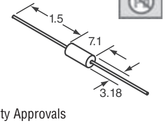

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
1A	125	283-2965-ND	2.10	1.94	1.46
2A	125	283-2966-ND	2.10	1.94	1.46
3A	125	283-2967-ND	2.10	1.94	1.46
5A	125	283-2968-ND	2.10	1.94	1.46
7A	125	283-2969-ND	2.10	1.94	1.46

3AG Glass Body Fuses
1/4” x 1-1/4” (6.35 x 31.75mm)
AGC-R and MDL Series

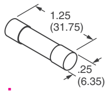

Time Current Characteristics: Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum
Construction Material: • Tube: Glass • Endcaps: Nickel-plated brass
Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
AGC-R Series — Fast-Acting					
1/4A	250	283-2621-ND	1.52	1.41	1.06
3/10A	250	283-2630-ND	1.52	1.41	1.06
1/2A	250	283-2620-ND	.70	.65	.49
3/4A	250	283-2631-ND	.70	.65	.49
1A	250	283-2619-ND	.45	.42	.31
1-1/4A	250	283-2624-ND	.45	.42	.31
1-1/2A	250	283-2623-ND	.45	.42	.31
2A	250	283-2626-ND	.45	.42	.31
2-1/2A	250	283-2628-ND	.45	.42	.31
3A	250	283-2629-ND	.45	.42	.31
4A	250	283-2634-ND	.69	.64	.48
5A	250	283-2635-ND	.69	.64	.48
6A	250	283-2636-ND	.69	.64	.48
7A	250	283-2637-ND	.69	.64	.48
7-1/2A	250	283-2880-ND ***NEW!***	.97	.90	.68
8A	250	283-2638-ND	.81	.75	.56
10A	250	283-2622-ND	.81	.75	.56
12A	32	283-2881-ND ***NEW!***	.48	.45	.34
15A	32	283-2625-ND	.48	.45	.34
20A	32	283-2627-ND	.48	.45	.34
25A	32	283-2868-ND	.48	.45	.34
30A	32	283-2633-ND	.48	.45	.34
40A	32	283-2882-ND ***NEW!***	1.96	1.81	1.36
MDL-R Series — Time-Delay					
1/4A	250	283-2735-ND	1.35	1.25	.94
3/8A	250	283-2748-ND	1.29	1.20	.90
1/2A	250	283-2734-ND	.98	.91	.68
3/4A	250	283-2747-ND	.98	.91	.68
1A	250	283-2733-ND	.98	.91	.68
1-1/4A	250	283-2738-ND	.94	.87	.65
1-1/2A	250	283-2737-ND	.98	.91	.68
2A	250	283-2741-ND	.98	.91	.68
2-1/2A	250	283-2743-ND	.98	.91	.68
3A	250	283-2745-ND	.98	.91	.68
3-1/2A	250	283-2750-ND	.98	.91	.68
4A	250	283-2751-ND	.98	.91	.68
5A	250	283-2752-ND	.98	.91	.68
6-1/4A	250	283-2753-ND	.98	.91	.68
7A	250	283-2754-ND	.98	.91	.68
8A	250	283-2755-ND	.98	.91	.68
10A	32	283-2736-ND	1.45	1.34	1.01
12A	32	283-2739-ND	1.45	1.34	1.01
15A	32	283-2740-ND	1.45	1.34	1.01
20A	32	283-2742-ND	1.45	1.34	1.01

3AB Ceramic Body Fuses
1/4” x 1-1/4” (6.35 x 31.75mm)
ABC-R and MDA-R Series

Time Current Characteristics:
Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum
Construction Material: • Ceramic • Endcaps: Nickel-plated brass
Note: See data sheet for detailed Amperage Safety Approvals

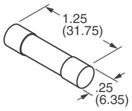

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
ABC-R Series — Fast-Acting					
1/2A	250	283-2606-ND	2.37	2.19	1.64
1A	250	283-2605-ND	.99	.92	.69
2A	250	283-2610-ND	1.01	.94	.71
2.5A	250	283-2879-ND ***NEW!***	1.04	.96	.72
3A	250	283-2612-ND	1.01	.94	.71
4A	250	283-2615-ND	.99	.92	.69
5A	250	283-2616-ND	1.01	.94	.71
6A	250	283-2617-ND	1.01	.94	.71
8A	250	283-2618-ND	1.01	.94	.71
10A	250	283-2607-ND	.93	.86	.65
12A	250	283-2608-ND	.93	.86	.65
15A	250	283-2609-ND	.93	.86	.65
20A	250	283-2611-ND	1.35	1.25	.94
25A	125	283-2867-ND	1.42	1.32	.99
30A	125	283-2614-ND	1.42	1.32	.99
MDA-R Series — Time-Delay					
1/2A	250	283-2721-ND	1.69	1.56	1.17
1A	250	283-2720-ND	1.69	1.56	1.17
2A	250	283-2725-ND	1.69	1.56	1.17
3A	250	283-2727-ND	1.69	1.56	1.17
4A	250	283-2729-ND	1.69	1.56	1.17
5A	250	283-2730-ND	1.69	1.56	1.17
6A	250	283-2731-ND	1.69	1.56	1.17
8A	250	283-2732-ND	1.69	1.56	1.17
10A	250	283-2722-ND	1.69	1.56	1.17
12A	250	283-2723-ND	1.69	1.56	1.17
15A	250	283-2724-ND	1.69	1.56	1.17
20A	250	283-2726-ND	1.69	1.56	1.17
30A	250	283-2728-ND	1.69	1.56	1.17

COOPER
Bussmann

NEW! ANL Series Low Voltage Limiter
No - Time-Delay

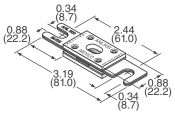

Specifications: Isolates faults in equipment systems such as lift trucks and other battery operated systems. Silver-plated copper link
Rated Voltage: 32VAC
Agency Information: SAE J1171 (50-500A): Ignition Protected
Interrupting Rating: 6,000AC, 2700ADC

Current Rating	Digi-Key Part No.	Price Each 1	10	100
50A	283-2873-ND	52.58	46.74	32.72
80A	283-2874-ND	50.51	44.90	31.43
100A	283-2875-ND	48.26	42.90	30.03
200A	283-2876-ND	48.26	42.90	30.03
300A	283-2877-ND	53.42	47.48	33.24
500A	283-2878-ND	50.51	44.90	31.43

Mini Blade-Type Automotive Fuses
ATM Series

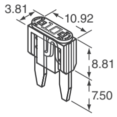

Rated Voltage: • 32 Vdc **Interrupting Rating:** • 1,000A
Characteristics: • Fast-Acting

Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
2A	Gray	283-2323-ND	.99	.72	.64
4A	Pink	283-2325-ND	.99	.72	.64
7.5A	Brown	283-2327-ND	.99	.72	.64
10A	Red	283-2328-ND	.99	.72	.64
15A	Blue	283-2329-ND ***NEW!***	.99	.72	.64
20A	Yellow	283-2330-ND	.99	.72	.64
30A	Green	283-2332-ND	.99	.72	.64

Blade-Type Automotive Fuses
ATC® Series

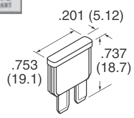

Rated Voltage: • 32 Vdc
Characteristics: • Fast-Acting
Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
3A	Violet	283-2314-ND	.81	.59	.52
4A	Pink	283-2315-ND	.72	.52	.46
5A	Tan	283-2316-ND	.81	.59	.52
7-1/2A	Brown	283-2317-ND	.81	.59	.52
10A	Red	283-2318-ND	.81	.59	.52
15A	Blue	283-2319-ND	.81	.59	.52
20A	Yellow	283-2320-ND	.81	.59	.52
25A	Clear	283-2321-ND	.72	.52	.46
30A	Green	283-2322-ND	.81	.59	.52
40A	Orange	283-2833-ND	1.40	1.02	.90

NEW! (5AG) Tron® Time-Delay Fuses — 13/32" x 1-1/2" Midget

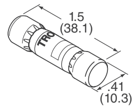

Rated Voltage: 500 Vac
Construction Material: • Fibre tube • Nickel plated brass endcaps
Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Digi-Key Part No.	Price Each 1	10	100
5A	283-2939-ND	26.66	23.70	16.59
10A	283-2940-ND	26.66	23.70	16.59
12A	283-2941-ND	26.66	23.70	16.59
15A	283-2942-ND	26.66	23.70	16.59
20A	283-2943-ND	26.66	23.70	16.59
25A	283-2944-ND	26.66	23.70	16.59
30A	283-2945-ND	26.66	23.70	16.59

5AG LIMITRON® Fast Acting Fuses
13/32" x 1-1/2" Midget
KTK Series

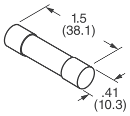

Rated Voltage: 600VAC
Construction Material: Melanine tube with nickel-plated bronze endcaps
Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Digi-Key Part No.	Price Each 1	10	100
5A	283-2463-ND	32.21	29.73	22.30
10A	283-2466-ND	32.21	29.73	22.30
15A	283-2467-ND	32.21	29.73	22.30
20A	283-2468-ND	32.31	29.82	22.37
25A	283-2469-ND	32.31	29.82	22.37
30A	283-2470-ND	32.31	29.82	22.37

Alarm Indicating Fuses
GMT Series

Rated Voltage: 125Vac, 60Vdc

Characteristics: Fast-Acting

Time Current Characteristics: Rated current values 1/4 ~ 15 amps carry 100% of rating for 10 minutes minimum; open at 150% of rating in 5 minutes maximum

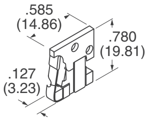

Construction Material: • Body: Thermoplastic, UL 94VO flammability rating • Terminals: Tin plated Beryllium Copper

Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
1/4A	Violet	283-2051-ND	3.45	3.18	2.39
1/2A	Red	283-2053-ND	3.45	3.18	2.39
1A	Gray	283-2056-ND	3.45	3.18	2.39
1-1/2A	White/Yellow	283-2058-ND	3.07	2.84	2.13
2A	Orange	283-2059-ND	3.07	2.84	2.13
3A	Blue	283-2060-ND	3.45	3.18	2.39
4A	White/Brown	283-2062-ND	3.45	3.18	2.39
5A	Green	283-2063-ND	3.45	3.18	2.39
7-1/2A	Black/White	283-2064-ND	3.45	3.18	2.39
10A	Red/White	283-2065-ND	3.45	3.18	2.39
15A	Red/Blue	283-2067-ND	3.45	3.18	2.39
Clear Fuse cover for GMT Series		283-2846-ND	.89	.83	.62

5 x 20mm Metric Ferrule Fuses — IEC Standard

IEC 60127-2

Construction Material:

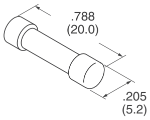

- Tube: Ceramic, S501-R (GDA Series) and S505-R Series; Glass, S500-R (GDB Series) and S506-R (GDC Series) • End Caps: Nickel or silver-plated brass

Note: See data sheet for detailed Amperage Safety Approvals

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
S501-R (GDA Series)† - Fast-Acting, High Breaking					
100mA	250	283-2659-ND	1.76	1.63	1.22
500mA	250	283-2667-ND	1.46	1.35	1.02
2A	250	283-2663-ND	1.46	1.35	1.02
2.5A	250	283-2662-ND	1.46	1.35	1.02
3.15A	250	283-2664-ND	1.46	1.35	1.02
4A	250	283-2666-ND	1.46	1.35	1.02
5A	250	283-2668-ND	1.46	1.35	1.02
6.3A	250	283-2669-ND	1.46	1.35	1.02
S500-R (GDB Series)§ - Fast-Acting, Low Breaking					
100mA	250	283-2674-ND	1.77	1.64	1.23
125mA	250	283-2676-ND	1.77	1.64	1.23
160mA	250	283-2677-ND	1.00	.93	.70
250mA	250	283-2680-ND	1.00	.93	.70
315mA	250	283-2683-ND	1.00	.93	.70
500mA	250	283-2685-ND	.31	.29	.22
630mA	250	283-2688-ND	.31	.29	.22
800mA	250	283-2689-ND	.31	.29	.22
1A	250	283-2678-ND	.31	.29	.22
1.25A	250	283-2672-ND	.31	.29	.22
1.6A	250	283-2673-ND	.31	.29	.22
2A	250	283-2681-ND	.31	.29	.22
2.5A	250	283-2679-ND	.31	.29	.22
3.15A	250	283-2682-ND	.31	.29	.22
4A	250	283-2684-ND	.31	.29	.22
5A	250	283-2686-ND	.31	.29	.22
6.3A	250	283-2687-ND	.31	.29	.22
8A◊	250	283-2690-ND	1.14	1.06	.80
10A◊	250	283-2675-ND	1.14	1.06	.80
NEW! S505-R Series - Time-Delay, High Breaking NEW!					
500mA	250	283-2927-ND	1.44	1.33	1.00
1A	250	283-2928-ND	1.44	1.33	1.00
2.5A	250	283-2929-ND	1.44	1.33	1.00
2A	250	283-2930-ND	1.44	1.33	1.00
3.15A	250	283-2931-ND	1.44	1.33	1.00
4A	250	283-2932-ND	1.44	1.33	1.00
5A	250	283-2933-ND	1.44	1.33	1.00
6.3A	250	283-2934-ND	1.44	1.33	1.00
8A	250	283-2935-ND	1.80	1.67	1.25
10A	250	283-2936-ND	1.80	1.67	1.25
S506-R (GDC Series)‡ - Time-Delay, Low Breaking					
100mA	250	283-2693-ND	1.34	1.24	.93
125mA	250	283-2694-ND	1.34	1.24	.93
125mA	250	283-2694-ND	1.34	1.24	.93
160mA	250	283-2695-ND	1.34	1.24	.93
250mA	250	283-2698-ND	1.34	1.24	.93
315mA	250	283-2701-ND	1.34	1.24	.93
400mA	250	283-2702-ND	1.34	1.24	.93
500mA	250	283-2704-ND	.97	.90	.67
630mA	250	283-2707-ND	.97	.90	.67
800mA	250	283-2708-ND	.97	.90	.67
1A	250	283-2696-ND	.97	.90	.67
1.25A	250	283-2691-ND	.97	.90	.67
1.6A	250	283-2692-ND	.97	.90	.67
2A	250	283-2699-ND	.97	.90	.67
2.5A	250	283-2697-ND	.97	.90	.67
3.15A	250	283-2700-ND	.97	.90	.67
4A	250	283-2703-ND	.97	.90	.67
5A	250	283-2705-ND	.97	.90	.67
6.3A	250	283-2706-ND	.97	.90	.67
10A	250	283-2937-ND ***NEW!***	1.85	1.71	1.29

† S501 is a European designation. GDA is a North America designation, identical product.

§ S500 is a European designation. GDB is a North America designation, identical product.

‡ S506 is a European designation. GDC is a North America designation, identical product.

◊ IEC Standard 127 Sheet II does not include ratings above 6.3 amps.

COOPER
Bussmann

5 x 20mm Metric Ferrule Fuses — UL Standard UL248-14

Features: Glass tube, nickel-plated brass endcap construction
Note: See data sheet for detailed Amperage Safety Approvals

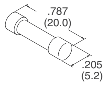

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
(GMA Series) - Fast-Acting, Low Breaking						
125mA	250	283-2883-ND ***NEW!***	.79	.73	.55	BK/GMA-125-R
250mA	250	283-2839-ND	.79	.73	.55	BK/GMA-250-R
500mA	250	283-2844-ND	.43	.40	.30	BK/GMA-500-R
750mA	250	283-2869-ND	.43	.40	.30	BK/GMA-750-R
1A	250	283-2837-ND	.35	.33	.25	BK/GMA-1-R
1.25A	250	283-2884-ND ***NEW!***	.35	.33	.25	BK/GMA-1.25-R
1.5A	250	283-2834-ND	.35	.33	.25	BK/GMA-1.5-R
2A	250	283-2840-ND	.35	.33	.25	BK/GMA-2-R
2.5A	250	283-2838-ND	.35	.33	.25	BK/GMA-2.5-R
3A	250	283-2841-ND	.35	.33	.25	BK/GMA-3-R
3.15A	125	283-2842-ND	.35	.33	.25	BK/GMA-3.15-R
4A	125	283-2843-ND	.35	.33	.25	BK/GMA-4-R
5A	125	283-2845-ND	.35	.33	.25	BK/GMA-5-R
6A	125	283-2885-ND ***NEW!***	.35	.33	.25	BK/GMA-6-R
8A	125	283-2886-ND ***NEW!***	.35	.33	.25	BK/GMA-8-R
10A	125	283-2835-ND	.35	.33	.25	BK/GMA-10-R
15A	125	283-2836-ND	.35	.33	.25	BK/GMA-15-R
NEW! (GMC Series) - Medium Time Delay, Low Breaking NEW!						
63mA	250	283-2887-ND	2.01	1.86	1.40	BK/GMC-63-R
100mA	250	283-2888-ND	1.91	1.77	1.33	BK/GMC-100-R
125mA	250	283-2889-ND	1.91	1.77	1.33	BK/GMC-125-R
250mA	250	283-2890-ND	1.09	1.01	.76	BK/GMC-250-R
500mA	250	283-2891-ND	.84	.78	.59	BK/GMC-500-R
750mA	250	283-2892-ND	.84	.78	.59	BK/GMC-750-R
800mA	250	283-2893-ND	.84	.78	.59	BK/GMC-800-R
1A	250	283-2894-ND	.84	.78	.59	BK/GMC-1-R
1.25A	250	283-2895-ND	.84	.78	.59	BK/GMC-1.25-R
1.5A	250	283-2896-ND	.84	.78	.59	BK/GMC-1.5-R
2A	250	283-2897-ND	.84	.78	.59	BK/GMC-2-R
2.5A	250	283-2898-ND	.84	.78	.59	BK/GMC-2.5-R
3A	250	283-2899-ND	.84	.78	.59	BK/GMC-3-R
3.15A	250	283-2900-ND	.84	.78	.59	BK/GMC-3.15-R
4A	125	283-2901-ND	.84	.78	.59	BK/GMC-4-R
5A	125	283-2902-ND	.84	.78	.59	BK/GMC-5-R
6.3A	125	283-2903-ND	.84	.78	.59	BK/GMC-6.3-R
8A	125	283-2904-ND	.84	.78	.59	BK/GMC-8-R
10A	125	283-2905-ND	.84	.78	.59	BK/GMC-10-R
NEW! (GMD Series) - Time Delay, Low Breaking NEW!						
125mA	250	283-2906-ND	2.39	2.21	1.66	BK/GMD-125-R
150mA	250	283-2907-ND	2.39	2.21	1.66	BK/GMD-150-R
250mA	250	283-2908-ND	1.12	1.04	.78	BK/GMD-250-R
315mA	250	283-2909-ND	1.12	1.04	.78	BK/GMD-315-R
500mA	250	283-2910-ND	.87	.81	.61	BK/GMD-500-R
750mA	250	283-2911-ND	.87	.81	.61	BK/GMD-750-R
1A	250	283-2912-ND	.87	.81	.61	BK/GMD-1-R
1.25A	250	283-2913-ND	.87	.81	.61	BK/GMD-1.25-R
1.5A	250	283-2914-ND	.87	.81	.61	BK/GMD-1.5-R
2A	250	283-2915-ND	.87	.81	.61	BK/GMD-2-R
2.5A	250	283-2916-ND	.87	.81	.61	BK/GMD-2.5-R
3A	250	283-2917-ND	.87	.81	.61	BK/GMD-3-R
4A	250	283-2918-ND	.87	.81	.61	BK/GMD-4-R

Panel Mount Fuseholders

For 1/4" x 1-1/4" (6.35 x 31.75mm) and .205" x .787" (5 x 20mm) Fuses

HTB Series

Construction Material:
- Terminals: Tin-plated brass
- Molded Components: Thermoplastic; UL Component Recognized; 94V0; mounting nut, spacer-black polycarbonate

Agency Approvals:
- VDE and SEMKO Certified 5 x 20mm only

Dimensional Data:
- Length (Knob Type) — 1.69" (42.9mm) Plus In-Line Terminal (Screwdriver Slotted) 1.75" (44.5mm) Note: Plus In-Line Terminal

Note: See data sheet for detailed Amperage Safety Approvals

Common Mounting Hole

HTB 2, 3, 4, & 5

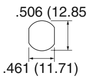

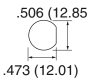

HTB 8 & 9

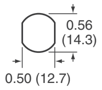

Terminal Options

Solder
3/16" (4.76mm) Quick-Connect

A

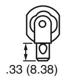

Right Angle

B

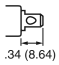

In-Line

1/4" (6.35mm) Quick-Connect

C

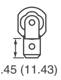

Right Angle

D

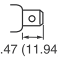

In-Line

Fig. 1

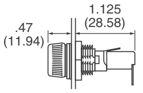

HTB-2: Low Profile
Rear Hex Nut

Fig. 2

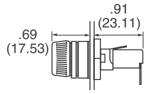

HTB-4: High Profile
Rear Hex Nut

Fig. 3

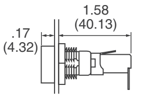

HTB-3: Low Profile
Rear Hex Nut

Fig. 4

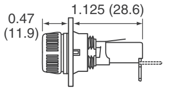

HTB-8: Low Profile
Snap-In

Fig. 5

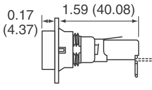

HTB-9: Low Profile
Snap-In

Fig.	Terminal Options	UL Current Rating	Panel Accepts Fuse	Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
1	A	15A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2711-ND	3.61	3.33	2.50	BK/HTB-24I-R
	B	15A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2851-ND	3.61	3.33	2.50	BK/HTB-22I-R
	D	20A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2852-ND	3.84	3.54	2.66	BK/HTB-26I-R
	A	15A	5 x 20mm	.30 (7.62)	283-2712-ND	3.84	3.54	2.66	BK/HTB-24M-R
	C	16A	5 x 20mm	.30 (7.62)	283-2921-ND ***NEW!***	4.32	3.99	3.00	BK/HTB-28M-R
2	B	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2714-ND	4.00	3.69	2.77	BK/HTB-42I-R
	A	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2715-ND	4.23	3.90	2.93	BK/HTB-44I-R
	D	20A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2717-ND	4.52	4.17	3.13	BK/HTB-46I-R
	C	20A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2718-ND	4.52	4.17	3.13	BK/HTB-48I-R
3	A	15A	5 x 20mm	.30 (7.62)	283-2713-ND	3.84	3.54	2.66	BK/HTB-34M-R
	B	15A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2870-ND	7.02	6.48	4.86	BK/HTB-32I-R
	D	20A	5 x 20mm	.30 (7.62)	283-2854-ND	3.84	3.54	3.00	BK/HTB-36M-R
	D	20A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2853-ND	3.84	3.54	2.66	BK/HTB-36I-R
4	B	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2855-ND	3.84	3.54	2.66	BK/HTB-82I-R
5	B	15A	5 x 20mm	.125 (3.18)	283-2856-ND	3.84	3.54	2.66	BK/HTB-92M-R

Fuseholders

Note: See data sheet for detailed Amperage Safety Approvals

Fig. 1

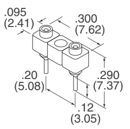

Fig. 2

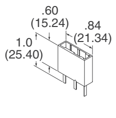

Fig. 3 ***NEW!***

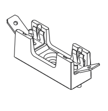

Fig. 4

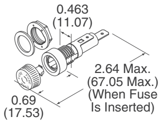

Fig. 5

Fuse Length	"L" with Fuse Installed
7/8"	2.100" Max.
1"	2.250" Max.
1-1/4"	2.420" Max.

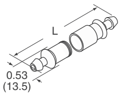

Fig. 6

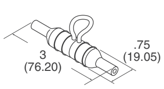

Fig. 7

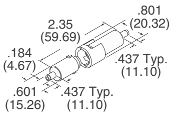

Fig. 8

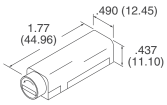

Fig. 9 ***NEW!***

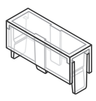

Fig. 10 ***NEW!***

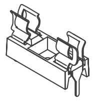

Fig. 11 ***NEW!***

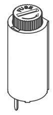

Fig. 12 ***NEW!***

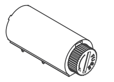

Fig. 13 ***NEW!***

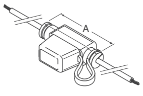

Fig. 14

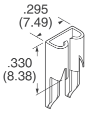

Fig. 15

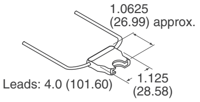

Fig. 16 ***NEW!***

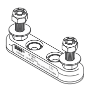

Fig.	Accepts Fuse Diameter	Mounting Type	Mating Area Style	Termination Style	Wire Gauge/Color	Materials		Additional Information	Digi-Key Part No.	Pricing			Cooper Bussmann Part No.
						Terminations/Finish	Body			1	10	100	
1	Radial (PC-Tron®, SR-5 Series)	PCB	Press Fit	PC Pin	—	Copper Alloy/Tin	Black Thermoplastic	—	283-2356-ND◆	.84	7.71	57.83	BK/PCS
2	Alarm Indicating (GMT Series)	PCB	Press Fit	PC Pin	—	Bifurcated Copper/Tin	Black Thermoplastic	—	283-2358-ND◆	3.90	36.00	270.00	BK/HLS
3	3AG (.250" Diameter)	Chassis	Press Fit	Solder/QC .250"	—	Spring Bronze/ Bright Tin	Black Thermoplastic	—	283-2938-ND◆ ***NEW!***	1.24	11.40	85.50	BK/S-8202-1-R
4	3AG (.250" Diameter)	Panel	Bayonet	QC .250"	—	Brass/Tin	Black Thermoset (150°C)	Neoprene washer	283-2849-ND◆	4.97	4.59	3.45	BK/HKP-HH-R
	3AG (.250" Diameter)	Panel	Bayonet	Solder	—	Brass/Tin	Black Thermoset (150°C)	Neoprene washer	283-2850-ND◆	4.00	3.69	2.77	BK/HKP-R
5	3AG (.250" Diameter)	In-Line	Snap Lock	Wire Crimp	No Wire (16-12AWG)	Copper/Tin	Yellow Nylon	—	283-2848-ND◆	1.88	1.74	1.30	BK/HHB-R
6	3AG (.250" Diameter)	In-Line	Press Fit	Wire Crimp	No Wire (10AWG)	Copper/Tin	Yellow Thermoplastic Rubber	Waterproof	283-2355-ND	13.52	12.48	9.36	BK/HFB-10
	3AG (.250" Diameter)	In-Line	Press Fit	Wire Crimp	No Wire (18-12AWG)	Copper/Tin	Yellow Thermoplastic Rubber	Waterproof	283-2919-ND◆ ***NEW!***	7.77	7.17	5.38	BK/HFB-R
7	3AG (.250" Diameter)	In-Line	Bayonet	Wire Crimp	No Wire (16-12AWG)	Copper/Tin	Black Phenolic (150°C)	Waterproof	283-2847-ND◆	22.10	20.40	15.30	BK/HFA-R
8	3AG (.250" Diameter)	PCB	Bayonet	PC Pin	—	Copper Alloy/Tin	Black Thermoplastic	Screwdriver Slot/ Gray	283-2709-ND◆	4.06	37.50	281.25	BK/HBH-I-R
	5 x 20mm	PCB	Bayonet	PC Pin	—	Copper Alloy/Tin	Black Thermoplastic	Screwdriver Slot/ Black	283-2710-ND◆	5.30	48.90	366.75	BK/HBH-M-R
9	Cover for HTC-15M	Clip On	—	—	—	—	Thermoplastic	Transparent	283-2922-ND◆ ***NEW!***	.61	5.61	42.08	BK/HTC-150M
10	5 x 20mm	PCB	Press Fit	PC Pin	—	Spring Bronze/ Nickel-Tin	Grey Thermoplastic	—	283-2923-ND◆ ***NEW!***	1.08	9.96	74.70	BK/HTC-15M
11	5 x 20mm	PCB	Bayonet	PC Pin	—	Copper/Tin	Black Thermoplastic	Screwdriver Slot	283-2925-ND◆ ***NEW!***	3.84	35.40	265.50	BK/HTC-45M
12	5 x 20mm	PCB	Bayonet	PC Pin	—	Copper/Tin	Black Thermoplastic	Screwdriver Slot	283-2926-ND◆ ***NEW!***	3.84	35.40	265.50	BK/HTC-50M
13	MINI® Blade	In-Line	Press Fit	Wire Leads	16AWG/Black	Copper/Tin	Black Thermoplastic	Dust Cover	283-2947-ND◆ ***NEW!***	8.06	7.44	5.58	HHL
	MINI® Blade	In-Line	Press Fit	Wire Leads	12AWG/Red	Copper/Tin	Black Thermoplastic	Dust Cover	283-2948-ND◆ ***NEW!***	8.81	8.13	6.10	HHM
14	Standard ATC Blade	PCB	Press Fit .250"	PC Pin	—	Cartridge Brass/ Satin Tin	—	—	283-2604-ND◆	.61	.57	.43	BK/1A5600
15	Standard ATC Blade	In-Line	Press Fit	Wire Leads	16AWG/Black	Copper/Tin	Yellow Thermoplastic	—	283-2357-ND◆	4.94	4.56	3.42	BK/HHC
	Standard ATC Blade	In-Line	Press Fit	Wire Leads	16AWG/Yellow	Copper/Tin	Black Thermoplastic	—	283-2946-ND◆ ***NEW!***	7.90	7.29	5.47	HHF
	Standard ATC Blade	In-Line	Press Fit	Wire Leads	12AWG/Yellow	Copper/Tin	Black Thermoplastic	Dust Cover	283-2920-ND◆ ***NEW!***	6.73	62.10	465.75	BK/HHG
16	ANL Series	Chassis	Stud	Screw	—	—	Black Thermoplastic	—	283-2949-ND◆ ***NEW!***	41.45	36.84	25.79	4164

◆ RoHS Compliant

Printed Circuit Board Fuseclips

Fig. 1

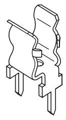

Fig. 2

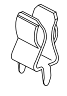

Fig. 3

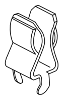

Fig. 4

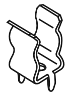

Fig. 5

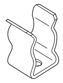

Fig. 6

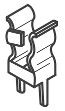

Fig. 7 ***NEW!***

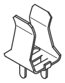

Fig.	Accepts Fuse Diameter	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Pricing			Cooper Bussmann Part No.
							1	10	100	
1	5mm	Yes	Straight	Spring Bronze	Bright Tin	283-2603-ND	.24	2.22	16.65	1A5018-10-R
2	1/4" 3AG	Yes	Straight	Beryllium Copper	Bright Tin	283-2826-ND	.67	6.15	46.13	BK/1A1907-03-R
	1/4" 3AG	Yes	Straight	Beryllium Copper	Silver	283-2342-ND	.70	6.42	48.15	1A1907-05
	1/4" 3AG	Yes	Straight	Cartridge Brass	Bright Tin	283-2601-ND	.18	1.68	12.60	1A1907-06-R
	5mm	Yes	Straight	Beryllium Copper	Silver	283-2865-ND	.69	6.36	47.70	BK/1A3399-01
	5mm	Yes	Straight	Beryllium Copper	Bright Tin	283-2827-ND	.66	6.06	45.45	BK/1A3399-04-R
	5mm	Yes	Straight	Spring Bronze	Bright Tin	283-2828-ND	.26	2.37	17.78	BK/1A3399-10-R
	13/32"	Yes	Straight	Spring Bronze	Bright Tin	283-2829-ND	.69	6.39	47.93	BK/1A3400-09-R
	13/32"	Yes	Straight	Beryllium Copper	Silver	283-2830-ND	.72	6.69	50.18	BK/1A3400-10
	5mm	Yes	Straight‡	Cartridge Brass	Bright Tin	283-2832-ND	.70	6.45	48.38	BK/1A5601
3	1/4" 3AG	Yes	Angled-In	Beryllium Copper	Bright Tin	283-2825-ND	1.24	11.40	85.50	BK/1A1119-03-R
	1/4" 3AG	Yes	Angled-In	Beryllium Copper	Silver	283-2864-ND	.65	5.97	44.78	BK/1A1119-05
	1/4" 3AG	Yes	Angled-In	Cartridge Brass	Bright Tin	283-2598-ND	.33	3.00	22.50	1A1119-10-R
	1/4" 3AG	Yes	Angled-Out	Beryllium Copper	Bright Tin	283-2831-ND	.53	4.86	36.45	BK/1A4534-01-R
4	1/4" 3AG	No	Angled-In	Cartridge Brass	Bright Tin	283-2599-ND	.35	3.24	24.30	1A1120-09-R
	1/4" 3AG	No	Straight	Cartridge Brass	Bright Tin	283-2602-ND	.25	2.28	17.10	1A3398-07-R
5	1/4" 3AG	No	None	Spring Bronze	Bright Tin	283-2337-ND	.35	3.27	24.53	5681-15
6	5mm	Yes	Angled-In	Cartridge Brass	Bright Tin	283-2866-ND	.49	4.56	34.20	BK/1A5602
7	5mm	Yes	Straight	Cartridge Brass	Bright Tin	283-2924-ND ***NEW!***	.28	2.61	19.58	BK/HTC-210M

† Beryllium copper recommended for currents higher than 15 amps (1/4" or 6.35mm clips). ‡ Locking Mounting Leads

SMT Power Cross Protection Fuse Type SMP

SMP Fuses guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

Specifications:
• **Voltage Rating:** 600V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Body/Tin plated Brass Caps, Lead Free Solder • **Packaging:** 13 inch diameter reel, 16mm wide tape, 8mm pitch, per EIA standard 481

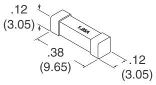

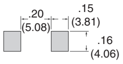

Amp Rating	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Bel Fuse Part No.
		1	10	100	2,000	
500mA	507-1038-1-ND	1.55	1.38	.98	460.00/M	SMP 500
1.25A	507-1039-1-ND	1.55	1.38	.98	460.00/M	SMP 1.25

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT 6125 (2410) Size Square Ceramic Fast Acting Fuse Type SSQ

Specifications:
• **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C
• **Construction Material:** Ceramic Body/Palladium Plated Brass Caps
• **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481
Electrical Characteristics:
• Test Current 100%, Blow Time 4 Hours Minimum; Test Current 200% Blow Time 5 seconds Maximum

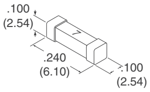

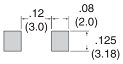

Amp Rating	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Bel Fuse Part No.
		1	10	100	1,000	
250mA	507-1041-1-ND	.68	.61	.43	202.00	SSQ 250
500mA	507-1043-1-ND	.68	.61	.43	202.00	SSQ 500
750mA	507-1044-1-ND	.68	.61	.43	202.00	SSQ 750
1A	507-1045-1-ND	.68	.61	.43	202.00	SSQ 1
1.25A	507-1046-1-ND	.68	.61	.43	202.00	SSQ 1.25
1.5A	507-1047-1-ND	.68	.61	.43	202.00	SSQ 1.5
2A	507-1048-1-ND	.68	.61	.43	202.00	SSQ 2
2.5A	507-1049-1-ND	.68	.61	.43	202.00	SSQ 2.5
3A	507-1050-1-ND	.68	.61	.43	202.00	SSQ 3
3.5A	507-1051-1-ND	.68	.61	.43	202.00	SSQ 3.5
4A	507-1052-1-ND	.68	.61	.43	202.00	SSQ 4
5A	507-1053-1-ND	.68	.61	.43	202.00	SSQ 5
6.3A	507-1054-1-ND	.68	.61	.43	202.00	SSQ 6.3
7A	507-1055-1-ND	.68	.61	.43	202.00	SSQ 7
8A	507-1056-1-ND	.68	.61	.43	202.00	SSQ 8
10A	507-1057-1-ND	.68	.61	.43	202.00	SSQ 10
12A	507-1058-1-ND	.68	.61	.43	202.00	SSQ 12
15A	507-1059-1-ND	.90	.80	.57	266.00	SSQ 15

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT 6125 (2410) Size Square Ceramic Slow Blow Fuse Type SST

Specifications:
• **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C
• **Construction Material:** Ceramic Body/Palladium Plated Brass Caps • **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481 • UL/CSA STD 248-14

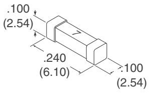

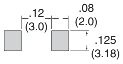

Amp Rating	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Bel Fuse Part No.
		1	10	100	1,000	
375mA	507-1060-1-ND	1.17	1.04	.74	346.00	SST 375
500mA	507-1061-1-ND	1.17	1.04	.74	346.00	SST 500
750mA	507-1063-1-ND	1.17	1.04	.74	346.00	SST 750
1A	507-1064-1-ND	1.17	1.04	.74	346.00	SST 1
1.5A	507-1065-1-ND	1.17	1.04	.74	346.00	SST 1.5
2A	507-1066-1-ND	1.17	1.04	.74	346.00	SST 2
2.5A	507-1067-1-ND	1.17	1.04	.74	346.00	SST 2.5
3A	507-1068-1-ND	1.17	1.04	.74	346.00	SST 3
3.5A	507-1069-1-ND	1.17	1.04	.74	346.00	SST 3.5
4A	507-1070-1-ND	1.17	1.04	.74	346.00	SST 4
5A	507-1071-1-ND	1.17	1.04	.74	346.00	SST 5
7A	507-1072-1-ND	1.17	1.04	.74	346.00	SST 7

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT 0603 Size Very Fast-Acting Chip Fuse Type C2Q

Specifications: • **Voltage Rating:** 32V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Substrate/Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • UL/CSA STD 248-14

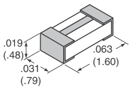

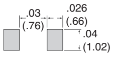

Infrared solder layout for PCB. See data-sheet for wave solder.

Amp Rating	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel* Pricing	Bel Fuse Part No.
		1	10	100	5,000	
250mA	507-1086-1-ND	.55	.49	.35	142.00/M	C2Q 250
300mA	507-1087-1-ND	.55	.49	.35	142.00/M	C2Q 300
375mA	507-1088-1-ND	.55	.49	.35	142.00/M	C2Q 375
500mA	507-1089-1-ND	.55	.49	.35	142.00/M	C2Q 500
750mA	507-1090-1-ND	.55	.49	.35	142.00/M	C2Q 750
1A	507-1091-1-ND	.55	.49	.35	142.00/M	C2Q 1
1.25A	507-1092-1-ND	.55	.49	.35	142.00/M	C2Q 1.25
1.5A	507-1093-1-ND	.55	.49	.35	142.00/M	C2Q 1.5
2A	507-1094-1-ND	.55	.49	.35	142.00/M	C2Q 2
2.5A	507-1095-1-ND	.55	.49	.35	142.00/M	C2Q 2.5
3A	507-1096-1-ND	.55	.49	.35	142.00/M	C2Q 3
3.5A	507-1097-1-ND	.55	.49	.35	142.00/M	C2Q 3.5
4A	507-1098-1-ND	.55	.49	.35	142.00/M	C2Q 4
5A	507-1099-1-ND	.55	.49	.35	142.00/M	C2Q 5

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT 1206 Size Very Fast-Acting/ Slow Blow Chip Fuse Type C1Q and C1S

C1S C1Q C1Q C1Q, C1S

Specifications: • **Voltage Rating:** Type C1Q: 125V; Type C1S: 63V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Substrate/Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • **Type C1Q:** UL/CSA STD 248-14; **Type C1S:** UL STD 248-14

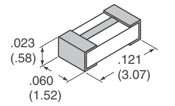

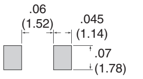

Infrared solder layout for PCB. See data sheet for wave solder.

Amp Rating	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel* Pricing	Bel Fuse Part No.
		1	10	100	5,000	
C1Q Type – Fast Acting						
250mA	507-1073-1-ND	.55	.49	.35	142.00/M	C1Q 250
375mA	507-1074-1-ND	.55	.49	.35	142.00/M	C1Q 375
500mA	507-1075-1-ND	.55	.49	.35	142.00/M	C1Q 500
750mA	507-1076-1-ND	.55	.49	.35	142.00/M	C1Q 750
1A	507-1077-1-ND	.55	.49	.35	142.00/M	C1Q 1
1.25A	507-1078-1-ND	.55	.49	.35	142.00/M	C1Q 1.25
1.5A	507-1079-1-ND	.55	.49	.35	142.00/M	C1Q 1.5
2A	507-1080-1-ND	.55	.49	.35	142.00/M	C1Q 2
2.5A	507-1081-1-ND	.55	.49	.35	142.00/M	C1Q 2.5
3A	507-1082-1-ND	.55	.49	.35	142.00/M	C1Q 3
3.5A	507-1083-1-ND	.55	.49	.35	142.00/M	C1Q 3.5
4A	507-1084-1-ND	.55	.49	.35	142.00/M	C1Q 4
5A	507-1085-1-ND	.55	.49	.35	142.00/M	C1Q 5
C1S Type – Slow Blow						
750mA	507-1185-1-ND	.62	.56	.40	161.00/M	C1S 750
1A	507-1186-1-ND	.62	.56	.40	161.00/M	C1S 1
1.25A	507-1187-1-ND	.62	.56	.40	161.00/M	C1S 1.25
1.5A	507-1188-1-ND	.62	.56	.40	161.00/M	C1S 1.5
2A	507-1189-1-ND	.62	.56	.40	161.00/M	C1S 2
2.5A	507-1190-1-ND	.62	.56	.40	161.00/M	C1S 2.5
3A	507-1191-1-ND	.62	.56	.40	161.00/M	C1S 3
3.5A	507-1192-1-ND	.62	.56	.40	161.00/M	C1S 3.5
4A	507-1193-1-ND	.62	.56	.40	161.00/M	C1S 4
5A	507-1194-1-ND	.62	.56	.40	161.00/M	C1S 5

* For Tape and Reel part number, change 1-ND to 2-ND.

(5x20mm) Fuse, Low Breaking Capacity Type 5SF, 5ST

IEC-127-2

Materials: • Glass body/Nickel plated brass caps **Operating Temperature:** -55°C ~ 125°C

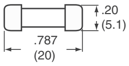

Amp Rating	Digi-Key Part No.	Price Each			Bel Fuse Part No.
		1	10	100	
5SF Series - Fast Acting Fuse					
80mA	507-1218-ND	.41	.37	.26	5SF 80-R
100mA	507-1219-ND	.41	.37	.26	5SF 100-R
125mA	507-1220-ND	.41	.37	.26	5SF 125-R
200mA	507-1221-ND	.41	.37	.26	5SF 200-R
400mA	507-1223-ND	.41	.37	.26	5SF 400-R
500mA	507-1224-ND	.41	.37	.26	5SF 500-R
1A	507-1225-ND	.41	.37	.26	5SF 1-R
2A	507-1228-ND	.41	.37	.26	5SF 2-R
6.3A	507-1233-ND	.41	.37	.26	5SF 6.3-R
8A	507-1234-ND	.41	.37	.26	5SF 8-R
10A	507-1235-ND	.41	.37	.26	5SF 10-R
5ST Series - Time Lag Fuse					
63mA	507-1236-ND	.41	.37	.26	5ST 63-R
80mA	507-1237-ND	.41	.37	.26	5ST 80-R
100mA	507-1238-ND	.41	.37	.26	5ST 100-R
125mA	507-1239-ND	.41	.37	.26	5ST 125-R
200mA	507-1240-ND	.41	.37	.26	5ST 200-R
250mA	507-1241-ND	.41	.37	.26	5ST 250-R
500mA	507-1243-ND	.41	.37	.26	5ST 500-R
630mA	507-1244-ND	.41	.37	.26	5ST 630-R
800mA	507-1245-ND	.41	.37	.26	5ST 800-R
1A	507-1246-ND	.41	.37	.26	5ST 1-R
1.25A	507-1247-ND	.41	.37	.26	5ST 1.25-R
1.6A	507-1248-ND	.41	.37	.26	5ST 1.6-R
2A	507-1249-ND	.41	.37	.26	5ST 2-R
2.5A	507-1250-ND	.41	.37	.26	5ST 2.5-R
3.15A	507-1251-ND	.41	.37	.26	5ST 3.15-R
4A	507-1252-ND	.41	.37	.26	5ST 4-R
5A	507-1253-ND	.41	.37	.26	5ST 5-R
6.3A	507-1254-ND	.41	.37	.26	5ST 6.3-R
8A	507-1255-ND	.41	.37	.26	5ST 8-R
10A	507-1256-ND	.41	.37	.26	5ST 10-R

(5x20mm) Fuse, High Breaking Capacity Type 5HF, 5HT

IEC-127-2

Materials: • Ceramic body/Nickel plated brass caps
Operating Temperature: -55°C ~ 125°C

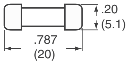

Amp Rating	Digi-Key Part No.	Price Each			Bel Fuse Part No.
		1	10	100	
5HF Series - Fast Acting Fuse					
1A	507-1198-ND	.54	.48	.34	5HF 1-R
3.15A	507-1201-ND	.54	.48	.34	5HF 3.15-R
4A	507-1202-ND	.54	.48	.34	5HF 4-R
5A	507-1203-ND	.54	.48	.34	5HF 5-R
6.3A	507-1204-ND	.54	.48	.34	5HF 6.3-R
8A	507-1205-ND	.54	.48	.34	5HF 8-R
10A	507-1206-ND	.54	.48	.34	5HF 10-R
5HT Series - Time Lag Fuse					
1A	507-1207-ND	.54	.48	.34	5HT 1-R
1.25A	507-1208-ND	.54	.48	.34	5HT 1.25-R
2A	507-1210-ND	.54	.48	.34	5HT 2-R
2.5A	507-1211-ND	.54	.48	.34	5HT 2.5-R
3.15A	507-1212-ND	.54	.48	.34	5HT 3.15-R
4A	507-1213-ND	.54	.48	.34	5HT 4-R
5A	507-1214-ND	.54	.48	.34	5HT 5-R
6.3A	507-1215-ND	.54	.48	.34	5HT 6.3-R
8A	507-1216-ND	.54	.48	.34	5HT 8-R
10A	507-1217-ND	.54	.48	.34	5HT 10-R

(5x20mm) Fuses Type 5MF, 5MT and 5TT

UL/CSA STD 248-I4

Operating Temperature: -55°C ~ 125°C
Materials: **5MF, 5MT:** • Glass Body/Nickel Plated Brass Caps. **5TT:** • 5A and less, Glass Body/Nickel Plated Brass Caps, 6A and above, Ceramic body/Nickel Plated Brass Caps

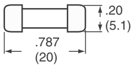

Amp Rating	Digi-Key Part No.	Pricing			Bel Fuse Part No.
		1	10	100	
5MF Series - Fast Acting Fuse					
250mA	507-1257-ND	.34	3.06	21.68	5MF 250-R
300mA	507-1258-ND	.34	3.06	21.68	5MF 300-R
500mA	507-1259-ND	.34	3.06	21.68	5MF 500-R
1A	507-1261-ND	.34	3.06	21.68	5MF 1-R
1.5A	507-1263-ND	.34	3.06	21.68	5MF 1.5-R
2A	507-1264-ND	.34	3.06	21.68	5MF 2-R
3A	507-1266-ND	.34	3.06	21.68	5MF 3-R
4A	507-1268-ND	.34	3.06	21.68	5MF 4-R
5A	507-1269-ND	.34	3.06	21.68	5MF 5-R
7A	507-1271-ND	.34	3.06	21.68	5MF 7-R
8A	507-1272-ND	.34	3.06	21.68	5MF 8-R
5MT Series - Medium Acting Fuse					
250mA	507-1273-ND	.44	3.90	27.63	5MT 250-R
500mA	507-1275-ND	.44	3.90	27.63	5MT 500-R
750mA	507-1276-ND	.44	3.90	27.63	5MT 750-R
1A	507-1277-ND	.44	3.90	27.63	5MT 1-R
2A	507-1278-ND	.44	3.90	27.63	5MT 2-R
2.5A	507-1279-ND	.44	3.90	27.63	5MT 2.5-R

(Continued)

(5x20mm) Fuses Type 5MF, 5MT and 5TT

UL/CSA STD 248-I4 *(Cont.)*

Amp Rating	Digi-Key Part No.	Pricing 1	10	100	Bel Fuse Part No.
3A	507-1280-ND	.44	3.90	27.63	5MT 3-R
3.5A	507-1281-ND	.44	3.90	27.63	5MT 3.5-R
4A	507-1282-ND	.44	3.90	27.63	5MT 4-R
5A	507-1283-ND	.44	3.90	27.63	5MT 5-R
7A	507-1284-ND	.44	3.90	27.63	5MT 7-R
5TT Series - Time Lag Fuse					
125mA	507-1285-ND	.53	4.74	33.58	5TT 125-R
250mA	507-1286-ND	.53	4.74	33.58	5TT 250-R
300mA	507-1287-ND	.53	4.74	33.58	5TT 300-R
750mA	507-1290-ND	.53	4.74	33.58	5TT 750-R
1A	507-1291-ND	.53	4.74	33.58	5TT 1-R
1.5A	507-1293-ND	.53	4.74	33.58	5TT 1.5-R
1.6A	507-1294-ND	.53	4.74	33.58	5TT 1.6-R
2A	507-1295-ND	.53	4.74	33.58	5TT 2-R
3A	507-1297-ND	.53	4.74	33.58	5TT 3-R
4A	507-1298-ND	.53	4.74	33.58	5TT 4-R
5A	507-1299-ND	.53	4.74	33.58	5TT 5-R
6A	507-1300-ND	.53	4.74	33.58	5TT 6-R
7A	507-1301-ND	.53	4.74	33.58	5TT 7-R
8A	507-1302-ND	.53	4.74	33.58	5TT 8-R
10A	507-1303-ND	.53	4.74	33.58	5TT 10-R

(5x20mm) Fuse Clip

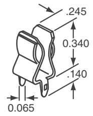

PCB locking tabs on legs that "lock" onto underside of PCB to prevent floating of clip during solder reflow.

Material: • Brass, 0.020 inch thick

Plating: • Bright tin: 150 microinch minimum thickness

Description	Digi-Key Part No.	Pricing 1	10	100	Bel Fuse Part No.
Fuse Clip	507-1415-ND	.18	1.56	11.05	FC 211

Telecom Power Cross and Balast Protection Type RJS

UL/CSA STD. 248-14

RJS fuses are primarily designed for use in telecommunications circuits which require compliance with the test requirements specified in UL/IEC 1950 / 60950 and Telcordia GR 1089, Issue 3.

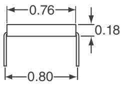

Materials:

- Body: Glass
- Lead Wire: Matte Tin Plated Copper, Diameter 0.032"

Voltage Rating: 600V

Operating Temperature: -55°C ~ 125°C

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
1.25	507-1416-ND	.55	.50	.35	RJS 1.25-R
1.5	507-1417-ND	.55	.50	.35	RJS 1.5-R
2	507-1418-ND	.55	.50	.35	RJS 2-R

Radial Lead Time Lag Micro Fuse Series, Type MRT

IEC 127-3, SS4

Specifications:

• **Voltage Rating:** 250V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Base and Cap: Black thermoplastic, UL94-VO Pins: Tin-plated copper alloy • **Packaging:** Bulk, 250 pieces per bag, 1,000 pieces per box (Short Leads), Tape and Ammo pack: 1,000 pieces per box, per IEC-286-2 (Long Leads)

Bulk

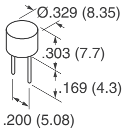

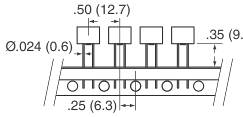

Tape and Ammo

MRT Time Lag – Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1101-ND	.68	.61	.43	MRT 100
250mA	507-1105-ND	.68	.61	.43	MRT 250
500mA	507-1108-ND	.68	.61	.43	MRT 500
630mA	507-1109-ND	.68	.61	.43	MRT 630
1A	507-1111-ND	.68	.61	.43	MRT 1
1.6A	507-1113-ND	.68	.61	.43	MRT 1.6
2A	507-1114-ND	.68	.61	.43	MRT 2
2.5A	507-1115-ND	.68	.61	.43	MRT 2.5
3.15A	507-1116-ND	.68	.61	.43	MRT 3.15
4A	507-1117-ND	.68	.61	.43	MRT 4
5A	507-1118-ND	.68	.61	.43	MRT 5

Radial Lead Time Lag Micro Fuse Series, Type RST

IEC 127-3, SS4

Specifications:

- **Voltage Rating:** 250V
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Material:** Base and Cover: Black thermoplastic, UL 94-V0 Pins: Tin plated copper alloy
- **Packaging:** Bulk, 1,000 pieces per box

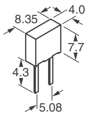

Amp Rating	Digi-Key Part No.	Bulk Pricing 1	10	100	Bel Fuse Part No.
100mA	507-1166-ND	.20	1.87	15.15	RST 100
200mA	507-1169-ND	.20	1.87	15.15	RST 200
250mA	507-1170-ND	.20	1.87	15.15	RST 250
315mA	507-1171-ND	.20	1.87	15.15	RST 315
400mA	507-1172-ND	.20	1.87	15.15	RST 400
500mA	507-1173-ND	.20	1.87	15.15	RST 50
630mA	507-1174-ND	.20	1.87	15.15	RST 630

Amp Rating	Digi-Key Part No.	Bulk Pricing 1	10	100	Bel Fuse Part No.
800mA	507-1175-ND	.20	1.87	15.15	RST 800
1A	507-1176-ND	.20	1.87	15.15	RST 1
1.25A	507-1177-ND	.20	1.87	15.15	RST 1.25
1.6A	507-1178-ND	.20	1.87	15.15	RST 1.6
2A	507-1179-ND	.20	1.87	15.15	RST 2
2.5A	507-1180-ND	.20	1.87	15.15	RST 2.5
3.15A	507-1181-ND	.20	1.87	15.15	RST 3.15
4A	507-1182-ND	.20	1.87	15.15	RST 4
5A	507-1183-ND	.20	1.87	15.15	RST 5
6.3A	507-1184-ND	.20	1.87	15.15	RST 6.3

Axial Micro Fuses Type MQ and MS

Specifications:

- **Voltage Rating:** 125V
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Material:** Body: Molded with UL Recognized epoxy component plastic L94-V0. Lead Wire: Tin-Lead plated Copper
- **Packaging:** Bulk: 250 pieces per bag/1,000 pieces per box
- UL/CSA STD 248-14

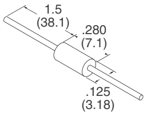

MQ Fast Acting - Bulk

Amp Rating	Digi-Key Part No.	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1004-ND	.67	.60	.43	MQ 100
125mA	507-1005-ND	.67	.60	.43	MQ 125
200mA	507-1007-ND	.67	.60	.43	MQ 200
250mA	507-1008-ND	.67	.60	.43	MQ 250
375mA	507-1010-ND	.67	.60	.43	MQ 375
500mA	507-1011-ND	.67	.60	.43	MQ 500
750mA	507-1012-ND	.67	.60	.43	MQ 750
1A	507-1013-ND	.67	.60	.43	MQ 1
1.5A	507-1014-ND	.67	.60	.43	MQ 1.5
2A	507-1015-ND	.67	.60	.43	MQ 2
2.5A	507-1016-ND	.67	.60	.43	MQ 2.5
3A	507-1017-ND	.67	.60	.43	MQ 3
4A	507-1018-ND	.67	.60	.43	MQ 4
5A	507-1019-ND	.67	.60	.43	MQ 5
7A	507-1020-ND	.67	.60	.43	MQ 7
10A	507-1021-ND	.67	.60	.43	MQ 10
15A	507-1023-ND	.67	.60	.43	MQ 15

MS Slow Blow - Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
250mA	507-1024-ND	.91	.81	.58	MS 250
375mA	507-1026-ND	.91	.81	.58	MS 375
500mA	507-1027-ND	.91	.81	.58	MS 500
750mA	507-1028-ND	.91	.81	.58	MS 750
1A	507-1029-ND	.91	.81	.58	MS 1
1.25A	507-1030-ND	.91	.81	.58	MS 1.25
1.5A	507-1031-ND	.91	.81	.58	MS 1.5
2A	507-1032-ND	.91	.81	.58	MS 2
2.5A	507-1033-ND	.91	.81	.58	MS 2.5
3A	507-1034-ND	.91	.81	.58	MS 3
4A	507-1035-ND	.91	.81	.58	MS 4
5A	507-1036-ND	.91	.81	.58	MS 5
7A	507-1037-ND	.91	.81	.58	MS 7

SCHURTER

ELECTRONIC COMPONENTS

FSF and FST Series 5x20mm Miniature Fuses

Specifications: • Rated Voltage: 250VAC • Ambient Temperature Range: -55°C ~ 125°C • Tube Material: Glass • End Cap Material: Nickel plated copper alloy

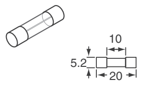

Dim. in mm

Current Rating (A)	Pre-Arcing Rating 1.5 x In (Min.)	2.1 x In (Max.)	2.75 x In (Max.)	10.0 x In (Max.)
FSF Series				
0.25 ~ 6.3	60 minutes	30 minutes	2 seconds	20 milliseconds
8 ~ 10	30 minutes	30 minutes	2 seconds	40 milliseconds
FST Series				
0.02	60 minutes	—	—	300 milliseconds
0.32 ~ 6.3	60 minutes	120 seconds	10 seconds	300 milliseconds
8 ~ 20	30 minutes	120 seconds	10 seconds	300 milliseconds

Rated Current (A)	Breaking Capacity @250VAC	Digi-Key Part No.	Pricing 1	25	50	Schurter Part No.
FSF Series — Fast Acting						
0.25	35A	486-1230-ND	1.05	21.05	37.89	0034.1510
0.315	35A	486-1231-ND	1.05	21.05	37.89	0034.1511
0.4	35A	486-1232-ND	1.05	21.05	37.89	0034.1512
0.5	35A	486-1233-ND	.23	4.50	8.10	0034.1513
1.0	35A	486-1234-ND	.23	4.50	8.10	0034.1516
1.6	35A	486-1235-ND	.23	4.50	8.10	0034.1518
2.0	35A	486-1236-ND	.23	4.50	8.10	0034.1519
2.5	35A	486-1237-ND	.23	4.50	8.10	0034.1520
3.15	35A	486-1238-ND	.23	4.50	8.10	0034.1521
4.0	10In.	486-1239-ND	.23	4.50	8.10	0034.1522
5.0	10In.	486-1240-ND	.23	4.50	8.10	0034.1523
6.3	10In.	486-1241-ND	.32	6.40	11.52	0034.1524
8.0	10In.	486-1242-ND	.32	6.40	11.52	0034.1525

Rated Current (A)	Breaking Capacity @250VAC	Digi-Key Part No.	Pricing 1	25	50	Schurter Part No.
10.0	10In.	486-1243-ND	.32	6.40	11.52	0034.1526
FST Series — Time Lag						
0.02	35A	486-1326-ND†	7.01	140.15	252.27	0034.3101
0.032	35A	486-1327-ND†	7.01	140.15	252.27	0034.3102
0.04	35A	486-1328-ND	7.01	140.15	252.27	0034.3103
0.05	35A	486-1329-ND	.52	10.35	18.63	0034.3104
0.063	35A	486-1330-ND	.52	10.35	18.63	0034.3105
0.08	35A	486-1331-ND	.52	10.35	18.63	0034.3106
0.1	35A	486-1332-ND	.52	10.35	18.63	0034.3107
0.125	35A	486-1333-ND	.52	10.35	18.63	0034.3108
0.16	35A	486-1334-ND	.32	6.30	11.34	0034.3109
0.2	35A	486-1335-ND	.32	6.30	11.34	0034.3110
0.25	35A	486-1214-ND	.53	10.55	18.99	0034.3111

† Not VDE Approved

(Continued)

SCHURTER
ELECTRONIC COMPONENTS

FSF and FST Series 5x20mm Miniature Fuses *(Cont.)*

Rated Current (A)	Breaking Capacity @250VAC	Digi-Key Part No.	Pricing 1	25	50	Schurter Part No.
0.315	35A	486-1215-ND	.32	6.30	11.34	0034.3112
0.4	35A	486-1216-ND	.32	6.30	11.34	0034.3113
0.5	35A	486-1217-ND	.32	6.30	11.34	0034.3114
0.63	35A	486-1336-ND	.32	6.30	11.34	0034.3115
0.8	35A	486-1337-ND	.32	6.30	11.34	0034.3116
1.0	35A	486-1338-ND	.32	6.30	11.34	0034.3117
1.25	35A	486-1339-ND	.32	6.30	11.34	0034.3118
1.4	35A	486-1340-ND†	1.31	26.25	47.25	0034.3165
1.6	35A	486-1218-ND	.32	6.30	11.34	0034.3119
2.0	35A	486-1219-ND	.32	6.30	11.34	0034.3120
2.5	35A	486-1220-ND	.32	6.30	11.34	0034.3121
3.15	35A	486-1221-ND	.32	6.30	11.34	0034.3122
4.0	10In.	486-1222-ND	.32	6.30	11.34	0034.3123
5.0	10In.	486-1223-ND	.32	6.30	11.34	0034.3124
6.3	10In.	486-1224-ND	.32	6.30	11.34	0034.3125
8.0	10In.	486-1225-ND	.32	6.30	11.34	0034.3126
10	10In.	486-1226-ND	.32	6.30	11.34	0034.3127
12.5	125A	486-1227-ND†	.52	10.35	18.63	0034.3128
16	125A	486-1228-ND†	.52	10.35	18.63	0034.3129
20	125A	486-1229-ND†	.52	10.35	18.63	0034.3130

† Not VDE Approved

UMT 250 and USI 1206 Series Surface Mount Fuses

UMT 250 Series

Specifications:

- Rated Voltage: 250VAC, 125VDC
- Ambient Temperature Range: -55°C ~ 125°C
- Housing Material: Ceramic
- Terminal Material: Tin-plated copper alloy

USI 1206 Series

Specifications:

- Rated Voltage: 32VAC, 63VDC
- Ambient Temperature Range: -55°C ~ 90°C
- Housing Material: Epoxy glass
- Terminal Material: Tin-plated copper alloy

Fig. 1

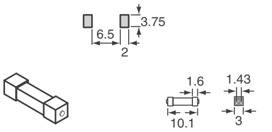

Fig. 2

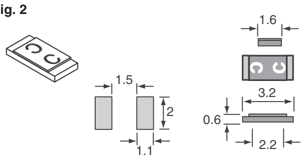

Series	Pre-Arcing Rating 1.25 x In (Min.)	2.0 x In (Max.)	10.0 x In (Min.)	10.0 x In (Max.)
UMT 250	60 minutes	120 seconds	10 milliseconds	100 milliseconds
USI 1206	60 minutes	120 seconds	1 milliseconds	10 milliseconds

Rated Current (A)	Breaking Capacity (A)	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Pricing 1,000	Schurter Part No.
Fig. 1 — UMT 250 Series – 10.1mm x 3mm Time Lag							
0.5	35@250VDC	486-1245-ND	.97	.78	.71	—	3403.0163.11
0.8	35@250VDC	486-1246-ND	.97	.78	.71	—	3403.0165.11
1.0	35@250VDC	486-1247-ND	.97	.78	.71	—	3403.0166.11
1.25	35@250VDC	486-1248-ND	.97	.78	.71	—	3403.0167.11
1.6	35@250VDC	486-1249-ND	.97	.78	.71	—	3403.0168.11
2.0	35@250VDC	486-1250-ND	.97	.78	.71	—	3403.0169.11
2.5	35@250VDC	486-1251-ND	.97	.78	.71	—	3403.0170.11
3.15	35@250VDC	486-1252-ND	.97	.78	.71	—	3403.0171.11
4.0	35@250VDC	486-1253-ND	.97	.78	.71	—	3403.0172.11
5.0	100@250VDC	486-1139-ND†	1.07	.86	.78	—	3403.0173.11
6.3	100@250VDC	486-1140-ND†	1.07	.86	.78	—	3403.0174.11
Fig. 2 — USI 1206 Series – 3.2mm x 1.6mm Fast Acting							
0.5	63@63VDC	486-1141-1-ND	.71	.62	.55	273.00	3413.0213.22
0.63	63@63VDC	486-1142-1-ND	.71	.62	.55	273.00	3413.0214.22
0.8	63@63VDC	486-1143-1-ND	.71	.62	.55	273.00	3413.0215.22
1.0	63@63VDC	486-1144-1-ND	.71	.62	.55	273.00	3413.0216.22
1.25	63@63VDC	486-1145-1-ND	.71	.62	.55	273.00	3413.0217.22
1.6	63@63VDC	486-1146-1-ND	.71	.62	.55	273.00	3413.0218.22
2.0	63@63VDC	486-1147-1-ND	.71	.62	.55	273.00	3413.0219.22
2.5	63@63VDC	486-1148-1-ND	.71	.62	.55	273.00	3413.0220.22
3.15	63@63VDC	486-1149-1-ND	.71	.62	.55	273.00	3413.0221.22
4.0	63@63VDC	486-1150-1-ND	.71	.62	.55	273.00	3413.0222.22
5.0	63@63VDC	486-1151-1-ND	.71	.62	.55	273.00	3413.0223.22
6.3	63@63VDC	486-1152-1-ND	.71	.62	.55	273.00	3413.0224.22

† VDE Approval Only ‡ For Tape and Reel part number, change 1-ND to 2-ND.

PCB and Panel Mount Fuseholders

Dim. in mm

Fig. 1

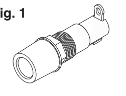

Fig. 2

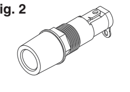

Fig. 3

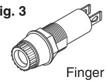

Finger Grip Shown

Fig. 4

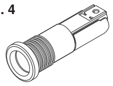

Fig. 5

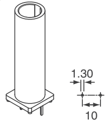

Fig. 6

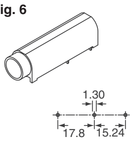

Fig. 7

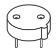

Fig. 8

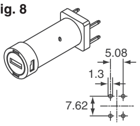

Slot Cap Shown

Fig. 9

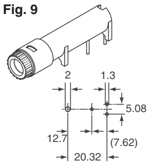

Fig. 10

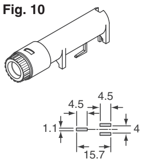

Fig. 11

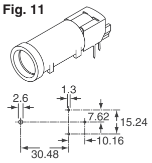

Fig. 12

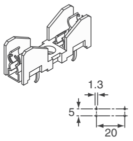

Fig. 13

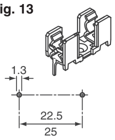

Fig. 14

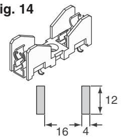

Fig. 15

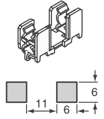

Fig. 16

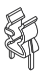

Fig. 17

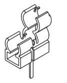

Fig.	Type	Fuse-Link (mm)	Rated Cur-rent (A)	Rated Vol-tage	Digi-Key Part No.	Pricing 1	25	50	Schurter Part No.
Panel Mount Types — IP40 Rating, Solder Terminals									
FEU (Grip) Series									
1	Holder	5x20 or 6.3x32	10	250	486-1167-ND▲	1.63	32.55	58.59	0031.1801
	Holder, Slot Cap	5x20	10	250	486-1168-ND	1.83	36.55	65.79	0031.1811
FEU Series									
2	Holder	5x20 or 6.3x32	10	250	486-1164-ND▲	1.63	32.55	58.59	0031.1653
	Slot Knob Cap	5x20	10	250	486-1165-ND	.90	17.90	32.22	0031.1663
	Slot Knob Cap	6.3x32	10	250	486-1166-ND	.86	17.25	31.05	0031.1666
FPG1, FPG2 and FPG3 Series									
3	Holder, Slot Cap	5x20	10	250	486-1153-ND	2.60	51.95	93.51	3101.0010
	Holder, Finger Grip	5x20	10	250	486-1154-ND	2.60	51.95	93.51	3101.0015
	Holder, Slot Cap	5x20	10	250	486-1155-ND‡	2.60	51.95	93.51	3101.0020
	Holder, Finger Grip	5x20	10	250	486-1156-ND‡	2.60	51.95	93.51	3101.0025
	Holder, Slot Cap	5x20	10	250	486-1157-ND§	2.60	51.95	93.51	3101.0030
	Holder, Finger Grip	5x20	10	250	486-1158-ND	2.60	51.95	93.51	3101.0035
FUL Series									
4	Holder	5x20 or 6.3x32	16	500	486-1254-ND▲	6.26	125.20	225.36	0031.2307
	Slot Knob Cap	5x20	16	500	486-1255-ND	5.66	113.20	203.76	0031.2323
PCB Mount Types — Solder Terminals									
FAC Series — IP40 Rating									
5	Holder	5x20 or 6.3x32	10	250	486-1257-ND▲	1.96	39.25	70.65	0031.3803
FAU Series — IP40 Rating									
6	Holder	5x20 or 6.3x32	10	250	486-1256-ND▲	1.64	32.80	59.04	0031.3573
FMS Series — IP30 Rating									
7	Holder	—	6.3	250	486-1244-ND†▲	.62	12.35	22.23	0031.7601
FPG4 Series									
8	Holder, Slot Cap	5x20	10	250	486-1159-ND	2.60	51.95	93.51	3101.0040
	Holder, Finger Grip	5x20	10	250	486-1160-ND	2.60	51.95	93.51	3101.0045
FPG5 Series									
9	Holder, Slot Cap	5x20	10	250	486-1161-ND	2.60	51.95	93.51	3101.0050
FPG7 Series — SMD Solder Terminals									
10	Holder, Finger Grip	5x20	10	250	486-1162-ND	2.60	51.95	93.51	3101.0075
FUP Series — IP40 Rating									
11	Holder, Slot Cap	5 x 20	16	500	486-1163-ND	11.05	220.90	397.62	0031.2510
OGD Series									
12	Holder	5x20 or 6.3x32	10	500	486-1261-ND	1.18	23.60	42.48	0031.8231
OGN Series									
13	Holder, 22.5mm Spacing	5x20	10	250	486-1258-ND	.57	11.35	20.43	0031.8201
	Holder, 25mm Spacing	5x20	10	250	486-1259-ND	.57	11.35	20.43	0031.8211
Surface Mount Types									
OGD-SMD Series									
14	Holder	5x20 or 6.3x32	10	500	486-1169-ND	1.35	27.05	48.69	0031.8241
OGN-SMD Series									
15	Holder	5x20	10	250	486-1260-ND	.85	17.05	30.69	0031.8221
Fuse Clips									
Straight Terminal Fuse Clips									
16	Brass	5x20	6.3	250	486-1172-ND†	.11	2.10	3.78	0751.0062
	Bronze	5x20	6.3	250	486-1173-ND†	.18	3.55	6.39	0751.0052
Kicked Terminal Fuse Clips									
17	Brass	5x20 or 6.3x32	10	250	486-1170-ND†	.50	10.00	18.00	0751.0100
	Bronze	5x20 or 6.3x32	10	250	486-1171-ND†	.55	10.90	19.62	0751.0099

‡ Rear Panel Mount § Snap-In Type † Not VDE Approved ▲ Cap Required

H

SCHURTER
ELECTRONIC COMPONENTS

MST/MXT 250 Series Time Lag Fuses

Specifications: Size: 8.5mm x 8.5mm • Rated Voltage: 250VAC • Ambient Temperature Range: -55°C ~ 125°C • Housing Material: Thermoplastic, UL94V-0 • Terminal Material: Tin Plated Copper • Breaking Capacity: 35A @ 250VAC

Pre-Arcing Time				
1.5 x In (Min.)	**2.1 x In (Max.)**	**2.75 x In (Max.)**	**4.0 x In (Max.)**	**10.0 x In (Max.)**
60 minutes	120 seconds	10 seconds	3 seconds	150 milliseconds

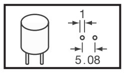

Series	Rated Current (A)	Power Dissipation (mW)	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
MST	0.05	155	486-1459-ND ***NEW!***	1.31	1.05	.94	0034.6602
	0.063	160	486-1460-ND ***NEW!***	1.31	1.05	.94	0034.6603
	0.08	165	486-1461-ND ***NEW!***	1.31	1.05	.94	0034.6604
	0.1	170	486-1462-ND ***NEW!***	.83	.67	.60	0034.6605
	0.125	180	486-1463-ND ***NEW!***	.83	.67	.60	0034.6606
	0.16	190	486-1464-ND ***NEW!***	.83	.67	.60	0034.6607
	0.2	200	486-1465-ND ***NEW!***	.83	.67	.60	0034.6608
	0.25	220	486-1466-ND ***NEW!***	.83	.67	.60	0034.6609
	0.315	250	486-1467-ND ***NEW!***	.83	.67	.60	0034.6610
	0.4	280	486-1468-ND ***NEW!***	.83	.67	.60	0034.6611
	0.5	310	486-1135-ND	.83	.67	.60	0034.6612
	0.63	360	486-1469-ND ***NEW!***	.83	.67	.60	0034.6613
	0.8	430	486-1470-ND ***NEW!***	.83	.67	.60	0034.6614
	1.0	500	486-1136-ND	.83	.67	.60	0034.6615
	1.25	600	486-1471-ND ***NEW!***	.83	.67	.60	0034.6616
	1.6	730	486-1137-ND	.83	.67	.60	0034.6617
	2.0	870	486-1138-ND	.83	.67	.60	0034.6618
	2.5	1000	486-1472-ND ***NEW!***	.83	.67	.60	0034.6619
	3.15	1200	486-1473-ND ***NEW!***	.83	.67	.60	0034.6620
	4	1400	486-1474-ND ***NEW!***	.83	.67	.60	0034.6621
	5	—	486-1475-ND ***NEW!***	.83	.67	.60	0034.6622
	6.3	—	486-1476-ND ***NEW!***	.83	.67	.60	0034.6623
MXT	0.8	430	486-1477-ND ***NEW!***	.99	.79	.72	0034.6914
	1	500	486-1478-ND ***NEW!***	.99	.79	.72	0034.6915
	1.25	600	486-1479-ND ***NEW!***	.99	.79	.72	0034.6916
	1.6	730	486-1414-ND ***NEW!***	.99	.79	.72	0034.6917
	2	870	486-1480-ND ***NEW!***	.99	.79	.72	0034.6918
	2.5	1000	486-1415-ND ***NEW!***	.99	.79	.72	0034.6919
	3.15	1200	486-1481-ND ***NEW!***	.99	.79	.72	0034.6920
	4	1400	486-1482-ND ***NEW!***	.99	.79	.72	0034.6921
	5	—	486-1483-ND ***NEW!***	.99	.79	.72	0034.6922
	6.3	—	486-1484-ND ***NEW!***	.99	.79	.72	0034.6923
	8	—	486-1416-ND ***NEW!***	.99	.79	.72	0034.6924
	10	—	486-1417-ND ***NEW!***	.99	.79	.72	0034.6925

Fast Trip PTC Surface Mount Fuses

Specifications:
- Operating Temperature Range: -40°C ~ 85°C
- Size: 5.4mm x 8.0mm

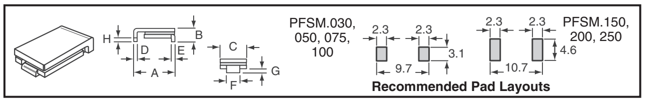

Recommended Pad Layouts

Schurter Part No.	Dimensions Maximum (mm) A	B	C	D	E	F	G	H (Min.)
PFSM.030.2	7.98	3.18	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.050.2	7.98	3.18	5.44	0.71	0.30	2.41	1.37	0.43
PFSM.075.2	7.98	3.18	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.100.2	7.98	3.0	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.150.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43
PFSM.200.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43
PFSM.250.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43

Imax (A)	Vmax (V)	Resistance (Ω) Min.	Resistance (Ω) Max.	Digi-Key Part No.	Pricing 1	25	50	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Schurter Part No.
10	60	1.2	2.4	486-1174-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.030.2
10	60	0.35	0.7	486-1175-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.050.2
40	30	0.35	0.7	486-1176-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.075.2
40	30	0.12	0.24	486-1177-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.100.2
40	15	0.06	0.12	486-1179-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.150.2
40	15	0.05	0.10	486-1180-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.200.2
40	15	0.035	0.08	486-1181-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.250.2

‡ For Tape and Reel part number, change 1-ND to 2-ND.

BULGIN

Fuseholders

Fig. 1

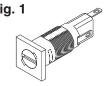

Fig. 2

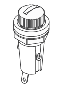

Fig. 3

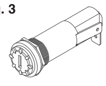

Fig. 4

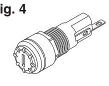

Fig. 5

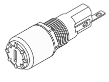

Fig. 6

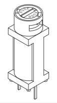

Fig. 7

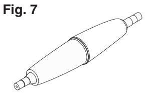

Fig. 8

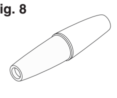

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
	Panel Mount Fuseholders					
1	5x20mm Fuse, Touchproof® PC2, Bayonet Cap	708-1422-ND	2.88	2.65	2.35	FX0359
2	5x20mm Fuse, Touchproof PC1, Screw Cap	708-1423-ND	2.83	2.60	2.31	FX0296
3	6.3x32mm Fuse, Touchproof PC2, IP68, Screw Cap	708-1424-ND	5.79	5.31	4.75	FX0419
4	5x20mm Fuse, Touchproof PC2, IP67, Screw Cap	708-1425-ND	3.25	2.98	2.66	FX0462
5	5x20mm Fuse, Touchproof PC2, IP67, High Profile, Screw Cap	708-1426-ND	3.25	2.98	2.66	FX0463
	PC Mount Fuseholders					
6	5x20mm Fuse, Touchproof PC2, Bayonet Cap	708-1427-ND	3.26	3.00	2.66	FX0456
	In-Line Fuseholders					
7	6.3x32mm Fuse, PC1, IP66	708-1428-ND	4.30	3.95	3.51	FX0185
	5x20mm Fuse, PC1, IP66	708-1430-ND	4.27	3.92	3.49	FX0385
8	5x20mm Fuse, PC1	708-1429-ND	2.72	2.50	2.22	FX0380

Sensata
Technologies

Bimetal Cutoff Thermal Switches

These thin, lightweight, wafer-type AIRPAX® thermal switches are ideal for applications when space is at a premium. The basic switch assembly is operated by a bimetal disc with positive, reinforced snap-action which is known for its repeat reliability. For high humidity and contaminating atmosphere applications, the device is sealed with a non-volatile resin. **Specifications:** • Contact Rating for 100,000 Life Cycles: ***5003 series:*** 5A resistive, 120VAC; 3A resistive, 240VAC; ***5004 series:*** 10A resistive, 240VAC • Contacts: SPST • Temperature Settings: 35°F ~ 325°F • Dielectric: 1500VRMS 60Hz (1 minimum) terminals to case • Exposure Limit: -40°F ~ 350°F • Self Resetting

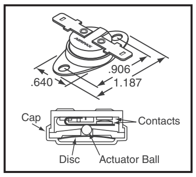

Trip Temperature (°F)	Contact Operation	Switching Current	Digi-Key Part No.	Price Each 1	10	50	Sensata Part No.
AIRPAX® 5003 Series (Designed for 120VAC and 240VAC)							
105	SPST-NO	5A/120VAC	723-1220-ND	12.32	11.66	9.90	C53GAB105A-090Y
125	SPST-NC	5A/120VAC	723-1221-ND	12.32	11.66	9.90	O53GAB125A-110Y
165	SPST-NC	5A/120VAC	723-1222-ND	12.32	11.66	9.90	O53GAB165A-150Y
175	SPST-NC	5A/120VAC	723-1224-ND	12.32	11.66	9.90	O53GAB175A-160Y
190	SPST-NO	5A/120VAC	723-1226-ND	12.32	11.66	9.90	C53GAB190A-175Y
215	SPST-NO	5A/120VAC	723-1223-ND	12.32	11.66	9.90	C53GAB215B-190Y
AIRPAX® 5004 Series (Designed for 240VAC)							
240	SPST-NC	10A/240VAC	723-1227-ND	13.86	13.12	11.14	O54EAB240B-215Y

PCB Mount Thermal Switches

The AIRPAX® 6600 and 6700 series are subminiature bimetallic snap acting thermostats which provide accurate and reliable sensing and switching in a single device. Primarily developed for thermal management applications on power supplies, the AIRPAX® 6600 and 6700 series are also ideally suited for use on crowded PC boards. **Specifications:** • Contact Rating for 30,000 Life Cycles: 1A, 48VDC; 1A, 120VAC • Operating Temperature Range: 6600 Series: 40°C ~ 130°C (104°F ~ 266°F); 6700 Series: 40°C ~ 130°C (104°F ~ 266°F) • Insulation Resistance: 100MΩ at 500VDC • Self Resetting

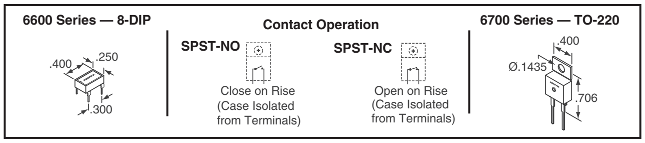

Trip Temperature (°C)	Contact Operation	Digi-Key Part No.	Price Each 1	10	50	Sensata Part No.
6600 Series — 8-DIP						
60	SPST-NO	723-1216-ND	8.78	8.44	7.65	66F060
70	SPST-NC	723-1211-ND	8.78	8.44	7.65	66L070
80	SPST-NC	723-1215-ND	8.78	8.44	7.65	66L080
85	SPST-NC	723-1210-ND	8.78	8.44	7.65	66L085
85	SPST-NO	723-1212-ND	8.78	8.44	7.65	66F085
90	SPST-NC	723-1218-ND	8.78	8.44	7.65	66L090
90	SPST-NO	723-1214-ND	8.78	8.44	7.65	66F090
95	SPST-NC	723-1219-ND	8.78	8.44	7.65	66L095
95	SPST-NO	723-1217-ND	8.78	8.44	7.65	66F095
120	SPST-NO	723-1213-ND	8.78	8.44	7.65	66F120
6700 Series — TO-220						
45	SPST-NO	723-1191-ND	8.78	8.44	7.65	67F045
50	SPST-NC	723-1203-ND	8.78	8.44	7.65	67L050
50	SPST-NO	723-1192-ND	8.78	8.44	7.65	67F050
60	SPST-NC	723-1204-ND	8.78	8.44	7.65	67L060
60	SPST-NO	723-1193-ND	8.78	8.44	7.65	67F060
65	SPST-NC	723-1205-ND	8.78	8.44	7.65	67L065
65	SPST-NO	723-1194-ND	8.78	8.44	7.65	67F065
70	SPST-NC	723-1206-ND	8.78	8.44	7.65	67L070
70	SPST-NO	723-1190-ND	8.78	8.44	7.65	67F070
75	SPST-NC	723-1207-ND	8.78	8.44	7.65	67L075
75	SPST-NO	723-1195-ND	8.78	8.44	7.65	67F075
80	SPST-NC	723-1187-ND	8.78	8.44	7.65	67L080
80	SPST-NO	723-1189-ND	8.78	8.44	7.65	67F080
85	SPST-NC	723-1188-ND	8.78	8.44	7.65	67L085
85	SPST-NO	723-1196-ND	8.78	8.44	7.65	67F085
90	SPST-NC	723-1186-ND	8.78	8.44	7.65	67L090
90	SPST-NO	723-1182-ND	8.78	8.44	7.65	67F090
90	SPST-NO	723-1197-ND†	8.78	8.44	7.65	67F090P
95	SPST-NC	723-1208-ND	8.78	8.44	7.65	67L095
95	SPST-NO	723-1185-ND	8.78	8.44	7.65	67F095
95	SPST-NO	723-1198-ND†	9.75	9.38	8.50	67F095P
100	SPST-NC	723-1184-ND	8.78	8.44	7.65	67L100
100	SPST-NO	723-1181-ND	8.78	8.44	7.65	67F100
105	SPST-NO	723-1179-ND	8.78	8.44	7.65	67F105
110	SPST-NC	723-1183-ND	5.85	5.63	5.10	67L110
110	SPST-NO	723-1180-ND	8.78	8.44	7.65	67F110
110	SPST-NO	723-1199-ND†	8.78	8.44	7.65	67F110P
115	SPST-NO	723-1200-ND	8.78	8.44	7.65	67F115
120	SPST-NC	723-1209-ND	8.78	8.44	7.65	67L120
120	SPST-NO	723-1201-ND	8.78	8.44	7.65	67F120
130	SPST-NO	723-1202-ND	8.78	8.44	7.65	67F130

† With plastic mounting bracket, for applications requiring VDE.

CANTHERM

Encapsulated Thermal Switches

Encapsulated Thermal Switches are ideal for sensing the temperature of a surface or of stagnant air in an enclosure. Available with PC pins or with flexible wire leads for remote installation. Their high temperature resistance and high dielectric strength make it ideal for protecting heatsink-mounted semiconductors. Other applications would be protecting power supplies, or simply turning on a fan at a desired temperature.

Current Sensitivity: The thermal switches are not current sensitive at rated currents. At loads above the rated values, up to maximum loading there is self-heating of the current carrying contacts.

Insulation Resistance: Leads to Earth: 2500V @ 25°C, 1500V @ 100°C. Across open contacts, dependent on response temperature: 500V eff. AC.

Marking: Response temperature in clear text (5°C steps). Normally Closed = blue or black (epoxy); Normally Open = red (epoxy)

UL E46827 CSA LR28044-10 VDE 4523-4510-0702/329CU

Leaded Dim. in inches (mm)

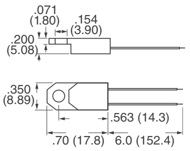

PC Pins

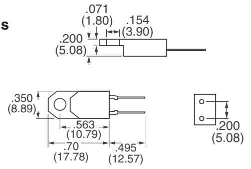

Electrical Specifications

Type	N/C	N/O
Voltage Rating 50 ~ 60 Hz	120 V / 250 V	120 V / 250 V
Current Rating Resistive	3.0 A / 2.0 A	1 A / 1 A*
Current Rating Inductive	1.8 A / 1.2 A	1 A / 1 A
Max. Load Resistive	4.0 A	4.0 A
Short Circuit Current Up to	6.3 A	6.3 A
Contact Arrangement Normally Closed N/C - Normally Open N/O	–○–○–	–○╲○–
Contact Resistance	< 40 mΩ	< 40 mΩ
Response Temperature Range	70°C ~ 160° C	65°C ~ 150°C
Tolerance Range	±5°C	±5°C
Max. Permanent Temperature of Housing - G410	220°C	220°C
Housing Material - G410	PPS	PPS
Thermal Conductivity	4.0 BTU - in. / hr. / ft2 / °F	

* When N/O contacts are closed, self heating will occur at currents exceeding normal rating. It is possible that, given certain combinations of set temperature current and ambient temperature, the contacts will not reset.

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Thermal Switches With Leads						
Normally Closed						
70	317-1000-ND	6.56	5.74	4.10	3.28	F20A07005ACFA06E
75	317-1001-ND	6.56	5.74	4.10	3.28	F20A07505ACFA06E
80	317-1002-ND	6.56	5.74	4.10	3.28	F20A08005ACFA06E
85	317-1003-ND	6.56	5.74	4.10	3.28	F20A08505ACFA06E
90	317-1004-ND	6.56	5.74	4.10	3.28	F20A09005ACFA06E
95	317-1005-ND	6.56	5.74	4.10	3.28	F20A09505ACFA06E
100	317-1006-ND	6.56	5.74	4.10	3.28	F20A10005ACFA06E
105	317-1007-ND	6.56	5.74	4.10	3.28	F20A10505ACFA06E
110	317-1008-ND	6.56	5.74	4.10	3.28	F20A11005ACFA06E
115	317-1009-ND	6.56	5.74	4.10	3.28	F1111525ACFA06E
120	317-1010-ND	6.56	5.74	4.10	3.28	F20A12005ACFA06E
125	317-1011-ND	6.56	5.74	4.10	3.28	F20A12505ACFA06E
130	317-1012-ND	6.56	5.74	4.10	3.28	F20A13005ACFA06E
135	317-1013-ND	6.56	5.74	4.10	3.28	F20A13505ACFA06E
140	317-1014-ND	6.56	5.74	4.10	3.28	F20A14005ACFA06E
145	317-1015-ND	6.56	5.74	4.10	3.28	F20A14505ACFA06E
150	317-1016-ND	6.56	5.74	4.10	3.28	F20A15005ACFA06E
155	317-1017-ND	6.56	5.74	4.10	3.28	F20A15505ACFA06E
160	317-1018-ND	6.56	5.74	4.10	3.28	F20A16005ACFA06E
Normally Open						
70	317-1019-ND	8.52	7.46	5.33	4.26	F1107015ACFA06E
75	317-1020-ND	8.52	7.46	5.33	4.26	F1107515ACFA06E
80	317-1021-ND	8.52	7.46	5.33	4.26	F1108015ACFA06E
85	317-1022-ND	8.52	7.46	5.33	4.26	F1108515ACFA06E
90	317-1023-ND	8.52	7.46	5.33	4.26	F1109015ACFA06E
95	317-1024-ND	8.52	7.46	5.33	4.26	F1109515ACFA06E
100	317-1025-ND	8.52	7.46	5.33	4.26	F1110015ACFA06E
105	317-1026-ND	8.52	7.46	5.33	4.26	F1110515ACFA06E
110	317-1027-ND	8.52	7.46	5.33	4.26	F1111015ACFA06E
120	317-1029-ND	8.52	7.46	5.33	4.26	F1112015ACFA06E
130	317-1031-ND	8.52	7.46	5.33	4.26	F1113015ACFA06E
135	317-1032-ND	8.52	7.46	5.33	4.26	F1113515ACFA06E
145	317-1034-ND	8.52	7.46	5.33	4.26	F1114515ACFA06E
150	317-1035-ND	8.52	7.46	5.33	4.26	F1115015ACFA06E
Thermal Switches With PC Pins						
Normally Closed						
120	317-1048-ND	6.56	5.74	4.10	3.28	F11120251ZA0060
135	317-1051-ND	6.56	5.74	4.10	3.28	F11135251ZA0060
140	317-1052-ND	6.56	5.74	4.10	3.28	F11140251ZA0060
145	317-1053-ND	6.56	5.74	4.10	3.28	F11145251ZA0060
150	317-1054-ND	6.56	5.74	4.10	3.28	F11150251ZA0060
155	317-1055-ND	6.56	5.74	4.10	3.28	F11155251ZA0060
160	317-1056-ND	6.56	5.74	4.10	3.28	F11160251ZA0060
70	317-1321-ND	6.56	5.74	4.10	3.28	F11070253600060
75	317-1322-ND	6.56	5.74	4.10	3.28	F11075253600060
80	317-1323-ND	6.56	5.74	4.10	3.28	F11080253600060
85	317-1324-ND	6.56	5.74	4.10	3.28	F11085253600060
90	317-1325-ND	6.56	5.74	4.10	3.28	F11090253600060
95	317-1326-ND	6.56	5.74	4.10	3.28	F11095253600060
100	317-1318-ND	6.56	5.74	4.10	3.28	F11100253600060
105	317-1319-ND	6.56	5.74	4.10	3.28	F11105253600060
110	317-1327-ND	6.56	5.74	4.10	3.28	F11110253600060
115	317-1328-ND	6.56	5.74	4.10	3.28	F11115253600060
120	317-1329-ND	6.56	5.74	4.10	3.28	F11120253600060
125	317-1330-ND	6.56	5.74	4.10	3.28	F11125253600060
130	317-1331-ND	6.56	5.74	4.10	3.28	F11130253600060
135	317-1332-ND	6.56	5.74	4.10	3.28	F11135253600060
Normally Open						
125	317-1068-ND	8.52	7.46	5.33	4.26	F11125151ZA0060
130	317-1069-ND	8.52	7.46	5.33	4.26	F11130151ZA0060
135	317-1070-ND	8.52	7.46	5.33	4.26	F11135151ZA0060
140	317-1071-ND	8.52	7.46	5.33	4.26	F11140151ZA0060
145	317-1072-ND	8.52	7.46	5.33	4.26	F11145151ZA0060
150	317-1073-ND	8.52	7.46	5.33	4.26	F11150151ZA0060
155	317-1074-ND	8.52	7.46	5.33	4.26	F11155151ZA0060
160	317-1075-ND	8.52	7.46	5.33	4.26	F11160151ZA0060
95	317-1320-ND	8.52	7.46	5.33	4.26	F11095153600060
85	317-1342-ND	8.52	7.46	5.33	4.26	F11085153600060
90	317-1343-ND	8.52	7.46	5.33	4.26	F11090153600060
100	317-1344-ND	8.52	7.46	5.33	4.26	F11100153600060
105	317-1345-ND	8.52	7.46	5.33	4.26	F11105153600060
110	317-1346-ND	8.52	7.46	5.33	4.26	F11110153600060
115	317-1347-ND	8.52	7.46	5.33	4.26	F11115153600060
120	317-1348-ND	8.52	7.46	5.33	4.26	F11120153600060
125	317-1349-ND	8.52	7.46	5.33	4.26	F11125153600060

Bi-metal Cutouts / Temperature Regulators

The thermal response works a bimetal snap element electrically connected to the switch contact. The switch system is current insensitive. The thermal switches react only to external thermal effects. Double contacts ensure high switch performance and long service life. The housing, base, and the mounting brackets are voltage-free (Standard version: base and mounting brackets are aluminum-plated steel). Heat transfer occurs directly through the metallic base via convection, radiation and conduction in gaseous and solid media. The mounting flange is floating and can be rotated to any desired position with respect to the electrical terminals.

Please note: Reset temperature will be between 5°C ~ 50°C below the standard response temperature.

ADVANTAGES:

• High pressure resistance • High response sensitivity • Numerous applications • Various housings, connections and mounting styles

UL E48909 CSA LR85477-1 VDE 0631

Fig. 1

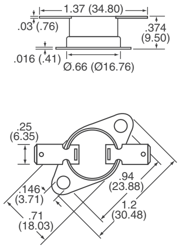

Fig. 2 Dim. in inches (mm)

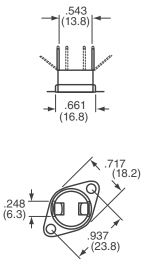

Electrical Specifications

Voltage Rating 50-60Hz	120V / 250V
Current Rating Resistive	15A / 10.0A
Current Rating Inductive	6.3A
Maximum Load Resistive	20A / 16A
Contact Resistance	< 50mΩ
Nominal Temperature Range	0°C ~ 170°C
Tolerance Range	±5°C
Maximum Permanent Temperature	175°C
Housing Material	Duroplast
Overall Height (mm)	9.5 (+0.2)
Contacts: Normally Closed –○–○–	Normally Open –○╲○–

Fig.	Switch Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Normally Closed							
1	20	317-1367-ND	8.40	7.35	5.25	4.20	R2002025
	35	317-1078-ND	8.80	7.70	5.50	4.40	R2003525
	95	317-1089-ND	6.92	6.06	4.33	3.46	R2009525
	100	317-1090-ND	6.92	6.06	4.33	3.46	R2010025
	150	317-1468-ND	6.60	5.78	4.13	3.30	R2015025
	15	317-1491-ND ***NEW!***	7.92	6.93	4.95	3.96	CS701525Y
	20	317-1495-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702025Y
	30	317-1499-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703025Y
	35	317-1503-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703525Y
	40	317-1507-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704025Y
	45	317-1509-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704525Y
	50	317-1513-ND ***NEW!***	7.92	6.93	4.95	3.96	CS705025Y
	60	317-1517-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706025Y
	65	317-1519-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706525Y
	70	317-1523-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707025Y
	75	317-1525-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707525Y
	80	317-1529-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708025Y
	85	317-1531-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708525Y
	90	317-1535-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709025Y
	95	317-1537-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709525Y
1	100	317-1541-ND ***NEW!***	7.92	6.93	4.95	3.96	CS710025Y
	115	317-1545-ND ***NEW!***	7.92	6.93	4.95	3.96	CS711525Y
	120	317-1547-ND ***NEW!***	7.92	6.93	4.95	3.96	CS712025Y
	130	317-1550-ND ***NEW!***	7.92	6.93	4.95	3.96	CS713025Y
	150	317-1552-ND ***NEW!***	7.92	6.93	4.95	3.96	CS715025Y
2	20	317-1412-ND	8.40	7.35	5.25	4.20	R2002025A119
	25	317-1413-ND	8.40	7.35	5.25	4.20	R2002525A119
	30	317-1414-ND	8.40	7.35	5.25	4.20	R2003025A119
	35	317-1415-ND	8.40	7.35	5.25	4.20	R2003525A119
	65	317-1420-ND	6.60	5.78	4.13	3.30	R2006525A119
	70	317-1421-ND	6.60	5.78	4.13	3.30	R2007025A119
	80	317-1423-ND	6.60	5.78	4.13	3.30	R2008025A119
	90	317-1425-ND	6.60	5.78	4.13	3.30	R2009025A119
	95	317-1426-ND	6.60	5.78	4.13	3.30	R2009525A119
	100	317-1427-ND	6.60	5.78	4.13	3.30	R2010025A119
	110	317-1429-ND	6.60	5.78	4.13	3.30	R2011025A119
	115	317-1430-ND	6.60	5.78	4.13	3.30	R2011525A119
	120	317-1431-ND	6.60	5.78	4.13	3.30	R2012025A119
	125	317-1432-ND	6.60	5.78	4.13	3.30	R2012525A119
	130	317-1469-ND	6.60	5.78	4.13	3.30	R2013025A119

(Continued)

Bi-metal Cutouts / Temperature Regulators *(Cont.)*

Fig.	Switch Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
2	150	317-1433-ND	6.60	5.78	4.13	3.30	R2015025A119
	15	317-1492-ND ***NEW!***	7.92	6.93	4.95	3.96	CS701525Z
	20	317-1496-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702025Z
	25	317-1498-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702525Z
	30	317-1500-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703025Z
	35	317-1504-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703525Z
	40	317-1508-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704025Z
	45	317-1510-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704525Z
	50	317-1514-ND ***NEW!***	7.92	6.93	4.95	3.96	CS705025Z
	60	317-1518-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706025Z
	65	317-1520-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706525Z
	70	317-1524-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707025Z
	75	317-1526-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707525Z
	80	317-1530-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708025Z
	85	317-1532-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708525Z
	90	317-1536-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709025Z
	95	317-1538-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709525Z
	100	317-1542-ND ***NEW!***	7.92	6.93	4.95	3.96	CS710025Z
	105	317-1543-ND ***NEW!***	7.92	6.93	4.95	3.96	CS710525Z
	110	317-1544-ND ***NEW!***	7.92	6.93	4.95	3.96	CS711025Z
	115	317-1546-ND ***NEW!***	7.92	6.93	4.95	3.96	CS711525Z
	120	317-1548-ND ***NEW!***	7.92	6.93	4.95	3.96	CS712025Z
	125	317-1549-ND ***NEW!***	7.92	6.93	4.95	3.96	CS712525Z
	130	317-1551-ND ***NEW!***	7.92	6.93	4.95	3.96	CS713025Z
	150	317-1553-ND ***NEW!***	7.92	6.93	4.95	3.96	CS715025Z
		Normally Open					
1	20	317-1366-ND	8.40	7.35	5.25	4.20	R2002015
	35	317-1092-ND	8.80	7.70	5.50	4.40	R2003515
	50	317-1094-ND	6.92	6.06	4.33	3.46	R2005015
	80	317-1096-ND	6.92	6.06	4.33	3.46	R2008015
	100	317-1097-ND	6.92	6.06	4.33	3.46	R2010015
	70	317-1409-ND	8.40	7.35	5.25	4.20	R2007015

Fig.	Switch Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
1	90	317-1410-ND	8.40	7.35	5.25	4.20	R2009015
	15	317-1489-ND ***NEW!***	7.92	6.93	4.95	3.96	CS701515Y
	20	317-1493-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702015Y
	35	317-1501-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703515Y
	40	317-1505-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704015Y
	50	317-1511-ND ***NEW!***	7.92	6.93	4.95	3.96	CS705015Y
	60	317-1515-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706015Y
	70	317-1521-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707015Y
	80	317-1527-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708015Y
	90	317-1533-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709015Y
	100	317-1539-ND ***NEW!***	7.92	6.93	4.95	3.96	CS710015Y
2	15	317-1434-ND	8.40	7.35	5.25	4.20	R2001515A119
	20	317-1435-ND	8.40	7.35	5.25	4.20	R2002015A119
	25	317-1436-ND	8.40	7.35	5.25	4.20	R2002515A119
	70	317-1441-ND	6.60	5.78	4.13	3.30	R2007015A119
	80	317-1442-ND	6.60	5.78	4.13	3.30	R2008015A119
	90	317-1443-ND	6.60	5.78	4.13	3.30	R2009015A119
	100	317-1444-ND	6.60	5.78	4.13	3.30	R2010015A119
	15	317-1490-ND ***NEW!***	7.92	6.93	4.95	3.96	CS701515Z
	20	317-1494-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702015Z
	25	317-1497-ND ***NEW!***	7.92	6.93	4.95	3.96	CS702515Z
	35	317-1502-ND ***NEW!***	7.92	6.93	4.95	3.96	CS703515Z
	40	317-1506-ND ***NEW!***	7.92	6.93	4.95	3.96	CS704015Z
	50	317-1512-ND ***NEW!***	7.92	6.93	4.95	3.96	CS705015Z
	60	317-1516-ND ***NEW!***	7.92	6.93	4.95	3.96	CS706015Z
	70	317-1522-ND ***NEW!***	7.92	6.93	4.95	3.96	CS707015Z
	80	317-1528-ND ***NEW!***	7.92	6.93	4.95	3.96	CS708015Z
	90	317-1534-ND ***NEW!***	7.92	6.93	4.95	3.96	CS709015Z
	100	317-1540-ND ***NEW!***	7.92	6.93	4.95	3.96	CS710015Z

Control Thermostats

These thermostats were developed as a small, inexpensive, high performance bimetal thermostat which can be used as a controller. These thermostats use a sharp semipermanent, snap spring with a flat non-distorting bimetal.

ADVANTAGES:

• High precision • Snap action • Narrow differential • Water resistant • Extreme long life

APPLICATIONS:

• Heating appliance • Water bed heaters • Blanket heaters • Antifreeze sensors • Medical applications

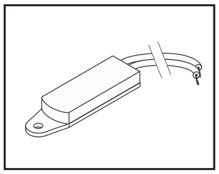

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
	Normally Closed					
15	317-1389-ND	94.00	82.25	58.75	47.00	MQT8K015XB
20	317-1388-ND	94.00	82.25	58.75	47.00	MQT8K020XB
37	317-1390-ND	94.00	82.25	58.75	47.00	MQT8K037XB
	Normally Open					
0	317-1386-ND	94.00	82.25	58.75	47.00	MQT8K000XBARB
5	317-1387-ND	94.00	82.25	58.75	47.00	MQT8K005XBARB
20	317-1393-ND	94.00	82.25	58.75	47.00	MQT8K020YB
25	317-1391-ND	94.00	82.25	58.75	47.00	MQT8K025YB
35	317-1392-ND	94.00	82.25	58.75	47.00	MQT8K035YB

TS3 Series Moxie® Thermal Sensors

Moxies are variable resistance NTC thermal sensors having a highly specific "transition region". Within this transition region the devices exhibit a coefficient from -40%/°C ~ -200%/°C. Below the transition region they exhibit a linear "thermistor" characteristic of -2%/°C ~ -4%/°C.

Technical Data: • Maximum Allowable Operating Temperature: 120°C • Minimum Allowable Operating Temperature: -40°C • Maximum Allowable Operating Voltage @ 25°C: 125VAC • Maximum Allowable Operating Power (Any Temperature): Normal use less or equal to 0.5mWatt • Insulation Strength (Between Leads and Cap): 600VDC • Conductors: Gold plated leads

Note: Please see data sheet for additional electrical characteristics.

TYPICAL RESPONSE CHARACTERISTICS

Temp. Coefficient (%/°C)	TS3-57	TS3-65	TS3-75	TS3-85
Pre-Transition	-2.0	-4.0	-3.5	-3.0
Transition	-100	-200	-70	-40
Post-Transition	-0.25	-0.5	-1.0	-1.5

Fig.	Switching Temperature	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
1	57°C	317-1098-ND	7.48	6.55	4.68	TS3-57
2	57°C	317-1099-ND	8.24	7.21	5.15	TS3-57B3
3	57°C	317-1100-ND	8.24	7.21	5.15	TS3-57C3
1	65°C	317-1101-ND	7.48	6.55	4.68	TS3-65
2	65°C	317-1102-ND	8.24	7.21	5.15	TS3-65B3
3	65°C	317-1103-ND	8.24	7.21	5.15	TS3-65C3
1	75°C	317-1104-ND	7.48	6.55	4.68	TS3-75
2	75°C	317-1105-ND	8.24	7.21	5.15	TS3-75B3
3	75°C	317-1106-ND	8.24	7.21	5.15	TS3-75C3
1	85°C	317-1107-ND	7.48	6.55	4.68	TS3-85
2	85°C	317-1108-ND	8.24	7.21	5.15	TS3-85B3
3	85°C	317-1109-ND	8.24	7.21	5.15	TS3-85C3

Dimensions in Inches

Fig. 1

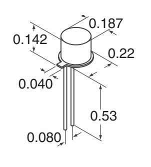

TO-18 Package

Fig. 2

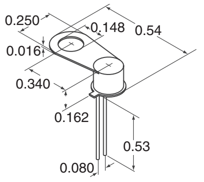

Fig. 3

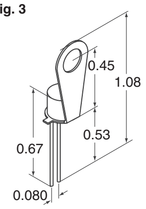

YGM Series PTC Thermistors

PTC thermistors act as thermal protection for electrical machines, and are well known particularly as motor-protectors. PTC thermistors have a non-linear resistance/temperature response, and at a specified temperature the resistance changes rapidly to a very high value.

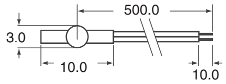

Dimensions in mm

Technical Data:

- **Maximum Allowable Operating Temperature:** 200°C
- **Maximum Allowable Operating Voltage at 25°C:** U maximum 25V
- **Maximum Allowable Power Dissipation at 25°C:** 690mW
- **Insulation strength (between leads and outer insulation) also for threaded sensor:** 2.5kV

Response Temperature	Wire Color Code	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
80°C	White - White	317-1110-ND	6.68	5.85	4.18	YGM1-C508
90°C	Green - Green	317-1111-ND	6.68	5.85	4.18	YGM1-C509
110°C	Brown - Brown	317-1113-ND	6.68	5.85	4.18	YGM1-C511
120°C	Grey - Grey	317-1114-ND	6.68	5.85	4.18	YGM1-C512
170°C	White - Green	317-1121-ND	6.68	5.85	4.18	YGM1-C517
180°C	Red - White	317-1122-ND	6.68	5.85	4.18	YGM1-C518

Thermal Fuses

Description:

Thermal fuses are components which will automatically open a circuit and switch off an appliance, if the permissible operating temperature of the appliance is exceeded.

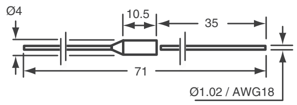

Dimensions in mm

Temperature T_F	Temperature T_H	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
77°C	55°C	317-1125-ND	.98	.86	.62	SDJ1-DF077S
84°C	60°C	317-1126-ND	.98	.86	.62	SDJ1-DF084S
91°C	67°C	317-1127-ND	.98	.86	.62	SDJ1-DF091S
98°C	76°C	317-1128-ND	.98	.86	.62	SDJ1-DF098S
100°C	78°C	317-1129-ND	.98	.86	.62	SDJ1-DF100S
104°C	80°C	317-1130-ND	.98	.86	.62	SDJ1-DF104S
119°C	95°C	317-1132-ND	.98	.86	.62	SDJ1-DF119S
128°C	106°C	317-1133-ND	.98	.86	.62	SDJ1-DF128S
141°C	117°C	317-1134-ND	.98	.86	.62	SDJ1-DF141S
144°C	120°C	317-1135-ND	.98	.86	.62	SDJ1-DF144S
152°C	128°C	317-1136-ND	.98	.86	.62	SDJ1-DF152S
192°C	162°C	317-1139-ND	.98	.86	.62	SDJ1-DF192S
240°C	200°C	317-1142-ND	.98	.86	.62	SDJ1-DF240S

T_F = Functioning Temperature T_H = Holding Temperature

Thermal Protectors

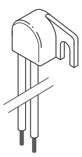

Switching Temperature	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
Normally Closed					
60°C	317-1395-ND	7.24	6.34	4.53	B1206025AEDA0GE
70°C	317-1396-ND	7.24	6.34	4.53	B1207025AEDA0GE
75°C	317-1397-ND	7.24	6.34	4.53	B1207525AEDA0GE
85°C	317-1398-ND	7.24	6.34	4.53	B1208525AEDA0GE
95°C	317-1399-ND	7.24	6.34	4.53	B1209525AEDA0GE
105°C	317-1400-ND	7.24	6.34	4.53	B1210525AEDA0GE
115°C	317-1401-ND	7.24	6.34	4.53	B1211525AEDA0GE
125°C	317-1402-ND	7.24	6.34	4.53	B1212525AEDA0GE
135°C	317-1403-ND	7.24	6.34	4.53	B1213525AEDA0GE
150°C	317-1404-ND	7.24	6.34	4.53	B1215025AEDA0GE
160°C	317-1405-ND	7.24	6.34	4.53	B1216025AEDA0GE
Normally Open					
60°C	317-1447-ND	8.96	7.84	5.60	B1206015AEDA0GE
65°C	317-1448-ND	8.96	7.84	5.60	B1206515AEDA0GE
70°C	317-1449-ND	8.96	7.84	5.60	B1207015AEDA0GE
75°C	317-1450-ND	8.96	7.84	5.60	B1207515AEDA0GE
80°C	317-1451-ND	8.96	7.84	5.60	B1208015AEDA0GE
85°C	317-1452-ND	8.96	7.84	5.60	B1208515AEDA0GE
90°C	317-1453-ND	8.96	7.84	5.60	B1209015AEDA0GE
95°C	317-1454-ND	8.96	7.84	5.60	B1209515AEDA0GE
100°C	317-1455-ND	8.96	7.84	5.60	B1210015AEDA0GE
105°C	317-1456-ND	8.96	7.84	5.60	B1210515AEDA0GE
110°C	317-1457-ND	8.96	7.84	5.60	B1211015AEDA0GE
115°C	317-1458-ND	8.96	7.84	5.60	B1211515AEDA0GE
120°C	317-1459-ND	8.96	7.84	5.60	B1212015AEDA0GE
125°C	317-1460-ND	8.96	7.84	5.60	B1212515AEDA0GE
130°C	317-1461-ND	8.96	7.84	5.60	B1213015AEDA0GE
135°C	317-1462-ND	8.96	7.84	5.60	B1213515AEDA0GE
140°C	317-1463-ND	8.96	7.84	5.60	B1214015AEDA0GE
145°C	317-1464-ND	8.96	7.84	5.60	B1214515AEDA0GE
150°C	317-1465-ND	8.96	7.84	5.60	B1215015AEDA0GE
155°C	317-1466-ND	8.96	7.84	5.60	B1215515AEDA0GE
160°C	317-1467-ND	8.96	7.84	5.60	B1216015AEDA0GE

Panasonic® Thermal Cutoffs (TCO) / Thermal-Links — EYP Type

Features: • **Small and Insulation Type:** TCO is compact and insulated, featuring quick temperature response, and mountable in a small space without insulation or protection • **High Reliability:** TCO opens reliably when the equipment becomes abnormal, and is not resettable • **Solid Structure:** Unique formed lead provides reliable TCO connection and provides easy assembly handling. (Axial lead type only) • **Non-Cadmium Alloy:** TCO uses specially selected non-cadmium alloy • **Thin Type:** Thickness is less than 1mm. Available for spot welding.

Recommended Applications:
Transformers, solenoids, ventilation fan, electric fans, small electric motors, dryers, gas home appliances, fluorescent lights, electric shavers, adaptors, heating devices, ICs, batteries, etc. The TCO can be used for overheating protection.

Approved Safety Standards:
▽ (Japan): 33-xxx (see chart)
UL (USA): E60271
CSA (Canada): LR67163
VDE (Germany): N Series: 4811.6-1171-0001; F Series: 4811.6-4510-1026; E Series: 4811.6-4510-1030
BEAB (U.K.): N Series: C0736; F Series: C0738; E Series: C0739

Series N, F and E — Axial Lead Type

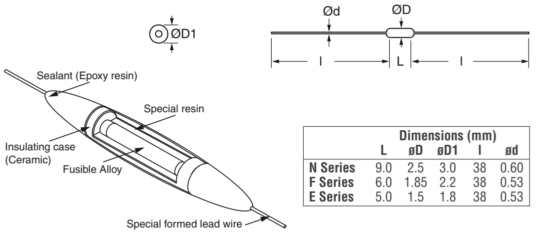

Dimensions (mm)	L	øD	øD1	l	ød
N Series	9.0	2.5	3.0	38	0.60
F Series	6.0	1.85	2.2	38	0.53
E Series	5.0	1.5	1.8	38	0.53

Series MT — Thin Type

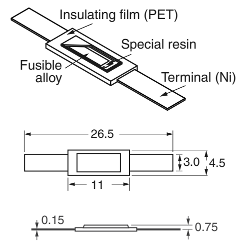

Type No. of Approved Standards	Rated Functioning Temp.[1] (°C)	Function-ing Temp.[2] (°C)	Maximum Operating Temp.[3] (°C)	Holding Temp.[4] (°C)	Maximum Temp. (°C)[5]		Electrical Rating			Approved Safety Standards					Digi-Key Part No.	Price Each			Panasonic Part No.
					UL, VDE, BEAB	CSA	AC/ DC	Amp (A)	Volt (V)	▽	UL	CSA	VDE	BEAB		1	10	100	
N Series — RoHS Compliant																			
N082	86	82±2	52 60 45	56 60 50	200	150	AC AC DC	3.0 2.0 4.0	125 250 50	33-627	○ ○ ○	○ ○ ○	○ ○ ○	— ○ —	P10917-ND	.76	.45	.31	EYP-2BN082
N109	114	110±3	76 80 65	86 90 74	200	150	AC AC DC	3.0 2.0 5.0	125 250 50	33-634	○ ○ ○	○ ○ ○	○ ○ ○	— ○ —	P10920-ND	.76	.45	.31	EYP-2BN109
N110	115	110 +3/-2	76 80 65	86 90 74	200	150	AC AC DC	3.0 2.0 5.0	125 250 50	33-634	○ ○ ○	○ ○ ○	○ ○ ○	— — —	P10921-ND	.76	.45	.31	EYP-2BN110
N143	145	141±2	105 110 80	115 120 90	200	180	AC AC DC	3.0 2.0 6.0	125 250 50	33-621	○ ○ ○	○ ○ ○	○ ○ ○	— ○ —	P10925-ND	.76	.45	.31	EYP-2BN143
F Series																			
F115	115	110 +3/-2	76 80 70	90 90 80	200	150	AC AC DC	2.0 1.0 4.0	125 250 50	33-634	○ ○ ○	○ ○ ○	○ ○ ○	— ○ —	P10912-ND◆	.76	.45	.31	EYP-1BF115
E Series																			
E115	115	110±2	76 80 70	93 95 84	200	150	AC AC DC	1.5 0.5 3.0	125 250 50	33-634	○ ○ ○	○ ○ ○	○ ○ ○	— ○ —	P10907-ND◆	.76	.45	.31	EYP-05BE115
MT Series †																			
MT102	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10934-ND	1.03	.64	.47	EYP-2MT102
MT102A	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10935-ND	1.03	.64	.47	EYP-2MT102A
MT102B	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10936-ND	1.03	.64	.47	EYP-2MT102B

† Std. DC Resistance is <15mΩ, A = <16mΩ, B = <17mΩ ◆ ***RoHS Compliant***

NOTES:

1. **Rated Functioning Temperature** (UL: TF, CSA, VDE, BEAB: Tf). The temperature at which a TCO changes its state of conductivity to open circuit with loading detection current only. Tolerance: ▽ : ±7°C; UL, CSA, VDE, BEAB: 0 / -10°C
2. **Functioning Temperature**: (Fusing-off temperature): The functioning temperature at which a TCO changes its state of conductivity to open circuit in the ambient air oven which increases temperature by 1°C per minute and with loading detection current of 0.1A or less.
3. **Maximum Operating Temperature:** The maximum temperature at which a TCO can be maintained while conducting rated current for 3000 h.
4. **Holding Temperature** (UL: TH, CSA: Th, VDE, BEAB: Tc). The maximum temperature at which a TCO can be maintained while conducting rated current for 168h which will not cause a change in state of conductivity to open circuit.
5. **Maximum Temperature Limit** (UL: TM, CSA, VDE, BEAB: Tm) The maximum temperature at which a TCO can maintain its mechanical and electrical properties without closing again for 10 minutes after a TCO has changed its state of conductivity.

Honeywell
Sensing and Control

Thermal Switches

RoHS COMPLIANT

The 3600 Series consists of a single pole, single throw, bimetal snap-action switch available to open or close on temperature rise. These hermatically-sealed products have gold contacts for logic level switching. They have no power budget and are wave solderable.

Specifications:
- Reset Type: Automatic
- Operating Temperature Range: 40°C ~ 120°C
- Housing Material: Metal T0-5 package

The 3455RC Series thermostats are often suitable for applications such as copy machines, power supplies, telecommunications and ovens.

Specifications:
- Operating Temperature Range: 0°C ~ 260°C
- Dielectric Strength: MIL-STD-202, Method 301; 2000Vac 60 Hz - Terminal to Case

3600 Series

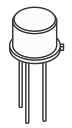

3455RC Series

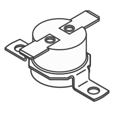

Switching Temp. (°C)	Contact Operation	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
3600 TO-5 Series						
50	SPST-NC	480-3221-ND	41.97	33.39	31.29	3600 050010001
60	SPST-NC	480-3222-ND	41.97	33.39	31.29	3600 060010001
65	SPST-NC	480-3223-ND	42.81	34.06	31.91	3600 065010001
70	SPST-NC	480-3224-ND	41.97	33.39	31.29	3600 070010001
85	SPST-NC	480-3225-ND	41.97	33.39	31.29	3600 085010001
90	SPST-NC	480-3226-ND	42.81	34.06	31.91	3600 090010001
100	SPST-NC	480-3227-ND	41.97	33.39	31.29	3600 100010001
3601 TO-5 Series						
40	SPST-NO	480-3228-ND	41.97	33.39	31.29	3601-040010001
45	SPST-NO	480-3229-ND	41.97	33.39	31.29	3601-045010001
50	SPST-NO	480-3230-ND	41.97	33.39	31.29	3601-050010001
3455RC Series						
29.4	SPST-NC	480-3231-ND	25.59	20.36	19.07	3455RC 01000222
35	SPST-NC	480-3232-ND	25.59	20.36	19.07	3455RC 01000223
40.6	SPST-NC	480-3233-ND	25.59	20.36	19.07	3455RC 01000224
46.1	SPST-NC	480-3234-ND	25.59	20.36	19.07	3455RC 01000225
51.7	SPST-NC	480-3235-ND	25.59	20.36	19.07	3455RC 01000226
57.2	SPST-NC	480-3236-ND	25.59	20.36	19.07	3455RC 01000227
62.8	SPST-NC	480-3237-ND	25.59	20.36	19.07	3455RC 01000228
68.3	SPST-NC	480-3238-ND	25.59	20.36	19.07	3455RC 01000229
73.9	SPST-NC	480-3239-ND	25.59	20.36	19.07	3455RC 01000230
79.4	SPST-NC	480-3240-ND	25.59	20.36	19.07	3455RC 01000231
85	SPST-NC	480-3241-ND	25.59	20.36	19.07	3455RC 01000232
90.6	SPST-NC	480-3242-ND	25.59	20.36	19.07	3455RC 01000233
21.1	SPST-NO	480-3243-ND	25.59	20.36	19.07	3455RC 01000243
32.2	SPST-NO	480-3244-ND	25.59	20.36	19.07	3455RC 01000244
43.3	SPST-NO	480-3245-ND	25.59	20.36	19.07	3455RC 01000245
54.4	SPST-NO	480-3246-ND	25.59	20.36	19.07	3455RC 01000246

Tyco Electronics
Authorized Distributor

P&B Magnetic Hydraulic Circuit Breakers

Dimensions in mm

Fig. 1

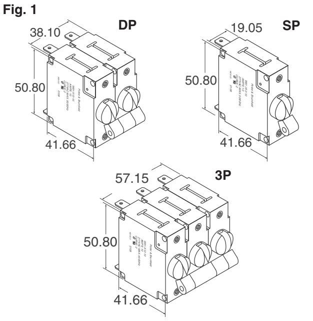

Fig. 2

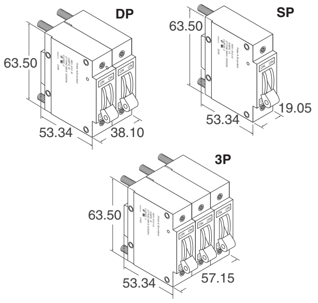

The W6/W9 series are designed for the international market. Magnetic hydraulic breakers are a proven design where the hydraulic delay provides tripping that is highly tolerant to changes in ambient temperatures. W9 units have ON/OFF molded into the area at the base of the toggle.

FEATURES:
- **Calibration:** Breakers will hold 100% of rated current. Breakers may trip between 101% and 124% of rated load. Breakers must trip at 125% of rated load and above. • **Operating Temperature:** -40°C ~ 85°C

Current (A)	Description	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — White Toggle Type Actuator						
5	SP, Instantaneous	PB426-ND	19.63	17.18	15.55	W67-X2Q10-5
10	SP, Std Delay, VDE	PB427-ND	19.63	17.18	15.55	W67-X2Q52-10
10	SP, Std Delay	PB592-ND	19.63	17.18	15.55	W67-X2Q12-10
15	SP, Std Delay	PB428-ND	19.63	17.18	15.55	W67-X2Q12-15
20	SP, Std Delay	PB593-ND	19.63	17.18	15.55	W67-X2Q12-20
10	DP, Std Delay	PB429-ND	45.55	39.86	36.07	W68-X2Q12-10
15	DP, Std Delay	PB430-ND	45.55	39.86	36.07	W68-X2Q12-15
20	DP, Std Delay	PB431-ND	45.55	39.86	36.07	W68-X2Q12-20
30	DP, Std Delay	PB594-ND	45.55	39.86	36.07	W68-X2Q12-30
10	3P, Std Delay	PB432-ND	61.90	54.16	49.01	W69-X2Q12-10
Fig. 2 — Black Toggle Type Actuator						
10	SP, Std Delay	PB433-ND	19.63	17.18	15.55	W91-X112-10
20	SP, Std Delay	PB434-ND	19.63	17.18	15.55	W91-X112-20
1	DP, Std Delay	PB435-ND	45.55	39.86	36.07	W92-X112-1
10	DP, Std Delay	PB595-ND◆	45.55	39.86	36.07	W92-X112-10
15	DP, Std Delay	PB436-ND	45.55	39.86	36.07	W92-X112-15
20	DP, Std Delay	PB437-ND	45.55	39.86	36.07	W92-X112-20
30	DP, Std Delay	PB438-ND	45.55	39.86	36.07	W92-X112-30
50	DP, Std Delay	PB439-ND	45.55	39.86	36.07	W92-X112-50
30	3P, Std Delay	PB596-ND	83.90	73.42	66.43	W93-X112-30
50	3P, Std Delay	PB440-ND	83.90	73.42	66.43	W93-X112-50
Kit — RoHS Compliant						
Hardware Toggle Kit for DP		PB817-ND	1.49	1.31	1.18	96-500A

◆ ***RoHS Compliant***

P&B Thermal Circuit Breakers

W28 Series

Replaces slow blow cartridge type fuses. Labor saving snap-in mounting. Button extends for visual trip indication on the push to reset versions. All breakers are black body with white rate marking. Panel thickness of .032" ~ .062" (.81mm ~ 1.57mm) except where noted. Optional push-on lockwasher for panel thickness greater than .105" (2.67mm).

Specifications:
- Maximum operating voltage: 32VDC; 250VAC
- Will continuously carry 100% of rated current
- **.25 ~ 2 Amp Model** may trip between 101% and 174% of rating within 1 hour, must trip at 175% of rating within 1 hour at 25°C
- **3 ~ 20 Amp Model** may trip between 101% and 134% of rating within 1 hour, must trip at 135% of rating within 1 hour at 25°C

Push To Reset Type

Dimensions in Inches (mm)

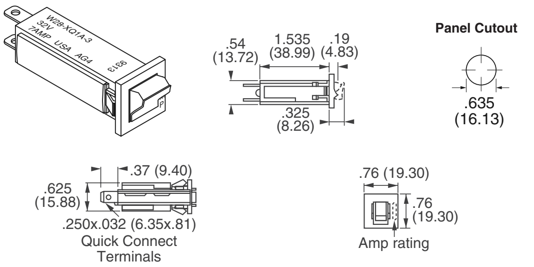

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push To Reset Type					
0.25	PB180-ND◆	5.40	4.73	4.28	W28-XQ1A-0.25
0.50	PB181-ND◆	5.40	4.73	4.28	W28-XQ1A-0.50
0.75	PB1022-ND◆	5.40	4.73	4.28	W28-XQ1A-0.75
1.0	PB182-ND◆	5.40	4.73	4.28	W28-XQ1A-1
1.0	PB1025-ND◆†	5.40	4.73	4.28	W28-XT1A-1
2.0	PB183-ND◆	5.40	4.73	4.28	W28-XQ1A-2
3.0	PB184-ND◆	2.93	2.57	2.32	W28-XQ1A-3
3.0	PB1028-ND◆†	2.93	2.57	2.32	W28-XT1A-3
4.0	PB185-ND◆	2.93	2.57	2.32	W28-XQ1A-4
5.0	PB186-ND◆	2.93	2.57	2.32	W28-XQ1A-5
5.0	PB1029-ND◆†	2.93	2.57	2.32	W28-XT1A-5
6.0	PB187-ND◆	2.93	2.57	2.32	W28-XQ1A-6
7.0	PB188-ND◆	2.93	2.57	2.32	W28-XQ1A-7
8.0	PB189-ND◆	2.93	2.57	2.32	W28-XQ1A-8
8.0	PB1030-ND◆†	2.93	2.57	2.32	W28-XT1A-8
9.0	PB1024-ND◆	2.93	2.57	2.32	W28-XQ1A-9
10	PB190-ND◆	2.93	2.57	2.32	W28-XQ1A-10
10	PB239-ND◆†	2.93	2.57	2.32	W28-XT1A-10
12	PB191-ND	2.93	2.57	2.32	W28-XQ1A-12
12	PB240-ND†	2.93	2.57	2.32	W28-XT1A-12
15	PB192-ND◆	2.93	2.57	2.32	W28-XQ1A-15
15	PB1026-ND◆†	2.93	2.57	2.32	W28-XT1A-15
16	PB1023-ND◆	2.93	2.57	2.32	W28-XQ1A-16
20	PB425-ND◆	2.93	2.57	2.32	W28-XQ1A-20
20	PB1027-ND◆†	2.93	2.57	2.32	W28-XT1A-20
Internal Lock Washer					
—	PB241-ND◆*	.41	.36	.33	55-025B

◆ ***RoHS Compliant*** † Will mount in .075" ~ .105" (1.91mm ~ 2.67mm) thick panel, all others have std. panel thickness of .032" ~ .062" (.81mm ~ 1.57mm) * Optional Push-On Lock Washer for panels greater than .105" (2.67mm) thickness.

(Continued)

Tyco Electronics
Authorized Distributor

P&B Thermal Circuit Breakers *(Cont.)*

W58 Series

Button extends for visual trip indication (red trip band). .250" (6.35mm) quick connect terminals or 6/32 screw terminals. Comes complete with knurled nut and hex nut assembled on bushing.
Specifications: • Breaker will continuously carry 100% of rated load. It may trip between 101% and 144% of rated load, but must trip at 145% at 25°C • Maximum operating voltage: 50VDC, 250VAC

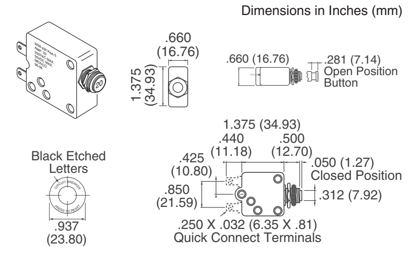

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push to Reset Breaker — .250 (6.35) QC Terminal					
1.0	PB193-ND◆‡	6.55	5.74	5.19	W58-XB1A4A-1
2.0	PB194-ND◆‡	6.55	5.74	5.19	W58-XB1A4A-2
3.0	PB195-ND◆‡	6.55	5.74	5.19	W5B-XB1A4A-3
3.5	PB1037-ND◆‡	6.55	5.74	5.19	W58-XB1A4A-3.5
4.0	PB196-ND◆‡	6.55	5.74	5.19	W58-XB1A4A-4
5.0	PB197-ND‡	4.70	4.12	3.73	W58-XB1A4A-5
6.0	PB198-ND◆‡	4.70	4.12	3.73	W58-XB1A4A-6
7.0	PB199-ND‡	4.70	4.12	3.73	W58-XB1A4A-7
8.0	PB200-ND‡	4.70	4.12	3.73	W58-XB1A4A-8
10	PB201-ND‡	4.70	4.12	3.73	W58-XB1A4A-10
12	PB202-ND‡	4.70	4.12	3.73	W58-XB1A4A-12
15	PB203-ND◆‡	4.70	4.12	3.73	W58-XB1A4A-15
20	PB204-ND◆‡	4.70	4.12	3.73	W58-XB1A4A-20
25	PB205-ND◆‡	4.70	4.12	3.73	W58-XB1A4A-25
30	PB206-ND◆‡	4.70	4.12	3.73	W58-XB1A4A-30
Push to Reset Breaker — 6-32 Screw Terminal					
1.0	PB242-ND†	6.55	5.74	5.19	W58-XC4C12A-1
2.0	PB243-ND†	6.55	5.74	5.19	W58-XC4C12A-2
3.0	PB244-ND†	6.55	5.74	5.19	W58-XC4C12A-3
5.0	PB245-ND◆†	5.30	4.65	4.20	W58-XC4C12A-5
7.0	PB246-ND†	5.30	4.65	4.20	W58-XC4C12A-7
10	PB247-ND†	5.30	4.65	4.20	W58-XC4C12A-10
15	PB248-ND†	5.30	4.65	4.20	W58-XC4C12A-15
20	PB249-ND†	5.30	4.65	4.20	W58-XC4C12A-20
25	PB250-ND†	5.30	4.65	4.20	W58-XC4C12A-25

◆ ***RoHS Compliant*** ‡ White button, Red Marking, Red Trip Band
† White button, Black Marking, Red Trip Band

W54 Series
Push to Reset Only
Thermal Circuit Breaker

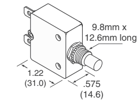

Features:
• New Inexpensive Design • Can not be manually tripped • Includes Mounting Hardware

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
5	PB1043-ND	2.86	2.50	2.27	W54-XB1A4A10-5
10	PB1044-ND	2.86	2.50	2.27	W54-XB1A4A10-10
15	PB1045-ND	2.86	2.50	2.27	W54-XB1A4A10-15
20	PB1046-ND	2.86	2.50	2.27	W54-XB1A4A10-20
25	PB1047-ND†	3.17	2.78	2.51	W54-XB1A4A10-25
30	PB1048-ND†	3.17	2.78	2.51	W54-XB1A4A10-30
35	PB1049-ND†‡	4.01	3.51	3.18	W54-XB1A4A10-35
Optional Protective Boot					
—	PB1136-ND	1.37	1.20	1.09	1-1423696-6

† Not VDE Approved ‡ Not UL Approved

Accessories for W58 and W54 Series

Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
"Push to Reset" disk for panel, use with 6-32 Screw Terminal Types				
PB253-ND	.38	.34	.31	33-012A
"Push to Reset" disk for panel, use with .250 (6.35) QC Terminal Types				
PB254-ND	.43	.38	.35	33-012C
Knurled Nut, Silver Plated, use with .250 (6.35) QC Terminal Types				
PB255-ND	.62	.55	.50	55-010A

W23 and W31 Series

Two series of thermal circuit breakers with your choice of push/pull actuation or toggle actuation. W23 series (push/pull) has a visual trip indicator to quickly determine circuit breaker status. W31 series (toggle) offers an On/Off switch combined with circuit protection. Both series have amperage marking on the end of the actuator and 8-32 screw terminals. Single Pole only.
Features: • **Calibration:** Will continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour • **Maximum Operating Voltages:** 50VDC or 240VAC (to 400Hz) • **Dielectric Strength:** Over 1,500 volts RMS • **Endurance Cycling:** More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles • **Termination:** Two #8-32 screw terminals
Agency Approvals: W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and CSA Certified as Appliance Component Protectors, File LR15734

Dimensions in mm

Fig. 1 — W23 Series

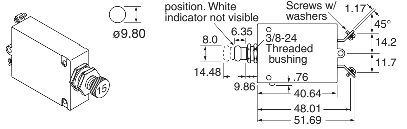

Fig. 2 — W31 Series

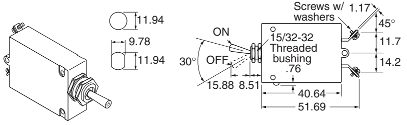

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — Push/Pull Type					
1.0	PB399-ND	34.99	30.62	27.71	W23-X1A1G-1
2.0	PB400-ND◆	34.99	30.62	27.71	W23-X1A1G-2
3.0	PB401-ND	34.99	30.62	27.71	W23-X1A1G-3
5.0	PB402-ND	22.80	19.95	18.05	W23-X1A1G-5
7.5	PB403-ND	22.80	19.95	18.05	W23-X1A1G-7.50
10	PB404-ND	22.80	19.95	18.05	W23-X1A1G-10
15	PB405-ND◆	22.80	19.95	18.05	W23-X1A1G-15
20	PB406-ND	22.80	19.95	18.05	W23-X1A1G-20
25	PB407-ND	22.80	19.95	18.05	W23-X1A1G-25
30	PB408-ND	22.80	19.95	18.05	W23-X1A1G-30
35	PB409-ND◆	22.80	19.95	18.05	W23-X1A1G-35
40	PB410-ND	22.80	19.95	18.05	W23-X1A1G-40
50	PB411-ND◆	22.80	19.95	18.05	W23-X1A1G-50
Fig. 2 — Toggle Type					
1.0	PB412-ND	41.04	35.91	32.49	W31-X2M1G-1
2.0	PB413-ND	41.04	35.91	32.49	W31-X2M1G-2
3.0	PB414-ND	41.04	35.91	32.49	W31-X2M1G-3
5.0	PB415-ND	28.37	24.83	22.46	W31-X2M1G-5
7.5	PB416-ND	28.37	24.83	22.46	W31-X2M1G-7.50
10	PB417-ND◆	28.37	24.83	22.46	W31-X2M1G-10
15	PB418-ND	28.37	24.83	22.46	W31-X2M1G-15
20	PB419-ND◆	28.37	24.83	22.46	W31-X2M1G-20
25	PB420-ND	28.37	24.83	22.46	W31-X2M1G-25
30	PB421-ND	28.37	24.83	22.46	W31-X2M1G-30
35	PB422-ND	28.37	24.83	22.46	W31-X2M1G-35
40	PB423-ND	28.37	24.83	22.46	W31-X2M1G-40
50	PB424-ND	28.37	24.83	22.46	W31-X2M1G-50

◆ ***RoHS Compliant***

W57 Series Miniature Thermal Breaker

Specifications:
Electrical Data @ 25°C: • Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C • Maximum Operating Voltages: 50VDC; 125 or 250VAC. *(Mounting Hardware included.)*
Mechanical/Environmental Data:
• Operating Temperature Range: 0°C ~ 60°C • Termination: .250" quick connects
Agency Approvals: UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

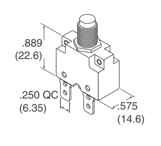

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Metal Bushings (15/32)					
5.0	PB532-ND	1.99	1.75	1.58	W57-XB7A4A10-5
8.0	PB658-ND	1.99	1.75	1.58	W57-XB7A4A10-8
10	PB533-ND	1.92	1.68	1.52	W57-XB7A4A10-10
15	PB534-ND	1.92	1.68	1.52	W57-XB7A4A10-15
20	PB535-ND	2.33	2.04	1.85	W57-XB7A4A10-20
Plastic Bushings (9.8mm)					
5	PB1068-ND	2.54	2.23	2.02	W57-XB1A7A10-5
10	PB1069-ND	2.54	2.23	2.02	W57-XB1A7A10-10
15	PB1070-ND	2.54	2.23	2.02	W57-XB1A7A10-15
20	PB1071-ND†	2.54	2.23	2.02	W57-XB1A7A10-20

† Not VDE Approved

W33 Series

Combination switch and separate circuit breaker in one package. 5 ~ 20A versions available in either one circuit breaker with separate switch or 2 circuit breaker option available. Lighted or non-lighted actuator with convenient snap-in mounting. Available in three colors: black, white or amber. Illuminated versions are 120VAC neon lamps. Two breaker models will trip both sides when only 1 side is overdriven. Reset is accomplished with rocker actuator at front of device.

Specifications:
- Breaker will continuously carry 100% of the rated load. It may trip between 101% and 135% of rated load, but must trip at 135% within 1 hour at 25°C
- Maximum Operating Voltage: 50VCD, 250VAC

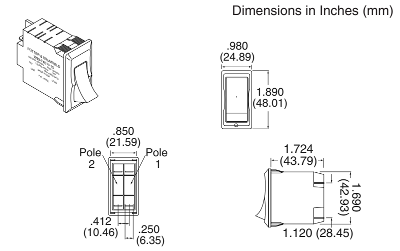

Pole 1/Pole 2 Type	Current (A)	Digi-Key Part No.	Price Each 1	25	Potter & Brumfield Part No.
Switch/Breaker	5.0	PB257-ND†	16.85	14.75	W33-S1N1Q-5
	15	PB259-ND†◆	16.85	14.75	W33-S1N1Q-15
	20	PB260-ND†◆	16.85	14.75	W33-S1N1Q-20
Switch/Breaker, 120V Illum.	5.0	PB1032-ND‡◆	20.42	17.88	W33-S4B1Q-5
	10	PB261-ND‡	20.42	17.88	W33-S4B1Q-10
	15	PB262-ND‡	20.42	17.88	W33-S4B1Q-15
	20	PB1031-ND‡◆	20.42	17.88	W33-S4B1Q-20
2 Breakers	20	PB263-NDΔ◆	23.78	20.82	W33-T2N1Q-20
2 Breakers, 120V Illum.	5.0	PB264-ND‡◆	26.74	23.40	W33-T4B1Q-5
	10	PB265-ND‡◆	26.74	23.40	W33-T4B1Q-10
	15	PB266-ND‡◆	26.74	23.40	W33-T4B1Q-15

◆ ***RoHS Compliant*** † Black ‡ Amber Δ White

W51 Series Rocker / Breaker Combination

Features:
- Compact, trip-free, rocker-actuated design
- Provides circuit protection and power switching in a single unit
- Snaps into the same cutout as many common power switches

Electrical Data @ 25°C:
- Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C
- Maximum Operating Voltages: 50VDC; 125 or 250VAC 50/60Hz
- Reset Time: 60 Seconds

Mechanical/Environmental Data:
- Operating Temperature Range: 0°C ~ 60°C
- Termination: .250" quick connects
- Illumination Voltage: 120 or 230VAC

Agency Approvals: UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

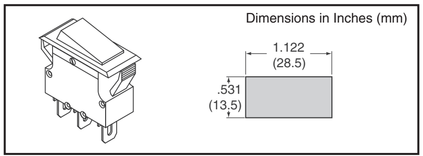

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	Potter & Brumfield Part No.
Black Body, Non-Illuminated Black Rocker	5.0	PB1036-ND◆	3.29	2.88	W51-A152A1-5
	10	PB1033-ND◆	3.29	2.88	W51-A152A1-10
	15	PB1034-ND◆	3.29	2.88	W51-A152A1-15
	20	PB1035-ND◆	3.29	2.88	W51-A152A1-20
Black Body, 120V Illum. Red Rocker	5.0	PB528-ND	3.43	3.01	W51-A121B1-5
	10	PB529-ND	3.43	3.01	W51-A121B1-10
	15	PB530-ND◆	3.43	3.01	W51-A121B1-15
	20	PB531-ND◆	3.43	3.01	W51-A121B1-20
Black Body, 230V Illum. Red Rocker	5.0	PB652-ND◆	3.43	3.01	W51-A122B1-5
	7.0	PB654-ND◆	3.55	3.11	W51-A122B1-7
	8.0	PB655-ND	3.43	3.01	W51-A122B1-8
	10	PB677-ND	3.43	3.01	W51-A122B1-10
	15	PB678-ND	3.43	3.01	W51-A122B1-15
	20	PB653-ND	3.43	3.01	W51-A122B1-20

◆ ***RoHS Compliant***

Qualtek Electronics Corporation

Resettable Thermal Circuit Breakers

Panel Mount Thermal Circuit Breakers from Qualtek feature up to 30A protection, Push to Reset and are available in snap-in or threaded mounts

Specifications:

- Resettable overload capacity is 10x rated current
- All Ratings are 125-250VAC/32VDC

Approvals:
UL, CUL, CCC, CE, VDE 3A ~ 16A, TUV 3A ~ 40A

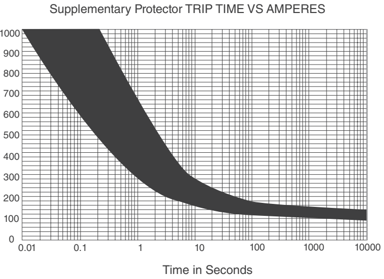

Fig. 1 — Snap-In

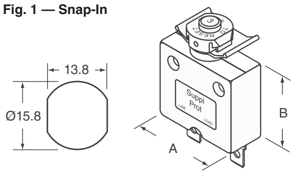

Fig. 2 — Threaded

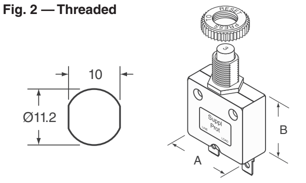

Fig.	Current (A)	Dimensions (mm)		Digi-Key Part No.	Price Each			Qualtek Part No.
		A	B		1	10	25	
1	3	35	31	Q496-ND	1.97	1.81	1.52	QLB-033-00DNN-3BA
	3	29.3	22.2	Q512-ND	1.97	1.81	1.52	QMB-032-00ENN-3BA
	5	35	31	Q498-ND	1.97	1.81	1.52	QLB-053-00DNN-3BA
	5	29.3	22.2	Q514-ND	1.97	1.81	1.52	QMB-052-00ENN-3BA
	7	35	31	Q500-ND	1.97	1.81	1.52	QLB-073-00DNN-3BA
	7	29.3	22.2	Q516-ND	1.50	1.38	1.16	QMB-072-00-ENN-3BA
	10	35	31	Q502-ND	1.60	1.47	1.23	QLB-103-00DNN-3BA
	10	29.3	22.2	Q518-ND	1.22	1.12	.94	QMB-102-00ENN-3BA
	12	29.3	22.2	Q520-ND	1.69	1.55	1.30	QMB-122-00ENN-3BA
	15	35	31	Q504-ND	1.50	1.38	1.16	QLB-153-00DNN-3BA
	15	29.3	22.2	Q522-ND	1.27	1.17	.98	QMB-152-00ENN-3BA
	20	29.3	22.2	Q524-ND	1.74	1.60	1.34	QMB-203-00ENN-3BA
	20	35	31	Q506-ND	1.74	1.60	1.34	QLB-203-00DNN-3BA
	25	35	31	Q508-ND	1.97	1.81	1.52	QLB-253-00DNN-3BA
	30	35	31	Q510-ND	2.21	2.03	1.70	QLB-303-00DNN-3BA
2	3	35	31	Q497-ND	2.02	1.85	1.55	QLB-033-11B3N-3BA
	3	29.3	22.2	Q513-ND	2.12	1.94	1.62	QMB-032-11C3N-3BA
	5	35	31	Q499-ND	2.02	1.85	1.55	QLB-053-11B3N-3BA
	5	29.3	22.2	Q515-ND	2.12	1.94	1.62	QMB-052-11C3N-3BA
	7	35	31	Q501-ND	2.02	1.85	1.55	QLB-073-11B3N-3BA
	7	29.3	22.2	Q517-ND	1.60	1.47	1.23	QMB-072-11C3N-3BA
	10	35	31	Q503-ND	1.65	1.51	1.26	QLB-103-11B3N-3BA
	10	29.3	22.2	Q519-ND	1.22	1.12	.94	QMB-102-11C3N-3BA
	12	29.3	22.2	Q521-ND	1.72	1.57	1.32	QMB-122-11C3N-3BA
	15	35	31	Q505-ND	1.55	1.42	1.19	QLB-153-11B3N-3BA
	15	29.3	22.2	Q523-ND	1.34	1.23	1.03	QMB-152-11C3N-3BA
	20	35	31	Q507-ND	1.83	1.68	1.41	QLB-203-11B3N-3BA
	20	29.3	22.2	Q525-ND	1.86	1.70	1.43	QMB-203-11C3N-3BA
	25	35	31	Q509-ND	2.02	1.85	1.55	QLB-253-11B3N-3BA
	30	35	31	Q511-ND	2.26	2.07	1.73	QLB-303-11B3N-3BA

Carling Technologies™

Panel Mount Rocker Circuit Breakers

Specifications: • **Rating:** 125-250VAC, 50VDC • **Interrupting Capacity:** 1000A • **Insulation Resistance:** 100MΩ

Dimensions in Inches (mm)

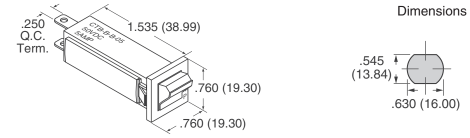

Current (A)	Digi-Key Part No.	Price Each			Carling Technologies Part No.
		1	10	25	
9.0	432-1129-ND	1.96	1.72	1.47	CTB-B-B-09

E•SWITCH®

Electromagnetic Switch

KJD17 Series

The KJD17 Series electromagnetic switch uses an electromagnet to prevent restart if the power fails. The remote trip feature allows the switch to be released by an external circuit.

Features:

- Heavy duty industrial design
- Pushbutton with PVC cap
- Protection against power shortage and under voltage

Dimensions in mm

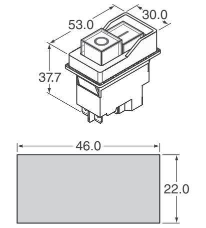

Description	Digi-Key Part No.	Price Each			E-Switch Part No.
		1	10	100	
Pushbutton 16A, 120VAC	EG4808-ND	9.95	8.88	7.65	KJD17-21213-112
Pushbutton 16A, 120VAC with Remote Trip	EG4809-ND	9.95	8.88	7.65	KJD17-22213-112

Sensata Technologies

Magnetic Circuit Breakers

SNAPAK is a AIRPAX® brand, snap-acting magnetic circuit protector that combines power switching and accurate, reliable circuit protection in one aesthetically pleasing package. SNAPAK circuit protectors are UL Recognized as supplementary protectors per UL STD. 1077, CSA Certified as supplementary protectors per CSA STD. C22.2 No. 235. Typical applications include office appliances, electronic data processing, medical equipment, business machines, vending and amusement machines. Push-pull versions are particularly well suited for medical instrumentation, automotive production transfer lines and other applications where accidental turn off is unacceptable.

Fig.	Description	Current (A)	Digi-Key Part No.	Price Each			Sensata Part No.
				1	10	25	
	IE Series Magnetic Breaker						
1	Breaker, SP, Long Delay, White Handle, Screw Terminal	50	723-1161-ND	23.10	21.87	19.80	IEG6-1-72-50.0-91-V
	Breaker, DP, Long Delay, White Handle QC Terminal	20	723-1163-ND	50.68	47.97	43.44	IEGH11-1-72-20.0-91-V
	Breaker, DP, Long Delay, White Handle QC Terminal	30	723-1164-ND	50.68	47.97	43.44	IEGH11-1-72-30.0-91-V
	Breaker, SP, Long Delay, White Handle Stud Terminal	50	723-1167-ND	30.66	29.02	26.28	IELK1-1-72-50.0-01-V
	Breaker, SP, Long Delay, White Handle Stud Terminal	70	723-1168-ND	42.84	40.55	36.72	IELK1-1-72-70.0-01-V
	Breaker, SP, Long Delay, White Handle Stud Terminal	100	723-1169-ND	42.84	40.55	36.72	IELK1-1-72-100.-01
	R11 Rocker and PP11 Push-Pull						
2	Rocker Breaker, SP	4	723-1174-ND	20.30	19.22	17.40	R11-4-4.00A-R01CV-V
	Rocker Breaker, SP	5	723-1175-ND	17.92	16.96	15.36	R11-2-5.00A-B06CV-V
	Rocker Breaker, DP	7.5	723-1176-ND	56.42	53.40	48.36	R21-4-7.50A-B06IV-V
3	Push-Pull, Breaker DP, QC Terminal	10	723-1177-ND	41.30	39.09	35.40	PP21-2-10.0A-OC-V
	Push-Pull Breaker, SP, QC Terminal	2	723-1178-ND	17.36	16.43	14.88	PP11-62-2.00A-OC-V

Dimensions in Inches (mm)

Fig. 1

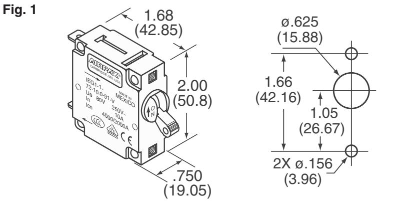

Fig. 2

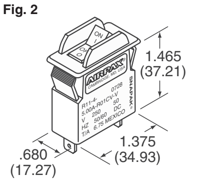

Fig. 3

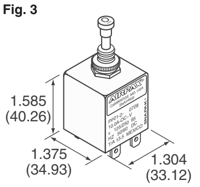

ATR Thermal Circuit Breakers

Thermal circuit breakers from Sensata Technologies, AIRPAX® brand features a trip mechanism of the circuit protector is designed to open the contacts in the event of a current flow in excess of the rated current and in accordance with the time/current characteristics of the device. A bimetal strip deflects and releases the latch mechanism when heated by an overload. The strip has the advantage of being immune to high inrush currents and line transients.

Includes mounting hardware.

Fig.	Current (A)	Digi-Key Part No.	Price Each			Sensata Part No.
			1	10	25	
1	1	723-1120-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-1.0A
2	10	723-1145-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-10.0A-2
	15	723-1147-ND	7.22	6.94	6.66	ATR20-A-63S-WB2-B-15.0A-2

Dimensions in Inches (mm)

Fig.1 — ATR11

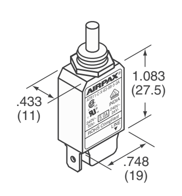

Fig. 2 — ATR20

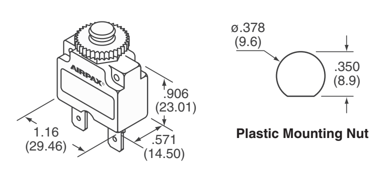

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Circuit Breakers —

Hydraulic - Magnetic

UL 1077 Approved:
• Trip Curve: 2 Standard • Maximum Voltage: 277/480 50/60 Hz • Interrupting Cap: 5000A @ 120V, 1,000A @ 277V, 1000A @ 480V • Dielectric Strength: 1960V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

UL 489 Approved:
• Trip Curve: KM Standard • Maximum Voltage: 120/240V 50/60Hz • Interrupting Cap: 10,000A • Dielectric Strength: 1,500V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

UL 489A Approved:
• Trip Curve: U2 Standard • Maximum Voltage: 80VDC • Interrupting Cap: 10,000A • Dielectric Strength: 1.500V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

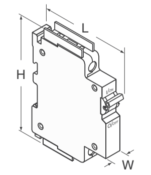

Single Pole

Dimensions Inches (mm) L x H x W	No. of Poles	Trip Current (A)	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
UL 1077 for AC Current							
2.87 x 3.66 x .51 (73 x 93 x 13)	1	1	288-1204-ND	18.13	16.32	14.50	C1A1P
	1	2	288-1205-ND	18.13	16.32	14.50	C2A1P
	1	5	288-1206-ND	18.13	16.32	14.50	C5A1P
	1	10	288-1207-ND	18.13	16.32	14.50	C10A1P
	1	15	288-1208-ND	18.13	16.32	14.50	C15A1P
	1	20	288-1209-ND	18.13	16.32	14.50	C20A1P
	1	25	288-1210-ND	18.13	16.32	14.50	C25A1P
	1	30	288-1211-ND	18.13	16.32	14.50	C30A1P
	1	40	288-1212-ND	18.13	16.32	14.50	C40A1P
	1	50	288-1213-ND	18.13	16.32	14.50	C50A1P
2.87 x 3.66 x 1.02 (73 x 93 x 26)	2	1	288-1214-ND	36.25	32.63	29.00	C1A2P
	2	2	288-1215-ND	36.25	32.63	29.00	C2A2P
	2	5	288-1216-ND	36.25	32.63	29.00	C5A2P
	2	10	288-1217-ND	36.25	32.63	29.00	C10A2P
	2	15	288-1218-ND	36.25	32.63	29.00	C15A2P
	2	20	288-1219-ND	36.25	32.63	29.00	C20A2P
	2	25	288-1220-ND	36.25	32.63	29.00	C25A2P
	2	30	288-1221-ND	36.25	32.63	29.00	C30A2P
	2	40	288-1222-ND	36.25	32.63	29.00	C40A2P
	2	50	288-1223-ND	36.25	32.63	29.00	C50A2P
2.87 x 3.66 x 1.54 (73 x 93 x 39)	3	1	288-1224-ND	54.38	48.94	43.50	C1A3P
	3	2	288-1225-ND	54.38	48.94	43.50	C2A3P
	3	5	288-1226-ND	54.38	48.94	43.50	C5A3P
	3	10	288-1227-ND	54.38	48.94	43.50	C10A3P
	3	15	288-1228-ND	54.38	48.94	43.50	C15A3P
	3	20	288-1229-ND	54.38	48.94	43.50	C20A3P
	3	25	288-1230-ND	54.38	48.94	43.50	C25A3P
	3	30	288-1231-ND	54.38	48.94	43.50	C30A3P
	3	40	288-1232-ND	54.38	48.94	43.50	C40A3P
	3	50	288-1233-ND	54.38	48.94	43.50	C50A3P
UL 489 for AC Current							
2.91 x 3.66 x .51 (74 x 93 x 13)	1	1	288-1354-ND	22.50	20.25	18.00	C1A1P-489
	1	2	288-1355-ND	22.50	20.25	18.00	C2A1P-489
	1	5	288-1356-ND	22.50	20.25	18.00	C5A1P-489
	1	10	288-1357-ND	22.50	20.25	18.00	C10A1P-489
	1	15	288-1358-ND	22.50	20.25	18.00	C15A1P-489
	1	20	288-1359-ND	22.50	20.25	18.00	C20A1P-489
	1	25	288-1360-ND	22.50	20.25	18.00	C25A1P-489
2.91 x 3.66 x 1.02 (74 x 93 x 26)	2	1	288-1361-ND	45.00	40.50	36.00	C1A2P-489
	2	2	288-1362-ND	45.00	40.50	36.00	C2A2P-489
	2	5	288-1363-ND	45.00	40.50	36.00	C5A2P-489
	2	10	288-1364-ND	45.00	40.50	36.00	C10A2P-489
	2	15	288-1365-ND	45.00	40.50	36.00	C15A2P-489
	2	20	288-1366-ND	45.00	40.50	36.00	C20A2P-489
	2	25	288-1367-ND	45.00	40.50	36.00	C25A2P-489
UL 489A for DC Current							
2.91 x 3.66 x .51 (74 x 93 x 13)	1	1	288-1368-ND	22.50	20.25	18.00	C1A1P-80VDC
	1	2	288-1369-ND	22.50	20.25	18.00	C2A1P-80VDC
	1	5	288-1370-ND	22.50	20.25	18.00	C5A1P-80VDC
	1	10	288-1371-ND	22.50	20.25	18.00	C10A1P-80VDC
	1	15	288-1372-ND	22.50	20.25	18.00	C15A1P-80VDC
	1	20	288-1373-ND	22.50	20.25	18.00	C20A1P-80VDC
	1	25	288-1374-ND	22.50	20.25	18.00	C25A1P-80VDC
	1	30	288-1375-ND	22.50	20.25	18.00	C30A1P-80VDC
	1	40	288-1376-ND	22.50	20.25	18.00	C40A1P-80VDC
	1	50	288-1377-ND	22.50	20.25	18.00	C50A1P-80VDC

Weidmüller

Branch Rated/Supplemental Circuit Protection

Weidmuller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. Circuit breakers in the 9926 Branch Rated Series are UL489 Listed and CSA Certified as branch rated protection devices under CSA 22.2 No. 5-02. The hydraulic magnetic trip mechanism offers 10,000A of interrupting capacity. Breakers in the 9926 Supplement Rated Series are UL1077 recognized.

Mounting Options: If the product is not vertically mounted in the normal DIN-rail mounting orientation, a rating factor must be applied. The published curves for these circuit breaker products are produced with the circuit breaker in the vertical mounting position. The rating factor only applies to the must hold and must trip points of the curve as the other parts (instantaneous trip point) stay largely unaffected.

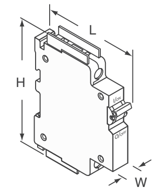

Dimensions Inches (mm) L x H x W	No. of Poles	Trip Current (A)	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
UL489 for AC Current							
2.91 x 3.65 x .51 (74 x 92.8 x 13)	1	1	281-2398-ND	21.26	19.67	16.48	9926251001
	1	2	281-2399-ND	21.26	19.67	16.48	9926251002
	1	5	281-2400-ND	21.26	19.67	16.48	9926251005
	1	10	281-2401-ND	21.26	19.67	16.48	9926251010
	1	15	281-2402-ND	21.26	19.67	16.48	9926251015
	1	20	281-2403-ND	21.26	19.67	16.48	9926251020
	1	25	281-2404-ND	21.26	19.67	16.48	9926251025
2.91 x 3.65 x 1.02 (74 x 92.8 x 26)	2	1	281-2405-ND	37.17	33.99	28.68	9926252001
	2	2	281-2506-ND	37.17	33.99	28.68	9926252002
	2	5	281-2507-ND	37.17	33.99	28.68	9926252005
	2	10	281-2508-ND	37.17	33.99	28.68	9926252010
	2	15	281-2509-ND	37.17	33.99	28.68	9926252015
	2	20	281-2510-ND	37.17	33.99	28.68	9926252020
	2	25	281-2511-ND	37.17	33.99	28.68	9926252025
UL489A for DC Current							
2.91 x 3.65 x .51 (74 x 92.8 x 13)	1	1	281-2512-ND	21.26	19.67	16.48	9926251901
	1	2	281-2513-ND	21.26	19.67	16.48	9926251902
	1	5	281-2514-ND	21.26	19.67	16.48	9926251905
	1	10	281-2515-ND	21.26	19.67	16.48	9926251910
	1	15	281-2516-ND	21.26	19.67	16.48	9926251915
	1	20	281-2517-ND	21.26	19.67	16.48	9926251920
	1	25	281-2518-ND	21.26	19.67	16.48	9926251925
	1	30	281-2519-ND	21.26	19.67	16.48	9926251930
	1	35	281-2520-ND	21.26	19.67	16.48	9926251935
	1	40	281-2566-ND	21.26	19.67	16.48	9926251940
	1	45	281-2521-ND	21.26	19.67	16.48	9926251945
	1	50	281-2522-ND	21.26	19.67	16.48	9926251950
	1	60	281-2523-ND	21.26	19.67	16.48	9926251960
UL1077 for AC Current							
2.87 x 3.65 x .51 (73 x 92.8 x 13)	1	1	281-2524-ND	20.79	19.23	16.11	9926251501
	1	2	281-2525-ND	20.79	19.23	16.11	9926251502
	1	3	281-2526-ND	20.79	19.23	16.11	9926251503
	1	4	281-2527-ND	20.79	19.23	16.11	9926251504
	1	5	281-2528-ND	20.79	19.23	16.11	9926251505
	1	6	281-2529-ND	20.79	19.23	16.11	9926251506
	1	8	281-2530-ND	20.79	19.23	16.11	9926251508
	1	10	281-2531-ND	20.79	19.23	16.11	9926251510
	1	15	281-2532-ND	20.79	19.23	16.11	9926251515
	1	20	281-2533-ND	20.79	19.23	16.11	9926251520
	1	25	281-2534-ND	20.79	19.23	16.11	9926251525
	1	35	281-2535-ND	20.79	19.23	16.11	9926251535
	1	40	281-2536-ND	20.79	19.23	16.11	9926251540
	1	50	281-2537-ND	20.79	19.23	16.11	9926251550
	1	60	281-2538-ND	20.79	19.23	16.11	9926251560
2.87 x 3.65 x 1.02 (73 x 92.8 x 26)	2	1	281-2539-ND	36.40	33.28	28.08	9926252501
	2	2	281-2540-ND	36.40	33.28	28.08	9926252502
	2	4	281-2541-ND	36.40	33.28	28.08	9926252504
	2	5	281-2542-ND	36.40	33.28	28.08	9926252505
	2	6	281-2543-ND	36.40	33.28	28.08	9926252506
	2	10	281-2544-ND	36.40	33.28	28.08	9926252510
	2	15	281-2545-ND	36.40	33.28	28.08	9926252515
	2	20	281-2546-ND	36.40	33.28	28.08	9926252520
	2	25	281-2547-ND	36.40	33.28	28.08	9926252525
	2	30	281-2548-ND	36.40	33.28	28.08	9926252530
	2	35	281-2549-ND	36.40	33.28	28.08	9926252535
	2	40	281-2550-ND	36.40	33.28	28.08	9926252540
	2	50	281-2551-ND	36.40	33.28	28.08	9926252550
	2	60	281-2552-ND	36.40	33.28	28.08	9926252560
2.87 x 3.65 x 1.54 (73 x 92.8 x 39)	3	10	281-2553-ND	54.59	49.91	42.12	9926253510
	3	15	281-2554-ND	54.59	49.91	42.12	9926253515
	3	20	281-2555-ND	54.59	49.91	42.12	9926253520
	3	25	281-2556-ND	54.59	49.91	42.12	9926253525
	3	30	281-2557-ND	54.59	49.91	42.12	9926253530
	3	40	281-2558-ND	54.59	49.91	42.12	9926253540
	3	50	281-2559-ND	54.59	49.91	42.12	9926253550
	3	60	281-2560-ND	54.59	49.91	42.12	9926253560

Accessories

Fig. 1

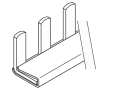

Fig. 2

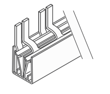

Fig. 3

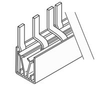

Fig. 4

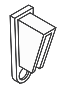

Fig. 5

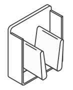

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
1	Bus bar 1 pole, insulated 1m	281-2561-ND	55.35	50.61	42.70	67101904
2	Bus bar 2 pole, insulated 1m	281-2562-ND	124.37	113.72	95.95	67101972
3	Bus bar 3 pole, insulated 1m	281-2563-ND	187.92	171.81	144.97	67101971
4	Bus bar end cap, 1 pole	281-2564-ND	1.06	.96	.85	67101973
5	Bus bar end cap, 2 pole or 3 pole	281-2565-ND	2.13	1.92	1.71	67101974

Combination Rocker/Circuit Breaker Switches - 1410-F Series

Voltage Rating: AC 250V; DC 48 **Ambient Temperature:** -40°C ~ 70°C

Dimensions in mm

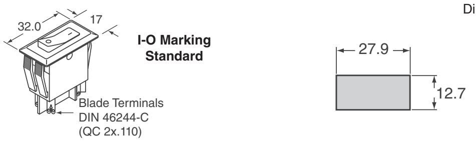

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
SP, Red Non-Illuminated Actuators — RoHS Compliant						
1	302-1164-ND	15.48	14.45	13.42	12.73	1410-F110-P1F1-W14Q-1A
2	302-1165-ND	15.48	14.45	13.42	12.73	1410-F110-P1F1-W14Q-2A
5	302-1168-ND	15.48	14.45	13.42	12.73	1410-F110-P1F1-W14Q-5A
10	302-1169-ND	15.48	14.45	13.42	12.73	1410-F110-P1F1-W14Q-10A
SP, Red Illuminated Actuators						
1	302-1170-ND◆	17.24	16.09	14.94	14.18	1410-F110-P1F1-W14QE3-1A
2	302-1171-ND	17.24	16.09	14.94	14.18	1410-F110-P1F1-W14QE3-2A
5	302-1174-ND	17.24	16.09	14.94	14.18	1410-F110-P1F1-W14QE3-5A
10	302-1175-ND	15.48	14.45	13.42	12.73	1410-F110-P1F1-W14QE3-10A

◆ *RoHS Compliant*

Combination Rocker/Circuit Breaker Switches - 3120 Series

Voltage Rating: AC 240V; DC 50V **Ambient Temperature:** -30°C ~ 60°C

Dimensions in mm

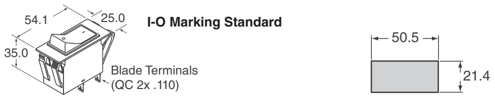

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Single Pole, Black Actuators						
1	302-1176-ND	22.05	20.58	19.11	18.13	3120-F311-P7T1-W01D-1A
5	302-1178-ND	17.96	16.76	15.57	14.77	3120-F311-P7T1-W01D-5A
10	302-1179-ND	17.96	16.76	15.57	14.77	3120-F311-P7T1-W01D-10A
15	302-1180-ND	17.96	16.76	15.57	14.77	3120-F311-P7T1-W01D-15A
20	302-1181-ND	17.96	16.76	15.57	14.77	3120-F311-P7T1-W01D-20A
Single Pole, White Actuators						
20	302-1187-ND	17.96	16.76	15.57	14.77	3120-F311-P7T1-W02D-20A
30	302-1341-ND	33.53	31.29	29.06	27.57	3120-F3P1-P7T1-W02D-30A
Double Pole, Black Actuators						
2	302-1191-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W01D-2A
5	302-1195-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W01D-5A
10	302-1200-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W01D-10A
15	302-1203-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W01D-15A
20	302-1206-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W01D-20A
Double Pole, White Actuators						
1	302-1208-ND	40.25	37.57	34.89	33.10	3120-F321-P7T1-W02D-1A
2	302-1210-ND	40.25	37.57	34.89	33.10	3120-F321-P7T1-W02D-2A
10	302-1219-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W02D-10A
15	302-1222-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W02D-15A
20	302-1225-ND	34.88	32.55	30.23	28.68	3120-F321-P7T1-W02D-20A

Mini Automotive Circuit Breakers - 1620 Series

Dimensions in mm

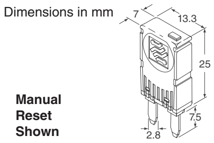

Features:

- Fits into fuse blocks designed to ISO 8820-3, Type F
- Meets the requirements of SAE J553
- Ambient temperature: -40° ~ 85°C (-40° ~ 185°F)

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Auto-Reset, 12VDC, Mini Breaker Type I						
5	302-1363-ND	10.82	10.11	9.38	8.90	1620-1-5A
10	302-1364-ND	10.82	10.11	9.38	8.90	1620-1-10A
20	302-1365-ND	10.82	10.11	9.38	8.90	1620-1-20A
30	302-1366-ND	10.82	10.11	9.38	8.90	1620-1-30A
Manual-Reset, 24VDC, Mini Breaker Type III						
5	302-1371-ND	11.39	10.63	9.87	9.37	1620-3-5A
10	302-1372-ND	11.39	10.63	9.87	9.37	1620-3-10A
20	302-1373-ND	11.39	10.63	9.87	9.37	1620-3-20A
30	302-1374-ND	11.39	10.63	9.87	9.37	1620-3-30A

ATO Automotive Circuit Breakers - 1610 Series

Ambient Temperature: -40°C ~ 85°C **Terminals:** Q.C. .250"

Dimensions in mm

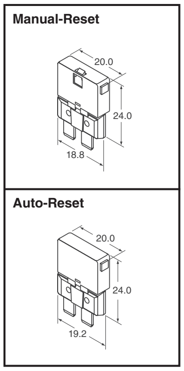

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
SP, Manual-Reset, 32VDC, ATO Breakers						
5	302-1334-ND	9.09	8.49	7.88	7.48	1610-21-5A
6	302-1236-ND	9.09	8.49	7.88	7.48	1610-21-6A
10	302-1237-ND	9.09	8.49	7.88	7.48	1610-21-10A
15	302-1234-ND	9.09	8.49	7.88	7.48	1610-21-15A
20	302-1233-ND	9.09	8.49	7.88	7.48	1610-21-20A
25	302-1238-ND	9.09	8.49	7.88	7.48	1610-21-25A
30	302-1239-ND	9.09	8.49	7.88	7.48	1610-21-30A
SP, Auto-Reset, 12VDC, ATO Breakers						
5	302-1336-ND	9.09	8.49	7.88	7.48	1610-92-5A
6	302-1240-ND	9.09	8.49	7.88	7.48	1610-92-6A
10	302-1242-ND	9.09	8.49	7.88	7.48	1610-92-10A
15	302-1243-ND	9.09	8.49	7.88	7.48	1610-92-15A
30	302-1246-ND	9.09	8.49	7.88	7.48	1610-92-30A

Din Rail Terminal Blocks for 1610 Series and 1180 Series

Description	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Single Mounting Socket with Screw Terminals; 6-32 UNC	302-1330-ND	6.41	5.99	5.56	5.28	12-J20
Single Mounting Socket with Blade Terminals; A6.3 ~ 0.8 (Q.C. .250")	302-1331-ND	5.06	4.73	4.39	4.17	12-P10
Single Mounting Socket with 1 Blade Terminal; A6.3 ~ 0.8 (Q.C. .250")/ 1 Screw Terminal 6-32 UNC	302-1332-ND	6.55	6.12	5.68	5.39	12-A10

Single Pole Thermal Circuit Breakers - 1180 Series

Dimensions in mm

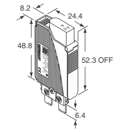

Voltage Rating: AC 250V; DC 72V **Ambient Temperature:** -20°C ~ 60°C

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
1	302-1326-ND	17.93	16.74	15.55	14.75	1180-01-1A
2	302-1327-ND	17.93	16.74	15.55	14.75	1180-01-2A
10	302-1325-ND	17.93	16.74	15.55	14.75	1180-01-10A

NEW! Hall Effect Current Sensors - TD and 9001 Series

Dimensions in mm

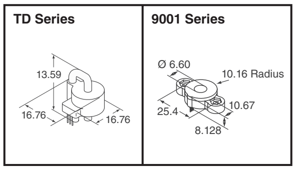

Supply Voltage: -1.0 ~ 25 VDC **Voltage externally applied to output:** 25 VDC max (output high, current below I_{trip}), -0.5 VDC min (output high or low) **Output ON current (sink):** 50 mA **Operating Temperature Range:** -40°C ~ 125°C

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
TD Series						
15	302-1375-ND	12.85	12.00	11.14	10.57	TD-015
20	302-1376-ND	12.85	12.00	11.14	10.57	TD-020
25	302-1377-ND	12.85	12.00	11.14	10.57	TD-025
30	302-1378-ND	12.85	12.00	11.14	10.57	TD-030
35	302-1379-ND	12.85	12.00	11.14	10.57	TD-035
40	302-1380-ND	12.85	12.00	11.14	10.57	TD-040
45	302-1381-ND	12.85	12.00	11.14	10.57	TD-045
50	302-1382-ND	12.85	12.00	11.14	10.57	TD-050
55	302-1383-ND	12.85	12.00	11.14	10.57	TD-055
60	302-1384-ND	12.85	12.00	11.14	10.57	TD-060
65	302-1385-ND	12.85	12.00	11.14	10.57	TD-065
70	302-1386-ND	12.85	12.00	11.14	10.57	TD-070
75	302-1387-ND	12.85	12.00	11.14	10.57	TD-075
80	302-1388-ND	12.85	12.00	11.14	10.57	TD-080
85	302-1389-ND	12.85	12.00	11.14	10.57	TD-085
90	302-1390-ND	12.85	12.00	11.14	10.57	TD-090
95	302-1391-ND	12.85	12.00	11.14	10.57	TD-095
100	302-1392-ND	12.85	12.00	11.14	10.57	TD-100
105	302-1393-ND	12.85	12.00	11.14	10.57	TD-105
110	302-1394-ND	12.85	12.00	11.14	10.57	TD-110
115	302-1395-ND	12.85	12.00	11.14	10.57	TD-115
120	302-1396-ND	12.85	12.00	11.14	10.57	TD-120
125	302-1397-ND	12.85	12.00	11.14	10.57	TD-125
9001 Series						
50	302-1398-ND	13.23	12.35	11.47	10.88	9001-050
75	302-1399-ND	13.23	12.35	11.47	10.88	9001-075
100	302-1400-ND	13.23	12.35	11.47	10.88	9001-100
125	302-1401-ND	13.23	12.35	11.47	10.88	9001-125
150	302-1402-ND	13.23	12.35	11.47	10.88	9001-150

E-T-A Circuit Protection & Control Thermal Circuit Breakers

104, 106 and 1140 Series

Voltage Rating: AC 240V; DC 48V **Ambient Temperature:** -20°C ~ 60°C

Dimensions in mm

Fig. 1 — PCB Mount

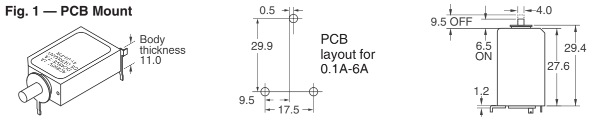

Fig. 2 — Panel Mount *(Includes Bulk Hardware)*

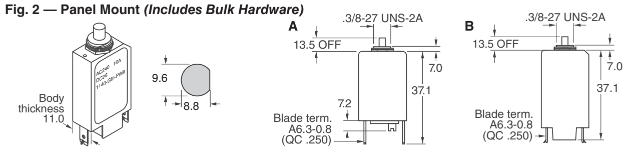

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Fig. 1 — 104 Series - Horizontal PCB Mount - Push to Reset						
0.5	302-1092-ND	13.84	12.92	12.00	11.38	104-PR-0.5A
1	302-1095-ND	13.84	12.92	12.00	11.38	104-PR-1A
1.2	302-1096-ND	13.84	12.92	12.00	11.38	104-PR-1.2A
2	302-1099-ND	13.84	12.92	12.00	11.38	104-PR-2A
3	302-1101-ND	13.84	12.92	12.00	11.38	104-PR-3A
5	302-1105-ND	13.84	12.92	12.00	11.38	104-PR-5A
7	302-1107-ND†	13.84	12.92	12.00	11.38	104-PR-7A
8	302-1108-ND†	13.84	12.92	12.00	11.38	104-PR-8A
10	302-1109-ND†	13.84	12.92	12.00	11.38	104-PR-10A
Fig. 2A — 106 Series - Panel Mount - Push to Reset						
0.1	302-1000-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.1A
0.2	302-1001-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.2A
0.3	302-1002-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.3A
0.4	302-1003-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.4A
0.5	302-1004-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.5A
0.8	302-1006-ND	13.84	12.92	12.00	11.38	106-M2-P10-0.8A
1	302-1007-ND	13.84	12.92	12.00	11.38	106-M2-P10-1A
1.5	302-1009-ND	13.84	12.92	12.00	11.38	106-M2-P10-1.5A
1.8	302-1010-ND	13.84	12.92	12.00	11.38	106-M2-P10-1.8A
2	302-1011-ND	13.84	12.92	12.00	11.38	106-M2-P10-2A
2.5	302-1012-ND	13.84	12.92	12.00	11.38	106-M2-P10-2.5A
3	302-1013-ND	13.84	12.92	12.00	11.38	106-M2-P10-3A
5	302-1309-ND	13.84	12.92	12.00	11.38	106-M2-P10-5A
10	302-1310-ND	13.84	12.92	12.00	11.38	106-M2-P10-10A
Fig. 2B — 1140 Series - Panel Mount - Push to Reset						
10	302-1020-ND	13.84	12.92	12.00	11.38	1140-G111-P1M1-10A
12	302-1021-ND	13.84	12.92	12.00	11.38	1140-G111-P1M1-12A
15	302-1023-ND	13.84	12.92	12.00	11.38	1140-G111-P1M1-15A

† Requires different PCB layout

PC Board Mount 1410-L2 Series

Voltage rating: AC 250V; DC 50V **Ambient temperature:** -20°C ~ 100°C

PCB Mount

Dimensions in mm

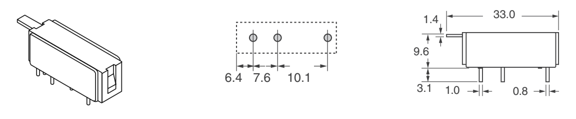

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Thermal Breaker - PCB Mount - Press to Reset						
0.63	302-1025-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-0.63A
1	302-1027-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-1A
1.25	302-1028-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-1.25A
1.5	302-1029-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-1.5A
2	302-1032-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-2A
2.5	302-1033-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-2.5A
3.15	302-1034-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-3.15A
4	302-1035-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-4A
4.5	302-1036-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-4.5A
5	302-1037-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-5A
6.3	302-1038-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-6.3A
8	302-1039-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-8A
10	302-1031-ND	9.50	8.87	8.23	7.81	1410-L210-L2F1-S02-10A

Push-Push Switch/Thermal Circuit Breakers -

2-5700 Series

Voltage Rating: 250VAC, 50VDC

Ambient Temperature: -20°C ~ 60°C

Dimensions in mm

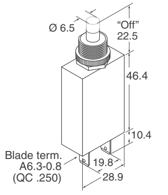

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
1	302-1293-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-1A
2	302-1294-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-2A
5	302-1297-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-5A
10	302-1299-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-10A
15	302-1300-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-15A
20	302-1301-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-20A
25	302-1302-ND	18.88	17.62	16.37	15.53	2-5700-IG1-P10-DD-25A

Thermal Circuit Breakers -

1658 Series

Manual reset, cycling trip free mechanism. **Voltage Rating:** 240VAC; 28VDC (2HP motor rating) **Terminals:** Q.C. .250" blade **Ambient Temperature:** -20°C ~ 60°C, <= 7A -20°C ~ 40°C

Dimensions in mm

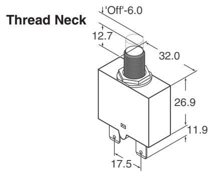

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
3/8" - 27 Thread Neck with PAL Nut - Push to Reset						
5	302-1257-ND	3.31	2.55	2.40	2.25	1658-G21-01-P10-5A
10	302-1261-ND	3.31	2.55	2.40	2.25	1658-G21-01-P10-10A
15	302-1264-ND	3.31	2.55	2.40	2.25	1658-G21-01-P10-15A
20	302-1266-ND	3.47	2.67	2.52	2.36	1658-G21-01-P10-20A
25	302-1267-ND	3.47	2.67	2.52	2.36	1658-G21-01-P10-25A
30	302-1268-ND	3.92	3.01	2.84	2.67	1658-G21-01-P10-30A
35	302-1269-ND	3.92	3.01	2.84	2.67	1658-G21-01-P10-35A

Single Pole Thermal Circuit Breaker/ Switches - 3131 Series

Combination of single pole circuit breaker and On/Off switch with soft-touch rocker actuation. Contoured rockers are sold separately and are available with a choice of colors and legends. The 3131 is sealed to provide IP66 rated water splash protection.

Voltage Ratings: AC 240V; DC 28V

Terminals: Q.C. .250" blade

Dimensions in mm

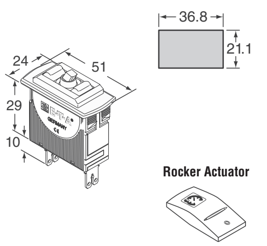

Current (A)	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
On/Off Latching Function — Switch/Circuit Breakers						
1	302-1344-ND	20.57	19.20	17.83	16.91	3131-AF1PT-000000-000-1A
5	302-1347-ND	16.45	15.36	14.26	13.53	3131-AF1PT-000000-000-5A
10	302-1342-ND	16.45	15.36	14.26	13.53	3131-AF1PT-000000-000-10A
15	302-1343-ND	16.45	15.36	14.26	13.53	3131-AF1PT-000000-000-15A
20	302-1345-ND	16.45	15.36	14.26	13.53	3131-AF1PT-000000-000-20A

Rocker Actuator - X3131 Series

Description	Digi-Key Part No.	Price Each 1	10	25	50	E-T-A Part No.
Black Rocker, No Legend	302-1350-ND	2.21	2.06	1.92	1.82	X3131-WB0000

Panasonic® Power / Push Switches

* UL, CSA, BEAB, SEMKO, VDE, SEV, FIMKO, NEMKO, DEMKO, APPROVED

Fig. 1

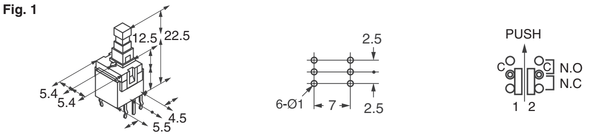

Fig. 2

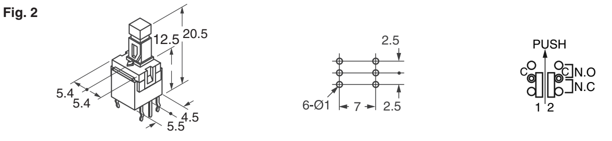

Fig. 3

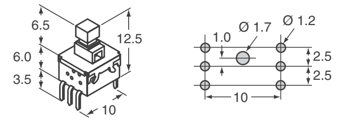

Fig. 4

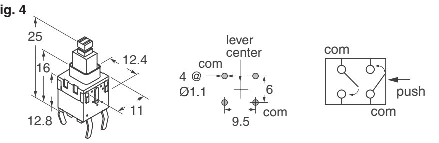

Fig. 5

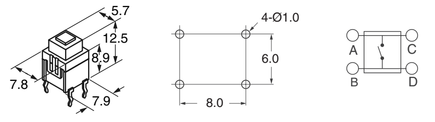

Fig. 6

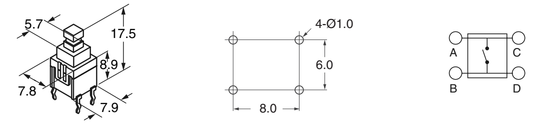

Fig. 7

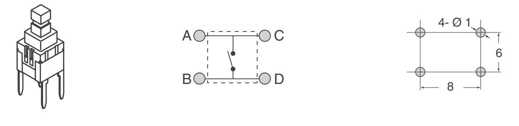

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11163S-ND	1.84	1.53	1.29	1.11	—	ESB-30A105
2	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11164S-ND	1.84	1.53	1.29	1.11	—	ESB-30B102
3	Push Switch DPDT, 200mA, 14VDC	P13353S-ND	1.51	1.27	1.06	.91	.76	ESB-33133
4	Push Switch DPST 3A, 12VDC	P8102S-ND	2.31	1.93	1.62	1.39	1.16	ESB-32101A
5	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P11161S-ND	1.36	1.14	.96	.82	—	ESE-20C321
5	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12344S-ND	1.36	1.14	.96	.82	.69	ESE-20C323
5	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12346S-ND	1.36	1.14	.96	.82	.69	ESE-20C343
5	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12349S-ND	1.36	1.14	.96	.82	.69	ESE-20C421
5	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12345S-ND	1.36	1.14	.96	.82	.69	ESE-20C423
5	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12347S-ND	1.36	1.14	.96	.82	.69	ESE-20C443
6	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P11162S-ND	1.36	1.14	.96	.82	—	ESE-20C441
	Approved for Automobile Use							
7	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12354S-ND	1.36	1.14	.96	.82	.69	ESE-20D321
7	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12350S-ND	1.36	1.14	.96	.82	.69	ESE-20D323
7	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12356S-ND	1.36	1.14	.96	.82	.69	ESE-20D341
7	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12352S-ND	1.36	1.14	.96	.82	.69	ESE-20D343
7	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12355S-ND	1.36	1.14	.96	.82	.69	ESE-20D421
7	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12351S-ND	1.36	1.14	.96	.82	.69	ESE-20D423
7	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12357S-ND	1.36	1.14	.96	.82	.69	ESE-20D441
7	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12353S-ND	1.36	1.14	.96	.82	.69	ESE-20D443

Slide Switches

Fig. 1

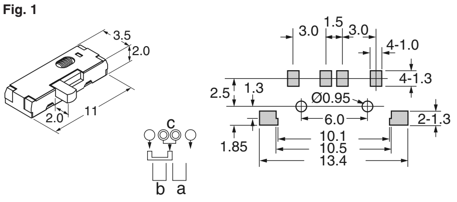

Fig. 2

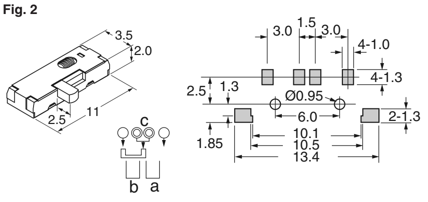

Fig. 3

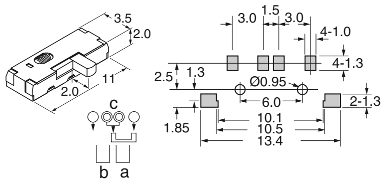

Fig. 4

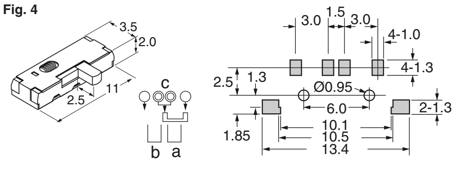

Fig. 5

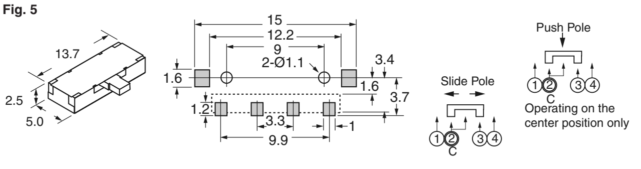

Fig. 6

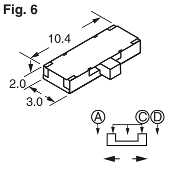

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
1	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11157SCT-ND	1.59	1.33	1.12	.96	P11157STR-ND	2,000	795.00/M	ESD-165225
2	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11158SCT-ND	1.59	1.33	1.12	.96	—	—	—	ESD-165226
3	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11159SCT-ND	1.59	1.33	1.12	.96	—	—	—	ESD-165235
4	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11160SCT-ND	1.59	1.33	1.12	.96	P11160STR-ND	2,000	795.00/M	ESD-165236
5	SMD Multi Function Slide + Push	10VDC, 1mA	40gf	P11155SCT-ND	4.54	3.79	3.19	2.73	P11155STR-ND	1,400	2272.00/M	ESE-15700
6	SMD Multi Function Slide	10VDC, 1mA	125gf	P11156SCT-ND	1.36	1.14	.96	.82	—	—	—	ESE-15800

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic

Surface Mount Tactile/Light Touch Switches

CIRCUIT DIAGRAM 1

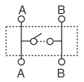

CIRCUIT DIAGRAM 2

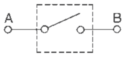

Fig. 1

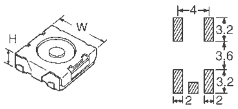

Fig. 2

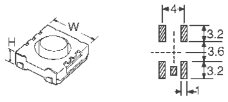

With or Without Grounding Terminal

Fig. 3

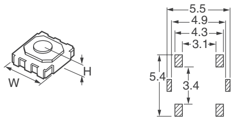

Fig. 4

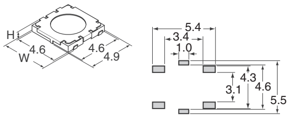

Fig. 5

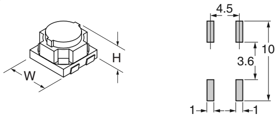

Fig. 6

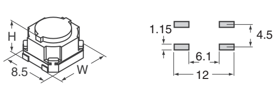

Fig. 7

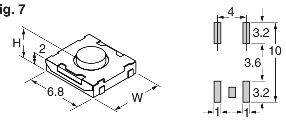

With or Without Grounding Terminal

Fig. 8

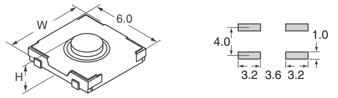

Fig. 9

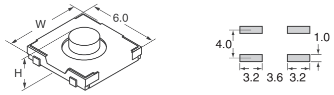

Fig. 10

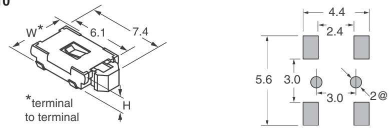

With or Without Mounting Boss

Fig. 11

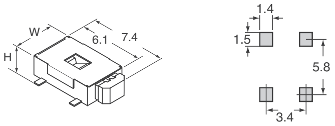

Fig. 12

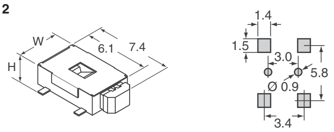

Fig. 13

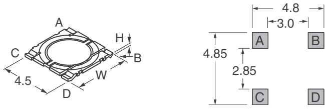

Fig.	Description	Circuit Dia.	Dim. (mm) H	Dim. (mm) W	Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
1	6mm Standard	1	2	6.2	130gf	15	20	100K	P12246SCT-ND	.89	.74	.62	—	—	—	EVQ-QFY02K
2	6mm Standard with Ground Terminal	1	3.1	6.4	160gf	15	20	100K	P12251SCT-ND	.85	.71	.60	—	—	—	EVQ-PHN03T
	6mm Standard with Ground Terminal	1	3.1	6.4	260gf	15	20	50K	P12252SCT-ND	.85	.71	.60	—	—	—	EVQ-PHK03T
3	4.9mm Low Profile (1.5mm) with Actuator	1	1.5	4.9	100gf	12	50	500K	P8045SCT-ND◆	.83	.70	.59	P8045STR-ND◆	5,000	387.00/M	EVQ-PLDA15
	4.9mm Low Profile (1.5mm) with Actuator	1	1.5	4.9	160gf	12	50	500K	P8046SCT-ND◆†	.53	.45	.38	P8046STR-ND◆	5,000	248.00/M	EVQ-PLHA15
	4.9mm Low Profile (1.5mm) with Actuator	1	1.5	4.9	260gf	12	50	500K	P8047SCT-ND◆	.66	.56	.47	P8047STR-ND◆	5,000	310.00/M	EVQ-PLMA15
4	4.8mm Low Profile (0.8mm) without Actuator	1	0.8	4.9	100gf	15	20	500K	P12274SCT-ND◆	.67	.56	.47	P12274STR-ND◆	5,000	312.00/M	EVQ-PLBA08
	4.8mm Low Profile (0.8mm) without Actuator	1	0.8	4.9	160gf	15	20	500K	P12275SCT-ND◆	.48	.40	.34	P12275STR-ND◆	5,000	223.00/M	EVQ-PLFA08
	4.8mm Low Profile (0.8mm) without Actuator	1	0.8	4.9	260gf	15	20	200K	P12276SCT-ND◆	.67	.56	.47	P12276STR-ND◆	5,000	312.00/M	EVQ-PLKA08
5	6mm Long Travel (1.3mm) for Automotive	1	5	6.0	200gf	12	50	100K	P12245SCT-ND◆	1.04	.87	.73	P12245STR-ND◆	2,000	484.00/M	EVQ-P1F05M
	6mm Long Travel (1.0mm) for Automotive	1	5	6.0	220gf	12	50	100K	P12244SCT-ND◆	1.04	.87	.73	P12244STR-ND◆	2,000	484.00/M	EVQ-P1K05M
	6mm Long Travel (1.3mm) for Automotive	1	5	6.0	250gf	12	50	30K	P10888SCT-ND◆†	.74	.62	.52	P10888STR-ND◆	2,000	344.00/M	EVQ-P1D05M
	6mm Long Travel (1.3mm) for Automotive	1	5	6.0	350gf	12	50	30K	P13586SCT-ND◆	.91	.77	.65	P13586STR-ND◆	2,000	427.00/M	EVQ-9P105M
6	8mm Long Travel (1mm) for Automotive	1	6.5	8.5	500gf	12	50	100K	P12969SCT-ND◆	1.14	.95	.80	P12969STR-ND◆	1,000	569.00	EVQ-Q1E06K
7	6mm Standard	1	2	6.2	130gf	15	20	1M	P13608SCT-ND◆	.51	.43	.36	P13608STR-ND◆	4,000	257.00/M	EVQ-QXP01W
	6mm Standard	1	2	6.2	160gf	15	20	1M	P13611SCT-ND◆	.72	.61	.51	P13611STR-ND◆	4,000	361.00/M	EVQ-QXS01W
	6mm Standard	1	2	6.2	260gf	15	20	10K	P12257SCT-ND◆	.72	.61	.51	—	—	—	EVQ-QWT01W
	6mm Standard	1	2	6.2	260gf	15	20	100K	P13614SCT-ND◆	.72	.61	.51	P13614STR-ND◆	4,000	361.00/M	EVQ-QXT01W
	6mm Standard	1	2.5	6.2	130gf	15	20	1M	P13609SCT-ND◆	.72	.61	.51	P13609STR-ND◆	2,000	361.00/M	EVQ-QXP02W
	6mm Standard	1	2.5	6.2	160gf	15	20	1M	P13612SCT-ND◆	.51	.43	.36	P13612STR-ND◆	2,000	257.00/M	EVQ-QXS02W
	6mm Standard	1	2.5	6.2	260gf	15	20	100K	P13615SCT-ND◆	.72	.61	.51	P13615STR-ND◆	2,000	361.00/M	EVQ-QXT02W
	6mm Standard	1	3.1	6.2	130gf	15	20	1M	P13610SCT-ND◆	.72	.61	.51	P13610STR-ND◆	2,000	361.00/M	EVQ-QXP03W
	6mm Standard	1	3.1	6.2	160gf	15	20	1M	P13613SCT-ND◆	.72	.61	.51	P13613STR-ND◆	2,000	361.00/M	EVQ-QXS03W
	6mm Standard	1	3.1	6.2	260gf	15	20	100K	P13616SCT-ND◆	.51	.43	.36	P13616STR-ND◆	2,000	257.00/M	EVQ-QXT03W
	6mm Standard with Ground Terminal	1	2	6.2	130gf	15	20	100K	P12259SCT-ND	.83	.69	.58	—	—	—	EVQ-QWM01W
	6mm Standard with Ground Terminal	1	2	6.2	130gf	15	20	1M	P13602SCT-ND◆	.82	.69	.58	P13602STR-ND◆	4,000	412.00/M	EVQ-QXMO1W
	6mm Standard with Ground Terminal	1	2	6.2	160gf	15	20	100K	P12262SCT-ND	.83	.69	.58	P12262STR-ND	4,000	412.00/M	EVQ-QWN01W
	6mm Standard with Ground Terminal	1	2	6.2	160gf	15	20	1M	P13605SCT-ND◆	.82	.69	.58	P13605STR-ND◆	4,000	412.00/M	EVQ-QXN01W
	6mm Standard with Ground Terminal	1	2	6.2	260gf	15	20	10K	P12265SCT-ND	.83	.69	.58	—	—	—	EVQ-QWK01W
	6mm Standard with Ground Terminal	1	2	6.2	260gf	15	20	100K	P13599SCT-ND◆	.82	.69	.58	P13599STR-ND◆	4,000	412.00/M	EVQ-QXK01W
	6mm Standard with Ground Terminal	1	2.5	6.2	130gf	15	20	100K	P12260SCT-ND	.83	.69	.58	—	—	—	EVQ-QWM02W
	6mm Standard with Ground Terminal	1	2.5	6.2	130gf	15	20	1M	P13603SCT-ND◆	.82	.69	.58	P13603STR-ND◆	2,000	412.00/M	EVQ-QXM02W
	6mm Standard with Ground Terminal	1	2.5	6.2	160gf	15	20	100K	P12263SCT-ND	.83	.69	.58	—	—	—	EVQ-QWN02W
	6mm Standard with Ground Terminal	1	2.5	6.2	160gf	15	20	1M	P13606SCT-ND◆	1.10	.83	.72	P13606STR-ND◆	2,000	412.00/M	EVQ-QXN02W
	6mm Standard with Ground Terminal	1	2.5	6.2	260gf	15	20	10K	P12266SCT-ND	.83	.69	.58	—	—	—	EVQ-QWK02W
	6mm Standard with Ground Terminal	1	2.5	6.2	260gf	15	20	100K	P13600SCT-ND◆	.82	.69	.58	P13600STR-ND◆	2,000	412.00/M	EVQ-QXK02W
	6mm Standard with Ground Terminal	1	3.1	6.2	130gf	15	20	100K	P12261SCT-ND◆	.83	.69	.58	—	—	—	EVQ-QWM03W
	6mm Standard with Ground Terminal	1	3.1	6.2	130gf	15	20	1M	P13604SCT-ND◆	.82	.69	.58	P13604STR-ND◆	2,000	412.00/M	EVQ-QXM03W
	6mm Standard with Ground Terminal	1	3.1	6.2	160gf	15	20	1M	P13607SCT-ND◆	.82	.69	.58	P13607STR-ND◆	2,000	412.00/M	EVQ-QXN03W
	6mm Standard with Ground Terminal	1	3.1	6.2	260gf	15	20	10K	P12267SCT-ND	.83	.69	.58	—	—	—	EVQ-QWK03W
	6mm Standard with Ground Terminal	1	3.1	6.2	260gf	15	20	100K	P13601SCT-ND◆	.82	.69	.58	P13601STR-ND◆	2,000	412.00/M	EVQ-QXK03W
8	6mm Standard Overstroke Travel	1	2.5	6.6	60gf	15	20	2M	P12965SCT-ND◆	.39	.33	.28	P12965STR-ND◆	2,000	181.00/M	EVQ-P0N02B
	6mm Overstroke Travel w/Ground Terminal	1	2.5	6.6	60gf	15	20	2M	P12966SCT-ND◆	.39	.33	.28	P12966STR-ND◆	2,000	181.00/M	EVQ-P0P02B
	6mm Standard Overstroke Travel	1	2.5	6.6	100gf	15	20	1M	P12967SCT-ND◆	.39	.33	.28	P12967STR-ND◆	2,000	181.00/M	EVQ-P0Q02Q
	6mm Overstroke Travel w/Ground Terminal	1	2.5	6.6	100gf	15	20	1M	P12968SCT-ND◆	.39	.33	.28	P12968STR-ND◆	2,000	181.00/M	EVQ-P0S02Q
9	6mm Standard	1	2.0	6.6	50gf	15	20	2M	P12930SCT-ND◆	.30	.25	.21	P12930STR-ND◆	4,000	138.00/M	EVQ-Q2B01W
	6mm Standard	1	2.5	6.6	50gf	15	20	2M	P12931SCT-ND◆	.30	.25	.21	P12931STR-ND◆	2,000	138.00/M	EVQ-Q2B02W
	6mm Standard	1	3.1	6.6	50gf	15	20	2M	P12932SCT-ND◆	.30	.25	.21	P12932STR-ND◆	2,000	138.00/M	EVQ-Q2B03W
	6mm standard with Ground Terminal	1	2.0	6.6	50gf	15	20	2M	P12933SCT-ND◆	.30	.25	.21	P12933STR-ND◆	4,000	138.00/M	EVQ-Q2D01W
	6mm standard with Ground Terminal	1	2.5	6.6	50gf	15	20	2M	P12934SCT-ND◆	.30	.25	.21	P12934STR-ND◆	2,000	138.00/M	EVQ-Q2D02W
	6mm Standard with Ground Terminal	1	3.1	6.6	50gf	15	20	2M	P12935SCT-ND◆	.30	.25	.21	P12935STR-ND◆	2,000	138.00/M	EVQ-Q2D03W

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted.

(Continued)

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 14

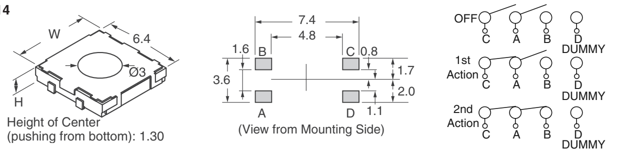

Fig. 15

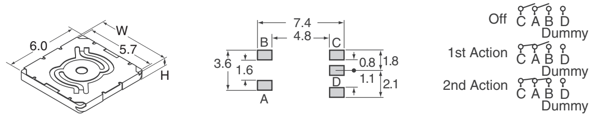

Fig. 16

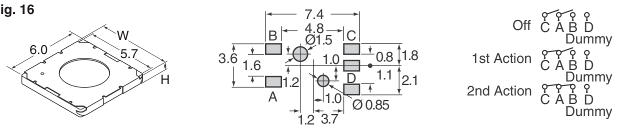

Fig. 17

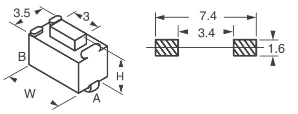

Fig. 18

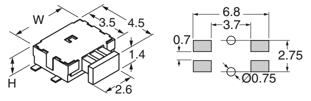

Fig. 19

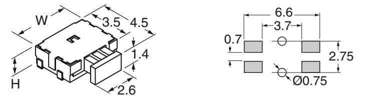

Fig. 20

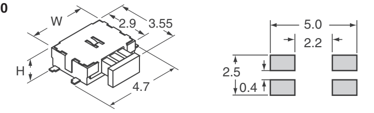

Fig. 21

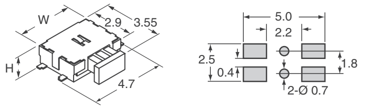

Fig. 22

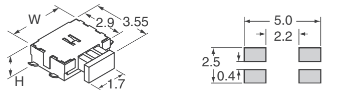

Fig. 23

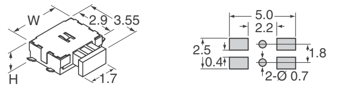

Fig. 24

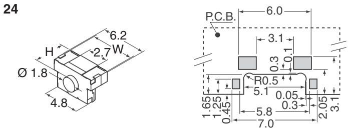

Fig.	Description	Circuit Dia.	Dim. (mm)		Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
			H	W						1	10	100		Qty.	Pricing	
9	6mm Standard	1	2.0	6.6	100gf	15	20	1M	P12936SCT-ND◆	.30	.25	.21	P12936STR-ND◆	4,000	138.00/M	EVQ-Q2F01W
	6mm Standard	1	2.5	6.6	100gf	15	20	1M	P12970SCT-ND◆	.30	.25	.21	P12970STR-ND◆	2,000	138.00/M	EVQ-Q2F02W
	6mm Standard	1	3.1	6.6	100gf	15	20	1M	P12937SCT-ND◆	.30	.25	.21	P12937STR-ND◆	2,000	138.00/M	EVQ-Q2F03W
	6mm Standard with Ground Terminal	1	2.0	6.6	100gf	15	20	1M	P12938SCT-ND◆	.30	.25	.21	P12938STR-ND◆	4,000	138.00/M	EVQ-Q2H01W
	6mm Standard with Ground Terminal	1	2.5	6.6	100gf	15	20	1M	P12939SCT-ND◆	.30	.25	.21	P12939STR-ND◆	2,000	138.00/M	EVQ-Q2H02W
	6mm Standard with Ground Terminal	1	3.1	6.6	100gf	15	20	1M	P12940SCT-ND◆	.30	.25	.21	P12940STR-ND◆	2,000	138.00/M	EVQ-Q2H03W
	6mm Standard	1	2.0	6.6	130gf	15	20	1M	P12941SCT-ND◆	.30	.25	.21	P12941STR-ND◆	4,000	138.00/M	EVQ-Q2K01W
	6mm Standard	1	2.5	6.6	130gf	15	20	1M	P12942SCT-ND◆	.30	.25	.21	P12942STR-ND◆	2,000	138.00/M	EVQ-Q2K02W
	6mm Standard	1	3.1	6.6	130gf	15	20	1M	P12943SCT-ND◆	.30	.25	.21	P12943STR-ND◆	2,000	138.00/M	EVQ-Q2K03W
	6mm Standard with Ground Terminal	1	2.0	6.6	130gf	15	20	1M	P12944SCT-ND◆	.30	.25	.21	P12944STR-ND◆	4,000	138.00/M	EVQ-Q2M01W
	6mm Standard with Ground Terminal	1	2.5	6.6	130gf	15	20	1M	P12945SCT-ND◆	.30	.25	.21	P12945STR-ND◆	2,000	138.00/M	EVQ-Q2M02W
	6mm Standard with Ground Terminal	1	3.1	6.6	130gf	15	20	1M	P12946SCT-ND◆	.30	.25	.21	P12946STR-ND◆	2,000	138.00/M	EVQ-Q2M03W
	6mm Standard	1	2.0	6.6	160gf	15	20	1M	P12947SCT-ND◆	.30	.25	.21	P12947STR-ND◆	4,000	138.00/M	EVQ-Q2P01W
	6mm Standard	1	2.5	6.6	160gf	15	20	1M	P12948SCT-ND◆	.30	.25	.21	P12948STR-ND◆	2,000	138.00/M	EVQ-Q2P02W
	6mm Standard	1	3.1	6.6	160gf	15	20	1M	P12949SCT-ND◆	.30	.25	.21	P12949STR-ND◆	2,000	138.00/M	EVQ-Q2P03W
	6mm Standard with Ground Terminal	1	2.0	6.6	160gf	15	20	1M	P12950SCT-ND◆	.30	.25	.21	P12950STR-ND◆	4,000	138.00/M	EVQ-Q2S01W
	6mm Standard with Ground Terminal	1	2.5	6.6	160gf	15	20	1M	P12951SCT-ND◆†	.30	.25	.21	P12951STR-ND◆	2,000	138.00/M	EVQ-Q2S02W
	6mm Standard with Ground Terminal	1	3.1	6.6	160gf	15	20	1M	P12952SCT-ND◆	.30	.25	.21	P12952STR-ND◆	2,000	138.00/M	EVQ-Q2S03W
	6mm Standard	1	2.0	6.6	260gf	15	20	200K	P12953SCT-ND◆	.30	.25	.21	P12953STR-ND◆	4,000	138.00/M	EVQ-Q2U01W
	6mm Standard	1	2.5	6.6	260gf	15	20	200K	P12954SCT-ND◆	.30	.25	.21	P12954STR-ND◆	2,000	138.00/M	EVQ-Q2U02W
	6mm Standard	1	3.1	6.6	260gf	15	20	200K	P12955SCT-ND◆	.30	.25	.21	P12955STR-ND◆	2,000	138.00/M	EVQ-Q2U03W
	6mm Standard with Ground Terminal	1	2.0	6.6	260gf	15	20	200K	P12956SCT-ND◆	.30	.25	.21	P12956STR-ND◆	4,000	138.00/M	EVQ-Q2W01W
	6mm Standard with Ground Terminal	1	2.5	6.6	260gf	15	20	200K	P12957SCT-ND◆	.30	.25	.21	P12957STR-ND◆	2,000	138.00/M	EVQ-Q2W02W
	6mm Standard with Ground Terminal	1	3.1	6.6	260gf	15	20	200K	P12958SCT-ND◆	.30	.25	.21	P12958STR-ND◆	2,000	138.00/M	EVQ-Q2W03W
	6mm Standard	1	2.0	6.6	350gf	15	20	100K	P12959SCT-ND◆	.30	.25	.21	P12959STR-ND◆	4,000	138.00/M	EVQ-Q2Y01W
	6mm Standard	1	2.5	6.6	350gf	15	20	100K	P12960SCT-ND◆	.30	.25	.21	P12960STR-ND◆	2,000	138.00/M	EVQ-Q2Y02W
	6mm Standard	1	3.1	6.6	350gf	15	20	100K	P12961SCT-ND◆	.30	.25	.21	P12961STR-ND◆	2,000	138.00/M	EVQ-Q2Y03W
	6mm Standard with Ground Terminal	1	2.0	6.6	350gf	15	20	100K	P12962SCT-ND◆	.30	.25	.21	P12962STR-ND◆	4,000	138.00/M	EVQ-Q2201W
	6mm Standard with Ground Terminal	1	2.5	6.6	350gf	15	20	100K	P12963SCT-ND◆	.30	.25	.21	P12963STR-ND◆	2,000	138.00/M	EVQ-Q2202W
	6mm Standard with Ground Terminal	1	3.1	6.6	350gf	15	20	100K	P12964SCT-ND◆	.30	.25	.21	P12964STR-ND◆	2,000	138.00/M	EVQ-Q2203W
10	Rt. Angle Long Body (7mm) w/ J-Bent Leads	1	1.8	4	160gf	12	50	100K	P12318SCT-ND◆	.62	.52	.44	P12318STR-ND◆	4,000	289.00/M	EVQ-PSC02K
	Rt. Angle Long Body (7mm) w/ J-Bent Leads	1	1.8	4	220gf	12	50	100K	P12319SCT-ND◆	.54	.46	.38	P12319STR-ND◆	4,000	252.00/M	EVQ-PSG02K
	Right Angle with J-Bent & Positioning Boss	1	1.8	4	160gf	12	50	50K	P8088SCT-ND◆	.54	.46	.38	P8088STR-ND◆	4,000	252.00/M	EVQ-PSD02K
	Right Angle with J-Bent & Positioning Boss	1	1.8	4	220gf	12	50	50K	P8089SCT-ND◆	.49	.41	.35	P8089STR-ND◆	4,000	228.00/M	EVQ-PSH02K
11	Right Angle Long Body with Straight Leads	1	1.8	4	160gf	12	50	100K	P12320SCT-ND◆	.65	.55	.46	P12320STR-ND◆	4,000	354.00/M	EVQ-PSL02K
	Right Angle Long Body with Straight Leads	1	1.8	4	220gf	12	50	100K	P12321SCT-ND◆	.76	.64	.54	P12321STR-ND◆	4,000	354.00/M	EVQ-PSQ02K
12	Right Angle with Straight Leads & Boss	1	1.8	4	160gf	12	50	100K	P12322SCT-ND◆	.76	.64	.54	P12322STR-ND◆	4,000	354.00/M	EVQ-PSM02K
	Right Angle with Straight Leads & Boss	1	1.8	4	220gf	12	50	100K	P12323SCT-ND◆	.76	.64	.54	P12323STR-ND◆	4,000	354.00/M	EVQ-PSR02K
13	Low Profile with 4.5mm Body	1	.55	4.5	160gf	15	20	50K	P8090SCT-ND◆	.35	.29	.25	P8090STR-ND◆	10,000	156.00/M	EVQ-PQHB55
	Low Profile with 4.5mm Body	1	.55	4.5	220gf	15	20	50K	P8091SCT-ND◆	.35	.29	.25	P8091STR-ND◆	10,000	156.00/M	EVQ-PQMB55
14	Double Action, for Camera Shutter	—	1.5	6.2	100/260gf	15	20	100K	P10846SCT-ND◆	.87	.73	.62	—	—	—	EVQ-PWBA15
15	Double Action, for Camera Shutter	2	0.95	6	70/260gf	15	20	30K	P12285SCT-ND◆	.82	.69	.58	P12285STR-ND◆	5,000	403.00/M	EVQ-PR3A10
16	Double Action, for Camera Shutter	2	0.90	6	100/260gf	15	20	30K	P12286SCT-ND◆	.77	.65	.55	P12286STR-ND◆	5,000	361.00/M	EVQ-PRBA09
	Double Action, for Camera Shutter with GND	2	0.90	6	100/260gf	15	20	30K	P12288SCT-ND◆	.86	.72	.61	P12288STR-ND◆	5,000	403.00/M	EVQ-PRDA09
	Double Action, for Camera Shutter with Boss	2	0.90	6	100/260gf	15	20	30K	P12287SCT-ND◆	.77	.65	.55	P12287STR-ND◆	5,000	361.00/M	EVQ-3PRA09
	Double Action, for Camera, with GND & Boss	2	0.90	6	100/260gf	15	20	30K	P12289SCT-ND◆	.86	.72	.61	P12289STR-ND◆	5,000	403.00/M	EVQ-PRHA09
17	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	100gf	12	50	50K	P13593SCT-ND◆	.69	.58	.49	P13593STR-ND◆	2,500	274.00/M	EVQ-PE104K
	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	160gf	12	50	50K	P13597SCT-ND◆	.43	.36	.30	P13597STR-ND◆	2,500	198.00/M	EVQ-PNF04M
	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	240gf	12	50	30K	P13595SCT-ND◆	.60	.50	.42	P13595STR-ND◆	2,500	280.00/M	EVQ-5PN04K
	6x3.5mm Narrow Body with Long Post	2	5.0	6	100gf	12	50	50K	P13594SCT-ND◆	.69	.58	.49	P13594STR-ND◆	2,000	323.00/M	EVQ-PE105K
	6x3.5mm Narrow Body with Long Post	2	5.0	6	160gf	12	50	50K	P13598SCT-ND◆	.69	.58	.49	P13598STR-ND◆	2,000	323.00/M	EVQ-PNF05M
	6x3.5mm Narrow Body with Long Post	2	5.0	6	240gf	12	50	30K	P13596SCT-ND◆	.60	.50	.42	P13596STR-ND◆	2,000	280.00/M	EVQ-5PN05K
18	Right Angle with Straight Leads	1	1.65	4.7	160gf	12	50	100K	P10851SCT-ND◆	.80	.67	.56	P10851STR-ND◆	4,000	373.00/M	EVQ-PUJ02K
	Right Angle w/Straight Leads & Pos. Boss	1	1.65	4.7	160gf	12	50	100K	P10853SCT-ND◆	.57	.48	.40	P10853STR-ND◆	4,000	265.00/M	EVQ-PUL02K
	Right Angle with Straight Leads	1	1.65	4.7	220gf	12	50	100K	P10847SCT-ND◆†	.57	.48	.40	P10847STR-ND◆	4,000	265.00/M	EVQ-PUA02K
	Right Angle w/Straight Leads & Pos. Boss	1	1.65	4.7	220gf	12	50	100K	P10849SCT-ND◆	.57	.48	.40	P10849STR-ND◆	4,000	265.00/M	EVQ-PUC02K
	Right Angle with J-Bent Leads	1	1.65	4.7	160gf	12	50	100K	P10852SCT-ND◆	.83	.70	.59	P10852STR-ND◆	4,000	388.00/M	EVQ-PUK02K
	Right Angle with J-Bent Leads & Pos. Boss	1	1.65	4.7	160gf	12	50	100K	P10854SCT-ND◆	.80	.67	.56	P10854STR-ND◆	4,000	373.00/M	EVQ-PUM02K
19	Right Angle with J-Bent Leads	1	1.65	4.7	220gf	12	50	100K	P10848SCT-ND◆	.80	.67	.56	P10848STR-ND◆	4,000	373.00/M	EVQ-PUB02K
	Right Angle with J-Bent Leads & Pos. Boss	1	1.65	4.7	220gf	12	50	100K	P10850SCT-ND◆	.57	.48	.40	P10850STR-ND◆	4,000	265.00/M	EVQ-PUD02K

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted.

(Continued)

Fig. 25

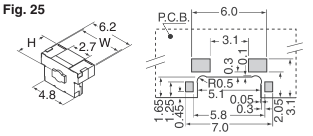

Fig. 26

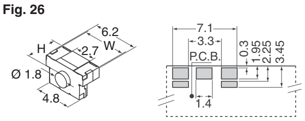

Fig. 27

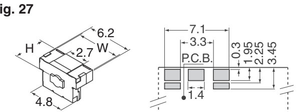

Fig. 28

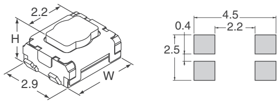

Fig. 29

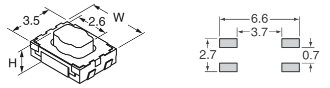

Fig. 30

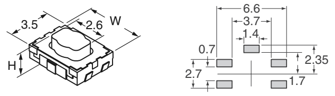

Fig. 31

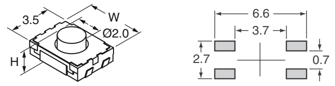

Fig. 32

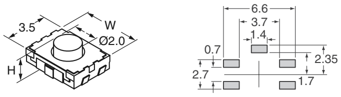

Fig. 33

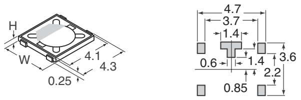

Fig. 34

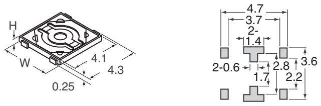

Fig. 35 ***NEW!***

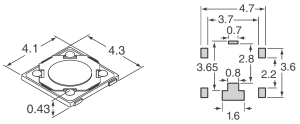

Fig. 36

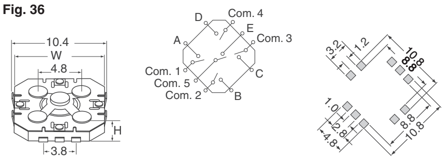

Fig. 37

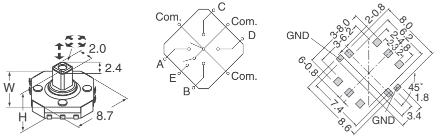

Fig.	Description	Circuit Dia.	Dim. (mm) H	Dim. (mm) W	Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
20	Right Angle Low Profile with Straight Leads	1	1.35	3.5	160gf	12	50	100K	P12278SCT-ND◆	.88	.74	.62	P12278STR-ND◆	5,000	411.00/M	EVQ-P7J01K
	Right Angle Low Profile with Straight Leads	1	1.35	3.5	220gf	12	50	100K	P12277SCT-ND◆†	.88	.74	.62	P12277STR-ND◆	5,000	411.00/M	EVQ-P7A01K
21	Rt. Angle Low Profile w/Straight Leads & Boss	1	1.35	3.5	160gf	12	50	100K	P12280SCT-ND◆	.88	.74	.62	P12280STR-ND◆	5,000	411.00/M	EVQ-P7L01K
	Rt. Angle Low Profile w/Straight Leads & Boss	1	1.35	3.5	220gf	12	50	100K	P12279SCT-ND◆	.88	.74	.62	P12279STR-ND◆	5,000	411.00/M	EVQ-P7C01K
22	Right Angle Low Profile with J-Bent Leads	1	1.35	3.5	160gf	12	50	100K	P12282SCT-ND◆	.88	.74	.62	P12282STR-ND◆	5,000	411.00/M	EVQ-P7K01K
	Right Angle Low Profile with J-Bent Leads	1	1.35	3.5	220gf	12	50	100K	P12281SCT-ND◆	.88	.74	.62	P12281STR-ND◆	5,000	411.00/M	EVQ-P7B01K
23	Rt. Angle Low Profile w/J-Bent Leads & Boss	1	1.35	3.5	160gf	12	50	100K	P12284SCT-ND◆	.88	.74	.62	P12284STR-ND◆	5,000	411.00/M	EVQ-P7M01K
	Rt. Angle Low Profile w/J-Bent Leads & Boss	1	1.35	3.5	220gf	12	50	100K	P12283SCT-ND◆	.88	.74	.62	P12283STR-ND◆	5,000	411.00/M	EVQ-P7D01K
24	Rt. Angle Edge-Mount w/Mid Travel (0.7mm)	2	3.4	5.7	250gf	15	20	500K	P12305SCT-ND◆	1.16	.97	.82	P12305STR-ND◆	2,500	543.00/M	EVQ-P4H03B
	Rt. Angle Edge-Mount w/Mid Travel (0.7mm)	2	3.4	5.7	350gf	15	20	200K	P12306SCT-ND◆	1.16	.97	.82	P12306STR-ND◆	2,500	543.00/M	EVQ-P4K03Q
	Rt. Angle Edge-Mount w/Mid Travel (0.7mm)	2	3.4	5.7	500gf	15	20	200K	P12307SCT-ND◆	1.16	.97	.82	P12307STR-ND◆	2,500	543.00/M	EVQ-P4M03K
25	Right Angle Edge-Mount for Strong Mount Str.	2	3.0	5.7	100gf	15	20	1M	P12308SCT-ND◆	1.12	.94	.79	P12308STR-ND◆	2,500	524.00/M	EVQ-P4003M
	Right Angle Edge-Mount for Strong Mount Str.	2	3.0	5.7	160gf	15	20	1M	P12309SCT-ND◆	1.12	.94	.79	P12309STR-ND◆	2,500	524.00/M	EVQ-P4203M
	Right Angle Edge-Mount for Strong Mount Str.	2	3.0	5.7	240gf	15	20	500K	P12310SCT-ND◆	1.12	.94	.79	P12310STR-ND◆	2,500	524.00/M	EVQ-P4403M
	Right Angle Edge-Mount for Strong Mount Str.	2	3.0	5.7	350gf	15	20	200K	P12311SCT-ND◆	1.12	.94	.79	P12311STR-ND◆	2,500	524.00/M	EVQ-P4603M
26	Right Angle with Mid Travel (0.7mm)	2	3.4	5.7	250gf	15	20	500K	P12312SCT-ND◆	1.12	.94	.79	P12312STR-ND◆	2,500	524.00/M	EVQ-P8H03B
	Right Angle with Mid Travel (0.7mm)	2	3.4	5.7	350gf	15	20	200K	P12313SCT-ND◆	1.12	.94	.79	P12313STR-ND◆	2,500	524.00/M	EVQ-P8K03Q
27	Right Angle Long-Life Type	2	3.0	5.7	100gf	15	20	1M	P12314SCT-ND◆	1.08	.91	.76	P12314STR-ND◆	2,500	505.00/M	EVQ-P8003M
	Right Angle Long-Life Type	2	3.0	5.7	160gf	15	20	1M	P12315SCT-ND◆	1.08	.91	.76	P12315STR-ND◆	2,500	505.00/M	EVQ-P8203M
	Right Angle Long-Life Type	2	3.0	5.7	240gf	15	20	1M	P12316SCT-ND◆	1.08	.91	.76	P12316STR-ND◆	2,500	505.00/M	EVQ-P8403M
	Right Angle Long-Life Type	2	3.0	5.7	350gf	15	20	500K	P12317SCT-ND◆	1.08	.91	.76	P12317STR-ND◆	2,500	505.00/M	EVQ-P8603M
28	3.5x2.99mm with J-Bent Leads	1	1.7	3.5	100gf	15	20	1M	P13347SCT-ND◆†	1.00	.84	.70	P13347STR-ND◆	5,000	466.00/M	EVP-AA002K
	3.5x2.99mm with J-Bent Leads	1	1.7	3.5	160gf	15	20	200K	P13348SCT-ND◆	1.00	.84	.70	P13348STR-ND◆	5,000	466.00/M	EVP-AA202K
	3.5x2.99mm with J-Bent Leads	1	1.7	3.5	240gf	15	20	200K	P13349SCT-ND◆	1.00	.84	.70	P13349STR-ND◆	5,000	466.00/M	EVP-AA402W
	3.5x2.99mm with J-Bent Leads	1	1.7	3.5	350gf	15	20	200K	P13350SCT-ND◆	1.00	.84	.70	P13350STR-ND◆	5,000	466.00/M	EVP-AA602W
29	4.7x3.5mm with J-Bent Leads	1	2.1	4.7	100gf	15	20	1M	P12296SCT-ND◆	.98	.82	.69	P12296STR-ND◆	4,000	457.00/M	EVQ-P2002M
	4.7x3.5mm with J-Bent Leads	1	2.1	4.7	160gf	15	20	1M	P12298SCT-ND◆	.98	.82	.69	P12298STR-ND◆	4,000	457.00/M	EVQ-P2202M
	4.7x3.5mm with J-Bent Leads	1	2.1	4.7	240gf	15	20	500K	P11080SCT-ND◆	.73	.61	.52	P11080STR-ND◆	4,000	341.00/M	EVQ-P2402M
	4.7x3.5mm with J-Bent Leads	1	2.1	4.7	350gf	15	20	200K	P12300SCT-ND◆	.98	.82	.69	P12300STR-ND◆	4,000	457.00/M	EVQ-P2602M
	4.7x3.5mm with J-Bent Leads	1	2.5	4.7	100gf	15	20	1M	P12297SCT-ND◆	.98	.82	.69	P12297STR-ND◆	4,000	457.00/M	EVQ-P2002W
	4.7x3.5mm with J-Bent Leads	1	2.5	4.7	160gf	15	20	1M	P12299SCT-ND◆†	.98	.82	.69	P12299STR-ND◆	4,000	457.00/M	EVQ-P2202W
	4.7x3.5mm with J-Bent Leads	1	2.5	4.7	240gf	15	20	500K	P11081SCT-ND◆	.73	.61	.52	P11081STR-ND◆	4,000	341.00/M	EVQ-P2402W
	4.7x3.5mm with J-Bent Leads	1	2.5	4.7	350gf	15	20	200K	P12301SCT-ND◆	.98	.82	.69	P12301STR-ND◆	4,000	457.00/M	EVQ-P2602W
30	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.1	4.7	100gf	15	20	1M	P12290SCT-ND◆	1.08	.91	.76	P12290STR-ND◆	4,000	505.00/M	EVQ-P2P02M
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.1	4.7	160gf	15	20	1M	P12292SCT-ND◆	1.08	.91	.76	P12292STR-ND◆	4,000	505.00/M	EVQ-P2R02M
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.1	4.7	240gf	15	20	500K	P11082SCT-ND◆	.81	.68	.57	P11082STR-ND◆	4,000	377.00/M	EVQ-P2T02M
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.1	4.7	350gf	15	20	200K	P12294SCT-ND◆	1.08	.91	.76	P12294STR-ND◆	4,000	505.00/M	EVQ-P2V02M
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.5	4.7	240gf	15	20	500K	P11083SCT-ND◆	1.08	.91	.76	P11083STR-ND◆	4,000	505.00/M	EVQ-P2T02W
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.5	4.7	100gf	15	20	1M	P12291SCT-ND◆	1.08	.91	.76	P12291STR-ND◆	4,000	505.00/M	EVQ-P2P02W
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.5	4.7	160gf	15	20	1M	P12293SCT-ND◆	1.08	.91	.76	P12293STR-ND◆	4,000	505.00/M	EVQ-P2R02W
	4.7x3.5mm w/J-Bent Leads & Ground Term.	1	2.5	4.7	350gf	15	20	200K	P12295SCT-ND◆	1.08	.91	.76	P12295STR-ND◆	4,000	505.00/M	EVQ-P2V02W
31	4.7x3.5mm Mid Travel (0.7mm) w/J-Bent	1	2.5	4.7	250gf	15	20	1M	P12304SCT-ND◆	1.08	.91	.76	P12304STR-ND◆	4,000	505.00/M	EVQ-P2H02B
	4.7x3.5mm Mid Travel (0.7mm) w/J-Bent	1	2.5	4.7	350gf	15	20	500K	P11084SCT-ND◆	.73	.61	.52	P11084STR-ND◆	4,000	341.00/M	EVQ-P2K02Q
32	4.7x3.5mm Mid Travel (0.7mm) w/GND	1	2.5	4.7	250gf	15	20	1M	P12302SCT-ND◆	1.08	.91	.76	P12302STR-ND◆	4,000	505.00/M	EVQ-P2B02B
	4.7x3.5mm Mid Travel (0.7mm) w/GND	1	2.5	4.7	350gf	15	20	500K	P11085SCT-ND◆	1.08	.91	.76	P11085STR-ND◆	4,000	505.00/M	EVQ-P2D02Q
	4.7x3.5mm Mid Travel (0.7mm) w/GND	1	2.5	4.7	500gf	15	20	200K	P12303SCT-ND◆	1.08	.91	.76	P12303STR-ND◆	4,000	505.00/M	EVQ-P2F02K
33	4mm Low Profile w/Dust-Resistant Structure	1	0.35	4.1	160gf	15	20	1M	P12324SCT-ND◆	.42	.36	.30	—	—	—	EVQ-P6EB35
	4mm Low Profile w/Dust-Resistant Structure	1	0.35	4.1	160gf	15	20	1M	P14165CT-ND◆†	.42	.36	.30	P14165TR-ND◆	10,000	190.00/M	EVQ-P6DB35
	4mm Low Profile w/Dust-Resistant Structure	1	0.35	4.1	240gf	15	20	500K	P12325SCT-ND◆	.42	.36	.30	P12325STR-ND◆	10,000	211.00/M	EVQ-P6GB35
	4mm Low Profile w/Dust-Resistant Structure	1	0.35	4.1	240gf	15	20	500K	P14168CT-ND◆	.42	.36	.30	P14168TR-ND◆	10,000	190.00/M	EVQ-P6PB35
34	4mm Low Profile (0.58mm) with Actuator	1	0.58	4.1	160gf	15	20	1M	P14167CT-ND◆	.45	.38	.32	P14167TR-ND◆	10,000	205.00/M	EVQ-P6LB55
	4mm Low Profile (0.58mm) with Actuator	1	0.58	4.1	240gf	15	20	500K	P12328SCT-ND◆	.45	.38	.32	—	—	—	EVQ-P6UB55
	4mm Low Profile (0.58mm) with Actuator	1	0.58	4.1	240gf	15	20	500K	P14169CT-ND◆	.45	.38	.32	P14169TR-ND◆	10,000	205.00/M	EVQ-P6YB55
	4mm Low Profile (0.58mm) with Actuator	1	0.58	4.1	350gf	15	20	200K	P12329SCT-ND◆	.45	.38	.32	P12329STR-ND◆	10,000	205.00/M	EVQ-P6WB55
35	4mm Low Pro. (0.43mm) w/o Push Plate, w/ Gnd. Term.	1	0.43	4.1	160gf	15	20	1M	P14264SCT-ND◆ ***NEW!***	.41	.34	.29	P14264STR-ND◆ ***NEW!***	10,000	182.00/M	EVQ-6P6B40
	4mm Low Pro. (0.43mm) w/o Push Plate, w/ Gnd. Term.	1	0.43	4.1	240gf	15	20	500K	P14265SCT-ND◆ ***NEW!***	.41	.34	.29	P14265STR-ND◆ ***NEW!***	10,000	182.00/M	EVQ-9P6B40
36	5-way Switch Flat Type	—	1.55	9.8	320/160gf	15	20	1M	P12330SCT-ND◆	2.95	2.47	2.07	P12330STR-ND◆	2,000	1477.00/M	EVQ-Q3AA15
37	5-way Switch Stick Type w/Ground Terminal	—	5.0	7.3	260/130gf	15	20	1M	P13351SCT-ND◆	3.18	2.66	2.23	P13351STR-ND◆	3,000	1484.00/M	EVQ-Q7GA50

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted.

† PANSW1-KIT-ND Panasonic Tact Switch Kit – 10 each of parts denoted (100 pcs.). See Digi-Key's website for complete list of parts. **$39.95**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Through Hole Tactile/Light Touch Switches

CIRCUIT DIAGRAM 1

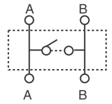

CIRCUIT DIAGRAM 2

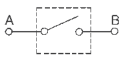

Fig. 1

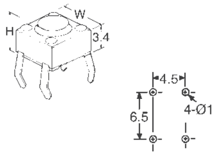

Fig. 2

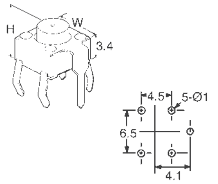

Fig. 3

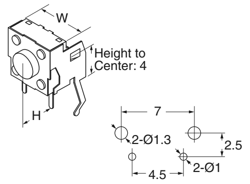

Fig. 4

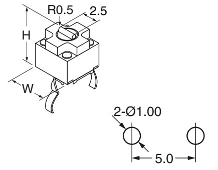

Fig. 5

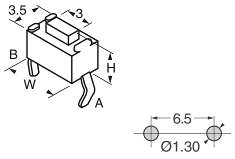

Fig. 6

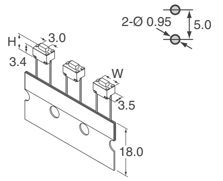

Fig. 7

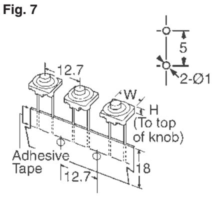

Fig. 8

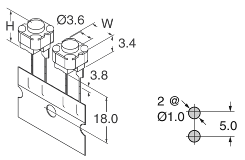

Fig. 9

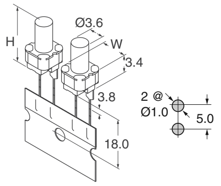

Fig. 10

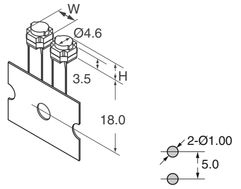

Fig. 11

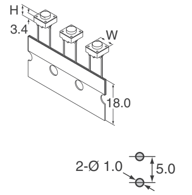

Fig. 12

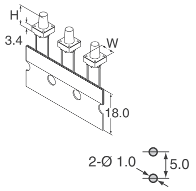

Fig. 13

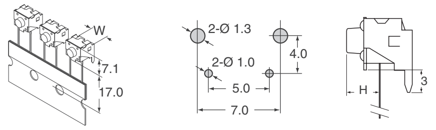

Fig.	Description	Circuit Diagram	Dim. (mm) H	Dim. (mm) W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 1,000	Panasonic Part No.
	6mm Type													
1	6mm Standard	1	4.3	6	100gf	15	20	100K	P8006S-ND◆	.22	1.83	15.33	109.50	EVQ-PAC04M
	6mm Standard	1	4.3	6	130gf	15	20	100K	P8007S-ND◆	.22	1.83	15.33	109.50	EVQ-PAD04M
	6mm Standard	1	4.3	6	160gf	15	20	100K	P8008S-ND◆	.22	1.83	15.33	109.50	EVQ-PAE04M
	6mm Standard	1	4.3	6	250gf	15	20	100K	P8009S-ND◆	.22	1.83	15.33	109.50	EVQ-PAG04M
	6mm Standard	1	5	6	100gf	15	20	100K	P8010S-ND◆	.22	1.83	15.33	109.50	EVQ-PAC05R
	6mm Standard	1	5	6	130gf	15	20	100K	P10890S-ND◆	.32	2.65	22.26	159.00	EVQ-PAD05R
	6mm Standard	1	5	6	160gf	15	20	100K	P12192S-ND	.23	1.89	15.83	113.10	EVQ-PAE05R
	6mm Standard	1	5	6	260gf	15	20	50K	P12195S-ND◆	.23	1.89	15.83	113.10	EVQ-PAG05R
	6mm Standard	1	7	6	100gf	15	20	100K	P8011S-ND◆	.22	1.83	15.33	109.50	EVQ-PAC07K
	6mm Standard	1	7	6	130gf	15	20	100K	P10891S-ND◆	.38	3.13	26.25	187.50	EVQ-PAD07K
	6mm Standard	1	7	6	160gf	15	20	100K	P12193S-ND◆	.23	1.89	15.83	113.10	EVQ-PAE07K
	6mm Standard	1	7	6	260gf	15	20	50K	P12196S-ND◆	.23	1.89	15.83	113.10	EVQ-PAG07K
	6mm Standard with Long Post	1	9.5	6	100gf	15	20	100K	P8012S-ND◆	.22	1.83	15.33	109.50	EVQ-PAC09K
	6mm Standard with Long Post	1	9.5	6	130gf	15	20	100K	P10892S-ND◆	.38	3.13	26.25	187.50	EVQ-PAD09K
	6mm Standard with Long Post	1	9.5	6	160gf	15	20	100K	P12194S-ND◆	.21	1.74	14.64	104.55	EVQ-PAE09K
	6mm Standard with Long Post	1	9.5	6	260gf	15	20	50K	P12197S-ND◆	.23	1.89	15.83	113.10	EVQ-PAG09K
2	6mm Standard with Ground Terminal	1	4.3	6	100gf	15	20	100K	P8013S-ND◆	.23	1.90	15.98	114.15	EVQ-PBC04M
	6mm Standard with Ground Terminal	1	4.3	6	130gf	15	20	100K	P12198S-ND	.22	1.84	15.46	110.40	EVQ-PBD04M
	6mm Standard with Ground Terminal	1	4.3	6	160gf	15	20	100K	P12200S-ND	.24	1.99	16.70	119.25	EVQ-PBE04M
	6mm Standard with Ground Terminal	1	4.3	6	260gf	15	20	50K	P12204S-ND	.27	2.26	19.01	135.75	EVQ-PBG04M
	6mm Standard with Ground Terminal	1	5	6	100gf	15	20	100K	P8014S-ND◆	.17	1.43	12.01	85.82	EVQ-PBC05R
	6mm Standard with Ground Terminal	1	5	6	130gf	15	20	100K	P10893S-ND◆	.24	2.01	16.86	120.45	EVQ-PBD05R
	6mm Standard with Ground Terminal	1	5	6	160gf	15	20	100K	P12201S-ND◆	.24	1.99	16.70	119.25	EVQ-PBE05R
	6mm Standard with Ground Terminal	1	5	6	260gf	15	20	50K	P12205S-ND◆	.27	2.26	19.01	135.75	EVQ-PBG05R
	6mm Standard with Ground Terminal	1	7	6	100gf	15	20	100K	P8015S-ND◆	.22	1.84	15.46	110.40	EVQ-PBC07K
	6mm Standard with Ground Terminal	1	7	6	130gf	15	20	100K	P10894S-ND◆	.29	2.38	19.95	142.50	EVQ-PBD07K
	6mm Standard with Ground Terminal	1	7	6	160gf	15	20	100K	P12202S-ND	.24	1.99	16.70	119.25	EVQ-PBE07K
	6mm Standard with Ground Terminal	1	7	6	260gf	15	20	50K	P12206S-ND	.27	2.26	19.01	135.75	EVQ-PBG07K
	6mm Standard with Ground Terminal & Long Post	1	9.5	6	100gf	15	20	100K	P8016S-ND◆	.22	1.86	15.65	111.75	EVQ-PBC09K
	6mm Standard with Ground Terminal & Long Post	1	9.5	6	130gf	15	20	100K	P12199S-ND◆	.22	1.84	15.46	110.40	EVQ-PBD09K
	6mm Standard with Ground Terminal & Long Post	1	9.5	6	160gf	15	20	100K	P12203S-ND◆	.24	1.99	16.70	119.25	EVQ-PBE09K
	6mm Standard with Ground Terminal & Long Post	1	9.5	6	260gf	15	20	50K	P12207S-ND◆	.27	2.26	19.01	135.75	EVQ-PBG09K
3	Right Angle Standard	2	3.15	7.5	100gf	15	20	100K	P10877S-ND◆	.22	1.80	15.12	108.00	EVQ-PF003M
	Right Angle Standard	2	3.15	7.5	130gf	15	20	100K	P10881S-ND◆	.27	2.22	18.65	133.20	EVQ-PF103M
	Right Angle Standard	2	3.15	7.5	160gf	15	20	100K	P12208S-ND◆	.27	2.22	18.65	133.20	EVQ-PF203M
	Right Angle Standard	2	3.15	7.5	260gf	15	20	50K	P12212S-ND◆	.27	2.26	19.01	135.75	EVQ-PF303M
	Right Angle Standard	2	3.85	7.5	100gf	15	20	100K	P10878S-ND◆	.27	2.22	18.65	133.20	EVQ-PF004R
	Right Angle Standard	2	3.85	7.5	130gf	15	20	100K	P10882S-ND◆	.30	2.48	20.79	148.50	EVQ-PF104R
	Right Angle Standard	2	3.85	7.5	160gf	15	20	100K	P12209S-ND◆	.27	2.22	18.65	133.20	EVQ-PF204R

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted.

(Continued)

Fig.	Description	Circuit Diagram	Dim. (mm)		Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Pricing				Panasonic Part No.
			H	W						1	10	100	1,000	
3	Right Angle Standard	2	3.85	7.5	260gf	15	20	50K	P12213S-ND◆	.27	2.26	19.01	135.75	EVQ-PF304R
	Right Angle Standard	2	5.85	7.5	100gf	15	20	100K	P10879S-ND◆	.27	2.22	18.65	133.20	EVQ-PF006K
	Right Angle Standard	2	5.85	7.5	130gf	15	20	100K	P10883S-ND◆	.27	2.22	18.65	133.20	EVQ-PF106K
	Right Angle Standard	2	5.85	7.5	160gf	15	20	100K	P12210S-ND◆	.27	2.22	18.65	133.20	EVQ-PF206K
	Right Angle Standard	2	5.85	7.5	260gf	15	20	50K	P12214S-ND◆	.27	2.26	19.01	135.75	EVQ-PF306K
	Right Angle Standard with Long Post	2	8.35	7.5	100gf	15	20	100K	P10880S-ND◆	.22	1.80	15.12	108.00	EVQ-PF008K
	Right Angle Standard with Long Post	2	8.35	7.5	130gf	15	20	100K	P10884S-ND◆	.22	1.80	15.12	108.00	EVQ-PF108K
	Right Angle Standard with Long Post	2	8.35	7.5	160gf	15	20	100K	P12211S-ND◆	.27	2.22	18.65	133.20	EVQ-PF208K
	Right Angle Standard with Long Post	2	8.35	7.5	260gf	15	20	50K	P12215S-ND◆	.27	2.26	19.01	135.75	EVQ-PF308K
4	Over Travel Switch for Fatigue Reduction	2	7.45	6.2	75gf	30	50	100K	P10843S-ND◆	.41	3.45	28.96	206.85	EVQ-P0E07K
	Over Travel Switch for Fatigue Reduction	2	7.45	6.2	130gf	30	50	100K	P10844S-ND◆	.41	3.45	28.96	206.85	EVQ-P0D07K
	6mm x 3.5mm Type — RoHS Compliant													
5	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	100gf	12	50	50K	P13587S-ND	.53	4.42	37.09	264.90	EVQ-PE404Q
	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	160gf	12	50	50K	P13589S-ND	.58	4.87	40.87	291.90	EVQ-PE504K
	6x3.5mm Narrow Body Space Saving Type	2	4.3	6	240gf	12	50	30K	P13591S-ND	.55	4.57	38.41	274.35	EVQ-PE604T
	6x3.5mm Narrow Body with Long Post	2	5	6	100gf	12	50	50K	P13588S-ND	.38	3.13	26.29	187.80	EVQ-PE405Q
	6x3.5mm Narrow Body with Long Post	2	5	6	160gf	12	50	50K	P13590S-ND	.53	4.42	37.09	264.90	EVQ-PE505K
	6x3.5mm Narrow Body with Long Post	2	5	6	240gf	12	50	30K	P13592S-ND	.55	4.57	38.41	274.35	EVQ-PE605T

Fig.	Description	Circuit Diagram	Dim. (mm)		Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Box		Panasonic Part No.
			H	W						1	10	100		Qty.	Pricing	
6	6x3.5mm Narrow Body, Space Saving Type	2	4.3	6	100gf	12	50	50K	P12236SCT-ND◆	.59	4.95	41.58	P12236STB-ND◆	2,000	277.00/M	EVQ-PJG04Q
	6x3.5mm Narrow Body, Space Saving Type	2	4.3	6	160gf	12	50	50K	P12238SCT-ND◆	.59	4.95	41.58	P12238STB-ND◆	2,000	277.00/M	EVQ-PJH04K
	6x3.5mm Narrow Body, Space Saving Type	2	4.3	6	240gf	12	50	30K	P12240SCT-ND◆	.59	4.95	41.58	P12240STB-ND◆	2,000	277.00/M	EVQ-PJJ04T
	6x3.5mm Narrow Body with Long Post	2	5	6	100gf	12	50	50K	P12237SCT-ND◆	.59	4.95	41.58	P12237STB-ND◆	2,000	277.00/M	EVQ-PJG05Q
	6x3.5mm Narrow Body with Long Post	2	5	6	160gf	12	50	50K	P12239SCT-ND◆	.59	4.95	41.58	P12239STB-ND◆	2,000	277.00/M	EVQ-PJH05K
	6x3.5mm Narrow Body with Long Post	2	5	6	240gf	12	50	30K	P12241SCT-ND◆	.59	4.95	41.58	P12241STB-ND◆	2,000	277.00/M	EVQ-PJJ05T
	6mm Round Type															
7	8mm Long Travel (1.0mm) for Automotive	2	5	8	80gf	12	5	1000K	P8029SCT-ND◆	.60	5.04	42.33	P8029STB-ND◆	1,000	302.00	EVQ-QJJ05Q
	8mm Long Travel (1.0mm) for Automotive	2	5	8	130gf	12	5	100K	P12242SCT-ND◆	.61	5.05	42.42	P12242STB-ND◆	1,000	302.00	EVQ-QJE05D
	8mm Long Travel (1.2mm) for Automotive	2	5	8	250gf	12	5	100K	P12243SCT-ND◆	.61	5.05	42.42	P12243STB-ND◆	1,000	302.00	EVQ-QJD05B
8	6mm Round Shape for Mounting Efficiency	2	4.3	6	100gf	15	20	100K	P8070SCT-ND◆	.28	2.35	19.74	P8070STB-ND◆	2,500	132.00/M	EVQ-11A04M
	6mm Round Shape for Mounting Efficiency	2	4.3	6	130gf	15	20	100K	P8074SCT-ND	.28	2.35	19.74	P8074STB-ND◆	2,500	132.00/M	EVQ-11G04M
	6mm Round Shape for Mounting Efficiency	2	4.3	6	160gf	15	20	100K	P8078SCT-ND	.28	2.35	19.74	P8078STB-ND◆	2,500	132.00/M	EVQ-11L04M
	6mm Round Shape for Mounting Efficiency	2	4.3	6	260gf	15	20	100K	P8082SCT-ND	.28	2.35	19.74	P8082STB-ND◆	2,500	132.00/M	EVQ-11U04M
	6mm Round Shape for Mounting Efficiency	2	5	6	100gf	15	20	100K	P8071SCT-ND	.28	2.35	19.74	P8071STB-ND◆	2,500	132.00/M	EVQ-11A05R
	6mm Round Shape for Mounting Efficiency	2	5	6	130gf	15	20	100K	P8075SCT-ND◆	.28	2.35	19.74	P8075STB-ND◆	2,500	132.00/M	EVQ-11G05R
	6mm Round Shape for Mounting Efficiency	2	5	6	160gf	15	20	100K	P8079SCT-ND◆	.28	2.35	19.74	P8079STB-ND◆	2,500	132.00/M	EVQ-11L05R
	6mm Round Shape for Mounting Efficiency	2	5	6	260gf	15	20	100K	P8083SCT-ND	.28	2.35	19.74	P8083STB-ND◆	2,500	132.00/M	EVQ-11U05R
	6mm Round Shape for Mounting Efficiency	2	7	6	100gf	15	20	100K	P8072SCT-ND◆	.28	2.35	19.74	P8072STB-ND◆	2,500	132.00/M	EVQ-11A07K
	6mm Round Shape for Mounting Efficiency	2	7	6	130gf	15	20	100K	P8076SCT-ND	.28	2.35	19.74	P8076STB-ND	2,500	132.00/M	EVQ-11G07K
	6mm Round Shape for Mounting Efficiency	2	7	6	160gf	15	20	100K	P8080SCT-ND◆	.28	2.35	19.74	P8080STB-ND◆	2,500	132.00/M	EVQ-11L07K
	6mm Round Shape for Mounting Efficiency	2	7	6	260gf	15	20	100K	P8084SCT-ND◆	.28	2.35	19.74	P8084STB-ND◆	2,500	132.00/M	EVQ-11U07K
9	6mm Round Shape with Long Post	2	9.5	6	100gf	15	20	100K	P8073SCT-ND◆	.28	2.35	19.74	P8073STB-ND◆	2,500	132.00/M	EVQ-11A09K
	6mm Round Shape with Long Post	2	9.5	6	130gf	15	20	100K	P8077SCT-ND◆	.28	2.35	19.74	P8077STB-ND◆	2,500	132.00/M	EVQ-11G09K
	6mm Round Shape with Long Post	2	9.5	6	160gf	15	20	100K	P8081SCT-ND◆	.28	2.35	19.74	P8081STB-ND◆	2,500	132.00/M	EVQ-11L09K
	6mm Round Shape with Long Post	2	9.5	6	260gf	15	20	100K	P8085SCT-ND◆	.28	2.35	19.74	P8085STB-ND◆	2,500	132.00/M	EVQ-11U09K
10	6mm Long Travel (1.3mm) for Automotive	2	5	6	200gf	12	50	100K	P10856SCT-ND◆	.83	6.88	57.79	P10856STB-ND◆	2,500	385.00/M	EVQ-PVG05K
	6mm Long Travel (1.3mm) for Automotive	2	5	6	220gf	12	50	100K	P10855SCT-ND◆	1.06	8.80	73.89	P10855STB-ND◆	2,500	493.00/M	EVQ-PVA05K
	6mm Long Travel (1.3mm) for Automotive	2	5	6	250gf	12	50	100K	P10858SCT-ND◆	1.06	8.80	73.89	P10858STB-ND◆	2,500	493.00/M	EVQ-PVF05K
	6mm Long Travel (1.3mm) for Automotive	2	5	6	350gf	12	50	100K	P10857SCT-ND◆	.83	6.88	57.79	P10857STB-ND◆	2,500	385.00/M	EVQ-PVH05K
	6mm Square Type															
11	6mm Radial Taping for Automatic Insertion	2	4.3	6	100gf	15	20	100K	P12216SCT-ND◆	.25	2.06	17.26	P12216STB-ND◆	1,000	123.00	EVQ-21304M
	6mm Radial Taping for Automatic Insertion	2	4.3	6	130gf	15	20	100K	P12220SCT-ND◆	.25	2.06	17.26	P12220STB-ND◆	1,000	123.00	EVQ-21404M
	6mm Radial Taping for Automatic Insertion	2	4.3	6	160gf	15	20	100K	P12224SCT-ND	.38	3.18	26.71	P12224STB-ND◆	1,000	191.00	EVQ-21504M
	6mm Radial Taping for Automatic Insertion	2	4.3	6	260gf	15	20	50K	P12228SCT-ND◆	.25	2.06	17.26	P12228STB-ND◆	1,000	123.00	EVQ-22704M
	6mm Radial Taping for Automatic Insertion	2	5	6	100gf	15	20	100K	P12217SCT-ND	.39	3.28	27.51	P12217STB-ND◆	1,000	197.00	EVQ-21305R
	6mm Radial Taping for Automatic Insertion	2	5	6	130gf	15	20	100K	P12221SCT-ND◆	.38	3.18	26.71	P12221STB-ND◆	1,000	191.00	EVQ-21405R
	6mm Radial Taping for Automatic Insertion	2	5	6	160gf	15	20	100K	P12225SCT-ND	.25	2.06	17.26	P12225STB-ND◆	1,000	123.00	EVQ-21505R
	6mm Radial Taping for Automatic Insertion	2	5	6	260gf	15	20	50K	P12229SCT-ND	.25	2.06	17.26	P12229STB-ND	1,000	123.00	EVQ-22705R
	6mm Radial Taping for Automatic Insertion	2	7	6	100gf	15	20	100K	P12218SCT-ND◆	.25	2.06	17.26	P12218STB-ND◆	1,000	123.00	EVQ-21307K
	6mm Radial Taping for Automatic Insertion	2	7	6	130gf	15	20	100K	P12222SCT-ND◆	.25	2.06	17.26	P12222STB-ND◆	1,000	123.00	EVQ-21407K
	6mm Radial Taping for Automatic Insertion	2	7	6	160gf	15	20	100K	P12226SCT-ND	.25	2.06	17.26	P12226STB-ND	1,000	123.00	EVQ-21507K
	6mm Radial Taping for Automatic Insertion	2	7	6	260gf	15	20	50K	P12230SCT-ND◆	.25	2.06	17.26	P12230STB-ND◆	1,000	123.00	EVQ-22707K
12	6mm Radial Taping with Long Post	2	9.5	6	100gf	15	20	100K	P12219SCT-ND◆	.25	2.06	17.26	P12219STB-ND◆	1,000	123.00	EVQ-21309K
	6mm Radial Taping with Long Post	2	9.5	6	130gf	15	20	100K	P12223SCT-ND◆	.25	2.06	17.26	P12223STB-ND◆	1,000	123.00	EVQ-21409K
	6mm Radial Taping with Long Post	2	9.5	6	160gf	15	20	100K	P12227SCT-ND◆	.25	2.06	17.26	P12227STB-ND◆	1,000	123.00	EVQ-21509K
	6mm Radial Taping with Long Post	2	9.5	6	260gf	15	20	50K	P12231SCT-ND◆	.25	2.06	17.26	P12231STB-ND◆	1,000	123.00	EVQ-22709K
13	Right Angle Radial Taping	2	4.75	7.5	100gf	15	20	100K	P12232SCT-ND◆	.30	2.46	20.68	P12232STB-ND◆	700	103.60	EVQ-PCF05K
	Right Angle Radial Taping	2	4.75	7.5	130gf	15	20	100K	P12233SCT-ND◆	.30	2.46	20.68	P12233STB-ND◆	700	103.60	EVQ-PCG05K
	Right Angle Radial Taping	2	4.75	7.5	160gf	15	20	100K	P12234SCT-ND◆	.30	2.46	20.68	P12234STB-ND◆	700	103.60	EVQ-PCH05K
	Right Angle Radial Taping	2	4.75	7.5	260gf	15	20	100K	P12235SCT-ND◆	.30	2.46	20.68	P12235STB-ND◆	700	103.60	EVQ-PCD05K

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted.

Dimensions in mm

Fig. 1

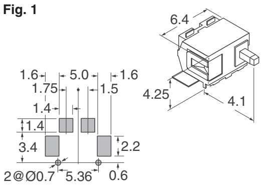

Fig. 2

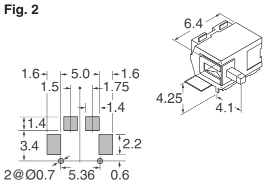

Fig. 3

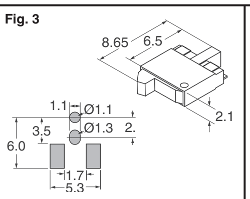

Fig. 4

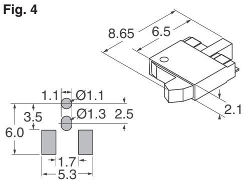

Fig. 5

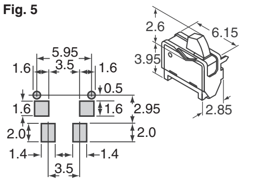

Fig. 6

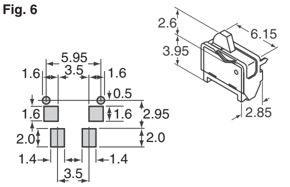

Fig. 7

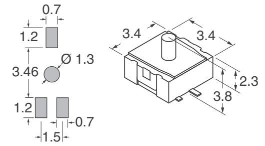

Fig. 8 ESE-2161 Series, NC Contact With or Without Boss

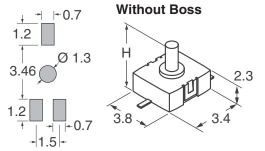

Fig. 9

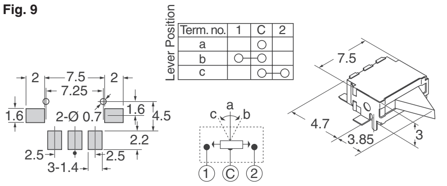

Fig. 10

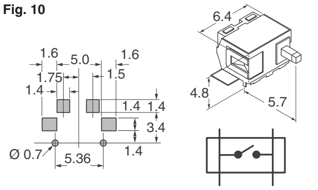

Fig. 11

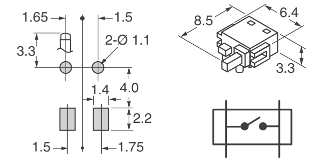

Fig. 12

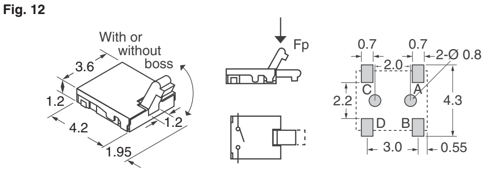

Fig. 13

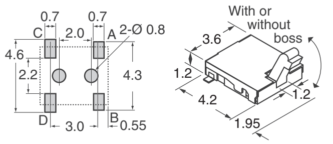

Fig. 14

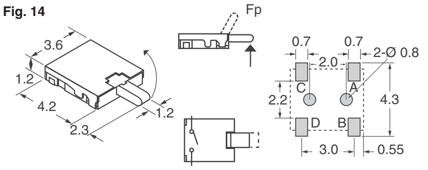

Fig. 15

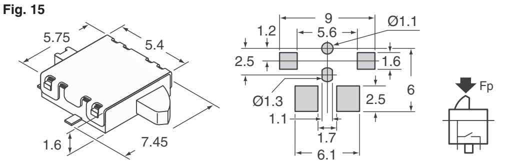

Fig. 16

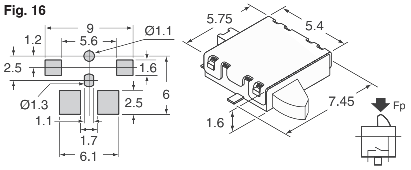

Fig. 17 — J-Bent Terminal Type

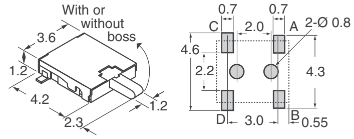

Fig. 18 — J-Bent Terminal Type

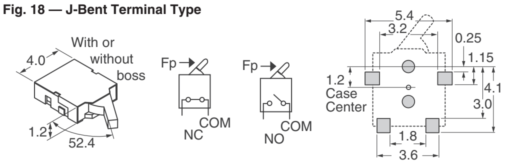

Fig.	Description	Voltage Rating (VDC)	Current Rating (mA)	OP Force	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
						1	10	100	500		Qty.	Pricing	
1	SMD Horizontal Mount	5	10	35.7gf	P8097SCT-ND◆	.62	.52	.44	.37	P8097STR-ND◆	1,500	308.00/M	ESE-11MH1T
2	SMD Horizontal Mount	5	10	35.7gf	P8098SCT-ND◆	.62	.52	.44	.37	P8098STR-ND◆	1,500	308.00/M	ESE-11MH2T
3	SMD Horizontal Mount	5	10	31gf	P8094SCT-ND◆	.62	.52	.44	.37	—	—	—	ESE-22MH2
	SMD Horizontal Mount	5	10	30gf	P13583SCT-ND◆	.62	.52	.44	.37	P13583STR-ND◆	4,000	287.00/M	ESE-22MH22
4	SMD Horizontal Mount	5	10	31gf	P8095SCT-ND◆	.62	.52	.44	.37	P8095STR-ND◆	4,000	308.00/M	ESE-22MH4
	SMD Horizontal Mount	5	10	30gf	P13584SCT-ND◆	.62	.52	.44	.37	P13584STR-ND◆	4,000	287.00/M	ESE-22MH24
5	SMD Horizontal Mount	5	10	30gf	P13374SCT-ND◆	.62	.52	.44	.37	P13374STR-ND◆	3,000	287.00/M	ESE-22MH52
6	SMD Horizontal Mount	5	10	30gf	P13375SCT-ND◆	.62	.52	.44	.37	P13375STR-ND◆	3,000	287.00/M	ESE-22MH54
7	SMD Vertical Mount	5	10	30gf	P13376SCT-ND◆	.51	.43	.36	.31	P13376STR-ND◆	2,000	237.00/M	ESE-2121AT
	SMD Vertical Mount, with Boss	5	10	30gf	P13377SCT-ND◆	.51	.43	.36	.31	P13377STR-ND◆	2,000	237.00/M	ESE-2121BT
8	SMD Vertical Mount, H=4.8	5	10	30gf	P13378SCT-ND◆	.51	.43	.36	.31	P13378STR-ND◆	2,000	237.00/M	ESE-2131AT
	SMD Vertical Mount, H=4.8, with Boss	5	10	31gf	P10869SCT-ND◆	.51	.43	.36	.31	P10869STR-ND◆	2,000	237.00/M	ESE-2131BT
	SMD Vertical Mount, H=3.6, NC	5	10	30gf	P13379SCT-ND◆	1.27	1.06	.90	.77	P13379STR-ND◆	2,000	594.00/M	ESE-2161AT
	SMD Vertical Mount, H=3.6, NC, with Boss	5	10	30gf	P13380SCT-ND◆	1.27	1.06	.90	.77	P13380STR-ND◆	2,000	594.00/M	ESE-2161BT
9	SMD Horizontal Mount SPDT	5	10	35.7gf	P10873SCT-ND◆	.84	.70	.59	.51	P10873STR-ND◆	1,000	419.00	ESE-24MH1T
10	SMD Horizontal Mount	5	10	36gf	P11149SCT-ND◆	.50	.42	.36	.31	P11149STR-ND◆	1,500	250.00/M	ESE-11MH5T
11	SMD Horizontal Mount	5	10	36gf	P11150SCT-ND◆	.50	.42	.36	.31	P11150STR-ND◆	1,500	250.00/M	ESE-11MH6T
12	SMD Horizontal Mount, J-Bent Type	5	10	30gf	P11151SCT-ND◆	.73	.61	.51	.44	P11151STR-ND◆	3,000	339.00/M	ESE-13V01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5	10	30gf	P13354SCT-ND◆	.73	.61	.51	.44	P13354STR-ND◆	3,000	339.00/M	ESE-13V01B
13	SMD Horizontal Mount, Flat Type	5	10	30gf	P13355SCT-ND◆	.73	.61	.51	.44	P13355STR-ND◆	3,000	339.00/M	ESE-13V01C
	SMD Horizontal Mount, Flat Type, with Boss	5	10	30gf	P13356SCT-ND◆	.73	.61	.51	.44	P13356STR-ND◆	3,000	339.00/M	ESE-13V01D
14	SMD Horizontal Mount, J-Bent Type	5	10	30gf	P11152SCT-ND◆	.73	.61	.51	.44	P11152STR-ND◆	5,000	339.00/M	ESE-13H01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5	10	30gf	P13357SCT-ND◆	.73	.61	.51	.44	P13357STR-ND◆	5,000	339.00/M	ESE-13H01B
15	SMD Horizontal Mount, NO, with Boss	5	10	39gf	P13567SCT-ND◆	.75	.63	.53	.45	P13567STR-ND◆	2,500	349.00/M	ESE-31L11T
16	SMD Horizontal Mount, NO, with Boss	5	10	39gf	P13568SCT-ND◆	.75	.63	.53	.45	P13568STR-ND◆	2,500	349.00/M	ESE-31R11T
17	SMD Horizontal Mount, Flat Type	5	10	30gf	P13358SCT-ND◆	.73	.61	.51	.44	P13358STR-ND◆	5,000	339.00/M	ESE-13H01C
	SMD Horizontal Mount, Flat Type, with Boss	5	10	30gf	P13359SCT-ND◆	.73	.61	.51	.44	P13359STR-ND◆	5,000	339.00/M	ESE-13H01D
18	SMD Horizontal Mount, NO	5	10	30gf	P13367SCT-ND◆	.68	.57	.48	.41	—	—	—	ESE-18RJ01
	SMD Horizontal Mount, NO	5	10	30gf	P14174SCT-ND◆	.68	.57	.48	.41	P14174STR-ND◆	5,000	318.00/M	ESE-18R11A
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P11153SCT-ND◆	.68	.57	.48	.41	P11153STR-ND◆	5,000	341.00/M	ESE-18RJ02
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P14175SCT-ND◆	.68	.57	.48	.41	P14175STR-ND◆	5,000	318.00/M	ESE-18R11B
	SMD Horizontal Mount, NC	5	10	30gf	P13370SCT-ND◆	1.27	1.06	.90	.77	P13370STR-ND◆	5,000	594.00/M	ESE-18R61A
	SMD Horizontal Mount, NC, with Boss	5	10	30gf	P13371SCT-ND◆	1.27	1.06	.90	.77	P13371STR-ND◆	5,000	594.00/M	ESE-18R61B
19	SMD Horizontal Mount, NO	5	10	30gf	P13368SCT-ND◆	.68	.57	.48	.41	—	—	—	ESE-18RF01
	SMD Horizontal Mount, NO	5	10	30gf	P14176SCT-ND◆	.68	.57	.48	.41	P14176STR-ND◆	5,000	318.00/M	ESE-18R11C
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P13369SCT-ND◆	.68	.57	.48	.41	P13369STR-ND◆	5,000	341.00/M	ESE-18RF02
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P14177SCT-ND◆	.68	.57	.48	.41	P14177STR-ND◆	5,000	318.00/M	ESE-18R11D
	SMD Horizontal Mount, NC	5	10	30gf	P13372SCT-ND◆	1.27	1.06	.90	.77	P13372STR-ND◆	5,000	594.00/M	ESE-18R61C
	SMD Horizontal Mount, NC, with Boss	5	10	30gf	P13373SCT-ND◆	1.27	1.06	.90	.77	P13373STR-ND◆	5,000	594.00/M	ESE-18R61D

◆ ***RoHS Compliant*** § Bulk Note: All switches are non-washable unless otherwise noted.

(Continued)

Dimensions in mm

Fig. 19 — Straight Terminal Type

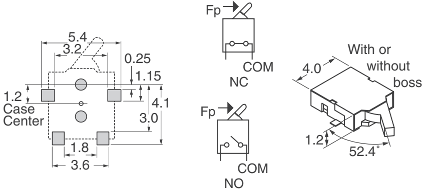

Fig. 20 — J-Bent Terminal Type

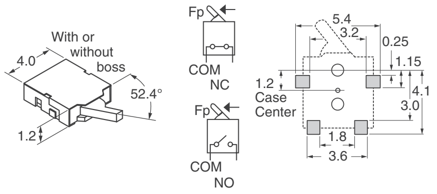

Fig. 21 — Straight Terminal Type

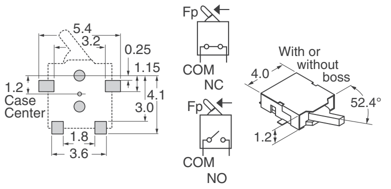

Fig. 22

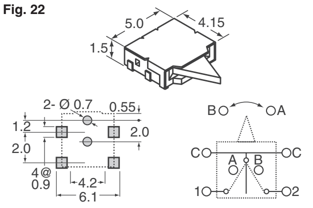

Fig. 23

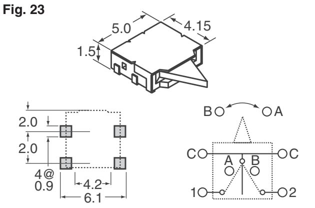

Fig. 24

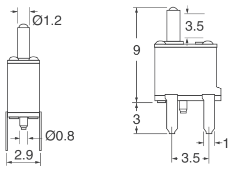

Fig. 25

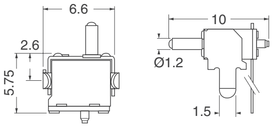

Fig. 26

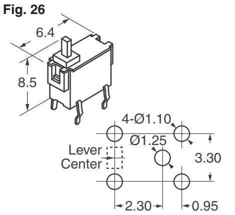

Fig. 27

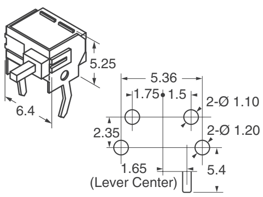

Fig. 28

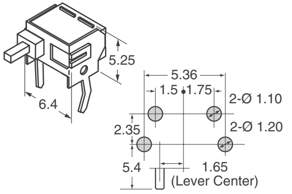

Fig. 29

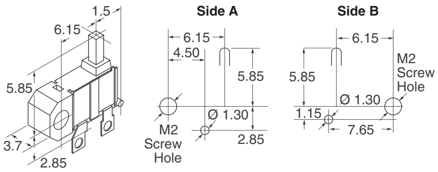

Fig. 30

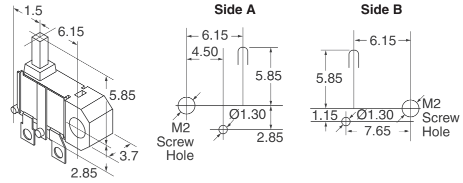

Fig. 31

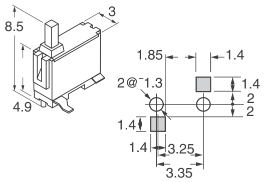

Fig. 32

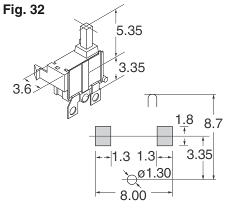

Fig. 33

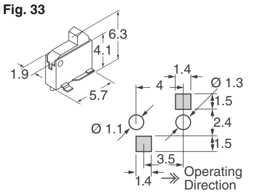

Fig. 34

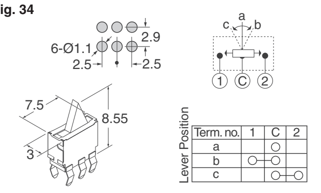

Fig. 35

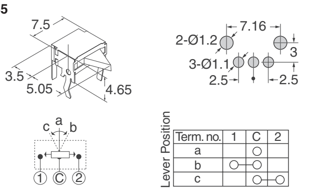

Fig. 36

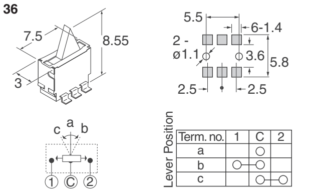

Fig. 37 ***NEW!***

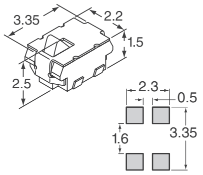

Fig.	Description	Voltage Rating (VDC)	Current Rating (mA)	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
20	SMD Horizontal Mount, NO	5	10	30gf	P13360SCT-ND◆	.68	.57	.48	.41	P13360STR-ND◆	5,000	341.00/M	ESE-18LJ01
	SMD Horizontal Mount, NO	5	10	30gf	P14170SCT-ND◆	.68	.57	.48	.41	P14170STR-ND◆	5,000	318.00/M	ESE-18L11A
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P11154SCT-ND◆	.68	.57	.48	.41	—	—	—	ESE-18LJ02
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P14171SCT-ND◆	.68	.57	.48	.41	P14171STR-ND◆	5,000	318.00/M	ESE-18L11B
	SMD Horizontal Mount, NC	5	10	30gf	P13363SCT-ND◆	1.27	1.06	.90	.77	P13363STR-ND◆	5,000	594.00/M	ESE-18L61A
	SMD Horizontal Mount, NC, with Boss	5	10	30gf	P13364SCT-ND◆	1.27	1.06	.90	.77	P13364STR-ND◆	5,000	594.00/M	ESE-18L61B
21	SMD Horizontal Mount, NO	5	10	30gf	P13361SCT-ND◆	.68	.57	.48	.41	P13361STR-ND◆	5,000	341.00/M	ESE-18LF01
	SMD Horizontal Mount, NO	5	10	30gf	P14172SCT-ND◆	.68	.57	.48	.41	P14172STR-ND◆	5,000	318.00/M	ESE-18L11C
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P13362SCT-ND◆	.68	.57	.48	.41	—	—	—	ESE-18LF02
	SMD Horizontal Mount, NO, with Boss	5	10	30gf	P14173SCT-ND◆	.68	.57	.48	.41	P14173STR-ND◆	5,000	318.00/M	ESE-18L11D
	SMD Horizontal Mount, NC	5	10	30gf	P13365SCT-ND◆	1.27	1.06	.90	.77	P13365STR-ND◆	5,000	594.00/M	ESE-18L61C
	SMD Horizontal Mount, NC, with Boss	5	10	30gf	P13366SCT-ND◆	1.27	1.06	.90	.77	P13366STR-ND◆	5,000	594.00/M	ESE-18L61D
22	SMD Horizontal Mount	5	10	30gf	P12340SCT-ND◆	.91	.76	.64	.55	P12340STR-ND◆	4,000	424.00/M	ESE-23J101
	SMD Horizontal Mount	5	10	30gf	P12342SCT-ND◆	.91	.76	.64	.55	P12342STR-ND◆	4,000	424.00/M	ESE-23F101
23	SMD Horizontal Mount	5	10	30gf	P12341SCT-ND◆	.91	.76	.64	.55	P12341STR-ND◆	4,000	424.00/M	ESE-23J001
	SMD Horizontal Mount	5	10	30gf	P12343SCT-ND◆	.91	.76	.64	.55	P12343STR-ND◆	4,000	424.00/M	ESE-23F001
24	PC Vertical Mount	5	10	35gf	P8039S-ND§	.71	.60	.50	—	—	—	—	ESE-105SV1
25	PC Horizontal Mount	5	10	35gf	P8040S-ND§	.81	.68	.57	—	—	—	—	ESE-105SH1
26	PC Vertical Mount	5	10	35gf	P8062S-ND◆§	.53	.45	.38	.33	—	—	—	ESE-11SV1
27	PC Horizontal Mount	5	10	35gf	P10862S-ND◆§	.53	.45	.38	.33	—	—	—	ESE-11SH1C
28	PC Horizontal Mount	5	10	35gf	P10863S-ND◆§	.53	.45	.38	.33	—	—	—	ESE-11SH2C
29	Tabbed with Mounting Hole	5	10	35gf	P10864S-ND◆§	.59	.49	.42	.36	—	—	—	ESE-11HS1
30	Tabbed with Mounting Hole	5	10	35gf	P10865S-ND◆§	.59	.49	.42	.36	—	—	—	ESE-11HS2
31	SMD Vertical Mount	5	10	35gf	P10866S-ND◆§	.59	.49	.42	.36	—	—	—	ESE-11MV1
32	Snap-In with Tabs Horizontal Mount	5	10	35gf	P10867S-ND◆§	.59	.49	.42	.36	—	—	—	ESE-11SF1A
33	SMD Vertical Mount	5	10	30gf	P13585SCT-ND◆	.60	.51	.43	.37	P13585STR-ND◆	1,000	302.00	ESE-22MV21T
34	PC Vertical Mount SPDT	5	10	35.7gf	P10870S-ND◆§	.84	.70	.59	.51	—	—	—	ESE-24SV3
35	PC Horizontal Mount SPDT	5	10	35.7gf	P10871S-ND◆§	.84	.70	.59	.51	—	—	—	ESE-24SH1
36	SMD Vertical Mount SPDT	5	10	35.7gf	P10872S-ND◆§	.84	.70	.59	.51	—	—	—	ESE-24MV1
37	SMD Vertical Mount SPST, NO	5	10	25gf	P14266SCT-ND◆ ***NEW!***	1.14	.95	.80	.69	P14266STR-ND◆ ***NEW!***	4,000	532.00/M	ESE-16J001

◆ ***RoHS Compliant*** § Bulk Note: All switches are non-washable unless otherwise noted.

C&K Detect Switches

DDS Series — Micro Mini Thru-Hole Detect Switches

RoHS COMPLIANT

The **DDS Series** delivers 2mm over-travel, making them ideally suited for detector applications such as CD ROM card readers, copiers and medical.

Specifications: • Contact Rating: 0.1A@30VDC • Operating Temperature: -25°C ~ 80°C • Life Cycle: 50,000 • Operating Force: Less than 40gF

Dimensions in mm

DDS001

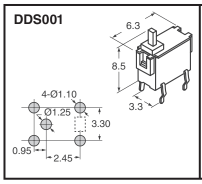

DDS002

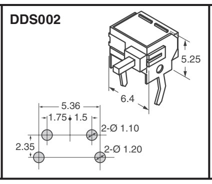

DDS003

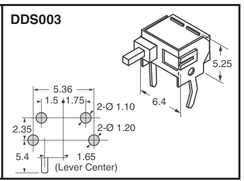

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical Mount	401-1734-ND	1.07	.86	.69	DDS001
Horizontal Mount	401-1735-ND	1.16	.94	.74	DDS002
Horizontal Mount	401-1736-ND	1.19	.96	.76	DDS003

HDT/SDT Series — Micro Mini SMT Detect Switches

Digi-Reel® RoHS COMPLIANT AdvancedTCA® μTCA®

The **HDT Series** is low profile, designed for top or side actuation. With its low actuation force, it can be used with medical devices, computers and consumer electronics. The **SDT Series** is low profile, sitting just 3.30mm off PCB. It is designed for top or side actuation. Low actuation force, 30gF, makes the SDT Series ideal for consumer electronics, computers, and medical devices. **Specifications:** • Contact Rating: 1mA@5VDC • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

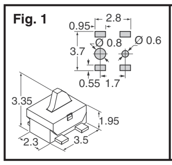

Fig. 2

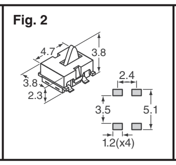

Fig. 3

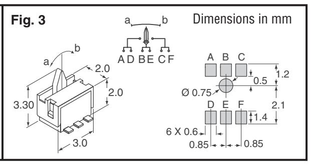

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel* Qty.	Pricing	C&K Part No.
1	Low Profile, SPST-NO, 35gF	401-1733-1-ND	1.49	1.38	1.26	2,450	822.60/M	HDT0001
2	Low Profile, SPST-NO, 35gF	CKN9956CT-ND	1.49	1.38	1.26	2,800	822.60/M	HDT0004
3	Low Profile, Top or Side Actuation	CKN10010CT-ND✔	4.51	4.17	3.82	2,200	2500.20/M	SDT004

✔ ***NEW!*** * For Tape and Reel part number, change 1-ND to 2-ND or CT-ND to TR-ND.

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KSU Series — Micro Mini Detector Switches

Digi-Reel® RoHS COMPLIANT

The **KSU Series** is a top actuated multi contact detector switch without tactile feedback and with normally open contacts.

Specifications: • Circuit: SPST-NO • Minimum/Maximum Voltage: 20mV ~ 32V • Minimum/Maximum Current: .01mA ~ 10mA • Life Expectancy: 100,000 operations • Operating Force: 180gF • Contacts: Gold • Operating Temperature: -40°C ~ 125°C

Dimensions in mm

7 x 3.5mm, Metal Actuator

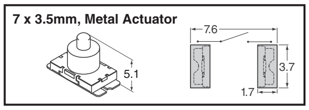

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	C&K Part No.
Gull Wing Short Travel	CKN9204CT-ND	1.52	1.41	1.29	CKN9204TR-ND	840.60	KSU213 ST LFG
Gull Wing	401-1598-1-ND	.98	.91	.84	401-1598-2-ND	543.60	KSU213WLFG

SDS Series — Side Actuated Detect Switches

PICMG AdvancedTCA® μTCA® RoHS COMPLIANT

Standing only 2mm off PCB covering 5.7mm x 5.0mm of board space with both NO and NC, makes these switches ideal for any detection need.

Specifications:
- Actuation Force: 75gF maximum • Contact Rating: 100mA@12VDC
- Operating Temperature: -40°C ~ 85°C

Dimensions in mm

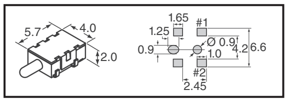

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T&R Pricing* 3,000	C&K Part No.
SPST-NO, Silver, Detect Switch	401-1737-ND‡	1.17	.94	.74	—	SDS001
SPST-NO, Silver, Detect Switch	CKN10230CT-ND ***NEW!***	1.37	1.27	1.17	759.60/M	SDS001R
SPST-NC, Silver, Detect Switch	401-1738-ND‡	1.17	.94	.74	—	SDS002
SPST-NC, Silver, Detect Switch	CKN10231CT-ND ***NEW!***	1.37	1.27	1.17	759.60/M	SDS002R
SPST-NO, Gold, Detect Switch	CKN9484-ND‡	1.17	.94	.74	—	SDS004
SPST-NO, Gold, Detect Switch	CKN10232CT-ND ***NEW!***	1.37	1.27	1.17	759.60/M	SDS004R
SPST-NC, Gold, Detect Switch	CKN9485-ND‡	1.17	.94	.74	—	SDS005
SPST-NC, Gold, Detect Switch	CKN10233CT-ND ***NEW!***	1.37	1.27	1.17	759.60/M	SDS005R

* For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk

MDS Series — Micro Snap-Acting Detect Switches

RoHS COMPLIANT AdvancedTCA® μTCA®

Snap-acting tactile feel, small package size, with 2.9mm total travel

Applications: • Medical devices • Consumer electronics • Detect the presence of a mechanical device

Specifications: • Contacts: 300mA@6VDC • Life Expectancy: 10,000 operations • Operating Temperature: -25°C ~ 70°C

Dimensions in mm

Fig. 1

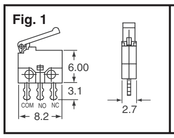

Fig. 2

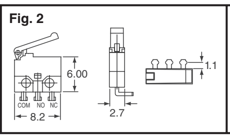

Fig. 3

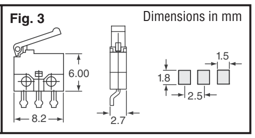

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	T&R* Pricing 1,600	C&K Part No.
1	PC Thru-hole, Short	CKN9566-ND	2.06	1.91	1.75	—	MDS6500AL02PS
	PC Thru-hole, Long	CKN9571-ND	2.06	1.91	1.75	—	MDS6500AL02PL
2	PC Thru-hole, Short, Left Bend	CKN9567-ND	2.70	2.49	2.29	—	MDS6500AL02LS
	PC Thru-hole, Short, Right Bend	CKN9568-ND	2.70	2.49	2.29	—	MDS6500AL02RS
	PC Thru-hole, Long, Right Bend	CKN9569-ND	2.70	2.49	2.29	—	MDS6500AL02RL
	PC Thru-hole, Long, Left Bend	CKN9570-ND	2.70	2.49	2.29	—	MDS6500AL02LL
3	SMT, Left	CKN9572CT-ND†	2.75	2.55	2.33	1524.60/M	MDS6500AL02SL
	SMT, Right	CKN9573CT-ND†	2.75	2.55	2.33	1524.60/M	MDS6500AI02SR

* For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

GDS Series — Ultra Low Profile Micro Mini Side Actuated Detect Switches

RoHS COMPLIANT AdvancedTCA® μTCA®

Dimensions in mm

Features:
- Ultra low profile package sits just 0.9mm off PCB
- Design allows x or y axis actuation

Applications:
- Consumer electronics • Computers • Medical devices
- Mobile Communication devices

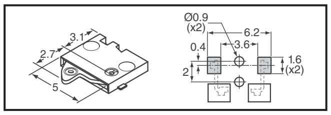

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T&R* Pricing 5,000	C&K Part No.
Ultra Low Profile, SPST-NO, 30gF	CKN9957CT-ND	6.57	6.06	5.56	3636.00/M	GDS001

* For Tape and Reel part number, change CT-ND to TR-ND.

HDS Series — Micro Mini Side Actuated SMT Detect Switches

RoHS COMPLIANT AdvancedTCA® μTCA®

Dimensions in mm

Features:
- Low profile package sits just 1.4mm off PCB
- Design allows top or side actuation

Applications:
- Consumer electronics • Computers • Medical devices • Mobile Communication devices

Fig. 1

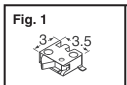

Fig. 2

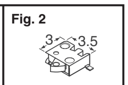

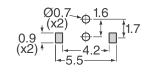

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T&R* Pricing 5,000	C&K Part No.
1	Micro Mini Left Side, SPST-NO, 30gF	CKN9959CT-ND	1.43	1.32	1.21	790.20/M	HDS001L
2	Micro Mini Right Side, SPST-NO, 30gF	CKN9960CT-ND	1.43	1.32	1.21	790.20/M	HDS001R

* For Tape and Reel part number, change CT-ND to TR-ND.

ZM Series — Subminiature Snap-Acting Detect Switches

RoHS COMPLIANT

Features: Reliable snap-acting mechanism in a compact size

Applications: • PCB detection switch • Communication devices • Testing equipment • Security/alarm systems

Specifications: • Contact Rating: 3A@125VAC • Operating Temperature: -25°C ~ 85°C • Operating Force: 150gF • Contact Material: Silver, gold plated • Life Cycle: 15,000

Dimensions in mm

ZMCJF7P0T

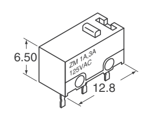

ZMCJF7L0T

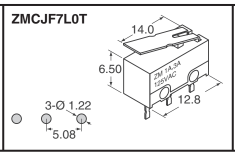

Right Footed

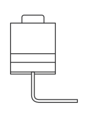

Left Footed

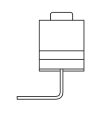

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, Thru-Hole, Button Actuator	401-1742-ND	1.83	1.47	1.16	ZMCJF7P0T
Left-footed, Button Actuator	401-1743-ND	2.37	1.90	1.51	ZMCJF7P0L
Right-footed, Button Actuator	401-1744-ND	2.37	1.90	1.51	ZMCJF7P0R
Vertical, Thru-Hole, Leaf Actuator	401-1745-ND	1.91	1.54	1.22	ZMCJF7L0T
Left-footed, Leaf Actuator	401-1746-ND	2.45	1.97	1.56	ZMCJF7L0L
Right-footed, Leaf Actuator	401-1747-ND	2.45	1.97	1.56	ZMCJF7L0R

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

OMRON Momentary Tact Switches

CHARACTERISTICS: • Switching Capacity: 50mA, 24VDC (resistive load) **• Contact Resistance:** 100mΩ maximum **• Bounce Time:** 5ms maximum **• Vibration:** Malfunction durability: 10 ~ 55Hz, 1.5mm double amplitude **• Shock:** Destruction durability: 1,000m/s^2 (approximate 100G) maximum; Malfunction durability: 100m/s^2 (approximate 10G) maximum **• Ambient Temperature:** Operating: -25°C ~ 70°C **• Service Life: •** ***B3F-1 Series, B3F-3 Series*** — Mechanical/Electrical: 1 x 10^6 (0.3 x 10^6) operations minimum **•** ***B3F-4 Series*** — Mechanical/Electrical: 3 x 10^6 (0.3 x 10^6) operations minimum **•** ***B3S-1 Series*** — Mechanical/Electrical: General-purpose type: 500,000 operations minimum; High-load type: 300,000 operations minimum **•** ***B3W-1 Series*** — Mechanical/Electrical: General-purpose type: 1,000,000 operations minimum; High-load type: 300,000 operations minimum **•** ***B3W-4 Series*** — Mechanical/Electrical: General-purpose type: 3,000,000 operations minimum; High-load type: 1,000,000 operations minimum

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
	6mm (not washable)							
1	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	4.3	SW400-ND	.26	5.95	10.57	19.03	B3F-1000
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	4.3	SW960-ND	.31	6.89	12.25	22.05	B3F-1100
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	4.3	SW401-ND	.31	6.89	12.25	22.05	B3F-1002
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	4.3	SW961-ND	.31	6.89	12.25	22.05	B3F-1102
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	4.3	SW793-ND	.30	6.71	11.92	21.46	B3F-1005
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 500gf	4.3	SW950-ND	.59	13.29	23.63	42.53	B3F-1006
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	5.0	SW402-ND	.31	6.89	12.25	22.05	B3F-1020
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	5.0	SW962-ND	.31	6.89	12.25	22.05	B3F-1120
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	5.0	SW403-ND	.31	6.89	12.25	22.05	B3F-1022
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	5.0	SW849-ND	.31	6.89	12.25	22.05	B3F-1122
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	5.0	SW794-ND	.34	7.59	13.49	24.28	B3F-1025
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	5.0	SW963-ND	.37	8.31	14.78	26.60	B3F-1125
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	9.5	SW406-ND	.34	7.59	13.49	24.28	B3F-1070
2	Tact Switch, Low Force, Projected Actuator without Ground Terminal — 100gf	7.3	SW404-ND	.31	6.89	12.25	22.05	B3F-1050
	Tact Switch, Low Force, Projected Actuator with Ground Terminal — 100gf	7.3	SW964-ND	.31	6.89	12.25	22.05	B3F-1150
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 150gf	7.3	SW405-ND	.31	6.89	12.25	22.05	B3F-1052
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 150gf	7.3	SW850-ND	.31	6.89	12.25	22.05	B3F-1152
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 260gf	7.3	SW795-ND	.50	11.17	19.85	35.73	B3F-1055
3	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	3.15	SW1049-ND	.42	9.50	16.89	30.40	B3F-3100
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	3.15	SW1050-ND	.42	9.50	16.89	30.40	B3F-3102
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	3.15	SW1051-ND	.51	11.47	20.39	36.70	B3F-3105
	Tact Switch, Low Force, Right Angle, Flat Actuator — 100gf	3.85	SW407-ND	.42	9.50	16.89	30.40	B3F-3120
	Tact Switch, Medium Force, Right Angle, Flat Actuator — 150gf	3.85	SW408-ND	.42	9.50	16.89	30.40	B3F-3122
	Tact Switch, High Force, Right Angle, Flat Actuator — 260gf	3.85	SW851-ND	.51	11.43	20.32	36.58	B3F-3125
4A	Tact Switch, Right Angle, SMT without Ground	—	SW1022CT-ND†	.90	20.24	35.99	64.78	B3U-3000P
	Tact Switch, Right Angle, SMT without Ground	—	SW1022TR-ND‡		1799.50/4,000			B3U-3000P
4B	Tact Switch, Right Angle, SMT with Ground	—	SW1023CT-ND†	.90	20.24	35.99	64.78	B3U-3100P
	Tact Switch, Right Angle, SMT with Ground	—	SW1023TR-ND‡		1799.50/4,000			B3U-3100P
	Tact Switch, Right Angle, SMT with Ground and Boss	—	SW1103CT-ND† ***NEW!***	.90	20.24	35.99	64.78	B3U-3100P-B
	Tact Switch, Right Angle, SMT with Ground and Boss	—	SW1103TR-ND‡ ***NEW!***		1799.50/4,000			B3U-3100P-B
5	Tact Switch, Low Force, Right Angle, Projected Actuator — 100gf	6.15	SW409-ND	.42	9.50	16.89	30.40	B3F-3150
	Tact Switch, Medium Force, Right Angle, Projected Actuator — 150gf	6.15	SW410-ND	.42	9.50	16.89	30.40	B3F-3152
	Tact Switch, High Force, Right Angle, Projected Actuator — 260gf	6.15	SW1052-ND	.51	11.47	20.39	36.70	B3F-3155
	6mm Gold Plated Contacts (not washable)							
1	Tact Switch, Flat Actuator without Ground Terminal — 150gf	4.3	SW787-ND	2.60	58.60	104.17	187.51	B3F-1002-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	4.3	SW789-ND	3.80	85.53	152.05	273.69	B3F-1102-G
	Tact Switch, Flat Actuator without Ground Terminal — 150gf	5.0	SW788-ND	2.60	58.60	104.17	187.51	B3F-1022-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	5.0	SW790-ND	2.74	61.65	109.60	197.28	B3F-1122-G
	6mm Process Sealed (not water washable)							
6	Tact Switch, SMT Flat Actuator without Ground Terminal — 160gf	4.3	SW415-ND	.60	13.56	24.10	43.38	B3S-1000
	Tact Switch, SMT Flat Actuator without Ground Terminal — 230gf	4.3	SW416-ND	.60	13.56	24.10	43.38	B3S-1002BYSOMZ
	Tact Switch, SMT Flat Actuator with Ground Terminal — 160gf	4.3	SW971-ND	.60	13.56	24.10	43.38	B3S-1100
	Tact Switch, SMT Flat Actuator with Ground Terminal — 230gf	4.3	SW972-ND	.60	13.56	24.10	43.38	B3S-1102
7	Tact Switch Flat Actuator without Ground Terminal — 160gf	4.3	SW417-ND	.51	11.39	20.24	36.43	B3W-1000BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 160gf	4.3	SW853-ND	.50	11.17	19.85	35.73	B3W-1100
	Tact Switch Flat Actuator without Ground Terminal — 230gf	4.3	SW418-ND	.51	11.39	20.24	36.43	B3W-1002BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 230gf	4.3	SW973-ND	.50	11.17	19.85	35.73	B3W-1102
8	Tact Switch Projected Actuator without Ground Terminal — 160gf	7.3	SW419-ND	.50	11.17	19.85	35.73	B3W-1050BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 160gf	7.3	SW974-ND	.50	11.17	19.85	35.73	B3W-1150
	Tact Switch Projected Actuator without Ground Terminal — 230gf	7.3	SW420-ND	.50	11.17	19.85	35.73	B3W-1052BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 230gf	7.3	SW975-ND	.50	11.17	19.85	35.73	B3W-1152
9A	Tact Switch Contact Type without Ground Terminal — 153gf	—	SW1020CT-ND†	.90	20.24	35.99	64.78	B3U-1000P
	Tact Switch Contact Type without Ground Terminal — 153gf	—	SW1020TR-ND‡		1574.56/3,500			B3U-1000P
9B	Tact Switch Contact Type with Ground Terminal — 153gf	—	SW1021CT-ND†	.90	20.24	35.99	64.78	B3U-1100P
	Tact Switch Contact Type with Ground Terminal — 153gf	—	SW1021TR-ND‡		1574.56/3,500			B3U-1100P
	Tact Switch Contact Type with Ground Terminal and Boss	—	SW1104CT-ND† ***NEW!***	.90	20.24	35.99	64.78	B3U-1100P-B
	Tact Switch Contact Type with Ground Terminal and Boss	—	SW1104TR-ND‡ ***NEW!***		1574.56/3,500			B3U-1100P-B
	12mm (not washable)							
6	Tact Switch, Long Service Life, Flat Actuator without Ground Terminal — 130gf	4.3	SW800-ND	.51	11.41	20.28	36.50	B3F-5000
	Tact Switch, Long Service Life, Flat Actuator with Ground Terminal — 130gf	4.3	SW852-ND	.61	13.76	24.46	44.03	B3F-5100
10	Tact Switch Standard, Flat Actuator without Ground Terminal — 130gf	4.3	SW411-ND	.42	9.50	16.89	30.40	B3F-4000
	Tact Switch Standard, Flat Actuator without Ground Terminal — 260gf	4.3	SW412-ND	.42	9.50	16.89	30.40	B3F-4005
	Tact Switch Standard, Flat Actuator with Ground Terminal — 260gf	4.3	SW966-ND	.51	11.41	20.28	36.50	B3F-4105
11	Tact Switch Standard, Projected Actuator without Ground Terminal — 130gf	7.3	SW413-ND	.42	9.50	16.89	30.40	B3F-4050
	Tact Switch Standard, Projected Actuator with Ground Terminal — 130gf	7.3	SW835-ND	.51	11.41	20.28	36.50	B3F-4150
	Tact Switch Standard, Projected Actuator without Ground Terminal — 260gf	7.3	SW414-ND	.42	9.50	16.89	30.40	B3F-4055
	Tact Switch Standard, Projected Actuator with Ground Terminal — 260gf	7.3	SW967-ND	.51	11.41	20.28	36.50	B3F-4155
	Tact Switch, Long Service Life, Projected Actuator w/out Ground Terminal — 130gf	7.3	SW801-ND	.51	11.41	20.28	36.50	B3F-5050
	Tact Switch, Long Service Life, Projected Actuator with Ground Terminal — 130gf	7.3	SW970-ND	.61	13.76	24.46	44.03	B3F-5150
	Tact Switch, Gold Plated Contact, Projected Actuator w/out Ground Term. — 130gf	7.3	SW969-ND	2.45	55.06	97.89	176.20	B3F-5051
	12mm Process Sealed (not water washable)							
12	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 200gf	4.3	SW421-ND	.61	13.64	24.24	43.63	B3W-4000BYOMZ
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 200gf	4.3	SW854-ND	.59	13.28	23.60	42.48	B3W-4100
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 350gf	4.3	SW976-ND	.61	13.64	24.24	43.63	B3W-4005
11	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 200gf	7.3	SW422-ND	.59	13.28	23.60	42.48	B3W-4050BYOMZ
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 200gf	7.3	SW839-ND	.59	13.28	23.60	42.48	B3W-4150
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 350gf	7.3	SW838-ND	.59	13.28	23.60	42.48	B3W-4055BYOMZ
	Tact Switch, High Force, Projected Actuator with Ground Terminal — 350gf	7.3	SW856-ND	.59	13.28	23.60	42.48	B3W-4155
	B3F and B3W Key Caps for Projected Actuator							
13	Key Cap 4 x 4mm Light Grey/Tan, Fits 6mm Projected Actuator Types	4.0	SW450-ND	.27	6.04	10.74	19.33	B32-1000
	Key Cap 4 x 4mm Black, Fits 6mm Projected Actuator Types	4.0	SW451-ND	.27	6.04	10.74	19.33	B32-1010
	Key Cap 4 x 4mm Orange, Fits 6mm Projected Actuator Types	4.0	SW845-ND	.27	6.04	10.74	19.33	B32-1020
	Key Cap 4 x 4mm Yellow, Fits 6mm Projected Actuator Types	4.0	SW249-ND	.27	6.04	10.74	19.33	B32-1030
	Key Cap 4 x 4mm Blue, Fits 6mm Projected Actuator Types	4.0	SW250-ND	.27	6.04	10.74	19.33	B32-1040
	Key Cap 4 x 4mm White, Fits 6mm Projected Actuator Types	4.0	SW251-ND	.27	6.04	10.74	19.33	B32-1060
	Key Cap 4 x 4mm Light Green, Fits 6mm Projected Actuator Types	4.0	SW953-ND	.27	6.04	10.74	19.33	B32-1070
	Key Cap 4 x 4mm Red, Fits 6mm Projected Actuator Types	4.0	SW252-ND	.27	6.04	10.74	19.33	B32-1080
14	Key Cap 9 x 9mm Light Grey/Tan, Fits 12mm Projected Actuator Types	9.0	SW452-ND	.27	6.04	10.74	19.33	B32-1200
	Key Cap 9 x 9mm Black, Fits 12mm Projected Actuator Types	9.0	SW453-ND	.27	6.04	10.74	19.33	B32-1210
	Key Cap 9 x 9mm Orange, Fits 12mm Projected Actuator Types	9.0	SW954-ND	.27	6.04	10.74	19.33	B32-1220
	Key Cap 9 x 9mm Yellow, Fits 12mm Projected Actuator Types	9.0	SW253-ND	.27	6.04	10.74	19.33	B32-1230
	Key Cap 9 x 9mm Blue, Fits 12mm Projected Actuator Types	9.0	SW254-ND	.27	6.04	10.74	19.33	B32-1240
	Key Cap 9 x 9mm Green, Fits 12mm Projected Actuator Types	9.0	SW846-ND	.27	6.04	10.74	19.33	B32-1250
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9.0	SW255-ND	.27	6.04	10.74	19.33	B32-1260

‡ Tape and Reel † Cut Tape

(Continued)

Fig. 1

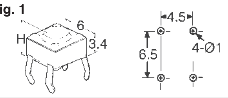

Fig. 2

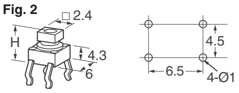

Fig. 3

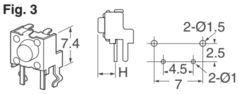

Fig. 4

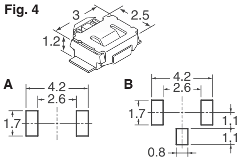

Fig. 5

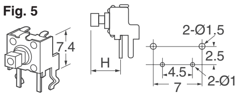

Fig. 6

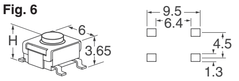

Fig. 7

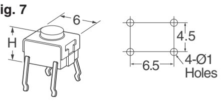

Fig. 8

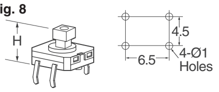

Fig. 9

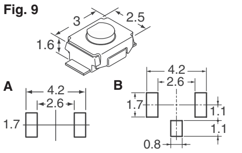

Fig. 10

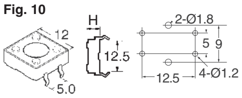

Fig. 11

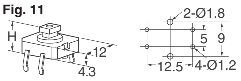

Fig. 12

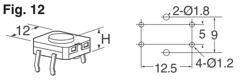

Fig. 13

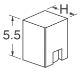

Fig. 14

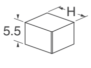

Fig. 15

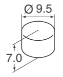

Fig. 16

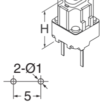

Fig. 17

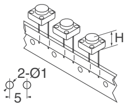

Fig. 18

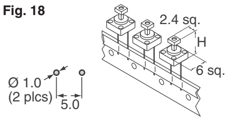

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON Momentary Tact Switches *(Cont.)*

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
14	Key Cap 9 x 9mm Light Green, Fits 12mm Projected Actuator Types	9.0	SW955-ND	.27	6.04	10.74	19.33	B32-1270
	Key Cap 9 x 9mm Red, Fits 12mm Projected Actuator Types	9.0	SW256-ND	.27	6.04	10.74	19.33	B32-1280
	Key Cap 12 x 12mm Light Grey/Tan, Fits 12mm Projected Actuator Types	12.0	SW454-ND	.27	6.04	10.74	19.33	B32-1300
	Key Cap 12 x 12mm Black, Fits 12mm Projected Actuator Types	12.0	SW455-ND	.27	6.04	10.74	19.33	B32-1310
	Key Cap 12 x 12mm Orange, Fits 12mm Projected Actuator Types	12.0	SW956-ND	.27	6.04	10.74	19.33	B32-1320
	Key Cap 12 x 12mm Yellow, Fits 12mm Projected Actuator Types	12.0	SW257-ND	.27	6.04	10.74	19.33	B32-1330
	Key Cap 12 x 12mm Blue, Fits 12mm Projected Actuator Types	12.0	SW258-ND	.27	6.04	10.74	19.33	B32-1340
	Key Cap 12 x 12mm Green, Fits 12mm Projected Actuator Types	12.0	SW957-ND	.27	6.04	10.74	19.33	B32-1350
	Key Cap 12 x 12mm White, Fits 12mm Projected Actuator Types	12.0	SW259-ND	.27	6.04	10.74	19.33	B32-1360
	Key Cap 12 x 12mm Light Green, Fits 12mm Projected Actuator Types	12.0	SW958-ND	.30	6.76	12.01	21.62	B32-1370
	Key Cap 12 x 12mm Red, Fits 12mm Projected Actuator Types	12.0	SW260-ND	.27	6.04	10.74	19.33	B32-1380
15	Key Cap 9.5mm Diameter, Black, Fits 12mm Projected Actuator Types	—	SW847-ND	.38	8.48	15.08	27.14	B32-1610
	Key Cap 9.5mm Diameter, Orange, Fits 12mm Projected Actuator Types	—	SW959-ND	.38	8.48	15.08	27.14	B32-1620
	Key Cap 9.5mm Diameter, Yellow, Fits 12mm Projected Actuator Types	—	SW848-ND	.38	8.48	15.08	27.14	B32-1630
—	Key Cap 9 x 9mm Light Grey, Fits 6mm Projected Actuator Types	9.0	SW891-ND	.30	6.76	12.02	21.64	B32-1400

‡ Tape and Reel † Cut Tape

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Omron Part No.
	6mm Long Stroke Tact Switches									
16	Tact Switch with Long Stroke and Positive Click — 70gf	7.3	SW426-ND	.84	19.00	33.77	—	—	—	B3M-6009
	6mm Auto Placement; Flat Actuators (not washable)									
17	Tact Switch Auto-Placement 6mm Square — 100gf	4.3	SW263CT-ND†	.37	8.30	14.75	SW263TB-NDΔ	1,000	184.38	B3F-6000BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	4.3	SW797-ND	.34	7.69	13.67	—	—	—	B3F-6002BYOMZ
	Tact Switch Auto-Placement 6mm Square — 100gf	5.0	SW796-ND	.37	8.24	14.64	—	—	—	B3F-6050BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	5.0	SW264CT-ND†	.38	8.53	15.17	SW264TB-NDΔ	1,000	189.63	B3F-6022BYOMZ
	6mm Auto Placement; Projected Actuators (not washable)									
18	Tact Switch Auto-Placement 6mm Square — 100gf	7.3	SW798-ND	.42	9.48	16.85	—	—	—	B3F-6050
	Tact Switch Auto-Placement 6mm Square — 150gf	7.3	SW799-ND	.39	8.70	15.46	—	—	—	B3F-6052BYOMZ
19	Tact Switch Auto-Placement, Water Tight, Dust Sealed	—	SW425CT-ND†	.57	12.89	22.92	SW425TB-NDΔ	1,000	286.50	B3WN-6002
	6mm Middle Stroke Tact Switches									
20A	SMT Sealed Tact Switch with Middle Stroke and Crisp Clicking Action — 200gf	3.4	SW1064CT-ND†	.64	14.36	25.52	SW1064TR-ND	2,000	319.00/M	B3SL-1002P
	SMT Sealed Tact Switch with Middle Stroke and Crisp Clicking Action — 200gf	5.1	SW1065CT-ND†	.67	15.15	26.93	SW1065TR-ND	1,400	363.56/M	B3SL-1022P
	6mm Process Sealed (not water washable)									
20B	SMT Flat Actuator without Ground Terminal — 160gf	3.1	SW261CT-ND†	.90	20.18	35.88	SW261TR-ND	3,000	448.50/M	B3SN-3012P
	SMT Flat Actuator with Ground Terminal — 160gf	3.1	SW262CT-ND†	.90	20.18	35.88	SW262TR-ND	3,000	448.50/M	B3SN-3112P
21A	SMT Tact Switch 6mm Square (snap-action) — 100gf	3.1	SW423CT-ND†	.51	11.53	20.49	SW423TR-ND	3,000	307.35/M	B3FS-1000P
	SMT Tact Switch 6mm Square (snap-action) — 150gf	3.1	SW424CT-ND†	.51	11.53	20.49	SW424TR-ND	3,000	307.35/M	B3FS-1002P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW836CT-ND†	.62	14.02	24.92	SW836TR-ND	1,000	311.50	B3S-1000P
	SMT Tact Switch 6mm Square — 230gf	4.3	SW837CT-ND†	.73	16.33	29.03	SW837TR-ND	1,000	362.88	B3S-1002P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW844CT-ND†	.59	13.33	23.70	SW844TR-ND	1,000	296.25	B3S-1100P
21B	SMT Tact Switch 6mm Square — 150gf	4.3	SW1082-ND	.57	12.85	22.85	—	—	—	B3FS-1012
	6mm Process Sealed; Projected Actuators (not water washable)									
22	SPST Tact Switch 6mm Square (snap-action) — 100gf	7.3	SW791-ND	1.96	44.14	78.47	—	—	—	B3FS-1050
	SPST Tact Switch 6mm Square (snap-action) — 150gf	7.3	SW792-ND	1.90	42.85	76.18	—	—	—	B3FS-1052
	Ultra-low Profile Dome									
23	Dome Key, Stainless Steel, 4mm diameter	—	SW978-ND	.27	6.13	10.89	—	—	—	B3D-4112
	Dome Key, Stainless Steel, 5mm diameter	—	SW979-ND	.27	6.13	10.89	—	—	—	B3D-5112
24	Dome Array Sheet, Stainless Steel, 5mm diameter	—	SW1018-ND	2.88	64.88	115.35	—	—	—	B3DA-0000-A
	Dome Array Sheet, Stainless Steel, 4mm diameter	—	SW1019-ND	2.88	64.88	115.35	—	—	—	B3DA-0010-A

Δ Tape and Box † Cut Tape

Fig. 19 — Sealed

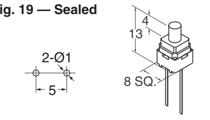

Fig. 20

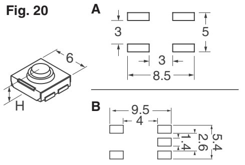

Note: Eliminate center pad for "without GND Terminal"

Fig. 21

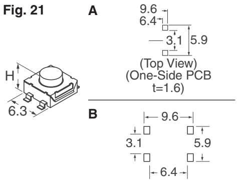

Fig. 22

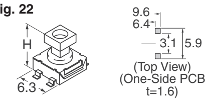

Fig. 23

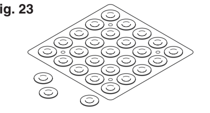

Fig. 24

Note: Sold in sheets of 18 domes

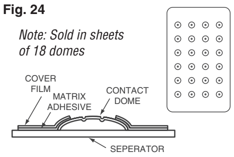

Illuminated Tact Switches

Features: • Bright and uniform illumination • Uniquely constructed diffusion panel • Snap-action contact construction for a positive click action • High contact reliability • Sealed switch part provides high contact reliability against dust
Specifications: • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ maximum • **Bounce Time:** 5ms maximum • **Vibration Resistance:** Malfunction: 10 ~ 55Hz, 1.5mm double amplitude • **Shock Resistance:** Destruction: 1,000m/s^2 (approximately 100G) maximum, Malfunction: 100m/s^2 (approximately 10G) maximum • **Ambient Operating Temperature:** -25°C ~ 70°C • **Service Life:** • Standard force 1.57 N: 1,000,000 operations minimum • **Contact Configuration:** SPST-NO

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Single Red LED, Red Cap	SW1034-ND	2.61	2.35	2.09	B3W-9000-R1R
Single Green LED, Green Cap	SW1035-ND	2.61	2.35	2.09	B3W-9000-G1G
Single Yellow LED, Yellow Cap	SW1036-ND	2.61	2.35	2.09	B3W-9000-Y1Y
Single Blue LED, Blue Cap	SW1037-ND	4.19	3.78	3.36	B3W-9000-B1B
Dual Red-Green LED, Milky white Cap	SW1038-ND	3.47	3.13	2.78	B3W-9000-RG2N
Single Blue LED, Milky white Cap	SW1039-ND	4.19	3.78	3.36	B3W-9000-B1N
Single Red LED, Milky white Cap	SW1040-ND	2.61	2.35	2.09	B3W-9000-R1N
Single Yellow LED, Milky white Cap	SW1041-ND	2.61	2.35	2.09	B3W-9000-Y1N
Single Green LED, Milky white Cap	SW1042-ND	2.61	2.35	2.09	B3W-9000-G1N

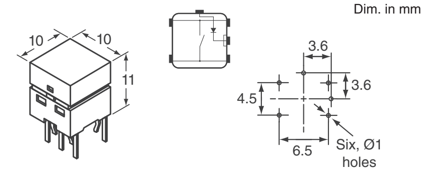

D3SH Miniature Detection Switches

Omron's ultra small size and ultra low profile detector switch is one of the smallest designs in the industry. Offered in both left actuation and right actuation versions in both standard lever and extended-long lever types. Although designed for camera door detection originally, the compact size of this switch makes it an ideal detector switch for portable equipment.
Specifications:
• **Contact Resistance:** 3Ω maximum • **Vibration Resistance:** Malfunction: 10 ~ 55Hz, 1.5mm double amplitude • **Shock Resistance:** Destruction: 1,000m/s^2 (approximately 100G) maximum, Malfunction: 300m/s^2 (approximately 30G) maximum • Switch Function: OFF-MOM
• **Ambient Operating Temperature:** -25°C ~ 85°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	T & R Pricing 1,000	Omron Part No.
Standard Lever, Right with Boss	SW1043CT-ND	1.34	1.21	1.07	SW1043TR-ND	668.25	D3SH-A1R
Standard Lever, Right without Boss	SW1044CT-ND	1.34	1.21	1.07	SW1044TR-ND	668.25	D3SH-A0R
Standard Lever, Left with Boss	SW1045CT-ND	1.34	1.21	1.07	SW1045TR-ND	668.25	D3SH-A1L
Standard Lever, Left without Boss	SW1048CT-ND	1.34	1.21	1.07	SW1048TR-ND	668.25	D3SH-A0L
Long Lever, Right with Boss	SW1046CT-ND	1.34	1.21	1.07	SW1046TR-ND	668.25	D3SH-A1R1
Long Lever, Right without Boss	SW1047CT-ND	1.34	1.21	1.07	SW1047TR-ND	668.25	D3SH-A0R1
Long Lever, Left with Boss	SW1087CT-ND ***NEW!***	1.34	1.21	1.07	SW1087TR-ND ***NEW!***	721.71	D3SH-A1L1

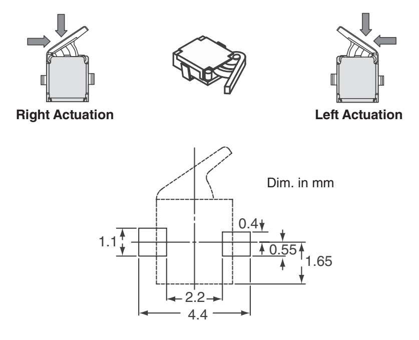

E•SWITCH®

Tact Switches TL1100 Series

Specifications: • Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 160 ±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

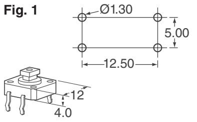

Fig. 2

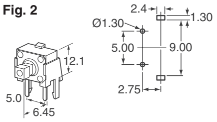

Fig. 3

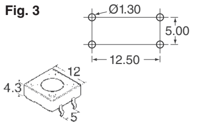

Fig. 4

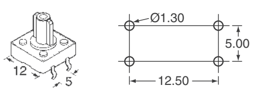

Fig. 5

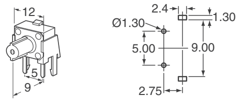

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	12mm Square Extended Actuator, Length 7.3	EG1821-ND	.48	.44	.38	TL1100F160Q
2	Right Angle 12mm Square Ext. Act., Length 7.3	EG1822-ND	.48	.44	.38	TL1100CF160Q
3	12mm Square Flat Actuator	EG1023-ND	.48	.44	.38	TL1100DF160Q
	12mm Square Long Flat Actuator	EG1826-ND	.48	.44	.38	TL1100EF160Q
4	12mm Square Post Actuator, Length 12.0	EG1024-ND	.41	.37	.32	TL1100FF160Q
5	12mm Square R/A Post Actuator, Length 9.0	EG1025-ND	.69	.62	.53	TL1100GF160Q
	Key Caps					
—	W=12 x 12mm Black Fits 12mm Ext. Act. Types	EG1080-ND	.19	.17	.15	4JBLK
	W=12 x 12mm Grey Fits 12mm Ext. Act. Types	EG1079-ND	.19	.17	.15	4JGRY
	W=12 x 12mm Red Fits 12mm Ext. Act. Types	EG1078-ND	.19	.17	.15	4JRED
	W=12 x 12mm White Fits 12mm Ext. Act. Types	EG1077-ND	.19	.17	.15	4JWHT
	W=8 x 8mm Black Fits, 12mm Ext. Act. Types	EG1885-ND	.19	.17	.15	6JBLK
	W=8 x 8mm Red Fits, 12mm Ext. Act. Types	EG1886-ND	.19	.17	.15	6JRED
	W=8 x 8mm White Fits 12mm Ext. Act. Types	EG1887-ND	.19	.17	.15	6JWHT
	W=8 x 8mm Grey Fits 12mm Ext. Act. Types	EG1888-ND	.19	.17	.15	6JGRY

Tact Switches TL1105 Series

Specifications: • Contact Rating: 50mA @ 12VDC (50mA @ 50VDC gold) • Life Expectancy: 100,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 100 ±50gf, 160 ±50gf, 250 ±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

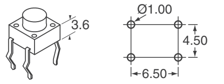

Fig. 2

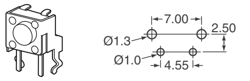

Fig. 3

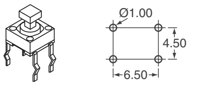

Fig. 4

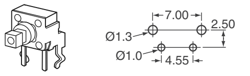

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	6mm Square 4.3mm Actuator 100gf	EG2494-ND	.20	.18	.15	TL1105F100Q
	6mm Square 4.3mm Actuator 160gf	EG1827-ND	.20	.18	.15	TL1105F160Q
	6mm Square 4.3mm Actuator 160gf with ESD	EG2490-ND	.30	.27	.23	TLE1105F160Q
	6mm Square 4.3mm Actuator 250gf	EG1828-ND	.20	.18	.15	TL1105F250Q
	6mm Square 5mm Actuator 100gf	EG2495-ND	.29	.26	.22	TL1105AF100Q
	6mm Square 5mm Actuator 160gf	EG1829-ND	.29	.26	.22	TL1105AF160Q
	6mm Square 5mm Actuator 160gf with ESD	EG2491-ND	.30	.27	.23	TLE1105AF160Q
	6mm Square 5mm Actuator 250gf	EG1830-ND	.29	.26	.22	TL1105AF250Q
	6mm Square 7.0mm Actuator 160gf	EG4369-ND	.20	.18	.15	TL1105FF160Q
	6mm Square 7.3mm Actuator 100gf	EG2496-ND	.20	.18	.15	TL1105EF100Q
	6mm Square 7.3mm Actuator 160gf	EG1831-ND	.20	.18	.15	TL1105EF160Q
	6mm Square 7.3mm Actuator 250gf	EG1832-ND	.20	.18	.15	TL1105EF250Q
	6mm Square 8.5mm Actuator 160gf	EG4371-ND	.20	.18	.15	TL1105PF160Q
	6mm Square 9.5mm Actuator 100gf	EG2497-ND	.20	.18	.15	TL1105BF100Q
	6mm Square 9.5mm Actuator 160gf	EG1833-ND	.20	.18	.15	TL1105BF160Q
	6mm Square 9.5mm Actuator 250gf	EG1834-ND	.20	.18	.15	TL1105BF250Q
	6mm Square 13mm Actuator 100gf	EG2498-ND	.20	.18	.15	TL1105DF100Q
	6mm Square 13mm Actuator 160gf	EG1865-ND	.20	.18	.15	TL1105DF160Q
	6mm Square Gold Plating 13mm Actuator 160gf	EG4565-ND	1.01	.91	.78	TL1105DF160R
	6mm Square 13mm Actuator 250gf	EG1866-ND	.20	.18	.15	TL1105DF250Q
	6mm Square 17mm Actuator 100gf	EG2504-ND	.32	.29	.25	TL1105LF100Q
	6mm Square 17mm Actuator 160gf	EG2505-ND	.32	.29	.25	TL1105LF160Q
	6mm Square 17mm Actuator 250gf	EG2506-ND	.32	.29	.25	TL1105LF250Q
2	6mm Square Right Angle 3.15mm Actuator 100gf	EG2499-ND	.37	.33	.29	TL1105WF100Q
	6mm Square Right Angle 3.15mm Actuator 160gf	EG1835-ND	.37	.33	.29	TL1105WF160Q
	6mm Square Right Angle 3.15mm Actuator 250gf	EG1836-ND	.37	.33	.29	TL1105WF250Q
	6mm Square Right Angle 3.85mm Actuator 100gf	EG2507-ND	.37	.33	.29	TL1105VF100Q
	6mm Square Right Angle 3.85mm Actuator 160gf	EG2508-ND	.37	.33	.29	TL1105VF160Q
	6mm Square Right Angle 3.85mm Actuator 250gf	EG2509-ND	.39	.35	.30	TL1105VF250Q
	6mm Square Right Angle 5.85mm Actuator 100gf	EG4559-ND	.37	.33	.29	TL1105XF100Q
	6mm Square Right Angle 5.85mm Actuator 160gf	EG4372-ND	.39	.36	.31	TL1105XF160Q
	6mm Square Right Angle 5.85mm Actuator 160gf	EG4373-ND	1.37	1.22	1.05	TL1105XF160Q94V0
	6mm Square Right Angle 5.85mm Actuator 250gf	EG4560-ND	.37	.33	.29	TL1105XF250Q
	6mm Square Right Angle 6.15mm Actuator 160gf	EG1837-ND	.37	.33	.29	TL1105RF160Q
	6mm Square Right Angle 6.15mm Actuator 250gf	EG1838-ND	.37	.33	.29	TL1105RF250Q
	6mm Square Right Angle 6.85mm Actuator 160gf	EG4370-ND	.37	.33	.29	TL1105MF160Q
	6mm Square Right Angle 8.35mm Actuator 100gf	EG2501-ND	.37	.33	.29	TL1105SF100Q
2	6mm Square Right Angle 8.35mm Actuator 160gf	EG1839-ND	.37	.33	.29	TL1105SF160Q
	6mm Square Right Angle 8.35mm Actuator 250gf	EG1840-ND	.37	.33	.29	TL1105SF250Q
3	6mm Square 7.5mm Extended Actuator 100gf	EG2502-ND	.29	.26	.22	TL1105SPF100Q
	6mm Square 7.5mm Extended Actuator 160gf	EG1861-ND	.29	.26	.22	TL1105SPF160Q
	6mm Square 7.5mm Extended Actuator 250gf	EG1862-ND	.29	.26	.22	TL1105SPF250Q
4	6mm Square R/A 2.8mm Ext. Actuator 100gf	EG2503-ND	.51	.46	.39	TL1105JAF100Q
	6mm Square R/A 2.8mm Ext. Actuator 160gf	EG1863-ND	.51	.46	.39	TL1105JAF160Q
	6mm Square R/A 2.8mmExt. Actuator 250gf	EG1864-ND	.51	.46	.39	TL1105JAF250Q

Radial Lead Tact Switches TL59 Series

Digi-Reel®

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 100 ±50gf, 160 ±50gf, 260 ±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

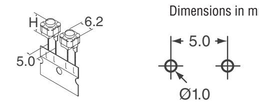

Description	H Dim. (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
6.2mm Square, Actuator 160gf	4.3	EG2532CT-ND	.33	.27	.24	TL59NF160Q
6.2mm Square, Actuator 160gf	4.3	EG2532TB-ND†	127.60/1,000			TL59NF160Q
6.2mm Square, Actuator 260gf	4.3	EG4568CT-ND	.33	.27	.24	TL59NF260Q
6.2mm Square, Actuator 260gf	4.3	EG4568TB-ND†	127.60/1,000			TL59NF260Q
6.2mm Square, Actuator 100gf	5.00	EG4378CT-ND	.33	.27	.24	TL59AF100Q
6.2mm Square, Actuator 100gf	5.00	EG4378TB-NDΔ	127.60/1,000			TL59AF100Q
6.2mm Square, Actuator 160gf	5.00	EG2533CT-ND	.33	.27	.24	TL59AF160Q
6.2mm Square, Actuator 160gf	5.00	EG2533TB-ND†	127.60/1,000			TL59AF160Q
6.2mm Square, Actuator 160gf	7.00	EG4566CT-ND	.33	.27	.24	TL59FF160Q
6.2mm Square, Actuator 160gf	7.00	EG4566TB-NDΔ	127.60/1,000			TL59FF160Q
6.2mm Square, Actuator 260gf	7.00	EG4567CT-ND	.32	.26	.23	TL59FF260Q
6.2mm Square, Actuator 260gf	7.00	EG4567TB-NDΔ	123.25/1,000			TL59FF260Q

† Tape and Box Δ Tape and Reel

Dual Tact Switches TL53 Series

Specifications:

Dimensions in mm

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 160 ±50gf • Operating Temperature: -20°C ~ 70°C

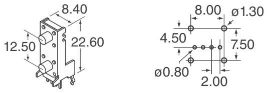

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Dual Tact, 5.85mm Actuator 160gf	EG4600-ND	1.56	1.40	1.21	TL53BF160Q
Dual Tact, 6.15mm Actuator 160gf	EG4601-ND	1.56	1.40	1.21	TL53CF160Q
Dual Tact, 7.35mm Actuator 160gf	EG4603-ND	1.56	1.40	1.21	TL53EF160Q

Dual Tact Switches TL2243 Series

Specifications:

Dimensions in mm

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 50,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 180 ±50gf • Operating Temperature: -20°C ~ 70°C

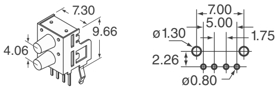

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Dual Tact, 6.80mm Actuator 180gf	EG4606-ND	.64	.58	.50	TL2243

Rectangular Tact Switches TL1107 Series

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 50,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Operating Force: 130 ±50gf, 180 ±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

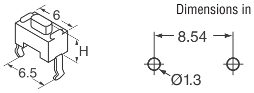

Description	H Dim. (mm)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
6 x 3.5mm, 130gf	4.3	EG2510-ND	.38	.34	.30	TL1107AF130WQ
6 x 3.5mm, 180gf	4.3	EG2511-ND	.38	.34	.30	TL1107AF180WQ
6 x 3.5mm, 130gf	5.0	EG2512-ND	.38	.34	.30	TL1107BF130WQ
6 x 3.5mm, 180gf	5.0	EG2513-ND	.38	.34	.30	TL1107BF180WQ

Tact Switches TL1140 Series

Specifications:

• Contact Rating: 50mA @ 30VDC • Life Expectancy: 1,000,000 cycles • Contact Resistance: 100mΩ @ 5VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 70 ±20gf • Operating Temperature: -25°C ~ 85°C

Dimensions in mm

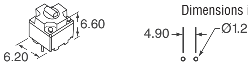

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
2-Lead, 6.2mm Square, 70gf	EG4413-ND	.60	.54	.46	TL1140AF070Q

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tact Switches TL52 Series

Specifications:

• Contact Rating: 50mA @ 12VDC • Mechanical Life: 100,000 cycles • Contact Resistance: 100mΩ • Insulation resistance: 100MΩ minimum @ 100VDC • Operating Temperature: -25°C ~ 85°C

Dimensions in mm

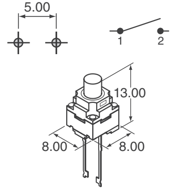

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	E-Switch Part No.
260 gf	EG4672CT-ND	.79	6.30	56.70	TL52AF260Q
260 gf	EG4672TR-NDΔ	304.50/1,000			TL52AF260Q
160 gf	EG4673CT-ND	.79	6.30	56.70	TL52AF160Q
160 gf	EG4673TR-NDΔ	304.50/1,000			TL52AF160Q

Δ Tape and Reel

Soft Touch Tact Switches TL9000 Series

Dimensions in mm

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles minimum • Contact Resistance: 1,000mΩ • Insulation resistance: 100MΩ minimum • Actuation Force: 120 ±50gf • Operating Temperature: -20°C ~ 70°C

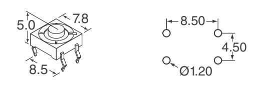

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
7.8mm Square 5.0mm Actuator 120gf	EG4346-ND	.43	.38	.33	TL9000F120QG

Process Sealed Tact Switches TL61xx Series

Specifications:

• Contact Rating: 50mA @ 50VDC • Life Expectancy: 50,000 cycles • Contact Resistance: 50mΩ maximum typical @ 5VDC • Insulation resistance: 10,000MΩ minimum • Actuation Force: 130 ±50gf, 160 ±50gf, 300 ±50gf • Operating Temperature: -40°C ~ 85°C

Dimensions in mm

Fig. 1

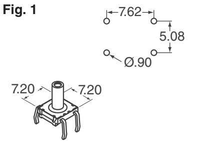

Fig. 2

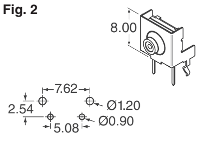

Fig. 3

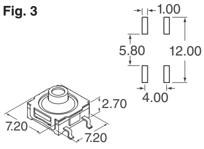

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	4.7mm Actuator 130gf	EG2638-ND	1.25	1.12	.96	TL6100AF130QP
	4.7mm Actuator 160gf	EG2639-ND	1.25	1.12	.96	TL6100AF160QP
	4.7mm Actuator 300gf	EG2640-ND	1.26	1.13	.97	TL6100AF300QP
	5.2mm Actuator 130gf	EG2641-ND	1.25	1.12	.96	TL6100BF130QP
	5.2mm Actuator 160gf	EG2642-ND	1.26	1.13	.97	TL6100BF160QP
	5.2mm Actuator 300gf	EG2643-ND	1.26	1.13	.97	TL6100BF300QP
	6.9mm Actuator 130gf	EG2644-ND	.63	.56	.49	TL6100CF130QP
	6.9mm Actuator 160gf	EG2645-ND	1.26	1.13	.97	TL6100CF160QP
	6.9mm Actuator 300gf	EG2646-ND	1.26	1.13	.97	TL6100CF300QP
	10mm Actuator 130gf	EG2647-ND	.63	.56	.49	TL6100DF130QP
	10mm Actuator 160gf	EG2648-ND	1.26	1.13	.97	TL6100DF160QP
	10mm Actuator 160gf with ESD Pin	EG2653-ND	1.46	1.31	1.13	TL6105DF160QP
	10mm Actuator 300gf	EG2649-ND	1.26	1.13	.97	TL6100DF300QP
2	3.5mm Right Angle Actuator 130gf	EG4362-ND	1.41	1.27	1.09	TL6110AF130QP
	3.5mm Right Angle Actuator 160gf	EG4361-ND	1.41	1.27	1.09	TL6110AF160QP
	4.0mm Right Angle Actuator 130gf	EG4347-ND	1.41	1.27	1.09	TL6110BF130QP
	4.0mm Right Angle Actuator 300gf	EG4348-ND	1.42	1.27	1.10	TL6110BF300QP
	5.7mm Right Angle Actuator 160gf	EG4349-ND	1.44	1.29	1.11	TL6110CF160QP
	8.7mm Right Angle Actuator 160gf	EG4359-ND	1.44	1.29	1.11	TL6110DF160QP
	8.7mm Right Angle Actuator 300gf	EG4360-ND	1.45	1.30	1.12	TL6110DF300QP
3	SMT 4.7mm Actuator 160gf	EG4350CT-ND§	1.64	1.32	1.19	TL6120AF160QG
	SMT 4.7mm Actuator 160gf	EG4350TR-NDΔ	635.10/1,000			TL6120AF160QG
	SMT 4.7mm Actuator 300gf	EG4354CT-ND§▲	1.64	1.32	1.19	TL6120AF300QG
	SMT 4.7mm Actuator 300gf	EG4354TR-NDΔ	635.10/1,000			TL6120AF300QG
	SMT 5.2mm Actuator 130gf	EG4351CT-ND§	1.64	1.32	1.19	TL6120BF130QG
	SMT 5.2mm Actuator 130gf	EG4351TR-NDΔ	635.10/1,000			TL6120BF130QG
	SMT 5.2mm Actuator 300gf	EG4352CT-ND§	1.64	1.32	1.19	TL6120BF300QG
	SMT 5.2mm Actuator 300gf	EG4352TR-NDΔ	635.10/1,000			TL6120BF300QG
	SMT 6.9mm Actuator 160gf	EG4353CT-ND§	1.64	1.32	1.19	TL6120CF160QG
	SMT 6.9mm Actuator 160gf	EG4353TR-NDΔ	536.55/700			TL6120CF160QG
	SMT 6.9mm Actuator 300gf	EG4355CT-ND§	1.64	1.32	1.19	TL6120CF300QG
	SMT 6.9mm Actuator 300gf	EG4355TR-NDΔ	536.55/700			TL6120CF300QG
	SMT 10mm Actuator 300gf	EG4356CT-ND§	1.64	1.32	1.19	TL6120DF300QG
	SMT 10mm Actuator 300gf	EG4356TR-NDΔ	262.80/300			TL6120DF300QG

§ Cut Tape Δ Tape and Reel

▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Subminiature Tact Switch Sample Kit

Kit includes 10 each of denoted switches from the following series denoted: TL6120, TL3315, TL3350, TL3301, TL3302, TL3303, TL3310, TL1015, TL3320, TL3330, TL3342, TL3340, TL6700, TL1014, TL3200.

▲ **EG4626-ND** 160 Pieces Total **$32.00**

Tact Switches TL1150 Series

Dimensions in mm

Specifications:

• Contact Rating: 50mA @ 30VDC • Life Expectancy: 1,000,000 cycles • Contact Resistance: 100mΩ @ 5VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 70 ±20gf • Operating Temperature: -25°C ~ 85°C

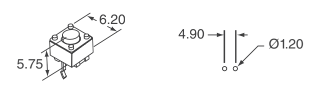

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
2-Lead, 6x6mm, 70gf	EG4414-ND	.54	.49	.42	TL1150AF070Q

Process Sealed Tact Switches GS Series

Dimensions in mm

Specifications:

- Contact Rating: 30mA @ 12VDC
- Life Expectancy: 400,000 cycles
- Contact Resistance: 50mΩ initial
- Insulation resistance: 100MΩ minimum
- Operating Force: 130 ±40gf
- Operating Temperature: -40°C ~ 80°C

Fig. 1

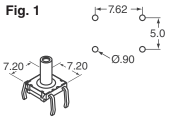

Fig. 2

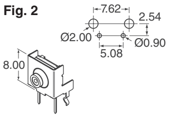

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	4.7mm Actuator 130gf	EG2517-ND	.95	.85	.74	GS4.70F130QP
	4.7mm Actuator 300gf	EG2518-ND	.95	.85	.74	GS4.70F300QP
	10mm Actuator 130gf	EG2519-ND	.95	.85	.74	GS10.00F130QP
	10mm Actuator 300gf	EG2520-ND	.95	.85	.74	GS10.00F300QP
2	6.34mm Right Angle Actuator 130gf	EG2521-ND	1.15	1.03	.89	GSR6.34F130QR

Low Profile Tact Switches TL3315 Series

Dimensions in mm

Specifications:

• Contact Rating: 50mA @ 15VDC • Contact Resistance: 200mΩ initial maximum • Insulation Resistance: 50MΩ minimum @ 100VDC • Operating Force: 100 ±30gf, 160 ±50gf, 250 ±50gf • Operating Temperature: -20°C ~ 70°C

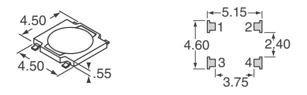

Operating Force (gf)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	E-Switch Part No.
100	EG4620CT-ND	.20	1.62	14.58	TL3315NF100Q
	EG4620TR-NDΔ	337.50/5,000			TL3315NF100Q
160	EG4621CT-ND▲	.20	1.62	14.58	TL3315NF160Q
	EG4621TR-NDΔ	337.50/5,000			TL3315NF160Q
250	EG4622CT-ND	.20	1.62	14.58	TL3315NF250Q
	EG4622TR-NDΔ	337.50/5,000			TL3315NF250Q

Δ Tape and Reel

▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Dual Action Tact Switches TL3350 Series

Specifications: • Contact Rating: 30VDC @ 20mA • Life Cycle: 10,000 minimum • Contact Resistance: 200mΩ maximum • Stroke: 1st - 0.30 ±0.10, 2nd - 0.55 ±0.15. • Actuation Forces: 1st - 100 ±40gf, 2nd - 250 ±80gf

Dimensions in mm

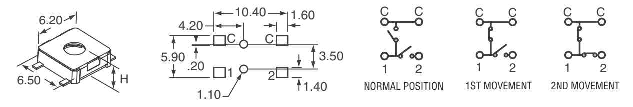

Function	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,200	E-Switch Part No.
Without Actuator	2.00	EG4411CT-ND	1.27	1.02	.92	EG4411TR-ND	491.55/M	TL3350AF100Q
With Actuator	3.80	EG4412CT-ND▲	1.27	1.02	.92	EG4412TR-ND	491.55/M	TL3350BF100Q

▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

E•SWITCH®

SMT Tact Switches TL3301 Series

Specifications: • Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles typical • Contact Resistance: 100mΩ maximum initial @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 160±50gf, 260±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

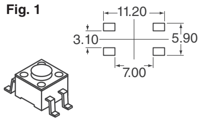

Fig. 2

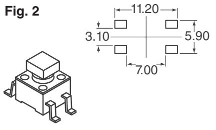

Fig. 3

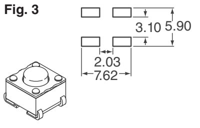

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
			1	10	100	
1	6mm Square SMT 4.3mm Actuator 160gf	EG1867CT-ND	.53	.43	.39	TL3301NF160QG/TR
	6mm Square SMT 4.3mm Actuator 160gf	EG1867TR-NDΔ	204.45/1,000			TL3301NF160QG/TR
	6mm Square SMT 4.3mm Actuator 260gf	EG1868CT-ND▲	.53	.43	.39	TL3301NF260QG
	6mm Square SMT 4.3mm Actuator 260gf	EG1868TR-NDΔ	204.45/1,000			TL3301NF260QG
	6mm Square SMT 5.0mm Act. 160gf Gull Wing	EG2526CT-ND	.53	.43	.39	TL3301AF160QG
	6mm Square SMT 5.0mm Act. 160gf Gull Wing	EG2526TR-NDΔ	204.45/1,000			TL3301AF160QG
	6mm Square SMT 5.0mm Act. 260gf Gull Wing	EG2527CT-ND	.53	.43	.39	TL3301AF260QG
	6mm Square SMT 5.0mm Act. 260gf Gull Wing	EG2527TR-NDΔ	204.45/1,000			TL3301AF260QG
	6mm Square SMT 7.0mm Actuator 160gf	EG4375CT-ND	.53	.43	.39	TL3301FF160QG
	6mm Square SMT 7.0mm Actuator 160gf	EG4375TR-NDΔ	172.73/700			TL3301FF160QG
	6mm Square SMT 8.5mm Act. 160gf Gull Wing	EG4562CT-ND	.53	.43	.39	TL3301PF160QG
	6mm Square SMT 8.5mm Act. 160gf Gull Wing	EG4562TR-NDΔ	160.39/650			TL3301PF160QG
2	6mm Square SMT 7.3mm Ext. Actuator 160gf	EG1869CT-ND	.53	.43	.39	TL3301SPF160QG
	6mm Square SMT 7.3mm Ext. Actuator 160gf	EG1869TR-NDΔ	172.73/700			TL3301SPF160QG
	6mm Square SMT 7.3mm Ext. Actuator 260gf	EG1870CT-ND	.53	.43	.39	TL3301SPF260QG
	6mm Square SMT 7.3mm Ext. Actuator 260gf	EG1870TR-NDΔ	172.73/700			TL3301SPF260QG
3	6mm Square SMT 4.3mm Actuator 160gf J-Lead	EG4376CT-ND	.61	.49	.45	TL3301NF160QJ
	6mm Square SMT 4.3mm Actuator 160gf J-Lead	EG4376TR-NDΔ	259.99/1,100			TL3301NF160QJ
	6mm Square SMT 5.0mm Actuator 160gf J-Lead	EG4374CT-ND	.61	.49	.45	TL3301AF160QJ
	6mm Square SMT 5.0mm Actuator 160gf J-Lead	EG4374TR-NDΔ	259.99/1,100			TL3301AF160QJ

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Rectangular SMT Tact Switches TL3302 Series

Specifications: • Contact Rating: 50mA @ 12VDC • Life Expectancy: 50,000 cycles • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 130±50gf, 180±50gf, 260±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

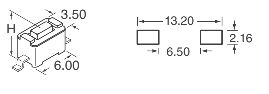

Fig. 2

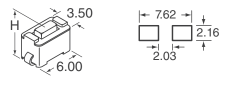

Fig.	Description	H Dim. (mm)	Actuation Force (gf)	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
					1	10	100	
1	6 x 3.5mm, Gull Wing	4.3	180	EG2528CT-ND	.72	.58	.52	TL3302AF180QG
	6 x 3.5mm, Gull Wing	4.3	180	EG2528TR-NDΔ	498.51/1,800			TL3302AF180QG
	6 x 3.5mm, Gull Wing	5.0	180	EG2529CT-ND▲	.72	.58	.52	TL3302BF180QG/TR
	6 x 3.5mm, Gull Wing	5.0	180	EG2529TR-NDΔ	498.51/1,800			TL3302BF180QG/TR
	6 x 3.5mm, Gull Wing	4.3	130	EG4582CT-ND	.72	.58	.52	TL3302AF130QG
	6 x 3.5mm, Gull Wing	4.3	130	EG4582TR-NDΔ	498.51/1,800			TL3302AF130QG
	6 x 3.5mm, Gull Wing	4.3	260	EG4584CT-ND	.72	.58	.52	TL3302AF260QG
	6 x 3.5mm, Gull Wing	4.3	260	EG4584TR-NDΔ	498.51/1,800			TL3302AF260QG
	6 x 3.5mm, Gull Wing	5.0	130	EG4583CT-ND	.72	.58	.52	TL3302BF130QG
	6 x 3.5mm, Gull Wing	5.0	130	EG4583TR-NDΔ	498.51/1,800			TL3302BF130QG
	6 x 3.5mm, Gull Wing	5.0	260	EG4585CT-ND	.72	.58	.52	TL3302BF260QG
	6 x 3.5mm, Gull Wing	5.0	260	EG4585TR-NDΔ	498.51/1,800			TL3302BF260QG
2	6 x 3.5mm, J-Lead	4.3	130	EG4578CT-ND	.89	.72	.64	TL3302AF130QJ
	6 x 3.5mm, J-Lead	4.3	130	EG4578TR-NDΔ	618.57/1,800			TL3302AF130QJ
	6 x 3.5mm, J-Lead	4.3	180	EG4576CT-ND	.89	.72	.64	TL3302AF180QJ
	6 x 3.5mm, J-Lead	4.3	180	EG4576TR-NDΔ	618.57/1,800			TL3302AF180QJ
	6 x 3.5mm, J-Lead	4.3	260	EG4580CT-ND	.89	.72	.64	TL3302AF260QJ
	6 x 3.5mm, J-Lead	4.3	260	EG4580TR-NDΔ	618.57/1,800			TL3302AF260QJ
	6 x 3.5mm, J-Lead	5.0	130	EG4579CT-ND	.89	.72	.64	TL3302BF130QJ
	6 x 3.5mm, J-Lead	5.0	130	EG4579TR-NDΔ	618.57/1,800			TL3302BF130QJ
	6 x 3.5mm, J-Lead	5.0	180	EG4577CT-ND	.89	.72	.64	TL3302BF180QJ
	6 x 3.5mm, J-Lead	5.0	180	EG4577TR-NDΔ	618.57/1,800			TL3302BF180QJ
	6 x 3.5mm, J-Lead	5.0	260	EG4581CT-ND	.89	.72	.64	TL3302BF260QJ
	6 x 3.5mm, J-Lead	5.0	260	EG4581TR-NDΔ	618.57/1,800			TL3302BF260QJ

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches TL3303 Series

Dimensions in mm

Specifications:
• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles typical • Contact Resistance: 100mΩ maximum initial @ 2VDC ~ 4VDC • Insulation resistance: 100MΩ minimum • Actuation Force: 100±50gf, 160±50gf, 260±50gf • Operating Temperature: -20°C ~ 70°C

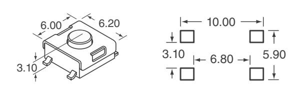

Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
		1	10	100	
6mm Square 3.1mm Actuator 100gf	EG4586CT-ND	.99	.80	.72	TL3303F100QG
6mm Square 3.1mm Actuator 100gf	EG4586TR-NDΔ	576.38/1,500			TL3303F100QG
6mm Square 3.1mm Actuator 160gf	EG4607CT-ND▲	.99	.80	.72	TL3303F160QG
6mm Square 3.1mm Actuator 160gf	EG4607TR-NDΔ	576.38/1,500			TL3303F160QG
6mm Square 3.1mm Actuator 260gf	EG4587CT-ND	.99	.80	.72	TL3303F260QG
6mm Square 3.1mm Actuator 260gf	EG4587TR-NDΔ	576.38/1,500			TL3303F260QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches TL3304 Series

Dimensions in mm

Specifications:
• Contact Rating: 50mA @ 50VDC • Mechanical Life: 100,000 cycles typical • Contact Resistance: 20mΩ maximum initial @ 2VDC ~ 4VDC, 100mA • Insulation resistance: 100MΩ minimum • Actuation Force: 160±50gf

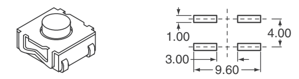

Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
		1	10	100	
SMT 3.44mm Actuator 160gf Gull Wing	EG2530CT-ND	.99	.80	.72	TL3304AF160QG
SMT 3.44mm Actuator 160gf Gull Wing	EG2530TR-NDΔ	576.38/1,500			TL3304AF160QG
3.4mm SMT 3.4mm Actuator 160gf J-Lead	EG4377CT-ND	.99	.80	.72	TL3304AF260QJ
3.4mm SMT 3.4mm Actuator 160gf J-Lead	EG4377TR-NDΔ	614.80/1,600			TL3304AF260QJ

Δ Tape and Reel

SMT Tact Switches Normally Closed TL3310 Series

Dimensions in mm

Specifications:
• Contact Rating: 50mA @ 50VDC • Life Expectancy: 100,000 cycles for F100, 50,000 cycles for F200 • Contact Resistance: 100mΩ maximum typical @ 2VDC ~ 4VDC • Insulation resistance: 1000MΩ • Actuation Force: 100±40gf, 200±50gf • Operating Temperature: -20°C ~ 70°C

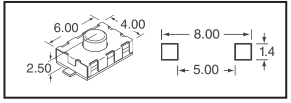

Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
		1	10	100	
SMT 2.5mm Actuator 120gf Normally Closed	EG4588CT-ND	.86	.69	.63	TL3310AF120QG
SMT 2.5mm Actuator 120gf Normally Closed	EG4588TR-NDΔ	897.00/3,000			TL3310AF120QG
SMT 2.5mm Actuator 200gf Normally Closed	EG4589CT-ND▲	.86	.69	.63	TL3310AF200QG
SMT 2.5mm Actuator 200gf Normally Closed	EG4589TR-NDΔ	897.00/3,000			TL3310AF200QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches TL1015 Series

Dimensions in mm

Specifications:
• Contact Rating: 50mA @ 12VDC • Life Expectancy: 50,000 cycles minimum • Contact Resistance: 100mΩ maximum • Insulation resistance: 100MΩ minimum • Actuation Force: 160±50gf • Operating Temperature: -20°C ~ 70°C

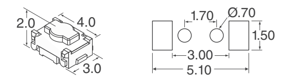

Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
		1	10	100	
160gf Gull Wing without Boss	EG4344CT-ND▲	1.05	.84	.76	TL1015AF160QG
160gf Gull Wing without Boss	EG4344TR-NDΔ	906.75/2,500			TL1015AF160QG
160gf Gull Wing with Boss	EG4345CT-ND	1.05	.84	.76	TL1015BF160QG
160gf Gull Wing with Boss	EG4345TR-NDΔ	906.75/2,500			TL1015BF160QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches Right Angle TL3330 Series

Dimensions in mm

Specifications:
• Contact Rating: 50mA @ 12VDC • Life Expectancy: 50,000 cycles for F130, 30,000 cycles for F260 • Contact Resistance: 100mΩ maximum • Insulation resistance: 100MΩ • Actuation Force: 130±40gf, 260±50gf • Operating Temperature: -20°C ~ 70°C

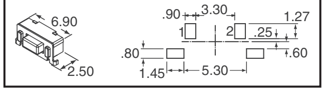

Description	Digi-Key Part No.	Cut Tape Price Each			E-Switch Part No.
		1	10	100	
3.5mm Actuator 130gf Gull Wing	EG4388CT-ND▲	.53	.43	.39	TL3330AF130QG
3.5mm Actuator 130gf Gull Wing	EG4388TR-NDΔ	470.24/2,300			TL3330AF130QG
3.5mm Actuator 260gf Gull Wing	EG4389CT-ND	.53	.43	.39	TL3330AF260QG
3.5mm Actuator 260gf Gull Wing	EG4389TR-NDΔ	470.24/2,300			TL3330AF260QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Right Angle SMT Tact Switches TL3320 Series

Dimensions in mm

Specifications:

- Contact Rating: 50mA @ 12VDC
- Life Expectancy: 80,000 cycles (50,000 for 250gf)
- Contact Resistance: 100mΩ @ 5VDC
- Insulation resistance: 100MΩ minimum
- Operating Temperature: -20°C ~ 70°C

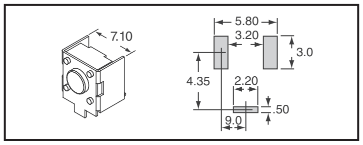

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
3.15mm Actuator 100gf Gull Wing	EG4390CT-ND	.60	.48	.43	TL3320AF100Q
3.15mm Actuator 100gf Gull Wing	EG4390TR-NDΔ		139.13/500		TL3320AF100Q
3.15mm Actuator 130gf Gull Wing	EG4391CT-ND	.60	.48	.43	TL3320AF130Q
3.15mm Actuator 130gf Gull Wing	EG4391TR-NDΔ		139.13/500		TL3320AF130Q
3.15mm Actuator 160gf Gull Wing	EG4392CT-ND	.60	.48	.43	TL3320AF160Q
3.15mm Actuator 160gf Gull Wing	EG4392TR-NDΔ		139.13/500		TL3320AF160Q
3.15mm Actuator 250gf Gull Wing	EG4404CT-ND	.60	.48	.43	TL3320AF250Q
3.15mm Actuator 250gf Gull Wing	EG4404TR-NDΔ		139.13/500		TL3320AF250Q
3.85mm Actuator 100gf Gull Wing	EG4393CT-ND▲	.60	.48	.43	TL3320BF100Q
3.85mm Actuator 100gf Gull Wing	EG4393TR-NDΔ		139.13/500		TL3320BF100Q
3.85mm Actuator 130gf Gull Wing	EG4394CT-ND	.60	.48	.43	TL3320BF130Q
3.85mm Actuator 130gf Gull Wing	EG4394TR-NDΔ		139.13/500		TL3320BF130Q
3.85mm Actuator 160gf Gull Wing	EG4395CT-ND	.60	.48	.43	TL3320BF160Q
3.85mm Actuator 160gf Gull Wing	EG4395TR-NDΔ		139.13/500		TL3320BF160Q
3.85mm Actuator 250gf Gull Wing	EG4396CT-ND	.60	.48	.43	TL3320BF250Q
3.85mm Actuator 250gf Gull Wing	EG4396TR-NDΔ		139.13/500		TL3320BF250Q

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches TL3342 Series

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles typical • Contact Resistance: 20mΩ maximum intial @ 2VDC ~ 4VDC, 100mA • Insulation resistance: 100MΩ • Actuation Force: 160±50gf

Dimensions in mm

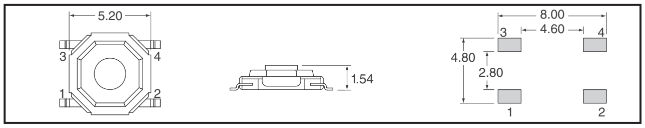

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
SMT 1.5mm Actuator 160gf Gull Wing	EG2531CT-ND▲	.72	.58	.52	TL3342F160QG/TR
SMT 1.5mm Actuator 160gf Gull Wing	EG2531TR-NDΔ		993.20/4,000		TL3342F160QG/TR

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Tact Switches Subminiature TL3340 Series

Dimensions in mm

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: Mechanical and Electrical 100,000 cycles • Contact Resistance: 500mΩ maximum intial • Insulation resistance: 100MΩ minimum @ 100V • Actuation Force: 160±50gf • Operating Temperature: -35°C ~ 85°C

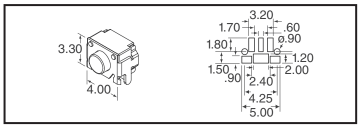

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
SMT Right Angle 160gf Gull Wing	EG4627CT-ND▲	.64	.51	.46	TL3340AF160QG
SMT Right Angle 160gf Gull Wing	EG4627TR-NDΔ		493.00/2,000		TL3340AF160QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

SMT Snap Action Switches TS2 Series

Dimensions in mm

Specifications: • Contact Rating: 0.1A @ 125VAC or 48VDC • Mechanical Life: 3,000,000 cycles • Contact Resistance: 300mΩ @ 5VDC • Insulation resistance: 100MΩ minimum @ 500VDC • Operating Force: 70±20gf • Operating Temperature: -25°C ~ 85°C

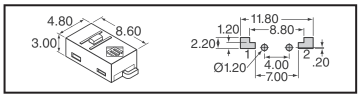

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	E-Switch Part No.
SMT Sub-Mini 70gf	EG4686CT-ND	.86	6.90	62.10	TS20100F070S
SMT Sub-Mini 70gf	EG4686TR-NDΔ		333.50/1,000		TS20100F070S

Δ Tape and Reel

SMT Side Mount Actuated Tact Switches TL1014 Series

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles minimum • Contact Resistance: 100mΩ maximum • Insulation resistance: 100MΩ minimum • Actuation Force: 180±50gf minimum • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

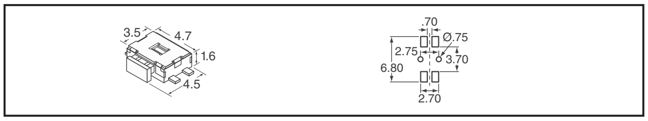

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
180gf Gull Wing without Boss	EG4342CT-ND	.93	.75	.67	TL1014AF180QG
180gf Gull Wing without Boss	EG4342TR-NDΔ		967.20/3,000		TL1014AF180QG
180gf Gull Wing with Boss	EG4343CT-ND▲	.93	.75	.67	TL1014BF180QG
180gf Gull Wing with Boss	EG4343TR-NDΔ		967.20/3,000		TL1014BF180QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Sealed SMT Tact Switches TL6700 Series

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles typical • Contact Resistance: 100mΩ maximum initial @ 2VDC ~ 4VDC • Insulation resistance: 100mΩ minimum • Operating Force: 160±50gf, 260±50gf • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

Fig. 1

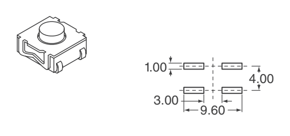

Fig. 2

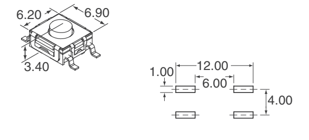

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
1	Flush Actuator 160gf J-Lead	EG4380CT-ND	1.01	.81	.73	TL6700NF160QJ
	Flush Actuator 160gf J-Lead	EG4380TR-NDΔ		741.10/1,900		TL6700NF160QJ
	3.4mm Actuator 160gf J-Lead	EG4381CT-ND	1.01	.81	.73	TL6700AF160QJ
	3.4mm Actuator 160gf J-Lead	EG4381TR-NDΔ		624.08/1,600		TL6700AF160QJ
	3.4mm Actuator 260gf J-Lead	EG4383CT-ND▲	1.01	.81	.73	TL6700AF260QJ
	3.4mm Actuator 260gf J-Lead	EG4383TR-NDΔ		624.08/1,600		TL6700AF260QJ
2	Flush Actuator 160gf Gull Wing	EG4384CT-ND▲	1.01	.81	.73	TL6700NF160QG
	Flush Actuator 160gf Gull Wing	EG4384TR-NDΔ		546.07/1,400		TL6700NF160QG
	3.4mm Actuator 160gf Gull Wing	EG4385CT-ND	1.01	.81	.73	TL6700AF160QG
	3.4mm Actuator 160gf Gull Wing	EG4385TR-NDΔ		546.07/1,400		TL6700AF160QG
	Flush Actuator 260gf Gull Wing	EG4386CT-ND	1.01	.81	.73	TL6700NF260QG
	Flush Actuator 260gf Gull Wing	EG4386TR-NDΔ		546.07/1,400		TL6700NF260QG
	3.4mm Actuator 260gf Gull Wing	EG4387CT-ND	1.01	.81	.73	TL6700AF260QG
	3.4mm Actuator 260gf Gull Wing	EG4387TR-NDΔ		546.07/1,400		TL6700AF260QG

Δ Tape and Reel
▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Dual LED Tact Switches TL3200 Series

Specifications:

• Contact Rating: 12VDC, 50mA maximum • Operating Life: 30,000 Cycles • Contact Resistance: 500mΩ maximum • Insulation Resistance: 100VDC, 100MΩ minimum • Travel: 0.25mm • Operating Force: 160 +75/-30gf • Switching Function: Momentary • Operating Temperature: -20°C ~ 70°C

Dimensions in mm

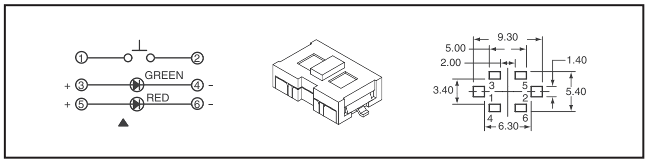

Color	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 3,000	E-Switch Part No.
Green/Red	EG4409CT-ND	3.14	2.52	2.27	EG4409TR-ND	1089.40/M	TL3200AF160GRQ
Red/Red	EG4410CT-ND▲	3.14	2.52	2.27	EG4410TR-ND	1089.40/M	TL3200AF160RRQ

▲ **EG4626-ND** SMT Subminiature Tact Switch Sample Kit includes 10 each of switches denoted

Illuminated Tact Switches TL1240 Series

Dimensions in mm

Specifications:

• Contact Rating: 50mA @ 12VDC • Life Expectancy: 100,000 cycles • Contact Resistance: 100mΩ maximum typical, initial @ 2VDC ~ 4VDC • Actuation Force: 160gf ± 50gf • Operating Temperature: -20°C ~ 70°C

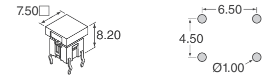

LED Color	Cap Color	Peak Forward Current (mA)	Luminous Intensity (mcd)	Forward Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
No LED	No Cap	—	—	—	EG4609-ND	.77	.69	.60	TL1240NQ
No LED	Black	—	—	—	EG4610-ND	.97	.87	.75	TL1240NQ1JBLK
Green	No Cap	25	3	2.8	EG4611-ND	2.12	1.89	1.63	TL1240GQ
Red	No Cap	30	25	2.3	EG4612-ND	2.12	1.89	1.63	TL1240RQ
Yellow	No Cap	20	9	2.8	EG4613-ND	2.12	1.89	1.63	TL1240YQ
Green	Clear	25	3	2.8	EG4614-ND	2.31	2.07	1.78	TL1240GQ1JCLR
Red	Clear	30	25	2.3	EG4615-ND	2.31	2.07	1.78	TL1240RQ1JCLR
Yellow	Clear	20	9	2.8	EG4616-ND	2.31	2.07	1.78	TL1240YQ1JCLR
Red	Black	30	25	2.3	EG4617-ND	3.37	3.01	2.59	TL1240RQ2JBLK
Yellow	Black	20	9	2.8	EG4618-ND	3.37	3.01	2.59	TL1240YQ2JBLK
Green	Black	25	3	2.8	EG4619-ND	3.37	3.01	2.59	TL1240GQ2JBLK

Illuminated Tact Switches TL1290 Series

Dimensions in mm

Specifications:

• Contact Rating: 100mA @ 32VDC • Electrical Life: 25,000 cycles • Contact Resistance: 250mΩ initial maximum • Insulation Resistance: 100MΩ minimum at 500VDC • Travel: 1.0 ± 0.2mm to Electrical Make; 2.0 ± 0.2mm Full Travel • Dielectric Strength: 250VAC • Force: 500 ± 125gf • Operating Temperature: -20°C ~ 70°C

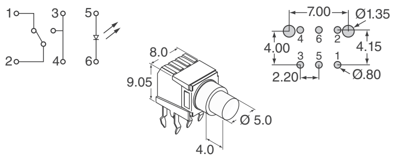

LED Color	Forward Current (mA)	Luminous Intensity (mcd)	Forward Voltage (@ 20mA)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Blue	30	350 ~ 700	3.5 ~ 4.0	EG4623-ND	5.85	5.22	4.50	TL1290AF500BR
Red	40	75 ~ 120	1.5 ~ 2.4	EG4624-ND	5.85	5.22	4.50	TL1290AF500RR
Green	30	60 ~ 100	1.7 ~ 2.8	EG4625-ND	5.85	5.22	4.50	TL1290AF500GR

Detector Switches

Dimensions in mm

Fig. 1

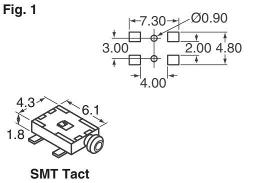

Fig. 2

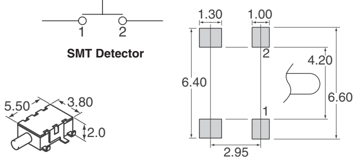

Fig. 3

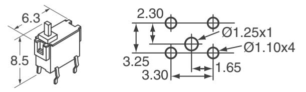

Fig. 4

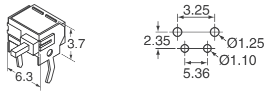

Fig.	Description	Rating	Operating Force (gf)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	E-Switch Part No.
1	SMT Right Angle with Boss	12VDC, 50mA	180	EG2525CT-ND	.99	.80	.72	901AGQF180
	SMT Right Angle with Boss	12VDC, 50mA	180	EG2525TR-NDΔ	768.50/2,000			901AGQF180
2	SMT Right Angle w/o Boss	12VDC, 100mA	50	EG2622CT-ND	1.44	1.16	1.04	900AGQ
	SMT Right Angle w/o Boss	12VDC, 100mA	50	EG2622TR-NDΔ	1060.68/1,900			900AGQ
	SMT Right Angle with Boss	12VDC, 100mA	50	EG2659CT-ND	1.44	1.16	1.04	900BGQ
	SMT Right Angle with Boss	12VDC, 100mA	50	EG2659TR-NDΔ	1060.68/1,900			900BGQ
3	Vertical Mount, PCB	30VDC, 100mA	36	EG2660-ND†	.86	.77	.67	TD1104
4	Horizontal Mount, PCB	30VDC, 100mA	36	EG2661-ND†	.77	.69	.60	TD1105A

Δ Tape and Reel † Bulk

Navigation Switches

JS1300 and JS5208 Multi-Directional

Dimensions in mm

JS1300

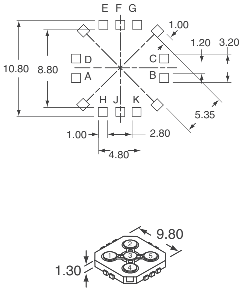

JS5208

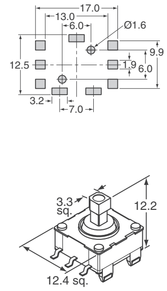

JS1300 Series: Mechanical Specifications: • Mechanical Life: 100,000 actuations • Typical Travel: Center: 0.19 +/- 0.15mm; Tilt: 0.35+/-0.15mm • Switching Function: Momentary **Electrical Specifications:** • Contact Rating: 12VDC, 50mA • Contact Resistance (Initial maximum): 100mΩ • Insulation Resistance: 100MΩ • Dielectric Strength: 250VAC **Environmental Specifications:** • Operating Temperature: -25°C ~ 70°C

JS5208 Series: Specifications: • Contact Rating: 20mA, 15VDC • Life Expectancy: 100,000 actuations • Contact Resistance: (Initial maximum) 100mΩ • Operating Force: Tilt: 280+/-100 grams; Push: 500+/-150 grams • Dielectric: 250VAC • Operating Temperature: -20°C ~ 70°C • Travel: Tilt: 8°; Push: 1.0 +/-0.2mm

Function	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	E-Switch Part No.
JS1300 Series								
With Select, no Boss	EG4408CT-ND	2.44	1.96	1.76	EG4408TR-ND	2,500	846.30/M	JS1300AQ
JS5208 Series								
With Select and Boss	EG4561-ND†	3.68	3.29	2.83	—	—	—	JS5208

† Bulk

Key Switches

The KS Series key switch features a sharp click feel with a positive tactile feedback. The built-in, stylish buttons are user ready, however, customizable, color coordinated caps are also available. Designed for a long reliable life, these switches have proven themselves in electronic control designs for more than two decades.

Specifications: • Contact Rating: 10mA @ 35VDC • Electrical Life: 250,000 cycles minimum at full load • Contact Resistance: 100mΩ maximum • Insulation resistance: 100MΩ minimum @ 500VDC • Operating Temperature: -25°C ~ 70°C

Dimensions in mm

Square Cap

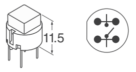

Round Cap

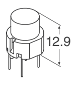

Plunger

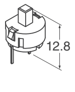

Flat Cap

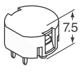

Description	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
Square Cap					
Black, Momentary Action, 130gF	EG4788-ND	.66	5.89	50.75	KS-00Q-01
Red, Momentary Action, 130gF	EG4789-ND	.66	5.89	50.75	KS-00Q-02
Green, Momentary Action, 130gF	EG4790-ND	.66	5.89	50.75	KS-00Q-03
Round Cap					
Black, Momentary Action, 130gF	EG4791-ND	.66	5.89	50.75	KS-01Q-01
Red, Momentary Action, 130gF	EG4792-ND	.66	5.89	50.75	KS-01Q-02
Green, Momentary Action, 130gF	EG4793-ND	.66	5.89	50.75	KS-01Q-03
Plunger					
Black, Momentary Action, 130gF	EG4794-ND	.66	5.89	50.75	KS-03Q-01
Red, Momentary Action, 130gF	EG4795-ND	.66	5.89	50.75	KS-03Q-02
Green, Momentary Action, 130gF	EG4796-ND	.66	5.89	50.75	KS-03Q-03
Flat Cap					
Black, Momentary Action, 130gF	EG4797-ND	.66	5.89	50.75	KS-04Q-01
Red, Momentary Action, 130gF	EG4798-ND	.66	5.89	50.75	KS-04Q-02
Green, Momentary Action, 130gF	EG4799-ND	.66	5.89	50.75	KS-04Q-03
Rectangular Button					
Black, For Square Cap Switch	EG4800-ND	.20	1.77	15.25	ACC-C16-2
Red, For Square Cap Switch	EG4801-ND	.20	1.77	15.25	ACC-C16-3
Green, For Square Cap Switch	EG4802-ND	.20	1.77	15.25	ACC-C16-6
Grey, For Square Cap Switch	EG4803-ND	.20	1.77	15.25	ACC-C16-9
Round Button					
Black, For Plunger Switch	EG4804-ND	.20	1.77	15.25	ACC-C17-2
Red, For Plunger Switch	EG4805-ND	.20	1.77	15.25	ACC-C17-3
Green, For Plunger Switch	EG4806-ND	.20	1.77	15.25	ACC-C17-6
Grey, For Plunger Switch	EG4807-ND	.20	1.77	15.25	ACC-C17-9

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Momentary Tact Switches KT11 Series

Dim. in mm

Fig. 1

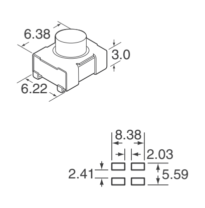

Fig. 2

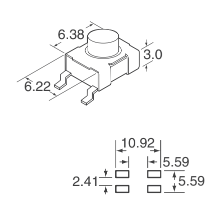

Fig. 3

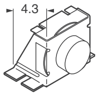

Fig. 4

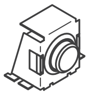

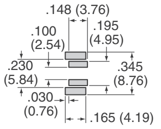

Fig. 5

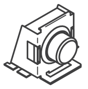

Fig. 6

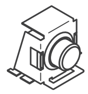

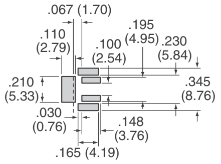

Fig.	Actuator Height	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Part No.
1	Flush	J-Lead	Silver	CKN1831CT-ND	2.35	2.18	2.00	CKN1831TR-ND	1,100	1303.20/M	KT11B0JM34LFS
	.025”	J-Lead	Silver	CKN1835CT-ND	2.56	2.37	2.17	CKN1835TR-ND	1,100	1418.40/M	KT11B1JM34LFS
	.088”	J-Lead	Silver	CKN1864CT-ND	2.61	2.42	2.22	CKN1864TR-ND	1,100	1447.20/M	KT11B2JM34 LFS
	.093”	J-Lead	Silver	CKN1842CT-ND	2.43	2.25	2.06	CKN1842TR-ND	1,100	1344.60/M	KT11P2JM34LFS
	.044”	J-Lead	Silver	CKN1849CT-ND	2.40	2.22	2.04	CKN1849TR-ND	1,100	1330.20/M	KT11P3JM34LFS
	.156”	J-Lead	Silver	CKN1855CT-ND	2.46	2.28	2.09	CKN1855TR-ND	800	1090.08	KT11P4JM34LFS
2	Flush	Gullwing	Silver	CKN1834CT-ND	2.73	2.52	2.31	CKN1834TR-ND	1,100	1512.00/M	KT11B0SM34LFS
	.025”	Gullwing	Silver	CKN1838CT-ND	2.97	2.74	2.52	CKN1838TR-ND	1,100	1643.40/M	KT11B1SM34LFS
	.088”	Gullwing	Silver	CKN1841CT-ND	2.98	2.75	2.52	CKN1841TR-ND	1,100	1648.80/M	KT11B2SM34LFS
	.093”	Gullwing	Silver	CKN1848CT-ND	2.78	2.57	2.36	CKN1848TR-ND	1,100	1539.00/M	KT11P2SM34LFS
	.044”	Gullwing	Silver	CKN1854CT-ND	2.75	2.54	2.33	CKN1854TR-ND	1,100	1522.80/M	KT11P3SM34LFS
	.156”	Gullwing	Silver	CKN1860CT-ND	2.81	2.60	2.38	CKN1860TR-ND	800	1244.16	KT11P4SM34LFS
3	Flush	Gullwing	Silver	CKN1832CT-ND	2.59	2.40	2.20	CKN1832TR-ND	800	1149.12	KT11B0SAM34LFS
	.025”	Gullwing	Silver	CKN1836CT-ND	2.61	2.42	2.22	CKN1836TR-ND	800	1157.76	KT11B1SAM34LFS
	.025”	Gullwing	Gold	CKN1837CT-ND	4.05	3.74	3.43	CKN1837TR-ND	800	1794.24	KT11B1SAM35LFG
	.088”	Gullwing	Silver	CKN1839CT-ND	2.64	2.44	2.24	CKN1839TR-ND	800	1169.28	KT11B2SAM34LFS
	.088”	Gullwing	Gold	CKN1840CT-ND	4.05	3.74	3.43	CKN1840TR-ND	800	1794.24	KT11B2SAM35LFG
4	Press Fit	Gullwing	Silver	CKN1862CT-ND	2.93	2.70	2.48	CKN1862TR-ND	500	810.00	KT11S1SA3M34LFS
	.093”	Gullwing	Gold	CKN1847CT-ND	3.40	3.14	2.88	CKN1847TR-ND	500	941.40	KT11P2SA3M35LFG
	.093”	Gullwing	Silver	CKN1846CT-ND	3.40	3.14	2.88	CKN1846TR-ND	500	941.40	KT11P2SA3M34LFS
	.044”	Gullwing	Gold	CKN1853CT-ND	4.01	3.71	3.40	CKN1853TR-ND	500	1111.50	KT11P3SA3M35LFG
	.156”	Gullwing	Gold	CKN1859CT-ND	6.65	6.15	5.63	CKN1859TR-ND	500	1842.30	KT11P4SA3M35LFG
5	.093	Gullwing	Silver	CKN10273CT-ND ***NEW!***	3.40	3.14	2.88	CKN10273TR-ND ***NEW!***	4,000	1569.00/M	KT11P2SA1M34LFS
	.093”	Gullwing	Gold	CKN1843CT-ND	3.47	3.21	2.94	CKN1843TR-ND	800	1536.48	KT11P2SA1M35LFG
	.044”	Gullwing	Silver	CKN1850CT-ND	2.59	2.40	2.20	CKN1850TR-ND	800	1149.12	KT11P3SA1M34LFS
	.156”	Gullwing	Silver	CKN1856CT-ND	2.64	2.44	2.24	CKN1856TR-ND	800	1169.28	KT11P4SA1M34LFS
	.156”	Gullwing	Gold	CKN1857CT-ND	3.40	3.14	2.88	CKN1857TR-ND	800	1506.24	KT11P4SA1M35LFG
6	Press Fit	Gullwing	Gold	CKN1861CT-ND	3.62	3.35	3.07	CKN1861TR-ND	600	1204.20	KT11S1SA2M35LFG
	Snap Fit	Gullwing	Silver	CKN10228CT-ND ***NEW!***	3.02	2.79	2.56	CKN10228TR-ND ***NEW!***	600	1004.40	KT11S2SA2M34LFS
	Snap Fit	Gullwing	Gold	CKN1863CT-ND	3.62	3.35	3.07	CKN1863TR-ND	600	1204.20	KT11S2SA2M35LFG
	.093”	Gullwing	Silver	CKN1844CT-ND	2.61	2.42	2.22	CKN1844TR-ND	600	868.32	KT11P2SA2M34LFS
	.093”	Gullwing	Gold	CKN1845CT-ND	3.64	3.36	3.08	CKN1845TR-ND	600	1209.60	KT11P2SA2M35LFG
	.044”	Gullwing	Gold	CKN1852CT-ND	3.23	2.99	2.74	CKN1852TR-ND	3,000	1491.00/M	KT11P3SA2M35LFG
	.156”	Gullwing	Gold	CKN1858CT-ND	3.49	3.23	2.96	CKN1858TR-ND	600	1159.92	KT11P4SA2M35LFG
	.156”	Gullwing	Silver	CKN10227CT-ND ***NEW!***	2.85	2.64	2.42	CKN10227TR-ND ***NEW!***	600	947.16	KT11P4SA2M34LFS

Sealed Surface Mount Tact Switches KSC Series —

Washable, Totally Sealed (IP67)

Dim. in mm

Circuit:
SPST-NO
Switching:
Maximum Voltage: 32VDC; Maximum Current: Silver: 50mA; Gold: 10mA
Contact Resistance:
<100mΩ
Operating Temperature:
Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

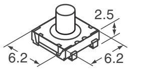

J-Lead Shown

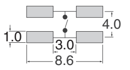

J-Lead PCB

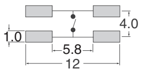

Gullwing PCB

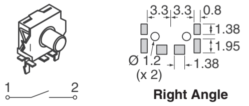

Right Angle

Operating Force	Actuator	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Part No.
300gF	Flush	Gullwing	Silver	401-1751-1-ND◆	.42	.39	.36	401-1751-2-ND◆	2,000	230.40/M	KSC141GLFS
550gF	Flush	Gullwing	Silver	401-1073-1-ND	.49	.45	.42	—	—	—	KSC151G
550gF	Flush	J-Lead	Silver	401-1754-1-ND◆	.56	.52	.48	401-1754-2-ND◆	2,000	307.80/M	KSC151JLFS
120gF	Soft 3.5mm	Gullwing	Silver	401-1755-1-ND◆	.44	.41	.38	401-1755-2-ND◆	2,000	244.80/M	KSC201GLFS
120gF	Soft 3.5mm	J-Lead	Silver	401-1756-1-ND◆	.44	.41	.38	401-1756-2-ND◆	2,000	244.80/M	KSC201JLFS
160gF	Soft 3.5mm	J-Lead	Silver	CKN9195CT-ND◆§	.45	.42	.39	CKN9195TR-ND◆§	2,000	250.00/M	KSC222J LFS
200gF	Soft 3.5mm	Gullwing	Silver	401-1757-1-ND◆	.42	.39	.36	401-1757-2-ND◆	2,000	234.00/M	KSC221GLFS
200gF	Soft 3.5mm	J-Lead	Silver	401-1758-1-ND◆	.42	.39	.36	401-1758-2-ND◆	2,000	234.00/M	KSC221JLFS
160gF	Soft 3.5mm	Gullwing	Gold	401-1759-1-ND◆	.61	.57	.52	401-1759-2-ND◆	2,000	340.20/M	KSC223GLFG
300gF	Soft 3.5mm	J-Lead	Gold	401-1764-1-ND◆	.63	.59	.54	401-1764-2-ND◆	2,000	351.00/M	KSC243JLFG
350gF	Soft 3.5mm	Gullwing	Silver	401-1761-1-ND◆	.44	.41	.37	401-1761-2-ND◆	2,000	241.20/M	KSC241GLFS

◆ RoHS Compliant † Bulk § Long Life Version ‡ KSC5 Not Sealed

(Continued)

Sealed Surface Mount Tact Switches KSC Series — Washable, Totally Sealed (IP67) *(Cont.)*

Operating Force	Actuator	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		C&K Part No.
					1	25	100		Qty.	Pricing	
350gF	Soft 3.5mm	J-Lead	Silver	401-1762-1-ND◆	.44	.41	.37	401-1762-2-ND◆	2,000	241.20/M	KSC241JLFS
160gF	Hard 3.5mm	Gullwing	Silver	401-1765-1-ND◆	.43	.40	.37	401-1765-2-ND◆	2,000	239.40/M	KSC321GLFS
160gF	Hard 3.5mm	J-Lead	Silver	401-1766-1-ND◆	.43	.40	.37	401-1766-2-ND◆	2,000	239.40/M	KSC321JLFS
160gF	Hard 3.5mm	Gullwing	Gold	401-1767-1-ND◆	.58	.54	.50	401-1767-2-ND◆	2,000	322.20/M	KSC323GLFG
160gF	Hard 3.5mm	J-Lead	Gold	401-1768-1-ND◆	.58	.54	.50	401-1768-2-ND◆	2,000	322.20/M	KSC323JLFG
300gF	Hard 3.5mm	Gullwing	Silver	401-1769-1-ND◆	.43	.40	.37	401-1769-2-ND◆	2,000	239.40/M	KSC341GLFS
300gF	Hard 3.5mm	J-Lead	Silver	401-1770-1-ND◆	.43	.40	.37	401-1770-2-ND◆	2,000	239.40/M	KSC341JLFS
300gF	Hard 3.5mm	Gullwing	Gold	401-1771-1-ND◆	.58	.54	.50	401-1771-2-ND◆	2,000	322.20/M	KSC343GLFG
300gF	Hard 3.5mm	J-Lead	Gold	401-1772-1-ND◆	.58	.54	.50	401-1772-2-ND◆	2,000	322.20/M	KSC343JLFG
550gF	Hard 3.5mm	Gullwing	Silver	401-1773-1-ND◆	.48	.45	.41	401-1773-2-ND◆	2,000	268.20/M	KSC351GLFS
550gF	Hard 3.5mm	J-Lead	Silver	401-1774-1-ND◆	.48	.45	.41	401-1774-2-ND◆	2,000	268.20/M	KSC351JLFS
120gF	Soft 5.2mm	Gullwing	Silver	CKN10282CT-ND◆ ***NEW!***	.53	.49	.45	CKN10282TR-ND◆ ***NEW!***	1,000	293.40	KSC401G 50SH LFS
120gF	Soft 5.2mm	J-Lead	Silver	401-1775-1-ND◆	.53	.49	.45	401-1775-2-ND◆	1,000	293.40	KSC401J 50SH LFS
120gF	Soft 5.2mm	J-Lead	Gold	401-1776-1-ND◆	.86	.80	.74	401-1776-2-ND◆	1,000	478.80	KSC403J 50SH LFG
140gF	Soft 5.2mm	Gullwing	Silver	401-1777-1-ND◆	.53	.49	.45	401-1777-2-ND◆	1,000	291.60	KSC411G 70SH LFS
140gF	Soft 5.2mm	J-Lead	Silver	401-1778-1-ND◆	.53	.49	.45	401-1778-2-ND◆	1,000	291.60	KSC411J 70SH LFS
160gF	Soft 5.2mm	Gullwing	Silver	CKN9198CT-ND◆§	.54	.50	.46	CKN9198TR-ND◆§	1,000	299.00	KSC422G 70SH LFS
160gF	Soft 5.2mm	Gullwing	Silver	401-1779-1-ND◆	.50	.47	.43	401-1779-2-ND◆	1,000	279.00	KSC421G 70SH LFS
160gF	Soft 5.2mm	J-Lead	Silver	401-1780-1-ND◆	.77	.72	.60	401-1780-2-ND◆	1,000	279.00	KSC421J 70SH LFS
160gF	Soft 5.2mm	J-Lead	Silver	CKN9199CT-ND◆§	.54	.50	.46	CKN9199TR-ND◆§	1,000	299.00	KSC422J 70SH LFS
170gF	Soft 5.2mm	Right Angle	Silver	401-1781-ND◆†	.77	.72	.60	—	—	—	KSC421V30ACT2.95LFS
300gF	Soft 5.2mm	Gullwing	Silver	401-1783-1-ND◆	.52	.48	.44	401-1783-2-ND◆	1,000	286.20	KSC441G 70SH LFS
300gF	Soft 5.2mm	J-Lead	Silver	401-1784-1-ND◆	.52	.48	.44	401-1784-2-ND◆	1,000	286.20	KSC441J 70SH LFS
300gF	Soft 5.2mm	J-Lead	Gold	401-1785-1-ND◆	.73	.68	.62	401-1785-2-ND◆	1,000	473.40	KSC443J 70SH LFG
320gF	Soft 5.2mm	J-Lead	Silver	CKN9197CT-ND◆§	.54	.50	.46	CKN9197TR-ND◆§	1,000	299.00	KSC442J 70SH LFS
320gF	Soft 5.2mm	Gullwing	Silver	CKN9196CT-ND◆§	.52	.48	.44	—	—	—	KSC442G 70SH LFS
160gF	Rocker 5.6mm	Gullwing	Silver	401-1907-1-ND◆‡	.55	.51	.47	401-1907-2-ND◆‡	1,000	302.40	KSC521G ROHS
160gF	Hard 7.7mm	Gullwing	Silver	401-1786-1-ND◆	.58	.54	.49	401-1786-2-ND◆	750	238.95	KSC621GLFS
160gF	Hard 7.7mm	J-Lead	Silver	401-1748-1-ND◆	.51	.48	.44	401-1748-2-ND◆	750	238.95	KSC621J LFS
300gF	Hard 7.7mm	Gullwing	Silver	401-1787-1-ND◆	.59	.55	.51	401-1787-2-ND◆	750	245.70	KSC641GLFS
300gF	Hard 7.7mm	J-Lead	Silver	401-1788-1-ND◆	.59	.55	.51	401-1788-2-ND◆	750	245.70	KSC641JLFS
KSC4D Sealed Detect Switch for SMT — RoHS Compliant											
200gF	Soft 5.2mm	J-Lead	Silver	CKN9428CT-ND	.84	.78	.71	CKN9428TR-ND	1,000	464.40	KSC4D1J 50SH LFS
200gF	Soft 5.2mm	Gullwing	Silver	CKN9429CT-ND	.84	.78	.71	CKN9429TR-ND	1,000	464.40	KSC4D1G 50SH LFS

◆ RoHS Compliant † Bulk § Long Life Version ‡ KSC5 Not Sealed

RACON Short-Travel Keyswitches

SOLUTIONS WITH PASSION

RACON short-travel keyswitches offer an extremely high switching reliability while needing very little space. They can be arranged as single keys, in rows or key blocks.

Specifications: • Operating Temperature: -40°C ~ 80°C • Operating Life: 1,000,000 cycles • Maximum Rated Voltage: 42V • Maximum Rated Current: 100mA

Dim. in mm

Fig. 1

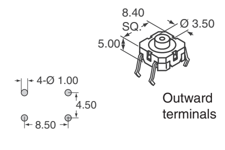

Fig. 2

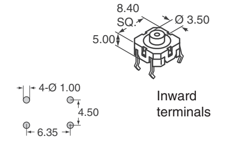

Fig. 3

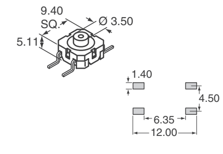

Fig. 4

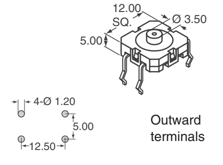

Fig. 5

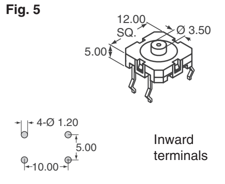

Fig. 6

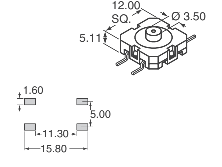

Fig. 7

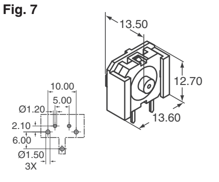

Fig. 8

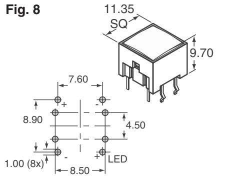

Fig. 9

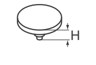

Fig. 10

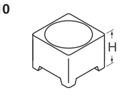

Fig.	Description	Digi-Key Part No.	Price Each			C&K Part No.
			1	25	100	
Switches						
1	RACON 8, 330gF, Outward Terminals	CKN9361-ND	2.97	2.38	1.88	1.14100.5010000
2	RACON 8, 330gF Inward Terminals	CKN9362-ND	3.14	2.52	1.99	1.14100.5020000
3	RACON 8, 330gF, Surface Mount	CKN9363CT-ND†	3.00	2.78	2.55	1.14100.5030000
3	RACON 8, 330gF, Surface Mount	CKN9363TR-ND◊	1663.00/1,000			1.14100.5030000
4	RACON 12, 360gF, Outward Terminals	CKN9364-ND	3.08	2.46	1.95	1.14001.5010000
5	RACON 12, 360gF Inward Terminals	CKN9365-ND	3.08	2.46	1.95	1.14001.5020000
6	RACON 12, 360gf, Surface Mount	CKN9366CT-ND†	3.29	3.04	2.79	1.14001.5030000
6	RACON 12, 360gf, Surface Mount	CKN9366TR-ND◊	1367.55/750			1.14001.5030000
7	RACON 12V, 360gF, PCB Mount	CKN9367-ND	4.40	3.52	2.79	1.14001.5050000
8	RACON 12i, 330gF, Red LED	CKN9368-ND	17.87	14.30	11.32	1.14001.5510000
8	RACON 12i, 330gF, Green LED	CKN9205-ND	17.87	14.30	11.32	1.14001.5520000
8	RACON 12i, 330gF, Yellow LED	CKN9206-ND	17.87	14.30	11.32	1.14001.5530000
Accessories						
9	Plunger, H=6.5mm x 8mm dia.	CKN9369-ND	.53	.43	.34	5.46167.3010209
9	Plunger, H=7mm x 8mm dia.	CKN9207-ND	.53	.43	.34	5.46167.0900209
9	Plunger, H=6.5mm x 11.5mm dia.	CKN9208-ND	.53	.43	.34	5.46167.2270209
9	Plunger, H=7mm x 11.5mm dia.	CKN9370-ND	.53	.43	.34	5.46167.0420209
9	Plunger, H=7mm x 14.5 dia.	CKN9209-ND	.53	.43	.34	5.46168.0420209
9	Plunger, H=9.7mm x 14.5mm dia.	CKN9371-ND	.53	.43	.34	5.46168.0430209
9	Plunger, H=7mm x 19mm dia.	CKN9210-ND	.42	.34	.27	5.46169.0420209
9	Plunger, H=12.5mm x 19mm dia.	CKN9372-ND	.53	.43	.34	5.46169.0440209
10	Plunger, H=7mm x 14mm square	CKN9211-ND	.53	.43	.34	5.46001.0570209
10	Plunger, H=12.5mm x 14mm square	CKN9373-ND	.53	.43	.34	5.46001.0590209

† Cut Tape ◊ Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

C&K

KSI Series Sealed Tact Switches

Dim. in mm

Specifications: Function: Momentary action **Contact Arrangement:** 1 make contact = SPST-NO **Distance Between Button Centers (Minimum):** 7.62mm (0.300") **Terminals:** PC pins **Electrical: Maximum Power:** 1VA **Maximum Voltage:** 50VDC **Minimum Voltage:** 20mV **Maximum Current:** 50mA **Minimum Current:** 1mA **Operating Temperature:** -40°C ~ 90°C **Contact Material:** Silver plated

Vertical

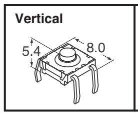

Right Angle

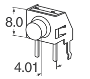

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 110gF, Totally Sealed	401-1796-ND	.68	.63	.58	KSI0M011LFT
Right Angle, 110gF, Totally Sealed	401-1798-ND	.88	.81	.75	KSI0V011LFT

KST Series SMT Rubber Tact Switches

Digi-Reel®

Dim. in mm

The KST is a miniature tact switch with a rubber actuator used to provide a tactile effect similar to the feeling given by the conductive rubber products and a travel which is more than twice the standard tact switch travel of the KSA or KSC product line.

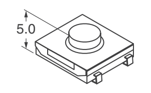

Circuit: SPST-NO **Switching:** • Voltage Maximum: 30V • Current Maximum: 50mA **Life Expectancy:** 100,000 cycles **Operating Temperature:** -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 1,000	C&K Part No.
6.2mm square, 200gF, Gullwing	401-1847-1-ND	.75	.70	.64	415.80	KST221GLFS
6.2mm square, 200gF, J-Type	401-1848-1-ND	.75	.70	.64	415.80	KST221JLFS
6.2mm square, 350gF, Gullwing	401-1849-1-ND	.80	.75	.68	444.60	KST241GLFS
6.2mm square, 350gF, J-Type	401-1850-1-ND	.80	.75	.68	444.60	KST241JLFS

‡ For Tape and Reel part number, change 1-ND to 2-ND.

QSA Series Silent Navigation SMT Switches

Dim. in mm

Features: • Operational life: 30,000 cycles in each direction (≤ 2N force) • Excellent tactile feel • Only actuate one direction at a time • Provides logic level control **Applications:** • Seat Adjustments • Industrial controls • Mirror adjustment • Home entertainment • Multi-function steering wheel **Mechanical:** • Actuation Force: 3.3 ±1N **Electrical:** • Switching Power Maximum: 0.20VA • Minimum/Maximum Switching Voltage: (VDC) 20mV/30V • Minimum/Maximum Switching Current: 1mA/50mA • Operating Temperature: -40°C ~ 85°C

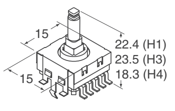

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
4-Way Switch, 350gF	401-1597-ND	12.56	10.05	7.96	QSA4S 3.5N H1 G8
4-Way Switch, 350gF, Silver	CKN10132-ND ***NEW!***	11.42	9.14	7.24	QSA4S 3.5N H1 G8 AG
2-Way Switch, 350gF	CKN10280-ND ***NEW!***	11.59	9.28	7.35	QSA2S 3.5N H3 G7
4-Way Switch, 350gF	CKN10281-ND ***NEW!***	12.56	10.05	7.96	QSA4S 3.5N H4 G7

K5AT Series Lighted SMT Tact Switches

Digi-Reel®

Dim. in mm

Features: • High Bright LEDs • Gold plated dome contact offering superior contact reliability in time • Excellent ergonomics: sharp tactile feel and audible click • Reduced space usage on board "2 in 1"

Typical Applications: • Server, storage • Network infrastructure • Telecom • Medical

Electrical Specifications: • Power Minimum/Maximum: 0.02VA/1.0VA • Voltage Minimum/Maximum: 20mVdc ~ 32Vdc • Current Minimum/Maximum: 0.1mA ~ 100mA

Environmental Specifications: • Operating Temperature: -40°C ~ 125°C

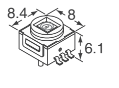

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 900	C&K Part No.
Green Illuminated, Momentary, 400gF	CKN9416CT-ND	9.20	8.49	7.79	4584.60	K5ATGN43GP
White Illuminated, Momentary, 400gF	CKN9417CT-ND	9.20	8.49	7.79	4584.60	K5ATWH43GP

‡ For Tape and Reel part number, change CT-ND to TR-ND.

NEW! K5A2 Series Snap Action Key Switches

Digi-Reel®

Dim. in mm

Features: • Quiet actuation • Space saving

Typical Applications: • Automotive • Computers and network equipment

Electrical Specifications: • Power Minimum/Maximum: 0.02VA/1.0VA • Voltage Minimum/Maximum: 20mVdc ~ 50Vdc • Current Minimum/Maximum 10µA ~ 100mA, Gold; 1mA ~ 100mA, Silver

Environmental Specifications: • Operating Temperature: -40°C ~ 105°C, Gold; -40°C ~ 85°C, Silver

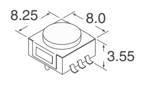

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 600	C&K Part No.
400gF, Gullwing, Silver Contacts	CKN10223CT-ND	2.97	2.75	2.52	988.20	K5A2 4N AG
400gF, Gullwing, Gold Contacts	CKN10224CT-ND	3.49	3.23	2.96	1161.00	K5A2 4N AU
600gF, Gullwing, Gold Contacts	CKN10225CT-ND	4.06	3.75	3.44	1350.00	K5A2 6N AU

‡ For Tape and Reel part number, change CT-ND to TR-ND.

K6 Series Tactile Switches

Follow the trend toward miniaturization. Distinctive tactile feel. High switching reliability. Custom designed button required.
Function: Momentary action
Circuit: SPST-NO
Switching: • Voltage Maximum: 30VDC • Current Maximum: 100mA
Contact Resistance: 50mΩ
Total Travel: 1.5mm
Contact Material: Gold over nickel
Operating Temperature: -40°C ~ 85°C

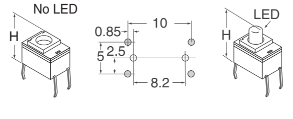

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
300gF, No LED	8.4	401-1163-ND◆	1.88	1.51	1.20	K6B 1.5 3N
300gF, Green-LED Illumination	12.3	401-1590-ND	2.70	2.50	2.29	K6BL GN 1.5 3N L306
300gF, Red-LED Illumination	12.3	401-1167-ND◆	2.49	2.00	1.58	K6BL RD 1.5 3N L352
300gF, Yellow-LED Illumination	12.3	401-1169-ND◆	2.49	2.00	1.58	K6BL YE 1.5 3N L327
500gF, No LED	8.4	401-1589-ND	2.04	1.89	1.73	K6B 1.5 5N
500gF, Yellow-LED Illumination	12.3	401-1170-ND◆	2.49	2.00	1.58	K6BL YE 1.5 5N L327

◆ ***RoHS Compliant***

K12 Series Tactile Switches

Successful in measurement and control equipment, industrial electronics and automotive applications.

Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 30VDC • Current Maximum: 100mA **Contact Resistance:** 50mΩ **Operating Temperature:** -40°C ~ 85°C

Fig. 1 — Dust Tight/Flat Top

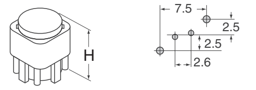

Fig. 2 — Flat Top with Snap in Pegs *NEW!*

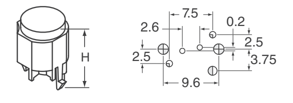

Fig. 3 — LED Illuminated

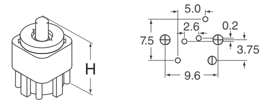

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Fig. 1 — RoHS Compliant						
Round, 500gF, Dust Tight (Process Sealed)	12.0	401-1159-ND	4.50	3.60	2.85	K12C 1 5N
Round, 250gF, Dust Tight (Process Sealed)	12.0	401-1158-ND	4.50	3.60	2.85	K12C BK 1 2.5N
Fig. 2						
Flat Top, 500gF, Cap, Black	14.5	CKN10033-ND◆ ***NEW!***	2.44	1.96	1.55	K12P BK 1 5N
Flat Top, 500gF, Cap, Black	14.5	401-1157-ND◆	2.49	2.00	1.58	K12P BK 1.5 5
Flat Top, 250gF, Cap, Black	14.5	401-1587-ND	3.05	2.82	2.58	K12P BK 2 2.5N
Flat Top, 350/700gF, 2 Contacts	14.5	401-1586-ND◆	3.30	2.64	2.09	K12GO NT 1.5 3.5-7N
Round, 500gF, Black, w/o Pegs	13.9	CKN10274-ND◆ ***NEW!***	2.49	2.00	1.58	K12A BK 1.5 5N
Fig. 3 — RoHS Compliant						
500gF, White LED	16.5	CKN10275-ND ***NEW!***	7.82	6.26	4.96	K12PL WH 1.5 5N L302

◆ ***RoHS Compliant***

ED and EDM Series Snap Domes

ED Series: Disc contact is a momentary tact switch with short travel and good tactile feedback. Discs are a snap dome short travel dome contact for mounting directly on a PCB. Designed for low profile applications where end users want to use a customized overlay to go over these domes. PC mount leads or SMT terminals.
Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: Silver/Gold 100VAC/DC • Current Maximum: Silver: 100mA; Gold: 50mA **Contact Resistance:** Silver: 10mΩ; Gold: 15mΩ **Total Travel:** 0.3mm **Operating Temperature:** -25°C ~ 70°C
EDM Series: Discs are higher performance longer travel snap domes specifically designed for applications such as aircraft instrumentation, radio keypads or other demanding applications. PC mount leads or SMT terminals.
Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 100VDC • Current Maximum: 50mA **Contact Resistance:** 15mΩ **Total Travel:** 0.4mm **Operating Temperature:** -55°C ~ 85°C

Dim. in mm

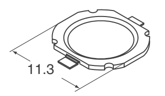

SMT Version Shown

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
ED Series Snap Domes					
With PC Pins, 240gF, Flux Sealed, Gold Plating	401-1920-ND	3.38	2.71	2.14	EDGAC0LFS
With PC Pins, 240gF, Fully Sealed, Gold Plating	401-1921-ND	3.36	2.70	2.13	EDGAC1LFS
With PC Pins, 240gF, Flux Sealed, Silver Plated	401-1924-ND	1.35	1.08	.86	EDSAC0LFS
With SMT Tabs, 240gF, Flux Sealed, Gold Plating	401-1922-ND	3.23	2.59	2.05	EDGSC0LFG
With SMT Tabs, 240gF, Fully Sealed, Gold Plating	401-1923-ND	3.36	2.70	2.13	EDGSC1LFG
With SMT Tabs, 240gF, Fully Sealed, Silver Plating	401-1927-ND	1.48	1.19	.94	EDSSC1LFS
EDM Series Snap Domes					
With Tabs, 450gF, Gold Plating	401-1946-ND	6.17	4.94	3.91	EDM 450 G SC LFG
With Tabs, 450gF, Silver Plating	401-1947-ND	5.76	4.62	3.65	EDM 450 S SC LFS
With PC Pins, 450gF, Gold Plating	401-1948-ND	6.17	4.94	3.91	EDM 450 G AC LFS
With PC Pins, 450gF, Silver Plating	401-1949-ND	5.76	4.62	3.65	EDM 450 S AC LFS
With PC Pins, 650gF, Gold Plating	401-1950-ND	7.28	5.82	4.61	EDM 650 G AC LFS
With Tabs, 650gF, Gold Plating	401-1951-ND	7.28	5.82	4.61	EDM 650 G SC LFG
With Tabs, 650gF, Silver Plating	401-1952-ND	6.80	5.44	4.31	EDM 650 S SC LFS
With PC Pins, 650gF, Silver Plating	401-1953-ND	6.80	5.44	4.31	EDM 650 S AC LFS

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Momentary Tact Switches
PTS Series

Fig.	Description	gF	Dim.H (mm)	Digi-Key Part No.	Pricing 1	25	100	Tape and Reel◊ Qty.	Pricing	C&K Part No.
				PTS Momentary Tact Switches (Non-Washable)						
1	6mm, with ESD pin	130	4.3	CKN9096-ND	.14	3.04	10.24	—	—	PTS645TL43 LFS
	6mm, w/o ESD pin	130	4.3	CKN9098-ND	.11	2.33	7.84	—	—	PTS645SL43 LFS
	6mm, with ESD pin	200	4.3	CKN9083-ND	.14	3.04	10.24	—	—	PTS645TH43 LFS
	6mm, w/o ESD pin	260	4.3	CKN9090-ND	.11	2.33	7.84	—	—	PTS645SK43 LFS
	6mm, with ESD pin	130	5.0	CKN9095-ND	.14	3.04	10.24	—	—	PTS645TL50 LFS
	6mm, w/o ESD pin	130	5.0	CKN9092-ND	.11	2.33	7.84	—	—	PTS645SL50 LFS
	6mm, w/o ESD pin	200	5.0	CKN9093-ND	.11	2.33	7.84	—	—	PTS645SH50 LFS
	6mm, with ESD pin	200	5.0	CKN9081-ND	.14	3.04	10.24	—	—	PTS645TH50 LFS
	6mm, w/o ESD pin	260	5.0	CKN9082-ND	.11	2.33	7.84	—	—	PTS645SK50 LFS
	6mm, with ESD pin	130	7.0	CKN9086-ND	.14	3.04	10.24	—	—	PTS645TL70 LFS
	6mm, w/o ESD pin	130	7.0	CKN9071-ND	.11	2.33	7.84	—	—	PTS645SL70 LFS
	6mm, w/o ESD pin	200	7.0	CKN9074-ND	.11	2.33	7.84	—	—	PTS645SH70 LFS
	6mm, w/o ESD pin	130	9.5	CKN9078-ND	.11	2.33	7.84	—	—	PTS645SL95 LFS
	6mm, w/o ESD pin	200	9.5	CKN9091-ND	.11	2.33	7.84	—	—	PTS645SH95 LFS
	6mm, w/o ESD pin	260	9.5	CKN10051-ND ***NEW!***	.15	2.94	9.31	—	—	PTS645SK95 LFS
2	6mm, Right Angle	130	3.15	CKN9094-ND	.16	3.52	11.84	—	—	PTS645VL31 LFS
	6mm, Right Angle	200	3.15	CKN9118-ND	.22	4.44	14.06	—	—	PTS645VH31 LFS
	6mm, Right Angle	260	3.85	CKN10053-ND ***NEW!***	.22	4.44	14.06	—	—	PTS645VK39 LFS
	6mm, Right Angle	130	3.85	CKN9103-ND	.16	3.52	11.84	—	—	PTS645VL39 LFS
	6mm, Right Angle	200	3.85	CKN9115-ND	.22	4.44	14.06	—	—	PTS645VH39 LFS
	6mm, Right Angle	130	5.85	CKN9116-ND	.22	4.44	14.06	—	—	PTS645VL58 LFS
	6mm, Right Angle	200	5.85	CKN9120-ND	.22	4.44	14.06	—	—	PTS645VH58 LFS
	6mm, Right Angle	130	6.1	CKN10052-ND ***NEW!***	.22	4.44	14.06	—	—	PTS645VJL61 LFS
	6mm, Right Angle	130	8.35	CKN9123-ND	.22	4.44	14.06	—	—	PTS645VL83 LFS
	6mm, Right Angle	200	8.35	CKN9121-ND	.22	4.44	14.06	—	—	PTS645VH83 LFS
	6mm, Right Angle	130	15.85	CKN9075-ND	.16	3.52	11.84	—	—	PTS645VL15 LFS
	6mm, Right Angle	200	15.85	CKN9079-ND	.16	3.52	11.84	—	—	PTS645VH15 LFS
3	6mm, w/o ESD pin	130	7.3	CKN9072-ND	.11	2.33	7.84	—	—	PTS645SJL73 LFS
	6mm, w/o ESD pin	200	7.3	CKN9073-ND	.11	2.33	7.84	—	—	PTS645SJH73 LFS
4	12mm, w/o ESD pin	130	7.3	CKN9141-ND	.42	8.46	26.79	—	—	PTS125SJM73 LFS
	12mm, w/o ESD pin	260	7.3	CKN9142-ND	.42	8.46	26.79	—	—	PTS125SJK73 LFS
5	12mm, w/o ESD pin	160	4.3	CKN9100-ND	.26	5.61	18.88	—	—	PTS125SM43 LFS
	12mm, w/o ESD pin	260	4.3	CKN9139-ND	.35	7.08	22.42	—	—	PTS125SK43 LFS
	12mm, w/o ESD pin	160	8.5	CKN9140-ND	.35	7.08	22.42	—	—	PTS125SM85 LFS
	12mm, w/o ESD pin	260	8.5	CKN9151-ND	.35	7.08	22.42	—	—	PTS125SK85 LFS
6	12mm, Right Angle Square Act.	160	6.2	CKN9101-ND	.35	7.60	25.60	—	—	PTS125VJM73 LFS
7	6mm, w/o ESD pin	160	4.3	CKN9112CT-ND†	.21	4.20	13.30	1,000	126.00	PTS645SM43SMTR LFS
	6mm, w/o ESD pin, SMT	260	4.3	CKN9084CT-ND†	.23	4.90	15.75	1,000	126.00	PTS645SK43SMTRLFS
	6mm, w/o ESD pin	130	5.0	CKN9088CT-ND†	.26	5.60	18.00	1,000	160.00	PTS645SL50SMTR LFS
	6mm, w/o ESD pin	200	5.0	CKN9085CT-ND†	.26	5.60	18.00	1,000	144.00	PTS645SH50SMTRLFS
	6mm, w/o ESD pin	260	5.0	CKN9087CT-ND†	.26	5.60	18.00	1,000	144.00	PTS645SK50SMTRLFS
8	12mm, w/o ESD pin	160	12.0	CKN9138-ND	.35	7.08	22.42	—	—	PTS125SM12 LFS
9	5.25mm, Square SMT	160	0.8	CKN9125CT-ND†	.48	9.66	30.59	3,000	289.80/M	PTS525SM08SMTR LFS
	5.25mm, Square SMT	260	0.8	CKN10229CT-ND† ***NEW!***	.52	12.08	44.28	3,000	289.80/M	PTS525SK08SMTR LFS
	5.25mm, Square SMT	160	1.5	CKN9104CT-ND†	.48	9.66	30.59	3,000	289.80/M	PTS525SM10SMTR LFS
10	6 x 3.5mm, w/o ESD pin	130	5.0	CKN9102-ND	.22	4.70	15.84	—	—	PTS635SL50 LFS
	6 x 3.5mm, w/o ESD pin	130	4.3	CKN9097-ND	.24	5.27	17.76	—	—	PTS635SL43 LFS
11	6 x 3.5mm, Right Angle	130	3.85	CKN9099-ND	.22	4.70	15.84	—	—	PTS635VL39 LFS
	6 x 3.5mm, Right Angle	130	3.15	CKN9080-ND	.22	4.70	15.84	—	—	PTS635VL31 LFS
	6 x 3.5mm, Right Angle	200	3.85	CKN9089-ND	.22	4.70	15.84	—	—	PTS635VH39 LFS
	6 x 3.5mm, Right Angle	200	3.15	CKN9077-ND	.22	4.70	15.84	—	—	PTS635VH31 LFS
12	6.1 x 3.7mm, w/o ESD pin, SMT	130	2.5	CKN9119CT-ND†	.44	8.70	27.55	3,000	261.00/M	PTS635SL25SMTR LFS
	6.1 x 3.7mm, w/o ESD pin, SMT	260	2.5	CKN9076CT-ND†	.47	10.15	32.63	3,000	261.00/M	PTS635SK25SMTR LFS

† Cut Tape ◊ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

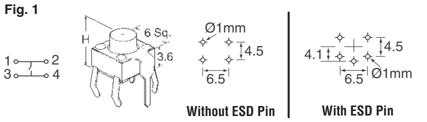

Fig. 2

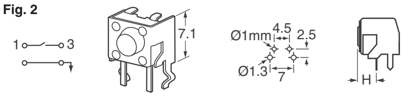

Fig. 3

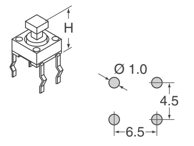

Fig. 4

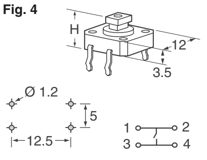

Fig. 5

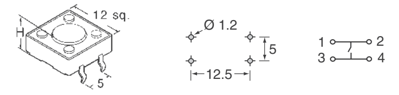

Fig. 6

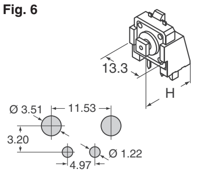

Fig. 7

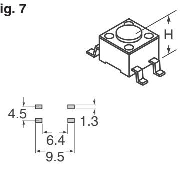

Fig. 8

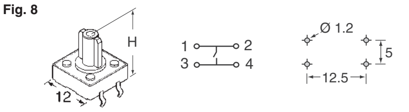

Fig. 9

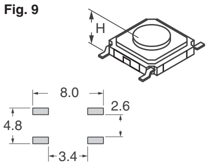

Fig. 10

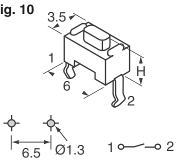

Fig. 11

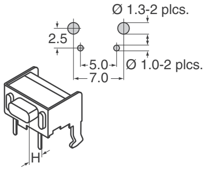

Fig. 12

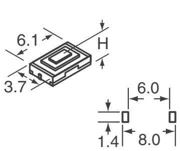

TPC Tri-Directional
Scan Switches

Dimensions in mm

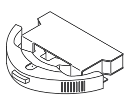

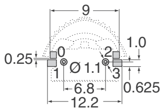

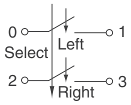

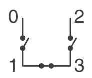

Initial

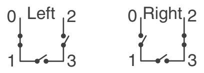

Scan

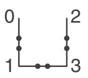

Select

The TPC is a side-actuated miniature switch with normally open contacts providing tactile feedback. Rotation of the actuator closes two individual contacts (left or right), while pushing down in central position simultaneously closes the two contacts.

Applications: Mobile phones, pagers, personal data assistants (PDAs), handheld electronic devices, digital cameras, camcorders and communication equipment

Specifications:
- **Maximum Voltage:** 50V • **Minimum/Maximum Current:** 1mA/50mA
- **Life Expectancy:** 100,000 operations • **Bounce:** <10ms • **Operating Temperature:** -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Part No.
SMT Switch with Select	401-1264-1-ND	2.17	2.01	1.84	401-1264-2-ND	2,000	1200.60/M	TPC1133GLFG

TPA Series SMT Navigation Switches

Dimensions in mm

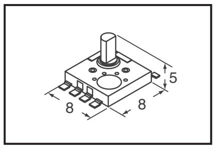

Actuating the shaft in the up, down, right or left direction individually closes four momentary contacts which provide the scanning function.

Specifications:

- **Switching:** Voltage Maximum: 24V
- **Current Maximum:** Silver: 50mA; Gold: 10mA
- **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 110°C
- **Life Expectancy:** 200,000 operations *Push to select = 400gF*

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing† 1,000	C&K Part No.
Momentary, 4-Directional with Selection, 185gF, Silver, Gullwing	401-1130-1-ND	1.56	1.44	1.32	862.20	TPA511GLFS
Cap Switch Black Plastic for TPA	401-1997-ND◊	.85	.68	.54	—	BOUTON TPA

† For Tape and Reel part number, change 1-ND to 2-ND. ◊ Bulk

KSA Series Sealed Tact Switches

Miniature tact switch is designed for automatic or manual insertion.

Dimensions in mm

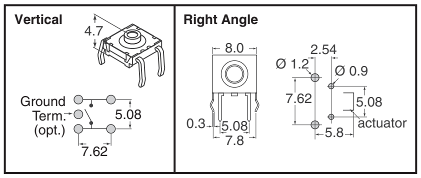

Specifications:

- **Circuit:** SPST-NO
- **Switching:** Current Maximum: Silver: 50mA; Gold: 10mA
- **Voltage Maximum:** 32VDC
- **Contact Resistance:** 100mΩ
- **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

MARK II Versions are washable

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 6.2mm sq., 130gF, Mark II Sealed, Long Life, Gold	401-1812-ND	.44	.40	.35	KSA0M332LFT
Vertical, 6.2mm sq., 300gF, Mark II Sealed, Gold	401-1815-ND	.64	.59	.54	KSA0M432LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed	401-1807-ND	.50	.47	.43	KSA0M211LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Long Life	401-1809-ND	.50	.47	.43	KSA0M311LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Long Life, Gold	401-1811-ND	.65	.60	.55	KSA0M331LFT
Vertical, 7.4mm sq., 300gF, Mark I Sealed	401-1813-ND	.50	.47	.43	KSA0M411LFT
Vertical, 7.4mm sq., 300gF, Sealed, Gold	CKN9955-ND ✔	.60	.48	.38	KSA0M431LFT
Vertical, 7.4mm sq., 500gF, Mark I Sealed	401-1816-ND	.55	.51	.47	KSA0M511LFT
Vertical, 7.4mm sq., 300gF, Sealed, Silver	CKN9954-ND ✔	.51	.41	.33	KSA0M911LFT
Vertical, 7.4mm sq., 130gF, with Ground	401-1823-ND	.58	.54	.49	KSA1M211LFT
Vertical, 7.4mm sq., 130gF, Long Life, with Ground	401-1824-ND	.58	.54	.49	KSA1M311LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Gold, with Ground	401-1825-ND	.85	.78	.72	KSA1M331LFT
Vertical, 7.4mm sq., 300gF, with Ground	401-1826-ND	.58	.54	.49	KSA1M411LFT
Right Angle, 8.0mm sq., 130gF, Mark I Sealed	401-1818-ND	.63	.59	.54	KSA0V211LFT
Right Angle, 8.0mm sq., 130gF, Mark I Sealed, Long Life	401-1819-ND	.63	.59	.54	KSA0V311LFT

✔ NEW!

KSA Series Snap-On Switch Caps (Mark I Version Only)

Dimensions in mm

Snap-on buttons for vertical KSA switches snap over and are held in place by the KSA body. All buttons must be mounted after the soldering and cleaning process. Buttons may be screen printed for custom legend appearances.

Note: *Switch sold separately*

Fig. 1

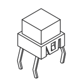

Fig. 2

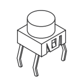

Fig. 3 ***NEW!***

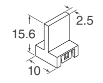

Color	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Fig. 1 — 10mm Square Cap					
Black	401-1237-ND	.40	.37	.34	BTNK0190
Red	401-1238-ND	.40	.37	.34	BTNK0140
Light Grey	401-1239-ND	.40	.37	.34	BTNK0120
Dark Grey	401-1240-ND	.40	.37	.34	BTNK0110
Yellow	401-1241-ND	.59	.55	.50	BTNK0130
Blue	401-1242-ND	.40	.37	.34	BTNK0160
Green	401-1243-ND	.54	.50	.46	BTNK0150
Ivory	401-1244-ND	.61	.57	.52	BTNK0180
Grey-Blue	401-1245-ND	.40	.37	.34	BTNK0170
Fig. 2 — 8mm Round Cap					
Black	401-1246-ND	.40	.37	.34	BTNK0290
Red	401-1247-ND	.40	.37	.34	BTNK0240
Light Grey	401-1248-ND	.40	.37	.34	BTNK0220
Dark Grey	401-1249-ND	.40	.37	.34	BTNK0210
Yellow	401-1250-ND	.40	.37	.34	BTNK0230
Blue	401-1251-ND	.40	.37	.34	BTNK0260
Green	401-1252-ND	.40	.37	.34	BTNK0250
Ivory	401-1253-ND	.40	.37	.34	BTNK0280
Grey-Blue	401-1254-ND	.40	.37	.34	BTNK0270
NEW! Fig. 3 — 10 X 2.5mm Handle NEW!					
Black	CKN9831-ND	.48	.39	.31	BTNK0690

KSR Series Low Profile Tact Switches

Dimensions in mm

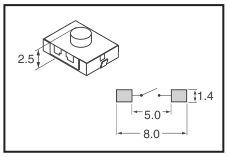

The KSR Series Switches are a miniature tact switch. The extremely small overall dimensions make the KSR fit perfectly in small applications where density of components is a major constraint.

Applications: • Cellular phones • Recorders • Computers • Pointers • Radios • Medical instrumentation • Car entry remote

Specifications: • **Circuit:** SPST-NO • **Switching:** Voltage Minimum/Maximum: 20mV/32V • **Current:** Silver: 50mA; Gold: 50mA • **Operating Temperature:** Silver: -40°C ~ 85°C, Gold: -40°C ~ 125°C • **Contact Material:** Gold and Silver Plated

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 2,500	C&K Part No.
180gF, Gullwing, SMD, Silver	401-1702-1-ND	.53	.49	.45	293.40/M	KSR211GLFS
200gF, Gullwing, SMD, Silver	401-1703-1-ND	.63	.59	.54	351.00/M	KSR221GLFS
200gF, Gullwing, SMD, Gold	401-1704-1-ND	.73	.68	.62	403.20/M	KSR223GLFG
200gF, Gullwing, SMD, Gold	401-1705-1-ND◊	1.07	.99	.91	592.00/M	KSR223GNCLFG
300gF, Gullwing, SMD, Silver	401-1706-1-ND	.53	.49	.45	293.40/M	KSR231GLFS
300gF, Gullwing, SMD, Gold	CKN10283CT-ND§ ***NEW!***	.74	.69	.63	408.60/M	KSR233G LFG
450gF, Gullwing, SMD, Silver	401-1707-1-ND	.64	.60	.55	354.60/M	KSR251GLFS
450gF, Gullwing, SMD, Gold	401-1708-1-ND	.85	.79	.73	471.60/M	KSR253GLFG
Long Life Version						
300gF, Gullwing, SMD, Silver	CKN9190CT-ND§	.52	.49	.45	372.60/M	KSR232G LFS
450gF, Gullwing, SMD, Gold	CKN9193CT-ND§	.75	.69	.64	489.60/M	KSR254G LFG

◊ Normally Closed ‡ For Tape and Reel part number, change 1-ND to 2-ND.
§ For Tape and Reel part number, change CT-ND to TR-ND.

KSL Series Tact Switches (Washable)

MARK II Versions are improved seal versions for immersed cleaning. **Specifications:** • **Circuit:** SPST-NO • **Switching:** Voltage Maximum: 50VDC • **Current Maximum:** Silver: 50mA; Gold: 10mA • **Contact Resistance:** 50mΩ • **Contact Material:** Silver plated • **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

Dimensions in mm

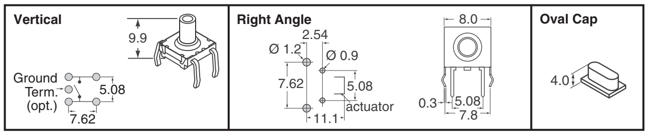

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 130gF, Totally Sealed	401-1828-ND	.60	.56	.51	KSL0M211LFT
Vertical, 130gF, Mark II Sealed	401-1829-ND	.59	.54	.50	KSL0M212LFT
Vertical, 130gF, Mark II Sealed, Long Life	401-1831-ND	.59	.54	.50	KSL0M312LFT
Vertical, 300gF, Totally Sealed	401-1833-ND	.60	.56	.51	KSL0M411LFT
Vertical, 300gF, Mark II Sealed	401-1834-ND	.59	.54	.50	KSL0M412LFT
Vertical, 300gF, Flux Sealed, Gold	401-1835-ND	.78	.72	.66	KSL0M431LFT
Vertical, 130gF, Totally Sealed, with Ground	401-1843-ND	.68	.63	.58	KSL1M211LFT
Right Angle, 130gF, Totally Sealed, Long Life	401-1839-ND	.77	.71	.65	KSL0V311LFT
Right Angle, 300gF, Totally Sealed	401-1841-ND	.77	.71	.65	KSL0V411LFT
Oval Cap, 9.5mm x 5.6mm, Black	401-1424-ND	.40	.37	.34	BTNK0390

KSS Series Miniature Side Actuated Tact Switches

Specifications: • **Circuit:** SPST-NO • **Switching:** Maximum Voltage: 50V • **Current:** Minimum/Maximum Silver: 1mA/50mA; Gold: 1mA/10mA • **Life Expectancy:** 10^5 operations • **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Dimensions in mm

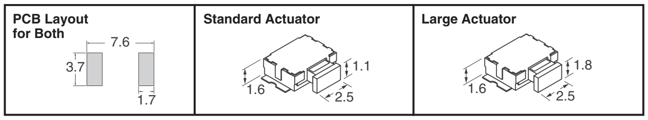

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 3,000	C&K Part No.
Standard Actuator, 200gF, Gullwing	401-1097-1-ND	.52	.49	.45	289.80/M	KSS221GLFS
Standard Actuator, 200gF, Gullwing, Gold	401-1522-1-ND	.73	.68	.62	405.00/M	KSS223GLFG
Standard Actuator, 250gF, Gullwing	401-1098-1-ND	.52	.49	.45	289.80/M	KSS231GLFS
Standard Actuator, 250gF, Gullwing, Gold	401-1698-1-ND	.57	.53	.44	—	KSS233GLFG
Standard Actuator, 400gF, Gullwing	401-1099-1-ND	.52	.49	.45	289.80/M	KSS241GLFS
Standard Actuator, 400gF, Gullwing, Gold	401-1523-1-ND	.60	.56	.52	—	KSS243GLFG
Large Actuator, 200gF, Gullwing	401-1100-1-ND	.60	.56	.51	331.20/M	KSS321GLFS
Large Actuator, 250gF, Gullwing	401-1101-1-ND	.60	.56	.51	331.20/M	KSS331GLFS
Large Actuator, 400gF, Gullwing	401-1102-1-ND	.60	.56	.51	331.20/M	KSS341GLFS

† For Tape and Reel part number, change 1-ND to 2-ND.

C&K RAFI SOLUTIONS WITH PASSION

RF 19 and RF 15 Short-Travel Key Switches

Specifications:
- **Maximum Rated Voltage:** Gold:42V Silver: 50V
- **Maximum Rated Current:** Gold 100mA; Silver 250mA
- **Operating Temperature Range:** -25°C ~ 70°C
- **Operating Life:** 1,000,000 operations minimum

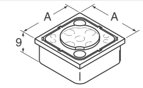

Dim. in mm

Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
RF 19 Gold, PCB	19.05	CKN9212-ND	4.10	3.29	2.60	3.14001.0010000
RF 19 Silver, PCB	19.05	CKN9213-ND	3.59	2.88	2.28	3.14001.0060000
RF 15 Gold, PCB	15.00	CKN9374-ND	3.50	2.81	2.22	3.14100.0010000
RF 15 Silver, PCB	15.00	CKN9375-ND	3.16	2.53	2.01	3.14100.0060000

C&K

KMX Series Microminiature Tact Switches for SMT

Dimensions in mm

Allows higher board density with compact SMT switch for ultra low profile environment: cell phone keypads, key fob, white goods, medical and military
Features: • Ultra low profile 0.58mm
• Sharp tactile feel plus audible click
• Operating life: 250k cycles

Digi-Reel®

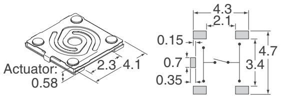

Description	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape & Reel Pricing† 10,000	C&K Part No.
160gF, Gullwing, Silver, No Actuator	401-1957-1-ND	.26	6.08	22.28	145.80/M	KMX111G
160gF, Gullwing, Gold, No Actuator	401-1959-1-ND	.39	9.00	33.00	216.00/M	KMX113G
220gF, Gullwing, Silver, No Actuator	401-1960-1-ND	.26	6.08	22.28	145.80/M	KMX121G
220gF, Gullwing, Gold, No Actuator	401-1961-1-ND	.39	9.00	33.00	216.00/M	KMX123G
160gF, Gullwing, Silver, 1.4mm Actuator	401-1610-1-ND	.26	6.08	22.28	121.50/M	KMX211G
160gF, Gullwing, Gold, 1.4mm Actuator	401-1611-1-ND	.39	9.00	33.00	180.00/M	KMX213G
220gF, Gullwing, Gold, 1.4mm Actuator	401-1613-1-ND	.39	9.00	33.00	180.00/M	KMX223G

† For Tape and Reel part number, change 1-ND to 2-ND.

KMR Series Microminiature Tact Switches for SMT

Digi-Reel®

Specifications:
- **Circuit:** SPST-NO
- **Maximum Voltage:** 32VDC
- **Maximum Current DC:** Silver: 50mA; Gold: 10mA
- **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

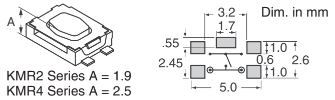

KMR2 Series A = 1.9
KMR4 Series A = 2.5

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Qty.	Pricing†	C&K Part No.
120gF, Gullwing, Silver Contacts	401-1426-1-ND	.37	.35	.32	7,000	207.00/M	KMR211GLFS
120gF, Gullwing, Silver Contacts	CKN10243CT-ND ✔	.37	.35	.32	7,000	207.00/M	KMR211NG LFS
200gF, Gullwing, Silver Contacts	401-1427-1-ND	.37	.35	.32	7,000	207.00/M	KMR221GLFS
200gF, Gullwing, Silver Contacts	CKN10244CT-ND ✔	.37	.35	.32	7,000	207.00/M	KMR221NG LFS
200gF, Gullwing, Gold Contacts	401-1428-1-ND	.53	.49	.45	7,000	291.60/M	KMR223GLFG
200gF, Gullwing, Gold Contacts	CKN10272CT-ND ✔	.53	.49	.45	7,000	291.60/M	KMR223NG LFG
300gF, Gullwing, Silver Contacts	401-1429-1-ND	.40	.37	.34	7,000	219.60/M	KMR231GLFS
300gF, Gullwing, Silver Contacts	CKN10245CT-ND ✔	.40	.38	.35	7,000	223.20/M	KMR231G ULC LFS
300gF, Gullwing, Silver Contacts	CKN10246CT-ND ✔	.40	.37	.34	7,000	219.60/M	KMR231NG LFS
300gF, Gullwing, Silver Contacts	CKN10284CT-ND ✔	.40	.38	.35	7,000	223.20/M	KMR231NG ULC LFS
400gF, Gullwing, Silver Contacts	401-1431-1-ND	.40	.37	.34	7,000	219.60/M	KMR241GLFS
400gF, Gullwing, Silver Contacts	CKN10248CT-ND ✔	.40	.38	.35	7,000	223.20/M	KMR241G ULC LFS
400gF, Gullwing, Silver Contacts	CKN10247CT-ND ✔	.40	.37	.34	7,000	219.60/M	KMR241NG LFS
400gF, Gullwing, Silver Contacts	CKN10285CT-ND ✔	.40	.38	.35	7,000	223.20/M	KMR241NG ULC LFS
400gF, Gullwing, Gold Contacts	401-1432-1-ND	.53	.49	.45	7,000	291.60/M	KMR243GLFG
200gF, Gullwing, Silver Contacts	CKN10249CT-ND ✔	.37	.35	.32	6,000	207.00/M	KMR421G LFS
300gF, Gullwing, Silver Contacts	CKN10250CT-ND ✔	.40	.37	.34	6,000	219.60/M	KMR431G LFS
300gF, Gullwing, Silver Contacts	CKN10251CT-ND ✔	.40	.38	.35	6,000	223.20/M	KMR432G LFS
400gF, Gullwing, Silver Contacts	CKN10252CT-ND ✔	.40	.37	.34	6,000	219.60/M	KMR441G LFS
400gF, Gullwing, Silver Contacts	CKN10286CT-ND ✔	.40	.37	.34	6,000	219.60/M	KMR441NG LFS
400gF, Gullwing, Silver Contacts	CKN10287CT-ND ✔	.40	.38	.35	6,000	223.20/M	KMR441NG ULC LFS
400gF, Gullwing, Silver Contacts	CKN10253CT-ND ✔	.40	.38	.35	6,000	223.20/M	KMR442G LFS

✔ ***NEW!*** † For Tape and Reel part number, change 1-ND to 2-ND or CT-ND to TR-ND.

KMT Series Nano-Miniature SMT Top Actuated Switches

Digi-Reel®

Dimensions in mm

Features: • Smallest footprint • Smallest thickness with integrated actuator **Applications:** • Mobile Phones • Hearing Aids • MP3 Accessories • Bluetooth Headset **Specifications: Mechanical:** • **Operating Life:** G and NG type: 150,000 cycles; NGJ type: ≥ 300,000 cycles **Electrical:** • Maximum Power: 0.5VA • Maximum/Minimum Voltage: 32VDC/20mV • Maximum/Minimum Current DC: 50mA/1mA **Environmental:** • **Operating Temperature:** -40°C ~ 85°C

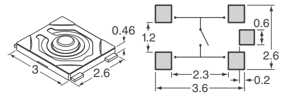

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T&R Pricing† 4,000	C&K Part No.
100gF, Gullwing, with Ground	CKN9432CT-ND	.50	.47	.43	279.00/M	KMT211G HF LFS
100gF, Gullwing	CKN9433CT-ND	.50	.47	.43	279.00/M	KMT211NG HF LFS
160gF, Gullwing, with Ground	CKN9434CT-ND	.50	.47	.43	279.00/M	KMT221G HF LFS
160gF, Gullwing	CKN9435CT-ND	.50	.47	.43	279.00/M	KMT221NG HF LFS
100gF, Silver	CKN10288CT-ND ✔	.26	.24	.22	144.00/M	KMT011 NGJ LHS
160gF, Silver	CKN10289CT-ND ✔	.26	.24	.22	144.00/M	KMT021 NGJ LHS
340gF, Silver	CKN10290CT-ND ✔	.26	.24	.22	144.00/M	KMT031 NGJ LHS
230gF, Silver	CKN10291CT-ND ✔	.26	.24	.22	144.00/M	KMT071 NGJ LHS

✔ ***NEW!*** † For Tape and Reel part number, change CT-ND to TR-ND.

K5G Series Double Stroke Key Switches

Digi-Reel®

Dimensions in mm

Features: • Excellent tactile feel • Low profile • Quiet Actuation
Applications: • Automotive: Window lift, Sun-roof control • Multi-function devices
Mechanical: • Operating Force First Stroke: 3.7N+ 0.8 ~ 0.5N • Operating Force Second Stroke: 6.5N + 0.8 ~ 0.5N • Electrical Travel First Stroke: 0.5mm • Electrical Travel Second Stroke: 0.85mm • Total Travel: 1mm • Operating Life: 30,000 actuations
Environmental: • Operating Temperature: -40°C ~ 85°C, Silver; -40°C ~ 105°C, Gold

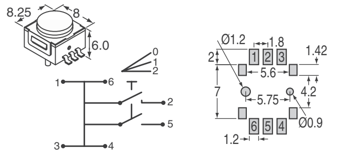

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 500	C&K Part No.
400/650gF, Gullwing, Gold contacts	CKN9436CT-ND	3.39	3.14	2.88	939.60	K5G4/6.5N AU
400/650gF, Gullwing, Silver contacts	CKN10226CT-ND ***NEW!***	2.72	2.52	2.31	754.20	K5G 4/6.5N AG

† For Tape and Reel part number, change CT-ND to TR-ND.

MD and MDP Series Pushbutton Switches

MD Series: Small momentary key switch with a protective rubber actuator **MDP Series:** Small momentary key switch equipped with a button: can be PC mounted **Specifications:** • **Circuit:** SPST • **Switching:** Voltage Maximum: 100V AC/DC; Current Maximum: Silver: 100mA AC/DC; Gold: 50mA AC/DC • **Operating Temperature:** -25°C ~ 70°C

Dimensions in mm

MD

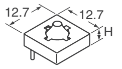

MDP Cap

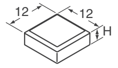

MDP (Shown w/ Optional Cap)

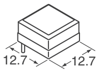

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
MD Series						
With Rubber Actuator, 260gF, Gold Plated	5	401-1931-ND	3.80	3.05	2.41	MDGLFS
With Rubber Actuator, 260gF, Silver Plated	5	401-1932-ND	2.65	2.12	1.68	MDSLFS
With Rubber Actuator, 260gF, Silver Plated	5	CKN10045-ND† ***NEW!***	2.60	2.08	1.65	MD S SG LFS
MDP Series						
No Cap, 240gF, Gold Plated	3.5	401-1933-ND	3.80	3.05	2.41	MDPGLFS
No Cap, 240gF, Silver Plated	3.5	401-1934-ND	2.65	2.12	1.68	MDPSLFS
No Cap, 240gF, Gold Plated	3.4	CKN9431-ND†	3.80	3.05	2.41	MDPGSGLFS
No Cap, 240gF, Silver Plated	3.4	CKN9430-ND†	2.65	2.12	1.68	MDPSSGLFS

Description	Digi-Key Part No.	Pricing 1	25	100	C&K Part No.
Switch Caps for MDP Series					
White, 12mm square, Finger Recessed	401-1175-ND‡	.47	9.36	29.64	BTN MDP 00
Red, 12mm square, Finger Recessed	401-1177-ND‡	.30	6.00	19.00	BTN MDP 40
Blue, 12mm square, Finger Recessed	401-1178-ND‡	.30	6.00	19.00	BTN MDP 60
Black, 12mm square, Finger Recessed	401-1179-ND‡	.30	6.00	19.00	BTN MDP 90

‡ Not recommended for new design † Glyptal resin to increase sealing on terminals

K5V Series Illuminated Tact Switches

Digi-Reel®

Features: • Gold plated dome contact • Excellent ergonomics • High bright LEDs **Specifications:** • Function: Momentary action, SPDT **Mechanical:** • Operating Force: 400gF • Operating Life: 25,000 operations **Electrical:** • Power Minimum/Maximum: 0.02VA/1.0VA • Voltage Minimum/Maximum: 20mVDC/32VDC • Current Minimum/Maximum: 0.1mA/100mA **Environmental:** • Operating Temperature: -40°C ~ 85°C

Dimensions in Inches (mm)

Fig. 1

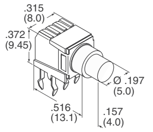

Fig. 2

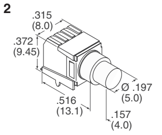

Fig. 3

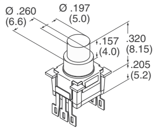

Fig.	Color	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 330	C&K Part No.
Right Angle, Thru-Hole								
1	Blue	401-1854-ND	9.53	7.63	6.04	—	—	K5V1BU43T
	Green	401-1657-ND	8.94	8.26	7.57	—	—	K5V1GN43T
	Red	401-1658-ND	9.20	8.50	7.79	—	—	K5V1RD43T
	Yellow-Green	401-1659-ND	7.23	6.68	6.13	—	—	K5V1YG43T
	White	CKN10269-ND ✔	5.61	4.49	3.56	—	—	K5V1WS43T
	Clear/No LED	CKN10265-ND ✔	5.84	4.68	3.71	—	—	K5V2CL43T
	White	CKN10266-ND ✔	5.61	4.49	3.56	—	—	K5V2WX43T
Right Angle, SMT								
2	Blue	401-1852-1-ND	11.61	10.72	9.83	401-1852-2-ND	2121.77	K5V1BU43G
	Green	401-1662-1-ND	10.03	9.27	8.49	401-1662-2-ND	1833.68	K5V1GN43G
	White	401-1855-1-ND	9.69	8.95	8.21	401-1855-2-ND	1771.31	K5V1WH43G
	Green	401-1664-1-ND	8.52	6.30	4.99	401-1664-2-ND	1557.47	K5V1GN43G
	White	CKN10270CT-ND ✔	7.05	6.51	5.97	CKN10270TR-ND ✔	1288.98	K5V1WS43G
	White	CKN10267CT-ND ✔	7.05	6.51	5.97	CKN10267TR-ND ✔	1288.98	K5V2WX43G
	Clear/No LED	CKN10268CT-ND ✔	6.08	5.61	5.15	CKN10268TR-ND ✔	1110.78	K5V2CL43G
Panel Mount								
3	Blue	401-1853-ND	9.77	9.02	8.27	—	—	K5V1BU43P
	Yellow-Green	401-1653-ND	6.68	6.17	5.66	—	—	K5V1YG43P

✔ ***NEW!***

C&K KS Series Key Switches

Dimensions in mm

Contact Material:

Q Movable Contacts: Beryllium copper, silver plated 25mA maximum @ 50VAC/DC maximum **Stationary Contacts and All Terminals:** Copper alloy, silver plated

B Contacts: Gold Terminals: Gold Rating: 25mA maximum @ 50VAC/DC maximum

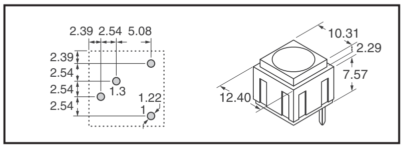

Circuit	Switch Function	Contact Material	Cap Color	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
KS Momentary Key Switches (Non-Washable)								
SPST	Momentary (N/O)	B	White	CKN4077-ND	2.79	2.24	1.77	KS11R21CBD
		Q	White	CKN4078-ND	1.81	1.45	1.15	KS11R21CQD
		Q	White	CKN1590-ND	3.20	2.56	2.03	KS11R21CQE
		B	Black	CKN4079-ND	2.79	2.24	1.77	KS11R22CBD
		Q	Black	CKN4080-ND	1.81	1.45	1.15	KS11R22CQD
		Q	Black	CKN1591-ND	3.20	2.56	2.03	KS11R22CQE
		B	Red	CKN4081-ND	2.86	2.29	1.82	KS11R23CBD
		Q	Red	CKN4082-ND	1.81	1.45	1.15	KS11R23CQD
		Q	Blue	CKN1592-ND	2.14	1.72	1.36	KS11R27CQD
SPDT	Momentary	Q	White	CKN1593-ND	2.60	2.09	1.65	KS12R21CQD
		B	Black	CKN1594-ND	4.46	3.58	2.83	KS12R22CBE
		Q	Black	CKN1595-ND	2.60	2.09	1.65	KS12R22CQD
		Q	Black	CKN1596-ND	3.34	2.68	2.12	KS12R22CQE

DIGITAST SE Series Key Switches

This series is the most versatile electronic switch for printed circuit boards, especially when used with dual in-line packages. Vibration free, short smooth travel through pivoted button tops. Available as momentary button switch as well as push-push action with over-travel release. Micro SPDT system with tactile feeling. Two integral molded "standoff" pins for alignment on PC boards.

Dimensions in mm

Specifications:
- **Circuit:** SPDT
- **Switching:** Voltage Maximum: 24VDC; Current Maximum: 10mA DC
- **Operating Life:** OA: 5,000,000 operations; EE: 500,000 operations
- **Switching Travel:** 0.0591

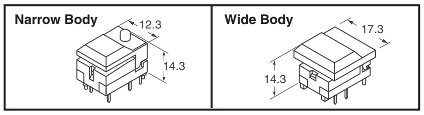

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Narrow Body					
Momentary Action, Black Cap, No LED	401-1107-ND	3.85	3.42	3.00	SER BK AU OA
Momentary Action, Blue Cap, No LED	401-1229-ND	3.85	3.42	3.00	SER BU AU OA
Momentary Action, Green Cap, No LED	401-1230-ND	4.10	3.65	3.20	SER GN AU OA
Momentary Action, Grey Cap, No LED	401-1109-ND	3.85	3.42	3.00	SER GY AU OA
Momentary Action, Red Cap, No LED	401-1111-ND	3.67	3.26	2.86	SER RD AU OA
Momentary Action, Yellow Cap, No LED	401-1232-ND	3.67	3.26	2.86	SER YE AU OA
Momentary Action, Black Cap, Green LED	401-1115-ND	5.99	5.33	4.66	SERL BK GN 7.62 AU OA
Alternate Action, Black Cap, Green LED	401-1669-ND ***NEW!***	11.31	9.05	7.17	SERL BK GN 7.62 AU EE
Momentary Action, Black Cap, Red LED	401-1113-ND	5.99	5.33	4.66	SERL BK RD 7.62 AU OA
Momentary Action, Grey Cap, Red LED	401-1117-ND	7.98	6.39	5.06	SERL GY RD 7.62 AU OA
NEW! Body Only NEW!					
Body only, No Button, Non-Latching	CKN10277-ND	4.26	3.41	2.70	SERU AU OA
Wide Body					
Momentary Action, Black Cap, No LED	401-1122-ND	3.85	3.42	3.00	SET BK AU OA
Momentary Action, Grey Cap, No LED	401-1124-ND	3.85	3.42	3.00	SET GY AU OA
Momentary Action, Blue Cap, No LED	401-1233-ND	3.67	3.26	2.86	SET BU AU OA
Momentary Action, Red Cap, No LED	401-1234-ND	3.85	3.42	3.00	SET RD AU OA
Momentary Action, White Cap, No LED	401-1235-ND	4.10	3.65	3.20	SET WH AU OA
Alternate Action, Black Cap, Green LED	401-1670-ND	9.50	8.45	7.39	SETL BK GN 7.62 AU EE
Momentary Action, Black Cap, Red LED	401-1125-ND	5.99	5.33	4.66	SETL BK RD 7.62 AU OA

D6 Series Pushbutton Switches

Specifications: • **Circuit:** SPST • **Switching:** Current Maximum: 100mA AC • **Dielectric Strength:** 1000VAC • **Contact Resistance:** ≤100mΩ • **Switching Travel:** 0.0301 • **Contact Material:** Silver Plated • **Operating Temperature:** -20°C ~ 85°C • **Life Expectancy:** F1 version – 250k operations; F2 version – 100k operations

Dimensions in mm

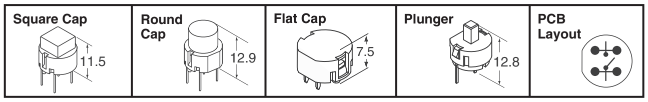

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Square Cap					
White, Momentary Action, 130gF	401-1963-ND	1.03	.83	.65	D6C00 F1 LFS
White, Momentary Action, 250gF	401-1982-ND	1.03	.83	.65	D6C00 F2 LFS
Grey, Momentary Action, 130gF	401-1964-ND	1.03	.83	.65	D6C10 F1 LFS
Grey, Momentary Action, 250gF	401-1983-ND	1.03	.83	.65	D6C10 F2 LFS
Yellow, Momentary Action, 130gF	401-1965-ND	1.03	.83	.65	D6C30 F1 LFS
Yellow, Momentary Action, 250gF	401-1984-ND	1.03	.83	.65	D6C30 F2 LFS
Red, Momentary Action, 130gF	401-1966-ND	1.03	.83	.65	D6C40 F1 LFS
Red, Momentary Action, 250gF	401-1985-ND	1.03	.83	.65	D6C40 F2 LFS
Green, Momentary Action, 130gF	401-1967-ND	1.03	.83	.65	D6C50 F1 LFS
Green, Momentary Action, 250gF	401-1986-ND	1.03	.83	.65	D6C50 F2 LFS
Blue, Momentary Action, 130gF	401-1968-ND	1.03	.83	.65	D6C60 F1 LFS
Blue, Momentary Action, 250gF	401-1987-ND	1.03	.83	.65	D6C60 F2 LFS
Black, Momentary Action, 130gF	401-1969-ND	1.03	.83	.65	D6C90 F1 LFS
Black, Momentary Action, 250gF	401-1988-ND	1.03	.83	.65	D6C90 F2 LFS
White, Momentary Action, 130gF	401-1972-ND	1.03	.83	.65	D6R00 F1 LFS
White, Momentary Action, 250gF	401-1989-ND	1.03	.83	.65	D6R00 F2 LFS
Grey, Momentary Action, 130gF	401-1973-ND	1.03	.83	.65	D6R10 F1 LFS
Grey, Momentary Action, 250gF	401-1990-ND	1.03	.83	.65	D6R10 F2 LFS
Yellow, Momentary Action, 130gF	401-1974-ND	1.03	.83	.65	D6R30 F1 LFS

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Round Cap					
Yellow, Momentary Action, 250gF	401-1991-ND	1.03	.83	.65	D6R30 F2 LFS
Red, Momentary Action, 130gF	401-1975-ND	1.03	.83	.65	D6R40 F1 LFS
Red, Momentary Action, 250gF	401-1992-ND	1.03	.83	.65	D6R40 F2 LFS
Green, Momentary Action, 130gF	401-1976-ND	1.03	.83	.65	D6R50 F1 LFS
Green, Momentary Action, 250gF	401-1993-ND	1.03	.83	.65	D6R50 F2 LFS
Blue, Momentary Action, 130gF	401-1977-ND	1.03	.83	.65	D6R60 F1 LFS
Blue, Momentary Action, 250gF	401-1994-ND	1.03	.83	.65	D6R60 F2 LFS
Black, Momentary Action, 130gF	401-1978-ND	1.03	.83	.65	D6R90 F1 LFS
Black, Momentary Action, 250gF	401-1995-ND	1.03	.83	.65	D6R90 F2 LFS
Flat Cap					
Black, Momentary Action, 130gF	401-1970-ND	1.03	.83	.65	D6F90 F1 LFS
Black, Momentary Action, 250gF	401-2020-ND	1.03	.83	.65	D6F90 F2 LFS
Plunger					
Black, Momentary Action, 130gF	401-1971-ND	1.03	.83	.65	D6L90 F1 LFS
Black, Momentary Action, 250gF	401-2019-ND	1.03	.83	.65	D6L90 F2 LFS
Square Button					
White, For D6C Series	CKN10094-ND ***NEW!***	.56	.45	.36	BTN D6 00 F
Grey, For D6C Series	401-1979-ND	.56	.45	.36	BTND610F
Red, For D6C Series	401-1980-ND	.56	.45	.36	BTND640F
Blue, For D6C Series	401-1981-ND	.56	.45	.36	BTND660F
Black, For D6C Series	401-1996-ND	.56	.45	.36	BTND690F

RTE Series Miniature Rotary Switches

Specifications:

• **Switching:** Voltage Maximum: Silver Contacts: 50VDC; Gold Contacts: 30VDC • **Current:** 100mA • **Operating Temperature:** -25°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C

Dimensions in mm

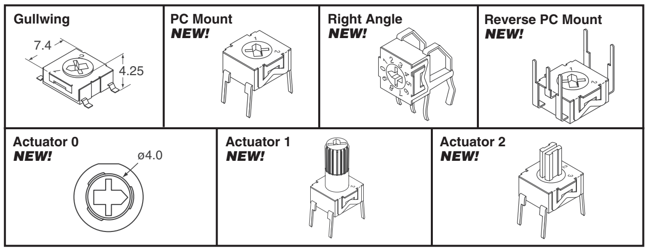

Description	Actuator	Digi-Key Part No.	Cut Tape Price Each 1	25	100	C&K Part No.
NEW! 2 Position Selectors - SPDT NEW!						
Gullwing, SMT, Gold Plating	0	401-1935-1-ND	1.93	1.78	1.64	RTE0200G04
Gullwing, SMT, Gold Plating	0	401-1935-2-ND§		1334.25/1,250		RTE0200G04
Gullwing, SMT, Silver Plating	0	401-1863-1-ND	1.49	1.38	1.26	RTE0200G05
Gullwing, SMT, Silver Plating	0	401-1863-2-ND§		929.25/1,250		RTE0200G05
PC Mount, Thru-hole, Silver Plating	0	401-1864-ND‡	1.16	.93	.74	RTE0200N05
PC Mount, Thru-hole, Gold Plating	0	401-1936-5-ND†	1.58	1.27	1.01	RTE0200N04
PC Mount, Thru-hole, Gold Plating	1	401-1938-5-ND†	1.80	1.44	1.14	RTE0201N04
PC Mount, Thru-hole, Silver Plating	1	401-1865-ND‡	1.35	1.09	.86	RTE0201N05
PC Mount, Thru-hole, Silver Plating	0	CKN10256-ND†	1.16	.93	.74	RTE0210N05
Reverse PC Mt., Thru-hole, Silver Plating	0	CKN10255-ND†	1.25	1.00	.80	RTE0200R05
Reverse PC Mt., Thru-hole, Gold Plating	0	CKN10257-ND†	1.61	1.29	1.03	RTE0210R04
3 Position Selectors - SP3T						
Gullwing, SMT, Gold Plating	0	401-1941-1-ND ✔	1.99	1.84	1.69	RTE0300G04
Gullwing, SMT, Gold Plating	0	401-1941-2-ND§ ✔		1305.00/1,250		RTE0300G04
Gullwing, Silver Plating	0	401-1962-1-ND	1.34	1.24	1.14	RTE0300G05
Gullwing, Silver Plating	0	401-1962-2-ND§		735.66/1,250		RTE0300G05
PC Mount, Thru-hole, Silver Plating	0	401-1867-ND‡ ✔	1.16	.93	.74	RTE0300N05
PC Mount, Thru-hole, Silver Plating	1	401-1868-ND‡ ✔	1.35	1.09	.86	RTE0301N05
PC Mount, Thru-hole, Silver Plating	2	401-1869-ND‡ ✔	1.35	1.09	.86	RTE0302N05
PC Mount, Thru-hole, Gold Plating	0	401-1942-5-ND† ✔	1.58	1.27	1.01	RTE0300N04
PC Mount, Thru-hole, Gold Plating	1	401-1944-5-ND† ✔	1.80	1.44	1.14	RTE0301N04
PC Mount, Thru-hole, Gold Plating	2	401-1945-5-ND† ✔	1.80	1.44	1.14	RTE0302N04
PC Mount, Thru-hole, Gold Plating	0	CKN10258-ND† ✔	1.58	1.27	1.01	RTE0310N04
PC Mount, Thru-hole, Silver Plating	1	CKN10259-ND† ✔	1.35	1.09	.86	RTE0311N05
PC Mount, Thru-hole, Silver Plating	2	CKN10260-ND† ✔	1.35	1.09	.86	RTE0312N05
NEW! 4 Position Selectors - SP4T NEW!						
Gullwing, SMT, Gold Plating	0	CKN10261CT-ND	2.46	2.28	2.09	RTE0400G04
Gullwing, SMT, Gold Plating	0	CKN10261TR-ND§		1703.25/1,250		RTE0400G04
PC Mount, Thru-hole, Gold Plating	0	CKN10262-ND†	2.02	1.62	1.28	RTE0400N04
NEW! 10 Position Selectors - BCD NEW!						
Gullwing, SMT, Gold Plating	0	401-1870-1-ND	2.56	2.37	2.17	RTE1000G14
Gullwing, SMT, Gold Plating	0	401-1870-2-ND§		1685.25/1,250		RTE1000G14
Gullwing, SMT, Gold Plating	2	CKN10263CT-ND	2.44	2.26	2.07	RTE1002G14
Gullwing, SMT, Gold Plating	2	CKN10263TR-ND§		1015.20/750		RTE1002G14
PC Mount, Thru-hole, Gold Plating	0	401-1871-5-ND†	2.10	1.68	1.33	RTE1000N14
PC Mount, Thru-hole, Gold Plating	1	401-1874-5-ND†	2.11	1.69	1.34	RTE1001N14
PC Mount, Thru-hole, Gold Plating	2	401-1876-5-ND†	2.11	1.69	1.34	RTE1002N14
PC Mount, Thru-hole, Gold Plating	1	CKN10264-ND†	2.12	1.70	1.35	RTE1011N14
PC Mount, Thru-hole, Gold Plating	0	CKN10271-ND†	2.11	1.69	1.34	RTE1010N14
Reverse PC Mt., Thru-hole, Gold Plating	0	401-1872-5-ND†	2.10	1.68	1.33	RTE1000R14
Right Angle, Thru-hole, Gold Plating	0	401-1873-5-ND†	2.12	1.70	1.35	RTE1000V14
Right Angle, Thru-hole, Gold Plating	1	401-1875-5-ND†	2.13	1.71	1.35	RTE1001V14
NEW! 16 Position Selectors - Hexadecimal NEW!						
Gullwing, SMT, Gold Plating	0	401-1877-1-ND	2.61	2.42	2.22	RTE1600G44
Gullwing, SMT, Gold Plating	0	401-1877-2-ND§		1716.75/1,250		RTE1600G44
PC Mount, Thru-hole, Gold Plating	0	401-1878-5-ND†	2.14	1.71	1.36	RTE1600N44
PC Mount, Thru-hole, Gold Plating	1	401-1881-5-ND†	2.15	1.73	1.37	RTE1601N44
PC Mount, Thru-hole, Gold Plating	2	401-1883-5-ND†	2.15	1.73	1.37	RTE1602N44
Right Angle, Thru-hole, Gold Plating	0	401-1880-5-ND†	2.16	1.73	1.37	RTE1600V44

✔ ***NEW!*** § Tape and Reel † Tube ‡ Bulk

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Optional Switch Caps for RTE Series — RoHS Compliant					
Red, Open Window Style for Button Actuator Switch Only	401-1040-ND	.30	.24	.19	BTNRTE40
Green, Open Window Style for Button Actuator Switch Only	401-1041-ND	.38	.31	.24	BTNRTE50
Black, Open Window Style for Button Actuator Switch Only	401-1042-ND	.30	.24	.19	BTNRTE90

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multimec® Basic Switch Modules

mec specializes in the production of PCB-mounted pushbutton switches. mec products are designed to be used in a wide variety of applications. Through the use of a modular approach to switch assembly, the user is provided with a unique flexibility in his choice of options. multimec switches are known for their crisp, audible, tactile feel, although a "quiet" model is available for sensitive applications, such as audio and conference equipment. The multi-colored keycaps, bezels and LEDs snap together to produce almost unlimited switch configurations. Customized keycaps and bezels can be manufactured for special applications. **Electrical Specifications:** • Contact Resistance: <30mΩ • Insulation Resistance: >10MΩ • Recommended Load: 0.5-50mA 24VDC **Mechanical Specifications:** • Standard Actuation Force (Switch): 3.0N typical • Key Travel (Switch): 1mm • Life Time (Switch): 10,000,000 cycles **Temperature Range:** • Low Temperature: -40°C ~ 115°C • High Temperature: -40°C ~ 160°C • Sealing IEC 529: IP-67

Fig. 1
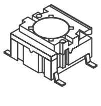
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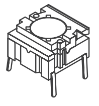
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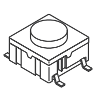
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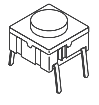
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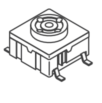
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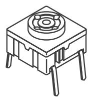
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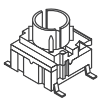
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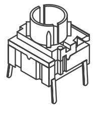
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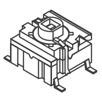
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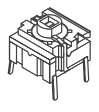
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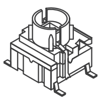
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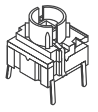

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	mec Part No.
1	SMD High Temperature	679-2207-ND	2.59	2.37	2.14	3ASH9
2	Through-Hole Low Temperature	679-2208-ND	2.19	2.00	1.81	3ATL6
	Through-Hole Low Temperature, Green LED	679-2209-ND	5.38	4.91	4.44	3ATL620
	Through-Hole Low Temperature, Yellow LED	679-2210-ND	5.38	4.91	4.44	3ATL640
	Through-Hole Low Temperature, Red LED	679-2211-ND	5.38	4.91	4.44	3ATL680
3	SMD High Temperature	679-2212-ND	2.57	2.35	2.12	3CSH9
4	Through-Hole Low Temperature	679-2213-ND	2.33	2.13	1.93	3CTL6
5	SMD High Temperature	679-2214-ND	2.52	2.31	2.08	3ESH9
	SMD High Temperature, 8mm	679-2215-ND	2.77	2.53	2.29	3ESH9-08.0
	SMD High Temperature, 9.5mm	679-2216-ND	2.77	2.53	2.29	3ESH9-09.5
	SMD High Temperature, 10.4mm	679-2217-ND	2.77	2.53	2.29	3ESH9-10.4
	SMD High Temperature, 12mm	679-2218-ND	2.77	2.53	2.29	3ESH9-12.0
	SMD High Temperature, 15mm	679-2219-ND	2.77	2.53	2.29	3ESH9-15.0
6	Through-Hole Low Temperature	679-2220-ND	2.35	2.15	1.94	3ETL9
	Through-Hole Low Temperature, 8mm	679-2221-ND	2.57	2.35	2.12	3ETL9-08.0
	Through-Hole Low Temperature, 9.5mm	679-2222-ND	2.57	2.35	2.12	3ETL9-09.5
	Through-Hole Low Temperature, 10.4mm	679-2223-ND	2.57	2.35	2.12	3ETL9-10.4
	Through-Hole Low Temperature, 12mm	679-2224-ND	2.57	2.35	2.12	3ETL9-12.0
	Through-Hole Low Temperature, 15mm	679-2225-ND	2.57	2.35	2.12	3ETL9-15.0
7	SMD High Temperature	679-2226-ND	2.59	2.37	2.14	3FSH9
8	Through-Hole Low Temperature	679-2227-ND	2.42	2.21	2.00	3FTL6
	Through-Hole Low Temperature, Blue LED	679-2228-ND	8.77	8.00	7.23	3FTL600
	Through-Hole Low Temperature, Green LED	679-2229-ND	4.53	4.14	3.74	3FTL620
	Through-Hole Low Temperature, Yellow LED	679-2230-ND	4.53	4.14	3.74	3FTL640
	Through-Hole Low Temperature, Yellow LED	679-2231-ND	6.23	5.69	5.14	3FTL645
	Through-Hole Low Temperature, Red LED	679-2232-ND	4.53	4.14	3.74	3FTL680
	Through-Hole Low Temperature, Red/Green LED	679-2233-ND	5.61	5.12	4.62	3FTL68020
	Through-Hole Low Temperature, Right Angle	679-2234-ND	3.12	2.85	2.57	3FTL6RAS
9	SMD High Temperature, Blue LED	679-2235-ND	11.97	10.92	9.86	4ASH901
	SMD High Temperature, Green LED	679-2236-ND	6.09	5.55	5.02	4ASH922
	SMD High Temperature, Yellow LED	679-2237-ND	6.09	5.55	5.02	4ASH942
	SMD High Temperature, Red LED	679-2238-ND	6.09	5.55	5.02	4ASH982
	SMD High Temperature, Red/Green LED	679-2239-ND	7.68	7.01	6.33	4ASH98222
10	Through-Hole High Temperature, Blue LED	679-2240-ND	11.97	10.92	9.86	4ATH901
	Through-Hole High Temperature, Green LED	679-2241-ND	6.09	5.55	5.02	4ATH922
	Through-Hole High Temperature, Yellow LED	679-2242-ND	6.09	5.55	5.02	4ATH942
	Through-Hole High Temperature, White LED	679-2299-ND✔	13.16	12.00	10.84	4ATH961
	Through-Hole High Temperature, Red LED	679-2243-ND	6.09	5.55	5.02	4ATH982
	Through-Hole High Temperature, Red/Green LED	679-2244-ND	7.68	7.01	6.33	4ATH98222
11	SMD High Temperature, Blue LED	679-2245-ND	8.64	7.88	7.12	4FSH901
	SMD High Temperature, Green LED	679-2246-ND	5.12	4.67	4.22	4FSH922
	SMD High Temperature, Yellow LED	679-2247-ND	5.12	4.67	4.22	4FSH942
	SMD High Temperature, White LED	679-2248-ND	8.64	7.88	7.12	4FSH961
	SMD High Temperature, Red LED	679-2249-ND	5.12	4.67	4.22	4FSH982
	SMD High Temperature, Red/Green LED	679-2250-ND	6.34	5.79	5.23	4FSH98222
12	Through-Hole High Temperature, Blue LED	679-2251-ND	8.64	7.88	7.12	4FTH901
	Through-Hole High Temperature, Green LED	679-2252-ND	5.12	4.67	4.22	4FTH922
	Through-Hole High Temperature, Yellow LED	679-2253-ND	5.12	4.67	4.22	4FTH942
	Through-Hole High Temperature, White LED	679-2254-ND	8.64	7.88	7.12	4FTH961
	Through-Hole High Temperature, Red LED	679-2255-ND	5.12	4.67	4.22	4FTH982
	Through-Hole High Temperature, Red/Green LED	679-2256-ND	6.34	5.79	5.23	4FTH98222

✔ ***NEW!***

Multimec®
Bezels

Fig. 1
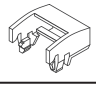
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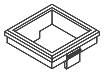

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	mec Part No.
1	Blue Bezel	679-2189-ND	.51	.47	.43	2C00
	Grey Bezel	679-2190-ND	.51	.47	.43	2C03
	Yellow Bezel	679-2191-ND	.51	.47	.43	2C04
	White Bezel	679-2192-ND	.51	.47	.43	2C06
	Red Bezel	679-2193-ND	.51	.47	.43	2C08
	Black Bezel	679-2194-ND	.51	.47	.43	2C09
	Ultra Blue Bezel	679-2195-ND	.51	.47	.43	2C30
	Melon Bezel	679-2196-ND	.51	.47	.43	2C34
	Dusty Blue Bezel	679-2197-ND	.51	.47	.43	2C40
2	Grey Bezel	679-2198-ND	.51	.47	.43	2K03
	Red Bezel	679-2199-ND	.51	.47	.43	2K08
	Black Bezel	679-2200-ND	.51	.47	.43	2K09

Multimec® Caps

Fig. 1
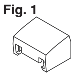
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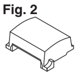
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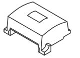
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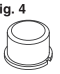
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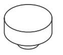
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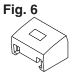
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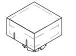
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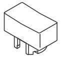
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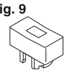
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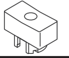
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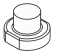
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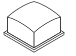
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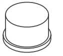
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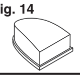
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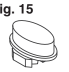
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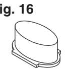
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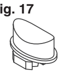
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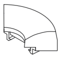
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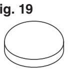

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	mec Part No.
1	Blue Cap	679-2026-ND	.46	.42	.38	1A00
	Green Cap	679-2027-ND	.46	.42	.38	1A02
	Grey Cap	679-2028-ND	.46	.42	.38	1A03
	Yellow Cap	679-2029-ND	.46	.42	.38	1A04
	White Cap	679-2030-ND	.46	.42	.38	1A06
	Red Cap	679-2031-ND	.46	.42	.38	1A08
	Black Cap	679-2032-ND	.46	.42	.38	1A09
	Ultra Blue Cap	679-2033-ND	.46	.42	.38	1A30
	Tele Grey Cap	679-2034-ND	.46	.42	.38	1A33
	Melon Cap	679-2035-ND	.46	.42	.38	1A34
	Dusty Blue Cap	679-2036-ND	.46	.42	.38	1A40
	Metal Dark Blue Cap	679-2037-ND	.46	.42	.38	1A50
	Metal Light Grey Cap	679-2038-ND	.46	.42	.38	1A53
	Metal Dark Grey Cap	679-2039-ND	.46	.42	.38	1A57
2	Blue Cap	679-2040-ND	.46	.42	.38	1B00
	Green Cap	679-2041-ND	.46	.42	.38	1B02
	Grey Cap	679-2042-ND	.46	.42	.38	1B03
	Yellow Cap	679-2043-ND	.46	.42	.38	1B04
	White Cap	679-2044-ND	.46	.42	.38	1B06
	Red Cap	679-2045-ND	.46	.42	.38	1B08
	Black Cap	679-2046-ND	.46	.42	.38	1B09
	Ultra Blue Cap	679-2047-ND	.46	.42	.38	1B30
	Melon Cap	679-2048-ND	.46	.42	.38	1B34
	Dusty Blue Cap	679-2049-ND	.46	.42	.38	1B40
3	Blue Cap, Transparent Lens	679-2050-ND	1.06	.98	.88	1C001
	Green Cap, Green Lens	679-2051-ND	1.06	.98	.88	1C022
	Grey Cap, Green Lens	679-2052-ND	1.06	.98	.88	1C032
	Yellow Cap, Yellow Lens	679-2053-ND	1.06	.98	.88	1C044
	White Cap, Red Lens	679-2054-ND	1.06	.98	.88	1C068
	Red Cap, Red Lens	679-2055-ND	1.06	.98	.88	1C088
	Black Cap, Red Lens	679-2056-ND	1.06	.98	.88	1C098
4	Blue Cap	679-2057-ND	.46	.42	.38	1D00
	Green Cap	679-2058-ND	.46	.42	.38	1D02
	Grey Cap	679-2059-ND	.46	.42	.38	1D03
	Yellow Cap	679-2060-ND	.46	.42	.38	1D04
	White Cap	679-2061-ND	.46	.42	.38	1D06
	Red Cap	679-2062-ND	.46	.42	.38	1D08
	Black Cap	679-2063-ND	.46	.42	.38	1D09
	Transparent Cap	679-2064-ND	.46	.42	.38	1D11
	Frosted White Cap	679-2065-ND	.46	.42	.38	1D16
	Ultra Blue Cap	679-2066-ND	.46	.42	.38	1D30
	Mint Green Cap	679-2067-ND	.46	.42	.38	1D32
	Tele Grey Cap	679-2068-ND	.46	.42	.38	1D33
	Melon Cap	679-2069-ND	.46	.42	.38	1D34
	Noble Red Cap	679-2070-ND	.46	.42	.38	1D38
	Dusty Blue Cap	679-2071-ND	.46	.42	.38	1D40
	Aqua Blue Cap	679-2072-ND	.46	.42	.38	1D42
	Metal Dark Blue Cap	679-2073-ND	.46	.42	.38	1D50
	Metal Light Grey Cap	679-2074-ND	.46	.42	.38	1D53
	Metal Dark Grey Cap	679-2075-ND	.46	.42	.38	1D57
	Metal Bordeaux Cap	679-2076-ND	.46	.42	.38	1D58
	Grey Cap, Frosted White Lens	679-2077-ND	1.06	.98	.88	1E036
	Black Cap, Transparent Lens	679-2078-ND	1.06	.98	.88	1E091
	Black Cap, Green Lens	679-2079-ND	1.06	.98	.88	1E092
	Black Cap, Yellow Lens	679-2080-ND	1.06	.98	.88	1E094
	Black Cap, Frosted White Lens	679-2081-ND	1.06	.98	.88	1E096
	Black Cap, Red Lens	679-2082-ND	1.06	.98	.88	1E098
	Black Cap, Transparent Lens	679-2083-ND	1.06	.98	.88	1F091
	Black Cap, Green Lens	679-2084-ND	1.06	.98	.88	1F092
	Black Cap, Yellow Lens	679-2085-ND	1.06	.98	.88	1F094
	Black Cap, Frosted White Lens	679-2086-ND	1.06	.98	.88	1F096
	Black Cap, Red Lens	679-2087-ND	1.06	.98	.88	1F098
5	Black Cap, 11mm Diameter	679-2088-ND	.49	.45	.41	1GA09
	Black Cap, 15mm Diameter	679-2089-ND	.49	.45	.41	1GC09
6	Blue Cap, Frosted White Lens	679-2090-ND	1.06	.98	.88	1H006
	Grey Cap, Green Lens	679-2091-ND	1.06	.98	.88	1H032
	Grey Cap, Frosted White Lens	679-2092-ND	1.06	.98	.88	1H036
	Grey Cap, Red Lens	679-2093-ND	1.06	.98	.88	1H038
	Red Cap, Frosted White Lens	679-2094-ND	1.06	.98	.88	1H086
	Red Cap, Red Lens	679-2095-ND	1.06	.98	.88	1H088
	Black Cap, Transparent Lens	679-2096-ND	1.06	.98	.88	1H091
	Black Cap, Green Lens	679-2097-ND	1.06	.98	.88	1H092
	Black Cap, Yellow Lens	679-2098-ND	1.06	.98	.88	1H094
	Black Cap, Frosted White Lens	679-2099-ND	1.06	.98	.88	1H096
	Black Cap, Red Lens	679-2100-ND	1.06	.98	.88	1H098
7	Frosted White Cap	679-2101-ND	3.07	2.80	2.53	1K1116
	Frosted White Cap	679-2102-ND	3.07	2.80	2.53	1KB1116
	Frosted White Cap	679-2103-ND	3.07	2.80	2.53	1KC1116
8	Blue Cap	679-2104-ND	.50	.46	.41	1P00
	Grey Cap	679-2105-ND	.50	.46	.41	1P03
	Red Cap	679-2106-ND	.50	.46	.41	1P08
	Black Cap	679-2107-ND	.50	.46	.41	1P09
9	Grey Cap, Frosted White Lens	679-2108-ND	1.18	1.08	.98	1Q036
	Black Cap, Frosted White Lens	679-2109-ND	1.18	1.08	.98	1Q096
10	Grey Cap, Frosted White Lens	679-2110-ND	1.18	1.08	.98	1R036
	Black Cap, Frosted White Lens	679-2111-ND	1.18	1.08	.98	1R096
11	Black Cap, 16.0mm	679-2112-ND	.49	.45	.41	1S09-16.0
	Black Cap, 19.0mm	679-2113-ND	.49	.45	.41	1S09-19.0
	Black Cap, 22.5mm	679-2114-ND	.49	.45	.41	1S09-22.5
	Transparent Cap, 16.0mm	679-2115-ND	.49	.45	.41	1S11-16.0
	Transparent Cap, 19.0mm	679-2116-ND	.49	.45	.41	1S11-19.0

(Continued)

mec switches Multimec® Caps *(Cont.)*

Fig.	Description	Digi-Key Part No.	Price Each			mec Part No.
			1	25	100	
11	Transparent Cap, 22.5mm	679-2117-ND	.49	.45	.41	1S11-22.5
12	Grey Cap	679-2118-ND	.59	.54	.49	1T03
	Red Cap	679-2119-ND	.59	.54	.49	1T08
	Black Cap	679-2120-ND	.59	.54	.49	1T09
	Frosted White Cap	679-2121-ND	.59	.54	.49	1T16
13	Grey Cap	679-2122-ND	.59	.54	.49	1U03
	Red Cap	679-2123-ND	.59	.54	.49	1U08
	Black Cap	679-2124-ND	.59	.54	.49	1U09
	Frosted White Cap	679-2125-ND	.59	.54	.49	1U16
14	Grey Cap	679-2126-ND	.59	.54	.49	1V03
	Red Cap	679-2127-ND	.59	.54	.49	1V08
	Black Cap	679-2128-ND	.59	.54	.49	1V09
	Frosted White Cap	679-2129-ND	.59	.54	.49	1V16
15	Oval Blue Cap	679-2130-ND	.59	.54	.49	1WA00
	Oval Grey Cap	679-2131-ND	.59	.54	.49	1WA03
	Oval Red Cap	679-2132-ND	.59	.54	.49	1WA08
	Oval Black Cap	679-2133-ND	.59	.54	.49	1WA09
	Oval Frosted White Cap	679-2134-ND	.59	.54	.49	1WA16
	Oval Ultra Blue Cap	679-2135-ND	.59	.54	.49	1WA30
	Oval Pigeon Blue Cap	679-2136-ND	.59	.54	.49	1WA40
	Oval Aqua Blue Cap	679-2137-ND	.59	.54	.49	1WA42
	Oval Metal Light Grey Cap	679-2138-ND	.59	.54	.49	1WA53
	Oval Metal Dark Grey Cap	679-2139-ND	.59	.54	.49	1WA57
16	Oval Blue Cap	679-2140-ND	.59	.54	.49	1WD00
	Oval Grey Cap	679-2141-ND	.59	.54	.49	1WD03
	Oval Red Cap	679-2142-ND	.59	.54	.49	1WD08
	Oval Black Cap	679-2143-ND	.59	.54	.49	1WD09
	Oval Frosted White Cap	679-2144-ND	.59	.54	.49	1WD16
	Oval Ultra Blue Cap	679-2145-ND	.59	.54	.49	1WD30
	Oval Pigeon Blue Cap	679-2146-ND	.59	.54	.49	1WD40
	Oval Aqua Blue Cap	679-2147-ND	.59	.54	.49	1WD42
	Oval Metal Light Grey Cap	679-2148-ND	.59	.54	.49	1WD53
	Oval Metal Dark Grey Cap	679-2149-ND	.59	.54	.49	1WD57
17	Oval Blue Cap	679-2150-ND	.59	.54	.49	1WP00
	Oval Grey Cap	679-2151-ND	.59	.54	.49	1WP03
	Oval Red Cap	679-2152-ND	.59	.54	.49	1WP08
	Oval Black Cap	679-2153-ND	.59	.54	.49	1WP09
	Oval Frosted White Cap	679-2154-ND	.59	.54	.49	1WP16
	Oval Ultra Blue Cap	679-2155-ND	.59	.54	.49	1WP30
	Oval Pigeon Blue Cap	679-2156-ND	.59	.54	.49	1WP40
	Oval Aqua Blue Cap	679-2157-ND	.59	.54	.49	1WP42
	Oval Metal Light Grey Cap	679-2158-ND	.59	.54	.49	1WP53
	Oval Metal Dark Grey Cap	679-2159-ND	.59	.54	.49	1WP57
18	Grey Cap	679-2160-ND	.67	.62	.56	1ZB03
	White Cap	679-2161-ND	.67	.62	.56	1ZB06
	Black Cap	679-2162-ND	.67	.62	.56	1ZB09
	Black Cap	679-2303-ND ***NEW!***	2.52	2.30	2.08	1ZB09XD136
	Frosted White Cap	679-2301-ND ***NEW!***	8.02	7.32	6.61	1ZB16LM136
	Ultra Blue Cap	679-2163-ND	.67	.62	.56	1ZB30
	Dusty Blue Cap	679-2164-ND	.67	.62	.56	1ZB40
	Aqua Blue Cap	679-2165-ND	.67	.62	.56	1ZB42
	Metal Dark Blue Cap	679-2166-ND	.67	.62	.56	1ZB50
	Metal Light Grey Cap	679-2167-ND	.67	.62	.56	1ZB53
	Metal Dark Grey Cap	679-2168-ND	.67	.62	.56	1ZB57
	Metal Bordeaux Cap	679-2169-ND	.67	.62	.56	1ZB58
19	Grey Cap	679-2170-ND	.67	.62	.56	1ZC03
	White Cap	679-2171-ND	.67	.62	.56	1ZC06
	Black Cap	679-2172-ND	.67	.62	.56	1ZC09
	Black Cap	679-2302-ND ***NEW!***	2.52	2.30	2.08	1ZC09118
	Frosted White Cap	679-2300-ND ***NEW!***	8.02	7.32	6.61	1ZC16LM118
	Ultra Blue Cap	679-2173-ND	.67	.62	.56	1ZC30
	Dusty Blue Cap	679-2174-ND	.67	.62	.56	1ZC40
	Aqua Blue Cap	679-2175-ND	.67	.62	.56	1ZC42
	Metal Dark Blue Cap	679-2176-ND	.67	.62	.56	1ZC50
	Metal Light Grey Cap	679-2177-ND	.67	.62	.56	1ZC53
	Metal Dark Grey Cap	679-2178-ND	.67	.62	.56	1ZC57
	Metal Bordeaux Cap	679-2179-ND	.67	.62	.56	1ZC58

Multimec® Extenders

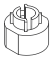

Description	Digi-Key Part No.	Price Each			mec Part No.
		1	25	100	
5mm Extender	679-2201-ND	.52	.48	.44	2S09-05.0
6mm Extender	679-2202-ND	.52	.48	.44	2S09-06.0
7mm Extender	679-2203-ND	.52	.48	.44	2S09-07.0
8mm Extender	679-2204-ND	.52	.48	.44	2S09-08.0
9mm Extender	679-2205-ND	.52	.48	.44	2S09-09.0
10mm Extender	679-2206-ND	.52	.48	.44	2S09-10.0
Extender Used when Mounting Multimec Keycaps on Unimec Switches	679-1960-ND	.35	.32	.29	16250

Unimec™ Basic Switch Modules

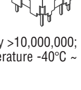

The Unimec switch range is one of the smallest two pole switches available today. The contacts are capable of producing eight functions depending on the PCB layout. The Unimec switch is available in momentary and alternate action models with standard silver contacts or optional gold contacts for low level switching. All Unimec switches are available in low or high temperature models. **Electrical Specifications:** • Contact Resistance: 100mΩ • Insulation Resistance: >10MΩ • Recommended Load: 250mA / 120V / 9W AC / 6W DC **Mechanical Specifications:** • Standard Actuation Force (Switch): Typical 2.5N • Key Travel (Switch): 1.8mm • Life Time: Momentary 1,500,000 cycles; Alternate 500,000 cycles (Low Temperature); Momentary >10,000,000; Alternate 5,000,000 cycles (High Temperature) **Temperature Range:** Working Temperature: • Low Temperature -40°C ~ 75°C; • High Temperature -40°C ~ 160°C • Environmental Endurance IEC 68-2-3: Sealing IEC 529: IP-54

Description	Digi-Key Part No.	Price Each			mec Part No.
		1	25	100	
Momentary High Temperature Silver	679-1957-ND	5.04	4.60	4.15	15401
Momentary High Temperature Gold	679-1958-ND	7.82	7.13	6.44	15402
Alternate High Temperature Silver	679-1961-ND	6.12	5.58	5.04	15451
Alternate High Temperature Gold	679-1962-ND	8.53	7.78	7.03	15452
Momentary Low Temperature Quiet Silver	679-1963-ND	5.18	4.73	4.27	15500
Momentary Low Temperature Silver	679-1959-ND	4.71	4.30	3.88	15501
Alternate Low Temperature Silver	679-1964-ND	5.56	5.08	4.59	15551

Unimec™ Caps

Fig. 1

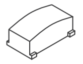

Fig. 2

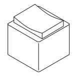

Fig. 3

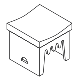

Fig.	Description	Digi-Key Part No.	Price Each			mec Part No.
			1	25	100	
1	Blue Cap	679-1965-ND	.58	.54	.49	1630000
	Brown Cap	679-1966-ND	.58	.54	.49	1630001
	Green Cap	679-1967-ND	.58	.54	.49	1630002
	Grey Cap	679-1968-ND	.58	.54	.49	1630003
	Yellow Cap	679-1969-ND	.58	.54	.49	1630004
	Golden Cap	679-1970-ND	.58	.54	.49	1630005
	White Cap	679-1971-ND	.58	.54	.49	1630006
	Orange Cap	679-1972-ND	.58	.54	.49	1630007
	Red Cap	679-1973-ND	.58	.54	.49	1630008
	Black Cap	679-1974-ND	.58	.54	.49	1630009
	Ultra Blue Cap	679-1975-ND	.58	.54	.49	1630030
	Mint Green Cap	679-1976-ND	.58	.54	.49	1630032
	Tele Grey Cap	679-1977-ND	.58	.54	.49	1630033
	Melon Cap	679-1978-ND	.58	.54	.49	1630034
	Noble Red Cap	679-1979-ND	.58	.54	.49	1630038
	Dusty Blue Cap	679-1980-ND	.58	.54	.49	1630040
	Aqua Blue Cap	679-1981-ND	.58	.54	.49	1630042
	Metal Dark Blue Cap	679-1982-ND	.58	.54	.49	1630050
	Metal Light Grey Cap	679-1983-ND	.58	.54	.49	1630053
	Metal Dark Grey Cap	679-1984-ND	.58	.54	.49	1630057
	Metal Bordeaux Cap	679-1985-ND	.58	.54	.49	1630058
2	Blue Cap	679-2013-ND	.58	.54	.49	1670000
	Green Cap	679-2014-ND	.58	.54	.49	1670002
	Grey Cap	679-2015-ND	.58	.54	.49	1670003
	Yellow Cap	679-2016-ND	.58	.54	.49	1670004
	Red Cap	679-2017-ND	.58	.54	.49	1670008
	Black Cap	679-2018-ND	.58	.54	.49	1670009
3	Grey Cap	679-2019-ND	.58	.54	.49	1680003
	Red Cap	679-2020-ND	.58	.54	.49	1680008
	Black Cap	679-2021-ND	.58	.54	.49	1680009

Unimec™ Bezels

Fig. 1

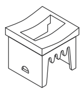

Fig. 2

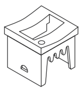

Fig. 3

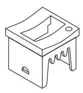

Fig. 4

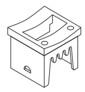

Fig.	Description	Digi-Key Part No.	Price Each			mec Part No.
			1	25	100	
1	Blue Bezel	679-1986-ND	.58	.53	.48	1631000
	Brown Bezel	679-1987-ND	.58	.53	.48	1631001
	Green Bezel	679-1988-ND	.58	.53	.48	1631002
	Grey Bezel	679-1989-ND	.58	.53	.48	1631003
	Yellow Bezel	679-1990-ND	.58	.53	.48	1631004
	Golden Bezel	679-1991-ND	.58	.53	.48	1631005
	White Bezel	679-1992-ND	.58	.53	.48	1631006
	Orange Bezel	679-1993-ND	.58	.53	.48	1631007
	Red Bezel	679-1994-ND	.58	.53	.48	1631008
	Black Bezel	679-1995-ND	.58	.53	.48	1631009
	Ultra Blue Bezel	679-1996-ND	.58	.53	.48	1631030
	Mint Green Bezel	679-1997-ND	.58	.53	.48	1631032
	Tele Grey Bezel	679-1998-ND	.58	.53	.48	1631033
	Melon Bezel	679-1999-ND	.58	.53	.48	1631034
	Noble Red Bezel	679-2000-ND	.58	.53	.48	1631038
	Dusty Blue Bezel	679-2001-ND	.58	.53	.48	1631040
	Aqua Blue Bezel	679-2002-ND	.58	.53	.48	1631042
	Metal Dark Blue Bezel	679-2003-ND	.58	.53	.48	1631050
	Metal Light Grey Bezel	679-2004-ND	.58	.53	.48	1631053
	Metal Dark Grey Bezel	679-2005-ND	.58	.53	.48	1631057
	Metal Bordeaux Bezel	679-2006-ND	.58	.53	.48	1631058
2	Grey Bezel with Right LED	679-2007-ND	.58	.53	.48	1631103
	Black Bezel with Right LED	679-2008-ND	.58	.53	.48	1631109
3	Grey Bezel with Left LED	679-2009-ND	.58	.53	.48	1631203
	Black Bezel with Left LED	679-2010-ND	.58	.53	.48	1631209
4	Grey Bezel with 2 LEDs	679-2011-ND	.58	.53	.48	1631403
	Black Bezel with 2 LEDs	679-2012-ND	.58	.53	.48	1631409

Unimec™ LEDs

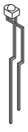

Specifications	Green	Red
Current Forward (mA)	30	30
Voltage Forward (Typical V)	2.0	2.0
Wave Length (nm)	560	660
Luminous Intensity (Typical mcd)	2	1.6

Description	Digi-Key Part No.	Price Each			mec Part No.
		1	25	100	
Green for Left Bezel	679-2022-ND	2.27	2.08	1.88	1692002
Red for Left Bezel	679-2023-ND	2.27	2.08	1.88	1692008
Green for Right Bezel	679-2024-ND	2.27	2.08	1.88	1692102
Red for Right Bezel	679-2025-ND	2.27	2.08	1.88	1692108

Tyco Electronics
Authorized Distributor

Pushbutton Switches

Tyco Electronics Pushbutton Switches feature high temperature plastics. They have silver clad and gold plated contacts to satisfy the requirements of logic level and power switching applications. A variety of caps, guards and boot seals are available.

Dimensions in mm

Fig.	Circuit	Action	Contact Rating	Features	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1	SPST	Mom - NO	0.4VA	Black Square Actuator	450-1367-ND	6.39	5.15	4.95	TP11CGPC004
	SPST	Mom - NO	0.4VA	Red Square Actuator	450-1368-ND	7.78	6.28	6.03	TP11CGPC204
	SPST	Mom - NO	0.4VA	Black Round Actuator	450-1467-ND	5.77	4.65	4.47	TPA11CGPC004
	SPST	Mom - NO	0.4VA	Red Round Actuator	450-1371-ND	7.44	6.00	5.76	TPA11CGPC204
2	SPST	Mom - NO	0.4VA	Black Square Actuator	450-1369-ND	6.23	5.03	4.83	TP11CGRA004
	SPST	Mom - NO	0.4VA	Red Square Actuator	450-1370-ND	7.35	6.33	5.81	TP11CGRA204
	SPST	Mom - NO	0.4VA	Black Round Actuator	450-1372-ND	7.75	6.67	6.12	TPA11CGRA004
	SPST	Mom - NO	0.4VA	Red Round Actuator	450-1373-ND	6.85	5.53	5.31	TPA11CGRA204
3	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1374-ND	7.29	5.88	5.64	TPB11CGPC004
	SPST	Mom - NO	0.4VA	10-48 Bushing - Black Actuator	450-1377-ND	13.11	11.27	10.35	TPC11CGPC004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Red Actuator	450-1379-ND	9.75	8.38	7.70	TPD11CGPC204
4	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1346-ND	9.98	8.58	7.88	TPB11FGVRA004
5	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1376-ND	7.52	6.47	5.94	TPB11CGRA004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Red Actuator	450-1375-ND	9.92	8.53	7.83	TPB11CGRA204
	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1345-ND	9.35	8.04	7.38	TPB11FGRA004
	SPST	Mom - NO	0.4VA	10-48 Bushing - Black Actuator	450-1378-ND	14.45	12.43	11.41	TPC11CGRA004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1380-ND	9.38	8.07	7.41	TPD11CGRA004
	SPST	Mom - NO	0.4VA	1/4 x 40 Bushing - Black Actuator	450-1381-ND	13.25	11.40	10.47	TPF11CGRA004
6	SPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1087-ND ***NEW!***	13.11	11.27	10.35	MPA106D
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1089-ND	18.55	15.95	14.65	MPA106F
	DPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1083-ND	14.08	12.11	11.12	MPA206N
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1088-ND	15.39	13.23	12.15	MPA206R
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1084-ND	15.70	13.50	12.40	MPA206RPC
	3PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1077-ND ***NEW!***	21.09	18.13	16.65	MPA306F
	4PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1079-ND ***NEW!***	29.53	25.39	23.31	MPA406R
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1093-ND	14.48	12.45	11.43	MPE106F
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1094-ND	15.70	13.50	12.40	MPE206R
7	SPDT	Alt/Act	6A	THD Bushing	450-1126-ND	11.57	9.95	9.14	MPG106D
	SPDT	Mom	6A	THD Bushing	450-1086-ND	13.00	11.18	10.26	MPG106F
	DPDT	Alt/Act	6A	THD Bushing	450-1073-ND	15.13	13.01	11.95	MPG206N
	DPDT	Mom	6A	THD Bushing	450-1085-ND	18.44	15.86	14.56	MPG206R
	DPDT	Mom	6A	THD Bushing	450-1082-ND	20.29	17.45	16.02	MPG206RPC
	3PDT	Alt/Act	6A	THD Bushing	450-1070-ND ***NEW!***	22.09	18.99	17.44	MPG306D
	3PDT	Mom	6A	THD Bushing	450-1076-ND	22.23	19.11	17.55	MPG306F
	4PDT	Mom	6A	THD Bushing	450-1078-ND ***NEW!***	28.61	24.60	22.59	MPG406R
8	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1097-ND	7.92	6.82	6.26	MSPF101B
	SPST	Mom - NO	0.5A	THD Bushing with Red Cap	450-1098-ND	7.72	6.23	5.98	MSPF101C
9	SPST	Mom - NC	1.0VA	THD Bushing with Black Cap	450-1545-ND	31.83	27.37	25.14	MSPM101B104
	SPST	Mom - NO	1.0VA	THD Bushing with Red Cap	450-1432-ND	32.18	27.67	25.41	MSPM101C104
10	SPST	Mom - NC	3A	THD Bushing - Black Actuator	450-1428-ND	6.14	4.95	4.76	MSP103B04
	SPST	Mom - NO	3A	THD Bushing - Black Actuator	450-1429-ND	6.48	5.23	5.02	MSP103C004
	SPST	Mom - NO	3A	THD Bushing - Red Actuator	450-1430-ND	7.29	5.88	5.64	MSP103C204
11	SPST	Mom - NC	0.5A	THD Bushing - Black Actuator	450-1099-ND	2.91	2.35	2.26	MSPS103B
	SPST	Mom - NO	0.5A	THD Bushing - Red Actuator	450-1110-ND	3.41	2.75	2.64	MSPS103C
	SPST	Mom - NO	0.5A	THD Bushing - Black Actuator	450-1664-ND	2.73	2.20	2.12	MSPS103C0

Fig. 1

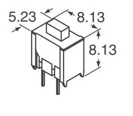

Fig. 2

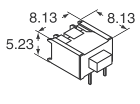

Fig. 3

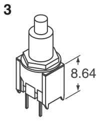

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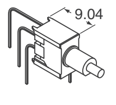

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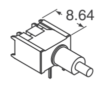

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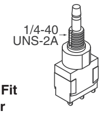

Snap - Fit Plunger

Fig. 7

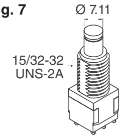

Fig. 8

15/32 UNS-2A

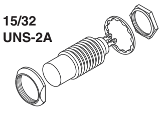

Fig. 9

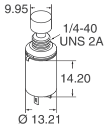

Fig. 10

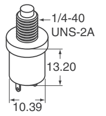

Fig. 11

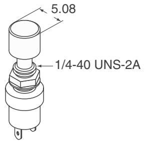

Pushbutton Accessories

Switch Caps: Gloss finish **Bushing Guards:** G12C are chromed brass; remaining are aluminum. **Waterproof Boot Seals:** Fabricated of Neoprene rubber for an environmental seal; Hex nuts are molded in the Neoprene.

Fig.	Description	Color / Type	Use With	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1	Switch Cap, .354" dia, for Snapfit Plunger (Fig. 8) Above	Black	MPG	450-1754-ND ***NEW!***	.59	.48	.46	C90
		Red	MPG	450-1755-ND ***NEW!***	.59	.48	.46	C92
	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1490-ND	.74	.60	.58	C22004
		Red	MPS/MSPM/MPE/MPA6	450-1492-ND	.69	.56	.54	C22204
		Green	MPS/MSPM/MPE/MPA6	450-1493-ND	1.19	.96	.93	C22504
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1494-ND	1.49	1.20	1.16	C23004
		Red	MPS/MSPM/MPE/MPA6	450-1495-ND	1.49	1.20	1.16	C23204
2	Bushing Guard 1/4 x 40 THD Smooth Finish	Black/Aluminum	1/4 x 40 THD	450-1063-ND	2.43	1.96	1.89	G12B
	Bushing Guard 1/4 x 40 THD Smooth Finish	Brass	1/4 x 40 THD	450-1064-ND	3.38	2.73	2.62	G12C
	Bushing Guard 1/4 x 40 THD Knurled Finish	Aluminum	1/4 x 40 THD	450-1066-ND	2.16	1.75	1.68	G12KA
	Bushing Guard 1/4 x 40 THD Knurled Finish	Black/Aluminum	1/4 x 40 THD	450-1062-ND	4.15	3.35	3.22	G13KB
	Bushing Guard 1/4 x 40 THD Knurled Finish	Clear/Aluminum	1/4 x 40 THD	450-1150-ND	2.73	2.20	2.12	G13KA
	Bushing Guard 15/32 THD Smooth Finish	Aluminum	MSPF Series	450-1060-ND	5.24	4.23	4.06	G15
3	Waterproof Boot 10-48 THD, H = .276"	Black	TP Series	450-1549-ND	6.79	5.48	5.26	BP1048004
	Waterproof Boot 1/4 x 40 THD, H = .460"	Gray	MSPM/MPA3/MPS/TP	450-1541-ND	6.73	5.43	5.21	BP1440804
	Waterproof Boot 1/4 x 40 THD, H = .300"	Black	MSPMBS/MSPMCS and MSP3/MPA3/TP	450-1551-ND	6.73	5.43	5.21	BPA1440004
	Waterproof Boot 1/4 x 40 THD, H = .460"	Black	MSPM/MPS3/MPA3/TP	450-1556-ND	7.41	5.98	5.74	BP201004
	Waterproof Boot 15/32-32 THD, H = .472"	Black	MSPF/MPG	450-1554-ND	5.74	4.63	4.44	BP1532004
	Waterproof Boot 15/32-32 THD, H = .472"	Red	MSPF/MPG	450-1550-ND	5.74	4.63	4.44	BP1532204
	Waterproof Boot 1/4 x 40 THD, H = .580"	Black	TT, MTA, Gemini	450-1552-ND	6.73	5.43	5.21	B1440004
	Waterproof Boot 1/4 x 40 THD, H = .580"	Gray	TT, MTA, Gemini	450-1553-ND	6.73	5.43	5.21	B1440804

Fig. 1

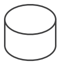

Fig. 2 Dim. in mm

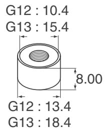

Fig. 3

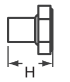

A Series Rocker Switches

Specifications: • Contacts/Terminals: Silver/tin lead • Case Material: Thermoset 94V-0 • Operating Temperature: -20°C ~ 85°C
Characteristics: • Contact Rating: Silver: 5A @ 125VAC • Contact Timing: Break-before-make • Life Expectancy: 30,000 Cycles

Dim. in mm

Fig.	Circuit	Function	Terminal	Features	Contact Rating	Digi-Key Part No.	Price Each 1	10	25	50	Tyco Electronics Part No.
1	SPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1519-ND	4.25	3.77	3.43	3.29	A101J51ZQ0004
	SPDT	Mom-Off-Mom	Solder Term	Snap-In Black Bezel	5A	450-1528-ND	5.08	4.51	4.10	3.94	A105J51ZQ0004
	DPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1532-ND	4.90	4.35	3.95	3.80	A201J51ZQ0004
	DPDT	On-Off-On	Solder Term	Snap-In Black Bezel	5A	450-1502-ND	5.74	5.09	4.63	4.44	A203J51ZQ0004
2	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1517-ND	3.69	3.28	2.98	2.86	A101J1AQ004
3	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1518-ND	3.69	3.28	2.98	2.86	A101J1AV2Q004
4	SPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1501-ND	4.25	3.77	3.43	3.29	A101J61ZQ0004
	SPDT	On-Off-On	Solder Term	Snap-In Black Bezel	5A	450-1524-ND	4.81	4.27	3.88	3.72	A103J61ZQ0004
	SPDT	Mom-Off-Mom	Solder Term	Snap-In Black Bezel	5A	450-1529-ND	5.08	4.51	4.10	3.94	A105J61ZQ0004

Fig. 1

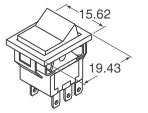

Fig. 2

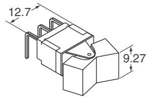

Fig. 3

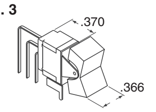

Fig. 4

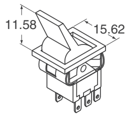

Tact Switches

Dimensions in mm

Fig. 1

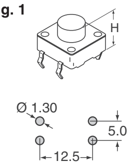

Fig. 2

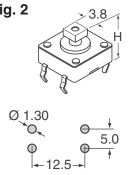

Fig. 3

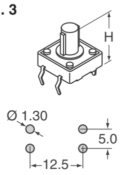

Fig. 4

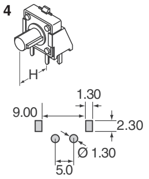

Fig. 5

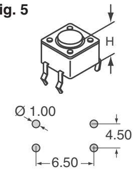

Fig. 6

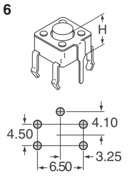

Fig. 7

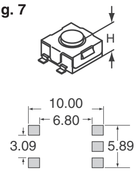

Fig. 8

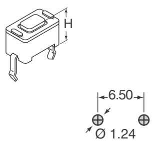

Fig. 9

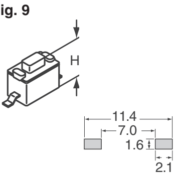

Fig. 10

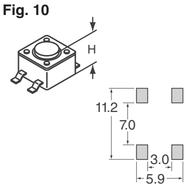

Fig. 11

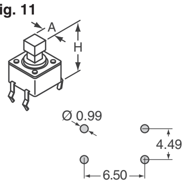

Fig. 12

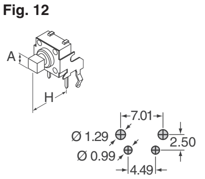

Fig. 13

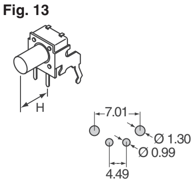

Fig.	Description	Dim. H mm	Digi-Key Part No.	Pricing 1	Pricing 10	Tyco Electronics Part No.
1	Tact Switch 12mm, SPST, Momentary, 160GF	4.3	450-1131-ND	.60	5.34	FSM100
	Tact Switch 12mm, SPST, 160GF	7.49	450-1157-ND	.69	6.15	FSM101
2	Tact Switch 12mm, SPST, SQ Actuator, 160GF	7.3	450-1158-ND	.62	5.52	FSM103
3	Tact Switch 12mm w/ Ext. Actuator, SPST, 160GF	12	450-1128-ND	.68	6.06	FSM102
4	Tact Switch 12mm, Rt. Angle w/ Post Act., SPST, 160GF	11.15	450-1127-ND	.84	7.48	FSM104
5	Tact Switch 6mm, 160GF, Black	4.3	450-1649-ND	.16	1.44	FSM2JH
	Tact Switch 6mm, 160GF, Black	5.0	450-1650-ND	.13	1.16	FSM4JH
	Tact Switch 6mm, 160GF, Black	7.0	450-1652-ND	.16	1.41	FSM6JH
	Tact Switch 6mm, 160GF, Black	9.5	450-1653-ND	.16	1.41	FSN8JH
	Tact Switch 6mm, 160GF, Black	7.3	450-1647-ND	.16	1.41	FSM10JH
	Tact Switch 6mm, 160GF, Black	13.0	450-1642-ND	.14	1.24	FSM14JH
	Tact Switch 6mm, 160GF, Black	17.0	450-1643-ND	.22	1.94	FSM16JH
	Tact Switch 6mm, 160GF, Black	8.51	450-1644-ND	.16	1.41	FSM18JH
6	Tact Switch 6mm, 160GF, Black	4.3	450-1645-ND	.17	1.49	FSM1JH
	Tact Switch 6mm, 160GF, Black	7.0	450-1651-ND	.19	1.65	FSM5JH
	Tact Switch 6mm, 160GF, Black	8.00	450-1753-ND	.17	1.49	FSM11JH
	Tact Switch 6mm w/ Ground, 160GF, Black	9.5	450-1688-ND	.19	1.65	FSM7JH
	Tact Switch 6mm, 160GF, Black	13.0	450-1641-ND	.20	1.74	FSM13JH
7	Tact Switch SPST w/ Ground, SMT, 160GF, Black	3.09	450-1132-ND	.62	5.51	FSM1LP
	Tact Switch SPST w/ Ground, SMT, 260GF, Red	3.09	450-1139-ND	.76	6.74	FSM1LPA

Fig.	Description	Dim. H mm	Digi-Key Part No.	Pricing 1	Pricing 10	Tyco Electronics Part No.
8	Tact Switch 6x3.5mm, SPST, 130GF	5.0	450-1646-ND	.50	4.45	FSMH
	Tact Switch 6x3.5mm, SPST, 130GF	4.3	450-1665-ND	.40	3.56	FSMCH
9	Tact Switch 6x3.5mm, SPST, SMT, 180GF	4.57	450-1140-ND	.58	5.16	FSMSM
10	Tact Switch 6mm, SMT, 160GF, Black	4.3	450-1130-ND	.40	3.58	FSM2JSMA
	Tact Switch 6mm, SMT, 160GF, Black	5.0	450-1129-ND	.45	4.00	FSM4JSMA
	Tact Switch 6mm, SMT, 160GF, Blue	7.0	450-1133-ND	.57	5.09	FSM6JSMA
11	Tact Switch 6mm, Extended Actuator, Black, A=2.42mm	7.51	450-1654-ND	.38	3.38	FSMCDH
	Tact Switch 6mm, Extended Actuator, Black, A=2.80mm	7.51	450-1655-ND	.24	2.14	FSMCDAH
12	Tact Switch 6mm, Right Angle, 160GF, A=2.42mm	6.35	450-1177-ND	.43	3.78	FSMRACD
	Tact Switch 6mm, Right Angle, 160GF, A=2.80mm	6.35	450-1648-ND	.40	3.56	FSMRACDAH
13	Tact Switch 6mm, Right Angle, 160GF	3.15	450-1656-ND	.36	3.20	FSMRA1JH
	Tact Switch 6mm, Right Angle, 160GF	3.86	450-1662-ND	.32	2.85	FSMRA2JH
	Tact Switch 6mm, Right Angle, 160GF	5.85	450-1657-ND	.30	2.69	FSMRA3JH
	Tact Switch 6mm, Right Angle, 160GF	8.35	450-1658-ND	.47	4.15	FSMRA4JH
	Tact Switch 6mm, Right Angle, 160GF	6.15	450-1659-ND	.36	3.20	FSMRA5JH
	Tact Switch 6mm, Right Angle, 160GF	6.85	450-1660-ND	.40	3.56	FSMRA6JH
	Tact Switch 6mm, Right Angle, 160GF	11.85	450-1661-ND	.40	3.56	FSMRA7JH

Rocker Switches

TRD Series: Robust Rocker Switches designed for a round hole mounting. All switches are black in color and come complete with mounting nut. Current: 3A @ 125VAC (Silver) and 0.4VA Maximum @ 20VDC (Gold)

PR Series: Current: 16A @ 125VAC 1/3HP, 10A @ 250VAC 1/2HP

PRC Series: Single and double pole power rocker switches designed for snap in panel mounting rated 20A @ 125VAC or 10A @ 250VAC with an IP66 sealed construction offering protection against dust and liquids.

Dimensions in mm

Fig. 1

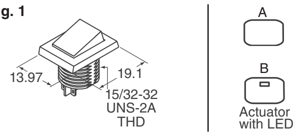

Fig. 2

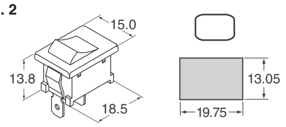

Fig. 3

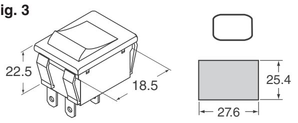

Fig. 4

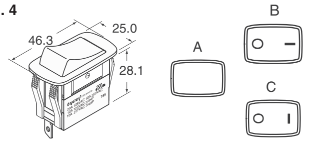

Fig.	Circuit	Function	Terminal	Features	Current	Digi-Key Part No.	Price Each 1	10	25	50	Tyco Electronics Part No.
TRD Series — Round Mounting Hole Rocker Switches											
1A	DPDT	On-On	.110” QC	Black Actuator - No Marking	3A - Silver	450-1391-ND	13.22	12.07	11.37	10.44	TRD23N10QC04
	DPDT	On-On	Solder	Black Actuator - No Marking	3A - Silver	450-1390-ND	18.33	16.72	15.76	14.47	TRD23N10WL04
	DPDT	On-On	Solder	Black Actuator - No Marking	.4VA - Gold	450-1014-ND	18.64	17.01	16.03	14.72	TRD21N10WL
	SPDT	On-On	Solder	Black Actuator - No Marking	3A - Silver	450-1389-ND	15.45	14.10	13.28	12.20	TRD13D10WL04
	SPDT	On-On	Solder	Black Actuator - No Marking	.4VA - Gold	450-1016-ND	11.17	10.20	9.61	8.82	TRD11D10WL
	SPDT	Mom-Off-Mom	Solder	Black Actuator - No Marking	.4VA - Gold	450-1154-ND	21.32	19.45	18.33	16.83	TRD11G10WL
	SPDT	On-Off-Mom	Solder	Black Actuator - No Marking	.4VA - Gold	450-1015-ND	19.61	17.89	16.86	15.48	TRD11H10WL
1B	SPDT	On-On	Solder	Black Actuator - Red LED	3A - Silver	450-1466-ND	16.25	14.82	13.97	12.83	TRD13D10WLLR204
	SPDT	On-On	Solder	Black Actuator - Red/Green LED	3A - Silver	450-1393-ND	23.77	21.69	20.44	18.77	TRD13D10WLLR2504
	SPDT	On-On	Solder	Black Actuator - Green LED	3A - Silver	450-1394-ND	19.35	17.66	16.64	15.28	TRD13D10WLLR504
PR Series — Miniature Snap-In Rocker Switches											
2	SPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1040-ND	1.43	1.27	1.15	1.11	PRASA1-16F-BB000
	SPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1028-ND	1.33	1.19	1.08	1.04	PRASD3-16F-BB000
	SPST	On-Off	QC	Red LED Window - No Marking	16A - Silver	450-1041-ND	2.17	1.93	1.75	1.68	PRASC1-16F-BBR00
—	SPST	On-Off	QC	Euro-Style - Black - No Marking	16A - Silver	450-1038-ND	1.74	1.54	1.40	1.35	PRBSA1-16F-BB000
3	DPDT	On-On	QC	Black Actuator - No Marking	16A - Silver	450-1026-ND	3.57	3.17	2.88	2.76	PRDDD1-16F-BB000
	DPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1027-ND	2.54	2.26	2.05	1.97	PRDDA1-16F-BB000
	DPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1021-ND	4.65	4.13	3.75	3.60	PRDDD3-16F-BB000
PRC Series — IP66 Snap-In Rocker Switches											
4A	SPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1669-ND	4.06	3.61	3.28	3.15	PRCSA1-20L-BR000
	SPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1670-ND	4.15	3.69	3.35	3.22	PRCSA1-20F-BR000
	SPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1673-ND	4.06	3.61	3.28	3.15	PRCSA1-20L-BB000
	SPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1676-ND	4.15	3.69	3.35	3.22	PRCSA1-20F-BB000
	DPST	On-Off	Screw	Black Actuator - No Marking	20A - N/A	450-1679-ND	6.63	5.89	5.35	5.14	PRCDA1-20S-BB000
	DPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1680-ND	5.89	5.23	4.75	4.56	PRCDA1-20L-BR000
	DPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1681-ND	6.05	5.37	4.88	4.68	PRCDA1-20F-BR000
	DPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1684-ND	5.89	5.23	4.75	4.56	PRCDA1-20L-BB000
	DPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1687-ND	6.05	5.37	4.88	4.68	PRCDA1-20F-BB000
4B	SPST	On-Off	Screw	Black Actuator	20A - White	450-1667-ND	4.53	4.02	3.65	3.51	PRCSA1-20S-BB0BW
	SPST	On-Off	Solder	Black Actuator	20A - White	450-1672-ND	4.15	3.69	3.35	3.22	PRCSA1-20L-BB0BW
	SPST	On-Off	QC	Black Actuator	20A - White	450-1675-ND	4.46	3.96	3.60	3.46	PRCSA1-20F-BB0BW
	DPST	On-Off	Screw	Black Actuator	20A - White	450-1678-ND	6.63	5.89	5.35	5.14	PRCDA1-20S-BB0BW
	DPST	On-Off	QC	Black Actuator	20A - White	450-1686-ND	6.32	5.61	5.10	4.90	PRCDA1-20F-BB0BW
4C	SPST	On-Off	Screw	Black Actuator	20A - White	450-1666-ND	4.53	4.02	3.65	3.51	PRCSA1-20S-BB0CW
	SPST	On-Off	Solder	Black Actuator	20A - White	450-1671-ND	4.15	3.69	3.35	3.22	PRCSA1-20L-BB0CW
	SPST	On-Off	QC	Black Actuator	20A - White	450-1674-ND	4.22	3.74	3.40	3.27	PRCSA1-20F-BB0CW
	DPST	On-Off	Screw	Black Actuator	20A - White	450-1677-ND	6.63	5.89	5.35	5.14	PRCDA1-20S-BB0CW
	DPST	On-Off	Solder	Black Actuator	20A - White	450-1682-ND	5.95	5.28	4.80	4.61	PRCDA1-20L-BB0CW

Series 88 Sealed Keypads

Versatile keypads that work indoors or outdoors.

Grayhill Series 88 keypads are fully sealed keypads for use indoors or outdoors that offer a fully sealed snap-dome contact with an operational life of 3 million operations per key. Various colored graphic overlays are available or you can create your own keypad by using 3 items: (1) a blank keyboard; (2) the clear window overlay; (3) a sheet of legend transfers. Optional panel seal gasket provides a dust and water weather seal between your keypad and your equipment panel.
Materials and Finishes: • **Housing:** ABS polycarbonate, black • **Graphic Overlay:** Polyester • **Contact Dome:** Stainless steel, selectively gold plated • **Terminals:** Copper alloy, CDA No. 725, Tin-lead plated

Fig. 1

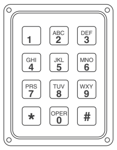

Fig. 2

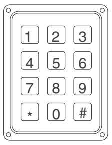

Fig. 3

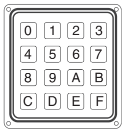

Fig. 4

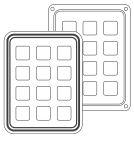

Fig.	Description	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
	Series 88 Keypads					
1	12-Key Keypad with Black housing; White keys and Black lettering	GH5012-ND	26.57	19.93	17.01	88AB2-143
2	12-Key Keypad with Black housing; White keys and Blue lettering	GH5013-ND	26.57	19.93	17.01	88AB2-152
	12-Key Keypad with Black housing; Blue keys and White lettering	GH5014-ND	26.57	19.93	17.01	88AB2-172
3	16-Key Keypad with Black housing, Blue/White keys and Black/Blue lettering	GH5015-ND	23.02	—	19.65	88BB2-052
	16-Key Keypad with Black housing, Blue keys and White lettering	GH5016-ND	30.69	23.02	19.65	88BB2-072
	16-Key Keypad with Black housing, Red keys and White lettering	GH5017-ND	23.02	—	19.65	88BB2-082
	Series 88 Clear Key Keypads — Customize Your Own Keypad Layout					
4	12-Key Keypad with Blank keys for use with Legend sheets below	GH5018-ND	21.08	15.82	13.50	88AB2
	16-Key Keypad with Blank keys for use with Legend sheets below	GH5019-ND	23.44	17.58	15.00	88BB2
	20-Key Keypad with Blank keys for use with Legend sheets below	GH5020-ND	31.23	23.43	19.99	88JB2
—	Legend Sheet, Medium Print lettering for Blank Keys, self-adhesive type	GH5024-ND	5.94	4.46	3.81	87AC2046
4	Clear Protective Overlay for 12-Key Keypad (protects your customized lettering)	GH5025-ND	19.36	14.53	12.40	88-101
	Clear Protective Overlay for 16-Key Keypad (protects your customized lettering)	GH5026-ND	16.97	12.73	10.86	88-001
	Clear Protective Overlay for 20-Key Keypad (protects your customized lettering)	GH5027-ND	17.59	13.20	11.26	88-201
	Panel Seal Gaskets for Series 88 Keypads					
—	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Subpanel Mount	GH5028-ND	1.49	1.13	.96	88M2001-2
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Subpanel Mount	GH5029-ND	1.53	1.15	.98	88M2009-2
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Subpanel Mount	GH5030-ND	1.59	1.20	1.02	88M2019-1
	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Top Panel Mount	GH5031-ND	1.88	1.41	1.21	88M2012-1
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Top Panel Mount	GH5032-ND	1.96	1.47	1.26	88M2015-1
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Top Panel Mount	GH5033-ND	2.01	1.51	1.29	88M2018-1

Series 96 Keypads

Grayhill's Series 96 are their most economical 3x4 and 4x4 keypad family. They have such features as conductive rubber contacts with an operational life of 3 million operations and a good tactile feel for positive feedback to the operator. GH5001 thru GH5004 have black legends with white keys and a black ABS housing. GH5008 thru GH5011 have white legends with black keys and a black ABS housing.
12 Key mating connector use Digi-Key® part numbers: A3016-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)
16 Key mating connector use Digi-Key® part numbers: A3017-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

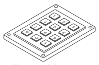

Rear Mount

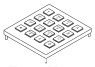

Front Mount

Description	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
12 Key Keypad, Front Mount, White Keys	GH5001-ND	12.88	9.66	8.25	96AB2-102-F
12 Key Keypad, Rear Mount, White Keys	GH5002-ND	12.88	9.66	8.25	96AB2-102-R
16 Key Keypad, Front Mount, White Keys	GH5003-ND	14.34	10.76	9.18	96BB2-006-F
16 Key Keypad, Rear Mount, White Keys	GH5004-ND	14.34	10.76	9.18	96BB2-006-R
12 Key Keypad, Front Mount, Black Keys	GH5008-ND	12.88	9.66	8.25	96AB2-152-F
12 Key Keypad, Rear Mount, Black Keys	GH5009-ND	12.88	9.66	8.25	96AB2-152-R
16 Key Keypad, Front Mount, Black Keys	GH5010-ND	14.34	10.76	9.18	96BB2-056-F
16 Key Keypad, Rear Mount, Black Keys	GH5011-ND	14.34	10.76	9.18	96BB2-056-R

NEW! Series 84R/84LS Keypads

84R Series: Series 84R keypads work in harsh industrial environments where exposure to fine particulates compromises other keypads. The sealed openings and tough construction make this keypad for outdoor use as well. Typical applications include security system code entry and product selection on outdoor terminals. **Features:** • Metal Keys and Housing • Sealed for Use Outdoors • Full Travel Keys Provide Positive Feedback • Available with an Optional Locking Connector • Custom Engraved Legends Available

84LS Series: The Series 84LS is the low profile version of Grayhill's popular Series 84S sealed keypads. These keypads are legended by epoxy ink printing the rubber key tops. Custom legends and colors are available at a nominal cost. The Series 84LS is offered with a choice of matrix or single pole/common bus circuitries and EMI shielding. **Features:** • Waterproof Silicone Rubber • Easily Customized Legends • Audible, Tactile Contacts • Low Contact Resistance • 3,000,000 Operations per Button

Fig.	Description	Digi-Key Part No.	Price Each 1	100	500	1,000	Grahill Part No.
	84R Series						
1	Rugged Keypad for Tough Environments, 3x4 Size	GH7447-ND	74.42	55.82	47.63	40.19	84R-AB2-112-PD
	Rugged Keypad for Tough Environments, 4x4 Size	GH7448-ND	91.06	68.30	58.28	49.18	84R-BB2-014-PD
	84LS Series						
2	Sealed Low Profile, 3x4 Size, With Hex Nuts	GH7449-ND	39.31	—	33.55	28.31	84LS-AB2-112-N
	Sealed Low Profile, 3x4 Size, With Hex Nuts	GH7450-ND	39.31	—	33.55	28.31	84LS-AB2-113-N
3	Sealed Low Profile, 4x4 Size, With Hex Nuts	GH7451-ND	42.28	—	36.08	30.44	84LS-AB2-114-N
	Sealed Low Profile, 4x4 Size, With Hex Nuts	GH7452-ND	42.28	—	36.08	30.44	84LS-AB2-115-N

Fig. 1

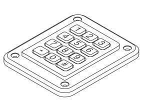

Fig. 2

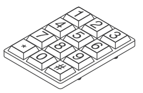

Fig. 3

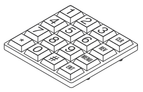

NEW! Series 04/04J Joysticks

Series 04 Features: • Joystick • Position Locator On CRT Screens • Moves Cursor On Menu Display
Series 04J Features: • Sealed against contamination when properly mounted (IP68) • Two formats available: behind-panel mount or front-panel mount

Fig.	Description	Actuator Type	Switch Function	Contact Rating @ Voltage	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
	04 Series									
1	4-way 4PST	Joystick	2 Axis	0.25A @ 115 VAC	GH7453-ND	11.78	—	8.84	—	04A
2	4-way with arrowhead keycap	4-Way Selector	2 Axis	0.25A @ 115 VAC	GH7454-ND	14.26	—	10.70	—	04A-K01
3	4-way 4PST w/bat-handle	Joystick	2 Axis	0.25A @ 115 VAC	GH7455-ND	14.43	—	10.83	—	04A-B01
	04J Series									
4	4-way with PB rear panel mount	4-Way Selector	2 Axis with Select	2A @ 115 VAC	GH7456-ND	111.28	94.59	83.46	73.45	04J-BP-T01
5	4-way with PB front panel mount	4-Way Selector	2 Axis with Select	2A @ 115 VAC	GH7457-ND	106.53	90.55	79.90	70.31	04J-AP-C01

Fig. 1

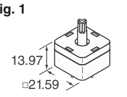

Fig. 2

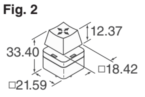

Fig. 3

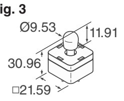

Fig. 4

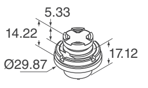

Fig. 5

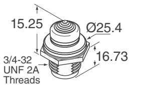

NEW! Multi-Function Joystick Series 60C

Features: • Three-in-One Joystick, Optical Encoder and Pushbutton • Compact Packaging

Applications: • Avionics • Metal Equipment • Automotive Navigation, Information and Entertainment Equipment

The 60C is a cost-effective replacement of a stationary mouse or trackball with improved control over cursor movement. An integral Schmitt Trigger is used to stabilize against noise and vibration.

As a compact cursor control device, Grayhill's Series 60C is ideally suited for automotive and aviation dashboards, where use of separate joysticks, encoders and pushbuttons might be impractical. It provides all the functionality of a stationary mouse or trackball in a single-shaft design with a 1"x1"x 3/4" deep housing. The joystick manipulates a cursor left, right, up and down; the rotary encoder facilitates sequential scrolling through menu options; and the push-button performs on-screen menu selects.

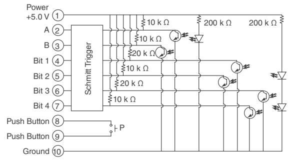

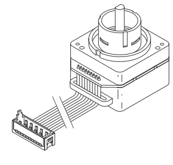

Cable Length (Inches)	Pushbutton (Grams)	Joystick	Angle of Throw	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
4.0	485	4 Directions	16 positions	GH7446-ND	31.10	24.88	18.66	60C22-M7-4-040C

5000 Series – Toughened Display Module

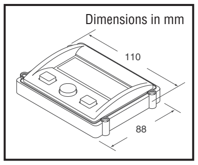

This unique bezel ensures an effective presentation of character or graphic display devices in any instrument or control panel. The display bezel fixes from the underside of any control panel, providing a tough and water sealed installation. Three menu navigation and option select keys provide an intuitive and reliable operator interface familiar to any cell phone user. The impact and scratch resistant polycarbonate screen ensures maximum protection against vandalism or hard use in an industrial environment. Offered with an optional back-lit 4 line x 20 character LCD. Alternatively, this bezel can be specified as a non-loaded device that is ready to accept alternate displays. **Features:** • Impact resistant (10J BS EN 60068-2-75 : 1997) • Sealed against liquids and dust (IP65) • -20°C (dry) ~ 60°C • Resistant to petrochemicals and most commonly used cleaning agents

Description	Digi-Key Part No.	Price Each			Storm Part No.
		1	10	50	
Tough Display Module – without LCD	MGR1618-ND	41.46	37.03	32.61	5001-200103
Tough Display Module – with 4x20 character LCD	MGR1619-ND	92.53	82.65	72.77	5001-200203

SF6000 Series –Tough and Compact, Alpha-Numeric Keypads

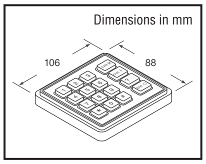

Storm's SF6000 Series keypads are perfectly suited for industrial applications, access control devices or any public-use data entry device. Large, brightly colored keys with raised tactile symbols ensure maximum usability by those with visual or mobility impairments. SF6000 Series keypads feature Storm's patented weather resistant (IP65) and vandal resistant switch technology, which allows these devices to be confidently deployed in the harshest industrial or outdoor environments. It also features a stainless steel front plate with high impact polymer keys. It has a 4x4 matrix output with separate connection for illumination. **Illuminated SF6000 Series Keypads:** Make data entry easy with large, brightly lit keys. Each key is back-lit by a powerful 4.5 volt LED, making these keypads ideal for dark environments.

Description	Digi-Key Part No.	Price Each			Storm Part No.
		1	10	50	
Keypad with Polymer Keys	MGR1624-ND	109.14	97.49	85.84	8616-210023
Keypad with Metal Keys	MGR1625-ND	138.96	124.13	109.29	8616-310023
Keypad with Illuminated Keys	MGR1626-ND	138.96	124.13	109.29	8616-410023
Mount Kit For SF6000 Series	MGR1627-ND	7.90	7.06	6.22	8600-MK0003

K Range Keypad System

Interchangeable for Different Environments/Applications

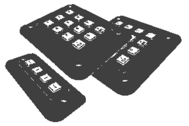

Storm K Range keypads are 100% interchangeable to suit any application. Each series is identical in size and mounting specifications, allowing for easy price/performance selection for different environments. Each keypad is available in calculator or telephone formats (arrows or F-Keys on the 4-key version) or the end user may customize by using optional blank keys. All keypads are compatible with the Storm Universal Encoder and include instructions and a gasket seal. Storm K Range Kepads are ideal for access control, pin numbering/banking functions and kiosk application.

Storm 1000 Series — *Public/Outdoor Environments*

• Anti-Vandal design ideal for public environment • Features metal casing and keys • Fully sealed, to IP67, for use in outdoor environments • Key color: Silver • Case Color: Silver • Operational life: 4 Million cycles (min) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm PLX Series — *Anti-Vandal, Industrial Sealed Keypad*

• Tough metal key keypad with polymer housing • Ideal for public and industrial environments • Sealed to IP65 for exposed environments • Case Color: Black • Key Color: Silver • Operational life: 4 million cycles (minimum) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, goldplated, square pin, male

Storm 2000 Series — *Harsh Industrial/Wet Environments*

• Impact resistant industrial keypad • High impact resistant polymer casing and keys • Sealed to IP65, allowing pressure hose wash • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 4 million cycles (min) per key • Operational Temperature Range: -25°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm 3000 Series — *General Service/Sheltered Outdoor Use*

• Reliable keypad for sheltered environments • General service polymer casing and keys • Rain and splash proof to IP54 specifications • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 2 million cycles (min) per key • Operational Temperature Range: -10°C ~ 85°C • Connector: 0.1" pitch, gold plated, square pin, male

Keypad Interface

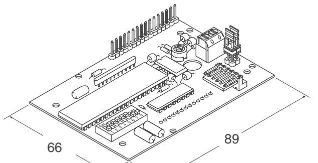

Storm 420 Series Encoders provide an interface between keypads and host systems. Converting the matrix output from Storm keypads, the encoder sends RS232 output to a host system, via the 6 pin .100" (2.54mm) pitch connector.

Features: • Input Power +5V ± 0.25VDC • RS232 Output via 6 pin Molex .100" (2.54mm) Pitch KK Series Connector • Drives Powertip's 80 character LCD Display from keypad • RS232

Mates With:
• Connector: WM2004-ND **• Contact:** WM2312-ND

MGR1602-ND.................................... **$69.59**

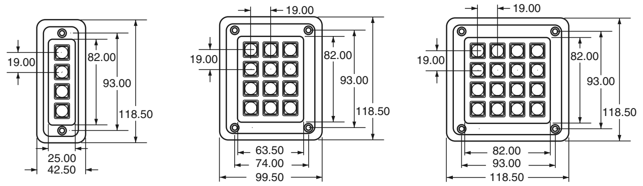

Description	Digi-Key Part No.	Price Each	Storm Part No.
1000 Series - Vandal Resistant - (Silver Diecast Housing)			
4-Key Keypad, Arrow keys	MGR1512-ND‡	44.81	1K041103
4-Key Keypad, F1-F4 keys	MGR1511-ND‡	44.81	1K042103
12-Key Keypad, Telephone	MGR1513-ND†	64.72	1K12T103
12-Key Keypad Calculator	MGR1501-ND†	64.72	1K120103
16-Key Keypad, Telephone	MGR1514-ND†	77.66	1K16T103
16-Key Keypad Calculator	MGR1601-ND†	77.66	1K160103
PLX Series			
4-Key Keypad, F1-F4 Keys, Black Case	MGR1541-ND	38.97	PLX042203
4-Key Keypad, Arrow Keys, Black Case	MGR1542-ND	38.97	PLX041203
12-Key Keypad, Calculator Format, Black Case	MGR1543-ND	56.31	PLX120203
12-Key Keypad, Telephone Format, Black Case	MGR1544-ND	56.30	PLX12T203
16-Key Keypad, Calculator Format, Black Case	MGR1545-ND	67.55	PLX160203
16-Key Keypad, Telephone Format, Black Case	MGR1546-ND	67.54	PLX16T203
2000 Series - Industrial - (Mid-Grey Impact Polymer Housing)			
4-Key Keypad, Arrow keys	MGR1516-ND‡	30.86	2K041103
4-Key Keypad, F1-F4 keys	MGR1517-ND‡	30.86	2K042103
12-Key Keypad, Calculator Format	MGR1518-ND†	44.81	2K120103
12-Key Keypad, Telephone Format	MGR1519-ND†	44.81	2K12T103
16-Key Keypad, Calculator Format	MGR1520-ND†	54.75	2K160103
16-Key Keypad, Telephone Format	MGR1521-ND†	54.75	2K16T103
3000 Series - Commercial - (Mid-Grey General Service Polymer Housing)			
4-Key Keypad, Arrow keys	MGR1523-ND‡	19.70	3K041103
4-Key Keypad, F1-F4 keys	MGR1524-ND‡	19.70	3K042103
12-Key Keypad, Calculator Format	MGR1525-ND†	29.06	3K120103
12-Key Keypad, Telephone Format	MGR1526-ND†	29.06	3K12T103
16-Key Keypad, Calculator Format	MGR1527-ND†	35.34	3K160103
16-Key Keypad, Telephone Format	MGR1528-ND†	35.34	3K16T103
Accessories			
Blank Keys for 1000 Series 4 pieces	MGR1515-ND	5.77	1K000003
Blank Keys for 2000/3000 Series 4 pieces	MGR1522-ND	2.47	2K000003
Rear Casing for 12-Key Keypads	MGR1536-ND	28.32	RC120203
Privacy Shroud for 12-Key Keypads	MGR1562-ND	30.31	1KFS0203

‡ 4-Key Mating Connector use Digi-Key Part Number: WM2003-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)
† 12 Key or 16-Key Mating Connector use Digi-Key Part Number: WM2006-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)

Environmentally Sealed Keypads 700 Series

The 700 Series of sealed keypads intended are for use individually or as modular building blocks to create more complex key-panel layouts. Unlike other sealed keypads, the 700 series have excellent tactile characteristics providing fast and reliable data input. When a keytop is depressed a conductive rubber pill makes contact with a gold plated PCB. These contact materials provide the highest level of protection against corrosive atmospheres and contact oxidization. Each keypad has interchangeable keytop legend tiles. Keypads come in two colors, gray or black, and feature a matrix style output. Instructions and pinouts are included. Compatible with Storm Universal Encoder part number "MGR1602-ND".

Dimensions in mm

Fig. 1

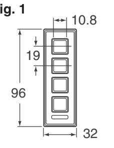

Fig. 2

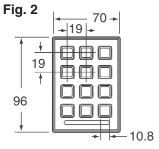

Fig. 3

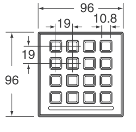

Fig. 4

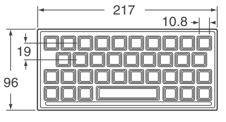

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
1	4 Key Keypad with Legend Set A, Gray	MGR1101-ND	25.96	70040103
	4 Key Keypad with Legend Set A, Black	MGR1111-ND	25.96	70040203
2	12 Key Keypad with Legend Set A, Gray	MGR1102-ND	34.61	70120103
	12 Key Keypad with Legend Set A, Black	MGR1112-ND	34.61	70120203
3	16 Key Keypad with Legend Set A, Gray	MGR1103-ND	44.87	70160103
	16 Key Keypad with Legend Set A, Black	MGR1113-ND	44.87	70160203
4	36 Key Keypad with Legend Set B & C, Gray	MGR1104-ND	75.10	70360103
	36 Key Keypad with Legend Set B & C, Black	MGR1114-ND	77.00	70360203
—	Legend Set A 0-9, Arith. Function, Arrows	MGR1201-ND	4.28	70A00103
	Legend Set B Computer Legend, Arrows	MGR1202-ND	4.28	70B00103
	Legend Set C Alphabet Legend	MGR1203-ND	4.28	70C00103
	Legend Set D F1-F12, Misc. Keys	MGR1204-ND	4.00	70D00103
	Legend Set E Blank Legend	MGR1205-ND	4.12	70E00103
	Legend Set F 0-9, Ent, Off, +, -, #, *	MGR1206-ND	4.12	70F00103
	Under Panel Mount Clip (2 pcs.)	MGR1401-ND	3.86	7004CL03

2200 Series Vandal Resistant Keyboards and Keyboards with Trackball

These keyboards are constructed to survive in exposed, unsupervised, public environments. A hardened stainless steel front plate and captive, high impact polymer keys ensure the keyboard's resistance to hard use and abuse.

Features: • Tough, vandal resistant construction • Permanent laser engraved keytop characters • Sealed against water and dust to IP65 • Integral PS/2, USB interface electronics (switchable) • Foot Mounting kit available for desktop applications

Fig. 1

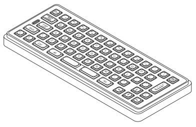

Fig. 2

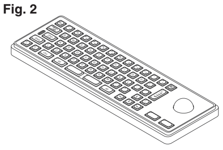

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
1	Vandal Resistant Keyboard, 61-Key	MGR1609-ND	308.49	2210-220023
	Vandal Resistant Keyboard, 75-Key including F-Keys	MGR1613-ND	329.09	2220-220023
	Vandal Resistant Keyboard, 93-Key including number pad	MGR1614-ND	370.29	2230-220023
2	Vandal Resistant Keyboard, 63-Key with Poly TB	MGR1610-ND	452.69	2210-220223
	Vandal Resistant Keyboard, 63-Key with Metal TB	MGR1611-ND	514.49	2210-320323
—	Foot Mounting Kit for 2200 Series	MGR1617-ND	19.86	2200-FK0003

2200 Series Stand-Alone Trackballs

This 38mm, panel mount, trackball provides smooth, accurate and responsive cursor control in wet, dirty or aggressive environments. Sealed against the ingress of fluids and dust, the device automatically configures to provide either PS/2 or USB connectivity. The robust chassis is designed to provide secure under-panel fixing for maximum resistance to hard use, abuse and vandalism. This device is supplied complete with comprehensive fixing, connection and configuration instructions.

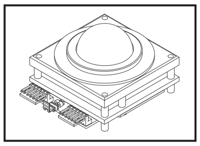

Description	Digi-Key Part No.	Price Each	Storm Part No.
Robust Trackball Phenolic Ball	MGR1607-ND	113.00	2200-000203
Vandal Resistant Trackball Steel Ball	MGR1608-ND	151.10	2200-000303
Accessories for 2200 Series Keyboards and Trackballs			
PS/2 Keyboard Cable; 2.5 Meters	MGR1603-ND	11.90	1200-001003
USB Keyboard Cable; 2.5 Meters	MGR1604-ND	11.90	1200-002003
PS/2 Trackball Cable; 2.5 Meters	MGR1605-ND	11.90	2200-002003
USB Trackball Cable; 2.5 Meters	MGR1606-ND	11.90	2200-003003

Storm GFX Series *Customizable Keypad*

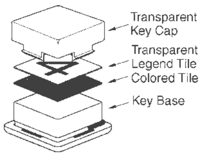

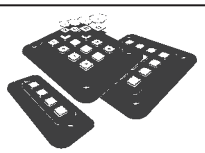

Available with Full Key Illumination

Graphic Series Keypads feature customizable keytop legends. Keypad layouts are customized by inserting legend tiles into the transparent keycap then securing the self-locking cap onto the key base. Once pressed into place, the keycap provides a permanent cover resistant to water, dust and physical damage.

Illuminated Graphic Series Keypads are perfect for dimly lit environments. They also feature easily customizable legends, each keytop can be illuminated in a wide range of colors using the translucent color tiles. Available with white or red/green LED key illumination. • Fully customizable impact-resistant keypads • Ideal for commercial and industrial applications • Rain and splash proof to IP54 specifications • 4, 12 and 16 key formats available • Case Color: Black • Operational life: 2 million cycles (min) per key • Operational temp. range -10°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Description	Digi-Key Part No.	Price Each	Storm Part No.
4-Key Graphic Keypad and 5 Keycaps, Common Bus	MGR1547-ND	24.59	GS040203
12-Key Graphic Keypad and 13 Keycaps, Black, Matrix	MGR1548-ND	35.70	GS120203
16-Key Graphic Keypad and 17 Keycaps, Black, Matrix	MGR1549-ND	43.63	GS160203
4-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1568-ND	29.61	GSRG040203
12-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1569-ND	43.00	GSRG120203
16-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1570-ND	52.56	GSRG160203
4-Key Illuminated Graphic Keypad (White LED)	MGR1571-ND	34.56	GSLW040203
12-Key Illuminated Graphic Keypad (White LED)	MGR1572-ND	53.77	GSLW120203
16-Key Illuminated Graphic Keypad (White LED)	MGR1573-ND	70.09	GSLW160203
Legend Set A, 0-9, Arithmetic Function, Arrows, 26 Tiles	MGR1550-ND	2.56	GSA0T203
Legend Set B, Computer Legend, Arrows, 26 Tiles	MGR1551-ND	2.57	GSB0T203
Legend Set C, Alphabet Legend, 26 Tiles	MGR1552-ND	2.58	GSC0T203
Legend Set D, F1-F4 Keys, Misc. Keys, 26 Tiles	MGR1553-ND	2.57	GSD0T203
Legend Set E, Blank Keys Legend, 30 Tiles	MGR1554-ND	2.58	GSE0T203
Legend Set F, 0-9, Ent., Off, +, -, #, *, 25 Tiles	MGR1555-ND	2.58	GSF0T203
Gray Colored Legends, 30 Tiles	MGR1556-ND	1.72	GS000203
Red Colored Legends, 30 Tiles	MGR1557-ND	1.72	GS000303
Green Colored Legends, 30 Tiles	MGR1558-ND	1.71	GS000403
Blue Colored Legends, 30 Tiles	MGR1559-ND	1.71	GS000503
White Colored Legends, 30 Tiles	MGR1615-ND	1.72	GS000103
Yellow Colored Legends, 30 Tiles	MGR1560-ND	1.71	GS000603
Replacement Keycaps, 4 Keycaps and 4 Keybases	MGR1561-ND	5.15	GS000003

Computer Keyboards

Fig. 1

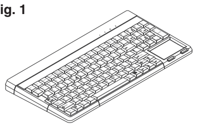

G8662401 Series: Compact, 106-Key with Integrated Touchpads, featuring full QWERTY key layout in compact 14" design and a numeric pad that includes "00" key.

Fig. 2

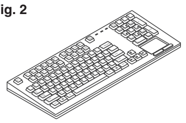

G80-11900: Compact 104-key IBM compatible keyboard with integrated, 2 button touchpad. Perfect for space critical applications.

Fig. 3

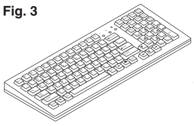

G81-1800: Compact, 104-key, Windows compatible, data entry keyboard, featuring full travel, sealed contact and membrane, AT or PS/2 interface.

Fig. 4

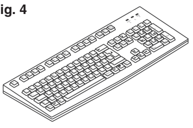

G83-6104: Economical, Windows compatible, 104-key laser printed caps with auto-repeat and full travel key switches.

Fig. 5

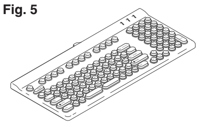

J84-2800: Fully-sealed, washable keyboard, 104-key with CleanKey, completely sealed rubber casing, suitable for rinsing and immersion with cleaning and disinfection fluids

Fig. 6

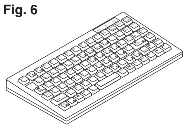

G84-4100: Notebook size for applications with space limitations or mobile systems. Windows compatible.
G85-23100: STEAM XT corded keyboard is stylish, sturdy and makes little noise. Even fluids do not affect the functionality of the keyboard.

Fig. 7

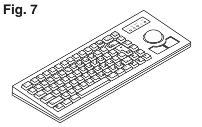

G84-4400: Notebook size with two functions in a single device. Ultra-low profile and an integrated, high quality, PS/2 compatible 16mm trackball, makes this keyboard ideal for applications where space is limited.
G822700EU: The Initial Corded MultiMedia Keyboard from Cherry is perfect for anyone who appreciates a standard flat keyboard with modern design. 5 additional hotkeys make multimedia applications easy to operate.

Fig. 8

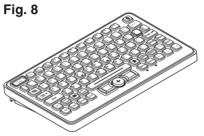

J84-2120: Washable backlit keyboard with integrated pointing device, 83-key with CleanKey.

Fig. 9

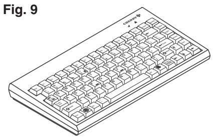

G86-52400EUADAA: Reduced-size with QWERTY layout with IP54 for spill and dust resistant key field for harsh environments, plug and play, yellow status LEDs for improved visibility in rooms with artificial illumination.

Fig. 10

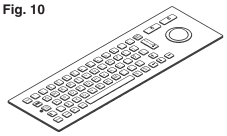

J86-4400LUAUS: Stainless steel keytops and fascia, 67-key US layout for public-access kiosk applications, 71 inch cable, trackball diameter: 38mm.

Fig. 11 ***NEW!***

J84-4300LUAUS-2: This slim, low profile, compact keyboard with integrated pointing device offers an IP55 rating protection against dust and spraying liquids. It's ideal for applications requiring frequent disinfection for elimination of germs.

Fig. 12

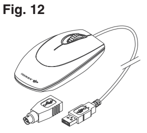

M-5400: Optical sensor for precise movement of the mouse pointer, with a resolution of up to 800 dpi.

Fig. 13 ***NEW!***

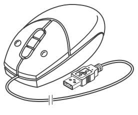

MW2800x: Washable Optical Mouse with Scrolling Buttons for Industrial and Medical Applications. Completely sealed silicone-based casing. Suitable for rinsing with cleaning and disinfection fluids. Impervious to typical hospital cleaning solutions. Hypo-allergenic, silicone skin provides a soft feel.

Fig. 14 ***NEW!***

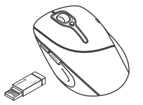

M-300R: Ideal for use on the move with an energy-saving On/Off switch.
M-305: Wireless freedom with 2.4 GHz wireless technology offering a 10m range and interruption-free transmission

Fig. 15 ***NEW!***

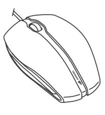

JM-0300: An exceptional modern design illuminates the sides and the scroll wheel and provides a truly eye-catching work surface. The slip-proof sides made from solid rubber ensure smooth, accurate cursor control even in hectic situations. The GENTIX mouse can be connected quickly and easily to any Notebook, PC or Mac via the USB connection.

Fig.	Description	Digi-Key Part No.	Price Each	Cherry Part No.
106-Key Computer Keyboards				
1	Industrial Compact, Integrated Touchpad, USB, Black	CH918-ND	134.30	G8662401EUADAA
	Industrial Compact, Integrated Touchpad, USB, Light Gray	CH919-ND	134.30	G8662401EUAEAA
Full Size, 104-Key Computer Keyboards				
2	Touch Board PS/2, Light Gray, AT and Serial Adapters	CH888-ND	186.64	G8011900LTMUS0
	Touch Board PS/2, Black, AT and Serial Adapters	CH889-ND	186.64	G8011900LTMUS2
	Touch Board PS/2, Light Gray	CH887-ND	178.08	G8011900LPMUS0
	Touch Board PS/2, Black	CH893-ND	178.08	G8011900LPMUS2
3	General Purpose USB, Light Gray	CH894-ND	90.13	G811800LUMUS0
4	Business Keyboard, PS/2, Light Gray	CH908-ND	40.93	G83-6104LPNEU-0
	Business Keyboard, USB, Light Gray	CH909-ND	40.93	G83-6104LUNEU-0
	Business Keyboard, USB, Black	CH910-ND	40.93	G83-6104LUNEU-2
—	Business Design K-1 USB, Light Gray	CH900-ND	17.49	J8216001LUNEU0
	Business Design K-1 USB, Black	CH901-ND	17.49	J8216001LUNEU2
5	Fully-Sealed, Washable, USB, Light Blue	CH917-ND	242.87	J84-2800LUAUS-5
6	Stream XT, USB, PS/2, Black	CH967-ND ***NEW!***	53.20	G85-23100EU-2
7	Initial, USB, Black	CH968-ND ***NEW!***	35.10	G8227000EU
Notebook Style, 86-Key Computer Keyboard				
6	Ultraslim, USB, PS/2, Black	CH929-ND	100.34	G84-4100LCMUS-2
Notebook Style, 83-Key Computer Keyboards				
6	USB Interface, Tampo-Printed Caps, Black	CH747-ND	100.34	G844100PTAUS

Fig.	Description	Digi-Key Part No.	Price Each	Cherry Part No.
6	Ultraslim, USB, PS/2, Light Gray	CH911-ND	100.34	G84-4100LCAUS-0
7	Integrated Trackball, USB, Tampo-Printed Caps, Beige	CH752-ND	168.30	G84-4400PUBUS
	Ultraslim, Integrated Trackball, PS/2, Light Gray	CH912-ND	186.64	G84-4400PUBUS-0
	Ultraslim, Integrated Optical Trackball, 2X PS/2, Light Gray	CH913-ND	186.64	G84-4420LPBEU-0
	Ultraslim, Integrated Optical Trackball, 2X PS/2, Black	CH914-ND	186.64	G84-4420LPBEU-2
	Ultraslim, Integrated Optical Trackball, USB, 2X PS/2, Black	CH930-ND	186.64	G84-4420LUBEU-2
8	Backlit, Washable, Integrated Pointing Device, USB, Black	CH915-ND	259.17	J84-2120LUAUS-2
	Backlit, Washable, Integrated Pointing Device, USB, Light Blue	CH916-ND	259.17	J84-2120LUAUS-5
9	Mini Industrial, USB Interface, Black	CH961-ND	88.23	G86-52400EUADAA
Vandal-Proof, 67-Key Computer Keyboard				
10	Stainless Steel with Rubber Mat Switches and Rugged Trackball	CH960-ND	457.47	J86-4400LUAUS
NEW! Wipe-Key 87-Key Washable Keyboard NEW!				
11	Ultraslim, USB, Black	CH964-ND	112.45	J84-4300LUAUS-2
Optical Mice				
12	USB, PS/2 Adapter, Light Gray	CH902-ND	16.88	M-5400
	USB, PS/2 Adapter, Black	CH903-ND	16.88	M-5450
13	Washable, USB, Black	CH962-ND ***NEW!***	43.70	MW28002
	Washable, USB, Medical Blue	CH963-ND ***NEW!***	43.70	MW28005
14	Azuro Wireless Optical, USB, Blue	CH965-ND ***NEW!***	47.50	M-305
	Life Nano Wireless Laser, USB, Black	CH966-ND ***NEW!***	61.20	M-300R
15	GENTIX Corded Optical Illuminated Mouse	CH969-ND ***NEW!***	26.00	JM0300

CHERRY

MX Key Switches

Main Advantages: • The MX is a modern full-travel low-profile keyswitch • This module is designed to meet all current ergonomic standards demanded for word and data processing applications • Gold wire crossbar contacts ensure long life expectancy • High reliability also during quick actuation • All switches are momentary N/O type **Specifications:** • Maximum Voltage 12 • Maximum Current 10mA • Contact Resistance 200mΩ • Capacity at 1MHz <1pf • Bouncing Time at 0.4 ≤5ms

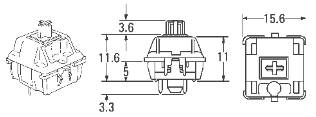

PCB Mount with Support Pins

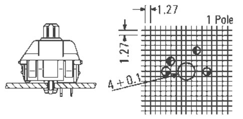

Face Plate Mount

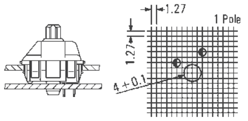

Description	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
PCB Mount					
Linear Feel	CH160-ND	.86	.77	.64	MX1A-11NW
Click Tactile Feel	CH197-ND	1.35	1.20	1.00	MX1A-EINW
Soft Tactile Feel	CH310-ND	1.49	1.32	1.10	MX1A-C1NW
Face Plate Mount					
Linear Feel	CH162-ND	.95	.84	.70	MX1A-11NN
Click Tactile Feel	CH196-ND	1.49	1.32	1.10	MX1A-EINN
Soft Tactile Feel	CH198-ND	1.49	1.32	1.10	MX1A-CINN

Pushwheel Switches

Fig.	Output Code	Posi-tions	Read-Out	Features	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
PA Pushwheel										
1A	BCD	10	0 - 9	Extended Buttons	CH178-ND◆	19.71	17.52	14.60	12.05	PACA-3000
	BCD Compl.	10	0 - 9	Extended Buttons	CH179-ND◆	30.40	27.03	22.52	18.58	PAEA-3000
	BCD	10	0 - 9	Ext. Board for Diodes	CH180-ND◆	24.03	21.36	17.80	14.69	PACA-4000
	Decimal	10	0 - 9	Extended Buttons	CH682-ND◆	22.49	20.00	18.75	15.83	PAAA-3000
	Octal	8	0 - 7	Extended Buttons	CH683-ND◆	22.92	20.38	16.98	14.01	PABA-3000
	Octal	8	0 - 7	Flush Buttons	CH684-ND◆	22.92	20.38	16.98	14.01	PABA-3114
	BCD	10	0 - 9	Extended Buttons	CH685-ND◆	21.38	19.01	15.84	13.07	PACA-3100
	BCD	10	0 - 9	Flush Buttons	CH686-ND◆	21.38	19.01	15.84	13.07	PACA-3114
	Hexadecimal	16	0 - 15	Extended Buttons	CH687-ND◆	17.09	15.20	12.66	10.45	PAGA-3100
	Hexadecimal	16	0 - 15	Flush Buttons	CH688-ND◆	17.09	15.20	12.66	10.45	PAGA-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH689-ND◆	16.71	14.86	12.38	10.22	PAGE-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH690-ND◆	16.71	14.86	12.38	10.22	PAGN-3114
Right End Caps for PA Switches					CH188-ND◆	.78	.70	.58	.51	0609-0799
Left End Caps for PA Switches					CH189-ND◆	.78	.70	.58	.51	0609-0801
Spacer .100" (2.54mm) PA Blank Black Matte					CH679-ND	1.19	1.06	.99	.84	0609-0803
PB Pushwheel — "Dustproof" Front Mount — RoHS Compliant										
1B	BCD	10	0-9	—	CH185-ND	11.29	10.04	8.36	—	PBC1-E015
Right End Caps for PB Switches					CH194-ND	.78	.70	.58	.51	0609-1347
Left End Caps for PB Switches					CH195-ND	.78	.70	.58	.51	0609-1346
Spacer .100" (2.54mm) for PB Series Black					CH680-ND	1.19	1.06	.99	.84	0609-1348
PE Pushwheel — RoHS Compliant										
1C	Decimal	10	0-9	Extended Buttons	CH239-ND	22.76	20.24	16.86	13.91	PEAA-3000
	BCD	10	0-9	Extended Buttons	CH181-ND	22.22	19.76	16.46	13.58	PECA-3000
	Hex	16	0-15	Extended Buttons	CH240-ND	30.62	27.22	22.68	18.72	PEGA-3000
	Hex	16	0-9, A-F	Extended Buttons	CH281-ND	30.24	26.88	22.40	18.48	PEHA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH183-ND	28.13	25.01	20.84	17.20	PECA-4000
Right End Caps for PE Switches					CH190-ND	.78	.70	.58	.51	0609-0756
Left End Caps for PE Switches					CH191-ND	.78	.70	.58	.51	0609-0754
Spacer .300" (7.62mm) PE Blank Black Matte					CH677-ND	1.19	1.06	.99	.84	0609-0752
T57 Pushwheel — Back Mount										
2	Decimal	10	0-9	Not for new designs	CH242-ND	14.50	12.89	10.74	9.40	0T57-01M0
L20 Leverwheel										
3	Decimal	10	0-9	Not recommended	CH233-ND	16.28	14.48	12.06	10.56	0L20-01A0
	Decimal	10	0-9	for new designs	CH234-ND	16.82	14.96	12.46	10.91	0L20-01M0

◆ ***RoHS Compliant*** **NOTE: PAGA:** QC terminal **PAGE:** Right angle header **PAGN:** Locking right angle header.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Cherry Part No.
Connectors — RoHS Compliant						
4	Connector for PA Series BCD/HEX, PC Mount Terminal	CH271-ND	4.81	4.28	3.39	C2KO-P107
	Connector for PE Series BCD/HEX, PC Mount Terminal	CH274-ND	5.13	4.56	3.61	C2RO-P111
	Connector for PE Series BCD/HEX Solder Eyelet Terminal	CH681-ND	5.13	4.56	3.61	C2RFN116

Fig. 1 – PA, PB and PE Series

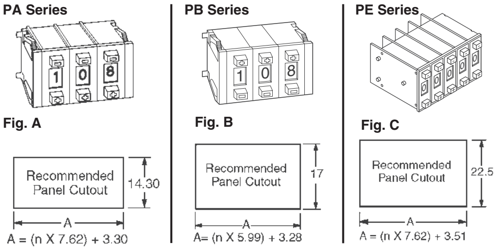

Each digit is a separate module. Combine each module to make a final unit, as shown.

Fig. 2 – T57

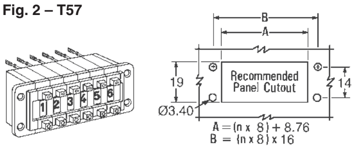

Each digit is a separate module. Combine each module to make a final unit, as shown.

Fig. 3 – L20 (Right and Left End Caps)

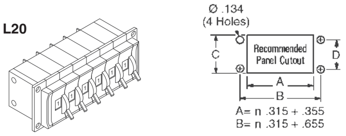

Each digit is a separate module. Combine each module to make a final unit, as shown.

Model	A	B	C	D
L20	(n x 12.70) = 10.29	(n x 12.70) + 15.11	24.89	22.86

Fig. 4 – Connectors

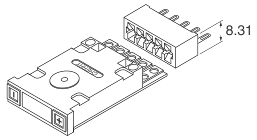

I

NKK SWITCHES

Series FM Membrane Switch Keypads

Characteristics: • 1.0mm (.039") tail pitch • Actuating dome offers crisp, tactile feedback to positively indicate circuit transfer • Illuminated models feature legends on embossed keypads • Adhesive backing for easy mounting **Specifications:** • Power Level: 20mA @ 24VDC • Contact Resistance: 500Ω maximum (10mA @ 10VDC) • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 250VAC minimum, for one minute minimum • Operational Life: 1,000,000 operations minimum • Contact Timing: 10 milliseconds maximum • Operating Temperature: -15°C ~ 50°C **LED Specifications:** • Forward Voltage: 2.1V • Forward Current: 20mA **Connectors:** • Recommended for 5 pin: FCI SLW5R-5C7LF and SLW5R-5C7LF • Recommended for 8 pin: FCI SLW8R-5C7LF and SLW8S-5C7LF • 1 connector required for Non-illuminated • 2 connectors required for Dot with Overlay
Note: • 4-Key Keypads have 5 pins • 12-Key and 16-Key Keypads have 8 pins

Fig.	Illumination	No. of Keys	Surface Sheet	Digi-Key Part No.	Price Each	NKK Part No.
1	Non-illuminated	4	Black	360-2294-ND	18.90	FMBN04BD
	Non-illuminated	4	Gray	360-2295-ND	18.90	FMBN04BE
2	Dot with Overlay	12	Gray	360-2298-ND	36.08	FMBP12BF
3	Non-illuminated	16	Black	360-2296-ND	25.00	FMBN16BD
	Non-illuminated	16	Gray	360-2297-ND	25.00	FMBN16BE
	Dot with Overlay	16	Gray	360-2299-ND	41.80	FMBP16BF

Description	Digi-Key Part No.	Pricing 1	25	100	FCI Part No.
FCI Mating Connectors					
Right Angle Connector, 5 contacts	609-3451-ND	.44	5.25	16.79	SLW5R-5C7LF
Straight Connector, 5 Contacts	609-3452-ND	.47	5.60	18.24	SLW5S-5C7LF
Right Angle Connector, 8 Contacts	609-3453-ND	.47	5.51	17.95	SLW8R-5C7LF
Straight Connector, 8 Contacts	609-3454-ND	.55	6.78	21.90	SLW8S-5C7LF

Fig. 1

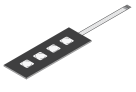

Fig. 2

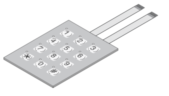

Fig. 3

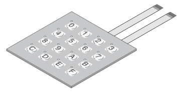

OMRON Thumbwheel Switches

Dim. in mm

Fig. 1

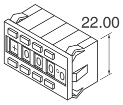

Fig. 2

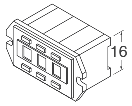

Fig. 3

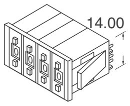

Each digit is a separate module. Combine each module to make a final unit, as shown above.

A7B Series:

Features: • Dustproof construction ensures highly reliable performance at low voltage and very small current even under adverse environmental conditions • Switch units can be assembled simply by fitting the integral hook coupler of each unit into the mating unit, thus eliminating the need of nuts and bolts for assembly • Switch assembly can be mounted easily by merely pushing the assembly into the mounting panel cutout from front

A7CN Series:

Features: • Designed specially for printed circuit boards • The transparent window plate fitted in the readout section prevents the ingress of dust and also protects dial characters against wear by incorrect handling • Switch units can be assembled simply by fitting the integral hook coupler of each unit, into the mating unit, thus eliminating the need of nuts and bolts for assembly

A7D Series:

Features: • Cost effectiveness and improved reliability achieved through insert-molding and fewer component parts • Plastic spring with minimal fatigue and a mechanical service life of 30,000 operations

Fig.	Output	No. of Positions	Color	Digi-Key Part No.	Price Each			Omron Part No.
					1	25	50	
1	BCD	0 ~ 9	Black Gloss	SW266-ND	10.86	9.78	8.70	A7BS-206-1
	BCD	0 ~ 9	Black Gloss	SW267-ND	10.86	9.78	8.70	A7BS-206-S-1
	BCD with External Board	0 ~ 9	Black Gloss	SW268-ND	11.70	10.53	9.36	A7BS-207-1
	+, - Display Only	+, -	Black Gloss	SW269-ND	13.99	12.60	11.20	A7BS-207-PM-1
—	Connector for A7BS Series, Solder Terminal with Mount Ears			SW270-ND	6.37	5.74	5.10	A7B-C
	End Caps for A7BS Series, Left/Right (2 Pieces)			SW271-ND	1.76	1.59	1.41	A7B-M-1
	Spacer for A7BS Series, Black No Marking			SW272-ND	.98	.88	.79	A7B-PA-1
2	BCD (Back Mount)	0 ~ 9	Black Gloss	SW273-ND	8.69	7.82	6.95	A7CN-106-1
	BCD (Front Mount)	0 ~ 9	Black Gloss	SW274-ND	8.69	7.82	6.95	A7CN-206-1
—	End Caps for A7CN Series, Back Mount Only			SW275-ND	1.06	.96	.85	A7CN-1M-1
	End Caps for A7CN Series, Front Mount Only			SW277-ND	1.06	.96	.85	A7CN-2M-1
3	BCD (Back Mount)	0 ~ 9	Black Gloss	SW279-ND	6.71	6.04	5.37	A7D-106-1
	BCD (Front Mount)	0 ~ 9	Black Gloss	SW280-ND	6.71	6.04	5.37	A7D-206-1
	BCD (Back Mount)	0 ~ 9	Light Gray	SW504-ND	6.71	6.04	5.37	A7D-106
	BCD (Front Mount)	0 ~ 9	Light Gray	SW505-ND	6.71	6.04	5.37	A7D-206
—	End Caps for A7D Series, Back Mount Only, Black			SW281-ND	1.04	.94	.84	A7D-1M-1
	End Caps for A7D Series, Front Mount Only, Black			SW282-ND	1.03	.93	.83	A7D-2M-1
	Spacer for A7D Series, Back Mount Only, Black			SW283-ND	1.04	.94	.84	A7D-1PA-1
	Spacer for A7D Series, Front Mount Only, Black			SW284-ND	1.06	.96	.85	A7D-2PA-1
	End Caps for A7D Series, Back Mount Only, Light Gray			SW506-ND	1.04	.94	.84	A7D-1M
	End Caps for A7D Series, Front Mount Only, Light Gray			SW508-ND	.98	.88	.79	A7D-2M
	Spacer for A7D Series, Back Mount Only, Light Gray			SW507-ND	1.04	.94	.84	A7D-1PA

C&K Thumbwheel Switches

Features: • Most complete product offering in the industry • Spacers available to fit most panel cutouts • Front or rear mounting options **Note:** End caps sold separately.

Dim. in mm

Fig. 1 — Series 3

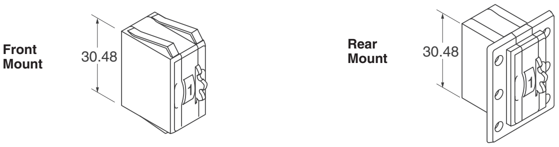

Front Mount

Rear Mount

Fig. 2 — Series 3P

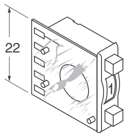

Fig.	Description	No. of Positions	Color	Termination	Digi-Key Part No.	Price Each			C&K Part No.
						1	25	100	
1	Decimal Output, Front Mount	0 ~ 9	Black Gloss	Short PC Board	CKN5013-ND◆	11.98	10.35	8.72	301109000
	BCD Output, Front Mount	0 ~ 9	Black Gloss	Short PC Board	CKN5014-ND◆	11.98	10.35	8.72	302109000
	BCD Output, Front Mount	0 ~ 9	Black Gloss	Extended PC Board	CKN5035-ND◆	15.04	13.00	10.94	302109100
	Resistor Decade Output, Front Mount	0 ~ 9	Black Gloss	Extended PC Board	CKN10077-ND◆ ***NEW!***	20.51	16.41	13.00	301409100
	Resistor Decade Output, Front Mount, Sealed Contacts/Lens	0 ~ 9	Black Gloss	Extended PC Board	CKN9643-ND◆ ***NEW!***	38.95	31.17	24.67	301409103
	BCD Complement, Front Mount, Dust Lens	0 ~ 9	Black Gloss	Extended PC Board	CKN9644-ND◆ ***NEW!***	22.58	18.07	14.30	302309102
	BCD Output, Front Mount, Sealed contacts	0 ~ 9	Black Gloss	Extended PC Board	CKN9646-ND◆ ***NEW!***	37.06	29.65	23.47	303109101
	BCD Output, Front Mount	0 ~ 9	Black Gloss	PC Pins	CKN1865-ND◆	18.11	15.64	13.17	302109N00
	BCD Complement, Front Mount	0 ~ 9	Black Gloss	Short PC Board	CKN5037-ND◆	11.98	10.35	8.72	302309000
	BCH Output, Front Mount	0 ~ 16	Black Gloss	Short PC Board	CKN5038-ND◆	24.05	20.77	17.49	307109000
	Decimal Output, Rear Mount	0 ~ 9	Black Gloss	Short PC Board	CKN1186-ND◆	11.98	10.35	8.72	301119000
	BCD Output, Rear Mount	0 ~ 9	Black Gloss	Short PC Board	CKN1187-ND◆	11.98	10.35	8.72	302119000
	BCD Output, Rear Mount	0 ~ 9	Black Gloss	Extended PC Board	CKN5039-ND◆	15.04	13.00	10.94	302119100
	BCD Output, Rear Mount	0 ~ 9	Black Gloss	PC Pins	CKN1866-ND◆	18.11	15.64	13.17	302119N00
	BCD Complement, Rear Mount	0 ~ 9	Black Gloss	Short PC Board	CKN5041-ND◆	11.98	10.35	8.72	302319000
	BCD Complement, Rear Mount, Sealed Contacts/Lens	0 ~ 9	Black Gloss	Short PC Board	CKN9645-ND◆ ***NEW!***	34.77	27.82	22.03	302329003
	BCD Output, Front Mount, 2 Switch Sections	0 ~ 9	Black Gloss	Short PC Board	CKN9647-ND◆ ***NEW!***	45.07	36.06	28.55	322100000
	BCD Output, Rear Mount, 3 Switch Sections	0 ~ 10	Black Gloss	PC Pins	CKN10234-ND◆ ***NEW!***	86.48	69.19	54.78	332710P00
	BCH Output, Rear Mount	0 ~ 16	Black Gloss	Short PC Board	CKN5042-ND◆	24.05	20.77	17.49	307119000
—	Stop Pin for Series 3 Thumbwheel				CKN10078-ND◆ ***NEW!***	.35	.28	.23	402900000
	Female Header for Series 3 with PC Board Termination				CKN1752-ND	28.23	19.89	17.97	605A00000
	Front Mounted End Cap for Series 3 (2 required)				CKN5015-ND	2.00	1.60	1.27	413402000
	Front Mounted Spacer for Series 3 (optional)				CKN5016-ND	2.46	1.97	1.56	413502000
	Rear Mounted End Cap for Series 3 (2 required)				CKN5017-ND	.90	.72	.57	400402003
	Rear Mounted Spacer for Series 3 (optional)				CKN5018-ND	1.85	1.49	1.18	400802000
	Rod Assembly for 1 Module (Series 3)				CKN5019-ND	3.00	2.40	1.90	412707000
	Rod Assembly for 2-4 Modules (Series 3)				CKN5020-ND	3.39	2.72	2.15	412701000
	Rod Assembly for 5-7 Modules (Series 3)				CKN5021-ND	3.43	2.75	2.17	412702000
	Fastener Nut for Rod Assemblies (Series 3)				CKN5023-ND	.29	.24	.19	403500000
	Nut Driver hand tool for CKN5023-ND Fasteners				CKN5024-ND*	7.85	6.79	5.72	406100652
2	BCD type with Straight Board, Front Mount	0 ~ 9	Black Matte	Short PC Board	CKN5029-ND◆	10.93	9.45	7.96	3P0210000
	BCD Output with Dust Lens, Front Mount	0 ~ 9	Black Matte	Short PC Board	CKN5044-ND◆	11.38	9.83	8.28	3P0210002
	BCD Output with Dust Lens, Front Mount	0 ~ 9	Black Matte	Extended PC Board	CKN5045-ND◆	12.29	10.62	8.94	3P0210102
—	Left End Cap for 3P Series				CKN5031-ND	.62	.50	.40	623502000
	Right End Cap for 3P Series				CKN5032-ND	.59	.48	.38	623602000

***** Xcelite hand tool ◆ ***RoHS Compliant***

APM HEXSEAL

Rotary Shaft Seals

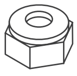

APM's rotary switch and potentiometer seals surround the shaft and forms a watertight and dust tight seal against the shaft and front panel surface. Color: Gray. UL and CSA recognized.

Thread Size	Max. Shaft Size Inch (mm)	Hex Nut Flat Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
1/4-28NF-2B	.125 (3.18)	.375 (9.53)	335-1014-ND	3.54	2.84	2.25	N9042X1/8
1/4-32NEF-2B	.125 (3.18)	.375 (9.53)	335-1020-ND	3.54	2.84	2.25	N9040x1/8
3/8-32NEF-2B	.250 (6.35)	.500 (12.70)	335-1016-ND	3.54	2.84	2.25	N9030x1/4

Transparent Rocker Switch Seals

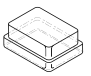

Seals without compromising switch operation, position status viewing or legend visibility. UL and CSA recognized.

Maximum Actuator Length Inch (mm)	Maximum Actuator Width Inch (mm)	Maximum Above Panel Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
.750 (19.05)	.531 (13.49)	.228 (5.79)	335-1011-ND	2.28	1.83	1.45	C1113/66(Clear)
1.093 (27.78)	.515 (13.10)	.297 (7.54)	335-1033-ND	2.31	1.85	1.47	C1113/63
1.093 (27.78)	.968 (24.61)	.297 (7.54)	335-1032-ND	2.52	2.02	1.60	C1113/62
1.218 (30.96)	.875 (22.23)	.297 (7.54)	335-1023-ND	2.28	1.83	1.45	C1113/70
1.327 (36.51)	.703 (17.86)	.413 (10.49)	335-1034-ND	2.28	1.83	1.45	C1113/71

Toggle Switch Boots

* Half-boot

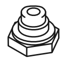

Δ Full-boot

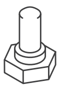

§ IQ Boot

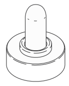

HEXSEAL toggle switch boots are molded from a high tear strength, silicon rubber bonded to a built-in mounting nut. Each encloses the base of the protruding switch bushing and forms a water and dust tight seal against the front panel surface. Meets MIL-B-5423 Specs. UL and CSA recognized.

Thread Size	Throat (I.D.) Inch (mm)	Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
1/4-40NS-2B	.047 (1.19)	.250 (6.35)	Gray	335-1006-ND*	4.62	3.70	2.93	N5032B
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Red	335-1002-NDΔ	5.79	4.64	3.67	N5030L(Red)
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Black	335-1003-NDΔ	4.62	3.70	2.93	N5030L(Black)
1/4-40NS-2B	.062 (1.57)	.390 (9.90)	Gray	335-1000-NDΔ	4.62	3.70	2.93	N-5030R
1/4-40NS-2B	.062 (1.57)	.594 (15.09)	Gray	335-1001-NDΔ	4.62	3.70	2.93	N5030S
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Gray	335-1036-NDΔ	4.62	3.70	2.93	N5030L
1/4-40NS-2B	.104 (2.64)	.422 (10.7)	Gray	335-1035-NDΔ	4.62	3.70	2.93	N5030
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Gray	335-1007-ND*	3.87	3.10	2.46	N1030B
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Black	335-1022-ND*	3.66	2.93	2.32	C1132/20
15/32-32NS-2B	.219 (5.56)	.844 (21.44)	Gray	335-1005-NDΔ	3.87	3.10	2.46	N1030
15/32-32NS-2B	.219 (5.56)	.844 (21.44)	Black	335-1109-NDΔ ***NEW!***	3.87	3.10	2.45	N1030 12
15/32-32NS-2B	.219 (5.56)	.937 (23.79)	Black	335-1037-NDΔ	3.66	2.93	2.32	C1131/28
15/32-32NS-2B	.219 (5.56)	1.093 (27.76)	Gray	335-1038-NDΔ	3.87	3.10	2.46	1131/26
15/32-32NS-2B	.250 (6.35)	.975 (24.76)	Black	335-1031-ND§	5.04	4.04	3.20	IQ1030
15/32-32NS-2B	.300 (7.62)	1.11 (28.19)	Gray	335-1039-NDΔ	3.87	3.10	2.46	50154
1/2-32NS-2B	.078 (1.98)	.437 (11.10)	Gray	335-1110-ND* ***NEW!***	3.87	3.10	2.46	N1030B 160 ID
1/2-32NS-2B	.078 (1.98)	.437 (11.10)	Black	335-1111-ND* ***NEW!***	3.87	3.10	2.46	N1030B 160 ID BLACK

Seelnut® High Pressure Self-Sealing Locking Nuts

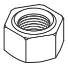

SEELNUTS are designed for use on all types of adjusting screws, threaded studs, and machine bolts in applications where leakage may occur due to extreme pressures. Their single-piece design eliminates the need for gaskets, sealing compounds and surface preparations. UL and CSA recognized.

Description	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
#6-32	335-1047-ND	3.33	2.67	2.11	6-32 AJ 6
#10-32	335-1048-ND	3.33	2.67	2.11	10-32 AJ 6
#10-24	335-1049-ND	3.33	2.67	2.11	10-24 AJ 6
1/4-20	335-1050-ND	3.69	2.96	2.34	1/4-20 AJ 6
1/4-28	335-1051-ND	3.69	2.96	2.34	1/4-28 AJ 6
5/16-18	335-1052-ND	3.69	2.96	2.34	5/16-18 AJ 6
5/16-24	335-1053-ND	3.69	2.96	2.34	5/16-24 AJ 6
3/8-16	335-1054-ND	3.90	3.12	2.47	3/8-16 AJ 6
3/8-24	335-1055-ND	3.90	3.12	2.47	3/8-24 AJ 6
7/16-20	335-1056-ND	3.90	3.12	2.47	7/16-20 AJ 6
1/2-13	335-1057-ND	3.90	3.12	2.47	1/2-13 AJ 6
1/2-20	335-1058-ND	3.90	3.12	2.47	1/2-20 AJ 6
5/8-18	335-1059-ND	4.80	3.84	3.04	5/8-18 AJ 6

Seeloc® Air & Water-Tight Bonded Self-Sealing Washers

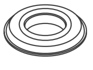

SEELOC washers are self-sealing, vibration-resistant washers, each having a silicone rubber section, molded and bonded to a stainless steel formed washer. These washers are designed for use with regular screws or bolts for sealing panels and cases having large clearance holes or slots. Upon tightening, a seal is formed under the head of the screw or bolt as well as around the periphery of the washer face. UL and CSA recognized.

Description	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
#6	335-1060-ND	3.54	2.84	2.25	75602
#8	335-1061-ND	3.54	2.84	2.25	75802
#10	335-1062-ND	3.54	2.84	2.25	75102
#1/4	335-1063-ND	3.54	2.84	2.25	75082
#5/16	335-1064-ND	3.54	2.84	2.25	75107
#3/8	335-1065-ND	3.54	2.84	2.25	75122
#7/16	335-1066-ND	3.54	2.84	2.25	75142
#1/2	335-1067-ND	3.54	2.84	2.25	75162

Panel Bushing Seal

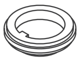

Protect and prevent seepage/leakage through switch/circuit breaker panel cutout using APM's reusable self-sealing washers. Color: Gray. UL and CSA recognized.

Compatible Switch Bushing	Washer Diameter Inch (mm)	Washer Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32	.677 (17.20)	.120 (3.05)	335-1021-ND	3.45	2.76	2.19	60064

Transparent Circuit Breaker Seals

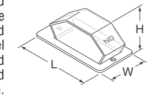

APM HEXSEAL seeling boots for lever-actuated style circuit breakers are molded from APM's proprietary RUBRGLAS™, a transparent high tear-strength silicone rubber which won't yellow or discolor. Each boot is supplied with APM's patented self-sealing SEELSKREWS to insure total sealing integrity for the breaker, its panel cutout, and the boot mounting holes. Front panel mounted boots are also supplied with a plated, steel frame. These tough, flexible boots provide a dust-tight and watertight seal without compromising breaker operation or position status viewing. Meets MIL-B-5423 specs. UL and CSA recognized.

Poles	Dimensions (mm) H	L	W	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
				Front-Panel Mounted Boots				
1	22.23	66.68	34.93	335-1024-ND	21.36	17.09	13.53	HE1015
2	22.23	66.68	56.34	335-1025-ND	25.05	20.04	15.87	HE1020
3	22.23	66.68	49.99	335-1026-ND	26.64	21.32	16.88	HE1050
3	23.42	94.44	92.86	335-1027-ND	31.32	25.06	19.84	HE1070
				Back-of-Panel Mounted Boots				
1	23.42	50.80	19.05	335-1028-ND	13.02	10.42	8.25	C1113/40
2	23.42	50.80	38.1	335-1029-ND	15.06	12.05	9.54	C1113/42
3	23.42	50.80	57.15	335-1030-ND	16.32	13.06	10.34	C1113/43

Pushbutton Switch Boots

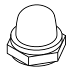

APM's sealing boots are designed to protect your switches and potentiometers from hostile environments without compromising or interfering with the switches basic function. Boots create a full environmental seal even under high-pressure washdowns. Each seal is made from a tough, high tear strength elastomer that is resistant to most chemicals, lubricants, acids and solvents. UL and CSA recognized which facilitate easier agency listings and most Hexseals meet MIL-B-5423 specs.

Thread Size	Throat Size (I.D.) Inch (mm)	Plunger Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
1/4-32NS-2B	.188 (4.77)	.203 (5.16)	Gray	335-1018-ND	4.62	3.70	2.93	N5040G
1/4-40NS-2B	.125 (3.18)	.344 (8.73)	Gray	335-1040-ND	4.62	3.70	2.93	1231/31
1/4-40NS-2B	.188 (4.77)	.141 (3.58)	Gray	335-1017-ND	4.62	3.70	2.93	N5040
1/4-40NS-2B	.188 (4.77)	.203 (5.16)	Gray	335-1019-ND	4.62	3.70	2.93	N5040R
3/8-27NS-2B	.320 (8.12)	.330 (8.38)	Gray	335-1041-ND	2.76	2.21	1.75	1221/12
3/8-27NS-2B	.320 (8.12)	.330 (8.38)	Clear	335-1042-ND	2.43	1.95	1.54	C1221/21 4
3/8-32NEF-2B	.320 (8.12)	.330 (8.38)	Clear	335-1043-ND	2.43	1.95	1.54	C1221/23
3/8-32NS-2B	.320 (8.12)	.545 (13.84)	Black	335-1045-ND	2.43	1.95	1.54	C1221/25
7/16-28UNEF-2B	.422 (10.72)	.438 (11.13)	Clear	335-1013-ND	4.83	3.87	3.06	NC303 7/16-28(CLR)
15/32-32NS-2B	.375 (9.52)	.400 (10.16)	Gray	335-1044-ND	2.94	2.36	1.87	1221/15
15/32-32NS-2B	.422 (10.72)	.281 (7.14)	Gray	335-1009-ND	3.87	3.10	2.46	N3030
15/32-32NS-2B	.422 (10.72)	.438 (11.13)	Gray	335-1008-ND	3.87	3.10	2.46	NC3030
15/32-32NS-2B	.422 (10.71)	.438 (11.12)	Clear	335-1010-ND	4.83	3.87	3.06	NC3030(CLEAR)
1/2-32NS-2B	.422 (10.71)	.281 (7.13)	Gray	335-1046-ND	4.05	3.24	2.57	NH3030

Seelskrew® Reusable High Pressure Self-Sealing Screw

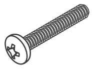

SEELSKREWS are designed to seal in/out air, water, and other liquid or gaseous contaminants to 20,000psi. Reusable, stainless-steel with integral silicone O-Ring seal. Ideal for control panels & other electrical equipment applications. UL and CSA recognized.

Description	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
1/4-20 x 3/8	335-1068-ND	1.14	.92	.73	R1/4-20X3/8
1/4-20 x 7/16	335-1069-ND	1.17	.94	.75	R1/4-20X7/16
1/4-20 x 1/2	335-1070-ND	1.20	.96	.76	R1/4-20X1/2
1/4-20 x 5/8	335-1071-ND	1.29	1.04	.82	R1/4-20X5/8
1/4-20 x 3/4	335-1072-ND	1.38	1.11	.88	R1/4-20X3/4
1/4-20 x 7/8	335-1073-ND	1.47	1.18	.94	R1/4-20X7/8
1/4-20 x 1	335-1074-ND	1.56	1.25	.99	R1/4-20X1
10-32 x 3/8	335-1075-ND	.69	.56	.44	R10-32X3/8
10-32 x 7/16	335-1076-ND	.72	.58	.46	R10-32X7/16
10-32 x 1/2	335-1077-ND	.75	.60	.48	R10-32X1/2
10-32 x 5/8	335-1078-ND	.84	.68	.54	R10-32X5/8
10-32 x 3/4	335-1079-ND	.90	.72	.57	R10-32X3/4
10-32 x 7/8	335-1080-ND	.99	.80	.63	R10-32X7/8
10-32 x 1	335-1081-ND	1.05	.84	.67	R10-32X1
4-40 x 1/4	335-1082-ND	.54	.44	.35	R4-40X1/4
4-40 x 5/16	335-1083-ND	.54	.44	.35	R4-40X5/16
4-40 x 3/8	335-1084-ND	.57	.46	.37	R4-40X3/8
4-40 x 7/16	335-1085-ND	.54	.44	.35	R4-40X7/16
4-40 x 1/2	335-1086-ND	.57	.46	.37	R4-40X1/2
4-40 x 5/8	335-1087-ND	.60	.48	.38	R4-40X5/8
4-40 x 3/4	335-1088-ND	.63	.51	.40	R4-40X3/4
4-40 x 7/8	335-1089-ND	.66	.53	.42	R4-40X7/8
4-40 x 1	335-1090-ND	.72	.58	.46	R4-40X1
6-32 x 1/4	335-1091-ND	.54	.44	.35	R6-32X1/4
6-32 x 5/16	335-1092-ND	.57	.46	.37	R6-32X5/16
6-32 x 3/8	335-1093-ND	.57	.46	.37	R6-32X3/8
6-32 x 7/16	335-1094-ND	.60	.48	.38	R6-32X7/16
6-32 x 1/2	335-1095-ND	.60	.48	.38	R6-32X1/2
6-32 x 5/8	335-1096-ND	.63	.51	.40	R6-32X5/8
6-32 x 3/4	335-1097-ND	.66	.53	.42	R6-32X3/4
6-32 x 7/8	335-1098-ND	.66	.53	.42	R6-32X7/8
6-32 x 1	335-1099-ND	.72	.58	.46	R6-32X1
8-32 x 1/4	335-1100-ND	.60	.48	.38	R8-32X1/4
8-32 x 5/16	335-1101-ND	.60	.48	.38	R8-32X5/16
8-32 x 3/8	335-1102-ND	.63	.51	.40	R8-32X3/8
8-32 x 7/16	335-1103-ND	.63	.51	.40	R8-32X7/16
8-32 x 1/2	335-1104-ND	.66	.53	.42	R8-32X1/2
8-32 x 5/8	335-1105-ND	.69	.56	.44	R8-32X5/8
8-32 x 3/4	335-1106-ND	.75	.60	.48	R8-32X3/4
8-32 x 7/8	335-1107-ND	.78	.63	.50	R8-32X7/8
8-32 x 1	335-1108-ND	.72	.58	.46	R8-32X1

Toggle Switches

Contact Material Options

B **Contacts and Terminals:** Copper alloy, with gold plate over nickel plate. **Rating:** 0.4 VA maximum @ 20VAC or DC maximum

Q **End Contacts:** Coin silver, silver plated. **Center Contact and All Terminals:** Copper alloy, silver plated. **Rating:** 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 28VDC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G **End Contacts:** Coin silver, with gold plate over nickel plate. **Center Contact and All Terminals:** Copper alloy, with gold plate over nickel plate. **Rating:** 0.4 VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

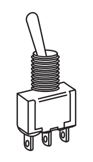

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
		Actuator	Bushing	Termi-nation				1	25	100	
						Vertical					
SPDT	On-On	S	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9678-ND ***NEW!***	5.75	4.60	3.65	7101SD8ZQE
	On-On	S	D	C	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9679-ND ***NEW!***	6.53	5.23	4.14	7101SDCGE
	On-On	S	D9	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1002-ND	5.91	4.73	3.75	7101SD9CQE
	On-On	S	Y	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1003-ND	6.00	4.81	3.81	7101SYCBE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1004-ND	5.91	4.73	3.75	7101SYCQE
	On-On	S	H3	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1020-ND	7.61	6.10	4.83	7101SH3ZQE
	On-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1021-ND	5.84	4.68	3.71	7101SYZBE
	On-On	S	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1022-ND	6.37	5.10	4.04	7101SYZGE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1023-ND	5.75	4.60	3.65	7101SYZQE
	On-On	SP	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9943-ND ***NEW!***	7.42	5.94	4.71	7101SPYZQE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1014-ND†	5.91	4.73	3.75	U11SYCQE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1040-ND†	5.75	4.60	3.65	U11SYZQE
	On-Off-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1005-ND	6.49	5.19	4.11	7103SYCQE
	On-Off-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1025-ND	6.42	5.14	4.07	7103SYZBE
	On-Off-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1026-ND	6.33	5.07	4.01	7103SYZQE
	On-Off-On	SP	CW	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10175-ND ***NEW!***	10.30	8.24	6.53	7103SPCWZGE
	On-Off-On	SP	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9694-ND ***NEW!***	10.77	8.62	6.83	7103SPCWZQES
	On-Off-On	S	Y	W3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9695-ND ***NEW!***	6.94	5.56	4.40	7103SYW3BE
	On-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1008-ND	6.62	5.30	4.19	7107SYCQE
	On-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1028-ND	6.46	5.17	4.09	7107SYZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1007-ND	6.62	5.30	4.19	7105SYCQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1027-ND	6.46	5.17	4.09	7105SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9706-ND ***NEW!***	6.55	5.25	4.15	7105SYZBE
	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1029-ND	6.46	5.17	4.09	7108SYZQE
	On-On	S	Y	W6	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1213-ND	7.42	5.94	4.71	7101SYW6BE
	On-On	S	Y	W	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1379-ND	6.36	5.09	4.03	7101SYWBE
	On-On	S	Y	W	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1381-ND	6.26	5.01	3.97	7101SYWQE
	On-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1091-ND	6.16	4.93	3.91	T101SHCQE
	On-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1066-ND	6.36	5.09	4.03	T101SHZQE
	On-On	L1	H9	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9896-ND ***NEW!***	6.20	4.96	3.93	T101L1H9CQE
	On-On	L	TD	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9897-ND ***NEW!***	6.16	4.93	3.91	T101LTDCQE
	On-On	M	CF	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9898-ND ***NEW!***	7.96	6.37	5.04	T101MCFCQE
	On-On	M	H	C	G	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9900-ND ***NEW!***	6.84	5.48	4.34	T101MHCGE
	On-Off	S	H	Z	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1549-ND	7.59	6.08	4.81	T102SHZQE
	On-Off	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN10151-ND ***NEW!***	7.39	5.92	4.69	T102SHCQE
	On-Off-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1092-ND	7.39	5.92	4.69	T103SHCQE
	On-Off-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1087-ND	7.59	6.08	4.81	T103SHZQE
	On-Off-On	L	TD	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9901-ND ***NEW!***	7.59	6.08	4.81	T103LTDZQE
	Mom-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1088-ND	7.59	6.08	4.81	T105SHZQE
	Mom-Off-Mom	L	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9902-ND ***NEW!***	7.59	6.08	4.81	T105LHZQE
	Mom-Off-Mom	L	Y9	C	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9903-ND ***NEW!***	7.53	6.03	4.77	T105LY9CBE
	On-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1181-ND	7.86	6.29	4.98	T107SHZQE
	On-Off-Mom	M	H	Z	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9904-ND ***NEW!***	7.99	6.40	5.07	T107MHZBE
	On-Off-Mom	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9905-ND ***NEW!***	7.66	6.13	4.85	T107SHCQE
	On-On	SP	CW	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10173-ND ***NEW!***	9.72	7.78	6.16	7101SPCWZGE
	On-On	SP	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9680-ND ***NEW!***	8.61	6.90	5.46	7101SPHZQE
	On-On	M	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10171-ND ***NEW!***	7.58	6.07	4.81	7101MCWCQE
	On-On	M	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1000-ND	5.91	4.73	3.75	7101MDCQE
	On-On	M	D	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9672-ND ***NEW!***	6.00	4.81	3.81	7101MDCBE
	On-On	M	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1016-ND	5.75	4.60	3.65	7101MDZQE
	On-On	M	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1017-ND	5.75	4.60	3.65	7101MYZQE
	On-On	M	Y9	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9673-ND ***NEW!***	5.75	4.60	3.65	7101MY9ZQE
	On-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1042-ND	7.26	5.81	4.60	7101MD9V3BE
	On-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1175-ND	7.16	5.74	4.54	7101MD9V3QE
	On-Off-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1169-ND	7.84	6.28	4.97	7103MD9V3BE
	On-Off-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1176-ND	7.74	6.20	4.91	7103MD9V3QE
	On-Off-On	M	H	C	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9689-ND ***NEW!***	8.30	6.65	5.26	7103MHCGE
	Mom-Off-Mom	M	H	C	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9701-ND ***NEW!***	8.43	6.75	5.34	7105MHCGE
	On-Mom	M	H	C	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9715-ND ***NEW!***	8.43	6.75	5.34	7108MHCGE
	Mom-Off-Mom	M	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9702-ND ***NEW!***	6.46	5.17	4.09	7105MYZQE
	On-On	S	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1043-ND	7.26	5.81	4.60	7101SD9V3BE
	Mom-Off-Mom	TP	—	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10177-ND ***NEW!***	13.34	10.68	8.46	7105TPV3BE
	On-On	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1001-ND	8.00	6.41	5.07	7101P3YCQE
	On-On	P3	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1018-ND	7.94	6.35	5.03	7101P3YZBE
	On-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1019-ND	7.84	6.28	4.97	7101P3YZQE
	On-On	P3	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10172-ND ***NEW!***	7.84	6.28	4.97	7101P3DZQE
	On-On	P3	H	W	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10084-ND ***NEW!***	9.55	7.64	6.05	7101P3HWQE
	On-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9676-ND ***NEW!***	11.28	9.03	7.15	7101P3YZQE22
	On-Off-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1024-ND	8.42	6.74	5.34	7103P3YZQE
	On-Off-On	P3	D9	V4	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9690-ND ***NEW!***	11.55	9.24	7.32	7103P3D9V4GES
	On-Off-On	P3	Y	W4	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9691-ND ***NEW!***	9.80	7.85	6.21	7103P3YW4BE
	On-Off-On	P3	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9692-ND ***NEW!***	9.04	7.24	5.73	7103P3YZGE
	On-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1142-ND	8.55	6.84	5.42	7107P3YZQE
	On-Mom	P3	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9717-ND ***NEW!***	9.17	7.34	5.81	7108P3YZGE
	On-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1143-ND	8.55	6.84	5.42	7108P3YZQE
	Mom-Off-Mom	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1006-ND	8.71	6.97	5.52	7105P3YCQE
	On-On	P4	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9677-ND ***NEW!***	11.38	9.11	7.21	7101P4YZBE22
	On-On	K2	—	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1215-ND	10.03	8.03	6.36	7101K2CBE
	On-On	K2	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1216-ND	9.93	7.95	6.30	7101K2CQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1125-ND	9.77	7.82	6.19	7101K2ZQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1126-ND†	9.77	7.82	6.19	U11K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1151-ND	10.35	8.28	6.56	7103K2ZQE

† UL Approved   **Note:** All threaded bushings include mounting hardware.

(Continued)

Actuator Options

K Locking Lever

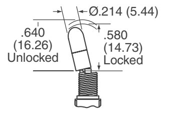

K1 Locking Lever

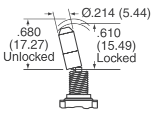

K2 Locking Lever

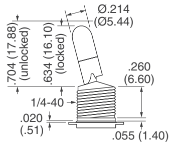

K12 Locking Lever

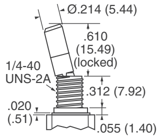

L

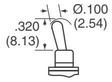

L1

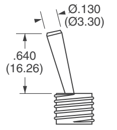

L41

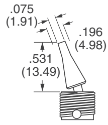

Plastic lever handle anti-rotation

M

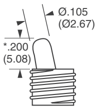

* Add .070 (1.78) for D, D9 bushings.

P3, P4 Anti-rotation

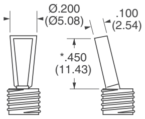

* Add .070 (1.78) for D, D9 bushings.

S, SP

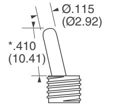

* Add .070 (1.78) for D, D9 bushings.
* Subtract .020 (.51) for H3 bushings.

T
T1 = .487” High

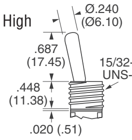

TP ***NEW!***

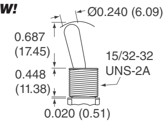

T2P ***NEW!***

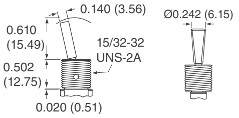

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
		Actuator	Bushing	Termination				1	25	100	
SPDT	Mom-Off-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1152-ND	10.48	8.39	6.64	7105K2ZQE
	Mom-Off-Mom	K2	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9700-ND ***NEW!***	10.64	8.52	6.74	7105K2CQE
	On-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1147-ND	5.75	4.60	3.65	7101L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1148-ND	6.33	5.07	4.01	7103L1YZQE
	On-On	L41(Blk.)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1220-ND	8.16	6.53	5.17	7101L41YZQE2
	On-On	L41(Red)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1221-ND	8.16	6.53	5.17	7101L41YZQE3
	On-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1212-ND	9.77	7.82	6.19	7101K12ZQE
	On-Off-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1155-ND	10.35	8.28	6.56	7103K12ZQE
	Mom-Off-Mom	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1156-ND	10.48	8.39	6.64	7105K12ZQE
	On-Mom	K12	—	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9714-ND ***NEW!***	11.10	8.88	7.03	7108K12ZGE
	On-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1164-ND	8.87	7.10	5.62	7101TZQE
	On-Off-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1165-ND	9.45	7.56	5.99	7103TZQE
	On-Off-On	T1	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9696-ND ***NEW!***	11.12	8.90	7.05	7103T1CWZQE
	On-Off-On	T	—	V3	B	500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9944-ND ***NEW!***	10.96	8.77	6.95	7103TV3BE
	On-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1159-ND	7.42	5.94	4.71	7101SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1160-ND	8.00	6.41	5.07	7103SCWZQE
	Mom-Off-Mom	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1161-ND	8.13	6.51	5.15	7105SCWZQE
	On-None-Mom	T	CW	V81	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9945-ND ***NEW!***	13.81	11.05	8.75	7108TCWV81GE
	On-On	K2	—	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1442-ND	10.39	8.32	6.59	7101K2ZGE
	On-On	K2	—	C	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9670-ND ***NEW!***	10.55	8.45	6.69	7101K2CGE
	On-On	K2	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9671-ND ***NEW!***	11.45	9.16	7.25	7101K2CWZQE
	On-On	P3	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1444-ND	8.00	6.41	5.07	7101P3DCQE
	On-None-On	P4	D9	V31	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9942-ND ***NEW!***	9.87	7.90	6.25	7101P4D9V31BE
	On-On	P3	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1445-ND	9.03	7.23	5.72	7101P3HZQE
	Mom-Off-Mom	P3	Y	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9703-ND ***NEW!***	8.81	7.05	5.58	7105P3YCBE
	Mom-Off-Mom	P4	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9704-ND ***NEW!***	8.55	6.84	5.42	7105P4YZQE
	On-On	S	D9	V3	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1448-ND	7.79	6.23	4.94	7101SD9V3GE
	On-On	S	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1449-ND	7.16	5.74	4.54	7101SD9V3QE
	On-On	S	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1451-ND	5.91	4.73	3.75	7101SDCQE
	On-On	S	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1453-ND	6.94	5.56	4.40	7101SHZQE
	On-On	S	Y9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9681-ND ***NEW!***	7.16	5.74	4.54	7101SY9V3QE
	On-On	S	Y	W5	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9682-ND ***NEW!***	7.04	5.63	4.46	7101SYW5QE
	On-On	S	Y9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1455-ND	7.26	5.81	4.60	7101SY9V3BE
	On-On	T1	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1459-ND	10.70	8.57	6.78	7101T1CWCQE
	On-On	T1	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9683-ND ***NEW!***	10.55	8.44	6.68	7101T1CWZQE
	On-On	T2P	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9684-ND ***NEW!***	11.12	8.90	7.05	7101T2PZQE
	On-On	T	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN10174-ND ***NEW!***	10.55	8.44	6.68	7101TCWZQE
	On-On	T	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1460-ND	9.03	7.23	5.72	7101TCQE
	On-On	T	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1461-ND	10.70	8.57	6.78	7101TCWCQE
	On-Off-On	S	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1462-ND	8.16	6.53	5.17	7103TCWCQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1465-ND	8.55	6.84	5.42	7105P3YZQE
	Mom-Off-Mom	T1	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1466-ND	9.58	7.67	6.07	7105T1ZQE
	Mom-Off-Mom	T	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1467-ND	11.25	9.01	7.13	7105TCWZQE
	Mom-Off-Mom	T	CW	W3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9707-ND ***NEW!***	11.86	9.49	7.52	7105TCWW3BE
	Mom-Off-Mom	T	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9708-ND ***NEW!***	11.54	9.24	7.31	7105TCWZ3QE
	Mom-Off-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1468-ND	9.58	7.67	6.07	7105TZQE
	On-Off-Mom	SP	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9712-ND ***NEW!***	9.32	7.46	5.91	7107SPHZQE
	On-Off-Mom	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1470-ND	6.55	5.25	4.15	7107SYZBE
	On-Off-Mom	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9711-ND ***NEW!***	8.13	6.51	5.15	7107SCWZQE
	On-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1471-ND	10.48	8.39	6.64	7108K2ZQE
	On-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1473-ND	6.62	5.30	4.19	7108SYCQE
	On-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1474-ND	9.58	7.67	6.07	7108TZQE
	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1475-ND	6.62	5.30	4.19	7109SYZQE
	On-On	M	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1515-ND	6.17	4.94	3.91	E101MD1CBE
	On-On	M	D1	V3	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1516-ND	7.95	6.37	5.04	E101MD1V3BE
	Mom-Off-Mom	M	D1	V3	B	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN10102-ND ***NEW!***	9.16	7.33	5.81	E105MD1V3BE
	On-On	S	D1	C	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1518-ND	6.70	5.36	4.25	E101SD1CGE
	On-On	S	D1	A	Q	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN9847-ND ***NEW!***	6.69	5.35	4.24	E101SD1AQE
	On-On	S	D1	V3	Q	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN9848-ND ***NEW!***	7.86	6.29	4.98	E101SD1V3QE
	On-Off-On	S	D1	V3	B	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN10101-ND ***NEW!***	9.16	7.33	5.81	E103SD1V3BE
	On-Off-On	S	Y	Z	G	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN9850-ND ***NEW!***	7.74	6.19	4.91	E103SYZGE
	Mom-Off-Mom	S	Y	C	B	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN9852-ND ***NEW!***	7.37	5.90	4.67	E105SYCBE
	On-On	S	Y	Z	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1519-ND	5.90	4.73	3.74	E101SYZQE
	On-On	L	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1527-ND	6.74	5.40	4.28	ET01LD1CBE
	On-On	M	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1530-ND	6.74	5.40	4.28	ET01MD1CBE
	Mom-Off-Mom	S	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1536-ND	7.59	6.08	4.81	ET05SD1CBE
	Mom-Off-Mom	S	D1	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1537-ND	8.21	6.57	5.20	ET05SD1V3BE
	On-On	M	H9	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1546-ND	6.30	5.04	3.99	T101MH9CBE
	On-On	M	H9	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1547-ND	6.86	5.50	4.35	T101MH9V3BE
	On-Off-On	M	H9	V3	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1551-ND	8.09	6.48	5.13	T103MH9V3BE
	On-Mom	S	H	Z	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1554-ND	7.86	6.29	4.98	T108SHZQE
DPDT	On-On	K	—	Z	G	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9906-ND ***NEW!***	18.79	15.04	11.91	T201KZGE
	On-On	S	Y	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1010-ND	8.93	7.15	5.66	7201SYCBE
	On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1011-ND	8.75	7.00	5.55	7201SYCQE
	On-On	S	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1034-ND	8.68	6.95	5.50	7201SYZBE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1035-ND	8.49	6.80	5.38	7201SYZQE
	On-On	S	Y	W	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1382-ND	9.46	7.57	5.99	7201SYWQE
	On-Off-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1012-ND	9.74	7.80	6.18	7203SYCQE
	On-Off-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1036-ND	9.49	7.60	6.01	7203SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1129-ND	9.49	7.60	6.01	7205SYZQE
	On-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1130-ND	9.74	7.80	6.18	7207SYZQE
	On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1131-ND	9.74	7.80	6.18	7208SYZQE
	On-Mom	P3	CW	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9764-ND ***NEW!***	13.77	11.02	8.73	7208P3CWCQE
	On-Mom	P3	Y4	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9765-ND ***NEW!***	13.67	10.94	8.67	7208P3Y4ZQE
	On-Mom	P3	Y9	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9766-ND ***NEW!***	12.10	9.68	7.67	7208P3Y9CQE
	On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1089-ND	9.99	8.00	6.33	T201SHZQE
	On-On	S	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9738-ND ***NEW!***	9.68	7.75	6.14	7201SHZQE
	On-On	S	H	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1182-ND	9.53	7.63	6.04	T201SHCQE
	On-Off-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1090-ND	11.29	9.04	7.15	T203SHZQE
	On-Off-On	M	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9747-ND ***NEW!***	10.68	8.55	6.77	7203MHZQE
	On-Off-On	P3	T	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9908-ND ***NEW!***	12.35	9.89	7.83	T203P3TCQE
	On-On	M	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1031-ND	8.49	6.80	5.38	7201MDZQE
	On-On	M	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9724-ND ***NEW!***	8.49	6.80	5.38	7201MYZQE
	On-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1170-ND	10.45	8.36	6.62	7201MD9V3BE
	On-Off-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1171-ND	11.45	9.16	7.25	7203MD9V3BE
	On-On	P3	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1032-ND	10.77	8.62	6.83	7201P3YZBE
	On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1033-ND	10.58	8.47	6.71	7201P3YZQE
	On-On	P4	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9734-ND ***NEW!***	12.26	9.81	7.77	7201P4CWZQE
	On-On	P4	D	W	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9735-ND ***NEW!***	12.46	9.97	7.90	7201P4DWGE

† UL Approved **Note:** All threaded bushings include mounting hardware.

(Continued)

Bushing Options

CW Splashproof

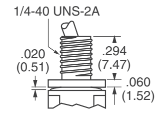

Internal actuator seal and external bushing seal washer standard.

D, D9 Unthreaded, **TD** Threaded
H3 Threaded, **H** 7000 Series

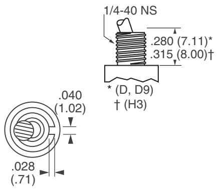

D1

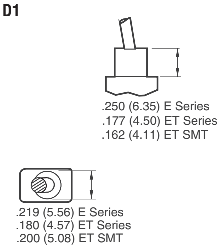

H T Series, **H9** Unthreaded

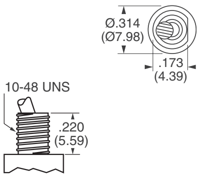

Y, Y9 Unthreaded

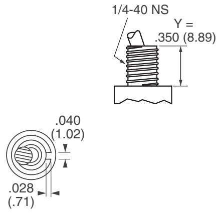

Y4 Threaded ***NEW!***

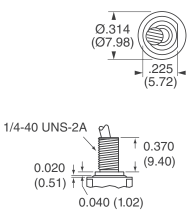

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
		Actuator	Bushing	Termi-nation				1	25	100	
DPDT	On-On	P3	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9931-ND† ***NEW!***	13.17	10.54	8.34	U21P3CWZGE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1144-ND	11.58	9.27	7.34	7205P3YZQE
	Mom-Off-Mom	P3	Y9	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9756-ND ***NEW!***	11.84	9.48	7.50	7205P3Y9CQE
	Mom-Off-Mom	P4	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9757-ND ***NEW!***	12.77	10.22	8.09	7205P4HZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1145-ND	11.84	9.48	7.50	7207P3YZQE
	On-Off-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN10183-ND ***NEW!***	10.00	8.01	6.34	7207SYCQE
	Mom-Off-Mom	P3	D	V3	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9755-ND ***NEW!***	13.35	10.68	8.46	7205P3DV3QE
	On-Off-Mom	S	Y9	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9933-ND† ***NEW!***	9.83	7.87	6.23	U27SYZQE
	On-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1146-ND	11.84	9.48	7.50	7208P3YZQE
	On-On	K2	—	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1217-ND	12.96	10.37	8.21	7201K2CBE
	On-On	K2	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1127-ND	12.77	10.22	8.09	7201K2CQE
	On-On	K2	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9723-ND ***NEW!***	14.19	11.35	8.99	7201K2CWZQE
	On-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1128-ND	12.51	10.02	7.93	7201K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1153-ND	13.51	10.81	8.56	7203K2ZQE
	On-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1149-ND	8.49	6.80	5.38	7201L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1150-ND	9.49	7.60	6.01	7203L1YZQE
	On-Off-On	K12	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1157-ND	13.51	10.81	8.56	7203K12ZQE
	On-On	K12	—	C	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9719-ND ***NEW!***	13.68	10.95	8.67	7201K12CGE
	On-On	K12	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9720-ND ***NEW!***	12.51	10.02	7.93	7201K12ZQE
	On-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1166-ND	11.61	9.30	7.36	7201TZQE
	On-On	T1	CW	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9742-ND ***NEW!***	13.55	10.84	8.58	7201T1CWCQE
	On-On	T	CW	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9743-ND ***NEW!***	13.55	10.84	8.58	7201TCWCQE
	On-On	T	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9744-ND ***NEW!***	14.20	11.36	9.00	7201TCWZGE
	On-On	T	—	W5	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9745-ND ***NEW!***	14.18	11.35	8.99	7201TW5BE
	On-Off-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1167-ND	12.61	10.09	7.99	7203TZQE
	Mom-Off-Mom	T	CW	C	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9758-ND ***NEW!***	15.45	12.37	9.79	7205TCWCGE
	Mom-Off-Mom	T	CW	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN10182-ND ***NEW!***	14.54	11.64	9.21	7205TCWCQE
	Mom-Off-Mom	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9759-ND ***NEW!***	12.61	10.09	7.99	7205TZQE
	On-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1162-ND	10.16	8.14	6.44	7201SCWZQE
	On-On	S	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9737-ND ***NEW!***	10.87	8.70	6.89	7201SDZQES2
	On-On	SP	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9739-ND ***NEW!***	14.22	11.38	9.01	7201SPCWZQES2
	On-Off-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1163-ND	11.16	8.94	7.07	7203SCWZQE
	On-Off-On	S	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9751-ND ***NEW!***	10.68	8.55	6.77	7203SHZQE
	On-On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1132-ND	10.23	8.19	6.48	7211SYZQE
	On-On-On	S	Y9	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9912-ND ***NEW!***	12.12	9.70	7.68	T211SY9CQE
	On-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1133-ND	10.97	8.78	6.95	7213SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1134-ND	10.97	8.78	6.95	7215SYZQE
	Mom-On-Mom	SP	D	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9929-ND† ***NEW!***	12.99	10.40	8.23	U215SPDCQE
	On-On	M	D9	V4	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1477-ND	10.45	8.36	6.62	7201MD9V4BE
	On-On	P3	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1478-ND	10.84	8.68	6.87	7201P3YCQE
	On-On	P1	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9727-ND ***NEW!***	14.67	11.74	9.30	7201P1YCQI
	On-On	S	Y	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1481-ND	9.40	7.53	5.96	7201SYZGE
	On-On	T	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1482-ND	11.87	9.50	7.52	7201TCQE
	On-On	T	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1483-ND	13.29	10.63	8.42	7201TCWZQE
	On-Off-On	T	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9752-ND ***NEW!***	15.20	12.16	9.63	7203TCWZGE
	On-Off-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1485-ND	11.58	9.27	7.34	7203P3YZQE
	On-Off-On	P1	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9749-ND ***NEW!***	15.67	12.54	9.93	7203P1YCQI
	On-Off-On	P3	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9750-ND ***NEW!***	12.77	10.22	8.09	7203P3HZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1487-ND	9.74	7.80	6.18	7205SYCQE
	Mom-Off-Mom	T	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1488-ND	15.20	12.16	9.63	7205TCWZGE
	On-On	SP	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9740-ND ***NEW!***	10.42	8.34	6.61	7201SPYCQE
	On-On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1492-ND	12.32	9.86	7.81	7211P3YZQE
	On-On	P3	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9731-ND ***NEW!***	10.58	8.47	6.71	7201P3DZQE
	On-On	P3	H	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9732-ND ***NEW!***	11.77	9.42	7.46	7201P3HZQE
	On-On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1493-ND	10.49	8.39	6.65	7211SYCQE
	On-On	S	D	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9736-ND ***NEW!***	8.75	7.00	5.55	7201SDCQE
	On-On	S	Y	W4	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN10181-ND ***NEW!***	10.87	8.70	6.89	7201SYW4QE
	On-On	P1	H	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9725-ND ***NEW!***	12.03	9.63	7.62	7201P1HCQE
	On-On	P1	Y4	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9726-ND ***NEW!***	12.42	9.94	7.87	7201P1Y4ZQE
	On-On	P3	D	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9729-ND ***NEW!***	10.84	8.68	6.87	7201P3DCQE
	On-On	P3	D	W	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9730-ND ***NEW!***	11.74	9.39	7.44	7201P3DWBE
	Mom-On-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1494-ND	11.23	8.99	7.11	7215SYCQE
	Mom-On-Mom	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1495-ND	14.09	11.28	8.93	7215TZQE
	On-On	S	H3	Z	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1507-ND	18.71	16.16	13.61	9201SH3ZQE
	On-On	P3	H	Z	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN9821-ND ***NEW!***	27.54	22.04	17.45	9201P3HZQE
	On-On	K1	—	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1508-ND	29.98	25.90	21.81	9221K1Z4QD
	On-On	K	—	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1509-ND	29.98	25.90	21.81	9221KZ4QD
	On-On	S	H3	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1510-ND	26.14	22.58	19.02	9221SH3Z4QD
	On-On	M	D1	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1522-ND	11.70	9.36	7.41	E201MD1V3BE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9857-ND ***NEW!***	9.07	7.26	5.75	E201SYZQE
	On-Off-On	S	D1	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9858-ND ***NEW!***	10.60	8.48	6.72	E203SD1CQE
	On-On-On	S	Y	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9860-ND ***NEW!***	12.05	9.65	7.64	E211SYCBE
	Mom-On-Mom	S	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9861-ND ***NEW!***	13.09	10.48	8.30	E215SYZBE
	On-On	M	D1	V3	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1523-ND	11.51	9.21	7.29	E201MD1V3QE
	On-On	S	D1	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1524-ND	9.33	7.47	5.91	E201SD1CQE
	On-On	M	H9	V3	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1557-ND	10.92	8.74	6.92	T201MH9V3BE
	On-On-On	M	H9	V3	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9911-ND ***NEW!***	13.51	10.81	8.56	T211MH9V3BE
	On-On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1559-ND	12.59	10.07	7.98	T211SHZQE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1560-ND	8.49	6.80	5.38	U21SYZQE
	On-Off-Mom	M	H	W	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9762-ND ***NEW!***	12.09	9.68	7.66	7207MHWBE
3PDT	On-On	S	Y	C	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1013-ND	14.81	11.85	9.38	7301SYCQE
	On-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1037-ND	14.42	11.54	9.14	7301SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1135-ND	15.23	12.18	9.65	7303SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1136-ND	18.83	15.07	11.93	7305SYZQE
	On-Off-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1154-ND	19.25	15.40	12.20	7303K2ZQE
	On-Off-On	P3	Y	V7	G	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN9946-ND ***NEW!***	20.85	16.68	13.21	7303P3Y9V7GE
	On-Off-On	K12	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1158-ND	19.25	15.40	12.20	7303K12ZQE
	On-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1496-ND	13.53	11.69	9.84	7301K2ZQE
	On-On	P3	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1497-ND	12.11	10.46	8.81	7301P3YZQE
	On-On	P3	D	C	G	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN9934-ND† ***NEW!***	17.88	14.31	11.33	U31SPDCGE
	On-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1498-ND	12.86	11.11	9.36	7301TZQE
	On-Off-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1499-ND	13.46	11.63	9.79	7303TZQE
	On-On	S	D1	C	B	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1526-ND	15.24	12.20	9.66	E301SD1CBE
4PDT	On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1038-ND	14.62	12.63	10.64	7401SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1137-ND	15.47	13.37	11.26	7403SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1138-ND	16.77	14.49	12.20	7405SYZQE
	On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1501-ND	16.16	13.96	11.76	7401P3YZQE
	On-On	S	Y	C	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1502-ND	15.00	12.96	10.92	7401SYCQE
	On-On	T	—	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1503-ND	16.91	14.61	12.31	7401TZQE
	On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1504-ND	16.77	14.49	12.20	7408SYZQE
	On-On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1505-ND	19.25	16.63	14.00	7411P3YZQE
	Mom-On-Mom	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1506-ND	19.25	16.63	14.00	7415P3YZQE
	On-On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1139-ND	17.72	15.31	12.89	7411SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1140-ND	17.72	15.31	12.89	7413SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1141-ND	17.72	15.31	12.89	7415SYZQE

† UL Approved **Note:** All threaded bushings include mounting hardware.

Termination Options

C

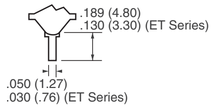

V3, V31 (A = .460)
V4, V7, V81 (A = .630)

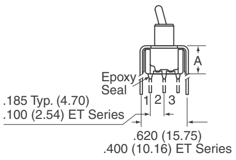

W, W3, W4, W5, W6

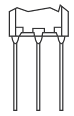

Wire-Wrap Terminal

Z

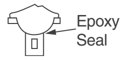

Solder Eyelet

Z4

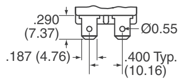

I

C&K Right Angle Toggle Switches

Fig. 1

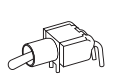

Right Angle

Fig. 2

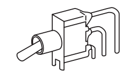

Vertical Right Angle

Actuator Options

K

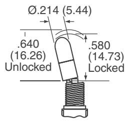

K2 Locking Lever

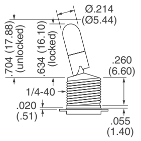

L

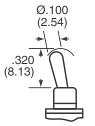

M

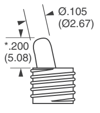

* Add .070 (1.78) for D9 bushings.

P3 Antirotation
P4 = .250" High

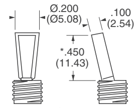

* Add .070 (1.78) for D, D9 bushings.

S

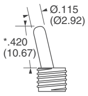

- * Add .070 (1.78) for D9 bushings.
- * Subtract .020 (.51) for H3 bushings.

Bushing Options

D9 (Unthreaded)
D (Threaded)

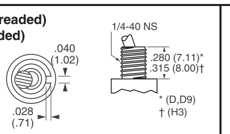

H (10-48 UNS)
H9 (Unthreaded)

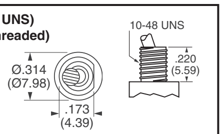

D1

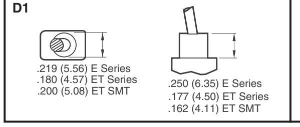

Y, Y9 (Unthreaded)

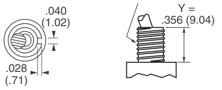

Termination Options

A

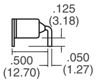

7000 Series

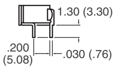

ET, T Series

AV

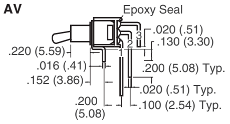

AV2

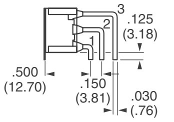

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q End Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact and All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
		Actuator	Bushing	Termination				1	25	100	
Fig. 1 — Right Angle											
SPDT	On-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1049-ND	6.62	5.30	4.19	7101SD9ABE
	On-Off-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1051-ND	7.19	5.76	4.56	7103SD9ABE
	On-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1045-ND	6.62	5.30	4.19	7101MD9ABE
	On-On	M	D9	A	G	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1046-ND	7.14	5.72	4.53	7101MD9AGE
	On-On	M	D9	A	Q	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1047-ND	6.52	5.22	4.13	7101MD9AQE
	On-Off-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1050-ND	7.19	5.76	4.56	7103MD9ABE
	Mom-Off-Mom	M	D9	A	B	.365 x .500 x .284 (9.27 x 12.70 x 7.21)	CKN1172-ND	7.32	5.86	4.64	7105MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1053-ND	7.32	5.86	4.64	7107MD9ABE
	On-On	P3	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1048-ND	8.71	6.97	5.52	7101P3D9ABE
	On-On	S	Y	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1456-ND	6.62	5.30	4.19	7101SYABE
	On-On	S	Y	A	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1457-ND	6.52	5.22	4.13	7101SYAQE
	Mom-Off-Mom	S	Y	A	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9705-ND ***NEW!***	7.23	5.79	4.58	7105SYAQE
	On-Mom	M	D9	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1472-ND	7.32	5.86	4.64	7108MD9ABE
	On-On	M	D1	A	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1511-ND	7.31	5.86	4.64	E101MD1AGE
	On-On	M	D1	A	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1512-ND	6.69	5.35	4.24	E101MD1AQE
	On-Off-On	M	D1	A	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1520-ND	7.99	6.39	5.06	E103MD1ABE
	On-On	M	D1	A	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1528-ND	7.93	6.35	5.03	ET01MD1AGE
	On-On	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1531-ND	7.36	5.89	4.67	ET01SD1ABE
	On-Off-On	L	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1532-ND	8.21	6.57	5.20	ET03LD1ABE
	Mom-Off-Mom	M	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1534-ND	8.21	6.57	5.20	ET05MD1ABE
	Mom-Off-Mom	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1535-ND	8.21	6.57	5.20	ET05SD1ABE
	On-On	K	—	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1545-ND	13.54	10.84	8.58	T101KABE
	On-On	M	H	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1548-ND	6.93	5.55	4.39	T101MHABE
	On-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1067-ND	6.93	5.55	4.39	T101MH9ABE
	On-Off-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1068-ND	8.16	6.53	5.17	T103MH9ABE
	Mom-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1386-ND	8.16	6.53	5.17	T105MH9ABE
	On-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1387-ND	8.42	6.74	5.34	T107MH9ABE
	On-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1388-ND	8.42	6.74	5.34	T108MH9ABE
DPDT	On-On	M	D9	A	B	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1055-ND	10.09	8.08	6.40	7201MD9ABE
	On-On	M	D9	A	Q	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1056-ND	9.91	7.93	6.28	7201MD9AQE
	On-On	M	H9	A	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1069-ND	10.92	8.74	6.92	T201MH9ABE
	On-On	S	Y	A	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1480-ND	9.91	7.93	6.28	7201SYAQE
	On-On	P3	Y9	A	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9733-ND ***NEW!***	12.00	9.60	7.60	7201P3Y9AQE
	On-Off-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1484-ND	11.09	8.88	7.03	7203MD9ABE
	On-Off-On	M	H9	A	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9907-ND ***NEW!***	12.21	9.78	7.74	T203MH9ABE
	On-Off-Mom	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1489-ND	11.35	9.08	7.19	7207MD9ABE
	On-Off-On	MP	CW	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9748-ND ***NEW!***	14.44	11.56	9.15	7203MPCWABE
	On-On-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1491-ND	11.83	9.47	7.50	7211MD9ABE
	On-On	M	D1	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1521-ND	10.69	8.55	6.77	E201MD1ABE
	On-Mom	S	D1	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9859-ND ***NEW!***	11.96	9.57	7.58	E208SD1ABE
	On-On	K2	—	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9721-ND ***NEW!***	14.12	11.30	8.95	7201K2ABE
	On-On	K2	—	A	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9722-ND ***NEW!***	13.93	11.15	8.83	7201K2AQE
	On-On	M	H9	A	G	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1555-ND	12.91	10.33	8.18	T201MH9AGE
	On-Mom	S	H9	A	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1558-ND	12.58	10.07	7.97	T208SH9ABE
3PDT	On-On	M	D9	A	B	.500 x .500 x .500 (12.70 x 12.70 x 12.70)	CKN1383-ND	16.82	13.46	10.66	7301MD9ABE
	On-On	M	D1	A	G	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1525-ND	13.30	11.49	9.68	E301MD1AGE
Fig. 2 — Vertical Right Angle											
SPDT	On-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1059-ND	6.97	5.58	4.42	7101MD9AV2BE
	On-Off-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1173-ND	7.55	6.04	4.79	7103MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1174-ND	7.68	6.15	4.87	7107MD9AV2BE
	On-On	M	H9	AV	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1070-ND	7.30	5.84	4.63	T101MH9AVBE
	On-On	K2	—	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1440-ND	11.00	8.80	6.97	7101K2AV2BE
	On-On	M	D9	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1443-ND	6.87	5.50	4.36	7101MD9AV2QE
	On-Off-Mom	P3	CW	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9710-ND ***NEW!***	14.79	11.84	9.37	7107P3CWAV2QE22
	On-Mom	P3	CW	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9716-ND ***NEW!***	11.35	9.08	7.19	7108P3CWAV2QE
	On-On	P4	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1446-ND	9.06	7.26	5.74	7101P4D9AV2BE
	On-On	S	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1447-ND	6.97	5.58	4.42	7101SD9AV2BE
	On-On	S	D	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1450-ND	6.97	5.58	4.42	7101SDAV2BE
	On-On	S	H	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1452-ND	8.16	6.53	5.17	7101SHAV2BE
	On-On	P3	Y	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9675-ND ***NEW!***	10.16	8.13	6.44	7101P3Y9AV2BES
	On-On	S	Y9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1454-ND	6.97	5.58	4.42	7101SY9AV2BE
	On-On	S	Y	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1458-ND	6.97	5.58	4.42	7101SYAV2BE
	Mom-Off-Mom	M	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1464-ND	7.68	6.15	4.87	7105MD9AV2BE
	On-On	M	D1	AV2	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1513-ND	8.00	6.40	5.07	E101MD1AV2GE
	On-On	M	D1	AV2	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1514-ND	7.37	5.90	4.67	E101MD1AV2QE
	On-On	S	D1	AV2	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1517-ND	7.47	5.98	4.73	E101SD1AV2BE
	On-On	M	D1	AV	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1529-ND	8.52	6.82	5.40	ET01MD1AVGE

(Continued)

Right Angle Toggle Switches *(Cont.)*

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
		Actuator	Bushing	Termination				1	25	100	
SPDT	On-On	M	H	AV	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9899-ND ***NEW!***	7.30	5.84	4.63	T101MHAVBE
	On-Off-On	M	D1	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1533-ND	8.79	7.04	5.57	ET03MD1AVBE
	On-Off-On	P4	D	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN9693-ND ***NEW!***	9.64	7.72	6.11	7103P4DAV2BE
	On-Off-On	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1550-ND	8.52	6.82	5.40	T103MH9AVBE
	Mom-Off-Mom	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1552-ND	8.52	6.82	5.40	T105MH9AVBE
	On-Mom	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1553-ND	8.79	7.04	5.57	T108MH9AVBE
DPDT	On-On	M	D9	AV2	B	.500 x .650 x .565 (12.70 x 16.51 x 14.35)	CKN1384-ND	10.77	8.62	6.83	7201MD9AV2BE
	On-On	M	D9	AV2	Q	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1476-ND	10.58	8.47	6.71	7201MD9AV2QE
	On-On	P3	CW	AV2	S	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9728-ND ***NEW!***	14.78	11.83	9.36	7201P3CWAV2SE
	On-On	S	Y9	AV2	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9741-ND ***NEW!***	10.77	8.62	6.83	7201SY9AV2BE
	On-On	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1479-ND	10.77	8.62	6.83	7201SD9AV2BE
	Mom-Off-Mom	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1486-ND	11.77	9.42	7.46	7205MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1490-ND	8.82	7.62	6.42	7207MD9AV2BE
	On-On	M	H9	AV	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1556-ND	11.45	9.16	7.26	T201MH9AVBE
	On-Mom	S	H9	AV	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN9909-ND ***NEW!***	13.11	10.49	8.31	T208SH9AVBE
4PDT	On-On	M	D9	AV2	B	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1500-ND	17.49	15.11	12.73	7401MD9AV2BE
						Optional Hardware and Accessories					
Dress Nut 10-48, .070” (1.78mm) high, for Series T and TP; nickel plated							CKN9414-ND	.72	.58	.46	298D01201
Dress Nut 1/4 x 40, .325” (8.26mm) high, for Series 8020, 8060, E010 and TP; nickel plated							CKN1184-ND	.51	.41	.33	702501201
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, E, E010 and TP							CKN1201-ND	.38	.31	.25	780701201
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1754-ND	.41	.33	.26	709901201
Dress Nut 1/4 x 40, .090” (2.29mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1392-ND	.48	.39	.31	776001201
Dress Nut 15/32-32, .120” (3.05mm) high, for Series 7000 and 8500; nickel plated							CKN1202-ND	1.51	1.21	.96	895101201
Knurled Nut 1/4 x 40, .080” (2.03mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1755-ND	.46	.37	.29	778000201
Knurled Nut 1/4 x 40, .062” (1.57mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1756-ND	.36	.29	.23	796901201
Lockwasher 1/4 x 40, .402” (10.21mm) diameter; nickel plated							CKN1753-ND	.29	.24	.19	700303202
Lockwasher 15/32, .593” (15.06mm) diameter; nickel plated							CKN9155-ND	.29	.24	.19	700302202
Hex Nut 8-40, for Series 8600; nickel plated							CKN6180-ND	.29	.24	.19	775200201
Hex Nut 1/4 x 40, for Series 7000, 8020, 8060, 8500 and T; nickel plated							CKN1185-ND	.31	.25	.20	700201201
Hex Nut 15/32-32, for Series 7000, 8500, and 9000; nickel plated							CKN10081-ND ***NEW!***	.44	.36	.29	707100201
Locking Ring 1/4 x 40, .468” (11.89mm) diameter, for Series 7000, 8020, 8060, 8500, 9000, M, T and TP; nickel plated							CKN9416-ND	.30	.24	.19	757200201
Locking Ring 1/4 x 40, .435” (11.05mm) diameter, for Series 7000, 8020, 8060, 8500, 9000, M, T and TP; nickel plated							CKN1817-ND	.31	.25	.20	700701201
Locking Ring 15/32, for Series 7000, 8500, and 9000; nickel plated							CKN10082-ND ***NEW!***	.38	.31	.25	707200201
Vinyl Toggle Cap, Black, .312” (7.92mm) long, for color coding option “S” actuators, Series 7000							CKN10080-ND ***NEW!***	.29	.24	.19	706202000
Vinyl Toggle Cap, White, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1203-ND	.89	.72	.57	896801000
Vinyl Toggle Cap, Black, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1204-ND	.90	.72	.57	896802000
Vinyl Toggle Cap, Red, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1205-ND	.89	.72	.57	896803000
Vinyl Toggle Cap, Blue, .687 (17.45mm) long, for color coding option, Series 7000							CKN9806-ND ***NEW!***	.81	.65	.52	763707000

Process Sealed Toggle Switches

Withstands soldering and cleaning processes

Fig. 1

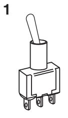

Vertical

Fig. 2

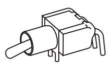

Right Angle

Fig. 3

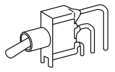

Vertical Right Angle

Fig. 4

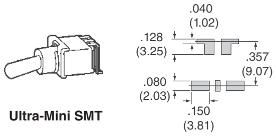

Ultra-Mini SMT

Fig. 5

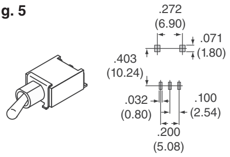

Fig. 6

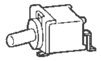

Ultra-Mini SMT

Fig. 7

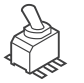

Ultra-Mini SMT

Fig. 8

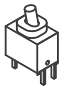

Ultra-Mini

Fig. 9

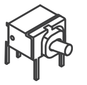

Ultra-Mini

Fig. 10

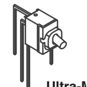

Ultra-Mini

Contact Material

Contacts and Terminals: Copper alloy, with gold plate over nickel plate.

Rating: 0.4 VA maximum @ 20V AC or DC maximum

Actuator Options

M, M3

* Add .070 (1.78) for D1 bushings.

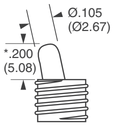

S

* Add .070 (1.78) for D bushings.

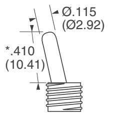

Bushing Options

D1

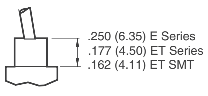

Termination Options

A

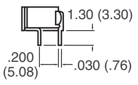

AV

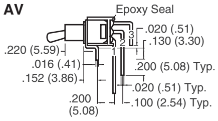

AV2

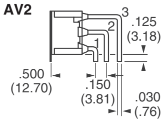

C

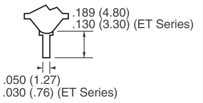

V3, V31

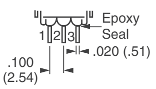

W *NEW!*

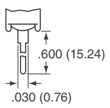

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
			Actuator	Bushing	Termination			1	25	100	
1	SPDT	On-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1074-ND	6.17	4.94	3.91	E101SD1CBE
	SPDT	On-Off-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1075-ND	7.37	5.90	4.67	E103SD1CBE
	SPDT	Mom-Off-Mom	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1076-ND	7.37	5.90	4.67	E105SD1CBE
	SPDT	On-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1071-ND†	6.74	5.40	4.28	ET01SD1CBE
	SPDT	On-Off-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1080-ND†	7.59	6.08	4.81	ET03SD1CBE
	SPDT	On-Mom	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1081-ND†	7.59	6.08	4.81	ET08SD1CBE
	SPDT	On-On	M	D1	V3	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1072-ND†	7.36	5.89	4.67	ET01MD1V3BE
	DPDT	On-On	S	D1	C	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1077-ND	9.52	7.62	6.03	E201SD1CBE
	DPDT	On-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1082-ND†	10.17	8.14	6.44	ET21SD1CBE
	DPDT	On-Off-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1083-ND†	11.53	9.23	7.31	ET23SD1CBE
2	DPDT	On-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1086-ND†	11.34	9.07	7.19	ET21MD1ABE
	DPDT	On-Off-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1177-ND	12.70	10.17	8.05	ET23MD1ABE

† UL Approved § Bulk ‡ Plastic, anti-static

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Process Sealed Toggle Switches *(Cont.)*

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
2	SPDT	On-On	S	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1061-ND†	6.78	5.43	4.30	E101SD1ABE
	SPDT	On-On	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1060-ND†	6.78	5.43	4.30	E101MD1ABE
	SPDT	Mom-Off-Mom	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1062-ND†	7.99	6.39	5.06	E105MD1ABE
	SPDT	On-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1073-ND†	7.36	5.89	4.67	ET01MD1ABE
	SPDT	On-Off-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1084-ND†	8.21	6.57	5.20	ET03MD1ABE
	SPDT	On-Mom	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1085-ND†	8.21	6.57	5.20	ET08MD1ABE
3	SPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1065-ND†	7.47	5.98	4.73	E101MD1AV2BE
	SPDT	On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1078-ND	8.67	6.94	5.50	E103MD1AV2BE
	SPDT	Mom-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1079-ND	8.67	6.94	5.50	E105MD1AV2BE
	SPDT	On-On	M	D1	AV	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1385-ND	7.95	6.36	5.04	ET01MD1AVBE
	SPDT	On-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1178-ND	8.67	6.94	5.50	E107MD1AV2BE
	DPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1179-ND	11.37	9.10	7.21	E201MD1AV2BE
	DPDT	On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1180-ND	12.64	10.12	8.01	E203MD1AV2BE

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Dimensions — Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	C&K Part No.
						Ultra Mini Toggles								
1	SPDT	On-Off-On	M	D1	V3	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10110-ND§ ***NEW!***	8.21	6.57	5.20	—	—	—	ET03MD1V3BE
	SPDT	On-Off-Mom	L	D1	V31	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10018-ND§ ***NEW!***	8.12	6.50	5.14	—	—	—	ET07LD1V31QE
4	SPDT	On-On	M	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9114CT-ND	7.58	6.07	4.81	CKN9114TR-ND	600	2729.16	ET01MD1SAPE
	SPDT	On-Off-On	M	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9126CT-ND	8.33	6.67	5.28	CKN9126TR-ND	600	3000.00	ET03MD1SAPE
	SPDT	On-On	M3‡	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9469CT-ND	8.68	8.02	7.35	CKN9469TR-ND	600	2885.76	ET01M3D1SAPE
	SPDT	On-Off-On	M3‡	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9471CT-ND	9.50	8.77	8.04	CKN9471TR-ND	600	3156.84	ET03M3D1SAPE
5	SPDT	On-On	M	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9470CT-ND	7.70	7.11	6.52	CKN9470TR-ND	500	2133.00	ET01MD1SA1BE
	SPDT	On-On	M3‡	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10212CT-ND ***NEW!***	8.17	7.55	6.92	CKN10212TR-ND ***NEW!***	500	2263.50	ET01M3D1SA1BE
	SPDT	Mom-Off-Mom	M	D1	—	.350 x .320 x .177 (8.89 x 8.13 x 4.50)	CKN9472CT-ND	8.52	7.87	7.22	CKN9472TR-ND	500	2359.80	ET05MD1SA1BE
	SPDT	On-Off-On	M3‡	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10214CT-ND ***NEW!***	8.99	8.31	7.61	CKN10214TR-ND ***NEW!***	500	2490.30	ET03M3D1SA1BE
	SPDT	On-Off-On	M	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10215CT-ND ***NEW!***	8.52	7.87	7.22	CKN10215TR-ND ***NEW!***	500	2359.80	ET03MD1SA1BE
	SPDT	Mom-Off-Mom	M3‡	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10216CT-ND ***NEW!***	8.99	8.31	7.61	CKN10216TR-ND ***NEW!***	500	2490.30	ET05M3D1SA1BE
	SPDT	On-Off-Mom	M3‡	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10218CT-ND ***NEW!***	8.99	8.31	7.61	CKN10218TR-ND ***NEW!***	500	2490.30	ET07M3D1SA1BE
	SPDT	On-Off-Mom	M	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10219CT-ND ***NEW!***	8.52	7.87	7.22	CKN10219TR-ND ***NEW!***	500	2359.80	ET07MD1SA1BE
	SPDT	On-Mom	M3‡	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10221CT-ND ***NEW!***	8.99	8.31	7.61	CKN10221TR-ND ***NEW!***	500	2490.30	ET08M3D1SA1BE
	SPDT	On-Mom	M	D1	—	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10222CT-ND ***NEW!***	8.52	7.87	7.22	CKN10222TR-ND ***NEW!***	500	2359.80	ET08MD1SA1BE
6	SPDT	On-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1783CT-ND	6.45	5.96	5.46	CKN1783TR-ND	600	2143.80	GT11MSABE
	SPST	Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9049CT-ND	6.85	5.91	4.75	CKN9049TR-ND	600	2277.72	GT12MSABE
	SPDT	On-Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN2091CT-ND	7.76	6.69	5.38	CKN2091TR-ND	600	2580.12	GT13MSABE
7	SPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1784CT-ND	7.29	6.74	5.61	CKN1784TR-ND	200	807.84	GT11MSCBE
	SPST	Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN9050CT-ND	8.04	6.93	5.57	CKN9050TR-ND	200	990.00	GT12MSCBE
	SPDT	On-Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2092CT-ND	8.61	7.42	5.97	CKN2092TR-ND	200	1060.00	GT13MSCBE
	DPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2089CT-ND	9.93	8.56	6.88	CKN2089TR-ND	200	1222.40	GT21MSCBE
8	SPST	On-Off	M	D1	C	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN9868-ND§ ***NEW!***	7.59	6.08	4.81	—	—	—	ET02MD1CBE
	SPST	On-Off	S	D1	W	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN9869-ND§ ***NEW!***	7.92	6.34	5.02	—	—	—	ET02SD1WBE
	SPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN1782-ND§	6.18	4.95	3.92	—	—	—	GT11MCBE
	SPDT	Off-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN10027-ND§ ***NEW!***	6.77	5.42	4.29	—	—	—	GT12MCBE
	SPDT	Off-On	M	None	V3	.300 x .215 x .249 (7.62 x 5.46 x 6.32)	CKN9871-ND§ ***NEW!***	7.84	6.28	4.97	—	—	—	GT12MV3BE
	SPDT	On-Off-On	M	D1	C	.320 x .200 x .177 (8.13 x 5.08 x 4.50)	CKN10109-ND§ ***NEW!***	7.59	6.08	4.81	—	—	—	ET03MD1CBE
	DPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN2088-ND§	8.31	6.65	5.27	—	—	—	GT21MCBE
9	SPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.83 x 6.93)	CKN1780-ND§	6.96	5.57	4.41	—	—	—	GT11MABE
	SPST	Off-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN9048-ND§	7.41	5.93	4.70	—	—	—	GT12MABE
	DPDT	Mom-Off-Mom	M	D1	A	.320 x .360 x .177 (8.13 x 9.14 x 4.50)	CKN9870-ND§ ***NEW!***	12.80	10.24	8.11	—	—	—	ET25MD1ABE
	DPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN2087-ND§	9.41	7.53	5.96	—	—	—	GT21MABE
10	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN1781-ND§	6.96	5.57	4.41	—	—	—	GT11MAVBE

† UL Approved   § Bulk   ‡ Plastic, anti-static

NEW! MIL-S-83731 Toggle Switches

Features:

- Qualified to MIL-S-83731
- 50µ" selective gold contact plating
- Epoxy sealed terminals for process compatibility
- Rated for logic level to 5A resistive loads and 2A inductive loads
- Flame retardant housing material

Fig. 1

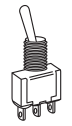

Straight

Fig. 2

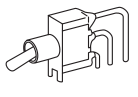

Vertical Right Angle

Fig.	Circuit	Switching Function	Options Bushing	Termination	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	SPDT	On-Mom	1/4-40	Solder Lug	CKN10125-ND	14.02	11.22	8.88	M83731/9-261
	SPDT	Mom-Off-Mom	1/4-40	Solder Lug	CKN10126-ND	14.02	11.22	8.88	M83731/9-271
	SPDT	Mom-Off-Mom	1/4-40	PC Pin	CKN9877-ND	13.70	10.97	8.68	M83731/9-272
	SPDT	On-Off-On	1/4-40	Solder Lug	CKN10128-ND	13.94	11.15	8.83	M837319211
	SPDT	On-On	1/4-40	Solder Lug	CKN10129-ND	12.77	10.22	8.09	M837319231
	DPDT	On-Off-On	1/4-40	Solder Lug	CKN10115-ND	17.76	14.21	11.25	M83731/10-211
	DPDT	On-On	1/4-40	Solder Lug	CKN10127-ND	17.44	13.96	11.05	M83731110231
	DPDT	On-Off-On	1/4-40	PC Pin	CKN10116-ND	17.79	14.24	11.27	M83731/10-232
	DPDT	On-Mom	1/4-40	Solder Lug	CKN10117-ND	17.76	14.21	11.25	M83731/10-261
	DPDT	Mom-Off-Mom	1/4-40	Solder Lug	CKN10118-ND	17.76	14.21	11.25	M83731/10-271
	DPDT	On-Off-Mom	1/4-40	PC Pin	CKN10119-ND	17.76	14.21	11.25	M83731/10-312
	DPDT	On-On-On	1/4-40	Solder Lug	CKN10120-ND	19.39	15.51	12.28	M83731/10-321
	DPDT	Mom-On-Mom	1/4-40	Solder Lug	CKN10121-ND	20.50	16.40	12.99	M83731/10-351
2	SPDT	On-On	—	PC Pin	CKN10122-ND	11.84	9.48	7.50	M83731/15-231
	SPDT	On-Mom	—	PC Pin	CKN10123-ND	12.12	9.70	7.68	M83731/15-261
	SPDT	Mom-Off-Mom	—	PC Pin	CKN10124-ND	12.00	9.60	7.60	M83731/15-271
	DPDT	On-Off-Mom	—	PC Pin	CKN9876-ND	19.17	15.34	12.14	M83731/16-311

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Toggle Switches

MT Series:
Material Specifications: • Contacts: Gold flash over silver • Case Material: Thermoset 94V-0 • Terminals: Gold flash **Environmental Specifications:** • Operating Temperature: -20°C ~ 80°C **Typical Performance Characteristics:** • Contact Rating: 6A @ 125VAC, 3A @ 250VAC, 4A @28VDC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum @ 500VDC minimum for 1 minute • Dielectric Strength: 1,500VAC

TT Series:
Material Specifications: • Contacts: Gold over nickel • Case Material: Thermoplastic 94V-0 **Environmental Specifications:** • Operating Temperature: -30°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: 0.4VA maximum @ 20VDC or peak AC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ @ 500VDC minimum • Dielectric Strength: 1,000V RMS

Gemini Series:
Design Features: • Meets CSA Requirements • Toggle: Machined brass, heavy nickel plated • Bushing and Frame: Rigid one piece die cast, copper flashed, heavy nickel plated • Fixed Contact: Welded construction, selective placement of precious metal • Movable Contact: "Captured" design eliminates possibility of displacement due to shock • Terminal Seal: Epoxy sealing of terminals is standard **Material Specifications:** • Contacts: Gold/Gold flash, Silver/Tin lead • Case Material: Thermoset 94V-0 • Terminal Seal: Epoxy **Environmental Specifications:** • Operating Temperature: -20°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: Gold: 0.4VA @ 20VAC/DC; Silver: 2A @ 250VAC, 5A @ 125VAC • Initial Contact Resistance: 30mΩ maximum • Insulation Resistance: 1,000MΩ @ 500VDC • Dielectric Strength: 1,000V RMS

Fig. 1

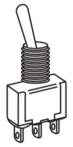

Fig. 2

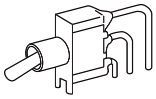

Fig. 3

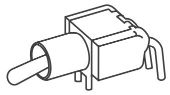

Fig.	Circuit	Switching Function	Options (*see diagrams*) Actuator	Bushing	Termination	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
						MT Green Series					
1	SPDT	On-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1297-ND	6.88	5.55	4.78	MTA106D
	SPDT	On-On	A2	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1298-ND	7.10	5.73	4.93	MTA106DPC
	SPDT	On-Off-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1299-ND	9.69	8.33	7.14	MTA106E
	SPDT	On-Off-On	A2	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1300-ND	9.18	7.89	6.77	MTA106EPC
	SPDT	On-Mom	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1301-ND	9.21	7.92	6.79	MTA106F
	SPDT	Mom-Off-Mom	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1302-ND	10.26	8.82	7.56	MTA106G
	DPDT	On-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1304-ND	9.29	7.99	6.85	MTA206N
	DPDT	On-On	A2	B1	T2	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1305-ND	12.20	10.49	8.99	MTA206NPC
	DPDT	On-Off-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1306-ND	12.45	10.71	9.18	MTA206P
	3PDT	On-On	A2	B1	T1	.512 x .701 x .492 (13.00 x 17.81 x 12.50)	450-1308-ND ***NEW!***	18.92	16.27	13.95	MTA306D
	SPDT	On-On	A2	B2	T1	.512 x .315 x .413 (13.00 x 8.00 x 10.49)	450-1309-ND ***NEW!***	9.75	8.38	7.19	MTE106D
	DPDT	On-On	A2	B2	T1	.512 x .512 x .413 (13.00 x 13.00 x 10.49)	450-1310-ND	13.02	11.20	9.60	MTE206N
	SPDT	On-On	A3	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1311-ND	11.34	9.76	8.36	MTF106D
	SPDT	On-On	A4	B3	T1	.512 x .315 x .354 (13.00 x 8.00 x 8.99)	450-1313-ND	10.83	9.31	7.98	MTG106D
	DPDT	On-On	A4	B3	T1	.512 x .512 x .354 (13.00 x 13.00 x 8.99)	450-1314-ND	15.70	13.50	11.58	MTG206N
	SPDT	On-On	A5	B1	T1	.512 x .315 x .433 (13.00 x 8.00 x 11.00)	450-1315-ND	13.05	11.23	9.62	MTL106D
	DPDT	On-On	A5	B1	T1	.512 x .512 x .433 (13.00 x 13.00 x 11.00)	450-1316-ND	18.41	15.83	13.57	MTL206N
	3PDT	On-On	A5	B1	T1	.512 x .701 x .532 (13.00 x 17.80 x 13.51)	450-1317-ND	26.53	22.81	19.56	MTL306D
	SPDT	On-On	A6	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1318-ND	11.34	9.76	8.36	MTM106DPC
						TT Series, Tiny					
1	SPDT	On-On	A7	B4	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1385-ND	7.13	6.13	5.25	TT11DGPC104
	SPDT	On-Off-On	A7	B4	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1387-ND	13.05	11.23	9.62	TT11EGPC104
	DPDT	On-On	A7	B4	T2	.363 x .320 x .348 (9.22 x 8.13 x 8.84)	450-1347-ND	15.76	13.55	11.62	TT21NGPC104
	SPDT	On-On	A3	B1	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1382-ND	14.14	12.16	10.42	TT11DGPC9T1/404
	SPDT	On-Off-On	A3	B1	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1383-ND	15.62	13.43	11.51	TT11EGPC9T1/404
2	SPDT	On-On	A8	B4	T3	.320 x .206 x .559 (8.13 x 5.23 x 14.20)	450-1386-ND	14.65	12.60	10.80	TT11DGVRA104
	SPDT	On-Off-On	A8	B4	T3	.320 x .206 x .559 (8.13 x 5.23 x 14.20)	450-1388-ND	17.47	15.02	12.88	TT11EGVRA104
						Gemini Series					
1	SPDT	On-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1523-ND	2.70	2.18	1.88	A101SYZQ04
	SPDT	On-Off-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1527-ND	3.32	2.68	2.31	A103SYZQ04
	SPDT	Mom-Off-Mom	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1531-ND	3.66	2.95	2.54	A105SYZQ04
	SPDT	On-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1522-ND★	3.04	2.45	2.11	A101SYZB04
	SPDT	On-Off-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1526-ND★	3.63	2.93	2.52	A103SYZB04
	SPDT	Mom-Off-Mom	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1530-ND★	3.97	3.20	2.76	A105SYZB04
	DPDT	On-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1533-ND	3.13	2.53	2.18	A201SYZQ04
	DPDT	On-Off-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1534-ND	3.78	3.05	2.63	A203SYZQ04
	DPDT	Mom-Off-Mom	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1535-ND	4.06	3.28	2.82	A205SYZQ04
	SP3T	On-On-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1536-ND	5.27	4.25	3.66	A211SYZQ04
	SPDT	On-On	A1	B5	T2	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1521-ND★	3.04	2.45	2.11	A101SYCB04
	SPDT	On-Off-On	A1	B5	T2	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1525-ND★	3.63	2.93	2.52	A103SYCB04
3	SPDT	On-On	A1	B5	T4	.500 x .265 x .500 (12.70 x 6.73 x 12.70)	450-1520-ND★	3.29	2.65	2.28	A101SYAB04

★ Gemini Series Gold Contacts

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
	Splashproof Boots					
1	Splashproof Half-Boot, 1/4-40 for TT, MTA and Gemini Series, Black	450-1637-ND	7.18	6.18	5.67	BT1440004
	Splashproof Half-Boot, 15/32-32 for MTG Series, Black	450-1497-ND	7.18	6.18	5.67	BT1532004
2	Splashproof Full-Boot, 10-48 for TT Series, Black	450-1546-ND	6.79	5.48	5.26	B1048004
	Splashproof Full-Boot, 15/32-32 for MTG and Gemini Series, Black	450-1548-ND	7.18	6.18	5.67	B1532004

Actuator Options

A1

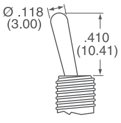

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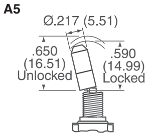

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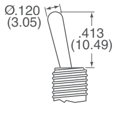

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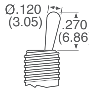

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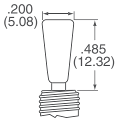

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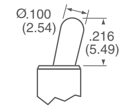

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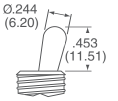

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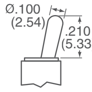

Bushing Options

B1

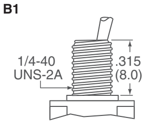

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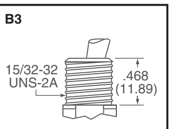

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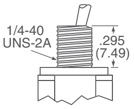

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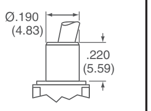

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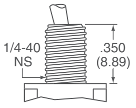

Termination Options

T1

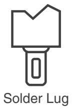

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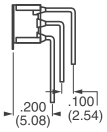

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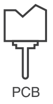

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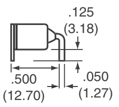

Fig. 1

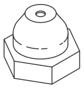

Fig. 2

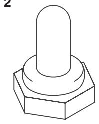

Toggle Switches

Actuator Options

Fig. 1
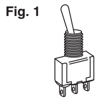

Fig. 2
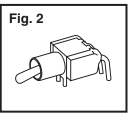

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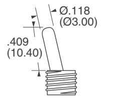

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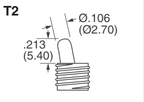

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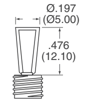

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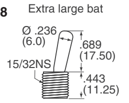

Fig.	Circuit	Switching Function	Actuator	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 2M1 – Miniature											
1	SPDT	On-On	T1	B1	M1	Q	432-1143-ND◆	3.12	2.40	1.68	2M1-SP1-T1-B1-M1QE
	SPDT	On-Off-On	T1	B1	M1	Q	432-1144-ND◆	3.93	3.03	2.12	2M1-SP3-T1-B1-M1QE
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	432-1145-ND	4.23	3.25	2.28	2M1-SP4-T1-B1-M1QE
	SPDT	On-Off-Mom	T1	B1	M1	Q	432-1146-ND◆	4.23	3.25	2.28	2M1-SP5-T1-B1-M1QE
	SPDT	On-Mom	T1	B1	M1	Q	432-1147-ND	3.74	2.88	2.02	2M1-SP2-T1-B1-M1QE
	DPDT	On-On	T1	B1	M1	Q	432-1148-ND	4.29	3.30	2.31	2M1-DP1-T1-B1-M1QE
	DPDT	On-Off-On	T1	B1	M1	Q	432-1149-ND◆	4.88	3.75	2.63	2M1-DP3-T1-B1-M1QE
	DPDT	On-Mom	T1	B1	M1	Q	432-1150-ND	4.88	3.75	2.63	2M1-DP2-T1-B1-M1QE
	3PDT	On-On	T1	B1	M1	Q	432-1151-ND◆	9.13	7.03	4.92	2M1-3P1-T1-B1-M1QE
	SPDT	On-On	T6	B1	M1	Q	432-1153-ND◆	3.35	2.58	1.81	2M1-SP1-T6-B1-M1QE
	SPDT	On-Off-On	T6	B1	M1	Q	432-1154-ND	4.16	3.20	2.24	2M1-SP3-T6-B1-M1QE
	SPDT	On-Mom	T6	B1	M1	Q	432-1155-ND◆	3.93	3.03	2.12	2M1-SP2-T6-B1-M1QE
	DPDT	On-On	T6	B1	M1	Q	432-1156-ND◆	4.49	3.45	2.42	2M1-DP1-T6-B1-M1QE
	SPDT	On-On	T8	B0	M1	Q	432-1157-ND	4.42	3.40	2.38	2M1-SP1-T8-B0-M1QE
	SPDT	On-Off-On	T8	B0	M1	Q	432-1158-ND	5.23	4.03	2.82	2M1-SP3-T8-B0-M1QE
	SPDT	On-Mom	T8	B0	M1	Q	432-1159-ND	5.01	3.85	2.70	2M1-SP2-T8-B0-M1QE
	SPDT	On-Off-On	T1	B9	M1	Q	432-1162-ND	4.16	3.20	2.24	2M1-SP3-T1-B9-M1QE
	DPDT	On-On	T1	B9	M1	Q	432-1163-ND	4.23	3.25	2.28	2M1-DP1-T1-B9-M1QE
	SPDT	On-On	T1	B1	M2	Q	432-1168-ND◆	3.12	2.40	1.68	2M1-SP1-T1-B1-M2QE
	SPDT	On-Off-On	T1	B1	M2	Q	432-1169-ND◆	3.93	3.03	2.12	2M1-SP3-T1-B1-M2QE
	SPDT	On-Mom	T1	B1	M2	Q	432-1170-ND	3.74	2.88	2.02	2M1-SP2-T1-B1-M2QE
	DPDT	On-On	T1	B1	M2	Q	432-1171-ND◆	4.29	3.30	2.31	2M1-DP1-T1-B1-M2QE
	DPDT	On-Off-On	T1	B1	M2	Q	432-1172-ND	4.88	3.75	2.63	2M1-DP3-T1-B1-M2QE
	DPDT	On-Mom	T1	B1	M2	Q	432-1173-ND	4.88	3.75	2.63	2M1-DP2-T1-B1-M2QE
2	SPDT	On-On	T2	B4	M6	R	432-1164-ND	3.51	2.70	1.89	2M1-SP1-T2-B4-M6RE
	SPDT	On-Off-On	T2	B4	M6	R	432-1165-ND	4.32	3.33	2.33	2M1-SP3-T2-B4-M6RE
	SPDT	On-Mom	T2	B4	M6	R	432-1166-ND◆	4.13	3.18	2.23	2M1-SP2-T2-B4-M6RE
	DPDT	On-On	T2	B4	M6	R	432-1167-ND	4.84	3.73	2.61	2M1-DP1-T2-B4-M6RE

◆ *RoHS Compliant*

Contact Material Options

Q: Moveable contact and terminals: copper alloy, silver plate; Rating: 5A @ 125VAC or 28VDC, 2A @ 250VAC

R: Moveable contact and terminals: copper alloy with gold plate over nickel plate; Rating: 0.4VA maximum @ 20V maximum (AC/DC)

Termination Options

M1
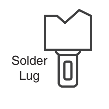

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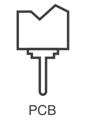

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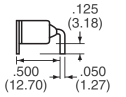

Bushing Options

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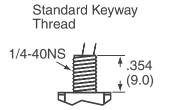

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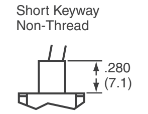

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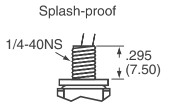

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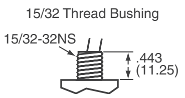

Pushbutton Switches

Fig. 1
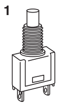

Fig. 2
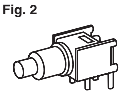

Fig. 3
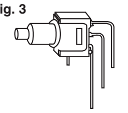

Fig. 4
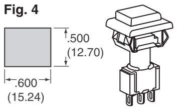

Termination Options

M1
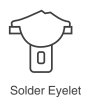

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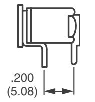

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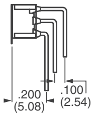

Fig.	Circuit	Switching Function	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 3S1 — Sub-Miniature Pushbutton Switches										
1	SPDT	Mom(N/C)	B5	M1	Q	432-1175-ND	9.59	7.38	5.17	3S1-SP8-B5-M1QE
2	SPDT	Mom(N/C)	B6	M6	R	432-1179-ND	9.59	7.38	5.17	3S1-SP8-B6-M6RE
Series 3MN — Snap-Acting Miniature Pushbutton Switches										
2	SPDT	Mom(N/C)	B6	M6	G	432-1192-ND	11.15	8.58	6.01	3MN-SP7-P1-B6-M6GE
	SPDT	Mom(N/C)	B6	M6	R	432-1193-ND	11.15	8.58	6.01	3MN-SP7-P1-B6-M6RE
3	SPDT	Mom(N/C)	B6	M7	G	432-1194-ND	11.15	8.58	6.01	3MN-SP7-P1-B6-M7GE
	SPDT	Mom(N/C)	B6	M7	R	432-1195-ND	11.15	8.58	6.01	3MN-SP7-P1-B6-M7RE
4	DPDT	Mom(N/C)	—	M1	G	432-1188-ND	16.54	12.73	8.91	3MN-DP7-AP2/22-M1GE
	DPDT	Mom(N/C)	—	M1	R	432-1189-ND	16.54	12.73	8.91	3MN-DP7-AP2/22-M1RE

Contact Material Options

Q: Moveable contact & terminals: copper alloy, silver plate; Rating: 1A@ 125VAC or 28VDC

R: Moveable contact & terminals: copper alloy with gold plate over nickel plate; Rating 0.4VA maximum @ 20V maximum (AC/DC)

G: Moveable contact & terminals: copper alloy, silver plate; Terminals: silver plate with outer layer in gold plating; Rating 1A@ 120VAC or 28VDC

Bushing Options

B5 - (shown) **B6 -** Unthreaded

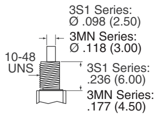

Pushbutton Switch Accessories

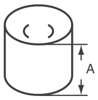

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Pricing 1	10	25	Carling Technologies Part No.
Series 3S1								
White	.291 (7.4)	.138 (3.5)	.098 (2.5)	432-1221-ND	.42	3.25	5.69	3S1-C21

Power Toggle Switches

Fig. 1
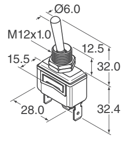

Fig. 2
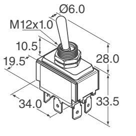

Fig. 3
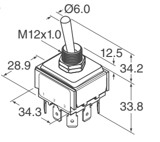

Fig.	Circuit	Functions	Terminals	Switch Current (A)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Series ST1									
1	SPST	On-Off	.250 QC	20	EG4810-ND	2.48	2.22	1.91	ST141D00
	SPDT	On-On	.250 QC	20	EG4811-ND	2.71	2.42	2.09	ST143D00
	SPST	Off-Mom	.250 QC	20	EG4812-ND	2.71	2.42	2.09	ST144D00
	SPDT	On-Off-On	.250 QC	20	EG4813-ND	2.71	2.42	2.09	ST145D00

Fig.	Circuit	Functions	Terminals	Switch Current (A)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	SPDT	Mom-Off-Mom	.250 QC	20	EG4814-ND	2.82	2.52	2.17	ST14DD00
	SPST	On-Off	Screw	20	EG4815-ND	2.71	2.42	2.09	ST161D00
	SPDT	On-On	Screw	20	EG4816-ND	2.88	2.57	2.22	ST163D00
	SPST	Off-Mom	Screw	20	EG4817-ND	2.82	2.52	2.17	ST164D00
	SPDT	On-Off-On	Screw	20	EG4818-ND	3.05	2.72	2.35	ST165D00
	SPDT	Mom-Off-Mom	Screw	20	EG4819-ND	2.93	2.62	2.26	ST16DD00
ST2 Series									
2	DPST	On-Off	.250 QC	20	EG4820-ND	4.06	3.63	3.13	ST242D00
	DPDT	On-Off-On	.250 QC	20	EG4821-ND	4.51	4.03	3.48	ST246D00
	DPST	Off-Mom	.250 QC	20	EG4822-ND	4.52	4.04	3.48	ST24ED00
	DPDT	On-On	.250 QC	20	EG4823-ND	4.51	4.03	3.48	ST24GD00
	DPDT	Mom-Off-Mom	.250 QC	20	EG4824-ND	4.68	4.18	3.61	ST24KD00
	DPST	On-Off	Screw	20	EG4825-ND	4.23	3.78	3.26	ST262D00
	DPDT	On-Off-On	Screw	20	EG4826-ND	4.51	4.03	3.48	ST266D00
	DPST	Off-Mom	Screw	20	EG4827-ND	4.68	4.18	3.61	ST26ED00
	DPDT	On-On	Screw	20	EG4828-ND	4.51	4.03	3.48	ST26GD00
	DPDT	Mom-Off-Mom	Screw	20	EG4829-ND	4.68	4.18	3.61	ST26KD00
ST3 Series									
3	3PST	On-Off	.250 QC	24	EG4830-ND	10.21	9.12	7.86	ST34RE00
	3PDT	On-On	.250 QC	24	EG4831-ND	11.28	10.07	8.68	ST34SE00
	3PDT	On-Off-On	.250 QC	24	EG4832-ND	11.28	10.07	8.68	ST34TE00

E•SWITCH® Toggle Switches

Fig. 1 — Vertical

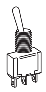

Fig. 2 — Horizontal Right Angle

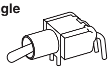

Fig. 3 — Vertical Right Angle

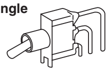

Note: All switches come complete with mounting hardware.

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy Contact Rating: 5A @120VAC or 28VDC; 2A @ 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate Contact Rating: 0.4VA maximum at 20VAC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
100 Series — Miniature Toggle Switches (Metal Bushing)												
1	SPDT	On-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2350-ND	2.76	2.47	2.13	100SP1T1B1M1QEH
	SPDT	On-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2351-ND	3.00	2.68	2.31	100SP1T1B1M1REH
	SPDT	On-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2352-ND	2.76	2.47	2.13	100SP1T1B1M2QEH
	SPDT	On-On	T1	B1	M2	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2353-ND	3.00	2.68	2.31	100SP1T1B1M2REH
	SPDT	On-On	T1	B1	M5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2354-ND	3.58	3.20	2.76	100SP1T1B1M51REH
	SPDT	On-On	T1	B4	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2355-ND	2.65	2.37	2.04	100SP1T1B4M2QE
	SPDT	On-On	T1	B6	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2357-ND	3.16	2.83	2.44	100SP1T1B6M1QEH
	SPDT	On-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2358-ND	3.29	2.94	2.54	100SP1T1B9M1QEH
	SPDT	On-On	T2	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2359-ND	2.76	2.47	2.13	100SP1T2B1M1QEH
	SPDT	On-On	T2	B3	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2360-ND	2.76	2.47	2.13	100SP1T2B3M1QEH
	SPDT	On-On	T2	B3	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2361-ND	2.76	2.47	2.13	100SP1T2B3M2QEH
	SPDT	On-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2367-ND	2.90	2.59	2.23	100SP1T4B1M1QEH
	SPDT	On-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2368-ND	3.77	3.37	2.90	100SP1T6B11M1QEH
	SPDT	On-On	T6	B11	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2369-ND	4.01	3.58	3.09	100SP1T6B11M1REH
	SPDT	On-On	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2370-ND	3.77	3.37	2.90	100SP1T6B11M2QEH
	SPDT	On-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2372-ND	4.10	3.66	3.16	100SP1T8B13M1QEH
	SPDT	On-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2373-ND	2.96	2.65	2.28	100SP2T1B1M1QEH
	SPDT	On-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2374-ND	3.97	3.54	3.05	100SP2T6B11M1QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2375-ND	3.10	2.77	2.39	100SP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2376-ND	3.34	2.99	2.58	100SP3T1B1M1REH
	SPDT	On-Off-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2377-ND	3.10	2.77	2.39	100SP3T1B1M2QEH
	SPDT	On-Off-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2380-ND	3.64	3.25	2.80	100SP3T1B9M1QEH
	SPDT	On-Off-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2385-ND	3.24	2.90	2.50	100SP3T4B1M1QEH
	SPDT	On-Off-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2386-ND	4.11	3.67	3.17	100SP3T6B11M1QEH
	SPDT	On-Off-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2387-ND	4.45	3.97	3.42	100SP3T8B13M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2388-ND	3.52	3.14	2.71	100SP4T1B1M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2389-ND	3.52	3.14	2.71	100SP4T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2390-ND	4.05	3.62	3.12	100SP4T1B9M1QEH
	SPDT	Mom-Off-Mom	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2392-ND	4.52	4.04	3.48	100SP4T6B11M2QEH
	SPDT	Mom-Off-Mom	T6	B12	VS5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG4563-ND	6.32	5.65	4.87	100SP4T6B12VS5REH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2393-ND	3.72	3.33	2.87	100SP5T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2394-ND	3.71	3.31	2.85	100SP5T1B1M2QEH
	DPDT	On-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2398-ND	3.69	3.30	2.84	100DP1T1B1M1QEH
	DPDT	On-On	T1	B1	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2399-ND	4.07	3.64	3.13	100DP1T1B1M1REH
	DPDT	On-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2400-ND	3.69	3.30	2.84	100DP1T1B1M2QEH
	DPDT	On-On	T1	B1	M2	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2401-ND	4.07	3.64	3.13	100DP1T1B1M2REH
	DPDT	On-On	T2	B3	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2403-ND	3.69	3.30	2.84	100DP1T2B3M1QEH
	DPDT	On-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2407-ND	5.14	4.59	3.95	100DP1T4B1M1QEH
	DPDT	On-On	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2408-ND	4.70	4.20	3.62	100DP1T6B11M1QEH
	DPDT	On-On	T6	B11	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2409-ND	5.08	4.53	3.91	100DP1T6B11M1REH
	DPDT	On-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2410-ND	5.03	4.50	3.88	100DP1T8B13M1QEH
	DPDT	On-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2411-ND	3.90	3.48	3.00	100DP2T1B1M1QEH
	DPDT	On-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2412-ND	4.88	4.35	3.75	100DP2T6B11M1QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2413-ND	4.31	3.85	3.32	100DP3T1B1M1QEH
	DPDT	On-Off-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2414-ND	4.31	3.85	3.32	100DP3T1B1M2QEH
	DPDT	On-Off-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2415-ND	4.84	4.33	3.73	100DP3T1B9M1QEH
	DPDT	On-Off-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2417-ND	4.45	3.97	3.42	100DP3T4B1M1QEH
	DPDT	On-Off-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2418-ND	5.66	5.05	4.35	100DP3T8B13M1QEH
	DPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2419-ND	4.59	4.10	3.53	100DP4T1B1M1QEH
	DPDT	Mom-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2420-ND	5.59	5.00	4.31	100DP4T6B11M1QEH
	DPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2421-ND	4.72	4.22	3.64	100DP5T1B1M1QEH
	3PDT	On-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2424-ND	7.58	6.76	5.83	1003P1T1B1M1QEH
	3PDT	On-On	T1	B1	M2	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2425-ND	7.58	6.76	5.83	1003P1T1B1M2QEH
	3PDT	On-Off-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2426-ND	8.06	7.20	6.20	1003P3T1B1M1QEH
	4PDT	On-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 16.51 x 12.06)	EG2428-ND	10.75	9.59	8.27	1004P1T1B1M1QEH
	4PDT	On-Off-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2429-ND	11.51	10.27	8.85	1004P3T1B1M1QEH
	4PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2430-ND	12.20	10.89	9.39	1004P4T1B1M1QEH
	DPDT	On-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2406-ND	5.10	4.56	3.93	100DP1T2B4VS2RE
	DPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2416-ND	5.72	5.11	4.41	100DP3T2B4VS2RE
	SPDT	On-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2365-ND	3.65	3.26	2.81	100SP1T2B4VS2QE
	SPDT	On-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2366-ND	3.88	3.46	2.99	100SP1T2B4VS2RE
	SPDT	On-Off-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2383-ND	3.98	3.55	3.06	100SP3T2B4VS2QE
	SPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2384-ND	4.21	3.76	3.24	100SP3T2B4VS2RE
	SPDT	On-Off-On	T1	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2379-ND	4.21	3.76	3.24	100SP3T1B4VS2RE
	SPDT	Mom-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2391-ND	4.58	4.09	3.52	100SP4T2B4M6RE
	SPDT	On-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2395-ND	4.77	4.26	3.68	100SP5T2B4M6RE
	DPDT	On-On	T2	B4	M6	Q	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2404-ND	4.76	4.25	3.66	100DP1T2B4M6QE
	DPDT	On-On	T2	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2405-ND	5.14	4.59	3.96	100DP1T2B4M6RE
	SPDT	On-On	T1	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2356-ND	3.84	3.44	2.96	100SP1T1B4M6RE
2	SPDT	On-On	T2	B4	M6	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2362-ND	3.61	3.23	2.78	100SP1T2B4M6QE
	SPDT	On-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2363-ND	3.84	3.44	2.96	100SP1T2B4M6RE
	SPDT	On-On	T6	B12	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2371-ND	4.82	4.30	3.71	100SP1T6B12M6RE
	SPDT	On-Off-On	T1	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2378-ND	4.18	3.73	3.22	100SP3T1B4M6RE
	SPDT	On-Off-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2381-ND	4.18	3.73	3.22	100SP3T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2364-ND	4.12	3.68	3.17	100SP1T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2382-ND	4.45	3.97	3.43	100SP3T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2396-ND	5.05	4.51	3.89	100SP5T2B4M7RE
100A Series — Process-Sealed Miniature Toggle Switches (Plastic Bushing)												
1	SPDT	On-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2432-ND	3.87	3.46	2.98	100AWSP1T1B4M2RE
	SPDT	On-On	T2	B4	VS2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2436-ND	5.00	4.46	3.85	100AWSP1T2B4VS2RE
	SPDT	On-Off-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2437-ND	4.23	3.78	3.26	100AWSP3T1B4M2RE
	SPDT	Mom-Off-Mom	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2439-ND	4.74	4.24	3.65	100AWSP4T1B4M2RE
	DPDT	On-On	T1	B4	M2	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2443-ND	4.48	4.00	3.45	100AWDP1T1B4M2RE
2	SPDT	On-On	T1	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2433-ND	5.17	4.62	3.98	100AWSP1T1B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2435-ND	5.51	4.92	4.24	100AWSP1T2B4M7RE
	SPDT	Mom-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2441-ND	6.38	5.69	4.91	100AWSP4T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2442-ND	6.53	5.83	5.02	100AWSP5T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2438-ND	5.87	5.24	4.52	100AWSP3T2B4M7RE
	DPDT	On-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2444-ND	6.24	5.57	4.80	100AWDP1T2B4M7RE
	DPDT	On-Off-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2445-ND	6.53	5.83	5.03	100AWDP3T2B4M7RE
Caps for 100 Series												
Vinyl Toggle Cap, White, for T1 Actuators								EG2470-ND	.35	.32	.28	T1001WHTTOGGLECAP
Vinyl Toggle Cap, Black, for T1 Actuators								EG2471-ND	.35	.32	.28	T1002BLKTOGGLECAP

Actuators

T1 — Standard

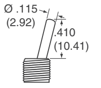

T2 — Mini

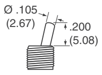

T4 — Extended Bat

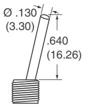

T6 — Flattened

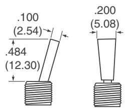

T8 — Large Bat

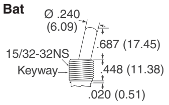

Bushings

B1

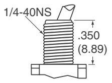

B3
B4 (Unthreaded)

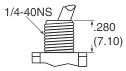

B6

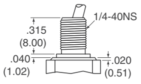

B9

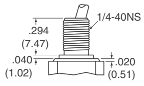

B11
B12 (Unthreaded)

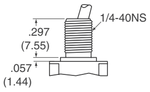

B13 — Large Threaded

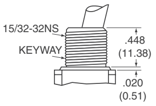

Termination Options

M1 — Eyelet Terminal

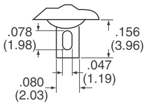

THK .030 (0.76)

M2 — PC Mount

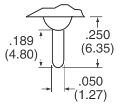

THK .030 (0.76)

M5 — Wirewrap Terminal

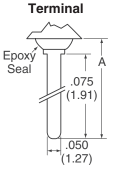

M6 — SPDT

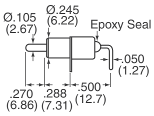

M7 — SPDT

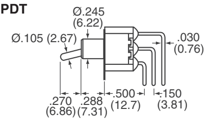

VS2 — Vertical with Bracket

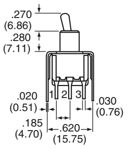

VS5 — Vertical with Bracket

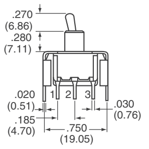

E•SWITCH® Toggle Switches

Fig. 1 — Vertical

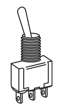

Fig. 2 — Horizontal Right Angle

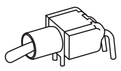

Fig. 3 — Vertical Right Angle

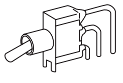

Note: All switches come complete with mounting hardware.

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy. **Contact Rating:** 5A @ 28VAC or VDC; 2A @ 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate. **Contact Rating:** 0.4VA maximum at 20VAC or DC maximum

Actuators

T1

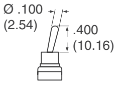

T2

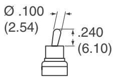

Bushings

A1

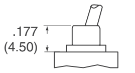

B1
B2 (Unthreaded)

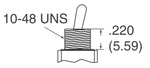

Termination Options

M1 — Eyelet Terminal

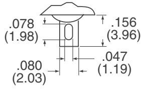

THK .030 (0.76)

M2

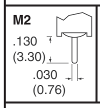

M6

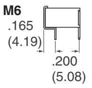

M7

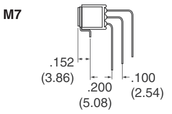

Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			E-Switch Part No.
			Actuator	Bushing	Termination				1	10	100	
							200 Series — Subminiature Toggle Switches					
1	SPDT	On-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2446-ND	2.79	2.50	2.15	200MSP1T1B1M1QEH
	SPDT	On-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2447-ND	2.79	2.50	2.15	200MSP1T1B1M2QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2450-ND	3.76	3.36	2.89	200MSP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2451-ND	3.76	3.36	2.89	200MSP3T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2453-ND	3.93	3.51	3.03	200MSP4T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2454-ND	3.93	3.51	3.03	200MSP5T1B1M1QEH
	DPDT	On-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2455-ND	3.93	3.51	3.03	200MDP1T1B1M1QEH
	DPDT	On-On	T1	B1	M2	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2456-ND	3.93	3.51	3.03	200MDP1T1B1M2QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2458-ND	4.62	4.13	3.56	200MDP3T1B1M1QEH
2	SPDT	On-Off-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2452-ND	5.01	4.47	3.86	200MSP3T2B2M6RE
	SPDT	On-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2448-ND	4.04	3.61	3.11	200MSP1T2B2M6RE
	DPDT	On-On	T2	B2	M6	R	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2457-ND	5.40	4.82	4.15	200MDP1T2B2M6RE
3	SPDT	On-On	T2	B2	M7	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2449-ND	4.47	3.99	3.44	200MSP1T2B2M7RE
							200A Series — Process-Sealed Subminiature Toggle Switches					
1	SPDT	On-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2459-ND	4.24	3.79	3.27	200AWMSP1T1A1M2RE
	SPDT	On-Mom	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2461-ND	4.38	3.91	3.37	200AWMSP2T1A1M2RE
	SPDT	On-Off-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2463-ND	4.24	3.79	3.27	200AWMSP3T1A1M2RE
	DPDT	On-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2465-ND	5.65	5.04	4.35	200AWMDP1T1A1M2RE
	DPDT	On-Off-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2467-ND	6.54	5.84	5.04	200AWMDP3T1A1M2RE
2	SPDT	On-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2460-ND	5.49	4.90	4.23	200AWMSP1T2A1M6RE
	SPDT	On-Off-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2464-ND	5.49	4.90	4.23	200AWMSP3T2A1M6RE
	DPDT	On-Off-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2468-ND	7.86	7.02	6.05	200AWMDP3T2A1M6RE

NKK SWITCHES Process Sealed Miniature Toggle Switches

M2T Series: Interior bushing is sealed with O-ring which surrounds the actuator. Bushing and top of the housing are one molded piece, achieving the exterior seal. Ultrasonic welding is used to seal the bushing unit to the base. Terminals are epoxy sealed for safeguarding the switch at the base. **Features: • Electrical Capacity:** Logic Level (code G): 0.4VA maximum @ 28V AC/DC maximum. **• Dielectric Strength:** 1,000VAC minimum between contacts; 1,500VAC minimum between contacts and case. **• Mechanical Life:** 100,000 operations minimum **• Electrical Life:** 50,000 operations minimum for gold **• Operating Temperature Range:** -30°C ~ 85°C
B Series: Sealed body construction permits switches to be subjected to time- and money-saving automated soldering techniques. Can be safely cleaned of flux without fear of compromising operating characteristics. **Features: • Electrical Capacity:** Logic Level: 0.4VA maximum @ 28V AC/DC maximum **• Dielectric Strength:** 500VAC minimum **• Mechanical Life:** 100,000 operations minimum for On-On and On-Off-On **• Electrical Life:** 50,000 operations minimum **• Operating Temperature Range:** -30°C ~ 85°C
G3T Series: Ultra-miniature size allows high density mounting, and extremely light weight of 0.6 gram makes these switches ideal for handheld equipment. Combination of design features achieves total seal and allows automated processing techniques, including flux cleaning procedures: one-piece bushing and housing, rubber seals surrounding actuator and base, epoxy at joint of case and base, and molded-in, epoxy sealed terminals. **Features: • Electrical Capacity:** Logic Level: 0.4VA maximum @ 28V AC/DC maximum **• Dielectric Strength:** 500VAC minimum **• Mechanical Life:** 50,000 operations minimum **• Electrical Life:** 50,000 operations minimum **• Operating Temperature Range:** -30°C ~ 85°C

I

Fig. 1

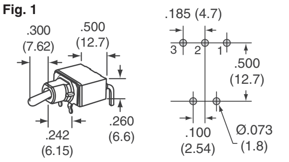

Fig. 2

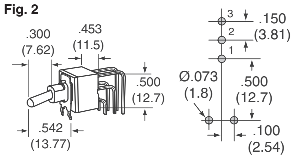

Fig. 3

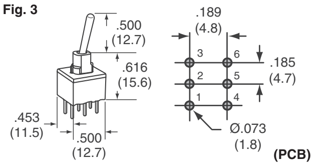

(PCB)

Fig. 4

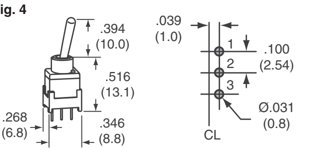

(PCB)

Fig. 5

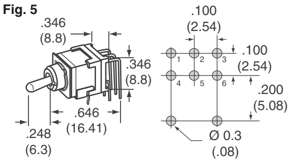

Fig. 6

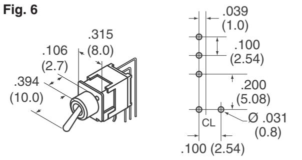

Fig. 7

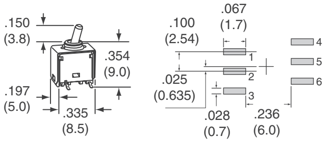

Fig. 8

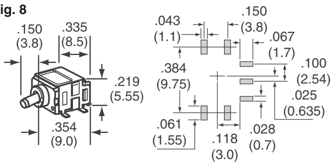

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each			NKK Part No.
				1	25	100	
			Washable Mini Toggle Switches				
1	SPDT	On-On	360-1877-ND	5.30	3.53	3.17	M2T12S4A5G30-RO
	SPDT	Mom-Off-Mom	360-1882-ND	6.40	4.26	3.82	M2T18S4A5G30-RO
	SPDT	On-On	360-1879-ND	5.30	3.53	3.17	M2T12SA5G30-RO
	SPDT	On-Off-On	360-1880-ND*	5.77	3.85	3.45	M2T13S4A5G30-RO
2	SPDT	On-On	360-1878-ND	5.56	3.71	3.32	M2T12S4A5G40-RO
	SPDT	On-Off-On	360-1881-ND	6.03	4.02	3.60	M2T13S4A5G40-RO
	SPDT	Mom-Off-Mom	360-1883-ND	6.40	4.43	3.92	M2T18S4A5G40-RO
	DPDT	On-On	360-1884-ND	8.40	5.95	5.25	M2T22S4A5G40-RO
3	SPDT	On-On	360-1180-ND	5.01	3.19	2.92	M2T12SA5G03
	SPDT	On-Off-On	360-1181-ND	5.20	3.46	3.10	M2T13SA5G03
	SPDT	Mom-Off-Mom	360-1182-ND	5.82	3.88	3.48	M2T18SA5G03
	DPDT	On-On	360-1183-ND	7.05	4.80	4.32	M2T22SA5G03
			Washable Sub-Mini Antistatic Toggle Switches				
4	SPDT	On-On	360-1012-ND	4.29	2.67	2.42	B12AP
	SPDT	On-Off-On	360-1013-ND	4.31	2.78	2.47	B13AP
	SPDT	On-Mom	360-1014-ND	4.42	2.85	2.53	B15AP
	DPDT	On-On	360-1015-ND	5.18	3.36	3.08	B22AP
	DPDT	On-Off-On	360-1016-ND	5.36	3.57	3.20	B23AP
	SPDT	On-On	360-2108-ND◊	4.54	2.84	2.60	B12JB-RO

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each			NKK Part No.
				1	25	100	
4	SPDT	On-On	360-1751-ND	4.87	3.05	2.79	B12JH-RO
5	SPDT	On-Off-On	360-1753-ND	4.95	3.15	2.88	B13JH-RO
	SPDT	On-Mom	360-1754-ND	5.06	3.22	2.95	B15JH-RO
	DPDT	On-On	360-1755-ND	5.98	3.98	3.57	B22JH-RO
	DPDT	On-Off-On	360-1756-ND	6.34	4.23	3.79	B23JH-RO
6	SPDT	On-On	360-1752-ND	4.87	3.05	2.79	B12JV-RO
			Washable Ultra Mini SMT Toggle Switches				
7	SPDT	On-On	360-1774-ND	5.20	3.46	3.10	G3T12AP-RO
	SPDT	On-Off-On	360-1778-ND	5.56	3.71	3.32	G3T13AP-RO
	DPDT	On-On	360-1779-ND	6.65	4.61	4.07	G3T22AP-RO

◊ Actual Length .248”   * Actual Length .500”

Fig.	Cir-cuit	Switching Function	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 500	NKK Part No.
				1	25	100			
			Washable Ultra-Miniature SMT Toggle Switch						
8	SPDT	On-On	360-1773-1-ND	6.36	5.09	4.03	360-1773-2-ND	1484.00	G3T12AH-R-RO
	SPDT	On-Off-On	360-1775-1-ND	6.78	5.43	4.30	—	—	G3T13AH-R-RO

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NKK SWITCHES

Miniature Toggle Switches

M Series: Over 350,000 different configurations possible, with the most popular listed here. Epoxy sealed terminals, high torque bushings, anti-jamming levers. Available as PCB mount or solder lug terminal for ease of wiring. • **Dielectric strength:** 1,500VAC minimum • **Mechanical Life:** 100,000 operations minimum, 50,000 operations minimum for flat and locking lever • **Electrical Life:** 25,000 operations minimum • **Operating Temperature:** -30°C ~ 85°C • **Angle of Throw:** 25° • **Standard Hardware:** 2 hex nuts, 1 locking ring, 1 lockwasher

M Series Miniature Toggle Sample Kit

Kit includes 1 each of switches denoted. Also includes plastic storage case, bin storage guide and hardware.

§ 360-2293-ND 18 Pieces Total — ***RoHS Compliant*** **$35.00**

Dimensions in mm

Fig. 1

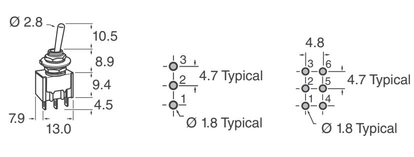

(SPDT Shown) **(SPDT)** **(DPDT)**

Fig. 2

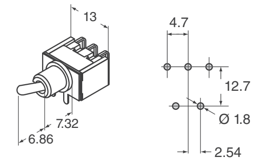

(DPDT Shown)

Fig. 3

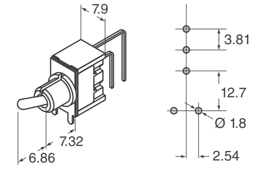

Fig. 4

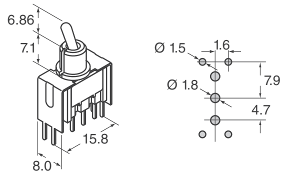

Bushings

A1

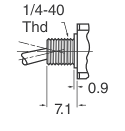

(Short Bushing)

A2

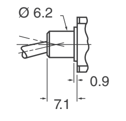

(Unthreaded)

B1

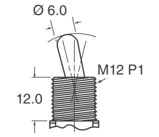

(Large)

D3

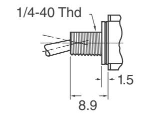

(Splashproof)

L1

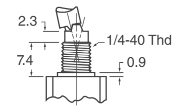

(Locking)

S1

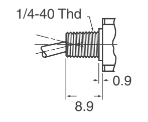

(Standard)

Actuators

S

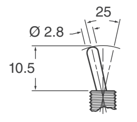

(Standard)

B

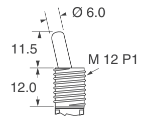

(Large)

E

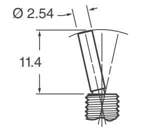

(Flat)

S2

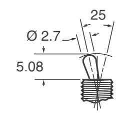

(Mini)

B2

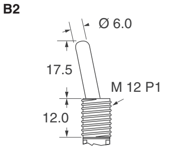

(Long Large)

L

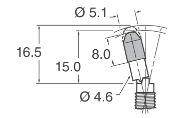

(Locking)

T

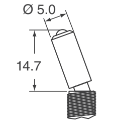

(Synchronous LED Tipped Actuator)

Circuit	Switching Function	Options		Digi-Key Part No.	Price Each			NKK Part No.
		Act-uator	Bush-ing		1	25	100	
Fig. 1 – Solder Lug 6A Silver Contacts								
SPDT	On-On	B	B1	360-1782-ND§◆	6.24	4.16	3.72	M2012BB1W01-RO
SPDT	On-Off-On	B	B1	360-1804-ND◆	6.60	4.57	4.04	M2013BB1W01-RO
SPDT	On-Off-Mom	B	B1	360-2067-ND◆	7.25	4.93	4.44	M2019BB1W01-RO
DPDT	On-On	B	B1	360-1830-ND◆	7.80	5.31	4.68	M2022BB1W01-RO
DPDT	On-Off-On	B	B1	360-1846-ND◆	8.35	5.92	5.22	M2023BB1W01-RO
3PDT	On-On	B	B1	360-1858-ND◆	10.58	7.50	6.90	M2032BB1W01-RO
SPDT	On-On	B2	B1	360-1781-ND◆	6.45	4.30	3.85	M2012B2B1W01-RO
SPDT	On-Off-On	B2	B1	360-1803-ND◆	6.80	4.71	4.17	M2013B2B1W01-RO
SPDT	Mom-Off-Mom	B2	B1	360-2061-ND◆	7.45	5.07	4.56	M2018B2B1W01-RO
DPDT	On-On	B2	B1	360-1829-ND◆	8.00	5.44	4.80	M2022B2B1W01-RO
DPDT	On-Off-On	B2	B1	360-1845-ND◆	8.54	6.06	5.34	M2023B2B1W01-RO
SPDT	On-On	E	S1	360-1784-ND◆	5.13	3.33	3.04	M2012ES1W01-RO
SPDT	On-Off-On	E	S1	360-1806-ND◆	5.56	3.71	3.32	M2013ES1W01-RO
SPDT	On-Mom	E	S1	360-2056-ND◆	6.14	4.09	3.66	M2015ES1W01-RO
SPDT	Mom-Off-Mom	E	S1	360-2062-ND◆	6.24	4.16	3.72	M2018ES1W01-RO
SPDT	On-Off-Mom	E	S1	360-2068-ND◆	6.24	4.16	3.72	M2019ES1W01-RO
SP3T	On-On-On	E	S1	360-2072-ND◆†	8.59	6.09	5.37	M2024ES1W01-RO
DPDT	On-On	E	S1	360-1832-ND◆	6.55	4.54	4.01	M2022ES1W01-RO
DPDT	On-Off-On	E	S1	360-1848-ND◆	7.45	5.07	4.56	M2023ES1W01-RO
DPDT	On-Mom	E	S1	360-2075-ND◆	8.06	5.72	5.04	M2025ES1W01-RO
DPDT	On-Off-On	E	S1	360-2308-ND◆	8.35	5.92	5.22	M2028ES1W01-RO
DPDT	On-Off-Mom	E	S1	360-2079-ND§◆	8.35	5.92	5.22	M2029ES1W01-RO
3PDT	On-On	E	S1	360-1860-ND◆	9.84	6.69	6.15	M2032ES1W01-RO
3PDT	On-Off-On	E	S1	360-1867-ND◆	11.34	8.22	7.31	M2033ES1W01-RO
4PDT	On-On	E	S1	360-1870-ND◆	12.33	8.94	7.95	M2042ES1W01-RO
SPDT	On-On	L	L1	360-1787-ND§◆	6.40	4.43	3.92	M2012LL1W01-RO
SPDT	On-Off-On	L	L1	360-1809-ND	7.00	4.76	4.29	M2013LL1W01-RO
SPDT	On-Mom	L	L1	360-2057-ND	7.55	5.14	4.53	M2015LL1W01-RO
DPDT	On-On	L	L1	360-1834-ND§◆	7.87	5.58	4.92	M2022LL1W01-RO
DPDT	On-Off-On	L	L1	360-1849-ND§◆	8.74	6.01	5.46	M2023LL1W01-RO
3PDT	On-On	L	L1	360-1861-ND◆	10.95	7.76	7.14	M2032LL1W01-RO
3PDT	On-Off-On	L	L1	360-1868-ND◆	12.83	9.30	8.27	M2033LL1W01-RO
4PDT	On-On	L	L1	360-1871-ND◆	13.51	9.83	8.91	M2042LL1W01-RO
SPDT	On-On	S	S1	360-1801-ND§◆	4.29	2.67	2.42	M2012SS1W01-RO
SPDT	On-Off-On	S	S1	360-1816-ND§◆	4.82	3.01	2.76	M2013SS1W01-RO
SPDT	On-Mom	S	S1	360-2059-ND◆	5.24	3.40	3.11	M2015SS1W01-RO
SPDT	Mom-Off-Mom	S	S1	360-2065-ND◆	5.35	3.47	3.17	M2018SS1W01-RO
SPDT	On-Off-Mom	S	S1	360-2070-ND◆	5.35	3.47	3.17	M2019SS1W01-RO
SP3T	On-On-On	S	S1	360-2073-ND◆†	7.90	5.38	4.74	M2024SS1W01-RO
DPDT	On-On	S	S1	360-1843-ND◆	5.72	3.81	3.41	M2022SS1W01-RO
DPDT	On-Off-On	S	S1	360-1852-ND◆	6.40	4.43	3.92	M2023SS1W01-RO
DPDT	On-Mom	S	S1	360-2076-ND◆	7.35	5.00	4.50	M2025SS1W01-RO
DPDT	Mom-Off-Mom	S	S1	360-2078-ND◆	7.65	5.21	4.59	M2028SS1W01-RO
DPDT	On-Off -Mom	S	S1	360-2080-ND◆	7.65	5.21	4.59	M2029SS1W01-RO
DP3T	On-On-On	S	S1	360-2082-ND◆‡	16.19	11.78	10.68	M2044SS1W01-RO
3PDT	On-On	S	S1	360-1865-ND◆	8.83	6.08	5.52	M2032SS1W01-RO
3PDT	On-Off-On	S	S1	360-1869-ND◆	10.63	7.54	6.93	M2033SS1W01-RO
3PDT	Mom-Off-Mom	S	S1	360-2081-ND◆	12.78	9.26	8.24	M2038SS1W01-RO
4PDT	On-On	S	S1	360-1874-ND◆	11.39	8.25	7.34	M2042SS1W01-RO
4PDT	On-Off-On	S	S1	360-1876-ND◆	13.29	9.67	8.76	M2043SS1W01-RO
SPDT	On-On	S	D3	360-1088-ND◆	5.13	3.33	3.04	M2012SD3W01
SPDT	On-Off-On	S	D3	360-1089-ND◆	5.56	3.71	3.32	M2013SD3W01
SPDT	On-Mom	S	D3	360-1090-ND§◆	6.14	4.09	3.66	M2015SD3W01
SPDT	Mom-Off-Mom	S	D3	360-1091-ND◆	6.24	4.16	3.72	M2018SD3W01
SPDT	On-Off-Mom	S	D3	360-1092-ND◆	6.24	4.16	3.72	M2019SD3W01
DPDT	On-On	S	D3	360-1093-ND◆	6.55	4.54	4.01	M2022SD3W01
DPDT	On-Off-On	S	D3	360-1094-ND§◆	7.45	5.07	4.56	M2023SD3W01
DPDT	Mom-Off-Mom	S	D3	360-1095-ND◆	8.35	5.92	5.22	M2028SD3W01
SPDT	On-On	S2	A1	360-1788-ND◆	4.29	2.67	2.42	M2012S2A1W01-RO
DPDT	On-On	S2	A1	360-1835-ND◆	5.72	3.81	3.41	M2022S2A1W01-RO
SPDT	On-On	S2	S1	360-1795-ND◆	4.29	2.67	2.42	M2012S2S1W01-RO
Fig. 1 – Solder Lug .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	B2	B1	360-1780-ND	6.75	4.68	4.14	M2012B2B1G01-RO
DPDT	On-On	B2	B1	360-1828-ND	8.78	6.04	5.49	M2022B2B1G01-RO
SPDT	On-On	E	S1	360-1783-ND§	5.51	3.67	3.29	M2012ES1G01-RO
SPDT	On-Off-On	E	S1	360-1805-ND	6.14	4.09	3.66	M2013ES1G01-RO
SP3T	On-On-On	E	S1	360-1855-ND†	9.70	6.59	6.06	M2024ES1G01-RO
DPDT	On-On	E	S1	360-1831-ND	7.70	5.24	4.62	M2022ES1G01-RO
DPDT	On-Off-On	E	S1	360-1847-ND	8.26	5.85	5.16	M2023ES1G01-RO
3PDT	On-On	E	S1	360-1859-ND	10.99	7.80	7.17	M2032ES1G01-RO
SPDT	On-On	L	L1	360-1786-ND	6.95	4.81	4.26	M2012LL1G01-RO
SPDT	On-Off-On	L	L1	360-1808-ND	7.55	5.14	4.53	M2013LL1G01-RO
SPDT	On-Mom	L	L1	360-1818-ND	8.10	5.51	4.86	M2015LL1G01-RO
DPDT	On-On	L	L1	360-1833-ND	8.98	6.18	5.61	M2022LL1G01-RO
SPDT	On-On	S	D3	360-1140-ND§	5.51	3.67	3.29	M2012SD3G01
SPDT	On-Off-On	S	D3	360-1141-ND	6.14	4.09	3.66	M2013SD3G01
SPDT	Mom-Off-Mom	S	D3	360-1143-ND	6.55	4.54	4.01	M2018SD3G01
DPDT	On-On	S	D3	360-1144-ND	7.70	5.24	4.62	M2022SD3G01
SPDT	On-On	S	S1	360-1799-ND	4.76	2.98	2.72	M2012SS1G01-RO
SPDT	On-Off-On	S	S1	360-1814-ND	5.24	3.40	3.11	M2013SS1G01-RO
SPDT	On-Mom	S	S1	360-1819-ND	5.62	3.74	3.35	M2015SS1G01-RO
SPDT	Mom-Off-Mom	S	S1	360-1823-ND	5.72	3.81	3.41	M2018SS1G01-RO
SPDT	On-Off-Mom	S	S1	360-1826-ND	5.72	3.81	3.41	M2019SS1G01-RO
DPDT	On-On	S	S1	360-1841-ND	6.65	4.61	4.07	M2022SS1G01-RO
SP3T	On-On-On	S	S1	360-1856-ND§†	8.69	5.98	5.43	M2024SS1G01-RO
3PDT	On-On	S	S1	360-1863-ND	10.03	7.11	6.54	M2032SS1G01-RO
4PDT	On-On	S	S1	360-1872-ND	13.41	9.72	8.65	M2042SS1G01-RO
Fig. 1 – PC Terminal 6A Silver Contacts								
SPDT	On-On	E	S1	360-1785-ND§◆	5.29	3.43	3.14	M2012ES1W03-RO
SPDT	On-Off-On	E	S1	360-1151-ND	5.43	3.62	3.24	M2013ES1W03
SPDT	On-Off-On	E	S1	360-1807-ND◆	5.72	3.81	3.41	M2013ES1W03-RO
SPDT	Mom-Off-Mom	E	S1	360-2063-ND◆	6.40	4.26	3.82	M2018ES1W03-RO
SPDT	On-On	S	S1	360-1802-ND◆	4.31	2.78	2.47	M2012SS1W03-RO
SPDT	On-Off-On	S	S1	360-1817-ND◆	4.90	3.12	2.85	M2013SS1W03-RO
SPDT	On-Mom	S	S1	360-2060-ND◆	5.20	3.46	3.10	M2015SS1W03-RO
SPDT	On-Off-Mom	S	S1	360-2071-ND◆	5.30	3.53	3.17	M2019SS1W03-RO
SPDT	Mom-Off-Mom	S	S1	360-1081-ND	5.79	4.64	3.67	M2018SS1W03
SPDT	Mom-Off-Mom	S	S1	360-2066-ND◆	5.30	3.53	3.17	M2018SS1W03-RO
SP3T	On-Off-On	S	S1	360-2074-ND◆†	7.82	5.55	4.89	M2024SS1W03-RO
DPDT	On-On	S	S1	360-1844-ND◆	5.98	3.98	3.57	M2022SS1W03-RO

◆ ***RoHS Compliant*** † SP3T uses a Dp Body ‡ DP3T uses a 4p Body

(Continued)

Miniature Toggle Switches *(Cont.)*

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
DPDT	On-Off-On	S	S1	360-1853-ND§◆	6.65	4.61	4.07	M2023SS1W03-RO
3PDT	On-On	S	S1	360-1866-ND§◆	9.22	6.34	5.76	M2032SS1W03-RO
4PDT	On-On	S	S1	360-1875-ND◆	11.84	8.58	7.63	M2042SS1W03-RO
SPDT	On-On	S2	A1	360-1789-ND◆	4.31	2.78	2.47	M2012S2A1W03-RO
Fig. 1 – PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S	S1	360-1800-ND	4.84	3.08	2.82	M2012SS1G03-RO
SPDT	On-Off-On	S	S1	360-1815-ND	5.20	3.46	3.10	M2013SS1G03-RO
SPDT	On-Mom	S	S1	360-1820-ND	5.77	3.85	3.45	M2015SS1G03-RO
SPDT	Mom-Off-Mom	S	S1	360-1824-ND	5.88	3.91	3.51	M2018SS1G03-RO
SPDT	On-Off-Mom	S	S1	360-1827-ND	5.88	3.91	3.51	M2019SS1G03-RO
SP3T	On-On-On	S	S1	360-1857-ND	8.93	6.14	5.58	M2024SS1G03-RO
DPDT	On-On	S	S1	360-1842-ND	6.90	4.78	4.23	M2022SS1G03-RO
DPDT	On-Off-On	S	S1	360-1851-ND	7.80	5.31	4.68	M2023SS1G03-RO
3PDT	On-On	S	S1	360-1864-ND	10.40	7.37	6.78	M2032SS1G03-RO
4PDT	On-On	S	S1	360-1873-ND	13.55	9.86	8.94	M2042SS1G03-RO
Fig. 2 – Right Angle PC Terminal 6A Silver Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1794-ND	4.84	3.08	2.82	M2012S2A2W30-RO
DPDT	On-On	S2	A2	360-1838-ND	6.85	4.75	4.20	M2022S2A2W30-RO
Fig. 2 – Right Angle PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S	A2	360-1796-ND	5.35	3.47	3.17	M2012SA2G30-RO
SPDT	On-On	S2	A2	360-1791-ND	5.35	3.47	3.17	M2012S2A2G30-RO
SPDT	On-Off-On	S2	A2	360-1810-ND	5.77	3.85	3.45	M2013S2A2G30-RO
SPDT	Mom-Off-Mom	S2	A2	360-1821-ND§	6.45	4.30	3.85	M2018S2A2G30-RO
DPDT	On-On	S2	A2	360-1836-ND	8.00	5.44	4.80	M2022S2A2G30-RO
3PDT	On-On	S2	A2	360-1862-ND	11.70	8.48	7.54	M2032S2A2G30-RO
Fig. 3 – Vertical Right Angle PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1792-ND	5.41	3.60	3.23	M2012S2A2G40-RO
SPDT	On-Off-Mom	S2	A2	360-1825-ND	6.45	4.47	3.95	M2019S2A2G40-RO
DPDT	On-On	S2	A2	360-1837-ND	8.26	5.85	5.16	M2022S2A2G40-RO

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Fig. 4 – Vertical Bracket PC Terminal 6A Silver Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1793-ND	4.59	2.87	2.63	M2012S2A2W13-RO
Fig. 4 – Vertical Bracket PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1790-ND§	5.12	3.26	2.98	M2012S2A2G13-RO

Circuit	Switching Function	Options Act-uator	Options Bush-ing	LED Color	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No
Fig. 1 – Solder Lug 6A Silver Contacts — RoHS Compliant									
SPDT	On-On	T	S1	Red/Green	360-2311-ND	9.84	6.69	6.15	M2112TCFW01-RO
	On-On	T	S1	Red	360-2312-ND	8.95	6.16	5.60	M2112TCW01-RO
	On-On	T	S1	Green	360-2313-ND	8.95	6.16	5.60	M2112TFW01-RO
	On-Off-On	T	S1	Red/Green	360-2314-ND	10.65	7.55	6.95	M2113TCFW01-RO
	On-Off-On	T	S1	Red	360-2315-ND	9.78	6.93	6.38	M2113TCW01-RO
	On-Off-On	T	S1	Green	360-2316-ND	9.78	6.93	6.38	M2113TFW01-RO
DPDT	On-On	T	S1	Red/Green	360-2317-ND	13.86	10.08	9.14	M2122TCFW01-RO
	On-On	T	S1	Red	360-2318-ND	13.34	9.67	8.60	M2122TCW01-RO
	On-On	T	S1	Green	360-2319-ND	13.34	9.67	8.60	M2122TFW01-RO
	On-Off-On	T	S1	Red	360-2310-ND	14.15	10.29	9.33	M2123TCW01-RO
	On-Off-On	T	S1	Red/Green	360-2320-ND	14.96	10.88	9.86	M2123TCFW01-RO

◆ ***RoHS Compliant*** † SP3T uses a Dp Body ‡ DP3T uses a 4p Body

Splashproof Boots

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Black for 1/4-40 Thd Bushing and .413" (10.49mm) Bat Height	360-1750-ND	3.48	2.15	1.90	AT428H
Gray for M12 Bushing and .689" (17.50mm) Bat Height	360-1706-ND	4.29	2.67	2.42	AT402H
Red for M12 Bushing and .689" (17.50mm) Bat Height	360-1707-ND	4.29	2.67	2.42	AT402C
Yellow for M12 Bushing and .689" (17.50mm) Bat Height	360-1708-ND	4.29	2.67	2.42	AT402E

Power Toggle Switches

Features:

• NKK offers one of the most extensive lines of power toggle switches • Standard switching currents of 15, 25 and 30 Amps • Locking lever type is ideal for preventing accidental switching, lever must be pulled out then switched • All toggles come complete with mounting hardware

Specifications:

• **Dielectric Strength:** 2000V AV minimum • **Mechanical Life:** 50,000 operations minimum • **Operating Temperature:** -10°C ~ 70°C

S Series Toggle Sample Kit

Kit includes 1 each of switches denoted except 360-1001-ND, 360-1002-ND and 360-1003-ND which have 2 each.
Also includes plastic storage case, bin storage guide and hardware.

★ **360-2309-ND** 17 Pieces Total........................... **$63.00**

Fig. 1 — Solder Terminal

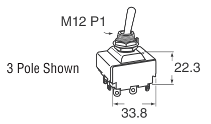

Fig. 2 — QC Terminal

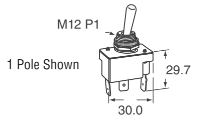

Fig. 3 — Locking Lever

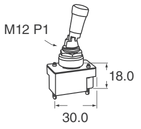

Fig. 4 — Screw Terminal

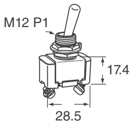

Fig. 5 Dimensions in mm

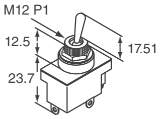

Fig. 6 — HD Screw Terminal

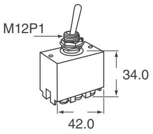

Fig. 7

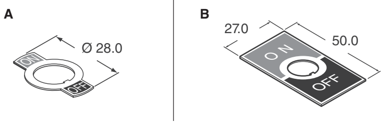

Red/Black Background with "ON" and "OFF" in White Lettering

Fig. 8

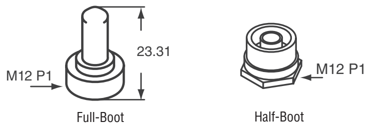

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Medium and High Capacity, Solder Lug								
1	SPST	On-Off	15A	360-1896-ND§★	5.28	3.52	3.15	S301-RO
	SPDT	On-On	15A	360-1898-ND§	5.28	3.52	3.15	S302-RO
	SPDT	On-Off-On	15A	360-1900-ND§	5.75	3.83	3.43	S303-RO
	SPDT	On-Mom	15A	360-1902-ND‡	5.85	3.90	3.49	S305-RO
	SPDT	Mom-Off-Mom	15A	360-1904-ND‡	5.98	3.98	3.57	S308-RO
	SPDT	On-Off-Mom	15A	360-1906-ND‡★	6.21	4.14	3.71	S309-RO
	DPST	On-Off	25A	360-2087-ND§	7.65	5.21	4.59	S331-RO
	DPDT	On-On	25A	360-2089-ND§	7.65	5.21	4.59	S332-RO
	DPDT	On-Off-On	25A	360-1909-ND§	8.64	5.94	5.40	S333-RO
	DPDT	On-Mom	15A	360-1911-ND§	8.69	5.98	5.43	S335-RO
	DPDT	Mom-Off-Mom	15A	360-1913-ND†	9.46	6.51	5.91	S338-RO
	DPDT	On-Off-Mom	15A	360-1915-ND†	9.46	6.51	5.91	S339-RO
	3PST	On-Off	25A	360-2083-ND‡	9.98	7.08	6.51	S31-RO
	3PDT	On-On	25A	360-2085-ND‡	10.26	7.27	6.69	S32-RO
	3PDT	On-Off-On	25A	360-1908-ND‡	11.02	7.81	7.19	S33-RO
	3PDT	On-Mom	15A	360-1918-ND§	11.02	7.81	7.19	S35-RO
	3PDT	Mom-Off-Mom	15A	360-1919-ND§	11.02	7.81	7.19	S38-RO
	4PST	On-Off	25A	360-2091-ND‡★	11.54	8.37	7.44	S41-RO
	4PDT	On-On	25A	360-2093-ND‡	11.54	8.37	7.44	S42-RO
	4PDT	On-Off-On	25A	360-1923-ND‡	12.40	8.99	7.99	S43-RO
	4PDT	On-Mom	15A	360-1925-ND†	12.40	8.99	7.99	S45-RO
Medium and High Capacity, .250" (6.35mm) Quick Connect								
2	SPST	On-Off	15A	360-1887-ND	4.84	3.08	2.82	S1F-RO
	SPDT	On-On	15A	360-1895-ND	5.33	3.55	3.18	S2F-RO
	SPDT	On-Off-On	15A	360-1922-ND★	5.56	3.71	3.32	S3F-RO
	DPST	On-Off	15A	360-1889-ND	6.43	4.45	3.94	S21F-RO
	DPDT	On-On	20A	360-1929-ND	7.88	5.36	4.73	S6F-RO
	DPDT	On-Off-On	20A	360-1932-ND	7.93	5.39	4.76	S7F-RO
	3PST	On-Off	25A	360-2084-ND§★	10.76	7.63	7.02	S31F-RO

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
2	3PDT	On-On	25A	360-2086-ND§	11.02	7.81	7.19	S32F-RO
	3PDT	On-Off-On	25A	360-1917-ND§	11.59	8.40	7.47	S33F-RO
	4PST	On-Off	25A	360-2092-ND§	12.20	8.84	7.86	S41F-RO
	4PDT	On-On	25A	360-2094-ND§	12.56	9.10	8.10	S42F-RO
	4PDT	On-Off-On	25A	360-1924-ND§	13.41	9.72	8.65	S43F-RO
Medium Capacity, Solder Lug, Locking Lever with Panel Seal								
3	SPST	On-Off	15A	360-1885-ND	12.71	9.21	8.20	S1AL-RO
	SPDT	On-On	15A	360-1893-ND★	13.75	10.00	9.07	S2AL-RO
	SPDT	On-Off-On	15A	360-1920-ND	14.04	10.21	9.26	S3AL-RO
	DPDT	On-On	20A	360-1927-ND	16.46	11.97	10.85	S6AL-RO
	DPDT	On-Off-On	20A	360-1930-ND	16.57	12.05	10.74	S7AL-RO
Medium Capacity, Screw Lug								
4	SPST	On-Off	15A	360-1897-ND§	5.80	3.86	3.46	S301T-RO
	SPDT	On-On	15A	360-1899-ND§★	5.98	3.98	3.57	S302T-RO
	SPDT	On-Off-On	15A	360-1901-ND§	6.32	4.21	3.77	S303T-RO
	SPDT	On-Mom	15A	360-1903-ND‡	6.21	4.14	3.71	S305T-RO
	SPDT	Mom-Off-Mom	15A	360-1905-ND‡	6.58	4.55	4.03	S308T-RO
	SPDT	On-Off-Mom	15A	360-1907-ND‡	6.58	4.55	4.03	S309T-RO
	DPST	On-Off	15A	360-2088-ND§	8.21	5.82	5.13	S331T-RO
	DPDT	On-On	15A	360-2090-ND§	8.64	5.94	5.40	S332T-RO
	DPDT	On-Off-On	15A	360-1910-ND§	9.67	6.57	6.05	S333T-RO
	DPDT	On-Mom	15A	360-1912-ND§★	9.94	6.75	6.21	S335T-RO
	DPDT	Mom-Off-Mom	15A	360-1914-ND§	9.98	7.08	6.51	S338T-RO
	DPDT	On-Off-Mom	15A	360-1916-ND§	10.26	7.27	6.69	S339T-RO
Medium Capacity, Solder Lug with Panel Seal								
5	SPDT	On-Off	15A	360-1886-ND	10.24	7.26	6.68	S1AW-RO
	SPDT	On-On	15A	360-1894-ND	11.16	7.91	7.28	S2AW-RO
	SPDT	On-Off-On	15A	360-1921-ND	11.48	8.32	7.40	S3AW-RO

§ UL/CSA † UL ‡ CSA

(Continued)

Power Toggle Switches *(Cont.)*

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
5	SPDT	On-Mom	15A	360-1926-ND	10.65	7.55	6.95	S5AW-RO
	SPDT	Mom-Off-Mom	15A	360-1933-ND★	11.22	7.96	7.32	S8AW-RO
	SPDT	On-Off-Mom	15A	360-1934-ND	11.22	7.96	7.32	S9AW-RO
	DPDT	On-On	20A	360-1928-ND	13.86	10.08	9.14	S6AW-RO
	DPDT	On-Off-On	20A	360-1931-ND	13.93	10.13	9.18	S7AW-RO
	DPST	On-Off	15A	360-1888-ND	12.56	9.10	8.10	S21AW-RO
	DPDT	On-Mom	15A	360-1890-ND	13.93	10.13	9.18	S25AW-RO
	DPDT	Mom-Off-Mom	15A	360-1891-ND	14.48	10.53	9.55	S28AW-RO
	DPDT	On-Off-Mom	15A	360-1892-ND	14.48	10.53	9.55	S29AW-RO

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
High Capacity, Screw Lug								
6	DPST	On-Off	30A	360-2096-ND§	23.00	17.60	16.10	S821-RO
	DPDT	On-On	30A	360-2097-ND§	23.86	18.26	16.71	S822-RO
	DPDT	On-Off-On	30A	360-2098-ND§	24.10	18.08	16.87	S823-RO
	3PST	On-Off	30A	360-2099-ND§	33.01	25.40	23.71	S831-RO
	3PDT	On-On	30A	360-2100-ND§	38.76	29.58	28.05	S832-RO
	3PDT	On-Off-On	30A	360-2101-ND§	38.82	29.63	28.10	S833-RO
	DPDT	On-On	50A	360-2095-ND	51.21	40.14	37.37	S732-RO
Power Toggle Accessories								
7A	On-Off-Plate, 12mm, Nickel, Brass			360-1001-ND★	1.04	.58	.49	AT201
	On-Off-Plate, 12mm, Red/Black			360-1003-ND★	2.56	1.52	1.36	AT214
7B	On-Off-Plate, 12mm, Red/Black			360-1002-ND★	2.56	1.52	1.36	AT202
8	Splashproof Half-Boot, Black			360-1605-ND★	3.48	2.15	1.90	AT401A
	Splashproof Full-Boot, Black			360-1606-ND★	4.29	2.67	2.42	AT402A

§ UL/CSA † UL ‡ CSA

Environmentally Sealed Switches

For use in outdoor or harsh applications.

Features:
• Sealing at front and back panel meets IP67 of IEC60529 and IP60 Standards • Single unit construction of bushing and case gives added protection from environmental elements • Anti-jamming design protects contacts from damage due to excessive downward force on the toggle • Specially designed contact mechanism for breaking light contact welds • Minimal contact bounce achieved with designed interlocked switching mechanism

Specifications:
• **Electrical Capacity:** Toggle: 6A @ 125VAC (WB Series), 10A @ 125VAC; Rocker: 15A @ 125VAC • **Dielectric Strength:** Toggle: 1,500VAC minimum; Rocker: 3,750VAC minimum between contacts and case • **Mechanical Life:** 30,000 operations minimum • **Electrical Life:** 15,000 operations minimum • **Operating Temperature:** Toggle: -30°C ~ 70°C; Rocker: -25°C ~ 85°C • **Angle of Throw:** 24° • **Panel Thickness:** .157" (4.0mm) • **Standard Hardware:** Toggle: 1 hex nut, 1 lockwasher, 1 O-ring • **Color:** Black

Dimensions in mm

Fig. 1

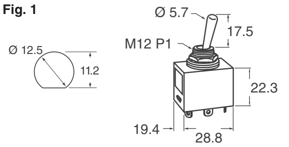

Fig. 2

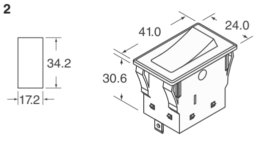

Fig. 3

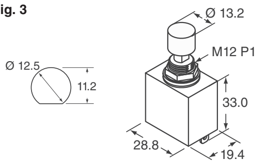

Fig. 4

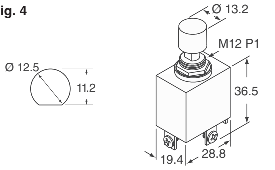

Fig.	Switching Circuit	Termin-ation	Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Sealed Toggle — 10A								
1	SPST	Solder Lug	On-Off	360-1951-ND	11.81	8.56	7.62	WT11S-RO
	SPST	Screw Lug	On-Off	360-1952-ND	12.67	9.18	8.17	WT11T-RO
	SPDT	Solder Lug	On-On	360-1953-ND	12.56	9.10	8.10	WT12S-RO
	SPDT	Screw Lug	On-On	360-1954-ND	13.39	9.70	8.63	WT12T-RO
	SPDT	Solder Lug	On-Off-On	360-1955-ND	13.16	9.54	8.49	WT13S-RO
	SPDT	Screw Lug	On-Off-On	360-1956-ND	13.71	9.97	9.04	WT13T-RO
	DPST	Solder Lug	On-Off	360-1957-ND	16.94	12.32	10.98	WT21S-RO
	DPST	Screw Lug	On-Off	360-1958-ND	17.70	13.07	12.02	WT21T-RO
	DPDT	Solder Lug	On-On	360-1959-ND	16.80	12.40	11.40	WT22S-RO
	DPDT	Screw Lug	On-On	360-1960-ND	18.33	13.54	12.45	WT22T-RO
	DPDT	Solder Lug	On-Off-On	360-1961-ND	18.33	13.54	12.45	WT23S-RO
	DPDT	Screw Lug	On-Off-On	360-1962-ND	19.85	14.65	13.47	WT23T-RO
Sealed Rocker — 15A								
2	SPST	.250" QC	On-Off	360-2277-ND	11.22	7.96	7.32	WR11AF
	SPST	Solder Lug	On-Off	360-1507-ND	11.22	7.96	7.32	WR11AS
	SPST	Solder Lug	On-Off	360-1510-NDΔ	11.22	7.96	7.32	WR11BS
	SPDT	.250" QC	On-On	360-2278-ND	11.54	8.37	7.44	WR12AF
	SPDT	Solder Lug	On-On	360-1513-ND	11.54	8.37	7.44	WR12AS
	SPDT	Solder Lug	On-On	360-1516-NDΔ	11.54	8.37	7.44	WR12BS
	SPDT	.250" QC	On-Off-On	360-2279-ND	12.15	8.81	7.83	WR13AF
	SPDT	Solder Lug	On-Off-On	360-1519-ND	12.15	8.81	7.83	WR13AS
	SPDT	Solder Lug	On-Off-On	360-1522-NDΔ	12.15	8.81	7.83	WR13BS
	SPDT	.250" QC	On-Mom	360-2280-ND	13.34	9.67	8.60	WR15AF
	SPDT	.250" QC	Mom-Off-Mom	360-2281-ND	14.74	10.72	9.72	WR18AF
	SPDT	.250" QC	On-Off-Mom	360-2282-ND	14.74	10.72	9.72	WR19AF
Sealed Pushbutton with Cap — 6A								
3	SPDT	Solder Lug	On-On	360-2398-ND	18.59	13.72	12.62	WB12S-DA-RO
	SPDT	Solder Lug	On-Mom	360-2400-ND	19.38	14.31	13.16	WB15S-DA-RO
4	SPDT	Screw Lug	On-On	360-2399-ND	19.38	14.31	13.16	WB12T-DA-RO
	SPDT	Screw Lug	On-Mom	360-2401-ND	20.16	14.88	13.68	WB15T-DA-RO

Δ Ivory

Fully Illuminated Toggle and Paddle Switches

TL Series:
Interior O-ring protects contacts from oil, dust, water, and other contaminants **Specifications:** • Power Level: 6A @ 125VAC • Electrical Life: 25,000 operations minimum • Sealing Ring: Nitrile butadiene rubber • Operating Temperature: -10°C ~ 55°C • IP65 Panel seal when used with optional AT401P O-ring

G Series:
Totally sealed body construction prevents contact contamination and allows time and money saving automated soldering and washing **Specifications:** • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 100,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Non-Illuminated • Operating Temperature: -25°C ~ 85°C • Illuminated Operating Temperature: -25°C ~ 55°C

GW Series:
World's smallest fully illuminated paddles for highly visible status indication. Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer. **Specifications:** • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 50,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Operating Temperature: -25°C ~ 55°C

Fig. 1

Dimensions in mm

Hardware Included

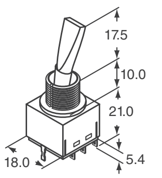

Fig. 2

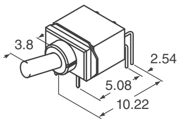

Fig. 3

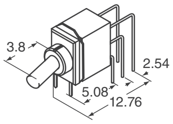

Fig. 4

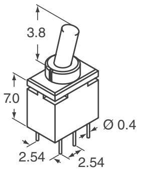

Fig. 5

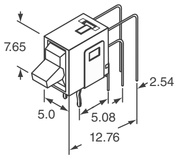

Fig.	Switch Circuit	Actuator Function	Illumination Color	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Fully Illuminated Toggle Switches									
1	DPDT	On-On	Red	Bright Red	360-1939-ND	12.62	9.15	8.14	TL22DCAW015C-RO
	DPDT	On-On	Amber	Bright Amber	360-1940-ND	12.62	9.15	8.14	TL22DDAW015D-RO
	DPDT	On-On	Green	Bright Green	360-1941-ND	12.62	9.15	8.14	TL22DFAW015F-RO
	DPDT	On-On	Clear	Super Bright White	360-1942-ND	15.14	11.01	9.98	TL22DNAW016B-RO
	DPDT	On-On	Clear	Super Bright Blue	360-1944-ND	15.14	11.01	9.98	TL22DNAW016G-RO
	DPDT	On-On	Clear	Super Bright Green	360-1943-ND	15.14	11.01	9.98	TL22DNAW016F-RO
—	Panel Seal O-Ring for TL Toggles				360-1719-ND	.98	.52	.44	AT401P
Ultra-Miniature Fully Illuminated Toggle Switches Process Sealed									
2	SPDT	On-On	Clear	Red	360-1760-ND	7.63	5.19	4.58	G12JHC-RO
	SPDT	On-On	Clear	Amber	360-1762-ND	7.63	5.19	4.58	G12JHD-RO
	SPDT	On-On	Clear	Green	360-1763-ND	7.63	5.19	4.58	G12JHF-RO
	SPDT	On-On	Clear	Red/Green	360-1761-ND	8.59	6.09	5.37	G12JHCF-RO
	SPDT	On-Off-On	Clear	Red/Green	360-1771-ND	8.90	6.13	5.57	G13JHCF-RO
3	SPDT	On-On	Clear	Red	360-1764-ND	7.63	5.19	4.58	G12JVC-RO
	SPDT	On-On	Clear	Amber	360-1766-ND	7.63	5.19	4.58	G12JVD-RO
	SPDT	On-On	Clear	Green	360-1767-ND	7.63	5.19	4.58	G12JVF-RO
	SPDT	On-On	Clear	Red/Green	360-1765-ND	8.59	6.09	5.37	G12JVCF-RO
	SPDT	On-Off-On	Clear	Red/Green	360-1772-ND	8.90	6.13	5.57	G13JVCF-RO
4	SPDT	On-On	Clear	Red	360-1686-ND	6.80	4.71	4.17	G12JPC
	SPDT	On-On	Clear	Amber	360-1689-ND	6.80	4.71	4.17	G12JPD
	SPDT	On-On	Clear	Green	360-1692-ND	6.80	4.71	4.17	G12JPF
	SPDT	On-On	Clear	Red/Green	360-1695-ND	7.80	5.53	4.88	G12JPCF
	SPDT	On-Off-On	Clear	Red/Green	360-1698-ND	8.11	5.75	5.07	G13JPCF
Ultra-Miniature Non-Illuminated Toggle Switches Process Sealed									
2	SPDT	On-On	Gray	—	360-1757-ND	5.06	3.22	2.95	G12AH-RO
	SPDT	On-Off-On	Gray	—	360-1768-ND	5.18	3.36	3.08	G13AH-RO
3	SPDT	On-Off-On	Gray	—	360-1759-ND	5.06	3.22	2.95	G12AV-RO
	SPDT	On-Off-On	Gray	—	360-1770-ND	5.18	3.36	3.08	G13AV-RO
4	SPDT	On-On	Gray	—	360-1758-ND	4.48	2.80	2.56	G12AP-RO
	SPDT	On-Off-On	Gray	—	360-1769-ND	4.70	2.94	2.69	G13AP-RO
Ultra Thin Fully Illuminated Paddles									
5	SPDT	On-On	Clear	Amber	360-2118-ND	6.53	4.52	4.00	GW12LJVD-RO

Professional/Industrial Toggle Switches

Fig.	Circuit	Function	Switch Current	Terminals	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPDT	On-On	4A	Solder Lug	679-1199-ND	15.30	13.95	12.60	11136A
	SPDT	Mom-Off-Mom	4A	Solder Lug	679-1200-ND	19.11	17.43	15.74	11137A
	SPDT	On-Off-On	4A	Solder Lug	679-1202-ND	18.16	16.56	14.96	11139A
	DPDT	On-On	4A	Solder Lug	679-1203-ND	21.35	19.47	17.59	11146A
2	DPDT	On-On	4A	Solder Lug	679-1205-ND	40.66	37.08	33.49	12146A
	DPDT	Mom-Off-Mom	4A	Solder Lug	679-1206-ND	47.91	43.68	39.46	12147A
	DPDT	On-Off-Mom	4A	Solder Lug	679-1207-ND	47.84	43.62	39.40	12148A
	DPDT	On-Off-On	4A	Solder Lug	679-1208-ND	43.86	39.99	36.12	12149A
	3PDT	On-Off-Mom	4A	Solder Lug	679-1209-ND	32.44	27.03	23.97	12158A
3	SPST	On-Off	15A	Screw	679-1210-ND	4.79	4.38	3.95	631H
	SPST	On-Off	15A	.250"QC	679-1211-ND	4.52	4.13	3.73	631H/2
	SPST	On-Off	15A	.250"QC	679-1212-ND†	17.58	16.03	14.48	631H/22V
	SPST	On-Off	15A	.250"QC	679-1213-ND	10.06	9.18	8.29	631H/2K
	SPDT	On-Mom	10A	Screw	679-1214-ND	6.87	6.27	5.66	635H
	SPDT	On-Mom	10A	.250"QC	679-1215-ND	6.46	5.89	5.32	635H/2
	SPDT	On-On	15A	Screw	679-1216-ND	5.78	5.27	4.76	636H
	SPDT	On-On	15A	.250"QC	679-1217-ND	5.34	4.87	4.40	636H/2
	SPDT	Mom-Off-Mom	10A	Screw	679-1218-ND	6.87	6.27	5.66	637H
	SPDT	Mom-Off-Mom	10A	.250"QC	679-1219-ND	5.68	5.18	4.68	637H/2
	SPDT	On-Off-Mom	10A	Screw	679-1220-ND	6.87	6.27	5.66	638H
	SPDT	On-Off-Mom	10A	.250"QC	679-1221-ND	5.75	5.24	4.74	638H/2
	SPDT	On-Off-On	10A	Screw	679-1222-ND	5.85	5.34	4.82	639H
	SPDT	On-Off-On	10A	.250"QC	679-1223-ND	5.44	4.96	4.48	639H/2
	DPST	On-Off	15A	Screw	679-1225-ND	8.26	7.54	6.81	641H
	DPST	On-Off	15A	.250"QC	679-1226-ND	7.72	7.04	6.36	641H/2
	DPST	On-Off	15A	.250"QC	679-1227-ND†	22.51	20.53	18.54	641H/22V
	DP3T	On-On-On	10A	.250"QC	679-1228-ND	11.05	10.08	9.10	644H/2
	DP3T	Mom-On-Mom	10A	.250"QC	679-1229-ND	12.17	11.10	10.03	644H/22R
	DPDT	On-Mom	10A	.250"QC	679-1230-ND	11.05	10.08	9.10	645H/2
	DPDT	On-On	15A	Screw	679-1231-ND	10.00	9.12	8.24	646H
	DPDT	On-On	15A	.250"QC	679-1232-ND	9.15	8.34	7.54	646H/2
	DPDT	Mom-Off-Mom	10A	Screw	679-1233-ND	11.97	10.92	9.86	647H
	DPDT	Mom-Off-Mom	10A	.250"QC	679-1234-ND	9.76	8.90	8.04	647H/2
	DPDT	On-Off-Mom	10A	.250"QC	679-1236-ND	11.05	10.08	9.10	648H/2
	DPDT	On-Off-On	10A	Screw	679-1237-ND	10.20	9.30	8.40	649H
	DPDT	On-Off-On	10A	.250"QC	679-1238-ND	9.38	8.56	7.73	649H/2
	3PST	On-Off	15A	.250"QC	679-1239-ND	15.10	13.77	12.44	651H/2
	3PDT	On-On	15A	Screw	679-1240-ND	18.60	16.96	15.32	656H
	3PDT	Mom-Off-Mom	10A	.250"QC	679-1243-ND	18.26	16.65	15.04	657H/2
	3PDT	On-Off-On	10A	.250"QC	679-1244-ND	17.58	16.03	14.48	659H/2
4	SPST	On-Off	15A	Screw	679-1245-ND	4.79	4.38	3.95	631NH
	SPST	On-Off	15A	.250"QC	679-1246-ND	4.52	4.13	3.73	631NH/2
	SPDT	On-Off-On	10A	.250"QC	679-1249-ND	5.44	4.96	4.48	639NH/2
	DPST	On-Off	15A	.250"QC	679-1250-ND	7.72	7.04	6.36	641NH/2
	DPDT	Mom-Off-Mom	10A	.250"QC	679-1252-ND	11.05	10.08	9.10	647NH/2
	DPDT	On-Off-On	10A	.250"QC	679-1254-ND	9.38	8.56	7.73	649NH/2
	3PST	On-Off	15A	.250"QC	679-1255-ND	13.36	12.19	11.01	651NH/2
5	SPDT	On-On	20A	Screw	679-1257-ND	32.50	29.64	26.77	3536001N000
	SPDT	Mom-Off-Mom	15A	Screw	679-1258-ND	33.49	30.54	27.58	3537001N000
6	SPST	On-Off	6A	.110"QC	679-1259-ND	4.05	3.69	3.34	4631A22UU
	SPDT	On-On	6A	.110"QC	679-1260-ND	4.90	4.47	4.04	4636A22UU
	SPDT	On-Off-On	6A	.110"QC	679-1261-ND	5.30	4.84	4.37	4639A22UU
	DPST	On-Off	6A	.110"QC	679-1262-ND	5.41	4.93	4.46	4641A22UU
	DPDT	On-On	6A	.110"QC	679-1263-ND	7.04	6.42	5.80	4646A22UU
	DPDT	On-Off-On	6A	.110"QC	679-1264-ND	7.48	6.82	6.16	4649A22UU
7	SPST	On-Off	12A	Screw	679-1265-ND	15.40	14.05	12.69	3631NF
	SPST	On-Off	12A	Solder Lug	679-1266-ND	14.72	13.43	12.13	3631NF/2
	SPDT	On-Mom	12A	Screw	679-1267-ND	19.04	17.36	15.68	3635NF
	SPDT	On-On	12A	Screw	679-1269-ND	17.37	15.85	14.31	3636NF
	SPDT	On-On	12A	Solder Lug	679-1270-ND	16.32	14.88	13.44	3636NF/2
	SPDT	Mom-Off-Mom	12A	Solder Lug	679-1272-ND	17.99	16.40	14.82	3637NF/2
	DPST	On-Off	12A	Screw	679-1275-ND	20.43	18.64	16.83	3641NF
	DPST	On-Off	12A	Solder Lug	679-1276-ND	19.11	17.43	15.74	3641NF/2
	DPDT	On-On	12A	Solder Lug	679-1280-ND	21.22	19.35	17.48	3646NF/2
	DPDT	Mom-Off-Mom	12A	Screw	679-1281-ND	26.69	24.34	21.98	3647NF

† Locking Lever

Fig. 1 –
11000 Series

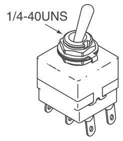

Fig. 2 –
12000 Series

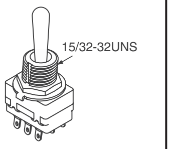

Fig. 3 –
600H Series

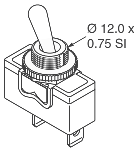

Fig. 4 –
600NH Series

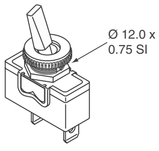

Fig. 5 –
3500 Series – IP67

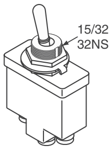

Fig. 6 –
4600 Series

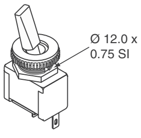

Fig. 7 –
3600NF Series –
Sealed

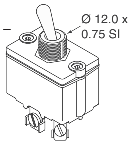

Sealing Boots

Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Full-Boot, Nickel Plated Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1286-ND	3.57	3.26	2.94	U1031
Full-Boot, Matte Black Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1285-ND	3.23	2.95	2.66	U1024
Half-Boot, Nickel Plated Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1295-ND	2.45	2.24	2.02	U1600
Half-Boot, Matte Black Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1296-ND	3.23	2.95	2.66	U1602
Full-Boot, Nickel Plated Hex Nut (12mm) used for 600H and 3600 Series	679-1293-ND	4.76	4.34	3.92	U1565
Full-Boot, Matte Black Hex Nut (12mm) used for 600H and 3600 Series	679-1294-ND	5.44	4.96	4.48	U1567
Half-Boot, Nickel Plated Hex Nut (12mm) used for 600H and 3600 Series	679-1287-ND	4.76	4.34	3.92	U1151
Half-Boot, Matte Black Hex Nut (12mm) used for 600H and 3600 Series	679-1288-ND	5.44	4.96	4.48	U1153
Full-Boot, Nickel Plated Knurled Nut (1/4-40UNS) used for 11000 Series	679-1291-ND	2.41	2.21	1.99	U1331
Full-Boot, Matte Black Knurled Nut (1/4-40UNS) used for 11000 Series	679-1292-ND	5.03	4.59	4.15	U1333
Full-Boot, Nickel Plated Hex Nut (1/4-40UNS) used for 11000 Series	679-1289-ND	2.52	2.30	2.08	U1229
Full-Boot, Matte Black Hex Nut (1/4-40UNS) used for 11000 Series	679-1290-ND	2.79	2.55	2.30	U1231

Full-Boot

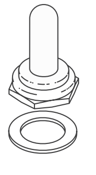

Half-Boot

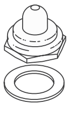

Security Guards

Security caps prevent any inadvertent lever operation. When the cap is raised, the lever can be operated freely. When the cap is fully depressed, the lever is reset/locked in a stable position. They are designed for use on switches with ø11.9mm (.468") or ø12mm (.472") threaded bushing and lever length 17.5mm (.688") outside bushing.

Materials:

- Support plate: matte black steel • Cap: thermoset material

Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Gray, Lockdown	679-1299-ND	50.59	46.13	41.67	22
Black, Lockdown	679-1300-ND	50.59	46.13	41.67	25
Red, Lockdown	679-1301-ND	50.59	46.13	41.67	26
Gray, Lockup	679-1302-ND	50.59	46.13	41.67	42
Black, Lockup	679-1303-ND	50.59	46.13	41.67	45
Red, Lockup	679-1304-ND	50.59	46.13	41.67	46

Dimensions in mm

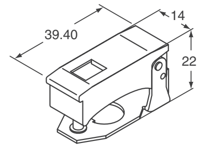

Carling Technologies™

Power Toggle Switches

General purpose workhorses with options tailored to meet most any need. International approvals, and circuit choices easily integrates into a variety of different applications. The F-Series has a storied history in the Marine, Food Service, Generator, Industrial Control, and Office Automation markets and is appropriate for usage in low voltage DC applications as well. Hardware included.

Operating Temperature: 0°F ~ 150°F (G-Series 85°C) **Thread:** 15/32 - 32UNS - 2A

Fig. 1

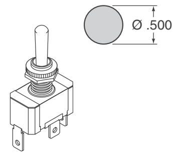

Fig. 2

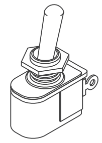

Fig. 3

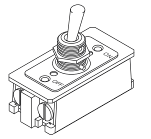

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	10	25	Carling Tech. Part No.
1	SPST	On-Off	.250" QC	15A	432-1074-ND◆	4.97	3.83	2.68	2FA53-73/TABS
	SPST	On-Off	Screw	15A	432-1075-ND	5.69	4.38	3.07	2FA54-73
	SPDT	On-On	.250" QC	15A	432-1076-ND	6.11	4.70	3.29	2FB53-73/TABS
	SPDT	On-Off-On	.250" QC	15A	432-1077-ND◆	6.11	4.70	3.29	2FC53-73/TABS
	SPDT	On-Off-On	Screw	15A	432-1078-ND◆	7.18	5.53	3.87	2FC54-73
	SPDT	Mom-Off-Mom	Screw	15A	432-1079-ND◆	10.01	7.70	5.39	6FC54-73
	DPST	On-Off	.250" QC	15A	432-1080-ND◆	7.87	6.05	4.24	2GK51-73
	DPST	On-Off	Screw	15A	432-1081-ND	9.33	7.18	5.03	2GK54-73
	DPDT	On-On	Screw	15A	432-1082-ND◆	11.57	8.90	6.23	2GL54-73
	DPDT	On-Off-On	.250" QC	15A	432-1083-ND◆	9.39	7.23	5.06	2GM51-73
	DPDT	On-Off-On	Screw	15A	432-1084-ND◆	11.57	8.90	6.23	2GM54-73
2	SPST	On-Off	Solder Lug	6A	432-1216-ND◆	6.18	4.75	3.33	110-73
	SPST	On-Off	Screw	6A	432-1217-ND	8.26	6.35	4.45	110-S-73
	SPST	On-Off	6" Wire Lead	6A	432-1086-ND	8.26	6.35	4.45	111-16-73
3	DPST	On-Off	Screw	16A	432-1087-ND◆	11.96	9.20	6.44	DK284-73

◆ ***RoHS Compliant***

Power Pushbutton Switches

Rugged metal construction, self cleaning contacts and stiff actuation force have made these switches a pillar in the music industry and audiovisual markets. High amperage combined with a low profile makes these switches ideal for "foot-pedal" applications. Hardware included.
Operating Temperature: 32°F ~ 185°F (0°C ~ 85°C)
Thread: 15/32 - 32UNS - 2A

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	10	25	Carling Tech. Part No.
1	SPST	On-Off	.250" QC	20A	432-1205-ND	12.55	9.65	6.76	PA301
2	SPST	On-Mom	Screw	15A	432-1207-ND	11.54	8.88	6.22	170
	SPST	Off-Mom	Screw	15A	432-1208-ND	11.54	8.88	6.22	172
3	SPST	On-Off	Solder Lug	6A	432-1209-ND	10.47	8.05	5.64	110-P
	SPST	On-Off	Screw	6A	432-1210-ND	10.82	8.33	5.83	110-SP
	SPDT	On-On	Solder Lug	3A	432-1211-ND	16.12	12.40	8.68	112-P
4	SPST	On-Off	Solder Lug	5A	432-1212-ND	7.64	5.88	4.12	64111210

Fig. 1

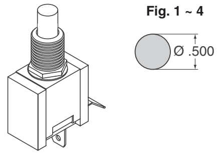

Fig. 2

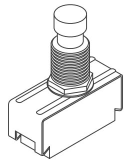

Fig. 3

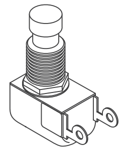

Fig. 4

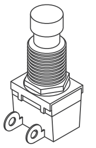

Contura II Sealed Rocker Switches

The V Series Contura II switches have been the benchmark sealed rocker switch for years. The Contura II is constructed of thermoplastic polycarbonate with a nylon 66 surface overlay and dual seal protection out to IP66/IP68 standards. Illuminated versions are superbright 12V LED for long life, .250" QC terminals for easy wiring to switch.

Specifications: • Actuator Type: Contour Rocker • Rating: 20A @ 12VDC • Contacts: Silver Cad-Oxide • Dielectric Strength: 1500V RMS • Life: 50-100K cycles depending on circuit • Terminals: .250"QC • Lighting: LED-Rated for 100K hours for half life

Terminals to be used with connector housing are 14-18AWG 42100-1, 18-22AWG 60295-2

Contura II

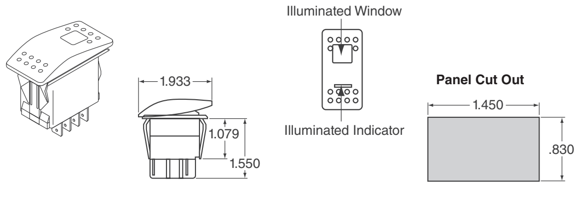

1 Position Panel Bracket

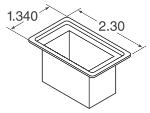

3 Position Panel Bracket

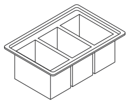

Stacking Panel Bracket

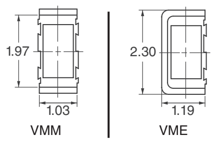

Circuit	Function	Features	Actuator Color	Digi-Key Part No.	Price Each 1	10	25	Carling Tech. Part No.
SPST	On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1088-ND	13.55	10.43	7.30	V1D2GHNB-AAC00-000
SPST	Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1089-ND◆	14.17	10.90	7.63	V2D2GHNB-AAC00-000
SPDT	On-On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1090-ND◆	18.10	13.93	9.75	VGD2GHNB-AAC00-000
SPDT	On-On	Illum. Grn. 12V/Amber 12V	Black	432-1091-ND◆	14.37	11.05	7.74	V4D2GHNB-AAC00-000
SPDT	On-Off-On	Illum. Grn. 12V/Amber 12V	Black	432-1092-ND	14.37	11.05	7.74	V6D2GHNB-AAC00-000
SPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1094-ND	15.18	11.68	8.18	V8D2UHNB-AAC00-000
SPST	On-Off	Illuminated Incan 12V	Black	432-1095-ND◆	8.58	6.60	4.62	V1D2B60B-A9C00-000
DPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1098-ND	18.66	14.35	10.05	VLD2GHNB-AAC00-000

◆ ***RoHS Compliant***

Accessories

Description	Digi-Key Part No.	Price Each 1	10	25	Carling Tech. Part No.
Removal Tool, for removing Contura Actuators	432-1100-ND	3.90	3.00	2.10	VRT
Gasket Seal for Waterproofing Switch to Panel	432-1101-ND	1.07	.83	.58	VPS-01
Connector Housing for Contura, Uses Amp 60295-2 Terminals	432-1102-ND	1.30	1.00	.70	VC1-01
Hole Plug for Filling Panel Punch Holes Not Used, Black	432-1103-ND	1.63	1.25	.88	VH2-01
Panel Bracket, Stacking Type Center Panel, Black	432-1104-ND	1.63	1.25	.88	VMM-01
Panel Bracket, Stacking Type End Panel, Black	432-1105-ND	1.63	1.25	.88	VME-01
Panel Bracket, 1 Position Switch Panel Mount, Black	432-1106-ND	1.95	1.50	1.05	VMS-01
Panel Bracket, 3 Position Switch Panel Mount, Black	432-1107-ND	4.88	3.75	2.63	VM3-01
Panel Bracket, 6 Position Switch Panel Mount, Black	432-1108-ND	9.75	7.50	5.25	VM6-01

CHERRY

Rocker Switches

Legend Marks

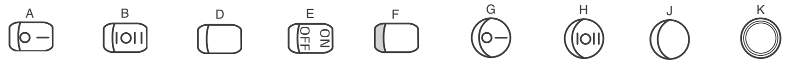

Fig. 1

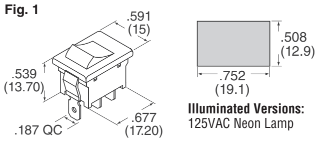

Illuminated Versions:
125VAC Neon Lamp

Fig. 2

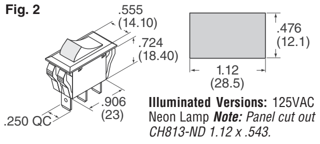

Illuminated Versions: 125VAC Neon Lamp ***Note:*** *Panel cut out CH813-ND 1.12 x .543.*

Fig. 3

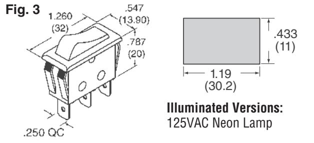

Illuminated Versions:
125VAC Neon Lamp

Fig. 4

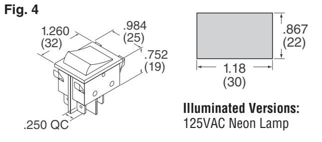

Illuminated Versions:
125VAC Neon Lamp

Fig. 5

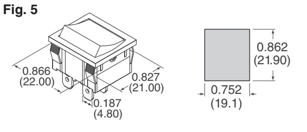

Fig. 6

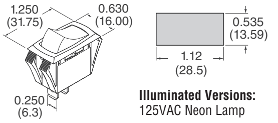

Illuminated Versions:
125VAC Neon Lamp

Fig. 7

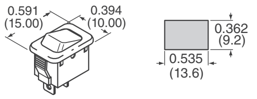

Fig. 8

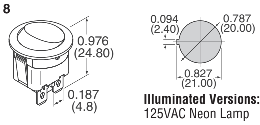

Illuminated Versions:
125VAC Neon Lamp

Fig. 9

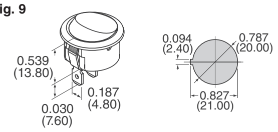

Fig. 10

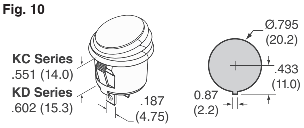

Fig. 11

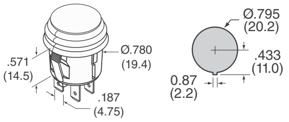

Fig. 12

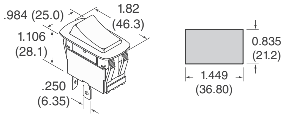

Fig. 13

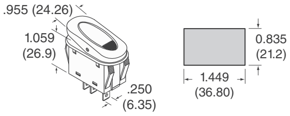

Fig. 14

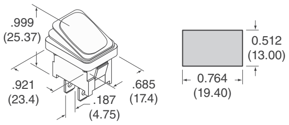

Fig. 15

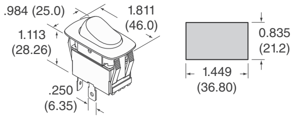

Fig. 16

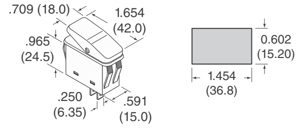

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each			Cherry Part No.
							1	10	50	
SR Series — 10 Amp Miniature Rocker Switches										
1	Black	Black	On/Off	SPST	A	CH755-ND	.92	.82	.68	SRB22A2FBBNN
	Black	Black	On/On	SPDT	D	CH756-ND	.97	.87	.72	SRB23A2BBBNN
	Black	Black	On/Off/On	SPDT	B	CH757-ND	1.13	1.01	.84	SRB24A2HBBNN
	Black	Black	On/Off	SPST	D	CH758-ND	.89	.80	.66	SRB22A2BBBNN
	Black	Black	On/Off	SPST	E	CH760-ND	.89	.80	.66	SRB22A2DBBNN
	Black	Red	On/Off	SPST	A	CH761-ND	.92	.82	.68	SRB22A2FBRNN
	Black	White	On/Off	SPST	D	CH762-ND	.86	.77	.64	SRB22A2BBWNN
LR Series — 10 Amp Multi-pole Rocker Switches										
1	Black	Black	On/Off	SPST	A	CH764-ND	1.05	.94	.78	LRA22H2FBBNN
	Black	Black	On/Off	SPST	E	CH765-ND	1.05	.94	.78	LRA22H2DBBNN
	Black	Black	On/Off	DPST	A	CH770-ND	1.16	1.04	.86	LRA32H2FBBNN
	Black	Black	On/Off	DPST	E	CH771-ND	1.16	1.04	.86	LRA32H2DBBNN
	Black	Red-Illuminated	On/Off	DPST	D	CH773-ND	1.40	1.25	1.04	LRA32H2BBRLN
	Black	Red-Illuminated	On/Off	SPST	A	CH774-ND	1.30	1.16	.96	LRA22H2FBRLN
	Black	Red-Illuminated	On/Off	DPST	A	CH775-ND	1.40	1.25	1.04	LRA32H2FBRLN
	Black	Green-Illuminated	On/Off	SPST	D	CH776-ND	1.30	1.16	.96	LRA22H2BBGLN
	Black	Green-Illuminated	On/Off	DPST	A	CH779-ND	1.40	1.25	1.04	LRA32H2FBGLN
CR Series — 20 Amp Standard Rocker Switches										
2	Black	Black	On/Off	SPST	D	CH798-ND	1.11	.99	.82	CRE22F2BBBNE
	Black	Black	On/Off	SPST	A	CH799-ND	1.11	.99	.82	CRE22F2FBBNE
	Black	Black/Red Shade	On/Off	SPST	F	CH800-ND	1.13	1.01	.84	CRE22F4BBBNE
	Black	Black/Red Shade	On/Off	SPST	E/F	CH801-ND	1.13	1.01	.84	CRE22F4DBBNE
	Black	Black/Red Shade	On/Off	SPST	A/F	CH840-ND	1.13	1.01	.84	CRE22F4FBBNE
	Black	Black	On/Off	SPST	E	CH802-ND	1.11	.99	.82	CRE22F2PBBNE
	Grey	Grey/Red Shade	On/Off	SPST	F	CH805-ND	1.11	.99	.82	CRE22F4BYYNE
	Black	Black	On/Off/On	SPDT	B	CH807-ND	1.27	1.13	.94	CRE24F2HBBNE
	Black	Red-Illuminated	On/Off	SPST	D	CH809-ND	1.38	1.23	1.02	CRE22F2BBRLE
	Black	Green-Illuminated	On/Off	SPST	D	CH811-ND	1.46	1.30	1.08	CRE22F2BBGLE
	Black	Black/Red Shade Washable	On/Off	SPST	F	CH813-ND	1.57	1.40	1.16	CRE22F4BBBNW
TR Series — 16 Amp Thin Power Rocker Switches										
3	Black	Black	On/Off	SPST	A	CH792-ND	1.22	1.08	.90	TRG22F2FBBNN
	Black	Red-Illuminated	On/Off	SPST	D	CH795-ND	1.46	1.30	1.08	TRG22F2BBRLN
	Black	Green-Illuminated	On/Off	SPST	D	CH796-ND	1.40	1.25	1.04	TRG22F2BBGLN
WR Series — 16 Amp Double-Pole Large Rocker Switches										
4	Black	Black	On/Off	DPST	A	CH784-ND	1.57	1.40	1.16	WRG32F2FBBNN
	Black	Black	On/Off	DPST	A	CH785-ND	1.57	1.40	1.16	WRG32F5FBBNN
	Black	Black	On/Off/On	DPDT	B	CH786-ND	1.92	1.71	1.42	WRG34F2HBBNN
	Black	Red-Illuminated	On/Off	DPST	D	CH787-ND	1.97	1.76	1.46	WRG32F2BBRLN
	Black	Red-Illuminated	On/Off	DPST	A	CH788-ND	1.97	1.76	1.46	WRG32F2FBRLN
	Black	Red-Illuminated	On/Off	DPST	D	CH789-ND	1.89	1.68	1.40	WRG32F5BBRLN
	Black	Green-Illuminated	On/Off	DPST	A	CH791-ND	2.08	1.85	1.54	WRG32F2FBGLN
YR Series — 20 Amp Double-Pole Power Rocker Switches										
4	Black	Black	On/Off	DPST	A	CH905-ND	2.13	1.90	1.58	YRM32F2FBBNN
	Black	Black	On/Off	DPST	D	CH906-ND	2.08	1.85	1.54	YRM32F2BBBNN
	Black	Red	On/Off	DPST	D	CH907-ND	2.65	2.36	1.96	YRM32F2BBRLN
FR Series — 12 Amp Double-Pole Rocker Switches										
5	Black	Black	On/Off	DPST	D	CH856-ND	1.73	1.54	1.28	FRH32A2BBBNN
	Black	Black	On/On	DPDT	D	CH857-ND	1.81	1.61	1.34	FRH33A2BBBNN

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each			Cherry Part No.
							1	10	50	
GR Series — 15 Amp Compact Rocker Switches										
6	Black	Black	On/Off	SPST	D	CH860-ND	1.05	.94	.78	GRF22N2BBBNN
	Black	Black	On/On	SPDT	D	CH862-ND	1.24	1.11	.92	GRF23N2BBBNN
PR Series — 6 Amp Power Rocker Switches										
7	Black	Black	On/Off	SPST	D	CH864-ND	1.22	1.08	.90	PRK22J5BBBNN
	Black	Black	On/Off	SPST	E	CH865-ND	1.22	1.08	.90	PRK22J5DBBNN
RR Series — 10 Amp Round Rocker Switches										
8	Black	Black	On/Off	SPST	J	CH866-ND	1.16	1.04	.86	RRA22H3BBBNN
	Black	Red	On/Off	SPST	G	CH869-ND	1.16	1.04	.86	RRA22H3FBRNN
	Black	Black	On/Off	DPST	G	CH867-ND	1.73	1.54	1.28	RRA32H3FBBNN
	Black	Red-Illuminated	On/Off	SPST	J	CH870-ND	1.54	1.37	1.14	RRA22H3BBRLN
	Black	Red-Illuminated	On/Off	SPST	J	CH873-ND‡	1.54	1.37	1.14	RRA22H3BBRHN
	Black	Amber-Illuminated	On/Off	SPST	J	CH872-ND	1.54	1.37	1.14	RRA22H3BBALN
	White	White	On/Off	SPST	J	CH868-ND	1.11	.99	.82	RRA22H3BWWNN
	White	Red	On/Off	SPST	J	CH874-ND	1.11	.99	.82	RRA22H3BWRNN
SR Series — 20 Amp Miniature Round Rocker Switches										
9	Black	Black	On/Off	SPST	J	CH875-ND	1.30	1.16	.96	SRJ22A3BBBNN
	Black	Black	On/On	SPDT	J	CH876-ND	1.51	1.35	1.12	SRJ23A3BBBNN
	Black	Black	On/Off/On	SPDT	H	CH878-ND	1.65	1.47	1.22	SRJ24A3HBBNN
KC Series — 16 Amp Waterproof Round Rocker Switches										
10	Black	Black	On/Off	SPST	J	CH936-ND	3.08	2.74	2.28	KCA2ANA1BBB
	Black	Red-Illuminated	On/Off	SPST	J	CH937-ND	3.97	3.53	2.94	KCA2ALA2RBB
KD Series — 16 Amp Waterproof Round Rocker Switches										
10	Black	Black	On/Off	DPST	J	CH938-ND	4.67	4.16	3.46	KDH3ANA1BBB
	Black	Red-Illuminated	On/Off	DPST	J	CH939-ND	5.29	4.71	3.92	KDH3ALA2RBB
	Black	Black	On/On	DPDT	J	CH940-ND	6.24	5.55	4.62	KDH3BNA1BBB
	Black	Black	On/Off/On	DPDT	J	CH941-ND	6.62	5.88	4.90	KDH3CNA1BBB
KF Series — 10 Amp Waterproof Round Pushbutton Switches										
11	Black	Black	On/Off	SPST	K	CH945-ND	4.00	3.56	2.96	KFB2ANA1BBB
	Black	Red-Illuminated	On/Off	SPST	K	CH946-ND	4.91	4.37	3.64	KFB2ALA2RBB
	Black	Black	On/Off	SPST	K	CH944-ND	4.37	3.89	3.24	KFB2DNA1BBB
	Black	Black	On/Off	DPST	K	CH942-ND	5.64	5.02	4.18	KFB3ANA1BBB
	Black	Red-Illuminated	On/Off	DPST	K	CH943-ND	6.40	5.69	4.74	KFB3ALA2RBB
KG Series — 20 Amp Waterproof Rocker Switches										
12	Black	Black	On/Off	SPST	A	CH949-ND	5.99	5.33	4.44	KGC2ANB1BBD
	Black	Black	On/On	SPDT	D	CH950-ND	7.53	6.70	5.58	KGC2BNB1BBB
	Black	Black	On/Off/On	SPDT	B	CH951-ND	7.97	7.08	5.90	KGC2CNB1BBN
	Black	Black	On/Off	DPST	A	CH952-ND	9.10	8.09	6.74	KGC3ANB1BBD
KM Series — 20 Amp Waterproof Rocker Switches										
13	Black	Black	On/Off	SPST	D	CH953-ND	11.31	10.06	8.38	KMD2AMB7BBBNR1
	Black	Black	On/Off/On	SPDT	B	CH954-ND	7.21	6.41	5.34	KMD2CNB1BBNNNN
	Black	Black	On/Off/On	DPDT	D	CH955-ND	17.17	15.27	12.72	KMD3CMB8BBBRG2
KR Series — 16 Amp Miniature Waterproof Rocker Switches										
14	Black	Black	On/Off	SPST	A	CH932-ND	3.08	2.74	2.28	KRE2ANA1BBD
	Black	Red-Illuminated	On/Off	SPST	D	CH933-ND	3.32	2.96	2.46	KRE2ALA2RBB
	Black	Black	On/On	SPDT	D	CH934-ND	3.62	3.22	2.68	KRE2BNA1BBB
	Black	Black	On/Off	SPST	D	CH935-ND	3.08	2.74	2.28	KRE2DNA1BBB
KS Series — 16 Amp Waterproof Rocker Switches										
15	Black	Black	On/Off	SPST	A	CH947-ND	6.08	5.40	4.50	KSF2ANB1BBD
	Black	Black	On/On	SPDT	D	CH948-ND	7.48	6.65	5.54	KSF2BNB1BBB
KT Series — 20 Amp Waterproof Rocker Switches										
16	Black	Black	On/Off	SPST	A	CH956-ND	4.56	4.06	3.38	KTG2ANB1BBDNNN
	Black	Black w/ Red-Illum.	On/Off	SPST	D	CH957-ND	6.70	5.96	4.96	KTG2AMB2BBBRN1
	Black	Black	On/On	SPDT	D	CH958-ND	5.02	4.47	3.72	KTG2BNB1BBBNNN
	Black	Black	On/Off/On	SPDT	B	CH959-ND	5.24	4.66	3.88	KTG2CNB1BBNNNN

‡ 12 VDC Incandescent

Internationally Approved Rocker Switches

High Inrush TV Rated

JW Series: Industry's first molded rockers with TV rating (JWM and JWMW: TV-5; JWL: TV-8). UL, CSA, VDE, SEMKO and SEV approved. Silver contacts, epoxy sealed solder lug terminals.
Electrical Capacity: JWM and JWMW: 10A @ 125/250VAC; JWMW: 10A @ 30VDC; JWL: 16A @ 125/250VAC.
Dielectric Strength: 2,000VAC minimum between contacts; 4,000VAC minimum between contacts and case.
Electrical Life: 25,000 operations minimum
Operating Temperature: -25°C ~ 70°C.
Angle of Throw: 26°
Terminals: JWM and JWMW: Solder lugs, JWL: .187" QC All switches are black body with black actuator. IP67 Panel Seal Option available.

Fig. 1

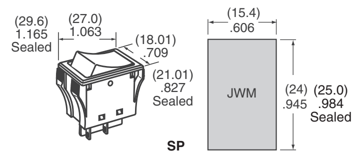

Fig. 2

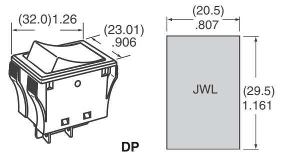

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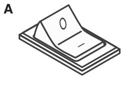

Inscription for Horizontal Mounting

B

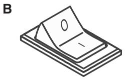

Inscription for Vertical Mounting

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	A	360-1483-ND	6.75	4.68	4.14	JWM11RA1A
	SPST	On-Off	B	360-1484-ND	6.75	4.68	4.14	JWM11RA2A
	SPST	On-Off	A	360-1715-ND†	7.95	5.41	4.77	JWMW11RA1A
	SPST	On-Off	B	360-1716-ND†	7.95	5.41	4.77	JWMW11RA2A
	DPST	On-Off	A	360-1487-ND	8.47	6.01	5.30	JWM21RA1A
	DPST	On-Off	B	360-1488-ND	8.47	6.01	5.30	JWM21RA2A
	DPST	On-Off	A	360-1717-ND†	9.60	6.52	6.00	JWMW21RA1A

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	DPST	On-Off	B	360-1718-ND†	9.60	6.52	6.00	JWMW21RA2A
2	SPST	On-Off	A	360-1491-ND	8.40	5.95	5.25	JWL11RA1A
	SPST	On-Off	B	360-1492-ND	8.40	5.95	5.25	JWL11RA2A
	DPST	On-Off	A	360-1495-ND	10.93	7.75	7.13	JWL21RA1A
	DPST	On-Off	B	360-1496-ND	10.93	7.75	7.13	JWL21RA2A
—	Switch Boot Waterproof JWL Series			360-1011-ND	3.54	2.19	1.93	AT4126

† Panel Sealed

CW Series Rocker Switches

Fig.	Circuit	Switch Function	Actuator Color	Terminals	Current Rating	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	—	Solder	6A	360-1720-ND	2.41	1.45	1.26	CWSA11AANS
	SPDT	On-On	—	Solder	6A	360-1727-ND	2.95	1.81	1.57	CWT12AAS1
	DPST	On-Off	Red 125VAC	.187 QC	9A	360-1728-ND	4.54	2.84	2.60	CWSB21CACF
	DPST	On-Off	Amber 125VAC	.187 QC	9A	360-1729-ND	4.54	2.84	2.60	CWSB21DADF
	DPST	On-Off	Green 125VAC	.187 QC	9A	360-1730-ND	4.54	2.84	2.60	CWSB21FAFF
	DPST	On-Off	Red LED	.110 QC	9A	360-1731-ND	7.63	5.19	4.58	CWSC21JCACS
	DPST	On-Off	Amber LED	.110 QC	9A	360-1732-ND	7.63	5.19	4.58	CWSC21JDADS
	DPST	On-Off	Green LED	.110 QC	9A	360-1733-ND	7.63	5.19	4.58	CWSC21JFAFS
	SPST	On-Off	Red LED	.110 QC	9A	360-1734-ND	5.14	3.28	3.00	CWSC11JCACS
	SPST	On-Off	Amber LED	.110 QC	9A	360-1735-ND	5.14	3.28	3.00	CWSC11JDADS
	SPST	On-Off	Green LED	.110 QC	9A	360-1736-ND	5.14	3.28	3.00	CWSC11JFAFS
2	SPST	On-Off	—	Solder	6A	360-1721-ND	2.59	1.54	1.38	CWSA11AAN1S
	SPST	On-Off	—	.187 QC	6A	360-1723-ND	2.73	1.68	1.50	CWSB11AA1F
	DPST	On-Off	—	.187 QC	6A	360-1725-ND	3.54	2.08	1.99	CWSB21AA1F
3	SPST	On-Off	—	Solder	6A	360-1722-ND	2.59	1.54	1.38	CWSA11AAN2S
	SPST	On-Off	—	.187 QC	6A	360-1724-ND	2.73	1.68	1.50	CWSB11AA2F
	DPST	On-Off	—	.187 QC	6A	360-1726-ND	3.54	2.08	1.99	CWSB21AA2F

Neon Lamp Ratings	Red	Amber	Green
Voltage Internal	125V	125V	125V
Resistance	33KΩ	33KΩ	33KΩ
Current	1.4mA	1.4mA	0.6mA

LED Ratings	Red	Amber	Green
Forward Voltage	2.1V	2.0V	1.95V
Forward Current	20mA	20mA	20mA
Peak Current	30mA	30mA	30mA

CWS Series

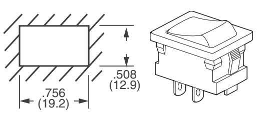

CWT Series

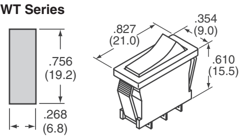

Fig. 1

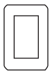

Fig. 2

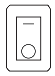

Fig. 3

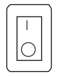

M Series Miniature Rocker Switches

FEATURES: • High insulating barriers increase isolation of circuits in multi-pole devices and provide added protection to contact points • Epoxy sealed terminals prevent entry of solder flux and other contaminants • Bias guard prevents misalignment of contacts; Interlocking of actuator block with rocker and internal guide does not allow transmission of diagonal force on rocker to reach contact mechanism **SPECIFICATIONS: Electrical Capacity:** • Power Level (Silver): 6A @ 125VAC, 3A @ 250VAC, 4A @ 30VDC for On-On circuits, 3A @ 30VDC for all others • Logic Level (Gold): 0.4VA maximum @ 28V AC/DC maximum • Contact Resistance: 10mΩ maximum (silver); 20mΩ maximum (gold) • Insulation Resistance: 1,000MΩ minimum @ 500VDC • Dielectric Strength: 1,000VAC minimum between contacts for 1 minute • Mechanical Life: 50,000 operations minimum • Electrical Life: 25,000 operations minimum for silver; 50,000 operations minimum for gold • Frame Material: Stainless steel, black actuator • Operating Temperature Range: -30°C ~ 85°C

Fig.	Circuit	Actuator Description	Switching Function	Termination	Contact Material	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPDT	Snap-In Rocker	On-On	Solder Lug	Silver	360-2247-ND	5.67	3.78	3.38	M2012TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Off-On	Solder Lug	Silver	360-2255-ND	6.29	4.19	3.76	M2013TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Mom	Solder Lug	Silver	360-2257-ND	6.60	4.57	4.04	M2015TJW01-FA-1A
	SPDT	Snap-In Rocker	Mom-Off-Mom	Solder Lug	Silver	360-2259-ND	6.70	4.64	4.11	M2018TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Off-Mom	Solder Lug	Silver	360-2264-ND	6.70	4.64	4.11	M2019TJW01-FA-1A
	DPDT	Snap-In Rocker	On-On	Solder Lug	Silver	360-2265-ND	7.25	4.93	4.44	M2022TJW01-FA-1A
	DPDT	Snap-In Rocker	On-Off-On	Solder Lug	Silver	360-2271-ND	7.82	5.55	4.89	M2023TJW01-FA-1A
	DPDT	Snap-In Rocker	Mom-Off-Mom	Solder Lug	Silver	360-2273-ND	9.02	6.21	5.64	M2028TJW01-FA-1A
2	DPDT	Snap-In Rocker, Red LED	On-On	Solder Lug	Silver	360-2217-ND	8.40	5.95	5.25	M2022TJW01-FA-2A-C-RO
	DPDT	Snap-In Rocker, Green LED	On-On	Solder Lug	Silver	360-2266-ND	8.98	6.18	5.61	M2022TJW01-FA-2A-F
3	SPDT	Snap-In Paddle	On-on	Solder Lug	Silver	360-2248-ND	5.67	3.78	3.38	M2012TJW01-GA-1A
	SPDT	Snap-In Paddle	On-Mom	Solder Lug	Silver	360-2215-ND	6.60	4.57	4.04	M2015TJW01-GA-1A
	SPDT	Snap-In Paddle	Mom-Off-Mom	Solder Lug	Silver	360-2260-ND	6.70	4.64	4.11	M2018TJW01-GA-1A
	DPDT	Snap-In Paddle	On-On	Solder Lug	Silver	360-2218-ND	7.25	4.93	4.44	M2022TJW01-GA-1A
	DPDT	Snap-In Paddle	On-Off-On	Solder Lug	Silver	360-2220-ND	7.82	5.55	4.89	M2023TJW01-GA-1A
	DPDT	Snap-In Paddle	On-On-On	Solder Lug	Silver	360-2272-ND	9.26	6.37	5.79	M2024TJW01-GA-1A
	DPDT	Snap-In Paddle	On-Mom	Solder Lug	Silver	360-2221-ND	8.74	6.01	5.46	M2025TJW01-GA-1A
	DPDT	Snap-In Paddle	Mom-Off-Mom	Solder Lug	Silver	360-2274-ND	9.02	6.21	5.64	M2028TJW01-GA-1A
4	SPDT	Rocker .365" Wide	On-On	Solder Lug	Silver	360-2249-ND	5.12	3.26	2.98	M2012TNW01-DA
	SPDT	Rocker .365" Wide	On-Off-On	Solder Lug	Silver	360-2256-ND	5.46	3.64	3.26	M2013TNW01-DA
	SPDT	Rocker .365" Wide	Mom-Off-Mom	Solder Lug	Silver	360-2261-ND	6.14	4.09	3.66	M2018TNW01-DA
	SPDT	Paddle .365" Wide	Mom-Off-Mom	Solder Lug	Silver	360-2262-ND	6.14	4.09	3.66	M2018TNW01-EA
	SPDT	Paddle .595" Wide	Mom-Off-Mom	Solder Lug	Silver	360-2216-ND	6.45	4.30	3.85	M2018TYW01-HA
	DPDT	Rocker .365" Wide	On-On	Solder Lug	Silver	360-2267-ND	6.45	4.47	3.95	M2022TNW01-DA
	DPDT	Rocker .595" Wide	Mom-Off-Mom	Solder Lug	Silver	360-2275-ND	8.54	6.06	5.34	M2028TYW01-JA
	4PDT	Rocker .365" Wide	On-On	Solder Lug	Silver	360-2276-ND	12.24	8.87	7.89	M2042TNW01-DA
5	SPDT	Rocker .365" Wide	On-On	PC Bracket	Gold	360-2250-ND	5.72	3.81	3.41	M2012TXG13-DA-RO
	SPDT	Paddle .365" Wide	On-On	PC Bracket	Gold	360-2213-ND	5.72	—	—	M2012TXG13-EA-RO
	SPDT	Rocker .365" Wide	On-On	PC Bracket	Silver	360-2252-ND	5.35	3.47	3.17	M2012TXW13-DA-RO
	SPDT	Rocker .365" Wide	On-Off-On	PC Bracket	Gold	360-2214-ND	6.34	4.23	3.79	M2013TXG13-DA-RO
	SPDT	Rocker .365" Wide	On-Mom	PC Bracket	Gold	360-2258-ND	6.65	4.61	4.07	M2015TXG13-DA-RO
	SPDT	Rocker .595" Wide	Mom-Off-Mom	PC Bracket	Silver	360-2263-ND	6.60	4.57	4.04	M2018TZW13-JA-RO
	DPDT	Rocker .365" Wide	On-On	PC Bracket	Gold	360-2219-ND	7.97	5.65	4.98	M2022TXG13-DA-RO
6	SPDT	Rocker .365" Wide	On-On	Right Angle PC	Gold	360-2251-ND	6.03	4.02	3.60	M2012TXG30-DA-RO
	SPDT	Rocker .365" Wide	On-On	Right Angle PC	Silver	360-2253-ND	5.46	3.64	3.26	M2012TXW30-DA-RO
	DPDT	Rocker .365" Wide	On-On	Right Angle PC	Silver	360-2269-ND	7.70	5.24	4.62	M2022TXW30-DA-RO
7	SPDT	Rocker .365" Wide	On-On	Vertical PC	Silver	360-2254-ND	6.14	4.09	3.66	M2012TXW41-DA-RO
	DPDT	Rocker .365" Wide	On-On	Vertical PC	Gold	360-2268-ND	9.60	6.52	6.00	M2022TXG41-DA-RO
	DPDT	Rocker .365" Wide	On-On	Vertical PC	Silver	360-2270-ND	8.50	6.02	5.31	M2022TXW41-DA-RO

Fig. 1

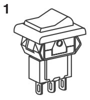

Fig. 2

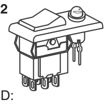

LED:
Red: 20mA @ 2.8V
Green: 30mA @ 2.1V

Fig. 3

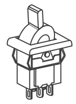

Fig. 4

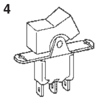

Fig. 5

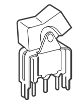

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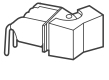

Fig. 7

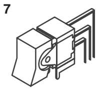

C&K Rocker Switches

Contact Materials

B: Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum

Q: Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC

Specifications: Voltage Ratings: C Series: 15A @ 125VAC or 10A @ 250VAC **CA Series:** 15A @ 125VAC **DM Series:** 10A @ 125VAC or 5A @ 250VAC **DM2X/DM14/DM24 Series:** 3A @ 125VAC or 2A @ 250VAC **DF Series:** 16A @ 125VAC or 250VAC **D10X/D20X Series:** 4A @ 125VAC or 2A @ 250VAC **D50X/D60X Series:** 10A @ 125VAC or 5A @ 250VAC **E1XX/E2XX Series:** 7.5A @ 125VAC or 28VDC, 3A @ 250VAC **7000 Series:** 5A @ 120VAC or 28VDC **9201 Series:** 6A @ 120VAC or 28VDC, 3A @ 250VAC **9221 Series:** 10A @ 125VAC or 28VDC, 5A@ 250VAC

Termination Options

05

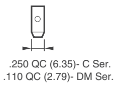

Z

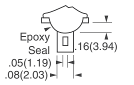

Z3, C *NEW!*

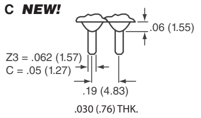

Z4

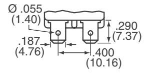

V3, V4

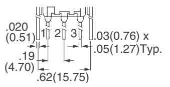

A, A3

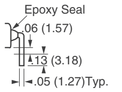

AV2

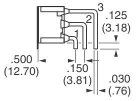

SA1 *NEW!*

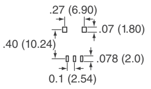

W3 *NEW!*

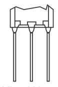

Wire Wrap

Fig. 1

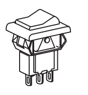

Fig. 2

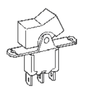

Fig. 3

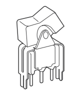

Fig. 4

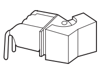

Fig. 5

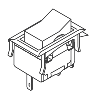

Fig. 6

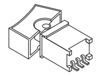

Fig. 7

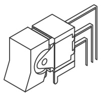

A *NEW!*

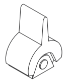

Lever Actuator

Fig. 8

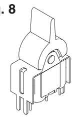

Fig. 9

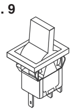

Fig. 10

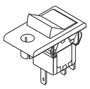

Fig. 11

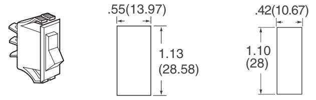

C Series Panel Cutout CA Series

Fig. 12

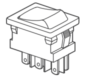

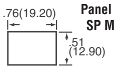

Panel Cutout SP Models

Fig. 13

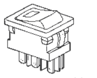

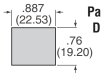

Panel Cutout DP Models

Fig. 14

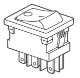

Fig. 15

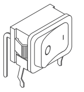

PC Mount

Fig. 16

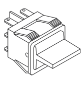

Paddle Type

Fig. 17

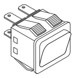

Fig. 18

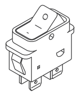

Fig. 19

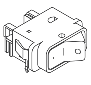

Fig.	Circuit	Actuator Description	Switching Function	Options (see diagram) Termination	Options (see diagram) Contact Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	C&K Part No.
Miniature Rocker Switches										
1	SPDT	Rocker/Frame	On-On	Z	Q	CKN2010-ND	9.48	7.59	6.01	7101J16ZQE22
	SPDT	Rocker/Frame	On-On	Z	B	CKN10083-ND ***NEW!***	9.48	7.59	6.01	7101J16ZBE22
	SPDT	Rocker/Frame	On-On	Z	Q	CKN2015-ND	8.21	6.57	5.20	7101J51ZQE22
	SPDT	Rocker/Frame	On-On	Z	Q	CKN2002-ND★	8.21	6.57	5.20	U11J51ZQE22
	SPDT	Rocker/Frame	On-Off-On	Z	Q	CKN2017-ND	8.80	7.04	5.58	7103J51ZQE22
	SPDT	Rocker/Frame	On-Off-On	Z	B	CKN9685-ND ***NEW!***	10.06	8.05	6.38	7103J16ZBE22
	SPDT	Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2022-ND	8.93	7.14	5.66	7105J51ZQE22
	SPDT	Rocker/Frame	On-Off-Mom	Z	Q	CKN2024-ND	8.93	7.14	5.66	7107J51ZQE22
	SPDT	Rocker/Frame	On-Mom	Z	Q	CKN2027-ND	8.93	7.14	5.66	7108J51ZQE22
	DPDT	Rocker/Frame	On-On	Z	Q	CKN2029-ND	12.15	9.72	7.70	7201J16ZQE22
	DPDT	Rocker/Frame	On-On	Z3	Q	CKN9930-ND★ ***NEW!***	12.67	10.14	8.03	U21J16Z3QE22
	DPDT	Rocker/Frame	On-On	Z	Q	CKN2033-ND	10.88	8.71	6.90	7201J51ZQE22
	DPDT	Rocker/Frame	On-Off-On	Z	Q	CKN2037-ND	11.89	9.52	7.53	7203J51ZQE22
	DPDT	Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2040-ND	11.89	9.52	7.53	7205J51ZQE22
	DPDT	Rocker/Frame	On-Off-Mom	Z	Q	CKN9760-ND ***NEW!***	12.15	9.72	7.70	7207J51ZQE22
2	SPDT	Black	On-On	Z	Q	CKN2007-ND	7.17	5.74	4.55	7101J1ZQE2
	SPDT	Red	On-On	Z	Q	CKN9925-ND★ ***NEW!***	7.66	6.13	4.85	U11J1ZQE3
	SPDT	Black	On-On	Z	B	CKN9669-ND ***NEW!***	7.17	5.74	4.55	7101J1ZBE2
	SPDT	Black	On-Off-On	Z	Q	CKN2008-ND	7.76	6.21	4.92	7103J1ZQE2
	SPDT	Black	Mom-Off-Mom	Z	Q	CKN2018-ND	7.88	6.31	5.00	7105J1ZQE2
	SPDT	Black	Mom-Off-Mom	Z	Q	CKN9699-ND ***NEW!***	8.93	7.14	5.66	7105J3ZQE2
	DPDT	Black	On-On	Z	Q	CKN2000-ND	9.84	7.88	6.24	7201J1ZQE2
	DPDT	Black	On-On	Z	Q	CKN10179-ND ***NEW!***	10.88	8.71	6.90	7201J3ZQE2
	DPDT	Black	On-Off-On	Z	Q	CKN2036-ND	11.89	9.52	7.53	7203J3ZQE2
	DPDT	Black	Mom-Off-Mom	Z	Q	CKN2039-ND	11.89	9.52	7.53	7205J3ZQE2
	DPDT	Lever	Mom-Off-Mom	W3	Q	CKN9753-ND ***NEW!***	12.86	10.30	8.15	7205J2W3QE2
	4PDT	Black	On-On	Z	Q	CKN2001-ND	15.70	13.56	11.42	7401J1ZQE2
3	SPDT	Black	On-On	V3	B	CKN2012-ND	8.60	6.89	5.45	7101J1V3BE2
	SPDT	Black	On-On	V3	Q	CKN2013-ND	8.60	6.89	5.45	7101J1V3QE2
	SPDT	Black	On-Off-On	V3	B	CKN2003-ND	9.19	7.35	5.82	7103J1V3BE2
	SPDT	Black	Mom-Off-Mom	V3	Q	CKN2020-ND	10.36	8.29	6.56	7105J3V3QE2
	SPDT	Black	On-Mom	V3	B	CKN2026-ND	9.32	7.46	5.90	7108J1V3BE2
	SPDT	Lever	On-Mom	V3	Q	CKN9928-ND★ ***NEW!***	10.36	8.29	6.56	U18J2V3QE2
	SPDT	Black	On-On	V3	B	CKN2078-ND	8.07	6.46	5.12	T101J1V3BE2
	DPDT	Black	On-On	V3	B	CKN2032-ND	11.82	9.46	7.49	7201J1V3BE2
4	SPDT	Black	On-On	A	B	CKN2004-ND	7.95	6.36	5.04	7101J1ABE2
	SPDT	Black	On-On	A	Q	CKN2005-ND	7.95	6.36	5.04	7101J1AQE2
	DPDT	Black	On-On	A	B	CKN10178-ND ***NEW!***	11.46	9.17	7.26	7201J1ABE2
	DPDT	Black	On-On	A	Q	CKN2006-ND	11.27	9.02	7.14	7201J1AQE2
	DPDT	Black	On-On	A	B	CKN2079-ND	12.17	9.74	7.71	T201J1ABE2
	DPDT	Black	On-Off-On	A	B	CKN9746-ND ***NEW!***	12.47	9.98	7.90	7203J1ABE2
5	SPDT	Rocker/Frame	On-On	Z	Q	CKN2009-ND	9.48	7.59	6.01	7101J11ZQE22
	SPDT	Rocker/Frame	Mom-Off-Mom	C	Q	CKN9697-ND ***NEW!***	10.36	8.29	6.56	7105J11CQE22
	SPDT	Rocker/Frame	Mom-Off-Mom	Z	B	CKN9698-ND ***NEW!***	10.19	8.16	6.46	7105J16ZBE22
	SPDT	Rocker/Frame	Mom-Off-Mom	Z	Q	CKN10176-ND ***NEW!***	12.60	10.08	7.98	7105J19ZQE22
	SPDT	Rocker/Frame	Mom-Off-Mom	Z	Q	CKN9927-ND★ ***NEW!***	12.60	10.08	7.98	U15J19ZQE22
	SPDT	Red Rocker/Frame	On-Mom	C	Q	CKN9713-ND ***NEW!***	10.84	8.68	6.87	7108J11CQE32

† Panel Cutout is 1.00” x 1.125” (25.40mm x 28.58mm) ∆ Panel Cutout is .76” x .51” (19.20mm x 12.90mm) ‡ White Marking § Cut Tape ◊ Tape and Reel ★ UL Approved

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Circuit	Actuator Description	Switching Function	Options (see diagram)		Digi-Key Part No.	Price Each			C&K Part No.
				Termination	Contact Material		1	25	100	
5	DPDT	Black	On-On	Z	Q	CKN10180-ND ***NEW!***	11.37	9.10	7.21	7201J50ZQE3
	DPDT	Rocker/Frame	On-On	C	Q	CKN9718-ND ***NEW!***	12.41	9.93	7.87	7201J11CQE22
	3PDT	Rocker/Frame	On-On	Z	Q	CKN2044-ND	13.30	11.49	9.68	7301J11ZQE22
	4PDT	Rocker/Frame	On-On	Z	Q	CKN2045-ND	17.39	15.02	12.65	7401J11ZQE22
7	SPDT	Black	On-On	AV2	Q	CKN2011-ND	8.31	6.65	5.27	7101J1AV2QE2
	SPDT	Black	On-On	AV2	B	CKN9895-ND ***NEW!***	8.51	6.81	5.39	T101J1AVBE2
	DPDT	Black	On-On	AV2	B	CKN2030-ND	12.14	9.72	7.70	7201J1AV2BE2
	DPDT	Black	On-On	AV2	Q	CKN2031-ND	11.96	9.57	7.58	7201J1AV2QE2
7A	SPDT	Lever	On-Off-Mom	V5	B	CKN9709-ND ***NEW!***	10.55	8.45	6.69	7107J60V5BE2
	DPDT	Lever	On-Off-On	Z	Q	CKN9932-ND★ ***NEW!***	15.76	12.61	9.99	U23J60ZQI2
8	SPDT	Lever	On-On	V3	B	CKN2014-ND	9.64	7.72	6.11	7101J2V3BE2
	SPDT	Black	On-On	V3	B	CKN10056-ND ***NEW!***	7.46	5.98	4.73	T101J6V3BE9
	SPDT	Lever	Mom-Off-Mom	Z	Q	CKN2019-ND	8.93	7.14	5.66	7105J2ZQE2
	DP3T	Lever	On-On-Mom	Z	Q	CKN10153-ND★ ***NEW!***	13.39	10.71	8.48	U213J2ZQE2
9	SPDT	Lever/Frame	On-On	Z	Q	CKN2016-ND	8.21	6.57	5.20	7101J61ZQE22
	SPDT	Lever	On-Off-On	Z	Q	CKN9686-ND ***NEW!***	11.27	9.02	7.14	7103J2ZQI1
	SPDT	Lever	On-Off-On	Z	Q	CKN9687-ND ***NEW!***	10.94	8.76	6.93	7103J2ZQI2
	SPDT	Lever/Frame	On-Off-On	Z	B	CKN9688-ND ***NEW!***	8.80	7.04	5.58	7103J61ZBE22
	SPDT	Lever/Frame	Mom-Off-Mom	Z	Q	CKN2023-ND	8.93	7.14	5.66	7105J61ZQE22
	SPDT	Lever/Frame	On-Off-Mom	Z	Q	CKN2025-ND	8.93	7.14	5.66	7107J61ZQE22
	SPDT	Lever/Frame	On-Mom	Z	Q	CKN2028-ND	8.93	7.14	5.66	7108J61ZQE22
	DPDT	Lever/Frame	On-On	Z	Q	CKN2035-ND	10.88	8.71	6.90	7201J61ZQE22
	DPDT	Lever/Frame	On-Off-On	Z	Q	CKN2038-ND	11.89	9.52	7.53	7203J61ZQE22
	DPDT	Lever/Frame	Mom-Off-Mom	Z	Q	CKN2041-ND	11.89	9.52	7.53	7205J61ZQE22
	DPDT	White Lever/Frame	On-Off-Mom	Z	Q	CKN9761-ND ***NEW!***	16.34	13.08	10.36	7207J61ZQI12
	DPDT	Lever/Frame	On-Mom	Z	Q	CKN2042-ND ***NEW!***	12.15	9.72	7.70	7208J61ZQE22
	DPDT	Lever/Frame	On-Mom	Z	Q	CKN9763-ND ***NEW!***	16.34	13.08	10.36	7208J61ZQI12
	DPDT	Lever	On-None-On	Z	G	CKN9947-ND ***NEW!***	13.07	10.46	8.28	7201J90ZGE2
	DPDT	Lever/Frame	On-On-On	Z	Q	CKN2043-ND	12.64	10.12	8.01	7211J61ZQE22
10	DPDT	Rocker/LED	On-On	Z	Q	CKN2034-ND	10.88	8.71	6.90	7201J52ZQE22
	DPDT	Lever/LED	Mom-Off-Mom	Z	G	CKN9754-ND ***NEW!***	12.81	10.25	8.12	7205J62ZGE22
Process Sealed Rocker Switches										
3	SPDT	Black	On-On	V3	B	CKN2072-ND	9.22	7.38	5.84	E101J1V3BE2
	SPDT	Black	On-None-On	V4	B	CKN9951-ND ***NEW!***	8.70	6.96	5.51	E101J1V4BE2
	SPDT	Black	Mom-Off-Mom	V3	B	CKN2073-ND	10.42	8.34	6.60	E105J1V3BE2
	SPDT	Lever	On-On	V21	B	CKN9845-ND ***NEW!***	10.26	8.21	6.50	E101J2V21BE2
	SPDT	Lever	On-On	V21	B	CKN9846-ND ***NEW!***	10.65	8.52	6.75	E101J2V21BE9
	SPDT	Lever	On-Off-On	V21	B	CKN9849-ND ***NEW!***	11.46	9.17	7.26	E103J2V21BE2
	SPDT	Lever	Mom-Off-Mom	V3	Q	CKN9851-ND ***NEW!***	11.36	9.10	7.20	E105J2V3QE2
	DPDT	Black	On-On	V3	B	CKN2076-ND	12.96	10.37	8.21	E201J1V3BE2
	DPDT	Lever	On-On	V21	B	CKN9855-ND ***NEW!***	14.00	11.20	8.87	E201J2V21BE2
4	SPDT	Black	On-On	A	Q	CKN2070-ND	7.95	6.36	5.04	E101J1AQE2
	SPDT	Black	On-None-On	A3	Q	CKN9950-ND ***NEW!***	8.15	6.52	5.16	E101J1A3QE2
	SPDT	Black	On-On	A	B	CKN2069-ND	8.05	6.44	5.10	E101J1ABE2
	SPDT	Black	On-On	A	B	CKN2077-ND	8.59	6.87	5.44	ET01J6ABE2
	DPDT	Black	On-On	A	B	CKN2074-ND	11.95	9.56	7.57	E201J1ABE2
6	SPDT	Black	On-On	SA1	B	CKN9467CT-ND§	9.98	9.21	8.45	ET01J6SA1BE2
	SPDT	Black	On-On	SA1	B	CKN9467TR-ND◊	2486.70/450			ET01J6SA1BE2
	SPDT	Black	On-Off-On	SA1	B	CKN10213CT-ND§ ***NEW!***	10.90	10.07	9.23	ET03J6SA1BE2
	SPDT	Black	On-Off-On	SA1	B	CKN10213TR-ND◊ ***NEW!***	2716.74/450			ET03J6SA1BE2
	SPDT	Black	On-Off-Mom	SA1	B	CKN10217CT-ND§ ***NEW!***	10.97	10.13	9.29	ET07J6SA1BE2
	SPDT	Black	On-Off-Mom	SA1	B	CKN10217TR-ND◊ ***NEW!***	2734.56/450			ET07J6SA1BE2
	SPDT	Black	On-Mom	SA1	B	CKN10220CT-ND§ ***NEW!***	10.97	10.13	9.29	ET08J6SA1BE2
	SPDT	Black	On-Mom	SA1	B	CKN10220TR-ND◊ ***NEW!***	2734.56/450			ET08J6SA1BE2
	SPDT	Black	Mom-Off-Mom	SA1	B	CKN9468CT-ND§	10.90	10.07	9.23	ET05J6SA1BE2
	SPDT	Black	Mom-Off-Mom	SA1	B	CKN9468TR-ND◊	2716.74/450			ET05J6SA1BE2
7	SPDT	Black	On-On	AV2	B	CKN2071-ND	8.40	6.73	5.33	E101J1AV2BE2
	DPDT	Black	On-On	AV2	Q	CKN2075-ND	12.44	9.96	7.89	E201J1AV2QE2
8	SPDT	Lever	On-None-On	V4	B	CKN9952-ND ***NEW!***	9.74	7.80	6.17	E101J60V4BE2
Power Rocker Switches										
2	DPDT	Black	On-On	Z4	Q	CKN2047-ND	37.41	29.94	23.70	9221J1Z4QD2
7	DPDT	Black	On-On	AV2	Q	CKN2046-ND	30.04	24.04	19.03	9201J1AV2QE2
11	SPST	O -	On-Off	05	Q	CKN2049-ND‡	5.00	4.00	3.17	C122J12S205PQF
	SPDT	Black	On-On	05	Q	CKN2048-ND	3.39	2.72	2.15	C121J12S205QA
	SPDT	Black	On-On	05	Q	CKC2008-ND	5.20	3.00	2.52	C121J12S205QF
	SPDT	Red	On-On	05	Q	CKC2025-ND	5.10	4.08	3.23	C121J13S205QF
	SPDT	Black	On-On	05	Q	CKC1238-ND	2.52	1.46	1.23	CA01J12207Q
	SPDT	White	On-On	05	Q	CKC1240-ND ***NEW!***	2.68	2.15	1.70	CA01J11207Q
	SPDT	O -	On-On	05	Q	CKN10096-ND ***NEW!***	2.77	2.22	1.76	CA01J12207PQ
	SPST	Illuminated/Red	On-Off	05	Q	CKC1242-ND	3.54	2.04	1.72	CA04J137207Q
	SPST	O - Illuminated/Red	On-Off	05	Q	CKN9452-ND	3.70	2.96	2.35	CA04J137207PQ
	SPST	Illuminated/Yellow	On-Off	05	Q	CKC1244-ND	3.56	2.05	1.73	CA04J157207Q
	SPST	O - Illuminated/Yellow	On-Off	05	Q	CKN9453-ND	3.71	2.98	2.36	CA04J157207PQ
	SPST	Illuminated/Green	On-Off	05	Q	CKN9454-ND	3.22	2.58	2.04	CA04J167207Q
	SPST	O - Illuminated/Green	On-Off	05	Q	CKN2052-ND	3.70	2.96	2.35	CA04J167207PQ
	DPST	O -	On-Off	05	Q	CKN2051-ND‡†	6.23	4.99	3.95	C222J12S205PQF

† Panel Cutout is 1.00" x 1.125" (25.40mm x 28.58mm)   ∆ Panel Cutout is .76" x .51" (19.20mm x 12.90mm)   ‡ White Marking   § Cut Tape   ◊ Tape and Reel   ★ UL Approved   *(Continued)*

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Fig.	Circuit	Actuator Description	Switching Function	Options (see diagram) Termination	Contact Material	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
11	DPST	Black	On-On	05	Q	CKC2026-ND†	5.92	4.74	3.76	C221J12S205QF
	DPDT	O -	On-On	05	Q	CKN10095-ND†‡ ***NEW!***	6.40	5.13	4.06	C221J12S205PQF
	DPDT	Black	On-On	05	Q	CKN2050-ND† ***NEW!***	4.59	3.67	2.91	C221J12S205QA
	DPDT	On-Off	On-Off	05	Q	CKN9832-ND†‡ ***NEW!***	5.27	4.22	3.34	C222J13S205DQA
12	SPST	O -	On-Off	05	Q	CKN2055-ND‡	5.14	4.12	3.26	D102J12S205PQF
	SPST	Black	On-Off	05	Q	CKN9834-ND ***NEW!***	3.50	2.80	2.22	D102J12S205QA
	SPST	O -	On-Off	15	Q	CKN9833-ND ***NEW!***	4.86	3.90	3.08	D102J12B215PQA
	SPST	O -	On-Off	05	Q	CKN1819-ND‡	2.74	2.20	1.74	D102J12S215PQA
	SPST	On-Off	On-Off	05	Q	CKN1820-ND‡	2.74	2.20	1.74	D102J12S217DQA
	SPST	On-Off	On-Off	15	Q	CKN9835-ND ***NEW!***	2.74	2.20	1.74	D102J12S215DQA
	SPST	O -	On-Off	15	Q	CKN10097-ND ***NEW!***	6.31	5.05	4.00	D502J12B215PQF
	SPST	O I	On-Off	A	Q	CKN2058-ND‡	5.32	4.26	3.37	D502J12S2AHQF
	SPST	O I	On-Off	05	Q	CKN1821-ND‡	3.06	2.46	1.94	D502J12S215HQA
	SPST	Black	On-Off	05	Q	CKN9838-ND ***NEW!***	3.67	2.94	2.33	D502J12S205QA
	SPST	O -	On-Off	15	Q	CKN10098-ND ***NEW!***	2.92	2.34	1.85	D502J12S215PQA
	SPST	O -	On-Off	17	Q	CKN9839-ND ***NEW!***	4.12	3.30	2.61	D502J12S217PQF
	SPST	O -	On-Off	05	Q	CKC2011-ND‡	4.12	3.30	2.61	D502J12S215PQF
	SPDT	Black	On-On	05	Q	CKN2053-ND	3.84	3.08	2.44	D101J12S205QA
	SPDT	Black	On-On	15	Q	CKN10014-ND ***NEW!***	2.64	2.12	1.68	D101J12S215QA
	SPDT	O I	On-On	05	Q	CKN2054-ND‡	4.29	3.43	2.72	D101J12S215HQF
	SPDT	Black	Mom-Off-Mom	05	Q	CKC2022-ND	7.92	6.34	5.02	D105J12S205QA
	SPDT	Large Dot	Mom-Off-Mom	05	Q	CKN10015-ND ***NEW!***	10.77	8.62	6.83	D105J12B205NQA
	SPDT	O -	On-On	05	Q	CKN2056-ND‡	4.46	3.57	2.83	D501J12S215PQF
	SPDT	Black	On-On	05	Q	CKN2057-ND	2.81	2.25	1.79	D501J12S215QA
	SPDT	Black	On-Off-On	05	Q	CKC2012-ND	4.70	3.76	2.98	D503J12S205QA
	SPDT	Black	On-Mom	05	Q	CKC2013-ND	5.08	4.07	3.22	D508J12S205QA
	DPST	Black	On-On	05	Q	CKN9840-ND ***NEW!***	7.03	5.63	4.46	D601J12S205QF
	DPST	O -	On-Off	05	Q	CKN2060-ND‡	7.13	5.71	4.52	D602J12S205PQF
	DPST	O -	On-Off	05	Q	CKN9837-ND ***NEW!***	5.42	4.34	3.44	D202J12S205PQA
	DPDT	O -	On-On	05	Q	CKN9836-ND ***NEW!***	5.76	4.62	3.65	D201J12S205PQA
	DPDT	Large Dot	On-On	15	Q	CKN10016-ND ***NEW!***	4.91	3.93	3.11	D201J12S215DQA
	DPST	O -	On-Off	05	Q	CKN9949-ND‡ ***NEW!***	5.70	4.56	3.61	DM22J12S205PQ
	DPST	Black	On-On	05	Q	CKN9843-ND ***NEW!***	5.21	4.17	3.30	DM22J12S205Q
	DPST	White	On-On	05	Q	CKN9844-ND ***NEW!***	5.94	4.76	3.77	DM62J11S205Q
	DPST	Black	On-Off	05	Q	CKN2067-NDΔ	5.59	4.48	3.55	DM62J12S205Q
	DPST	O -	On-Off	05	Q	CKC2019-NDΔ‡	6.08	4.87	3.86	DM62J12S205PQ
13	SPST	Illuminated/Red	On-Off	05	Q	CKN2064-ND	5.59	4.48	3.55	DM14J72S205Q3
	SPST	Illuminated/Red	On-Off	05	Q	CKC2017-ND	5.98	4.79	3.79	DM54J72S205Q3
	DPST	Illuminated/Amber	On-Off	05	Q	CKN2065-NDΔ	6.82	5.46	4.32	DM24J72S205Q4
	DPST	Illuminated/Green	On-Off	05	Q	CKN2066-NDΔ	6.82	5.46	4.32	DM24J72S205Q6
	DPST	Illuminated/Green	On-Off	05	Q	CKN2068-NDΔ	7.20	5.76	4.56	DM64J72S205Q6
	DPST	Illuminated/Red	On-Off	05	Q	CKC2020-NDΔ	6.75	5.40	4.28	DM64J72S205Q3
14	DPDT	O -	On-On	05	Q	CKN2059-ND‡	6.28	5.03	3.98	D601J12S215PQF
	DPDT	O -	On-On	05	Q	CKC2018-NDΔ‡	6.64	5.32	4.21	DM61J12S205PQ
	DPDT	Black	On-On	05	Q	CKC2009-NDΔ	4.51	3.90	3.29	DM61J12S205Q
15	SPDT	O -	On-On	A	Q	CKC2010-ND‡	5.66	4.53	3.59	D501J12S2APQF
	SPDT	O I	On-On	A	Q	CKC2023-ND‡	5.66	4.53	3.59	D501J12S2AHQF
16	DPDT	Black	On-On	05	Q	CKC2024-ND	4.46	3.57	2.83	D201J52S215QA
17	DPDT	Black	On-Mom	05	Q	CKC2015-NDΔ	7.48	5.99	4.74	D608J12S205QA
	DPDT	O -	Off-On	05	Q	CKC2014-NDΔ‡	5.93	4.75	3.76	D602J12S215PQF
18	DPST	O I	On-Off	05	Q	CKN2061-ND‡	7.43	5.95	4.71	DF62J12S215HQF
	DPST	O I	On-Off	05	Q	CKN10099-ND‡ ***NEW!***	7.43	5.95	4.71	DF62J12P215HQF
	DPST	O -	On-Off	05	Q	CKC2016-ND‡	7.43	5.95	4.71	DF62J12S215PQF
	DPST	O -	On-Off	05	Q	CKN10100-ND‡ ***NEW!***	7.43	5.95	4.71	DF62J12P215PQF
	DPST	Black	On-Off	05	Q	CKN9842-ND ***NEW!***	5.75	4.61	3.65	DF62J12S215QA
19	DPST	O I	On-Off	A	Q	CKN2062-ND‡	6.74	5.40	4.28	DF62J12S2AHQA
	DPST	O -	On-Off	A	Q	CKN2063-ND‡	7.94	6.36	5.03	DF62J12S2APQF
	DPST	Black	On-Off	A	Q	CKN10017-ND ***NEW!***	7.46	5.97	4.73	DF62J12S2AQF
—	Recessed Bracket for DM Series					CKN10235-ND ***NEW!***	.85	.69	.54	599D02000
	Frame for J11 and J21 Actuators, Black Enamel					CKN9807-ND ***NEW!***	1.63	1.31	1.03	764500746
	Retaining Spring for J11 and J21 Frame					CKN9808-ND ***NEW!***	1.20	.96	.76	764601106
	Boot for D, DA, and DM Series Rockers					CKN10072-ND ***NEW!***	.59	.48	.38	216C00000
	Actuator Guard for DF Series Rockers					CKN10076-ND ***NEW!***	.67	.54	.43	285B02000

† Panel Cutout is 1.00" x 1.125" (25.40mm x 28.58mm) Δ Panel Cutout is .76" x .51" (19.20mm x 12.90mm) ‡ White Marking § Cut Tape ◊ Tape and Reel ★ UL Approved

NEW! Rocker Switch - CL Series

RoHS

Specifications:
- Contact Rating: UL/CSA: 16A @ 125 VAC, 1/3 HP • Electrical Life: 10,000 make and break cycles at full load • Operating Temperature: -20°C ~ 80°C

Materials:
- Housing: 6/6 Nylon (UL94V-2) Black, matte finish • Illuminated Actuator: Polycarbonate, matte finish
- Terminals: Silver plated, Copper Alloy

Applications:
- Floor care products • Power outlet strips • HVAC units

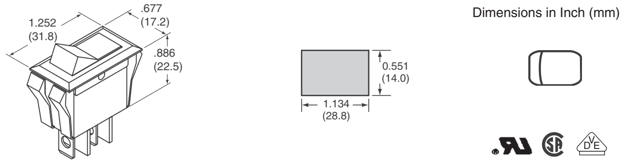

Circuit	Switching Function	Actuator Description	Body Color	Termination	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
SPST	On-Off	Illuminated / Red	Black	.250QC	401-1339-ND	1.83	1.47	1.16	CL102J9RS205QA7

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Honeywell
Sensing and Control

Rocker Switches

FEATURES:

MR93 Series: • Expected electrical life 50,000 cycles • Expected mechanical life 100,000 cycles • UL recognized and CSA certified • Operating Temperature: 0°C ~ 85°C (32°F ~ 185°F) • Quick Connect 0.187 in. x 0.032 in. (4.75mm x 0.81mm)

MRS93 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 100,000 cycles • UL recognized and CSA certified • Operating Temperature: 0°C ~ 85°C (32°F ~ 185°F) • Quick Connect 0.187 in. x 0.032 in. (4.75mm x 0.81mm)

FRx91 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 250,000 cycles • Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) • Quick Connect 0.250 in. x 0.032 in. (6.35mm x 0.81mm)

SRx91 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 150,000 cycles • Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) • Quick Connect 0.250 in. x 0.032 in. (6.35mm x 0.81mm)

Fig.	Circuit	Actuator Description	Dimensions – Inches (mm) W x L x H	Contact Ratings	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
MR93 Series — Miniature Rocker Switches									
1	SPST	Black; Non-Illuminated	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2107-ND	3.78	2.59	2.33	MR93-12BBN
	DPST	Black; Non-Illuminated	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2108-ND	4.68	3.21	2.89	MR93-22BBN
	SPST	Red Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2109-ND	6.49	4.44	4.00	MR93-122B3
	SPST	Green Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2110-ND	6.49	4.44	4.00	MR93-124B3
	DPST	Red Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2111-ND	7.48	5.12	4.61	MR93-222B3
	DPST	Green Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2112-ND	7.48	5.12	4.61	MR93-224B3
	SPST	Red Illuminated; 125V NEON	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 125VAC	480-2113-ND	4.50	3.08	2.78	MR93-122BJ
	SPST	Amber Illuminated; 250V NEON	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2114-ND	4.50	3.08	2.78	MR93-121BK
	DPST	Amber Illuminated; 24V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 24V	480-2115-ND	7.48	5.12	4.61	MR93-221B4
MRS93 Series — Subminiature Rocker Switches									
2	SPST	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	10A, 125VAC	480-2116-ND	2.94	1.92	1.74	MRS93-12BB
	SPST-NO	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2117-ND	2.94	1.92	1.74	MRS93-16BB
	SPST-NC	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2118-ND	2.94	1.92	1.74	MRS93-14BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	10A, 125VAC	480-2119-ND	2.94	1.92	1.74	MRS93-13BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2120-ND	2.94	1.92	1.74	MRS93-18BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2121-ND	2.94	1.92	1.74	MRS93-11BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2122-ND	2.94	1.92	1.74	MRS93-15BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2123-ND	2.94	1.92	1.74	MRS93-17BB
FRN91 Series — Sealed Rocker Switches									
3	SPST	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2124-ND	7.29	5.34	5.00	FRN91-12BB
	DPST	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2125-ND	10.77	7.88	7.38	FRN91-22BB
	SPST-NO	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2126-ND	7.30	5.34	5.00	FRN91-16BB
	DPST-NO	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2127-ND	10.77	7.88	7.38	FRN91-26BB
	SPST-NC	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2128-ND	7.29	5.34	5.00	FRN91-14BB
	DPST-NC	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2129-ND	10.77	7.88	7.38	FRN91-24BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2130-ND	7.29	5.34	5.00	FRN91-13BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2131-ND	10.77	7.88	7.38	FRN91-23BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2132-ND	7.29	5.34	5.00	FRN91-18BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2133-ND	10.77	7.88	7.38	FRN91-28BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2134-ND	7.29	5.34	5.00	FRN91-11BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2135-ND	10.77	7.88	7.38	FRN91-21BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2136-ND	7.29	5.34	5.00	FRN91-15BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2137-ND	10.77	7.88	7.38	FRN91-25BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2138-ND	7.29	5.34	5.00	FRN91-17BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2139-ND	10.77	7.88	7.38	FRN91-27BB
FRL91 Series — Sealed Rocker Switches									
4	DPST	Green/Amber Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2140-ND	13.40	10.26	9.69	FRL91-22CGA3-BB79
	DPDT	Green/Amber Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2141-ND	13.40	10.26	9.69	FRL91-23CGA3-BB79
	DPDT	Green/Green Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2142-ND	13.40	10.26	9.69	FRL91-21CGG3-BB77
	DPDT	Green/Green Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2143-ND	13.40	10.26	9.69	FRL91-27CGG3-BB77
SRN91 Series — Sealed Rocker Switches									
5	SPST	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2144-ND	8.59	6.29	5.89	SRN91-12BB
	DPST	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2145-ND	10.10	7.39	6.92	SRN91-22BB
	SPST-NO	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2146-ND	8.59	6.29	5.89	SRN91-16BB
	DPST-NO	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2147-ND	10.10	7.39	6.92	SRN91-26BB
	SPST-NC	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2148-ND	8.59	6.29	5.89	SRN91-14BB
	DPST-NC	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2149-ND	10.10	7.39	6.92	SRN91-24BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2150-ND	8.59	6.29	5.89	SRN91-13BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2151-ND	10.10	7.39	6.92	SRN91-23BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2152-ND	8.59	6.29	5.89	SRN91-18BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2153-ND	10.10	7.39	6.92	SRN91-28BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2154-ND	8.59	6.29	5.89	SRN91-11BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2155-ND	10.10	7.39	6.92	SRN91-21BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2156-ND	8.59	6.29	5.89	SRN91-15BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2157-ND	10.10	7.39	6.92	SRN91-25BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2158-ND	8.59	6.29	5.89	SRN91-17BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2159-ND	10.10	7.39	6.92	SRN91-27BB
SRL91 Series — Sealed Rocker Switches									
6	DPST	Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2160-ND	14.43	11.05	10.44	SRL91-22ARN3-BB9N
7	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2161-ND	14.43	11.05	10.44	SRL91-23URR3-BB99
	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2162-ND	14.43	11.05	10.44	SRL91-21URR3-BB99
	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2163-ND	14.43	11.05	10.44	SRL91-27URR3-BB99
	DPST	Green/Amber Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2164-ND	14.43	11.05	10.44	SRL91-22UGA3-BB99
	DPDT	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2165-ND	14.43	11.05	10.44	SRL91-23UGG3-BB99
	DPDT	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2166-ND	14.43	11.05	10.44	SRL91-21UGG3-BB99
	DPST	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2167-ND	14.43	11.05	10.44	SRL91-22UGG3-BB99
Accessories									
Rocker Boot					480-2168-ND	6.57	4.50	4.05	SR-01
Connector Housing for SRx91 Series					480-2169-ND	3.13	2.04	1.85	HRSR-01
Connector Housing for FRx91 Series					480-2170-ND	3.13	2.04	1.85	FR-01

Fig. 1

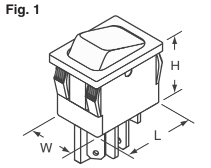

Fig. 2

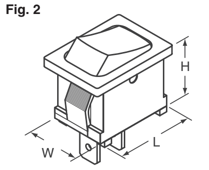

Fig. 3

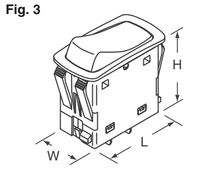

Fig. 4

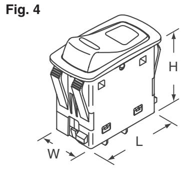

Fig. 5

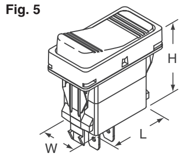

Fig. 6

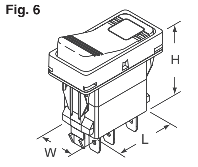

Fig. 7

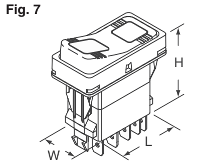

Miniature Toggle Switches

Dimensions in Inches

Features: Molded-in terminals are plated for soldering. There is positive return on momentary versions. All switches come with a lock washer, a keying washer and two hex nuts.
Specifications: • UL Recognized • Temperature Range: -65°C ~ 71°C (-85°F ~ 160°F)

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	SPDT	On-Off-On	Solder	480-2269-ND	23.22	18.48	17.31	11TW1-1
	SPDT	On-None-On	Solder	480-2270-ND	23.22	18.48	17.31	11TW1-3
	SPDT	Mom-Off-On	Solder	480-2271-ND	34.55	27.49	25.75	11TW1-5
	SPDT	Mom-Off-Mom	Solder	480-2272-ND	28.78	22.90	21.45	11TW1-7
2	DPDT	On-Off-On	Solder	480-2273-ND	24.33	19.36	18.14	12TW1-1
	DPDT	On-None-On	Solder	480-2274-ND	24.33	19.36	18.14	12TW1-3
	DPDT	Mom-Off-On	Solder	480-2275-ND	25.27	20.11	18.84	12TW1-5
	DPDT	Mom-Off-Mom	Solder	480-2276-ND	26.28	20.91	19.59	12TW1-7
3	SPST	Off-None-On	Solder	480-2277-ND	23.98	19.08	17.88	1TW1-2
	SPDT	On-None-On	Solder	480-2278-ND	20.51	15.70	14.83	1TW1-3
	SPDT	Mom-None-On	Solder	480-2279-ND	22.56	17.95	16.82	1TW1-8
4	DPST	Off-None-On	Solder	480-2280-ND	26.66	21.21	19.87	2TW1-2
	DPDT	On-None-On	Solder	480-2281-ND	32.82	26.11	24.46	2TW1-3
	DPDT	Mom-None-On	Solder	480-2282-ND	32.94	26.21	24.56	2TW1-8

Fig. 1

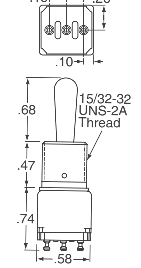

Fig. 2

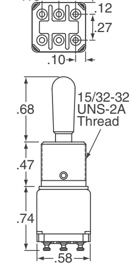

Fig. 3

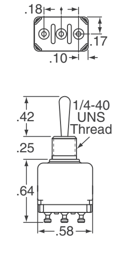

Fig. 4

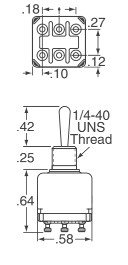

Honeywell
Sensing and Control

Toggle Switches

NT Series — Sealed Toggle Switches: Meet severe environment application needs for a rugged, cost-effective toggle switch. Quality construction features include a molded-in elastomer seal between the toggle lever and bushing, and between the cover and case.

NT Series — Flat Base Sealed Toggle Switches: Meet severe environment application needs for rugged, cost-effective manual switches. These flat base style products are identical to the stepped base style in construction and features.

NT Series Specifications: • UL Recognized, File E12252, Vol. 1, Section 44 • CSA certified • CE approved • Temperature Range: -40°C ~ 71°C (-40°F ~ 160°F) • High Reliability

TL Series — Sealed Toggle Switches: Have high strength, temperature resistant, non-tracking case material and silver cadmium oxide contacts.

TL Series Specifications: • UL recognized • CSA certified • CE approved • Temperature Range: -65°C ~ 71°C (-85°F ~ 160°F) • High Reliability

TS Series — Sealed Toggle Switches: MICRO SWITCH™ TS Series switches have 2 or 3 position, momentary and maintained action switches with 1 and 2 pole circuitry. Switches have solder, screw or quick-connect terminations.

TS Series Specifications: • UL recognized • CSA certified • CE approved

Dimensions in Inches

Fig. 1

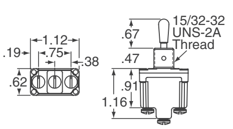

Fig. 2

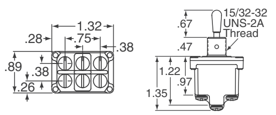

Fig. 3

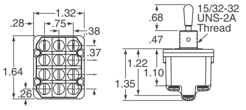

Fig. 4

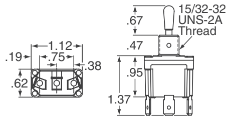

Fig. 5

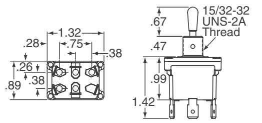

Fig. 6

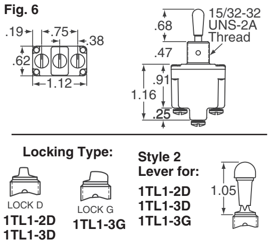

Fig. 7

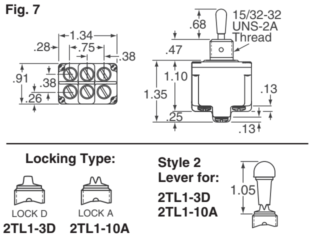

Fig. 8

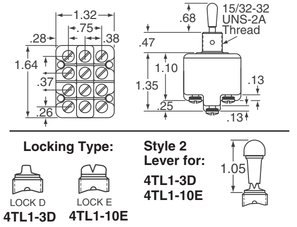

Fig. 9

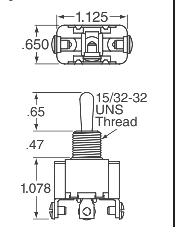

Fig. 10

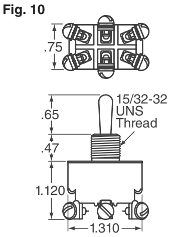

Fig. 11

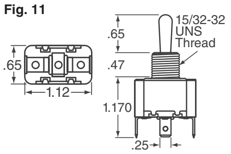

Fig. 12

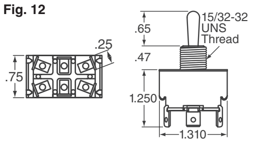

Fig. 13

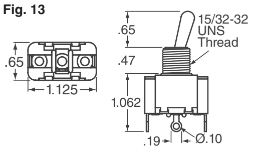

Fig. 14

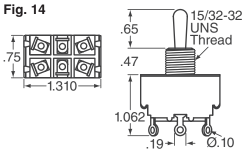

Fig. 15 *NEW!*

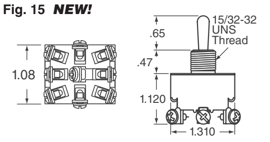

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
NT Series — Sealed Toggle Switches								
1	SPST-NO	Off-None-On	Screw	480-2171-ND	18.92	14.49	13.68	1NT1-2
	SPDT	On-None-On	Screw	480-2172-ND	18.92	14.49	13.68	1NT1-3
	SPST-NO	Mom-None-Off	Screw	480-2173-ND	18.92	14.49	13.68	1NT1-6
	SPDT	Mom-Off-Mom	Screw	480-2174-ND	18.92	14.49	13.68	1NT1-7
	SPDT	Mom-None-On	Screw	480-2175-ND	18.92	14.49	13.68	1NT1-8
2	DPDT	On-Off-On	Screw	480-2176-ND	24.07	19.15	17.95	2NT1-1
	DPST-NO	Off-None-On	Screw	480-2177-ND	24.07	19.15	17.95	2NT1-2
	DPDT	On-None-On	Screw	480-2178-ND	24.07	19.15	17.95	2NT1-3
	DPDT	Mom-Off-On	Screw	480-2179-ND	24.07	19.15	17.95	2NT1-5
	DPDT	Mom-On-On	Screw	480-2180-ND	27.40	21.80	20.43	2NT1-50
	DPDT	Mom-Off-Mom	Screw	480-2181-ND	24.07	19.15	17.95	2NT1-7
3	4PDT	On-Off-On	Screw	480-2189-ND	39.08	31.09	29.13	4NT1-1
	4PDT	Mom-Off-Mom	Screw	480-2190-ND	40.96	32.59	30.53	4NT1-7
NT Series — Flat Base Sealed Toggle Switches								
4	SPDT	On-Off-On	Quick Connect	480-2182-ND	17.05	13.05	12.33	31NT91-1
	SPST-NO	Off-None-On	Quick Connect	480-2183-ND	17.05	13.05	12.33	31NT91-2
	SPDT	On-None-On	Quick Connect	480-2184-ND	17.05	13.05	12.33	31NT91-3
	SPDT	Mom-Off-Mom	Quick Connect	480-2185-ND	17.05	13.05	12.33	31NT91-7
5	DPDT	On-Off-On	Quick Connect	480-2186-ND	21.49	17.10	16.02	32NT91-1
	DPDT	Mom-Off-Mom	Quick Connect	480-2187-ND	21.49	17.10	16.02	32NT91-7
	DPDT	Mom-On-Mom	Quick Connect	480-2188-ND	21.49	17.10	16.02	32NT91-70
TL Series — Sealed Toggle Switches								
6	SPDT	On-Off-On	Screw	480-2191-ND	24.07	19.15	17.95	1TL1-1
	SPST-NO	Off-None-On	Screw	480-2192-ND	24.07	19.15	17.95	1TL1-2
	SPDT	On-None-On	Screw	480-2194-ND	24.07	19.15	17.95	1TL1-3
	SPDT	Mom-Off-On	Screw	480-2197-ND	24.07	19.15	17.95	1TL1-5
	SPST-NO	Mom-None-Off	Screw	480-2198-ND	24.07	19.15	17.95	1TL1-6
	SPDT	Mom-Off-Mom	Screw	480-2199-ND	24.07	19.15	17.95	1TL1-7
	SPDT	Mom-None-On	Screw	480-2200-ND	24.07	19.15	17.95	1TL1-8
7	DPDT	On-Off-On	Screw	480-2201-ND	32.83	26.11	24.47	2TL1-1
	DPST-NO	Off-None-On	Screw	480-2204-ND	32.17	25.60	23.98	2TL1-2
	DPDT	On-None-On	Screw	480-2205-ND	32.17	25.60	23.98	2TL1-3
	DPDT	Mom-Off-On	Screw	480-2207-ND	32.83	26.11	24.47	2TL1-5
	DPST-NO	Mom-None-Off	Screw	480-2209-ND	32.83	26.11	24.47	2TL1-6
	DPDT	Mom-Off-Mom	Screw	480-2210-ND	32.17	25.60	23.98	2TL1-7
	DPDT	Mom-None-On	Screw	480-2212-ND	32.17	25.60	23.98	2TL1-8
	DPDT	On-On-On	Screw	480-2202-ND	37.02	29.45	27.59	2TL1-10
	DPDT	Mom-On-On	Screw	480-2208-ND	37.76	30.04	28.14	2TL1-50
	DPDT	Mom-On-Mom	Screw	480-2211-ND	37.76	30.04	28.14	2TL1-70
8	4PDT	On-Off-On	Screw	480-2213-ND	53.30	44.16	42.25	4TL1-1
	4PST-NO	Off-None-On	Screw	480-2216-ND	53.30	44.16	42.25	4TL1-2
	4PDT	On-None-On	Screw	480-2217-ND	53.30	44.16	42.25	4TL1-3
	4PDT	Mom-Off-Mom	Screw	480-2219-ND	53.30	44.16	42.25	4TL1-7
	4PDT	On-On-On	Screw	480-2215-ND	57.14	47.34	45.29	4TL1-12

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
TS Series — Sealed Toggle Switches								
9	SPDT	On-Off-On	Screw	480-3052-ND	6.57	4.81	4.50	11TS15-1
	SPST-NO	Off-None-On	Screw	480-3053-ND	5.63	3.86	3.47	11TS15-2
	SPDT	On-None-On	Screw	480-3054-ND	6.91	5.06	4.73	11TS15-3
	SPST-NC	Mom-None-On	Screw	480-3055-ND	8.15	5.96	5.58	11TS15-4
	SPDT	Mom-Off-On	Screw	480-3056-ND	8.15	5.96	5.58	11TS15-5
	SPST-NO	Mom-None-Off	Screw	480-3057-ND	6.91	5.06	4.73	11TS15-6
	SPDT	Mom-Off-Mom	Screw	480-3058-ND	8.35	6.11	5.72	11TS15-7
	SPDT	Mom-None-On	Screw	480-3059-ND	8.15	5.96	5.58	11TS15-8
10	DPDT	On-Off-On	Screw	480-3060-ND	9.63	7.05	6.60	12TS15-1
	DPDT	On-None-On	Screw	480-3061-ND	9.63	7.05	6.60	12TS15-3
	DPST-NC	Mom-None-On	Screw	480-3283-ND	9.63	7.05	6.60	12TS15-4
	DPST-NO	Mom-None-Off	Screw	480-3062-ND	9.63	7.05	6.60	12TS15-6
	DPDT	Mom-Off-Mom	Screw	480-3063-ND	10.77	7.89	7.38	12TS15-7
	DPDT	Mom-None-On	Screw	480-3064-ND	10.77	7.89	7.38	12TS15-8
11	SPDT	On-Off-On	Quick Connect	480-3065-ND	6.05	4.14	3.73	11TS95-1
	SPST-NO	Off-None-On	Quick Connect	480-3066-ND	4.92	3.37	3.03	11TS95-2
	SPDT	On-None-On	Quick Connect	480-3067-ND	6.05	4.14	3.73	11TS95-3
	SPST-NO	Mom-None-Off	Quick Connect	480-3068-ND	5.51	3.78	3.40	11TS95-6
	SPDT	Mom-Off-Mom	Quick Connect	480-3069-ND	6.96	4.77	4.29	11TS95-7
12	DPDT	On-Off-On	Quick Connect	480-3070-ND	7.84	5.74	5.38	12TS95-1
	DPST-NO	Off-None-On	Quick Connect	480-3071-ND	6.57	4.81	4.50	12TS95-2
	DPDT	On-None-On	Quick Connect	480-3072-ND	7.84	5.74	5.38	12TS95-3
	DPDT	Mom-Off-Mom	Quick Connect	480-3074-ND	19.79	15.15	14.31	12TS95-7
13	SPDT	On-Off-On	Solder Ring	480-3075-ND	6.57	4.81	4.50	11TS115-1
	SPST-NO	Off-None-On	Solder Ring	480-3076-ND	5.63	3.86	3.47	11TS115-2
	SPDT	On-None-On	Solder Ring	480-3077-ND	6.91	5.06	4.73	11TS115-3
	SPDT	Mom-Off-On	Solder Ring	480-3078-ND	8.15	5.96	5.58	11TS115-5
	SPST-NO	Mom-None-Off	Solder Ring	480-3079-ND	8.15	5.96	5.58	11TS115-6
	SPDT	Mom-Off-Mom	Solder Ring	480-3080-ND	6.91	5.06	4.73	11TS115-7
	SPDT	Mom-None-On	Solder Ring	480-3081-ND	8.35	6.11	5.72	11TS115-8
14	DPDT	On-Off-On	Solder Ring	480-3082-ND	9.63	7.05	6.60	12TS115-1
	DPST-NO	Off-None-On	Solder Ring	480-3083-ND	8.55	6.26	5.86	12TS115-2
	DPDT	On-None-On	Solder Ring	480-3084-ND	9.63	7.05	6.60	12TS115-3
	DPDT	Mom-Off-On	Solder Ring	480-3085-ND	10.77	7.89	7.38	12TS115-5
	DPDT	Mom-Off-Mom	Solder Ring	480-3086-ND	10.77	7.89	7.38	12TS115-7
	DPDT	Mom-None-On	Solder Ring	480-3087-ND	10.77	7.89	7.38	12TS115-8
15	3PDT	On-Off-On	Screw	480-3314-ND ***NEW!***	12.76	9.77	9.23	13TS15-1
	3PST	On-Off	Screw	480-3315-ND ***NEW!***	12.76	9.77	9.23	13TS15-2
	3PDT	On-On	Screw	480-3316-ND ***NEW!***	12.56	9.62	9.08	13TS15-3
	3PDT	Mom-Off-Mom	Screw	480-3317-ND ***NEW!***	12.76	9.77	9.23	13TS15-7
Locking Switches								
TL Series — Sealed Toggle Switches								
6	SPST-NO	Off-None-On	Screw	480-2193-ND†	41.49	33.01	30.93	1TL1-2D
	SPDT	On-None-On	Screw	480-2195-ND†	43.49	34.60	32.42	1TL1-3D
	SPDT	On-None-On	Screw	480-2196-ND‡	44.35	35.28	33.06	1TL1-3G
7	DPDT	On-None-On	Screw	480-2206-ND†	47.65	39.48	37.78	2TL1-3D
	DPDT	On-On-On	Screw	480-2203-ND◊	52.46	43.46	41.58	2TL1-10A
8	4PDT	On-None-On	Screw	480-2218-ND†	70.22	58.18	55.67	4TL1-3D
	4PDT	On-Off-On	Screw	480-2214-NDΔ	73.45	60.85	58.22	4TL1-10E

† Locked out of center position ‡ Locked in extreme position (keyway side) ◊ Locked in three positions Δ Locked in center position

Honeywell
Sensing and Control

AML and PB Series Switches and Indicators

AML Series: Features: MICRO SWITCH™ AML Advanced Manual Line combines functional flexibility with electrical versatility to provide a broad range of options to choose from.
Installation: They snap in from the panel front individually or in vertical or horizontal strips; or in sub panel mounted strips and matrices that can be pre-assembled and pre-wired to assure accurate alignment and efficient panel building.
Characteristics:

- UL recognized, CSA certification
- Electrical/Mechanical Life: 25,000 cycles

PB Series: Features: These switches resemble the touch-feedback design, but have a flexible leaf actuator for lower operating force and shorter button travel. An elastomer seal is bonded between actuating plunger and button collar. An O-ring seals the button assembly to the panel front.

AML Series — Pushbutton Switches

Dim. in Inches

Fig. 1

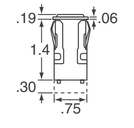

Fig. 2

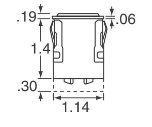

Fig.	Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	SPDT	Square; Illum.	0.4 ~ 2A @ 0.5 ~ 250VAC	.110”x.020” QC	480-2220-ND	18.47	14.14	13.36	AML21CBA2AA
	SPDT	Square; Illum.		.110”x.020” QC	480-2221-ND	19.04	14.58	13.77	AML21CBA2AB
	SPDT	Square; Illum.		.025”x.025” PO	480-2224-ND	18.47	14.14	13.36	AML21CBA3AA
	SPDT	Sq.; Non-Illum.		.110”x.020” QC	480-2294-ND	14.53	11.12	10.50	AML21BBA2AA
	SPDT	Rect.; Non-Illum.		.110”x.020” QC	480-2226-ND	16.08	12.31	11.63	AML21EBA2AA
	SPDT	Rectangle; Illum.		.110”x.020” QC	480-2228-ND	21.53	17.13	16.05	AML21GBA2AA
1	DPDT	Square; Illum.	0.4 ~ 2A @ 0.5 ~ 250VAC	.110”x.020” QC	480-2222-ND	20.89	16.62	15.58	AML21CBA2AC
	DPDT	Square; Illum.		.110”x.020” QC	480-2223-ND	21.34	16.98	15.91	AML21CBA2AD
	DPDT	Square; Illum.		.025”x.025” PO	480-2225-ND	22.52	17.24	16.28	AML21CBA3AC
	DPDT	Rectangle; Illum.		.110”x.020” QC	480-2227-ND	22.37	17.80	16.68	AML21FBA2AC
	DPDT	Rectangle; Illum.		.110”x.020” QC	480-2229-ND	26.08	20.75	19.44	AML21GBA2AD
2	DPST	Rect.; Non-Illum.	0.4 ~ 10A @ 0.5 ~ 250VAC	.187”x.020” QC	480-2230-ND	26.50	21.09	19.76	AML31EBA4AC
	DPST	Rect.; Non-Illum.		.187”x.020” QC	480-2231-ND	27.18	21.63	20.26	AML31EBA4AD
	DPST	Rectangle; Illum.		.187”x.020” QC	480-2232-ND	28.42	22.61	21.18	AML31FBA4AC
	DPST	Rectangle; Illum.		.187”x.020” QC	480-2233-ND	29.71	23.64	22.15	AML31FBA4AD
	DPST	Rectangle; Illum.		.187”x.020” QC	480-2234-ND	33.65	26.77	25.09	AML32FBB4AD
	DPST	Rectangle; Illum.		.187”x.020” QC	480-2235-ND	31.99	25.45	23.85	AML32FBB7AD
	DPST	Rectangle; Illum.		.187”x.020” QC	480-2236-ND	33.65	26.77	25.09	AML32FBK4AD

PB Series — Pushbutton Switches

Dim. in Inches

Fig. 1

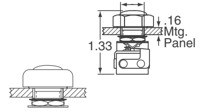

Fig. 2

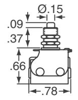

Fig. 3

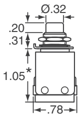

* Dim. = .99 for 480-2286-ND

Fig. 4

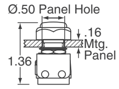

Fig. 5

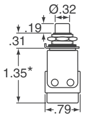

* Dim. = 1.05 for 480-2290-ND

Fig.	Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	SPDT	Round; Black Alum.	5A @ 250VAC	Solder	480-2283-ND◆	83.28	69.00	66.02	1PB4
1	SPDT	Round; Black Alum.		Solder	480-2284-ND	80.04	66.31	63.45	1PB42
2	SPDT	Round; Steel		Solder	480-2285-ND	45.20	35.95	33.69	1PB5
3	SPDT	Round; Black Plastic		Solder	480-2286-ND◆	69.60	57.66	55.17	2PB11
3	SPDT	Round; Black Plastic		Solder	480-2287-ND	69.60	57.66	55.17	2PB11-T2
3	SPDT	Round; Red Plastic		Solder	480-2288-ND	69.60	57.66	55.17	2PB12-T2
4	SPDT	Round; Black Alum.		Solder	480-2289-ND	106.59	90.26	86.75	2PB4
5	SPDT	Round; Black Plastic		Solder	480-2293-ND◆	91.33	77.34	74.33	82PB19-T2
5	SPDT	Round; Black Plastic	5A @ 28VDC	Solder	480-2290-ND◆	85.41	70.75	67.70	2PB732-T2
	SPDT	Round; Black Plastic		Solder	480-2291-ND◆	732.97	641.95	619.44	702PB1
	SPDT	Round; Black Plastic		Solder	480-2292-ND◆	765.49	676.08	653.60	704PB1

◆ ***RoHS Compliant***

AML Series — Rocker and Paddle Switches

Dim. in Inches

Fig. 1

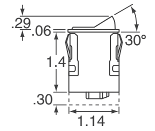

Fig. 2

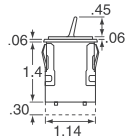

Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
Fig. 1 — Rocker Switches								
DPDT	Rect.; Non-Illum.	3A @ 125VAC	.110”x.02” QC	480-2237-ND	26.54	21.11	19.78	AML24EBA2BC01
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2239-ND	19.40	14.85	14.03	AML24EBA2AA01
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2240-ND	19.40	14.85	14.03	AML24EBA2AA06
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2241-ND	21.93	16.79	15.86	AML24EBA2BA01
DPST	Rect.; Non-Illum.	15A @ 125VAC	.187”x.02” QC	480-2242-ND	28.66	22.80	21.36	AML34EBA4AC01
DPST	Rect.; Illum.		.187”x.02” QC	480-2243-ND	31.37	24.96	23.38	AML34FBA4AC01
Fig. 2 — Paddle Switch								
DPDT	Rect.; Illum.	3A @ 125VAC	.110”x.02” QC	480-2238-ND	40.00	31.82	29.82	AML23GBA2CA01

AML Series — Indicators

Dim. in Inches

Fig. 1

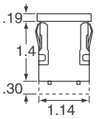

Fig. 2

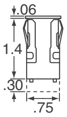

Circuit	Housing Type	Terminal Type	Lamp Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
Fig. 1 — Incandescent Display Indicators								
SPST	Square	.110”x.02” QC	1 Lamp Circuit	480-2244-ND	11.53	8.83	8.34	AML41CBA2
SPST	Square		2 Lamp Circuits	480-2245-ND	14.14	10.83	10.23	AML41DBA2
SPST	Rectangle		1 Lamp Circuit	480-2246-ND	12.48	9.55	9.02	AML41FBA2
SPST	Rectangle		2 Lamp Circuits	480-2247-ND	15.94	12.20	11.53	AML41GBA2
Fig. 2 — LED Display Indicators								
SPST	Compact	.110”x.02” QC	Red; 24V	480-2249-ND	20.68	15.84	14.96	AML42SBF2
SPST	Compact		Yellow; 5V	480-2250-ND	19.53	14.96	14.13	AML42SBJ2
SPST	Compact		Yellow; 24V	480-2251-ND	22.62	18.00	16.86	AML42SBM8
SPST	Compact		Green; 5V	480-2252-ND	19.53	14.96	14.13	AML42SBS2
SPST	Compact		Green; 24V	480-2253-ND	20.68	15.84	14.96	AML42SBX2

Accessories for AML Series

Dim. in Inches

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	Square Button for Pushbuttons; Red	480-2254-ND	4.68	3.21	2.89	AML51-A10R
	Square Button for Pushbuttons; Red	480-2255-ND	2.30	1.50	1.36	AML51-C10R
	Square Button for Pushbuttons; White	480-2256-ND	2.30	1.50	1.36	AML51-C10W
	Square Button for Pushbuttons; White with Clear Cap	480-2257-ND	4.05	2.78	2.50	AML51-C11W
	Rectangle Button for Pushbuttons; Red	480-2258-ND	3.44	2.24	2.04	AML51-F10R
2	Rectangle Button for Pushbuttons; Black	480-2259-ND	3.44	2.24	2.04	AML52-N10K
	Rectangle Button for Pushbuttons; Red	480-2260-ND	3.44	2.24	2.04	AML52-N10R
3	Full Rocker Operator Cover; Red	480-2261-ND	3.51	2.41	2.17	AML54-F10R
4	Short End Barrier for AML Pushbuttons; Black	480-2262-ND	2.71	1.77	1.61	AML71SEB
5	Panel Seal for Square Pushbuttons	480-2263-ND	7.35	5.38	5.04	AML75ABC
6	Panel Seal for Rectangle Pushbuttons	480-2264-ND	7.28	5.33	4.99	AML75BBC
7	Switch Guard for Square Pushbuttons	480-2265-ND	11.98	8.76	8.21	AML76C10T01P
8	Switch Guard for Rectangle Pushbuttons	480-2266-ND	11.98	8.76	8.21	AML76F10T01P
9	Incandescent Lamp; 14V	480-2267-ND	4.05	2.78	2.50	AML91LA73
	Incandescent Lamp; 28V	480-2268-ND	4.05	2.78	2.50	AML91LA85

Fig. 1

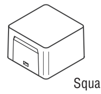
Square shown

Fig. 2

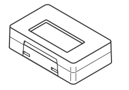

Fig. 3

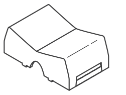

Fig. 4

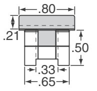

Fig. 5

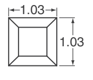

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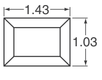

Fig. 7

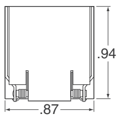

Fig. 8

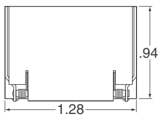

Fig. 9

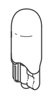

APEM Rocker Switches

Dimensions in mm

AS Series: **Features:** • Double insulation • Epoxy sealed terminals • **Insulation Resistance:** 10,000MΩ Minimum • **Electrical Life:** 50,000 cycles • **Operating Temperature Range:** -40°C ~ 85°C

2600 Series: • **Insulation Resistance:** 1,000MΩ Minimum at 500VDC • **Dielectric Strength:** 2,500Vrms Minimum (between terminals) • **Electrical Life:** 10,000 cycles minimum at full load • **Operating Temperature Range:** -20°C ~ 125°C

FM Series: **Features:** • Ergonomically designed models for class II appliances • Double shell case provides sealing protection from dust and moisture • International standard panel cut-out • Insulation Resistance: 1,000MΩ Minimum • **Electrical Life:** 10,000 cycles at full load • **Mechanical Life:** 50,000 cycles minimum • **Operating Temperature Range:** -20°C ~ 85°C

Fig.	Circuit	Switch Function	Actuator Description	Terminals	Contact Ratings	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
AS Series										
1	SPDT	On-Mom	Black	Solder Lug	4A 152VAC	679-1148-ND	3.81	3.48	3.14	AS32S010010
	SPDT	On-On	Black	Solder Lug	4A 152VAC	679-1149-ND	3.33	3.04	2.75	AS36S010010
	SPDT	On-Off-On	Black	Solder Lug	4A 152VAC	679-1150-ND	3.16	2.89	2.61	AS39S010010
	SPDT	Mom-Off-Mom	Black	Solder Lug	4A 152VAC	679-1151-ND	3.81	3.48	3.14	AS37S010010
	SPDT	On-On	Black	PCB	0.4VA 20V	679-1152-ND	2.89	2.64	2.38	AS36P0000
	SPDT	On-Off-On	Black	PCB	0.4VA 20V	679-1153-ND	3.16	2.89	2.61	AS39P0000
	SPDT	Mom-Off-Mom	Black	PCB	0.4VA 20V	679-1154-ND	3.60	3.29	2.97	AS37P0000
2600 Series										
2	DPST	On-Off	Red	.250"QC	16A	679-1178-ND	4.45	4.07	3.67	2641LH/2A216000L0
	DPST	On-Off	Black	.250"QC	16A	679-1179-ND	4.69	4.28	3.87	2641LH/2A212000L0
	DPDT	On-Off-On	Black	.250"QC	10A	679-1180-ND	6.46	5.89	5.32	2649LH/2A212000L0
	DPDT	Mom-Off-Mom	Black	.250"QC	10A	679-1182-ND	7.04	6.42	5.80	2647LH/2A212000L0
FM Series										
3	SPST	On-Off	Black	Solder Lug	6A	679-1183-ND	1.43	1.31	1.18	FMC12A2200000
	SPST	On-Off	Black ON OFF	.185"QC	6A	679-1184-ND	2.41	2.21	1.99	FMC18A2200005
	SPST	Mom-Off	Black	Solder Lug	4A	679-1185-ND	2.82	2.58	2.33	FMC32A2200000
	SPDT	On-Off-On	Black	Solder Lug	6A	679-1186-ND	1.90	1.74	1.57	FMC92A2200000
	SPDT	On-On	Black	Solder Lug	6A	679-1187-ND	1.73	1.59	1.43	FMC62A2200000

Fig. 1

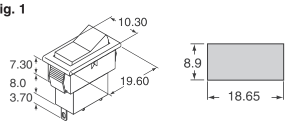

Fig. 2

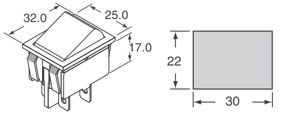

Fig. 3

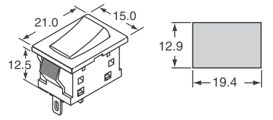

Toggle Switches

MT Series Environmentally Sealed (IP68)

Dimensions in mm

Specifications: • **Current/Voltage Rating:** 3A @ 250VAC, 6A @ 125VAC, 4A @ 30VDC • **Initial Contact Resistance:** 10mΩ Maximum • **Insulation Resistance:** 1,000MΩ Minimum @ 500VDC • **Dielectric Strength:** 1,000Vrms 50Hz Minimum between terminals, 1,500Vrms 50Hz Minimum between terminals and frame • **Contact Bounce:** 2ms Maximum • **Electrical Life At Full Load:** 50,000 cycles • **Low Level or Mechanical Life:** 100,000 cycles • **Operating Temperature:** -40°C ~ 85°C • **Mounting hardware included:** one hex nut and one sealing gasket **Materials:** • **Actuator:** 6/6 Nylon • **Bushing:** Brass, nickel plated • **Contacts:** Silver, gold plated • **Terminals:** Solder lug • **Terminal Seal:** Epoxy

Switch Function	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Mom-Off-Mom	679-1420-ND	31.75	26.46	23.46	MTG72AD2
On-Mom	679-1421-ND	31.75	26.46	23.46	MTG22AD2
On-On	679-1422-ND	31.75	26.46	23.46	MTG62AD2
On-Off-Mom	679-1423-ND	31.75	26.46	23.46	MTG82AD2
On-Off-On	679-1424-ND	31.75	26.46	23.46	MTG92AD2

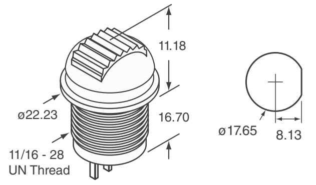

Keylock Switches

Features: • Multiple key-pull position options • 45° or 90° indexing **Specifications:** • **Contact Ratings:** Maximum resistive loads: 4A @ 125VAC, 2A @ 250VAC • **Operating Temperature Range:** -30°C ~ 85°C • **Electrical Life:** 6,000 cycles at full load • **Contacts:** Gold over silver over copper alloy • **Lock:** Nickel plated zinc alloy • **Case:** Glass filled polyester • **Mounting Nut:** Nickel plated zinc alloy • **Keys:** Nickel plated brass

Dimensions in mm

Circuit	Keypull Possible	Switch Function	Connected Terminals Pos. 1	Pos. 2	Pos. 3	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
DP	1,2,3	On-On-On	8-1 4-5	1-2 5-6	7-8 3-4	679-1191-ND	16.73	15.26	13.78	JD7509J
	1	On-On	8-1 4-5	1-3 5-7	—	679-1193-ND	16.32	14.88	13.44	JD7509O
	2	On-On	8-1 4-5	1-3 5-7	—	679-1194-ND	16.32	14.88	13.44	JD7509Q
	1,2	On-On	8-1 4-5	1-3 5-7	—	679-1196-ND	16.32	14.88	13.44	JD7509S
SP	1	On-On	8-1	1-3	—	679-1192-ND	16.32	14.88	13.44	JD7509N
	1,2	On-On	8-1	1-3	—	679-1195-ND	16.32	14.88	13.44	JD7509R
	1	On-Mom	8-1	1-2	—	679-1197-ND	19.01	17.33	15.66	JD7510A
	1	Mom-On-Mom	8-1	1-2	7-8	679-1198-ND	19.01	17.33	15.66	JD7510E
Replacement Key						679-1835-ND	3.33	3.04	2.75	A126

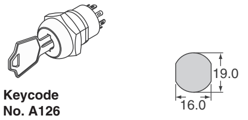

Keycode
No. A126
Supplied with 2 keys

I

Carling Technologies Curvette Rocker Switches

The R Series Curvette line of Rocker Switches are Snap-In power switches used in Appliances, Medical, HVAC, Lawn & Garden and Transportation markets. The Dual Molded Visi-Rocker gives visual indication whether the switch is On or Off and will never burn out like Illuminated Rockers or wear off like Ink Stamped actuators. **Specifications:** 10A @ 250VAC, 16A @ 125VAC, RD221 = 8A @ 250VAC, 12A @ 125VAC **Dielectric Strength:** UL/CSA: 1000V live to dead metal. 750V across open contacts. **Electrical Life:** 100,000 cycles Mechanical Life: 100,000 cycles Operating Temperature: 0°C ~ 85°C Terminal: .250" QC

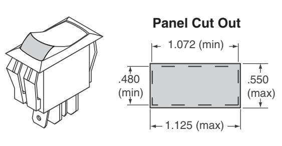

Circuit	Switch Function	Body Color	Actuator Color	Markings	Digi-Key Part No.	Price Each 1	10	25	Carling Tech. Part No.
SPST	On-Off	Black	Black	None	432-1110-ND	1.59	1.23	.86	RA901-RB-B-0-N
SPST	On-Off	Black	Black	Vert. "Off-On"	432-1111-ND	1.72	1.33	.93	RA901-RB-B-A-N
SPST	On-Off	Black	Black	Vert. "On-Off"	432-1112-ND	1.72	1.33	.93	RA901-RB-B-F-N
SPST	On-Off	Black	Black/Visi-Red	None	432-1115-ND	1.72	1.33	.93	RA901-VB-B-0-V
SPST	On-Off	Black	Black/Visi-Red	Vert. "Off-On"	432-1116-ND	1.72	1.33	.93	RA901-VB-B-1-V
SPST	On-Off	Black	Black/Visi-Red	Horz. "Off-On"	432-1117-ND	1.72	1.33	.93	RA901-VB-B-2-V
SPST	On-Off	Black	Black/Visi-Red	Vert. I-O	432-1118-ND	1.72	1.33	.93	RA901-VB-B-9-V
SPST	On-Off	White	White/Visi-Red	Vert. "Off-On"	432-1120-ND	1.85	1.43	1.00	RA901-VW-W-1-V
SPDT	On-Off-On	Black	Black	None	432-1121-ND	1.59	1.23	.86	RC911-RB-B-0-N
SPST	Off-Mom	Black	Black	None	432-1122-ND	2.28	1.75	1.23	RD221-MB-B-0-N

CW Industries IndicON™ Rocker Switches

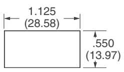

Panel Cut Out

Fig. 1

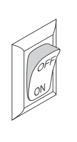

Fig. 2

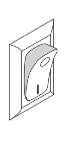

Fig. 3

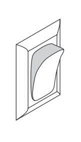

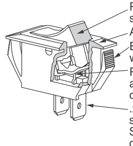

Positive indication of electrical status using two-color rocker knob
Attractive, soft matte finish
Easy self-lock panel mounting without tools or additional hardware
Patented unique sliding and rotating action of moving contact ensures contact cleanliness and extended life
.250 (6.35) terminals permit use of standard female connectors.
Shallow housing design provides optimum terminal wiring space

IndicON rocker switches are the right choice wherever you want performance combined with style. Provides users with a positive indication whether switch is "On" or "Off". Unlike lighted rocker switches which may burn out over time, there's never a safety concern with IndicON switches. **Features:** • Economical alternative to lighted switches • Fast and secure mounting - no hardware required • Long life, reliable operation • Two color molding process provides permanent legends • Compatible appearance with other CW switches **Electrical Specifications:** 16A @ 125VAC rating without precious metals **Agency Certifications:** UL, CSA and VDE

Fig.	Switch Color	Actuator Color	Circuit	Switch Function	Term. Type Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CW Industries Part No.
1	Black	Red	SPST	On-Off	.250QC (6.35)	SW344-ND	1.09	.97	.81	.70	NAA-111-BI11-00
1	Black	Red	SPDT	On-On	.250QC (6.35)	SW349-ND	1.17	1.04	.87	.75	NBA-111-BI11-00
2	Black	Red	SPST	On-Off	.250QC (6.35)	SW354-ND	1.09	.97	.81	.70	NAA-111-BI21-00
3	Black	Red	SPST	On-Off	.250QC (6.35)	SW620-ND	1.09	.97	.81	.70	NAA-111-BI31-00
3	Black	Red	SPDT	On-On	.250QC (6.35)	SW621-ND	1.50	1.34	1.12	.97	NBA-111-BI31-00

Panel Mount Rocker Switches

Mini Rocker Switches

CW Rocker switches are single pole or double pole switches capable of currents normally associated with much larger switches. Standard black body with either black or red rocker knob. Designed to satisfy unique styling requirements which can be the key to a product's success. Switches with markings are white ink stamped markings on rocker knob. Illuminated "Soft Glow" switches are 110VAC neon bulbs, red diffused lens. All terminals are .187" QC. **Typical Applications:** Motor-driven devices, instruments, household appliances, automotive accessories, recreational vehicles and telecommunication, computer and computer peripheral equipment. **MATERIALS: • Rocker Knob:** Nylon 94V-2 **• Housing:** Nylon 94V-2 **• Terminal/Stationary/Moving Contact:** Copper alloy and/or copper alloy silver plated **MOUNTING:** Self locks without hardware when popped into the panel cutout. Acceptable panel thickness range is from .050" ~ .150" (1.27mm ~ 3.81mm). **PERFORMANCE STANDARDS: Contact Resistance:** Less than .01Ω @ 10mA (initial) **Operating Temperature:** 105°C maximum ***Caution:*** Burr direction must be away from the direction of insertion.

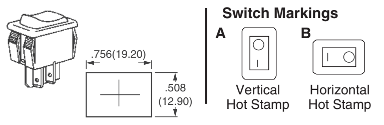

Switch Marking	Rocker Color	Circuit	Finish	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	50	100	CW Industries Part No.
—	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW339-ND‡	1.09	.97	.81	.70	GRS-4011-0024
—	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW301-ND	.99	.89	.74	.64	GRS-4011-1600
—	Red	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW302-ND	.99	.89	.74	.64	GRS-4011-0040
B	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW322-ND	1.10	.98	.82	.71	GRS-4011-0068
A	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW323-ND	1.10	.98	.82	.71	GRS-4011-0076
—	Black	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW303-ND	1.07	.96	.80	.69	GRS-4012-1600
—	Red	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW304-ND	1.07	.96	.80	.69	GRS-4012-0026
A	Black	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW324-ND	1.18	1.05	.88	.76	GRS-4012-0047
—	Black	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW307-ND	1.53	1.36	1.14	.98	GRS-4022-1600
—	Red	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW308-ND	1.53	1.36	1.14	.98	GRS-4022-0010
A	Black	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW325-ND	1.63	1.45	1.21	1.04	GRS-4022-0013
—	Black	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW305-ND	1.36	1.21	1.01	.87	GRS-4013A-1300
—	Red	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW306-ND	1.36	1.21	1.01	.87	GRS-4013A-0008
—	Black	SPST	Matte	Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW329-ND	1.16	1.04	.87	.75	GRS-4011B-1300
—	Black	SPDT	Matte	Mom/Off/Mom	8A 125VAC, 4A 250VAC	UL, CSA	SW340-ND	1.34	1.20	1.00	.86	GRS-4013C-0001
—	Black	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW309-ND	1.81	1.61	1.35	1.16	GRS-4023A-1300
—	Red	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW310-ND	1.81	1.61	1.35	1.16	GRS-4023A-0009
—	Black	DPST	Matte	Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW330-ND	1.61	1.43	1.20	1.03	GRS-4021B-0000
—	Black	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW311-ND	1.81	1.61	1.35	1.16	GRS-4023C-1300
—	Red	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW312-ND	1.81	1.61	1.35	1.16	GRS-4023C-0005
—	Red Illuminated	SPST	Matte	On/Off	16A 125VAC	UL, CSA	SW300-ND	2.51	2.23	1.86	1.61	GRL-4011-1600

‡ Note: Eyelet Terminals

Standard Rocker Switches

CW Rocker Switches are designed to solve the switching problems of the user and styled to satisfy the designer. They are easy to mount, easy to terminate and easy to actuate. Hot stamped versions are marked for switch position identification; illuminated version is 120VAC neon bulb. **OPERATING STANDARDS: Temperature:** 105°C Maximum **Contact Resistance:** 0.01Ω at 10mA. **MATERIALS: Rocker Knob:** Nylon 94V-4. **Housing:** Nylon 94V-2. **Terminal Board:** Nylon 94V-0. **Terminal/Moving Contact:** Copper and/or copper alloy silver plated. **MOUNTING:** No hardware or tools needed; self locks into proper panel cutout. Acceptable panel thickness range is from .025" ~ .180" (0.64mm ~ 4.57mm). All terminals are .250" QC. ***Caution:*** Burr direction must be away from the direction of insertion.

Fig. 1

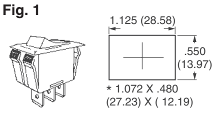

Fig. 2

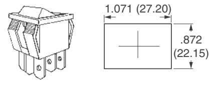

A Switch Marking

Vertical Hot Stamp

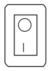

Fig.	Switch Marking	Rocker Color	Finish	Circuit	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	50	100	CW Industries Part No.
1	—	Red Illum.	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW313-ND	2.03	1.80	1.50	1.30	GRL-2011-1600
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW314-ND	.95	.85	.71	.61	GRS-2011-2000
	—	Red	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW315-ND	.95	.85	.71	.61	GRS-2011-2019
	A	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW326-ND	1.05	.94	.78	.67	GRS-2011-2080
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW316-ND*	.95	.85	.71	.61	GRS-2011-3000
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW319-ND*	1.33	1.19	.99	.85	GRS-2012-3000
	A	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW341-ND*	1.07	.95	.79	.69	GRS-2011-3020
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW317-ND	1.03	.92	.77	.66	GRS-2012-2000
	—	Red	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW318-ND	1.03	.92	.77	.66	GRS-2012-2009
	A	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW327-ND	1.14	1.02	.85	.73	GRS-2012-2028
	—	Black	Matte	SPDT	On/Off/On	16A 125VAC, 12A 250VAC	UL, CSA	SW320-ND	1.33	1.19	.99	.85	GRS-2013A-2000
	—	Black	Matte	SPST-NO	Off/Mom	13A 125VAC	UL, CSA	SW613-ND	1.35	1.20	1.00	.87	GRS-2011B-2000
	—	Black	Matte	SPST-NC	On/Mom	13A 125VAC	UL, CSA	SW614-ND	1.35	1.20	1.00	.87	GRS-2011C-2000
	—	Black	Matte	SPDT	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW622-ND	2.01	1.79	1.49	1.29	GRS-2013C-1300
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW623-ND	1.03	.92	.77	.66	GRS-2012-2600
	—	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW624-ND	.95	.85	.71	.61	GRS-2011-2600
2	—	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW321-ND	2.57	2.29	1.91	1.65	GR-2022-1600
	A	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW328-ND	2.72	2.43	2.02	1.75	GR-2022-0007

* Dimensions are 1.072" x .480" (27.23mm x 12.19mm)

NEW! Rocker Switches — GRB Series

The GRB line of rocker switches is available in ratings ranging from 3~20A @ 12~24VDC and 125~250VAC.
Circuitries include SPST, SPDT, DPST, and DPDT.
A variety of color, marking, and termination options are also available. Most rocker switches are available in illuminated and non-illuminated versions.
Also available are variable functions and mounting styles as well as nut and snap-in fittings.
Note: *for listing agencies refer to datasheets on Digi Key website*

Fig. 1

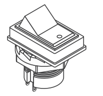

Fig. 2

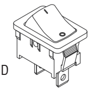

SW648-ND Shown

Fig. 3

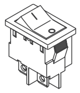

Fig. 4

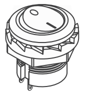

Fig. 5

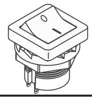

Fig. 6

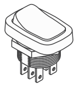

Fig. 7

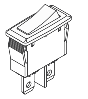

Fig. 8

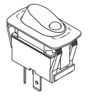

Fig. 9

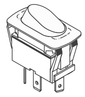

Fig. 10

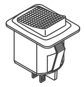

SW655-ND Shown

Fig. 11

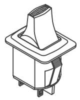

Fig. 12

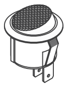

SW661-ND Shown

Fig.	Rocker Color	Fitting	Circuit	Switch Function	Electrical Ratings	Digi-Key Part No.	Price Each 1	10	50	100	CW Industries Part No.
1	Black	Nut	SPST	On-Off	10A 125VAC, 6A 250VAC	SW647-ND	1.24	1.11	.92	.80	GRB049A05BB1
2	Black	Snap-in	SPST	On-Off	16A 125VAC, 10A 250VAC	SW648-ND	1.03	.92	.76	.66	GRB066A02BB2
	Green LED	Snap-in	SPST	On-Off	20A 12VDC	SW649-ND	1.89	1.68	1.40	1.21	GRB066L02BBGGL1
3	Black/Red	Snap-in	DPST	On-Off	8A 125VAC, 4A 250VAC, 10A 125VAC, 6A 250VAC	SW650-ND	2.46	2.19	1.82	1.57	GRB073A202BB
4	Black	Nut	SPST	On-Off	10A 125VAC, 6A 250VAC	SW651-ND	2.05	1.83	1.52	1.32	GRB130A05BB2
5	Black	Nut	SPST	On-Off	10A 125VAC, 6A 250VAC	SW652-ND	2.51	2.24	1.86	1.61	GRB136A05BB2
6	Black	Nut	DPDT	On-On	6A 125VAC, 3A 250VAC	SW653-ND	4.78	4.25	3.54	3.06	GRB213B03BB
7	Black	Snap-in	SPST	Mom-Off	8A 125VAC, 4A 250VAC, 10A 125VAC, 6A 250VAC	SW654-ND	2.94	2.62	2.18	1.89	GRB243F02BB
8	Red LED	Snap-in	SPST	On-Off	16A 125VAC, 10A 277VAC	SW662-ND	4.51	4.01	3.34	2.89	GRB263A101RN1D
9	Black	Snap-in	SPDT	On-On	16A 125VAC, 10A 277VAC	SW663-ND	6.99	6.22	5.18	4.47	GRB263C001NNN
	Black	Snap-in	SPDT	On-Off-On	18A 125VAC, 10A 277VAC	SW664-ND	6.99	6.22	5.18	4.47	GRB263D001NNN
10	Red LED	Snap-in	SPST	On-Off	6A 125VAC, 3A 250VAC	SW655-ND	6.97	6.20	5.16	4.46	GRB290AL105BRR
	Red LED	Snap-in	SPST	On-Off	6A 125VAC, 3A 250VAC	SW658-ND	6.97	6.20	5.16	4.46	GRB290AL405BBR
11	Red LED	Snap-in	SPST	On-Off	6A 125VAC, 3A 250VAC	SW656-ND	6.97	6.20	5.16	4.46	GRB290AL205BRR
	Red LED	Snap-in	SPST	On-Off	6A 125VAC, 3A 250VAC	SW657-ND	6.97	6.20	5.16	4.46	GRB290AL305BBR
12	Black	Snap-in	SPST	On-Off	20A 125VAC, 16A 250VAC	SW659-ND	3.81	3.39	2.82	2.44	GRB293A01BB
	Red LED	Snap-in	SPST	On-Off	20A 125VAC	SW660-ND	3.81	3.39	2.82	2.44	GRB293B01BR
	Black	Snap-in	SPDT	On-On	20A 125VAC, 16A 250VAC	SW661-ND	3.81	3.39	2.82	2.44	GRB293C01BB

E•SWITCH® Miniature Rocker Switches

Specifications: Silver or gold plated copper alloy **Rockers:** Nylon **Bushing:** Brass Nickel Plated **Housing:** Stainless Steel **Operating Temperature:** -30°C ~ 85°C

Dimensions in Inch (mm)

Fig. 1

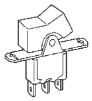

Fig. 2

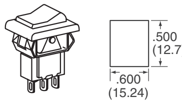

Fig. 3

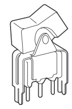

Fig. 4

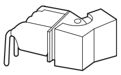

Fig. 5

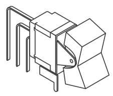

Fig. 6

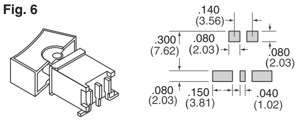

Fig.	Circuit	Actuator Color	Switch Function	Terminal	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	5A	EG4306-ND	3.99	3.57	3.07	300SP1R1BLKM1QE
	SPDT	Black	On-Off-On	Solder Eyelet	5A	EG4307-ND	4.32	3.86	3.33	300SP3R1BLKM1QE
2	SPDT	Black	On-On	Solder Eyelet	5A	EG4310-ND	5.00	4.46	3.85	300SP1R6BLKM1QEBLK
3	SPDT	Black	On-On	PCB	5A	EG4311-ND	3.99	3.57	3.07	300SP1J1BLKM2QE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4313-ND	4.10	3.66	3.15	300SP1J1BLKM6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4314-ND	4.26	3.80	3.28	300SP1J1BLKM7QE
Process Sealed Miniature Rocker Switches										
1	DPDT	Black	On-On	Solder Eyelet	5A	EG4317-ND	5.23	4.67	4.03	300AWDP1R1BLKM1QE
3	SPDT	Black	On-On	PCB	5A	EG4341-ND	4.55	4.06	3.50	300AWSP1J1M2QE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4321-ND	4.80	4.29	3.70	300AWSP1J1BLKM6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4322-ND	4.94	4.41	3.80	300AWSP1J1M7QE
Sub-Miniature Rocker Switches										
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4326-ND	3.89	3.47	2.99	400MSP1R6BLKM6QE
	SPDT	Black	On-On	Right Angle PCB	0.4VA	EG4327-ND†	4.09	3.65	3.15	400MSP1R6BLKM6RE
5	SPDT	Black	On-On	Vertical Right Angle	3A	EG4328-ND	4.02	3.59	3.09	400MSP1R1BLKM7QE
Process Sealed Sub-Miniature Rocker Switches										
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4332-ND	5.92	5.28	4.55	400AWMSP1R1BLKM6QE

Fig.	Circuit	Actuator Color	Switch Function	Terminal	Contact Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 450	E-Switch Part No.
Surface Mount Process Sealed Rocker Switches												
6	SPDT	Black	On-On	SMD	3A	EG4336CT-ND	6.84	5.48	4.93	EG4336TR-ND	1642.50	400BWMSP1R2BLKSM6QE
	SPDT	Black	On-Off-On	SMD	3A	EG4338CT-ND	7.08	5.67	5.10	EG4338TR-ND	1699.20	400BWMSP3R2BLKSM6QE
	SPDT	Black	Mom-Off-Mom	SMD	3A	EG4339CT-ND	7.08	5.67	5.10	EG4339TR-ND	1699.20	400BWMSP4R2BLKSM6QE

† Gold

I

Rocker Switches

RATINGS: • RA Series: 125VAC, 10A • RC Series: 125VAC, 12A • R1966 Series: 125VAC, 15A
Contact Resistance: 100mΩ maximum
Electrical Life: 10,000 Cycle
Terminals: .187 Faston (QC) or Solder Terminals
Approvals: UL, CSA, VDE, NEMKO, SEMKO, FEMKO, DEMKO

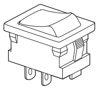

RA/RC - R1966

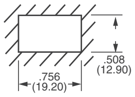

Panel Cutout

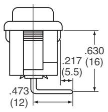

Right Angle PCB

Termination Options

Solder Lug

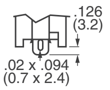

.187 Faston (QC)

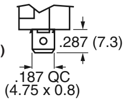

Fig. 1

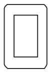

Fig. 2

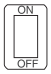

Fig. 3

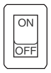

Fig. 4

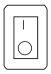

Fig. 5

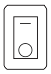

Fig. 6

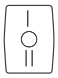

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
RA/RC Series (Black Matte Finish)						
1	SPST, 10A Black Matte No Marking	EG1504-ND	1.75	1.56	1.35	RA1066AFX
	DPST, 12A Black Matte No Marking	EG1507-ND	1.69	1.51	1.30	RC1083BBLKBLKEF
2	SPST, 10A Black Matte with Marking	EG1500-ND	1.75	1.56	1.35	RA1066AFC
3	SPST, 10A Black Matte with Marking	EG1501-ND	1.75	1.56	1.35	RA1066AFF
4	SPST, 10A Black Matte with Marking	EG1502-ND	1.75	1.56	1.35	RA1066AFK
	DPST, 12A Black Matte with Marking	EG1505-ND	1.69	1.51	1.30	RC1083BBLKBLKFF0
5	SPST, 10A Black Matte with Marking	EG1503-ND	1.75	1.56	1.35	RA1066AFH
	DPST, 12A Black Matte with Marking	EG1506-ND	1.69	1.51	1.30	RC1083BBLKBLKGF0
R1966 Series (Black Semi-Gloss Finish)						
1	SPST, 15A, Black No Marking .187 QC Term.	EG1508-ND	1.54	1.38	1.19	R1966ABLKBLKEF
	SPST, 15A, Black No Marking Solder Term.	EG1843-ND	1.54	1.38	1.19	R1966ABLKBLKES
	SPST, 15A, Off-Mom .187 QC Term.	EG1512-ND	2.20	1.97	1.70	R1966FBLKBLKEF
3	SPST, 15A, Black with Marking .187 QC Term.	EG1509-ND	1.54	1.38	1.19	R1966ABLKBLKIF
	SPST, 15A, Black with Marking Solder Term.	EG1844-ND	1.54	1.38	1.19	R1966ABLKBLKIS
4	SPST, 15A, Black with Marking .187 QC Term.	EG1510-ND	1.54	1.38	1.19	R1966ABLKBLKFF
	SPST, 15A, Black with Marking Solder Term.	EG1845-ND	1.54	1.38	1.19	R1966ABLKBLKFS
	SPST, 15A, Lt. Gray with Marking .187 QC Term.	EG2580-ND	1.54	1.38	1.19	R1966AGRYGRYFF
5	SPST, 15A, Black with Marking .187 QC Term.	EG1511-ND	1.54	1.38	1.19	R1966ABLKBLKGF
	SPST, 15A, Black with Marking Solder Term.	EG1846-ND	1.54	1.38	1.19	R1966ABLKBLKGS
6	SPDT, 15A, Black On-Off-On, .187 QC Term.	EG1841-ND	2.56	2.29	1.97	R1966DBLKBLKCF
R1966 Series (Illuminated)						
1	SPST, 15A, Red LED Illumination, .187 QC Term.	EG1514-ND	2.90	2.59	2.24	R1966ABLKBLKEFRED
	SPST, 15A, Green LED Illumination .187 QC Term.	EG1515-ND	2.90	2.59	2.24	R1966ABLKBLKEFGRN
	SPST, 15A, Red LED Illumination Solder Term.	EG1858-ND	2.90	2.59	2.24	R1966ABLKBLKESRED
	SPST, 15A, Green LED Illumination Solder Term.	EG1859-ND	2.90	2.59	2.24	R1966ABLKBLKESGRN
	SPST, 15A, Yellow LED Illumination Solder Term.	EG1860-ND	2.90	2.59	2.24	R1966ABLKBLKESYEL
	SPST, 15A, Black with Led Red, Rt. Angle PCB	EG2577-ND	3.37	3.01	2.60	R1966ABLKBLKERRED
Right Angle PCB Mount						
4	SPST, 15A, Black with Marking, Rt. Angle PCB	EG2579-ND	2.01	1.80	1.55	R1966ABLKBLKFR
5	SPST, 15A, Black with Marking, Rt. Angle PCB	EG2578-ND	2.01	1.80	1.55	R1966ABLKBLKGR

Dimensions in mm

Rocker Switches

RoHS COMPLIANT

Fig.	Circuit	Switch Function	Actuator Description	Terminals	Contact Rating (A)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
						RB1 Series				
1	SPST	On-Off	Black I/O Vert.	.189" QC	20	EG4745-ND	1.20	1.08	.93	RB141D1121
	SPST	On-Off	Illum. Red	.189" QC	20	EG4746-ND	1.40	1.25	1.08	RB141D1000-116
	SPDT	On-On	Black	.189" QC	20	EG4747-ND	1.24	1.11	.95	RB143D1100
	SPDT	On-Off-On	Black	.250" QC	16	EG4748-ND	1.32	1.18	1.02	RB145E1100
						RB2 Series				
2	DPST	On-Off	Black I/O Vert.	.250" QC	20	EG4749-ND	1.70	1.52	1.31	RB242D1121
	DPST	On-Off	Illum. Red	.250" QC	20	EG4750-ND	2.18	1.95	1.68	RB242D1000-116
	DPDT	On-On	Black	.250" QC	20	EG4751-ND	2.03	1.82	1.57	RB24GD1100
	DPDT	On-Off-On	Black	.250" QC	16	EG4752-ND	1.99	1.78	1.54	RB246E1100
						RSC Series				
3	SPST	On-Off	Illum. Red	.250" QC	20	EG4753-ND	1.55	1.39	1.20	RSC141D1000-116
	SPST	On-Off	Black	.250" QC	20	EG4754-ND	.88	.79	.68	RSC141D1100
	SPST	On-Off	Black I/O	.250" QC	20	EG4755-ND	.88	.79	.68	RSC141D1121
	SPST	On-Off	Black/Red Shade	.250" QC	20	EG4756-ND	.89	.80	.69	RSC141D1A00
						WB2 Series				
4	DPST	On-Off	Black	.250" QC	20	EG4757-ND	3.35	2.99	2.58	WB242D1100
	DPST	On-Off	Black I/O	.250" QC	20	EG4758-ND	3.35	2.99	2.58	WB242D1121
	DPDT	On-On	Black	.250" QC	20	EG4759-ND	3.65	3.26	2.81	WB24GD1100
	DPST	Off-Mom	Black	.250" QC	20	EG4760-ND	3.65	3.26	2.81	WB24ED1100
	DPDT	On-Off-On	Black	.250" QC	20	EG4761-ND	4.55	4.06	3.50	WB246D1100
	DPDT	On-Off-On	Black I/O/II Vert.	.250" QC	20	EG4762-ND	4.55	4.06	3.50	WB246D112S
						RE1 Series				
5	SPST	On-Off	Black I/O Vert.	.189" QC	16	EG4763-ND	.72	.64	.55	RE111C1121
	SPST	On-Off	Illum. Red	.189" QC	16	EG4764-ND	1.01	.90	.78	RE111C1000-116
	SPDT	On-On	Black	.189" QC	16	EG4765-ND	.98	.88	.76	RE113C1100
	SPDT	On-Off-On	Black	.189" QC	16	EG4766-ND	1.01	.91	.78	RE115C1100
						RRA Series				
6	DPST	On-Off	Black	.187" QC	15	EG4767-ND	1.15	1.03	.89	RRA12C1100
	DPST	On-Off	Black I/O Vert.	.187" QC	15	EG4768-ND	1.15	1.03	.89	RRA12C1121
	DPST	On-Off	Illum. Red	.187" QC	15	EG4769-ND	1.43	1.28	1.10	RRA12C1000-116
	DPDT	On-On	Black	.187" QC	15	EG4770-ND	1.65	1.47	1.27	RRA1GC1100
	DPDT	On-Off-On	Black	.187" QC	15	EG4771-ND	1.81	1.62	1.40	RRA16C1100
						RR1 Series				
7	SPST	On-Off	Black I/O Vert.	.187" QC	16	EG4772-ND	.72	.64	.55	RR111C1121
	SPST	On-Off	Illum. Red	.187" QC	16	EG4773-ND	1.01	.91	.78	RR111C1000-116
	SPDT	On-On	Black	.187" QC	16	EG4774-ND	.98	.88	.76	RR113C1100
	SPDT	On-Off-On	Black	.187" QC	16	EG4775-ND	1.01	.91	.78	RR115C1100
						RR5 Series				
8	SPST	On-Off	Black	.187" QC	20	EG4776-ND	.84	.75	.65	RR511D1100
	SPST	On-Off	Black I/O Vert.	.187" QC	20	EG4777-ND	.84	.75	.65	RR511D1121
						RR8 Series				
7	DPST	On-Off	Black	.187" QC	16	EG4778-ND	1.10	.98	.85	RR812C1100
	DPST	On-Off	Black I/O Vert.	.187" QC	16	EG4779-ND	1.10	.98	.85	RR812C1121
	DPST	On-Off	Illum. Red	.187" QC	16	EG4780-ND	1.25	1.12	.96	RR812C1000-116
						RVW Series				
9	DPST	On-Off	Black	.250" QC	20	EG4781-ND	4.15	3.70	3.19	RVW42D1100
	DPST	On-Off	Illum. Red	.250" QC	20	EG4782-ND	4.65	4.15	3.58	RVW42D1100-116
	DPST	On-Off	Black ON OFF	.250" QC	20	EG4783-ND	4.15	3.70	3.19	RVW42D1123
	DPDT	On-On	Black Glossy	.250" QC	20	EG4784-ND	4.40	3.93	3.39	RVWG4GD1100
	DPDT	On-On	Black	.250" QC	20	EG4785-ND	4.30	3.84	3.31	RVW4GD1100
	DPST	Off-Mom	Black	.250" QC	20	EG4786-ND	4.30	3.84	3.31	RVW4ED1100
	DPDT	On-Off-On	Black	.250" QC	20	EG4787-ND	4.35	3.88	3.35	RVW46D1100

Fig. 1

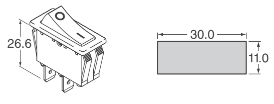

Fig. 2

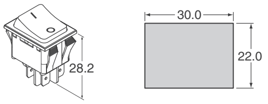

Fig. 3

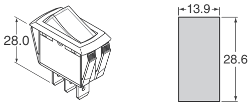

Fig. 4

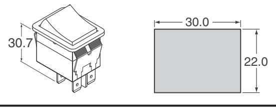

Fig. 5

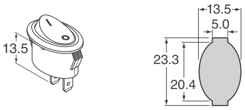

Fig. 6

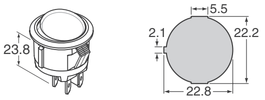

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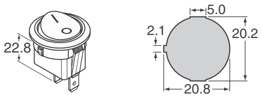

Fig. 8

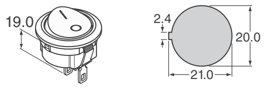

Fig. 9

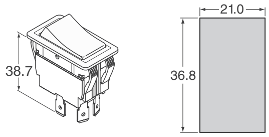

Rocker Switches

RoHS COMPLIANT

Rocker Switches and Paddle Switches for mounting in a round hole instead of a rectangular or square punch. Easy to gang together for panels or consoles. Offered in various switching options with white ink stamping or LED illumination. Red LED-20mA @ 2.0VDC, Green LED-20mA @ 2.4VDC. All switches are black in color.

Dimensions in inch (mm)

Fig. 1

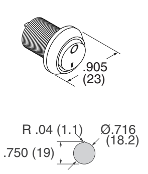

Fig. 2

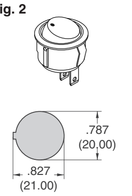

Fig. 3

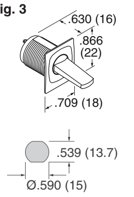

Fig. 4

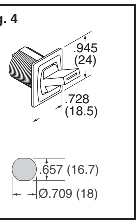

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
		Rocker Switches				
1	SPST (On-Off) 10A with No Marking	EG4564-ND	3.48	3.11	2.68	RR3130ABLKBLKES
	SPST (On-Off) 10A with I/O Marking	EG1889-ND	3.48	3.11	2.68	RR3130ABLKBLKFS
	DPDT (On-On) 10A with I/O Marking	EG1890-ND	5.22	4.66	4.02	RR3130BBLKBLKFS
	SPDT (On-On) 10A with I/O Marking	EG1891-ND	3.87	3.46	2.98	RR3130CBLKBLKFS
2	SPST (On-Off) 10A Snap-In	EG1542-ND	1.61	1.44	1.24	RR3112ABLKBLKNAFO
		Paddle Switches				
3	Mini, SPST (On-Off) 6A	EG1892-ND	3.09	2.76	2.38	RR3402A
	Mini, SPDT (On-On) 6A	EG1893-ND	3.48	3.11	2.68	RR3402C
4	Standard, DPST (On-Off) 10A	EG1895-ND	4.55	4.06	3.50	RR3405A
	Red Illum., SPST (On-Off) 10A	EG1896-ND	6.11	5.46	4.70	RR3405ALRED
	Green Illum., SPST (On-Off) 10A	EG1897-ND	6.11	5.46	4.70	RR3405ALGRN
	Red Illum., SPDT (On-On) 10A	EG1898-ND	6.11	5.46	4.70	RR3405CLRED
	Green Illum., SPDT (On-On) 10A	EG1899-ND	6.11	5.46	4.70	RR3405CLGRN

Rocker Switches

RoHS COMPLIANT

RATINGS: • R5 Series: 20A 125V, 15A 250V for circuits A, B, C 15A 125V, 10A 250V for circuit D • R6 Series: 10A 125V, 6A 250V (UL/CSA) **Contact Resistance:** <20mΩ (initial)

Electrical Life: ≥10,000 Cycle

Approvals: UL, CSA, VDE, NEMKO, SEMKO, FIMKO, DEMKO

Fig. 1

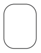

Fig. 2

Fig. 3

Fig. 4

Dimensions in Inches (mm)

R5 Series

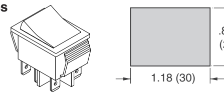

R6 Series

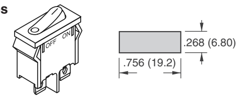

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
		R5 Non-Illuminated				
1	DPST, On-Off, 20A Black	EG1527-ND	2.19	1.96	1.69	R5ABLKBLKEF0
	DPDT, On-On, 20A Black	EG1528-ND	2.73	2.44	2.11	R5CBLKBLKEF0
	DPDT, On-Off-On, 15A Black	EG1539-ND	3.56	3.18	2.74	R5DBLKBLKEF0
2	DPST, On-Off, 20A Black	EG1529-ND	2.19	1.96	1.69	R5ABLKBLKFF0
3	DPDT, On-Off-On, 15A Black	EG1540-ND	3.56	3.18	2.74	R5DBLKBLKCF0
4	DPDT, On-Off-On, 15A Black	EG1541-ND	3.56	3.18	2.74	R5DBLKBLKHF0
		R5 Illuminated				
1	DPST, 125V Red Illum., 20A Black	EG1530-ND	3.56	3.18	2.74	R5BBLKREDEF1
	DPST, 125V Green Illum., 20A Black	EG1533-ND	3.56	3.18	2.74	R5BBLKGRNEF1
2	DPST, 125V Red Illum., 20A Black	EG1531-ND	3.56	3.18	2.74	R5BBLKREDFF1
	DPST, 125V Green Illum., 20A Black	EG1534-ND	3.56	3.18	2.74	R5BBLKGRNFF1
	DPST, 250V Red Illum., 20A Black	EG1535-ND	3.56	3.18	2.74	R5BBLKREDFF2
	DPST, 250V Green Illum., 20A Black	EG1536-ND	3.56	3.18	2.74	R5BBLKGRNFF2
	DPST, 12VDC Red Illum., 20A Black	EG1537-ND	3.56	3.18	2.74	R5BBLKREDFF3
	DPST, 12VDC Green Illum., 20A Black	EG1538-ND	3.56	3.18	2.74	R5BBLKGRNFF3
		R6 Mini-Rocker				
1	SPST 10A, Black Without Marking	EG1525-ND	2.02	1.81	1.56	R6ABLKBLKEF
2	SPST 10A, Black With Marking	EG1526-ND	2.02	1.81	1.56	R6ABLKBLKFF

LUMEX Creating LED and LCD Solutions Together™ SWITCHES CHROMA LED

Illuminated Toggle Switches

Dimensions in mm

Fig. 1

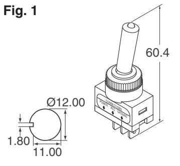

Fig. 2

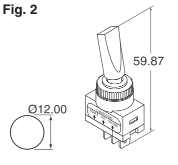

Fig. 3

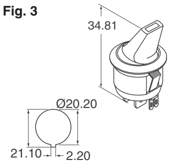

Fig. 4

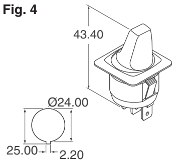

Fig. 5

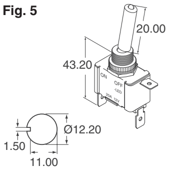

Fig. 6

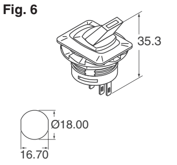

Fig. 7

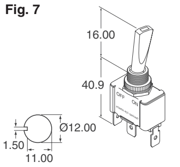

Fig.	Contact Rating	LED Voltage	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	20A/12VDC	12V	Red	SPST	ON/OFF	67-1882-ND◆	3.66	3.05	2.20	CLS-TC11A12253R
2	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1883-ND	3.21	2.68	1.93	CLS-TC11A12252Y
	20A/12VDC	12V	Red	SPST	ON/OFF	67-1884-ND◆	3.21	2.68	1.93	CLS-TC11A12252R
	20A/12VDC	12V	Green	SPST	ON/OFF	67-1885-ND	3.21	2.68	1.93	CLS-TC11A12252G
3	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1886-ND	3.48	2.90	2.09	CLS-TC11A12190Y
4	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1888-ND	4.77	3.98	2.87	CLS-TS11A12250Y
	25A/12VDC	12V	Green	SPST	ON/OFF	67-1890-ND	4.77	3.98	2.87	CLS-TS11A12250G
5	20A/12VDC	12V	Green	SPST	ON/OFF	67-1894-ND	5.61	4.68	3.37	CLS-TC11A12250G
6	10A/125VAC	12V	Red	SPST	ON/OFF	67-1897-ND	3.48	2.90	2.09	CLS-TO11A125S00R
	10A/125VAC	12V	Green	SPST	ON/OFF	67-1898-ND◆	3.48	2.90	2.09	CLS-TO11A125S00G
7	30A/12VDC	12V	Red	SPST	ON/OFF	67-1900-ND	5.34	4.45	3.21	CLS-TC11A12251R

◆ ***RoHS Compliant***

Illuminated Rocker Switches

Dimensions in mm

Fig. 1

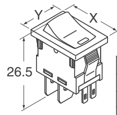

Panel Cutout		
Thickness	X	Y
0.75~1.25	19.200	13.000
1.25~2.00	19.400	13.000
2.00~3.00	19.800	13.000

Fig. 2

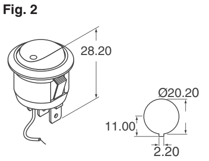

Fig. 3

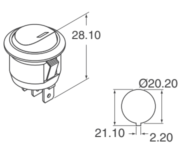

Fig. 4

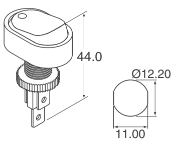

Fig. 5

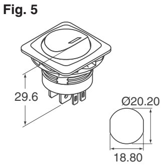

Fig. 6

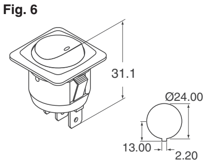

Fig. 7

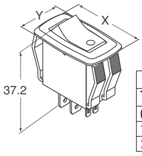

Panel Cutout		
Thickness	X	Y
0.75~1.25	27.600	13.800
1.25~2.00	27.800	13.800
2.00~3.00	28.000	13.800

Fig. 8

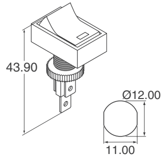

Fig. 9

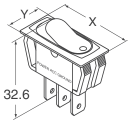

Panel Cutout		
Thickness	X	Y
0.75~1.25	28.500	11.600
1.25~2.00	28.700	11.600
2.00~3.00	29.000	11.600

Fig. 10

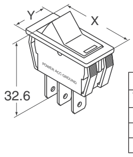

Panel Cutout		
Thickness	X	Y
0.75~1.25	28.500	11.600
1.25~2.00	28.700	11.600
2.00~3.00	29.000	11.600

Fig. 11

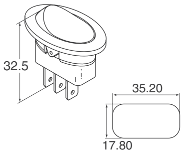

Fig.	Rating	LED Voltage	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	10A/125VAC	12V	Red	SPST	ON/OFF	67-1904-ND◆	3.01	2.67	1.72	CLS-RR11A125500R
2	20A/12VDC	12V	Yellow/Green	SPDT	ON/ON	67-1907-ND	4.89	4.08	2.94	CLS-RC12E12190YG
3	10A/125VAC	12V	Red	SPST	ON/OFF	67-1909-ND	3.03	2.53	1.82	CLS-RC11A125190R
4	30A/12VDC	12V	Red	SPST	ON/OFF	67-1913-ND	3.66	3.05	2.20	CLS-RO11A12250R
	30A/12VDC	12V	Green	SPST	ON/OFF	67-1914-ND	3.66	3.05	2.20	CLS-RO11A12250G
	30A/12VDC	12V	Blue	SPST	ON/OFF	67-1915-ND	6.45	5.38	3.87	CLS-RO11A12250B
5	10A/125VAC/	12V	Red	SPST	ON/OFF	67-1917-ND	3.21	2.68	1.93	CLS-RC11A125191R
6	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1920-ND	4.11	3.43	2.47	CLS-RC11A12250Y
	25A/12VDC	12V	Red	SPST	ON/OFF	67-1921-ND	4.11	3.43	2.47	CLS-RC11A12250R
	25A/12VDC	12V	Green	SPST	ON/OFF	67-1922-ND	4.11	3.43	2.47	CLS-RC11A12250G
	25A/12VDC	12V	Blue	SPST	ON/OFF	67-1923-ND	6.45	5.38	3.87	CLS-RC11A12250B
7	16A/125VAC	12V	Yellow	SPST	ON/OFF	67-1924-ND	3.48	2.90	2.09	CLS-RR11A120250Y
	16A/125VAC	12V	Blue	SPST	ON/OFF	67-1927-ND	6.45	5.38	3.87	CLS-RR11A120250B
8	25A/12VDC	12V	Blue	SPST	ON/OFF	67-1931-ND	6.45	5.38	3.87	CLS-RR11A12250B
9	25A/12VDC	12V	Red	SPST	ON/OFF	67-1933-ND◆	2.24	1.99	1.28	CLS-RR11A12251R
	25A/12VDC	12V	Green	SPST	ON/OFF	67-1934-ND	2.24	1.99	1.28	CLS-RR11A12251G
	25A/12VDC	12V	Blue	SPST	ON/OFF	67-1935-ND	6.45	5.38	3.87	CLS-RR11A12251B
10	20A/12VDC	12V	Red	SPST	ON/OFF	67-1937-ND	2.24	1.99	1.28	CLS-RR11A12252R
11	20A/12VDC	12V	Green	SPST	ON/OFF	67-1942-ND	3.21	2.68	1.93	CLS-RO11A12251G

◆ ***RoHS Compliant***

Illuminated Pushbutton Switches

Dimensions in mm

Fig.	Rating	LED Voltage	Color	Circuit	Action	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	3A/125VAC	12V	Yellow	SPST	ALT/ACT	ON/OFF	67-1944-ND	3.21	2.68	1.93	CLS-PC11A125S01Y
	3A/125VAC	12V	Green	SPST	ALT/ACT	ON/OFF	67-1946-ND	3.21	2.68	1.93	CLS-PC11A125S01G
2	3A/125VAC	12V	Yellow	SPST	MOM	ON/OFF	67-1948-ND◆	3.48	2.90	2.09	CLS-PC11A125S00Y
	3A/125VAC	12V	Blue	SPST	MOM	ON/OFF	67-1951-ND	6.45	5.38	3.87	CLS-PC11A125S00B

◆ ***RoHS Compliant***

Fig. 1

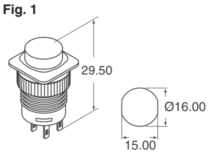

Fig. 2

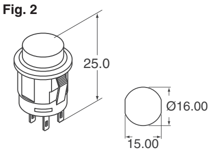

C&K

Pushbutton Switches

RoHS COMPLIANT

Fig.	Circuit	Switching Function	Termi-nation	Bushing	Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
								1	25	100	
Tiny Pushbutton Switches											
1	SPST	Off-Mom	C	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4000-ND	4.82	3.86	3.05	TP11SH9CBE
	SPST	Off-Mom	Z	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4001-ND	4.57	3.66	2.90	TP11SHZQE
	SPST	Off-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN4006-ND	5.18	4.15	3.29	EP11SD1CBE
	SPST	Off-Mom	C	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1716-ND‡	5.45	4.37	3.46	TP11LTCQE
	SPST	Off-Mom	C	LT	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9922-ND ***NEW!***	5.54	4.44	3.52	TP11LTCBE
	SPST	Off-Mom	Z	LT	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9923-ND ***NEW!***	5.38	4.31	3.41	TP11LTZBE
	SPST	Off-Mom	Z	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1717-ND‡	5.29	4.24	3.35	TP11LTZQE
	SPST	Off-Mom	C	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1719-ND	5.11	4.09	3.24	TP11MS9CBE
	SPST	Off-Mom	V3	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1720-ND	5.68	4.55	3.60	TP11MS9V3BE
	SPST	Off-Mom	C	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1723-ND	4.73	3.79	3.00	TP11SH8CQE
	SPST	Off-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1726-ND	5.38	4.31	3.41	TP11SH9V3BE
	SPST	Off-Mom	C	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1728-ND	4.82	3.86	3.05	TP11SHCBE
	SPST	Off-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1729-ND	4.73	3.79	3.00	TP11SHCQE
	SPST	Off-Mom	Z	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1730-ND	4.65	3.72	2.95	TP11SHZBE
	SPDT	On-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4043-ND	6.74	5.40	4.27	EP12SD1CBE
	SPDT	On-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4053-ND	6.24	5.00	3.96	TP12SHZQE
	SPDT	On-Mom	C	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1738-ND	6.51	5.21	4.13	TP12SH9CBE
	SPDT	On-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1739-ND	7.07	5.66	4.49	TP12SH9V3BE
	SPDT	On-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1740-ND	6.41	5.13	4.06	TP12SHCQE
	DPST	Off-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4044-ND	9.86	7.89	6.25	EP21SD1CBE
	DPST	Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4045-ND	10.92	8.74	6.92	EP21SD1ABE
	DPST	Off-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4054-ND	9.79	7.84	6.21	TP21SHZQE
2	SPST	Off-Mom	A	SH8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4002-ND	5.45	4.36	3.45	TP11SH8ABE
	SPST	Off-Mom	A	SH9	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4003-ND	5.45	4.36	3.45	TP11SH9ABE
	SPST	Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4007-ND	5.75	4.60	3.64	EP11SD1ABE
	SPST	Off-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1715-ND‡	6.18	4.95	3.92	TP11LT9ABE
	SPST	Off-Mom	A	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN9921-ND ***NEW!***	6.08	4.87	3.85	TP11LTAQE
	SPST	Off-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1718-ND	5.75	4.60	3.64	TP11MS9ABE
	SPST	Off-Mom	A	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1721-ND	5.36	4.29	3.40	TP11SH8AQE
	SPST	Off-Mom	A	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1727-ND	5.45	4.36	3.45	TP11SHABE
	SPDT	On-Mom	A	SH8	Q	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4004-ND	7.03	5.63	4.46	TP12SH8AQE
	SPDT	On-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4008-ND	7.31	5.85	4.63	EP12SD1ABE
	SPDT	On-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1731-ND‡	7.87	6.30	4.99	TP12LT9ABE
	SPDT	On-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1732-ND	7.44	5.95	4.72	TP12MS9ABE
	SPDT	On-Mom	A	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1733-ND	7.14	5.72	4.53	TP12SH8ABE
	SPDT	On-Mom	A	SH8	G	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1734-ND	7.57	6.06	4.80	TP12SH8AGE
	SPDT	On-Mom	A	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1735-ND	7.14	5.72	4.53	TP12SH9ABE
	SPDT	On-Mom	A	SH9	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1736-ND	7.03	5.63	4.46	TP12SH9AQE
	DPST	Off-Mom	A	SH9	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1741-ND	11.29	9.04	7.15	TP21SH9ABE
3	SPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4009-ND†	6.01	4.81	3.81	EP11SD1AVBE
	SPST	Off-Mom	AV	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1722-ND	5.45	4.36	3.45	TP11SH8AVBE
	SPST	Off-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1725-ND	5.45	4.36	3.45	TP11SH9AVBE
	SPDT	On-Mom	AV	SH8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4005-ND	7.14	5.72	4.53	TP12SH8AVBE
	SPDT	On-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1737-ND	7.14	5.72	4.53	TP12SH9AVBE
	DPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4046-ND	11.32	9.06	7.18	EP21SD1AVBE
Alternate Action and Momentary Pushbutton Switches											
1	SPDT	On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4010-ND	10.43	8.35	6.61	8121SHCGE
	SPDT	On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4011-ND	10.25	8.20	6.50	8121SHZGE
	SPDT	On-Mom	V3	D3	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4012-ND	7.54	6.03	4.78	8125SD3V3BE
	SPDT	On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4022-ND	6.75	5.40	4.28	8125SHZBE
	SPDT	On-Mom	C	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4029-ND	6.93	5.55	4.39	8125SHCBE
	SPDT	On-Mom	C	D1	G	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN4041-ND	10.66	8.53	6.75	E121SD1CGE
	SPDT	On-Mom	AV3	D1	G	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN9953-ND ***NEW!***	11.52	9.22	7.30	E121MD1AV3GE
	SPDT	On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1611-ND	10.25	8.20	6.50	8121LY4ZGE
	SPDT	On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1612-ND	11.03	8.83	6.99	8121MD3V3GE
	SPDT	On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1613-ND	11.03	8.83	6.99	8121SD3V3GE
	SPDT	On-Mom	V3	D8	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1614-ND	11.03	8.83	6.99	8121SD8V3GE
	SPDT	On-Mom	V3	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1619-ND	11.03	8.83	6.99	8121SD9V3GE
	SPDT	On-Mom	V3	H9	B	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN10188-ND ***NEW!***	7.77	6.22	4.93	8168SH9V3BE2
	SPDT	On-Mom	C	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1622-ND	10.43	8.35	6.61	8121SDCGE
	SPDT	On-Mom	Z	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1623-ND	10.25	8.20	6.50	8121SDZGE
	SPDT	On-Mom	Z3	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1626-ND	10.57	8.46	6.70	8121SHZ3GE
	SPDT	On-Mom	W4	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN10087-ND ***NEW!***	10.96	8.77	6.95	8121SYW4GE
	SPDT	On-Mom	Z	Y4	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1627-ND	10.25	8.20	6.50	8121SY4ZGE
	SPDT	On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1628-ND	10.25	8.20	6.50	8121SYZGE
	SPDT	On-Mom	V3	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1631-ND	7.54	6.03	4.78	8125SD9V3BE
	SPDT	On-Mom	C	D	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1632-ND	6.93	5.55	4.39	8125SDCBE
	SPDT	On-Mom	Z	Y	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1633-ND	6.75	5.40	4.28	8125SYZBE
	SPDT	On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN9935-ND★ ***NEW!***	10.25	8.20	6.50	U811SYZGE
	SPDT	On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1642-ND★	10.43	8.35	6.61	U811SHCGE
	SPDT	On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1643-ND★	10.25	8.20	6.50	U811SHZGE
	DPDT	On-Mom	C	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN9814-ND ***NEW!***	16.11	12.89	10.21	8221SD9CGE
	DPDT	On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4023-ND	15.82	12.66	10.02	8221SHZGE
	DPDT	On-Mom	Z	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4024-ND	9.50	7.60	6.02	8225SHZBE
	DPDT	On-Mom	C	D1	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN4042-ND	17.13	13.71	10.85	E221SD1CGE
	DPDT	On-Mom	V8	D3	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN9936-ND★ ***NEW!***	18.14	14.52	11.49	U821SD3V8GE
	DPDT	On-Mom	V3	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1635-ND	12.75	11.02	9.28	8221SD9V3GE
	DPDT	On-Mom	C	D	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1636-ND	16.11	12.89	10.21	8221SDCGE
	DPDT	On-Mom	C	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1637-ND	16.11	12.89	10.21	8221SHCGE
	DPDT	On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1644-ND★	15.82	12.66	10.02	U821SHZGE
	DPDT	On-On	Z	Y3	Q	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN9816-ND ***NEW!***	12.25	9.80	7.76	8261SY3ZQE2
	3PDT	On-Mom	Z	H	G	.500 x .650 x .475 (12.70 x 16.51 x 12.07)	CKN1639-ND	17.05	14.73	12.40	8321SHZGE
	3PDT	On-Mom	V8	Y9	G	.500 x .650 x .475 (12.70 x 16.51 x 12.07)	CKN9817-ND ***NEW!***	26.43	21.15	16.74	8321SY9V8GE
	4PDT	On-Mom	Z	H	G	.500 x .850 x .475 (12.70 x 21.59 x 12.07)	CKN1640-ND	21.55	18.62	15.68	8421SHZGE
2	SPDT	On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4013-ND	11.11	8.89	7.04	8121SD9AGE
	SPDT	On-Mom	A	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4014-ND	7.61	6.09	4.82	8125SD9ABE
	SPDT	On-Mom	A2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1615-ND	11.32	9.06	7.18	8121SD9A2GE
	SPDT	On-Mom	A4	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1616-ND	11.32	9.06	7.18	8121SD9A4GE
	SPDT	On-Mom	A2	H9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN10186-ND ***NEW!***	11.32	9.06	7.18	8121SH9A2GE
	SPDT	On-Mom	R2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1617-ND	11.70	9.36	7.41	8121SD9R2GE
	SPDT	On-Mom	R	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1618-ND	11.68	9.35	7.40	8121SD9RGE
	SPDT	On-Mom	A	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1621-ND	11.11	8.89	7.04	8121SDAGE
	SPDT	On-Mom	A	H9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1624-ND	11.11	8.89	7.04	8121SH9AGE
	SPDT	On-Mom	A	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1629-ND	7.61	6.09	4.82	8125SD8ABE

Contact Materials Options

B: **Contacts and Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum

Q: **Contacts:** Coin silver, silver plated **Terminals:** Copper alloy, silver plated **Rating:** 1A @ 120VAC; *8060 Series* — 6A @ 120VAC or 3A @ 250VAC; *8500 Series* — 1A @ 120VAC.

G: **Contacts:** Coin silver, with gold plate over nickel plate **Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum or 1A @ 120VAC or 28VDC.

P: **Contacts:** Gold, matte-tin **Terminals:** Copper alloy, with matte tin over nickel plate **Ratings:** 0.4VA maximum @ 20VAC or DC maximum

Fig. 1

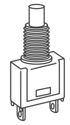

Fig. 2

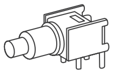

Fig. 3

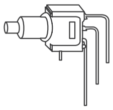

Fig. 4

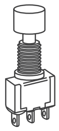

Comes standard with black cap

Fig. 5

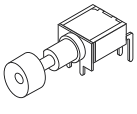

Fig. 6

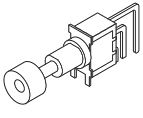

Fig. 7

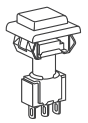

Fig. 8

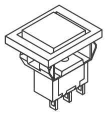

Fig. 9

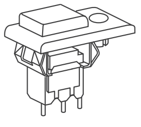

Fig. 10

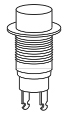

Fig. 11

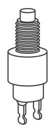

Fig. 12

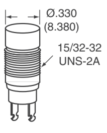

* Red LED ‡ .120 Diameter Plunger ★ UL Approved

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

C&K Pushbutton Switches *(Cont.)*

Fig.	Circuit	Switching Function	Termi-nation	Bushing	Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
2	DPDT	On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1641-ND★	11.11	8.89	7.04	U811SD9AGE
	DPDT	On-Mom	A	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1634-ND	12.75	11.02	9.28	8221SD9AGE
3	SPDT	On-Mom	AV2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4015-ND	11.32	9.06	7.18	8121SD9AV2GE
	SPDT	On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4030-ND	7.82	6.26	4.96	8125SD9AV2BE
	SPDT	On-Mom	AV2	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1625-ND	11.32	9.06	7.18	8121SHAV2GE
	SPDT	On-Mom	AV2	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1630-ND	7.82	6.26	4.96	8125SD8AV2BE
	SPDT	On-Mom	AV2	H	B	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN9812-ND ***NEW!***	7.77	6.22	4.93	8168SHAV2BE2
	DPDT	On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1638-ND	11.82	9.46	7.49	8225SD9AV2BE
4	SPDT	On-On	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4016-ND	6.73	5.39	4.27	8161SHZQE2
	SPDT	On-Mom	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4018-ND	6.73	5.39	4.27	8168LHZQE2
	SPDT	On-Mom	Z	H	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4031-ND	7.28	5.83	4.61	8168SHZGE2
	SPDT	On-On	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1647-ND	7.28	5.83	4.61	8161SHZGE2
	SPDT	On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1649-ND	6.79	5.43	4.30	8168LHZBE2
	SPDT	On-Mom	Z	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1655-ND	6.73	5.39	4.27	8168SHZQE2
	DPDT	On-On	Z	H	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4032-ND	14.06	11.25	8.91	8261SHZGE2
	DPDT	On-On	Z	H	Q	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN1656-ND	12.25	9.80	7.76	8261SHZQE2
5	SPDT	On-On	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1646-ND	7.57	6.06	4.80	8161SH9ABE2
	SPDT	On-Mom	C	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN10189-ND ***NEW!***	6.90	5.52	4.37	8168SHCQE2
	SPDT	On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1648-ND	7.57	6.06	4.80	8168LH9ABE2
	SPDT	On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1650-ND	7.57	6.06	4.80	8168SH9ABE2
	SPDT	On-Mom	A	H9	B	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN9811-ND ***NEW!***	7.57	6.06	4.80	8168SH9ABE1
	SPDT	On-Mom	A	H9	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1651-ND	7.52	6.02	4.77	8168SH9AQE2
	SPDT	On-Mom	A	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1653-ND	7.57	6.06	4.80	8168SHABE2
	SPDT	On-Mom	A	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1654-ND	7.52	6.02	4.77	8168SHAQE2
6	SPDT	On-Mom	AV2	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1652-ND	7.77	6.22	4.93	8168SH9AV2BE2
Process Sealed Momentary Pushbutton Switches											
1	SPST	Mom	C	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1702-ND	5.12	4.10	3.25	EP11SD1CQE
	SPST	Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1703-ND	5.75	4.60	3.64	EP11SD1V3BE
	SPST	Off-Mom	V31	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9863-ND ***NEW!***	5.75	4.60	3.64	EP11FPD1V31BE
	SPST	Mom	W	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1704-ND	5.51	4.41	3.50	EP11SD1WBE
	SPDT	On-Mom	C	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1684-ND	7.55	6.05	4.79	E112SD1CBE
	SPDT	On-Mom	C	D1	Q	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1685-ND	7.55	6.05	4.79	E112SD1CQE
	SPDT	On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1686-ND	8.87	7.10	5.63	E112SD1V3BE
	SPDT	On-Mom	Z	Y	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1687-ND	7.42	5.94	4.70	E112SYZBE
	SPDT	On-Mom	C	Y	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN9853-ND ***NEW!***	7.55	6.05	4.79	E112LYCBE
	SPDT	On-Mom	V3	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1690-ND	12.01	9.61	7.61	E121SD1V3GE
	SPDT	On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1693-ND	8.75	7.01	5.55	E125SD1V3BE
	SPDT	On-Mom	V6	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN9854-ND ***NEW!***	8.75	7.01	5.55	E125SD1V6BE
	SPDT	On-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1708-ND	6.74	5.40	4.27	EP12FPD1CBE
	SPDT	On-Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1712-ND	7.31	5.85	4.63	EP12SD1V3BE
	DPST	Off-Mom	V3	D1	Q	.320 x .360 x .350 (8.13 x 9.14 x 8.89)	CKN9865-ND ***NEW!***	9.83	7.86	6.23	EP21SD1CQE
	DPST	Off-Mom	V3	D1	B	.320 x .360 x .350 (8.13 x 9.14 x 8.89)	CKN9866-ND ***NEW!***	10.92	8.74	6.92	EP21SD1V3BE
	DPDT	On-Mom	C	D1	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN9862-ND ***NEW!***	10.31	8.25	6.54	E225SD1CBE
2	SPST	Mom	A	D1	P	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9129-ND	6.11	4.89	3.88	EP11FPD1APE
	SPST	Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1698-ND	6.21	4.97	3.94	EP11SD1AGE
	SPST	Mom	A	D1	P	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9134-ND	6.11	4.89	3.88	EP11SD1APE
	SPST	Mom	A	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1700-ND	5.69	4.55	3.61	EP11SD1AQE
	SPST	Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1695-ND	5.75	4.60	3.64	EP11FPD1ABE
	SPDT	On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1682-ND	8.20	6.56	5.20	E112SD1ABE
	SPDT	On-Mom	A	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1688-ND	11.31	9.06	7.17	E121SD1AGE
	SPDT	On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1691-ND	8.06	6.45	5.11	E125SD1ABE
	SPDT	On-Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1705-ND	7.31	5.85	4.63	EP12FPD1ABE
	SPDT	On-Mom	A	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9864-ND ***NEW!***	7.23	5.79	4.58	EP12FPD1AQE
	SPDT	On-Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1709-ND	7.77	6.22	4.93	EP12SD1AGE
3	SPST	Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1697-ND	6.01	4.81	3.81	EP11FPD1AVBE
	SPST	Mom	AV	D1	B	.320 x .200 x.350 (8.13 x 5.08 x 8.89)	CKN9464-ND	6.41	5.13	4.06	EP11RD1AVBE
	SPST	Mom	AV	D1	P	.320 x .245 x .350 (8.13 x 6.22 x 8.89)	CKN9128-ND	6.38	5.10	4.04	EP11SD1AVPE
	SPDT	On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1683-ND	8.40	6.72	5.32	E112SD1AV2BE
	SPDT	On-Mom	AV2	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1689-ND	11.52	9.22	7.30	E121SD1AV2GE
	SPDT	On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1692-ND	8.27	6.62	5.24	E125SD1AV2BE
	SPDT	On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1707-ND	7.57	6.06	4.80	EP12FPD1AVBE
	SPDT	On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1711-ND	7.57	6.06	4.80	EP12SD1AVBE
	DPDT	On-Mom	AV2	D1	G	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	CKN1694-ND	13.47	11.64	9.80	E221SD1AV2GE
Female Connector for Z3 Terminals							CKN1645-ND	.51	.41	.33	530100000
Snap-In With Black Frame											
7	SPST	Off-Mom	Z	Wht Cap	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1609-ND	6.08	4.86	3.85	TP11J81ZBE12
	SPST	Off-Mom	Z	Blk Cap	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1610-ND	5.98	4.79	3.79	TP11J81ZQE22
	SPDT	Off-Mom	X	—	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1657-ND	6.66	5.33	4.22	8531J81ZQE22
	SPDT	On-Mom	Z	Wht Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1597-ND*	11.68	9.35	7.40	8121J81ZGE12
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4025-ND	11.68	9.35	7.40	8121J81ZGE22
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1599-ND	11.68	9.35	7.40	8121J83ZGE22
	SPDT	On-Mom	Z3	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1601-ND	8.50	6.80	5.39	8125J81Z3BE22
	SPDT	On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4026-ND	8.18	6.55	5.18	8125J81ZBE22
	SPDT	On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1603-ND	8.18	6.55	5.18	8125J83ZBE22
	SPDT	On-On	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4033-ND	9.08	7.27	5.76	8161J81ZGE22
	SPDT	On-On	Z	Blk Cap	Q	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1604-ND	8.54	6.84	5.41	8161J81ZQE22
	SPDT	On-Mom	Z	Blk Cap	B	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1607-ND	8.59	6.88	5.45	8168J81ZBE22
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4034-ND	9.08	7.27	5.76	8168J81ZGE22
	SPDT	On-Mom	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4017-ND	8.54	6.84	5.41	8168J81ZQE22
	DPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4027-ND	17.25	13.80	10.93	8221J81ZGE22
	DPDT	On-Mom	Z	Red Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN9813-ND ***NEW!***	17.25	13.80	10.93	8221J81ZGE32
	DPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1608-ND	12.65	10.93	9.20	8221J83ZGE22
	DPDT	On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4028-ND	10.93	8.75	6.93	8225J81ZBE22
	DPDT	On-On	Z	Blk Cap	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4035-ND	15.87	12.70	10.06	8261J81ZGE22
8	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1600-ND*	11.71	10.11	8.52	8121J85ZGE223
	SPDT	On-On	Z	Blk Cap	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1605-ND*	12.73	10.19	8.07	8161J86ZGE223
	SPDT	On-On	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1606-ND*	12.19	9.75	7.72	8161J86ZQE223
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN10187-ND ***NEW!***	12.73	10.19	8.07	8168J86ZGE223
9	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1598-ND	11.89	9.52	7.54	8121J82ZGE22
	SPDT	On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1602-ND	8.39	6.72	5.32	8125J82ZBE22
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN10184-ND ***NEW!***	11.89	9.52	7.54	8121J84ZGE22
	SPDT	On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN10185-ND ***NEW!***	15.96	12.78	10.11	8121J85ZGE226
	DPDT	On-On	Z	Blk Cap	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN9815-ND ***NEW!***	15.87	12.70	10.06	8261J82ZGE22
Subminiature Pushbutton Switches											
10	SPST	Off-Mom	X	Blk Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1121-ND	5.99	4.80	3.80	8532T1ZQE2
	SPST	Off-Mom	X	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1122-ND	6.02	4.82	3.82	8532T1ZBE2

Termination Options

A, A2
A4 (reversed term.)

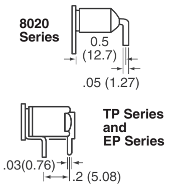

AV **EP Series**

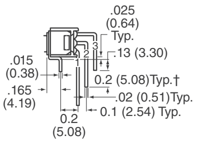

† Middle terminal missing on CKN4009-ND

AV2, AV3

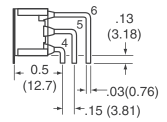

C **8020 Series**

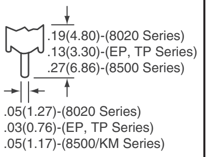

.19(4.80)-(8020 Series)
.13(3.30)-(EP, TP Series)
.27(6.86)-(8500 Series)
.05(1.27)-(8020 Series)
.03(0.76)-(EP, TP Series)
.05(1.17)-(8500/KM Series)

R
R2 (reversed term.)

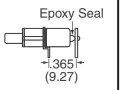

V3, V31

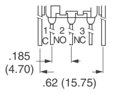

V6, V8 ***NEW!***

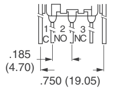

W

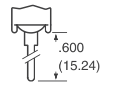

W4 ***NEW!***

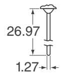

X

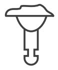

Solder Lug

Z

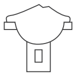

Solder Eyelet

Z3

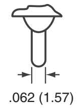

05

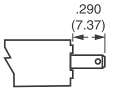

Bushing Options

Threaded bushings include hardware

D

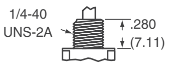

D1 (Unthreaded)

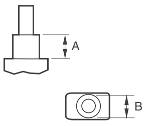

Series	Dimensions – Inch (mm) A	B
E	.250 (6.35)	.255 (6.48)
EP	.177 (4.50)	.18 (4.57)

D3 (Unthreaded)

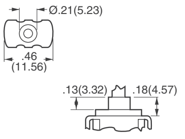

D8 (Unthreaded)

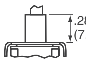

D9 (Unthreaded, flat)

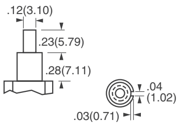

LT
LT9 (Unthreaded)

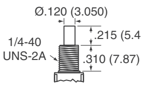

* Red LED ‡ .120 Diameter Plunger ★ UL Approved

(Continued)

Pushbutton Switches *(Cont.)*

Fig.	Circuit	Switching Function	Termi-nation	Bushing	Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
								1	25	100	
10	SPST	Off-Mom	X	Red Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1123-ND	6.49	5.20	4.12	8532T1ZQE3
	SPST	Off-Mom	X	Red Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1124-ND	6.52	5.22	4.13	8532T1ZBE3
	SPST	Off-Mom	X	Wht Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1222-ND	6.03	4.83	3.82	8532T1ZQE1
	SPST	Off-Mom	X	Wht Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1223-ND	6.05	4.85	3.84	8532T1ZBE1
	SPST	Off-Mom	C	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1666-ND	6.18	4.95	3.92	8532T1CBE2
11	SPST	Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4036-ND	5.16	4.14	3.27	8531MCQE2
	SPST	On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4037-ND	5.76	4.61	3.65	8533MCQE2
	SPST	On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1389-ND	5.60	4.48	3.55	8533MZQE2
	SPST	On-Mom	C	H	B	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1390-ND	5.62	4.50	3.56	8533MZBE2
	SPST	On-Mom	X	S	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN10190-ND ***NEW!***	5.60	4.48	3.55	8533SZQE2
	SPST	Off-Mom	X	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4038-ND	6.03	4.83	3.82	8631ZQD2
	SPST	Off-Mom	X	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4039-ND	6.05	4.84	3.83	8631ZBD2
	SPST	Off-Mom	C	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4040-ND	6.21	4.97	3.94	8631CBD2
	SPST	Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4019-ND	5.16	4.14	3.27	8531SCQE2
	SPST	Off-Mom	X	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4020-ND	5.00	4.00	3.17	8531MZQE2
	SPST	Off-Mom	X	H	Q	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN4021-ND	5.00	4.00	3.17	8532MZQE2
	SPST	Off-Mom	05	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4057-ND	4.10	3.28	2.60	KM1101RR05B
	SPST	Off-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4058-ND	3.39	2.71	2.15	KM1101RR05Q
	SPST	Off-Mom	C	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4059-ND	4.10	3.28	2.60	KM1101RR02B
	SPST	Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4060-ND	3.39	2.71	2.15	KM1101RR02Q
	SPST	Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN1714-ND	3.98	3.19	2.53	KM1101RR02QE
	SPST	On-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4064-ND	3.39	2.71	2.15	KM3301RR05Q
	SPST	Off-Mom	X	S	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1658-ND	5.00	4.00	3.17	8531SZQE2
	SPST	Off-Mom	X	S	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN9818-ND ***NEW!***	5.50	4.40	3.49	8531SZQE3
	SPST	Off-Mom	C	M	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1662-ND	5.16	4.14	3.27	8532MCQE2
	SPST	Off-Mom	X	M	B	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1663-ND	5.02	4.02	3.18	8532MZBE2
	SPST	Off-Mom	X	M	G	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1664-ND	5.53	4.43	3.50	8532MZGE2
	SPST	Off-Mom	X	S	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1665-ND	5.00	4.00	3.17	8532SZQE2
	SPST	On-Mom	C	S	G	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN9820-ND ***NEW!***	6.29	5.04	3.99	8534SCGE2
	SPST	Off-Mom	X	M	Q	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN10193-ND ***NEW!***	5.00	4.00	3.17	8552MZQE2
	SPST	On Mom	C	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1669-ND	5.76	4.61	3.65	8534MCQE2
	SPST	On Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1670-ND	5.60	4.48	3.55	8534MZQE2
	SPST	Off-Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1672-ND	5.00	4.00	3.17	8551MZQE2
	SPST	Off-Mom	C	8-40 uns	G	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1675-ND	6.72	5.38	4.26	8631CGD2
	SPST	Off-Mom	C	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1676-ND	6.19	4.96	3.93	8631CQD2
	SPST	Off-Mom	C	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1677-ND	6.21	4.97	3.94	8632CBD2
	SPST	Off-Mom	C	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1678-ND	6.19	4.96	3.93	8632CQD2
	SPST	Off-Mom	X	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1679-ND	6.05	4.84	3.83	8632ZBD2
	SPST	Off-Mom	X	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1680-ND	6.03	4.83	3.82	8632ZQD2
	SPST	Off-Mom	X	8-40 uns	Q	.248 x .080 Dia. (6.30 x 2.03 Dia.)	CKN10194-ND ***NEW!***	6.55	5.25	4.15	8632ZGD2
	SPST	On-Mom	X	8-40 uns	Q	.345 x .250 Dia. (8.76 x 6.35 Dia.)	CKN1681-ND	6.59	5.28	4.18	8633ZQE2
12	SPST	Off-Mom	C	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1659-ND	6.16	4.93	3.91	8531TCQE2
	SPST	Off-Mom	X	T	B	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1660-ND	6.02	4.82	3.82	8531TZBE2
	SPST	Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1661-ND	5.99	4.80	3.80	8531TZQE2
	SPST	Off-Mom	C	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1667-ND	6.16	4.93	3.91	8532TCQE2
	SPST	Off-Mom	C	T	B	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN9819-ND ***NEW!***	6.18	4.95	3.92	8532TCBE2
	SPST	On-Mom	C	T	Q	.427 x .375 dia. (10.85 x 9.53 Dia.)	CKN10191-ND ***NEW!***	6.76	5.41	4.28	8533TCQE2
	SPST	On-Mom	X	T	Q	.427 x .375 dia. (10.85 x 9.53 Dia.)	CKN10192-ND ***NEW!***	6.59	5.28	4.18	8533TZQE2
	SPST	Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1668-ND	5.99	4.80	3.80	8532TZQE2
	SPST	On Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1671-ND	6.59	5.28	4.18	8534TZQE2
	SPST	Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1673-ND	5.99	4.80	3.80	8551TZQE2
	SPST	Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1674-ND	5.99	4.80	3.80	8552TZQE2
NEW! Overtravel Pushbutton Switches NEW!											
11	SPST	Off-Mom	X	5/16-32	B	1.041 x .375 dia. (26.44 x 9.53 Dia.)	CKN10195-ND	7.26	5.81	4.60	8731SHZBE
	SPST	Off-Mom	X	5/16-32	Q	1.041 x .375 dia. (26.44 x 9.53 Dia.)	CKN10196-ND	6.68	5.35	4.24	8731SHZQE
	SPST	Off-Mom	X	5/16-32	B	.790 x .375 dia. (20.08 x 9.53 Dia.)	CKN10197-ND	7.26	5.81	4.60	8732S1HZBE
	SPST	Off-Mom	X	5/16-32	Q	.790 x .375 dia. (20.08 x 9.53 Dia.)	CKN10198-ND	6.62	5.30	4.20	8732S1HZQE

Bushing Options *(Cont.)*

Threaded bushings include hardware

H 1/4-40 NS
H9 (Unthreaded)
SH 10-48UNS-2A

SH8 (Unthreaded .1870)
SH9 (Unthreaded Flat)

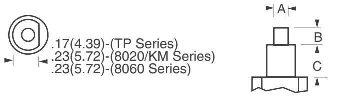

Bushing Option	ITT Ind. Series	Dimensions – Inch (mm)		
		A	B	C
H, H9	TP	.100 (2.54)	.139 (3.53)	.220 (5.59)
H, H9	8020	.122 (3.10)	.218 (5.54)	.250 (6.35)
H, H9	8060	.122 (3.10)	.280 (7.11)	.300 (7.62)
SH, SH9	TP	.100 (2.54)	.155 (3.94)	.220 (5.59)

M

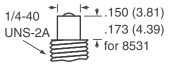

MS9

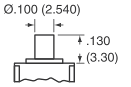

S

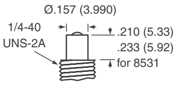

T

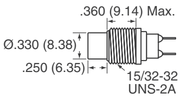

Y, Y9

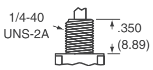

Y3 ***NEW!***

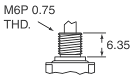

Y4

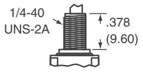

* Red LED ‡ .120 Diameter Plunger ★ UL Approved

KM, GP, EP and FP Series

Contact Materials

B Contacts & Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q Contacts: Coin silver, silver plated. Terminals: Copper alloy, silver plated. Rating: 1A @ 120VAC

Fig.	Circuit	Switching Function	Termination	Contact Material	Dimensions Inch (mm) L x W x D	Digi-Key Part No.	Price Each			C&K Part No.
							1	25	100	
Subminiature Pushbutton Switches										
1	SPDT	Off-Mom	PCB	B	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4062-ND	5.63	4.51	3.57	KM1202A08BE
	SPDT	Off-Mom	PCB	Q	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4061-ND	4.23	3.39	2.69	KM1202A08QE

Fig.	Circuit	Switching Function	Actuator Height Inch (mm)	Terminals	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		C&K Part No.
						1	25	100		Qty.	Pricing	
Ultra-Miniature Pushbutton Switches (Washable)												
2	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9056-ND†	6.71	5.38	4.26	—	—	—	GP11MCBE
	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9055-ND†	7.62	6.10	4.83	—	—	—	GP11MABE
	SPDT	On-Mom	.078 (1.98)	PC Mount	CKN9060-ND†	7.37	5.90	4.67	—	—	—	GP12MCBE
3	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9062CT-ND	7.81	6.74	5.41	CKN9062TR-ND	600	2596.32	GP12MSCBE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9058CT-ND	8.04	6.93	5.57	CKN9058TR-ND	600	2670.84	GP11MSABE
	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9061CT-ND	8.71	7.51	6.03	CKN9061TR-ND	600	2893.32	GP12MSABE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9057CT-ND	9.56	8.25	6.63	CKN9057TR-ND	600	3178.44	GP11MSA1BE
4	SPST	Off-Mom	.058 (1.47)	Gull Lead	CKN9059CT-ND	10.05	8.66	6.96	CKN9059TR-ND	600	3338.28	GP11MSV1BE
	SPDT	On-Mom	.058 (1.47)	Gull Lead	CKN9063CT-ND	10.64	9.17	7.37	CKN9063TR-ND	600	3537.00	GP12MSV1BE
Surface Mount (Process Sealed, Washable)												
5	SPST	Off-Mom	.215 (5.46)	Gull Lead	CKN9052CT-ND	6.44	5.55	4.46	CKN9052TR-ND	600	2140.56	EP11SD1SAPE(T&R)
	SPDT	On-Mom	.215 (5.46)	Gull Lead	CKN9054CT-ND	7.92	6.83	5.49	CKN9054TR-ND	600	2631.96	EP12SD1SAPE(T&R)
	SPST	Off-Mom	Flush	Gull Lead	CKN9051CT-ND	6.44	5.55	4.46	CKN9051TR-ND	600	2140.56	EP11FPD1SAPE(T&R)
	SPDT	On-Mom	Flush	Gull Lead	CKN9053CT-ND	7.92	6.83	5.49	CKN9053TR-ND	600	2631.96	EP12FPD1SAPE
6	SPST	Off-Mom	.215 (5.46)	Gull Lead	CKN9465CT-ND	6.10	5.63	5.16	CKN9465TR-ND	500	1688.40	EP11SD1SA1BE
	SPDT	On-Mom	.215 (5.46)	Gull Lead	CKN9466CT-ND	7.58	7.00	6.42	CKN9466TR-ND	500	2097.90	EP12SD1SA1BE
NEW! Sealed Ultra Miniature Pushbutton Switches NEW!												
7	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10292-ND†	4.47	3.58	2.84	—	—	—	FP11SPC1B1TP00
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10293-ND†	4.78	3.83	3.03	—	—	—	FP11SPC1B1TP01
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10294-ND†	4.78	3.83	3.03	—	—	—	FP11SPC1B1TP02
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10295-ND†	4.78	3.83	3.03	—	—	—	FP11SPC1B1TP03
8	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10296-ND†	5.42	4.34	3.44	—	—	—	FP11SPA1B1TP00
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10297-ND†	5.81	4.65	3.68	—	—	—	FP11SPA1B1TP01
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10298-ND†	5.81	4.65	3.68	—	—	—	FP11SPA1B1TP02
	SPST	Off-Mom	.129 (3.3)	PC Mount	CKN10299-ND†	5.81	4.65	3.68	—	—	—	FP11SPA1B1TP03

† Bulk

Fig. 1

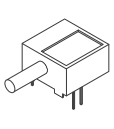

Fig. 2

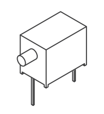

Fig. 3

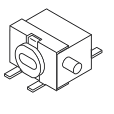

Fig. 4

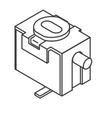

Fig. 5

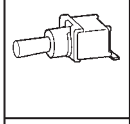

Fig. 6

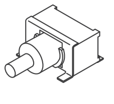

Fig. 7 ***NEW!***

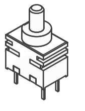

Fig. 8 ***NEW!***

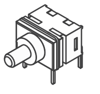

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

C&K Pushbutton Switches *(Cont.)*

Pushbutton Switch Accessories

Fig. 1 — Series 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L

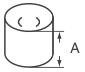

Fig. 2 — Series EP, TP, FP

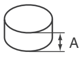

Fig. 3 — Series 8020, 8060, E010, E020, KM11, L, TP

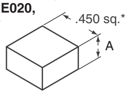

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Fig. 1 — Pushbutton Caps for 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L								
White Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1103-ND	.82	.66	.53	752701000
Black Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1104-ND	.51	.41	.33	752702000
Red Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1105-ND	.77	.62	.50	752703000
Green Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1108-ND	.59	.48	.38	752706000
Blue Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1109-ND	.58	.47	.37	752707000
White Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1397-ND	1.03	.83	.66	801801000
Black Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1398-ND	.48	.39	.31	801802000
Red Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1399-ND	1.09	.88	.69	801803000
White Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1394-ND	.82	.66	.52	708901000
Black Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1395-ND	.48	.39	.31	708902000
Red Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1396-ND	.82	.66	.52	708903000
Fig. 2 — Pushbutton Caps EP, TP Series								
White Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1112-ND	.96	.77	.61	465801000
Black Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1113-ND	.55	.44	.35	465802000
Red Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1114-ND	.90	.72	.57	465803000
Yellow Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1116-ND	1.19	.96	.76	465805000
Green Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1117-ND	1.18	.95	.75	465806000
Blue Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1118-ND ✔	.84	.68	.54	465807000
Black Gloss	.310 (7.87)	.153 (3.89)	.100 (2.54)	CKN9667-NDΔ ✔	.62	.50	.40	585A02000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1748-ND	1.02	.82	.65	508102000
Red Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1749-ND	1.02	.82	.65	508103000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN10085-NDΔ ✔	.88	.71	.56	785A02000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1751-ND*	1.10	.88	.70	538702000
Red Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN10086-NDΔ ✔	.88	.71	.56	785A03000
Pushbutton Caps for Snap-Fitting Actuators								
White Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1209-ND	3.01	2.41	1.91	894101000
Black Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1210-ND	1.03	.83	.66	894102000
Red Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1211-ND	2.86	2.29	1.81	894103000
NEW! Fig. 2 — Pushbutton Caps for FP Series NEW!								
White	.157 (4.00)	0.09 (2.40)	0.078 (2.0)	CKN10300-ND	.54	.43	.35	798D01000
Black	.157 (4.00)	0.09 (2.40)	0.078 (2.0)	CKN10301-ND	.54	.43	.35	798D02000
Red	.157 (4.00)	0.09 (2.40)	0.078 (2.0)	CKN10302-ND	.54	.43	.35	798D03000
Fig. 3 — Square Pushbutton Caps 8020, 8060, E010, E020, KM11, L, and TP								
Black Gloss	.450 (11.43)	.240 (6.10)	.122 (3.10)	CKN1757-ND	.75	.60	.48	798202263

* Recommended for MS9 plunger Δ EP11 & EP12 R Option only ✔ ***NEW!***

Switch Accessories

Snap-in Frames

Material:
Black Nylon

Fig. 1

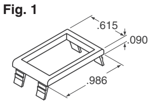

Fig. 2

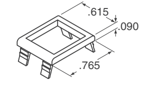

Fig.	Panel Thickness	Panel Shape	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	.062" (1.57mm)	Rectangle	CKN1746-ND	.82	.66	.52	452702263
	.090" (2.29mm)	Rectangle	CKN1747-ND	.82	.66	.52	452802263
	.125" (3.18mm)	Rectangle	CKN1745-ND	.77	.62	.50	452602263
2	.062" (1.57mm)	Square	CKN1742-ND	1.03	.83	.66	432602263
	.090" (2.29mm)	Square	CKN1743-ND	1.09	.88	.69	432702263
	.125" (3.18mm)	Square	CKN1744-ND	1.04	.84	.66	432802263

PN Series

Specifications: • **Contact Rating:** 0.2 Amp @ 30VDC maximum • **Electrical Life:** 10,000 Make-and-Break Cycles at Full Load • **Operating/Storage Temperature:** -10°C ~ 60°C.

Materials: • **Frame:** Tin Plated Steel • **Terminals:** Silver Plated Brass • **Movable Contacts:** Silver Plated (or Clad) Phosphor Bronze • **Terminal Seal:** Epoxy

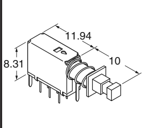

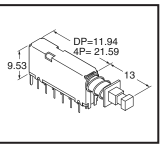

Fig. 1

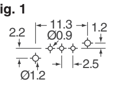

Fig. 2

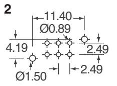

Fig. 3

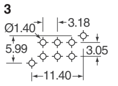

Fig. 4

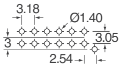

Fig.	Cir-cuit	Description	Digi-Key Part No.	Price Each 1	100	500	C&K Part No.
1	SPDT	Momentary, 120gF, Shorting	CKN9476-ND*	1.10	.70	.52	PN11SBSA03QE
	SPDT	Momentary, 230gF, Shorting	CKN9886-ND ***NEW!***	1.08	.69	.51	PN11SHSA03QE
	SPDT	Momentary, 230gF, Nonshorting	CKN1188-ND*	.82	.71	.62	PN11SHNA03QE
	SPDT	Alt. Action, 230gF, Nonshorting	CKN1189-ND*	.90	.77	.67	PN12SHNA03QE
	SPDT	Alt. Action, 330gF, Nonshorting	CKN9477-ND*	1.11	.71	.52	PN12SJNA03QE
2	DPDT	Momentary, 330gF, Nonshorting	CKN1190-ND*	.97	.84	.73	PN21SJNA03QE
	DPDT	Alt. Action, 330gF, Nonshorting	CKN1191-ND*	1.00	.88	.76	PN22SJNA03QE
3	DPDT	Momentary, 300gF, Nonshorting	CKN1192-ND†	.96	.83	.73	PN21LENA03QE
	DPDT	Alt. Action, 300gF, Nonshorting	CKN1193-ND†	1.01	.89	.77	PN22LENA03QE
4	4PDT	Momentary, 300gF, Nonshorting	CKN1194-ND†	1.16	.99	.86	PN41LENA02QE
	4PDT	Alt. Action, 300gF, Nonshorting	CKN1195-ND†	1.29	1.10	.97	PN42LENA02QE

* Use PHA caps † Use PVA caps

ELUM™ Series

Features: • Low height above PCB • Reliable self-cleaning contact • Central LED illumination • Long travel • Smooth feel **Materials:** • Fixed Contacts and Terminals: Stainless steel, silver plated with gold flash • Movable Contacts: Copper alloy, silver plated with gold flash • Base: Glass filled LCP (UL94V-0) • Actuator: Glass filled nylon 4/6 (UL94V-0) • Cover: Stainless steel **Electrical:** • Maximum Voltage: 50VDC • Maximum Current: 250mA **Mechanical:** • Operating Force: 250gF **Operating Environment:** • Operating Temperature: -40°C ~ 80°C • Operating Life: 30,000 Cycles

Dimensions in mm

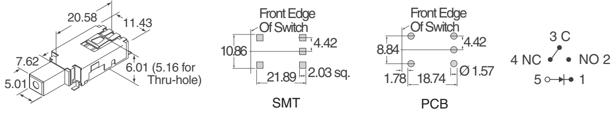

Terminal	LED Color	Max. LED Intensity (mcd)†	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Illuminated Momentary Pushbutton							
PCB	None	N/A	CKN9027-ND	5.15	4.12	3.26	ELUMOATHQC02
	Green/Red	20	CKN9031-ND	6.58	5.27	4.17	ELUMOATHQ2C12
	Green/Red	20	CKN10106-ND ***NEW!***	6.83	5.47	4.33	ELUMOATHQ2C22
	Red	8	CKN9028-ND	6.14	4.92	3.90	ELUMOATHQ3C12
	Green	50	CKN9029-ND	6.14	4.92	3.90	ELUMOATHQ6C12
	Green	50	CKN10107-ND ***NEW!***	6.39	5.12	4.05	ELUMOATHQ6C22
	Blue	1,500	CKN9030-ND	6.39	5.12	4.05	ELUMOATHQ7C12
	Blue	1,500	CKN10108-ND ***NEW!***	6.65	5.32	4.21	ELUMOATHQ7C22
SMT	Green/Red	20	CKN9035CT-NDΔ	7.81	6.73	5.41	ELUMOASAQ2C12
	Green/Red	20	CKN9035TR-ND‡	1945.62/450			ELUMOASAQ2C12
	Green/Red	20	CKN10210CT-NDΔ ***NEW!***	8.08	7.46	6.84	ELUMOASAQ2C22
	Green/Red	20	CKN10210TR-ND‡ ***NEW!***	2012.85/450			ELUMOASAQ2C22
	Red	8	CKN9032CT-NDΔ	7.33	6.32	5.08	ELUMOASAQ3C12
	Red	8	CKN9032TR-ND‡	1827.36/450			ELUMOASAQ3C12
	Green	50	CKN9033CT-NDΔ	7.33	6.32	5.08	ELUMOASAQ6C12
	Green	50	CKN9033TR-ND‡	1827.36/450			ELUMOASAQ6C12
	Green	50	CKN10211CT-NDΔ ***NEW!***	7.61	7.02	6.44	ELUMOASAQ6C22
	Green	50	CKN10211TR-ND‡ ***NEW!***	1895.40/450			ELUMOASAQ6C22
	Blue	1,500	CKN9034CT-NDΔ	7.61	6.56	5.27	ELUMOASAQ7C12
	Blue	1,500	CKN9034TR-ND‡	1684.80/400			ELUMOASAQ7C12
	Blue	1,500	CKN9462CT-NDΔ	7.87	7.27	6.67	ELUMOASAQ7C22
	Blue	1,500	CKN9462TR-ND‡	1962.63/450			ELUMOASAQ7C22
	Amber/Green	10	CKN9463CT-NDΔ	8.10	7.48	6.86	ELUMOASAQ8C22
	Amber/Green	10	CKN9463TR-ND‡	2018.52/450			ELUMOASAQ8C22
Illuminated Latching Pushbutton							
PCB	None	N/A	CKN9036-ND	5.42	4.34	3.44	ELUMEETHQC02
	White	5,000	CKN9037-ND	7.23	5.79	4.58	ELUMEETHQ1C12
	Green/Red	20	CKN9043-ND	6.86	5.49	4.35	ELUMEETHQ2C12
	Green/Red	20	CKN10103-ND ***NEW!***	7.11	5.69	4.51	ELUMEETHQ2C22
	Red	8	CKN9038-ND	6.42	5.14	4.07	ELUMEETHQ3C12
	Amber	50	CKN9039-ND	6.43	5.15	4.07	ELUMEETHQ5C12
	Green	50	CKN9040-ND	6.42	5.14	4.07	ELUMEETHQ6C12
	Green	50	CKN10104-ND ***NEW!***	6.67	5.34	4.23	ELUMEETHQ6C22
	Blue	1,500	CKN9041-ND	6.67	5.34	4.23	ELUMEETHQ7C12
	Blue	1,500	CKN10105-ND ***NEW!***	6.92	5.54	4.39	ELUMEETHQ7C22
	Amber/Green	10	CKN9042-ND	6.88	5.51	4.36	ELUMEETHQ8C12
	Amber/Green	10	CKN9461-ND	7.13	5.70	4.52	ELUMEETHQ8C22
SMT	Green/Red	20	CKN9047CT-NDΔ	8.11	6.99	5.62	ELUMEESAQ2C12
	Green/Red	20	CKN9047TR-ND‡	2020.14/450			ELUMEESAQ2C12
	Green/Red	20	CKN9459CT-NDΔ	8.38	7.74	7.09	ELUMEESAQ2C22
	Green/Red	20	CKN9459TR-ND‡	2087.37/450			ELUMEESAQ2C22
	Red	8	CKN9044CT-NDΔ	7.63	6.58	5.29	ELUMEESAQ3C12
	Red	8	CKN9044TR-ND‡	1901.88/450			ELUMEESAQ3C12
	Green	50	CKN9045CT-NDΔ	7.63	6.58	5.29	ELUMEESAQ6C12
	Green	50	CKN9045TR-ND‡	1901.88/450			ELUMEESAQ6C12
	Green	50	CKN10208CT-NDΔ	7.90	7.30	6.69	ELUMEESAQ6C22
	Green	50	CKN10208TR-ND‡ ***NEW!***	1969.11/450			ELUMEESAQ6C22
	Blue	1,500	CKN9046CT-NDΔ	7.90	6.81	5.47	ELUMEESAQ7C12
	Blue	1,500	CKN10209CT-NDΔ ***NEW!***	8.17	7.55	6.92	ELUMEESAQ7C22
	Blue	1,500	CKN10209TR-ND‡ ***NEW!***	2037.15/450			ELUMEESAQ7C22
	Blue	1,500	CKN9046TR-ND‡	1969.11/450			ELUMEESAQ7C12
	Amber/Green	10	CKN9460CT-NDΔ	8.39	7.75	7.11	ELUMEESAQ8C22
	Amber/Green	10	CKN9460TR-ND‡	2092.23/450			ELUMEESAQ8C22
Laser Etched Standby Symbol with White paint			CKN9455-ND	1.32	1.06	.84	181D00000
Laser Etched Standby Symbol with Black paint			CKN9456-ND	1.32	1.06	.84	181D01000
High Temp, Black Cap, No Symbol			CKN9457-ND	.58	.47	.37	956C02000
High Temp, Black Cap, Standby Symbol Black			CKN9458-ND	.58	.47	.37	957C00000

Δ Cut Tape ‡ Tape and Reel † LED Forward Current: 20mA LED Forward Voltage: 2.0V Typical

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

F Series

RoHS COMPLIANT

An essential feature of the F pushbutton switch is the bridge contact which is spring loaded, guaranteeing constant pressure on the contacts. **Travel:** 4.7/3.3mm **Operating Force:** 650gF **Switching:** Voltage Maximum: 125VAC/30VDC (silver), 50VAC/30VDC (gold), Current Maximum: 0.5A (silver), 0.4VA (gold) **Contact Resistance:** 10 ~ 20mΩ **Contact Material:** Silver or Gold **Operating Temperature:** -40°C ~ 70°C **Termination:** PCB Mount

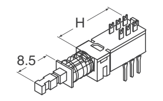

Circuit	Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPDT	Alternate Action, .5A, Silver Plating	21.0	401-1223-ND	2.08	1.67	1.32	F2UEE
	Alternate Action, .4VA, Gold Plating	21.0	401-1224-ND	5.42	4.34	3.44	F2UEE AU
	Momentary Action, .5A, Silver Plating	21.0	401-1225-ND	1.85	1.48	1.18	F2UOA
4PDT	Alternate Action, .5A, Silver Plating	33.0	401-1226-ND	3.61	2.89	2.29	F4UEE
	Alternate Action, .4VA, Gold Plating	33.0	401-1227-ND	10.25	8.21	6.50	F4UEE AU
	Momentary Action, .5A, Silver Plating	33.0	401-1228-ND	3.53	2.83	2.24	F4UOA
6PDT	Alternate Action, .5A, Silver Plating	45.0	CKN9666-ND ***NEW!***	4.61	3.70	2.93	F6UEE
NEW! With Top and Bottom Terminal Sealing NEW!							
DPDT	Alternate Action, .5A, Silver Plating	21.0	CKN10023-ND	2.41	1.93	1.53	F2UEE TB
	Momentary Action, .5A, Silver Plating	21.0	CKN10024-ND	2.38	1.91	1.51	F2UOA TB
4PDT	Alternate Action, .5A, Silver Plating	33.0	CKN10025-ND	3.77	3.02	2.39	F4UEE TB
	Momentary Action, .5A, Silver Plating	33.0	CKN10026-ND	3.71	2.97	2.35	F4UOA TB

Switch Caps for F Series

RoHS COMPLIANT

Dimensions in mm

Fig. 1

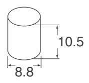

Fig. 2

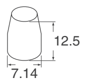

Fig. 3

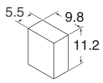

Fig. 4 ***NEW!***

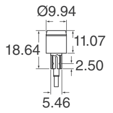

Fig. 5 ***NEW!***

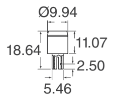

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	Round, Black	401-1215-ND	.55	.44	.35	F0201
	Round, Grey	401-1217-ND	.61	.49	.39	FG/GY
	Round, Red	401-1218-ND	.58	.47	.37	FG/RD
	Round, White	401-1216-ND	.58	.47	.37	F0202
2	Bullet, Black	401-1212-ND	.30	.24	.19	F0101
	Bullet, Grey	401-1214-ND	.56	.45	.36	FMR GY
	Bullet, White	401-1213-ND	.30	.24	.19	F0102
3	Rectangle, Black	401-1219-ND	.53	.43	.34	FSC/BK
	Rectangle, Grey	401-1221-ND	.61	.49	.39	FSC/GY
	Rectangle, Red	401-1222-ND	.57	.46	.37	FSC/RD
	Rectangle, White	401-1220-ND	.58	.47	.37	FSC/WHT
4	Round, White	CKN10019-ND ***NEW!***	2.16	1.73	1.37	F08010102
	Round, Orange	CKN10020-ND ***NEW!***	2.18	1.75	1.38	F08010112
5	Mechanical Button, White	CKN10021-ND ***NEW!***	2.70	2.16	1.71	F11010102
	Mechanical Button, Green	CKN10073-ND ***NEW!***	2.24	1.79	1.42	F11010108
	Mechanical Button, Orange	CKN10022-ND ***NEW!***	2.29	1.84	1.45	F11010112

NEW! Central Mounted F-Modules

RoHS COMPLIANT

Dimensions in mm

Single modules of the F Series including mains/power modules NE18 and NE18CTII are available with central mounting.
Standard Designs:

- **ZF12:** with threaded mounting M12x0.75 and a metal knurled nut.
- **ZFA:** with threaded mounting M14x1 optional with threaded plastic front panel or with knurled nut also indication button FA200.

Fig. 1 — ZF12

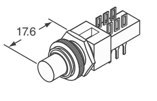

Fig. 2 — ZFA

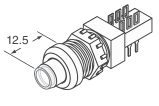

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	DPDT	Alternate Action, Silver	CKN10066-ND	29.67	23.74	18.80	ZF12 FG BK 2U EE
	DPDT	Momentary Action, Silver	CKN10067-ND	13.80	11.04	8.74	ZF12 FG BK 2U OA
	4PDT	Alternate Action, Silver	CKN10070-ND	28.80	23.04	18.24	ZF12 FG BK 4U EE
	4PDT	Momentary Action, Silver	CKN10071-ND	28.80	23.04	18.24	ZF12 FG BK 4U OA
2	DPDT	Alternate Action, Silver	CKN10064-ND	22.73	18.19	14.40	ZFA FA200 BK GN 2U EE
	DPDT	Alternate Action, Silver	CKN10065-ND	21.37	17.10	13.54	ZFA FA200 BK OG 2U EE
	4PDT	Alternate Action, Silver	CKN10068-ND	23.32	18.66	14.77	ZFA FA200 BK GN 4U EE
	4PDT	Alternate Action, Silver	CKN10069-ND	22.35	17.88	14.16	ZFA FA200 BK OG 4U EE

PHA Series

RoHS COMPLIANT

Small dimensions make it the ideal choice for today's demanding switch requirements. Non-shorting contacts. **Switching:** Voltage Maximum: 30VDC, Current Maximum: 100mA DC **Operating Life:** 10^4 operations **Contact Resistance:** 20mΩ **Operating Temperature:** -10°C ~ 60°C **Operating Force:** 170gF

Dimensions in mm

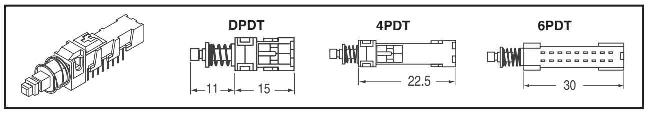

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPDT	Alternate Action	401-1192-ND	1.33	1.07	.85	PHA2UEE
	Momentary Action	401-1195-ND	1.15	.92	.73	PHA2UOA
4PDT	Alternate Action	401-1193-ND	1.78	1.43	1.13	PHA4UEE
	Momentary Action	401-1196-ND	1.66	1.33	1.05	PHA4UOA
6PDT	Alternate Action	401-1194-ND	2.45	1.97	1.56	PHA6UEE
	Momentary Action	401-1197-ND	2.36	1.89	1.50	PHA6UOA

Switch Caps for PHA Series

RoHS COMPLIANT

Dimensions in mm

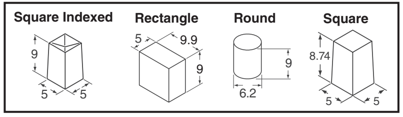

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Square, Indexed, Black	401-1198-ND	.46	.37	.30	G001A
Square, Indexed, Grey	401-1199-ND	.47	.38	.30	G001G
Square, Indexed, Red	401-1200-ND	.47	.38	.30	G001R
Rectangle, Black	401-1201-ND	.52	.42	.33	G002A
Rectangle, Grey	401-1202-ND	.52	.42	.34	G002G
Rectangle, Red	401-1203-ND	.53	.43	.34	G002R
Round, Black	401-1204-ND	.62	.50	.39	454D02000
Round, Blue	401-1207-ND	.53	.43	.34	G003B
Round, Grey	401-1205-ND	.52	.42	.33	G003G
Round, Red	401-1206-ND	.52	.42	.33	G003R
Square, Black	CKN9473-ND	.52	.42	.33	G004A
Square, Grey	CKN9474-ND	.52	.42	.33	G004G
Square, Red	CKN9475-ND	.53	.43	.34	G004R

PVA Pushbutton Switches

Dimensions in mm

- **Switching:** Voltage Maximum: 32VDC, Current Maximum: 100mADC
- **Operating Life:** 10^5 operations
- **Contact Resistance:** 150mΩ
- **Operating Temperature:** -40°C ~ 85°C (without button)

RoHS COMPLIANT

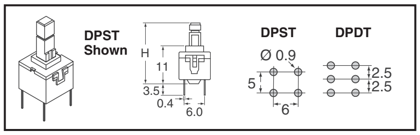

Circuit	Description	Dim H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPST-NO	Alternate Action, 120gF	17.5	401-1132-ND†	1.55	1.25	.99	PVA1 EE H1
	Alternate Action, 120gF	23	401-1134-ND§	1.73	1.39	1.10	PVA1 EE H2
	Alternate Action, 120gF	20.5	401-1136-ND†	1.73	1.39	1.10	PVA1 EE H3
	Alternate Action, 120gF	15	401-1138-NDΔ	1.73	1.39	1.10	PVA1 EE H4
	Momentary Action, 120gF	17.5	401-1133-ND†	1.46	1.18	.93	PVA1 OA H1
	Momentary Action, 120gF	23	401-1135-ND§	1.64	1.32	1.05	PVA1 OA H2
	Momentary Action, 120gF	20.5	401-1137-ND†	1.64	1.32	1.05	PVA1 OA H3
	Momentary Action, 120gF	15	401-1139-NDΔ	1.64	1.32	1.05	PVA1 OA H4
	Momentary Action, 350gF	17.5	CKN10276-ND† ***NEW!***	1.73	1.39	1.10	PVA1 EE H1 3.5N
DPDT-NO	Alternate Action, 170gF	17.5	401-1140-ND†	1.64	1.32	1.05	PVA2 EE H1
	Alternate Action, 170gF	23	401-1142-ND§	1.78	1.43	1.13	PVA2 EE H2
	Alternate Action, 170gF	20.5	401-1144-ND†	1.78	1.43	1.13	PVA2 EE H3
	Alternate Action, 170gF	15	401-1146-NDΔ	1.78	1.43	1.13	PVA2 EE H4
	Momentary Action, 170gF	17.5	401-1141-ND†	1.55	1.25	.99	PVA2 OA H1
	Momentary Action, 170gF	23	401-1143-ND§	1.69	1.36	1.07	PVA2 OA H2
	Momentary Action, 170gF	15	401-1147-NDΔ	1.69	1.36	1.07	PVA2 OA H4

† Use PE or PV series caps § Use F series caps Δ No caps available

Switch Caps for PVA Series

RoHS COMPLIANT

Dimensions in mm

Rectangle

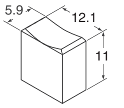

Round

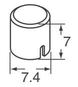

Description	Digi-Key Part No.	Pricing 1	25	100	C&K Part No.
Switch Caps for PVA Pushbutton Switches					
Rectangle, Black	401-1152-ND	.47	9.30	29.45	PE BK
Rectangle, Grey	401-1153-ND	.47	9.30	29.45	PE GY
Rectangle, Red	401-1154-ND	.47	9.30	29.45	PE RD
Rectangle, White	401-1155-ND	.47	9.30	29.45	PE WH
Round, Black	401-1148-ND	.38	7.68	24.32	PV BK
Round, Grey	401-1149-ND	.38	7.68	24.32	PV GY
Round, Red	401-1150-ND	.38	7.68	24.32	PV RD
Round, White	401-1151-ND	.38	7.68	24.32	PV WH

JUDCO Manufacturing Inc.

Plastic Pushbutton Switches

Features: • 3/8-27 Thread (Nut is included) • 4.5” Wireleads

Dimensions in Inches

Fig.	Circuit	Function	Termination	Bushing	Actuator Color	Body Color	Contact Rating	Digi-Key Part No.	Price Each			Judco Part No.
									1	10	100	
Solder Tab Pushbuttons												
1	SPST	On, Off	.110 QC	Tall	Red	Black	14VDC, 2A	501PB-ND	1.38	1.17	1.05	40-1672-02
	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 2A	508PB-ND	1.63	1.38	1.23	40-2502-01
	SPST	On, Off	.110 QC	Tall	White	Black	14VDC, 5A	537PB-ND	2.07	1.76	1.57	40-3438-02
	SPST	Momentary N/O	.110 QC	Tall	Red	Black	14VDC, 2A	502PB-ND	1.83	1.56	1.39	40-1673-01
	SPST	Momentary N/O	.110 QC	Tall	Black	Black	14VDC, 2A	509PB-ND	1.45	1.23	1.10	40-3429-00
	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 5A	544PB-ND	1.68	1.42	1.27	40-4532-00
	SPST	On, Off	.110 QC	Short	Black	Black	14VDC, 5A	550PB-ND	1.60	1.36	1.21	40-4520-00
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	503PB-ND	1.64	1.39	1.24	40-1880-02
	SPST	Momentary N/C	.110 QC	Tall	Black	Black	14VDC, 2A	510PB-ND	1.82	1.54	1.37	40-2504-01
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	536PB-ND	2.08	1.76	1.57	40-3437-02
2	SPST	Mom N/C Tactile Feel	.110 QC	Tall	Black	Black	14VDC, 5A	556PB-ND	2.05	1.74	1.55	40-4689-00
	SPST	On, Off Tactile Feel	.110 QC	Tall	Black	Black	14VDC, 5A	557PB-ND	1.88	1.59	1.42	40-4677-00
Wire Lead Pushbuttons												
3	SPST	On, Off	18AWG	Short	Black	Black	14VDC, 2A	528PB-ND	2.01	1.70	1.52	40-3352-02
	SPST	On, Off (Initial Mom On)	18AWG	Short	Black	Black	14VDC, 2A	526PB-ND	2.69	2.28	2.03	40-3355-01
	SPST	Mom N/O Tactile Feel	20AWG	Short	Black	Black	14VDC, 2A	563PB-ND ***NEW!***	2.44	2.07	1.85	40-4692-00
	SPST	On, Off	18AWG	Short	Black	Black	14VDC, 5A	546PB-ND	1.89	1.60	1.43	40-4525-00
	SPST	Momentary N/C	18AWG	Short	Black	Black	14VDC, 5A	561PB-ND ***NEW!***	1.98	1.68	1.50	40-3536-00
	SPST	On, Off	18AWG	Tall	Red	Black	14VDC, 2A	505PB-ND	1.97	1.67	1.49	40-2386-00
	SPST	On, Off	20AWG	Tall	Black	Black	14VDC, 2A	504PB-ND	1.54	1.31	1.17	40-2385-01
	SPST	On, Off (Initial Mom On)	18AWG	Tall	Black	Black	14VDC, 2A	525PB-ND	2.32	1.97	1.75	40-4463-00
	SPDT	On1, On2	18AWG	Tall	Black	Black	14VDC, 2A	527PB-ND	2.16	1.83	1.63	40-4169-00
	SPDT	On1, Off, On2	18AWG	Tall	Black	Black	14VDC, 2A	522PB-ND	2.52	2.14	1.90	40-3657-00
	SPDT	Off, On1, On1 and 2, On2	18AWG	Tall	White	White	14VDC, 2A	524PB-ND	2.60	2.21	1.97	40-3658-01
	SPST	Momentary N/O	18AWG	Tall	Red	Black	14VDC, 2A	506PB-ND	1.72	1.46	1.30	40-2390-00
	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	507PB-ND	1.72	1.46	1.30	40-2388-01
	SPST	Mom N/O Overtravel	18AWG	Tall	Black	Black	14VDC, 2A	521PB-ND	1.79	1.52	1.35	40-3573-02
	SPDT	Momentary N/O	18AWG	Tall	Red	Black	14VDC, 2A	523PB-ND	3.71	3.14	2.80	40-2531-01
	SPST	Mom N/O Tactile Feel	18AWG	Tall	Black	Black	14VDC, 2A	562PB-ND ***NEW!***	2.60	2.20	1.96	40-4394-00
	SPST	On, Off	18AWG	Tall	Black	Black	14VDC, 5A	545PB-ND	1.87	1.59	1.41	40-4526-00
	SPST	Mom N/C Tactile Feel	18AWG	Tall	Black	Black	14VDC, 5A	558PB-ND	1.98	1.68	1.49	40-4679-00
UL Recognized Pushbuttons												
1	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 10A	547PB-ND	1.77	1.51	1.34	40-4523-00
	SPST	On, Off	.110 QC	Short	Black	Black	14VDC, 10A	549PB-ND	1.71	1.45	1.30	40-4528-00
	SPST	On, Off	.110 QC	Tall	Black	Black	125VAC, 6A	548PB-ND	2.02	1.72	1.53	40-4524-00
	SPST	Mom N/C Tactile Feel	.110 QC	Tall	Black	Black	14VDC, 10A	553PB-ND	2.01	1.71	1.52	40-4675-00
2	SPST	On, Off Tactile Feel	.110 QC	Tall	Black	Black	125VAC, 6A	554PB-ND	2.06	1.75	1.56	40-4684-00
	SPST	On, Off Tactile Feel	.110 QC	Tall	Black	Black	14VDC, 10A	555PB-ND	1.96	1.67	1.48	40-4685-00
	SPST	Mom N/O Overtravel	.110 QC	Tall	Black	Black	125VAC, 3A-I, 2A-L	520PB-ND	2.22	1.88	1.68	40-3425-03
3	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 4A	539PB-ND	2.18	1.85	1.65	40-4314-00
	SPST	On, Off	18AWG	Tall	Black	Black	14VDC, 10A	512PB-ND	1.66	1.41	1.26	40-4325-00
	SPST	Mom N/C Tactile Feel	18AWG	Tall	Black	Black	14VDC, 10A	541PB-ND	2.26	1.92	1.71	40-4316-00
	SPST	Momentary N/O	18AWG	Tall	Black	Black	125VAC, 3A-I, 2A-L	538PB-ND	2.52	2.13	1.90	40-4313-00
	SPST	On, Off	18AWG	Tall	Black	Black	125VAC, 6A	511PB-ND	1.76	1.50	1.34	40-3145-01
	SPST	Mom N/C Tactile Feel	18AWG	Tall	Black	Black	125VAC, 6A	540PB-ND	2.27	1.93	1.72	40-4315-00
	SPST	On, Off	18AWG	Short	Black	Black	125VAC, 6A	552PB-ND	2.00	1.69	1.51	40-4521-00
NEW! UL Recognized Pushbuttons with Bezel NEW!												
4	SPST	On, Off	18AWG	Tall	Yellow	Black	125VAC, 6A	564PB-ND	2.77	2.34	2.09	40-4743-00
	SPST	On, Off	18AWG	Tall	Yellow	Black	14VDC, 10A	565PB-ND	2.83	2.40	2.14	40-4744-00
Accessories												
—	Rubber Boot with Nut, Fits Tall Bushing, Black							513PB-ND	.79	.67	.60	19-1088-00
	Rubber Boot with Nut, Fits Tall Bushing, Red							531PB-ND	.82	.70	.62	19-1103-00
	Rubber Boot with Nut, Fits Short Bushing, Black							532PB-ND	.93	.79	.70	19-1082-00
	Replacement Nut, Black Plastic							516PB-ND	.16	.14	.13	18-0112-02
	Brass Knurled Nut							533PB-ND	.63	.54	.48	18-1010-00
	Brass Hex Nut							534PB-ND	.82	.70	.62	18-1006-00
	Nickel Hex Nut							535PB-ND	.85	.73	.65	18-1017-00
Mini Flat-Pac Pushbuttons												
5	SPST	On, Off	Right Angle	—	Yellow	Black	14VDC, 500mA	519PB-ND	1.32	1.12	1.00	50-0015-00
6	SPST	On, Off	Straight	—	Yellow	Black	14VDC, 500mA	518PB-ND	1.32	1.12	1.00	50-0014-00
7	SPDT	On1, Off, On2	Right Angle	—	Yellow	Black	14VDC, 500mA	529PB-ND	1.24	1.05	.94	50-0041-00
	SPDT	On1, On2, Off	Right Angle	—	Blue	Black	12VDC, 500mA	542PB-ND	1.19	1.01	.90	50-0088-00
8	SPDT	On1, Off, On2	Straight	—	Yellow	Black	14VDC, 500mA	530PB-ND	1.19	1.01	.90	50-0063-00
Flat-Pac Pushbuttons												
9	SPST	On, Off	Right Angle	—	Black	Black	14VDC, 2A	514PB-ND	2.28	1.93	1.72	40-1801-03
	SPST	On, Off	18AWG	—	Black	Black	14VDC, 2A	515PB-ND	2.43	2.06	1.84	40-3979-00
	SPST	Mom N/O Tactile Feel	Right Angle	—	White	White	14VDC, 2A	559PB-ND	2.58	2.19	1.95	40-4681-00
	SPST	Mom N/C Tactile Feel	20AWG	—	Black	Black	14VDC, 2A	560PB-ND	2.27	1.92	1.72	40-4682-00
NEW! Light Bulb Socket NEW!												
10	T-3 1/4 ~ T-5 Wedge Base Bulb Socket, Black, 20AWG, 4.50” Wires							566PB-ND	1.21	1.02	.91	42-0711-00

Fig. 1

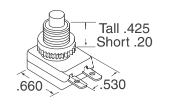

Fig. 2

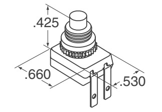

Fig. 3

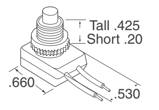

Fig. 4 ***NEW!***

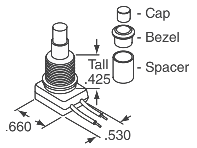

Fig. 5

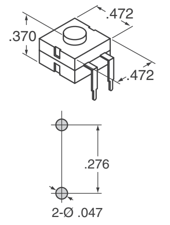

Fig. 6

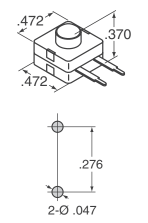

Fig. 7

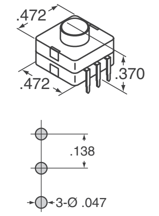

Fig. 8

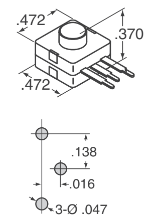

Fig. 9

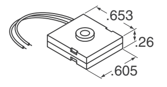

Fig. 10 ***NEW!***

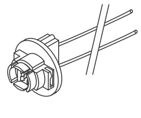

CW INDUSTRIES

NEW! Pushbutton Switches — GPB Series

GPB series pushbutton switches are adaptable to a wide variety of applications.

These high-quality, long-life switches range in size and function and are available in both illuminated and non-illuminated versions.

Switches in this pushbutton series are available with ratings ranging from .5 to 6A @ 125VAC to 1.5A to 3A @ 250VAC as well as 6A @ 14VDC.

They come with various button styles, and the terminations include solder lug and PC Pin. Along with variable functions and mounting styles, nut and snap-fittings are also available.

Note: *for listing agencies refer to datasheets on Digi Key website*

Fig. 1

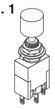

Fig. 2

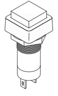

Fig. 3

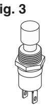

Fig. 4

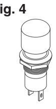

Fig. 5

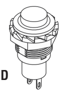

SW633-ND Shown

Fig. 6

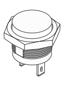

Fig. 7

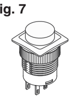

Fig. 8

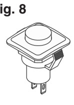

Fig. 9

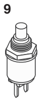

Fig. 10

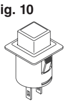

Fig.	Fitting	Circuit	Switch Function	Actuator Color	Electrical Ratings	Digi-Key Part No.	Price Each				CW Industries Part No.
							1	10	50	100	
1	Nut	SPDT	On-Mom	Black	6A 125 VAC, 3A 250 VAC	SW625-ND	4.08	3.63	3.02	2.61	GPB001PA06A1UB
2	Nut	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW626-ND	1.57	1.40	1.16	1.01	GPB023A05BR
	Nut	SPST	Off-On	Red	3A 125 VAC, 1.5A 250 VAC	SW627-ND	1.57	1.40	1.16	1.01	GPB023B05BR
3	Nut	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW628-ND	1.24	1.11	.92	.80	GPB024A05BR
	Nut	SPST	Off-Mom	Black	3A 125 VAC, 1.5A 250 VAC	SW629-ND	1.24	1.11	.92	.80	GPB024A05BB
4	Nut	SPST	Off-Mom	Black	3A 125 VAC, 1.5A 250 VAC	SW630-ND	1.70	1.52	1.26	1.09	GPB040A05BB
	Nut	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW631-ND	1.70	1.52	1.26	1.09	GPB040A05BR
	Nut	SPST	Off-On	Red	3A 125 VAC, 1.5A 250 VAC	SW632-ND	2.08	1.85	1.54	1.33	GPB040B05BR
5	Nut	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW633-ND	2.54	2.26	1.88	1.63	GPB502A05BR
	Nut	SPST	Off-Mom	Black	3A 125 VAC, 1.5A 250 VAC	SW634-ND	3.19	2.84	2.36	2.04	GPB502MA05BB
	Nut	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW635-ND	3.19	2.84	2.36	2.04	GPB502MA05BR
6	Nut	SPST	Off-Mom	Black	6A 125 VAC, 3A 250 VAC	SW636-ND	2.05	1.83	1.52	1.32	GPB507A05BB
	Nut	SPST	Off-Mom	Red	6A 125 VAC, 3A 250 VAC	SW637-ND	2.05	1.83	1.52	1.32	GPB507A05BR
7	Nut	SPST	Off-Mom	Red LED	3A 125 VAC, 1.5A 250 VAC	SW638-ND	4.54	4.04	3.36	2.90	GPB508AL05BR
8	Snap-in	SPST	Off-Mom	Black	3A 125 VAC, 1.5A 250 VAC	SW639-ND	2.67	2.38	1.98	1.71	GPB510A05BB
	Snap-in	SPST	Off-Mom	Red	3A 125 VAC, 1.5A 250 VAC	SW640-ND	2.67	2.38	1.98	1.71	GPB510A05BR
9	Nut	SPST	Off-Mom	Black	0.5A 125 VAC	SW641-ND	1.73	1.54	1.28	1.11	GPB081A09B
	Nut	SPST	Off-Mom	Red	0.5A 125 VAC	SW642-ND	1.73	1.54	1.28	1.11	GPB081A09R
10	Snap-in	SPST	Off-Mom	Black	6A 14 VDC, 3A 28 VDC	SW643-ND	3.94	3.51	2.92	2.52	GPB554A05BB
	Snap-in	SPST	Off-On	Black	6A 14 VDC, 3A 28 VDC	SW644-ND	3.94	3.51	2.92	2.52	GPB554B05BB
	Snap-in	SPST	Off-Mom	Red LED	6A 14 VDC, 3A 28 VDC	SW645-ND	5.02	4.47	3.72	3.21	GPB554CL05BR
	Snap-in	SPST	Off-On	Red LED	6A 14 VDC, 3A 28 VDC	SW646-ND	5.02	4.47	3.72	3.21	GPB554DL05BR

Miniature Pushbutton Switches PBH Series

Miniature switches that feature an ultra light feel with a short stroke. Ideal for telecommunications and test equipment, and wherever miniaturization is required.
• **Contact/Terminals Material:** Silver Plated • **Contact Resistance:** <0.1Ω • **Voltage Rating:** 30VDC • **Switching Current Maximum:** 100mA • **Life:** ≥1 x 10,000 cycles • **Moving Contacts:** Phosphor bronze – 1 micron silver • **Force:** 280 ±50gF • **Travel To Lock:** .08" (2mm) • **Operating Temperature Range:** -20°C ~ 70°C • ***Caps sold separately***

Dimensions in Inch (mm)

Fig. 1 — No Mounting Bracket

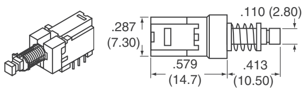

Fig. 2 — Chassis Mount Version

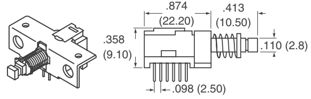

Fig. 3

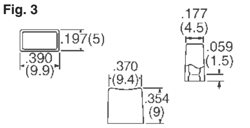

Fig. 4

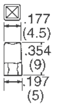

Fig. 5

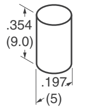

Fig. 6

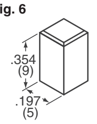

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
1	Right Angle, Momentary, DPDT	EG2654-ND	1.23	10.96	94.50	PBH2UOANAGX
	Right Angle, Alternate Action DPDT	EG2655-ND	1.36	12.09	104.25	PBH2UEENAGX
	Right Angle, Alternate Action, 4PDT	EG2657-ND	1.55	13.83	119.25	PBH4UEENAGX
	Right Angle, Momentary, 4PDT	EG2658-ND	1.41	12.62	108.75	PBH4UOANAGX
2	Chassis Mount, Right Angle, Alternate Action DPDT	EG2656-ND	1.01	8.99	77.50	1XPBH2UEENAGX
3	Rectangle Cap, Red	EG1185-ND	.25	2.26	19.50	1CRED
	Rectangle Cap, Black	EG1181-ND	.25	2.26	19.50	1CBLK
	Rectangle Cap, Dark Grey	EG1182-ND	.26	2.35	20.25	1CDGR
4	Long Square Cap, Red	EG1195-ND	.25	2.26	19.50	1DRED
	Long Square Cap, Black	EG1191-ND	.25	2.26	19.50	1DBLK
	Long Square Cap, Dark Grey	EG1192-ND	.26	2.35	20.25	1DDGR
5	Round Cap, Diameter, Red	EG1880-ND	.25	2.26	19.50	1RRED
	Round Cap, Diameter, White	EG1881-ND	.25	2.26	19.50	1RWHT
	Round Cap, Diameter, Black	EG1882-ND	.25	2.26	19.50	1RBLK
	Round Cap, Diameter, Light Grey	EG1883-ND	.26	2.35	20.25	1RLGR
	Round Cap, Diameter, Dark Grey	EG1884-ND	.26	2.35	20.25	1RDGR
6	Square Cap, Black	EG4379-ND	.25	2.26	19.50	1SBLK
	Square Cap, Red	EG4364-ND	.25	2.26	19.50	1SRED
	Square Cap, White	EG4365-ND	.25	2.26	19.50	1SWHT

Power Switches P227/P197 Series

P227 Series: Rating 125VAC @ 7A, 250VAC @ 4A. DPDT Alternate Action Panel Mount. Approvals: UL, CSA, Demko, Semko, SEV, Femko, Nemko.
P197 Series: Rating 10A @ 125VAC. Approvals: UL, CSA, VDE, Semko, Nemko, Demko.
Caps sold separately.

Dimensions in Inch (mm)

Fig. 1

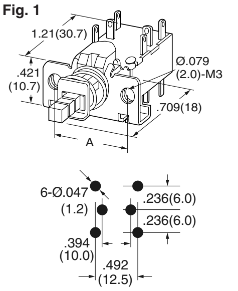

Fig. 2

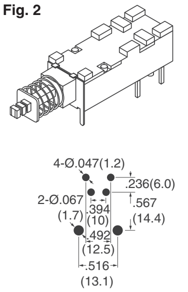

Fig. 3

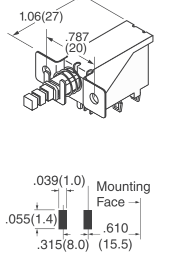

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Pushbutton, DPDT, Alt. Act., Dim. A = .79" (20mm)	EG1018-ND	3.49	3.12	2.69	P227EE2B20A
	Pushbutton, DPDT, Alt. Act., Dim. A = .71" (18mm)	EG1020-ND	3.49	3.12	2.69	P227EE2B18A
2	Pushbutton, DPST, Alt. Act., PCB Mount, 7A	EG1026-ND	3.40	3.04	2.62	P227EE1CXC
3	Pushbutton, SPST, Alt. Act., Panel Mount, 10A	EG1022-ND	3.17	2.83	2.44	P197EESB

Pushbutton Switches
JN Series

Dimensions in Inch (mm)

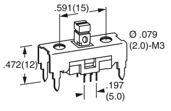

- **Contacts:** Silver Plated
- **Contact Resistance:** 50mΩ maximum
- **Voltage Ratings:** 30V
- **DC Rating:** 0.1A

Caps sold separately

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Individual Mount, Momentary Action DPDT	EG4368-ND	1.38	1.23	1.06	JN2U0ANAGX
Chassis Mount, Stand Up, Alternate Action DPDT	EG1016-ND	1.15	1.03	.89	1XJN002UEE
Chassis Mount, Stand Up, Momentary Action DPDT	EG1017-ND	1.65	1.48	1.28	1XJN002UOA

Pushbutton Switches TL Series

Dimensions in Inch (mm)

DC Rating: 30V 0.1A
Circuit: DPDT - 4PDT
Timing: Non-Shorting
Travel Stroke: Full 2.5, Lock 1.5
Operating Force: TL2285 = 180 ±50gf
TL4201 = 250 +100/-50gf
Life: 10,000 cycles minimum
Caps sold separately.
TL2285 Series: use PBH caps
TL4201 Series: use 4J/6J caps

Fig. 1

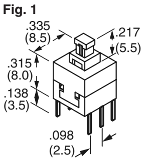

Fig. 2

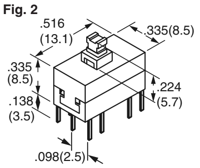

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Momentary Action, DPDT, PCB Mount, Silver Plating	EG1871-ND	1.03	.93	.80	TL2285OA
	Alternate Action, DPDT, PCB Mount, Silver Plating	EG1872-ND	1.03	.93	.80	TL2285EE
2	Alternate Action, 4PDT, PCB Mount, Silver Plating	EG1874-ND	2.22	1.98	1.71	TL4201EEYA

Switch Caps

Dimensions in Inch (mm)

Fig. 1

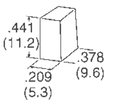

Fig. 2

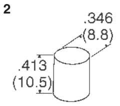

Fig. 3

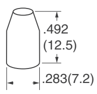

Fig. 4

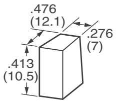

Fig. 5

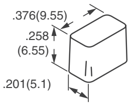

Fig.	Description‡	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
1	Rectangle Cap, White	EG1088-ND	.35	3.10	26.75	TACWHT
	Rectangle Cap, Black	EG1081-ND	.35	3.10	26.75	TACBLK
	Rectangle Cap, Red	EG1085-ND	.35	3.10	26.75	TACRED
	Rectangle Cap, Grey	EG1082-ND	.35	3.10	26.75	TACGRY
2	Round Cap, White	EG1098-ND	.35	3.10	26.75	TAGWHT
	Round Cap, Black	EG1091-ND	.35	3.10	26.75	TAGBLK
	Round Cap, Grey	EG1092-ND	.35	3.10	26.75	TAGGRY
	Round Cap, Red	EG1095-ND	.35	3.10	26.75	TAGRED
	Round Cap, Chrome	EG1099-ND	.69	6.12	52.75	TAGCHR
3	Bullet Shaped Cap, Black	EG1012-ND	.35	3.10	26.75	TAMBLK
	Bullet Shaped Cap, White	EG1013-ND	.35	3.10	26.75	TAMWHT
	Bullet Shaped Cap, Grey	EG1014-ND	.35	3.10	26.75	TAMGRY
4	Rectangle Cap, Red	EG1019-ND	.35	3.10	26.75	TADRED
	Rectangle Cap, Black	EG1877-ND	.35	3.10	26.75	TADBLK
	Rectangle Cap, White	EG1878-ND	.35	3.10	26.75	TADWHT
	Rectangle Cap, Grey	EG1879-ND	.35	3.10	26.75	TADGRY
5	Rectangle Cap, with Chamfered Edges, Black	EG1875-ND	.41	3.65	31.50	TAKBLK
	Rectangle Cap, with Chamfered Edges, Grey	EG1876-ND	.80	7.16	61.75	TAKGRY

‡ All caps are gloss finish **Note:** These caps fit JN, TL4201, P227 and P197 Series

Power Pushbutton Switches
RP8100 Series

Dimensions in mm

Features: • Threaded or snap in panel mount • LED illuminated option • Sealed to IP65
Markets: • Telecommunications • Audio • Appliance • Instrumentation • Consumer Electronics
Specifications: • Contact Rating: 125mA @ 125VAC, 100mA @ 50VDC • Life Expectancy: 500,000 cycles • Contact Resistance: 50mΩ max. • Insulation Resistance: 1,000 MΩ min. @ 500VDC • Dielectric Strength: 1,000VAC rms. • Operating Force: 300gf ±100gf • Operating Temperature: -30°C ~ 85°C
Materials: • Housing: Nylon • Button: Nylon • Terminal Case: Thermo Plastic • Terminals: Copper alloy, plated • Contact: Copper alloy, plated

Fig. 1

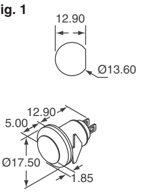

Fig. 2

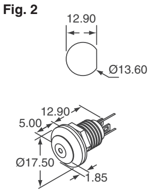

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Snap-In, Black Cap	EG4569-ND	6.70	5.98	5.15	RP8100B1M1CEBLKBLKNIL
2	Threaded, Black Cap	EG4570-ND	7.28	6.50	5.60	RP8100B2M1CEBLKBLKNIL
	Threaded, Blue Cap	EG4571-ND	7.28	6.50	5.60	RP8100B2M1CEBLKBLUNIL
	Threaded, Black Cap, Blue LED	EG4572-ND	8.78	7.83	6.75	RP8100B2M1CEBLKBLKBLU
	Threaded, Black Cap, Green LED	EG4573-ND	8.39	7.49	6.45	RP8100B2M1CEBLKBLKGRN
	Threaded, Black Cap, Red LED	EG4574-ND	8.39	7.49	6.45	RP8100B2M1CEBLKBLKRED
	Threaded, Black Cap, White LED	EG4575-ND	8.78	7.83	6.75	RP8100B2M1CEBLKBLKWHT

E•SWITCH

Illuminated Pushbutton Switches

Dimensions in mm

Fig. 1 — LP1 Series

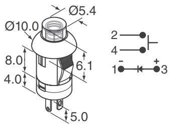

Fig. 2 — LP2 Series
NEW!

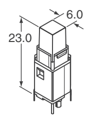

Fig. 3 — LP2 Series
NEW!

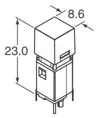

Fig. 4 — LP2 Series
NEW!

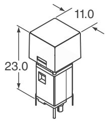

Fig. 5 — LP4 Series

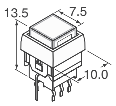

Fig. 6 — LP4 Series

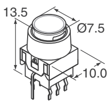

Fig. 7 — LP4 Series

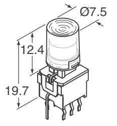

Fig. 8 — LP4 Series

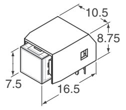

Fig. 9 — LP6 Series

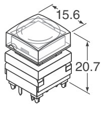

Fig. 10 — LP11 Series

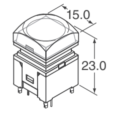

Fig. 11 — LP15 Series
NEW!

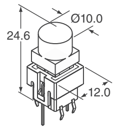

Fig. 12 — LP15 Series
NEW!

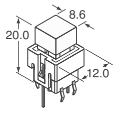

Fig. 13 — TL2205 Series
NEW!

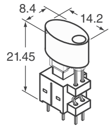

Fig.	Circuit	Switching Function	Color		Digi-Key Part No.	Price Each			E-Switch Part No.
			LED1	LED2		1	10	100	
Series LP1									
1	SPST	Off-Mom	Blue	—	EG4641-ND	5.07	4.53	3.90	LP1OA1AB
	SPST	Off-Mom	Green	—	EG4642-ND	3.51	3.14	2.70	LP1OA1AG
	SPST	Off-Mom	Red	—	EG4643-ND	3.51	3.14	2.70	LP1OA1AR
NEW! Series LP2 NEW!									
2	SPST	Off-Mom	—	—	EG4839-ND	3.90	3.48	3.00	LP2S1BLKN-N
	SPST	Off-Mom	Blue	—	EG4840-ND	5.69	5.08	4.38	LP2S1WHTBLU-N
	SPST	Off-Mom	Red	—	EG4841-ND	5.07	4.53	3.90	LP2S1WHTRED-N
3	SPST	Off-Mom	—	—	EG4842-ND	3.90	3.48	3.00	LP2S2BLKN-N
	SPST	Off-Mom	Blue	—	EG4843-ND	5.69	5.08	4.38	LP2S2WHTBLU-N
	SPST	Off-Mom	Red	—	EG4844-ND	5.07	4.53	3.90	LP2S2WHTRED-N
4	SPST	Off-Mom	—	—	EG4845-ND	3.90	3.48	3.00	LP2S3BLKN-N
	SPST	Off-Mom	Blue	—	EG4846-ND	5.69	5.08	4.38	LP2S3WHTBLU-N
	SPST	Off-Mom	Red	—	EG4847-ND	5.07	4.53	3.90	LP2S3WHTRED-N
Series LP4									
5	DPDT	On-On	Red	—	EG4644-ND	4.26	3.80	3.28	LP4EE1PBATR
	DPDT	On-On	Green	—	EG4648-ND	4.29	3.83	3.30	LP4EE1PBATG
	DPDT	On-On	Yellow	—	EG4652-ND	4.29	3.83	3.30	LP4EE1PBATY
	DPDT	On-On	Blue	—	EG4656-ND	4.29	3.83	3.30	LP4EE1PBATB
	DPDT	On-On	White	—	EG4660-ND	4.29	3.83	3.30	LP4EE1PBATW
6	DPDT	Off-Mom	Red	—	EG4645-ND	4.26	3.80	3.28	LP4OA1PBBTR
	DPDT	Off-Mom	Green	—	EG4649-ND	4.29	3.83	3.30	LP4OA1PBBTG
	DPDT	Off-Mom	Yellow	—	EG4653-ND	4.29	3.83	3.30	LP4OA1PBBTY
	DPDT	Off-Mom	Blue	—	EG4657-ND	4.29	3.83	3.30	LP4OA1PBBTB
	DPDT	Off-Mom	White	—	EG4661-ND	4.29	3.83	3.30	LP4OA1PBBTW
7	DPDT	Off-Mom	Red	—	EG4646-ND	4.00	3.57	3.08	LP4OA1PBCTR
	DPDT	Off-Mom	Green	—	EG4650-ND	4.03	3.60	3.10	LP4OA1PBCTG
	DPDT	Off-Mom	Yellow	—	EG4654-ND	5.59	4.99	4.30	LP4OA1PBCTY
	DPDT	Off-Mom	Blue	—	EG4658-ND	4.03	3.60	3.10	LP4OA1PBCTB
	DPDT	Off-Mom	White	—	EG4662-ND	5.59	4.99	4.30	LP4OA1PBCTW
Series LP4 — Right Angle PCB Mount									
8	DPDT	On-On	Red	—	EG4647-ND	4.91	4.38	3.78	LP4EE1RBATR
	DPDT	On-On	Green	—	EG4651-ND	4.91	4.38	3.78	LP4EE1RBATG
	DPDT	On-On	Yellow	—	EG4655-ND	4.91	4.38	3.78	LP4EE1RBATY
	DPDT	On-On	Blue	—	EG4659-ND	4.91	4.38	3.78	LP4EE1RBATB
	DPDT	On-On	White	—	EG4663-ND	4.91	4.38	3.78	LP4EE1RBATW
Series LP6									
9	SPST	Off-Mom	Green	Blue	EG4636-ND	11.72	10.46	9.02	LP6OA1ASGB
	SPST	Off-Mom	Yellow	Blue	EG4637-ND	11.72	10.46	9.02	LP6OA1ASYB
	SPST	Off-Mom	Red	Blue	EG4638-ND	11.72	10.46	9.02	LP6OA1ASRB
	SPST	Off-Mom	Red	Green	EG4639-ND	7.46	6.66	5.74	LP6OA1ASRG
	DPST	Off-Mom	Red	Green	EG4640-ND	9.48	8.47	7.30	LP6OA2ASRG
Series LP11									
10	SPST	Off-Mom	Red	Green	EG4664-ND	12.61	11.26	9.70	LP11OA1TBSRG
	SPST	Off-Mom	Red	Blue	EG4665-ND	11.70	10.44	9.00	LP11OA1TBSRB
	SPST	Off-Mom	Red	Red	EG4666-ND	10.76	9.61	8.28	LP11OA1TBSRR
	SPST	Off-Mom	Yellow	Yellow	EG4667-ND	10.76	9.61	8.28	LP11OA1TBSYY
	SPST	Off-Mom	Green	Green	EG4668-ND	11.70	10.44	9.00	LP11OA1TBSGG
NEW! Series LP15 NEW!									
11	SPST	Off-Mom	Red	—	EG4833-ND	5.07	4.53	3.90	LP15R1WHTRED-N
	SPST	Off-Mom	Green	—	EG4836-ND	5.07	4.53	3.90	LP15R1WHTGRN-N
	SPST	Off-Mom	Blue	—	EG4837-ND	6.24	5.57	4.80	LP15R1WHTBLU-N
12	SPST	Off-Mom	Blue	—	EG4834-ND	6.24	5.57	4.80	LP15S1WHTBLU-N
	SPST	Off-Mom	Green	—	EG4835-ND	5.07	4.53	3.90	LP15S1WHTGRN-N
	SPST	Off-Mom	Red	—	EG4838-ND	5.07	4.53	3.90	LP15S1WHTRED-N
NEW! Series TL2205 NEW!									
13	DPDT	On-On	Blue	—	EG4854-ND	3.02	2.70	2.33	TL2205EEBPBA
	DPDT	On-On	Blue	—	EG4855-ND	3.90	3.48	3.00	TL2205EEBPBB
	DPDT	On-On	Green	—	EG4856-ND	1.72	1.54	1.33	TL2205EEBPGA
	DPDT	On-On	Green	—	EG4857-ND	2.57	2.30	1.98	TL2205EEBPGB
	DPDT	On-On	Red	—	EG4858-ND	1.72	1.54	1.33	TL2205EEBPRA
	DPDT	On-On	Red	—	EG4859-ND	2.57	2.30	1.98	TL2205EEBPRB
	DPDT	On-On	Blue	—	EG4860-ND	3.02	2.70	2.33	TL2205EECPBA
	DPDT	On-On	Red	—	EG4861-ND	1.72	1.54	1.33	TL2205EECPRA
	DPDT	On-Mom	Blue	—	EG4862-ND	3.02	2.70	2.33	TL2205OABPBA
	DPDT	On-Mom	Blue	—	EG4863-ND	3.90	3.48	3.00	TL2205OABPBB
	DPDT	On-Mom	Green	—	EG4864-ND	1.72	1.54	1.33	TL2205OABPGA
	DPDT	On-Mom	Green	—	EG4865-ND	2.57	2.30	1.98	TL2205OABPGB
	DPDT	On-Mom	Red	—	EG4866-ND	1.72	1.54	1.33	TL2205OABPRA
	DPDT	On-Mom	Red	—	EG4867-ND	2.57	2.30	1.98	TL2205OABPRB
	DPDT	On-Mom	Blue	—	EG4868-ND	3.02	2.70	2.33	TL2205OACPBA
	DPDT	On-Mom	Red	—	EG4869-ND	1.72	1.54	1.33	TL2205OACPRA

Pushbutton Switches

700 Series

Specifications: • Ratings: 1A @ 250VAC, 3A @ 120VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum

Materials: • Case: Diallyl phthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

Dimensions in Inch

Fig. 1

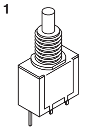

Fig. 2

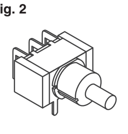

Fig. 3

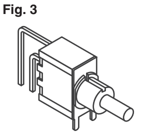

700 Series Cap

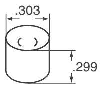

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each			E-Switch Part No.
						1	10	100	
1	DPDT	PCB	1/4-40NS	3A	EG2590-ND	7.24	6.47	5.57	700DP7B10M2QEH
	DPDT	PCB	1/4-40NS	0.4VA	EG2591-ND‡	7.66	6.84	5.90	700DP7B10M2REH
	SPDT	Solder Lug	1/4-40NS	3A	EG2592-ND	5.38	4.80	4.14	700SP7B10M1QEH
	SPDT	Solder Lug	1/4-40NS	0.4VA	EG2593-ND‡	5.70	5.09	4.39	700SP7B10M1REH
	SPDT	PCB	1/4-40NS	3A	EG2594-ND	5.38	4.80	4.14	700SP7B10M2QEH
	SPDT	PCB	1/4-40NS	0.4VA	EG2595-ND‡	5.70	5.09	4.39	700SP7B10M2REH
2	SPDT	PCB	Unthd.	3A	EG2596-ND	5.58	4.99	4.30	700SP7B20M6QE
3	SPDT	PCB	Unthd.	3A	EG2597-ND	5.58	4.99	4.30	700SP7B20M7QE
700 Series Caps									
Pushbutton Cap, .303” Round, Black for 700 Series					EG2598-ND	.25	.23	.20	700C1BLK
Pushbutton Cap, .303” Round, Green for 700 Series					EG2599-ND	.25	.23	.20	700C1GRN
Pushbutton Cap, .303” Round, Gray for 700 Series					EG2600-ND	.25	.23	.20	700C1GRY
Pushbutton Cap, .303” Round, Red for 700 Series					EG2601-ND	.25	.23	.20	700C1RED
Pushbutton Cap, .303” Round, White for 700 Series					EG2602-ND	.25	.23	.20	700C1WHT

‡ Gold plated copper alloy contacts

Pushbutton Switches

800, 800A and 800B Series

Specifications (*800 and 800A Series only*)**:** • Ratings: 1A @ 250VAC, 3A @ 20VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum

Materials: • Case: Diallylphthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

Dimensions in Inch

Fig. 1

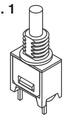

Fig. 2

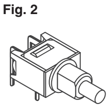

Fig. 3

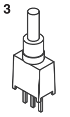

Fig. 4

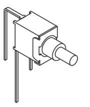

800 Series Cap

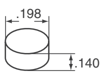

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each			E-Switch Part No.
						1	10	100	
Unsealed Pushbutton Switches									
1	SPST	PC Mount	10-48 Thd.	3A	EG2613-ND	3.26	2.91	2.51	800SP9B5M2QEH
	SPST	PC Mount	.173” Unthd.	0.4VA	EG2614-ND	3.41	3.05	2.63	800SP9B6M2RE
	SPST	PC Mount	.225” Unthd.	3A	EG2617-ND	4.66	4.17	3.59	800SP9B8M2QE
2	SPST	Right Angle PCB	.173” Unthd.	0.4VA	EG2615-ND	3.73	3.33	2.87	800SP9B6M6RE
	SPST	Right Angle PCB	.187” Unthd.	0.4VA	EG2616-ND	4.79	4.28	3.69	800SP9B7M6RE
	SPDT	Right Angle PCB	.173” Unthd.	0.4VA	EG2611-ND	5.00	4.46	3.85	800SP8B6M6RE
	SPDT	Right Angle PCB	.187” Unthd.	0.4VA	EG2612-ND	6.06	5.41	4.66	800SP8B7M6RE
Sealed Pushbutton Switches									
2	SPST	Right Angle PCB	.180” Unthd.	0.4VA	EG2608-ND	4.46	3.98	3.43	800AWSP9M6RE
	SPST	Right Angle PCB	.180” Unthd.	1A	EG2607-ND	4.26	3.80	3.28	800AWSP9M6QE
3	SPST	PC Mount	.180” Unthd.	1A	EG2605-ND	3.98	3.56	3.07	800AWSP9M2QE
	SPST	PC Mount	.180” Unthd.	0.4VA	EG2606-ND	4.18	3.73	3.22	800AWSP9M2RE
	SPDT	PC Mount	.180” Unthd.	1A	EG2603-ND	5.07	4.53	3.90	800AWSP8M2QE
	SPDT	PC Mount	.180” Unthd.	0.4VA	EG2604-ND	5.27	4.70	4.05	800AWSP8M2RE
4	SPST	Vert. Right Angle	.180” Unthd.	1A	EG4363-ND	4.26	3.80	3.28	800AWSP9M7QE
	SPST	Vert. Right Angle	.180” Unthd.	0.4VA	EG2609-ND	4.46	3.98	3.43	800AWSP9M7RE
800B Series Pushbutton Switches									
2	SPST	SMT	—	0.4VA	EG2610CT-ND†	7.10	5.69	5.12	800BWSP9SM6RE
	SPST	SMT	—	0.4VA	EG2610TR-ND‡	1657.25/500			800BWSP9SM6RE
800 Series Caps									
Switch Cap, Round, Black for .100” Plunger					EG2618-ND	.26	.24	.20	800C1BLK
Switch Cap, Round, White for .100” Plunger					EG2621-ND	.26	.24	.20	800C1WHT
Switch Cap, Round, Red for .100” Plunger					EG2620-ND	.26	.24	.20	800C1RED
Switch Cap, Round, Green for .100” Plunger					EG2619-ND	.26	.24	.20	800C1GRN

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! Illuminated Pushbutton Switches LP37 Series

Dimensions in mm

Mechanical Specifications: • Mechanical Life: 30,000 cycles • Force: 250 ±100 grams

Electrical Specifications: • Contact Resistance: 50mΩ (initial max.) • Insulation Resistance: 1000MΩ (min. @ 100VDC)

Environmental Specifications: • Operating and Storage Temperature Range: -30°C ~ 85°C

LED SPECIFICATIONS				
	Units	Green	Red	Yellow
Forward Current	mA	20	20	20
Forward Voltage @ 20mA	VDC	2.2 typ. ~ 2.6 max.	2.3 typ. ~ 2.6 max.	2.1 typ. ~ 2.6 max.
Luminous Intensity @ 20mA	mcd	50 typ.	13 typ.	30 typ.

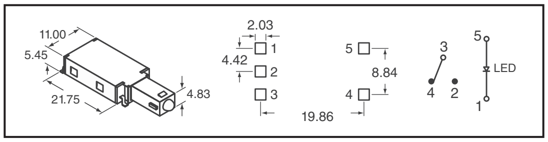

Circuit	Switching Function	Actuator Color	Termination	Rating (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 450	E-Switch Part No.
SPDT	On-Mom	Green	Gull Wing	.25 @ 50VDC	EG4848CT-ND	8.21	6.57	5.92	EG4848TR-ND	1724.63	LP37OACGG
SPDT	On-Mom	Red	Gull Wing	.25 @ 50VDC	EG4849CT-ND	8.21	6.57	5.92	EG4849TR-ND	1724.63	LP370ACGR
SPDT	On-Mom	Yellow	Gull Wing	.25 @ 50VDC	EG4850CT-ND	8.21	6.57	5.92	EG4850TR-ND	1724.63	LP37OACGY

Pushbutton Switches

RoHS COMPLIANT

PA4 and PR1 Series

The **PA4 Series** pushbutton switch features the industry standard 0.512" x 0.748" (13.0mm x 19.0mm) panel cutout, and high electrical ratings, and is available in illuminated and water resistant versions.

The **PR1 Series** pushbutton switch features a 25.0mm diameter cutout, glossy actuator, full illumination, and is available in one or two pole and momentary versions.

Dimensions in mm

Fig. 1

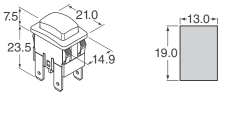

Fig. 2

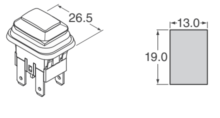

Fig. 3

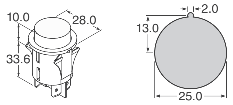

Fig.	Circuit	Switching Function	Actuator Color	Termination	Rating (A)	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	DPST	Off-Mom	Black	.189" QC	16	EG4687-ND	1.75	1.56	1.35	PA41EC1100
	DPST	On-Off	Illum. Red	.189" QC	16	EG4689-ND	2.41	2.15	1.85	PA412C1000-116
	DPST	On-Off	Illum. Green	.189" QC	16	EG4690-ND	2.67	2.39	2.06	PA412C1000-136
	DPST	On-Off	Black	.189" QC	16	EG4688-ND	1.74	1.55	1.34	PA412C1100
2	DPST	Off-Mom	Black	.189" QC	16	EG4691-ND	2.24	2.01	1.73	PA4R1EC1100
	DPST	On-Off	Black	.189" QC	16	EG4692-ND	2.08	1.86	1.61	PA4R12C1100
	DPST	On-Off	Illum. Red	.189" QC	16	EG4693-ND	2.44	2.18	1.88	PA4R12C1000-116
	DPST	On-Off	Illum. Green	.189" QC	16	EG4694-ND	2.70	2.41	2.08	PA4R12C1000-136
3	SPST	On-Off	Illum. Red	.250" QC	16	EG4698-ND	2.02	1.81	1.56	PR141C1000-116
	SPST	On-Off	Black	.250" QC	16	EG4696-ND	1.61	1.44	1.24	PR141C1100
	SPST	On-Off	Red	.250" QC	16	EG4695-ND	1.61	1.44	1.24	PR141C1900
	DPST	On-Off	White	.250" QC	16	EG4697-ND	1.84	1.65	1.42	PR142C1200
	SPST	Off-Mom	Red	.250" QC	16	EG4699-ND	1.61	1.44	1.24	PR144C1900
	DPST	Off-Mom	Black	.250" QC	16	EG4700-ND	1.84	1.65	1.42	PR14EC1100

Pushbutton Anti-Vandal Switches

RoHS COMPLIANT

Fig.	Circuit	Switching Function	Actuator Description	Termination	Rating (A)	Hole Size	Finish	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
					PV1 Series							
1	SPST	Off-Mom	Flat	Screw	2 @ 48VDC	19	Stainless Steel	EG4701-ND	9.64	8.61	7.42	PV1F640SS
	SPST	Off-Mom	Flat	Screw	2 @ 48VDC	19	Black	EG4702-ND	12.25	10.94	9.43	PV1F64011
	SPST	Off-Mom	Domed	Screw	2 @ 48VDC	19	Stainless Steel	EG4703-ND	9.64	8.61	7.42	PV1S640SS
	SPST	Off-Mom	Domed	Screw	2 @ 48VDC	19	Black	EG4704-ND	12.58	11.23	9.68	PV1S64011
					PV2 Series							
1	SPST	Off-Mom	Flat	Screw	2 @ 48VDC	16	Stainless Steel	EG4705-ND	8.99	8.02	6.92	PV2F640SS
	SPST	Off-Mom	Flat	Screw	2 @ 48VDC	16	Black	EG4706-ND	11.60	10.36	8.93	PV2F64011
	SPST	Off-Mom	Domed	Screw	2 @ 48VDC	16	Stainless Steel	EG4707-ND	8.99	8.02	6.92	PV2S640SS
	SPST	Off-Mom	Domed	Screw	2 @ 48VDC	16	Black	EG4708-ND	11.59	10.35	8.92	PV2S64011
					PV3 Series							
2	DPDT	On-On	Flat	Solder	2 @ 48VDC	16	Stainless Steel	EG4709-ND	18.76	16.74	14.43	PV3F2G0SS-311
	DPDT	On-Mom	Flat	Solder	2 @ 48VDC	16	Stainless Steel	EG4710-ND	16.80	15.00	12.93	PV3F2H0SS-331
	DPDT	On-Mom	Flat	Solder	2 @ 48VDC	16	Stainless Steel	EG4711-ND	16.80	15.00	12.93	PV3F2H0SS-341
	DPDT	On-On	High	Solder	2 @ 48VDC	16	Stainless Steel	EG4712-ND	16.02	14.30	12.33	PV3H2G0SS
					PV4 Series							
2	DPDT	On-Mom	Flat	Solder	2 @ 48VDC	19	Stainless Steel	EG4713-ND	25.42	22.68	19.55	PV4F2H0SS-341
	DPDT	On-On	Flat	Solder	2 @ 48VDC	19	Stainless Steel	EG4714-ND	28.67	25.58	22.05	PV4F2G0SS-341
	DPST	Off-(On)+On-(Off)	Flat	Solder	2 @ 48VDC	19	Stainless Steel	EG4715-ND	27.35	24.41	21.04	PV4F2Y0SS-341
	DPDT	On-Mom	Flat	Solder	2 @ 48VDC	19	Black	EG4716-ND	28.02	25.00	21.55	PV4F2H011-341
	DPDT	On-On	Flat	Solder	2 @ 48VDC	19	Black	EG4717-ND	31.27	27.90	24.05	PV4F2G011-341
	DPST	Off-(On)+On-(Off)	Flat	Solder	2 @ 48VDC	19	Black	EG4718-ND	29.97	26.74	23.05	PV4F2Y011-341
	DPST	Off-(On)+On-(Off)	Flat	Solder	2 @ 48VDC	19	Black	EG4719-ND	29.97	26.74	23.05	PV4F2Y011-311
	DPDT	On-On	Flat	Solder	2 @ 48VDC	19	Black	EG4720-ND	31.27	27.90	24.05	PV4F2G011-311
	DPDT	On-Mom	Flat	Solder	2 @ 48VDC	19	Black	EG4721-ND	28.02	25.00	21.55	PV4F2H011-311
					PV5 Series							
3	SPST	Off-Mom	Black	Screw	2 @ 48VDC	12	Black	EG4722-ND	5.73	5.12	4.41	PV5S64011
	SPST	Off-Mom	White	Screw	2 @ 48VDC	12	Black	EG4723-ND	5.73	5.12	4.41	PV5S64012
	SPST	Off-Mom	Yellow	Screw	2 @ 48VDC	12	Black	EG4724-ND	5.73	5.12	4.41	PV5S64016
	SPST	Off-Mom	Blue	Screw	2 @ 48VDC	12	Black	EG4725-ND	5.73	5.12	4.41	PV5S64017
	SPST	Off-Mom	Green	Screw	2 @ 48VDC	12	Black	EG4726-ND	5.73	5.12	4.41	PV5S64018
	SPST	Off-Mom	Red	Screw	2 @ 48VDC	12	Black	EG4727-ND	5.73	5.12	4.41	PV5S64019
	SPST	Off-Mom	Nickel	Screw	2 @ 48VDC	12	Nickel	EG4728-ND	7.17	6.40	5.52	PV5S640NN
	SPST	Off-Mom	Stainless Steel	Screw	2 @ 48VDC	12	Stainless Steel	EG4729-ND	10.29	9.19	7.92	PV5S640SS
					PV6 Series							
4	SPST	Off-Mom	Ring Illum. Red	Solder	2 @ 36VDC	16	Stainless Steel	EG4730-ND	16.28	14.53	12.53	PV6F240SS-311
	SPST	Off-Mom	Ring Illum. Green	Solder	2 @ 36VDC	16	Stainless Steel	EG4731-ND	16.28	14.53	12.53	PV6F240SS-331
	SPST	Off-Mom	Ring Illum. Blue	Solder	2 @ 36VDC	16	Stainless Steel	EG4732-ND	16.28	14.53	12.53	PV6F240SS-341
					PV7 Series							
5	DPST	Off-On+On-Off	Ring Illum. Red	Solder	2 @ 36VDC	22	Stainless Steel	EG4733-ND	32.57	29.06	25.05	PV7F2T0SS-311
	DPST	Off-On+On-Off	Ring Illum. Green	Solder	2 @ 36VDC	22	Stainless Steel	EG4734-ND	32.57	29.06	25.05	PV7F2T0SS-331
	DPST	Off-On+On-Off	Ring Illum. Blue	Solder	2 @ 36VDC	22	Stainless Steel	EG4735-ND	32.57	29.06	25.05	PV7F2T0SS-341
	DPST	Off-(On)+On-(Off)	Ring Illum. Red	Solder	2 @ 36VDC	22	Stainless Steel	EG4736-ND	29.31	26.16	22.55	PV7F2Y0SS-311
	DPST	Off-(On)+On-(Off)	Ring Illum. Green	Solder	2 @ 36VDC	22	Stainless Steel	EG4737-ND	29.31	26.16	22.55	PV7F2Y0SS-331
	DPST	Off-(On)+On-(Off)	Ring Illum. Blue	Solder	2 @ 36VDC	22	Stainless Steel	EG4738-ND	29.31	26.16	22.55	PV7F2Y0SS-341
					PV8 Series							
5	4PST	2POff-On/2POn-Off	Ring Illum. Red	Solder	2 @ 36VDC	25	Stainless Steel	EG4739-ND	37.12	33.12	28.55	PV8F2U0SS-311
	4PST	2POff-On/2POn-Off	Ring Illum. Green	Solder	2 @ 36VDC	25	Stainless Steel	EG4740-ND	37.12	33.12	28.55	PV8F2U0SS-331
	4PST	2POff-On/2POn-Off	Ring Illum. Blue	Solder	2 @ 36VDC	25	Stainless Steel	EG4741-ND	37.12	33.12	28.55	PV8F2U0SS-341
	4PST	2POff-(On)/2POn-(Off)	Ring Illum. Red	Solder	2 @ 36VDC	25	Stainless Steel	EG4742-ND	33.87	30.22	26.05	PV8F2V0SS-311
	4PST	2POff-(On)/2POn-(Off)	Ring Illum. Green	Solder	2 @ 36VDC	25	Stainless Steel	EG4743-ND	33.87	30.22	26.05	PV8F2V0SS-331
	4PST	2POff-(On)/2POn-(Off)	Ring Illum. Blue	Solder	2 @ 36VDC	25	Stainless Steel	EG4744-ND	33.87	30.22	26.05	PV8F2V0SS-341

Fig. 1

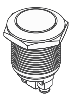

Fig. 2

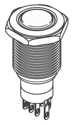

Fig. 3

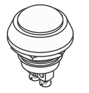

Fig. 4

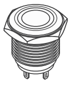

Fig. 5

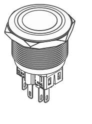

Momentary Pushbutton Switches

5500 Narrow and 5511 Wide Body Series

These miniature, momentary switches have a crisp tactile feel and are available in a wide range of colors, available in two widths: *the 5500* .47" (12mm) wide and *the 5511* .67" (17mm) wide, meet all ESD protection requirements and are available with or without LED **Operating Travel:** 1.8mm **Function:** Momentary SPDT **Contact Bounce:** <5m second **Operating Life:** 5 x 10^5 Cycles **Operating Force:** <200 gf **Voltage Rating:** 12V **Current Rating:** 50mA **Contact Resistance:** <50mΩ **LED Ratings:** 2.2v@30mA

Fig. 1 — Narrow Body

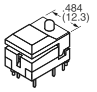

Fig. 2 — Wide Body

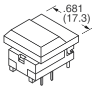

Dimensions - Inch (mm)

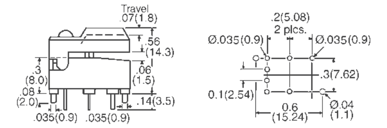

(Above PCB is for Two LED Series)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	5500 Series - Narrow Body					
1	SPDT, Black Cap, no LED	EG1701-ND	4.40	3.93	3.39	5501M1BLKX
	SPDT, Grey Cap, no LED	EG1702-ND	4.40	3.93	3.39	5501MGRYX
	SPDT, Red Cap, no LED	EG1704-ND	4.40	3.93	3.39	5501MREDX
	SPDT, White Cap, no LED	EG1708-ND	4.40	3.93	3.39	5501MWHTX
	SPDT, Black Cap, with Red LED	EG17151-ND	5.75	5.13	4.42	5501MBLKRED
	SPDT, Black Cap, with Green LED	EG17171-ND	5.75	5.13	4.42	5501MBLKGRN
	SPDT, Black Cap, with Yellow LED	EG4608-ND	5.75	5.13	4.42	5501MBLKYEL
	SPDT, Grey Cap, with Red LED	EG17152-ND	5.75	5.13	4.42	5501MGRYRED
	SPDT, Grey Cap, with Green LED	EG17172-ND	5.75	5.13	4.42	5501MGRYGRN
	SPDT, Red Cap, with Red LED	EG17155-ND	5.75	5.13	4.42	5501MREDRED
	SPDT, White Cap, with Red LED	EG17158-ND	5.75	5.13	4.42	5501MWHTRED
	SPDT, White Cap, with Green LED	EG17178-ND	5.75	5.13	4.42	5501MWHTGRN
	SPDT, Black Cap, with Red and Green LED	EG171571-ND	6.33	5.65	4.87	5501MBLKREDGRN
	5511 Series - Wide Body					
2	SPDT, Black Cap, no LED	EG1709-ND	4.40	3.93	3.39	5511MBLKX
	SPDT, Grey Cap, no LED	EG1710-ND	4.40	3.93	3.39	5511MGRYX
	SPDT, Blue Cap, no LED	EG1711-ND	4.40	3.93	3.39	5511MBLUX
	SPDT, Red Cap, no LED	EG1712-ND	4.40	3.93	3.39	5511MREDX
	SPDT, White Cap, no LED	EG1714-ND	4.40	3.93	3.39	5511MWHTX
	SPDT, Black Cap, with Red LED	EG1715-ND	5.75	5.13	4.42	5511MBLKRED
	SPDT, Black Cap, with Green LED	EG1719-ND	5.75	5.13	4.42	5511MBLKGRN
	SPDT, Grey Cap, with Red LED	EG1716-ND	5.75	5.13	4.42	5511MGRYRED
	SPDT, Grey Cap, with Green LED	EG1720-ND	5.75	5.13	4.42	5511MGRYGRN
	SPDT, Red Cap, with Red LED	EG1717-ND	5.75	5.13	4.42	5511MBLURED
	SPDT, White Cap, with Red LED	EG1718-ND	5.75	5.13	4.42	5511MWHTRED
	SPDT, White Cap, with Green LED	EG1722-ND	5.75	5.13	4.42	5511MWHTGRN
	SPDT, Black Cap, with Red and Green LED	EG1723-ND	6.33	5.65	4.87	5511MBLKREDGRN
	SPDT, Grey Cap, with Red and Green LED	EG1724-ND	6.33	5.65	4.87	5511MGRYREDGRN

Momentary Pushbutton Switches

Dimensions - Inch (mm)

Fig. 1

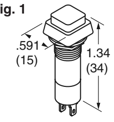

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49" (12.4mm) Hardware Included

Fig. 2

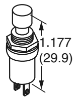

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .28" (7.2mm) Hardware Included

Fig. 3

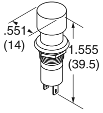

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49" (12.4mm) Hardware Included

Fig. 4

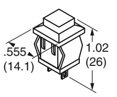

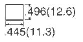

Panel Cutout

Circuit: SPST (Momentary On) **Rating:** 1A 125VAC **Initial Contact Resistance:** ≤ 20mΩ

Fig. 5

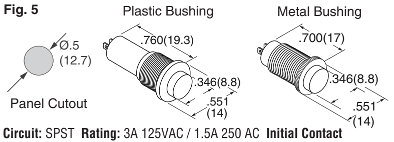

Circuit: SPST **Rating:** 3A 125VAC / 1.5A 250 AC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .50" (12.7mm) Hardware Included

Fig. 6

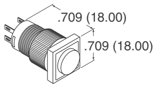

Circuit: SPST **Rating:** 3A 125VAC /1.5A 250VDC **Hole Cutout:** .62" (15.75mm) Hardware Included **Rating:** Red; 1.8V@20mA, Yellow & Green; 2.1V@20mA

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Red, Cap .59" (15mm) Sq., N/O	EG2005-ND	2.22	1.98	1.71	PS1023ARED
	Black, Cap .59" (15mm) Sq., N/O	EG2001-ND	2.22	1.98	1.71	PS1023ABLK
2	Red, Cap .24" (6mm) Dia., N/O	EG2015-ND	1.78	1.59	1.37	PS1024ARED
	Black, Cap .24" (6mm) Dia., N/O	EG2011-ND	1.78	1.59	1.37	PS1024ABLK
	Red, Cap .39" (10mm) Dia., N/O	EG2025-ND	1.69	1.51	1.30	PS1024ALRED
	Black, Cap .39" (10mm) Dia., N/O	EG2021-ND	1.69	1.51	1.30	PS1024ALBLK
3	Red, Cap .55" (14mm) Dia., N/O	EG2035-ND	2.51	2.24	1.93	PS1040ARED
	Black, Cap .55" (14mm) Dia., N/O	EG2031-ND	2.51	2.24	1.93	PS1040ABLK
4	Red, Cap .55" (14mm) Sq., N/O	EG2045-ND	1.83	1.63	1.41	PS1057ARED
	Black, Cap .55" (14mm) Sq., N/O	EG2041-ND	1.83	1.63	1.41	PS1057ABLK
5	Black Cap, Plastic Bushing, N/O	EG1900-ND	2.44	2.18	1.88	RP3502ABLK
	Black Cap, Plastic Bushing, N/C	EG1929-ND	2.76	2.47	2.13	RP3502BBLK
	Red Cap, Plastic Bushing, N/O	EG1930-ND	2.44	2.18	1.88	RP3502ARED
	Red Cap, Plastic Bushing, N/C	EG1931-ND	2.76	2.47	2.13	RP3502BRED
	Black Cap, Metal Bushing, N/O	EG1932-ND	3.77	3.37	2.90	RP3502MABLK
	Black Cap, Metal Bushing, N/C	EG1933-ND	4.23	3.78	3.26	RP3502MBBLK
	Green Cap, Metal Bushing, N/O	EG1934-ND	3.77	3.37	2.90	RP3502MAGRN
	Green Cap, Metal Bushing, N/C	EG1935-ND	4.23	3.78	3.26	RP3502MBGRN
	Yellow Cap, Metal Bushing, N/O	EG1936-ND	3.77	3.37	2.90	RP3502MAYEL
	Yellow Cap, Metal Bushing, N/C	EG1937-ND	4.23	3.78	3.26	RP3502MBYEL
	Red Cap, Metal Bushing, N/O	EG1938-ND	3.77	3.37	2.90	RP3502MARED
	Red Cap, Metal Bushing, N/C	EG1939-ND	4.23	3.78	3.26	RP3502MBRED
6	Illuminating Red LED Alt Action	EG2543-ND	7.86	7.02	6.05	RP3508BBLKREDREDNS
	Illuminating Green LED Alt Action	EG2544-ND	7.86	7.02	6.05	RP3508BBLKGRNGRNNS
	Illuminating Green LED Momentary	EG4669-ND	7.86	7.02	6.05	RP3508ABLKGRNGRNNS
	Illuminating Red LED Momentary	EG4670-ND	7.86	7.02	6.05	RP3508ABLKREDREDNS
	Illuminating Yellow LED Momentary	EG4671-ND	7.86	7.02	6.05	RP3508ABLKYELYELNS

Momentary Pushbutton Switches

320 Series – Sold With Caps

Fig. 1

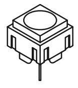

Fig. 2

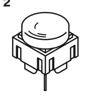

Fig. 3

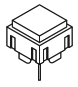

Fig. 4

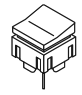

320 Series switches are being used in a variety of applications in a great number of industries such as: Instrumentation, Test Equipment, Telecommunications, Audio Visual, and Computers **Specifications:** • **Travel:** .028" (.7mm) • **Operating Force:** 120 grams • **Type Of Contact:** SPST • **Contact Rating:** 25mA/50V (DC) • **Initial Resistance:** 50mΩ • **Life:** 1 X 10^6 switching cycles • **Snap Time:** Closing: <50μs; Opening: <200μs • **Materials:** Housing: PC-CF; Knob: ABS or equivalent; Contacts (Fixed): CuZn Ag (gold available); Dome Contact: CrNi Au

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Square, Recessed, Black	EG1301-ND	1.73	1.55	1.34	320E11BLK
	Square, Recessed, Grey	EG1303-ND	1.73	1.55	1.34	320E11GRY
	Square, Recessed, Red	EG1305-ND	1.73	1.55	1.34	320E11RED
	Square, Recessed, White	EG1308-ND	1.73	1.55	1.34	320E11WHT
	Square , Recessed, Yellow	EG2549-ND	1.73	1.55	1.34	320E11YEL
	Square, Recessed, Blue	EG2550-ND	1.73	1.55	1.34	320E11BLU
	Square, Recessed, Green	EG2551-ND	1.73	1.55	1.34	320E11GRN
2	Standard Round, Black	EG1311-ND	2.18	1.95	1.68	320.02E11.08BLK
	Standard Round, Grey	EG1312-ND	2.18	1.95	1.68	320.02E11.08GRY
	Standard Round, Red	EG1315-ND	2.18	1.95	1.68	320.02E11.08RED
	Standard Round, White	EG1318-ND	2.18	1.95	1.68	320.02E11.08WHT
	Standard Round, Yellow	EG2552-ND	2.18	1.95	1.68	320.02E11.08YEL
	Standard Round, Blue	EG2553-ND	2.18	1.95	1.68	320.02E11.08BLU
	Standard Round, Green	EG2554-ND	2.18	1.95	1.68	320.02E11.08GRN
	Large Round, Black	EG2568-ND	2.29	2.05	1.77	320.02E11.09BLK
	Large Round, Grey	EG2569-ND	2.29	2.05	1.77	320.02E11.09GRY
	Large Round, Yellow	EG2570-ND	2.29	2.05	1.77	320.02E11.09YEL
	Large Round, Blue	EG2571-ND	2.29	2.05	1.77	320.02E11.09BLU
	Large Round, Red	EG2572-ND	2.29	2.05	1.77	320.02E11.09RED
	Large Round, Green	EG2573-ND	2.29	2.05	1.77	320.02E11.09GRN
	Large Round, White	EG2574-ND	2.29	2.05	1.77	320.02E11.09WHT
3	Flat Square, Black	EG1321-ND	1.73	1.55	1.34	320.01E11BLK
	Flat Square, Grey	EG1322-ND	1.73	1.55	1.34	320.01E11GRY
	Flat Square, Red	EG1325-ND	1.73	1.55	1.34	320.01E11RED
	Flat Square, White	EG1328-ND	1.73	1.55	1.34	320.01E11WHT
	Flat Square, Yellow	EG2555-ND	1.73	1.55	1.34	320.01E11YEL
	Flat Square, Blue	EG2556-ND	1.73	1.55	1.34	320.01E11BLU
	Flat Square, Green	EG2557-ND	1.73	1.55	1.34	320.01E11GRN
4	Tilted Square, Red	EG1345-ND	1.35	1.24	1.08	320.22E11RED
	Tilted Square, Green	EG2560-ND	1.35	1.24	1.08	320.22E11GRN
	Tilted Rectangular, White	EG2567-ND	1.79	1.61	1.38	320.21E11WHT
—	12 mm Finger Recessed Cap, Black	EG2575-ND	2.15	1.92	1.65	320.02E11.094BLK
	12 mm Finger Recessed Cap, Grey	EG2576-ND	2.15	1.92	1.65	320.02E11.094GRY
	Momentary Black Short (Uses JN Caps)	EG2548-ND	1.65	1.47	1.27	320.02E11BLK
	Momentary Black Tall (Uses JN Caps)	EG4366-ND	1.69	1.51	1.30	320.03E11BLK

Illuminated Panel Mount Pushbutton Switches

Dimensions in mm

Mechanical Specifications: • Mechanical Life: 30,000 cycles • Electrical Life: 10,000 cycles • Approvals: UL, VDE **Electrical Specifications:** • Contact Rating: 15A@250VAC UL listed, 10A@125VAC VDE listed • Contact Resistance: <20mΩ • Insulation Resistance: 1,000MΩ min. • Dielectric Strength: 1,500V **Environmental Specifications:** • Operating Temperature: -10°C ~ 55°C

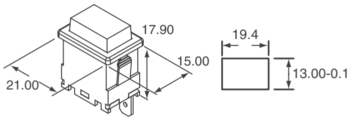

Circuit	Switching Function	Lamp Voltage	Actuator Color	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
SPST	On-Off	No Lamp	Black	EG4397-ND	2.10	1.88	1.62	PB1973ABLKBLKEF0
SPST	On-Off	12VDC	Green	EG4398-ND	2.69	2.41	2.08	PB1973CBLKGILEF3
SPST	On-Off	125VAC	Red	EG4399-ND	2.69	2.41	2.08	PB1973CBLKRILEF1
SPST	Mom-Off	12VDC	Green	EG4400-ND	3.54	3.16	2.73	PB1973DBLKGILEF3
DPST	On-Off	125VAC	Red	EG4401-ND	3.54	3.16	2.73	PB1973GBLKRILEF1
DPST	Mom-Off	12VDC	Green	EG4402-ND	3.54	3.16	2.73	PB1973HBLKGILEF3

APEM Pushbutton Switches 300, 400, 9000, MPB Series

Fig	Circuit	Current Rating	Thread Size	Termination	Dimensions – Inch A	B	C	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
300 Series - Miniature												
1	SPST-NO	1A	1/4-40	PCB	0.178	0.429	1.078	679-1000-ND	5.61	5.12	4.62	301CQE
	SPST-NO	.4VA	1/4-40	Solder Lug	0.178	0.429	1.078	679-1001-ND	5.44	4.96	4.48	301ZBE
	SPST-NO	.4VA	1/4-40	PCB	0.146	0.319	0.936	679-1002-ND	5.58	5.09	4.60	302CBE
	SPST-NO	.4VA	1/4-40	Solder Lug	0.146	0.319	0.936	679-1003-ND	5.44	4.96	4.48	302ZBE
	SPST-NO	.4VA	1/4-40	Solder Lug	0.178	0.429	1.078	679-1004-ND	5.44	4.96	4.48	305ZBE
2	SPST-NO	.4VA	5/16-24	PCB	0.351	0.787	1.608	679-1013-ND	7.96	7.26	6.56	306CBE
	SPST-NO	1A	5/16-24	PCB	0.351	0.787	1.608	679-1014-ND	7.96	7.26	6.56	306CQE
	SPST-NO	.4VA	5/16-24	Solder Lug	0.351	0.787	1.608	679-1015-ND	8.98	8.19	7.40	306ZBE
400 Series - Miniature												
3	On-Off	1A	1/4-40	PCB	0.208	0.469	1.303	679-1016-ND	6.77	6.17	5.58	401CQE
	On-Off	.4VA	1/4-40	Solder Lug	0.208	0.469	1.303	679-1017-ND	6.60	6.02	5.44	401ZBE
	On-Off	1A	1/4-40	Solder Lug	0.208	0.469	1.303	679-1018-ND	7.45	6.79	6.14	401ZQE
	SPST-NO	.4VA	1/4-40	Solder Lug	0.205	0.469	1.303	679-1019-ND	7.45	6.79	6.14	402ZBE
	SPST-NO	1A	1/4-40	Solder Lug	0.205	0.469	1.303	679-1020-ND	7.45	6.79	6.14	402ZQE
9000 Series - Momentary												
1	SPST-NO	100mA	M4	PCB	0.137	0.240	0.691	679-1006-ND	3.16	2.89	2.61	9133CD
	SPST-NC	100mA	M4	PCB	0.137	0.314	0.765	679-1007-ND	3.98	3.63	3.28	9232CD
	SPST-NO	100mA	M4	PCB	0.137	0.240	0.765	679-1008-ND	3.98	3.63	3.28	9233CD
	SPST-NO	100mA	M4	PCB	0.137	0.240	0.762	679-1009-ND	3.16	2.89	2.61	9233NCD
	SPST-NC	100mA	M4	Solder Lug	0.137	0.240	0.687	679-1010-ND	3.88	3.54	3.20	9532CD
	SPST-NO	100mA	M4	Solder Lug	0.137	0.314	0.687	679-1011-ND	3.74	3.41	3.08	9533CD
	SPST-NO	100mA	M4	Solder Lug	0.137	0.314	0.613	679-1012-ND	3.16	2.89	2.61	9533NCD
4	SPST-NC	1A	1/4-40	PCB	0.236	0.466	1.156	679-1025-ND	5.13	4.69	4.23	9432AB
	SPST-NC	100mA	1/4-40	PCB	0.236	0.466	1.156	679-1026-ND	5.20	4.75	4.29	9432CDB
	SPDT	100mA	1/4-40	PCB	0.236	0.466	1.156	679-1027-ND	6.43	5.86	5.30	9435CDB
	SPST-NO	1A	1/4-40	Solder Lug	0.236	0.334	1.041	679-1028-ND	4.11	3.76	3.39	9633NAB
	SPST-NO	100mA	1/4-40	Solder Lug	0.236	0.334	1.041	679-1029-ND	4.18	3.82	3.45	9633NCDB
	SPDT	1A	1/4-40	Solder Lug	0.236	0.440	1.155	679-1030-ND	6.77	6.17	5.58	9635AB
MPB Series - Momentary												
5	SPST-NO	300mA	M7 Blk Cap	Solder Lug	0.520	0.236	1.095	679-1021-ND	2.18	1.99	1.80	MPB11102
	SPST-NO	300mA	M7 Red Cap	Solder Lug	0.520	0.236	1.095	679-1022-ND	2.18	1.99	1.80	MPB11106
	SPST-NC	300mA	M7 Blk Cap	Solder Lug	0.472	0.236	1.189	679-1023-ND	2.35	2.14	1.94	MPB11402
	SPST-NC	300mA	M7 Red Cap	Solder Lug	0.472	0.236	1.189	679-1024-ND	2.35	2.14	1.94	MPB11406
Accessories												
Pushbutton Cap, Black, .25” Diameter for 300 and 400 Series								679-1031-ND	.99	.90	.82	A235-2
Pushbutton Cap, Red, .25” Diameter for 300 and 400 Series								679-1032-ND	.99	.90	.82	A235-6
Pushbutton Cap, Black, 5mm Diameter for 9000 Series								679-1033-ND	.27	.25	.23	U902
Pushbutton Cap, Red, 5mm Diameter for 9000 Series								679-1034-ND	.27	.25	.23	U906
Pushbutton Cap, Black, 8mm Diameter for 9000 Series								679-1035-ND	.31	.28	.26	U1142
Pushbutton Cap, Red, 8mm Diameter for 9000 Series								679-1036-ND	.31	.28	.26	U1146

Fig. 1

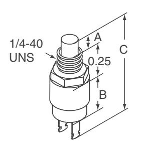

Fig. 2

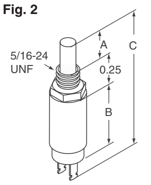

Fig. 3

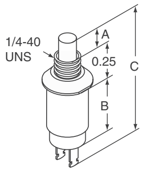

Fig. 4

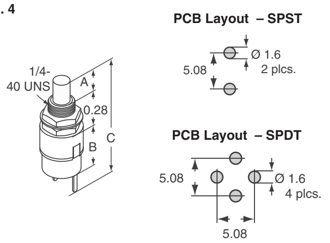

Fig. 5

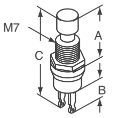

Grayhill Miniature Pushbutton Switches

Grayhill's miniature pushbutton switches are PCB or panel mounted for compact, low-profile, behind-panel applications. Series 30 and 39 switches are a reliable and economical solution with a large selection of shapes and sizes to fit all designs. Operating temperature is -40°C ~ 85°C. Optional caps work with all Series 30 and 39 switches except 39-101. Fasten button with cyanoacrylate adhesive.

Fig. 1

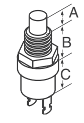

Fig. 2

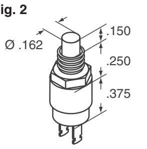

Fig. 3

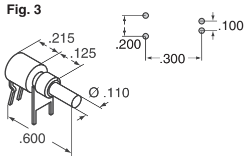

Fig. 4

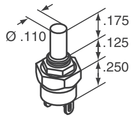

Fig. 5

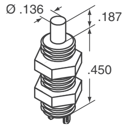

Fig.	Circuit	Current Rating	Button Color	Thread Size	Dimensions – Inch A	B	C	Digi-Key Part No.	Price Each 1	100	Grayhill Part No.
1	SPST-NO	1A	Black	15/32-32	.160	.375	.668	GH1359-ND	5.53	4.15	10-09
	SPST-NO	250mA	Red	5/16-32	.146	.250	.476	GH1361-ND	7.53	5.65	23-1
	SPST-NO	1A	Red	1/4-32	.150	.250	.370	GH1362-ND	2.70	2.03	30-1
	SPST-NO	1A	Black	1/4-32	.150	.250	.370	GH1365-ND	2.70	2.03	30-3
	SPST-NO	5A	Black	1/4-32	.150	.250	.370	GH1358-ND	2.82	2.12	30-3UL
	SPST-NO	1A	Red	1/4-32	.150	.250	.455	GH1363-ND	3.36	2.53	30-15
	SPST-NO	150mA	Black	1/4-32	.150	.250	.370	GH1367-ND	1.93	1.45	30-601 BLK
	SPST-NO	150mA	Red	1/4-32	.150	.250	.370	GH1368-ND	1.93	1.45	30-601 RED
	SPST-NO	500mA	Red	8-40	.175	.125	.215	GH1344-ND	3.90	2.93	39-1
	SPST-NC	250mA	Black	8-40	.175	.125	.390	GH1346-ND	6.04	4.53	39-2
	SPST-NO	500mA	Black	8-40	.175	.125	.215	GH1345-ND	3.91	2.93	39-3
	SPST-NO	150mA	Red	8-40	.175	.125	.215	GH1350-ND	3.24	2.43	39-401 RED
	SPST-NO	150mA	Black	8-40	.175	.125	.215	GH1349-ND	3.24	2.43	39-401 BLK
	SPST-NO	1A	Red	15/32-32	.160	.375	.668	GH1360-ND	5.34	4.01	4001
2	SPST-NC	1A	Black	1/4-32	—	—	—	GH1364-ND	3.03	2.28	30-2
	SPST-NC	1A	Red	1/4-32	—	—	—	GH1366-ND	3.03	2.28	30-6
3	SPST-NO	150mA	Red	—	—	—	—	GH1351-ND	5.17	3.88	39-501 RED
	SPST-NO	150mA	Black	—	—	—	—	GH1352-ND	5.17	3.88	39-501 BLK
4	SPST-NO	500mA	Red	8-40	—	—	—	GH1347-ND	7.30	5.48	39-351 RED
	SPST-NO	500mA	Black	8-40	—	—	—	GH1348-ND	7.30	5.48	39-351 BLK
5	SPST-NO	500mA	Nat. Nylon	5/16-32	—	—	—	GH1369-ND	8.50	6.38	39-101
Pushbutton Cap, Red, .25” Diameter for Series 30 and 39								GH1355-ND	.37	.28	30B1012-5
Pushbutton Cap, Black, .25” Diameter for Series 30 and 39								GH1357-ND	.37	.28	30B1012-9
Pushbutton Cap, White, .25” Diameter for Series 30 and 39								GH1356-ND	.40	.31	30B1012-8

NKK SWITCHES Pushbutton Switches

SB Series: • Contact Resistance: 10 milliohms maximum • Insulation Resistance: 200 megohms minimum @ 500V DC • Dieletric Strength: 1,000V AC minimum • Electrical Life: 10,000 operations minimum • Operating Force: 4.90N • Operating Temperature Range: -10°C ~ 70°C **FB Series:** • Contact Resistance: 30 milliohms maximum • Insulation Resistance: 100 megohms minimum @ 500V DC • Dielectric Strength: 1,000V AC minimum • Electrical Life: 50,000 operations minimum • Nominal Operating Force: 2.16N • Operating Temperature Range: -10°C ~ 70°C

Fig.	Circuit	Switching Function	Plunger Color	Termination	Bushing	Current Rating @(125VAC)	Digi-Key Part No.	Pricing 1	25	100	NKK Part No.
SB Series Momentary Pushbuttons											
1	SPST	Off-Mom	Black	Solder Lug	15/32 – 32	3A	360-2300-ND	4.82	75.25	275.20	SB4011NOH-RO
	SPST	Off-Mom	Red	Solder Lug	15/32 – 32	3A	360-2301-ND	4.82	75.25	275.20	SB4011NOHC-RO
	SPST	On-Mom	Black	Solder Lug	15/32 – 32	3A	360-2302-ND	4.82	75.25	275.20	SB4011NCH-RO
	SPST	On-Mom	Red	Solder Lug	15/32 – 32	3A	360-2303-ND	4.82	75.25	275.20	SB4011NCHC-RO
FB Series Momentary Pushbuttons											
2	SPST	Off-Mom	—	Solder Lug	M5 P0.5	500mA	360-2307-ND	4.23	65.70	237.98	FB15ANEP2
SB Accessories											
Switch Cap, .394" Black							360-2304-ND	.83	10.35	35.10	AT422A
Switch Cap, .394" Red							360-2306-ND	.83	10.35	35.10	AT422C

Note: FB Series PB's use MB2400 Series Caps; AT475 Series or AT496 Series Caps

Fig. 1

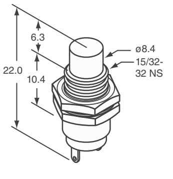

Fig. 2

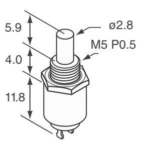

NKK SWITCHES

Pushbutton Switches

Bushings

Dimensions in Inches (mm)

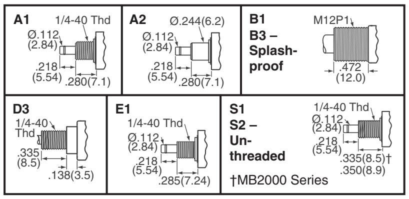

MB2000 Series: Guide interlocked with actuator block prevents window locking and maintains correct plunger alignment to assure contact stability. Employs an over-center actuator mechanism, which diminishes sparking and increases operating life in AC circuits. • **Contact Resistance:** 10 milliohms maximum for silver: 20 milliohms maximum for gold • **Insulation Resistance:** 1,000V megohms minimum @ 500V DC • **Mechanical Life:** 50,000 operations minimum for splashproof models 100,000 for all other models **MB2400 Series:** Anti-jamming design protects contacts from damage due to excessive downward force on the actuator. Stainless steel frame resists corrosion. • **Contact Resistance:** 20 milliohms maximum for silver: 30 milliohms maximum for gold • **Insulation Resistance:** 1,000 megohms minimum @ 500V AC • **Mechanical Life:** 200,000 operations minimum • **Operating Temperature Range:** -30° ~ 85°C • **Cleaning:** These devices are not process sealed. Hand clean locally.

Contact Material Options
W= 3A @ 125 VAC
G = 0.4VA max @ 28V AC/DC max
MB2000 Series W = 6A @125VAC

Fig.	Circuit	Switching Function	Termination	Bushing	Contact Material	Digi-Key Part No.	Price Each			NKK Part No.
							1	25	100	
MB2000 Series — Miniature Pushbuttons With .394" Black Cap										
1	SPDT	On-Mom	Solder Lug	S1	W	360-2165-ND	6.14	4.09	3.66	MB2011SS1W01-CA-RO
	SPDT	On Mom	PCB	S1	W	360-2166-ND	6.29	4.19	3.76	MB2011SS1W03-CA-RO
	SPDT	On-Mom	Solder Lug	D3	W	360-2170-ND	7.35	5.00	4.50	MB2011SD3W01-CA-RO
	SPDT	On-On	Solder Lug	S1	W	360-2171-ND	6.34	4.23	3.79	MB2065SS1W01-CA-RO
	SPDT	On-On	PCB	S1	W	360-2190-ND	6.25	4.33	3.83	MB2065SS1W03-CA-RO
	DPDT	On-Mom	Solder Lug	S1	W	360-2176-ND	7.75	5.27	4.65	MB2061SS1W01-CA-RO
	DPDT	On-On	Solder Lug	S1	W	360-2177-ND	7.87	5.58	4.92	MB2085SS1W01-CA-RO
	4PDT	On-Mom	Solder Lug	S1	W	360-2178-ND	11.75	8.51	7.57	MB2181SS1W01-CA-RO
	4PDT	On-On	Solder Lug	S1	W	360-2179-ND	12.20	8.84	7.86	MB2185SS1W01-CA-RO
2	SPDT	On- Mom	Bracket PCB	S2	W	360-2169-ND	6.30	4.36	3.86	MB2011SS2W13-CA-RO
3	SPDT	On-Mom	Right Angle PCB	S2	G	360-2167-ND	7.15	4.87	4.38	MB2011SS2G30-CA-RO
	SPDT	On-Mom	Right Angle PCB	S1	W	360-2168-ND	6.60	4.57	4.04	MB2011SS1W30-CA-RO
	SPDT	On-On	Right Angle PCB	S1	W	360-2191-ND	6.80	4.71	4.17	MB2065SS1W30-CA-RO
	SPDT	On-On	Right Angle PCB	S2	W	360-2192-ND	6.80	4.71	4.17	MB2065SS2W30-CA-RO
4	SPDT	On-On	Vertical PCB	S2	W	360-2175-ND	7.05	4.80	4.32	MB2065SS2W40-CA-RO
5	SPDT	On-Mom	Solder Lug	B1	W	360-2180-ND	7.97	5.65	4.98	MB2011SB1W01-DA-RO
	SPDT	On-Mom	Solder Lug	B3	W	360-2181-ND	9.07	6.24	5.86	MB2011SB3W01-DA-RO
	SPDT	On-On	Solder Lug	B1	W	360-2182-ND	8.16	5.78	5.10	MB2065SB1W01-DA-RO
MB2000 Accessories										
Waterproof Boot for Momentary 1/4 - 40NS						360-2184-ND	3.71	2.31	2.09	AT4041H
Waterproof Boot for Alternate 1/4 - 40NS						360-2185-ND	3.71	2.31	2.09	AT4042H
Waterproof Boot M12 Thread						360-2186-ND	4.84	3.08	2.82	AT4043
MB2400 Series — Snap - Action Miniature Pushbuttons										
1	SPDT	On-Mom	Solder Lug	E1	W	360-2139-ND	5.67	3.78	3.38	MB2411E1W01-RO
	SPDT	On-Mom	Solder Lug	E1	G	360-2140-ND	6.14	4.09	3.66	MB2411E1G01-RO
	SPDT	On-Mom	Solder Lug	S1	W	360-2141-ND	5.67	3.78	3.38	MB2411S1W01-RO
	SPDT	On-Mom	PCB	A1	W	360-2142-ND	5.88	3.91	3.51	MB2411A1W03-RO
	SPDT	On-Mom	PCB	E1	W	360-2143-ND	5.88	3.91	3.51	MB2411E1W03-RO
	SPDT	On-Mom	PCB	E1	G	360-2144-ND	6.34	4.23	3.79	MB2411E1G03-RO
	DPDT	On-Mom	Solder Lug	E1	W	360-2152-ND	7.50	5.10	4.50	MB2461E1W01-RO
	DPDT	On-Mom	Solder Lug	E1	G	360-2153-ND	8.02	5.68	5.01	MB2461E1G01-RO
	DPDT	On-Mom	PCB	E1	G	360-2154-ND	8.35	5.92	5.22	MB2461E1G03-RO
2	SPDT	On-Mom	Bracket PCB	A2	W	360-2145-ND	6.08	4.05	3.63	MB2411A2W13-RO
	SPDT	On-Mom	Bracket PCB	A2	G	360-2146-ND	6.30	4.36	3.86	MB2411A2G13-RO
3	SPDT	On-Mom	Right Angle PCB	A2	W	360-2147-ND	6.30	4.36	3.86	MB2411A2W30-RO
	SPDT	On-Mom	Right Angle PCB	A2	G	360-2148-ND	6.75	4.68	4.14	MB2411A2G30-RO
4	SPDT	On-Mom	Vertical PCB	A2	W	360-2149-ND	6.50	4.50	3.98	MB2411A2W40-RO
	SPDT	On-Mom	Vertical PCB	A2	G	360-2150-ND	6.95	4.81	4.26	MB2411A2G40-RO
	SPDT	On-Mom	Vertical PCB	A1	G	360-2151-ND	6.95	4.81	4.26	MB2411A1G40-RO
6	SPDT	On-Mom	Solder Lug	Blk Cap	W	360-2155-ND	7.65	5.21	4.59	MB2411JW01-A-1A
	SPDT	On-Mom	Solder Lug	Blk Cap	G	360-2156-ND	8.10	5.51	4.86	MB2411JG01-A-1A
	DPDT	On-Mom	Solder Lug	Blk Cap	W	360-2157-ND	9.31	6.41	5.82	MB2461JW01-A-1A
	DPDT	On-Mom	Solder Lug	Blk Cap	G	360-2158-ND	9.71	6.88	6.33	MB2461JG01-A-1A
MB2400 Accessories										
Switch Cap, .201" Black						360-2159-ND	.60	.30	.24	AT475A
Switch Cap, .201" White						360-2160-ND	.60	.30	.24	AT475B
Switch Cap, .201" Red						360-2161-ND	.60	.30	.24	AT475C
Switch Cap, .295" Black						360-2162-ND	.69	.34	.28	AT496A
Switch Cap, .295" White						360-2163-ND	.69	.34	.28	AT496B
Switch Cap, .295" Red						360-2164-ND	.69	.34	.28	AT496C

Fig. 1

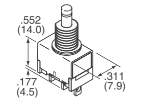

Fig. 2

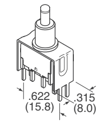

Fig. 3

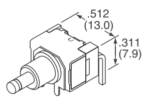

Fig. 4

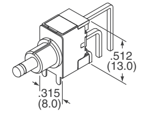

Fig. 5

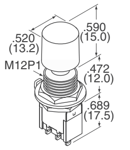

Fig. 6

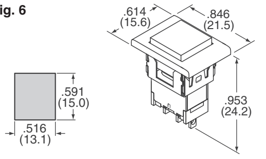

Illuminated Low Profile Pushbutton Switches

Dimensions in (mm) Inch

UB Series: Snap-action contact mechanism. Snap-in mount (W01) with solder lug terminals and silver contacts: PCB mount (G03) with straight PC terminals and gold contacts. **Features:** • **Electrical Capacity:** • **Power Level (code W):** 5A at 125/250VAC or 5A at 30VDC • **Logic Level (code G):** 0.4VA maximum at 28V AC/DC maximum • **Dielectric Strength:** 1,000VAC minimum between contacts • **Mechanical Life:** 1,000,000 operations minimum (momentary); 200,000 operations minimum (alternate action) • **Electrical Life:** 10,000 operations minimum (silver); 200,000 operations minimum (gold) • **Total Travel:** .091" **Operation Force:** 160 grams for single pole, 260 grams for double pole • **Contact Timing:** Break before make • **Operating Temperature:** -25°C ~ 50°C **UB Models: UL recognized and CSA certified:** LED Rating: Red 1.85V at 20mA, Amber 2.0V at 20mA, Green 2.1V at 20mA.

Fig. 1

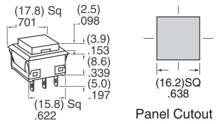

Panel Cutout

Fig. 2

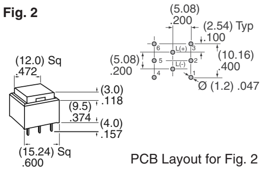

PCB Layout for Fig. 2

Fig.	Circuit	Switching Function	LED	Cap Desc. Lens / Diffuser	Digi-Key Part No.	Price Each			NKK Part No.
						1	25	100	
Square Snap-in Mount, Single Element LED — 5A									
1	SPDT	On-Mom	Red	Red / Red	360-2102-ND◆	9.91	6.74	6.20	UB15KKW015C-CC-RO
	SPDT	On-Mom	Amber	Amber / Amber	360-2103-ND◆	9.91	6.74	6.20	UB15KKW015D-DD-RO
	SPDT	On-Mom	Green	Green / Green	360-2104-ND◆	9.91	6.74	6.20	UB15KKW015F-FF-RO
	DPDT	On-Mom	Red	Red / Red	360-2105-ND◆	11.77	8.53	7.59	UB25KKW015C-CC-RO
	DPDT	On-Mom	Amber	Amber / Amber	360-2106-ND◆	11.77	8.53	7.59	UB25KKW015D-DD-RO
	DPDT	On-Mom	Green	Green / Green	360-1533-ND	12.83	9.30	8.27	UB25KKW015F-FF
	DPDT	On-Mom	Green	Green / Green	360-2107-ND◆	11.77	8.53	7.59	UB25KKW015F-FF-RO
Square PCB Mount, Single Element LED — .4VA									
2	SPDT	On-Mom	Red	Red / Red	360-1945-ND◆	9.58	6.59	5.99	UB15SKG035C-CC-RO
	SPDT	On-Mom	Amber	Amber / Amber	360-1946-ND◆	9.58	6.59	5.99	UB15SKG035D-DD-RO
	SPDT	On-Mom	Green	Green / Green	360-1947-ND◆	9.58	6.59	5.99	UB15SKG035F-FF-RO
	DPDT	On-Mom	Red	Red / Red	360-1948-ND◆	11.95	8.66	7.70	UB25SKG035C-CC-RO
	DPDT	On-Mom	Amber	Amber / Amber	360-1544-ND	11.48	8.32	7.40	UB25SKG035D-DD
	DPDT	On-Mom	Amber	Amber / Amber	360-1949-ND◆	11.95	8.66	7.70	UB25SKG035D-DD-RO
	DPDT	On-Mom	Green	Green / Green	360-1950-ND◆	11.95	8.66	7.70	UB25SKG035F-FF-RO

◆ *RoHS Compliant*

Illuminated Process Sealed Tactile Switches

Dimensions in (mm) Inch

JB Series - Illuminated, Low Profile Momentary Switches: Bright full face LED illumination for extremely long life. Sealed for automated soldering processes. Higher operating force provides more pronounced operating feel. All lenses come standard with diffused colored lens unless noted as clear. Terminal spacing conforming to .100" PCB grid. Straight, molded-in PC terminals. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Features:** • **Electrical Capacity:** 50mA at 24VDC, maximum • **Dielectric Strength:** 250VAC minimum • **Mechanical Life:** 5,000,000 operations minimum • Electrical Life: 5,000,000 operations minimum • **Operating Temperature:** -25°C ~ 70°C • **Total Travel:** .010"

JF Series - Illuminated, Ultra-Thin Momentary Switches: JF Series are washable tactile switches with crisp tactile feedback. Terminal spacing conforming to .100" PCB grid. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Features:** • **Electrical Capacity:** 50mA at 24VDC maximum • **Dielectric Strength:** 250VAC minimum • **Mechanical Life:** 500,000 operations minimum • **Electrical Life:** 500,000 operations minimum • **Operating Temperature:** -25°C ~ 70°C • **Total Travel:** .016"

Fig. 1

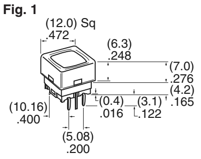

Fig. 2

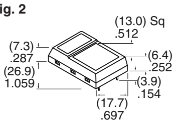

Fig.	Circuit	LED Color	Cap Description		Digi-Key Part No.	Price Each			NKK Part No.
			Lens	Diffuser		1	25	100	
JB Series — Illuminated, Low Profile Momentary Switches									
1	SPST	Red	Clear	White	360-1260-ND	4.62	2.89	2.64	JB15LPC-JB
	SPST	Red	Clear	Red	360-1261-ND	4.62	2.89	2.64	JB15LPC-JC
	SPST	Yellow	Clear	White	360-1262-ND	4.62	2.89	2.64	JB15LPE-JB
	SPST	Yellow	Clear	Yellow	360-1263-ND	4.62	2.89	2.64	JB15LPE-JE
	SPST	Green	Clear	White	360-1264-ND	4.62	2.89	2.64	JB15LPF-JB
	SPST	Green	Clear	Green	360-1265-ND	4.62	2.89	2.64	JB15LPF-JF
JF Series — Illuminated, Ultra Thin Momentary Switches									
2	SPST	Red	—	—	360-1266-ND	6.95	4.81	4.26	JF15AP1CC
	SPST	Yellow	—	—	360-1267-ND	7.99	5.67	5.00	JF15AP1EE
	SPST	Green	—	—	360-1268-ND	7.23	4.92	4.43	JF15AP1FF

Pushbutton Switches

RoHS COMPLIANT

1200, 1200M, 4700 and 1400N Series

Dimensions in mm

Fig. 1 – 1200 Series

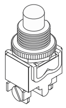

Fig. 2 – 1200 Series

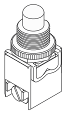

Fig. 3 – 1200M Series

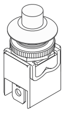

Fig. 4 – 4700 Series

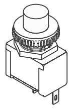

Fig. 5 – 1400N Series

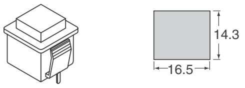

Fig.	Circuit	Switching Function	Termination	Contact Rating	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1037-ND	5.17	4.72	4.26	1202A2
2	SPST	ON (OFF)	Solder Lug	8A 125VAC/12VDC	679-1038-ND	5.41	4.93	4.46	1212A2
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1039-ND	5.41	4.93	4.46	1213A2
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1040-ND	3.91	3.57	3.22	1213C2
	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1041-ND	6.22	5.68	5.13	1222A2
3	SPST	ON (OFF)	Solder Lug	8A 125VAC/12VDC	679-1042-ND	16.52	15.07	13.61	1212MA
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1043-ND	13.94	12.71	11.48	1213MA
	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1044-ND	15.91	14.51	13.11	1222MA
4	SPST	ON (OFF)	Solder Lug	6A 125VAC	679-1045-ND	4.69	4.28	3.87	4731A02UU
	SPST	OFF (ON)	Solder Lug	6A 125VAC	679-1046-ND	5.54	5.06	4.57	4733A02UU
	SPDT	ON ON	Solder Lug	6A 125VAC	679-1047-ND	5.68	5.18	4.68	4736A02UU
	DPST	ON OFF	Solder Lug	6A 125VAC	679-1048-ND	6.32	5.77	5.21	4741A02UU
	DPST	OFF (ON)	Solder Lug	6A 125VAC	679-1049-ND	6.83	6.24	5.63	4743A02UU
	DPDT	ON ON	Solder Lug	6A 125VAC	679-1050-ND	7.92	7.23	6.53	4746A02UU
5	SPST	ON (OFF)	.185"QC	3A 12VDC	679-1051-ND	3.09	2.83	2.55	1412N8C2
	SPST	OFF (ON)	Solder Lug	3A 12VDC	679-1053-ND	2.92	2.67	2.41	1413NC2
	SPDT	ON ON	Solder Lug	3A 12VDC	679-1054-ND	3.40	3.10	2.80	1415NC2
	SPST	OFF (ON)	PCB	3A 12VDC	679-1055-ND	3.26	2.98	2.69	1443NC6
					Sealing Boots				
Nickel Plated Hex Nut for 1200 and 4700 series					679-1297-ND	5.20	4.75	4.29	U1654
Matte Black Hex Nut for 1200 and 4700 series					679-1298-ND	5.71	5.21	4.71	U1656

IA, IB and IS Series

IA Series:

Features: • Panel cut-out ø16.2mm • Resistant to frost, sand and hydrocarbons • Front panel sealed to IP67 **Standard Hardware Supplied:** • 1 knurled nut and 1 O-ring

Electrical Specifications: • Current/Voltage Rating: 2A/24VDC • **Contact Resistance:** 100mΩ maximum • **Electrical Life:** 1,000,000 cycles • **Total Travel:** 1.5mm • **Operating Force:** 650gF • **Operating Temperature:** -20°C ~ 65°C

IB and IS Series:

Features: • Sealed to IP67

Electrical Specifications: • Contact Rating: 400mA/32VAC - 100mA/50VDC - 125mA/125VAC • **Contact Resistance:** 50mΩ Maximum • **Electrical Life:** 500,000 cycles • **Total Travel:** 1.5mm • **Operating Force:** 2N ~ 5N • **Operating Temperature:** -40°C ~ 85°C

Dimensions in Inches (mm)

Fig. 1 – IA Series

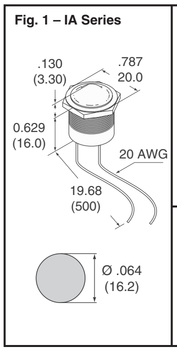

Fig. 2 – IB Series

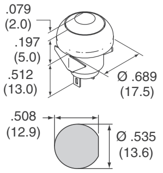

Fig 3 – IS Series

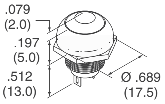

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST-NO, Blue Plunger	679-1079-ND	16.22	14.79	13.36	IAR3F1100
	SPST-NO, Black Plunger	679-1080-ND	16.39	14.95	13.50	IAR3F1200
	SPST-NO, Green Plunger	679-1081-ND	16.39	14.95	13.50	IAR3F1300
	SPST-NO, Red Plunger	679-1082-ND	16.39	14.95	13.50	IAR3F1600
	SPST-NO, Orange Plunger	679-1083-ND	16.39	14.95	13.50	IAR3F1900
	SPST-NO, White Plunger	679-1084-ND	16.22	14.79	13.36	IAR3F17/100
	SPDT, Red Plunger	679-1085-ND	19.52	17.80	16.08	IAR5F1600
	SPDT, Black Plunger	679-1087-ND	19.52	17.80	16.08	IAR5F1200
2	Snap-in, Black Plunger	679-1089-ND	9.52	8.68	7.84	IBR3SAD200
	Snap-in, Green Plunger	679-1090-ND	9.52	8.68	7.84	IBR3SAD300
	Snap-in, Red Plunger	679-1092-ND	9.52	8.68	7.84	IBR3SAD600
3	Threaded, Blue Plunger	679-1093-ND	10.34	9.43	8.52	ISR3SAD100
	Threaded, Black Plunger	679-1094-ND	10.34	9.43	8.52	ISR3SAD200
	Threaded, Green Plunger	679-1095-ND	10.34	9.43	8.52	ISR3SAD300
	Threaded, Yellow Plunger	679-1096-ND	10.34	9.43	8.52	ISR3SAD500
	Threaded, Red Plunger	679-1097-ND	10.34	9.43	8.52	ISR3SAD600
	Threaded, White Plunger	679-1098-ND	10.68	9.74	8.80	ISR3SAD7/100
	NEW! Recessed Pushbutton Bezel NEW!					
—	Black Anodized	679-2298-ND	9.66	8.81	7.96	HP02

IP Series – Pushbutton Switches for Harsh Environments

ELECTRICAL SPECIFICATIONS:

• **Contact Ratings:** 500mA at 48VAC, 200mA at 50VDC or 200mA at 250VAC • **Electrical Life:** 500,000 cycles min. at full load • **Total Travel:** .059" (1.5mm) • **Operating Force:** 10.5±4oz. (3±1N) • **Operating Temperature Range:** -40°C ~ 125°C • **Hardware:** Supplied with 1 hex nut and 1 O-ring • **LED Ratings:** Red- 20mA at 2V, Green- 10mA at 2V

Dimensions in Inches (mm)

Fig. 1

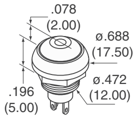

Fig. 2

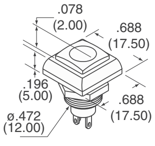

Fig. 3

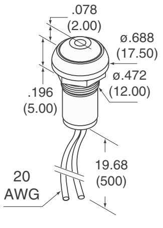

Fig. 4

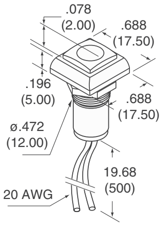

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST, On-Off, Black	679-1099-ND	15.88	14.48	13.08	IPR1SAD2
	SPST, On-Off, Red	679-1100-ND	15.88	14.48	13.08	IPR1SAD6
	SPST, Mom, Black	679-1101-ND	14.82	13.52	12.21	IPR3SAD2
	SPST, Mom, Red	679-1102-ND	14.82	13.52	12.21	IPR3SAD6
	SPST, Mom, Blue	679-1103-ND	15.27	13.92	12.58	IPR3SAD1
	SPST, Mom, Green	679-1104-ND	14.82	13.52	12.21	IPR3SAD3
	SPST, Mom, Yellow	679-1105-ND	15.27	13.92	12.58	IPR3SAD5
	SPDT, Mom, Black	679-1106-ND	15.88	14.48	13.08	IPR5SAD2
	SPDT, Mom, Red	679-1107-ND	15.88	14.48	13.08	IPR5SAD6
	SPST, On-Off, Black, Green LED	679-1115-ND	21.45	19.57	17.67	IPR1SAD2LOG

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST, On-Off, Black, Red LED	679-1116-ND	21.45	19.57	17.67	IPR1SAD2LOS
	SPST, Mom, Black, Green LED	679-1117-ND	17.61	16.06	14.51	IPR3SAD2LOG
	SPST, Mom, Black, Red LED	679-1118-ND	17.61	16.06	14.51	IPR3SAD2LOS
	SPST, Mom, Red, Red LED	679-1119-ND	17.61	16.06	14.51	IPR3SAD6LOS
	SPST, On-Off, Green, Green LED	679-1120-ND	21.45	19.57	17.67	IPR1SAD3LOG
2	SPST, On-Off, Black	679-1108-ND	15.88	14.48	13.08	IPC1SAD2
	SPST, Mom, Black	679-1109-ND	14.82	13.52	12.21	IPC3SAD2
	SPST, Mom, Red	679-1110-ND	14.82	13.52	12.21	IPC3SAD6
	SPST, Mom, Green	679-1112-ND	14.82	13.52	12.21	IPC3SAD3
	SPDT, Mom, Black	679-1113-ND	15.88	14.48	13.08	IPC5SAD2
	SPST, On-Off, Black, Red LED	679-1122-ND	21.45	19.57	17.67	IPC1SAD2LOS
	SPST, Mom, Black, Red LED	679-1123-ND	17.61	16.06	14.51	IPC3SAD2LOS
3	SPST, On-Off, Black	679-1124-ND	19.04	17.36	15.68	IPR1FAD2
	SPST, On-Off, Red	679-1125-ND	19.04	17.36	15.68	IPR1FAD6
	SPST, Mom, Black	679-1126-ND	18.29	16.68	15.07	IPR3FAD2
	SPST, Mom, Green	679-1127-ND	18.29	16.68	15.07	IPR3FAD3
	SPST, Mom, Yellow	679-1128-ND	18.29	16.68	15.07	IPR3FAD5
	SPST, Mom, Red	679-1129-ND	18.29	16.68	15.07	IPR3FAD6
	SPDT, Mom, White	679-1130-ND	16.83	15.35	13.86	IPR3FAD7/1
	SPDT, Mom, Black	679-1131-ND	22.47	20.50	18.51	IPR5FAD2
	SPDT, Mom, Red	679-1134-ND	22.47	20.50	18.51	IPR5FAD6
	SPST, On-Off, Black, Green LED	679-1142-ND	26.04	23.75	21.45	IPR1FAD2LOG
	SPST, On-Off, Green, Green LED	679-1143-ND	26.04	23.75	21.45	IPR1FAD3LOG
	SPST, Mom, Black, Green LED	679-1144-ND	21.45	19.57	17.67	IPR3FAD2LOG
	SPST, Mom, Black, Red LED	679-1145-ND	21.45	19.57	17.67	IPR3FAD2LOS
	SPST, Mom, Green, Green LED	679-1146-ND	21.45	19.57	17.67	IPR3FAD3LOG
	SPST, Mom, Red, Red LED	679-1147-ND	21.45	19.57	17.67	IPR3FAD6LOS
4	SPST, On-Off, Red	679-1136-ND	19.04	17.36	15.68	IPC1FAD6
	SPST, Mom, Black	679-1137-ND	18.29	16.68	15.07	IPC3FAD2
	SPST, Mom, Red	679-1139-ND	18.29	16.68	15.07	IPC3FAD6
	SPDT, Mom, Black	679-1140-ND	20.23	18.45	16.66	IPC5FAD2

(Continued)

AV Series

Fig. 1

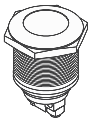

Fig. 2

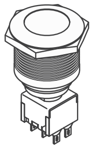

Fig. 3

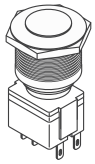

Fig. 4

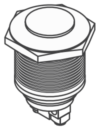

Fig. 5

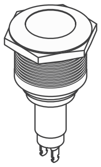

Fig. 6

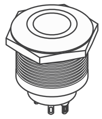

Fig.	Circuit	Switching Function	Ratings	Actuator	Hole Size	Termination	Sealing	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST-NO	OFF (ON)	2A 48VDC	Curved	22.2	Screw	IP54	679-1056-ND	16.69	15.22	13.75	AV021003C900
	SPST-NO	OFF (ON)	2A 48VDC	Curved	22.2	Screw	IP65	679-1057-ND	22.77	20.77	18.76	AV021003C900K
	SPST-NO	OFF (ON)	2A 48VDC	Flat	22.2	Screw	IP54	679-1058-ND	17.11	15.61	14.10	AV031003C900
	SPST-NO	OFF (ON)	2A 48VDC	Flat	19.2	Solder Lug	IP54	679-1059-ND	13.84	12.62	11.40	AV091003C200
	SPST-NO	OFF (ON)	2A 48VDC	Flat	19.2	Screw	IP54	679-1060-ND	13.18	12.02	10.85	AV091003C900
	SPST-NO	OFF (ON)	2A 48VDC	Curved	19.2	Screw	IP54	679-1061-ND	12.95	11.81	10.67	AV191003C900
2	SPDT	ON (ON)	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1064-ND	35.26	32.15	29.04	AV02810KMZQ
	DPDT	ON (ON)	6A 125VAC	Curved	19.2	Solder Lug	IP54	679-1062-ND	24.60	22.44	20.27	AV19820KMZQ
	DPDT	ON (ON)	6A 125VAC	Curved	19.2	Solder Lug	IP65	679-1063-ND	29.98	27.34	24.70	AV19820KMZQK
	DPDT	ON (ON)	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1065-ND	39.64	36.15	32.65	AV02820KMZQ
3	DPDT	ON ON	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1066-ND	27.59	25.16	22.72	AV044746A200
4	SPST-NO	OFF (ON)	200mA 48VDC	Flat	16.2	Screw	IP54	679-1067-ND	12.44	11.35	10.25	AV0630C900
	SPST-NO	OFF (ON)	200mA 48VDC	Flat	16.2	Screw	IP65	679-1068-ND	18.29	16.68	15.07	AV0630C900K
5	SPST	ON OFF	.4VA @20V	Flat	19.2	Solder Lug	IP54	679-1069-ND	21.22	19.35	17.48	AV09401ZBE
	SPST	ON OFF	3A 120VAC	Curved	19.2	Solder Lug	IP54	679-1070-ND	21.73	19.81	17.90	AV19401ZQEUL
	SPST	OFF (ON)	3A 120VAC	Curved	19.2	Solder Lug	IP54	679-1071-ND	21.72	19.80	17.89	AV19402ZQE
	SPST	ON OFF	3A 120VAC	Red Mushroom	19.2	Solder Lug	IP54	679-1072-ND	45.08	41.11	37.13	AV49401ZQE6
6	SPST	OFF (ON)	50mA 24VDC	Flat	19.2	Solder Lug	IP54	679-1073-ND	17.15	15.64	14.13	AV09C703D200
	SPST	OFF (ON)	50mA 24VDC	Flat	19.2	Solder Lug	IP65	679-1074-ND	21.18	19.32	17.45	AV09C703D200K
	SPST	OFF (ON)	50mA 24VDC	Flat Blue LED	19.2	Solder Lug	IP65	679-1075-ND	42.13	38.42	34.70	AV09C7L3D2001K
	SPST	OFF (ON)	50mA 24VDC	Flat Green LED	19.2	Solder Lug	IP65	679-1076-ND	33.86	30.87	27.89	AV09C7L3D2003K
	SPST	OFF (ON)	50mA 24VDC	Flat Red LED	19.2	Solder Lug	IP54	679-1077-ND	28.94	26.39	23.84	AV09C7L3D2006
	SPST	OFF (ON)	50mA 24VDC	Curved	19.2	Solder Lug	IP65	679-1078-ND	23.15	21.11	19.07	AV19C703D200K

Joysticks

1000 Series: Are robust, switch joysticks. Based on industry standard V3 and V4 microswitches, they can switch 6A, 10A or up to 16A. The 1000 Series are ideal for general machine control type applications where the user is directing equipment at a predetermined speed

4000 Series: A range of highly versatile, single, dual, or tri-axial, proportional joysticks. Unlike other potentiometer based joysticks, the 4000 Series has an all-metal mechanism for maximum possible robustness and performance over life. The range employs high quality, plastic conductive film potentiometers as standard, and is designed as a sub-panel mount unit. The 4000 Series is ideally suited to medium duty applications such as electric vehicle control. This series remains the preferred choice for applications which require a life greater than five million cycles and absolute immunity to RFI.

5000 Series: Are a family of cost optimized, potentiometer joysticks. With particular attention paid to the style of the unit and a low installed depth, these joysticks are ideal for lighter duty applications such as CCTV keyboard control.

9000 Series: Offers a range of single, dual, or tri-axial products, utilizing contactless sensing to give highly repeatable proportional signals that do not degrade with use. The 9000 Series also offers a range of electronic features including dual decode technology providing for electronic "at-centre" or "internal fault" detect, which makes it the ideal user interface for complex and safety critical applications such as materials handling or power chair control.

Fig. 1

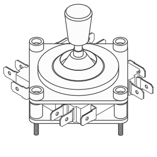

Fig. 2

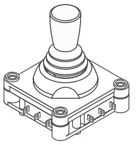

Fig. 3

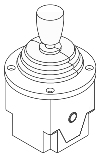

Fig. 4

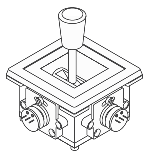

Fig. 5

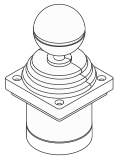

Fig. 6

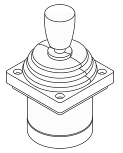

Fig. 7

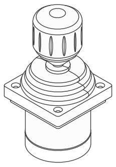

Fig. 8

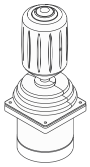

Fig. 9

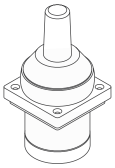

Fig.	Description	Digi-Key Part No.	Price Each 1	6	25	APEM Part No.
	Finger Operation					
	1000 Series					
1	SPDT, 4-Point, Screw Mount, 16A	679-1404-ND	31.79	25.43	22.88	2V17F1100
	SPDT, 4-Point, Screw Mount, 6A	679-1405-ND	27.62	22.10	19.90	1V15F1100
2	SPDT, 22mm, Bushing Mount, 6A	679-1406-ND	40.94	33.59	23.65	1D15F1500
	DPDT, 22mm, Bushing Mount, 6A	679-1407-ND	58.61	46.89	31.55	1D27F1500
	4000 Series					
3	1 Axis, 5K, 55 degrees	679-1408-ND	127.74	102.18	91.98	4R182S1E5500
	2 Axis, 5K, 340 degrees	679-1409-ND	147.73	118.18	106.37	4R252S1E5500
	2 Axis, 5K, 340 degrees with Soft Touch Pushbutton	679-1410-ND	216.04	172.83	151.23	4R252S1N5500
	5000 Series					
4	2 Axis, 5K, 220 degrees, Square Bezel	679-1411-ND	69.94	55.95	55.52	5S251S0F1000
	2 Axis, 5K, 220 degrees, Circular Bezel	679-1412-ND	76.30	61.03	60.99	5T251S0F2100
	Hand Grip Operation					
	9000 Series Inductive Coil Contactless					
5	Round Handle, Gloss Phenolic	679-1413-ND	112.66	90.11	77.74	9SA50AC6500
6	Conical Handle, Matte Nylon	679-1414-ND	130.99	104.78	91.70	9SA50RE6500
7	Third Axis Handle, Hard Anodized Aluminum	679-1417-ND	213.18	170.54	153.49	9SA50RR6559
8	Third Axis + Pushbutton Handle, Hard Anodized Aluminum	679-1415-ND	296.30	237.05	172.34	9SW40RP6559
9	Skirted Handle, Matte Nylon	679-1416-ND	121.97	98.01	84.15	9MA50RQ6295
	9000 Series Accessories					
—	USB Interface Module	679-1418-ND	185.22	148.17	133.36	909999
	USB Cable Assembly	679-1419-ND	4.69	4.07	—	919998

APEM COMPONENTS, INC.

Joysticks

RoHS COMPLIANT

CH Products

Fig. 1

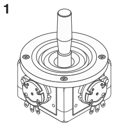

Fig. 2

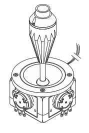

Fig. 3

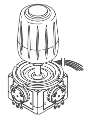

Fig. 4

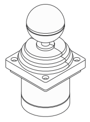

Fig. 5

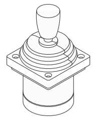

Fig. 6

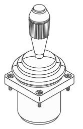

Fig. 7

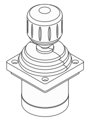

Fig. 8

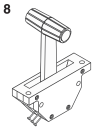

Fig. 9

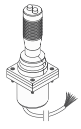

Fig. 10

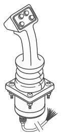

Fig. 11

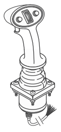

Fig. 12 ***NEW!***

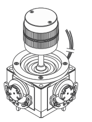

Fig. 13 ***NEW!***

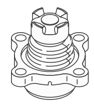

Fig. 14 ***NEW!***

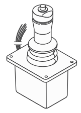

Fig. 15 ***NEW!***

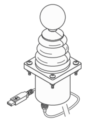

Fig.	Description	Digi-Key Part No.	Price Each 1	5	10	APEM Part No.
	Finger Operation					
	Resistive Potentiometers					
1	No Button with Boot, Mini	679-2257-ND	127.05	87.12	62.92	M11L061P
2	2 Axis with Buttons, Mini	679-2258-ND	160.93	106.48	78.65	M21C051P
3	3 Axis, No Buttons, Mini	679-2259-ND	197.23	131.89	101.64	M31C0M1P
	3 Axis with Boot and Button, Mini	679-2260-ND	225.06	150.04	117.37	M41L0N1P
12	3 Axis, No Buttons, Mini	679-2504-ND ***NEW!***	188.30	152.27	101.40	M31L081P
	3 Axis, No Buttons, Standard	679-2502-ND ***NEW!***	188.30	128.90	101.40	S30L081P
	HFX Series I Hall Effect Contactless					
4	2 Axis, Ball Tip	679-2261-ND	135.82	109.66	88.73	HFX-10S10
5	2 Axis, No Button	679-2262-ND	133.42	107.26	86.33	HFX-11S10
	2 Axis, No Button, USB	679-2509-ND ***NEW!***	211.85	164.84	143.77	HFX-11S00-U
6	2 Axis with Button	679-2263-ND	159.58	128.19	103.34	HFX-22S10
7	3 Axis, No Button	679-2503-ND ***NEW!***	181.05	146.08	117.50	HFX-33R13
	3 Axis, No Button	679-2264-ND	197.51	158.27	128.19	HFX-33S10
	3 Axis, 1 Button	679-2265-ND	223.67	179.20	145.19	HFX-44S10
	3 Axis, 2 Buttons	679-2266-ND	229.67	185.20	151.19	HFX-45S10
	3 Axis, Low Profile	679-2267-ND	197.51	158.27	128.19	HFX-36S10
	3 Axis, 2 Buttons, USB	679-2507-ND ***NEW!***	299.58	235.78	195.74	HFX-45S00-U
	HFX T-Bar Fader					
8	T-Bar Fader	679-2284-ND	151.00	—	—	TBF-PO
	NEW! TS Series NEW!					
13	Single Axis, Castle, Mini	679-2500-ND	56.25	50.63	48.38	TS-1D1U00A-1293
	Square, Castle, Mini	679-2501-ND	56.25	50.63	48.38	TS-1D1S00A-1294
	Hand Grip Operation					
	HFX Series II Hall Effect Contactless					
4	2 Axis, Ball Tip	679-2268-ND	220.15	190.77	162.57	HFX2-10S10
5	2 Axis, No Button	679-2269-ND	217.95	188.57	160.37	HFX2-11S10
6	2 Axis with Button	679-2270-ND	244.49	211.49	180.03	HFX2-22S10
7	3 Axis, 1 Button	679-2271-ND	260.84	—	—	HFX2-44S10
	3 Axis, 2 Buttons	679-2272-ND	265.84	—	—	HFX2-45S10
	3 Axis, Low Profile	679-2273-ND	251.40	—	—	HFX2-36S10
	HFX Series III Contactless					
4	2 Axis, Ball Tip	679-2274-ND	330.00	286.00	246.40	MS-10N00S000
7	2 Axis, Low Profile, No Button	679-2275-ND	349.80	302.50	260.71	MS-23N00S000
	3 Axis, Low Profile, 2 Buttons	679-2277-ND	462.00	400.40	343.20	MS-54W00S000
9	2 Axis, Stock Grip, 2 Buttons	679-2276-ND	396.00	343.20	294.80	MS-42N20S000
	HFX Series IV Contactless					
9	2 Axis, Stock Grip, 2 Buttons	679-2278-ND	449.00	430.10	369.61	HG-2120S000
10	2 Axis, 4 Buttons	679-2279-ND	523.00	502.70	431.20	HG-3340S000
	2 Axis, 4 Buttons, USB Connector	679-2281-ND	566.00	—	—	HG-3340S000-U
11	3 Axis, 2 Buttons, Thumbwheel, Trigger	679-2280-ND	566.00	—	—	HG-432IS000-T
	3 Axis, 2 Buttons, Thumbwheel, Trigger, USB Connector	679-2282-ND	655.00	583.00	504.91	HG-432IS000-T-U
	NEW! THX Series NEW!					
14	Single Axis Throttle, 1 Button, Short Stock Grip	679-2506-ND	501.80	424.20	365.60	THX-32N1001D0
	NEW! HG Series NEW!					
15	2 Axis, Ball Tip	679-2508-ND	494.90	417.70	387.13	HG-1000S000-U

I

Thumbwheels

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	Switch Thumbwheel-Red	679-2285-ND	81.00	67.50	59.85	HTW-00-RED
	Switch Thumbwheel-Blue	679-2286-ND	81.00	67.50	59.85	HTW-00-BLUE
	Switch Thumbwheel-Black	679-2287-ND	81.00	67.50	59.85	HTW-00-BLACK
2	Switch Rocker	679-2288-ND	61.20	51.00	45.22	500-252
3	Switch 4-Way Hat	679-2289-ND	21.45	14.58	13.20	500-526

Fig. 1

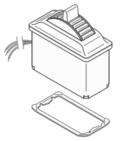

Fig. 2

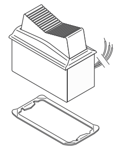

Fig. 3

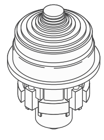

LP and R Series Trackball

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	Trackball 1” Black PS/2	679-2290-ND	149.94	124.95	110.79	LP1003EXXH00
	Trackball 1” Red Backlit USB	679-2292-ND	176.94	147.45	130.74	LP1007EXXH00-R
	Trackball 1” Blue Backlit PS/2	679-2293-ND	162.54	135.45	120.10	LP1003EXXH00-B
2	Trackball 1” Black USB with 3 Button Strip	679-2291-ND	189.54	157.95	140.05	LP1007EXXH00
3	Trackball 1.5” Blue Backlit USB	679-2296-ND	203.49	169.58	150.36	R1507F20V00-B
	Trackball 1.5” Black USB	679-2297-ND	176.94	147.45	130.74	R1507F20V00

Fig. 1

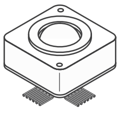

Fig. 2

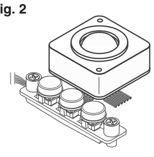

Fig. 3

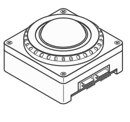

Desktop

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	Trackball Desktop PS/2 Grey	679-2294-ND	204.12	170.10	150.83	DT2253X20V00
	Trackball Desktop USB Black	679-2295-ND	149.94	124.95	110.79	DT2257X20V00-BLK
2	Joystick IP Desktop USB Black	679-2283-ND	273.90	239.01	229.00	100-550-BLK-RF
	Joystick IP Desktop USB Grey	679-2505-ND ***NEW!***	273.90	—	—	100-550-GRY-RF

Fig. 1

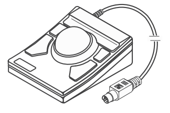

Fig. 2

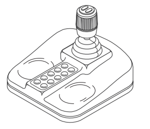

C&K RAFI
SOLUTIONS WITH PASSION

Industrial Control Switches

LUMOTAST 75

RoHS COMPLIANT

Specifications: ***Mechanical:*** • Mounting: Ring nut • Terminals: Tin-plated solder • Contact material: Silver ***Electrical:*** • Maximum DC Voltage: 220V • Maximum rated AC voltage: 4A • Maximum contact resistance: 200mΩ • Operating temperature range: -25°C ~ 70°C

Fig. 1 — Switch

Assembly requires Switch + Lamp + Lens + Diffuser

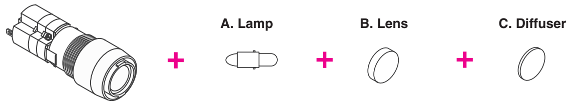

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
	Switches					
	Round					
1	Momentary, 1NC + 1NO	CKN9387-ND	27.04	23.36	19.67	1.15108.4510000
	Latching, 1NC + 1NO	CKN9388-ND	32.11	27.74	23.36	1.15108.5510000
	Momentary, 2NC + 2NO	CKN9389-ND	39.56	34.17	28.78	1.15108.4520000
	Latching, 2NC + 2NO	CKN9390-ND	44.88	38.77	32.65	1.15108.5520000
	Square					
1	Momentary, 1NC + 1NO	CKN9391-ND	27.04	23.36	19.67	1.15108.2510000
	Latching, 1NC + 1NO	CKN9392-ND	31.55	27.25	22.95	1.15108.3510000
	Momentary, 2NC + 2NO	CKN9236-ND	53.95	43.16	34.17	1.15108.2520000
	Latching, 2NC + 2NO	CKN9393-ND	44.88	38.77	32.65	1.15108.3520000
	Rectangular					
1	Momentary, 1NC + 1NO	CKN9394-ND	27.04	23.36	19.67	1.15108.0510000
	Latching, 1NC + 1NO	CKN9395-ND	32.11	27.74	23.36	1.15108.1510000
	Momentary, 2NC + 2NO	CKN9237-ND	53.95	43.16	34.17	1.15108.0520000
	Latching, 2NC + 2NO	CKN9396-ND	44.88	38.77	32.65	1.15108.1520000

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
	Accessories					
	Lamps					
1A	Filament Lamp, 12V	CKN9231-ND	8.88	7.11	5.63	1.90100.0220000
	Filament Lamp, 24V	CKN9232-ND	9.91	7.93	6.28	1.90100.0230000
—	LED, Superbright Red, 24V	CKN9386-ND	19.97	17.25	14.53	1.90690.3310000
	LED, Superbright Green, 24V	CKN9233-ND	39.01	31.21	24.71	1.90690.3320000
	LED, Red, 3V	CKN9234-ND	9.74	7.79	6.17	1.90692.0010000
	LED, Green, 3V	CKN9235-ND	9.74	7.79	6.17	1.90692.0020000
	Lenses					
1B	Round, Colorless, for Filament or LED	CKN9376-ND	.86	.69	.55	5.49257.0111002
	Round, Red, for LED	CKN9214-ND	.86	.69	.55	5.49257.0111301
	Round, Red, for Filament Lamp	CKN9377-ND	.86	.69	.55	5.49257.0111303
	Round, Yellow, for Filament or LED	CKN9215-ND	.86	.69	.55	5.49257.0111402
	Round, Green, for Filament Lamp	CKN9216-ND	.86	.69	.55	5.49257.0111502
	Round, Green, for LED	CKN9217-ND	.86	.69	.55	5.49257.0111503
	Round, Blue, for Filament Lamp	CKN9218-ND	.86	.69	.55	5.49257.0111601
	Square, Colorless, for Filament or LED	CKN9378-ND	.86	.69	.55	5.49275.0361002
	Square, Red, for LED	CKN9219-ND	.86	.69	.55	5.49275.0361301
	Square, Red, for Filament Lamp	CKN9379-ND	.86	.69	.55	5.49275.0361303
	Square, Yellow, for Filament or LED	CKN9220-ND	.86	.69	.55	5.49275.0361402
	Square, Green, for Filament Lamp	CKN9380-ND	.86	.69	.55	5.49275.0361502
	Square, Green, for LED	CKN9221-ND	.86	.69	.55	5.49275.0361503
	Square, Blue, for Filament Lamp	CKN9222-ND	.86	.69	.55	5.49275.0361601
	Rectangular, Colorless, for Filament or LED	CKN9381-ND	.86	.69	.55	5.49275.0321002
	Rectangular, Red, for LED	CKN9223-ND	.86	.69	.55	5.49275.0321301
	Rectangular, Red, for Filament Lamp	CKN9382-ND	.86	.69	.55	5.49275.0321303
	Rectangular, Yellow, for Filament or LED	CKN9224-ND	.86	.69	.55	5.49275.0321402
	Rectangular, Green, for Filament Lamp	CKN9383-ND	.86	.69	.55	5.49275.0321502
	Rectangular, Green, for LED	CKN9225-ND	.86	.69	.55	5.49275.0321503
	Rectangular, Blue, for Filament Lamp	CKN9226-ND	.86	.69	.55	5.49275.0321601
	Diffusers					
1C	Round, for Filament Lamp	CKN9384-ND	.96	.77	.61	5.72050.0000202
	Round, for LED	CKN9227-ND	.96	.77	.61	5.72050.0000214
	Square, for Filament Lamp	CKN9385-ND	.96	.77	.61	5.73013.0000202
	Square, for LED	CKN9228-ND	.96	.77	.61	5.73013.0000214
	Rectangular, for Filament Lamp	CKN9229-ND	.96	.77	.61	5.73012.0000202
	Rectangular, for LED	CKN9230-ND	.96	.77	.61	5.73012.0000214
	Tools					
—	Lamp Extractor for 3V LED	CKN9239-ND	13.92	11.14	8.82	1.90900.0010000
	Lamp Extractor for Filament Lamp	CKN9238-ND	12.38	9.91	7.85	1.90900.0020000
	Lamp Extractor for 24V LED	CKN9240-ND	12.38	9.91	7.85	1.90900.0040000
	Fixing Spanner	CKN9241-ND	3.59	2.88	2.28	5.58002.0190105

RAFIX 16

RoHS COMPLIANT

RAFIX 16 is a complete control component series for a mounting hole diameter of 16.2mm. It enables you to design attractive control panels with minimum space requirements and at the same time sufficiently large actuating areas. **Specifications:** • Degree of protection: IP65 on panel • Grid spacing: 25mm x 25mm • Height from front panel: 7mm (Low profile design) • Operating temperature: Non-Illuminated: -25°C ~ 70°C; Illuminated: -25°C ~ 55°C • Storage temperature: -40°C ~ 85°C

Assembly requires Switch + Lamp + Contact Block

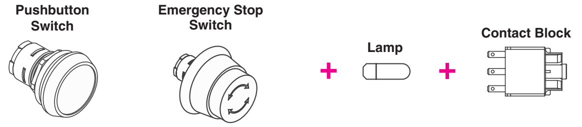

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switches					
Round Pushbutton Switches					
Transparent, Red Illuminated	CKN9398-ND	20.83	16.67	13.20	1.30070.0211306
Transparent, Yellow Illuminated	CKN9256-ND	20.83	16.67	13.20	1.30070.0211403
Transparent, Green Illuminated	CKN9257-ND	20.83	16.67	13.20	1.30070.0211505
Opaque black	CKN9258-ND	21.34	17.08	13.52	1.30070.2710100
Opaque Red	CKN9259-ND	21.34	17.08	13.52	1.30070.2710300
Square Pushbutton Switches					
Transparent, colorless Illuminated	CKN9260-ND	20.83	16.67	13.20	1.30070.0011002
Transparent, Red Illuminated	CKN9261-ND	20.83	16.67	13.20	1.30070.0011306
Transparent, Yellow Illuminated	CKN9262-ND	20.83	16.67	13.20	1.30070.0011403
Transparent, Green Illuminated	CKN9263-ND	20.83	16.67	13.20	1.30070.0011505
Opaque White	CKN9264-ND	20.49	16.40	12.98	1.30070.2510200
Opaque Red	CKN9265-ND	20.49	16.40	12.98	1.30070.2510300
Opaque Yellow	CKN9266-ND	20.49	16.40	12.98	1.30070.2510400
Opaque Green	CKN9267-ND	20.49	16.40	12.98	1.30070.2510500
Emergency Stop Switches					
Opaque Red, with Yellow Collar	CKN9399-ND	48.89	42.23	35.56	1.30074.8210000
Opaque Red, with Yellow Collar, conical	CKN9268-ND	51.05	40.84	32.34	1.30074.2810300
Accessories					
Lamps					
Filament Lamp, 12V	CKN9243-ND	3.68	2.94	2.33	1.90120.0120000
Filament Lamp, 24V	CKN9242-ND	4.10	3.29	2.60	1.90120.0110000
Contact Blocks					
Momentary, 1NC + 1NO, with Lamp Socket	CKN9244-ND	25.35	20.29	16.06	1.20122.0010000
Momentary, 2NO, with Lamp Socket	CKN9245-ND	25.35	20.29	16.06	1.20122.0020000
Momentary, 2NC, with Lamp Socket	CKN9246-ND	25.35	20.29	16.06	1.20122.0030000
Latching, 1NC + 1NO, with Lamp Socket	CKN9247-ND	38.24	30.60	24.23	1.20122.0410000
Latching, 2NO, with Lamp Socket	CKN9248-ND	38.24	30.60	24.23	1.20122.0420000
Momentary, 1NC + 1NO, without Lamp Socket	CKN9249-ND	20.32	16.26	12.87	1.20122.0210000
Momentary, 2NO, without Lamp Socket	CKN9250-ND	20.32	16.26	12.87	1.20122.0220000
Momentary, 2NC, without Lamp Socket	CKN9251-ND	20.32	16.26	12.87	1.20122.0230000
Latching, 1NC + 1NO, without Lamp Socket	CKN9252-ND	25.35	20.29	16.06	1.20122.0610000
Latching, 2NO, without Lamp Socket	CKN9253-ND	25.35	20.29	16.06	1.20122.0620000
Momentary, 1NC + 1NO, Universal	CKN9254-ND	25.27	20.22	16.01	1.20123.0210000
Momentary, 1NC, Universal	CKN9397-ND	18.10	14.49	11.47	1.20123.0220000
Momentary, 2NC, Universal	CKN9255-ND	25.53	20.43	16.17	1.20123.0240000
Labels for Emergency Stop Switches					
Yellow, NOT-AUS, 60mm Diameter	CKN9269-ND	9.51	7.62	6.03	5.76204.4010400
Yellow, Emergency Stop, 60mm Diameter	CKN9270-ND	9.51	7.62	6.03	5.76204.4030400

RAFIX 22 FS

RoHS COMPLIANT

The RAFIX 22 FS control component range can be combined on a common printed circuit board together with short-travel keys and other components thanks to its extremely small mounting depth of 9.2mm The actuators and signal indicators are fastened to a front panel with a threaded ring in a 22.3mm panel cut-out. The contact blocks are soldered onto the PCB. Illumination of the actuator is provided by a 3mm LED inserted into the base of the contact block and soldered to the PCB together with the contact block.

Assembly requires Switch + Contact Block

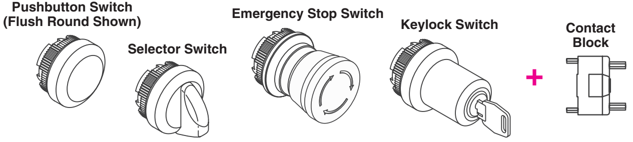

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switches					
Flush Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9277-ND	19.46	15.58	12.33	1.30250.0211000
Transparent Red, Illuminated	CKN9278-ND	19.46	15.58	12.33	1.30250.0211300
Transparent Yellow, Illuminated	CKN9279-ND	19.46	15.58	12.33	1.30250.0211400
Transparent Green, Illuminated	CKN9280-ND	19.46	15.58	12.33	1.30250.0211500
Transparent Blue, Illuminated	CKN9281-ND	19.46	15.58	12.33	1.30250.0211600
Opaque Black	CKN9282-ND	12.81	10.25	8.12	1.30250.1210100
Opaque White	CKN9283-ND	12.81	10.25	8.12	1.30250.1210200
Opaque Red	CKN9284-ND	12.81	10.25	8.12	1.30250.1210300
Opaque Yellow	CKN9285-ND	12.81	10.25	8.12	1.30250.1210400
Opaque Green	CKN9286-ND	12.81	10.25	8.12	1.30250.1210500
Flush Round Pushbutton, Latching					
Transparent Red, Illuminated	CKN9287-ND	34.49	27.60	21.85	1.30250.0311300
Transparent Green, Illuminated	CKN9288-ND	34.49	27.60	21.85	1.30250.0311500
Opaque Black	CKN9289-ND	26.81	21.45	16.98	1.30250.1310100
Opaque Red	CKN9290-ND	26.81	21.45	16.98	1.30250.1310300
Opaque Green	CKN9291-ND	26.81	21.45	16.98	1.30250.1310500
Protruding Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9292-ND	16.29	13.04	10.32	1.30250.2211000
Transparent Red, Illuminated	CKN9293-ND	16.29	13.04	10.32	1.30250.2211300
Transparent Green, Illuminated	CKN9294-ND	16.29	13.04	10.32	1.30250.2211500
Opaque Red	CKN9295-ND	11.01	8.81	6.98	1.30250.3210300
Opaque Green	CKN9296-ND	11.01	8.81	6.98	1.30250.3210500
Flush Square Pushbutton, Momentary					
Transparent Red, Illuminated	CKN9297-ND	19.46	15.58	12.33	1.30250.0711300
Transparent Green, Illuminated	CKN9298-ND	19.46	15.58	12.33	1.30250.0711500
Transparent Blue, Illuminated	CKN9299-ND	19.46	15.58	12.33	1.30250.0711600
Selector Switches					
Momentary 1° x 40° Illuminated	CKN9300-ND	37.90	30.33	24.01	1.30252.0022200
Momentary 2° x 40° Illuminated	CKN9301-ND	37.90	30.33	24.01	1.30252.0272200
Latching 1° x 90° Form L, Illuminated	CKN9302-ND	37.90	30.33	24.01	1.30252.1022200
Latching 1° x 90° Form V, Illuminated	CKN9303-ND	37.90	30.33	24.01	1.30252.2022200
Latching 2° x 60° Illuminated	CKN9304-ND	37.90	30.33	24.01	1.30252.3022200
Momentary 1° x 40°	CKN9305-ND	27.92	22.34	17.68	1.30252.5020200
Momentary 2° x 40°	CKN9306-ND	27.92	22.34	17.68	1.30252.5270200
Latching 1° x 90° Form L	CKN9307-ND	27.92	22.34	17.68	1.30252.6020200
Latching 1° x 90° Form V	CKN9308-ND	27.92	22.34	17.68	1.30252.7020200
Latching 2° x 60°	CKN9309-ND	27.92	22.34	17.68	1.30252.8020200

(Continued)

Industrial Control Switches

RAFIX 22 FS *(Cont.)*

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Keylock Switches					
Momentary 1° x 40°, Key Removable pos. 0	CKN9310-ND	71.11	56.89	45.04	1.30255.0020000
Momentary 2° x 40°, Key Removable pos. 0	CKN9311-ND	71.11	56.89	45.04	1.30255.1020000
Latching 1° x 90° Form L, Key Removable pos. 0+1	CKN9312-ND	71.11	56.89	45.04	1.30255.2220000
Latching 1°x 90° Form V, Key Removable pos. 0+1	CKN9313-ND	71.11	56.89	45.04	1.30255.3220000
Latching 2° x 90°, Key Removable pos. 0+1+2	CKN9314-ND	71.11	56.89	45.04	1.30255.4320000

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Emergency Stop Switches					
30mm Diameter, Red	CKN9402-ND	35.81	30.93	26.05	1.30253.5010300
30mm Diameter, Red, Illuminated	CKN9315-ND	57.28	45.83	36.28	1.30253.0010300
Accessories					
Contact Blocks					
Universal, 1NC	CKN9271-ND	17.08	13.67	10.82	1.20126.0010000
Universal, 1NO	CKN9272-ND	17.08	13.67	10.82	1.20126.0020000
Universal, 1NC + 1NO	CKN9400-ND	20.22	17.47	14.71	1.20126.0030000
Universal, 2NC	CKN9273-ND	27.58	22.07	17.47	1.20126.0040000
Universal, 2NO	CKN9274-ND	27.58	22.07	17.47	1.20126.0050000
Emergency Stop, 1NC	CKN9275-ND	17.08	13.67	10.82	1.20126.4010000
Emergency Stop, 1NC + 1NO	CKN9401-ND	20.22	17.47	14.71	1.20126.4030000
Emergency Stop, 2NC	CKN9276-ND	20.22	17.47	14.71	1.20126.4040000

RAFIX 22 QR

The RAFIX 22 QR control component range meets all the technical requirements and current standards for control gear.

The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely. This means that you may implement modifications of design or configuration even at the last minute.

Assembly requires Switch + Lamp + Contact Block + Coupling

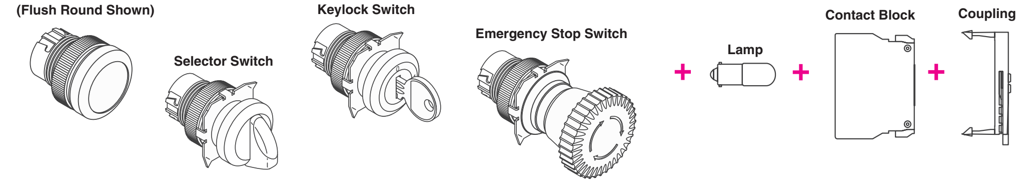

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switches					
Flush Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9329-ND	19.64	15.72	12.44	1.30240.0211000
Transparent Red, Illuminated	CKN9330-ND	19.64	15.72	12.44	1.30240.0211300
Transparent Yellow, Illuminated	CKN9331-ND	19.64	15.72	12.44	1.30240.0211400
Transparent Green, Illuminated	CKN9332-ND	19.64	15.72	12.44	1.30240.0211500
Opaque White	CKN9333-ND	12.89	10.32	8.17	1.30240.1210200
Opaque Red	CKN9334-ND	12.89	10.32	8.17	1.30240.1210300
Opaque Yellow	CKN9335-ND	12.89	10.32	8.17	1.30240.1210400
Opaque Green	CKN9336-ND	12.89	10.32	8.17	1.30240.1210500
Protruding Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9337-ND	20.49	16.40	12.98	1.30240.2211000
Transparent Red, Illuminated	CKN9338-ND	20.49	16.40	12.98	1.30240.2211300
Transparent Yellow, Illuminated	CKN9339-ND	20.49	16.40	12.98	1.30240.2211400
Opaque White	CKN9340-ND	13.92	11.14	8.82	1.30240.3210200
Opaque Red	CKN9341-ND	13.92	11.14	8.82	1.30240.3210300
Opaque Yellow	CKN9342-ND	13.92	11.14	8.82	1.30240.3210400
Opaque Green	CKN9343-ND	13.92	11.14	8.82	1.30240.3210500
Selector Switches					
Momentary 1° x 40°, Illuminated	CKN9344-ND	38.08	30.47	24.12	1.30242.0022200
Momentary 2° x 40°, Illuminated	CKN9345-ND	38.08	30.47	24.12	1.30242.0272200
Latching 1° x 90°, Form L, Illuminated	CKN9346-ND	30.27	24.22	19.18	1.30242.1022200
Latching 1° x 90°, Form V, Illuminated	CKN9347-ND	38.08	30.47	24.12	1.30242.2022200
Latching 2° x 60°, Illuminated	CKN9348-ND	38.08	30.47	24.12	1.30242.3022200
Momentary 1° x 40°	CKN9349-ND	22.35	17.88	14.16	1.30242.5020200
Momentary 2° x 40°	CKN9350-ND	28.09	22.48	17.79	1.30242.5270200
Latching 1° x 90°, Form L	CKN9351-ND	28.09	22.48	17.79	1.30242.6020200
Latching 1° x 90°, Form V	CKN9352-ND	28.09	22.48	17.79	1.30242.7020200
Latching 2° x 60°	CKN9353-ND	28.09	22.48	17.79	1.30242.8020200
Keylock Switches					
Momentary 1° x 40°, Key Removable pos. 0	CKN9354-ND	70.42	56.34	44.61	1.30245.0020000

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Latching 1° x 90°, Form L, Key Removable pos. 0+1	CKN9355-ND	70.42	56.34	44.61	1.30245.2220000
Latching 1° x 90°, Form V, Key Removable pos. 0+1	CKN9356-ND	70.42	56.34	44.61	1.30245.3220000
Latching 2° x 90°, Key Removable pos. 0+1+2	CKN9357-ND	70.42	56.34	44.61	1.30245.4320000
Mushroom Head Pushbutton Switches					
Momentary, Opaque Red 40mm diameter	CKN9358-ND	27.66	22.13	17.52	1.30246.5020300
Latching, Opaque Red 40mm diameter	CKN9359-ND	42.68	34.15	27.04	1.30246.5120300
Emergency Stop Switches					
Opaque Red, 39.8mm diameter	CKN9407-ND	36.06	31.15	26.23	1.30243.5010300
Opaque Red, 39.8mm diameter, Illuminated	CKN9360-ND	56.08	44.87	35.52	1.30243.0010300
Accessories					
Lamps					
Filament Lamp, 12 ~ 15V	CKN9316-ND	6.49	5.20	4.12	1.90060.1320000
Filament Lamp, 24 ~ 30V	CKN9403-ND	6.32	5.06	4.01	1.90060.1330000
Filament Lamp, 110 ~ 130V	CKN9317-ND	13.24	10.59	8.39	1.90060.1370000
Neon Lamp, 220VAC	CKN9318-ND	15.88	12.71	10.06	1.90560.1020000
LED, Superbright Red, 24V	CKN9404-ND	22.35	19.31	16.26	1.90690.3410000
LED, Superbright Green, 24V	CKN9319-ND	43.45	34.77	27.52	1.90690.3420000
LED, Superbright Yellow, 24V	CKN9320-ND	30.48	24.39	19.31	1.90690.3430000
LED, Superbright White, 24V	CKN9321-ND	43.45	34.77	27.52	1.90690.3450000
Lamp Extractor for 22QR	CKN9322-ND	12.38	9.91	7.85	1.90690.0070000
Lamp Socket, Screw Terminal	CKN9327-ND	13.83	11.07	8.76	5.00070.0740000
Contact Blocks					
Screw Terminals, 1NC	CKN9323-ND	14.26	11.41	9.04	5.00100.1390000
Screw Terminals, 1NO	CKN9324-ND	14.26	11.41	9.04	5.00100.1400000
Screw Terminals, 2NC	CKN9325-ND	23.56	18.85	14.93	5.00100.1410000
Screw Terminals, 2NO	CKN9326-ND	23.56	18.85	14.93	5.00100.1420000
Screw Terminals, 1NC + 1NO	CKN9405-ND	17.28	14.93	12.57	5.00100.1430000
Couplings					
Coupling, with Reference Numbers 1-3-2	CKN9406-ND	2.74	2.19	1.74	5.05510.9350000
Coupling, with Reference Numbers 1/2-5/6-3/4	CKN9328-ND	2.74	2.19	1.74	5.05510.9360000

Industrial Control Switch Modules

C&K Components introduces a family of switches for severe operating conditions and heavy-duty applications, such as industrial controls, farm machinery and off-road vehicles.

The AR3 and AR5 Series analog rocker switches provide an ideal proportional function solution and are cost-effective for off-road vehicle applications. Both feature Hall-Effect contactless sensing, with one sensor as standard and an optional second sensor if required.

The SR3 Series is for typical switching functions in off-road machinery, such as dashboards, armrest controls or multifunction grips. These robust rocker switches, based on highly reliable K12 switch technology, have an operating cycle of more than one million cycles.

ESM and DSM Series are single and double switch modules, supplied ready to install with optional cables or connectors. Both modules are protected by silicon rubber caps and sealed to IP65 when mounted.

The RS and QS Series are designed for use in front panels, multi-function grips or other switching units, the QS and RS Series switches provide tactile feedback and positive snap-point action.

Fig. 1

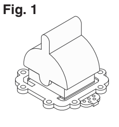

Fig. 2

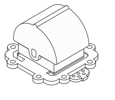

Fig. 3

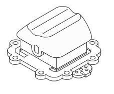

Fig. 4

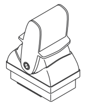

Fig. 5

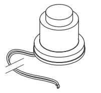

Fig. 6

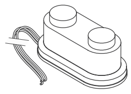

Fig. 7

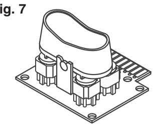

Fig. 8

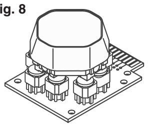

Fig.	Operation Force (gF)	Supply (VDC)	Features	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Hall Effect Analog Rocker Switches — AR3 and AR5 Series								
1	400	8.5 ~ 30	2 Sensors	CKN9506-ND	204.00	163.20	129.20	AR3S 01 GY 30/30 4N 0 V200
	400	5	2 Sensors	CKN9507-ND	150.75	120.60	95.48	AR3S 01 GY 30/30 4N 1 V200
	400	8.5 ~ 30	1 Sensor	CKN9508-ND	105.93	84.75	67.10	AR3S 01 GY 30/30 4N 0 V102
	400	5	1 Sensor	CKN9509-ND	121.87	97.50	77.19	AR3S 01 GY 30/30 4N 1 V102
2	500	8.5 ~ 30	2 Sensors	CKN9510-ND	159.68	127.75	101.14	AR3S 02 GY 30/30 5N 0 V202
	500	5	2 Sensors	CKN9511-ND	150.75	120.60	95.48	AR3S 02 GY 30/30 5N 1 V200
	500	8.5 ~ 30	1 Sensor	CKN9512-ND	130.43	104.34	82.61	AR3S 02 GY 30/30 5N 0 V102
	500	5	1 Sensor	CKN9513-ND	121.87	97.50	77.19	AR3S 02 GY 30/30 5N 1 V102
3	600	8.5 ~ 30	2 Sensors	CKN9514-ND	139.49	111.60	88.35	AR3S 05 GY 30/30 6N 0 V200
	600	5	2 Sensors	CKN9515-ND	150.74	120.60	95.47	AR3S 05 GY 30/30 6N 1 V200
	600	8.5 ~ 30	1 Sensor	CKN9516-ND	130.42	104.34	82.60	AR3S 05 GY 30/30 6N 0 V102
	600	5	1 Sensor	CKN9517-ND	121.87	97.50	77.19	AR3S 05 GY030/30 6N 1 V102
4	400	9 ~ 30	2 Sensors	CKN9518-ND	192.68	154.15	122.04	AR5S DTC BN
Switch Type Rockers — SR3 Series								
1	500	2 ~ 30	2 Switches	CKN9519-ND	28.76	23.01	18.22	SR3S 01 GY 5N/5N 01 R00 M
	500	2 ~ 30	2 Switches	CKN9520-ND	60.39	48.32	38.25	SR3S 01 GY 5N/5N 01 R01 M
2	500	2 ~ 30	2 Switches	CKN9521-ND	28.76	23.01	18.22	SR3S 02 GY 5N/5N 01 R00 M
	500	2 ~ 30	2 Switches	CKN9522-ND	54.85	43.88	34.74	SR3S 02 GY 5N/5N 01 R01 M

(Continued)

Industrial Control Switch Modules *(Cont.)*

Fig.	Operation Force (gF)	Supply (VDC)	Features	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
3	500	2 ~ 30	2 Switches	CKN9523-ND	48.53	38.83	30.74	SR3S 05 GY 5N/5N 01 R00 M
	500	2 ~ 30	2 Switches	CKN9524-ND	60.39	48.32	38.25	SR3S 05 GY 5N/5N 01 R01 M

Fig.	Operation Force (gF)	Cap	Switch Decals	Cable	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
					Switch Modules				
5	500	Yes	—	130mm	CKN9525-ND	18.92	15.14	11.99	ESM K12 1 5N C L130
	500	Yes	—	—	CKN9526-ND	5.33	4.27	3.38	ESM K12 1 5N C
	500	No	—	130mm	CKN9527-ND	14.44	11.56	9.15	ESM K12 1 5N N L130
6	500	Yes	—	130mm	CKN9528-ND	16.09	12.88	10.20	DSM K12 1 5N C L130
	500	Yes	Up-Down	130mm	CKN9529-ND	29.46	23.57	18.66	DSM K12 1 5N C L130 PU PO
	350	Yes	Left-Right	130mm	CKN9530-ND	37.48	29.99	23.74	DSM K12G 1.5 3.5N C L130 PL PR
	350	Yes	Up-Down	130mm	CKN9531-ND	37.48	29.99	23.74	DSM K12G 1.5 3.5N C L130 PO PU
	350	Yes	—	130mm	CKN9532-ND	32.97	26.38	20.89	DSM K12G 1.5 3.5N C L130
7	Rocker Switch Module with 4 Switches				CKN9533-ND	47.02	37.62	29.78	RS2 KRSA BK N C
	Rocker Switch Module with 2 Switches				CKN9534-ND	46.87	37.50	29.69	RS1 KRSA BK N C
	Rocker Switch Module with 4 Switches, Arrows				CKN9535-ND	60.15	48.12	38.10	RS2 KRSA BK S C
	Rocker Switch Module with 2 Switches, Arrows				CKN9536-ND	56.59	45.28	35.84	RS1 KRSA BK S C
8	Quadrant Switch Module with 8 Switches				CKN9537-ND	81.68	65.35	51.73	QS2 KQS1 BK N C
	Quadrant Switch Module with 4 Switches				CKN9538-ND	70.34	56.27	44.55	QS1 KQS1 BK N C
	Quadrant Switch Module with 8 Switches, Arrows				CKN9539-ND	82.33	65.87	52.15	QS2 KQS1 BK S C
	Quadrant Switch Module with 4 Switches, Arrows				CKN9540-ND	70.90	56.73	44.91	QS1 KQS1 BK S C

NEW! Industrial Pushbutton Switches — AP Series

Features: • IP67 sealed • 1,000,000 life cycle • Illumination / non-illumination • Threaded or snap-in mounting • SPST-NO • Caps available seperately **Applications:** • Harsh environments • Off-road • Industrial • Medical • Transportation • Joystick control modules • Gaming • Military **Specifications: *Mechanical*:** • Total Travel: 1.9 ±0.1 mm • Pre-Travel: 1.2 ±0.1 mm • Over Travel: 0.7 ±0.1 mm ***Electrical*: Contact Rating:** • 200mA @ 24 VDC resistive • 100mA @ 50 VDC resistive • 400mA @ 32VAC resistive • 125mA @ 125VAC resistive **Dielectric Strength:** • 1000VAC min. **Insulation Resistance:** • 1 GΩ **Initial Contact Resistance**: • 50mΩ maximum (without wire leads) **Bounce Time:** <5ms **Operating Temperature:** -40°C ~ 85°C (+105°C non-illuminated)

Dimensions in mm

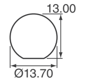

AP Series Panel Cutout

Fig. 1

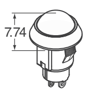

Fig. 2

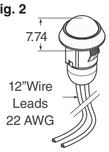

Fig. 3

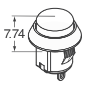

Fig. 4

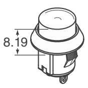

Fig. 5

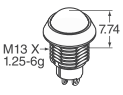

Fig. 6

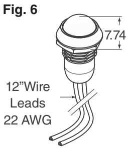

Fig. 7

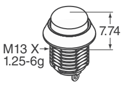

Fig. 8

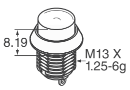

Fig.	Operating Force (Newtons)	Actuator Type	Actuator Color	Illumination Color	Bushing Style (Plastic)	Termination	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	4	Dome/Convex	Black	Super Blue	Snap-in	Solder Lug	CKN9962-ND	17.99	14.40	11.40	AP4D207SZBE
	4	Dome/Convex	Black	Red/Green	Snap-in	Solder Lug	CKN9964-ND	14.56	11.65	9.23	AP4D202SZBE
	4	Dome/Convex	Black	Red	Snap-in	Solder Lug	CKN9965-ND	14.05	11.24	8.90	AP4D203SZBE
	4	Dome/Convex	Black	Green	Snap-in	Solder Lug	CKN9966-ND	14.14	11.32	8.96	AP4D206SZBE
	2	Dome/Convex	Black	Super Blue	Snap-in	Solder Lug	CKN9968-ND	17.99	14.40	11.40	AP2D207SZBE
	4	Extended Dome	Black	Super Blue	Snap-in	Solder Lug	CKN9970-ND	18.10	14.49	11.47	AP4E207SZBE
	2	Extended Dome	Black	Super Blue	Snap-in	Solder Lug	CKN9972-ND	18.10	14.49	11.47	AP2E207SZBE
	2	Dome/Convex	Black	Red/Green	Snap-in	Solder Lug	CKN9974-ND	14.56	11.65	9.23	AP2D202SZBE
	2	Dome/Convex	Black	Red	Snap-in	Solder Lug	CKN9975-ND	14.05	11.24	8.90	AP2D203SZBE
	2	Dome/Convex	Black	Green	Snap-in	Solder Lug	CKN9976-ND	14.14	11.32	8.96	AP2D206SZBE
	4	Extended Dome	Black	Red/Green	Snap-in	Solder Lug	CKN9982-ND	14.67	11.74	9.30	AP4E202SZBE
	2	Extended Dome	Black	Red/Green	Snap-in	Solder Lug	CKN9984-ND	14.67	11.74	9.30	AP2E202SZBE
2	4	Dome/Convex	Black	No LED	Snap-in	12" wire leads, 22 AWG	CKN9977-ND	17.78	14.22	11.26	AP4D200SWBE
	2	Dome/Convex	Black	No LED	Snap-in	12" wire leads, 22 AWG	CKN9978-ND	17.78	14.22	11.26	AP2D200SWBE
	4	Extended Dome	Black	No LED	Snap-in	12" wire leads, 22 AWG	CKN9979-ND	17.88	14.31	11.33	AP4E200SWBE
	2	Extended Dome	Black	No LED	Snap-in	12" wire leads, 22 AWG	CKN9980-ND	17.88	14.31	11.33	AP2E200SWBE
3	4	Dome/Convex	Black	No LED	Snap-in	Solder Lug	CKN9961-ND	13.49	10.79	8.55	AP4D200SZBE
	4	Dome/Convex	Red	No LED	Snap-in	Solder Lug	CKN9963-ND	13.56	10.86	8.59	AP4D300SZBE
	2	Dome/Convex	Black	No LED	Snap-in	Solder Lug	CKN9967-ND	13.49	10.79	8.55	AP2D200SZBE
	4	Extended Dome	Black	No LED	Snap-in	Solder Lug	CKN9969-ND	13.59	10.88	8.61	AP4E200SZBE
	2	Extended Dome	Black	No LED	Snap-in	Solder Lug	CKN9971-ND	13.59	10.88	8.61	AP2E200SZBE
	2	Dome/Convex	Red	No LED	Snap-in	Solder Lug	CKN9973-ND	13.56	10.86	8.59	AP2D300SZBE
	4	Extended Dome	Red	No LED	Snap-in	Solder Lug	CKN9981-ND	13.67	10.94	8.66	AP4E300SZBE
	2	Extended Dome	Red	No LED	Snap-in	Solder Lug	CKN9983-ND	13.67	10.94	8.66	AP2E300SZBE
4	4	Concave	Red	No LED	Snap-in	Solder Lug	CKN9985-ND	13.67	10.94	8.66	AP4C300SZBE
	2	Concave	Red	No LED	Snap-in	Solder Lug	CKN9986-ND	13.67	10.94	8.66	AP2C300SZBE
5	4	Dome/Convex	Black	Red/Green	Threaded	Solder Lug	CKN9990-ND	15.44	12.35	9.78	AP4D202TZBE
	4	Dome/Convex	Black	Red	Threaded	Solder Lug	CKN9991-ND	14.92	11.94	9.45	AP4D203TZBE
	4	Dome/Convex	Black	Green	Threaded	Solder Lug	CKN9992-ND	15.01	12.01	9.51	AP4D206TZBE
	4	Extended Dome	Black	Super Blue	Threaded	Solder Lug	CKN9996-ND	18.98	15.19	12.02	AP4E207TZBE
	2	Dome/Convex	Black	Super Blue	Threaded	Solder Lug	CKN9994-ND	18.87	15.10	11.95	AP2D207TZBE
	2	Extended Dome	Black	Super Blue	Threaded	Solder Lug	CKN9998-ND	18.98	15.19	12.02	AP2E207TZBE
	2	Dome/Convex	Black	Red/Green	Threaded	Solder Lug	CKN10000-ND	15.44	12.35	9.78	AP2D202TZBE
	2	Dome/Convex	Black	Red	Threaded	Solder Lug	CKN10001-ND	14.92	11.94	9.45	AP2D203TZBE
	2	Dome/Convex	Black	Green	Threaded	Solder Lug	CKN10002-ND	15.01	12.01	9.51	AP2D206TZBE
	4	Extended Dome	Black	Red/Green	Threaded	Solder Lug	CKN10008-ND	15.54	12.44	9.85	AP4E202TZBE
	2	Extended Dome	Black	Red/Green	Threaded	Solder Lug	CKN10010-ND	15.54	12.44	9.85	AP2E202TZBE
	4	Dome/Convex	Black	Super Blue	Threaded	Solder Lug	CKN10013-ND	18.87	15.10	11.95	AP4D207TZBE
6	4	Dome/Convex	Black	No LED	Threaded	12" wire leads, 22 AWG	CKN10003-ND	18.65	14.92	11.82	AP4D200TWBE
	2	Dome/Convex	Black	No LED	Threaded	12" wire leads, 22 AWG	CKN10004-ND	18.65	14.92	11.82	AP2D200TWBE
	4	Extended Dome	Black	No LED	Threaded	12" wire leads, 22 AWG	CKN10005-ND	18.76	15.01	11.89	AP4E200TWBE
	2	Extended Dome	Black	No LED	Threaded	12" wire leads, 22 AWG	CKN10006-ND	18.76	15.01	11.89	AP2E200TWBE
7	4	Dome/Convex	Black	No LED	Threaded	Solder Lug	CKN9987-ND	14.36	11.49	9.10	AP4D200TZBE
	4	Dome/Convex	Red	No LED	Threaded	Solder Lug	CKN9989-ND	14.44	11.55	9.15	AP4D300TZBE
	2	Dome/Convex	Black	No LED	Threaded	Solder Lug	CKN9993-ND	14.36	11.49	9.10	AP2D200TZBE
	4	Extended Dome	Black	No LED	Threaded	Solder Lug	CKN9995-ND	14.47	11.58	9.17	AP4E200TZBE
	2	Extended Dome	Black	No LED	Threaded	Solder Lug	CKN9997-ND	14.47	11.58	9.17	AP2E200TZBE
	2	Dome/Convex	Red	No LED	Threaded	Solder Lug	CKN9999-ND	14.44	11.55	9.15	AP2D300TZBE
	4	Extended Dome	Red	No LED	Threaded	Solder Lug	CKN10007-ND	14.54	11.64	9.22	AP4E300TZBE
	2	Extended Dome	Red	No LED	Threaded	Solder Lug	CKN10009-ND	14.54	11.64	9.22	AP2E300TZBE
8	4	Concave	Red	No LED	Threaded	Solder Lug	CKN10011-ND	14.54	11.64	9.22	AP4C300TZBE
	2	Concave	Red	No LED	Threaded	Solder Lug	CKN10012-ND	14.54	11.64	9.22	AP2C300TZBE

Vandal-Proof MSM Switches

The MSM Vandal proof stainless steel switch is available in 16, 19, 22 and 30mm. This robust switch is built for tough environments and carries a water-resistant rating of IP67, making it ideal for use in equipment exposed to the liquid spills, drips, leaks or wash-downs. The MSM series provides maximum switching power over a voltage range of 30 VDC ~ 250 VAC and a current range of 0.1 ~ 10 amps. Impressive impact resistant ratings of IK06 for the 16mm and IK07 on the 19, 22 and 30 mm sizes makes it ideal for use in environments where the switch can be subject to heavy use or impact. The switch can also operate under varying temperature conditions as low as -25°C ~ -40°C and as high as 85°C. A flat front construction of only 1.7mm height provides a nearly flush mounting to the panel surface, which makes it less conspicuous and therefore less likely to be knocked or battered from the side. The MSM's rugged stainless steel construction is available in momentary, latching action, single and double pole versions with additional options such as standard or custom legends and point, ring illuminated or backlighted versions in assorted colors. ***Note: Lettered version (LE) available, please refer to data sheet on Digi-Key website for more information.***

Standard (Non-Illuminated), Ring Illumination and Backlighted Types

Fig.	Mounting Diameter (mm)	Switching	No. of Poles	Illumination Color	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
				MSM Standard and MSM Latching Standard (Non-Illuminated)					
1	16	Momentary	1	—	486-1182-ND	15.98	12.79	11.51	1241.6611.1120000
	19	Momentary	1	—	486-1183-ND	16.74	13.39	12.06	1241.6621.1120000
	19	Momentary	1	—	486-1455-ND‡ ***NEW!***	19.25	15.40	13.86	1241.6621.1180000
	22	Momentary	1	—	486-1186-ND	18.91	15.13	13.62	1241.6631.1120000
	22	Momentary	1	—	486-1457-ND‡ ***NEW!***	21.75	17.40	15.66	1241.6631.1180000
	30	Momentary	1	—	486-1193-ND	30.27	24.22	21.80	1241.6661.1120000
	22	Momentary	1	—	486-1132-ND▲	22.03	17.62	15.86	1241.6695.1120000
	19	Latching	1	—	486-1444-ND ***NEW!***	23.85	19.08	17.18	1241.6821.1110000
	19	Latching	2	—	486-1436-ND ***NEW!***	25.11	20.09	18.08	1241.6821.1120000
	22	Latching	1	—	486-1451-ND ***NEW!***	26.94	21.56	19.40	1241.6831.1110000
	22	Latching	1	—	486-1440-ND ***NEW!***	28.36	22.69	20.42	1241.6831.1120000
	19	Momentary	2	—	486-1418-ND ***NEW!***	21.76	17.41	15.67	1241.6921.1120000
	22	Momentary	2	—	486-1425-ND ***NEW!***	24.58	19.66	17.70	1241.6931.1120000
	30	Momentary	2	—	486-1432-ND ***NEW!***	34.81	27.85	25.07	1241.6961.1120000
				MSM Ring Illuminated and MSM Latching Ring Illuminated					
2	19	Momentary	1	Red	486-1184-ND	50.17	40.14	36.13	1241.6624.1121000
	19	Momentary	1	Green	486-1185-ND	50.17	40.14	36.13	1241.6624.1122000
	19	Momentary	1	Blue	486-1191-ND	53.73	42.99	38.69	1241.6624.1124000
	19	Momentary	1	Red	486-1456-ND‡ ***NEW!***	57.70	46.16	41.55	1241.6624.1181000
	22	Momentary	1	Red	486-1187-ND	52.14	41.71	37.54	1241.6634.1121000
	22	Momentary	1	Green	486-1188-ND	52.14	41.71	37.54	1241.6634.1122000
	22	Momentary	1	Blue	486-1192-ND	55.86	44.69	40.23	1241.6634.1124000
	22	Momentary	1	Red	486-1458-ND‡ ***NEW!***	59.96	47.97	43.17	1241.6634.1181000
	30	Momentary	1	Blue	486-1131-ND	63.49	50.79	45.71	1241.6664.1124000
	19	Latching	2	Red	486-1437-ND ***NEW!***	60.20	48.17	43.35	1241.6824.1121000
	19	Latching	2	Green	486-1438-ND ***NEW!***	60.20	48.17	43.35	1241.6824.1122000
	19	Latching	2	Blue	486-1439-ND ***NEW!***	64.48	51.59	46.43	1241.6824.1124000
	22	Latching	2	Red	486-1441-ND ***NEW!***	62.57	50.06	45.05	1241.6834.1121000
	22	Latching	2	Green	486-1442-ND ***NEW!***	62.57	50.06	45.05	1241.6834.1122000
	22	Latching	2	Blue	486-1443-ND ***NEW!***	67.03	53.63	48.27	1241.6834.1124000
	19	Latching	1	Red	486-1448-ND ***NEW!***	57.19	45.76	41.18	1241.6824.1111000
	19	Latching	1	Green	486-1449-ND ***NEW!***	57.19	45.76	41.18	1241.6824.1112000
	19	Latching	1	Blue	486-1450-ND ***NEW!***	61.26	49.01	44.11	1241.6824.1114000
	22	Latching	1	Red	486-1452-ND ***NEW!***	59.44	47.55	42.80	1241.6834.1111000
	22	Latching	1	Green	486-1453-ND ***NEW!***	59.44	47.55	42.80	1241.6834.1112000
	22	Latching	1	Blue	486-1454-ND ***NEW!***	63.68	50.95	45.86	1241.6834.1114000
	19	Momentary	2	Red	486-1422-ND ***NEW!***	57.70	46.16	41.55	1241.6924.1121000
	19	Momentary	2	Green	486-1423-ND ***NEW!***	57.70	46.16	41.55	1241.6924.1122000
	19	Momentary	2	Blue	486-1424-ND ***NEW!***	61.79	49.44	44.50	1241.6924.1124000
	22	Momentary	2	Red	486-1429-ND ***NEW!***	59.96	47.97	43.17	1241.6934.1121000
	22	Momentary	2	Green	486-1430-ND ***NEW!***	59.96	47.97	43.17	1241.6934.1122000
	22	Momentary	2	Blue	486-1431-ND ***NEW!***	64.24	51.40	46.26	1241.6934.1124000
	30	Momentary	2	Red	486-1434-ND ***NEW!***	68.23	54.59	49.13	1241.6964.1121000
	30	Momentary	2	Green	486-1435-ND ***NEW!***	68.23	54.59	49.13	1241.6964.1122000
				NEW! MSM CS Standard (Non-Illuminated) NEW!					
1	19	Momentary	1	—	486-1485-ND	34.48	27.59	24.83	1241.7021.1110000
	19	Momentary	1	—	486-1486-ND	33.48	26.78	24.11	1241.7021.1120000
	19	Momentary	1	—	486-1487-ND	34.48	27.59	24.83	1241.7021.1130000
	22	Momentary	1	—	486-1500-ND	37.93	30.35	27.31	1241.7031.1110000
	22	Momentary	1	—	486-1501-ND	36.82	29.46	26.52	1241.7031.1120000
	22	Momentary	1	—	486-1502-ND	37.93	30.35	27.31	1241.7031.1130000
				NEW! MSM CS Backlighted NEW!					
2	19	Momentary	1	Red	486-1491-ND	49.72	39.78	35.80	1241.7026.1111000
	19	Momentary	1	Green	486-1492-ND	49.72	39.78	35.80	1241.7026.1112000
	19	Momentary	1	Blue	486-1493-ND	53.20	42.56	38.31	1241.7026.1114000
	19	Momentary	1	Red	486-1494-ND	49.21	39.37	35.43	1241.7026.1121000
	19	Momentary	1	Green	486-1495-ND	49.21	39.37	35.43	1241.7026.1122000
	19	Momentary	1	Blue	486-1496-ND	52.65	42.13	37.91	1241.7026.1124000
	19	Momentary	1	Red	486-1497-ND	49.72	39.78	35.80	1241.7026.1131000
	19	Momentary	1	Green	486-1498-ND	49.72	39.78	35.80	1241.7026.1132000
	19	Momentary	1	Blue	486-1499-ND	53.20	42.56	38.31	1241.7026.1134000
	22	Momentary	1	Red	486-1506-ND	52.74	42.19	37.98	1241.7036.1111000
	22	Momentary	1	Green	486-1507-ND	52.74	42.19	37.98	1241.7036.1112000
	22	Momentary	1	Blue	486-1508-ND	56.43	45.15	40.63	1241.7036.1114000
	22	Momentary	1	Red	486-1509-ND	51.20	40.97	36.87	1241.7036.1121000
	22	Momentary	1	Green	486-1510-ND	52.74	42.19	37.98	1241.7036.1122000
	22	Momentary	1	Blue	486-1511-ND	56.43	45.15	40.63	1241.7036.1124000
	22	Momentary	1	Red	486-1512-ND	52.74	42.19	37.98	1241.7036.1131000
	22	Momentary	1	Green	486-1513-ND	52.74	42.19	37.98	1241.7036.1132000
	22	Momentary	1	Blue	486-1514-ND	56.43	45.15	40.63	1241.7036.1134000
				NEW! MSM CS Backlighted with International On-Off Symbol NEW!					
2A	19	Momentary	1	Blue	486-1533-ND	54.23	43.39	39.05	1241.7026.1124074
	22	Momentary	1	Red	486-1534-ND	52.74	42.19	37.98	1241.7036.1121074

▲ Snap-In version (see Fig. 3B)   ‡ IP 67 Microswitch

Point Illumination Types

Fig.	Mounting Diameter (mm)	Switching	No. of Poles	Illuminator Color	IF Max. (mA)	VF @ 10mA Typ.(V)	VF Max. (V)	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
3A	19	Momentary	1	Blue	20	3.2	3.7	486-1189-ND	34.48	27.59	24.83	1241.6623.1124000
	22	Momentary	1	Blue	20	3.2	3.7	486-1190-ND	34.64	27.72	24.95	1241.6633.1124000
	19	Latching	1	Red	40	2.0	2.5	486-1445-ND ***NEW!***	40.86	32.69	29.42	1241.6823.1111000
	19	Latching	1	Green	40	2.0	2.5	486-1446-ND ***NEW!***	40.86	32.69	29.42	1241.6823.1112000
	19	Latching	1	Blue	20	3.2	3.7	486-1447-ND ***NEW!***	43.72	34.98	31.49	1241.6823.1114000
	19	Momentary	2	Red	40	2.0	2.5	486-1419-ND ***NEW!***	36.23	28.98	26.09	1241.6923.1121000
	19	Momentary	2	Green	40	2.0	2.5	486-1420-ND ***NEW!***	36.23	28.98	26.09	1241.6923.1122000
	19	Momentary	2	Blue	20	3.2	3.7	486-1421-ND ***NEW!***	38.81	31.05	27.95	1241.6923.1124000
	22	Momentary	2	Red	40	2.0	2.5	486-1426-ND ***NEW!***	37.19	29.76	26.78	1241.6933.1121000
	22	Momentary	2	Green	40	2.0	2.5	486-1427-ND ***NEW!***	37.19	29.76	26.78	1241.6933.1122000
	22	Momentary	2	Blue	20	3.2	3.7	486-1428-ND ***NEW!***	39.84	31.87	28.69	1241.6933.1124000
	30	Momentary	2	Green	40	2.0	2.5	486-1433-ND ***NEW!***	51.88	41.51	37.36	1241.6963.1122000
3B	22	Momentary	1	Red	40	1.6	2.0	486-1133-ND▲	37.68	30.15	27.13	1241.6693.1121000
	22	Momentary	1	Green	40	2.0	2.6	486-1134-ND▲	37.68	30.15	27.13	1241.6693.1122000

▲ Snap-In version

Mounting Diameter (mm)	Dimensions – mm Switch Width from Front A	Mounting Hole and Threads B	Mounting Hole and Threads C
16†	19	M16 x 1	15.15 ±0.05
19	22	M19 x 0.75	18.15 ±0.05
22	25	M22 x 1	21.15 ±0.05
30	34	M30 x 1.5	28.85 ±0.05

† 16mm MSM ST/LE versions only

Fig. 1 — MSM ST/ LE
MSM LA ST/ LE
MSM CS ST

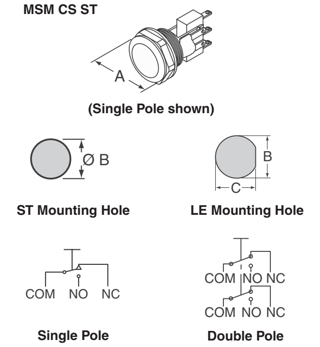

(Single Pole shown)

ST Mounting Hole   **LE Mounting Hole**

Single Pole   **Double Pole**

Fig. 2 — MSM RI
MSM LA RI
MSM CS BL

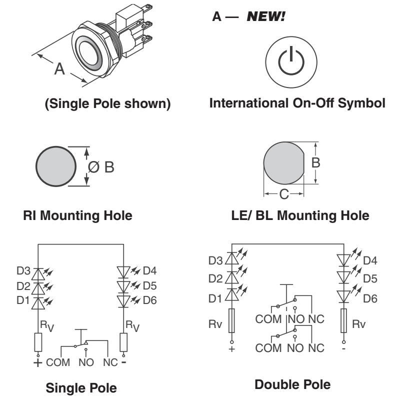

(Single Pole shown)   **International On-Off Symbol**

RI Mounting Hole   **LE/ BL Mounting Hole**

Single Pole   **Double Pole**

Fig. 3 — MSM PI
MSM LA PI *NEW!*

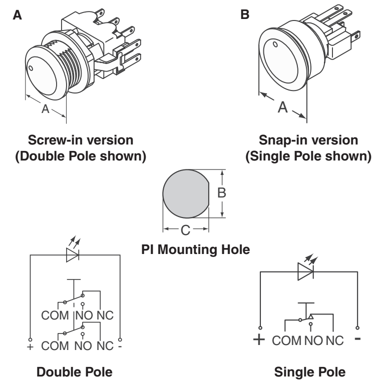

Screw-in version (Double Pole shown)   **Snap-in version (Single Pole shown)**

PI Mounting Hole

Double Pole   **Single Pole**

BULGIN Stainless Steel Vandal Resistant Panel Mount Switches

RoHS

Dimensions in mm

Fig. 1

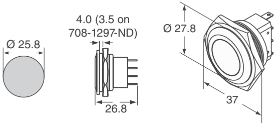

Fig. 2

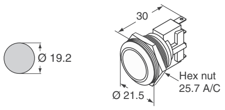

Fig. 3

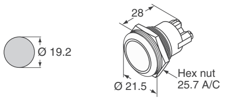

Fig. 4

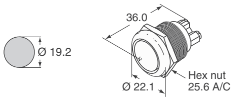

Fig. 5

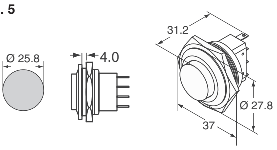

Fig. 6

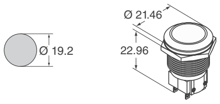

Fig. 7

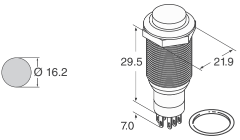

Fig. 8

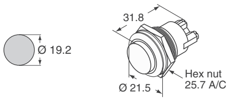

Fig. 9

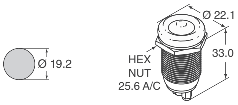

Fig. 10

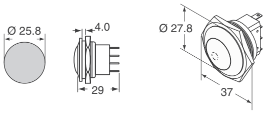

Fig. 11

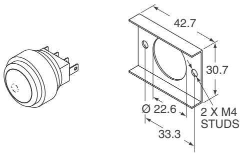

Fig. 12

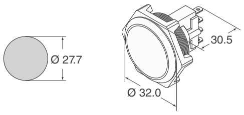

Fig. 13

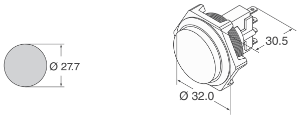

Fig. 14 *Screw Terminals Shown*

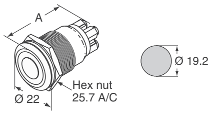

Terminal Type	Dim. A (mm)
Solder	32.7
Screw	31.0

Fig. 15 *Solder Terminals Shown*

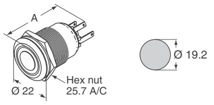

Terminal Type	Dim. A (mm)
Solder	32.7
Screw	31.0

Fig.	Circuit	Switching Function	Ratings	Terminal	Features	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
					Non-Illuminated					
1	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Low Profile	708-1294-ND	18.97	17.89	16.83	MP0027
	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Low Profile, IP66	708-1297-ND	19.05	17.98	16.95	MP0038
	SPST	ALT ACT	2A @ 50V	Solder Lug	Front Mount, Low Profile	708-1454-ND	30.84	28.70	25.39	MPL027
2	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Low Profile, IP66	708-1300-ND	17.07	16.11	15.14	MP0031
	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Prominent Button, IP66	708-1302-ND	21.32	19.58	17.41	MP0031/3
	SPST	ALT ACT	2A @ 50V	Solder Lug	Front Mount, Low Profile, IP66	708-1455-ND	25.17	23.40	20.71	MPL031
3	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Low Profile, IP68	708-1303-ND	11.35	10.68	10.01	MP0037
	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Domed, IP68	708-1305-ND	15.74	14.45	12.85	MP0037/3
4	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Low Profile, Sealed	708-1306-ND	8.16	7.70	7.25	MP0013
5	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Prominent Button, IP66	708-1298-ND	23.35	21.45	19.06	MP0038/2
6	DPDT	ON (OFF)	3A @ 125A	Solder Lug	Front Mount, Low Profile, IP66	708-1438-ND	19.97	18.34	16.29	MPD031
7	DPDT	ON (OFF)	3A @ 250V	Solder Lug	Front Mount, Prominent Button	708-1434-ND	11.55	—	—	MP0045/3D0NN000
	DPDT	ALT ACT	3A @ 250V	Solder Lug	Front Mount, Prominent Button	708-1435-ND	12.08	—	—	MP0045/3E0NN000
8	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Prominent Button, IP68	708-1304-ND	15.74	14.45	12.85	MP0037/2
9	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Low Profile	708-1432-ND	13.28	12.61	11.81	MP0033
	SPST-NO	OFF (ON)	1A @ 50V	Screw	Front Mount, Prominent Button	708-1433-ND	16.60	15.75	14.76	MP0033/2
10	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Domed	708-1296-ND	22.44	20.61	18.32	MP0027/3
11	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Rear Mount, Prominent Button	708-1431-ND	22.44	20.61	18.32	MP0025/2
12	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Low Profile	708-1436-ND	28.30	26.93	25.39	MP0050
13	SPDT	ON (ON)	5A @ 250VAC	Solder Lug	Front Mount, Protruding Button	708-1437-ND	28.30	26.93	25.39	MP0050/2
					LED Illumination					
14	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red Dot Illuminated	708-1313-ND	24.12	22.15	19.69	MPI001/TERM/RD
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Green Dot Illuminated	708-1317-ND	24.12	22.15	19.69	MPI001/TERM/GN
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Blue Dot Illuminated	708-1316-ND	26.65	24.48	21.76	MPI001/TERM/BL
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Amber Dot Illuminated	708-1443-ND	25.38	23.31	20.72	MPI001/TERM/AM
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	White Dot Illuminated	708-1446-ND	28.92	26.56	23.58	MPI001/TERM/WH
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red/Green Dot Illuminated	708-1444-ND	28.92	26.56	23.58	MPI001/TERM/D1
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red/Blue Dot Illuminated	708-1445-ND	28.92	26.56	23.58	MPI001/TERM/D4
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red Dot Illuminated	708-1312-ND	23.35	21.45	19.06	MPI001/28/RD
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Green Dot Illuminated	708-1314-ND	23.35	21.45	19.06	MPI001/28/GN
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Blue Dot Illuminated	708-1315-ND	25.89	23.78	21.14	MPI001/28/BL
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Amber Dot Illuminated	708-1439-ND	24.62	22.61	20.10	MPI001/28/AM
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	White Dot Illuminated	708-1442-ND	28.92	26.56	23.58	MPI001/28/WH
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red/Green Dot Illuminated	708-1440-ND	28.92	26.56	23.58	MPI001/28/D1
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red/Blue Dot Illuminated	708-1441-ND	28.92	26.56	23.58	MPI001/28/D4
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red Ring Illuminated	708-1319-ND	24.12	22.15	19.69	MPI002/TERM/RD
15	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Green Ring Illuminated	708-1323-ND	24.12	22.15	19.69	MPI002/TERM/GN
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Blue Ring Illuminated	708-1322-ND	26.65	24.48	21.76	MPI002/TERM/BL
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Amber Ring Illuminated	708-1450-ND	25.38	23.31	20.72	MPI002/TERM/AM
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	White Ring Illuminated	708-1453-ND	28.92	26.56	23.58	MPI002/TERM/WH
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red/Green Ring Illuminated	708-1451-ND	28.92	26.56	23.58	MPI002/TERM/D1
	SPST-NO	OFF (ON)	50mA @ 24VDC	Screw	Red/Blue Ring Illuminated	708-1452-ND	28.92	26.56	23.58	MPI002/TERM/D4
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red Ring Illuminated	708-1318-ND	23.35	21.45	19.06	MPI002/28/RD
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Green Ring Illuminated	708-1320-ND	23.35	21.45	19.06	MPI002/28/GN
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Blue Ring Illuminated	708-1321-ND	25.89	23.78	21.14	MPI002/28/BL
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Amber Ring Illuminated	708-1447-ND	24.62	22.61	20.10	MPI002/28/AM
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red/Green Ring Illuminated	708-1448-ND	28.92	26.56	23.58	MPI002/28/D1
	SPST-NO	OFF (ON)	50mA @ 24VDC	Solder Lug	Red/Blue Ring Illuminated	708-1449-ND	28.92	26.56	23.58	MPI002/28/D4

I

Grayhill Pushbutton Switches 30 Series

RoHS

Features: • Convenient Snap-in Panel Mounting • SPST NO (Momentary Contact) • Gold Plated Contacts • Sealed • IP67

Material: • Terminal: Brass, gold-plated over nickel • Shorting Bar: Brass, gold plated over nickel • Internal Seal: Silicon Rubber • O-ring Seal: Silicon

Ratings: • Cycles: 500,000 Actuations • Operating Temperature: -40°C ~ 80°C • Voltage Breakdown: 1000VAC between mutually insulated parts • Contact Resistance: 25MΩ maximum on new switch • Insulation: 1,000MΩ minimum

Button Color	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
Black	GH7268-ND	4.75	3.57	3.05	30-100
Red	GH7269-ND	4.75	3.57	3.05	30-101
Green	GH7270-ND	4.75	3.57	3.05	30-102
Yellow	GH7271-ND	4.75	3.57	3.05	30-103
Orange	GH7272-ND	4.75	3.57	3.05	30-104

Dimensions in Inch (mm)

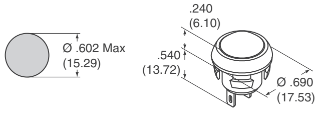

OMRON A16 Series 16mm Switches

RoHS COMPLIANT

The A16 series design allows users to make any switch arrangement needed. By changing the rear switch block, users can have a SPDT or a DPDT with LED or incandescent illumination. Changing the rear switch block or lamp is a snap with Omron's exclusive extraction tool. Panel installation is easy, cut your hole and insert the switch into the front of the panel and fix the lock ring and mounting nut from the back of the panel using Omron's fitting wrench to tighten the nut. Switches are sold as a complete assembly with switch block and lamp options available.

Specifications:
• **Rating Contacts:** 250VAC: 3A (resistive); 125VAC: 5A (resistive); 30VDC: 3A (resistive) • **LED Indicators:** Rated Voltage: 24VDC; Rated Current: 10mA; Operating Voltage: 24VDC±5% • **Dielectric Strength:** 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity • **Life Expectancy:** 100,000 operations minimum • **Operating Temperature:** -10°C ~ 55°C • **Ambient humidity:** Operating 35% ~ 80% • **Degree of protection:** IP65

Pushbutton Switches 16mm

Fig. 1 — Square

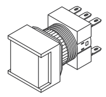

Fig. 2 — Rectangular

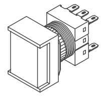

Fig. 3 — Round

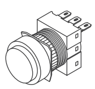

Fig.	Switch Type	Cont. Blocks Include	Illumin. Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
					Non-Illuminated Momentary Switches				
1	Square/Flush Button	DPDT	—	Blue	Z1312-ND	17.81	16.49	15.39	A165-AAM-2
		DPDT	—	Black	Z1313-ND	17.63	16.33	15.24	A165-ABM-2
		DPDT	—	Green	Z1314-ND	17.63	16.33	15.24	A165-AGM-2
		DPDT	—	White	Z1316-ND	17.81	16.49	15.39	A165-AWM-2
		DPDT	—	Yellow	Z1317-ND	17.63	16.33	15.24	A165-AYM-2
2	Rectangular/Flush Button	DPDT	—	Black	Z1318-ND	17.63	16.33	15.24	A165-JBM-2
		DPDT	—	Green	Z1319-ND	17.63	16.33	15.24	A165-JGM-2
		DPDT	—	Red	Z1320-ND	17.63	16.33	15.24	A165-JRM-2
		DPDT	—	White	Z1321-ND	17.63	16.33	15.24	A165-JWM-2
		DPDT	—	Yellow	Z1322-ND	17.63	16.33	15.24	A165-JYM-2
3	Round/Extended Button	SPDT	—	Blue	Z1323-ND	15.78	14.62	13.64	A165-TAM-1
		SPDT	—	Black	Z1324-ND	15.78	14.62	13.64	A165-TBM-1
		SPDT	—	Green	Z1325-ND	15.78	14.62	13.64	A165-TGM-1
		SPDT	—	Red	Z1326-ND	15.78	14.62	13.64	A165-TRM-1
		SPDT	—	White	Z1327-ND	15.78	14.62	13.64	A165-TWM-1
		SPDT	—	Yellow	Z1328-ND	15.78	14.62	13.64	A165-TYM-1
					Illuminated Momentary Switches				
1	Square/Flush Button	DPDT	24VDC	Green	Z1300-ND	21.88	20.26	18.91	A165L-AGM-24D-2
		DPDT	24VDC	Red	Z1301-ND	21.88	20.26	18.91	A165L-ARM-24D-2
		DPDT	24VDC	White	Z1302-ND	21.88	20.26	18.91	A165L-AWM-24D-2
		DPDT	24VDC	Yellow	Z1303-ND	21.88	20.26	18.91	A165L-AYM-24D-2
2	Rectangular/Flush Button	DPDT	24VDC	Green	Z1304-ND	21.88	20.26	18.91	A165L-JGM-24D-2
		DPDT	24VDC	Red	Z1305-ND	21.88	20.26	18.91	A165L-JRM-24D-2
		DPDT	24VDC	White	Z1306-ND	21.88	20.26	18.91	A165L-JWM-24D-2
		DPDT	24VDC	Yellow	Z1307-ND	21.88	20.26	18.91	A165L-JYM-24D-2
3	Round/Extended Button	DPDT	24VDC	Green	Z1308-ND	21.88	20.26	18.91	A165L-TGM-24D-2
		DPDT	24VDC	Red	Z1309-ND	21.88	20.26	18.91	A165L-TRM-24D-2
		DPDT	24VDC	White	Z1310-ND	21.88	20.26	18.91	A165L-TWM-24D-2
		DPDT	24VDC	Yellow	Z1311-ND	21.88	20.26	18.91	A165L-TYM-24D-2

Emergency Stop Switches

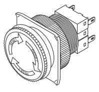

Omron's 16mm Emergency stop switches have a positive opening mechanism with minimum contact separation of 3mm in accordance with EN60947-5-1. Includes a safety lock mechanism to prevent malfunction. "Turn to Reset" operation to prevent unintentional resetting. Clearly visible red button with IP65 oil resistant seal. **Contacts:** 5A@110VAC/3A 30VDC

Switch Type	Illumination Voltage	Contact	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
30-dia.Head	—	SPST-NC	Z1427-ND	39.25	36.35	33.93	A165E-S-01
Push-lock	—	DPST-NC	Z1428-ND	47.87	44.33	41.38	A165E-S-02
Turn-Reset	24VDC	SPST-NC	Z1425-ND	53.23	49.29	46.00	A165E-LS-24D-01
Turn-Reset	24VDC	DPST-NC	Z1426-ND	61.85	57.28	53.46	A165E-LS-24D-02
Emergency Stop Plate, 45mm dia., Yellow			Z1435-ND	4.29	3.97	3.71	A16Z-5070

16mm Accessories

Fig. 1

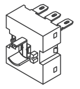

Fig. 2

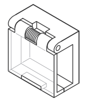

Fig. 3

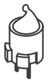

Fig. 4

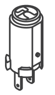

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Repl. Switch Block - SPDT, Solder Term.	Z1330-ND	6.95	6.44	6.01	A16-1
	Repl. Switch Block - DPDT, Solder Term.	Z1331-ND	9.01	8.35	7.79	A16-2
	Repl. Switch Block - SPDT, PCB Term.	Z1332-ND	10.51	9.73	9.08	A16-1P
	Repl. Switch Block - DPDT, PCB Term.	Z1333-ND	12.69	11.75	10.97	A16-2P
2	Switch Guard, Square & Round, Black	Z1337-ND	5.73	5.31	4.96	A16ZA-5050
	Switch Guard, Rectangular	Z1338-ND	5.73	5.31	4.96	A16ZJ-5050
3	Repl. Neon Lamp, 110V, Red	Z1342-ND	4.68	4.34	4.05	A16-1NRN
	Repl. Neon Lamp, 110V, Green	Z1343-ND	7.69	7.12	6.65	A16-1NGN
4	Repl. Led Lamp, 24VDC, Red	Z1584-ND	5.05	4.68	4.37	A16-24DSR
	Repl. Led Lamp, 24VDC, Yellow	Z1585-ND	5.05	4.68	4.37	A16-24DSY
	Repl. Led Lamp, 24VDC, Green	Z1586-ND	5.05	4.68	4.37	A16-24DSG
	Repl. Led Lamp, 24VDC, White	Z1587-ND	5.05	4.68	4.37	A16-24DSW
—	Fitting Wrench for Tightening Lock Nuts	Z1436-ND	7.56	7.00	6.53	A3B-3004
	Extractor for Lamp and Switch Removal	Z1437-ND	4.02	3.73	3.48	A16Z-5080

M16 Pilot Lights

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Fig. 1

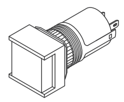

Fig. 2

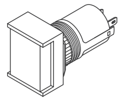

Fig. 3

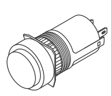

Fig.	Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	24VDC @ 10mA	Green	Z1349-ND	15.53	14.39	13.43	M165-AG-24D
	Square	24VDC @ 10mA	Red	Z1350-ND	11.60	10.75	10.03	M165-AR-24D
	Square	24VDC @ 10mA	White	Z1351-ND	15.53	14.39	13.43	M165-AW-24D
	Square	24VDC @ 10mA	Yellow	Z1352-ND	15.53	14.39	13.43	M165-AY-24D
2	Rectangular	24VDC @ 10mA	Green	Z1354-ND	10.80	10.00	9.34	M165-JG-24D
	Rectangular	24VDC @ 10mA	Red	Z1355-ND	15.53	14.39	13.43	M165-JR-24D
	Rectangular	24VDC @ 10mA	White	Z1356-ND	15.53	14.39	13.43	M165-JW-24D
	Rectangular	24VDC @ 10mA	Yellow	Z1357-ND	15.53	14.39	13.43	M165-JY-24D
3	Round	24VDC @ 10mA	Green	Z1359-ND	15.53	14.39	13.43	M165-TG-24D
	Round	24VDC @ 10mA	Red	Z1360-ND	15.53	14.39	13.43	M165-TR-24D
	Round	24VDC @ 10mA	White	Z1361-ND	15.53	14.39	13.43	M165-TW-24D
	Round	24VDC @ 10mA	Yellow	Z1362-ND	15.53	14.39	13.43	M165-TY-24D

16mm Buzzer Unit M2BJ Series

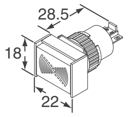

Intermittent or continuous sound selected by jumper setting.
Supply Voltage: 12 ~ 24VDC/AC

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Standard Pitch Sound, Selectable	Z2745-ND	32.31	29.92	27.93	M2BJ-B24
Intermittent Sound, Selectable	Z2746-ND	33.88	31.38	29.29	M2BJ-B24A
High Pitch Intermittent Sound, Selectable	Z2747-ND	42.66	39.50	36.87	M2BJ-B24B

Key Type Selector Switches

Fig. 1

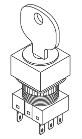

Fig. 2

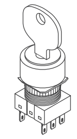

Fig.	Type	No. of Electrical Positions	Contact	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	2 Position	DPDT	On	Mom	—	1	Z1399-ND	42.36	39.23	36.61	A165K-A2AL-2
	Square	2 Position	DPDT	On	On	—	1, 2	Z1400-ND	42.36	39.23	36.61	A165K-A2M-2
	Square	2 Position	DPDT	On	On	—	1	Z1401-ND	42.36	39.23	36.61	A165K-A2ML-2
	Square	3 Position	DPDT	On	On	On	1, 2, 3	Z1403-ND	42.36	39.23	36.61	A165K-A3M-2
2	Round	2 Position	DPDT	On	Mom	—	1	Z1415-ND	42.36	39.23	36.61	A165K-T2AL-2
	Round	2 Position	DPDT	On	On	—	1 and 2	Z1416-ND	42.36	39.23	36.61	A165K-T2M-2
	Round	2 Position	DPDT	On	On	—	1	Z1417-ND	51.41	47.61	44.43	A165K-T2ML-2
	Round	3 Position	DPDT	On	On	On	1, 2, 3	Z1420-ND	42.36	39.23	36.61	A165K-T3M-2
	Round	3 Position	DPDT	On	On	On	1	Z1422-ND	42.36	39.23	36.61	A165K-T3ML-2
Replacement Key for A165K Series (2 pcs.)								Z1424-ND	5.37	4.98	4.65	A165K-KEY

(Continued)

A16 Series 16mm Switches *(Cont.)*

Knob Type 16mm Selector Switches

Specifications: Rating Contacts: • 250VAC: 3A (resistive) • 125VAC: 5A (resistive) • 30VDC: 3A (resistive) **LED Indicators:** • Rated Voltage: 24VDC • Rated Current: 10mA • Operating Voltage: 24VDC+5% **Dielectric Strength:** 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** 100,000 operations minimum **Operating Temperature:** -10°C ~ 55°C **Ambient Humidity:** Operating 35% to 80% **Degree of Protection:** IP65

Fig. 1

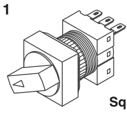

Square

Fig. 2

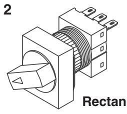

Rectangular

Fig. 3

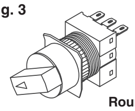

Round

Fig.	Switch Type	Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
					Non-Illuminated							
1	Square	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1363-ND	20.46	18.95	17.68	16.42	A165S-A2M-1
	Square	2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1364-ND	21.89	20.27	18.92	17.57	A165S-A2A-1
	Square	3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1365-ND	23.91	22.15	20.67	19.20	A165S-A3M-2
2	Rectangular	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1375-ND	21.89	20.27	18.92	17.57	A165S-J2M-1
	Rectangular	2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1376-ND	21.89	20.27	18.92	17.57	A165S-J2A-1
	Rectangular	3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1377-ND	23.91	22.15	20.67	19.20	A165S-J3M-2
3	Round	3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1389-ND	23.91	22.15	20.67	19.20	A165S-T3M-2
					Illuminated							
1	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1366-ND	27.63	25.59	23.89	22.18	A165W-A2AG-24D-1
	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Red	Z1367-ND	27.63	25.59	23.89	22.18	A165W-A2AR-24D-1
	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Yellow	Z1368-ND	27.63	25.59	23.89	22.18	A165W-A2AY-24D-1
	Square	2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1369-ND	27.63	25.59	23.89	22.18	A165W-A2MG-24D-1
	Square	2 Position	Maintained (On-Off)	SPDT	24VDC	Red	Z1370-ND	27.63	25.59	23.89	22.18	A165W-A2MR-24D-1
	Square	2 Position	Maintained (On-Off)	SPDT	24VDC	Yellow	Z1371-ND	27.89	25.83	24.11	22.39	A165W-A2MY-24D-1
	Square	3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1372-ND	29.75	27.55	25.72	23.88	A165W-A3MG-24D-2
	Square	3 Position	Maintained (On-Off)	DPDT	24VDC	Red	Z1373-ND	29.75	27.55	25.72	23.88	A165W-A3MR-24D-2
	Square	3 Position	Maintained (On-Off)	DPDT	24VDC	Yellow	Z1374-ND	29.75	27.55	25.72	23.88	A165W-A3MY-24D-2
3	Round	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1390-ND	27.63	25.59	23.89	22.18	A165W-T2AG-24D-1
	Round	2 Position	Spring Return (Momentary)	SPDT	24VDC	Red	Z1391-ND	27.63	25.59	23.89	22.18	A165W-T2AR-24D-1
	Round	2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1393-ND	27.63	25.59	23.89	22.18	A165W-T2MG-24D-1
	Round	2 Position	Maintained (On-Off)	SPDT	24VDC	Red	Z1394-ND	27.63	25.59	23.89	22.18	A165W-T2MR-24D-1
	Round	2 Position	Maintained (On-Off)	SPDT	24VDC	Yellow	Z1395-ND	30.08	27.86	26.00	24.14	A165W-T2MY-24D-1
	Round	3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1396-ND	29.75	27.55	25.72	23.88	A165W-T3MG-24D-2
	Round	3 Position	Maintained (On-Off)	DPDT	24VDC	Red	Z1397-ND	29.75	27.55	25.72	23.88	A165W-T3MR-24D-2
	Round	3 Position	Maintained (On-Off)	DPDT	24VDC	Yellow	Z1398-ND	29.75	27.55	—	—	A165W-T3MY-24D-2

A22 Series Switches

Omron's A22 Series of pushbutton switches offer flexible features not found in other competitors switches. Switch blocks are hand snapped into the back of the switch body enabling the end user to replace, add or modify the switching outputs in seconds. If you need a DP switch simply snap on another switch block to complete your needs. Switch blocks feature screw-recessed (finger safe) terminals to meet both North American and European safety standards. Switches are water, oil and dust sealed to IP65 standards. Switch units come completely assembled and ready for installation. Purchase additional switch blocks for replacement and additions.

Rating Contacts: • 24VAC: 10A (inductive), 10A (resistive) • 110VAC: 5A (inductive), 10A (resistive) • 220VAC: 3A (inductive), 6A (resistive) **LED Indicators:** • Rated Voltage: 24 VAC/DC • Rated Current: 15mA • Operating Voltage: 24VAC/DC +5% **Dielectric Strength:** 2,500VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** • PB Illum/Non-Illum: 500,000 operations minimum • Emergency Stop: 300,000 operations minimum • Selector: 500,000 operations minimum **Ambient Humidity:** Operating 35% ~ 80% **Degree of Protection:** IP65

22mm Pilot Light

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Square

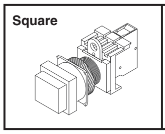

Round

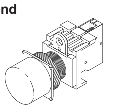

Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Square/Extended	24VAC/DC	Blue	Z1537-ND	42.03	38.92	36.33	M22-CA-24A
Square/Extended	24VAC/DC	Green	Z1538-ND	26.03	24.10	22.50	M22-CG-24A
Square/Extended	24VAC/DC	Red	Z1539-ND	26.03	24.10	22.50	M22-CR-24A
Square/Extended	24VAC/DC	White	Z1540-ND	26.03	24.10	22.50	M22-CW-24A
Square/Extended	110VAC	Blue	Z1542-ND	46.33	42.90	40.04	M22-CA-T1
Square/Extended	110VAC	Green	Z1543-ND	43.09	39.90	37.24	M22-CG-T1
Square/Extended	110VAC	Red	Z1544-ND	43.09	39.90	37.24	M22-CR-T1
Square/Extended	110VAC	White	Z1545-ND	43.09	39.90	37.24	M22-CW-T1
Square/Extended	110VAC	Yellow	Z1546-ND	43.09	39.90	37.24	M22-CY-T1
Round/Flush	12VAC/DC	Yellow	Z1597-ND	18.94	17.54	16.37	M22-FY-12A
Round/Flush	24VAC/DC	Blue	Z1594-ND	37.00	34.26	31.98	M22-FA-24A
Round/Flush	24VAC/DC	Green	Z1589-ND	18.94	17.54	16.37	M22-FG-24A
Round/Flush	24VAC/DC	Red	Z1590-ND	18.94	17.54	16.37	M22-FR-24A
Round/Flush	24VAC/DC	White	Z1596-ND	18.94	17.54	16.37	M22-FW-24A
Round/Flush	110VAC	Blue	Z1588-ND	41.30	38.24	35.69	M22-FA-T1
Round/Flush	110VAC	Green	Z1595-ND	23.24	21.52	20.08	M22-FG-T1
Round/Flush	110VAC	Red	Z1591-ND	23.24	21.52	20.08	M22-FR-T1
Round/Flush	110VAC	White	Z1592-ND	23.24	21.52	20.08	M22-FW-T1

22mm Accessories

Fig. 1

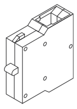

Fig. 2

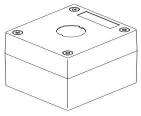

Fig. 3

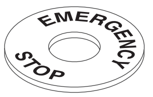

Fig. 4

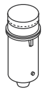

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Replacement Switch Block, SPST-NC, G.P., 10 Amp	Z1547-ND	7.21	6.68	6.23	A22-01
	Replacement Switch Block, SPST-NC, Microload	Z1548-ND	17.43	16.14	15.07	A22-01S
	Replacement Switch Block, DPST-NC, G.P., 10 Amp	Z1549-ND	27.96	25.89	24.17	A22-02
	Replacement Switch Block, SPST-NO, G.P., 10 Amp	Z1551-ND	7.21	6.68	6.23	A22-10
	Replacement Switch Block, SPST-NO, Microload	Z1552-ND	17.43	16.14	15.07	A22-10S
	Replacement Switch Block, DPST-NO, G.P., 10 Amp	Z1553-ND	18.62	17.25	16.10	A22-20
2	Control Box Enclosure; 1 Hole for 22mm Switches	Z1647-ND	23.91	22.15	20.67	A22Z-B101
	Emergency Yellow Enclosure; 1 Hole for 22mm Switches	Z1648-ND	24.38	22.57	21.07	A22Z-B101Y
	Control Box Enclosure; 2 Holes for 22mm Switches	Z1649-ND	37.81	35.02	32.68	A22Z-B102
	Control Box Enclosure; 3 Holes for 22mm Switches	Z1650-ND	62.82	58.17	54.29	A22Z-B103
3	Emergency Stop Plate, 60mm dia., Yellow w/Black Letters	Z1555-ND	9.14	8.47	7.91	A22Z-3466-1
	Emergency Stop Plate, 90mm dia., Yellow w/Black Letters	Z1556-ND	6.53	6.05	5.65	A22Z-3476-1
4	Replacement LED Lamp, Red 24VAC/DC	Z1576-ND	17.68	16.37	15.28	A22-24AR
	Replacement LED Lamp, Green 24VAC/DC	Z1577-ND	17.68	16.37	15.28	A22-24AG
	Replacement LED Lamp, Yellow 24VAC/DC	Z1578-ND	17.68	16.37	15.28	A22-24AY
	Replacement LED Lamp, Blue 24VAC/DC	Z1579-ND	27.68	25.63	23.92	A22-24AA
—	Replacement Incandescent Lamp, 120VAC	Z1580-ND	5.05	4.68	4.37	A22-H1
	Replacement Latch Assembly for Switch Blocks	Z1583-ND	3.72	3.45	3.22	A22-3200
—	Fitting Wrench for Tightening Lock Nuts	Z1557-ND	17.19	15.92	14.86	A22Z-3905
	Extractor for Lamp and Switch Removal	Z1558-ND	5.36	4.97	4.64	A22Z-3901

Key Type Selector Switches

Key Selector switches for secured switching or resetting. Available in either momentary or Alternate Action. (IP65 oil and dust tight construction.) Comes complete with 2 keys. **Contact**: 10A@110VAC or 24VDC

Switch Type	No. of Positions	Contacts	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Key Type Selector Switch	2	SPST-NO	On	Mom	—	1	Z1530-ND	28.51	26.41	24.65	22.89	A22K-2AL-10
		SPST-NO	On	Off	—	1 and 2	Z1531-ND	28.51	26.41	24.65	22.89	A22K-2M-10
		SPST-NO	On	Off	—	1	Z1532-ND	28.51	26.41	24.65	22.89	A22K-2ML-10
	3	SPST-NO + SPST-NC	Mom	Off	Mom	2	Z1533-ND	35.76	33.12	30.91	28.71	A22K-3AC-11
		SPST-NO + SPST-NC	On	On	Off	1 and 3	Z1534-ND	37.50	34.73	32.42	30.10	A22K-3M-11
Replacement Key for Key Type Selector Switches							Z1669-ND	5.16	4.78	4.46	4.14	A22KK

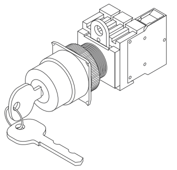

(Continued)

Pushbutton Switches 22mm

Fig. 1

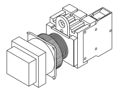

Fig. 2

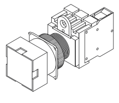

Fig. 3

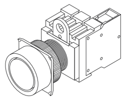

Fig. 4

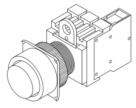

Fig. 5

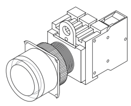

Fig. 6

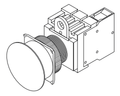

Fig. 7

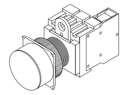

Fig.	Button Type	Contact Blocks Include	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Illuminated Switches (Momentary Operations)										
2	Square/Full Guard Button (Momentary)	SPST-NO	—	White	Z1443-ND	20.52	19.01	17.74	16.47	A22-DW-10M
		SPST-NO	—	Yellow	Z1444-ND	20.52	19.01	17.74	16.47	A22-DY-10M
3	Round Flush Button (Momentary)	SPST-NO	—	Blue	Z1446-ND	14.95	13.84	12.92	12.00	A22-FA-10M
		SPST-NO	—	Black	Z1447-ND	14.95	13.84	12.92	12.00	A22-FB-10M
		SPST-NO	—	Green	Z1448-ND	14.95	13.84	12.92	12.00	A22-FG-10M
		SPST-NO	—	Red	Z1449-ND	14.95	13.84	12.92	12.00	A22-FR-10M
		SPST-NO	—	White	Z1450-ND	14.95	13.84	12.92	12.00	A22-FW-10M
		SPST-NO	—	Yellow	Z1451-ND	14.95	13.84	12.92	12.00	A22-FY-10M
4	Round/Extended Button (Momentary)	SPST-NC	—	Red	Z1452-ND	19.83	18.37	17.15	15.92	A22-TR-01M
		SPST-NO + SPST-NC	—	Red	Z1453-ND	19.83	18.37	17.15	15.92	A22-TR-11M
5	Round Full Guard Button (Momentary)	SPST-NO	—	Blue	Z1454-ND	19.00	17.60	16.43	15.25	A22-GA-10M
		SPST-NO	—	Black	Z1455-ND	19.00	17.60	16.43	15.25	A22-GB-10M
		SPST-NO	—	Green	Z1456-ND	19.00	17.60	16.43	15.25	A22-GG-10M
		SPST-NO	—	Red	Z1457-ND	19.00	17.60	16.43	15.25	A22-GR-10M
		SPST-NO	—	White	Z1458-ND	19.00	17.60	16.43	15.25	A22-GW-10M
		SPST-NO	—	Yellow	Z1459-ND	19.00	17.60	16.43	15.25	A22-GY-10M
6	Medium-size Mushroom 40 mm dia. head (Momentary)	SPST-NC	—	Red	Z1460-ND	18.43	17.07	15.93	14.79	A22-MR-01M
		SPST-NO	—	Black	Z1462-ND	18.43	17.07	15.93	14.79	A22-MB-10M
		SPST-NO	—	Green	Z1463-ND	18.43	17.07	15.93	14.79	A22-MG-10M
		SPST-NO	—	Yellow	Z1465-ND	18.43	17.07	15.93	14.79	A22-MY-10M
7	Small-size Mushroom 30 mm dia. head (Momentary)	SPST-NO	—	Blue	Z1467-ND	17.61	16.31	15.22	14.14	A22-SA-10M
		SPST-NO	—	White	Z1470-ND	17.61	16.31	15.22	14.14	A22-SW-10M
Non-Illuminated Switches (Latching Operations)										
1	Square/Extended Button (Latching On-Off)	SPST-NC	—	Red	Z1572-ND	28.56	26.45	24.68	22.92	A22-CR-01A
		SPST-NO + SPST-NC	—	Black	Z1573-ND	37.28	34.52	32.22	29.92	A22-CB-11A
Illuminated Switches (Momentary Operations)										
2	Square/Full Guard Button LED Illuminated (Momentary)	SPST-NO	110 VAC	Blue	Z1474-ND	58.52	54.19	50.58	46.96	A22L-DA-24A-10M
		SPST-NO	110 VAC	White	Z1476-ND	40.46	37.47	34.97	32.47	A22L-DW-24A-10M
		SPST-NO	110 VAC	Blue	Z1478-ND	63.64	58.93	55.00	51.07	A22L-DA-T1-10M
3	Round/Clear Full Guard Button LED Illuminated (Momentary)	SPST-NC	24 VAC/DC	Red	Z1482-ND	33.72	31.23	29.15	27.07	A22L-GR-24A-01M
		SPST-NO	24 VAC/DC	Green	Z1484-ND	33.72	31.23	29.15	27.07	A22L-GG-24A-10M
		SPST-NO	24 VAC/DC	White	Z1485-ND	33.72	31.23	29.15	27.07	A22L-GW-24A-10M
		SPST-NO	24 VAC/DC	Yellow	Z1486-ND	33.72	31.23	29.15	27.07	A22L-GY-24A-10M
		SPST-NC	110 VAC	Red	Z1487-ND	38.84	35.97	33.57	31.17	A22L-GR-T1-01M
		SPST-NO	110 VAC	Green	Z1489-ND	38.84	35.97	33.57	31.17	A22L-GG-T1-10M
4	Round/Extended Button LED Illuminated (Momentary)	SPST-NC	24 VAC/DC	Red	Z1492-ND	29.79	27.58	25.75	23.91	A22L-TR-24A-01M
		SPST-NO	24 VAC/DC	Green	Z1494-ND	29.79	27.58	25.75	23.91	A22L-TG-24A-10M
		SPST-NO	24 VAC/DC	White	Z1495-ND	29.79	27.58	25.75	23.91	A22L-TW-24A-10M
		SPST-NO	24 VAC/DC	Yellow	Z1496-ND	29.79	27.58	25.75	23.91	A22L-TY-24A-10M
		SPST-NO	110 VAC	Green	Z1499-ND	34.90	32.32	30.17	28.01	A22L-TG-T1-10M
		SPST-NO	110 VAC	Yellow	Z1501-ND	34.90	32.32	30.17	28.01	A22L-TY-T1-10M

Emergency Stop Pushbutton Switches

Fig. 1

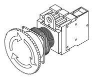

Fig. 2

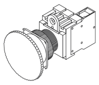

Fig. 3

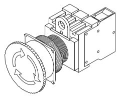

Fig. 4

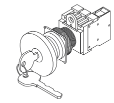

Fig. 5

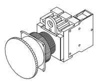

Fig. 6

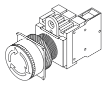

Fig. 7

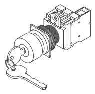

Fig. 8

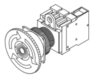

Omron Emergency stop switches feature a positive opening mechanism with minimal contact separation of 3mm in accordance with EN60947-5-1. Safety lock mechanism prevents misuse or tampering. Innovative two-piece snap together construction reduces installation time and shorter panel depth requirements. Use for Emergency stop switching on equipment, conveyors and augers, construction equipment and vehicles. Red cap standard. **Contacts**: 10A@110VAC or 24VDC

Fig.	Switch Type	Contact	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Lighted Models								
1	60-dia. Head, Push-lock, Turn-reset	SPST-NC	Z1502-ND	37.46	34.69	32.38	30.07	A22E-L-01
2	60-dia. Head, Push-pull	SPST-NC	Z1503-ND	44.60	41.30	38.55	35.79	A22E-LP-01
3	40-dia. Head, Push-lock, Turn-reset	SPST-NC	Z1504-ND	34.19	31.67	29.55	27.44	A22E-M-01
4	40-dia. Head, Push-lock, Key-reset	SPST-NC	Z1505-ND	63.04	58.38	54.49	50.60	A22E-MK-01
		SPST-NO/SPST-NC	Z1560-ND	53.23	49.29	46.00	42.72	A22E-MK-11
5	40-dia. Head, Push-pull	SPST-NC	Z1506-ND	42.22	39.10	36.49	33.88	A22E-MP-01
		SPST-NO/SPST-NC	Z1507-ND	52.04	48.19	44.97	41.76	A22E-MP-11
6	30-dia. Head, Push-lock, Turn-reset	SPST-NC	Z1508-ND	42.22	39.10	36.49	33.88	A22E-S-01
7	30-dia. Head, Push-lock, Key-reset	SPST-NC	Z1509-ND	53.23	49.29	46.00	42.72	A22E-SK-01

Fig.	Switch Type	Contact	Illumination Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Lighted Models									
8	40-dia. Head, Push-lock Turn-reset	SPST-NC	24 VAC/DC (LED)	Z1510-ND	55.60	51.49	48.06	44.63	A22EL-M- 24A-01
	40-dia. Head, Push-lock Turn-reset withTrans.	SPST-NC	110 VAC (LED)	Z1511-ND	64.82	60.02	56.02	52.02	A22EL-M-T1-01

Knob Type Selector Switches

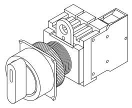

Large easy to switch knob selector switches for On-Off and selection for control of industrial controls. Snap acting type switch feedback ensures confident operator feedback during switching, even while wearing gloves. Available in either non-illuminated or LED illuminated versions. (IP65 oil and dust tight construction.)

Contacts: 10A@110VAC or 24VDC

Switch Type	No. of Positions	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Illuminated											
Knob-type Selector Switch	2	Spring Return (Off-Mom)	SPST-NO	—	Black	Z1512-ND	17.43	16.14	15.07	13.99	A22S-2A-10
	2	Maintained (On-Off)	SPST-NO	—	Black	Z1513-ND	17.72	16.41	15.32	14.22	A22S-2M-10
	3	Spring Return (Mom-Off-Mom)	SPST-NO + SPST-NC	—	Black	Z1574-ND	22.62	20.95	19.55	18.16	A22-3A-11
	3	Maintained(On-Off-On)	SPST-NO + SPST-NC	—	Black	Z1575-ND	22.62	20.95	19.55	18.16	A22-3M-11
	3	Maintained (On-Off-On)	DPST-NO	—	Black	Z2505-ND◆	22.62	20.95	19.55	18.16	A22S-3M-20
Illuminated											
Knob-type Selector Switch	2	Spring Return (Momentary)	SPST-NO	24 VAC/DC	Blue	Z1514-ND	53.99	49.99	46.66	43.33	A22W-2AA-24A-10
	2	Spring Return (Momentary)	SPST-NO	24 VAC/DC	Yellow	Z1517-ND	35.92	33.27	31.05	28.83	A22W-2AY-24A-10
	2	Maintained (On-Off)	SPST-NO	24 VAC/DC	Green	Z1519-ND	35.92	33.27	31.05	28.83	A22W-2MG-24A-10
	2	Maintained (On-Off)	SPST-NO	24 VAC/DC	Red	Z1520-ND	35.92	33.27	31.05	28.83	A22W-2MR-24A-10
	2	Maintained (On-Off)	SPST-NO	24 VAC/DC	Yellow	Z1521-ND	35.92	33.27	31.05	28.83	A22W-2MY-24A-10

◆ ***RoHS Compliant***

NKK SWITCHES SMARTSWITCH™

NKK's OLED and LCD programmable switches and displays are suited for a wide variety of applications requiring a graphical user interface or real-time sequencing. The SmartSwitch product line simplifies and improves complex multi-decisional operations. Applications include audio-video broadcast workstations, industrial control panels, medical equipment and communications systems.

Fig. 1 – Development Kit

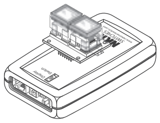

Fig. 2 – Demonstration Kit

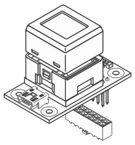

Fig. 3 – Switch

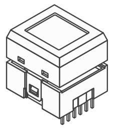

Fig. 4 – Display

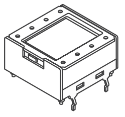

Fig. 5 – 64 x 32 Switch

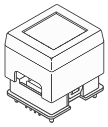

Fig. 6 – OLED Switch

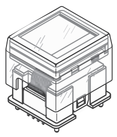

Fig. 7 – OLED Rocker

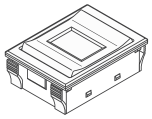

Fig. 8 – Socket

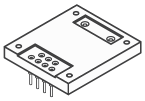

Development Kits

These Development Kits provide a full set of tools for designs using one or two switches. The kits enable rapid prototype designs so that feedback is easily obtained. Each of NKK's Development Kits have been designed to facilitate the creation, testing and display of images with software.

Fig.	Description	Digi-Key Part No.	Price Each	NKK Part No.
—	One LCD 36 x 24 IS01BCCF Display with supplied hardware	360-2325-ND	236.35	IS-DEV KIT-1
	Two LCD 36 x 24 IS15AACP4CF Pushbuttons with supplied hardware	360-2326-ND	236.35	IS-DEV KIT-2
1	Two LCD 36 x 24 IS15ABFP4RGB Pushbuttons with supplied hardware	360-2328-ND	252.65	IS-DEV KIT-5
	Two LCD 36 x 24 IS15SBFP4RGB Compact Pushbuttons with supplied hardware	360-2327-ND	252.65	IS-DEV KIT-5C
	Two LCD 36 x 24 IS01BFRGB Displays with supplied hardware	360-2335-ND	248.00	IS-DEV KIT-5D
	Two LDC 64 x 32 IS15DBFP4RGB Pushbuttons with supplied hardware	360-2336-ND	281.60	IS-DEV KIT-6
	Two LCD 64 x 32 IS15DSBFP4RGB Compact Pushbuttons with supplied hardware	360-2337-ND	281.60	IS-DEV KIT-6C
	Two LCD 64 x 32 IS01DBFRGB Displays with supplied hardware	360-2338-ND	281.60	IS-DEV KIT-6D
	Two OLED 64RGB x 48 ISC15ANP4 Pushbuttons with supplied hardware	360-2339-ND	334.80	IS-DEV KIT-7
	Two OLED 52RGB x 36 ISC01P Displays with supplied hardware	360-2340-ND	334.80	IS-DEV KIT-7D

Demonstration Kits

Demonstration Kits may be used to display as many as 64 bitmaps created via the user's PC with a USB, or serial interface via software. Once downloaded, the bitmaps may be displayed and advanced by employing the address control lines without use of a PC. Demonstration Kits are available for single or bicolor switch designs for the SmartSwitch or SmartDisplay™. The kits are equipped with corresponding support hardware and operating manuals.

Fig.	Description	Digi-Key Part No.	Price Each	NKK Part No.
2	One LCD 36 x 24 IS15AACP4CF Pushbutton with supplied hardware	360-2322-ND	144.50	IS-DEM KIT-1
	One LCD 36 x 24 IS01BCCF Display with supplied hardware	360-2323-ND	163.35	IS-DEM KIT-2
—	Battery Box for Demonstration Kits	360-2324-ND	61.20	AT9946

LCD 36 x 24 Pushbuttons and Displays

Displaying industry-specific text and graphics with real-time sequencing, the SmartSwitch simplifies and improves complex, multi-decision operations. SmartSwitches can be programmed to display an infinite variety of text, graphics or moving images. Possible applications include industrial control panels, medical equipment, communication systems, audio-video broadcast workstations and simulation equipment. As one of the industry's smallest dot matrix LCD displays, NKK's Display is ideally suited for compact electronic devices that require the display of graphics, text or moving images in tight-fitting locations. The display offers more functionality than a 7-segment display. It is well suited for use in 1U rack mount units and in applications where 7-segment displays and LED matrices do not provide enough information.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
3	LCD 36 x 24 Compact Pushbutton, Yellow STN Positive, Super Bright Red/Green LED Backlighting	360-2329-ND	38.38	29.29	27.78	IS15SBCP4CF
	LCD 36 x 24 Pushbutton, Yellow STN Positive, Super Bright Red/Green LED Backlighting	360-2330-ND	38.38	29.29	27.78	IS15ABCP4CF
	LCD 36 x 24 Compact Pushbutton, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2331-ND	46.25	36.25	33.75	IS15SBFP4RGB
	LCD 36 x 24 Pushbutton, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2332-ND	46.25	36.25	33.75	IS15ABFP4RGB
4	LCD 36 x 24 Display, Yellow STN Positive, Super Bright Red/Green LED Backlighting	360-2333-ND	37.05	28.50	26.60	IS01BCCF
	LCD 36 x 24 Display, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2334-ND	44.75	34.15	32.36	IS01BFRGB

LCD 64 x 32 Pushbuttons and Displays

NKK's 64 x 32 LCD programmable switches and displays provides higher resolution with 64 backlit colors that displays graphics, alphanumeric characters or animated sequences, including four lines of text with as many as ten characters per line.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
3	LCD 64 x 32 Compact Pushbutton, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2345-ND	54.45	43.11	40.84	IS15DSBFP4RGB
4	LCD 64 x 32 Display, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2341-ND	51.34	40.24	37.47	IS01DBFRGB
5	LCD 64 x 32 Pushbutton, Black and White FSTN Positive, Red/Green/Blue LED Backlighting	360-2343-ND	54.45	43.11	40.84	IS15DBFP4RGB

OLED Pushbutton and Display

NKK's OLED switch and display allow for vivid, more brilliant images and video in 16 bit 65,536 colors. The OLED technology allows NKK to provide 180° viewing angles, lower power consumption, faster response time and no backlighting required.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
4	OLED 52RGB x 36 Display	360-2342-ND	63.36	50.16	46.64	ISC01P
6	OLED 64RGB x 48 Pushbutton Switch	360-2344-ND	63.36	50.16	46.64	ISC15ANP4

OLED Rocker

OLED Rocker switch with integrated pushbutton and monochrome OLED display. Rocker enables user to scroll up and down as pushbutton activates the selections.

Characteristics: • Replaces multiple switches and displays with one device in a small package • Broad display aids in navigation, both forward and reverse and up and down, in structured menus • Wide viewing angle of 180° and large 0.92" display with exceptional contrast • Conforms to IP64 of IEC60529 Standards on panel surface; dust tight construction of switch prevents entry of dust and improves contact reliability • Commands and data supplied via serial communications protocol (SPI) • Stylish black housing design with matte finish complements any application

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
7	OLED 96 x 64 Monochrome SP3T Rocker Switch	360-2367-ND◆	70.20	55.58	51.68	IS18WWC1W
—	Design Kit for OLED Rocker	360-2419-ND◆ ***NEW!***	106.65	—	—	IS18WWC1W-K
	Smartswitch Development Kit 8	360-2421-ND ***NEW!***	288.00	—	—	IS-DEV KIT-8
	Controller for OLED Rocker	360-2422-ND ***NEW!***	149.60	—	—	IS-CL04R

◆ ***RoHS Compliant***

NEW! Evaluation Kits and Controllers

Description	Digi-Key Part No.	Price Each	NKK Part No.
Smartswitch Controller OLED	360-2424-ND	158.40	IS-CL01-F-E
Smartswitch Controller LCD	360-2425-ND	136.00	IS-C0203-F-E
Control for LCD 36 x 24 PB/Display	360-2427-ND	241.24	IS-C1603

Accessories

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
8	Socket for LCD 36 x 24 Single/Bicolor Pushbutton	360-2437-ND◆ ***NEW!***	4.62	2.89	2.64	AT9704-02YC-RO
	Socket for LCD 36 x 24 RGB Pushbutton	360-2438-ND◆ ***NEW!***	5.82	3.88	3.48	AT9704-065E
	Socket for LCD 36 x 24 Compact Pushbutton	360-2439-ND◆ ***NEW!***	5.82	3.88	3.48	AT9704-065F
	Socket for LCD 64 x 32 Compact Pushbutton	360-2426-ND◆ ***NEW!***	6.30	—	—	AT9704-065FH
	Socket for LCD 64 x 32 Pushbutton	360-2348-ND◆	6.21	4.14	3.71	AT9704-085K
	Socket for OLED Pushbutton	360-2346-ND◆	6.58	4.55	4.03	AT9704-085L
	Socket for OLED Display	360-2347-ND◆	8.40	5.95	5.25	AT9704-085M
—	Cable for OLED Rocker 19.685"	360-2417-ND◆ ***NEW!***	17.96	13.26	12.19	AT715
	PC Board Connector for AT715	360-2418-ND◆ ***NEW!***	1.75	1.00	.87	AT097
	Logic Board for LCD 36 x 24	360-2428-ND ***NEW!***	39.52	—	—	IS-L0205-C
	Power Supply 120VAC for Development Kit	360-2429-ND ***NEW!***	16.80	—	—	IS-P410905
	Power Supply 240VAC for Development Kit	360-2430-ND◆ ***NEW!***	29.64	—	—	IS-418-TR1509-12
	Serial Cable RJ11-DB9 for Development Kit	360-2431-ND ***NEW!***	20.16	—	—	IS-SERIAL-CABLE
	Cable Ribbon 1.3"	360-2432-ND◆ ***NEW!***	7.00	—	—	ISDCB81.3
	Cable Ribbon 4"	360-2433-ND◆ ***NEW!***	7.50	—	—	ISDCB84
	Cable Ribbon 8"	360-2434-ND◆ ***NEW!***	8.04	—	—	ISDCB88
	Cable Ribbon 12"	360-2435-ND◆ ***NEW!***	8.88	—	—	ISDCB812
	Cable Ribbon 24"	360-2436-ND◆ ***NEW!***	10.70	—	—	ISDCB824

◆ ***RoHS Compliant***

Illuminated Pushbutton Switches

KB Series Miniature Bushing Mount

The KB pushbuttons are SPDT or DPDT snap acting contact mechanism, providing long electrical life and pronounced sensitivity. Comes complete with nut. 12mm diameter makes this switch ideal for stacking into a panel using minimal room. LED illumination for long service life. **Features:** • Electrical Capacity: 1A @125/250VAC or 30VDC for silver contacts • Dielectric Strength: 1,500VAC min. between contacts and case • Mechanical Life: 100,000 operations min. • Electrical Life: 50,000 operations min. (silver) • Total Travel: 0.118" • Operating Temperature: -25°C ~ 50°C • UL recognized and CSA certified @1A rating

Dimensions in (mm) Inch

Fig.	Circuit	Switching Function	LED Color	Lens/Diffuser Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
KB Series Square Bezel Switches									
1	SPDT	On-Mom	Red	Clear/Red	360-1990-ND◆	10.51	7.45	6.86	KB15SKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-1991-ND◆	10.51	7.45	6.86	KB15SKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-1992-ND◆	10.51	7.45	6.86	KB15SKW01-5F-JF-RO
	SPDT	On-On	Red	Clear/Red	360-1999-ND◆	11.27	7.99	7.35	KB16SKW01-5C-JC-RO
	SPDT	On-On	Amber	Clear/Amber	360-2000-ND◆	11.27	7.99	7.35	KB16SKW01-5D-JD-RO
	SPDT	On-On	Green	Clear/Green	360-2001-ND◆	11.27	7.99	7.35	KB16SKW01-5F-JF-RO
	DPDT	On-Mom	Red	Clear/Red	360-1613-ND	13.84	10.03	8.92	KB25SKW01-5C-JC
	DPDT	On-Mom	Red	Clear/Red	360-2008-ND◆	12.69	9.20	8.18	KB25SKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-1614-ND	11.88	8.61	7.66	KB25SKW01-5D-JD
	DPDT	On-Mom	Amber	Clear/Amber	360-2009-ND◆	12.69	9.20	8.18	KB25SKW01-5D-JD-RO
	DPDT	On-Mom	Green	Clear/Green	360-2010-ND◆	12.69	9.20	8.18	KB25SKW01-5F-JF-RO
	DPDT	On-On	Red	Clear/Red	360-2017-ND◆	13.37	9.69	8.62	KB26SKW01-5C-JC-RO
	DPDT	On-On	Amber	Clear/Amber	360-2018-ND◆	13.37	9.69	8.62	KB26SKW01-5D-JD-RO
	DPDT	On-On	Green	Clear/Green	360-2019-ND◆	13.37	9.69	8.62	KB26SKW01-5F-JF-RO
KB Series Round Bezel Switches									
2	SPDT	On-Mom	Red	Clear/Red	360-1984-ND◆	10.51	7.45	6.86	KB15CKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-1985-ND◆	10.51	7.45	6.86	KB15CKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-1986-ND◆	10.51	7.45	6.86	KB15CKW01-5F-JF-RO
	SPDT	On-On	Red	Clear/Red	360-1993-ND◆	11.27	7.99	7.35	KB16CKW01-5C-JC-RO
	SPDT	On-On	Amber	Clear/Amber	360-1994-ND◆	11.27	7.99	7.35	KB16CKW01-5D-JD-RO
	SPDT	On-On	Green	Clear/Green	360-1995-ND◆	11.27	7.99	7.35	KB16CKW01-5F-JF-RO
	DPDT	On-Mom	Red	Clear/Red	360-2002-ND◆	12.69	9.20	8.18	KB25CKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-1626-ND	11.88	8.61	7.66	KB25CKW01-5D-JD
	DPDT	On-Mom	Amber	Clear/Amber	360-2003-ND◆	12.69	9.20	8.18	KB25CKW01-5D-JD-RO
	DPDT	On-Mom	Green	Clear/Green	360-2004-ND◆	12.69	9.20	8.18	KB25CKW01-5F-JF-RO
	DPDT	On-On	Red	Clear/Red	360-2011-ND◆	13.37	9.69	8.62	KB26CKW01-5C-JC-RO
	DPDT	On-On	Amber	Clear/Amber	360-2012-ND◆	13.46	9.75	8.68	KB26CKW01-5D-JD-RO
	DPDT	On-On	Green	Clear/Green	360-2013-ND◆	13.37	9.69	8.62	KB26CKW01-5F-JF-RO
KB Series Rectangular Bezel Switches									
3	SPDT	On-Mom	Red	Clear/Red	360-1987-ND◆	10.51	7.45	6.86	KB15RKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-1988-ND◆	10.51	7.45	6.86	KB15RKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-1989-ND◆	10.51	7.45	6.86	KB15RKW01-5F-JF-RO
	SPDT	On-On	Red	Clear/Red	360-1996-ND◆	11.27	7.99	7.35	KB16RKW01-5C-JC-RO
	SPDT	On-On	Amber	Clear/Amber	360-1997-ND◆	11.27	7.99	7.35	KB16RKW01-5D-JD-RO
	SPDT	On-On	Green	Clear/ Green	360-1998-ND◆	11.27	7.99	7.35	KB16RKW01-5F-JF-RO
	DPDT	On-Mom	Red	Clear/Red	360-2005-ND◆	12.69	9.20	8.18	KB25RKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-1638-ND	13.84	10.03	8.92	KB25RKW01-5D-JD
	DPDT	On-Mom	Amber	Clear/Amber	360-2006-ND◆	12.69	9.20	8.18	KB25RKW01-5D-JD-RO
	DPDT	On-Mom	Green	Clear/Green	360-2007-ND◆	12.69	9.20	8.18	KB25RKW01-5F-JF-RO
	DPDT	On-On	Red	Clear/Red	360-2014-ND◆	13.37	9.69	8.62	KB26RKW01-5C-JC-RO
	DPDT	On-On	Amber	Clear/Amber	360-2015-ND◆	13.37	9.69	8.62	KB26RKW01-5D-JD-RO
	DPDT	On-On	Green	Clear/Green	360-2016-ND◆	13.37	9.69	8.62	KB26RKW01-5F-JF-RO
KB Accessories — RoHS Compliant									
4	Protective Guard for Square/Round KB Series				360-1004-ND	2.34	1.41	1.23	AT494
	Protective Guard for Rectangular KB Series				360-1006-ND	2.50	1.51	1.31	AT4024
—	Socket Wrench for Panel Mount KB Series				360-1000-ND	2.67	1.64	1.47	AT108

◆ ***RoHS Compliant***

Fig. 1

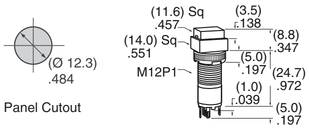

Fig. 2

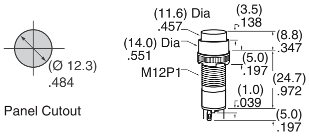

Fig. 3

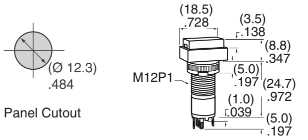

Fig. 4

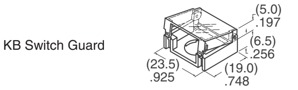

LB Series Standard Size Snap-in Mount

The pushbutton switch is designed with a single-break, snap-action contact mechanism. The combined butterfly formation and spring action of the movable contact create the quick-make, quick-break characteristic which limits arcing and prolongs electrical life. The switch is offered with momentary or alternate action circuits in single or double pole configurations.

Features: • Electrical Capacity: 3A @125/250VAC or 30VDC for silver contacts • Dielectric Strength: 1,500VAC min. between contacts and case • Mechanical Life: 1,000,000 operations min. for momentary; 200,000 operations min. for maintained • Electrical Life: 100,000 operations min. • Total Travel: 0.118" • Operating Temperature: -25°C ~ 50°C • UL recognized and CSA certified @3A rating

Dimensions in (mm) Inch

Fig.	Circuit	Switching Function	LED Color	Lens/Diffuser Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
LB Series Square Bezel Switches									
1	SPDT	On-Mom	Red	Clear/Red	360-2026-ND◆	13.68	9.96	9.02	LB15SKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-2027-ND◆	13.68	9.96	9.02	LB15SKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-2028-ND◆	13.68	9.96	9.02	LB15SKW01-5F-JF-RO
	SPDT	On-On	Red	Clear/Red	360-2035-ND◆	15.18	11.04	10.01	LB16SKW01-5C-JC-RO
	SPDT	On-On	Amber	Clear/Amber	360-2036-ND◆	15.18	11.04	10.01	LB16SKW01-5D-JD-RO
	SPDT	On-On	Green	Clear/Green	360-2037-ND◆	15.18	11.04	10.01	LB16SKW01-5F-JF-RO
	DPDT	On-Mom	Red	Clear/Red	360-2044-ND◆	16.21	11.80	10.69	LB25SKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-1650-ND	15.62	11.36	10.30	LB25SKW01-5D-JD
	DPDT	On-Mom	Amber	Clear/Amber	360-2045-ND◆	16.21	11.80	10.69	LB25SKW01-5D-JD-RO
	DPDT	On-On	Red	Clear/Red	360-2053-ND◆	16.93	12.50	11.49	LB26SKW01-5C-JC-RO
	DPDT	On-On	Amber	Clear/Amber	360-2054-ND◆	16.93	12.50	11.49	LB26SKW01-5D-JD-RO
	DPDT	On-On	Green	Clear/Green	360-2055-ND◆	16.93	12.50	11.49	LB26SKW01-5F-JF-RO
LB Series Round Bezel Switches									
2	SPDT	On-Mom	Red	Clear/Red	360-2020-ND◆	13.68	9.96	9.02	LB15CKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-2021-ND◆	13.68	9.96	9.02	LB15CKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-2022-ND◆	13.68	9.96	9.02	LB15CKW01-5F-JF-RO
	SPDT	On-On	Red	Clear/Red	360-1658-ND	14.65	10.66	9.66	LB16CKW01-5C-JC
	SPDT	On-On	Red	Clear/Red	360-2029-ND◆	15.18	11.04	10.01	LB16CKW01-5C-JC-RO
	SPDT	On-On	Amber	Clear/Amber	360-1659-ND	16.57	12.05	10.92	LB16CKW01-5D-JD
LB Series Round Bezel Switches — RoHS Compliant									
2	DPDT	On-On	Green	Clear/Green	360-2031-ND	15.18	11.04	10.01	LB16CKW01-5F-JF-RO
	DPDT	On-Mom	Red	Clear/Red	360-2038-ND	16.21	11.80	10.69	LB25CKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-2039-ND	16.21	11.80	10.69	LB25CKW01-5D-JD-RO
	DPDT	On-Mom	Green	Clear/Green	360-2040-ND	16.21	11.80	10.69	LB25CKW01-5F-JF-RO
	DPDT	On-On	Red	Clear/Red	360-2047-ND	16.93	12.50	11.49	LB26CKW01-5C-JC-RO
	DPDT	On-On	Amber	Clear/Amber	360-2048-ND	16.93	12.50	11.49	LB26CKW01-5D-JD-RO
	DPDT	On-On	Green	Clear/Green	360-2049-ND	16.93	12.50	11.49	LB26CKW01-5F-JF-RO
LB Series Rectangular Bezel Switches									
3	SPDT	On-Mom	Red	Clear/Red	360-2023-ND◆	13.68	9.96	9.02	LB15RKW01-5C-JC-RO
	SPDT	On-Mom	Amber	Clear/Amber	360-2024-ND◆	13.68	9.96	9.02	LB15RKW01-5D-JD-RO
	SPDT	On-Mom	Green	Clear/Green	360-2025-ND◆	13.68	9.96	9.02	LB15RKW01-5F-JF-RO
	SPDT	On-On	Amber	Clear/Amber	360-2033-ND◆	15.18	11.04	10.01	LB16RKW01-5D-JD-RO
	SPDT	On-On	Green	Clear/Green	360-2034-ND◆	15.18	11.04	10.01	LB16RKW01-5F-JF-RO

◆ ***RoHS Compliant***

Fig. 1

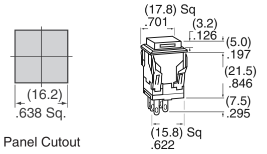

Fig. 2

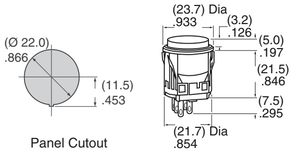

Fig. 3

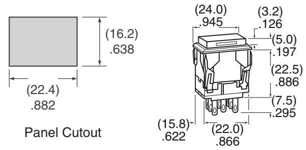

(Continued)

Illuminated Pushbutton Switches

LB Series Standard Size Snap-in Mount *(Cont.)*

Fig.	Circuit	Switching Function	LED Color	Lens/Diffuser Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
3	DPDT	On-Mom	Red	Clear/Red	360-2041-ND◆	16.21	11.80	10.69	LB25RKW01-5C-JC-RO
	DPDT	On-Mom	Amber	Clear/Amber	360-1674-ND	15.62	11.36	10.30	LB25RKW01-5D-JD
	DPDT	On-Mom	Green	Clear/Green	360-1675-ND	15.62	11.36	10.30	LB25RKW01-5F-JF
	DPDT	On-Mom	Green	Clear/Green	360-2043-ND◆	16.21	11.80	10.69	LB25RKW01-5F-JF-RO
	DPDT	On-On	Red	Clear/Red	360-2050-ND◆	16.93	12.50	11.49	LB26RKW01-5C-JC-RO
	DPDT	On-On	Green	Clear/Green	360-2052-ND◆	16.93	12.50	11.49	LB26RKW01-5F-JF-RO
LB Accessories — RoHS Compliant									
4	Protective Guard for Square LB Series				360-1005-ND	2.98	1.83	1.59	AT499
	Protective Guard for Rectangular LB Series				360-1007-ND	2.98	1.83	1.59	AT4057

◆ ***RoHS Compliant***

Dimensions in (mm) Inch

Fig. 4

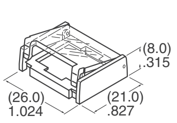

22mm Panel Seal Pushbuttons YB2 Series

• 22mm pushbutton with the shortest above-panel dimension (1.8mm) in the industry for splash proof design • Meets IP65 of IEC60529 standards (similar to NEMA 4 and 13), providing dust tight and splash proof panel seal protection • Tamper resistant 19mm diameter actuator • Short body of .965" (24.5mm) conserves behind-panel space • Distinctive long stroke and light touch actuation for clear indication of circuit status • Metallic silver cap option has bright ring illumination • Brilliant illumination with multiple LED colors **Specifications**: • Power Level: Silver: 3A @ 125VAC or 3A @ 250VAC or 3A @ 30VDC • Contact Resistance: 50mΩ maximum • Insulation Resistance: 200MΩ minimum at 500VDC • Mechanical Life: 1,000,000 operations momentary, 200,000 operations maintained • Electrical Life: 100,000 operations minimum • Nominal Operating Force: Single pole: 1.5N, Double pole: 3.0N • Operating Temperature Range: -25°C ~ 50°C

Circuit	Switching Function	LED Color	Lens/Diffuser Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
SPDT	On-Mom	Red	Red/White	360-2402-ND	25.90	19.43	18.13	YB215CWCKW01/CUL-5C-CB
	On-Mom	Amber	Yellow/White	360-2403-ND	25.90	19.43	18.13	YB215CWCKW01/CUL-5D-EB
	On-On	Red	Red/White	360-2404-ND	27.44	20.58	19.21	YB216CWCKW01/CUL-5C-CB
	On-On	Amber	Yellow/White	360-2405-ND	27.44	20.58	19.21	YB216CWCKW01/CUL-5D-EB
DPDT	On-Mom	Red	Red/White	360-2406-ND	28.00	21.00	19.60	YB225CWCKW01/CUL-5C-CB
	On-Mom	Amber	Yellow/White	360-2407-ND	28.00	21.00	19.60	YB225CWCKW01/CUL-5D-EB
	On-On	Red	Red/White	360-2408-ND	29.54	22.16	20.68	YB226CWCKW01/CUL-5C-CB
	On-On	Amber	Yellow/White	360-2409-ND	29.54	22.16	20.68	YB226CWCKW01/CUL-5D-EB

Dimensions in Inch (mm)

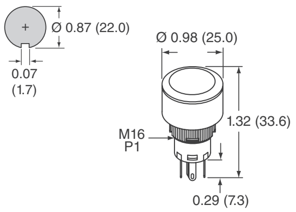

Slide Switches

AS Series: • 1/3 size of Series M switches. Specifically developed for logic-level applications. Antistatic superstructure of carbon blended polyacetal prevents static discharge to the contacts. **Specifications:** 0.4VA maximum at 28V AC/DC maximum • Contact Resistance: 50 mΩ maximum • Insulation Resistance: 500 MΩ minimum at 500V DC • Mechanical Life: 50,000 operations minimum • Electrical Life: 50,000 operations minimum • Operating Force: 2.55N • Contact Timing: Nonshorting (break-before-make) • Operating Temperature Range: -30°C ~ 85°C

CS Series: • High performance and high quality at a low price. Epoxy sealed terminals to lock out flux dust, and other contaminants. Suited for a wide variety of applications including telecommunications, electronic controls, audio devices and household appliances. **Specifications:** • Contact Resistance: 100 mΩ maximum • Insulation Resistance: 1,000 MΩ minimum at 500 V DC • Mechanical Life: 50,000 operations minimum • Electrical Life: 20,000 operations minimum • Contact Timing: Nonshorting (break-before-make) • Operating Temperature Range: -30°C ~ 85°C

SS Series: • Compact dimensions and low profile allow high density mounting and close stacking of PC boards. Crisp actuation positively indicates circuit status. **Specifications:** • Contact Resistance: 20 mΩ maximum for power level, 40 mΩ maximum for logic level • Insulation Resistance: 10 MΩ minimum at 500V DC • Mechanical Life: 10,000 operations minimum • Electrical Life: 10,000 operations minimum • Contact Timing: Shorting (make-before-break) • Operating Temp Range: -15°C ~ 60°C

MS Series: • Over-center actuator block and plunger design gives crisp actuation with clear indication of circuit status; this design also diminishes sparking and increases operating life. Antijamming design protects contacts from damage due to excessive downward force on the actuator. **Specifications:** • Power Level: Silver: 6A @ 125VAC or 3A @ 250VAC, Gold: 0.4VA maximum @ 28VAC/DC maximum • Contact Resistance: 10mΩ maximum for silver, 20mΩ maximum for gold • Insulation Resistance: 1,000MΩ minimum @ 500VDC • Mechanical Life: 100,000 operations • Electrical Life: 25,000 operations minimum for silver; 50,000 operations minimum for gold • Contact Timing: Nonshorting (break-before-make) • Operating Temperature Range: -30°C ~ 85°C

Fig.	Circuit	Switching Function	Rating	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Sub-Miniature Slides								
1	SPDT	On-On	0.4V @ 28VAC/DC	360-2121-ND	4.18	2.60	2.35	AS12AP
	SPDT	On-Off-On	0.4V @ 28VAC/DC	360-2124-ND	4.31	2.78	2.47	AS13AP
	DPDT	On-On	0.4V @ 28VAC/DC	360-2127-ND	5.18	3.36	3.08	AS22AP
	DPDT	On-Off-On	0.4V @ 28VAC/DC	360-2129-ND	5.36	3.57	3.20	AS23AP
2	SPDT	On-On	0.4V @ 28VAC/DC	360-2122-ND	4.76	2.98	2.72	AS12AH-RO
	SPDT	On-Off-On	0.4V @ 28VAC/DC	360-2125-ND	4.95	3.15	2.88	AS13AH-RO
	DPDT	On-On	0.4V @ 28VAC/DC	360-2128-ND	5.98	3.98	3.57	AS22AH-RO
	DPDT	On-Off-On	0.4V @ 28VAC/DC	360-2130-ND	6.34	4.23	3.79	AS23AH-RO
3	SPDT	On-On	0.4V @ 28VAC/DC	360-2123-ND	4.76	2.98	2.72	AS12AV-RO
	SPDT	On-Off-On	0.4V @ 28VAC/DC	360-2126-ND	4.95	3.15	2.88	AS13AV-RO
Miniature Power Rated Slides								
4	SPDT	On-On	3A @ 125VAC	360-2131-ND	2.69	1.60	1.43	CS12ANW03
	DPDT	On-On	3A @ 125VAC	360-2132-ND	3.42	2.11	1.86	CS22BNW03
Ultra-Miniature Slides								
5	SPDT	On-On	0.1A @ 30VDC	360-2133-ND	1.90	1.12	.97	SS12SDP2
	SP3T	On-On-On	0.1A @ 30VDC	360-2135-ND	2.34	1.41	1.23	SS14MDP2
	DPDT	On-On	0.1A @ 30VDC	360-2137-ND	2.24	1.33	1.18	SS22SDP2
6	SPDT	On-On	0.1A @ 30VDC	360-2134-ND	1.90	1.12	.97	SS12SDH2
	SP3T	On-On-On	0.1A @ 30VDC	360-2136-ND	2.34	1.41	1.23	SS14MDH2
	DPDT	On-On	0.1A @ 30VDC	360-2138-ND	2.24	1.33	1.18	SS22SDH2
Miniature Slides								
7	SPDT	On-On	0.4VA @ 28VAC/DC	360-2380-ND	4.29	2.67	2.42	MS12AFG01
	SPDT	On-On	6A @ 125VAC	360-2381-ND	3.65	2.27	2.06	MS12AFW01-RO
8	SPDT	On-On	0.4VA @ 28VAC/DC	360-2383-ND	4.31	2.78	2.47	MS12ANG03
	SPDT	On-On	6A @ 125VAC	360-2385-ND	3.83	2.38	2.16	MS12ANW03
	SPDT	On-Off-On	6A @ 125VAC	360-2386-ND	4.20	2.70	2.40	MS13ANW03
	DPDT	On-On	0.4VA @ 28VAC/DC	360-2384-ND	6.40	4.26	3.82	MS22ANG03
	DPDT	On-On	6A @ 125VAC	360-2387-ND	5.20	3.46	3.10	MS22ANW03
	DPDT	On-On	0.4VA @ 28VAC/DC	360-2396-ND	6.40	4.26	3.82	MS22BNG03
	DPDT	On-On	6A @ 125VAC	360-2397-ND	5.20	3.46	3.10	MS22BNW03-RO
9	SPDT	On-On	0.4VA @ 28VAC/DC	360-2388-ND	4.84	3.08	2.82	MS12ASG13-RO
	SPDT	On-On	6A @ 125VAC	360-2389-ND	4.31	2.78	2.47	MS12ASW13-RO
10	SPDT	On-On	0.4VA @ 28VAC/DC	360-2390-ND	5.17	3.29	3.01	MS12ASG30-RO
	SPDT	On-On	6A @ 125VAC	360-2391-ND	4.65	2.91	2.66	MS12ASW30-RO
	DPDT	On-On	0.4VA @ 28VAC/DC	360-2392-ND	7.55	5.14	4.53	MS22ASG30-RO
11	SPDT	On-On	0.4VA @ 28VAC/DC	360-2393-ND	5.35	3.47	3.17	MS12ASG40-RO
	SPDT	On-On	6A @ 125VAC	360-2394-ND	4.84	3.08	2.82	MS12ASW40-RO
	SPDT	On-Off-On	0.4VA @ 28VAC/DC	360-2395-ND	5.62	3.74	3.35	MS13ASG40-RO

Dimensions in Inch (mm)

Fig. 1

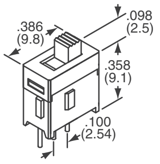

Fig. 2

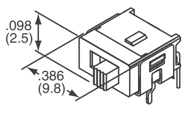

Fig. 3

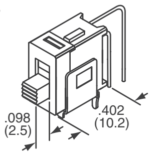

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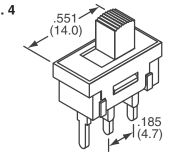

Fig. 5

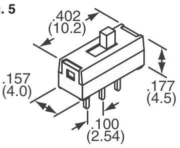

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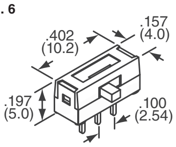

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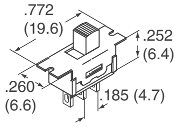

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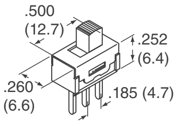

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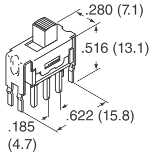

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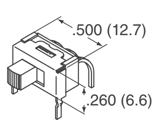

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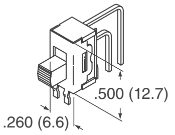

Slide Switches

Made in U.S.A.

Fig. 1

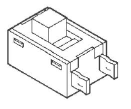

Fig. 2

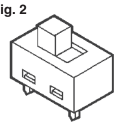

Fig. 3

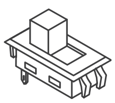

Fig. 4

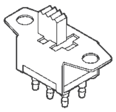

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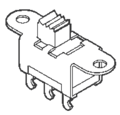

Fig. 6

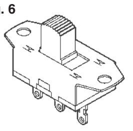

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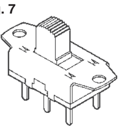

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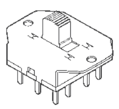

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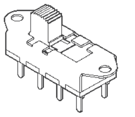

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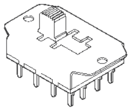

Fig. 11

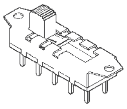

Fig. 12

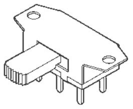

Fig. 13

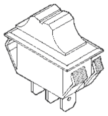

Fig. 14

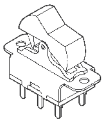

Fig. 15

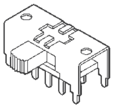

Fig. 16

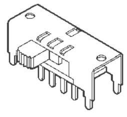

Fig. 17

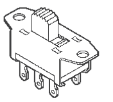

Fig. 18

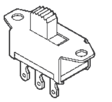

Fig. 19

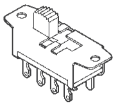

Fig. 20

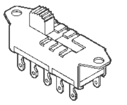

Fig. 21

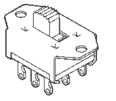

Fig. 22

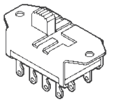

Fig. 23

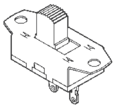

Fig. 24

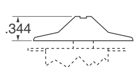

CW Industries slide switches became popular with the industrial explosion after World War I. Thousands of consumer products have used CW Industries slide switches for applications such as: radios, TVs, appliances, and automotive. Aircraft, telephones, and marine equipment use CW Industries slide switches for both power switching and low level switching. Available in both solder eyelet versions for hand soldering or PC mount terminals for direct mounting. All slide switch actuators and buttons are black nylon 6/6. **MATERIALS:** • Buttons: Type 6/6 nylon, black • Moving Contact: Copper; • Moving Contact Plating: Silver • Terminals: Copper • Terminal Plating: Silver **Specifications:** • High Voltage Breakdown: Minimum of 1000 volts RMS, 60Hz for one minute between parts of opposite polarity. • Con-tact resistance: Less than 0.01Ω at 20 milliamperes DC. • Life Cycling (no load): Switches will be operative after 10,000 (minimum) cycles at the rate of 10 cycles per minute • Life Cycling (load): Switches will be operative after 6,000 (minimum) cycles at the rate of 10 cycles per minute at rated load. **APPROVAL LISTING:** UL/CSA

Digi-Key® Slide Switches Kit

Assortment of switches denoted. Includes notebook style storage case and bin storage guide.

*** SW-KIT-ND** 120 total pieces.......................... **$79.95**

		Volts		Curr. Rtg. (A)		Dimensions - Inch (mm)		Digi-Key	Price Each				CW Industries
Fig.	Circuit	DC	AC	DC	AC	L x W x H	Description	Part No.	1	10	50	100	Part No.
1	SPST	125	125	.5	.5	.250 x .320 x .620 (6.35 x 8.13 x 15.75)	Vertical Mount PC Switch	SW100-ND*	1.05	.94	.78	.68	G-105-0513
2	SPDT	125	125	.5	.5	.505 x .305 x .515 (12.83 x 7.75 x 13.08)	Horizontal Mount PC Switch	SW101-ND*	1.63	1.45	1.21	1.05	G-107-0513
3	SPST	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW331-ND	1.57	1.40	1.17	1.01	G-107-SI-0005
	SPDT	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW332-ND	1.66	1.48	1.23	1.07	G-107-SI-0511
4	DPDT	125	125	.5	.5	.762 x .312 x .558 (19.35 x 7.92 x 14.17)	Micro-Miniature Switch	SW102-ND*	1.87	1.67	1.39	1.20	GS-113-0512
5	SPDT	125	125	.5	.5	.750 x .220 x .458 (19.05 x 5.59 x 11.63)	Micro-Miniature Switch	SW103-ND*	.99	.89	.74	.64	GS-115-0511
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch Eyelet Terminal	SW104-ND*	.55	.50	.41	.36	GF-624-6014
	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch (On-Mom)	SW338-ND	1.50	1.34	1.11	.96	G-1132-0003
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch PCB Mount	SW105-ND*	1.54	1.37	1.15	.99	GF-1126-1110
	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch Eyelet Terminal	SW333-ND	1.04	.93	.77	.67	GF-1126-0033
8	4PDT	125	125	.5	6.0	1.360 x 1.000 x .767 (34.54 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW106-ND*	1.74	1.55	1.30	1.12	GF-642-6010
9	DP-3Pos	125	125	.5	3.0	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW117-ND	.85	.76	.63	.55	G-328S-008
	DP-3Pos	125	125	.5	11	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW107-ND*	1.26	1.12	.94	.81	G-1128S-1110
	DP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch Eyelet Terminal	SW334-ND	1.26	1.12	.94	.81	G-1128S-0055
	SP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch (On-Off-Mom)	SW337-ND	1.24	1.03	.86	.78	G-633S-0000
10	4P-3Pos	125	125	.5	6.0	1.656 x 1.000 x .767 (42.06 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW108-ND	1.91	1.71	1.42	1.23	G-660S-6010
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch PCB Mount	SW109-ND	1.51	1.35	1.13	.97	G-1138S-1110
	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch Eyelet Terminal	SW335-ND	1.98	1.68	1.45	1.30	G-1138S-0048
12	DPDT	125	125	.5	3.0	1.360 x .550 x .610 (34.54 x 13.97 x 15.49)	Side Actuated Switch PCB Mount	SW110-ND	.76	.68	.57	.49	GG-350-3010
13	SPDT	125	125	.5	13	1.235 x .680 x 1.397 (31.37 x 17.27 x 35.48)	Pop-in Mount Slide Switch	SW111-ND	1.29	1.15	.96	.83	G-2012-1315
14	DPDT	125	125	.5	6.0	1.375 x .550 x 1.167 (34.93 x 13.97 x 29.64)	Rocker Switch PCB Mount	SW112-ND*	1.53	1.37	1.14	.98	GR5-626-6010
15	DPDT	125	125	.5	3.0	1.000 x .404 x .484 (25.40 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW114-ND*	1.19	1.06	.89	.77	GPI-152-3013
16	DP-3Pos	125	125	.5	3.0	1.170 x .404 x .484 (29.72 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW115-ND*	1.43	1.28	1.07	.92	GPI-154-3013
17	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Miniature Slide Switch Eyelet Terminal	SW116-ND	.81	.72	.60	.52	GF-126-3011
	DPDT	125	125	.5	3.0	.628 x .400 x .735 (15.95 x 10.16 x 18.67)	Miniature Slide Switch w/o Mount Ears, PC Mount	SW342-ND	1.19	1.06	.88	.76	GF-126-0159
	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Slide Switch, PC Mount	SW619-ND	1.38	1.23	1.03	.89	GF-126-0147
18	SPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Spring Return Switch Eyelet Terminal	SW118-ND*	.93	.83	.70	.60	G-133-3011
19	DP-3Pos	125	125	.5	3.0	1.190 x .400 x .745 (30.23 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW119-ND*	1.02	.91	.76	.65	G-128S-3011
20	DP-4Pos	125	125	.5	3.0	1.377 x .400 x .745 (34.98 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW120-ND	1.23	1.10	.91	.79	G-141S-3011
21	3PDT	125	125	.5	3.0	1.000 x .567 x .745 (25.40 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW121-ND*	1.37	1.22	1.02	.88	GF-161-3011
22	3P-3Pos	125	125	.5	3.0	1.190 x .567 x .745 (30.23 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW122-ND	1.35	1.20	1.00	.87	G-168S-3011
	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Standard Size Switch Eyelet Terminal	SW336-ND	1.26	1.12	.93	.81	G-368S-0000
	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch, PC Mount	SW618-ND	1.46	1.30	1.08	.94	G-368S-0001
	3P-3Pos	125	125	.5	6.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch Eyelet Terminal	SW617-ND	1.99	1.69	1.46	1.31	G-668S-0000
23	SPST	125	125	.5	11	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch Eyelet Terminal	SW148-ND	1.61	1.44	1.20	1.03	GF-1123-0009
24	Black Topper Button for SW105-ND, SW107-ND, SW110-ND, SW148-ND, SW333-ND, SW337-ND and SW334-ND							SW149-ND	.22	.20	.17	.15	G-02-072

E•SWITCH®

Slide Switches

Fig. 1

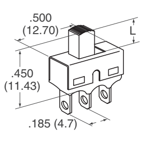

Fig. 2

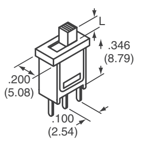

			Dim. L	Switch		Digi-Key	Price Each			E-Switch
Fig.	Circuit	Rating	Inch (mm)	Function	Terminal	Part No.	1	10	100	Part No.
					500 Series					
1	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2473-ND	3.28	2.93	2.52	500SSP1S1M1QEA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2476-ND†	3.04	2.71	2.34	500SSP1S1M1QEB
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	PC Mount	EG2472-ND	3.28	2.93	2.52	500SSP1S1M2REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Right Angle	EG2478-ND	3.56	3.18	2.74	500SSP1S1M6QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Right Angle	EG2477-ND	3.80	3.40	2.93	500SSP1S1M6REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2480-ND	3.74	3.34	2.88	500SSP1S1M7QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2479-ND	3.98	3.56	3.07	500SSP1S1M7REA
	DPDT	5A @ 28VDC	.152 (3.86)	On-On	PC Mount	EG2475-ND	4.45	3.97	3.42	500SDP1S1M2QEA
	DPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	PC Mount	EG2474-ND	4.83	4.31	3.72	500SDP1S1M2REA
2	SPDT	3A @ 28VDC	.122 (3.10)	On-On	PC Mount	EG2481-ND	4.58	4.09	3.52	500ASSP1M2QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	PC Mount	EG2482-ND	4.80	4.29	3.70	500ASSP1M2RE
	SPDT	3A @ 28VDC	.122 (3.10)	On-On	Right Angle	EG2483-ND	5.01	4.47	3.86	500ASSP1M6QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	Right Angle	EG2484-ND	5.23	4.67	4.03	500ASSP1M6RE

† With mounting ears

Slide Switches - EG Series

Specifications: • Initial Contact Resistance: Less than 20mΩ • Withstand Voltage: 500VAC for 1 minute between any terminal and frame • Operating Temperature: -20°C ~ 70°C • Life: 10,000 cycles minimum • Contact: Silver plated copper alloy • Timing: Non-shorting contacts

Dimensions in mm

Fig. 1

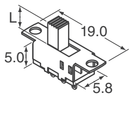

Fig. 2

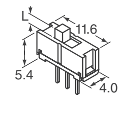

Fig. 3

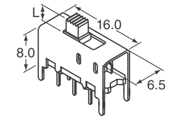

Fig. 4

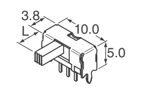

Fig. 5

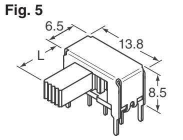

Fig. 6

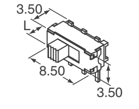

Fig. 7

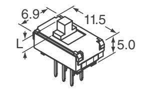

Fig. 8

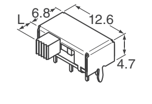

Fig. 9

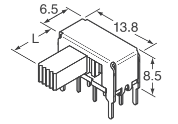

Fig. 10

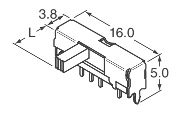

Fig. 11

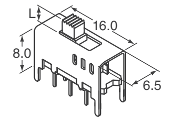

Fig. 12

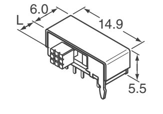

Fig. 13

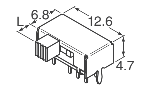

Fig. 14

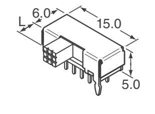

Fig. 15

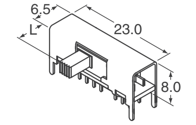

Fig. 16

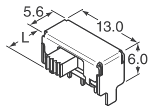

Fig. 17

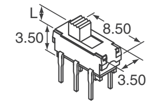

Fig. 18

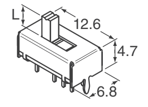

Fig. 19

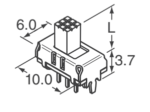

Fig. 20

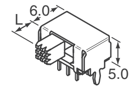

Fig. 21

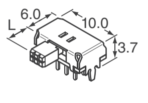

Fig. 22

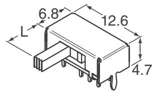

Fig. 23

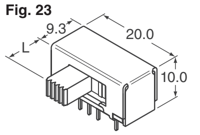

Fig.	Rating	Circuit	Dimension L Inch (mm)	Switching Function	Digi-Key Part No.	Price Each 1	10	100	250	E-Switch Part No.
1	0.2A @ 30VDC	SPDT	.16 (4.0)	On-On	EG1901-ND	.73	.66	.57	.46	EG1201
1	0.2A @ 30VDC	SPDT	.22 (5.6)	On-On	EG1902-ND	.73	.66	.57	.46	EG1201A
2	0.2A @ 30VDC	SPDT	.08 (2.0)	On-On	EG1903-ND	.73	.66	.57	.46	EG1218
3	0.3A @ 30VDC	DPDT	.12 (3.0)	On-On	EG1904-ND	1.01	.91	.78	.63	EG2201
3	0.2A @ 30VDC	DPDT	.24 (6.0)	On-On	EG1905-ND	1.01	.91	.78	.63	EG2201A
4	0.2A @ 30VDC	SPDT	.20 (5.0)	On-On	EG1906-ND	.73	.66	.57	.46	EG1213
5	0.5A @ 15VDC	SPDT	.35 (9.0)	On-On	EG2585-ND	.92	.83	.71	.57	EG1224
6	0.3A @ 30VDC	SPDT	.08 (2.0)	On-On	EG1847-ND	.92	.83	.71	.57	EG1270
7	0.1A @ 12VDC	DPDT	.08 (2.0)	On-On	EG1907-ND	1.01	.91	.78	.63	EG2209
7	0.1A @ 12VDC	DPDT	.16 (4.0)	On-On	EG1908-ND	1.20	1.07	.92	.74	EG2209A
8	0.2A @ 30VDC	DPDT	.14 (3.5)	On-On	EG1909-ND	.92	.83	.71	.57	EG2215
9	0.2A @ 30VDC	DPDT	.35 (9.0)	On-On	EG4367-ND	1.01	.91	.78	.63	EG2219
10	0.2A @ 30VDC	SP3T	.20 (5.0)	On-On-On	EG2485-ND	.92	.83	.71	.57	EG1313
11	0.2A @ 30VDC	DP3T	.12 (3.0)	On-On-On	EG1910-ND	.92	.83	.71	.57	EG2301
11	0.2A @ 30VDC	DP3T	.24 (6.0)	On-On-On	EG1944-ND	1.01	.91	.78	.63	EG2301A
12	0.1A @ 12VDC	DP3T	.16 (4.0)	On-On-On	EG1911-ND	.97	.87	.75	.60	EG2308
12	0.1A @ 12VDC	DP3T	.24 (6.0)	On-On-On	EG1945-ND	1.01	.91	.78	.63	EG2308A
13	0.2A @ 30VDC	DP3T	.14 (3.5)	On-On-On	EG1913-ND	.73	.66	.57	.46	EG2315
14	0.2A @ 30VDC	4PDT	.24 (6.0)	On-On	EG1949-ND	1.65	1.48	1.28	1.02	EG4208A
14	0.2A @ 30VDC	4PDT	.16 (4.0)	On-On	EG1914-ND	1.75	1.56	1.35	1.08	EG4208
15	0.2A @ 30VDC	4P3T	.20 (5.0)	On-On-On	EG1915-ND	1.93	1.73	1.49	1.19	EG4319
16	0.2A @ 30VDC	SPDT	.12 (3.0)	On-On	EG1916-ND	.73	.66	.57	.46	EG1206
16	0.2A @ 30VDC	SPDT	.24 (6.0)	On-On	EG1917-ND	.73	.66	.57	.46	EG1206A
17	0.3A @ 30VDC	SPDT	.08 (2.0)	On-On	EG1918-ND	.83	.74	.64	.51	EG1271
17	0.3A @ 30VDC	SPDT	.17 (4.4)	On-On	EG1919-ND	.83	.74	.64	.51	EG1271A
18	0.2A @ 30VDC	DP3T	.16 (4.0)	On-On-On	EG1920-ND	1.10	.99	.85	.68	EG2305
18	0.2A @ 30VDC	DP3T	.08 (2.0)	On-On-On	EG1921-ND	1.10	.99	.85	.68	EG2305A
19	0.2A @ 30VDC	DPDT	.16 (4.0)	On-On	EG1940-ND	.92	.83	.71	.57	EG2207
20	0.2A @ 30VDC	DPDT	.16 (4.0)	On-On	EG1941-ND	.92	.83	.71	.57	EG2208
20	0.2A @ 30VDC	DPDT	.24 (6.0)	On-On	EG1942-ND	.92	.83	.71	.57	EG2208A
21	0.2A @ 30VDC	DPDT	.16 (4.0)	On-On	EG1943-ND	.92	.83	.71	.57	EG2211
21	0.2A @ 30VDC	DPDT	.08 (2.0)	On-On	EG2486-ND	.92	.83	.71	.57	EG2211A
22	0.2A @ 30VDC	DP3T	.24 (6.0)	On-On-On	EG1946-ND	.85	.76	.66	.53	EG2310
22	0.2A @ 30VDC	DP3T	.16 (4.0)	On-On-On	EG1947-ND	.97	.87	.75	.60	EG2310A
23	0.2A @ 30VDC	DP3T	.28 (7.0)	On-On-On	EG1948-ND	1.01	.91	.78	.63	EG2322

SMT Miniature Slide Switches - EG Series

Dimensions in mm

Fig. 1

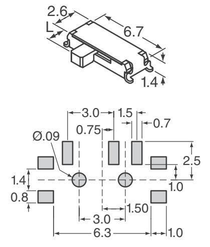

Fig. 2

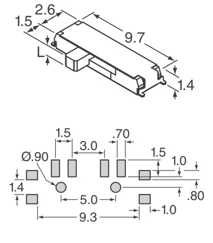

Fig. 3

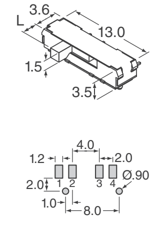

Fig. 4

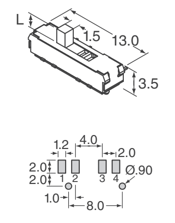

Fig. 5

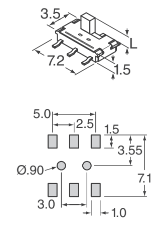

Fig. 6

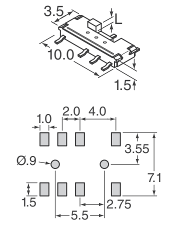

Fig.	Rating	Circuit	Dimension L Inch (mm)	Switching Function	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	E-Switch Part No.
1	0.3A @ 4VDC	SPDT	.06 (1.5)	On-On	EG2586CT-ND	1.49	1.19	1.07	.92	EG2586TR-ND	3,300	514.80/M	EG1257
2	0.3A @ 4VDC	SP3T	.04 (1.1)	On-On-On	EG4628CT-ND	.61	.49	.45	.38	EG4628TR-ND	3,000	211.90/M	EG1300A
	0.3A @ 4VDC	SP3T	.016 (0.4)	On-On-On	EG4629CT-ND	.45	.41	.36	.30	EG4629TR-ND	3,000	207.83/M	EG1300B
3	0.3A @ 6VDC	SP3T	.08 (2.0)	On-On-On	EG4630CT-ND	.59	.47	.43	.36	EG4630TR-ND	1,200	226.20/M	EG1380A
4	0.3A @ 6VDC	SP3T	.08 (2.0)	On-On-On	EG4631CT-ND	.59	.47	.43	.36	EG4631TR-ND	900	245.70	EG1381A
5	0.3A @ 4VDC	DPDT	.04 (1.0)	On-On	EG4632CT-ND	.66	.53	.48	.41	EG4632TR-ND	1,500	255.20/M	EG1390A
	0.3A @ 4VDC	DPDT	.08 (2.0)	On-On	EG4633CT-ND	.66	.53	.48	.41	EG4633TR-ND	1,200	255.20/M	EG1390B
6	0.3A @ 4VDC	DP3T	.04 (1.0)	On-On-On	EG4634CT-ND	.61	.49	.45	.38	EG4634TR-ND	1,500	236.36/M	EG1400A
	0.3A @ 4VDC	DP3T	.1 (2.5)	On-On-On	EG4635CT-ND	.64	.51	.46	.40	EG4635TR-ND	1,200	246.50/M	EG1400B

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Slide Switches

Dimensions in mm

Series	Electrical Life (Minimum)	Operating Temperature	Actuation Force
MJS	10,000 cycles	-10° ~ 60°C	225g (average)
MSSA	10,000 cycles	-10° ~ 60°C	250g ±150g
MA	10,000 cycles	-10° ~ 60°C	200g ±100g
MHSS	5,000 cycles	-20° ~ 70°C	200g ±50g
MS	10,000 cycles	-10° ~ 60°C	250 ±150g

Series	Electrical Life (Minimum)	Operating Temperature	Actuation Force
MMS	10,000 cycles	-20° ~ 70°C	400g ±200g
NK	2,000 cycles	-40° ~ 85°C	300g ±50g
MSTS	10,000 cycles	-20° ~ 85°C	200 ±600g
MHS	10,000 cycles	-20° ~ 85°C	250 ±150g

Series	Electrical Life (Minimum)	Operating Temperature	Actuation Force
SLB	10,000 cycles	-20° ~ 85°C	220g ±100g
G	20,000 cycles	-30° ~ 85°C	300 ±50g
25xxxN	10,000 cycles	-40° ~ 85°C	150g ±50g
MSS	10,000 cycles	-10° ~ 60°C	300 ±150g

Fig. 1

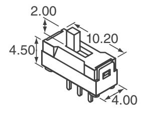

Fig. 2

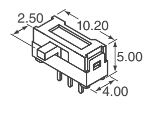

Fig. 3

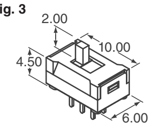

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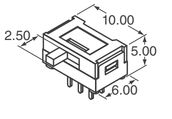

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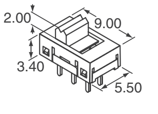

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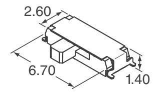

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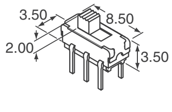

Fig. 8

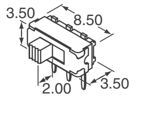

Fig. 9

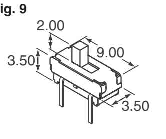

Fig. 10

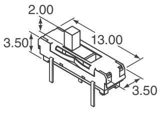

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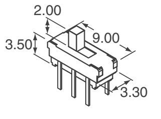

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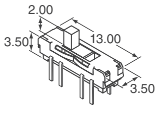

Fig. 13

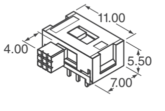

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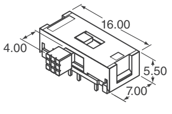

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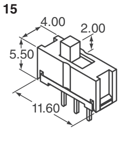

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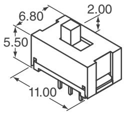

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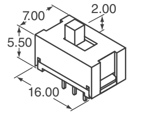

Fig. 18

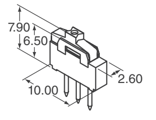

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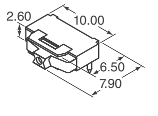

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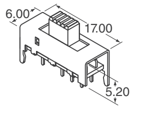

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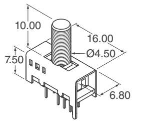

Fig. 22

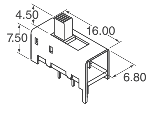

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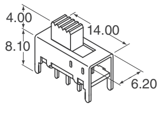

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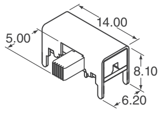

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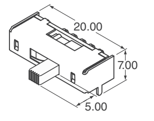

Fig. 26

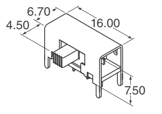

Fig. 27

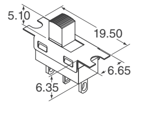

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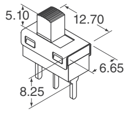

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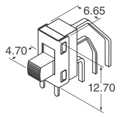

Fig. 30

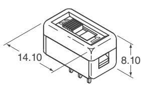

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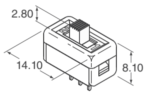

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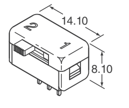

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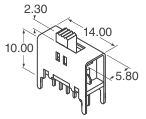

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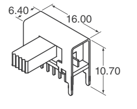

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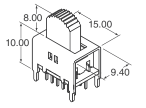

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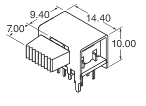

Fig.	Circuit	Contact Material	Contact Rating	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Microminiature Slide Switches								
MJS Series								
1	SPDT	Silver	100mA @ 12VDC	679-1842-ND	1.80	1.65	1.49	MJS12
2	SPDT	Silver	100mA @ 12VDC	679-1843-ND	1.80	1.65	1.49	MJS12R
3	DPDT	Silver	100mA @ 12VDC	679-1844-ND	2.14	1.96	1.77	MJS22
4	DPDT	Silver	100mA @ 12VDC	679-1845-ND	2.28	2.08	1.88	MJS22R
MSSA Series								
5	DPDT	Gold	0.4VA @ 20VAC/DC	679-1846-ND	2.41	2.21	1.99	MSSA22G
MA Series								
6	SPDT	Silver	300mA @ 4VDC	679-1847-1-ND†	1.09	.98	.87	MA12R/TR
6	SPDT	Silver	300mA @ 4VDC	679-1847-2-ND‡	1848.00/3,300			MA12R/TR
MHSS Series								
7	SPDT	Silver	300mA @ 6VDC	679-1848-ND	.58	.53	.48	MHSS1104
8	SPDT	Silver	300mA @ 6VDC	679-1849-ND	.58	.53	.48	MHSS1105
MS Series								
9	SPDT	Silver	300mA @ 6VDC	679-1850-ND	.88	.81	.73	MS12
10	SP3T	Silver	300mA @ 6VDC	679-1851-ND	.95	.87	.79	MS13
11	DPDT	Silver	300mA @ 6VDC	679-1852-ND	.85	.78	.70	MS22
12	DP3T	Silver	300mA @ 6VDC	679-1853-ND	1.80	1.65	1.49	MS23
MMS Series								
13	DPDT	Silver	300mA @ 30VDC	679-1856-ND	.85	.78	.70	MMS22R
14	DP3T	Silver	300mA @ 30VDC	679-1857-ND	1.09	1.00	.90	MMS23R
14	4PDT	Silver	300mA @ 30VDC	679-1859-ND	1.22	1.12	1.01	MMS42R
15	SPDT	Silver	300mA @ 30VDC	679-1854-ND	.92	.84	.76	MMS1208
16	DPDT	Silver	300mA @ 30VDC	679-1855-ND	1.43	1.31	1.18	MMS2214
17	4PDT	Silver	300mA @ 30VDC	679-1858-ND	1.26	1.15	1.04	MMS42
NK Series								
18	SPDT	Gold	500mA @ 12VDC	679-1860-ND	1.73	1.59	1.43	NK236
18	SPDT	Gold	500mA @ 12VDC	679-1861-ND	1.84	1.68	1.52	NK236H
19	SPDT	Gold	500mA @ 12VDC	679-1862-ND	2.41	2.21	1.99	NK236W
19	SPDT	Gold	500mA @ 12VDC	679-1863-ND	2.41	2.21	1.99	NK236WH
Miniature Slide Switches								
MSTS Series								
20	SP3T	Silver	300mA @ 28VDC	679-1864-ND	.65	.60	.54	MSTS1332K
20	DP3T	Silver	300mA @ 28VDC	679-1865-ND	.71	.65	.59	MSTS2332K
MHS Series								
21	SPDT	Silver	300mA @ 30VDC	679-1866-ND	1.73	1.59	1.43	MHS122K
21	SPDT	Silver	300mA @ 30VDC	679-1867-ND	1.84	1.68	1.52	MHS123K
21	DP3T	Silver	300mA @ 30VDC	679-1868-ND	1.94	1.77	1.60	MHS233K
22	SPDT	Silver	300mA @ 30VDC	679-1839-ND	1.02	.93	.84	MHS122
22	SPDT	Silver	300mA @ 30VDC	679-1840-ND	1.02	.93	.84	MHS123
22	SP3T	Silver	300mA @ 30VDC	679-1869-ND	1.02	.93	.84	MHS133
22	DP3T	Silver	300mA @ 30VDC	679-1841-ND	1.12	1.03	.93	MHS233

Fig.	Circuit	Contact Material	Contact Rating	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
SLB Series								
23	SPDT	Silver	300mA @ 125VAC	679-1870-ND	1.22	1.12	1.01	SLB12804
24	SPDT	Silver	300mA @ 125VAC	679-1871-ND	1.22	1.12	1.01	SLB1280R5
25	SP3T	Silver	300mA @ 125VAC	679-1873-ND	1.70	1.55	1.40	SLB1370R
25	SP4T	Silver	300mA @ 125VAC	679-1874-ND	1.84	1.68	1.52	SLB1470R
26	SP3T	Silver	300mA @ 125VAC	679-1872-ND	1.53	1.40	1.26	SLB1340R4.5
26	DPDT	Silver	300mA @ 125VAC	679-1875-ND	1.51	1.38	1.25	SLB2240R4.5
G Series								
27	SPDT	Gold	0.4A @ 20VAC/DC	679-1878-ND	3.40	3.10	2.80	GH36S000001
27	SPDT	Silver	4A @ 125VAC	679-1879-ND	3.40	3.10	2.80	GH36S010001
27	SPDT	Silver	4A @ 125VAC	679-1883-ND	4.22	3.85	3.48	GH39S010001
28	SPDT	Gold	0.4VA @ 20VAC/DC	679-1876-ND	3.71	3.38	3.06	GH36P000001
28	SPDT	Silver	4A @ 125VAC	679-1877-ND	3.47	3.17	2.86	GH36P010001
28	SPDT	Silver	4A @ 125VAC	679-1882-ND	7.45	6.79	6.14	GH39P010001
29	SPDT	Gold	0.4VA @ 20VAC/DC	679-1880-ND	5.24	4.78	4.32	GH36WW00001
29	SPDT	Silver	4A @ 125VAC	679-1881-ND	5.85	5.34	4.82	GH36WW10001
29	SPDT	Gold	0.4VA @ 20VAC/DC	679-1884-ND	5.81	5.31	4.79	GH39WW00001
29	SPDT	Silver	4A @ 125VAC	679-1885-ND	6.12	5.58	5.04	GH39WW10001
25xxxN Series								
30	SPDT	Silver	4A @ 125VAC	679-1886-ND	3.74	3.41	3.08	25136NAB
30	SPDT	Silver	4A @ 125VAC	679-1888-ND	4.22	3.85	3.48	25139NAB
30	DPDT	Silver	4A @ 125VAC	679-1891-ND	5.88	5.37	4.85	25146NAB
31	SPDT	Silver	4A @ 125VAC	679-1887-ND	3.74	3.41	3.08	25136NAH
31	SPDT	Silver	4A @ 125VAC	679-1889-ND	3.74	3.41	3.08	25139NAH
31	SPDT	Gold	100mA @ 30VDC	679-1890-ND	3.88	3.54	3.20	25139NLDH
31	DPDT	Silver	4A @ 125VAC	679-1892-ND	5.95	5.43	4.90	25146NAH
32	SPDT	Silver	4A @ 125VAC	679-1893-ND	3.74	3.41	3.08	25336NA
32	SPDT	Gold	100mA @ 30VDC	679-1894-ND	3.81	3.48	3.14	25336NLD
32	SPDT	Gold	100mA @ 30VDC	679-1895-ND	3.81	3.48	3.14	25339NLD
32	DPDT	Silver	4A @ 125VAC	679-1897-ND	8.70	7.94	7.17	25349NA
32	DPDT	Silver	4A @ 125VAC	679-1896-ND	5.92	5.40	4.88	25346NA6
Standard Size Slide Switches								
MSS Series								
33	DPDT	Silver	300mA @ 125VAC	679-1836-ND	.90	.83	.75	MSS22
33	DPDT	Gold	0.4VA @ 20VAC/DC	679-1837-ND	2.13	1.94	1.75	MSS22G
34	DPDT	Silver	300mA @ 125VAC	679-1898-ND	1.09	1.00	.90	MSS225R
34	DPDT	Gold	0.4VA @ 20VAC/DC	679-1838-ND	2.45	2.24	2.02	MSS225RG
35	4PDT	Silver	300mA @ 125VAC	679-1899-ND	1.22	1.12	1.01	MSS42
35	4PDT	Gold	0.4VA @ 20VAC/DC	679-1900-ND	3.67	3.35	3.03	MSS42G
36	4PDT	Silver	300mA @ 125VAC	679-1901-ND	1.19	1.09	.98	MSS42R

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Slide Switches

ASE/F Series: Features: • Unique design allows aqueous or solvent cleaning processes • High temperature anti-static plastic construction will withstand most surface mount, vapor phase reflow or wave soldering conditions • Industry standard .100 x .300 pin spacing **Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 115VAC 28VDC • Initial Contact Resistance: 40mΩ max. • Insulation Resistance: 1,000MΩ @ 500VDC min. • Contact Timing: Shorting • Operating Temp.: -40°C ~ 80°C **MHS Series: Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -20°C ~ 100°C **MLL Series: Specifications:** • Contact Rating: 0.3A @ 4VDC • Initial Contact Resistance: 70mΩ • Insulation Resistance: 100MΩ min. • Actuation Force: 175 ±100 Grams • Operating Temp.: -10°C ~ 60°C **MMS Series: Specifications:** • Contact Rating: 100mA @ 30VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -10°C ~ 60°C **MSS Series: Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -20°C ~ 85°C **STS Series: Specifications:** • Contact Rating: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 100MΩ min. @ 500VDC • Contact Timing: Make-before-break • Operating Temp.: -15°C ~ 60°C **SLS Series: Specifications:** • Contact Rating: 250mA @ 125VAC, 150mA @ 12VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 500MΩ min. • Contact Timing: Break-before-make • Operating Temp.: -10°C ~ 85°C **SSA Series: Specifications:** • Contact Rating: Gold: 0.4VA max. @ 20VDC; Silver: 100mA @ 30VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Break-before-make • Operating Temp.: -20°C ~ 70°C **SSJ Series: Specifications:** • Contact Rating: 100mA @ 12VDC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -10°C ~ 60°C **TSS Series: Specifications:** • Contact Rating: 0.4VA max. @ 20VDC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. @ 500VDC • Contact Timing: Non-shorting • Operating Temp.: -20°C ~ 80°C

Fig. 1

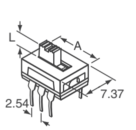

Fig. 2

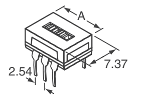

Fig. 3

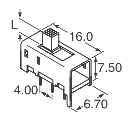

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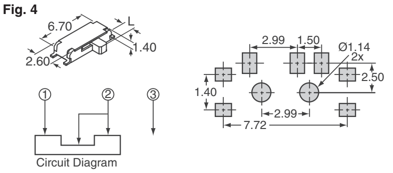

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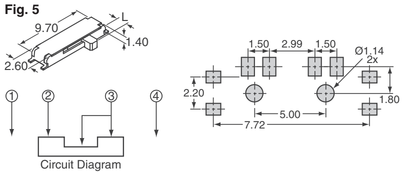

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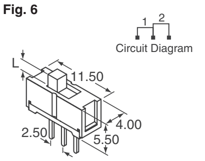

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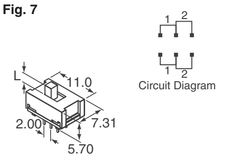

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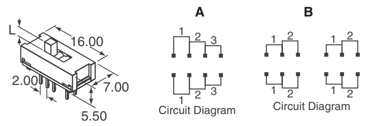

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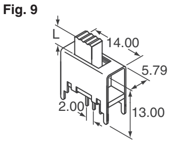

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Fig. 10

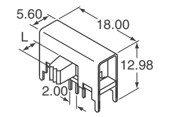

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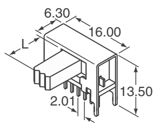

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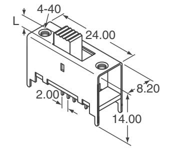

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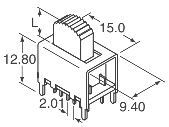

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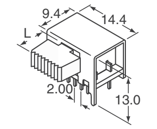

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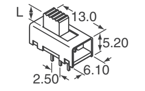

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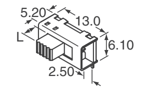

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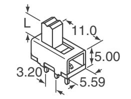

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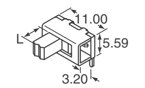

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Fig. 19

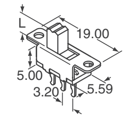

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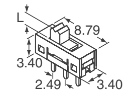

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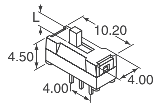

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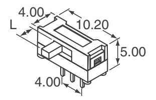

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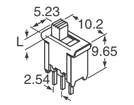

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Fig. 24

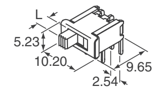

SPDT Shown

Fig.	Circuit	Contact Material	Dimensions (mm)		Digi-Key Part No.	Price Each			Tyco Electronics Part No.
			A	L		1	10	100	
ASE/F Series Auto Insertable									
1	DPDT	Silver	10.2	2.79	450-1557-ND	3.94	3.50	2.74	ASE2204
	DPDT	Gold	10.2	2.79	450-1628-ND	5.52	4.90	3.83	ASE22G04
	4PDT	Silver	17.8	2.79	450-1633-ND	4.34	3.85	3.01	ASE4204
	4PDT	Gold	17.8	2.79	450-1558-ND	5.74	5.09	3.98	ASE42G04
	6PDT	Silver	25.4	2.79	450-1559-ND	6.51	5.78	4.52	ASE6204
	6PDT	Gold	25.4	2.79	450-1560-ND	6.48	5.75	4.50	ASE62G04
2	DPDT	Silver	10.2	—	450-1561-ND	4.34	3.85	3.01	ASF2204
	DPDT	Gold	10.2	—	450-1562-ND	7.29	6.47	5.06	ASF22G04
	4PDT	Silver	17.8	—	450-1563-ND	4.53	4.02	3.14	ASF4204
	4PDT	Gold	17.8	—	450-1564-ND	5.83	5.17	4.05	ASF42G04
	6PDT	Silver	25.4	—	450-1565-ND	6.48	5.75	4.50	ASF6204
	6PDT	Gold	25.4	—	450-1566-ND	9.86	8.75	6.84	ASF62G04

Fig.	Circuit	Switching Function	Contact Material	Dimension L (mm)	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
						1	10	100	
MHS Series, Low Profile, Instrumentation Grade									
3	SPDT	On-On	Silver	4.5	450-1567-ND	.87	.77	.61	MHS12204
	SPDT	On-Off-On	Silver	4.5	450-1569-ND	1.81	1.61	1.26	MHS12304
	SP3T	On-On-On	Silver	4.5	450-1570-ND	1.46	1.30	1.02	MHS13304
	SP3T	On-On-On	Gold	4.5	450-1571-ND	1.22	1.08	.85	MHS133G04
	DPDT	On-On	Silver	4.5	450-1572-ND	1.82	1.62	1.27	MHS22204
	DPDT	On-On	Gold	4.5	450-1573-ND	8.31	7.37	5.77	MHS222G04
	DPDT	On-Off-On	Silver	4.5	450-1574-ND	2.86	2.55	1.99	MHS22304
	DPDT	On-Off-On	Gold	4.5	450-1629-ND	4.71	4.18	3.27	MHS223G04
	DP3T	On-On-On	Silver	4.5	450-1575-ND	2.08	1.85	1.45	MHS23304
	DP3T	On-On-On	Gold	4.5	450-1576-ND	8.15	7.24	5.66	MHS233G04
MLL Series, Miniature, Right Angle, SMT									
4	SPDT	On-On	Silver	1.5	450-1577-ND	2.21	1.96	1.54	MLL1200S
5	SP3T	On-On-On	Silver	1.5	450-1630-ND	2.60	2.31	1.80	MLL1300S
MMS Series, Micro Size, Instrumentation Grade									
6	SPDT	On-On	Silver	2.03	450-1578-ND	2.19	1.94	1.52	MMS12
7	DPDT	On-On	Silver	2.00	450-1579-ND	3.10	2.75	2.15	MMS22
8A	DP3T	On-On-On	Silver	2.02	450-1580-ND	2.76	2.45	1.92	MMS23
8B	4PDT	On-On	Silver	2.0	450-1581-ND	3.69	3.28	2.56	MMS42
MSS Series, Instrumentation Grade, 2.00mm Spacing									
9	SPDT	On-On	Silver	5.00	450-1582-ND	2.69	2.39	1.87	MSS120004
	SPDT	On-On	Gold	5.00	450-1583-ND	4.09	3.63	2.84	MSS1200G04
	DPDT	On-On	Silver	2.3	450-1587-ND	1.86	1.65	1.29	MSS220004
	DPDT	On-On	Gold	2.3	450-1588-ND	1.41	1.25	.98	MSS2200G04
	DPDT	On-On	Silver	11.0	450-1589-ND	1.82	1.62	1.27	MSS225004
	DPDT	On-On	Gold	11.0	450-1632-ND	3.16	2.81	2.20	MSS2250G04
10	SPDT	On-On	Silver	3.99	450-1584-ND	4.06	3.61	2.82	MSS1200R04
	SPDT	On-On	Gold	3.99	450-1631-ND	3.01	2.67	2.09	MSS1200RG04
11	DPDT	On-On	Silver	9.5	450-1590-ND	2.48	2.21	1.73	MSS2250R04
	DPDT	On-On	Gold	9.5	450-1591-ND	4.71	4.18	3.27	MSS2250RG04
12	SP3T	On-On-On	Silver	3.80	450-1585-ND	3.81	3.39	2.65	MSS130004
	SP3T	On-On-On	Gold	3.80	450-1586-ND	4.15	3.69	2.89	MSS1300G04
13	4PDT	On-On	Silver	8.0	450-1592-ND	2.20	1.96	1.53	MSS420004
	4PDT	On-On	Gold	8.0	450-1593-ND	2.60	2.31	1.81	MSS4200G04
14	4PDT	On-On	Silver	7.0	450-1594-ND	3.91	3.47	2.71	MSS4200R04
	4PDT	On-On	Gold	7.0	450-1595-ND	7.10	6.30	4.93	MSS4200RG04
STS Series, Miniature, Low Profile, Economy Grade									
15	SPDT	On-On	Silver	4.0	450-1609-ND	1.39	1.24	.97	STS121PC04
	SP3T	On-On-On	Silver	4.0	450-1611-ND	2.00	1.78	1.39	STS1300PC04
	SP3T	On-On-On	Silver	4.0	450-1613-ND	1.93	1.71	1.34	STS131PC04
	SP4T	On-On-On-On	Silver	4.0	450-1615-ND	1.94	1.73	1.35	STS1400PC04
	DPDT	On-On	Silver	4.0	450-1616-ND	1.96	1.74	1.37	STS220PC04
	DP3T	On-On-On	Silver	4.0	450-1617-ND	3.04	2.70	2.11	STS2300PC04
	DP3T	On-On-On	Silver	4.0	450-1618-ND	2.57	2.28	1.79	STS230PC04
	DP4T	On-On-On-On	Silver	4.0	450-1619-ND	3.29	2.92	2.28	STS2400PC04
	DP4T	On-On-On-On	Silver	4.0	450-1620-ND	2.34	2.08	1.63	STS240PC04
16	SPDT	On-On	Silver	4.0	450-1610-ND	1.72	1.53	1.20	STS121RA04
	SP3T	On-On-On	Silver	4.0	450-1612-ND	2.19	1.94	1.52	STS1300RA04
	SP3T	On-On-On	Silver	4.0	450-1614-ND	2.05	1.82	1.43	STS131RA04
SLS Series, Miniature, Rolling Contact, Economy Grade									
17	SPDT	On-On	Silver	5.0	450-1597-ND	1.56	1.39	1.09	SLS121104
	SPDT	On-On	Silver	5.0	450-1598-ND	1.34	1.19	.93	SLS121PC04
	SP3T	On-On-On	Silver	5.0	450-1600-ND	3.78	3.36	2.63	SLS131PC04
18	SPDT	On-On	Silver	5.0	450-1599-ND	1.91	1.70	1.33	SLS121RA04
	SP3T	On-On-On	Silver	5.0	450-1601-ND	2.52	2.24	1.75	SLS131RA04
19	SPDT	On-On	Silver	5.0	450-1596-ND	3.16	2.81	2.20	SLS12104
SSA Series, Micro Size, Instrumentation Grade									
20	SPDT	On-On	Silver	2.01	450-1602-ND	2.00	1.78	1.39	SSA12
	SPDT	On-On	Gold	2.01	450-1603-ND	2.71	2.41	1.88	SSA12G
	DPDT	On-On	Silver	2.0	450-1604-ND	2.71	2.41	1.88	SSA22
	DPDT	On-On	Gold	2.0	450-1605-ND	3.66	3.25	2.54	SSA22G
SSJ Series, Micro Size, Instrumentation Grade									
21	SPDT	On-On	Silver	2.0	450-1634-ND	1.53	1.36	1.06	SSJ1204
	SP3T	On-On-On	Silver	2.0	450-1636-ND	1.74	1.54	1.21	SSJ1304
22	SPDT	On-On	Silver	2.5	450-1635-ND	.92	.82	.64	SSJ12R04
TSS Series Slide Switches									
23	SPDT	On-On	Gold	2.79	450-1621-ND	6.54	5.81	4.54	TSS11DGPC04
	SPDT	On-Off-On	Gold	2.79	450-1623-ND	6.57	5.83	4.56	TSS11EGPC04
	DPDT	On-On	Gold	2.79	450-1624-ND	8.04	7.34	5.93	TSS21NGPC04
	4PDT	On-On	Gold	2.79	450-1626-ND	14.54	13.26	10.71	TSS41NGPC
24	SPDT	On-On	Gold	2.79	450-1622-ND	5.83	5.17	4.05	TSS11DGRA04
	DPDT	On-On	Gold	2.79	450-1625-ND	11.09	10.12	8.17	TSS21NGRA04
	4PDT	On-On	Gold	2.79	450-1627-ND	17.98	16.41	13.26	TSS41NGRA

C&K Slide Switches

1000 Series: **Specifications:** • Contact Rating: B, K and G contact material: 0.4VA maximum @ 20VAC or DC maximum Q contact material: 6A @ 120VAC or 28VDC, 3A @ 250VAC • Electrical Life: 100,000 make-and-break cycles at full load with contact material B or K; 40,000 cycles with G and Q contact material • Operating temperature: -30°C ~ 65°C **Materials:** • Case: diallyl phthalate (DAP), (UL94V-O) • Housing: Stainless steel • Contacts: B contact material: copper alloy with gold plate over nickel plate. Q contact material: Coin silver, silver plated G contact material: Gold over Silver • Terminal Seal: Epoxy

L Series: **Specifications:** • Contact Rating: LXOX, LX1X Models: Q contact material: 4A @ 125VAC or 28VDC; 2 Amps @ 250VAC; 0.5 Amp @ 125VDC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Q Contacts only: Copper, silver plated

S Series: **Specifications:** • Contact Rating: S6XX Models: Q contact material: 12A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC (UL/CSA) S8XX models: 15A @ 125VAC; 6A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: 6/6 nylon (UL94V-2), black • Q Contacts (S1XX and S2XX only): Copper, silver plated

TS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20V AC or DC maximum. Q contact material TS01: 3A @ 120VAC or 28VDC; TS03: 1A @ 120VAC or 28VDC • Electrical Life: TS01: 60,000 make-and-break cycles at full load; TS03: 30,000 make-and-break cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: Stainless Steel or stainless steel, nickel plated • B contact: Copper alloy, with gold plate over nickel plate. Q Contacts: Copper alloy, silver plated

GS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Storage and Operating Temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-O) • Movable Contact: Copper with gold plate over nickel plate • Terminal Seal: Epoxy. All terminals insert molded

LP Series: **Specifications:** • Contact Rating: LPOX, LP2X Models: Q contact material: 6A @ 125VAC or 28V DC; 3A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated

V Series: **Specifications:** • Contact Rating: Q contact material: 10.1A @ 125VAC; 4A @ 28VDC; 5A @ 250VAC (UL/CSA); 2.0 (0.5)A @ 250VAC, T85 (VDE) • Electrical Life: 10,000 make-and-break cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: Glass filled polyester; '01 and '02 styles: black (standard); '12, '13 and '14 styles: red (standard) • Contacts: Copper, silver plated

ES Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Nylon (UL94V-O) • Terminals: Copper alloy with tin-lead alloy over nickel plate • Base and Terminal Seal: Epoxy

Fig. 1

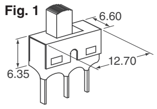

SPDT Shown

Fig. 2

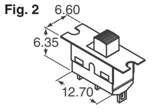

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Fig. 3

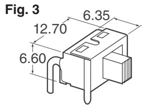

SPDT Shown

Fig. 4

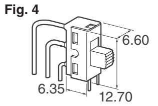

SPDT Shown

Fig. 5

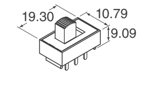

SPDT Shown

Fig. 6

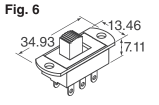

DPDT Shown

Fig. 7

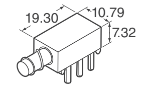

Fig. 8

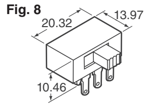

DPDT Shown

Fig. 9

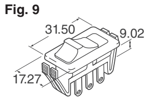

Snap-In

Fig. 10

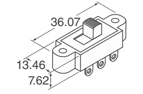

Fig. 11

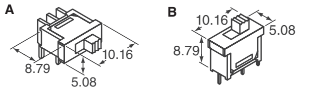

Fig. 12

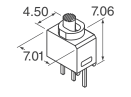

Fig. 13

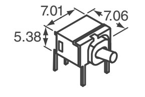

Fig. 14

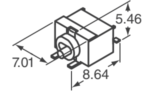

Fig. 15

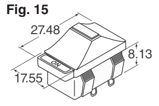

Snap-In

Fig. 16

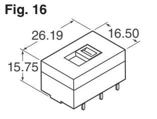

Fig. 17

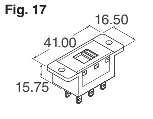

Fig. 18

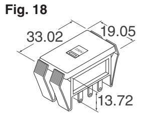

Fig. 19

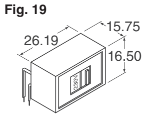

Fig. 20

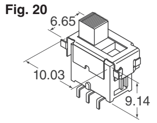

Fig. 21

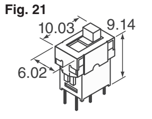

Fig. 22

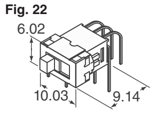

Fig. 23

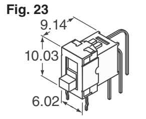

Termination Options

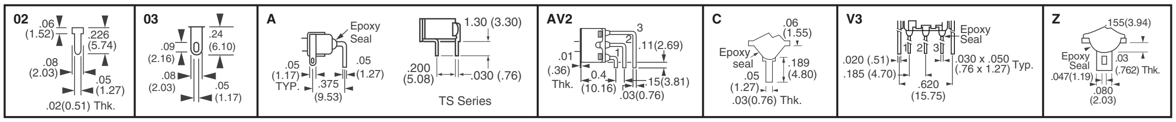

Actuator

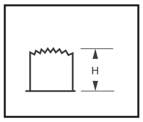

Fig.	Circuit	Options (see diagram) Switching Function	Actuator H (In.)	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
						1000 Series				
1	SPDT	On-On	0.2	C	B	CKN5000-ND	4.52	3.62	2.87	1101M2S3CBE2
	SPDT	On-On	0.2	C	Q	CKN5001-ND	4.52	3.62	2.87	1101M2S3CQE2
	SPDT	On-On	0.2	V3	B	CKN5048-ND	5.18	4.14	3.28	1101M2S3V3BE2
	SPDT	On-On	0.2	C	G	CKN9628-ND ✔	5.38	4.31	3.41	1101M2S3CGE2
	SPDT	On-Off-On	0.2	C	Q	CKN5051-ND	5.31	4.25	3.37	1103M2S3CQE2
	SPDT	Mom-On	0.2	C	G	CKN9630-ND ✔	6.00	4.80	3.80	1108M2S3CGE2
	DPDT	On-On	0.2	C	B	CKN5002-ND	8.81	7.05	5.58	1201M2S3CBE2
	DPDT	On-On	0.2	V3	Q	CKN10170-ND ✔	10.11	8.09	6.41	1201M2S3V3QE2
	DPDT	On-On	0.2	C	Q	CKN5003-ND	8.81	7.05	5.58	1201M2S3CQE2
	DPDT	On-On	0.04	C	Q	CKN5052-ND	8.81	7.05	5.58	1201M2S1CQE2
	DPDT	On-On	0.2	V3	B	CKN5056-ND	10.11	8.09	6.41	1201M2S3V3BE2
	DPDT	On-Off-On	0.2	V3	B	CKN5057-ND	11.27	9.02	7.15	1203M2S3V3BE2
2	SPDT	On-On	0.2	Z	Q	CKN5004-ND	4.39	3.51	2.78	1101M1S3ZQE2
	SPDT	On-On	0.14	Z	Q	CKN5058-ND	4.39	3.51	2.78	1101M1S2ZQE2
	SPDT	On-On	0.2	Z	B	CKN5059-ND	4.39	3.51	2.78	1101M1S3ZBE2
	SPDT	On-On	0.2	Z	G	CKN5060-ND	5.24	4.20	3.33	1101M1S3ZGE2
	DPDT	On-On	0.2	Z	Q	CKN5061-ND	8.53	6.83	5.41	1201M1S3ZQE2
3	SPDT	On-On	0.2	A	B	CKN5005-ND	5.18	4.14	3.28	1101M2S3ABE2
	SPDT	On-On	0.2	A	Q	CKN5006-ND	5.18	4.14	3.28	1101M2S3AQE2
	SPDT	On-On	0.285	A	K	CKN5049-ND	5.61	4.50	3.56	1101M2S4AKE2
	SPDT	On-On	0.285	A	Q	CKN5050-ND	5.18	4.14	3.28	1101M2S4AQE2
	SPDT	On-Off-On	0.2	A	Q	CKN9629-ND ✔	5.96	4.77	3.78	1103M2S3AQE2
	DPDT	On-On	0.2	A	B	CKN5053-ND	10.11	8.09	6.41	1201M2S3ABE2
	DPDT	On-On	0.2	A	Q	CKN5054-ND	10.11	8.09	6.41	1201M2S3AQE2
4	SPDT	On-On	0.2	AV2	B	CKN5007-ND	5.18	4.14	3.28	1101M2S3AV2BE2
	SPDT	On-On	0.2	AV2	Q	CKN5008-ND	5.18	4.14	3.28	1101M2S3AV2QE2
	SPDT	On-On	0.2	AV2	G	CKN5047-ND	6.03	4.83	3.82	1101M2S3AV2GE2
	SPDT	On-On	0.14	AV2	Q	CKN10169-ND ✔	5.18	4.14	3.28	1101M2S2AV2QE2
	DPDT	On-On	0.2	AV2	B	CKN5055-ND	10.11	8.09	6.41	1201M2S3AV2BE2
						L Series				
5	SPST	On-Off	0.2	02	Q	CKC5106-ND	2.00	1.61	1.27	L101011MS02Q
	SPDT	On-On	0.2	02	Q	CKC5107-ND	2.11	1.69	1.34	L102011MS02Q
	DPDT	On-On	0.2	02	Q	CKC5100-ND	2.48	2.15	1.81	L202011MS02Q
	DPDT	On-On	0.2	02	Q	CKC5108-ND	4.53	3.63	2.87	L202011MS02QE
	DPDT	On-On	0.375	02	Q	CKC5109-ND	3.60	2.88	2.28	L202031MS02Q
	DPDT	On-On	Slot	02	Q	CKC5110-ND	4.84	3.88	3.07	L202121MS02QE
	DP3T	On-On-On	0.2	02	Q	CKC5111-ND	3.60	2.88	2.28	L203011MS02Q
6	DPST	On-Off	0.2	03	Q	CKC5101-ND	2.33	2.02	1.70	L201011SS03Q
	DPDT	On-On	0.2	03	Q	CKN10034-ND ✔	3.39	2.71	2.15	L202011SS03Q
7	DPDT	Off-Mom	0.330	02	Q	CKC5104-ND	5.74	4.60	3.64	L212132MV02Q
	DPDT	On-Mom	0.365	02	Q	CKN10114-ND ✔	6.44	5.16	4.08	L212142MV02Q2
8	SPDT	On-On	0.335	04	Q	CKC5102-ND	2.11	1.69	1.34	L102021ML04Q
	DPDT	On-On	Slot	04	Q	CKC5112-ND	4.53	3.63	2.87	L202121MA04Q
	DPDT	On-On	0.335	04	Q	CKC5103-ND	4.22	3.38	2.68	L202021MA04Q
						S Series				
5	SPDT	On-On	0.335	02	Q	CKC5113-ND	2.44	1.96	1.55	S102031MS02Q
	DPST	On-Off	0.335	02	Q	CKN9891-ND ✔	2.96	2.38	1.88	S201031MS02Q
	DPDT	On-On	0.335	02	Q	CKN9892-ND ✔	4.49	3.60	2.85	S202031MS02QE
	DPDT	On-On	0.335	02	Q	CKC5114-ND	3.16	2.53	2.01	S202031MS02Q
	DPDT	On-On	Slot	02	Q	CKC5115-ND	3.58	2.87	2.27	S202121MS02Q
	DPDT	On-On	0.330	02	Q	CKC5116-ND	3.45	2.76	2.19	S202131MS02Q
6	SPST	On-Off	0.335	03	Q	CKN10054-ND ✔	2.30	1.85	1.46	S101031SS03Q
	SPST	On-Off	0.335	.110 QC	Q	CKN10055-ND ✔	2.30	1.85	1.46	S101031SS07Q
	SPDT	On-Mom	0.335	03	Q	CKN9890-ND ✔	3.19	2.55	2.02	S112032SS03Q
	SPDT	On-On	0.335	03	Q	CKC5118-ND	2.44	1.96	1.55	S102031SS03Q
	DPDT	On-On	0.335	03	Q	CKC5119-ND	3.16	2.53	2.01	S202031SS03Q
	DPDT	On-On	0.335	03	Q	CKC5013-ND	3.35	2.69	2.13	S602031SS03Q
9	DPDT	On-On	Black	.110 QC	Q	CKC5105-ND	3.42	2.74	2.17	S802C21S207Q
	DPDT	On-On	Red	Wire	Q	CKC5012-ND ✔	7.42	5.94	4.71	S802C31S2WCQ
10	DPDT	On-On	0.335	03	Q	CKC5014-ND	3.58	2.87	2.27	S602031TS03Q
						Tiny Slide — TS Series				
11A	SPDT	On-On	0.122	A	B	CKC5120-ND	5.55	4.44	3.52	TS01ABE
	SPDT	On-On	0.122	A	Q	CKC5121-ND	5.55	4.44	3.52	TS01AQE
	SPDT	On-Off-On	0.122	A	B	CKC5124-ND	6.13	4.91	3.88	TS03ABE
11B	SPDT	On-On	0.122	C	B	CKC5122-ND	5.10	4.08	3.23	TS01CBE
	SPDT	On-On	0.122	C	Q	CKC5123-ND	5.10	4.08	3.23	TS01CQE
	SPST	On-Off	0.122	C	B	CKN9924-ND ✔	5.41	4.33	3.43	TS02CBE
	SPDT	On-Off-On	0.122	C	B	CKC5125-ND	5.68	4.55	3.60	TS03CBE
						Ultra Miniature — GS Series				
12	SPDT	On-On	—	C	B	CKN9136-ND	6.89	5.52	4.37	GS01MCBE
	SPST	Off-On	—	C	B	CKN9135-ND	7.54	6.04	4.78	GS02MCBE
13	SPDT	On-On	—	A	B	CKN9130-ND	7.76	6.21	4.92	GS01MABE
	SPST	Off-On	—	A	B	CKN9133-ND	8.22	6.58	5.21	GS02MABE
14	SPDT	On-On	—	SMT	B	CKN9105CT-ND*	7.05	5.65	4.47	GS01MSABE
	SPDT	On-On	—	SMT	B	CKN9105TR-ND†	2539.20/600			GS01MSABE
	SPST	Off-On	—	SMT	B	CKN9106CT-ND*	7.62	6.10	4.83	GS02MSABE
	SPST	Off-On	—	SMT	B	CKN9106TR-ND†	2744.40/600			GS02MSABE

* Cut Tape † Tape and Reel ✔ ***NEW!***

(Continued)

Slide Switches *(Cont.)*

Fig.	Circuit	Options (see diagram) Switching Function	Actuator H (In.)	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
				Snap In — LP Series						
15	SPDT	On-On	Black	03	Q	CKC5015-ND	3.48	2.79	2.21	LP02C21T203DQ
	DPDT	On-On	Black	03	Q	CKC5016-ND	4.88	3.91	3.10	LP22C21T203DQ
	SPDT	On-On	Red	03	Q	CKC5017-ND	3.95	3.16	2.50	LP02C31T203DQ
	DPDT	On-On	Red	03	Q	CKC5018-ND	4.74	3.80	3.01	LP22C31T203DQ
				V Series — 115V/230V Voltage Select						
16	DPDT	On-On	—	C	Q	CKC3001-ND	5.01	4.02	3.18	V80212MS02Q
	DPDT	On-On	—	02	Q	CKC3006-ND	6.24	5.00	3.96	V80212MS02QE
	DPDT	On-On	—	02	Q	CKC3007-ND	4.61	3.70	2.93	V80213MS02Q
	DPDT	On-On	—	02	Q	CKC3008-ND	5.01	4.02	3.18	V80214MS02Q
17	SPST	On-Off	—	.110 QC	Q	CKN9937-ND ✔	3.52	2.82	2.23	V70102SS05Q
	SPST	On-Off	—	.110 QC	Q	CKC3009-ND	3.12	2.50	1.98	V70113SS05Q
	DPDT	On-On	—	.110 QC	Q	CKC3002-ND	5.01	4.02	3.18	V80212SS05Q
	DPDT	On-On	0.29	.110 QC	Q	CKC3010-ND	4.61	3.70	2.93	V80201SS05Q
	DPDT	On-On	—	.110 QC	Q	CKC3011-ND	4.61	3.70	2.93	V80213SS05Q
	DPST	On-On	0.29	.110 QC	Q	CKN9156-ND	3.14	2.72	2.29	V80114SS05Q
	DPDT	On-On	0.29	.110 QC	Q	CKN9158-ND	3.68	3.18	2.68	V80214SS05Q
18	DPDT	On-On	0.29	.110 QC	Q	CKN9157-ND	4.02	3.47	2.93	V80214S205Q
	DPDT	On-On	—	.110 QC	Q	CKC3005-ND	5.48	4.39	3.47	V80212S205Q

Fig.	Circuit	Options (see diagram) Switching Function	Actuator H (In.)	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
19	DPDT	On-On	—	02	Q	CKC3012-ND	5.74	4.60	3.64	V80213MA08Q
	DPDT	On-On	—	C	Q	CKC3004-ND	4.50	3.89	3.28	V80212MA08Q
				ES Series — Fully Sealed Miniature Slide Switches						
20	SPDT	On-On	0.12	SMT	B	CKN1779CT-ND*✔	6.60	5.28	4.18	ES01MSABE
	SPDT	On-On	0.12	SMT	B	CKN1779TR-ND†✔	1187.46/300			ES01MSABE
	SPST	On-Off	0.12	SMT	B	CKN1813CT-ND*	8.28	7.14	5.74	ES02MSABE
	SPST	On-Off	0.12	SMT	B	CKN1813TR-ND†	1375.92/300			ES02MSABE
21	SPDT	On-On	0.12	C	B	CKN1778-ND	6.63	5.31	4.20	ES01MCBE
	SPST	On-Off	0.12	C	B	CKN1812-ND	7.16	5.73	4.54	ES02MCBE
	SPDT	On-Off-On	0.12	C	B	CKN2085-ND	6.70	5.37	4.25	ES03MCBE
	DPDT	On-On	0.12	C	B	CKN2082-ND	8.52	6.82	5.40	ES21MCBE
	DPST	On-Off	0.12	C	B	CKN1815-ND	9.74	7.80	6.17	ES22MCBE
	DPDT	On-Off-On	0.12	C	B	CKN1830-ND	9.11	7.29	5.78	ES23MCBE
22	DPDT	On-On	0.12	C	B	CKN2080-ND	9.29	7.43	5.89	ES21MABE
	DPST	On-Off	0.12	C	B	CKN1814-ND	10.16	8.13	6.44	ES22MABE
	DPDT	On-Off-On	0.12	C	B	CKN1816-ND	9.74	7.80	6.17	ES23MABE
23	SPDT	On-On	0.12	C	B	CKN1777-ND	7.54	6.04	4.78	ES01MAVBE
	SPDT	On-Off-On	0.12	C	B	CKN2084-ND	7.75	6.20	4.91	ES03MAVBE

* Cut Tape † Tape and Reel ✔ ***NEW!***

Miniature Slide Switches

Typical Applications: • Telecommunications products • Computer peripherals • Thermostat select switch • Instrumentations • Test and measurement equipment

Fig. 1

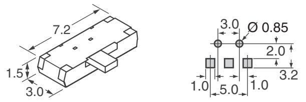

Fig. 2

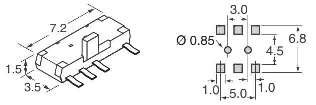

Fig. 3

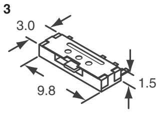

Fig. 4

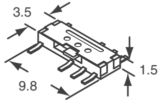

Fig. 5

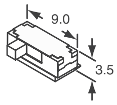

Fig. 6

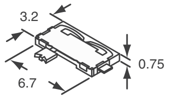

Fig. 7

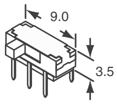

Fig. 8

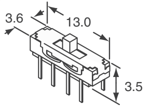

Fig. 9

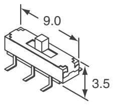

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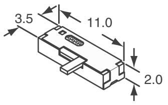

Fig. 11

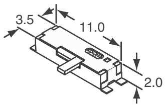

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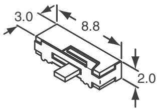

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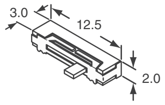

Fig. 14

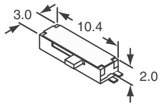

Fig. 15

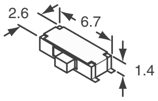

Fig.	Circuit	Switching Function	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	C&K Part No.
				AYZ Series						
1	SPDT	On-On	Horizontal Actuator, Gullwing-lead	401-2012-1-ND	.99	.92	.84	4,000	547.20/M	AYZ0102AGRLC
2	DPDT	On-On	Vertical Actuator, Gullwing-lead	401-2013-1-ND	1.44	1.33	1.22	3,000	797.40/M	AYZ0202AGRLC
3	SP3T	On-On-On	Horizontal Actuator, Gullwing-lead	401-2014-1-ND	1.04	.97	.89	4,000	577.80/M	AYZ0103AGRLC
4	DP3T	On-On-On	Vertical Actuator, Gullwing-lead	401-2015-1-ND	1.44	1.33	1.22	3,000	797.40/M	AYZ0203AGRLC
				JS Series — Sub-Miniature						
5	SPDT	On-On	Horizontal Actuator, Gullwing-lead	401-1999-1-ND	.55	.51	.47	1,000	306.00	JS102011SAQN
6	SPDT	On-On	Horizontal Actuator, Gullwing-lead	401-2005-1-ND	.67	.62	.57	4,000	370.80/M	JS102000SAQN
7	DPDT	On-On	Horizontal Actuator, Thru-hole	401-2000-ND‡	.44	.35	.28	—	—	JS202011AQN
7	DP3T	On-On-On	Horizontal Actuator, Thru-hole	401-2003-ND‡	.51	.41	.33	—	—	JS203011AQN
8	DP3T	On-On-On	Vertical Actuator, Thru-hole	401-2004-ND‡	.51	.41	.33	—	—	JS203011CQN
8	DPDT	On-On	Vertical Actuator, Thru-hole	401-2001-ND‡	.44	.35	.28	—	—	JS202011CQN
9	DPDT	On-On	Vertical Actuator, Gullwing-lead	401-2002-1-ND	.48	.45	.41	1,000	264.60	JS202011SCQN
				JSM Series — Sub-Miniature						
10	SPDT	Mom-On	Horizontal Actuator, Gullwing-lead	401-2007-1-ND	2.54	2.35	2.16	1,800	1407.60/M	JSM08022SAQNR
11	SPDT	On-Mom	Horizontal Actuator, Gullwing-lead	401-2006-1-ND	2.54	2.35	2.16	1,800	1407.60/M	JSM08022SAQNL
12	SPDT	Mom-On	Horizontal Actuator, Gullwing-lead	401-2009-1-ND	2.37	2.19	2.01	1,800	1310.00/M	JSM08011SAQNR
12	SPDT	On-Mom	Horizontal Actuator, Gullwing-lead	401-2008-1-ND	2.37	2.19	2.01	1,800	1310.00/M	JSM08011SAQNL
13	SP3T	Mom-On-On	Horizontal Actuator, Gullwing-lead	401-2010-1-ND	2.37	2.19	2.01	1,800	1310.40/M	JSM07011SAQNL
14	SP3T	Mom-Off-Mom	Horizontal Actuator, Gullwing-lead	401-2011-1-ND	2.45	2.27	2.08	2,300	1357.20/M	JSM05000SAQN
				PCM Series — Ultra Miniature						
15	SPDT	On-On	Horizontal Actuator, Gullwing-lead	401-2016-1-ND	.90	.84	.77	3,500	498.60/M	PCM12SMTR
15	SP3T	On-On-On	Horizontal Actuator, Gullwing-lead	401-2017-1-ND	.95	.88	.81	3,500	523.80/M	PCM13SMTR

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tube

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OS Series Miniature Slide Switches

Typical Applications: • Test and measurement equipment • Computer peripherals and network products • Consumer products

Features: • PC and panel mounting • Shorting or non-shorting contacts

Specifications: • Mechanical and Electrical Life: 10,000 cycles • Contact Resistance: 20mΩ or less • Insulation Resistance: 100mΩ Minimum @ 500VDC • Dielectric Strength: 500VAC for 1 minute • Operating Temperature: -10°C ~ 70°C

Fig. 1

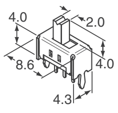

Fig. 2

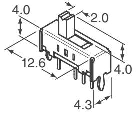

Fig. 3

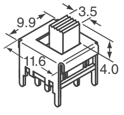

Fig. 4

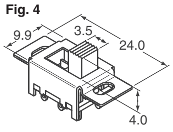

Fig. 5

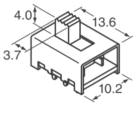

Fig. 6

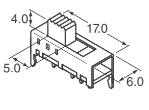

Fig. 7

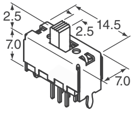

Fig. 8

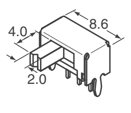

Fig. 9

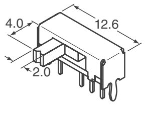

Fig.	Circuit	Switching Function	Contact Rating	Contacts	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	SPDT	On-On	0.1A @ 12VDC	Non-Shorting	CKN9565-ND	.45	.36	.29	OS102011MS2QN1
	SPDT	On-On	0.1A @ 12VDC	Shorting	CKN9542-ND	.45	.36	.29	OS102011MS2QS1
	DPDT	On-On	0.1A @ 12VDC	Non-Shorting	CKN9545-ND	.62	.50	.40	OS202011MS2QN1
	DPDT	On-On	0.1A @ 12VDC	Shorting	CKN9544-ND	.63	.51	.40	OS202011MS2QS1
2	SP3T	On-On-On	0.1A @ 12VDC	Non-Specified	CKN9543-ND	.53	.43	.34	OS103011MS8QP1
	DP3T	On-On-On	0.3A @ 30VDC	Non-Specified	CKN9546-ND	.79	.64	.51	OS203011MS1QP1
3	DPDT	On-On	0.3A @ 30VDC	Non-Shorting	CKN9547-ND	.64	.52	.41	OS202013MT5QN1
	DP3T	On-On-On	0.2A @ 30VDC	Non-Shorting	CKN9551-ND	.63	.51	.40	OS203013MT6QN1
4	DPDT	On-Off-On	0.3A @ 30VDC	Non-Shorting	CKN9548-ND	.76	.61	.49	OS203013MT7QN1
5	DPDT	On-On	0.3A @ 30VDC	Non-Shorting	CKN9549-ND	.76	.61	.49	OS202013MT8QN1
	DP3T	On-On-On	0.3A @ 30VDC	Non-Shorting	CKN9550-ND	.67	.54	.43	OS203013MT8QN1
6	SP3T	On-On-On	0.2A @ 30VDC	Non-Shorting	CKN9552-ND	.77	.62	.49	OS103012MU1QP1
	SP3T	On-On-On	0.2A @ 30VDC	Non-Shorting	CKN9553-ND	.76	.61	.49	OS103012MU2QP1
	DP3T	On-On-On	0.1A @ 30VDC	Non-Specified	CKN9554-ND	.79	.63	.50	OS203012MU5QP1
7	DPDT	On-On	0.1A @ 30VDC	Non-Shorting	CKN9555-ND	.71	.57	.45	OS202011MV4QN1
	DPDT	On-On	0.1A @ 30VDC	Shorting	CKN9556-ND	.71	.58	.46	OS202011MV4QS1
	DP3T	On-On-On	0.1A @ 30VDC	Shorting	CKN9557-ND	.71	.58	.46	OS203011MV9QS1
	DP3T	On-On-On	0.1A @ 30VDC	Non-Shorting	CKN9558-ND	.71	.58	.46	OS203011MV9QN1
8	SPDT	On-On	0.1A @ 12VDC	Non-Shorting	CKN9559-ND	.39	.32	.25	OS102011MA1QN1
	SPDT	On-On	0.1A @ 12VDC	Shorting	CKN9560-ND	.41	.33	.27	OS102011MA1QS1
9	SP3T	On-On-On	0.1A @ 12VDC	Non-Specified	CKN9561-ND	.53	.43	.34	OS103011MA7QP1
	DP3T	On-On-On	0.1A @ 12VDC	Non-Specified	CKN9562-ND	.68	.55	.43	OS203011MA2QP1
	DPDT	On-On	0.1A @ 12VDC	Non-Shorting	CKN9563-ND	.56	.45	.36	OS202011MA0QN1
	DPDT	On-On	0.1A @ 12VDC	Shorting	CKN9564-ND	.56	.45	.36	OS202011MA0QS1

Keylock Switches

Dimensions in Inches (mm)

Fig. 1 — Y Series, 4 Tumbler

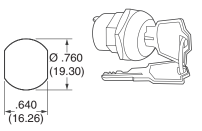

Fig. 2 — Y Series, 6 Tumbler

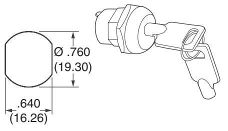

Fig. 3 — H Series

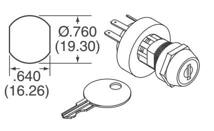

Fig. 4 — YM Series

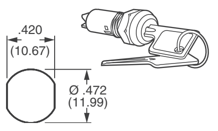

Fig. 5 — P Series

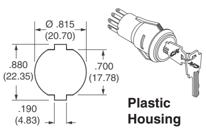

Fig. 6 — P Series, Low Profile

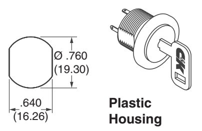

Fig. 7 — YF Series

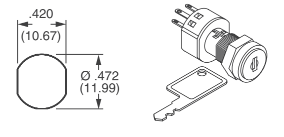

Fig. 8 — BY Series

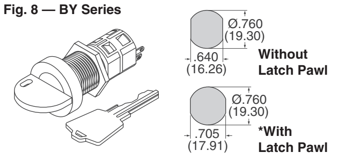

Fig. 9 — PM Series

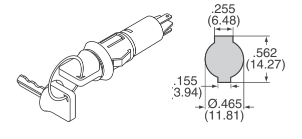

Fig. 10 — PL Series, 5 Tumbler

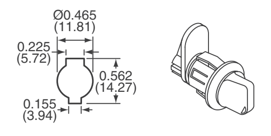

Termination Options

A

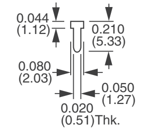

B

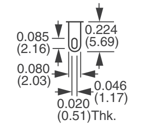

C

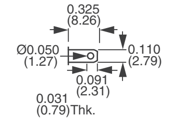

D

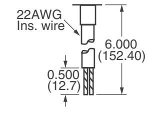

E

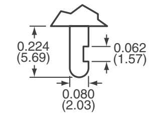

Fig.	No. Poles	Keypull Possible	Switch Type	Amp Rating @125 VAC	Term-ination	Connected Terminals (Position) 1	2	3	4	Digi-Key Part No.	Price Each 1	10	100	C&K Part No.
1	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKN10154-ND ***NEW!***	12.36	10.68	8.99	Y100AA2C203NQE
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8000-ND	11.04	9.54	8.03	Y1011U2C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKN9939-ND ***NEW!***	13.64	11.78	9.92	Y1011U2C203NBE
	SP	1,2	On-On	4	D	8-1	1-3	—	—	CKN10061-ND ***NEW!***	12.93	11.17	9.41	Y1011U2C2WCNQE
	SP	1 only	On-Mom	4	B	8-1	1-2	—	—	CKC1230-ND	14.04	12.13	10.22	Y108122A203NQ
	SP	1 only	On-On-On	4	A	7-1	1-3	6-7	—	CKN10155-ND ***NEW!***	14.38	12.42	10.46	Y141732C202NB
	SP	1,2,3	On-Off-On	4	D	7-1	1-3	6-7	—	CKC8026-ND	14.17	12.24	10.31	Y1417U2C2WCNQE
	SP	1,2,3,4	On-On-On-On	4	B	C-1	C-2	C-3	C-4	CKN10062-ND ***NEW!***	14.82	12.80	10.78	Y1900S2C207NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8007-ND ***NEW!***	16.97	14.66	12.35	Y2011U2V203NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8001-ND	12.82	11.08	9.33	Y2011U2C203NQ
	DP	1,2	On-On	4	A	8-1, 4-5	1-3, 5-7	—	—	CKC8003-ND	12.82	11.08	9.33	Y2011U2C202NQ

† With Latch Pawl

Note: All switches come with hardware and 2 keys.

(Continued)

C&K

Keylock Switches *(Cont.)*

Fig.	No. Poles	Keypull Possible	Switch Type	Amp Rating @125 VAC	Term-ination	Connected Terminals (Position) 1	2	3	4	Digi-Key Part No.	Price Each 1	10	100	C&K Part No.
1	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8036-ND	11.74	10.14	8.54	Y100AA2C203NQ
	SP	1,2,3,4	On-On-On-On	4	B	8-1	1-2	2-3	3-4	CKC8037-ND	13.21	11.41	9.61	Y100AB2C203NQ
	SP	1 only	On-On	4	E	8-1	1-3	—	—	CKC8038-ND	11.04	9.54	8.03	Y101132C201NQ
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8039-ND	11.04	9.54	8.03	Y101132C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8042-ND	12.31	10.63	8.96	Y1011U2R203NQ
	DP	1 only	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8043-ND	13.50	11.66	9.82	Y200822C203NQ
	DP	1,2,3	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8044-ND	13.50	11.66	9.82	Y200AA2C203NQ
	DP	1 only	On-On	4	E	8-1,4-5	1-3, 5-7	—	—	CKC8045-ND	12.82	11.08	9.33	Y201132C201NQ
	DP	1 only	On-On	4	B	8-1,4-5	1-3, 5-7	—	—	CKC8046-ND	12.82	11.08	9.33	Y201132C203NQ
	DP	1 only	On-Mom	4	B	8-1, 4-5	1-2, 5-6	—	—	CKC1231-ND	14.96	12.93	10.89	Y208122A203NQ
2	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8040-ND	15.10	13.05	10.99	Y101132V203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8006-ND	15.10	13.05	10.99	Y1011U2V203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8047-ND	16.97	14.66	12.35	Y201132V203NQ
3	SP	1,2,3	On-On-On	12	C	7-8	8-1	6-7	—	CKN10111-ND ***NEW!***	15.93	13.76	11.59	H100AA2F205NQ
	SP	1,2	On-On	12	C	7-8	8-2	—	—	CKC8004-ND	14.82	12.80	10.78	H1011U2F205NQ
	SP	1,2	On-On	12	C	7-8	8-2	—	—	CKN10112-ND ***NEW!***	17.05	14.73	12.40	H1011U2F805NQ
	DP	1,2,3	On-On-On	12	C	7-8, 3-4	8-1, 4-5	6-7, 2-3	—	CKN10113-ND ***NEW!***	18.29	15.80	13.31	H200AA2F205NQ
	DP	1,2	On-On	12	C	7-8, 3-4	8-2, 4-6	—	—	CKC8005-ND	12.31	10.63	8.96	H2011U2F205NQ
4	SP	1,2	On-Off	4	B	—	1-2	—	—	CKC8008-ND	12.33	10.65	8.97	YM061U2C205NQ
	SP	1,2	On-Off	4	D	—	1-2	—	—	CKC8009-ND	13.78	11.91	10.03	YM061U2C2WCNQ
	SP	1 only	On-Off	4	B	—	1-2	—	—	CKC8010-ND	12.33	10.65	8.97	YM06132C205NQ
	SP	1 only	On-Off	4	D	—	1-2	—	—	CKC8011-ND	13.78	11.91	10.03	YM06132C2WCNQ
5	SP	1 only	On-On	4	B	8-1,	1-3	—	—	CKC8012-ND	13.17	11.38	9.59	P10113TCM03Q22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8014-ND	13.17	11.38	9.59	P1011UTCM03Q22
	SP	1 only	On-On	4	D	8-1	1-3	—	—	CKN10050-ND ***NEW!***	15.39	13.30	11.20	P101132CMWCG2
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8013-ND	15.17	13.11	11.04	P20113TCM03Q22
6	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8016-ND	5.78	4.99	4.21	P1011U2WM03NQ2
	SP	1,2	On-On	4	D	8-1	1-3	—	—	CKN9885-ND ***NEW!***	7.25	6.27	5.28	P1011U3WMWCNQE2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8018-ND	5.78	4.99	4.21	P101132WM03NQ2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8033-ND	5.49	4.75	4.00	P101133WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8017-ND	6.48	5.60	4.72	P2011U2WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8034-ND	6.37	5.51	4.64	P2011U33WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8035-ND	6.19	5.35	4.51	P2011U3WM03NQ2
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8019-ND	6.66	5.75	4.85	P201132WM03NQ2
7	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC1234-ND	11.66	10.07	8.48	YF01132C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC1236-ND	11.88	10.26	8.64	YF011U2C203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC1235-ND	12.77	11.04	9.29	YF21132C203NQ
8	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8023-ND	13.42	11.59	9.76	BY011UJC03NQ22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8024-ND†	14.43	12.47	10.50	BY011UJC03LQ22
	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8025-ND†	14.95	12.92	10.88	BY01AFJC03LQ22
9	SP	1 only	Off-On	4	B	1-2	—	—	—	CKC8021-ND	15.67	13.54	11.40	PM0613EBM05KQ22
	SP	1,2	On-Off	4	B	1-2	—	—	—	CKC8022-ND	15.98	13.80	11.62	PM061UEBM05KQ22
10	5 Tumbler Miniature Camlock with 90° Index, 2 positions									CKC8048-ND	6.42	5.55	4.68	PL001UEBMA1K22
										Accessories				
—	Replacement Key for Y Series 4 Tumbler A126 Code, Nylon Molded Head									CKC8028-ND	1.87	1.62	1.36	115140126
	Replacement Key for YM Series 4 Tumbler 0029 Code									401-2021-ND	2.59	2.08	1.65	960B10029
	Replacement Key for P Series Snap-In Version									CKC8029-ND	3.11	2.69	2.26	11599112602
	Replacement Key for P Series Low Profile									CKN9447-ND	1.28	1.11	.93	115900429
	Replacement Key for Series 6 Tumbler AAAA Code									CKC8027-ND	3.52	3.04	2.56	1110801
	Replacement Clip for BY, Y and H Series									CKN10088-ND ***NEW!***	.79	.68	.58	906B00000
	Hex Nut for Y Series, 3/4-24UNS .125" Thick									CKN10254-ND ***NEW!***	.95	.76	.61	937C00000
	Hex Nut for YM Series									CKN9541-ND	.63	.55	.46	1790901A47

† With Latch Pawl **Note:** All switches come with hardware and 2 keys.

Honeywell
Sensing and Control

HOBBS Key and Push/Pull Switches

The Hobbs key switch is a custom-engineered, environmentally sealed, sliding contact switch. The stainless steel keyhole shroud and the keyhole dust shutter contribute to the durability of the key tumbler assembly while o-rings protect the contact and rotor assembly from moisture and contamination. **Specifications:** • Electrical Rating: 20A @ 12VDC, 8A @ 24VDC (10A @ 24VDC: 084830 07), 4A @ 48VDC • Cycle Life at Design Electrical Load: 25,000 Cycles

The Hobbs push/pull switch is a robust, environmentally sealed, sliding contact switch incorporating two circuits with multiple combinations. The sliding contacts provide positive contact closure and opening when the switch knob is operated. **Specifications:** • Electrical Rating: 20A @ 12VDC ~ 14VDC, 10A @ 24VDC • Cycle Life at Design Electrical Load: 25,000 Cycles

Dimensions in Inches (mm)

Fig. 1

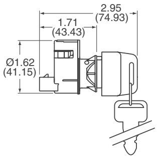

Fig. 2

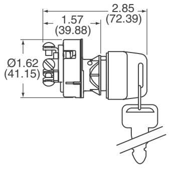

Fig. 3

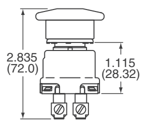

Fig.	Circuitry	Switch Function	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	10	25	50	Honeywell Part No.
				Key Switches					
1	—	On-Off	-40 ~ 85	480-2086-ND	26.61	21.17	19.84	18.98	084825 02
	—	Off-On-Start	-40 ~ 85	480-2087-ND	29.14	23.18	21.72	20.78	084826 01
2	—	Off-On	-40 ~ 85	480-2083-ND	27.75	22.08	20.69	19.79	084828 07
	—	Off-On-Start	-40 ~ 85	480-2084-ND	29.49	23.46	21.98	21.03	084829 07
	—	On-Off-On	-40 ~ 85	700-1002-ND	28.10	22.35	20.94	20.04	084830 07
				Push/Pull Switches					
3	2 NO	—	-40 ~ 100	480-2081-ND	25.11	19.98	18.72	17.91	087941 08
	1 NO, 1 NC	—	-40 ~ 100	480-2082-ND	24.06	19.14	17.93	17.16	087943 08

E•SWITCH®

Keylock Switches KO Series

Materials: • Housing and Cylinder: Die cast zinc alloy • Mounting nut and two keys

Rubber Cover

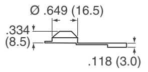

Metal Dust Cap

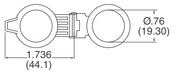

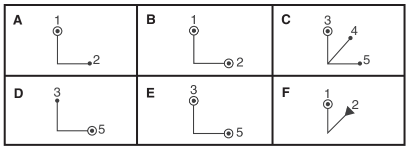

● = Detent Position ⊙ = Keypull Possible ▲ = Momentary

Series	Ratings	Insulation Resistance
KO103	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
KO106	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
K0129	4A @ 125VAC; 2A @ 250VAC	200MΩ min.
KO130	4A @ 125VAC; 2A @ 250VAC	200MΩ min.

Fig. 1

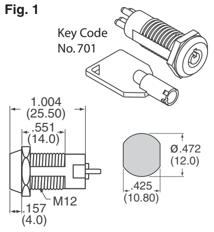

Fig. 2

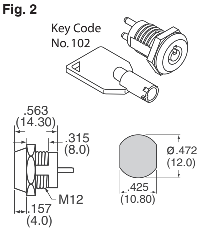

Fig. 3

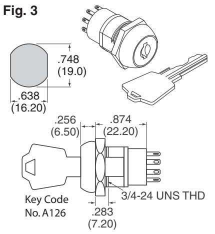

Fig. 4

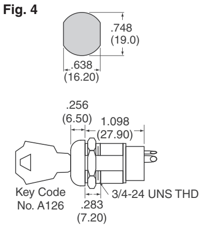

Fig.	Lock Configuration	No. of Poles	Key Pull Possible	Switch Type	Amp Rating @ 125 VAC	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1A	90° Indexing	SPDT	1	On-On	1	Solder	EG2623-ND	7.17	6.40	5.52	KO103C701
1B	90° Indexing	SPDT	1 and 2	On-On	1	Solder	EG2624-ND	7.10	6.34	5.47	KO103D701
2B	90° Indexing	SPST	1 and 2	Off-On	1	Solder	EG2625-ND	3.45	3.08	2.66	KO106A102
3C	45°-45° Indexing	SP-3 pos.	3	On-On-On	4	Eyelet	EG2626-ND	13.46	12.01	10.35	KO130AA126
3C	45°-45° Indexing	DP-3 pos.	3	On-On-On	4	Eyelet	EG2627-ND	14.27	12.74	10.98	KO130BA126
3D	90° Indexing	DPDT	5	On-On	4	Eyelet	EG2628-ND	13.46	12.01	10.35	KO130QA126
3E	90° Indexing	SPDT	3 and 5	On-On	4	Eyelet	EG2629-ND	13.46	12.01	10.35	KO130RA126
4F	45° Indexing	SPDT	1	On-Mom	4	Eyelet	EG2630-ND	12.82	11.44	9.86	KO129E
				Covers							
Rubber Cover for KO103 Series							EG2631-ND	.97	.87	.75	KOC1
Metal Dust Cap for KO130 Series							EG2632-ND	4.60	4.11	3.54	KOM4
				Replacement Keys							
Replacement Key, Keycode 701							EG4405-ND	1.22	1.09	.94	KOKEY701
Replacement Key, Keycode A126							EG4406-ND	1.22	1.09	.94	KOKEYA126
Replacement Key, Keycode 102							EG4407-ND	1.22	1.09	.94	KOKEY102

NKK SWITCHES

Keylock Switches

Features: • **SK series:** Short behind panel dimension - only 1.063"(27.0mm); Detent mechanism gives crisp, positive action for accurate switch setting • **CK series** High insulating material withstands over 15 kilovolts of electrostatic discharge, thus providing antistatic feature. Rugged, die cast housing designed for higher security requirements **Specifications:** • **Power Voltage:** 3A @ 250V AC • **Operating Temperature:** -25°C ~ 70°C • **Mechanical Life:** 30,000 cycles minimum • **Electrical Life:** 10,000 cycles minimum **Materials:** • **Housing/Bushing:** Zinc alloy with chrome plating for CKL series; Glass fiber reinforced PBT for CKM series

Fig. 1

Dimensions in (mm) Inch

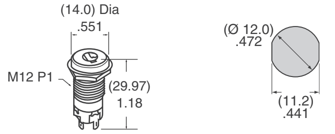

• Low Security • 2 Keys Supplied (All Same Keycode)

Fig. 2

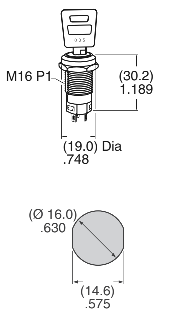

• 1 Key Supplied

Fig. 3

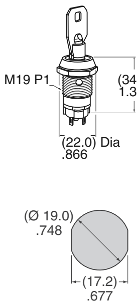

• 1 Key Supplied

Fig.	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Positions	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
			12mm Miniature Low Security (All same Keycodes)						
1	On	None	On	1, 3	360-1935-ND	13.34	9.67	8.60	SK12AAW01-RO
	On	None	On	1	360-1936-ND	13.34	9.67	8.60	SK12BAW01-RO
	On	Off	On	1, 2, 3	360-1937-ND	13.75	10.00	9.07	SK13DAW01-RO
	On	Off	On	2	360-1938-ND	13.75	10.00	9.07	SK13EAW01-RO
Replacement Key for SK12 Switches, Marked 1201					360-1010-ND	2.73	1.68	1.50	AT4081
Replacement Key for SK13 Switches, Marked 1301					360-2289-ND	2.73	1.68	1.50	AT4082
			16mm High Security Antistatic - Flat Key Version (10 Keycodes)						
2	On	None	On	1, 3	360-1447-ND	13.12	9.51	8.46	CKM12AFW01
	On	None	On	1	360-1448-ND	13.12	9.51	8.46	CKM12BFW01
	On	Off	On	2	360-1449-ND	14.17	10.31	9.34	CKM13EFW01
			16mm High Security Antistatic - Tubular Key Version (25 Keycodes)						
2	On	None	On	1, 3	360-1450-ND	13.12	9.51	8.46	CKM12ATW01
	On	None	On	1	360-1451-ND	13.12	9.51	8.46	CKM12BTW01
	On	Off	On	2	360-1452-ND	14.17	10.31	9.34	CKM13ETW01
			19mm High Security - Flat Key Version (25 Keycodes)						
3	On	None	On	1, 3	360-1453-ND	13.32	9.65	8.59	CKL12AFW01
	On	None	On	1	360-1454-ND	13.32	9.65	8.59	CKL12BFW01
	On	Off	On	2	360-1455-ND	14.37	10.45	9.47	CKL13EFW01
			19mm High Security - Tubular Key Version (50 Keycodes)						
3	On	None	On	1, 3	360-1456-ND	13.32	9.65	8.59	CKL12ATW01
	On	None	On	1	360-1457-ND	13.32	9.65	8.59	CKL12BTW01
	On	Off	On	2	360-1458-ND	14.37	10.45	9.47	CKL13ETW01

Tyco Electronics
Authorized Distributor

Keylock Switchlocks

Note: All Keylocks are supplied with 2 brass keys on a ring.

Fig. 1

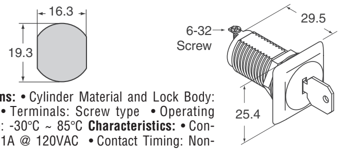

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 2

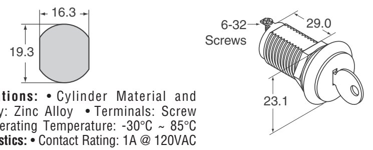

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 3

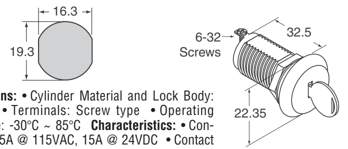

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 5A @ 115VAC, 15A @ 24VDC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 20,000 Cycles

Fig.	Lock Configuration	Poles	Keypull Possible	Switch Type	Current	Terminal	Digi-Key Part No.	Price Each 1	10	25	50	Tyco Electronics Part No.
1	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1003-ND	24.80	22.68	21.26	20.55	2SKF132AEL01
	90° Indexing	SPST	1 only	On-Off	1A	6-32 Screw	450-1005-ND	25.34	23.17	21.72	21.00	2SKF131AEL01
	90° Indexing	SPST	1 only	Off-Mom	1A	6-32 Screw	450-1008-ND	28.72	26.26	24.62	23.80	2SKF231AEL01
2	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1004-ND	18.08	16.53	15.50	14.98	2SWK132AL101
	90° Indexing	SPST	1 only	On-Off	1A	6-32 Screw	450-1006-ND	22.05	20.16	18.90	18.27	2SWK131AL101
	90° Indexing	SPST	1 only	Off-Mom	1A	6-32 Screw	450-1007-ND	23.63	21.60	20.25	19.58	2SWK231AL101
3	90° Indexing	SPST	1, 2	On-Off	5A	6-32 Screw	450-1011-ND	29.54	27.01	25.32	24.48	SWK12F315
	90° Indexing	SPST	2 only	On-Off	5A	6-32 Screw	450-1010-ND	29.51	26.98	25.29	24.45	SWK121F315
	90° Indexing	SPST	1 only	On-Off	5A	6-32 Screw	450-1009-ND	30.19	27.60	25.88	25.02	SWK123F315

OMRON Basic Type Snap Switches

V Series — Standard Series
VX Series — Low Current STD Series

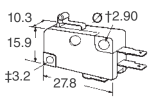

† 3.1 for V-16G
‡ 3.4 for V-16G

D3V Series — Low Cost Series

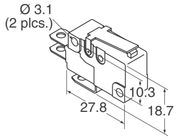

D2VW Series — Watertight Series; IP67

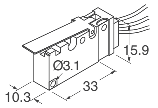

SS Series — Standard Series
SS-P Series — Low Cost Series

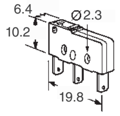

D2SW/D2JW Series — Watertight; IP67

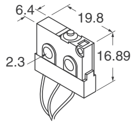

D2SW-P Series — Low Cost, Watertight; IP67

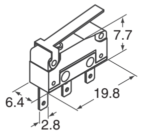

Fig. 1

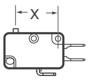

Pin Plunger

Fig. 2

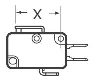

Short Lever

Fig. 3

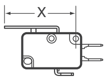

Long Lever

Fig. 4

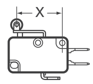

Short Roller Lever

Fig. 5

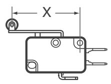

Long Roller Lever

Fig. 6

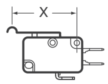

Simulated Roller Lever

Fig. 7

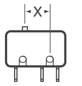

Pin Plunger

Fig. 8

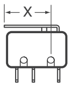

Lever

Fig. 9

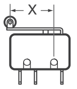

Roller Lever

Fig. 10

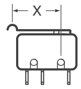

Simulated Roller Lever

V/VX Series: **Features:** • Operating Frequency: Mechanical: 600 operations per minute; Electrical: 60 operations per minute • Contact Resistance: V10: 30mΩ maximum; V15: 15mΩ maximum • Ambient Operating Temperature: -25°C ~ 80°C • Humidity: 85% RH maximum • Service Life: Mechanical: 50,000,000 operations minimum; Electrical: V10: 300,000 operations minimum; V15: 100,000 operations minimum

D3V Series: **Features:** • Reliable and safe basic switch • External lever • Environment friendly with beryllium free contacts • Low cost version of V Series

Watertight D2VW/D2FW Miniature Basic Switch: **Features:** • High-quality, watertight, high-precision miniature basic switch — meets IP67 requirements • Monoblock construction assures high sealing capability and is ideal for dusty places or where water is sprayed • This series internal mechanism assures high operating-position accuracy (±0.4mm) and long life (Mechanical: 10 million operations) • Wide operating temperature range of -40°C ~ 85°C is ideal for any operating environment • General-load (5A @ 250VAC) and micro-load (.1A @ 125VAC) available

SS/SS-P Series: **Features:** • Economical, subminiature basic switch offers long mechanical service life (SS-1 and SS-5 Series: 30 million operations minimum; SS-10 Series: 10 million operations minimum; SS-P Series: 1 million operations minimum) • Wide switching capacity range from micro-voltage/ current loads (1mA @ 5VDC) to high-capacity loads (10.1A @ 250VAC) **Characteristics:** • Operating Frequency: Mechanical: 400 operations per minute; Electrical: 30 operations per minute • Ambient Operating Temperature: -25°C ~ 85°C • Humidity: 85% RH maximum

Watertight D2SW Miniature Basic Switch: **Features:** • High-quality, watertight miniature basic switch — meets IP67 requirements • A wide operating temperature range of -40°C ~ 85°C is ideal for any operating environment • Ideal for the automobile, agricultural machinery, automatic vending machine, refrigerator, ice-manufacturing, bath equipment, hot-water supply, air conditioner, and factory machine industries **Characteristics:** • Operating Frequency: Mechanical: 300 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 70mΩ maximum • Life Expectancy: Mechanical: 5,000,000 operations minimum; Electrical: 200,000 operations minimum • Ambient Operating Humidity: 95% maximum • Enclosure Rating: Reference to IP67

Watertight D2SW-P Series: **Characteristics:** • Operating Temperature Range: -20°C ~ 70°C • Life Expectancy: Mechanical: 1,000,000 operations minimum • 2A @ 250VAC • IP67 Sealed

D2F Series: **Features:** • Super compact; ideal for PCB mounting • Long life span assured by high-precision dual spring reverse-action mechanism • Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom • Ideal for a wide variety of applications, from household appliances and office equipment to audio equipment and communications equipment

D3C Series: **Features:** • Built-in slide mechanism selects shorting or non-shorting switch timing • 3mm long stroke • PCB mount switch with 100mA capacity • Ideal for household appliances, sound equipment, office equipment, communications equipment, etc. • Compact size (8W x 6H x 4.2D mm) **Characteristics:** • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 50mΩ maximum • Ambient Operating Temperature: -20°C ~ 80°C • Operating Humidity: 65% maximum at 5°C ~ 35°C • Service Life: 50,000 operations minimum at the rated switch frequency

Watertight D2HW Series: **Features:** • Smallest sealed snap action switch • Fully sealed construction • Lead free construction • Conforms to IP67 (wire leads) and IP50 (terminal type) • Long stroke, even without levers for reliable On-Off action

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each			Omron Part No.
							1	25	50	
V Series										
1	SPDT	10	.187 QC (4.75)	20.2	100gf	SW126-ND	2.30	2.08	1.85	V-10G-1C24-K
	SPDT	10	.187 QC (4.75)	20.2	200gf	SW1085-ND	2.37	2.14	1.90	V-10G-1C25K
	SPDT	15	Solder Terminal	20.2	200gf	SW1061-ND	2.37	2.14	1.90	V-15G-1A5-K
	SPDT	15	.187 QC (4.75)	20.2	200gf	SW129-ND	2.30	2.08	1.85	V-15G-1C25-K
	SPDT	15	.187 QC (4.75)	20.2	400gf	SW130-ND	2.37	2.14	1.90	V-15G-1C26-K
	SPDT	15	.250 QC (6.35)	20.2	200gf	SW874-ND	2.37	2.14	1.90	V-15G-1C5-K
	SPST-NO	16	.187 QC (4.75)	20.2	200gf	SW1071-ND	2.49	2.24	1.99	V-16G-3C25
	SPST-NO	16	.187 QC (4.75)	20.2	400gf	SW1072-ND	2.66	2.40	2.13	V-16G-3C26
2	SPDT	15	.187 QC (4.75)	22.1	200gf	SW1086-ND	2.41	2.17	1.93	V-15G1-1C25-K
3	SPDT	10	.187 QC (4.75)	38.35	125gf	SW127-ND	2.41	2.17	1.93	V-10G2-1C25-K
	SPDT	15	.187 QC (4.75)	38.35	125gf	SW875-ND	2.34	2.11	1.88	V-15G2-1C25-K
	SPDT	15	.187 QC (4.75)	38.35	250gf	SW132-ND	2.34	2.11	1.88	V-15G2-1C26-K
	SPDT	10	.187 QC (4.75)	59.4	70gf	SW1068-ND	2.46	2.22	1.97	V-10G3-1C24-K
	SPDT	15	.187 QC (4.75)	59.4	35gf	Z2252-ND	2.63	2.37	2.11	V-15G3-1C24-K
	SPDT	15	.187 QC (4.75)	59.4	70gf	SW133-ND	2.63	2.37	2.11	V-15G3-1C25-K
	SPDT	15	.187 QC (4.75)	59.4	130gf	SW134-ND	2.63	2.37	2.11	V-15G3-1C26-K
	SPDT	15	.187 QC (4.75)	59.4	250gf	SW1088-ND ***NEW!***	3.10	2.79	2.48	V-152C26K-F3
4	SPDT	10	.187 QC (4.75)	20.1	120gf	SW1069-ND	2.89	2.61	2.32	V-10G5-1C24-K
	SPDT	10	.187 QC (4.75)	20.1	240gf	SW128-ND	2.81	2.53	2.25	V-10G5-1C25-K
	SPDT	15	Screw Terminal	20.1	240gf	SW1062-ND	4.92	4.43	3.94	V-15G5-1B5-K
	SPDT	15	.187 QC (4.75)	20.1	240gf	SW1070-ND	2.81	2.53	2.25	V-15G5-1C25-K
	SPDT	15	.187 QC (4.75)	20.1	480gf	SW136-ND	2.89	2.61	2.32	V-15G5-1C26-K
5	SPDT	15	.187 QC (4.75)	34.0	125gf	SW1063-ND	2.81	2.53	2.25	V-15G6-1C25-K
	SPDT	15	.187 QC (4.75)	34.0	250gf	SW151-ND	2.89	2.61	2.32	V-15G6-1C26-K
6	SPDT	15	.187 QC (4.75)	32.6	125gf	SW135-ND	2.48	2.23	1.99	V-15G4-1C25-K
VX Series										
1	SPDT	5	.187 QC (4.75)	20.2	25gf	SW992-ND	3.49	3.15	2.80	VX-5-1C22
	SPDT	5	.187 QC (4.75)	20.2	50gf	SW993-ND	3.49	3.15	2.80	VX-5-1C23
3	SPDT	0.1	.187 QC (4.75)	35.6	30gf	SW987-ND	4.30	3.87	3.44	VX-012-1A3
	SPDT	5	.187 QC (4.75)	35.6	30gf	SW994-ND	3.83	3.45	3.06	VX-52-1A3
	SPDT	0.1	.187 QC (4.75)	59.4	20gf	SW988-ND	4.55	4.10	3.65	VX-013-1C23
	SPDT	5	.187 QC (4.75)	59.4	20gf	SW996-ND	4.06	3.66	3.25	VX-53-1A3
	SPDT	5	.187 QC (4.75)	59.4	20gf	SW997-ND	4.06	3.66	3.25	VX-53-1C23
4	SPDT	0.1	.187 QC (4.75)	20.1	60gf	SW876-ND	4.80	4.33	3.85	VX-015-1C23
5	SPDT	5	.187 QC (4.75)	34.0	30gf	SW1002-ND	4.40	3.96	3.52	VX-56-1A3
6	SPDT	5	.187 QC (4.75)	32.6	30gf	SW998-ND	3.90	3.51	3.12	VX-54-1A3
D3V Series										
1	SPDT	11	.187 QC (4.75)	20.2	200gf	SW707-ND	1.95	1.76	1.57	D3V11G1C25K
	SPDT	16	.187 QC (4.75)	20.2	200gf	SW700-ND	1.95	1.76	1.57	D3V16G1C25K
3	SPDT	11	.187 QC (4.75)	35.6	200gf	SW708-ND	2.24	2.02	1.80	D3V11G21C25K
	SPDT	11	.187 QC (4.75)	35.6	200gf	SW709-ND	2.21	1.99	1.77	D3V11G2M1C25K
	SPDT	16	.187 QC (4.75)	35.6	200gf	SW701-ND	2.24	2.02	1.80	D3V16G21C25K
5	SPDT	11	.187 QC (4.75)	33.0	200gf	SW712-ND	2.71	2.44	2.17	D3V11G61C25K
	SPDT	16	.187 QC (4.75)	33.0	200gf	SW705-ND	2.71	2.44	2.17	D3V16G61C25K
	SPDT	11	.187 QC (4.75)	34.0	200gf	SW713-ND	2.49	2.25	2.00	D3V11G6M1C25K
	SPDT	16	.187 QC (4.75)	34.0	200gf	SW706-ND	2.49	2.25	2.00	D3V16G6M1C25K
6	SPDT	11	.187 QC (4.75)	32.5	200gf	SW710-ND	2.24	2.02	1.80	D3V11G41C25K
	SPDT	16	.187 QC (4.75)	32.5	200gf	SW703-ND	2.24	2.02	1.80	D3V16G41C25K
	SPDT	11	.187 QC (4.75)	32.6	200gf	SW711-ND	2.21	1.99	1.77	D3V11G4M1C25K
	SPDT	16	.187 QC (4.75)	32.6	200gf	SW704-ND	2.21	1.99	1.77	D3V16G4M1C25K
Watertight IP67 D2VW Series										
1	SPDT	0.1	.187 QC (4.75)	20.2	200gf	SW427-ND	4.56	4.11	3.65	D2VW-01-1HS
	SPDT	0.1	12 Wires (304.8)	20.2	200gf	SW428-ND	9.40	8.46	7.52	D2VW-01-1MS
	SPDT	5	.187 QC (4.75)	20.2	200gf	SW433-ND	4.39	3.95	3.51	D2VW-5-1HS
	SPDT	5	12 Wires (304.8)	20.2	200gf	SW434-ND	7.25	6.53	5.80	D2VW-5-1MS
2	SPDT	5	.187 QC (4.75)	24.3	200gf	SW1096-ND ***NEW!***	4.54	4.09	3.64	D2VW-5L1A-1HS
3	SPDT	5	.187 QC (4.75)	59.4	60gf	SW1097-ND ***NEW!***	4.58	4.13	3.67	D2VW-5L1B-1HS
	SPST-NO	5	.187 QC (4.75)	59.4	60gf	SW1101-ND ***NEW!***	4.41	3.97	3.53	D2VW-5L1B-3HS
	SPDT	0.1	.187 QC (4.75)	59.4	60gf	SW863-ND	5.49	4.95	4.40	D2VW-01L1B-1HS
	SPST-NO	5	.187 QC (4.75)	35.6	120gf	SW1099-ND ***NEW!***	4.69	4.22	3.75	D2VW-5L1-3HS
	SPDT	0.1	.187 QC (4.75)	35.6	120gf	SW429-ND	5.49	4.95	4.40	D2VW-01L1-1HS
	SPDT	0.1	12 Wires (304.8)	35.6	120gf	SW430-ND	9.85	8.87	7.88	D2VW-01L1-1MS
3	SPDT	5	.187 QC (4.75)	35.6	120gf	SW435-ND	4.58	4.13	3.67	D2VW-5L1-1HS
	SPDT	5	12 Wires (304.8)	35.6	120gf	SW436-ND	7.06	6.36	5.65	D2VW-5L1-1MS
4	SPDT	0.1	.187 QC (4.75)	24.3	230gf	SW864-ND	6.61	5.95	5.29	D2VW-01L2A-1HS
	SPDT	5	12 Wires (304.8)	24.3	230gf	SW1066-ND	7.51	6.76	6.01	D2VW-5L2A-1MS
5	SPDT	0.1	.187 QC (4.75)	34.0	120gf	SW431-ND	7.33	6.60	5.87	D2VW-01L2-1HS
	SPDT	0.1	12 Wires (304.8)	34.0	120gf	SW432-ND	9.57	8.62	7.66	D2VW-01L2-1MS
	SPDT	5	.187 QC (4.75)	34.0	120gf	SW437-ND	4.85	4.37	3.89	D2VW-5L2-1HS
	SPDT	5	12 Wires (304.8)	34.0	120gf	SW438-ND	7.56	6.81	6.05	D2VW-5L2-1MS
6	SPDT	5	.187 QC (4.75)	32.6	120gf	SW1058-ND	4.54	4.09	3.64	D2VW-5L3-1HS
	SPST-NO	5	.187 QC (4.75)	32.6	120gf	SW1100-ND ***NEW!***	5.74	5.17	4.60	D2VW-5L3-3HS
SS Miniature Series										
7	SPDT	5	Solder Terminal	7.5	50gf	SW870-ND	1.56	1.40	1.25	SS-5-F
	SPDT	5	Solder Terminal	7.5	150gf	SW868-ND	1.36	1.23	1.09	SS-5
	SPDT	5	Right Angle PCB	7.5	150gf	SW869-ND	1.72	1.55	1.38	SS-5D2
	SPDT	5	.110 QC (2.79)	7.5	150gf	SW141-ND	1.74	1.57	1.40	SS-5T
	SPDT	5	.110 QC (2.79)	7.5	50gf	SW142-ND	1.59	1.43	1.28	SS-5FT
	SPDT	5	PC Mount	7.5	150gf	SW241-ND	1.59	1.43	1.28	SS-5D
	SPDT	10	Solder Terminal	7.5	150gf	SW1060-ND	1.83	1.65	1.47	SS-10
	SPDT	10	.110 QC (2.79)	7.5	150gf	SW245-ND	2.80	2.52	2.24	SS-10T
	SPDT Gold	0.1	Solder Terminal	7.5	150gf	SW1059-ND	2.48	2.23	1.99	SS-01
	SPDT Gold	0.1	.110 QC (2.79)	7.5	50gf	SW138-ND	2.67	2.41	2.14	SS-01FT
	SPDT Gold	0.1	PC Mount	7.5	150gf	SW155-ND	2.60	2.34	2.08	SS-01D
8	SPDT	5	Solder Terminal	14.5	16gf	SW1007-ND	1.67	1.51	1.34	SS-5GL-F
	SPDT	5	.110 QC (2.79)	14.5	50gf	SW143-ND	1.59	1.43	1.28	SS-5GLT
	SPDT	5	PC Mount	14.5	50gf	SW242-ND	1.92	1.73	1.54	SS-5GLD
	SPDT	10	.110 QC (2.79)	14.5	50gf	SW246-ND	2.55	2.30	2.04	SS-10GLT
	SPDT Gold	0.1	Solder Terminal	14.5	50gf	SW1067-ND	2.67	2.41	2.14	SS-01GL
	SPDT Gold	0.1	.110 QC (2.79)	14.5	50gf	SW139-ND	2.98	2.69	2.39	SS-01GLT
	SPDT Gold	0.1	PC Mount	14.5	50gf	SW239-ND	2.58	2.33	2.07	SS-01GLD
9	SPDT	5	.110 QC (2.79)	14.5	50gf	SW873-ND	2.22	2.00	1.78	SS-5GL2T
	SPDT	5	Solder Terminal	14.5	50gf	SW156-ND	1.88	1.70	1.51	SS-5GL2
	SPDT	5	PC Mount	14.5	50gf	SW244-ND	2.22	2.00	1.78	SS-5GL2D
	SPDT	10	.110 QC (2.79)	14.5	50gf	SW248-ND	2.86	2.58	2.29	SS-10GL2T
	SPDT Gold	0.1	PC Mount	14.5	50gf	SW343-ND	3.10	2.80	2.49	SS-01GL2D
	SPDT	0.1	Solder Terminal	14.5	8gf	SW1094-ND ***NEW!***	3.04	2.74	2.44	SS-01GL2-E
	SPDT Gold	0.1	PC Mount	14.5	16gf	SW866-ND	3.10	2.80	2.49	SS-01GL2-FD
10	SPDT	5	.110 QC (2.79)	15.8	50gf	SW144-ND	1.53	1.38	1.23	SS-5GL13T
	SPDT	5	Solder Terminal	15.8	50gf	SW871-ND	1.56	1.40	1.25	SS-5GL13
	SPDT	5	PC Mount	15.8	50gf	SW243-ND	1.98	1.78	1.59	SS-5GL13D
	SPDT	10	.110 QC (2.79)	15.8	50gf	SW247-ND	2.58	2.33	2.07	SS-10GL13T
	SPDT Gold	0.1	PC Mount	15.8	50gf	SW240-ND	2.58	2.33	2.07	SS-01GL13D
	SPDT Gold	0.1	Solder Terminal	15.8	50gf	SW865-ND	2.67	2.41	2.14	SS-01GL13
Low Cost SS-P Subminiature Series										
7	SPDT	3	Solder Terminal	7.55	150gf	SW763-ND	.78	.71	.63	SS-3GP
	SPDT	3	.110 QC (2.79)	7.55	150gf	SW766-ND	.78	.71	.63	SS-3GPT
	SPDT	3	PC Mt. (uneven)	7.55	150gf	SW769-ND	.78	.71	.63	SS-3GPD
	SPDT	3	PC Mt. (even)	7.55	150gf	SW772-ND	1.13	1.02	.91	SS-3GPB
	SPDT Gold	0.1	Solder Terminal	7.55	150gf	SW775-ND	.78	.71	.63	SS-01GP
	SPDT Gold	0.1	.110 QC (2.79)	7.55	150gf	SW778-ND	.78	.71	.63	SS-01GPT
	SPDT Gold	0.1	PC Mt. (uneven)	7.55	150gf	SW781-ND	1.20	1.09	.97	SS-01GPD
	SPDT Gold	0.1	PC Mt. (even)	7.55	150gf	SW784-ND	1.13	1.02	.91	SS-01GPB
8	SPDT	3	Solder Terminal	14.5	50gf	SW764-ND	.92	.83	.74	SS-3GLP
	SPDT	3	.110 QC (2.79)	14.5	50gf	SW767-ND	.92	.83	.74	SS-3GLPT
	SPDT	3	PC Mt. (even)	14.5	50gf	SW773-ND	.92	.83	.74	SS-3GLPB
	SPDT Gold	0.1	Solder Terminal	14.5	50gf	SW776-ND	.92	.83	.74	SS-01GLP
	SPDT Gold	0.1	.110 QC (2.79)	14.5	50gf	SW779-ND	.92	.83	.74	SS-01GLPT
	SPDT Gold	0.1	PC Mt. (even)	14.5	50gf	SW785-ND	1.32	1.20	1.06	SS-01GLPB
10	SPDT	3	Solder Terminal	15.8	50gf	SW765-ND	.92	.83	.74	SS-3GL13P
	SPDT	3	.110 QC (2.79)	15.8	50gf	SW768-ND	.92	.83	.74	SS-3GL13PT
	SPDT	3	PC Mt. (uneven)	15.8	50gf	SW771-ND	.92	.83	.74	SS-3GL13PD

(Continued)

OMRON Basic Type Snap Switches *(Cont.)*

Fig. 11 — D2F Series

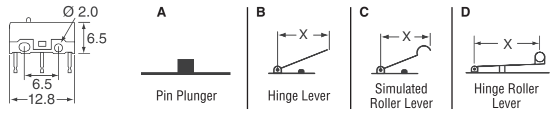

Pin Plunger · Hinge Lever · Simulated Roller Lever · Hinge Roller Lever

Fig. 12 — D2FW Series Watertight; IP67

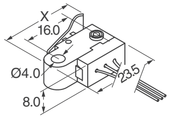

D2MQ Series

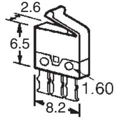

Fig. 13

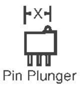

Pin Plunger

Fig. 14

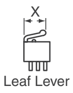

Leaf Lever

Fig. 15 — D3C Series

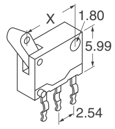

D2HW Series Watertight; IP67

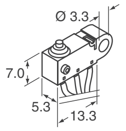

Fig. 16

Pin Plunger

Fig. 17

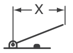

Hinge Lever

Fig. 18

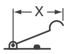

Simulated Roller Lever

Fig. 19

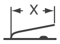

Leaf Lever

Fig. 20

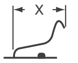

Long Leaf Lever

A

B

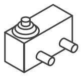

C

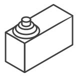

D

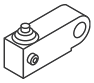

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
10	SPDT	3	PC Mt. (even)	15.8	50gf	SW774-ND	.92	.83	.74	SS-3GL13PB
	SPDT Gold	0.1	Solder Terminal	15.8	50gf	SW777-ND	.92	.83	.74	SS-01GL13P
	SPDT Gold	0.1	.110 QC (2.79)	15.8	50gf	SW780-ND	.92	.83	.74	SS-01GL13PT
	SPDT Gold	0.1	PC Mt. (uneven)	15.8	50gf	SW783-ND	.92	.83	.74	SS-01GL13PD
	SPDT Gold	0.1	PC Mt. (even)	15.8	50gf	SW786-ND	1.32	1.20	1.06	SS-01GL13PB
Watertight IP67 D2SW/D2JW Series										
7	SPDT	3	Solder Terminal	7.5	180gf	SW228-ND	3.35	3.02	2.68	D2SW-3HS
	SPDT	3	.110 QC (2.79)	7.5	180gf	SW229-ND	3.35	3.02	2.68	D2SW-3TS
	SPDT	3	PC Mount	7.5	180gf	SW291-ND	3.35	3.02	2.68	D2SW-3DS
	SPDT	3	12" Wires (304.8)	7.5	180gf	SW292-ND	5.56	5.00	4.45	D2SW-3MS
8	SPDT	3	Solder Terminal	14.5	60gf	SW293-ND	3.56	3.20	2.85	D2SW-3L1HS
	SPDT	3	.110 QC (2.79)	14.5	60gf	SW294-ND	3.56	3.20	2.85	D2SW-3L1TS
	SPDT	3	12" Wires (304.8)	14.5	60gf	SW295-ND	5.80	5.22	4.64	D2SW-3L1MS
9	SPDT	0.1	12" Wires	14.5	60gf	SW862-ND	6.58	5.93	5.27	D2SW-01L2MS
	SPDT	0.1	Solder Terminal	14.5	60gf	SW1084-ND	4.27	3.85	3.42	D2SW-01L2HS
	SPDT	3	Solder Terminal	14.5	60gf	SW237-ND	4.06	3.66	3.25	D2SW-3L2HS
	SPDT	3	12" Wires (304.8)	14.5	60gf	SW238-ND	6.12	5.51	4.90	D2SW-3L2MS
10	SPDT	0.1	12" Wires (304.8)	15.0	97gf	SW1083-ND	10.70	9.64	8.57	D2JW-01K31-MD
	SPDT	0.1	.110 QC (2.79)	15.8	60gf	SW1095-ND ***NEW!***	4.02	3.62	3.22	D2SW-01L3TS
	SPDT	3	Solder Terminal	15.8	60gf	SW296-ND	3.56	3.20	2.85	D2SW-3L3HS
	SPDT	3	12" Wires (304.8)	15.8	60gf	SW297-ND	5.80	5.22	4.64	D2SW-3L3MS
Watertight IP67 Low Cost D2SW-P Series										
7	SPDT	0.1	PC Mt. (uneven)	7.55	183gf	SW804-ND	1.96	1.77	1.58	D2SW-P01D
	SPDT	2	.110 QC (2.79)	7.55	183gf	SW809-ND	1.23	1.11	.99	D2SW-P2T
9	SPDT	2	Solder Terminal	14.5	61gf	SW810-ND	1.98	1.79	1.59	D2SW-P2L2H
10	SPDT	0.1	.110 QC (2.79)	15.8	61gf	SW805-ND	1.79	1.62	1.44	D2SW-P01L3T
	SPDT	0.1	PC Mt. (uneven)	15.8	61gf	SW806-ND	1.79	1.62	1.44	D2SW-P01L3D
	SPDT	0.1	PC Mt. (even)	15.8	61gf	SW807-ND	2.52	2.27	2.02	D2SW-P01L3B
	SPDT	0.1	12" Wires (304.8)	15.8	61gf	SW808-ND	3.85	3.47	3.08	D2SW-P01L3M
	SPDT	2	Solder Terminal	15.8	61gf	SW811-ND	1.60	1.45	1.29	D2SW-P2L3H
	SPDT	2	12" Wires (304.8)	15.8	61gf	SW812-ND	3.66	3.30	2.93	D2SW-P2L3M
D2F Series										
11A	SPDT	0.1	PC Mount	—	75gf	SW502-ND	1.33	1.20	1.07	D2F-01F
	SPDT	0.1	PC Mount	—	150gf	SW501-ND	1.33	1.20	1.07	D2F-01
	SPDT	3	PC Mount	—	75gf	SW503-ND	1.27	1.14	1.02	D2F-F
	SPDT	3	PC Mount	—	150gf	SW500-ND	1.33	1.20	1.07	D2F
	SPDT	0.1	Solder Terminal	—	150gf	SW857-ND	1.36	1.23	1.09	D2F-01-D
11B	SPDT	0.1	PC Mount	12.8	80gf	SW154-ND	1.48	1.33	1.19	D2F-01L
	SPDT	1	PC Mount	12.8	25gf	SW153-ND	1.48	1.33	1.19	D2F-FL
	SPDT	3	PC Mount	12.8	80gf	SW152-ND	1.48	1.33	1.19	D2F-L
	SPDT	0.1	Solder Terminal	12.8	80gf	SW1054-ND	1.53	1.38	1.23	D2F-01L-D
	SPDT	3	Solder Terminal	12.8	80gf	SW861-ND	1.41	1.28	1.14	D2F-L-D
	SPDT	1	Right Angle	12.8	25gf	SW841-ND	1.91	1.72	1.53	D2F-FL-A
	SPDT	3	Right Angle	12.8	80gf	SW842-ND	1.91	1.72	1.53	D2F-L-A
	SPDT	3	Left Angle	12.8	80gf	SW843-ND	1.82	1.64	1.46	D2F-L-A1
11C	SPDT	3	PC Mount	10.0	80gf	SW1093-ND ***NEW!***	2.39	2.16	1.92	D2F-L3
	SPDT	0.1	PC Mount	10.0	80gf	SW859-ND	1.62	1.47	1.30	D2F-01L3
11D	SPDT	3	PC Mount	12.8	80gf	SW860-ND	2.72	2.45	2.18	D2F-L2
	SPDT	0.1	Solder Terminal	12.8	80gf	SW840-ND	2.76	2.49	2.22	D2F-01L2-D
Watertight IP67 D2FW Series										
12	SPST-NO	0.1	12 Wires (304.8)	22.8	250gf	SW511-ND	6.72	6.05	5.38	D2FW-G073M
	SPST-NO	1	12 Wires (304.8)	22.8	250gf	SW512-ND	6.72	6.05	5.38	D2FW-G273M
	SPST-NO	0.1	12 Wires (304.8)	19.0	300gf	SW513-ND	6.40	5.76	5.12	D2FW-G083M
D2MQ Series										
13	SPDT Silver	500mA	.05 (1.27)	6.0	120gf	SW145-ND	3.17	2.86	2.54	D2MQ-1
	SPDT Silver	500mA	.05 (1.27)	6.0	120gf	SW1057-ND	3.28	2.96	2.63	D2MQ-1-TL
14	SPDT Silver	500mA	.05 (1.27)	7.7	60gf	SW146-ND	3.28	2.96	2.63	D2MQ-1L
	SPDT Silver	500mA	.05 (1.27)	7.7	60gf	SW1055-ND	3.35	3.02	2.69	D2MQ-1L-TL
	SPDT Silver	500mA	.05 (1.27)	7.7	60gf	SW1056-ND	3.35	3.02	2.69	D2MQ-1L-TR
D3C Series										
15	Non-Short	0.1	PC Mount	8.69	130gf	SW224-ND	1.28	1.16	1.03	D3C-1210
	Shorting	0.1	PC Mount	8.69	130gf	SW226-ND	1.28	1.16	1.03	D3C-2210
	Non-Short	0.1	PC Mount	8.69	40gf	SW225-ND	1.28	1.16	1.03	D3C-1220
	Shorting	0.1	PC Mount	8.69	40gf	SW227-ND	1.28	1.16	1.03	D3C-2220
Watertight IP67 D2HW Miniature Series										
16A	SPDT	2	Right Angle PCB	—	76gf	SW714-ND	2.69	2.43	2.16	D2HWBR201DR
	SPDT	2	Down Wire Leads	—	76gf	SW719-ND	5.48	4.93	4.39	D2HWBR201M
16B	SPDT	2	Right Angle PCB	—	76gf	SW715-ND	2.69	2.43	2.16	D2HWBL201DL
	SPDT	2	Down Wire Leads	—	76gf	SW720-ND	5.48	4.93	4.39	D2HWBL201M
16C	SPDT	2	Straight PCB	—	76gf	SW716-ND	2.69	2.43	2.16	D2HWA201D
16D	SPDT	2	Down Wire Leads	—	76gf	SW721-ND	6.04	5.44	4.84	D2HWC201M
17A	SPDT	2	Down Wire Leads	13.0	61gf	SW722-ND	5.76	5.19	4.62	D2HWBR211M
	SPST-NC	2	Right Wire Leads	13.0	61gf	SW725-ND	5.76	5.19	4.62	D2HWBR212MR
	SPST-NO	2	Right Wire Leads	13.0	61gf	SW728-ND	5.76	5.19	4.62	D2HWBR213MR
	SPST-NO	2	Left Wire Leads	13.0	61gf	SW733-ND	5.76	5.19	4.62	D2HWBR213ML
17B	SPDT	2	Right Angle PCB	20.0	41gf	SW718-ND	2.87	2.59	2.30	D2HWBL221DL
	SPDT	2	Down Wire Leads	20.0	41gf	SW736-ND	5.76	5.19	4.62	D2HWBL221M
	SPST-NC	2	Right Wire Leads	13.0	61gf	SW726-ND	8.28	7.46	6.63	D2HWBL212MR
	SPST-NO	2	Right Wire Leads	13.0	61gf	SW729-ND	5.76	5.19	4.62	D2HWBL213MR
	SPST-NO	2	Left Wire Leads	13.0	61gf	SW734-ND	8.28	7.46	6.63	D2HWBL213ML
17C	SPST-NO	2	Right Wire Leads	13.0	61gf	SW730-ND	6.23	5.61	4.99	D2HWC213MR
17D	SPDT	2	Down Wire Leads	13.0	61gf	SW724-ND	6.23	5.61	4.99	D2HWC211M
	SPST-NC	2	Right Wire Leads	13.0	61gf	SW727-ND	6.23	5.61	4.99	D2HWC212MR
18A	SPDT	2	Down Wire Leads	16.0	61gf	SW737-ND	5.76	5.19	4.62	D2HWBR231M
	SPDT	2	Down Wire Leads	16.0	183gf	SW741-ND	8.28	7.46	6.63	D2HWBR271M
18B	SPDT	2	Down Wire Leads	16.0	61gf	SW738-ND	5.76	5.19	4.62	D2HWBL231M
	SPDT	2	Down Wire Leads	16.0	183gf	SW742-ND	5.76	5.19	4.62	D2HWBL271M
19A	SPDT	2	Down Wire Leads	8.0	183gf	SW739-ND	5.76	5.19	4.62	D2HWBR261M
20A	SPDT	2	Down Wire Leads	20.85	92gf	SW743-ND	5.76	5.19	4.62	D2HWBR281M
20B	SPDT	2	Down Wire Leads	20.85	92gf	SW744-ND	5.76	5.19	4.62	D2HWBL281M

J Series – Mini Snap Switches

Features: • Snap-action switch allows large-capacity switching (7A @ 250VAC) in spite of its small size (8.9 x 12.7 x 5.1mm) • Particularly suitable as control switches for applications where there are restrictions on installation space and weight

Characteristics: • Contact Resistance: 15mΩ maximum • Dielectric Strength: 600VAC, 50/60Hz for 1 minute between terminals of the same polarity • Durability: Mechanical: 10,000,000 operations minimum; Electrical: 50,000 operations minimum • Ambient Operating Temperature: -10°C ~ 80°C

Fig. 1

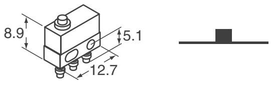

Fig. 2

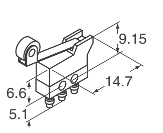

A

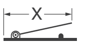

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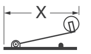

Fig.	Operating Force (gf) Maximum	Actuator Type	Dim. X (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	140	Pin Plunger	—	SW813-ND	9.70	8.73	7.76	J-7
2A	50	Short Hinge Lever	12.7	SW814-ND	14.77	13.30	11.82	J-7-V
	30	Hinge Lever	22.0	SW815-ND	15.08	13.58	12.07	J-7-V3
2B	33	Hinge Roller Lever	20.5	SW818-ND	17.45	15.71	13.97	J-7-V2

B3J Series – Tactile Switches

Superior snap action using Omron's B3F tact switches and hinged lever cap. Switches include hinged caps that are available with none, 1 or 2 LED's. Ideal for data entry, logic and digital signal input.
Characteristics: Switching Capacity: 1-50mA, 5-24VDC • Ambient Temperature: -25°C ~ 70°C • Contact Resistance: 100mΩ maximum (rated 1mA, 5VDC) • Dielectric Strength: 500VAC, 50/60Hz for 1 minute • Bounce Time: 5ms maximum • Life Expectancy: 3,000,000 operations minimum **LED:** • VF: 2.0VDC • IF: 20mA • VR: 5VDC

Fig. 1

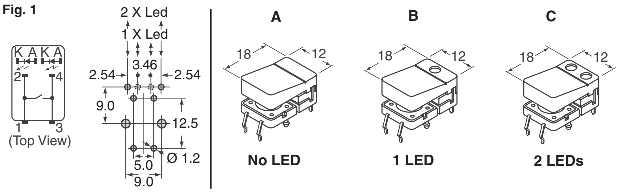

No LED · 1 LED · 2 LEDs

Fig.	Color of Hinged Button	Color of LED	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	Light Gray	—	SW819-ND	1.58	1.43	1.27	B3J-1000
	Black	—	SW820-ND	1.58	1.43	1.27	B3J-1100
	Orange	—	SW2314-ND	1.58	1.43	1.27	B3J-1200
	Yellow	—	SW2315-ND	1.58	1.43	1.27	B3J-1300
	Blue	—	SW2316-ND	1.58	1.43	1.27	B3J-1400
1B	Light Gray	Red	SW821-ND	2.82	2.55	2.26	B3J-2000
	Black	Red	SW822-ND	2.82	2.55	2.26	B3J-2100
	Light Gray	Green	SW823-ND	2.82	2.55	2.26	B3J-4000
	Black	Green	SW824-ND	2.82	2.55	2.26	B3J-4100
1C	Light Gray	Red/Green	SW825-ND	3.98	3.59	3.19	B3J-6000
	Black	Red/Green	SW826-ND	3.98	3.59	3.19	B3J-6100

OMRON D2A Series – Pushbutton Switches

Ultra subminiature detection switch with pushbutton action.
Features: • Compact (8 x 6 x 4.2mm (W x H x D) • Light weight (approximately 0.3g) • 3mm long stroke • Built-in slide mechanism for selecting shorting or non-shorting timing of the switch • Switch's small size makes it ideal for household appliances, audio equipment, office equipment, communications equipment, etc. **Characteristics:** • Contact Rating: .1A @ 30VDC • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Dielectric Strength: 250VAC, 50/60Hz for 1 minute • Ambient Temperature: Operating: -10°C ~ 70°C

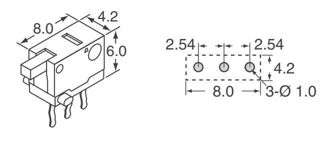

Operating Force (gf) Maximum	Switching Timing	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
100	Shorting	SW832-ND	1.46	1.32	1.18	D2A-2110
50	Non-shorting	SW833-ND	1.46	1.32	1.18	D2A-1120
50	Shorting	SW834-ND	1.46	1.32	1.18	D2A-2120

D3D Series — Miniature Door Switches

Omron's Mini Door Switch has a unique mechanism allowing switching of micro loads. Choose from plunger or lever actuators, both having a low operating force of 204g maximum. Uses JST's HL connectors. **Features**: • Disconnectable crimp connector for easier wiring • High contact reliability ensured with gold crossbar contacts • Low noise operation • Operating Temperature: -30°C ~ 60°C • Contact Resistance: 100mΩ maximum • UL, CSA, VDE approved

Fig. 1

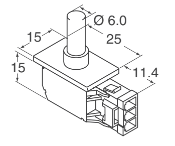

Fig. 2

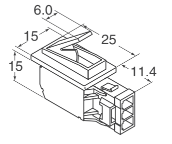

Fig.	Contact Style	Actuator Type	Operating Force (gf) Maximum	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPDT	Plunger	204	SW745-ND	1.92	1.73	1.54	D3D-111
	SPST-NC	Plunger	204	SW746-ND	1.68	1.52	1.35	D3D-121
	SPST-NO	Plunger	204	SW747-ND	1.68	1.52	1.35	D3D-131
2	SPDT	Lever	204	SW748-ND	2.04	1.84	1.63	D3D-211
	SPST-NC	Lever	204	SW749-ND	1.79	1.62	1.44	D3D-221
	SPST-NO	Lever	204	SW750-ND	1.79	1.62	1.44	D3D-231

JST HLP Series for Omron D3D Series

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 6,000	JST Part No.
Connector Housing, 3-Position for D3D Switch	455-1562-ND	1.49	12.39	49.54	—	—	HLP-03V
Contacts for Connector Housing, 18~22 AWG	455-1563-1-ND†	.54	4.47	17.88	455-1563-2-ND	26.82/M	SSF-21T-P1.4

† Cut Tape

OMRON D2D Series — Door Interlock Switches

Features:
• Offers the minimum contact gap of 3mm required for power switches as standard equipment • Safety considerations include a double return spring and direct drive positive contact opening feature • Conforms to Class II of VDE Insulation • Pull-on lock model for easy maintenance

Specifications: • Rated voltage: 125VAC = 16NO/NC; 250VAC = 16NO/NC; 380VAC = 16NO/NC • Inrush Current: NC = 30A maximum; NO = 30A maximum • Operating Frequency: *Mechanical:* 300 operations per minute; *Electrical:* 60 operations per minute • Operating Temperature: -25°C ~ 85°C • Mechanical Service Life: 10,000,000 operations per minute • DM = Double Make

Contact Form	Mounting Method	Type	Resistive Load (A)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
SPDT-DM	Screw	Standard	16	SW980-ND	7.10	6.39	5.68	D2D-1000
SPST-NO	Screw	Standard	16	SW1089-ND ***NEW!***	6.34	5.71	5.08	D2D-1001
SPDT-DM	Panel snap-fit	Standard	16	SW982-ND ***NEW!***	9.69	8.72	7.75	D2D-1100
SPST-NO	Panel snap-fit	Standard	16	SW1090-ND ***NEW!***	7.81	7.03	6.25	D2D-1101
SPST-NC	Panel snap-fit	Standard	16	SW1091-ND ***NEW!***	7.81	7.03	6.25	D2D-1102
SPDT-DM	Screw	Pull-on lock	10	SW983-ND	8.11	7.31	6.50	D2D-2000
SPDT-DM	Panel snap-fit	Pull-on lock	10	SW984-ND	8.18	7.37	6.55	D2D-2100
SPDT-DM	Panel snap-fit	Standard	16	SW1053-ND	10.34	9.31	8.28	D2D-3103

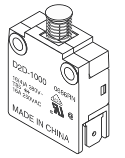

(Screw Mounting Method shown)

D3M Series — Production Wired Snap Switches

Easy wiring snap switch for general purpose snap switch applications. Contact current of 0.1A, RoHS Compliant and external levers, makes this switch an easy production type switch. Mating connector uses JST's XA connector: XAP-02V-1 (455-1903-ND)

Specifications: • Operating Frequency: *Mechanical:* 400 operations/minute maximum; *Electrical:* 60 operations/minute maximum • Life Expectancy: *Mechanical:* 500,000 operations, *Electrical:* 200,000 operations • Operating Temperature: -25°C ~ 85°C

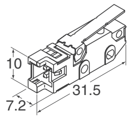

Fig. 1

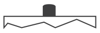

Fig. 2

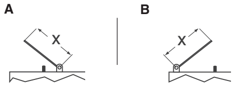

Fig. 3

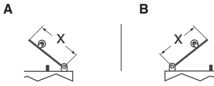

Fig. 4

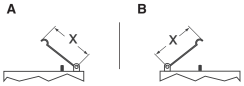

Fig.	Contact Style	Contact Rating (A)	Dimension X Inch (mm)	Actuation Force (gf)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPST-NC	0.1	—	153	SW877-ND	2.34	2.11	1.88	D3M-01
2A	SPST-NC	0.1	.72" (18.2)	51	SW879-ND	2.33	2.10	1.87	D3M-01K1
	SPST-NO	0.1	.72" (18.2)	51	SW880-ND	2.16	1.94	1.73	D3M-01K1-3
2B	SPST-NC	0.1	.72" (18.2)	102	SW885-ND	2.33	2.10	1.87	D3M-01L1
	SPST-NO	0.1	.72" (18.2)	102	SW886-ND	2.18	1.97	1.75	D3M-01L1-3
3A	SPST-NC	0.1	.70" (17.8)	51	SW881-ND	3.28	2.96	2.63	D3M-01K2
	SPST-NO	0.1	.70" (17.8)	51	SW882-ND	2.83	2.56	2.27	D3M-01K2-3
3B	SPST-NC	0.1	.70" (17.8)	102	SW887-ND	3.28	2.96	2.63	D3M-01L2
	SPST-NO	0.1	.70" (17.8)	102	SW888-ND	2.67	2.41	2.14	D3M-01L2-3
4A	SPST-NC	0.1	.78" (19.2)	51	SW883-ND	2.33	2.10	1.87	D3M-01K3
	SPST-NO	0.1	.78" (19.2)	51	SW884-ND	2.18	1.97	1.75	D3M-01K3-3
4B	SPST-NC	0.1	.78" (19.2)	102	SW889-ND	2.33	2.10	1.87	D3M-01L3
	SPST-NO	0.1	.78" (19.2)	102	SW890-ND	2.18	1.97	1.75	D3M-01L3-3

JST XAP Series for Omron D3M Series

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 8,000	JST Part No.
Connector Housing, 2-Position for D3M Switch	455-1903-ND	.63	5.26	21.02	—	—	XAP-02V-1
Contacts for Connector Housing, 28~22AWG	455-1904-1-ND†	.25	2.10	8.38	455-1904-2-ND	12.57/M	SXA-001T-P0.6

† Cut Tape

OMRON Basic Switches

Omron's "Z" Series switches feature 15A contacts which directly switches such loads as motors, halogen lamps and solenoids. **Omron's "A" Series** has the same body yet switches 20A loads with large inrush currents. All switches feature screw terminal connections and are UL listed CSA certified. Both series are momentary action, SPDT versions. **Omron's "TZ" Series** incorporate a ceramic body, cobalt-alloy spring and special-alloy contact, thus ensuring high contact reliability at high ambient temperature. Smoothly operates at an ambient temperature of 400°C. Operates from -65°C ~ 400°C. **Omron's "D4MC" Series**: Compact enclosed limit switch suitable for applications demanding higher mechanical strength, dust proof and drip proof properties that are in tight service locations. High precision and long life.

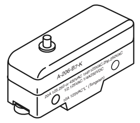
Z, A and TZ Series

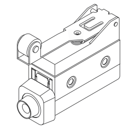
D4MC Series - Industrial Sealed (IP67)
(Hinge Roller Lever version shown)

Fig. 1
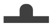

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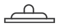

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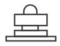

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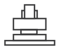

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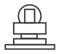

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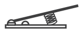

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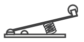

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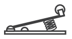

Fig.	Operating Force (max.)	Switch Current (A)	Actuator Type	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
Snap Action Switches — Z Series									
1	350g	15	Pin Plunger	—	SW190-ND	9.10	8.19	7.28	Z15G-B
2	350g	15	Spring Plunger	—	SW191-ND	11.17	10.05	8.94	Z15GD-B
	350g	15	Short Spring Plunger	—	SW1004-ND	14.82	13.34	11.86	Z-15GD55-B
	550g	15	Slim Spring Plunger	—	SW892-ND	11.74	10.57	9.39	Z15GS-B
3	350g	15	Panel Plunger	—	SW192-ND	15.24	13.72	12.19	Z15GQ-B
4	350g	15	Panel Roller	—	SW193-ND	17.99	16.19	14.39	Z15GQ21-B
5	350g	15	Panel Roller	—	SW194-ND	17.99	16.19	14.39	Z15GQ22-B
6	70g	15	Lever	63.5	SW195-ND	12.18	10.97	9.75	Z15GW-B
	6g	15	Low Force Lever	63.5	SW198-ND	12.60	11.35	10.09	Z15HW24-B7-K
7	100g	15	Long Roller Lever	48.49	SW196-ND	12.18	10.97	9.75	Z15GW2-B
8	160g	15	Short Roller Lever	26.59	SW197-ND	11.41	10.28	9.14	Z15GW22-B
	200g	15	Short Roller Lever	26.59	SW893-ND	17.21	15.50	13.77	Z15GW2255-B
Snap Action Switches — A Series									
1	625g	20	Pin Plunger (Solder Terminal)	—	SW1092-ND ***NEW!***	12.30	11.07	9.84	A-20G
	625g	20	Pin Plunger	—	SW230-ND	12.30	11.07	9.84	A20G-B7-K
3	625g	20	Panel Plunger	—	SW233-ND	18.70	16.84	14.97	A20GQ-B7-K
6	70g	20	Lever	63.5	SW231-ND	12.36	11.12	9.89	A20GV-B7-K
7	90g	20	Long Roller Lever	48.4	SW1079-ND	12.36	11.12	9.89	A-20GV2-B
	90g	20	Long Roller Lever	48.4	SW232-ND	12.36	11.12	9.89	A20GV2-B7-K
8	160g	20	Short Roller Lever	26.2	SW234-ND	13.28	11.96	10.63	A20GV22-B7-K
Phenolic Terminal Cover for A/Z Series					SW235-ND	1.06	.96	.85	AP-B
Terminal Cover with Strain Relief for A/Z Series					SW236-ND	5.52	4.97	4.42	AP-Z
High Temperature Basic Switches — TZ Series									
1	500g	1	Pin Plunger	—	SW759-ND	408.70	367.83	326.96	TZ-1G
8	240g	1	Short Roller Lever	26.59	SW762-ND	694.52	625.07	555.62	TZ-1GV22
Industrial Sealed (IP67) Basic Switches — D4MC Series									
3	5.88N	10	Panel Plunger	—	Z2728-ND	25.09	23.24	21.69	D4MC-5000
4	5.88N	10	Panel Cross Roller Plunger	—	Z2730-ND	26.25	24.31	22.69	D4MC-5040
5	5.88N	10	Panel Roller Plunger	—	Z2729-ND	26.25	24.31	22.69	D4MC-5020
7	1.96N	10	Long Roller Lever	63.7	Z2726-ND	20.89	19.35	18.06	D4MC-2000
8	2.94N	10	Short Roller Lever	41.0	Z2727-ND	19.38	17.95	16.76	D4MC-2020

D4C Industrial Sealed Limit Switches

Omron's D4C series limit switches are industrial enclosed limit switches with rugged die cast housing, triple sealed construction and pre-wired 10' cable.
Perfect for harsh environments and indoor/outdoor uses where small size is a consideration.

Fig.	Dim. A (mm)	Operating Force (max.)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
1	54.2	1200g	5	Pin Plunger	Z1055-ND	72.22	66.87	62.41	D4C-1601
	75.7	1800g	5	Sealed Pin Plunger	Z2720-ND	73.41	67.97	63.44	D4C-1631
2	67.0	1200g	5	Roller Plunger	Z1056-ND	72.22	66.87	62.41	D4C-1602
	67.0	1200g	5	Cross Roller Plunger	Z2719-ND	72.22	66.87	62.41	D4C-1603
	85.1	1800g	5	Sealed Roller Plunger	Z2721-ND	73.41	67.97	63.44	D4C-1632
3	—	580g	5	Roller Lever	Z1057-ND	88.41	81.86	76.41	D4C-1620
4	—	150g	5	Nylon Plastic Rod	Z2723-ND	72.22	66.87	62.41	D4C-1650

Fig. 1
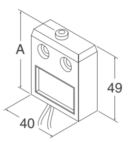

Fig. 2
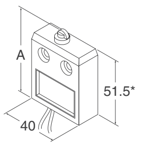

*D4C-1632 = 49mm

Fig. 3
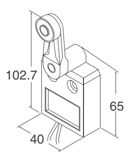

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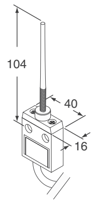

WL Robust Industrial Limit Switches

Features: • Meets EN/IEC standards (only switches with ground terminals and pre-wired connectors with DC specifications) • Long Life Models for High Frequency applications • SPDT-DM Operation: the Single pole, double-break structure ensures circuit breaking • Waterproof to IP67 • Operation Indicators for Easier Daily Inspections (LD types only)

Fig.	Operating Force (N)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
1	13.34	10	Adjustable Roller Lever	Z2749-ND	85.31	79.00	73.73	WLCA12-TS
	13.34	10	90° Adjustable Roller Lever	Z2748-ND	112.33	104.01	97.08	WLCA12-2-TS
2	13.34	10	Roller Lever	Z2751-ND	73.08	67.67	63.16	WLCA2-TS
	8.83	10	90° Roller Lever	Z2750-ND	77.57	71.83	67.04	WLCA2-2-TS
	9.81	10	High Sensitivity Roller Lever	Z2755-ND	160.26	148.40	138.50	WLG2-LD
3	1.39	10	Adjustable Rod Lever	Z2752-ND	79.35	73.48	68.58	WLCL-TS
4	1.47	10	8.0mm Dia. Coil Spring (Resin Rod)	Z2756-ND	107.62	99.65	93.01	WLNJ-2-TS
—	26.67	10	Top-Roller Plunger	Z2754-ND	106.04	98.19	91.64	WLD2-TS

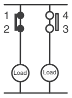

Schematic

Fig. 1
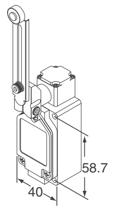

Adjustable Roller

Fig. 2
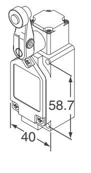

Roller Lever

Fig. 3
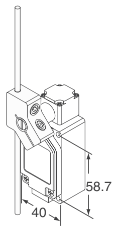

Adjustable Rod

Fig. 4
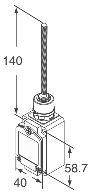

Resin Rod

OMRON

ZE Industrial Sealed High Capacity Switches

Long service life, rugged die cast housing sealed industrial switches with a high capacity contact (15A). NEMA sealed for extremely long service life (SPDT 15A @ 125VAC).

Fig.	Operating Force (max.)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	640g	15	Roller Arm Lever	Z1058-ND	53.57	49.60	46.30	ZE-NA2-2S
2	150g	15	Coil Spring	Z1059-ND	54.73	50.68	47.30	ZE-NJ-2S
3	800g	15	Plunger	Z1060-ND	41.55	38.48	35.91	ZE-N-2S
4	500g	15	Roller Plunger	Z1061-ND	55.61	51.50	48.06	ZE-N22-2S

Fig. 1

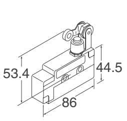

Fig. 2

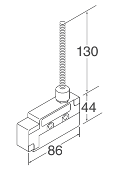

Fig. 3

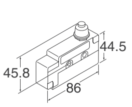

Fig. 4

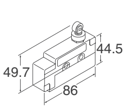

Safety-Door Switch

Features: • Special operation key that positively pulls apart contacts, contributing to machine safety • Degree of protection: IP67 • Conforms to the following EC Directives: Machinery Directive, Low Voltage Directive, EN50041, EN1088 • Operating Temperature: -40 ~ 80°C • Conduit: 1/2-14NPT • Life Expectancy: Mechanical - 1,000,000 Operations minimum • Conventional Enclosed Thermal Current: 20 A

Fig.	Dimensions (mm) A	B	C	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	111.5	40	31.4	Safety Switch DP-N/C (2NC) 10A Sealed	Z2433-ND	74.17	68.68	64.11	D4BS-3AFS
	111.5	40	31.4	Safety Switch SPDT (1NC/1NO) 10A Sealed	Z2434-ND	74.17	68.68	64.11	D4BS-35FS
2	—	—	—	Horizontal Mount Key for D4BS Switch	Z2430-ND	8.63	7.99	7.46	D4BS-K1
	—	—	—	Vertical Mount Key for D4BS Switch	Z2431-ND	9.89	9.16	8.55	D4BS-K2
	—	—	—	Adjustable Horizontal Mount Key for D4BS Switch	Z2432-ND	30.67	28.40	26.51	D4BS-K3
1	96	31	30.2	Safety Switch SPDT (1NC/1NO) 3A Sealed	Z2731-ND	59.56	55.16	51.48	D4NS-3AF
	96	31	30.2	Safety Switch DP-N/C (2NC) 3A Sealed	Z2732-ND	59.56	55.16	51.48	D4NS-3BF
	96	31	30.2	Safety Switch 3P-N/C (2NC/1NO) 3A Sealed	Z2733-ND	59.56	55.16	51.48	D4NS-3CF
	96	31	30.2	Safety Switch 3P-N/C (3NC) 3A Sealed	Z2734-ND	55.92	51.78	48.33	D4NS-3DF
3	—	—	—	Horizontal Mount Key for D4NS Switch	Z2724-ND	43.29	38.97	34.64	D4DS-K3
	—	—	—	Horizontal/Vertical Mount Key for D4NS Switch	Z2725-ND	51.86	46.68	41.49	D4DS-K5

Fig. 1

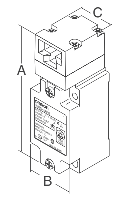

Fig. 2

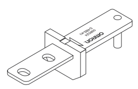

Fig. 3

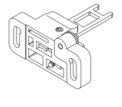

Horizontal/Vertical Type Shown

Honeywell
Sensing and Control

MICRO SWITCH™ Limit Switches

Honeywell's limit switches combine product selection, quality and reliability to give you the right product for your application, every time. Honeywell's extensive product line offers features and benefits at a competitive price to solve your switching needs.

Dim. in inches

Fig. 1

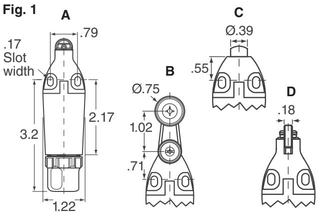

Fig. 2

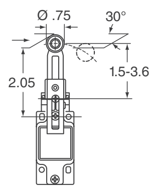

Fig. 3

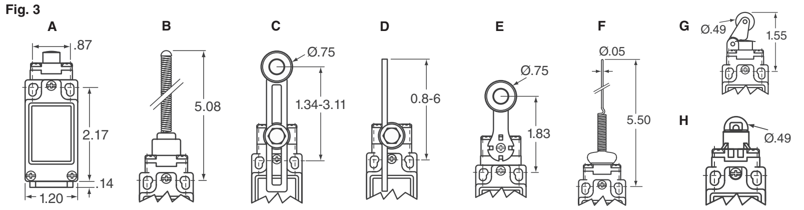

Fig. 4

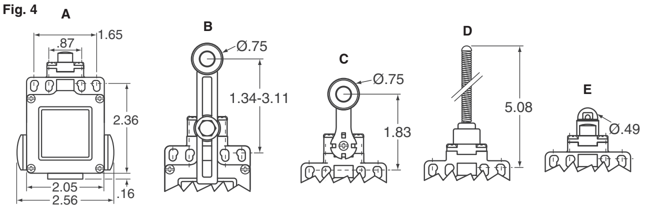

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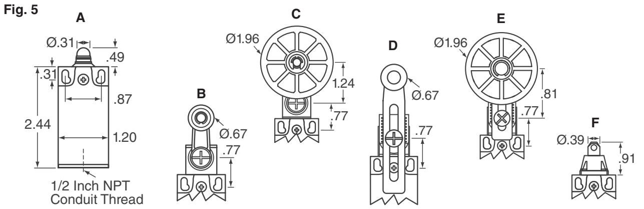

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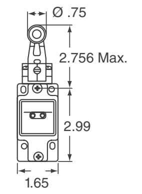

Fig. 7

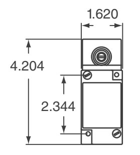

Fig. 8

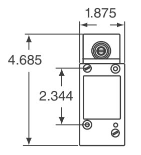

Fig. 9

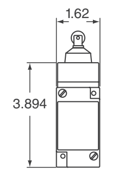

Fig. 10

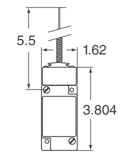

Fig. 11

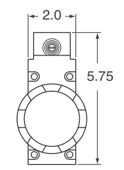

Fig. 12

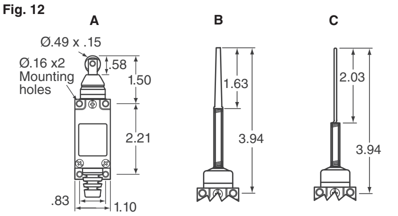

Fig.	Current Rating (A)	Circuit	Actuator Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
1A	10	SPDT	Roller Plunger	480-2701-ND	22.98	18.28	17.13	EVN2000C
1B	10	SPDT	Side Rotary with Roller	480-2699-ND	26.14	20.80	19.49	EVN2000A
1C	10	SPDT	Top Plunger	480-2700-ND	22.98	18.28	17.13	EVN2000B
1D	10	SPDT	Roller Arm	480-2702-ND	22.98	18.28	17.13	EVN2000D
2	10	SPDT	Side Rotary - No Lever	480-2924-ND	68.18	56.48	54.05	GLAA01A
2	10	SPDT	Side Rotary, Adjustable Lever with Plastic Roller	480-2925-ND	84.60	70.09	67.06	GLAA01A2A
3A	10	SPDT	Top Pin Plunger	480-2719-ND	44.05	35.05	32.84	GLCA01B
3A	10	SPDT	Top Pin Plunger	480-2728-ND	28.22	22.45	21.03	GLDA01B
3B	10	SPDT	Wobble Coil Spring	480-2712-ND	46.93	37.34	34.98	GLCA01E7B
3B	10	SPDT	Wobble Coil Spring	480-2721-ND	37.72	30.01	28.12	GLDA01E7B
3C	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2713-ND	46.36	36.88	34.55	GLCA01A2B
3C	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2722-ND	36.28	28.86	27.04	GLDA01A2B
3C	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2714-ND	46.36	36.88	34.55	GLCA01A2A
3C	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2723-ND	36.28	28.86	27.04	GLDA01A2A
3D	10	SPDT	Side Rotary with Metal Rod, Adjustable Lever	480-2715-ND	46.36	36.88	34.55	GLCA01A4J
3D	10	SPDT	Side Rotary with Metal Rod, Adjustable Lever	480-2724-ND	36.28	28.86	27.04	GLDA01A4J
3E	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2716-ND	41.17	32.76	30.69	GLCA01A1B
3E	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2725-ND	31.10	24.74	23.18	GLDA01A1B
3E	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2717-ND	41.17	32.76	30.69	GLCA01A1A
3E	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2726-ND	25.92	20.62	19.32	GLDA01A1A

▲ With 4-pin DC Micro Connector § With 4-pin M12 Connector

(Continued)

Dim. in inches

Fig. 13

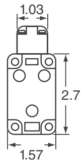

Fig. 14

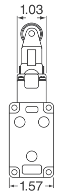

Fig. 15

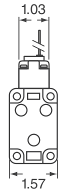

Fig. 16

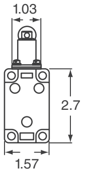

Fig. 17

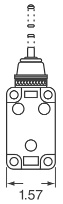

Fig. 18

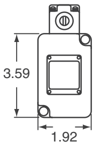

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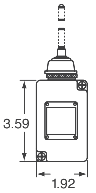

Fig. 20

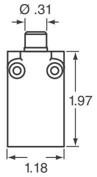

Fig. 21

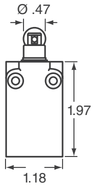

Fig. 22

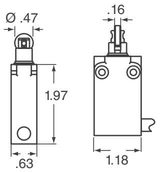

Fig. 23

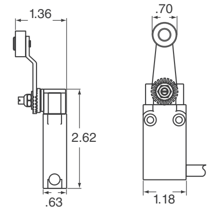

Fig. 24

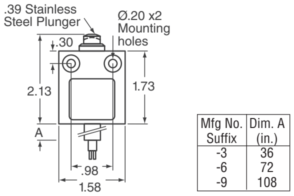

Fig. 25

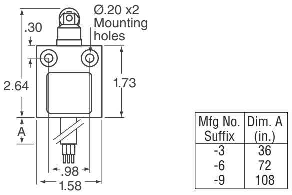

Fig. 26

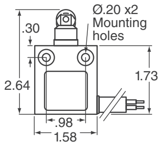

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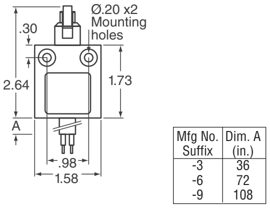

Fig. 28

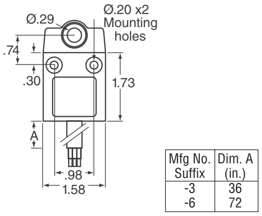

Fig. 29

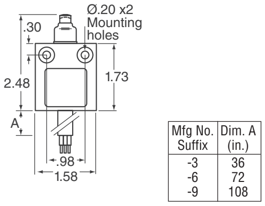

Fig. 30

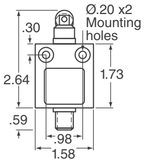

Fig.	Current Rating (A)	Circuit	Actuator Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
3F	10	SPDT	Wobble Cat Whisker	480-2720-ND	46.93	37.34	34.98	GLCA01K8A
3G	10	SPDT	Top Roller Arm	480-2718-ND	48.18	39.92	38.20	GLCA01D
3G	10	SPDT	Top Roller Arm	480-2727-ND	38.29	30.46	28.54	GLDA01D
3H	6	SPDT	Top Roller Plunger	480-2729-ND	34.55	27.49	25.75	GLDA01C
4A	10	SPDT	Top Plunger	480-2735-ND	49.22	40.78	39.02	GLEA01B
4A	10	DPDT	Top Plunger	480-2739-ND	67.61	56.01	53.59	GLEA24B
4B	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2730-ND	50.77	42.06	40.25	GLEA01A2B
4B	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2731-ND	50.77	42.06	40.25	GLEA01A2A
4B	10	DPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2737-ND	69.16	57.30	54.83	GLEA24A2A
4C	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2732-ND	50.96	40.54	37.99	GLEA01A1B
4C	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2733-ND	50.96	40.54	37.99	GLEA01A1A
4C	10	DPDT	Side Rotary, Fixed Lever Metal Roller	480-2738-ND	64.50	53.44	51.13	GLEA24A1B
4D	10	SPDT	Wobble Coil Spring	480-2734-ND	51.81	42.92	41.07	GLEA01E7B
4E	10	SPDT	Top Roller Plunger	480-2736-ND	54.92	45.50	43.53	GLEA01C
4E	10	DPDT	Top Roller Plunger	480-2740-ND	73.57	60.95	58.32	GLEA24C
5A	10	SPDT	Top Plunger	480-2707-ND	17.74	13.58	12.83	GLLA01B
5B	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2703-ND	20.46	15.67	14.80	GLLA01A1B
5C	10	SPDT	Side Rotary, Fixed Lever Rubber Roller	480-2704-ND	22.29	17.73	16.61	GLLA01A1Y
5D	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2705-ND	21.86	16.74	15.81	GLLA01A2B
5E	10	SPDT	Side Rotary, Adjustable Lever Rubber Roller	480-2706-ND	23.61	18.79	17.60	GLLA01A2Y
5F	10	SPDT	Top Roller Plunger	480-2708-ND	19.07	14.60	13.79	GLLA01C
6	6	SPDT	Side Rotary	480-2926-ND	12.55	9.61	9.07	GLZ51B
7	10	SPDT	Side Rotary - No Lever	480-2927-ND	110.33	93.43	89.79	LSA1A
7	10	SPDT	Side Rotary - No Lever	480-2935-ND	130.61	110.59	106.29	LSN1A
7	10	SPDT	Side Rotary - No Lever	480-2936-ND	116.98	99.05	95.20	LSP1A
7	6	SPDT	Side Rotary - No Lever	480-2937-ND	160.38	135.81	130.52	LSQ300
7	10	SPDT	Side Rotary - No Lever	480-2942-ND	126.87	107.43	103.25	LSYAB1A
7	10	SPDT	Side Rotary - No Lever	480-2943-ND	113.00	95.69	91.96	LSYAB3K
8	10	DPDT	Side Rotary - No Lever	480-2928-ND	136.96	115.97	111.46	LSA2B
8	10	DPDT	Side Rotary - No Lever	480-2930-ND	136.96	115.97	111.46	LSA6B
8	10	DPDT	Side Rotary - No Lever	480-2931-ND	136.96	115.97	111.46	LSA7L
8	10	DPDT	Side Rotary - No Lever	480-2933-ND	143.99	121.92	117.18	LSM6D
8	10	DPDT	Side Rotary - No Lever	480-2934-ND	126.34	106.98	102.81	LSM7N
8	10	DPDT	Side Rotary - No Lever	480-2944-ND	151.32	128.13	123.14	LSYAB6B
8	10	DPDT	Side Rotary - No Lever	480-2946-ND	157.86	133.67	128.47	LSYMB6D
9	10	SPDT	Top Roller Plunger	480-2932-ND	134.29	113.71	109.29	LSD1A
10	10	SPDT	Wobble Coil Spring	480-2945-ND	139.97	118.52	113.90	LSYKB1A-8C
11	10	SPDT	Side Rotary - No Lever	480-2938-ND	174.52	150.37	143.21	LSXA3K
11	10	SPDT	Side Rotary - No Lever	480-2939-ND	187.80	161.82	154.11	LSXYAB3K
11	10	DPDT	Side Rotary - No Lever	480-2940-ND	207.45	178.75	170.23	LSXYAB4L
—	—	—	Contact Block for LSX Series	480-2941-ND	62.12	51.46	49.24	LSXZ3K
12A	5	SPDT-DB	Roller Plunger	480-2709-ND	25.17	20.02	18.76	SZL-VL-H
12B	5	SPDT-DB	Wobble, Plastic Rod	480-2710-ND	25.17	20.02	18.76	SZL-VL-F
12C	5	SPDT-DB	Wobble, Stainless Steel Wire	480-2711-ND	25.17	20.02	18.76	SZL-VL-G
13	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2909-ND	133.18	112.77	108.38	1LS1
13	10	SPDT	Side Rotary - No Lever	480-2914-ND	129.59	109.73	105.46	1LS9
13	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2912-ND	142.00	120.24	115.56	1LS19
14	10	SPDT	Side Rotary, Adjustable Lever with Front Mounted Nylon Roller	480-2913-ND	146.22	123.82	119.00	1LS3
15	10	SPDT	Side Rotary, Adjustable Lever Rod	480-2910-ND	142.00	120.24	115.56	1LS10
15	10	SPDT	Side Rotary, Adjustable Lever Rod	480-2911-ND	142.00	120.24	115.56	1LS10-L
16	10	SPDT	Top Roller Plunger	480-2917-ND	143.12	121.19	116.47	5LS1

▲ With 4-pin DC Micro Connector § With 4-pin M12 Connector

(Continued)

MICRO SWITCH™ Limit Switches *(Cont.)*

Dim. in inches

Fig. 31

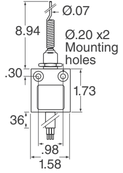

Fig. 32

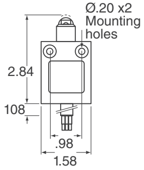

Fig. 33

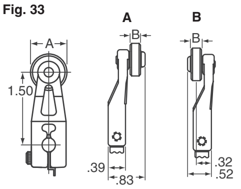

Fig. 34

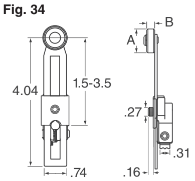

Fig. 35

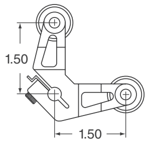

Fig. 36

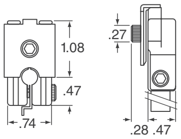

Fig. 37

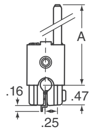

Fig. 38

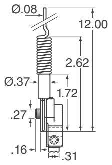

Fig. 39

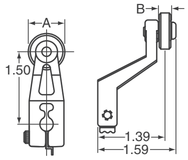

Fig. 40

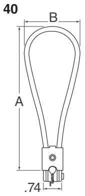

Fig. 41

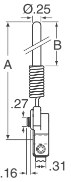

Fig. 42

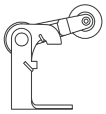

Fig. 43

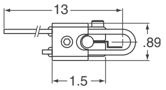

Fig. 44

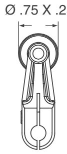

Fig. 45

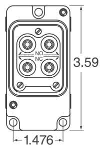

Fig.	Current Rating (A)	Circuit	Actuator Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
17	10	SPDT	Wobble Flexible Spring	480-2922-ND	133.66	113.18	108.77	8LS1
17	10	SPDT	Wobble Spring Rod	480-2923-ND	133.66	113.18	108.77	8LS3
18	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2915-ND	148.07	125.38	120.50	201LS1
19	10	SPDT	Wobble Flexible Spring	480-2916-ND	129.59	109.73	105.46	208LS1
20	10	DPST	Top Pin Plunger	480-2894-ND	42.33	33.67	31.55	91MCE1-P1
20	10	DPST	Top Pin Plunger	480-2895-ND	42.33	33.67	31.55	91MCE1-S1
21	10	DPST	Roller Plunger	480-2896-ND	44.75	35.60	33.35	91MCE2-P1
21	10	DPST	Roller Plunger	480-2897-ND	44.75	35.60	33.35	91MCE2-S1
21	10	DPST	Roller Plunger	480-2898-ND§	44.75	35.60	33.35	91MCE2-SQ
22	10	DPST	Cross Roller Plunger	480-2899-ND	44.75	35.60	33.35	91MCE3-P1
22	10	DPST	Cross Roller Plunger	480-2900-ND	44.75	35.60	33.35	91MCE3-S1
23	10	DPST	Side Rotary with Plastic Lever and Metal Roller	480-2901-ND	45.95	36.56	34.25	91MCE16-P1
23	10	DPST	Side Rotary with Plastic Lever and Metal Roller	480-2902-ND	45.95	36.56	34.25	91MCE16-S1
24	5	SPDT	Top Plunger	480-2741-ND	63.21	52.36	50.10	914CE1-3
24	5	SPDT	Top Plunger	480-2742-ND	69.42	57.51	55.03	914CE1-6
24	5	SPDT	Top Plunger	480-2743-ND	75.12	62.23	59.55	914CE1-9
25	5	SPDT	Roller Plunger	480-2744-ND	73.31	60.73	58.11	914CE2-3
25	5	SPDT	Roller Plunger	480-2745-ND	79.01	65.45	62.63	914CE2-6
25	5	SPDT	Roller Plunger	480-2746-ND	84.97	70.39	67.35	914CE2-9
26	5	SPDT	Roller Plunger	480-2756-ND	75.12	62.23	59.55	914CE2-3A
27	5	SPDT	Roller Plunger	480-2747-ND	73.31	60.73	58.11	914CE3-3
27	5	SPDT	Roller Plunger	480-2748-ND	79.01	65.45	62.63	914CE3-6
28	5	SPDT	Side Rotary	480-2750-ND	89.11	73.82	70.64	914CE16-3
28	5	SPDT	Side Rotary	480-2751-ND	88.51	74.95	72.03	914CE16-6
29	5	SPDT	Top Plunger with Boot Seal	480-2752-ND	76.16	63.09	60.37	914CE18-3
29	5	SPDT	Top Plunger with Boot Seal	480-2753-ND	82.38	68.24	65.30	914CE18-6
29	5	SPDT	Top Plunger with Boot Seal	480-2754-ND	87.82	72.75	69.61	914CE18-9
30	5	SPDT	Roller Plunger	480-2757-ND▲	77.71	64.38	61.60	914CE2-Q
31	5	SPDT	Wobble Spring Wire	480-2755-ND	86.81	73.51	70.65	914CE20-3
32	10	SPDT-DB	Roller Plunger	480-2758-ND	101.12	85.63	82.29	924CE2-S9

▲ With 4-pin DC Micro Connector § With 4-pin M12 Connector

Levers for Switches

Fig.	Material	Roller Mounting	Dimensions (Inch) A	B	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
33A	Nylon	Front	.75	.25	480-2759-ND	13.87	10.62	10.03	LSZ51A
33A	Steel	Front	.75	.25	480-2760-ND	13.87	10.62	10.03	LSZ51B
33B	Nylon	Back	.75	.25	480-2761-ND	13.87	10.62	10.03	LSZ51C
33B	Steel	Back	.75	.25	480-2762-ND	13.87	10.62	10.03	LSZ51D
34	Stainless Steel	—	—	—	480-2952-ND	17.43	13.34	12.60	LSZ52
34	Nylon	Back	.75	.25	480-2763-ND	21.67	16.59	15.67	LSZ52A
34	Steel	Back	.75	.25	480-2764-ND	21.67	16.59	15.67	LSZ52B
34	Nylon	Front	.75	.25	480-2765-ND	21.67	16.59	15.67	LSZ52C
34	Steel	Front	.75	.25	480-2766-ND	21.67	16.59	15.67	LSZ52D
34	Nylon	Front	1.0	.50	480-2767-ND	27.93	22.22	20.82	LSZ52J
34	Nylon	Front	1.5	.25	480-2768-ND	27.93	22.22	20.82	LSZ52K
34	Nylon	Front	.75	.50	480-2953-ND	21.67	16.59	15.67	LSZ52N
35	Steel	Front	—	—	480-2954-ND	21.67	16.59	15.67	LSZ53D
36	Stainless Steel	—	—	—	480-2955-ND	17.43	13.34	12.60	LSZ54
37	Aluminum	—	5.5	—	480-2769-ND	21.67	16.59	15.67	LSZ54M
37	Stainless Steel	—	13.0	—	480-2770-ND	21.67	16.59	15.67	LSZ54N
38	Spring Wire	—	—	—	480-2771-ND	21.67	16.59	15.67	LSZ54R
39	Nylon	Front	.75	.25	480-2772-ND	21.67	16.59	15.67	LSZ55C
40	Nylatron	—	6.0	2.3	480-2773-ND	21.35	16.35	15.44	LSZ61
41	Delrin Rod	—	12.0	9.8	480-2774-ND	27.93	22.22	20.82	LSZ68

Accessories for Switches

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
42	Lever and Seal Boot Limit Switch	480-2919-ND	43.31	34.45	32.28	6PA2
43	Stainless Steel Adjustable Rod	480-2921-ND	40.83	32.48	30.43	6PA63
44	Fixed Lever Front Steel Roller	480-2918-ND	19.39	14.84	14.02	6PA121
—	Seal Boot for Limit Switch	480-2920-ND	29.83	23.73	22.23	6PA20
—	Seal Boot for Limit Switch	480-2907-ND	11.76	8.60	8.06	10PA2
—	Switch Limit Operating Head	480-2947-ND	61.55	50.99	48.79	LSZ1A
—	Switch Limit Operating Head	480-2948-ND	61.55	50.99	48.79	LSZ1R
—	Switch Limit Contact Block	480-2949-ND	52.33	43.35	41.48	LSZ3A
—	Switch Limit Plug-in Unit	480-2956-ND	97.19	82.30	79.10	LSZ7A1A
—	Receptacle Plug in Single Pole	480-2950-ND	21.13	16.81	15.75	LSZ4001
—	Replacement Spring Wire Actuator	480-2951-ND	21.13	16.81	15.75	LSZ4010
45	Terminal Block	480-2908-ND	44.23	35.18	32.96	18PA1

MICRO SWITCH™ Basic Switches

Not all basic switches are alike. More than 60 years of experience go into Honeywell's high quality, high reliability switches, so you can count on Honeywell for first time, every time functionality, superior support and service.

Fig. 1

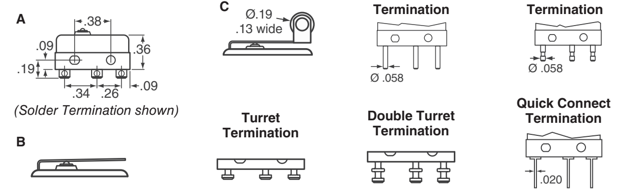

Fig. 2

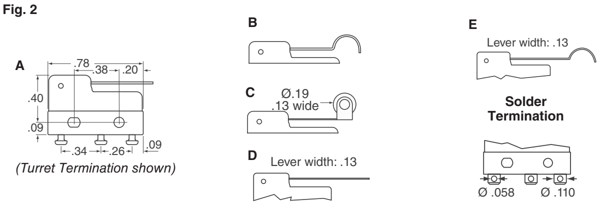

Fig. 3

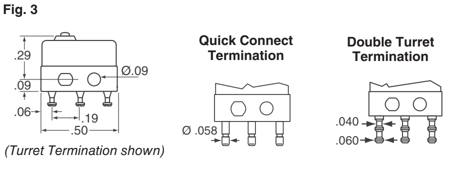
.29
Ø.09
.09
.06
.19
.50
(Turret Termination shown)
Quick Connect Termination
Ø .058
Double Turret Termination
.040
.060

Fig. 4

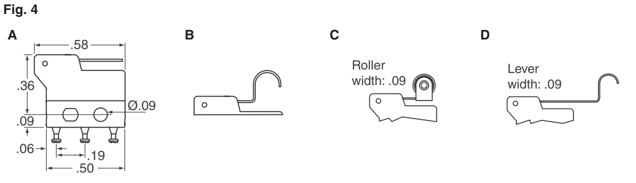

Fig. 5

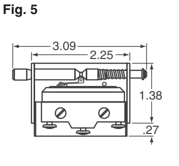

Fig. 6

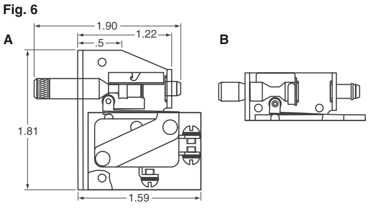

Fig. 7

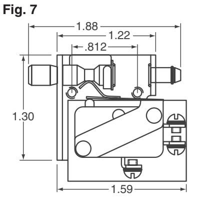

Fig. 8

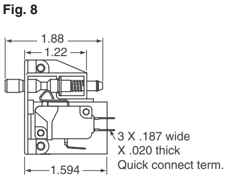

Fig. 9

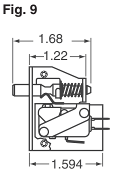

Fig. 10

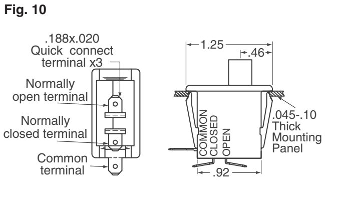

Fig. 11

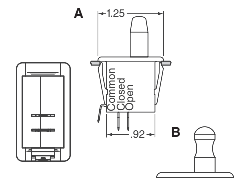

Fig. 12

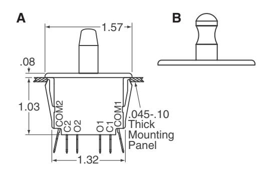

Fig. 13

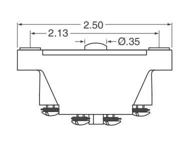

Fig. 14

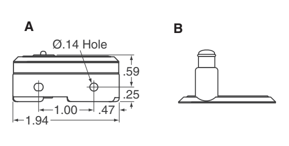

Fig. 15

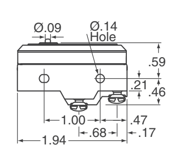

Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
1A	5	SPDT	Pin Plunger	Solder	480-2307-ND	8.77	6.42	6.01	1SM1
1A	5	SPDT	Pin Plunger	Solder	480-2309-ND	7.30	5.35	5.01	11SM1
1A	5	SPDT	Pin Plunger	Solder	480-2316-ND	13.45	10.30	9.72	411SM1
1A	5	SPDT	Pin Plunger	Turret	480-2308-ND	9.81	7.18	6.73	1SM1-T
1A	5	SPDT	Pin Plunger	Turret	480-2310-ND	6.61	4.84	4.53	11SM1-T
1A	5	SPDT	Pin Plunger	Turret	480-2312-ND	5.91	4.05	3.65	11SM3-T
1A	1	SPDT	Pin Plunger	Turret	480-2313-ND	13.15	10.07	9.51	11SM23-T
1A	5	SPDT	Pin Plunger	Turret	480-2314-ND	11.95	8.74	8.19	11SM401-T
1A	5	SPDT	Pin Plunger	PCB	480-3010-ND	7.06	4.84	4.35	11SM1-H2
1A	5	SPDT	Pin Plunger	Dbl. Turret	480-2311-ND	6.63	4.86	4.55	11SM1-T2
1A	5	SPDT	Pin Plunger	Screw	480-3011-ND	8.14	5.96	5.58	11SM244
1A	5	SPDT	Pin Plunger	Turret	480-3012-ND	7.77	5.69	5.32	11SM244-T
1A	5	SPDT	Pin Plunger	Solder Pin	480-3013-ND	6.80	4.66	4.19	11SM701-H58
1A	5	SPDT	Pin Plunger	Dbl. Turret	480-3016-ND	10.15	7.43	6.95	21SM284-T2
1A	11	SPDT	Pin Plunger	Dbl. Turret	480-2315-ND	7.20	5.27	4.93	41SM1-T2
1B	5	SPDT	Straight Lever	Solder	480-2326-ND	9.18	6.72	6.29	111SM1
1B	5	SPDT	Straight Lever	Turret	480-2327-ND	9.08	6.64	6.22	111SM1-T
1C	5	SPDT	Roller Lever	Solder	480-2328-ND	10.76	7.88	7.37	111SM2
1C	5	SPDT	Roller Lever	Turret	480-2329-ND	10.04	7.35	6.88	111SM2-T
1C	1	SPDT	Roller Lever	Turret	480-2330-ND	18.89	14.46	13.66	111SM23-T
1C	5	SPDT	Roller Lever	QC	480-3009-ND	9.24	6.76	6.33	111SM602-H4
2A	5	SPDT	Straight Lever	Turret	480-2317-ND	8.29	6.07	5.68	311SM1-T
2A	5	SPDT	Straight Lever	Turret	480-2319-ND	7.17	5.25	4.91	311SM2-T
2A	1	SPDT	Straight Lever	Turret	480-2318-ND	13.17	10.08	9.53	311SM23-T
2A	5	SPDT	Straight Lever	Turret	480-2320-ND	7.61	5.57	5.22	311SM3-T
2A	4	SPDT	Straight Lever	Turret	480-2321-ND	7.46	5.46	5.12	311SM703-T
2B	5	SPDT	Simulated Roller	Turret	480-2322-ND	7.66	5.60	5.25	311SM4-T
2B	5	SPDT	Simulated Roller	Turret	480-2323-ND	6.66	4.88	4.57	311SM5-T
2B	4	SPDT	Simulated Roller	Turret	480-3020-ND	7.11	5.21	4.87	311SM704-T
2C	5	SPDT	Roller Lever	Solder	480-3018-ND	7.67	5.62	5.26	311SM6
2C	5	SPDT	Roller Lever	Turret	480-2324-ND	8.58	6.28	5.88	311SM6-T
2C	4	SPDT	Roller Lever	Turret	480-2325-ND	7.91	5.79	5.42	311SM706-T
2D	4	SPDT	Straight Lever	Turret	480-3019-ND	6.92	5.07	4.74	311SM702-T
2E	4	SPDT	Simulated Roller	Turret	480-3021-ND	8.54	6.25	5.85	311SM705-T
3	7	SPDT	Pin Plunger	QC	480-3015-ND	12.53	9.60	9.06	1SX1-H58
3	7	SPDT	Pin Plunger	Turret	480-2297-ND	12.53	9.60	9.06	1SX1-T
3	7	SPDT	Pin Plunger	Turret	480-2299-ND	14.29	10.94	10.33	1SX48-T
3	7	SPDT	Pin Plunger	Turret	480-2298-ND	13.55	10.38	9.80	2SX1-T
3	7	SPDT	Pin Plunger	Turret	480-3025-ND	18.76	14.36	13.57	4SX36-T
3	3	SPDT	Pin Plunger	Turret	480-2296-ND	12.50	9.57	9.04	11SX1-T
3	5	SPDT	Pin Plunger	Turret	480-2300-ND	12.10	8.86	8.29	11SX21-T
3	1	SPDT	Pin Plunger	Turret	480-2295-ND	20.49	15.68	14.81	12SX1-T

Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
3	7	SPDT	Pin Plunger	Turret	480-2301-ND	8.91	6.52	6.11	21SX39-T
3	7	SPDT	Pin Plunger	Dbl. Turret	480-3017-ND	8.28	6.06	5.67	21SX39-T2
4A	5	SPDT	Straight Lever	Turret	480-2302-ND	13.81	10.58	9.99	311SX1-T
4A	5	SPDT	Straight Lever	Turret	480-2303-ND	13.43	10.29	9.71	311SX2-T
4A	5	SPDT	Straight Lever	Turret	480-2304-ND	14.31	10.96	10.35	311SX3-T
4B	5	SPDT	Simulated Roller	Turret	480-2305-ND	12.63	9.67	9.14	311SX4-T
4B	5	SPDT	Simulated Roller	Turret	480-2306-ND	13.55	10.38	9.80	311SX5-T
4B	1	SPDT	Simulated Roller	Turret	480-3023-ND	19.43	14.88	14.05	313SX4-T
4C	1	SPDT	Roller Lever	Turret	480-3022-ND	21.82	16.71	15.78	313SX30-T
4D	1	SPDT	Simulated Roller	Turret	480-3024-ND	18.79	14.39	13.59	313SX5-T
5	15	SPDT	Rod	Screw	480-2484-ND	63.16	52.33	50.07	1AC2
6A	15	SPDT	Rod	Screw	480-2483-ND	46.43	36.94	34.61	13AC1
6B	10	SPDT	Rod	Screw	480-2488-ND	51.06	40.62	38.06	2AC59
6B	15	SPDT	Rod	Screw	480-2489-ND	98.96	83.79	80.53	2AC6
6B	15	SPDT	Rod	Screw	480-2490-ND	37.57	29.89	28.00	3AC6
7	15	SPDT	Rod	Screw	480-2485-ND	32.57	25.91	24.28	22AC1
7	15	SPDT	Rod	Screw	480-2486-ND	32.17	25.59	23.98	22AC2
7	15	SPDT	Rod	Screw	480-2487-ND	29.73	23.65	22.16	23AC2
8	5	SPDT	Rod	QC	480-2873-ND	24.98	19.87	18.62	23AC80
8	5	SPDT	Rod	QC	480-2875-ND	45.58	36.26	33.97	23AC82
9	5	SPDT	Rod	QC	480-2874-ND	53.79	44.56	42.64	23AC81
10	10	SPDT	Concave Plunger	QC	480-2491-ND	7.19	4.93	4.43	1DM18
10	10	SPDT	Convex Plunger	QC	480-2492-ND	7.86	5.76	5.39	1DM21
10	10	SPDT	Finger Grip	QC	480-2493-ND	7.58	5.55	5.20	1DM401
11A	10	SPDT	Pin Plunger	QC	480-3202-ND	7.84	5.74	5.37	1DM57
11B	1	SPDT	Finger Grip	QC	480-3201-ND	8.74	6.40	5.99	1DM437
12A	10	DPDT	Bullet Nose	QC	480-2494-ND	11.10	8.13	7.61	2DM1
12B	10	DPDT	Finger Grip	QC	480-2495-ND	11.57	8.47	7.93	2DM409
13	15	DPDT-DB	Pin Plunger	Screw	480-2465-ND	31.44	25.01	23.43	3MN1
13	15	DPDT-DB	Pin Plunger	Screw	480-2466-ND	49.96	39.74	37.23	3MN6
14A	10	SPDT	Plunger	Solder	480-2416-ND	14.56	11.15	10.53	BZ-R21
14A	15	SPDT	Plunger	Solder	480-2417-ND	8.83	6.46	6.05	BZ-2R
14A	20	SPDT	Plunger	Screw	480-2418-ND	10.04	7.35	6.88	BA-2R
14B	15	SPDT	Plunger	Solder	480-2431-ND	15.74	12.05	11.38	BZ-2RQ
14B	15	SPDT	Plunger	Solder	480-2432-ND	18.28	14.00	13.22	BZ-2RQ1
14B	15	SPDT	Plunger	Solder	480-3217-ND	15.69	12.02	11.35	BZ-2RS
15	15	SPDT	Pin Plunger	Screw	480-2425-ND	18.46	14.14	13.35	BZ-3AT
15	25	SPDT	Pin Plunger	Screw	480-2426-ND	21.27	16.28	15.38	BA-3ST
16A	20	SPDT	Pin Plunger	Screw	480-2420-ND	11.36	8.70	8.22	BA-2R-A2
16A	20	SPDT	Pin Plunger	Screw	480-2421-ND	12.49	9.14	8.55	BA-2R-A4

‡ With Plunger Seal

(Continued)

Fig. 16

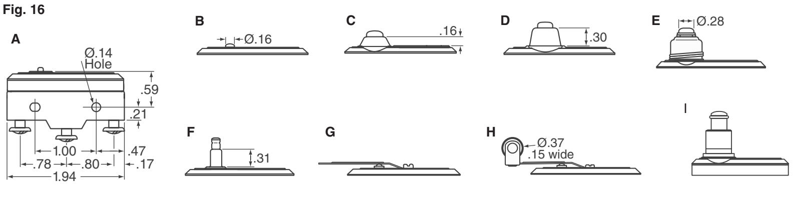

Fig. 17

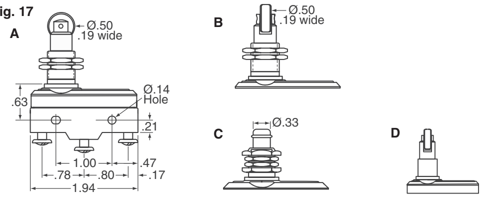

Fig. 18

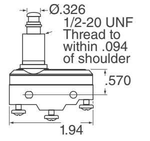

Fig. 19

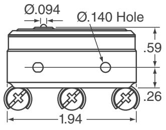

Fig. 20

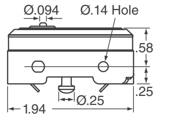

Fig. 21

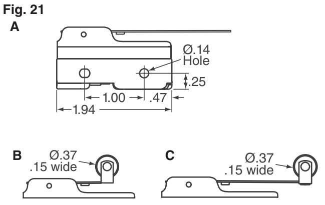

Fig. 22

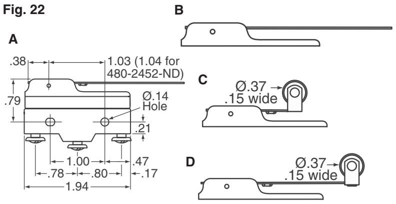

Fig. 23

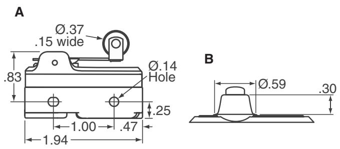

Fig. 24

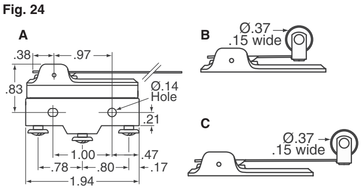

Fig. 25

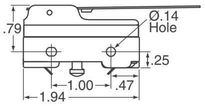

Fig. 26

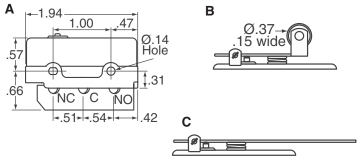

Fig. 27

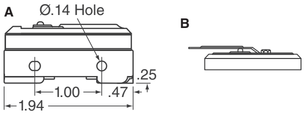

Fig. 28

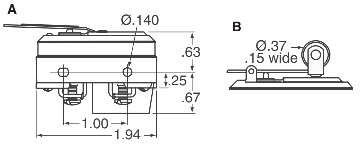

Fig. 29

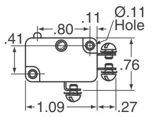

Fig. 30

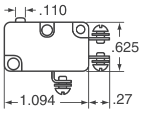

Fig. 31

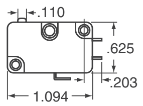

Fig. 32

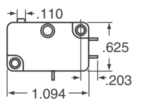

Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
16A	15	SPDT	Pin Plunger	Screw	480-2419-ND	9.87	7.22	6.76	BZ-2R-A2
16A	10	SPDT	Pin Plunger	Screw	480-3219-ND	14.10	10.79	10.19	BZ-R21-A2
16A	15	SPDT	Pin Plunger‡	Screw	480-3209-ND	11.94	9.14	8.63	BZ-2R5551-A2
16A	1	SPDT	Pin Plunger	Screw	480-2423-ND	12.34	9.45	8.92	BZ-2R72-A2
16A	15	SPDT	Pin Plunger	Screw	480-2415-ND	11.83	8.66	8.11	BZ-R-A2
16A	10	SPDT	Pin Plunger	Screw	480-2422-ND	12.22	9.36	8.84	BZ-R88-A2
16B	15	SPDT	Pin Plunger‡	Screw	480-2424-ND	17.64	13.51	12.76	BZ-2R55-A2-S
16C	15	SPDT	Pin Plunger	Screw	480-2427-ND	12.06	9.23	8.72	BZ-2RD-A2
16D	20	SPDT	Pin Plunger	Screw	480-2428-ND	11.91	9.12	8.62	BA-2RB-A2
16D	25	SPDT	Pin Plunger	Screw	480-3207-ND	14.24	10.90	10.30	BE-2RB-A4
16E	15	SPDT	Pin Plunger‡	Screw	480-2429-ND	21.49	17.10	16.02	BZ-2RDS-A2-S
16F	15	SPDT	Pin Plunger	Screw	480-2430-ND	12.49	9.56	9.03	BZ-2RS-A2
16G	15	SPDT	Straight Lever	Screw	480-2456-ND	12.99	9.95	9.40	BZ-2RL-A2
16H	15	SPDT	Roller Lever	Screw	480-2457-ND	15.17	11.61	10.97	BZ-2RL2-A2
16H	20	SPDT	Roller Lever	Screw	480-3205-ND	16.16	12.37	11.69	BA-2RL2-A2
16I	15	SPDT	Plunger	Screw	480-3215-ND	21.81	16.70	15.77	BZ-2RQ66
17A	15	SPDT	Roller Plunger	Screw	480-2436-ND	25.94	20.64	19.33	BZ-2RQ18-A2
17B	15	SPDT	Roller Plunger	Screw	480-2437-ND	28.01	22.29	20.88	BZ-2RQ181-A2
17C	15	SPDT	Plunger	Screw	480-2433-ND	11.63	8.90	8.41	BZ-2RQ1-A2
17C	15	SPDT	Plunger	Screw	480-2439-ND	18.02	13.80	13.03	BZ-3RQ1-A2
17C	20	SPDT	Plunger	Screw	480-2438-ND	17.69	13.54	12.79	BA-2RQ1-A2
17C	15	SPDT	Plunger	Screw	480-2434-ND	19.29	14.76	13.95	BZ-2RQ1T
17C	15	SPDT	Plunger	Screw	480-2435-ND	20.95	16.04	15.15	BZ-2RN-A2
17D	15	SPDT	Roller Plunger	Screw	480-3216-ND	30.37	24.16	22.64	BZ-2RQ785
18	15	SPDT	Plunger	Screw	480-3211-ND	25.34	20.16	18.89	BZ-2RN702
18	15	SPDT	Plunger	Screw	480-3212-ND	26.72	21.26	19.92	BZ-2RN770
19	15	SPDT	Pin Plunger	Screw	480-3214-ND	11.78	8.62	8.07	BZ-2R-P4
20	15	SPDT	Pin Plunger	Solder	480-3220-ND	18.34	14.04	13.26	BZ-RX
21A	15	SPDT	Straight Lever	Solder	480-2440-ND	11.89	9.10	8.60	BZ-2RW80
21A	20	SPDT	Straight Lever	Solder	480-3206-ND	13.70	10.49	9.91	BA-2RV
21B	15	SPDT	Roller Lever	Solder	480-2450-ND	13.37	10.24	9.67	BZ-2RW822
21C	15	SPDT	Roller Lever	Solder	480-2447-ND	14.90	11.41	10.77	BZ-2RW82
22A	15	SPDT	Straight Lever	Screw	480-2441-ND	11.65	8.53	7.98	BZ-2RW80-A2
22A	15	SPDT	Straight Lever	Screw	480-2444-ND	12.44	9.11	8.53	BZ-2RW863-A2
22B	15	SPDT	Straight Lever	Screw	480-2442-ND	12.03	8.80	8.24	BZ-2RW84-A2
22B	15	SPDT	Straight Lever	Screw	480-2443-ND	16.08	12.31	11.63	BZ-2RW824-A2
22C	15	SPDT	Roller Lever‡	Screw	480-2452-ND	23.34	18.57	17.40	BZ-2RW82255-A2-S
22C	15	SPDT	Roller Lever	Screw	480-3218-ND	12.93	9.90	9.35	BZ-2RW82276T
22C	15	SPDT	Roller Lever	Screw	480-2451-ND	11.74	8.99	8.49	BZ-2RW822-A2
22D	15	SPDT	Roller Lever	Screw	480-2448-ND	13.57	10.39	9.81	BZ-2RW82-A2
23A	20	SPDT	Roller Lever	Solder	480-2453-ND	16.87	12.92	12.20	BA-2RV22
23B	20	SPDT	Pin Plunger	Solder	480-3203-ND	12.23	9.37	8.85	BA-2RB
24A	20	SPDT	Straight Lever	Screw	480-2445-ND	13.08	10.01	9.46	BA-2RV-A2
24A	20	SPDT	Straight Lever	Screw	480-2446-ND	14.90	11.41	10.78	BA-2RV6-A2
24A	25	SPDT	Straight Lever	Screw	480-3208-ND	14.72	11.27	10.65	BE-2RV-A4

Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
24B	20	SPDT	Roller Lever	Screw	480-2454-ND	14.95	11.45	10.81	BA-2RV22-A2
24C	20	SPDT	Roller Lever	Screw	480-2449-ND	16.80	12.87	12.15	BA-2RV2-A2
25	15	SPDT	Straight Lever	Solder	480-2455-ND	18.55	14.20	13.41	BZ-RW80X
26A	10	DPDT	Pin Plunger	Screw	480-2458-ND	54.68	45.30	43.34	DT-2R-A7
26B	10	DPDT	Roller Lever	Screw	480-2460-ND	64.01	53.03	50.74	DT-2RV22-A7
26C	10	DPDT	Straight Lever	Screw	480-2459-ND	91.71	77.66	74.64	DT-2RV-A7
27A	10	SPDT	Pin Plunger	Solder	480-2461-ND	67.34	55.78	53.38	MT-4R
27B	20	SPDT	Straight Lever	Solder	480-3204-ND	14.32	10.97	10.36	BA-2RL
28A	10	SPDT	Leaf	Screw	480-2462-ND	83.20	68.92	65.95	MT-4RL-A28
28A	10	SPDT	Straight Lever	Screw	480-2463-ND	89.60	74.22	71.02	MT-4RV-A28
28B	10	SPDT	Roller Lever	Screw	480-2464-ND	94.79	80.26	77.14	MT-4RV22-A28
29	10	SPDT	Plunger	Screw	480-2408-ND	9.81	7.18	6.73	V3-1001
29	10	SPDT	Plunger	Screw	480-2409-ND	44.07	35.06	32.85	V3-245
29	11	SPDT	Plunger	Screw	480-2407-ND	19.57	14.98	14.15	V3-129
30	15	SPDT	Plunger	Screw	480-2877-ND	7.83	5.73	5.37	V3-1
30	11	SPDT	Plunger	Screw	480-2878-ND	7.38	5.05	4.55	V3-101
31	10	SPDT	Plunger	Solder	480-2879-ND	3.16	2.06	1.87	V3-1113
32	11	SPDT	Plunger	Solder	480-2880-ND	6.41	4.39	3.95	V3-115
32	15	SPDT	Plunger	Solder	480-2882-ND	6.06	4.15	3.74	V3-22
33	11	SPDT	Plunger	Solder	480-2881-ND	6.32	4.33	3.90	V3-119
33	10	SPDT	Plunger	Solder	480-2883-ND	9.20	6.74	6.31	V3-3057
33	15	SPDT	Plunger	Solder	480-2884-ND	6.81	4.99	4.67	V3-3059
34	15	SPDT	Plunger	Solder	480-2404-ND	6.00	4.11	3.70	V3-15
35	15	SPDT	Plunger	Solder	480-2405-ND	6.10	4.18	3.76	V3-19
35	15	SPDT	Plunger	Solder	480-2406-ND	6.84	4.69	4.22	V3-19M
36	11	SPDT	Roller Lever	Screw	480-2885-ND	9.56	7.00	6.55	V3L-111
37	10	SPDT	Straight Lever	Solder	480-2887-ND	24.25	19.30	18.08	V3L-1229
38	15	SPDT	Straight Lever	Solder	480-2888-ND	9.16	6.70	6.27	V3L-3296
39	15	SPDT	Roller Lever	Solder	480-2889-ND	8.59	6.28	5.88	V3L-3339
40	15	SPDT	Simulated Roller	Solder	480-2890-ND	7.70	5.64	5.28	V3L-84
41A	0.1	SPDT	Pin Plunger	QC	480-2359-ND	5.34	3.66	3.29	V7-1S17D8
41A	0.1	SPDT	Pin Plunger	QC	480-2360-ND	3.75	2.57	2.31	V7-3S17E9
41A	3	SPDT	Pin Plunger	QC	480-2361-ND	3.86	2.65	2.38	V7-5F17D8
41A	1	SPDT	Pin Plunger	QC	480-3189-ND	6.42	4.70	4.40	V7-1D10D8
41A	5	SPDT	Pin Plunger	QC	480-2362-ND	3.96	2.71	2.44	V7-4A17D8
41A	10	SPDT	Pin Plunger	QC	480-2363-ND	3.75	2.57	2.31	V7-3E19E9
41A	10	SPDT	Pin Plunger	QC	480-3194-ND	3.75	2.57	2.31	V7-3E17D8
41A	11	SPDT	Pin Plunger	QC	480-3193-ND	4.23	2.90	2.61	V7-2B17D8
41A	11	SPDT	Pin Plunger	QC	480-3181-ND	3.62	2.48	2.23	V7-1B17D8
41A	11	SPDT	Pin Plunger	QC	480-2364-ND	3.59	2.46	2.22	V7-2B17E9
41A	11	SPST-NO	Pin Plunger	QC	480-2365-ND	3.95	2.71	2.44	V7-2B27E9
41A	11	SPST-NC	Pin Plunger	QC	480-2366-ND	3.64	2.49	2.24	V7-2B37E9
41A	11	SPDT	Pin Plunger	QC	480-2367-ND	4.19	2.87	2.59	V7-6B19D8

‡ With Plunger Seal

(Continued)

Fig. 33

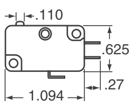

Fig. 34

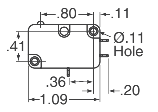

Fig. 35

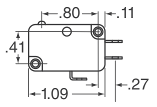

Fig. 36

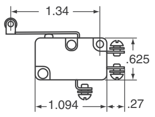

Fig. 37

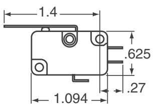

Fig. 38

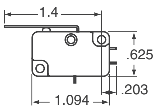

Fig. 39

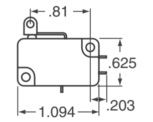

Fig. 40

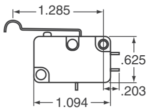

Fig. 41

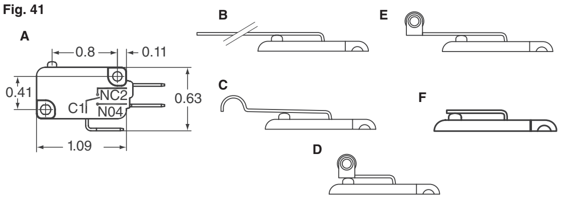

Fig. 42

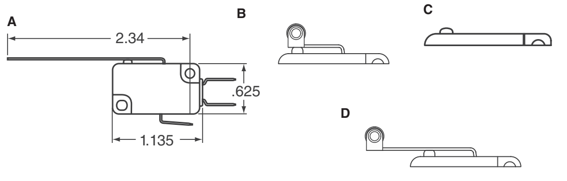

Fig. 43

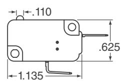

Fig. 44

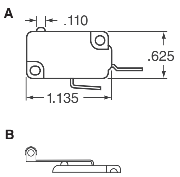

Fig. 45

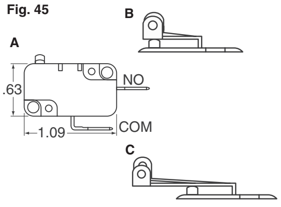

Fig. 46

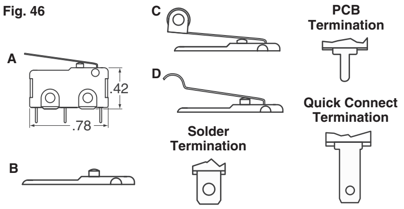

Fig. 47

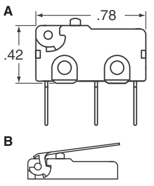

Fig. 48

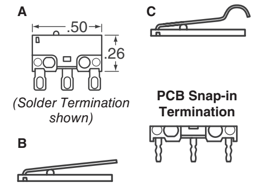

Fig. 49

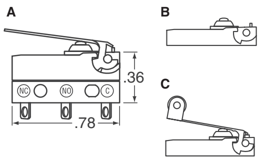

Fig. 50

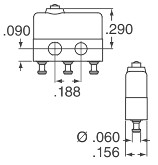

Fig. 51

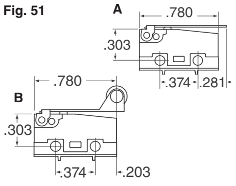

Fig. 52

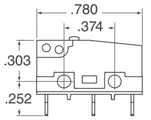

Fig. 53

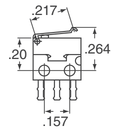

Fig. 54

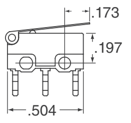

Fig. 55

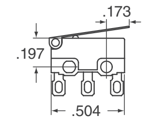

Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
41A	11	SPDT	Pin Plunger	QC	480-2368-ND	3.85	2.64	2.38	V7-7B17D8
41A	15.1	SPDT	Pin Plunger	QC	480-3184-ND	4.18	2.86	2.58	V7-1C17D8
41A	15	SPDT	Pin Plunger	QC	480-2369-ND	4.32	2.96	2.66	V7-1C17E9
41A	21	SPDT	Pin Plunger	QC	480-2370-ND	4.20	2.88	2.59	V7-1V19E9
41A	25	SPDT	Pin Plunger	QC	480-2371-ND	3.99	2.74	2.46	V7-1Z19E9
41A	16	SPDT	Pin Plunger	QC	480-2991-ND	2.65	1.72	1.57	V15H16-CZ100-K
41A	16	SPDT	Pin Plunger	QC	480-2986-ND	2.03	1.32	1.20	V15T16-CZ100-K
41A	16	SPDT	Pin Plunger	QC	480-3002-ND	2.65	1.72	1.57	V15H16-CZ300-K
41A	16	SPDT	Pin Plunger	QC	480-2997-ND	2.13	1.39	1.26	V15T16-CZ300-K
41A	26	SPDT	Pin Plunger	QC	480-2996-ND	3.00	1.95	1.77	V15T26-CZ300-K
41B	0.1	SPDT	Straight Lever	QC	480-2373-ND	5.91	4.05	3.64	V7-1S17D8-022
41B	0.1	SPDT	Straight Lever	QC	480-3196-ND	4.18	2.87	2.58	V7-3S17D8-022
41B	5	SPDT	Straight Lever	QC	480-2378-ND	3.60	2.47	2.22	V7-1A17D8-048
41B	11	SPDT	Straight Lever	QC	480-2375-ND	4.29	2.94	2.64	V7-1B17D8-022
41B	11	SPDT	Straight Lever	QC	480-2379-ND	4.37	3.00	2.70	V7-1B17D8-048
41B	15	SPDT	Straight Lever	QC	480-2372-ND	5.18	3.55	3.19	V7-1C17D8-002
41B	15	SPDT	Straight Lever	QC	480-2377-ND	5.17	3.54	3.19	V7-1C17D8-022
41B	15	SPDT	Straight Lever	QC	480-2381-ND	5.18	3.55	3.19	V7-1C17D8-048
41B	15	SPDT	Straight Lever	QC	480-3197-ND	4.18	2.87	2.58	V7-6C17D8-057
41B	11	SPDT	Straight Lever	QC	480-3199-ND	4.04	2.77	2.49	V7-7B17D8-048
41B	11	SPDT	Straight Lever	QC	480-2376-ND	4.25	2.91	2.62	V7-2B17D8-022
41B	11	SPDT	Straight Lever	QC	480-2380-ND	4.25	2.91	2.62	V7-2B17D8-048
41B	10	SPDT	Straight Lever	QC	480-2394-ND	3.88	2.66	2.39	V7-3E17D8-148
41B	3	SPDT	Paddle	QC	480-2395-ND	10.55	7.72	7.23	V7-5F17D8-336
41B	5	SPDT	Straight Lever	QC	480-3179-ND	5.26	3.60	3.24	V7-1A17D8-057
41B	11	SPDT	Straight Lever	QC	480-3182-ND	4.37	3.00	2.70	V7-1B19D8-022
41B	11	SPDT	Straight Lever	QC	480-2374-ND	4.87	3.33	3.00	V7-6B19E9-022
41B	16	SPDT	Straight Lever	QC	480-2992-ND	2.68	1.74	1.59	V15H16-CZ100A02-K
41B	16	SPDT	Straight Lever	QC	480-2987-ND	2.06	1.34	1.22	V15T16-CZ100A02-K
41B	16	SPDT	Straight Lever	QC	480-3003-ND	2.68	1.74	1.59	V15H16-CZ300A02-K
41B	16	SPDT	Straight Lever	QC	480-2998-ND	2.06	1.34	1.22	V15T16-CZ300A02-K
41B	16	SPDT	Long Str. Lever	QC	480-2993-ND	2.78	1.81	1.65	V15H16-CZ100A03-K
41B	16	SPDT	Long Str. Lever	QC	480-2988-ND	2.08	1.36	1.23	V15T16-CZ100A03-K
41B	16	SPDT	Long Str. Lever	QC	480-3004-ND	2.70	1.76	1.60	V15H16-CZ300A03-K
41B	16	SPDT	Long Str. Lever	QC	480-2999-ND	2.08	1.36	1.23	V15T16-CZ300A03-K
41C	0.1	SPDT	Simulated Roller	QC	480-2382-ND	5.85	4.01	3.61	V7-1S17D8-263
41C	11	SPDT	Simulated Roller	QC	480-2383-ND	5.16	3.54	3.18	V7-1B17D8-263
41C	15	SPDT	Simulated Roller	QC	480-2384-ND	5.18	3.55	3.19	V7-1C17D8-263
41C	15	SPDT	Simulated Roller	QC	480-2385-ND	4.18	2.87	2.58	V7-6C17D8-263
41C	5	SPDT	Simulated Roller	QC	480-2891-ND	4.16	2.85	2.56	V7-7H15D8-263-1
41D	0.1	SPDT	Roller Lever	QC	480-2386-ND	5.41	3.70	3.33	V7-2S17D8-201
41D	5	SPDT	Roller Lever	QC	480-2391-ND	4.04	2.77	2.49	V7-2A17D8-207
41D	11	SPDT	Roller Lever	QC	480-2388-ND	4.25	2.91	2.62	V7-2B17D8-201
41D	11	SPDT	Roller Lever	QC	480-2392-ND	4.25	2.91	2.62	V7-2B17D8-207
41D	11	SPDT	Roller Lever	QC	480-2387-ND	4.04	2.77	2.49	V7-7B17D8-201
41D	15	SPDT	Roller Lever	QC	480-2389-ND	5.18	3.55	3.19	V7-1C17D8-201
41D	15	SPDT	Roller Lever	QC	480-2393-ND	5.17	3.54	3.19	V7-1C17D8-207
41D	1	SPDT	Roller Lever	QC	480-2390-ND	7.05	5.17	4.84	V7-7D17D8-207
41D	16	SPDT	Roller Lever	QC	480-2994-ND	2.73	1.78	1.62	V15H16-CZ100A05-K
41D	16	SPDT	Roller Lever	QC	480-2989-ND	2.12	1.38	1.25	V15T16-CZ100A05-K
41D	16	SPDT	Roller Lever	QC	480-3005-ND	2.73	1.78	1.62	V15H16-CZ300A05-K
41D	16	SPDT	Roller Lever	QC	480-3000-ND	2.12	1.38	1.25	V15T16-CZ300A05-K
41E	16	SPDT	Long Roller Lever	QC	480-2995-ND	2.75	1.79	1.63	V15H16-CZ100A06-K
41E	16	SPDT	Long Roller Lever	QC	480-2990-ND	2.13	1.39	1.26	V15T16-CZ100A06-K
41E	16	SPDT	Long Roller Lever	QC	480-3006-ND	2.75	1.79	1.63	V15H16-CZ300A06-K
41E	16	SPDT	Long Roller Lever	QC	480-3001-ND	2.13	1.39	1.26	V15T16-CZ300A06-K
41F	15	SPDT	Straight Lever	QC	480-3198-ND	4.18	2.87	2.58	V7-6C18D8-002
42A	10	SPDT	Straight Lever	QC	480-3195-ND	3.88	2.66	2.39	V7-3E17E9-022
42A	15	SPDT	Straight Lever	QC	480-2892-ND	6.40	4.38	3.94	V7-9W1AE9-048
42A	21	SPDT	Straight Lever	QC	480-3190-ND	4.45	3.05	2.75	V7-1V19E9-048
42B	15	SPDT	Roller Lever	QC	480-3185-ND	4.55	3.12	2.81	V7-1C17E9-201
42C	11	SPDT	Pin Plunger	QC	480-3200-ND	3.85	2.64	2.38	V7-7B19E9
42D	15	SPDT	Roller Lever	QC	480-3186-ND	4.55	3.12	2.81	V7-1C17E9-207
43	11	SPNC	Pin Plunger	QC	480-3183-ND	3.96	2.71	2.44	V7-1B37D8
43	15.1	SPNC	Pin Plunger	QC	480-3188-ND	3.77	2.59	2.33	V7-1C37D8
44A	15.1	SPNO	Pin Plunger	QC	480-3187-ND	3.75	2.57	2.31	V7-1C27E9
44A	21	SPNO	Pin Plunger	QC	480-3191-ND	3.79	2.60	2.34	V7-1V29E9
44A	15	SPST-NO	Pin Plunger	QC	480-2893-ND	6.20	4.25	3.82	V7-9W2AE9
44A	25	SPNO	Pin Plunger	QC	480-3192-ND	4.11	2.82	2.53	V7-1Z29E9
44B	5	SPNO	Roller Lever	QC	480-3180-ND	4.33	2.97	2.67	V7-1A27D8-207
45A	10	SPDT	Pin Plunger	QC	480-2396-ND	3.21	2.20	1.98	V9-11S43D800
45A	16	SPST-NO	Pin Plunger	QC	480-2397-ND	3.27	2.24	2.02	V9-16S23D800
45A	20	SPST-NO	Pin Plunger	QC	480-2399-ND	3.39	2.32	2.09	V9-20S23D900
45A	20	SPDT	Pin Plunger	QC	480-2400-ND	3.44	2.36	2.12	V9-20S43D900
45A	25	SPST-NO	Pin Plunger	QC	480-2401-ND	3.50	2.40	2.16	V9-25N23D900
45A	25	SPDT	Pin Plunger	QC	480-2402-ND	3.50	2.40	2.16	V9-25S43D800
45B	16	SPDT	Roller Lever	QC	480-2398-ND	3.56	2.44	2.19	V9-16S43D905A
45C	25	SPST-NO	Roller Lever	QC	480-2403-ND	3.67	2.52	2.27	V9-25S43D906A
46A	5	SPDT	Straight Lever	Solder	480-2349-ND	2.74	1.78	1.62	ZM50E10C01
46B	10.1	SPDT	Pin Plunger	PCB	480-2348-ND	2.36	1.54	1.40	ZM90G20A01
46B	0.1	SPDT	Pin Plunger	QC	480-2344-ND	3.09	2.01	1.83	ZM10B70A01
46B	5	SPDT	Pin Plunger	QC	480-2346-ND	2.40	1.57	1.42	ZM50E70A01
46B	0.1	SPDT	Pin Plunger	Solder	480-2345-ND	3.09	2.01	1.83	ZM10E10A01
46B	5	SPDT	Pin Plunger	Solder	480-2347-ND	2.40	1.57	1.42	ZM50E10A01
46C	10.1	SPDT	Roller Lever	PCB	480-2351-ND	2.82	1.83	1.67	ZM90G20F01
46D	5	SPDT	Simulated Roller	Solder	480-2350-ND	2.74	1.78	1.62	ZM50E10E01
47A	0.1	SPDT	Pin Plunger	QC	480-2352-ND	3.43	2.23	2.03	ZV10B70A01
47A	6	SPDT	Pin Plunger	Solder	480-2353-ND	2.66	1.73	1.57	ZV50E10A01

‡ With Plunger Seal

(Continued)

Fig. 56
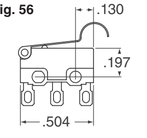

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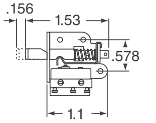

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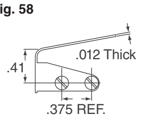

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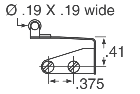

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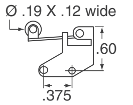

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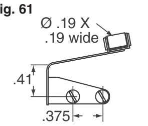

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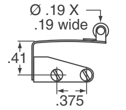

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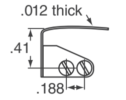

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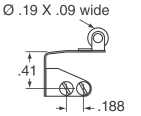

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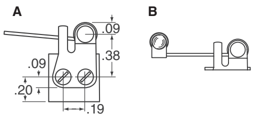

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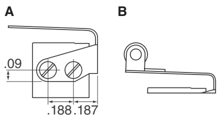

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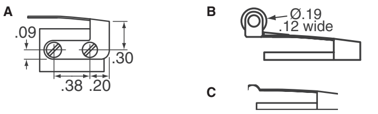

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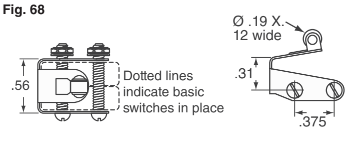

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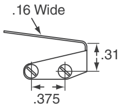

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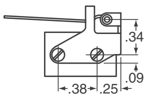

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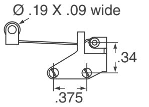

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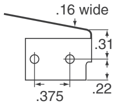

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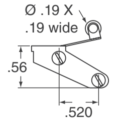

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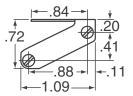

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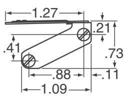

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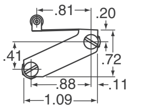

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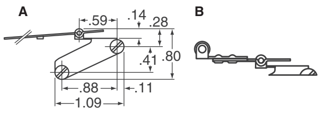

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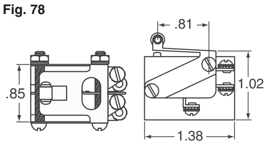

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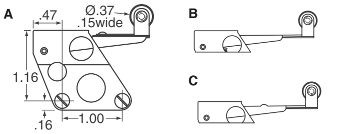

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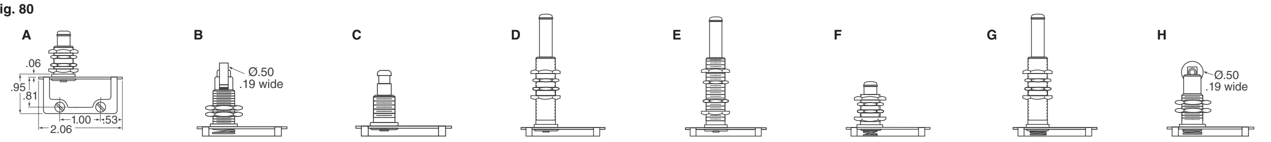

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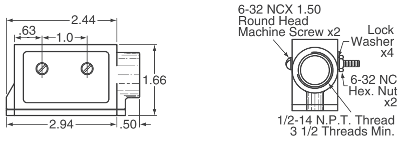
2.44
.63
1.0
1.66
2.94
.50
6-32 NCX 1.50 Round Head Machine Screw x2
Lock Washer x4
6-32 NC Hex. Nut x2
1/2-14 N.P.T. Thread 3 1/2 Threads Min.

Fig. 82
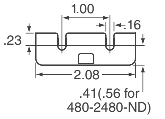

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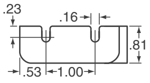

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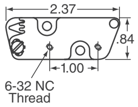

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Fig.	Current Rating (A)	Circuit	Actuator Type	Termination	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
47B	6	SPDT	Straight Lever	Solder	480-2354-ND	3.01	1.96	1.78	ZV50E10B01
47B	6	SPDT	Straight Lever	QC	480-2355-ND	3.01	1.96	1.78	ZV50E70C01
48A	0.1	SPDT	Pin Plunger	Solder	480-2339-ND	3.09	2.01	1.83	ZX10E10A01
48A	3	SPDT	Pin Plunger	PCB Snap-In	480-2340-ND	2.40	1.57	1.42	ZX40E30A01
48B	0.1	SPDT	Straight Lever	Solder	480-2341-ND	3.43	2.23	2.03	ZX10E10C01
48B	3	SPDT	Straight Lever	Solder	480-2342-ND	2.74	1.78	1.62	ZX40E10C01
48C	3	SPDT	Simulated Roller	Solder	480-2343-ND	1.75	1.14	1.04	ZX40E10E01
49A	0.1	SPDT	Straight Lever	Solder	480-2356-ND	8.38	6.13	5.74	ZW10E15CD1
49B	5	SPDT	Pin Plunger	Solder Angled	480-2357-ND	7.98	5.84	5.47	ZW50F15AD1
49C	0.1	SPDT	Roller Lever	Cable Exit	480-2358-ND	12.10	9.27	8.75	ZW10E90FW1
50	7	SPDT	Pin Plunger	Turret	480-3026-ND	12.97	9.93	9.38	91SX39-T
51A	5	SPDT	Straight Lever	Solder	480-3045-ND	7.32	5.01	4.51	UM50E10C01
51B	5	SPDT	Roller Lever	QC	480-3047-ND	6.92	5.07	4.74	UM50E70F01
52	5	SPDT	Pin Plunger	QC	480-3046-ND	5.97	4.09	3.68	UM50E70A01
53	0.1	SPDT	Simulated Roller	Solder	480-3048-ND	7.87	5.76	5.39	US10D10E00
54	0.1	SPDT	Straight Lever	Solder	480-3049-ND	6.36	4.36	3.92	UX10E10C01
55	3	SPDT	Straight Lever	Solder	480-3050-ND	5.60	3.84	3.45	UX40E10C01
56	3	SPDT	Simulated Roller	Solder	480-3051-ND	5.60	3.84	3.45	UX40E10E01

‡ With Plunger Seal

Accessories

Fig.	Actuator Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
	Switch Actuators					
57	Plunger Lever	480-3014-ND	22.73	18.09	16.95	17AC1-T
58	Leaf Lever	480-3027-ND	9.42	6.89	6.45	JE-1
59	Roller Lever	480-3028-ND	28.74	22.86	21.42	JE-17
60	Roller Lever	480-3029-ND	41.38	32.92	30.84	JE-21
61	Roller Lever	480-3030-ND	21.66	16.58	15.66	JE-4
62	Roller Lever	480-3031-ND	37.23	29.62	27.75	JE-61
63	Leaf Lever	480-3032-ND	11.85	9.07	8.57	JM-1
64	Roller Lever	480-3033-ND	15.05	11.53	10.89	JM-5
65A	Straight Lever	480-2331-ND	7.88	5.77	5.40	JX-20
65B	Roller Lever	480-2332-ND	13.07	10.01	9.45	JX-25
66A	Straight Lever	480-2333-ND	3.52	2.41	2.17	JX-40
66A	Straight Lever	480-3042-ND	3.88	2.66	2.39	JX-41
66A	Straight Lever	480-3043-ND	3.63	2.49	2.24	JX-44
66B	Roller Lever	480-2334-ND	6.85	5.02	4.70	JX-45
66B	Roller Lever	480-3044-ND	6.35	4.35	3.91	JX-51
67A	Straight Lever	480-2335-ND	4.47	3.06	2.76	JS-2
67B	Roller Lever	480-2336-ND	6.90	5.05	4.73	JS-5
67C	Simulated Roller	480-2337-ND	5.95	4.08	3.67	JS-7
68	Roller Lever	480-3038-ND	11.83	9.06	8.55	JS-31
69	Leaf Lever	480-3034-ND	15.02	11.50	10.87	JS-152
70	Straight Lever	480-2338-ND	7.40	5.07	4.56	JS-220
71	Roller Lever	480-3035-ND	15.18	11.62	10.98	JS-246
71	Roller Lever	480-3037-ND	21.91	17.43	16.33	JS-308
72	Leaf Lever	480-3036-ND	36.13	28.75	26.93	JS-254
73	Roller Lever	480-3040-ND	15.19	11.63	10.99	JT-5
74	Straight Lever	480-2410-ND	5.73	3.92	3.53	JV-1
75	Straight Lever	480-2411-ND	23.19	18.45	17.28	JV-7
76	Roller Lever	480-2413-ND	15.34	11.75	11.10	JV-5
77A	Pivot Lever	480-2412-ND	17.76	13.60	12.85	JV-26
77B	Pivot Lever Roller	480-2414-ND	31.08	24.73	23.17	JV-20
78	Roller Lever	480-2876-ND	25.56	20.34	19.05	JV-82
79A	Roller Lever	480-2467-ND	21.52	16.47	15.56	AD3721R
79B	Roller Lever	480-2468-ND	18.59	14.23	13.44	AD5721R
79C	Roller Lever	480-2469-ND	21.52	16.47	15.56	ADD3721R
80A	Plunger	480-2470-ND	20.66	15.82	14.94	MC2711
80B	Cross Roller Plunger	480-2477-ND	61.49	50.94	48.74	MD3211Q1
80C	Plunger‡	480-2471-ND	41.37	32.91	30.83	MC2711H
80D	Plunger	480-2472-ND	30.77	24.48	22.94	MC7711
80E	Plunger	480-2473-ND	52.45	43.45	41.58	MCA7711
80F	Plunger	480-2474-ND	32.22	25.64	24.02	MCD2711
80G	Plunger	480-2475-ND	53.88	44.64	42.71	MCD7711
80H	Roller Plunger	480-2476-ND	47.11	37.48	35.11	MD3211-Q
	Switch Enclosures					
81	Side Mount for Large Switch	480-2478-ND	29.83	23.73	22.23	3PA1
82	Solder Terminals for Large Switch	480-2479-ND	2.65	1.72	1.57	5PA1
82	Screw Terminals for Large Switch	480-2480-ND	2.47	1.61	1.46	5PA2
83	Auxiliary Actuator for Large Switch	480-2481-ND	7.97	5.83	5.46	5PA3
84	Adjustable Bracket Mount for Large Switch	480-2482-ND	16.31	12.49	11.80	8MA1
—	Insulator	480-3041-ND	1.57	.97	.87	JX-10131

‡ With Plunger Seal

Panasonic Sealed Turquoise Switches

Panasonic Electric Works

ABJ Micro Series Sealed Snap Switches

Features: • Ultra miniature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology and industry first ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive • Agricultural equipment • Outdoor sensing and switching applications

Dimensions in mm

Fig. 1 — Plunger Type

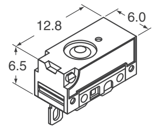

Fig. 2 — Lever Type

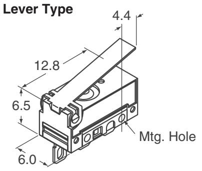

Fig. 3 — Simulated Roller Type

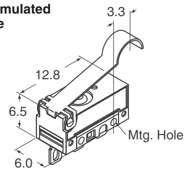

Fig.	Contact Type	Contact Rating (A)	Actuation Force	Terminal Type	Contact Plating	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
1	SPDT	0.1	123gF	Solder	Gold over Silver‡	255-2004-ND	3.82	3.51	3.12	ABJ1410419
	SPDT	0.1	196gF	Solder	Gold over Silver‡	255-2006-ND	3.82	3.51	3.12	ABJ1410619
	SPDT	1.0	123gF	Solder	Silver over Nickel	255-2003-ND	2.77	2.55	2.26	ABJ1410409
	SPDT	2.0	196gF	Solder	Silver over Nickel	255-2005-ND	2.77	2.55	2.26	ABJ1410609
2	SPDT	2.0	64gF	Solder	Silver over Nickel	255-2007-ND	3.16	2.91	2.58	ABJ1412609
3	SPDT	1.0	39gF	Solder	Silver over Nickel	255-2009-ND	3.16	2.91	2.58	ABJ1414409

‡ Gold over silver contact plating - Low level switching from 1mA to 2A power levels

ABS Mini Series Sealed Snap Switches

Features: • Subminiature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology and industry first ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive • Agricultural equipment • Home appliances (vacuum cleaner, air purifier) • Gas cooking ranges

Dimensions in mm

Fig. 1 — Plunger Type

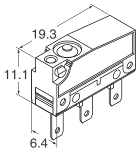

Fig. 2 — Short Lever Type

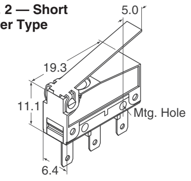

Fig. 3 — Long Lever Type

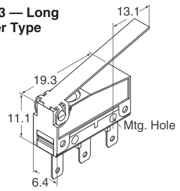

Fig. 4 — Simulated Roller Type

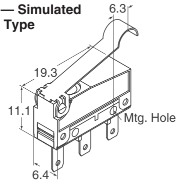

Fig.	Contact Type	Contact Rating (A)	Terminal Type	Actuation Force	Contact Plating	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
1	SPDT	0.1	.110 Quick Connect	147gF	Gold over Silver‡	255-2020-ND	3.82	3.51	3.12	ABS1110519
	SPDT	0.1	Solder	147gF	Gold over Silver‡	255-2028-ND	3.82	3.51	3.12	ABS1410519
	SPDT	0.1	PC Mount	147gF	Gold over Silver‡	255-2032-ND	3.82	3.51	3.12	ABS1510519
	SPDT	0.1	Wire Leads	147gF	Gold over Silver‡	255-2036-ND	10.95	10.06	8.94	ABS1610519
	SPDT	2.0	.110 Quick Connect	147gF	Silver over Nickel	255-2019-ND	2.77	2.55	2.26	ABS1110509
	SPDT	2.0	Solder	147gF	Silver over Nickel	255-2027-ND	2.77	2.55	2.26	ABS1410509
	SPDT	2.0	PC Mount	147gF	Silver over Nickel	255-2031-ND	2.77	2.55	2.26	ABS1510509
2	SPDT	0.1	.110 Quick Connect	54gF	Gold over Silver‡	255-2022-ND	4.53	4.17	3.70	ABS1112519
	SPDT	0.1	PC Mount	54gF	Gold over Silver‡	255-2034-ND	4.53	4.17	3.70	ABS1512519
	SPDT	0.1	Wire Leads	54gF	Gold over Silver‡	255-2038-ND	11.96	10.98	9.76	ABS1612519
	SPDT	2.0	.110 Quick Connect	54gF	Silver over Nickel	255-2021-ND	3.28	3.02	2.68	ABS1112509
	SPDT	2.0	PC Mount	54gF	Silver over Nickel	255-2033-ND	3.28	3.02	2.68	ABS1512509
	SPDT	2.0	Wire Leads	54gF	Silver over Nickel	255-2037-ND	10.19	9.36	8.32	ABS1612509
3	SPDT	0.1	.110 Quick Connect	44gF	Gold over Silver‡	255-2024-ND	4.53	4.17	3.70	ABS1113519
4	SPDT	2.0	.110 Quick Connect	54gF	Silver over Nickel	255-2025-ND	3.28	3.02	2.68	ABS1114509

‡ Gold over silver contact plating - Low level switching from 1mA to 2A power levels

ABV Standard Series Sealed Snap Switches

Features: • Miniature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology, an industry first, and ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive sensing • Agricultural equipment • Industrial equipment • Outdoor applications

Dimensions in mm

Fig. 1 — Plunger Type

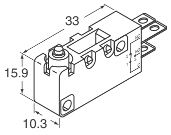

Fig. 2 — Lever Type

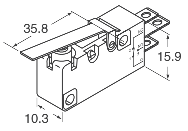

Fig. 3 — Simulated Roller Type

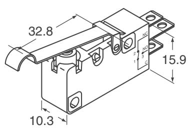

Fig. 4 — Short Roller Type

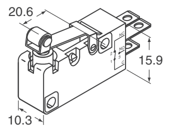

Fig. 5 — Long Roller Type

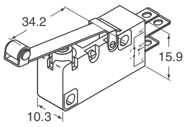

Fig.	Contact Type	Contact Rating (A)	Terminal Type	Contact Plating‡	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
1	SPDT	5	Wire Leads	Gold over Silver	255-2044-ND	12.25	11.25	10.00	ABV1610619
2	SPDT	5	.187 Quick Connect	Gold over Silver	255-2040-ND	6.08	5.58	4.96	ABV1212619
	SPDT	5	Wire Leads	Gold over Silver	255-2045-ND	13.52	12.42	11.04	ABV1612619
3	SPDT	5	.187 Quick Connect	Gold over Silver	255-2041-ND	6.10	5.61	4.98	ABV1214619
4	SPDT	3	.187 Quick Connect	Gold over Silver	255-2391-ND	7.40	6.80	6.04	ABV1215619R
5	SPDT	5	.187 Quick Connect	Gold over Silver	255-2043-ND	7.42	6.82	6.06	ABV1216619
	SPDT	5	Wire Leads	Gold over Silver	255-2048-ND	9.82	9.03	8.02	ABV1616619

‡ Gold over Silver contact plating - Low level switching from 1mA to 5A power levels

Snap Type Switches

UL Recognized and CSA Certified

Fig. 1 – Subminiature, DG Series

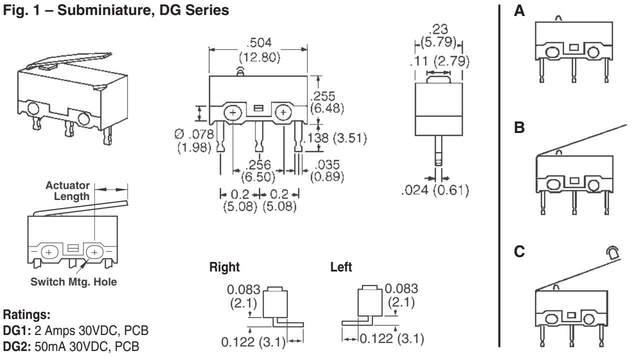

Ratings:
DG1: 2 Amps 30VDC, PCB
DG2: 50mA 30VDC, PCB

Fig. 2 – Subminiature, DH Series

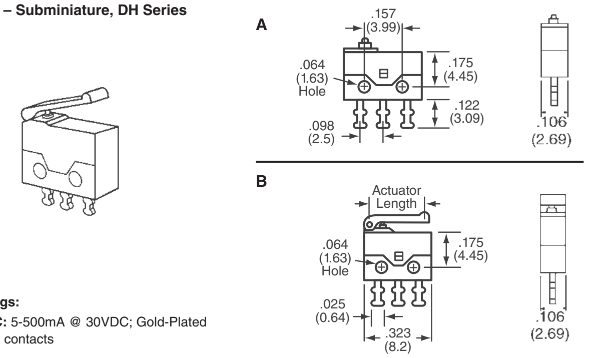

Ratings:
DH2C: 5-500mA @ 30VDC; Gold-Plated Brass contacts

Fig. 3 – Water and Dust Sealed, DC Series

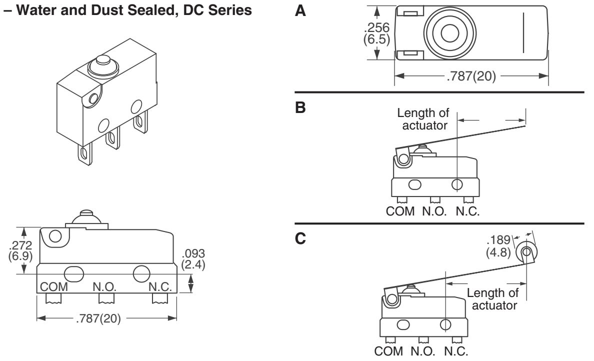

Fig. 4 – Subminiature, DB Series

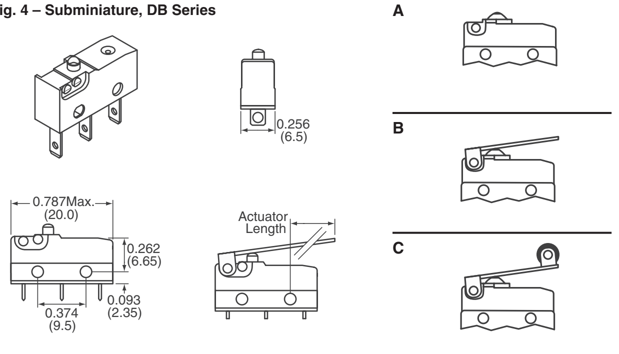

Fig.	Description	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Pricing 1	10	50	100	500	Cherry Part No.
1A	Subminiature DG Series	SPDT	5 ~ 50mA	Vertical PCB	Button	—	140	CH167-ND	2.08	18.48	77.00	132.83	608.30	DG23-B1AA
1B		SPDT	5 ~ 50mA	Vertical PCB	Lever	0.169 (4.29)	45	CH168-ND	2.35	20.88	87.00	150.08	687.30	DG23-B1LA
1B		SPDT	5 ~ 50mA	Right Angle - PCB	Lever	0.169 (4.29)	45	CH621-ND	2.35	20.88	87.00	150.08	687.30	DG23-B2LA
1B		SPDT	5 ~ 50mA	Left Angle - PCB	Lever	0.169 (4.29)	45	CH624-ND	2.35	20.88	87.00	150.08	687.30	DG23-B3LA
1C		SPDT	5 ~ 50mA	Vertical PCB	Roller Lever	0.075 (1.91)	60	CH169-ND	4.62	41.04	171.00	294.98	1350.90	DG23-B1RA
1C		SPDT	5 ~ 50mA	Right Angle - PCB	Roller Lever	0.075 (1.91)	60	CH622-ND	4.78	42.48	177.00	305.33	1398.30	DG23-B2RA
1B		SPDT	3A	Vertical PCB	Lever	0.169 (4.29)	45	CH165-ND	2.30	20.40	85.00	146.63	671.50	DG13-B1LA
1C		SPDT	3A	Vertical PCB	Roller Lever	0.075 (1.91)	60	CH166-ND	4.32	38.40	160.00	276.00	1264.00	DG13-B1RA
2A	Subminiature DH Series	SPDT	5 ~ 500mA	Straight - Solder	Button	—	90	CH172-ND	3.38	30.00	125.00	215.63	987.50	DH2CB1AA
2A		SPDT	5 ~ 500mA	Right Angle - PCB	Button	—	90	CH920-ND	4.59	40.80	170.00	293.25	1343.00	DH2CC5AA
2B		SPDT	5 ~ 500mA	Straight - Solder	Simulated Roller	0.252 (6.4)	50	CH173-ND	3.46	30.72	128.00	220.80	1011.20	DH2CB1PA
2B		SPDT	5 ~ 500mA	Right Angle - PCB	Simulated Roller	0.252 (6.4)	50	CH921-ND	4.70	41.76	174.00	300.15	1374.60	DH2CC5PA
2B		SPDT	5 ~ 500mA	Left Angle - PCB	Simulated Roller	0.252 (6.4)	50	CH923-ND	4.70	41.76	174.00	300.15	1374.60	DH2CC6PA
3A	Sealed DC Series Water & Dust	SPDT	0.1A	Solder Eyelet	Button	—	200	CH293-ND	5.13	45.60	190.00	327.75	1501.00	DC3C-A1AA
3A		SPDT	0.1A	Wire 18AWG Leads	Button	—	204	CH614-ND	9.53	84.72	353.00	608.93	2788.70	DC3C-D5AA
3B		SPDT	0.1A	Solder Eyelet	Lever	0.189 (4.80)	80	CH613-ND	6.26	55.68	232.00	400.20	1832.80	DC3C-A1LB
3A		SPDT	5A	Solder Eyelet	Button	—	200	CH290-ND	4.73	42.00	175.00	301.88	1382.50	DC1C-A1AA
3A		SPDT	5A	Right Angle - PCB	Button	—	200	CH608-ND	4.05	36.00	150.00	258.75	1185.00	DC1C-K6AA
3B		SPDT	5A	Solder Eyelet	Lever	0.189 (4.80)	80	CH291-ND	5.24	46.56	194.00	334.65	1532.60	DC1C-A1LB
3C		SPDT	5A	Solder Eyelet	Roller Lever	0.098 (2.49)	90	CH606-ND	7.64	67.92	283.00	488.18	2235.70	DC1C-A1RB
3B		SPDT	10.1A	Solder Eyelet	Lever	0.189 (4.80)	150	CH610-ND	6.16	54.72	228.00	393.30	1801.20	DC2C-A1LB
4A	DB Series Subminiature	SPDT	0.1A	.110 (2.79) QC	Button	0.189 (4.8)	60	CH880-ND	2.70	24.00	100.00	165.00	750.00	DB3CB1LB
4B		SPDT	1A	Solder Short	Lever	0.189 (4.8)	60	CH884-ND	2.48	22.08	92.00	151.80	690.00	DB1CA1LB
4A		SPDT	1A	.110 (2.79) QC	Button	—	150	CH885-ND	1.92	17.04	71.00	117.15	532.50	DB1CB1AA
4C		SPDT	1A	.110 (2.79) QC	Roller Lever	0.185 (4.7)	55	CH882-ND	3.59	31.92	133.00	219.45	997.50	DB1CB1RC
4A		SPDT	5A	Solder	Plunger Only	—	150	CH288-ND	1.78	15.84	66.00	113.85	521.40	DB1CA1AA
4A		SPDT	10A	Solder Short	Button	—	250	CH886-ND	1.92	17.04	71.00	117.15	532.50	DB2CA1AA
4A		SPDT	10A	Straight PCB	Button	—	250	CH883-ND	1.92	17.04	71.00	117.15	532.50	DB2CC1AA
—	Replacement Actuator	Standard Lever for DC Series, LC Suffix						CH668-ND	.22	1.92	8.00	13.80	63.20	0614-1233
		Extra Long Lever, LD Suffix						CH669-ND	.49	4.32	18.00	31.05	142.20	0614-1234
		Roller Lever for DC Series, RB Suffix						CH673-ND	.78	6.96	29.00	50.03	229.10	0714-0260
		Simulated Roller Lever, SC Suffix						CH671-ND	.30	2.64	11.00	18.98	86.90	0614-1238
		Simulated Roller Lever, SD Suffix						CH672-ND	.41	3.60	15.00	25.88	118.50	0614-1239

Snap and Lever Type Switches

Fig. 1 E13, E14, E19, E20, G13 Series

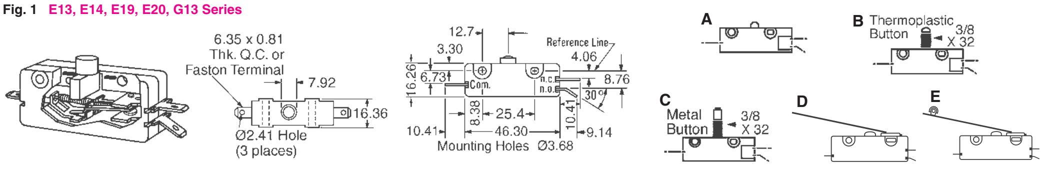

Ratings:
E13: 15A – 125/250VAC, 3/4 HP – 125VAC, 1-1/2 HP – 250VAC
E14: 25A – 125/250VAC, 1 HP – 125VAC, 2 HP – 250VAC
E19: 15A – 125/250VAC, 3/4 HP – 125VAC
E20: 20A – 125/250VAC, 1 HP – 125VAC
G13: 0.1A – 125VAC, Gold crosspoint contacts

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
General Purpose – E13, E14, E19, E20 and G13 Power Series											
1A	SPDT	15A	.250 QC (6.35)	Plastic Button	—	425	CH102-ND	3.38	3.00	2.50	E13-00E
1B	SPDT	15A	.250 QC (6.35)	THD Bushing, Plastic Button	—	425	CH100-ND	3.94	3.51	2.92	E13-00J
1C	SPDT	15A	.250 QC (6.35)	THD Bushing, Metal Button	—	425	CH101-ND	4.97	4.42	3.68	E13-00M
1D	SPDT	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH312-ND	4.81	4.28	3.56	E13-00H
1E	SPDT	15A	.250 QC (6.35)	Long Roller	1.391 (35.33)	100	CH313-ND	5.81	5.16	4.30	E13-00K
1E	DPDT	20A	.250 QC (6.35)	Long Lever	1.071 (27.20)	285	CH506-ND	12.07	10.73	8.94	E20-50H
1C	SPDT	25A	.250 QC (6.35)	THD Bushing, Metal Button	—	850	CH318-ND	5.91	5.26	4.38	E14-00M
1A	DPDT	15A	.250 QC (6.35)	Plastic Button	—	850	CH320-ND	7.37	6.56	5.46	E19-00A
1B	DPDT	15A	.250 QC (6.35)	THD Bushing, Plastic Button	—	850	CH322-ND	9.32	8.28	6.90	E19-00J
1C	DPDT	15A	.250 QC (6.35)	THD Bushing, Metal Button	—	850	CH324-ND	9.21	8.19	6.82	E19-00M
1E	DPDT	15A	.250 QC (6.35)	Long Roller	1.645 (41.78)	150	CH326-ND	9.72	8.64	7.20	E19-50K
1E	DPDT	20A	.250 QC (6.35)	Long Roller	1.391 (35.33)	312	CH330-ND	13.69	12.17	10.14	E20-50K
1D	SPST-N/O	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH501-ND	4.81	4.28	3.56	E13-01H
Brass Mounting Nut for Threaded Bushing							CH284-ND	.19	.17	.14	0012-0023
Knurled Dress Nut Brass for J/M E13/E19/G13							CH651-ND	1.54	1.37	1.14	0012-0025
Hex Nut Nickel Plated for J/M E13/E19/G13							CH652-ND	.24	.22	.18	0012-0028
Lock Washer for J/M E13/E19/G13							CH653-ND	.59	.53	.44	0012-0073
Subminiature – E61, E62 and E63 Series											
2C	SPDT	0.1A	Solder Eyelet	Roller Lever	.201 (5.11)	30	CH552-ND	6.26	5.57	4.64	E63-10K
2C	SPDT	0.1A	.093 QC (2.36)	Roller Lever	.201 (5.11)	30	CH382-ND	6.48	5.76	4.80	E63-00K
2C	SPDT	0.1A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH555-ND	6.43	5.72	4.76	E63-30K
2A	SPDT	5A	.093 QC (2.36)	Plunger Only	—	90	CH103-ND	4.05	3.60	3.00	E61-00A
2A	SPDT	5A	Solder Eyelet	Plunger Only	—	90	CH104-ND	4.05	3.60	3.00	E61-10A
2B	SPDT	5A	Solder Eyelet	Lever, Standard Ratio	.271 (6.88)	27	CH106-ND	5.83	5.19	4.32	E61-10H
2C	SPDT	5A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH372-ND	6.18	5.50	4.58	E61-30K
2C	SPDT	5A	.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH544-ND	5.78	5.14	4.28	E61-80K
2C	SPDT	5A	Solder Eyelet	Roller Lever	.326 (8.28)	10	CH543-ND	5.78	5.14	4.28	E61-60K
2A	SPDT	10.1A	.093 QC (2.36)	Plunger Only	—	212	CH109-ND	4.59	4.08	3.40	E62-00A
2B	SPDT	10.1A	.093 QC (2.36)	Lever, Standard Ratio	.271 (6.88)	56	CH111-ND	5.83	5.19	4.32	E62-00H
2B	SPDT	10.1A	Solder Eyelet	Lever, Standard Ratio	.271 (6.88)	56	CH112-ND	5.83	5.19	4.32	E62-10H
2C	SPDT	10.1A	.093 QC (2.36)	Roller, Standard Ratio	.201 (5.11)	65	CH113-ND	6.70	5.96	4.96	E62-00K
2C	SPDT	10.1A	Solder Eyelet	Roller, Standard Ratio	.201 (5.11)	65	CH114-ND	6.70	5.96	4.96	E62-10K
2C	SPDT	10.1A	.093 QC (2.36)	Roller Lever	.326 (8.28)	33	CH379-ND	6.70	5.96	4.96	E62-50K
2A	SPDT	10.1A	PC Mount	Plunger Only	—	212	CH545-ND	4.59	4.08	3.40	E62-50A
2C	SPDT	10.1A	Solder Eyelet	Roller Lever	.326 (8.28)	33	CH548-ND	5.89	5.24	4.36	E62-60K
Subminiature Snap Switches – DA3 Series											
3	SPDT	0.1A	.093 QC (2.36)	Lever, Standard Ratio	.271 (6.88)	27	CH142-ND	5.51	4.90	4.08	DA3C-F1LB
Replacement Actuator Lever, 3.066" (77.88mm) Extra Long							CH931-ND	.30	.27	.22	00147283
Panel Mount Pushbutton – E68, E69, E79 and F79 Series											
4B	SPDT	0.1A	.187 QC (4.75)	Momentary Cheat Interlock	.730 (18.54)	385	CH387-ND	6.56	5.84	4.86	E68-30A
4C	SPDT	0.1A	.187 QC (4.75)	Short Button Momentary	.420 (10.67)	425	CH388-ND	6.78	6.03	5.02	E68-40A
4A	SPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	425	CH154-ND	4.40	3.92	3.26	E69-00A
4B	SPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	425/285	CH155-ND	5.21	4.64	3.86	E69-30A
4C	SPDT	10A	.187 QC (4.75)	Short Button Momentary	.450 (11.43)	425	CH156-ND	4.40	3.92	3.26	E69-40A

(Continued)

Fig. 2 E61, E62, E63 Series

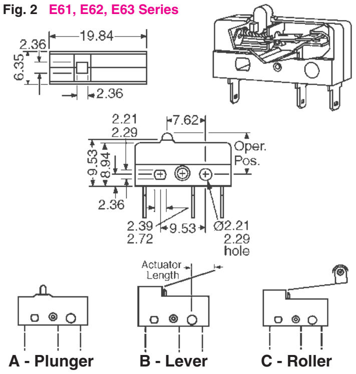

Ratings: E61: 5A – 125/250VAC
E62: 10.1A – 125/250VAC, 1/4 HP – 125VAC
E63: 0.1A – 125VAC, 0.25A – 30VDC

Fig. 3 DA3 Series

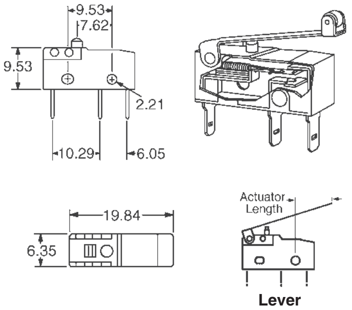

Ratings:
DA3: 0.1A 125VAC

Fig. 4

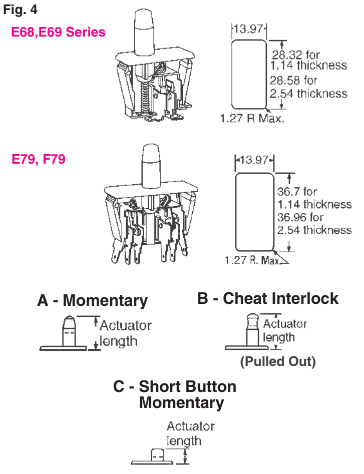

Ratings:
E69: 10A 125/250VAC, 1/3 HP, 125/250VAC
E68: 0.1A 125VAC
E79/F79: 10A 125/250VAC, 1/3 HP, 125/250VAC

Snap and Lever Type Switches *(Cont.)*

Fig. 5 E72 Series

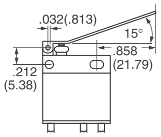

Fig. 6 F80 Series

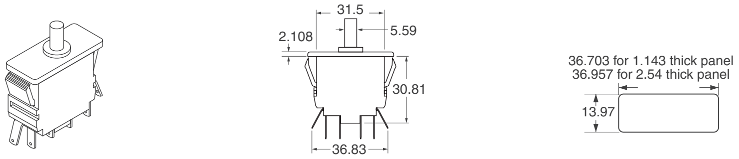

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
4A	DPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	680	CH157-ND	9.13	8.12	6.76	E79-00A
4B	DPDT	10A	.187 QC (4.75)	Push-Pull (Reset)	.920 (23.37)	510	CH392-ND	7.16	6.36	5.30	E79-20A
4B	DPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	757/567	CH158-ND	9.13	8.12	6.76	E79-30A
Water and Dust Sealed — E72 Series											
5	SPDT	10A	10" Wires	Lever	.858 (21.79)	67	CH391-ND	14.18	12.60	10.50	E72-40HT
Line Interrupt Switches – F80											
6	SPST	16A	.250 QC (6.35)	Plunger Only	—	866	CH307-ND	13.34	11.86	9.88	F82A-A120
Light Force and Standard Force Switches — E Series											
7A	SPDT	0.1A	.187 QC (4.75)	Plunger Only	—	75	CH331-ND	4.10	3.65	3.04	E21-00A
7B	SPDT	0.1A	.187 QC (4.75)	Long Lever	1.40 (35.56)	35	CH333-ND	6.94	6.17	5.14	E21-50H
7B	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	1.40 (35.56)	8	CH337-ND	4.59	4.08	3.40	E22-50HX
7B	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	2.932 (74.47)	2	CH341-ND	4.81	4.28	3.56	E22-85HX
7C	SPDT	3A	.187 QC (4.75)	Long Roller	1.34 (34.04)	35	CH339-ND	5.02	4.47	3.72	E22-50K
7D	SPDT	3A	.187 QC (4.75)	Short Roller	.810 (20.57)	75	CH336-ND	5.02	4.47	3.72	E22-00K
7A	SPDT	5A	.187 QC (4.75)	Plunger Only	—	45	CH342-ND	3.48	3.10	2.58	E23-00AX
7A	SPDT	5A	.187 QC (4.75)	Plunger Only	—	170	CH343-ND	3.65	3.24	2.70	E23-00A
7B	SPDT	5A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	10	CH347-ND	4.73	4.20	3.50	E23-55HX
7C	SPDT	5A	.187 QC (4.75)	Long Roller	1.34 (34.04)	86	CH346-ND	5.16	4.59	3.82	E23-50K
7D	SPDT	5A	.187 QC (4.75)	Short Roller	.81 (20.57)	170	CH344-ND	5.16	4.59	3.82	E23-00K
7B	SPDT	10A	.187 QC (4.75)	Long Lever	1.40 (35.56)	144	CH351-ND	3.83	3.41	2.84	E33-50H
7C	SPDT	10A	.187 QC (4.75)	Long Lever	1.58 (40.13)	22	CH354-ND	3.35	2.98	2.48	E33-75HX
7D	SPDT	10A	.187 QC (4.75)	Short Roller	.81 (20.57)	285	CH350-ND	4.32	3.84	3.20	E33-00K
7B	SPDT	15A	.187 QC (4.75)	Standard Force - Lever	1.58 (40.13)	120	CH535-ND	4.19	3.72	3.10	E34-50HL
7B	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	1.40 (35.56)	50	CH358-ND	4.24	3.77	3.14	E34-50HX
7B	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	22	CH362-ND	4.32	3.84	3.20	E34-55HX
Standard Size Insulator for E34 Series							CH663-ND	.38	.34	.28	0015-005
Small Size Insulator for E62 Series							CH664-ND	.38	.34	.28	0015-0052
Large Black Plastic Insulator for E34 Series							CH665-ND	.49	.44	.36	0015-0054
Miniature International – D4 Series											
8A	SPDT	0.1A	.187 QC (4.75)	Button	—	75	CH115-ND	4.97	4.42	3.68	D41C-R1AA
8B	SPDT	0.1A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	35	CH297-ND	5.40	4.80	4.00	D41C-R1LD
8C	SPDT	0.1A	.187 QC (4.75)	Roller, Standard Ratio	.81 (20.57)	75	CH117-ND	5.67	5.04	4.20	D41C-R1RA
8B	SPDT	3A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	2	CH123-ND	4.78	4.25	3.54	D42L-R1XL
8A	SPDT	5A	.187 QC (4.75)	Button	—	170	CH125-ND	2.70	2.40	2.00	D43C-R1AA
8A	SPDT	5A	.187 QC (4.75)	Button	—	45	CH129-ND	2.92	2.60	2.16	D43L-R1AA
8A	SPDT	10A	.187 QC (4.75)	Button	—	285	CH130-ND	2.86	2.55	2.12	D44C-R1AA
8A	SPDT	10A	.187 QC (4.75)	Button	—	75	CH134-ND	2.97	2.64	2.20	D44L-R1AA
8B	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	37	CH299-ND	3.29	2.93	2.44	D44L-R1LD
8B	SPDT	10A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	10	CH133-ND	3.54	3.15	2.62	D44L-R1ML
8C	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	.810 (20.57)	75	CH301-ND	3.97	3.53	2.94	D44L-R1RA
8A	SPDT	15A	.187 QC (4.75)	Button	—	100	CH139-ND	3.27	2.91	2.42	D45L-R1AA
8B	SPDT	15A	.187 QC (4.75)	Lever, Standard Ratio	.865 (21.97)	400	CH136-ND	3.43	3.05	2.54	D45C-R1LA
8B	SPDT	15A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	13	CH138-ND	3.67	3.27	2.72	D45L-R1ML
Miniature International — D4 Series – U.S. Version											
8B	SPDT	0.1A	.187 QC (4.75)	Alum. Lever, Standard Ratio	1.40 (35.56)	8	CH578-ND	5.21	4.64	3.86	D41L-R1YD
8B	SPDT	3A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	35	CH579-ND	3.02	2.69	2.24	D42C-R1LD
8B	SPDT	3A	.187 QC (4.75)	Alum. Lever, Standard Ratio	1.40 (35.56)	8	CH581-ND	4.62	4.11	3.42	D42L-R1YD
8A	SPDT	15A	.250 QC (6.35)	Button	—	400	CH594-ND	3.08	2.74	2.28	D45C-V1AA

Fig. 7 E Series

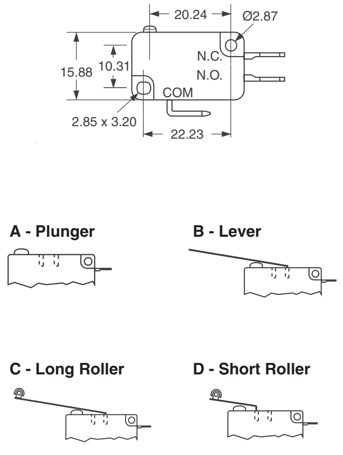

Ratings:

E21: 0.1A 125VAC, Gold contacts

E22: 3A 250VAC

E23: 5A 250VAC

E33: 10A 250VAC

E34: 15A 250VAC, UL 94HB

Fig. 8 D4 Series

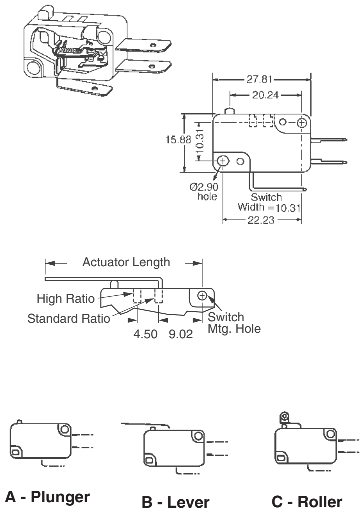

Ratings: 187 QC terminals.

D41: .1A 125VAC, Gold crosspoint contacts

D42: 3A 125/250VAC

D43: 5A, 1/4 H.P., 125/250VAC

D44: 10A, 1.2 H.P., 125/250VAC

D45: 15A, 1/2 H.P., 125/250VAC.

Tyco Electronics
Authorized Distributor

Microswitches

These miniature microswitches, with high reliability and low cost are offered with many options to suit most typical applications and can be used in instrumentation, household appliances, vending machines, industrial control systems, medical equipment and security systems.
Specifications: • Electrical Life: 100,000 Operations at 16A and 5A, 1,000,000 Operations at 0.1A
Mechanical Life: 10,000,000 Operations • Operating Temperature Range: -20°C ~ 130°C

Fig.	Contact Rating	Dimension X (mm)	Operating Force (gF)	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
1	16A	20.2	300	450-1442-ND	1.86	1.65	1.29	1478605-1
	0.1A	20.2	60	450-1444-ND	2.64	2.34	1.83	1478670-1
2	16A	35.6	180	450-1447-ND	2.11	1.87	1.47	1478605-3
	5A	35.6	60	450-1448-ND	2.26	2.01	1.57	1478667-3
	16A	50.5	30	450-1450-ND	2.14	1.90	1.49	1478603-4
	16A	50.5	90	450-1452-ND	2.14	1.90	1.49	1478605-4
	5A	50.5	30	450-1453-ND	2.36	2.09	1.64	1478667-4
3	16A	34	120	450-1455-ND	2.79	2.48	1.94	1478604-6
	0.1A	34	35	450-1457-ND	2.95	2.62	2.05	1478670-6
4	0.1A	32.6	35	450-1460-ND	2.95	2.62	2.05	1478670-7

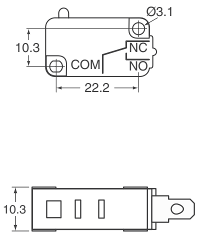

Fig. 1
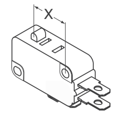

Fig. 2
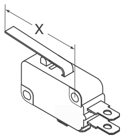

Fig. 3
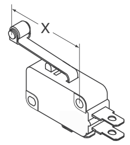

Fig. 4
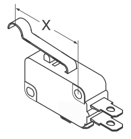

E•SWITCH

Snap Action Switches

LS Series
Specifications: • Contact Rating: 15 Amps @ 125/250 VAC • Electrical Life: 50,000 cycles minimum • Mechanical Life: 500,000 cycles typical • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 1,500 VAC for 60 seconds • Operating Temperature: -25°C ~ 85°C Materials: • Switch Housing and Actuator Button: High Temperature PBT (UL94V-0) • Contacts: Silver • Terminals: Copper Alloy

MS Series
Specifications: • Contact Rating: 5 Amps @ 125/250 VAC • Electrical Life: 10,000 cycles minimum • Mechanical Life: 100,000 cycles typical • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 1,000 VAC for 60 seconds • Operating Temperature: -25°C ~ 85°C Materials: • Switch Housing and Actuator Button: High Temperature PBT (UL94V-0) • Contacts: Silver • Terminals: Copper Alloy

Fig.	Dimension X (mm)	Operating Force (gF)	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
			LS Series — Snap Action Switches, 15 Amps					
1	20.35	100	.187QC	EG4518-ND	1.80	1.61	1.39	LS0851500F100C1A
	20.35	100	.250QC	EG4519-ND	1.80	1.61	1.39	LS0851500F100C2A
	20.35	100	Solder Lug	EG4520-ND	1.80	1.61	1.39	LS0851500F100S1A
	20.35	160	.187QC	EG4521-ND	1.80	1.61	1.39	LS0851500F160C1A
	20.35	160	.250QC	EG4522-ND	1.80	1.61	1.39	LS0851500F160C2A
2	36.2	45	.187QC	EG4523-ND	1.86	1.67	1.44	LS0851502F045C1A
	36.2	45	Solder Lug	EG4524-ND	1.86	1.67	1.44	LS0851502F045S1A
	36.2	75	.187QC	EG4525-ND	1.86	1.67	1.44	LS0851502F075C1A
	60.1	40	.187QC	EG4527-ND	1.86	1.67	1.44	LS0851503F040C1A
3	33	85	.187QC	EG4528-ND	1.93	1.73	1.49	LS0851504F085C1A
	33	140	.187QC	EG4529-ND	1.93	1.73	1.49	LS0851504F140C1A
4	20.9	250	.187QC	EG4530-ND	1.99	1.78	1.53	LS0851505F250C1A
	34.3	120	.187QC	EG4531-ND	1.99	1.78	1.53	LS0851506F120C1A
			MS Series — Miniature Snap Action Switches, 5 Amps					
5	2	60	Solder Lug	EG4533-ND	1.09	.98	.84	MS0850500F060S1A
	2	80	.110QC	EG4534-ND	1.09	.98	.84	MS0850500F080C1A
	2	80	Solder Lug	EG4535-ND	1.09	.98	.84	MS0850500F080S1A
	2	250	Solder Lug	EG4537-ND	1.09	.98	.84	MS0850500F250S1A
6	14.5	25	.110QC	EG4539-ND	1.15	1.03	.89	MS0850501F025C1A
	14.5	45	Solder Lug	EG4540-ND	1.15	1.03	.89	MS0850501F045S1A
	14.5	70	Solder Lug	EG4541-ND	1.15	1.03	.89	MS0850501F070S1A
	16.5	20	Solder Lug	EG4542-ND	1.15	1.03	.89	MS0850502F020S1A
	16.5	50	Solder Lug	EG4543-ND	1.15	1.03	.89	MS0850502F050S1A
	22.6	10	Solder Lug	EG4544-ND	1.15	1.03	.89	MS0850503F010S1A
	22.6	25	Solder Lug	EG4545-ND	1.15	1.03	.89	MS0850503F025S1A
	22.6	40	Solder Lug	EG4546-ND	1.15	1.03	.89	MS0850503F040S1A
7	14.65	20	Solder Lug	EG4547-ND	1.21	1.08	.93	MS0850504F020S1A
	14.65	35	.110QC	EG4548-ND	1.21	1.08	.93	MS0850504F035C1A
	14.65	35	Solder Lug	EG4549-ND	1.21	1.08	.93	MS0850504F035S1A
8	14.5	35	.110QC	EG4551-ND	1.26	1.13	.98	MS0850505F035C1A
	14.5	45	Solder Lug	EG4552-ND	1.26	1.13	.98	MS0850505F045S1A
	14.5	50	.110QC	EG4553-ND	1.26	1.13	.98	MS0850505F050C1A
	14.5	75	Solder Lug	EG4554-ND	1.26	1.13	.98	MS0850505F075S1A

LS Series
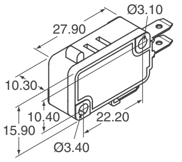

Fig. 1
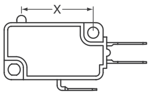

Fig. 2
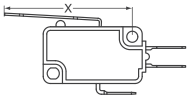

Fig. 3
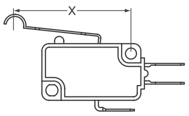

Fig. 4
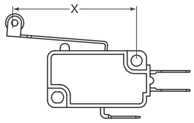

MS Series
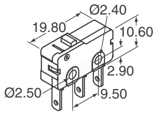

Fig. 5
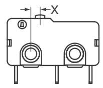

Fig. 6
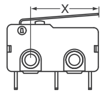

Fig. 7
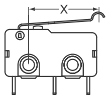

Fig. 8
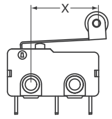

molex

Switch Connector and Terminal

Switch Connector:
• 94V-2 Nylon • UL Approved • Accepts 14-28 AWG • Number of Circuits: 3 • Maximum Current Rating: 10 • Maximum Voltage Rating: 250 • Mounting Ears: No • Maximum Panel Thickness: N/A • Eng. No.: 2191

WM2553-ND..................... **$.52**/1; **$4.58**/10; **$30.53**/100

Terminal:
14-22AWG, or (2) 18AWG Spade, Tin plated

WM2684CT-ND† **$1.43**/10; **$11.46**/100; **$47.75**/500
WM2684TR-ND‡ **$186.00**/3,000

† Cut Tape ‡ Tape and Reel

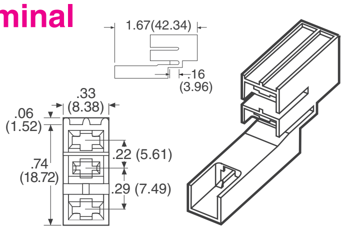

Tyco Electronics
Authorized Distributor

AMPIP Post-Insulation Pods

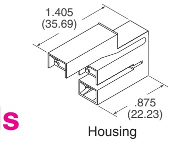

Housing

Straight Style .187" Series Receptacle Housings: • UL 94V-2 Flammability Rating • Nylon • Natural color • UL/CSA Approved • Insulation Diameter Maximum: .170" (4.32mm) • 3 circuits
A24758-ND **$4.65**/10; **$40.92**/100

Fastons:

A27696CT-ND†	20-24AWG, Brass, Fit tab .020" (.51mm)	**$7.42**/100; **$30.93**/500
A27700CT-ND†	16-20AWG, Brass, Fit tab .020" (.51mm)	**$8.03**/100; **$33.45**/500

† Cut Tape

C&K Snap-acting Switches

A SERIES: Specifications: • Electrical Life: 200,000 cycles at 15A @ 250VAC; 75,000 cycles at 25A @ 250VAC • Operating Temperature: -55°C ~ 85°C • Switch Housing: Heat resistant phenolic (UL 94V-0)
HB SERIES: Specifications: • Electrical Life: 150,000 cycles at 20A @ 250VAC • Operating Temperature: -55°C ~ 150°C • Switch Housing: Heat resistant/electrical grade phenolic
LC SERIES: Specifications: • Electrical Life: 100,000 cycles at 1A @ 125VAC • Operating Temperature: -25°C ~ 85°C • Switch Housing: Thermoplastic polyester (UL 94V-0) • Terminals: Copper alloy • Terminal Seal: Epoxy
MM SERIES: Specifications: • Electrical Life: 100,000 cycles at full rated load • Operating Temperature: -55°C ~ 135°C • Switch Housing: Heat resistant phenolic (UL 94V-0)
TF SERIES: Specifications: • Electrical Life: 300,000 cycles at 10A @ 250VAC • Operating Temperature: -40°C ~ 85°C • Switch Housing: Thermoplastic (UL 94V-0)
TM SERIES: Specifications: • Electrical Life: 350,000 cycles at 10A @ 250VAC • Operating Temperature: -55°C ~ 150°C • Switch Housing: Thermoplastic or general purpose phenolic (UL 94V-0)
ZMS SERIES: Specifications: • Electrical Life: 10,000 cycles at 3A @ 12VDC • Operating Temperature: -40°C ~ 85°C • Switch Housing: Nylon
ZMA SERIES: Specifications: • Electrical Life: 10,000 cycles at 3A @ 125VAC • Operating Temperature: -40°C ~ 85°C • Switch Housing: PBT
LCS SERIES: Specifications: • Electrical Life: 6,000 cycles at 6A @ 125VAC UL • Operating Temperature: -40°C ~ 105°C • Switch Housing: Thermoplastic polyester
LCA SERIES: Specifications: • Electrical Life: 6,000 cycles at 10A @ 125VAC • Operating Temperature: -10°C ~ 125°C • Switch Housing: Thermoplastic polyester
ZMC SERIES: Specifications: • Electrical Life: 15,000 cycles at 3A • Operating Temperature: -30°C ~ 85°C • Switch Housing: Nylon

Dimensions in mm

Fig. 1

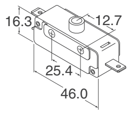

Fig. 2

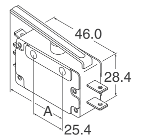

Fig. 3

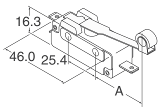

Fig. 4

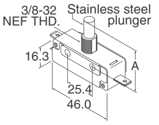

Requires Hexnut 0633B

Fig. 5

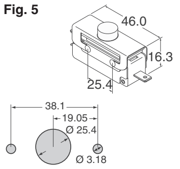

Fig. 6

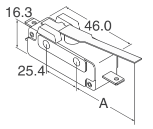

Fig. 7

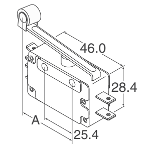

Fig. 8

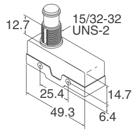

Hardware Included

Fig. 9

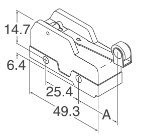

Fig. 10

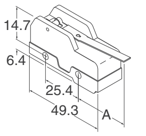

Fig. 11

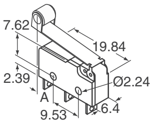

Fig. 12

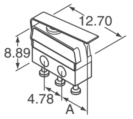

Fig. 13

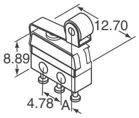

Fig. 14

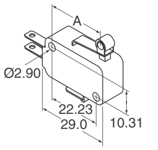

Fig. 15

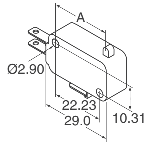

Fig. 16

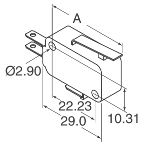

Fig. 17

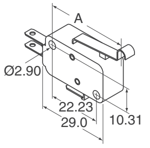

Fig. 18

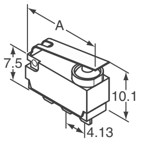

Fig. 19

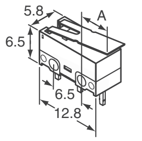

Fig. 20 *NEW!*

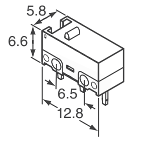

Fig. 21

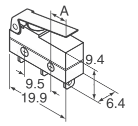

Fig. 22

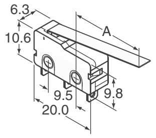

Fig.	Circuitry	Contact Rating (A)	Terminal	Dim. A (mm)	Operating Force Max. (grams)	Digi-Key Part No.	Price Each			C&K Part No.
							1	25	100	
General Purpose — A Series										
1	DPDT	15	.250” QC	—	850	CKN10090-ND ✔	9.29	7.44	5.89	ADPDC2P04AC
1	SPDT	15	.250” QC	—	567	CKN1408-ND	4.59	3.68	2.91	ASKHC2P04AC
1	SPDT	25	.250” QC	—	567	CKN9830-ND ✔	4.67	3.74	2.97	ASKHF3P04AY
2	DPDT	15	.250” QC	41.1	510	CKN1409-ND	10.07	8.06	6.38	ADPDC2L04AC
3	SPDT	15	.250” QC	35.1	113	CKN1410-ND	7.31	5.85	4.64	ASKHC2A04AC
3	SPDT	25	.250” QC	35.1	567	CKN10092-ND ✔	7.39	5.92	4.69	ASKHF3A04AY
4	DPDT	15	.250” QC	20.6	850	CKN1411-ND	11.06	8.85	7.01	ADPDC2J04AC
4	DPDT	25	.250” QC	20.6	—	CKN10091-ND ✔	9.38	7.50	5.94	ADPFF3J04AY
4	SPDT	15	.250” QC	20.6	567	CKN1412-ND	6.36	5.09	4.03	ASKHC2J04AC
4	SPDT	25	.250” QC	20.6	567	CKN10093-ND ✔	6.44	5.16	4.08	ASKHF3J04AY
5	SPDT	15	.250” QC	Blk Cap	567	CKN1413-ND	9.08	7.27	5.75	ASKHC2B14AC
5	SPDT	15	.250” QC	Red Cap	567	CKN1414-ND	9.08	7.27	5.75	ASKHC2BB4AC
5	SPDT	25	.250” QC	Blk Cap	567	CKN9829-ND ✔	9.16	7.33	5.81	ASKHF3B14AY
6	DPDT	15	.250” QC	38.1	170	CKN1415-ND	10.07	8.06	6.38	ADPDC2T04AC
6	SPDT	15	.250” QC	38.1	113	CKN1416-ND	5.37	4.30	3.41	ASKHC2T04AC
6	SPST	15	.250” QC	38.1	113	CKN1417-ND	4.77	3.82	3.02	ASKHC2T04AY
6	SPDT	25	.250” QC	38.1	567	CKN9948-ND ✔	6.05	4.85	3.84	ASKHF3T04AC
7	DPDT	15	.250” QC	38.1	510	CKN1418-ND	11.20	8.96	7.10	ADPDC2W04AC
HexNut 3/8-32 NEF-2B THD						CKN1829-ND	.35	.28	.23	0633B
Precision Sealed IP65 — HB Series										
7	SPDT	20	4-40 Screw	—	368	CKN10029-ND ✔	11.17	8.94	7.08	HBS2KCB4SP011C
7	SPDT	20	4-40 Screw	—	510	CKN10030-ND ✔	11.17	8.94	7.08	HBS2KGB4SP011C
8	SPDT	20	6-32 Screw	—	370	CKN1419-ND	17.08	13.67	10.82	HBS2KCB4SJ055C
8	SPDT	20	4-40 Screw	21.8	567	CKN10032-ND ✔	16.83	13.47	10.66	HBS2KHB4SJ011C
9	SPDT	20	6-32 Screw	21.8	100	CKN1421-ND	14.53	11.63	9.21	HBS2KGB4SA055C
10	SPDT	20	4-40 Screw	37.3	71	CKN1422-ND	13.72	10.98	8.69	HBS2KGB4ST011C
10	SPDT	20	4-40 Screw	37.3	510	CKN10031-ND ✔	15.06	12.05	9.54	HBS2KGB4STS11C
10	SPDT	20	4-40 Screw	21.44	368	CKN10028-ND ✔	16.69	13.36	10.57	HBS2KCB4SD011C
10	SPDT	20	6-32 Screw	21.44	368	CKN9872-ND ✔	16.94	13.55	10.73	HBS2KCB4SD055C
Subminiature Precision — LC Series										
11	SPDT	1	Solder	7.1	48	CKN1424-ND	7.76	6.21	4.92	LCGGX1A10EC
11	SPDT	1	Lt. Angle	7.1	57	CKN1425-ND	9.08	7.27	5.76	LCGHF5A10LC
11	SPDT	1	Rt. Angle	7.1	57	CKN1426-ND	9.08	7.27	5.76	LCGHF5A10RC
11	SPDT	1	Solder	Plunger	142	CKN10037-ND ✔	6.81	5.45	4.32	LCGGX1P00EC
11	SPDT	1	Solder	7.3	142	CKN10038-ND ✔	7.39	5.91	4.68	LCGGX1T10EC
11	SPDT	1	Solder	5.5	142	CKN10039-ND ✔	7.56	6.05	4.79	LCGGX1T13EC
Mini Precision — MM Series										
12	SPDT	7	Sld Turret	13.5	170	CKN1427-ND	20.74	16.60	13.14	MMGGD1L2C
12	SPDT	7	Sld Turret	Plunger	142	CKN10048-ND ✔	24.62	19.70	15.60	MMGGD1D0C
12	SPDT	5	Sld Turret	Plunger	142	CKN10131-ND ✔	13.11	10.49	8.31	MMGGE2POC
13	SPDT	7	Sld Turret	6.9	115	CKN1428-ND	26.57	21.26	16.83	MMGGD1W0C
13	SPDT	7	Sld Turret	8.6	142	CKN10049-ND ✔	20.74	16.60	13.14	MMGGD1L0C
Miniature — TF Series										
14	SPDT	11	.187” QC	20.6	90	CKN1429-ND	8.05	6.45	5.10	TFCGV3VA105BC
14	SPDT	11	.187” QC	34	75	CKN1430-ND ✔	8.10	6.49	5.14	TFCGV3VA155BC
15	SPDT	5	.250” QC	Plunger	150	CKN9185-ND	5.65	4.52	3.58	TFCJJ6SP004AC
16	SPDT	5A 277	.187” QC	34	12	CKN9183-ND	5.97	4.78	3.78	TFCDH8ST1340C
16	SPDT	5A 277	.187” QC	35.6	12	CKN9182-ND	5.97	4.78	3.78	TFCDH8ST1540C
16	SPDT	11	.187” QC	35.6	40	CKN1432-ND	7.24	5.80	4.59	TFCGV3VT155BC
16	SPDT	11	.187” QC	35.6	75	CKN9914-ND ✔	7.04	5.64	4.46	TFCGV3ST155BC
16	SPDT	11	.187” QC	69.9	20	CKN1433-ND	7.31	5.85	4.63	TFCGV3VT185BC
16	SPST	11	.187” QC	65.3	75	CKN9913-ND ✔	5.76	4.61	3.65	TFCGK6ST2640Y
16	SPST	1	.187” QC	41.1	150	CKN9915-ND ✔	6.81	5.45	4.32	TFCJF5VT2540Y
Miniature — TM Series										
14	SPDT	10	.187” QC	20.6	75	CKN10057-ND ✔	6.49	5.19	4.11	TMCGD6SA1040C
14	SPDT	10	.187” QC	34	75	CKN10058-ND ✔	6.55	5.25	4.15	TMCGD6SA1540C
14	SPDT	10	.250” QC	34	75	CKN9916-ND ✔	6.55	5.25	4.15	TMCGD6SA154AC
14	SPDT	15	.187” QC	39.6	150	CKN10152-ND ✔	6.29	5.04	3.99	TMCJG6SA2540C
15	SPDT	10	.187” QC	20.3	75	CKN1434-ND	4.78	3.83	3.03	TMCGD6SP0040C
15	SPDT	10	.250” QC	20.3	75	CKN1435-ND	4.78	3.83	3.03	TMCGD6SP004AC
15	SPDT	1	.187” QC	Plunger	75	CKN10059-ND ✔	4.76	3.81	3.02	TMCGF5SP0040C
16	SPDT	10	.187” QC	69.9	20	CKN1437-ND	5.73	4.59	3.63	TMCGD6ST1840C

✔ NEW!

(Continued)

C&K Snap-acting Switches *(Cont.)*

Fig.	Cir-cuitry	Contact Rating (A)	Terminal	Dim. A (mm)	Operating Force Max. (grams)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
16	SPDT	10	.250" QC	50.8	75	CKN9917-ND ✔	5.76	4.62	3.65	TMCGD6ST174AC
16	SPDT	1	.187" QC	21.3	75	CKN10060-ND ✔	5.48	4.39	3.47	TMCGF5ST1040C
16	SPDT	15	.187" QC	35.6	150	CKN9918-ND ✔	5.43	4.35	3.45	TMCJG6ST1540C
16	SPST	15	.187" QC	59.4	150	CKN9919-ND ✔	5.24	4.20	3.32	TMCJG6VT1640Y
16	SPDT	15	Solder	75.4	150	CKN9920-ND ✔	7.28	5.82	4.61	TMCJG6VT2810C
17	SPDT	10	.187" QC	32.8	50	CKN1439-ND	5.70	4.56	3.61	TMCGD6ST1440C
Dust Proof — ZMS Series										
18	SPDT	0.01	PC Pins	Plunger	130	CKN10165-ND ✔	3.18	2.55	2.02	ZMSH00130P00PSC
18	SPDT	3	Solder	Plunger	130	CKN9159-ND	3.71	2.97	2.35	ZMSH03130P00SSC
18	SPDT	3	Lt. Angle	Plunger	130	CKN10166-ND ✔	3.71	2.97	2.35	ZMSH03130P00LLC
18	SPDT	3	Lt. Angle	14.7	130	CKN10167-ND ✔	3.71	2.97	2.35	ZMSL03130T10LLC
18	SPDT	3	Solder	14.7	195	CKN9160-ND	3.71	2.97	2.35	ZMSH03130T10SSC
18	SPDT	3	Solder	18.6	130	CKN10168-ND ✔	3.71	2.97	2.35	ZMSL03130T11SSC
NEW! Subminiature — ZMC Series NEW!										
19	SPDT	3	Rt. Angle	4.03	30	CKN10160-ND	2.45	1.97	1.56	ZMCHF7L3R
19	SPDT	0.2	PC Pins	4.03	30	CKN9940-ND	2.39	1.92	1.52	ZMCHM9L3T
19	SPDT	0.2	PC Pins	5.36	25	CKN10161-ND	2.39	1.92	1.52	ZMCHM9T23K
19	SPDT	0.2	Rt. Angle	5.36	25	CKN9941-ND	2.93	2.35	1.86	ZMCHM9T23R
19	SPDT	0.2	PC Pins	4.03	50	CKN10162-ND	2.39	1.92	1.52	ZMCJM9L0T
19	SPDT	0.2	Rt. Angle	5.36	40	CKN10164-ND	2.93	2.35	1.86	ZMCJM9T13R
20	SPDT	0.2	PC Pins	Plunger	150	CKN10163-ND	2.30	1.84	1.46	ZMCJM9P0T
Subminiature — ZMA Series										
19	SPDT	0.1	PC Pins	2.03	80	CKN10156-ND ✔	.85	.68	.54	ZMA00A080S06PC
19	SPDT	0.1	PC Pins	4.03	150	CKN10157-ND ✔	.85	.68	.54	ZMA00A150L04PC
20	SPDT	0.1	PC Pins	Plunger	150	CKN10158-ND ✔	.89	.72	.57	ZMA00A150P00PC
19	SPDT	3	PC Pins	Plunger	150	CKN9164-ND	.89	.72	.57	ZMA03A150P00PC
19	SPDT	3	PC Pins	3.94	50	CKN9165-ND	1.16	.93	.74	ZMA03A150L04PC
19	SPDT	3	Rt. Angle	Plunger	150	CKN9167-ND	1.25	1.00	.79	ZMA03A150P00RC
20	SPDT	3	PC Pins	2.03	150	CKN10159-ND ✔	1.16	.93	.74	ZMA03A150S06PC
Subminiature Sealed — LCS Series										
21	SPDT	6	Solder	Plunger	60	CKN9168-ND	3.34	2.67	2.12	LCS06A060P00SC
21	SPDT	6	12" wires	Plunger	60	CKN10040-ND ✔	4.96	3.97	3.14	LCS06A060P00WC
21	SPDT	6	.110" QC	2.8	20	CKN9172-ND	3.83	3.06	2.43	LCS06A060L03QC
21	SPDT	6	.110" QC	26.4	8	CKN9173-ND	3.94	3.16	2.50	LCS06A060L27QC
Subminiature — LCA Series										
22	SPDT	10	Solder	9.1	140	CKN10035-ND ✔	2.14	1.71	1.36	LCA10A140L09SC
22	SPDT	10	Solder	1.5	140	CKN10036-ND ✔	2.14	1.71	1.36	LCA10A140LS2SC
22	SPDT	10	Solder	Plunger	140	CKN9174-ND	1.95	1.56	1.24	LCA10A140P00SC
22	SPDT	10	.110" QC	Plunger	140	CKN9175-ND	2.28	1.83	1.45	LCA10A140P00QC

✔ NEW!

Door Interlocks

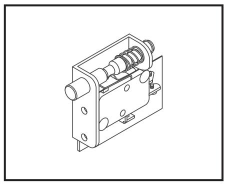

ITT's door interlock switches feature a push/pull motion making these switches ideal for computer enclosures, panel builders, and industrial enclosures.

Specifications: • Contact Rating: 15A @ 125 and 250VAC • Electrical Life: 150,000 cycles at 15A @ 250VAC • Operating Temperature: -55°C ~ 150°C • **Material:** • Plunger: Stainless Steel • Tapped Plunger: 4-40 X .375 depth

Description	Digi-Key Part No.	Price Each 1	10	100	C&K Part No.
SPDT Screw Terminals	CKN1400-ND	22.73	19.64	16.54	11TL602
SPDT .250" QC	CKN9632-ND ***NEW!***	20.59	17.79	14.98	11TL4A2
SPDT .187" QC, Tapped Plunger	CKN9631-ND ***NEW!***	23.65	20.43	17.21	11TL404
SPDT .250" QC, Tapped Plunger	CKN10074-ND ***NEW!***	24.60	21.25	17.90	12TL4A4
SPDT Screw Terminals, Tapped Plunger	CKN1401-ND	25.80	22.29	18.77	11TL604
SPDT Screw Terminals, Tapped Plunger	CKN1402-ND	26.75	23.10	19.46	12TL604
2-SPDT Screw Terminals	CKN1404-ND	33.35	28.81	24.26	23TL602
2-SPDT .250" QC, Tapped Plunger	CKN9636-ND ***NEW!***	32.12	27.75	23.37	23TL4A4
2-SPDT Screw Terminals, Tapped Plunger	CKN1405-ND	36.41	31.45	26.49	23TL604

ELECTROSWITCH
ELECTRONIC PRODUCTS

C2 and C3 Series Rotary Switches 1/4 Amp

The C2 and C3 series offers an 8 position and a 12 position vertical PC board mountable design. **Specifications: Electrical: Current and Voltage Ratings:** 0.25 amp @ 28VDC • **Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 30mΩ **Insulation Resistance:** In excess of 10,000MΩ **Mechanical:** • **Terminal and Contacts:** Brass with silver plate • **Insulation:** Polyester • **Index Life:** 25,000 cycles minimum • **Index Angle:** 30° • **Index Stop:** Adjustable • **Stop Strength:** 8 inches/pound minimum **Hardware:** Mounting nut and lockwasher are shipped assembled.

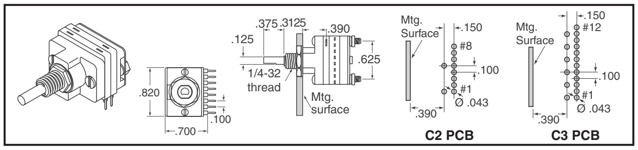

C2 PCB
C3 PCB

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
C2 Series — 8 Pin — RoHS Compliant									
1	2-8	1	1	No	451-1002-ND	21.25	17.00	14.88	C2P0108N-A
2	2-8	1	2	No	451-1004-ND	25.00	20.00	17.50	C2P0208N-A
2	2-4	2	1	No	451-1003-ND	21.25	17.00	14.88	C2P0204N-A
C3 Series — 12 Pin									
1	2-12	1	1	No	451-1005-ND◆	21.50	17.20	15.05	C3P0112N-A
1	2-12	1	2	No	451-1007-ND	25.25	20.20	17.68	C3P0212N-A
2	2-6	2	1	No	451-1006-ND◆	21.50	17.20	15.05	C3P0206N-A
3	2-4	3	1	No	451-1008-ND◆	21.50	17.20	15.05	C3P0304N-A
4	2-6	2	2	No	451-1009-ND◆	26.25	21.00	18.38	C3P0406N-A
6	2-4	3	2	No	451-1010-ND◆	27.25	21.80	19.08	C3P0604N-A

◆ RoHS Compliant

C4 Series Rotary Switches 1/2 Amp

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in lifetime lubricants. **Specifications: Electrical:** • **Current and Voltage Rating:** 0.5 amp @ 28VDC; 0.3 amp @ 125VAC • **Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 3mΩ • **Insulation Resistance:** In excess of 10,000MΩ **Mechanical:** • **Terminals and Contacts:** Brass with silver-plate • **Index Life:** 25,000 cycles minimum • **Index Angle:** 30° Standard, 36°, 45°, 60°, and 90° available • **Index Stop:** Adjustable • **Stop Strength:** 25 inches/pound minimum • **Insulation:** Diallyl phthalate **Hardware:** Mounting nut and lockwasher are shipped assembled.

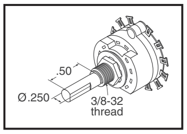

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1011-ND	17.25	13.80	12.08	C4D0112N-A
2	2-06	2	1	No	451-1012-ND	17.00	13.60	11.90	C4D0206N-A
2	2-12	1	2	No	451-1013-ND	23.75	19.00	16.63	C4D0212N-A
3	2-12	1	3	No	451-1015-ND	27.75	22.20	19.43	C4D0312N-A
3	2-04	3	1	No	451-1014-ND	18.00	14.40	12.60	C4D0304N-A
4	2-12	1	4	No	451-1017-ND	33.00	26.40	23.10	C4D0412N-A
4	2-06	2	2	No	451-1016-ND	22.75	18.20	15.93	C4D0406N-A
5	2-12	1	5	No	451-1018-ND	45.75	36.60	32.03	C4D0512N-A
6	2-06	2	3	No	451-1020-ND	28.50	22.80	19.95	C4D0606N-A
6	2-04	3	2	No	451-1019-ND	23.25	18.60	16.28	C4D0604N-A
6	2-12	1	6	No	451-1021-ND	51.25	41.00	35.88	C4D0612N-A
8	2-06	2	4	No	451-1022-ND	34.50	27.60	24.15	C4D0806N-A
10	2-06	2	5	No	451-1024-ND	43.25	34.60	30.28	C4D1006N-A
12	2-04	3	4	No	451-1025-ND	35.50	28.40	24.85	C4D1204N-A
15	2-04	3	5	No	451-1026-ND	49.00	39.20	34.30	C4D1504N-A

C5 Series Sealed Rotary Switches 1.0 Amp

The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, and both internal and external seals for washability. **Specifications: Electrical:** • **Current and Voltage Rating:** 1 amp @ 28VDC; 1 amp @ 125VAC • **Dielectric Strength:** 1,000VAC • **Contact Resistance:** Average initial 20mΩ • **Insulation Resistance:** in excess of 10,000MΩ **Mechanical:** • **Terminals and Contacts:** Brass with silver-plate • **Index Life:** 25,000 cycles minimum • **Index Angle:** Positive 30° • **Index Stop:** Adjustable • **Stop Strength:** 4.5 inches/pound minimum • **Insulation:** Polyester **Hardware:** Mounting nut and lockwasher are shipped assembled.

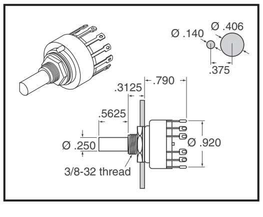

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
C5 Series — Sealed Solder Lug									
1	2-12	1	1	No	451-1027-ND	9.25	7.40	6.48	C5P0112N-A
2	2-06	2	1	No	451-1028-ND	10.00	8.00	7.00	C5P0206N-A
3	2-04	3	1	No	451-1029-ND	10.50	8.40	7.35	C5P0304N-A
4	2-03	4	1	No	451-1030-ND	11.00	8.80	7.70	C5P0403N-A

C7 Series Rotary Switches 1.0 Amp

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing and solder lug terminals. **Specifications: Electrical:** • **Current and Voltage Rating:** 1.0 amp @ 28VDC; 0.5 amp @ 125VAC • **Dielectric Strength:** 1,000VAC between current carrying parts and ground • **Contact Resistance:** Average Initial 3mΩ • **Insulation Resistance:** In excess of 10,000MΩ **Mechanical:** • **Terminals and Contacts:** Brass with silver-plate as standard • **Insulation:** Diallyl phthalate • **Index Life:** 25,000 cycles minimum • **Index Stop:** Fixed • **Stop Strength:** 25 inches/pound minimum **Hardware:** Mounting nut and lockwasher are shipped assembled.

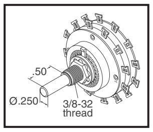

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	23	1	1	No	451-1035-ND	27.75	22.20	19.43	C7D0123N
2	23	1	2	No	451-1037-ND	43.50	34.80	30.45	C7D0223N
1	24	1	1	No	451-1036-ND	27.25	21.80	19.08	C7D0124N-C
2	24	1	2	No	451-1038-ND	44.00	35.20	30.80	C7D0224N-C

ELECTROSWITCH
ELECTRONIC PRODUCTS

D2 Series Rotary Switches .55 Amp

The D2 Series switch is used where space is at a premium. This dual ball side thrust index offers exceptional torque control. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

Specifications: Electrical: • Current and Voltage Rating: 0.55 amp @ 28VDC; 0.25 amp @ 115VAC **• Current Carrying Capacity:** 7 amps **• Dielectric Strength:** 750VAC between current carrying parts and ground **• Contact Resistance:** Average initial 5mΩ **• Insulation Resistance:** Diallyl in excess of 900,000MΩ, Ceramic in excess of 1,000,000MΩ **Mechanical: • Clips and Rotors:** Brass with silver-plate as standard **• Insulation:** Diallyl phthalate or ceramic **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable standard **• Stop Strength:** 10 inches/pound minimum **Hardware:** Mounting nut and lockwasher are shipped assembled.

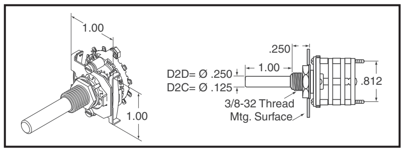

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-12	1	1	No	451-1056-ND	38.78	31.73	28.20	D2D0112N
2	02-06	2	1	No	451-1057-ND	41.80	34.20	30.40	D2D0206N
2	02-12	1	2	No	451-1058-ND	51.43	42.08	37.40	D2D0212N
3	02-05	3	1	No	451-1059-ND	41.25	33.75	30.00	D2D0305N
3	02-12	1	3	No	451-1060-ND	66.00	52.80	46.20	D2D0312N
3	02-03	3	1	No	451-1048-ND	49.75	39.80	34.83	D2C0303N
4	02-05	2	2	No	451-1050-ND	82.50	66.00	57.75	D2C0405N
4	02-06	2	2	No	451-1061-ND	52.25	41.80	36.58	D2D0406N
6	02-05	3	2	No	451-1062-ND	46.75	37.40	32.73	D2D0605N
6	02-06	2	3	No	451-1063-ND	66.75	53.40	46.73	D2D0606N

D4 Series Rotary Switches 1.5 Amp

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism.

Specifications: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC **• Dielectric Strength:** 1,500VAC **• Contact Resistance:** Average initial 3.5mΩ **• Insulation Resistance:** Glass epoxy in excess of 750,000MΩ. Ceramic in excess of 1,000,000MΩ

Mechanical: Clips and Rotors: Brass with silver-plate as standard. **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Stop Strength:** 10 inches/pound minimum **• Index Stop:** Adjustable

Hardware: Mounting nut and lockwasher are shipped assembled.

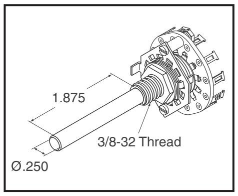

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-11	1	1	No	451-1096-ND	25.00	20.00	17.50	D4G0111N
2	02-11	1	2	No	451-1098-ND	34.50	27.60	24.15	D4G0211N
2	02-05	2	1	No	451-1097-ND	26.50	21.20	18.55	D4G0205N
3	02-11	1	3	No	451-1100-ND	44.25	35.40	30.98	D4G0311N
3	02-03	3	1	No	451-1099-ND	25.00	20.00	17.50	D4G0303N
4	02-11	1	4	No	451-1102-ND	58.75	47.00	41.13	D4G0411N
4	02-05	2	2	No	451-1101-ND	34.50	27.60	24.15	D4G0405N
1	02-12	1	1	No	451-1087-ND	43.25	34.60	30.28	D4C0112N

Rotary Accessories — Knobs and Dial Plates

Fig. 1

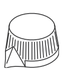

Fig. 2

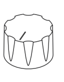

Fig. 3

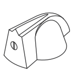

Fig. 4

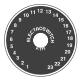

Fig. 5

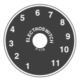

Fig. 6

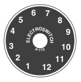

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Electroswitch Part No.
1	Pointer Knob with One Set Screw, .125” Shaft	451-1122-ND	3.38	2.70	1400R
2	Round Knob with One Set Screw, .250” Shaft	451-1123-ND	9.25	7.40	1914N
3	Pointer Knob with One Set Screw, .250” Shaft	451-1121-ND	2.75	2.20	P2300
4	Dial Plate, 1-23 Digit, 1.87” diameter 15°	451-1126-ND	2.63	2.10	P173
5	Dial Plate, 1-11 Digit, 1.87” diameter 30°	451-1125-ND	3.25	2.60	P118
6	Dial Plate, 1-12 Digit, 1.87” diameter 30°	451-1124-ND	3.25	2.60	P112

500 Series Magnetic Encoders

The Electroswitch 500 Series Magnetic Encoders are built upon a contact free integrated circuit design. This encoder integrates hall effect sensing and digital signal processing to provide high-resolution angular measurement solutions.

Specification: Electrical: Operating Voltage: 4.7 ~ 5.7 VDC **• Supply Current:** 30mA max. **• Logic Output:** VCC High; 0.4 Low **• Power Consumption:** 165mW max. **• Operating Temperature:** -40°C ~ 105°C

Note: *Mounting Hardware Included*

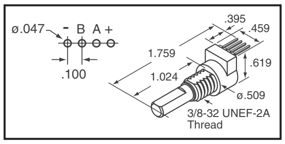

Description	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
Quadrature Output, 32 PPR	451-1127-ND	45.28	36.22	31.70	505Q-0032-S010
Quadrature Output, 64 PPR	451-1128-ND	45.28	36.22	31.70	505Q-0064-S010
Quadrature Output, 128 PPR	451-1129-ND	45.28	36.22	31.70	505Q-0128-S010
Quadrature Output, 256 PPR	451-1130-ND	45.28	36.22	31.70	505Q-0256-S010

Grayhill INC.

Rotary Switches

Series 75 Single Deck

Specifications: • 0.3 inch diameter • 200mA • Compact Rotary Switch

Features: • PCB Mount • Life: 10,000 cycles • 1/4 - 32 UNF - 2A bushing thread, 1/8 inch shaft • Non-shorting, wiping contacts (shorting contacts not available)

Dimensions in mm

Fig. 1

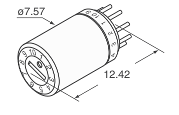

Fig. 2

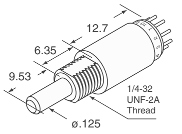

Use Series 11 Grayhill Knobs

Fig.	Style	Angle of Throw	No. of Poles	Positions per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	Screwdriver	36°	1	4	GH7360-ND	23.95	19.16	14.37	75AP36-01-1-04N
	Screwdriver	36°	2	4	GH7363-ND	28.65	22.93	17.20	75AP36-01-2-04N
	Screwdriver	36°	1	6	GH7361-ND	23.95	19.16	14.37	75AP36-01-1-06N
	Screwdriver	36°	1	8	GH7362-ND	23.95	19.16	14.37	75AP36-01-1-08N
2	Shaft	36°	1	2	GH7306-ND	27.35	21.88	16.41	75BP36-01-1-02N
	Shaft	36°	1	4	GH7307-ND	27.35	21.88	16.41	75BP36-01-1-04N
	Shaft	36°	1	6	GH7308-ND	27.35	21.88	16.41	75BP36-01-1-06N

Series 50 and 51 Single Deck

Dimensions in mm

Specifications:
- 0.50 inch Diameter
- 200 mA Rotary Switch

Features:
- Industry Standard • Behind panel 0.698 inch (solder terminals), 0.662 inch (PC terminals) • 1/4 - 28 UNF - 2A bushing thread, 1/8 inch shaft • PC or Solder terminals, Life: 25,000 cycles • Adjustable Stop (AJ) with non-shorting contacts (N)

Note: Contact Digi-Key for shorting contacts (30° and 36° only), shaft and panel seal.

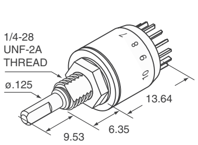

Use Series 11 Grayhill Knobs

Termination	Angle of Throw	No. of Poles	Max. Pos. per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
Solder	30°	1	12	GH7277-ND	17.33	13.87	10.40	51D30-01-1-AJN
Solder	30°	2	6	GH7309-ND	20.98	16.79	12.59	51D30-01-2-AJN
Solder	36°	1	10	GH7273-ND	16.09	12.87	9.66	50D36-01-1-AJN
Solder	36°	2	5	GH7274-ND	19.88	15.91	11.93	50D36-01-2-AJN
Solder	45°	1	8	GH7347-ND	16.77	13.42	10.07	50D45-01-1-AJN
Solder	45°	2	4	GH7348-ND	20.85	16.69	12.52	50D45-01-2-AJN
Solder	60°	1	6	GH7349-ND	16.77	13.42	10.07	50D60-01-1-AJN
Solder	60°	2	3	GH7350-ND	20.85	16.69	12.52	50D60-01-2-AJN
Solder	90°	1	4	GH7351-ND	16.78	13.43	10.07	50D90-01-1-AJN
Solder	90°	2	2	GH7352-ND	20.85	16.69	12.52	50D90-01-2-AJN
PC	30°	1	12	GH7278-ND	18.05	14.45	10.84	51DP30-01-1-AJN
PC	30°	2	6	GH7310-ND	21.71	17.37	13.03	51DP30-01-2-AJN
PC	36°	1	10	GH7275-ND	16.82	13.46	10.10	50DP36-01-1-AJN
PC	36°	2	5	GH7276-ND	20.60	16.49	12.37	50DP36-01-2-AJN
PC	45°	1	8	GH7353-ND	17.51	14.01	10.51	50DP45-01-1-AJN
PC	45°	2	4	GH7354-ND	21.58	17.27	12.95	50DP45-01-2-AJN
PC	60°	1	6	GH7355-ND	17.51	14.01	10.51	50DP60-01-1-AJN
PC	60°	2	3	GH7356-ND	21.58	17.27	12.95	50DP60-01-2-AJN
PC	90°	1	4	GH7357-ND	17.51	14.01	10.51	50DP90-01-1-AJN
PC	90°	2	2	GH7358-ND	21.58	17.27	12.95	50DP90-01-2-AJN

Series 56 Single Deck

Specifications: • 0.5 inch diameter • 200mA Rotary Switch

Features: • Behind panel 0.480 inch (solder terminals) 0.377 inch (PC terminals) • 1/4 - 28 UNF - 2A bushing thread, 1/8 inch shaft • PC or Solder terminals, Life: 25,000 cycles • Adjustable stop (AJ) with non-shorting contacts (N) **Note:** Contact Digi-Key for shorting contacts

Dimensions in mm

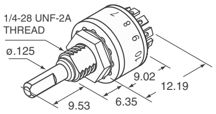

Use Series 11 Grayhill Knobs

Adjustable Stop: Allows you to change number of positions per pole. Simply remove and relocate stop pins in the holes in front of switch. Pins are held in place by a self-adhesive sticker which fits over the front plate.

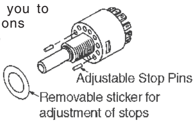

Termination	Angle of Throw	No. of Poles	Max. Pos. per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
Solder	30°	1	12	GH5601-ND	11.60	9.28	6.96	56D30-01-1-AJN
Solder	30°	2	6	GH5602-ND	12.86	10.29	7.72	56D30-01-2-AJN
Solder	36°	1	10	GH5603-ND	11.22	8.98	6.74	56D36-01-1-AJN
Solder	36°	2	5	GH5604-ND	12.49	10.00	7.50	56D36-01-2-AJN
PC	30°	1	12	GH7279-ND	11.96	9.57	7.18	56DP30-01-1-AJN
PC	30°	2	6	GH7280-ND	13.24	10.59	7.95	56DP30-01-2-AJN
PC	36°	1	10	GH7281-ND	11.59	9.28	6.96	56DP36-01-1-AJN
PC	36°	2	5	GH7282-ND	12.86	10.29	7.72	56DP36-01-2-AJN

(Continued)

Series 71 Multi-Deck

Specifications:

- 0.5 to 0.75 inch diameter
- 250mA Rotary Switch

Features:

- Behind panel: 1 deck - 0.761 inch, 2 decks - 0.979 inch
- 71A = 1/4-32 UNEF -2A .125" shaft, 71B = 3/8-32 UNEF -2A .250" shaft.
- Adjustable Stop (AJ) with non-shorting contacts (N)

Note: Contact Digi-Key for shorting contacts.

Dimensions in mm

Fig. 1

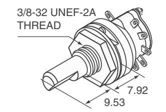

Use Series 11
Grayhill Knobs

Fig. 2

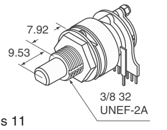

Use Series 11
Grayhill Knobs

Adjustable Stop: Allows you to change number of positions per pole. Simply remove and relocate stop pins in the holes in front of switch. Pins are held in place by a self-adhesive sticker which fits over the front plate.

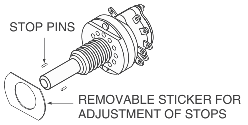

Fig.	Termination	Angle of Throw	No. of Decks	Poles per Deck	Max. Pos. per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	Solder	30°	1	1	12	GH7319-ND	16.82	13.46	10.10	71AD30-01-1-AJN
	Solder	30°	1	2	6	GH7320-ND	17.48	13.99	10.49	71AD30-01-2-AJN
	Solder	30°	2	1	12	GH7321-ND	21.79	17.43	13.08	71AD30-02-1-AJN
	Solder	30°	2	2	6	GH7322-ND	23.15	18.52	13.89	71AD30-02-2-AJN
	Solder	36°	1	1	10	GH7359-ND	16.83	13.47	10.10	71AD36-01-1-AJN
	Solder	36°	1	2	5	GH7323-ND	17.48	13.99	10.49	71AD36-01-2-AJN
	Solder	36°	2	1	10	GH7324-ND	21.79	17.43	13.08	71AD36-02-1-AJN
	Solder	36°	2	2	5	GH7325-ND	23.15	18.52	13.89	71AD36-02-2-AJN
	Solder	30°	1	1	12	GH7101-ND	16.82	13.46	10.10	71BD30-01-1-AJN
	Solder	30°	1	2	6	GH7102-ND	17.48	13.99	10.49	71BD30-01-2-AJN
	Solder	30°	2	1	12	GH7103-ND	21.79	17.43	13.08	71BD30-02-1-AJN
	Solder	30°	2	2	6	GH7104-ND	23.15	18.52	13.89	71BD30-02-2-AJN
	Solder	36°	1	1	10	GH7311-ND	16.82	13.46	10.10	71BD36-01-1-AJN
	Solder	36°	1	2	5	GH7312-ND	17.48	13.99	10.49	71BD36-01-2-AJN
	Solder	36°	2	1	10	GH7313-ND	21.79	17.43	13.08	71BD36-02-1-AJN
	Solder	36°	2	2	5	GH7314-ND	23.15	18.52	13.89	71BD36-02-2-AJN
2	PC	30°	1	1	12	GH7326-ND	18.38	14.71	11.03	71ADF30-01PAJN
	PC	30°	1	2	6	GH7327-ND	19.06	15.25	11.44	71ADF30-01QAJN
	PC	30°	2	1	12	GH7328-ND	25.23	20.19	15.14	71ADF30-02PAJN
	PC	30°	2	2	6	GH7329-ND	26.56	21.25	15.94	71ADF30-02QAJN
	PC	36°	1	1	10	GH7330-ND	18.38	14.71	11.03	71ADF36-01PAJN
	PC	36°	1	2	5	GH7331-ND	19.06	15.25	11.44	71ADF36-01QAJN
	PC	36°	2	1	10	GH7332-ND	25.23	20.19	15.14	71ADF36-02PAJN
	PC	36°	2	2	5	GH7333-ND	26.56	21.25	15.94	71ADF36-02QAJN
	PC	30°	1	1	12	GH7105-ND	18.38	14.71	11.03	71BDF30-01PAJN
	PC	30°	1	2	6	GH7106-ND	19.07	15.26	11.45	71BDF30-01QAJN
	PC	30°	2	1	12	GH7107-ND	25.23	20.19	15.14	71BDF30-02PAJN
	PC	30°	2	2	6	GH7108-ND	26.56	21.25	15.94	71BDF30-02QAJN
	PC	36°	1	1	10	GH7315-ND	18.39	14.71	11.04	71BDF36-01PAJN
	PC	36°	1	2	5	GH7316-ND	19.06	15.25	11.44	71BDF36-01QAJN
	PC	36°	2	1	10	GH7317-ND	25.23	20.19	15.14	71BDF36-02PAJN
	PC	36°	2	2	5	GH7318-ND	26.56	21.25	15.94	71BDF36-02QAJN

Series 42 and 44 Mil Style

Features:

- Adjustable Stop Rotary Switch
- Rugged construction, fully enclosed, adjustable stops
- Rated make/break, 1A; Carry 10A, 115 VAC resistive
- Non-shorting contact (N)
- Insulation Resistance: 50 MΩ initial, 1000MΩ minimum

Dimensions in mm

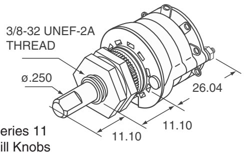

Use Series 11
Grayhill Knobs

Angle of Throw	Positions per Pole	No. of Decks	Poles Per Deck	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
36°	10	1	1	GH4201-ND	40.25	32.21	24.16	42D36-01-1-AJN
36°	5	1	2	GH4202-ND	41.96	33.58	25.18	42D36-01-2-AJN
36°	10	2	1	GH7343-ND	52.43	41.95	31.46	42D36-02-1-AJN
36°	5	2	2	GH7344-ND	55.91	44.73	33.55	42D36-02-2-AJN
30°	12	1	1	GH4401-ND	41.30	33.04	24.78	44D30-01-1-AJN
30°	6	1	2	GH4402-ND	43.04	34.44	25.83	44D30-01-2-AJN
30°	12	2	1	GH7345-ND	54.88	43.91	32.93	44D30-02-1-AJN
30°	6	2	2	GH7346-ND	58.32	46.66	35.00	44D30-02-2-AJN
30°	12	3	1	GH7334-ND	68.44	54.76	41.07	44D30-03-1-AJN

Series 19

Grayhill's Series 19 Single Deck Rotary Switches are 2 inches in diameter and are rated for 15Amps @ 120VAC. UL Recognized. Rugged Construction

- **Contacts:** Non-shorting
- **Rotational Torque:** 30 to 75oz-inch
- Hardware included

Dimensions in mm

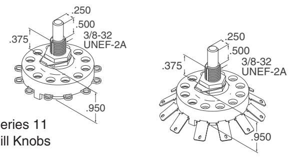

Use Series 11
Grayhill Knobs

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Position, Solder Terminal	GH7283-ND	30.37	24.30	18.23	15.19	19001-04UL
6 Position, Solder Terminal	GH7284-ND	33.32	26.66	20.00	16.67	19001-06UL
8 Position, Solder Terminal	GH7285-ND	36.29	29.04	21.78	18.15	19001-08UL
10 Position, Solder Terminal	GH7286-ND	39.22	31.38	23.54	19.61	19001-10UL
4 Position, .250 Quick Connect	GH7287-ND	30.37	24.30	18.23	15.19	19101-04UL
6 Position, .250 Quick Connect	GH7288-ND	33.32	26.66	20.00	16.67	19101-06UL
8 Position, .250 Quick Connect	GH7289-ND	36.29	29.04	21.78	18.15	19101-08UL
10 Position, .250 Quick Connect	GH7290-ND	39.22	31.38	23.54	19.61	19101-10UL

Series 11 Knobs

for Rotary Switches and Encoders

Features:

- Color: Black (Contact Digi-Key for Gray color) • Material: N = Nylon A = ABS • Spring Clip (press on) or Metal insert with set screw

Dimensions in mm

Fig. 1

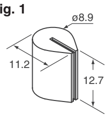

Fig. 2

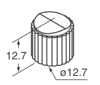

Fig. 3

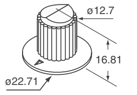

Fig. 4

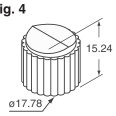

Fig. 5

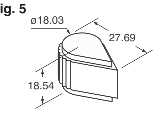

Fig. 6

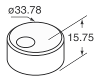

Fig. 7

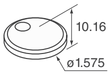

Fig.	Shaft Dia. (Inches)	Set Screw	Spring Clip	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	.125	No	Yes	GH7335-ND	1.48	1.19	.89	11K5017-JCNB
2	.125	No	Yes	GH7336-ND	.62	.50	.37	11K5029-JCNB
3	.125	Yes	No	GH7337-ND	3.46	2.77	2.08	11K5015-JMNB
3	.250	Yes	No	GH7338-ND	3.46	2.77	2.08	11K5015-KMNB
4	.250	No	Yes	GH7339-ND	.62	.50	.37	11K5014-KCNB
5	.250	No	Yes	GH7340-ND	1.73	1.39	1.04	11K5028-KCNB
6	.250	Yes	No	GH7341-ND	3.52	2.82	2.12	11K5013-KMNB
7	.250	No	Yes	GH7342-ND	.74	.60	.45	11K5020-KCAB

Adjustable Rotary Switches

Series HS, TS and PS

Resistive Load: • HS13: 6A @ 125VAC, 3A @ 250VAC, or 5A @ 30VDC • HS16: 12A @125VAC or 6A @ 250VAC • TS: 6A @ 125/250VAC • PS: 30A @ 125/250VAC **Contact Resistance**: 10mΩ maximum **Insulation Resistance**: 200MΩ minimum @ 500VDC **Dielectric Strength**: 1,500VAC minimum for 1 minute minimum **Electrical Life**: • HS: 7,500 operations minimum • TS: 10,000 operations minimum • PS: 5,000 operations minimum **Indexing**: 30° for HS16, TS and PS; 45° for HS13 **Operating Temperature Range**: -10°C ~ 70°C

Dimensions in mm

Fig. 1

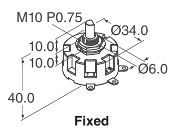

Fig. 2

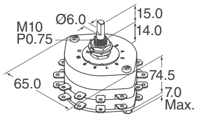

Fig. 3

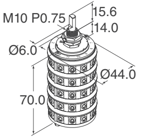

Fig. 4

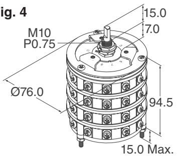

Fig. 5

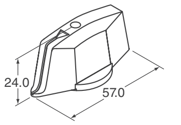

Fig. 6

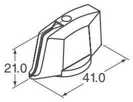

Fig.	No. of Poles	No. of Positions	Termination	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	1	2	Solder Lug	360-2349-ND	7.99	5.67	5.00	HS13X-D-RO
	1	3	Solder Lug	360-2350-ND	7.99	5.67	5.00	HS13Y-D-RO
	1	4	Solder Lug	360-2351-ND	7.99	5.67	5.00	HS13Z-D-RO
2	1	2-11	Solder Lug	360-2352-ND	20.58	15.75	14.41	HS16-1N-RO
	2	2-11	Solder Lug	360-2353-ND	28.80	22.16	20.68	HS16-2N-RO
	3	2-11	Solder Lug	360-2354-ND	38.12	29.33	27.37	HS16-3N-RO
	4	2-11	Solder Lug	360-2355-ND	61.52	48.71	46.15	HS16-4N-RO
3	1	2-11	Screw	360-2356-ND	34.22	26.33	24.57	TS1N-RO
	2	2-11	Screw	360-2357-ND	45.41	34.66	32.87	TS2N-RO
	3	2-11	Screw	360-2358-ND	54.76	43.35	41.07	TS3N-RO
	4	2-11	Screw	360-2359-ND	85.66	68.53	64.86	TS4N-RO
	5	2-11	Screw	360-2360-ND	109.66	88.75	82.41	TS5N-RO
4	1	2-11	Screw	360-2361-ND	38.12	29.33	27.37	PS1N-RO
	2	2-11	Screw	360-2362-ND	57.28	45.35	42.96	PS2N-RO
	3	2-11	Screw	360-2363-ND	77.30	61.84	58.53	PS3N-RO
	4	2-11	Screw	360-2364-ND	98.39	79.62	73.94	PS4N-RO
5	Large Knob, Black with White Indicator Line			360-2365-ND	5.01	3.19	2.92	AT431
6	Small Knob, Black with White Indicator Line			360-2366-ND	5.01	3.19	2.92	AT432

Adjustable Miniature Power Level Rotaries and Knobs

Series MR

• Positive detent mechanism for distinct feel and audible feedback • Metal bushing and housing construction increases durability • High contact reliability achieved by the self-cleaning contact mechanism

Dimensions in mm

Fig. 1

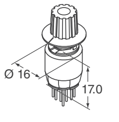

Fig. 2

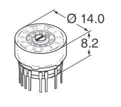

Fig. 3

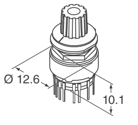

Fig. 4

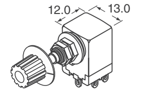

Fig. 5

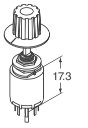

Fig. 6

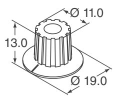

Fig. 7

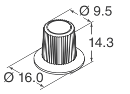

Fig. 8

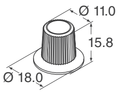

Fig.	Angle of Throw	No. of Poles	Positions	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	30	1	2-12	360-2368-ND	12.15	8.81	7.83	MRA112-A-RO
	30	2	2-6	360-2369-ND	12.96	9.39	8.36	MRA206-A-RO
2	30	1	2-12	360-2370-ND	8.86	6.09	5.54	MRF112-RO
	30	2	2-6	360-2371-ND	9.19	6.32	5.75	MRF206-RO
3	30	1	2-12	360-2372-ND	10.19	7.23	6.65	MRK112-A-RO
	30	2	2-6	360-2373-ND	10.51	7.45	6.86	MRK206-A-RO
	30	4	2-3	360-2374-ND	11.18	7.93	7.29	MRK403-A-RO
4	120	2	2	360-2375-ND	8.69	5.98	5.43	MRT22-A-RO
	60	2	2	360-2376-ND	9.19	6.32	5.75	MRT23-A-RO
5	45	1	2-8	360-2377-ND	11.45	8.30	7.39	MRX108-A-RO
	45	2	2-4	360-2378-ND	12.11	8.77	7.81	MRX204-A-RO
	60	1	2-6	360-2379-ND	11.13	7.89	7.26	MRY106-A-RO
6	Large Black Knob for Miniature Rotaries			360-2410-ND	1.00	.55	.47	AT433A
7	Small Black Tipped Knob			360-2411-ND	2.28	1.37	1.19	AT4103A
	Small White Tipped Knob			360-2412-ND	2.28	1.37	1.19	AT4103B
	Small Red Tipped Knob			360-2413-ND	2.28	1.37	1.19	AT4103C
8	Large Black Tipped Knob			360-2414-ND	2.57	1.55	1.35	AT4104A
	Large White Tipped Knob			360-2415-ND	2.57	1.55	1.35	AT4104B
	Large Red Tipped Knob			360-2416-ND	2.57	1.55	1.35	AT4104C

Adjustable Stop Rotary Switches

Specifications: • Adjustable stop allows you to limit the number of switch positions as needed • **Rotor Contact:** Standard with Silver plated Brass • **Rotor:** Standard with Nylon maximum temperature requirements of 125°C • **Voltage and Current ratings:** UL ratings are 3/4 amp at 125 volts AC; 1/4 amp at 250 volts DC; 1/2 amp at 125 volts DC (non-shorting contacts) • **Contact Resistance:** .008 ~ .010Ω • **Contact Life:** Silver plated brass, solid silver rotor contacts, and silver plated brass stator contacts provide a minimum reliable life of over 1,100,000 operations or of 50,000 cycles through twelve positions and return without appreciable rise in contact resistance.

Dimensions in mm

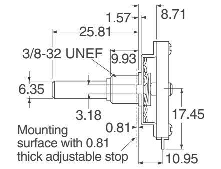

Fig. 1

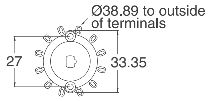

Fig. 2

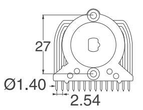

Fig.	Angle of Throw	Type	Terminals	No. Poles	No. Pos.	No. Decks	Current Rating Amps	Digi-Key Part No.	Price Each 1	10	50
1	30°	Non-Short	Solder Lug	SP	12	1	3/4A-125VAC	CT2121-ND	7.59	7.06	5.86
	30°	Shorting	Solder Lug	SP	11	1	3/4A-125VAC	CT2122-ND	7.59	7.06	5.86
2	30°	Non-Short	Printed Circuit	SP	12	1	3/4A-125VAC	CT2123-ND	8.28	7.70	6.40
	30°	Shorting	Printed Circuit	SP	11	1	3/4A-125VAC	CT2124-ND	8.71	8.10	6.73

Adjustable Stop Rotary Switches KC Series

With applications ranging for test and measurement equipment to telephone base stations to hospital controls. These rotary switches have performed exceptionally well. **Specifications:** • **Contacts:** (Non-Shorting). Available with solder lugs or printed circuit boards pins with adjustable stops to select any number of positions • **Operating Force:** 570 Grams • **Indexing:** 30° Index • **Contact Rating (Switching):** 150mA 250V AC/DC; 350mA 110V AC/DC • **Contact Rating (Non-Switching):** 5 Amps • **Initial Contact Resistance:** Silver = 50mΩ maximum • **Operating Temperature:** -30°C ~ 85°C • **Moving and Fixed Contact:** Silver plated brass

Dimensions in mm

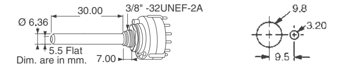

Terminations

PC Mount

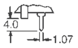

Solder Eyelet

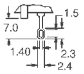

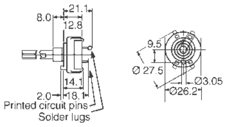

No. of Poles	No. of Pos.	Termination	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
SP	12	PC Mount	EG1951-ND	6.90	61.54	530.50	KC52A30.001NPS
	12	Solder Eyelet	EG1952-ND	6.90	61.54	530.50	KC52A30.001NLS
DP	6	PC Mount	EG1953-ND	6.90	61.54	530.50	KC26A30.001NPS
	6	Solder Eyelet	EG1954-ND	6.90	61.54	530.50	KC26A30.001NLS
3P	4	PC Mount	EG1955-ND	6.90	61.54	530.50	KC34A30.001NPS
	4	Solder Eyelet	EG1956-ND	6.90	61.54	530.50	KC34A30.001NLS
4P	3	PC Mount	EG1957-ND	6.90	61.54	530.50	KC43A30.001NPS
	3	Solder Eyelet	EG1958-ND	6.90	61.54	530.50	KC43A30.001NLS
Stop Ring for 12 Position Switch			EG1959-ND	.16	1.45	12.50	G200000

Adjustable Stop Rotary Switches

Specifications: • Contact Rating: Switch: 2.5Amps @ 125VAC; 350mA @ 125VDC (UL/CSA); Carry: 5Amps • Electrical Life: 15,000 make-and-break cycles • Contact Resistance: 20mΩ typical • Operating Temperature: -30°C ~ 85°C • G and Q contacts are UL/CSA approved

Materials: • Housing: Glass filled nylon, red • Movable Contact: Coin silver, silver plated • Stationary Contacts and Terminals: Brass, silver plated

Hardware: Nut, Lockwasher, Stop Ring Included

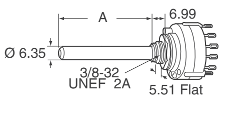

Fig. 1

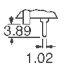

Fig. 2

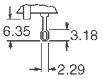

Fig.	Poles	No. of Pos.	Dim. A - mm	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	SP	4	38.1	CKN9450-ND	4.74	3.80	3.01	2.38	A10415RNCQ
	SP	8	38.1	CKN9824-ND ***NEW!***	5.52	4.42	3.50	2.76	A10815RNCQ
	SP	12	9.53	CKN10199-ND ***NEW!***	10.77	8.62	6.83	5.39	A11203RNCB
	SP	12	9.53	CKN10200-ND ***NEW!***	6.61	5.29	4.19	3.31	A11203RNCQ

(Continued)

C&K Adjustable Stop Rotary Switches *(Cont.)*

Fig.	Poles	No. of Pos.	Dim. A - mm	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	SP	8	12.7	CKN10203-ND ***NEW!***	6.23	4.99	3.95	3.12	A12505RNCQ
	SP	8	38.1	CKN10205-ND ***NEW!***	5.93	4.75	3.76	2.97	A12515RNCQ
	SP	12	12.7	CKN6042-ND	6.61	5.29	4.19	3.31	A11205RNCQ
	SP	12	12.7	CKN9451-ND	8.57	6.86	5.43	4.29	A11205RNCQE
	SP	12	38.1	CKC7001-ND	6.30	5.04	3.99	3.15	A11215RNCQ
	DP	6	12.7	CKN9488-ND	6.98	5.59	4.42	3.49	A20605RNCQ
	DP	6	38.1	CKC7003-ND	6.67	5.34	4.23	3.34	A20615RNCQ
	3P	4	12.7	CKN9825-ND ***NEW!***	6.88	5.51	4.36	3.44	A30405RNCQ
	3P	4	38.1	CKC7005-ND	6.57	5.26	4.17	3.29	A30415RNCQ
	4P	3	12.7	CKN9827-ND ***NEW!***	7.52	6.02	4.77	3.76	A40305RNCQ
	4P	3	38.1	CKC7007-ND	7.22	5.78	4.57	3.61	A40315RNCQ
2	SP	12	38.1	CKC7002-ND	6.30	5.04	3.99	3.15	A11215RNZQ
	SP	2	12.7	CKN9487-ND	4.88	3.91	3.09	2.44	A11405RNZQ
	SP	3	9.53	CKN9822-ND ***NEW!***	4.88	3.91	3.09	2.44	A10303RNZQ
	SP	3	12.7	CKN9823-ND ***NEW!***	4.88	3.91	3.09	2.44	A10305RNZQ
	SP	8	38.1	CKN10089-ND ***NEW!***	5.52	4.42	3.50	2.76	A10815RNZQ
	SP	12	9.53	CKN10201-ND ***NEW!***	6.61	5.29	4.19	3.31	A11203RNZQ
	SP	4	12.7	CKN10202-ND ***NEW!***	9.42	7.54	5.97	4.71	A12405RNZB
	SP	8	12.7	CKN10204-ND ***NEW!***	6.23	4.99	3.95	3.12	A12505RNZQ
	DP	4	9.53	CKN10206-ND ***NEW!***	6.61	5.29	4.19	3.31	A20403RNZQ
	DP	6	38.1	CKC7004-ND	6.67	5.34	4.23	3.34	A20615RNZQ
	3P	4	9.53	CKN6043-ND	6.88	5.51	4.36	3.44	A30403RNZQ
	3P	4	38.1	CKC7006-ND	6.57	5.26	4.17	3.29	A30415RNZQ
	3P	4	38.1	CKN9826-ND ***NEW!***	8.94	7.16	5.67	4.48	A30415RSZQE
	4P	3	38.1	CKC7008-ND	7.22	5.78	4.57	3.61	A40315RNZQ
Replacement Hex Nut 3/8-32				CKN1828-ND	.81	.66	.52	.41	472706201
Replacement Lockwasher 3/8-32				CKN10079-ND ***NEW!***	.49	.40	.32	.25	472800202
Stop Ring For Rotary Switch				CKN9486-ND	.87	.70	.55	.44	767B00201

8mm/10mm DIP Coded Rotary Switches

Specifications:
• Contact Ratings: 0.4VA maximum @ 20VAC or VDC maximum • Mechanical and Electrical Life: 20,000 position changes • Contact Resistance: 50mΩ maximum initial • Operating Temperature: -25°C ~ 85°C. **Materials:** • Cover and Base: Glass filled nylon, flame retardant, heat stabilized (UL 94V-0) RoHS version PPS • Actuator: LCP (UL 94V-0), internal O-ring seal standard with all actuators • Movable Contacts: Copper alloy, with gold plate over nickel plate • Terminals: Copper alloy with gold plate over nickel plate. All terminals are insert molded.

Dimensions in mm

Fig. 1

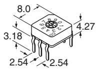

Fig. 2

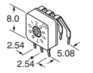

Fig. 3

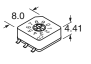

Fig. 4

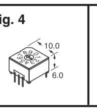

Fig. 5

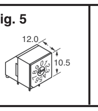

Fig. 6

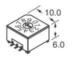

Actuator Options

A

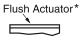

* Designed for
#0 Phillips screwdriver.

B

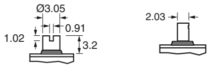

C

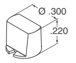

Fig.	Type	Actuator	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
8mm - Vertical - Process Sealed								
1	BCD	A	CKN6157-ND	5.24	4.20	3.32	2.62	CD10RM0CB
	BCD	B	CKN6155-ND	6.02	4.82	3.81	3.01	CD10RL1CB
	BCD	C	CKN6152-ND	7.02	5.62	4.45	3.52	CD10RK1CB
	HEX	A	CKN6166-ND	5.76	4.61	3.65	2.88	CD16RM0CB
	HEX	B	CKN6164-ND	6.59	5.28	4.18	3.30	CD16RL1CB
	HEX	C	CKN6161-ND	7.60	6.08	4.82	3.80	CD16RK1CB
8mm - Right Angle - Process Sealed								
2	BCD	A	CKN6156-ND	6.19	4.96	3.92	3.10	CD10RM0AB
	BCD	B	CKN6154-ND	6.94	5.55	4.40	3.47	CD10RL1AB
	HEX	A	CKN6165-ND	6.82	5.46	4.33	3.42	CD16RM0AB
	HEX	B	CKN6163-ND	7.57	6.06	4.80	3.79	CD16RL1AB
	HEX	C	CKN6160-ND	8.58	6.87	5.44	4.29	CD16RK1AB
8mm - SMT - Process Sealed								
3	BCD	A	CKN6158-ND	5.90	4.73	3.74	2.96	CD10RM0SB
	BCD	C	CKN6153-ND	7.74	6.20	4.91	3.88	CD10RK1SB
	BCD	Flush	CKN6150-ND	5.90	4.73	3.74	2.96	CD08RM0SB
	HEX	Flush	CKN6167-ND	6.50	5.21	4.12	3.26	CD16RM0SB
	HEX	C	CKN6162-ND	8.35	6.68	5.29	4.18	CD16RK1SB
	HEX Comp	Flush	CKN6159-ND	6.50	5.21	4.12	3.26	CD16CM0SB
10mm - PC Mount - Process Sealed								
4	BCD	Flush	CKN6172-ND	5.33	4.27	3.38	2.67	CRD10RM0CB
	BCD Comp	Flush	CKN6169-ND	5.33	4.27	3.38	2.67	CRD10CM0CB
	HEX	Flush	CKN6178-ND	5.85	4.69	3.71	2.93	CRD16RM0CB
	HEX Comp	Flush	CKN6175-ND	5.85	4.69	3.71	2.93	CRD16CM0CB
10mm - Right Angle - Process Sealed								
5	BCD	Flush	CKN6171-ND	6.31	5.05	4.00	3.16	CRD10RM0AB
	BCD Comp	Flush	CKN6168-ND	6.31	5.05	4.00	3.16	CRD10CM0AB
	HEX	Flush	CKN6177-ND	6.92	5.54	4.39	3.47	CRD16RM0AB
	HEX Comp	Flush	CKN6174-ND	6.79	5.44	4.31	3.40	CRD16CM0AB
10mm - SMT - Process Sealed								
6	BCD	Flush	CKN6173-ND	6.02	4.82	3.81	3.01	CRD10RM0SB
	BCD Comp	Flush	CKN6170-ND	6.02	4.82	3.81	3.01	CRD10CM0SB
	HEX	Flush	CKN6179-ND	6.60	5.28	4.18	3.30	CRD16RM0SB
	HEX	Flush	CKN6176-ND	6.60	5.28	4.18	3.30	CRD16CM0SB

Half-inch Rotary Switches

M Series

Specifications: • Contact Rating: Switch: 250mA maximum at 125VAC or 28VDC; Non-shorting contacts; Carry: 6Amps • Electrical Life: 10,000 make-and-break cycles at 150mA, 125VAC or 28VDC • Operating Temperature: -30°C ~ 85°C • Hardware Included • Series MA, MB, MC, MD use Stop Pins, Series ME, MG, MH use Stop Rings

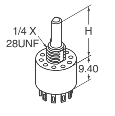

Fig. 1

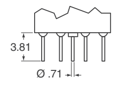

Fig. 2

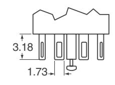

Fig.	Poles	No. of Pos.	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	SP	5	16.51	CKN10042-ND ***NEW!***	15.28	12.23	9.68	7.65	MA05L1NCQD
	SP	10	16.51	CKN6044-ND	15.28	12.23	9.68	7.65	MA00L1NCQD
	SP	10	16.51	CKN6047-ND	15.28	12.23	9.68	7.65	ME00L1NCQD
	SP	12	16.51	CKC7011-ND	11.47	9.91	8.34	7.56	MC00L1NCQD
	SP	12	19.94	CKN10044-ND ***NEW!***	20.53	16.43	13.01	10.27	MC00S6NCQD
	DP	3	16.51	CKN9879-ND ***NEW!***	22.61	18.09	14.33	11.31	MB03S1NZGD
	DP	5	16.51	CKN9880-ND ***NEW!***	18.30	14.64	11.59	9.15	MB05L1NCGD
	DP	6	16.51	CKC7012-ND	12.76	11.02	9.28	8.41	MD00L1NCQD
	DP	6	16.51	CKN9881-ND ***NEW!***	25.24	20.19	15.99	12.62	MD00S1NCGF
	DP	6	16.51	CKN10047-ND ***NEW!***	17.40	13.92	11.02	8.70	MD06L1NCQD
	DP	6	16.51	CKN10046-ND ***NEW!***	18.38	14.71	11.64	9.19	MD00L1NZQF
	DP	5	16.51	CKN10130-ND ***NEW!***	16.34	13.08	10.35	8.18	MF00L1NZQD
2	SP	4	6.35	CKN10041-ND ***NEW!***	14.69	11.76	9.31	7.35	MA04L2NZQD
	SP	10	16.51	CKN6045-ND	14.69	11.76	9.31	7.35	MA00L1NZQD
	SP	10	16.51	CKN9878-ND ***NEW!***	16.65	13.33	10.55	8.33	MA00L3NCGD
	SP	10	16.51	CKN6048-ND	14.69	11.76	9.31	7.35	ME00L1NZQD
	SP	12	16.51	CKC7009-ND	11.04	9.54	8.03	7.28	MC00L1NZQD
	SP	12	16.51	CKN9883-ND ***NEW!***	16.61	13.30	10.53	8.31	MG00L1NZQF
	SP	12	16.51	CKN6049-ND	11.04	9.54	8.03	7.28	MG00L1NZQD
	DP	5	16.51	CKN6046-ND	16.34	13.08	10.35	8.18	MB00L1NZQD
	DP	5	6.35	CKN10043-ND ***NEW!***	15.20	12.16	9.63	7.60	MB00L2NZQD
	DP	6	16.51	CKC7010-ND	16.81	13.45	10.65	8.41	MD00L1NZQD
	DP	6	6.35	CKN9882-ND ***NEW!***	16.81	13.45	10.65	8.41	MD06L2NZQD
	DP	6	16.51	CKN6050-ND	16.81	13.45	10.65	8.41	MH00L1NZQD
Replacement Stop Pins				CKN1750-ND	.31	.25	.20	.16	537100000
Adhesive Mylar Washer				CKN9418-ND	.49	.40	.32	.25	537202000
Inner Stop Ring for M Rotary				CKN9448-ND	.88	.71	.56	.45	638100000
Outer Stop Ring for M Rotary				CKN9449-ND	.88	.71	.56	.45	638101000

NEW! RTA Rotary Switch

Dimensions in mm

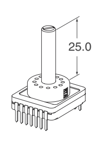

Electrical Specifications:

- Switching Power: 5VA maximum
- Switching Current: 150mA maximum
- Carrying Current: 5A maximum
- Nominal Voltage @ 50Hz: 60V
- Number of Operations: 10,000

Environmental Specifications:

- Operating Temperature: -20°C ~ 70°C

No. of Poles	No. of Pos.	Actu-ator	Terminal	Bushing	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
DP	6	25N	PCB	—	CKN9889-ND	8.45	6.76	5.36	4.23	RTAP32S06W25NS
Stop Pin for RTA					CKN10063-ND	.12	.10	.08	.06	Y200300200P

RoTa-Slide® Rotary Switches

R-Series

Specifications:

- Contact Rating: 5 Amps at 125VAC; 2.5 Amps at 250VAC; 0.5 Amps at 125VDC
- Electrical Life: 10,000 make-and-break cycles at full load
- Indexing: 36°
- Operating and Storage Temperature: -30°C ~ 95°C

Dimensions in mm

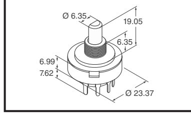

Actuator 15

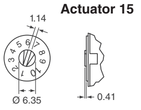

Actuator 05

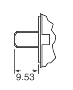

Actuator 07

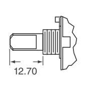

No. of Poles	No. of Pos.	Actu-ator	Terminal	Bushing	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
SP	10	15	PCB	—	CKN9478-ND	4.57	3.66	2.90	2.29	R10015RS02Q
SP	3	05	PCB	—	CKN9479-ND	3.25	2.61	2.06	1.63	R10305RN02Q
SP	3	07	PCB	—	CKN9887-ND ✔	3.05	2.44	1.94	1.53	R10307RN02Q
SP	8	15	PCB	—	CKN9480-ND	4.34	3.47	2.75	2.17	R10815RS02Q
DP	3	07	PCB	—	CKN9888-ND ✔	4.03	3.23	2.56	2.02	R20307RN02Q
DP	4	05	PCB	—	CKN10133-ND ✔	4.44	3.55	2.82	2.22	R20405RN02Q
DP	4	07	PCB	—	CKN10134-ND ✔	4.23	3.39	2.69	2.12	R20407RN02Q
DP	4	07	PCB	3/8-32	CKN9481-ND	4.54	3.64	2.88	2.27	R20407RR02Q
DP	4	07	Solder Lug	3/8-32	CKN9482-ND	4.54	3.64	2.88	2.27	R20407RR03Q
DP	5	07	PCB	3/8-32	CKN9483-ND	4.71	3.77	2.99	2.36	R20507RR02Q
DP	5	15	PCB	—	CKN10135-ND ✔	4.78	3.83	3.03	2.39	R20515RS02Q

✔ ***NEW!***

DIP Switches

SDA Low Profile Features: • Low profile design saves space • High pressure contact does not require tape sealing **Specifications:** • Contact Rating: 25mA @ 24VDC or 100mA @ 50VDC • Mechanical and Electrical Life: 1,000 cycles at rated loads • Operating Temperature: -20°C ~ 85°C

BPA Side Actuated Features: • High pressure contact system does not require tape seal **Specifications:** • Contact Rating: 100mA maximum @ 5VDC or 25mA maximum • Mechanical and Electrical Life: 1,000 cycles minimum @ 5VDC, 10mA • Operating Temperature: -20°C ~ 85°C

SP Single In-line Features: • Thin Single In-line Packaging saves PCB space • Retention feature holds part to PCB prior to soldering • High pressure contact system does not require tape sealing **Specifications:** • Contact Rating: 100mA • Mechanical and Electrical Life: 1,000 cycles minimum • Operating Temperature: -20°C ~ 85°C

BD Standard Profile Features: • Traditional full profile DIP switch • Extended actuator for easy actuation • Open bottom construction allows for solder washing without the need for tape seal **Specifications:** • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 10,000 cycles at full load • Operating Temperature: -40°C ~ 85°C

BP Side Actuated Features: • When actuated, contacts remain below top of switch • Ideal for applications where space is limited **Specifications:** • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 2,000 cycles - Gold contacts, 1,000 cycles - Tin contacts • Operating Temperature: -20°C ~ 60°C

SD Low Profile Features: • Low profile design saves space • Sealed with top tape **Specifications:** • Contact Rating: 100mA @ 50VDC maximum • Mechanical and Electrical Life: 2,000 cycles at full load • Operating Temperature: -20°C ~ 85°C

TDA Half-pitch Ultra-mini SMT Specifications: • Contact Rating: 50VDC, 100mA • Mechanical and Electrical Life: 1,000 cycles • Operating Temperature: -20°C ~ 85°C

TDP Half-pitch Side Actuated Features: • World's first ultra-miniature SMT half-pitch side-actuated DIP • Side actuation allows visual indication of on/off position in horizontal applications • Process sealed for surface mount soldering and washable processing **Specifications:** • Contact Rating: 25mA @ 24VDC or 100mA @ 50VDC • Mechanical and Electrical Life: 1,000 cycles • Operating Temperature: -20°C ~ 85°C

Fig. 1

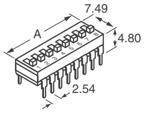

Fig. 2

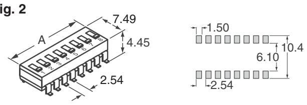

Fig. 3

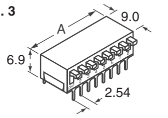

Fig. 4

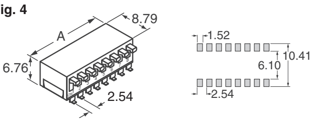

Fig. 5

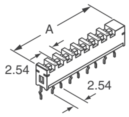

Fig. 6

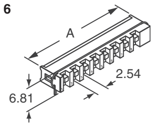

Fig. 7

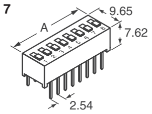

Fig. 8

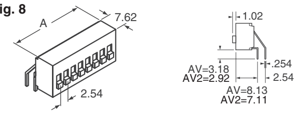

Fig. 9

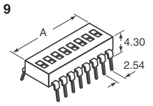

Fig. 10

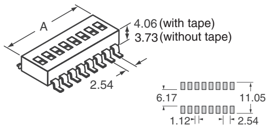

PCB Land Pattern

Fig. 11

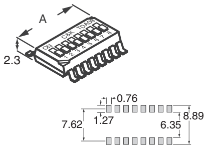

Fig. 12

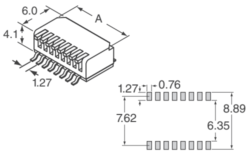

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Price Each			C&K Part No.
				1	25	100	
DIP Top Slide with Extended Actuator – Unsealed							
1	2	7.06	CKN6055-ND	.98	.79	.63	SDA02H1BD
	3	9.60	CKN6061-ND	1.20	.97	.77	SDA03H1BD
	4	12.10	CKN6067-ND	1.27	1.02	.81	SDA04H1BD
	5	14.68	CKN6073-ND	1.33	1.07	.85	SDA05H1BD
	6	17.18	CKN6079-ND	1.37	1.10	.87	SDA06H1BD
	7	19.76	CKN6085-ND	1.46	1.18	.93	SDA07H1BD
	8	22.26	CKN6091-ND	1.63	1.31	1.03	SDA08H1BD
	9	24.84	CKN6096-ND	1.79	1.44	1.14	SDA09H1BD
	10	27.34	CKN6102-ND	1.92	1.54	1.22	SDA10H1BD
	12	32.50	CKN6108-ND	2.11	1.69	1.34	SDA12H1BD
DIP Top Slide with Flush Actuator – Unsealed							
1	2	7.06	CKN6052-ND	.98	.79	.63	SDA02H0BD
	2	7.06	CKN6051-ND	1.13	.90	.72	SDA02H0B
	3	9.60	CKN6058-ND	1.20	.97	.77	SDA03H0BD
	4	12.10	CKN6064-ND	1.27	1.02	.81	SDA04H0BD
	5	14.68	CKN6070-ND ***NEW!***	1.33	1.07	.85	SDA05H0BD
	6	17.18	CKN6076-ND	1.37	1.10	.87	SDA06H0BD
	7	19.76	CKN6082-ND	1.46	1.18	.93	SDA07H0BD
	8	22.26	CKN6088-ND	1.63	1.31	1.03	SDA08H0BD
	10	27.34	CKN6099-ND	1.92	1.54	1.22	SDA10H0BD
	12	32.50	CKN6105-ND	2.11	1.69	1.34	SDA12H0BD
DIP Top Slide with Flush Actuator – Tape Sealed							
1	4	12.10	CKN6063-ND	1.40	1.12	.89	SDA04H0B
	5	14.68	CKN6069-ND	1.46	1.18	.93	SDA05H0B
	6	17.18	CKN6075-ND	1.53	1.23	.97	SDA06H0B
	8	22.26	CKN6087-ND	1.79	1.44	1.14	SDA08H0B
	10	27.34	CKN6098-ND	2.08	1.67	1.32	SDA10H0B
	12	32.50	CKN6104-ND	2.24	1.80	1.43	SDA12H0B
SMT Top Slide with Extended Actuator – Unsealed							
2	2	7.06	CKN6056-ND	1.43	1.15	.91	SDA02H1SBD
	3	9.60	CKN6062-ND	1.76	1.41	1.12	SDA03H1SBD
	4	12.10	CKN6068-ND	1.85	1.49	1.18	SDA04H1SBD
	5	14.68	CKN6074-ND	2.02	1.62	1.28	SDA05H1SBD
	6	17.18	CKN6080-ND	2.15	1.72	1.36	SDA06H1SBD
	7	19.76	CKN6086-ND	2.15	1.72	1.36	SDA07H1SBD
	8	22.26	CKN6092-ND	2.34	1.88	1.49	SDA08H1SBD
	9	24.84	CKN6097-ND	2.60	2.09	1.65	SDA09H1SBD
	10	27.34	CKN6103-ND	2.76	2.22	1.75	SDA10H1SBD
	12	32.50	CKN6109-ND	3.06	2.45	1.94	SDA12H1SBD
SMT Top Slide with Flush Actuator – Unsealed							
2	1	4.52	CKN9490CT-ND§	1.17	.94	.92	SDA01H0SBR
	1	4.52	CKN9490TR-ND▲	1050.30/1500			SDA01H0SBR
	2	7.06	CKN6054-ND	1.43	1.15	.91	SDA02H0SBD
	2	7.06	CKN9491CT-ND§	1.77	1.42	1.13	SDA02H0SBR
	2	7.06	CKN9491TR-ND▲	796.50/750			SDA02H0SBR
	3	9.60	CKN6060-ND	1.76	1.41	1.12	SDA03H0SBD
	3	9.60	CKN9492CT-ND§	2.16	1.86	1.55	SDA03H0SBR
	3	9.60	CKN9492TR-ND▲	834.30/750			SDA03H0SBR
	4	12.10	CKN6066-ND	1.85	1.49	1.18	SDA04H0SBD
	4	12.10	CKN9493CT-ND§	1.91	1.53	1.22	SDA04H0SBR
	4	12.10	CKN9493TR-ND▲	859.95/750			SDA04H0SBR
	5	14.68	CKN6072-ND	1.92	1.54	1.22	SDA05H0SBD
	5	14.68	CKN9494CT-ND§	2.00	1.60	1.27	SDA05H0SBR
	5	14.68	CKN9494TR-ND▲	897.75/750			SDA05H0SBR
	6	17.18	CKN6078-ND	2.02	1.62	1.28	SDA06H0SBD
	6	17.18	CKN9495CT-ND§	2.08	1.67	1.32	SDA06H0SBR
	6	17.18	CKN9495TR-ND▲	935.55/750			SDA06H0SBR
	7	19.76	CKN9496CT-ND§	2.16	1.74	1.37	SDA07H0SBR
	7	19.76	CKN9496TR-ND▲	973.35/750			SDA07H0SBR
	8	22.26	CKN6090-ND	2.34	1.88	1.49	SDA08H0SBD
	8	22.26	CKN9497CT-ND§	2.36	1.89	1.50	SDA08H0SBR
	8	22.26	CKN9497TR-ND▲	1062.45/750			SDA08H0SBR
	9	24.84	CKN9498CT-ND§	2.58	2.07	1.64	SDA09H0SBR
	9	24.84	CKN9498TR-ND▲	1162.35/750			SDA09H0SBR
	10	27.34	CKN6101-ND	2.76	2.22	1.75	SDA10H0SBD
2	10	27.34	CKN9499CT-ND§	2.70	2.16	1.71	SDA10H0SBR
	10	27.34	CKN9499TR-ND▲	1213.65/750			SDA10H0SBR
	12	32.50	CKN6107-ND	3.06	2.45	1.94	SDA12H0SBD
	12	32.50	CKN9500CT-ND§	2.95	2.36	1.87	SDA12H0SBR
	12	32.50	CKN9500TR-ND▲	1327.05/750			SDA12H0SBR
SMT Top Slide with Flush Actuator – Tape Sealed							
2	2	7.06	CKN6053-ND	1.57	1.26	1.00	SDA02H0SB
	3	9.60	CKN6059-ND	1.92	1.54	1.22	SDA03H0SB
	4	12.10	CKN6065-ND	1.98	1.59	1.26	SDA04H0SB
	5	14.68	CKN6071-ND	2.08	1.67	1.32	SDA05H0SB
	6	17.18	CKN6077-ND	2.18	1.75	1.38	SDA06H0SB
	7	19.76	CKN6083-ND	2.28	1.83	1.45	SDA07H0SB
	8	22.26	CKN6089-ND	2.50	2.01	1.59	SDA08H0SB
	9	24.84	CKN6094-ND	2.76	2.22	1.75	SDA09H0SB
	10	27.34	CKN6100-ND	2.90	2.32	1.84	SDA10H0SB
	12	32.50	CKN6106-ND	3.19	2.55	2.02	SDA12H0SB
Side Actuated DIP – Unsealed							
3	2	7.11	CKN6138-ND	1.30	1.05	.83	BPA02B
	4	12.19	CKN6140-ND	1.59	1.28	1.01	BPA04B
	5	14.68	CKN6142-ND	1.69	1.36	1.08	BPA05B
	6	17.30	CKN6144-ND	1.89	1.51	1.20	BPA06B
	8	22.30	CKN6146-ND	1.95	1.56	1.24	BPA08B
	10	27.43	CKN6148-ND	2.21	1.77	1.41	BPA10B
SMT Side Actuated DIP – Unsealed							
4	2	7.11	CKN6139-ND	1.43	1.14	.91	BPA02SB
	4	12.19	CKN6141-ND	1.76	1.41	1.12	BPA04SB
	5	14.68	CKN6143-ND	1.85	1.49	1.18	BPA05SB
	6	17.30	CKN6145-ND	2.08	1.67	1.32	BPA06SB
	8	22.30	CKN6147-ND	2.15	1.72	1.36	BPA08SB
	9	24.8	CKN10207-ND ***NEW!***	2.34	1.88	1.49	BPA09SB
	10	27.43	CKN6149-ND	2.44	1.96	1.55	BPA10SB
Top Slide Single In-Line SIP – Unsealed							
5	2	8.28	CKN9438-ND	2.44	1.96	1.55	SPA02B
	4	13.36	CKN9440-ND	2.91	2.33	1.85	SPA04B
	6	18.44	CKN9442-ND	3.39	2.72	2.15	SPA06B
	8	23.52	CKN9444-ND	3.94	3.16	2.50	SPA08B
	10	28.60	CKN9446-ND	4.97	3.98	3.15	SPA10B
Right Angle Single In-Line SIP – Unsealed							
6	2	8.28	CKN9437-ND	3.42	2.74	2.17	SPA02AB
	4	13.36	CKN9439-ND	3.84	3.07	2.44	SPA04AB
	6	18.44	CKN9441-ND	4.62	3.70	2.93	SPA06AB
	8	23.52	CKN9443-ND	5.07	4.06	3.22	SPA08AB
	10	28.60	CKN9445-ND	5.48	4.39	3.48	SPA10AB
Top Slide, Extended Actuator – Unsealed							
7	1	4.57	CKN6012-ND	1.17	.94	.75	BD01
	2	7.11	CKN3001-ND	1.69	1.36	1.08	BD02
	3	9.65	CKN3002-ND	1.69	1.36	1.08	BD03
	4	12.19	CKN3003-ND	1.85	1.49	1.18	BD04
	5	14.73	CKN3004-ND	1.88	1.51	1.20	BD05
	6	17.27	CKN3005-ND	1.94	1.56	1.24	BD06
	7	19.81	CKN3006-ND	2.04	1.64	1.30	BD07
	8	22.35	CKN3007-ND	2.11	1.69	1.34	BD08
	9	24.89	CKN3008-ND	2.20	1.77	1.40	BD09
	10	27.43	CKN3009-ND	2.27	1.82	1.44	BD10
	12	32.51	CKN3010-ND	2.42	1.94	1.54	BD12
Right Angle Slide, Extended Actuator – Unsealed							
8	2	7.11	CKN3011-ND	2.93	2.34	1.86	BD02AV
	2	7.11	CKN6013-ND	2.93	2.34	1.86	BD02AV2
	3	9.65	CKN3012-ND	2.93	2.34	1.86	BD03AV
	4	12.19	CKN3013-ND	3.09	2.48	1.96	BD04AV
	4	12.19	CKN6014-ND	3.09	2.48	1.96	BD04AV2
	5	14.73	CKN3014-ND	3.12	2.50	1.98	BD05AV
	5	14.73	CKN6015-ND	3.12	2.50	1.98	BD05AV2
	6	17.27	CKN3015-ND	3.22	2.58	2.04	BD06AV
	6	17.27	CKN6016-ND	3.22	2.58	2.04	BD06AV2
	7	19.81	CKN3016-ND	3.29	2.63	2.09	BD07AV
	8	22.35	CKN3017-ND	3.35	2.68	2.13	BD08AV
	8	22.35	CKN6017-ND	3.35	2.68	2.13	BD08AV2
8	9	24.89	CKN3018-ND	3.45	2.76	2.19	BD09AV
	10	27.43	CKN3019-ND	3.51	2.81	2.23	BD10AV
	12	32.51	CKN3020-ND	3.68	2.94	2.33	BD12AV
Low Profile Auto Insert – Tape Sealed							
9	2	6.55	CKN6110-ND	1.49	1.20	.95	SD02H0B
	3	9.09	CKN6113-ND	1.56	1.25	.99	SD03H0B
	4	11.63	CKN6115-ND	1.88	1.51	1.20	SD04H0B
	5	14.17	CKN6118-ND	1.97	1.58	1.25	SD05H0B
	6	16.71	CKN6120-ND	2.04	1.64	1.30	SD06H0B
	7	19.25	CKN6122-ND	2.16	1.73	1.37	SD07H0B
	8	21.79	CKN6125-ND	2.40	1.92	1.52	SD08H0B
	9	24.33	CKN6131-ND	2.59	2.08	1.65	SD09H0B
	10	26.87	CKN6133-ND	2.79	2.24	1.77	SD10H0B
	12	31.95	CKN6136-ND	3.02	2.42	1.92	SD12H0B
Low Profile Auto Insert – Flush Actuator – Tape Sealed							
10	8	21.79	CKN6127-ND†	3.14	2.52	1.99	SD08H0SBD
	8	21.79	CKN6128CT-ND§	3.38	3.13	2.87	SD08H0SBR
	8	21.79	CKN6128TR-ND▲	1561.50/1,000			SD08H0SBR
Low Profile Auto Insert – Extended Actuator – Tape Sealed							
10	2	6.55	CKN6112-ND	2.10	1.69	1.34	SD02H1SB
	4	11.63	CKN6117-ND	1.42	1.14	.90	SD04H1SB
	7	19.25	CKN6124-ND	3.06	2.46	1.94	SD07H1SB
	8	21.79	CKN6129-ND	3.34	2.68	2.12	SD08H1SB
	8	21.79	CKN6130-ND†	3.14	2.52	1.99	SD08H1SBD
	10	26.87	CKN6135-ND	3.89	3.12	2.47	SD10H1SB
Low Profile SMD – Tape Sealed							
10	2	6.55	CKN6111-ND	2.10	1.69	1.34	SD02H0SB
	3	9.09	CKN6114-ND	2.21	1.77	1.40	SD03H0SB
	4	11.63	CKN6116-ND	2.67	2.14	1.70	SD04H0SB
	5	14.17	CKN6119-ND	2.79	2.24	1.77	SD05H0SB
	6	16.71	CKN6121-ND	2.91	2.33	1.85	SD06H0SB
	7	19.25	CKN6123-ND	1.58	1.27	1.01	SD07H0SB
	8	21.79	CKN6126-ND	3.34	2.68	2.12	SD08H0SB
	9	24.33	CKN6132-ND	3.69	2.96	2.34	SD09H0SB
	10	26.87	CKN6134-ND	3.89	3.12	2.47	SD10H0SB
	12	31.95	CKN6137-ND	4.28	3.43	2.72	SD12H0SB
Half Pitch SMD – Tape Sealed							
11	2	3.67	CKN9064-ND	2.21	1.77	1.41	TDA02H0SB1
	2	3.67	CKN9501CT-ND§	2.64	2.44	2.24	TDA02H0SB1R
	2	3.67	CKN9501TR-ND▲	2919.60/2,000			TDA02H0SB1R
	4	6.21	CKN9065-ND	2.34	1.87	1.49	TDA04H0SB1
	4	6.21	CKN9502CT-ND§	2.56	2.05	1.63	TDA04H0SB1R
	4	6.21	CKN9502TR-ND▲	3070.80/2,000			TDA04H0SB1R
	6	8.75	CKN9066-ND	2.78	2.23	1.77	TDA06H0SB1
	6	8.75	CKN9503CT-ND§	3.25	3.00	2.75	TDA06H0SB1R
	6	8.75	CKN9503TR-ND▲	3600.00/2,000			TDA06H0SB1R
	8	11.29	CKN9067-ND	3.22	2.58	2.04	TDA08H0SB1
	8	11.29	CKN9504CT-ND§	3.70	3.42	3.13	TDA08H0SB1R
	8	11.29	CKN9504TR-ND▲	4093.20/2,000			TDA08H0SB1R
	10	13.83	CKN9068-ND	4.75	3.81	3.01	TDA10H0SB1
	10	13.83	CKN9505CT-ND§	4.93	3.95	3.12	TDA10H0SB1R
	10	13.83	CKN9505TR-ND▲	5911.20/2,000			TDA10H0SB1R
SMD Half Pitch Side Actuated – Tape Sealed							
12	2	3.67	CKN9419-ND	2.16	1.73	1.37	TDP02H0SBD1
	4	6.21	CKN9420-ND	2.45	1.97	1.56	TDP04H0SBD1
	8	11.29	CKN9421-ND	3.71	2.98	2.36	TDP08H0SBD1
SMD Half Pitch Side Actuated							
12	2	3.67	CKN9422-ND	2.31	1.85	1.47	TDP02H0SB1
	4	6.21	CKN9423-ND	2.60	2.08	1.65	TDP04H0SB1
	8	11.29	CKN9424-ND	3.75	3.00	2.38	TDP08H0SB1
SMD Half Pitch Side Actuated — Extended Actuator – Tape Sealed							
12	2	3.67	CKN9425-ND	2.16	1.73	1.37	TDP02H1SBD1
	4	6.21	CKN9426-ND	2.45	1.97	1.56	TDP04H1SBD1
	8	11.29	CKN9427-ND	3.71	2.98	2.36	TDP08H1SBD1

† No Epoxy Seal § Cut Tape ▲ Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON Rotary DIP Switches

Digi-Reel® RoHS COMPLIANT

LIFE EXPECTANCY: • **Mechanical:** 10,000 operations minimum (A6R 5,000) • **Electrical:** 2,000 operations minimum • **Contact Resistance:** 200mΩ.

Fig. 1

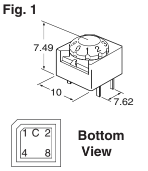

Fig. 2

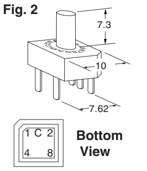

Fig. 3

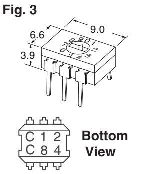

Fig. 4

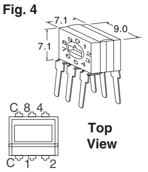

Fig. 5

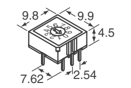

Fig. 6

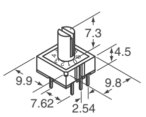

Fig. 7

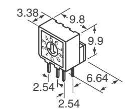

Fig. 8

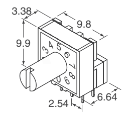

Fig. 9

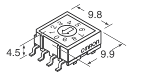

Fig. 10

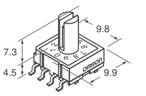

TERMINAL ARRANGEMENT

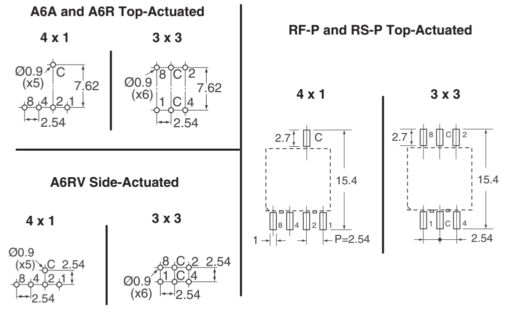

Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	Switching Capacity VDC	Terminal Arrange-ment	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
1	10	BCD	100	28	4 x 1	SW220-ND	5.73	5.16	4.59	4.13	A6A-10R
	16	Hexdec.	100	28	4 x 1	SW221-ND	5.95	5.36	4.76	4.29	A6A-16R
	16	Hexcomp.	100	28	4 x 1	SW894-ND	5.29	4.76	4.24	3.81	A6A-16C
2	10	BCD	100	28	4 x 1	SW214-ND	6.50	5.85	5.20	4.68	A6A-10RS
	16	Hexdec.	100	28	4 x 1	SW215-ND	6.77	6.10	5.42	4.88	A6A-16RS
	10	BCD	100	28	4 x 1	SW222-ND	7.19	6.48	5.76	5.18	A6A-10RW
	16	Hexdec.	100	28	4 x 1	SW223-ND	7.42	6.68	5.94	5.35	A6A-16RW
	16	Hexcomp.	100	28	4 x 1	SW895-ND	7.42	6.68	5.94	5.35	A6A-16CW
3	10	BCD	100	30	4 x 1	SW216-ND	3.98	3.58	3.18	2.87	A6C-10R(N)
	16	Hexdec.	100	30	4 x 1	SW217-ND	4.20	3.78	3.36	3.03	A6C-16R(N)
4	10	BCD	100	30	4 x 1	SW218-ND	5.47	4.93	4.38	3.95	A6CV-10R
	16	Hexdec.	100	30	4 x 1	SW219-ND	5.78	5.21	4.63	4.17	A6CV-16R
5	10	BCD	25	24	4 x 1	SW917-ND	3.44	3.10	2.75	2.48	A6R-101RF
	16	Hexdec.	25	24	4 x 1	SW921-ND	3.67	3.31	2.94	2.65	A6R-161RF
	10	BCD	25	24	3 x 3	SW751-ND	3.44	3.10	2.75	2.48	A6R-102RF
	16	Hexdec.	25	24	3 x 3	SW752-ND	3.67	3.31	2.94	2.65	A6R-162RF
6	10	BCD	25	24	4 X 1	SW918-ND	3.78	3.41	3.03	2.73	A6R-101RS
	16	Hexdec.	25	24	4 X 1	SW922-ND	4.01	3.62	3.21	2.89	A6R-161RS
	10	BCD	25	24	3 x 3	SW753-ND	3.78	3.41	3.03	2.73	A6R-102RS
	16	Hexdec.	25	24	3 x 3	SW754-ND	4.01	3.62	3.21	2.89	A6R-162RS
7	10	BCD	25	24	4 x 1	SW923-ND	3.90	3.51	3.12	2.81	A6RV-101RF
	16	Hexdec.	25	24	4 x 1	SW925-ND	4.13	3.72	3.31	2.98	A6RV-161RF
	10	BCD	25	24	3 x 3	SW755-ND	3.90	3.51	3.12	2.81	A6RV-102RF
	16	Hexdec.	25	24	3 x 3	SW756-ND	4.13	3.72	3.31	2.98	A6RV-162RF

Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	Switching Capacity VDC	Terminal Arrange-ment	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
8	10	BCD	25	24	4 x 1	SW924-ND	4.24	3.82	3.40	3.06	A6RV-101RS
	16	Hexdec.	25	24	4 x 1	SW926-ND	4.47	4.03	3.58	3.22	A6RV-161RS
	10	BCD	25	24	3 x 3	SW757-ND	4.24	3.82	3.40	3.06	A6RV-102RS
	16	Hexdec.	25	24	3 x 3	SW758-ND	4.47	4.03	3.58	3.22	A6RV-162RS

Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	Switching Capacity VDC	Terminal Arrange-ment	Digi-Key Part No.	Cut Tape Price Each 2	24	50	100	Omron Part No.
9	10	BCD	25	24	4 x 1	SW1024CT-ND	3.27	2.94	2.61	2.35	A6RS-101RF-P
	10	BCD	25	24	4 x 1	SW1024TR-ND†	1223.44/750				A6RS-101RF-P
	10	BCD	25	24	3 x 3	SW1025CT-ND	3.27	2.94	2.61	2.35	A6RS-102RF-P
	10	BCD	25	24	3 x 3	SW1025TR-ND†	1223.44/750				A6RS-102RF-P
	16	Hexdec.	25	24	4 x 1	SW1026CT-ND	3.49	3.14	2.79	2.51	A6RS-161RF-P
	16	Hexdec.	25	24	4 x 1	SW1026TR-ND†	1306.41/750				A6RS-161RF-P
	16	Hexdec.	25	24	3 x 3	SW1027CT-ND	3.49	3.14	2.79	2.51	A6RS-162RF-P
	16	Hexdec.	25	24	3 x 3	SW1027TR-ND†	1306.78/750				A6RS-162RF-P
10	10	BCD	25	24	4 x 1	SW1028CT-ND	3.67	3.31	2.94	2.65	A6RS-101RS-P
	10	BCD	25	24	3 x 3	SW1029CT-ND	3.67	3.31	2.94	2.65	A6RS-102RS-P
	10	BCD	25	24	3 x 3	SW1029TR-ND†	458.84/250				A6RS-102RS-P
	16	Hexdec.	25	24	4 x 1	SW1030CT-ND	3.90	3.51	3.12	2.81	A6RS-161RS-P
	16	Hexdec.	25	24	4 x 1	SW1030TR-ND†	486.94/250				A6RS-161RS-P
	16	Hexdec.	25	24	3 x 3	SW1031CT-ND	3.90	3.51	3.12	2.81	A6RS-162RS-P

† Tape and Reel

BOURNS® SMD Momentary Key Switches

Digi-Reel® RoHS COMPLIANT

Electrical Characteristics: • Contact Rating: Maximum Current: 100mA; Maximum Voltage: 24V • Contact Resistance: 100mΩ Maximum • Insulation Resistance: 100MΩ Minimum (DC500V)

General Characteristics: • Switch Type: Normally Open • Operating Temperature Range: -55°C ~ 125°C • Dielectric Strength: 250VAC

Mechanical Characteristics: • Cycle Life, Loaded: 10,000 actuations

Dimensions in mm

Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	1,000	5,000
J-Hook	7914J-000ECT-ND	.95	.84	.71	7914J-000ETR-ND	270.00	473.00	405.00/M
Gull Wing	7914G-000ECT-ND	.95	.84	.71	7914G-000ETR-ND	270.00	473.00	405.00/M

J-Hook

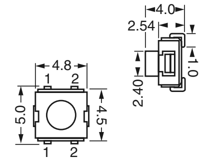

Gull Wing

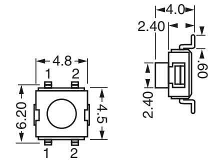

PCB Layout

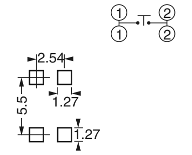

Sealed Selector Switches

Digi-Reel® RoHS COMPLIANT

Electrical Characteristics:

- Contact Rating: Maximum Current: 100mA; Maximum Voltage: 24V • Contact Timing: Non-Shorting • Contact Resistance: 2Ω Maximum • Insulation Resistance: 100MΩ Minimum (DC500V) • Dielectric Strength: 250VAC

General Characteristics:

- Switch Type: SPDT • Operating Temperature Range: -55°C ~ 125°C

Dimensions in mm

Fig.	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	1,000
1	3	7813J-051ECT-ND	2.10	1.86	1.56	7813J-051ETR-ND	—	1050.00
	3	7813J-023ECT-ND	2.31	2.05	1.72	7813J-023ETR-ND	—	1155.00
2	4	7814G-051ECT-ND	2.10	1.86	1.56	7814G-051ETR-ND	600.00	1050.00
	4	7814G-023ECT-ND	2.31	2.05	1.72	7814G-023ETR-ND	660.00	1155.00
3	4	7814J-051ECT-ND	2.10	1.86	1.56	7814J-051ETR-ND	600.00	1050.00
	4	7814J-023ECT-ND	2.31	2.05	1.72	7814J-023ETR-ND	660.00	1155.00

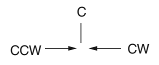

Fig. 1 — 7813J

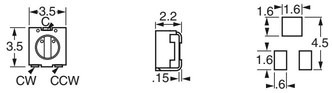

- Mechanical Angle: 245°C ±15° • Positions: 2 • Adjustment Torque: 50g. cm max. • Stop Strength: 200g. cm min. • Switching Angle: 45° ±5° • Seal Test: 85°C Flouriner • Rotational Life: **-051:** 50 cycles; **-023:** 2,000 cycles
- Max. Soldering Heat: 260°C, 5 seconds

Fig. 2 — 7814G

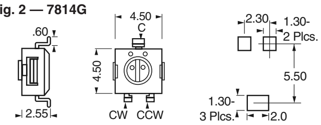

Fig. 3 — 7814J

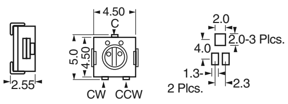

- Mechanical Angle: 240° ±15° • Positions: 2 • Adjustment Torque: 180g. cm max. • Stop Strength: 300g. cm min. • Switching Angle: 45° ±5° • Pushover Strength *(S Style)*: 2 kilograms min. • Rotational Life: **-051:** 50 cycles; **-023:** 2,000 cycles • Max. Soldering Heat: 260°C, 10 seconds

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

APEM

Rotary DIP Switches

PT65 Series

Features: • 3 + 3 terminal layout • Completely sealed for process compatibility • Precision designed detent action • High reliability and long life • Clockwise or counterclockwise settable • Solder coated terminals

General Specification: • Operating Voltage: 24VDC max. • Contact Rating, Static: 400mA max. • Initial Contact Resistance: <80 milliohms • Operating Temperature Range: -20°C ~ 70°C

P36 and P36S Series

Features: • 3 + 3 terminal layout • Completely sealed for process compatibility • Ultra-compact size with 10 or 16 positions • Precision designed detent action • High reliability and long life • Clockwise or counterclockwise settable • Solder coated terminals

General Specification: • Operating Voltage: 24VDC max. • Contact Rating, Static: 400mA max. • Initial Contact Resistance: <100 milliohms • Operating Temperature Range: -30°C ~ 90°C

Dim. in mm

Fig. 1

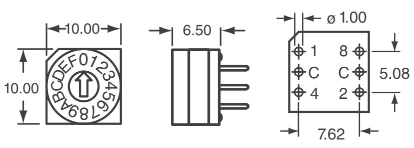

Fig. 2

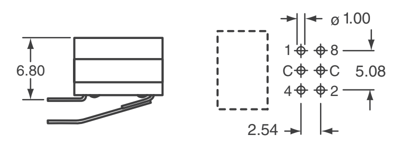

Fig. 3

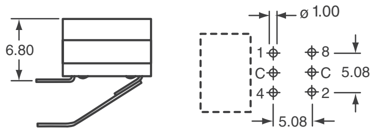

Fig. 4

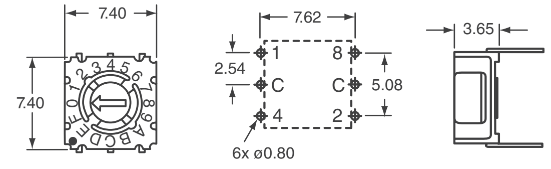

Fig. 5

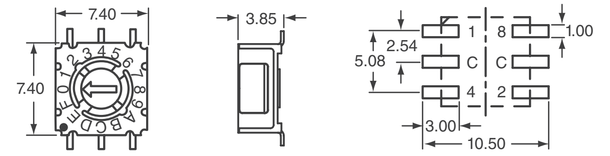

Fig.	Code	Number of Positions	Termination	Actuator	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
				PT65 Series					
1	Binary Coded Decimal	4	Straight	Arrow Slot	679-1918-ND	6.73	6.14	5.55	PT65112
	Decimal	4	Straight	Arrow Slot	679-1921-ND	6.15	5.62	5.07	PT65121
	Octal	8	Straight	Arrow Slot	679-1924-ND	7.38	6.73	6.08	PT65126
	Octal Complement	8	Straight	Arrow Slot	679-1927-ND	7.38	6.73	6.08	PT65127
	Binary Coded Decimal	10	Straight	Arrow Slot	679-1906-ND	4.73	4.31	3.90	PT65101
	Binary Coded Decimal Complement	10	Straight	Arrow Slot	679-1909-ND	5.44	4.96	4.48	PT65102
	Hexadecimal	16	Straight	Arrow Slot	679-1912-ND	5.44	4.96	4.48	PT65103
	Hexadecimal Complement	16	Straight	Arrow Slot	679-1915-ND	6.12	5.58	5.04	PT65106
	Binary Coded Decimal	4	Straight	Spindle	679-1931-ND	8.64	7.88	7.12	PT65312
	Decimal	4	Straight	Spindle	679-1932-ND	8.64	7.88	7.12	PT65321
	Octal	8	Straight	Spindle	679-1933-ND	8.64	7.88	7.12	PT65326
	Octal Complement	8	Straight	Spindle	679-1905-ND	9.01	8.22	7.42	PT65327
	Binary Coded Decimal	10	Straight	Spindle	679-1928-ND	7.92	7.23	6.53	PT65301
	Binary Coded Decimal Complement	10	Straight	Spindle	679-1929-ND	7.92	7.23	6.53	PT65302
	Hexadecimal	16	Straight	Spindle	679-1930-ND	8.50	7.75	7.00	PT65303
	Decimal	4	Straight	Segment Wheel	679-1943-ND	9.01	8.22	7.42	PT65521
	Octal	8	Straight	Segment Wheel	679-1946-ND	9.01	8.22	7.42	PT65526
	Binary Coded Decimal	10	Straight	Segment Wheel	679-1934-ND	7.65	6.98	6.30	PT65501
	Binary Coded Decimal Complement	10	Straight	Segment Wheel	679-1937-ND	7.65	6.98	6.30	PT65502
	Hexadecimal	16	Straight	Segment Wheel	679-1940-ND	8.70	7.94	7.17	PT65503
2	Binary Coded Decimal	4	Right Angle 0.1"	Arrow Slot	679-1919-ND	7.75	7.07	6.39	PT65112L254
	Decimal	4	Right Angle 0.1"	Arrow Slot	679-1922-ND	8.43	7.69	6.95	PT65121L254
	Octal	8	Right Angle 0.1"	Arrow Slot	679-1925-ND	8.43	7.69	6.95	PT65126L254
	Octal Complement	8	Right Angle 0.1"	Arrow Slot	679-1903-ND	8.43	7.69	6.95	PT65127L254
	Binary Coded Decimal	10	Right Angle 0.1"	Arrow Slot	679-1907-ND	5.95	5.43	4.90	PT65101L254
	Binary Coded Decimal Complement	10	Right Angle 0.1"	Arrow Slot	679-1910-ND	6.77	6.17	5.58	PT65102L254
	Hexadecimal	16	Right Angle 0.1"	Arrow Slot	679-1913-ND	7.31	6.67	6.02	PT65103L254
	Hexadecimal Complement	16	Right Angle 0.1"	Arrow Slot	679-1916-ND	7.75	7.07	6.39	PT65106L254
	Decimal	4	Right Angle 0.1"	Segment Wheel	679-1944-ND	10.03	9.15	8.26	PT65521L254
	Octal	8	Right Angle 0.1"	Segment Wheel	679-1947-ND	10.03	9.15	8.26	PT65526L254
	Binary Coded Decimal	10	Right Angle 0.1"	Segment Wheel	679-1935-ND	8.67	7.91	7.14	PT65501L254
	Binary Coded Decimal Complement	10	Right Angle 0.1"	Segment Wheel	679-1938-ND	8.67	7.91	7.14	PT65502L254
	Hexadecimal	16	Right Angle 0.1"	Segment Wheel	679-1941-ND	9.66	8.81	7.96	PT65503L254
3	Binary Coded Decimal	4	Right Angle 0.2"	Arrow Slot	679-1920-ND	7.75	7.07	6.39	PT65112L508
	Decimal	4	Right Angle 0.2"	Arrow Slot	679-1923-ND	8.43	7.69	6.95	PT65121L508
	Octal	8	Right Angle 0.2"	Arrow Slot	679-1926-ND	8.43	7.69	6.95	PT65126L508
	Octal Complement	8	Right Angle 0.2"	Arrow Slot	679-1904-ND	8.43	7.69	6.95	PT65127L508
	Binary Coded Decimal	10	Right Angle 0.2"	Arrow Slot	679-1908-ND	5.95	5.43	4.90	PT65101L508
	Binary Coded Decimal Complement	10	Right Angle 0.2"	Arrow Slot	679-1911-ND	6.77	6.17	5.58	PT65102L508
	Hexadecimal	16	Right Angle 0.2"	Arrow Slot	679-1914-ND	7.31	6.67	6.02	PT65103L508
	Hexadecimal Complement	16	Right Angle 0.2"	Arrow Slot	679-1917-ND	7.75	7.07	6.39	PT65106L508
	Decimal	4	Right Angle 0.2"	Segment Wheel	679-1945-ND	10.03	9.15	8.26	PT65521L508
	Octal	8	Right Angle 0.2"	Segment Wheel	679-1948-ND	10.03	9.15	8.26	PT65526L508
	Binary Coded Decimal	10	Right Angle 0.2"	Segment Wheel	679-1936-ND	8.67	7.91	7.14	PT65501L508
	Binary Coded Decimal Complement	10	Right Angle 0.2"	Segment Wheel	679-1939-ND	8.67	7.91	7.14	PT65502L508
	Hexadecimal	16	Right Angle 0.2"	Segment Wheel	679-1942-ND	9.66	8.81	7.96	PT65503L508
				P36 Series					
4	Binary Coded Decimal	10	Straight	Arrow Slot	679-1949-ND	5.17	4.72	4.26	P36101
	Binary Coded Decimal Complement	10	Straight	Arrow Slot	679-1950-ND	5.17	4.72	4.26	P36102
	Hexadecimal	16	Straight	Arrow Slot	679-1951-ND	5.17	4.72	4.26	P36103
	Hexadecimal Complement	16	Straight	Arrow Slot	679-1952-ND	5.17	4.72	4.26	P36106
				P36S Series					
5	Binary Coded Decimal	10	SMT	Arrow Slot	679-1953-ND	5.00	4.56	4.12	P36S101
	Binary Coded Decimal Complement	10	SMT	Arrow Slot	679-1954-ND	5.64	5.15	4.65	P36S102
	Hexadecimal	16	SMT	Arrow Slot	679-1955-ND	5.98	5.46	4.93	P36S103
	Hexadecimal Complement	16	SMT	Arrow Slot	679-1956-ND	4.73	4.31	3.90	P36S106

NKK SWITCHES

10mm Rotary DIP Switches

Specifications: • Contact Rating (*Switching*): 100mA @5VDC • Contact Rating (*Non-switching*): 100mA @50VDC • Contact Resistance: 100mΩ Maximum • Mechanical Life: 10,000 detent operations Minimum • Electrical Life: 10,000 detent operations minimum • Operating Temperature Range: -25°C ~ 85°C **Materials and Finishes:** • Actuators: Glass fiber reinforced polyamide (UL94V-0) • Movable Contacts: Copper alloy with gold plating • Stationary Contacts: Phosphor bronze with gold plating • Terminals: Phosphor bronze with gold plating
Note: *These devices are not process sealed. Hand clean locally using alcohol based solution.*

Dim. in mm

Thru-Hole

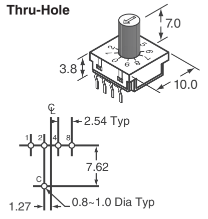

Right Angle

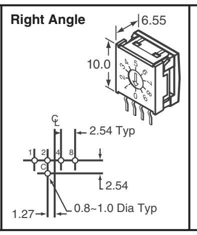

SMT

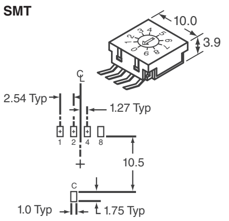

Code	Term-ination	Actuator	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 500	NKK Part No.
BCD	SMT	Flush	360-2211-1-ND†	4.08	3.27	2.59	360-2211-2-ND	986.00	FR02FR10P-R
	Thru-Hole	Flush	360-2198-ND	3.65	2.27	2.06	—	—	FR01FR10P-S
	Thru-Hole	Extended	360-2206-ND	3.65	2.27	2.06	—	—	FR01KR10P-S
	Rt. Angle	Flush	360-2197-ND	4.00	2.49	2.25	—	—	FR01FR10H-S
	Rt. Angle	Extended	360-2205-ND	4.00	2.49	2.25	—	—	FR01KR10H-S
BCD Comp.	SMT	Flush	360-2209-1-ND†	4.08	3.27	2.59	360-2209-2-ND	986.00	FR02FC10P-R
	Thru-Hole	Flush	360-2194-ND	3.65	2.27	2.06	—	—	FR01FC10P-S
	Thru-Hole	Extended	360-2202-ND	3.65	2.27	2.06	—	—	FR01KC10P-S
	Rt. Angle	Flush	360-2193-ND	4.00	2.49	2.25	—	—	FR01FC10H-S
	Rt. Angle	Extended	360-2201-ND	4.00	2.49	2.25	—	—	FR01KC10H-S
Hex	SMT	Flush	360-2212-1-ND†	4.08	3.27	2.59	360-2212-2-ND	986.00	FR02FR16P-R
	Thru-Hole	Flush	360-2200-ND	3.65	2.27	2.06	—	—	FR01FR16P-S
	Thru-Hole	Extended	360-2208-ND	3.65	2.27	2.06	—	—	FR01KR16P-S
	Rt. Angle	Flush	360-2199-ND	4.00	2.49	2.25	—	—	FR01FR16H-S
	Rt. Angle	Extended	360-2207-ND	4.00	2.49	2.25	—	—	FR01KR16H-S
Hex Comp.	SMT	Flush	360-2210-1-ND†	4.08	3.27	2.59	360-2210-2-ND	986.00	FR02FC16P-R
	Thru-Hole	Flush	360-2196-ND	3.65	2.27	2.06	—	—	FR01FC16P-S
	Thru-Hole	Extended	360-2204-ND	3.65	2.27	2.06	—	—	FR01KC16P-S
	Rt. Angle	Flush	360-2195-ND	4.00	2.49	2.25	—	—	FR01FC16H-S
	Rt. Angle	Extended	360-2203-ND	4.00	2.49	2.25	—	—	FR01KC16H-S
Snap-On Knob for Flush Actuators			360-2246-ND	1.12	.62	.52	—	—	AT4180

† Cut Tape

COPAL ELECTRONICS

Low Profile Compact Slide Switches — CUS Series

Features: • Low profile version of 1.4mm **Specifications:** • Operating Temperature Range: -20°C ~ 70°C • Contact Current (*Switching*): 300mA @4VDC • Insulation Resistance: 100MΩ Minimum • Contact Resistance: 70mΩ Maximum **Applications:** • Mobile stereos • LCD TVs • Camcorders

Dim. in mm

Fig. 1

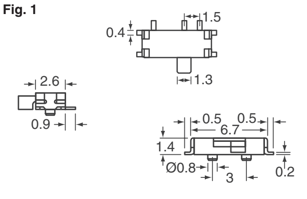

Fig. 2

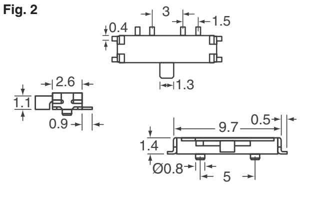

Fig. 3

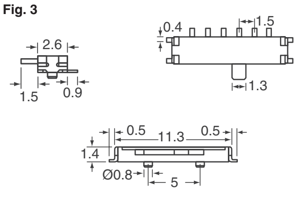

Fig. 4

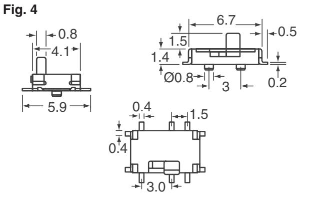

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Copal Electronics Part No.
1	SPDT, Gull Wing	563-1102-1-ND	.85	.79	.73	2,500	393.98/M	CUS-12TB
2	SP3T, Gull Wing	563-1103-1-ND	.89	.82	.76	2,500	409.43/M	CUS-13TB
3	SP4T, Gull Wing	563-1104-1-ND	.97	.90	.83	2,500	448.06/M	CUS-14TB
4	DPDT, Gull Wing	563-1105-1-ND	.92	.85	.78	1,400	424.88/M	CUS-22TB

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Super-Miniature Slide Switches — ASE Series

Features: • High contact reliability • Washable structure • Ideal for extremely small currents • Designed for PC boards • Quality touch • UL approved **Specifications:** • Rating: 50mA @48VAC/DC Maximum • Initial Contact Resistance: 50mΩ Maximum • Electrical Life: 10,000 cycles at maximum rating • Operating Temperature Range: -20°C ~ 85°C

Dim. in mm

Fig. 1

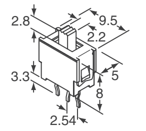

Fig. 2

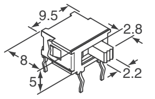

Fig. 3

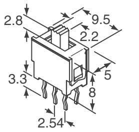

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
1	SPDT ON - ON	563-1151-ND	2.85	2.47	2.14	ASE1D-2M-10-Z
	SPDT ON - OFF - ON	563-1153-ND	2.85	2.47	2.14	ASE1E-2M-10-Z
2	SPDT ON - OFF - ON	563-1154-ND	3.17	2.75	2.38	ASE1E-5M-10-Z
3	DPDT ON - ON	563-1155-ND	3.72	3.23	2.79	ASE2D-2M-10-Z
	DPDT ON - OFF - ON	563-1156-ND	3.72	3.23	2.79	ASE2E-2M-10-Z

Compact Slide Switches — CSS Series

Features: • Low Profile • Self-return type available **Specifications:** • Operating Temperature Range: -20°C ~ 70°C • Switching Current: 100mA @12VDC • Contact Resistance: 70mΩ Maximum • Insulation Resistance: 100MΩ Maximum **Applications:** • Mobile stereo • LCD TV • Camcorder

Dim. in mm

Fig. 1

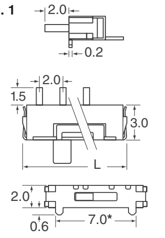

* 10.9mm CSS-13xx

Fig. 2

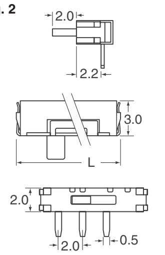

Fig. 3

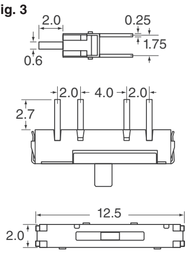

Fig.	Description	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Copal Electronics Part No.
1	SPDT, Gull Wing	8.85	563-1091-1-ND	.74	.68	.63	1,900	339.90/M	CSS-1210TB
	SPDT, Momentary, Gull Wing	8.85	563-1093-1-ND	.47	.45	.41	—	—	CSS-1211TB
	SP3T, Gull Wing	12.5	563-1095-1-ND	.75	.70	.64	1,900	347.63/M	CSS-1310TB
	SP3T, Momentary, Gull Wing	12.5	563-1099-1-ND	.92	.85	.78	1,900	424.88/M	CSS-1312TB
2	SPDT, Through-Hole	8.85	563-1090-ND†	.68	.59	.51	—	—	CSS-1210MC
	SP3T, Through-Hole	12.5	563-1094-ND†	.70	.61	.53	—	—	CSS-1310MC
3	SP3T, Through-Hole	—	563-1100-ND†	.70	.61	.53	—	—	CSS-1300MC

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Slide Switches

CJS Series Features: • Easy to set slider with line marking • Compatible with most automatic pick and place machinery • Compact and space saving SMD type **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (Switching): 6VDC @100mA or 24VDC @25mA • Maximum Contact Resistance: 100mΩ
CRFS Series Features: • Can cover the DC - 1GHz frequency spectrum • Gold-plated contact provides excellent reliability **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Non-washable • Contact Rating (*Non-switching*): 50VDC@100mA • Contact Rating (*Switching*): 12VDC @100mA • Maximum Contact Resistance: 70mΩ

Dim. in mm

Fig. 1

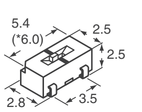

*6.0: CJS-1201TA

Fig. 2

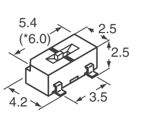

*6.0: CJS-1201TB

Fig. 3

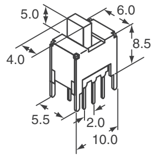

A.

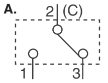

B.

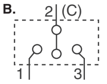

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Copal Electronics Part No.
CJS Series								
1A	SPDT, J-Lead	563-1021-1-ND	.97	.90	.83	1,000	448.05	CJS-1200TA
1B	SPDT, J-Lead with Neutral Detent	563-1023-1-ND	1.26	1.16	1.07	1,000	579.38	CJS-1201TA
2A	SPDT, Gull Wing	563-1022-1-ND	.97	.90	.83	1,000	448.05	CJS-1200TB
2B	SPDT, Gull Wing with Neutral Detent	563-1024-1-ND	1.26	1.16	1.07	1,000	579.38	CJS-1201TB
CRFS Series								
3	DPDT	563-1025-ND‡	3.12	2.71	2.35	—	—	CRFS-2202W

‡ Bulk † For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COPAL ELECTRONICS

Surface Mount Slide Switches — CAS Series

Specifications: • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 6VDC @100mA or 24VDC @25mA • Contact Rating (*Minimum*) 20mVDC @1µA • Contact Resistance: 50mΩ Maximum (1.5mA, 1kHz, 20mV) • Insulation Resistance: 1000MΩ (100VDC) Minimum • Dielectric Strength: 500VAC, 50Hz, 60s

Dim. in mm

Fig. 1

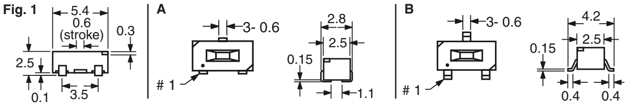

Fig. 2

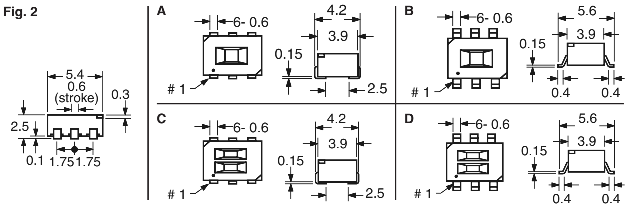

Fig.	No. of Poles	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing† 1,000	Copal Electronics Part No.
1A	2	SPDT, J Hook	CAS120JCT-ND	1.31	1.21	602.55	CAS-120TA
1B	2	SPDT, Gullwing	CAS120GCT-ND	1.31	1.21	602.55	CAS-120TB
2A	2	DPDT, J Hook	CAS220JCT-ND	2.34	2.17	1081.50	CAS-220TA
2B	2	DPDT, Gullwing	CAS220GCT-ND	2.34	2.17	1081.50	CAS-220TB
2C	2	SPDT 2 position J Hook	CASD20JCT-ND	2.34	2.17	1081.50	CAS-D20TA
2D	2	SPDT 2 position Gullwing	CASD20GCT-ND	2.34	2.17	1081.50	CAS-D20TB

† For Tape and Reel part number, change CT-ND to TR-ND.

DIP Switches

CES Series: **Features:** • Excellent contact stability by twin gold-plated contacts • Fine click action • Non-washable **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 6VDC @100mA or 24VDC @25mA • Maximum Contact Resistance: 50mΩ **CHS Series:** **Features:** • Meets EIAJ SOP standard outline dimensions (B type) • Low profile design of 2.5mm • Excellent contact stability by twin gold-plated contact **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 6VDC @100mA or 24VDC @25mA • Maximum Contact Resistance: 50mΩ **CHP Series:** **Features:** • High-reliability • Non-washable **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 6VDC @100mA or 24VDC @25mA • Maximum Contact Resistance: 50mΩ **CVS Series:** **Features:** • Low profile design of 1.45mm • Fine pitch of 1mm • Easy motion with knob height of 0.2mm • Non-washable **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 6VDC,100mA or 24VDC, 25mA • Maximum Contact Resistance: 200mΩ

Dim. in mm

Fig. 1

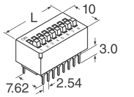

Fig. 2

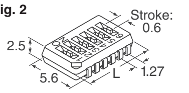

Fig. 3

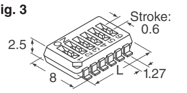

Fig. 4

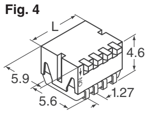

Fig. 5

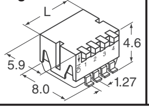

Fig. 6

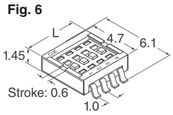

Fig. 7

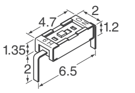

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Copal Electronics Part No.
CES Series, Through-Hole Type									
1	4	12.74	563-1000-5-ND†	1.92	1.66	1.44	—	—	CES-0402MC
	8	22.9	563-1002-5-ND†	2.44	2.12	1.84	—	—	CES-0802MC
CHS Series, J-Lead Type - Half Pitch									
2	1	2.5	563-1003-1-ND	1.10	1.02	.94	1,000	509.85	CHS-01TA
	2	4.1	563-1005-1-ND	2.28	2.11	1.93	500	630.36	CHS-02TA
	4	6.6	563-1007-1-ND	2.51	2.32	2.13	500	695.25	CHS-04TA
	6	9.2	563-1009-1-ND	2.95	2.72	2.50	500	815.76	CHS-06TA
	8	11.7	563-1011-1-ND	3.21	2.97	2.72	500	889.92	CHS-08TA
	10	14.3	563-1013-1-ND	3.55	3.28	3.01	500	982.62	CHS-10TA
CHS Series, Gull Wing Type - Half Pitch									
3	1	2.5	563-1004-1-ND	1.10	1.02	.94	1,000	509.85	CHS-01TB
	2	4.1	563-1006-1-ND	2.28	2.11	1.93	500	630.36	CHS-02TB
	4	6.6	563-1008-1-ND	2.51	2.32	2.13	500	695.25	CHS-04TB
	6	9.2	563-1010-1-ND	2.95	2.72	2.50	500	815.76	CHS-06TB
	8	11.7	563-1012-1-ND	3.21	2.97	2.72	500	889.92	CHS-08TB
	10	14.3	563-1014-1-ND	3.55	3.28	3.01	500	982.62	CHS-10TB
CHP Series, J-Lead Type - Half Pitch									
4	2	4.6	563-1015-1-ND	2.34	2.17	1.99	500	648.90	CHP-021TA
	8	12.2	563-1019-1-ND	3.21	2.97	2.72	500	889.92	CHP-081TA
CHP Series, Gull Wing Type									
5	4	7.1	563-1018-1-ND	2.58	2.38	2.19	500	713.79	CHP-041TB
CVS Series, Gull Wing Type									
6	1	2	563-1192-1-ND	2.61	2.41	2.21	2,000	1205.10/M	CVS-01TB
	2	3	563-1193-1-ND	2.88	2.66	2.44	2,000	1328.70/M	CVS-02TB
	3	4	563-1194-1-ND	2.98	2.75	2.53	2,000	1375.05/M	CVS-03TB
	4	5	563-1041-1-ND	3.18	2.94	2.70	2,000	1467.75/M	CVS-04TB
	8	9	563-1042-1-ND	4.15	3.84	3.52	2,000	1915.80/M	CVS-08TB
CVS Series, Through-Hole Type									
7	1	—	563-1222-ND†	2.50	2.17	1.88	—	—	CVS-01C

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Toggle Switches — ATE Series

Features: • High reliability twin-contact clip mechanism is used in the contact section to ensure reliability • Washable structure • Gold plated contacts make these switches ideal for use with extremely dry circuit applications • UL approved **Specifications:** • Current Rating: 50mA @48VAC Maximum • Initial Contact Resistance: 50mΩ Maximum • Dielectric Strength: 250VAC for 1 minute • Operating Temperature Range: -20˚C ~ 85˚C

Dim. in mm

Fig. 1

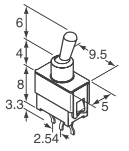

Fig. 2

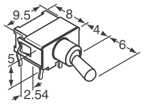

Fig. 3

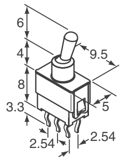

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
1	SPDT ON - ON	563-1157-ND	3.62	3.15	2.72	ATE1D-2M3-10-Z
	SPDT ON - OFF - ON	563-1159-ND	3.62	3.15	2.72	ATE1E-2M3-10-Z
2	SPDT ON - ON	563-1158-ND	3.90	3.39	2.93	ATE1D-5M3-10-Z
3	DPDT ON - ON	563-1162-ND	4.45	3.86	3.34	ATE2D-2M3-10-Z
	DPDT ON - OFF - ON	563-1164-ND	4.45	3.86	3.34	ATE2E-2M3-10-Z
—	Bracket	563-1173-ND	.66	.58	.50	140000640318

Hyper-Miniature Toggle Switches — FT Series

Features: • These switches are of hyper-compact type • Immersion cleaning is possible after soldering • Terminal mounting is at 0.1 inch pitches • Independent detent mechanism provides light feel operability • Long-term stability is assured by the clip contact **Specifications:** • Rating: 28VDC, 0.4VA Maximum • Initial Contact Resistance: 100mΩ Maximum • Electrical Life: 10,000 cycles at Maximum rating • Operating Temperature Range: -40°C ~ 85°C

Dim. in mm

Fig. 1

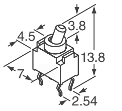

Fig. 2

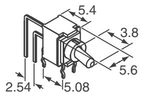

Fig. 3

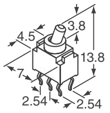

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
1	SPDT ON - ON	563-1142-ND	4.73	4.10	3.55	FT1D-2M-Z
2	SPDT ON - ON	563-1143-ND	4.87	4.22	3.66	FT1D-4M-Z
3	DPDT ON - ON	563-1149-ND	5.55	4.82	4.17	FT2D-2M-Z
	DPDT ON - OFF - ON	563-1150-ND	5.55	4.82	4.17	FT2E-2M-Z

Lever and Rocker Switches

Dim. in mm

ALE Series:

Features: • Twin-contact clip mechanism is used in the contact section to ensure reliability • Washable structure • Gold-plated contacts make these switches ideal for use with extremely dry circuit applications • Independent detent construction provides a light operating touch • UL Approved **Specifications:** • Contact Resistance: 50mΩ Maximum • Rating: 50mA, 48VAC/DC Maximum • Operating Temperature Range: -20°C ~ 85°C

FL Series:

Features: • Ultra-compact type • Immersion cleaning is possible after soldering • Independent detent mechanism provides light feel operability • Long-term stability is assured by the clip contact • Gold-plated contacts make these switches ideal for use with extremely small current **Specifications:** • Contact Resistance: 100mΩ Maximum • Rating: 0.4VA, 28VDC Maximum • Operating Temperature Range: -40°C ~ 85°C

Fig. 1

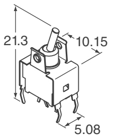

Fig. 2

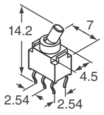

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
ALE Series						
1	SPDT ON - ON	563-1201-ND	4.31	3.74	3.24	ALE1D-2M4-10-Z
	SPDT ON - ON	563-1202-ND	5.14	4.46	3.86	ALE2D-2M4-10-Z
—	Black Lever	563-1203-ND	.83	.72	.62	140000050625
	White Lever	563-1204-ND	.83	.72	.62	140000050624
	Black Rocker	563-1205-ND	.79	.69	.60	140000480674
	White Rocker	563-1206-ND	.79	.69	.60	140000480673
FL Series						
2	SPDT ON - ON	563-1195-ND	5.19	4.50	3.90	FL1D-2M-Z
	DPDT ON - ON	563-1196-ND	6.06	5.26	4.55	FL2D-2M-Z
—	Black Lever	563-1197-ND	.40	.35	.30	140000050860
	White Lever	563-1198-ND	.40	.35	.30	140000050858
	Black Rocker	563-1199-ND	.40	.35	.30	140000481412
	White Rocker	563-1200-ND	.40	.35	.30	140000481410

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COPAL ELECTRONICS

Rotary Switches

CS-4 Series Features: • Optimum for high density board mounting applications • Compatible with reflow and wave soldering • Protection against dust and washable after soldering • Excellent reliability due to precious metal contact **Specifications:** • Operating Temperature Range: -25°C ~ 70°C • Maximum Contact Rating: 0.5VA or 16V @100mA • Maximum Contact Resistance: 100mΩ **CS-7 Series Features:** • Easy position setting with wide switching angle • High digit visibility • Washable **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ **S-1000A/2000A Series Features:** • Pin compatible with conventional DIP switches **Specifications:** • Operating Temperature Range: -25°C ~ 70°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ **S-8000 Series Features:** • 3 bits, 8 position type • Protection against dust and washable after soldering • DIP pin configuration: 2.54mm pitch **Specifications:** • Operating Temperature Range: -25°C ~ 70°C • Stepping Angle: 45° • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ **SD-1000/2000 Series Features:** • Fine click with metallic spring • Low profile of 3.9mm makes it perfect for high density board mounting applications • Gold-plated contact provides excellent reliability • Non-washable **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ **SS-10/S-2050 Series Features:** • Compact-size DIP pin configuration • Protection against dust and washable after soldering • Self-cleaning mechanism **Specifications:** • Operating Temperature Range: -25°C ~ 70°C • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ **SH-7000 Series Features:** • Center Common terminal pins location • High digit visibility • Washable **Specifications:** • Operating Temperature Range: -45°C ~ 85°C (-40°C ~ 105°C Gray Code) • Contact Rating (*Non-switching*): 50VDC @100mA • Contact Rating (*Switching*): 5VDC @100mA • Maximum Contact Resistance: 100mΩ

Dim. in mm

Fig. 1

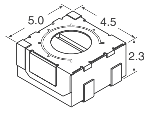

(J-Lead version shown)

Fig. 2

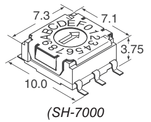

(SH-7000 16-position shown)

Fig. 3

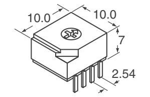

Fig. 4

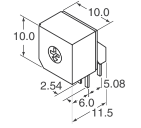

Fig. 5

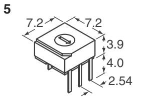

Fig. 6

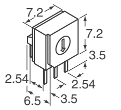

Fig. 7

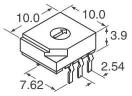

Fig. 8

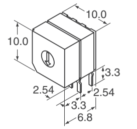

Fig. 9

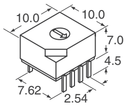

Fig. 10

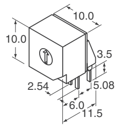

Fig. 11

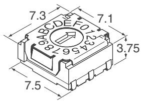

(16-position shown)

Fig. 12

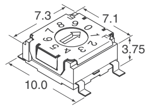

(10-position shown)

Fig. 13

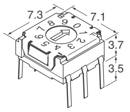

(10-position shown)

Fig.	No. of Positions	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 500	Copal Electronics Part No.
		CS-4 Series, J-Lead Type						
1	2	SPDT, Non-shorting	563-1031-1-ND	1.98	1.83	1.68	546.93	CS-4-12XTA
	3	SP3T, Non-shorting	563-1035-1-ND	2.38	2.20	2.02	658.17	CS-4-13NTA
	4	SP4T, Non-shorting	563-1037-1-ND	2.85	2.63	2.41	787.95	CS-4-14NTA
	2	DPDT, Non-shorting with Detent	563-1039-1-ND	3.35	3.09	2.84	927.00	CS-4-22YTA
		CS-4 Series, Gull Wing Type						
1	3	SP3T, Non-shorting	563-1036-1-ND	2.38	2.20	2.02	658.17	CS-4-13NTB
	4	SP4T, Non-shorting	563-1038-1-ND	2.85	2.63	2.41	787.95	CS-4-14NTB
	2	DPDT, Non-shorting with Detent	563-1040-1-ND	3.35	3.09	2.84	927.00	CS-4-22YTB
		CS-7 Series						
2	4	SP4T, Gull Wing	563-1217-1-ND	2.58	2.38	2.19	713.79	CS-7-14TB

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
		S-1000A/2000A Series					
3	16	Real Hexadecimal	563-1043-ND	2.72	2.36	2.04	S-1010A
	16	Hexadecimal Complementary	563-1045-ND	2.72	2.36	2.04	S-1030A
	16	Real Hexadecimal	563-1047-ND‡	3.40	2.95	2.55	S-1110A
	10	Real BCD	563-1048-ND	2.72	2.36	2.04	S-2010A
4	16	Real Hexadecimal	563-1044-ND	2.78	2.41	2.09	S-1011A
	16	Hexadecimal Complementary	563-1046-ND	2.78	2.41	2.09	S-1031A
	10	Real BCD	563-1049-ND	2.78	2.41	2.09	S-2011A
	10	BCD Complementary	563-1051-ND	2.78	2.41	2.09	S-2031A
		S-8000 Series					
5	8	Real BCO	563-1053-ND	3.68	3.19	2.76	S-8010
	8	BCO Complementary	563-1055-ND	3.68	3.19	2.76	S-8030
6	8	Real BCO	563-1054-ND	3.68	3.19	2.76	S-8011
	8	BCO Complementary	563-1056-ND	3.68	3.19	2.76	S-8031
	8	BCO Complementary	563-1060-ND‡	3.80	3.30	2.86	S-8131
		SD-1000/2000 Series					
7	16	Real Hexadecimal	563-1061-ND	2.72	2.36	2.04	SD-1010
	16	Hexadecimal Complementary	563-1063-ND	2.72	2.36	2.04	SD-1030
	16	Real Hexadecimal	563-1065-ND‡	3.18	2.76	2.39	SD-1110
	10	Real BCD	563-1069-ND	2.72	2.36	2.04	SD-2010
8	16	Real Hexadecimal	563-1062-ND	3.03	2.63	2.28	SD-1011
	16	Real Hexadecimal	563-1066-ND‡	3.34	2.90	2.51	SD-1111
	10	Real BCD	563-1070-ND	3.03	2.63	2.28	SD-2011
		SS-10 Series					
9	5	SP5T, Shorting	563-1077-ND	3.28	2.84	2.46	SS-10-15SPE
	5	SP5T, Shorting	563-1078-ND‡	3.99	3.46	2.99	SS-10-15SP-LE
	6	SP6T, Non-shorting	563-1079-ND	3.28	2.84	2.46	SS-10-16NPE
	6	SP6T, Non-shorting	563-1080-ND‡	3.99	3.46	2.99	SS-10-16NP-LE
	3	DP3T, Non-shorting	563-1083-ND	4.20	3.65	3.16	SS-10-23NPE
	3	DP3T, Non-shorting	563-1084-ND‡	4.76	4.13	3.57	SS-10-23NP-LE
		S-2050 Series					
9	4	SP4T	563-1085-ND	4.51	3.91	3.39	S-2050
	4	SP4T	563-1087-ND‡	5.07	4.40	3.81	S-2150
10	4	SP4T	563-1086-ND	4.51	3.91	3.39	S-2051
	4	SP4T	563-1088-ND‡	5.07	4.40	3.81	S-2151
Knob for S-1000A, S-2000A and SS-10 Series			563-1089-ND	1.08	.94	.82	K1
		SH-7000 Series					
2	10	Real BCD	563-1209-1-ND†	2.58	2.38	2.19	SH-7010TB
	10	Real BCD	563-1209-2-NDΔ	713.79/500			SH-7010TB
	10	BCD Complementary	563-1210-1-ND†	2.58	2.38	2.19	SH-7030TB
	10	BCD Complementary	563-1210-2-NDΔ	713.79/500			SH-7030TB
	16	Real Hexadecimal	563-1215-1-ND†	2.58	2.38	2.19	SH-7050TB
	16	Real Hexadecimal	563-1215-2-NDΔ	713.79/500			SH-7050TB
	16	Complementary Hexadecimal	563-1216-1-ND†	2.58	2.38	2.19	SH-7070TB
	16	Complementary Hexadecimal	563-1216-2-NDΔ	713.79/500			SH-7070TB
11	10	Real BCD	563-1207-1-ND†	2.58	2.38	2.19	SH-7010TA
	10	Real BCD	563-1207-2-NDΔ	713.79/500			SH-7010TA
	10	BCD Complementary	563-1208-1-ND†	2.58	2.38	2.19	SH-7030TA
	10	BCD Complementary	563-1208-2-NDΔ	713.79/500			SH-7030TA
	16	Real Hexadecimal	563-1213-1-ND†	2.58	2.38	2.19	SH-7050TA
	16	Real Hexadecimal	563-1213-2-NDΔ	713.79/500			SH-7050TA
	16	Complementary Hexadecimal	563-1214-1-ND†	2.58	2.38	2.19	SH-7070TA
	16	Complementary Hexadecimal	563-1214-2-NDΔ	713.79/500			SH-7070TA
12	10	Gray BCD	563-1211-1-ND†	2.85	2.63	2.41	SH-7040TB
	10	Gray BCD	563-1211-2-NDΔ	787.95/500			SH-7040TB
	16	Gray Hexadecimal	563-1212-1-ND†	2.85	2.63	2.41	SH-7080TB
	16	Gray Hexadecimal	563-1212-2-NDΔ	787.95/500			SH-7080TB
13	10	Real BCD	563-1218-5-ND§	2.63	2.28	1.97	SH-7010MC
	10	BCD Complementary	563-1219-5-ND§	2.63	2.28	1.97	SH-7030MC
	16	Real Hexadecimal	563-1220-5-ND§	2.63	2.28	1.97	SH-7050MC
	16	Complementary Hexadecimal	563-1221-5-ND§	2.63	2.28	1.97	SH-7070MC

‡ Has knob with extended shaft. † Cut Tape Δ Tape and Reel § Tube

Miniature Pushbutton Switches

APE Series Features: High Reliability - twin contact clip mechanism is used in the contact to ensure reliability • Washable Structure • Quality Touch - Independent standard construction provides a light operating touch • UL approved (File No. E43275 FUJISOKU) **Specifications:** • Operating Temperature Range: -20˚C ~ 85˚C • Maximum Current Rating: 50mA @48VAC/DC • Initial Contact Resistance: 50mΩ Maximum **FP Series Features:** • Ultra compact • Immersion cleaning is possible after soldering • Independent detent mechanism provides light feel operability • Long term stability is assured by the clip contact • Gold plated contacts **Specifications:** • Operating Temperature Range: -40˚C ~ 85˚C • Maximum Current Rating: 0.4VA (28VDC Maximum) • Initial Contact Resistance: 100mΩ Maximum

Dim. in mm

Fig. 1

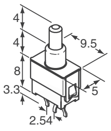

Fig. 2

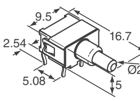

Fig. 3

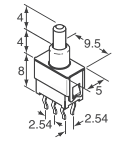

Fig. 4

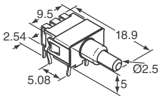

Fig. 5

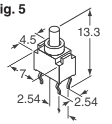

Fig. 6

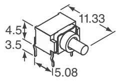

Fig. 7

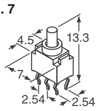

Fig. 8

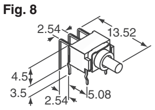

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
	APE Series					
1	SPDT ON-ON (MOM)	563-1182-ND	3.81	3.31	2.86	APE1F-2M-10-Z
2	SPDT ON-ON (MOM)	563-1183-ND	3.95	3.42	2.96	APE1F-5M-10-Z
3	DPDT ON-ON (MOM)	563-1184-ND	6.52	5.65	4.89	APE2F-2M-10-Z
4	DPDT ON-ON (MOM)	563-1185-ND	6.70	5.81	5.03	APE2F-5M-10-Z
—	White Cap for APE Series	563-1186-ND	.28	.25	.22	140000481402
	Black Cap for APE Series	563-1187-ND	.28	.25	.22	140000481403
	Red Cap for APE Series	563-1188-ND	.28	.25	.22	140000481404
	Yellow Cap for APE Series	563-1189-ND	.28	.25	.22	140000481405
	Blue Cap for APE Series	563-1190-ND	.28	.25	.22	140000481407
	Gray Cap for APE Series	563-1191-ND	.28	.25	.22	140000481408
	FP Series					
5	SPDT ON-ON (MOM)	563-1174-ND	4.18	3.63	3.14	FP1F-2M-Z
6	SPDT ON-ON (MOM)	563-1175-ND	4.27	3.70	3.21	FP1F-5M-Z
7	DPDT ON-ON (MOM)	563-1176-ND	4.96	4.30	3.72	FP2F-2M-Z
8	DPDT ON-ON (MOM)	563-1177-ND	5.05	4.38	3.79	FP2F-5M-Z
—	Gray Cap for FP Series	563-1178-ND	.35	.30	.26	140000481450
	Black Cap for FP Series	563-1179-ND	.35	.30	.26	140000481451
	Red Cap for FP Series	563-1180-ND	.35	.30	.26	140000481452
	White Cap for FP Series	563-1181-ND	.35	.30	.26	140000481453

Grayhill DIP Switches

Grayhill's unique spring and ball contact design offers unparalleled reliability compared to conventional wiping contact designs. When actuated the ball rests between two contacts allowing multiple points of contact while the spring compression is at maximum pressure. Temperature, humidity and vibration have minimal affect on this design.

Specifications: • Mechanical Life per switch position: 76/78 – 20,000; 90B – 5,000 **• Contact Resistance:** Initially ≤ 30mΩ **• Insulation Resistance:** 5,000MΩ **• Dielectric Strength:** 750V **• Current Carry:** 3A **• Switch Capacitance:** 2pF **• Operating Temperature:** -40°C ~ 85°C **• SMT Processing Temperature (90HBW, 90HBJ):** 260°C Maximum

Fig. 1 – Series 76 Rocker and Recessed Rocker

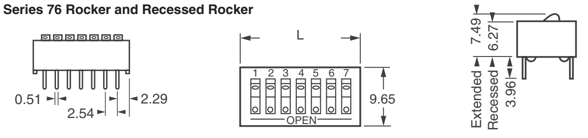

Fig. 2 – Series 76 Piano DIP

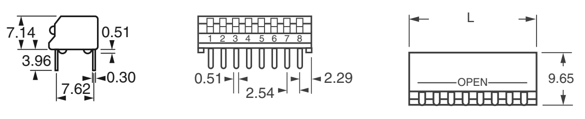

Fig. 3 – Series 78

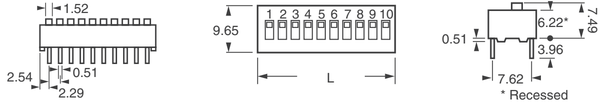

Fig. 4 – Series 90

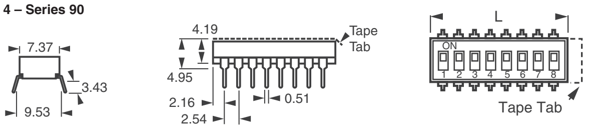

Fig. 5 – Series 90HBW, 90HBJ

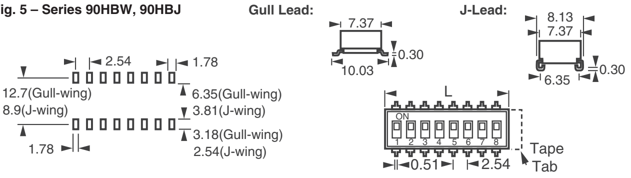

Fig. 6 – Series 76HP SMT Piano DIP

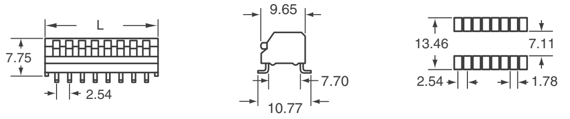

Fig. 7 – Series 97C Half Pitch

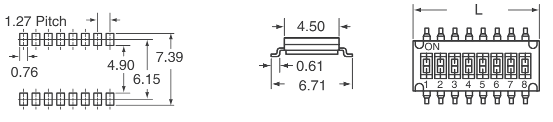

Fig. 8 – Series 97R Half Pitch

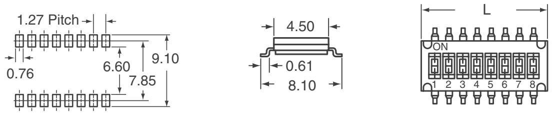

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
			Raised Rocker, Unsealed				
1	2	7.11	GH7115-ND	.95	.88	.80	76SB02T
	3	9.65	GH7168-ND	.96	.89	.81	76SB03T
	4	12.19	GH7170-ND	.95	.88	.80	76SB04T
	5	14.7	GH7172-ND	1.39	1.28	1.16	76SB05T
	6	17.27	GH7174-ND	1.40	1.29	1.17	76SB06T
	7	19.81	GH7175-ND	1.44	1.33	1.21	76SB07T
	8	22.35	GH7177-ND	1.46	1.34	1.22	76SB08T
	9	24.9	GH7179-ND	1.50	1.38	1.25	76SB09T
	10	27.43	GH7118-ND	1.54	1.42	1.29	76SB10T
	12	32.51	GH7120-ND	1.69	1.55	1.41	76SB12T
			Raised Rocker, Sealed				
1	2	7.11	GH7114-ND	1.10	1.01	.92	76SB02ST
	3	9.65	GH7167-ND	1.10	1.01	.92	76SB03ST
	4	12.2	GH7169-ND	1.10	1.01	.92	76SB04ST
	5	14.73	GH7171-ND	1.53	1.41	1.28	76SB05ST
	6	17.27	GH7173-ND	1.50	1.38	1.25	76SB06ST
	7	19.81	GH7116-ND	1.51	1.39	1.26	76SB07ST
	8	22.35	GH7176-ND	1.51	1.39	1.26	76SB08ST
	9	24.89	GH7178-ND	1.59	1.46	1.33	76SB09ST
	10	27.43	GH7117-ND	1.63	1.50	1.37	76SB10ST
	12	32.51	GH7119-ND	1.76	1.61	1.47	76SB12ST
			Recessed Rocker, Unsealed				
1	2	7.11	GH7150-ND	2.76	1.94	1.27	76RSB02T
	3	9.65	GH7152-ND	2.83	1.99	1.31	76RSB03T
	4	12.19	GH7154-ND	2.94	2.06	1.36	76RSB04T
	5	14.73	GH7156-ND	3.06	2.15	1.41	76RSB05T
	6	17.27	GH7158-ND	3.12	2.19	1.44	76RSB06T
	8	22.35	GH7162-ND	3.30	2.31	1.52	76RSB08T
	9	24.89	GH7164-ND	3.36	2.35	1.55	76RSB09T
	10	27.43	GH7165-ND	3.38	2.37	1.56	76RSB10T
	12	32.51	GH7166-ND	3.60	2.52	1.66	76RSB12T
			Recessed Rocker, Sealed				
1	2	7.11	GH7149-ND	2.94	2.06	1.36	76RSB02ST
	3	9.65	GH7151-ND	3.06	2.15	1.41	76RSB03ST
	4	12.19	GH7153-ND	3.12	2.19	1.44	76RSB04ST
	5	14.73	GH7155-ND	3.24	2.27	1.50	76RSB05ST
	6	17.27	GH7157-ND	3.30	2.31	1.52	76RSB06ST
	7	19.81	GH7159-ND	3.36	2.35	1.55	76RSB07ST
	8	22.35	GH7161-ND	3.44	2.41	1.59	76RSB08ST
	9	24.89	GH7163-ND	3.53	2.48	1.63	76RSB09ST
	10	27.43	GH7112-ND	3.60	2.52	1.66	76RSB10ST
	12	32.51	GH7113-ND	3.77	2.64	1.74	76RSB12ST
			PIANO DIP® Unsealed				
2	2	7.11	GH7132-ND	1.35	1.24	1.13	76PSB02T
	3	9.7	GH7134-ND	1.39	1.28	1.16	76PSB03T
	4	12.19	GH7136-ND	1.12	1.03	.94	76PSB04T
	5	14.73	GH7138-ND	1.44	1.33	1.21	76PSB05T
	6	17.27	GH7140-ND	1.27	1.17	1.06	76PSB06T
	7	19.81	GH7142-ND	1.44	1.33	1.21	76PSB07T
	8	22.4	GH7144-ND	1.32	1.22	1.11	76PSB08T
	9	24.89	GH7146-ND	1.62	1.49	1.35	76PSB09T
	10	27.43	GH7148-ND	1.35	1.24	1.13	76PSB10T
	12	32.51	GH7111-ND	1.92	1.76	1.60	76PSB12T

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
			PIANO DIP® Sealed				
2	2	7.11	GH7131-ND	1.46	1.34	1.22	76PSB02ST
	3	9.65	GH7133-ND	1.50	1.38	1.26	76PSB03ST
	4	12.19	GH7135-ND	1.22	1.12	1.02	76PSB04ST
	5	14.7	GH7137-ND	1.53	1.41	1.28	76PSB05ST
	6	17.27	GH7139-ND	1.38	1.27	1.15	76PBS06ST
	7	19.8	GH7141-ND	1.68	1.54	1.40	76PSB07ST
	8	22.35	GH7143-ND	1.46	1.34	1.22	76PSB08ST
	9	24.89	GH7145-ND	1.79	1.65	1.50	76PSB09ST
	10	27.43	GH7147-ND	1.54	1.42	1.29	76PSB10ST
	12	32.51	GH7110-ND	2.01	1.85	1.68	76PSB12ST
			Raised Slide Switch, Unsealed				
3	2	7.11	GH7181-ND	1.11	1.02	.93	78B02T
	3	9.7	GH7183-ND	1.11	1.02	.93	78B03T
	4	12.19	GH7185-ND	.93	.85	.78	78B04T
	5	14.73	GH7187-ND	1.13	1.04	.95	78B05T
	6	17.27	GH7189-ND	1.13	1.04	.95	78B06T
	7	19.81	GH7191-ND	1.13	1.04	.95	78B07T
	8	22.4	GH7193-ND	1.04	.96	.87	78B08T
	9	24.89	GH7122-ND	1.11	1.02	.93	78B09T
	10	27.4	GH7195-ND	1.13	1.04	.95	78B10T
	12	32.51	GH7197-ND	1.32	1.22	1.11	78B12T
			Raised Slide Switch, Sealed				
3	2	7.11	GH7180-ND	1.12	1.03	.94	78B02ST
	3	9.65	GH7182-ND	1.13	1.04	.94	78B03ST
	4	12.19	GH7184-ND	.98	.91	.82	78B04ST
	5	14.7	GH7186-ND	1.36	1.25	1.14	78B05ST
	6	17.27	GH7188-ND	1.30	1.19	1.08	78B06ST
	7	19.81	GH7190-ND	1.33	1.22	1.11	78B07ST
	8	22.4	GH7192-ND	1.11	1.02	.93	78B08ST
	9	24.89	GH7121-ND	1.22	1.12	1.02	78B09ST
	10	27.43	GH7194-ND	1.32	1.22	1.11	78B10ST
	12	32.51	GH7196-ND	1.54	1.42	1.29	78B12ST
			Recessed Slide Switch, Unsealed				
3	2	7.11	GH7201-ND	1.11	1.02	.93	78RB02T
	3	9.7	GH7203-ND	1.11	1.02	.93	78RB03T
	4	12.2	GH7205-ND	.93	.85	.78	78RB04T
	5	14.73	GH7207-ND	1.13	1.04	.95	78RB05T
	6	17.3	GH7209-ND	1.12	1.03	.94	78RB06T
	7	19.81	GH7211-ND	1.13	1.04	.95	78RB07T
	8	22.35	GH7213-ND	1.04	.96	.87	78RB08T
	9	24.89	GH7124-ND	1.11	1.02	.93	78RB09T
	10	27.43	GH7215-ND	1.13	1.04	.95	78RB10T
	12	32.51	GH7216-ND	1.32	1.22	1.11	78RB12T
			Recessed Slide Switch, Sealed				
3	2	7.11	GH7200-ND	1.11	1.02	.93	78RB02ST
	3	9.65	GH7202-ND	1.11	1.02	.93	78RB03ST
	4	12.19	GH7204-ND	.98	.91	.82	78RB04ST
	5	14.73	GH7206-ND	1.36	1.25	1.14	78RB05ST
	6	17.3	GH7208-ND	1.30	1.19	1.08	78RB06ST
	7	19.81	GH7210-ND	1.33	1.22	1.11	78RB07ST
	8	22.35	GH7212-ND	1.11	1.02	.93	78RB08ST
	9	24.89	GH7123-ND	1.22	1.12	1.02	78RB09ST
	10	27.43	GH7214-ND	1.32	1.22	1.11	78RB10ST

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
			Auto-Insertable Auto DIP, Sealed				
4	2	6.86	GH7218-ND	.79	.72	.66	90B02ST
	3	9.40	GH7219-ND	.88	.81	.74	90B03ST
	4	11.9	GH7220-ND	.96	.89	.81	90B04ST
	5	14.5	GH7221-ND	1.03	.95	.86	90B05ST
	6	17.02	GH7222-ND	1.22	1.12	1.02	90B06ST
	7	19.6	GH7223-ND	1.28	1.18	1.07	90B07ST
	8	22.10	GH7224-ND	1.19	1.09	.99	90B08ST
	9	24.64	GH7225-ND	1.50	1.38	1.26	90B09ST
	10	27.18	GH7226-ND	1.60	1.47	1.34	90B10ST
			SMT Gull Lead, Sealed				
5	2	6.9	GH7236-ND	.88	.81	.74	90HBW02PT
	3	9.4	GH7237-ND	.92	.85	.77	90HBW03PT
	4	11.9	GH7238-ND	1.02	.94	.85	90HBW04PT
	5	14.5	GH7239-ND	1.14	1.05	.96	90HBW05PT
	6	17.0	GH7240-ND	1.19	1.09	.99	90HBW06PT
	7	19.6	GH7241-ND	1.31	1.20	1.09	90HBW07PT
	8	22.1	GH7242-ND	1.22	1.12	1.02	90HBW08PT
	9	24.6	GH7243-ND	1.53	1.41	1.28	90HBW09PT
	10	27.2	GH7244-ND	1.54	1.42	1.29	90HBW10PT
			SMT J-Lead, Sealed				
5	2	6.86	GH7227-ND	1.73	1.59	1.44	90HBJ02PT
	3	9.40	GH7228-ND	1.78	1.64	1.49	90HBJ03PT
	4	11.94	GH7229-ND	1.51	1.39	1.26	90HBJ04PT
	5	14.48	GH7230-ND	1.73	1.59	1.44	90HBJ05PT
	6	17.02	GH7231-ND	1.76	1.61	1.47	90HBJ06PT
	7	19.56	GH7232-ND	1.81	1.66	1.51	90HBJ07PT
	8	22.10	GH7233-ND	1.51	1.39	1.26	90HBJ08PT
	10	27.20	GH7235-ND	1.70	1.56	1.42	90HBJ10PT
			Series 76HP PIANO DIP®				
6	2	7.1	GH7125CT-ND	4.02	2.82	1.85	76HPSB02GWRT
	2	7.1	GH7125TR-ND	808.50/500			76HPSB02GWRT
	4	12.2	GH7126CT-ND	4.14	2.90	1.91	76HPSB04GWRT
	4	12.2	GH7126TR-ND	833.00/500			76HPSB04GWRT
	6	17.3	GH7127CT-ND	4.37	3.07	2.02	76HPSB06GWRT
	6	17.3	GH7127TR-ND	880.25/500			76HPSB06GWRT
	8	22.4	GH7128CT-ND	4.68	3.28	2.16	76HPSB08GWRT
	8	22.4	GH7128TR-ND	942.38/500			76HPSB08GWRT
	10	27.4	GH7109TR-ND	1026.38/500			76HPSB10GWRT
			Series 97 Half Pitch				
7	2	3.76	GH1370-ND	4.38	3.07	2.02	97C02ST
	4	6.30	GH1371-ND	4.50	3.15	2.07	97C04ST
	8	11.38	GH1372-ND	4.73	3.32	2.18	97C08ST
	10	13.92	GH1373-ND	5.10	3.57	2.35	97C10ST
8	2	3.76	GH1374-ND	4.38	3.07	2.02	97R02ST
	4	6.30	GH1375-ND	4.50	3.15	2.07	97R04ST
	8	11.38	GH1376-ND	4.73	3.32	2.18	97R08ST
			Hand Tool for Dip Switch				
—	Tool	—	GH1343-ND	1.61	—	.74	90-DIPSTICK

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rotary DIP Switches

Specifications: • Mechanical Life: 10,000 cycles • Make and Break Current Rating: 30mA at 30VDC for 10,000 cycles of operation • Carrying Current Rating: 100mA at 500VDC • Contact Resistance: 50mΩ maximum • Operating Temperature Range: -25°C ~ 85°C

Materials and Finishes: • Rotor and Switch Body: Plastic, rated at UL 94V-0 • Contact Material: Copper alloy gold over 30 microinches nickel • Terminals: Copper alloy plated 150 microinches tin lead solder over nickel • Internal O-ring: Silicon rubber

Flux Cleaning: • Acceptable cleaning solutions include 1-1-1 Trichlorethane, Freon (TF, TE, or TMS), Isopropyl Alcohol, and detergent (140°F (60°C) maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.

Note: All Grayhill Dip Switches are shipped in tubes.

Code	Type of Mounting	Type of Actuator	Digi-Key Part No.	Price Each			Grayhill Part No.
				1	50	100	
			Rotary Switches				
Octal	Thru-Hole	Extended (.270 in.)	GH7258-ND	3.45	2.73	2.42	94HBB08T
	Thru-Hole	Extended (.170 in.)	GH7264-ND	3.45	2.73	2.42	94HCB08T
	Thru-Hole	Flush	GH7249-ND	3.45	2.73	2.42	94HAB08T
	SMT	Extended (.270 in.)	GH7259-ND	3.45	2.73	2.42	94HBB08WT
	SMT	Extended (.170 in.)	GH7366-ND	3.45	2.73	2.42	94HCB08WT
	SMT	Flush	GH7250-ND	3.45	2.73	2.42	94HAB08WT
	Right Angle	Extended (.270 in.)	GH7257-ND	3.86	3.05	2.70	94HBB08RAT
	Right Angle	Extended (.170 in.)	GH7367-ND	3.86	3.05	2.70	94HCB08RAT
	Right Angle	Flush	GH7248-ND	3.86	3.05	2.70	94HAB08RAT
BCD	Thru-Hole	Extended (.270 in.)	GH7261-ND	3.45	2.73	2.42	94HBB10T
	Thru-Hole	Extended (.170 in.)	GH7369-ND	3.45	2.73	2.42	94HCB10T
	Thru-Hole	Flush	GH7252-ND	3.45	2.73	2.42	94HAB10T
	SMT	Extended (.270 in.)	GH7364-ND	3.45	2.73	2.42	94HBB10WT
	SMT	Extended (.170 in.)	GH7368-ND	3.45	2.73	2.42	94HCB10WT
	SMT	Flush	GH7253-ND	3.45	2.73	2.42	94HAB10WT
	Right Angle	Extended (.270 in.)	GH7260-ND	3.86	3.05	2.70	94HBB10RAT
	Right Angle	Extended (.170 in.)	GH7370-ND	3.86	3.05	2.70	94HCB10RAT
	Right Angle	Flush	GH7251-ND	3.86	3.05	2.70	94HAB10RAT
Hex	Thru-Hole	Extended (.270 in.)	GH7263-ND	3.45	2.73	2.42	94HBB16T
	Thru-Hole	Extended (.170 in.)	GH7372-ND	3.45	2.73	2.42	94HCB16T
	Thru-Hole	Flush	GH7255-ND	3.45	2.73	2.42	94HAB16T
	SMT	Extended (.270 in.)	GH7365-ND	3.45	2.73	2.42	94HBB16WT
	SMT	Extended (.170 in.)	GH7371-ND	3.45	2.73	2.42	94HCB16WT
	SMT	Flush	GH7256-ND	3.45	2.73	2.42	94HAB16WT
	Right Angle	Extended (.270 in.)	GH7262-ND	3.86	3.05	2.70	94HBB16RAT
	Right Angle	Extended (.170 in.)	GH7373-ND	3.86	3.05	2.70	94HCB16RAT
	Right Angle	Flush	GH7254-ND	3.86	3.05	2.70	94HAB16RAT
			Knobs for Extended Actuators Only				
Black Knob, Open Window Type, .210”			GH5005-ND	.78	.62	.55	947705-001
Gray Knob, Open Window Type, .210”			GH5006-ND	.78	.62	.55	947705-012
Gray Knob, Black Arrowhead, .210”			GH5007-ND	.78	.62	.55	947705-017
Gray Knob, Open Window Type, .370”			GH7374-ND	1.23	.98	.87	947706-001

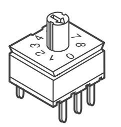

Extended

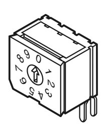

Right Angle/Flush

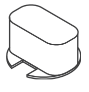

Knob for Extended Actuators

Switch Markings

Octal

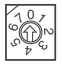

BCD

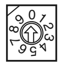

Hex

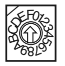

DIP Switches

A6D and A6DR Series **Features:** • Completely sealed units allow immersion-cleaning without taping • Bifurcated movable contacts • Smooth, sure switching action **Specifications:** • Switching capacity: 100mA at 5VDC, 30mA at 30VDC • Contact resistance: 100mΩ max. • Operating temperature: -20°C ~ 70°C • Mechanical life: 5,000 operations min. • Electrical life: 2,000 operations min.

A6E Series **Features:** Sealed bottom prevents flux penetration ***NOTE: Switches cannot be water washed.*** **Specifications:** • Switching capacity: 25mA at 24VDC • Mechanical life: 1,000 operations min. • Electrical life: 1,000 operations min. • Operating Temperature: -20°C ~ 70°C

A6S and A6T Series **Features:** • Allows automatic mounting with DIP IC insertion machines • Washable models with seal tape are available **Specifications:** • Switching capacity: 25mA at 24VDC • Mechanical life: 1,000 operations min. • Electrical Life: 1,000 operations min. • Operating Temperature: -20°C ~ 70°C

A6H Series: **Features:** • Very low profile of 1.55mm • Mounting space reduced by 63% (compared with conventional models) **Specifications:** • Switching Capacity: 25mA at 24VDC • Contact Resistance: 200mΩ max. • Mechanical life: 1,000 operations min. • Electrical life: 1,000 operations min. • Operating Temperature: -20°C ~ 70°C

Dimensions. in mm

Fig. 1

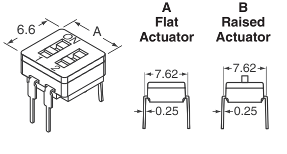

Fig. 2 — Side Actuator

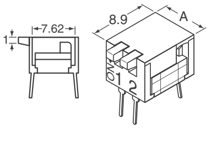

Fig. 3

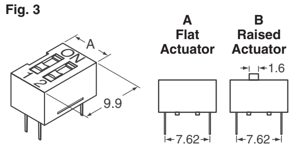

Fig. 4 — Side Actuator (Short Lever)

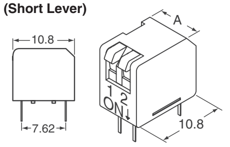

Fig. 5 — Side Actuator (Long Lever)

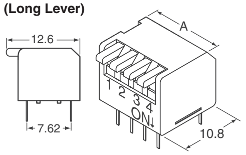

Fig. 6

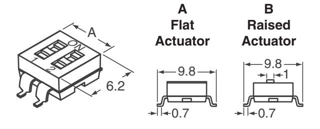

Fig. 7

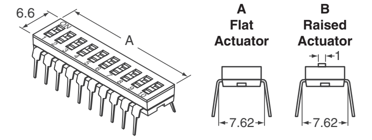

Fig. 8 — Half Pitch

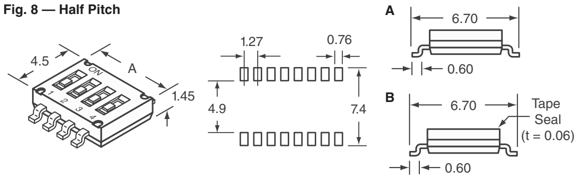

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each			Omron Part No.
				1	25	50	
1A	2	7.1	SW896-ND	2.55	2.30	2.05	A6D-2100
	4	12.2	SW898-ND	2.71	2.45	2.18	A6D-4100
	6	17.3	SW940-ND	3.03	2.73	2.43	A6D-6100
	8	22.4	SW942-ND	3.19	2.88	2.56	A6D-8100
1B	2	7.1	SW897-ND	2.87	2.58	2.30	A6D-2103
	4	12.2	SW899-ND	2.87	2.58	2.30	A6D-4103
	8	22.4	SW943-ND	3.54	3.19	2.83	A6D-8103
2	2	7.1	SW944-ND	3.74	3.37	2.99	A6DR-2100
	4	12.2	SW945-ND	3.84	3.46	3.07	A6DR-4100
	6	17.3	SW946-ND	4.39	3.96	3.52	A6DR-6100
	8	22.4	SW947-ND	4.98	4.48	3.99	A6DR-8100
3A	2	6.64	SW949-ND	1.68	1.52	1.35	A6E-2101
	3	9.18	SW900-ND	1.91	1.72	1.53	A6E-3101
	4	11.72	SW902-ND	1.93	1.74	1.55	A6E-4101
	5	14.26	SW904-ND	2.28	2.06	1.83	A6E-5101
3A	6	16.8	SW906-ND	2.48	2.24	1.99	A6E-6101
	7	19.34	SW908-ND	2.67	2.41	2.14	A6E-7101
	8	21.88	SW910-ND	2.89	2.61	2.32	A6E-8101
3B	2	6.64	SW948-ND	1.81	1.63	1.45	A6E-2104
	3	9.18	SW901-ND	1.90	1.72	1.53	A6E-3104
	4	11.72	SW903-ND	1.98	1.79	1.59	A6E-4104
	5	14.26	SW905-ND	2.28	2.06	1.83	A6E-5104
	6	16.8	SW907-ND	2.48	2.24	1.99	A6E-6104
	8	21.88	SW911-ND	2.89	2.61	2.32	A6E-8104
4	2	6.64	SW912-ND	3.14	2.83	2.52	A6ER-2101
	4	11.72	SW913-ND	2.77	2.50	2.22	A6ER-4101
	8	21.88	SW915-ND	3.75	3.38	3.01	A6ER-8101
5	4	11.72	SW914-ND	2.61	2.35	2.09	A6ER-4104
	8	21.88	SW916-ND	3.75	3.38	3.01	A6ER-8104
6A	2	6.02	SW1008-ND	1.38	1.25	1.11	A6S-2102-H
	4	11.1	SW1010-ND	1.45	1.31	1.16	A6S-4102-H
6A	5	13.64	SW1012-ND	1.58	1.42	1.27	A6S-5102-H
	6	16.18	SW1014-ND	1.69	1.53	1.36	A6S-6102-H
	8	21.26	SW1016-ND	2.11	1.90	1.69	A6S-8102-H
6B	2	6.02	SW1009-ND	1.30	1.18	1.05	A6S-2104-H
	4	11.1	SW1011-ND	1.38	1.25	1.11	A6S-4104-H
	5	13.64	SW1013-ND	1.49	1.35	1.20	A6S-5104-H
	6	16.18	SW1015-ND	1.62	1.46	1.30	A6S-6104-H
	8	21.26	SW1017-ND	2.02	1.83	1.62	A6S-8104-H
7A	10	26.34	SW938-ND†	2.19	1.98	1.76	A6T-0102
7B	10	26.34	SW939-ND	2.17	1.95	1.74	A6T-0104
8A	4	6.31	SW1080-ND	2.37	2.14	1.90	A6H-4101
	8	11.39	SW1102CT-ND◊ ***NEW!***	2.87	2.59	2.30	A6H-8101-P
	8	11.39	SW1102TR-ND‡ ***NEW!***	5738.00/4,000			A6H-8101-P
8B	4	6.31	SW1081-ND	2.45	2.21	1.97	A6H-4102
	4	6.31	SW1081CT-ND◊ ***NEW!***	2.30	2.07	1.84	A6H-4102-P
	4	6.31	SW1081TR-ND‡ ***NEW!***	4598.50/4,000			A6H-4102-P

† With Tape Seal ◊ Cut Tape ‡ Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CTS DIP Switches

Electrical Specifications: **Initial Contact Resistance:** 25mΩ (209, 219 Series); 50mΩ (193, 194, 204, and 206 Series); 100mΩ (195, 208, and 218 Series). **Maximum Contact Resistance:** 100mΩ after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100mΩ after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500mΩ after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500mΩ after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50mΩ maximum at end of life (209 and 219 Series). ***Electrostatic discharge protection: rated to 22KV (206, 208 Series)*** **Maximum Non-Switching Rating:** 100mA or 50VDC. **Insulation Resistance:** Across open switch and between adjacent closed switches - $1 \times 10^9\Omega$ (218 Series: 100mΩ minimum). **Dielectric Breakdown:** 500VDC maximum for 1 minute (218 Series – 300VDC maximum). **Switch Capacitance:** Between adjacent switches maximum - 5.0pF (218 Series: 10pF).

CTS PART NUMBER LEGEND
M = medium actuator height (extends above unit)
LP = low profile actuator height (flush with top of unit)
S = bottom seal
T = top tape seal

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			CTS Part No.
				1	10	100	
206 Series — SPST, Thru Hole, Top Actuated, Gold contacts, Tin terminals							
1	2	7.26	CT2062-ND	.73	6.68	60.75	206-2
	3	9.80	CT2063-ND	.76	6.93	63.00	206-3
	4	12.34	CT2064-ND	.76	6.98	63.45	206-4
	5	14.88	CT2065-ND	.85	7.80	70.88	206-5
	6	17.42	CT2066-ND	.87	7.97	72.45	206-6
	7	19.96	CT2067-ND	.92	8.42	76.50	206-7
	8	22.50	CT2068-ND	.88	8.04	73.13	206-8
	9	25.04	CT2069-ND	1.02	9.36	85.05	206-9
	10	27.58	CT20610-ND	1.04	9.55	86.85	206-10
	12	32.66	CT20612-ND	1.23	11.31	102.83	206-12
206 Series — SPST, Thru Hole, Top Actuated, Gold Contacts, Tin terminals, Bottom and Top seal							
1	2	7.26	CT2062ST-ND	.88	8.04	73.13	206-2ST
	3	9.80	CT2063ST-ND	.90	8.29	75.38	206-3ST
	4	12.34	CT2064ST-ND	.91	8.34	75.83	206-4ST
	5	14.88	CT2065ST-ND	1.00	9.16	83.25	206-5ST
	6	17.42	CT2066ST-ND	1.02	9.33	84.83	206-6ST
	7	19.96	CT2067ST-ND	1.07	9.78	88.88	206-7ST
	8	22.50	CT2068ST-ND	1.03	9.41	85.50	206-8ST
	9	25.04	CT2069ST-ND	1.17	10.72	97.43	206-9ST
	10	27.58	CT20610ST-ND	1.19	10.91	99.23	206-10ST
	12	32.66	CT20612ST-ND	1.38	12.67	115.20	206-12ST
206 Series — SPDT, Thru Hole, Top Actuated, Gold Contacts, Tin Terminals							
1	4	22.50	CT206124-ND	1.37	12.60	114.53	206-124
206 Series — DPST, Thru Hole, Top Actuated, Gold Contacts, Tin terminals							
1	4	22.50	CT206214-ND	1.27	11.63	105.75	206-214
208 Series — SPST, Thru Hole, Top Actuated, Tin contacts, Tin terminals							
1	2	7.26	CT2082-ND	.58	5.30	48.15	208-2
	3	9.80	CT2083-ND	.62	5.67	51.53	208-3
	4	12.34	CT2084-ND	.66	6.09	55.35	208-4
	5	14.88	CT2085-ND	.71	6.51	59.18	208-5
	6	17.42	CT2086-ND	.74	6.81	61.88	208-6
	7	19.96	CT2087-ND	.79	7.25	65.93	208-7
	8	22.50	CT2088-ND	.79	7.28	66.15	208-8
	9	25.04	CT2089-ND	.85	7.82	71.10	208-9
	10	27.58	CT20810-ND	.92	8.39	76.28	208-10
	12	32.66	CT20812-ND	1.03	9.48	86.18	208-12
206RA Series — SPST, Thru Hole, Right Angle Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
2	2	7.26	CT2062RAST-ND	1.10	10.10	91.80	206-2RAST
	3	9.80	CT2063RAST-ND	1.19	10.87	98.78	206-3RAST
	4	12.34	CT2064RAST-ND	1.23	11.24	102.15	206-4RAST
	6	17.42	CT2066RAST-ND	1.32	12.13	110.25	206-6RAST
	7	19.96	CT2067RAST-ND	1.39	12.70	115.43	206-7RAST
	8	22.50	CT2068RAST-ND	1.42	13.04	118.58	206-8RAST
	9	25.04	CT2069RAST-ND	1.47	13.44	122.18	206-9RAST
	10	27.58	CT20610RAST-ND	1.58	14.50	131.85	206-10RAST
	12	32.66	CT20612RAST-ND	1.74	15.96	145.13	206-12RAST
194 Series — SPST, Thru Hole, Side Actuated, Gold Contacts, Tin terminals, Bottom and Top seal							
3	2	7.26	CT1942MST-ND	.89	8.17	74.25	194-2MST
	3	9.80	CT1943MST-ND	1.03	9.48	86.18	194-3MST
	4	12.34	CT1944MST-ND	1.07	9.78	88.88	194-4MST
	5	14.88	CT1945MST-ND	1.25	11.48	104.40	194-5MST
	6	17.42	CT1946MST-ND	1.26	11.51	104.63	194-6MST
	7	19.96	CT1947MST-ND	1.37	12.55	114.08	194-7MST
	8	22.50	CT1948MST-ND	1.36	12.42	112.95	194-8MST
	9	25.04	CT1949MST-ND	1.63	14.97	136.13	194-9MST
	10	27.58	CT19410MST-ND	1.46	13.34	121.28	194-10MST
195 Series — SPST, Thru Hole, Side Actuated, Tin Contacts, Tin terminals, Bottom and Top seal							
3	2	7.26	CT1952MST-ND	.78	7.18	65.25	195-2MST
	4	12.34	CT1954MST-ND	.86	7.85	71.33	195-4MST
	6	17.42	CT1956MST-ND	1.02	9.38	85.28	195-6MST
	8	22.50	CT1958MST-ND	1.12	10.27	93.38	195-8MST
	9	25.04	CT1959MST-ND	1.43	13.09	119.03	195-9MST
	10	27.58	CT19510MST-ND	1.25	11.46	104.18	195-10MST
	12	32.66	CT19512MST-ND	1.51	13.81	125.55	195-12MST
209 Series — SPST, Low Profile Thru Hole, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
4	2	6.55	CT2092LPST-ND	.56	5.12	46.58	209-2LPST
	3	9.09	CT2093LPST-ND	.63	5.74	52.20	209-3LPST
	4	11.63	CT2094LPST-ND	.70	6.39	58.05	209-4LPST
	5	14.17	CT2095LPST-ND	.78	7.13	64.80	209-5LPST
	6	16.71	CT2096LPST-ND	.86	7.87	71.55	209-6LPST
	7	19.25	CT2097LPST-ND	.95	8.74	79.43	209-7LPST
	8	21.79	CT2098LPST-ND	1.02	9.31	84.60	209-8LPST
4	10	26.87	CT20910LPST-ND	1.17	10.74	97.65	209-10LPST
	12	31.95	CT20912LPST-ND	1.34	12.30	111.83	209-12LPST
209 Series — SPST, Medium Thru Hole, Top Actuated, Gold contacts, Tin terminals, Bottom seal							
4	2	6.55	CT2092MS-ND	.53	4.88	44.33	209-2MS
	3	9.09	CT2093MS-ND	.60	5.49	49.95	209-3MS
	4	11.63	CT2094MS-ND	.67	6.14	55.80	209-4MS
	5	14.17	CT2095MS-ND	.75	6.88	62.55	209-5MS
	6	16.71	CT2096MS-ND	.83	7.62	69.30	209-6MS
	7	19.25	CT2097MS-ND	.93	8.49	77.18	209-7MS
	8	21.79	CT2098MS-ND	.99	9.06	82.35	209-8MS
	9	24.33	CT2099MS-ND	1.07	9.80	89.10	209-9MS
	10	26.87	CT20910MS-ND	1.14	10.49	95.40	209-10MS
	12	31.95	CT20912MS-ND	1.31	12.05	109.58	209-12MS
193 Series — SPST, Surface Mount, Side Actuated, Gold contacts, Tin terminals, Bottom seal							
5	2	7.26	CT1932MS-ND	1.29	10.33	91.33	193-2MS
	3	9.80	CT1933MS-ND	1.39	11.14	98.51	193-3MS
	4	12.34	CT1934MS-ND	1.60	12.78	117.15	193-4MS
	6	17.42	CT1936MS-ND	1.69	13.52	119.54	193-6MS
	7	19.96	CT1937MS-ND	1.87	14.95	132.17	193-7MS
	8	22.50	CT1938MS-ND	1.97	15.79	139.59	193-8MS
204 Series — SPST, Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
6	2	7.26	CT2042ST-ND	1.33	11.37	104.23	204-2ST
	3	9.80	CT2043ST-ND	1.43	11.45	101.23	204-3ST
	4	12.34	CT2044ST-ND	1.43	12.24	112.20	204-4ST
	5	14.88	CT2045ST-ND	1.48	12.66	116.05	204-5ST
	6	17.42	CT2046ST-ND	1.55	13.29	121.83	204-6ST
	7	19.96	CT2047ST-ND	1.62	13.92	127.60	204-7ST
	8	22.50	CT2048ST-ND	1.68	14.37	131.73	204-8ST
	9	25.04	CT2049ST-ND	1.80	15.45	141.63	204-9ST
	10	27.58	CT20410ST-ND	1.87	16.05	147.13	204-10ST
	12	32.66	CT20412ST-ND	2.07	17.73	162.53	204-12ST
204 Series — SPDT, Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
6	1	7.26	CT204121ST-ND	1.94	16.65	152.63	204-121ST
	1	7.26	CT204121LPST-ND	1.94	16.65	152.63	204-121LPST
204 Series — DPST, Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
6	1	7.26	CT204211ST-ND	1.42	11.34	100.24	204-211ST
	2	12.34	CT204212ST-ND	1.60	12.82	113.36	204-212ST
	3	17.42	CT204213ST-ND	1.73	14.82	135.85	204-213ST
	4	22.50	CT204214ST-ND	1.87	14.98	132.41	204-214ST
	6	32.66	CT204216ST-ND	2.33	21.61	199.50	204-216ST
204 Series — DPDT, Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
6	1	12.34	CT204221ST-ND	2.99	25.65	235.13	204-221ST
	2	22.50	CT204222ST-ND	3.64	29.12	257.40	204-222ST
	3	32.66	CT204223ST-ND	4.31	34.50	304.92	204-223ST
218 Series — SPST, Half Pitch Surface Mount, Top Actuated Gold contacts, Gold terminals, Bottom and Top seal							
7	2	3.71	CT2182LPST-ND	1.32	10.53	93.06	218-2LPST
	4	6.25	CT2184LPST-ND	1.50	12.01	106.18	218-4LPST
	6	8.79	CT2186LPST-ND	1.72	13.72	121.28	218-6LPST
	8	11.33	CT2188LPST-ND	1.95	15.62	138.11	218-8LPST
	10	13.87	CT21810LPST-ND	2.17	17.36	153.45	218-10LPST
	12	16.41	CT21812LPST-ND	2.09	19.18	174.38	218-12LPST
219 Series — SPST, Low Profile Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
8	2	6.55	CT2192LPST-ND	.58	5.32	48.38	219-2LPST
	3	9.09	CT2193LPST-ND	.66	6.04	54.90	219-3LPST
	4	11.63	CT2194LPST-ND	.73	6.68	60.75	219-4LPST
	5	14.17	CT2195LPST-ND	.80	7.38	67.05	219-5LPST
	6	16.71	CT2196LPST-ND	.87	7.99	72.68	219-6LPST
	7	19.25	CT2197LPST-ND	.97	8.86	80.55	219-7LPST
	8	21.79	CT2198LPST-ND	1.02	9.36	85.05	219-8LPST
	9	24.33	CT2199LPST-ND	1.12	10.27	93.38	219-9LPST
	10	26.87	CT21910LPST-ND	1.20	10.99	99.90	219-10LPST
	12	31.95	CT21912LPST-ND	1.36	12.47	113.40	219-12LPST
219 Series — SPST, Medium Surface Mount, Top Actuated, Gold contacts, Tin terminals, Bottom and Top seal							
8	2	6.55	CT2192MST-ND	.58	5.32	48.38	219-2MST
	3	9.09	CT2193MST-ND	.66	6.04	54.90	219-3MST
	4	11.63	CT2194MST-ND	.73	6.68	60.75	219-4MST
	5	14.17	CT2195MST-ND	.80	7.38	67.05	219-5MST
	6	16.71	CT2196MST-ND	.87	7.99	72.68	219-6MST
	7	19.25	CT2197MST-ND	.97	8.86	80.55	219-7MST
	8	21.79	CT2198MST-ND	1.02	9.36	85.05	219-8MST
	9	24.33	CT2199MST-ND	1.12	10.27	93.38	219-9MST
	10	26.87	CT21910MST-ND	1.20	10.99	99.90	219-10MST
	12	31.95	CT21912MST-ND	1.36	12.47	113.40	219-12MST

Thru Hole Selection

Fig. 1 — 206/208 Series

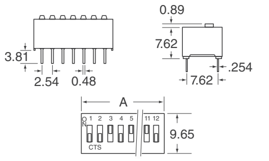

Fig. 2 — 206RA Series

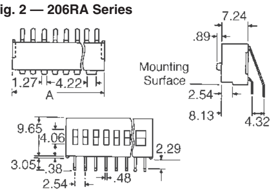

Fig. 3 — 194/195 Series

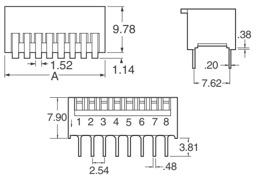

Fig. 4 — 209 Series

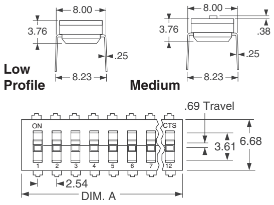

Surface Mount Selection

Fig. 5 — 193 Series

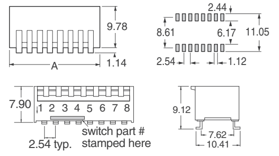

Fig. 6 — 204 Series

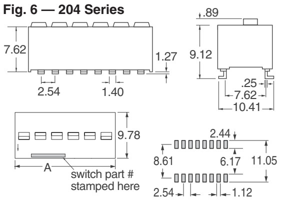

Standard model shown.
Low Profile also available (CT204121LPST-ND)

Fig. 7 — 218 Series

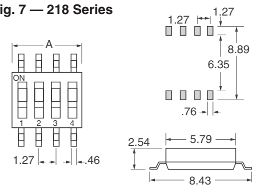

Fig. 8 — 219 Series

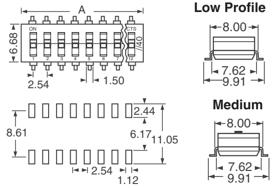

E•SWITCH®

Dip Switches

SPECIFICATIONS: • **Ratings:** Switch: 25mA @ 24VDC; Carry: 100mA @ 50VDC • **Contact Resistance:** Initial 50mΩ typical @ 2-4VDC, 100mA • **Insulation Resistance:** 100MΩ minimum • **Temperature Range:** -40°C ~ 85°C

Fig. 1

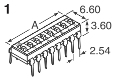

Fig. 2

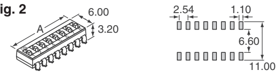

Fig. 3

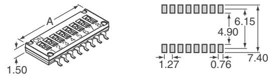

Materials: • **Housing:** PPS UL94V-0, Black finish • **Actuator:** Nylon UL94V-0, White finish • **Movable Contact:** Gold-plated copper alloy • **Terminal Contact:** Gold-plated brass • **Tape Seal:** Mylar, amber color **Operating Life:** 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 4

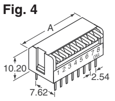

Materials: • **Housing and Actuator:** Glass filled polyester (PBT) UL94V-0 • **Contacts and Terminals:** Phosphor bronze with gold plate over nickel plate

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 5

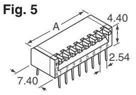

Fig. 6

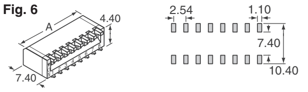

Materials: • **Housing:** Liquid Crystal Polymer (LCP), UL94V-0 • **Actuator:** Nylon UL94V-0 • **Contacts and Terminals:** Copper alloy with gold plate over nickel plate • **Tape Seal:** Tape with adhesive

Operating Life: 500 cycles **Dielectric Strength:** 300V RMS minimum @ sea level between adjacent terminals

Fig. 7

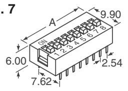

Fig. 8

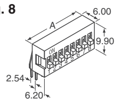

Materials: • **Housing and Actuator:** Glass filled polyester (PBT) UL94V-0 • **Contacts and Terminals:** Phosphor Bronze with gold plate over nickel plate • **Tape Seal:** Mylar

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 9

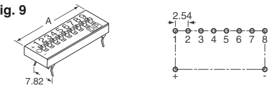

Materials: • **Housing:** Glass filled polyester (PBT) UL94V- 0 **Actuator:** Nylon, UL94V-0 • **Contacts:** Copper alloy with gold plate over nickel plate • **Terminals:** Copper alloy with 90/10 tin-lead plate

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig.	No. of Circuits	Dimension A (mm)	Digi-Key Part No.	Price Each			E-Switch Part No.
				1	10	100	
KAJ Series							
Extended Slide, Low Profile, Unsealed, Through Hole							
1	1	2.54	EG4415-ND	.69	.62	.53	KAJ01LAGT
	2	5.08	EG4417-ND	.72	.64	.55	KAJ02LAGT
	3	7.62	EG4421-ND	.78	.70	.60	KAJ03LAGT
	4	10.16	EG4425-ND	.88	.79	.68	KAJ04LAGT
	5	12.7	EG4429-ND	.98	.88	.76	KAJ05LAGT
	6	15.24	EG4433-ND	1.06	.95	.82	KAJ06LAGT
	8	20.32	EG4441-ND	1.27	1.14	.98	KAJ08LAGT
	9	22.86	EG4445-ND	1.48	1.32	1.14	KAJ09LAGT
Flush Slide, Low Profile, Sealed, Through Hole							
1	2	5.08	EG4419-ND	.76	.68	.59	KAJ02TAGT
	3	7.62	EG4423-ND	.83	.74	.64	KAJ03TAGT
	4	10.16	EG4427-ND	.92	.83	.71	KAJ04TAGT
	6	15.24	EG4435-ND	1.08	.97	.84	KAJ06TAGT
	8	20.32	EG4443-ND	1.33	1.19	1.03	KAJ08TAGT
	9	22.86	EG4447-ND	1.51	1.35	1.16	KAJ09TAGT
	10	25.4	EG4451-ND	1.61	1.44	1.24	KAJ10TAGT
Extended Slide, Low Profile, Unsealed, Gull Wing							
2	2	5.08	EG4418-ND	.72	.64	.55	KAJ02LGGT
	3	7.62	EG4422-ND	.78	.70	.60	KAJ03LGGT
	4	10.16	EG4426-ND	.88	.79	.68	KAJ04LGGT
	5	12.7	EG4430-ND	.98	.88	.76	KAJ05LGGT
	6	15.24	EG4434-ND	1.06	.95	.82	KAJ06LGGT
	7	17.78	EG4438-ND	1.21	1.08	.93	KAJ07LGGT
	8	20.32	EG4442-ND	1.27	1.14	.98	KAJ08LGGT
	9	22.86	EG4446-ND	1.48	1.32	1.14	KAJ09LGGT
	10	25.4	EG4450-ND	1.57	1.40	1.21	KAJ10LGGT
	12	30.48	EG4454-ND	1.86	1.67	1.44	KAJ12LGGT
Flush Slide, Low Profile, Sealed, Gull Wing							
2	1	2.54	EG4416-ND†	.81	.73	.63	KAJ01SGGT
	2	5.08	EG4420-ND	.76	.68	.59	KAJ02TGGT
	3	7.62	EG4424-ND	.83	.74	.64	KAJ03TGGT
	4	10.16	EG4428-ND	.92	.83	.71	KAJ04TGGT
	5	12.7	EG4432-ND	1.02	.92	.79	KAJ05TGGT
	6	15.24	EG4436-ND	1.08	.97	.84	KAJ06TGGT
	8	20.32	EG4444-ND	1.33	1.19	1.03	KAJ08TGGT
	9	22.86	EG4448-ND	1.55	1.39	1.20	KAJ09TGGT
	10	25.4	EG4452-ND	1.61	1.44	1.24	KAJ10TGGT
	12	30.48	EG4456-ND	1.94	1.73	1.49	KAJ12TGGT
KAN Series							
Half-Pitch, Gull Wing							
3	2	3.77	EG4457-ND	2.81	2.52	2.17	KAN1102RT
	4	6.31	EG4458-ND	2.81	2.52	2.17	KAN1104RT
	6	8.85	EG4459-ND	2.81	2.52	2.17	KAN1106RT
	8	11.39	EG4460-ND	3.03	2.71	2.34	KAN1108RT
	10	13.73	EG4461-ND	3.04	2.72	2.34	KAN1110RT
KAP Series							
Extended, Piano, Through Hole							
4	2	6.64	EG4462-ND	1.22	1.09	.94	KAP1102E
	3	9.18	EG4463-ND	1.27	1.14	.98	KAP1103E
	4	11.72	EG4464-ND	1.37	1.22	1.05	KAP1104E
	5	14.26	EG4465-ND	1.41	1.27	1.09	KAP1105E
	6	16.8	EG4466-ND	1.51	1.35	1.17	KAP1106E
	8	21.88	EG4467-ND	1.76	1.57	1.35	KAP1108E
4	10	26.96	EG4469-ND	1.90	1.70	1.47	KAP1110E
KAR Series							
Extended, Piano, Process Sealed, Through Hole							
5	2	7.37	EG4471-ND	.98	.88	.76	KAR02LAGT
	3	9.91	EG4473-ND	1.14	1.03	.88	KAR03LAGT
	4	12.45	EG4475-ND	1.24	1.11	.95	KAR04LAGT
	5	14.99	EG4477-ND	1.51	1.35	1.17	KAR05LAGT
	8	22.61	EG4481-ND	2.06	1.84	1.59	KAR08LAGT
Extended, Piano, Process Sealed, Gull Wing							
6	2	7.37	EG4472-ND	.98	.88	.76	KAR02LGGT
	3	9.91	EG4474-ND	1.19	1.07	.92	KAR03LGGT
	4	12.45	EG4476-ND	1.24	1.11	.95	KAR04LGGT
	5	14.99	EG4478-ND	1.51	1.35	1.17	KAR05LGGT
	6	17.53	EG4480-ND	1.70	1.52	1.31	KAR06LGGT
	8	22.61	EG4482-ND	2.06	1.84	1.59	KAR08LGGT
	10	27.69	EG4484-ND	2.57	2.30	1.98	KAR10LGGT
KAS Series							
Extended Slide, Unsealed							
7	2	6.44	EG4485-ND	.93	.83	.72	KAS1102E
	4	11.52	EG4490-ND	1.07	.96	.83	KAS1104E
	5	14.06	EG4493-ND	1.17	1.05	.90	KAS1105E
	6	16.6	EG4496-ND	1.27	1.14	.98	KAS1106E
	8	21.68	EG4499-ND	1.37	1.22	1.05	KAS1108E
	12	31.84	EG4503-ND	1.90	1.70	1.47	KAS1112E
Extended Slide, Sealed							
7	2	6.44	EG4486-ND	1.02	.92	.79	KAS1102ET
	3	8.98	EG4488-ND	1.07	.96	.83	KAS1103ET
	4	11.52	EG4491-ND	1.17	1.05	.90	KAS1104ET
	5	14.06	EG4494-ND	1.26	1.13	.97	KAS1105ET
	6	16.6	EG4497-ND	1.37	1.22	1.05	KAS1106ET
	8	21.68	EG4500-ND	1.46	1.31	1.13	KAS1108ET
Recessed Slide, Sealed							
7	4	11.52	EG4492-ND	1.17	1.05	.90	KAS1104RT
	5	14.06	EG4495-ND	1.26	1.13	.97	KAS1105RT
	8	21.68	EG4501-ND	1.46	1.31	1.13	KAS1108RT
Extended Slide, Right Angle, Unsealed							
8	2	6.44	EG4506-ND	1.22	1.09	.94	KAS2102E
	4	11.52	EG4508-ND	1.37	1.22	1.05	KAS2104E
	5	14.06	EG4510-ND	1.46	1.31	1.13	KAS2105E
	6	16.6	EG4512-ND	1.56	1.40	1.20	KAS2106E
	8	21.68	EG4514-ND	1.76	1.57	1.35	KAS2108E
Extended Slide, Right Angle, Sealed							
8	2	6.44	EG4507-ND	1.31	1.18	1.01	KAS2102ET
	4	11.52	EG4509-ND	1.46	1.31	1.13	KAS2104ET
	6	16.6	EG4513-ND	1.66	1.48	1.28	KAS2106ET
	8	21.68	EG4515-ND	1.76	1.57	1.35	KAS2108ET
KAT Series							
Tri-State, Unsealed							
9	8	24.3	EG4555-ND	2.63	2.35	2.03	KAT1108E
	9	26.84	EG4517-ND	3.19	2.85	2.46	KAT1109E
	10	29.38	EG4556-ND	3.35	2.99	2.58	KAT1110E

† No Tape Seal

OPTEK

A subsidiary of TT electronics plc

NEW! Encoders

The OPE1275 and OPE2275 are designed for small shaft motors with a shaft diameter of 2mm and a minimum length of 3.8mm. The OPE1275 provides a single channel analog output for speed of rotation while the OPE2275 provides a dual channel analog output for speed and direction of rotation. **Applications:** • Printer Motors • Machine Automation • Machine Safety

Output Type	Pulses per Revolution	Actuator Type	Supply Voltage	Mounting Type	Digi-Key Part No.	Price Each			TTE/OPTEK Technology Part No.
						1	100	250	
Quadrature (Incremental)	128	2mm Open Center	5VDC	Chassis Mount	365-1539-ND	39.41	22.93	22.05	OPE2275H-128
Quadrature (Incremental)	256	2mm Open Center	5VDC	Chassis Mount	365-1540-ND	39.41	22.93	22.05	OPE2275H-256
Quadrature (Incremental)	128	1/4" Dia. Round End	5VDC	Panel Mount	365-1541-ND	39.41	22.93	22.05	OPE2275S-128
Quadrature (Incremental)	256	1/4" Dia. Round End	5VDC	Panel Mount	365-1542-ND	39.41	22.93	22.05	OPE2275S-256
Tachometer	128	2mm Open Center	5VDC	Chassis Mount	365-1535-ND	39.41	22.93	22.05	OPE1275H-128
Tachometer	256	2mm Open Center	5VDC	Chassis Mount	365-1536-ND	39.41	22.93	22.05	OPE1275H-256
Tachometer	128	1/4" Dia. Round End	5VDC	Panel Mount	365-1537-ND	39.41	22.93	22.05	OPE1275S-128
Tachometer	256	1/4" Dia. Round End	5VDC	Panel Mount	365-1538-ND	39.41	22.93	22.05	OPE1275S-256

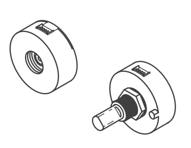

Tyco Electronics
Authorized Distributor

DIP Switches

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Tyco Electronics Part No.
7000 Series – Side Actuated, Unsealed						
1	2	7.11	450-1348-ND	6.09	5.59	1-5435802-0
	3	9.65	450-1421-ND	10.56	9.68	5435802-2
	4	12.19	450-1422-ND	1.55	1.42	5435802-3
	5	14.73	450-1423-ND	1.65	1.52	5435802-4
	6	17.27	450-1424-ND	1.81	1.66	5435802-5
	8	22.35	450-1420-ND	2.14	1.97	5435802-1
	9	24.89	450-1425-ND	2.37	2.18	5435802-7
7000 Series – Side Actuated, Plastisol Sealed						
1	4	12.19	450-1349-ND	2.00	1.84	1-5435802-5
	5	14.73	450-1350-ND	2.26	2.08	1-5435802-6
	8	22.35	450-1427-ND	2.75	2.53	5435802-9
	10	27.43	450-1400-ND	2.88	2.64	2-5435802-0
	12	32.51	450-1401-ND	3.37	3.09	2-5435802-2
7100 Series – Standard Profile, Unsealed						
2	2	7.11	450-1396-ND	3.75	3.44	2-5435640-9
	3	9.65	450-1402-ND	3.81	3.50	3-5435640-0
	4	12.19	450-1414-ND	1.13	1.04	5435640-2
	6	17.27	450-1416-ND	1.37	1.26	5435640-4
	7	19.81	450-1413-ND	1.54	1.42	5435640-1
	8	22.35	450-1417-ND	1.36	1.25	5435640-5
	9	24.89	450-1418-ND	1.80	1.66	5435640-6
	10	27.43	450-1419-ND	1.88	1.73	5435640-7
	12	32.51	450-1403-ND	2.43	2.23	3-5435640-2
7100 Series – Standard Profile, Plastisol Sealed						
2	4	12.19	450-1404-ND	1.30	1.20	3-5435640-5
	5	14.73	450-1405-ND	1.43	1.31	3-5435640-6
	6	17.27	450-1406-ND	1.56	1.44	3-5435640-7
	8	22.35	450-1408-ND	1.74	1.60	3-5435640-9
	9	24.89	450-1411-ND	1.94	1.78	4-5435640-0
	10	27.43	450-1412-ND	2.03	1.86	4-5435640-1
7100 Series – Low Profile, Tape Sealed						
2	4	12.19	450-1410-ND	2.13	1.95	3-5435668-4
	6	17.27	450-1397-ND	2.30	2.11	2-5435668-5
	7	19.81	450-1398-ND	2.37	2.18	2-5435668-7
	8	22.35	450-1399-ND	2.49	2.29	2-5435668-8
	10	27.43	450-1409-ND	2.95	2.71	3-5435668-0
7600 Series – Dip Shunt, Std Pressure						
3	4	10.16	450-1542-ND	.93	.86	1825190-3
	7	17.78	450-1543-ND	1.14	1.05	1825190-6
	10	25.40	450-1544-ND	1.02	.94	1825190-9

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Tyco Electronics Part No.
GDS Series – Low Profile, End to End Stackable						
4	4	10.02	450-1360-ND	2.82	2.59	GDS0404
	6	15.1	450-1362-ND	3.27	3.01	GDS0604
	8	20.18	450-1342-ND	3.04	2.80	GDS0804
5	4	10.02	450-1361-ND	3.29	3.02	GDS04S04
	6	15.1	450-1341-ND	3.89	3.57	GDS06S04
	8	20.18	450-1343-ND	3.52	3.23	GDS08S04
GDH Series – Low Profile, Half Pitch						
6	2	3.66	450-1431-ND	2.97	2.73	GDH02S04
	4	6.2	450-1353-ND	2.91	2.67	GDH04S04
	6	8.75	450-1354-ND	3.24	2.98	GDH06S04
	8	11.29	450-1352-ND	3.64	3.34	GDH08S04
	10	13.82	450-1337-ND	4.92	4.51	GDH10S04
GDR Series – Recessed Rocker						
7	4	11.12	450-1437-ND	4.74	4.35	GDR0404
	6	16.2	450-1438-ND	4.25	3.90	GDR0604
	8	21.28	450-1439-ND	4.56	4.18	GDR0804
ADE Series – Extended Actuator Sealed						
8	2	7.06	450-1363-ND	.96	.89	ADE0204
	4	12.14	450-1364-ND	1.13	1.04	ADE0404
	6	17.22	450-1365-ND	1.27	1.17	ADE0604
	8	22.3	450-1366-ND	1.41	1.29	ADE0804
ADF Series – Flush Actuator Sealed						
8	2	7.06	450-1357-ND	.89	.82	ADF0204
	4	12.14	450-1358-ND	1.04	.96	ADF0404
	6	17.22	450-1359-ND	1.18	1.08	ADF0604
	8	22.3	450-1339-ND	1.32	1.21	ADF0804
	10	27.38	450-1340-ND	2.98	2.74	ADF1004
ADP Series – Piano Actuator Sealed						
9	2	7.06	450-1355-ND	1.64	1.51	ADP0204
	4	12.14	450-1356-ND	1.84	1.69	ADP0404
	6	17.22	450-1338-ND	1.97	1.81	ADP0604
	8	22.3	450-1395-ND	2.26	2.08	ADP0804
STV Series – SIP						
10	2	8.28	450-1638-ND	3.86	3.54	STV02
	4	13.36	450-1639-ND	4.35	3.99	STV04
	8	23.52	450-1640-ND	5.76	5.28	STV08

Fig. 1

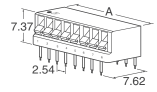

Fig. 2

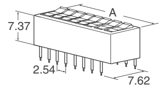

Fig. 3

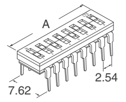

Fig. 4

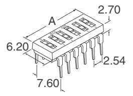

Fig. 5

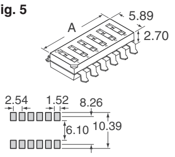

Fig. 6

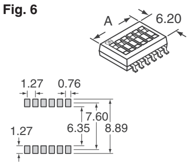

Fig. 7

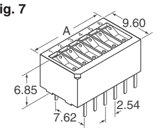

Fig. 8

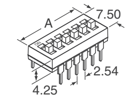

Fig. 9

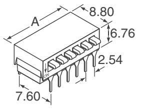

Fig. 10

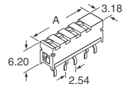

DIP Switches — Preprogrammed

Material: Glass-filled polyester, 94V-0 rated, black • **Contact:** Copper alloy with gold over nickel plating • **Voltage Rating:** 120V ms maximum • **Current Rating:** 1 amp maximum • **Contact Resistance:** 750mΩ maximum at 50mV open circuit • **Life Expectancy:** 500 revolutions • **Actuator:** Screwdriver slot

Switch Type	Tape Seal	Stamping Legend	Digi-Key Part No.	Price Each 1	10	Tyco Electronics Part No.
Hexadecimal with Complement	No	Style I	450-1186-ND	13.47	12.35	53137-5
Hexadecimal with Complement	Yes	Style I	450-1188-ND	13.20	12.10	54792-1
BCD with Complement	No	Style III	450-1190-ND	12.54	11.50	53919-2
BCD with Complement	Yes	Style III	450-1191-ND	12.84	11.77	54778-1

Dim. in mm

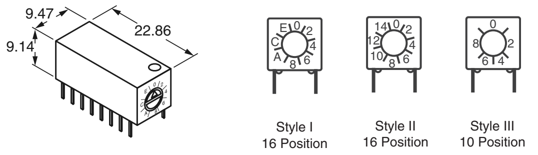

Rotary Switches

Materials:

• **Contacts:** phosphor bronze, gold over nickel plated • **Dielectric Breakdown Voltage:** 500VDC minimum • **Insulation Resistance:** 1x10^{8}Ω • **Initial Contact Resistance:** 25mΩ • **Circuit Capacitance:** 5 picofarads (at 100kHz) • **Durability:** 1000 cycles

Dim. in mm

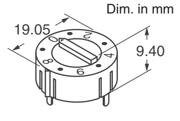

Description	No. of Pos.	Output Code Type	Digi-Key Part No.	Price Each 1	10	Tyco Electronics Part No.
6000 Series						
Screwdriver/Coin Actuated	10	Single Pole	450-1182-ND	22.17	20.23	1-435097-1
Bar-Type Knob	10	BCD	450-1183-ND	37.25	33.99	435123-1

VISHAY. Spectrol

NEW! Single Turn Bushing Mount Hall Effect Sensor

Features: • Accurate linearity of ±0.5% • Long life - greater than 10 Million cycles • Non-contacting technology
Specifications: • Linearity: ±1% • Supply Voltage: 5VDC ±10% • Supply Current: 10mA typical • Recommended Load Resistance: 1kΩ minimum for analog and PWM output

Description	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
360° Analog Output	693-1000-ND	44.63	38.99	35.24	351HE0B4WA1S22

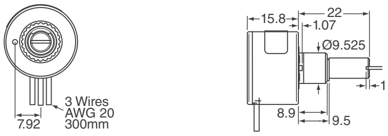

NEW! Hall Effect Position Sensors

Features: • Accurate linearity of ±0.5% • Easy mounting principle • Non-contacting technology • Able to withstand applications in harsh environments
Specifications: • Supply Voltage: 5VDC ±10% • Supply Current: 10mA typical/16mA maximum • Recommended Load Resistance: 1kΩ minimum

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
1	360° Analog Output Continuous Rotation	693-1001-ND	27.89	24.37	22.02	981HE0B4WA1F16
	90° Analog Output Spring Return CW	693-1002-ND	27.89	24.37	22.02	981HE2B1WA1F16
2	360° Analog Output Continuous Rotation	693-1003-ND	24.54	21.45	19.38	981HE0B4WA8H01

Fig. 1

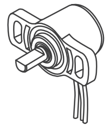

Fig. 2

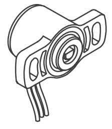

Grayhill INC.

Optical Rotary Encoders Series 61C

Features: • Competitively priced to similar electromechanical switches • Optically coupled for more than a million trouble-free operations • Has data entry pushbutton switch activated by switch shaft • Compatible with CMOS, TTL and HCMOS Logic • Operationally used to move display icon and input data • Used to set radio frequency, drill depth, RPM, etc. Plastic shaft and bushing.
Specifications: • Dimensions: • Shaft: .250” (6.35mm) diameter, .375” (9.52mm) long **• Pin Spacing:** .1” x .025” (2.54mm x .64mm) diameter **• Thread:** 3/8 – 32 **• Overall Diameter:** .750” (19.05mm) **• Encoder Ratings: • Operating Voltage:** 5 ±.25VDC **• Supply Current:** 30mA maximum at 5VDC **• Life:** 1 million cycles of operation, 1 cycle is rotation through all positions and a full return **• Rotational Torque:** 1.5 inch-ounces ± 30% **• Load Current:** 5mA maximum per channel **• Turn-On Time:** ≤30 mSec at 16.6 RPM **• Turn-Off Time:** ≤30 mSec at 16.6 RPM **• Pushbutton Switch Ratings: • Rating:** at 5VDC, 10mA, resistive **• Contact Resistance:** <10Ω **• Life Expectancy:** 3 million operations **• Contact Bounce:** <4 mSec at make <10 mSec at break **• Operating Temperature Range:** -40°C ~ 70°C.

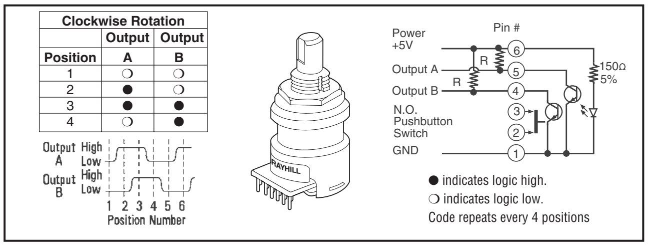

Clockwise Rotation		
	Output	Output
Position	A	B
1	❍	❍
2	●	❍
3	●	●
4	❍	●

● indicates logic high.
❍ indicates logic low.
Code repeats every 4 positions

Position	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
16	GH6101-ND◆	26.73	21.39	16.05	13.37	61C22-01-04-02
32	GH6102-ND	26.73	21.39	16.05	13.37	61C11-01-08-02

◆ *RoHS Compliant*

Optical Rotary Encoders Series 62A

RoHS COMPLIANT

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life. Mates with AMP Connector 7-215079-6 Vertical and 7-215460-6 Right Angle. **Electrical Ratings: • Operating Voltage:** 5 ±.25VDC **• Supply Current:** 30 mA maximum at 5VDC **• Operating Torque:** 2.0 in-oz ±1.40 in-oz initially **• Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)

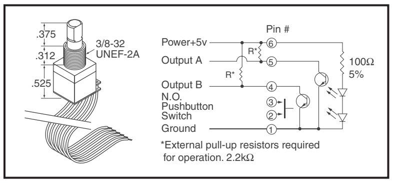

*External pull-up resistors required for operation. 2.2kΩ

Detent Positions	Push-button	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32	No	2” Cable/Connector	GH3046-ND	37.39	29.91	22.44	62A11-01-020S
32	Yes	2” Cable/Connector	GH3047-ND	40.86	32.69	24.52	62A11-02-020S
32	No	5” Cable/Connector	GH3048-ND	38.15	30.53	22.90	62A11-01-050S
32	Yes	5” Cable/Connector	GH3049-ND	41.66	33.33	25.00	62A11-02-050S
32	No	Pin; .100” centers	GH7383-ND	37.39	29.91	22.44	62A11-01-P
32	Yes	Pin; .100” centers	GH7384-ND	40.86	32.69	24.52	62A11-02-P
32	No	6” Cable/Connector	GH7385-ND	38.40	30.73	23.05	62A11-01-060C
32	Yes	6”Cable/Connector	GH7386-ND	41.93	33.55	25.16	62A11-02-060C
24	No	Pin; .100” centers	GH7387-ND	37.39	29.91	22.44	62A15-01-P
24	Yes	Pin; .100” centers	GH7388-ND	40.86	32.69	24.52	62A15-02-P
24	No	6” Cable/Connector	GH7389-ND	38.40	30.73	23.05	62A15-01-060C
24	Yes	6” Cable/Connector	GH7390-ND	41.93	33.55	25.16	62A15-02-060C
16	No	Pin; .100” centers	GH7391-ND	37.39	29.91	22.44	62A22-01-P
16	Yes	Pin; .100” centers	GH7392-ND	40.86	32.69	24.52	62A22-02-P
16	No	6” Cable/Connector	GH7393-ND	38.41	30.73	23.05	62A22-01-060C
16	Yes	6” Cable/Connector	GH7394-ND	41.93	33.55	25.16	62A22-02-060C

Optical Rotary Encoders Series 62S

RoHS COMPLIANT

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life. Mates with AMP Connector 7-215079-6 Vertical and 7-215460-6 Right Angle. **Electrical Ratings: • Operating Voltage:** 5 ± .25VDC **• Supply Current:** 30 mA maximum at 5VDC **• Operating Torque:** 2.20 in-oz ±1.40 in-oz initially **• Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)

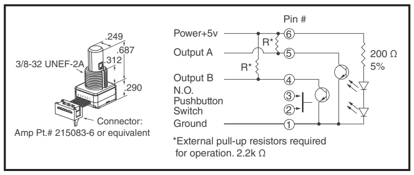

*External pull-up resistors required for operation. 2.2k Ω

Detent Positions	Push-button	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32	Yes	5” Cable/Connector	GH7297-ND	41.66	33.33	25.00	62S11-M5-050C
32	No	5” Cable/Connector	GH7298-ND	38.15	30.53	22.90	62S11-M0-050C
32	No	Pin; .050” centers	GH7395-ND	37.39	29.92	22.44	62S11-M0-P
32	Yes	Pin; .050” centers	GH7396-ND	40.86	32.69	24.52	62S11-M5-P
32	No	6” Cable/Connector	GH7397-ND	38.40	30.73	23.05	62S11-M0-060C
32	Yes	6” Cable/Connector	GH7398-ND	41.93	33.55	25.16	62S11-M5-060C
24	No	Pin; .050” centers	GH7399-ND	37.39	29.92	22.44	62S15-M0-P
24	Yes	Pin; .050” centers	GH7400-ND	40.86	32.69	24.52	62S15-M5-P
24	No	6” Cable/Connector	GH7401-ND	38.40	30.73	23.05	62S15-M0-060C
24	Yes	6” Cable/Connector	GH7402-ND	41.93	33.55	25.16	62S15-M5-060C
16	No	Pin; .050” centers	GH7403-ND	37.39	29.92	22.44	62S22-M0-P
16	Yes	Pin; .050” centers	GH7404-ND	40.86	32.69	24.52	62S22-M5-P
16	No	6” Cable/Connector	GH7405-ND	38.41	30.73	23.05	62S22-M0-060C
16	Yes	6” Cable/Connector	GH7406-ND	41.93	33.55	25.16	62S22-M5-060C

Optical Rotary Encoders Series 62C

RoHS COMPLIANT

Series 62C Concentric Shaft Encoders **Features:** • Economical Size • Combined Functionality • Optically coupled for more than a million cycles of operations • Optional Integral Pushbutton • Detent positions for each code section **Applications:** • Used to set radio frequency, drill depth, RPM, menu selection, parameter selection for patient monitoring devices **Specifications: Push-button Switch Rating:** • 5Vdc, 10mA, resistive • Contact Bounce: less than 4mS at make, less than 10mS at break • Actuation Life: 3,000,000 operations • Actution Force: 1,000 ± 300 grams **Encoder Ratings:** • Operating Voltage: 5 ±.25 Vdc • Supply Current: 50 mA maximum @ 5 Vdc • Operating Torque: 2.0 in.-oz. ± 1.4 in.-oz. • Rotational Life: >1 million cycles of operation • Operating Temperature: -40°C ~ 85°C

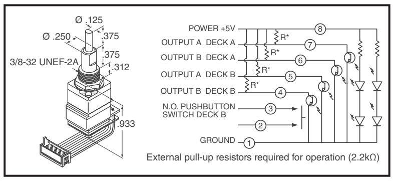

External pull-up resistors required for operation (2.2kΩ)

Detent Positions	Pushbutton	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32/32	No	6” Cable/Connector	GH7375-ND	72.81	58.25	43.69	62C1111-01-060C
32/32	Yes	6” Cable/Connector	GH7376-ND	76.18	60.95	45.72	62C1111-02-060C
16/16	No	6” Cable/Connector	GH7377-ND	72.81	58.25	43.69	62C2222-01-060C
16/16	Yes	6” Cable/Connector	GH7378-ND	76.18	60.95	45.72	62C2222-02-060C
32/16	No	6” Cable/Connector	GH7379-ND	72.81	58.25	43.69	62C1122-01-060C
16/32	No	6” Cable/Connector	GH7380-ND	72.81	58.25	43.69	62C2211-01-060C

Industrial Optical Rotary Encoders

Series 61K, 61R, 63R

RoHS COMPLIANT

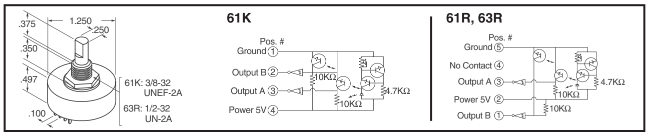

These rugged encoders are designed for continuous operations with high resolution. Made with stainless steel shaft and bushing for exceedingly long life (10 million life cycles). **Features:** • High resolution • Rugged construction • Cable or pinned version • 10 million life cycles • 300 RPM shaft rotation • 61K is a 4 pin output • 61R is a 5 pin output • 63R is a 5 pin output with 300 million life cycles • 5,000 RPM Shaft Rotation • No detents **Specifications:** • Operating Voltage: 5 ± .25VDC • Supply Current: 30mA maximum at 5VDC • Logic Output Characteristics: Output Type: Open collector with integrated Schmitt Trigger and 10KΩ pull-up resistor. Maximum Sink Current: 16mA at .40 Volts. • Power Consumption: 150mW maximum • Optical Rise Time: 500ns • Optical Fall Time: 16ns • Mechanical Life: 10 million revolutions • Time Life: Guaranteed for 10 years of continuous operation (calculated from emitter degradation data) • Operating Temperature Range: -40°C ~ 85°C

Description	Pulse Per Revolution	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Pin PC Mount	64	GH3064-ND	52.23	41.79	36.57	32.39	61K64
4 Pin PC Mount	128	GH3065-ND	52.23	41.79	36.57	32.39	61K128
5” Cable/Connector	128	GH3066-ND	56.80	45.44	39.76	35.22	61K128-050
5 Pin PC Mount	64	GH3067-ND	52.23	41.79	36.57	32.39	61R64
5 Pin PC Mount	128	GH3068-ND	52.23	41.79	36.57	32.39	61R128
5 Pin PC Mount	256	GH7381-ND	52.23	41.79	36.57	32.39	61R256
5 Pin PC Mount	64	GH7382-ND	57.99	46.40	40.60	35.96	63R64
5 Pin PC Mount	128	GH3069-ND	57.99	46.40	40.60	35.96	63R128
5 Pin PC Mount	256	GH3070-ND	60.04	48.04	42.03	37.23	63R256

Note: Contact Digi-Key for cable versions

Optical Rotary Encoders Series 62P

RoHS COMPLIANT

Grayhill's low cost, highly reliable Series 62P Optical Encoders are being designed into automotive controls, white goods, and audio. **Features:** • Compact Size • PC Mount • No De-Bouncing • Up to 2 Million Cycles **Specifications:** • Operating Voltage: 5VDC ±.25 VDC • Supply Current: 30mA @ 5VDC • Logic Rise and Fall: Less than 30Ms • Operating Speed: 100 RPM Maximum • Operating Temperature: -40°C ~ 85°C Materials: • Shaft: Thermoplastic • Detent Rotor: Reinforced Thermoplastic • Bushing: Thermoplastic • Terminals: Brass, Tin Plated

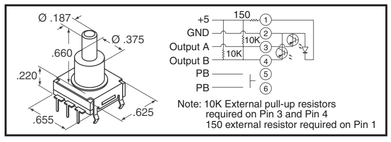

Note: 10K External pull-up resistors required on Pin 3 and Pin 4 150 external resistor required on Pin 1

Position	Description	Digi-Key Part No.	Price Each 1	100	1,000	Grayhill Part No.
16	High Torque	GH7291-ND	5.94	4.70	4.16	62P22-H0
	High Torque, 400 gF Pushbutton	GH7292-ND	6.10	4.82	4.28	62P22-H4
	High Torque, 600 gF Pushbutton	GH7293-ND	6.42	5.08	4.50	62P22-H6
16	Low Torque	GH7294-ND	5.46	4.32	3.83	62P22-L0
	Low Torque, 400 gF Pushbutton	GH7295-ND	6.10	4.82	4.28	62P22-L4
	Low Torque, 600 gF Pushbutton	GH7296-ND	6.42	5.08	4.50	62P22-L6

Mechanical Rotary Encoders

Series 25L

RoHS COMPLIANT

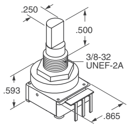

The 25L series of encoders are inexpensive single deck mechanical encoders designed for human interface terminals. **Features**: • Quality construction and contact materials • 100,000 life cycles • Has detents • PC mount **Specifications**: • Switching Loads: 1.5mA @ 115VAC, resistive; 150mA @ 14VDC, resistive • Life Expectancy: 100,000 cycles of operation @ rated loads; one cycle of operation is a rotation through all of the active positions and a return to the starting position • Operating Temperature: -40°C ~ 85°C **Materials and Finishes**: • Bushing/Housing and Shaft: Reinforced Thermoplastic • Detent Ball: Stainless Steel, nickel-plated

Detent Positions	Angle of Throw	Output Code	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
36	10°	Quadrature (2-bit)	GH3071-ND	5.35	4.28	3.21	2.68	25LB10-Q
32	11°	Quadrature (2-bit)	GH7407-ND	5.35	4.28	3.21	2.68	25LB11-Q
24	15°	Quadrature (2-bit)	GH3072-ND	5.35	4.28	3.21	2.68	25LB15-Q
20	18°	Quadrature (2-bit)	GH7408-ND	5.35	4.28	3.21	2.68	25LB18-Q
16	22.5°	Quadrature (2-bit)	GH3073-ND	5.35	4.28	3.21	2.68	25LB22-Q
16	22.5°	Hexadecimal (4-bit)	GH3074-ND	5.35	4.28	3.21	2.68	25LB22-H
16	22.5°	Gray (4-bit)	GH7299-ND	5.35	4.28	3.21	2.68	25LB22-G
12	30°	Quadrature (2-bit)	GH7409-ND	5.35	4.28	3.21	2.68	25LB30-Q
8	45°	Quadrature (2-bit)	GH7410-ND	5.35	4.28	3.21	2.68	25LB45-Q

Mechanical Rotary Encoders Series 26

Series 26 rotary encoders are PC mounted mechanical encoders that come complete with a threaded shaft (mounting hardware included) and internal detents for user feedback • User selectable for either continuous rotation or present stops (two supplied) • Gray code output - continuous rotation - no stop pins • Fully sealed with panel and shaft seal for use in the harshest environments. **Specifications:** • Electrical Rating: 25,000 cycles with logic compatible loads. Make and break 200mA **Materials and Finishes:** • Panel Seal: Silicone Rubber • Shaft Seal: Flourosilicone • Detent Balls: Carbon steel, nickel plated • Terminals: Brass, gold plated over nickel plate • Contacts: Copper alloy, gold plated over nickel plate • Shaft, Stop Arm and Stop Pins: Stainless Steel • Bushings: Zamak II tin/zinc alloy, zinc-plated

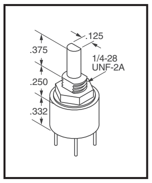

Code And Truth Table

Switch Position	Code Position	BCD Output* 1	2	4	8	Gray Output* 1	2	4	8
1	0								
2	1	●				●			
3	2		●			●	●		
4	3	●	●				●		
5	4			●			●	●	
6	5	●		●		●	●	●	
7	6		●	●		●		●	
8	7	●	●	●				●	
9	8				●			●	●
10	9	●			●	●		●	●
11	10		●		●	●	●	●	●
12	11	●	●		●		●	●	●
13	12			●	●		●		●
14	13	●		●	●	●	●		●
15	14		●	●	●	●			●
16	15	●	●	●	●				●

* Dot indicates terminal tied to common.

Pull-to-Turn feature available: The Pull-to-Turn isolated - stops to prevent accidental actuation. Available in either one or multiple positions. Contact Digi-Key for ordering.

Detent Positions	Angle of Throw	Output Code	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
8	45°	Binary Code	GH3075-ND	16.08	12.87	9.65	8.04	26ASD45-01-1-AJS
8	45°	Gray Code	GH7411-ND	27.27	21.82	16.37	13.64	26GSD45-01-1-AJS
16	22.5°	Binary Code	GH3076-ND	16.08	12.87	9.65	8.04	26ASD22-01-1-AJS
16	22.5°	Gray Code	GH7412-ND	27.27	21.82	16.37	13.64	26GSD22-01-1-AJS
16	22.5°	Gray Code	GH3077-ND	24.64	19.72	14.79	12.32	26GS22-01-1-16S-C

Mechanical Rotary Encoders Series 288 and 290

Fig. 1

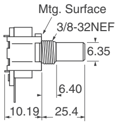

Fig. 2 – Vertical Mount with Switch

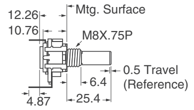

Fig. 3 – Horizontal Mount with Switch

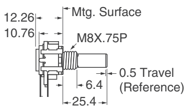

Fig. 4

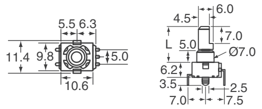

	288 Series	290 Series
Body Size	16mm	9mm
Shaft Material	Metal	Metal
Operating Temperature	-25°C ~ 100°C	-30°C ~ 70°C
Switch Life	15,000 Actuations	100,000 Actuations
Resolution	16 CPR	20 CPR

Fig.	Description	Shaft Type	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
Series 288 — Binary Switching Codes — RoHS Compliant									
1	2 Bit Non-Detent	Round	—	CT3001-ND	2.58	2.40	2.00	1.80	288T232R161A1
	2 Bit Detent	Round	—	CT3002-ND	2.43	2.26	1.88	1.70	288T232R161A2
2	2 Bit Detent	Round	—	CT2999-ND	2.99	2.79	2.31	2.09	288V232R161B2
3	2 Bit Detent	Round	—	CT3000-ND	2.97	2.76	2.30	2.07	288X232R161B2
Series 290 — Commercial Miniature Encoder									
4	2 Bit Non-Detent	Round	20	CT3004-ND	2.63	2.45	2.03	1.84	290VAB0R201A1
	2 Bit Detent	Round	20	CT3005-ND◆	2.65	2.47	2.05	1.86	290VAB0R201A2
	2 Bit Non-Det., w/Switch	Round	20	CT3006-ND◆	3.08	2.87	2.38	2.15	290VAB0R201B1
	2 Bit Detent, w/Switch	Round	20	CT3007-ND◆	3.11	2.90	2.41	2.17	290VAB0R201B2
	2 Bit Non-Detent	Round	20	CT3008-ND◆	2.49	2.32	1.93	1.74	290VAA5F201A1
	2 Bit Detent	Flatted	15	CT3009-ND◆	2.52	2.35	1.95	1.76	290VAA5F201A2
	2 Bit Non-Det., w/Switch	Flatted	15	CT3010-ND◆	2.94	2.74	2.28	2.06	290VAA5F201B1
	2 Bit Detent, w/Switch	Flatted	15	CT3011-ND◆	2.97	2.77	2.30	2.08	290VAA5F201B2

◆ ***RoHS Compliant***

CLAROSTAT

Optical Rotary Encoders Series: 510, 600, 601V, Transducers and Sensors

Series 510: The Series 510 controls are manually operated, rotary, mechanical encoders that provide a two-bit gray code for relative reference applications and a four-bit gray code for absolute electrical reference applications. They are commonly used in limited space panel-mounted applications where the need for costly, front-panel displays can be completely eliminated. **Environmental Characteristics:** • Operating Temperature: -40°C ~ 105°C

Series 600 and 601: Electrical Specifications: The Series 600 and 601 controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulses per channel per revolution as a standard with other resolutions down to 60 pulses available. The outputs are TTL compatible. • Input Power: 4 volts DC ±5% @ 30mA maximum plus external requirements • Output Rate: 128 pulses/revolution per channel-standard • Output Voltage: High level voltage: 2.4 volts minimum with 10KΩ load to ground • Low level voltage: 0.4 volt maximum **Environmental Characteristics:** • Operating Temperature: -20°C ~ 65°C **Mechanical Characteristics:** • Shaft Rotation: Continuous in either direction, 300RPM maximum • Terminals: P/C Type: .025" (.64mm) by 0.12" (3.05mm) thick brass, gold plated to facilitate soldering • Cable Type: Four lead ribbon cable, color-coded, with .050" (1.27mm) spacing • 28AWG stranded copper wire, .039" (.99mm) diameter • Strength: Terminals withstand 2 pounds push and pull and a 90° bend.

Dim. in mm

Model 510 – 4 Cycle

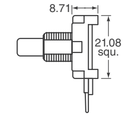

Model 510 – 16 Cycle

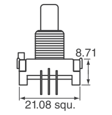

Model 600 – Cable Style

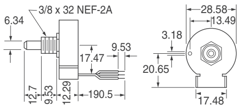

Model 601 – PC Terminal (Vertical)

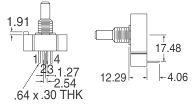

Rotary Position Transducer

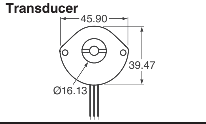

Rotary Hall Effect Sensor

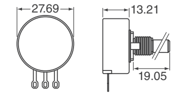

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
4 Cycle Gray Code PCB	480-3273-ND	6.81	510E1A48F204PB
6 Cycle Gray Code PCB	480-3274-ND	6.81	510E1A48F206PB
6 Cycle Gray Code PCB	480-3275-ND	6.32	510E1A48F206PC
9 Cycle Gray Code PCB	480-3276-ND	7.16	510E1A48F209PB
9 Cycle Gray Code PCB	480-3277-ND	6.38	510E1A48F209PC
16 Cycle Gray Code PCB	480-3278-ND	6.78	510E1A48F416PC
Cable Version	600CS-ND	33.37	600128CBL
Vertical PC Version	601VCS-ND	32.61	600128C24
Rotary Position Transducer, 180°, 10KΩ	480-3279-ND	18.93	640CS103A06NAAY
Rotary Position Transducer, 90°, 10KΩ	480-3280-ND	18.93	640ES103A06NAAY
Rotary Hall Effect Sensor	480-3281-ND	32.26	HRS100SSAB090

Panel Mount Optical Encoders

Electrical Specifications: • Supply Voltage: 5VDC ±5% • Supply Current: 20mA Maximum (open collector) • Output Code: 2-bit Quadature, Channel A leads Channel B by 90° with clockwise rotation **Push Switch Specifications**: • Rated Voltage: 12VDC, 50mA **Environmental Specifications**: • Operating Temperature Range: 0°C ~ 60°C

Dim. in mm

Fig. 1

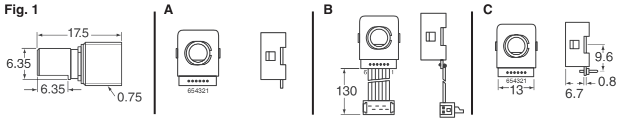

Fig.	Positions	Detent	Pushbutton	Digi-Key Part No.	Price Each 1	10	25	CUI Inc. Part No.
1A	16	Yes	No	102-1903-ND	22.96	21.81	20.66	C14D16N-A3
	16	Yes	Yes	102-1904-ND	22.96	21.81	20.66	C14D16P-A3
	16	No	Yes	102-1919-ND	22.96	21.82	20.67	C14N16P-A3
	16	No	No	102-1920-ND	22.96	21.82	20.67	C14N16N-A3
	32	Yes	Yes	102-1923-ND	22.96	21.82	20.67	C14D32P-A3
	32	Yes	No	102-1924-ND	22.96	21.82	20.67	C14D32N-A3
	32	Yes	Yes	102-2032-ND† ***NEW!***	25.72	24.43	23.15	C14D32P-A3A
	32	Yes	No	102-2033-ND† ***NEW!***	25.72	24.43	23.15	C14D32N-A3A
	32	No	No	102-1911-ND	22.96	21.81	20.66	C14N32N-A3
	32	No	Yes	102-1912-ND	22.96	21.81	20.66	C14N32P-A3
1B	16	Yes	Yes	102-1921-ND	26.08	24.78	23.48	C14D16P-B3
	16	Yes	No	102-1922-ND	26.08	24.78	23.48	C14D16N-B3
	16	No	No	102-1905-ND	26.08	24.78	23.47	C14N16N-B3
	16	No	Yes	102-1906-ND	26.08	24.78	23.47	C14N16P-B3
	32	Yes	No	102-1913-ND	26.08	24.78	23.47	C14D32N-B3
	32	Yes	Yes	102-1914-ND	26.08	24.78	23.47	C14D32P-B3
	32	Yes	Yes	102-2034-ND† ***NEW!***	29.20	27.74	26.28	C14D32P-B3A
	32	Yes	No	102-2035-ND† ***NEW!***	29.20	27.74	26.28	C14D32N-B3A
	32	No	Yes	102-1925-ND	26.08	24.78	23.48	C14N32P-B3
	32	No	No	102-1926-ND	26.08	24.78	23.48	C14N32N-B3
1C	16	Yes	No	102-1907-ND	26.08	24.78	23.47	C14D16N-C3
	16	Yes	Yes	102-1908-ND	26.08	24.78	23.47	C14D16P-C3
	16	No	No	102-1909-ND	26.08	24.78	23.47	C14N16N-C3
	16	No	Yes	102-1910-ND	26.08	24.78	23.47	C14N16P-C3
	32	Yes	No	102-1915-ND	26.08	24.78	23.47	C14D32N-C3
	32	Yes	Yes	102-1916-ND	26.08	24.78	23.47	C14D32P-C3
	32	Yes	Yes	102-2036-ND† ***NEW!***	29.20	27.74	26.28	C14D32P-C3A
	32	Yes	No	102-2037-ND† ***NEW!***	29.20	27.74	26.28	C14D32N-C3A
	32	No	No	102-1917-ND	26.08	24.78	23.47	C14N32N-C3
	32	No	Yes	102-1918-ND	26.08	24.78	23.47	C14N32P-C3

† IP65: Waterproof

CUI INC Modular 16 Resolutions Programmable AMT Encoder

The code generation technology of the AMT modular encoder represents a breakthrough in cost versus resolution with benefits such as low current consumption, broad operating temperature range and a low profile, lightweight mechanical design. Benefits the AMT encoder offers over competitors include 16 selectable resolutions, index pulse included, more mounting options, and 9 bore size options all included in one package. **Features:** • Current Consumption: <10mA • Operating temperature range: -40°C ~ 100°C • Resolution: 16 dip switch selectable resolutions 48ppr ~ 2048ppr **Specifications:** • Index pulse • Straight or right angle header • Assembled in USA • 5 Year unconditional warranty • TTL voltage output • 2500+ options in 1 encoder (AMT102-V) or 1700+ options in AMT103-V • Avago HEDS5500 and US Digital E2 or E5 replacement. *Includes sleeve size to fit these diameter shafts: 2mm, 3mm, 3.175mm, 4mm, 4.76mm, 5mm, 6mm, 6.35mm and 8mm*

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	500	CUI Part No.
1	Modular Encoder Horizontal Version	102-1308-ND	29.95	28.50	26.00	23.00	21.00	AMT103-V KIT
—	Line Driver Cable for AMT-103 1M	102-1788-ND	7.15	6.50	5.85	5.53	5.04	CUI-103E-10
—	Shielded Interface Cable Horizontal 1ft	102-1504-ND	4.15	2.93	—	2.40	2.14	CUI-435-1FT
—	Shielded Interface Cable Horizontal 6ft	102-1310-ND	9.30	7.00	—	6.00	5.50	CUI-3934-6FT
2	Modular Encoder Vertical Version	102-1307-ND	29.95	28.50	26.00	23.00	21.00	AMT102-V-KIT
—	Line Driver Cable for AMT-102 1M	102-1787-ND	7.15	6.50	5.85	5.53	5.04	CUI-102E-10
—	Shielded Interface Cable Vertical 1ft	102-1503-ND	4.15	2.93	—	2.40	2.14	CUI-3132-1FT
—	Shielded Interface Cable Vertical 6ft	102-1309-ND	7.20	5.76	—	4.80	4.48	CUI-3131-6FT

Dimensions in mm

Fig. 1 – Horizontal

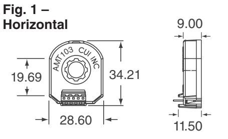

Fig. 2 – Vertical

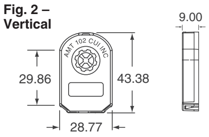

NEW! AMT203 Absolute Encoder and AMT303 Commutation Encoder

The **AMT203** is a 12 bit absolute rotatary encoder with SPI serial bus for working as a slave to an external microprocessor. Direct, incremental A, B, and Index signals are included as an option for high speed operation. The Index occurs once per rotation. The SPI serial bus outputs a position reading that is absolute over a full turn with 12 bit (4,096) resolution.

The **AMT303** is a commutation encoder with standard U, V, W signals and up to 1,024ppr (4,096 counts) of incremental A/B position feedback and Index position signals. These are direct outputs compatible with any device requiring encoder or commutation input. The AMT303-DMK can accommodate brushless motors with 2, 4, 5, 8, 10 or 12 poles. The SPI serial bus allows programming of commutation settings, resolution, BLDC motor pole count and other encoder features. The Incremental Index channel is aligned to the codewheel pattern which is one pulse per 360 degrees. Commutation zero position is programmable by grounding a pin, eliminating a time-consuming and tedious mechanical alignment.

The AMT203 and AMT303 encoders contain two capacitive channels: a Fine channel and a Coarse channel. The Fine channel has 16 wavelengths of a periodic capacitive pattern, while the Coarse channel has 5 wavelengths. Each channel has its own ASIC that interpolates the channels to a resolution of 256 increments per wavelength. A microprocessor on the encoder PCB combines the two channels to achieve the absolute, incremental and commutation outputs depending on the model.

The AMT203-DMK and ATM303-DMK are easy to use demo kits designed for the AMT203 absolute and ATM303 communtation modular encoders. The kits allow for stand alone demonstration or direct access to programmable features in production. They are outstanding tools for experimentation and familiarization with AMT203 and AMT202 features

Dimensions in mm

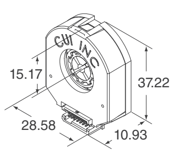

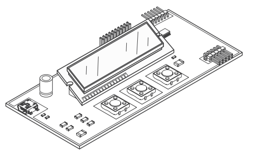

Description	Voltage Supply (VDC)	Resolution (ppr)	Channels	Operating Temperature	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
AMT203 12 bit SPI ABS Encoder Kit	4.5 ~ 5.5	2^{12} (4,096)	ABS, A, B, Z	-40°C ~ 115°C	102-2050-ND	63.18	57.92	53.46	AMT203-V
AMT303 Commutation SPI Encoder Kit	4.5 ~ 5.5	1,024	A, $\overline{A}$, B, $\overline{B}$, Z, $\overline{Z}$, U, V, W	-40°C ~ 115°C	102-2051-ND	46.40	42.53	39.26	AMT303-V
Demo Kits									
Kit Contents: AMT203-V modular encoder kit, Demo Board, AMT203 to demo board cable, USB cable, Flash drive, and power adapter	4.5 ~ 5.5	2^{12} (4,096)	—	—	102-2052-ND	159.00	—	—	AMT203-DMK
Kit Contents: AMT303-V modular encoder kit, Demo Board, AMT303 to demo board cable, USB cable, Flash drive, and power adapter	4.5 ~ 5.5	1,024	—	—	102-2053-ND	149.00	—	—	AMT303-DMK

Mechanical Rotary Encoders

CUI's mechanical rotary encodes provide high versatility at a very low cost. The functionality is similar to optical encoders but without the high price tag. With options in shaft length, shaft style, mounting orientation, and push button function, these items are ideal for consumer electronics, appliance, automotive, and many other applications. **Features:** • Current Consumption: 0.05 ~ 10mA • Operating temperature range: -10°C ~ 65°C • Resolution: selectable resolutions 12ppr ~ 24ppr

Fig.	Description	Shaft	Bushing	Dimensions (mm) L	H	Digi-Key Part No.	Price Each 1	10	100	500	CUI Part No.
1	Horizontal 12ppr, 10mA	B	Threaded	15	5	102-1739-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15KQA1-12C
	Horizontal 12ppr, 10mA	B	Threaded	20	5	102-1740-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20KQA1-12C
	Horizontal 12ppr, 10mA	B	Smooth	15	5	102-1741-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15KQA1-12C
	Horizontal 12ppr, 10mA	B	Smooth	20	5	102-1742-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20KQA1-12C
	Horizontal 12ppr, 10mA	A	Threaded	15	5	102-1743-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15FA1-12C
	Horizontal 12ppr, 10mA	A	Threaded	20	5	102-1744-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20FA1-12C
	Horizontal 12ppr, 10mA	A	Smooth	15	5	102-1745-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15FA1-12C
	Horizontal 12ppr, 10mA	A	Smooth	20	5	102-1746-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20FA1-12C
	Horizontal 20ppr, 10mA	B	Threaded	15	5	102-1747-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15KQA1-20C
	Horizontal 20ppr, 10mA	B	Threaded	20	5	102-1748-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20KQA1-20C
	Horizontal 20ppr, 10mA	B	Smooth	15	5	102-1749-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15KQA1-20C
	Horizontal 20ppr, 10mA	B	Smooth	20	5	102-1750-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20KQA1-20C
	Horizontal 20ppr, 10mA	A	Threaded	15	5	102-1751-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15FA1-20C
	Horizontal 20ppr, 10mA	A	Threaded	20	5	102-1752-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20FA1-20C
	Horizontal 20ppr, 10mA	A	Smooth	15	5	102-1753-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15FA1-20C
	Horizontal 20ppr, 10mA	A	Smooth	20	5	102-1754-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20FA1-20C
2	Vertical 12ppr, 10mA	B	Threaded	15	5	102-1755-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15KQD1-12C
	Vertical 12ppr, 10mA	B	Threaded	20	5	102-1756-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20KQD1-12C
	Vertical 12ppr, 10mA	B	Smooth	15	5	102-1757-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15KQD1-12C
	Vertical 12ppr, 10mA	B	Smooth	20	5	102-1758-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20KQD1-12C
	Vertical 12ppr, 10mA	A	Threaded	15	5	102-1759-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15FD1-12C
	Vertical 12ppr, 10mA	A	Threaded	20	5	102-1760-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20FD1-12C
	Vertical 12ppr, 10mA	A	Smooth	15	5	102-1761-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15FD1-12C
	Vertical 12ppr, 10mA	A	Smooth	20	5	102-1762-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20FD1-12C
	Vertical 20ppr, 10mA	B	Threaded	15	5	102-1763-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15KQD1-20C
	Vertical 20ppr, 10mA	B	Threaded	20	5	102-1764-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20KQD1-20C
	Vertical 20ppr, 10mA	B	Smooth	15	5	102-1765-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15KQD1-20C
	Vertical 20ppr, 10mA	B	Smooth	20	5	102-1766-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20KQD1-20C
	Vertical 20ppr, 10mA	A	Threaded	15	5	102-1767-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-15FD1-20C
	Vertical 20ppr, 10mA	A	Threaded	20	5	102-1768-ND	3.60	3.12	2.40	1.99	ACZ11BR1E-20FD1-20C
	Vertical 20ppr, 10mA	A	Smooth	15	5	102-1769-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-15FD1-20C
	Vertical 20ppr, 10mA	A	Smooth	20	5	102-1770-ND	3.60	3.12	2.40	1.99	ACZ11BR4E-20FD1-20C
3	Horizontal 12ppr, 0.5mA	B	Threaded	15	5	102-1771-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15KQA1-12C
	Horizontal 12ppr, 0.5mA	B	Threaded	20	5	102-1772-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20KQA1-12C
	Horizontal 12ppr, 0.5mA	A	Threaded	15	5	102-1773-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15FA1-12C
	Horizontal 12ppr, 0.5mA	A	Threaded	20	5	102-1774-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20FA1-12C
	Horizontal 24ppr, 0.5mA	B	Threaded	15	5	102-1775-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15KQA1-24C
	Horizontal 24ppr, 0.5mA	B	Threaded	20	5	102-1776-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20KQA1-24C
	Horizontal 24ppr, 0.5mA	A	Threaded	15	5	102-1777-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15FA1-24C
	Horizontal 24ppr, 0.5mA	A	Threaded	20	5	102-1778-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20FA1-24C
4	Horizontal 12ppr, 0.5mA	B	Threaded	15	5	102-1779-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15KQD1-12C
	Horizontal 12ppr, 0.5mA	B	Threaded	20	5	102-1780-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20KQD1-12C
	Horizontal 12ppr, 0.5mA	A	Threaded	15	5	102-1781-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15FD1-12C
	Horizontal 12ppr, 0.5mA	A	Threaded	20	5	102-1782-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20FD1-12C
	Horizontal 24ppr, 0.5mA	B	Threaded	15	5	102-1783-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15KQD1-24C
	Horizontal 24ppr, 0.5mA	B	Threaded	20	5	102-1784-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20KQD1-24C
	Horizontal 24ppr, 0.5mA	A	Threaded	15	5	102-1785-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-15FD1-24C
	Horizontal 24ppr, 0.5mA	A	Threaded	20	5	102-1786-ND	2.10	1.82	1.40	1.16	ACZ16NBR1E-20FD1-24C

Fig. 1

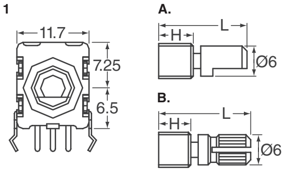

Fig. 2

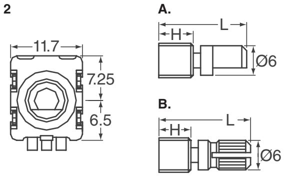

Fig. 3

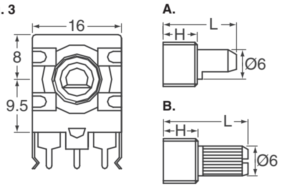

Fig. 4

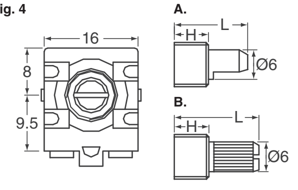

Panasonic® Mechanical Rotary Encoders

Fig. 1

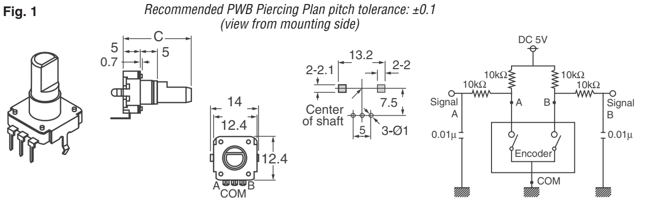
Recommended PWB Piercing Plan pitch tolerance: ±0.1 (view from mounting side)

Fig. 2

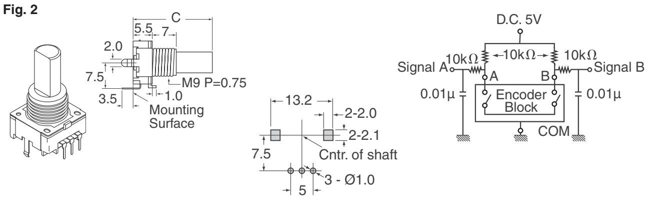

Fig. 3

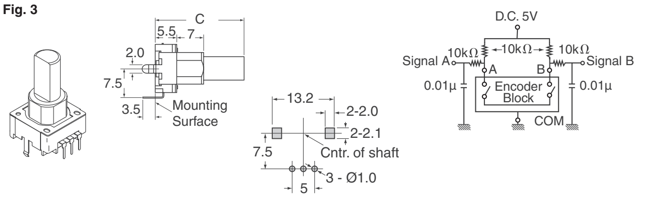

Fig. 4

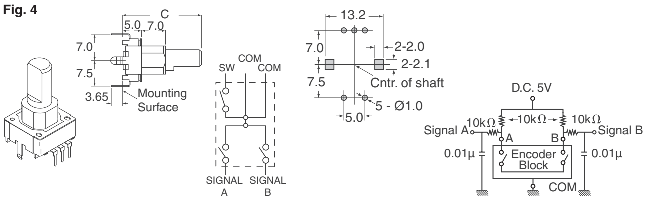

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Inclination: 0.7 x H/30 mm p-p max. • Rotation Torque: Standard type: 3mN-m to 20mN-m; EVE-K type: 10mN-m to 50mN-m

Electrical: • Output Signals: Phase A and B • Resolution: 12, 20, 24 pulses/360° • Rating: DC 5V/10V 1mA • Contact Resistance: 1Ω maximum • Insulation Resistance: DC 50V 10MΩ minimum • Dielectric Withstanding Voltage: 1 minute at 50VAC • Bouncing: 3/5 ms maximum

Physical, Environment Life: • Operating Life: Standard life: 30,000 cycles, minimum

Operating Temperature: -10°C ~ 60°C

Storage Temperature: -40°C ~ 85°C

Fig.	Description (mm)	Dim. C (mm)	Detent/ Pulse	Digi-Key Part No.	Price Each			Panasonic Part No.
					1	10	100	
1	12	17.5	24/24	P10859-ND	1.31	1.09	.92	EVE-GA1F1724B
	12	20	24/24	P10860-ND	1.31	1.09	.92	EVE-GA1F2024B
	12	20	12/12	P12331-ND	.69	.58	.49	EVE-GA1F2012B
2	12	20	12/12	P12332-ND	.76	.64	.53	EVE-GC1F2012B
	12	20	–/24	P12334-ND	.76	.64	.53	EVE-KC2F2024B
3	12	20	12/12	P12333-ND	.64	.54	.45	EVE-GE1F2012B
	12	20	–/24	P12335-ND	.64	.54	.45	EVE-KE2F2024B
4	12	20	20/20	P12336-ND	1.57	1.31	1.10	EVE-JBBF2020B

Center Space Encoders

EVQ Series:
Encoder with a center space, which meets the requirements of multiple operation controllers.

Recommended Applications: • Car audio products (adjustment of volume, tone, tuners, etc.) • AV equipment (control of edit functions of VCRs, CD players, MD players, etc.) • Remote control of car navigation systems

Features: • Multiple unit construction can be achieved by mounting switches, LEDs, etc. in the through hole at the center (center space) on the printed wiring board. • High reliability • Ready for transparent shafts (to enhance the light diffusion)

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Detents: EVQ-1WF: 20 points; EVQ-WFP: 30 points

Electrical: • Output Signal: Phase A and B • Resolution: EVW-1WF: 10 pulses/360°; EVQ-WFP: 15 pulses/360° • Rating: 1mA, 10VDC • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute

Endurance: • Rotation Life: EVW-1WF: 50,000 cycles minimum; EVQ-WFP: 30,000 cycles minimum

Operating Temperature: -40°C ~ 85°C

Fig. 1

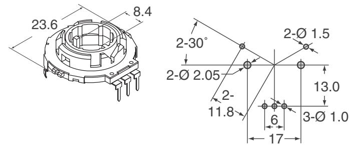

Fig. 2

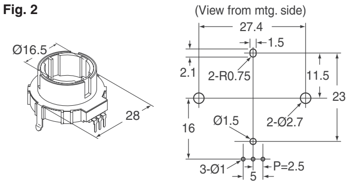

Fig.	Description (mm)	Detent/ Pulse	Digi-Key Part No.	Price Each			Panasonic Part No.
				1	10	100	
1	22	20/10	P12337-ND	2.05	1.71	1.44	EVQ-1WF00210B
2	27	30/15	P12419-ND	5.05	4.21	3.54	EVQ-WFP00415B

11mm Square Encoder with Push-lock Feature

Recommended Applications:
• Volume control or mode switch selector for car audio • Signal input for selector monitors and AV equipment

Features:
• New type encoder with a push-lock feature • Push-lock Travel: 8.4mm maximum

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100N minimum • OP Force Switch: 7n maximum • Rotation Torque: 3 mN·m to 17 mN·m • Detents: 30 points **Electrical:** • Resolution: 15 pulses/360° • Output Signal: A and B (2 Phases) • Rating: 1mA, 5Vdc (encoder); 10mA, 5Vdc (switch) • Contact Resistance: 1mΩ maximum • Insulation Resistance: 100MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute **Endurance:** • Rotation Life (encoder): 15,000 cycles • Operating Life (Push-lock): 10,000 cycles

Operating Temperature: -30°C ~ 85°C

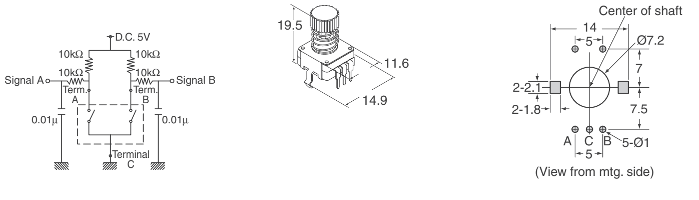

Description	Digi-Key Part No.	Price Each			Panasonic Part No.
		1	10	100	
Rotary Encoder, Vertical	P12425-ND	7.17	5.98	5.02	EVQ- WEH00115B

Edge Drive Jog Encoders

EVQWK Series: Recommended Applications: • Menu selection and input for portable electronic equipment

Features: • Excellent operation feeling • Push-on switch with a clear-click operation • Compact, thin profile • Reflow soldering

Specifications:

Mechanical: • Encoder: • Detents: 15 points • Rotation Torque 1mN·m ~ 10mN·m • Push-on Switch: Travel: 0.3mm • Operating Force: 4.5N±1.5N

Electrical: • Encoder: • Pulses: 15 • Output Signals: 2-phase (A and B) • Contact Resistance: 1Ω maximum • Push-on Switch: Contact Resistance: 100mΩ

Endurance: • Encoder/Push-on Switch: Operating Life: 100,000 cycles minute

Fig. 1

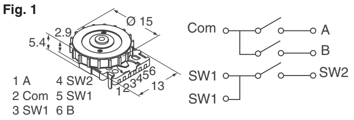

Fig. 2

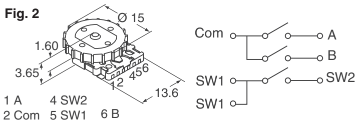

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	Panasonic Part No.
			1	10	100		600	
1	5.4mm SMD	P13382S-ND*	6.66	5.56	4.67	—	—	EVQ-WK4001
2	3.65mm SMD	P13381SCT-ND	7.01	5.85	4.91	P13381STR-ND	2102.40	EVQ-WKA001

* Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® 11mm and 16mm Square Encoders

EVE-P/EVE-Q: Recommended Applications: • Centralized control of automotive audio equipment, navigation systems and air conditioners. **Features:** • Smooth, high rotational torque • Long life achieved by the high click torque • Runout protection: Runout: 0.1mm max. **Specifications: Mechanical:** • Rotation Angle: 360° (endless) • Rotation Torque: 40 mN·m maximum • Detents: EVE-P: 16; EVE-Q: 32 **Electrical:** • Output Signals: Phase A and B • Resolution: EVE-P 8 pulses/360°; EVE-Q 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute **Switch Part:** • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 6N • Travel: 0.5mm **Endurance:** • Rotation Life: 1,000,000 cycles minimum • Operating Life: 1,000,000 times minimum **Operating Temperature:** -40°C ~ 85°C (45-85% RH)

EVE-V: Recommended Applications: • Car audio, navigation systems and air conditioners. **Features:** • Low Profile: 4mm • Wave soldering type • Integrated push-ON switch **Specifications: Mechanical:** • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100 N·m minimum • Rotation Torque: 3 mN·m to 20 mN·m • Detents: 32 **Electrical:** • Output Signals: Phase A and B • Resolution: 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute • Bouncing: 5 ms maximum **Switch Part:** • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 1.5mm travel type: 4N • Travel: 1.5mm **Endurance:** • Rotation Life (encoder): 30,000 cycles minimum • Operating Life (switch): 50,000 times minimum **Operating Temperature:** -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	8 PPR, SPST, 16 Detents, 21.5mm Height	P12420-ND◆	10.55	8.80	7.39	EVE-PDBRG508B
	16 PPR, SPST, 32 Detents, 21.5mm Height	P12422-ND	9.86	8.23	6.91	EVE-QDBRG516B
2	8 PPR, SPST, 16 Detents, 25.4mm Height	P12421-ND◆	10.55	8.80	7.39	EVE-PDBRL408B
	16 PPR, SPST, 32 Detents, 25.4mm Height	P12423-ND	9.86	8.23	6.91	EVE-QDBRL416B
3	16 PPR, SPST, 32 Detents, 20mm Height	P12418-ND◆	3.21	2.68	2.25	EVE-VCGJL016B

◆ *RoHS Compliant*

Fig. 1

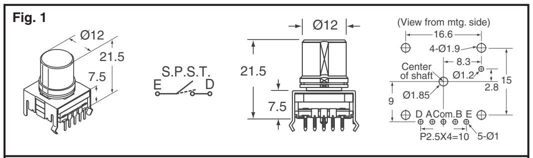

Fig. 2

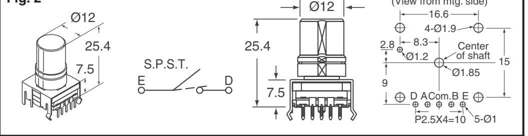

Fig. 3

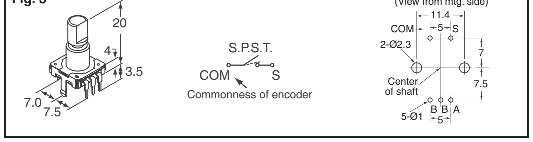

BOURNS® 14mm Rotary Optical Encoder

Electrical Characteristics: • **Electrical Output:** 2-bit quadrature code • **Supply Voltage (V_{CC}):** 5.0VDC ±0.25 VDC • **Supply Current (I_{CC}):** 26mA maximum • **Output Voltage:** Low ($V_{CE(sat)}$), per Channel: 800mV maximum @ $I_{(SINK)}$=25mA; High ($V_{O(HI)}$), per Channel: 4.0VDC minimum @ V_{CC}=4.75VDC • **Output Current $I_{(SINK)}$, per Channel:** 25mA minimum • **Rise/Fall Time:** 200ns • **Power Dissipation:** 167mW maximum • **Pulse Width (per Channel):** 180°e • **Phase Angle (Channel A Leads Channel B, Clockwise Rotation):** 90°e ±45°e • **Insulation Resistance @ 500VDC:** 1,000MΩ minimum • **RPM (Operating):** Non-Dentent, 300 maximum • **Switch Power Rating:** 12VDC/20mA (600Ω maximum load) • **Switch Contact Resistance:** 200Ω maximum • **Mounting hardware included**

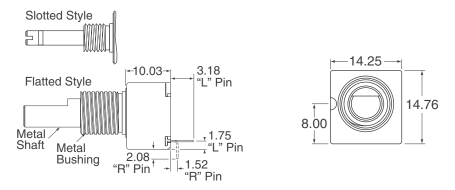

Bushing Dimensions D x L (mm)	Shaft Dimensions D x L (mm)	Shaft Style	Terminal Style	W/Switch Yes/No	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
9.52 x 9.52	6.35 x 22.23	Slotted	Axial	Yes	8	EM14A0D-B28-L008S-ND	19.10	14.62	13.85
9.52 x 9.52	6.35 x 19.05	Flatted	Axial	No	32	EM14A0D-C24-L032N-ND	17.90	13.70	12.98
9.52 x 9.52	6.35 x 19.05	Flatted	Axial	Yes	64	EM14A0D-C24-L064S-ND	19.10	14.62	13.85
6.35 x 6.35	3.18 x 19.05	Slotted	Axial	Yes	64	EM14C0D-E24-L064S-ND	19.10	14.62	13.85
6.35 x 6.35	3.18 x 22.23	Slotted	Axial	No	64	EM14C0D-E28-L064N-ND	17.90	13.70	12.98

Digital Contacting Encoders

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW) • Closed Circuit Resistance: 5Ω maximum • Open Circuit Resistance: 100kΩ minimum • Contact Rating: 10Milliamp @ 10VDC or 0.1 watt maximum • Insulation Resistance (500VDC): 1,000MΩ minimum • Dielectric Withstanding Voltage: 1,000VAC minimum • Electrical Travel: Continuous • Contact Bounce (15 RPM): 5 milliseconds maximum • RPM (Operating): 120 maximum **Environmental Characteristics:** • Operating Temperature Range: -40°C ~ 85°C **Mechanical Characteristics:** • Mechanical Angle: Continuous • Mounting hardware sold separately

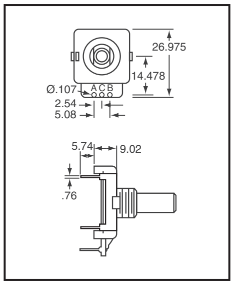

Anti-Rotation Lug Position	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
None	24	ECW1D-B24-BC0024L-ND	3.46	2.70	2.20
9:00	24	ECW1J-B24-BC0024L-ND	3.46	2.70	2.20

Description	Digi-Key Part No.	Pricing 1	10	100	1,000
Lockwasher for ECW Encoder	H-37-2-ND	.16	1.24	7.47	59.85
Mounting Nut for ECW Encoder	H-38-11-ND	.53	4.13	24.90	199.50

Rotary Optical Encoders

Electrical Characteristics:

- Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise
- Supply Voltage: 5.0VDC ±0.25VDC • Supply Current: 26mA maximum • Output Voltage: 0.8V maximum for low output and 4V minimum for high output • Output Current (Low Output): 25mA minimum • Insulation Resistance (500VDC): 1,000MΩ • Rise/Fall Time: 200ns (typical) • Shaft RPM (Ball Bearing): 3,000rpm maximum • Power Consumption: 136mW maximum • Pulse Width (Electrical Degrees, Each Channel): 180° ±45° Typical • Pulse Width (Index Channel): 360° ±90° • Phase (Electrical Degrees, Channel A to Channel B): 90° ±45° Typical • Index Channel Centered on 1-1 State Combination of A and B Channels: 0° ±45°

Environmental Characteristics:

- Operating Temperature Range (Standard): -40°C ~ 75°C

Mechanical Characteristics:

- Mechanical Rotation: Continuous
- Mounting hardware included

Fig. 1

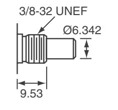

Fig. 2

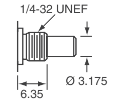

Fig. 3

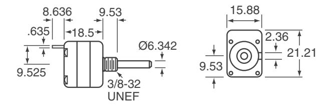

Fig.	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
1	64	ENA1J-B28-L00064L-ND	51.37	40.00	32.67
	100	ENA1J-B28-L00100L-ND	51.37	40.00	32.67
2	128	ENC1J-D28-L00128L-ND	51.37	40.00	32.67
3	256	ENS1J-B28-L00256L-ND	82.74	64.43	52.62

9mm Square/Sealed Encoder

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by electrically turning clockwise (CW): 6 pulses per resolution • Closed Circuit Resistance: 5Ω maximum • Open Circuit Resistance: 100kΩ minimum • Contact Rating: TTL compatible loads • Insulation Resistance (500VDC): 1,000MΩ minimum • Dielectric Withstanding Voltage: (Sea Level) 900VAC minimum; (Electrical Travel) Continuous • Contact Bounce (15 RPM): 5 milliseconds max. • RPM (Operating): 120 maximum **Environmental Characteristics:** • Operating Temperature Range: -40°C ~ 125°C • Rotational Life: 100,000 cycles **Mechanical Characteristics:** • Mechanical Angle: 360° Continuous • Mounting hardware included

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100
1	9mm Square Right Angle Encoder	3315C-001-006L-ND	2.17	1.98	1.70	1.38
2	9mm Square Vertical Encoder	3315Y-001-006L-ND	2.77	2.45	2.06	1.76

Fig. 1

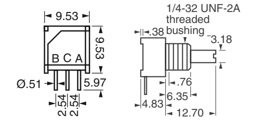

Fig. 2

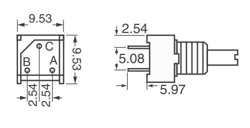

SMT Reed Relays

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C ~ 100°C **• Operating Temperature:** -20°C ~ 85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's
APPLICATIONS: Automated Test Equipment, Instrumentation and Telecommunications requirements.

Dimensions in Inches (mm)

Fig. 1
High reliability, hermetically sealed contacts for long life. Low profile – 0.190" height. Meets high board density requirements. 50Ω Coaxial Shield for RF and Fast Rise Time Pulse switching.

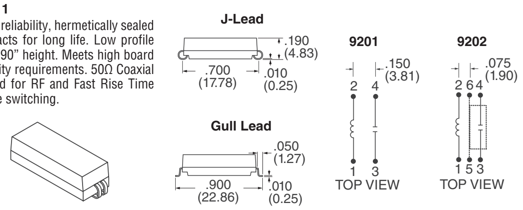

Fig. 2
Small surface mount package. Low capacitance (Contact to Shield – 1.1 pF typical). Coaxial shield for 50V impedance. Excellent for RF and Fast Rise Time Pulse switching (up to 2.0 GHz).

Series	Dimensions - Inches (mm) L	W	H
9301 J-Lead	.700 (17.78)	.240 (6.09)	.270 (6.86)
9401 J-Lead	.500 (12.70)	.225 (5.71)	.225 (5.71)
9401 Gull Lead	.700 (17.78)	.225 (5.71)	.225 (5.71)
9402 J-Lead	.500 (12.70)	.225 (5.71)	.225 (5.71)
9402 Gull Lead	.700 (17.78)	.225 (5.71)	.225 (5.71)

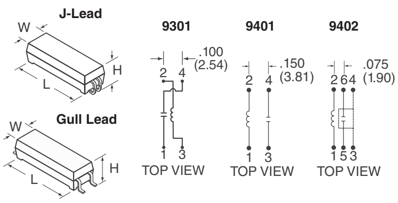

Fig. 3
Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary switch technology. The external Magnetic Shield reduces interaction between parts in high density boards. 9852 adds a form C capability. Small size plus added features allow for high density packing, and make these relays ideal for designs such as high speed, high pin count VLSI testers where speed, size and performance are all needed.

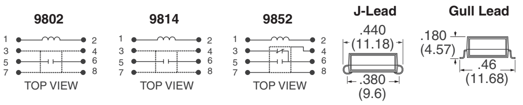

Fig. 4
High reliability, hermetically sealed contacts for long life. Low profile 0.193" maximum height. Minimum Footprint .140" Square 50Ω Co-axial Shield for RF and Fast Rise Time Pulse switching. UL Recognized.

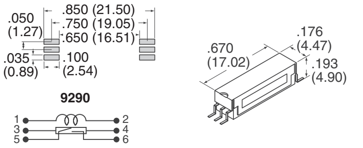

Fig. 5
Coto's 9900 Series is the smallest Surface Mount Reed Relay available. The external magnetic shield reduces interaction between parts in high density boards. Ideal for high speed, high pin count VLSI testers where speed, size and performance are all needed.

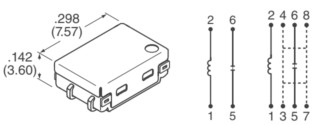

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	20	0.5	1.5	SMT - J-Lead	306-1068-ND	7.05	5.97	5.00	4.02	9201-05-20
	SPST	12	14.5	0.5	1.5	SMT - J-Lead	306-1203-ND	7.05	5.97	5.00	4.02	9201-12-20
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, Gull Lead	306-1069-ND	7.28	6.16	5.16	4.15	9202-05-00
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, J-Lead	306-1070-ND	7.28	6.16	5.16	4.15	9202-05-20
2	SPST	5	20	0.5	1.5	SMT - J-Lead	306-1199-ND	7.05	5.97	5.00	4.02	9301-05-20
	SPST	12	14.5	0.5	1.5	SMT - J-Lead	306-1200-ND	7.05	5.97	5.00	4.02	9301-12-20
	SPST	5	20	0.5	1	SMT - Gull Lead	306-1071-ND	8.06	6.82	5.71	4.59	9401-05-00
	SPST	5	20	0.5	1	SMT - J-Lead	306-1201-ND	8.06	6.82	5.71	4.59	9401-05-20
	SPST	12	14.5	0.5	1	SMT - Gull Lead	306-1072-ND	8.06	6.82	5.71	4.59	9401-12-00
	SPST	5	25	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1119-ND	6.92	5.99	5.06	4.39	9402-05-00
	SPST	5	20	0.5	1	50Ω Coaxial Shield, J-Lead	306-1073-ND	6.92	5.99	5.06	4.39	9402-05-20
	SPST	12	14.5	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1074-ND	6.92	5.99	5.06	4.39	9402-12-00
3	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1075-ND	8.42	7.29	6.16	5.35	9802-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1202-ND	8.42	7.29	6.16	5.35	9802-05-10
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1076-ND	8.42	7.29	6.16	5.35	9802-05-20
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1156-5-ND	7.59	6.57	5.55	4.82	9814-03-00
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1157-5-ND	7.59	6.57	5.55	4.82	9814-03-10
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1158-5-ND	7.59	6.57	5.55	4.82	9814-03-20
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1159-5-ND	7.59	6.57	5.55	4.82	9814-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1160-5-ND	7.59	6.57	5.55	4.82	9814-05-10
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1161-5-ND	7.59	6.57	5.55	4.82	9814-05-20
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1162-5-ND	30.93	27.26	23.57	21.36	9852-03-00
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1163-5-ND	30.93	27.26	23.57	21.36	9852-03-10
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1164-5-ND	30.93	27.26	23.57	21.36	9852-03-20
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1165-5-ND	30.93	27.26	23.57	21.36	9852-05-00
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1166-5-ND	30.93	27.26	23.57	21.36	9852-05-10
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1167-5-ND	30.93	27.26	23.57	21.36	9852-05-20
4	SPST	5	31	0.5	1.5	50Ω EMI Shield, Low Profile	306-1141-ND	6.76	5.72	4.79	3.85	9290-05-00
	SPST	12	20	0.5	1.5	50Ω EMI Shield, Low Profile	306-1142-ND	6.76	5.72	4.79	3.85	9290-12-00
5	SPST	5	33.3	0.25	0.50	SMT - J-Lead	306-1197-ND	6.84	5.92	5.00	4.34	9901-05-20
	SPST	5	33.3	0.25	0.50	50Ω Coaxial Shield, J-Lead	306-1198-ND	10.45	9.05	7.64	6.64	9903-05-20

Reed Relays

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C ~ 100°C **• Operating Temperature:** -20°C ~ 85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's

Dimensions in Inches (mm)

Fig. 1

The 2200 Series is ideally suited to the needs of Automated Test Equipment and RF requirements. High speed switching compared to electromechanical relays. Hermetically sealed contacts for long life. Epoxy coated steel shell provides magnetic shielding. Optional Electrostatic Shield for reducing capacitive coupling

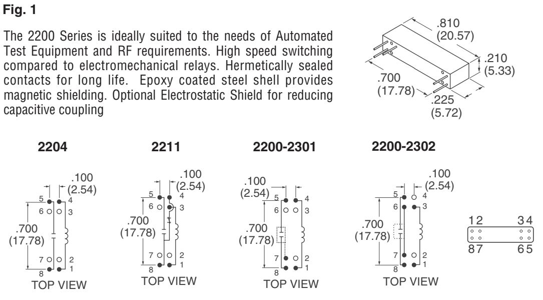

Fig. 2

The Coto 2300 Series was designed to offer the densest packaging available in a multiple reed relay. The size and footprint of the 2300 series compliment the 2200 and 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally closed contacts which are more reliable than the spring actuated 1 Form C reed switches.

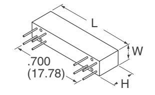

Series	Dimensions - Inches (mm) L	W	H
2332/2333 **2341/2342**	.810 (20.57)	.210 (5.33)	.370 (9.40)
2904/2911	.820 (20.83)	.250 (6.35)	.280 (7.11)

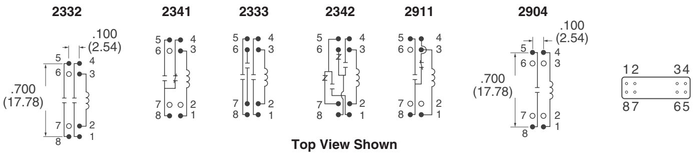

Top View Shown

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	33.3	0.5	1.0	With Electrostatic Shield	306-1001-ND	9.52	8.24	6.96	6.04	2200-2301
	SPST	5	33.3	0.5	1.0	With Coaxial Shield	306-1002-ND	9.75	8.44	7.13	6.19	2200-2302
	SPST	5	13.5	0.5	1.0	—	306-1003-ND	8.61	7.45	6.29	5.47	2204-05-401
	SPST	5	13.5	0.5	1.0	With Electrostatic Shield	306-1004-ND	8.87	7.68	6.48	5.63	2204-05-411
	SPST	12	8	0.5	1.0	—	306-1105-ND	8.76	7.59	6.41	5.57	2204-12-301
	SPST	12	8	0.5	1.0	With Electrostatic Shield	306-1005-ND	9.02	7.81	6.60	5.73	2204-12-311
	SPDT	5	21.8	0.25	0.5	—	306-1006-ND	12.01	10.59	9.16	8.30	2211-05-301
	SPDT	12	8	0.25	0.5	—	306-1007-ND	12.24	10.79	9.33	8.46	2211-12-301
2	DPST	5	28.5	0.5	1.5	—	306-1106-ND	8.87	7.68	6.48	5.63	2332-05-000
	DPST	12	12	0.5	1.5	—	306-1008-ND	8.87	7.68	6.48	5.63	2332-12-000

(Continued)

Dimensions in Inches (mm)

Fig. 3

The 5500 Series High Voltage Reed Relays are ideally suited to the needs of Instrumentation Industrial Process Controls and General Purpose requirements. High Dielectric Strength - 10,000 Volts isolation across contacts. Hermetically sealed Tungsten contacts for long life. Low contact resistance - 0.080Ω typical. Magnetic Shield standard.

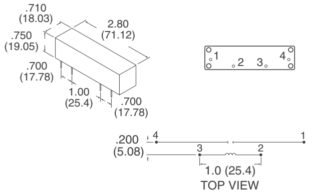

Fig. 4

The 7000 Series is ideally suited to the needs of Instrumentation, Data Acquisition, Process Control, Telecommunications and General Purpose requirements. These models are specifically designed for high quality and reliability with versatile switching capabilities and contact forms. Wide range of switching capabilities. Potted in metal shell - Magnetic Shield. PCB mounting versatility - 1.0” x 0.100” grid.

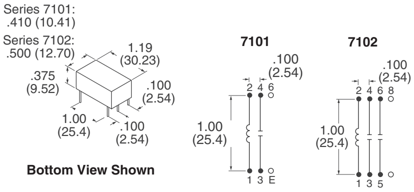

Fig. 5

The 8000 Series Dip Relay is ideal for the high reliability of ATE, Instrumentation and Data Acquisition applications. Proven to 500 million operations. The Coto 8L Spartan Series relays combine Coto quality and economy in the industry standard 14 pin molded DIP package. This series will cross to all competitive DIP packages and is ideal for telecom, security, and other general purpose applications.

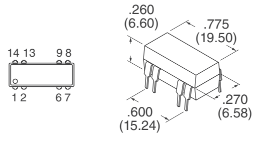

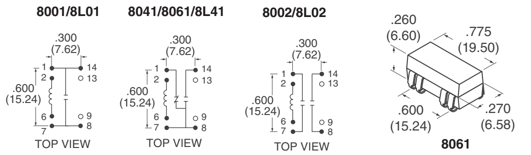

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
2	3PST	5	28.5	0.5	1.5	—	306-1109-ND	11.05	9.57	8.08	7.02	2333-05-000
	3PST	12	12	0.5	1.5	—	306-1110-ND	11.05	9.57	8.08	7.02	2333-12-000
	SPDT	5	28.5	0.5	1.5	—	306-1107-ND	12.35	10.69	9.03	7.84	2341-05-000
	SPDT	12	12	0.5	1.5	—	306-1108-ND	12.35	10.69	9.03	7.84	2341-12-000
	DPDT	5	28.5	0.25	0.5	—	306-1111-ND	13.65	12.03	10.40	9.43	2342-05-000
	DPDT	12	12	0.25	0.5	—	306-1112-ND	13.65	12.03	10.40	9.43	2342-12-000
	SPST	12	8	0.5	1.5	—	306-1009-ND	9.18	7.95	6.71	5.83	2904-12-301
	SPDT	5	28.5	0.25	1.0	—	306-1204-ND	11.38	10.03	8.68	7.86	2911-05-301
	SPDT	5	28.5	0.25	1.0	With Electrostatic Shield	306-1205-ND	11.57	10.20	8.82	7.99	2911-05-311
	SPDT	5	13.5	0.25	1.0	With Coaxial Shield	306-1113-ND	11.87	10.46	9.04	8.20	2911-05-321
	SPDT	12	12	0.25	1.0	—	306-1206-ND	11.51	10.14	8.77	7.95	2911-12-301
	SPDT	12	8	0.25	1.0	With Coaxial Shield	306-1114-ND	12.01	10.59	9.16	8.30	2911-12-321
3	SPST	5	12.5	3.0	5.0	High Voltage - 7500V	306-1207-ND	28.50	25.11	21.72	19.68	5501-05-1
	SPST	12	68.6	3.0	5.0	High Voltage - 7500V	306-1010-ND	29.02	25.57	22.12	20.04	5501-12-1
	SPST	24	41.7	3.0	5.0	High Voltage - 7500V	306-1011-ND	29.57	26.05	22.53	20.42	5501-24-1
4	SPST	12	16.7	0.5	2.0	High Reliability with E.S.	306-1012-ND	12.48	10.80	9.12	7.92	7101-12-1010
	SPST	12	16.7	0.5	2.0	High Reliability with E.S. and Diode	306-1013-ND	11.78	10.38	8.98	8.14	7101-12-1011
	DPST	12	16.7	0.5	2.0	High Reliability with E.S.	306-1014-ND	12.05	10.62	9.19	8.33	7102-12-1010
	DPST	12	16.7	0.5	2.0	High Reliability wtih E.S. and Diode	306-1015-ND	13.73	12.10	10.47	9.49	7102-12-1011
5	SPST	5	10	0.5	1.0	Extended Lifetime	306-1016-ND	3.22	2.73	2.28	1.84	8001-05-001
	DPST	5	25	0.5	1.0	Extended Lifetime with E.S.	306-1017-ND	5.07	4.29	3.59	2.89	8002-05-10
	DPST	12	24	0.5	1.0	Extended Lifetime	306-1192-ND	4.84	4.10	3.43	2.76	8002-12-00
	SPDT	5	25	0.25	0.5	Extended Lifetime	306-1018-ND	7.77	6.58	5.50	4.43	8041-05-001
	SPDT	5	25	0.25	0.5	SMD Dip	306-1208-ND	6.53	5.65	4.77	4.15	8061-05-001
	SPDT	5	25	0.25	0.5	SMD Dip with E.S. Shield	306-1209-ND	6.71	5.81	4.91	4.26	8061-05-101
	SPDT	12	24	0.25	0.5	SMD Dip	306-1210-ND	6.66	5.76	4.87	4.23	8061-12-001
	SPDT	12	24	0.25	0.5	SMD Dip with Diode	306-1211-ND	6.79	5.88	4.96	4.31	8061-12-011
	SPST	5	10	0.5	1.0	Economy	306-1019-ND	2.57	2.18	1.82	1.47	8L01-05-001
	SPST	5	10	0.5	1.0	Economy with Diode	306-1020-ND	2.80	2.37	1.98	1.60	8L01-05-011
	SPST	5	10	0.5	1.0	Economy with E.S.	306-1021-ND	2.80	2.37	1.98	1.60	8L01-05-101
	SPST	5	10	0.5	1.0	Economy with E.S. and Diode	306-1022-ND	3.06	2.59	2.17	1.74	8L01-05-111
	SPST	12	24	0.5	1.0	Economy	306-1023-ND	2.57	2.18	1.82	1.47	8L01-12-001
	SPST	12	24	0.5	1.0	Economy with Diode	306-1024-ND	2.80	2.37	1.98	1.60	8L01-12-011
	SPST	12	24	0.5	1.0	Economy with E.S. and Diode	306-1026-ND	3.06	2.59	2.17	1.74	8L01-12-111
	SPST	24	11.1	0.5	1.0	Economy	306-1027-ND	2.57	2.18	1.82	1.47	8L01-24-001
	SPST	24	11.1	0.5	1.0	Economy with Diode	306-1028-ND	2.80	2.37	1.98	1.60	8L01-24-011
	SPST	24	11.1	0.5	1.0	Economy with E.S.	306-1029-ND	2.80	2.37	1.98	1.62	8L01-24-101
	SPST	24	11.1	0.5	1.0	Economy with E.S. and Diode	306-1030-ND	3.06	2.59	2.17	1.74	8L01-24-111
	DPST	5	25	0.5	1.0	Economy	306-1031-ND	3.87	3.28	2.74	2.21	8L02-05-00
	DPST	5	25	0.5	1.0	Economy with Diode	306-1032-ND	4.13	3.50	2.93	2.35	8L02-05-01
	DPST	5	25	0.5	1.0	Economy with E.S.	306-1033-ND	4.13	3.50	2.93	2.35	8L02-05-10
	DPST	5	25	0.5	1.0	Economy with E.S. and Diode	306-1034-ND	4.58	3.88	3.25	2.61	8L02-05-11
	DPST	12	24	0.5	1.0	Economy	306-1035-ND	3.87	3.28	2.74	2.21	8L02-12-00
	DPST	12	24	0.5	1.0	Economy with Diode	306-1036-ND	4.13	3.50	2.93	2.35	8L02-12-01
	DPST	12	24	0.5	1.0	Economy with E.S.	306-1037-ND	4.13	3.50	2.93	2.35	8L02-12-10
	DPST	12	24	0.5	1.0	Economy with E.S. and Diode	306-1038-ND	4.58	3.88	3.25	2.61	8L02-12-11
	DPST	24	11.1	0.5	1.0	Economy	306-1039-ND	3.87	3.28	2.74	2.21	8L02-24-00
	DPST	24	11.1	0.5	1.0	Economy with Diode	306-1040-ND	4.13	3.50	2.93	2.35	8L02-24-01
	DPST	24	11.1	0.5	1.0	Economy with E.S. and Diode	306-1042-ND	4.58	3.88	3.25	2.61	8L02-24-11
	SPDT	5	25	0.25	0.5	Economy	306-1043-ND	7.12	6.03	5.04	4.06	8L41-05-001
	SPDT	5	25	0.25	0.5	Economy with Diode	306-1044-ND	7.38	6.25	5.23	4.20	8L41-05-011
	SPDT	5	25	0.25	0.5	Economy with E.S.	306-1045-ND	7.38	6.25	5.23	4.20	8L41-05-101
	SPDT	5	25	0.25	0.5	Economy with E.S. and Diode	306-1046-ND	7.67	6.49	5.43	4.37	8L41-05-111
	SPDT	12	24	0.25	0.5	Economy	306-1047-ND	7.12	6.03	5.04	4.06	8L41-12-001
	SPDT	12	24	0.25	0.5	Economy with Diode	306-1048-ND	7.38	6.25	5.23	4.20	8L41-12-011
	SPDT	12	24	0.25	0.5	Economy with E.S.	306-1050-ND	7.38	6.25	5.23	4.20	8L41-12-101
	SPDT	12	24	0.25	0.5	Economy with E.S. and Diode	306-1051-ND	7.67	6.49	5.43	4.37	8L41-12-111
	SPDT	24	11.1	0.25	0.5	Economy	306-1052-ND	7.38	6.25	5.23	4.20	8L41-24-001
	SPDT	24	11.1	0.25	0.5	Economy with E.S.	306-1053-ND	7.67	6.49	5.43	4.37	8L41-24-101
	SPDT	24	11.1	0.25	0.5	Economy with E.S. and Diode	306-1054-ND	7.93	6.71	5.62	4.52	8L41-24-111
6	SPST	5	10	0.5	1.5	Extended Lifetime	306-1055-ND	4.13	3.50	2.93	2.35	9001-05-00
	SPST	5	10	0.5	1.5	Extended Lifetime with Diode	306-1056-ND	4.32	3.66	3.06	2.47	9001-05-01
	SPST	12	12	0.5	1.5	Extended Lifetime	306-1057-ND	4.13	3.50	2.93	2.35	9001-12-00
	SPST	12	12	0.5	1.5	Extended Lifetime with Diode	306-1058-ND	4.32	3.66	3.06	2.47	9001-12-01
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield	306-1059-ND	5.36	4.54	3.80	3.06	9002-05-00
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield with Diode	306-1060-ND	5.53	4.68	3.91	3.15	9002-05-01
	SPST	12	16	0.5	1.5	50Ω Coaxial Shield	306-1118-ND	5.36	4.54	3.80	3.06	9002-12-00
	SPST	12	12	0.5	1.5	50Ω Coaxial Shield with Diode	306-1061-ND	5.53	4.68	3.91	3.15	9002-12-01
	SPST	5	10	0.5	1.0	Economy	306-1062-ND	1.30	1.10	.92	.74	9007-05-00
	SPST	5	10	0.5	1.0	Economy with Diode	306-1063-ND	1.46	1.24	1.04	.84	9007-05-01
	SPST	12	12	0.5	1.0	Economy	306-1064-ND	1.30	1.10	.92	.74	9007-12-00
	SPST	5	10	0.5	1.0	Economy	306-1115-ND	3.58	3.03	2.53	2.04	9081-05-00
	SPST	24	12	0.5	1.0	Economy	306-1117-ND	3.93	3.33	2.79	2.24	9081-24-00
	SPST	5	10	0.5	1.0	With EMI Shield	306-1138-ND	3.74	3.17	2.65	2.13	9081-05-10
	SPST	5	10	0.25	1.5	Miniature Sip	306-1065-ND	4.42	3.74	3.13	2.52	9091-05-00
	SPST	5	10	0.25	1.5	Miniature Sip with Diode	306-1066-ND	4.58	3.88	3.25	2.61	9091-05-01
	SPST	12	12	0.25	1.5	Miniature Sip with Diode	306-1067-ND	4.58	3.88	3.25	2.61	9091-12-01
	SPST-NO	5	40	0.5	1.5	Miniature Sip	306-1212-ND ***NEW!***	5.07	4.29	3.59	2.89	9094-05-00
	SPST-NO	5	40	0.5	1.5	Miniature Sip with Diode	306-1213-ND ***NEW!***	5.27	4.46	3.73	3.00	9094-05-01
	SPST-NO	12	24	0.5	1.5	Miniature Sip	306-1214-ND ***NEW!***	5.07	4.29	3.59	2.89	9094-12-00
	SPST-NO	12	24	0.5	1.5	Miniature Sip with Diode	306-1215-ND ***NEW!***	5.27	4.46	3.73	3.00	9094-12-01
7	SPDT-C/O	5	40	0.4	1.0	Standard Version	306-1175-ND	8.11	7.02	5.93	5.15	9081C-05-00
	SPDT-C/O	5	40	0.4	1.0	With EMI Shield	306-1176-ND	8.81	7.63	6.45	5.60	9081C-05-10
	SPDT-C/O	12	24	0.4	1.0	Standard Version	306-1177-ND	8.27	7.16	6.05	5.25	9081C-12-00

(Continued)

Dimensions in Inches (mm)

Fig. 6

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9007 Spartan Series is a general purpose economy version of the 9001 for applications with less stringent requirements. The 9081 Spartan Series is similar to the 9007, but with alternate industry standard footprints to accommodate other options, including Form C types. These relays are well suited for applications in Security, Instrumentation and Modems.

	Dimensions - Inches (mm)			
Series	L	W	H	C
9001/ 9007	.760 (19.30)	.200 (5.08)	.300 (7.62)	.200 (5.08)
9002	.760 (19.30)	.200 (5.08)	.300 (7.62)	.100 (2.54)
9091/ 9094	.600 (15.24)	.150 (3.81)	.275 (6.98)	.150 (3.81)
9081	.890 (22.61)	.275 (6.99)	.315 (8.0)	.200 (5.08)

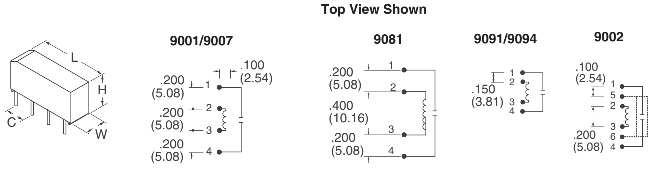

Fig. 7

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9081C are 2 x SPST-C/O relays offered in industry standard packages. Use 9081C (.2 x .4 x .2) SIP for industry standard footprint applications or 9081C1 (.2 x .2 x .2 x .2) for standard footprint applications requiring a SPDT function. These relays are well-suited for applications in Security, Instrumentation and Modems.

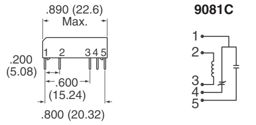

Fig. 8

The 9012 package dimensions are 47% smaller than standard 9000 SIPs, yet the relay retains the 10W switch ratings of its larger counterparts. The 9011 package dimensions are 65% smaller than the standard 9000 SIPs and incorporates the RI-70 switch rated 3W. The 9117 goes one step further, reducing package size by 65% from standard 9000 SIP's. This is the smallest SIP footprint with a 3W rating. These miniature SIP relays are ideal for use in ATE applications and other high reliability test, measurements and telecommunications applications where high board density and long life are key requirements.

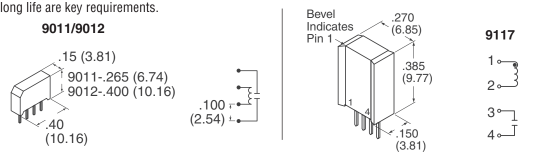

Fig. 9

The 9092 model, because of its increased height, allows for incorporation of 2 form A switches in the same board space. These miniature SIP relays utilize Coto's 10W switch technology, making these SIP relays ideal for use in ATE applications and other high reliability test, measurement and telecommunications applications where high board density and long life are key requirements.

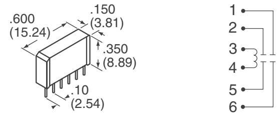

Fig. 10

The 9104 Series adds high voltage switching 1000V capability and high voltage standoff capability to a SIP relay package. These high voltage, high performance relays are ideally suited for Automatic Test Equipment, Instrumentation, and Process Control applications where voltage isolation is a key design requirement.

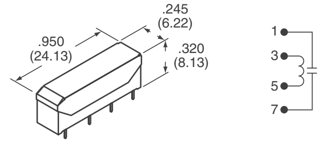

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
7	SPDT-C/O	12	24	0.4	1.0	With EMI Shield	306-1178-ND	8.97	7.77	6.56	5.70	9081C-12-10
	SPDT-C/O	24	12	0.4	1.0	Standard Version	306-1179-ND	8.40	7.27	6.14	5.33	9081C-24-00
	SPDT-C/O	24	12	0.4	1.0	With EMI Shield	306-1180-ND	9.07	7.86	6.64	5.76	9081C-24-10
8	SPST	5	10	0.25	0.5	With EMI Shield	306-1130-ND	7.70	6.52	5.46	4.39	9011-05-10
	SPST	5	10	0.25	0.5	With EMI Shield and Diode	306-1131-ND	7.96	6.74	5.64	4.54	9011-05-11
	SPST	12	16	0.25	0.5	With EMI Shield	306-1132-ND	8.06	6.82	5.71	4.59	9011-12-10
	SPST	12	16	0.25	0.5	With EMI Shield and Diode	306-1133-ND	6.66	5.76	4.87	4.23	9011-12-11
	SPST	5	10	0.5	1.5	With EMI Shield	306-1134-ND	6.27	5.31	4.44	3.58	9012-05-10
	SPST	5	10	0.5	1.5	With EMI Shield and Diode	306-1135-ND	6.53	5.53	4.63	3.72	9012-05-11
	SPST	12	16	0.5	1.5	With EMI Shield	306-1136-ND	6.60	5.59	4.67	3.76	9012-12-10
	SPST	12	16	0.5	1.5	With EMI Shield and Diode	306-1137-ND	6.86	5.81	4.86	3.91	9012-12-11
	SPST	5	12	0.25	0.5	With EMI Shield	306-1181-ND	11.13	9.63	8.14	7.07	9117-05-10
	SPST	5	12	0.25	0.5	With EMI Shield and Diode	306-1182-ND	11.28	9.77	8.25	7.17	9117-05-11
9	DPST	5	13.3	0.5	1.2	With EMI Shield	306-1183-ND	10.82	9.36	7.91	6.87	9092-05-10
	DPST	5	13.3	0.5	1.2	With EMI Shield and Diode	306-1185-ND	10.97	9.50	8.02	6.97	9092-05-11
	DPST	12	16	0.5	1.2	With EMI Shield	306-1184-ND	10.87	9.41	7.95	6.90	9092-12-10
	DPST	12	16	0.5	1.2	With EMI Shield and Diode	306-1186-ND	11.00	9.52	8.04	6.98	9092-12-11
10	SPST	5	28.5	0.5	1.3	With EMI Shield	306-1193-ND	10.82	9.36	7.91	6.87	9104-05-10
	SPST	5	28.5	0.5	1.3	With EMI Shield and Diode	306-1194-ND	10.97	9.50	8.02	6.97	9104-05-11
	SPST	12	24	0.5	1.3	With EMI Shield	306-1195-ND	10.87	9.41	7.95	6.90	9104-12-10
	SPST	12	24	0.5	1.3	With EMI Shield and Diode	306-1196-ND	11.00	9.52	8.04	6.98	9104-12-11

cynergy3 components

High Voltage Reed Relays

Very high isolation voltage is achieved through the use of high vacuum reed switches with Tungsten contacts that makes these relays well suited for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies.

Dimensions in Inches (mm)

Fig.	Circuit	Coil Voltage (VDC)	Isolation Voltage (kV)	Switching Power (W)	Switching Voltage (kV)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Cynergy3 Part No.
						10kV ~ 15kV Relays						
1A	SPST-NO	5	10	50	7	PCB only	725-1027-ND	26.11	24.86	23.61	22.97	DAT70510
1B	SPST-NO	5	10	50	7	Flying Leads	725-1028-ND	32.03	30.50	28.97	28.20	DAT70510F
1A	SPST-NO	5	15	50	10	PCB only	725-1029-ND	38.02	36.20	34.38	33.46	DAT70515
1A	SPST-NO	12	10	50	7	PCB only	725-1030-ND	26.11	24.86	23.61	22.97	DAT71210
1B	SPST-NO	12	10	50	7	Flying Leads	725-1031-ND	32.03	30.50	28.97	28.20	DAT71210F
1A	SPST-NO	12	10	50	7	.250" QC Terminal	725-1054-ND	32.03	30.50	28.97	28.20	DAT71210S
1A	SPST-NO	12	15	50	10	PCB only	725-1032-ND	38.02	36.20	34.38	33.46	DAT71215
1B	SPST-NO	12	15	50	10	Flying Leads	725-1033-ND	43.96	41.85	39.74	38.68	DAT71215F
1A	SPST-NO	24	10	50	7	PCB only	725-1034-ND	26.11	24.86	23.61	22.97	DAT72410
1B	SPST-NO	24	10	50	7	Flying Leads	725-1035-ND	32.03	30.50	28.97	28.20	DAT72410F
1A	SPST-NO	24	10	50	7	.250" QC Terminal	725-1055-ND	32.03	30.50	28.97	28.20	DAT72410S
1A	SPST-NO	24	15	50	10	PCB only	725-1036-ND	38.02	36.20	34.38	33.46	DAT72415
1B	SPST-NO	24	15	50	10	Flying Leads	725-1037-ND	43.96	41.85	39.74	38.68	DAT72415F
						10kV Relays						
1A	SPST-NC	5	10	50	7	PCB only	725-1038-ND	31.56	30.04	28.54	27.77	DBT70510
1B	SPST-NC	5	10	50	7	Flying Leads	725-1039-ND	37.50	35.71	33.91	33.01	DBT70510F
1A	SPST-NC	12	10	50	7	PCB only	725-1040-ND	31.56	30.04	28.54	27.77	DBT71210
1B	SPST-NC	12	10	50	7	Flying Leads	725-1041-ND	37.50	35.71	33.91	33.01	DBT71210F
1A	SPST-NC	12	10	50	7	.250" QC Terminal	725-1056-ND	37.50	35.71	33.91	33.01	DBT71210S
1A	SPST-NO	12	10	50	10	PCB only	725-1047-ND	24.16	23.00	21.84	21.25	DAR71210
1A	SPST-NC	12	10	50	10	PCB only	725-1049-ND	29.65	28.23	26.81	26.09	DBR71210
1A	SPST-NC	24	10	50	7	PCB only	725-1042-ND	31.56	30.04	28.54	27.77	DBT72410
1B	SPST-NC	24	10	50	7	Flying Leads	725-1043-ND	37.50	35.71	33.91	33.01	DBT72410F
1A	SPST-NC	24	10	50	7	.250" QC Terminal	725-1057-ND	37.50	35.71	33.91	33.01	DBT72410S
1A	SPST-NO	24	10	50	10	PCB only	725-1048-ND	24.16	23.00	21.84	21.25	DAR72410
1A	SPST-NC	24	10	50	10	PCB only	725-1050-ND	29.65	28.23	26.81	26.09	DBR72410
						3kV Miniature Relays						
2	SPST-NO	5	3	10	.02	Miniature Package	725-1044-ND	18.21	17.33	16.46	16.02	SAR90503
2	SPST-NO	12	3	10	.02	Miniature Package	725-1045-ND	18.21	17.33	16.46	16.02	SAR91203
2	SPST-NO	24	3	10	.02	Miniature Package	725-1046-ND	18.21	17.33	16.46	16.02	SAR92403
						5kV Miniature Relays						
2	SPST-NO	5	5	10	.02	Miniature Package	725-1051-ND†	20.14	19.18	18.20	17.71	SAR90505
2	SPST-NO	12	5	10	.02	Miniature Package	725-1052-ND†	20.14	19.18	18.20	17.71	SAR91205
2	SPST-NO	24	5	10	.02	Miniature Package	725-1053-ND†	20.14	19.18	18.20	17.71	SAR92405

† DC only. Pin 3 +HV

Fig. 1

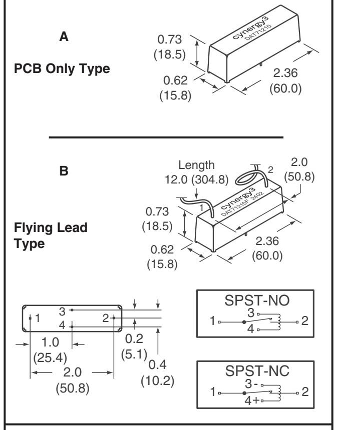

Fig. 2

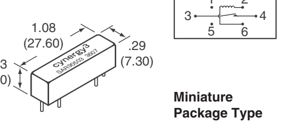

Reed Relays

Fig. 1 — HE700 Series

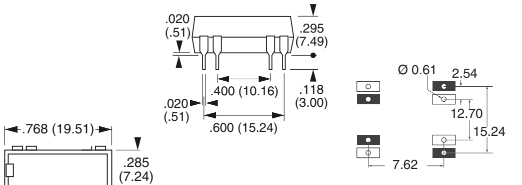

- Transfer Molded Body

PCB Layout
HE700 Series — Use all holes
HE751 Series — Doesn't include shaded pins

Fig. 2 — HE200 Series

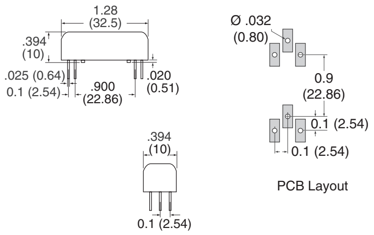

Fig. 3 — HE400 Series

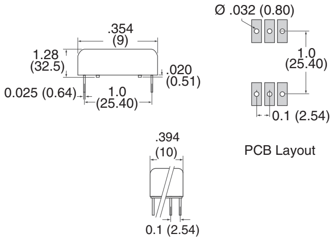

Fig. 4 — HE3300 Series

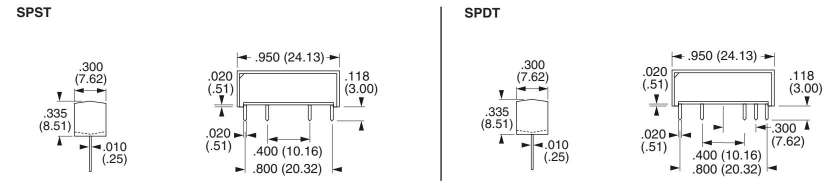

Standard Sip

Fig. 5 — HE3600 Series

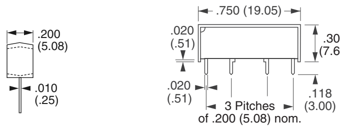

Miniature Sip

Top View	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/Dropout (VDC@ 25°C)	Switch Volt. (VDC)	Switch Current (Amps)	Carry Current (Amps)	Cont. Res. (Ω)	Oper./Rel. Time (msec)	Ins. Res. (Ω)	Features	Digi-Key Part No.	Price Each				Hamlin Part No.
												1	10	50	100	
Fig. 1 — 700 Series DIP Reed Relays																
1A SPST-NO 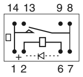	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE100-ND	1.50	1.27	1.06	.87	HE721A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE101-ND	1.63	1.38	1.15	.94	HE721A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE102-ND	1.53	1.30	1.09	.89	HE721A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE103-ND	1.69	1.43	1.20	.98	HE721A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE104-ND	1.69	1.43	1.20	.98	HE721A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE105-ND	1.82	1.54	1.29	1.05	HE721A2410
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	Low Profile	HE138-ND	2.54	2.15	1.80	1.47	HE721A1215
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	Low Profile	HE139-ND	2.54	2.15	1.80	1.47	HE721A2415
2A DPST-NO 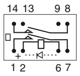	5	200	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE554-ND	2.89	2.45	2.05	1.67	HE722A0500
	5	200	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE123-ND	3.06	2.59	2.17	1.77	HE722A0510
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE106-ND	2.89	2.45	2.05	1.67	HE722A0600
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE107-ND	3.06	2.59	2.17	1.77	HE722A0610
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE108-ND	2.96	2.51	2.10	1.71	HE722A1200
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE109-ND	3.09	2.62	2.19	1.79	HE722A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE110-ND	3.09	2.62	2.19	1.79	HE722A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE111-ND	3.25	2.75	2.30	1.88	HE722A2410
1C SPDT-CO 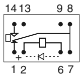	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	109	—	HE112-ND	3.67	3.11	2.60	2.12	HE721C0500
	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	109	w/Diode	HE113-ND	3.80	3.22	2.70	2.20	HE721C0510
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	109	—	HE114-ND	3.74	3.17	2.65	2.16	HE721C1200
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	109	w/Diode	HE115-ND	3.87	3.28	2.74	2.24	HE721C1210
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	109	—	HE116-ND	3.87	3.28	2.74	2.24	HE721C2400
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	109	w/Diode	HE117-ND	4.00	3.39	2.83	2.31	HE721C2410
1A SPST-NO 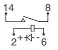	5	500	3.75/0.5	300	0.5	1.2	0.150	1.0/1.0	1010	High Volt.	HE124-ND	2.15	1.82	1.52	1.24	HE751A0510
	12	1000	8.0/1.0	300	0.5	1.2	0.150	1.0/1.0	1010	High Volt.	HE125-ND	2.21	1.87	1.57	1.28	HE751A1210
	24	2150	16.0/2.0	300	0.5	1.2	0.150	1.0/1.0	1010	High Volt.	HE126-ND	2.34	1.98	1.66	1.35	HE751A2410
Fig. 2 — 200 Series DIP Reed Relays																
1A SPST-NO 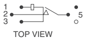	24	3285	16.8/1.4	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE120-ND	4.10	3.47	2.90	2.37	HE221A2450
Fig. 3 — 400 Series DIP Reed Relays																
1A SPST-NO 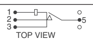	24	3840	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE122-ND	4.10	3.47	2.90	2.37	HE421A2450
Fig. 4 — 3300 Series SIP Reed Relays																
1A SPST-NO 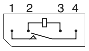	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE200-ND	1.69	1.43	1.20	.98	HE3321A0400
	12	500	9.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE201-ND	1.79	1.52	1.27	1.04	HE3321A1200
	24	2000	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE202-ND	2.05	1.74	1.45	1.19	HE3321A2400
	5	125	3.75/0.5	250	1.0	1.5	0.150	1.0/1.0	1010	High Volt.	HE127-ND	2.37	2.01	1.68	1.37	HE3351A0500
	12	500	9.0/1.0	250	1.0	1.5	0.150	1.0/1.0	1010	High Volt.	HE128-ND	2.50	2.12	1.78	1.45	HE3351A1200
	24	2000	18.0/2.0	250	1.0	1.5	0.150	1.0/1.0	1010	High Volt.	HE129-ND	2.73	2.31	1.94	1.58	HE3351A2400
1C SPDT-CO 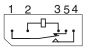	5	125	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	109	—	HE203-ND	3.87	3.28	2.74	2.24	HE3321C0500
	12	500	9.0/1.0	175	0.25	1.5	0.200	3.0/3.0	109	—	HE204-ND	4.00	3.39	2.83	2.31	HE3321C1200
	24	2000	18.0/2.0	175	0.25	1.5	0.200	3.0/3.0	109	—	HE205-ND	4.23	3.58	2.99	2.44	HE3321C2400
Fig. 5 — 3600 Series Ultra Miniature Reed Relays																
1A SPST-NO 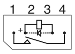	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE206-ND	1.50	1.27	1.06	.87	HE3621A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE207-ND	1.56	1.32	1.11	.90	HE3621A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE208-ND	1.59	1.35	1.13	.92	HE3621A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE209-ND	1.72	1.46	1.22	1.00	HE3621A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	—	HE210-ND	1.59	1.35	1.13	.92	HE3621A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	1010	w/Diode	HE211-ND	1.76	1.49	1.25	1.02	HE3621A2410

USRELAYS & TECHNOLOGY

Reed Relays

Dimensions in Inches (mm)

Fig. 1 — Dip Reed Relays

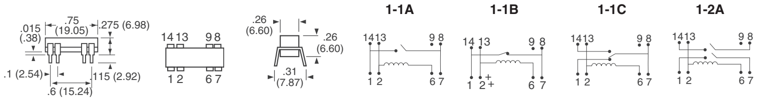

Fig. 2 — Series 10 Reed Relays

2-1A

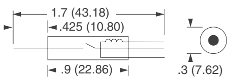

Fig. 3 — Series 30 Sip Reed Relays

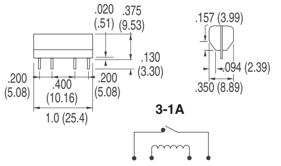

Fig. 4 — Open-Line Reed Relays

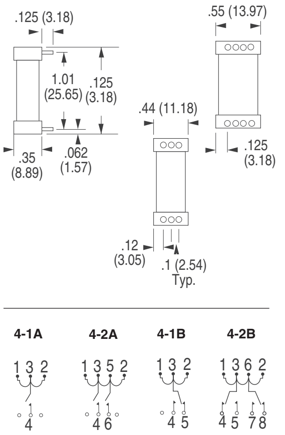

Fig. Form	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC)	Max. Volt. (VDC)	Cur. Rtg. (A)	Cont. Res. (Ω)	Oper./ Release /-Bounce Time (msec.)	Power Rtg. (W)	Ins. Res. (Ω)	Digi-Key Part No.	Price Each 1	10	50	100	US Relays Part No.
Dip Reed Relays															
1-1A	5	500	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z660-ND	4.29	3.63	3.04	2.48	D1A05A
	12	1000	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z661-ND	4.29	3.63	3.04	2.48	D1A12A
	24	2200	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z612-ND	4.42	3.74	3.13	2.55	D1A24A
1-2A	5	150	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z662-ND	6.34	5.37	4.49	3.66	D2A05A
	24	1750	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z615-ND	6.66	5.64	4.72	3.85	D2A24A
1-1B	5	450	4.0/0.5	100	.50	.20	.35/.5/.5	10	10^{10}	Z616-ND	6.34	5.37	4.49	3.66	D1B05A
	12	450	9.6/1.2	100	.50	.20	.35/.5/.5	10	10^{10}	Z617-ND	6.66	5.64	4.72	3.85	D1B12A
1-1C	5	200	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z663-ND	7.74	6.55	5.48	4.47	D1C05C
	12	500	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z664-ND	7.74	6.55	5.48	4.47	D1C12C
	24	1750	19.2/2.4	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z621-ND	7.87	6.66	5.57	4.54	D1C24C
Series 10 Reed Relays															
2-1A	3	250	2.25/0.3	200	.5	.10	.5/.25/—	5	10^{10}	Z622-ND	6.11	5.17	4.33	3.53	R1A3AHH
	5	700	3.75/0.5	200	.5	.10	.5/.25/—	5	10^{10}	Z623-ND	6.34	5.37	4.49	3.66	R1A5AHH
	12	2000	9.0/1.2	200	.5	.10	.5/.25/—	5	10^{10}	Z624-ND	7.31	6.19	5.18	4.22	R1A12AHH
	24	4000	18.0/2.4	200	.5	.10	.5/.25/—	5	10^{10}	Z625-ND	10.08	8.53	7.13	5.82	R1A24AHH
	5	100	3.75/0.5	300	2	.10	.5/.25/—	50	10^{10}	Z627-ND	5.20	4.40	3.68	3.00	P1A5A
	12	500	9.0/1.2	300	2	.10	.5/.25/—	50	10^{10}	Z628-ND	5.46	4.62	3.87	3.15	P1A12A
Series 30 Sip Reed Relays															
3-1A	5	500	3.8/0.5	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z530-ND	4.29	3.63	3.04	2.48	SD1A05A
	24	2000	16.0/2.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z532-ND	4.42	3.74	3.13	2.55	SD1A24A
	5	500	3.8/0.5	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z533-ND	4.88	4.13	3.45	2.82	SD1A05D
Open-Line Reed Relays															
4-1A	5	500	3.8/0.5	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z638-ND	9.26	7.84	6.56	5.35	20-1051-10
4-2A	12	440	8.0/1.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z642-ND	10.89	9.22	7.71	6.29	20-2121-10
4-1B	5	500	3.8/0.5	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z644-ND	10.01	8.67	7.44	6.36	20-1051-30
4-2B	5	200	3.8/0.5	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z647-ND	13.26	11.48	9.85	8.42	20-2051-30
	24	1250	16.0/2.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z649-ND	13.91	12.04	10.33	8.83	20-2241-30

Surface Mount Reed Relays

Dimensions in Inches (mm)

Fig. 1

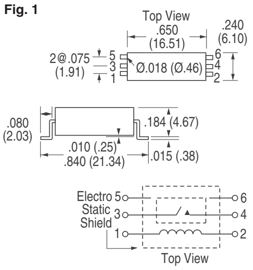

Fig. 2

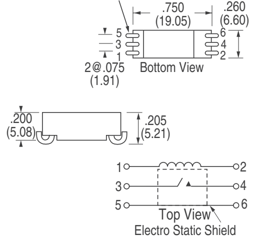

Fig. 3

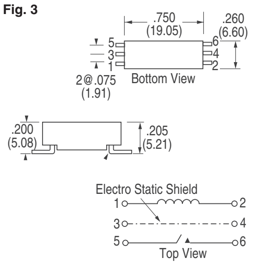

Fig. 4

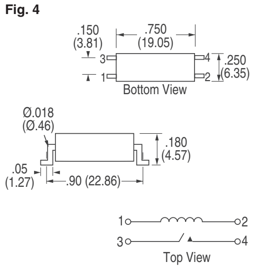

Fig. 5

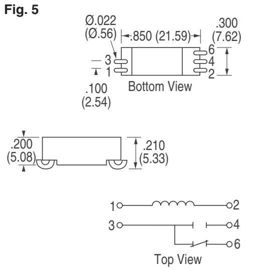

Fig.	Coil Voltage (VDC)	Coil Resistance (Ω)	Pickup/ Dropout (VDC)	Maximum Voltage (VDC)	Current Rating mA	Cont. Resistance (Ω)	Operate Time (msec.)	Ins. Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	US Relays Part No.
1	4.5	150	3.5/0.5	250	500	.1	.35	7×10^{12}	Z650-ND	11.96	10.35	8.88	SMRR1-5-150C
2	5	150	3.75/0.4	200	500	.150	.35	7×10^{12}	Z651-ND	12.74	11.03	9.46	SMRR2-5-150C
3	5	150	3.8/0.5	250	500	.150	.35	7×10^{12}	Z653-ND	13.52	11.70	10.04	SMRR2-5-150F
4	5	250	3.75/0.4	200	500	.150	.35	7×10^{12}	Z654-ND	11.05	9.35	7.82	SMRR2-5-250
5	5	150	3.8/0.5	28	250	.2	.5	7×10^{12}	Z655-ND	12.43	10.76	9.23	SMRR3-5-150

COTO TECHNOLOGY

Dim. in Inches (mm)

RF Relays

B10 Relays: Coto's Ball Grid Array (BGA) construction offers a breakthrough in reed relay performance. This patented technology allows for shorter RF paths in a controlled 50Ω environment to minimize signal attenuation. The designer is now able to switch or pass signals with wider bandwidth and faster rise time than alternative technologies.

B40 Series: The B40 is four independent form A channels in one quad package. This 4-in-one BGA packaging allows relays to be integrated easily on boards designed for surface mount processing.

Applications: • IC Testers • In-Line Relay Testers • Memory Testers • Mixed Signal Testers • High Bandpass Applications

Fig. 1 — B10 Series

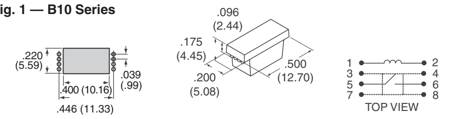

Fig. 2 — B40 Series

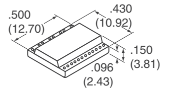

Fig. 3 — B41 Series *NEW!*

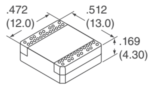

Fig.	Circuit	Coil Volt. (DC)	Coil Res. (Ω)	Switching Current (Amps)	Carry Current (Amps)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	Coto Part No.
B10 Series, "In-Board Mount"											
1	SPST	3.3	55.0	0.25	0.5	50Ω BGA Surface Mount	306-1152-1-ND† 306-1152-2-ND‡	29.93	25.33 1740.69/90	21.19	B10-03B B10-03B
	SPST	5.0	150.0	0.25	0.5	50Ω BGA Surface Mount	306-1153-5-ND	19.34	17.04	14.74	B10-05B
B40 Series, 4 Channel, "In-Board Mount"											
2	4PST	3.3	55.0	0.25	0.5	50Ω GHZ - Low Capacitance	306-1154-ND	186.90	164.65	142.40	B40-0002B
	4PST	5.0	166.0	0.25	0.5	50Ω GHZ - Low Capacitance	306-1155-ND	186.90	164.65	142.40	B40-0003B
NEW! B41 Series, 4 Channel NEW!											
3	4PST	5.0	160.0	0.25	0.5	50Ω GHZ Quad Channel	306-1173-ND	189.00	166.50	144.00	B41-0001
	4PST	3.3	55.0	0.25	0.5	50Ω GHZ Quad Channel	306-1174-1-ND† 306-1174-2-ND‡	262.50	225.00 2343.75/25	—	B41-0002 B41-0002

† Cut Tape ‡ Tape and Reel

HAMLIN

Magnetic Reed Switches

Reed Switches consists of two ferromagnetic reeds that when introduced to a magnetic field, attract toward each other to close. Once the magnetic field is removed, the contacts again spring open. Reed switches are ideal in auto, marine and moist environments including water, fuels, and dust-laden atmospheres. The smaller Ampere Turns number, the more sensitive the reed switch to magnetic fields.

Fig. 1 - Axial Lead

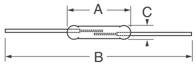

Fig. 2 - Axial Lead

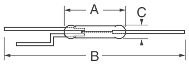

Fig. 3 - SMT

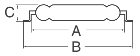

Fig. 4 - SMT Epoxy Body

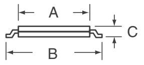

Fig.	Circuit	Ampere Turns	Maximum DC Contact Rating		Switching Current (A)	Carry Current (A)	Operate/ Release (ms)	Dimensions (mm)			Digi-Key Part No.	Price Each			Hamlin Part No.
			Watts	Volts				A	B	C		1	10	50	
							Axial Lead Reed Switches								
1	SPST	6 ~ 12	10	170	0.5	0.5	.45/.2	7.00	46.00	1.80	HE516-ND	1.37	1.16	.97	MITI-3V1 6-12.5
	SPST	10 ~ 15	10	200	0.5	1.0	.5/.1	10.16	40.38	1.80	HE560-ND ***NEW!***	.75	.64	.53	MDSR-10 AW 10-15
	SPST	15 ~ 20	10	200	0.5	1.0	.5/.1	10.16	40.38	1.80	HE561-ND ***NEW!***	.75	.64	.53	MDSR-10 AW 15-20
	SPST	20 ~ 25	10	200	0.5	1.0	.5/.1	10.16	40.38	1.80	HE562-ND ***NEW!***	.75	.64	.53	MDSR-10 AW 20-25
	SPST	10 ~ 20	10	200	0.5	0.8	.6/.2	12.70	40.39	1.83	HE500-ND	.81	.69	.58	MDSR-7 10-20
	SPST	20 ~ 25	10	200	0.5	0.8	.6/.2	12.70	40.39	1.80	HE535-ND	.81	.69	.58	MDSR-7 20-25
	SPST	10 ~ 15	10	200	0.5	1.0	.55/.2	14.00	44.30	2.28	HE555-ND ***NEW!***	.52	.44	.37	FLEX-14 10-15
	SPST	15 ~ 20	10	200	0.5	1.0	.55/.2	14.00	44.30	2.28	HE556-ND ***NEW!***	.52	.44	.37	FLEX-14 15-20
	SPST	20 ~ 25	10	200	0.5	1.0	.55/.2	14.00	44.30	2.28	HE557-ND ***NEW!***	.52	.44	.37	FLEX-14 20-25
	SPST	17 ~ 23	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE133-ND	.81	.69	.58	MLRR-3 17-23
	SPST	22 ~ 28	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE538-ND	.81	.69	.58	MLRR-3 22-28
	SPST	32 ~ 38	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE539-ND	.81	.69	.58	MLRR-3 32-38
	SPST	17 ~ 23	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE540-ND	.85	.72	.60	MLRR-4 17-23
	SPST	22 ~ 28	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE541-ND	.85	.72	.60	MLRR-4 22-28
	SPST	12 ~ 23	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE502-ND	.72	.61	.51	MDSR-4 12-23
	SPST	27 ~ 33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE533-ND	.72	.61	.51	MDSR-4 27-33
	SPST	32 ~ 38	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE534-ND	.72	.61	.51	MDSR-4 32-38
	SPST	12 ~ 33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE503-ND	.72	.61	.51	MDCG-4 12-33
	SPST	17 ~ 23	10	1000	0.5	1.3	.75/.3	19.05	56.77	2.66	HE544-ND	2.34	1.98	1.66	MARR-5 17-23
	SPST	22 ~ 33	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE504-ND	2.34	1.98	1.66	MARR-5 22-33
	SPST	32 ~ 38	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE529-ND	2.34	1.98	1.66	MARR-5 32-38
	SPST	27 ~ 33	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE546-ND	1.04	.88	.74	MRPR-3 27-33
	SPST	32 ~ 38	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE547-ND	1.04	.88	.74	MRPR-3 32-38
	SPST	17 ~ 23	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE543-ND	1.30	1.10	.92	MRPR-8 17-23
	SPST	22 ~ 38	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE505-ND	1.30	1.10	.92	MRPR-8 22-38
	SPST	17 ~ 23	10	200	0.3	1.4	.6/.2	15.24	40.38	2.28	HE558-ND ***NEW!***	.72	.61	.51	HA-15-2 17-23
	SPST	22 ~ 28	10	200	0.35	1.5	.6/.2	15.24	40.38	2.28	HE559-ND ***NEW!***	.72	.61	.51	HA-15-2 22-28
	SPST	42 ~ 48	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE517-ND	3.38	2.86	2.40	DRR-129 42-48
	SPST	47 ~ 68	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE509-ND	3.38	2.86	2.40	DRR-129 47-68
	SPST	67 ~ 73	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE518-ND	3.38	2.86	2.40	DRR-129 67-73
	SPST	87 ~ 93	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE520-ND	3.38	2.86	2.40	DRR-129 87-93
2	SPDT	15 ~ 25	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE506-ND	2.96	2.51	2.10	MDRR-DT 15-25 F
	SPDT	30 ~ 35	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE532-ND	2.93	2.48	2.07	MDRR-DT 30-35 U
	SPDT	70 ~ 75	50	500	1.5	2.0	5.5/8	38.10	85.73	5.33	HE525-ND	15.63	13.23	11.07	DRT-DTH 70-75
	SPDT	75 ~ 80	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE134-ND	11.41	9.66	8.08	DRR-DTH 75-80
	SPDT	45 ~ 50	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE522-ND	11.41	9.66	8.08	DRR-DTH 45-50
	SPDT	85 ~ 90	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE524-ND	11.41	9.66	8.08	DRR-DTH 85-90
	SPDT	50 ~ 65	50	500	1.5	2.0	5.5/8	39.37	85.73	5.33	HE508-ND	15.63	13.23	11.07	DRT-DTH 50-65

Fig.	Circuit	Operate Time (ms)	Release Time (ms)	Switching Volt. (max.)	Switching Current (A)	Carry Current (A)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Hamlin Part No.
							A	B	C		1	10	50		Qty.	Pricing	
								SMT Reed Switches									
3	SPST	0.5	0.1	200VDC	0.5	1.0	12.45	15.62	2.00	HE564CT-ND ***NEW!***	.88	.75	.63	HE564TR-ND ***NEW!***	3,000	337.50/M	MDSM-10R 20-25 AT
	SPST	0.6	0.2	200VDC	0.5	1.2	17.52	19.30	2.84	HE151CT-ND	.84	.72	.60	HE151TR-ND	3,000	294.00/M	MDSM-4R 12-18
	SPDT	0.7	1.0	175VDC	0.25	1.5	20.32	25.40	2.87	HE563CT-ND ***NEW!***	2.37	2.01	1.68	HE563TR-ND ***NEW!***	2,500	912.50/M	MDSM-DTR 20-25AT
4	SPST	0.6	0.2	200VDC	0.5	0.8	11.43	16.25	1.52	HE549CT-ND	1.44	1.23	1.03	HE549TR-ND	1,500	533.00/M	59170-1-S-00-D
	SPST	1.0	0.5	200VDC	0.5	0.8	11.43	16.25	1.52	HE551CT-ND	1.44	1.23	1.03	HE551TR-ND	2,000	533.00/M	59170-1-T-00-D
	SPST	1.0	0.5	200VDC	0.5	0.8	11.43	16.25	1.52	HE553CT-ND	1.44	1.23	1.03	HE553TR-ND	2,000	533.00/M	59710-1-U-00-D

Magnets

A permanent magnet is the most common source for operating the magnetic reed switch. The method used to position the magnet depends upon the switching requirement but can be used in one of four basic techniques; perpendicular or parallel motion (up and down, side to side) rotation (revolving magnet or switch), shielding (passing a ferromagnetic material between the switch and magnet) or biasing which is using one magnet of opposite polarity to cancel another magnet's lines of force.

Fig. 1 - Square

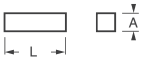

Fig. 2 - Round

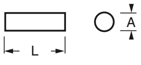

Fig. 3 - Button

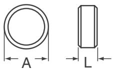

Fig.	Dimension (mm) A x L	Use with A.T.Range	Gauss Strength	Digi-Key Part No.	Price Each			Hamlin Part No.
					1	10	50	
1	1.57 Sq. x 12.70	10-38	45	HE510-ND	1.20	1.02	.86	H-31
	4.83 Sq. x 25.40	10-38	200	HE511-ND	2.99	2.53	2.12	H-32
	3.2 Sq. x 19.1	10-38	135	HE512-ND	1.63	1.38	1.15	H-33
	6.35 Sq. x 25.4	10-68	260	HE513-ND	3.41	2.89	2.42	H-34
2	3.05 Dia. x 14.99	10-38	120	HE155-ND	1.85	1.57	1.32	315
	3.81 Dia. x 19.81	10-38	175	HE514-ND	1.59	1.35	1.13	420
	6.00 Dia. x 25.00	10-68	235	HE515-ND	4.52	3.83	3.20	625
3	12.70 Dia. x 5.08	10-38	800	HE153-ND	1.17	.99	.83	CM-1

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CHERRY Magnetic Reed Position Sensors

Features: • Operating Temperature: -40°C ~ 105°C • Leads: 24 AWG PVC, Pre-tinned, 12" long

Fig. 1

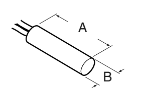

Fig. 2

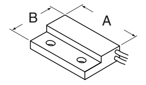

Fig. 3

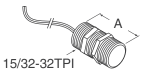

Fig. 4

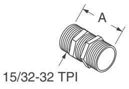

Fig.	Description	Dimension (Inch)		Digi-Key Part No.	Price Each			Cherry Part No.
		A	B		1	10	50	
1	Magnetic Position Sensor, 10W, SPST-NO, .5A	1.00	ø.243	CH402-ND	3.62	3.22	2.68	MP201701
	Magnetic Position Sensor, 3W, SPST-NC, .2A	1.00	ø.243	CH403-ND	5.99	5.33	4.44	MP201702
	Smooth Barrel Actuator	1.00	ø.243	CH411-ND	3.40	3.03	2.52	AS201701
2	Mini Flange Mount Proximity Sensors,10W, SPST-NO, .5A	.906	.550	CH405-ND	3.94	3.51	2.92	MP201801
	Mini Flange Mount Proximity Sensors, 3W, SPST-NC, .2A	.906	.550	CH406-ND	6.05	5.38	4.48	MP201802
	Mini Flange Mount Actuator	.906	.550	CH412-ND	3.54	3.15	2.62	AS201801
	Flange Mount Proximity Sensors, 10W, SPST-NO, .5A	1.125	.750	CH407-ND†	4.08	3.63	3.02	MP201901
	Flange Mount Proximity Sensors, 3W, SPDT-CO, .2A	1.125	.750	CH409-ND†	6.75	6.00	5.00	MP201903
	Flange Mount Actuator	1.125	.750	CH413-ND	3.83	3.41	2.84	AS201901
3	Magnetic Position Sensor Aluminum 10W, SPST-NO, .5A	1.00	—	CH410-ND	11.50	10.23	8.52	MP200701
4	Threaded Actuator, South pole magnet	1.00	—	CH397-ND	14.45	12.84	10.70	HE610400

† Wire leads extend from opposite side of switch

measurement SPECIALTIES Magnetic Sensors

KMY/KMZ Sensors: Due to its featured properties - high sensitivity and almost no hysteresis - the KMY/KMZ sensors are used in a wide range of applications, like magnetic field measurement, revolution counters, proximity detecting, and position measurement. **MS32 Switching Sensors:** The MS32 is a magnetic field sensor which is built in the form of a Wheatstone bridge. Applications: Contactless Position (Presence, Open/Close) Detection in : • Industrial • Consumer • Automotive. **KMT32B/KMT36H Magnetic Angle Sensors:** The KMT32B/KMT36H are magnetic field sensors based on the anisotropic magnetoresistance effect, i.e. it is sensing the magnetic field direction independently of the magnetic field strength. **MLS Sensors:** Sliding the MLS-Sensors along a magnetic scale will produce a sine and a cosine output signal as a function of the position. The sensor detects a magnetic gradient field and is thus almost insensitive to homogenous stray fields.

Dimensions in mm

Fig. 1

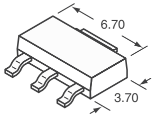

Fig. 2

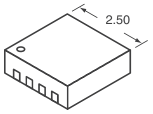

Fig. 3

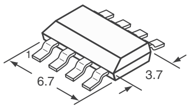

Fig. 4

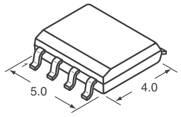

Fig. 5

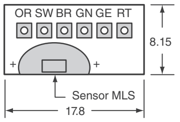

Fig. 6

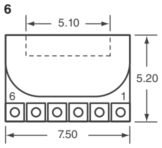

Fig.	Supply Voltage (V)	Output Voltage (mV)	Magnet	Angle of Measurement	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Measurement Specialties Part No.
						1	25	100		Qty	Pricing	
1	5	±10	Yes	—	356-1077-1-ND	9.59	4.85	2.99	—	—	—	KMY20M
	5	±10	No	—	356-1078-1-ND	9.39	4.73	2.79	—	—	—	KMY20S
	5	±5	Yes	—	356-1079-1-ND	9.09	4.62	2.49	—	—	—	KMY21M
2	5	-5/+6	—	—	356-1080-1-ND	8.80	4.20	2.20	—	—	—	MS32G
	5	20	—	180°	356-1083-1-ND	9.53	5.65	3.25	—	—	—	KMT32B-TD
	5	20	—	360°	356-1084-1-ND	9.68	5.75	3.75	356-1084-2-ND	3,000	2420.00/M	KMT36H-TD
3	5	20	—	180°	356-1081-1-ND	9.68	5.70	2.85	—	—	—	KMT32B-SM
4	5	20	—	180°	356-1082-5-ND	9.11	5.62	2.71	—	—	—	KMT32B-SO
5	5	20	—	—	356-1086-ND	13.20	11.89	11.15	—	—	—	MLS7 HS
6	5	20	—	—	356-1089-ND	16.87	15.19	14.24	—	—	—	MLS5000 HK

MEDER electronic Level Sensors with Magnetic Float

Compact sensors for detection of liquid levels such as oils, petroleum and fluids. LS01/02 series are for vertical tank mounting and LS03 is for horizontal mounting. Perfect for tank monitoring in household, automotive, control-test and measurement industries. Sensors are made of strong Polyimide material and include seals and mounting nut.
Specifications: • Switching Current: 0.5A • Switching Voltage: 200V, stripped and tinned leads.

Fig. 1

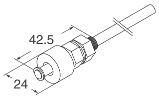

Fig. 2

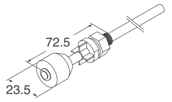

Fig. 3

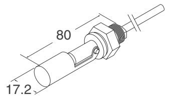

Fig.	Bushing	Operating Temperature	Termination or Wiring	Digi-Key Part No.	Price Each			Meder Part No.
					1	10	50	
1	M8x1.25	0°C ~ 70°C	500mm PVC Leads	374-1000-ND	17.42	15.55	12.60	LS01-1A71-PA-500W
	M8x1.25	-20°C ~ 90°C	500mm PVC Leads	374-1057-ND ***NEW!***	17.55	15.66	12.69	LS01-1B66-PA-500W
2	M10x1.0	-20°C ~ 100°C	500mm PVC Leads	374-1001-ND	17.42	15.55	12.60	LS02-1A71-PA-500W
3	M16x1.5	-20°C ~ 100°C	500mm PVC Leads	374-1002-ND	19.21	17.14	13.89	LS03-1A66-PA-500W

RADIAL MAGNET INC

Magnets

Made from Neodymium Iron Boron (NdFeB), rare earth magnets. These magnets are nickel plated. Neodymium Magnets are the most powerful permanent magnetic materials commercially available. Increasing the size of a magnet also increases magnetic strength.

Description	Gauss Strength	Digi-Key Part No.	Price Each			
			1	10	50	100
1" Diameter x 1/8" Thick	10,800	469-1000-ND	1.70	1.60	1.50	1.30
3/4" Diameter x 1/8" Thick	10,800	469-1001-ND	.89	.84	.79	.69
1/2" Diameter x 1/8" Thick	10,800	469-1002-ND	.51	.48	.45	.39
1/4" Diameter x 1./4" Thick	10,800	469-1003-ND	.30	.28	.27	.23

Description	Gauss Strength	Digi-Key Part No.	Price Each			
			1	10	50	100
1/4" Diameter x 1/8" Thick	10,800	469-1004-ND	.21	.20	.19	.17
1/4" Diameter x 1/16" Thick	10,800	469-1005-ND	.17	.16	.15	.13
1" x 2" x 1/8" Thick	10,800	469-1006-ND	5.10	4.80	4.50	3.90
1" x 2" x 1/4" Thick	10,800	469-1007-ND	7.65	7.20	6.75	5.85

HAMLIN

Magnetic Position Sensors

Specifications:

• **Switching Voltage:** SPST - N/O - 200VDC, SPST - HV - 300VDC, SPDT - 175VDC, SPST - N/C - 175VDC • **Contact Rating:** 10W maximum • **Switching Current:** .5A maximum • **Initial Contact Resistance:** 0.200Ω • **Typical Operate Time:** 1.00ms • **Shock without False Operation:** 100G's, 11ms, 1/2 sine wave • **Operate and Storage Temperature:** -40°C ~ 105°C

Fig. 1

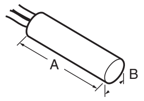

59021 - Aluminum Body

Fig. 2

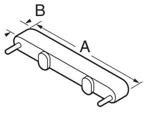

Fig. 3

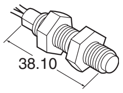

3A = 5/16 - 24 Thread
3B = M8 x 1.25 Thread

Fig. 4

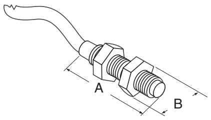

Fig. 5

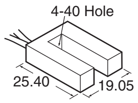

Fig. 6

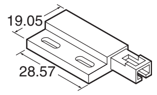

Mates with
WM2900 (connector),
WM2510 (contact)

Fig. 7

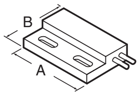

Fig. 8

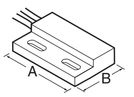

Fig. 9 (SMT)

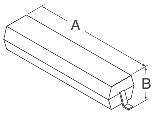

Gull-Lead

Fig.	Dimension (mm)		Must Operate/Release Distance (mm)	Termination or Wiring	Digi-Key Sensor Part No.	Price Each			Matching Magnet Part No.	Price Each		
	A	B				1	10	50		1	10	50
SPST-N/O												
1	9.00	3.00	6.0/—	12" PVC Leads	59010-1-S-02-F-ND	9.36	7.92	6.63	57020-000-ND	3.54	3.00	2.51
1	9.00	3.00	4.5/—	12" PVC Leads	59010-1-T-02-F-ND	9.36	7.92	6.63	57020-000-ND	3.54	3.00	2.51
1	16.4	5.10	2.54/7.62	12" PVC Leads	59020-010-ND	5.62	4.76	3.98	57020-000-ND	3.54	3.00	2.51
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-010-ND•	2.83	2.40	2.01	57025-000-ND•	2.57	2.18	1.82
2	17.78	4.32	1.90/13.97	PCB Pins	59045-010-ND	1.72	1.46	1.22	57045-000-ND	2.99	2.53	2.12
2	22.86	4.57	3.81/19.05	PCB pins	59050-010-ND•	1.24	1.05	.88	—	—	—	—
3A	—	—	3.81/20.32	12" PVC Leads	59065-010-ND•	3.67	3.11	2.60	57065-000-ND•	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-010-ND	3.67	3.11	2.60	57070-000-ND	2.99	2.53	2.12
4	46.0	M12	10.0/30.0	16' 4" HD Cable	59075-1-T-50-F-ND	18.69	15.82	13.23	57075-000-ND	29.65	24.80	20.22
4	46.0	M12	10.0/30.0	20" HD Cable	59075-1-U-03-A-ND	18.69	15.82	13.23	57075-000-ND	29.65	24.80	20.22
5	—	—	2.54/6.35	12" PVC Leads	59085-010-ND	8.94	7.57	6.33	—	—	—	—
6	—	—	3.81/20.32	Connector	59105-010-ND	4.29	3.63	3.04	57105-000-ND	2.67	2.26	1.89
7	28.57	19.05	3.81/20.32	Pins	59125-010-ND•	3.74	3.17	2.65	57125-000-ND•	2.67	2.26	1.89
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-010-ND	6.08	5.15	4.31	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-010-ND	2.86	2.42	2.03	57140-000-ND	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-010-ND•	3.06	2.59	2.17	57145-000-ND•	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-010-ND•	3.06	2.59	2.17	57150-000-ND•	2.67	2.26	1.89
9	16	2.51	7.5/ —	Gull Lead SMT	59165-1-S-00-C-ND	1.07	.91	.76	—	—	—	—
9	16	2.51	6.5/ —	Gull Lead SMT	59165-1-T-00-C-ND	1.07	.91	.76	—	—	—	—
9	16	2.51	5.0/ —	Gull Lead SMT	59165-1-U-00-C-ND	1.07	.91	.76	—	—	—	—
SPST-HV-N/O												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-020-ND	3.28	2.78	2.33	57025-000-ND	2.57	2.18	1.82
3A	—	—	3.81/20.32	12" PVC Leads	59065-020-ND	3.97	3.36	2.81	57065-000-ND	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-020-ND	3.97	3.36	2.81	57070-000-ND	2.99	2.53	2.12
6	—	—	3.81/20.32	Connector	59105-020-ND	4.91	4.16	3.48	57105-000-ND	2.67	2.26	1.89
7	28.57	19.05	3.81/20.32	Pins	59125-020-ND	4.29	3.63	3.04	57125-000-ND	2.67	2.26	1.89
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-020-ND	6.44	5.45	4.56	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-020-ND	3.48	2.95	2.47	57140-000-ND	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-020-ND	3.61	3.06	2.56	57145-000-ND	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-020-ND	3.61	3.06	2.56	57150-000-ND	2.67	2.26	1.89
SPDT-O/C												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-030-ND•	4.78	4.05	3.39	57025-000-ND•	2.57	2.18	1.82
3A	—	—	3.81/20.32	12" PVC Leads	59065-030-ND•	5.30	4.49	3.75	57065-000-ND•	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-030-ND	5.30	4.49	3.75	57070-000-ND	2.99	2.53	2.12
3B	46.0	M12	10.0/30.0	40" PVC Leads	59070-3T05-F-ND	5.46	4.62	3.87	57070-000-ND	2.99	2.53	2.12
5	—	—	2.54/6.35	12" PVC Leads	59085-030-ND	9.39	7.95	6.65	—	—	—	—
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-030-ND	7.70	6.52	5.46	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-030-ND•	5.10	4.32	3.62	57140-000-ND•	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-030-ND•	5.07	4.29	3.59	57145-000-ND•	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-030-ND•	4.94	4.18	3.50	57150-000-ND•	2.67	2.26	1.89
SPST-N/C												
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-040-ND	4.52	3.83	3.20	57025-000-ND	2.57	2.18	1.82
3A	—	—	3.81/20.32	12" PVC Leads	59065-040-ND	4.97	4.21	3.52	57065-000-ND	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-040-ND	4.97	4.21	3.52	57070-000-ND	2.99	2.53	2.12
8	23.01	19.05	4.44/20.32	12" PVC Leads	59140-040-ND	4.81	4.07	3.41	57140-000-ND	2.86	2.42	2.03

• **HE1-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** Assortment of switches denoted. (22 total pieces) Includes notebook style standard case **$69.95**

C&K

Magnetic Sensors

Fig. 1

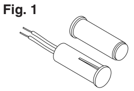

Fig. 2

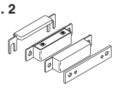

Fig. 3

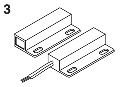

Fig. 4

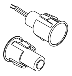

Fig. 5

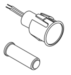

Fig. 6

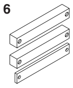

Fig. 7

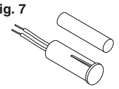

MPS Series Magnetic Proximity Sensors operate when a magnetic field approaches two magnetic reed blades. The magnetic field overcomes the spring tension of the blades and brings the contacts together. When the magnetic actuator is removed, the reeds separate by their own spring tension. Comes complete with reed switch and matching actuator. **FEATURES:** • Long Life Expectancy — 10 million operations • Housing made of rugged impact resistant ABS plastic that meets or exceeds UL requirements for fire retardation • Sealed Contacts allowing the reed to operate in damp and dusty environments • Wide gap performance makes magnet and switch alignment less critical. **SPECIFICATIONS: • Contact Ratings:** 30VDC or 30VAC maximum @ 0.3 Amp Maximum; 1.0 Amp Maximum Carry Current • **Operating Temperature:** -40°C ~ 100°C • **Mechanical & Electrical Life:** 10 Million Operations **MATERIALS: • Housing/Spacer/Cover:** ABS Plastic (UL94V-0), white • **Wire Leads:** UL1061, 22 AWG: stranded, made of copper or aluminum; Length: 12" (30.48cm) with ends stripped; Color: white • **Magnets:** Alnico V and Ceramic Ferrite 8 (MPS80WG model only)

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts.

Fig.	Make Gap (mm)	Release Gap (mm)	Digi-Key Part No.	Price Each				C&K Part No.
				1	10	100	250	
1	31.75	40.64	CKN6002-ND	6.98	6.03	5.08	4.60	MPS9WGW
2	31.75	31.75	CKN6003-ND	8.62	7.45	6.27	5.68	MPS20WGW
3	25.40	33.02	CKN6004-ND	7.39	6.38	5.38	4.87	MPS45WGW
4	31.75	40.64	CKN6005-ND	8.21	7.09	5.97	5.41	MPS70WGW
5	31.75	40.64	CKN6006-ND	8.21	7.09	5.97	5.41	MPS73WGW
6	50.80	50.80	CKN6007-ND	8.37	7.23	6.09	5.52	MPS80WGW
7	31.75	40.64	CKN6008-ND	6.98	6.03	5.08	4.60	MPS95WGW

SRC DEVICES Reed Relays

SRC Devices offers a selection of molded SIP and DIP 14 Reed Relays to meet customer applications. The DSS4 was developed several years ago and continues to be the relay of choice for hook switch in modems and general purpose applications.

Features: • High reliability switching • Long operating life (>1 billion operations) • Automatic insertion design.

Circuit	Coil Voltage (DC)	Coil Resistance	Switching Current (A)	Carry Current (A)	Digi-Key Part No.	Price Each 1	10	50	SRC Devices Part No.
SPST	12	1000	0.5	2	420-1024-ND*	3.80	3.22	2.70	DSS41A12B

* With Diode

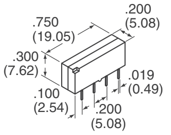

Diode – pin #3 is positive

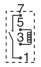

Ultra-Mini Reed Switches

SRC Devices Industry unique flat bladed, square reed switches. Ideally suited for small signal to moderate load switching tasks. With sputtered ruthenium contacts and laser-sealed glass, the FR series reed switch from SRC Devices is one of the most reliable reed switches available today. In addition, our square glass and flat leads allow for seamless integration into a high speed, automated assembly process via our standard SMT configuration. SRC Devices reed switches are the only reed switches fully SMT compatible by design, with or without overmolding. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

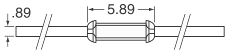

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Axial Lead OverMolded Switches											
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1038-ND	3.15	26.68	111.55	181.88	UM2S1520
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1040-ND	1.82	15.40	64.40	105.00	UM2S2025

• Operate and Release values are given in Ampere-Turns.

Magnetic Reed Switches

Reed switches have been used in thousands of applications from non-contact switches to sensing direction, speed and position. Reed switches are a reliable, low cost, low current switch that are hermitically sealed for operation in the most demanding environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Fig. 1

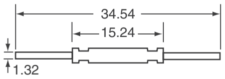

Fig. 2 — SMT

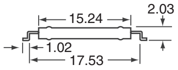

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Magnetic Reed Switches											
SPST	10-15	5-15	200VDC/VAC	0.5A	1.5A	420-1000-ND	1.79	15.13	63.25	101.75	FR2S1015-051500
SPST	10-20	5-20	200VDC/VAC	0.5A	1.5A	420-1001-ND	1.72	14.58	60.95	98.05	FR2S1020-052000
SPST	15-25	5-20	200VDC/VAC	0.5A	1.5A	420-1003-ND	1.53	12.93	54.05	86.95	FR2S1525-0525
SPST	20-25	5-25	200VDC/VAC	0.5A	1.5A	420-1004-ND	1.79	15.13	63.25	101.75	FR2S2025-052500
SPST	20-30	5-30	200VDC/VAC	0.5A	1.5A	420-1005-ND	1.72	14.58	60.95	98.05	FR2S2030

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel Pricing* 3,000	SRC Devices Part No.
Fig. 2 — SMT Reed Switches on Tape											
SPST	15-25	5-22	200VDC/VAC	0.5A	1.5A	420-1006-1-ND	2.00	17.10	74.10	712.50/M	FR2249
SPST	10-20	5-18	200VDC/VAC	0.5A	1.5A	420-1007-1-ND	2.07	17.70	76.70	737.50/M	FR2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1027-1-ND	2.00	17.10	74.10	712.50/M	FR2282
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1104-1-ND	2.14	18.30	79.30	762.50/M	FR2024
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1028-1-ND	2.14	18.30	79.30	762.50/M	FR2025
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1029-1-ND	2.14	18.30	79.30	762.50/M	FR2026

• Operate and Release values are given in Ampere-Turns. * For Tape and Reel part number, change 1-ND to 2-ND.

Overmolded Reed Switches

All the advantages of the non-molded DYAD®, plus the added strength of a low-stress plastic encapsulation. The SRC Devices Molded DYAD is designed for the harshest, most demanding applications. This plastic shell provides superior mechanical strength, eliminates concerns over handling glass switches, and provides an ideal solution for high speed, automated assembly environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Applications:

Security
- Proximity Sensing
- Smoke Alarms

Automotive
- Level Sensor
- Lamp Current Sensor

CM15

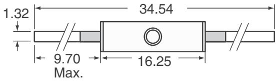

CM5

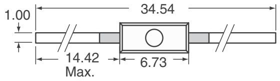

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Axial Lead Overmolded Switches											
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1047-ND	1.98	16.78	70.15	112.85	CM15S1015
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1048-ND	1.85	15.68	65.55	105.45	CM15S1020
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1049-ND	1.85	15.68	65.55	105.45	CM15S1030
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1050-ND	1.98	16.78	70.15	112.85	CM15S1520
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1051-ND	1.85	15.68	65.55	105.45	CM15S1525
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1052-ND	1.98	16.78	70.15	112.85	CM15S2025

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel* Qty.	Pricing	SRC Devices Part No.
SMT Overmolded Reed Switches												
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1041-1-ND	2.31	20.59	83.43	—	—	CM15-2024
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1042-1-ND	2.35	20.10	87.10	1,000	871.00	CM15-2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1043-1-ND	2.11	18.85	76.38	—	—	CM15-2282
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1044-1-ND	2.49	21.30	92.30	2,000	923.00/M	CM15-2025
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1045-1-ND	2.35	20.10	87.10	2,000	871.00/M	CM15-2249
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1046-1-ND	2.49	21.30	92.30	2,000	923.00/M	CM15-2026
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1053-1-ND	3.54	31.61	128.08	—	—	CM5-2319
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1056-1-ND	3.54	31.61	128.08	—	—	CM5-2325
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1057-1-ND	4.16	37.12	150.40	—	—	CM5-2341

• Operate and Release values are given in Ampere-Turns. * For Tape and Reel part number, change 1-ND to 2-ND.

Magnetic Reed Switches

Fig. 1

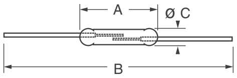

Fig. 2 – Gull Wing

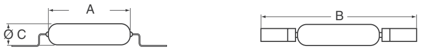

Fig. 3 – SMD Version

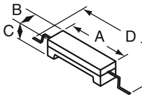

Fig.	Circuit	Ampere Turns	Maximum DC Contact Rating Watts	Maximum DC Contact Rating Volts	Switching Current (A)	Carry Current (A)	Operate/ Release (ms/µs)	Dimensions - Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Coto Part No.
1	SPST	14-23	10	200	0.5	1	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1168-ND	1.98	1.68	1.41	RI-01BAA
	SPST	16-25	10	200	0.5	1	.35/50	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1169-ND	1.98	1.68	1.41	RI-01CA
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1171-ND	2.15	1.82	1.52	RI-03A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1172-ND	2.15	1.82	1.52	RI-07AA
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1188-ND	2.05	1.74	1.45	RI-21A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1087-ND	2.15	1.82	1.52	RI-23A
	SPST	14-23	10	200	0.5	1.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1086-ND	2.15	1.82	1.52	RI-23AA
	SPST	14-23	15	200	1	1.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1091-ND	2.05	1.74	1.45	RI-25AA
	SPST	8-16	10	200	0.75	1.5	.25/70	.591 (15)	1.811 (46)	.1 (2.54)	306-1090-ND	2.05	1.74	1.45	RI-25AAA
	SPST	28-52	25	200	1	2.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1093-ND	2.05	1.74	1.45	RI-25B
	SPST	46-70	25	200	1	3	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1094-ND	2.05	1.74	1.45	RI-25C
	SPST	20-34	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1082-ND	2.15	1.82	1.52	RI-27A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1081-ND	2.15	1.82	1.52	RI-27AA
	SPST	10-19	10	180	0.5	1.5	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1080-ND	2.15	1.82	1.52	RI-27AAA
	SPST	16-25	15	200	1	1.25	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1083-ND	2.15	1.82	1.52	RI-29AA
	SPST	10-19	30	200	0.75	2	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1098-ND	2.15	1.82	1.52	RI-46AA
	SPST	24-51	40	200	1	3	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1100-ND	2.15	1.82	1.52	RI-46B
	SPST	46-70	70	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1104-ND	2.15	1.82	1.52	RI-48C
	SPST	15-20	10	200	0.5	0.5	.15/20	.394 (10)	1.811 (46)	.071 (1.8)	306-1122-ND	1.56	1.32	1.11	RI60GP1520

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (A)	Carry Current (A)	Operate/ Release (ms/µs)	Package	Dimensions - Inches (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Coto Part No.
2	SPST	9-15	10	200	0.5	0.5	.30/70	Gullwing	.394 (10)	.768 (19.5)	.069 (1.75)	306-1190-1-ND	1.69	1.43	1.20	RI-02SMD-G2
	SPST	9-15	10	200	0.5	0.5	.30/70	Gullwing	.394 (10)	.768 (19.5)	.069 (1.75)	306-1190-2-ND‡		4732.00/7,000		RI-02SMD-G2

‡ Tape and Reel

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (A)	Carry Current (A)	Package	Dimensions - Inches (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Coto Part No.
3	SPST	30-50	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1148-1-ND	2.96	2.51	2.10	306-1148-2-ND	1274.00/M	CT05-3050-G1
	SPST	15-35	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1149-1-ND	2.96	2.51	2.10	306-1149-2-ND	1274.00/M	CT05-1535-G1
	SPST	30-50	5	140	0.35	0.5	J-Lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1150-1-ND	2.96	2.51	2.10	306-1150-2-ND	1274.00/M	CT05-3050-J1
	SPST	15-35	5	140	0.35	0.5	J-Lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1151-1-ND	2.96	2.51	2.10	306-1151-2-ND	1274.00/M	CT05-1535-J1
	SPST	15-30	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1125-1-ND	1.20	1.02	.86	306-1125-2-ND	518.00/M	CT10-1530-G1
	SPST	15-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1124-1-ND	1.20	1.02	.86	306-1124-2-ND	518.00/M	CT10-1540-G1
	SPST	25-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1126-1-ND	2.18	1.85	1.55	306-1126-2-ND	871.00/M	CT10-2540-G1

MEDER electronic
Products for tomorrow...

Magnetic Reed Switches, Reed Relays, Reed Sensors and Magnets

Reed Switches: Reed switches consist of two ferromagnetic blades of iron and nickel, hermetically sealed in a glass capsule. The introduction or removal of a magnetic field actuates the Reed Switch. Over 500 reed switches to choose from ranging in size from the ultra miniature 4mm to 52mm. **Reed Sensors:** Reed sensors magnetically actuated proximity switches available in a variety of mounting options. The switching function is activated by the introduction or removal of a magnetic field. **Reed Relays:** Reed relays are ideal for applications requiring low and stable contact resistance, low capacitance, high insulation resistance, long life and small package size. They are also suitable for high RF switching and low current switching.

Fig.	Circuit	Dimensions (mm) A	Dimensions (mm) B	Switching Voltage	Switching Current (A)	Termination or Wiring	Digi-Key Part No.	Price Each 1	10	50	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Meder Part No.
NEW! Reed Switches NEW!													
1	SPST-NO	10	2.0	24	0.1	Axial (2 Leads)	374-1083-ND	.91	.82	.66	—	—	ORD211-1015
	SPST-NO	10	2.0	24	0.1	Axial (2 Leads)	374-1084-ND	.91	.82	.66	—	—	ORD211-1520
	SPST-NO	7	1.8	24	0.1	Axial (2 Leads)	374-1085-ND	1.37	1.22	.99	—	—	ORD213-1015
	SPST-NO	7	1.8	24	0.1	Axial (2 Leads)	374-1086-ND	1.37	1.22	.99	—	—	ORD213-1520
	SPST-NO	7	1.8	24	0.1	SMD Tab	374-1087-ND	1.76	1.57	1.27	—	—	ORD213S-1-1015
	SPST-NO	14	2.2	100	0.5	Axial (2 Leads)	374-1088-ND	.78	.70	.57	—	—	ORD228VL-1015
	SPST-NO	14	2.2	100	0.5	Axial (2 Leads)	374-1089-ND	.78	.70	.57	—	—	ORD228VL-1520
	SPST-NO	21	2.75	350	0.7	Axial (2 Leads)	374-1090-ND	1.37	1.22	.99	—	—	ORD229-2025
	SPST-NO	21	2.75	350	0.7	Axial (2 Leads)	374-1091-ND	1.37	1.22	.99	—	—	ORD229-2530
	SPST-NO	7	1.8	100	1	Axial (2 Leads)	374-1127-ND	1.33	1.19	.97	—	—	ORD311-1015
	SPST-NO	12	2.0	200	0.5	Axial (2 Leads)	374-1128-ND	1.37	1.22	.99	—	—	ORD312-1015
	SPST-NO	14	2.2	200	0.5	Axial (2 Leads)	374-1092-ND	.65	.58	.47	—	—	ORD324-1015
	SPST-NO	3.95	1.3	60	0.3	Axial (2 Leads)	374-1131-ND	5.98	5.34	4.33	—	—	KSK-1A04-1015
	SPST-NO	10.5	1.95	200	1	Axial (2 Leads)	374-1076-ND	.98	.87	.71	—	—	KSK-1A35-1015
	SPST-NO	10.5	1.8	200	1	Axial (2 Leads)	374-1122-ND	.98	.87	.71	—	—	KSK-1A35-1520
	SPST-NO	14	2.2	180	0.5	Axial (2 Leads)	374-1077-ND	1.04	.93	.76	—	—	KSK-1A66-1015
	SPST-NO	14	2.2	180	0.5	Axial (2 Leads)	374-1078-ND	1.04	.93	.76	—	—	KSK-1A66-1520
	SPST-NO	7	1.8	170	0.5	Axial (2 Leads)	374-1079-ND	1.72	1.54	1.25	—	—	KSK-1A80-1015
	SPST-NO	10	2.0	200	0.5	Axial (2 Leads)	374-1080-ND	1.33	1.19	.97	—	—	KSK-1A87-1015
	SPST-NO	10	2.0	200	0.5	Axial (2 Leads)	374-1081-ND	1.33	1.19	.97	—	—	KSK-1A87-1520
	SPST-NO	21	2.75	350	0.5	Axial (2 Leads)	374-1123-ND	2.11	1.89	1.53	—	—	KSK-1A52-2025
	SPST-NO	21	2.75	1000	1	Axial (2 Leads)	374-1124-ND	1.92	1.72	1.39	—	—	KSK-1A85-2030

† Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Fig. 1 ***NEW!***

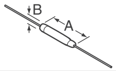

Fig. 2 ***NEW!***

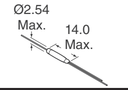

Fig. 3 ***NEW!***

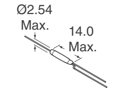

Fig. 4 ***NEW!***

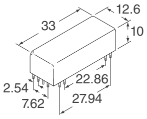

Fig. 5 ***NEW!***

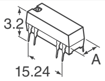

Fig. 6 ***NEW!***

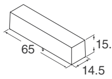

Fig. 7 ***NEW!***

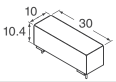

Magnetic Reed Switches, Reed Relays
Reed Sensors and Magnets *(Cont.)*

Fig.	Circuit	Dimensions (mm) A	B	Switching Voltage	Current (A)	Termination or Wiring	Digi-Key Part No.	Price Each 1	10	50	Tape and Reel‡ Qty.	Pricing	Meder Part No.
2	SPDT	—	—	30	0.2	Axial (3 Leads)	374-1093-ND	2.73	2.44	1.98	—	—	ORT551-1015
3	SPDT	—	—	175	0.5	Axial (3 Leads)	374-1082-ND	3.51	3.14	2.54	—	—	KSK-1C90F-1015
	SPDT	—	—	175	0.5	Axial (3 Leads)	374-1125-ND	3.51	3.14	2.54	—	—	KSK-1C90F-1520
	SPDT	—	—	175	0.5	Axial (3 Leads)	374-1126-ND	3.51	3.14	2.54	—	—	KSK-1C90F-2025
NEW! Reed Relays NEW!													
4	DPST	—	—	1.0	1.0	PC Pins	374-1132-ND	18.59	16.59	13.45	—	—	BE05-2A85-P
5	SPST-NO	7.0	—	200	1.0	PC Pins	374-1107-ND	4.78	4.27	3.46	—	—	DIP05-1A72-11D
	SPST-NO	6.4	—	200	1.0	PC Pins	374-1051-ND	4.06	3.63	2.94	—	—	DIP05-1A72-11L
	SPDT	7.0	—	175	0.25	PC Pins	374-1052-ND	11.18	9.98	8.09	—	—	DIP05-1C90-51D
6	SPST-NO	—	—	7.5	3.0	PC Pins	374-1108-ND	66.01	58.90	47.73	—	—	HE12-1A83-03
	SPST-NO	—	—	7.5	3.0	PC Pins	374-1109-ND	66.01	58.90	47.73	—	—	HE24-1A83-02
7	SPST-NO	—	—	1000	1.0	PC Pins	374-1110-ND	16.87	15.06	12.20	—	—	LI12-1A85
8	SPST-NO	—	—	200	0.5	PC Pins	374-1046-5-ND	5.82	5.20	4.21	—	—	MS05-1A87-75LHR
	SPST-NO	—	—	200	0.5	PC Pins	374-1049-5-ND	5.30	4.73	3.84	—	—	MS12-1A87-75L
9	DPST	—	—	200	0.5	PC Pins	374-1053-ND	15.11	13.49	10.93	—	—	MS05-2A87-78D
10	SPST-NO	—	—	200	1.0	PC Pins	374-1113-ND	4.45	3.98	3.22	—	—	SIL05-1A72-71D
	SPST-NO	—	—	200	1.0	PC Pins	374-1054-ND	4.26	3.80	3.08	—	—	SIL05-1A72-71L
	SPST-NO	—	—	200	1.0	PC Pins	374-1114-ND	4.45	3.98	3.22	—	—	SIL12-1A72-71L
11	SPST-NO	—	—	1000	1.0	PC Pins	374-1056-ND	15.73	14.04	11.38	—	—	SIL05-1A85-76D2K
	SPST-NO	—	—	1000	1.0	PC Pins	374-1055-ND	14.20	12.68	10.27	—	—	SIL05-1A85-76L2K
Reed Sensors													
12	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1115-ND ***NEW!***	8.81	7.86	6.37	—	—	MK04-1A66B-500W
	SPST-NC	—	—	175	0.25	500mm PVC Leads	374-1059-ND ***NEW!***	14.30	12.76	10.34	—	—	MK04-1B90C-500W
	SPDT	—	—	175	0.25	500mm PVC Leads	374-1060-ND ***NEW!***	14.30	12.76	10.34	—	—	MK04-1C90C-500W
13	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1061-ND ***NEW!***	8.81	7.86	6.37	—	—	MK05-1A66B-500W
14	SPST-NO	—	—	200	0.5	PCB	374-1062-ND ***NEW!***	7.90	7.05	5.72	—	—	MK06-10-E
15	SPST-NO	12.06	3.3	170	0.5	PCB	374-1063-ND ***NEW!***	3.58	3.19	2.59	—	—	MK06-4-B
	SPST-NO	17.24	4.2	200	0.5	PCB	374-1064-ND ***NEW!***	1.89	1.69	1.37	—	—	MK06-6-B
	SPST-NO	17.24	4.2	200	0.5	PCB	374-1035-ND ***NEW!***	1.89	1.69	1.37	—	—	MK06-6-C
	SPST-NO	19.78	4.2	200	0.5	PCB	374-1066-ND ***NEW!***	1.76	1.57	1.27	—	—	MK06-7-B
	SPST-NO	22.32	4.2	180	0.5	PCB	374-1067-ND ***NEW!***	1.63	1.45	1.18	—	—	MK06-8-B
16	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1008-ND ***NEW!***	9.52	8.50	6.89	—	—	MK12-1A66B-500W
17	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1010-ND ***NEW!***	8.06	7.20	5.83	—	—	MK13-1A66B-500W
	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1011-ND ***NEW!***	8.06	7.20	5.83	—	—	MK13-1A66C-500W
18	SPST-NO	15.60	1.80	200	1.0	SMD	374-1070-1-ND† ***NEW!***	1.01	.90	.73	2,500	403.00/M	MK23-35-B-2
	SPST-NO	14.0	2.2	200	0.5	SMD	374-1071-1-ND† ***NEW!***	1.14	1.02	.83	2,500	455.00/M	MK23-66-B-2
	SPST-NO	7.0	2.0	170	0.25	SMD	374-1072-1-ND† ***NEW!***	2.21	1.98	1.60	2,500	884.00/M	MK23-80-B-2
	SPST-NO	10.0	2.0	200	0.5	SMD	374-1073-1-ND† ***NEW!***	1.59	1.43	1.16	2,500	637.00/M	MK23-87-B-2
	SPDT	20.32	2.8	175	0.5	SMD	374-1074-1-ND† ***NEW!***	3.84	3.43	2.78	2,500	1534.00/M	MK23-90-C-2
19	SPST-NO	—	—	170	0.5	SMD	374-1120-1-ND† ***NEW!***	3.02	2.70	2.19	2,000	1209.00/M	MK17-B-3
20	SPST-NO	—	—	60	0.3	SMD	374-1075-1-ND† ***NEW!***	7.64	6.82	5.53	2,000	3055.00/M	MK24-B-3
21	SPST-NO	17.00	5.00	200	0.5	100mm PVC Leads	374-1023-ND	8.06	7.20	5.83	—	—	MK18-B-100W
	SPST-NO	17.00	5.00	200	0.5	100mm PVC Leads	374-1024-ND	8.06	7.20	5.83	—	—	MK18-C-100W
	SPST-NO	10.00	3.0	175	0.25	100mm PVC Leads	374-1069-ND ***NEW!***	8.87	7.92	6.42	—	—	MK20/1-B-100W
	SPST-NO	25.50	5.75	180	0.5	500mm PVC Leads	374-1027-ND	6.27	5.60	4.54	—	—	MK3-1A71B-500W
	SPST-NO	25.50	5.75	180	0.5	500mm PVC Leads	374-1028-ND	6.27	5.60	4.54	—	—	MK03-1A66C-500W
	SPST-NC	25.50	5.75	175	0.25	500mm PVC Leads	374-1029-ND	11.86	10.59	8.58	—	—	MK3-1B90C-500W
22	SPST-NO	16.00	2.50	200	0.5	SMD	374-1013-1-ND†	1.85	1.66	1.34	2,500	598.00/M	MK15-B-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1017-1-ND†	2.21	1.98	1.60	2,500	780.00/M	MK16-B-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1019-1-ND†	2.21	1.98	1.60	2,500	780.00/M	MK16-C-2
	SPST-NO	8.50	2.10	170	0.5	SMD	374-1021-1-ND†	2.86	2.56	2.07	2,000	1079.00/M	MK17-B-2
	SPST-NO	11.6	2.70	200	1.0	SMD	374-1043-1-ND†	1.72	1.46	1.22	2,500	559.00/M	MK22-B-2
23	SPST-NO	24.90	—	180	0.5	500mm PVC Leads	374-1007-ND	13.39	11.95	9.69	—	—	MK11-1A66C-500W
	SPST-NO	25.00	—	200	0.5	500mm PVC Leads	374-1006-ND ***NEW!***	13.39	11.95	9.69	—	—	MK11-1A66B-500W
24	SPST-NO	—	—	200	0.5	500mm PVC Leads	374-1068-ND ***NEW!***	9.95	8.88	7.20	—	—	MK11/M8-1A66B-500W
25	SPST	8.6	4.4	170	0.5	SMD	374-1039-1-ND†	8.19	6.93	5.80	1,000	3120.00	CRR05-1A
	SPST	8.6	4.4	170	0.5	SMD	374-1040-1-ND†	11.96	10.12	8.47	1,000	4648.00	CRR05-1AS
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1041-1-ND†	9.02	7.81	6.68	1,000	4511.00	CRF05-1A
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1042-1-ND†	11.91	10.31	8.82	1,000	5732.00	CRF05-1AS
26	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1047-5-ND	6.34	5.37	4.49	—	—	MS05-1A87-75DHR
	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1050-5-ND	5.82	4.93	4.12	—	—	MS12-1A87-75D
27	SPST-NO	—	—	3	0.1mA	SMD Tab	374-1121-1-ND† ***NEW!***	22.43	20.01	16.22	1,000	8970.00	MMS-B-2

† Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Description	Dimensions L x W x H	Material	Typical Magnetic Dipole Moment $(x10^{-5})$	Digi-Key Part No.	Price Each 1	10	50	Meder Part No.
NEW! Magnets NEW!								
M04 Actuator Magnet, Panel Screw Mount	23 x 13.9 x 5.9	AlNiCo	1.21	374-1094-ND	2.99	2.67	2.17	2500000004
M05 Actuator Magnet, Panel Screw Mount	23 x 19.4 x 5.9	AlNiCo	1.21	374-1095-ND	2.99	2.67	2.17	2500000005
M13 Actuator Magnet, Panel Screw Mount	23 x 13.9 x 5.9	AlNiCo	1.21	374-1097-ND	2.99	2.67	2.17	2500000013
M06 Actuator Magnet, Floating	12.06 ~ 22.32 x 3.3 x 4.2	AlNiCo	0.53	374-1096-ND	2.73	2.44	1.98	2500000006
M14 Actuator Magnet, Floating	23 x 19	AlNiCo	0.35	374-1098-ND	2.73	2.44	1.98	2500000014
M11/M8 Actuator Magnet, Threaded 8mm Cylindrical	25 ~ 38 x ø0.5	AlNiCo	2.22	374-1099-ND	3.71	3.31	2.68	2500001108
1.9mm Permanent Cylindrical Magnet	3 x ø1.9	SmCo5	0.0727	374-1102-ND	1.17	1.05	.85	4003004017
2.5mm Permanent Cylindrical Magnet	12.7 x ø2.5	AlNiCo	0.5	374-1129-ND	.91	.82	.66	4003004015
3mm Permanent Cylindrical Magnet	4 x ø3	SmCo5	0.248	374-1103-ND	1.07	.96	.78	4003004025
4mm Permanent Cylindrical Magnet	19 x ø4	AlNiCo	2.22	374-1100-ND	1.07	.96	.78	4003004003
5mm Permanent Cylindrical Magnet	4 x ø5	SmCo5	0.709	374-1104-ND	1.53	1.37	1.11	4003004026
6mm Permanent Cylindrical Magnet	10 x ø6	NdFeB	3.19	374-1105-ND	2.02	1.80	1.46	4003004030
7.6mm Permanent Cylindrical Magnet	27 x ø7.6	AlNiCo	9.34	374-1101-ND	3.06	2.73	2.21	4003004006
Permanent Rectangular Magnet	19 x 3.2 x 3.2	AlNiCo	1.92	374-1130-ND	1.50	1.34	1.09	4003004018
Permanent Rectangular Magnet	10 x 5 x 1.9	NdFeB	1.075	374-1106-ND	1.01	.90	.73	4003004032

Fig. 8
NEW!
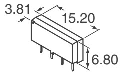

Fig. 9
NEW!
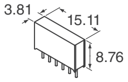

Fig. 10
NEW!
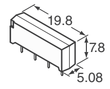

Fig. 11
NEW!
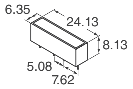

Fig. 12
NEW!
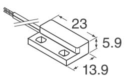

Fig. 13
NEW!
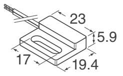

Fig. 14
NEW!
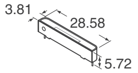

Fig. 15
NEW!
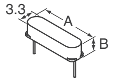

Fig. 16
NEW!
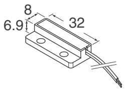

Fig. 17
NEW!
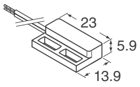

Fig. 18
NEW!
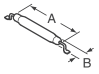

Fig. 19 ***NEW!***
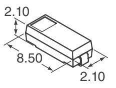

Fig. 20 ***NEW!***
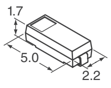

Fig. 21
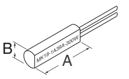

Fig. 22
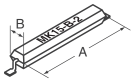

Fig. 23
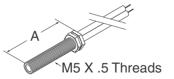

Fig. 24
NEW!
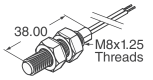

Fig. 25
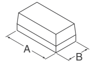

Fig. 26
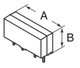

Fig. 27
NEW!
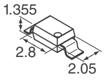

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

RoHS COMPLIANT

Fig. 1 — G5V

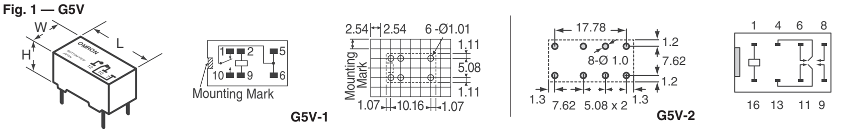

Fig. 2 — G6A-2

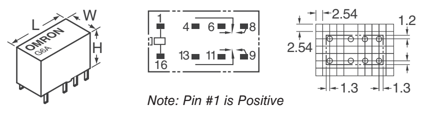

Note: Pin #1 is Positive

Fig. 3 — G5A

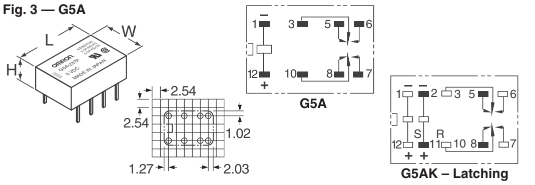

Fig. 4 — G6E

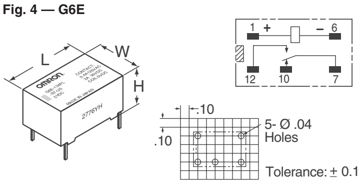

Fig. 5 — G6A-4

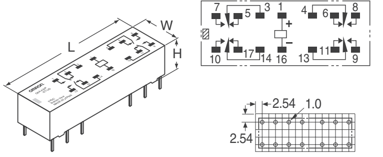

Fig. 6 — G6J

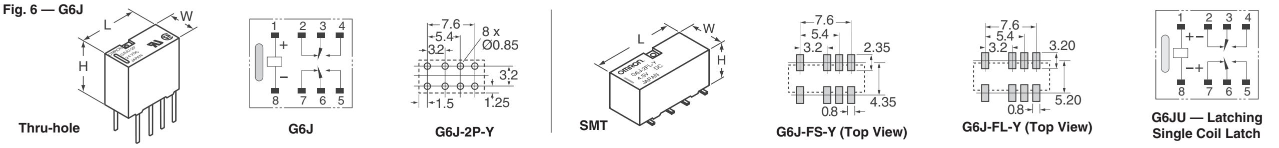

Fig.	Contact Form	Coil		Contact Ratings Resistive (A)		Operating Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each			Omron Part No.
		Voltage (VDC)	Resistance (Ω)	24 VDC	115 VAC					1	25	50	
PC Mount Low Signal Relays													
1	SPDT	3	60	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z2204-ND†	1.99	1.80	1.60	G5V-1-DC3
	SPDT	5	167	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z773-ND†	1.99	1.80	1.60	G5V-1-DC5
	SPDT	6	240	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z2538-ND†	1.99	1.80	1.60	G5V-1-DC6
	SPDT	9	540	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z2539-ND†	1.99	1.80	1.60	G5V-1-DC9
	SPDT	12	960	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z774-ND†	1.99	1.80	1.60	G5V-1-DC12
	SPDT	24	3,840	1	0.5	80/10/200	5/5	10 x 12.5 x 7.5	Z775-ND†	1.99	1.80	1.60	G5V-1-DC24
	DPDT	3	18	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z2185-ND	2.45	2.21	1.97	G5V-2-DC3
	DPDT	5	50	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z767-ND	2.45	2.21	1.97	G5V-2-DC5
	DPDT	12	288	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z768-ND	2.45	2.21	1.97	G5V-2-DC12
	DPDT	24	1,152	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z769-ND	2.45	2.21	1.97	G5V-2-DC24
	DPDT	48	4,000	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z2255-ND	2.90	2.62	2.33	G5V-2-DC48
	DPDT	5	70	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z770-ND	2.63	2.38	2.11	G5V-2-H-DC5
	DPDT	12	400	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z771-ND	2.63	2.38	2.11	G5V-2-H-DC12
	DPDT	24	1,600	2	0.5	75/5/120	7/3	11.5 x 20.5 x 10.1	Z772-ND	2.63	2.38	2.11	G5V-2-H-DC24
	DPDT	3	60	2	0.5	75/5/150	7/3	11.5 x 20.5 x 10.1	Z2203-ND	2.71	2.44	2.17	G5V-2-H1-DC3
	DPDT	5	166.7	2	0.5	75/5/150	7/3	11.5 x 20.5 x 10.1	Z108-ND	2.71	2.44	2.17	G5V-2-H1-DC5
	DPDT	12	960	2	0.5	75/5/150	7/3	11.5 x 20.5 x 10.1	Z109-ND	2.71	2.44	2.17	G5V-2-H1-DC12
	DPDT	24	2,880	2	0.5	75/5/150	7/3	11.5 x 20.5 x 10.1	Z110-ND	2.71	2.44	2.17	G5V-2-H1-DC24
	DPDT	48	7,680	1	0.5	75/5/150	7/3	11.5 x 20.5 x 10.1	Z2930-ND	2.97	2.68	2.38	G5V-2-H1 DC48
2	DPDT	5	125	1	0.6	70/10/150	5/5	8.4 x 20.2 x 10.1	Z105-ND‡	5.30	4.78	4.25	G6A-234P-ST-US DC5 BY OMR
	DPDT	12	720	1	0.6	70/10/150	5/5	8.4 x 20.2 x 10.1	Z106-ND‡	5.30	4.78	4.25	G6A-234P-ST-US DC12 BY OMR
	DPDT	24	2,880	1	0.6	70/10/150	5/5	8.4 x 20.2 x 10.1	Z107-ND‡	5.30	4.78	4.25	G6A-234P-ST-US-DC24
	DPDT	3	45	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z122-ND‡	5.30	4.78	4.25	G6A-274P-ST-US DC3 BY OMR
	DPDT	5	125	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z123-ND‡	5.30	4.78	4.25	G6A-274P-ST-US DC5 BY OMR
	DPDT	12	720	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z124-ND‡	5.30	4.78	4.25	G6A-274P-ST-US DC12 BY OMR
	DPDT	24	2,880	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z125-ND‡	5.30	4.78	4.25	G6A-274P-ST-US DC24
	DPDT	5	62.5	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z2931-ND	4.57	4.11	3.66	G6A-274P-ST40-US-DC5
	DPDT	24	1,440	2	0.5	70/10/150	5/3	8.4 x 20.2 x 10.1	Z2246-ND‡	4.57	4.11	3.66	G6A-274P-ST40-US-DC24
	DPDT	48	9,750	2	0.5	75/5/150	5/3	8.4 x 20.2 x 10.1	Z2256-ND‡	5.46	4.92	4.38	G6A-274P-ST-US-DC48
3	DPDT	24	2,880	1	0.5	70/10/150	5/5	7.9 x 16 x 9.9	Z708-ND	4.95	4.46	3.96	G5A-237P-DC24
	DPDT	5	125	1	0.5	70/10/150	5/5	8.0 x 16 x 9.9	Z942-ND	5.21	4.70	4.18	G5A-234P-DC5
	DPDT	12	720	1	0.5	70/10/150	5/5	8.0 x 16 x 9.9	Z943-ND	5.21	4.70	4.18	G5A-234P-DC12
	DPDT	24	2,880	1	0.5	70/10/150	5/5	8.0 x 16 x 9.9	Z944-ND	5.21	4.70	4.18	G5A-234P-DC24
	DPDT	5	125	1	0.5	80/80/200	5/5	8.4 x 16 x 9.9	Z2928-ND	6.55	5.90	5.25	G5AK-234P-DC5
4	SPDT	5	63	3	0.6	70/10/190	5/5	8.0 x 16 x 9.9	Z761-ND	4.74	4.27	3.79	G6E-134P-L-ST-US-DC5
	SPDT	12	360	3	0.6	70/10/190	5/5	8.0 x 16 x 9.9	Z762-ND	4.74	4.27	3.79	G6E-134P-L-ST-US-DC12
	SPDT	24	1,440	3	0.6	70/10/190	5/5	8.0 x 16 x 9.9	Z763-ND	4.74	4.27	3.79	G6E-134P-L-ST-US-DC24
	SPDT	3	45	3	0.2	70/10/190	5/5	7.9 x 16 x 9.9	Z2599-ND‡	4.93	4.45	3.95	G6E-134P-ST-US-DC3
	SPDT	5	125	3	0.2	70/10/190	5/5	7.9 x 16 x 9.9	Z830-ND‡	4.93	4.45	3.95	G6E-134P-ST-US-DC5
	SPDT	9	405	3	0.2	70/10/190	5/5	7.9 x 16 x 9.9	Z2600-ND‡	4.93	4.45	3.95	G6E-134P-ST-US-DC9
	SPDT	12	720	3	0.2	70/10/190	5/5	7.9 x 16 x 9.9	Z831-ND‡	4.93	4.45	3.95	G6E-134P-ST-US-DC12
	SPDT	24	2,880	3	0.2	70/10/190	5/5	7.9 x 16 x 9.9	Z832-ND‡	4.93	4.45	3.95	G6E-134P-ST-US-DC24
5	4PDT	12	400	1	0.3	70/10/150	7/5	8.4 x 35.4 x 10.1	Z206-ND‡	8.99	8.10	7.20	G6A-434P-ST-US-DC12
	4PDT	24	1,600	1	0.3	70/10/150	7/5	8.4 x 35.4 x 10.1	Z941-ND‡	8.99	8.10	7.20	G6A-434P-ST-US-DC24
	4PDT	12	400	2	0.5	70/10/150	7/5	8.4 x 35.4 x 10.1	Z2932-ND	8.99	8.10	7.20	G6A-474P-ST-US-DC12
Ultracompact — TELECOM													
Thru Hole													
6	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	9.0 x 10.6 x 5.7	Z2131-ND	3.65	3.29	2.93	G6J-2P-Y-DC4.5
	DPDT	5	173.1	1	0.3	75/10/150	3/3	9.0 x 10.6 x 5.7	Z2132-ND	3.65	3.29	2.93	G6J-2P-Y-DC5
	DPDT	12	976.8	1	0.3	75/10/150	3/3	9.0 x 10.6 x 5.7	Z2133-ND	3.65	3.29	2.93	G6J-2P-Y-DC12
	DPDT	24	2,600.5	1	0.3	75/10/150	3/3	9.0 x 10.6 x 5.7	Z2134-ND	3.65	3.29	2.93	G6J-2P-Y-DC24
7	DPDT	4.5	194	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z115-ND	3.65	3.29	2.92	G6K-2P-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z116-ND	3.65	3.29	2.92	G6K-2P-DC5
	DPDT	12	1,407	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z117-ND	3.65	3.29	2.92	G6K-2P-DC12

† Sealed case ‡ Meets FCC Part 68 standards ◊ Tape and Reel

(Continued)

Fig. 7 — G6K

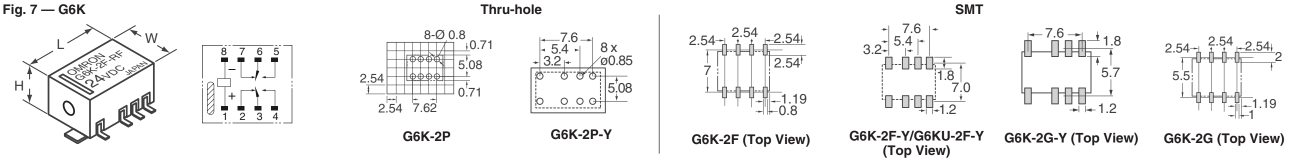

G6K-2P G6K-2P-Y G6K-2F (Top View) G6K-2F-Y/G6KU-2F-Y (Top View) G6K-2G-Y (Top View) G6K-2G (Top View)

Fig. 8 — G6L

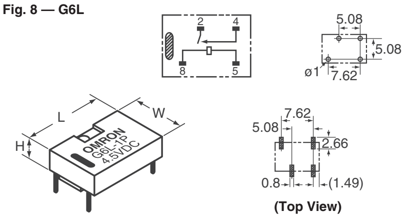

(Top View)

Fig. 9 — G6H

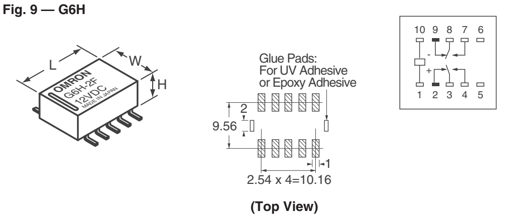

(Top View)

Fig. 10 — G6S-2

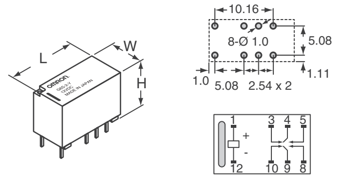

Fig.	Contact Form	Coil Voltage (VDC)	Coil Resistance (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Operating Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
7	DPDT	24	5,220	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z118-ND	3.65	3.29	2.92	G6K-2P-DC24
	DPDT	3	91	1	0.3	80/10/150	3/3	5.0 x 10 x 6.5	Z2658-ND	3.65	3.29	2.92	G6K-2P-Y-DC3
	DPDT	4.5	194	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z131-ND	3.65	3.29	2.92	G6K-2P-Y-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z132-ND	3.65	3.29	2.92	G6K-2P-Y-DC5
	DPDT	12	1,407	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z133-ND	3.65	3.29	2.92	G6K-2P-Y-DC12
	DPDT	24	5,220	1	0.3	75/5/200	3/3	5.0 x 10 x 6.5	Z134-ND	3.65	3.29	2.92	G6K-2P-Y-DC24
						SMT							
6	DPDT	3	62.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2526TR-ND◊		730.80/400		G6J-2FS-Y-TR-DC3
	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2135-ND	3.65	3.29	2.93	G6J-2FS-Y-DC4.5
	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2135TR-ND◊		749.60/400		G6J-2FS-Y-TR-DC4.5
	DPDT	5	173.1	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2136-ND	3.65	3.29	2.93	G6J-2FS-Y-DC5
	DPDT	5	173.1	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2136TR-ND◊		730.80/400		G6J-2FS-Y-TR-DC5
	DPDT	12	976.8	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2137-ND	3.65	3.29	2.93	G6J-2FS-Y-DC12
	DPDT	12	976.8	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2137TR-ND◊		730.80/400		G6J-2FS-Y-TR-DC12
	DPDT	24	2,600.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2138-ND	3.65	3.29	2.93	G6J-2FS-Y-DC24
	DPDT	24	2,600.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2138TR-ND◊		730.80/400		G6J-2FS-Y-TR-DC24
	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2139-ND	3.65	3.29	2.93	G6J-2FL-Y-DC4.5
	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2139TR-ND◊		748.60/400		G6J-2FL-Y-TR-DC4.5
	DPDT	3	62.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2933-ND	3.65	3.29	2.93	G6J-2FL-Y DC3
	DPDT	5	173.1	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2140-ND	3.65	3.29	2.93	G6J-2FL-Y-DC5
	DPDT	5	173.1	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2140TR-ND◊		730.80/400		G6J-2FL-Y-TR-DC5
	DPDT	12	976.8	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2141-ND	3.65	3.29	2.93	G6J-2FL-Y-DC12
	DPDT	12	976.8	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2141TR-ND◊		804.20/400		G6J-2FL-Y-TR-DC12
	DPDT	24	2,600.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2142-ND	3.65	3.29	2.93	G6J-2FL-Y-DC24
	DPDT	24	2,600.5	1	0.3	75/10/150	3/3	10 x 10.6 x 5.7	Z2142TR-ND◊		730.80/400		G6J-2FL-Y-TR-DC24
7	DPDT	3	91	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z2186-ND	3.65	3.29	2.92	G6K-2F-DC3
	DPDT	4.5	194	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z111-ND	3.65	3.29	2.92	G6K-2F-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z112-ND	3.65	3.29	2.92	G6K-2F-DC5
	DPDT	12	1,407	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z113-ND	3.65	3.29	2.92	G6K-2F-DC12
	DPDT	12	1,315	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z113TR-ND◊		1642.39/900		G6K-2F-TR-DC12
	DPDT	24	5,220	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z114-ND	3.65	3.29	2.92	G6K-2F-DC24
	DPDT	24	5,220	1	0.3	80/10/150	3/3	5.0 x 10 x 6.5	Z114TR-ND◊ ***NEW!***		1970.87/900		G6K-2F-TR DC24
	DPDT	3	91	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z2354-ND	3.65	3.29	2.92	G6K-2F-Y-DC3
	DPDT	4.5	194	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z127-ND	3.65	3.29	2.92	G6K-2F-Y-DC4.5
	DPDT	5	237	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z128-ND	3.65	3.29	2.92	G6K-2F-Y-DC5
	DPDT	5	237	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z128TR-ND◊		1642.39/900		G6K-2F-Y-TR-DC5
	DPDT	12	1,407	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z129-ND	3.65	3.29	2.92	G6K-2F-Y-DC12
	DPDT	12	1,315	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z129TR-ND◊		1642.39/900		G6K-2F-Y-TR-DC12
	DPDT	24	5,220	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z130-ND	3.65	3.29	2.92	G6K-2F-Y-DC24
	DPDT	24	5,220	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z130TR-ND◊		1642.39/900		G6K-2F-Y-TR-DC24
	DPDT	4.5	194	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z135-ND	3.65	3.29	2.92	G6K-2G-Y-DC4.5
	DPDT	5	237	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z2867-ND	3.65	3.29	2.92	G6K-2G DC5
	DPDT	5	237	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z136-ND	3.65	3.29	2.92	G6K-2G-Y-DC5
	DPDT	5	237	1	0.3	80/10/150	3/3	5.2 x 10 x 6.5	Z2657TR-ND◊		1642.39/900		G6K-2G-TR-DC5
	DPDT	12	1,407	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z137-ND	3.65	3.29	2.92	G6K-2G-Y-DC12
	DPDT	24	5,220	1	0.3	75/5/200	3/3	5.2 x 10 x 6.5	Z138-ND	3.65	3.29	2.92	G6K-2G-Y-DC24
	DPDT	3	91	1	0.3	75/75/150	3/3	5.2 x 10 x 6.5	Z3030-ND ***NEW!***	3.84	3.46	3.07	G6KU-2F-Y DC3
8	SPST	3	62.5	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1230-ND	2.28	2.06	1.83	G6L-1F-DC3
	SPST	4.5	140.4	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1231-ND	2.28	2.06	1.83	G6L-1F-DC4.5
	SPST	5	171.1	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1232-ND	2.28	2.06	1.83	G6L-1F-DC5
	SPST	12	979.8	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1233-ND	2.28	2.06	1.83	G6L-1F-DC12
	SPST	24	2,504	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z2040-ND	2.51	2.26	2.01	G6L-1F-DC24
	SPST	3	50	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1226-ND	2.28	2.06	1.83	G6L-1P-DC3
	SPST	4.5	112.5	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1227-ND	2.28	2.06	1.83	G6L-1P-DC4.5
	SPST	5	139	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1228-ND	2.28	2.06	1.83	G6L-1P-DC5
	SPST	12	800	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z1229-ND	2.28	2.06	1.83	G6L-1P-DC12
	SPST	24	2,504	1	0.3	75/10/150	5/5	4.0 x 10.6 x 7	Z2041-ND	2.28	2.06	1.83	G6L-1P-DC24
9	DPDT	3	64.30	1	0.5	75/10/150	3/2	5.2 x 14.1 x 9	Z2856-ND	4.64	4.18	3.72	G6H-2F-DC3
	DPDT	5	178	1	0.5	75/10/120	3/2	5.2 x 14.1 x 9	Z827-ND	4.37	3.94	3.50	G6H-2F-DC5
	DPDT	12	1,028	1	0.5	75/10/120	3/2	5.2 x 14.1 x 9	Z828-ND	4.37	3.94	3.50	G6H-2F-DC12
	DPDT	12	1,028	1	0.5	75/10/200	3/2	5.2 x 14.1 x 9	Z2984TR-ND◊ ***NEW!***		1343.40/500		G6H-2F-TR DC12

† Sealed case ‡ Meets FCC Part 68 standards ◊ Tape and Reel

(Continued)

Fig. 11 — G6S

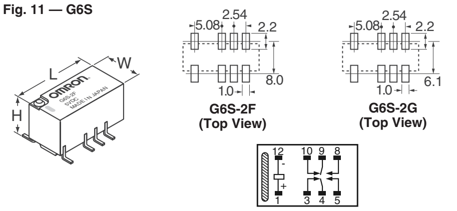

G6S-2F (Top View)

G6S-2G (Top View)

Fig. 12 — G6H

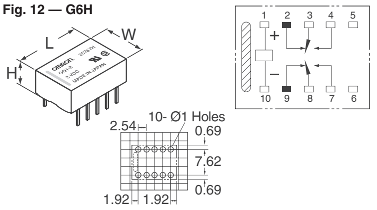

Fig. 13 — G6AK - Latching

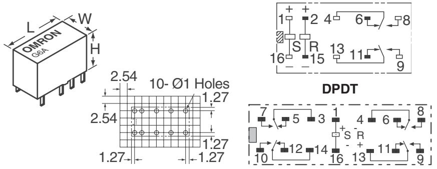

G6AK-234P/274P

DPDT

4PDT

Fig. 14 — G6HK - Latching

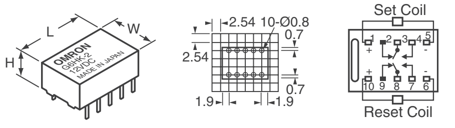

Fig. 15 — G6SK - Latching

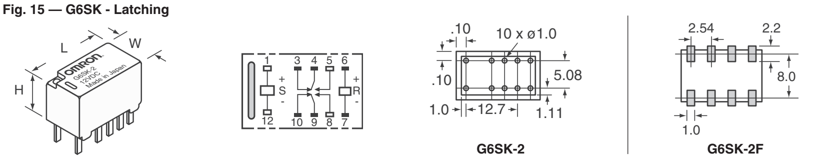

G6SK-2

G6SK-2F

Fig.	Contact Form	Coil		Contact Ratings Resistive (A)		Operating Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each			Omron Part No.
		Voltage (VDC)	Resistance (Ω)	24 VDC	115 VAC					1	25	50	
10	DPDT	4.5	145	2	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2601-ND	3.19	2.87	2.56	G6S-2-DC4.5
	DPDT	5	178	2	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2615-ND	3.19	2.87	2.56	G6S-2 DC5 BY OMR
	DPDT	9	579	2	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2609-ND	3.19	2.87	2.56	G6S-2 DC9 BY OMR
	DPDT	12	1,028	2	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2607-ND	3.19	2.87	2.56	G6S-2 DC12 BY OMR
	DPDT	24	2,880	2	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2608-ND	3.58	3.22	2.87	G6S-2 DC24 BY OMR
11	DPDT	3	64.3	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2187-ND	3.26	2.94	2.61	G6S-2F DC3 BY OMR
	DPDT	3	64.3	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2187TR-ND◊		665.90/400		G6S-2F-TR DC3 BY OMR
	DPDT	4.5	145	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z2857-ND	3.26	2.94	2.61	G6S-2F DC4.5
	DPDT	5	178	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z888-ND	3.26	2.94	2.61	G6S-2F DC5 BY OMR
	DPDT	5	178	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z888TR-ND◊		665.90/400		G6S-2F-TR DC5 BY OMR
	DPDT	12	1,028	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z889-ND	3.26	2.94	2.61	G6S-2F DC12 BY OMR
	DPDT	12	1,028	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z889TR-ND◊		665.90/400		G6S-2F-TR DC12 BY OMR
	DPDT	24	2,880	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z890-ND	3.72	3.35	2.98	G6S-2F DC24 BY OMR
	DPDT	3	64.3	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z3032TR-ND◊ ***NEW!***		905.62/400		G6S-2G-TR DC3 BY OMR
	DPDT	5	178	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z891-ND	3.26	2.94	2.61	G6S-2G DC5 BY OMR
	DPDT	12	1,028	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z892-ND	3.34	3.01	2.68	G6S-2G DC12 BY OMR
	DPDT	24	2,880	2 @ 30VAC	0.5	75/10/200	4/4	9.2 x 14.8 x 7.3	Z893-ND	3.72	3.35	2.98	G6S-2G DC24 BY OMR
12	DPDT	3	64.3	1	0.5	75/10/200	3/2	5.4 x 14.3 x 9.3	Z2540-ND‡	2.98	2.69	2.39	G6H-2-DC3
	DPDT	6	257	1	0.5	75/10/200	3/2	5.4 x 14.3 x 9.3	Z2541-ND‡	2.98	2.69	2.39	G6H-2-DC6
	DPDT	9	579	1	0.5	75/10/200	3/2	5.4 x 14.3 x 9.3	Z2542-ND‡	2.98	2.69	2.39	G6H-2-DC9
	DPDT	12	1,028	1	0.5	75/10/200	3/2	5.4 x 14.3 x 9.3	Z741-ND‡	2.98	2.69	2.39	G6H-2-DC12
Low Signal Relays — Single and Dual Coil Latching Type													
6	DPDT	4.5	204.3	1	0.3	75/75/150	3/3	9.0 x 10.3 x 4.8	Z2143-ND	3.74	3.37	3.00	G6JU-2P-Y-DC4.5
	DPDT	5	245.5	1	0.3	75/75/150	3/3	9.0 x 10.3 x 4.8	Z2144-ND	3.74	3.37	3.00	G6JU-2P-Y-DC5
	DPDT	12	1,329.2	1	0.3	75/75/150	3/3	9.0 x 10.3 x 4.8	Z2145-ND	3.74	3.37	3.00	G6JU-2P-Y-DC12
	DPDT	24	2600	1	0.3	75/75/150	3/3	9.0 x 10.3 x 4.8	Z2146-ND	5.13	4.62	4.11	G6JU-2P-Y-DC24
	DPDT	4.5	204.3	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2147-ND	3.74	3.37	3.00	G6JU-2FL-Y-DC4.5
	DPDT	5	245.5	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2148-ND	3.74	3.37	3.00	G6JU-2FL-Y-DC5
	DPDT	12	1,329.2	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2149-ND	3.74	3.37	3.00	G6JU-2FL-Y-DC12
	DPDT	24	2,600	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2150-ND	5.13	4.62	4.11	G6JU-2FL-Y-DC24
	DPDT	24	4,430	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1214-ND	4.20	3.78	3.36	G6JU-2FL-DC24
	DPDT	4.5	204.3	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2151-ND	3.74	3.37	3.00	G6JU-2FS-Y-DC4.5
	DPDT	24	2,600	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z2154-ND	5.13	4.62	4.11	G6JU-2FS-Y-DC24
	DPDT	24	3,672	1	0.3	75/75/150	3/3	10 x 10.3 x 4.8	Z1222-ND	4.20	3.78	3.36	G6JU-2FS-DC24
13	DPDT	5	139	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z749-ND‡	6.66	5.99	5.33	G6AK-234P-ST-US-DC5
	DPDT	12	800	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z750-ND‡	6.66	5.99	5.33	G6AK-234P-ST-US-DC12
	DPDT	24	3,200	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z751-ND‡	6.66	5.99	5.33	G6AK-234P-ST-US-DC24
	DPDT	5	139	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z2595-ND	6.66	5.99	5.33	G6AK-274P-ST-US-DC5
	DPDT	12	800	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z2593-ND	6.66	5.99	5.33	G6AK-274P-ST-US-DC12
	DPDT	24	3,200	1	0.3	70/70/200	5/5	8.4 x 20.2 x 10.1	Z2594-ND	6.66	5.99	5.33	G6AK-274P-ST-US-DC24
	4PDT	24	3,200	2	0.5	70/70/150	7/5	8.4 x 35.4 x 10.1	Z2981-ND ***NEW!***	11.90	10.72	9.53	G6AK-474P-ST-US-DC24
—	SPDT	5	125	2	0.4	70/70/190	5/5	7.9 x 16 x 9.9	Z833-ND†‡	6.39	5.75	5.11	G6EK-134P-ST-US-DC5
	SPDT	12	720	2	0.4	70/70/190	5/5	7.9 x 16 x 9.9	Z834-ND†‡	6.39	5.75	5.11	G6EK-134P-ST-US-DC12
	SPDT	24	2,880	2	0.4	70/70/190	5/5	7.9 x 16 x 9.9	Z835-ND†‡	6.62	5.96	5.30	G6EK-134P-ST-US-DC24
14	DPDT	3	45	1	0.5	75/75/150	3/2	5.0 x 14 x 9.0	Z2543-ND†	3.62	3.26	2.90	G6HK-2-DC3
	DPDT	6	180	1	0.5	75/75/150	3/2	5.0 x 14 x 9.0	Z2544-ND†	3.62	3.26	2.90	G6HK-2-DC6
	DPDT	9	405	1	0.5	75/75/150	3/2	5.0 x 14 x 9.0	Z2545-ND†	3.62	3.26	2.90	G6HK-2-DC9
	DPDT	12	720	1	0.5	75/75/150	3/2	5.0 x 14 x 9.0	Z966-ND†	3.62	3.26	2.90	G6HK-2-DC12
	DPDT	24	1,920	1	0.5	75/75/150	3/2	5.0 x 14 x 9.0	Z967-ND†	3.89	3.51	3.12	G6HK-2-DC24
15	DPDT	5	125	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z2665-ND	3.61	3.26	2.90	G6SK-2-DC5
	DPDT	12	720	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z2663-ND	3.61	3.26	2.90	G6SK-2-DC12
	DPDT	24	1,920	2	0.5	75/75/140	4/4	9.2 x 14.8 x 7.3	Z2664-ND	4.07	3.67	3.26	G6SK-2-DC24
	DPDT	5	125	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z3021-ND ***NEW!***	3.68	3.32	2.95	G6SK-2-H DC5
	DPDT	5	125	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z2668-ND	3.68	3.32	2.95	G6SK-2F-DC5
	DPDT	12	720	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z2666-ND	3.68	3.32	2.95	G6SK-2F-DC12
	DPDT	12	720	2	0.5	75/75/170	4/4	9.2 x 14.8 x 7.3	Z2666TR-ND◊ ***NEW!***		1021.50/400		G6SK-2F-TR DC12
	DPDT	24	1,920	2	0.5	75/75/140	4/4	9.2 x 14.8 x 7.3	Z2667-ND	4.14	3.74	3.32	G6SK-2F-DC24

† Sealed case ‡ Meets FCC Part 68 standards ◊ Tape and Reel

OMRON High Frequency Relays

Mounting Hole Pattern and Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 — G6Y

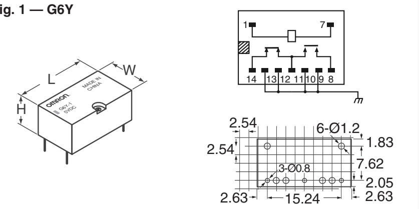

Fig. 2 — G6Z-1PE

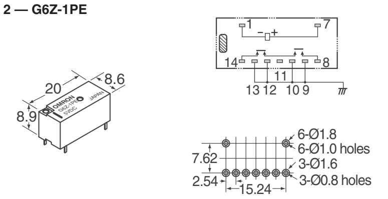

Fig. 3 — G6Z-1P

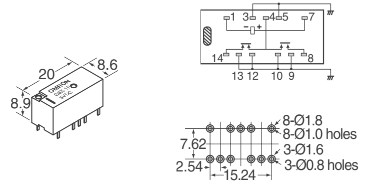

Fig. 4 — G6Z - Surface Mount

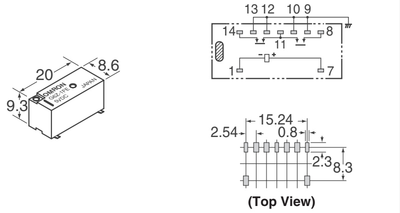

Fig. 5 — G6Z

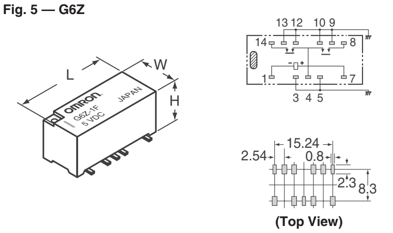

Fig. 6 — G6W-1F

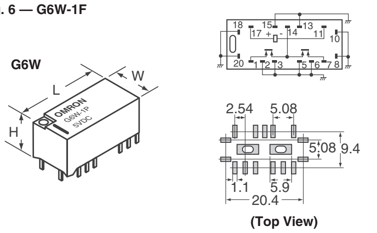

Fig. 7 — G6W-1P

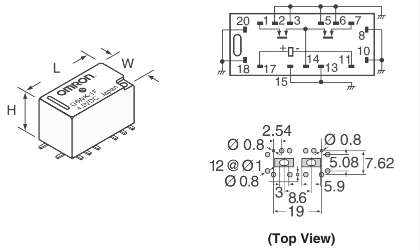

Fig. 8 — G6K

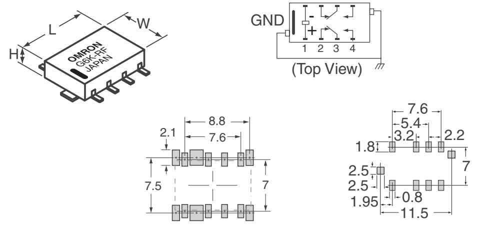

G6K-2F-RF-S (Top View) G6K-2F-RF (Top View)

Fig. 9 — G9YA

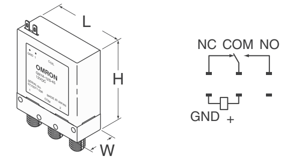

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Operating Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
High Frequency — 900MHz, 1GHz, 2.5GHz, or 2.6GHz													
1	SPDT	5	125	.01 @ 30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z119-ND	4.21	3.79	3.37	G6Y-1-DC5
	SPDT	12	720	.01 @ 30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z120-ND	4.21	3.79	3.37	G6Y-1-DC12
	SPDT	24	2,880	.01 @ 30AC/DC		75/10/150	10/5	9.2 x 20 x 11.7	Z121-ND	4.21	3.79	3.37	G6Y-1-DC24
2	SPDT	5	125	.01 @ 30VAC/VDC		3.75/0.5/7.5	10/10	8.9 x 20 x 8.6	Z1601-ND	5.89	5.30	4.71	G6Z-1PE-DC5
	SPDT	12	720.4	.01 @ 30VAC/VDC		9/1.2/18	10/10	8.9 x 20 x 8.6	Z1602-ND	6.15	5.54	4.93	G6Z-1PE-DC12
	SPDT	24	2,880.1	.01 @ 30VAC/VDC		18/2.4/36	10/10	8.9 x 20 x 8.6	Z1603-ND	6.15	5.54	4.93	G6Z-1PE-DC24
3	SPDT	5	125	.01 @ 30VAC/VDC		3.75/0.5/7.5	10/10	8.9 x 20 x 8.6	Z1598-ND	6.15	5.54	4.93	G6Z-1P-DC5
	SPDT	12	720.4	.01 @ 30VAC/VDC		9/1.2/18	10/10	8.9 x 20 x 8.6	Z1599-ND	6.15	5.54	4.93	G6Z-1P-DC12
	SPDT	24	2,880.1	.01 @ 30VAC/VDC		18/2.4/36	10/10	8.9 x 20 x 8.6	Z1600-ND	6.42	5.78	5.14	G6Z-1P-DC24
4	SPDT	5	125	.01 @ 30VAC/VDC		3.75/0.5/7.5	10/10	9.3 x 20 x 8.6	Z1607-ND	6.42	5.78	5.14	G6Z-1FE-DC5
	SPDT	12	720.4	.01 @ 30VAC/VDC		9/1.2/18	10/10	9.3 x 20 x 8.6	Z1608-ND	6.69	6.03	5.36	G6Z-1FE-DC12
	SPDT	24	2,880.1	.01 @ 30VAC/VDC		18/2.4/36	10/10	9.3 x 20 x 8.6	Z1609-ND	6.69	6.03	5.36	G6Z-1FE-DC24
5	SPDT	3	45	.01 @ 30VAC/VDC		75/10/150	10/10	9.3 x 20 x 8.6	Z2979-ND ***NEW!***	6.69	6.03	5.36	G6Z-1F DC3
	SPDT	5	125	.01 @ 30VAC/VDC		75/10/150	10/10	9.3 x 20 x 8.6	Z1604-ND	6.69	6.03	5.36	G6Z-1F-DC5
	SPDT	12	720.4	.01 @ 30VAC/VDC		75/10/150	10/10	9.3 x 20 x 8.6	Z1605-ND	6.95	6.26	5.57	G6Z-1F-DC12
	SPDT	24	2,880.1	.01 @ 30VAC/VDC		75/10/150	10/10	9.3 x 20 x 8.6	Z1606-ND	6.95	6.26	5.57	G6Z-1F-DC24
6	SPDT	4.5	101	.01 @ 30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2047-ND	182.50	164.26	146.01	G6W-1F-DC4.5
	SPDT	12	720	.01 @ 30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2045-ND	182.50	164.26	146.01	G6W-1F-DC12
	SPDT	24	2,880	.01 @ 30AC/DC		80/10/150	10/10	9.2 x 20 x 9.4	Z2046-ND	182.50	164.26	146.01	G6W-1F-DC24
7	SPDT	12	720	.01 @ 30AC/DC		80/10/150	10/10	8.9 x 20 x 9.4	Z2048-ND	182.50	164.26	146.01	G6W-1P-DC12
8	DPDT	3	91	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2035-ND	21.89	19.71	17.52	G6K-2F-RF-DC3
	DPDT	4.5	194	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2036-ND	21.89	19.71	17.52	G6K-2F-RF-DC4.5
	DPDT	5	237	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2037-ND	21.89	19.71	17.52	G6K-2F-RF-DC5
	DPDT	6	341	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2038-ND	21.89	19.71	17.52	G6K-2F-RF-DC6
	DPDT	9	795	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2039-ND	21.89	19.71	17.52	G6K-2F-RF-DC9
	DPDT	12	1,315	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2033-ND	21.89	19.71	17.52	G6K-2F-RF-DC12
	DPDT	3	91	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2826-ND	17.08	15.38	13.67	G6K-2F-RF-S DC3
	DPDT	4.5	194	1	0.3	80/10/150	3/3	5.4 x 10.3 x 6.9	Z2827-ND	17.08	15.38	13.67	G6K-2F-RF-S DC4.5
	DPDT	5	237	1 @ 30VDC		80/10/150	3/3	5.4 x 10.3 x 6.9	Z2828-ND	17.08	15.38	13.67	G6K-2F-RF-S DC5
	DPDT	6	341	1 @ 30VDC		80/10/150	3/3	5.4 x 10.3 x 6.9	Z2829-ND	17.08	15.38	13.67	G6K-2F-RF-S DC6
	DPDT	9	795	1 @ 30VDC		80/10/150	3/3	5.4 x 10.3 x 6.9	Z2830-ND	17.08	15.38	13.67	G6K-2F-RF-S DC9
	DPDT	12	1,315	1 @ 30VDC		80/10/150	3/3	5.4 x 10.3 x 6.9	Z2831-ND	17.08	15.38	13.67	G6K-2F-RF-S DC12
	DPDT	24	5,220	1 @ 30VDC		80/10/150	3/3	5.4 x 10.3 x 6.9	Z2832-ND	18.25	16.43	14.60	G6K-2F-RF-S DC24
Relay High Frequency 50 Ohm Coaxial													
9	SPDT	4.5	29	120W @ 3GHz		80/10/150	15/15	39 x 34 x 13.2	Z2510-ND	1745.68	1571.12	1396.55	G9YA-12S-45 DC4.5
	SPDT	24	822	120W @ 3GHz		80/10/150	15/15	39 x 34 x 13.2	Z2512-ND	1795.80	1616.23	1436.65	G9YA-12S-45 DC24

PCB Power Relays

Mounting Hole Pattern and Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 — G6C

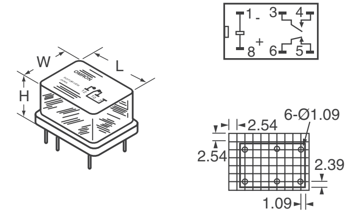

Fig. 2 — G5CA

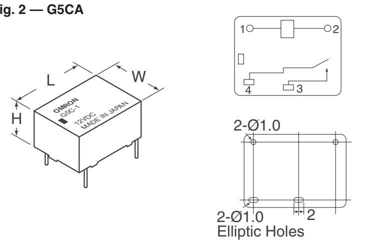

Fig. 3 — G6B-2/G6B-4

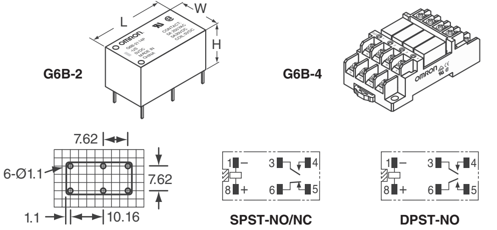

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
	PCB Power Low Profile Relays											
1	SPST-NO/NC	5	125	8	8	Flat Pack Sealed	9.9 x 20 x 15	Z949-ND	7.17	6.45	5.74	G6C-2114P-US-DC5
	SPST-NO/NC	12	720	8	8	Flat Pack Sealed	9.9 x 20 x 15	Z950-ND	7.17	6.45	5.74	G6C-2114P-US-DC12
	SPST-NO/NC	24	2,880	8	8	Flat Pack Sealed	9.9 x 20 x 15	Z951-ND	7.39	6.65	5.92	G6C-2114P-US-DC24
—	PC Mount Relay Socket for G6C Series						15 x 23 x 10.79	Z126-ND	2.34	2.11	1.88	P6C-06P
2	SPST-NO	5	125	10	10	Flat Pack Sealed	11 x 22 x 16	Z2155-ND	4.29	3.87	3.44	G5CA-1A4-DC5
	SPST-NO	12	720	10	10	Flat Pack Sealed	11 x 22 x 16	Z2156-ND	4.29	3.87	3.44	G5CA-1A4-DC12
	SPST-NO	24	2,880	10	10	Flat Pack Sealed	11 x 22 x 16	Z2157-ND	4.43	3.99	3.55	G5CA-1A4-DC24
	SPST-NO	5	125	10	10	Flat Pack Sealed	11 x 22 x 16	Z2158-ND	3.84	3.46	3.08	G5CA-1A-DC5
	SPST-NO	12	720	10	10	Flat Pack Sealed	11 x 22 x 16	Z2159-ND	3.84	3.46	3.08	G5CA-1A-DC12
	SPST-NO	24	2,880	10	10	Flat Pack Sealed	11 x 22 x 16	Z2160-ND	3.87	3.49	3.10	G5CA-1A-DC24
	SPST-NO	5	125	10	15	High Current Type	11 x 22 x 16	Z2161-ND	4.06	3.66	3.26	G5CA-1A-E-DC5
	SPST-NO	12	720	10	15	High Current Type	11 x 22 x 16	Z2162-ND	4.06	3.66	3.26	G5CA-1A-E-DC12
	SPST-NO	24	2,880	10	15	High Current Type	11 x 22 x 16	Z2163-ND	4.06	3.66	3.26	G5CA-1A-E-DC24
—	SPST-NO	12	720	10	15	PCB & QC	11 x 22.1 x 25.1	Z2164-ND	5.47	4.93	4.38	G5CA-1A-TP-E-DC12
	SPST-NO	24	2,880	10	15	Terminals	11 x 22.1 x 25.1	Z2165-ND	5.47	4.93	4.38	G5CA-1A-TP-E-DC24
	PCB Power Relays											
3	DPST-NC	12	480	5	5	Fully Sealed	11 x 20 x 11	Z2851-ND	6.32	5.70	5.06	G6B-2014P-US DC12
	DPST-NC	24	1,920	5	5	Fully Sealed	11 x 20 x 11	Z2852-ND	6.61	5.95	5.29	G6B-2014P-US DC24
	SPST-NO/NC	5	83.30	5	5	Fully Sealed	11 x 20 x 11	Z2854-ND	6.64	5.98	5.32	G6B-2114P-1-US DC5
	SPST-NO/NC	12	480	5	5	Fully Sealed	11 x 20 x 11	Z2853-ND	6.64	5.98	5.32	G6B-2114P-1-US DC12
	SPST-NO	5	83	5	5	Fully Sealed	11 x 20 x 11	Z946-ND	6.32	5.70	5.06	G6B-2114P-US-DC5
	SPST-NC	6	120	5	5	Fully Sealed	11 x 20 x 11	Z755-ND	6.32	5.70	5.06	G6B-2114P-US-DC6
	SPST-NO/NC	12	480	5	5	Fully Sealed	11 x 20 x 11	Z756-ND	6.32	5.70	5.06	G6B-2114P-US-DC12
	SPST-NO/NC	24	1,920	5	5	Fully Sealed	11 x 20 x 11	Z757-ND	6.61	5.95	5.29	G6B-2114P-US-DC24
	DPST-NO	5	83	5	5	Fully Sealed	11 x 20 x 11	Z947-ND	6.32	5.70	5.06	G6B-2214P-US-DC5
	DPST-NO	6	120	5	5	Fully Sealed	11 x 20 x 11	Z758-ND	6.32	5.70	5.06	G6B-2214P-US-DC6
	DPST-NO	12	480	5	5	Fully Sealed	11 x 20 x 11	Z759-ND	6.32	5.70	5.06	G6B-2214P-US-DC12
	DPST-NO	24	1,920	5	5	Fully Sealed	11 x 20 x 11	Z760-ND	6.61	5.95	5.29	G6B-2214P-US-DC24
	DPST-NO	48	7,680	5	5	Fully Sealed	11 x 20 x 11	Z2855-ND	8.62	7.76	6.90	G6B-2214P-US DC48
—	PC Mount Relay Socket for G6B Series SPST						10.16 x 23 x 9.9	Z993-ND	1.87	1.69	1.50	P6B-04P
	PC Mount Relay Socket for G6B Series DPST						10.16 x 23 x 9.9	Z994-ND	2.41	2.17	1.93	P6B-26P
3	4 Position Relay Terminal Board - Includes Four G6B Relays, SPST, 12VDC Coils							Z2982-ND ***NEW!***	111.04	99.94	88.83	G6B-4BND DC12
	4 Position Relay Terminal Board - Includes Four G6B Relays, SPST, 24VDC Coils							Z2983-ND ***NEW!***	111.04	99.94	88.83	G6B-4BND-DC24
4	SPST-NO	12	720	5	5	Fully Sealed	10 x 20 x 10	Z2849-ND	5.35	4.82	4.29	G6B-1114P-1-US-DC12
	SPST-NO	24	2,880	5	5	Fully Sealed	10 x 20 x 10	Z2850-ND	5.49	4.95	4.40	G6B-1114P-1-US-DC24
	SPST-NO	5	125	5	5	Semi Sealed	10 x 20 x 10	Z945-ND	5.18	4.66	4.15	G6B-1114P-US-DC5
	SPST-NO	6	180	5	5	Semi Sealed	10 x 20 x 10	Z752-ND	5.18	4.66	4.15	G6B-1114P-US-DC6
	SPST-NO	12	720	5	5	Semi Sealed	10 x 20 x 10	Z753-ND	5.18	4.66	4.15	G6B-1114P-US-DC12
	SPST-NO	24	2,880	5	5	Semi Sealed	10 x 20 x 10	Z754-ND	5.32	4.79	4.26	G6B-1114P-US-DC24
	SPST-NO	5	125	8	8	Semi Sealed	12.5 x 20.2 x 10	Z712-ND	6.18	5.57	4.95	G6B-1174P-US-DC5
	SPST-NO	12	720	8	8	Semi Sealed	12.5 x 20.2 x 10	Z713-ND	6.18	5.57	4.95	G6B-1174P-US-DC12
	SPST-NO	24	2,880	8	8	Semi Sealed	12.5 x 20.2 x 10	Z714-ND	6.40	5.76	5.12	G6B-1174P-US-DC24
	SPST-NO	24	2,880	8	8	VDE Approved	12.5 x 20.2 x 10	Z2874-ND	8.91	8.02	7.13	G6B-1174P-FD-US DC24
	SPST-NO	5	125	5	5	1 Coil Latching	10 x 20 x 10	Z2598-ND	6.51	5.86	5.21	G6BK-1114P-US-DC5
	SPST-NO	12	720	5	5	1 Coil Latching	10 x 20 x 10	Z2596-ND	6.75	6.08	5.41	G6BK-1114P-US-DC12
	SPST-NO	24	2,880	5	5	1 Coil Latching	10 x 20 x 10	Z2597-ND	8.45	7.61	6.77	G6BK-1114P-US-DC24
5	SPST-NO	5	125	10	10	Fully Sealed	10.2 x 20 x 15	Z715-ND	6.22	5.60	4.98	G6C-1114P-US-DC5
	SPST-NO	12	720	10	10	Fully Sealed	10.2 x 20 x 15	Z716-ND	6.22	5.60	4.98	G6C-1114P-US-DC12
	SPST-NO	24	2,880	10	10	Fully Sealed	10.2 x 20 x 15	Z948-ND	6.41	5.77	5.13	G6C-1114P-US-DC24
—	SPST-NO	5	125	5	5	Fully Sealed	12.5 x 17.5 x 6.5	Z2243-ND	5.51	4.96	4.41	G6D-1A-ASI-DC5
	SPST-NO	12	720	5	5	Fully Sealed	12.5 x 17.5 x 6.5	Z2242-ND	5.51	4.96	4.41	G6D-1A-ASI-DC12
	SPST-NO	24	2,880	5	5	Fully Sealed	12.5 x 17.5 x 6.5	Z2244-ND	5.92	5.33	4.74	G6D-1A-ASI-DC24
—	PC Mount Relay Socket for G6D-ASI Series SPST-NO						10.8 x 19.7 x 6.9	Z1684-ND	3.16	2.85	2.53	P6D-04P
	PCB Power Slim Type Relays											
6	SPST	12	1,200	3	3	Fully Sealed	17.5 x 20 x 5	Z2042-ND	5.11	4.60	4.09	G6M-1A-DC12
	SPST	24	4,800	3	3	Fully Sealed	17.5 x 20 x 5	Z2043-ND	5.51	4.96	4.41	G6M-1A-DC24
	SPST	5	208	3	3	Fully Sealed	17.5 x 20 x 5	Z2044-ND	5.11	4.60	4.09	G6M-1A-DC5
7	SPST-NO	5	139	5	5	Standard Sensitivity	12.5 x 20.3 x 5.08	Z2317-ND	5.68	5.12	4.55	G6DS-1A-DC5
	SPST-NO	12	800	5	5	Standard Sensitivity	12.5 x 20.3 x 5.08	Z2318-ND	5.68	5.12	4.55	G6DS-1A-DC12
	SPST-NO	24	3,200	5	5	Standard Sensitivity	12.5 x 20.3 x 5.08	Z2319-ND	6.20	5.58	4.96	G6DS-1A-DC24
	SPST-NO	5	208	5	5	High Sensitivity	12.5 x 20.3 x 5.08	Z2320-ND	5.93	5.34	4.75	G6DS-1A-H-DC5
	SPST-NO	12	1,200	5	5	High Sensitivity	12.5 x 20.3 x 5.08	Z2321-ND	5.84	5.26	4.68	G6DS-1A-H-DC12
	SPST-NO	24	4,800	5	5	High Sensitivity	12.5 x 20.3 x 5.08	Z2322-ND	6.36	5.73	5.10	G6DS-1A-H-DC24
—	SPST-NO	5	125	3	3	Standard Sensitivity	12.5 x 17.5 x 6.5	Z1674-ND	1.65	1.49	1.32	G5NB-1A-DC5
	SPST-NO	12	720	3	3	Standard Sensitivity	12.5 x 17.5 x 6.5	Z1675-ND	1.65	1.49	1.32	G5NB-1A-DC12
8	SPST-NO	12	720	5	10	Unsealed	15.8 x 20.3 x 10.3	Z219-ND	2.55	2.30	2.04	G5Q-1A-DC12
	SPST-NO	24	2,880	5	10	Unsealed	15.8 x 20.3 x 10.3	Z220-ND	2.55	2.30	2.04	G5Q-1A-DC24
	SPST-NO	12	720	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z223-ND	2.73	2.46	2.19	G5Q-1A4-DC12
	SPST-NO	18	1,080	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z2978-ND ***NEW!***	2.73	2.46	2.19	G5Q-1A4 DC18
	SPST-NO	24	2,880	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z224-ND	2.73	2.46	2.19	G5Q-1A4-DC24
	SPDT	12	360	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z221-ND	2.67	2.40	2.14	G5Q-1-DC12
	SPDT	24	1,440	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z222-ND	2.67	2.40	2.14	G5Q-1-DC24
	SPDT	5	63	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z2929-ND	2.84	2.56	2.28	G5Q-14 DC5
	SPDT	12	360	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z225-ND	2.84	2.56	2.28	G5Q-14-DC12
	SPDT	24	2,880	5	10	Fully Sealed	15.8 x 20.3 x 10.3	Z226-ND	2.84	2.56	2.28	G5Q-14-DC24
9	SPDT	12	360	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z2536-ND	1.70	1.53	1.36	G5SB-1-DC12
	SPDT	24	1,440	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z2537-ND	1.82	1.64	1.46	G5SB-1-DC24
	SPDT	5	63	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z2514-ND	1.70	1.53	1.36	G5SB-1A4-DC5
	SPDT	12	360	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z2515-ND	1.70	1.53	1.36	G5SB-1A4-DC12
	SPDT	24	1,440	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z2516-ND	1.82	1.64	1.46	G5SB-1A4-DC24
	SPDT	5	63	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z1640-ND	1.70	1.53	1.36	G5SB-14-DC5
	SPDT	9	202	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z1641-ND	1.70	1.53	1.36	G5SB-14-DC9
	SPDT	12	360	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z1642-ND	1.70	1.53	1.36	G5SB-14-DC12
	SPDT	24	1,440	5	5	Fully Sealed	15.8 x 20.3 x 10.3	Z1643-ND	1.82	1.64	1.46	G5SB-14-DC24
	PCB Mount Power Relays with QC Terminals											
10	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z952-ND	7.01	6.31	5.61	G4A-1A-E-DC12BYOMZ

Fig. 4 — G6B-1 and G6BK-1

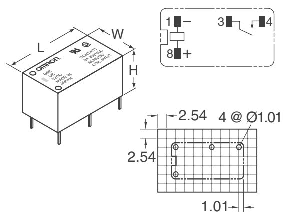

Fig. 5 — G6C

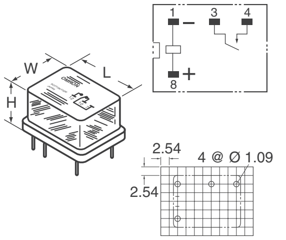

Fig. 6 — G6M

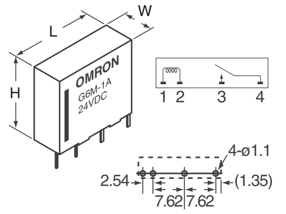

Fig. 7 — G6DS

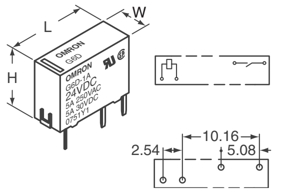

Fig. 8 — G5Q

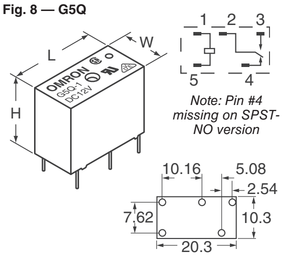

Note: Pin #4 missing on SPST-NO version

(G5Q-1 Shown)

I

(Continued)

PCB Power Relays *(Cont.)*

Fig. 9 — G5SB

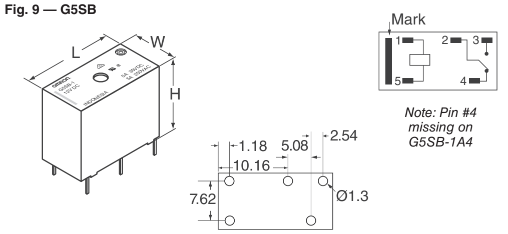

Note: Pin #4 missing on G5SB-1A4

Fig. 10 — G4A

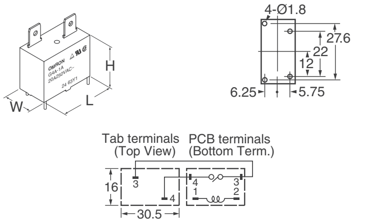

Fig. 11 — G4B

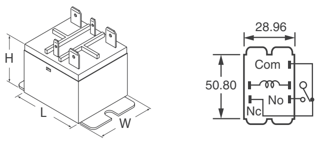

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
11	SPDT	120VAC	6,500	15	15	QC Terminal	29 x 50 x 29	Z959-ND	14.83	13.36	11.87	G4B-112T1CUS-AC120
	SPDT	240VAC	6,500	15	15	QC Terminal	29 x 50 x 29	Z2714-ND	19.89	17.91	15.92	G4B-112T1-C-US-AC240
	SPST-NO	120VAC	6,500	15	15	QC Terminal	29 x 50 x 29	Z198-ND	13.93	12.54	11.15	G4B-112TUS-AC120
						G2R-S Socket Mount Relays						
12	SPDT	6	69	10	5	Standard Plug-In	35.5 x 29 x 13	Z2224-ND	5.63	5.07	4.51	G2R-1-S-DC6(S)
	SPDT	12	275	10	5	Standard Plug-In	35.5 x 29 x 13	Z1632-ND	5.63	5.07	4.51	G2R-1-S-DC12S
	SPDT	24	1,100	10	5	Standard Plug-In	35.5 x 29 x 13	Z1633-ND	5.63	5.07	4.51	G2R-1-S-DC24S
	SPDT	48	4,220	10	5	Standard Plug-In	35.5 x 29 x 13	Z2230-ND	5.63	5.07	4.51	G2R-1-S-DC48(S)
	SPDT	24VAC	260	10	5	Standard Plug-In	35.5 x 29 x 13	Z1634-ND	7.49	6.75	6.00	G2R-1-S-AC24S
	SPDT	120VAC	6,500	10	5	Standard Plug-In	35.5 x 29 x 13	Z1635-ND	8.21	7.40	6.58	G2R-1-S-AC120S
	SPDT	240VAC	30.3K	10	5	Standard Plug-In	35.5 x 29 x 13	Z2227-ND	13.61	12.25	10.89	G2R-1-S-AC240(S)
	SPDT	12	275	10	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2232-ND	9.19	8.28	7.36	G2R-1-SN-DC12(S)
	SPDT	24	1,113	10	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2234-ND	9.19	8.28	7.36	G2R-1-SN-DC24(S)
	SPDT	24VAC	253	10	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2235-ND	23.14	20.83	18.52	G2R-1-SN-AC24(S)
	SPDT	120VAC	7,286	10	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2236-ND	12.11	10.91	9.70	G2R-1-SN-AC120(S)
	SPDT	12	278	10	5	Plug-In with LED and Diode	35.5 x 29 x 13	Z2952-ND ***NEW!***	11.79	10.62	9.44	G2R-1-SND-DC12(S)
	SPDT	24	1,113	10	5	Plug-In with LED and Diode	35.5 x 29 x 13	Z2951-ND ***NEW!***	10.59	9.54	8.48	G2R-1-SND-DC24(S)
	DPDT	12	275	5	5	Standard Plug-In	35.5 x 29 x 13	Z2869-ND	4.23	3.81	3.39	G2R-2-DC12
	DPDT	24	1,100	5	5	Standard Plug-In	35.5 x 29 x 13	Z2870-ND	4.23	3.81	3.39	G2R-2-DC24
	DPDT	6	69	5	5	Standard Plug-In	35.5 x 29 x 13	Z2225-ND	6.56	5.91	5.26	G2R-2-S-DC6(S)
	DPDT	12	275	5	5	Standard Plug-In	35.5 x 29 x 13	Z1636-ND	6.44	5.80	5.16	G2R-2-S-DC12S
	DPDT	24	1,100	5	5	Standard Plug-In	35.5 x 29 x 13	Z1637-ND	6.44	5.80	5.16	G2R-2-S-DC24S
	DPDT	48	4,220	5	5	Standard Plug-In	35.5 x 29 x 13	Z2231-ND	15.22	13.70	12.18	G2R-2-S-DC48(S)
	DPDT	24VAC	260	5	5	Standard Plug-In	35.5 x 29 x 13	Z1638-ND	8.34	7.51	6.68	G2R-2-S-AC24S
	DPDT	120VAC	6,500	5	5	Standard Plug-In	35.5 x 29 x 13	Z1639-ND	8.99	8.09	7.19	G2R-2-S-AC120S
	DPDT	6	69	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2238-ND	27.14	24.43	21.72	G2R-2-SN-DC6(S)
	DPDT	12	278	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2237-ND	12.63	11.37	10.11	G2R-2-SN-DC12(S)
	DPDT	24	1,113	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2239-ND	11.49	10.35	9.20	G2R-2-SN-DC24(S)
	DPDT	24VAC	253	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2240-ND	12.20	10.98	9.76	G2R-2-SN-AC24(S)
	DPDT	120VAC	7,286	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2241-ND	13.09	11.78	10.48	G2R-2-SN-AC120(S)
	DPDT	24	1,113	5	5	Plug-In with LED Diode	35.5 x 29 x 13	Z2866-ND	12.85	11.57	10.28	G2R-2-SND DC24 (S)
—	Track Mounted Socket, Screw Term for G2R-1-S Series							Z2285-ND	8.22	7.40	6.58	P2RF-05
	Track Mounted Socket “Fingersafe” Screw Term for G2R-1-S Series							Z855-ND	4.84	4.36	3.87	P2RF-05-E
	Track Mounted Socket, Screw Term for G2R-2-S Series							Z2286-ND	9.22	8.30	7.38	P2RF-08
	Track Mounted Socket “Fingersafe” Screw Term for G2R-2-S Series							Z207-ND	8.69	7.83	6.96	P2RF-08-E
	PC Mount Relay Socket for G2R-1-S Series							Z995-ND	2.38	2.14	1.91	P2R-05P
	Back Connecting Solder Socket for G2R-1-S Series							Z2283-ND	2.38	2.14	1.91	P2R-05A
	Back Connecting PC Mount Socket for G2R-2-S Series							Z2605-ND	2.38	2.14	1.91	P2R-08P
	Back Connecting Solder Socket for G2R-2-S Series							Z2284-ND	2.38	2.14	1.91	P2R-08A
	Production Screwless Din Rail Socket (Wire Trap Style) for G2R-1-S							Z2058-ND	5.70	5.14	4.57	PTRF-05-S
	Production Screwless Din Rail Socket (Wire Trap Style) for G2R-2-S							Z2059-ND	9.56	8.61	7.65	PTRF-08-S
						G2RV DIN Rail Ultra Slim Relays						
13	SPDT	110VAC	7.5	6	6	Relay and DIN Socket with Screw Terminals	—	Z2530-ND	44.43	39.99	35.55	G2RV-SL700-AC110
	SPDT	230VAC	7.9	6	6		—	Z2531-ND	44.43	39.99	35.55	G2RV-SL700-AC230
	SPDT	48VAC/DC	5.2	6	6		—	Z2532-ND	39.14	35.23	31.32	G2RV-SL700-AC/DC48
	SPDT	24VAC	13.3	6	6		—	Z2533-ND	36.49	32.85	29.20	G2RV-SL700-AC/DC24
	SPDT	12	27.2	6	6		—	Z2534-ND	36.49	32.85	29.20	G2RV-SL700-DC12DC11
	SPDT	24	13.3	6	6	Relay and DIN Socket with Push-in Terminals	—	Z2535-ND	36.49	32.85	29.20	G2RV-SL700-DC24DC21
	SPDT	110VAC	7.5	6	6		—	Z2554-ND	45.98	41.38	36.79	G2RV-SL500-AC110
	SPDT	230VAC	7.9	6	6		—	Z2555-ND	45.98	41.38	36.79	G2RV-SL500-AC230
	SPDT	48VAC/DC	5.2	6	6		—	Z2556-ND	41.88	37.70	33.51	G2RV-SL500-AC/DC48
	SPDT	24VAC	13	6	6		—	Z2557-ND	38.45	34.61	30.76	G2RV-SL500-AC/DC24
	SPDT	12	27.2	6	6		—	Z2558-ND	37.49	33.74	29.99	G2RV-SL500-DC12DC11
	SPDT	24	5.2	6	6		—	Z2559-ND	37.49	33.74	29.99	G2RV-SL500-DC24DC21
	SPDT	12	27.2	6	6	Relay only; no Socket	29.5 x 30.5 x 5.2	Z2527-ND	10.42	9.38	8.34	G2RV-1-S-DC11
	SPDT	24	13.3	6	6	Relay only; no Socket	29.5 x 30.5 x 5.2	Z2528-ND	10.42	9.38	8.34	G2RV-1-S-DC21
	SPDT	48VAC/DC	5.2	6	6	Relay only; no Socket	29.5 x 30.5 x 5.2	Z2529-ND	11.08	9.98	8.87	G2RV-1-S-DC48
—	Cross Bar for G2RV Sockets, Red, 2 poles for Jumpering Power							Z2671-ND	2.75	2.48	2.20	P2RVM-020R
	Cross Bar for G2RV Sockets, Red, 3 poles for Jumpering Power							Z2672-ND	3.80	3.42	3.04	P2RVM-030R
	Cross Bar for G2RV Sockets, Red, 4 poles for Jumpering Power							Z2673-ND	5.06	4.56	4.05	P2RVM-040R
	Cross Bar for G2RV Sockets, Black, 2 poles for Jumpering Grounds							Z2674-ND	2.75	2.48	2.20	P2RVM-020B
	Cross Bar for G2RV Sockets, Black, 3 poles for Jumpering Grounds							Z2675-ND	3.80	3.42	3.04	P2RVM-030B
	Cross Bar for G2RV Sockets, Black, 4 poles for Jumpering Grounds							Z2676-ND	5.06	4.56	4.05	P2RVM-040B
	PLC Interface for G2RV Sockets for PC Control							Z2669-ND	179.64	—	—	P2RVC-8-O-F
	Separator Plate for G2RV DIN Mount Sockets							Z2670-ND	9.91	8.92	7.93	P2RV-S
	Adhesive Label Sheet for G2RV for Socket Marking							Z2699-ND	19.38	17.45	15.51	R99-16 FOR G2RV
						PCB Mount Power Relays						
14	SPDT	120VAC	6,500	10	10	Semi-Sealed	25.5 x 29 x 13	Z2838-ND	6.88	6.20	5.51	G2R-1-AC120
	SPDT	12	275	10	10	Semi-Sealed	25.5 x 29 x 13	Z2839-ND	3.58	3.23	2.87	G2R-1-DC12
	SPDT	24	1,100	10	10	Semi-Sealed	25.5 x 29 x 13	Z2840-ND	3.58	3.23	2.87	G2R-1-DC24
	SPST-NO	5	47	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z2323-ND	4.13	3.72	3.31	G2R-1A4-DC5
	SPST-NO	12	360	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z2324-ND	4.13	3.72	3.31	G2R-1A4-DC12
	SPST-NO	24	1,440	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z2325-ND	4.13	3.72	3.31	G2R-1A4-DC24
	SPST-NO	120VAC	6,500	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z2327-ND	7.61	6.85	6.09	G2R-1A4-AC120
	SPST-NO	12	360	12	12	Low Profile, Sealed	15.7 x 29 x 12.7	Z2923-ND	2.32	2.09	1.86	G2RL-1A4 DC12
	SPST-NO	5	62.5	12	12	Low Profile G2R; Flux Sealed	15.7 x 29 x 12.7	Z139-ND	1.87	1.69	1.50	G2RL-1A-DC5
	SPST-NO	12	360	12	12	Low Profile G2R; Flux Sealed	15.7 x 29 x 12.7	Z140-ND	1.87	1.69	1.50	G2RL-1A-DC12
	SPST-NO	24	1,440	12	12	Low Profile G2R; Flux Sealed	15.7 x 29 x 12.7	Z141-ND	1.87	1.69	1.50	G2RL-1A-DC24
	SPST-NO	5	62.5	12	12	Low Profile G2R; Class F Ins.	15.7 x 29 x 12.7	Z2517-ND	2.01	1.81	1.61	G2RL-1A-CF-DC5
	SPST-NO	12	360	12	12	Low Profile G2R; Class F Ins.	15.7 x 29 x 12.7	Z2518-ND	2.01	1.81	1.61	G2RL-1A-CF-DC12
	SPST-NO	24	1,440	16	16	High Capacity, Class F, Flux Sealed	15.7 x 29 x 12.7	Z2844-ND	2.35	2.12	1.89	G2RL-1A-E-CF DC24
	SPST-NO	12	360	16	16		15.7 x 29 x 12.7	Z2924-ND	2.22	2.00	1.78	G2RL-1A-E DC12
	SPST-NO	24	1,440	16	16		15.7 x 29 x 12.7	Z2845-ND	2.22	2.00	1.78	G2RL-1A-E DC24
	SPDT	5	100	10	10	Low Profile G2R; High Sensitivity Coil	15.7 x 29 x 12.7	Z2821-ND	3.12	2.82	2.50	G2RL-1-H DC5
	SPDT	12	576	10	10		15.7 x 29 x 12.7	Z2822-ND	3.12	2.82	2.50	G2RL-1-H DC12
	SPDT	24	2304	10	10		15.7 x 29 x 12.7	Z2823-ND	3.12	2.82	2.50	G2RL-1-H DC24
	SPDT	5	47	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z743-ND	4.21	3.80	3.37	G2R-14-DC5

Fig. 12 — G2R-S

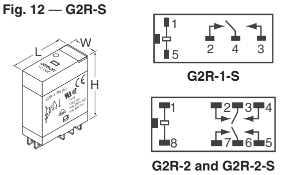

G2R-1-S

G2R-2 and G2R-2-S

Fig. 13 — G2RV

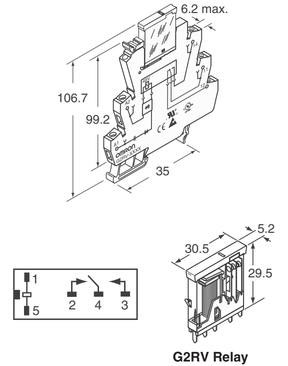

G2RV Relay without Socket

Fig. 14 — G2R/RL

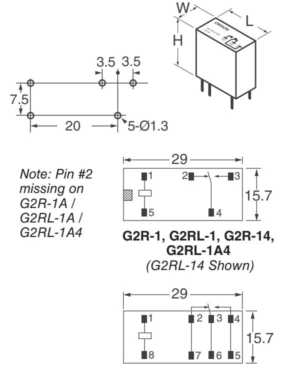

Note: Pin #2 missing on G2R-1A / G2RL-1A / G2RL-1A4

G2R-1, G2RL-1, G2R-14, G2RL-1A4
(G2RL-14 Shown)

G2RL-1-E
(G2RL-14-E Shown)

Fig. 15 — G2RL

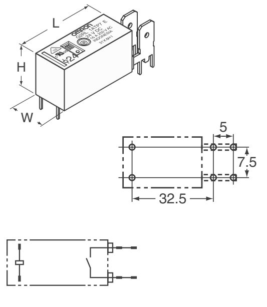

(Continued)

Fig. 16 — G2RG-2/G2RL-2/G2R-2

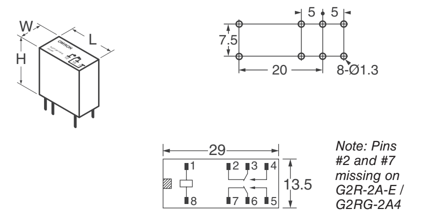

Note: Pins #2 and #7 missing on G2R-2A-E / G2RG-2A4

Fig. 17 — G2R-1A-E

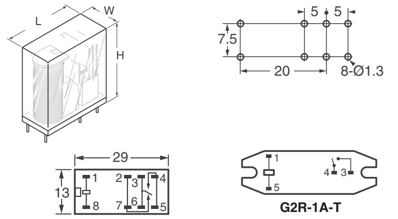

Fig. 18 — G5RL

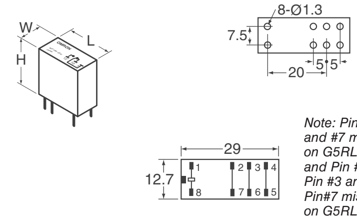

Note: Pin #2 and #7 missing on G5RL-1A and Pin #2, Pin #3 and Pin#7 missing on G5RL-1A-LN

Fig.	Contact Form	Coil		Contact Ratings Resistive (A)		Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each			Omron Part No.
		Volt. (VDC)	Res. (Ω)	24 VDC	115 VAC				1	25	50	
14	SPDT	12	275	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z744-ND	4.23	3.81	3.39	G2R-14-DC12
	SPDT	24	1,100	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z745-ND	4.19	3.78	3.36	G2R-14-DC24
	SPDT	24VAC	260	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z843-ND	7.11	6.41	5.69	G2R-14-AC24
	SPDT	120VAC	6,500	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z844-ND	7.81	7.03	6.25	G2R-14-AC120
	SPDT	5	62.5	12	12	Low Profile G2R	15.7 x 29 x 12.7	Z142-ND	2.42	2.19	1.94	G2RL-14-DC5
	SPDT	12	360	12	12	Low Profile G2R	15.7 x 29 x 12.7	Z143-ND	2.42	2.19	1.94	G2RL-14-DC12
	SPDT	24	1,440	12	12	Low Profile G2R	15.7 x 29 x 12.7	Z144-ND	2.42	2.19	1.94	G2RL-14-DC24
	SPDT	48	5,358	12	12	Low Profile G2R	15.7 x 29 x 12.7	Z145-ND	2.70	2.44	2.17	G2RL-14-DC48
	SPDT	5	62.5	16	16	High Capacity, Class F, Fully Sealed	15.7 x 29 x 12.7	Z2922-ND	2.84	2.56	2.28	G2RL-14-E DC5
	SPDT	12	360	16	16		15.7 x 29 x 12.7	Z2920-ND	2.84	2.56	2.28	G2RL-14-E DC12
	SPDT	24	1,440	16	16		15.7 x 29 x 12.7	Z2921-ND	2.84	2.56	2.28	G2RL-14-E DC24
	SPDT	12	360	16	16		15.7 x 29 x 12.7	Z2841-ND	3.01	2.72	2.42	G2RL-14-E-CF DC12
	SPDT	24	1,440	16	16		15.7 x 29 x 12.7	Z2842-ND	3.01	2.72	2.42	G2RL-14-E-CF DC24
	SPDT	48	5,358	16	16		15.7 x 29 x 12.7	Z2843-ND	3.29	2.97	2.64	G2RL-14-E-CF DC48
	SPDT	24	1,440	16	16		15.7 x 29 x 12.7	Z2925-ND	2.56	2.31	2.05	G2RL-1-E-CF DC24
	SPDT	5	62.5	16	16	High Capacity Low Profile G2R; Flux Sealed	15.7 x 29 x 12.7	Z2824-ND	2.42	2.19	1.94	G2RL-1-E DC5
	SPDT	12	360	16	16		15.7 x 29 x 12.7	Z2834-ND	2.42	2.19	1.94	G2RL-1-E DC12
	SPDT	24	1,440	16	16		15.7 x 29 x 12.7	Z2835-ND	2.42	2.19	1.94	G2RL-1-E DC24
	SPDT	48	5,358	16	16		15.7 x 29 x 12.7	Z2825-ND	2.70	2.44	2.17	G2RL-1-E DC48
	SPST-NO	5	62.5	12	12	Fully Sealed	15.7 x 29 x 12.7	Z3026-ND ***NEW!***	2.32	2.09	1.86	G2RL-1A4 DC5
	SPST-NO	9	270	12	12	Fully Sealed	15.7 x 29 x 12.7	Z3027-ND ***NEW!***	2.32	2.09	1.86	G2RL-1A4 DC9
	SPST-NO	24	1,440	12	12	Fully Sealed	15.7 x 29 x 12.7	Z3025-ND ***NEW!***	2.32	2.09	1.86	G2RL-1A4 DC24
15	SPST-NO	12	360	16	16	PCB w/Quick Connect Term.	15.9 x 29.6 x 12.6	Z2550-ND	5.49	4.95	4.40	G2RL-1ATP5-E-DC12
	SPST-NO	24	1,440	16	16	PCB w/Quick Connect Term.	15.9 x 29.6 x 12.6	Z2551-ND	5.49	4.95	4.40	G2RL-1ATP5-E-DC24
	SPST-NO	12	360	16	16	PCB w/Quick Connect Term.	15.9 x 29.6 x 12.6	Z2552-ND	5.43	4.89	4.35	G2RL-1ATP7-E-DC12
	SPST-NO	24	1,440	16	16	PCB w/Quick Connect Term.	15.9 x 29.6 x 12.6	Z2553-ND	5.43	4.89	4.35	G2RL-1ATP7-E-DC24
16	DPST-NO	12	180	8	8	UPS Approved G2R; Sealed	25.5 x 29 x 13.5	Z2355-ND	6.34	5.71	5.07	G2RG-2A4-DC12
	DPST-NO	24	720	8	8	UPS Approved G2R; Sealed	25.5 x 29 x 13.5	Z2513-ND	6.34	5.71	5.07	G2RG-2A4-DC24
	DPDT	5	62.5	8	8	Low Profile G2R	15.7 x 29 x 12.7	Z146-ND	3.22	2.90	2.58	G2RL-24-DC5
	DPDT	12	360	8	8	Low Profile G2R	15.7 x 29 x 12.7	Z147-ND	3.22	2.90	2.58	G2RL-24-DC12
	DPDT	24	1,440	8	8	Low Profile G2R	15.7 x 29 x 12.7	Z148-ND	3.22	2.90	2.58	G2RL-24-DC24
	DPDT	48	5,358	8	8	Low Profile G2R	15.7 x 29 x 12.7	Z149-ND	3.53	3.18	2.83	G2RL-24-DC48
	DPDT	12	360	8	8	Unsealed	15.7 x 29 x 12.7	Z2926-ND	2.71	2.44	2.17	G2RL-2 DC12
	DPDT	5	47	5	5	Standard Sealed	25.5 x 29 x 13	Z746-ND	4.85	4.37	3.89	G2R-24-DC5
	DPDT	12	275	5	5	Standard Sealed	25.5 x 29 x 13	Z747-ND	4.85	4.37	3.89	G2R-24-DC12
	DPDT	24	1,100	5	5	Standard Sealed	25.5 x 29 x 13	Z748-ND	4.85	4.37	3.89	G2R-24-DC24
	DPDT	24VAC	260	5	5	Standard Sealed	25.5 x 29 x 13	Z845-ND	8.12	7.31	6.50	G2R-24-AC24
	DPDT	120VAC	6,500	5	5	Standard Sealed	25.5 x 29 x 13	Z846-ND	8.86	7.97	7.09	G2R-24-AC120
	DPDT	12	400	4	4	Standard Sealed	25.5 x 29 x 13	Z2919-ND	6.18	5.57	4.95	G2R-24-H-DC12
17	SPST-NO	5	47	16	16	High Capacity, Unsealed	25.5 x 29 x 13	Z2306-ND	3.90	3.51	3.12	G2R-1A-E-DC5
	SPST-NO	12	360	16	16	High Capacity, Unsealed	25.5 x 29 x 13	Z2307-ND	3.90	3.51	3.12	G2R-1A-E-DC12
	SPST-NO	24	1,440	16	16	High Capacity, Unsealed	25.5 x 29 x 13	Z2308-ND	3.90	3.51	3.12	G2R-1A-E-DC24
	SPST-NO	48	5,358	16	16	High Capacity, Unsealed	25.5 x 29 x 13	Z2309-ND	5.35	4.82	4.28	G2R-1A-E-DC48
	SPST-NO	120VAC	6,500	16	16	High Capacity, Unsealed	25.5 x 29 x 13	Z2310-ND	7.61	6.85	6.09	G2R-1A-E-AC120
	SPST-NO	12	275	16	16	QC with Mounting Brackets	29.5 x 30.5 x 14	Z2918-ND	5.15	4.64	4.12	G2R-1A-T DC12
	SPDT	5	47	16	16	High Capacity Unsealed	25.5 x 29 x 13	Z847-ND	4.30	3.88	3.45	G2R-1-E-DC5
	SPDT	12	275	16	16	High Capacity Unsealed	25.5 x 29 x 13	Z848-ND	4.30	3.88	3.45	G2R-1-E-DC12
	SPDT	24	1,100	16	16	High Capacity Unsealed	25.5 x 29 x 13	Z849-ND	4.30	3.88	3.45	G2R-1-E-DC24
	DPDT	12	360	10	10	2 Coil Latching	25.5 x 29 x 13	Z2328-ND	8.30	7.48	6.65	G2RK-2-DC12
	DPDT	24	1,440	10	10	2 Coil Latching	25.5 x 29 x 13	Z2329-ND	8.30	7.48	6.65	G2RK-2-DC24
18	SPST-NO	5	62.5	16	16	High Capacity; High-Inrush	12.7 x 29 x 15.7	Z2579-ND	3.47	3.13	2.78	G5RL-1A-E-HR-DC5
	SPST-NO	12	360	16	16	High Capacity; High-Inrush	12.7 x 29 x 15.7	Z2580-ND	3.47	3.13	2.78	G5RL-1A-E-HR-DC12
	SPST-NO	24	1,440	16	16	High Capacity; High-Inrush	12.7 x 29 x 15.7	Z2581-ND	3.47	3.13	2.78	G5RL-1A-E-HR-DC24
	SPST-NO	5	62.5	16	16	Low Noise	15.7 x 29 x 12.7	Z2898-ND	3.76	3.39	3.01	G5RL-1A-E-LN DC5
	SPST-NO	12	360	16	16	Low Noise	15.7 x 29 x 12.7	Z2899-ND	3.76	3.39	3.01	G5RL-1A-E-LN DC12
	SPST-NO	24	1,440	16	16	Low Noise	15.7 x 29 x 12.7	Z2900-ND	3.76	3.39	3.01	G5RL-1A-E-LN DC24
	SPST-NO	5	62.5	16	16	Low Noise	15.7 x 29 x 12.7	Z2895-ND	3.76	3.39	3.01	G5RL-1A-LN DC5
	SPST-NO	12	360	16	16	Low Noise	15.7 x 29 x 12.7	Z2896-ND	3.76	3.39	3.01	G5RL-1A-LN DC12
	SPST-NO	24	1,440	16	16	Low Noise	15.7 x 29 x 12.7	Z2897-ND	3.76	3.39	3.01	G5RL-1A-LN DC24
	SPDT	24VAC	443	16	16	High Capacity G2R	15.7 x 29 x 12.7	Z2313-ND	5.73	5.16	4.59	G5RL-1-E-AC24
	SPDT	120VAC	11.5K	16	16	High Capacity G2R	15.7 x 29 x 12.7	Z2312-ND	6.99	6.30	5.60	G5RL-1-E-AC115/120
	SPDT	240VAC	47.6K	16	16	High Capacity G2R	15.7 x 29 x 12.7	Z2311-ND	11.42	10.28	9.14	G5RL-1-E-AC230/240
19	SPST-NO	5	125	5	5	Flux Sealed	15 x 20.5 x 7	Z2774-ND	1.28	1.16	1.03	G5T-1A-DC5
	SPST-NO	12	720	5	5	Flux Sealed	15 x 20.5 x 7	Z2775-ND	1.28	1.16	1.03	G5T-1A-DC12
	SPST-NO	24	2,880	5	5	Flux Sealed	15 x 20.5 x 7	Z2776-ND	1.35	1.22	1.09	G5T-1A-DC24
20	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z954-ND	7.48	6.73	5.98	G4A-1A-P-E-DC12
	SPST-NO	24	640	20	20	—	23.5 x 30.5 x 16	Z955-ND	7.48	6.73	5.98	G4A-1A-P-E-DC24
21	SPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z961-ND	6.62	5.96	5.30	G4W1114PUSTV8HPDC12
	SPST-NO	24	720	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z962-ND	6.62	5.96	5.30	G4W1114PUSTV8HPDC24
22	DPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z963-ND	7.87	7.09	6.30	G4W-2214PUSHP-DC12
	DPST-NO	24	720	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z964-ND	7.87	7.09	6.30	G4W-2214PUSHP-DC24
	DPST-NO	24	720	15	15	TV5 Rated	30.5 x 30.5 x 19.5	Z2245-ND	6.92	6.23	5.54	G4W-2212P-US-TV5-HP-DC24
PCB Power “Sugar Cube” Relays												
23	SPST-NO	5	69.4	10	10	Fully Sealed	15.8 x 19.8 x 15.8	Z2569-ND	1.12	1.01	.90	G5LA-1A4-DC5
	SPST-NO	9	225	10	10	Fully Sealed	15.8 x 19.8 x 15.8	Z2570-ND	1.12	1.01	.90	G5LA-1A4-DC9
	SPST-NO	12	400	10	10	Fully Sealed	15.8 x 19.8 x 15.8	Z2571-ND	1.12	1.01	.90	G5LA-1A4-DC12
	SPST-NO	24	1,600	10	10	Fully Sealed	15.8 x 19.8 x 15.8	Z2572-ND	1.16	1.05	.93	G5LA-1A4-DC24
	SPST-NO	48	4,800	10	10	Fully Sealed	15.8 x 19.8 x 15.8	Z2573-ND	1.30	1.18	1.05	G5LA-1A4-DC48
	SPDT	5	69.4	5	5	Fully Sealed	15.8 x 19.8 x 15.8	Z2560-ND	1.15	1.04	.92	G5LA-14-DC5
	SPDT	9	225	5	5	Fully Sealed	15.8 x 19.8 x 15.8	Z2568-ND	1.15	1.04	.92	G5LA-14-DC9
	SPDT	12	400	5	5	Fully Sealed	15.8 x 19.8 x 15.8	Z2561-ND	1.15	1.04	.92	G5LA-14-DC12
	SPDT	24	1,600	5	5	Fully Sealed	15.8 x 19.8 x 15.8	Z2562-ND	1.20	1.08	.96	G5LA-14-DC24
	SPDT	48	4,800	5	5	Fully Sealed	15.8 x 19.8 x 15.8	Z2563-ND	1.98	1.78	1.59	G5LA-14-DC48
	SPDT	24	1,600	5	5	High Capacity, Flux Sealed	15.8 x 19.8 x 15.8	Z2837-ND	1.34	1.21	1.08	G5LA-1-E DC24
	SPDT	5	69.4	5	5	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.8	Z2574-ND	1.22	1.11	.98	G5LA-14-CF-DC5
	SPDT	9	225	5	5	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.8	Z2575-ND	1.22	1.11	.98	G5LA-14-CF-DC9
	SPDT	12	400	5	5	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.8	Z2576-ND	1.22	1.11	.98	G5LA-14-CF-DC12
	SPDT	24	1,600	5	5	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.8	Z2577-ND	1.27	1.15	1.02	G5LA-14-CF-DC24
	SPDT	48	4,800	5	5	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.8	Z2578-ND	1.41	1.28	1.14	G5LA-14-CF-DC48

Fig. 19 — G5T

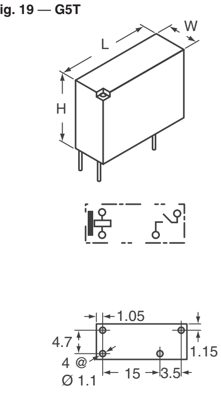

Fig. 20 — G4A

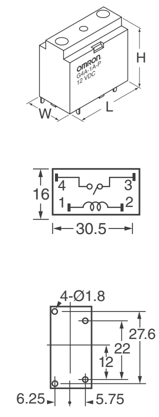

Fig. 21 — G4W

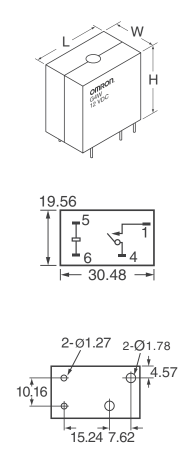

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Fig. 22 — G4W

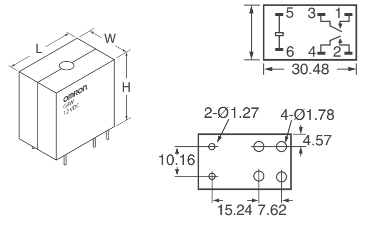

Fig. 23 — G5LA / G5LB / G5LE

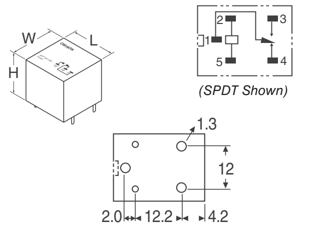

Fig. 24 — G5NB

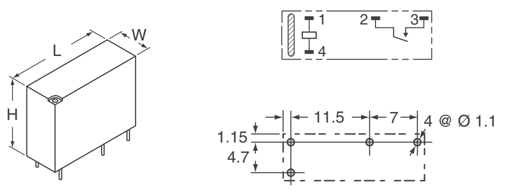

Fig.	Contact Form	Coil		Contact Ratings Resistive (A)		Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each			Omron Part No.
		Volt. (VDC)	Res. (Ω)	24 VDC	115 VAC				1	25	50	
23	SPST-NO	12	360	8	10	Fully Sealed	19 x 22.5 x 16.5	Z2352-ND	1.06	.96	.86	G5LE-1A4-DC12
	SPST-NO	24	1,440	8	10	Fully Sealed	19 x 22.5 x 16.5	Z2254-ND	3.65	3.29	2.92	G5LE-1A4-DC24
	SPST-NO	5	63	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2619-ND	2.01	1.81	1.61	G5LE-1A-E-DC5
	SPST-NO	12	360	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2620-ND	2.01	1.81	1.61	G5LE-1A-E-DC12
	SPST-NO	24	1,440	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2621-ND	2.35	2.12	1.88	G5LE-1A-E-DC24
	SPDT	5	63	8	10	Fully Sealed	19 x 22.5 x 16.5	Z1011-ND	1.16	1.05	.93	G5LE-14-DC5
	SPDT	12	360	8	10	Fully Sealed	19 x 22.5 x 16.5	Z1012-ND	1.08	.98	.87	G5LE-14-DC12
	SPDT	24	1,440	8	10	Fully Sealed	19 x 22.5 x 16.5	Z1013-ND	1.11	1.00	.89	G5LE-14-DC24
	SPDT	48	5,760	8	10	Fully Sealed	19 x 22.5 x 16.5	Z2592-ND	1.57	1.42	1.26	G5LE-14-DC48
	SPDT	5	63	8	10	Flux Sealed	19 x 22.5 x 16.5	Z1014-ND	1.14	1.03	.92	G5LE-1-DC5
	SPDT	12	360	8	10	Flux Sealed	19 x 22.5 x 16.5	Z1015-ND	1.06	.96	.85	G5LE-1-DC12
	SPDT	24	1,440	8	10	Flux Sealed	19 x 22.5 x 16.5	Z1016-ND	1.08	.98	.87	G5LE-1-DC24
	SPDT	5	63	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2616-ND	1.91	1.72	1.53	G5LE-1-E-DC5
	SPDT	12	360	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2617-ND	1.91	1.72	1.53	G5LE-1-E-DC12
	SPDT	24	1,440	10	16	Fully Sealed; High Current	19 x 22.5 x 16.5	Z2618-ND	1.91	1.72	1.53	G5LE-1-E-DC24
	SPDT	9	200	10	10	Fully Sealed; 0.8mm Contact Gap	19 x 22.5 x 16.5	Z2622-ND	1.80	1.63	1.45	G5LE-1-G-DC9
	SPDT	12	360	10	10		19 x 22.5 x 16.5	Z2623-ND	1.80	1.63	1.45	G5LE-1-G-DC12
	SPDT	24	1,440	10	10		19 x 22.5 x 16.5	Z2624-ND	1.80	1.63	1.45	G5LE-1-G-DC24
24	SPST-NO	5	125	5	3	High Capacity Flux Sealed	15.3 x 20.5 x 7.2	Z2771-ND	1.75	1.58	1.40	G5NB-1A-E DC5
	SPST-NO	12	720	5	3	High Capacity Flux Sealed	15.3 x 20.5 x 7.2	Z2772-ND	1.92	1.73	1.54	G5NB-1A-E DC12
	SPST-NO	12	720	3	3	Fully Sealed	15.3 x 20.5 x 7.2	Z2974-ND ***NEW!***	1.75	1.58	1.40	G5NB-1A4-DC12
	SPST-NO	12	720	5	3	High Capacity Fully Sealed	15.3 x 20.5 x 7.2	Z2975-ND ***NEW!***	1.85	1.67	1.48	G5NB-1A4-E-DC12
25	SPST-NO	5	44	5	8	Fully Sealed	15 x 28.5 x 10	Z2345-ND	2.87	2.59	2.30	G6RN-1A-DC5
	SPST-NO	12	18.3	5	8	Fully Sealed	15 x 28.5 x 10	Z2346-ND	2.87	2.59	2.30	G6RN-1A-DC12
	SPST-NO	24	9.2	5	8	Fully Sealed	15 x 28.5 x 10	Z2347-ND	2.87	2.59	2.30	G6RN-1A-DC24
	SPDT	5	114	5	8	Fully Sealed	15 x 28.5 x 10	Z987-ND	2.95	2.66	2.37	G6RN-1-DC5
	SPDT	12	665	5	8	Fully Sealed	15 x 28.5 x 10	Z988-ND	2.95	2.66	2.37	G6RN-1-DC12
	SPDT	24	2,620	5	8	Fully Sealed	15 x 28.5 x 10	Z990-ND	2.95	2.66	2.37	G6RN-1-DC24
26	SPDT	3	40.9	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2758-ND	3.04	2.74	2.43	G6RL-1-DC3
	SPDT	5	113.6	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2759-ND	3.04	2.74	2.43	G6RL-1-DC5
	SPDT	12	654.5	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2760-ND	3.04	2.74	2.43	G6RL-1-DC12
	SPDT	24	2,618	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2761-ND	3.04	2.74	2.43	G6RL-1-DC24
	SPDT	3	40	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2909-ND	3.58	3.23	2.87	G6RL-1-ASI-DC3
	SPDT	5	113	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2910-ND	3.58	3.23	2.87	G6RL-1-ASI-DC5
	SPDT	12	654	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2911-ND	3.58	3.23	2.87	G6RL-1-ASI-DC12
	SPDT	24	2,618	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2912-ND	3.71	3.34	2.97	G6RL-1-ASI-DC24
	SPDT	24	2,618	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2915-ND	4.25	3.83	3.41	G6RL-1-ASI-PL-SP-DC24
	SPST-NO	3	40.9	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2762-ND	2.95	2.66	2.36	G6RL-1A-DC3
	SPST-NO	5	113.6	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2763-ND	2.95	2.66	2.36	G6RL-1A-DC5
	SPST-NO	12	654.5	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2764-ND	2.95	2.66	2.36	G6RL-1A-DC12
	SPST-NO	24	2,618	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2765-ND	2.95	2.66	2.36	G6RL-1A-DC24
	SPST-NO	12	654	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2913-ND	3.49	3.14	2.79	G6RL-1A-ASI-DC12
	SPST-NO	24	2,618	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2914-ND	3.58	3.23	2.87	G6RL-1A-ASI-DC24
	SPST-NO	3	40	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2905-ND	3.42	3.08	2.74	G6RL-1A4-ASI-DC3
	SPST-NO	5	113	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2906-ND	3.42	3.08	2.74	G6RL-1A4-ASI-DC5
	SPST-NO	12	654	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2907-ND	3.41	3.08	2.73	G6RL-1A4-ASI-DC12
	SPST-NO	24	2,618	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2908-ND	3.54	3.19	2.84	G6RL-1A4-ASI-DC24
	SPDT	3	40	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2901-ND	3.60	3.25	2.89	G6RL-14-ASI-DC3
	SPDT	5	113	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2902-ND	3.60	3.25	2.89	G6RL-14-ASI-DC5
	SPDT	12	654	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2903-ND	3.60	3.24	2.88	G6RL-14-ASI-DC12
	SPDT	24	2,618	5	8	Fully Sealed	12.3 x 28.5 x 10	Z2904-ND	3.72	3.35	2.98	G6RL-14-ASI-DC24

Fig. 25 — G6RN

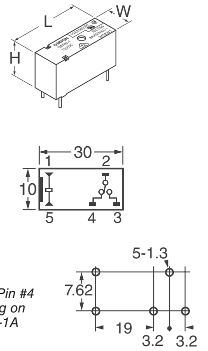

Note: Pin #4 missing on G6RN-1A

(G6RN-1 Shown)

Fig. 26 — G6RL

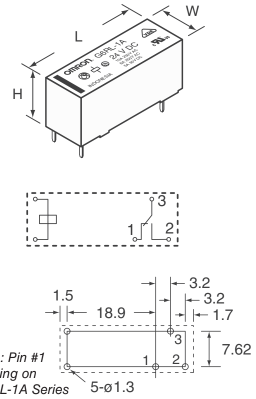

Note: Pin #1 missing on G6RL-1A Series

General Purpose and Automotive Relays

All Relays UL/CSA approved

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
G8P Relays - PC Mount and QC Style											
1	SPST-NO	5VDC	27	30A@250VAC/ 20A@28VDC	Open Case PCB	Z1002-ND	2.83	2.55	2.27	2.04	G8P-1AP-DC5
	SPST-NO	12VDC	155		Open Case PCB	Z1003-ND	2.83	2.55	2.27	2.04	G8P-1AP-DC12
	SPST-NO	24VDC	660		Open Case PCB	Z1004-ND	2.83	2.55	2.27	2.04	G8P-1AP-DC24
2	SPST-NO	5VDC	27	30A@250VAC/ 20A@28VDC	Sealed PCB	Z1006-ND	3.12	2.82	2.50	2.25	G8P-1A4P-DC5
	SPST-NO	12VDC	155		Sealed PCB	Z1007-ND	3.12	2.82	2.50	2.25	G8P-1A4P-DC12
	SPST-NO	24VDC	660		Sealed PCB	Z1008-ND	3.12	2.82	2.50	2.25	G8P-1A4P-DC24
	SPDT	12VDC	155	10A@250VAC/ 10A@28VDC	Sealed PCB	Z1009-ND	3.22	2.90	2.58	2.32	G8P-1C4P-DC12
	SPDT	24VDC	660		Sealed PCB	Z1010-ND	3.22	2.90	2.58	2.32	G8P-1C4P-DC24
3	SPST-NO	12VDC	155	30A@250VAC/ 20A@28VDC	PCB and QC Terminal	Z208-ND	3.61	3.26	2.89	2.61	G8P-1A4TP-DC12
	SPST-NO	24VDC	660		PCB and QC Terminal	Z209-ND	3.61	3.26	2.89	2.61	G8P-1A4TP-DC24
	SPDT	12VDC	155	10A@250VAC/ 10A@28VDC	PCB and QC Terminal	Z210-ND	3.71	3.34	2.97	2.68	G8P-1C4TP-DC12
	SPDT	24VDC	660		PCB and QC Terminal	Z214-ND	3.71	3.34	2.97	2.68	G8P-1C4TP-DC24
4	SPST-NO	12VDC	155	30A@250VAC/ 20A@28VDC	Chassis Mount	Z215-ND	3.87	3.49	3.10	2.79	G8P-1A2T-F-DC12
	SPST-NO	24VDC	660		Chassis Mount	Z216-ND	3.90	3.52	3.13	2.82	G8P-1A2T-F-DC24
	SPDT	12VDC	155	10A@250VAC/ 10A@28VDC	Chassis Mount	Z217-ND	4.00	3.61	3.21	2.89	G8P-1C2T-F-DC12
	SPDT	24VDC	660		Chassis Mount	Z218-ND	4.00	3.61	3.21	2.89	G8P-1C2T-F-DC24
G8PE Automotive PCB Relays											
—	SPDT	12VDC	135	40A@12VDC	High Current PCB	Z2779-ND	6.92	6.23	5.54	4.98	G8PE-1C4 DC12

Fig. 1 — G8P Open Frame

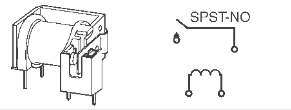

Fig. 2 — G8P Sealed Case

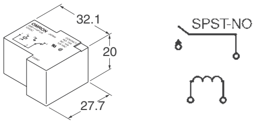

Fig. 3 — G8P PCB and QC

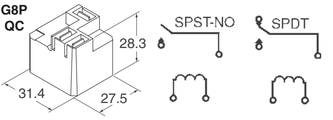

Fig. 4 — G8P Chassis Mount

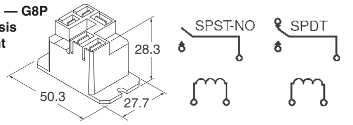

(Continued)

OMRON General Purpose and Automotive Relays *(Cont.)*

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
					G8JN/G8JR ISO Automotive Relays						
5	SPDT	12VDC	78	35NO/20NC	Weatherproof Shroud	Z983-ND	6.17	5.56	4.94	4.45	G8JN-1C6T-DC12
	SPDT	12VDC	78	35NO/20NC	Weatherproof with Bracket	Z984-ND	7.61	6.85	6.09	5.48	G8JN-1C6T-F-DC12
	SPDT	12VDC	74	35NO/20NC	Weatherproof Shroud and Bracket	Z2868-ND	8.26	7.44	6.61	5.95	G8JN-1C6T-F-R-DC12
	SPDT	12VDC	74	35NO/20NC	Weatherproof Shroud	Z2781-ND	6.28	5.66	5.03	4.53	G8JN-1C6T-R-DC12
	SPDT	12VDC	78	35NO/20NC	QC Terminal	Z981-ND	6.12	5.51	4.90	4.41	G8JN-1C7T-DC12
	SPDT	12VDC	78	35NO/20NC	With Molded Bracket	Z982-ND	6.01	5.41	4.81	4.33	G8JN-1C7T-MF-DC12
	SPDT	12VDC	74	35NO/20NC	With Molded Bracket	Z2782-ND	6.12	5.52	4.90	4.41	G8JN-1C7T-MF-R-DC12
	SPDT	12VDC	74	35NO/20NC	QC Terminal	Z2248-ND ***NEW!***	5.93	5.34	4.75	4.28	G8JN-1C7T-R-DC12
	SPST	12VDC	71	50 NO	QC Terminal	Z2716-ND	7.99	7.20	6.40	5.76	G8JR-1A7T-R-DC12
					G8W Mini 280 Automotive Relays						
6	SPST-NO	12VDC	91	35NO/20NC	Weatherproof with Resistor	Z2053-ND	5.93	5.34	4.75	4.27	G8W-1A6T-F-R-DC12
	SPST-NO	12VDC	91	35NO/20NC	Weatherproof with Resistor	Z2784-ND	4.99	4.50	4.00	3.60	G8W-1A7T-R-DC12
	SPDT	12VDC	91	35NO/20NC	Standard with Resistor	Z2783-ND	5.53	4.98	4.43	3.99	G8W-1C6T-R-DC12
	SPDT	12VDC	91	35NO/20NC	Weatherproof with Bracket	Z2054-ND	6.08	5.47	4.87	4.38	G8W-1C6T-F-R-DC12
	SPDT	12VDC	91	35NO/20NC	Standard with Resistor	Z2260-ND	5.14	4.63	4.11	3.70	G8W-1C7T-R-DC12
					G8V Micro280 Automotive Relays						
7	SPST	12VDC	104	20NO/10NC	Plug-In	Z2051-ND	4.97	4.48	3.98	3.58	G8V-1A7T-R-DC12
	SPDT	12VDC	104	20NO/10NC	Plug-In	Z2052-ND	5.13	4.62	4.11	3.70	G8V-1C7T-R-DC12
	SPST	12VDC	104	35NO/20NC	Plug-In, High Current	Z2648-ND	5.13	4.62	4.11	3.70	G8V-RH-1A7T-R-DC12
	SPDT	12VDC	104	35NO/20NC	Plug-In, High Current	Z2649-ND	5.13	4.62	4.11	3.70	G8V-RH-1C7T-R-DC12
					G8H/G8HN Micro ISO Automotive Relays						
8	SPDT	12VDC	100	20NO/10NC	Plug-In	Z2247-ND	4.82	4.35	3.86	3.48	G8HN-1C2T-R-DC12
					G8N/G8QN Relays						
9	SPDT	12VDC	225	30	PCB	Z2697-ND	8.81	7.93	7.05	6.35	G8N-1-DC12-SK
	SPDT	12VDC	225	30	PCB	Z2696-ND	3.02	2.72	2.42	2.18	G8QN-1C4-DC12
					MJN Relays — Plug-In Style						
10	DPDT	12VDC	120	10	Plug-In	Z237-ND	13.54	12.19	10.84	9.75	MJN2C-DC12
	DPDT	24VDC	470	10	Plug-In	Z236-ND	13.54	12.19	10.84	9.75	MJN2C-DC24
	DPDT	24VAC	75	10	Plug-In	Z235-ND	14.40	12.96	11.52	10.37	MJN2C-AC24
	3PDT	12VDC	120	10	Plug-In	Z233-ND	14.01	12.62	11.22	10.09	MJN3C-DC12
	3PDT	24VDC	470	10	Plug-In	Z232-ND	14.01	12.62	11.22	10.09	MJN3C-DC24
	3PDT	24VAC	72	10	Plug-In	Z231-ND	14.97	13.48	11.98	10.79	MJN3C-AC24
	3PDT	120VAC	1,700	10	Plug-In	Z234-ND	15.76	14.19	12.61	11.35	MJN3C-AC120
					MJN Relays with Mounting Flange						
10	DPDT	12VDC	120	20	With Mounting Flange	Z249-ND	15.85	14.27	12.69	11.42	MJN2CE-DC12
	DPDT	24VDC	470	20	With Mounting Flange	Z250-ND	15.85	14.27	12.69	11.42	MJN2CE-DC24
	DPDT	120VAC	2,250	20	With Mounting Flange	Z247-ND	18.30	16.47	14.64	13.18	MJN2CE-AC120
	DPDT	12VDC	120	10	With Mounting Flange	Z244-ND	13.16	11.85	10.53	9.48	MJN2CF-DC12
	3PDT	120VAC	1,700	10	With Mounting Flange	Z242-ND	16.24	14.62	12.99	11.70	MJN3CF-AC120
	3PDT	240VAC	7,200	10	With Mounting Flange	Z2862-ND	19.60	17.65	15.69	14.12	MJN3CF-AC240
					MGN Relays — Heavy Duty Power Type						
11	SPDT	12VDC	72	30	With Mounting Flange	Z257-ND	27.19	24.48	21.76	19.58	MGN1C-DC12
	SPDT	120VAC	295	30	With Mounting Flange	Z256-ND	27.04	24.34	21.64	19.48	MGN1C-AC120
	SPST	12VDC	72	30	With Mounting Flange	Z261-ND	23.31	20.98	18.65	16.79	MGN1X-DC12
	DPST	12VDC	72	30	With Mounting Flange	Z265-ND	27.82	25.04	22.26	20.03	MGN2A-DC12
	DPST	24VAC	11.5	30	With Mounting Flange	Z264-ND	29.81	26.83	23.85	21.47	MGN2A-AC24
	DPDT	12VDC	72	30	With Mounting Flange	Z269-ND	39.65	35.69	31.72	28.55	MGN2C-DC12
	DPDT	24VDC	290	30	With Mounting Flange	Z270-ND	38.37	34.54	30.70	27.63	MGN2C-DC24
	DPDT	120VAC	295	30	With Mounting Flange	Z267-ND	34.37	30.94	27.50	24.75	MGN2C-AC120

Relay Sockets and Accessories

Fig.	Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
12	MJN (10A)	Din Rail Socket with Screw Terminals	Z251-ND	8.50	7.66	6.81	6.13	PTF11PC
13	MJN (10A)	Chassis Mount with QC Terminals	Z252-ND	1.80	1.63	1.45	1.30	PTF11QDC
12	MJN (10A)	Chassis Mount with Screw Terminals	Z253-ND	8.26	7.44	6.61	5.95	PTF21PC
13	MJN (10A)	Chassis Mount with PCB Terminals	Z254-ND	1.66	1.50	1.33	1.20	PTFPCB
—	G2R-S	Screwless Socket (Wire Trap) SP G2R-S	Z2058-ND	5.70	5.14	4.57	4.11	PTRF-05-S
—	G2R-S	Screwless Socket (Wire Trap) DP G2R-S	Z2059-ND	9.56	8.61	7.65	6.89	PTRF-08-S

Fig. 5 — G8JN/G8JR

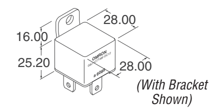

(With Bracket Shown)

Fig. 6 — G8W

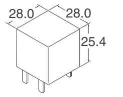

Fig. 7 — G8V

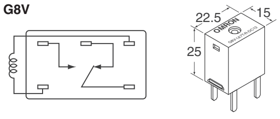

Fig. 8 — G8H/G8HN - Mini-ISO

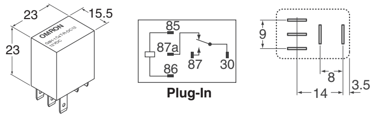

Fig. 9 — G8N/G8QN

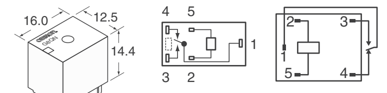

G8N G8QN

Fig. 10 — MJN

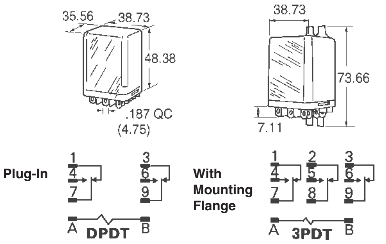

Fig. 11 — MGN

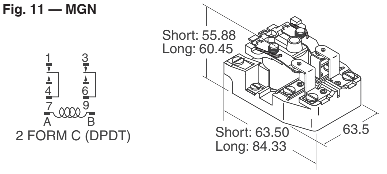

Fig. 12

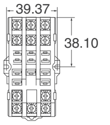

Fig. 13

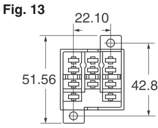

Power Relays

Dimensions in mm

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Res. (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
					LY Power Relays — Plug-In Terminals						
1	SPDT	12VDC	160	15A @ 110VAC; 15A @ 24VDC	Plug-In	Z785-ND	7.51	6.76	6.01	5.41	LY1-DC12
	SPDT	24VDC	650		Plug-In	Z784-ND	7.51	6.76	6.01	5.41	LY1-DC24
	SPDT	24VAC	180		Plug-In	Z783-ND	7.87	7.08	6.30	5.67	LY1-AC24
	SPDT	120VAC	4,430		Plug-In	Z781-ND	7.87	7.08	6.30	5.67	LY1-AC110/120
	SPDT	12VDC	160		With Mounting Ears	Z193-ND	7.99	7.20	6.40	5.76	LY1F-DC12
	SPDT	24VDC	650		With Mounting Ears	Z194-ND	7.99	7.20	6.40	5.76	LY1F-DC24
	SPDT	24VAC	180		With Mounting Ears	Z195-ND	7.99	7.20	6.40	5.76	LY1F-AC24
	SPDT	120VAC	4,430		With Mounting Ears	Z782-ND	7.99	7.20	6.40	5.76	LY1F-AC110/120
	SPDT	240VAC	18,790		With Mounting Ears	Z2261-ND ***NEW!***	8.34	7.51	6.68	6.01	LY1F-AC220/240
	DPDT	6VDC	40	10A @ 110VAC; 10A @ 24VDC	Plug-In	Z3023-ND ***NEW!***	8.83	7.95	7.06	6.36	LY2-DC6
	DPDT	12VDC	160		Plug-In	Z790-ND	8.83	7.95	7.06	6.36	LY2-DC12
	DPDT	24VDC	650		Plug-In	Z789-ND	8.83	7.95	7.06	6.36	LY2-DC24
	DPDT	24VAC	180		Plug-In	Z788-ND	8.83	7.95	7.06	6.36	LY2-AC24
	DPDT	48VDC	2,600		Plug-In	Z2262-ND	8.83	7.95	7.06	6.36	LY2-DC48
	DPDT	120VAC	4,430		Plug-In	Z786-ND	8.83	7.95	7.06	6.36	LY2-AC110/120
	DPDT	240VAC	18.790		Plug-In	Z2878-ND	9.15	8.24	7.33	6.59	LY2-AC220/240
	DPDT	12VDC	160		With Mounting Ears	Z190-ND	9.02	8.12	7.22	6.50	LY2F-DC12
	DPDT	24VDC	650		With Mounting Ears	Z191-ND	9.02	8.12	7.22	6.50	LY2F-DC24
	DPDT	24VAC	180		With Mounting Ears	Z192-ND	9.02	8.12	7.22	6.50	LY2F-AC24
	DPDT	120VAC	4,430		With Mounting Ears	Z787-ND	9.02	8.12	7.22	6.50	LY2F-AC110/120
	DPDT	220VAC	12,950		With Mounting Ears	Z2264-ND	9.61	8.66	7.70	6.93	LY2F-AC220/240
	DPDT	12VDC	160		Plug-In with LED	Z2603-ND	11.85	10.67	9.48	8.54	LY2N-DC12
	DPDT	24VDC	650		Plug-In with LED	Z2604-ND	11.85	10.67	9.48	8.54	LY2N-DC24
	DPDT	120VAC	4,430		Plug-In with LED	Z2610-ND	11.85	10.67	9.48	8.54	LY2N-AC110/120
	DPDT	12VDC	160		Safety Relay	Z2945-ND ***NEW!***	17.64	15.88	14.11	12.70	LYQ2-DC12

§ Use 4PDT MY or MY2 Sockets

(Continued)

Fig. 1

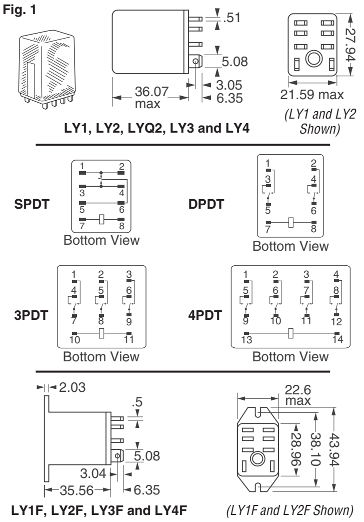

Power Relays *(Cont.)*

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Res. (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
1	DPDT	120VAC	4,430	10A @ 110VAC; 10A @ 24VDC	With LED and Test Button	Z1678-ND	28.98	26.09	23.19	20.87	LY2I4N-AC110/120
	3PDT	24VDC	410		Plug-In	Z1679-ND	12.09	10.88	9.67	8.71	LY3-DC24
	3PDT	120VAC	2,450		Plug-In	Z1680-ND	12.09	10.88	9.67	8.71	LY3-AC120
	3PDT	24VAC	100		With Mounting Ears	Z2267-ND	12.09	10.88	9.67	8.71	LY3F-AC24
	4PDT	12VDC	100		Plug-In	Z1682-ND	14.08	12.68	11.27	10.15	LY4-DC12
	4PDT	24VAC	78		Plug-In	Z2270-ND	14.08	12.68	11.27	10.15	LY4-AC24
	4PDT	24VDC	350		Plug-In	Z1681-ND	14.08	12.68	11.27	10.15	LY4-DC24
	4PDT	120VAC	2,200		Plug-In	Z1683-ND	14.08	12.68	11.27	10.15	LY4-AC120
	4PDT	24VDC	350		Plug-In with Diode	Z2272-ND	20.87	18.78	16.70	15.03	LY4-D-DC24
	4PDT	12VDC	100		With Mounting Ears	Z2860-ND	14.08	12.68	11.27	10.15	LY4F-DC12
	4PDT	24VDC	350		With Mounting Ears	Z2861-ND	14.08	12.68	11.27	10.15	LY4F-DC24
	4PDT	120VAC	2,200		With Mounting Ears	Z2859-ND	14.08	12.68	11.27	10.15	LY4F-AC120
	4PDT	24VDC	350		Plug-In with LED	Z2275-ND	19.35	17.42	15.49	13.94	LY4N-DC24
	4PDT	24VAC	78		Plug-In with LED	Z2274-ND	46.70	42.03	37.36	33.63	LY4N-AC24
	4PDT	120VAC	1,800		Plug-In with LED	Z2273-ND	15.59	14.04	12.48	11.23	LY4N-AC110/120
LY Power Relays — PC Mount											
1	SPDT	24VDC	650	15A @ 110VAC; 15A @ 24VDC	PCB Mount	Z973-ND	17.90	16.11	14.32	12.89	LY1-0-DC24
	SPDT	120VAC	4,430		PCB Mount	Z971-ND	18.98	17.09	15.19	13.67	LY1-0-AC110/120
	DPDT	12VDC	160	10A @ 110VAC; 10A @ 24VDC	PCB Mount	Z978-ND	8.83	7.95	7.06	6.36	LY2-0-DC12
	DPDT	24VDC	650		PCB Mount	Z977-ND	8.83	7.95	7.06	6.36	LY2-0-DC24
	DPDT	100VDC	11,000		PCB Mount	Z979-ND	9.22	8.30	7.38	6.64	LY2-0-DC100/110
	DPDT	24VAC	180		PCB Mount	Z976-ND	8.83	7.95	7.06	6.36	LY2-0-AC24
	DPDT	120VAC	4,430		PCB Mount	Z975-ND	8.83	7.95	7.06	6.36	LY2-0-AC110/120
	4PDT	24VDC	350		PCB Mount	Z2269-ND	14.08	12.68	11.27	10.15	LY4-0-DC24
Power Relays — Plug-In Terminals											
2	DPDT	12VDC	107	10A @ 250VAC; 10A @ 28VDC	Plug-In	Z3034-ND ***NEW!***	12.50	11.25	10.00	9.00	MKS2PIDC12
	DPDT	24VAC	48.4	10A @ 250VAC	Plug-In, Lockable w/Ind.	Z3035-ND ***NEW!***	14.22	12.80	11.38	10.24	MKS2PI-2 AC24
	DPDT	12VDC	107	10A @ 250VAC	Plug-In, Lockable w/Ind.	Z3036-ND ***NEW!***	14.22	12.80	11.38	10.24	MKS2PI-2 DC12
	3PDT	12VDC	95	10A @ 120VAC; 10A @ 28VDC	Plug-In	Z804-ND	16.26	14.64	13.01	11.71	MK3P5-S-DC12
	3PDT	24VAC	48.4	10A @ 250VAC	Plug-In, Lockable w/Ind.	Z3038-ND ***NEW!***	14.64	14.64	13.01	11.71	MKS3PIN-5 AC24
	3PDT	120VAC	1,130	10A @ 250VAC	Plug-In, Lockable w/Ind.	Z3037-ND ***NEW!***	15.67	15.67	13.93	12.53	MKS3PIN-5 AC120
	3PDT	12VDC	107	10A @ 250VAC	Plug-In, Lockable w/Ind.	Z3039-ND ***NEW!***	14.64	14.64	13.01	11.71	MKS3PIN-5 DC12
3	SPST-NO	24VAC	48.4	10A @ 220VDC	Plug-In, DC Load	Z2953-ND ***NEW!***	25.73	23.16	20.58	18.53	MKS1XT-10 AC24
	SPST-NO	120VAC	1,130	10A @ 220VDC	Plug-In, DC Load	Z2954-ND ***NEW!***	25.73	23.16	20.58	18.53	MKS1XT-10 AC120
	SPST-NO	240VAC	4,480	10A @ 220VDC	Plug-In, DC Load	Z2955-ND ***NEW!***	29.58	26.63	23.67	21.31	MKS1XT-10 AC240
	SPST-NO	12VDC	95	10A @ 220VDC	Plug-In, DC Load	Z2956-ND ***NEW!***	25.73	23.16	20.58	18.53	MKS1XT-10 DC12
	SPST-NO	24VDC	380	10A @ 220VDC	Plug-In, DC Load	Z2957-ND ***NEW!***	25.73	23.16	20.58	18.53	MKS1XT-10 DC24
	SPST-NO	24VAC	48.4	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2958-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTN-10 AC24
	SPST-NO	120VAC	1,130	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2959-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTN-10 AC120
	SPST-NO	12VDC	95	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2960-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTN-10 DC12
	SPST-NO	24VDC	380	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2961-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTN-10 DC24
	SPST-NO	120VAC	1,130	10A @ 220VDC	Plug-In, DC Load	Z2962-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTI-10 AC120
	SPST-NO	24VDC	380	10A @ 220VDC	Plug-In, DC Load	Z2963-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS1XTI-10 DC24
	SPST-NO	120VAC	1,130	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2964-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS1XTIN-10 AC120
	SPST-NO	24VDC	380	10A @ 220VDC	Plug-In, DC Load w/Ind.	Z2965-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS1XTIN-10 DC24
	SPST-NO/ NC	120VAC	1,130	5A @ 220VDC	Plug-In, DC Load	Z2966-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS2XT-11 AC120
		24VDC	380	5A @ 220VDC	Plug-In, DC Load	Z2967-ND ***NEW!***	28.30	25.47	22.64	20.38	MKS2XT-11 DC24
		120VAC	1,130	5A @ 220VDC	Plug-In, DC Load w/Ind.	Z2968-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS2XTN-11 AC120
		24VDC	380	5A @ 220VDC	Plug-In, DC Load w/Ind.	Z2969-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS2XTN-11 DC24
		120VAC	1,130	5A @ 220VDC	Plug-In, DC Load	Z2970-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS2XTI-11 AC120
		24VDC	380	5A @ 220VDC	Plug-In, DC Load	Z2971-ND ***NEW!***	30.87	27.79	24.70	22.23	MKS2XTI-11 DC24
		120VAC	1,130	5A @ 220VDC	Plug-In, DC Load w/Ind.	Z2972-ND ***NEW!***	33.44	30.10	26.76	24.08	MKS2XTIN-11 AC120
		24VDC	380	5A @ 220VDC	Plug-In, DC Load w/Ind.	Z2973-ND ***NEW!***	33.44	30.10	26.76	24.08	MKS2XTIN-11 DC24
—	DIN Rail Socket Relay for MKS-X Series					Z2990-ND ***NEW!***	16.08	14.48	12.87	11.58	P7MF-06
4	DPDT	12VDC	160	5A @ 250VAC; 5A @ 30VDC	Plug-In	Z181-ND	6.22	5.60	4.98	4.48	MY2-DC12(S)
	DPDT	24VDC	636		Plug-In	Z182-ND	6.22	5.60	4.98	4.48	MY2-DC24(S)
	DPDT	48VDC	2,560		Plug-In	Z183-ND	6.46	5.81	5.17	4.65	MY2-DC48(S)
	DPDT	24VAC	180		Plug-In	Z184-ND	6.22	5.60	4.98	4.48	MY2-AC24(S)
	DPDT	120VAC	4,430		Plug-In	Z185-ND	6.46	5.81	5.17	4.65	MY2-AC110/120(S)
	DPDT	24VDC	636		PCB Mount	Z2633-ND	7.62	6.87	6.10	5.49	MY2-02-DC24
	DPDT	24VDC	636		With LED	Z2884-ND	6.98	6.28	5.59	5.03	MY2N DC24 (S)
	DPDT	24VDC	636		With Diode and LED	Z2883-ND	13.95	12.56	11.16	10.05	MY2N-D2 DC24 (S)
	DPDT	120VAC	4,430		With LED	Z2882-ND	7.21	6.49	5.77	5.20	MY2N AC110/120 (S)
	3PDT	120VAC	4,430	5A @ 220VAC; 5A @ 24VDC	Plug-In with LED	Z2249-ND	26.80	24.12	21.44	19.30	MY3N-AC110/120
	4PDT	12VDC	160	3A @ 250VAC; 3A @ 30VDC	Plug-In	Z186-ND	7.45	6.71	5.96	5.37	MY4-DC12(S)
	4PDT	24VDC	636		Plug-In	Z187-ND	7.45	6.71	5.96	5.37	MY4-DC24(S)
	4PDT	24VAC	180		Plug-In	Z188-ND	7.45	6.71	5.96	5.37	MY4-AC24(S)
	4PDT	120VAC	4,430		Plug-In	Z189-ND	7.63	6.88	6.11	5.50	MY4-AC110/120(S)
	4PDT	110VDC	11.1K		Plug-In	Z2276-ND	8.20	7.39	6.57	5.91	MY4-DC100/110(S)
	4PDT	240VAC	18.7K		Plug-In with LED	Z2885-ND	8.20	7.39	6.57	5.91	MY4 AC220/240 (S)
	4PDT	12VDC	160		Plug-In with LED	Z2279-ND	8.25	7.43	6.60	5.94	MY4N-DC12(S)
	4PDT	24VDC	636		Plug-In with LED	Z2188-ND	8.25	7.43	6.60	5.94	MY4N-DC24(S)
	4PDT	24VAC	180		Plug-In with LED	Z2890-ND	8.25	7.43	6.60	5.94	MY4N AC24 (S)
	4PDT	120VAC	4,430		Plug-In with LED	Z2889-ND	8.39	7.55	6.72	6.04	MY4N AC110/120 (S)
	4PDT	240VAC	18,790		Plug-In with LED	Z2277-ND	9.38	8.45	7.51	6.76	MY4N-AC220/240(S)
	4PDT	24VDC	636		With LED and Diode	Z2278-ND	15.46	13.92	12.37	11.14	MY4N-D2-DC24(S)
	4PDT	24VDC	636		Plug-In with LED	Z2887-ND	8.72	7.85	6.98	6.28	MY4IN DC24 (S)
	4PDT	120VAC	4,430		Plug-In with LED	Z2886-ND	8.86	7.98	7.09	6.38	MY4IN AC110/120 (S)
	4PDT	120VAC	4,430		Bifurcated Contacts	Z2946-ND ***NEW!***	12.10	10.90	9.69	8.72	MY4Z-AC110/120
	4PDT	12VDC	160		Bifurcated Contacts	Z2281-ND	15.46	13.92	12.37	11.14	MY4ZN-DC12(S)
	4PDT	24VDC	636		Bifurcated Contacts	Z2282-ND	15.46	13.92	12.37	11.14	MY4ZN-DC24(S)
	4PDT	24VDC	636	3A @ 220VAC; 3A @ 24VDC	PCB Mount	Z2634-ND	7.99	7.19	6.39	5.75	MY4-02-DC24
5	SPST-NO	120VAC	5,260	30A @ 220VAC	.250" QC Type	Z2935-ND	12.80	11.52	10.24	9.22	G7L-1A-TUB-CB-AC100/120
	SPST-NO	24VDC	303	30A @ 220VAC	.250" QC Type	Z817-ND	11.93	10.74	9.55	8.60	G7L-1A-TUB-J-CB-DC24
	SPST-NO	24VAC	303	30A @ 220VAC	.250" QC Type	Z815-ND	12.80	11.52	10.24	9.22	G7L-1A-TUB-J-CB-AC24
	SPST-NO	120VAC	5,260	30A @ 220VAC	.250" QC Type	Z814-ND	12.80	11.52	10.24	9.22	G7L-1A-TUB-J-CB-AC100/120
	SPST-NO	220VAC	21,000	30A @ 220VAC	.250" QC Type	Z816-ND	13.52	12.17	10.82	9.74	G7L-1A-TUB-J-CB-AC200/240

§ Use 4PDT MY or MY2 Sockets

(Continued)

Fig. 2

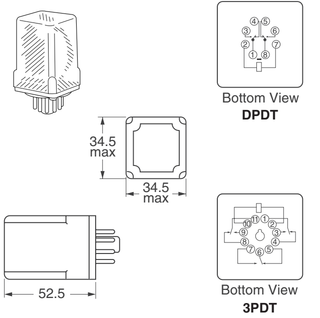

Fig. 3 ***NEW!***

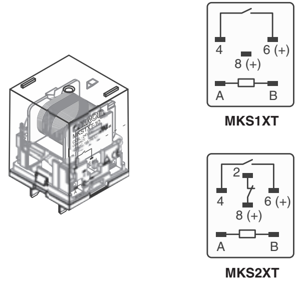

Fig. 4

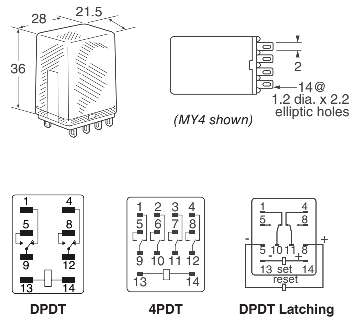

Fig. 5

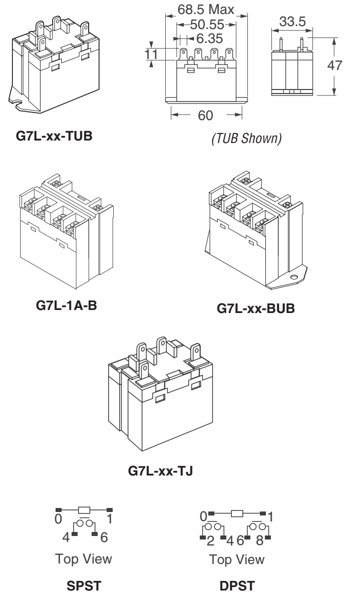

OMRON **Power Relays** *(Cont.)*

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Res. (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
5	SPST-NO	120VAC	5,260	30A @ 220VAC	Screw Terminal Type	Z2976-ND ***NEW!***	17.12	15.42	13.70	12.33	G7L-1A-B-CB-AC100/120BYOMI
	SPST-NO	12VDC	75	30A @ 220VAC	Screw Terminal Type	Z1051-ND	16.68	15.02	13.35	12.02	G7L-1A-BUBJ-CB-DC12
	SPST-NO	24VDC	303	30A @ 220VAC	Screw Terminal Type	Z1052-ND	16.68	15.02	13.35	12.02	G7L-1A-BUBJ-CB-DC24
	SPST-NO	24VAC	303	30A @ 220VAC	Screw Terminal Type	Z1053-ND	16.03	14.43	12.83	11.55	G7L-1A-BUBJ-CB-AC24
	SPST-NO	120VAC	5,260	30A @ 220VAC	Screw Terminal Type	Z1054-ND	17.64	15.88	14.11	12.70	G7L-1A-BUBJ-CB-AC100/120
	DPST-NO	24VDC	303	25A @ 220VAC	Screw Terminal Type	Z2258-ND	17.58	15.83	14.07	12.66	G7L2ABUBJCBDC24
	DPST-NO	24VAC	303	25A @ 220VAC	Screw Terminal Type	Z2875-ND	18.09	16.29	14.48	13.03	G7L-2A-BUBJ-CB AC24
	DPST-NO	120VAC	5,260	25A @ 220VAC	Screw Terminal Type	Z2894-ND	18.50	16.65	14.80	13.32	G7L-2A-BUBJ-CB AC100/120
	DPST-NO	240VAC	21,000	25A @ 220VAC	Screw Terminal Type	Z2876-ND	19.23	17.31	15.39	13.85	G7L-2A-BUBJ-CB AC200/240
	DPST-NO	120VAC	5,260	25A @ 220VAC	.250" QC Type	Z2936-ND	13.26	11.94	10.61	9.55	G7L-2A-T-J-CB-AC100/120
	DPST-NO	240VAC	21,000	25A @ 220VAC	.250" QC Type	Z2937-ND	13.91	12.53	11.13	10.02	G7L-2A-TUB-CB-AC200/240
	DPST-NO	12VDC	75	25A @ 220VAC	.250" QC Type	Z2877-ND	12.39	11.16	9.92	8.93	G7L-2A-TUB-J-CB-DC12
	DPST-NO	24VDC	303	25A @ 220VAC	.250" QC Type	Z821-ND	12.39	11.16	9.92	8.93	G7L-2A-TUB-J-CB-DC24
	DPST-NO	24VAC	303	25A @ 220VAC	.250" QC Type	Z820-ND	13.26	11.94	10.61	9.55	G7L-2A-TUB-J-CB-AC24
	DPST-NO	120VAC	5,260	25A @ 220VAC	.250" QC Type	Z818-ND	13.26	11.94	10.61	9.55	G7L-2A-TUB-J-CB-AC100/120
	DPST-NO	220VAC	21,000	25A @ 220VAC	.250" QC Type	Z819-ND	13.91	12.53	11.13	10.02	G7L-2A-TUB-J-CB-AC200/240
	DPST-NO	12VDC	75	20A @ 220VAC	PCB Terminal Type	Z2259-ND	17.02	15.32	13.62	12.26	G7L-2A-P-CB-DC12
	DPST-NO	24VDC	303	20A @ 220VAC	PCB Terminal Type	Z2582-ND	17.02	15.32	13.62	12.26	G7L-2A-PCB-DC24
6	DPST-NO/NC	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1032-ND	35.25	31.73	28.20	25.38	G7J-2A2B-B-W1DC24
		120VAC	—	25A @ 220VAC	Screw Terminal Type	Z1030-ND	40.14	36.13	32.12	28.91	G7J-2A2B-B-W1AC100/120
		240VAC	—	25A @ 220VAC	Screw Terminal Type	Z1031-ND	41.12	37.02	32.90	29.61	G7J-2A2B-B-W1AC200/240
	3PST/SPST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1035-ND	35.25	31.73	28.20	25.38	G7J-3A1B-B-W1DC24
		120VAC	—	25A @ 220VAC	Screw Terminal Type	Z1033-ND	40.14	36.13	32.12	28.91	G7J-3A1B-B-W1AC100/120
	4PST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1038-ND	35.25	31.73	28.20	25.38	G7J-4A-B-W1-DC24
	4PST	120VAC	—	25A @ 220VAC	Screw Terminal Type	Z1036-ND	40.14	36.13	32.12	28.91	G7J-4A-B-W1-AC100/120
	4PST	240VAC	—	25A @ 220VAC	Screw Terminal Type	Z1037-ND	41.12	37.02	32.90	29.61	G7J-4A-B-W1-AC200/240
Power Relays — Hermetically Sealed Case											
4	4PDT	12DC	160	3A @ 110VAC; 3A @ 24VDC	Class 1, Division 2	Z1223-ND	52.88	47.59	42.31	38.08	MY4H-US-DC12
	4PDT	24DC	650		Class 1, Division 2	Z1224-ND	52.88	47.59	42.31	38.08	MY4H-US-DC24
	4PDT	120AC	4,430		Class 1, Division 2	Z1225-ND	52.88	47.59	42.31	38.08	MY4H-US-AC110/120
—	Track Mounted Socket for Hermetically Sealed MY4					Z2650-ND	8.81	7.94	7.06	6.35	PYF14A-E-US
MY2K Latching Relays — Plug In											
4	DPDT	12VDC	160	3A @ 220VAC; 3A @ 24VDC	Dual Coil Latching	Z2056-ND§	21.74	19.57	17.39	15.66	MY2K-DC12
	DPDT	24VDC	636		Dual Coil Latching	Z2057-ND§	21.74	19.57	17.39	15.66	MY2K-DC24
	DPDT	24VDC	470		Dual Coil Latching	Z2881-ND	21.74	19.57	17.39	15.66	MY2K-US DC24
	DPDT	120VAC	4,430		Dual Coil Latching	Z2055-ND§	62.14	55.93	49.72	44.75	MY2K-AC120
DC Power Relays — G9E Series											
7	SPST-NO	12DC	28.8	60A @ 400VDC	High Voltage DC	Z1610-ND	163.75	147.38	131.01	117.91	G9EA-1-B DC12
	SPST-NO	24DC	115.2	60A @ 400VDC	High Voltage DC	Z1611-ND	163.75	147.38	131.01	117.91	G9EA-1-B DC24
	SPST-NO	12DC	28.8	60A @ 400VDC	High Voltage DC	Z1612-ND	163.75	147.38	131.01	117.91	G9EA-1 DC12
	SPST-NO	24DC	115.2	60A @ 400VDC	High Voltage DC	Z1613-ND	163.75	147.38	131.01	117.91	G9EA-1 DC24
	SPST-NO	12DC	28.8	30A @ 400VDC	High Voltage DC	Z1614-ND	293.94	264.55	235.15	211.64	G9EA-1-CA-DC12
	SPST-NO	24DC	115.2	30A @ 400VDC	High Voltage DC	Z1615-ND	193.52	174.18	154.82	139.34	G9EA-1-CA-DC24
	SPST-NO	12DC	28.8	30A @ 400VDC	High Voltage DC	Z1616-ND	193.52	174.18	154.82	139.34	G9EA-1-B-CA-DC12
	SPST-NO	24DC	115.2	30A @ 400VDC	High Voltage DC	Z1617-ND	193.52	174.18	154.82	139.34	G9EA-1-B-CA-DC24
	SPST-NO	12DC	28.8	25A @ 400VDC	High Voltage DC	Z2304-ND	146.68	132.01	117.35	105.61	G9EB-1-B-DC12
	SPST-NO	24DC	115.2	25A @ 400VDC	High Voltage DC	Z2305-ND	146.68	132.01	117.35	105.61	G9EB-1-B-DC24
8	SPST-NO	12VDC	12.8	200A @ 400VDC	High Voltage DC	Z1618-ND	327.50	294.76	262.01	235.81	G9EC-1-B DC12
	SPST-NO	24VDC	51.2	200A @ 400VDC	High Voltage DC	Z1619-ND	327.50	294.76	262.01	235.81	G9EC-1-B DC24
	SPST-NO	12VDC	12.8	200A @ 400VDC	High Voltage DC	Z1620-ND	327.50	294.76	262.01	235.81	G9EC-1 DC12
	SPST-NO	24VDC	51.2	200A @ 400VDC	High Voltage DC	Z1621-ND	497.43	447.69	397.95	358.16	G9EC-1 DC24
Plug-In Safety Relays											
9	2x 3PST	24VDC	800	6A @ 30VDC	Force-guided Contacts	Z2363-ND	47.69	44.16	41.22	38.27	G7S-3A3B-DC24
	6PST	24VDC	800	6A @ 30VDC	Force-guided Contacts	Z2362-ND	47.69	44.16	41.22	38.27	G7S-4A2B-DC24
	4PST	24VDC	1,600	6A @ 30VDC	Force-guided Contacts	Z2943-ND ***NEW!***	41.16	37.05	32.93	29.64	G7SA-3A1B-DC24
	6PST	24VDC	1,152	6A @ 30VDC	Force-guided Contacts	Z2626-ND	55.74	50.17	44.59	40.13	G7SA-4A2B-DC24
	6PST	24VDC	1,152	6A @ 30VDC	Force-guided Contacts	Z2944-ND ***NEW!***	55.74	50.17	44.59	40.13	G7SA-5A1B-DC24
—	Front Connecting Socket for G7L Power Relay					Z2892-ND	17.47	15.72	13.98	12.58	P7LF-06
	DIN Rail Socket with Screw Terminals for G7S Safety Relay					Z2417-ND	30.58	28.32	26.43	24.54	P7S-14F
	PCB Mount Socket for G7S Safety Relay					Z2418-ND	12.34	11.43	10.67	9.91	P7S-14P
	DIN Rail Socket with Screw Terminals for G7SA Safety Relay					Z2947-ND ***NEW!***	40.82	36.74	32.66	29.39	P7SA-10F
	DIN Rail Socket with Screw Terminals for G7SA Safety Relay					Z2627-ND	41.62	37.46	33.30	29.97	P7SA-14F
	Mounting Socket for G7SA Safety Relay					Z2628-ND	11.66	10.50	9.33	8.40	P7SA-14P
	Back Connecting Socket for MY2 Power Relay					Z2893-ND	1.51	1.36	1.21	1.09	PY08-02

§ Use 4PDT MY or MY2 Sockets

Fig. 6

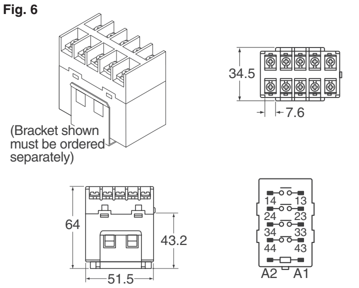

(Bracket shown must be ordered separately)

Fig. 7

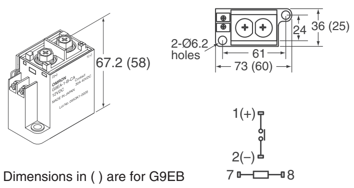

Dimensions in ( ) are for G9EB

Fig. 8

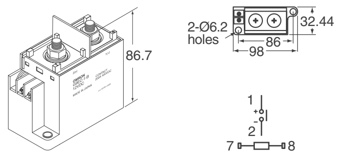

Fig. 9

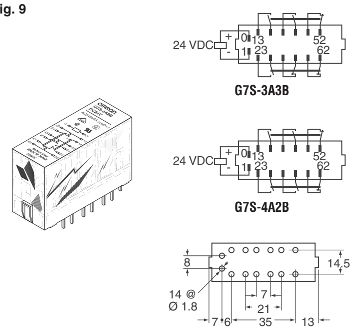

Relay Sockets and Accessories

Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
LY	SPDT/DPDT Track Mounted Relay Sockets; Finger Safe Terminals	Z791-ND	5.90	5.31	4.72	4.25	PTF08A-E
LY	3PDT Track Mounted Relay Sockets	Z2606-ND	8.04	7.24	6.44	5.79	PTF11A
LY	4PDT Track Mounted Relay Sockets; Finger Safe Terminals	Z2612-ND	8.84	7.96	7.08	6.37	PTF14A-E
LY	SPDT/DPDT Back Connecting Sockets; PCB Mount	Z792-ND	2.14	1.93	1.72	1.55	PT08-0
LY	SPDT/DPDT Back Connecting Sockets; Solder Ear	Z793-ND	2.14	1.93	1.72	1.55	PT08
LY/MY	Socket Mounting Plate for Back Connect Sockets	Z794-ND	.33	.30	.27	.24	PYP-1
LY/MY	Relay Hold-Down Clip for Track Mounted Sockets	Z795-ND	.33	.30	.27	.24	PYC-A1
LY/MY	Relay Hold-Down Clip for Back Connecting Sockets	Z796-ND	.33	.30	.27	.24	PYC-P
MY2	DPDT Track Mounted Relay Sockets; Open Terminals	Z2948-ND ***NEW!***	6.71	6.04	5.37	4.83	PYF-08A
MY2	DPDT Track Mounted Relay Sockets; Finger Safe Terminals	Z882-ND	6.06	5.46	4.85	4.37	PYF08A-E
MY2	Screwless Socket (Wire Trap) Type for MY2 Series	Z2062-ND	7.40	6.67	5.93	5.33	PYF08S
MY3	3PDT Track Mounted Relay Sockets; Open Terminals	Z2288-ND	8.28	7.46	6.63	5.97	PYF11A
MY4/MY2K	4PDT Track Mounted Relay Sockets; Finger Safe Terminals	Z811-ND	8.81	7.94	7.06	6.35	PYF14A-E
MY4/MY2K	4PDT Track Mounted Relay Sockets; (-55°C max. Temperature)	Z2614-ND	8.55	7.70	6.85	6.16	PYF14A-N
MY4/MY2K	4PDT Back Connecting Sockets; Panel Mount	Z812-ND	2.10	1.90	1.69	1.52	PY14
MY4/MY2K	4PDT Back Connecting Sockets; PCB Mount	Z813-ND	2.10	1.90	1.69	1.52	PY14-02
MY4/MY2K	Screwless Socket (Wire Trap) Type for MY4 Series	Z2063-ND	12.18	10.97	9.75	8.78	PYF14S
MY4	Tool for MY4 Series Screwless Sockets	Z1670-ND	12.80	11.52	10.24	9.22	PYF-S-TOOL
MK	DPDT Track Mounted Relay Sockets; Finger Safe Terminals	Z805-ND	5.53	4.98	4.43	3.99	PF083A-E
MK	DPDT Connecting Sockets; Panel Mount	Z836-ND	5.59	5.04	4.48	4.03	PL08
MK	DPDT Connecting Sockets; PCB Mount	Z837-ND	3.67	3.31	2.94	2.65	PLE08-0
MK	3PDT Track Mounted Relay Sockets; Finger Safe Terminals	Z806-ND	7.83	7.05	6.27	5.64	PF113A-E
MK	3PDT Connecting Sockets; Panel Mount	Z838-ND	2.69	2.43	2.16	1.94	PL11
MK	3PDT Connecting Sockets; PCB Mount	Z839-ND	4.75	4.28	3.80	3.42	PLE11-0
ALL	1.0m (3.28ft.) DIN Rail Tracks (Low profile)	Z840-ND	7.49	6.74	5.99	5.40	PFP100N
ALL	0.5m (1.64ft.) DIN Rail Tracks (Low profile)	Z841-ND	6.09	5.48	4.87	4.39	PFP50N
ALL	1.0m (3.28ft.) DIN Rail Tracks (High profile)	Z2611-ND	15.97	14.38	12.78	11.50	PFP-100N2
—	End Stop Plate for Din Track Rails	Z887-ND	.81	.74	.66	.59	PFP-M
—	W-Bracket for Omron Relays	Z1238-ND	1.48	1.34	1.19	1.07	R9904FORG5F
G7L	Track Mounting Adapter for G7L Relays	Z2940-ND	8.06	7.26	6.46	5.81	P7LF-D

High Frequency Relays

Dimensions in mm
Bottom view shown

Fig. 1 — *ARA Series*

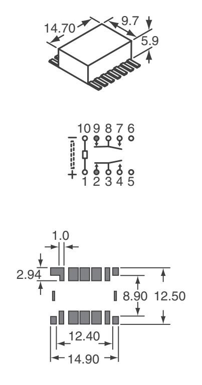

Fig. 2 — *ARE Series*

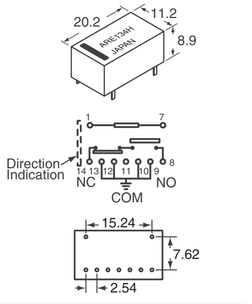

Surface Mount

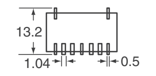

Fig. 3 — *ARJ Series*

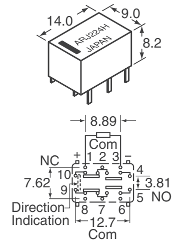

Dual Coil Latching

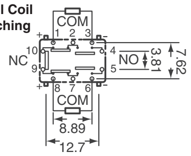

Fig. 4 — *RK Series*

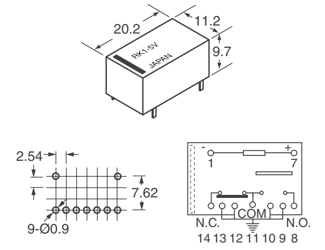

Dual Coil Latching

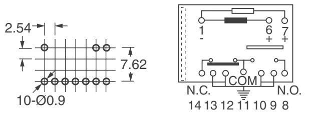

Fig. 5 — *RP Series*

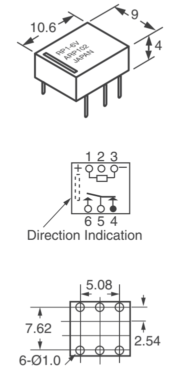

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	Pickup/ Dropout/ Maximum Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
						ARA Series High Frequency Relays						
1	DPDT	3DC	64.3	46.7	1	2.25/0.3/4.5	255-2155-5-ND	28.44	26.13	23.22	19.74	ARA200A03
	DPDT	4.5DC	145	31	1	3.37/0.45/6.75	255-2158-5-ND	28.44	26.13	23.22	19.74	ARA200A4H
	DPDT	5DC	178	28.1	1	3.75/0.5/6.75	255-2156-5-ND	28.44	26.13	23.22	19.74	ARA200A05
	DPDT	12DC	1,028	11.7	1	9/1.2/18	255-2157-5-ND	28.44	26.13	23.22	19.74	ARA200A12
						ARE Series High Frequency Relays						
2	SPDT-NO/NC	4.5DC	101	44.40	0.5	4.5/0.45/3.38	255-2700-ND ***NEW!***	5.51	5.07	4.50	3.83	ARE104H
	SPDT-NO/NC	4.5DC	101	44.40	0.5	3.375/0.45/4.95	255-1573-ND	5.64	5.18	4.60	3.91	ARE134H
	SPDT-NO/NC	12DC	720	16.70	0.5	9/1.2/13.2	255-1572-ND	5.64	5.18	4.60	3.91	ARE1312
						ARE Series Surface Mount High Frequency Relays						
2	SPDT-NO/NC	4.5DC	101	44.40	0.5	3.375/0.45/4.95	255-1575-5-ND	6.13	5.63	5.00	4.25	ARE13A4H
	SPDT-NO/NC	12DC	720	16.70	0.5	9/1.2/13.2	255-1574-5-ND	6.13	5.63	5.00	4.25	ARE13A12
						ARJ Series High Frequency Relays						
3	DPDT	4.5DC	101.2	44.4	0.3	3.375/0.45/4.95	255-1461-ND	164.44	151.02	134.24	114.11	ARJ20A4H
	DPDT	12DC	720	16.6	0.3	9/1.2/13.2	255-1462-ND	164.44	151.02	134.24	114.11	ARJ20A12
						ARJ Series Dual Coil Latching High Frequency Relays						
3	DPDT	4.5DC	135	33.3	0.3	3.375/3.375/4.95	255-1579-ND	164.44	151.02	134.24	114.11	ARJ22A4H
	DPDT	12DC	960	12.5	0.3	9/9/13.2	255-1578-ND	164.44	151.02	134.24	114.11	ARJ22A12
						RK Series High Frequency Relays						
4	SPDT	5DC	125	40	0.01	3.75/0.5/5.5	255-1085-ND	10.68	9.81	8.72	7.42	RK1-5V
	SPDT	6DC	180	34	0.01	4.5/0.6/6.6	255-1086-ND	10.68	9.81	8.72	7.42	RK1-6V
	SPDT	12DC	720	17	0.01	9/1.2/13.2	255-1087-ND	10.68	9.81	8.72	7.42	RK1-12V
	SPDT	24DC	2,880	9	0.01	18/2.4/26.4	255-1088-ND	11.00	10.11	8.98	7.64	RK1-24V
						NEW! RK Series Dual Coil Latching High Frequency Relays NEW!						
4	SPDT	12DC	360	33.3	0.01@24VDC	12/—/9	255-2832-ND	11.76	10.80	9.60	8.16	RK1-L2-12V
						RP Series High Frequency Low Profile Relays						
5	SPDT	5DC	178	28	0.1	3.75/0.5/7.5	255-1089-ND	25.16	23.11	20.54	17.46	RP1-5V
	SPDT	12DC	1,028	11.7	0.1	9/1.2/18	255-1090-ND	25.16	23.11	20.54	17.46	RP1-12V
						NEW! RS Series Miniature Microwave Relays NEW!						
6A	SPDT	3DC	45	66.7	0.5	3/0.3/2.25	255-2701-ND	8.33	7.65	6.80	5.78	ARS14A03
	SPDT	12DC	720	16.7	0.5	12/1.2/9	255-2702-ND	8.33	7.65	6.80	5.78	ARS14A12
	SPDT	24DC	2,880	8.3	0.5	24/2.4/18	255-2703-ND	9.51	8.73	7.76	6.60	ARS14A24
	SPDT	4.5DC	101.3	44.4	0.5	4.5/0.45/3.38	255-2704-ND	8.33	7.65	6.80	5.78	ARS14A4H
	SPDT	3DC	45	66.7	0.5	3/0.3/2.25	255-2705-ND	8.33	7.65	6.80	5.78	ARS14Y03
	SPDT	12DC	720	16.7	0.5	12/1.2/9	255-2706-ND	8.33	7.65	6.80	5.78	ARS14Y12
	SPDT	24DC	2,880	8.3	0.5	24/2.4/18	255-2707-ND	9.51	8.73	7.76	6.60	ARS14Y24
	SPDT	4.5DC	101.3	44.4	0.5	4.5/0.45/3.38	255-2708-ND	8.33	7.65	6.80	5.78	ARS14Y4H
6B	SPDT	12DC	720	16.7	0.5	12/—/9	255-2709-ND	8.33	7.65	6.80	5.78	ARS15A12
	SPDT	24DC	2,880	8.3	0.5	24/—/18	255-2710-ND	9.51	8.73	7.76	6.60	ARS15A24
	SPDT	12DC	720	16.7	0.5	12/—/9	255-2711-ND	8.33	7.65	6.80	5.78	ARS15Y12
	SPDT	24DC	2,880	8.3	0.5	24/—/18	255-2712-ND	9.51	8.73	7.76	6.60	ARS15Y24
6C	SPDT	12DC	720	16.7	0.5	12/1.2/9	255-2713-ND	8.33	7.65	6.80	5.78	ARS34A12
	SPDT	24DC	2,880	8.3	0.5	24/2.4/18	255-2714-ND	9.51	8.73	7.76	6.60	ARS34A24
	SPDT	12DC	720	16.7	0.5	12/1.2/9	255-2715-ND	8.33	7.65	6.80	5.78	ARS34Y12
	SPDT	24DC	2,880	8.3	0.5	24/2.4/18	255-2716-ND	9.51	8.73	7.76	6.60	ARS34Y24
						NEW! RX Series Small Microwave Relays NEW!						
7	SPDT	4.5DC	101	44.4	0.5	4.5/0.45/3.38	255-2717-ND	132.28	121.48	107.98	91.79	ARX104H
						NEW! RX-P Series Microwave Relays NEW!						
7	SPDT	3DC	45	66.7	0.5	3/0.3/2.25	255-2718-ND	172.09	158.04	140.48	119.41	ARXP1003
	SPDT	12DC	720	16.7	0.5	12/1.2/9	255-2719-ND	172.09	158.04	140.48	119.41	ARXP1012
	SPDT	24DC	2,880	8.3	0.5	24/2.4/18	255-2720-ND	172.09	158.04	140.48	119.41	ARXP1024
	SPDT	4.5DC	101	44.4	0.5	4.5/0.45/3.38	255-2721-ND	172.09	158.04	140.48	119.41	ARXP104H

Fig. 6 — *RS Series NEW!*

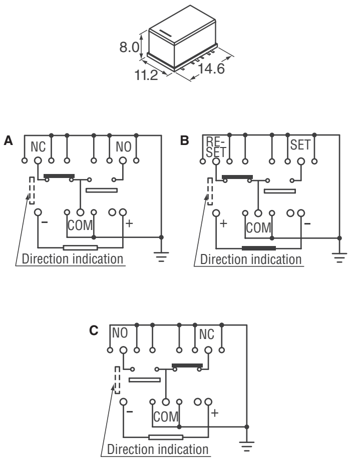

Fig. 7 — *RX Series NEW!*

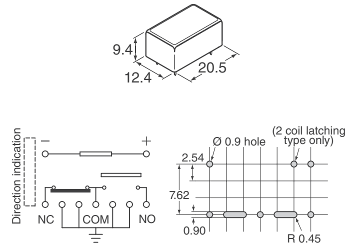

Signal Relays

Dimensions in mm
Bottom view shown (SMD's are top view)

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	125VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
							AGQ Series Low Signal Relays						
1A	DPDT	1.5DC	16	93.8	1	0.3	PC Mount Non-Latching	255-1356-5-ND	3.87	3.56	3.16	2.69	AGQ2001H
	DPDT	3DC	64.2	46.7	1	0.3		255-1505-5-ND	3.87	3.56	3.16	2.69	AGQ20003
	DPDT	4.5DC	145	31	1	0.3		255-1357-5-ND	3.87	3.56	3.16	2.69	AGQ2004H
	DPDT	12DC	1,028	11.7	1	0.3		255-1358-5-ND	3.87	3.56	3.16	2.69	AGQ20012
	DPDT	24DC	2,504	9.6	1	0.3		255-1359-5-ND	4.56	4.19	3.72	3.17	AGQ20024
	DPDT	3DC	90	33.3	1	0.3	High Sensitivity Non-Latching	255-2619-ND ***NEW!***	5.56	5.11	4.54	3.86	AGQ26003
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2622-ND ***NEW!***	5.56	5.11	4.54	3.86	AGQ2604H
	DPDT	12DC	1,440	8.3	1	0.3		255-2620-ND ***NEW!***	5.56	5.11	4.54	3.86	AGQ26012
	DPDT	24DC	4,800	5.0	1	0.3		255-2621-ND ***NEW!***	6.52	5.99	5.32	4.53	AGQ26024
1B	DPDT	3DC	90	33.3	1	0.3	PC Mount 1 Coil Latching	255-2948-ND ***NEW!***	4.24	3.90	3.46	2.95	AGQ21003
	DPDT	9DC	810	11.1	1	0.3		255-2949-ND ***NEW!***	4.24	3.90	3.46	2.95	AGQ21009

Fig. 1 — *AGQ Series – PCB*

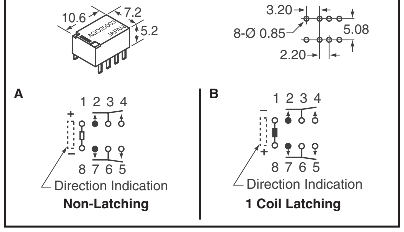

Non-Latching **1 Coil Latching**

† Tape and Reel

(Continued)

Fig. 2 — *AGQ Series – SMD*

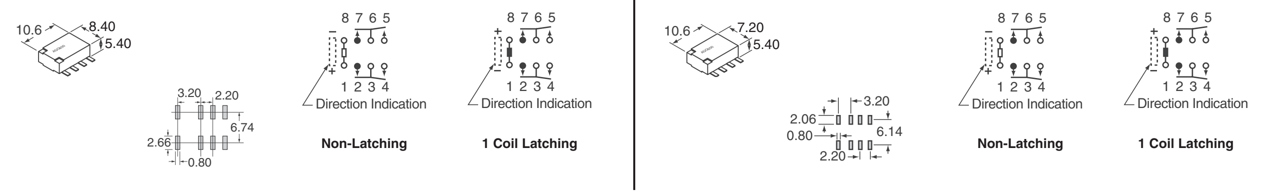
A — Long SMD

B — Short SMD

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	Contact Ratings (A) 125VAC	Additional Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Panasonic Part No.
1B	DPDT	4.5DC	202.5	22.2	1	0.3	PC Mount 1 Coil Latching	255-2092-5-ND	4.24	3.90	3.46	2.95	AGQ2104H
							AGQ Series Low Signal Relays SMD						
2A	DPDT	3DC	64.2	46.7	1	0.3	Long SMD Non-Latching	255-2091-5-ND	4.02	3.69	3.28	2.79	AGQ200A03
	DPDT	3DC	64.2	46.7	1	0.3		255-2091-2-ND†		2214.00/900			AGQ200A03Z
	DPDT	4.5DC	145	31	1	0.3		255-1860-ND	4.02	3.69	3.28	2.79	AGQ200A4H
	DPDT	4.5DC	145	31	1	0.3		255-1860-2-ND†		2214.00/900			AGQ200A4HZ
	DPDT	9DC	579	15.5	1	0.3		255-2315-ND ***NEW!***	4.02	3.69	3.28	2.79	AGQ200A09
	DPDT	12DC	1,028	11.7	1	0.3		255-1858-ND	4.02	3.69	3.28	2.79	AGQ200A12
	DPDT	24DC	2,504	9.6	1	0.3		255-1859-ND	4.70	4.32	3.84	3.27	AGQ200A24
	DPDT	3DC	90	33.3	1	0.3	Long SMD 1 Coil Latching	255-2617-ND ***NEW!***	4.34	3.99	3.54	3.01	AGQ210A03
	DPDT	3DC	90	33.3	1	0.3		255-2093-2-ND†		2389.50/900			AGQ210A03Z
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2618-ND ***NEW!***	4.34	3.99	3.54	3.01	AGQ210A4H
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2094-2-ND†		2389.50/900			AGQ210A4HZ
	DPDT	3DC	90	33.3	1	0.3	High Sensitivity Non-Latching	255-2623-ND ***NEW!***	5.73	5.27	4.68	3.98	AGQ260A03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2626-ND ***NEW!***	5.32	4.89	4.34	3.69	AGQ260A4H
	DPDT	12DC	1,440	8.3	1	0.3		255-2624-ND ***NEW!***	5.73	5.27	4.68	3.98	AGQ260A12
	DPDT	24DC	4,800	5.0	1	0.3		255-2625-ND ***NEW!***	6.66	6.12	5.44	4.63	AGQ260A24
2B	DPDT	1.5DC	16	93.8	1	0.3	Short SMD Non-Latching	255-1360-5-ND	4.34	3.99	3.54	3.01	AGQ200S1H
	DPDT	3DC	64.2	46.7	1	0.3		255-1361-5-ND	4.34	3.99	3.54	3.01	AGQ200S03
	DPDT	3DC	64.2	46.7	1	0.3		255-1361-2-ND†		2389.50/900			AGQ200S03Z
	DPDT	4.5DC	145	31	1	0.3		255-1362-5-ND	4.34	3.99	3.54	3.01	AGQ200S4H
	DPDT	12DC	1,028	11.7	1	0.3		255-1363-5-ND	4.34	3.99	3.54	3.01	AGQ200S12
	DPDT	24DC	2,504	9.6	1	0.3		255-1364-5-ND	5.02	4.62	4.10	3.49	AGQ200S24
	DPDT	3DC	90	33.3	1	0.3	Short SMD 1 Coil Latching	255-2095-2-ND†		2389.50/900			AGQ210S03Z
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2394-ND	4.34	3.99	3.54	3.01	AGQ210S4H
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2096-2-ND†		2389.50/900			AGQ210S4HZ
	DPDT	3DC	90	33.3	1	0.3	High Sensitivity Non-Latching	255-2627-ND ***NEW!***	5.73	5.27	4.68	3.98	AGQ260S03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2630-ND ***NEW!***	5.73	5.27	4.68	3.98	AGQ260S4H
	DPDT	12DC	1,440	8.3	1	0.3		255-2628-ND ***NEW!***	5.73	5.27	4.68	3.98	AGQ260S12
	DPDT	24DC	4,800	5.0	1	0.3		255-2629-ND ***NEW!***	6.66	6.12	5.44	4.63	AGQ260S24
							AGN Series Compact Low Signal Relays						
3A	DPDT	3DC	64.2	46.7	1	0.3	PC Mount Non-Latching	255-2085-5-ND	3.87	3.56	3.16	2.69	AGN20003
	DPDT	4.5DC	145	31	1	0.3		255-1230-5-ND	3.87	3.56	3.16	2.69	AGN2004H
	DPDT	6DC	257	23.3	1	0.3		255-2602-ND ***NEW!***	3.87	3.56	3.16	2.69	AGN20006
	DPDT	12DC	1,028	11.7	1	0.3		255-1231-5-ND	3.87	3.56	3.16	2.69	AGN20012
	DPDT	24DC	2,504	9.6	1	0.3		255-1232-5-ND	4.56	4.19	3.72	3.17	AGN20024
	DPDT	3DC	64.2	46.7	1	0.3	PC Mount 1 Coil Latching	255-1855-ND	4.24	3.90	3.46	2.95	AGN21003
	DPDT	4.5DC	145	31	1	0.3		255-1857-ND	4.24	3.90	3.46	2.95	AGN2104H
	DPDT	6DC	360	16.7	1	0.3		255-2947-ND ***NEW!***	4.24	3.90	3.46	2.95	AGN21006
	DPDT	12DC	202.5	22.2	1	0.3		255-1856-ND	4.24	3.90	3.46	2.95	AGN21012
	DPDT	3DC	90	33.3	1	0.3	PC Mount High Sensitivity Non-Latching	255-2605-ND ***NEW!***	5.56	5.11	4.54	3.86	AGN26003
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2608-ND ***NEW!***	5.56	5.11	4.54	3.86	AGN2604H
	DPDT	12DC	1,440	8.3	1	0.3		255-2606-ND ***NEW!***	5.56	5.11	4.54	3.86	AGN26012
	DPDT	24DC	4,800	5.0	1	0.3		255-2607-ND ***NEW!***	6.52	5.99	5.32	4.53	AGN26024
							AGN Series Compact Low Signal Relays SMD						
3B	DPDT	3DC	64.2	46.7	1	0.3	Long SMD Non-Latching	255-1504-5-ND	4.02	3.69	3.28	2.79	AGN200A03
	DPDT	3DC	64.2	46.7	1	0.3		255-1504-2-ND†		1230.00/500			AGN200A03Z
	DPDT	4.5DC	145	31	1	0.3		255-1233-5-ND	4.02	3.69	3.28	2.79	AGN200A4H
	DPDT	4.5DC	145	31	1	0.3		255-1233-2-ND†		1230.00/500			AGN200A4HZ
	DPDT	6DC	257	23.3	1	0.3		255-2086-5-ND	4.02	3.69	3.28	2.79	AGN200A06
	DPDT	12DC	1,028	11.7	1	0.3		255-1234-5-ND	4.02	3.69	3.28	2.79	AGN200A12
	DPDT	12DC	1,028	11.7	1	0.3		255-1234-2-ND†		1230.00/500			AGN200A12Z
	DPDT	24DC	2,504	9.6	1	0.3		255-1235-5-ND	4.70	4.32	3.84	3.27	AGN200A24
	DPDT	24DC	2,504	9.6	1	0.3		255-1235-2-ND†		1440.00/500			AGN200A24Z
	DPDT	3DC	90	33.3	1	0.3	Long SMD 1 Coil Latching	255-2603-ND ***NEW!***	4.34	3.99	3.54	3.01	AGN210A03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2089-5-ND	4.34	3.99	3.54	3.01	AGN210A4H
	DPDT	12DC	1,440	8.3	1	0.3		255-2975-ND ***NEW!***	4.34	3.99	3.54	3.01	AGN210A12
	DPDT	3DC	90	33.3	1	0.3	Long SMD High Sensitivity Non-Latching	255-2609-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260A03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2612-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260A4H
	DPDT	12DC	1,440	8.3	1	0.3		255-2610-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260A12
	DPDT	24DC	4,800	5.0	1	0.3		255-2611-ND ***NEW!***	6.66	6.12	5.44	4.63	AGN260A24
	DPDT	3DC	64.2	46.7	1	0.3	Short SMD Non-Latching	255-2087-5-ND	4.02	3.69	3.28	2.79	AGN200S03
	DPDT	3DC	64.2	46.7	1	0.3		255-2087-2-ND†		1140.00/500			AGN200S03Z
	DPDT	4.5DC	145	31	1	0.3		255-1854-ND	4.02	3.69	3.28	2.79	AGN200S4H
	DPDT	4.5DC	145	31	1	0.3		255-1854-2-ND†		1140.00/500			AGN200S4HZ
	DPDT	12DC	202.5	22.2	1	0.3		255-1853-ND	4.02	3.69	3.28	2.79	AGN200S12
	DPDT	12DC	1,028	11.7	1	0.3		255-1853-2-ND†		1140.00/500			AGN200S12Z
	DPDT	24DC	2,504	9.6	1	0.3		255-2088-2-ND†		1440.00/500			AGN200S24Z
	DPDT	24DC	2,504	9.6	1	0.3		255-2946-ND ***NEW!***	4.70	4.32	3.84	3.27	AGN200S24
	DPDT	3DC	90	33.3	1	0.3	Short SMD 1 Coil Latching	255-2604-ND ***NEW!***	4.34	3.99	3.54	3.01	AGN210S03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2090-5-ND	4.34	3.99	3.54	3.01	AGN210S4H
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2090-2-ND†		1327.50/500			AGN210S4HZ
	DPDT	3DC	90	33.3	1	0.3	Short SMD High Sensitivity Non-Latching	255-2613-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260S03
	DPDT	4.5DC	202.5	22.2	1	0.3		255-2616-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260S4H
	DPDT	12DC	1,440	8.3	1	0.3		255-2614-ND ***NEW!***	5.73	5.27	4.68	3.98	AGN260S12
	DPDT	24DC	4,800	5.0	1	0.3		255-2615-ND ***NEW!***	6.66	6.12	5.44	4.63	AGN260S24
							DE Series High-Insulation Power Relay						
4	DPST	4.5DC	101	44.5	8	8	PC Mount	255-1904-ND	10.98	10.08	8.96	7.62	DE2A-4.5V
	DPST	12DC	720	16.6	8	8	PC Mount	255-1903-ND	10.98	10.08	8.96	7.62	DE2A-12V

† Tape and Reel

Fig. 3 — *AGN Series*

A — PCB

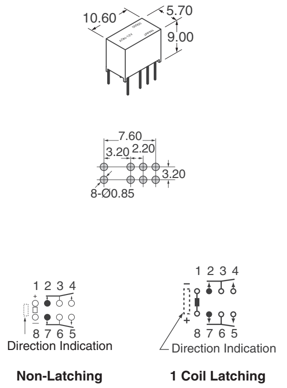

B — SMD

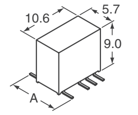

Type	Dim. A (mm)
A (Long)	7.40
S (Short)	5.70

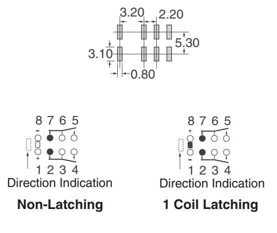

Long SMD — A Type

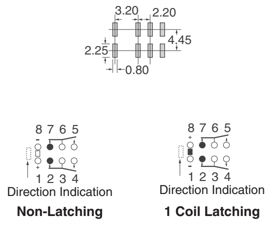

Short SMD — S Type

(Continued)

Fig. 4 — *DE Series – PCB*

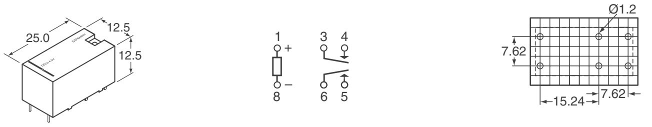

Fig. 5 — *DS Series – PCB*

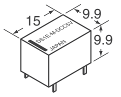

DS1E

A

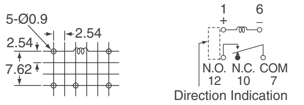

Non-Latching

B

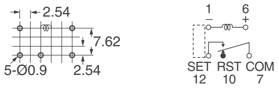

1 Coil Latching

C

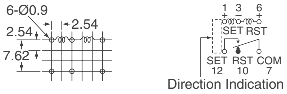

2 Coil Latching

Fig. 6 — *DS Series – PCB*

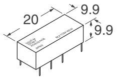

DS2E

A

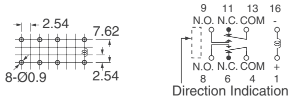

Non-Latching

B

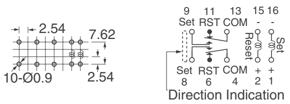

2 Coil Latching

Fig.	Contact Arrangement	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
DS Series Relays (High Sensitivity and Standard Coils)													
5A	SPDT	3DC	45	—	2	2	Sensitive Coil Non-Latching	255-1478-ND	7.62	7.00	6.22	5.29	DS1E-S-DC3V
	SPDT	5DC	125	—	2	2		255-1609-ND	7.62	7.00	6.22	5.29	DS1E-S-DC5V
	SPDT	6DC	180	33.3	2	2		255-2740-ND ***NEW!***	7.62	7.00	6.22	5.29	DS1E-S-DC6V
	SPDT	12DC	720	—	2	2		255-1607-ND	7.62	7.00	6.22	5.29	DS1E-S-DC12V
	SPDT	24DC	2,880	—	2	2		255-1608-ND	7.62	7.00	6.22	5.29	DS1E-S-DC24V
	SPDT	48DC	11,520	4.2	2	2		255-2739-ND ***NEW!***	10.05	9.23	8.20	6.97	DS1E-S-DC48V
	SPDT	5DC	62.5	80	2	2	Standard Coil Non-Latching	255-1474-ND	5.39	4.95	4.40	3.74	DS1E-M-DC5V
	SPDT	12DC	360	33.3	2	2		255-1473-ND	5.39	4.95	4.40	3.74	DS1E-M-DC12V
	SPDT	12DC	360	33.3	2	2		255-2192-ND	5.39	4.95	4.40	3.74	DS1E-M-DC12V-TB
	SPDT	24DC	1,440	16.3	2	2		255-1605-ND	5.39	4.95	4.40	3.74	DS1E-M-DC24V
	SPDT	48DC	5,760	8.2	2	2		255-2738-ND ***NEW!***	6.88	6.33	5.62	4.78	DS1E-M-DC48V
5B	SPDT	5DC	139	35.9	2	2	Standard Coil 1 Coil Latching	255-2195-ND	6.30	5.79	5.14	4.37	DS1E-ML-DC5V
	SPDT	12DC	800	15	2	2		255-2193-ND	6.30	5.79	5.14	4.37	DS1E-ML-DC12V
	SPDT	24DC	3,200	7.5	2	2		255-2194-ND	6.30	5.79	5.14	4.37	DS1E-ML-DC24V
	SPDT	3DC	45	66.6	2	2	Sensitive Coil 1 Coil Latching	255-1993-ND	8.48	7.79	6.92	5.89	DS1E-SL-DC3V
	SPDT	5DC	125	40	2	2		255-1994-ND	8.48	7.79	6.92	5.89	DS1E-SL-DC5V
	SPDT	12DC	720	16.6	2	2		255-1872-ND	8.50	7.81	6.94	5.90	DS1E-SL-DC12V
	SPDT	24DC	2880	8.3	2	2		255-1995-ND	8.50	7.81	6.94	5.90	DS1E-SL-DC24V
5C	SPDT	5DC	69.4	—	2	2	Standard Coil 2 Coil Latching	255-1477-ND	6.03	5.54	4.92	4.19	DS1E-ML2-DC5V
	SPDT	6DC	100	60	2	2		255-2196-ND	6.03	5.54	4.92	4.19	DS1E-ML2-DC6V
	SPDT	12DC	400	—	2	2		255-1475-ND	6.03	5.54	4.92	4.19	DS1E-ML2-DC12V
	SPDT	24DC	1,600	—	2	2		255-1606-ND	6.03	5.54	4.92	4.19	DS1E-ML2-DC24V
	SPDT	3DC	45	66.6	2	2	Sensitive Coil 2 Coil Latching	255-1873-ND	8.21	7.54	6.70	5.70	DS1E-SL2-DC3V
6A	DPDT	1.5DC	11.3	132.7	2	2	Sensitive Coil Non-Latching	255-2198-ND	4.68	4.30	3.82	3.25	DS2E-S-DC1.5V
	DPDT	3DC	45	66.6	2	2		255-1874-ND	4.68	4.30	3.82	3.25	DS2E-S-DC3V
	DPDT	5DC	125	40	2	2		255-1062-ND	4.68	4.30	3.82	3.25	DS2E-S-DC5V
	DPDT	6DC	180	30	2	2		255-1610-ND	4.68	4.30	3.82	3.25	DS2E-S-DC6V
	DPDT	9DC	405	22.2	2	2		255-2200-ND	4.68	4.30	3.82	3.25	DS2E-S-DC9V
	DPDT	12DC	720	16.6	2	2		255-1063-ND	4.68	4.30	3.82	3.25	DS2E-S-DC12V
	DPDT	24DC	2,880	8.3	2	2		255-1064-ND	4.68	4.30	3.82	3.25	DS2E-S-DC24V
	DPDT	48DC	11,520	4.1	2	2		255-1065-ND	6.35	5.83	5.18	4.41	DS2E-S-DC48V
	DPDT	48DC	11,520	4.1	2	2		255-2199-ND	6.35	5.83	5.18	4.41	DS2E-S-DC48V-TB
	DPDT	5DC	62.5	80	2	2	Standard Coil Non-Latching	255-1070-ND	3.75	3.45	3.06	2.61	DS2E-M-DC5V
	DPDT	9DC	203	60	2	2		255-1479-ND	3.75	3.45	3.06	2.61	DS2E-M-DC9V
	DPDT	12DC	360	33.2	2	2		255-1071-ND	3.75	3.45	3.06	2.61	DS2E-M-DC12V
	DPDT	24DC	1,440	16.6	2	2		255-1072-ND	3.75	3.45	3.06	2.61	DS2E-M-DC24V
	DPDT	48DC	5,760	8.3	2	2		255-1073-ND	4.70	4.32	3.84	3.27	DS2E-M-DC48V
6B	DPDT	3DC	25	—	2	2	Standard Coil 2 Coil Latching	255-1480-ND	4.48	4.12	3.66	3.12	DS2E-ML2-DC3V
	DPDT	5DC	69.4	72	2	2		255-1074-ND	4.48	4.12	3.66	3.12	DS2E-ML2-DC5V
	DPDT	9DC	225	40	2	2		255-2197-ND	4.48	4.12	3.66	3.12	DS2E-ML2-DC9V
	DPDT	12DC	400	30	2	2		255-1075-ND	4.48	4.12	3.66	3.12	DS2E-ML2-DC12V
	DPDT	24DC	1,600	15	2	2		255-1076-ND	4.48	4.12	3.66	3.12	DS2E-ML2-DC24V
	DPDT	48DC	6,400	7.5	2	2		255-1077-ND	5.98	5.49	4.88	4.15	DS2E-ML2-DC48V
	DPDT	5DC	139	35.9	2	2	Sensitive Coil 2 Coil Latching	255-1066-ND	5.54	5.09	4.52	3.85	DS2E-SL2-DC5V
	DPDT	6DC	180	30	2	2		255-2741-ND ***NEW!***	5.54	5.09	4.52	3.85	DS2E-SL2-DC6V
	DPDT	9DC	405	22.2	2	2		255-2742-ND ***NEW!***	5.54	5.09	4.52	3.85	DS2E-SL2-DC9V
	DPDT	12DC	800	15	2	2		255-1067-ND	5.54	5.09	4.52	3.85	DS2E-SL2-DC12V
	DPDT	24DC	3,200	7.5	2	2		255-1068-ND	5.54	5.09	4.52	3.85	DS2E-SL2-DC24V
	DPDT	48DC	12,800	3.25	2	2		255-1069-ND	6.59	6.06	5.38	4.58	DS2E-SL2-DC48V
DS2Y Series Low Signal Relays													
7	DPDT	5DC	125	40	2	2	Sensitive Coil	255-1078-ND	3.06	2.82	2.50	2.13	DS2Y-S-DC5V
	DPDT	6DC	200	33.3	2	2	Sensitive Coil	255-2201-ND	3.06	2.82	2.50	2.13	DS2Y-S-DC6V
	DPDT	9DC	450	22.2	2	2	Sensitive Coil	255-2202-ND	3.06	2.82	2.50	2.13	DS2Y-S-DC9V
	DPDT	12DC	720	16.7	2	2	Sensitive Coil	255-1079-ND	3.06	2.82	2.50	2.13	DS2Y-S-DC12V
	DPDT	24DC	2,880	8.3	2	2	Sensitive Coil	255-1080-ND	3.19	2.93	2.60	2.21	DS2Y-S-DC24V
	DPDT	48DC	7,680	6.3	2	2	Sensitive Coil	255-1081-ND	4.26	3.92	3.48	2.96	DS2Y-S-DC48V
HY Series General Purpose Relays													
8	SPDT	3DC	60	50	1	—	High Sensitivity	255-1391-ND	3.65	3.36	2.98	2.54	HY1-3V
	SPDT	5DC	166	30.1	1	—	High Sensitivity	255-1092-ND	3.65	3.36	2.98	2.54	HY1-5V
	SPDT	12DC	960	12.5	1	—	High Sensitivity	255-1093-ND	3.65	3.36	2.98	2.54	HY1-12V
	SPDT	24DC	3,840	6.25	1	—	High Sensitivity	255-1094-ND	4.58	4.21	3.74	3.18	HY1-24V
	SPDT	5DC	125	40	1	—	PC Mount	255-1799-5-ND	3.33	3.06	2.72	2.32	HY1Z-5V
	SPDT	6DC	180	33.3	1	—	PC Mount	255-1800-5-ND	3.33	3.06	2.72	2.32	HY1Z-6V
	SPDT	12DC	720	16.7	1	—	PC Mount	255-1797-5-ND	3.33	3.06	2.72	2.32	HY1Z-12V
ASX Series Low Signal Relays													
9A	DPDT	3DC	180	16.7	.01	.01	PC Mount Non-Latching	255-1402-5-ND	6.39	5.88	5.22	4.44	ASX20003
	DPDT	4.5DC	405	11.1	.01	.01		255-1403-5-ND	6.39	5.88	5.22	4.44	ASX2004H
	DPDT	12DC	2,880	4.2	.01	.01		255-1404-5-ND	6.39	5.88	5.22	4.44	ASX20012
	DPDT	24DC	8,229	2.9	.01	.01		255-1405-5-ND	7.30	6.71	5.96	5.07	ASX20024
9B	DPDT	1.5DC	64.3	23.3	.01	.01	PC Mount 1 Coil Latching	255-1870-ND	7.18	6.60	5.86	4.99	ASX2101H
	DPDT	3DC	257	11.7	.01	.01		255-1580-5-ND	7.18	6.60	5.86	4.99	ASX21003
	DPDT	4.5DC	579	7.8	.01	.01		255-1583-5-ND	7.18	6.60	5.86	4.99	ASX2104H

† Tape and Reel

(Continued)

Fig. 7 — *DS2Y Series – PCB*

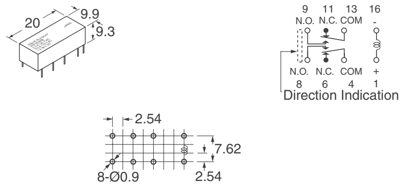

Fig. 8 — *HY Series – PCB*

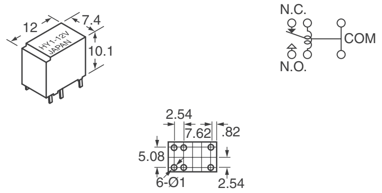

Fig. 9 — *ASX Series – PCB*

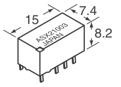

A

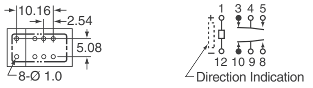

Non-Latching

B

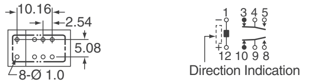

1 Coil Latching

C

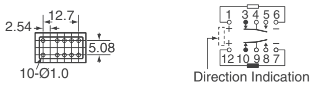

2 Coil Latching

Fig. 10 — *ASX Series - SMD*

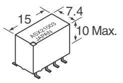

A

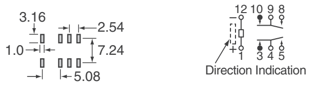

Non-Latching

B

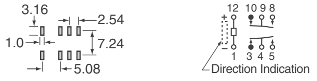

1 Coil Latching

C *NEW!*

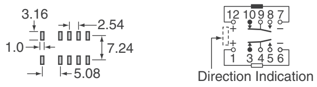

2 Coil Latching

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
9B	DPDT	12DC	4,114	2.9	.01	.01	PC Mount 1 Coil Latching	255-1581-5-ND	7.18	6.60	5.86	4.99	ASX21012
	DPDT	24DC	11,520	2.10	.01	.01		255-1582-5-ND	7.79	7.16	6.36	5.41	ASX21024
9C	DPDT	4.5DC	289	15.6	.01	.01	PC Mount 2 Coil Latching	255-1591-5-ND	7.30	6.71	5.96	5.07	ASX2204H
10A	DPDT	3DC	180	16.7	.01	.01	SMD Mount Non-Latching	255-1406-5-ND	6.64	6.10	5.42	4.61	ASX200A03
	DPDT	4.5DC	405	11.1	.01	.01		255-1407-5-ND	6.64	6.10	5.42	4.61	ASX200A4H
	DPDT	12DC	2,880	4.2	.01	.01		255-1408-5-ND	6.64	6.10	5.42	4.61	ASX200A12
	DPDT	24DC	8,229	2.9	.01	.01		255-1409-5-ND	7.60	6.98	6.20	5.27	ASX200A24
10B	DPDT	3DC	257	11.7	.01	.01	SMD Mount 1 Coil Latching	255-1584-5-ND	7.40	6.80	6.04	5.14	ASX210A03
	DPDT	4.5DC	579	7.8	.01	.01		255-1587-5-ND	7.40	6.80	6.04	5.14	ASX210A4H
	DPDT	12DC	4,114	2.9	.01	.01		255-1585-5-ND	7.40	6.80	6.04	5.14	ASX210A12
	DPDT	24DC	11,520	2.1	.01	.01		255-1586-5-ND	8.04	7.38	6.56	5.58	ASX210A24
10C	DPDT	4.5DC	289	15.6	.01	.01	SMD Mount 2 Coil Latching	255-2722-ND ***NEW!***	7.60	6.98	6.20	5.27	ASX220A4H
TK Series Low Signal Relays													
11A	SPDT	3DC	64.3	46.7	2	0.5	Low Profile Non-Latching	255-1756-5-ND	5.07	4.66	4.14	3.52	TK1-3V
	SPDT	4.5DC	145	31.1	2	0.5		255-1757-5-ND	5.07	4.66	4.14	3.52	TK1-4.5V
	SPDT	5DC	178	28.1	2	0.5		255-1028-5-ND	5.07	4.66	4.14	3.52	TK1-5V
	SPDT	9DC	579	15.5	2	0.5		255-1758-5-ND	5.07	4.66	4.14	3.52	TK1-9V
	SPDT	12DC	1,028	11.7	2	0.5		255-1029-5-ND	5.07	4.66	4.14	3.52	TK1-12V
	SPDT	24DC	2,133	11.3	2	0.5		255-1030-5-ND	5.83	5.36	4.76	4.05	TK1-24V
11B	SPDT	4.5DC	202.5	22.2	2	0.5	Low Profile 1 Coil Latching	255-2254-ND	5.56	5.11	4.54	3.86	TK1-L-4.5V
	SPDT	5DC	250	20	2	0.5		255-1764-5-ND	5.56	5.11	4.54	3.86	TK1-L-5V
	SPDT	6DC	360	16.7	2	0.5		255-2255-ND	5.56	5.11	4.54	3.86	TK1-L-6V
	SPDT	12DC	1,440	8.3	2	0.5		255-1759-5-ND	5.56	5.11	4.54	3.86	TK1-L-12V
	SPDT	24DC	3,840	6.3	2	0.5		255-1762-5-ND	6.32	5.81	5.16	4.39	TK1-L-24V
11C	SPDT	3DC	45	66.7	2	0.5	Low Profile 2 Coil Latching	255-2850-ND ***NEW!***	6.49	5.97	5.30	4.51	TK1-L2-3V
	SPDT	12DC	576	20.8	2	0.5		255-1760-5-ND	6.49	5.97	5.30	4.51	TK1-L2-12V
	SPDT	24DC	1,440	16.7	2	0.5		255-1761-5-ND	7.20	6.62	5.88	5.00	TK1-L2-24V
TN Series Low Signal Relays													
12A	DPDT	3DC	64.3	46.7	1	0.5	PC Mount Non-Latching	255-1385-5-ND	4.48	4.12	3.66	3.12	TN2-3V
	DPDT	4.5DC	145	31.1	1	0.5		255-1765-5-ND	4.48	4.12	3.66	3.12	TN2-4.5V
	DPDT	5DC	178	28.1	1	0.5		255-1022-5-ND	4.48	4.12	3.66	3.12	TN2-5V
	DPDT	9DC	579	15.5	1	0.5		255-1386-5-ND	4.48	4.12	3.66	3.12	TN2-9V
	DPDT	12DC	1,028	11.7	1	0.5		255-1023-5-ND	4.48	4.12	3.66	3.12	TN2-12V
	DPDT	24DC	2,880	8.3	1	0.5		255-1024-5-ND	5.29	4.86	4.32	3.68	TN2-24V
	DPDT	48DC	7,680	6.25	1	0.5		255-2256-ND	6.88	6.33	5.62	4.78	TN2-48V
12B	DPDT	5DC	250	20	1	0.5	PC Mount 1 Coil Latching	255-2000-ND	5.29	4.86	4.32	3.68	TN2-L-5V
	DPDT	12DC	1,440	6.3	1	0.5		255-2001-ND	5.29	4.86	4.32	3.68	TN2-L-12V
	DPDT	24DC	3,840	8.3	1	0.5		255-2002-ND	6.03	5.54	4.92	4.19	TN2-L-24V
12C	DPDT	3DC	45	66.7	1	0.5	PC Mount 2 Coil Latching	255-2851-ND ***NEW!***	5.56	5.11	4.54	3.86	TN2-L2-3V
	DPDT	4.5DC	101.2	44.5	1	0.5		255-2852-ND ***NEW!***	5.56	5.11	4.54	3.86	TN2-L2-4.5V
	DPDT	5DC	125	40	1	0.5		255-1025-5-ND	5.56	5.11	4.54	3.86	TN2-L2-5V
	DPDT	12DC	720	16.7	1	0.5		255-1026-5-ND	5.56	5.11	4.54	3.86	TN2-L2-12V
	DPDT	24DC	1,920	12.5	1	0.5		255-1027-5-ND	6.27	5.76	5.12	4.36	TN2-L2-24V
TQ Series Low Signal Relays													
13A	DPDT	3DC	64.3	46.7	1	0.5	PC Mount Non-Latching	255-1225-5-ND	3.01	2.77	2.46	2.10	TQ2-3V
	DPDT	4.5DC	144	31.1	1	0.5		255-1226-5-ND	3.01	2.77	2.46	2.10	TQ2-4.5V
	DPDT	5DC	178	28.1	1	0.5		255-1001-5-ND	3.01	2.77	2.46	2.10	TQ2-5V
	DPDT	6DC	257	23.3	1	0.5		255-2258-ND	3.01	2.77	2.46	2.10	TQ2-6V
	DPDT	9DC	579	15.50	1	0.5		255-1766-5-ND	3.01	2.77	2.46	2.10	TQ2-9V
	DPDT	12DC	1,028	11.7	1	0.5		255-1002-5-ND	3.01	2.77	2.46	2.10	TQ2-12V
	DPDT	24DC	2,880	8.3	1	0.5		255-1003-5-ND	3.63	3.33	2.96	2.52	TQ2-24V
	DPDT	48DC	7,680	6.25	1	0.5		255-1801-5-ND	4.68	4.30	3.82	3.25	TQ2-48V
	DPDT	5DC	178	28.1	1	0.5	PC Mount AgPd	255-2257-ND	3.01	2.77	2.46	2.10	TQ2-5V-3
	DPDT	5DC	178	28.1	1	0.5	PC Mount Self Clinch Term.	255-2261-ND	3.01	2.77	2.46	2.10	TQ2H-5V
	DPDT	12DC	1,028	11.7	1	0.5		255-2259-ND	3.01	2.77	2.46	2.10	TQ2H-12V
	DPDT	24DC	2,880	8.3	1	0.5		255-2260-ND	3.63	3.33	2.96	2.52	TQ2H-24V
13B	DPDT	3DC	90	33.3	1	0.5	PC Mount 1 Coil Latching	255-1492-5-ND	3.63	3.33	2.96	2.52	TQ2-L-3V
	DPDT	4.5DC	202.5	22.2	1	0.5		255-1769-5-ND	3.63	3.33	2.96	2.52	TQ2-L-4.5V
	DPDT	5DC	250	20	1	0.5		255-1004-5-ND	3.63	3.33	2.96	2.52	TQ2-L-5V
	DPDT	12DC	1,440	8.3	1	0.5		255-1005-5-ND	3.63	3.33	2.96	2.52	TQ2-L-12V
	DPDT	24DC	3840	12.5	1	0.5		255-1006-5-ND	4.09	3.76	3.34	2.84	TQ2-L-24V
13C	DPDT	3DC	45	66.7	1	0.5	PC Mount 2 Coil Latching	255-1767-5-ND	3.77	3.47	3.08	2.62	TQ2-L2-3V
	DPDT	4.5DC	101.2	44.4	1	0.5		255-1768-5-ND	3.77	3.47	3.08	2.62	TQ2-L2-4.5V
	DPDT	5DC	125	40	1	0.5		255-1007-5-ND	3.77	3.47	3.08	2.62	TQ2-L2-5V
	DPDT	9DC	405	22.2	1	0.5		255-1355-5-ND	3.77	3.47	3.08	2.62	TQ2-L2-9V
	DPDT	12DC	720	16.7	1	0.5		255-1008-5-ND	3.77	3.47	3.08	2.62	TQ2-L2-12V
	DPDT	24DC	1,920	12.5	1	0.5		255-1009-5-ND	4.29	3.94	3.50	2.98	TQ2-L2-24V
14A	4PDT	3DC	32	93.8	1	0.5	PC Mount Non-Latching	255-1890-ND	20.19	18.54	16.48	14.01	TQ4-3V
	4PDT	4.5DC	72.3	62.2	1	0.5		255-1777-5-ND	20.19	18.54	16.48	14.01	TQ4-4.5V
	4PDT	5DC	89	56.2	1	0.5		255-1013-5-ND	20.19	18.54	16.48	14.01	TQ4-5V
	4PDT	12DC	514	23.3	1	0.5		255-1014-5-ND	20.19	18.54	16.48	14.01	TQ4-12V
	4PDT	24DC	2,056	11.7	1	0.5		255-1015-5-ND	21.88	20.10	17.86	15.19	TQ4-24V
	4PDT	48DC	5,760	8.3	1	0.5		255-1891-ND	24.60	22.59	20.08	17.07	TQ4-48V
	4PDT	5DC	89	56.2	1	0.5	PC Mount AgPd	255-2290-5-ND	20.19	18.54	16.48	14.01	TQ4-5V-3

† Tape and Reel

(Continued)

Fig. 11 — ***TK Series – PCB***

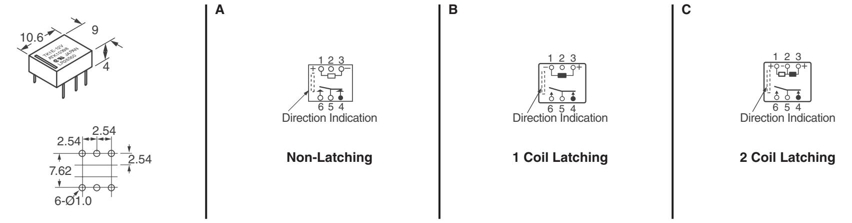

Non-Latching

1 Coil Latching

2 Coil Latching

Fig. 12 — ***TN Series – PCB***

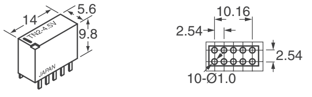

A

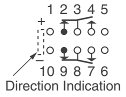

Non-Latching

B

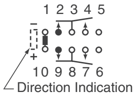

1 Coil Latching

C

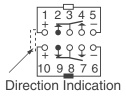

2 Coil Latching

Fig. 13 — ***TQ Series – PCB***

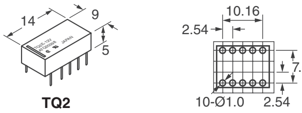

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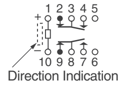

Non-Latching

B

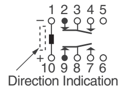

1 Coil Latching

C

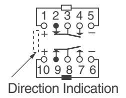

2 Coil Latching

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
14B	4PDT	4.5DC	50.6	88.9	1	0.5	PC Mount 2 Coil Latching	255-1779-5-ND	24.16	22.19	19.72	16.77	TQ4-L2-4.5V
	4PDT	5DC	62.5	80	1	0.5		255-1780-5-ND	24.16	22.19	19.72	16.77	TQ4-L2-5V
	4PDT	12DC	360	33.3	1	0.5		255-1493-5-ND	24.16	22.19	19.72	16.77	TQ4-L2-12V
	4PDT	24DC	1,440	16.7	1	0.5		255-1778-5-ND	25.80	23.70	21.06	17.91	TQ4-L2-24V
15A	DPDT	1.5DC	16	93.8	2	0.5	SA Type SMD Mount Non-Latching	255-1224-5-ND	3.43	3.15	2.80	2.38	TQ2SA-1.5V
	DPDT	1.5DC	16	93.8	2	0.5		255-1224-2-ND†	1050.00/500				TQ2SA-1.5V-Z
	DPDT	3DC	64.3	46.7	2	0.5		255-1228-5-ND	3.43	3.15	2.80	2.38	TQ2SA-3V
	DPDT	3DC	64.3	46.7	2	0.5		255-1228-2-ND†	1050.00/500				TQ2SA-3V-Z
	DPDT	4.5DC	145	31	2	0.5		255-1229-5-ND	3.43	3.15	2.80	2.38	TQ2SA-4.5V
	DPDT	4.5DC	145	31	2	0.5		255-1229-2-ND†	1050.00/500				TQ2SA-4.5V-Z
	DPDT	5DC	178	28.1	2	0.5		255-1010-5-ND	3.43	3.15	2.80	2.38	TQ2SA-5V
	DPDT	5DC	178	28.1	2	0.5		255-1010-2-ND†	1050.00/500				TQ2SA-5V-Z
	DPDT	6DC	257	23.3	2	0.5		255-2265-5-ND	3.43	3.15	2.80	2.38	TQ2SA-6V
	DPDT	12DC	1,028	11.7	2	0.5		255-1011-5-ND	3.43	3.15	2.80	2.38	TQ2SA-12V
	DPDT	12DC	1,028	11.7	2	0.5		255-1011-2-ND†	1050.00/500				TQ2SA-12V-Z
	DPDT	24DC	2,880	8.3	2	0.5		255-1012-5-ND	4.09	3.76	3.34	2.84	TQ2SA-24V
	DPDT	24DC	2,880	8.3	2	0.5		255-2263-2-ND†	1252.50/500				TQ2SA-24V-Z
	DPDT	24DC	2,880	8.3	2	0.5		255-2262-2-ND†	1252.50/500				TQ2SA-24V-X
	DPDT	48DC	7,680	6.3	2	0.5		255-2264-5-ND	5.27	4.84	4.30	3.66	TQ2SA-48V
	DPDT	3DC	64.3	46.7	2	0.5	SL Type SMD Mount Non-Latching	255-2271-5-ND	3.43	3.15	2.80	2.38	TQ2SL-3V
	DPDT	3DC	64.3	46.7	2	0.5		255-2271-2-ND†	1050.00/500				TQ2SL-3V-Z
	DPDT	5DC	178	28.1	2	0.5		255-2272-5-ND	3.43	3.15	2.80	2.38	TQ2SL-5V
	DPDT	12DC	1,028	11.7	2	0.5		255-2853-ND ***NEW!***	3.43	3.15	2.80	2.38	TQ2SL-12V
	DPDT	12DC	1,028	11.7	2	0.5		255-2269-2-ND†	1050.00/500				TQ2SL-12V-Z
	DPDT	24DC	2,880	8.3	2	0.5		255-2270-5-ND	4.09	3.76	3.34	2.84	TQ2SL-24V
	DPDT	1.5DC	16	93.8	2	0.5	SS Type SMD Mount Non-Latching	255-2280-5-ND	3.43	3.15	2.80	2.38	TQ2SS-1.5V
	DPDT	4.5DC	145	31	2	0.5		255-2282-5-ND	3.43	3.15	2.80	2.38	TQ2SS-4.5V
	DPDT	5DC	178	28.1	2	0.5		255-2283-5-ND	3.43	3.15	2.80	2.38	TQ2SS-5V
	DPDT	12DC	1,028	11.7	2	0.5		255-2279-5-ND	3.43	3.15	2.80	2.38	TQ2SS-12V
	DPDT	24DC	2,880	8.3	2	0.5		255-2281-5-ND	4.09	3.76	3.34	2.84	TQ2SS-24V
15B	DPDT	4.5DC	289.3	15.6	2	0.5	SA Type SMD Mount 1 Coil Latching	255-2266-5-ND	4.09	3.76	3.34	2.84	TQ2SA-L-4.5V
	DPDT	5DC	357	14	2	0.5		255-1776-5-ND	4.09	3.76	3.34	2.84	TQ2SA-L-5V
	DPDT	5DC	357	14	2	0.5		255-1776-2-ND†	1252.50/500				TQ2SA-L-5V-X
	DPDT	12DC	2,057	5.8	2	0.5		255-1770-5-ND	4.09	3.76	3.34	2.84	TQ2SA-L-12V
	DPDT	24DC	5,760	4.2	2	0.5		255-1774-5-ND	4.63	4.26	3.78	3.22	TQ2SA-L-24V
	DPDT	24DC	5,760	4.2	2	0.5	SL Type SMD Mount 1 Coil Latching	255-2273-5-ND	4.53	4.17	3.70	3.15	TQ2SL-L-24V
	DPDT	5DC	357	14	2	0.5	SS Type SMD Mount 1 Coil Latching	255-2284-5-ND	4.09	3.76	3.34	2.84	TQ2SS-L-5V
	DPDT	5DC	357	14	2	0.5		255-2284-2-ND†	1252.50/500				TQ2SS-L-5V-Z
15C	DPDT	3DC	64.3	46.7	2	0.5	SA Type SMD Mount 2 Coil Latching	255-2267-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L2-3V
	DPDT	4.5DC	145	31	2	0.5		255-1773-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L2-4.5V
	DPDT	5DC	178	28.1	2	0.5		255-1775-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L2-5V
	DPDT	5DC	178	28.1	2	0.5		255-1775-2-ND†	1312.50/500				TQ2SA-L2-5V-Z
	DPDT	9DC	579	15.5	2	0.5		255-2268-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L2-9V
	DPDT	12DC	1,028	11.7	2	0.5		255-1771-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L2-12V
	DPDT	12DC	1,028	11.7	2	0.5		255-1771-2-ND†	1312.50/500				TQ2SA-L2-12V-Z
	DPDT	24DC	2,880	8.3	2	0.5		255-1772-5-ND	4.78	4.39	3.90	3.32	TQ2SA-L2-24V
	DPDT	1.5DC	16	93.8	2	0.5	SL Type SMD Mount 2 Coil Latching	255-2275-5-ND	4.29	3.94	3.50	2.98	TQ2SL-L2-1.5V
	DPDT	4.5DC	145	31	2	0.5		255-2277-5-ND	4.29	3.94	3.50	2.98	TQ2SL-L2-4.5V
	DPDT	5DC	178	28.1	2	0.5		255-2278-5-ND	4.29	3.94	3.50	2.98	TQ2SL-L2-5V
	DPDT	12DC	1,028	11.7	2	0.5		255-2274-5-ND	4.29	3.94	3.50	2.98	TQ2SL-L2-12V
	DPDT	24DC	2,880	8.3	2	0.5		255-2276-5-ND	4.78	4.39	3.90	3.32	TQ2SL-L2-24V
	DPDT	1.5DC	16	93.8	2	0.5	SS Type SMD Mount 2 Coil Latching	255-2286-5-ND	4.29	3.94	3.50	2.98	TQ2SS-L2-1.5V
	DPDT	3DC	64.3	46.7	2	0.5		255-2288-5-ND	4.29	3.94	3.50	2.98	TQ2SS-L2-3V
	DPDT	5DC	178	28.1	2	0.5		255-2289-5-ND	4.29	3.94	3.50	2.98	TQ2SS-L2-5V
	DPDT	5DC	178	28.1	2	0.5		255-2289-2-ND†	1312.50/500				TQ2SS-L2-5V-X
	DPDT	12DC	1,028	11.7	2	0.5		255-2285-5-ND	4.29	3.94	3.50	2.98	TQ2SS-L2-12V
	DPDT	24DC	2,880	8.3	2	0.5		255-2287-5-ND	4.78	4.39	3.90	3.32	TQ2SS-L2-24V
TX Series Low Signal Relays													
16A	DPDT	3DC	64.3	46.7	2	0.5	PC Mount Self Clinch Term.	255-2294-5-ND	3.33	3.06	2.72	2.32	TX2-H-3V
	DPDT	4.5DC	145	31	2	0.5		255-1894-ND	3.33	3.06	2.72	2.32	TX2-H-4.5V
	DPDT	5DC	178	28.1	2	0.5		255-2295-5-ND	3.33	3.06	2.72	2.32	TX2-H-5V
	DPDT	12DC	1,028	11.7	2	0.5		255-2292-5-ND	3.33	3.06	2.72	2.32	TX2-H-12V
	DPDT	24DC	4,114	5.8	2	0.5		255-2293-5-ND	3.94	3.63	3.22	2.74	TX2-H-24V
	DPDT	3DC	64.3	46.7	2	0.5	PC Mount Non-Latching	255-1893-ND	3.33	3.06	2.72	2.32	TX2-3V
	DPDT	4.5DC	145	31	2	0.5		255-1781-5-ND	3.33	3.06	2.72	2.32	TX2-4.5V
	DPDT	5DC	178	28.1	2	0.5		255-1031-5-ND	3.33	3.06	2.72	2.32	TX2-5V
	DPDT	9DC	579	15.5	2	0.5		255-2291-5-ND	3.33	3.06	2.72	2.32	TX2-9V
	DPDT	12DC	1,028	11.7	2	0.5		255-1032-5-ND	3.33	3.06	2.72	2.32	TX2-12V
	DPDT	24DC	4,114	5.8	2	0.5		255-1033-5-ND	3.94	3.63	3.22	2.74	TX2-24V
	DPDT	48DC	8,533	5.6	2	0.5		255-1494-5-ND	5.15	4.73	4.20	3.57	TX2-48V
16B	DPDT	3DC	90	33.3	2	0.5	PC Mount 1 Coil Latching	255-2297-5-ND	3.94	3.63	3.22	2.74	TX2-L-3V
	DPDT	5DC	250	20	2	0.5		255-2298-5-ND	3.94	3.63	3.22	2.74	TX2-L-5V
	DPDT	9DC	810	11.1	2	0.5		255-2299-5-ND	3.94	3.63	3.22	2.74	TX2-L-9V
	DPDT	24DC	5,760	4.2	2	0.5		255-2296-5-ND	4.53	4.17	3.70	3.15	TX2-L-24V-1

† Tape and Reel

(Continued)

Fig. 14 — *TQ Series – PCB*

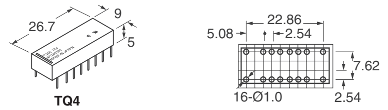

TQ4

A

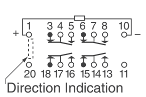

Non-Latching

B

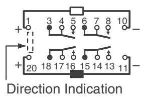

2 Coil Latching

Fig. 15 — *TQ Series – SMD*

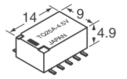

SA Type A

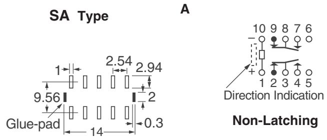

Non-Latching

B

SL Type

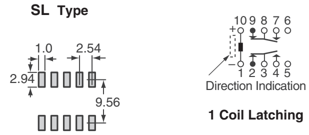

1 Coil Latching

C

SS Type

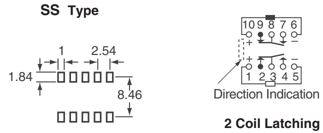

2 Coil Latching

Fig. 16 — *TX and TXS Series – PCB*

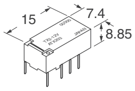

A

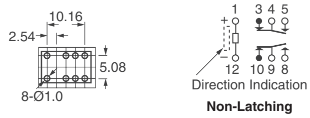

Non-Latching

B

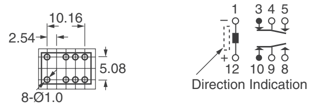

1 Coil Latching

C

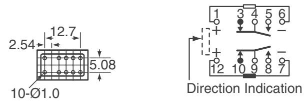

2 Coil Latching (L2)

D *NEW!*

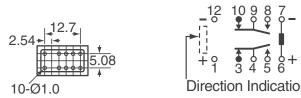

2 Coil Latching (LT)

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
16C	DPDT	4.5DC	101.2	44.5	2	—	PC Mount 2 Coil Latching	255-1784-5-ND	4.19	3.85	3.42	2.91	TX2-L2-4.5V
	DPDT	5DC	125	40	2	—		255-1785-5-ND	4.19	3.85	3.42	2.91	TX2-L2-5V
	DPDT	9DC	405	22.2	2	—		255-1786-5-ND	4.19	3.85	3.42	2.91	TX2-L2-9V
	DPDT	12DC	720	16.7	2	—		255-1782-5-ND	4.19	3.85	3.42	2.91	TX2-L2-12V
	DPDT	24DC	2,880	8.3	2	—		255-1783-5-ND	4.68	4.30	3.82	3.25	TX2-L2-24V
	DPDT	5DC	125	40	2	—	PC Mount AgPd 2 Coil Latching	255-2300-5-ND	4.19	3.85	3.42	2.91	TX2-L2-5V-1
16D	DPDT	3DV	64.3	46.7	2	0.5	PC Mount Power Type 2 Coil Latching	255-2856-ND ***NEW!***	5.29	4.86	4.32	3.68	TX2-LT-3V-TH
	DPDT	4.5DC	145	31	2	0.5		255-2857-ND ***NEW!***	5.29	4.86	4.32	3.68	TX2-LT-4.5V-TH
	DPDT	12DC	1,028	11.7	2	0.5		255-2854-ND ***NEW!***	5.29	4.86	4.32	3.68	TX2-LT-12V-TH
	DPDT	24DC	4,114	5.8	2	0.5		255-2855-ND ***NEW!***	6.20	5.70	5.06	4.31	TX2-LT-24V-TH
17A	DPDT	3DC	64.3	46.7	2	0.5	SA Type SMD Mount Non-Latching	255-1787-5-ND	3.43	3.15	2.80	2.38	TX2SA-3V
	DPDT	3DC	64.3	46.7	2	0.5		255-1787-2-ND†	1050.00/500				TX2SA-3V-Z
	DPDT	4.5DC	145	31	2	0.5		255-1788-5-ND	3.43	3.15	2.80	2.38	TX2SA-4.5V
	DPDT	4.5DC	145	31	2	0.5		255-1788-2-ND†	1050.00/500				TX2SA-4.5V-Z
	DPDT	5DC	178	28.1	2	0.5		255-1034-5-ND	3.43	3.15	2.80	2.38	TX2SA-5V
	DPDT	5DC	178	28.1	2	0.5		255-2302-2-ND†	1050.00/500				TX2SA-5V-Z
	DPDT	12DC	1,028	11.7	2	0.5		255-1035-5-ND	3.43	3.15	2.80	2.38	TX2SA-12V
	DPDT	12DC	1,028	11.7	2	0.5		255-1035-2-ND†	1050.00/500				TX2SA-12V-Z
	DPDT	24DC	4,114	5.8	2	0.5		255-1036-5-ND	4.07	3.74	3.32	2.83	TX2SA-24V
	DPDT	24DC	4,114	5.8	2	0.5		255-1036-2-ND†	1245.00/500				TX2SA-24V-Z
	DPDT	1.5DC	16	93.8	2	0.5	SA Type Power Type 2 Coil Latching	255-2858-ND ***NEW!***	5.05	4.64	4.12	3.51	TX2SA-LT-1.5V-TH
	DPDT	4.5DC	145	31	2	0.5		255-2859-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SA-LT-4.5V-TH
	DPDT	3DC	64.3	46.7	2	—	SL Type SMD Mount Non-Latching	255-2311-5-ND	3.43	3.15	2.80	2.38	TX2SL-3V
	DPDT	3DC	64.3	46.7	2	—		255-2311-2-ND†	1050.00/500				TX2SL-3V-Z
	DPDT	4.5DC	145	31	2	—		255-2312-5-ND	3.43	3.15	2.80	2.38	TX2SL-4.5V
	DPDT	4.5DC	145	31	2	—		255-2312-2-ND†	1050.00/500				TX2SL-4.5V-Z
	DPDT	5DC	178	28.1	2	—		255-2313-5-ND	3.43	3.15	2.80	2.38	TX2SL-5V
	DPDT	5DC	178	28.1	2	—		255-2313-2-ND†	1050.00/500				TX2SL-5V-Z
	DPDT	12DC	1,028	11.7	2	—		255-2309-5-ND	3.43	3.15	2.80	2.38	TX2SL-12V
	DPDT	24DC	4,114	5.8	2	—		255-2310-5-ND	4.07	3.74	3.32	2.83	TX2SL-24V
	DPDT	24DC	4,114	5.8	2	—		255-2310-2-ND†	1245.00/500				TX2SL-24V-Z
	DPDT	3DC	64.3	46.7	2	—	SS Type SMD Mount Non-Latching	255-2316-5-ND	3.43	3.15	2.80	2.38	TX2SS-3V
	DPDT	4.5DC	145	31	2	—		255-2318-5-ND	3.43	3.15	2.80	2.38	TX2SS-4.5V
	DPDT	4.5DC	145	31	2	—		255-2318-2-ND†	1050.00/500				TX2SS-4.5V-Z
	DPDT	5DC	178	28.1	2	—		255-2319-5-ND	3.43	3.15	2.80	2.38	TX2SS-5V
	DPDT	12DC	1,028	11.7	2	—		255-2314-5-ND	3.43	3.15	2.80	2.38	TX2SS-12V
	DPDT	24DC	4,114	5.8	2	—		255-2315-5-ND	4.07	3.74	3.32	2.83	TX2SS-24V
	DPDT	48DC	8,533	5.6	2	—		255-2317-5-ND	5.29	4.86	4.32	3.68	TX2SS-48V
17B	DPDT	24DC	5,760	4.2	2	0.5	SA Type SMD Mount 1 Coil Latching	255-2303-5-ND	4.63	4.26	3.78	3.22	TX2SA-L-24V
	DPDT	3DC	64.3	46.7	2	0.5	SL Type Power Type 2 Coil Latching	255-2862-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SL-LT-3V-TH
	DPDT	4.5DC	145	31	2	0.5		255-2863-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SL-LT-4.5V-TH
	DPDT	12DC	1,028	11.7	2	0.5		255-2860-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SL-LT-12V-TH
	DPDT	24DC	4,114	5.8	2	0.5		255-2861-ND ***NEW!***	6.27	5.76	5.12	4.36	TX2SL-LT-24V-TH
17C	DPDT	1.5DC	11.2	133.9	2	—	SA Type SMD Mount 2 Coil Latching	255-2305-5-ND	4.29	3.94	3.50	2.98	TX2SA-L2-1.5V
	DPDT	3DC	45	66.7	2	—		255-2306-5-ND	4.29	3.94	3.50	2.98	TX2SA-L2-3V
	DPDT	4.5DC	101.2	44.5	2	—		255-2307-5-ND	5.05	4.64	4.12	3.51	TX2SA-L2-4.5V
	DPDT	5DC	125	40	2	—		255-1790-5-ND	4.29	3.94	3.50	2.98	TX2SA-L2-5V
	DPDT	5DC	125	40	2	—		255-1790-2-ND†	1312.50/500				TX2SA-L2-5V-Z
	DPDT	6DC	180	33.3	2	—		255-2308-5-ND	4.29	3.94	3.50	2.98	TX2SA-L2-6V
	DPDT	6DC	180	33.3	2	—		255-2308-2-ND†	1312.50/500				TX2SA-L2-6V-X
	DPDT	12DC	720	16.7	2	—		255-1495-5-ND	4.29	3.94	3.50	2.98	TX2SA-L2-12V
	DPDT	24DC	2,880	8.3	2	—		255-1789-5-ND	4.78	4.39	3.90	3.32	TX2SA-L2-24V
17D	DPDT	3DC	45	66.7	1	7.5	SA Type SMD Mount 2 Coil Latching	255-2586-ND	5.34	4.91	4.36	3.71	TX2SA-LT-3V-TH
	DPDT	12DC	720	16.7	1	7.5		255-2587-ND	5.34	4.91	4.36	3.71	TX2SA-LT-12V-TH
	DPDT	24DC	2,880	8.3	1	7.5		255-2588-ND	6.27	5.76	5.12	4.36	TX2SA-LT-24V-TH
	DPDT	3DC	64.3	46.7	2	0.5	SS Type Power Type 2 Coil Latching	255-2866-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SS-LT-3V-TH
	DPDT	4.5DC	145	31	2	0.5		255-2867-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SS-LT-4.5V-TH
	DPDT	12DC	1,028	11.7	2	0.5		255-2864-ND ***NEW!***	5.34	4.91	4.36	3.71	TX2SS-LT-12V-TH
	DPDT	24DC	4,114	5.8	2	0.5		255-2865-ND ***NEW!***	6.27	5.76	5.12	4.36	TX2SS-LT-24V-TH
TXS Series High Sensitivity Relays													
16A	DPDT	4.5DC	405	11.1	1	—	PC Mount Self Clinch Term.	255-1897-ND	4.19	3.85	3.42	2.91	TXS2-H-4.5V
	DPDT	3DC	180	16.7	1	—	PC Mount Non-Latching	255-1988-ND	4.19	3.85	3.42	2.91	TXS2-3VS
	DPDT	4.5DC	405	11.1	1	—		255-1896-ND	4.19	3.85	3.42	2.91	TXS2-4.5V
	DPDT	6DC	720	8.3	1	—		255-2335-5-ND	4.19	3.85	3.42	2.91	TXS2-6V
	DPDT	9DC	1,620	5.6	1	—		255-2336-5-ND	4.19	3.85	3.42	2.91	TXS2-9V
	DPDT	12DC	2,880	4.2	1	—		255-1895-ND	4.19	3.85	3.42	2.91	TXS2-12V
	DPDT	24DC	8,229	2.9	1	—		255-2334-5-ND	4.92	4.53	4.02	3.42	TXS2-24V
16B	DPDT	3DC	257	11.7	1	—	PC Mount 1 Coil Latching	255-1899-ND	4.75	4.37	3.88	3.30	TXS2-L-3V
	DPDT	4.5DC	579	7.8	1	—		255-1900-ND	4.75	4.37	3.88	3.30	TXS2-L-4.5V
	DPDT	12DC	4,114	2.9	1	—		255-1898-ND	4.75	4.37	3.88	3.30	TXS2-L-12V
16C	DPDT	3DC	129	23.3	1	—	PC Mount 2 Coil Latching	255-2339-5-ND	4.92	4.53	4.02	3.42	TXS2-L2-3V
	DPDT	4.5DC	289	15.6	1	—		255-2340-5-ND	4.92	4.53	4.02	3.42	TXS2-L2-4.5V
	DPDT	12DC	2,057	5.8	1	—		255-2337-5-ND	4.92	4.53	4.02	3.42	TXS2-L2-12V
	DPDT	24DC	3,840	6.3	1	—		255-2338-5-ND	4.92	4.53	4.02	3.42	TXS2-L2-24V

† Tape and Reel

(Continued)

Fig. 17 — ***TX and TXS Series – SMD***

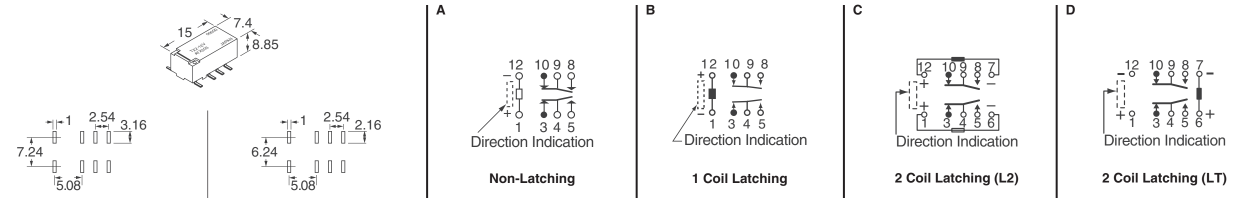

Long SMD (SA and SL Type)

Short SMD (SS Type)

A Non-Latching

B 1 Coil Latching

C 2 Coil Latching (L2)

D 2 Coil Latching (LT)

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
17A	DPDT	3DC	180	16.7	1	—	SA Type SMD Mount Non-Latching	255-2341-5-ND	4.29	3.94	3.50	2.98	TXS2SA-3V
	DPDT	3DC	180	16.7	1	—		255-2341-2-ND†		1312.50/500			TXS2SA-3V-Z
	DPDT	4.5DC	405	11.1	1	—		255-1393-5-ND	4.29	3.94	3.50	2.98	TXS2SA-4.5V
	DPDT	4.5DC	405	11.1	1	—		255-1393-2-ND†		1312.50/500			TXS2SA-4.5V-Z
	DPDT	6DC	720	8.3	1	—		255-1901-ND	4.29	3.94	3.50	2.98	TXS2SA-6V
	DPDT	9DC	1,620	5.6	1	—	SA Type Long SMD Non-Latching	255-1902-ND	4.29	3.94	3.50	2.98	TXS2SA-9V
	DPDT	12DC	2,880	4.2	1	—		255-1394-5-ND	4.29	3.94	3.50	2.98	TXS2SA-12V
	DPDT	12DC	2,880	4.2	1	—		255-1394-2-ND†		1312.50/500			TXS2SA-12V-Z
	DPDT	24DC	8,229	2.9	1	—		255-1395-5-ND	5.07	4.66	4.14	3.52	TXS2SA-24V
	DPDT	24DC	8,229	2.9	1	—		255-1395-2-ND†		1552.50/500			TXS2SA-24V-Z
	DPDT	3DC	180	16.7	1	—	SL Type Long SMD Non-Latching	255-2351-5-ND	4.29	3.94	3.50	2.98	TXS2SL-3V
	DPDT	3DC	180	16.7	1	—		255-2351-2-ND†		1312.50/500			TXS2SL-3V-Z
	DPDT	4.5DC	405	11.1	1	—		255-2352-5-ND	4.29	3.94	3.50	2.98	TXS2SL-4.5V
	DPDT	4.5DC	405	11.1	1	—		255-2352-2-ND†		1312.50/500			TXS2SL-4.5V-Z
	DPDT	12DC	2,880	4.2	1	—		255-2349-5-ND	4.29	3.94	3.50	2.98	TXS2SL-12V
	DPDT	12DC	2,880	4.2	1	—		255-2349-2-ND†		1312.50/500			TXS2SL-12V-Z
	DPDT	24DC	8,229	2.9	1	—		255-2350-5-ND	5.05	4.64	4.12	3.51	TXS2SL-24V
	DPDT	1.5DC	45	33.3	1	—	SS Type Short SMD Non-Latching	255-2354-5-ND	4.29	3.94	3.50	2.98	TXS2SS-1.5V
	DPDT	1.5DC	45	33.3	1	—		255-2355-2-ND†		1312.50/500			TXS2SS-1.5V-X
	DPDT	1.5DC	45	33.3	1	—		255-2356-2-ND†		1312.50/500			TXS2SS-1.5V-Z
	DPDT	3DC	180	16.7	1	—		255-2358-5-ND	4.29	3.94	3.50	2.98	TXS2SS-3V
	DPDT	3DC	180	16.7	1	—		255-2358-2-ND†		1312.50/500			TXS2SS-3V-Z
	DPDT	4.5DC	405	11.1	1	—		255-2359-5-ND	4.29	3.94	3.50	2.98	TXS2SS-4.5V
	DPDT	4.5DC	405	11.1	1	—		255-2359-2-ND†		1312.50/500			TXS2SS-4.5V-Z
	DPDT	12DC	2,880	4.2	1	—		255-2353-5-ND	4.29	3.94	3.50	2.98	TXS2SS-12V
	DPDT	12DC	2,880	4.2	1	—		255-2353-2-ND†		1312.50/500			TXS2SS-12V-Z
	DPDT	24DC	8,229	2.9	1	—		255-2357-5-ND	5.07	4.66	4.14	3.52	TXS2SS-24V
	DPDT	24DC	8,229	2.9	1	—		255-2357-2-ND†		1545.00/500			TXS2SS-24V-Z
17B	DPDT	4.5DC	579	7.8	1	—	SA Type Long SMD 1 Coil Latching	255-2343-5-ND	4.88	4.48	3.98	3.39	TXS2SA-L-4.5V
	DPDT	4.5DC	579	7.8	1	—		255-2343-2-ND†		1312.50/500			TXS2SA-L-4.5V-Z
	DPDT	24DC	11,520	2.1	1	—		255-2342-5-ND	5.44	5.00	4.44	3.78	TXS2SA-L-24V
	DPDT	24DC	11,520	2.1	1	—		255-2342-2-ND†		1665.00/500			TXS2SA-L-24V-Z
17C	DPDT	3DC	129	23.3	1	—	SA Type Long SMD 2 Coil Latching	255-2347-5-ND	5.07	4.66	4.14	3.52	TXS2SA-L2-3V
	DPDT	3DC	129	23.3	1	—		255-2347-2-ND†		1552.50/500			TXS2SA-L2-3V-Z
	DPDT	4.5DC	289	15.6	1	—		255-2348-5-ND	5.07	4.66	4.14	3.52	TXS2SA-L2-4.5V
	DPDT	4.5DC	289	15.6	1	—		255-2348-2-ND†		1552.50/500			TXS2SA-L2-4.5V-Z
	DPDT	12DC	2,057	5.8	1	—		255-2345-5-ND	5.07	4.66	4.14	3.52	TXS2SA-L2-12V
	DPDT	12DC	2,057	5.8	1	—		255-2345-2-ND†		1552.50/500			TXS2SA-L2-12V-Z
	DPDT	24DC	3,840	6.3	1	—		255-2346-5-ND	5.73	5.27	4.68	3.98	TXS2SA-L2-24V
	DPDT	24DC	3,840	6.3	1	—		255-2346-2-ND†		1755.00/500			TXS2SA-L2-24V-Z
TXD Series Telecom Relays													
18A	DPDT	3DC	45	66.7	2	—	PC Mount Non-Latching	255-2322-5-ND	4.29	3.94	3.50	2.98	TXD2-3V
	DPDT	4.5DC	101	44.4	2	—		255-2323-5-ND	4.29	3.94	3.50	2.98	TXD2-4.5V
	DPDT	5DC	125	40.0	2	—		255-2324-5-ND	4.29	3.94	3.50	2.98	TXD2-5V
	DPDT	12DC	720	16.7	2	—		255-2320-5-ND	4.29	3.94	3.50	2.98	TXD2-12V
	DPDT	24DC	2,504	9.6	2	—		255-2321-5-ND	4.88	4.48	3.98	3.39	TXD2-24V
	DPDT	3DC	45	66.7	2	—	PC Mount Non-Latching	255-2870-ND ***NEW!***	5.34	4.91	4.36	3.71	TXD2-3V-6
	DPDT	4.5DC	101	44.4	2	—		255-2871-ND ***NEW!***	5.86	5.38	4.78	4.07	TXD2-4.5V-6
	DPDT	12DC	720	16.7	2	—		255-2868-ND ***NEW!***	5.86	5.38	4.78	4.07	TXD2-12V-6
	DPDT	24DC	2,504	9.6	2	—		255-2869-ND ***NEW!***	6.57	6.03	5.36	4.56	TXD2-24V-6
	DPDT	3DC	60	50	2	—	SMD Mount 1 Coil Latching	255-2874-ND ***NEW!***	5.86	5.38	4.78	4.07	TXD2-L-3V-6
	DPDT	4.5DC	135	33.3	2	—		255-2875-ND ***NEW!***	5.86	5.38	4.78	4.07	TXD2-L-4.5V-6
	DPDT	12DC	960	12.5	2	—		255-2872-ND ***NEW!***	5.86	5.38	4.78	4.07	TXD2-L-12V-6
	DPDT	24DC	3,388	7.1	2	—		255-2873-ND ***NEW!***	6.57	6.03	5.36	4.56	TXD2-L-24V-6
18B	DPDT	5DC	125	40.0	2	—	SA Type Long SMD Non-Latching	255-2327-5-ND	4.41	4.05	3.60	3.06	TXD2SA-5V
	DPDT	5DC	125	40.0	2	—		255-2327-2-ND†		1350.00/500			TXD2SA-5V-Z
	DPDT	12DC	720	16.7	2	—		255-2325-5-ND	4.41	4.05	3.60	3.06	TXD2SA-12V
	DPDT	12DC	720	16.7	2	—		255-2325-2-ND†		1350.00/500			TXD2SA-12V-Z
	DPDT	24DC	2,504	9.6	2	—		255-2326-5-ND	5.05	4.64	4.12	3.51	TXD2SA-24V
	DPDT	3DC	45	66.7	2	—	SA Type SMD Mount Non-Latching	255-2878-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-3V-6
	DPDT	4.5DC	101	44.4	2	—		255-2879-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-4.5V-6
	DPDT	12DC	720	16.7	2	—		255-2876-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-12V-6
	DPDT	24DC	2,504	9.6	2	—		255-2877-ND ***NEW!***	8.06	7.41	6.58	5.60	TXD2SA-24V-6
	DPDT	3DC	60	50	2	—	SA Type SMD Mount 1 Coil Latching	255-2882-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-L-3V-6
	DPDT	4.5DC	135	33.3	2	—		255-2883-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-L-4.5V-6
	DPDT	12DC	960	12.5	2	—		255-2880-ND ***NEW!***	7.64	7.02	6.24	5.31	TXD2SA-L-12V-6
	DPDT	24DC	3,388	7.1	2	—		255-2881-ND ***NEW!***	8.06	7.41	6.58	5.60	TXD2SA-L-24V-6
	DPDT	5DC	125	40.0	2	—	SS Type Short SMD Non-Latching	255-2333-5-ND	4.41	4.05	3.60	3.06	TXD2SS-5V
	DPDT	5DC	125	40.0	2	—		255-2333-2-ND†		1350.00/500			TXD2SS-5V-Z
	DPDT	12DC	720	16.7	2	—		255-2331-5-ND	4.41	4.05	3.60	3.06	TXD2SS-12V
	DPDT	12DC	720	16.7	2	—		255-2331-2-ND†		1350.00/500			TXD2SS-12V-Z
	DPDT	24DC	2,504	9.6	2	—		255-2332-5-ND	5.05	4.64	4.12	3.51	TXD2SS-24V
	DPDT	24DC	2,504	9.6	2	—		255-2332-2-ND†		1545.00/500			TXD2SS-24V-Z
	DPDT	5DC	166	30.0	2	—	SL Type Long SMD 1 Coil Latching	255-2330-5-ND	4.97	4.57	4.06	3.46	TXD2SL-L-5V
	DPDT	5DC	166	30.0	2	—		255-2330-2-ND†		1522.50/500			TXD2SL-L-5V-Z
	DPDT	12DC	960	12.5	2	—		255-2328-5-ND	4.97	4.57	4.06	3.46	TXD2SL-L-12V
	DPDT	12DC	960	12.5	2	—		255-2328-2-ND†		1522.50/500			TXD2SL-L-12V-Z
	DPDT	24DC	3,388	7.1	2	—		255-2329-5-ND	5.44	5.00	4.44	3.78	TXD2SL-L-24V
	DPDT	24DC	3,388	7.1	2	—		255-2329-2-ND†		1665.00/500			TXD2SL-L-24V-Z

† Tape and Reel

Fig. 18 — ***TXD Series***

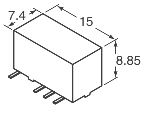

SMD Mount

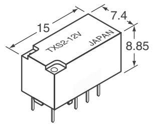

PC Mount

A

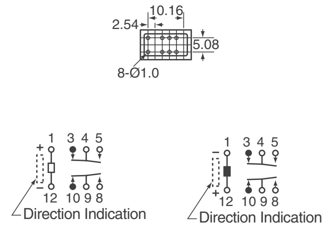

Non-Latching

1 Coil Latching

B

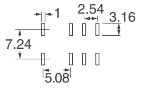

Long SMD (SA Type)

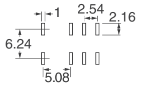

Short SMD (SS Type)

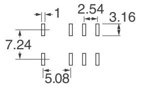

Long SMD (SL Type)

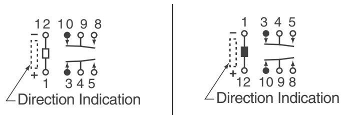

Non-Latching

1 Coil Latching

Power Relays

Dim. in mm

Fig. 1 ***DK Series – PCB***

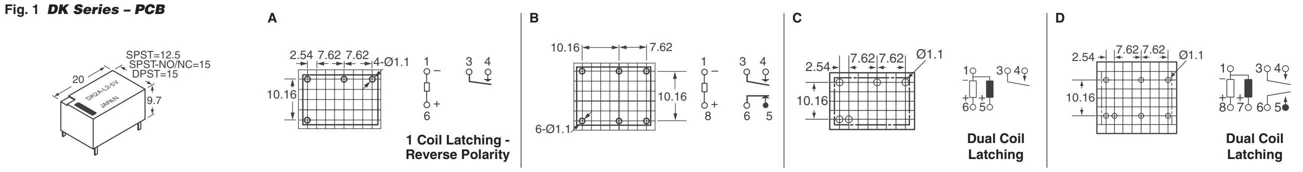

1 Coil Latching - Reverse Polarity

Dual Coil Latching

Dual Coil Latching

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resis-tance (Ω)	Coil Cur-rent (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
DK Series General Purpose Relays													
1A	SPST-NO	3DC	45	66.6	10	10	$AgSnO_2$, Sealed	255-2057-ND	8.67	7.97	7.08	6.02	DK1A-3V-F
	SPST-NO	5DC	125	40	10	10	$AgSnO_2$, Sealed	255-2058-ND	8.67	7.97	7.08	6.02	DK1A-5V-F
	SPST-NO	12DC	720	16.6	10	10	$AgSnO_2$, Sealed	255-2059-ND	8.67	7.97	7.08	6.02	DK1A-12V-F
	SPST-NO	24DC	2,880	8.3	10	10	$AgSnO_2$, Sealed	255-2060-ND	8.67	7.97	7.08	6.02	DK1A-24V-F
1B	2x SPST	5DC	125	40	8	8	AgCd	255-1098-ND	12.76	11.73	10.42	8.86	DK1A1B-5V
	2x SPST	6DC	180	33.3	8	8	AgCd	255-2188-ND	12.76	11.73	10.42	8.86	DK1A1B-6V
	2x SPST	12DC	720	16.6	8	8	AgCd	255-1099-ND	12.76	11.73	10.42	8.86	DK1A1B-12V
	2x SPST	24DC	2,880	8.3	8	8	AgCd	255-1100-ND	12.76	11.73	10.42	8.86	DK1A1B-24V
	DPST	5DC	125	40	8	8	AgCd	255-1601-ND	12.69	11.66	10.36	8.81	DK2A-5V
	DPST	6DC	180	33.3	8	8	AgCd	255-2379-ND	12.76	11.73	10.42	8.86	DK2A-6V
	DPST	12DC	720	16.6	8	8	AgCd	255-1599-ND	12.76	11.73	10.42	8.86	DK2A-12V
	DPST	24DC	2,880	8.3	8	8	AgCd	255-1600-ND	12.76	11.73	10.42	8.86	DK2A-24V
DK Series Latching General Purpose Relays													
1C	SPST-NO	3DC	45	66.6	10	10	$AgSnO_2$, Sealed	255-2374-ND	8.67	7.97	7.08	6.02	DK1A-L-3V-F
	SPST-NO	5DC	125	40	10	10	$AgSnO_2$, Sealed	255-2375-ND	8.67	7.97	7.08	6.02	DK1A-L-5V-F
	SPST-NO	12DC	720	16.6	10	10	$AgSnO_2$, Sealed	255-2376-ND	8.67	7.97	7.08	6.02	DK1A-L-12V-F
	SPST-NO	3DC	45	66.6	10	10	$AgSnO_2$, Sealed	255-2053-ND	11.12	10.22	9.08	7.72	DK1A-L2-3V-F
	SPST-NO	5DC	125	40	10	10	$AgSnO_2$, Sealed	255-2054-ND	11.12	10.22	9.08	7.72	DK1A-L2-5V-F
	SPST-NO	6DC	180	33.3	10	10	$AgSnO_2$, Sealed	255-2377-ND	10.29	9.45	8.40	7.14	DK1A-L2-6V-F
	SPST-NO	9DC	405	22.2	10	10	$AgSnO_2$, Sealed	255-2378-ND	11.12	10.22	9.08	7.72	DK1A-L2-9V-F
	SPST-NO	12DC	720	16.6	10	10	$AgSnO_2$, Sealed	255-2055-ND	11.12	10.22	9.08	7.72	DK1A-L2-12V-F
	SPST-NO	24DC	2,880	8.3	10	10	$AgSnO_2$, Sealed	255-2056-ND	11.12	10.22	9.08	7.72	DK1A-L2-24V-F
1D	2x SPST	5DC	125	40	8	8	Dual Coil Latching	255-2191-ND	15.26	14.02	12.46	10.60	DK1A1B-L2-5V
	2x SPST	12DC	720	16.6	8	8	Dual Coil Latching	255-2189-ND	15.26	14.02	12.46	10.60	DK1A1B-L2-12V
	2x SPST	24DC	2,880	8.3	8	8	Dual Coil Latching	255-2190-ND	17.35	15.93	14.16	12.04	DK1A1B-L2-24V
PCB Mount Relay Socket for DK1A Relays								255-1101-ND	4.73	4.35	3.86	3.29	DK1A-PS
PCB Mount Relay Socket for DK1A1B and DK2A Relays								255-1102-ND	4.70	4.32	3.84	3.27	DK2A-PS
DSP Series General Purpose Relays													
2A	2x SPST	5DC	83	60	5	—	$AgSnO_2$, Sealed	255-2931-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1-DC5V-F
	2x SPST	6DC	120	50	5	—	$AgSnO_2$, Sealed	255-2932-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1-DC6V-F
	2x SPST	9DC	270	33.3	5	—	$AgSnO_2$, Sealed	255-2966-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1-DC9V-F
	2x SPST	12DC	480	25	5	—	$AgSnO_2$, Sealed	255-2902-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1-DC12V-F
	2x SPST	24DC	1,920	12.5	5	—	$AgSnO_2$, Sealed	255-2743-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1-DC24V-F
2B	SPST-NO	5DC	83	60	8	8	Sealed	255-1049-ND	7.30	6.71	5.96	5.07	DSP1A-DC5V
	SPST-NO	9DC	270	33.3	5	—	Sealed	255-2746-ND ***NEW!***	7.30	6.71	5.96	5.07	DSP1A-DC9V
	SPST-NO	12DC	480	25	8	8	Sealed	255-1050-ND	7.30	6.71	5.96	5.07	DSP1A-DC12V
	SPST-NO	24DC	1,920	12.5	8	8	Sealed	255-1051-ND	7.30	6.71	5.96	5.07	DSP1A-DC24V
2C	DPST-NO	5DC	83	60	5	5	Sealed	255-1052-ND	8.06	7.41	6.58	5.60	DSP2A-DC5V
	DPST-NO	12DC	480	25	5	5	Sealed	255-1053-ND	8.06	7.41	6.58	5.60	DSP2A-DC12V
	DPST-NO	24DC	1,920	12.5	5	5	Sealed	255-1054-ND	8.06	7.41	6.58	5.60	DSP2A-DC24V
DSP Series Dual Coil Latching General Purpose Relays													
2D	DPST	5DC	83	60	5	—	$AgSnO_2$, Sealed	255-2745-ND ***NEW!***	8.67	7.97	7.08	6.02	DSP1-L2-DC5V-F
	DPST	12DC	48	25	5	—	$AgSnO_2$, Sealed	255-2744-ND ***NEW!***	8.67	7.97	7.08	6.02	DSP1-L2-DC12V-F
2E	SPST	5DC	83	60	5	8	Sealed	255-1620-ND	8.23	7.56	6.72	5.72	DSP1A-L2-DC5V
	SPST	6DC	120	50	5	8	Sealed	255-2973-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1A-L2-DC6V
	SPST	9DC	270	33.3	5	8	Sealed	255-2974-ND ***NEW!***	8.23	7.56	6.72	5.72	DSP1A-L2-DC9V
2F	DPST	5DC	83	60	5	5	Sealed	255-1626-ND	9.02	8.28	7.36	6.26	DSP2A-L2-DC5V
	DPST	12DC	480	25.5	5	5	Sealed	255-1624-ND	9.02	8.28	7.36	6.26	DSP2A-L2-DC12V
	DPST	24DC	1,920	12.5	5	5	Sealed	255-1625-ND	9.02	8.28	7.36	6.26	DSP2A-L2-DC24V
PCB Mount Relay Socket for DSP1A Relays								255-1058-ND	3.01	2.77	2.46	2.10	DSP1A-PS
PCB Mount Relay Socket for DSP1A-L2 Relays								255-1059-ND	3.55	3.27	2.90	2.47	DSP1A-PSL2
PCB Mount Relay Socket for DSP2A and DSP1 Relays								255-1060-ND	4.17	3.83	3.40	2.89	DSP2A-PS
PCB Mount Relay Socket for DSP2A-L2 and DSP1-L2 Relays								255-1061-ND	4.43	4.08	3.62	3.08	DSP2A-PSL2
NEW! ADJ Series Compact and High Insulation Power Latching Relays NEW!													
3A	SPST-NO	5DC	100	50	—	16	Flux Resistant	255-2595-ND	15.14	13.91	12.36	10.51	ADJ23005
3B	SPDT	12DC	576	20.8	—	16	Sealed	255-2594-ND	15.14	13.91	12.36	10.51	ADJ14012
NEW! ADY Series 10A Power Relays (for Inductive Loads) NEW!													
4A	SPST-NO	5DC	125	40	10	—	Low Profile, Sealed	255-2885-ND	9.56	8.78	7.80	6.63	ADY10005
	SPST-NO	12DC	720	16.6	10	—	Low Profile, Sealed	255-2886-ND	9.56	8.78	7.80	6.63	ADY10012
	SPST-NO	24DC	2,880	8.3	10	—	Low Profile, Sealed	255-2887-ND	9.56	8.78	7.80	6.63	ADY10024
4B	2x SPST	5DC	125	40	10	—	Low Profile, Sealed	255-2888-ND	10.61	9.75	8.66	7.37	ADY30005
ADQ Series Power Latching Relays													
5B	SPST	4.5DC	12.7	355.6	—	30	Dual Coil Latching	255-1442-ND	22.12	20.32	18.06	15.36	ADQ23Q04H
	SPST	12DC	90	133.3	—	30	Dual Coil Latching	255-1443-ND	22.12	20.32	18.06	15.36	ADQ23Q012
NEW! ADQM Series Power Latching Relays NEW!													
5A	SPST-NO	4.5DC	40.5	111.1	—	60	Single Coil Latching	255-2598-ND	63.85	58.64	52.12	44.31	ADQM1604H
	SPST-NO	12DC	288	41.7	—	60	Single Coil Latching	255-2596-ND	63.85	58.64	52.12	44.31	ADQM16012
	SPST-NO	24DC	1,152	20.8	—	60	Single Coil Latching	255-2597-ND	59.12	54.30	48.26	41.03	ADQM16024
5B	SPST-NO	4.5DC	20.3	221.7	—	60	Dual Coil Latching	255-2601-ND	64.26	59.02	52.46	44.60	ADQM2604H
	SPST-NO	12DC	144	83.3	—	60	Dual Coil Latching	255-2599-ND	64.26	59.02	52.46	44.60	ADQM26012
	SPST-NO	24DC	576	41.7	—	60	Dual Coil Latching	255-2600-ND	64.26	59.02	52.46	44.60	ADQM26024

† Cut Tape ‡ Tape and Reel

Fig. 2 ***DSP Series – PCB***

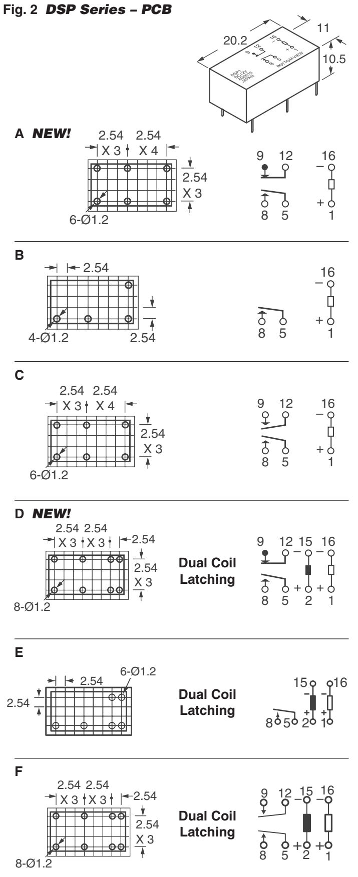

Dual Coil Latching

Dual Coil Latching

Dual Coil Latching

Fig. 3 ***ADJ Series NEW!***

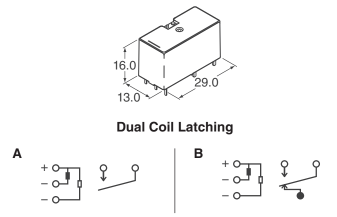

Dual Coil Latching

Fig. 4 ***ADY Series NEW!***

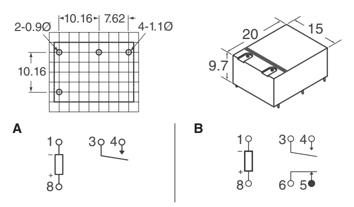

(Continued)

Dim. in mm

Fig. 5 ***ADQ/ADQM Series***

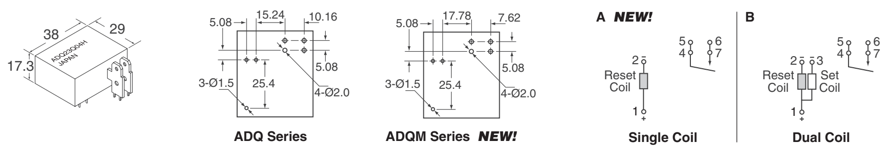

ADQ Series ADQM Series ***NEW!*** Single Coil Dual Coil

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resis-tance (Ω)	Coil Cur-rent (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
HC Series Miniature Power Relays													
6A	SPDT	12DC	160	75	—	10	Plug-In, $AgSnO_2$	255-2748-ND ***NEW!***	7.89	7.25	6.44	5.48	HC1-H-DC12V-F
	SPDT	24DC	650	37	—	10	Plug-In, $AgSnO_2$	255-2749-ND ***NEW!***	7.89	7.25	6.44	5.48	HC1-H-DC24V-F
	SPDT	240AC	—	5	—	10	Plug-In, $AgSnO_2$	255-2747-ND ***NEW!***	11.29	10.38	9.22	7.84	HC1-H-AC240V-F
	SPDT	100AC	—	13.2	—	10	PC Mount, $AgSnO_2$	255-2750-ND ***NEW!***	7.89	7.25	6.44	5.48	HC1-HP-AC100V-F
	SPDT	100AC	—	13.2	—	10	TM Type, $AgSnO_2$	255-2751-ND ***NEW!***	7.89	7.25	6.44	5.48	HC1-HTM-AC100V-F
	SPDT	24DC	650	37	—	10	PC Mount, Amber Sealed, $AgSnO_2$	255-2752-ND ***NEW!***	12.18	11.19	9.94	8.45	HC1E-HP-DC24V-F
6B	DPDT	12DC	160	75	7	7	Plug-In, $AgSnO_2$	255-2757-ND ***NEW!***	9.53	8.76	7.78	6.62	HC2-H-DC12V-F
	DPDT	24DC	650	37	7	7	Plug-In, $AgSnO_2$	255-2758-ND ***NEW!***	9.53	8.76	7.78	6.62	HC2-H-DC24V-F
	DPDT	24AC	—	50	—	7	Plug-In, $AgSnO_2$	255-2756-ND ***NEW!***	9.53	8.76	7.78	6.62	HC2-H-AC24V-F
	DPDT	115AC	—	11.4	—	7	Plug-In, $AgSnO_2$	255-2753-ND ***NEW!***	10.88	9.99	8.88	7.55	HC2-H-AC115V-F
	DPDT	120AC	—	10.9	—	7	Plug-In, $AgSnO_2$	255-2754-ND ***NEW!***	10.93	10.04	8.92	7.59	HC2-H-AC120V-F
	DPDT	240AC	—	5	—	7	Plug-In, $AgSnO_2$	255-2755-ND ***NEW!***	12.67	11.64	10.34	8.79	HC2-H-AC240V-F
	DPDT	100AC	—	13.2	—	7	Plug-In with LED, $AgSnO_2$	255-2759-ND ***NEW!***	12.99	11.93	10.60	9.01	HC2-HL-AC100V-F
	DPDT	115AC	—	11.4	—	7	PC Mount, $AgSnO_2$	255-2760-ND ***NEW!***	10.88	9.99	8.88	7.55	HC2-HP-AC115V-F
	DPDT	12DC	160	75	7	7	PC Mount, $AgSnO_2$	255-2761-ND ***NEW!***	9.53	8.76	7.78	6.62	HC2-HP-DC12V-F
	DPDT	24DC	650	37	7	7	PC Mount, $AgSnO_2$	255-2762-ND ***NEW!***	9.53	8.76	7.78	6.62	HC2-HP-DC24V-F
	DPDT	100AC	—	13.2	—	7	TM Type, $AgSnO_2$	255-2763-ND ***NEW!***	9.51	8.73	7.76	6.60	HC2-HTM-AC100V-F
	DPDT	24DC	650	37	—	7	Plug-In, Amber Sealed, $AgSnO_2$	255-2764-ND ***NEW!***	13.70	12.58	11.18	9.51	HC2E-H-DC24V-F
6C	3PDT	24DC	650	37	—	7	Plug-In, $AgSnO_2$	255-2765-ND ***NEW!***	10.36	9.52	8.46	7.20	HC3-H-DC24V-F
	3PDT	100AC	—	13.2	—	7	PC Mount, $AgSnO_2$	255-2766-ND ***NEW!***	10.36	9.52	8.46	7.20	HC3-HP-AC100V-F
6D	4PDT	24DC	650	37	—	5	Plug-In	255-1631-ND	11.10	10.20	9.06	7.71	HC4-H-DC24V
	4PDT	100AC	—	13.2	—	5	Plug-In	255-2767-ND ***NEW!***	12.52	11.50	10.22	8.69	HC4-H-AC100V
	4PDT	115AC	—	11.4	—	5	Plug-In	255-2768-ND ***NEW!***	12.52	11.50	10.22	8.69	HC4-H-AC115V
	4PDT	120AC	—	10.9	—	5	Plug-In	255-2769-ND ***NEW!***	12.52	11.50	10.22	8.69	HC4-H-AC120V
	4PDT	240AC	—	5	—	5	Plug-In	255-2770-ND ***NEW!***	14.36	13.19	11.72	9.97	HC4-H-AC240V
	4PDT	100AC	—	13.2	—	5	PC Mount	255-2772-ND ***NEW!***	11.00	10.11	8.98	7.64	HC4-HP-AC100V
	4PDT	115AC	—	11.9	—	5	PC Mount	255-1632-ND	12.52	11.50	10.22	8.69	HC4-HP-AC115V
	4PDT	12DC	160	75	—	5	PC Mount	255-1920-ND	11.10	10.20	9.06	7.71	HC4-HP-DC12V
	4PDT	24DC	650	37	—	5	PC Mount	255-1921-ND	11.10	10.20	9.06	7.71	HC4-HP-DC24V
	4PDT	24DC	650	37	—	3	Plug-In, Sealed	255-2774-ND ***NEW!***	14.75	13.55	12.04	10.24	HC4D-H-DC24V
	4PDT	115AC	—	11.4	—	3	Plug-In, Sealed	255-2773-ND ***NEW!***	16.12	14.81	13.16	11.19	HC4D-H-AC115V
	4PDT	24DC	650	37	—	2	Plug-In, Amber Sealed	255-2776-ND ***NEW!***	15.66	14.38	12.78	10.87	HC4E-H-DC24V
	4PDT	115AC	—	10.4	—	2	Plug-In, Amber Sealed	255-2775-ND ***NEW!***	17.27	15.87	14.10	11.99	HC4E-H-AC115V
	4PDT	24DC	650	37	—	2	PC Mount	255-2211-ND	15.66	14.38	12.78	10.87	HC4E-HP-DC24V
6E	4PDT	100AC	—	13.2	—	5	Plug-In with LED	255-2771-ND ***NEW!***	14.60	13.41	11.92	10.14	HC4-HL-AC100V
	4PDT	115AC	—	11.9	—	5	Plug-In with LED	255-1918-ND	14.75	13.55	12.04	10.24	HC4-HL-AC115V
6F	4PDT	24DC	650	37	—	5	Plug-In with LED	255-1919-ND	15.51	14.25	12.66	10.77	HC4-HL-DC24V
	4PDT	24DC	650	37	—	2	Sealed with LED	255-1925-ND	25.01	22.98	20.42	17.36	HC4E-L-DC24V
PC Board Socket with hold-down clip for SPDT HC1 Relays								255-1941-ND	1.54	1.42	1.26	1.08	HC1-PS-K
PC Board Socket with hold-down clip for DPDT HC2 Series								255-1629-ND	1.62	1.49	1.32	1.13	HC2-PS-K
Din Rail Mount Screw Terminal Socket for HC2 Series								255-1630-ND	4.41	4.05	3.60	3.06	HC2-SF-K
Din Rail Socket Screw terminal with hold-down clip for HC2 Relay								255-1942-ND	1.54	1.42	1.26	1.08	HC2-SFD-K
Socket Screw terminal with hold-down clip for Slim HC2 Relay								255-1943-ND	4.68	4.30	3.82	3.25	HC2-SFD-S
PC Board Socket with hold-down clip for 3PDT HC3 Relays								255-2210-ND	1.69	1.56	1.38	1.18	HC3-PS-K
Din Rail Mount Screw Terminal Socket for 3PDT HC3 Series								255-1840-ND	6.62	6.08	5.40	4.59	HC3-SFD-K
PC Board Socket with hold-down clip for 4PDT HC4 Series								255-1633-ND	1.86	1.71	1.52	1.30	HC4-PS-K
Din Rail Mount Screw Terminal Socket for 4PDT HC4 Series								255-1841-ND	7.72	7.09	6.30	5.36	HC4-SFD-K
HE Series Power Relays													
7A	SPST	24AC	300	74	—	30	QC Terminal	255-1640-ND	22.34	20.52	18.24	15.51	HE1AN-AC24V
	SPST	120AC	5,200	22.1	—	30	QC Terminal	255-1638-ND	22.34	20.52	18.24	15.51	HE1AN-AC120V
	SPST	240AC	20,800	10.8	—	30	QC Terminal	255-1639-ND	22.34	20.52	18.24	15.51	HE1AN-AC240V
	SPST	12DC	75	160	—	30	QC Terminal	255-1641-ND	18.60	17.08	15.18	12.91	HE1AN-DC12V
	SPST	24DC	300	80	—	30	QC Terminal	255-1642-ND	18.60	17.08	15.18	12.91	HE1AN-DC24V
	SPST	120AC	5,200	22.1	—	30	Screw Terminal	255-1651-ND	28.67	26.33	23.40	19.89	HE1AN-S-AC120V
	SPST	12DC	75	160	—	30	Screw Terminal	255-1653-ND	26.66	24.48	21.76	18.50	HE1AN-S-DC12V
	SPST	24DC	300	80	—	30	Screw Terminal	255-1654-ND	26.66	24.48	21.76	18.50	HE1AN-S-DC24V
	SPST	120AC	5,200	22.1	—	30	NEMA Terminal	255-1646-ND	22.34	20.52	18.24	15.51	HE1AN-Q-AC120V
	SPST	240AC	20,800	10.8	—	30	NEMA Terminal	255-1647-ND	22.34	20.52	18.24	15.51	HE1AN-Q-AC240V
	SPST	12DC	75	160	—	30	NEMA Terminal	255-1648-ND	18.60	17.08	15.18	12.91	HE1AN-Q-DC12V
	SPST	24DC	300	80	—	30	NEMA Terminal	255-1649-ND	18.60	17.08	15.18	12.91	HE1AN-Q-DC24V
	SPST	48DC	1,200	40	—	30	NEMA Terminal	255-1650-ND	18.60	17.08	15.18	12.91	HE1AN-Q-DC48V
7B	DPST	12DC	75	160	—	25	QC Terminal	255-1659-ND	19.60	18.00	16.00	13.60	HE2AN-DC12V
	DPST	24DC	300	80	—	25	QC Terminal	255-1660-ND	19.60	18.00	16.00	13.60	HE2AN-DC24V
	DPST	240AC	20,800	10.8	—	25	Screw Terminal	255-1668-ND	29.55	27.14	24.12	20.51	HE2AN-S-AC240V
	DPST	12DC	75	160	—	25	Screw Terminal	255-1669-ND	27.66	25.41	22.58	19.20	HE2AN-S-DC12V
	DPST	24DC	300	80	—	25	Screw Terminal	255-1670-ND	27.66	25.41	22.58	19.20	HE2AN-S-DC24V
	DPST	24DC	300	80	—	25	Screw Terminal w/Wide Pitch	255-2783-ND ***NEW!***	26.88	24.69	21.94	18.65	HE2AN-SW-DC24V
	DPST	12DC	75	160	—	25	NEMA Terminal	255-1664-ND	19.60	18.00	16.00	13.60	HE2AN-Q-DC12V
	DPST	24DC	300	80	—	25	NEMA Terminal	255-2782-ND ***NEW!***	19.60	18.00	16.00	13.60	HE2AN-Q-DC24V
	DPST	120AC	5,200	22.1	—	25	NEMA Terminal	255-2781-ND ***NEW!***	23.50	21.58	19.18	16.31	HE2AN-Q-AC120V

† Cut Tape ‡ Tape and Reel

Fig. 6 ***HC Series– PCB***

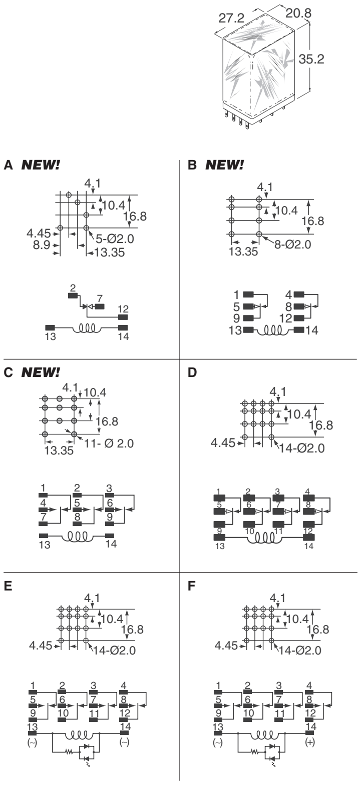

Fig. 7 ***HE Series***

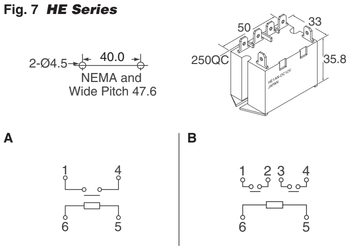

Fig. 8 ***HE Series NEW!***

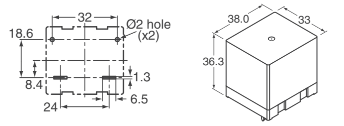

Fig. 9 ***HJ Series – PCB***

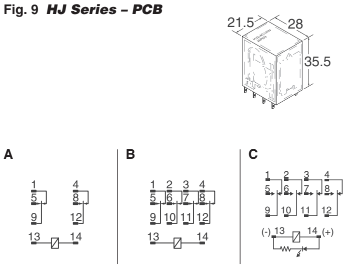

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Fig. 10 *HG Series NEW!*

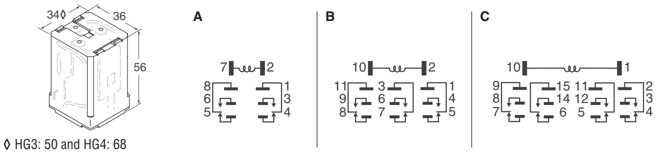

◊ HG3: 50 and HG4: 68

Fig. 11 *HL Series*

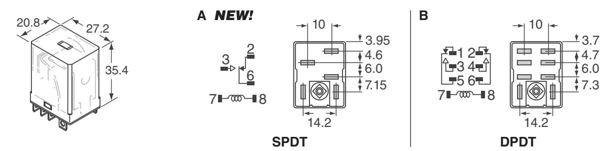

SPDT DPDT

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Panasonic Part No.
8	SPST-NO	6DC	18.8	320.9	—	48	PCB, Solar Inverter	255-2779-ND ***NEW!***	32.12	29.50	26.22	22.29	HE1AN-P-DC6V-Y5
	SPST-NO	9DC	42.2	213	—	48	PCB, Solar Inverter	255-2780-ND ***NEW!***	32.12	29.50	26.22	22.29	HE1AN-P-DC9V-Y5
	SPST-NO	12DC	75	160	—	48	PCB, Solar Inverter	255-2777-ND ***NEW!***	32.12	29.50	26.22	22.29	HE1AN-P-DC12V-Y5
	SPST-NO	24DC	300	80	—	48	PCB, Solar Inverter	255-2778-ND ***NEW!***	32.12	29.50	26.22	22.29	HE1AN-P-DC24V-Y5
HJ Series General Purpose Power Relays													
9A	DPDT	24DC	650	37	—	7	—	255-1679-ND	5.49	5.04	4.48	3.81	HJ2-DC24V
9B	4PDT	12DC	160	75	—	5	—	255-1687-ND	5.64	5.18	4.60	3.91	HJ4-DC12V
9C	4PDT	12DC	160	75	—	5	With LED	255-1691-ND	6.39	5.88	5.22	4.44	HJ4-L-DC12V
	4PDT	24DC	650	37	—	5	With LED	255-1692-ND	6.62	6.08	5.40	4.59	HJ4-L-DC24V
Din Rail Mount Screw Terminal Socket for DPDT HJ2 Series								255-1838-ND	3.60	3.31	2.94	2.50	HJ2-SFD-S
Din Rail Mount Screw Terminal Socket for 4PDT HJ4 Series								255-1839-ND	4.95	4.55	4.04	3.44	HJ4-SFD-S
NEW! HG Series Relays NEW!													
10A	DPDT	12DC	100	119.6	—	20	Plug-In	255-2933-ND	27.69	25.43	22.60	19.21	HG2-DC12V-F
	DPDT	24DC	416	57.6	—	20	Plug-In	255-2785-ND	27.69	25.43	22.60	19.21	HG2-DC24V-F
	DPDT	115AC	—	31.3	—	20	Plug-In	255-2784-ND	30.72	28.22	25.08	21.32	HG2-AC115V-F
10B	3PDT	24DC	364	66	—	20	Plug-In	255-2788-ND	34.91	32.07	28.50	24.23	HG3-DC24V-F
	3PDT	115AC	—	45.2	—	20	Plug-In	255-2787-ND	40.01	36.75	32.66	27.77	HG3-AC115V-F
10C	4PDT	110DC	5,420	20.3	—	20	Plug-In	255-2790-ND	47.78	43.88	39.00	33.15	HG4-DC110V-F
	4PDT	115AC	—	66.1	—	20	Plug-In	255-2789-ND	47.78	43.88	39.00	33.15	HG4-AC115V-F
Din Rail Mount Screw Terminal Socket for DPDT HG2 Series								255-2786-ND	16.34	15.01	13.34	11.34	HG2-SFDUL
HL Series Relays													
11A	SPDT	12DC	160	75	—	15	Plug-In	255-2791-ND ***NEW!***	8.92	8.19	7.28	6.19	HL1-H-DC12V-F
	SPDT	24DC	650	37	—	15	Plug-In	255-2792-ND ***NEW!***	8.92	8.19	7.28	6.19	HL1-H-DC24V-F
	SPDT	24AC	—	56	—	15	TM Type	255-2794-ND ***NEW!***	8.92	8.19	7.28	6.19	HL1-HTM-AC24V-F
	SPDT	100AC	—	12	—	15	TM Type	255-2793-ND ***NEW!***	9.80	9.00	8.00	6.80	HL1-HTM-AC100V-F
11B	DPDT	12DC	160	75	—	10	Plug-In	255-2799-ND ***NEW!***	10.36	9.52	8.46	7.20	HL2-H-DC12V-F
	DPDT	24DC	650	37	—	10	Plug-In	255-2801-ND ***NEW!***	10.36	9.52	8.46	7.20	HL2-H-DC24V-F
	DPDT	24AC	—	56	—	10	Plug-In	255-2798-ND ***NEW!***	10.36	9.52	8.46	7.20	HL2-H-AC24V-F
	DPDT	100AC	—	12	—	10	Plug-In	255-2795-ND ***NEW!***	11.00	10.11	8.98	7.64	HL2-H-AC100V-F
	DPDT	115AC	—	10.4	—	10	Plug-In	255-2796-ND ***NEW!***	11.96	10.98	9.76	8.30	HL2-H-AC115V-F
	DPDT	120AC	—	10	—	10	Plug-In	255-2797-ND ***NEW!***	11.39	10.47	9.30	7.91	HL2-H-AC120V-F
	DPDT	12DC	160	75	—	10	PC Mount	255-2395-ND	10.39	9.54	8.48	7.21	HL2-HP-DC12V-F
	DPDT	24DC	650	37	—	10	PC Mount	255-2804-ND ***NEW!***	10.39	9.54	8.48	7.21	HL2-HP-DC24V-F
	DPDT	100AC	—	12	—	10	PC Mount	255-2802-ND ***NEW!***	12.99	11.93	10.60	9.01	HL2-HP-AC100V-F
	DPDT	115AC	—	10.4	—	10	PC Mount	255-2803-ND ***NEW!***	11.00	10.11	8.98	7.64	HL2-HP-AC115V-F
	DPDT	12DC	160	75	—	10	TM Type	255-2807-ND ***NEW!***	10.39	9.54	8.48	7.21	HL2-HTM-DC12V-F
	DPDT	24AC	—	56	—	10	TM Type	255-2806-ND ***NEW!***	10.39	9.54	8.48	7.21	HL2-HTM-AC24V-F
	DPDT	100AC	—	12	—	10	TM Type	255-2805-ND ***NEW!***	11.20	10.29	9.14	7.77	HL2-HTM-AC100V-F
Din Rail Mount Screw Terminal Socket for HL2 Series								255-2808-ND ***NEW!***	6.30	5.79	5.14	4.37	HL2-SFD-K
PCB Mount Socket for SP/DP Plug-In Relays								255-2218-ND	1.74	1.60	1.42	1.21	HL2-PS-K
NEW! AHK Series Relays NEW!													
12	DPDT	24DC	650	37	—	10	Plug-In with LED	255-2631-ND	13.13	12.06	10.72	9.12	AHK22124
Din Rail Mount Screw Terminal Socket for DPDT AHK Series								255-2632-ND	7.23	6.64	5.90	5.02	AHKA21
NEW! HP Series Relays NEW!													
13	4PDT	100AC	—	57.3	—	10	Plug-In, Silver Alloy	255-2809-ND	24.18	22.21	19.74	16.78	HP4-AC100V-F
AHN Series Slim and Compact Relays													
14	DPDT	12DC	270	44.2	5	5	—	255-1509-ND	5.68	5.22	4.64	3.95	AHN22012
	DPDT	24DC	1,090	22.1	5	5	—	255-1510-ND	5.90	5.43	4.82	4.10	AHN22024
	DPDT	24AC	—	46.5	5	5	—	255-1861-ND	6.03	5.54	4.92	4.19	AHN21024
	DPDT	120AC	—	9.7	5	5	—	255-1506-ND	6.64	6.10	5.42	4.61	AHN210X1
	DPDT	12DC	270	44.2	5	5	With LED	255-1512-ND	6.74	6.19	5.50	4.68	AHN22112
Screw Terminal Socket - DIN Rail Type for AHN Relays								255-1802-ND	5.90	5.43	4.82	4.10	AHNA21
JC Series Compact Power PCB Relays													
15A	SPST-NO	5DC	40	425	15	15	TV-8 Inrush	255-2380-ND	6.00	5.52	4.90	4.17	JC1AF-DC5V-F
	SPST-NO	6DC	40	150	15	15	TV-8 Inrush	255-2810-ND ***NEW!***	6.62	6.08	5.40	4.59	JC1AF-DC6V-F
	SPST-NO	12DC	160	75	15	15	TV-8 Inrush	255-2381-ND	6.62	6.08	5.40	4.59	JC1AF-DC12V-F
	SPST-NO	24DC	640	37.5	15	15	TV-8 Inrush	255-2382-ND	6.62	6.08	5.40	4.59	JC1AF-DC24V-F
15B	DPST-NO	5DC	36	138.8	10	10	TV-5 Inrush	255-2383-ND	3.87	3.56	3.16	2.69	JC2AF-DC5V-F
	DPST-NO	6DC	36	166.6	10	10	TV-5 Inrush	255-2384-ND	7.67	7.05	6.26	5.33	JC2AF-DC6V-F
	DPST-NO	12DC	144	83.3	10	10	TV-5 Inrush	255-2385-ND	7.67	7.05	6.26	5.33	JC2AF-DC12V-F
	DPST-NO	24DC	576	41.6	10	10	TV-5 Inrush	255-2386-ND	7.67	7.05	6.26	5.33	JC2AF-DC24V-F
	DPST-NO	48DC	2,304	20.8	10	10	TV-5 Inrush	255-2970-ND ***NEW!***	8.28	7.61	6.76	5.75	JC2AF-DC48V-F
JC Series Compact Power Plug-In Relays													
15A	SPST-NO	12DC	160	75	15	15	TV-8 Inrush, Plug-In	255-2811-ND ***NEW!***	6.62	6.08	5.40	4.59	JC1AF-S-DC12V-F
	SPST-NO	24DC	640	37.5	15	15	TV-8 Inrush, Plug-In	255-2967-ND ***NEW!***	6.62	6.08	5.40	4.59	JC1AF-S-DC24V-F
	SPST-NO	12DC	160	75	15	15	TV-8 Inrush, Top Mount	255-2968-ND ***NEW!***	6.62	6.08	5.40	4.59	JC1AF-TM-DC12V-F
	SPST-NO	24DC	640	37.5	15	15	TV-8 Inrush, Top Mount	255-2969-ND ***NEW!***	6.62	6.08	5.40	4.59	JC1AF-TM-DC24V-F
15C	DPST-NO	6DC	36	166.6	10	10	TV-5 Inrush, Plug-In	255-2365-ND	7.67	7.05	6.26	5.33	JC2AF-S-DC6V-F
	DPST-NO	12DC	144	83.3	10	10	TV-5 Inrush, Plug-In	255-2366-ND	7.67	7.05	6.26	5.33	JC2AF-S-DC12V-F
	DPST-NO	24DC	576	41.6	10	10	TV-5 Inrush, Plug-In	255-2367-ND	7.67	7.05	6.26	5.33	JC2AF-S-DC24V-F
	DPST-NO	12DC	144	83.3	10	10	TV-5 Inrush, Top Mount	255-2387-ND	7.67	7.05	6.26	5.33	JC2AF-TM-DC12V-F
	DPST-NO	24DC	576	41.6	10	10	TV-5 Inrush, Top Mount	255-2388-ND	7.67	7.05	6.26	5.33	JC2AF-TM-DC24V-F
JK Series Slim High Capacity Power Relays													
16	SPST	5DC	125	40	5	8	$AgSnO_2$	255-2934-ND ***NEW!***	4.12	3.78	3.36	2.86	JK1AP-5V-F
	SPST	12DC	720	17	5	8	$AgSnO_2$	255-2390-ND	3.72	3.42	3.04	2.59	JK1AP-12V-F

† Cut Tape ‡ Tape and Reel

Fig. 12 *AHK Series NEW!*

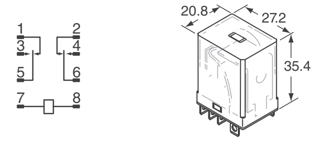

Fig. 13 *HP Series NEW!*

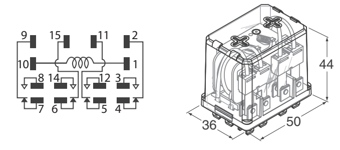

Fig. 14 *AHN Series*

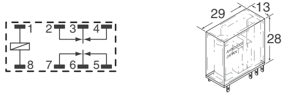

Fig. 15 *JC Series*

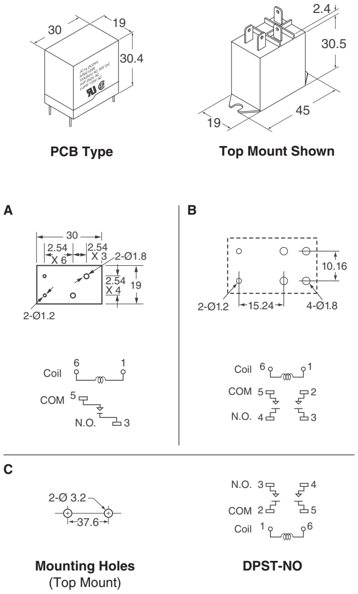

PCB Type
Top Mount Shown

Mounting Holes
(Top Mount)

DPST-NO

Fig. 16 *JK Series – PCB*

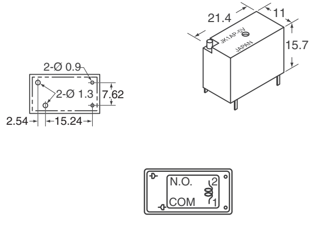

(Continued)

Fig. 17 ***JM Series – PCB***

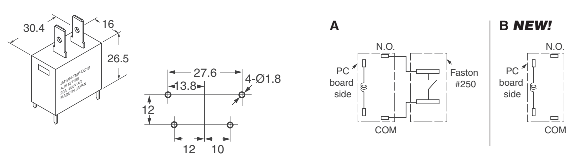

Fig. 18 ***Flat JM Series NEW!***

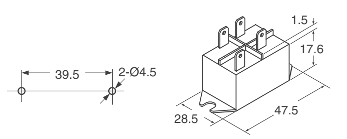

Fig. 19 ***JJM Series – PCB***

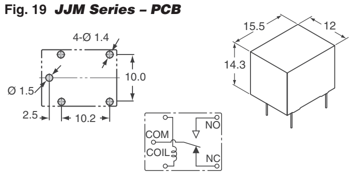

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
JM Series Power Relays													
17A	SPST-NO	24DC	640	37.5	20	20	PCB Mount with QC	255-1124-ND	5.24	4.82	4.28	3.64	JM1AN-TMP-DC24V
	SPST-NO	5DC	27.8	180	20	20	PCB Mount with QC	255-2896-ND ***NEW!***	5.66	5.20	4.62	3.93	JM1AN-TMP-DC5V-F
	SPST-NO	12DC	160	75	20	20	PCB Mount with QC	255-2893-ND ***NEW!***	5.66	5.20	4.62	3.93	JM1AN-TMP-DC12V-F
	SPST-NO	24DC	640	37.5	20	20	PCB Mount with QC	255-2894-ND ***NEW!***	5.66	5.20	4.62	3.93	JM1AN-TMP-DC24V-F
	SPST-NO	48DC	2,560	18.75	20	20	PCB Mount with QC	255-2895-ND ***NEW!***	5.66	5.20	4.62	3.93	JM1AN-TMP-DC48V-F
17B	SPST-NO	24DC	640	37.5	20	20	PCB Mount Only	255-2935-ND ***NEW!***	4.34	3.99	3.54	3.01	JM1AN-P-DC24V-F
NEW! Flat JM Series Power Relays NEW!													
18	SPST-NO	5DC	27.8	180	20	20	Flat TM Type	255-2936-ND	5.66	5.20	4.62	3.93	JM1AN-ZTM-DC5V-F
JJM Automotive Relays													
19	SPDT	12DC	225	53.3	20	—	Sealed Case	255-2220-ND	3.01	2.77	2.46	2.10	JJM1-12V
JQ Series High Noise Immunity Power Relays													
20A	SPDT	5DC	62.5	80	5	5	AgCd	255-1263-ND	3.87	3.56	3.16	2.69	JQ1-5V
	SPDT	12DC	360	33.3	5	5	AgCd	255-1264-ND	3.87	3.56	3.16	2.69	JQ1-12V
	SPDT	24DC	1,440	16.7	5	5	AgCd	255-1265-ND	3.87	3.56	3.16	2.69	JQ1-24V
	SPDT	5DC	62.5	80	5	5	AgSnO$_2$	255-2073-ND	3.87	3.56	3.16	2.69	JQ1-5V-F
	SPDT	12DC	360	33.3	5	5	AgSnO$_2$	255-2074-ND	3.87	3.56	3.16	2.69	JQ1-12V-F
	SPDT	24DC	1,440	16.7	5	5	AgSnO$_2$	255-2075-ND	3.87	3.56	3.16	2.69	JQ1-24V-F
	SPDT	5DC	62.5	80	5	10	AgCd, High Capacity	255-1933-ND	4.24	3.90	3.46	2.95	JQ1P-5V
	SPDT	9DC	202.5	44.4	5	10	AgCd, High Capacity	255-1934-ND	4.24	3.90	3.46	2.95	JQ1P-9V
	SPDT	12DC	360	33.3	5	10	AgCd, High Capacity	255-1704-ND	4.24	3.90	3.46	2.95	JQ1P-12V
	SPDT	24DC	1,440	16.7	5	10	AgCd, High Capacity	255-1705-ND	4.24	3.90	3.46	2.95	JQ1P-24V
	SPDT	5DC	62.5	80	5	10	AgSnO$_2$, High Capacity	255-2076-ND	4.24	3.90	3.46	2.95	JQ1P-5V-F
	SPDT	12DC	360	33.3	5	10	AgSnO$_2$, High Capacity	255-2077-ND	4.24	3.90	3.46	2.95	JQ1P-12V-F
	SPDT	24DC	1,440	16.7	5	10	AgSnO$_2$, High Capacity	255-2078-ND	4.24	3.90	3.46	2.95	JQ1P-24V-F
20B	SPST	5DC	125	40	5	5	AgCd	255-1463-ND	3.53	3.24	2.88	2.45	JQ1A-5V
	SPST	12DC	720	16.7	5	5	AgCd	255-1464-ND	3.53	3.24	2.88	2.45	JQ1A-12V
	SPST	24DC	2,880	8.3	5	5	AgCd	255-1465-ND	3.53	3.24	2.88	2.45	JQ1A-24V
	SPST	5DC	125	40	5	5	AgSnO$_2$	255-2067-ND	3.53	3.24	2.88	2.45	JQ1A-5V-F
	SPST	12DC	720	16.7	5	5	AgSnO$_2$	255-2068-ND	3.53	3.24	2.88	2.45	JQ1A-12V-F
	SPST	24DC	2,880	8.3	5	5	AgSnO$_2$	255-2069-ND	3.53	3.24	2.88	2.45	JQ1A-24V-F
	SPST	5DC	125	40	5	10	AgCd, High Capacity	255-1703-ND	3.87	3.56	3.16	2.69	JQ1AP-5V
	SPST	12DC	720	16.7	5	10	AgCd, High Capacity	255-1701-ND	3.87	3.56	3.16	2.69	JQ1AP-12V
	SPST	24DC	2,880	8.3	5	10	AgCd, High Capacity	255-1702-ND	3.87	3.56	3.16	2.69	JQ1AP-24V
	SPST	5DC	125	40	5	10	AgSnO$_2$, High Capacity	255-2070-ND	3.87	3.56	3.16	2.69	JQ1AP-5V-F
	SPST	12DC	720	16.7	5	10	AgSnO$_2$, High Capacity	255-2071-ND	3.87	3.56	3.16	2.69	JQ1AP-12V-F
	SPST	12DC	720	16.7	5	10	High Capacity, Class B Coil	255-2937-ND ***NEW!***	4.21	3.87	3.44	2.93	JQ1AP-B-12V-F
	SPST	24DC	2,880	8.3	5	10	AgSnO$_2$, High Capacity	255-2072-ND	3.87	3.56	3.16	2.69	JQ1AP-24V-F
JS Series Power Relays													
21A	SPDT	5DC	69.4	72	—	10	AgCd, Class E Coil	255-1103-ND	1.40	1.29	1.14	.97	JS1-5V
	SPDT	6DC	100	60	—	10	AgCd, Class E Coil	255-1707-ND	1.30	1.20	1.06	.91	JS1-6V
	SPDT	12DC	400	30	—	10	AgCd, Class E Coil	255-1104-ND	1.40	1.29	1.14	.97	JS1-12V
	SPDT	24DC	1,600	15	—	10	AgCd, Class E Coil	255-1105-ND	1.54	1.42	1.26	1.08	JS1-24V
	SPDT	5DC	69.4	72	—	10	AgSnO$_2$, Class E Coil	255-2064-ND	1.40	1.29	1.14	.97	JS1-5V-F
	SPDT	6DC	100	60	—	10	AgSnO$_2$, Class E Coil	255-2221-ND	1.40	1.29	1.14	.97	JS1-6V-F
	SPDT	9DC	225	40	—	10	AgSnO$_2$, Class E Coil	255-2065-ND	1.40	1.29	1.14	.97	JS1-9V-F
	SPDT	12DC	400	30	—	10	AgSnO$_2$, Class E Coil	255-2080-ND	1.40	1.29	1.14	.97	JS1-12V-F
	SPDT	24DC	1,600	15	—	10	AgSnO$_2$, Class E Coil	255-2066-ND	1.54	1.42	1.26	1.08	JS1-24V-F
	SPDT	48DC	6,400	7.5	—	10	AgSnO$_2$, Class E Coil	255-2813-ND ***NEW!***	1.86	1.71	1.52	1.30	JS1-48V-F
	SPDT	24DC	1,600	15	—	10	AgSnO$_2$, Class B Coil	255-2814-ND ***NEW!***	1.57	1.44	1.28	1.09	JS1-B-24V
	SPDT	5DC	69.4	72	—	10	AgSnO$_2$, Class B Coil	255-1717-ND	1.54	1.42	1.26	1.08	JS1-B-5V-F
	SPDT	9DC	225	40	—	10	AgSnO$_2$, Class B Coil	255-1718-ND	1.54	1.42	1.26	1.08	JS1-B-9V-F
	SPDT	12DC	400	30	—	10	AgSnO$_2$, Class B Coil	255-1715-ND	1.54	1.42	1.26	1.08	JS1-B-12V-F
	SPDT	24DC	1,600	15	—	10	AgSnO$_2$, Class B Coil	255-1716-ND	1.57	1.44	1.28	1.09	JS1-B-24V-F
	SPDT	48DC	6,400	7.5	—	10	AgSnO$_2$, Class B Coil	255-2892-ND ***NEW!***	2.03	1.87	1.66	1.42	JS1-B-48V-F
	SPDT	6DC	100	60	—	10	AgSnO$_2$, Class F Coil	255-2890-ND ***NEW!***	2.01	1.85	1.64	1.40	JS1-F-6V-F
	SPDT	9DC	225	40	—	10	AgSnO$_2$, Class F Coil	255-2891-ND ***NEW!***	1.40	1.29	1.14	.97	JS1-F-9V-F
	SPDT	48DC	6,400	7.5	—	10	AgSnO$_2$, Class F Coil	255-2889-ND ***NEW!***	2.35	2.16	1.92	1.64	JS1-F-48V-F
21B	SPST	5DC	69.4	72	—	10	AgCd, Class E Coil	255-1106-ND	1.35	1.24	1.10	.94	JS1A-5V
	SPST	5DC	69.4	72	—	10	AgSnO$_2$, Class E Coil	255-2061-ND	1.35	1.24	1.10	.94	JS1A-5V-F
	SPST	9DC	225	40	—	10	AgSnO$_2$, Class E Coil	255-2062-ND	1.35	1.24	1.10	.94	JS1A-9V-F
	SPST	12DC	400	30	—	10	AgCd, Class E Coil	255-1107-ND	1.35	1.24	1.10	.94	JS1A-12V
	SPST	12DC	400	30	—	10	AgSnO$_2$, Class E Coil	255-2081-ND	1.35	1.24	1.10	.94	JS1A-12V-F
	SPST	24DC	1,600	15	—	10	AgCd, Class E Coil	255-1108-ND	1.37	1.26	1.12	.96	JS1A-24V
	SPST	24DC	1,600	15	—	10	AgSnO$_2$, Class E Coil	255-2063-ND	1.37	1.26	1.12	.96	JS1A-24V-F
	SPST	5DC	69.4	72	—	10	AgSnO$_2$, Class B Coil	255-1712-ND	1.37	1.26	1.12	.96	JS1A-B-5V-F
	SPST	9DC	225	40	—	10	AgSnO$_2$, Class B Coil	255-1713-ND	1.37	1.26	1.12	.96	JS1A-B-9V-F
	SPST	12DC	400	30	—	10	AgSnO$_2$, Class B Coil	255-1710-ND	1.37	1.26	1.12	.96	JS1A-B-12V-F
	SPST	24DC	1,600	15	—	10	AgSnO$_2$, Class B Coil	255-1711-ND	1.40	1.29	1.14	.97	JS1A-B-24V-F
NEW! CA1 Series Small Light Weight Automotive Relays NEW!													
—	SPDT	12DC	80	150	20	—	Sealed, Screw Mount Type	255-2725-ND	5.41	4.98	4.42	3.76	CA1-DC12V-N
CP Series Mini Automotive Relay													
22A	SPDT	12DC	180	53	20	—	Low Pro-Sealed	255-1939-ND	2.65	2.43	2.16	1.84	CP1-12V
22B	SPST-NO	12DC	180	53	20	—	Low Pro-Sealed	255-1940-ND	2.57	2.37	2.10	1.79	CP1A-12V
CF Series Dual Automotive Relay													
23	2x SPDT	12DC	225	53.3	30	—	Twin Relay	255-2182-ND	5.27	4.84	4.30	3.66	CF2-12V
CM Series Automotive Relays													
24A	SPDT	12DC	96	125	35	—	Plug-In	255-2183-ND	3.53	3.24	2.88	2.45	CM1-12V
	SPDT	12DC	96	125	35	—	With Diode	255-2184-ND	3.72	3.42	3.04	2.59	CM1-D-12V

† Cut Tape ‡ Tape and Reel

Fig. 20 ***JQ Series – PCB***

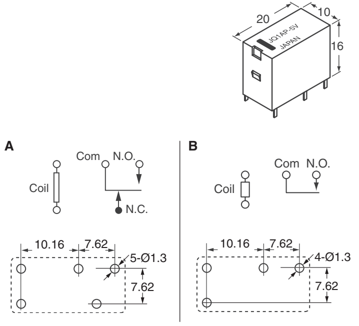

Fig. 21 ***JS Series – PCB***

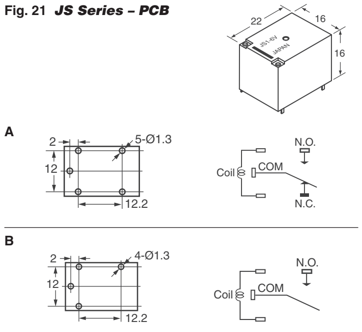

Fig. 22 ***CP Series – PCB***

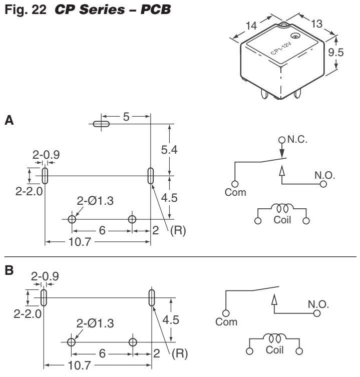

Fig. 23 ***CF Series – PCB***

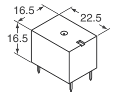

Fig. 24 ***CM Series – PCB***

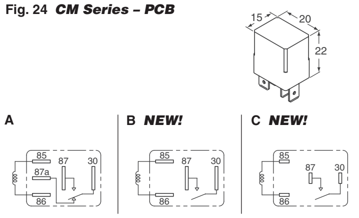

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Power Relays *(Cont.)*

Fig. 25 ***CT Series – PCB***

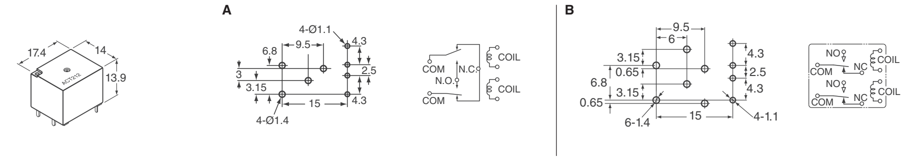

Fig. 26 ***Slim CT Series - PCB NEW!***

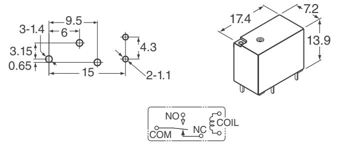

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
24A	SPDT	12DC	96	125	35	—	PC Mount	255-2734-ND ***NEW!***	3.53	3.24	2.88	2.45	CM1-P-12V
	SPDT	12DC	96	125	35	—	With Resistor	255-2185-ND	3.58	3.29	2.92	2.49	CM1-R-12V
	SPDT	12DC	96	125	35	—	PCB with Resistor	255-2186-ND	3.58	3.29	2.92	2.49	CM1-R-P-12V
24B	SPST-NO	12DC	96	125	35	—	Plug-In	255-2735-ND ***NEW!***	3.36	3.09	2.74	2.33	CM1A-12V
24C	SPST-NO	12DC	96	125	35	—	PC Mount	255-2736-ND ***NEW!***	3.36	3.09	2.74	2.33	CM1A-P-12V
CT Series Dual Automotive Relays													
25A	2x SPDT	12DC	180	66.7	20	—	Twin Relay 8Pin	255-1851-ND	4.02	3.69	3.28	2.79	ACT212
25B	2x SPDT	12DC	180	66.7	20	—	Twin Relay 10Pin	255-1852-ND	4.02	3.69	3.28	2.79	ACT512
NEW! CT Series Slim Automotive Relays NEW!													
26	SPDT	12DC	180	66.7	20	—	—	255-2591-ND	2.43	2.23	1.98	1.69	ACT112
ACNH/ACNM Series Automotive Relay													
27	SPST	12DC	320	37.5	30	—	High Load PCB Type	255-2583-ND	4.19	3.85	3.42	2.91	ACNH3212
28	SPST	12DC	225	53.3	30	—	High Temperature SMT	255-2584-1-ND†	3.90	3.58	3.18	2.71	ACNM7112SAX
	SPST	12DC	225	53.3	30	—	High Temperature SMT	255-2584-2-ND‡	540.60/200				ACNM7112SAX
NEW! ACV Series Automotive Low Profile Micro-ISO/Micro-280 Relays NEW!													
29A	SPDT	12DC	—	67	20	—	Plug-In	255-2592-ND	4.04	3.72	3.30	2.81	ACV12012
29B	SPST-NO	12DC	—	67	20	—	Plug-In	255-2593-ND	3.94	3.63	3.22	2.74	ACV32012
AEV Series High-Capacity Automotive Compact Relays													
30	SPST	12DC	31.2	375	80	—	M4 Screw	255-2579-ND	172.36	158.29	140.70	119.60	AEV18012W
	SPST	24DC	7.3	188	80	—	M4 Screw	255-2580-ND	172.36	158.29	140.70	119.60	AEV18024W
	SPST	12DC	31.2	3300	300	—	M8 Bolt	255-2581-ND	636.41	584.46	519.52	441.60	AEV19012W
	SPST	24DC	7.3	1850	300	—	M8 Bolt	255-2582-ND	636.41	584.46	519.52	441.60	AEV19024W
CB Series ISO Automotive Relays													
31A	SPDT	12DC	103	117	40A@14VDC		.250” QC Sealed	255-1825-ND	4.41	4.05	3.60	3.06	CB1-12V
	SPDT	24DC	320	75	20A@28VDC		.250” QC Sealed	255-1824-ND	4.70	4.32	3.84	3.27	CB1-24V
	SPDT	12DC	103	117	40A@14VDC		QC with Diode	255-2159-ND	4.70	4.32	3.84	3.27	CB1-D-12V
	SPDT	24DC	320	75	20A@28VDC		QC with Diode	255-2160-ND	4.95	4.55	4.04	3.44	CB1-D-24V
	SPDT	12DC	103	117	40A@14VDC		QC with Molded Bracket	255-1830-ND	4.58	4.21	3.74	3.18	CB1-M-12V
	SPDT	24DC	411	58	20A@28VDC		QC with Molded Bracket	255-1831-ND	4.85	4.46	3.96	3.37	CB1-M-24V
	SPDT	12DC	103	117	40A@14VDC		PCB Fully Sealed	255-1832-ND	4.41	4.05	3.60	3.06	CB1-P-12V
	SPDT	24DC	411	58	20A@28VDC		PCB Fully Sealed	255-1833-ND	4.70	4.32	3.84	3.27	CB1-P-24V
	SPDT	12DC	103	134	40A@14VDC		QC with Resistor	255-2161-ND	4.46	4.10	3.64	3.10	CB1-R-12V
	SPDT	24DC	320	75	20A@28VDC		QC with Resistor	255-2162-ND	4.75	4.37	3.88	3.30	CB1-R-24V
	SPDT	12DC	103	134	40A@14VDC		QC with Molded Bracket	255-2163-ND	4.66	4.28	3.80	3.23	CB1-R-M-12V
	SPDT	12DC	103	134	40A@14VDC		QC Weather Proof	255-2164-ND	5.00	4.59	4.08	3.47	CB1-R-SM-12V
	SPDT	12DC	103	117	40A@14VDC		Heat Resistant Type	255-2726-ND ***NEW!***	6.54	6.01	5.34	4.54	CB1-T-12V
	SPDT	12DC	103	117	40A@14VDC		QC Weather Proof	255-2165-ND	5.15	4.73	4.20	3.57	CB1-WM-12V
	SPDT	12DC	103	117	40A@14VDC		QC Flux Resistant	255-2179-ND	4.36	4.01	3.56	3.03	CB1F-12V
	SPDT	24DC	320	75	40A@14VDC		QC Flux Resistant	255-2728-ND ***NEW!***	4.66	4.28	3.80	3.23	CB1F-24V
	SPDT	12DC	103	117	40A@14VDC		Flux Resistant Bracket w/Diode	255-2729-ND ***NEW!***	4.80	4.41	3.92	3.34	CB1F-D-M-12V
	SPDT	12DC	103	117	40A@14VDC		QC with Molded Bracket	255-2730-ND ***NEW!***	4.53	4.17	3.70	3.15	CB1F-M-12V
	SPDT	24DC	320	75	40A@14VDC		QC with Molded Bracket	255-2731-ND ***NEW!***	4.78	4.39	3.90	3.32	CB1F-M-24V
	SPDT	12DC	103	134	40A@14VDC		QC with Resistor	255-2181-ND	4.41	4.05	3.60	3.06	CB1F-R-12V
	SPDT	24DC	320	75	40A@14VDC		QC with Resistor	255-2732-ND ***NEW!***	4.70	4.32	3.84	3.27	CB1F-R-24V
	SPDT	12DC	103	117	40A@12VDC		QC Weather Proof w/Resistor	255-2733-ND ***NEW!***	5.15	4.73	4.20	3.57	CB1F-R-WM-12V
	SPDT	12DC	103	117	40A@14VDC		PCB Flux Sealed	255-2180-ND	4.36	4.01	3.56	3.03	CB1F-P-12V
31B	SPST-NO	12DC	103	117	40A@14VDC		.250” QC Sealed	255-1826-ND	4.19	3.85	3.42	2.91	CB1A-12V
	SPST-NO	24DC	411	58	20A@28VDC		.250” QC Sealed	255-1827-ND	4.43	4.08	3.62	3.08	CB1A-24V
	SPST-NO	12DC	103	117	40A@14VDC		PCB with Diode	255-2168-ND	4.43	4.08	3.62	3.08	CB1A-D-P-12V
	SPST-NO	12DC	103	117	40A@14VDC		QC with Molded Bracket	255-1828-ND	4.34	3.99	3.54	3.01	CB1A-M-12V
	SPST-NO	24DC	411	58	20A@28VDC		QC with Molded Bracket	255-1829-ND	4.66	4.28	3.80	3.23	CB1A-M-24V
	SPST-NO	12DC	103	117	40A@14VDC		PCB Mount	255-1834-ND	4.19	3.85	3.42	2.91	CB1A-P-12V
	SPST-NO	24DC	411	58	20A@28VDC		PCB Fully Sealed	255-1835-ND	4.43	4.08	3.62	3.08	CB1A-P-24V
	SPST-NO	24DC	411	58	20A@28VDC		QC with Resistor	255-2170-ND	4.53	4.17	3.70	3.15	CB1A-R-24V
	SPST-NO	12DC	103	117	40A@14VDC		QC with Molded Bracket	255-2171-ND	4.39	4.03	3.58	3.05	CB1A-R-M-12V
	SPST-NO	12DC	103	117	40A@14VDC		QC Flux Sealed	255-2172-ND	4.12	3.78	3.36	2.86	CB1AF-12V
	SPST-NO	12DC	103	117	40A@14VDC		PCB Flux Sealed	255-2175-ND	4.12	3.78	3.36	2.86	CB1AF-P-12V
	SPST-NO	24DC	411	58	20A@28VDC		PCB Flux Sealed	255-2176-ND	4.34	3.99	3.54	3.01	CB1AF-P-24V
CB Series ISO Automotive High Capacity Relays													
31B	SPST-NO	12DC	103	117	70A@14VDC		.375” QC	255-2082-ND	5.51	5.07	4.50	3.83	CB1AH-12V
	SPST-NO	12DC	103	117	70A@14VDC		QC with Molded Bracket	255-2079-ND	5.59	5.13	4.56	3.88	CB1AH-M-12V
	SPST-NO	12DC	103	117	70A@14VDC		PCB Mount	255-2177-ND	5.81	5.34	4.74	4.03	CB1AH-P-12V
	SPST-NO	24DC	320	75	20A@28VDC		.375” QC	255-2083-ND	5.71	5.25	4.66	3.97	CB1AH-24V
	SPST-NO	24DC	411	58	20A@28VDC		PCB Mount	255-2178-ND	5.10	4.68	4.16	3.54	CB1AH-P-24V
	SPST-NO	24DC	411	58	40A@14VDC		Flux Sealed	255-2727-ND ***NEW!***	5.59	5.13	4.56	3.88	CB1AHF-24V
JSM Series Automotive Power Relays													
32A	SPDT	12DC	225	53.3	10	—	—	255-1239-ND	1.54	1.42	1.26	1.08	JSM1-12V-4
	SPDT	12DC	225	53.3	15	—	High Capacity	255-1240-ND	1.67	1.53	1.36	1.16	JSM1-12V-5
32B	SPST-NO	12DC	225	53.3	10	—	—	255-2223-ND	1.40	1.29	1.14	.97	JSM1A-12V-4
	SPST-NO	12DC	225	53.3	15	—	High Capacity	255-2815-ND ***NEW!***	1.64	1.51	1.34	1.14	JSM1A-12V-5
JTN Series Economical Relays													
33A	SPST-NO	5DC	31	—	—	30	Class F Coil	255-2816-ND ***NEW!***	3.65	3.36	2.98	2.54	JTN1AS-PA-F-DC5V
	SPST-NO	12DC	180	—	—	30	Class F Coil	255-1719-ND	3.65	3.36	2.98	2.54	JTN1AS-PA-F-DC12V
	SPST-NO	24DC	720	—	—	30	Class F Coil	255-1720-ND	3.72	3.42	3.04	2.59	JTN1AS-PA-F-DC24V
33B	SPDT	5DC	31	161	—	20	Class F Coil	255-1879-ND	3.94	3.63	3.22	2.74	JTN1S-PA-F-DC5V
	SPDT	12DC	180	66.6	—	20	Class F Coil	255-1723-ND	3.94	3.63	3.22	2.74	JTN1S-PA-F-DC12V
33B	SPDT	24DC	720	33.3	—	20	Class F Coil	255-1878-ND	4.02	3.69	3.28	2.79	JTN1S-PA-F-DC24V

† Cut Tape ‡ Tape and Reel

Fig. 27 ***ACNH Series – PCB***

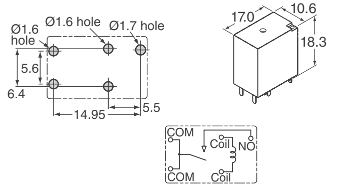

Fig. 28 ***ACNM Series***

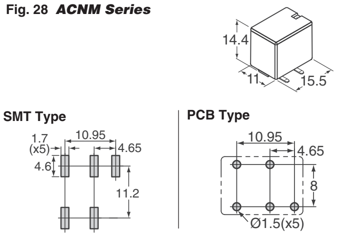

SMT Type **PCB Type**

Fig. 29 ***ACV Series - Plug-In NEW!***

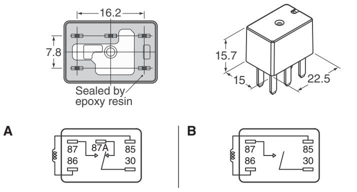

Fig. 30 ***AEV Series – PCB***

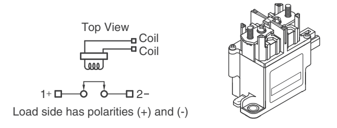

Load side has polarities (+) and (-)

Fig. 31 ***CB Sries***

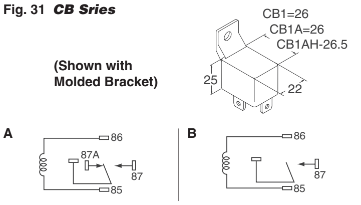

(Shown with Molded Bracket)

Fig. 32 ***JSM Series – PCB***

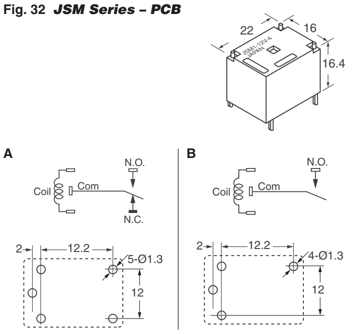

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dim. in mm

Fig. 33 ***JTN/JTV Series – PCB NEW!***

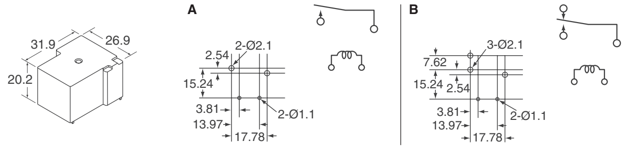

Fig. 34 ***JTN/JTV Series – TMP***

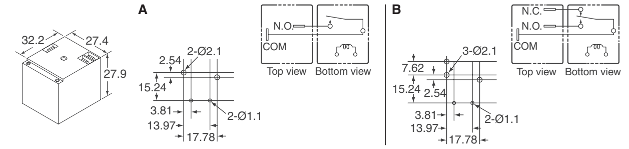

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
34A	SPST-NO	5DC	31	—	—	30	Class F Coil	255-1487-ND	3.94	3.63	3.22	2.74	JTN1AS-TMP-F-DC5V
	SPST-NO	6DC	45	—	—	30	Class F Coil	255-2224-ND	3.94	3.63	3.22	2.74	JTN1AS-TMP-F-DC6V
	SPST-NO	12DC	180	—	—	30	Class F Coil	255-1721-ND	3.94	3.63	3.22	2.74	JTN1AS-TMP-F-C12V
	SPST-NO	24DC	720	—	—	30	Class F Coil	255-1722-ND	4.02	3.69	3.28	2.79	JTN1AS-TMP-F-C24V
34B	SPDT	12DC	180	—	—	20	Class F Coil	255-1724-ND	4.21	3.87	3.44	2.93	JTN1S-TMP-F-DC12V
NEW! JTV Series Economical Relays NEW!													
33A	SPST-NO	12DC	144	—	—	30	PCB Sealed	255-2817-ND	3.77	3.47	3.08	2.62	JTV1AS-PA-12V
	SPST-NO	24DC	576	—	—	30	PCB Sealed	255-2818-ND	3.87	3.56	3.16	2.69	JTV1AS-PA-24V
34A	SPST-NO	12DC	144	—	—	30	Sealed TMP Type	255-2819-ND	4.04	3.72	3.30	2.81	JTV1AS-TMP-12V
JV Series Flat Power Relays													
35	SPST-NO	4.5DC	101	44.4	10	16	$AgSnO_2$, Sealed	255-2360-ND	6.96	6.39	5.68	4.83	JVN1A-4.5V-F
	SPST-NO	6DC	180	33.3	10	16	$AgSnO_2$, Sealed	255-2361-ND	6.96	6.39	5.68	4.83	JVN1A-6V-F
	SPST-NO	12DC	720	16.7	10	16	$AgSnO_2$, Sealed	255-2362-ND	6.96	6.39	5.68	4.83	JVN1A-12V-F
	SPST-NO	24DC	2,880	8.3	10	16	$AgSnO_2$, Sealed	255-2364-ND	7.15	6.57	5.84	4.97	JVN1A-24V-F
JW Series Power Relays													
36A	SPDT	5DC	47	106	10	10	Class E Coil	255-1113-ND	2.43	2.23	1.98	1.69	JW1FSN-DC5V
	SPDT	6DC	68	88	10	10	Class E Coil	255-1731-ND	2.43	2.23	1.98	1.69	JW1FSN-DC6V
	SPDT	9DC	155	58	10	10	Class E Coil	255-1488-ND	2.43	2.23	1.98	1.69	JW1FSN-DC9V
	SPDT	12DC	270	44	10	10	Class E Coil	255-1114-ND	2.43	2.23	1.98	1.69	JW1FSN-DC12V
	SPDT	24DC	1,100	16.8	10	10	Class E Coil	255-1115-ND	2.55	2.34	2.08	1.77	JW1FSN-DC24V
	SPDT	48DC	4,400	11	10	10	Class E Coil	255-1730-ND	2.65	2.43	2.16	1.84	JW1FSN-DC48V
	SPDT	5DC	47	106	10	10	Class B Coil	255-1728-ND	2.52	2.32	2.06	1.76	JW1FSN-B-DC5V
	SPDT	9DC	155	58	10	10	Class B Coil	255-1729-ND	2.52	2.32	2.06	1.76	JW1FSN-B-DC9V
	SPDT	12DC	270	44	10	10	Class B Coil	255-1726-ND	2.52	2.32	2.06	1.76	JW1FSN-B-DC12V
	SPDT	24DC	1,100	22	10	10	Class B Coil	255-1727-ND	2.57	2.37	2.10	1.79	JW1FSN-B-DC24V
36B	DPST-NO	5DC	47	106	5	5	Class E Coil	255-2225-ND	2.62	2.41	2.14	1.82	JW2ASN-DC5V
	DPST-NO	12DC	270	44	5	5	Class E Coil	255-1733-ND	2.67	2.46	2.18	1.86	JW2ASN-DC12V
	DPST-NO	24DC	1,100	22	5	5	Class E Coil	255-1734-ND	2.67	2.46	2.18	1.86	JW2ASN-DC24V
36C	DPDT	5DC	47	106	5	5	Class E Coil	255-1116-ND	2.74	2.52	2.24	1.91	JW2SN-DC5V
	DPDT	6DC	68	88	5	5	Class E Coil	255-1735-ND	2.74	2.52	2.24	1.91	JW2SN-DC6V
	DPDT	9DC	155	58	5	5	Class E Coil	255-1736-ND	2.74	2.52	2.24	1.91	JW2SN-DC9V
	DPDT	12DC	270	44	5	5	Class E Coil	255-1117-ND	2.74	2.52	2.24	1.91	JW2SN-DC12V
	DPDT	24DC	1,100	16.8	5	5	Class E Coil	255-1118-ND	2.92	2.68	2.38	2.03	JW2SN-DC24V
	DPDT	48DC	4,400	11	5	5	Class E Coil	255-1119-ND	2.99	2.75	2.44	2.08	JW2SN-DC48V
	DPDT	5DC	47	106	5	5	Class B Coil	255-2228-ND	2.84	2.61	2.32	1.98	JW2SN-B-DC5V
	DPDT	12DC	270	44	5	5	Class B Coil	255-2226-ND	2.84	2.61	2.32	1.98	JW2SN-B-DC12V
	DPDT	24DC	1,100	16.8	5	5	Class B Coil	255-2227-ND	2.94	2.70	2.40	2.04	JW2SN-B-DC24V
36D	SPST-NO	5DC	47	106	10	10	Class E Coil	255-1725-ND	2.28	2.10	1.86	1.59	JW1AFSN-DC5V
	SPST-NO	12DC	270	44	10	10	Class E Coil	255-1120-ND	2.28	2.10	1.86	1.59	JW1AFSN-DC12V
	SPST-NO	12DC	270	44	10	10	Class E Coil, $AgSnO_2$	255-2821-ND ***NEW!***	2.28	2.10	1.86	1.59	JW1AFSN-DC12V-F
	SPST-NO	24DC	1,100	21.8	10	10	Class E Coil	255-1121-ND	2.35	2.16	1.92	1.64	JW1AFSN-DC24V
	SPST-NO	24DC	1,100	22	10	10	Class E Coil, $AgSnO_2$	255-2823-ND ***NEW!***	2.35	2.16	1.92	1.64	JW1AFSN-DC24V-F
	SPST-NO	12DC	270	44	10	10	Class E Coil	255-2822-ND ***NEW!***	2.28	2.10	1.86	1.59	JW1AFSN-DC12V-TV
	SPST-NO	12DC	270	44	10	10	Class E Coil, $AgSnO_2$	255-2943-ND ***NEW!***	2.08	1.92	1.70	1.45	JW1AFSN-DC12V-TV-F
	SPST-NO	12DC	270	44	10	10	Class B Coil	255-2820-ND ***NEW!***	2.33	2.14	1.90	1.62	JW1AFSN-B-DC12V
PC Board Socket for JW1 Relays								255-1732-ND	2.92	2.68	2.38	2.03	JW1-PS
PC Board Socket for JW2 Relays								255-1821-ND	3.26	3.00	2.66	2.27	JW2-PS
ALA Series Slim Power Relays													
37	DPST	5DC	100	50	3	3	—	255-1273-ND	1.79	1.65	1.46	1.25	ALA2F05
	DPST	12DC	272	44.2	3	3	—	255-1274-ND	1.79	1.65	1.46	1.25	ALA2F12
	DPST	24DC	1,087	22.1	3	3	—	255-1275-ND	1.84	1.69	1.50	1.28	ALA2F24
	DPST	12DC	272	44.2	—	5	—	255-1466-ND	2.06	1.89	1.68	1.43	ALA2PF12
ALD Series Slim Power Relay													
38	SPST-NO	5DC	125	40.0	3	3	—	255-1456-ND	1.74	1.60	1.42	1.21	ALD105
	SPST-NO	12DC	720	16.7	3	3	—	255-1457-ND	1.74	1.60	1.42	1.21	ALD112
	SPST-NO	18DC	1,620	11.1	3	3	—	255-2097-5-ND	1.74	1.60	1.42	1.21	ALD118
	SPST-NO	24DC	2,880	8.3	3	3	—	255-1458-ND	2.03	1.87	1.66	1.42	ALD124
ALE Series Power Relays (Ideal for Heater Loads)													
39A	SPST-NO	5DC	63	80	—	16	Class B Coil	255-1365-ND	1.91	1.76	1.56	1.33	ALE12B05
	SPST-NO	12DC	360	33.3	—	16	Class B Coil	255-1366-ND	1.91	1.76	1.56	1.33	ALE12B12
	SPST-NO	24DC	1,440	16.7	—	16	Class B Coil	255-1367-ND	2.03	1.87	1.66	1.42	ALE12B24
39B	SPST-NO	24DC	1,440	16.7	—	16	4 Pin Type	255-2098-5-ND	2.03	1.87	1.66	1.42	ALE14B24
40	SPST-NO	5DC	125	40	—	16	PC Mount	255-2368-ND	2.33	2.14	1.90	1.62	ALE1PB05
	SPST-NO	6DC	180	33.3	—	16	PC Mount	255-2369-ND	2.33	2.14	1.90	1.62	ALE1PB06
	SPST-NO	9DC	405	22.2	—	16	PC Mount	255-2370-ND	2.33	2.14	1.90	1.62	ALE1PB09
	SPST-NO	12DC	720	16.7	—	16	PC Mount	255-2371-ND	2.33	2.14	1.90	1.62	ALE1PB12
	SPST-NO	24DC	2,880	8.3	—	16	PC Mount	255-2372-ND	2.45	2.25	2.00	1.70	ALE1PB24
	SPST-NO	48DC	11,520	4.2	—	16	PC Mount	255-2373-ND	2.65	2.43	2.16	1.84	ALE1PB48
ALF Relays (Ideal for Solar and UPS Applications)													
41	SPST-NO	12DC	160	75	—	20	PCB Only	255-2099-5-ND	3.33	3.06	2.72	2.32	ALF1P12
	SPST-NO	9DC	58	155.2	—	22	1.5mm Gap - Class F Coil	255-2635-ND ***NEW!***	4.36	4.01	3.56	3.03	ALFG1PF09
	SPST-NO	12DC	103	117	—	22	1.5mm Gap - Class F Coil	255-2589-ND	4.36	4.01	3.56	3.03	ALFG1PF12
	SPST-NO	18DC	203	78.3	—	22	1.5mm Gap - Class F Coil	255-2636-ND ***NEW!***	4.53	4.17	3.70	3.15	ALFG1PF18
	SPST-NO	24DC	410	59	—	22	1.5mm Gap - Class F Coil	255-2590-ND	4.53	4.17	3.70	3.15	ALFG1PF24

† Cut Tape ‡ Tape and Reel

Fig. 35 ***JV Series – PCB***

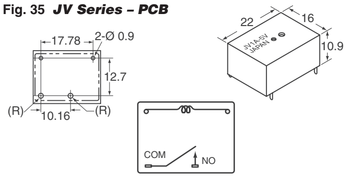

Fig. 36 ***JW Series – PCB***

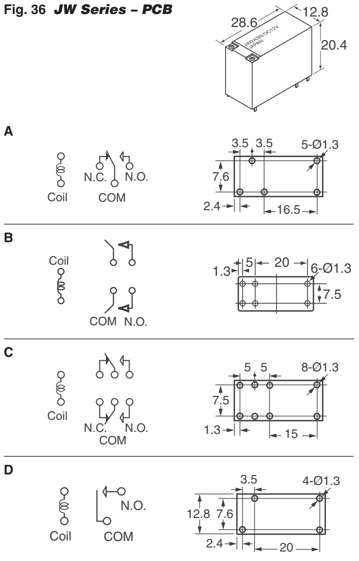

Fig. 37 ***ALA Series – PCB***

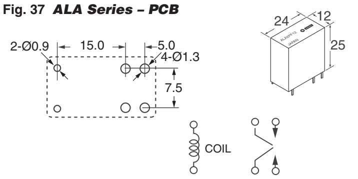

Fig. 38 ***ALD Series – PCB***

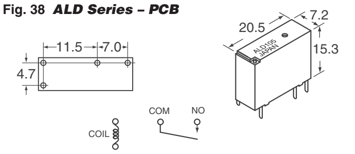

Fig. 39 ***ALE Series***

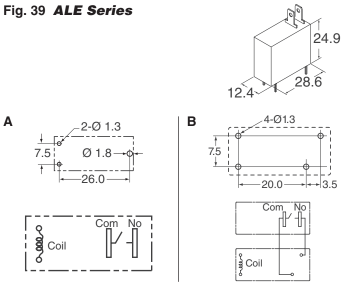

(Continued)

Dim. in mm

Fig. 40 ***ALE Series — PCB and QC***

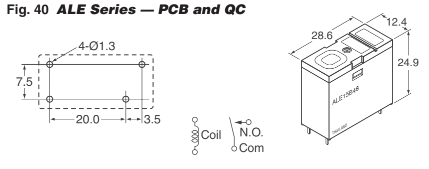

Fig. 41 ***ALF Series – PCB and TMP***

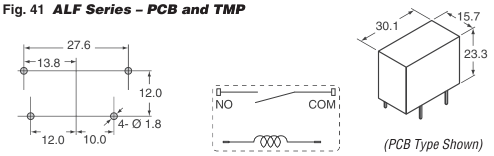

(PCB Type Shown)

Fig. 42 ***LK, LKS, and LKP Series – PCB***

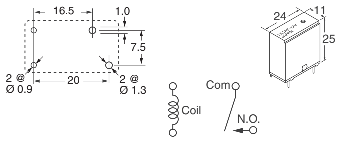

Fig.	Contact Arrange-ment	Coil Voltage	Coil Resis-tance (Ω)	Coil Cur-rent (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
41	SPST-NO	12DC	160	75	—	20	TMP Type	255-2633-ND ***NEW!***	3.33	3.06	2.72	2.32	ALF1T12
	SPST-NO	24DC	640	37.5	—	20	TMP Type	255-2634-ND ***NEW!***	3.60	3.31	2.94	2.50	ALF1T24
	SPST-NO	9DC	58	155.2	—	22	PCB 1.5mm Gap/Class F Coil	255-2637-ND ***NEW!***	6.49	5.97	5.30	4.51	ALFG2PF09
	SPST-NO	12DC	103	116.5	—	22	1.5mm Gap - Class F Coil	255-2638-ND ***NEW!***	6.49	5.97	5.30	4.51	ALFG2PF12
	SPST-NO	18DC	203	78.3	—	22	1.5mm Gap - Class F Coil	255-2639-ND ***NEW!***	6.62	6.08	5.40	4.59	ALFG2PF18
	SPST-NO	24DC	410	58.6	—	22	1.5mm Gap - Class F Coil	255-2640-ND ***NEW!***	6.62	6.08	5.40	4.59	ALFG2PF24
LK Series Slim High Inrush Power Relays													
42	SPST-NO	12DC	272	44.2	5	5	—	255-1266-ND	1.89	1.74	1.54	1.31	LK1AF-12V
	SPST-NO	24DC	1,087	22.1	5	5	—	255-1267-ND	1.98	1.83	1.62	1.38	LK1AF-24V
LKS Series High Sensitivity Power Relays													
42	SPST-NO	5DC	100	50	5	5	—	255-1268-ND	1.62	1.49	1.32	1.13	LKS1AF-5V
	SPST-NO	12DC	576	20.8	5	5	—	255-1269-ND	1.62	1.49	1.32	1.13	LKS1AF-12V
	SPST-NO	24DC	2,304	10.4	5	5	—	255-1270-ND	1.69	1.56	1.38	1.18	LKS1AF-24V
LKP Series Slim Power Relays													
42	SPST	12DC	400	30	10	5	—	255-1271-ND	1.91	1.76	1.56	1.33	LKP1AF-12V
	SPST	24DC	1,600	15	10	5	—	255-1272-ND	1.94	1.78	1.58	1.35	LKP1AF-24V
ALZ Series Power Relays (Ideal for Heater Loads)													
43A	SPDT	5DC	63	80	16	16	Class B Coil	255-2971-ND ***NEW!***	2.30	2.12	1.88	1.60	ALZ11B05
	SPDT	12DC	360	33.3	16	16	Class F Coil	255-2641-ND ***NEW!***	2.45	2.25	2.00	1.70	ALZ11F12
	SPDT	12DC	360	33.3	16	16	Class B Coil	255-2642-ND ***NEW!***	2.30	2.12	1.88	1.60	ALZ12B12
	SPDT	12DC	360	33.3	16	16	Class F Coil	255-1446-ND	2.45	2.25	2.00	1.70	ALZ12F12
	SPDT	24DC	1,440	16.7	16	16	Class B Coil	255-1445-ND	2.45	2.25	2.00	1.70	ALZ12B24
	SPDT	24DC	1,440	16.7	16	16	Class F Coil	255-1447-ND	2.55	2.34	2.08	1.77	ALZ12F24
43B	SPST-NO	24DC	1,440	16.7	16	16	Class F Coil	255-1449-ND	2.30	2.12	1.88	1.60	ALZ21F24
	SPST-NO	24DC	1,440	16.7	16	16	Class F Coil	255-2101-5-ND	2.30	2.12	1.88	1.60	ALZ22F24
	SPST-NO	24DC	1,440	16.7	16	16	Class B Coil	255-2944-ND ***NEW!***	2.87	2.64	2.34	1.99	ALZ51B24
	SPST-NO	24DC	1,440	16.7	16	16	Class F Coil	255-2945-ND ***NEW!***	2.96	2.73	2.42	2.06	ALZ51F24
	SPST-NO	12DC	360	33.3	16	16	Class B Coil	255-2972-ND ***NEW!***	2.72	2.50	2.22	1.89	ALZ51B12
NC Series Power Relays													
44A	DPDT	12DC	400	30	5	5	Vertical Style, Plug-In	255-2824-ND ***NEW!***	12.89	11.84	10.52	8.95	NC2D-DC12V
	DPDT	24DC	1,600	15	5	5	Vertical Style, Plug-In	255-2825-ND ***NEW!***	12.89	11.84	10.52	8.95	NC2D-DC24V
	DPDT	5DC	69.4	72	5	5	Vertical Style, PC Mount	255-1396-ND	12.89	11.84	10.52	8.95	NC2D-P-DC5V
	DPDT	12DC	400	30	5	5	Vertical Style	255-1397-ND	12.89	11.84	10.52	8.95	NC2D-P-DC12V
	DPDT	24DC	1,600	15	5	5	Vertical Style	255-1398-ND	12.89	11.84	10.52	8.95	NC2D-P-DC24V
44B	DPDT	5DC	69.4	72	5	5	Flat Style	255-1399-ND	12.89	11.84	10.52	8.95	NC2D-JP-DC5V
	DPDT	12DC	400	30	5	5	Flat Style	255-1400-ND	12.89	11.84	10.52	8.95	NC2D-JP-DC12V
	DPDT	24DC	1,600	15	5	5	Flat Style	255-1401-ND	12.89	11.84	10.52	8.95	NC2D-JP-DC24V
	DPDT	5DC	69.4	72	5	5	Amber Sealed, Flat Style	255-2231-ND	16.68	15.33	13.62	11.58	NC2EBD-JP-DC5V
	DPDT	12DC	400	30	5	5	Amber Sealed, Flat Style	255-2229-ND	16.68	15.33	13.62	11.58	NC2EBD-JP-DC12V
	DPDT	24DC	1,600	15	5	5	Amber Sealed, Flat Style	255-2230-ND	16.68	15.33	13.62	11.58	NC2EBD-JP-DC24V
44C	DPDT	12DC	400	30	5	5	Amber Sealed, Vertical Style	255-2232-ND	16.68	15.33	13.62	11.58	NC2EBD-P-DC12V
44D	4PDT	24DC	800	30	5	5	Vertical Style, Plug-In	255-2826-ND ***NEW!***	16.42	15.08	13.40	11.39	NC4D-DC24V
	4PDT	5DC	34.7	144	5	5	Vertical Style	255-1998-ND	16.42	15.08	13.40	11.39	NC4D-P-DC5V
	4PDT	12DC	180	60	5	5	Vertical Style	255-1999-ND	16.42	15.08	13.40	11.39	NC4D-P-DC12V
	4PDT	24DC	800	30	5	5	Vertical Style	255-1938-ND	16.42	15.08	13.40	11.39	NC4D-P-DC24V
	4PDT	5DC	34.7	144	5	5	Vertical Style	255-2238-ND	20.19	18.54	16.48	14.01	NC4EBD-P-DC5V
	4PDT	12DC	200	60	5	5	Vertical Style	255-2236-ND	20.19	18.54	16.48	14.01	NC4EBD-P-DC12V
	4PDT	24DC	800	30	5	5	Vertical Style	255-2237-ND	20.19	18.54	16.48	14.01	NC4EBD-P-DC24V
44E	4PDT	5DC	34.7	144	5	5	Flat Style	255-1937-ND	16.42	15.08	13.40	11.39	NC4D-JP-DC5V
	4PDT	12DC	200	60	5	5	Flat Style	255-1935-ND	16.42	15.08	13.40	11.39	NC4D-JP-DC12V
	4PDT	24DC	800	30	5	5	Flat Style	255-1936-ND	16.42	15.08	13.40	11.39	NC4D-JP-DC24V
	4PDT	12DC	200	60	5	5	Amber Sealed, Flat Style	255-2827-ND ***NEW!***	20.19	18.54	16.48	14.01	NC4EBD-JP-DC12V
	4PDT	24DC	800	30	5	5	Amber Sealed, Flat Style	255-2828-ND ***NEW!***	20.19	18.54	16.48	14.01	NC4EBD-JP-DC24V
44F	4PDT	5DC	34.7	144	5	5	Vertical Style	255-2235-ND	20.19	18.54	16.48	14.01	NC4EBD-DC5V
	4PDT	12DC	200	60	5	5	Vertical Style	255-2233-ND	20.19	18.54	16.48	14.01	NC4EBD-DC12V
	4PDT	24DC	800	30	5	5	Vertical Style	255-2234-ND	20.19	18.54	16.48	14.01	NC4EBD-DC24V
PC Mount Socket for Flat NC2D-JP Series								255-1836-ND	2.33	2.14	1.90	1.62	NC2-JPS
PC Mount Socket for Vertical NC2D-P Series								255-1837-ND	2.33	2.14	1.90	1.62	NC2-PS
PC Mount Socket for Flat NC4D-JP Series								255-1997-ND	3.09	2.84	2.52	2.15	NC4-JPS
PC Mount Socket for Vertical NC4D-P Series								255-1996-ND	3.09	2.84	2.52	2.15	NC4-PS
NF Series Flatpack Relays													
45A	DPDT	5DC	90	55	2	2	Gold Over Silver	255-1880-ND	10.22	9.39	8.34	7.09	NF2EB-5V
	DPDT	6DC	137	43.7	2	2	Gold Over Silver	255-1882-ND	10.22	9.39	8.34	7.09	NF2EB-6V
	DPDT	12DC	500	24	2	2	Gold Over Silver	255-2239-ND	10.22	9.39	8.34	7.09	NF2EB-12V
	DPDT	24DC	2,000	12	2	2	Gold Over Silver	255-2240-ND	10.22	9.39	8.34	7.09	NF2EB-24V
	DPDT	48DC	7,000	6.8	2	2	Gold Over Silver	255-2241-ND	12.15	11.16	9.92	8.44	NF2EB-48V

† Cut Tape ‡ Tape and Reel

Fig. 43 ***ALZ Series – PCB***

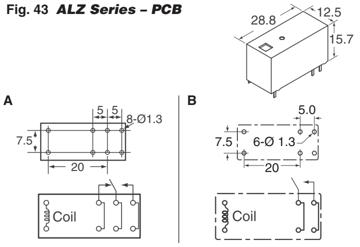

Fig. 44 ***NC Series***

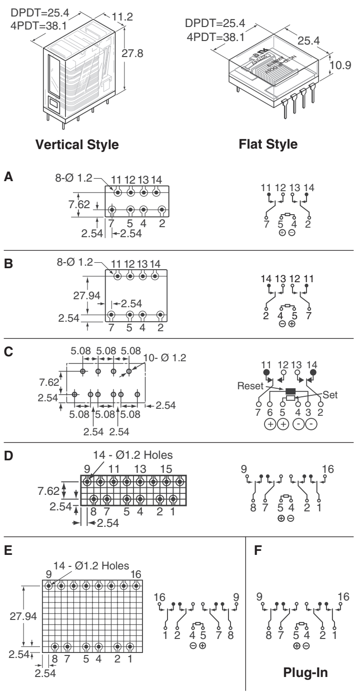

Fig. 45 ***NF Series – PCB***

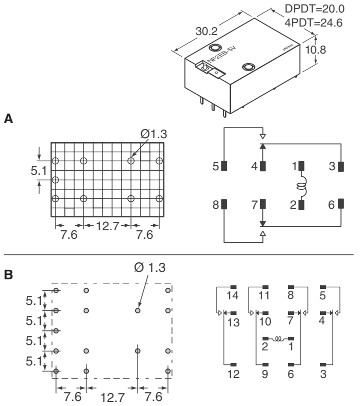

(Continued)

Dim. in mm

Fig. 46 ***PA Series – PCB***

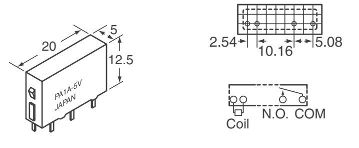

Fig. 47 ***PQ Series – PCB***

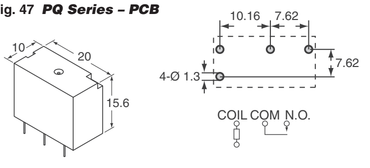

Fig. 48 ***APF Series – PCB NEW!***

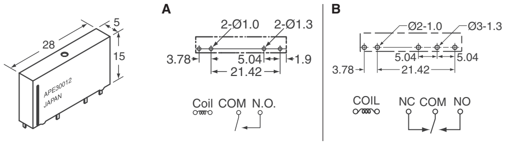

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Panasonic Part No.
45B	4PDT	5DC	53	9.4	2	2	Gold Over Silver	255-2243-ND	12.47	11.46	10.18	8.66	NF4EB-5V
	4PDT	12DC	330	36.3	2	2	Gold Over Silver	255-1883-ND	12.47	11.46	10.18	8.66	NF4EB-12V
	4PDT	24DC	1,200	20	2	2	Gold Over Silver	255-1885-ND	12.47	11.46	10.18	8.66	NF4EB-24V
	4PDT	24DC	1,200	20	2	2	Gold Over Silver	255-1884-ND	17.13	15.73	13.98	11.89	NF4EB-24V-1
	4PDT	24DC	4,200	5.7	2	2	Gold Over Silver	255-2242-ND	14.19	13.03	11.58	9.85	NF4EB-48V
PA Series Slim Power Relays													
46	SPST	5DC	208	24	5	5	—	255-1738-5-ND	8.04	7.38	6.56	5.58	PA1A-5V
	SPST	9DC	675	13.3	5	5	—	255-2050-ND	8.04	7.38	6.56	5.58	PA1A-9V
	SPST	12DC	1,200	10	5	5	—	255-1886-ND	8.04	7.38	6.56	5.58	PA1A-12V
	SPST	24DC	3,200	7.5	5	5	—	255-1737-5-ND	8.04	7.38	6.56	5.58	PA1A-24V
PC Mount Relay Socket for PA1A Relays								255-2049-ND	3.58	3.29	2.92	2.49	PA1A-PS
Self Clinching Relay Socket for PA1A Relays								255-2247-ND	3.58	3.29	2.92	2.49	PA1A-PS-H
PQ Series High Noise Immunity Relays													
47	SPST-NO	5DC	125	40	5	5	Slim Package	255-2250-ND	5.71	5.25	4.66	3.97	PQ1A-5V
	SPST-NO	12DC	720	16.6	5	5	Slim Package	255-2248-ND	5.71	5.25	4.66	3.97	PQ1A-12V
	SPST-NO	24DC	2,880	8.3	5	5	Slim Package	255-2249-ND	5.71	5.25	4.66	3.97	PQ1A-24V
NEW! APF Series Slim Power Relays NEW!													
48A	SPST-NO	4.5DC	119	37.8	6	6	AgNi	255-2904-ND	12.30	11.30	10.04	8.54	APF1024H
	SPST-NO	12DC	847	14.2	6	6	AgNi, Au-plated	255-2905-ND	13.23	12.15	10.80	9.18	APF10312
	SPST-NO	24DC	3,388	7.1	6	6	AgNi	255-2906-ND	12.76	11.73	10.42	8.86	APF10224
	SPST-NO	60DC	20,570	2.9	6	6	AgNi, Au-plated	255-2907-ND	14.63	13.44	11.94	10.15	APF10360
48B	SPDT	4.5DC	119	37.8	6	6	AgNi	255-2908-ND	12.76	11.73	10.42	8.86	APF3024H
	SPDT	6DC	212	28.3	6	6	AgNi	255-2909-ND	12.76	11.73	10.42	8.86	APF30206
	SPDT	9DC	476	18.9	6	6	AgNi	255-2910-ND	12.76	11.73	10.42	8.86	APF30209
	SPDT	12DC	847	14.2	6	6	AgNi	255-2911-ND	12.76	11.73	10.42	8.86	APF30212
	SPDT	24DC	3,388	7.1	6	6	AgNi	255-2912-ND	13.18	12.11	10.76	9.15	APF30224
	SPDT	48DC	10,618	4.5	6	6	AgNi, Au-plated	255-2913-ND	15.61	14.34	12.74	10.83	APF30348
	SPDT	60DC	20,570	2.9	6	6	AgNi	255-2914-ND	14.04	12.90	11.46	9.75	APF30260
S Series 4 Amp Polarized High Density Relays													
49A	4x SPST	5DC	130	38.5	3	4	—	255-1741-ND	17.64	16.20	14.40	12.24	S2EB-5V
	4x SPST	12DC	720	16.7	3	4	—	255-1739-ND	17.64	16.20	14.40	12.24	S2EB-12V
	4x SPST	24DC	2,850	8.4	3	4	—	255-1740-ND	17.64	16.20	14.40	12.24	S2EB-24V
49B	4x SPST	5DC	130	38.5	3	4	—	255-1889-ND	18.60	17.08	15.18	12.91	S3EB-5V
	4x SPST	12DC	720	16.7	3	4	—	255-1887-ND	18.60	17.08	15.18	12.91	S3EB-12V
49C	4x SPST	5DC	130	38.5	3	4	—	255-2252-ND	18.77	17.24	15.32	13.03	S4EB-5V
	4x SPST	12DC	720	16.7	3	4	—	255-2834-ND ***NEW!***	18.77	17.24	15.32	13.03	S4EB-12V
S Series Dual Coil Latching Relays													
49D	2x DPST	5DC	130	38.5	3	4	—	255-2833-ND ***NEW!***	19.11	17.55	15.60	13.26	S2EB-L2-5V
	2x DPST	12DC	720	16.7	3	4	—	255-1489-ND	19.11	17.55	15.60	13.26	S2EB-L2-12V
	2x DPST	24DC	2,850	8.4	3	4	—	255-2251-ND	19.11	17.55	15.60	13.26	S2EB-L2-24V
	2x DPST	5DC	130	38.5	3	4	—	255-2835-ND ***NEW!***	20.09	18.45	16.40	13.94	S4EB-L2-5V
Relay Socket for S Series for DP and 4P Relays								255-1751-ND	3.23	2.97	2.64	2.25	S-PS
SF Series Safety Relays (Force Guided Contacts)													
50A	4PST	12DC	288	41.7	6	6	—	255-1745-ND	39.10	35.91	31.92	27.14	SF2D-DC12V
	4PST	24DC	1,152	20.8	6	6	—	255-1746-ND	39.10	35.91	31.92	27.14	SF2D-DC24V
50B	4PDT	12DC	288	41.7	6	6	—	255-1440-ND	51.16	46.98	41.76	35.50	SF4D-DC12V
	4PDT	24DC	1,152	20.8	6	6	—	255-1441-ND	51.16	46.98	41.76	35.50	SF4D-DC24V
SP Series High Sensitivity Power Relays													
51A	DPDT	5DC	83	60.2	10	15	—	255-2838-ND ***NEW!***	27.86	25.59	22.74	19.33	SP2-DC5V
	DPDT	12DC	480	25	10	15	—	255-1749-ND	27.86	25.59	22.74	19.33	SP2-DC12V
	DPDT	24DC	1,920	12.5	10	15	—	255-2837-ND ***NEW!***	27.86	25.59	22.74	19.33	SP2-DC24V
51B	DPDT	12DC	480	25	10	15	Dual Coil Latching	255-1490-ND	31.14	28.60	25.42	21.61	SP2-L2-DC12V
	DPDT	24DC	1,950	12.5	10	15	Dual Coil Latching	255-2839-ND ***NEW!***	31.14	28.60	25.42	21.61	SP2-L2-DC24V
51C	4PDT	12DC	480	25	10	15	—	255-2840-ND ***NEW!***	37.04	34.02	30.24	25.71	SP4-DC12V
	4PDT	24DC	1,920	12.5	10	15	—	255-2841-ND ***NEW!***	37.04	34.02	30.24	25.71	SP4-DC24V
51D	4PDT	5DC	83	60.2	10	15	Dual Coil Latching	255-2842-ND ***NEW!***	40.43	37.13	33.00	28.05	SP4-L2-DC5V
	4PDT	12DC	480	25	10	10	Dual Coil Latching	255-1491-ND	40.43	37.13	33.00	28.05	SP4-L2-DC12V
Relay Socket for SP Series Screw Terminal								255-1750-ND	12.62	11.59	10.30	8.76	SP2-SF
Mounting Plate for SP Relays								255-2836-ND ***NEW!***	2.57	2.37	2.10	1.79	SP-MA
ST Series IC Drivable Power Relays													
52A	2x SPST	5DC	105	47	8	8	$AgSnO_2$	255-2844-ND ***NEW!***	12.79	11.75	10.44	8.88	ST1-DC5V-F
	2x SPST	12DC	600	20	8	8	—	255-1289-ND	13.03	11.97	10.64	9.05	ST1-DC12V
	2x SPST	12DC	600	20	8	8	$AgSnO_2$	255-2938-ND ***NEW!***	14.09	12.94	11.50	9.78	ST1-DC12V-F
	2x SPST	24DC	2,400	10	8	8	$AgSnO_2$	255-2843-ND ***NEW!***	12.79	11.75	10.44	8.88	ST1-DC24V-F
52B	2x SPST	12DC	640	18.8	8	8	$AgSnO_2$, Dual Coil Latching	255-2939-ND ***NEW!***	16.54	15.19	13.50	11.48	ST1-L2-DC12V-F
	2x SPST	24DC	2,400	10	8	8	$AgSnO_2$, Dual Coil Latching	255-2847-ND ***NEW!***	16.54	15.19	13.50	11.48	ST1-L2-DC24V-F
52C	2x SPST	5DC	105	47	8	8	$AgSnO_2$	255-2848-ND ***NEW!***	12.79	11.75	10.44	8.88	ST2-DC5V-F
	2x SPST	12DC	600	20	8	8	$AgSnO_2$	255-2940-ND ***NEW!***	12.79	11.75	10.44	8.88	ST2-DC12V-F
	2x SPST	24DC	2,400	10	8	8	$AgSnO_2$	255-2941-ND ***NEW!***	12.79	11.75	10.44	8.88	ST2-DC24V-F
52D	2x SPST	5DC	110	45	8	8	$AgSnO_2$, Dual Coil Latching	255-2942-ND ***NEW!***	14.48	13.30	11.82	10.05	ST2-L2-DC5V-F
PCB Mount Relay Socket for ST Series Relays								255-1294-ND	2.89	2.66	2.36	2.01	ST-PS
Solder Terminal Relay Socket for ST Series Relay								255-2253-ND	2.89	2.66	2.36	2.01	ST-SS

† Cut Tape ‡ Tape and Reel

Fig. 49 ***S Series – PCB***

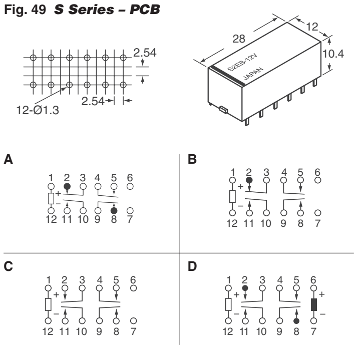

Fig. 50 ***SF Series – PCB***

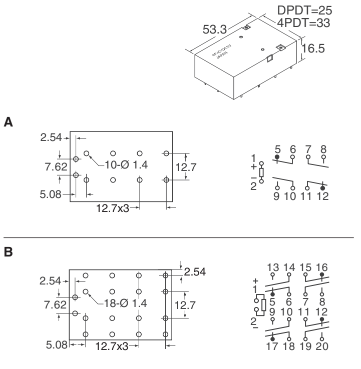

Fig. 51 ***SP Series – PCB***

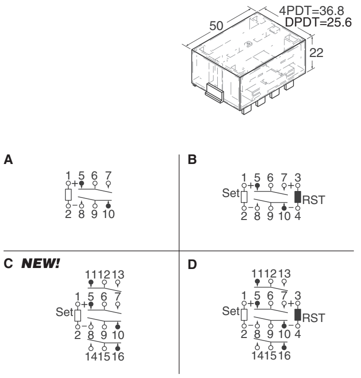

Fig. 52 ***ST Series – PCB***

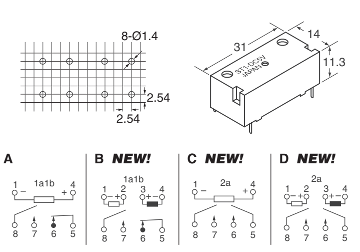

General Purpose PC Mount Relays

All relays are UL, CSA approved

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — JWD Series

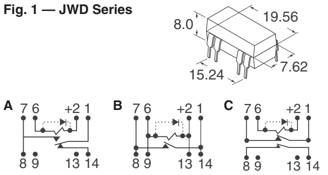

Fig. 2 — T7C Series

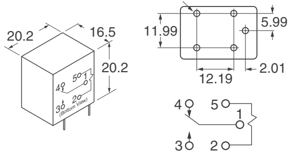

Fig. 3 — T7N Series

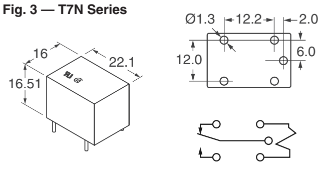

Fig. 4 — SRUDH Series

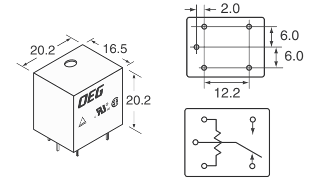

Fig. 5 — ORWH Series

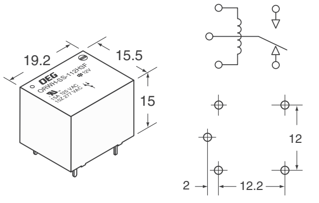

Fig. 6 — T73 / OUDH Series

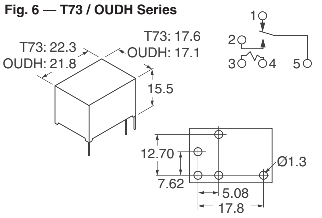

Fig. 7 — T75 Series

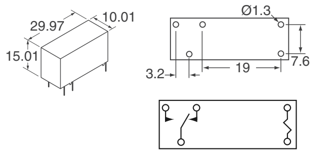

Fig. 8 — T77 Series

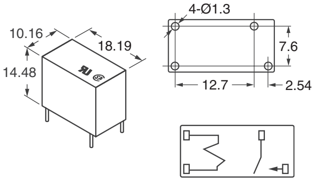

Fig. 9 — T81 Series

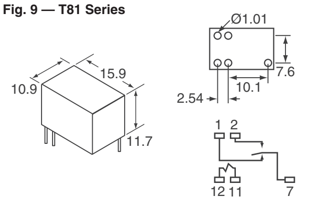

Fig. 10 — OMI/OMIH Series

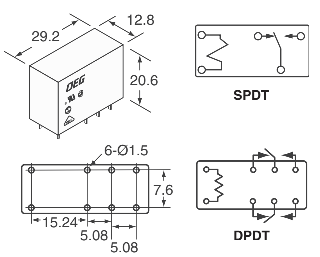

Fig.	Contact Arrange-ment	Coil Voltage (VDC)	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	Tyco Electronics Part No.
						JWD Series Relay							
1A	SPDT	5	25.0	0.5	Without Diode	Potter & Brumfield	PB824-ND	9.00	7.88	7.13	—	—	JWD-172-1
	SPDT	12	24.0	0.5	Without Diode	Potter & Brumfield	PB825-ND	10.08	8.82	7.98	—	—	JWD-172-3
	SPDT	24	10.9	0.5	Without Diode	Potter & Brumfield	PB826-ND	10.54	9.22	8.35	—	—	JWD-172-4
	SPDT	5	25.0	0.5	With Diode	Potter & Brumfield	PB688-ND	9.00	7.88	7.13	—	—	JWD-172-5
	SPDT	12	24.0	0.5	With Diode	Potter & Brumfield	PB827-ND	10.54	9.22	8.35	—	—	JWD-172-7
	SPDT	24	10.9	0.5	With Diode	Potter & Brumfield	PB828-ND	10.08	8.82	7.98	—	—	JWD-172-8
1B	SPST-NO	5	10.0	0.5	Without Diode	Potter & Brumfield	PB692-ND	4.61	4.04	3.65	—	—	JWD-107-1
	SPST-NO	12	10.0	0.5	Without Diode	Potter & Brumfield	PB693-ND	4.61	4.04	3.65	—	—	JWD-107-3
	SPST-NO	24	11.2	0.5	Without Diode	Potter & Brumfield	PB823-ND	7.73	6.77	6.12	—	—	JWD-171-5
	SPST-NO	5	10.0	0.5	With Diode	Potter & Brumfield	PB689-ND	5.52	4.83	4.37	—	—	JWD-107-5
	SPST-NO	12	10.0	0.5	With Diode	Potter & Brumfield	PB690-ND	5.52	4.83	4.37	—	—	JWD-107-7
	SPST-NO	24	11.2	0.5	With Diode	Potter & Brumfield	PB694-ND	5.93	5.19	4.70	—	—	JWD-171-10
	SPST-NC	5	10.0	0.5	With Diode	Potter & Brumfield	PB818-ND	7.20	6.30	5.70	—	—	JWD-171-17
1C	DPST-NO	12	24.0	0.5	Without Diode	Potter & Brumfield	PB819-ND	6.89	6.03	5.46	—	—	JWD-171-23
	DPST-NO	24	10.9	0.5	Without Diode	Potter & Brumfield	PB820-ND	7.73	6.77	6.12	—	—	JWD-171-24
	DPST-NO	5	25.0	0.5	With Diode	Potter & Brumfield	PB691-ND	7.73	6.77	6.12	—	—	JWD-171-25
	DPST-NO	12	24.0	0.5	With Diode	Potter & Brumfield	PB821-ND	7.73	6.77	6.12	—	—	JWD-171-27
	DPST-NO	24	10.9	0.5	With Diode	Potter & Brumfield	PB822-ND	7.73	6.77	6.12	—	—	JWD-171-28
						T7C Series — Economical Relay (Ideal for Appliance and Automotive Applications)							
2	SPDT	5	71.4	12	Sealed Type	Potter & Brumfield	PB335-ND	1.70	1.50	1.35	—	—	T7CS5D-05
	SPDT	6	60.0	12	Sealed Type	Potter & Brumfield	PB336-ND	1.70	1.50	1.35	—	—	T7CS5D-06
	SPDT	12	30.0	12	Sealed Type	Potter & Brumfield	PB337-ND	1.63	1.43	1.30	—	—	T7CS5D-12
	SPDT	24	15.0	12	Sealed Type	Potter & Brumfield	PB338-ND	1.63	1.43	1.30	—	—	T7CS5D-24
	SPDT	5	71.4	12	Flux-Tight	Potter & Brumfield	PB1003-ND	1.68	1.47	1.33	—	—	T7CV5D-05
	SPDT	12	30.0	12	Flux-Tight	Potter & Brumfield	PB441-ND	1.68	1.47	1.33	—	—	T7CV5D-12
	SPDT	24	15.0	12	Flux-Tight	Potter & Brumfield	PB1004-ND	1.68	1.47	1.33	—	—	T7CV5D-24
—	PC Mount Socket for T7C and ORWH Relays						PB1129-ND	1.15	1.01	.92	—	—	27E1064
						T7N Series Power Relay							
3	SPST-NO	12	30.0	10	Low Profile	Potter & Brumfield	PB1005-ND	1.49	1.31	1.18	—	—	T7NS1D1-12
	SPST-NO	24	15.0	10	Low Profile	Potter & Brumfield	PB1006-ND	1.49	1.31	1.18	—	—	T7NS1D1-24
	SPDT	5	71.4	10	Low Profile	Potter & Brumfield	PB379-ND	1.54	1.35	1.22	—	—	T7NS5D1-05
	SPDT	12	30.0	10	Low Profile	Potter & Brumfield	PB380-ND	1.54	1.35	1.22	—	—	T7NS5D1-12
	SPDT	24	15.0	10	Low Profile	Potter & Brumfield	PB381-ND	1.54	1.35	1.22	—	—	T7NS5D1-24
	SPDT	48	7.5	10	Low Profile	Potter & Brumfield	PB382-ND	1.97	1.73	1.56	—	—	T7NS5D1-48
						SRUDH Series Relay							
4	SPDT	12	30.0	12	Sealed Type	OEG	PB1001-ND	1.32	1.16	1.05	—	—	SRUDH-SH-112D1,000
	SPDT	24	15.0	12	Sealed Type	OEG	PB1002-ND	1.34	1.18	1.07	—	—	SRUDH-SH-124D1,000
						ORWH Series Relay (not CSA approved)							
5	SPDT	5	71.4	10	Sealed Type	OEG	PB1134-ND	1.18	1.03	.94	—	—	ORWH-SH-105H3F,000
	SPDT	9	44.4	10	Sealed Type	OEG	PB1135-ND	1.18	1.03	.94	—	—	ORWH-SH-109H3F,000
	SPDT	12	30.0	10	Sealed Type	OEG	PB1128-ND	1.18	1.03	.94	—	—	ORWH-SH-112H3F,000
	SPDT	24	15.0	10	Sealed Type	OEG	PB1127-ND	1.25	1.10	.99	—	—	ORWH-SH-124H3F,000
	SPST-NO	5	71.4	15	Sealed Type	OEG	PB1131-ND	1.06	.93	.84	—	—	ORWH-SH-105HM3F,000
	SPST-NO	12	30.0	15	Sealed Type	OEG	PB1132-ND	1.08	.95	.86	—	—	ORWH-SH-112HM3F,000
	SPST-NO	24	15.0	15	Sealed Type	OEG	PB1133-ND	1.10	.97	.88	—	—	ORWH-SH-124HM3F,000
						T73 Series — Low Profile Relay - Meets 3,500 Volt Surge							
6	SPDT	5	89.0	10	UL Class F	Potter & Brumfield	PB364-ND	2.47	2.17	1.96	—	—	T73S5D15-05
	SPDT	12	37.5	10	UL Class F	Potter & Brumfield	PB365-ND	2.47	2.17	1.96	—	—	T73S5D15-12
	SPDT	24	20.9	10	UL Class F	Potter & Brumfield	PB366-ND	2.47	2.17	1.96	—	—	T73S5D15-24
						OUDH Series Relay							
6	SPDT	12	37.5	10	Flux-Tight	OEG	PB888-ND	1.68	1.47	1.33	—	—	OUDH-SS-112D,000
						T75 Series — Miniature Relay							
7	SPDT	5	42.4	14	Low Profile, Sealed Type	Potter & Brumfield	PB442-ND	3.84	3.36	3.04	—	—	T75S5D112-05
	SPDT	12	18.5	14		Potter & Brumfield	PB443-ND	5.38	4.71	4.26	—	—	T75S5D112-12
	SPDT	24	10.6	14		Potter & Brumfield	PB444-ND	4.61	4.04	3.65	—	—	T75S5D112-24
						T77 Series Power Relay — Sealed and Semi-sealed							
8	SPST-NO	5	90.0	10	Sealed Type	Potter & Brumfield	PB367-ND	1.80	1.58	1.43	—	—	T77S1D10-05
	SPST-NO	12	37.5	10	Sealed Type	Potter & Brumfield	PB368-ND	1.80	1.58	1.43	—	—	T77S1D10-12
	SPST-NO	24	18.75	10	Sealed Type	Potter & Brumfield	PB369-ND	1.80	1.58	1.43	—	—	T77S1D10-24
	SPST-NO	5	40.0	3	Sealed Type	Potter & Brumfield	PB370-ND	1.80	1.58	1.43	—	—	T77S1D3-05
	SPST-NO	12	16.7	3	Sealed Type	Potter & Brumfield	PB371-ND	1.80	1.58	1.43	—	—	T77S1D3-12
	SPST-NO	24	8.3	3	Sealed Type	Potter & Brumfield	PB372-ND	1.80	1.58	1.43	—	—	T77S1D3-24
	SPST-NO	24	18.75	10	Flux-Tight	Potter & Brumfield	PB445-ND	1.78	1.56	1.41	—	—	T77V1D10-24
						T81 Series — High Density Telcom Relay							
9	SPDT	5	40.0	1A	High Sensitivity	Potter & Brumfield	PB446-ND	3.43	3.01	2.72	—	—	T81H5D312-05
	SPDT	12	17.1	1A	High Sensitivity	Potter & Brumfield	PB740-ND	3.98	3.49	3.16	—	—	T81H5D312-12
	SPDT	24	8.6	1A	High Sensitivity	Potter & Brumfield	PB741-ND	3.43	3.01	2.72	—	—	T81H5D312-24
	SPDT	12	37.5	1A	Standard Sensitivity	Potter & Brumfield	PB447-ND	4.20	3.68	3.33	—	—	T81N5D312-12
	SPDT	24	18.75	1A	Standard Sensitivity	Potter & Brumfield	PB448-ND	3.34	2.92	2.65	—	—	T81N5D312-24
						OMI/OMIH Series Relay							
10	SPDT	12	60.0	10	Sealed Type	OEG	PB878-ND	1.63	1.43	1.30	—	—	OMI-SH-112D,394
	SPDT	12	44.4	10	Sealed Type	OEG	PB879-ND	1.90	1.66	1.51	—	—	OMI-SH-112L,394
	SPDT	24	29.3	10	Sealed Type	OEG	PB880-ND	1.87	1.64	1.49	—	—	OMI-SH-124D,300
	SPDT	24	21.8	10	Sealed Type	OEG	PB881-ND	1.92	1.68	1.52	—	—	OMI-SH-124L,394
	DPDT	12	60.0	5	Sealed Type	OEG	PB882-ND	2.42	2.13	1.92	—	—	OMI-SH-212D,594
	DPDT	24	21.8	5	Sealed Type	OEG	PB883-ND	2.45	2.15	1.94	—	—	OMI-SH-224L,594
	SPDT	5	106.4	16	High Current	OEG	PB1038-ND	2.30	2.02	1.83	—	—	OMIH-SH-105L,394
	SPDT	12	44.4	16	High Current	OEG	PB885-ND	2.30	2.02	1.83	—	—	OMIH-SH-112L,394
						PCN Series Relay							
11	SPST-NO	24	5.0	3	Slim Sip	Schrack	PB906-ND	1.97	1.73	1.56	—	—	PCN-124D3MHZ,000
						IM Series — Compact Telecom Relay							
12A	DPDT	3	46.8	2	Through-Hole Standard, Standard Coil	Axicom	PB1092-ND	2.38	2.08	1.89	—	—	IM01TS
	DPDT	4.5	31.0	2		Axicom	PB1093-ND	2.38	2.08	1.89	—	—	IM02TS
	DPDT	5	28.0	2		Axicom	PB1094-ND	2.38	2.08	1.89	—	—	IM03TS

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

I

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 11 — PCN Series

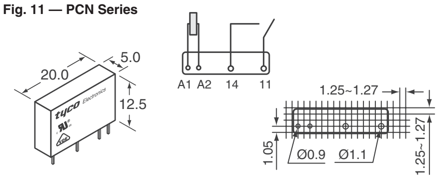

Fig. 12 — IM Series

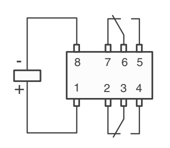

Non-Latching Type Shown

A - Standard

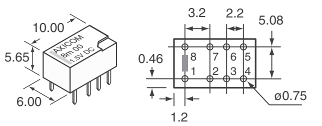

B - J-Lead

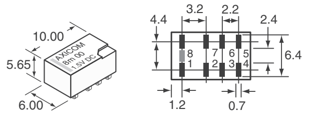

C - Gull Wing

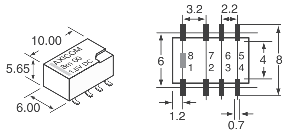

D - Narrow

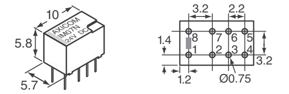

Fig.	Contact Arrange-ment	Coil Voltage (VDC)	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each			Tape and Reel‡		Tyco Electronics Part No.
								1	25	50	Qty.	Pricing	
12A	DPDT	6	23.3	2	Through-Hole Standard, Standard Coil	Axicom	PB1095-ND	2.38	2.08	1.89	—	—	IM04TS
	DPDT	12	11.6	2		Axicom	PB1096-ND	2.57	2.25	2.04	—	—	IM06TS
	DPDT	24	8.3	2		Axicom	PB1097-ND	2.81	2.46	2.23	—	—	IM07TS
	DPDT	3	16.7	2	Through-Hole Standard, Ultra High Sensitive Coil	Axicom	PB1167-ND	3.19	2.80	2.53	—	—	IM21TS
	DPDT	4.5	11.1	2		Axicom	PB1168-ND	3.19	2.80	2.53	—	—	IM22TS
	DPDT	5	10.0	2		Axicom	PB1169-ND	3.19	2.80	2.53	—	—	IM23TS
	DPDT	12	4.16	2		Axicom	PB1170-ND	3.19	2.80	2.53	—	—	IM26TS
	SPST-NO	5	28.1	2	Through-Hole Standard, High Dielectric Version	Axicom	PB1247-ND ***NEW!***	3.07	2.69	2.44	—	—	IMB03CTS
	SPST-NO	12	11.7	2		Axicom	PB1248-ND ***NEW!***	3.07	2.69	2.44	—	—	IMB06CTS
	SPDT	5	28.1	2		Axicom	PB1249-ND ***NEW!***	2.62	2.29	2.08	—	—	IMC03CTS
	SPDT	12	11.7	2		Axicom	PB1250-ND ***NEW!***	2.62	2.29	2.08	—	—	IMC06CTS
12B	DPDT	3	46.8	2	SMT J-Lead	Axicom	PB1098CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM01JR
	DPDT	4.5	31.0	2	SMT J-Lead	Axicom	PB1099CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM02JR
	DPDT	5	28.0	2	SMT J-Lead	Axicom	PB1100CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM03JR
	DPDT	12	11.6	2	SMT J-Lead	Axicom	PB1065CT-ND†	2.57	2.25	2.04	1,000	1338.00	IM06JR
	DPDT	24	8.3	2	SMT J-Lead	Axicom	PB1207CT-ND†	2.81	2.46	2.23	1,000	1462.50	IM07JR
12C	DPDT	3	46.8	2	SMT Gull Wing	Axicom	PB1060CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM01GR
	DPDT	4.5	31.0	2	SMT Gull Wing	Axicom	PB1089CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM02GR
	DPDT	5	28.0	2	SMT Gull Wing	Axicom	PB1061CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM03GR
	DPDT	12	11.6	2	SMT Gull Wing	Axicom	PB1062CT-ND†	2.57	2.25	2.04	1,000	1338.00	IM06GR
	DPDT	24	8.3	2	SMT Gull Wing	Axicom	PB1090CT-ND†	2.81	2.46	2.23	1,000	1463.00	IM07GR
	DPDT	3	46.7	2	SMT Gull Wing, High Dielectric Version	Axicom	PB1177CT-ND†	3.07	2.69	2.44	1,000	1600.00	IM01CGR
	DPDT	4.5	31.1	2		Axicom	PB1178CT-ND†	3.07	2.69	2.44	1,000	1600.00	IM02CGR
	DPDT	5	28.0	2		Axicom	PB1179CT-ND†	3.07	2.69	2.44	1,000	1600.00	IM03CGR
	DPDT	9	15.6	2		Axicom	PB1180CT-ND†	3.07	2.69	2.44	1,000	1600.00	IM05CGR
	DPDT	12	11.6	2		Axicom	PB1181CT-ND†	3.07	2.69	2.44	1,000	1600.00	IM06CGR
	DPDT	24	8.3	2		Axicom	PB1182CT-ND†	3.10	2.71	2.46	1,000	1613.00	IM07CGR
	DPDT	4.5	31.1	2	SMT Gull Wing, High Current Version	Axicom	PB1171CT-ND†	2.62	2.29	2.08	1,000	1363.00	IM02DGR
	DPDT	5	28.0	2		Axicom	PB1172CT-ND†	2.62	2.29	2.08	1,000	1363.00	IM03DGR
	DPDT	9	15.6	2		Axicom	PB1173CT-ND†	2.64	2.31	2.09	1,000	1375.00	IM05DGR
	DPDT	12	11.6	2		Axicom	PB1174CT-ND†	2.62	2.29	2.08	1,000	1363.00	IM06DGR
	DPDT	3	16.7	2	SMT Gull Wing, Ultra High Sensitive Coil	Axicom	PB1163CT-ND†	3.19	2.80	2.53	1,000	1663.00	IM21GR
	DPDT	4.5	11.1	2		Axicom	PB1164CT-ND†	3.36	2.94	2.66	1,000	1750.00	IM22GR
	DPDT	5	10.0	2		Axicom	PB1165CT-ND†	3.12	2.73	2.47	1,000	1625.00	IM23GR
	DPDT	12	4.16	2		Axicom	PB1166CT-ND†	3.34	2.92	2.65	1,000	1738.00	IM26GR
	DPDT	4.5	22.1	2	SMT Gull Wing, Latching	Axicom	PB1063CT-ND†	2.81	2.46	2.23	1,000	1463.00	IM42GR
	DPDT	5	20.0	2	SMT Gull Wing, Latching	Axicom	PB1064CT-ND†	3.19	2.80	2.53	1,000	1663.00	IM43GR
	DPDT	12	8.3	2	SMT Gull Wing, Latching	Axicom	PB1091CT-ND†	3.19	2.80	2.53	1,000	1663.00	IM46GR
	DPDT	4.5	22.2	2	SMT Gull Wing, Latching, High Dielectric Version	Axicom	PB1183CT-ND†	3.22	2.82	2.55	1,000	1675.00	IM42CGR
	DPDT	5	20.0	2		Axicom	PB1184CT-ND†	3.22	2.82	2.55	1,000	1675.00	IM43CGR
	DPDT	2.4	41.7	2	SMT Gull Wing, Latching, High Current Version	Axicom	PB1175CT-ND†	3.22	2.82	2.55	1,000	1675.00	IM48DGR
	DPDT	4.5	22.2	2		Axicom	PB1176CT-ND†	3.19	2.80	2.53	1,000	1663.00	IM42DGR
	SPST-NO	5	28.1	2	SMT Gull Wing, High Dielectric Version	Axicom	PB1247CT-ND† ***NEW!***	3.07	2.69	2.44	1,000	1600.00	IMB03CGR
	SPST-NO	12	11.7	2		Axicom	PB1248CT-ND† ***NEW!***	3.07	2.69	2.44	1,000	1600.00	IMB06CGR
	SPDT	5	28.1	2		Axicom	PB1249CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1362.50	IMC03CGR
	SPDT	12	11.7	2		Axicom	PB1250CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1362.50	IMC06CGR
12D	DPDT	5	28	2	Through-Hole Narrow	Axicom	PB1204-ND	2.38	2.08	1.89	—	—	IM03NS
	DPDT	12	11.6	2	Through-Hole Narrow	Axicom	PB1205-ND	3.19	2.80	2.53	—	—	IM06NS
	DPDT	24	8.3	2	Through-Hole Narrow	Axicom	PB1206-ND	2.81	2.46	2.23	—	—	IM07NS
V23079 / P2 Series — FCC Part 68, High Dielectric Relay													
13	DPDT	12	11.6	2	Through-Hole Latching, Standard Coil	Axicom	PB1085-ND	2.71	2.38	2.15	—	—	V23079B1203B301
	DPDT	24	5.8	2		Axicom	PB1084-ND	2.93	2.57	2.32	—	—	V23079B1205B301
	DPDT	5	28.0	2	Through-Hole, Standard Coil	Axicom	PB288-ND	2.33	2.04	1.85	—	—	V23079A1001B301
	DPDT	12	11.6	2		Axicom	PB289-ND	2.33	2.04	1.85	—	—	V23079A1003B301
	DPDT	24	5.85	2		Axicom	PB290-ND	2.52	2.21	2.00	—	—	V23079A1005B301
	DPDT	5	28.0	2	Through-Hole, Overmolded Coil	Axicom	PB1059-ND	2.30	2.02	1.83	—	—	V23079A2001B301
	DPDT	12	11.6	2		Axicom	PB1058-ND	2.30	2.02	1.83	—	—	V23079A2003B301
	DPDT	5	28.0	2	SMT Long Pins, Standard	Axicom	PB1083CT-ND†	2.54	2.23	2.02	400	530.00	V23079D1001B301
	DPDT	12	11.6	2		Axicom	PB1057CT-ND†	2.54	2.23	2.02	400	530.00	V23079D1003B301
	DPDT	24	5.8	2		Axicom	PB1056CT-ND†	2.78	2.44	2.21	400	580.00	V23079D1005B301
	DPDT	5	14.0	2	SMT Long Pins, Latching, Standard Coil	Axicom	PB1079CT-ND†	2.86	2.50	2.27	400	595.20	V23079F1101B301
	DPDT	5	28.0	2		Axicom	PB1080CT-ND†	3.00	2.63	2.38	400	625.20	V23079E1201B301
	DPDT	5	28.0	2	SMT Long Pins, Overmolded Coil	Axicom	PB1082CT-ND†	2.54	2.23	2.02	400	530.00	V23079D2001B301
	DPDT	12	11.6	2		Axicom	PB1081CT-ND†	2.54	2.23	2.02	400	530.00	V23079D2003B301
	DPDT	12	11.6	2	SMT Short Pins, Overmolded Coil	Axicom	PB1078CT-ND†	2.54	2.23	2.02	500	662.50	V23079G2003B301
V23105 / D2n Series — High Sensitivity Relay													
14	DPDT	5	30.0	1	High Sensitivity	Axicom	PB383-ND	2.14	1.87	1.70	—	—	V23105A5001A201
	DPDT	9	16.6	1	High Sensitivity	Axicom	PB1077-ND	2.16	1.89	1.71	—	—	V23105A5006A201
	DPDT	12	12.5	1	High Sensitivity	Axicom	PB384-ND	2.16	1.89	1.71	—	—	V23105A5003A201
	DPDT	24	6.25	1	High Sensitivity	Axicom	PB385-ND	2.26	1.98	1.79	—	—	V23105A5005A201
	DPDT	5	40.0	1	Medium Sensitivity	Axicom	PB386-ND	2.16	1.89	1.71	—	—	V23105A5301A201
	DPDT	12	16.7	1	Medium Sensitivity	Axicom	PB387-ND	2.14	1.87	1.70	—	—	V23105A5303A201
	DPDT	24	8.33	1	Medium Sensitivity	Axicom	PB388-ND	2.21	1.94	1.75	—	—	V23105A5305A201
	DPDT	48	4.16	1	Medium Sensitivity	Axicom	PB389-ND	2.88	2.52	2.28	—	—	V23105A5307A201
	DPDT	5	80.0	1	Medium-Low Sensitivity	Axicom	PB1076-ND	2.04	1.79	1.62	—	—	V23105A5401A201
	DPDT	12	33.3	1		Axicom	PB1055-ND	2.06	1.81	1.64	—	—	V23105A5403A201
	DPDT	24	16.6	1		Axicom	PB1054-ND	2.11	1.85	1.68	—	—	V23105A5405A201
	DPDT	48	8.3	1		Axicom	PB1075-ND	2.83	2.48	2.25	—	—	V23105A5407A201
	DPDT	5	110.0	1	Low Sensitivity	Axicom	PB1074-ND	2.04	1.79	1.62	—	—	V23105A5501A201
	DPDT	12	46.0	1	Low Sensitivity	Axicom	PB1073-ND	2.04	1.79	1.62	—	—	V23105A5503A201
	DPDT	24	22.8	1	Low Sensitivity	Axicom	PB1072-ND	2.09	1.83	1.66	—	—	V23105A5505A201
V23026 /P1 Series — Miniature Relay (Up to 1 Billion Operations!)													
15A	SPDT	5	13.5	1	Through-Hole Terminal	Axicom	PB282-ND	4.63	4.06	3.67	—	—	V23026A1001B201
	SPDT	12	5.3	1	Through-Hole Terminal	Axicom	PB283-ND	4.63	4.06	3.67	—	—	V23026A1002B201
	SPDT	24	5.3	1	Through-Hole Terminal	Axicom	PB284-ND	4.78	4.18	3.79	—	—	V23026A1004B201
15B	SPDT	5	16.0	1	SMT Terminal	Axicom	PB285CT-ND†	4.90	4.29	3.88	480	1224.00	V23026D1021B201
	SPDT	12	6.6	1	SMT Terminal	Axicom	PB286CT-ND†	4.90	4.29	3.88	480	1224.00	V23026D1022B201
	SPDT	24	5.3	1	SMT Terminal	Axicom	PB287CT-ND†	5.26	4.60	4.17	480	1314.24	V23026D1024B201

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 13 — V23079 Series

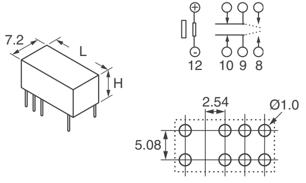

Type	Dimensions - mm	
	L	H
Through-Hole Standard Coil	14.5	9.8
Through-Hole Overmolded Coil	14.6	9.5
SMT Long Pin, Standard Coil	14.5	10.4
SMT Long Pin, Overmolded Coil	14.6	9.9
SMT Short Pin, Overmolded Coil	14.6	9.9

Fig. 14 — V23105 Series

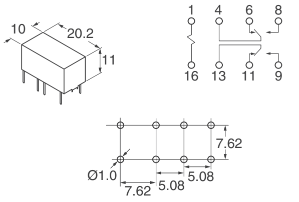

Fig. 15 — V23026 Series

A - Through-Hole

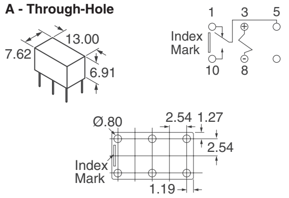

B - Surface Mount

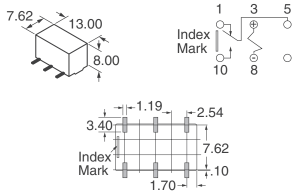

Miniature PCB, Telecom, Signal and RF Relays

**** All relays are UL, CSA approved***
Mounting hole connection diagrams are all bottom view unless noted otherwise

Dimensions in mm

Fig. 1 — TSC Series

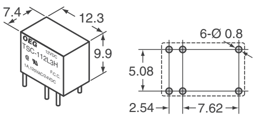

Fig. 2 — HF3 Series

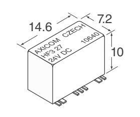

Fig. 3 — HF6 Series *NEW!*

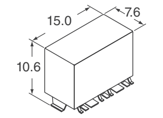

Fig. 4 — V23092 Series

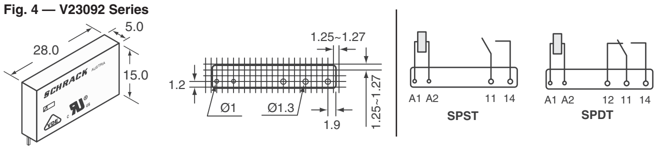

Fig. 5 — MSR Series - SPST-NO

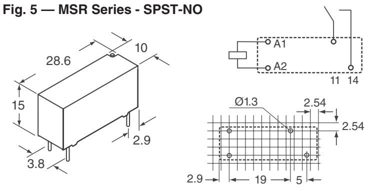

Fig. 6 — MSR Series - SPDT

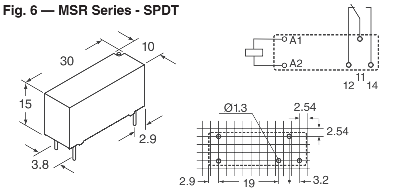

Fig. 7 — PE Series

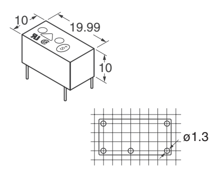

Fig. 8 — RE Series

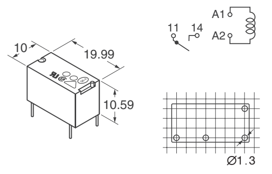

Fig. 9 — PB Series

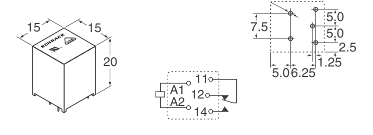

Fig. 10 — OJE Series

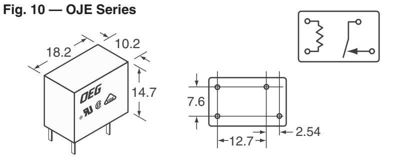

Fig. 11 — FP2 Series

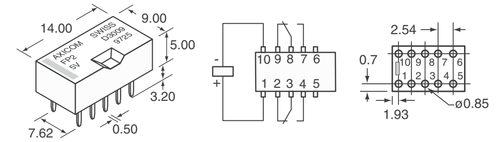

Fig. 12 — FX Series

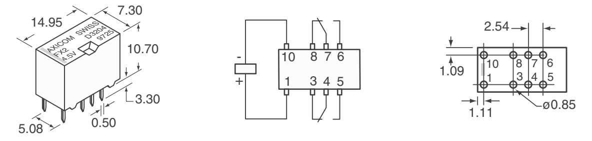

Fig. 13 — MT2 Series

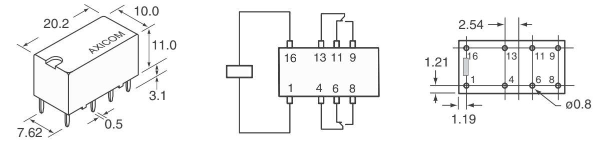

Fig.	Contact Arrangement	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
						TSC Series — Miniature Relay						
1	SPDT	5 VDC	30.1	1	Standard Coil	OEG	PB1016-ND	1.68	1.47	1.33	1.05	TSC-105D3H,000
	SPDT	12 VDC	12.5	1	Standard Coil	OEG	PB1018-ND	1.70	1.50	1.35	1.07	TSC-112D3H,000
	SPDT	5 VDC	30.1	1	Sensitive Coil	OEG	PB1017-ND	1.68	1.47	1.33	1.05	TSC-105L3H,000
	SPDT	12 VDC	12.5	1	Sensitive Coil Input	OEG	PB647-ND	1.87	1.64	1.49	1.17	TSC-112L3H,000
	SPDT	24 VDC	6.3	1	Sensitive Coil Input	OEG	PB648-ND	1.90	1.66	1.51	1.19	TSC-124L3H,000
						HF3 Series — High Frequency Relay						
2	SPDT	3 VDC	46.8	2	50Ω Version	Axicom	PB1102CT-ND†	4.32	3.78	3.42	2.70	HF351
	SPDT	3 VDC	46.8	2	50Ω Version	Axicom	PB1102TR-ND‡		900.00/400			HF351
	SPDT	24 VDC	5.8	2	50Ω Version	Axicom	PB1101CT-ND†	4.70	4.12	3.73	2.94	HF357
	SPDT	24 VDC	5.8	2	50Ω Version	Axicom	PB1101TR-ND‡		980.00/400			HF357
	SPDT	3 VDC	46.8	2	75Ω Version	Axicom	PB1104CT-ND†	4.42	3.87	3.50	2.76	HF301
	SPDT	3 VDC	46.8	2	75Ω Version	Axicom	PB1104TR-ND‡		920.00/400			HF301
	SPDT	5 VDC	28	2	75Ω Version	Axicom	PB1103CT-ND†	4.42	3.87	3.50	2.76	HF303
	SPDT	5 VDC	28	2	75Ω Version	Axicom	PB1103TR-ND‡		920.00/400			HF303
	SPDT	12 VDC	11.6	2	75Ω Version	Axicom	PB1105CT-ND†	4.49	3.93	3.56	2.81	HF306
	SPDT	12 VDC	11.6	2	75Ω Version	Axicom	PB1105TR-ND‡		935.20/400			HF306
						NEW! HF6 Series — High Frequency Relay NEW!						
3	SPDT	5 VDC	28.1	2	50Ω Version	Axicom	PB1251CT-ND†	25.99	22.75	20.58	16.25	HF653
	SPDT	5 VDC	28.1	2	50Ω Version	Axicom	PB1251TR-ND‡		3384.38/250			HF653
	SPDT	12 VDC	11.7	2	50Ω Version	Axicom	PB1252CT-ND†	25.99	22.75	20.58	16.25	HF656
	SPDT	12 VDC	11.7	2	50Ω Version	Axicom	PB1252TR-ND‡		3384.38/250			HF656
	SPDT	5 VDC	28.1	2	50Ω Version	Axicom	PB1253CT-ND†	28.58	25.02	22.63	17.87	HF693
	SPDT	5 VDC	28.1	2	50Ω Version	Axicom	PB1253TR-ND‡		3721.88/250			HF693
	SPDT	12 VDC	11.7	2	50Ω Version	Axicom	PB1254CT-ND†	28.58	25.02	22.63	17.87	HF696
	SPDT	12 VDC	11.7	2	50Ω Version	Axicom	PB1254TR-ND‡		3721.88/250			HF696
						V23092 Series — Slim PCB Relay SNR						
4	SPDT	12 VDC	14.1	6	Slim Style	Schrack	PB1019-ND	11.88	10.40	9.41	7.43	V23092-A1012-A301
	SPST-NO	24 VDC	6.1	6	Slim Style	Schrack	PB1020-ND	12.48	10.92	9.88	7.80	V23092-A1024-A302
						MSR Series — European Miniature Power PCB Relay						
5	SPST-NO	12 VDC	18.4	8	Wash Tight	Schrack	PB1208-ND	3.86	3.39	3.06	2.42	V23061A1005A302
	SPST-NO	12 VDC	18.4	8	Wash Tight	Schrack	PB1209-ND	4.42	3.87	3.50	2.76	V23061A1005A502
	SPST-NO	12 VDC	18.4	8	Wash Tight	Schrack	PB1220-ND	3.60	3.15	2.85	2.25	V23061A1005A402
	SPST-NO	24 VDC	10.6	8	Wash Tight	Schrack	PB1221-ND	5.47	4.79	4.34	3.42	V23061A1007A302
	SPST-NO	24 VDC	10.6	8	Wash Tight	Schrack	PB1222-ND	5.47	4.79	4.34	3.42	V23061A1007A402
	SPST-NO	24 VDC	10.6	8	Wash Tight	Schrack	PB1223-ND	5.69	4.98	4.51	3.56	V23061A1007A502
6	SPDT	12 VDC	18.4	8	Wash Tight	Schrack	PB1210-ND	3.70	3.24	2.93	2.31	V23061B1005A301
	SPDT	12 VDC	18.4	8	Wash Tight	Schrack	PB1224-ND	4.82	4.23	3.82	3.02	V23061B1005A401
	SPDT	12 VDC	18.4	8	Wash Tight	Schrack	PB1211-ND	4.15	3.64	3.29	2.60	V23061B1005A501
	SPDT	24 VDC	10.6	8	Wash Tight	Schrack	PB1212-ND	5.14	4.50	4.07	3.21	V23061B1007A301
	SPDT	24 VDC	10.6	8	Wash Tight	Schrack	PB1225-ND	5.86	5.13	4.64	3.66	V23061B1007A401
	SPDT	24 VDC	10.6	8	Wash Tight	Schrack	PB1226-ND	5.95	5.21	4.72	3.72	V23061B1007A501
						PE Series — Miniature Power Relay						
7	SPDT	5 VDC	40	5	Flux Proof	Schrack	PB353-ND	4.58	4.02	3.63	2.87	PE014005
	SPDT	6 VDC	34.8	5	Flux Proof	Schrack	PB907-ND	4.58	4.02	3.63	2.87	PE014006
	SPDT	12 VDC	16.7	5	Flux Proof	Schrack	PB354-ND	4.58	4.02	3.63	2.87	PE014012
	SPDT	24 VDC	8.3	5	Flux Proof	Schrack	PB355-ND	4.58	4.02	3.63	2.87	PE014024
	SPDT	48 VDC	4.4	5	Flux Proof	Schrack	PB1229-ND	6.60	5.78	5.23	4.13	PE014048
						RE Series — Lower Profile Power Relay						
8	SPST-NO	5 VDC	40	6	AgCdO	Schrack	PB356-ND	4.37	3.83	3.46	2.73	RE030005
	SPST-NO	12 VDC	16.7	6	AgCdO	Schrack	PB357-ND	4.37	3.83	3.46	2.73	RE030012
	SPST-NO	24 VDC	8.3	6	AgCdO	Schrack	PB358-ND	4.37	3.83	3.46	2.73	RE030024
	SPST-NO	48 VDC	4.1	6	AgCdO	Schrack	PB743-ND	5.98	5.23	4.74	3.74	RE030048
	SPST-NO	5 VDC	40	6	Gold Over Nickel	Schrack	PB744-ND	5.78	5.07	4.58	3.62	RE032005

† Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Contact Arrangement	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
8	SPST-NO	6 VDC	33	6	Gold Over Nickel	Schrack	PB745-ND	6.43	5.63	5.10	4.02	RE032006
	SPST-NO	12 VDC	16.7	6	Gold Over Nickel	Schrack	PB746-ND	7.03	6.16	5.57	4.40	RE032012
	SPST-NO	24 VDC	8.3	6	Gold Over Nickel	Schrack	PB747-ND	7.10	6.22	5.63	4.44	RE032024
	SPST-NO	48 VDC	4.1	6	Gold Over Nickel	Schrack	PB748-ND	7.25	6.35	5.74	4.53	RE032048
					PB Series — Cube Power Relay							
9	SPST	5 VDC	71.4	10	Ag90Ni10	Schrack	PB766-ND	1.18	1.03	.94	.74	PB134005
	SPST	6 VDC	60	10	Ag90Ni10	Schrack	PB767-ND	1.18	1.03	.94	.74	PB134006
	SPST	12 VDC	30	10	Ag90Ni10	Schrack	PB768-ND	1.25	1.10	.99	.78	PB134012
	SPST	24 VDC	15	10	Ag90Ni10	Schrack	PB769-ND	1.37	1.20	1.09	.86	PB134024
	SPDT	6 VDC	60	10	Ag90Ni10	Schrack	PB1228-ND	1.18	1.03	.94	.74	PB114006
	SPDT	12 VDC	30	10	Ag90Ni10	Schrack	PB889-ND	1.25	1.10	.99	.78	PB114012
	SPDT	24 VDC	15	10	Ag90Ni10	Schrack	PB765-ND	1.37	1.20	1.09	.86	PB114024
					OJE Series Relay							
10	SPST-NO	5 VDC	40	5	Sealed Case	OEG	PB874-ND	1.25	1.10	.99	.78	OJE-SH-105DM,000
	SPST-NO	12 VDC	16.7	5	Sealed Case	OEG	PB875-ND	1.30	1.14	1.03	.81	OJE-SH-112DM,000
	SPST-NO	12 VDC	16.7	10	High Current Sealed	OEG	PB876-ND	1.18	1.03	.94	.74	OJE-SH-112HM,000
					FP2 Series Relay							
11	DPDT	5 VDC	28	2	Standard Sensitivity	Axicom	PB1119-ND	2.30	2.02	1.83	1.44	D3009
	DPDT	12 VDC	11.6	2	Standard Sensitivity	Axicom	PB1067-ND	2.30	2.02	1.83	1.44	D3002
	DPDT	24 VDC	8.3	2	Standard Sensitivity	Axicom	PB1120-ND	2.52	2.21	2.00	1.58	D3012
	DPDT	5 VDC	15.9	2	High Sensitivity	Axicom	PB1066-ND	3.10	2.71	2.46	1.94	D3023
	DPDT	12 VDC	6.6	2	High Sensitivity	Axicom	PB1118-ND	3.10	2.71	2.46	1.94	D3026
	DPDT	5 VDC	20	2	1 Coil, Latching	Axicom	PB1116-ND	2.59	2.27	2.06	1.62	D3043
	DPDT	12 VDC	8.3	2	1 Coil, Latching	Axicom	PB1117-ND	2.59	2.27	2.06	1.62	D3046
	DPDT	5 VDC	40	2	2 Coils, Latching	Axicom	PB1114-ND	2.71	2.38	2.15	1.70	D3063
	DPDT	12 VDC	16.6	2	2 Coils, Latching	Axicom	PB1115-ND	2.71	2.38	2.15	1.70	D3066
					FX Series Relay							
12	DPDT	4.5 VDC	31	2	Standard Coil	Axicom	PB1110-ND	2.30	2.02	1.83	1.44	D3204
	DPDT	5 VDC	28	2	Standard Coil	Axicom	PB1111-ND	2.30	2.02	1.83	1.44	D3209
	DPDT	12 VDC	11.6	2	Standard Coil	Axicom	PB1112-ND	2.30	2.02	1.83	1.44	D3202
	DPDT	24 VDC	8.3	2	Standard Coil	Axicom	PB1113-ND	2.52	2.21	2.00	1.58	D3212
	DPDT	4.5 VDC	12.7	2	High Sensitivity	Axicom	PB1106-ND	3.10	2.71	2.46	1.94	D3222
	DPDT	5 VDC	15.9	2	High Sensitivity	Axicom	PB1107-ND	3.10	2.71	2.46	1.94	D3223
	DPDT	12 VDC	6.6	2	High Sensitivity	Axicom	PB1108-ND	3.10	2.71	2.46	1.94	D3226
	DPDT	24 VDC	5.8	2	High Sensitivity	Axicom	PB1109-ND	3.34	2.92	2.65	2.09	D3227
					MT2 Series Relay							
13	DPDT	5 VDC	29.7	2	High Sensitivity	Axicom	PB1124-ND	2.21	1.94	1.75	1.38	C93401
	DPDT	12 VDC	12.3	2	High Sensitivity	Axicom	PB1125-ND	2.23	1.96	1.77	1.40	C93402
	DPDT	24 VDC	6.1	2	High Sensitivity	Axicom	PB1126-ND	2.33	2.04	1.85	1.46	C93403
	DPDT	5 VDC	40	2	Standard Sensitivity	Axicom	PB1121-ND	2.23	1.96	1.77	1.40	C93416
	DPDT	12 VDC	16.6	2	Standard Sensitivity	Axicom	PB1122-ND	2.21	1.94	1.75	1.38	C93418
	DPDT	24 VDC	8.3	2	Standard Sensitivity	Axicom	PB1123-ND	2.28	2.00	1.81	1.43	C93419

† Cut Tape ‡ Tape and Reel

PC Mount Relays

RoHS COMPLIANT

**** All relays are UL, CSA approved***

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — RT Series (RY Series)

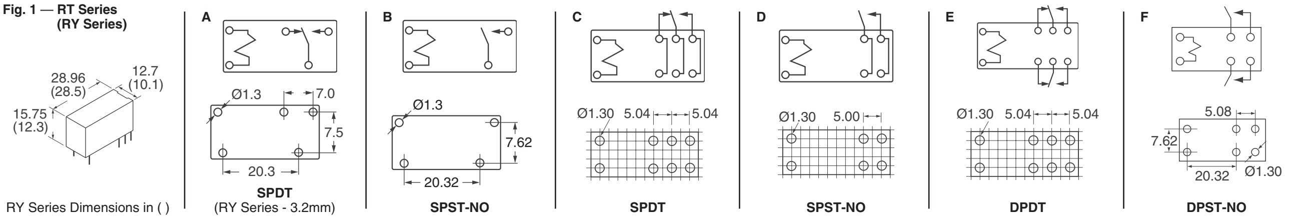

RY Series Dimensions in ( )

A: SPDT (RY Series - 3.2mm)

B: SPST-NO

C: SPDT

D: SPST-NO

E: DPDT

F: DPST-NO

Fig.	Contact Arrangement	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
					RT Series — Low Profile Power PCB Relay						
1A	SPDT	5 VDC	80.6	12	Sealed Black Case	Potter & Brumfield	PB359-ND	2.16	1.89	1.71	RTB14005F
	SPDT	12 VDC	33.3	12	Sealed Black Case	Potter & Brumfield	PB449-ND§	3.43	3.01	2.72	RT114012F
	SPDT	12 VDC	33.3	12	Sealed Black Case	Potter & Brumfield	PB360-ND	1.73	1.52	1.37	RTB14012F
	SPDT	24 VDC	16.7	12	Sealed Black Case	Potter & Brumfield	PB361-ND	1.73	1.52	1.37	RTB14024F
	SPDT	24 VDC	16.7	12	Sealed Black Case	Potter & Brumfield	PB956-ND§	3.43	3.01	2.72	RT114024F
	SPDT	12 VDC	33.3	12	Sealed Orange Case	Schrack	PB974-ND	1.99	1.75	1.58	RTB14012
	SPDT	24 VDC	16.7	12	Sealed Orange Case	Schrack	PB975-ND	1.99	1.75	1.58	RTB14024
	SPDT	24 VDC	16.7	12	Sealed Orange Case	Schrack	PB955-ND§	1.99	1.75	1.58	RT114024
	SPDT	24 VAC	—	12	Sealed Orange Case	Schrack	PB1235-ND	3.67	3.22	2.91	RT114524
	SPDT	24 VAC	—	12	Sealed Orange Case	Schrack	PB976-ND	5.09	4.46	4.03	RTB14524
	SPDT	115 VAC	—	12	Sealed Orange Case	Schrack	PB977-ND	5.40	4.73	4.28	RTB14615
	SPDT	230 VAC	—	12	Sealed Orange Case	Schrack	PB978-ND	7.25	6.35	5.74	RTB14730
1B	SPST-NO	12 VDC	33.3	12	Sealed Black Case	Potter & Brumfield	PB362-ND	3.43	3.01	2.72	RTB34012F
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1137-ND	12.94	11.32	10.25	RTS3T012
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1139-ND	16.32	14.28	12.92	RTS3TA12
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1140-ND	20.18	17.67	15.98	RTT3TA12
	SPST-NO	24 VDC	16.7	16	Sealed Orange Case	Schrack	PB1138-ND	13.92	12.18	11.02	RTS3T024
	SPST-NO	24 VDC	16.7	12	Sealed Black Case	Potter & Brumfield	PB363-ND	3.19	2.80	2.53	RTB34024F
	SPST-NO	24 VDC	16.7	16	Sealed Black Case	Potter & Brumfield	PB966-ND§	3.05	2.67	2.42	RT334024F
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB984-ND	2.06	1.81	1.64	RTD34012
1C	SPDT	5 VDC	80.6	16	Sealed Black Case	Potter & Brumfield	PB291-ND	2.11	1.85	1.68	RTD14005F
	SPDT	12 VDC	33.3	16	Sealed Black Case	Potter & Brumfield	PB292-ND	3.02	2.65	2.40	RTD14012F
	SPDT	12 VDC	33.3	16	Sealed Black Case	Potter & Brumfield	PB958-ND§	3.05	2.67	2.42	RT314012F
	SPDT	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1141-ND	2.30	2.02	1.83	RTH14012
	SPDT	24 VDC	16.7	16	Sealed Black Case	Potter & Brumfield	PB668-ND	3.02	2.65	2.40	RTD14024F
	SPDT	24 VDC	16.7	16	Sealed Black Case	Potter & Brumfield	PB960-ND§	2.11	1.85	1.68	RT314024F
	SPDT	5 VDC	80.6	16	Sealed Orange Case	Schrack	PB979-ND	2.11	1.85	1.68	RTD14005
	SPDT	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB980-ND	2.11	1.85	1.68	RTD14012
	SPDT	24 VDC	16.7	16	Sealed Orange Case	Schrack	PB959-ND§	2.11	1.85	1.68	RT314024
	SPDT	24 VDC	16.7	16	RT Relay Package†	Schrack	PB1255-ND ***NEW!***	7.68	6.72	6.08	RT3S4LC4
	SPDT	24 VAC	—	16	Sealed Orange Case	Schrack	PB1238-ND	1.94	1.71	1.54	RT314524

§ Flux-Tight Version † Package consists of RT Relay, DIN-rail socket, plastic retaining clip, module and marking tag.

Fig. 2 — RZ Series *NEW!*

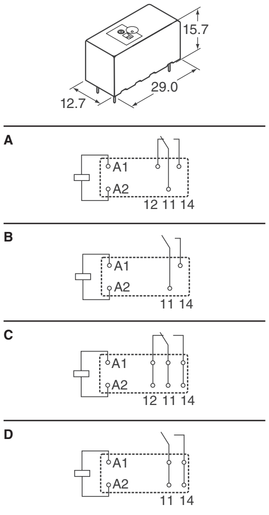

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PC Mount Relays *(Cont.)*

Dimensions in mm

Fig.	Contact Arrangement	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
1C	SPDT	24 VAC	31.6	16	RT Relay Package†	Schrack	PB1256-ND ***NEW!***	10.97	9.60	8.69	RT3S4R24
	SPDT	115 VAC	—	16	Sealed Orange Case	Schrack	PB961-ND§	2.66	2.34	2.11	RT314615
	SPDT	115 VAC	6.6	16	RT Relay Package†	Schrack	PB1257-ND ***NEW!***	8.16	7.14	6.46	RT3S4S15
	SPDT	230 VAC	—	16	Sealed Orange Case	Schrack	PB962-ND§	4.44	3.89	3.52	RT314730
	SPDT	230 VAC	3.2	16	RT Relay Package†	Schrack	PB1258-ND ***NEW!***	13.08	11.45	10.36	RT3S4T30
	SPDT	12 VDC	50	16	2 Coil, Latching	Schrack	PB963-ND§	3.79	3.32	3.01	RT314F12
	SPDT	24 VDC	27	16	2 Coil, Latching	Schrack	PB1086-ND§	3.79	3.32	3.01	RT314F24
	SPDT	24 VDC	16.7	8	2 Coil, Latching	Schrack	PB973-ND§	2.86	2.50	2.27	RT424F24
	SPDT	12 VDC	33.3	16	1 Coil, Latching	Schrack	PB1088-ND§	3.48	3.05	2.76	RT314A12
	SPDT	24 VDC	16.7	16	1 Coil, Latching	Schrack	PB1087-ND§	3.65	3.20	2.89	RT314A24
1D	SPDT	24 VDC	16.7	16	Sealed Orange Case	Schrack	PB981-ND	2.11	1.85	1.68	RTD14024
	SPDT	48 VDC	8.7	16	Sealed Orange Case	Schrack	PB982-ND	3.91	3.43	3.10	RTD14048
	SPDT	115 VAC	—	16	Sealed Orange Case	Schrack	PB983-ND	5.40	4.73	4.28	RTD14615
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB964-ND§	2.06	1.81	1.64	RT334012
	SPST-NO	24 VDC	16.7	16	Sealed Orange Case	Schrack	PB965-ND§	2.06	1.81	1.64	RT334024
	SPST-NO	12 VDC	33.3	16	Sealed Black Case	Potter & Brumfield	PB293-ND	3.43	3.01	2.72	RTD34012F
	SPST-NO	24 VDC	16.7	16	Sealed Black Case	Potter & Brumfield	PB294-ND	3.43	3.01	2.72	RTD34024F
1E	DPDT	5 VDC	80.6	8	Sealed Black Case	Potter & Brumfield	PB295-ND	2.14	1.87	1.70	RTE24005F
	DPDT	6 VDC	66.7	8	Sealed Black Case	Potter & Brumfield	PB987-ND	1.85	1.62	1.47	RTE24006F
	DPDT	12 VDC	33.3	8	Sealed Black Case	Potter & Brumfield	PB296-ND	3.05	2.67	2.42	RTE24012F
	DPDT	12 VDC	33.3	8	Sealed Black Case	Potter & Brumfield	PB968-ND§	1.90	1.66	1.51	RT424012F
	DPDT	24 VDC	16.7	8	Sealed Black Case	Potter & Brumfield	PB297-ND	2.45	2.15	1.94	RTE24024F
	DPDT	5 VDC	80.6	8	Sealed Orange Case	Schrack	PB985-ND	2.11	1.85	1.68	RTE24005
	DPDT	12 VDC	33.3	8	Sealed Orange Case	Schrack	PB988-ND	2.11	1.85	1.68	RTE24012
	DPDT	12 VDC	33.3	8	Sealed Orange Case	Schrack	PB967-ND§	2.11	1.85	1.68	RT424012
	DPDT	24 VDC	16.7	8	Sealed Orange Case	Schrack	PB989-ND	2.11	1.85	1.68	RTE24024
	DPDT	24 VDC	16.7	8	Sealed Orange Case	Schrack	PB969-ND§	2.11	1.85	1.68	RT424024
	DPDT	24 VDC	16.7	8	RT Relay Package†	Schrack	PB1259-ND ***NEW!***	7.46	6.54	5.91	RT4S4LC4
	DPDT	24 VAC	—	8	Sealed Orange Case	Schrack	PB970-ND§	4.01	3.51	3.18	RT424524
	DPDT	24 VAC	31.6	8	RT Relay Package†	Schrack	PB1260-ND ***NEW!***	10.92	9.56	8.65	RT4S4R24
	DPDT	48VDC	8.7	8	Sealed Orange Case	Schrack	PB1239-ND	3.34	2.92	2.65	RT424048
	DPDT	48 VDC	8.7	8	Sealed Orange Case	Schrack	PB990-ND	2.90	2.55	2.30	RTE24048
	DPDT	115 VAC	—	8	Sealed Orange Case	Schrack	PB971-ND§	4.87	4.27	3.86	RT424615
	DPDT	115 VAC	6.6	8	RT Relay Package†	Schrack	PB1261-ND ***NEW!***	11.45	10.02	9.07	RT4S4S15
	DPDT	230 VAC	—	8	Sealed Orange Case	Schrack	PB991-ND	7.34	6.43	5.82	RTE24730
	DPDT	230 VAC	—	8	Sealed Orange Case	Schrack	PB972-ND§	7.13	6.24	5.65	RT424730
	DPDT	230 VAC	3.2	8	RT Relay Package†	Schrack	PB1262-ND ***NEW!***	12.98	11.37	10.28	RT4S4T30
1F	DPST-NO	12 VDC	33.3	8	Sealed Black Case	Potter & Brumfield	PB450-ND	2.06	1.81	1.64	RTE44012F
	DPST-NO	24 VDC	16.7	8	Sealed Black Case	Potter & Brumfield	PB992-ND	3.05	2.67	2.42	RTE44024F
RY Series — Miniature Sealed PCB Relay											
1A	SPDT	12 VDC	19.3	8	Silver Cadmium	Schrack	PB993-ND§	3.91	3.43	3.10	RY210012
	SPDT	24 VDC	10.2	8	Silver Cadmium	Schrack	PB994-ND§	3.91	3.43	3.10	RY210024
	SPDT	24 VDC	10.2	8	Silver Over Nickel	Schrack	PB995-ND§	3.91	3.43	3.10	RY211024
	SPDT	5 VDC	44.6	8	Silver Cadmium; Sealed	Schrack	PB649-ND	3.91	3.43	3.10	RY610005
	SPDT	12 VDC	19.3	8	Silver Cadmium; Sealed	Schrack	PB650-ND	3.91	3.43	3.10	RY610012
	SPDT	24 VDC	10.2	8	Silver Cadmium; Sealed	Schrack	PB651-ND	3.91	3.43	3.10	RY610024
	SPDT	12 VDC	19.3	8	Silver Over Nickel; Sealed	Schrack	PB996-ND	3.91	3.43	3.10	RY611012
	SPDT	24 VDC	10.2	8	Silver Over Nickel; Sealed	Schrack	PB997-ND	3.91	3.43	3.10	RY611024
NEW! RZ Series — Power PCB Relay NEW!											
2A	SPDT	5 VDC	84	12	3.5mm Pinning	Schrack	PB1271-ND§	2.64	2.31	2.09	RZ01-1C4-D005
	SPDT	9 VDC	44.4	12	3.5mm Pinning	Schrack	PB1272-ND§	2.64	2.31	2.09	RZ01-1C4-D009
	SPDT	12 VDC	33.3	12	3.5mm Pinning	Schrack	PB1273-ND§	2.64	2.31	2.09	RZ01-1C4-D012
	SPDT	24 VDC	16.7	12	3.5mm Pinning	Schrack	PB1274-ND§	2.64	2.31	2.09	RZ01-1C4-D024
2B	SPST-NO	5 VDC	84	12	3.5mm Pinning	Schrack	PB1263-ND§	2.57	2.25	2.04	RZ01-1A4-D005
	SPST-NO	9 VDC	44.4	12	3.5mm Pinning	Schrack	PB1264-ND§	2.57	2.25	2.04	RZ01-1A4-D009
	SPST-NO	12 VDC	33.3	12	3.5mm Pinning	Schrack	PB1265-ND§	2.57	2.25	2.04	RZ01-1A4-D012
	SPST-NO	24 VDC	16.7	12	3.5mm Pinning	Schrack	PB1266-ND§	2.57	2.25	2.04	RZ01-1A4-D024
2C	SPDT	5 VDC	84	16	5.0mm Double Pinning	Schrack	PB1275-ND§	2.74	2.40	2.17	RZ03-1C4-D005
	SPDT	9 VDC	44.4	16	5.0mm Double Pinning	Schrack	PB1276-ND§	2.74	2.40	2.17	RZ03-1C4-D009
	SPDT	12 VDC	33.3	16	5.0mm Double Pinning	Schrack	PB1277-ND§	2.74	2.40	2.17	RZ03-1C4-D012
	SPDT	24 VDC	16.7	16	5.0mm Double Pinning	Schrack	PB1278-ND§	2.74	2.40	2.17	RZ03-1C4-D024
2D	SPST-NO	5 VDC	84	16	5.0mm Double Pinning	Schrack	PB1267-ND§	2.64	2.31	2.09	RZ03-1A4-D005
	SPST-NO	9 VDC	44.4	16	5.0mm Double Pinning	Schrack	PB1268-ND§	2.64	2.31	2.09	RZ03-1A4-D009
	SPST-NO	12 VDC	33.3	16	5.0mm Double Pinning	Schrack	PB1269-ND§	2.64	2.31	2.09	RZ03-1A4-D012
	SPST-NO	24 VDC	16.7	16	5.0mm Double Pinning	Schrack	PB1270-ND§	2.64	2.31	2.09	RZ03-1A4-D024
Relay Card E											
3	SPDT	12 VDC	36.3	5	Horizontal	Schrack	PB1213-ND	4.73	4.14	3.75	V23057A 2A101
	SPDT	12 VDC	36.3	8	Horizontal	Schrack	PB1214-ND	5.02	4.39	3.98	V23057A 2A401
	SPDT	24 VDC	20	8	Horizontal	Schrack	PB1215-ND	10.42	9.12	8.25	V23057A 6A401
4	SPDT	12 VDC	36.3	5	Vertical	Schrack	PB1216-ND	10.42	9.12	8.25	V23057B 2A101
	SPDT	12 VDC	36.3	8	Vertical	Schrack	PB1217-ND	9.46	8.28	7.49	V23057B 2A401
	SPDT	24 VDC	20	5	Vertical	Schrack	PB1218-ND	10.27	8.99	8.14	V23057B 6A101
	SPDT	24 VDC	20	8	Vertical	Schrack	PB1219-ND	10.27	8.99	8.14	V23057B 6A401
PCH Series Relay											
5	SPDT	5 VDC	80	5	Sealed Case	OEG	PB890-ND	1.66	1.45	1.32	PCH-105D2H,000
	SPDT	12 VDC	33.3	5	Sealed Case	OEG	PB891-ND	1.66	1.45	1.32	PCH-112D2H,000
	SPDT	24 VDC	11.1	5	Sealed Case	OEG	PB892-ND	1.75	1.54	1.39	PCH-124D2H,000
PCJ Series Relay											
6	SPST-NO	5 VDC	40	5	Sealed Case	Schrack	PB893-ND	1.51	1.33	1.20	PCJ-105D3MH,301
	SPST-NO	12 VDC	16.6	5	Sealed Case	Schrack	PB894-ND	1.51	1.33	1.20	PCJ-112D3MH,000
	SPST-NO	24 VDC	8.3	5	Sealed Case	Schrack	PB895-ND	1.46	1.29	1.16	PCJ-124D3MH,000

§ Flux-Tight Version   † Package consists of RT Relay, DIN-Rail Socket, Plastic Retaining Clip, Module and Marking Tag.

Fig. 3 — Relay Card E - Horizontal

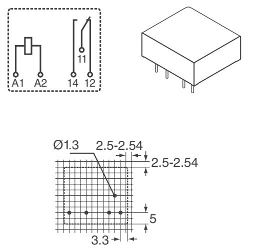

Fig. 4 — Relay Card E - Vertical

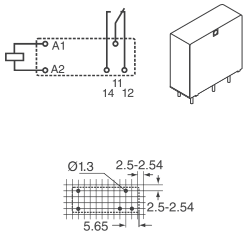

Fig. 5 — PCH Series

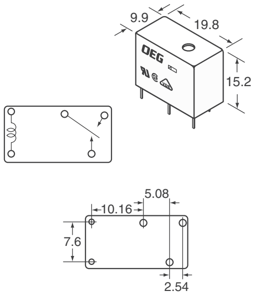

Fig. 6 — PCJ Series

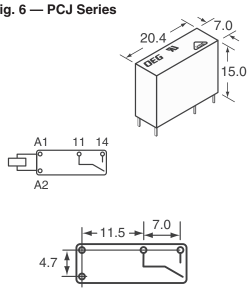

RT and RY Sockets and Accessories

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
1	DIN Rail "Module Option" Socket for SP 3.5mm Pin Spacing	RT	PB779-ND	3.02	2.65	2.40	1.89	RT78724
	DIN Rail "Module Option" Socket for SP and DP 5.0mm Pin Spacing	RT	PB780-ND	3.89	3.41	3.08	2.43	RT78726
2	PCB Mount Socket for 3.5mm Pin Spacing, 10A	RT	PB667-ND	2.76	2.42	2.19	1.73	RP78601
	PCB Mount Socket for 5.0mm Pin Spacing, 10A	RT	PB525-ND	2.76	2.42	2.19	1.73	RP78602
—	Metal Relay Retaining Clip for PCB Socket	RT	PB957-ND	.19	.17	.16	.12	RT28516
	Socket with Screwless Terminals for DIN Rail Mounting	RT	PB1240-ND	4.66	4.08	3.69	2.91	RT7872P
	Plastic Relay Retaining Clip for PC Mount Sockets, RT Series	RT	PB778-ND	.36	.32	.29	.23	RT16041
	Plastic Relay Retaining Clip for 15.7mm RT78	RT	PB1236-ND	.60	.53	.48	.38	RT17017
	Marking Tag for RT78	RT	PB1237-ND	.14	.13	.12	.09	RT17040
	Plastic Relay Retaining Clip for PC Mount Sockets, RY Series	RY	PB777-ND	.43	.38	.35	.27	RP16100

Fig. 1

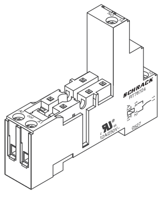

Fig. 2

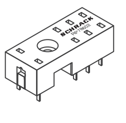

General Purpose Relays

Dimensions in mm

Fig. 1 — K10 Series

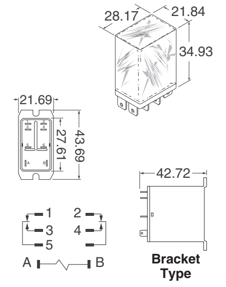

Fig. 2 — R10 Series

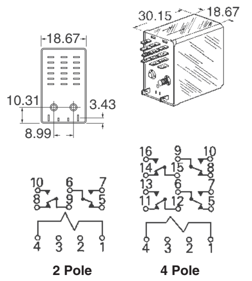

Fig. 3 — KH Series

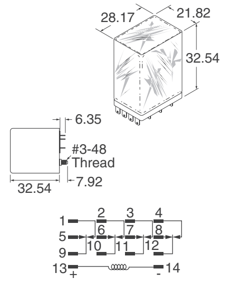

Fig. 4 — KU Series

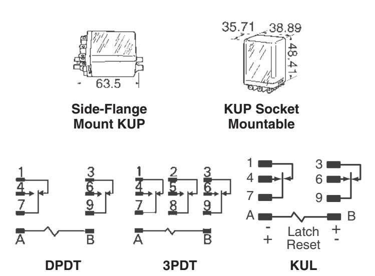

Fig. 5 — PCLH Series

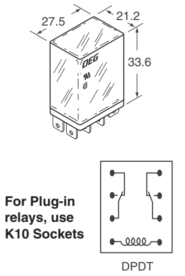

For Plug-in relays, use K10 Sockets

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
									1	25	50	100	
K10 Series — General Purpose Miniature Power Relay — RoHS Compliant													
1	DPDT	12 VAC	100	15	.187 (4.75) QC	—	Potter & Brumfield	PB319-ND	8.86	7.75	7.02	5.54	K10P-11A15-12
	DPDT	24 VAC	52	15	.187 (4.75) QC	—	Potter & Brumfield	PB320-ND	8.86	7.75	7.02	5.54	K10P-11A15-24
	DPDT	120 VAC	11	15	.187 (4.75) QC	—	Potter & Brumfield	PB321-ND	8.86	7.75	7.02	5.54	K10P-11A15-120
	DPDT	240 VAC	—	15	.187 (4.75) QC	—	Potter & Brumfield	PB829-ND	9.14	8.01	7.24	5.72	K10P-11A15-240
	DPDT	6 VDC	150	15	.187 (4.75) QC	—	Potter & Brumfield	PB323-ND	8.86	7.75	7.02	5.54	K10P-11D15-6
	DPDT	12 VDC	75	15	.187 (4.75) QC	—	Potter & Brumfield	PB324-ND	8.86	7.75	7.02	5.54	K10P-11D15-12
	DPDT	24 VDC	37	15	.187 (4.75) QC	—	Potter & Brumfield	PB325-ND	8.86	7.75	7.02	5.54	K10P-11D15-24
	DPDT	110 VDC	10	15	.187 (4.75) QC	—	Potter & Brumfield	PB326-ND	8.86	7.75	7.02	5.54	K10P-11D15-110
	DPDT	12 VDC	75	15	PC Mount	—	Potter & Brumfield	PB327-ND	8.86	7.75	7.02	5.54	K10P-11D55-12
	DPDT	24 VDC	37	15	PC Mount	—	Potter & Brumfield	PB328-ND	8.86	7.75	7.02	5.54	K10P-11D55-24
	DPDT	110 VDC	10	15	PC Mount	—	Potter & Brumfield	PB451-ND	8.86	7.75	7.02	5.54	K10P-11D55-110
	DPDT	12 VDC	75	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB329-ND	9.14	8.01	7.24	5.72	K10P-11DT5-12
	DPDT	24 VDC	37	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB330-ND	9.14	8.01	7.24	5.72	K10P-11DT5-24
	DPDT	120 VAC	11	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB322-ND	9.14	8.01	7.24	5.72	K10P-11AT5-120
R10 Series — General Purpose Power Relay													
2	DPDT	6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB116-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V52
	DPDT	12 VDC	20	3	Plug-In	—	Potter & Brumfield	PB776-ND◆	33.36	29.19	26.41	20.85	R10S-E1Y2-J5.0K
	DPDT	12 VDC	64	3	Plug-In	—	Potter & Brumfield	PB117-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V185
	DPDT	12 VDC	45	3	Plug-In	—	Potter & Brumfield	PB774-ND◆	15.67	13.72	12.41	9.80	R10-E1Y2-J1.0K
	DPDT	24 VDC	34	3	Plug-In	—	Potter & Brumfield	PB118-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V700
	DPDT	24 VDC	55.8	3	Plug-In	—	Potter & Brumfield	PB770-ND◆	16.78	14.68	13.29	10.49	R10-E1P2-V700
	DPDT	48 VDC	19	3	Plug-In	—	Potter & Brumfield	PB119-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V2.5K
	4PDT	6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB120-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V52
	4PDT	12 VDC	64	3	Plug-In	—	Potter & Brumfield	PB121-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V185
	4PDT	24 VDC	34	3	Plug-In	—	Potter & Brumfield	PB122-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V700
	4PDT	48 VDC	19	3	Plug-In	—	Potter & Brumfield	PB123-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V2.5K
	4PDT	24 VDC	34	7.5	Plug-In	—	Potter & Brumfield	PB772-ND◆	26.78	23.44	21.21	16.74	R10-E1W4-V700
	DPDT	6 VDC	115	5	Plug-In	—	Potter & Brumfield	PB124-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V52
	DPDT	12 VDC	64	5	Plug-In	—	Potter & Brumfield	PB125-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V185
	DPDT	24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB126-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V700
	DPDT	48 VDC	19	5	Plug-In	—	Potter & Brumfield	PB127-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V2.5K
	DPDT	115 VAC	—	5	Plug-In	—	Potter & Brumfield	PB598-ND◆	30.53	26.72	24.17	19.08	R10-E1X2-115V
	DPDT	24 VDC	34	7.5	Plug-In	—	Potter & Brumfield	PB454-ND◆	17.06	14.94	13.51	10.67	R10-E1W2-V700
	DPDT	12 VDC	64	7.5	Plug-In	—	Potter & Brumfield	PB771-ND◆	17.06	14.94	13.51	10.67	R10-E1W2-V185
	4PDT	24 VDC	34	5	PC Mount	—	Potter & Brumfield	PB452-ND◆	15.82	13.84	12.53	9.89	R10-E2X2-V700
	4PDT	12 VDC	64	5	Plug-In	—	Potter & Brumfield	PB129-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V185
	4PDT	24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB130-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V700
	4PDT	48 VDC	19	5	Plug-In	—	Potter & Brumfield	PB131-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V2.5K
	4PDT	24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB453-ND◆	26.59	23.27	21.06	16.62	R10-E1M4-V700
	4PDT	115 VAC	—	5	Plug-In	—	Potter & Brumfield	PB599-ND◆	39.70	34.74	31.43	24.81	R10-E1X4-115V
	6PDT	12 VDC	133	5	Plug-In	—	Potter & Brumfield	PB773-ND◆	32.52	28.46	25.75	20.33	R10-E1X6-V90
	6PDT	24 VDC	430	5	Plug-In	—	Potter & Brumfield	PB600-ND◆	32.52	28.46	25.75	20.33	R10-E1X6-V430
	6PDT	24 VDC	430	2	Plug-In	—	Potter & Brumfield	PB775-ND◆	34.13	29.87	27.02	21.33	R10-E1Z6-V430
KH Series — General Purpose Low Cost Power Relay — RoHS Compliant §													
3	DPDT	12 VDC	75	5	Plug-In	—	Potter & Brumfield	PB455-ND	7.87	6.89	6.24	4.92	KHAU-11D12-12
	DPDT	24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB730-ND	7.87	6.89	6.24	4.92	KHAU-11D11-24
	DPDT	120 VAC	—	5	Plug-In	—	Potter & Brumfield	PB729-ND	8.38	7.33	6.64	5.24	KHAU-11A11-120
	4PDT	12 VAC	—	3	Plug-In	—	Potter & Brumfield	PB731-ND	7.87	6.89	6.24	4.92	KHAU-17A11-12
	4PDT	24 VAC	—	3	Plug-In	—	Potter & Brumfield	PB139-ND	7.87	6.89	6.24	4.92	KHAU-17A11-24
	4PDT	120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB604-ND	31.49	27.56	24.93	19.68	KHU-17A11-120
	4PDT	120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB140-ND	8.86	7.75	7.02	5.54	KHAU-17A11-120
	4PDT	120 VAC	—	3	Plug-In	With Indicator Light	Potter & Brumfield	PB141-ND	10.82	9.48	8.57	6.77	KHAU-17A11N-120
	4PDT	120 VAC	—	5	Plug-In	—	Potter & Brumfield	PB456-ND	7.87	6.89	6.24	4.92	KHAU-17A12-120
	4PDT	120 VAC	—	5	Plug-In	With Indicator Light	Potter & Brumfield	PB830-ND	11.33	9.92	8.97	7.08	KHAU-17A12H-120
	4PDT	24 VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB457-ND	30.05	26.30	23.79	18.78	KHAU-17A16-24
	4PDT	120 VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB601-ND	32.50	28.44	25.73	20.31	KHAU-17A16-120
	4PDT	120 VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB732-ND	9.84	8.61	7.79	6.15	KHAU-17A18-120
	4PDT	12 VDC	75	3	Plug-In	—	Potter & Brumfield	PB605-ND	9.84	8.61	7.79	6.15	KHU-17D11-12
	4PDT	24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB606-ND	9.84	8.61	7.79	6.15	KHU-17D11-24
	4PDT	6 VDC	150	3	Plug-In	—	Potter & Brumfield	PB831-ND	7.87	6.89	6.24	4.92	KHAU-17D11-6
	4PDT	12 VDC	75	3	Plug-In	—	Potter & Brumfield	PB142-ND	7.87	6.89	6.24	4.92	KHAU-17D11-12
	4PDT	24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB143-ND	7.87	6.89	6.24	4.92	KHAU-17D11-24
	4PDT	48 VDC	18	3	Plug-In	—	Potter & Brumfield	PB734-ND	8.86	7.75	7.02	5.54	KHAU-17D11-48
	4PDT	120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB733-ND	8.86	7.75	7.02	5.54	KHAU-17D11-110
	4PDT	12 VDC	75	5	Plug-In	—	Potter & Brumfield	PB602-ND	7.87	6.89	6.24	4.92	KHAU-17D12-12
	4PDT	12 VDC	75	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB735-ND	27.07	23.69	21.44	16.92	KHAU-17D16-12
	4PDT	24 VDC	37	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB603-ND	26.88	23.52	21.28	16.80	KHAU-17D16-24
	4PDT	110 VDC	10	5	Plug-In	—	Potter & Brumfield	PB832-ND	8.23	7.21	6.52	5.15	KHAU-17D12-110
KU Series — Enclosed Relay													
4	DPDT	24 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB151-ND◆	11.81	10.34	9.35	7.38	KUP-11A15-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB152-ND◆	11.81	10.34	9.35	7.38	KUP-11A15-120
	DPDT	12 VDC	100	10	.187 (4.75) QC	—	Potter & Brumfield	PB153-ND◆	11.81	10.34	9.35	7.38	KUP-11D15-12
	DPDT	24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB154-ND◆	11.81	10.34	9.35	7.38	KUP-11D15-24
	DPDT	110 VDC	11	10	.187 (4.75) QC	—	Potter & Brumfield	PB610PB-ND◆	11.81	10.34	9.35	7.38	KUP-11D15-110
	DPDT	12 VDC	100	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB155-ND◆	11.33	9.92	8.97	7.08	KUP-11D55-12
	DPDT	24 VDC	51	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB156-ND◆	11.33	9.92	8.97	7.08	KUP-11D55-24
	DPDT	24 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB222-ND◆	11.81	10.34	9.35	7.38	KUP-11A55-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB463-ND◆	12.31	10.78	9.75	7.70	KUP-11A55-120
	DPST	24 VDC	75	10	.187 (4.75) QC	High Iso-Side Flange	Potter & Brumfield	PB223-ND◆	19.92	17.43	15.77	12.45	KUGP-7D55-24

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 6 — XT Series

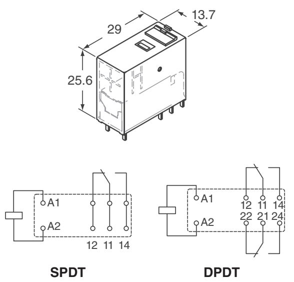

Fig. 7 — PT/PTH Series

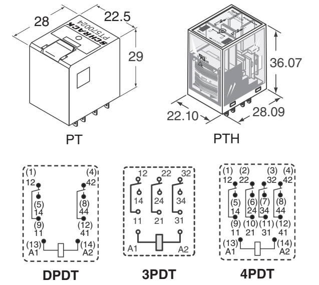

Fig. 8 — MT Series

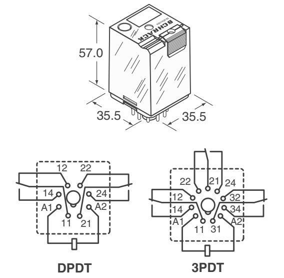

Fig. 9 — RM Series

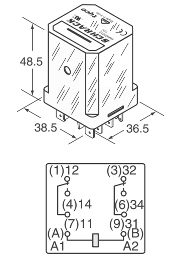

Fig. 10 — RMD Series

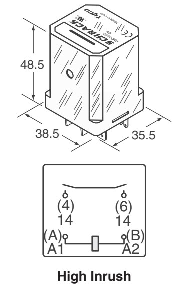

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
									1	25	50	100	
4	SPDT	240 VAC	26	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB857-ND◆	14.76	12.92	11.69	9.23	KUP-5A15-240
	3PDT	120 VAC	24	5	.187 (4.75) QC	—	Potter & Brumfield	PB611-ND◆	13.78	12.06	10.91	8.61	KUP-14A11-120
	3PDT	24 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB157-ND◆	13.78	12.06	10.91	8.61	KUP-14A15-24
	3PDT	120 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB158-ND◆	13.78	12.06	10.91	8.61	KUP-14A15-120
	3PDT	240 VAC	12	10	.187 (4.75) QC	—	Potter & Brumfield	PB612-ND◆	14.26	12.48	11.29	8.91	KUP-14A15-240
	3PDT	12 VDC	100	10	.187 (4.75) QC	—	Potter & Brumfield	PB159-ND◆	12.79	11.20	10.13	8.00	KUP-14D15-12
	3PDT	24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB160-ND◆	12.79	11.20	10.13	8.00	KUP-14D15-24
	3PDT	48 VDC	26.7	10	.187 (4.75) QC	—	Potter & Brumfield	PB855-ND◆	13.78	12.06	10.91	8.61	KUP-14D15-48
	3PDT	110 VDC	11	10	.187 (4.75) QC	—	Potter & Brumfield	PB613-ND◆	13.30	11.64	10.53	8.31	KUP-14D15-110
	3PDT	24 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB464-ND◆	14.76	12.92	11.69	9.23	KUP-14A35-24
	3PDT	24 VDC	51	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB465-ND◆	14.76	12.92	11.69	9.23	KUP-14D35-24
	3PDT	120 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB161-ND◆	14.76	12.92	11.69	9.23	KUP-14A35-120
	3PDT	110 VDC	11	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB856-ND◆	14.76	12.92	11.69	9.23	KUP-14D35-110
	3PDT	120 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB852-ND◆	14.26	12.48	11.29	8.91	KUP-14A35F-120
	3PDT	120 VAC	—	10	.187 (4.75) QC	With Test Button	Potter & Brumfield	PB162-ND◆	15.74	13.78	12.47	9.84	KUP-14A45-120
	3PDT	24 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB163-ND◆	14.26	12.48	11.29	8.91	KUP-14A55-24
	3PDT	120 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB164-ND◆	14.26	12.48	11.29	8.91	KUP-14A55-120
	3PDT	12 VDC	100	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB614-ND◆	13.30	11.64	10.53	8.31	KUP-14D55-12
	3PDT	24 VDC	51	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB672-ND◆	13.30	11.64	10.53	8.31	KUP-14D55-24
	SPST-NO	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB466-ND◆	17.64	15.44	13.97	11.03	KUEP-3D15-24
	SPST-NO	110 VDC	11	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB616-ND◆	16.49	14.43	13.06	10.31	KUEP-3D15-110
	SPST-NO	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB843-ND◆	17.18	15.04	13.61	10.74	KUEP-3D35-24
	DPST-NO	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB845-ND◆	16.63	14.56	13.17	10.40	KUEP-7D15-24
	DPST-NO	110 VDC	11	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB844-ND◆	23.54	20.61	18.64	14.72	KUEP-7D15-110
	DPDT	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB467-ND◆	19.99	17.50	15.83	12.50	KUEP-11D15-24
	DPDT	120 VAC	24	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB615-ND◆	21.86	19.14	17.31	13.67	KUEP-11A15-120
	DPDT	48 VDC	26.7	10	.187 (4.75) QC	—	Potter & Brumfield	PB841-ND◆	24.43	21.38	19.35	15.27	KUEP-11D15-48
	DPDT	120 VAC	24	15	.187 (4.75) QC	—	Potter & Brumfield	PB617-ND	14.23	12.46	11.27	8.90	KUMP-11A18-120
	DPDT	24 VDC	51	15	.187 (4.75) QC	—	Potter & Brumfield	PB618-ND◆	13.20	11.55	10.45	8.25	KUMP-11D18-24
	3PDT	120 VAC	24	15	.187 (4.75) QC	—	Potter & Brumfield	PB619-ND◆	16.27	14.24	12.89	10.17	KUMP-14A18-120
	3PDT	24 VDC	51	15	.187 (4.75) QC	—	Potter & Brumfield	PB468-ND◆	15.24	13.34	12.07	9.53	KUMP-14D18-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	Top Flange	Potter & Brumfield	PB469-ND	16.90	14.79	13.38	10.56	KUIP-11AT5-120
	DPDT	24 VAC	—	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB470-ND◆	14.81	12.96	11.73	9.26	KUHP-11A51-24
	DPDT	120 VAC	—	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB620-ND◆	14.81	12.96	11.73	9.26	KUHP-11A51-120
	DPDT	120 VAC	—	20	.250 (6.35) QC	Top Flange	Potter & Brumfield	PB621-ND◆	15.31	13.40	12.13	9.57	KUHP-11AT1-120
	DPDT	12 VDC	120	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB622-ND◆	14.30	12.52	11.33	8.94	KUHP-11D51-12
	DPDT	24 VDC	472	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB623-ND	14.30	12.52	11.33	8.94	KUHP-11D51-24
	DPDT	24 VDC	472	20	.250 (6.35) QC	Top Flange	Potter & Brumfield	PB624-ND◆	14.30	12.52	11.33	8.94	KUHP-11DT1-24
	DPDT	240 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB846-ND◆	15.91	13.93	12.60	9.95	KUHP-11A51-240
	DPDT	12 VDC	120	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB625-ND◆	55.10	48.22	43.63	34.44	KUL-11D15D-12
	DPDT	24 VDC	51	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB471-ND◆	55.10	48.22	43.63	34.44	KUL-11D15D-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB472-ND◆	42.41	37.11	33.58	26.51	KUL-11A15S-120
	DPDT	24 VAC	—	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB848-ND◆	42.41	37.11	33.58	26.51	KUL-11A15S-24
	DPDT	48 VDC	26.7	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB849-ND◆	56.83	49.73	45.00	35.52	KUL-11D15D-48
PCLH Series Relay — RoHS Compliant													
5	DPDT	12 VAC	—	15	Plug-In	Class F Coil	OEG	PB896-ND	6.62	5.80	5.25	4.14	PCLH-202A1S,000
	DPDT	12 VDC	75	15	PC Mount	Class F Coil	OEG	PB897-ND	6.29	5.51	4.98	3.93	PCLH-202D1SP,000
	DPDT	12 VDC	75	15	Plug-In	Class F Coil	OEG	PB898-ND	6.29	5.51	4.98	3.93	PCLH-202D1S,000
	DPDT	24 VAC	—	15	Plug-In	Class F Coil	OEG	PB899-ND	6.67	5.84	5.29	4.17	PCLH-203A1S,000
	DPDT	24 VDC	36.9	15	PC Mount	Class F Coil	OEG	PB900-ND	6.29	5.51	4.98	3.93	PCLH-203D1SP,000
	DPDT	48 VDC	18.5	15	Plug-In	Class F Coil	OEG	PB901-ND	6.38	5.59	5.06	3.99	PCLH-204D1S,000
	DPDT	110 VDC	10	15	Plug-In	Class F Coil	OEG	PB902-ND	6.70	5.86	5.31	4.19	PCLH-205D1S,000
	DPDT	110 VAC	—	15	PC Mount	Class F Coil	OEG	PB903-ND	6.74	5.91	5.34	4.22	PCLH-206A1SP,000
	DPDT	110 VAC	—	15	Plug-In	Class F Coil	OEG	PB904-ND	6.74	5.91	5.34	4.22	PCLH-206A1S,000
	DPDT	220 VAC	—	15	Plug-In	Class F Coil	OEG	PB905-ND	7.87	6.89	6.24	4.92	PCLH-208A1S,000
XT Series Relay — RoHS Compliant													
6	SPDT	12 VDC	33.3	16	Plug-In	—	Schrack	PB1185-ND	4.22	3.70	3.35	2.64	XT314012
	SPDT	24 VDC	16.7	16	Plug In	—	Schrack	PB1186-ND	4.25	3.72	3.37	2.66	XT314024
	SPDT	12 VDC	33.3	16	Plug-In	With LED and PD	Schrack	PB1187-ND	6.50	5.70	5.15	4.07	XT374LB2
	SPDT	24 VDC	16.7	16	Plug-In	With LED and PD	Schrack	PB1188-ND	6.53	5.72	5.17	4.08	XT374LC4
	SPDT	24 VAC	31.6	16	Plug-In	—	Schrack	PB1189-ND	4.51	3.95	3.58	2.82	XT314524
	SPDT	115 VAC	6.6	16	Plug-In	—	Schrack	PB1190-ND	5.16	4.52	4.09	3.23	XT314615
	SPDT	24 VAC	31.6	16	Plug-In	With LED	Schrack	PB1191-ND	6.72	5.88	5.32	4.20	XT374R24
	SPDT	115 VAC	6.6	16	Plug-In	With LED	Schrack	PB1192-ND	7.37	6.45	5.84	4.61	XT374S15
	SPDT	230 VAC	3.2	16	Plug-In	With LED	Schrack	PB1193-ND	9.00	7.88	7.13	5.63	XT374T30
	DPDT	12 VDC	33.3	8	Plug-In	—	Schrack	PB1194-ND	4.37	3.83	3.46	2.73	XT424012
	DPDT	24 VDC	16.7	8	Plug-In	—	Schrack	PB1195-ND	4.44	3.89	3.52	2.78	XT424024
	DPDT	12 VDC	33.3	8	Plug-In	With LED and PD	Schrack	PB1196-ND	6.67	5.84	5.29	4.17	XT484LB2
	DPDT	24 VDC	16.7	8	Plug-In	With LED and PD	Schrack	PB1197-ND	6.72	5.88	5.32	4.20	XT484LC4
	DPDT	24 VAC	31.6	8	Plug-In	—	Schrack	PB1198-ND	4.30	3.76	3.41	2.69	XT424524
	DPDT	115 VAC	6.6	8	Plug-In	—	Schrack	PB1199-ND	5.33	4.67	4.22	3.33	XT424615
	DPDT	24 VAC	31.6	8	Plug-In	With LED	Schrack	PB1200-ND	6.74	5.91	5.34	4.22	XT484R24
	DPDT	115 VAC	6.6	8	Plug-In	With LED	Schrack	PB1201-ND	7.37	6.45	5.84	4.61	XT424S15
	DPDT	230 VAC	3.2	8	Plug-In	With LED	Schrack	PB1202-ND	9.00	7.88	7.13	5.63	XT484T30
—	Plastic Retaining Clip, XT Series							PB1203-ND	.60	.53	.48	.38	XT17017
PT Series Relay — RoHS Compliant													
7	DPDT	12 VDC	62.5	12	Plug-In	With Indicator and Test	Schrack	PB908-ND	6.36	5.57	5.04	3.98	PT270012
	DPDT	24 VDC	30.8	12	Plug-In	With Indicator and Test	Schrack	PB717-ND	6.34	5.55	5.02	3.96	PT270024
	DPDT	24 VAC	—	12	Plug-In	With Indicator and Test	Schrack	PB909-ND	6.48	5.67	5.13	4.05	PT270524
	DPDT	115 VAC	—	12	Plug-In	With Indicator and Test	Schrack	PB718-ND	6.84	5.99	5.42	4.28	PT270615
	DPDT	230 VAC	—	12	Plug-In	With Indicator and Test	Schrack	PB719-ND	6.79	5.95	5.38	4.25	PT270730
	3PDT	24 VDC	30.8	10	Plug-In	With Indicator and Test	Schrack	PB910-ND	7.25	6.35	5.74	4.53	PT370024

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

Dimensions in mm

Fig. 11 — RP Series

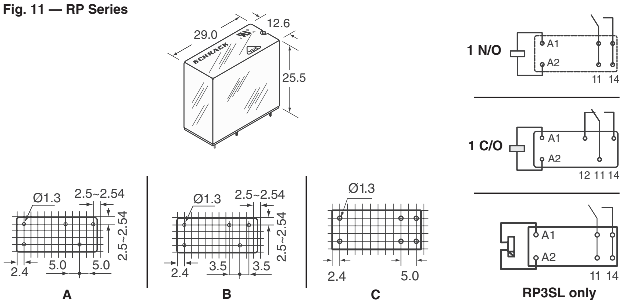

Fig. 12 — KRP/KRPA/KBP Series

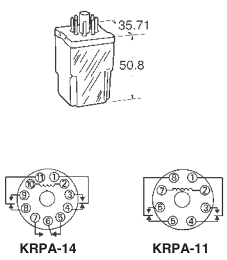

Fig. 13 — T90 Series

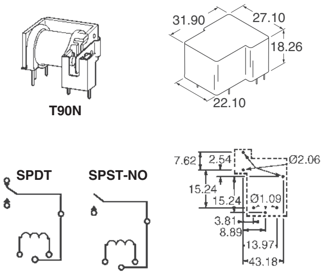

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
7	3PDT	115 VAC	—	10	Plug-In	With Indicator and Test	Schrack	PB911-ND	7.73	6.77	6.12	4.83	PT370615
	4PDT	12 VDC	62.5	6	Plug-In	With Indicator and Test	Schrack	PB912-ND	6.86	6.01	5.44	4.29	PT570012
	4PDT	24 VDC	30.8	6	Plug-In	With Indicator and Test	Schrack	PB720-ND	6.86	6.01	5.44	4.29	PT570024
	4PDT	24 VAC	—	6	Plug-In	With Indicator and Test	Schrack	PB914-ND	7.01	6.14	5.55	4.38	PT570524
	4PDT	115 VAC	—	6	Plug-In	With Indicator and Test	Schrack	PB721-ND	7.34	6.43	5.82	4.59	PT570615
	4PDT	230 VAC	—	6	Plug-In	With Indicator and Test	Schrack	PB722-ND	7.61	6.66	6.03	4.76	PT570730
						PTH Series — Miniature Relay — RoHS Compliant							
7	DPDT	12 VAC	83.3	12	Plug-In	—	Schrack	PB1142-ND	4.70	4.12	3.73	2.94	PT22A512B
	DPDT	24 VAC	41.6	12	Plug-In	—	Schrack	PB1145-ND	4.68	4.10	3.71	2.93	PT22A524B
	DPDT	115 VAC	8.8	12	Plug-In	—	Schrack	PB1146-ND	4.82	4.23	3.82	3.02	PT22A615B
	DPDT	12 VAC	83.3	12	Plug-In	With LED	Schrack	PB1147-ND	5.71	5.00	4.53	3.57	PT22AR12B
	DPDT	24 VAC	41.6	12	Plug-In	With LED	Schrack	PB1148-ND	5.69	4.98	4.51	3.56	PT22AR24B
	DPDT	115 VAC	8.8	12	Plug-In	With LED	Schrack	PB1149-ND	5.86	5.13	4.64	3.66	PT22AS15B
	DPDT	12 VDC	62.5	12	Plug-In	—	Schrack	PB1155-ND	4.56	3.99	3.61	2.85	PT22A012B
	DPDT	24 VDC	30.8	12	Plug-In	—	Schrack	PB1156-ND	4.61	4.04	3.65	2.88	PT22A024B
	DPDT	12 VDC	62.5	12	PCB/Solder	—	Schrack	PB1159-ND	4.56	3.99	3.61	2.85	PT22B012B
	DPDT	24 VDC	30.8	12	PCB/Solder	—	Schrack	PB1160-ND	5.30	4.65	4.20	3.32	PT22B024B
	4PDT	12 VAC	83.3	6	Plug-In	—	Schrack	PB1150-ND	5.69	4.98	4.51	3.56	PT52A512B
	4PDT	24 VAC	41.6	6	Plug-In	—	Schrack	PB1151-ND	5.69	4.98	4.51	3.56	PT52A524B
	4PDT	12 VAC	83.3	6	Plug-In	With LED	Schrack	PB1152-ND	6.79	5.95	5.38	4.25	PT52AR12B
	4PDT	24 VAC	41.6	6	Plug-In	With LED	Schrack	PB1153-ND	7.61	6.66	6.03	4.76	PT52AR24B
	4PDT	115 VAC	8.8	6	Plug-In	With LED	Schrack	PB1154-ND	7.63	6.68	6.05	4.77	PT52AS15B
	4PDT	12 VDC	62.5	6	Plug-In	—	Schrack	PB1157-ND	6.22	5.44	4.93	3.89	PT52A012B
	4PDT	24 VDC	30.8	6	Plug-In	—	Schrack	PB1158-ND	5.59	4.90	4.43	3.50	PT52A024B
	4PDT	12 VDC	62.5	6	PCB/Solder	—	Schrack	PB1161-ND	5.69	4.98	4.51	3.56	PT52B012B
	4PDT	24 VDC	30.8	6	PCB/Solder	—	Schrack	PB1162-ND	5.69	4.98	4.51	3.56	PT52B024B
—	DIN Rail Socket with Screw Terminal, DP					PT/PTH/KHA	Schrack	PB723-ND	2.71	2.38	2.15	1.70	PT78720
	DIN Rail Socket with Screw Terminal, 3P					PT/PTH/KHA	Schrack	PB1144-ND	10.06	8.80	7.97	6.29	PT78730
	DIN Rail Socket with Screw Terminal, 4P					PT/PTH/KHA	Schrack	PB724-ND	3.43	3.01	2.72	2.15	PT78740
	DIN-Rail Socket with Screw Terminals, I/O Arrangement					PT/PTH/KHA	Schrack	PB1232-ND	9.24	8.09	7.32	5.78	PT78742
	Plastic Retainer Clip for 29mm Relays for use with Din Rail Sockets					PT/PTH/KHA	Schrack	PB725-ND	.48	.42	.38	.30	PT17016
	Plastic Retainer Clip for 29mm PT78					PT/PTH/KHA	Schrack	PB1230-ND	.62	.55	.50	.39	PT17021
	Marking Tag for PT78					PT/PTH/KHA	Schrack	PB1231-ND	.24	.21	.19	.15	PT17040
	Solder Terminal Socket with Mounting Ears for 4P					PT/PTH/KHA	Schrack	PB726-ND	2.02	1.77	1.60	1.26	PT78600
	PCB Mount Socket without Mounting Ears for 4P					PT/PTH/KHA	Schrack	PB727-ND	1.90	1.66	1.51	1.19	PT78604
	Metal Retaining Clip for PCB Mount Sockets					PT/PTH/KHA	Schrack	PB728-ND	.58	.51	.46	.36	PT28802
						MT Series Relay — RoHS Compliant							
8	DPDT	12 VDC	50	10	8 Octal	With Locking Tab	Schrack	PB860-ND	12.98	11.37	10.28	8.12	MT221012
	DPDT	24 VDC	50	10	8 Octal	With Locking Tab	Schrack	PB861-ND	12.98	11.37	10.28	8.12	MT221024
	DPDT	24 VAC	—	10	8 Octal	With Locking Tab	Schrack	PB862-ND	11.71	10.25	9.28	7.32	MT226024
	DPDT	115 VAC	—	10	8 Octal	With Locking Tab	Schrack	PB863-ND	13.68	11.97	10.83	8.55	MT226115
	DPDT	230 VAC	—	10	8 Octal	With Locking Tab	Schrack	PB864-ND	15.05	13.17	11.92	9.41	MT226230
	3PDT	12 VDC	50	10	11 Octal	With Locking Tab	Schrack	PB865-ND	13.68	11.97	10.83	8.55	MT321012
	3PDT	24 VDC	50	10	11 Octal	With Locking Tab	Schrack	PB866-ND	13.68	11.97	10.83	8.55	MT321024
	3PDT	24 VAC	—	10	11 Octal	With Locking Tab	Schrack	PB867-ND	13.68	11.97	10.83	8.55	MT326024
	3PDT	115 VAC	—	10	11 Octal	With Locking Tab	Schrack	PB868-ND	13.68	11.97	10.83	8.55	MT326115
	3PDT	230 VAC	—	10	11 Octal	With Locking Tab	Schrack	PB869-ND	13.34	11.68	10.57	8.34	MT326230
	3PDT	24 VAC	—	10	11 Octal	With Locking Tab	Schrack	PB1227-ND	19.13	16.74	15.15	11.96	MT328024
—	Din Rail Mount, 11 Pin Octal Socket; Long Body Style							PB870-ND	7.61	6.66	6.03	4.76	MT78740
	Din Rail Mount, 8 Pin Octal Socket; Long Body Style							PB871-ND	7.34	6.43	5.82	4.59	MT78745
	Din Rail Mount, 11 Pin Octal Socket; Short Body Style							PB872-ND	5.28	4.62	4.18	3.30	MT78750
	Din Rail Mount, 8 Pin Octal Socket; Short Body Style							PB873-ND	5.23	4.58	4.15	3.27	MT7875
						RM Series Relay — RoHS Compliant							
9	DPDT	12 VDC	109	16	.187 (4.75) QC	—	Schrack	PB918-ND	12.86	11.26	10.19	8.04	RM202012
	DPDT	24 VDC	50.5	16	.187 (4.75) QC	—	Schrack	PB919-ND	12.86	11.26	10.19	8.04	RM202024
	DPDT	115 VAC	—	16	.187 (4.75) QC	—	Schrack	PB920-ND	13.94	12.21	11.04	8.72	RM202615
	DPDT	115 VAC	—	16	.250 (6.35) QC	—	Schrack	PB921-ND	13.94	12.21	11.04	8.72	RM205615
	3PDT	24 VDC	50.5	10	.187 (4.75) QC	—	Schrack	PB923-ND	14.33	12.54	11.35	8.96	RM302024
	3PDT	24 VDC	50.5	16	.187 (4.75) QC	—	Schrack	PB924-ND	14.33	12.54	11.35	8.96	RM702024
	3PDT	24 VAC	—	16	.187 (4.75) QC	—	Schrack	PB925-ND	14.33	12.54	11.35	8.96	RM702524
	3PDT	115 VAC	—	16	.187 (4.75) QC	—	Schrack	PB926-ND	13.25	11.60	10.49	8.28	RM702615
	3PDT	115 VAC	—	16	.250 (6.35) QC	—	Schrack	PB927-ND	13.25	11.60	10.49	8.28	RM705615
	DPDT	12 VDC	109	25	.250 (6.35) QC	With Mounting Bracket	Schrack	PB931-ND	16.63	14.56	13.17	10.40	RM805012
	DPDT	24 VAC	—	25	.250 (6.35) QC	With Mounting Bracket	Schrack	PB932-ND	16.63	14.56	13.17	10.40	RM805524
	DPDT	115 VAC	—	25	.250 (6.35) QC	With Mounting Bracket	Schrack	PB933-ND	16.63	14.56	13.17	10.40	RM805615
10	SPDT	12 VDC	109	30	.250 (6.35) QC	With Top Bracket	Schrack	PB934-ND	11.93	10.44	9.45	7.46	RMD05012
—	Relay Socket QC Terminal Type for RM Relays							PB928-ND	2.62	2.29	2.08	1.64	RM78700
	Relay Socket Solder Terminal Type for RM Relays							PB929-ND	4.61	4.04	3.65	2.88	RM78701
	Relay Socket Screw Terminal Type for RM Relays							PB930-ND	18.02	15.78	14.27	11.27	RM78705
	Metal Retaining Clip for RM Sockets							PB922-ND	.77	.68	.61	.48	RM28802
						RP Series Relay — RoHS Compliant							
11A	SPDT	12 VDC	44.4	16	PC Mount	AgCdO	Schrack	PB935-ND	4.58	4.02	3.63	2.87	RP310012
	SPDT	24 VDC	21.8	16	PC Mount	AgCdO	Schrack	PB936-ND	4.58	4.02	3.63	2.87	RP310024
	SPST-NO	12 VDC	44.4	16	PC Mount	AgCdO	Schrack	PB1233-ND	4.42	3.87	3.50	2.76	RP330012
	SPST-NO	24 VDC	21.8	16	PC Mount	AgCdO	Schrack	PB937-ND	4.42	3.87	3.50	2.76	RP330024
11B	SPDT	12 VDC	44.4	12	PC Mount	AgCdO	Schrack	PB940-ND	4.51	3.95	3.58	2.82	RP418012
	SPDT	24 VDC	21.8	12	PC Mount	AgCdO	Schrack	PB941-ND	4.51	3.95	3.58	2.82	RP418024
11C	SPST-NO	5 VDC	92.5	16	PC Mount	High Inrush	Schrack	PB938-ND	6.60	5.78	5.23	4.13	RP3SL005
	SPST-NO	12 VDC	44.4	16	PC Mount	$AgSnO_2$, High Inrush	Schrack	PB1234-ND	6.60	5.78	5.23	4.13	RP3SL012
	SPST-NO	24 VDC	21.8	16	PC Mount	High Inrush	Schrack	PB939-ND	6.60	5.78	5.23	4.13	RP3SL024
—	DPDT	12 VDC	44.4	8	PC Mount	Flux Sealed	Schrack	PB942-ND	4.58	4.02	3.63	2.87	RP420012

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 14 — T9A Series

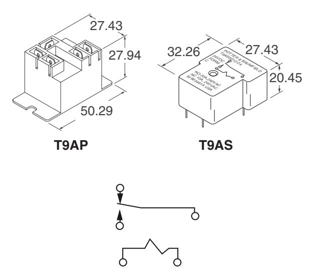

Fig. 15 — T92 Series

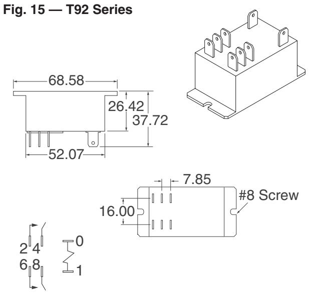

Fig. 16 — PRD Series

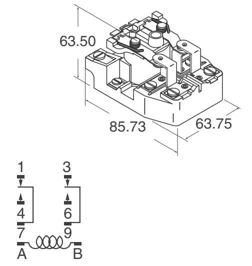

Fig. 17 — S86R, S87R Series

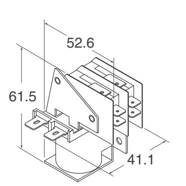

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
									1	25	50	100	
—	DPDT	24 VDC	21.8	8	PC Mount	Flux Sealed	Schrack	PB943-ND	4.58	4.02	3.63	2.87	RP420024
	DPDT	24 VDC	21.8	8	PC Mount	Flux Sealed	Schrack	PB944-ND	4.58	4.02	3.63	2.87	RP421024
	SPDT	12 VDC	44.4	16	PC Mount	Flux Sealed	Schrack	PB945-ND	4.58	4.02	3.63	2.87	RP710012
	SPDT	24 VDC	21.8	16	PC Mount	Flux Sealed	Schrack	PB946-ND	4.58	4.02	3.63	2.87	RP710024
	SPDT	12 VDC	44.4	12	PC Mount	Sealed Case	Schrack	PB947-ND	4.08	3.57	3.23	2.55	RP818012
	SPDT	24 VDC	21.8	12	PC Mount	Sealed Case	Schrack	PB948-ND	4.08	3.57	3.23	2.55	RP818024
	DPDT	12 VDC	44.4	8	PC Mount	Sealed Case	Schrack	PB949-ND	4.58	4.02	3.63	2.87	RP820012
	DPDT	24 VDC	21.8	8	PC Mount	Sealed Case	Schrack	PB950-ND	4.58	4.02	3.63	2.87	RP820024
	DPDT	12 VDC	44.4	8	PC Mount	Sealed Case	Schrack	PB951-ND	4.58	4.02	3.63	2.87	RP821012
	DPDT	24 VDC	21.8	8	PC Mount	Sealed Case	Schrack	PB952-ND	4.58	4.02	3.63	2.87	RP821024
KRP/KRPA/KBP Series — Octal Plug Termination General Purpose Relay													
12	SPST-NO	120 VAC	17.5	20	8 Pin Octal	—	Potter & Brumfield	PB626-ND◆	55.90	48.91	44.26	34.94	KRP-3AH-120
	DPDT	110 VDC	11.5	10	8 Pin Octal	—	Potter & Brumfield	PB473-ND◆	59.11	51.73	46.80	36.95	KRP-11DG-110
	DPDT	120 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB474-ND	57.24	50.09	45.32	35.78	KRP-11AG-120
	SPDT	120 VAC	17.5	10	8 Pin Octal	—	Potter & Brumfield	PB637-ND	21.65	18.95	17.14	13.53	KRPA-5AG-120
	SPDT	120 VAC	17.5	5	8 Pin Octal	Silver Contacts	Potter & Brumfield	PB837-ND◆	21.65	18.95	17.14	13.53	KRPA-5AY-120
	SPDT	24 VDC	51	10	8 Pin Octal	—	Potter & Brumfield	PB638-ND◆	19.68	17.22	15.58	12.30	KRPA-5DG-24
	SPDT	12 VDC	100	5	8 Pin Octal	Silver Contacts	Potter & Brumfield	PB838-ND◆	19.68	17.22	15.58	12.30	KRPA-5DY-12
	DPDT	12 VAC	168	10	8 Pin Octal	—	Potter & Brumfield	PB628-ND◆	14.04	12.29	11.12	8.78	KRPA-11AG-12
	DPDT	24 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB167-ND◆	14.04	12.29	11.12	8.78	KRPA-11AG-24
	DPDT	120 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB168-ND◆	15.00	13.13	11.88	9.38	KRPA-11AG-120
	DPDT	240 VAC	8.75	10	8 Pin Octal	—	Potter & Brumfield	PB629-ND◆	15.98	13.99	12.66	9.99	KRPA-11AG-240
	DPDT	12 VDC	100	10	8 Pin Octal	—	Potter & Brumfield	PB169-ND◆	14.04	12.29	11.12	8.78	KRPA-11DG-12
	DPDT	24 VDC	51	10	8 Pin Octal	—	Potter & Brumfield	PB170-ND◆	14.04	12.29	11.12	8.78	KRPA-11DG-24
	DPDT	48 VDC	26.6	10	8 Pin Octal	—	Potter & Brumfield	PB633-ND◆	15.00	13.13	11.88	9.38	KRPA-11DG-48
	DPDT	110 VDC	11.5	10	8 Pin Octal	—	Potter & Brumfield	PB476-ND◆	15.00	13.13	11.88	9.38	KRPA-11DG-110
	DPDT	24 VAC	84	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB630-ND	14.50	12.69	11.48	9.06	KRPA-11AN-24
	DPDT	120 VAC	—	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB175-ND◆	15.48	13.55	12.26	9.68	KRPA-11AN-120
	DPDT	240 VAC	8.75	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB631-ND◆	16.46	14.41	13.04	10.29	KRPA-11AN-240
	DPDT	12 VDC	100	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB634-ND◆	14.50	12.69	11.48	9.06	KRPA-11DN-12
	DPDT	24 VDC	51	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB475-ND◆	14.50	12.69	11.48	9.06	KRPA-11DN-24
	DPDT	120 VAC	17.5	5	8 Pin Octal	Silver Contacts	Potter & Brumfield	PB632-ND◆	15.00	13.13	11.88	9.38	KRPA-11AY-120
	DPDT	24 VDC	51	5	8 Pin Octal	—	Potter & Brumfield	PB635-ND◆	14.04	12.29	11.12	8.78	KRPA-11DY-24
	3PDT	24 VAC	—	10	11 Pin Octal	—	Potter & Brumfield	PB171-ND◆	15.48	13.55	12.26	9.68	KRPA-14AG-24
	3PDT	120 VAC	—	10	11 Pin Octal	—	Potter & Brumfield	PB172-ND◆	16.46	14.41	13.04	10.29	KRPA-14AG-120
	3PDT	12 VDC	100	10	11 Pin Octal	—	Potter & Brumfield	PB173-ND◆	15.74	13.78	12.47	9.84	KRPA-14DG-12
	3PDT	24 VDC	51	10	11 Pin Octal	—	Potter & Brumfield	PB174-ND◆	15.74	13.78	12.47	9.84	KRPA-14DG-24
	3PDT	110 VDC	11.5	10	11 Pin Octal	—	Potter & Brumfield	PB673-ND◆	17.71	15.50	14.03	11.07	KRPA-14DG-110
	3PDT	120 VAC	—	10	11 Pin Octal	With Indicator Light	Potter & Brumfield	PB176-ND◆	16.97	14.85	13.44	10.61	KRPA-14AN-120
	3PDT	24 VDC	51	10	11 Pin Octal	With Indicator Light	Potter & Brumfield	PB636-ND◆	16.25	14.22	12.87	10.16	KRPA-14DN-24
	DPDT	120 VAC	—	10	11 Pin Octal	Latching Relay	Potter & Brumfield	PB627-ND	185.83	162.61	147.12	116.15	KBP-11AG-120
T90 Series — Low Cost PC Mount Power Relay — RoHS Compliant													
13	SPST-NO	12 VDC	77	30	PC Mount	—	Potter & Brumfield	PB104-ND	2.52	2.21	2.00	1.58	T90N1D12-12
	SPST-NO	24 VDC	36	30	PC Mount	—	Potter & Brumfield	PB105-ND	2.57	2.25	2.04	1.61	T90N1D12-24
	SPST-NO	5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB106-ND	2.62	2.29	2.08	1.64	T90N5D12-5
	SPDT	12 VDC	77	20	PC Mount	—	Potter & Brumfield	PB107-ND	2.62	2.29	2.08	1.64	T90N5D12-12
	SPDT	24 VDC	36	20	PC Mount	—	Potter & Brumfield	PB108-ND	2.66	2.34	2.11	1.67	T90N5D12-24
	SPST-NO	5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB109-ND	2.88	2.52	2.28	1.80	T90S1D12-5
	SPST-NO	12 VDC	77	30	PC Mount	—	Potter & Brumfield	PB110-ND	2.93	2.57	2.32	1.83	T90S1D12-12
	SPST-NO	24 VDC	36	30	PC Mount	—	Potter & Brumfield	PB111-ND	2.93	2.57	2.32	1.83	T90S1D12-24
	SPDT	5 VDC	185	20	PC Mount	—	Potter & Brumfield	PB113-ND	2.88	2.52	2.28	1.80	T90S5D12-5
	SPDT	12 VDC	77	20	PC Mount	—	Potter & Brumfield	PB114-ND	2.93	2.57	2.32	1.83	T90S5D12-12
	SPDT	24 VDC	36	20	PC Mount	—	Potter & Brumfield	PB115-ND	2.95	2.59	2.34	1.85	T90S5D12-24
—	Dust Cover for Open-Style T90 Series (Snaps onto Relay)							PB216-ND	.82	.72	.65	.51	35C620A
T9A Series — Low Cost Industrial Relay — RoHS Compliant													
14	SPDT	5 VDC	185	30	PC Mount	With .250" QC Term.	Potter & Brumfield	PB1015-ND	3.00	2.63	2.38	1.88	T9AS5D22-5
	SPST-NO	12 VDC	83	30	PC Mount	—	Potter & Brumfield	PB302-ND	2.78	2.44	2.21	1.74	T9AS1D12-12
	SPST-NO	24 VDC	42	30	PC Mount	—	Potter & Brumfield	PB303-ND	2.78	2.44	2.21	1.74	T9AS1D12-24
	SPST-NO	48 VDC	20.8	30	PC Mount	—	Potter & Brumfield	PB1013-ND	3.14	2.76	2.49	1.97	T9AS1D12-48
	SPST-NO	5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB1014-ND	2.74	2.40	2.17	1.71	T9AS1D12-5
	SPST-NO	12 VDC	83	30	PC Mount	With .250" QC Terminal	Potter & Brumfield	PB304-ND	3.00	2.63	2.38	1.88	T9AS1D22-12
	SPST-NO	24 VDC	42	30	PC Mount	With .250" QC Terminal	Potter & Brumfield	PB305-ND	3.00	2.63	2.38	1.88	T9AS1D22-24
	SPST-NO	24 VDC	42	30	.250 (6.35) QC	Chassis Mount	Potter & Brumfield	PB1012-ND	3.41	2.99	2.70	2.13	T9AP1D52-24
	SPDT	12 VDC	83	20	PC Mount	—	Potter & Brumfield	PB306-ND	2.83	2.48	2.25	1.77	T9AS5D12-12
	SPDT	24 VDC	42	20	PC Mount	—	Potter & Brumfield	PB307-ND	2.83	2.48	2.25	1.77	T9AS5D12-24
	SPDT	12 VDC	83	20	PC Mount	With .250" QC Terminal	Potter & Brumfield	PB308-ND	3.00	2.63	2.38	1.88	T9AS5D22-12
	SPDT	24 VDC	42	20	PC Mount	With .250" QC Terminal	Potter & Brumfield	PB309-ND	3.00	2.63	2.38	1.88	T9AS5D22-24
	SPDT	12 VDC	83	20	.250 (6.35) QC	Chassis Mount	Potter & Brumfield	PB310-ND	3.41	2.99	2.70	2.13	T9AP5D52-12
	SPDT	24 VDC	42	20	.250 (6.35) QC	Chassis Mount	Potter & Brumfield	PB311-ND	3.41	2.99	2.70	2.13	T9AP5D52-24
T92 Series — Power Relay with Quick Connect Terminals, Sealed and Unsealed — RoHS Compliant													
15	DPST-NO	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB481-ND	10.49	9.18	8.31	6.56	T92S7D12-12
	DPST-NO	24 VDC	68	30	PC Mount	Sealed Case	Potter & Brumfield	PB482-ND	10.49	9.18	8.31	6.56	T92S7D12-24
	DPST-NO	240 VAC	—	30	PC Mount	Sealed Case	Potter & Brumfield	PB483-ND	13.06	11.43	10.34	8.16	T92S7A12-240
	DPST-NO	12 VDC	139	30	PC Mount	Unsealed Case	Potter & Brumfield	PB484-ND	9.84	8.61	7.79	6.15	T92P7D12-12
	DPST-NO	24 VDC	68	30	PC Mount	Unsealed Case	Potter & Brumfield	PB485-ND	9.84	8.61	7.79	6.15	T92P7D12-24
	DPST-NO	12 VDC	139	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB298-ND	10.49	9.18	8.31	6.56	T92S7D22-12
	DPST-NO	12 VDC	139	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB486-ND	9.84	8.61	7.79	6.15	T92P7D22-12
	DPST-NO	24 VDC	68	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB299-ND	10.49	9.18	8.31	6.56	T92S7D22-24
	DPST-NO	24 VDC	68	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB1008-ND	9.84	8.61	7.79	6.15	T92P7D22-24
	DPST-NO	110 VDC	115	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB1011-ND	11.88	10.40	9.41	7.43	T92S7D22-110
	DPST-NO	24 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB487-ND	10.32	9.03	8.17	6.45	T92P7A22-24
	DPST-NO	24 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB488-ND	11.18	9.79	8.86	6.99	T92S7A22-24

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

Dimensions in mm

Fig. 18 — S89R Series

Potter & Brumfield S89 Series relay features a simple pulse latch/unlatch function (impulse) without the need to reverse polarity or continuously energize the coil.

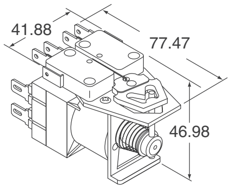

Fig. 19 — P25, P30, P40 Series

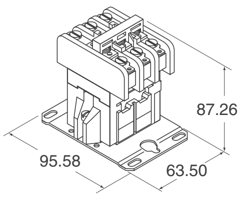

Fig. 20 — VF4 Style Automotive

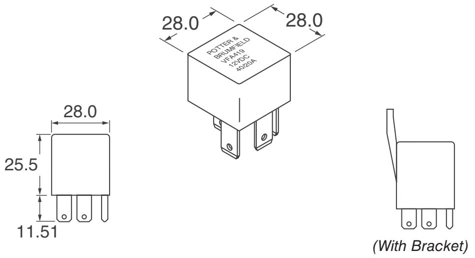

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
15	DPST-NO	120 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB301-ND	11.18	9.79	8.86	6.99	T92S7A22-120
	DPST-NO	120 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB489-ND	10.32	9.03	8.17	6.45	T92P7A22-120
	DPST-NO	240 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB736-ND	12.60	11.03	9.98	7.88	T92S7A22-240
	DPST-NO	240 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB738-ND	11.78	10.32	9.33	7.37	T92P7A22-240
	DPST-NO	12 VDC	139	30	Screw Terminal	Unsealed Case	Potter & Brumfield	PB1009-ND	11.76	10.29	9.31	7.35	T92P7D52-12
	DPST-NO	120 VAC	68	30	Screw Terminal	Unsealed Case	Potter & Brumfield	PB1007-ND	12.58	11.01	9.96	7.86	T92P7A52-120
	DPDT	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB351-ND	11.26	9.85	8.92	7.04	T92S11D12-12
	DPDT	24 VDC	68	30	PC Mount	Sealed Case	Potter & Brumfield	PB352-ND	11.26	9.85	8.92	7.04	T92S11D12-24
	DPDT	110 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB1010-ND	12.82	11.22	10.15	8.01	T92S11D12-110
	DPDT	12 VDC	139	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB349-ND	10.44	9.14	8.27	6.53	T92P11D22-12
	DPDT	12 VDC	139	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB490-ND	11.26	9.85	8.92	7.04	T92S11D22-12
	DPDT	24 VDC	68	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB350-ND	10.44	9.14	8.27	6.53	T92P11D22-24
	DPDT	24 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB300-ND	12.70	11.11	10.06	7.94	T92S11A22-24
	DPDT	24 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB739-ND	11.57	10.13	9.16	7.23	T92P11A22-24
	DPDT	24 VDC	68	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB491-ND	11.26	9.85	8.92	7.04	T92S11D22-24
	DPDT	120 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB597-ND	12.70	11.11	10.06	7.94	T92S11A22-120
	DPDT	120 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB492-ND	11.57	10.13	9.16	7.23	T92P11A22-120
	DPDT	240 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB737-ND	13.94	12.21	11.04	8.72	T92S11A22-240
	DPDT	240 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB348-ND	13.06	11.43	10.34	8.16	T92P11A22-240
PRD Series — Heavy Duty Power Relay													
16	SPST-NO	120 VAC	—	25	Screw	Double Make Contact	Potter & Brumfield	PB590-ND◆	22.03	19.28	17.45	13.77	PRD-3AY0-120
	SPDT	12 VAC	—	25	Screw	—	Potter & Brumfield	PB493-ND	24.48	21.42	19.38	15.30	PRD-5DY0-12
	SPDT	24 VAC	—	25	Screw	—	Potter & Brumfield	PB494-ND	26.02	22.77	20.60	16.26	PRD-5AY0-24
	SPDT	120 VAC	—	25	Screw	—	Potter & Brumfield	PB495-ND	25.27	22.12	20.01	15.80	PRD-5AY0-120
	DPST-NO	120 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB496-ND◆	27.34	23.92	21.65	17.09	PRD-7AY0-120
	DPST-NO	120 VAC	—	25	Screw	Silver Cadmium Contact	Potter & Brumfield	PB591-ND◆	27.19	23.80	21.53	17.00	PRD-7AG0-120
	DPST-NO	24 VDC	84	25	Screw	Silver Contact	Potter & Brumfield	PB497-ND	26.47	23.17	20.96	16.55	PRD-7DY0-24
	DPDT	12 VDC	169	25	Screw	—	Potter & Brumfield	PB498-ND◆	33.17	29.03	26.26	20.73	PRD-11DY0-12
	DPDT	24 VDC	84	25	Screw	—	Potter & Brumfield	PB499-ND◆	33.17	29.03	26.26	20.73	PRD-11DY0-24
	DPDT	24 VDC	84	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB500-ND◆	36.91	32.30	29.23	23.07	PRD-11DH0-24
	DPDT	24 VDC	84	30	Screw	—	Potter & Brumfield	PB501-ND◆	33.10	28.96	26.21	20.69	PRD-11DG0-24
	DPDT	110 VDC	18.2	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB502-ND◆	40.27	35.24	31.89	25.17	PRD-11DH0-110
	DPDT	24 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB588-ND◆	33.94	29.70	26.87	21.21	PRD-11AY0-24
	DPDT	120 VAC	—	30	Screw	Silver Cadmium Contact	Potter & Brumfield	PB503-ND◆	33.79	29.57	26.76	21.12	PRD-11AG0-120
	DPDT	120 VAC	—	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB504-ND◆	37.82	33.10	29.95	23.64	PRD-11AH0-120
	DPDT	120 VAC	—	25	Screw	—	Potter & Brumfield	PB505-ND	33.94	29.70	26.87	21.21	PRD-11AY0-120
	DPDT	240 VAC	—	25	Screw	—	Potter & Brumfield	PB506-ND	34.51	30.20	27.33	21.57	PRD-11AY0-240
—	Metal Dust Cover for all PRD Relays, Gray Finish							PB646-ND◆	23.78	20.82	18.83	14.87	35D013
S86R, S87R Series — Industrial and S89R Series — Impulse Latching Relay													
17	DPDT	120 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB510-ND	37.49	32.81	29.68	23.43	S86R11A1B1D1120
	DPDT	120 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB511-ND	35.59	31.15	28.18	22.25	S87R11A2B1D1120
18	DPDT	12 VDC	533	15	.187 (4.75) QC	Impulse	Potter & Brumfield	PB513-ND◆	45.38	39.72	35.93	28.37	S89R11DAC1-12
	DPDT	120 VAC	—	15	.187 (4.75) QC	Impulse	Potter & Brumfield	PB585-ND	47.64	41.69	37.72	29.78	S89R11AAC1-120
	DPDT	120 VAC	—	15	8 Pin Octal	Impulse	Potter & Brumfield	PB515-ND◆	54.58	47.76	43.21	34.11	S89R11APP1-120
P25, P30, P40 Series — Heavy Duty Contactor Relay — RoHS Compliant													
19	3PST-NO	24 VDC	180	25	.250 (6.35) QC	—	Potter & Brumfield	PB516-ND	82.10	71.85	65.00	51.32	P25P42D22P1-24
	3PST-NO	24 VDC	286	30	.250 (6.35) QC	—	Potter & Brumfield	PB517-ND	105.62	92.43	83.62	66.02	P30P42D12P1-24
	3PST-NO	24 VDC	286	40	.250 (6.35) QC	—	Potter & Brumfield	PB518-ND	111.10	97.21	87.96	69.44	P40P42D12P1-24
ISO Automotive Relay (VF4 Style) — RoHS Compliant													
20	SPST-NO	12 VDC	133.3	30	.250 (6.35) QC	Standard Plug-In	Tyco Electronics	PB679-ND	2.38	2.08	1.89	1.49	1432782-1
	SPST-NO	12 VDC	133.3	30	.250 (6.35) QC	With Metal Bracket	Tyco Electronics	PB685-ND	2.38	2.08	1.89	1.49	1432772-1
	SPST-NO	12 VDC	133.3	40	PC Mount	Unsealed Case	Tyco Electronics	PB1039-ND	2.38	2.08	1.89	1.49	1432866-1
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	Standard Plug-In	Tyco Electronics	PB680-ND	2.38	2.08	1.89	1.49	1432785-1
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	With Internal Diode	Tyco Electronics	PB682-ND	2.45	2.15	1.94	1.53	1432790-1
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	With Metal Bracket	Tyco Electronics	PB686-ND	4.99	4.37	3.96	3.12	1432791-1
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	With Built-In Resistor	Tyco Electronics	PB681-ND	2.45	2.15	1.94	1.53	1432786-1
	SPDT	12 VDC	133.3	40	PC Mount	Unsealed Case	Tyco Electronics	PB1040-ND	2.38	2.08	1.89	1.49	1432868-1
	SPDT	24 VDC	66	30	.250 (6.35) QC	With Internal Diode	Tyco Electronics	PB684-ND	2.57	2.25	2.04	1.61	1432795-1
	SPDT	24 VDC	66	30	.250 (6.35) QC	With Metal Bracket	Tyco Electronics	PB687-ND	2.64	2.31	2.09	1.65	1432797-1
	SPDT	24 VDC	66	40	PC Mount	Plated Brass Terminals	Tyco Electronics	PB1041-ND	2.59	2.27	2.06	1.62	1432870-1
	SPDT	24 VDC	66	40	PC Mount	Sealed Case	Tyco Electronics	PB1042-ND	2.64	2.31	2.09	1.65	1432871-1
—	VF4 Auto Relay Socket, PCB Mount							PB232-ND	2.14	1.87	1.70	1.34	VCF4-1000
	VF4 Auto Relay Socket (Wire Harness Style)							PB316-ND	.82	.72	.65	.51	VCF4-1001
	VF4 Auto Relay Socket (Wire Harness Style with Molded Bracket)							PB714-ND	4.92	4.31	3.90	3.08	VCF4-1002
	VF4 Auto Relay Socket (Shrouded Dust Cover Type)							PB715-ND	2.78	2.44	2.21	1.74	VCF4-1003
	VF4 Auto Crimp Terminal 12-16AWG for PB316-ND (Wire Harness Connector)							A27929CT-ND	15.47/100				60249-1
	VF4 Auto Crimp Terminal 12-16AWG for PB316-ND (Wire Harness Connector)							A27929TR-ND	696.20/9,000				60249-1
	VF4 Auto Crimp Terminal 14-18AWG for PB316-ND (Wire Harness Connector) and VF7 Coil Contacts							A27926CT-ND	15.32/100				42281-1
	VF4 Auto Crimp Terminal 14-18AWG for PB316-ND (Wire Harness Connector) and VF7 Coil Contacts							A27926TR-ND	758.39/11,000				42281-1
	VF4 Auto Crimp Terminal 10-12AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB785CT-ND	.26	.24	.21	.17	26A1348C
	VF4 Auto Crimp Terminal 10-12AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB785TR-ND	262.20/1,900				26A1348C
	VF4 Auto Crimp Terminal 14-16AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB786CT-ND	.26	.24	.21	.17	26A1348B
	VF4 Auto Crimp Terminal 14-16AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB786TR-ND	276.00/2,000				26A1348B
ISO Automotive Connectors (VF7 Style) High Capacity — RoHS Compliant													
—	High Capacity Auto Relay Socket (Wire Harness Style)							PB716-ND	1.06	.93	.84	.66	VCF7-1000
	High Capacity Auto Crimp Terminal 10-12AWG for High Capacity Sockets (For Relay Contacts Only)							A32509CT-ND	53.46/100				280756-4
	High Capacity Auto Crimp Terminal 10-12AWG for High Capacity Sockets (For Relay Contacts Only)							A32509TR-ND	534.60/2,000				280756-4

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

Relay Sockets and Accessories

Dimensions in mm

Fig. 1

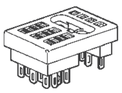

Solder Terminal Socket

Fig. 2

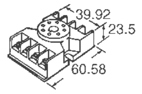

Panel Mount Socket
(KRPA shown)

Fig. 3

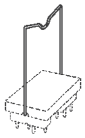

Wire Hold
Down Spring

Fig. 4

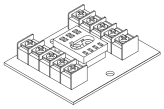

Relay Mount Board

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each				Tyco Electronics Part No.
				1	25	50	100	
1	Solder Terminal Socket, DPDT	K10	PB331-ND	2.18	1.92	1.73	1.37	27E488
2	DIN Rail Screw Mount Socket, DPDT	K10	PB332-ND	6.67	5.84	5.29	4.17	27E895
	Chassis Mount Screw Socket, DPDT	K10	PB642-ND	6.41	5.61	5.08	4.01	27E487
3	Wire Hold Down Spring, DPDT for DIN Rail Socket	K10	PB333-ND	.29	.26	.23	.18	20C297
1	PCB Mount Socket, DPDT	K10	PB334-ND	2.30	2.02	1.83	1.44	27E489
	Solder Terminal Socket, DPDT	R10	PB132-ND	1.66	1.45	1.32	1.04	27E125
	Solder Terminal Socket, 4PDT	R10	PB133-ND	1.82	1.60	1.45	1.14	27E126
	PCB Mount Socket, DPDT	R10	PB134-ND	1.56	1.37	1.24	.98	27E128
	PCB Mount Socket, 4PDT	R10	PB135-ND	1.82	1.60	1.45	1.14	27E129
4	Relay Mount Board with Screw Terminals, DP	R10	PB640-ND	17.47	15.29	13.84	10.92	27E460
	Relay Mount Board with Screw Terminals, 4P	R10	PB674-ND	21.89	19.16	17.33	13.68	27E461
	Relay Mount Board with Screw Terminals, 6P	R10	PB641-ND	30.65	26.82	24.27	19.16	27E462
1	R10 Series Bracket Mount Socket with grounding, 4 Pole	R10	PB800-ND	2.30	2.02	1.83	1.44	27E152
	R10 Series Solder Terminal Socket without grounding, DP	R10	PB801-ND	1.46	1.29	1.16	.92	27E162
	R10 Series Solder Terminal Socket without grounding, Solder, 4 Pole	R10	PB802-ND	1.82	1.60	1.45	1.14	27E163
	R10 Series Socket with grounding, PC Staggered Terminal, 4 Pole	R10	PB804-ND	1.82	1.60	1.45	1.14	27E194
	R10 Series Socket without grounding, PC Staggered Terminal, 4 Pole	R10	PB806-ND	1.82	1.60	1.45	1.14	27E213
	R10 Series Bracket Mount Socket with grounding, 2 Pole	R10	PB808-ND	2.35	2.06	1.87	1.47	27E317
	R10 Series In-Line Socket without grounding, DP-2P	R10	PB809-ND	1.46	1.29	1.16	.92	27E342
	R10 Series Flange Mount Socket with grounding, DP	R10	PB811-ND	2.14	1.87	1.70	1.34	27E446
	R10 Series In-Line Socket without grounding, 6 Pole	R10	PB812-ND	2.26	1.98	1.79	1.41	27E630
3	Relay Anchor Clip for 27E893	R10	PB793-ND	.72	.63	.57	.45	20C330
	Wire Hold Down Spring, DPDT	R10	PB136-ND	.29	.26	.23	.18	20C249
	Wire Hold Down Spring, 4PDT	R10	PB137-ND	.29	.26	.23	.18	20C250
	Wire Hold Down Strap (for P.C. Socket Only), all poles	R10	PB138-ND	.29	.26	.23	.18	20C259
	R10 Series Relay Hold Down Spring, 8P	R10	PB790-ND	.43	.38	.35	.27	20C266
	R10S Series Relay Hold Down Spring, DP	R10S	PB791-ND	.72	.63	.57	.45	20C300
1	Solder Terminal Socket, 4PDT	KHA/PT/PTH	PB144-ND	1.78	1.56	1.41	1.11	27E006
	PCB Mount Socket without grounding, DP-DPDT	KHA/PT/PTH	PB807-ND	1.46	1.29	1.16	.92	27E220
	PCB Mount Socket, 4PDT	KHA/PT/PTH	PB145-ND	1.66	1.45	1.32	1.04	27E007
3	Wire Hold Down Spring, KHA-4PDT/K10-DPDT	KHA/K10	PB146-ND	.29	.26	.23	.18	20C217
2	Chassis Mount Screw Mount Socket, 4PDT	KHA	PB147-ND	12.50	10.95	9.90	7.82	27E166
	DIN Rail Mount Screw Terminal Socket, 4PDT	KHA	PB148-ND	9.89	8.66	7.83	6.18	27E894
1	PCB Terminal Socket, 4PDT	KH	PB523-ND	1.44	1.26	1.14	.90	27E023
2	Chassis Mount Screw Terminal Socket, all poles	KUP	PB165-ND	8.33	7.29	6.60	5.21	27E121
	DIN Rail Mount Screw Terminal Socket, all poles	KUP	PB166-ND	9.94	8.70	7.87	6.21	27E893
4	Relay Mount Board with Screw Terminals, 4P	KUP	PB643-ND	19.25	16.85	15.24	12.03	27E867
	Hard Mount Socket with Solder Terminals, SP-3P	KUP	PB639-ND	2.18	1.92	1.73	1.37	27E043
1	PCB Terminal Socket with Mounting Ears, DP, 3P	KU	PB522-ND	2.59	2.27	2.06	1.62	27E046
3	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB607-ND	.72	.63	.57	.45	20C228
	Wire Hold Down Spring, Snap Type for Hard Mount Sockets	KUP	PB608-ND	.29	.26	.23	.18	20C254
	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB609-ND	.43	.38	.35	.27	20C314
2	8-Pin Octal Screw Terminal Socket, all poles	KRPA	PB177-ND	5.83	5.11	4.62	3.65	27E122
	11-Pin Octal Screw Terminal Socket, all poles	KRPA	PB178-ND	6.46	5.65	5.12	4.04	27E123
—	Spacer for KRPA Series Relay	KRPA	PB179-ND	1.34	1.18	1.07	.84	21B212
2	DIN Rail Mount Socket, DPDT	KRPA	PB520-ND	6.26	5.49	4.96	3.92	27E891
	DIN Rail Mount Socket, 3PDT	KRPA	PB521-ND	9.43	8.26	7.47	5.90	27E892
3	Wire Hold Down Spring Screw Attach Type	KRPA	PB644-ND	2.16	1.89	1.71	1.35	20C176
	Wire Hold Down Spring for 27E891 and 27E892	KRPA	PB645-ND	.29	.26	.23	.18	20C318
	Relay Hold Down Spring for KRP3 Series	KRP3	PB787-ND	5.06	4.44	4.01	3.17	20C206
	Relay Hold Down Spring for KRP3 and KAP Series	KRPA	PB788-ND	1.44	1.26	1.14	.90	20C247
	Relay Hold Down Spring for KRPA Series Sockets	KRPA	PB792-ND	.43	.38	.35	.27	20C317
	Relay Hold Down Clip for KRP Sockets	KRP	PB794-ND	2.16	1.89	1.71	1.35	20C419
—	Plastic Twist Type Mount Clip	KRPA	PB796-ND	.84	.74	.67	.53	24A072
3	Relay Hold Down Spring for 27E487 and 27E895	K10	PB795-ND	.72	.63	.57	.45	20C426
—	KU Series Relay Socket without grounding, 1-3 Pole	KU	PB810-ND	3.48	3.05	2.76	2.18	27E396
	K10 Series Mounting Strip, 8 Pole	K10	PB815-ND	18.41	16.11	14.58	11.51	37D633
	DIN Rail Track, 36" (91.44cm) for DIN Rail Sockets, Aluminum	ALL	PB345-ND	12.86	11.26	10.19	8.04	24A110
	Hold Down Clip, for use with DIN Rail	ALL	PB346-ND	2.16	1.89	1.71	1.35	24A071
	Plastic Spacer for DIN Rail Sockets	ALL	PB347-ND	1.70	1.50	1.35	1.07	40G432

Tyco Electronics
Authorized Distributor

I/O Modules

Features: • Industry standard package and pin-out • Color coded by function • 4,000Vrms optical isolation • High immunity to false operation • Output modules can be controlled from sinking or sourcing logic

Dim. in Inches

Input Voltage	Input I (mA)	Output Current @ Output Voltage	Package Color	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
90 ~ 140VAC/DC	6	50mA @ 30VDC	Yellow	20	30	PB537-ND	15.29	13.38	12.11	IAC-5
3.3 ~ 32VDC	1 ~ 20	50mA @ 30VDC	White	1	1	PB538-ND◆	15.29	13.38	12.11	IDC-5
3 ~ 32VDC	34	50mA @ 20 ~ 30VDC	White	1	1	PB703-ND◆	16.10	14.10	12.75	IDC-24
3 ~ 8VDC	1 ~ 20	3A @ 24 ~ 280VAC	Black	8.3	8.3	PB539-ND◆	15.29	13.38	12.11	OAC-5
3 ~ 8VDC	1 ~ 20	3A @ 24 ~ 280VAC	Black	8.3	8.3	PB698-ND◆	15.29	13.38	12.11	OAC-5A
3 ~ 8VDC	1 ~ 20	5A @ 24 ~ 280VAC	Black	8.3	8.3	PB701-ND◆	18.46	16.15	14.62	OAC-5H
3 ~ 8VDC	1 ~ 20	3A @ 24 ~ 280VAC	Black Mini	8.3	8.3	PB702-ND◆	15.31	13.40	12.13	OACM-5
3 ~ 8VDC	1 ~ 20	5A @ 24 ~ 280VAC	Black Mini	8.3	8.3	PB705-ND◆	18.46	16.15	14.62	OACM-5H
9 ~ 18VDC	1 ~ 13	3A @ 24 ~ 280VAC	Black	8.3	8.3	PB700-ND◆	16.15	14.14	12.79	OAC-15
18 ~ 32VDC	1 ~ 13	3A @ 24 ~ 280VAC	Black	8.3	8.3	PB699-ND◆	15.74	13.78	12.47	OAC-24
3 ~ 8VDC	1 ~ 20	3A @ 3 ~ 60VDC	Red	1	0.75	PB541-ND	15.29	13.38	12.11	ODC-5
9 ~ 18VDC	1 ~ 13	3A @ 3 ~ 60VDC	Red	0.10	0.75	PB704-ND◆	16.18	14.16	12.81	ODC-15
18 ~ 32VDC	1 ~ 13	3A @ 3 ~ 60VDC	Red	1	0.75	PB540-ND	15.74	13.78	12.47	ODC-24
I/O Mounting Board 4 Position, Negative True Logic - Screw Terminal						PB696-ND◆	50.02	43.77	39.60	2IO4A
I/O Mounting Board 4 Position, Negative or Positive True Logic - Screw Terminal						PB695-ND◆	50.02	43.77	39.60	2IO4B
I/O Mounting Board 16 Position, Negative or Positive True Logic - Screw Terminal						PB697-ND◆	190.39	166.60	150.73	2IO16B

◆ *RoHS Compliant*

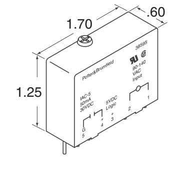

Solid State Relays

SSR, SSRT, SSRD and SSRQ Series: Potter & Brumfield Models SSR are SPST "Hockey Puck" style solid state relays for general power switching applications. These feature a dual, back to back SCR, Zero-Cross switching output for most inductive and high inrush loads. Parts ending in "R" are random turn-on outputs for phase control applications. SSRD (Dual) and SSRQ (Quad) are multiple output relays where each output is controlled separately. SSRT are SPST "Hockey Puck" style relays with snubber less Triac Outputs for inductive switching and high inrush applications. Enhanced noise immunity (designed to meet level 3 requirements of European EMC Directive). Includes LED indicator and floating terminal design.

SSRA, SSRC, SSRF, SSRK and SSRM Series: Models are available in zero voltage turn-on and random voltage turn-on versions, permitting users to select a relay with the preferred switching characteristics for a given application. Also, they are available in SIP PC board packages or DIN-rail/panel mount packages.

Dim. in Inches (mm)

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each 1	25	50	Tyco Electronics Part No.
				SSR Series — SCR Output						
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.1 ~ 25	PB545-ND◆	47.69	41.73	37.76	SSR-240D25
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.1 ~ 25	PB546-ND◆	52.06	45.55	41.22	SSR-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.1 ~ 50	PB547-ND	69.50	60.82	55.03	SSR-240D50
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.1 ~ 125	PB544-ND	126.96	111.09	100.51	SSR-240D125
	3 ~ 32VDC	3VDC	1VDC	48 ~ 660VAC	0.1 ~ 125	PB707-ND◆	106.39	93.10	84.23	SSR-480D125
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	0.1 ~ 25	PB542-ND◆	56.45	49.40	44.69	SSR-240A25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	0.1 ~ 50	PB543-ND◆	78.26	68.49	61.96	SSR-240A50
				SSRT Series — Triac Output						
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.05 ~ 10	PB553-ND◆	36.96	32.34	29.26	SSRT-240D10
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.05 ~ 25	PB554-ND	43.39	37.97	34.36	SSRT-240D25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	0.1 ~ 10	PB706-ND◆	41.26	36.10	32.67	SSRT-240A10
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	0.05 ~ 25	PB552-ND	52.06	45.55	41.22	SSRT-240A25
				SSRD Series — Dual Output						
2	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.05 ~ 25	PB548-ND	98.47	86.17	77.96	SSRD-240D25
	4 ~ 15VDC	4VDC	1VDC	24 ~ 240VAC	0.05 ~ 25	PB549-ND	93.36	81.69	73.91	SSRD-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	0.05 ~ 40	PB550-ND	108.55	94.99	85.94	SSRD-240D40
				SSRQ Series — Quad AC Output						
2	4 ~ 15VDC	4VDC	1VDC	24 ~ 280VAC	0.05 ~ 20	PB551-ND	139.01	121.64	110.05	SSRQ-240D20
				NEW! SSRA Series — SCR Output — RoHS Compliant NEW!						
3	4 ~ 10VDC	4VDC	1VDC	24 ~ 280VAC	0.06 ~ 2	PB1241-ND	19.08	16.70	15.11	SSRA-240D2
				NEW! SSRC Series — SCR Output — RoHS Compliant NEW!						
4	3 ~ 15VDC	3VDC	1VDC	12 ~ 280VAC	0.06 ~ 5	PB1242-ND	19.20	16.80	15.20	SSRC-240D5
				NEW! SSRF Series — SCR Output — RoHS Compliant NEW!						
5	3 ~ 15VDC	3VDC	1VDC	12 ~ 280VAC	0.06 ~ 10	PB1243-ND	35.09	30.71	27.78	SSRF-240D25
				NEW! SSRK Series — SCR Output — RoHS Compliant NEW!						
6	4 ~ 32VDC	4VDC	1VDC	48 ~ 660VAC	0.15 ~ 30	PB1244-ND	101.52	88.83	80.37	SSRK-600D30
				NEW! SSRM Series — SCR Output — RoHS Compliant NEW!						
7	4 ~ 32VDC	4VDC	1VDC	48 ~ 660VAC	0.15 ~ 45	PB1245-ND	133.63	116.93	105.80	SSRM-600D45
	4 ~ 32VDC	4VDC	1VDC	48 ~ 660VAC	0.25 ~ 65	PB1246-ND	186.43	163.13	147.60	SSRM-600D65

◆ *RoHS Compliant*

Fig. 1

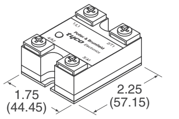

Fig. 2

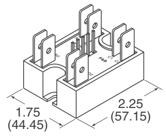

Fig. 3 ***NEW!***

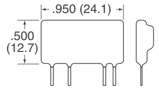

Fig. 4 ***NEW!***

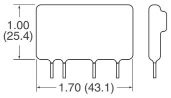

Fig. 5 ***NEW!***

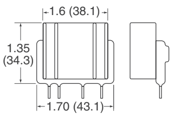

Fig. 6 ***NEW!***

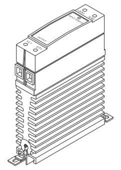

Fig. 7 ***NEW!***

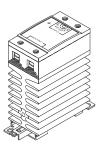

Safety Relays

Safety-implemented circuits must be control reliable as mandated in the U.S. and European safety standards. Safety relays have the function to positively isolate safety circuits of emergency shut-off, machine control, elevator and escalator controls, light barrier control, furnaces, medical apparatus or any application requiring redundant shutoff safety requirements. These relays are designed with force guided contacts where in the event of a fault (1 contact welds closed), the second contact must carry out the switch off condition.

Dim. in mm

Fig. 1

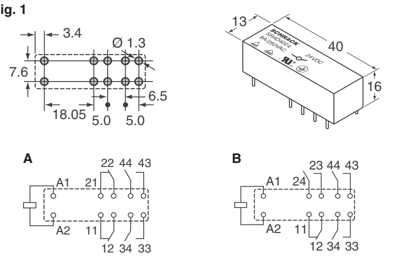

Fig. 2

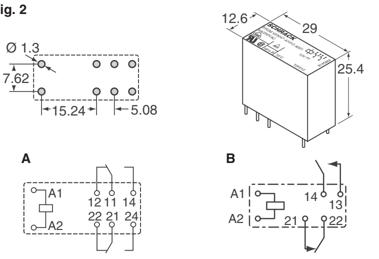

Fig. 3

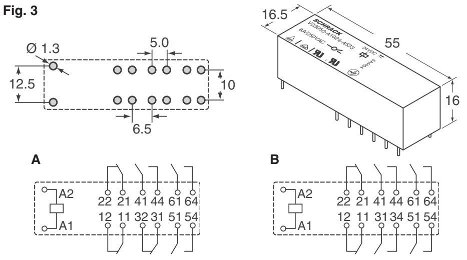

Fig.	Contact Arrangement	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type	Forcibly Guided Contacts	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Tyco Electronics Part No.
						SR4 D/M Series							
1A	4PST	5VDC	161	8	PC Mount	2-NO + 2-NC	Schrack	PB998-ND	20.09	17.58	15.91	12.56	SR4D4005
1A	4PST	12VDC	66.6	8	PC Mount	2-NO + 2-NC	Schrack	PB999-ND	20.09	17.58	15.91	12.56	SR4D4012
1A	4PST	24VDC	33.3	8	PC Mount	2-NO + 2-NC	Schrack	PB661-ND	19.99	17.50	15.83	12.50	SR4D4024
1B	4PST	12VDC	66.6	8	PC Mount	3-NO + 1-NC	Schrack	PB1000-ND	23.28	20.37	18.43	14.55	SR4M4012
1B	4PST	24VDC	33.3	8	PC Mount	3-NO + 1-NC	Schrack	PB662-ND	19.80	17.33	15.68	12.38	SR4M4024
						V23047 Series — SR2M Sealed, Single Relay							
2A	DPDT	12VDC	60.0	6	PC Mount	4	Schrack	PB675-ND	7.46	6.54	5.91	4.67	V23047-A1012-A501
2A	DPDT	24VDC	30.0	6	PC Mount	4	Schrack	PB659-ND	7.46	6.54	5.91	4.67	V23047-A1024-A501
2B	DPST	24VDC	30.0	6	PC Mount	2	Schrack	PB660-ND	7.25	6.35	5.74	4.53	V23047-A1024-A511
						V23050 Series — SR6 Sealed, Single Relay							
3A	6PST	24VDC	50.0	8	PC Mount	6	Schrack	PB663-ND	21.48	18.80	17.01	13.43	V23050-A1024-A533
3B	6PST	24VDC	50.0	8	PC Mount	6	Schrack	PB664-ND	21.74	19.03	17.22	13.59	V23050-A1024-A542

Input/Output Modules and Racks

Fig. 1 — Standard

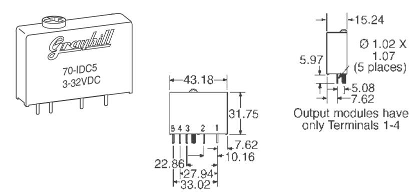

Fig. 2 — Mounting Board
(70RCK4 Board Shown)

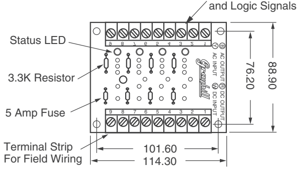
9 Position Terminal Strip For Ground and Logic Signals
Status LED
3.3K Resistor
5 Amp Fuse
Terminal Strip For Field Wiring
76.20
88.90
101.60
114.30

Fig. 3 — Mini

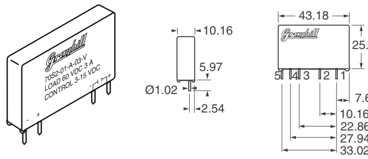

Fig. 4

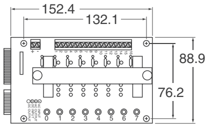

Fig. 5 — G5 Full Size

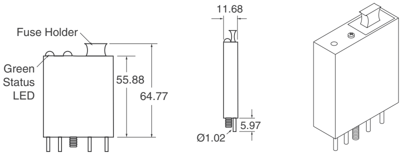

Fig. 6

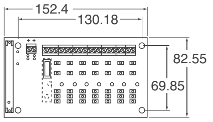

Our line of pluggable input and output modules provide a low cost, versatile method for interconnecting real world analog and digital signals to data acquisition, monitoring, or control systems. All modules provide an optically isolated barrier between sensitive microprocessor or digital logic circuits and field power devices. The case color of these modules identify their function: Digital AC Output Module = Black Case; Digital DC Output Module = Red Case; Digital AC Input Module = Yellow Case; Digital DC Input Module = White Case; Analog Output Module = Orange Case; Analog Input Module = Blue Case. **FEATURES:** • Transient protection meets the requirements of IEEE472 "Surge Withstanding Capability Test" • 4000VAC Optical Isolation **GENERAL CHARACTERISTICS: • Operating Temperature Range:** -40°C ~ 100°C • **UL File No.:** E58632 • **CSA File No.:** L38763 **GENERAL SPECIFICATIONS: • Operating Temperature:** 0°C ~ 60°C • **Short Circuit Protection:** Output signal can be shorted to ground without damaging the module ***Voltage Output Modules:*** • **Supply Voltage:** 4.5 ~ 5.5VDC • **Supply Current @5 VDC:** 140 mA maximum ***Current Output Modules:*** • **Supply Voltage:** 4.5 ~ 5.5VDC • **Supply Current @5 VDC:** 240 mA maximum • **Output Current (Sourcing):** 20mA maximum ***Voltage Input Modules:*** • **Supply Voltage:** 4.5 ~ 5.5VDC • **Supply Current @ 5VDC:** 150 mA maximum • **Output Frequency:** 14.4 ~ 72.0 KHz squarewave • **Squarewave Duty Cycle:** 40% ~ 60% • **Accuracy:** ±0.1% (DC Version), ±0.3% (AC Versions)

Fig.	INPUT CIRCUIT		OUTPUT CIRCUIT		Load Current (Rms)	T on Time	T off Time	Digi-Key Part No.	Price Each			Grayhill Part No.
	Nominal Voltage	Range	Nominal Voltage	Range					1	10	100	
Digital I/O Modules — Standard Size												
1	5 VDC	2.5 ~ 10	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7018-ND	9.59	8.64	8.16	70-OAC5
	5 VDC	2.5 ~ 10	240 VAC	24 ~ 280	.030 ~ 3.5A	8.3ms	8.3ms	GH7413-ND	10.61	9.55	9.02	70-OAC5A
	24 VDC	15 ~ 30	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7434-ND	9.59	8.64	8.16	70-OAC24
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH7019-ND	9.59	8.64	8.16	70-ODC5
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7414-ND	16.60	14.94	14.11	70-ODC5R
	15 VDC	10 ~ 18	60 VDC	3 ~ 60	.02 ~ 3.5A	20µs	50µs	GH7415-ND	9.59	8.64	8.16	70-ODC15
	24 VDC	15 ~ 30	60 VDC	3 ~ 60	.02 ~ 3.5A	20µs	50µs	GH7416-ND	9.59	8.64	8.16	70-ODC24
	5 VDC	3 ~ 6	120 VAC	90 VAC~140 VDC	1 ~ 50mA	20ms	20ms	GH7020-ND	9.59	8.64	8.16	70-IAC5
	24 VDC	15 ~ 30	120 VAC	90 VAC~140 VDC	1 ~ 50mA	20ms	20ms	GH7418-ND	9.59	8.64	8.16	70-IAC24
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	.20ms	.40ms	GH7021-ND	9.59	8.64	8.16	70-IDC5
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	.05ms	.075ms	GH7417-ND	9.59	8.64	8.16	70-IDC5B
Mounting Boards for Standard Modules												
2	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative Logic Only							GH7028-ND	20.43	19.42	—	70RCK4
	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative or Positive Logic							GH3035-ND	21.50	20.43	—	70RCK4R
—	Mounting Board for 8 Standard I/O Modules - Card Edge Connector Only							GH7029-ND	40.51	38.48	—	70RCK8
	Mounting Board for 8 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH3044-ND	44.44	42.22	—	70RCK8-HL
	Mounting Board for 16 Standard I/O Modules - Card Edge Connector Only							GH7031-ND	65.59	62.31	—	70RCK16
	Mounting Board for 16 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH3045-ND	69.53	66.06	—	70RCK16-HL
	Mounting Board for 24 Standard I/O Modules - Card Edge Connector Only							GH3007-ND	108.95	103.51	—	70RCK24
	Mounting Board for 24 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH7435-ND	113.26	107.60	—	70RCK24-HL
Digital I/O Modules — Miniature Size												
3	5 VDC	2.5 ~ 10	120 VAC	24 ~ 140	.030 ~ 3A	8.3ms	8.3ms	GH7022-ND	9.59	8.64	8.16	70M-OAC5
	5 VDC	2.5 ~ 10	240 VAC	24 ~ 280	.030 ~ 3A	8.3ms	8.3ms	GH7023-ND	10.61	9.55	9.02	70M-OAC5A
	24 VDC	15 ~ 30	120 VAC	24 ~ 140	.030 ~ 3A	8.3ms	8.3ms	GH7419-ND	9.59	8.64	8.16	70M-OAC24
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7024-ND	9.59	8.64	8.16	70M-ODC5
	5 VDC	2.5 ~ 9	200 VDC	4 ~ 200	.020 ~ 3A	75µs	750µs	GH7420-ND	16.16	14.55	13.74	70M-ODC5A
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3A	75µs	500µs	GH7421-ND	9.59	8.64	8.16	70M-ODC5B
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7422-ND	18.09	16.28	15.38	70M-ODC5R
	15 VDC	10 ~ 18	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7025-ND	9.59	8.64	8.16	70M-ODC15
	24 VDC	15 ~ 30	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7436-ND	9.59	8.64	8.16	70M-ODC24
	5 VDC	3 ~ 6	120 VAC	90 VAC ~ 140 VDC	1 ~ 50mA	20ms	20ms	GH7026-ND	9.59	8.64	8.16	70M-IAC5
	5 VDC	3 ~ 6	240 VAC	180 VAC ~ 280 VDC	1 ~ 50mA	20ms	20ms	GH7423-ND	9.59	8.64	8.16	70M-IAC5A
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	200µs	400µs	GH7027-ND	9.59	8.64	8.16	70M-IDC5
Mounting Boards for Miniature Modules												
4	Mounting Board for 8 Mini I/O Modules - Card Edge Connector Only							GH7030-ND	44.08	41.88	—	70MRCK8-EC
	Mounting Board for 24 Mini I/O Modules - Card Edge Connector Only							GH3008-ND	118.63	112.70	—	70MRCK24-EC
	Mounting Board for 8 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7424-ND	46.59	44.27	—	70MRCK8-HL
	Mounting Board for 16 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7437-ND	73.83	70.14	—	70MRCK16-HL
	Mounting Board for 24 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7438-ND	122.94	116.79	—	70MRCK24-HL
	Mounting Board for 24 Mini I/O Modules - (12x12) 50 Pin Header with Ejector Levers							GH7425-ND	117.56	111.68	—	70MRCQ24-HL
	Mounting Board for 32 Mini I/O Modules - (16x16) 50 Pin Header with Ejector Levers							GH7439-ND	144.80	137.57	—	70MRCQ32-HL
Digital I/O Modules — G5 Full Size with Status LED												
5	5 VDC	4 ~ 6	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH3037-ND	11.12	10.01	9.45	70G-OAC5
	5 VDC	4 ~ 6	240 VAC	24 ~ 280	.030 ~ 3.5A	8.3ms	8.3ms	GH3038-ND	12.08	10.88	10.27	70G-OAC5A
	15 VDC	8 ~ 20	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH3039-ND	11.12	10.01	9.45	70G-OAC15
	24 VDC	18 ~ 32	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7440-ND	11.12	10.01	9.45	70G-OAC24
	5 VDC	4 ~ 6	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH3040-ND	11.12	10.01	9.45	70G-ODC5
	5 VDC	4 ~ 6	200 VDC	4 ~ 200	.020 ~ 3.5A	75µs	750µs	GH7426-ND	17.68	15.92	15.03	70G-ODC5A
	5 VDC	4 ~ 6	60 VDC	3 ~ 60	.020 ~ 3.5A	75µs	500µs	GH7427-ND	11.12	10.01	9.45	70G-ODC5B
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7441-ND	20.48	18.44	17.41	70G-ODC5R
	15 VDC	10 ~ 20	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH3041-ND	11.12	10.01	9.45	70G-ODC15
	24 VDC	18 ~ 32	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH7428-ND	11.12	10.01	9.45	70G-ODC24
	5 VDC	4.5 ~ 6	120 VAC	90 ~ 140	1 ~ 50mA	20ms	20ms	GH3042-ND	10.11	9.10	8.59	70G-IAC5
	5 VDC	4.5 ~ 6	240 VAC	180 VAC~ 280 VDC	1 ~ 50mA	20ms	20ms	GH7429-ND	10.11	9.10	8.59	70G-IAC5A
	24 VDC	17 ~ 30	120 VAC	90 ~ 140	1 ~ 50mA	20ms	20ms	GH7442-ND	10.11	9.10	8.59	70G-IAC24
	5 VDC	4.5 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	200µs	400µs	GH3043-ND	10.11	9.10	8.59	70G-IDC5
	5 VDC	4.5 ~ 6	32 VDC	15~32 VAC/10~32 VDC	1 ~ 50mA	5ms	5ms	GH7443-ND	10.11	9.10	8.59	70G-IDC5NP
	25 VDC	4.5 ~ 6	Dry Contact	—	1 ~ 5mA	3.0ms	3.0ms	GH7430-ND	31.52	28.37	26.79	70G-IDC5S
	24 VDC	17 ~ 30	32 VDC	3 ~ 32	1 ~ 50mA	.20ms	.40ms	GH7431-ND	10.11	9.10	8.59	70G-IDC24
Mounting Boards — G5 Full Size Modules												
—	Mounting Board for 4 G5 I/O Modules - Negative True Logic							GH7432-ND	20.43	19.42	—	70GRCK4
	Mounting Board for 4 G5 I/O Modules - Terminal Block - Negative or Positive Logic							GH3031-ND	21.50	20.43	—	70GRCK4R
6	Mounting Board for 8 G5 I/O Modules, 50 Pin Header with Ejector Levers							GH3032-ND	46.59	44.27	—	70GRCK8-HS
	Mounting Board for 16 G5 I/O Modules, 50 Pin Header with Ejector Levers							GH7444-ND	69.53	66.06	—	70GRCK16-HL
	Mounting Board for 24 G5 I/O Modules, (12x12) 50 Pin Header with Ejector Levers							GH7433-ND	117.56	111.68	—	70GRCQ24-HL
	Mounting Board for 32 G5 I/O Modules, (16x16) 50 Pin Header with Ejector Levers							GH7445-ND	144.80	137.57	—	70GRCM32-HL

International
IOR Rectifier

Optoelectronic Power IC Relays

Fig. 1 ***NEW!***

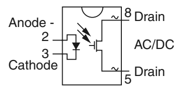

Fig. 2 ***NEW!***

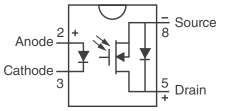

Fig. 3 ***NEW!***

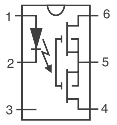

Fig. 4 ***NEW!***

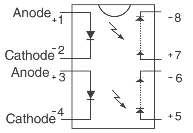

Fig. 5 ***NEW!***

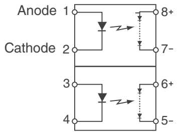

Fig. 6 ***NEW!***

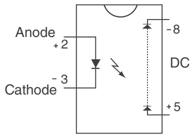

Fig. 7

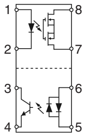

Fig. 8

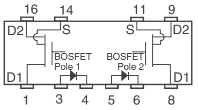

Fig. 9

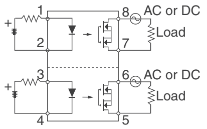

Fig. 10 ***NEW!***

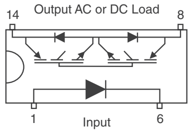

Fig.	Input Led Vf (Volt)	Imin (mA)	Imax (mA)	Vrange	Output Circuit Imax (mA)	Ton/ Toff	Package	Digi-Key Part No.	Price Each 1	10	100
1	1.2	2	25	0 ~ ±100V AC/DC	375	150µs/125µs	8-Dip	PVA1352NPBF-ND◆ ***NEW!***	6.16	5.50	4.51
	1.2	2	25	0 ~ ±100V AC/DC	375	150µs/125µs	8-SMD	PVA1352NSPBF-ND◆ ***NEW!***	6.80	6.08	4.99
	1.2	2	25	0 ~ ±100V AC/DC	375	150µs/125µs	8-Dip	PVA1354NPBF-ND◆ ***NEW!***	6.72	6.00	4.92
	1.2	2	25	0 ~ ±100V AC/DC	375	150µs/125µs	8-SMD	PVA1354NSPBF-ND◆ ***NEW!***	6.58	5.92	4.87
	1.2	2	25	0 ~ ±200V AC/DC	150	100µs/110µs	8-Dip	PVA2352NPBF-ND◆ ***NEW!***	5.74	5.13	4.21
	1.2	2	25	0 ~ ±200V AC/DC	150	100µs/110µs	8-SMD	PVA2352NSPBF-ND◆ ***NEW!***	6.10	5.45	4.47
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/100µs	8-Dip	PVA3054NPBF-ND◆ ***NEW!***	6.44	5.75	4.72
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/100µs	8-SMD	PVA3054NSPBF-ND◆ ***NEW!***	6.58	5.92	4.87
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/100µs	8-Dip	PVA3055NPBF-ND◆ ***NEW!***	7.50	6.75	5.55
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/100µs	8-SMD	PVA3055NSPBF-ND◆ ***NEW!***	7.58	6.82	5.61
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/110µs	8-Dip	PVA3324NPBF-ND◆ ***NEW!***	7.50	6.75	5.55
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/110µs	8-SMD	PVA3324NSPBF-ND◆ ***NEW!***	7.58	6.82	5.61
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/110µs	8-Dip	PVA3354NPBF-ND◆ ***NEW!***	6.50	5.85	4.81
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/110µs	8-SMD	PVA3354NSPBF-ND◆ ***NEW!***	6.58	5.92	4.87
	1.2	5	25	0 ~ 60V AC/DC	100	2.0ms/0.5ms	8-Dip	PVAZ172NPBF-ND◆ ***NEW!***	10.00	9.00	7.40
	1.2	5	25	0 ~ 60V AC/DC	100	2.0ms/0.5ms	8-SMD	PVAZ172NSPBF-ND◆ ***NEW!***	10.15	9.14	7.52
2	1.2	2	25	0 ~ 100V AC/DC	550	150µs/125µs	8-Dip	PVD1352NPBF-ND◆ ***NEW!***	6.38	5.74	4.72
	1.2	2	25	0 ~ 100V AC/DC	550	150µs/125µs	8-SMD	PVD1352NSPBF-ND◆ ***NEW!***	6.66	5.95	4.88
	1.2	2	25	0 ~ 100V AC/DC	550	150µs/125µs	8-Dip	PVD1354NPBF-ND◆ ***NEW!***	6.88	6.19	5.09
	1.2	2	25	0 ~ 100V AC/DC	550	150µs/125µs	8-SMD	PVD1354NSPBF-ND◆ ***NEW!***	6.45	5.81	4.78
	1.2	5	25	0 ~ 60V AC/DC	150	2.0ms/0.5ms	8-Dip	PVDZ172NPBF-ND◆ ***NEW!***	7.63	6.87	5.65
	1.2	5	25	0 ~ 60V AC/DC	150	2.0ms/0.5ms	8-SMD	PVDZ172NSPBF-ND◆ ***NEW!***	7.78	7.00	5.76
3	1.2	5	25	0 ~ ±60V AC/DC	200	3.5ms/0.5ms	6-Dip	PVG612APBF-ND◆ ***NEW!***	8.98	8.08	6.65
	1.2	5	25	0 ~ ±60V AC/DC	200	3.5ms/0.5ms	6-SMD	PVG612ASPBF-ND◆ ***NEW!***	9.05	8.15	6.70
	1.2	5	25	0 ~ ±60V AC/DC	100	2.0ms/0.5ms	6-Dip	PVG612PBF-ND◆ ***NEW!***	6.55	5.85	4.80
	1.2	5	25	0 ~ ±60V AC/DC	100	2.0ms/0.5ms	6-SMD	PVG612SPBF-ND◆ ***NEW!***	6.72	6.00	4.92
	1.2	5	25	0 ~ ±60V AC/DC	100	2.0ms/0.5ms	6-Dip	PVG613PBF-ND◆ ***NEW!***	9.48	8.53	7.02
	1.2	5	25	0 ~ ±60V AC/DC	100	2.0ms/0.5ms	6-SMD	PVG613SPBF-ND◆ ***NEW!***	9.58	8.62	7.09
	1.2	5	25	0 ~ ±20V AC/DC	400	3.0ms/0.5ms	6-Dip	PVN012APBF-ND◆ ***NEW!***	8.98	8.08	6.65
	1.2	5	25	0 ~ ±20V AC/DC	400	3.0ms/0.5ms	6-SMD	PVN012ASPBF-ND◆ ***NEW!***	9.05	8.15	6.70
	1.2	3	25	0 ~ ±20V AC/DC	250	5.0ms/0.5ms	6-Dip	PVN012PBF-ND◆ ***NEW!***	6.16	5.50	4.51
	1.2	3	25	0 ~ ±20V AC/DC	250	5.0ms/0.5ms	6-SMD	PVN012SPBF-ND◆ ***NEW!***	6.33	5.65	4.64
	1.2	3	25	0 ~ ±20V AC/DC	250	5.0ms/0.5ms	6-Dip	PVN013PBF-ND◆ ***NEW!***	9.48	8.53	7.02
	1.2	3	25	0 ~ ±20V AC/DC	250	5.0ms/0.5ms	6-SMD	PVN013SPBF-ND◆ ***NEW!***	9.58	8.62	7.09
	1.2	5	25	0 ~ ±150V AC/DC	550	3.0ms/0.5ms	6-Dip	PVT212PBF-ND◆ ***NEW!***	6.45	5.81	4.78
	1.2	5	25	0 ~ ±150V AC/DC	550	3.0ms/0.5ms	6-SMD	PVT212SPBF-ND◆ ***NEW!***	6.50	5.85	4.81
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	6-Dip	PVT312LPBF-ND◆ ***NEW!***	2.91	2.60	2.14
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	6-SMD	PVT312LSPBF-ND◆ ***NEW!***	2.97	2.65	2.18
	1.2	2	25	0 ~ ±250V AC/DC	190	3.0ms/0.5ms	6-Dip	PVT312PBF-ND◆ ***NEW!***	2.91	2.64	2.12
	1.2	2	25	0 ~ ±250V AC/DC	190	3.0ms/0.5ms	6-SMD	PVT312SPBF-ND◆ ***NEW!***	2.88	2.58	2.12
	1.4	3	25	0 ~ ±400V AC/DC	240	3.0ms/0.5ms	6-Dip	PVT412APBF-ND◆ ***NEW!***	5.60	5.00	4.10
	1.4	3	25	0 ~ ±400V AC/DC	240	3.0ms/0.5ms	6-SMD	PVT412ASPBF-ND◆ ***NEW!***	5.68	5.08	4.17
	1.4	3	25	0 ~ ±400V AC/DC	120	2.0ms/0.5ms	6-Dip	PVT412LPBF-ND◆ ***NEW!***	2.91	2.60	2.14
	1.4	3	25	0 ~ ±400V AC/DC	120	2.0ms/0.5ms	6-SMD	PVT412LSPBF-ND◆ ***NEW!***	2.97	2.65	2.18
	1.4	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-Dip	PVT412PBF-ND◆ ***NEW!***	2.79	2.52	2.03
	1.4	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412SPBF-ND◆ ***NEW!***	2.85	2.58	2.07
	1.2	3	25	0 ~ ±400V AC/DC	140	500µs/200µs	6-Dip	PVU414PBF-ND◆ ***NEW!***	6.10	5.45	4.47
	1.2	3	25	0 ~ ±400V AC/DC	140	500µs/200µs	6-SMD	PVU414SPBF-ND◆ ***NEW!***	6.27	5.60	4.60
4	1.4	2	50	5 ~ 10V DC	5,000	300µs/220µs	8-Dip	PVI1050NPBF-ND◆ ***NEW!***	6.44	5.75	4.72
	1.4	2	50	5 ~ 10V DC	5,000	300µs/220µs	8-SMD	PVI1050NSPBF-ND◆ ***NEW!***	6.50	5.80	4.76
5	1.4	3	25	3 ~ 8V DC	1,000	5.0ms/0.25ms	8-Dip	PVI5013RPBF-ND◆ ***NEW!***	6.02	5.38	4.41
	1.4	3	25	3 ~ 8V DC	1,000	5.0ms/0.25ms	8-SMD	PVI5013RSPBF-ND◆ ***NEW!***	6.10	5.45	4.47
	1.4	3	25	5 ~ 10V DC	5,000	2.5ms/0.5ms	8-Dip	PVI5033RPBF-ND◆ ***NEW!***	6.89	6.15	5.05
	1.4	3	25	5 ~ 10V DC	5,000	2.5ms/0.5ms	8-SMD	PVI5033RSPBF-ND◆ ***NEW!***	6.94	6.20	5.09
6	1.4	2	50	5 ~ 10V DC	5,000	300µs/220µs	8-Dip	PVI5050NPBF-ND◆ ***NEW!***	4.34	3.88	3.18
	1.4	2	50	5 ~ 10V DC	5,000	300µs/220µs	8-SMD	PVI5050NSPBF-ND◆ ***NEW!***	4.40	3.93	3.22
	1.4	2	50	5 ~ 10V DC	8,000	300µs/220µs	8-Dip	PVI5080NPBF-ND◆ ***NEW!***	4.01	3.58	2.94
	1.4	2	50	5 ~ 10V DC	8,000	300µs/220µs	8-SMD	PVI5080NSPBF-ND◆ ***NEW!***	4.06	3.63	2.98
7	1.25	3	25	0 ~ 400V AC/DC	120	2.0ms/0.5ms	Thin-Pak	PVO402P-ND	5.75	5.14	4.22
8	1.2	2	25	0 ~ ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3301N-ND	12.65	9.69	8.20
	1.2	2	25	0 ~ ±100V AC/DC	360	150µs/125µs	16-Dip	PVR1300NPBF-ND◆ ***NEW!***	11.55	10.50	8.93
	1.2	2	25	0 ~ ±100V AC/DC	360	150µs/125µs	16-Dip	PVR1301NPBF-ND◆ ***NEW!***	12.32	11.20	9.52
	1.2	2	25	0 ~ ±200V AC/DC	165	150µs/125µs	16-Dip	PVR2300NPBF-ND◆ ***NEW!***	11.88	10.69	8.79
	1.2	2	25	0 ~ ±300V AC/DC	165	150µs/125µs	16-Dip	PVR3300NPBF-ND◆ ***NEW!***	11.55	10.50	8.93
	1.2	2	25	0 ~ ±300V AC/DC	165	150µs/125µs	16-Dip	PVR3301NPBF-ND◆ ***NEW!***	12.32	11.20	9.52
9	1.25	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322AS-TTR-ND†	4453.16/750		
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-Dip	PVT322APBF-ND◆ ***NEW!***	10.28	9.25	7.61
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322ASPBF-ND◆ ***NEW!***	10.38	9.34	7.68
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-Dip	PVT322PBF-ND◆ ***NEW!***	5.38	4.80	3.94
	1.2	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322SPBF-ND◆ ***NEW!***	5.43	4.85	3.98
	1.2	2	25	0 ~ ±400V AC/DC	120	2.0ms/2.0ms	8-Dip	PVT422PBF-ND◆ ***NEW!***	5.04	4.50	3.69
	1.2	2	25	0 ~ ±400V AC/DC	120	2.0ms/2.0ms	8-SMD	PVT422SPBF-ND◆ ***NEW!***	5.10	4.55	3.74
10	1.4	5	25	0 ~ 400V AC/DC	100	7ms/1ms	14-Dip	PVX6012PBF-ND◆ ***NEW!***	10.88	9.79	8.05

† Tape and Reel ◆ ***RoHS Compliant***

Solid State Relays and Switches

OptoMos® Solid State Relays

As a leading supplier of Solid State Relays (SSRs) to the communications industry, Clare has pioneered the application of SSR solutions that both replace electromechanical devices and enhance performance in wireline interface applications. Clare's products enable communications by providing the critical interface between high voltage electrical signals and the low voltage electronics that process those signals.

Fig. 1

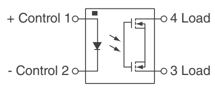

Fig. 2

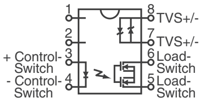

Fig. 3

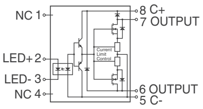

Fig. 4

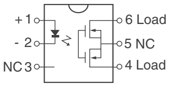

Fig. 5

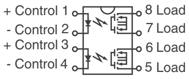

Fig. 6

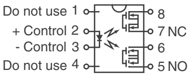

Fig. 7

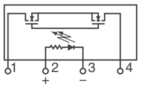

Fig.	Circuit	Load Voltage (V)	Load Current (mA)	Input§ Control Current (mA)	Switching Speeds T_{ON} / T_{OFF} (ms)	Package	Digi-Key Part No.	Price Each			Tape and Reel†		Clare Part No.
								1	25	100	Qty.	Pricing	
1	SPST-NO	60	700	2	5/2	4-SOP	CLA230CT-ND‡	2.03	1.24	1.13	2,000	599.00/M	CPC1002NTR
	SPST-NO	100	300	2	3/1	4-SOP	CLA231CT-ND‡	2.36	1.55	1.37	2,000	806.00/M	CPC1004NTR
	SPST-NO	100	150	2	2/0.5	4-SOP	CLA216CT-ND‡	1.98	1.30	1.15	2,000	676.00/M	CPC1008NTR
	SPST-NO	60	400	2	2/1	4-SOP	CLA314CT-ND‡	1.98	1.30	1.15	2,000	676.00/M	CPC1014NTR
	SPST-NO	100	100	2	2/0.5	4-SOP	CLA232CT-ND‡	1.98	1.30	1.15	2,000	676.00/M	CPC1016NTR
	SPST-NO	60	100	1	10/10	4-SOP	CLA233CT-ND‡	1.35	.83	.75	2,000	399.00/M	CPC1017NTR
	SPST-NO	60	600	2	2/1	4-SOP	CLA225CT-ND‡	3.43	2.40	2.08	2,000	1300.00/M	CPC1018NTR
	SPST-NO	30	1200	50	3/3	4-SOP	CLA318CT-ND‡	3.43	2.40	2.08	2,000	1300.00/M	CPC1020NTR
	SPST-NO	400	120	2	2/1	4-SOP	CLA234CT-ND‡	2.01	1.33	1.17	2,000	689.00/M	CPC1025NTR
	SPST-NO	350	120	2	2/1	4-SOP	CLA217CT-ND‡	2.62	1.73	1.52	2,000	897.00/M	CPC1030NTR
	SPST-NO	350	100	2	2/1	4-SOP	CLA218CT-ND‡	2.28	1.50	1.32	2,000	780.00/M	CPC1035NTR
	SPST-NC	60	150	1	1/2	4-SOP	CLA268CT-ND‡	2.07	1.27	1.15	2,000	612.00/M	CPC1117NTR
	SPST-NC	350	120	2	2/2	4-SOP	CLA226CT-ND‡	3.42	2.25	1.98	2,000	1170.00/M	CPC1130NTR
	SPST-NC	350	120	2	1/2	4-SOP	CLA219CT-ND‡	2.62	1.73	1.52	2,000	897.00/M	CPC1150NTR
	SPST-NO	400	120	2	2/1	4-SOP	CLA312CT-ND‡	2.32	1.53	1.35	2,000	793.00/M	CPC1225NTR
	SPST-NO	350	120	2	2/1	4-SOP	CLA161-ND	2.80	1.84	1.60	—	—	CPC1230N
	SPST-NO	350	120	2	2/1	4-SOP	CLA235CT-ND‡	2.24	1.48	1.30	2,000	767.00/M	CPC1230NTR
	SPST-NO	400	140	2	1/0.5	4-Dip	CLA275-ND	2.63	1.73	1.50	—	—	CPC1390G
	SPST-NO	400	140	2	1/0.5	4-SMD	CLA269CT-ND‡	2.85	1.88	1.65	1,000	1031.00	CPC1390GRTR
	SPST-NO	600	100	5	5/5	4-Dip	CLA276-ND	2.70	1.78	1.54	—	—	CPC1393G
	SPST-NO	600	100	5	5/5	4-SMD	CLA270CT-ND‡	2.93	1.93	1.70	1,000	1059.00	CPC1393GRTR
	SPST-NO	250	200	5	2/2	6-Dip	CLA277-ND	3.01	1.98	1.72	—	—	CPC1510G
	SPST-NO	250	200	5	2/2	6-SMD	CLA272CT-ND‡	3.27	2.15	1.90	1,000	1183.00	CPC1510GSTR
2	SPST-NO	350	100	1	10/10	8-Flatpack	CLA287CT-ND‡	2.95	1.94	1.71	—	—	CPC1335PTR
3	SPST-NO	10	300	10	18/88µs	8-Dip	CLA304-ND	3.36	2.21	1.92	—	—	CPC1560G
	SPST-NO	10	300	10	18/88µs	8-SMD	CLA305CT-ND‡	3.65	2.40	2.12	1,000	1320.00	CPC1560GSTR
4	SPST-NO	350	120	5	5/5	6-SMD	CLA245CT-ND‡	2.75	1.92	1.67	—	—	LCA100STR
	SPST-NO	350	120	2	3/3	6-Dip	CLA101-ND	2.49	1.64	1.42	—	—	LCA110
	SPST-NO	350	120	2	3/3	6-SMD	CLA102CT-ND‡	2.70	1.78	1.57	1,000	976.00	LCA110STR
	SPST-NO	250	170	5	5/5	6-Dip	CLA178-ND	3.18	2.23	1.91	—	—	LCA120
	SPST-NO	250	170	5	5/5	6-SMD	CLA246CT-ND‡	3.56	2.49	2.16	1,000	1436.00	LCA120STR
	SPST-NO	350	170	5	5/5	6-Dip	CLA179-ND	3.69	2.59	2.22	—	—	LCA125
	SPST-NO	350	170	5	5/5	6-SMD	CLA247CT-ND‡	4.13	2.88	2.50	1,000	1663.00	LCA125STR
	SPST-NO	250	200	5	5/5	6-Dip	CLA180-ND	3.69	2.59	2.22	—	—	LCA127
	SPST-NO	250	200	5	5/5	6-SMD	CLA248CT-ND‡	4.13	2.88	2.50	1,000	1663.00	LCA127STR
	SPST-NO	60	1000	10	2.5/0.25	6-Dip	CLA181-ND	5.91	4.14	3.55	—	—	LCA710
	SPST-NO	60	1000	10	2.5/0.25	6-SMD	CLA249CT-ND‡	6.50	4.54	3.94	1,000	2620.00	LCA710STR
	SPST-NO	60	1800	10	2.5/0.25	6-Dip	CLA308-ND	6.18	4.33	3.71	—	—	LCA715
	SPST-NO	60	1800	10	2.5/0.25	6-SMD	CLA309CT-ND‡	6.80	4.74	4.12	1,000	2740.00	LCA715STR
	SPST-NO	30	2000	2	3/3	6-SMD	CLA324-ND ***NEW!***	6.18	4.33	3.71	—	—	LCA717S
	SPST-NO	30	2000	2	3/3	6-Dip	CLA325-ND ***NEW!***	6.18	4.33	3.71	—	—	LCA717
	SPST-NC	350	120	5	3/3	6-Dip	CLA105-ND	3.00	2.10	1.80	—	—	LCB110
	SPST-NC	350	120	5	3/3	6-SMD	CLA250CT-ND‡	3.37	2.35	2.04	1,000	1357.00	LCB110STR
	SPST-NC	250	170	5	5/5	6-Dip	CLA182-ND	3.75	2.63	2.25	—	—	LCB120
	SPST-NC	250	170	5	5/5	6-SMD	CLA251CT-ND‡	4.13	3.50	2.11	1,000	1689.00	LCB120STR
	SPST-NC	250	200	5	5/5	6-Dip	CLA183-ND	4.38	3.07	2.63	—	—	LCB127
	SPST-NC	250	200	5	5/5	6-SMD	CLA252CT-ND‡	4.82	3.36	2.92	1,000	1942.00	LCB127STR
	SPST-NC	60	500	2	3/3	6-Dip	CLA310-ND	5.25	3.68	3.15	—	—	LCB716
	SPST-NC	60	500	2	3/3	6-SMD	CLA311CT-ND‡	5.78	4.03	3.50	1,000	2328.00	LCB716STR
	SPST-NO	400	150	5	1/0.25	6-Dip	CLA107-ND	3.87	2.71	2.33	—	—	PLA110
	SPST-NO	400	150	5	1/0.25	6-SMD	CLA263CT-ND‡	4.32	3.02	2.62	1,000	1742.00	PLA110STR
	SPST-NO	100	350	5	5/5	6-Dip	CLA192-ND	4.56	3.20	2.74	—	—	PLA134
	SPST-NO	100	350	5	5/5	6-SMD	CLA264CT-ND‡	5.08	3.55	3.08	1,000	2048.00	PLA134STR
	SPST-NO	250	250	5	2.5/0.5	6-Dip	CLA193-ND	4.56	3.20	2.74	—	—	PLA150
	SPST-NO	250	250	5	2.5/0.5	6-SMD	CLA228CT-ND‡	4.13	2.88	2.51	1,000	2035.00	PLA150STR
	SPST-NC	250	250	5	1/2.5	6-Dip	CLA194-ND	5.40	3.78	3.24	—	—	PLB150
	SPST-NC	250	250	5	1/2.5	6-SMD	CLA229CT-ND‡	5.94	4.14	3.60	1,000	2394.00	PLB150STR
	SPST-NO	350	100	5	5/5	6-Dip	CLA200-ND	2.63	1.73	1.50	—	—	XCA170
	SPST-NO	350	100	5	5/5	6-SMD	CLA267CT-ND‡	2.39	1.58	1.39	—	—	XCA170STR
5	DPST-NO/NO	350	120	5	3/3	8-Dip	CLA103-ND	4.83	3.39	2.90	—	—	LAA110
	DPST-NO/NO	350	120	5	3/3	8-SMD	CLA236CT-ND‡	5.31	3.71	3.22	1,000	2141.00	LAA110STR

§ Input Voltage - 1.2V Typical, 1.4V Maximum † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Solid State Relays and Switches

OptoMos® Solid State Relays *(Cont.)*

Fig.	Circuit	Load Voltage (V)	Load Current (mA)	Input§ Control Current (mA)	Switching Speeds TON / TOFF (ms)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Clare Part No.
5	DPST-NO/NO	250	170	5	5/5	8-Dip	CLA170-ND	4.71	3.30	2.83	—	—	LAA120
	DPST-NO/NO	250	170	5	5/5	8-SMD	CLA237CT-ND‡	5.18	3.62	3.14	1,000	2088.00	LAA120STR
	DPST-NO/NO	350	170	5	5/5	8-Dip	CLA171-ND	4.71	3.30	2.83	—	—	LAA125
	DPST-NO/NO	350	170	5	5/5	8-SMD	CLA238CT-ND‡	5.18	3.62	3.14	1,000	2088.00	LAA125STR
	DPST-NO/NO	250	200	5	5/5	8-Dip	CLA172-ND	6.48	4.54	3.89	—	—	LAA127
	DPST-NO/NO	250	200	5	5/5	8-SMD	CLA239CT-ND‡	7.13	4.97	4.32	1,000	2873.00	LAA127STR
	DPST-NC/NO	350	120	2	3/3	8-Dip	CLA104-ND	5.04	3.53	3.03	—	—	LBA110
	DPST-NC/NO	350	120	2	3/3	8-SMD	CLA240CT-ND‡	5.54	3.87	3.36	1,000	2234.00	LBA110STR
	DPST-NC/NO	250	170	5	5/5	8-Dip	CLA173-ND	6.15	4.31	3.69	—	—	LBA120
	DPST-NC/NO	60	1000	2	5/5	8-Dip	CLA306-ND	6.78	4.87	4.10	—	—	LBA716
	DPST-NC/NO	60	1000	2	5/5	8-SMD	CLA307CT-ND‡	7.68	5.38	4.48	1,000	3328.00	LBA716STR
	DPST-NC/NC	350	120	5	3/3	8-Dip	CLA174-ND	5.70	3.99	3.42	—	—	LBB110
	DPST-NC/NC	350	120	5	3/3	8-SMD	CLA242CT-ND‡	6.27	4.37	3.80	1,000	2527.00	LBB110STR
	DPST-NC/NC	250	170	5	5/5	8-Dip	CLA175-ND	6.63	4.65	3.98	—	—	LBB126
	DPST-NC/NC	250	200	5	5/5	8-Dip	CLA176-ND	7.31	5.25	4.42	—	—	LBB127
	DPST-NO/NO	400	150	5	1/0.25	8-Dip	CLA187-ND	7.38	5.17	4.43	—	—	PAA110
	DPST-NO/NO	400	150	5	1/0.25	8-SMD	CLA259CT-ND‡	8.15	5.69	4.94	1,000	3285.00	PAA110STR
	DPST-NO/NO	400	250	5	1.5/0.25	8-Dip	CLA188-ND	7.16	5.13	4.32	—	—	PAA140
	DPST-NO/NO	400	250	5	1.5/0.25	8-SMD	CLA260CT-ND‡	8.13	5.70	4.75	1,000	3523.00	PAA140STR
	DPST-NO/NO	250	250	5	2.5/0.5	8-Dip	CLA189-ND	7.69	5.51	4.64	—	—	PAA150
	DPST-NO/NO	250	250	5	2.5/0.5	8-SMD	CLA227CT-ND‡	8.25	5.78	4.82	1,000	3575.00	PAA150STR
	DPST-NO/NC	250	250	5	2.5/2.5	8-Dip	CLA190-ND	8.14	5.84	4.92	—	—	PBA150
	DPST-NO/NC	250	250	5	2.5/2.5	8-SMD	CLA261CT-ND‡	9.27	6.49	5.41	1,000	4017.00	PBA150STR
	DPST-NC/NC	250	250	5	2.5/2.5	8-Dip	CLA191-ND	8.14	5.84	4.92	—	—	PBB150
	DPST-NC/NC	250	250	5	2.5/2.5	8-SMD	CLA262CT-ND‡	9.27	6.49	5.41	1,000	4017.00	PBB150STR
	DPST-NO/NO	350	100	5	5/5	8-Dip	CLA198-ND	4.56	3.20	2.74	—	—	XAA170
	DPST-NO/NO	350	100	5	5/5	8-SMD	CLA265CT-ND‡	4.10	2.86	2.49	1,000	2022.00	XAA170STR
	DPST-NO/NC	350	100	5	5/5	8-Dip	CLA199-ND	4.95	3.47	2.97	—	—	XBA170
	DPST-NO/NC	350	100	5	5/5	8-SMD	CLA266CT-ND‡	4.45	3.11	2.70	—	—	XBA170STR
6	SPDT-NC/NO	350	120	8	4/4	8-Dip	CLA106-ND	4.74	3.32	2.85	—	—	LCC110
	SPDT-NC/NO	350	120	8	4/4	8-SMD	CLA253CT-ND‡	5.28	3.68	3.20	1,000	2128.00	LCC110STR
	SPDT-NO/NC	250	170	10	5/5	8-Dip	CLA184-ND	6.06	4.25	3.64	—	—	LCC120
	SPDT-NO/NC	250	170	10	5/5	8-SMD	CLA254CT-ND‡	6.73	4.70	4.08	1,000	2713.00	LCC120STR
7	SPST-NO	60	600	5-12	5/5	4-SIP	CLA274-ND	2.31	1.52	1.32	—	—	CPC1218Y

§ Input Voltage - 1.2V Typical, 1.4V Maximum † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

Optocouplers

Fig. 1

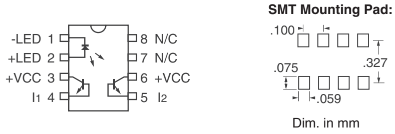

Fig. 2

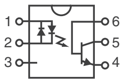

Fig. 3

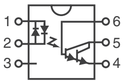

Fig. 4

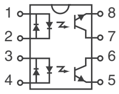

Fig. 5

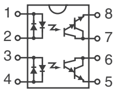

Fig. 6

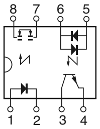

Fig. 7

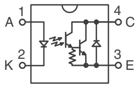

Fig. 8

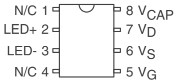

Fig.	Circuit	Package	Vf	If (mA)	Isolation (Vrms)	Current Transfer Ratio	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel† Pricing 1,000	Clare Part No.
1	Dual Transistor	8-Dip	1.2	2	3,750	—	CLA113-ND	2.63	1.73	1.50	—	LOC110
	Dual Transistor	8-SMD	1.2	2	3,750	—	CLA114CT-ND‡	2.85	1.88	1.65	1031.00	LOC110STR
	Dual Transistor	8-Dip	1.2	2	3,750	—	CLA116-ND	3.08	2.03	1.76	—	LOC111
	Dual Transistor	Flatpack	1.2	2	3,750	—	CLA118CT-ND‡	3.34	2.20	1.94	1210.00	LOC111PTR
2	Single Transistor	6-Dip	1.2	6	3,750	100%	CLA185-ND	1.12	.70	.63	—	LDA100
	Single Transistor	6-SMD	1.2	6	3,750	100%	CLA255CT-ND‡	1.31	.80	.73	406.00	LDA100STR
3	Single Transistor	6-Dip	1.2	2	3,750	1,000%	CLA111-ND	1.16	.73	.66	—	LDA110
	Single Transistor	6-SMD	1.2	2	3,750	1,000%	CLA256CT-ND‡	1.35	.83	.75	420.00	LDA110STR
4	Dual Transistor	8-Dip	1.2	6	3,750	100%	CLA112-ND	1.96	1.29	1.12	—	LDA200
	Dual Transistor	8-SMD	1.2	6	3,750	100%	CLA257CT-ND‡	2.17	1.43	1.26	784.00	LDA200STR
5	Dual Transistor Telecom	8-Dip	1.2	6	3,750	1,000%	CLA186-ND	2.07	1.36	1.18	—	LDA210
6	Dual Transistor Telecom	8-Dip	1.2	2	3,750	—	CLA108-ND	3.15	2.21	1.89	—	TS117
	Dual Transistor Telecom	8-SMD	1.2	2	3,750	—	CLA110CT-ND‡	3.50	2.44	2.12	1410.00	TS117STR
7	Single Darlington	4-Dip	1.2	1	5,000	1,000%	CLA293-ND	1.08	.68	.61	—	CPC1301G
	Single Darlington	4-SMD	1.2	1	5,000	1,000%	CLA294CT-ND‡	1.22	.75	.68	378.00	CPC1301GRTR
	Dual Darlington	8-Dip	1.2	1	3,750	1,000%	CLA295-ND	1.72	1.08	.97	—	CPC1302G
	Dual Darlington	8-SMD	1.2	1	3,750	1,000%	CLA296CT-ND‡	1.94	1.19	1.08	602.00	CPC1302GSTR
8	Gate Driver	8-Flatpack	1.27	2.5	3,750	—	CLA297CT-ND‡	2.09	1.38	1.21	756.00	CPC1580PTR

† For Tape and Reel Part Number, change CT-ND to TR-ND. ‡ Cut Tape

CLARE An IXYS Company Solid State Power Relays and Switches

Fig.	Circuit	Package	Blocking Voltage	Load Current (Arms)	Input Current (mA)	Isolation (Vrms)	Digi-Key Part No.	Price Each			Clare Part No.
								1	25	100	
1	SCR Output	6-Dip	800	250mA	5	3,750	CLA224-ND	2.03	1.34	1.16	CPC1972G
	SCR Output	6-SMD	800	250mA	5	3,750	CLA273CT-ND‡	2.20	1.45	1.28	CPC1972GSTR
	SCR Output	6-SMD	800	250mA	5	3,750	CLA273TR-ND§	798.00/1,000			CPC1972GSTR
2	SCR Output	16-Dip	400	1A	5	3,750	CLA162-ND	3.45	2.42	2.07	CPC1945G
	SCR Output	16-Dip	600	1A	5	3,750	CLA157-ND	3.63	2.55	2.18	CPC1965G
3	SCR Output	8-SIP	600	2A	5	3,750	CLA283-ND	5.49	3.85	3.30	CPC1976Y
	SCR Output	8-SIP	400	1A	5	3,750	CLA163-ND	3.45	2.42	2.07	CPC1945Y
	SCR Output	8-SIP	400	1A	5	3,750	CLA195-ND	6.06	4.25	3.64	PS1201
	SCR Output	8-SIP	500	1A	5	3,750	CLA196-ND	6.15	4.31	3.69	PS2401
	SCR Output	8-SIP	600	1A	5	3,750	CLA158-ND	3.63	2.55	2.18	CPC1965Y
	SCR Output	8-SIP	600	1A	5	3,750	CLA197-ND	6.73	4.83	4.07	PS2601
4	MOSFET	4-SIP	60	2A	10	2,500	CLA207-ND	7.66	5.50	4.63	CPC1906Y
	MOSFET	4-SIP	100	2.5A	10	2,500	CLA209-ND	6.63	4.75	4.00	CPC1916Y
	MOSFET	4-SIP	250	700mA	10	2,500	CLA210-ND	6.00	4.20	3.60	CPC1926Y
	MOSFET	4-SIP	400	350mA	10	2,500	CLA211-ND	6.63	4.65	3.98	CPC1973Y
	MOSFET	4-SIP	1,000	180mA	10	2,500	CLA203-ND	3.93	2.76	2.36	CPC1981Y
5	MOSFET	i4-PAC™	60	3.5A	10	2,500	CLA208-ND	10.10	7.24	6.10	CPC1908J
	MOSFET	i4-PAC	400	1.35A	10	2,500	CLA282-ND	10.84	7.78	6.55	CPC1967J
	MOSFET	i4-PAC	600	1.25A	10	2,500	CLA212-ND	11.82	8.48	7.14	CPC1977J
	MOSFET	i4-PAC	800	750mA	10	2,500	CLA213-ND	8.88	6.37	5.36	CPC1978J
	MOSFET	i4-PAC	1,000	700mA	10	2,500	CLA285-ND	11.79	8.46	7.12	CPC1986J
	MOSFET	ISOPLUS™-264	60	6.5A	10	2,500	CLA281-ND	10.31	7.40	6.23	CPC1909J
	MOSFET	ISOPLUS-264	100	5.25A	10	2,500	CLA288-ND	10.31	7.40	6.23	CPC1918J
	MOSFET	ISOPLUS-264	600	1.4A	10	2,500	CLA284-ND	11.95	8.57	7.22	CPC1979J
	MOSFET	ISOPLUS-264	1,000	900mA	10	2,500	CLA286-ND	11.93	8.55	7.20	CPC1988J
6	MOSFET	i4-PAC	60	4A	10	2,500	CLA279-ND	6.78	4.87	4.10	CPC1708J
	MOSFET	i4-PAC	1,000	650mA	10	2,500	CLA278-ND	9.17	6.58	5.54	CPC1786J
	MOSFET	ISOPLUS-264	60	9A	10	2,500	CLA280-ND	6.94	4.98	4.20	CPC1709J
	MOSFET	ISOPLUS-264	100	6.75A	10	2,500	CLA315-ND	6.94	4.98	4.20	CPC1718J
	MOSFET	ISOPLUS-264	250	3.4A	10	2,500	CLA316-ND	8.27	5.93	5.00	CPC1727J
	MOSFET	ISOPLUS-264	600	1.65A	10	2,500	CLA317-ND	8.19	5.88	4.95	CPC1779J
	MOSFET	ISOPLUS-264	1,000	1A	10	2,500	CLA313-ND	10.28	7.38	6.21	CPC1788J
7	MOSFET	SOT-89	250	360mA	600	—	CPC3703CCT-ND‡ ***NEW!***	.95	.61	.53	CPC3703CTR
	MOSFET	SOT-89	250	360mA	600	—	CPC3703CTR-ND§ ***NEW!***	532.00/2,000			CPC3703CTR

‡ Cut Tape § Tape and Reel

Fig. 1

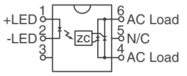

Fig. 2

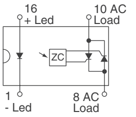

Fig. 3

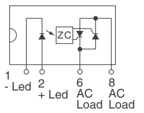

Fig. 4

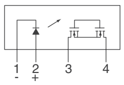

Fig. 5

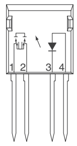

Fig. 6

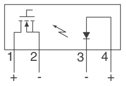

Fig. 7 ***NEW!***

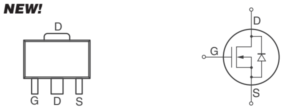

NEW! Integrated Circuits

Description	Digi-Key Part No.	Price Each			Clare Part No.
		1	25	100	
3V/5V General Purpose Call Progress Tone Detector, 16-SOIC	CLA323-ND	4.50	3.15	2.70	M980-02S
High Voltage Power MOSFET and IGBT Driver, 8-DIP	CLA326-ND	2.66	1.75	1.52	IX2127G
High Voltage Power MOSFET and IGBT Driver, 8-SOIC	CLA327-ND	2.66	1.75	1.52	IX2127N
4A Dual Non-Inverting Low-Side Ultrafast MOSFET Driver with an Enable, 8-SOIC with Exposed, Grounded Metal Back	CLA332-ND	3.18	2.23	1.91	IXDD604SI
4A Dual Non-Inverting Low-Side Ultrafast MOSFET Driver with an Enable, 8-SOIC	CLA333-ND	2.03	1.34	1.16	IXDD604SIA
4A Dual One Inverting and One Non-Inverting Low-Side Ultrafast MOSFET Driver, 8-SOIC with Exposed, Grounded Metal Back	CLA334-ND	3.18	2.23	1.91	IXDF604SI
4A Dual Non-Inverting Low-Side Ultrafast MOSFET Driver, 8-DIP	CLA335-ND	2.03	1.34	1.16	IXDN604PI
4A Dual Non-Inverting Low-Side Ultrafast MOSFET Driver, 8-SOIC with Exposed, Grounded Metal Back	CLA336-ND	3.18	2.23	1.91	IXDN604SI
4A Dual Non-Inverting Low-Side Ultrafast MOSFET Driver, 8-SOIC	CLA337-ND	2.03	1.34	1.16	IXDN604SIA

Off-Line High Brightness LED Drivers

Features: • 8V to 450V input voltage range • >90% efficiency • Drives multiple LEDs in series/parallel combinations • Regulated LED drive current • Linear or PWM brightness control • Resistor-programmable oscillator frequency
Applications: • Flat-panel display RGB backlighting • Signage and decorative LED lighting • DC/DC or AC/DC LED driver applications
Operating Temperature Range: -40°C ~ 85°C

Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Clare Part No.
		1	25	100			
High Brightness LED Driver with Exposed Thermal Pad	CLA319CT-ND	1.90	1.25	1.10	CLA319TR-ND	650.00/M	MXHV9910BETR
High Brightness LED Driver	CLA320CT-ND	1.94	1.19	1.08	CLA320TR-ND	572.00/M	MXHV9910BTR

8-SOIC

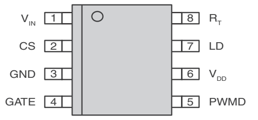

LITELINK™ III Phone Line Interfaces

Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Clare Part No.
		1	25	100		Qty.	Pricing	
IC Phone Line Monitor, 8-SOIC	CLA301CT-ND	2.03	1.24	1.13	CLA301TR-ND	2,000	599.00/M	CPC5710NTR
Half-wave Ring Detection, Phone Line Interface, 32-SOIC	CLA166-ND†	4.50	3.15	2.70	—	—	—	CPC5620A
Full-wave Ring Detection, Phone Line Interface, 32-SOIC	CLA167-ND†	4.50	3.15	2.70	—	—	—	CPC5621A
LITELINK III Ring Half-wave, Phone Line Interface, 32-SOIC	CLA300CT-ND	4.95	3.45	3.00	CLA300TR-ND	1,000	1995.00	CPC5620ATR
LITELINK III Ring Full-wave, Phone Line Interface, 32-SOIC	CLA321CT-ND ***NEW!***	4.95	3.45	3.00	CLA321TR-ND ***NEW!***	1,000	1995.00	CPC5621ATR
LITELINK III Phone Line Interface, 32-SOIC	CLA322CT-ND ***NEW!***	4.95	3.45	3.00	CLA322TR-ND ***NEW!***	1,000	1995.00	CPC5622ATR
Phone Line Monitor with Detectors (PLMD), 16-QSOP	CLA303CT-ND	2.03	1.24	1.13	CLA303TR-ND	2,000	599.00/M	CPC5712UTR
N-Channel Depletion Mode FET, 350V, SOT-223	CLA298CT-ND	1.00	.64	.55	CLA298TR-ND	1,000	300.00	CPC5602CTR
N-Channel Depletion Mode FET, 415V, SOT-223	CLA299CT-ND	1.15	.74	.64	CLA299TR-ND	1,000	345.00	CPC5603CTR
SHDSL/ISDN DC Termination, 16-MLP	CLA271CT-ND	9.12	6.39	5.32	CLA271TR-ND	1,000	3952.00	CPC1465MTR
LITELINK III Evaluation Board Reactive	CLA165-ND†	153.62	—	—	—	—	—	CPC5621-EVAL-CDL
LITELINK III Evaluation Board Resistive	CLA164-ND†	153.62	—	—	—	—	—	CPC5621-EVAL-RDL

† Bulk

IC Phone Line Monitor

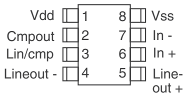

Photovoltaic Solar Cells

Applications: • Portable electronics • Solar battery chargers • Battery operated equipment • Consumer electronics • Off grid installation • Wireless sensors and detection • Self powered Sunlight/Light detector • Self powered products • Remote installation

Fig.	Open Circuit Voltage	Short Circuit Current (µA)	Description	Package	Digi-Key Part No.	Price Each			Clare Part No.
						1	25	100	
1	4	50	Clear Molded	8-SOIC	CLA289-ND	1.60	1.00	.90	CPC1822N
	8	25	Clear Molded	8-SOIC	CLA291-ND	1.76	1.10	.99	CPC1831N
2	4	100	Clear Molded	16-SOIC	CLA290-ND	1.84	1.15	1.04	CPC1824N
	8	50	Clear Molded	16-SOIC	CLA292-ND	1.75	1.15	1.00	CPC1832N

Fig. 1

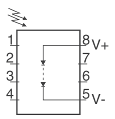

Fig. 2

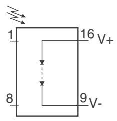

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Electric Works

PhotoMOS Relays

Features: • PhotoMOS relays combine the advantages of standard electromechanical relays with that of solid state products • Very fast response times with very low leakage and exceedingly long life times • Reliability and lower input currents are also improved over conventional relays

Dim. in mm

Fig. 1

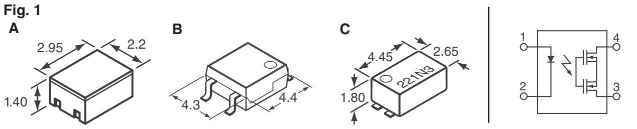

Fig. 2

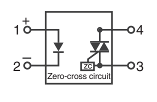

Fig. 3

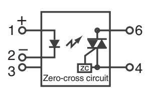

Fig. 4

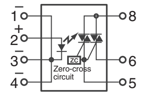

Fig. 5

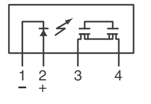

Fig. 6

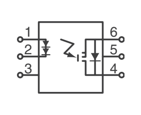

Fig. 7

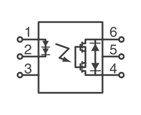

Fig. 8

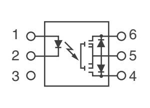

Fig. 9

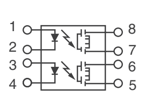

Fig. 10

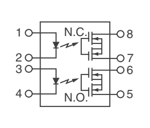

Fig. 11

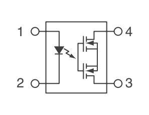

Fig. 12

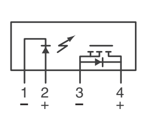

Fig. 13 ***NEW!***

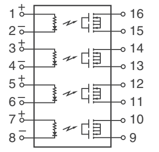

Package (Board Layout)

Dim. in mm

4-SON

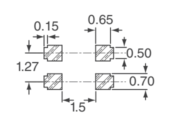

4-DIP

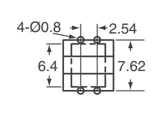

4-DIP Wide

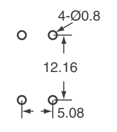

4-SMD

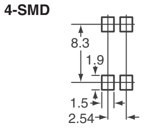

§ See datasheet for dimensions

4-SIP

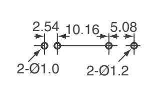

4-SOP

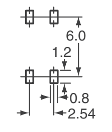

4-SSOP

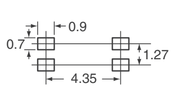

6-DIP

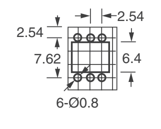

6-SMD

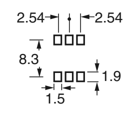

6-SOP

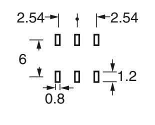

8-DIP

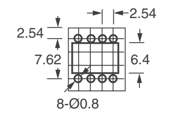

8-SMD

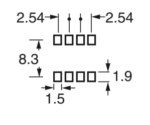

8-SOP

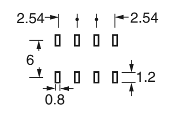

16-SOP ***NEW!***

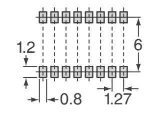

Fig.	Contact Arrangement	Load Current (Max.) mA	Load Voltage (Max.) V	Isolation Voltage	On Resistance (Min. / Max.) Ω	Features	Package	Digi-Key Part No.	Price Each				Panasonic Part No.
									1	25	50	100	
AQY Series Micro-miniature PhotoMOS Relays													
1A	SPST-NO	150	25	200	5.5/7.5	Low CXR	4-SON	255-2389-ND	9.58	8.80	7.82	6.65	AQY221N3M
	SPST-NO	250	40	200	0.8/1.25	Low CXR	4-SON	255-2396-1-ND†	9.73	8.94	7.94	6.75	AQY221R2M1Y
	SPST-NO	250	40	200	0.8/1.25	Low CXR	4-SON	255-2396-2-ND‡		5756.50/1,000			AQY221R2M1Y
	SPST-NO	120	40	200	9.5/12.5	Low CXR	4-SON	255-2397-1-ND†	9.09	8.35	7.42	6.31	AQY221N2M1Y
	SPST-NO	120	40	200	9.5/12.5	Low CXR	4-SON	255-2397-2-ND‡		5379.50/1,000			AQY221N2M1Y
AQY Series Ultra Mini PhotoMOS Relays													
1B	SPST-NO	500	60	1,500	0.83/2.5	Economy Version	4-SOP	255-1981-ND	5.61	5.16	4.58	3.90	AQY212S
	SPST-NO	1,250	60	500	0.2/0.5	With Built-in Resistor	4-SOP	255-2679-ND ***NEW!***	8.48	7.79	6.92	5.89	AQY212FG2S
	SPST-NO	120	40	1,500	9.8/12.5	Low CXR	4-SOP	255-2147-2-ND‡		3553.00/1,000			AQY221N1SZ
	SPST-NO	120	40	1,500	9.5/12.5	—	4-SOP	255-1793-5-ND	7.23	6.64	5.90	5.02	AQY221N2S
	SPST-NO	120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-2148-2-ND‡		4162.00/1,000			AQY221N2SX
	SPST-NO	120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-2149-2-ND‡		4162.00/1,000			AQY221N2SZ
	SPST-NO	120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-1794-2-ND‡		15277.50/3,500			AQY221N2VY
	SPST-NO	250	40	500	0.8/1.25	—	4-SOP	255-2150-5-ND	7.03	6.46	5.74	4.88	AQY221R2S
	SPST-NO	250	40	500	0.8/1.25	—	4-SOP	255-2151-2-ND‡		4162.00/1,000			AQY221R2SX
	SPST-NO	250	40	500	0.8/1.25	High Speed/Low CXR	4-SOP	255-2585-1-ND†	7.03	6.46	5.74	4.88	AQY221R2SZ
	SPST-NO	250	40	500	0.8/1.25	High Speed/Low CXR	4-SOP	255-2585-2-ND‡		4161.50/1,000			AQY221R2SZ
	SPST-NO	500	60	1,500	0.8/1.2	High Speed/Low CXR	4-SOP	255-2898-ND ***NEW!***	8.04	7.38	6.56	5.58	AQY222R1S
1C	SPST-NO	250	40	1,500	0.75/1.25	High Speed/Low CXR	4-SSOP	255-2884-3-ND◊ ***NEW!***		1167.90/150			AQY221R2V
	SPST-NO	250	40	1,500	0.75/1.25	High Speed/Low CXR	4-SSOP	255-2685-1-ND† ***NEW!***	7.57	6.96	6.18	5.26	AQY221R2VY
	SPST-NO	250	40	1,500	0.75/1.25	High Speed/Low CXR	4-SSOP	255-2685-2-ND‡ ***NEW!***		15681.75/3,500			AQY221R2VY
	SPST-NO	150	25	1,500	5.5/7.5	—	4-SSOP	255-1982-ND	7.33	6.73	5.98	5.09	AQY221N3V
	SPST-NO	150	25	1,500	5.5/7.5	—	4-SSOP	255-1982-2-ND‡		15176.00/3,500			AQY221N3VY
	SPST-NO	250	40	500	0.75/1.25	With Built-in Resistor	4-SSOP	255-2683-ND ***NEW!***	8.94	8.22	7.30	6.21	AQY221FR2V
	SPST-NO	250	40	500	0.75/1.25	With Built-in Resistor	4-SSOP	255-2684-1-ND† ***NEW!***	8.94	8.22	7.30	6.21	AQY221FR2VY
	SPST-NO	250	40	500	0.75/1.25	With Built-in Resistor	4-SSOP	255-2684-2-ND‡ ***NEW!***		18523.75/3,500			AQY221FR2VY
	SPST-NO	120	40	500	9.5/12.5	With Built-in Resistor	4-SSOP	255-2682-ND ***NEW!***	8.53	7.83	6.96	5.92	AQY221FN2V
	SPST-NO	120	40	1,500	9.5/12.5	With Built-in Resistor	4-SSOP	255-2976-1-ND† ***NEW!***	6.47	5.94	5.28	4.49	AQY221N2V1Y
	SPST-NO	120	40	1,500	9.5/12.5	With Built-in Resistor	4-SSOP	255-2976-2-ND‡ ***NEW!***		3828.00/1,000			AQY221N2V1Y
APT Series Phototriacs Couplers													
2	SPST-NO	100	600	5,000	—	Zero-Cross	4-DIP	255-1516-5-ND	1.23	1.13	1.00	.85	APT1211
	SPST-NO	100	600	5,000	—	Zero-Cross	4-SOP	255-1517-5-ND	1.23	1.13	1.00	.85	APT1211A
	SPST-NO	50	600	3,750	—	Zero-Cross	4-SOP	255-1518-5-ND	1.59	1.47	1.30	1.11	APT1211S
3	SPST-NO	100	600	5,000	—	Zero-Cross	6-DIP	255-1519-5-ND	1.32	1.22	1.08	.92	APT1212
	SPST-NO	100	600	5,000	—	Zero-Cross	6-SMD	255-1520-5-ND	1.32	1.22	1.08	.92	APT1212A
2	SPST-NO	100	600	5,000	—	Non Zero-Cross	4-DIP	255-1521-5-ND	1.18	1.08	.96	.82	APT1221
	SPST-NO	100	600	5,000	—	Non Zero-Cross	4-SOP	255-1522-5-ND	1.18	1.08	.96	.82	APT1221A
	SPST-NO	50	600	3,750	—	Non Zero-Cross	4-SOP	255-1523-5-ND	1.37	1.26	1.12	.96	APT1221S
3	SPST-NO	100	600	5,000	—	Non Zero-Cross	6-DIP	255-1524-5-ND	1.40	1.29	1.14	.97	APT1222
	SPST-NO	100	600	5,000	—	Non Zero-Cross	6-SMD	255-1525-5-ND	1.40	1.29	1.14	.97	APT1222A
AQH Series Solid State Relays													
4	SPST-NO	600	600	5,000	—	Zero-Cross	8-DIP	255-1526-5-ND	1.76	1.62	1.44	1.23	AQH1213
	SPST-NO	600	600	5,000	—	Zero-Cross	8-SMD	255-1527-5-ND	1.76	1.62	1.44	1.23	AQH1213A
	SPST-NO	600	600	5,000	—	Zero-Cross	8-SMD	255-1527-2-ND‡		1044.00/1,000			AQH1213AX
	SPST-NO	600	600	5,000	—	Non Zero-Cross	8-DIP	255-1528-5-ND	1.91	1.76	1.56	1.33	AQH1223

† Cut Tape ‡ Tape and Reel ◊ Tape and Box § See datasheet for dimensions

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Contact Arrangement	Load Current (Max.) mA	Load Voltage (Max.) V	Isolation Voltage	On Resistance (Min. / Max.) Ω	Features	Package	Digi-Key Part No.	Price Each				Panasonic Part No.
									1	25	50	100	
4	SPST-NO	600	600	5,000	—	Non Zero-Cross	8-SMD	255-1529-5-ND	1.91	1.76	1.56	1.33	AQH1223A
	SPST-NO	900	600	5,000	—	Zero-Cross	8-DIP	255-1530-5-ND	1.86	1.71	1.52	1.30	AQH2213
	SPST-NO	900	600	5,000	—	Zero-Cross	8-SMD	255-1531-5-ND	1.86	1.71	1.52	1.30	AQH2213A
	SPST-NO	900	600	5,000	—	Non Zero-Cross	8-DIP	255-1532-5-ND	2.03	1.87	1.66	1.42	AQH2223
	SPST-NO	900	600	5,000	—	Non Zero-Cross	8-SMD	255-1533-5-ND	2.03	1.87	1.66	1.42	AQH2223A
	SPST-NO	1,200	600	5,000	—	Zero-Cross	8-DIP	255-2660-ND ***NEW!***	2.25	2.07	1.84	1.57	AQH3213
	SPST-NO	1,200	600	5,000	—	Zero-Cross	8-SMD	255-2661-ND ***NEW!***	2.25	2.07	1.84	1.57	AQH3213A
	SPST-NO	1,200	600	5,000	—	Non Zero-Cross	8-DIP	255-2662-ND ***NEW!***	2.13	1.96	1.74	1.48	AQH3223
	SPST-NO	1,200	600	5,000	—	Non Zero-Cross	8-SMD	255-2663-ND ***NEW!***	2.13	1.96	1.74	1.48	AQH3223A
AQG Series Solid State Relays													
5	SPST-NO	2,000	264	1,500	—	Zero-Cross	4-SIP	255-2102-5-ND	6.86	6.30	5.60	4.76	AQG22105
AQV Series PhotoMOS Relays													
6	SPST-NO	700	40	1,500	0.3/0.5	—	6-DIP	255-1546-5-ND	6.47	5.94	5.28	4.49	AQV101
	SPST-NO	700	40	1,500	0.3/0.5	—	6-SMD	255-2105-5-ND	6.47	5.94	5.28	4.49	AQV101A
	SPST-NO	700	40	1,500	0.3/0.5	—	6-SMD	255-2105-2-ND‡		3828.00/1,000			AQV101AZ
	SPST-NO	600	60	1,500	0.37/0.7	—	6-DIP	255-1946-ND	6.47	5.94	5.28	4.49	AQV102
	SPST-NO	600	60	1,500	0.37/0.7	—	6-SMD	255-1947-ND	6.47	5.94	5.28	4.49	AQV102A
7	SPST-NO	500	40	1,500	0.6/1.0	—	6-DIP	255-1948-ND	7.28	6.69	5.94	5.05	AQV201
	SPST-NO	500	40	1,500	0.6/1.0	—	6-SMD	255-1547-5-ND	7.28	6.69	5.94	5.05	AQV201A
	SPST-NO	500	40	1,500	0.6/1.0	—	6-SMD	255-1547-2-ND‡		4307.00/1,000			AQV201AZ
	SPST-NO	400	60	1,500	0.74/1.4	—	6-DIP	255-1548-5-ND	7.28	6.69	5.94	5.05	AQV202
	SPST-NO	400	60	1,500	0.74/1.4	—	6-SMD	255-2106-5-ND	7.28	6.69	5.94	5.05	AQV202A
	SPST-NO	200	250	1,500	5.5/8.0	—	6-SMD	255-1949-ND	7.28	6.69	5.94	5.05	AQV203A
	SPST-NO	150	400	1,500	12.4/16.0	—	6-DIP	255-2107-5-ND	7.28	6.69	5.94	5.05	AQV204
8	SPST-NO	130	350	1,500	23/35	Standard Version	6-DIP	255-1950-ND	4.41	4.05	3.60	3.06	AQV210
	SPST-NO	130	350	1,500	23/35	—	6-SMD	255-2950-ND ***NEW!***	4.41	4.05	3.60	3.06	AQV210A
	SPST-NO	130	350	1,500	23/35	Economy Version	6-DIP	255-1143-5-ND	2.77	2.55	2.26	1.93	AQV210E
	SPST-NO	130	350	1,500	23/35	Economy Version	6-SMD	255-1144-5-ND	2.79	2.57	2.28	1.94	AQV210EA
	SPST-NO	130	350	1,500	23/35	Economy Version	6-SMD	255-1144-2-ND‡		1653.00/1,000			AQV210EAX
	SPST-NO	130	350	5,000	23/35	Economy Version	6-DIP	255-1145-5-ND	2.99	2.75	2.44	2.08	AQV210EH
	SPST-NO	130	350	5,000	23/35	Economy Version	6-SMD	255-1146-5-ND	3.06	2.82	2.50	2.13	AQV210EHA
	SPST-NO	130	350	5,000	23/35	Economy Version	6-SMD	255-1146-2-ND‡		1813.00/1,000			AQV210EHAX
	SPST-NO	130	350	5,000	20/25	with Current Limit	6-DIP	255-1418-5-ND	6.03	5.54	4.92	4.19	AQV210HL
	SPST-NO	130	350	5,000	20/25	with Current Limit	6-SMD	255-1419-5-ND	5.73	5.27	4.68	3.98	AQV210HLA
	SPST-NO	120	350	1,500	23/35	—	6-SOP	255-1147-5-ND	4.68	4.30	3.82	3.25	AQV210S
	SPST-NO	120	350	1,500	23/35	—	6-SOP	255-1147-2-ND‡		2770.00/1,000			AQV210SX
	SPST-NO	550	60	1,500	0.83/2.5	—	6-DIP	255-1148-5-ND	4.41	4.05	3.60	3.06	AQV212
	SPST-NO	550	60	1,500	0.83/2.5	—	6-SMD	255-1149-5-ND	4.41	4.05	3.60	3.06	AQV212A
	SPST-NO	550	60	1,500	0.83/2.5	—	6-SMD	255-2108-2-ND‡		2610.00/1,000			AQV212AX
	SPST-NO	550	60	1,500	0.83/2.5	—	6-SMD	255-2109-2-ND‡		2610.00/1,000			AQV212AZ
	SPST-NO	500	60	1,500	0.83/2.5	—	6-SOP	255-1150-5-ND	4.68	4.30	3.82	3.25	AQV212S
	SPST-NO	500	60	1,500	0.83/2.5	—	6-SOP	255-2110-2-ND‡		2770.00/1,000			AQV212SX
	SPST-NO	500	60	1,500	0.83/2.5	—	6-SOP	255-2111-2-ND‡		2770.00/1,000			AQV212SZ
	SPST-NO	120	400	1,500	30/50	—	6-DIP	255-1151-5-ND	4.41	4.05	3.60	3.06	AQV214
	SPST-NO	120	400	1,500	30/50	—	6-SMD	255-1155-5-ND	4.41	4.05	3.60	3.06	AQV214A
	SPST-NO	120	400	5,000	30/50	High Isolator	6-DIP	255-1152-5-ND	4.73	4.35	3.86	3.29	AQV214H
	SPST-NO	120	400	5,000	30/50	High-Isolator	6-SMD	255-1951-ND	4.73	4.35	3.86	3.29	AQV214HA
	SPST-NO	120	400	1,500	30/50	Economy Version	6-DIP	255-1153-5-ND	2.77	2.55	2.26	1.93	AQV214E
	SPST-NO	120	400	1,500	30/50	Economy Version	6-SMD	255-1420-5-ND	2.79	2.57	2.28	1.94	AQV214EA
	SPST-NO	120	400	5,000	30/50	Economy Version	6-DIP	255-1154-5-ND	2.99	2.75	2.44	2.08	AQV214EH
	SPST-NO	120	400	5,000	30/50	Economy Version	6-SMD	255-1421-5-ND	3.06	2.82	2.50	2.13	AQV214EHA
	SPST-NO	100	400	1,500	30/50	—	6-SOP	255-1156-5-ND	4.68	4.30	3.82	3.25	AQV214S
	SPST-NO	100	400	1,500	30/50	—	6-SOP	255-2112-2-ND‡		2770.00/1,000			AQV214SX
	SPST-NO	100	400	1,500	30/50	—	6-SOP	255-2113-2-ND‡		2770.00/1,000			AQV214SZ
	SPST-NO	320	100	1,500	2.3/4.0	—	6-SMD	255-2114-5-ND	4.61	4.23	3.76	3.20	AQV215A
	SPST-NO	300	100	1,500	2.3/4.0	—	6-SOP	255-2115-5-ND	4.68	4.30	3.82	3.25	AQV215S
	SPST-NO	300	100	1,500	2.3/4.0	—	6-SOP	255-2116-2-ND‡		2770.00/1,000			AQV215SX
	SPST-NO	50	600	1,500	70/120	—	6-DIP	255-2669-ND ***NEW!***	4.61	4.23	3.76	3.20	AQV216
	SPST-NO	40	600	1,500	70/120	—	6-SOP	255-2118-5-ND	4.68	4.30	3.82	3.25	AQV216S
	SPST-NO	180	200	1,500	11/15	—	6-SMD	255-2119-2-ND‡		2726.00/1,000			AQV217AX
	SPST-NO	160	200	1,500	11/15	—	6-SOP	255-1467-5-ND	4.68	4.30	3.82	3.25	AQV217S
	SPST-NO	80	40	1,500	22/35	—	6-SMD	255-1164-2-ND‡		2944.00/1,000			AQV221AZ
	SPST-NO	50	80	1,500	36/50	—	6-DIP	255-2121-5-ND	4.97	4.57	4.06	3.46	AQV225
	SPST-NO	70	200	1,500	30/50	Low Leakage	6-SMD	255-1953-ND	5.44	5.00	4.44	3.78	AQV227NA
	SPST-NO	120	400	1,500	30/50	—	6-DIP	255-1551-5-ND	5.73	5.27	4.68	3.98	AQV234
	SPST-NO	120	400	1,500	30/50	—	6-SMD	255-2124-5-ND	5.73	5.27	4.68	3.98	AQV234A
	SPST-NO	500	40	1,500	0.6/1.0	—	6-DIP	255-1352-5-ND	5.61	5.16	4.58	3.90	AQV251
	SPST-NO	500	40	1,500	0.6/1.0	Economy Version	6-SMD	255-1552-5-ND	5.61	5.16	4.58	3.90	AQV251A
	SPST-NO	500	40	1,500	0.6/1.0	Economy Version	6-SMD	255-1552-2-ND‡		3321.00/1,000			AQV251AX
	SPST-NO	400	60	1,500	0.74/1.4	—	6-DIP	255-1353-5-ND	5.61	5.16	4.58	3.90	AQV252
	SPST-NO	400	60	1,500	0.74/1.4	Economy Version	6-SMD	255-1553-5-ND	5.61	5.16	4.58	3.90	AQV252A
	SPST-NO	2,500	60	1,500	0.08/0.12	Power Type	6-DIP	255-1791-5-ND	5.61	5.16	4.58	3.90	AQV252G
	SPST-NO	2,500	60	1,500	1.1/5.0	Power Type	6-SMD	255-1954-ND	5.61	5.16	4.58	3.90	AQV252GA
	SPST-NO	200	250	1,500	5.5/8.0	Economy Version	6-DIP	255-1554-5-ND	5.61	5.16	4.58	3.90	AQV253
	SPST-NO	200	250	1,500	5.5/8.0	Economy Version	6-DIP	255-2670-ND ***NEW!***	5.95	5.47	4.86	4.14	AQV253H
	SPST-NO	150	400	1,500	12.4/16	Economy Version	6-DIP	255-1555-5-ND	5.61	5.16	4.58	3.90	AQV254
	SPST-NO	150	400	1,500	12.4/16	Economy Version	6-SMD	255-1556-5-ND	5.61	5.16	4.58	3.90	AQV254A
	SPST-NO	150	400	5,000	12.4/16	Economy Version	6-DIP	255-1557-5-ND	5.95	5.47	4.86	4.14	AQV254H
	SPST-NO	150	400	5,000	12.4/16	Economy Version	6-SMD	255-2125-2-ND‡		3524.00/1,000			AQV254HAZ
	SPST-NO	350	100	1,500	12.4/16	Economy Version	6-DIP	255-1956-ND	5.61	5.16	4.58	3.90	AQV255
	SPST-NO	250	200	1,500	2.6/4.0	—	6-DIP	255-1354-5-ND	5.61	5.16	4.58	3.90	AQV257
	SPST-NO	250	200	1,500	2.6/4.0	—	6-DIP	255-1957-ND	5.61	5.16	4.58	3.90	AQV257A
	SPST-NO	250	200	1,500	2.6/4.0	Economy Version	6-SMD	255-1957-2-ND‡		3321.00/1,000			AQV257AX
	SPST-NO	20	1,500	1,500	345/500	Economy Version	6-DIP	255-1468-5-ND	6.32	5.81	5.16	4.39	AQV258
	SPST-NO	20	1,500	1,500	345/500	Economy Version	6-SMD	255-1558-5-ND	6.32	5.81	5.16	4.39	AQV258A
	SPST-NO	20	1,500	1,500	345/500	Economy Version	6-SMD	255-1558-2-ND‡		3741.00/1,000			AQV258AZ
	SPST-NO	20	1,500	5,000	345/500	Economy Version	6-SMD	255-2126-1-ND†	8.28	7.61	6.76	5.75	AQV258HAX
	SPST-NO	20	1,500	5,000	345/500	Economy Version	6-SMD	255-2126-2-ND‡		4901.00/1,000			AQV258HAX
	SPST-NO	30	1,000	1,500	85/200	Economy Version	6-DIP	255-1960-ND	6.57	6.03	5.36	4.56	AQV259

† Cut Tape ‡ Tape and Reel ◊ Tape and Box § See datasheet for dimensions

(Continued)

Fig.	Contact Arrangement	Load Current (Max.) mA	Load Voltage (Max.) V	Isolation Voltage	On Resistance (Min. / Max.) Ω	Features	Package	Digi-Key Part No.	Price Each				Panasonic Part No.
									1	25	50	100	
8	SPST-NO	30	1,000	1,500	85/200	Economy Version	6-SMD	255-2127-5-ND	6.57	6.03	5.36	4.56	AQV259A
	SPST-NO	30	1,000	5,000	85/200	Economy Version	6-SMD	255-1961-ND	6.62	6.08	5.40	4.59	AQV259HA
	SPST-NC	130	350	5,000	18/35	Economy Version	6-DIP	255-1422-5-ND	4.73	4.35	3.86	3.29	AQV410EH
	SPST-NC	130	350	5,000	18/35	Economy Version	6-SMD	255-1423-5-ND	4.73	4.35	3.86	3.29	AQV410EHA
	SPST-NC	130	350	5,000	18/35	Economy Version	6-SMD	255-1423-2-ND‡	2799.00/1,000				AQV410EHAX
	SPST-NC	120	400	1,500	26/50	—	6-DIP	255-1157-5-ND	4.92	4.53	4.02	3.42	AQV414
	SPST-NC	120	400	1,500	26/50	—	6-SMD	255-1559-5-ND	4.92	4.53	4.02	3.42	AQV414A
	SPST-NC	120	400	1,500	26/50	Economy Version	6-DIP	255-1469-5-ND	4.41	4.05	3.60	3.06	AQV414E
	SPST-NC	120	400	1,500	26/50	Economy Version	6-SMD	255-1470-5-ND	4.41	4.05	3.60	3.06	AQV414EA
	SPST-NC	120	400	5,000	26/50	Economy Version	6-DIP	255-1348-5-ND	4.73	4.35	3.86	3.29	AQV414EH
	SPST-NC	120	400	5,000	25.2/50	Economy Version	6-SMD	255-1424-5-ND	4.73	4.35	3.86	3.29	AQV414EHA
	SPST-NC	100	400	1,500	25.2/50	Economy Version	6-SOP	255-1962-ND	5.24	4.82	4.28	3.64	AQV414S
	SPST-NC	100	400	1,500	26/50	Economy Version	6-SOP	255-1962-2-ND‡	3103.00/1,000				AQV414SZ
	SPST-NC	200	250	1,500	5.5/8	Economy Version	6-DIP	255-1963-ND	5.98	5.49	4.88	4.15	AQV453
	SPST-NC	200	250	1,500	5.5/8	Economy Version	6-SMD	255-2128-5-ND	7.57	6.96	6.18	5.26	AQV453A
AQV Series Radio Frequency PhotoMOS Relays													
8	SPST-NO	80	40	1,500	22/35	—	6-DIP	255-1163-5-ND	4.97	4.57	4.06	3.46	AQV221
	SPST-NO	80	40	1,500	22/35	—	6-SMD	255-1164-5-ND	4.97	4.57	4.06	3.46	AQV221A
	SPST-NO	120	80	1,500	7/10	—	6-SOP	255-1549-5-ND	5.41	4.98	4.42	3.76	AQV225NS
	SPST-NO	50	200	1,500	30/50	—	6-SOP	255-1550-5-ND	5.41	4.98	4.42	3.76	AQV227NS
AQW Series General Purpose PhotoMOS Relays													
9	DPST-NO	120	350	1,500	23/35	Standard Version	8-DIP	255-2129-5-ND	7.40	6.80	6.04	5.14	AQW210
	DPST-NO	120	350	1,500	23/35	Standard Version	8-SMD	255-2130-5-ND	7.40	6.80	6.04	5.14	AQW210A
	DPST-NO	120	350	1,500	23/35	Standard Version	8-SMD	255-2130-2-ND‡	4379.00/1,000				AQW210AZ
	DPST-NO	120	350	5,000	18/25	Economy Version	8-DIP	255-1349-5-ND	6.05	5.56	4.94	4.20	AQW210EH
	DPST-NO	120	350	5,000	18/25	Economy Version	8-SMD	255-1425-5-ND	6.05	5.56	4.94	4.20	AQW210EHA
	DPST-NO	120	350	5,000	20/25	Current Limited	8-SMD	255-2131-5-ND	11.34	10.42	9.26	7.88	AQW210HLA
	DPST-NO	100	350	5,000	18/25	Economy Version	8-SOP	255-1964-ND	7.91	7.27	6.46	5.50	AQW210S
	DPST-NO	100	350	1,500	16/35	—	8-SOP	255-1964-2-ND‡	4684.00/1,000				AQW210SX
	DPST-NO	500	60	1,500	0.83/2.5	Economy Version	8-DIP	255-1965-ND	7.40	6.80	6.04	5.14	AQW212
	DPST-NO	500	60	1,500	0.83/2.5	—	8-SMD	255-1560-5-ND	7.40	6.80	6.04	5.14	AQW212A
	DPST-NO	500	60	1,500	0.83/2.5	—	8-SMD	255-2132-5-ND	7.18	6.60	5.86	4.99	AQW213EHA
	DPST-NO	100	400	1,500	30/50	—	8-DIP	255-1158-5-ND	7.40	6.80	6.04	5.14	AQW214
	DPST-NO	80	400	1,500	30/50	Standard Version	8-SMD	255-1160-5-ND	7.91	7.27	6.46	5.50	AQW214S
	DPST-NO	80	400	1,500	30/50	Standard Version	8-SOP	255-2134-2-ND‡	4684.00/1,000				AQW214SX
	DPST-NO	80	400	1,500	30/50	Standard Version	8-SOP	255-2135-2-ND‡	4684.00/1,000				AQW214SZ
	DPST-NO	100	400	1,500	30/50	Standard Version	8-SMD	255-1159-5-ND	7.40	6.80	6.04	5.14	AQW214A
	DPST-NO	100	400	1,500	30/50	Standard Version	8-SMD	255-1159-2-ND‡	4379.00/500				AQW214AZ
	DPST-NO	100	400	1,500	30/50	Economy Version	8-DIP	255-1426-5-ND	6.05	5.56	4.94	4.20	AQW214E
	DPST-NO	100	400	1,500	30/50	Economy Version	8-SMD	255-1427-5-ND	6.10	5.61	4.98	4.24	AQW214EA
	DPST-NO	100	400	1,500	30/50	Economy Version	8-SMD	255-1427-2-ND‡	3611.00/1,000				AQW214EAX
	DPST-NO	100	400	5,000	25/35	Economy Version	8-DIP	255-1966-ND	6.42	5.90	5.24	4.46	AQW214EH
	DPST-NO	100	400	5,000	25/35	Economy Version	8-SMD	255-2133-2-ND‡	3799.00/1,000				AQW214EHAX
	DPST-NO	300	100	1,500	2.3/4.0	Standard Version	8-DIP	255-1967-ND	7.40	6.80	6.04	5.14	AQW215
	DPST-NO	300	100	1,500	2.3/4.0	Standard Version	8-SOP	255-1968-ND	7.40	6.80	6.04	5.14	AQW215A
	DPST-NO	40	600	1,500	70/120	Standard Version	8-DIP	255-1561-5-ND	7.40	6.80	6.04	5.14	AQW216
	DPST-NO	40	600	1,500	70/120	Standard Version	8-SMD	255-1969-ND	7.40	6.80	6.04	5.14	AQW216A
	DPST-NO	160	200	1,500	70/120	Standard Version	8-DIP	255-1970-ND	7.40	6.80	6.04	5.14	AQW217
	DPST-NO	160	200	1,500	70/120	Standard Version	8-SMD	255-1971-ND	7.40	6.80	6.04	5.14	AQW217A
	DPST-NC	100	400	1,500	26/50	Standard Version	8-DIP	255-1161-5-ND	9.26	8.51	7.56	6.43	AQW414
	DPST-NC	100	400	1,500	26/50	Standard Version	8-SMD	255-1162-5-ND	9.26	8.51	7.56	6.43	AQW414A
	DPST-NC	100	400	5,000	26/35	Economy Version	8-DIP	255-1350-5-ND	7.99	7.34	6.52	5.55	AQW414EH
	DPST-NC	100	400	5,000	26/35	Economy Version	8-SMD	255-1428-5-ND	7.99	7.34	6.52	5.55	AQW414EHA
10	DPST-NO	120	350	5,000	18/25	Economy Version	8-DIP	255-2951-ND ***NEW!***	6.05	5.56	4.94	4.20	AQW210E
	DPST-NO	100	400	5,000	26/35	Economy Version	8-SMD	255-2952-ND ***NEW!***	6.42	5.90	5.24	4.46	AQW214EHA
	DPST-NO	40	600	5,000	52/120	Economy Version	8-SMD	255-2671-ND ***NEW!***	5.88	5.40	4.80	4.08	AQW216EHA
	DPST-NO	120	400	1,500	10/16	High Sensitivity	8-DIP	255-1975-ND	9.38	8.62	7.66	6.52	AQW254
	DPST-NO	120	400	1,500	10/16	High Sensitivity	8-SMD	255-1976-ND	9.38	8.62	7.66	6.52	AQW254A
	DPST-NO	120	400	1,500	10.2/16	High Sensitivity	8-SMD	255-2138-2-ND‡	5554.00/1,000				AQW254AZ
	DPST-NO	120	350	5,000	20/25	Economy Version	8-DIP	255-2672-ND ***NEW!***	3.75	3.45	3.06	2.61	AQW280EH
	DPST-NO	100	350	1,500	20/25	Standard Version	8-SOP	255-2673-ND ***NEW!***	3.21	2.95	2.62	2.23	AQW280S
	DPST-NO	400	60	5,000	0.85/2.5	Economy Version	8-DIP	255-2674-ND ***NEW!***	4.04	3.72	3.30	2.81	AQW282EH
	DPST-NO	350	60	1,500	0.85/2.5	Standard Version	8-SOP	255-2675-ND ***NEW!***	3.70	3.40	3.02	2.57	AQW282S
	DPST-NO	100	400	5,000	28/35	Economy Version	8-DIP	255-2676-ND ***NEW!***	4.04	3.72	3.30	2.81	AQW284EH
	DPST-NO	80	400	1,500	28/35	Standard Version	8-SOP	255-2677-ND ***NEW!***	3.92	3.60	3.20	2.72	AQW284S
	DPST-NO	120	400	1,500	11/16	Economy Version	8-SMD	255-2957-ND ***NEW!***	11.39	10.47	9.30	7.91	AQW454A
	DPDT-NO/NC	120	350	5,000	18/25	Economy Version	8-DIP	255-1471-5-ND	6.59	6.06	5.38	4.58	AQW610EH
	DPDT-NO/NC	120	350	5,000	18/25	Economy Version	8-SMD	255-1472-5-ND	6.59	6.06	5.38	4.58	AQW610EHA
	DPDT-NO/NC	100	350	1,500	18/25	Standard Version	8-SMD	255-1978-ND	9.87	9.07	8.06	6.86	AQW610S
	DPDT-NO/NC	500	60	5,000	1.0/2.5	Economy Version	8-DIP	255-1979-ND	8.82	8.10	7.20	6.12	AQW612EH
	DPDT-NO/NC	450	60	1,500	1.0/2.5	Standard Version	8-SOP	255-2678-ND ***NEW!***	13.57	12.47	11.08	9.42	AQW612S
	DPDT-NO/NC	100	400	1,500	26/35	Economy Version	8-DIP	255-1980-ND	9.26	8.51	7.56	6.43	AQW614
	DPST-NC	100	400	1,500	27/50	Economy Version	8-SMD	255-2140-5-ND	9.26	8.51	7.56	6.43	AQW614A
	DPST-NC	100	400	1,500	27/50	Economy Version	8-DIP	255-2958-ND ***NEW!***	6.59	6.06	5.38	4.58	AQW614E
	DPST-NC	100	400	1,500	27/50	Economy Version	8-SMD	255-2959-ND ***NEW!***	6.59	6.06	5.38	4.58	AQW614EA
	DPST-NC	100	400	5,000	26/35	Economy Version	8-DIP	255-1351-5-ND	6.59	6.06	5.38	4.58	AQW614EH
	DPST-NC	100	400	5,000	26/35	Economy Version	8-SMD	255-1429-5-ND	6.59	6.06	5.38	4.58	AQW614EHA
	DPST-NC	120	400	1,500	11/16	Economy Version	8-DIP	255-2960-ND ***NEW!***	11.39	10.47	9.30	7.91	AQW654
	DPST-NC	120	400	1,500	11/16	Economy Version	8-SMD	255-2142-5-ND	11.39	10.47	9.30	7.91	AQW654A
	DPST-NC	120	400	1,500	11/16	Economy Version	8-SMD	255-2142-2-ND‡	6743.00/1,000				AQW654AZ
AQW Series Radio Frequency PhotoMOS Relays													
9	DPST-NO	40	400	1,500	70/100	Low On Resistance	8-SMD	255-2136-5-ND	9.16	8.42	7.48	6.36	AQW224NA
	DPST-NO	40	400	1,500	70/100	Low On Resistance	8-SMD	255-2137-2-ND‡	5423.00/1,000				AQW224NAX
10	DPST-NO	50	200	1,500	30/50	Low On Resistance	8-DIP	255-1973-ND	9.16	8.42	7.48	6.36	AQW227N
	DPST-NO	50	200	1,500	30/50	Low On Resistance	8-SMD	255-1974-ND	9.16	8.42	7.48	6.36	AQW227NA
AQY Series PhotoMOS Relays													
11	SPST-NO	130	350	5,000	18/25	Economy Version	4-DIP	255-1430-5-ND	3.16	2.91	2.58	2.20	AQY210EH
	SPST-NO	130	350	5,000	18/25	Economy Version	4-SMD	255-1431-5-ND	3.16	2.91	2.58	2.20	AQY210EHA
	SPST-NO	120	350	5,000	20/25	Economy Version	4-DIP	255-2961-ND ***NEW!***	6.84	6.28	5.58	4.75	AQY210HL
	SPST-NO	120	350	5,000	20/25	Economy Version	4-SMD	255-2962-ND ***NEW!***	6.84	6.28	5.58	4.75	AQY210HLA

† Cut Tape ‡ Tape and Reel ◊ Tape and Box § See datasheet for dimensions

(Continued)

Fig.	Contact Arrangement	Load Current (Max.) mA	Load Voltage (Max.) V	Isolation Voltage	On Resistance (Min. / Max.) Ω	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
11	SPST-NO	120	350	1,500	20/25	With Current Limit	4-SOP	255-1433-5-ND	6.71	6.17	5.48	4.66	AQY210LS
	SPST-NO	120	350	1,500	20/25	With Current Limit	4-SOP	255-1433-2-ND‡		3973.00/1,000			AQY210LSX
	SPST-NO	120	350	1,500	23.5/35	With Protection	4-SOP	255-1432-5-ND	6.66	6.12	5.44	4.63	AQY210KS
	SPST-NO	120	350	1,500	23.5/35	With Protection	4-SOP	255-1432-2-ND‡		3944.00/1,000			AQY210KSZ
	SPST-NO	120	350	1,500	17/25	—	4-SOP	255-1434-5-ND	4.88	4.48	3.98	3.39	AQY210S
	SPST-NO	120	350	1,500	17/25	—	4-SOP	255-2143-2-ND‡		2886.00/1,000			AQY210SX
	SPST-NO	120	350	1,500	17/25	—	4-SOP	255-2144-2-ND‡		2886.00/1,000			AQY210SZ
	SPST-NO	550	60	5,000	18/25	—	4-DIP	255-2963-ND ***NEW!***	4.73	4.35	3.86	3.29	AQY212EH
	SPST-NO	1,000	60	1,500	0.34/0.7	—	4-SOP	255-1792-5-ND	5.98	5.49	4.88	4.15	AQY212GS
	SPST-NO	1,100	60	5,000	0.34/0.7	—	4-DIP	255-2680-ND ***NEW!***	5.54	5.09	4.52	3.85	AQY212GH
	SPST-NO	1,100	60	5,000	0.34/0.7	—	4-DIP	255-2681-ND ***NEW!***	5.54	5.09	4.52	3.85	AQY212GHA
	SPST-NO	120	400	5,000	26/35	Economy Version	4-DIP	255-1435-5-ND	2.28	2.10	1.86	1.59	AQY214EH
	SPST-NO	120	400	5,000	26/35	Economy Version	4-SMD	255-1436-5-ND	2.28	2.10	1.86	1.59	AQY214EHA
	SPST-NO	100	400	1,500	25/35	—	4-SOP	255-1437-5-ND	4.88	4.48	3.98	3.39	AQY214S
	SPST-NO	100	400	1,500	25/35	—	4-SOP	255-2145-2-ND‡		2886.00/1,000			AQY214SX
	SPST-NO	100	400	1,500	25/35	—	4-SOP	255-2146-2-ND‡		2886.00/1,000			AQY214SZ
	SPST-NO	350	80	1,500	0.8/1.2	High Speed/Low CXR	4-SOP	255-2687-ND ***NEW!***	8.04	7.38	6.56	5.58	AQY225R1S
	SPST-NO	150	80	1,500	10.5/15	High Speed/Low CXR	4-SOP	255-2688-ND ***NEW!***	8.04	7.38	6.56	5.58	AQY225R2S
	SPST-NO	120	80	1,500	10.5/15	High Speed/Low CXR	4-SSOP	255-2689-ND ***NEW!***	7.99	7.34	6.52	5.55	AQY225R2V
	SPST-NO	500	60	1,500	0.85/2.5	High Speed/Low CXR	4-SOP	255-2690-1-ND† ***NEW!***	3.26	3.00	2.66	2.27	AQY232SZ
	SPST-NO	500	60	1,500	0.85/2.5	High Speed/Low CXR	4-SOP	255-2690-2-ND‡ ***NEW!***		1928.50/1,000			AQY232SZ
	SPST-NO	2,000	60	2,500	0.11/0.18	High Speed/Low CXR	4-DIP	255-2691-ND ***NEW!***	13.35	12.27	10.90	9.27	AQY272
	SPST-NO	2,000	60	2,500	0.11/0.18	—	4-SMD	255-1563-5-ND§	13.35	12.27	10.90	9.27	AQY272A
	SPST-NO	350	400	2,500	2.1/3.2	—	4-DIP Wide	255-1564-5-ND	13.35	12.27	10.90	9.27	AQY274
	SPST-NO	350	400	2,500	2.1/3.2	—	4-SMD	255-2692-ND ***NEW!***	13.35	12.27	10.90	9.27	AQY274A
	SPST-NO	1,300	100	2,500	0.23/0.34	—	4-DIP	255-2964-ND ***NEW!***	13.35	12.27	10.90	9.27	AQY275
	SPST-NO	1,300	100	2,500	0.23/0.34	—	4-SMD	255-1565-5-ND§	13.35	12.27	10.90	9.27	AQY275A
	SPST-NO	650	200	2,500	0.7/1.1	—	4-DIP	255-2965-ND ***NEW!***	13.35	12.27	10.90	9.27	AQY277
	SPST-NO	650	200	2,500	0.23/0.34	—	4-SMD	255-1566-5-ND§	13.35	12.27	10.90	9.27	AQY277A
	SPST-NO	120	350	1,500	20/25	Economy Version	4-DIP	255-2693-ND ***NEW!***	1.84	1.69	1.50	1.28	AQY280EH
	SPST-NO	120	350	1,500	20/25	—	4-SOP	255-2694-ND ***NEW!***	1.59	1.47	1.30	1.11	AQY280S
	SPST-NO	500	60	1,500	0.85/2.5	Economy Version	4-DIP	255-2695-ND ***NEW!***	1.98	1.83	1.62	1.38	AQY282EH
	SPST-NO	500	60	1,500	0.85/2.5	—	4-SOP	255-1795-5-ND	1.91	1.76	1.56	1.33	AQY282S
	SPST-NO	100	400	1,500	28/35	Economy Version	4-DIP	255-2696-ND ***NEW!***	1.98	1.83	1.62	1.38	AQY284EH
	SPST-NO	100	400	1,500	28/35	—	4-SOP	255-1796-5-ND	1.94	1.78	1.58	1.35	AQY284S
	SPST-NC	130	350	5,000	18/25	Economy Version	4-DIP	255-1983-ND	4.73	4.35	3.86	3.29	AQY410EH
	SPST-NC	120	350	1,500	18/25	—	4-SOP	255-1438-5-ND	5.44	5.00	4.44	3.78	AQY410S
	SPST-NC	120	350	1,500	18/25	—	4-SOP	255-1438-2-ND‡		3219.00/1,000			AQY410SX
	SPST-NC	500	60	1,500	1.0/2.5	—	4-SOP	255-2697-ND ***NEW!***	6.52	5.99	5.32	4.53	AQY412S
	SPST-NC	120	60	5,000	26/35	Economy Version	4-DIP	255-1984-ND	4.73	4.35	3.86	3.29	AQY414EH
	SPST-NC	120	400	5,000	26/35	Economy Version	4-SMD	255-2897-ND ***NEW!***	4.73	4.35	3.86	3.29	AQY414EHA
	SPST-NC	100	400	1,500	26/35	—	4-SOP	255-1439-5-ND	5.44	5.00	4.44	3.78	AQY414S
	SPST-NC	100	400	1,500	26/35	—	4-SOP	255-2152-2-ND‡		3219.00/1,000			AQY414SX
	SPST-NC	100	400	1,500	26/35	—	4-SOP	255-2153-2-ND‡		3219.00/1,000			AQY414SZ
AQZ Series Power PhotoMOS Relays													
12	SPST-NO	4,000	60	2,500	0.05/0.09	—	4-SIP	255-1567-ND	9.68	8.89	7.90	6.72	AQZ102
	SPST-NO	2,600	100	2,500	0.08/0.17	—	4-SIP	255-1568-ND	9.68	8.89	7.90	6.72	AQZ105
	SPST-NO	1,300	200	2,500	0.34/0.55	—	4-SIP	255-2698-ND ***NEW!***	9.68	8.89	7.90	6.72	AQZ107
5	SPST-NO	3,000	60	2,500	0.11/0.18	—	4-SIP	255-1569-ND	10.49	9.63	8.56	7.28	AQZ202
	SPST-NO	500	400	2,500	2.1/3.2	—	4-SIP	255-1985-ND	10.49	9.63	8.56	7.28	AQZ204
	SPST-NO	2,000	100	2,500	0.23/0.34	—	4-SIP	255-1570-ND	10.49	9.63	8.56	7.28	AQZ205
	SPST-NO	1,800	100	2,500	2.4/3.2	Volt Sensing	4-SIP	255-1987-ND	12.27	11.28	10.02	8.52	AQZ205D
	SPST-NO	1,000	200	2,500	0.70/1.10	—	4-SIP	255-1571-ND	10.49	9.63	8.56	7.28	AQZ207
	SPST-NO	6,000	60	1,500	0.036/0.05	—	4-SIP	255-2699-ND ***NEW!***	33.44	30.72	27.30	23.21	AQZ262
	SPST-NC	500	400	2,500	2.8/4.0	—	4-SIP	255-2154-5-ND	14.33	13.17	11.70	9.95	AQZ404
NEW! AQS Series Relays NEW!													
13	4PST	160	40	500	12.5/1.0	With Built-in Resistors	16-SOP	255-2666-ND	34.28	31.48	27.98	23.79	AQS221FN2S
	4PST	60	40	500	1.25/12.5	With Built-in Resistors	16-SOP	255-2667-ND	37.12	34.09	30.30	25.76	AQS221FR2S
	4PST	70	80	1,500	10.5/15	With Built-in Resistors	16-SOP	255-2668-ND	28.76	26.42	23.48	19.96	AQS225R2S
NEW! APV Series Relays NEW!													
2	SPST-NO	14μA	8.7	2,500	—	Mosfet Driver	4-SOP	255-2656-ND	2.35	2.16	1.92	1.64	APV1121S
	SPST-NO	8μA	8.2	2,500	—	Mosfet Driver	6-DIP	255-2658-ND	1.86	1.71	1.52	1.30	APV2121S
8	SPST-NO	14μA	8.7	5,000	—	Mosfet Driver	6-DIP	255-2657-ND	3.90	3.58	3.18	2.71	APV1122
NEW! Solid State Relay Accessories NEW!													
Standard Heat Sink for AQ-A								255-2665-ND	30.85	28.33	25.18	21.41	AQP-HS-30/40A
DIN Rail Mounting Plate for AQ-A								255-2664-ND	7.60	6.98	6.20	5.27	AQP-DP

† Cut Tape ‡ Tape and Reel ◊ Tape and Box § See datasheet for dimensions

SIP Conformal Coated Solid State Relays

AQ2 SIP SSRs are designed as suitable drivers for AC motors, solenoids, valves, etc. These offer excellent noise resistance with an integrated snubber circuit and ultra thin body (only 9mm) for maintenance-free, long life switching. Zero-Cross is a low noise switching output whereas Phase Controlled are ideal for applications such as motor speed control and light dimming.

Contact Arrange-ment	Input Voltage (DC) (min./max.)	Dropout Voltage (min.)	Output Current (A) (min./max.)	Output Voltage (AC) (min./max.)	Type	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
SPST-NO	3/28	0.8	0.025/2	75/250	Zero-Cross	255-2659-ND ***NEW!***	17.98	16.52	14.68	12.48	AQ2A2-ZP3/28VDC
	4/6	0.5	0.025/2	75/250	Zero-Cross	255-1168-ND	14.92	13.71	12.18	10.36	AQ2A2-C1-ZT5VDC
	21.6/26.4	2.4	0.025/2	75/250	Zero-Cross	255-1170-ND	14.92	13.71	12.18	10.36	AQ2A2-C1-ZT24VDC
	4/6	0.5	0.025/2	75/250	Phase Controlled	255-1174-ND	11.76	10.80	9.60	8.16	AQ2A2-C1-T5VDC
	9.6/14.4	1.2	0.025/2	75/250	Phase Controlled	255-1175-ND	11.76	10.80	9.60	8.16	AQ2A2-C1-T12VDC
	21.6/26.4	2.4	0.025/2	75/250	Phase Controlled	255-1176-ND	11.76	10.80	9.60	8.16	AQ2A2-C1-T24VDC

Dimensions in mm

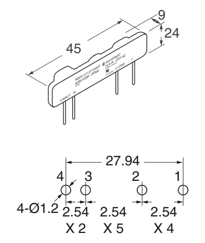

(C1 Package Shown)

AQR Solid State Relays

Features:
- SSRs are designed for Power Switching applications such as heater control, printing machines and machine tool controls
- High dielectric strength of 1,500V between input and output

Input Voltage	Output Voltage	Output Current (A)	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
4 ~ 6	75 ~ 250	30	Screw Terminal	255-1542-ND	55.18	48.06	46.28	44.50	AQR30A2-S-Z4/6VDC

Dimensions in mm

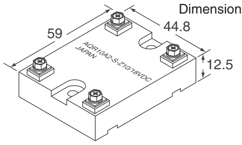

SHARP
MICROELECTRONICS OF THE AMERICAS

Solid State Relays

Digi-Reel®

Fig. 1

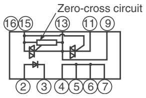

Fig. 2

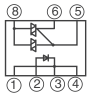

Fig. 3

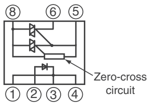

Fig. 4

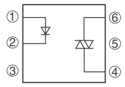

Fig. 5

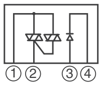

Fig. 6

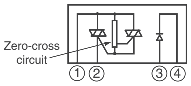

Fig. 7

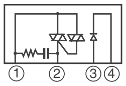

Fig. 8

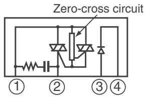

Fig. 9

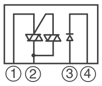

Fig. 10

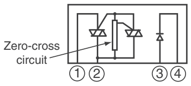

Fig.	Input			Output								
	Voltage Typical	Current (mA) Min.	Current (mA) Max.	Voltage VRMS Max.	Current IT (RMS) (A)	Holding Current (mA) Max.	Package Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sharp Part No.
1	1.2	5	50	120	1.5	25	16-Dip	425-1182-5-ND	2.13	1.79	1.28	PR21HD22NSZ
2	1.2	10	50	120	0.3	25	8-Dip	425-2603-5-ND◆	.92	.77	.62	PR23MF11NSZF
	1.2	10	50	120	0.9	25	8-Dip	425-1186-5-ND	1.18	.99	.71	PR29MF11NSZ
	1.2	10	50	240	0.3	25	8-Dip	425-2647-5-ND◆	.90	.75	.60	PR33MF51NSZF
	1.2	10	25	240	0.6	25	8-Dip	425-2369-5-ND◆	1.50	1.25	1.00	PR36MF12NSZF
	1.2	10	50	240	0.9	25	8-Dip	425-2561-5-ND◆	1.38	1.15	.92	PR39MF51NSZF
	1.2	10	50	240	1.2	25	8-Dip	425-2562-5-ND◆	1.65	1.38	1.10	PR3BMF51NSKF
	1.2	5	50	240	0.9	25	8-Dip	425-2373-5-ND◆	1.68	1.40	1.12	PR39MF12NSZF
	1.2	10	50	120	0.6	25	8-SMD	425-2359-1-ND◆†	1.20	1.00	.80	PR26MF11NIPF
	1.2	10	50	120	0.6	25	8-SMD	425-2359-2-ND◆‡		560.00/1,000		PR26MF11NIPF
	1.2	10	50	120	0.6	25	8-Dip	425-2360-5-ND◆	1.17	.98	.78	PR26MF11NSZF
	1.2	5	50	120	0.6	25	8-Dip	425-2361-5-ND◆	1.20	1.00	.80	PR26MF12NSZF
	1.2	10	50	120	0.9	25	8-Dip	425-2363-5-ND◆	1.41	1.18	.94	PR29MF11NSZF
	1.2	5	50	120	0.9	25	8-Dip	425-2364-5-ND◆	1.44	1.20	.96	PR29MF12NSZF
3	1.2	10	50	120	0.6	25	8-Dip	425-2362-5-ND◆	1.44	1.20	.96	PR26MF21NSZF
	1.2	10	50	120	0.9	25	8-Dip	425-2365-5-ND◆	1.56	1.30	1.04	PR29MF21NSZF
	1.2	10	50	240	0.6	25	8-Dip	425-2370-5-ND◆	1.50	1.25	1.00	PR36MF21NSZF
	1.2	5	50	240	0.6	25	8-Dip	425-2371-5-ND◆	1.65	1.38	1.10	PR36MF22NSZF
	1.2	10	50	240	0.9	25	8-Dip	425-2374-5-ND◆	1.74	1.45	1.16	PR39MF21NSZF
	1.2	5	50	240	0.9	25	8-Dip	425-2375-5-ND◆	1.83	1.53	1.22	PR39MF22NSZF
4	1.2	10	50	120	0.15	3.5	6-SMD	425-2664-1-ND◆†	.84	—	.47	PR22MA11NXPF
	1.2	10	50	240	0.06	3.5	6-Dip	425-2367-5-ND◆	1.22	1.02	.82	PR31MA11NTZF
	1.2	10	50	120	0.15	3.5	6-Dip	425-2602-5-ND◆	.68	.57	.41	PR22MA11NTZF
	1.2	10	50	240	0.15	3.5	6-Dip	425-2604-5-ND◆	.99	.79	.55	PR32MA11NTZF
5	1.2	15	50	120	3	50	4-SIP	425-2386-5-ND◆	4.43	3.55	2.93	S101S05F
	1.2	8	50	240	8	50	4-SIP	425-2402-5-ND◆	4.50	3.60	2.97	S202S01F
	1.2	8	50	240	12	50	4-SIP	425-2412-5-ND◆	6.32	5.06	4.18	S212S01F
6	1.2	15	50	120	3	50	4-SIP	425-2387-5-ND◆	4.28	3.42	2.83	S101S06F
	1.2	15	50	240	3	50	4-SIP	425-1244-5-ND◆	4.60	3.68	3.04	S201S06F
	1.2	8	50	240	8	50	4-SIP	425-2403-5-ND◆	5.25	4.20	3.47	S202S02F
	1.2	8	50	240	16	50	4-SIP	425-2414-ND◆	6.45	5.16	4.26	S216S02F
7	1.2	8	50	120	8	50	4-SIP	425-2391-5-ND◆	8.15	6.52	5.38	S102S11F
8	1.2	8	50	240	8	50	4-SIP	425-2405-5-ND◆	9.40	7.52	6.21	S202S12F
9	1.2	8	50	120	8	50	4-SIP	425-2395-5-ND◆	4.13	3.30	2.73	S108T01F
	1.2	8	50	240	2	25	4-SIP	425-2408-5-ND◆	4.00	3.20	2.64	S202T01F
10	1.2	8	50	120	8	50	4-SIP	425-2396-5-ND◆	4.56	3.65	3.01	S108T02F
	1.2	8	50	240	2	25	4-SIP	425-2409-5-ND◆	4.40	3.52	2.91	S202T02F

◆ ***RoHS Compliant*** † Cut Tape ‡Tape and Reel

TOSHIBA
Leading Innovation >>>

PhotoRelay Photocouplers

Digi-Reel® RoHS COMPLIANT

Fig. 1

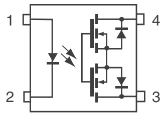

Fig. 2

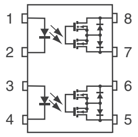

Fig. 3

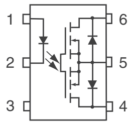

Fig. 4

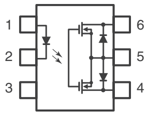

Fig.	Input Current				Output Circuit Imax	Ton/Toff (ms/ms)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Toshiba Part No.
	Vf (led)	Imin (mA)	Imax (mA)	VRange (V)					1	10	100		Qty.	Pricing	
1	1.15	5	25	0 ~ 60	400mA	2/0.5	4-SOP	TLP172AF-ND	1.50	1.20	.90	—	—	—	TLP172A(F)
	1.15	5	25	0 ~ 350	110mA	1/1	4-SOP	TLP172GF-ND	1.50	1.20	.90	—	—	—	TLP172G(F)
	1.15	5	25	0 ~ 280	110mA	1/1	4-SOP	TLP172GFCT-ND†	1.68	1.34	1.01	TLP172GFTR-ND	2,500	857.60/M	TLP172G(TP,F)
	1.15	5	25	0 ~ 48	400mA	2/1	4-SOP	TLP176AF-ND	2.35	1.88	1.41	—	—	—	TLP176A(F)
	1.15	5	25	0 ~ 200	200mA	1.5/1.0	4-SOP	TLP176DF-ND	2.35	1.88	1.41	—	—	—	TLP176D(F)
	1.15	5	25	0 ~ 280	120mA	1/1	4-SOP	TLP176GF-ND	2.35	1.88	1.41	—	—	—	TLP176G(F)

† Cut Tape

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PhotoRelay Photocouplers *(Cont.)*

Fig.	Input Current				Output Circuit Imax	Ton/Toff (ms/ms)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Toshiba Part No.
	Vf (led)	Imin (mA)	Imax (mA)	VRange (V)					1	10	100		Qty.	Pricing	
1	1.15	5	25	0 ~ 320	120mA	1/1	4-SOP	TLP176GAF-ND	2.34	1.88	1.46	—	—	—	TLP176GA(F)
	1.15	5	15	0 ~ 160	50mA	0.5/0.2	4-SOP	TLP179DF-ND	2.48	1.98	1.54	—	—	—	TLP179D(F)
	1.15	5	25	0 ~ 60	500mA	2/0.5	4-Dip	TLP222AF-ND	1.35	1.13	.90	—	—	—	TLP222A(F)
	1.15	5	25	0 ~ 350	120mA	0.3/0.1	4-Dip	TLP222GF-ND	1.13	.90	.68	—	—	—	TLP222G(F)
	1.15	5	25	0 ~ 280	120mA	1/1	4-Dip	TLP224G(F)-ND ***NEW!***	2.08	1.88	1.51	—	—	—	TLP224G(F)
	1.15	5	25	0 ~ 280	120mA	1/1	8-Dip	TLP224G-2F-ND	3.71	2.97	2.31	—	—	—	TLP224G-2(F)
	1.15	5	25	0 ~ 48	500mA	2/1	4-Dip	TLP227AF-ND	1.50	1.20	.90	—	—	—	TLP227A(F)
	1.15	5	25	0 ~ 280	120mA	1/1	4-Dip	TLP227G(F)-ND ***NEW!***	2.02	1.82	1.47	—	—	—	TLP227G(F)
	1.15	5	25	0 ~ 350	120mA	1/1	4-Dip	TLP227GNF-ND	1.63	1.30	.98	—	—	—	TLP227G(N,F)
	1.15	5	25	0 ~ 320	120mA	1/1	4-Dip	TLP227GAF-ND	2.00	1.60	1.20	—	—	—	TLP227GA(F)
	1.15	10	30	0 ~ 32	80mA	500µs/500µs	4-SOP	TLP3113F-ND	3.94	3.15	2.45	—	—	—	TLP3113(F)
	1.15	10	30	0 ~ 32	250mA	500µs/500µs	4-SOP	TLP3114F-ND	3.94	3.15	2.45	—	—	—	TLP3114(F)
	1.15	10	30	0 ~ 32	300mA	500µs/500µs	4-SOP	TLP3115F-ND	3.94	3.15	2.45	—	—	—	TLP3115(F)
	1.15	10	30	0 ~ 32	120mA	500µs/500µs	4-SOP	TLP3116F-ND	3.94	3.15	2.45	—	—	—	TLP3116(F)
	1.15	5	30	0 ~ 32	40mA	500µs/500µs	4-SOP	TLP3118F-ND	3.94	3.15	2.45	—	—	—	TLP3118(F)
	1.15	5	30	0 ~ 32	200mA	500µs/500µs	4-SOP	TLP3119F-ND	3.94	3.15	2.45	—	—	—	TLP3119(F)
	1.15	5	20	0 ~ 32	350mA	500µs/500µs	4-SOP	TLP3121F-ND	3.94	3.15	2.45	—	—	—	TLP3121(F)
	1.15	5	20	0 ~ 48	1A	3/1	4-SOP	TLP3122F-ND	3.94	3.15	2.45	—	—	—	TLP3122(F)
	1.33	5	20	0 ~ 32	1A	3/0.5	4-SOP	TLP3123F-ND	3.94	3.15	2.45	—	—	—	TLP3123(F)
	1.15	10	30	0 ~ 20	160mA	500µs/500µs	4-SOP	TLP3130F-ND	3.94	3.15	2.45	—	—	—	TLP3130(F)
	1.15	10	30	0 ~ 20	300mA	500µs/500µs	4-SOP	TLP3131F-ND	3.94	3.15	2.45	—	—	—	TLP3131(F)
	1.15	10	30	0 ~ 20	300mA	500µs/500µs	4-SOP	TLP3131FCT-ND†	3.94	3.15	2.45	TLP3131FTR-ND	2,500	2205.00/M	TLP3131(TP,F)
	1.15	10	30	0 ~ 32	80mA	500µs/500µs	4-SSOP	TLP3213FCT-ND†	3.70	2.96	2.50	TLP3213FTR-ND	1,500	2358.76/M	TLP3213(TP15,F)
	1.15	10	30	0 ~ 32	300mA	500µs/500µs	4-SSOP	TLP3215FCT-ND†	3.70	2.96	2.50	TLP3215FTR-ND	1,500	2358.76/M	TLP3215(TP15,F)
	1.15	5	50	0 ~ 80	120mA	500µs/200µs	4-SSOP	TLP3217FCT-ND†	3.70	2.96	2.50	—	—	—	TLP3217(TP15,F)
	1.15	10	30	0 ~ 80	80mA	300µs/300µs	4-SSOP	TLP3220FCT-ND†	3.70	2.96	2.50	TLP3220FTR-ND	1,500	2358.76/M	TLP3220(TP15,F)
	1.15	10	30	0 ~ 20	450mA	500µs/500µs	4-SSOP	TLP3231FCT-ND†	3.70	2.96	2.50	TLP3231FTR-ND	1,500	2358.76/M	TLP3231(TP15,F)
	1.30	—	20	0 ~ 40	120mA	200µs/200µs	4-SSOP	TLP3240TP15FCT-ND†	3.70	2.96	2.50	TLP3240TP15FTR-ND	1,500	2358.76/M	TLP3240(TP15,F)
	1.30	—	20	0 ~ 40	140mA	200µs/200µs	4-SSOP	TLP3241TP15FCT-ND†	3.70	2.96	2.50	—	—	—	TLP3241(TP15,F)
	1.30	—	20	0 ~ 20	200mA	200µs/200µs	4-SSOP	TLP3250TP15FCT-ND†	3.70	2.96	2.50	TLP3250TP15FTR-ND	1,500	2358.76/M	TLP3250(TP15,F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	4-SOP	TLP4172GFCT-ND†	2.25	1.80	1.40	TLP4172GFTR-ND	2,500	1260.00/M	TLP4172G(TP,F)
	1.15	5	25	0 ~ 280	120mA	1/3	4-SOP	TLP4176GFCT-ND†	2.75	2.20	1.71	TLP4176GFTR-ND	2,500	1537.20/M	TLP4176G(TP,F)
	1.15	5	25	0 ~ 280	150mA	1/3	4-Dip	TLP4227GF-ND	2.13	1.70	1.28	—	—	—	TLP4227G(F)
2	1.15	5	25	0 ~ 320	120mA	1/1	8-SOP	TLP206GAF-ND	3.15	2.52	1.96	—	—	—	TLP206GA(F)
	1.15	5	15	0 ~ 160	50mA	0.5/0.2	8-SOP	TLP209DF-ND	2.59	2.07	1.61	—	—	—	TLP209D(F)
	1.15	5	25	0 ~ 48	500mA	2/0.5	8-Dip	TLP222A-2F-ND	2.25	1.80	1.35	—	—	—	TLP222A-2(F)
	1.15	5	25	0 ~ 280	120mA	1/1	8-Dip	TLP222G-2F-ND	2.25	1.80	1.35	—	—	—	TLP222G-2(F)
	1.15	5	25	0 ~ 350	120mA	1/1	8-SMD	TLP227G2NFCT-ND†	1.80	1.44	1.12	TLP227G2NFTR-ND	1,500	1040.00/M	TLP227G-2(TP1,N,F)
	1.15	5	25	0 ~ 320	120mA	1/1	8-Dip	TLP227GA-2F-ND	3.83	3.06	2.38	—	—	—	TLP227GA-2(F)
	1.15	5	25	0 ~ 320	200mA	2/1	8-SOP	TLP3125F-ND	3.94	3.15	2.45	—	—	—	TLP3125(F)
	1.15	5	50	0 ~ 350	120mA	1/3	8-Dip	TLP4006GF-ND	3.38	2.70	2.10	—	—	—	TLP4006G(F)
	1.15	5	25	0 ~ 280	100mA	1/1	8-Dip	TLP4007GF-ND	2.25	1.80	1.40	—	—	—	TLP4007G(F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	8-SOP	TLP4202GFCT-ND†	3.83	3.06	2.38	TLP4202GFTR-ND	2,500	2142.00/M	TLP4202G(TP,F)
	1.15	5	25	0 ~ 280	120mA	1/1	8-SOP	TLP4026GF-ND	4.50	3.60	2.80	—	—	—	TLP4026G(F)
	1.15	5	25	0 ~ 280	90mA	1/1	8-SOP	TLP4027GFCT-ND†	3.49	2.79	2.17	TLP4027GFTR-ND	2,500	1953.00/M	TLP4027G(TP,F)
	1.15	5	25	0 ~ 280	120mA	1/3	8-SOP	TLP4206GF-ND	3.94	3.15	2.45	—	—	—	TLP4206G(F)
	1.15	5	25	0 ~ 280	100mA	0.5/1	8-Dip	TLP4222G-2F-ND	2.70	2.16	1.68	—	—	—	TLP4222G-2(F)
	1.15	5	25	0 ~ 280	150mA	1/3	8-Dip	TLP4227G-2F-ND	3.04	2.43	1.89	—	—	—	TLP4227G-2(F)
3	1.15	5	25	0 ~ 48	400mA	2/0.5	6-SOP	TLP192AF-ND	1.85	1.48	1.11	—	—	—	TLP192A(F)
	1.15	5	25	0 ~ 160	200mA	1.5/1	6-SOP	TLP197DF-ND	2.35	1.88	1.41	—	—	—	TLP197D(F)
	1.15	5	25	0 ~ 280	120mA	1/1	6-SOP	TLP197GFCT-ND†	2.35	1.88	1.41	TLP197GFTR-ND	2,500	1203.20/M	TLP197G(TP,F)
	1.15	5	15	0 ~ 160	50mA	0.5/0.2	6-SOP	TLP199DF-ND	2.25	1.80	1.40	—	—	—	TLP199D(F)
	1.15	5	30	0 ~ 80	1.25A	3/1	6-SOP	TLP3120F-ND	5.43	4.90	3.94	—	—	—	TLP3120(F)
	1.33	10	20	0 ~ 48	2.5A	1.5/0.4	6-Dip	TLP3542F-ND	4.16	3.33	2.59	—	—	—	TLP3542(F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	6-SOP	TLP4192GFCT-ND†	2.38	1.90	1.43	TLP4192GFTR-ND	2,500	1216.00/M	TLP4192G(TP,F)
	1.15	5	25	0 ~ 280	150mA	1/3	6-Dip	TLP4597GF-ND	2.40	1.92	1.44	—	—	—	TLP4597G(F)
	1.15	5	25	0 ~ 48	500mA	2/0.5	6-Dip	TLP592AF-ND	1.33	1.06	.80	—	—	—	TLP592A(F)
	1.15	5	25	0 ~ 280	110mA	1/1	6-Dip	TLP592GF-ND	1.58	1.26	.95	—	—	—	TLP592G(F)
	1.15	5	25	0 ~ 60	500mA	2/1	6-Dip	TLP597AF-ND	1.83	1.46	1.10	—	—	—	TLP597A(F)
	1.15	5	25	0 ~ 280	120mA	1/1	6-Dip	TLP597GF-ND	1.83	1.46	1.10	—	—	—	TLP597G(F)
	1.15	5	25	0 ~ 400	120mA	1/1	6-Dip	TLP797GAF-ND	2.86	2.29	1.78	—	—	—	TLP797GA(F)
	1.15	7.5	25	0 ~ 480	100mA	1.5/1	6-Dip	TLP797JF-ND	3.21	2.57	2.00	—	—	—	TLP797J(F)
4	1.15	5	25	0 ~ 280	120mA	1/3	6-SMD	TLP4197GFCT-ND†	2.70	2.16	1.68	TLP4197GFTR-ND	2,500	1512.00/M	TLP4197G(TP,F)

† Cut Tape

OPTEK
A subsidiary of TT electronics plc

Solid State Relays

RoHS

Input Voltage	Output Current (A) Maximum	Output Voltage Maximum	Digi-Key Part No.	Price Each			TTE/OPTEK Technology Part No.
				1	100	250	
4 ~ 32	10	250	365-1484-ND	12.27	11.78	11.33	OSSRD0001A
	15	250	365-1485-ND	12.59	12.08	11.62	OSSRD0002A
	25	250	365-1486-ND	13.22	12.69	12.20	OSSRD0003A
	40	250	365-1487-ND	15.72	15.09	14.51	OSSRD0004A

Dimensions in Inch (mm)

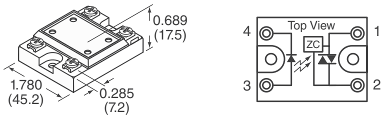

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFET Relays

Omron's G3VM relays are PCB and SMT solid state switches that are capable of controlling voltages up to 600V. Extremely low input currents, low ON-State Resistance and small packages make these relays ideal for microprocessor and logic switching. Current limiting input resistor required for operation.

Packages include 4, 6 and 8 pin Dip, SMT, or SOP packages or use the extremely small 4-SSOP package for extremely small board space requirements. Relays will switch both AC or DC voltages.

Fig. 1 — G3VM-LR Series

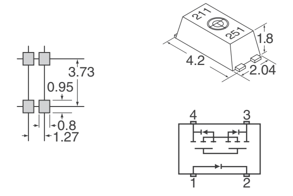

Fig. 2 — G3VM Series

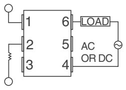

MOSFET relays boast performance with long life, low input drive, and high-speed response to handle minute analog signals with minimum current leakage. The standard G3VM MOSFET relays have dielectric strength of 2,500 VAC between I/O terminals (except SOP relays).

4-SOP

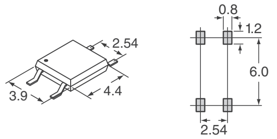

6-SOP

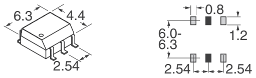

6-DIP

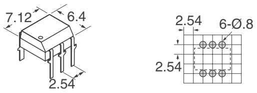

6-SMT

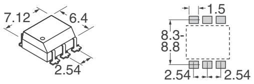

8-SOP

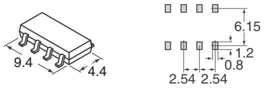

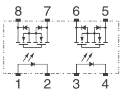

Fig.	Contact Form	Input Voltage (V)	Input Current (mA)	Output Voltage (Peak) (V)	Output Current (mA)	ON Resistance (Ω)	Package	Digi-Key Part No.		Price Each		Omron Part No.
									1	25	50	
G3VM Series — Ultra Small MOSFET Relays												
1	SPST-NO	1.15	7 ~ 30	20	160	8	4-SSOP	Z2075-ND	7.57	6.82	6.06	G3VM-21LR
	SPST-NO	1.15	7 ~ 30	20	160	8	4-SSOP	Z2075CT-ND† ***NEW!***	7.57	6.82	6.06	G3VM-21LR(TR05)
	SPST-NO	1.15	7 ~ 30	20	160	8	4-SSOP	Z2075TR-ND‡ ***NEW!***		2271.15/500		G3VM-21LR(TR05)
	SPST-NO	1.15	10 ~ 30	20	450	1.2	4-SSOP	Z1622-ND	10.47	9.43	8.38	G3VM-21LR1
	SPST-NO	1.15	10 ~ 30	20	450	1.2	4-SSOP	Z1622CT-ND† ***NEW!***	10.47	9.43	8.38	G3VM-21LR1(TR05)
	SPST-NO	1.15	10 ~ 30	20	450	1.2	4-SSOP	Z1622TR-ND‡ ***NEW!***		3142.13/500		G3VM-21LR1(TR05)
	SPST-NO	1.15	10 ~ 30	20	200	5	4-SSOP	Z2977CT-ND† ***NEW!***	10.97	9.87	8.78	G3VM-21LR10(TR05)
	SPST-NO	1.15	10 ~ 30	20	200	5	4-SSOP	Z2977TR-ND‡ ***NEW!***		3289.88/500		G3VM-21LR10(TR05)
	SPST-NO	1.15	10 ~ 30	20	900	0.22	4-SSOP	Z2950-ND ***NEW!***	12.27	11.05	9.82	G3VM-21LR11
	SPST-NO	1.15	10 ~ 30	40	300	1.5	4-SSOP	Z1625-ND	10.51	9.46	8.41	G3VM-41LR5
	SPST-NO	1.15	10 ~ 30	40	300	1.5	4-SSOP	Z1625CT-ND† ***NEW!***	10.51	9.46	8.41	G3VM-41LR5(TR05)
	SPST-NO	1.15	10 ~ 30	40	300	1.5	4-SSOP	Z1625TR-ND‡ ***NEW!***		3153.15/500		G3VM-41LR5(TR05)
	SPST-NO	1.15	10 ~ 30	40	120	15	4-SSOP	Z1626-ND	6.78	6.10	5.43	G3VM-41LR6
	SPST-NO	1.15	10 ~ 30	40	120	15	4-SSOP	Z1626CT-ND† ***NEW!***	6.78	6.10	5.43	G3VM-41LR6(TR05)
	SPST-NO	1.15	10 ~ 30	40	120	15	4-SSOP	Z1626TR-ND‡ ***NEW!***		2033.03/500		G3VM-41LR6(TR05)
	SPST-NO	1.15	10 ~ 30	40	120	12	4-SSOP	Z2701-ND	8.31	7.48	6.65	G3VM-41LR10
	SPST-NO	1.15	10 ~ 30	40	140	10	4-SSOP	Z2700-ND	8.31	7.48	6.65	G3VM-41LR11
	SPST-NO	1.15	10 ~ 30	60	400	12	4-SSOP	Z2715-ND	11.95	10.76	9.57	G3VM-61LR
	SPST-NO	1.15	10 ~ 30	80	120	12	4-SSOP	Z2702-ND	11.87	10.69	9.50	G3VM-81LR
G3VM Series — Solid State MOSFET Relays												
2	SPST-NO	1.15	5 ~ 25	350	120	35	6-SOP	Z161-ND	6.00	5.40	4.80	G3VM-S3
	SPST-NO	1.15	5 ~ 25	200	150	35	4-SOP	Z162-ND	2.89	2.61	2.32	G3VM-S5
	DPST-NO	1.15	5 ~ 25	350	120	22	8-SOP	Z163-ND	6.44	5.80	5.16	G3VM-SWS
	SPST-NO	1.15	7.5 ~ 25	60	300	1.4	6-SMT	Z157-ND	2.51	2.26	2.01	G3VM-VF
	DPST-NO	1.15	5 ~ 25	350	100	22	8-Dip	Z154-ND	4.82	4.34	3.86	G3VM-W
	DPST-NO	1.15	10 ~ 50	350	120	35	8-SMT	Z2705-ND	5.06	4.56	4.05	G3VM-WFL
	SPST-NO	1.15	10 ~ 50	350	300	35	4-SMT	Z2711-ND	2.59	2.33	2.07	G3VM-2FL
	SPST-NO	1.15	10 ~ 50	350	300	35	4-Dip	Z2710-ND	2.59	2.33	2.07	G3VM-2L
	SPST-NO	1.15	5 ~ 25	350	120	22	6-Dip	Z152-ND	2.35	2.12	1.88	G3VM-3
	SPST-NO	1.15	5 ~ 25	350	120	22	6-Dip	Z2712-ND	2.80	2.52	2.24	G3VM-3L
	SPST-NO	1.15	7.5 ~ 25	400	150	12	6-Dip	Z229-ND	9.03	8.13	7.22	G3VM-4N-S
	SPST-NO	1.15	7.5 ~ 25	400	150	12	6-SMT	Z230-ND	9.03	8.13	7.22	G3VM-4NF-S
	SPST-NO	1.15	7 ~ 30	20	160	8	4-SOP	Z2076-ND	3.47	3.13	2.78	G3VM-21GR
	SPST-NO	1.15	7 ~ 30	20	300	1.5	4-SOP	Z2077-ND	3.47	3.13	2.78	G3VM-21GR1
	SPST-NO	1.33	5 ~ 20	20	2,000	0.02	6-SOP	Z2949-ND ***NEW!***	13.15	11.84	10.52	G3VM-21HR
	DPST-NO	1.15	5 ~ 25	20	150	4	8-Dip	Z2706-ND	5.77	5.20	4.62	G3VM-22CO
	SPST-NO	1.15	10 ~ 30	40	80	25	4-SOP	Z2115-ND	3.47	3.13	2.78	G3VM-41GR3
	SPST-NO	1.15	10 ~ 30	40	250	2	4-SOP	Z2116-ND	3.47	3.13	2.78	G3VM-41GR4
	SPST-NO	1.15	10 ~ 30	40	300	1.5	4-SOP	Z2078-ND	3.47	3.13	2.78	G3VM-41GR5
	SPST-NO	1.15	10 ~ 30	40	120	15	4-SOP	Z2079-ND	3.47	3.13	2.78	G3VM-41GR6
	SPST-NO	1.33	5 ~ 20	40	1,000	0.13	4-SOP	Z2833-ND	5.88	5.30	4.71	G3VM-41GR8
	SPST-NO	1.15	5 ~ 25	60	500	2	4-Dip	Z2100-ND	2.60	2.35	2.09	G3VM-61A1
	SPST-NO	1.15	5 ~ 25	60	500	2	6-Dip	Z2102-ND	2.60	2.35	2.09	G3VM-61B1
	SPST-NO	1.15	5 ~ 25	60	500	2	4-SMT	Z2101-ND	2.60	2.35	2.09	G3VM-61D1
	SPST-NO	1.15	5 ~ 25	60	500	2	6-SMT	Z2103-ND	2.70	2.44	2.17	G3VM-61E1
	SPST-NO	1.33	10 ~ 20	60	2,500	0.10	6-SMT	Z2443-ND	8.89	8.01	7.12	G3VM-61ER
	SPST-NO	1.15	5 ~ 25	60	400	2	4-SOP	Z2106-ND	2.85	2.57	2.29	G3VM-61G1
	SPST-NO	1.15	5 ~ 25	60	400	2	4-SOP	Z3019-ND ***NEW!***	3.01	2.72	2.42	G3VM-61G2
	SPST-NO	1.15	5 ~ 20	60	1,000	0.70	4-SOP	Z2444-ND	5.26	4.73	4.21	G3VM-61GR1
	SPST-NO	1.15	5 ~ 25	60	400	2	6-SOP	Z2107-ND	2.60	2.35	2.09	G3VM-61H1
	DPST-NO	1.15	10 ~ 30	60	500	2	8-Dip	Z2708-ND	4.11	3.71	3.30	G3VM-62C1
	DPST-NO	1.15	5 ~ 25	60	500	2	8-SMT	Z2108-ND	4.11	3.71	3.30	G3VM-62F1
	DPST-NO	1.15	5 ~ 25	60	400	2	8-SOP	Z2109-ND	5.81	5.23	4.65	G3VM-62J1
	SPST-NO	1.15	5 ~ 30	80	350	1.2	4-SOP	Z2459-ND	6.04	5.44	4.84	G3VM-81G1
	SPST-NO	1.15	10 ~ 50	80	40	25	4-SOP	Z2704-ND	7.47	6.73	5.98	G3VM-81GR
	SPST-NO	1.15	10 ~ 50	80	200	8	4-SOP	Z2703-ND	7.47	6.73	5.98	G3VM-81GR1
	SPST-NO	1.15	5 ~ 25	80	1,250	0.15	6-SOP	Z2110-ND	13.15	11.84	10.52	G3VM-81HR
	SPST-NO	1.15	5 ~ 50	200	50	30	4-SOP	Z2507-ND	4.73	4.26	3.79	G3VM-201G
	SPST-NO	1.15	5 ~ 50	200	200	8	4-SOP	Z3016-ND ***NEW!***	3.53	3.18	2.83	G3VM-201G1
	SPST-NO	1.15	5 ~ 50	200	200	8	6-SOP	Z2709-ND	2.89	2.61	2.32	G3VM-201H1
	DPST-NO	1.15	5 ~ 25	200	200	8	8-SOP	Z2509-ND	4.73	4.26	3.79	G3VM-202J1
	SPST-NO	1.15	5 ~ 25	350	120	50	4-Dip	Z2080-ND	2.26	2.04	1.81	G3VM-351A
	SPST-NO	1.15	5 ~ 25	350	120	50	6-Dip	Z2081-ND	2.22	2.00	1.78	G3VM-351B
	SPST-NO	1.15	5 ~ 25	350	120	50	4-SMT	Z2082-ND	2.30	2.07	1.84	G3VM-351D
	SPST-NO	1.15	5 ~ 25	350	120	50	6-SMT	Z2083-ND	2.26	2.04	1.81	G3VM-351E
	SPST-NO	1.15	5 ~ 25	350	110	50	4-SOP	Z2084-ND	2.85	2.57	2.28	G3VM-351G
	SPST-NO	1.15	5 ~ 25	350	100	50	4-SOP	Z3017-ND ***NEW!***	3.65	3.29	2.92	G3VM-351G1
	DPST-NO	1.15	5 ~ 25	350	120	50	8-Dip	Z2086-ND	3.25	2.93	2.60	G3VM-352C
	DPST-NO	1.15	5 ~ 25	350	120	50	8-SMT	Z2087-ND	3.25	2.93	2.60	G3VM-352F
	DPST-NO	1.15	5 ~ 25	350	110	50	8-SOP	Z2088-ND	3.25	2.93	2.60	G3VM-352J
	SPST-NC	1.15	5 ~ 25	350	100	15	4-Dip	Z2445-ND	3.29	2.97	2.64	G3VM-353A1
	SPST-NO	1.15	5 ~ 25	400	150	25	6-Dip	Z1045-ND	6.18	5.57	4.95	G3VM-353B
	SPST-NC	1.15	5 ~ 25	350	100	50	6-Dip	Z2447-ND	3.55	3.20	2.85	G3VM-353B1
	SPST-NO	1.15	5 ~ 25	400	150	25	4-SMT	Z1046-ND	6.24	5.62	4.99	G3VM-353D
	SPST-NO	1.15	5 ~ 25	400	150	25	6-SMT	Z1047-ND	6.30	5.67	5.04	G3VM-353E
	SPST-NC	1.15	5 ~ 25	350	100	50	6-SMT	Z2448-ND	3.64	3.28	2.92	G3VM-353E1
	DPST-NO	1.15	5 ~ 25	200	150	25	8-Dip	Z1042-ND	12.96	11.67	10.37	G3VM-354C
	DPST-NC	1.15	5 ~ 25	350	100	25	8-Dip	Z2453-ND	6.58	5.93	5.27	G3VM-354C1
	DPST-NO	1.15	5 ~ 25	200	150	25	8-SMT	Z1043-ND	13.15	11.84	10.52	G3VM-354F
	DPST-NC	1.15	5 ~ 25	350	100	25	8-SMT	Z2454-ND	6.63	5.97	5.31	G3VM-354F1
	DPST-NC	1.15	5 ~ 25	350	90	25	8-SOP	Z2456-ND	7.68	6.92	6.15	G3VM-354J1
	SPST-NO/NC	1.15	5 ~ 25	350	120	25	8-Dip	Z2460-ND	8.54	7.69	6.84	G3VM-355CR
	SPST-NO/NC	1.15	5 ~ 25	350	120	25	8-SMT	Z2461-ND	6.62	5.96	5.30	G3VM-355FR
	SPST-NO/NC	1.15	5 ~ 25	350	120	25	8-SOP	Z2462-ND	7.72	6.95	6.18	G3VM-355JR
	SPST-NO	1.15	5 ~ 25	400	120	35	4-Dip	Z2089-ND	3.31	2.99	2.66	G3VM-401A
	SPST-NO	1.15	5 ~ 25	400	120	35	6-DiP	Z2091-ND	2.83	2.55	2.27	G3VM-401B
	SPST-NO	1.15	5 ~ 25	400	120	35	6-Dip	Z2093-ND	3.48	3.13	2.79	G3VM-401BY
	SPST-NO	1.15	5 ~ 25	400	120	35	4-SMT	Z2090-ND	2.28	2.06	1.83	G3VM-401D
	SPST-NO	1.15	5 ~ 25	400	120	35	6-SMT	Z2092-ND	2.90	2.62	2.33	G3VM-401E
	SPST-NO	1.15	5 ~ 25	400	120	35	6-SMT	Z2094-ND	3.57	3.22	2.86	G3VM-401EY
	SPST-NO	1.15	5 ~ 25	400	120	35	4-SOP	Z2095-ND	2.98	2.69	2.39	G3VM-401G
	SPST-NO	1.15	5 ~ 25	400	120	35	6-SOP	Z2096-ND	3.25	2.93	2.60	G3VM-401H
	DPST-NO	1.15	5 ~ 25	400	120	35	8-Dip	Z2097-ND	4.79	4.31	3.83	G3VM-402C
	DPST-NO	1.15	5 ~ 25	400	120	35	8-SMT	Z2098-ND	4.79	4.31	3.83	G3VM-402F
	DPST-NO	1.15	5 ~ 25	400	120	35	8-SOP	Z2099-ND	4.79	4.31	3.83	G3VM-402J
	SPST-NO	1.15	5 ~ 25	600	100	35	6-Dip	Z1040-ND	6.30	5.67	5.04	G3VM-601BY
	SPST-NO	1.15	5 ~ 25	600	100	35	6-SMT	Z1041-ND	6.46	5.81	5.17	G3VM-601EY
	SPST-NO	1.15	5 ~ 50	600	90	60	4-SOP	Z3018-ND ***NEW!***	4.59	4.14	3.68	G3VM-601G

† Cut Tape ‡ Tape and Reel

OMRON® Power Solid State Relays

G3M and G3MC relays are larger current relays but offered in a SIP package to reduce board space. Perfect for controlling pumps, alarms, solenoids and other inductive/capacitive loads. Use zero-cross for general power switching or highly inductive loads or use Phase Controlled for output control of motor speed controls or light dimming. The G3R relays are drop-in replacements to the popular G2R Electromechanical relays. Perfect for compact Din-Rail mounting and applications requiring the long life of solid state relays. G3TC series are replacement to standard I/O modules. Replaces Opto22, Gordos and many other I/O modules. Perfect for multiple output controls.

Fig. 1 — G3M Series

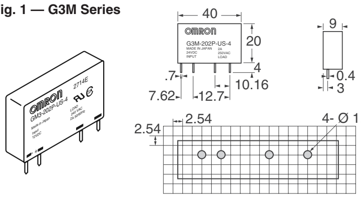

Features: • Zero-cross or Phase Control type • Thin design for high-density PCB applications • DC input: AC output for up to a 5A load • Footprint compatible with industry standard I/O modules • Low cost **Characteristic Data:** • Operate time: 1ms maximum • Output ON voltage drop: 1.6V (RMS) maximum • Leakage Current: 2mA maximum (at 100VAC); 5mA maximum (at 200VAC); For G3M-203P: 1.5mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C

Fig. 2 — G3MC Series

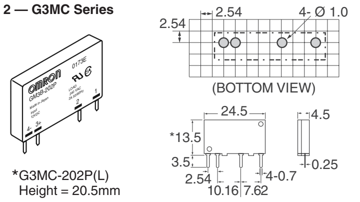

*G3MC-202P(L)
Height = 20.5mm

Features: • Low-cost, subminiature, PCB mounting, solid-state relay switching 2A • DC input: AC output for 1A load at 40°C • Mono-block lead frame facilitates heat dissipation without use of heat sink • Smaller Footprint (Approximately 20% smaller than G3MB) is ideal for close PCB Mounting applications • Built-In Snubber Circuit **Characteristic Data:** • Leakage Current: *G3MC-101P*: 1mA maximum; *G3MC-202P(L)*: 1.5mA maximum • Operating Temperature: -30°C ~ 80°C

Fig.	Contact Form	Input Voltage	Output Voltage (Peak)	Output Current	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
					NEW! G3DZ Series — RoHS Compliant NEW!					
—	SPST-NO	4 ~ 6 VDC	3 ~ 264 VAC	0.1 ~ 6A	Zero Cross	Z3022-ND	19.20	17.28	15.36	G3DZ-2R6PL DC5
					G3M Series — Standard Sip Package — RoHS Compliant					
1	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 2A	Zero Cross	Z900-ND	10.63	9.57	8.51	G3M-202P-US-4-DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 2A	Phase Controlled	Z906-ND	9.84	8.86	7.88	G3M-202PL-US-4-DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 3A	Zero Cross	Z2871-ND	15.62	14.06	12.50	G3M-203P DC5
	SPST-NO	4 ~ 6 VDC	100 ~ 240 VAC	0.1 ~ 3A	Zero Cross	Z2848-ND	15.62	14.06	12.50	G3M-203P-4 DC5
	SPST-NO	9.6 ~ 14.4 VDC	100 ~ 240 VAC	0.1 ~ 3A	Zero Cross	Z2846-ND	15.62	14.06	12.50	G3M-203P-4 DC12
	SPST-NO	19.2 ~ 28.8 VDC	100 ~ 240 VAC	0.1 ~ 3A	Zero Cross	Z2847-ND	15.62	14.06	12.50	G3M-203P-4 DC24
					G3MC Series — Micro Sip Package — RoHS Compliant					
2	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	0.1 ~ 1A	Zero Cross	Z1195-ND	4.46	4.02	3.57	G3MC-101P-DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	0.1 ~ 1A	Phase Controlled	Z1196-ND	4.15	3.74	3.32	G3MC-101PL-DC5
	SPST-NO	19.2 ~ 28.8 VDC	75 ~ 132 VAC	0.1 ~ 1A	Zero Cross	Z1237-ND	4.46	4.02	3.57	G3MC-101P-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 1A	Zero Cross	Z2520-ND	4.73	4.26	3.78	G3MC-201P-DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 1A	Phase Controlled	Z2521-ND	4.36	3.93	3.49	G3MC-201PL-DC5
	SPST-NO	9.6 ~ 14.4 VDC	75 ~ 264 VAC	0.1 ~ 1A	Zero Cross	Z2522-ND	4.73	4.26	3.78	G3MC-201P-DC12
	SPST-NO	9.6 ~ 14.4 VDC	75 ~ 264 VAC	0.1 ~ 1A	Phase Controlled	Z2523-ND	9.18	8.27	7.35	G3MC-201PL-DC12
	SPST-NO	19.2 ~ 28.8 VDC	75 ~ 264 VAC	0.1 ~ 1A	Zero Cross	Z2524-ND	4.73	4.26	3.78	G3MC-201P-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 2A	Zero Cross	Z2985-ND ***NEW!***	5.88	5.30	4.71	G3MC-202P DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 2A	Phase Controlled	Z2988-ND ***NEW!***	5.57	5.01	4.46	G3MC-202PL DC5
	SPST-NO	9.6 ~ 14.4 VDC	75 ~ 264 VAC	0.1 ~ 2A	Zero Cross	Z2986-ND ***NEW!***	5.88	5.30	4.71	G3MC-202P DC12
	SPST-NO	9.6 ~ 14.4 VDC	75 ~ 264 VAC	0.1 ~ 2A	Phase Controlled	Z2927-ND	5.57	5.01	4.46	G3MC-202PL DC12
	SPST-NO	19.2 ~ 28.8 VDC	75 ~ 264 VAC	0.1 ~ 2A	Zero Cross	Z2987-ND ***NEW!***	5.88	5.30	4.71	G3MC-202P DC24
					G3S SSR Relays — RoHS Compliant					
3	SPST-NO	9.6 ~ 14.5VDC	100 ~ 240VAC	1A	—	Z2766-ND	27.55	24.80	22.05	G3S-201PL-US DC12
	SPST-NO	19.2 ~ 28.8VDC	100 ~ 240VAC	1.2A	—	Z2768-ND	20.87	18.79	16.70	G3S-201PL-PD-US DC24
					G3R Series — QC Style Package — RoHS Compliant					
4	SPST-NO	4 ~ 6 VDC	4 ~ 32 VDC	0.1A	Phase Controlled	Z1190-ND	21.73	19.56	17.39	G3R-IDZR1SN-DC5
	SPST-NO	12 ~ 24 VDC	4 ~ 32 VDC	0.1A	Phase Controlled	Z1191-ND	21.70	19.54	17.37	G3R-IDZR1SN-DC12-24
	SPST-NO	100 ~ 240 VAC	4 ~ 32 VDC	0.1A	Phase Controlled	Z1234-ND	27.13	24.42	21.71	G3R-IAZR1SN-AC100/240
	SPST-NO	5 ~ 24 VDC	4 ~ 60 VDC	0.01 ~ 2A	Zero Cross	Z1193-ND	23.72	21.35	18.98	G3R-ODX02SN-DC5-24
	SPST-NO	5 ~ 24 VDC	40 ~ 200 VDC	0.01 ~ 1.5A	Zero Cross	Z1194-ND	27.34	24.61	21.88	G3R-OD201SN-DC5-24
	SPST-NO	5 ~ 24 VDC	75 ~ 264 VAC	0.05 ~ 2A	Zero Cross	Z1192-ND	25.11	22.61	20.09	G3R-OA202SZN-DC5-24
					G3TC Series — I/O Modules — Standard Sip Package					
5	SPST-NO	180 ~ 280 VAC/DC	4.5 ~ 6 VDC	50mA	Yellow	Z2018-ND◆	17.74	15.97	14.20	G3TC-IAC-5A AC/DC240
	SPST-NO	90 ~ 140 VAC/DC	12 ~ 18 VDC	50mA	Yellow	Z2019-ND	21.35	19.22	17.08	G3TC-IAC-15 AC/DC120
	SPST-NO	90 ~ 140 VAC/DC	20 ~ 30 VDC	50mA	Yellow	Z2020-ND◆	15.86	14.28	12.69	G3TC-IAC-24 AC/DC120
	SPST-NO	90 ~ 140 VAC/DC	4.5 ~ 6 VDC	50mA	Yellow	Z2021-ND◆	15.86	14.28	12.69	G3TC-IAC5 AC/DC120
	SPST-NO	2.5 ~ 8 VDC	75 ~ 140 VAC	3A	Black	Z2027-ND◆	16.49	14.84	13.19	G3TC-OAC5-DC5
	SPST-NO	9 ~ 16 VDC	75 ~ 140 VAC	3A	Black	Z2025-ND◆	23.44	21.10	18.76	G3TC-OAC15-DC15
	SPST-NO	18 ~ 32 VDC	75 ~ 140 VAC	3A	Black	Z2026-ND	26.90	24.21	21.52	G3TC-OAC24-DC24
	SPST-NO	2.5 ~ 8 VDC	75 ~ 280 VAC	3A	Black	Z2028-ND◆	17.74	15.97	14.20	G3TCOAC5ADC5
	SPST-NO	10-32 VDC/15-32 VAC	4.5 ~ 6 VDC	50mA	White	Z2024-ND◆	15.65	14.09	12.53	G3TC-IDC5-DC/AC24
	SPST-NO	10-32 VDC/15-32 VAC	20 ~ 30 VDC	50mA	White	Z2023-ND	15.65	14.09	12.53	G3TC-IDC24-DC/AC24
	SPST-NO	2.5 ~ 8 VDC	5 ~ 60 VDC	3A	Red	Z2031-ND◆	16.70	15.03	13.36	G3TC-ODC5-DC5
	SPST-NO	9 ~ 16 VDC	5 ~ 60 VDC	3A	Red	Z2029-ND◆	16.70	15.03	13.36	G3TC-ODC15-DC15
	SPST-NO	18 ~ 32 VDC	5 ~ 60 VDC	3A	Red	Z2030-ND◆	16.70	15.03	13.36	G3TC-ODC24-DC24
	SPST-NO	2.5 ~ 8 VDC	5 ~ 200 VDC	1A	Red	Z2032-ND◆	18.09	16.28	14.47	G3TC-ODC5A-DC5
					G3NE Series (QC Terminals) — RoHS Compliant					
6	SPST-NO	5 VDC	75 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z2590-ND	18.78	16.91	15.03	G3NE-205T-US-DC5
	SPST-NO	12 VDC	75 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z2589-ND	18.78	16.91	15.03	G3NE-205T-US-DC12
	SPST-NO	5 VDC	75 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z2591-ND	18.78	16.91	15.03	G3NE-205TL-US-DC5
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z175-ND	20.52	18.47	16.42	G3NE-210T-US-DC5
	SPST-NO	9.6 ~ 14.1 VDC	75 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z176-ND	20.52	18.47	16.42	G3NE-210T-US-DC12
	SPST-NO	19.2 ~ 28.8 VDC	75 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z177-ND	20.52	18.47	16.42	G3NE-210T-US-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	0.1 ~ 20A	Zero Cross	Z178-ND	23.30	20.98	18.65	G3NE-220T-US-DC5
	SPST-NO	9.6 ~ 14. 1VDC	75 ~ 264 VAC	0.1 ~ 20A	Zero Cross	Z179-ND	23.30	20.98	18.65	G3NE-220T-US-DC12
	SPST-NO	19.2 ~ 28.8 VDC	75 ~ 264 VAC	0.1 ~ 20A	Zero Cross	Z180-ND	23.30	20.98	18.65	G3NE-220T-US-DC24
					G3NA Series (Screw Terminals)					
7	SPST-NO	5 ~ 24 VDC	19 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z165-ND◆	22.79	20.51	18.23	G3NA-205B-DC5-24
	SPST-NO	100 ~ 120 VAC	19 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z166-ND◆	28.30	25.47	22.64	G3NA-205B-AC100-120
	SPST-NO	200 ~ 240 VAC	19 ~ 264 VAC	0.1 ~ 5A	Zero Cross	Z167-ND◆	28.30	25.47	22.64	G3NA-205B-AC200-240
	SPST-NO	4 ~ 32 VDC	19 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z918-ND◆	23.52	21.17	18.82	G3NA-210B-DC5-24
	SPST-NO	75 ~ 132 VAC	19 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z919-ND◆	29.40	26.46	23.52	G3NA-210B-AC100-120
	SPST-NO	150 ~ 264 VAC	19 ~ 264 VAC	0.1 ~ 10A	Zero Cross	Z920-ND◆	29.40	26.46	23.52	G3NA-210B-AC200-240
	SPST-NO	5 ~ 24 VDC	19 ~ 264 VAC	0.1 ~ 20A	Zero Cross	Z2253-ND◆	29.40	26.46	23.52	G3NA-220B-DC5-24
	SPST-NO	100 ~ 120 VAC	19 ~ 264 VAC	0.1 ~ 20A	Zero Cross	Z2583-ND◆	35.28	31.76	28.23	G3NA-220B-AC100-120
	SPST-NO	4 ~ 32 VDC	19 ~ 264 VAC	0.1 ~ 25A	Zero Cross	Z921-ND◆	30.87	27.79	24.70	G3NA-225B-DC5-24
	SPST-NO	75 ~ 132 VAC	19 ~ 264 VAC	0.1 ~ 25A	Zero Cross	Z922-ND◆	38.59	34.73	30.87	G3NA-225B-AC100-120
	SPST-NO	150 ~ 264 VAC	19 ~ 264 VAC	0.1 ~ 25A	Zero Cross	Z923-ND	41.34	37.21	33.08	G3NA-225B-AC200-240
	SPST-NO	5 ~ 24 VDC	19 ~ 264 VAC	0.1 ~ 40A	Zero Cross	Z172-ND◆	49.98	44.99	39.99	G3NA-240B-DC5-24
	SPST-NO	100 ~ 120 VAC	19 ~ 264 VAC	0.1 ~ 40A	Zero Cross	Z173-ND	55.86	50.28	44.69	G3NA-240B-AC100-240
	SPST-NO	200 ~ 240 VAC	19 ~ 264 VAC	0.1 ~ 40A	Zero Cross	Z174-ND	55.86	50.28	44.69	G3NA-240B-AC200-240
	SPST-NO	100 ~ 120 VAC	19 ~ 264 VAC	0.1 ~ 75A	Zero Cross	Z2068-ND	126.40	113.76	101.12	G3NA-275B-UTU-AC100-240

◆ ***RoHS Compliant***

Fig. 3 – G3S Series

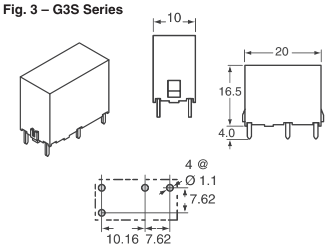

Fig. 4 — G3R Series

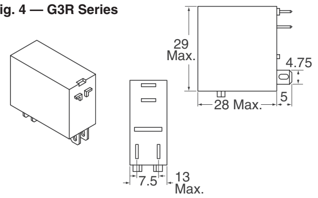

Features: • Input/Output Modules that have the same footprint as the G2R • Incorporating an easy-to-see monitoring indicator **Characteristic Data:** • Leakage Current: 5µA maximum • Operating Temperature: -30°C ~ 80°C • For socket use Z855-ND

Fig. 5 — G3TC Series

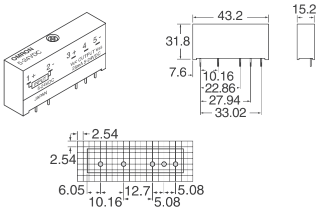

Features: • Standard sized I/O modules for replacement to OPT022, Continental and Gordos relays

Fig. 6 — G3NE Series

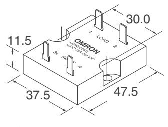

Features: • Ideal for panel mounted applications • Compact aluminum PCB and power elements used • Quick-connect #110 input terminals and #250 output connections

Fig. 7 — G3NA Series

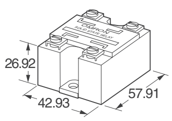

Features: Built-in varistor effectively absorbs external surges • Protective cover for greater safety is standard • Operation indicator (red LED) is standard
Characteristic Data: • Leakage Current: 5mA maximum (at 100VAC), 10mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C
UTU models are VDE approved

(Continued)

OMRON Power Solid State Relays *(Cont.)*

Fig.	Contact Form	Input Voltage	Output Voltage (Peak)	Output Current	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
7	SPST-NO	5 ~ 24 VDC	180 ~ 528 VAC	0.2 ~ 20A	Zero Cross	Z2586-ND◆	67.99	61.19	54.39	G3NA-420B-DC5-24
	SPST-NO	5 ~ 24 VDC	180 ~ 528 VAC	0.2 ~ 40A	Zero Cross	Z2588-ND◆	89.67	80.71	71.74	G3NA-440B-DC5-24
	SPST-NO	100 ~ 240 VAC	180 ~ 528 VAC	0.2 ~ 40A	Zero Cross	Z2587-ND◆	97.02	87.32	77.62	G3NA-440B-AC100-240
	SPST-NO	100 ~ 120 VAC	19 ~ 440 VAC	0.1 ~ 75A	Zero Cross	Z2072-ND	109.52	98.57	87.62	G3NA-475B-UTU-AC100-240
	SPST-NO	100 ~ 120 VAC	19 ~ 440 VAC	0.1 ~ 90A	Zero Cross	Z2074-ND	160.47	144.43	128.38	G3NA-490B-UTU-AC100-240
G3NA-D2 Series										
7	SPST-NO	5 ~ 24 VDC	4 ~ 220 VDC	0.1 ~ 10A	DC Type	Z168-ND	48.51	43.66	38.81	G3NA-D210B-DC5-24
	SPST-NO	100 ~ 120 VAC	4 ~ 220 VDC	0.1 ~ 10A	DC Type	Z169-ND	51.45	46.31	41.16	G3NA-D210B-AC100-240
G3PE Series — RoHS Compliant										
8	SPST-NO	12 ~ 24 VDC	19 ~ 264 VAC	0.1 ~ 25A	Integrated Heatsink	Z2916-ND	65.39	58.85	52.32	G3PE-225-B-DC12-24
	SPST-NO	12 ~ 24 VDC	19 ~ 264 VAC	0.1 ~ 45A		Z2917-ND	97.39	87.65	77.91	G3PE-245B-DC12-24
Accessories — RoHS Compliant										
9	Track Mount Heat Sink for up to 10A Relays (77 x 44mm)					Z924-ND	11.04	10.23	9.55	Y92B-N50
	Track Mount Heat Sink for 25A Relays (88.9 x 77mm)					Z925-ND	16.68	15.45	14.42	Y92B-N100
	Track Mount Heat Sink for 40A Relays (100 x 104mm)					Z926-ND	22.54	20.87	19.48	Y92B-N150
	Chassis Mount Heat Sink for 25A (100 x 100mm)					Z927-ND	11.72	10.86	10.13	Y92B-A100
	Chassis Mount Heat Sink for 40A (150 x 100.5mm)					Z928-ND	16.23	15.03	14.03	Y92B-A150N
—	Optional Din Rail Mount Bracket for use with G3NA Relays					Z2251-ND	22.57	20.32	18.06	R99-12 FOR G3NA

◆ ***RoHS Compliant***

Fig. 8 — G3PE DIN/Chassis Mount

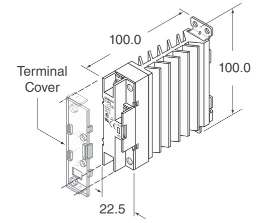

Fig. 9 — Accessories

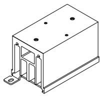

Omron heat sinks are designed to dissipate heat buildup during normal operation. Pretapped holes allow exact placement. Heat sink grease or a similar product should be used at the time of placement.

NEC / CEL California Eastern Laboratories OCMOS FET Solid State Relays

Fig.	V load V	I load mA	PD mW	Ron Ω	t_{on} ms	t_{off} ms	Output Type	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	60	1,800	560	0.2	3.0	1.0	1ch NO	Dip	PS710A-1AA-ND◆	6.28	5.65	4.65	—	—	—
	60	1,800	560	0.2	3.0	1.0	1ch NO	SMT	PS710AL-1AA-ND◆	6.66	5.95	4.88	—	—	—
	60	2,500	625	0.1	5.0	0.2	1ch NO	Dip	PS710B-1A-A-ND◆	6.55	5.90	4.85	—	—	—
	60	2,500	625	0.1	5.0	0.2	1ch NO	SMT	PS710BL-1A-ND◆	7.95	7.16	5.89	PS710BL-1ATR-ND◆	1,000	4266.00
	80	2,000	600	0.15	2.0	0.2	1ch NO	Dip	PS710E-1A-A-ND◆	7.30	6.57	5.41	—	—	—
	80	2,000	600	0.15	2.0	0.2	1ch NO	SMT	PS710EL-1A-ND◆	7.33	6.60	5.43	PS710EL-1ATR-ND◆	1,000	4293.00
	100	350	560	2.5	3.0	0.2	1ch NO	Dip	PS7113-1AA-ND◆	4.03	3.60	2.96	—	—	—
	100	350	560	2.5	3.0	0.2	1ch NO	SMT	PS7113L-1AA-ND◆	3.78	3.38	2.77	—	—	—
	250	200	560	8.0	1.5	0.2	1ch NO	Dip	PS7122A-1A-A-ND◆	4.70	4.20	3.45	—	—	—
	250	200	560	8.0	1.5	0.2	1ch NO	SMT	PS7122AL-1A-ND◆	2.83	2.53	2.08	PS7122AL-1ATR-ND◆	1,000	1436.00
	250	200	560	8.0	0.2	1.5	1ch NC	Dip	PS7122A-1B-A-ND◆	4.15	3.74	3.19	—	—	—
	250	200	560	8.0	0.2	1.5	1ch NC	SMT	PS7122AL-1B-ND◆	3.28	2.95	2.52	—	—	—
	400	120	240	50.0	1.0	0.2	1ch NO	Dip	PS7141E-1A-A-ND◆	1.74	1.57	1.26	—	—	—
	400	120	240	50.0	1.0	0.2	1ch NO	SMT	PS7141EL-1A-ND◆	2.20	1.99	1.60	PS7141EL-1ATR-ND◆	1,000	1030.00
	400	150	560	10.0	2.0	0.2	1ch NO	Dip	PS7341-1A-ND	2.23	2.01	1.71	—	—	—
	400	150	560	30.0	0.2	1.5	1ch NC	SMT	PS7341L-1B-ND◆	3.98	3.58	3.05	PS7341L-1BTR-ND◆	1,000	1430.00
	400	150	560	30.0	0.2	1.5	1ch NC	Dip	PS7341-1B-A-ND◆	3.93	3.54	3.01	—	—	—
	400	150	560	30.0	1.0	0.2	1ch NO	Dip	PS7341L-1A-A-ND◆	2.57	2.33	1.87	—	—	—
	400	150	560	30.0	1.0	0.2	1ch NO	Dip	PS7141-1AA-ND◆	2.45	2.22	1.78	—	—	—
	400	150	560	30.0	1.0	0.2	1ch NO	SMT	PS7141L-1AA-ND◆	2.51	2.27	1.83	—	—	—
	400	150	560	24.0	0.02	0.2	1ch NC	SMT	PS7141L-1BA-ND◆	2.70	2.43	2.07	—	—	—
	400	200	560	10.0	5.0	0.2	1ch NO	Dip	PS7142-1AA-ND◆	3.22	2.88	2.36	—	—	—
	400	200	560	10.0	5.0	0.2	1ch NO	SMT	PS7142L-1AA-ND◆	3.28	2.93	2.40	—	—	—
	400	200	560	12.0	0.2	5.0	1ch NC	SMT	PS7142L-1B-ND◆	5.25	4.73	4.03	—	—	—
	600	90	560	50.0	1.5	0.2	1ch NO	Dip	PS7160-1AA-ND◆	4.51	4.03	3.31	—	—	—
	600	90	560	50.0	2.0	0.2	1ch NO	Dip	PS7360-1AA-ND◆	5.43	4.85	3.98	—	—	—
	600	90	560	50.0	2.0	0.2	1ch NO	SMT	PS7360L-1AA-ND◆	5.49	4.90	4.02	—	—	—
2	100	350	375	2.5	3.0	0.2	2ch NO	Dip	PS7113-2AA-ND◆	8.90	8.01	6.59	—	—	—
	100	350	375	2.5	3.0	0.2	2ch NO	SMT	PS7113L-2AA-ND◆	5.54	4.95	4.06	—	—	—
	250	200	375	8.0	1.5	0.2	2ch NO	Dip	PS7122A-2A-A-ND◆	6.02	5.38	4.41	—	—	—
	250	200	375	8.0	1.5	0.2	2ch NO	SMT	PS7122AL-2A-ND◆	6.13	5.48	4.49	PS7122AL-2ATR-ND◆	1,000	3010.00
	400	120	180	30.0	0.2	1.0	2ch NC	SOP	—	—	—	—	PS7241-2BTR-ND◆	1,500	2665.00/M
	400	120	180	30.0	1.0	0.2	2ch NO	SOP	PS7241-2AA-ND◆	7.00	6.30	5.18	PS7241-2AATR-ND◆	1,500	3416.00/M
	400	120	180	30.0	1/0.2	0.2/1	1a + 1b	SOP	PS7241-1C-ND◆	11.03	9.93	8.46	PS7241-1CTR-ND◆	1,500	5707.00/M
	400	120	375	35.0	2.0	1.0	2ch NO	SMT	—	—	—	—	PS7141CL-2ATR-ND◆	1,000	3081.00
	400	150	375	24.0	0.02	0.2	2ch NC	Dip	PS7141-2BA-ND◆	6.33	5.70	4.85	—	—	—
	400	150	375	24.0	0.02	0.2	2ch NC	SMT	PS7141L-2BA-ND◆	5.00	4.50	3.84	—	—	—
	400	150	375	24.0	0.02	0.2	1a + 1b	SMT	PS7141L-1C-E3-ACT-ND◆†	4.55	4.10	3.49	—	—	—
	400	150	375	30.0	1.0	0.2	2ch NO	Dip	PS7141-2AA-ND◆	5.12	4.58	3.76	—	—	—
	400	200	375	12.0	2.0	0.2	2ch NO	Dip	PS7142-2A-A-ND◆	7.70	6.93	5.70	—	—	—
	400	200	375	12.0	2.0	0.2	2ch NO	SMT	PS7142L-2A-ND◆	6.08	5.43	4.45	PS7142L-2ATR-ND◆	1,000	2590.00
	600	90	375	50.0	1.5	0.2	2ch NO	SMT	PS7160L-2AA-ND◆	7.50	6.75	5.55	—	—	—
3	20	160	250	3.2	0.5	0.5	1ch NO	SSOP	PS7801J-1A-A-ND◆	8.00	7.20	5.92	—	—	—
	20	160	250	3.2	0.5	0.5	1ch NO	SSOP	PS7801J-1A-F3-ACT-ND◆†	7.95	7.20	6.00	PS7801J-1A-F3-ATR-ND◆	3,500	3900.00/M
	40	100	100	12.0	0.5	0.2	1ch NO	SOP	PS7200A-1AA-ND◆	5.43	4.85	3.98	PS7200A-1AATR-ND◆	3,500	2540.00/M
	40	100	100	12.0	0.5	0.2	1ch NO	SOP	PS7200A-1A-E3-ACT-ND◆†	4.82	4.34	3.70	—	—	—
	40	100	250	14.0	0.5	1.0	1ch NO	Mini-Flat	PS7801-1ACT-ND◆†	6.92	6.27	5.22	PS7801-1ATR-ND◆	3,500	3393.00/M
	40	120	200	12.5	0.5	1.0	1ch NO	SOP	PS7200R-1AA-ND◆	4.35	3.92	3.34	—	—	—
	40	250	100	1.5	1.0	0.2	1ch NO	SOP	PS7200B-1AA-ND◆	6.80	6.08	4.99	PS7200B-1AATR-ND◆	3,500	3059.00/M
	40	250	100	1.6	1.0	0.5	1ch NO	SOP	PS7200E-1AA-ND◆	7.70	6.93	5.70	—	—	—
	60	400	250	1.5	0.5	0.5	1ch NO	SSOP	PS7804-1A-A-ND◆	8.75	7.88	6.48	—	—	—
	60	600	300	0.8	2.0	0.5	1ch NO	SOP	PS7206-1AA-ND◆	4.40	3.93	3.22	—	—	—
	60	1,250	50	0.19	10	0.5	1ch NO	SOP	PS720C-1A-A-ND◆***NEW!***	4.51	4.03	3.31	—	—	—
	80	40	250	25.0	0.25	0.5	1ch NO	SSOP	PS7801K-1A-A-ND◆	6.86	6.13	5.03	—	—	—
	100	400	300	1.2	2.0	1.0	1ch NO	SOP	PS7214-1AA-ND◆	4.03	3.60	2.96	—	—	—
	350	120	310	36.0	3.0	0.2	1ch NO	SOP	PS7431-1ACT-ND◆†	3.78	3.40	2.90	—	—	—
	400	120	300	30.0	2.0	0.2	1ch NO	SOP	PS7241-1AA-ND◆	2.11	1.91	1.53	—	—	—
	400	120	300	30.0	2.0	0.2	1ch NO	SOP	PS7241-1A-F3-ACT-ND◆†	2.31	1.98	1.62	PS7241-1A-F3-ATR-ND◆	3,500	891.00/M
	400	120	300	35.0	1.0	0.2	1ch NO	SOP	PS7241E-1ACT-ND◆†	2.10	1.80	1.47	PS7241E-1ATR-ND◆	3,500	810.00/M

◆ ***RoHS Compliant*** † Cut Tape

Fig. 1

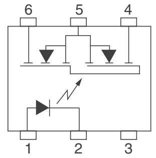

1. LED Anode
2. LED Cathode
3. NC
4. MOSFET Drain
5. MOSFET Source
6. MOSFET Drain

Fig. 2

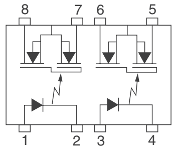

1. LED Anode
2. LED Cathode
3. LED Anode
4. LED Cathode
5. MOSFET
6. MOSFET
7. MOSFET
8. MOSFET

Fig. 3

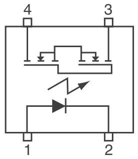

1. LED Anode
2. LED Cathode
3. MOSFET
4. MOSFET

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

crydom® PC Mount Solid State Relays

Fig. 1

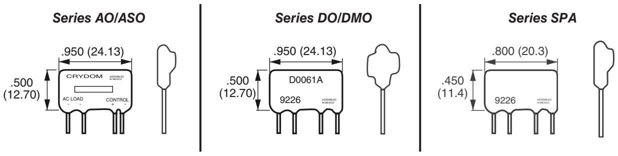
Series AO/ASO

Series DO/DMO

Series SPA

Series AO/ASO • SPST-NO miniature SIP solid state relays • Designed for switching highly inductive, low current loads such as solenoids. Also suitable for all loads up to 1.5A. R suffix are random turn-on versions.

Series DO/DMO • SPST DC bipolar transistor output relays in epoxy-coated packages utilize the popular .10” grid lead spacing. DMO063 is MOSFET output rated at 3A/60VDC.

Fig. 2

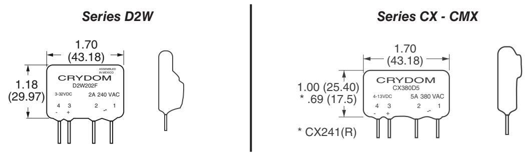
Series D2W

Series CX - CMX

Series D2W • Printed Circuit Board Mounting • Features an epoxy-coated package for exceptional environmental protection • Pinouts are compatible with OAC type I/O modules.

Series CX - CMX • Ultra High Surge • Printed Circuit Board Mounting • SPST-NO relays achieve the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and OAC type I/O modules.

Fig. 3

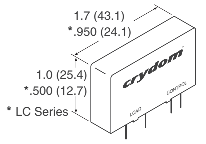

MCX and LC SIP SSR Relays

The MCX relays are 1.5A rated SPST-NO relays designed for switching highly inductive loads such as solenoids and motor loads. The LC series is a compact low cost series designed with a triac for general purpose switching applications. Both series available in zero-cross or random switching (phase controlled) versions (R suffix).

Fig. 4

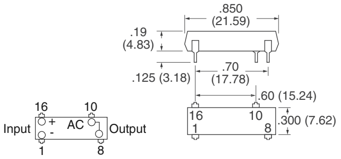

Series DPA/SDV/SDI Dip Relays — SCR Output

The series DPA is offered in your choice of voltage or current operated versions and are rated at 1A. The series SDV/SDI’s are rated at 1.5A at ambient temperatures of 40°C. Available in either zero-cross or random turn-on (R) versions and current or voltage operated (controlled) versions. SDV series are voltage controlled and SDI series are current controlled.

Fig. 5

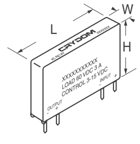

Series	L	W	H
MP	1.70 (43.18)	.40 (10.16)	1.00 (25.4)
CN	1.10 (28.0)	.20 (5.0)	.59 (15.0)

Series MP/CN

These series are SPST PC-mount relays that provide packaging density.

Fig. 6 ***NEW!***

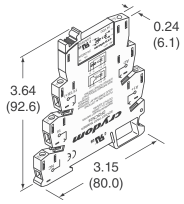

Series DRACN

This series is DIN Rail mounted with long endurance testing cycle times. They feature yellow LED status indicator and carry UL/cUL and CE approvals

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series AO — DC Input, AC Output — SCR Type									
1	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.02 ~ 1.0	CC1049-ND	10.48	9.99	9.76	AO241
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.02 ~ 1.5	CC1050-ND	10.48	9.99	9.76	ASO241
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.02 ~ 1.5	CC1116-ND	11.32	10.79	10.54	ASO241R
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.06 ~ 2.0	CC1336-ND	12.65	12.06	11.79	ASO242
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.06 ~ 2.0	CC1337-ND	13.48	12.85	12.56	ASO242R
Series DO/DMO — DC Input, DC Output — Bipolar Type									
1	SPST-NO	3 ~ 9VDC	3 ~ 60VDC	.02 ~ 1.0	CC1060-ND	9.27	8.83	8.63	DO061A
	SPST-NO	1.7 ~ 9VDC	3 ~ 60VDC	.02 ~ 1.0	CC1061-ND	9.27	8.83	8.63	DO061B
	SPST-NO	3 ~ 10VDC	0 ~ 60VDC	0 ~ 3	CC1139-ND	17.58	16.75	16.37	DMO063
Series DO — DC Input, DC Output — Normally Closed									
1	SPST-NC	3 ~ 9VDC	3 ~ 60VDC	.02 ~ 1.0	CC1587-ND	13.43	12.80	12.51	DO061A-B
	SPST-NC	1.7 ~ 9VDC	3 ~ 60VDC	.02 ~ 1.0	CC1588-ND	13.43	12.80	12.51	DO061B-B
Series D2W — DC Input, AC Output — Triac Type									
2	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	.06 ~ 2.0	CC1069-ND	10.25	9.77	9.55	D2W202F
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	.06 ~ 3.0	CC1118-ND	10.87	10.36	10.12	D2W203F
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	.06 ~ 3.5	CC1062-ND	11.48	10.94	10.69	D2W203F-11
Series CX/CMX — DC or AC Input, DC or AC Output									
2	SPST-NO	90 ~ 140VAC	12 ~ 280VAC	.06 ~ 5.0	CC1332-ND	14.22	13.55	13.24	CX240A5
	SPST-NO	90 ~ 140VAC	48 ~ 530VAC	.06 ~ 5.0	CC1596-ND	15.05	14.34	14.01	CX240A5R
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	.06 ~ 5.0	CC1063-ND	12.73	12.13	11.85	CX240D5
	SPST-NC	4 ~ 28VDC	12 ~ 280VAC	.06 ~ 5.0	CC1665-ND	16.90	16.11	15.74	CX240D5-B
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	.06 ~ 5.0	CC1119-ND	13.57	12.93	12.64	CX240D5R
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1600-ND	10.43	9.94	9.71	CX241
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1601-ND	11.27	10.74	10.50	CX241R
	SPST-NO	4 ~ 13VDC	48 ~ 530VAC	.06 ~ 5.0	CC1120-ND	16.25	15.49	15.14	CX380D5
	SPST-NO	3 ~ 15VDC	48 ~ 530VAC	.06 ~ 5.0	CC1597-ND	17.08	16.28	15.91	CX380D5R
	SPST-NO	4 ~ 13VDC	48 ~ 660VAC	.06 ~ 5.0	CC1065-ND	17.87	17.03	16.64	CX480D5
	SPST-NO	15 ~ 32VDC	48 ~ 660VAC	.06 ~ 5.0	CC1598-ND	19.53	18.61	18.18	CX480D5R
	SPST-NO	15 ~ 32VDC	12 ~ 280VAC	.06 ~ 5.0	CC1333-ND	14.22	13.55	13.24	CXE240A5
	SPST-NO	18 ~ 36VAC	12 ~ 280VAC	.06 ~ 5.0	CC1668-ND	15.88	15.13	14.78	CXE240A5R
	SPST-NO	15 ~ 32VDC	12 ~ 280VAC	.06 ~ 5.0	CC1064-ND	12.73	12.13	11.85	CXE240D5
	SPST-NO	15 ~ 32VDC	12 ~ 280VAC	.06 ~ 5.0	CC1669-ND	13.57	12.93	12.64	CXE240D5R
	SPST-NO	3 ~ 15VDC	48 ~ 530VAC	.06 ~ 5.0	CC1599-ND	16.25	15.49	15.14	CXE380D5
	SPST-NO	3 ~ 10VDC	0 ~ 100VDC	0 ~ 6.0	CC1124-ND	34.10	32.50	31.76	CMX100D6
2	SPST-NO	4 ~ 10VDC	0 ~ 200VDC	0 ~ 3.0	CC1664-ND	35.82	34.14	33.36	CMX200D3
	SPST-NO	3 ~ 10VDC	0 ~ 60VDC	0 ~ 5.0	CC1667-ND	27.65	26.35	25.75	CMX60D5
	SPST-NO	3 ~ 10VDC	0 ~ 60VDC	0 ~ 10	CC1125-ND	34.10	32.50	31.76	CMX60D10
	SPST-NO	3 ~ 10VDC	0 ~ 100VDC	0 ~ 10	CC1709-ND✔	38.92	37.09	36.24	CMX100D10
	SPST-NO	3 ~ 10VDC	0 ~ 60VDC	0 ~ 20	CC1666-ND	56.20	53.56	52.33	CMX60D20
Series MCX Relays — AC Output SIP									
3	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1551-ND	13.30	11.64	10.64	MCX241
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	.06 ~ 5.0	CC1602-ND	12.73	12.13	11.85	MCX240D5
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	.06 ~ 5.0	CC1603-ND	13.57	12.93	12.64	MCX240D5R
	SPST-NO	4 ~ 15VDC	48 ~ 530VAC	.06 ~ 5.0	CC1604-ND	16.25	15.49	15.14	MCX380D5
	SPST-NO	4 ~ 15VDC	48 ~ 530VAC	.06 ~ 5.0	CC1605-ND	17.08	16.28	15.91	MCX380D5R
Series LC — AC Output Mini-SIP — Triac Output									
3	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1586-ND	8.90	8.48	8.29	LC241
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1585-ND	9.73	9.27	9.06	LC241R
Series DPA/SDV/SDI Dip Relays — SCR Output									
4	SPST-NO	10 ~ 35mA	20 ~ 140VAC	.025 ~ 1.0	CC1153-ND	10.08	9.61	9.39	DPA4111
	SPST-NO	3.5 ~ 10VDC	20 ~ 140VAC	.025 ~ 1.0	CC1154-ND	10.08	9.61	9.39	DPA4119
	SPST-NO	10 ~ 35mA	20 ~ 280VAC	.025 ~ 1.0	CC1155-ND	10.40	9.91	9.68	DPA6111
	SPST-NO	3.5 ~ 10VDC	20 ~ 280VAC	.025 ~ 1.0	CC1156-ND	10.40	9.91	9.68	DPA6119
	SPST-NO	3.5 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1157-ND	10.73	10.23	10.00	SDV2415
	SPST-NO	3.5 ~ 10VDC	12 ~ 280VAC	.025 ~ 1.5	CC1158-ND	11.57	11.03	10.78	SDV2415R
	SPST-NO	10 ~ 35mA	12 ~ 280VAC	.025 ~ 1.5	CC1159-ND	10.73	10.23	10.00	SDI2415
Series MP Relays — DC Input, DC or AC Output									
5	SPST-NO	3 ~ 32VDC	12 ~ 140VAC	.02 ~ 3	CC1611-ND	19.53	18.61	18.18	MP120D3
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	.02 ~ 3	CC1612-ND	19.53	18.61	18.18	MP240D3
	SPST-NO	3 ~ 32VDC	3 ~ 60VDC	.02 ~ 3	CC1613-ND	21.10	20.11	19.65	MPDCD3
	SPST-NC	3 ~ 10VDC	0 ~ 60VDC	0 ~ 3	CC1589-ND	25.27	24.08	23.53	MPDCD3-B
NEW! Series CN Relays NEW!									
5	SPST-NO	3 ~ 12VDC	0 ~ 24VDC	1 ~ 3.5	CC1742-ND	16.35	15.57	15.27	CN024D05
	SPST-NO	15 ~ 30VDC	0 ~ 24VDC	1 ~ 3.5	CC1743-ND	16.35	15.57	15.27	CN024D24
	SPST-NO	3 ~ 12VDC	0 ~ 240VAC	1 ~ 2	CC1744-ND	12.28	11.70	11.47	CN240A05
	SPST-NO	15 ~ 30VDC	0 ~ 240VAC	1 ~ 2	CC1745-ND	12.28	11.70	11.47	CN240A24
NEW! Series DRACN Relays NEW!									
6	SPST-NO	3 ~ 12VDC	0 ~ 24VDC	1 ~ 3.5	CC1746-ND	37.77	35.95	35.27	DRA-CN024D05
	SPST-NO	15 ~ 30VDC	0 ~ 24VDC	1 ~ 3.5	CC1747-ND	37.27	35.48	34.80	DRA-CN024D24
	SPST-NO	3 ~ 12VDC	0 ~ 240VAC	1 ~ 2	CC1748-ND	33.70	32.08	31.47	DRA-CN240A05
	SPST-NO	15 ~ 30VDC	0 ~ 240VAC	1 ~ 2	CC1750-ND	33.20	31.60	31.00	DRA-CN240A24

✔ NEW!

crydom® Solid State Relays and Accessories

Dim. in Inch (mm)

Fig. 1

PF Series

PowerFin™ series delivers the highest ratings of any single in-line package (SIP). The integral heat sink design can operate at 25 amps in forced air, or 10 amps with natural convection. R suffix versions are phase controlled output.

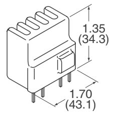

ASPF Series

ASPF SSR incorporates the PowerFin design with an integral heat sink on the compact Mini-SIP package. Rated at 3.0 AMPS up to 45°C, this SPST-NO AC output SSR is for applications where precise electrical power control is essential. Zero voltage or random switching (R suffix) versions are offered.

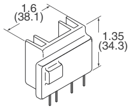

Fig. 2

Crydom's LS family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (suffix R).

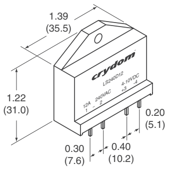

Fig. 3

Relays combine small size and high ratings in a package designed for easy heat sink or panel mounting. Standard .187 push-on terminals assure quick connection and are arranged to provide maximum isolation between signal and power circuits.

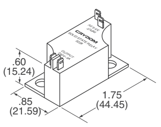

Fig. 4

Series CMD

CMD series uses standard box terminals for reliable long term connections and finger safe screws eliminates the need for a separate protective cover.

A visual LED indicator allows circuit status on the relay. CMD series works with existing Crydom SSR heat sinks.

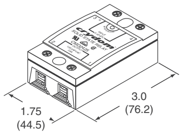

Fig. 5

Series PCV Analog Power Controller

The Series PCV Analog Input Power Controllers are 0-100% variable power controllers for 120 or 240VAC loads which vary with an analog input of 2 to 10VDC. The input and output are proportional by integrating a complete phase fired logic system and a solid state relay in the same package. Applications include heaters and lighting, motors and feeders, etc.

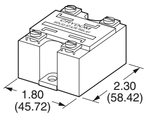

Fig. 6

Series DSD, DLD Time Delay Relay

These Delay-On time delay relays offer customers to externally adjust their delay time by selecting the value of the external customer supplied resistor. DSD are short time delays and DLD are longer time delay durations. Timing resistors should be 1/4 watt or higher.

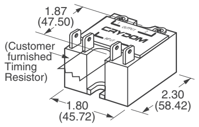

Typical Turn-On Delay For Various Timing Resistances

Resistor	Time (DSD)	Time (DLD)
0 (Short)	0.10 sec.	1.6 sec.
10KΩ	0.19 sec.	3.1 sec.
100KΩ	0.94 sec.	15 sec.
470KΩ	4.0 sec.	64 sec.
1.0MΩ	8.3 sec.	133 sec.

Fig. 7

The MCST series of controls is designed to provide adjustable surge reducing soft-start and soft-stop control for any load which would benefit from a gradual application/shut down and provide Crydom SSR switching within one package. Adjustable ramp times.

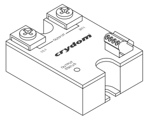

Fig. 8

RPC series proportional controllers provide a cost effective method of controlling power in many different applications such as heaters, universal motors or incandescent lamps. A customer provided potentiometer is all that is required for control.

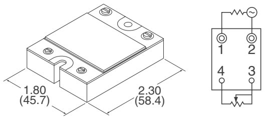

Fig. 9

Heatsinks with pre-tapped holes for SSR packages.

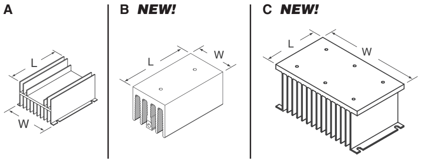
A

B ***NEW!***

C ***NEW!***

Fig.	Circuitry	Input Voltage	Output Voltage (VAC)	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series PF, ASPF, MPF – PowerFin™									
1	SPST-NO	4 ~ 10VDC	24 ~ 280	.1 ~ 3	CC1334-ND	12.73	12.13	11.85	ASPF240D3
	SPST-NO	4 ~ 10VDC	24 ~ 280	.1 ~ 3	CC1335-ND	13.57	12.93	12.64	ASPF240D3R
	SPST-NO	3 ~ 15VDC	12 ~ 280	.06 ~ 10	CC1341-ND	23.25	22.16	21.65	PF240D25
	SPST-NO	3 ~ 15VDC	12 ~ 280	0 ~ 25	CC1607-ND	24.08	22.95	22.42	PF240D25R
	SPST-NO	4 ~ 15VDC	48 ~ 530	0 ~ 25	CC1608-ND	25.93	24.71	24.14	PF380D25
	SPST-NO	4 ~ 15VDC	48 ~ 530	0 ~ 25	CC1609-ND	25.93	24.71	24.14	PF480D25
	SPST-NO	15 ~ 32VDC	12 ~ 280	0 ~ 25	CC1610-ND	26.05	24.83	24.26	PFE240A25
Series LS									
2	SPST-NO	4.0 ~ 10VDC	24 ~ 280	.15 ~ 8	CC1547-ND	17.17	16.36	15.99	LS240D8
	SPST-NO	4.0 ~ 10VDC	24 ~ 280	.15 ~ 8	CC1548-ND	18.00	17.15	16.76	LS240D8R
	SPST-NO	4.0 ~ 10VDC	24 ~ 280	.15 ~ 12	CC1549-ND	19.08	18.18	17.76	LS240D12
	SPST-NO	4.0 ~ 10VDC	24 ~ 280	.15 ~ 12	CC1550-ND	19.92	18.98	18.55	LS240D12R
Series 2 — DC Input, AC Output									
3	SPST-NO	3.5 ~ 8VDC	40 ~ 280	.02 ~ 8	CC1130-ND	49.97	47.62	46.53	S228
Series CMD — Cage Terminals									
4	SPST-NO	3 ~ 32VDC	24 ~ 280	0 ~ 25	CC1619-ND	56.52	53.86	52.62	CMD2425
	SPST-NO	3 ~ 32VDC	24 ~ 280	0 ~ 50	CC1620-ND	65.25	62.18	60.76	CMD2450
	SPST-NO	3 ~ 32VDC	24 ~ 280	0 ~ 90	CC1622-ND	111.18	105.95	103.52	CMD2490
	SPST-NO	3 ~ 32VDC	24 ~ 280	0 ~ 25	CC1623-ND	70.45	67.14	65.60	CMD4825
	SPST-NO	3 ~ 32VDC	48 ~ 530	0 ~ 75	CC1625-ND	119.22	113.62	111.01	CMD4875
Series PCV Analog Power Controller									
5	0 ~ 100%	2 ~ 10VDC	100 ~ 240	.15 ~ 15	CC1161-ND	89.58	85.37	83.41	10PCV2415
	0 ~ 100%	2 ~ 10VDC	100 ~ 240	.15 ~ 25	CC1162-ND	99.22	94.56	92.39	10PCV2425
	0 ~ 100%	2 ~ 10VDC	100 ~ 240	.15 ~ 40	CC1163-ND	117.15	111.64	109.07	10PCV2440
Series DSD, DLD Time Delay Relay									
6	SPST-NO	3.5 ~ 15VDC	48 ~ 280	.04 ~ 50	CC1176-ND	67.35	64.18	62.71	DSD2450
	SPST-NO	3.5 ~ 15VDC	48 ~ 280	.04 ~ 10	CC1177-ND	61.88	58.97	57.62	DLD2410
	SPST-NO	3.5 ~ 15VDC	48 ~ 280	.04 ~ 50	CC1179-ND	67.35	64.18	62.71	DLD2450
MCST Series – Soft-Start Controller									
7	SPST-NO	0 ~ 5VDC	48 ~ 140	.15 ~ 25	CC1579-ND	80.83	77.03	75.26	MCST1225AS
	SPST-NO	0 ~ 5VDC	48 ~ 140	.15 ~ 50	CC1580-ND	86.98	82.89	80.99	MCST1250AS
	SPST-NO	0 ~ 5VDC	48 ~ 140	.15 ~ 90	CC1581-ND	105.40	100.45	98.15	MCST1290AS
	SPST-NO	0 ~ 5VDC	180 ~ 280	.15 ~ 25	CC1582-ND	80.83	77.03	75.26	MCST2425AS
	SPST-NO	0 ~ 5VDC	180 ~ 280	.15 ~ 50	CC1583-ND	86.98	82.89	80.99	MCST2450AS
	SPST-NO	0 ~ 5VDC	180 ~ 280	.15 ~ 90	CC1584-ND	105.40	100.45	98.15	MCST2490AS

Fig.	Circuitry (%)	Resistor (Ω)	Output Voltage (VAC)	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series RPC – Potentiometer Power Control									
8	0 ~ 100	150K (1W)	90 ~ 130	15	CC1346-ND	67.32	64.16	62.69	RPC1215

Fig.	Description	Dim. L (In.)	Dim. W (In.)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Solid State Relay Accessories								
9A	Heatsink 0.7°C/W, Panel Mount	5.50	4.75	CC1702-ND✔	32.62	31.09	30.38	HS072
	Heatsink 0.7°C/W, Panel Mount	6.00	4.75	646-1074-ND†	37.89	35.99	35.09	HS5
9B	Heatsink 3.5°C/W, Panel Mount	3.19	1.77	CC1692-ND✔	8.58	8.18	7.99	HS351
	Heatsink 3.0°C/W, Panel Mount	3.19	1.77	CC1693-ND✔	16.32	15.55	15.19	HS301
	Heatsink 2.7°C/W, Panel Mount	3.19	1.77	CC1694-ND✔	10.30	9.82	9.60	HS271
	Heatsink 2.5°C/W, Panel Mount	3.36	2.06	CC1695-ND✔	12.88	12.27	11.99	HS251
	Heatsink 2.0°C/W, Panel Mount	3.19	3.54	CC1696-ND✔	24.03	22.90	22.38	HS202
	Heatsink 2.0°C/W, Panel Mount	3.19	1.77	CC1697-ND✔	23.18	22.09	21.58	HS201
	Heatsink 1.7°C/W, Panel Mount	3.36	4.12	CC1698-ND✔	16.32	15.55	15.19	HS172
	Heatsink 1.5°C/W, Panel Mount	3.19	1.77	CC1699-ND✔	24.90	23.73	23.19	HS151
	Heatsink 1.2°C/W, Panel Mount	3.19	3.54	CC1700-ND✔	30.90	29.45	28.78	HS122
9C	Heatsink for 3 Phase or Dual SSR's	3.00	5.20	CC1701-ND✔	54.93	52.35	51.15	HS103
	Heatsink for 3 Phase or 3 SSR's	6.00	6.00	CC1703-ND✔	89.27	85.07	83.12	HS053
	Heatsink for 3 Phase or 3 SSR's	5.20	3.00	646-1076-ND†	86.78	82.44	80.38	HS13
—	DIN Rail Adapter to Convert Heatsink to DIN Mount			CC1704-ND✔	7.73	7.37	7.20	DRK1
	DIN Rail Adapter to Convert Heatsink to DIN Mount			CC1705-ND✔	5.50	5.24	5.12	DRK2
	Hardware Kit for Mounting SSR to Heatsink			CC1706-ND✔	.52	.50	.49	HK1
	Hardware Kit for Mounting DIN Bracket to Heatsink			CC1707-ND✔	.87	.83	.81	HK2
	Copper Lug Terminal for Wiring to SSR			CC1708-ND✔	2.07	—	—	TRM6
	Replacement Screw Hardware Kit (8 Pieces Total)			CC1646-ND	.35	.33	.32	420440
	Protective Clear Cover for Hockey Puck Relays			CC1070-ND	3.20	3.05	2.98	KS-100
	Protective Clear Cover for 3 Phase Relays			CC1171-ND	5.22	4.97	4.86	KS-300
	EMI Filters for 1 Phase Relay to Reduce Gen. Noise			CC1172-ND	17.52	16.70	16.32	1F25
	EMI Filters for 3 Phase Relay to Reduce Gen. Noise			CC1173-ND	24.97	23.80	23.26	3F20
	Thermal Pad Triple Phase			CC1643-ND	5.63	5.37	5.25	TP03
	Thermal Pad Single Phase			CC1644-ND	.92	.88	.86	TP01

✔ ***NEW!*** † Crouzet Brand

crydom® Solid State Relays and Industrial Controllers

Fig. 1

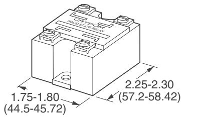

Series 1, HD, HA: • These SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch, available in either zero voltage turn-on or random turn-on, phase controlled models. (-10 versions are phase controlled. Crydom part numbers ending in "B" are normally closed versions.)
Series H12: • High voltage relays use IC driven circuits for switching loads up to 660VAC with 1200 Volts blocking standard.

Series 1-DC: • Low On-State Resistance • Paralleling Capability for Higher Currents • DC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities to 100 amps at 200VDC.
Series CS: • Low Leakage • SCR AC switch output models feature low off-state leakage (snubberless), zero-voltage switching and a broadened operating range at both 120V/240VAC line voltages.

Series CL: • Crydom's new CL series of AC output Solid State Relays is intended for general purpose use in heating, lighting and motion control applications where panel mounting is desirable but traditional heavy duty SSRs are not required. Featuring 4kV all solid state optical isolation with Triac output and an RC snubber network is also included for applications with highly inductive loads or noisy power lines.

Fig. 2

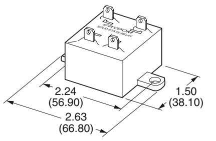

Series EZ: • Low Leakage • Quick Connect Terminals • Offers a low profile package with the convenience of quick connect terminals • 4000 Vrms opto-isolation and low off-state leakage are standard.

Fig. 3 Dual Relay

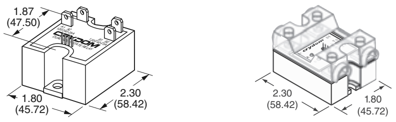

Legacy Dual

Evolution Dual

Two (Dual) totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering. (-10 versions are phase controlled)

Fig. 4 — Three-Phase

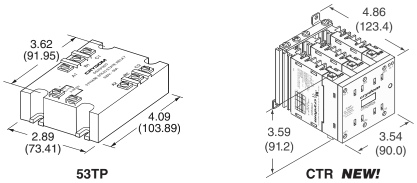

53TP

CTR *NEW!*

Three-phase solid state relays switch up to 530 Vrms directly to loads such as motors, transformers, heating elements, etc. Models are available with either AC or DC input (coil).

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 1 — DC Input, AC Output — SCR Type									
1	SPST-NO	3~32VDC	24~140VAC	.04~2.5	CC1000-ND◆	23.73	22.61	22.09	D1202
	SPST-NO	3~32VDC	24~140VAC	.04~10	CC1001-ND◆	35.08	33.43	32.66	D1210
	SPST-NO	3~32VDC	24~140VAC	.04~25	CC1002-ND◆	35.60	33.93	33.15	D1225
	SPST-NO	3~32VDC	24~140VAC	.04~40	CC1003-ND◆	38.77	36.95	36.10	D1240
	SPST-NO	3~32VDC	24~280VAC	.04~2.5	CC1004-ND◆	23.88	22.76	22.24	D2402
	SPST-NO	3~32VDC	24~280VAC	.04~10	CC1005-ND◆	35.93	34.24	33.45	D2410
	SPST-NO	3~32VDC	24~280VAC	.04~25	CC1006-ND◆	36.30	34.59	33.80	D2425
	SPST-NO	3~32VDC	24~280VAC	.04~40	CC1071-ND◆	41.08	39.15	38.25	D2440
	SPST-NO	3~32VDC	24~280VAC	.04~50	CC1007-ND◆	42.40	40.41	39.48	D2450
	SPST-NO	3~32VDC	24~280VAC	.04~75	CC1008-ND◆	67.75	64.57	63.09	D2475
	SPST-NO	3~32VDC	24~280VAC	.04~90	CC1067-ND◆	74.57	71.07	69.44	D2490
	SPST-NO	3~32VDC	24~280VAC	.04~110	CC1142-ND◆	73.05	69.62	68.03	D24110
	SPST-NO	3~32VDC	80~530VAC	.04~25	CC1072-ND◆	46.30	44.12	43.11	D4825
	SPST-NO	3~32VDC	48~530VAC	.04~40	CC1073-ND◆	51.42	49.00	47.88	D4840
	SPST-NO	3~32VDC	48~530VAC	.04~50	CC1074-ND◆	51.42	49.00	47.88	D4850
	SPST-NO	3~32VDC	48~530VAC	.04~90	CC1076-ND◆	85.13	81.13	79.27	D4890
	SPST-NC	3~32VDC	48~280VAC	.04~10	CC1088-ND◆	44.27	42.19	41.22	D2410B
	SPST-NC	3~32VDC	48~280VAC	.04~25	CC1089-ND◆	44.63	42.53	41.55	D2425B
	SPST-NC	3~32VDC	48~280VAC	.04~40	CC1090-ND◆	49.42	47.10	46.02	D2440B
	SPST-NO	3~32VDC	24~140VAC	.04~10	CC1077-ND◆	35.92	34.23	33.45	D1210-10
	SPST-NO	3~32VDC	24~140VAC	.04~40	CC1078-ND◆	39.60	37.74	36.87	D1240-10
	SPST-NO	3~32VDC	24~280VAC	.04~10	CC1079-ND◆	36.77	35.04	34.24	D2410-10
	SPST-NO	3~32VDC	24~280VAC	.04~25	CC1080-ND◆	37.13	35.38	34.57	D2425-10
	SPST-NO	3~32VDC	24~280VAC	.04~40	CC1081-ND	41.92	39.95	39.03	D2440-10
	SPST-NO	3~32VDC	24~280VAC	.04~50	CC1082-ND◆	43.23	41.20	40.25	D2450-10
	SPST-NO	3~32VDC	24~280VAC	.04~90	CC1083-ND◆	75.42	71.88	70.23	D2490-10
	SPST-NO	3~32VDC	80~530VAC	.04~40	CC1085-ND◆	53.08	50.59	49.43	D4840-10
Series 1 — AC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	90~280VAC	24~140VAC	.04~25	CC1011-ND	36.90	35.17	34.36	A1225
	SPST-NO	90~280VAC	24~280VAC	.04~10	CC1013-ND	38.02	36.23	35.40	A2410
	SPST-NO	90~280VAC	24~280VAC	.04~25	CC1014-ND	38.77	36.95	36.10	A2425
	SPST-NO	90~280VAC	24~280VAC	.04~50	CC1015-ND	43.88	41.82	40.86	A2450
	SPST-NO	18~36VAC	24~280VAC	.04~50	CC1068-ND	44.72	42.62	41.64	A2450-E
	SPST-NO	90~280VAC	24~280VAC	.04~75	CC1016-ND	70.67	67.35	65.80	A2475
	SPST-NO	90~280VAC	24~280VAC	.04~110	CC1144-ND	85.37	81.36	79.49	A24110
	SPST-NO	90~280VAC	24~280VAC	.04~125	CC1145-ND	89.07	84.88	82.93	A24125
	SPST-NO	90~280VAC	24~530VAC	.04~50	CC1094-ND	56.13	53.49	52.26	A4850
Series HD — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	3~32VDC	48~530VAC	.04~12	CC1017-ND	44.83	42.72	41.74	HD4812
	SPST-NO	3~32VDC	48~530VAC	.04~50	CC1019-ND	52.68	50.20	49.05	HD4850
	SPST-NO	3~32VDC	48~530VAC	.04~50	CC1096-ND	54.35	51.80	50.61	HD4850-10
	SPST-NO	3~32VDC	48~530VAC	.04~75	CC1020-ND	84.17	80.21	78.37	HD4875
	SPST-NO	3~32VDC	48~530VAC	.04~90	CC1021-ND	85.43	81.41	79.54	HD4890
	SPST-NO	3~32VDC	48~530VAC	.04~125	CC1147-ND	98.18	93.57	91.42	HD48125
	SPST-NO	3~32VDC	48~660VAC	.04~50	CC1098-ND	54.00	51.46	50.28	HD6050
	SPST-NO	3~32VDC	48~660VAC	.04~90	CC1099-ND	87.47	83.36	81.45	HD6090
	SPST-NO	3~32VDC	48~660VAC	.04~125	CC1100-ND	99.62	94.94	92.76	HD60125
Series HA — AC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	90~280VAC	48~530VAC	.04~50	CC1023-ND	57.57	54.86	53.60	HA4850
	SPST-NO	90~280VAC	48~530VAC	.04~75	CC1024-ND	85.68	81.65	79.77	HA4875
	SPST-NO	90~280VAC	48~530VAC	.04~110	CC1148-ND	97.32	92.75	90.62	HA48110
	SPST-NO	90~280VAC	48~660VAC	.04~25	CC1101-ND	52.87	50.39	49.23	HA6025
Series H12 — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	4~32VDC	48~660VAC	.04~50	CC1032-ND	50.27	47.91	46.81	H12WD4850
Series T — AC Input, AC Output — Triac Type — RoHS Compliant									
1	SPST-NO	90~280VAC	24~140VAC	.05~10	CC1107-ND	49.32	47.00	45.92	TA1210
	SPST-NO	90~280VAC	24~140VAC	.05~25	CC1030-ND	50.23	47.87	46.77	TA1225
	SPST-NO	90~280VAC	48~280VAC	.05~10	CC1108-ND	51.75	49.32	48.19	TA2410
Series DC60 — DC or AC Input, DC Output — Bipolar Type — RoHS Compliant									
1	SPST-NO	3~32VDC	3~60VDC	.02~3	CC1126-ND	16.25	15.49	15.14	DC60S3
	SPST-NO	3~32VDC	3~60VDC	.02~5	CC1127-ND	25.50	24.30	23.74	DC60S5
	SPST-NO	3~32VDC	3~60VDC	.02~7	CC1128-ND	31.85	30.35	29.65	DC60S7
	SPST-NO	90~280VAC	3~60VDC	.02~3	CC1150-ND	18.78	17.90	17.49	DC60SA3
	SPST-NO	90~280VAC	3~60VDC	.02~5	CC1151-ND	28.03	26.71	26.10	DC60SA5

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series DC60 — DC or AC Input, DC Output — Normally Closed Type — RoHS Compliant									
1	SPST-NC	3.5~32VDC	3~60VDC	.02~3	CC1590-ND	28.90	27.54	26.91	DC60S3-B
	SPST-NC	3.5~32VDC	3~60VDC	.02~5	CC1591-ND	35.23	33.57	32.80	DC60S5-B
	SPST-NC	3.5~32VDC	3~60VDC	.02~7	CC1592-ND	42.43	40.44	39.51	DC60S7-B
	SPST-NC	90~280VAC	3~60VDC	.02~3	CC1593-ND	31.75	30.26	29.57	DC60SA3-B
	SPST-NC	90~280VAC	3~60VDC	.02~5	CC1594-ND	42.27	40.28	39.36	DC60SA5-B
	SPST-NC	90~280VAC	3~60VDC	.02~7	CC1595-ND	49.50	47.17	46.09	DC60SA7-B
Series 1 DC — DC Input, DC Output — MOSFET Type — RoHS Compliant									
1	SPST-NO	3.5~32VDC	0~100VDC	0~7	CC1036-ND	49.17	46.86	45.78	D1D07
	SPST-NO	3.5~32VDC	0~100VDC	0~12	CC1037-ND	54.33	51.78	50.59	D1D12
	SPST-NO	3.5~32VDC	0~100VDC	0~20	CC1038-ND	59.55	56.75	55.45	D1D20
	SPST-NO	3.5~32VDC	0~100VDC	0~40	CC1039-ND	73.97	70.49	68.88	D1D40
	SPST-NO	3.5~32VDC	0~100VDC	0~60	CC1683-ND	99.48	94.80	92.62	D1D60
	SPST-NO	3.5~32VDC	0~100VDC	0~80	CC1684-ND	112.92	107.61	105.14	D1D80
	SPST-NO	3.5~32VDC	0~100VDC	0~100	CC1685-ND	126.25	120.32	117.56	D1D100
	SPST-NO	3.5~32VDC	0~200VDC	0~7	CC1040-ND	56.78	54.11	52.87	D2D07
	SPST-NO	3.5~32VDC	0~200VDC	0~12	CC1041-ND	65.43	62.35	60.92	D2D12
	SPST-NO	3.5~32VDC	0~200VDC	0~40	CC1686-ND	93.37	88.98	86.94	D2D40
	SPST-NO	3.5~32VDC	0~400VDC	0~7	CC1042-ND	66.72	63.58	62.12	D4D07
	SPST-NO	3.5~32VDC	0~400VDC	0~12	CC1109-ND	89.88	85.66	83.69	D4D12
	SPST-NO	3.5~32VDC	0~60VDC	.005~60	CC1521-ND	82.90	79.00	77.19	D06D60
	SPST-NO	3.5~32VDC	0~60VDC	.005~80	CC1522-ND	101.25	96.49	94.27	D06D80
	SPST-NO	3.5~32VDC	0~60VDC	.005~100	CC1520-ND	117.75	112.22	109.65	D06D100
Series CS — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	3.5~15VDC	24~280VAC	.1~25	CC1044-ND	49.37	47.05	45.97	CSD2425
	SPST-NO	3.5~15VDC	24~280VAC	.1~50	CC1045-ND	58.00	55.27	54.00	CSD2450
	SPST-NO	15~32VDC	24~280VAC	.1~10	CC1110-ND	40.28	38.39	37.51	CSE2410
NEW! Series CL — RoHS Compliant NEW!									
1	SPST-NO	3~32VDC	24~280VAC	5	CC1762-ND	27.50	26.21	25.61	CL240D05
	SPST-NO	3~32VDC	24~280VAC	5	CC1763-ND	29.58	28.19	27.54	CL240D05C
	SPST-NO	3~32VDC	24~280VAC	10	CC1758-ND	29.17	27.80	27.16	CL240D10
	SPST-NO	3~32VDC	24~280VAC	10	CC1759-ND	31.25	29.78	29.10	CL240D10C
	SPST-NO	90~250VAC	24~280VAC	5	CC1760-ND	34.17	32.56	31.81	CL240A05
	SPST-NO	90~250VAC	24~280VAC	5	CC1761-ND	36.25	34.55	33.76	CL240A05C
	SPST-NO	90~250VAC	24~280VAC	10	CC1756-ND	35.83	34.15	33.37	CL240A10
	SPST-NO	90~250VAC	24~280VAC	10	CC1757-ND	37.92	36.14	35.31	CL240A10C
Series EZ — DC Input, AC Output — SCR Type — RoHS Compliant									
2	SPST-NO	4~15VDC	24~280VAC	.06~12	CC1047-ND	19.23	18.33	17.91	EZ240D12
	SPST-NO	4~15VDC	24~280VAC	.06~18	CC1048-ND	24.72	23.56	23.02	EZ240D18
Dual — DC Input, AC Output — SCR Type — RoHS Compliant									
3	SPST-NO	4~15VDC	24~280VAC	.05~25	CC1121-ND	65.32	62.25	60.82	D2425D
	SPST-NO	4~15VDC	24~280VAC	.05~40	CC1122-ND	73.95	70.47	68.85	D2440D
	SPST-NO	4~15VDC	24~280VAC	.05~25	CC1614-ND	66.98	63.83	62.36	D2425D-10
	SPST-NO	4~15VDC	24~280VAC	.05~40	CC1615-ND	75.62	72.07	70.41	D2440D-10
	SPST-NO	4~15VDC	48~530VAC	.04~25	CC1616-ND	83.30	79.38	77.56	H12D4825D
Evolution Dual Series — SSR Type — RoHS Compliant									
3	SPST-NO	4~32VDC	24~280VAC	.15~25	CC1687-ND†	73.38	69.93	68.32	CC2425W1V
	SPST-NO	4~32VDC	24~280VAC	.15~25	CC1688-ND‡	75.53	71.98	70.33	CC2425W2V
	SPST-NO	4~32VDC	24~280VAC	.15~25	CC1689-ND§	75.53	71.98	70.33	CC2425W3V
	SPST-NO	4~32VDC	24~280VAC	.15~50	CC1690-ND‡	87.55	83.44	81.53	CC2450W2V
	SPST-NO	4~32VDC	24~280VAC	.15~50	CC1691-ND§	87.55	83.44	81.53	CC2450W3V
Series 53TP — DC or AC Input — SCR Type (for 3 Phase applications) — RoHS Compliant									
4	3 PHASE	3~32VDC	48~530VAC	.05~25	CC1135-ND	141.27	134.63	131.54	D53TP25D
	3 PHASE	3~32VDC	48~530VAC	.05~50	CC1136-ND	154.58	147.31	143.92	D53TP50D
	3 PHASE	4~32VDC	48~530VAC	.1~50	CC1725-ND✔	260.83	248.58	242.86	D53RV50C
	3 PHASE	4~32VDC	48~530VAC	.1~50	CC1726-ND✔	172.48	164.37	160.59	D53TP50CH
	3 PHASE	18~36VAC	48~530VAC	.1~50	CC1727-ND✔	173.40	165.25	161.46	E53TP50C
	3 PHASE	90~140VAC	48~530VAC	.1~25	CC1723-ND✔	160.40	152.86	149.35	B53TP25C
	3 PHASE	90~140VAC	48~530VAC	.1~50	CC1724-ND✔	178.40	170.02	166.11	B53TP50CH
	3 PHASE	90~280VAC	48~530VAC	.05~25	CC1137-ND	147.33	140.41	137.18	A53TP25D
	3 PHASE	90~280VAC	48~530VAC	.05~50	CC1138-ND	160.65	153.10	149.58	A53TP50D
NEW! Series CTR — RoHS Compliant NEW!									
4	3 PHASE	90~140VAC	48~600VAC	.1~25	CC1752-ND	170.00	162.01	158.29	CTRB6025
	3 PHASE	180~280VAC	48~600VAC	.1~25	CC1753-ND	170.00	162.01	158.29	CTRC6025
	3 PHASE	4~32VDC	48~600VAC	.1~25	CC1754-ND	168.33	160.42	156.73	CTRD6025
	3 PHASE	4~32VDC	48~600VAC	.1~25	CC1755-ND	173.33	165.18	161.38	CTRD6025-10

◆ ***RoHS Compliant*** † Four Pin Standard ‡ Key Locking Connector § Four Pin Screw Terminal ✔ ***NEW!***

crydom®

SCR/Diode Power Modules

These circuits provide complete power control in a single package, utilizing high thermal efficiency to assure long life and reliable performance.

Applications: Full-wave power rectification for high current DC circuits, heavy duty power controls, electric vehicles, Industrial Motor applications and many other high current applications. **Electrical Specifications:** • VF Maximum Voltage Drop at Amps Peak: B5, L5: 1.65V @ 25A; B6, L6: 1.6V @ 42.5A; F18 and M25: 1.4V @ 270A; M5050: 1.7V @ 50A; M5060: 1.35V @ 60A; M50100: 1.2V @ 100A • Operating Temperature Range: -40°C ~ 125°C

UL recognized (file no. E72445) and manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

Fig. 1 — B-2, B-2T Series

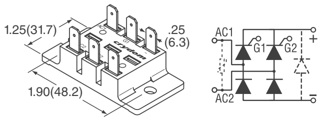

Fig. 2 — M25, M50 Series

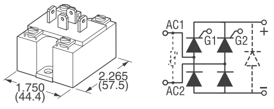

M5012F Shown

Fig. 3

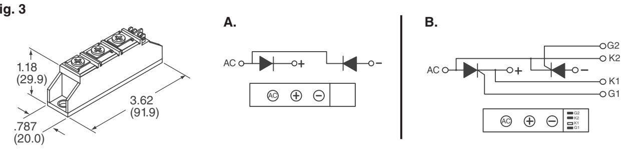

Fig.	Type	Maximum Current (A)	AC Line Voltage	Options	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
1	SCR/Diode	25	240	w/ Diode	CC1650-ND	30.33	28.90	28.24	B512F-2
	SCR/Diode	25	240	w/ Diode	CC1647-ND	30.33	28.90	28.24	B512F-2T
	SCR/Diode	42.5	240	w/ Diode	CC1648-ND	41.95	39.98	39.06	B612F-2T
2	Diode Only	100	480	—	CC1660-ND	86.10	82.05	80.17	M50100TB1200
	SCR/Diode	25	600	—	CC1673-ND	40.13	38.24	37.36	M252532
	SCR/Diode	50	240	w/ Diode	CC1654-ND	62.57	59.63	58.26	M505012F
	SCR Only	50	240	—	CC1662-ND	77.13	73.50	71.81	M505032
	Diode Bridge	25	240	w/ Diode	CC1661-ND	33.00	31.45	30.73	M252512F
	Diode Bridge	60	120	—	CC1656-ND	37.50	35.74	34.92	M5060SB400
	Diode Bridge	60	240	—	CC1657-ND	37.50	35.74	34.92	M5060SB600

Fig.	Type	Maximum Current (A)	AC Line Voltage	Options	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
2	Diode Bridge	60	480	—	CC1658-ND	44.10	42.03	41.07	M5060SB1200
	Diode Bridge	100	240	—	CC1652-ND	60.50	57.66	56.34	M50100SB600
	Diode Bridge	100	480	—	CC1653-ND	71.17	67.83	66.27	M50100SB1200
	3 Phase Diode Bridge	60	240	—	CC1659-ND	48.52	46.24	45.18	M5060TB600
		100	240	—	CC1676-ND	73.17	69.73	68.13	M50100TB600
		100	380	—	CC1675-ND	79.20	75.48	73.75	M50100TB1000
3A	SCR/Diode	90	240	w/ Diode	CC1670-ND	32.03	30.52	29.82	F1892RD600
3B	SCR/Diode	90	480	w/ Diode	CC1671-ND	48.88	46.58	45.51	F1892SD1200
—	SCR/Diode	25	240	w/ Diode	CC1649-ND	25.83	24.62	24.06	L512F
	SCR/Diode	42.5	240	w/ Diode	CC1651-ND	40.48	38.58	37.70	L622F
	SCR/Diode	42.5	280	w/ Diode	CC1672-ND	30.28	28.86	28.20	L513F

RHP Hybrid Contactor Series

Crydom has combined solid state and mechanical switching technologies to create its line of Hybrid Solid State Contactors. The RHP contactors provide the performance advantages of both technologies in an industry standard DP contactor package. Crydom's proven Hybrid SSR technology utilizes contactless solid state turn on and turn off performance, coupled with the very low on state power dissipation characteristic of contactors. Available in single and 3 phase versions. They are the perfect "mercury-free alternative" to replace MDRs.

Fig.	Type	Operating Voltage Range (VAC 50/60Hz)	Load Current (A)	Control Voltage	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
1	Single Phase AC Input	90 ~ 250	20	90 ~ 250VAC 50/60Hz	CC1678-ND	49.33	47.01	45.93	1RHP2520A
	Single Phase DC Input	90 ~ 250	20	4 ~ 32VDC	CC1677-ND	46.22	44.05	43.04	1RHP2520D32
2	3 Phase AC Input	48 ~ 600	40	100 ~ 130VAC 60Hz	CC1679-ND	134.17	127.86	124.92	3RHP6040F
	3 Phase AC Input	48 ~ 600	40	208 ~ 240VAC 60Hz	CC1680-ND	134.62	128.29	125.34	3RHP6040G
	3 Phase DC Input	208 ~ 240	40	4.5 ~ 5.5VDC	CC1681-ND	136.83	130.40	127.41	3RHP2440D5
	3 Phase DC Input	208 ~ 240	40	22 ~ 27VDC	CC1682-ND	137.73	131.26	128.24	3RHP2440D24

Fig. 1

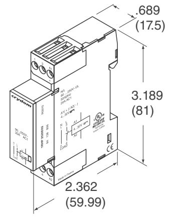

Fig. 2

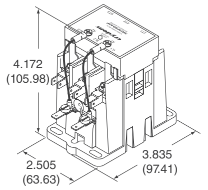

NEW! UPD Series

Features: • Single channel ratings of 15A and 25A @ 280VAC • PCB mount package or panel mount quick connect terminals (F option) • SCR output for heavy industrial loads • Zero-crossing (resistive loads) or random-fire (inductive loads) output

Type	Operating Voltage Range (VAC 47/63Hz)	Load Current (A)	Control Voltage (VDC)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Single Output PCB Mount - Zero Cross	24 ~ 280	15	3 ~ 32	CC1710-ND	31.52	30.04	29.35	UPD2415
Single Output PCB Mount - Phase Control	24 ~ 280	15	3 ~ 32	CC1711-ND	32.35	30.83	30.12	UPD2415-10
Dual Output Chassis Mount - Zero Cross	24 ~ 280	15	3 ~ 15	CC1712-ND	51.28	48.87	47.75	UPD2415DF
Single Output Chassis Mount - Zero Cross	24 ~ 280	15	3 ~ 32	CC1713-ND	32.35	30.83	30.12	UPD2415F
Triple Output PCB Mount - Zero Cross	24 ~ 280	15	4.5 ~ 8	CC1714-ND	66.70	63.57	62.11	UPD2415TP
Triple Output Chassis Mount - Zero Cross	24 ~ 280	15	4.5 ~ 8	CC1715-ND	67.53	64.36	62.88	UPD2415TPF
Triple Output Chassis Mount - Phase Control	24 ~ 280	15	4.5 ~ 8	CC1716-ND	70.03	66.74	65.21	UPD2415TPF-10
Single Output PCB Mount - Zero Cross	24 ~ 280	25	3 ~ 32	CC1718-ND	39.00	37.17	36.32	UPD2425
Single Output Chassis Mount - Zero Cross	24 ~ 280	25	3 ~ 32	CC1719-ND	39.83	37.96	37.09	UPD2425F

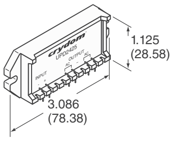

PCB Type Shown

I/O Modules

Standard

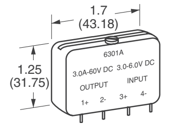

Mini

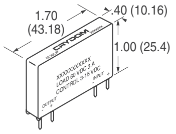

Series IAC, IDC, OAC, ODC

• Opto-Isolated • Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. DMP versions are epoxy conformal coated for fast heat transfer.

Series 6

Series 6 buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the Mos devices used in many microprocessor systems. Models are available with either inverting or no-inverting inputs, for 5 and 15 volt logic.

Input Voltage	Input I (mA)	Output Current	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
I/O Modules — 5VDC System Voltage										
90~140VAC	7	.1~100mA	.4~30VDC	20ms	20ms	CC1200-ND	13.77	13.12	12.82	IAC-5
180~280VAC	5	.1~100mA	.4~30VDC	20ms	20ms	CC1201-ND	14.10	13.44	13.13	IAC-5A
10~36VDC	8	.1~100mA	.4~30VDC	5ms	5ms	CC1202-ND	13.77	13.12	12.82	IDC-5
3~6VDC	19	.02~3A	12~140VAC	.5 cycle	.5 cycle	CC1203-ND	13.77	13.12	12.82	OAC-5
3~6VDC	19	.02~3A	24~280VAC	.5 cycle	.5 cycle	CC1204-ND	14.25	13.58	13.27	OAC-5A
3~6VDC	14	.02~3A	5~60VDC	.3ms	.3ms	CC1205-ND	13.77	13.12	12.82	ODC-5
3~6VDC	3	.02~3A	3~60VDC	.5ms	.5ms	CC1237-ND	17.65	16.80	16.48	DMP6301A
3~6VDC	4	.02~3A	24~280VAC	.5 cycle	.5 cycle	CC1238-ND	17.50	16.68	16.30	DMP6402A
I/O Modules — 15VDC System Voltage										
90~140VAC	7	.1~100mA	.4~30VDC	20ms	20ms	CC1210-ND	16.22	15.46	15.11	IAC-15
9~18VDC	14	.02~3A	3~60VDC	.3ms	.3ms	CC1213-ND	18.95	18.06	17.65	ODC-15
I/O Modules — 24VDC System Voltage										
90~140VAC	7	.1~100mA	4~30VDC	20ms	20ms	CC1214-ND	16.22	15.46	15.11	IAC-24
3.3~32VDC	8	.1~100mA	.4~30VDC	5ms	5ms	CC1215-ND	16.22	15.46	15.11	IDC-24
18~28VDC	10	.02~3A	12~140VAC	.5 cycle	.5 cycle	CC1216-ND	16.68	15.90	15.54	OAC-24
18~28VDC	10	.02~3A	3~60VDC	.3ms	.3ms	CC1217-ND	18.95	18.06	17.65	ODC-24
Series 6 — AC and DC										
2.4~6VDC	250µA	.02~3.5A	3~60VDC	100µS	100µS	CC1240-ND	24.68	23.52	22.98	6321

Input Voltage	Input I (mA)	Output Current	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 6 — AC and DC Buffered Modules										
0~.8VDC	100µA	.02~3.5A	24~280VAC	.5 cycle	.5 cycle	CC1242-ND	24.80	23.63	23.09	6412
2.4~6VDC	250µA	.02~3.5A	12~140VAC	.5 cycle	.5 cycle	CC1243-ND	22.05	21.01	20.53	6421
Mounting Board for 4-pos. Std. I/O (Neg. Logic) Modules Screw Term.						CC1206-ND	47.17	44.95	43.92	PB-4
Mnt. Brd. for 4-pos. Std. I/O Modules (Neg. or Pos. Logic) Screw Term.						CC1218-ND	47.17	44.95	43.92	PB-4R
Mounting Board for 8-pos. Std. I/O Modules (Card Edge Conn.)						CC1219-ND	75.52	71.97	70.32	PB-8
Mounting Board for 16-pos. Std. I/O Modules (Screw Term.)						CC1220-ND	143.03	136.31	133.18	PB-16T
Mounting Board for 16-pos. Std. I/O Modules (Card Edge Conn.)						CC1221-ND	155.36	135.94	124.29	PB-16A
Mini I/O Module — 5VDC System Voltage										
90~140VAC	7	.1~100mA	.4~30VDC	20ms	20ms	CC1222-ND	13.77	13.12	12.82	M-IAC5
3.3~32VDC	8	.1~100mA	.4~30VDC	5ms	5ms	CC1223-ND	13.77	13.12	12.82	M-IDC5
3~6VDC	19	.02~3A	12~140VAC	.5 cycle	.5 cycle	CC1224-ND	13.77	13.12	12.82	M-OAC5
3~6VDC	19	.02~3A	24~280VAC	.5 cycle	.5 cycle	CC1225-ND	14.25	13.58	13.27	M-OAC-5A
3~6VDC	14	.02~3A	3~60VDC	.3ms	.3ms	CC1226-ND	13.77	13.12	12.82	M-ODC5
Mini I/O Module — 24VDC System Voltage										
3.3~32VDC	8	.1~100mA	.4~30VDC	5ms	5ms	CC1227-ND	16.22	15.46	15.11	M-IDC-24
18~28VDC	10	.02~3A	3~60VDC	.3ms	.3ms	CC1229-ND	18.95	18.06	17.65	M-ODC24
Mounting Board for 4-pos. Mini I/O Modules (Screw Term.)						CC1230-ND	53.00	46.38	42.40	MS-4

crydom®

CKR/CKM Series DIN Rail with Integrated Heatsink

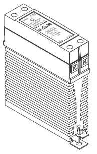

The CKR/CKM Series Solid State Relays utilize Crydom's proprietary thermal management technology providing a compact and efficient design. Built-in DIN Rail attachment, easy-to-use box clamp type terminals and integral heat sinking complete the package. This compact design offers up to 30Arms in ambient temperatures of 25°C.

Input Voltage	Features	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
CKR Series — Zero Cross Versions								
4.5 ~ 32VDC	Slim Package	24 ~ 280	.15 ~ 10	CC1517-ND	43.35	41.31	40.36	CKRD2410
	Slim Package	24 ~ 280	.15 ~ 20	CC1518-ND	46.40	44.22	43.21	CKRD2420
	Slim Package	24 ~ 280	.15 ~ 30	CC1519-ND	49.47	47.14	46.06	CKRD2430
90 ~ 280VAC	Slim Package	24 ~ 280	.15 ~ 10	CC1512-ND	46.38	44.20	43.19	CKRA2410
	Slim Package	24 ~ 280	.15 ~ 20	CC1513-ND	52.97	50.48	49.32	CKRA2420

Input Voltage	Features	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 280VAC	Slim Package	24 ~ 280	.15 ~ 30	CC1514-ND	56.58	53.92	52.68	CKRA2430
	Slim Package	48 ~ 530	.15 ~ 10	CC1515-ND	54.62	52.05	50.86	CKRA4810
	Slim Package	48 ~ 530	.15 ~ 20	CC1516-ND	58.47	55.72	54.44	CKRA4820
CKR Series — Phase Controlled Versions								
4.5 ~ 32VDC	Slim Package	24 ~ 280	.15 ~ 10	CC1528-ND	44.18	42.10	41.13	CKRD2410-10
	Slim Package	24 ~ 280	.15 ~ 20	CC1529-ND	47.23	45.01	43.98	CKRD2420-10
90 ~ 280VAC	Slim Package	24 ~ 280	.15 ~ 10	CC1523-ND	47.22	45.00	43.97	CKRA2410-10
	Slim Package	24 ~ 280	.15 ~ 20	CC1524-ND	53.80	51.27	50.09	CKRA2420-10
	Slim Package	24 ~ 280	.15 ~ 30	CC1525-ND	57.42	54.72	53.46	CKRA2430-10
	Slim Package	48 ~ 530	.15 ~ 10	CC1526-ND	56.28	53.63	52.40	CKRA4810-10
	Slim Package	48 ~ 530	.15 ~ 20	CC1527-ND	60.13	57.30	55.98	CKRA4820-10
NEW! CKM DC Output Series NEW!								
4.0 ~ 32VDC	Low Leakage	0 ~ 60VDC	10	CC1720-ND	72.32	68.92	67.34	CKM0610
	Low Leakage	0 ~ 60VDC	20	CC1721-ND	79.78	76.03	74.28	CKM0620
	Low Leakage	0 ~ 60VDC	30	CC1722-ND	94.67	90.22	88.15	CKM0630

NEW! DRA Series DIN Rail Mount

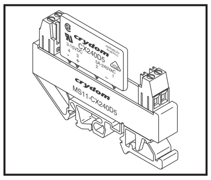

The DRA Series features 10mm wide single channel and 54mm wide four channel DIN rail mounted SSR assemblies. They also offer a wide variety of ratings which are ideal for low to medium power control for heating, lighting or motion control applications. Ready-to-use SSR assemblies for either AC or DC output 3 ~ 15 or 15 ~ 32VDC input versions include LED indicator.

Circuitry	Input Voltage (VDC)	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
SPST-NO	3 ~ 10	1 ~ 100VDC	0 ~ 6	CC1728-ND	57.43	54.73	53.47	DRA1-CMX100D6
	3 ~ 10	1 ~ 200VDC	0 ~ 3	CC1729-ND	59.15	56.37	55.08	DRA1-CMX200D3
	3 ~ 10	1 ~ 60VDC	0 ~ 8	CC1730-ND	57.43	54.73	53.47	DRA1-CMX60D10
	3 ~ 15	12 ~ 280VAC	.06 ~ 5	CC1731-ND	35.75	34.07	33.29	DRA1-CX240D5

Circuitry	Input Voltage (VDC)	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
SPST-NO	3 ~ 15	12 ~ 280VAC	.06 ~ 5	CC1732-ND	36.58	34.86	34.06	DRA1-CX240D5R
	4 ~ 15	48 ~ 530VAC	.06 ~ 5	CC1733-ND	39.18	37.34	36.48	DRA1-CX380D5
	15 ~ 32	12 ~ 280VAC	.06 ~ 5	CC1734-ND	35.75	34.07	33.29	DRA1-CXE240D5
	15 ~ 32	12 ~ 280VAC	.06 ~ 5	CC1735-ND	36.58	34.86	34.06	DRA1-CXE240D5R
	15 ~ 32	48 ~ 530VAC	.06 ~ 5	CC1736-ND	39.18	37.34	36.48	DRA1-CXE380D5
	3 ~ 15	12 ~ 280VAC	.06 ~ 5	CC1737-ND	35.75	34.07	33.29	DRA1-MCX240D5
	3 ~ 32	24 ~ 280VAC	.02 ~ 4	CC1738-ND	43.23	41.20	40.25	DRA1-MP240D4
	15 ~ 32	12 ~ 280VAC	.06 ~ 5	CC1739-ND	119.67	114.05	111.43	DRA4-CXE240D5
	3 ~ 15	12 ~ 280VAC	.06 ~ 5	CC1740-ND	119.67	114.05	111.43	DRA4-MCX240D5
	15 ~ 32	12 ~ 280VAC	.06 ~ 5	CC1741-ND	119.67	114.05	111.43	DRA4-MCXE240D5

MCTC SSR Temperature Controller

The Crydom MCTC is a unique self-contained state of the art basic temperature controller that combines all the necessary functions into one easy to set up and use standard size package. The MCTC is ideal for temperature control users that do not need multiple built-in options, displays and functions that they will never use. The unit incorporates an internally compensated thermocouple input (J or K), available temperature range of 100°F ~ 500°F, with adjustable set point using analog voltage of 0 ~ 5VDC. With integrated zerocross burst firing, and proportional derivative control to avoid set-point overshoot, the unit also includes 2 LED status indicators for visual reference of operation and set point conditions.

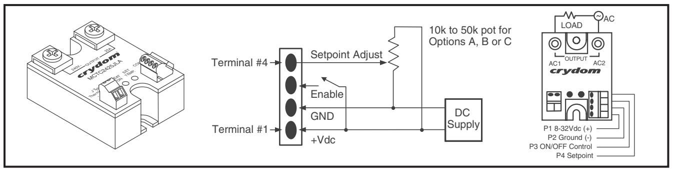

Thermocouple Input Type	Temperature Range (°F)	Setpoint Adjustment (VDC)	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
J Type	100 ~ 500	0 ~ 5	24 ~ 280	50	CC1568-ND	116.67	111.19	108.64	MCTC2450JLA
	100 ~ 500	0 ~ 5	24 ~ 280	90	CC1569-ND	140.18	133.59	130.52	MCTC2490JLA
K Type	100 ~ 500	0 ~ 5	24 ~ 280	50	CC1571-ND	116.67	111.19	108.64	MCTC2450KLA
	100 ~ 500	0 ~ 5	24 ~ 280	90	CC1572-ND	140.18	133.59	130.52	MCTC2490KLA

MCPC Proportional Controller

The Crydom MCPC series of Proportional Controllers incorporates a complete phase-fired logic system and Solid State Relay in one small industry standard package. The MCPC uses microprocessor controlled logic, accepts a wide range input logic power supply, provides an output load status indicator, and five modes of analog control input along with an enable/disable control.

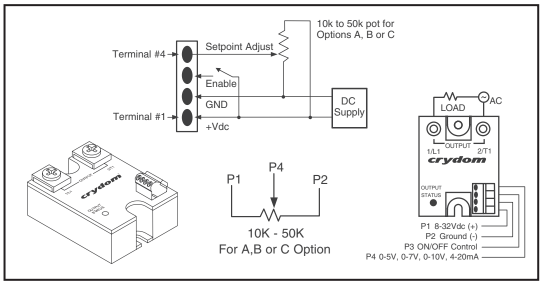

Input Voltage	Adjustment Range	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
0 ~ 5VDC	0 ~ 100% with Enable	48 ~ 140	0 ~ 25	CC1573-ND	80.83	77.03	75.26	MCPC1225A
	0 ~ 100% with Enable	48 ~ 140	0 ~ 50	CC1574-ND	86.98	82.89	80.99	MCPC1250A
	0 ~ 100% with Enable	48 ~ 140	0 ~ 90	CC1575-ND	105.40	100.45	98.15	MCPC1290A
	0 ~ 100% with Enable	180 ~ 280	0 ~ 25	CC1576-ND	80.83	77.03	75.26	MCPC2425A
	0 ~ 100% with Enable	180 ~ 280	0 ~ 50	CC1577-ND	86.98	82.89	80.99	MCPC2450A
	0 ~ 100% with Enable	180 ~ 280	0 ~ 90	CC1578-ND	105.40	100.45	98.15	MCPC2490A

Solid State Relays - G2 Series

Crydom's G2 series of SSR's feature extremely low RDSon, low leakage and long lifetimes.

Contact	Input Voltage (V)	Input I (mA)	Switch Voltage (V)	Switch I (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Crydom Part No.
DPST-NO	1.4	15 ~ 40	15	150	8-Dip	CC1314-ND‡	6.19	5.63	4.50	G2-2A03-TT
DPST-NO	1.4	15 ~ 40	15	150	8-SOP	CC1315-ND‡	6.19	5.63	4.50	G2-2A03-ST
DPST-NC	1.4	10 ~ 30	350	120	8-Dip	CC1328-ND‡	5.36	4.88	3.90	G2-DB01-TT
DPST-NC	1.4	10 ~ 30	350	120	8-SOP	CC1329CT-ND	5.36	4.88	3.90	G2-DB01-ST
DPST-NC	1.4	10 ~ 30	350	120	8-SOP	CC1329TR-ND†	5346.00/2,000			G2-DB01-SR
DPST-NC	1.4	10 ~ 30	250	140	8-Dip	CC1330-ND‡	5.36	4.88	3.90	G2-DB02-TT
DPST-NC	1.4	10 ~ 30	250	140	8-SOP	CC1331CT-ND	5.36	4.88	3.90	G2-DB02-ST

† Tape and Reel ‡ Tube

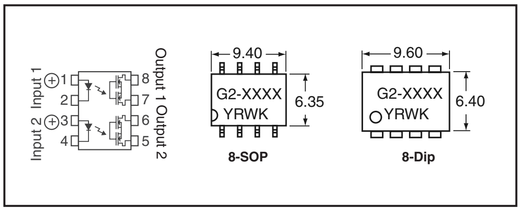

8-SOP

8-Dip

crydom®

CW Series

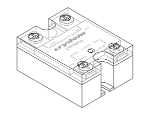

Crydom's CW24 line of solid-state relays offer an SCR AC switch output featuring low offstate leakage (1mA, snubberless), zero and random voltage switching and a broadened operating range (24 ~ 280VAC). This wide range permits optimum performance at both 120VAC and 240VAC line voltages. Also includes safe removable finger-safe cover and LED indicator.

Input Voltage	Operating Voltage	Release Voltage	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Zero Cross Versions									
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1539-ND	37.75	35.98	35.15	CWD2410
	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 25	CC1541-ND	38.12	36.33	35.50	CWD2425
	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 50	CC1543-ND	44.53	42.44	41.47	CWD2450
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 25	CC1533-ND	40.70	38.79	37.90	CWA2425
	90VAC	10VAC	24 ~ 280	.15 ~ 50	CC1535-ND	46.05	43.89	42.88	CWA2450
	90VAC	10VAC	24 ~ 280	.15 ~ 90	CC1537-ND	81.40	77.57	75.79	CWA2490

Input Voltage	Operating Voltage	Release Voltage	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Phase Controlled Versions									
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1540-ND	38.58	36.77	35.93	CWD2410-10
	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 50	CC1544-ND	45.37	43.24	42.25	CWD2450-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 10	CC1532-ND	40.75	38.83	37.94	CWD2410-10
	90VAC	10VAC	24 ~ 280	.15 ~ 90	CC1538-ND	82.23	78.37	76.57	CWD2490-10

CST CUSTOM SENSORS & TECHNOLOGIES Crouzet

Solid State Relays

• Epoxy-Free Design Eliminates Internal Component Stress • Direct Bond Copper Substrate for Superior Thermal Performance • 100k-cycle UL508 Endurance Rating for Enhanced Reliability • Back-to-Back Dual SCR Output • No External Transient Protection Required (Internal TVS) • EMC Compliant for Reliable Operation in Harsh Environments • Zero-Crossing Output

IP00 - Screw Terminal

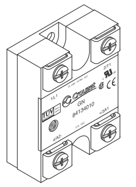

IP20 - Fingersafe Terminal

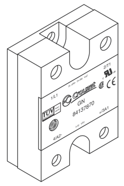

Smart Module *NEW!*

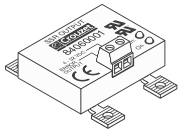

Used to monitor relay status and ensure operation. Use with IP00 package only.

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
IP00 — Screw Terminals							
3 ~ 32VDC	30A	1 ~50 VDC	646-1229-ND ***NEW!***	51.37	48.80	47.58	84134870
3 ~ 32VDC	10A	3 ~ 60VDC	646-1228-ND ***NEW!***	40.13	38.12	37.17	84134750
3 ~ 32VDC	10A	1 ~ 200VDC	646-1204-ND ***NEW!***	62.78	59.64	58.15	84134850
3 ~ 32VDC	10A	24 ~ 280VAC	646-1227-ND ***NEW!***	38.53	36.60	35.69	84134000
3 ~ 32VDC	10A	24 ~ 280VAC	646-1230-ND ***NEW!***	35.03	33.28	32.45	84134900
3 ~ 32VDC	25A	24 ~ 280VAC	646-1000-ND	40.58	38.55	37.59	84134010
3 ~ 32VDC	25A	24 ~ 280VAC	646-1231-ND ***NEW!***	38.33	36.41	35.50	84134910
3 ~ 32VDC	50A	24 ~ 280VAC	646-1001-ND	47.10	44.75	43.63	84134020

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 280VAC	25A	24 ~ 280VAC	646-1002-ND	44.78	42.54	41.48	84134011
90 ~ 280VAC	50A	24 ~ 280VAC	646-1003-ND	52.40	49.78	48.54	84134021
4 ~ 32VDC	50A	48 ~ 660VAC	646-1005-ND	58.60	55.67	54.28	84134120
4 ~ 32VDC	100A	48 ~ 660VDC	646-1203-ND ***NEW!***	87.05	82.70	80.64	84134140
90 ~ 280VAC	25A	48 ~ 660VAC	646-1006-ND	52.85	50.21	48.96	84134111
90 ~ 280VAC	50A	48 ~ 660VAC	646-1007-ND	64.35	61.13	59.60	84134121
NEW! IP00 — Quick Connect NEW!							
90 ~ 280VAC	25A	24 ~ 280VAC	646-1232-ND	40.47	38.45	37.49	84134915
NEW! IP20 — Screw Terminals NEW!							
3 ~ 32VDC	15A	1 ~ 100VDC	646-1235-ND	62.78	59.64	58.15	84137860
3 ~ 32VDC	25A	24 ~ 280VAC	646-1234-ND	46.52	44.19	43.09	84137210
4 ~ 32VDC	75A	48 ~ 660VAC	646-1233-ND	80.83	76.79	74.87	84137130
IP20 — Fingersafe Terminals							
3 ~ 32VDC	30A	1 ~ 50VDC	646-1208-ND ***NEW!***	55.23	52.47	51.16	84137870
3 ~ 32VDC	10A	3 ~ 60VDC	646-1206-ND ***NEW!***	43.67	41.49	40.46	84137750
3 ~ 32VDC	10A	1 ~ 200VDC	646-1207-ND ***NEW!***	68.87	65.43	63.80	84137850
3 ~ 32VDC	25A	24 ~ 280VAC	646-1008-ND	44.30	42.09	41.04	84137010
3 ~ 32VDC	50A	24 ~ 280VAC	646-1009-ND	50.83	48.29	47.09	84137020
90 ~ 280VAC	25A	24 ~ 280VAC	646-1010-ND	48.50	46.08	44.93	84137011
90 ~ 280VAC	50A	24 ~ 280VAC	646-1011-ND	56.27	53.46	52.13	84137021
4 ~ 32VDC	25A	48 ~ 660VAC	646-1012-ND	52.85	50.21	48.96	84137110
4 ~ 32VDC	50A	48 ~ 660VAC	646-1013-ND	62.33	59.21	57.73	84137120
4 ~ 32VDC	100A	48 ~ 660VAC	646-1205-ND ***NEW!***	90.17	85.66	83.52	84137140
90 ~ 280VAC	25A	48 ~ 660VAC	646-1014-ND	56.58	53.75	52.41	84137111
90 ~ 280VAC	50A	48 ~ 660VAC	646-1015-ND	67.93	64.53	62.92	84137121
NEW! Smart Module NEW!							
4 ~ 32VDC	30mA	24 ~ 660Vrms	646-1200-ND	43.57	41.39	40.36	84060001

DIN-Rail Mount Solid State Relays

• Epoxy - Free Design Eliminates Internal Component Stress • Direct Bond Copper Substrate for Superior Thermal Performance • 100k-cycle UL508 Endurance Rating for Enhanced Reliability • Back-to-Back Dual SCR Output • No External Transient Protection Required (Internal TVS) • EMC Compliant for Reliable Operation in Harsh Environments • Zero-Crossing or Random-Fire Output

22.5mm

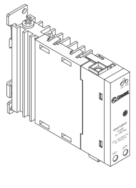

45mm

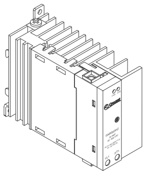

3 Phase — 90mm

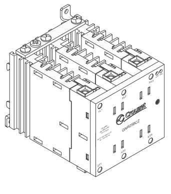

Input Voltage	Output Current (A)	Maximum Output (VAC)	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
22.5mm							
4 ~ 32VDC	10	280	646-1016-ND	57.90	55.01	53.64	GNR10DHZ
90 ~ 140VAC	10	280	646-1017-ND	58.73	55.79	54.40	GNR10BHZ
4 ~ 32VDC	20	600	646-1237-ND ***NEW!***	62.92	59.77	58.28	GNR20DCZ
4 ~ 32VDC	20	660	646-1018-ND	62.92	59.77	58.28	GNR20DHZ
90 ~ 140VAC	20	660	646-1019-ND	70.98	67.43	65.75	GNR20BHZ
4 ~ 32VDC	30	660	646-1020-ND	69.18	65.72	64.08	GNR30DHZ
90 ~ 140VAC	30	660	646-1021-ND	78.07	74.17	72.32	GNR30BHZ
45mm							
4 ~ 32VDC	35	660	646-1022-ND	80.48	76.46	74.55	GNR35DHZ
90 ~ 140VAC	35	660	646-1023-ND	83.30	79.14	77.16	GNR35BHZ
4 ~ 32VDC	45	660	646-1024-ND	88.53	84.10	82.00	GNR45DHZ
90 ~ 140VAC	45	660	646-1025-ND	91.65	87.07	84.90	GNR45BHZ
3 Phase — 90mm							
4 ~ 32VDC	25	660	646-1026-ND	211.55	200.97	195.95	GNR25DCZ
90 ~ 140VAC	25	660	646-1027-ND	215.70	204.92	199.80	GNR25BCZ

Dual Solid State Relays

- True 40A per Channel Rating @ 240VAC and 480VAC
- Dual Input Channels for Independent Output Operation
- No External Transient Protection Required (Internal TVS)
- Zero-Crossing (Resistive Loads) or Random-Fire (Inductive Loads) Outputs
- EMC Compliant

Locking Connector Input

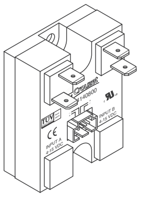

Input Voltage (VDC)	Output Current (A)	Maximum Output (VAC)	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Locking Connector							
4 ~ 15	25	24 ~ 280	646-1036-ND	69.93	66.43	64.77	84140800
17 ~ 32	25	24 ~ 280	646-1037-ND	69.93	66.43	64.77	84140810
4 ~ 15	40	24 ~ 280	646-1038-ND	76.03	72.23	70.43	84140900
17 ~ 32	40	24 ~ 280	646-1039-ND	76.03	72.23	70.43	84140910
NEW! Quick Connect NEW!							
17 ~ 32	25	24 ~ 280	646-1209-ND	68.90	65.46	63.83	84140010
17 ~ 32	25	48 ~ 660	646-1236-ND	77.60	73.72	71.88	84140510

CST CUSTOM SENSORS & TECHNOLOGIES **Crouzet**

C4 Series I/O Modules

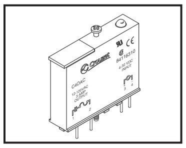

- New industry Standard Package
- Replaceable Fuse in Output Modules
- Color Coded Housing for AC or DC Input

Input Modules

Input Voltage Range	Maximum Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC	14mA	4.5 ~ 30VDC	25mA	646-1048-ND	14.90	14.16	13.81	C4IAC
140 ~ 280VAC	5mA	4.5 ~ 30VDC	25mA	646-1049-ND	15.73	14.94	14.57	C4IACA

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
24 ~ 280VAC	3.0A	4 ~ 32VDC	22mA	646-1051-ND	17.67	16.79	16.37	C4OACA
12 ~ 140VAC	3.0A	4 ~ 32VDC	22mA	646-1052-ND	17.17	16.31	15.90	C4OAC
5 ~ 60VDC	3.0A	4 ~ 32VDC	16mA	646-1053-ND	17.17	16.31	15.90	C4ODC
3 ~ 250VDC	1.0A	4 ~ 32VDC	16mA	646-1054-ND	20.58	19.55	19.06	C4ODCA

Mounting Boards for C4 Series I/O Modules

Max. No. of I/O	Dimensions (Inches) (L x W x H)†	Logic Connection	Load Connection	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
4	3.25 x 3.25 x 2.5	Screw Terminal	Screw Terminal	646-1058-ND	54.00	51.30	50.02	PB4C4

† Including I/O modules and standoffs

Quad I/O Modules

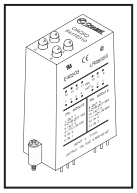

- Built in LED Status Indicator
- 4 Modules in One Package

Output Modules

Output Voltage Range	Max. Output Current	Nominal Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
3-60VDC	3.0A	5VDC	18mA	646-1069-ND	76.15	72.34	70.53	ODC5Q.11

Mounting Boards Miniature I/O

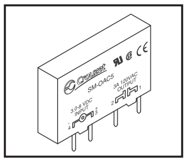

- Industry Standard Package
- Output Ratings up to 5 Amps
- Color Coded Housing for AC and DC Input

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
3 ~ 60VDC	3.0A	24VDC	13mA	646-1077-ND	18.95	18.00	17.55	SMODC24

Mounting Boards for SM Series I/O Modules

Max. No. of I/O	Dimensions (Inches) (L x W x H)†	Logic Connection	Load Connection	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
8	6.4 x 3.5 x 1.9	Card-Edge	Screw Terminal	646-1055-ND	75.52	71.74	69.95	PB8SM

† Including I/O modules and standoffs

Epoxy Encapsulated DIN Rail I/O Modules

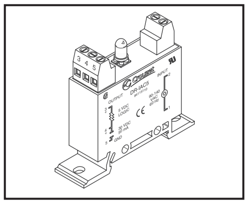

- DIN Rail Mountable I/O Modules
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Maximum Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC/DC	5mA	5VDC	28mA	646-1063-ND	30.42	28.90	28.18	DRIAC5
180 ~ 280VAC/DC	5mA	5VDC	28mA	646-1217-ND ***NEW!***	31.25	29.69	28.95	DRIAC5A
90 ~ 140VAC/DC	5mA	24VDC	28mA	646-1215-ND ***NEW!***	31.25	29.69	28.95	DRIAC24
180 ~ 280VAC/DC	5mA	24VDC	28mA	646-1216-ND ***NEW!***	32.27	30.66	29.90	DRIAC24A
4 ~ 32VDC/AC	34mA	24VDC	28mA	646-1218-ND ***NEW!***	31.25	29.69	28.95	DRIDC24

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
12 ~ 280VAC	5A	5 ~ 24VDC	18mA	646-1065-ND	33.25	31.59	30.80	DROAC
3 ~ 60VDC	3.0A	5VDC	18mA	646-1066-ND	33.25	31.59	30.80	DRODC5

DIN Rail I/O Modules

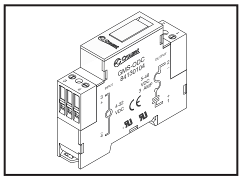

- DIN Rail Mountable I/O Modules
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Maximum Logic Supp. Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC	14mA	4.5 ~ 30VDC	32mA	646-1061-ND	34.45	32.73	31.91	84115501
180 ~ 280VAC	5mA	4.5 ~ 30VDC	32mA	646-1201-ND ***NEW!***	34.45	32.73	31.91	84115502
4 ~ 32VDC	35mA	4.5 ~ 30VDC	32mA	646-1062-ND	38.25	36.34	35.43	84115503

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
5 ~ 60VDC	3A	4 ~ 32VDC	22mA	646-1067-ND	30.82	29.28	28.55	84130104
12 ~ 280VAC	5A	4 ~ 32VDC	22mA	646-1068-ND	37.60	35.72	34.83	84130105
12 ~ 280VAC	5A	4 ~ 32VDC	22mA	646-1202-ND ***NEW!***	41.22	39.16	38.18	84130108

NEW! SIMM SPDT Output Modules

Input Voltage Range	Nominal Input Voltage	Max. Input Current	Output Voltage Range	Max. Output Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
19.2 ~ 30VDC	24VDC	20mA	1 ~ 250VAC/DC	6A	646-1210-ND	31.40	29.83	29.08	84145041
19.2 ~ 30VAC/DC	24VAC/DC	20mA	1 ~ 250VAC/DC	6A	646-1211-ND	36.48	34.65	33.79	84145042
95 ~ 125VAC/DC	110VAC/DC	5mA	1 ~ 250VAC/DC	6A	646-1212-ND	45.08	42.83	41.76	84145043
Accessories									
10 Position Bridging Jumper - Blue					646-1213-ND	15.09	14.33	13.98	84145052
10 Position Bridging Jumper - Red					646-1214-ND	15.09	14.33	13.98	54145053

crydom®

Quad I/O Modules

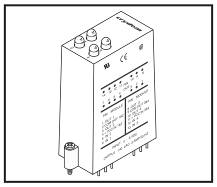

- Industry Standard Package
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator
- 4 Separate modules in one package

Note: For Mounting Boards use PB16Q, PB24Q and PB32Q

Input Modules

Input Voltage Range	Maximum Input Current	Logic Supply Voltage	Maximum Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 140VAC	6mA	5VDC	16mA	CC1636-ND	68.38	65.17	63.67	IAC5Q
12 ~ 60VDC	34mA	5VDC	16mA	CC1638-ND	68.38	65.17	63.67	IDC5Q
5 ~ 32VDC	68mA	5VDC	16mA	CC1639-ND	74.24	70.74	69.12	IDC5BQ

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
12 ~ 140VAC	3.5A	5VDC	20mA	CC1640-ND	66.92	63.77	62.31	OAC5Q
3 ~ 60VDC	3.0A	5VDC	18mA	CC1642-ND	70.47	67.16	65.62	ODC5Q

Miniature I/O Modules

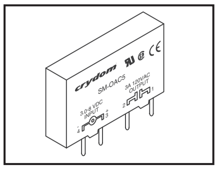

- Industry Standard Package
- Output Ratings up to 5 Amps
- Color Coded Housing for AC and DC Input

Note: For Mounting Boards use PB8SM, PB16SM and PB24SM

Input Modules

Input Voltage Range	Maximum Input Current	Logic Supply Voltage	Maximum Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 140VAC	5mA	5VDC	16mA	CC1628-ND	13.77	13.12	12.82	SM-IAC5
180 ~ 280VAC	5mA	5VDC	16mA	CC1630-ND	14.10	13.44	13.13	SM-IAC5A

Output Modules

Output Voltage Range	Maximum Output Current	Nominal Input Voltage	Maximum Input Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
12 ~ 140VAC	3.5A	5VDC	20mA	CC1631-ND	13.77	13.12	12.82	SM-OAC5
3 ~ 60VDC	3.0A	5VDC	18mA	CC1633-ND	13.77	13.12	12.82	SM-ODC5

Paladin Tools®

Adjustable Wire Stripper

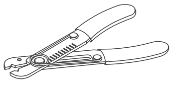

Works with standard 30 ~ 10AWG (.05 ~ 6mm) wire in addition to fiber optic cable.
Features: • V-opening in blade • Adjust blades with a screwdriver for various size cables

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Multipurpose Wire Stripper (30 ~ 10AWG)	PA1161-ND	6.99	1161

P-Strippers 10 and 20

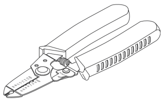

Cuts and strips a wire range of 30 ~ 10AWG. Works well for round voice and data cable, electrical wiring, hook-up wire, multi-conductor cables and coaxial cable. These strippers cover the most common range of insulated wire with precise, reliable action and durable steel craftsmanship. Strip standard insulations including PVC, rubber, polyurethane, polyethylene and silicone. Includes built-in safety lock, nose clamp, steel screw cutter and wire loop. Not for steel or armored wire and cable.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Wire Stripper Datashark (22 ~ 10AWG)	PA70056-ND	9.99	70056
Wire Stripper Datashark (30 ~ 20AWG)	PA70057-ND	9.99	70057
Wire Stripper (22 ~ 10, 30 ~ 20AWG)	PA70058-ND	16.99	70058

AM 25 and Universal Professional Slitters

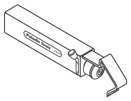

Blade swivels for circular, longitudinal and spiral cuts. Great for corrugated aluminum armor cables and mid-point taps or window slits.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
AM 25 for Cables less than 1"	PA1820-ND	55.99	1820
Universal Slitter for 0.18 ~ 1.4" Diameter Cable	PA1822-ND	27.99	1822

Grip P-Strippers 10 and 20

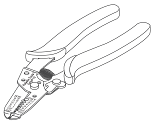

Strip 30 ~ 10AWG-wire and cable using only two tools for the most common types: electrical wire, hook-up and multi-conductor. Head and handles perfectly angled to prevent awkward wrist bends. Rubber-imbedded, non-slip handles. Screw cutter and wire loops embedded in frame. Gripping jaws on front. PAL1117 works on Romex cable individual conductors.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Grip P-Stripper 10 Cutter/Stripper (22 ~ 10AWG)	PA1117-ND	14.99	1117
Grip P-Stripper 20 Cutter/Stripper (30 ~ 20AWG)	PA1118-ND	14.99	1118
Grip P-Stripper 10/20 Cutter/Stripper (22 ~ 10, 30 ~ 20AWG)	PA1123-ND	24.99	1123

Multi-Purpose Tools

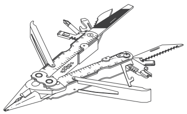

Lifetime Warranty
6510 Shown

24 Tools-In-One: • Needle Nose and Gripping Pliers • 110 and 66 Punchdown Tool • Romex® Wire Cutter • CAT5e UTP Stripper • 12/18/20/22/24AWG Strippers • Drywall Punch and Saw • #4 and #6 Slotted Screwdrivers • #1 Phillips Screwdriver • 1/4" Hex Bit Driver and Adapter • SOG Serrated Knife • 3-in-1 File • Wire Hook and Spudger • Bottle Opener • Ruler • Leather Sheath Included

30 Tools-In-One: • Needle Nose and Gripping Pliers • 110 and 66 Punchdown Blades • Wire Hook and Spudger • Romex® Wire Cutter • UTP and Round Cable Stripper • 12/14/16AWG and Romex Stripper • 18/20/22/24AWG Strippers Built-Into Punchdown Blades • Large Romex and Hard Wire Cutter • Drywall Punch and Saw • #4 and #6 Slotted Screwdrivers • #1 Phillips Screwdriver • 1/4" Socket Drive with Hex Bit Adapter • 26 ~ 18AWG Smaller Terminal Lug Crimper • 16 ~ 10AWG Large Terminal Lug Crimper • SOG Knife with 1/2 Serrated Blade • 3-in-1 File • Wire Hook and Spudger • Bottle Cap Opener • Ruler • Leather Sheath Included • Scissors

Description	Digi-Key Part No.	Price Each	Paladin Part No.
24-in-1 Multi Tool	PA6510-ND	89.99	6510
30-in-1 Multi Tool	PA6520-ND	124.99	6520

SealTite® Pro Crimper

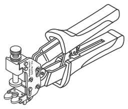

Easily crimps all compression connectors with a single tool. Reversible Head to accommodate CATV "F", BNC and RCA Connectors

Description	Digi-Key Part No.	Price Each	Paladin Part No.
SealTite Pro Crimper	PA1555-ND	69.99	1555

Cable Stripping Tools

Fig.	Description	Digi-Key Part No.	Price Each	Paladin Part No.
	3 Level Coaxial Cable Stripper			
1	Adjustable with Green Cassette	PA1240-ND	99.99	1240
1	Adjustable with Brown Cassette	PA1243-ND	99.99	1243
—	Replacement Blade for PA1240	PA2240-ND	39.99	2240
—	Replacement Blade for PA1243	PA2243-ND	39.99	2243
	Cutter and Stripper for UTP and STP Cables			
2	Cable Stripper	PA1112-ND	29.99	1112

Fig. 1

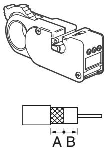

Coaxial stripping tool producing 2 and 3 level strips in cables from .100" ~ .315" (2.54 ~ 8mm) dia. Replacement blades and easy adjustment, make this tool the perfect choice.

Cassette Type	Dim. (mm) A	Dim. (mm) B
Green Cassette	7.09	5.11
Brown Cassette	7.49	3.48

Fig. 2

AM12 Multi-level adjustable cable stripper.

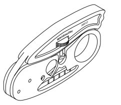

LC CST Strippers

Coaxial stripping tool producing 2 and 3 level stripping of outer jacket, shield braid and inner dielectric. Hex key makes it easy to adjust the blades to set the cutting depth. Self-regulating tensions. Pre-set strip lengths for most common lengths.

Preset Strip Lengths	Strip Types	Cable Usage	Digi-Key Part No.	Price Each	Paladin Part No.
0.315" Outer Jacket; 0.157" Inner Dielectric	2 & 3 Level Adjustable	RG58/59/62/6 and AU	PA1255-ND	17.99	1255.1
0.344" Outer Jacket; 0.094" Inner Dielectric	2 & 3 Level Adjustable	RG178, 735A, Belden 8218 and other smaller cables	PA1258-ND	17.99	1258

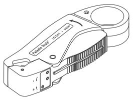

OK Industries
Division of Jonard Industries Corp.

Wire Cut and Strip Tools

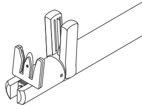

Easy and clean stripping of wires for wire wrapping, electronic and appliance applications. Strip length easily adjustable for your application. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Biomechanically designed for maximum efficiency.

Easy to operate:
Place wire (up to 4) in stripping slot with ends extending beyond cutter blades, press tool and pull, wire is cut and stripped to proper "wire stripping" length.

Wire Size AWG	Wire Size mm	Adjustable Strip-Off Length Inches (mm)	Digi-Key Part No.	Price Each
24 ~ 26	0.25	7/8 ~ 11/8 (22.22 ~ 28.57)	K502-ND	52.50
28 ~ 30	0.64 ~ 0.40	—	K512-ND	52.50

Wire Strippers

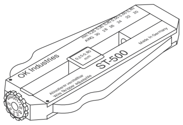

Features:
- Calibrated Strip Length (Adjustable to 2 inches)
- Single action squeeze-pull motion
- Clean, precise strip of any insulation type
- Shirt-pocket size and light weight

K276-ND	18 ~ 28AWG	**$32.90**
K503-ND	20 ~ 30AWG	**$32.90**
K544-ND	20 ~ 30AWG	**$39.60**
K545-ND	26 ~ 36AWG	**$39.60**

PATCO SERVICE INC.

Thermal Wire Strippers

- Nichrome, heating element: 450°F (232°C) in less than 5 seconds
- Stripper 1700°F (927°C) in less than 5 seconds
- Eliminates nicks and broken strands of conductors
- Handles solid, stranded and shielded wires
- Does not burn skin
- AC line power or rechargeable battery power versions
- Complete with cleaning brush and operating instructions

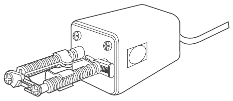

PTS-30-ND

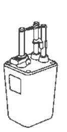

PTS-10-ND

Description	Digi-Key Part No.	Price Each
Thermal Wire Stripper with Cleaning Brush	PTS-10-ND*	75.70
Replacement Blade for PTS-10-ND	PTS-101-ND	5.19
Teflon Wire Stripper for 16-30 AWG	PTS-30-ND	115.00
Replacement Blade for PTS-30-ND	PTS-302-ND	5.32

* Will not strip Teflon wire

Crescent®

Wire Stripper and Replacement Blades

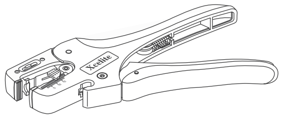

Features:
- Strips wires from 32AWG ~ 10AWG without adjustment.
- Strips a wide range of insulation types, PVC to PTFE with just one tool.
- The ergonomic design features a sculpted shape, soft grip main handle.
- Low friction moving handle optimized grip span, and angled head.

SAS3210-ND	Wire Stripper	**$70.21**
SAS3210TRB-ND	Teflon® Replacement Blade	**$29.95**

AMERICAN ELECTRICAL INC.
MFG. for AMERICAN ELECTRICAL INC. by AGRO

Tight Seal IP68 Nylon Cable Grips (Glands) with Lock Nuts

RoHS COMPLIANT

Application:
The use of synthetic cable grips is almost unlimited within the electrical and electronics industry. Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic cable grips are specified to: • Secure the cable to the enclosure's wall to provide excellent pull-out resistance. • Seal and protect the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemical vapors, or fumes. • Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.

Technical Data:

- **Material:** Polyamide PA 6, Self-Extinguishing, Halogen-free
- **Seal:** Neoprene, Oil, and Petroleum Resistant
- **Operating Temperature:** Static (-40°C ~ 100°C), Dynamic (-30°C ~ 80°C)
- **Safety Class:** IP68, Waterproof (5 Bar)
- **VDE Test Report:** 12 796-9000-4001/A 2 J

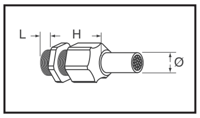

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Black	7-PG	2.5 ~ 6.5	21	8	288-1164-ND	1.65	1.49	1.16	1545.07.06
	9-PG	3.0 ~ 8.0	23	8	288-1165-ND	1.93	1.74	1.35	1545.09.08
	11-PG	4.0 ~ 10.0	22	8	288-1166-ND	2.08	1.87	1.46	1545.11.10
	11-PG	2.0 ~ 7.0	22	8	288-1167-ND	2.30	2.07	1.61	1545.11.07
	13-PG	5.5 ~ 12.0	26	9	288-1168-ND	2.40	2.16	1.68	1545.13.12
	13-PG	3.0 ~ 7.0	26	9	288-1169-ND	2.60	2.34	1.82	1545.13.07
	16-PG	8.5 ~ 14.0	30	10	288-1170-ND	2.68	2.41	1.88	1545.16.14
	16-PG	5.0 ~ 11.0	30	10	288-1171-ND	2.95	2.66	2.07	1545.16.11
	21-PG	11.0 ~ 18.0	35	11	288-1172-ND	4.25	3.83	2.98	1545.21.18
	21-PG	6.5 ~ 14.0	35	11	288-1173-ND	4.55	4.10	3.19	1545.21.14
	3/8-NPT	3.0 ~ 8.0	23	8	288-1178-ND	1.98	1.78	1.39	1545.N0375.08
	1/2-NPT	5.5 ~ 12.0	26	9	288-1179-ND	2.55	2.30	1.79	1545.N0500.12
	1/2-NPT	3.0 ~ 7.0	26	9	288-1180-ND	2.70	2.43	1.89	1545.N0500.07
	3/4-NPT	11.0 ~ 18.0	35	11	288-1181-ND	3.60	3.24	2.52	1545.N0750.18
	3/4-NPT	6.5 ~ 14.0	35	11	288-1182-ND	3.83	3.45	2.68	1545.N0750.14
	1-NPT	17.0 ~ 22.0	36	15	288-1183-ND	5.03	4.53	3.52	1545.N1000.22

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Gray	7-PG	2.5 ~ 6.5	21	8	288-1184-ND	1.65	1.49	1.16	1555.07.06
	9-PG	3.0 ~ 8.0	23	8	288-1185-ND	1.93	1.74	1.35	1555.09.08
	11-PG	4.0 ~ 10.0	22	8	288-1186-ND	2.08	1.87	1.46	1555.11.10
	11-PG	2.0 ~ 7.0	22	8	288-1187-ND	2.30	2.07	1.61	1555.11.07
	13-PG	5.5 ~ 12.0	26	9	288-1188-ND	2.40	2.16	1.68	1555.13.12
	13-PG	3.0 ~ 7.0	26	9	288-1189-ND	2.60	2.34	1.82	1555.13.07
	16-PG	8.5 ~ 14.0	30	10	288-1190-ND	2.68	2.41	1.88	1555.16.14
	16-PG	5.0 ~ 11.0	30	10	288-1191-ND	2.95	2.66	2.07	1555.16.11
	21-PG	11.0 ~ 18.0	35	11	288-1192-ND	4.25	3.83	2.98	1555.21.18
	21-PG	6.5 ~ 14.0	35	11	288-1193-ND	4.55	4.10	3.19	1555.21.14
	29-PG	17.0 ~ 25.0	36	11	288-1194-ND ***NEW!***	4.25	3.83	2.98	1555.29.25
	36-PG	22.0 ~ 33.0	48	15	288-1195-ND ***NEW!***	15.93	14.34	11.15	1555.36.33
	3/8-NPT	3.0 ~ 8.0	23	8	288-1198-ND	1.98	1.78	1.39	1555.N0375.08
	1/2-NPT	5.5 ~ 12.0	26	9	288-1199-ND	2.55	2.30	1.79	1555.N0500.12
	1/2-NPT	3.0 ~ 7.0	26	9	288-1200-ND	2.70	2.43	1.89	1555.N0500.07
	3/4-NPT	11.0 ~ 18.0	35	11	288-1201-ND	3.60	3.24	2.52	1555.N0750.18
	3/4-NPT	6.5 ~ 14.0	35	11	288-1202-ND	3.83	3.45	2.68	1555.N0750.14
	1-NPT	17.0 ~ 22.0	36	15	288-1203-ND	5.03	4.53	3.52	1555.N1000.22

Amphenol® Industrial

Cord Grips

Aluminum Body and Compression Nut with Washer and Single Hole Oil-Resistant Grommet
This small body connector is ideal for internal uses, as well as conduit hub and panelboard mounting into threaded bodies or with locknuts. Complete units listed require no other parts except cable. Suitable for use in hazardous locations per National Electric Code Class 1, Div.2; Class II, Div. 1 & 2; Class III, Div. 1 & 2. UL listed File No. E53509 and Certified File No. LR-64107.

90° Elbow Body

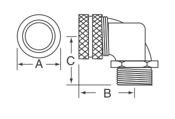

45° Elbow Body

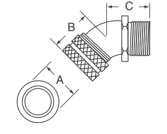

Conduit Hub Size - Inch	Panel Hole Size - Inch	Cord Diameter Range	Dimensions - Inches A	B	C	Digi-Key Part No.	Price Each 1	5	10	Amphenol Part No.
90° Elbow Body, Male Thread										
1/2	7/8 NPT	.375 ~ .500	1.13	1.88†	1.44	DB-990-ND	23.10	19.75	18.26	DB-990
1/2	7/8 NPT	.500 ~ .625*	1.13	1.88†	1.44	DB-1090-ND	23.10	19.75	18.26	DB-1090
45° Elbow Body, Male Thread										
1/2	7/8 NPT	.375 ~ .500	1.13	1.31†	1.31	DB-945-ND	31.81	27.19	25.14	DB-945
1/2	7/8 NPT	.500 ~ .625	1.13	1.31†	1.31	DB-1045-ND	31.81	27.19	25.14	DB-1045

* Maximum cord size will not pass through body without removing outer jacket.

† Dimension B with nut snug, grommet not compressed.

AlphaWire
Cables you trust. Service you deserve.

Bus Bar Wire

Description: • Electrolytic Soft Drawn and Annealed Solid Pure Tin Plated Copper
Specifications: • MIL-W-3861 Type S • QQ-W-343 Type S • CID A-A-59551 Type S • ASTM B 33 Type S

Conductor Size (AWG)	Diameter Inch (mm)	Digi-Key Part No.	Price Per Roll 100 ft.	Price Per Roll 1,000 ft.	Alpha Part No.
30	.010 (.25)	299/3 SV005-ND◆	42.05	—	299/3 SV005
26	.016 (.41)	299/1 SV005-ND◆	42.75	—	299/1 SV005
24	.020 (.51)	299 SV005-ND◆	44.26	—	299 SV005
30	.010 (.25)	A299/3SV-1000-ND◆	—	171.97	299/3 SV001
28	.013 (.33)	A299/2SV-1000-ND◆	—	183.67	299/2 SV001
26	.016 (.41)	A299/1SV-1000-ND◆	—	210.42	299/1 SV001
24	.020 (.51)	A299SV-1000-ND◆	—	221.33	299 SV001
22	.025 (.64)	A298SV-1000-ND◆	—	243.16	298 SV001
20	.032 (.81)	A297SV-1000-ND◆	—	322.13	297 SV001
18	.040 (1.02)	A296SV-1000-ND◆	—	457.25	296 SV001
16	.051 (1.30)	A295SV-1000-ND◆	—	593.52	295 SV001
12	.081 (2.06)	A289SV-1000-ND	—	1291.12	289 SV001

◆ ***RoHS Compliant***

Tinned Copper Flat Braid

RoHS COMPLIANT

Description:
• Ground/Shielding Terminations • Used as a ground strap, provides excellent, low-resistant ground path • Ideal shielding material for short-run cables providing easy radial termination • Values shown for Current Carrying Capacity are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service.

Specifications:
• QQ-W-343E, ASTM-B-33

Nominal Flat Width Inch (mm)	Nominal Thickness Inch (mm)	Braid Construction AWG of Individual Ends	Braid Construction Carriers	Braid Construction Total No. of Individual Ends	Approx. AWG Equivalent	Approx. Current Carrying Capacity (Amps)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
.188 (4.76)	.020 (.50)	36	24	120	15	25	A1230SV-100-ND*	139.05	1230 SV005
.250 (6.35)	.030 (.76)	36	24	168	14	32	A1231SV-100-ND*	187.88	1231 SV005
.375 (9.53)	.030 (.76)	36	48	288	12	46	A1232SV-100-ND	253.84	1232 SV005

* Meets QQ-B-575B

3M

Round Jacketed/Shielded Twisted Pair Cable – 3644B Series

RoHS COMPLIANT

UL File No.:
E118773

Physical Specifications:
• Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Beige • Primary Material: Polyolefin (PO) • Shielding: 0.001" (0.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

Electrical Specifications:
• Voltage Rating: USA: N.E.C. 725, CL2; Canada: 150V; EU: <50V • Insulation Resistance: >1 x $10^{10}\Omega$/10ft.

Environmental Specifications:
• Temperature Rating: USA: CL2: 75°C maximum; Canada: 80°C

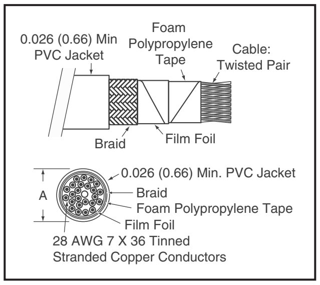

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Pricing Per Roll 25 ft. ★	50 ft. ★	100 ft. ★
14	0.22 (5.6)	MB14T-X-ND	42.63	73.50	117.60
16	0.23 (5.8)	MB16T-X-ND	48.72	84.00	134.40
20	0.24 (6.1)	MB20T-X-ND	60.90	105.00	168.00
24	0.25 (6.4)	MB24T-X-ND	77.65	133.88	214.20
26	0.25 (6.4)	MB26T-X-ND	79.17	136.50	218.40
36	0.29 (7.4)	MB36T-X-ND	109.62	189.00	302.40
40	0.30 (7.6)	MB40T-X-ND	121.80	210.00	336.00
50	0.32 (8.1)	MB50T-X-ND	152.25	262.50	420.00
68	0.37 (9.4)	MB68T-X-ND	207.06	357.00	571.20
80	0.39 (9.9)	MB80T-X-ND	259.63	447.64	716.22
100	0.44 (11.2)	MB100T-X-ND	309.08	532.90	852.64

★ Cable available on a xxx ft. roll

Round Jacketed/Shielded Twisted Pair Cable – 3600B Series

RoHS COMPLIANT

UL File No.:
E118773

Physical Specifications:
• Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Beige • Primary Material: PVC • Shielding: 0.001" (0.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

Electrical Specifications:
• Voltage Rating: USA: N.E.C. 725, CL2; Canada: 150V • Insulation Resistance: >1 x $10^{10}\Omega$/10ft.

Environmental Specifications:
• Temperature Rating: USA: CL2: 75°C maximum; Canada: 80°C

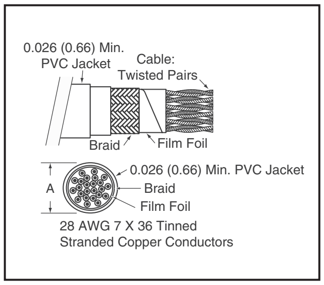

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Pricing Per Roll 25 ft. ★	50 ft. ★	100 ft. ★
14	0.22 (5.6)	MB14S-X-ND	30.44	52.48	83.96
20	0.24 (6.1)	MB20S-X-ND	44.96	77.51	124.02
24	0.25 (6.4)	MB24S-X-ND	53.95	93.03	148.84
26	0.25 (6.4)	MB26S-X-ND	56.53	97.46	155.94
36	0.29 (7.4)	MB36S-X-ND	78.27	134.95	215.92
40	0.30 (7.6)	MB40S-X-ND	89.25	153.88	246.20
50	0.32 (8.1)	MB50S-X-ND	95.89	165.33	264.52
68	0.36 (9.1)	MB68S-X-ND	147.48	254.28	406.84
80	0.39 (9.9)	MB80S-X-ND	173.97	299.95	479.92
100	0.44 (11.2)	MB100S-X-ND	240.91	415.36	664.58

★ Cable available on a xxx ft. roll

DABURN

Plastic Kinkless Test Lead Wire

• Soft formulation vinyl maximum flexibility • Temperature stability from -80°C ~ 105°C • Exceed requirements for MIL-I-3930A Type JP(PVC) • Suitable for test leads, etc. • Resistant to gasoline and oil • Excellent abrasion resistance. **Description:** One conductor tinned copper stranded, special formulation vinyl insulation - smooth surface **Operating Temperature:** -80°C ~ 105°C, 5000V rating

Feet	Size (AWG)	Strand	Ins. (mm)	O.D. Nom. (mm)	Digi-Key Part No. Red	Black	Yellow	Green	Blue	White	Price Per Roll
100	22	26/36	.81	2.54	W2722R-100-ND◆	W2722B-100-ND	W2722Y-100-ND	W2722G-100-ND◆	W2722L-100- ND◆	W2722W-100-ND◆	16.32
1,000	22	26/36	.81	2.54	W2722R-1000-ND◆	W2722B-1000-ND	W2722Y-1000-ND	W2722G-1000-ND◆	—	W2722W-1000-ND◆	107.84
100	20	26/34	.81	2.64	W2720R-100-ND◆	W2720B-100-ND◆	W2720Y-100-ND◆	W2720G-100-ND◆	W2720L-100-ND◆	W2720W-100-ND◆	16.87
1,000	20	26/34	.81	2.64	W2720R-1000-ND◆	W2720B-1000-ND◆	W2720Y-1000-ND◆	—	—	W2720W-1000-ND◆	129.63
100	18	65/36	.81	2.84	W2718R-100-ND	W2718B-100-ND◆	W2718Y-100-ND	W2718G-100-ND	W2718L-100-ND◆	W2718W-100-ND◆	27.53
1,000	18	65/36	.81	2.84	W2718R-1000-ND	W2718B-1000-ND	W2718Y-1000-ND	W2718G-1000-ND	—	W2718W-1000-ND◆	188.55
100	16	65/34	.81	3.28	W2716R-100-ND◆	W2716B-100-ND◆	W2716Y-100-ND◆	W2716G-100-ND◆	W2716L-100-ND◆	W2716W-100-ND◆	30.90
1,000	16	65/34	.81	3.28	W2716R-1000-ND◆	W2716B-1000-ND◆	W2716Y-1000-ND◆	—	W2716L-1000-ND◆	—	264.74

◆ *RoHS Compliant*

Rubber Kinkless Test Lead Wire

RoHS COMPLIANT

Suitable as Test Lead Wire in analyzers, instruments, oscillators, meters, etc., wherever extra flexibility and limpness are necessary. Single conductor, extra flexible stranded soft tinned copper, color-coded rubber, smooth wax finish. **Operating Temperature:** -20°C ~ 60°C

Feet	Size (AWG)	Nom. Strand	Breakdown Ins. Wall	Voltage	Nom. Voltage	O.D. Nom. (mm)	Digi-Key Part No. Red	Black	Price Per Roll
100	20	41/36	1.19mm	12,000	3,000	3.48	W2715R-100-ND	W2715B-100-ND	50.71
1,000	20	41/36	1.19mm	12,000	3,000	3.48	W2715R-1000-ND	W2715B-1000-ND	334.70

General Cable CAROL® BRAND

Rubber/PVC/Polyethylene Test Lead Wires

RoHS COMPLIANT

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded Rubber, PVC or Polyethylene • Temperature Range: -20°C ~ 60°C for Rubber; -25°C ~ 60°C for PVC; -20°C ~ 80°C for Polyethylene

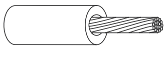

No. of Cond.	Cond. Size (AWG)	Strand	Nom. Ins. Thick. (mm)	Working Voltage	Color	Nom. O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	General Cable Part No.
Rubber Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1321B-X-ND	38.37	157.08	C1321.21.01
1	18	65/36	1.14	5,000V	Red	3.56	C1321R-X-ND	38.37	157.08	C1321.21.03
PVC Test Lead										
1	18	65/36	1.14	5,000V	Black	3.56	C1320B-X-ND	32.98	128.52	C1320.21.01
NEW! Polyethylene Test Lead NEW!										
1	14	105/34	0.81	600V	Black	3.56	C7108A-1000-ND	—	305.47	C7108A.41.01

PVC Coated Speaker Cable

RoHS COMPLIANT

Conductor: Fully annealed 1 bare, 1 tin stranded copper per ASTM B-174
Insulation: Clear; Premium grade PVC
Jacket: PVC Clear
Temperature Range: -20°C ~ 60°C
Voltage Rating: UL listed (wires, misc.) 120V maximum
Length Tolerance: ±10%

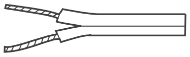

No. of Cond.	Cond. Size (AWG)	Strand	Nom. Ins. Thickness (mm)	Nominal O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 500 ft.	1,000 ft.	General Cable Part No.
2	24	7/32	0.41	1.40 x 2.79	120	C1356-X-ND	32.62	58.72	C1356
2	22	7/30	0.51	1.78 x 3.68	120	C1362-X-ND	49.12	90.46	C1362
2	20	10/30	0.51	2.16 x 4.06	120	C1360-1000-ND	—	124.20	C1360
2	18	16/30	0.64	2.54 x 4.75	120	C1357-X-ND	81.88	154.41	C1357
2	16	26/30	0.64	2.84 x 5.33	120	C1358-500-ND	121.69	—	C1358
2	14	41/30	0.64	3.05 x 5.84	120	C1361-500-ND	194.44	—	C1361

NEW! Helix/Hi-Temp® Category 5e Cable

c UL us LISTED

RoHS COMPLIANT

Conductor: 24AWG solid bare annealed copper

Insulation: Non-Plenum: Polyolefin flame-retardant PVC

Temperature Range: -10°C ~ 60°C

Compliances: ANSI/TIA/EIA 568 B.2, ICEA S-90-661

Electrical Characteristics	
DC Resistance (max.) Ω/100m (328ft) @ 20°C	8.9
Capacitance (nom.) pF/ft @ 1KHz	14
Delay Skew (max.) ns/100m	45
Impedance Frequency (f): 1-100MHz	100 ±15Ω

No. of Cond.	Color	Strand	Nom. O.D. (mm)	Digi-Key Part No.	Price Per 1,000 ft.	General Cable Part No.
8	White	Solid	5.08	CR5W-1000-ND	119.00	CR5.30.02
8	Blue	Solid	5.08	CR5L-1000-ND	119.00	CR5.30.07

NEW! Color-Coded PVC Speaker Cable

RoHS COMPLIANT

Conductor: Tinned annealed stranded copper per ASTM B-33

Insulation: Premium-grade, color-coded PVC

Temperature Range: -30°C ~ 80°C

No. of Cond.	Cond. Size (AWG)	Color	Strand	Nom. Ins. Thickness (mm)	Nom. O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	Price Per 1,000 ft.	General Cable Part No.
2	18	Black-White	7/.0152	0.51	4.37	900	C7102A-1000-ND	214.40	C7102A.41.99

AlphaWire
Cables you trust. Service you deserve.

High Voltage Test Lead Wire

• Stranded Tinned Copper Conductor • Insulation: Color-Coded Rubber • Operating Temperature: -30°C ~ 90°C

RoHS COMPLIANT

Conductor Size (AWG)	Voltage	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**
20	1,500V	41/36	.040 (1.02)	.125 (3.18)	A1632□-100-ND	94.21	1632 □ □005
18	5,000V	65/36	.045 (1.14)	.140 (3.56)	A1636□-100-ND	120.74	1636 □ □005

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **B** = Black **R**= Red
** For □□ in Alpha Part No. choose letters which represents color of your choice: **BK** = Black **RD** = Red

NEW! High Voltage Silicone Hook-Up Wire

RoHS COMPLIANT

Operating Temperature: -40°C ~ 150°C (UL AWM Style 3239)

Conductor Size (AWG)	Conductor Strand	Voltage Rating (V)	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Wire Part No.*	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Wire Part No.*
12	65/30	30,000	.075 (1.90)	.243 (6.17)	391275 □□005-ND	557.76	391275 □□005	391275 □□001-ND	1864.46	391275 □□001
	65/30	40,000	.097 (2.46)	.287 (7.29)	391297 □□005-ND	668.27	391297 □□005	391297 □□001-ND	2041.55	391297 □□001
14	41/30	10,000	.040 (1.02)	.154 (3.91)	391440 □□005-ND	403.86	391440 □□005	391440 □□001-ND	1037.84	391440 □□001
	41/30	600	.047 (1.19)	.168 (4.27)	391441 □□005-ND‡	159.21	391441 □□005	391441 □□001-ND‡	762.80	391441 □□001
20	10/30	20,000	.050 (1.27)	.137 (3.48)	392050 □□005-ND	303.30	392050 □□005	392050 □□001-ND	769.70	392050 □□001
	10/30	25,000	.062 (1.57)	.161 (4.09)	392062 □□005-ND	305.84	392062 □□005	392062 □□001-ND	941.62	392062 □□001
	10/30	30,000	.075 (1.90)	.187 (4.75)	392075 □□005-ND	406.77	392075 □□005	392075 □□001-ND	1375.10	392075 □□001
	10/30	40,000	.097 (2.46)	.231 (5.87)	392097 □□005-ND	418.40	392097 □□005	392097 □□001-ND	1598.66	392097 □□001
22	7/30	600	.047 (1.19)	.124 (3.14)	392207 □□005-ND‡	81.88	392207 □□005	392207 □□001-ND‡	466.03	392207 □□001
	7/30	10,000	.040 (1.02)	.111 (2.82)	392240 □□005-ND	256.08	392240 □□005	392240 □□001-ND	626.37	392240 □□001
	7/30	15,000	.045 (1.14)	.120 (3.05)	392245 □□005-ND	265.77	392245 □□005	392245 □□001-ND	666.24	392245 □□001
	7/30	20,000	.050 (1.27)	.131 (3.33)	392250 □□005-ND	277.36	392250 □□005	392250 □□001-ND	703.70	392250 □□001
	7/30	25,000	.062 (1.57)	.154 (3.91)	392262 □□005-ND	291.38	392262 □□005	392262 □□001-ND	876.80	392262 □□001
	7/30	30,000	.075 (1.90)	.180 (4.57)	392275 □□005-ND	320.21	392275 □□005	392275 □□001-ND	1125.66	392275 □□001
	7/30	40,000	.097 (2.46)	.224 (5.69)	392297 □□005-ND	392.94	392297 □□005	392297 □□001-ND	1310.85	392297 □□001

* For □□ in Digi-Key Part Number and Alpha Part Number, choose letters which represent color of your choice: **BK** = Black **WH** = White ‡ UL AWM Style 3212

Teflon® Hook-Up Wire

Certified Performance
High-Reliability
TFE Teflon® Insulation

Description: • Stranded Silver-Plated Copper Conductor • Color coded Extruded TFE Teflon® Insulation • Flammability: Passes UL VW-1 Flame Test • Not degraded by chemicals, ideal for harsh environments

Choose TFE Teflon® For: • Resistance to All Chemicals • High Temperature use up to 200°C • Low Coefficient of Friction • Outstanding Electrical Properties

Operating Temperature: 600 Volt: -60°C ~ 200°C (UL 105°C), (MIL-W-16878E Type E, UL AWM Style 1213)

Conductor Size (AWG)	Conductor Strand	Insulation Thick Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**
			Stranded 600 Volt Rating			
30	7/38	.010 (.25)	.032 (.81)	A5851□-100-ND◆	51.30	5851 □□005
28	7/36	.010 (.25)	.036 (.91)	A5852□-100-ND◆	52.20	5852 □□005
26	7/34	.010 (.25)	.040 (1.02)	A5853□-100-ND◆	56.14	5853 □□005
24	19/36	.010 (.25)	.045 (1.14)	A5854□-100-ND◆	74.03	5854 □□005
24	7/32	.010 (.25)	.044 (1.12)	A58547□-100-ND◆	60.41	5854/7 □□005
22	19/34	.010 (.25)	.051 (1.30)	A5855□-100-ND◆	75.15	5855 □□005
22	7/30	.010 (.25)	.055 (1.27)	A58557□-100-ND	88.31	5855/7 □□005
20	19/32	.010 (.25)	.059 (1.50)	A5856□-100-ND◆	107.10	5856 □□005
18	19/30	.010 (.25)	.070 (1.78)	A5857□-100-ND◆	152.89	5857 □□005
16	19/29	.010 (.25)	.077 (1.96)	A5858□-100-ND◆	186.41	5858 □□005
14	19/27	.012 (.30)	.094 (2.39)	A5859□-100-ND◆†	227.72	5859 □□005

◆ ***RoHS Compliant*** † Not UL AWM Style 1213 ***Note: Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.***

* For □ in Digi-Key Part Number, choose letter which represents color of your choice:
B = Black **R** = Red **W** = White

** For □□ in Alpha Part Number choose letters which represent color of your choice:
BK = Black **RD** = Red **WH** = White

NEW! Eco Wire™ Hook-Up Wire

RoHS COMPLIANT

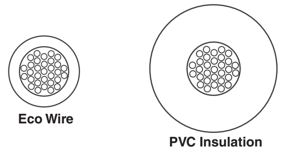

Alpha Wire's Eco Wire is the latest innovation in hook-up wire. Eco Wire combines increased performance with a minimized environmental impact. Eco Wire derives its advantage from patented Noryl insulation, a modified polyphenylene ether (mPPE) thermoplastic. Noryl is inherently lighter, tougher, and more durable than PVC. The result is UL AWM wire that is smaller than PVC-based counterparts.

Materials: • Conductors: Stranded • Insulation: Noryl modified polyphenylene ether

Operating Temperature: -40°C ~ 105°C

Approvals: REACH compliant

Conductor Size (AWG)	Conductor Strand	Voltage Rating (V)	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Wire Part No.*	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Wire Part No.*
28	7/36	600	0.009 (0.23)	0.034 (0.86)	6710 □□005-ND	28.89	6710 □□005	6710 □□001-ND	153.66	6710 □□001
26	7/34	600	0.009 (0.23)	0.038 (0.96)	6711 □□005-ND	32.47	6711 □□005	6711 □□001-ND	172.64	6711 □□001
24	7/32	600	0.009 (0.23)	0.043 (1.09)	6712 □□005-ND	36.65	6712 □□005	6712 □□001-ND	194.90	6712 □□001
22	7/30	600	0.009 (0.23)	0.049 (1.24)	6713 □□005-ND	43.72	6713 □□005	6713 □□001-ND	196.33	6713 □□001
20	10/30	600	0.009 (0.23)	0.055 (1.40)	6714 □□005-ND	51.73	6714 □□005	6714 □□001-ND	232.39	6714 □□001
18	16/30	600	0.009 (0.23)	0.067 (1.70)	6715 □□005-ND	68.67	6715 □□005	6715 □□001-ND	308.45	6715 □□001
16	26/30	600	0.011 (0.28)	0.081 (2.06)	6716 □□005-ND	91.15	6716 □□005	6716 □□001-ND	409.41	6716 □□001
14	41/30	600	0.011 (0.28)	0.096 (2.44)	6717 □□005-ND	138.04	6717 □□005	6717 □□001-ND	522.11	6717 □□001

* For □□ in Digi-Key Part Number and Alpha Part Number, choose letters which represent color of your choice: **BK** = Black **BL** = Blue **BR** = Brown **GR** = Green **GY** = Green/Yellow **OR** = Orange **RD** = Red **WH** = White **YL** = Yellow

AlphaWire
Cables you trust. Service you deserve.

Hook-Up Wire

Description: • Stranded or solid tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test (except 1852 to 1859/19) • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade **Operating Temperature: 300 Volt:** -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007) **600 Volt:** -20°C ~ 105°C (UL1015, CSA TEW-105), -55°C ~ 105°C (MIL-W-16878E Type B) also (MIL-W-76B Type LW)

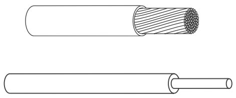

◊ HU-KIT-20-ND
Five 100-ft. spools, 22AWG, 300V stranded wire (black, white, red, green and blue)......... **$223.50**

§ HU-KIT-40-ND
Five 100-ft. spools, 24AWG, 300V stranded wire (black, white, red, green and blue)......... **$223.50**

Each kit comes in a convenient wall dispenser and includes wire cutter.

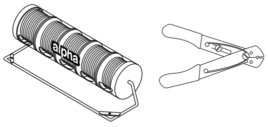

Conductor Size (AWG)	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Part No.**
Stranded — 300 Volt Rating									
30	7/38	.016 (.41)	.043 (1.09)	A3047□-100-ND◆†	33.30	3047 □ □005	A3047□-1000-ND†	163.58	3047 □□001
28	7/36	.016 (.41)	.047 (1.19)	A3048□-100-ND◆†	29.93	3048 □ □005	A3048□-1000-ND◆†	148.28	3048 □□001
26	7/34	.016 (.41)	.051 (1.30)	A3049□-100-ND◆†	32.29	3049 □ □005	A3049□-1000-ND◆†	153.56	3049 □□001
24	7/32	.016 (.41)	.057 (1.45)	A2015□-100-ND◆§	33.08	3050 □ □005	A2015□-1000-ND◆	155.48	3050 □□001
22	7/30	.016 (.41)	.065 (1.65)	A2016□-100-ND◆◊	37.46	3051 □ □005	A2016□-1000-ND◆	171.34	3051 □□001
20	10/30	.016 (.41)	.071 (1.80)	A2040□-100-ND◆	45.45	3053 □ □005	A2040□-1000-ND◆	217.58	3053 □□001
18	16/30	.016 (.41)	.080 (2.03)	A2064□-100-ND◆	53.21	3055 □ □005	A2064□-1000-ND◆	217.74	3055 □□001
16	26/30	.016 (.41)	.095 (2.41)	A2065□-100-ND◆	75.60	3057 □ □005	A2065□-1000-ND	325.00	3057 □□001
Solid — 300 Volt Rating									
24	Solid	.016 (.41)	.057 (1.45)	A3050□-100-ND◆†	27.00	3050/1 □ □005	—	—	—
22	Solid	.016 (.41)	.065 (1.65)	A3051□-100-ND◆†	30.71	3051/1 □ □005	—	—	—
20	Solid	.016 (.41)	.071 (1.80)	A3053□-100-ND◆†	37.01	3053/1 □ □005	—	—	—
16	Solid	.016 (.41)	.095 (2.41)	A3057□-100-ND†	61.88	3057/1 □ □005	—	—	—
Stranded — 600 Volt Rating, -20°C to 105°C									
24	7/32	.032 (.81)	.088 (2.24)	A3070□-100-ND◆†	37.58	3070 □ □005	—	—	—
22	7/30	.032 (.81)	.094 (2.39)	A2101□-100-ND◆	40.05	3071 □ □005	A2101□-1000-ND	206.21	3071 □□001
20	10/30	.032 (.81)	.100 (2.54)	A2102□-100-ND◆	49.73	3073 □ □005	A2102□-1000-ND	219.64	3073 □□001
18	16/30	.032 (.81)	.112 (2.84)	A2103□-100-ND◆	68.29	3075 □ □005	A2103□-1000-ND◆	291.08	3075 □□001
16	26/30	.032 (.81)	.124 (3.15)	A2104□-100-ND◆	87.64	3077 □ □005	A2104□-1000-ND	420.28	3077 □□001
14	41/30	.032 (.81)	.134 (3.61)	A3079□-100-ND◆†	117.34	3079 □ □005	—	—	—
12	65/30	.032 (.81)	.162 (3.93)	A3080□-100-ND†	194.37	3080 □ □005	—	—	—
10	105/30	.032 (.81)	.180 (4.83)	A3081□-100-ND‡	304.48	3081 □ □005	—	—	—
Stranded — 600 Volt Rating, -55°C to 105°C (available in black, white or red only) — RoHS Compliant									
28	7/36	.010 (.25)	.034 (.86)	A1852□-100-ND	36.90	1852 □□005	—	—	—
26	7/34	.010 (.25)	.038 (.96)	A1853□-100-ND	36.90	1853 □□005	—	—	—
24	7/32	.010 (.25)	.043 (1.09)	A1854□-100-ND	37.58	1854 □□005	—	—	—
24	19/36	.010 (.25)	.043 (1.09)	A185419□-100-ND	60.30	1854/19 □□005	—	—	—
22	7/30	.010 (.25)	.050 (1.27)	A1855□-100-ND	40.28	1855 □□005	—	—	—
22	19/34	.010 (.25)	.050 (1.27)	A185519□-100-ND	78.98	1855/19 □□005	—	—	—
20	7/28	.010 (.25)	.058 (1.47)	A1856□-100-ND	50.40	1856 □□005	—	—	—
20	19/32	.010 (.25)	.058 (1.47)	A185619□-100-ND	78.08	1856/19 □□005	—	—	—
18	19/30	.010 (.25)	.068 (1.73)	A185719□-100-ND	115.43	1857/19 □□005	—	—	—
16	19/29	.010 (.25)	.077 (1.96)	A185819□-100-ND	76.61	1858/19 □□005	—	—	—
14	19/27	.010 (.25)	.091 (2.31)	A185919□-100-ND	154.24	1859/19 □□005	—	—	—

* For □ in Digi-Key Part Number, choose letter which represents color of your choice:

A = Orange	**B** = Black	**G** = Green	**L** = Blue	**N** = Brown
R = Red	**S** = Gray	**V** = Violet	**W** = White	**Y** = Yellow
E = Green/Yellow (Stranded wire only)				

** For □□ in Alpha Part Number, choose letters which represent color of your choice:

OR = Orange	**BK** = Black	**GR** = Green	**BL** = Blue	**BR** = Brown
RD = Red	**SL** = Gray	**VI** = Violet	**WH** = White	**YL** = Yellow
GY = Green/Yellow (Stranded wire only)				

◆ ***RoHS Compliant*** ‡ Only available in Black, White, Red and Green † Not available in green/yellow

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General Cable CAROL® BRAND

Hook-Up Wire

Conductor: • Fully annealed tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded PVC • Temperature Range: -20°C ~ 105°C • Voltage Rating: 300 Volts • Nominal Insulation Thickness: 0.016 (0.41mm) **Compliances:** • OSHA acceptable **Length Tolerance:** • ±1%

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Cond. Size (AWG)	Cond. Strand	Insulation O.D. Inch (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.	General** Cable Part No.	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.	General** Cable Part No.
Solid Conductors — 300 Volt Rating								
24	Solid	.052 (1.32)	C2003□-100-ND	15.03	C2003A.12.□□	C2003□-1000-ND	51.62	C2003A.21.□□
22	Solid	.057 (1.45)	C2004□-100-ND	15.97	C2004A.12.□□	C2004□-1000-ND	59.36	C2004A.21.□□
20	Solid	.064 (1.63)	C2028□-100-ND	19.08	C2028A.12.□□	C2028□-1000-ND	84.81	C2028A.21.□□
18	Solid	.072 (1.83)	C2052□-100-ND	23.68	C2052A.12.□□	C2052□-1000-ND	122.45	C2052A.21.□□
16	Solid	.083 (2.11)	C2053□-100-ND	29.26	C2053A.12.□□	C2053□-1000-ND	168.10	C2053A.21.□□
Stranded Conductors — 300 Volt Rating								
24	7/32	.056 (1.42)	C2015□-100-ND	15.93	C2015A.12.□□	C2015□-1000-ND	59.02	C2015A.21.□□
22	7/30	.062 (1.57)	C2016□-100-ND	17.28	C2016A.12.□□	C2016□-1000-ND	70.07	C2016A.21.□□
20	10/30	.070 (1.78)	C2040□-100-ND	20.02	C2040A.12.□□	C2040□-1000-ND	92.50	C2040A.21.□□
18	16/30	.080 (2.03)	C2064□-100-ND	25.42	C2064A.12.□□	C2064□-1000-ND	136.65	C2064A.21.□□
16	26/30	.092 (2.34)	C2065□-100-ND	32.57	C2065A.12.□□	C2065□-1000-ND	195.15	C2065A.21.□□

Stranded, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1

Cond. Size (AWG)	Strand	Nom. O.D. Inch (mm)	Insulation Thickness Inch (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.	General** Cable Part No.	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.	General** Cable Part No.
Stranded — 600 Volt Rating									
24	7/32	.088 (2.24)	.032 (0.81)	C2100□-100-ND	16.76	C2100A.12.□□	C2100□-1000-ND	83.55	C2100A.21.□□
22	7/30	.094 (2.39)	.032 (0.81)	C2101□-100-ND	18.93	C2101A.12.□□	C2101□-1000-ND	83.55	C2101A.21.□□
20	10/30	.102 (2.59)	.032 (0.81)	C2102□-100-ND	21.55	C2102A.12.□□	C2102□-1000-ND	105.87	C2102A.21.□□
18	16/30	.112 (2.84)	.032 (0.81)	C2103□-100-ND	24.53	C2103A.12.□□	C2103□-1000-ND	130.26	C2103A.21.□□
16	26/30	.124 (3.15)	.032 (0.81)	C2104□-100-ND	33.80	C2104A.12.□□	C2104□-1000-ND	81.70	C2104A.21.□□
14	41/30	.141 (3.58)	.032 (0.81)	C2105□-100-ND	43.60	C2105A.12.□□	C2105□-1000-ND	289.78	C2105A.21.□□
10	105/30	.184 (4.67)	.032 (0.81)	C2107□-100-ND	94.23	C2107A.12.□□	C2107□-1000-ND	685.54	C2107A.21.□□
Solid — 600 Volt Rating									
22	1	.089 (2.26)	.032 (0.81)	C2117□-100-ND	17.78	C2117A.12.□□	C2117□-1000-ND	74.14	C2117A.21.□□
20	1	.096 (2.44)	.032 (0.81)	C2118□-100-ND	20.75	C2118A.12.□□	C2118□-1000-ND	98.44	C2118A.21.□□
18	1	.104 (2.64)	.032 (0.81)	C2119□-100-ND	25.49	C2119A.12.□□	C2119□-1000-ND	138.09	C2119A.21.□□

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **B**=Black; **W**=White; **R**=Red; **G**=Green; **A**=Orange; **Y**=Yellow; **L**=Blue; **N**=Brown; **S**=Slate Gray; **V**=Violet
** For □□ in General Cable Part No. choose number which represents color of your choice: **01**=Black; **02**=White; **03**=Red; **04**=Orange; **05**=Yellow; **06**=Green; **07**=Blue; **08**=Brown; **10**=Slate Gray; **19**=Violet
Note: Wire is ordered per EIA-359-A color specification which allows for some variation in shade.

General Cable CAROL® BRAND

Multi-Conductor Cable

LL46351 E26174

COLOR CODE CHART 1					
No.	Color	No.	Color	No.	Color
1	Black	11	Pink	21	White/Brown
2	White	12	Tan	22	White/Orange
3	Red	13	Red/Green	23	White/Gray
4	Green	14	Red/Yellow	24	White/Violet
5	Brown	15	Red/Black	25	Wht/Blk/Red
6	Blue	16	White/Black	26	Wht/Blk/Grn
7	Orange	17	White/Red	27	Wht/Blk/Yel
8	Yellow	18	White/Green	28	Wht/Blk/Blu
9	Violet	19	White/Yellow	29	Wht/Blk/Brn
10	Gray	20	White/Blue	30	Wht/Blk/Org

COLOR CODE CHART 2					
No.	Color	No.	Color	No.	Color
1	Black	11	Blue/Black	21	Orange/Green
2	White	12	Black/White	22	Blk/Wht/Red
3	Red	13	Red/White	23	Wht/Blk/Red
4	Green	14	Green/White	24	Red/Blk/Wht
5	Orange	15	Blue/White	25	Grn/Blk/Wht
6	Blue	16	Black/Red	26	Org/Blk/Wht
7	White/Black	17	White/Red	27	Blu/Blk/Wht
8	Red/Black	18	Orange/Red	28	Blk/Red/Grn
9	Green/Black	19	Blue/Red	29	Wht/Red/Grn
10	Orange/Black	20	Red/Green	30	Red/Blk/Grn

Notes:

1. UL-2092 (UL: 60°C, 300V)
2. UL-2093 (UL: 60°C, 300V)
3. UL-2106 (UL: 60°C, 600V)
4. NEC Article 725 Type CL2 (UL: 75°C)
5. UL Style 2464 (UL: 80°C, 300V)
6. NEC Article 800 Type CM (UL: 75°C)
7. CSA PCC (60°C)
8. Passes UL 70,000 BTU Vertical Tray Flame Test
9. Passes CSA FT1 Flame Test
10. OSHA acceptable
11. NEC Article 725 (UL: 60°C)
12. NEC Article 725 Type CL3 (UL: 75°C)
13. NEC Article 800 Type CM (UL: 75°C)
14. CM-CSA PCC FT4, non UL2464
15. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
16. NEC Type CL3P only
17. UL2587 (600V), CSA CMG Flame Test
18. NEC 760, UL Type FPL (300V) UL 2,500 BTU

A. Capacitance between conductors

B. Cap. between 1 conductor and other conductors connected to shield

COLOR CODE CHART 3			
No.	Color	No.	Color
1	Black	3	Red
2	Natural	4	Green

COLOR CODE CHART 4			
No.	Color	No.	Color
1	Black	3	White
2	Red	4	Green

Non-Plenum

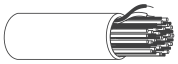

Plenum

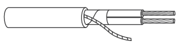

No. of Cond.	Color Code Chart	Conductor Size (AWG)	Conductor Strand	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A / B)		Nominal Ω/M @ 20°C Conductor / Shield	Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft. #	1,000 ft. #	General Cable Part No.
NON-PLENUM																
Unshielded																
2	Red/Blk	22	7/30	0.010 (0.25)	0.015 (0.38)	300V	0.130 (3.30)	25.5	—	—	9	W120-X-ND◆	28.53	60.88	114.97	C6348A
3	Blk/Red/Gn	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.176 (4.47)	25.5	—	—	5, 6, 7, 8, 9, 10	W121-X-ND◆	40.29	89.43	168.61	C4062A
4	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.189 (4.80)	25.5	—	—	5, 6, 7, 8, 9, 10	W122-X-ND◆	50.13	117.25	220.70	C4063A
4	1	22	Solid	0.006 (0.15)	0.015 (0.38)	300V	0.129 (3.28)	—	—	—	13	C4412-X-ND	33.44	—	125.05	C4412
5	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.203 (5.16)	25.5	—	—	5, 6, 7, 8, 9, 10	W123-X-ND◆	54.01	129.27	243.33	C4064A
6	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—	5, 6, 7, 8, 9, 10	W124-X-ND◆	62.92	152.18	295.12	C4066A
7	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—	5, 6, 7, 8, 9, 10	W125-X-ND◆	69.39	—	322.38	C4088A
8	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.234 (5.94)	25.5	—	—	5, 6, 7, 8, 9, 10	W126-X-ND◆	76.92	194.21	364.85	C4065A
9	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.249 (6.32)	25.5	—	—	5, 6, 7, 8, 9, 10	W127-X-ND◆	88.78	—	431.69	C4070A
10	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.268 (6.81)	25.5	—	—	5, 6, 7, 8, 9, 10	W128-X-ND◆	97.07	357.22	478.42	C4071A
12	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	25.5	—	—	5, 6, 7, 8, 9, 10	W129-X-ND◆	109.34	282.61	547.55	C4067A
15	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	25.5	—	—	5, 6, 7, 8, 9, 10	W130-X-ND◆	148.84	—	739.79	C4073A
25	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.368 (9.35)	25.5	—	—	5, 6, 7, 8, 9, 10	W132-X-ND◆	242.05	—	1183.98	C4076A
30	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.389 (9.88)	25.5	—	—	5, 6, 7, 8, 9, 10	W133-X-ND	292.23	1133.88	1448.59	C4077A
Overall Foil Shielded (100% Aluminum Mylar Foil) — With Drain Wire																
4	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.190 (4.83)	36.0	65.0	15.0 12.0	5, 6, 7, 8, 9, 10	W504-X-ND◆	59.27	141.26	273.94	C0762A
6	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.219 (5.56)	34.0	61.0	15.0 12.0	5, 6, 7, 8, 9, 10	W506-X-ND◆	72.79	181.80	341.54	C0763A
8	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.235 (5.97)	34.0	61.0	15.0 10.7	5, 6, 7, 8, 9, 10	W508-X-ND◆	91.08	229.50	444.66	C0764A
10	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.269 (6.83)	34.0	61.0	15.0 10.7	5, 6, 7, 8, 9, 10	W510-X-ND◆	108.68	280.70	543.86	C0765A
15	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.304 (7.72)	34.0	61.0	15.0 10.7	5, 6, 7, 8, 9, 10	W515-X-ND◆	157.40	599.85	786.50	C0766A
20	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.335 (8.51)	34.0	61.0	15.0 9.1	5, 6, 7, 8, 9, 10	W520-X-ND	209.36	—	1011.62	C0767A
25	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.369 (9.37)	34.0	61.0	15.0 9.1	5, 6, 7, 8, 9, 10	W525-X-ND◆	247.51	950.94	1212.79	C0768A
Overall Foil Shielded (100% Aluminum Mylar Foil) — With Drain Wire — RoHS Compliant																
4	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.175 (4.45)	33.0	59.4	26.0 18.0	5, 6, 7, 8, 9, 10	W404-X-ND	48.52	112.30	211.38	C0742A
6	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.201 (5.11)	33.0	59.4	26.0 16.0	5, 6, 7, 8, 9, 10	W406-X-ND	58.89	140.10	271.71	C0743A
8	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.215 (5.46)	33.0	59.4	26.0 16.0	5, 6, 7, 8, 9, 10	W408-X-ND	68.57	169.13	317.75	C0744A
10	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.245 (6.22)	30.0	59.4	26.0 14.0	5, 6, 7, 8, 9, 10	W410-X-ND	82.72	—	397.50	C0745A
15	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	30.0	59.4	26.0 14.0	5, 6, 7, 8, 9, 10	W415-X-ND	121.37	317.60	615.35	C0746A
20	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	30.0	59.4	26.0 14.0	5, 6, 7, 8, 9, 10	W420-X-ND	159.71	591.76	775.71	C0747A
25	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.333 (8.46)	30.0	59.4	26.0 12.0	5, 6, 7, 8, 9, 10	W425-X-ND	193.35	—	927.19	C0748A
30	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.351 (8.92)	30.0	59.4	26.0 12.0	5, 6, 7, 8, 9, 10	W430-100-ND	237.20	—	—	C0749A.12.10
Multi-Conductor Foil Shield — With Drain Wire — RoHS Compliant																
2	3	22	7/30	0.016 (0.41)	0.026 (0.66)	300V	0.167 (4.24)	26.0	47.0	—	1,2,3,4,5,6,7,8,9,10	C2514-1000-ND	—	—	190.34	C2514A.21.10
2	Blk/Red	18	16/30	0.013 (0.33)	0.037 (0.94)	300V	0.227 (5.77)	50.0	90.0	—	8, 15	C0454-1000-ND	—	—	312.51	C0454.41.10
2	3	18	16/30	0.018 (0.46)	0.030 (0.76)	300V	0.229 (5.82)	24.0	43.0	—	1	C2534-X-ND	64.40	156.62	303.74	C2534A
3	3	18	16/30	0.018 (0.46)	0.030 (0.76)	300V	0.247 (6.27)	22.0	40.0	—	2	C2535-X-ND	81.48	290.10	384.80	C2535A
4	4	18	19/30	0.010 (0.25)	0.032 (0.81)	300V	0.238 (6.05)	50.0	90.0	—	5, 6, 7, 8, 16	C2543-1000-ND	—	—	549.12	C2543A.41.10
9	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.228 (5.79)	30.0	59.4	26.0 16.0	5, 6, 7, 8, 9, 10	C0755-X-ND	73.68	—	346.58	C0755A
Multi-Conductor Unshielded — RoHS Compliant																
2	Blk/Red	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.156 (3.96)	23.0	—	—	5, 6, 8	C2461-1000-ND	—	—	110.29	C2461A.21.10
2	4	20	7/28	0.013 (0.33)	0.037 (0.94)	300V	0.206 (5.23)	28.0	—	—	8, 15	C0433-1000-ND	—	—	186.46	C0433A.21.10
2	Blk/Red	18	16/30	0.016 (0.41)	0.025 (0.64)	300V	0.210 (5.33)	28.0	—	—	5, 6, 7, 8, 14, 16	C2830-1000-ND	—	—	240.06	C2830A.41.10
2	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.268 (6.81)	28.0	—	—	5, 6, 8	C2405-1000-ND	—	—	389.09	C2405A.41.10
2	4	16	Solid	0.016 (0.41)	0.020 (0.51)	300V	0.206 (5.23)	17.5	—	—	18	C0473-1000-ND	—	—	287.28	C0473.41.03
2	2	14	19/.0147	0.032 (0.81)	0.032 (0.81)	300V	0.326 (8.51)	29.0	—	—	8, 12, 13, 17	C2409-1000-ND	—	—	527.25	C2409A.41.10
3	Blk/Red/Gn	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.163 (4.14)	23.0	—	—	5, 6, 8	C2462-1000-ND	—	—	157.64	C2462A.21.10
3	4	22	7/30	0.013 (0.33)	0.037 (0.94)	300V	0.198 (5.03)	25.5	—	—	8, 15	C0432-1000-ND	—	—	211.84	C0432A.41.10
3	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.236 (5.99)	28.0	—	—	5, 6, 8	C2831-1000-ND	—	—	312.96	C2831A.41.10
4	1	24	7/32	0.010 (0.25)	0.032 (0.81	300V	0.174 (4.42)	23.0	—	—	5, 6, 8	C2463-1000-ND	—	—	186.30	C2463A.21.10
4	4	18	16/30	0.015 (0.38)	0.037 (0.94)	300V	0.257 (6.53)	28.0	—	—	8, 15	C0444-1000-ND	—	—	430.74	C0444A.41.10
4	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.258 (6.55)	28.0	—	—	5, 6, 7, 8, 16	C2404-1000-ND	—	—	432.12	C2404A.41.10
4	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.306 (7.77)	28.0	—	—	5, 6, 8	C2425-1000-ND	—	—	668.18	C2425A.41.10
5	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.187 (4.75)	23.0	—	—	5, 6, 8	C2464-1000-ND	—	—	217.19	C2464A.21.10
5	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.280 (7.11)	28.0	—	—	5, 6, 8	C2420-1000-ND	—	—	533.99	C2420A.41.10
6	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.200 (5.08)	23.0	—	—	5, 6, 8	C2466-1000-ND	—	—	244.64	C2466A.21.10
7	1	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.275 (6.99)	26.0	—	—	5, 6, 8	C6356-1000-ND	—	—	519.06	C6356A.41.10
7	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.309 (7.85)	28.0	—	—	5, 6, 8	C2421-1000-ND	—	—	682.85	C2421A.41.10
7	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.364 (9.25)	28.0	—	—	5, 6, 8	C2426-1000-ND	—	—	1090.65	C2426A.41.10
9	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.227 (5.77)	23.0	—	—	5, 6, 8	C2470-1000-ND	—	—	336.96	C2470A.41.10
9	1	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.317 (8.05)	26.0	—	—	5, 6, 8	C6357-1000-ND	—	—	639.74	C6357A.41.10
9	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.358 (9.09)	28.0	—	—	5, 6, 8	C2422-1000-ND	—	—	875.78	C2422A.41.10
10	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.244 (6.20)	23.0	—	—	5, 6, 8	C2471-1000-ND	—	—	370.77	C2471A.41.10
12	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.401 (10.19)	28.0	—	—	5, 6, 7, 8, 16	C2412-1000-ND	—	—	1078.25	C2412A.41.10
12	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.479 (12.17)	28.0	—	—	5, 6, 8	C2427-1000-ND	—	—	1796.25	C2427A.41.10
15	2	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.392 (9.96)	26.0	—	—	5, 6, 8	C6358-1000-ND	—	—	1041.32	C6358A.41.10
PLENUM — RoHS Compliant																
Multi-Conductor Foil Shield																
4	1	22	7/30 TC	0.008 (0.20)	0.015 (0.38)	150V	0.146 (3.71)	44.0	79.2	—	11, 13	C3159-1000-ND	—	—	296.19	C3159.41.86
6	1	18	7/26 BC	0.008 (0.20)	0.015 (0.38)	150V	0.223 (5.66)	54.0	97.2	—	11, 13	C3065-1000-ND	—	—	661.79	C3065.41.86

◆ ***RoHS Compliant*** † Length tolerance is ±1% # Length tolerance is ±10% ***Note:*** Spools are not UL/CSA marked.

General Cable **CAROL® BRAND**

Audio and Communication

C1331 AND C1340

Conductor: • 22 ~ 20AWG fully annealed stranded tinned copper per ASTM B-33

Jacket: • Temperature Range: -20°C ~ 80°C

Applications: • Audio • Communications • EMI isolated circuits for instrumentation

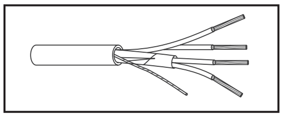

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	General Cable Part No.
UL Style 2095, 300 Volt NEC Type CL2, Gray								
4	20	7/28	0.41	5.84	C1331-X-ND	73.62	346.25	C1331.41.10
UL Style 2835, 30 Volt, Gray								
4	22	7/30	0.20	4.24	C1340-X-ND	51.38	228.02	C1340.21.10

Instrumentation Control Cable

Communications and Control Cable

Multi-Paired, Individually Shielded:

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 • Twisted Pairs

Insulation: • Premium grade color-coded PVC, FEP or foamed FEP • Color code: each pair black and red numbered at one inch intervals

Shield: • 100% Flexfoil™ aluminum/polyester foil, 25% overlap, foil facing out • Stranded tinned copper drain wire

Jacket: • PVC gray, PVC natural, FEP red or PVDF gray

Multi-Paired, Unshielded:

Conductor: • Fully annealed stranded tinned copper per ASTM B-33

Insulation: • Premium grade color-coded FEP

Jacket: • C8102, C8122: Flexguard® PVC, natural or as requested; C8116: FEP, red or as requested

Computer Cable

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 • Twisted Pairs

Insulation: • Premium grade color-coded polyethylene

Shield: • Individually shielded pairs • 100% Flexfoil aluminum/polyester, 25% overlap, foil facing in • Stranded tinned copper drain wire each pair

Jacket: • PVC, gray

Riser Sound and Security Cable

Conductor: • Stranded bare copper to ASTM B-3, B-8 and B-286

Insulation: • Premium grade color-coded S-R PVC (E2202S Series: Premium grade color-coded Flexguard)

Shield: • Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket: • Premium grade, Gray PVC • Sequential footage markings to facilitate installation • Includes ripcord

Shielded Communications and Control Cable
Riser Sound and Security Cable

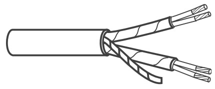

Shielded Computer Cable

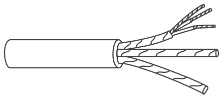

Notes:

1. Designed to Meet UL 910 Flame Test
2. CSA PCC (CSA: 60°C)
3. Passes UL 70,000 BTU Vertical Tray Flame Test
4. Passes CSA FT4 Flame Test
5. California State Fire Marshal
6. NEC Article 800 Type CM
7. UL Style 2835 (UL:60°C, 30V)
8. UL Style 2919 (UL: 80°C, 30V)
9. Passes CSA FT1 Flame Test
10. NEC Article 725 Type CL3R (UL: 75°C, 150V)
11. NEC Article 800 Type CMR (UL: 75°C, 300V)
12. NEC Article 725 Type CL3P (UL: 60°C, 150V)
13. NEC Article 800 Type CMP (UL: 60°C, 300V)
14. NEC Article 800 Type CMP (UL: 75°C, 300V)
15. NEC Article 800 Type CMP (UL: 150°C, 300V)
16. NEC Article 800 Type CMP (UL: 200°C, 300V)
17. Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

COLOR CODE CHART NO. 1

No.	Color	No.	Color
1	Black	4	Green
2	Red	5	Brown
3	White	6	Blue

COLOR CODE CHART NO. 2

No.	Color
1	Black, Red
2	White, Green

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1	Black, Red	4	Black, Blue
2	Black, White	5	Black, Yellow
3	Black, Green	6	Black, Brown

COLOR CODE CHART NO. 4

No.	Color	No.	Color
1	Black	3	Red
2	White	4	Green

COLOR CODE CHART NO. 5

No.	Color
1	Black and Red

COLOR CODE CHART NO. 6

No.	Color
1	White/Blue with Blue/White
2	White/Orange with Orange/White

No. of Pairs	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Capacitance pF/FT A†	B‡	Temp. Range (°C)	Notes	Digi-Key Part No.	Price Per Roll 100 ft.	500 ft.	1,000 ft.	General Cable Part No.
NON-PLENUM																
Communication and Control Cable; Computer Cable — Shielded																
2	2	22	7/30	0.008 (0.20)	0.020 (0.51)	300V	0.165 (4.19)	35.0	63.0	-20 ~ 105	2, 3, 4, 6, 7	C1352-X-ND◊	56.79	137.87	259.50	C1352
3	3	22	7/30	0.011 (0.28)	0.032 (0.81)	30V	0.292 (7.42)	24.4	43.9	-20 ~ 80	2, 3, 6, 8, 9	C6040-X-ND◊	95.39	242.05	468.95	C6040
Riser Sound and Security Cable — Unshielded																
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.122 (3.10)	—	—	-20 ~ 75	5, 10, 11	E1002S-1000-ND	—	—	85.96	E1002S.30.10
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.141 (3.58)	—	—	-20 ~ 75	5, 10, 11	E1004S-1000-ND	—	—	154.54	E1004S.30.10
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.164 (4.17)	—	—	-20 ~ 75	5, 10, 11	E1006S-1000-ND	—	—	213.81	E1006S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.156 (3.96)	—	—	-20 ~ 75	10, 11	E1032S-1000-ND	—	—	153.88	E1032S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.187 (4.75)	—	—	-20 ~ 75	10, 11	E1034S-1000-ND	—	—	275.01	E1034S
2	1	16	19/.0117	0.009 (0.23)	0.015 (0.38)	300V	0.178 (4.52)	—	—	-20 ~ 75	5, 10, 11	E1042S-500-ND	—	119.17	—	E1042S.18.10
4	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.209 (5.31)	—	—	-20 ~ 75	10, 11	E1044S-1000-ND	—	—	426.62	E1044S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.223 (5.66)	—	—	-20 ~ 75	6, 10, 11	E1052S-1000-ND	—	—	326.35	E1052S
2	1	12	19/.0185	0.009 (0.23)	0.015 (0.38)	300V	0.260 (6.60)	—	—	-20 ~ 75	6, 10, 11	E1062S-1000-ND	—	—	502.05	E1062S
Riser Sound and Security Cable — Shielded																
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.127 (3.23)	—	—	-20 ~ 75	10, 11	E2002S-1000-ND	—	—	132.89	E2002S
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.146 (3.71)	—	—	-20 ~ 75	10, 11	E2004S-1000-ND	—	—	201.50	E2004S
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.173 (4.39)	—	—	-20 ~ 75	5, 10, 11	E2006S-1000-ND	—	—	267.41	E2006S.30.10
2	1	20	7/28	0.008 (0.20)	0.015 (0.38)	300V	0.139 (3.53)	—	—	-20 ~ 75	5, 10, 11	E2022S-1000-ND	—	—	168.65	E2022S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.164 (4.17)	—	—	-20 ~ 75	10, 11	E2032S-1000-ND	—	—	193.68	E2032S
3	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.173 (4.39)	—	—	-20 ~ 75	10, 11	E2033S-1000-ND	—	—	292.66	E2033S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.191 (4.85)	—	—	-20 ~ 75	10, 11	E2034S-1000-ND	—	—	372.62	E2034S
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.189 (4.80)	—	—	-20 ~ 75	10, 11	E2042S-1000-ND	—	—	325.55	E2042S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.245 (6.22)	—	—	-20 ~ 75	10, 11	E2052S-1000-ND	—	—	441.33	E2052S
PLENUM																
NEW! Communication and Control Cable — Unshielded NEW!																
2	4	18	19/30 TC	0.007 (0.18)	0.014 (0.36)	300V	0.178 (4.52)	21.5	—	-20 ~ 75	14, 17	C8102-1000-ND	—	—	766.60	C8102.41.86
1	5	18	19/30	0.007 (0.18)	0.009 (0.23)	300V	0.142 (3.61)	20.0	—	-40 ~ 200	16, 17	C8116-1000-ND	—	—	585.18	C8116.41.03
1	5	18	19/30	0.007 (0.18)	0.015 (0.38)	300V	0.154 (3.91)	20.0	—	-20 ~ 75	14, 17	C8122-1000-ND	—	—	414.51	C8122.41.86
NEW! Communication and Control Cable — Shielded NEW!																
2	2	22	7/30	0.006 (0.15)	0.014 (0.36)	300V	0.186 (4.72)	35.0	65.0	-40 ~ 200	16, 17	C8112-1000-ND	—	—	750.45	C8112.41.03
2	6	24	7/32	0.019 (0.48)	0.018 (0.46)	300V	0.261 (6.63)	12.5	22.0	-40 ~ 150	15, 17	C8128-1000-ND	—	—	778.11	C8128.41.10
6	3	22	7/30	0.010 (0.25)	0.015 (0.38)	300V	0.309 (7.85)	30.0	65.0	-40 ~ 200	16, 17	C8132-1000-ND	—	—	1858.86	C8132.41.03
6	3	22	7/30	0.010 (0.25)	0.018 (0.45)	300V	0.314 (7.98)	35.0	76.0	-20 ~ 75	14, 17	C8133-1000-ND	—	—	1450.32	C8133.41.86
2	6	24	7/32	0.019 (0.48)	0.015 (0.38)	300V	0.255 (7.48)	35.0	76.0	-20 ~ 75	14, 17	C8134-1000-ND	—	—	545.90	C8134.41.86
Riser Sound and Security Cable — Shielded																
3	1	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.168 (4.27)	—	—	-20 ~ 75	1, 5, 12, 13	E2203S-1000-ND	—	—	354.22	E2203S.30.86

† A. Capacitance between conductors ‡ B. Capacitance between 1 conductor & other conductors connected to shield ◊ X = No. of Ft. per Roll

General Cable CAROL® BRAND

Multiconductor Cable

Braid Shield

Construction: • Insulation: Premium grade color coded polyethylene • Shield: 80% tinned copper braid • Jacket: PVC, Gray

Temperature Range: -20°C ~ 80°C

Suggested Voltage Rating: 300V

Features: • Low capacitance • Lightweight • Excellent shielding for noise reduction

Compliances: • UL 80°C, 300V • Designed to meet UL VW-1 Vertical Wire Flame Test

Rubber Braid Shield

Construction: • Insulation: Premium grade color coded rubber • Shield: 80% Tinned copper braid • Jacket: Rubber, Black

Temperature Range: -20°C ~ 60°C

Suggested Voltage Rating: 300V

Features: • Impact and abrasion resistant • Stranded conductors for superior flexibility

Carolprene® Braid Shield

Construction: Insulation: Premium grade color coded rubber • Shield: 80% tinned copper braid • Jacket: Carolprene, Black

Temperature Range: -20°C ~ 60°C

Suggested Voltage Rating: 300V

Features: • Impact and abrasion resistant • Stranded conductors for superior flexibility

Compliances: Designed to meet UL VW-1 Vertical Wire Flame Test

Carolprene® Unshielded, Water Resistant

Construction: Jacket: Carolprene, Black

Temperature Range: -40°C ~ 90°C

Suggested Voltage Rating: 300V

Features: • Resistance to oil and moisture • High flexibility • Water resistant

Compliances: UL, CSA, MSHA

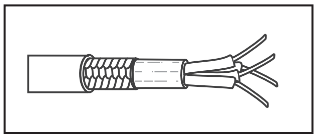

COLOR CODE CHART 1	
No. of Conductors	**Color**
4	Green
6	Blue

COLOR CODE CHART 2	
No. of Conductors	**Color**
3	Red
4	Green
6	Brown
7	Yellow

COLOR CODE CHART 3	
No. of Conductors	**Color**
3	Black, White, Green

No. of Conductors	Color Code Chart	Conductor Size (AWG)	Conductor Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Nominal O.D. Inch (mm)	Digi-Key Part No.	Price Per Roll 1,000 ft.	General Cable Part No.
Braid Shield									
6	1	20	26/34	0.015 (0.38)	0.029 (0.74)	0.294 (7.47)	C1646-1000-ND	774.09	C1646
Rubber, Braid Shield									
3	2	20	26/34	0.020 (0.51)	0.035 (0.89)	0.285 (7.24)	C1304-1000-ND	678.26	C1304
4	2	20	26/34	0.020 (0.51)	0.035 (0.89)	0.300 (7.62)	C1305-1000-ND	806.25	C1305
6	2	20	26/34	0.020 (0.51)	0.035 (0.89)	0.340 (8.64)	C1310-1000-ND	1046.88	C1310
7	2	20	26/34	0.020 (0.51)	0.035 (0.89)	0.355 (9.02)	C1312-1000-ND	1148.66	C1312
Carolprene, Braid Shield									
3	2	18	41/34	0.020 (0.51)	0.035 (0.89)	0.305 (7.75)	C1203-1000-ND	743.94	C1203
4	2	18	41/34	0.020 (0.51)	0.035 (0.89)	0.330 (8.38)	C1204-1000-ND	1029.29	C1204
6	2	18	41/34	0.020 (0.51)	0.035 (0.89)	0.370 (9.39)	C1206-1000-ND	1190.90	C1206
4	2	16	65/34	0.025 (0.64)	0.035 (0.89)	0.385 (9.78)	C1604-1000-ND	1225.37	C1604
6	2	16	65/34	0.025 (0.64)	0.040 (1.02)	0.445 (11.3)	C1606-1000-ND	1614.85	C1606
Carolprene, Unshielded, Water Resistant									
3	3	16	26/30	0.030 (0.76)	0.039 (1.00)	0.330 (8.38)	C01342-250-ND	98.72	01342.15.01

AlphaWire

Cables you trust. Service you deserve.

Multiconductor Cable

Multiconductor Unshielded

Description:

22 AWG (0.35mm^2), 7/30 (7 x 0.25mm), Insulation thickness: 0.010" (0.25mm)

Characteristics:

• Temp. Range: -20°C ~ 80°C (AWM), 75°C (CL2) • Voltage Rating: 150 Volt (AWM, CL2) • Conductor: Stranded tinned copper • Insulation: Color coded PVC • Tape: Clear polyester wrap • Jacket: Gray PVC

Specifications:

• Flammability: Passes UL vertical tray flame test

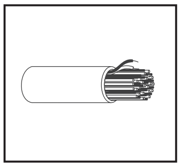

Color Code Chart					
No. of Cond.	**Color**	**No. of Cond.**	**Color**	**No. of Cond.**	**Color**
1	Black	6	Blue	11	Pink
2	Red	7	Brown	12	Tan
3	White	8	Yellow	13	Red/Green
4	Green	9	Violet	14	Red/Yellow
5	Orange	10	Gray	15	Red/Black

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
2	.032 (.81)	.16 (4.06)	A120-X-ND	42.53	136.80	191.24	1172C-X
3	.032 (.81)	.17 (4.32)	A121-X-ND	55.58	183.60	256.03	1173C-X
4	.032 (.81)	.19 (4.83)	A122-X-ND	61.54	208.58	321.39	1174C-X
5	.032 (.81)	.20 (5.08)	A123-X-ND	74.48	224.58	405.08	1175C-X
6	.032 (.81)	.21 (5.33)	A124-X-ND	81.45	260.97	414.88	1176C-X
7	.032 (.81)	.21 (5.33)	A125-X-ND	88.76	276.45	472.24	1177C-X
8	.032 (.81)	.22 (5.59)	A126-X-ND	105.98	317.49	535.68	1178C-X
9	.032 (.81)	.25 (6.35)	A127-X-ND	105.98	341.05	551.44	1179C-X
10	.032 (.81)	.26 (6.60)	A128-X-ND	123.75	387.70	646.56	1180C-X
12	.032 (.81)	.28 (7.11)	A129-X-ND	180.56	481.28	911.20	1181C-X
15	.032 (.81)	.30 (7.62)	A130-X-ND	210.24	696.80	1093.28	1181/15C-X

Individually Foil Shielded Multipair

Description:

22 AWG (0.35mm^2), 7/30 (7 x 0.25mm), Insulation thickness 0.010" (0.25mm)

Characteristics:

• Temperature Range: -20°C ~ 60°C (AWM, CL2) • Voltage Rating: 300 Volts (150 Volts - CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded polypropylene (PP) • Shield: (Individual pairs) Aluminum/polyester tape, foil facing inward • Drain Wire: 22 AWG stranded tinned copper • Jacket: PVC, gray

Specifications:

• Flammability: Passes UL vertical tray flame test

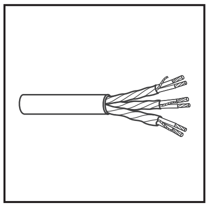

Color Code Chart					
No. of Cond. Pair	**Color**	**No. of Cond. Pair**	**Color**	**No. of Cond. Pair**	**Color**
1	Black/Red	10	Red/Blue	19	White/Blue
2	Black/White	11	Red/Yellow	20	White/Brown
3	Black/Green	12	Red/Brown	21	White/Orange
4	Black/Blue	13	Red/Orange	22	White/Yellow
5	Black/Brown	14	Green/Blue	23	Blue/Brown
6	Black/Yellow	15	Green/White	24	Blue/Orange
7	Black/Orange	16	Green/Brown	25	Blue/Yellow
8	Red/Green	17	Green/Orange	26	Brown/Orange
9	Red/White	18	Green/Yellow	27	Brown/Yellow

No. of Cond. Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
3	.045 (1.14)	.31 (7.87)	A132-X-ND◆	127.13	428.74	645.68	6010C-X
6	.045 (1.14)	.39 (9.91)	A133-X-ND◆	203.97	678.32	1290.48	6012C-X
9	.045 (1.14)	.46 (11.68)	A134-X-ND◆	444.56	1430.66	—	6014C-X
11	.045 (1.14)	.48 (12.19)	A135-100-ND◆	506.80	—	—	6016C-X
12	.045 (1.14)	.48 (12.19)	A136-X-ND	—	2034.97	—	6017C-X
15	.060 (1.52)	.56 (14.22)	A137-X-ND	696.32	2229.92	—	6018C-X
17	.060 (1.52)	.61 (15.49)	A138-X-ND	943.04	3704.61	—	6019C-X
19	.060 (1.52)	.63 (16.00)	A139-X-ND	929.28	2969.40	—	6020C-X

◆ ***RoHS Compliant***

(Continued)

Multipair Individually Shielded

Twisted Pair

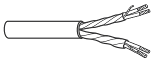

Description: • CL2, CM rated, 75°C, 300V • 22 AWG (0.35 mm^2), 7/30 (7 x 0.25mm), Insulation thickness: 0.010" (0.25mm)

Characteristics: • Temperature Range: -20°C ~ 75°C • Voltage Rating: 300 Volt • Conductor: Stranded tinned copper • Insulation: Polyproylene (PP) • Shield: Aluminum/polyester tape • Drain Wire: Stranded tinned copper • Gray PVC jacket

Color Code Chart	
No. of Cond. Pair	Color
1	Red/Black
2	Green/White

No. of Cond. Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
2	.020 (.51)	.17 (4.32)	A131-X-ND	81.45	268.38	400.43	2466C-X

Multiconductor Foil / Braid Shielded

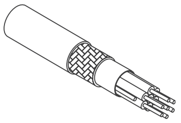

Description: 28 AWG (0.089mm^2), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm)
Characteristics: • Operating Temperature Range: -20°C ~ 80°C (AWM), +75°C (CL2) • Voltage Rating: 300 volts (AWM), 150 volts (CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded semi-rigid PVC • Shield: Aluminum/polyester/aluminum plus overall braid of tinned copper • Drain Wire: 28 AWG 7/36 tinned copper • Jacket: PVC, chrome gray
Specifications: • UL Type CL2, AWM 2464 • CSA, CMG, PCC, FT4 • Flammability: Passes UL vertical tray flame test

Color Code Chart					
No. of Cond.	Color	No. of Cond.	Color	No. of Cond.	Color
1	Black	10	Gray	19	White/Yellow
2	Red	11	Pink	20	White/Blue
3	White	12	Tan	21	White/Brown
4	Green	13	Red/Green	22	White/Orange
5	Orange	14	Red/Yellow	23	White/Gray
6	Blue	15	Red/Black	24	White/Violet
7	Brown	16	White/Black	25	White/Black/Red
8	Yellow	17	White/Red		
9	Violet	18	White/Green		

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
6	.035 (.89)	.19 (5.0)	A3466C-X-ND	264.67	1466.56	3466C-X
7	.035 (.89)	.19 (5.0)	A3467C-X-ND◆	290.23	1408.12	3467C-X
15	.035 (.89)	.26 (6.6)	A3470/15C-X-ND	441.68	2546.74	3470/15C-X
25	.035 (.89)	.30 (7.7)	A3470/25C-X-ND◆	832.64	2369.64	3470/25C-X

◆ *RoHS Compliant*

Multiconductor Braid Shielded

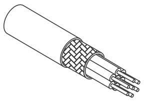

Description: 28 AWG (0.09mm^2), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm) PVC - Type B
Characteristics: • Operating Temperature Range: -55°C ~ 105°C • Voltage Rating: 600 Volt • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray
Specifications: • MIL-W-16878D Type B

Color Code Chart					
No. of Cond.	Color	No. of Cond.	Color	No. of Cond.	Color
1	Black	6	Blue	11	Blue/Black
2	White	7	White/Black	12	Black/White
3	Red	8	Red/Black	13	Red/White
4	Green	9	Green/Black	14	Green/White
5	Orange	10	Orange/Black	15	Blue/White

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
2	.012 (.30)	.12 (3.1)	A3302-X-ND◆	364.99	1780.87	3302-X
3	.012 (.30)	.13 (3.3)	A3303-X-ND	430.64	2378.46	3303-X
4	.012 (.30)	.14 (3.5)	A3304-X-ND◆	525.20	2900.94	3304-X
6	.015 (.38)	.17 (4.3)	A3306-X-ND	716.00	3958.01	3306-X
8	.015 (.38)	.17 (4.4)	A3308-X-ND◆	814.64	4506.18	3308-X
15	.020 (.50)	.23 (5.8)	A3315-X-ND	—	8090.67	3315-X

◆ *RoHS Compliant*

Multiconductor Braid Shielded

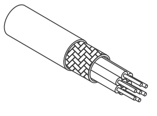

Description: Insulation thickness: 0.010" (0.25mm) - PVC, 0.003" (0.08mm) Nylon-Type B/N
Characteristics: • Operating Temperature Range: -55°C ~ 105°C • Voltage Rating: 600 volts • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray
Specifications: • MIL-W-16878D Type B/N • MIL-DTL-16878/17 Nylon (Conductor only)

Color Code Chart	
No. of Cond.	Color
1	White
2	Black
3	Red
4	Green

No. of Cond.	Jacket Conductor AWG	Strand	Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
3	24	19/36	.016 (0.41)	.16 (4.0)	A3212-X-ND◆	246.62	1252.64	3212-X
4	24	19/36	.017 (0.43)	.18 (4.6)	A3213-X-ND	294.60	1449.68	3213-X
2	22	19/34	.016 (0.41)	.18 (4.6)	A3221-X-ND◆	188.89	788.80	3221-X
3	22	19/34	.017 (0.43)	.18 (4.6)	A3222-X-ND◆	195.42	984.48	3222-X
4	22	19/34	.019 (0.48)	.20 (5.1)	A3223-X-ND◆	225.44	1137.36	3223-X
2	20	19/32	.019 (0.48)	.19 (4.8)	A3231-X-ND◆	215.33	936.64	3231-X
3	20	19/32	.019 (0.48)	.21 (5.3)	A3232-X-ND◆	227.05	1137.36	3232-X
4	20	19/32	.021 (0.53)	.23 (5.9)	A3233-X-ND◆	278.35	1395.44	3233-X

◆ *RoHS Compliant*

Multiconductor Cable — XTRA-Guard® 1

Operating Temperature: -20°C ~ 80°C - AWM; -20°C ~ 105°C - CM, CMG **Voltage Rating:** 300 Volt **Jacket Color:** Gray (Other colors available per request)
Description: • Conductor: Stranded tinned copper • Insulation: Color-coded premium PVC • **SUPRASHIELD:** Aluminum/Polyester/Aluminum Foil with stranded tinned copper drain wire equal in size to insulated conductors of cable plus 70% overall braid of tinned copper • Nylon rip cord for ease of jacket stripping • Jacket: Premium PVC • Insulation Thickness: 22AWG: 0.010: (0.25mm); 20AWG, 18AWG and 16 AWG: 0.016" (0.41mm)
Specifications: • UL Type CM, AWM Style 2464 • CSA, CMG, PCC, FT4 • Passes UL VW-1 Flame Test • Passes CSA FT4 Flame Test

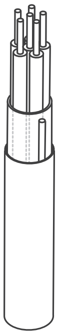

Color Code Chart A											
Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe
1	Black	—	—	21	White	Brown	—	41	White	Green	Red
2	Red	—	—	22	White	Orange	—	42	White	Green	Green
3	White	—	—	23	White	Gray	—	43	White	Green	Blue
4	Green	—	—	24	White	Violet	—	44	White	Green	Brown
5	Orange	—	—	25	White	Black	Red	45	White	Green	Violet
6	Blue	—	—	26	White	Black	Green	46	White	Blue	Black
7	Brown	—	—	27	White	Black	Yellow	47	White	Blue	Red
8	Yellow	—	—	28	White	Black	Blue	48	White	Blue	Green
9	Violet	—	—	29	White	Black	Brown	49	White	Blue	Blue
10	Gray	—	—	30	White	Black	Orange	50	White	Blue	Brown
11	Pink	—	—	31	White	Black	Gray	51	White	Blue	Violet
12	Tan	—	—	32	White	Black	Violet	52	White	Brown	Black
13	Red	Green	—	33	White	Black	Black	53	White	Brown	Red
14	Red	Yellow	—	34	White	Red	Black	54	White	Brown	Green
15	Red	Black	—	35	White	Red	Red	55	White	Brown	Blue
16	White	Black	—	36	White	Red	Green	56	White	Brown	Brown
17	White	Red	—	37	White	Red	Blue	57	White	Brown	Violet
18	White	Green	—	38	White	Red	Brown	58	White	Violet	Red
19	White	Yellow	—	39	White	Red	Violet	59	White	Violet	Green
20	White	Blue	—	40	White	Green	Black	60	White	Violet	Blue

Color Code Chart B														
Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black	—	—	—	25	White	Black	Blue	—	49	White	Yellow	Gray	—
2	Brown	—	—	—	26	White	Black	Violet	—	50	White	Green	Blue	—
3	Red	—	—	—	27	White	Black	Gray	—	51	White	Green	Violet	—
4	Orange	—	—	—	28	White	Brown	Red	—	52	White	Green	Gray	—
5	Yellow	—	—	—	29	White	Brown	Orange	—	53	White	Blue	Violet	—
6	Green	—	—	—	30	White	Brown	Yellow	—	54	White	Blue	Gray	—
7	Blue	—	—	—	31	White	Brown	Green	—	55	White	Violet	Gray	—
8	Violet	—	—	—	32	White	Brown	Blue	—	56	White	Black	Brown	Red
9	Gray	—	—	—	33	White	Brown	Violet	—	57	White	Black	Brown	Orange
10	White	—	—	—	34	White	Brown	Gray	—	58	White	Black	Brown	Yellow
11	White	Black	—	—	35	White	Red	Orange	—	59	White	Black	Brown	Green
12	White	Brown	—	—	36	White	Red	Yellow	—	60	White	Black	Brown	Blue
13	White	Red	—	—	37	White	Red	Green	—	61	White	Black	Brown	Violet
14	White	Orange	—	—	38	White	Red	Blue	—	62	White	Black	Brown	Gray
15	White	Yellow	—	—	39	White	Red	Violet	—	63	White	Black	Red	Yellow
16	White	Green	—	—	40	White	Red	Gray	—	64	White	Black	Red	Green
17	White	Blue	—	—	41	White	Orange	Yellow	—	65	White	Black	Red	Blue
18	White	Violet	—	—	42	White	Orange	Green	—	66	White	Black	Red	Violet
19	White	Gray	—	—	43	White	Orange	Blue	—	67	White	Black	Red	Gray
20	White	Black	Brown	—	44	White	Orange	Violet	—	68	White	Black	Orange	Yellow
21	White	Black	Red	—	45	White	Orange	Gray	—	69	White	Black	Orange	Green
22	White	Black	Orange	—	46	White	Yellow	Green	—	70	White	Black	Orange	Blue
23	White	Black	Yellow	—	47	White	Yellow	Blue	—					
24	White	Black	Green	—	48	White	Yellow	Violet	—					

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.) 1 Roll	5 Rolls	Alpha Part No.
Multiconductor, Unshielded							
16 AWG (1.23mm2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.26 (6.5)	A5072C-100-ND◆	351.12	295.68	5072C SL005
	2	.032 (.81)	.26 (6.5)	A5072/1C-100-ND◆*	351.12	295.68	5072/1C SL005
	3	.032 (.81)	.29 (7.4)	A5073C-100-ND	466.17	392.56	5073C SL005
	3	.032 (.81)	.29 (7.4)	A5073/1C-100-ND◆*	466.17	392.56	5073/1C SL005
	6	.032 (.81)	.37 (9.3)	A5076C-100-ND◆	700.64	656.85	5076C SL005
	8	.032 (.81)	.41 (10.4)	A5078C-100-ND◆	941.84	882.98	5078C SL005
	10	.032 (.81)	.44 (11.3)	A5080C-100-ND	1296.64	1215.60	5080C SL005

◆ *RoHS Compliant* * Conductors color coded per international standards: Brown, Blue, Green/Yellow

(Continued)

Multiconductor Cable — XTRA-Guard® 1 *(Cont.)*

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.)		Alpha Part No.
					1 Roll	5 Rolls	
A	20	.053 (1.35)	.63 (15.9)	A5080/20C-100-ND	2022.93	1878.44	5080/20C SL005
	25	.053 (1.35)	.68 (17.3)	A5080/25C-100-ND	2533.58	2352.61	5080/25C SL005
	40	.083 (2.11)	.88 (22.5)	A5080/40C-100-ND	4402.72	4088.24	5080/40C SL005
	50	.083 (2.11)	.96 (24.5)	A5080/50C-100-ND	5453.49	5063.96	5080/50C SL005
18 AWG (0.81mm2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.23 (5.8)	A5062C-100-ND◆	275.98	232.40	5062C SL005
	2	.032 (.81)	.23 (5.8)	A5062/1C-100-ND*	275.98	232.40	5062/1C SL005
	3	.032 (.81)	.24 (6.1)	A5063C-100-ND◆	351.12	295.68	5063C SL005
	3	.032 (.81)	.24 (6.1)	A5063/1C-100-ND*	351.12	295.68	5063/1C SL005
	4	.032 (.81)	.26 (6.6)	A5064C-100-ND◆	416.29	350.56	5064C SL005
	6	.032 (.81)	.31 (7.9)	A5066C-100-ND◆	546.40	512.25	5066C SL005
	8	.032 (.81)	33 (8.4)	A5068C-100-ND◆	655.44	614.48	5068C SL005
20 AWG (0.56mm2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.21 (5.3)	A5052C-100-ND◆	211.95	178.48	5052C SL005
	3	.032 (.81)	.23 (5.9)	A5053C-100-ND◆	262.01	220.64	5053C SL005
	4	.032(.81)	.25 (6.5)	A5054C-100-ND◆	311.51	262.32	5054C SL005
	6	.032 (.81)	.29(7.4)	A5056C-100-ND◆	420.28	353.92	5056C SL005
	8	.032(.81)	.32(8.2)	A5058C-100-ND◆	415.36	389.40	5058C SL005
	10	.032 (.81)	.35 (8.8)	A5060C-100-ND◆	480.96	450.90	5060C SL005
	30	.032 (.81)	.53 (13.5)	A5060/30C-100-ND	1453.27	1349.47	5060/30C SL005
	40	.053 (1.35)	.64 (16.3)	A5060/40C-100-ND	2180.99	2025.21	5060/40C SL005
	50	.053 (1.35)	.70 (17.8)	A5060/50C-100-ND	2684.50	2492.75	5060/50C SL005
22 AWG (0.35mm2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.17 (4.3)	A5002C-100-ND◆	219.26	194.90	5002C SL005
	3	.032 (.81)	.19 (4.8)	A5003C-100-ND◆	221.26	186.32	5003C SL005
	4	.032 (.81)	.20 (5.2)	A5004C-100-ND◆	275.60	232.08	5004C SL005
	6	.032 (.81)	.23 (5.8)	A5006C-100-ND◆	315.50	265.68	5006C SL005
	8	.032 (.81)	.25 (6.4)	A5008C-100-ND◆	411.35	346.40	5008C SL005
	25	.032 (.81)	.38 (9.6)	A5010/25C-100-ND	1046.72	981.30	5010/25C SL005
	30	.032 (.81)	.41 (10.3)	A5010/30C-100-ND	1293.52	—	5010/30C SL005
	40	.032 (.81)	.46 (11.6)	A5010/40C-100-ND	1623.37	1507.42	5010/40C SL005
	50	.032 (.81)	.50 (12.7)	A5010/50C-100-ND	2018.66	1874.47	5010/50C SL005
	60	.032 (.81)	.55 (13.7)	A5010/60C-100-ND	2431.80	2258.10	5010/60C SL005
Multiconductor, SUPRASHIELD							
16 AWG (1.23mm2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.28 (7.2)	A5172C-100-ND◆	587.92	551.18	5172C SL005
	2	.032 (.81)	.28 (7.2)	A5172/1C-100-ND*	587.92	551.18	5172/1C SL005
	3	.032 (.81)	.32 (8.0)	A5173C-100-ND◆	728.96	683.40	5173C SL005
	3	.032 (.81)	.32 (8.0)	A5173/1C-100-ND*	728.96	683.40	5173/1C SL005
	4	.032 (.81)	.34 (8.8)	A5174C-100-ND◆	805.52	755.18	5174C SL005
	6	.032 (.81)	.39 (10.0)	A5176C-100-ND◆	1113.84	1044.23	5176C SL005
	8	.032 (.81)	.43 (11.0)	A5178C-100-ND	1464.80	1373.25	5178C SL005
18 AWG (0.81mm2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.25 (6.5)	A5162C-100-ND◆	492.72	461.93	5162C SL005
	3	.032 (.81)	.28 (7.2)	A5163C-100-ND	581.68	545.33	5163C SL005
	3	.032 (.81)	.28 (7.2)	A5163/1C-100-ND*	581.68	545.33	5163/1C SL005
	4	.032 (.81)	.31 (7.8)	A5164C-100-ND◆	645.36	605.03	5164C SL005
	6	.032 (.81)	.35 (8.9)	A5166C-100-ND	870.96	816.53	5166C SL005
	8	.032 (.81)	.38 (9.7)	A5168C-100-ND	1062.16	995.78	5168C SL005
20 AWG (0.56mm2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.23 (5.9)	A5152C-100-ND◆	451.82	380.48	5152C SL005
	3	.032 (.81)	.26 (6.6)	A5153C-100-ND◆	436.08	408.83	5153C SL005
	4	.032 (.81)	.28 (7.1)	A5154C-100-ND◆	475.84	446.10	5154C SL005
	6	.032(.81)	.32 (8.0)	A5156C-100-ND◆	660.96	619.65	5156C SL005
	8	.032 (.81)	.35 (8.8)	A5158C-100-ND◆	724.72	679.43	5158C SL005
	10	.032 (.81)	.37 (9.5)	A5160C-100-ND◆	902.48	846.08	5160C SL005
	20	.032 (.81)	.48 (12.1)	A5160/20C-100-ND	1432.34	1330.03	5160/20C SL005
	30	.032 (.81)	.56 (14.2)	A5160/30C-100-ND	2081.31	1932.65	5160/30C SL005
22 AWG (0.35mm2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.20 (5.0)	A5102C-100-ND◆	415.34	349.76	5102C SL005
	3	.032 (.81)	.21 (5.4)	A5103C-100-ND◆	436.81	367.84	5103C SL005
	4	.032 (.81)	.22 (5.6)	A5104C-100-ND◆	463.60	390.40	5104C SL005
	6	.032 (.81)	.25 (6.4)	A5106C-100-ND◆	519.92	487.43	5106C SL005
	8	.032 (.81)	.27 (6.9)	A5108C-100-ND◆	587.92	551.18	5108C SL005
	10	.032 (.81)	.30 (7.6)	A5110C-100-ND	688.40	645.38	5110C SL005
	15	.032 (.81)	.33 (8.4)	A5110/15C-100-ND◆	997.68	935.33	5110/15C SL005
	20	.032 (.81)	.36 (9.2)	A5110/20C-100-ND◆	1220.72	1144.43	5110/20C SL005
	25	.032 (.81)	.39 (9.8)	A5110/25C-100-ND◆	1540.00	1443.75	5110/25C SL005
	40	.032 (.81)	.47 (11.8)	A5110/40C-100-ND	2184.00	2028.00	5110/40C SL005
	70	.053 (1.35)	.63 (16.0)	A5110/70C-100-ND◆	3698.45	3434.28	5110/70C SL005

◆ ***RoHS Compliant*** * Conductors color coded per international standards: Brown, Blue, Green/Yellow

Teflon® Tubing

Application: • Wire Harness • High Temperature Component Covering; **Color**: • Transparent **Physical Properties**: • Tensile Strength 2500 psi (176Kg/cm2) • Ultimate Elongation 200% • Flammability: Self-Extinguishing **Chemical Properties**: • Corrosive Effect: Non-Corrosive • Fungus Resistance: No Growth • Water Absorption 0.01% **Electrical Properties**: • Dielectric Strength; 800V/mil **Specifications**: ASTN D 3295, UL224

Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.

Fits Bare Conductor Size (AWG)	Nominal Inside Diameter Inch (mm)	Wall Thickness Inch (mm)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
30	.012 (.30)	.009 (.22)	ATFT20030-100-ND◆	70.22	TFT20030 NA005
28	.015 (.38)	.009 (.22)	ATFT20028-100-ND◆	61.54	TFT20028 NA005
26	.018 (.45)	.009 (.22)	ATFT20026-100-ND◆	55.73	TFT20026 NA005
24	.022 (.55)	.010 (.25)	ATFT20024-100-ND◆	61.07	TFT20024 NA005
22	.028 (.71)	.010 (.25)	ATFT20022-100-ND◆	71.15	TFT20022 NA005
19	.038 (.96)	.012 (.30)	ATFT20019-100-ND◆	92.36	TFT20019 NA005
18	.042 (1.07)	.012 (.30)	ATFT20018-100-ND◆	100.35	TFT20018 NA005
17	.047 (1.19)	.012 (.30)	ATFT20017-100-ND◆	109.96	TFT20017 NA005
16	.053 (1.35)	.012 (.30)	ATFT20016-100-ND◆	119.59	TFT20016 NA005
15	.059 (1.50)	.012 (.30)	ATFT20015-100-ND◆	123.30	TFT20015 NA005
14	.066 (1.68)	.012 (.30)	ATFT20014-100-ND◆	106.72	TFT20014 NA005
13	.076 (1.93)	.012 (.30)	ATFT20013-100-ND◆	122.94	TFT20013 NA005
12	.085 (2.16)	.012 (.30)	ATFT20012-100-ND◆	131.18	TFT20012 NA005
11	.095 (2.41)	.012 (.30)	ATFT20011-100-ND◆	143.69	TFT20011 NA005
10	.106 (2.69)	.012 (.30)	ATFT20010-100-ND◆	155.75	TFT20010 NA005
2	.263 (6.68)	.015 (.38)	ATFT2002-100-ND◆	363.03	TFT2002 NA005
1	.294 (7.47)	.015 (.38)	ATFT2001-100-ND	397.67	TFT2001 NA005
0	.330 (8.38)	.015 (.38)	ATFT2000-100-ND	449.62	TFT2000 NA005

◆ ***RoHS Compliant***

General Cable CAROL® BRAND

Shielded Microphone Cable

CONDUCTOR: Type 1: Fully annealed stranded tinned copper/ ASTM B-33. **Type 2:** Fully annealed stranded bare copper per ASTM B-33. **INSULATION: Type 1:**Premium grade color coded polypropylene. **Type 2:** Premium grade color coded rubber. **COLOR CODES:** See chart. **SHIELD: Type 1:** Conductive tape applied over the core; 100% Flexfoil aluminum/polyester 25% overlap, foil facing in; stranded tinned copper drain wire. **Type 2:** 80% tinned copper braid. **JACKET: Type 1:** PVC, Black -20°C ~ 75°C, 200 voltage rating **Type 2:** Black Rubber -20°C ~ 60°C, 300 voltage rating **Type 3:** Carolprene, Black -20°C ~ 60°C, 300 voltage rating **FEATURES: Note 1:** Excellent shielding to reduce noise **Note 2:** Precision engineered to transmit clear, noise-free signals **Note 3:** Eliminates hum pick-up **Note 4:** Resistant to oil, acid, sunlight, abrasion, and aging **Note 5:** Extreme noise reflection **Note 6:** Provides extra limpness **Note 7:** Low impedance **Note 8:** High impedance

COLOR CODE CHART 1

Conductor	Color	Conductor	Color
1	Black	2	Red

COLOR CODE CHART 2

Conductor	Color	Conductor	Color
1	White	2	Black

Conductor Type 1

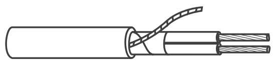

Conductor Type 2

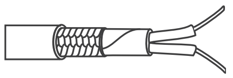

Cond. Type	Cond. Size (AWG.)	Cond. Strand	Insul. Type	Color Code Chart	Shield Type	Jacket Type	Features (Note No.)	No. of Cond.	Nom. Jacket Thickness Inch (mm)	Nom. Insulation Thickness Inch (mm)	Nominal O.D. Inch (mm)	Nom. Cap. pF/ft. A/B	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft.#	1,000 ft.#	General Cable Part No.
1	24	19/36	1	1	1	1	1	2	0.020 (.51)	0.008 (.20)	0.135 (3.43)	30/58	C1228-X-ND	51.60	171.18	229.26	C1228
2	20	26/34	2	2	2	2	2, 3, 6, 8	1	0.035 (.89)	0.040 (1.02)	0.230 (5.84)	B = 42	C1300-X-ND◆	85.15	—	411.23	C1300
	20	26/34	2	2	2	2	2, 3, 6, 7	2	0.035 (.89)	0.020 (.51)	0.270 (6.86)	B = 50	C1302-X-ND◆‡	122.63	461.77	622.48	C1302
	18	41/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.020 (.51)	0.295 (7.49)	B = 61	C1202-X-ND‡	139.12	529.24	715.43	C1202

◆ ***RoHS Compliant*** † Length tolerance is ±1% # Length tolerance is ±10% ‡ High and low impedance cable **A** = Conductor to conductor **B** = One conductor and other conductor connected to shield

Coaxial Cable

Fig. 1

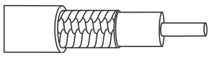

Fig. 2

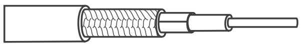

Fig. 3

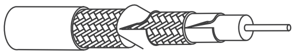

Fig. 4

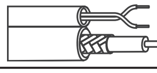

Fig. 5

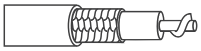

Fig.	RG Type	Conductor Size (AWG)	Jacket Type	Core O.D. Inch (mm)	Shield Type	Nominal O.D. Inch (mm)	Imped-ance (Ω)	Capacitance pF/FT (pF/M)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft. (†, ◊)	500 ft. (#)	1000 ft. (#)	General Cable Part No.
						RG-58							
1	58/U	20 (Solid BC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	30.00 (98.43)	W300-X-ND	47.46	154.27	205.22	C1166
		20 (19X.0071)(TC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	31.80 (104.34)	C1178-X-ND◆	51.67	—	229.70	C1178.21.01
	58/U Plenum	19 (Solid BC)	Flexguard/ White	0.102 (2.59)	95% TC Braid	0.161 (4.09)	50	25.00 (82.00)	C3519-X-ND	92.02	—	449.97	C3519.41.02
						RG-59							
1	59/U	22 (Solid CCS)	Black PVC	0.146 (3.71)	70% BC Braid	0.242 (6.15)	80	16.3 (53.48)	C1112-X-ND	58.57	147.56	—	C1112
	59/U Plenum	20 (Solid CCS)	Flexguard/ Natural	0.145 (3.68)	95% BC Braid	0.201 (5.11)	75	16.50 (54.14)	C3500-X-ND	102.45	—	502.98	C3500
						RG-6							
2	6/U	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil® Bonded +60% Alum. Braid with Water Block 9.0Ω/M	0.263 (6.68)	75	16.20 (53.15)	C5886-1000-ND	—	—	111.11	C5886.31.01
3	6/U Quad Shield	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil® + (1) 60%+ (1)40% Alum. Braid	0.292 (7.42)	75	16.20 (53.15)	C5785-1000-ND◆	—	—	123.45	C5785
4	6/U w/Unshielded pair	18 (Solid BC) 18 (7x26) pair	Black PVC	0.177 (4.50)	100% Flexfoil® + 95% TC Braid	0.270x0.493 (6.86x12.52)	75	16.20 (53.15)	C8029-1000-ND◆	—	—	472.65	C8029.41.01
						Various Types							
1	8/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	52	29.50 (96.79)	C1154-X-ND	130.82	—	662.92	C1154.41.01
	174/U	26 (7X34)(CCS)	Black PVC	0.060 (1.52)	95% TC Braid	0.103 (2.62)	50	30.80 (101.05)	C1156-X-ND	37.87	—	154.06	C1156.21.01
	213/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	50	30.80 (101.05)	C1176-X-ND◆	145.62	—	722.27	C1176.41.01
5	62/U	22 (Solid CCS)	Black PVC	0.146 (3.66)	95% BC Braid	0.242 (6.15)	93	13.60 (44.62)	W302-X-ND	72.64	—	351.71	C1164

◆ ***RoHS Compliant*** † Length tolerance is ±1% # Length tolerance is ±10% ‡ NEC Type CL2-CATV § Recommended for CATV applications ◊ 100 ft. spools are not UL marked * 100% Sweep Tested @ Frequency Band: 0 ~ 400MHz

AlphaWire
Cables you trust. Service you deserve.

Coaxial, Ethernet, Thinnet, Twinaxial Cable

Coaxial Cables, Non-Plenum Coaxial and Data Systems

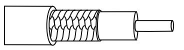

Thinnet — Plenum and Non-Plenum Ethernet Cables

Non-Plenum Twinaxial Cable

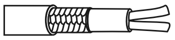

Cond. RG Type	Inner Size (AWG)	Inner Cond. Strand.	Dielec. Cond. Mat'l†	Dielectric Diameter Inch (mm)	Shield Dielec. Material†	Nom. Coverage	Jacket Shield Material†	Jacket Diameter Inch (mm)	Jacket Material†	Impe-dance (Ω)	Cap. pF/ft	Temperature Rate (°C)	Volt Rate	NEC/ UL (See Below)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price per roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
								Coaxial Cable											
58 A/U	20	19/0.0071”	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	V Black	50	30.5	60	150	1	A305-X-ND◆	80.30	272.52	423.11	9058AC-X
58 C/U	20	19/0.0071”	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	NCV Black	50	30.5	60	—	—	A306-X-ND◆	151.81	356.76	492.34	9058C-X
59/U	22	Solid	CW	.146 (3.71)	PE	95%	BC Braid	.242 (6.15)	V Black	75	21.4	60	30/AWM	1, 7	A301-X-ND◆	81.59	—	389.94	9059C-X
62 A/U	22	Solid	CW	.146 (3.71)	SSP	95%	BC Braid	.242 (6.15)	V Black	93	13.2	80	30/AWM	1, 8	A302-X-ND◆	75.33	250.99	342.48	9062A-X
174/U	26	7/34	CW	.060 (1.52)	PE	88%	TC Braid	.100 (2.54)	V Black	50	31.1	80	30/AWM	7, 9	A307-X-ND◆	72.23	242.25	372.59	9174-X
178 B/U	30	7/38	SC/CW	.034 (.86)	TFE	96%	SC Braid	.071 (1.80)	FEP Natural	50	28.4	200	—	—	A316-X-ND◆	301.82	1167.60	—	9178B-X
179 B/U	30	7/38	SC/CW	.063 (1.60)	TFE	93%	SC Braid	.100 (2.54)	Tint FEP Brown	75	19.6	200	—	—	A317-X-ND	170.01	555.33	816.88	M4253-X
214/U	13	7/0.0296”	SC	.285 (7.24)	PE	99%	SC Braid Dbl	.425 (10.79)	NCV Black	50	30.8	80	30/AWM	7	A308-X-ND◆§	1085.68	—	6458.06	9214-X
223/U	19	Solid	SC	.116 (2.95)	PE	99%	SC Braid Dbl	.212 (5.38)	NCV Black	50	31.5	75	—	—	A309-X-ND◆§	431.78	1461.04	2424.24	9223-X
316/U	26	7/0.0067”	SCCS	.060 (1.52)	TFE	93%	SC	.098 (2.49)	FEP	50	30.0	200	—	—	A315-X-ND	259.54	1047.12	1548.16	9316-X
8/U	13	7/21	BC	.285 (7.24)	PE	96%	BC Braid	.405 (10.29)	V Black	52	29.5	60	—	—	A318-X-ND	202.73	661.92	1077.68	9008-X
								Ethernet Cable											
Thinnet◊	20	19/0.0075”	TC	.112 (2.84)	FEP Teflon	95%	A/M/A+TC Braid	.182 (4.62)	F Gray	50	30.5	125	300	3, 4, 6	A311-1000-NDΔ	—	—	416.00	9871F-X
Thinnet‡	20	19/32	TC	.102 (2.59)	FPE	95%	A/M/A+TC Braid	.180 (4.57)	V Black	50	25.5	60	300	2, 4, 5	A312-1000-ND	—	—	338.01	9881C-1000
								Twinaxial Cable — RoHS Compliant											
Twinax#	20	7/28	BC/TC	.236 (5.99)	PE	95%	TC Braid	.330 (8.38)	V Black	100	15.5	75/CL2, 80/AWM	150/CL2, 30/AWM	1, 10	A303-500-ND	—	469.44	—	9818C-X

† Code Description:

A/M/A	—	Aluminum/Polyester/Aluminum Tape
BC	—	Bare Copper
CW	—	Copper Coated Steel
F	—	Fluoropolymer
FEP	—	Fluorinated Ethylene-Propylene
FPE	—	Cellular (foam) Polyethylene
NCV	—	Non-contaminating Polyvinyl chloride, Type II
PE	—	Solid Polyethylene
SC	—	Silver Coated Copper
SCCS	—	Silver Coated Copper Clad Steel
SSP	—	Semi-solid Polyethylene
TC	—	Tinned Copper
TFE	—	Tetrafluoroethylene
V	—	Polyvinyl Chloride - Type I

◆ ***RoHS Compliant***
Δ Plenum
◊ ETHERNET IEEE 802.3 10base2 10Mbps
‡ THIN-NET 10Mbps
# IBM SYSTEM (34/36/38/AS 400)
§ MIL-C-170 Type

NEC Rating —
1. CL2 **2.** CM **3.** CMP **4.** CXC **5.** FT4 **6.** FT6
UL Style —
7. UL AWM 1354
8. UL AWM 1478
9. UL 1354
10. UL AWM 2498
11. UL AWM 2704

Non-Fraying Expandable Braid Sleeving

Description: • Protection of Wire, Cable and Hoses • Wire bundling and Harnessing, Wire splicing • Frayless cuts without a hot knife • Use with automatic cutting machines • Not affected by most chemical environments and common solvents • Fungus Resistance: No growth • Withstands short-term exposure to 230°C **Operating Temperature:** -70°C ~ 125°C (MIL-I-631D) (GRP-120NF passes UL VW-1 Flame Test) **Color Description:** • GRP-110NF: Black • GRP-120NF: Black with White Tracer **Nominal Wall Thickness, Inches (mm):** .027 (.69)

Nominal Wall Thickness Inch (mm)	Minimum Supplied I.D. Inch (mm)	Maximum Expanded I.D. Inch (mm)	Digi-Key Part No. (General Purpose)	Price Per 100 ft.	Alpha Part No. (General Purpose)	Digi-Key Part No. (Flame Retardant)	Price Per 100 ft.	Alpha Part No. (Flame Retardant)
.027 (0.69)	.093 (2.36)	.250 (6.35)	AG110NF18B-100-ND	79.02	G110NF18 BK005	AG120NF18B-100-ND	114.95	G120NF18 BK005
.027 (0.69)	.125 (3.18)	.440 (11.18)	AG110NF14B-100-ND	108.34	G110NF14 BK005	AG120NF14B-100-ND	164.07	G120NF14 BK005
.027 (0.69)	.250 (6.35)	.750 (19.05)	AG110NF12B-100-ND	216.45	G110NF12 BK005	AG120NF12B-100-ND	246.39	G120NF12 BK005
.027 (0.69)	.500 (12.7)	1.25 (31.75)	AG110NF34B-100-ND	273.98	G110NF34 BK005	AG120NF34B-100-ND	368.01	G120NF34 BK005

FIT® Shrinkable Tubing
FIT® 221B

Features: • Economical bulk packaging • Flexibility • Excellent flame retardancy • Military, UL/CSA requirements **Characteristics:** • Operating Temperature: -55°C ~ 135°C • 125°C UL and CSA • Shrinkage Ratio: Approximately 2 to 1 at 121°C • Color: Black, Clear **Physical Properties:** • Tensile Strength: 1500psi, (106kg/cm^2) • Ultimate Elongation: 200% • Longitudinal Shrinkage: -5% • Specific Gravity: 1.35 • Secant Modulus: 2.5 x 10^4 maximum • Flammability: Self-extinguishing **Electrical Properties:** • Dielectric Strength: 500V/mil (197kV/cm) • Volume Resistivity: 10^{14} Ω-cm **Chemical Properties:** • Corrosive Effect: Passes copper stability test • Fungus Resistance: No growth **Specifications:** • MIL-DTL-23053/5C, Class 1, 2 • UL Standard 224 (black only) • CSA Standard 198 (black only)

CONTENTS for FIT-221 Variety Pack

Tubing Size	Number of Cut Pieces					
	Black	White	Red	Blue	Yellow	Green
1/8”	4	3	2	2	2	1
3/16”	4	3	2	2	2	1
1/4”	4	3	2	2	2	1
3/8”	3	2	1	1	1	1
1/2”	3	2	1	1	1	1

Color	Min. Supplied Inner Diameter Inch (mm)	Max. Recovered Inner Diameter Inch (mm)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Pricing Sold in 4’ Lengths 4’ (1 pc.)	Pricing Sold in 4’ Lengths 20’ (5 pcs.)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
FIT® 221B — Irradiated Polyolefin										
Black	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364B-4-ND◆	.88	3.90	A364B-1000-ND◆	1000	202.10	FIT-221B-3/64 BKXXX
Clear	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364C-4-ND◆	.88	3.90	—	—	—	FIT-221B-3/64 CLXXX
Black	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116B-4-ND◆	.92	4.10	A116B-1000-ND◆	1000	214.88	FIT-221B-1/16 BKXXX
Clear	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116C-4-ND◆	.92	4.10	A116C-1000-ND◆	1000	214.88	FIT-221B-1/16 CLXXX
Black	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332B-4-ND◆	1.04	4.60	A332B-500-ND◆	500	119.27	FIT-221B-3/32 BKXXX
Clear	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332C-4-ND◆	1.04	4.60	A332C-500-ND◆	500	119.27	FIT-221B-3/32 CLXXX
Black	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018B-4-ND◆	1.10	4.90	A018B-500-ND◆	500	128.59	FIT-221B-1/8 BKXXX
Clear	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018C-4-ND◆	1.10	4.90	A018C-500-ND◆	500	128.59	FIT-221B-1/8 CLXXX
Black	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316B-4-ND◆	1.35	6.00	A316B-500-ND◆	500	156.26	FIT-221B-3/16 BKXXX
Clear	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316C-4-ND◆	1.35	6.00	A316C-500-ND◆	500	156.26	FIT-221B-3/16 CLXXX
Black	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014B-4-ND◆	1.69	7.50	A014B-250-ND◆	250	97.70	FIT-221B-1/4 BKXXX
Clear	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014C-4-ND◆	1.69	7.50	A014C-250-ND◆	250	97.70	FIT-221B-1/4 CLXXX
Black	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038B-4-ND◆	1.89	8.40	A038B-200-ND◆	200	87.26	FIT-221B-3/8 BKXXX
Clear	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038C-4-ND◆	1.89	8.40	A038C-200-ND◆	200	87.26	FIT-221B-3/8 CLXXX
Black	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012B-4-ND◆	2.12	9.40	A012B-150-ND◆	150	73.82	FIT-221B-1/2 BKXXX
Clear	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012C-4-ND◆	2.12	9.40	A012C-150-ND◆	150	73.82	FIT-221B-1/2 CLXXX
Black	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034B-4-ND◆	3.15	14.00	AW034B-250-ND◆	250	189.45	FIT-221B-3/4 BKXXX
Clear	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034C-4-ND◆	3.15	14.00	—	—	—	FIT-221B-3/4 CLXXX
Black	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100B-4-ND◆	4.46	19.80	A100B-250-ND◆	250	223.44	F2211IN BKXXX
Clear	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100C-4-ND◆	4.46	19.80	—	—	—	F221B1IN CLXXX
FIT MGKIT 1 (Heat Gun plus FIT-221 Variety Pack)							FITMGKIT1-ND	118.67/1		FITMGKIT1 NC032
FIT-221 Variety Pack (60, 6 inch cut pieces, see chart above for contents)							FIT221R-ND◆	40.10/1		FIT-221-R MC213

◆ ***RoHS Compliant***

Spiral Wrap Tubing

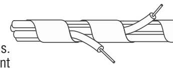

Clear Polyethylene: Ideal for general indoor applications. This cost-effective material is extremely abrasion resistant and is unaffected by most solvents. • **Operating Temperature:** -60°C ~ 88°C **Ultraviolet-Resistant Black Polyethylene:** Recommended for outdoor use. Same properties as Clear Polyethylene but contains extra additive for moisture resistance, ultraviolet light and rain. • **Operating Temperature:** -60°C ~ 88°C **Nylon:** Highly specialized product that is tough, durable, self-extinguishing, abrasion resistant, lightweight. Operates over a wide temperature range. • **Operating Temperature:** -40°C ~ 121°C **Teflon®*:** Self extinguishing, fluorocarbon, resin material. Possesses greatest minimum and maximum temperature range of any spiral wrap material. Suitable for use in a number of industrial applications. • **Operating Temperature:** -68°C ~ 260°C **PVC:** Superior taber abrasion resistance, tensile strength, thermal, mechanical and electrical properties. Self-extinguishing flexible product. • **Operating Temperature:** -20°C ~ 80°C

Size	Nominal O.D. (Inches)	Nom. Wall Thickness (Inches)	Max. Dia. Inner Wire Bundle (In.)	Digi-Key Part No.	Price Each 1	Price Each 5	Alpha Part No.
Clear Polyethylene (Color – Natural)							
1/8” x 25’	0.125	0.031	1/2	ASW1-25-ND	16.34	14.52	SW1 CL008
1/8” x 100’	0.125	0.031	1/2	ASW1-100-ND	21.08	18.74	SW1 CL005
1/4” x 25’	0.250	0.046	2	ASW2-25-ND	11.00	9.78	SW2 CL008
1/4” x 100’	0.250	0.046	2	ASW2-100-ND	35.35	31.42	SW2 CL005
3/8” x 25’	0.375	0.052	3	ASW3-25-ND	15.89	14.12	SW3 CL008
3/8” x 100’	0.375	0.052	3	ASW3-100-ND	58.16	51.70	SW3 CL005
1/2” x 25’	0.500	0.062	4	ASW4-25-ND	18.65	16.58	SW4 CL008
1/2” x 100’	0.500	0.062	4	ASW4-100-ND	65.48	58.20	SW4 CL005
3/4” x 25’	0.750	0.065	5	ASW5-25-ND	31.05	27.60	SW5 CL008
3/4” x 100’	0.750	0.065	5	ASW5-100-ND	108.92	96.82	SW5 CL005
1” x 25’	1.000	0.095	6	ASW6-25-ND	72.54	64.48	SW6 CL008
1” x 100’	1.000	0.095	6	ASW6-100-ND	229.37	193.16	SW6 CL005
Ultraviolet-Resistant Black Polyethylene (Color – Black)							
1/8” x 25’	0.125	0.030	1/2	ASW40-25-ND	16.00	14.22	SW40 BK008
1/8” x 100’	0.125	0.030	1/2	ASW40-100-ND	22.03	19.58	SW40 BK005
1/4” x 25’	0.250	0.045	2	ASW41-25-ND	12.98	11.54	SW41 BK008
1/4” x 100’	0.250	0.045	2	ASW41-100-ND	44.73	39.76	SW41 BK005
3/8” x 25’	0.375	0.050	3	ASW42-25-ND	18.54	16.48	SW42 BK008
3/8” x 100’	0.375	0.050	3	SW42 BK005-ND	63.74	56.66	SW42 BK005
1/2” x 25’	0.500	0.060	4	ASW43-25-ND	24.10	21.42	SW43 BK008
1/2” x 100’	0.500	0.060	4	ASW43-100-ND	82.62	73.44	SW43 BK005
3/4” x 25’	0.750	0.065	5	ASW44-25-ND	42.30	37.60	SW44 BK008
3/4” x 100’	0.750	0.065	5	ASW44-100-ND	144.97	128.86	SW44 BK005
1” x 25’	1.000	0.095	6	ASW45-25-ND	94.32	83.84	SW45 BK008
1” x 100’	1.000	0.095	6	ASW45-100-ND	276.34	232.71	SW45 BK005
Nylon (Color – Natural)							
1/8” x 25’	0.125	0.016	1/2	ASW20-25-ND	16.56	14.72	SW20 CL008
1/4” x 25’	0.250	0.025	2	ASW21-25-ND	28.73	25.54	SW21 CL008
1/4” x 100’	0.250	0.025	2	ASW21-100-ND	98.96	87.96	SW21 CL005
3/8” x 25’	0.375	0.035	3	ASW22-25-ND	64.08	56.96	SW22 CL008
3/8” x 100’	0.375	0.035	3	ASW22-100-ND	221.45	196.84	SW22 CL005
1/2” x 25’	0.500	0.035	4	ASW23-25-ND	82.62	73.44	SW23 CL008
1/2” x 100’	0.500	0.035	4	ASW23-100-ND	242.27	204.02	SW23 CL005
Teflon® (Color – Natural)							
1/8” x 25’	0.125	0.030	1/2	ASW30-25-ND	162.34	144.30	SW30 CL008
1/8” x 100’	0.125	0.030	1/2	ASW30-100-ND	474.96	399.97	SW30 CL005
1/4” x 25’	0.250	0.030	2	ASW31-25-ND	237.29	199.83	SW31 CL008
1/4” x 100’	0.250	0.030	2	ASW31-100-ND	694.22	650.84	SW31 CL005
3/8” x 25’	0.375	0.030	2-1/2	ASW32-25-ND	382.70	322.28	SW32 CL008
3/8” x 100’	0.375	0.030	2-1/2	ASW32-100-ND	1120.40	1050.38	SW32 CL005
1/2” x 25’	0.500	0.030	3	ASW33-25-ND	433.92	406.80	SW33 CL008
1/2” x 100’	0.500	0.030	3	ASW33-100-ND	1508.16	1413.90	SW33 CL005
PVC (Color – Black)							
1/8” x 25’	0.125	0.032	1/2	ASW50-25-ND	18.07	16.06	SW50 BK008
1/8” x 100’	0.125	0.032	1/2	ASW50-100-ND	66.40	59.02	SW50 BK005
1/4” x 25’	0.250	0.045	2	ASW51-25-ND	26.08	23.18	SW51 BK008
1/4” x 100’	0.250	0.045	2	ASW51-100-ND	88.76	78.90	SW51 BK005
3/8” x 25’	0.375	0.052	2-1/2	ASW52-25-ND	42.53	37.80	SW52 BK008
3/8” x 100’	0.375	0.052	2-1/2	ASW52-100-ND	145.67	129.48	SW52 BK005
1/2” x 25’	0.500	0.062	3	ASW53-25-ND	56.43	50.16	SW53 BK008
1/2” x 100’	0.500	0.062	3	ASW53-100-ND	193.16	171.70	SW53 BK005

****Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.***

FIT® Heat Shrink Fabric

Characteristics:

• Operating Temperature: -40°C ~ 125°C • Shrink Ratio: Approximately 2 to 1 at 135°C • Color Description: All standard packages: Black

Physical Properties:

• Longitudinal Shrinkage: Up to 20% at 2:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties:

• Corrosive Effect: non-corrosive • Fungus Resistance: No growth • Chemical Resistance: Antifreeze (50% ethylene glycol), Engine Oil, Mineral Hydraulic Fluid, Detergent (1% teepol), Brake Fluid (DOT 4), Unleaded Gasoline, Diesel Fuel, Battery Acid

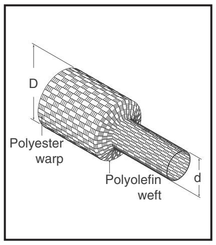

Minimum Supplied I.D. Inch (mm) (D)	Maximum Recovered I.D. Inch (mm) (d)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-50-ND◆	50	131.76	FITFAB-1 BK007
0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-200-ND◆	200	317.81	FITFAB-1 BK004
0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-50-ND◆	50	157.37	FITFAB-2 BK007
0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-200-ND◆	200	377.21	FITFAB-2 BK004
1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-50-ND◆	50	191.66	FITFAB-3 BK007
1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-200-ND◆	200	459.71	FITFAB-3 BK004
1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-50-ND◆	50	195.11	FITFAB-4 BK007
1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-200-ND	200	466.72	FITFAB-4 BK004
1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-25-ND	25	141.95	FITFAB-5 BK008
1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-100-ND	100	340.42	FITFAB-5 BK005
2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-25-ND	25	154.35	FITFAB-6 BK008
2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-100-ND	100	370.96	FITFAB-6 BK005
2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-25-ND◆	25	211.01	FITFAB-7 BK008
2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-100-ND◆	100	425.92	FITFAB-7 BK005

◆ ***RoHS Compliant***

FIT® Multi-Functional Heat Gun

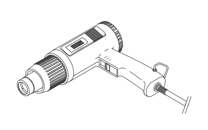

The economical and multi-functional FIT GUN-3 is a two-temperature heat gun that is lightweight in design.

The low setting is at 400°C (750°F) while the high temperature is rated at 585°C (1090°F).

It features a durable plastic housing with a built-in ring stand and hanger.

FITGUN3-ND Heat Gun **$95.29**

MASTER® APPLIANCE

MASTERMITE® Heat Gun

Certified

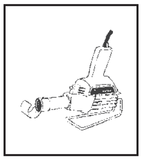

Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.5 amps maximum, continuous duty brushless motor, 120V, 60Hz, 4.5A.

MA1017-ND Heat Gun, ESD, 800°F (427°C) **$149.00**
MA1006-ND Heat Gun, 650°F (343°C) **$92.00**
MA1007-ND Replacement Heat Element **$28.15**

ProHeat® Heat Guns

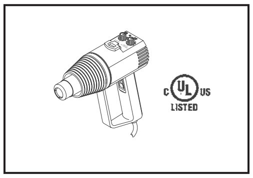

Features:
• Compact, light-weight, easy-to-use design, professional-quality heat guns • 120V • Variable temperature (some models) • Variable airflow (some models) • Special electronic closed loop temperature control system maintains constant temperature when varying airflow or using specialty attachments (some models) • Use to heat temperature sensitive materials • Base provides built-in stand for hands free use • Made in the USA

Description	Digi-Key Part No.	Price Each	Master Part No.
Proheat			
Gun, 430° ~ 840°F (221°C ~ 449°C), 15 CFM	MA1009-ND	89.00	PH-1100
VariTemp™			
Gun System, 130° ~ 840°F (54°C ~ 449°C), 15 CFM	MA1012-ND‡	159.00	PH-1200-1
Gun Kit, 130° ~ 840°F (54°C ~ 449°C), 15 CFM	MA1013-ND†	199.00	PH-1200-K
VariAir™			
Gun System, 130° ~ 900°F (54°C ~ 482°C), 6 ~ 15 CFM	MA1015-ND‡	199.00	PH-1300-1
Gun Kit, 130° ~ 900°F (54°C ~ 482°C), 6 ~ 15 CFM	MA1016-ND†	239.00	PH-1300-K

† Kit includes: Heat gun, attachments and storage case ‡ System includes: Heat gun, stand and attachment

Heat Gun

Features universal motor, high air velocity, volume and temperatures. Rugged die-cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 200° ~ 1000°F (93.3° ~ 538°C), 120VAC.

Description	Digi-Key Part No.	Price Each
Heat Gun, 200° ~ 300°F (93.3° ~ 149°C), 600W	MA1019-ND	120.00
Heat Gun, 300° ~ 500°F (149° ~ 260°C), 1440W	MA1018-ND	120.00
Heat Gun, 500° ~ 750°F (260° ~ 399°C), 1680W	MA1001-ND	120.00
Heat Gun, 750° ~ 1000°F (399° ~ 538°C), 1740W	MA1020-ND	120.00
Heat Shrink Attachment - Shrink Tubing from 3/4" to 2" (19 ~ 51mm) O.D.	MA1002-ND	12.95
Heat Reducer Attachment - 3/4" (19mm)	MA1004-ND	12.95
Replacement Heat Element	MA1005-ND	22.87

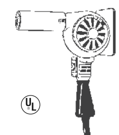

Certified

ECOHEAT™ Heat Gun and Kit

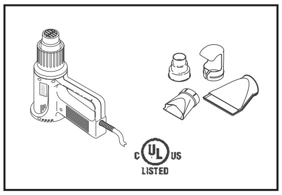

Features:
- Two fan speeds
- Two heat settings: 500°F and 1,000°F
- Resettable thermostat
- Thermoplastic housing
- Built-in stand

Kit Contains:
7/8" air reducer attachment, shrink tubing attachment, 1-15/16" and 3-1/8" spreader attachments, storage and carrying case.
MA1008-ND **$59.00**

NEW! ProHeat® LCD Heat Guns

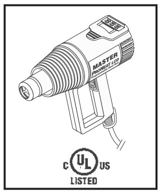

Features:
- Rugged, ergonomic heat guns with digital display of temperature and air flow
- Programmable or dial-in setting
- Adjustable heat in 10° increments from 130°F ~ 1000°F, and adjustable air flow from 4 to 16 CFM
- Electronic temperature control system maintains constant temperature when varying air flow or using attachments
- Use to heat temperature sensitive materials
- Multiple electrical plugs, attachments and bench stand available
- Made in the USA

Description	Digi-Key Part No.	Price Each	Master Part No.
ProHeat LCD Dial-in Heat Gun, 120V	MA1026-ND	219.00	PH-1400
PH-1400 Heat Gun with Bench Stand (35216) and Specialty Attachment (35292)	MA1027-ND	229.00	PH-1400-1
ProHeat LCD Dial-in Heat Gun Kit	MA1028-ND†	269.00	PH1400K
ProHeat LCD Programmable Heat Gun, 120V	MA1029-ND	249.00	PH-1500
ProHeat LCD Programmable Heat Gun Kit	MA1030-ND†	299.00	PH-1500K

† Kit includes: Heat gun, attachments and storage case

STEINEL®

UltraHeat™ Heat Blower

RoHS COMPLIANT

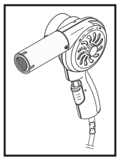

Professional quality blower features high air output (23 CFM) and 750°F ~ 1000°F temperature range. Model offers quick heat-up, cool air stage for rapid cool down and ultra quiet operation. Rugged yet lightweight construction with removable stand for hand held use.

Description	Digi-Key Part No.	Price Each	Steinel Part No.
Heat Blower	SDL4050-ND	99.99	SV750

NEW! Precision Hot Air Tools

RoHS COMPLIANT

HG 350 ESD is the ultimate precision hot air tool. **Features:** • Targeted 3.5 CFM airflow • 750°F temperature(930°F with included ¼" / 7mm reducer) • LED light illuminates work area

Description	Digi-Key Part No.	Price Each	Steinel Part No.
HG 350 ESD Hot Air Tool	SDL4051-ND	179.81	34735
Heat Reducer Nozzle Attachment ¼" (7mm)	SDL4052-ND	3.98	07730
Reducer with Reflector Guard	SDL4053-ND	5.98	07735
Precision Reflector	SDL4054-ND	10.98	07745
Reflector Nozzle 2/5" (10mm)	SDL4055-ND	3.98	07755
Reflector Nozzle 1½" (40mm)	SDL4056-ND	3.98	07765

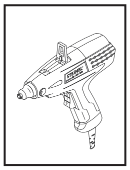

Heat Guns

Fig. 1
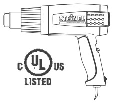

Fig. 2
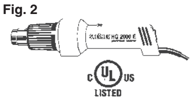

Fig. 3
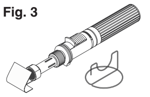

SDL1700-ND: • Dual Temperature: Low 600°F, High 950°F • Rapid cool down • 1300W • 120VAC **SDL1750-ND, SDL1450-ND:** • Variable Temperature up to 1050°F • 3-Stage Airflow • 1400W • 120VAC **SDL1500-ND, SDL1550-ND:** • Temp.: 120°F ~ 1200°F • Airflow 3.6 ~ 17.6 CFM • Programmable • 1600W • 120VAC **SDL1600-ND:** • Temperature: 120°F ~ 1100°F • Airflow 3.6/10.6/17.6 CFM • 1500W • 120VAC **SDL1650-ND:** • Temperature: 120°F/750°F/1100°F • Airflow 3.6/10/15.9 CFM • 1200W • 120VAC **SDL1250-ND:** • Temperature: 212°F ~ 1100°F • Airflow 14.3 CFM • 1500W • 120VAC **SDL1950-ND:** • Temperature: 1400°F/750°C • Rapid heat-up • Up to 120 minute continuous use • Removable deflector for shrink tube installation

Fig.	Description	Digi-Key Part No.	Price Each	Steinel Part No.
1	Heat Gun Dual Temperature, UltraHEAT™	SDL1700-ND	46.95	SV800
	Heat Gun Variable Temperature, UltraHEAT II	SDL1750-ND	65.92	SV803
	Heat Gun Kit with Case and Two Nozzles	SDL1450-ND	83.90	SV803K
	Heat Gun Programmable with LCD Display, ESD Safe	SDL1500-ND	307.70	HG2510ESD
	Heat Gun Programmable with LCD Display	SDL1550-ND	294.72	HG2310LCD
	Heat Gun Variable Temperature	SDL1600-ND	247.75	HL1910E
	Heat Gun 3-Stage Air and Temperature	SDL1650-ND	146.85	HL1810S
2	Variable Ergonomic Heat Gun	SDL1250-ND	224.78	HG2000E
—	Reducer-Reflector Nozzle 3/8" (9mm)	SDL1303-ND	24.97	SDL1303
	Reducer Nozzle Attachment 3/8" (9mm)	SDL1301-ND	14.77	SDL1301
	Reducer Nozzle Attachment 5/8" (14mm)	SDL1302-ND	14.77	SDL1302
	Reflector Nozzle 3" (75mm)	SDL1304-ND	20.78	SDL1304
	Reflector Nozzle 5/8" (14mm) (does not fit SDL1100)	SDL1305-ND	16.97	SDL1305
3	Flameless Heat Tool with Reflector Nozzle	SDL1950-ND	57.43	TH310

Heat Blower with Keys and Stand

RoHS COMPLIANT

The HB 1750 is the most ergonomically advanced high output blower in its class. **Features:** • Powerful turbine blower with air delivery rates up to 23 CFM • Color coded keys for the right temperature every time • Maintenance free factory sealed motor

Description	Digi-Key Part No.	Price Each	Steinel Part No.
Turbo Blower w/ a formidable air delivery rate (39,000 l/h)	SDL2000-ND	169.99	HB1750
Reduction Nozzle	SDL2050-ND	24.99	07695
Reflector Nozzle, Large	SDL3000-ND	19.99	07705
Reflector Nozzle, Small	SDL3050-ND	14.99	07715
Surface Nozzle	SDL4000-ND	49.99	07725

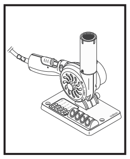

Cordless Soldering Irons

These are the ultimate cordless heat tools for professionals seeking to combine performance, versatility and great value. **Features:** • Multi-function tools may be used as soldering irons • Convenient portable torches • Safe and simple to use under most conditions

600 Series

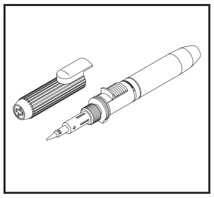

Specifications: • Soldering Iron Tip: 480°F ~ 1000°F/250°C ~ 550°C • Torch: 2500°F/1300°C • Accessories included: Soldering Tip and Protective Cap

ThermaSolder™ 600: TS 600, High capacity soldering iron with auto ignition and powerful 30W ~ 125W output. Refillable 38ml tank for 200 minutes of continuous use.
SDL1800-ND **$69.92**

ThermaSolder 600 Kit Includes: TS 600K Soldering Iron, Heat Blower Tip, Reflector Tip, Hot Knife Tip, Chisel Tip, Soldering Tip, Spare Orifice, Solder with Dispenser, Tip Cleaning Sponge, Protective Cap and Case.
SDL1850-ND **$107.88**

350 Series

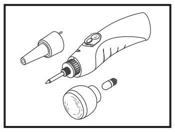

Specifications: • Soldering Iron Tip: 930°F/500°C maximum • 6W maximum • Power Source: 3, 1.5V Alkaline AA Batteries • Accessories included: Flashlight Attachment

ThermaSolder™ 350: TS 350, Anodized steel windproof mini torch with waterproof automatic ignition system. Adjustable flame, protective auto-flip cover and self standing base for highly versatile use. Includes convenient key chain.
SDL1900-ND **$31.46**

3M Heat Shrinkable Tubing

MFP®, EPS-300, SFTW202 GYS, SFTW203, 8420 and 8440 Series

MFP Series-Modified Polyvinylidene Fluoride: • **Shrink Temperature:** 175°C (347°F) • **Color:** Clear • **Shrink Ratio:** 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high temperature resistance. This has outstanding abrasion resistance and cut-through properties in combination with high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial fuels, chemicals and solvents. KYNAR is a registered trademark of Elf Atochem North America, Inc. **EPS-300 Series-Adhesive-Lined Flexible Polyolefin:** • **Shrink Temperature:** 121°C (250°F) • **Color:** Black • **Shrink Ratio:** 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. **SFTW202 GYS Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C (212°F) • **Color:** Green and yellow striped • **Shrink Ratio:** 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **SFTW203 Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C (212°F) • **Color:** Black • **Shrink Ratio:** 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **8420 Series-EPDM and 8440 Series-Silicone Rubber Tubes:** • **Color:** Black (8420 Series) and Gray (8440 Series). Cold Shrink™ Insulators-Open-ended, tubular rubber sleeves that are factory expanded and assembled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or adhesive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
MFP Series - Modified Polyvinylidene Fluoride									
3/64 (1.19)	1.17	0.58	0.25	KY364C-ND	5.77	10.00	22.12	46.16	76.93
1/16 (1.60)	1.60	0.79	0.25	KY116C-ND	5.92	10.26	22.70	47.37	78.94
3/32 (2.38)	2.36	1.17	0.25	KY332C-ND	6.33	10.98	24.27	50.66	84.43
1/8 (3.18)	3.18	1.57	0.25	KY018C-ND	6.85	11.87	26.26	54.81	91.34
3/16 (4.78)	4.75	2.36	0.25	KY316C-ND	9.65	17.07	37.12	71.26	—
1/4 (6.35)	6.35	3.18	0.30	KY014C-ND	11.91	21.06	45.79	87.92	—
3/8 (9.52)	9.53	4.75	0.30	KY038C-ND	14.34	25.37	55.14	105.87	—
1/2 (12.70)	12.70	6.35	0.30	KY012C-ND	19.03	33.09	66.18	—	—

Tubing Size Dia.‡ Inch (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Recovered Wall Thickness Nominal mm	Recovered Wall Thickness Meltable mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-300 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	10.48	18.16	40.17	83.84	126.63
3/16 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	9.96	17.61	38.29	71.22	—
1/4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	12.33	21.81	47.41	88.18	—
3/8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	13.95	24.68	53.64	99.77	—
1/2 (12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	16.30	28.83	62.68	116.59	—

Tubing Size Dia.‡ Inch (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	Reel Qty.	Price Per Full Reel
SFTW202 GYS Series - Very Flexible Polyolefin									
1/8 (3.18)	3.18	1.50	0.51	SFTW2018E-X-ND	6.66	26.63	38.17	500	275.65
3/16 (4.78)	4.76	2.50	0.55	SFTW2316E-X-ND	9.23	36.92	52.92	250	191.07
1/4 (6.35)	6.35	3.00	0.65	SFTW2014E-X-ND	10.19	40.78	58.45	200	168.82
3/8 (9.52)	9.53	4.50	0.76	SFTW2038E-X-ND	11.31	45.25	64.85	200	187.32
1/2 (12.70)	12.70	6.00	0.76	SFTW2012E-X-ND	12.71	50.84	72.86	200	210.46
SFTW203 Series - Very Flexible Polyolefin									
1/16 (1.59)	1.50	0.50	0.45	SFTW2116K-X-ND	2.39	9.57	13.72	1,000	198.10
1/8 (3.18)	3.00	1.00	0.55	SFTW2018K-X-ND	2.73	10.92	15.65	500	113.02
1/4 (6.35)	6.00	2.00	0.65	SFTW2014K-X-ND	4.14	16.57	23.75	200	68.59
3/8 (9.52)	9.00	3.00	0.75	SFTW2038K-X-ND	4.63	18.51	26.53	200	76.63
1/2 (12.70)	12.00	4.00	0.75	SFTW2012K-X-ND	5.22	20.89	29.94	200	86.47

‡ Indicates size BEFORE shrinking occurs.

Diameter Range Inches (mm)	Relaxed Tube Length Inches (mm)	Digi-Key Part No.	Pricing 1	10
8420 - EPDM Cold Shrink Tubes				
0.31 ~ 0.56 (7.87 ~ 14.22)	6.00 (152.40)	8423-6-ND	14.68	134.03
0.10 ~ 0.82 (2.54 ~ 20.83)	8.00 (203.20)	8424-8-ND	18.82	171.83
0.40 ~ 0.82 (10.16 ~ 20.83)	8.00 (203.20)	8425-8-ND	16.50	150.65
0.55 ~ 1.18 (13.97 ~ 29.97)	9.00 (228.60)	8426-9-ND	19.66	179.50
0.55 ~ 1.18 (13.97 ~ 29.97)	11.00 (279.40)	8426-11-ND	23.54	214.92
0.67 ~ 1.38 (17.02 ~ 35.05)	6.00 (152.40)	8427-6-ND	14.86	135.67
0.67 ~ 1.38 (17.02 ~ 35.05)	12.00 (304.80)	8427-12-ND	29.34	267.87
0.67 ~ 1.38 (17.02 ~ 35.05)	16.00 (406.40)	8427-16-ND	39.18	357.71
0.95 ~ 1.94 (24.13 ~ 49.28)	6.00 (152.40)	8428-6-ND	20.98	191.55
0.95 ~ 1.94 (24.13 ~ 49.28)	12.00 (304.80)	8428-12-ND	41.80	381.63
0.95 ~ 1.94 (24.13 ~ 49.28)	18.00 (457.20)	8428-18-ND	62.88	574.09
1.27 ~ 2.67 (32.26 ~ 67.82)	6.00 (152.40)	8429-6-ND	22.92	209.26
1.27 ~ 2.67 (32.26 ~ 67.82)	9.00 (228.60)	8429-9-ND	34.32	313.34
1.27 ~ 2.67 (32.26 ~ 67.82)	12.00 (304.80)	8429-12-ND	47.00	429.11
1.27 ~ 2.67 (32.26 ~ 67.82)	18.00 (457.20)	8429-18-ND	68.74	627.60
1.68 ~ 3.69 (42.67 ~ 93.73)	18.00 (457.20)	8430-18-ND	74.94	684.20
8440 - Silicone Cold Shrink Tubes				
0.27 ~ 0.56 (6.86 ~ 14.22)	2.00 (50.80)	8443-2-ND	8.96	81.80
0.27 ~ 0.56 (6.86 ~ 14.22)	6.50 (165.10)	8443-6.5-ND	12.44	113.58
0.35 ~ 0.72 (8.89 ~ 18.29)	2.50 (63.50)	8445-2.5-ND	9.32	85.09
0.35 ~ 0.72 (8.89 ~ 18.29)	7.50 (190.50)	8445-7.5-ND	13.62	124.35
0.48 ~ 0.95 (12.19 ~ 24.13)	3.20 (81.28)	8447-3.2-ND	11.42	104.26
0.48 ~ 0.95 (12.19 ~ 24.13)	8.00 (203.20)	8447-8-ND	16.40	149.73

EPS-200 and VFP-876 Series

EPS-200 Series: • **Shrink Temperature:** 121°C • **Color:** Black • **Shrink Ratio:** 2:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. Rated for operation at -55°C ~ 110°C (-67°F ~ 230°F). **VFP-876 Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C • **Color:** Black • **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter‡ Inch (mm)	Inside Diameter Expanded Minimum mm	Inside Diameter Recovered Maximum mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-200 Series - Adhesive-lined, Flexible, Polyolefin									
1/8 (3.18)	3.18	1.60	0.69	EPS2018-ND	5.88	10.18	22.52	47.00	75.89
3/16 (4.76)	4.75	2.36	0.69	EPS2316-ND	5.54	9.80	21.31	39.63	—

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48'' (12pc.)
1/4 (6.35)	6.35	3.18	0.76	EPS2014-ND	6.93	12.27	26.67	49.60
3/8 (9.53)	9.52	4.75	0.79	EPS2038-ND	7.81	13.82	30.05	55.89
1/2 (12.70)	12.70	6.35	0.81	EPS2012-ND	8.97	15.88	34.52	64.20
3/4 (19.05)	19.05	9.52	0.94	EPS2034-ND	10.86	18.88	36.58	—
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	15.96	27.76	53.79	—
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	27.92	48.56	94.09	—
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	38.86	60.23	—	—

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'
VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing									
3/64 (1.19)	1.17	0.58	0.41	VFP364-X-ND	2.25	10.03	17.97	32.35	—
1/16 (1.59)	1.60	0.79	0.43	VFP116-X-ND	2.29	10.23	18.33	32.99	—
3/32 (2.38)	2.36	1.17	0.51	VFP332-X-ND	2.42	10.82	17.44	27.78	—
1/8 (3.18)	3.18	1.57	0.51	VFP018-X-ND	2.61	11.67	18.81	29.95	—
3/16 (4.76)	4.75	2.36	0.51	VFP316-X-ND	3.18	12.73	18.24	32.24	—
1/4 (6.35)	6.35	3.18	0.64	VFP014-X-ND	3.97	15.89	22.77	40.24	65.76
3/8 (9.53)	9.52	4.75	0.64	VFP038-X-ND	4.43	17.74	25.42	44.94	73.43
1/2 (12.70)	12.70	6.35	0.64	VFP012-X-ND	5.00	20.00	28.67	50.67	82.81
3/4 (19.05)	19.05	9.52	0.76	VFP034-X-ND	6.67	26.67	38.23	67.56	110.41
1 (25.40)	25.40	12.70	0.89	VFP100-X-ND	9.97	39.89	57.18	82.58	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	18.59	74.35	106.56	153.90	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	25.68	102.74	147.25	212.66	—

‡ Indicates size BEFORE shrinking occurs.

Colored Heat Shrinkable Tubing

FP-301 Series

Available in 7 Colors: (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)
• **Shrink Temperature:** 121°C • **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'	250'
FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color										
3/64 (1.19)	1.17	0.58	0.41	FP364☐-X-ND†§	1.92	8.60	15.41	27.73	—	55.21
1/16 (1.59)	1.60	0.79	0.43	FP116☐-X-ND	1.92	8.59	15.38	27.67	—	55.09
3/32 (2.38)	2.36	1.17	0.51	FP332☐-X-ND	2.04	9.10	14.67	23.36	—	51.61
1/8 (3.18)	3.18	1.57	0.51	FP018☐-X-ND	2.15	9.61	15.49	24.68	—	54.51
3/16 (4.76)	4.75	2.36	0.51	FP316☐-X-ND	2.51	10.04	14.38	25.41	—	56.30
1/4 (6.35)	6.35	3.18	0.64	FP014☐-X-ND	3.13	12.54	17.97	31.76	56.33	—
3/8 (9.53)	9.52	4.75	0.64	FP038☐-X-ND	3.50	13.99	20.06	35.45	62.87	—
1/2 (12.70)	12.70	6.35	0.64	FP012☐-X-ND	4.21	16.82	24.10	42.60	70.90	—
3/4 (19.05)	19.05	9.52	0.76	FP034☐-X-ND	5.60	22.41	32.10	56.75	94.52	—
1 (25.40)	25.40	12.70	0.89	FP100☐-X-ND	8.38	33.50	48.00	70.62	—	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112☐-X-ND†	13.75	55.01	78.84	131.63	—	—
2 (50.80)	50.80	25.40	1.14	FP200☐-X-ND†	19.00	76.03	108.97	181.91	—	—

‡ Indicates size BEFORE shrinking occurs. † Not available in Green. § Not available in Blue.

Note: For complete number, substitute ☐ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.

FPC-KIT-ND ***Digi-Key® FP-301 Series Kit*** One 5 foot tubing of each color in the following series: FP364, FP116, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes).. **$84.95**

Heat Shrink Precut Lengths and Kits

FP-301 Series-Flexible Polyolefin: • **Shrink Temperature:** 121°C • **Color:** Black • **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

VFP-876 Series-Very Flexible Polyolefin: • **Shrink Temperature:** 100°C • **Color:** Black • **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter x Length‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thickness mm	Digi-Key Part No.	Pricing (50 pcs./Bag) 1 Bag	5 Bags
FP-301 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	FP364K-R50-ND	1.16	4.62
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.43	FP116K-R50-ND§	1.18	4.71
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	FP332K-R50-ND§	1.25	4.99
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	FP018K-R75-ND§	1.79	7.18
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.51	FP316K-R75-ND§	2.18	8.72
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.64	FP014K-1R0-ND§	3.41	13.63
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.64	FP014K-1R5-ND§	4.77	19.08
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.64	FP038K-1R5-ND	5.32	21.29
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.64	FP012K-1R5-ND	6.00	24.01
VFP-876 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	VFP364-R50-ND	1.35	5.39
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.41	VFP116-R50-ND†	1.37	5.50
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	VFP332-R50-ND†	1.45	5.81
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	VFP018-R75-ND†	2.09	8.36
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.58	VFP316-R75-ND†	2.55	10.18
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.71	VFP014-1R0-ND†	3.97	15.89
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.71	VFP014-1R5-ND†	5.56	22.24
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.71	VFP038-1R5-ND	6.21	24.83
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.71	VFP012-1R5-ND	7.00	28.00

‡ Indicates size BEFORE shrinking occurs.

§ **FP-KIT-ND** ***Digi-Key® FP-301 Series Kit*** 50 each of pieces denoted (Exception: FP116K-R50-ND has 100 pieces), 350 total pieces. Black. Plastic box and label card included.. **$22.95**

† **VFP-KIT-ND** ***Digi-Key® VFP-876 Series Kit*** 50 each of pieces denoted (Exception: VFP116-R50-ND has 100 pieces), 350 total pieces. Plastic box and label card included.. **$22.95**

Tyco Electronics
Authorized Distributor

Raychem Terminals and Splices

CWT-900X Series – Solder Sleeve Wire Splices

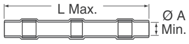

Materials: • Insulation Sleeve: Heat-shrinkable, radiation cross-linked modified polyolefin. Transparent clear. **• Solder Preform with Flux:** *Solder:* Type CD18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004 **Application:** These controlled soldering devices are designed to splice tin-plated or bare copper stranded wires rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C

AWG (Color)	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Length - L Maximum		10	50	100	
24-20 (Clear)	.065 (1.7)	1.025 (26.0)	CWT9001-ND	11.81	52.83	87.01	CWT-9001
18-16 (Red)	.105 (2.7)	1.655 (42.0)	CWT9002-ND	11.76	52.62	86.66	CWT-9002
16-12 (Blue)	.180 (4.5)	1.655 (42.0)	CWT9003-ND	12.36	55.29	91.07	CWT-9003

CWT-150X Series – Wire Termination to Pin, Post or Tab

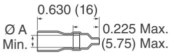

Materials: • Insulation Sleeve: Heat-shrinkable, transparent clear, radiation cross-linked modified polyolefin **• Solder Preform with Flux:** *Solder:* Type Cd18 per ANSI-J-STD-006 *Flux:* Type ROM1 per ANSI-J-STD-004 **Application:** These controlled soldering devices are designed for termination of a wire to the lead of electrical component or to the terminal of a connector. **Temperature Range:** -55°C ~ 125°C

Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A - Min.	Pin Diameter - Max.		10	50	100	
.060 (1.5)	.025 (0.6)	CWT1501-ND	7.28	32.58	53.66	CWT-1501

Note: Please refer to data sheet for Post or Tab sizes

CWT-X-W122-5 Series – Shield Terminators

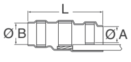

Materials: • Insulation Sleeve: Transparent heat-shrinkable radiation cross-linked modified polyolefin **• Solder Preform with Flux:** *Solder:* Type Cd18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004 **• Ground Lead:** Raychem cross-linked polyethylene wire, AWG22, stranded tin plated copper **• Color:** Green **Application:** These controlled soldering devices are designed for termination of a bare or tin plated copper shield on a cable having an insulation rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C

Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A Minimum	Diameter B Minimum	Length - L Maximum		10	50	100	
.098 (2.50)	.118 (3.00)	.965 (24.50)	CWT3W1225-ND	30.74	137.51	226.49	CWT-3-W122-5
.169 (4.30)	.189 (4.80)	1.154 (29.30)	CWT5W1225-ND	36.63	163.86	269.89	CWT-5-W122-5
.252 (6.40)	.287 (7.30)	1.280 (32.50)	CWT7W1225-ND	28.34	126.78	208.81	CWT-7-W122-5

S01-0X-R Series – Shield Terminators

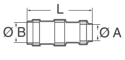

Materials: • Insulation Sleeve: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride **• Solder Preform with Flux and Thermal Indicator:** *Solder:* Type Sn63 per ANSI-J-STD-006 *Flux:* Type ROL1 per ANSI-J-STD-004 *Thermal Indicator:* Color change: violet to colorless **Application:** These parts are designed to make an environment resistant shield termination **• Jacket Rating:** 125°C • Parts are qualified to M83519/1

Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A Minimum	Diameter B Minimum	Length - L Nominal		10	50	100	
.075 (1.90)	.105 (2.65)	.65 (16.5)	S0101R-ND	31.12	139.21	229.29	S01-01-R
.105 (2.65)	.145 (3.68)	.65 (16.5)	S0102R-ND	30.69	137.28	226.10	S01-02-R
.170 (4.30)	.200 (5.08)	.65 (16.5)	S0103R-ND	32.50	145.41	239.51	S01-03-R
.235 (5.95)	.255 (6.45)	.75 (19.1)	S0104R-ND	38.65	172.91	284.80	S01-04-R
.275 (7.00)	.300 (7.60)	.75 (19.1)	S0105R-ND	44.85	200.66	330.51	S01-05-R

D-406 Series – DURASEAL®
Closed Barrel / Crimp Splice

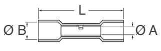

Materials: • Insulation Sleeve: Heat shrinkable, radiation cross-linked polyamide (nylon) with a polyamide-based hot-melt adhesive liner. Color per table. **• Crimp Splice:** Tin-plated copper alloy **Application:** These parts may be used to obtain an environment-resistant one-to-one in-line (butt) splice in wires meeting the size range and diameter restraints specified herein and having a temperature rating of not less than 85°C.

AWG (Color)	Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Diameter B Minimum	Length - L Nominal		10	50	100	
18-22 (Red)	.058 (1.47)	.146 (3.70)	1.24 (31.5)	D4060001-ND	10.70	47.86	78.82	D-406-0001
14-16 (Blue)	.092 (2.33)	.181 (4.60)	1.24 (31.5)	D4060002-ND	10.70	47.86	78.82	D-406-0002
10-12 (Yellow)	.138 (3.50)	.255 (6.50)	1.48 (37.5)	D4060003-ND	14.54	65.07	107.17	D-406-0003

Raychem Heat Shrinkable Caps
PD and ES Caps Series

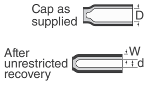

PD Caps Series – Semirigid, Encapsulant-lined:

Dual wall PD Caps inexpensively encapsulate crimped electrical connections, including those on motor coils. They remain tightly in place for the life of the motor. **• Shrink Ratio:** 3:1 **• Full Recovery Temperature:** 135°C **• Operating Temperature:** -55°C ~ 110°C • UL Recognized File No. E85381 • CSA Certified LR31929

ES Caps Series – Semirigid, Adhesive-lined, Polyolefin:

ES Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear ES Caps allow see-through inspection; black ES Caps are flame-retardant. **• Shrink Ratio:** 4:1 **• Full Recovery Temperature:** 135°C **• Operating Temperature:** -40°C ~ 105°C • UL Recognized File No. E85381

Tubing Size‡	Inside Diameter (mm)		Recovered Wall Thick.† W (mm)	Digi-Key Part No.	Pricing			Raychem Part No.
	Expanded D - Min.	Recovered d - Max.			100	500	1,000	
PD Caps Series – Black								
1/8	3.2	0.58	1.22	PDC018K-ND	7.24	31.68	54.32	PD-CAP-1/8-0
3/16	4.7	1.52	1.57	PDC316K-ND	7.60	33.27	57.03	PD-CAP-3/16-0
1/4	6.4	2.03	1.98	PDC014K-ND	12.56	54.97	94.23	PD-CAP-1/4-0
3/8	9.5	2.29	2.08	PDC038K-ND	22.55	98.67	169.16	PD-CAP-3/8-0
1/2	12.7	2.29	2.54	PDC012K-ND	37.95	166.05	284.66	PD-CAP-1/2-0

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Min.‡ Length (mm)	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Pricing			Raychem Part No.
	Expand. D - Min. (mm)	Recov. d - Max. (mm)	Total W (mm)	Meltable W1 (mm)		100	500	1,000	
ES Caps Series - Clear									
30	5.70	1.27	1.20	0.56	ESC30C-ND	11.13	48.68	83.45	ES-CAP-NO.1-C1-X-30MM
35	5.70	1.27	1.20	0.56	ESC35C-ND	12.59	55.10	94.46	ES-CAP-NO.1-C1-X-35MM
50	10.85	2.41	1.91	1.02	ESB50C-ND	34.39	150.46	257.93	ES-CAP-NO.3-B8-X-50MM
ES Caps Series - Black									
30	5.70	1.27	1.20	0.56	ESC30K-ND	11.13	48.68	83.45	ES-CAP-NO.1-C1-0-30MM
35	5.70	1.27	1.20	0.56	ESC35K-ND	12.59	55.10	94.46	ES-CAP-NO.1-C1-0-35MM
30	7.40	1.65	1.52	0.76	ESB30K-ND	14.17	61.99	106.28	ES-CAP-NO.2-B9-0-30MM
35	7.40	1.65	1.52	0.76	ESB35K-ND	15.85	69.34	118.88	ES-CAP-NO.2-B9-0-35MM
40	10.85	2.41	1.91	1.02	ESB40K-ND	28.37	124.14	212.81	ES-CAP-NO.3-B8-0-40MM
50	10.85	2.41	1.91	1.02	ESB50K-ND	34.39	150.46	257.93	ES-CAP-NO.3-B8-0-50MM

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Raychem Heat Shrink Tubing
ATUM, DWP-125, and TAT-125 Series

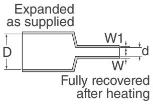

ATUM Series – Adhesive-lined, High-Shrink-Ratio, Polyolefin:

• Shrink Temperature: 80°C **• Full Recovery Temperature:** 110°C **• Operating Temperature:** -55°C ~ 110°C **• Color:** Black **• Shrink Ratio:** 3:1 and 4:1 • UL Recognized file No. E85381 • Military AMS-DTL-23053/4 **Applications:** • Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper. • Dual Wall

DWP-125 Series – Adhesive-lined, Flexible, High-Shrink-Ratio, Polyolefin:

• Shrink Temperature: 80°C **• Full Recovery Temperature:** 125°C **• Operating Temperature:** -40°C ~ 110°C **• Color:** Black **• Shrink Ratio:** 3:1 • UL Recognized file No. E35586 • CSA Certified LR31929 **Applications:** • Environmentally seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions. Ideal for applications where UL recognized/CSA certified adhesive-lined tubing is required. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, and steel. • Dual Wall

TAT-125 Series – Adhesive-lined, Flexible, Polyolefin:

• Shrink Temperature: 95°C **• Full Recovery Temperature:** 121°C **• Operating Temperature:** -55°C ~ 110°C **• Color:** Black **• Shrink Ratio:** 2:1 • UL Recognized file No. E85381 • Military AMS-DTL-23053/4 **Applications:** • Seals and protects simple in-line splices, bimetallic joints, and components from fluids, moisture, and corrosion. Repairs damaged wire insulation, especially where flexibility is required. Provides one-step electrical insulation and moisture sealing. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, lead, and steel. • Dual Wall

Tubing Size‡	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
	Expand. D - Min. (mm)	Recov. d - Max. (mm)	Total W (mm)	Meltable W1 (mm)		4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
ATUM Series										
3/1	3.0	1.0	1.00	0.50	ATU031K-ND	9.70	16.81	37.19	77.61	129.34
6/2	6.0	2.0	1.00	0.50	ATU062K-ND	14.76	25.59	56.59	118.10	196.83
9/3	9.0	3.0	1.40	0.61	ATU093K-ND	22.49	38.98	86.20	179.89	299.82
12/4	12.0	4.0	1.78	0.76	ATU124K-ND	26.77	46.40	102.62	214.16	356.93
19/6	19.0	6.0	2.25	0.76	ATU196K-ND	37.48	64.96	143.66	299.81	499.68
24/8	24.0	8.0	2.54	1.02	ATU248K-ND	52.20	90.48	200.10	417.59	695.98
40/13	40.0	13.0	2.54	1.02	ATU4013K-ND	44.63	77.35	171.07	357.01	595.02
4/1	4.0	1.0	1.00	0.50	ATM041K-ND	12.34	21.38	47.29	98.70	164.50
8/2	8.0	2.0	1.00	0.50	ATM082K-ND	17.27	29.94	66.21	138.17	230.29
12/3	12.0	3.0	1.40	0.61	ATM123K-ND	30.64	53.11	117.46	245.13	408.54
16/4	16.0	4.0	1.78	0.76	ATM164K-ND	40.85	70.81	156.61	326.83	544.72
24/6	24.0	6.0	2.25	0.76	ATM246K-ND	62.98	109.17	241.44	503.88	839.79
32/8	32.0	8.0	2.54	1.02	ATM328K-ND	44.42	76.99	170.27	355.35	592.26
52/13	52.0	13.0	2.54	1.02	ATM5213K-ND	56.86	98.55	217.95	454.85	758.08
DWP-125 Series										
1/8	3.2	1.0	1.02	0.25	DWP018K-ND	6.20	10.75	23.78	49.62	82.70
3/16	4.8	1.5	1.40	0.51	DWP316K-ND	6.46	11.20	24.78	51.71	86.18
1/4	6.4	2.0	1.45	0.56	DWP014K-ND	8.10	14.03	31.04	64.77	107.95
3/8	9.5	3.0	1.65	0.68	DWP038K-ND	8.94	15.49	34.26	71.50	119.17
1/2	12.7	4.0	1.78	0.76	DWP012K-ND	8.93	15.48	34.24	71.46	119.10
3/4	19.1	6.0	2.03	0.76	DWP034K-ND	19.10	33.10	73.21	152.78	254.64
1	25.4	8.0	2.50	0.76	DWP001K-ND	26.60	46.10	101.96	212.78	354.64
1-1/2	38.1	13.0	2.50	0.76	DWP112K-ND	42.86	74.29	164.29	342.86	571.44
TAT-125 Series										
1/8	3.2	1.6	0.69	0.23	TAT018K-ND	6.33	10.97	24.25	50.61	84.35
3/16	4.8	2.4	0.71	0.25	TAT316K-ND	7.69	13.33	29.49	61.55	102.58
1/4	6.4	3.2	0.74	0.13	TAT014K-ND	9.65	16.72	36.97	77.16	128.61
3/8	9.5	4.8	0.74	0.13	TAT038K-ND	10.76	18.65	41.25	86.09	143.49
1/2	12.7	6.4	0.76	0.15	TAT012K-ND	13.38	23.19	51.28	107.01	178.35
3/4	19.1	9.5	0.89	0.15	TAT034K-ND	17.81	30.87	68.26	142.46	237.44
1	25.4	12.7	1.07	0.20	TAT001K-ND	26.63	46.16	102.09	213.06	355.10
1-1/2	38.1	19.1	1.19	0.28	TAT112K-ND	30.98	53.69	118.74	247.80	413.01

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

DWP-125 Heat Shrink Tubing Kits

DWP3-KIT-ND	1/8" 25 pcs., 3/16" 25 pcs., 1/4" 24 pcs., 1/2" 10 pcs., 3/4" 5 pcs., 1" 3 pcs., Black	**$101.48**

Refill parts:

DWP018M-ND	1/8" 25 pieces, Black	**$15.32**	**DWP012M-ND**	1/2" 10 pieces, Black	**$15.32**
DWP316M-ND	3/16" 25 pieces, Black	**$15.32**	**DWP034M-ND**	3/4" 5 pieces, Black	**$15.32**
DWP014M-ND	1/4" 24 pieces, Black	**$15.32**	**DWP001M-ND**	1" 3 pieces, Black	**$15.32**

ES1000C-ND	ES1000-NO.1, 6 pcs.; ES1000-NO.2, 5 pcs.; ES1000-NO.3, 5 pcs.; ES1000-NO.4, 3 pcs.; Clear	**$14.88**

Note: All kits have 6" pieces

(Continued)

Tyco Electronics
Authorized Distributor

Raychem Heat Shrink Tubing *(Cont.)*

RW-175, RNF-100, and Versafit Series

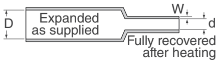

RW-175 Series – Thin-wall, Semirigid, Fluoropolymer:

• **Shrink Temperature:** 155°C • **Full Recovery Temperature:** 175°C • **Operating Temperature:** -55°C ~ 175°C • **Shrink Ratio:** 2:1 • **Color:** Clear • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/8 • Suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, or superior chemical and solvent properties. The translucent polyvinylidene fluoride material permits visual inspection of covered components

RNF-100 Series – Flexible, Flame-retardant, High Performance Polyolefin:

• **Shrink Temperature:** 95°C • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 135°C • **Shrink Ratio:** 2:1 • **Color:** Black • UL Recognized File No. E35586 • CSA Certified LR31929 • AMS-DTL-23053/5 • High-quality, heat-shrinkable product for a wide variety of uses. It has become the industry standard for insulation, strain relief, wire bundling, and color-coding in both commercial and military applications. Excellent physical, chemical and electrical properties that meet industrial and military requirements for a highly reliable, general-purpose tubing.

Versafit Series – Highly Flame-retardant, Low Recovery Temperature:

• **Shrink Temperature:** 70°C • **Full Recovery Temperature:** 90°C • **Operating Temperature:** -55°C ~ 135°C • **Shrink Ratio:** 2:1 • **Color:** Black • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/5 • Cost-effective for commercial and military applications. It is made from a specially formulated, cross-linked polyolefin to provide high flame-retardance, excellent flexibility, and low shrink temperature (to reduce installation time).

Tubing Size Diameter‡ Inches (mm)	Min. Expand. D (mm)	Max. Recov. d (mm)	Nom. Recov. Wall Thick.† W (mm)	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
RW-175 Series - Thin wall, Semirigid, Fluoropolymer									
3/64 (1.19)	1.2	0.6	0.25	RW364C-ND	4.59	7.95	17.58	36.69	61.15
1/16 (1.60)	1.6	0.8	0.25	RW116C-ND	4.82	8.35	18.46	38.53	64.22
3/32 (2.38)	2.4	1.2	0.25	RW332C-ND	5.35	9.27	20.51	42.80	71.33
1/8 (3.18)	3.2	1.6	0.25	RW018C-ND	5.83	10.11	22.35	46.65	77.74
3/16 (4.78)	4.7	2.4	0.25	RW316C-ND	9.09	15.76	34.85	72.74	121.23
3/8 (9.52)	9.5	4.7	0.33	RW038C-ND	13.76	23.85	52.75	110.08	183.47
1/2 (12.70)	12.7	6.4	0.33	RW012C-ND	24.59	42.63	94.28	196.75	327.92
3/4 (19.05)	19.1	9.5	0.43	RW034C-ND	45.25	78.43	173.45	361.99	603.31
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin									
3/64 (1.19)	1.2	0.6	0.40	RNF364K-ND	1.77	3.07	6.79	14.18	23.63
1/16 (1.60)	1.6	0.8	0.43	RNF116K-ND	1.82	3.15	6.97	14.54	24.24
3/32 (2.38)	2.4	1.2	0.51	RNF332K-ND	1.92	3.33	7.36	15.37	25.62
1/8 (3.18)	3.2	1.6	0.51	RNF018K-ND	2.06	3.57	7.89	16.47	27.46
3/16 (4.78)	4.7	2.4	0.51	RNF316K-ND	2.50	4.34	9.60	20.03	33.38
1/4 (6.35)	6.4	3.2	0.64	RNF014K-ND	3.14	5.44	12.02	25.09	41.82
3/8 (9.52)	9.5	4.8	0.64	RNF038K-ND	3.51	6.08	13.45	28.07	46.78
1/2 (12.70)	12.7	6.4	0.64	RNF012K-ND	4.36	7.56	16.73	34.92	58.19
3/4 (19.05)	19.1	9.5	0.76	RNF034K-ND	5.85	10.13	22.41	46.77	77.95
1 (25.4)	25.4	12.7	0.89	RNF001K-ND	8.90	15.43	34.11	71.19	118.66
1 1/2 (38.1)	38.1	19.1	1.02	RNF112K-ND	12.27	21.26	47.02	98.13	163.55
2 (50.8)	50.8	25.4	1.14	RNF002K-ND	15.19	26.32	58.22	121.50	202.50
3 (76.2)	76.2	38.1	1.27	RNF003K-ND	38.28	66.36	146.75	306.27	510.45
4 (101.6)	101.6	50.8	1.40	RNF004K-ND	51.04	88.48	195.67	408.36	680.59

Tubing Size Diameter‡ Inches (mm)	Min. Expand. D (mm)	Max. Recov. d (mm)	Nom. Recov. Wall Thick.† W (mm)	Digi-Key Part No.	Spool Size Feet	Price Per Spool	Raychem Part No.
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin							
3/64 (1.19)	1.2	0.6	0.40	RNF364K-100-ND	100	21.25	RFN-100-MINI-SPL-3/64-BK
1/16 (1.60)	1.6	0.8	0.43	RNF116K-75-ND	75	21.25	RFN-100-MINI-SPL-1/16-BK
3/32 (2.38)	2.4	1.2	0.51	RNF332K-65-ND	65	21.25	RFN-100-MINI-SPL-3/32-BK
1/8 (3.18)	3.2	1.6	0.51	RNF018K-60-ND	60	21.25	RFN-100-MINI-SPL-1/8-BK
3/16 (4.78)	4.7	2.4	0.51	RNF316K-50-ND	50	21.25	RFN-100-MINI-SPL-3/16-BK
1/4 (6.35)	6.4	3.2	0.64	RNF014K-40-ND	40	21.25	RFN-100-MINI-SPL-1/4-BK
3/8 (9.52)	9.5	4.8	0.64	RNF038K-35-ND	35	21.25	RFN-100-MINI-SPL-3/8-BK
1/2 (12.70)	12.7	6.4	0.64	RNF012K-30-ND	30	21.25	RFN-100-MINI-SPL-1/2-BK
3/4 (19.05)	19.1	9.5	0.76	RNF034K-25-ND	25	21.25	RFN-100-MINI-SPL-3/4-BK
1 (25.4)	25.4	12.7	0.89	RNF001K-15-ND	15	21.25	RFN-100-MINI-SPL-1-BK
Versafit - Highly Flame-retardant, Low Recovery Temperature							
3/64 (1.19)	1.63	0.6	0.40	VER364K-100-ND	100	22.08	VERSAFIT-MINI-SPL-3/64-BK
1/16 (1.60)	1.85	0.8	0.43	VER116K-75-ND	75	22.08	VERSAFIT-MINI-SPL-1/16-BK
3/32 (2.38)	2.79	1.2	0.51	VER332K-65-ND	65	22.08	VERSAFIT-MINI-SPL-3/32-BK
1/8 (3.18)	3.43	1.6	0.51	VER018K-60-ND	60	22.08	VERSAFIT-MINI-SPL-1/8-BK
3/16 (4.78)	5.21	2.4	0.51	VER316K-50-ND	50	22.08	VERSAFIT-MINI-SPL-3/16-BK
1/4 (6.35)	7.11	3.2	0.64	VER014K-40-ND	40	22.08	VERSAFIT-MINI-SPL-1/4-BK
3/8 (9.52)	10.16	4.8	0.64	VER038K-35-ND	35	22.08	VERSAFIT-MINI-SPL-3/8-BK
1/2 (12.70)	13.72	6.4	0.64	VER012K-30-ND	30	22.08	VERSAFIT-MINI-SPL-1/2-BK
3/4 (19.05)	20.45	9.5	0.76	VER034K-25-ND	25	22.08	VERSAFIT-MINI-SPL-3/4-BK
1 (25.4)	25.53	12.7	0.89	VER001K-15-ND	15	22.08	VERSAFIT-MINI-SPL-1-BK

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Versafit Heat Shrink Tubing Kits

VERSA1-KIT-ND 3/16" 30 pcs., 1/4" 28 pcs., 3/8" 24 pcs., 1/2" 20 pcs., 3/4" 14 pcs., 1" 10 pcs., Black........... **$67.66**

Refill parts:

VER316K-ND 3/16" 30 pieces, Black **$8.46**
VER014K-ND 1/4" 28 pieces, Black.................. **$8.46**
VER038K-ND 3/8" 24 pieces, Black.................. **$8.46**
VER012K-ND 1/2" 20 pieces, Black.................. **$8.46**
VER034K-ND 3/4" 14 pieces, Black.................. **$8.46**
VER001K-ND 1" 10 pieces, Black.................... **$8.64**

VERSA2-KIT-ND Color Kit includes Red, Black, Yellow, Clear, White, Green and Blue tubing.
3/32" 35 pcs. (5 of each color), 1/8" 28 pcs. (4 of each color), 3/16" 21 pcs. (3 of each color),
1/4" 21 pcs. (3 of each color), 3/8" 14 pcs. (2 of each color), 1/2" 14 pcs. (2 of each color) **$72.14**

Refill parts:

VER332M-ND 3/32" 35 pieces...................... **$8.80**
VER018M-ND 1/8" 28 pieces....................... **$8.46**
VER316M-ND 3/16" 21 pieces...................... **$8.46**
VER014M-ND 1/4" 21 pieces....................... **$8.46**
VER038M-ND 3/8" 14 pieces....................... **$8.46**
VER012M-ND 1/2" 14 pieces....................... **$8.46**

VERSA4-KIT-ND 3/16", 1/4", 3/8", 1/2", 3/4" and 1" 18 pieces (3 pieces of each size), Black **$8.46**
VERSA6-KIT-ND 3/64", 1/16", 3/32" and 1/8" 24 pieces (6 pieces of each size), Black **$8.46**

Note: All kits have 6" pieces

DABURN

Shrinkable Tubing
Black Polyolefin

The most widely used, general purpose heat shrinkable tubing. An irradiated flexible, flame-retardant polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged.

Specifications: • UL224 • CSA Approved • AMS-DTL-23053/5 • MSFC-276B • AMS 3636B • Operating Temperature: -55°C ~ 135°C • Shrinkage Ratio: To 50% of supplied diameter at 90°C • Electrical Properties: Dielectric Strength: 1300 V/mil (512 kV/cm) Volume Resistivity: 10^{15} Ω-cm • Physical Properties: Tensile Strength: 2500 PSI, nominal (176 kg/cm²) Ultimate Elongation: 400% nominal

Shrink Tubing

Digi-Key® Assortment Kit
Contains the following:
W181-5-ND W184-5-ND
W182-5-ND W185-5-ND
W183-5-ND W186-5-ND
STA-KIT-ND..........**$10.95**

Minimum Supp. I.D. Inches (mm)	Maximum Recov. I.D. Inches (mm)	Nom. Recov. Wall Thick. Inches (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'
.06 (1.60)	.03 (.78)	.017 (.43)	W181-X-ND	2.27	10.12	18.12	32.62
.09 (2.36)	.05 (1.17)	.020 (.50)	W182-X-ND	2.39	10.67	19.11	—
.13 (3.18)	.06 (1.58)	.020 (.50)	W183-X-ND	2.55	11.39	20.40	36.71
.19 (4.75)	.09 (2.36)	.020 (.50)	W184-X-ND	3.03	13.55	24.26	43.68
.25 (6.35)	.13 (3.18)	.025 (.63)	W185-X-ND	3.98	17.78	31.85	57.32
.38 (9.53)	.19 (4.75)	.025 (.63)	W186-X-ND	4.19	18.72	33.53	60.35
.50 (12.7)	.25 (6.35)	.025 (.63)	W187-X-ND	4.78	21.34	38.21	68.78
.75 (19.1)	.38 (9.53)	.030 (.76)	W188-X-ND	6.45	28.79	51.56	92.83
1.0 (25.4)	.50 (12.70)	.035 (.88)	W189-X-ND†	9.89	44.19	79.16	131.93
3.0 (76.2)	1.5 (38.10)	.050 (1.27)	W192-X-ND†	43.37	195.17	360.53	—
4.0 (101.6)	2.0 (50.80)	.055 (1.40)	W193-X-ND†	51.49	231.71	549.53	—

NOTE: Longer lengths available, call Digi-Key † Available only in listed lengths

Irradiated Polyolefin Heat Shrink

DAFLEX SH277 shrinkable irradiated polyolefin tubing is flame retardant and withstands up to 300°C (572°F) for short durations and can be hot stamped.

Specifications: • Shrink Ratio: 4:1 • Longitudinal Shrinkage: 10% maximum • Shrink Temperature: 120°C (250°F) • Continuous Operation Temperature: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/5 Class 1 and 3

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1" x 4' Black	1.0 (25.4)	.26 (6.5)	.060 (1.5)	W203-ND	68.52	91.36	205.56	411.12	742.30
2" x 4' Black	2.0 (50.8)	.50 (12.7)	.060 (1.5)	W204-ND	93.72	124.96	281.16	562.32	1015.30

Polyolefin Heat Shrink

DAFLEX SM278 is a flexible, large ratio, heat shrinkable tubing with a meltable adhesive liner. As the outer wall shrinks, the inner adhesive liner melts and flows. When cooled, it offers protection for a variety of electrical applications as well as "sealed-in" protection from chemicals and oils.

Specifications: • Shrink Ratio: 4:1 • Longitudinal Shrinkage: 10% maximum • Shrink Temperature: 120°C (250°F) • Continuous Operation Temperature: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/4 Class 3 • UL VW-1, CSA OFT (outer wall only) • Dual Wall

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'	200'
3/16" Black	.16 (4)	.04 (1)	.035 (.9)	W207-X-ND	9.21	39.36	67.00	113.90	214.40
5/16" Black	.315 (8)	.079 (2)	.035 (.9)	W208-X-ND	15.54	66.39	113.00	192.10	361.60

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1/2" Black	.47 (12)	.12 (3)	.051 (1.3)	W206-ND	11.76	22.34	52.92	119.95	232.07
3/4" Black	.63 (16)	.16 (4)	.063 (1.6)	W209-ND	14.00	26.60	63.00	142.80	276.34
1" Black	.94 (24)	.24 (6)	.083 (2.1)	W205-ND	22.48	42.71	101.16	229.30	443.72
1 1/4" Black	1.26 (32)	.31 (8)	.091 (2.3)	W210-ND	27.92	53.05	125.64	284.78	551.04

Butyl Rubber Shrink Tape

DAFLEX ST250 cold shrinking Stretch-N-Seal tape requires no heat to provide a secure covering where the size and/or shape of an object does not permit the use of shrinkable tubing. Simply remove 2" to 3" of tape from the roll, remove the liner, stretch tape to 50% of the supplied width and wrap it spirally around the object, with 50% overlap. In minutes the tape will react with itself to form a mass which will provide protection from moisture, most chemicals, over 1KV per mil. DAFLEX ST250 can be removed easily without leaving any residue since the tape does not use a mastic or adhesive liner. Shelf life is over 5 years. It is helpful for covering, sealing, splicing, holding bundles, joining and repair applications.

Specifications: • Operating Temperature: -40°C ~ 130°C • UL Approved for 100°C

Description	Nominal Width Inches (mm)	Nominal Thickness Inches (mm)	Roll Length Feet	Digi-Key Part No.	Price Each 1	5	10
Black	1.0 (25.4)	.0195 (0.50)	16	W211-ND	14.90	13.41	12.50
Black	1.0 (25.4)	.0195 (0.50)	8	W213-ND	8.60	7.74	7.12
Black	1.5 (38.1)	.0195 (0.50)	8	W215-ND	10.00	9.00	8.50
Black	1.5 (38.1)	.0195 (0.50)	16	W216-ND	17.00	15.30	14.45
Black	2.0 (50.8)	.0195 (0.50)	16	W217-ND	22.76	20.49	19.35

Qualtek
Electronics Corporation

Heat Shrink Tubing

Dual Wall, Adhesive-Lined Flexible Polyolefin Tubing

Q5-2X and Q5-3X Series

Features: • Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

Specifications: • **Operating Temperature:** -45°C ~ 125°C • **Full Recovery Temperature:** 125°C • **Approvals:** UL 224: 125°C, 600V, File No. E236137 • **Shrink Ratio:** Q5-2X Series: 2:1; Q5-3X Series: 3:1 • **Color:** Black

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered - mm			Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter	Nominal Wall Thickness	Nominal Adhesive Thickness		4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
Q5-2X Series								
1/8	3.2	1.60	0.70	0.20	Q52X018B-ND	1.27	2.20	4.86
3/16	4.8	2.40	0.70	0.20	Q52X316B-ND	1.52	2.64	5.84
1/4	6.4	3.20	0.75	0.20	Q52X014B-ND	1.86	3.23	7.13
3/8	9.5	4.80	0.75	0.20	Q52X038B-ND	2.54	4.40	9.73
1/2	12.7	6.40	0.75	0.20	Q52X012B-ND	3.47	6.01	13.29
3/4	19.1	9.50	0.90	0.20	Q52X034B-ND	5.67	9.83	21.74
1	25.4	12.70	1.10	0.20	Q52X100B-ND	8.38	14.52	32.11
1 1/2	38.1	19.00	1.10	0.20	Q52X112B-ND	13.96	24.19	53.50
Q5-3X Series								
1/8	3.0	0.60	1.00±0.10	0.50	Q53X018B-ND	1.27	2.20	4.86
3/16	4.8	1.50	1.10±0.10	0.50	Q53X316B-ND	1.52	2.64	5.84
1/4	6.0	2.00	1.20±0.10	0.50	Q53X014B-ND	1.86	3.23	7.13
3/8	9.0	3.00	1.30±0.10	0.60	Q53X038B-ND	2.54	4.40	9.73
1/2	12.0	4.00	1.70±0.15	0.80	Q53X012B-ND	3.89	6.75	14.93
3/4	19.0	6.00	2.00±0.20	0.80	Q53X034B-ND	6.17	10.70	23.67
1	24.0	8.00	2.20±0.20	1.05	Q53X100B-ND	9.73	16.86	37.28
1 1/4	30.0	10.00	2.40±0.20	1.05	Q53X114B-ND	11.68	20.24	44.76
1 1/2	40.0	13.00	2.50±0.20	1.05	Q53X112B-ND	15.73	27.27	60.31
2	50. 0	19.00	2.50±0.20	1.05	Q53X200B-ND	22.58	39.15	86.57

‡ Size before shrinking

Polyolefin Heat Shrink Tubing

Q2-F and Q2-F3X Series

Features: • Environmentally friendly flame retardant shrink tubing • Good flexibility and superior mechanical strength in such fields as electronics, communication and automobile

Specifications: • **Operating Temperature:** -55°C ~ 135°C • **Full Recovery Temperature:** 100°C • **Shrink Ratio:** Q2-F: 2:1; Q2-F3X: 3:1 • **Approvals:** UL 224: 125°C, 600V, VW-1, File No. E236137 • **Material:** No PBB's, PBBO's, PBBE's • **Cadmium Content:** <5ppm • **Lead Content:** <10ppm • **Standard Color:** Black

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		Spool Size Feet	Price Per Spool
		Maximum Inside Diameter mm	Nominal Wall Thickness mm		4' (1 pc.)	8' (2 pc.)		
Q2-F Series								
3/64	1.6	0.60	0.40±0.08	Q2F364B-ND	.36	.62	—	—
3/64	1.6	0.60	0.40±0.08	Q2F364B-100-ND	—	—	100	6.63
3/64	1.6	0.60	0.40±0.08	Q2F364B-1000-ND	—	—	1000	62.51
1/16	2.0	0.80	0.43±0.08	Q2F116B-ND	.37	.65	—	—
1/16	2.0	0.80	0.43±0.08	Q2F116B-100-ND	—	—	100	6.96
1/16	2.0	0.80	0.43±0.08	Q2F116B-1000-ND	—	—	1000	65.64
3/32	3.1	1.20	0.51±0.08	Q2F332B-ND	.41	.71	—	—
3/32	3.1	1.20	0.51±0.08	Q2F332B-100-ND	—	—	100	7.62
3/32	3.1	1.20	0.51±0.08	Q2F332B-500-ND	—	—	500	35.94
1/8	3.7	1.60	0.51±0.08	Q2F018B-ND	.44	.77	—	—
1/8	3.7	1.60	0.51±0.08	Q2F018B-100-ND	—	—	100	8.28
1/8	3.7	1.60	0.51±0.08	Q2F018B-500-ND	—	—	500	39.07
3/16	5.2	2.40	0.51±0.08	Q2F316B-ND	.63	1.09	—	—
3/16	5.2	2.40	0.51±0.08	Q2F316B-100-ND	—	—	100	11.76
3/16	5.2	2.40	0.51±0.08	Q2F316B-500-ND	—	—	500	55.48
1/4	6.8	3.20	0.64±0.08	Q2F014B-ND	.79	1.37	—	—
1/4	6.8	3.20	0.64±0.08	Q2F014B-100-ND	—	—	100	14.74
1/4	6.8	3.20	0.64±0.08	Q2F014B-500-ND	—	—	500	69.54
5/16	8.8	4.00	0.64±0.08	Q2F516B-ND	.91	1.59	—	—
5/16	8.8	4.00	0.64±0.08	Q2F516B-100-ND	—	—	100	17.06
5/16	8.8	4.00	0.64±0.08	Q2F516B-250-ND	—	—	250	40.24
3/8	10.7	4.80	0.64±0.08	Q2F038B-ND	1.07	1.86	—	—
3/8	10.7	4.80	0.64±0.08	Q2F038B-100-ND	—	—	100	20.05
3/8	10.7	4.80	0.64±0.08	Q2F038B-250-ND	—	—	250	47.27
1/2	13.7	6.40	0.64±0.08	Q2F012B-ND	1.33	2.31	—	—
1/2	13.7	6.40	0.64±0.08	Q2F012B-100-ND	—	—	100	24.85
1/2	13.7	6.40	0.64±0.08	Q2F012B-200-ND	—	—	200	46.88
5/8	16.7	8.00	0.76±0.08	Q2F058B-ND	2.07	3.59	—	—
5/8	16.7	8.00	0.76±0.08	Q2F058B-50-ND	—	—	50	19.30
5/8	16.7	8.00	0.76±0.08	Q2F058B-200-ND	—	—	200	72.83
3/4	20.5	9.50	0.76±0.08	Q2F034B-ND	2.44	4.22	—	—
3/4	20.5	9.50	0.76±0.08	Q2F034B-50-ND	—	—	50	22.69
3/4	20.5	9.50	0.76±0.08	Q2F034B-200-ND	—	—	200	85.64
1	26.5	12.70	0.89±0.12	Q2F100B-ND	3.46	5.99	—	—
1	26.5	12.70	0.89±0.12	Q2F100B-50-ND	—	—	50	32.22
1	26.5	12.70	0.89±0.12	Q2F100B-200-ND	—	—	200	121.58
Q2-F3X Series								
1/16	1.6	0.5	0.45	Q2F3X116B-ND	.39	.67	—	—
1/16	1.6	0.5	0.45	Q2F3X116B-100-ND	—	—	100	6.79
1/16	1.6	0.5	0.45	Q2F3X116B-500-ND	—	—	500	35.94
1/8	3.2	1.0	0.55	Q2F3X018B-ND	.48	.83	—	—
1/8	3.2	1.0	0.55	Q2F3X018B-100-ND	—	—	100	9.19
1/8	3.2	1.0	0.55	Q2F3X018B-500-ND	—	—	500	44.54
3/16	4.8	1.5	0.60	Q2F3X316B-ND	1.37	2.38	—	—
3/16	4.8	1.5	0.60	Q2F3X316B-100-ND	—	—	100	13.21
3/16	4.8	1.5	0.60	Q2F3X316B-250-ND	—	—	250	30.39
1/4	6.4	2.0	0.65	Q2F3X014B-ND	.94	1.63	—	—
1/4	6.4	2.0	0.65	Q2F3X014B-100-ND	—	—	100	18.02
1/4	6.4	2.0	0.65	Q2F3X014B-250-ND	—	—	250	43.76
3/8	9.5	3.0	0.75	Q2F3X038B-ND	1.28	2.22	—	—
3/8	9.5	3.0	0.75	Q2F3X038B-100-ND	—	—	100	24.63
3/8	9.5	3.0	0.75	Q2F3X038B-250-ND	—	—	250	59.78
1/2	12.7	4.0	0.80	Q2F3X012B-ND	1.60	2.77	—	—
1/2	12.7	4.0	0.80	Q2F3X012B-50-ND	—	—	50	15.37
1/2	12.7	4.0	0.80	Q2F3X012B-150-ND	—	—	150	44.75
3/4	19.1	6.0	0.90	Q2F3X034B-ND	2.99	5.19	—	—
3/4	19.1	6.0	0.90	Q2F3X034B-50-ND	—	—	50	28.72
3/4	19.1	6.0	0.90	Q2F3X034B-150-ND	—	—	150	83.65
1	25.4	8.0	1.20	Q2F3X100B-ND	4.21	7.30	—	—
1	25.4	8.0	1.20	Q2F3X100B-50-ND	—	—	50	40.47
1 1/2	39.0	13.0	1.25	Q2F3X112B-ND	7.63	13.22	—	—
1 1/2	39.0	13.0	1.25	Q2F3X112B-50-ND	—	—	50	71.06
1 1/2	39.0	13.0	1.25	Q2F3X112B-150-ND	—	—	150	213.22

‡ Size before shrinking

Heat Shrink Tubing Kits

Q2-F and Q2-Z Series

Q2Z1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black
3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) **$23.71**

Q2Z2-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black
5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) **$32.31**

Q2F1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black
3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) **$25.94**

Q2F8-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black
5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) **$35.56**

Q2F15-KIT-ND - Heat Shrink Kit 4 Includes: 141 pieces, 6" Lengths, Assorted Colors
1/16" (39 pcs.), 1/8" (31 pcs.), 1/4" (23 pcs.), 3/8" (19 pcs.), 1/2" (19 pcs.), 1" (10 pcs.) **$40.58**

Refill Bags

Description	Digi-Key Part No.	Price Each
Refill Bags for Q2F Kit 1		
3/64", 40 pieces (consists of 6" pieces), Black	Q2F2-KIT-ND	1.53
1/16", 36 pieces (consists of 6" pieces), Black	Q2F3-KIT-ND	1.44
3/32", 32 pieces (consists of 6" pieces), Black	Q2F4-KIT-ND	1.40
1/8", 28 pieces (consists of 6" pieces), Black	Q2F5-KIT-ND	1.33
3/16", 24 pieces (consists of 6" pieces), Black	Q2F6-KIT-ND	1.62
1/4", 20 pieces (consists of 6" pieces), Black	Q2F7-KIT-ND	1.69
Refill Bags for Q2F Kit 2		
5/16", 18 pieces (consists of 6" pieces), Black	Q2F9-KIT-ND	1.76
3/8", 16 pieces (consists of 6" pieces), Black	Q2F10-KIT-ND	1.84
1/2", 14 pieces (consists of 6" pieces), Black	Q2F11-KIT-ND	2.00
5/8", 14 pieces (consists of 6" pieces), Black	Q2F12-KIT-ND	3.11
3/4", 12 pieces (consists of 6" pieces), Black	Q2F13-KIT-ND	3.13
1", 8 pieces (consists of 6" pieces), Black	Q2F14-KIT-ND	2.96
Refill Bags for Q2F Kit 4		
1/16, 39 pieces (consists of 6" pieces), Assorted Colors	Q2F16-KIT-ND	1.57
1/8", 31 pieces (consists of 6" pieces), Assorted Colors	Q2F17-KIT-ND	1.45
1/4", 23 pieces (consists of 6" pieces), Assorted Colors	Q2F18-KIT-ND	1.84
3/8", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F19-KIT-ND	2.00
1/2", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F20-KIT-ND	2.17
1", 10 pieces (consists of 6" pieces), Assorted Colors	Q2F21-KIT-ND	3.22

Modified Thin Wall Flexible Kynar® (PVDF) Heat Shrink Tubing - Q-150K Series

Features: • Excellent flame retardant heat shrinkable polyvinylidene fluoride tubing • Outstanding abrasion and cut-through resistance • Superior chemical and solvent resistant properties • Available in clear and black

Specifications: • **Operating Temperature:** -55°C ~ 150°C • **Full Recovery Temperature:** 175°C • **Shrink Ratio:** 2:1 • **Approvals:** UL 224: 150°C, 600V, File No. E245010

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Color	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter mm	Wall Thickness mm			4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
3/64	1.2	0.6 0	0.25±0.05	Clear	QKY364C-ND	1.48	2.56	5.67
3/64	1.2	0.6 0	0.25±0.05	Black	QKY364B-ND	1.48	2.56	5.67
1/16	1.6	0.80	0.25±0.05	Clear	QKY116C-ND	1.65	2.86	6.33
1/16	1.6	0.80	0.25±0.05	Black	QKY116B-ND	1.65	2.86	6.33
3/32	2.4	1.20	0.27±0.04	Clear	QKY332C-ND	2.09	3.62	8.00
3/32	2.4	1.20	0.27±0.04	Black	QKY332B-ND	2.09	3.62	8.00
1/8	3.2	1.60	0.27±0.04	Clear	QKY018C-ND	2.52	4.37	9.67
1/8	3.2	1.60	0.27±0.04	Black	QKY018B-ND	2.52	4.37	9.67
3/16	4.8	2.40	0.27±0.04	Clear	QKY316C-ND	3.57	6.18	13.67
3/16	4.8	2.40	0.27±0.04	Black	QKY316B-ND	3.57	6.18	13.67
1/4	6.4	3.20	0.33±0.05	Clear	QKY014C-ND	4.35	7.54	16.67
1/4	6.4	3.20	0.33±0.05	Black	QKY014B-ND	4.35	7.54	16.67
3/8	9.5	4.80	0.33±0.05	Clear	QKY038C-ND	6.61	11.46	25.34
3/8	9.5	4.80	0.33±0.05	Black	QKY038B-ND	6.61	11.46	25.34
1/2	12.7	6.40	0.33±0.05	Clear	QKY012C-ND	8.87	15.38	34.02
1/2	12.7	6.40	0.33±0.05	Black	QKY012B-ND	8.87	15.38	34.02
3/4	19.1	9.50	0.43±0.07	Clear	QKY034C-ND	15.49	26.84	59.36
3/4	19.1	9.50	0.43±0.07	Black	QKY034B-ND	15.49	26.84	59.36
1	25.4	12.70	0.48±0.07	Clear	QKY100C-ND	22.44	38.90	86.02
1	25.4	12.70	0.48±0.07	Black	QKY100B-ND	22.44	38.90	86.02

‡ Size before shrinking

Panasonic® Micro Speakers

Features:

- Thin and lightweight design • High efficiency and high fidelity sound • High reliability

Recommended Applications:

- Compact AV equipment • Electronic office equipment • Information and communication equipment

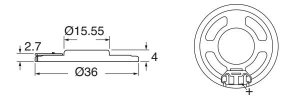

Dim. in mm

Outer Dim. (mm)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	25	100	Panasonic Part No.
36	0.5	8	Full Range	84	8	P10175-ND	6.70	5.39	4.91	EAS-3P127A

Small Size General Purpose Speakers

Features: • Wide frequency range • Apply to wide variety of needs • Wide range of product selection
Recommended Applications: • CD-radio-cassette recorders • Information and communication equipment

Fig. 1

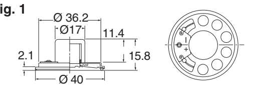

Fig. 2

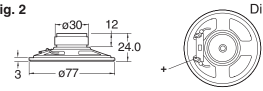

Dim. in mm

Fig.	Outer Dim. (mm)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Pressure Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	25	100	Panasonic Part No.
1	45	0.10	8	530 ~ 3000	92	25	P9605-ND	5.43	4.36	3.98	EAS-4P15SA
2	77	0.63	8	185 ~ 4000	93	68	P9607-ND	4.29	3.46	3.15	EAS-8P29SG

CUI INC Ferrite Magnet Speakers

These low cost ferrite speakers are ideal for general applications such as information and communications equipment, portable audio equipment, and industrial use. Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Fig. 1 — Ferrite Magnet - Round Frame Type

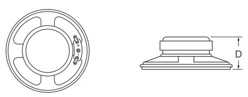

Fig. 2 — Ferrite Magnet - Square Frame Type

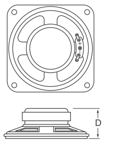

Fig. 3

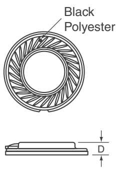

Fig.	Diameter Cone (mm)	Depth D (mm)	Impedance (Ω)	Frequency Range (Hz)	Input (W) Norm.	Input (W) Max.	S.P.L. (dB)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Part No.
Paper Cone Type													
1	50	17.5	8	20 ~ 5.9k	0.25	0.5	87	GF0501-ND◆	3.35	2.68	2.35	2.24	GF0501
	57	18.5	8	20 ~ 8.1k	0.25	0.5	86	GF0571-ND◆	3.35	2.68	2.35	2.24	GF0571
	57	27.5	8	20 ~ 21k	3	5	92	GF0573-ND◆	4.60	3.68	3.22	3.07	GF0573
	66	20	8	20 ~ 8k	0.3	0.5	86	GF0661-ND◆	3.85	3.08	2.70	2.57	GF0661
	77	24	8	20 ~ 10k	1	2	92	GF0771-ND◆	3.95	3.16	2.77	2.64	GF0771
	92	28.5	8	20 ~ 13k	2	3	93	GF0922-ND	4.45	3.56	3.12	2.97	GF0922
2	50	18	8	20 ~ 7.2k	0.25	0.5	90	GF0506-ND◆	3.40	2.72	2.38	2.27	GF0506
	57	18.5	8	20 ~ 8.1k	0.25	0.5	86	GF0576-ND◆	3.40	2.72	2.38	2.27	GF0576
	66	29	8	20 ~ 20k	3	5	90	GF0668-ND◆	5.03	4.02	3.52	3.35	GF0668
	77	31	8	250 ~ 15k	3	5	95	GF0778-ND◆	5.05	4.04	3.54	3.37	GF0778B
	87	34	8	20 ~ 18k	2	3	99	GF0876-ND◆	5.53	4.42	3.87	3.69	GF0876
	92	28.5	8	20 ~ 13k	2	3	93	GF0927-ND◆	5.03	4.02	3.52	3.35	GF0927
	102	36.5	8	20 ~ 17k	6	10	93	GF1004-ND◆	6.93	5.54	4.85	4.62	GF1004
	102	50.5	8	20 ~ 10k	20	40	90	GF1004H-ND◆	10.80	8.64	7.56	7.20	GF1004H
Mylar Cone Type (Weather Resistant) — RoHS Compliant													
1	40	9.6	8	136 ~ 2.8k	0.1	0.2	110	GF0401M-ND	3.28	2.62	2.30	2.19	GF0401M
	50	17.5	8	20 ~ 5.8k	0.25	0.5	86	GF0501M-ND	4.03	3.22	2.82	2.69	GF0501M
	57	18.5	8	20 ~ 14k	0.25	0.5	86	GF0571M-ND	4.03	3.22	2.82	2.69	GF0571M
	66	20	8	20 ~ 10k	0.5	1	88	GF0661M-ND	4.30	3.44	3.01	2.87	GF0661M
	77	24	8	20 ~ 11k	1	2	90	GF0771M-ND	4.50	3.60	3.15	3.00	GF0771M
2	66	19.5	8	20 ~ 12k	0.5	1	83	GF0666M-ND	4.35	3.48	3.05	2.90	GF0666M
	77	24	8	20 ~11k	1	2	91	GF0776M-ND	4.60	3.68	3.22	3.07	GF0776M
	102	36.2	8	20 ~ 13k	3	5	93	GF1003M-ND	6.18	4.94	4.33	4.12	GF1003M
	102	36.5	8	20 ~ 14k	6	10	93	GF1004M-ND	7.60	6.08	5.32	5.07	GF1004M
3	13	2	8	0 ~ 20k	0.2	0.4	80	CDMG13008L-02-ND	1.95	1.78	1.60	1.42	CDMG13008L-02
	15	2.8	8	0 ~ 20k	0.3	0.5	91	CDMG15008-03A-ND	1.87	1.70	1.53	1.36	CDMG15008-03A
	16	2.55	8	0 ~ 20k	0.3	0.5	82	CDMG16008-03-ND	1.84	1.68	1.51	1.34	CDMG16008-03

◆ *RoHS Compliant*

Miniature Monitor Speakers

These miniature speakers deliver high output power and full range sound in a very small package. Additional magnetic shielding on the back also significantly reduces flux leakage. Ideal for small monitors and televisions, portable sound equipment, or anywhere else you need powerful sound in a small space.

Dimensions (mm) W	L	T	Impedance (Ω)	Frequency Range (Hz)	Input Power (W) Norm.	Max.	SPL (dB)	Digi-Key Part No.	Pricing 1	10	50	100	CUI Part No.
20	20	9.5	8	530 ~ 20k	2	4	80	102-1299-ND	5.15	41.20	180.25	343.20	CMS0201KLX
23	23	10.2	8	380 ~ 20k	2	4	81	102-1300-ND	5.18	41.40	181.13	344.86	CMS0231KLX
28	28	11.2	8	310 ~ 20k	2	4	82	102-1301-ND	5.35	42.80	187.25	356.52	CMS0281KLX
32	32	14.5	8	250 ~ 15k	2	4	86	102-1302-ND	6.28	50.20	219.63	418.17	CMS0321KLX
34	34	14.5	8	260 ~ 20k	2	4	84	102-1303-ND	6.38	51.00	223.13	424.83	CMS0341KLX
36	36	14.5	8	230 ~ 20k	2	4	82	102-1304-ND	6.53	52.20	228.38	434.83	CMS0361KLX
40.1	40.1	14.5	8	270 ~ 20k	4	6	88	102-1305-ND	8.13	65.00	284.38	541.45	CMS0401KL-1X
40.1	40.1	14.5	8	440 ~ 20k	5	8	88	102-1306-ND	8.35	66.80	292.25	556.44	CMS0401KL-3X

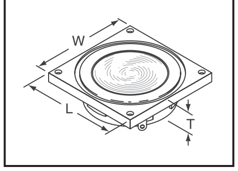

Notebook Speakers

Features: • Low profile rectangular design • Lightweight rugged resin frame • Wide frequency range • Low resonant frequency
Recommended Applications: • Notebook Computers • Portable communication equipment • Multimedia equipment.

Dim. in mm

Fig. 1

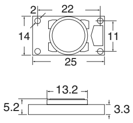

Fig. 2

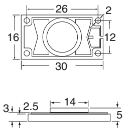

Fig. 3

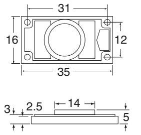

Fig. 4

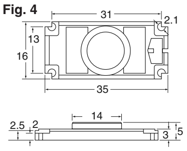

Fig. 5

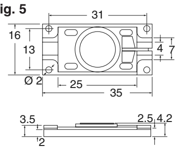

Fig. 6

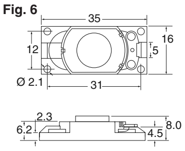

Fig. 7

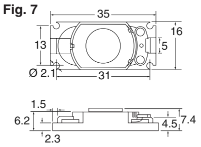

Fig. 8

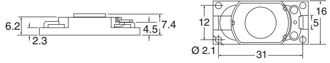

Fig. 9

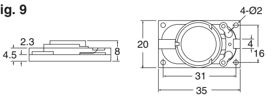

Fig. 10

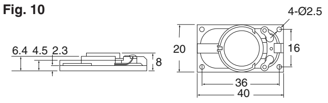

Fig. 11

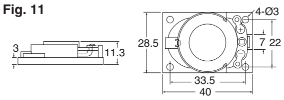

Fig.	Size (mm)	Depth (mm)	Frame Style	Resonant Freq. Hz ±20%	Frequency Range (Hz)	Impedance (Ω)	Power (W) Input Normal	Maximum	Magnet Size (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Part No.
1	14 x 25	5.2	Plastic	600	600 ~ 20k	8	1.0	1.5	7.9 x 1.3	GC0251K-ND	4.15	3.32	2.91	2.77	GC0251K
2	16 x 30	5.0	Plastic	500	500 ~ 4k	8	0.5	1.0	7.9 x 1.3	GC0301K-ND	4.23	3.38	2.96	2.82	GC0301K
3	16 x 35	5.0	Plastic	650	650 ~ 20k	8	1.0	1.5	7.9 x 1.3	GC0351M-ND	3.90	3.12	2.73	2.60	GC0351M
4	16 x 35	5.0	Plastic	650	650 ~ 20k	8	1.0	1.5	7.9 x 1.3	GC0351M-3-ND	3.90	3.12	2.73	2.60	GC0351M-3
5	16 x 35	4.2	Plastic	650	650 ~ 20k	8	1.0	1.5	7.9 x 1.0	GC0351N-ND	3.90	3.12	2.73	2.60	GC0351N
6	16 x 35	8.0	Plastic	550	500 ~ 13k	8	1.0	2.0	8.0 x 2.0	GC0351P-ND	4.98	3.98	3.49	3.32	GC0351P
7	16 x 35	7.4	Plastic	630	630 ~ 13k	4	1.0	2.0	8.1 x 1.4	GC0351P-1-ND	4.98	3.98	3.49	3.32	GC0351P-1
8	16 x 35	7.4	Plastic	630	630 ~ 13k	4	1.0	2.0	8.1 x 1.4	GC0351P-3-ND	4.98	3.98	3.49	3.32	GC0351P-3
9	20 x 35	8.0	Plastic	550	550 ~ 11k	8	1.0	1.5	11.0 x 1.5	GC0351K-ND	4.68	3.74	3.28	3.12	GC0351K
10	20 x 40	8.0	Plastic	550	550 ~ 12k	8	1.0	1.5	11.0 x 1.5	GC0401S-ND	5.10	4.08	3.57	3.40	GC0401S
11	28.5 x 40	11.3	Plastic	390	390 ~ 20k	8	1.0	2.0	12.5 x 1.8	GC0401K-ND	5.10	4.08	3.57	3.40	GC0401K

CUI INC

Low Profile Speakers with 6” Wire Leads

These low profile speakers deliver big sound in small spaces. Delivering high reliability and a full range of sound, these items are ideal for many applications such as portable communications equipment, compact A/V equipment and information equipment.

Fig. 1

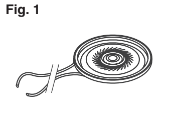

Fig. 2

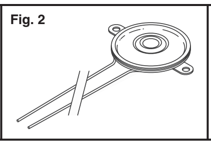

Fig. 3

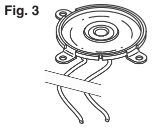

Fig.	Diameter Cone (mm)	Depth (mm)	Impedance (Ω)	Input (W) Normal	Input (W) Maximum	S.P.L. (dB)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Part No.
1	20	3.8	8	0.5	1	82	102-1552-ND	3.10	2.48	2.17	2.07	CLS0201MA-L152
	23	5	8	0.5	1	89	102-1553-ND	3.20	2.56	2.24	2.14	CLS0231MA-1-L152
	23	5.7	8	1	1.5	89	102-1561-ND	3.90	3.12	2.73	2.60	CLS0231-L152
	27	5.8	8	0.1	0.2	89	102-1554-ND	2.70	2.16	1.89	1.80	CLS0271M-L152
	28	5	8	0.5	1	85	102-1555-ND	3.60	2.88	2.52	2.40	CLS0282MA-L152
	28	5.8	8	1	3	82	102-1562-ND	3.80	3.04	2.66	2.54	CLS0281-L152
	30	4	8	0.2	0.4	89	102-1556-ND	3.45	2.76	2.42	2.30	CLS0301MA-L152
	30	5.9	8	1	2	86	102-1563-ND	4.15	3.32	2.91	2.77	CLS0301-L152
	36	5	8	0.5	1	89	102-1550-ND	3.60	2.88	2.52	2.40	CLS0362MA-1-L152
	36	6.2	8	2	3	88	102-1564-ND	4.70	3.76	3.29	3.14	CLS0361-L152
	38	9.7	8	0.2	0.4	80	102-1537-ND	4.98	3.98	3.49	3.32	CLS0381M-L152
	40	5.3	8	0.5	1	90	102-1551-ND	4.00	3.20	2.80	2.67	CLS0402MA-1-L152
	40	9.7	8	0.2	0.5	80	102-1538-ND	4.98	3.98	3.49	3.32	CLS0401M-L152
	45	9	8	0.2	0.5	82	102-1539-ND	4.98	3.98	3.49	3.32	CLS0451M-L152
	50	9	8	0.2	0.5	80	102-1540-ND	5.13	4.10	3.59	3.42	CLS0501M-L152
	57	11.8	8	0.2	0.5	89	102-1541-ND	5.13	4.10	3.59	3.42	CLS0571M-L152
2	26	4.6	8	0.5	1	88	102-1558-ND	3.70	2.96	2.59	2.47	CLS0261MAE-L152
	28	5.2	8	2	4	87	102-1559-ND	3.58	2.86	2.51	2.39	CLS0281MAE-L152
	40	5	4	1	2	91	102-1560-ND	4.00	3.20	2.80	2.67	CLS0401MAE-L152
3	23	3.6	32	0.2	0.4	84	102-1557-ND	3.43	2.74	2.40	2.29	CLS0231MA3E-L152

PC Mount Speakers

These PC mount speakers offer the advantages of a versatile low profile speaker with the convenience of a conventional PC mount package. They are well suited for a wide range of portable products and information equipment applications.

Diameter Cone (mm)	Depth (mm)	Impedance (Ω)	Input (W) Normal	Input (W) Maximum	S.P.L. (dB) @ 50cm	Digi-Key Part No.	Price Each 1	10	50	100	CUI Part No.
20	4.2	8	0.1	0.2	116	102-1542-ND†	2.98	2.38	2.09	1.99	CLS0201MP
23	5.0	8	0.1	0.2	72	102-1543-ND	3.05	2.44	2.14	2.04	CLS0231MP-1
25	5.6	8	0.1	0.2	70	102-1544-ND	2.34	2.13	1.92	1.70	CLF0251MP
28	4.2	8	0.2	0.3	82	102-1545-ND	3.05	2.44	2.14	2.04	CLS0281MP
30	3.9	8	0.2	0.3	78	102-1546-ND	3.33	2.66	2.33	2.22	CLS0301MP-1
38	9.4	8	0.25	0.4	93	102-1549-ND	2.85	2.28	2.00	1.90	CLF0381MP-1

† S.P.L (dB) @1cm

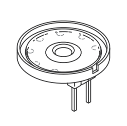

pui audio inc
a projects unlimited company

PC Mount Speakers — Surface Mount and Thru-hole

Fig. 1

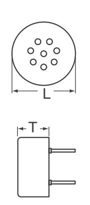

Fig. 2

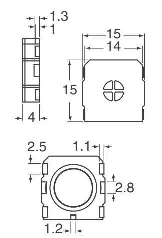

Fig. 3

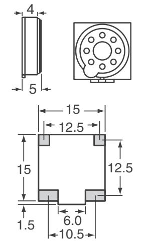

Fig. 4 ***NEW!***

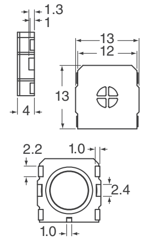

Dim. in mm

Fig.	Dimensions mm L	T	Impedance (Ω)	Frequency Range (Hz)	Input Power (W) Nom.	Max.	SPL (dB)	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
1	15	7.5	8	1,700 ~ 20k	0.3	0.5	87	668-1132-ND	3.95	3.16	2.61	AST-01508MR-R
	15	7.5	32	2,100 ~ 20k	0.3	0.5	87	668-1133-ND	3.95	3.16	2.61	AST-01532MR-R
	17	8.0	8	1,500 ~ 20k	0.2	0.5	87	668-1134-ND	3.95	3.16	2.61	AST-01708MR-R
	23	8.5	8	600 ~ 20k	0.08	0.15	75	668-1135-ND	2.90	2.32	1.92	AST-02308MR-R
	29.9	12.5	8	500 ~ 20k	0.15	0.2	72	668-1136-ND	3.20	2.56	2.12	AST-03008MR-R
	30	12.5	32	1,700 ~ 20k	0.1	0.2	81	668-1137-ND	3.20	2.56	2.12	AST-03032MR-R
	29.7	12.7	100	1,200 ~ 10k	0.15	0.3	80	668-1138-ND	3.20	2.56	2.12	AST-030C0MR-R
	31.9	15.1	8	500 ~ 20k	0.1	0.2	82	668-1139-ND	2.63	2.10	1.74	AST-03208MR-R
	17	8.0	32	1,700 ~ 20k	0.2	0.5	90	668-1140-ND	3.95	3.16	2.61	AST-1732MR-R
2	—	—	8	500 ~ 10k	0.5	0.8	87	668-1142-1-ND†	10.40	8.17	5.94	SMS-1508MS-R
	—	—	8	500 ~ 10k	0.5	0.8	87	668-1142-2-ND‡	2584.20/600			SMS-1508MS-R
3	—	—	8	850 ~ 20k	0.3	0.5	87	668-1141-1-ND†	10.40	8.17	5.94	SMS-1508-2-R
	—	—	8	850 ~ 20k	0.3	0.5	87	668-1141-2-ND‡	2584.20/600			SMS-1508-2-R
4	—	—	8	400 ~ 20k	0.7	1.0	88	668-1206-1-ND† ***NEW!***	10.40	8.17	5.94	SMS-1308MS-R
	—	—	8	400 ~ 20k	0.7	1.0	88	668-1206-2-ND‡ ***NEW!***	2584.20/600			SMS-1308MS-R

† Cut Tape ‡ Tape and Reel

Water Resistant Acoustic Speakers

Fig. 1

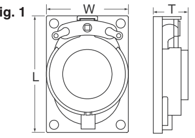

Fig. 2

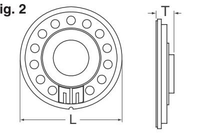

Fig. 3

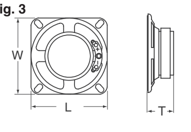

Fig. 4

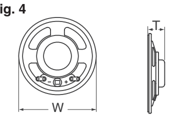

Fig. 5

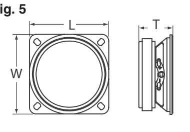

Fig. 6

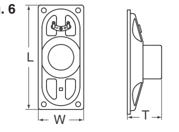

Fig.	Dimensions — mm L	W	T	Impedance (Ω)	Frequency Range (Hz)	Input Power (W) Nom.	Max.	SPL (dB)	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
1	27	20.5	6.0	8	250 ~ 20k	1	3	80	668-1112-ND	4.55	3.64	3.01	AS02708CO-WR-R
	40	28.4	13	4	200 ~ 20k	2	3	87	668-1113-ND	5.58	4.46	3.68	AS04004PO-WR-R
	40	28.3	11.5	8	450 ~ 20k	1	2	84	668-1114-ND	5.58	4.46	3.68	AS04008PO-2-WR-R
	40	28.3	11.5	8	380 ~ 20k	2	4	84	668-1116-ND	5.58	4.46	3.68	AS04008PS-4W-WR-R
2	40	—	6.6	8	700 ~ 4,750	0.5	0.8	92	668-1115-ND	3.85	3.08	2.55	AS04008PR-WR-R
3	77	77	25.5	8	270 ~ 8k	4	8	90	668-1126-ND	4.93	3.94	3.26	AS07708PS-2-WR-R
4	—	50	10.6	4	800 ~ 5k	1.5	3	85	668-1117-ND	4.33	3.46	2.86	AS05004PR-2-WR-R
	—	50	12	8	550 ~ 5k	1	1.5	84	668-1119-ND	4.33	3.46	2.86	AS05008PR-WR-R
5	66.3	66.3	29	8	230 ~ 12k	4	5	95	668-1121-ND	7.23	5.78	4.77	AS06608PS-WR-R
6	70	30.5	23	4	100 ~ 20k	2	5	86	668-1122-ND	5.03	4.02	3.32	AS07004PO-WR-R
	71	41	25	4	100 ~ 20k	3	5	86	668-1124-ND	5.03	4.02	3.32	AS07104PO-WR-R
	71	41	25	8	100 ~ 20k	3	5	86	668-1125-ND	5.03	4.02	3.32	AS07108PO-WR-R
	70	30.5	23	8	300 ~ 20k	2	5	86	668-1211-ND ***NEW!***	5.03	4.02	3.32	AS07008PO-2-WR-R

NEW! Multi-layer Piezo Speakers

PUI Audio announces a type of speaker that reproduces sound, voice or music and it’s only 1mm deep. This multi-layered piezo speaker is available in two different types; one is frame mounted for use in open air applications and one with double-sided tape that is used for flat panel mounting. Both types offer a frequency range of 300 ~ 20000Hz along with the low current draw of traditional piezo devices. The small size allows them to be mounted where other devices are too thick such as touch panels displays, camera equipment or other hand held devices.

Fig.	Resonant Frequency (Hz)	Frequency Range (Hz)	Input Voltage Nom.	Max.	SPL (dB)	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
1	1,400	300 ~ 20k	3Vrms	10Vp-p	75	668-1208-ND	5.50	4.40	3.63	APS2714S-R
2	1,800	300 ~ 20k	3Vrms	10Vp-p	75	668-1209-ND†	5.50	4.40	3.63	APS2718S-T-R

† Double-sided tape

Dim. in mm

Fig. 1

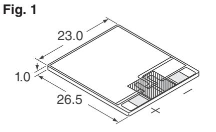

Fig. 2

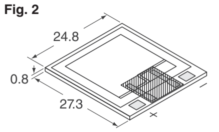

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MALLORY
MALLORY SONALERT PRODUCTS, INC.

NEW! Miniature Speaker Series

RoHS COMPLIANT

Features:
- Mylar Cone (Water and Fluid Resistant)
- Plastic and Metal Frames Available
- Compact Size; Wide Frequency Response

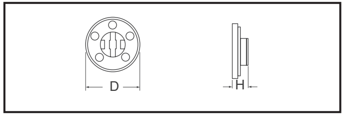

Dimensions (mm)		Impedance	Frequency Range	Input Power (W)		SPL	Digi-Key	Price Each				Mallory
D	H	(Ω)	(kHz)	Nom.	Max.	(dB)	Part No.	1	10	25	50	Part No.
11	4.5	8	1.6 ~ 9.0	0.25	0.30	75	458-1119-ND	2.74	2.28	1.97	1.83	PSR-11N08S-JQ
13	5.0	8	1.8 ~ 7.0	0.25	0.30	75	458-1120-ND	3.02	2.52	2.17	2.02	PSR-13N08A-JQ
18	3.0	8	1.8 ~ 4.0	0.25	0.30	84	458-1121-ND	3.12	2.61	2.24	2.09	PSR-18N08A-JQ
20	5.0	8	1.3 ~ 6.0	0.25	0.30	80	458-1122-ND	.96	.80	.69	.64	PSR-20F08S-JQ
20	3.0	8	0.9 ~ 5.0	0.25	0.30	80	458-1123-ND	3.12	2.61	2.24	2.09	PSR-20N08A-JQ
23	5.0	8	0.9 ~ 6.5	0.25	0.30	81	458-1124-ND	.86	.72	.62	.58	PSR-23F08S-JQ
23	3.7	8	1.0 ~ 5.0	0.25	0.30	83	458-1125-ND	3.26	2.72	2.34	2.18	PSR-23N08S-JQ
27	5.0	8	0.75 ~ 7.0	0.25	0.50	84	458-1126-ND	2.55	2.13	1.83	1.70	PSR-27N08S01-JQ
28	4.3	8	0.7 ~ 8.0	0.25	0.50	89	458-1127-ND	2.41	2.02	1.73	1.61	PSR-28N08A-JQ
29	9.0	8	0.8 ~ 4.5	0.25	0.50	84	458-1128-ND	1.12	.93	.80	.75	PSR-29F08S02-JQ
36	4.8	8	0.55 ~ 7.0	0.25	0.50	89	458-1129-ND	3.04	2.54	2.19	2.03	PSR-36N08A-JQ
40	7.5	8	0.8 ~ 5.0	0.25	0.50	86	458-1130-ND	1.43	1.20	1.03	.96	PSR-40F08S02-JQ
40	5.0	8	0.5 ~ 5.0	0.25	0.50	89	458-1131-ND	2.70	2.26	1.94	1.81	PSR-40N08A05-JQ
40	4.8	8	0.5 ~ 6.0	0.25	0.50	87	458-1132-ND	2.70	2.26	1.94	1.81	PSR-40N08A-JQ
45	4.8	8	0.4 ~ 6.0	0.25	0.30	88	458-1133-ND	2.80	2.34	2.01	1.87	PSR-45N08A-JQ
50	10.5	8	0.5 ~ 5.0	0.25	0.50	91	458-1134-ND	1.65	1.38	1.19	1.11	PSR-50F08S-JQ
57	12.5	8	0.35 ~ 5.0	0.25	0.50	90	458-1135-ND	1.75	1.47	1.26	1.17	PSR-57F08S02-JQ
57	7.0	8	0.6 ~ 4.0	0.25	1.0	92	458-1136-ND	3.11	2.60	2.24	2.08	PSR-57N08A01-JQ

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molex®

NEW! Evaldi™ Earphones

RoHS COMPLIANT

They aim to provide "3-Dimensional" sound that is equivalent to listening to a set of high-end home stereo speakers. The secret is in our patented airstream-control technologies that enable the transmission of both sharper high tones and lower bass sounds without interference. This line also provides superior comfort and ways to customize your sound experience. An inclined stem with elliptical shape is employed to better fit ear canals, while a choice of ear pads provides users different levels of bass and noise isolation. Includes Y-type cable.

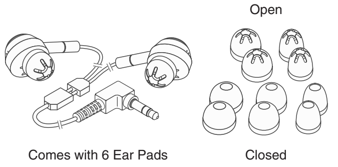

Frequency Response	Impedance (Ω)	Power (W)	Termination	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	50	
20Hz ~ 20kHz	16	0.05	3.5mm Diameter Plug	WM2582-ND	19.99	179.90	747.50	5037000100

Panasonic®

Piezoelectric Ceramic Buzzer Units

RoHS COMPLIANT

Applications: • Smoke Detectors • Alarms • Detectors • Home Appliances • Radio Beepers • Electronic Games • Keyboard Signalers • Cameras • Telephone Ringers
Features: • Low power consumption • Long life and no noise due to non-contact • Thin thickness buzzer element • External drive type • Covering wide frequency range • No magnetic field is generated • High sound pressure level

Dim. in mm

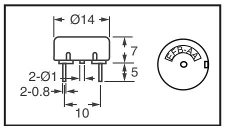

Sound Pressure Level	Capacitance @1kHz	Input Voltage	Digi-Key Part No.	Pricing						Panasonic Part No.
				1	25	100	250	500	1,000	
74dB min. @ (15Vp-p, 4kHz Sq. Wave)	8,500pF	25Vp-p	P9900-ND	5.38	108.07	393.87	888.60	1594.67	2689.80	EFB-AA14D001

NOTE: Buzzers are non-washable.

Ultrasonic Ceramic Sensor/Transducer

Ultrasonic Ceramic Sensor consisting of a disc/bimorph type piezoelectric ceramic vibrator that is used as a sensor for transmitting and receiving ultrasonics in the air. Since the ultrasonic sensor has a resonance type vibrator, it is high in sensitivity and has outstanding sound pressure level. It has wide applications for burglar alarm systems, automatic door openers, flow rate detectors, and remote-control systems in TV, home appliance and toys, etc. **Specification:** • Temperature Range: -20°C ~ 60°C **NOTE:** Sensors are not washable.

Type	Class	Center Frequency 51.0 (kHz)	Minimum Bandwidth (kHz)	Sound Pressure Level (dB)	Maximum Input Voltage (Vrms)	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
						Physical Size		Leads								
						Diameter	Height	Length	Space		1	25	100	250	500	
Q	Transmitter	40.0	1.0	105	20	18.0	12.0	12.5	7.5	P9893-ND	17.83	378.97	1404.42	3232.40	6130.41	EFR-TQB40KS

Miniature Audio Transducer for General Application

For use in: • Burglar Alarms • Paging Systems • Smoke Detectors • Gas Detectors • Light and Radiation Detectors • Data Entry Terminals • Cash Registers • Alarm Clocks • Fish Finders • Metal Detectors • Medical Equipment • Test Instruments • Telephones • Movie Cameras • Automotive Warning Systems • Production Machinery • Various Electronic Equipment

Rated Input (mW)	D.C. Resistance (Ω)	Impedance (Ω)	S. P. L. (dB/1 W/1 m)	Frequency (kHz)	Physical Size (mm)	Terminal	Digi-Key Part No.	Pricing				Panasonic Part No.
								1	25	100	250	
50	12	35	86	3.8 ~ 4.3	12.0 x 8.5	Straight Pin	P9965-ND	3.58	71.89	261.99	591.07	EAF-12RF04C

TDK

Audio Transducers

Dim. in mm Digi-Reel® RoHS COMPLIANT

Fig. 1

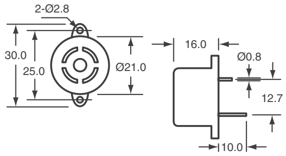

Fig. 2

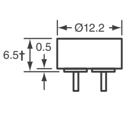

† 445-5229 = 3.5

Fig. 3

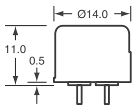

Fig. 4

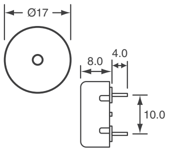

Fig. 5

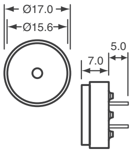

Fig. 6

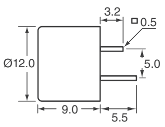

Fig. 7

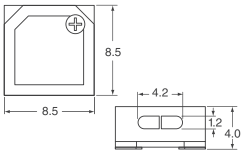

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Operating Temperature Range	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Box		TDK Part No.
							1	10	100		Qty.	Pricing	
1	3.3	4 ~ 15VDC	12VDC	75	-20°C ~ 60°C	445-2529-ND	3.98	3.62	2.90	—	—	—	PB2130UP002A
2	4.0	3 ~ 30Vp-p	3Vp-p	70	-20°C ~ 70°C	445-2525-1-ND	.39	.36	.29	445-2525-3-ND	500	107.00	PS1240P02BT
2	4.0	3 ~ 30Vp-p	3Vp-p	60	-20°C ~ 70°C	445-5229-1-ND ***NEW!***	.43	.40	.32	445-5229-3-ND ***NEW!***	2,500	236.00/M	PS1240P02CT3
3	2.0	5 ~ 30Vp-p	5Vp-p	70	-20°C ~ 70°C	445-2526-1-ND	.58	.54	.43	445-2526-3-ND	350	111.65	PS1420P02CT
4	2.0	3 ~ 30Vp-p	3Vp-p	70	-20°C ~ 70°C	445-2527-ND	.51	.47	.38	—	—	—	PS1720P02
5	4.0	3 ~ 20Vp-p	3Vp-p	75	-20°C ~ 70°C	445-2528-ND	.48	.44	.35	—	—	—	PS1740P02E
6	2.048	1 ~ 4Vp-p	3Vp-p	80	-40°C ~ 85°C	445-2530-ND	1.29	1.18	.94	—	—	—	SD1209T3-A1
7	2.67	0 ~ 5Vo-p	3Vo-p	97	-40°C ~ 85°C	445-4832-1-ND	4.13	3.75	3.00	445-4832-2-ND◊	1,000	2250.00	SDR08540M3-01
8	2.0	0 ~ 20Vo-p	3Vo-p	75	-40°C ~ 125°C	445-5239-ND ***NEW!***	.56	.51	.41	—	—	—	PS2220P02
9	2.048	6 ~ 15Vo-p	12Vo-p	85	-40°C ~ 85°C	445-5228-ND ***NEW!***	1.56	1.43	1.14	—	—	—	SD1614TT-B3M
10	4.0	3 ~ 30Vo-p	3Vo-p	75	-20°C ~ 70°C	445-5242-1-ND ***NEW!***	.51	.47	.38	445-5242-3-ND ***NEW!***	350	98.35	PS1440P02BT
11	4.096	3 ~ 9Vo-p	5Vo-p	80	-10°C ~ 70°C	445-5245-ND ***NEW!***	1.80	1.64	1.31	—	—	—	SD160709
11	2.048	3 ~ 6Vo-p	5Vo-p	85	-10°C ~ 70°C	445-5243-ND ***NEW!***	1.42	1.30	1.04	—	—	—	SD1614T5-B1
11	2.048	6 ~ 15Vo-p	12Vo-p	85	-10°C ~ 70°C	445-5244-ND ***NEW!***	1.42	1.30	1.04	—	—	—	SD1614TT-B1

◊ Tape and Reel

Fig. 8 ***NEW!***

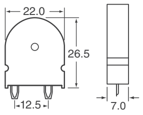

Fig. 9 ***NEW!***

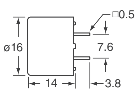

Fig. 10 ***NEW!***

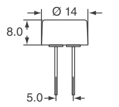

Fig. 11 ***NEW!***

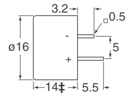

‡ 445-5245-ND = 7.0

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Sonalert® Magnetic and Piezo Buzzers

RoHS COMPLIANT

Dim. in mm

Fig. 1

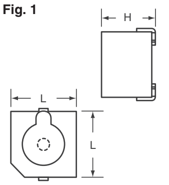

Fig. 2

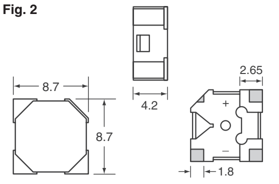

Fig. 3

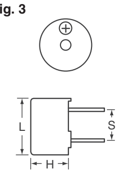

Fig. 4

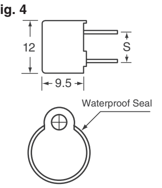

Fig. 5

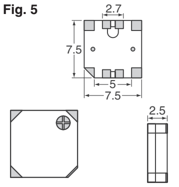

Fig. 6

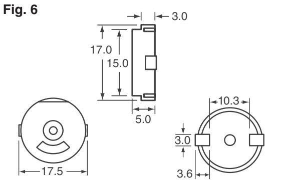

Fig. 7

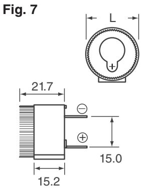

Fig. 8

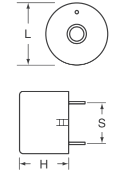

Fig. 9

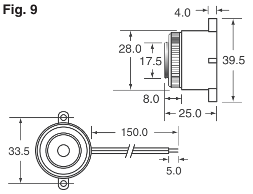

Fig. 10

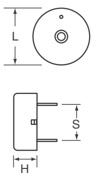

Fig. 11

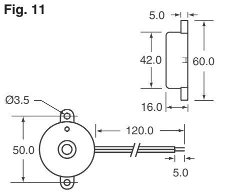

Fig. 12

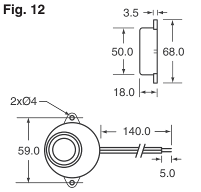

Fig. 13

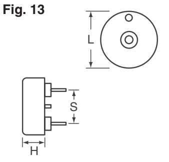

Fig. 14

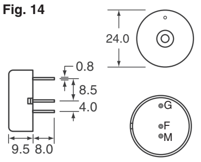

Fig. 15

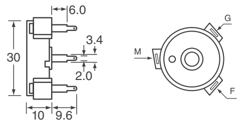

Fig. 16

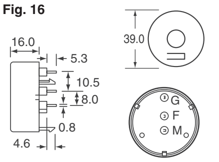

Fig. 17

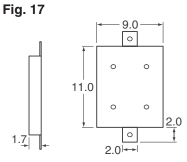

Fig. 18

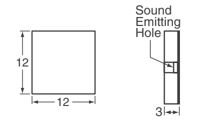

Fig. 19

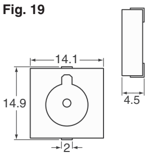

Fig. 20

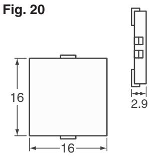

Fig. 21

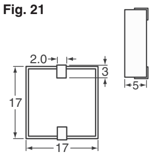

Fig. 22

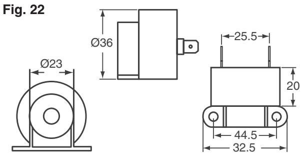

Fig. 23

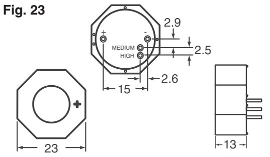

Fig. 24

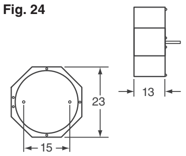

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Current Consumption Max. (mA)	Dimensions (mm) L	H	S	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel◊ Qty.	Pricing	Mallory Part No.
									Magnetic Buzzers						
1	2.400	4.0 ~ 7.0 VDC	5.0 VDC	90	30	12.6	10	—	458-1049-ND†	3.80	2.78	2.27	—	—	ASI301Q
	2.400	9.0 ~ 15 VDC	12 VDC	90	50	12.6	10	—	458-1050-ND†	3.80	2.78	2.27	—	—	ASI401Q
	2.400	1.0 ~ 2.0 Vp-p	1.5 Vp-p	85	50	12.6	7	—	458-1053-ND†	3.65	2.59	2.13	—	—	AST501Q
	2.400	4.0 ~ 7.0 Vp-p	5.0 Vp-p	87	50	12.6	7	—	458-1054-ND†	3.56	2.53	2.07	—	—	AST605Q
2	2.731	2.0 ~ 4.0 Vp-p	3.0 Vp-p	85	80	—	—	—	458-1052-ND	5.15	3.81	3.16	—	—	AST200Q
3	2.048	1.25 ~ 2.5 Vp-p	1.5 Vp-p	85	40	12	8	6.5	458-1061-ND	1.86	1.22	.99	—	—	PB-1220PQ
4	2.400	4.5 ~ 5.5 Vp-p	5.0 Vp-p	85	50	—	—	6.5	458-1062-ND	1.30	.84	.65	—	—	PB-1224PE-05Q
	2.300	2.0 ~ 5.0 VDC	3.0 VDC	85	30	—	—	7.6	458-1063-ND	3.94	2.88	2.35	—	—	PB-12N23P-03Q
	2.300	4.0 ~ 7.0 VDC	5.0 VDC	85	30	—	—	7.6	458-1064-ND	3.94	2.88	2.35	—	—	PB-12N23P-05Q
	2.300	9.0 ~ 15 VDC	12 VDC	85	50	—	—	7.6	458-1065-ND	3.94	2.88	2.35	—	—	PB-12N23P-12Q
5	2.700	2.5 ~ 4.5 Vp-p	3.6 Vp-p	85	100	—	—	—	458-1100-1-ND§†	3.18	2.09	1.69	1,000	1440.00	AST7525MATRQ
									Piezo Buzzers						
1	3.650	1.0 ~ 30 Vp-p	7.0 Vp-p	85	5	14.8	7.5	—	458-1096-1-ND§†	1.81	1.73	1.36	300	377.10	AST1575BMATRQ
3	4.100	3.0 ~ 15 VDC	12 VDC	85	10	14	7.5	7.6	458-1066-ND	4.09	3.00	2.45	—	—	PK-12N40PQ
	3.000	3.0 ~ 24 VDC	12 VDC	85	18	24	13.5	15	458-1070-ND	5.61	4.05	3.37	—	—	PK-21A31PQ
	4.100	3.0 ~ 20 Vp-p	5.0 Vp-p	80	2	13.8	8.3	7.6	458-1076-ND	3.61	2.61	2.14	—	—	PT-1240PQ
	3.850	5.0 ~ 16 VDC	16 VDC	86	14	23	10.5	15	458-1088-ND	5.72	5.30	4.01	—	—	MSR516NR
	3.400	3.0 ~ 20 VDC	20 VDC	62@12V	16	23	10.5	15	458-1087-ND	4.39	4.07	3.08	—	—	MSR320R
6	4.000	3.0 ~ 15 Vp-p	5.0 Vp-p	80	50	—	—	—	458-1051-ND†	2.46	1.70	1.39	—	—	AST100Q
7	2.700	9.0 ~ 12 VDC	12 VDC	103	50	26.3	—	—	458-1086-ND	8.16	7.55	5.72	—	—	MAS800Q
	2.700	9.0 ~ 12 VDC	12 VDC	103	50	26	—	—	458-1056-ND	9.38	7.14	6.12	—	—	MAS800SQ
	2.800	6.0 ~ 14 VDC	12 VDC	103	50	26	—	—	458-1057-ND	8.17	6.36	5.27	—	—	MAS806Q
8	2.500	3.0 ~ 20 VDC	12 VDC	95	20	23.4	18	15	458-1059-ND	5.12	3.79	3.14	—	—	MCP320B2Q
	2.500	3.0 ~ 24 VDC	12 VDC	95	25	23.4	18	15	458-1067-ND	5.34	3.85	3.21	—	—	PK-20A25PQ
	3.800	3.0 ~ 24 VDC	12 VDC	95	15	23.4	18	15	458-1069-ND	4.98	3.69	3.05	—	—	PK-20A38PQ
	3.150	3.0 ~ 20 VDC	12 VDC	74	20	24	17	15	458-1060-ND	4.68	3.47	2.87	—	—	MCP320Q
9	3.500	3.0 ~ 24 VDC	12 VDC	95	10	—	—	—	458-1068-ND	5.20	3.85	3.19	—	—	PK-20A35EWQ
10	3.000	1.5 ~ 30 VDC	12 VDC	80	12	24	9.5	15	458-1071-ND	4.20	3.07	2.51	—	—	PK-21N30PQ
	2.500	3.0 ~ 28 VDC	12 VDC	90	15	30	10	15	458-1072-ND	4.79	3.55	2.94	—	—	PK-27N26PSQ
	3.500	3.0 ~ 28 VDC	12 VDC	90	15	30	10	15	458-1073-ND	4.79	3.55	2.94	—	—	PK-27N36PSQ
	2.500	3.0 ~ 30 Vp-p	5.0 Vp-p	90	1.5	30	10	15	458-1081-ND	2.86	1.98	1.61	—	—	PT-2726PQ
11	2.500	5.0 ~ 15 VDC	12 VDC	100	40	—	—	—	458-1074-ND	7.32	5.58	4.78	—	—	PS-562Q
12	2.800	5.0 ~ 15 VDC	12 VDC	100	150	—	—	—	458-1075-ND	8.60	6.62	5.55	—	—	PS-580Q
13	4.000	3.0 ~ 25 Vp-p	5.0 Vp-p	85	1.5	17	7	10	458-1077-ND	1.87	1.23	1.00	—	—	PT-1540PQ
	4.000	3.0 ~ 30 Vp-p	5.0 Vp-p	90	1.5	22	7	10	458-1078-ND	1.70	1.16	.89	—	—	PT-2040PQ
14	3.000	1.5 ~ 30 VDC	12 VDC	80	12	—	—	—	458-1079-ND	2.82	1.95	1.59	—	—	PT-2130FPQ
15	3.500	3.0 ~ 28 VDC	12 VDC	88	10	—	—	—	458-1083-ND	2.84	1.96	1.60	—	—	PT-2735FPLQ
16	3.400	3.0 ~ 28 VDC	9.0 VDC	105	12	—	—	—	458-1085-ND	3.41	2.43	1.99	—	—	PT-3534FPQ
17	4.100	1.0 ~ 20 Vp-p	5.0 Vp-p	73	1	—	—	—	458-1093-1-ND§†	3.25	2.14	1.73	1,000	1474.00	AST1109MLTRQ
18	4.000	1.0 ~ 25 Vp-p	3.0 Vp-p	75	5	—	—	—	458-1094-1-ND§†	2.74	1.86	1.44	1,000	1223.00	AST1240MLTRQ
19	4.000	1.0 ~ 20 Vp-p	5.0 Vp-p	75	2	—	—	—	458-1095-1-ND§†	2.82	1.91	1.48	600	753.60	AST1440MATRQ
20	4.000	1.0 ~ 25 Vp-p	3.0 Vp-p	75	5	—	—	—	458-1097-1-ND§†	2.93	1.99	1.54	800	1044.80	AST1628MATRQ
21	4.000	1.0 ~ 20 Vp-p	5.0 Vp-p	80	2.5	—	—	—	458-1098-1-ND§	4.18	2.69	2.07	400	693.20	AST1750MATRQ
22	2.900	6.0 ~ 130 VAC	120 VAC	95	—	—	—	—	458-1117-ND	7.56	6.43	4.73	—	—	MAS27A29ERB120Q
23	0.975	4.5 ~ 5.5 VDC	5.0 VDC	88	250	—	—	—	458-1118-ND▲	15.53	13.21	9.71	—	—	MSS5M1

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Pulse Rate Per Second	Sound Pressure Level (dB)	Current Consumption Max. (mA)	Dimensions (mm) L	H	S	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
									Variable Tone Buzzers					
3	3,900	5.0 ~ 16 VDC	0.5 ~ 2 (Slow)	86	12	23	10.5	15	458-1089-ND	6.48	6.00	5.38	4.86	MSR516NJR
	3,800 Avg.	5.0 ~ 16 VDC	2 ~ 4 (Siren)	86	12	23	10.5	15	458-1092-ND	10.06	9.31	8.35	7.55	MSR516XR
	3,700 Avg.	5.0 ~ 16 VDC	5 ~ 7 (Whooping)	86	12	23	10.5	15	458-1091-ND	10.06	9.31	8.35	7.55	MSR516WR

§ Cut Tape ◊ For Tape and Reel part number, change 1-ND to 2-ND. ‡ 0.25W, 8Ω Speaker ▲ Three priority sounds

(Continued)

Sonalert® Magnetic and Piezo Buzzers *(Cont.)*

Fig.	Frequency (kHz)	Impedance (Ω)	Rated Power (W)	Maximum Power (W)	Sound Pressure Level (dB)	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
Speaker											
24	0.975	8	0.25	0.50	90	458-1116-ND‡	4.95	4.48	3.97	3.73	MSS300R

§ Cut Tape ◊ For Tape and Reel part number, change 1-ND to 2-ND. ‡ 0.25W, 8Ω Speaker ▲ Three priority sounds

† **458-KIT-ND** SMD Buzzer Kit 2 each of 11 popular values. Conveniently packaged in a plastic box with bin guide........ **$60.00**

Sonalert® Audible Signal Devices (Buzzers)

Dimensions in Inches

Fig. 1

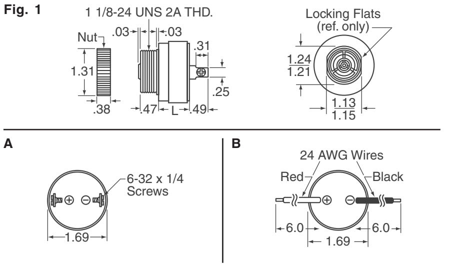

Fig. 2

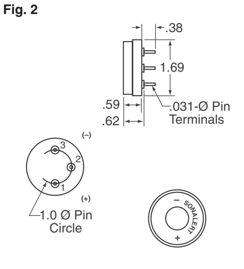

Fig. 3

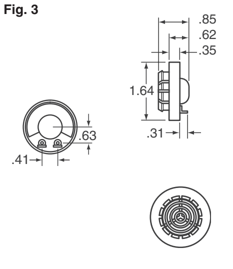

Fig. 4

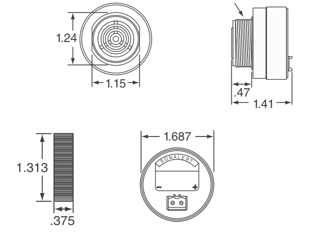

Fig.	Mounting Method	Dimension L (Inch)	Frequency ±500 (Hz)	Min. Sound Pressure dB (A) @ Two Feet @Min. (V)	@Max. (V)	Operating Voltage Range	Operating Current (mA) @Min. (V)	@Max. (V)	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
Continuous Tones														
1A	Panel	0.81	1,900 ±300	60	75	6 ~ 28 VDC	5	18	458-1033-ND	18.06	16.32	14.47	13.60	SC628D
	Panel	0.81	1,900 ±300	60	75	6 ~ 28 VDC	5	18	458-1154-ND◆ ***NEW!***	17.70	16.00	14.18	13.33	SC628DR
	Panel	0.81	2,900	80	90	3 ~ 7 VDC	4	12	458-1143-ND◆ ***NEW!***	24.30	21.96	19.47	18.30	SC307NR
	Panel	0.81	2,900	80	90	3 ~ 7 VDC	4	12	458-1110-ND◆	230.22	208.03	184.46	173.36	SCH307NR
	Panel	0.81	2,900	68	80	4 ~ 16 VDC	4	14	458-1022-ND	15.98	14.44	12.81	12.04	SC416
	Panel	0.81	2,900	68	80	4 ~ 16 VDC	4	14	458-1144-ND◆ ***NEW!***	15.80	14.28	12.66	11.90	SC416R
	Panel	0.81	2,900	80	95	6 ~ 16 VDC	6	22	458-1146-ND◆ ***NEW!***	19.91	17.99	15.95	14.99	SC616NR
	Panel	0.81	2,900	80	90	6 ~ 28 VDC	4	16	458-1157-ND◆ ***NEW!***	17.05	15.41	13.67	12.85	SC628NR
	Panel	0.81	2,900	68	80	6 ~ 28 VDC	3	18	458-1150-ND◆ ***NEW!***	15.27	13.80	12.24	12.24	SC628R
	Panel	0.81	2,900	80	90	6 ~ 28 VDC	—	16	458-1115-ND◆	194.81	176.03	156.08	146.70	SCH628NR
	Panel	0.81	2,900	68	80	6 ~ 28 VDC	3	18	458-1113-ND◆	177.99	160.84	142.61	134.03	SCH628R
	Panel	0.81	2,900	68	80	10 ~ 48 VDC	4	18	458-1040-ND	18.43	16.66	14.77	13.89	SC648
	Panel	0.81	2,900	68	80	10 ~ 48 VDC	4	18	458-1160-ND◆ ***NEW!***	18.07	16.34	14.48	13.61	SC648R
	Panel	0.81	2,900	68	80	10 ~ 48 VAC/DC	—	16	458-1114-ND◆	294.67	266.27	236.10	221.90	SCH648AR
	Panel	0.81	2,900	68	80	30 ~ 120 VAC/DC	7	19	458-1111-ND◆	309.66	279.82	248.11	233.18	SCH110R
	Panel	0.81	2,900	68	80	60 ~ 250 VAC/DC	5	18	458-1112-ND◆	310.92	280.95	249.11	234.13	SCH250R
	Panel	0.81	4,500	68	80	6 ~ 28 VDC	4	16	458-1155-ND◆ ***NEW!***	23.05	20.83	18.47	17.36	SC628HR
	Panel	1.37	1,900 ±300	60	75	30 ~ 120 VAC/DC	6	21	458-1014-ND	34.44	31.12	27.60	25.94	SC110D
	Panel	0.81	1,900 ±300	60	75	30 ~ 120 VAC/DC	6	21	458-1140-ND◆ ***NEW!***	33.75	30.50	27.05	25.42	SC110DR
	Panel	1.37	2,000 ±300	75	95	6 ~ 28 VDC	3	15	458-1037-ND	22.84	20.64	18.30	17.20	SC628ND
	Panel	1.37	2,000 ±300	75	95	6 ~ 28 VDC	3	15	458-1158-ND◆ ***NEW!***	22.84	20.64	18.30	17.20	SC628NDR
	Panel	0.81	2,900	68	80	30 ~ 120 VAC/DC	7	19	458-1139-ND◆ ***NEW!***	31.41	28.38	25.17	23.65	SC110R
	Panel	0.81	2,900	80	95	30 ~ 120 VAC/DC	6	24	458-1141-ND◆ ***NEW!***	36.65	33.12	29.37	27.60	SC110NR
	Panel	0.81	2,900	68	80	6 ~ 28 VAC/DC	4	16	458-1151-ND◆ ***NEW!***	27.53	24.88	22.06	20.73	SC628AR
	Panel	0.81	2,900	80	95	6 ~ 28 VAC/DC	4	30	458-1152-ND◆ ***NEW!***	34.14	30.86	27.36	25.72	SC628ANR
1B	Panel	0.81	2,900	80	95	6 ~ 16 VDC	6	22	458-1026-ND	23.43	21.17	18.77	17.64	SC616NL
	Panel	0.81	2,900	80	95	6 ~ 16 VDC	6	22	458-1148-ND◆ ***NEW!***	23.46	21.20	18.80	17.67	SC616NLR
2	PCB	—	2,900	64	78	4 ~ 28 VDC	3	16	458-1011-ND	19.20	17.36	15.39	14.46	SBM428
	PCB	—	2,900	64	78	4 ~ 28 VDC	3	16	458-1138-ND◆ ***NEW!***	18.82	17.01	15.09	14.18	SBM428R
3	Snap-In Panel	—	2,900	55	68	1 ~ 5 VDC	3	12	458-1161-ND◆ ***NEW!***	15.94	14.40	12.77	12.00	SNP2R
	Snap-In Panel	—	2,900	64	76	4 ~ 28 VDC	3	16	458-1162-ND◆ ***NEW!***	16.91	15.28	13.55	12.74	SNP428R
4	Panel	—	2,900	95	105	6 ~ 16 VDC	—	20	458-1101-ND◆	22.84	20.65	18.31	17.21	SCE016XD3CTB
	Panel	—	2,900	85	95	16 ~ 28 VDC	—	20	458-1103-ND◆	19.82	17.91	15.88	14.93	SCE028LD3CTB
	Panel	—	2,900	75	85	16 ~ 28 VAC	—	20	458-1104-ND◆	31.56	28.53	25.29	23.77	SCE028MA3CTB
	Panel	—	2,900	75	85	16 ~ 28 VDC	—	20	458-1105-ND◆	18.11	16.37	14.51	13.64	SCE028MD3CTB
	Panel	—	2,900	75	85	48 ~ 120 VAC	—	20	458-1107-ND◆	37.27	33.69	29.87	28.07	SCE120MA3CTB
Intermittent Tones														
1A	Panel	0.81	2,900	80	95	6 ~ 16 VDC	6	22	458-1147-ND†◆ ***NEW!***	25.52	23.07	20.45	19.22	SC616NJR
	Panel	0.81	2,900	80	95	6 ~ 16 VDC	6	22	458-1149-ND‡◆ ***NEW!***	21.62	19.54	17.32	16.28	SC616NPR
	Panel	1.37	2,000 ±300	85	95	10 ~ 28 VDC	3	16	458-1038-ND‡	25.62	23.15	20.53	19.30	SC628NDP
	Panel	0.81	2,900	80	95	6 ~ 28 VAC/DC	4	30	458-1153-ND‡◆ ***NEW!***	34.14	30.86	27.36	25.72	SC628ANPR
	Panel	1.37	2,900	68	80	6 ~ 28 VDC	5	20	458-1035-ND†	29.90	27.02	23.96	22.52	SC628J
	Panel	0.81	2,900	68	80	6 ~ 28 VDC	5	20	458-1156-ND†◆ ***NEW!***	29.32	26.50	23.50	22.09	SC628JR
	Panel	1.37	2,900	68	80	6 ~ 28 VDC	4	16	458-1039-ND‡	27.47	24.83	22.01	20.69	SC628P
	Panel	0.81	2,900	68	80	6 ~ 28 VDC	4	16	458-1159-ND‡◆ ***NEW!***	26.71	24.14	21.40	20.12	SC628PR
	Panel	0.81	2,900	80	95	30 ~ 120 VAC/DC	6	24	458-1142-ND‡◆ ***NEW!***	38.01	34.35	30.46	28.63	SC110NPR
Chime Tone (Chimes Every One to Two Seconds) — RoHS Compliant														
1A	Panel	1.37	2,900	68	78	6 ~ 16 VDC	6	16	458-1145-ND ***NEW!***	35.55	32.13	28.49	26.77	SC616CPR
Optical/Audible Signal Devices (Contains a Blinking LED in the Front of the Alarm)														
1A	Panel	1.37	2,900	85	95	6 ~ 28 VAC/DC	42@6	65@28	458-1003-ND	55.47	50.13	44.45	41.77	LSC628AN
Accessories — RoHS Compliant														
Pluggable Screw Terminal Block for SCE Series									458-1108-ND	2.17	1.97	1.75	1.64	ACC02
Neoprene Gasket for SC Series									458-1109-ND	.39	.36	.32	.30	ACC03

◆ ***RoHS Compliant*** † Slow = Turns on and off at 0.5 to 2 pulses per second depending upon voltage at 50% duty cycle.
‡ Fast = Turns on and off at 2 to 10 pulses per second depending upon voltage at 50% duty cycle.

Fig. 1

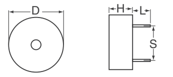

Fig. 2

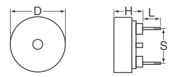

Fig. 3

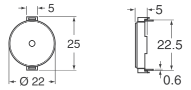

Fig. 4

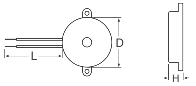

Fig. 5

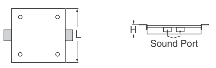

Fig. 6

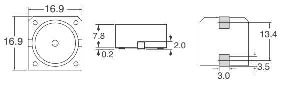

Fig. 7

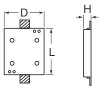

Fig. 8

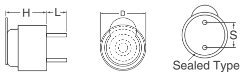

Fig. 9

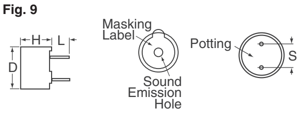

Fig. 10

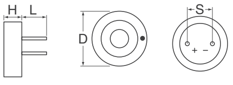

Fig. 11

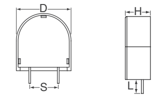

Fig. 12 ***NEW!***

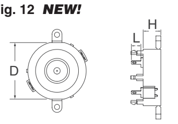

Fig. 13 ***NEW!***

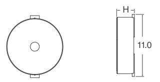

Fig. 14 ***NEW!***

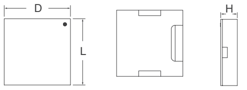

Fig. 15 ***NEW!***

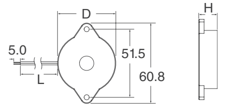

Fig. 16

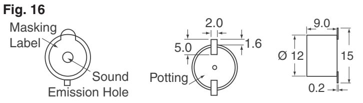

Fig. 17

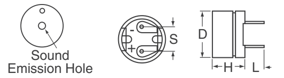

Fig. 18

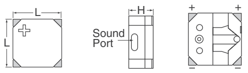

Fig. 19

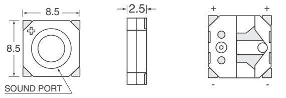

Piezo Ceramic Audio Transducers — External Drive Type

Digi-Reel® RoHS COMPLIANT

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel Pricing†	CUI Part No.
1	2.0	30V p-p	93 @ 2.0kHz	11mA	30.0	13.5	20.0	6.5	102-1140-ND	2.20	2.00	1.60	1.33	—	CEP-1114
	2.0	30V p-p	90 @ 2.0kHz	8mA	30.0	10.0	15.2	6.0	102-1141-ND	1.95	1.78	1.42	1.18	—	CEP-1116
	2.4	30V p-p	88 @ 2.4kHz	18mA	22.8	13.5	10.0	7.0	102-1137-ND	2.83	2.58	2.06	1.71	—	CEP-1106
	4.0	20V p-p	76 @ 4.0kHz	10mA	14.0	7.0	7.6	4.5	102-1133-ND	2.26	2.05	1.64	1.37	—	CEP-1160
	4.0	20V p-p	80 @ 4.0kHz	7mA	14.0	7.0	7.6	4.5	102-1134-ND	2.45	2.23	1.78	1.48	—	CEP-1162
	4.0	30V p-p	92 @ 4.0kHz	11mA	24.0	7.3	10.0	7.0	102-1138-ND	1.38	1.25	1.00	.83	—	CEP-1112
	4.8	30V p-p	85 @ 4.8kHz	11mA	14.0	4.0	—	90.0	102-1617-NDΔ	.88	.80	.64	.53	—	CPE-165
	4.8	30V p-p	80 @ 4.8kHz	10mA	13.0	2.5	—	35	102-1616-NDΔ	.94	.85	.68	.57	—	CPE-163
2	3.0	30V p-p	90 @ 2.8kHz	10mA	30.2	7.5	15.24	5.5	102-1139-ND	1.82	1.65	1.32	1.10	—	CEP-1130
	4.0	20V p-p	85 @ 4.0kHz	8mA	17.0	7.0	10.0	4.6	102-2198-ND✔	1.40	1.28	1.02	.85	—	CPE-1785
	4.0	30V p-p	82 @ 4.0kHz	7mA	17.0	7.6	10.0	3.5	102-1136-ND	1.51	1.38	1.10	.92	—	CEP-1153
	4.0	30V p-p	84 @ 4.0kHz	6mA	22.1	5.3	10.0	3.0	102-1614-ND	1.10	1.00	.80	.67	—	CPE-813
	5.0	30V p-p	82 @ 5.0kHz	8mA	16.5	7.0	11.0	6.5	102-1135-ND	1.38	1.25	1.00	.83	—	CEP-1152
3	2.5	50V p-p	80 @ 2.5kHz	7mA	—	—	—	—	102-1142-ND	1.54	1.40	1.12	.93	—	CEP-1108
4	2.8	30V p-p	92 @ 2.8kHz	10mA	29.5	5.2	—	120.0	102-1145-ND	1.73	1.58	1.26	1.05	—	CEP-1126
	4.1	30V p-p	90 @ 4.1kHz	12mA	24.0	5.0	—	95	102-1144-ND	1.38	1.25	1.00	.83	—	CEP-1110
	4.5	50V p-p	97 @ 4.5kHz	11mA	30.0	5.1	—	110.0	102-1620-ND	1.10	1.00	.80	.67	—	CPE-827
	6.0	30V p-p	88 @ 6.0kHz	8mA	24.0	4.0	—	100.0	102-1619-ND	1.29	1.18	.94	.78	—	CPE-120
5	4.0	25V p-p	70 @ 4.0kHz	3mA	—	2.7	—	16.0	102-1193-1-ND‡	1.79	1.63	1.30	1.08	910.00/1,000	CMT-1603
	4.0	25V p-p	81 @ 4.0kHz	5mA	—	2.6	—	16.0	102-2204-1-ND‡✔	2.09	1.90	1.52	1.27	1064.00/1,000	CMT-1604
	4.1	25V p-p	70 @ 4.1kHz	5mA	—	2.5	—	12.8	102-1195-1-ND‡	2.37	2.15	1.72	1.43	1204.00/1,000	CMT-1303
6	5.0	20V p-p	88 @ 5.0kHz	10mA	—	—	—	—	102-1194-5-ND	2.37	2.15	1.72	1.43	—	CMT-1261
7	4.1	25V p-p	68 @ 4.1kHz	4.5mA	9.0	1.7	—	11.0	102-1264-1-ND‡	2.64	2.40	1.92	1.60	2688.00/2,000	CMT-1102
8	2.8	30V p-p	75 @ 2.8kHz	4mA	9.0	8.0	5.0	4.0	102-1283-ND	1.53	1.33	1.02	.85	—	CPE-171
9	4.0	20V p-p	80 @ 4.0kHz	10mA	13.7	7.6	7.62	5.5	102-1612-ND	1.90	1.73	1.38	1.15	—	CPE-164
10	4.0	30V p-p	84 @ 4.0kHz	9mA	13.0	6.0	5.0	6.0	102-1613-ND	1.40	1.28	1.02	.85	—	CPE-168
	6.0	30V p-p	90 @ 4.1kHz	8mA	24.0	6.7	10.0	5.8	102-1615-ND	1.76	1.60	1.28	1.07	—	CPE-122
11	3.3	30V p-p	93 @ 3.3kHz	10mA	24.0	10.0	12.5	5.5	102-1610-ND	1.76	1.60	1.28	1.07	—	CPE-502
12	4.0	85, 50, 100, 60§	100 @ 4.0kHz	—	44.8	13.6	—	7.25	102-2193-ND✔	5.86	5.33	4.26	3.54	—	CPE-4485
13	5.2	25V p-p	75 @ 5.2kHz	5mA	10.0	3.1	—	—	102-2194-1-ND‡✔	3.08	2.80	2.24	1.86	1254.40/800	CMT-1075
14	4.0	25V p-p	81 @ 4.0kHz	5mA	12.0	3.0	—	12.0	102-2197-1-ND‡✔	1.84	1.68	1.34	1.12	938.00/1,000	CMT-1203
15	0.8	50V p-p	80 @ 0.8KHZ	10mA	60.8	14	—	135.0	102-2200-ND✔	2.28	2.08	1.66	1.38	—	CPE-6080

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Cut Tape Δ Wire Leads § See Data Sheet for Exact Specifications ✔***NEW!***

Magnetic Audio Transducers — External Drive Type

Digi-Reel® RoHS COMPLIANT

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel Pricing†	CUI Part No.
1	3.0	1.0 ~ 1.7V O-p	70 @ 3.0kHz	80mA	6.6	3.5	3.2	3.3	102-1284-ND	1.89	1.64	1.26	1.05	—	CC-0601
8	2.048	1 ~ 3V O-p	80 @ 2.048kHz	20mA	16	14.0	7.6	7.0	102-1112-NDΔ	1.40	1.28	1.02	.85	—	CEM-1601
	2.048	3 ~ 12V O-p	85 @ 2.048kHz	50mA	16	14.0	7.6	7.0	102-1113-NDΔ	1.40	1.28	1.02	.85	—	CEM-1606
	2.048	6 ~ 18V O-p	85 @ 2.048kHz	40mA	16	14.0	7.6	7.0	102-1114-NDΔ	1.40	1.28	1.02	.85	—	CEM-1612
9	2.4	1 ~ 3V O-p	80 @ 2.4kHz	40mA	12	9.5	6.5	5.5	102-1154-NDΔ	.83	.75	.60	.50	—	CEM-1201S
	2.4	3 ~ 8V O-p	85 @ 2.4kHz	45mA	12	9.5	6.5	5.5	102-1155-NDΔ	.83	.75	.60	.50	—	CEM-1206S
	2.4	6 ~ 16V O-p	85 @ 2.4kHz	40mA	12	9.5	6.5	5.5	102-1156-NDΔ	.83	.75	.60	.50	—	CEM-1212S
	2.4	4.0 ~ 8.0V O-p	85 @ 2.4kHz	50mA	12	10.0	6.5	3.3	102-1269-ND	.80	.73	.58	.49	—	CCG-1206
	2.8	1 ~ 1.7V O-p	85 @ 2.8kHz	40mA	12	10	5.0	3.3	102-1169-NDΔ	1.24	1.13	.90	.75	—	CEM-14R06CT
10	2.0	2.0 ~ 4.0V O-p	85 @ 2.0kHz	90mA	12.0	3.8	6.5	5.5	102-1286-ND	.87	.76	.58	.49	—	CSQG703BP
16	2.4	4 ~ 8V O-p	85 @ 2.4kHz	40mA	—	—	—	—	102-1150-NDΔ	2.09	1.90	1.52	1.27	—	CD-1206
17	2.048	1 ~ 2V O-p	85 @ 2.048kHz	20mA	12	8.5	6.5	5.5	102-1151-ND	.63	.58	.46	.39	—	CEM-1201(42)
	2.048	1 ~ 2V O-p	80 @ 2.048kHz	20mA	12	8.5	6.5	5.5	102-1152-ND	.63	.58	.46	.39	—	CEM-1201(50)
	2.048	3 ~ 5V O-p	85 @ 2.048kHz	35mA	12	8.5	6.5	5.5	102-1153-ND	.72	.65	.52	.44	—	CEM-1203(42)
	2.048	1 ~ 2V O-p	70 @ 2.048kHz	35mA	12.0	5.5	6.5	5.5	102-1464-ND	.88	.80	.64	.54	—	CSQ-601BP
	2.048	1 ~ 2V O-p	70 @ 2.048kHz	20mA	12.0	5.5	6.5	5.5	102-1463-ND	.94	.85	.68	.57	—	CSQ-706BP
	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1457-ND	.99	.90	.72	.60	—	CST-911AP
	2.73	2 ~ 4V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1458-ND	.99	.90	.72	.60	—	CST-931AP

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Cut Tape Δ Wave solderable and washable ✔***NEW!***

Fig. 20

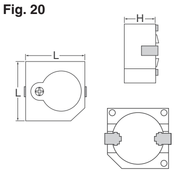

Fig. 21

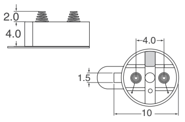

Fig. 22

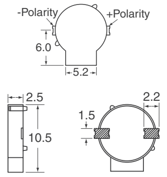

Fig. 23

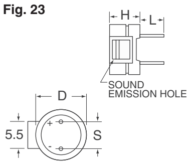

Fig. 24

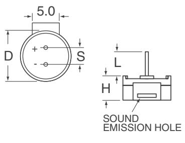

Fig. 25 ***NEW!***

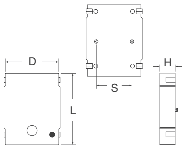

(Continued)

CUI INC Audio Transducers *(Cont.)*

Magnetic Audio Transducers — External Drive Type

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel Pricing†	CUI Part No.
17	2.73	4 ~ 6V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1459-ND	.99	.90	.72	.60	—	CST-951AP
18	2.73	2.5 ~ 4.5V O-p	87 @ 2.73kHz	100mA	—	4.0	—	8.5	102-1197-1-ND‡	2.28	2.08	1.66	1.38	1162.00/1,000	CSS-73B16K
	3.1	3 ~ 5.0V O-p	90 @ 3.1kHz	80mA	—	3.2	—	8.5	102-1198-1-ND‡	2.34	2.13	1.70	1.42	1190.00/1,000	CSS-J4D20
	2.73	3 ~ 5V O-p	90 @ 2.73kHz	80mA	—	3.2	—	8.5	102-1456-1-ND‡	2.34	2.13	1.70	1.42	1190.00/1,000	CSS-J4B20
19	2.73	3 ~ 5V O-p	85 @ 2.73kHz	80mA	—	—	—	—	102-1455-1-ND‡	2.34	2.13	1.70	1.42	1190.00/1,000	CSS-I4B20
20	2.4	3 ~ 8.0V O-p	87 @ 2.4kHz	40mA	—	6.5	—	12.8	102-1199-1-ND‡	1.79	1.63	1.30	—	424.13/450	CT-1205
	2.4	3.0 ~ 7.0V O-p	88 @ 2.4kHz	60mA	—	6.5	—	12.8	102-1266-1-ND‡	1.60	1.45	1.16	—	269.12/320	CT-1205H
21	2.73	2 ~ 4.5V O-p	90 @ 2.73kHz	80mA	—	—	—	—	102-1202-ND	2.26	2.05	1.64	1.37	—	CST-934AS
22	2.73	2.5 ~ 4.5V O-p	85 @ 2.73kHz	110mA	—	—	—	—	102-1265-1-ND‡	1.82	1.65	1.32	—	462.00/500	CCV-084B16
23	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	12.0	6.0	6.5	5.5	102-1465-ND	.80	.73	.58	.49	—	CSQ-RP/E
24	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1460-ND	1.05	.95	.76	.64	—	CST-911RP/A
	2.73	2 ~ 4V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1461-ND	1.05	.95	.76	.64	—	CST-931RP/A
	2.73	4 ~ 6V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1462-ND	1.05	.95	.76	.64	—	CST-951RP/A
25	2.73	4 ~ 6V O-p	91 @ 2.73kHz	60mA	11.0	3.0	7.0	14.0	102-2195-1-ND‡✔	3.19	2.90	2.32	1.93	1624.00/1,000	CSS-H5B43
	2.7	4 ~ 7V O-p	95 @ 2.7kHz	80mA	10.0	3.2	6.0	10.0	102-2196-1-ND‡✔	3.14	2.85	2.28	1.90	1596.00/1,000	CSS-95B30
26	4.0	2 ~ 4V O-p	75 @ 4.0kHz	110mA	5.0	1.9	—	5.0	102-2201-1-ND‡✔	3.16	2.88	2.30	1.91	4025.00/2,500	CSS-0575A
	4.0	2 ~ 4V O-p	75 @ 4.0kHz	110mA	5.0	2.7	—	5.0	102-2202-1-ND‡✔	3.08	2.80	2.24	1.86	3920.00/2,500	CSS-0575B
	4.0	2 ~ 4V O-p	78 @ 4.0kHz	110mA	5.0	3.0	—	5.0	102-2203-1-ND‡✔	3.08	2.80	2.24	1.86	3920.00/2,500	CSS-0578

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Cut Tape Δ Wave solderable and washable ✔***NEW!***

Piezo Ceramic Audio Transducers — Self Drive Type with Feedback

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Part No.
27	3.2	3 ~ 28VDC	74 @ 12VDC	7mA	23.5	10	—	6.5	102-1146-ND*	1.60	1.45	1.16	.97	.85	CEP-1123
28	3.3	3 ~ 28VDC	82 @ 12VDC	7mA	—	—	—	—	102-1149-ND*	2.04	1.85	1.48	1.23	1.08	CEP-1173

* Feedback circuit required

Fig. 26 ***NEW!***

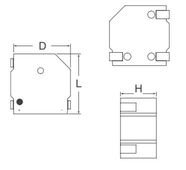

Fig. 27

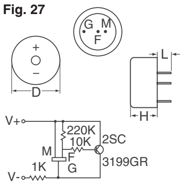

Fig. 28

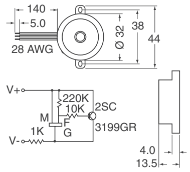

Fig. 1

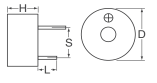

Fig. 2

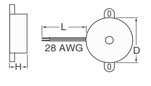

Fig. 3

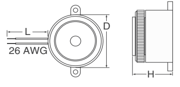

Fig. 4

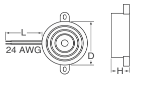

Fig. 5

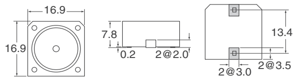

Fig. 6

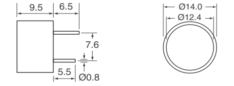

Buzzers

Audio Indicators

Fig. 7

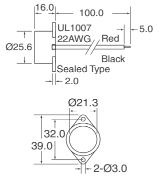

Fig. 8

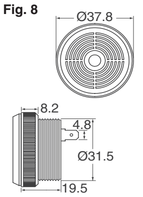

Fig. 9

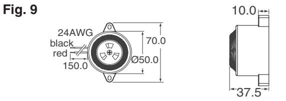

Fig. 10

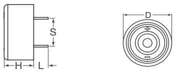

Fig. 11 ***NEW!***

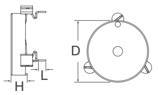

Fig. 12 ***NEW!***

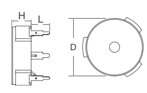

Fig. 13

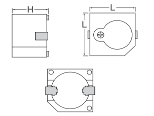

Fig. 14

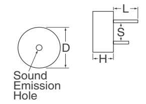

Fig. 15

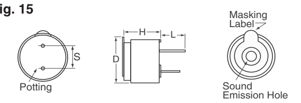

Fig. 16

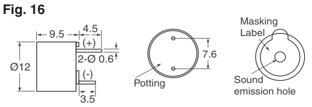

Fig.	Resonant Frequency (kHz)	Input Voltage Range	SPL (dB) Min. @ Voltage	Max. Current Consumption (mA)	Dimensions – mm D	H	S	L	Mode	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
Piezo Buzzers with Drive Circuits														
1	3.0	3 ~ 20VDC	85 @ 12VDC	11 @ 12VDC	24.2	16.0	15.0	6.0	Continuous	102-1116-ND◆	3.41	3.10	2.48	CEP-2202A
	3.0	3 ~ 20VDC	85 @ 12VDC	11 @12VDC	24.2	16.0	15.0	6.0	Continuous	102-1117-ND◆Δ	3.71	3.38	2.70	CEP-2202AS
	3.4	3 ~ 20VDC	78 @ 12VDC	15 @ 12VDC	24	9.0	15	5.5	Continuous	102-1119-ND◆	2.50	2.28	1.82	CEP-2224
	3.5	3 ~ 20VDC	93 @ 12VDC	10 @ 12VDC	31.3	16	17.5	6.0	Continuous	102-1118-ND◆	3.49	3.18	2.54	CEP-2272A
	4.1	3 ~ 16VDC	70 @ 12VDC	7 @ 12VDC	13.7	7.6	7.62	6.2	Continuous	102-1115-ND◆Δ	2.64	2.40	1.92	CEP-2242
2	2.7	3 ~ 20VDC	76 @ 12VDC	10 @ 12VDC	24	8.3	—	100	Continuous	102-1630-ND◆	2.81	2.55	2.04	CPE-220
	3.5	3 ~ 20VDC	93 @ 12VDC	10 @ 12VDC	32	13.5	—	140	Continuous	102-1120-ND◆	3.27	2.98	2.38	CEP-2260A
	4.5	3 ~ 28VDC	83 @ 12VDC	13 @ 12VDC	24	5	—	120	Continuous	102-1621-ND◆	1.76	1.60	1.28	CPE-121
	2.5 ~ 3.8	6 ~ 18VDC	88 @ 12VDC	17 @ 12VDC	32	23	—	140	Continuous	102-1121-ND	6.13	5.58	4.46	CEP-2280
3	3.5	3 ~ 28VDC	85 @ 12VDC	6 @ 12VDC	28	25.4	—	150	Continuous	102-1122-ND◆	4.26	3.88	3.10	CEP-2250
	3.5	4 ~ 28VDC	87 @ 12VDC	6 @ 12VDC	28	25.4	—	150	Continuous	102-1632-ND◆	5.39	4.90	3.92	CPE-253
4	0.3	9 ~ 14VDC	89 @ 12VDC	70 @ 12VDC	41.8	22	—	140	Continuous	102-1645-ND◆	6.71	6.10	4.88	CPE-460
	2.8	30 ~ 120VAC/DC	88 @ 110VAC	7 @ 110VAC	41.8	22	—	140	Continuous	102-1125-ND◆	5.45	4.95	3.96	CEP-4411AC
	2.8	3 ~ 16VDC	102 @ 12VDC	40 @ 12VDC	41.8	22	—	140	Continuous	102-1641-ND◆	6.60	6.00	4.80	CPE-420
	2.8	3 ~ 20VDC	88 @ 12VDC	10 @ 12VDC	41.8	16	—	145	Slow Pulse	102-1640-ND◆	5.83	5.30	4.24	CPE-353A
	2.8	3 ~ 20VDC	92 @ 12VDC	12 @ 12VDC	41.8	16	—	140	Continuous	102-1637-ND◆	4.02	3.65	2.92	CPE-350A
	2.8	3 ~ 28VDC	81 @ 12VDC	8 @ 12VDC	41.8	16	—	140	Slow Pulse	102-1639-ND◆	4.95	4.50	3.60	CPE-353
	2.8	3 ~ 28VDC	81 @ 12VDC	6 @ 12VDC	41.8	16	—	140	Fast Pulse	102-1638-ND◆	5.17	4.70	3.76	CPE-351
	2.8	3 ~ 28VDC	85 @ 12VDC	7 @ 12VDC	41.8	16	—	140	Continuous	102-1636-ND◆	3.36	3.05	2.44	CPE-350
	3	60 ~ 250VAC/DC	92 @ 220VAC	13 @ 220VAC	41.8	22	—	140	Continuous	102-1644-ND◆	6.60	6.00	4.80	CPE-422AC
	3.1	3 ~ 20VDC	73 @ 12VDC	14 @ 12VDC	23.8	14.5	—	110	Continuous	102-1629-ND◆	3.00	2.73	2.18	CPE-200
	3.1	3 ~ 30VAC/DC	89 @ 12VAC	8 @ 12VAC	41.8	22	—	140	Continuous	102-1643-ND◆	4.79	4.35	3.48	CPE-400AC
	3.5	3 ~ 28VDC	86 @ 12VDC	5 @ 12VDC	33.7	14.5	—	140	Continuous	102-1634-ND◆	2.92	2.65	2.12	CPE-270
	3.5	8 ~ 18VDC	96 @ 12VDC	12 @ 12VDC	33.7	14.5	—	140	Continuous	102-1635-ND◆	4.02	3.65	2.92	CPE-270H
5	4.0	3 ~ 20VDC	83 @ 12VDC	8 @ 12VDC	—	—	—	—	Continuous	102-1196-5-ND◆	3.96	3.60	2.88	CMI-1240
6	5.0	9 ~ 16VDC	80 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1281-ND◆*	7.38	6.40	4.92	CPE-243
	5.0	9 ~ 16VDC	80 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1468-ND◆	6.85	6.23	4.98	CPE-244
7	2.8	6 ~ 14VDC	85 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1282-ND◆*	8.97	7.78	5.98	CPE-267
8	3.6	6 ~ 28VDC	79 @ 12VDC	9 @ 12VDC	—	—	—	—	Continuous/Slow Pulse	102-1658-ND◆	14.25	12.95	10.36	CPE-757
	3.6	.7 ~ 15VDC	98 @ 12VDC	20 @ 12VDC	—	—	—	—	Continuous	102-1662-ND◆	14.58	13.25	10.60	CPE-750PA
	3.6	4 ~ 28VDC	80 @ 12VDC	8 @ 12VDC	—	—	—	—	Continuous	102-1654-ND◆	10.07	9.15	7.32	CPE-750
9	2.5	3 ~ 16VDC	100 @ 12VDC	58 @ 12VDC	50	37.5	—	150	Continuous	102-1642-ND◆	9.74	8.85	7.08	CPE-960
10	3.4	3 ~ 20VDC	86 @ 12VDC	9 @ 12VDC	24.5	16	12	6	Continuous	102-1626-ND◆	3.00	2.73	2.18	CPE-203
	3.2	8 ~ 18VDC	85 @ 12VDC	10 @ 12VDC	23.3	10.2	15	6.5	Continuous	102-1623-ND◆	3.96	3.60	2.88	CPE-222H
11	3.0	3 ~ 28VDC	83 @ 12VDC	8 @ 12VDC	28.6	7.5	—	3.5	Continuous	102-2192-ND◆✔	1.87	1.70	1.36	CPE-2883
12	3.6	3 ~ 28VDC	82 @ 12VDC	7 @ 12VDC	29.5	10.0	—	9.5	Continuous	102-2199-ND◆✔	2.28	2.08	1.66	CPE-3085
Magnetic Buzzers with Drive Circuits — RoHS Compliant														
13	2.4	4 ~ 7VDC	90 @ 5VDC	30 @ 5VDC	—	10	—	12.8	Continuous	102-1200-1-ND‡	2.72	2.48	1.98	CT-1205C
	2.4	4 ~ 7VDC	90 @ 5VDC	30 @ 5VDC	—	10	—	12.8	Continuous	102-1200-2-ND†	459.36/320			CT-1205C
	2.4	4 ~ 7VDC	88 @ 5VDC	30 @ 5VDC	—	7.1	—	12.8	Continuous	102-1267-1-ND‡	2.72	2.48	1.98	CT-1205CL
	2.4	4 ~ 7VDC	88 @ 5VDC	30 @ 5VDC	—	7.1	—	12.8	Continuous	102-1267-2-ND†	645.98/450			CT-1205CL
	2.4	8 ~ 15VDC	85 @ 12VDC	30 @ 12VDC	—	7.1	—	12.8	Continuous	102-1268-1-ND‡	2.72	2.48	1.98	CT-1212CL
	2.4	8 ~ 15VDC	85 @ 12VDC	30 @ 12VDC	—	7.1	—	12.8	Continuous	102-1268-2-ND†	645.98/450			CT-1212CL
14	2.73	4 ~ 7VDC	80 @ 5VDC	35 @ 5VDC	9.6	5.0	5.0	5.5	Continuous	102-1285-NDΔ	1.98	1.72	1.32	CX-0905C
15	2.2	4 ~ 7VDC	85 @ 6VDC	50 @ 6VDC	16.0	14.0	7.6	7.0	Continuous	102-1466-ND	2.42	2.20	1.76	CX-1606C
	2.2	8 ~ 16VDC	85 @ 12VDC	35 @ 12VDC	16.0	14.0	7.6	7.0	Continuous	102-1467-ND	2.42	2.20	1.76	CX-1612C
16	2.3	8 ~ 16VDC	85 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1123-NDΔ	2.31	2.10	1.68	CEM-1212C
	2.3	4 ~ 7VDC	85 @ 5VDC	35 @ 5VDC	—	—	—	—	Continuous	102-1124-NDΔ	2.31	2.10	1.68	CEM-1205C

◆ ***RoHS Compliant*** Δ Wave Solderable and Washable † Tape and Reel ‡ Cut Tape * Waterproof ✔ ***NEW!***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Piezo Telephone Ringer

Sound Pressure Level	Electrostatic Capacitance (@ 120Hz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each					CUI Part No.
				1	10	100	500	1,000	
81dB @ 1.1kHz	43,000pF	30V p-p	102-1132-ND	1.71	1.55	1.24	1.03	.90	CEP-1141

Dimensions in mm

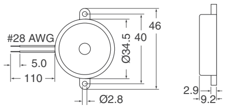

9-15VDC Buzzer

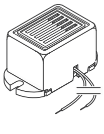

Operates from 9-15VDC.

Case size: 23mm(L) x 15mm(W) x 13.5mm(H) with mounting hole centers at 27mm.

140CU-ND $2.88/1; $26.40/10

Solid State Buzzers

Dimensions in mm

Fig.	Input Voltage Range	SPL (dB) min. @ Voltage	Current Consumption (Maximum)	Digi-Key Part No.	Price Each					CUI Part No.
					1	10	100	500	1,000	
1	20 ~ 28VDC	76 @ 24VDC	20mA @ 24VDC	102-1651-ND	4.24	3.85	3.08	2.57	2.23	CS-3224
2	20 ~ 28VDC	76 @ 24VDC	24mA @ 24VDC	102-1649-ND	4.07	3.70	2.96	2.47	2.15	CS-3624
	8 ~ 16VDC	79 @ 12VDC	30mA @ 12VDC	102-1648-ND	4.07	3.70	2.96	2.47	2.15	CS-3612
	4 ~ 8VDC	75 @ 6VDC	45mA @ 6VDC	102-1647-ND	4.07	3.70	2.96	2.47	2.15	CS-3606
	2 ~ 4VDC	75 @ 3VDC	50mA @ 3VDC	102-1646-ND	4.07	3.70	2.96	2.47	2.15	CS-3603

Fig. 1

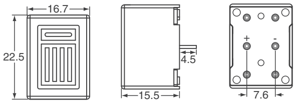

Fig. 2

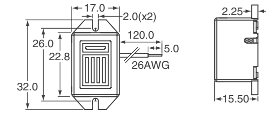

Piezoelectric Ceramic Buzzer Elements

Dimensions – mm				Resonant Frequency (kHz)	Resonant Impedance (Maximum Ω)	Electrostatic Capacity (@ 1kHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each					CUI Part No.
A	B	T	t						1	10	100	500	1,000	
Fig. 1 — Standard Type														
20.00	14.60	0.43	0.20	6.5	350	13,000pF	30V p-p	102-1126-ND	1.02	.93	.74	.62	.54	CEB-20D64
27.00	19.80	0.53	0.25	4.6	250	16,000pF	20V p-p	102-1127-ND	1.10	1.00	.80	.67	.58	CEB-27D44
35.00	25.00	0.53	0.25	2.6	300	30,000pF	30V p-p	102-1128-ND	1.43	1.30	1.04	.87	.76	CEB-35D26
44.00	25.00	0.23	0.10	0.6	1,000	70,000pF	20V p-p	102-1170-ND	1.62	1.48	1.18	.98	.86	CEB-44D06
Fig. 2 — Feed Back Type														
20.00	15.00	0.43	0.20	6.4	400	10,000pF	30V p-p	102-1129-ND	1.18	1.08	.86	.72	.63	CEB-20FD64
27.00	20.00	0.51	0.25	4.5	500	16,000pF	30V p-p	102-1130-ND	1.21	1.10	.88	.74	.64	CEB-27FD44
35.00	25.00	0.53	0.25	2.9	500	25,000pF	30V p-p	102-1131-ND	1.57	1.43	1.14	.95	.83	CEB-35FD29

Fig. 1

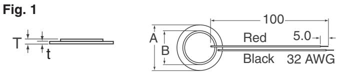

Fig. 2

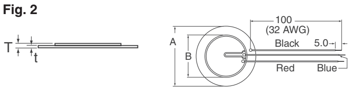

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pui audio inc
a projects unlimited company

Piezo Buzzer Elements

Fig.	Dimensions – mm			Resonant Frequency (kHz)	Capacitance (pF)	Max. Input Voltage (Vpp)	Digi-Key Part No.	Price Each				Projects Unlimited Part No.
	D	d	T					1	10	100	500	
1	9.9	7.4	0.12	7	10,000	15	668-1000-ND	.96	.88	.70	.59	AB1070B
	12	9	0.21	9	8,000	30	668-1001-ND	.96	.88	.70	.59	AB1290B
	15	8.4	0.2	4.1	8,000	15	668-1002-ND	.96	.88	.70	.59	AB1541
	15	8.9	0.21	4.8	7,500	20	668-1003-ND	.96	.88	.70	.59	AB1548B
	20	15	0.1	2.5	80,000	30	668-1004-ND	.96	.88	.70	.59	AB2025B
	20	15	0.28	4	25,000	30	668-1006-ND	.96	.88	.70	.59	AB2040B
	20	15	0.42	6.5	14,000	30	668-1007-ND	.96	.88	.70	.59	AB2065B
	20	15	0.43	7.2	10,000	30	668-1008-ND	.96	.88	.70	.59	AB2072S
	27	14.6	0.53	3.4	13,000	30	668-1012-ND	.96	.88	.70	.59	AB2734B
	27	20	0.23	2	45,000	30	668-1009-ND	.96	.88	.70	.59	AB2720B
	27	20	0.26	2.6	50,000	30	668-1011-ND	.96	.88	.70	.59	AB2726B
	27	20	0.5	4.6	16,000	20	668-1013-ND	.96	.88	.70	.59	AB2746B
	35	25	0.53	2.6	30,000	30	668-1015-ND	1.60	1.45	1.16	.97	AB3526B
	41	32	0.15	1.3	150,000	30	668-1017-ND	1.60	1.45	1.16	.97	AB4113B
	50	44	2.2	1.2	65,000	30	668-1190-ND	2.72	2.48	1.98	1.65	APS4812B-LW100-R
2	20	15	0.21	3.7	20,000	30	668-1005-ND	.96	.88	.70	.59	AB2036AF
	35	25	0.58	2.9	25,000	30	668-1016-ND	1.60	1.45	1.16	.97	AB3529BF

Fig. 1

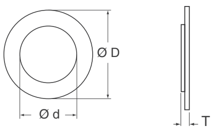

Fig. 2

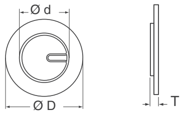

Magnetic Audio Indicators

Dimensions in mm

Fig. 1

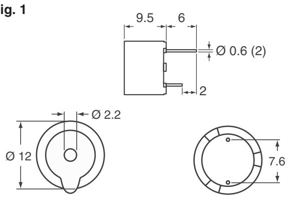

Fig. 2

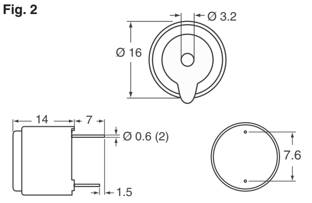

Fig. 3

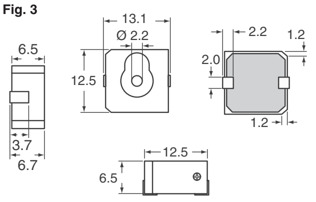

Fig. 4

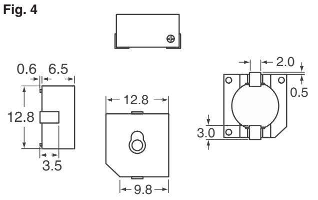

Fig.	Operating Voltage (VDC)	Rated Voltage	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Price Each				Projects Unlimited Part No.
								1	10	100	500	
1	8.0 ~ 16	12	2.3	85	30	PCB Pin	668-1018-ND	3.49	3.18	2.54	2.11	AI-1223-TWT-12V-R
	3.0 ~ 7.0	5	2.3	85	30	PCB Pin	668-1019-ND	3.49	3.18	2.54	2.11	AI-1223-TWT-5V-R
2	8.0 ~ 15	12	2.2	85	30	PCB Pin	668-1020-ND	3.80	3.45	2.76	2.30	AI-1622-TWT-12V-R
	4.0 ~ 8.0	5	2.2	85	30	PCB Pin	668-1021-ND	3.80	3.45	2.76	2.30	AI-1622-TWT-5V-R
3	8.0 ~ 15	12	2.4	85	30	SMD	668-1022-5-ND	7.07	6.43	5.14	4.27	SMI-1324-TW-12V-R
4	4.0 ~ 7.0	5	2.4	88	30	SMD	668-1023-5-ND	7.07	6.43	5.14	4.27	SMI-1324-TW-5V-2-R

Piezo Audio Indicators

Dim. in mm

Fig. 1

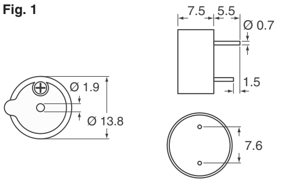

Fig. 2

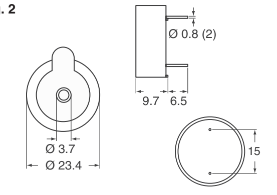

Fig. 3

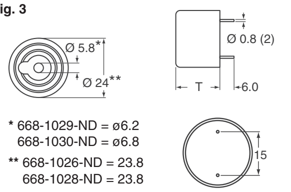

* 668-1029-ND = ø6.2
668-1030-ND = ø6.8
** 668-1026-ND = 23.8
668-1028-ND = 23.8

Fig. 4

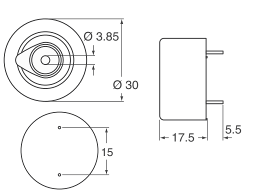

Fig. 5

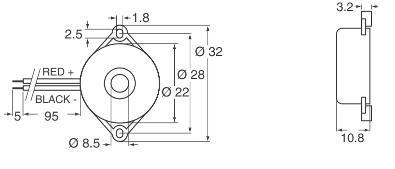

Fig. 6

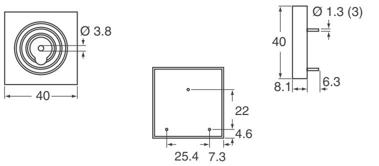

Fig. 7

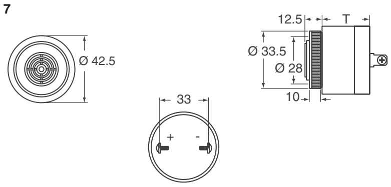

Fig. 8

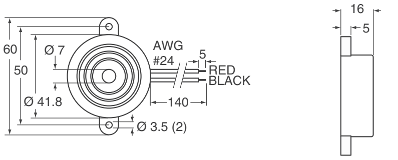

Fig. 9

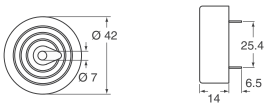

Fig. 10

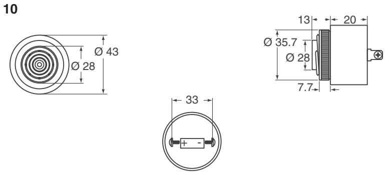

Fig. 11

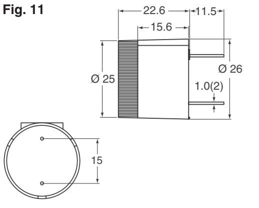

Fig. 12

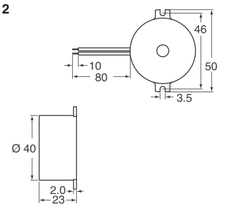

Fig. 13

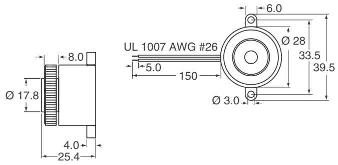

Fig. 14

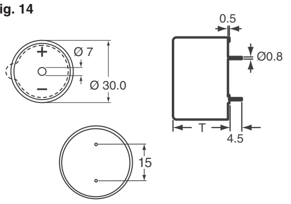

Fig.	Operating Voltage (VDC)	Rated Voltage (VDC)	Resonant Frequency (kHz)	SPL (dB)	Dim. T (mm)	Rated Current (mA)	Terminal	Digi-Key Part No.	Price Each				Projects Unlimited Part No.
									1	10	100	500	
1	3 ~ 16	12	4.0	80	—	7	PCB Pin	668-1024-ND	3.49	3.18	2.54	2.11	AI-1440-TWT-12V-R
2	3 ~ 20	12	3.1	85	—	15	PCB Pin	668-1025-ND	4.51	4.10	3.28	2.73	AI-2331-TWT-R
3	3 ~ 20	12	2.9	95	16	8	PCB Pin	668-1026-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-12V-3-R
3	8 ~ 18	12	2.9	95	16	10	PCB Pin	668-1027-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-2-R
3	3 ~ 20	12	2.9	100	16	10	PCB Pin	668-1028-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-R
3	3 ~ 16	12	3.7	100	18	8	PCB Pin	668-1029-ND	4.51	4.10	3.28	2.73	AI-2437-TWT-R
3	8 ~ 18	12	3.8	95	17.2	8	PCB Pin	668-1030-ND	4.51	4.10	3.28	2.73	AI-2438-TT-R
4	3 ~ 28	12	1.8	87	—	13	PCB Pin	668-1032-ND	5.03	4.58	3.66	3.04	AI-3018-TWT-R
5	3 ~ 28	12	4.5	90	—	5	Wire	668-1033-ND	3.69	3.35	2.68	2.23	AI-3245-TF-LW95-R
6	3 ~ 20	12	3.3	95	—	8	PCB Pin	668-1035-ND	9.74	8.85	7.08	5.88	AI-4033-TWT-R
7	7 ~ 18	12	2.9	108	20	16	Screw	668-1036-ND	18.65	16.95	13.56	11.26	AI-4228-P-C18-R
8	3 ~ 20	12	2.8	106	—	10	Wire	668-1049-ND	4.76	4.33	3.46	2.88	AI-4228-TF-LW140-3-R
8	3 ~ 28	12	2.8	95	—	7	Wire	668-1050-ND	4.18	3.80	3.04	2.53	AI-4228-TF-LW140-4-R
8	3 ~ 20	12	2.8	98	—	10	Wire	668-1051-ND	7.87	7.15	5.72	4.75	AI-4228-TF-LW140-FP-R
8	3 ~ 20	12	2.8	98	—	10	Wire	668-1052-ND	7.87	7.15	5.72	4.75	AI-4228-TF-SP-LW145-R
9	3 ~ 28	12	2.8	99	—	10	PCB Pin	668-1053-ND	4.32	3.93	3.14	2.61	AI-4228-TWT-R
10	4 ~ 28	12	2.8	97	—	8	Screw	668-1054-ND	11.99	10.90	8.72	7.24	AI-4328-P-C28-2-R
10	4 ~ 28	12	2.9	88	—	6	Screw	668-1189-ND	10.76	8.37	7.17	6.58	AI-4329-P-SP28-R
10	20 ~ 130	110	2.8	98	—	17	Screw	668-1188-ND	14.78	11.50	9.86	9.04	AI-4328-P-C120D-R
11	5 ~ 14	12	2.9	107	—	35	PCB Pin	668-1055-ND	6.35	5.78	4.62	3.84	X-2629-TWT-R
12	1.5 ~ 12	6	3.3	106	—	9	Wire	668-1056-ND	9.19	8.35	6.68	5.55	X-4033-TF-LW80-R
13	4 ~ 28	12	3.5	92	—	5	Wire	668-1057-ND	8.03	7.30	5.84	4.85	XL-2835-TF-FP-LW150-R
14	2 ~ 5	3	3.5	100	20	9	PCB Pin	668-1204-ND	3.38	3.08	2.46	2.05	AI-3035-TWT-3V-R

J

Audio Transducers

Dimensions in mm

Fig. 1

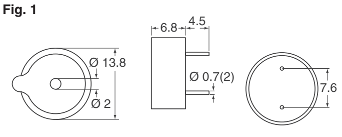

Fig. 2

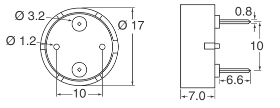

Fig. 3

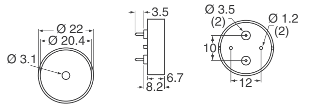

Fig. 4

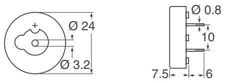

Fig. 5

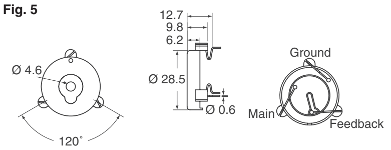

Fig. 6

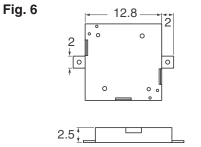

Fig. 7

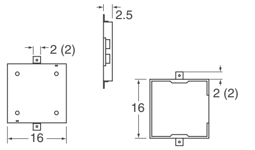

Fig. 8

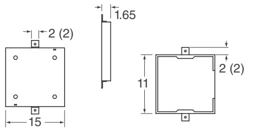

Fig. 9

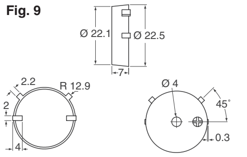

Fig. 10

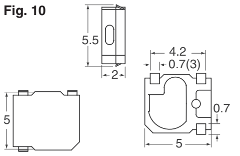

Fig. 11 ***NEW!***

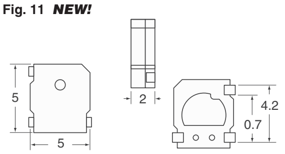

Fig. 12

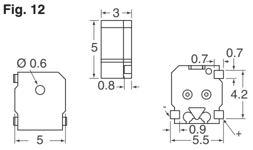

Fig. 13

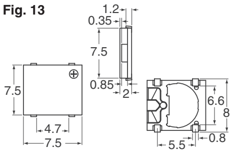

Fig. 14

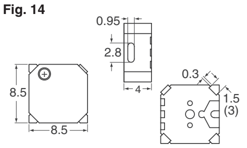

Fig. 15

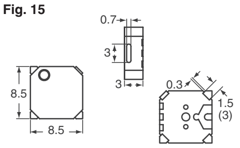

Fig. 16

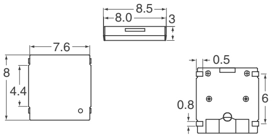

Fig. 17

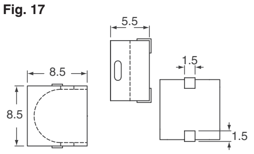

Fig. 18

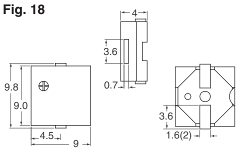

Fig. 19

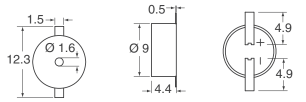

Fig. 20

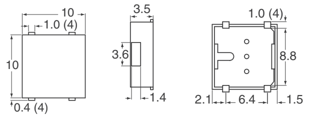

Fig. 21

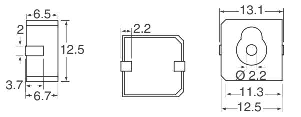

Fig. 22

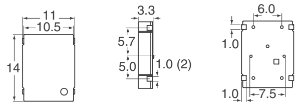

Fig. 23

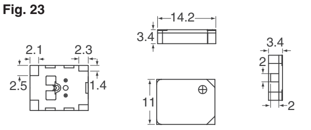

Fig. 24

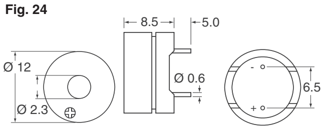

Fig. 25

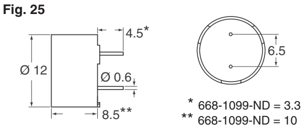

* 668-1099-ND = 3.3
** 668-1099-ND = 10

Fig. 26

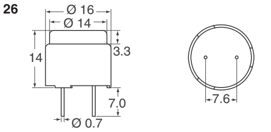

Fig.	Operating Voltage (Vpp)	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Projects Unlimited Part No.
						Piezo Audio Transducers — External Drive Type							
1	1 ~ 20	3.8	80	1.0	PCB Pin	668-1101-ND‡	2.12	1.93	1.54	—	—	—	AT-1438-TWT-R
2	1 ~ 30	4.0	78	3.0	PCB Pin	668-1111-ND‡	1.68	1.34	1.11	—	—	—	AT-1740-TT-R
3	1 ~ 30	3.5	75	3.0	PCB Pin	668-1102-ND‡	1.79	1.63	1.30	—	—	—	AT-2235-TT-R
4	1 ~ 30	4.0	80	1.0	PCB Pin	668-1103-ND‡	1.79	1.63	1.30	—	—	—	AT-2440-TWT-R
5	3 ~ 28	3.0	93	8.0	PCB Pin	668-1105-ND‡	2.28	2.08	1.66	—	—	—	AT-2830-TWT-R
6	1 ~ 25	4.1	75	5.0	SMD	668-1108-1-ND	3.84	3.20	2.56	668-1108-2-ND	1,000	1856.00	SMT-1341-T-R
7	1 ~ 25	4.0	70	3.0	SMD	668-1110-1-ND	2.61	2.18	1.74	668-1110-2-ND	800	1009.60	SMT-1640-S-R
8	1 ~ 25	4.1	73	2.9	SMD	668-1205-1-ND	3.87	3.23	2.58	668-1205-2-ND	2,000	1871.00/M	SMT-1141-T-3-R
9	1 ~ 30	4.0	90	3.0	SMD	668-1109-1-ND	3.21	2.68	2.14	668-1109-2-ND	300	513.60	SMT-2240-TW-R
						Magnetic Audio Transducers — External Drive Type							
10	2 ~ 4	4.0	78	100	SMD	668-1060-1-ND	3.51	2.93	2.34	668-1060-2-ND	2,000	1697.00/M	SMT-0540-S-R
11	2 ~ 4	4.0	78	100	SMD	668-1207-1-ND ***NEW!***	3.99	3.33	2.66	668-1207-2-ND	2,000	1929.00/M	SMT-0540-T-7-R
12	2 ~ 4	4.0	78	100	SMD	668-1061-1-ND	3.66	3.05	2.44	668-1061-2-ND	2,000	1769.00/M	SMT-0540-T-2-R
13	2 ~ 5	2.7	85	120	SMD	668-1062-1-ND	4.47	3.73	2.98	668-1062-2-ND	1,000	2161.00	SMT-0727-S-R
14	2 ~ 5	2.1	87	90	SMD	668-1065-1-ND▲	4.47	3.73	2.98	668-1065-2-ND▲	1,000	2161.00	SMT-0821-T-R
14	3 ~ 7	2.3	87	70	SMD	668-1066-1-ND	4.47	3.73	2.98	668-1066-2-ND	1,000	2161.00	SMT-0823-S-R
14	2.5 ~ 4.5	2.5	87	90	SMD	668-1067-1-ND	4.47	3.73	2.98	668-1067-2-ND	1,000	2161.00	SMT-0825-S-2-R
14	2.5 ~ 4.5	2.5	87	90	SMD	668-1070-1-ND▲	4.47	3.73	2.98	668-1070-2-ND▲	1,000	2161.00	SMT-0825-T-R
14	2.5 ~ 4.5	2.7	87	90	SMD	668-1072-1-ND	4.47	3.73	2.98	668-1072-2-ND	1,000	2161.00	SMT-0827-S-2-R
14	2 ~ 5	3.6	90	90	SMD	668-1075-1-ND	4.47	3.73	2.98	—	—	—	SMT-0836-S-R
15	2.5 ~ 4.5	2.5	85	90	SMD	668-1068-1-ND	4.47	3.73	2.98	668-1068-2-ND	1,000	2161.00	SMT-0825-S-4-R
15	2.5 ~ 4.5	2.7	85	90	SMD	668-1069-1-ND▲	4.47	3.73	2.98	668-1069-2-ND▲	1,000	2161.00	SMT-0825-T-2-R
16	2.5 ~ 4.5	2.63	90	90	SMD	668-1071-1-ND	4.47	3.73	2.98	668-1071-2-ND	1,000	2161.00	SMT-0826-S-R
16	2.5 ~ 4.5	2.7	85	100	SMD	668-1074-1-ND	4.47	3.73	2.98	668-1074-2-ND	1,000	2161.00	SMT-0827-S-R
17	2.5 ~ 4.5	2.73	85	60	SMD	668-1193-1-ND	4.47	3.73	2.98	668-1193-2-ND	600	1296.60	SMT-0827-SW-3V-R
17	4 ~ 6	2.73	85	80	SMD	668-1194-1-ND	4.47	3.73	2.98	668-1194-2-ND	600	1296.60	SMT-0827-SW-5V-R

‡ Tray § Tube ▲ Top Sound Port

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Audio Transducers *(Cont.)*

Fig.	Operating Voltage (Vpp)	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Projects Unlimited Part No.
18	3 ~ 7	2.73	85	80	SMD	668-1078-1-ND	4.92	4.10	3.28	668-1078-2-ND	1,000	2378.00	SMT-0927-S-5-R
19	2 ~ 4	2.73	85	80	SMD	668-1079-1-ND	4.92	4.10	3.28	668-1079-2-ND	800	1902.40	SMT-0927-T-R
20	3 ~ 4.6	2.83	93	100	SMD	668-1084-1-ND	4.17	3.48	2.78	668-1084-2-ND	1,000	2016.00	SMT-1028-S-R
20	3 ~ 4.6	2.83	90	100	SMD	668-1085-1-ND▲	4.17	3.48	2.78	668-1085-2-ND▲	1,000	2016.00	SMT-1028-T-R
21	1 ~ 3	2.4	80	30	SMD	668-1089-5-ND§	3.52	3.20	2.56	—	—	—	SMT-1324-TW-1V-R
21	4 ~ 8	2.4	85	40	SMD	668-1090-5-ND§	3.52	3.20	2.56	—	—	—	SMT-1324-TW-5V-R
22	3 ~ 4.5	2.7	87	90	SMD	668-1093-1-ND	5.97	4.98	3.98	668-1093-2-ND	1,000	2886.00	SMT-1427-S-3-R
23	3 ~ 7	2.7	85	80	SMD	668-1095-1-ND	5.97	4.98	3.98	668-1095-2-ND	1,000	2886.00	SMT-1427-S-R
23	3 ~ 7	2.7	85	80	SMD	668-1096-1-ND▲	5.97	4.98	3.98	668-1096-2-ND▲	1,000	2886.00	SMT-1427-T-R
24	1 ~ 3	2.048	85	10	PCB Pin	668-1097-ND‡	1.07	.98	.78	—	—	—	AT-1220-TT-R
25	3 ~ 8	2.4	85	40	PCB Pin	668-1098-ND‡	1.43	1.30	1.04	—	—	—	AT-1224-TWT-R
25	1 ~ 1.7	2.8	85	40	PCB Pin	668-1099-ND‡	1.43	1.30	1.04	—	—	—	AT-1228-TT-R
26	4 ~ 8	2.048	85	40	PCB Pin	668-1100-ND‡	1.84	1.68	1.34	—	—	—	AT-1620-TWT-R

‡ Tray § Tube ▲ Top Sound Port

Magnetic Audio Transducers

Dimensions in mm

Fig. 1

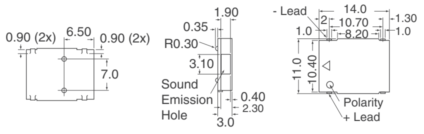

Fig. 2

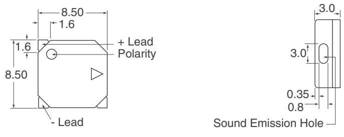

Fig. 3

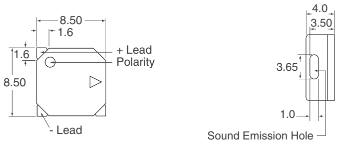

Fig. 4

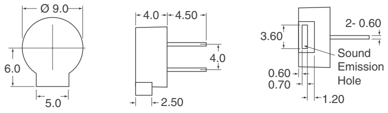

Fig. 5

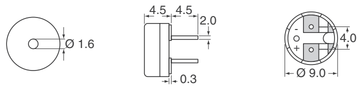

Fig. 6

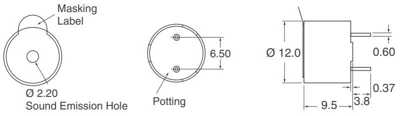

Fig. 7

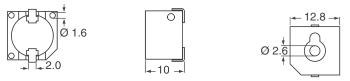

Fig. 8

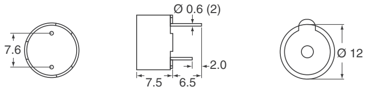

Fig. 9

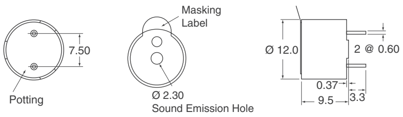

Fig. 10

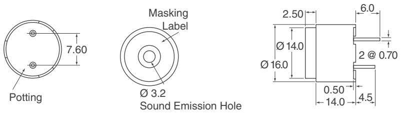

Fig. 11

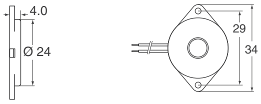

Fig. 12

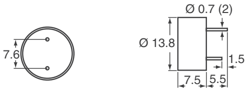

Fig.	Rated Frequency (kHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Soberton Part No.
Reflowable SMD Type — External Drive															
1	2.73	2 ~ 4	89dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1001-1-ND‡	3.12	2.60	2.08	1.73	433-1001-2-ND	—	—	ST-01BH
2	2.30	2 ~ 4	87dB min. @ 2.30kHz	70 max.	-30 ~ 85	SMD	433-1005-1-ND◆‡	3.43	2.35	1.87	1.68	433-1005-2-ND◆	1,000	1463.00	ST-03BL
	2.73	2 ~ 4	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1006-1-ND◆‡	3.43	2.35	1.87	1.68	433-1006-2-ND◆	1,000	1463.00	ST-03BH
	2.73	4 ~ 6	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1007-1-ND◆‡	3.43	2.35	1.87	1.68	433-1007-2-ND◆	1,000	1463.00	ST-03CH
3	2.73	2 ~ 4	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1009-1-ND◆‡	3.43	2.35	1.87	1.68	433-1009-2-ND◆	1,000	1463.00	ST-04BH
	3.20	2 ~ 4	87dB min. @ 3.20kHz	70 max.	-30 ~ 85	SMD	433-1010-1-ND◆‡	3.43	2.35	1.87	1.68	433-1010-2-ND◆	1,000	1463.00	ST-04BT
	2.73	4 ~ 6	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1011-1-ND◆‡	3.43	2.35	1.87	1.68	433-1011-2-ND◆	1,000	1463.00	ST-04CH
Non-Washable Type — External Drive — RoHS Compliant															
4	2.73	2 ~ 4	90dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1013-ND	1.27	.79	.58	.51	—	—	—	GT-0930RP2
	3.10	4 ~ 6	90dB min. @ 3.10kHz	80 max.	-20 ~ 60	PCB	433-1014-ND	1.27	.79	.58	.51	—	—	—	GT-0950RP3
5	2.73	2 ~ 4	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1032-ND	1.27	.79	.59	.53	—	—	—	GT-0903A
	2.73	4 ~ 6	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1033-ND	1.35	.84	.61	.54	—	—	—	GT-0905A
Washable Type — External Drive — RoHS Compliant															
6	2.4 ±.2	1 ~ 2	85dB min. @ 2.40kHz	35 max.	-30 ~ 85	PCB	433-1027-ND	.87	.51	.35	.30	—	—	—	WT-1201
	2.4 ±.2	4 ~ 6	87dB min. @ 2.40kHz	40 max.	-30 ~ 85	PCB	433-1028-ND	.87	.51	.35	.30	—	—	—	WT-1205

◆ ***RoHS Compliant*** ‡ Cut Tape

(Continued)

Soberton Inc. Magnetic Audio Transducers *(Cont.)*

Fig.	Rated Frequency (kHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Soberton Part No.
Washable Type — Self-Contained Drive — RoHS Compliant															
7	2.4 ±.4	1.4 ~ 3	>75dB min. @ 2.40kHz	<20	-20 ~ 70	SMD	433-1043-1-ND‡	3.06	2.04	1.67	—	433-1043-2-ND	320	499.52	WST-1310S -1
	2.3 ±.3	4 ~ 7	>85dB min. @ 2.30kHz	<30	-20 ~ 70	SMD	433-1044-1-ND‡	3.06	2.04	1.67	—	433-1044-2-ND	320	499.52	WST-1310S -2
	2.3 ±.3	8 ~ 15	>85dB min. @ 2.30kHz	<30	-20 ~ 70	SMD	433-1045-1-ND‡	3.06	2.04	1.67	—	—	—	—	WST-1310S -3
8	3.10	1.4 ~ 2	>75dB @ 3.10kHz	<25	-20 ~ 70	PCB	433-1079-ND	1.81	1.18	.90	.80	—	—	—	WST-1201BX
	2.3 ±.5	2 ~ 5	>82dB @ 2.30kHz	<30	-20 ~ 70	PCB	433-1047-ND	1.81	1.18	.90	.80	—	—	—	WST-1203UX
9	2.3 ±.2	4 ~ 6	85dB min. @ 2.30kHz	30 max.	-20 ~ 60	PCB	433-1029-ND	1.81	1.18	.90	.80	—	—	—	WST-1205S
10	2.3 ±.3	8 ~ 16	85dB min. @ 2.30kHz	30 max.	-20 ~ 60	PCB	433-1030-ND	2.30	1.50	1.15	1.01	—	—	—	WST-1612S
Piezoelectric Buzzers — RoHS Compliant															
External Drive Circuit															
11	5.5 ±0.7	1 ~ 30	≥90 @ 5.5	≤8	-20 ~ 70	Wire	433-1054-ND	1.13	.66	.46	.39	—	—	—	PT-2404
Drive Circuit Built-In															
12	4.0 ±0.5	3 ~ 16	≥80 @ 4.0	≤7	-20 ~ 70	PCB	433-1065-ND	3.32	2.16	1.66	1.47	—	—	—	PB-1408-1
	4.8 ±0.4	3 ~ 16	≥85 @ 4.8	≤10	-20 ~ 70	PCB	433-1066-ND	3.32	2.16	1.66	1.47	—	—	—	PB-1408-2

◆ ***RoHS Compliant*** ‡ Cut Tape

muRata Piezoelectric Buzzers

Innovator in Electronics

Dim. in mm

Fig. 1

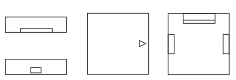

Fig. 2

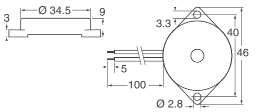

Fig. 3

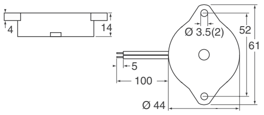

Fig. 4

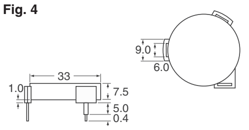

Fig. 5

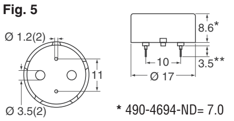

* 490-4694-ND= 7.0
** 490-4694-ND= 6.5

Fig. 6

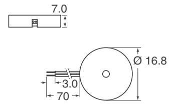

Fig. 7

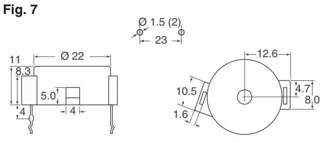

Fig. 8

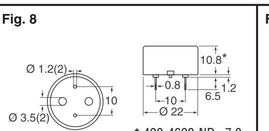

* 490-4692-ND= 7.0

Fig. 9

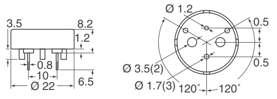

Fig. 10

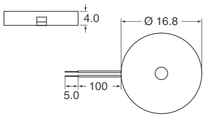

Fig. 11

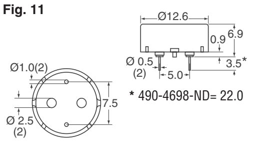

* 490-4698-ND= 22.0

Fig. 12

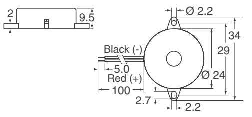

Fig. 13

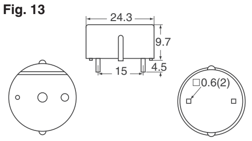

Fig. 14

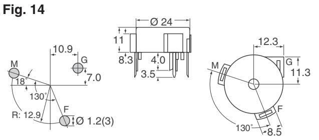

Fig. 15

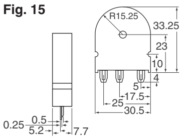

Fig.	Resonant Frequency (kHz)	Operating Voltage Maximum	Minimum SPL (dB)	Capacitance (pF)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	2.0	25Vp-p	70	—	-20 ~ 70	SMD	490-5260-1-ND‡	2.06	1.79	1.66	PKLCS1212E2000-R1
	2.0	25Vp-p	70	—	-20 ~ 70	SMD	490-5260-2-ND†		963.00/1,000		PKLCS1212E2000-R1
	2.0	25Vp-p	70	—	-40 ~ 85	SMD	490-5261-1-ND‡	2.17	1.88	1.74	PKLCS1212E20A0-R1
	2.0	25Vp-p	70	—	-40 ~ 85	SMD	490-5261-2-ND†		1012.00/1,000		PKLCS1212E20A0-R1
	4.0	25Vp-p	75	—	-20 ~ 70	SMD	490-4683-1-ND‡	1.79	1.56	1.44	PKLCS1212E4001-R1
	4.0	25Vp-p	75	—	-20 ~ 70	SMD	490-4683-2-ND†		837.00/1,000		PKLCS1212E4001-R1
	4.0	25Vp-p	75	—	-40 ~ 85	SMD	490-5262-1-ND‡	1.89	1.64	1.51	PKLCS1212E40A1-R1
	4.0	25Vp-p	75	—	-40 ~ 85	SMD	490-5262-2-ND†		880.00/1,000		PKLCS1212E40A1-R1
2	1.1	40Vp-p	70	40,000	-20 ~ 70	Wire	490-4684-ND	2.26	1.88	1.46	PKM34EWH1101C
	1.2	60Vp-p	70	32,000	-20 ~ 70	Wire	490-4685-ND	1.88	1.56	1.21	PKM34EWH1201C
3	1.0	30Vp-p	75	68,000	-20 ~ 70	Wire	490-4686-ND	2.82	2.34	1.82	PKM44EWH1001C
4	1.2	40Vp-p	68	40,000	-20 ~ 70	PCB Pin	490-4687-ND	3.20	2.66	2.06	PKM33EPH1201C
5	2.0	25Vp-p	70	34,000	-20 ~ 70	PCB Pin	490-4688-ND	1.17	.97	.75	PKM17EPP-2002-B0
	4.0	25Vp-p	72	7,000	-20 ~ 70	PCB Pin	490-4694-ND	.92	.77	.60	PKM17EPPH4001-B0
6	2.0	7.0Vp-p	72	40,000	-20 ~ 70	Wire	490-4689-ND	2.87	2.38	1.85	PKM17EWH2001
7	2.0	25Vp-p	75	17,000	-20 ~ 70	PCB Pin	490-4690-ND	1.48	1.23	.96	PKM22EPH2001
8	2.0	25Vp-p	70	19,000	-20 ~ 70	PCB Pin	490-4691-ND	1.04	.87	.68	PKM22EPPH2001-B0
	4.0	25Vp-p	75	12,000	-20 ~ 70	PCB Pin	490-4692-ND	1.09	.91	.70	PKM22EPPH4001-B0
	4.0	25Vp-p	85	12,000	-20 ~ 70	PCB Pin	490-4695-ND	1.19	.99	.77	PKM22EPPH4007-B0
9	4.0	25Vp-p	75	12,000	-20 ~ 70	PCB Pin	490-4693-ND	1.04	.87	.67	PKM22EPPH4005-B0
10	4.0	25Vp-p	75	9,500	-20 ~ 70	Wire	490-4696-ND	1.80	1.50	1.16	PKM17EWH4000
11	4.0	30Vp-p	70	5,500	-40 ~ 85	PCB Pin	490-4697-ND	.66	.55	.43	PKM13EPYH4002-B0
	4.0	30Vp-p	70	5,500	-40 ~ 85	PCB Pin	490-4698-ND	.53	.45	.35	PKM13EPYH4000-A0
12	3.3	20VDC	80	—	-20 ~ 70	Wire	490-4701-ND	6.17	5.11	3.97	PKB24SWH3301
13	3.6	15VDC	90	—	-20 ~ 70	PCB Pin	490-4702-ND	4.24	3.52	2.73	PKB24SPCH3601-B0
14	3.8	20VDC	90	—	-20 ~ 70	PCB Pin	490-4703-ND	1.78	1.48	1.15	PKM24SPH3805
15	2.5	20VDC	75	—	-20 ~ 70	PCB Pin	490-4704-ND	3.15	2.61	2.03	PKM30SPTH2501-B0

‡ Cut Tape † Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Piezo Transducers

Dim. in mm

Fig. 1

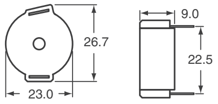

Fig. 2

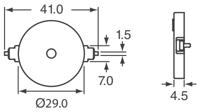

Fig. 3

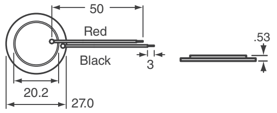

Fig.	Resonant Frequency (kHz)	Input Voltage Maximum	Minimum SPL (dB)	Resonant Impedance (Ω)	Static Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
1	2.048	30Vp-p	69	—	24,000	478-4762-ND	1.70	1.15	.89	KBS-20DB-2P-10
1	2.048	30Vp-p	75	—	24,000	478-4763-ND	.98	.66	.51	KBS-20DB-2P-9
2	3.0	30Vp-p	75	—	20,000	478-4765-ND	1.43	.97	.75	KBS-27DB-3T
3	4.6	30Vp-p	—	1,500	20,000	478-4764-ND	.91	.62	.48	KBS-27DA-5C-105

SUSUMU

THIN FILM TECHNOLOGY

20mm Ultra Thin Lightweight Piezo Speaker

Dim. in mm

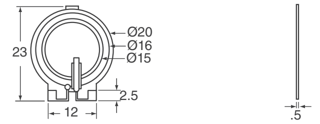

Resonant Frequency (Hz)	Maximum Applied Voltage	Sound Pressure Level	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	Susumu Part No.
850 ~ 1250	10	>72dB	-30 ~ 60	SMD	408-1321-ND	7.08	5.18	4.22	HAP-BME-20-13N01

pui audio inc
a projects unlimited company

Electret Condenser Microphones

Fig. 1

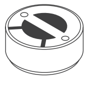

Fig. 2

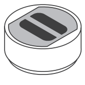

Fig. 3

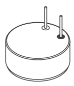

Fig. 4

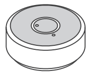

Fig. 5

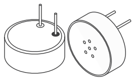

Fig. 6

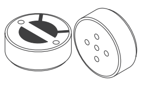

Fig. 7 ***NEW!***

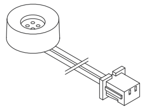

Fig.	Physical Size (mm)	Sensitivity (dB)	Built-In Capacitor	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
					Uni-directional				
1	6.0 x 3.0	-46	—	55	668-1174-ND	3.01	2.15	1.60	PUM-3046L-R
	6.0 x 3.5	-46	—	55	668-1175-ND	3.01	2.15	1.60	PUM-3546L-R
					Noise Canceling				
1	4.5 x 3.0	-54	—	55	668-1178-ND	3.54	2.53	1.87	TNM-3054L-R
	6.0 x 2.7	-51	—	55	668-1143-ND	3.15	2.25	1.67	PNM-2751L-R
	6.0 x 3.5	-46	—	60	668-1144-ND	3.15	2.25	1.67	PNM-3546L-R
					Omni-directional				
1	4.0 x 1.5	-45	—	60	668-1183-ND	3.54	2.53	1.87	TOM-1545L-R
	4.5 x 3.0	-46	—	60	668-1187-ND	3.54	2.53	1.87	TOM-3046L-R
	9.7 x 6.7	-42	—	60	668-1195-ND	1.58	1.13	.84	AOM-6742L-R
2	6.0 x 2.2	-46	33pF	60	668-1151-ND	2.94	2.10	1.56	POM-2246L-C33-R
	6.0 x 2.7	-38	—	60	668-1156-ND	2.94	2.10	1.56	POM-2738L-R
	6.0 x 2.7	-42	—	60	668-1159-ND	2.94	2.10	1.56	POM-2742L-2-R
	6.0 x 3.0	-42	—	60	668-1165-ND	2.63	1.88	1.39	POM-3042L-R
	6.0 x 3.0	-46	—	60	668-1167-ND	2.63	1.88	1.39	POM-3046L-R
	6.0 x 3.5	-42	—	60	668-1169-ND	2.63	1.88	1.39	POM-3542L-R
	6.0 x 3.5	-46	—	60	668-1171-ND	2.63	1.88	1.39	POM-3546L-R
	4.0 x 1.5	-45	—	60	668-1184-ND	3.54	2.53	1.87	TOM-1545P-R
3	6.0 x 2.2	-42	33pF	60	668-1149-ND	2.94	2.10	1.56	POM-2242P-C33-R
	6.0 x 2.2	-46	—	60	668-1152-ND	2.94	2.10	1.56	POM-2246P-2-R
	6.0 x 2.2	-46	33pF	60	668-1153-ND	2.94	2.10	1.56	POM-2246P-C33-R
	6.0 x 2.7	-35	—	60	668-1155-ND	2.94	2.10	1.56	POM-2735P-R
	6.0 x 2.7	-38	—	60	668-1158-ND	2.94	2.10	1.56	POM-2738P-R
	6.0 x 2.7	-38	33pF	60	668-1157-ND	2.94	2.10	1.56	POM-2738P-C33-R
	6.0 x 2.7	-42	—	60	668-1160-ND	2.94	2.10	1.56	POM-2742P-2-R
	6.0 x 2.7	-42	33pF	60	668-1161-ND	2.94	2.10	1.56	POM-2742P-C33-R
	6.0 x 2.7	-46	—	60	668-1164-ND	2.94	2.10	1.56	POM-2746P-R
	6.0 x 3.0	-42	—	60	668-1166-ND	2.63	1.88	1.39	POM-3042P-R
	6.0 x 3.0	-46	—	60	668-1168-ND	2.63	1.88	1.39	POM-3046P-R
	6.0 x 3.5	-42	—	60	668-1170-ND	2.63	1.88	1.39	POM-3542P-R
	6.0 x 3.5	-46	—	60	668-1172-ND	2.63	1.88	1.39	POM-3546P-R
	9.4 x 6.5	-45	—	60	668-1198-ND	1.58	1.13	.84	AOM-6545P-R
	9.7 x 4.5	-44	—	60	668-1197-ND	1.58	1.13	.84	AOM-4544P-2-R
	9.7 x 6.7	-42	—	60	668-1196-ND	1.58	1.13	.84	AOM-6742 -2-R
4	4.0 x 1.5	-45	33pF	60	668-1185-ND	3.54	2.53	1.87	TOM-1545S-C33-R
	4.0 x 1.5	-45	—	60	668-1186-ND	3.54	2.53	1.87	TOM-1545S-R
	6.0 x 2.2	-46	—	60	668-1154-ND	2.94	2.10	1.56	POM-2246S-2-R
5	5.8 x 2.2	-38	—	60	668-1176-ND	3.15	2.25	1.67	ROM-2238P-NF-R
6	4.0 x 1.2	-42	—	60	668-1181-ND	3.54	2.53	1.87	TOM-1242L-NF-R
7	6.0 x 1.6	-44	—	60	668-1210-ND ***NEW!***	5.32	3.80	2.82	POW-1644L-LWC50-B-R

Panasonic® Electret Condenser Microphone Cartridges

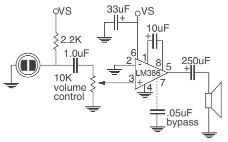

Consists of a high voltage internal electret membrane, metal electrode and a Field Effect Transistor (FET). Doesn't need a high-voltage bias from the outside like ordinary condenser microphones. **Features:** Highly efficient electrical specification, pressure type operating principle, low impedance (2.2kΩ), omnidirectional back directivity and a high degree of reliability under adverse shock, vibration and environmental tests. **Applications:** Telephone and telephone answering devices, tape recorders, intercoms, computer modems, completed microphones for recording, testing and monitoring, hearing aids, sonic controlled toys and sensors and others. All buzzers and microphones are non-washable.

Fig. 1

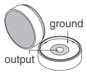

Fig. 2

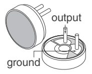

Fig. 3

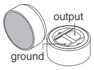

Fig. 4

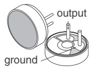

Fig. 5

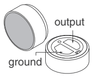

Fig. 6

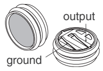

Fig. 7

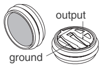

Fig. 8

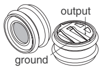

Fig. 9

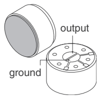

Fig. 10

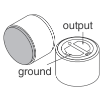

Fig. 11

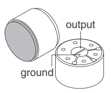

Fig.	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Frequency Range (Hz)	Operating Voltage Max./Std.	Current Consumption Max.	Sensitivity Reduction	S/N Ratio	Digi-Key Part No.	Price Each 1	25	100	Panasonic Part No.
						Omni-Directional						
1	ø6.0 x 1.3	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11958-ND†	2.82	2.27	2.07	WM-63GNT
	ø6.0 x 2.2	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11965-ND◆†	2.18	1.77	1.59	WM-64MNT
2	ø6.0 x 1.3	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11961-ND◆	3.24	2.61	2.38	WM-63PRT
3	ø6.0 x 2.2	-45dB ±4dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9955-ND◆†	2.12	1.72	1.54	WM-64C
	ø6.0 x 2.2	-45dB ±4dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9958-ND◆†	2.10	1.70	1.53	WM-64K
4	ø6.0 x 2.2	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11969-ND◆†	2.60	2.10	1.89	WM-64PNT
5	ø6.0 x 3.4	-35dB ±4dB	20 ~ 20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P9925-ND◆	1.92	1.56	1.40	WM-61A
6	ø7.7 x 3.3	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11959-ND	4.64	3.73	3.40	WM-63GNT330
7	ø7.5 x 2.4	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11960-ND	4.67	3.76	3.43	WM-63GNT335
8	ø7.7 x 4.0	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11966-ND	3.64	2.93	2.67	WM-64MNT330A
						Uni-Directional — RoHS Compliant						
9	ø9.7 x 5.0	-47dB ±4dB	100 ~ 16k	10V/1.5V	0.5mA	within -3dB @ 1V	>60dB	P9961-ND	2.60	2.10	1.89	WM-55A103
10	ø6.0 x 5.0	-50dB ±4dB	100 ~ 12k	10V/2V	0.5mA	within -3dB @ 1.5V	>55dB	P9964-ND	2.18	1.77	1.59	WM-65A103
						Noise Cancelling — RoHS Compliant						
11	ø9.7 x 5.0	-54dB ±4dB	100 ~ 10k	10V/1.5V	0.5mA	within -3dB @ 1V	>58dB	P9897-ND	2.86	2.31	2.08	WM-55D103

◆ *RoHS Compliant* † With built-in cap

KNOWLES ACOUSTICS Electret Condenser Microphone

RoHS COMPLIANT

Applications: • Headsets • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics

Features: • Operating Temperature: -25°C ~ 55°C • Highly efficient electrical specifications • Provide good acoustic performance and reliability under typical environmental conditions • Industry standard sizes • Omni, Uni, and Noise Canceling • Integrated RF filtering • Multiple terminations available - Solderless, Pin Type, and PCB

Physical Size (mm)	Sensitivity @1kHz (dB re 1V/Pa)	Freq. Range (Hz)	Stan. Operat. Volt.	Max. Operat. Volt.	Max. Current Consumption (mA)	S/N Ratio	Built-in Capacitor	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
					Omni-Directional							
ø9.7 x 4.5	-44 ±2	100 ~ 10K	2.0	10	0.500	>55dB	None	423-1023-ND	.69	.60	.52	MD9745APZ-F

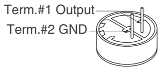

CUI INC Electret Condenser Microphones

RoHS COMPLIANT

Fig.	Physical Size (mm)	Sensitivity (dB)	Standard Operating Voltage	Built-In Capacitor	S/N Ratio (dB)	Max. Current Consumption (mA)	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
					Omni-Directional						
1	ø9.7 x 6.5	-42	4.5	—	60	0.5	102-1720-ND	.81	.70	.54	CMA-6542PF
	ø9.7 x 4.5	-44	3	—	60	0.5	102-1721-ND	.66	.57	.44	CMA-4544PF-W
	ø9.4 x 6.5	-44	4.5	—	60	0.5	102-1722-ND	.72	.63	.48	CMB-6544PF
	ø6.0 x 5.0	-42	2	—	56	0.5	102-1724-ND	.96	.83	.64	CMC-5042PF-AC
	ø6.0 x 5.0	-44	2	—	56	0.5	102-1725-ND	.96	.83	.64	CMC-5044PF-A
	ø6.0 x 2.7	-42	2	33pF	58	0.4	102-1726-ND	1.71	1.48	1.14	CMC-2742PBJ-A
	ø6.0 x 2.2	-42	2	33pF, 10pF	58	0.5	102-1727-ND	1.77	1.53	1.18	CMC-2242PBL-A
2	ø6.0 x 5.0	-44	2	—	60	0.5	102-1723-ND	.90	.78	.60	CMC-5044TF-A
3	ø9.7 x 6.5	-42	1.5	—	58	0.5	102-1719-ND	.66	.57	.44	CMA-6542TF-K
4	ø6.0 x 4.1	-42	2	33pF, 10pF	57	0.5	102-1732-ND	2.10	1.83	1.40	CMC-2742WBL-25L
	ø4.0 x 2.9	-38	2	—	58	0.5	102-2190-ND ***NEW!***	3.77	3.43	2.74	CME-1538-100LB
					Noise-Cancelling						
1	ø6.0 x 2.7	-47	2	—	56	0.5	102-1731-ND	2.22	1.93	1.48	CMR-2747PB-A
5	ø9.7 x 5.2	-47	1.5	—	58	0.5	102-1729-ND	2.46	2.14	1.64	CMP-5247TF-K
6	ø6.0 x 5.0	-54	2	—	56	0.5	102-1730-ND	2.34	2.03	1.56	CMR-5054TB-A
					Uni-Directional						
5	ø9.7 x 5.2	-47	1.5	—	60	0.5	102-1728-ND	1.77	1.53	1.18	CMI-5247TF-K
	ø9.7 x 4.5	-37	1.5	—	69	0.4	102-2191-ND ***NEW!***	2.97	2.70	2.16	CMI-4537-SN69

Fig. 1

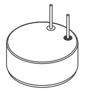

Fig. 2

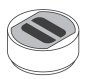

Fig. 3

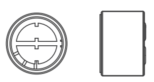

Fig. 4

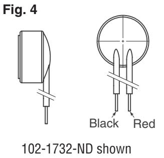

102-1732-ND shown

Fig. 5

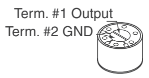

Fig. 6

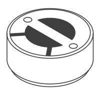

High Performance Audio Products

Omni-Directional Electret Microphones

Dim. in mm

EK Series: • Integral FET amplifier • High electroacoustic sensitivity • Low vibration sensitivity • Low noise • 3-Wire configuration **EA Series:** • High resistance to mechanical shock • Rugged construction to withstand severe environmental conditions **FG Series:** • Integral FET amplifier • Wide, flat frequency response • Low noise performance • High electroacoustic sensitivity • 3-Wire configuration **EM Series:** • Integral FET amplifier • High electroacoustic sensitivity • Low vibration sensitivity • Low Noise • Small size **WP Series:** • Integral FET amplifier • High electroacoustic sensitivity • Low noise • Low vibration sensitivity • Flat response down to very low frequency • Survives submersion in water • 3-Wire configuration

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	Sensitivity @ 1kHz (dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Output Imped. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1098-ND◆†	22.73	19.56	16.92	EK-23024-P07
	—	-59 ±3	1.3 ~ 10	50	28.5 dB	3500	423-1124-ND◆	20.04	17.25	14.92	EA-21842-C36
	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1121-ND◆	20.85	17.95	15.52	EK-23024-C36
2	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1099-ND◆	22.73	19.56	16.92	EK-23133-C36
3	-33 ±3	-53 ±3	1.3 ~ 10	50	26.0 dB	4400	423-1008-ND◆	21.59	18.59	16.08	EK-23132-000
4	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1120-ND◆	20.85	17.95	15.52	EK-23027-C36
5	-33 ±3	—	0.9 ~ 1.6	50	28.0 dB	4400	423-1064-ND◆•	29.42	25.32	21.90	FG-3629-P16
	—	-53 ±3	1.3 ~ 1.6	50	30.0 dB	4400	423-1119-ND◆	29.42	25.32	21.90	FG-23329-C05-D65
	-43 ±3	—	0.9 ~ 1.6	50	30.0 dB	4400	423-1068-ND•	29.42	25.32	21.90	FG-3742-D36
	—	-53 ±3	1.3 ~ 1.6	50	28.0 dB	4400	423-1123-ND◆	29.42	25.32	21.90	FG-23629-C36-D65
6	-36 ±3	—	0.9 ~ 10	50	31.0 dB	4400	423-1062-ND◆•	25.91	22.30	19.29	EM-3046-P16
	—	-56 ±3	1.3 ~ 10	50	31.0 dB	4400	423-1122-ND◆	25.91	22.30	19.29	EM-23046-C36
7	-33 ±3	—	0.9 ~ 1.6	50	28.0 dB	4400	423-1065-ND◆	29.42	25.32	21.90	FG-3652-C36-D65
	-33 ±3	—	0.9 ~ 1.6	50	28.0 dB	4400	423-1066-ND◆•	29.42	25.32	21.90	FG-3652-P16
Waterproof Microphones											
8	-34 ±3	-54 ±3	1.0 ~ 10	50	26.0 dB	4400	423-1012-ND◆	32.04	27.58	23.85	WP-23502-000
	-32 ±3	-52 ±3	1.3	50	26.0 dB	4400	423-1132-ND◆† ***NEW!***	45.63	30.73	26.58	WP-23502-P07
	-34 ±3	-54 ±3	1.0 ~ 10	50	28.0 dB	4400	423-1054-ND•	35.71	30.73	26.58	WP-3502-P16

◆ ***RoHS Compliant*** • Has 1 inch long leads † Has 39.37 inch long leads

Fig. 1

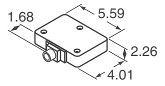

Fig. 2

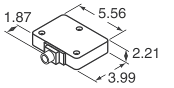

Fig. 3

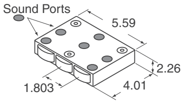

Fig. 4

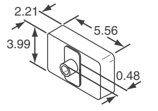

Fig. 5

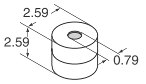

Fig. 6

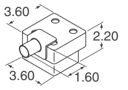

Fig. 7

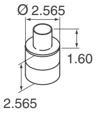

Fig. 8

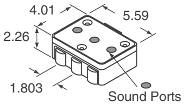

Noise-Canceling Close Talking Microphones

Dim. in mm

NR Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Small size • High electroacoustical sensitivity • Low vibration sensitivity

CF Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Withstands severe environmental conditions • Sound ports protected by woven mesh treated with water repellent • High resistance to mechanical shock

WP Series: • Integral FET amplifier • Survives submersion in 1m water • Corrosion resistant • Withstands explosive decompression • High resistance to mechanical shock • Small size

Fig. 1

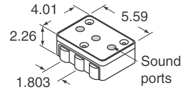

Fig. 2

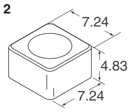

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	Sensitivity @ 1kHz (dB re 1V/0.1 Pa)	Microphone Configuration	DC Supply (V)	Max. Amplifier Current Drain (µA)	Nominal Output Imp. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	-32 ±3	-52 ±3	2-Wire	1.0 ~ 10	200	2500	423-1010-ND	21.36	18.39	15.90	NR-23160-000
2	-42 ±3	-62 ±3	3-Wire	1.0 ~ 10	50	3500	423-1014-ND	27.05	23.28	20.13	CF-2949
Waterproof Microphone											
1	-34 ±3	-54 ±3	2-Wire	1.0 ~ 10	300	2500	423-1011-ND	32.04	27.58	23.85	WP-23501-000

Piezo Ceramic, Accelerometer, Magnetic Balanced Armature

Dim. in mm

BL Series: • High sensitivity • Wide frequency range and flat response • Integral FET amplifier • High resistance to mechanical shock • BL-1785 typically used for instrumentation applications • 3-Wire configuration
BU Series: • Ceramic vibration transducer • High vibration sensitivity and small size • Wide frequency range • Integral FET preamplifier • 2 or 3-Wire configuration
BJ Series: • Balanced armature technology • High efficiency, stability and reliability • Self-shielded against external magnetic fields • Small size • Omni-directional • 2-Wire configuration

Fig. 1

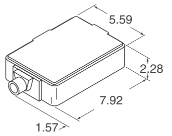

Fig. 2

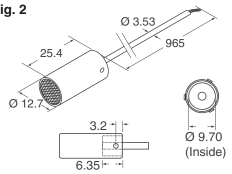

Fig. 3

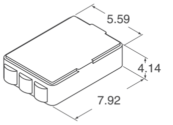

Fig. 4

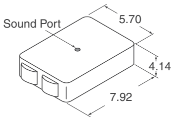

Fig.	(dB re 1V/Pa)	Sensitivity @ 1kHz (dB re 1V/0.1 Pa)	Sensitivity @ 1kHz (dB re 1V/g)	DC Supply Voltage	Nominal DC Res. (Ω)	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Output Imp. @ 1kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Piezo Ceramic Microphones													
1	-49 ±3	-69 ±3	—	1.3	—	160	34.0dB	4000	423-1003-ND	91.81	79.01	68.33	BL-21785-000
2	-49 ±3	-69 ±3	—	3.0	—	160	34.0dB	4000	423-1002-ND	163.91	141.04	121.98	BL-21994-000
3	—	-54.5 ±3	—	1.3	—	50	32.0dB	13000	423-1097-ND◆	58.72	50.53	43.71	BL-21671-140
Accelerometer (Vibration-Sensing Transducer)													
3	—	—	-45.0 ±4.5	1.5 ~ 10	—	50	—	5200	423-1004-ND	51.13	44.00	38.06	BU-21771-000
Magnetic Balanced Armature													
4	-55.5 ±3	-75.5 ±3	—	—	900	—	—	3900	423-1001-ND	35.25	30.33	26.24	BJ-21590-000

◆ ***RoHS Compliant***

Waterproof Acoustical Transducers

Dim. in mm

MR Series: • Highly waterproof, no loss of performance after immersion in 15m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • Wire leads attached

Fig. 1

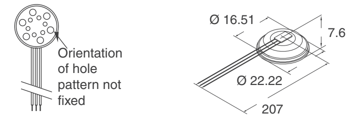

Fig. 2

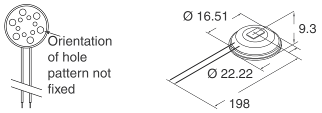

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	Sensitivity @ 1kHz (dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	DCR @ 20 dC ±10% (Ω)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Load Condition (Ω)	Output Imp. @ 1kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Electret Microphone													
1	-41 ±4	-61 ±4	1.0 ~ 20	50	—	30	10K	3.5K	423-1016-ND	53.20	45.78	39.59	MR-28406-000
Magnetic Microphone													
2	-67.5 ±3	-87.5 ±3	—	—	75.5	—	300	300	423-1015-ND	38.61	33.23	28.74	MR-23151-000

(Continued)

Specialty Speakers

Dim. in mm

CB Series: • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • Excellent sound quality • High speech intelligibility • Suitable for PCB mounting • Can function as a microphone or beeper • Stainless steel enclosure • 3 Position male header attached **CM Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High acoustic efficiency enables sufficient sound output even when limited power is available • In-built static protection • Lightweight, matte-black, plastic housing • Ergonomically designed with rounded edge to fit the concha • High-quality sound output • Tailored bandwidth for superb speech intelligibility • Rugged construction • 2 Position flexi-circuit attached **MR Series:** • Highly waterproof no loss of performance after immersion in 15m of water **BK Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation **ED Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation **EP Series:** • ED micro speaker, but with internal, highly-efficient, class D amplifier • Lower current drain prolongs battery life • Lower distortion **CI Series:** • High sensitivity, wide bandwidth response • Low distortion • Self shielded for low magnetic radiation **EC Series:** • Similar SPL output to the BK Series • Rounded corners on the face opposite the terminal pad • 34% smaller volume than the BK Series **EH Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self-shielded for low magnetic radiation **ES Series:** • EH micro speaker, but with internal, highly-efficient, class D amplifier • Lower current drain prolongs battery life • Lower distortion **FK Series:** • World's smallest balanced-armature magnetic receiver for hearing aid applications • Ideal for CIC instruments

Fig.	Nominal DC Resistance (Ω)	Impedance @ Frequency	Sound Port Location	Distortion Max % @ Hz		Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Handset Transceiver										
1	4.2	12@1kHz	Top Edge	15	500	423-1030-ND	21.50	18.50	16.00	CB-22844
	4.2	12@1kHz	Face	15	500	423-1033-ND	21.50	18.50	16.00	CB-22846
	11.5	24@1kHz	Face	15	500	423-1034-ND	30.23	26.02	22.50	CB-22847
	21.5	48@1kHz	Face	15	500	423-1035-ND◆	23.22	19.98	17.28	CB-22848
	11.5	24@1kHz	Top Edge	15	500	423-1031-ND	32.32	27.82	24.06	CB-22849-000
	21.5	48@1kHz	Top Edge	15	500	423-1032-ND	32.32	27.82	24.06	CB-22850-000
Headset Speaker — Flexi-Circuit										
2	65	150@1kHz	—	2	300	423-1036-ND	18.11	15.59	13.48	CM-23152-000
	8.5	30@1kHz	—	2	300	423-1037-ND◆	20.53	17.67	15.28	CM-28431-000
Headset Speaker — Wire Lead Out — RoHS Compliant										
2	10	21@1kHz	—	5	300	423-1118-ND	58.49	50.33	43.53	MR-23333-000
	65	150@1kHz	—	2	300	423-1105-ND	18.11	15.59	13.48	CM-23299-000
Balanced Armature Speakers										
3	10.7	13.3@500Hz	—	10	500	423-1055-ND	20.02	17.23	14.90	BK-28507-000
	10.7	16@500Hz	End	10	500	423-1101-ND◆	19.44	16.73	14.47	BK-26824-000
	18.5	23@500Hz	End	10	500	423-1102-ND◆	20.02	17.23	14.90	BK-28562-000
4	3.32	10.2@500Hz	—	5	800	423-1059-ND	25.26	21.74	18.81	ED-23619-000
	3.32	10.2@500Hz	—	5	800	423-1060-ND•	30.31	27.31	21.53	ED-23619-P16
	1.45K	780@500Hz	End	5	800	423-1110-ND◆	25.26	21.74	18.81	ED-21913-000
	3.3	7.1@500Hz	End	10	500	423-1112-ND◆	25.26	21.74	18.81	ED-26821-000
	—	50@1kHz	End	5	800	423-1114-ND◆	37.76	32.49	28.10	EP-24075-000
5	100	400@500Hz	End	10	500	423-1104-ND◆	23.41	20.14	17.42	CI-22960-000
6	92	200@500Hz	End	10	800	423-1108-ND◆	24.29	20.90	18.08	EC-23097-000
7	1.055K	625@500Hz	End	10	800	423-1113-ND◆	35.62	30.65	26.51	EH-23030-000
8	—	50@1kHz	End	5	800	423-1115-ND◆	46.58	40.08	34.67	ES-23127-000
9	630	450@500Hz	End	5	800	423-1116-ND◆	41.47	35.69	30.87	FK-23451-000

◆ ***RoHS Compliant*** • Has 1 inch long leads

Fig. 1

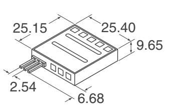

Fig. 2

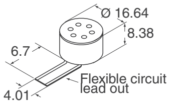

Fig. 3

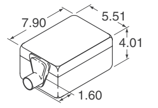

Fig. 4

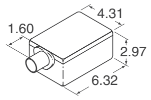

Fig. 5

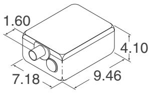

Fig. 6

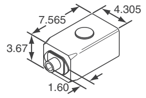

Fig. 7

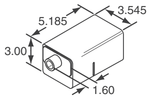

Fig. 8

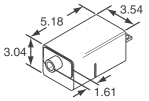

Fig. 9

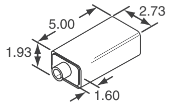

SiSonic™ Silicon Microphones

Dim. in mm

Features: • Surface mount microphone • Compatible with standard surface mount soldering process • Automated pick 'n' place using standard equipment • No off-line soldering or insertion • Highly shock resistant • Low vibration sensitivity • Operation at high and low temperature • Ability to integrate additional electronics into package • Omni-directional **Applications:** • Cellular phones • Corded and cordless telephones • PCs, PC tablets, labtops • PDAs, MP3 players • Automotive and automotive accessories • General electronics **SiSonic Zero-Height:** • SiSonic "Zero Height" shrinks product thickness by up to 30% • Minimizes distance between PCB and mobile device housing • Ideal for microphone placement on reverse side of PCB, while maintaining acoustic port on top side of mobile device, for clamshell phone designs • Enables the thinnest, highest density product designs • Integrated Amplified version increases output signal by up to 20dB **SiSonic Mini:** • Mini SiSonic with a footprint less than 18mm^2 reduces manufacturing costs and brings greater design flexibility • Rugged, solid state design process for stable acoustic performance under extreme conditions such as temperature, shock and vibration • Flexible package design allows for future product enhancements and integration of additional components • Integrated Amplified version increases output signal by up to 20dB

Fig. 1 — SiSonic Zero Height

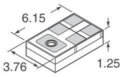

Fig. 2 — SiSonic Mini

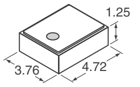

Fig. 3 — SiSonic Ultra-Mini Zero Height *NEW!*

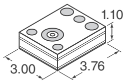

Fig. 4 — SiSonic Mini Zero Height *NEW!*

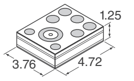

Fig. 5 — SiSonic Ultra-Mini *NEW!*

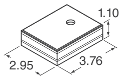

Fig.	Sensitivity @1kHz (dB re 1V/Pa)	Operating Voltage Range DC	Current Consumption	Nom S/N Ratio @ 1kHz	Operating Temperature (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,200	Knowles Acoustics Part No.
1	-42 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	59dB	-40 ~ 100	423-1080-1-ND	4.35	3.66	3.22	423-1080-2-ND	2260.45/M	SP0404LE5H-PB
	-22 ±3	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	59dB	-40 ~ 100	423-1081-1-ND	4.78	4.02	3.54	423-1081-2-ND	2485.09/M	SP0408LE5H-SB
2	-42 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	59dB	-40 ~ 100	423-1083-1-ND	3.89	3.27	2.88	423-1083-2-ND	2021.76/M	SPM0404HE5H-PB
	-42 ±3	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	59dB	-40 ~ 100	423-1131-1-ND ***NEW!***	3.70	3.11	2.74	423-1131-2-ND	1923.49/M	SPM0404HD5-PB
	-38 ±3	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	59dB	-40 ~ 100	423-1125-1-ND	4.21	3.54	3.12	423-1125-2-ND	2190.25/M	SPM0404LE5H-QB
	-22 ±3	1.5 ~ 5.5V	<0.500mA @ 5.5VDC	59dB	-40 ~ 100	423-1128-1-ND ***NEW!***	4.43	3.72	3.28	423-1128-2-ND	2302.56/M	SPM0406HE3H-SB
	-22 ±4	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	59dB	-40 ~ 100	423-1084-1-ND	4.08	3.43	3.02	423-1084-2-ND	2120.05/M	SPM0408HD5H-SB
	-22 ±4	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	59dB	-40 ~ 100	423-1085-1-ND	4.27	3.59	3.16	423-1085-2-ND	2218.32/M	SPM0408HE5H-SB
	-26 ±4	1.6 ~ 3.6V	<0.600mA @ 3.6VDC	56dB	-40 ~ 100	423-1126-1-ND	5.10	4.29	3.78	423-1126-2-ND	2653.56/M	SPM0423HD4H-WB
3	-38 ±3	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	62dB	-40 ~ 100	423-1127-1-ND ***NEW!***	4.29	3.61	3.18	423-1127-2-ND	2232.36/M	SPU0409LE5H-QB
4	-18 ±3	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	59dB	-40 ~ 100	423-1129-1-ND ***NEW!***	4.59	3.86	3.40	423-1129-2-ND	2386.80/M	SPM0408LE5H-TB
5	-42 ±3	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	59dB	-40 ~ 100	423-1130-1-ND ***NEW!***	3.97	3.34	2.94	423-1130-2-ND	2063.89/M	SPUL409HE5H-PB

Ultrasonic Acoustic Sensor

The Ultrasonic Acoustic Sensor utilizes the latest technology MEMS (Micro Electro Mechanical Systems) to provide a robust mechanical acoustic sensor which performs over a wide environmental range. Compared to conventional Ultrasonic Sensors that have a narrow frequency band of detection, the Knowles sensor is ideal for capturing a wide frequency range applicable to a variety of ultrasonic applications: Ultrasonic Range Detection, Condition Monitoring, Fault detection, Level Sensing and Position Sensing. The sensor can be utilized to monitor and detect frequencies from 10kHz ~ 65kHz with minimal attenuation across the frequency range.

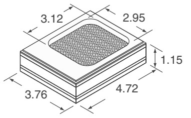

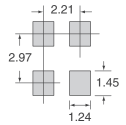

Sensitivity @1kHz (dB re 1V/Pa)	Operating Voltage Range DC	Max. Current Consumption	S/N Ratio @ 1kHz	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,200	Knowles Acoustics Part No.
-47 ±4	1.5V ~ 3.6V	<0.250mA @ 3.6VDC	>59dB	-40°C ~ 100°C	423-1086-1-ND	6.48	5.45	4.80	423-1086-2-ND	3369.60/M	SPM0405UD5

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LMB HEEGER

Aluminum Enclosures

Fig. 1

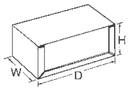

Aluminum Boxes:
• .040” (1.02mm) Plain aluminum • Screw fastening, punched and tapped

Fig. 2

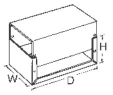

Snap Together Aluminum Boxes: • .040” (1.02mm) Plain aluminum • An ideal box for construction where screws cannot be used and where access to the box must be quick and often. The catches hold the box together tightly

Crown Royal Series Chassis: • Versatile and rugged construction • Constructed of .050” (1.27mm) aluminum, Type 3003-H14 • Plain aluminum • Screws included

Fig. 3

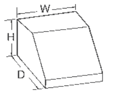

Fig. 4

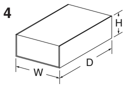

Fig. 3 - Aluminum Consoles: • Plain aluminum • The length of the Flat Top of the MDC Series is 1/2 the total depth

Figs. 3 and 4 - Uni-Cab Universal Cabinet System: • Bases are .090 (2.29mm) aluminum. Covers are .063” (1.60mm) aluminum, Type 3003-H14 metal • Pem nuts used throughout for longer life and ease of assembly and disassembly • All parts are primed to protect the metal against the elements and to serve as a paint base. Bases are finished in textured blue, covers are finished in semi-gloss white • The base is approximately 1/4” (6.35mm) larger than the cover dimensions

Fig. 5

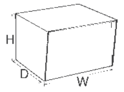

Small Cabinets:
• Finished in Grey • By removing four screws in bottom, cover slides off for easy access to interior of enclosure • A housing for small instruments, amplifiers, intercoms, public address systems, and for any small or medium sized item that is being prepared for the market and where price and appearance is a major factor

Fig. 6

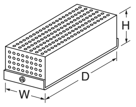

LMB Perforated Box Chassis:
• LMB perforated boxes are adaptable wherever heat dissipation is required, as well as utmost shielding • Plain aluminum

Fig. 7

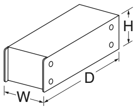

UNI-PAC Universal Packaging System:
A quality cabinet, engineered for versatility and value, at an affordable price. The Uni-Pac is constructed with .063” (1.60mm) aluminum, with .125” (3.18mm) aluminum sides and four adhesive rubber feet. The top, bottom, and sides are finished in textured blue, the front and rear panels are finished in semi-gloss white. • Interchangeable front, back, top and bottom panels

Fig. 8

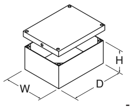

Cap Cover Chassis:
• Cap cover construction enables the builder to use either the top or the bottom of the chassis for construction • Chassis can also be mounted on its side and construction can be on both top and bottom at the same time • Built from Aircraft quality .040” (1.02mm) aluminum, Type 3003-H14 • Plain aluminum

Fig.9

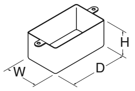

Drawn Miniature Box:
• Cold rolled steel, with mounting ears • Made of steel only • Covers are soldered-in when used in assembly • Not fabricated (holes punched in the box) • Plain steel

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Price Each 1	10	50
Fig. 1 - Aluminum Boxes				
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L100-ND◆	5.36	4.83	4.67
3.50 x 2.13 x 1.63 (88.90 x 53.98 x 41.28)	L101-ND◆	5.10	4.59	4.44
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L102-ND◆	6.46	5.82	5.63
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L103-ND◆	6.93	6.24	6.03
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L104-ND◆	9.68	8.72	8.43
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L105-ND	13.53	12.18	11.78
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L106-ND	13.70	12.33	11.92
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L107-ND◆	16.67	15.01	14.51
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L108-ND◆	19.71	17.74	17.15
12.00 x 7.00 x 4.00 (304.80 x 177.80 x 101.60)	L109-ND◆	27.38	24.65	23.83
17.00 x 5.00 x 4.00 (431.80 x 127.00 x 101.60)	L110-ND◆	30.07	27.07	26.17
Fig. 2 - Aluminum Boxes (Snap-Together)				
2.75 x 2.13 x 1.63 (69.85 x 53.98 x 41.28)	L111-ND◆	4.75	4.28	4.14
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L112-ND	5.36	4.83	4.67
3.25 x 2.13 x 1.13 (82.55 x 53.98 x 28.58)	L113-ND◆	4.75	4.28	4.14
4.00 x 2.13 x 1.63 (101.60 x 53.98 x 41.28)	L114-ND◆	5.36	4.83	4.67
4.00 x 2.00 x 2.75 (101.60 x 50.80 x 69.85)	L115-ND◆	6.48	5.84	5.64
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L116-ND◆	6.93	6.24	6.03
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L117-ND◆	9.68	8.72	8.43
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L118-ND◆	13.53	12.18	11.78
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L119-ND◆	13.70	12.33	11.92
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L120-ND	16.67	15.01	14.51
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L121-ND	19.71	17.74	17.15
Fig. 2 - Crown Royal Series Aluminum Boxes				
2.25 x 1.50 x 1.38 (57.15 x 38.10 x 35.05)	L198-ND◆	5.68	5.12	4.95
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L200-ND◆	10.69	9.63	9.31
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L201-ND	11.20	10.08	9.75
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L202-ND	14.08	12.68	12.25
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L204-ND	28.66	25.80	24.94
Fig. 3 - Aluminum Consoles				
4.00 x 3.00 x 2.00 (101.60 x 76.20 x 50.80)	L122-ND◆	8.81	7.93	7.67
5.00 x 3.00 x 2.00 (127.00 x 76.20 x 50.80)	L123-ND◆	10.15	9.14	8.84
6.00 x 4.00 x 2.25 (152.40 x 101.60 x 57.15)	L124-ND◆	12.13	10.92	10.56
7.00 x 5.00 x 2.50 (177.80 x 127.00 x 63.50)	L125-ND	13.99	12.60	12.18
8.00 x 6.00 x 2.75 (203.20 x 152.40 x 69.85)	L126-ND◆	18.38	16.55	16.00
9.00 x 7.00 x 3.00 (228.60 x 177.80 x 76.20)	L127-ND◆	20.23	18.21	17.60
11.00 x 8.00 x 3.50 (279.40 x 203.20 x 88.90)	L129-ND◆	30.26	27.24	26.33
13.00 x 10.00 x 4.00 (330.20 x 254.00 x 101.60)	L130-ND	41.09	36.99	35.75
15.00 x 15.00 x 4.50 (381.00 x 381.00 x 114.30)	L131-ND◆	66.99	60.30	58.29
Fig. 3 - Uni-Cab Universal Cabinet System				
5.00 x 5.00 x 1.75 (127.00 x 127.00 x 44.45)	L155-ND◆	30.15	27.14	26.24
6.00 x 6.00 x 2.75 (152.40 x 152.40 x 69.85)	L156-ND◆	35.05	31.55	30.50
7.00 x 6.00 x 3.50 (177.80 x 152.40 x 88.90)	L157-ND	37.36	33.63	32.51
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L158-ND	34.64	31.18	30.14
6.00 x 6.00 x 5.00 (152.40 x 152.40 x 127.00)	L159-ND◆	40.10	36.09	34.89
10.00 x 10.00 x 3.00 (254.00 x 254.00 x 76.20)	L161-ND◆	55.31	49.78	48.12
10.00 x 12.00 x 4.00 (254.00 x 304.80 x 101.60)	L162-ND◆	68.53	61.68	59.63

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Price Each 1	10	50
Fig. 4 - Uni-Cab Universal Cabinet System				
6.00 x 4.00 x 2.00 (152.40 x 101.60 x 50.80)	L154-ND	31.32	28.20	27.26
10.00 x 6.00 x 4.00 (254.00 x 152.40 x 101.60)	L160-ND◆	44.26	39.84	38.51
Fig. 5 - Small Cabinets — RoHS Compliant				
5.00 x 6.00 x 4.00 (127.00 x 152.40 x 101.60)	L147-ND	27.50	24.75	23.93
6.00 x 8.00 x 5.00 (152.40 x 203.20 x 127.00)	L148-ND	40.37	36.34	35.13
Fig. 6 - LMB Perforated Box Chassis — RoHS Compliant				
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L164-ND	7.95	7.16	6.92
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L167-ND	9.66	8.70	8.41
3.75 x 3.00 x 2.13 (95.25 x 76.20 x 53.98)	L169-ND	11.02	9.92	9.59
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L170-ND	12.49	11.25	10.87
8.00 x 3.00 x 2.75 (203.20 x 76.20 x 69.85)	L171-ND	18.28	16.46	15.91
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L172-ND	15.74	14.17	13.70
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L175-ND	18.77	16.90	16.33
6.00 x 4.00 x 5.00 (152.40 x 101.60 x 127.00)	L176-ND	22.81	20.53	19.85
10.00 x 4.00 x 2.50 (254.00 x 101.60 x 63.50)	L178-ND	23.64	21.28	20.57
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L179-ND	23.45	21.11	20.41
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L180-ND	32.88	29.60	28.61
Fig. 7 - UNI-PAC Universal Packaging System				
7.00 x 12.00 x 1.75 (177.80 x 304.80 x 44.45)	L181-ND◆	74.60	67.14	64.91
9.00 x 12.00 x 3.50 (228.60 x 304.80 x 88.90)	L182-ND◆	91.55	82.40	79.65
9.00 x 17.00 x 3.50 (228.60 x 431.80 x 88.90)	L183-ND◆	106.74	96.07	92.87
12.00 x 17.00 x 3.50 (304.80 x 431.80 x 88.90)	L184-ND	124.74	112.27	108.53
7.00 x 14.00 x 5.25 (177.80 x 355.60 x 133.35)	L185-ND◆	98.32	88.49	85.54
9.00 x 17.00 x 5.25 (228.60 x 431.80 x 133.35)	L186-ND◆	118.82	106.94	103.38
12.00 x 17.00 x 5.25 (304.80 x 431.80 x 133.35)	L187-ND◆	140.09	126.09	121.88
14.00 x 17.00 x 7.00 (355.60 x 431.80 x 177.80)	L189-ND◆	171.11	154.00	148.87
Fig. 8 - Cap Cover Chassis — RoHS Compliant				
5.00 x 7.00 x 2.00 (127.00 x 177.80 x 50.80)	L190-ND	20.00	18.00	17.40
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L191-ND	21.54	19.39	18.74
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L192-ND	19.27	17.35	16.77
7.00 x 10.00 x 3.00 (177.80 x 254.00 x 76.20)	L193-ND	30.80	27.72	26.80
8.00 x 10.00 x 2.00 (203.20 x 254.00 x 50.80)	L194-ND	28.07	25.27	24.43
8.00 x 10.00 x 3.00 (203.20 x 254.00 x 76.20)	L195-ND	32.15	28.94	27.98
8.00 x 10.00 x 4.00 (203.20 x 254.00 x 101.60)	L196-ND	34.72	31.25	30.21
8.00 x 12.00 x 3.00 (203.20 x 304.80 x 76.20)	L197-ND	35.66	32.10	31.03
Fig. 9 - Drawn Miniature Box with Ears (Lids Sold Separately)				
1.75 x 1.25 x .88 (44.45 x 31.75 x 22.23)	L206-ND◆	1.78	1.61	1.55
2.00 x 1.75 x .75 (50.80 x 44.45 x 19.05)	L208-ND◆	1.78	1.61	1.55
Optional Lids for Drawn Miniature Boxes				
Lid for L206-ND Box	L205-ND◆	1.22	1.10	1.07
Lid for L208-ND Box	L207-ND	1.22	1.10	1.07
Lid for L210-ND Box	L209-ND	1.22	1.10	1.07
Lid for L212-ND Box	L211-ND◆	1.22	1.10	1.07

◆ ***RoHS Compliant***

RoHS COMPLIANT ~ ISO 9001 CERTIFIED
KEYSTONE
ELECTRONICS CORP

Instrument Boxes

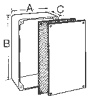

• **Panels:** Mount flush inside of case, holes drilled in panel positioned for the inserts • **Phenolic Panel:** .062” thick glossy black MIL-P-3115C • **Aluminum Panel:** .062” thick, #5052-H34 per QQ 318 C • **Boxes:** Precision molded with rounded outside corners, and ≤ 3/16” x 3/16” (4.76mm x 4.76mm) deep threaded brass inserts in base.
Note 1: 703 and 704 have 4-40 tapped hole in each corner - no inserts
Note 2: 705 mounting holes untapped - Use #4 self tapping screw.

Dimensions Inches (mm)			Case Only		Black Phenolic Panel Only		Aluminum Panel Only	
A	B	C	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	703K-ND◆	4.41	2042K-ND◆	1.65	2044K-ND◆	2.37
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	705K-ND	3.99	2042K-ND◆	1.65	2044K-ND◆	2.37
3.13 (79.50)	5.88 (149.35)	2.25 (57.15)	704K-ND◆	12.69	2043K-ND◆	2.47	2045K-ND◆	3.87
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	700K-ND◆	10.01	2037K-ND◆*	3.71	2046K-ND◆	3.54
5.25 (133.35)	6.81 (172.97)	2.31 (58.67)	701K-ND◆	18.38	2038K-ND◆*	5.59	2047K-ND◆	5.23
7.38 (187.45)	8.38 (212.85)	3.00 (76.20)	702K-ND◆	31.96	2039K-ND◆*	12.19	2048K-ND◆	11.77

◆ ***RoHS Compliant*** * .093” Thick

Instrument Boxes

RoHS COMPLIANT

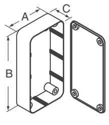

Economical cases molded of high impact material. Mating cover has interlocking flange on lid, countersunk holes for flush mounting. Internal grooved guides to hold PC boards and circuit cards from .062 to .093 thick. Ideal for prototype or production usage. • Low cost • Sturdy construction

Cases supplied with cover and mounting screws

Dimensions Inches (mm)			Color/ Material	Digi-Key Part No.	Price Each		
A	B	C			1	10	100
2.50 (63.50)	4.75 (120.65)	1.40 (35.56)	Blue Styrene	762K-ND	5.56	5.13	4.66
2.88 (73.03)	4.00 (101.60)	1.56 (39.67)	Black ABS	706K-ND	9.24	8.58	7.92
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	Black ABS	707K-ND	14.60	13.56	12.49

GC™ ELECTRONICS

Nibbler Tool

For Panels, Boxes

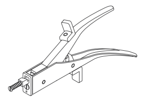

Spring loaded nibbling tool for cutting plastic and metal. Cut from the side or from a single .375” (9.52mm) hole. Will cut up to 18 AWG steel or .062” (1.57mm) copper, brass, aluminum or plastics.
GC395-ND Nibbler Tool ... **$12.55**

SERPAC *Electronic Enclosures*

Plastic Electronic Enclosures

Models (excluding CA Series) are available with or without 9-volt battery compartments, come with vertical card guides and are bossed for mounting horizontal circuit boards. Made from ABS UL Rated 94 HB plastic.

CA Series Only: Features: 0 to 6 button configurations • Designed to hold 20mm coin cell batteries • Assembles with two or three screws

Fig. 1 — A Series

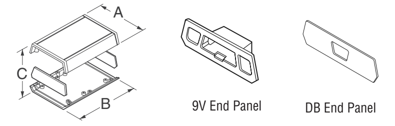

Fig. 2 — Standard/ Standard with Insert

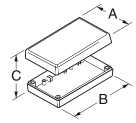

Fig. 3 — Standard Enclosure Copper Clad Board

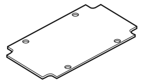

Fig. 4 — Gasket

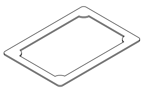

Fig. 5 — 9V Standard/ 9V Standard with Insert

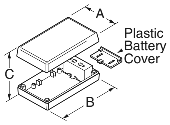

Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
H-65 Series Optional End Panel, Clear	SRH65-FPC-ND◆	2.17	1.73	1.49	2105CL
H-65 Series Optional End Panel, Infrared	SRH65-FPI-ND◆	2.74	2.18	1.88	2105IR
Rubber Feet 1xx, 2xx	SR50-ND◆	.38	.30	.26	SR50
Non-Skid Feet Blk	SR51-ND◆	.47	.38	.33	51
Rubber Feet For A Series	SR52-ND◆	.47	.38	.33	52
100 pc. Standoff Screws, Adhesive	SR60KIT-ND	46.00	34.50	32.20	60 KIT
Standoff with Hole	SR60-ND◆	.44	.35	.31	60
Standoff with Post	SR61-ND◆	.41	.33	.28	61
Glue for SR60 and SR61	SR65-ND◆	13.48	10.70	9.21	65
Battery Clip; dbl. contact for M-6, M-8, H65-9V, H65-AA H67-9V, and H67-AA	SR71-ND	.68	.54	.47	71
Battery Clip; single contact for M-6, M-8, H65-9V, H65-AA, H67-9V, and H67-AA boxes	SR72-ND◆	.68	.54	.47	72
Battery Clip; battery contacts for M-4 boxes	SR75-ND	.68	.54	.47	75
Screw #0 x 9/16 Flat; fits M-4	SR6001-ND	.22	.18	.16	6001
Screw #2 x 1/2 Flat; fits M-6, M-8, C-4, CH-4 and H Series	SR6003-ND	.22	.18	.16	6003
Screw #4 x 1/4 H/L Pan; fits 110-I, 05-S, 9V, 15-S, 9V Standoff Holes and All Bosses	SR6004-ND◆	.22	.18	.16	6004
Screw #4 x 3/8 H/L Pan; fits All S and SL Series	SR6005-ND◆	.22	.18	.16	6005
Screw #4 x 1/2 Flat; fits A Series and Wall-Mount Plates	SR6006-ND◆	.22	.18	.16	6006
Screw #2 x 3/4 Flat; fits M-6, IND M-8, IND C-8, CH-8	SR6007-ND◆	.22	.18	.16	6007
Screw #2 x 5/8 Flat; fits C-6 and CH-6	SR6008-ND	.22	.18	.16	6008

Dimensions — Inch				Digi-Key Part No.	Price Each		Serpac Series No.
A	B	C	D		1	25	
Fig. 1 — A Series							
2.60 (66.04)	4.25 (107.95)	.88 (22.35)	—	SRA20□-ND	4.25	3.38	A-20
2.60 (66.04)	4.25 (107.95)	1.12 (28.45)	—	SRA21□-ND◆	4.41	3.50	A-21
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27□-ND	7.21	5.73	A-27
5.10 (129.54)	5.30 (134.62)	1.71 (43.43)	—	SRA31□-ND◆	9.54	7.58	A-31
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41□-ND◆	11.18	8.88	A-41
5.00 (127.00)	7.10 (180.34)	1.62 (41.15)	—	SRA42□-ND	11.72	9.30	A-42
Fig. 1 — A Series - 9-Volt							
2.60 (66.04)	4.30 (109.22)	1.10 (27.94)	—	SRA21-9V□-ND◆	5.92	4.70	A-219V
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27-9V□-ND	8.44	6.70	A-279V
5.10 (129.54)	5.30 (134.62)	1.80 (45.72)	—	SRA31-9V□-ND	10.65	8.45	A-319V
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41-9V□-ND	12.25	9.73	A-419V
5.00 (127.00)	7.10 (180.34)	1.60 (40.64)	—	SRA42-9V□-ND◆	12.82	10.18	A-429V
Fig. 2 — Standard							
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111□-ND	4.10	3.25	111
2.25 (57.15)	3.60 (91.44)	2.00 (50.80)	—	SR112□-ND	4.35	3.45	112
2.25 (57.15)	3.60 (91.44)	2.50 (63.50)	—	SR113□-ND	4.57	3.63	113
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021□-ND◆	4.19	3.33	021
2.60 (66.04)	4.10 (104.14)	1.40 (35.56)	—	SR022□-ND◆	4.47	3.55	022
2.60 (66.04)	4.10 (104.14)	1.90 (48.26)	—	SR023□-ND◆	4.66	3.70	023
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR121□-ND◆	4.69	3.73	121
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR122□-ND◆	5.04	4.00	122
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR123□-ND◆	5.10	4.05	123
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR222□-ND◆	5.36	4.25	222
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR223□-ND◆	5.70	4.53	223
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031□-ND	4.79	3.80	031
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131□-ND◆	5.20	4.13	131
3.25 (82.55)	4.38 (111.25)	1.40 (35.56)	—	SR032□-ND	5.23	4.15	032
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132□-ND	5.58	4.43	132
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033□-ND	5.58	4.43	033
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133□-ND◆	5.83	4.63	133
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151□-ND◆	5.99	4.75	151
3.25 (82.55)	5.62 (142.75)	1.40 (35.56)	—	SR052□-ND◆	5.92	4.70	052
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152□-ND	6.33	5.03	152
3.25 (82.55)	5.62 (142.75)	1.90 (48.26)	—	SR053□-ND	6.39	5.08	053
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153□-ND	6.87	5.45	153
3.25 (82.55)	5.62 (142.75)	0.90 (22.86)	—	SR051□-ND◆	5.54	4.40	051
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071□-ND	7.94	6.30	071
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171□-ND◆	8.63	6.85	171
4.88 (123.95)	6.88 (174.75)	1.40 (35.56)	—	SR072□-ND◆	8.91	7.08	072
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172□-ND	9.70	7.70	172
4.88 (123.95)	6.88 (174.75)	1.90 (48.26)	—	SR073□-ND	9.14	7.25	073
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173□-ND◆	10.21	8.10	173
4.88 (123.95)	14.21 (360.93)	2.00 (50.80)	—	SR182□-ND	14.43	11.45	182
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191□-ND◆	12.92	10.25	191
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193□-ND◆	13.58	10.78	193
6.34 (161.04)	9.50 (241.30)	3.00 (76.20)	—	SR194□-ND◆✔	13.99	11.10	194
6.34 (161.04)	9.50 (241.30)	0.90 (22.86)	—	SR091□-ND◆	12.03	9.55	091
6.34 (161.04)	9.50 (241.30)	1.90 (48.26)	—	SR093□-ND◆	12.82	10.18	093
6.34 (161.04)	9.50 (241.30)	2.40 (60.96)	—	SR094□-ND◆✔	13.20	10.48	094
Fig. 2 — Standard with Insert (Non-Textured Top)							
2.25 (57.15)	3.60 (91.44)	1.00 (25.40)	—	SR110-I□-ND	3.56	2.83	110-I
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-I□-ND	4.10	3.25	111-I
2.25 (57.15)	3.60 (91.44)	2.00 (50.80)	—	SR112-I□-ND◆	4.35	3.45	112-I
2.25 (57.15)	3.60 (91.44)	2.50 (63.50)	—	SR113-I□-ND◆	4.57	3.63	113-I
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021-I□-ND	4.19	3.33	021-I
2.60 (66.04)	4.10 (104.14)	1.40 (35.56)	—	SR022-I□-ND◆	4.47	3.55	022-I
2.60 (66.04)	4.10 (104.14)	1.90 (48.26)	—	SR023-I□-ND◆	4.66	3.70	023-I
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR121-I□-ND◆	4.69	3.73	121-I
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR122-I□-ND◆	5.04	4.00	122-I
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR123-I□-ND◆	5.10	4.05	123-I
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR222-I□-ND◆	5.36	4.25	222-I
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR223-I□-ND◆	5.70	4.53	223-I
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132-I□-ND◆	5.58	4.43	132-I
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-I□-ND◆	6.43	5.10	232-I
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252-I□-ND◆	7.43	5.90	252-I
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-I□-ND	4.79	3.80	031-I
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-I□-ND	5.20	4.13	131-I
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033-I□-ND	5.58	4.43	033-I
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-I□-ND◆	5.83	4.63	133-I
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151-I□-ND◆	5.99	4.75	151-I
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-I□-ND◆	6.33	5.03	152-I
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153-I□-ND	6.87	5.45	153-I
3.25 (82.55)	5.62 (142.75)	0.90 (22.86)	—	SR051-I□-ND	5.54	4.40	051-I
3.25 (82.55)	5.62 (142.75)	1.90 (48.26)	—	SR053-I□-ND	6.39	5.08	053-I
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071-I□-ND	7.94	6.30	071-I
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171I□-ND	8.63	6.85	171-I
4.88 (123.95)	6.88 (174.75)	1.40 (35.56)	—	SR072-I□-ND	8.91	7.08	072-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-I□-ND	9.70	7.70	172-I
4.88 (123.95)	6.88 (174.75)	1.90 (48.26)	—	SR073-I□-ND	9.14	7.25	073-I
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-I□-ND◆	10.21	8.10	173-I
4.88 (123.95)	14.21 (360.93)	2.00 (50.80)	—	SR182I□-ND	14.43	11.45	182-I
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191I□-ND◆	12.92	10.25	191-I
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193I□-ND	13.58	10.78	193-I
6.34 (161.04)	9.50 (241.30)	3.00 (76.20)	—	SR194-I□-ND◆✔	13.99	11.10	194-I
6.34 (161.04)	9.50 (241.30)	0.90 (22.86)	—	SR091-I□-ND	12.03	9.55	091-I
6.34 (161.04)	9.50 (241.30)	1.90 (48.26)	—	SR093I□-ND	12.82	10.18	093-I
6.34 (161.04)	9.50 (241.30)	2.40 (60.96)	—	SR094-I□-ND◆✔	13.20	10.48	094-I
Fig. 2 — Standard Wall Mount							
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-W□-ND	5.92	4.70	031-W
3.25 (82.55)	4.38 (111.25)	1.40 (35.56)	—	SR032-W□-ND	6.36	5.05	032-W
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033-W□-ND	6.68	5.30	033-W
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151-W□-ND	8.10	6.43	151-W
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-W□-ND	8.73	6.93	152-W
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153-W□-ND	9.14	7.25	153-W
3.25 (82.55)	5.62 (142.75)	0.90 (22.86)	—	SR051-W□-ND	8.10	6.43	051-W
3.25 (82.55)	5.62 (142.75)	1.40 (35.56)	—	SR052-W□-ND	8.73	6.93	052-W
3.25 (82.55)	5.62 (142.75)	1.90 (48.26)	—	SR053-W□-ND	8.95	7.10	053-W
Fig. 2 — Standard Wall Mount with Insert							
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-WI□-ND	5.92	4.70	031-WI
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033-WI□-ND	6.68	5.30	033-WI
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151-WI□-ND	8.10	6.43	151-WI
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153-WI□-ND	9.14	7.25	153-WI
3.25 (82.55)	5.62 (142.75)	0.90 (22.86)	—	SR051-WI□-ND	8.10	6.43	051-WI
3.25 (82.55)	5.62 (142.75)	1.90 (48.26)	—	SR053-WI□-ND	8.95	7.10	053-WI
Fig. 2 — Standard with Front Access — RoHS Compliant							
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-R□-ND	5.51	4.38	111-R
2.25 (57.15)	3.60 (91.44)	2.00 (50.80)	—	SR112-R□-ND	5.76	4.58	112-R
2.27 (57.15)	3.60 (91.44)	2.50 (63.50)	—	SR113-R□-ND	5.95	4.73	113-R
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR121-R□-ND	5.39	4.28	121-R
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR122-R□-ND	5.73	4.55	122-R
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR123-R□-ND	5.80	4.60	123-R
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-R□-ND	6.58	5.23	131-R
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132-R□-ND	6.96	5.53	132-R
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-R□-ND	7.25	5.75	133-R
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151-R□-ND	7.37	5.85	151-R
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-R□-ND	7.72	6.13	152-R
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153-R□-ND	8.25	6.55	153-R
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171-R□-ND	10.71	8.50	171-R
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-R□-ND	11.81	9.38	172-R
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-R□-ND	12.29	9.75	173-R
4.88 (123.95)	14.21 (360.93)	2.00 (50.80)	—	SR182-R□-ND	17.89	14.20	182-R
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191-R□-ND	14.99	11.90	191-R
6.34 (161.04)	9.50 (241.30)	2.00 (50.80)	—	SR192-R□-ND	15.34	12.18	192-R
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193-R□-ND	15.69	12.45	193-R
6.34 (161.04)	9.50 (241.30)	3.00 (76.20)	—	SR194-R□-ND✔	18.11	14.38	194-R
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-R□-ND	5.67	4.50	221-R
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR222-R□-ND	6.58	5.23	222-R
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR223-R□-ND	6.39	5.08	223-R
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231-R□-ND	7.47	5.93	231-R
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-R□-ND	7.84	6.23	232-R
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR233-R□-ND	8.13	6.45	233-R
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR251-R□-ND	8.82	7.00	251-R
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252-R□-ND	9.29	7.38	252-R
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253-R□-ND	9.67	7.38	253-R
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR271-R□-ND	11.97	9.50	271-R
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-R□-ND	12.66	10.05	272-R
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR273-R□-ND	12.85	10.20	273-R
Fig. 2 — Standard with Front Access and Insert — RoHS Compliant							
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-RI□-ND	5.51	4.38	111-RI
2.25 (57.15)	3.60 (91.44)	2.00 (50.80)	—	SR112-RI□-ND	5.76	4.58	112-RI
2.25 (57.15)	3.60 (91.44)	2.50 (63.50)	—	SR113-RI□-ND	5.95	4.73	113-RI
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR121-RI□-ND	5.39	4.28	121-RI
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR122-RI□-ND	5.73	4.55	122-RI
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR123-RI□-ND	5.80	4.60	123-RI
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-RI□-ND	6.58	5.23	131-RI

Box color □: **B** = Black, **G** = Gray, **A** = Almond ◆ ***RoHS Compliant*** ✔ ***NEW!***

(Continued)

Fig. 6 — Slanted

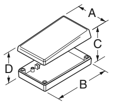

Fig. 7 — 9V Slanted

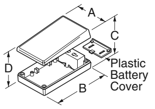

Fig. 8 — C, CH, C2 and C9 Series

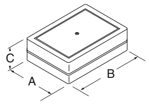

Fig. 9 — M4, M6, M8 Series

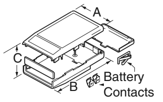

Fig. 10 — H Series

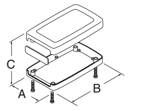

9V H Series

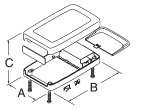

Dimensions — Inch				Digi-Key Part No.	Price Each		Serpac Series No.
A	B	C	D		1	25	
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132-RI☐-ND	6.96	5.53	132-RI
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-RI☐-ND	7.25	5.75	133-RI
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151-RI☐-ND	7.37	5.85	151-RI
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-RI☐-ND	7.72	6.13	152-RI
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR153-RI☐-ND	8.25	6.55	153-RI
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171-RI☐-ND	10.71	8.50	171-RI
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-RI☐-ND	11.81	9.38	172-RI
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-RI☐-ND	12.29	9.75	173-RI
4.88 (123.95)	14.21 (360.93)	2.00 (50.80)	—	SR182-RI☐-ND	17.89	14.20	182-RI
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191-RI☐-ND	14.99	11.90	191-RI
6.34 (161.04)	9.50 (241.30)	2.00 (50.80)	—	SR192-RI☐-ND	15.34	12.18	192-RI
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193-RI☐-ND	15.69	12.45	193-RI
6.34 (161.04)	9.50 (241.30)	3.00 (76.20)	—	SR194-RI☐-ND✔	18.11	14.38	194-RI
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-RI☐-ND	5.67	4.50	221-RI
2.60 (66.04)	4.10 (104.14)	2.00 (50.80)	—	SR222-RI☐-ND	6.58	5.23	222-RI
2.60 (66.04)	4.10 (104.14)	2.50 (63.50)	—	SR223-RI☐-ND	6.39	5.08	223-RI
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231-RI☐-ND	7.47	5.93	231-RI
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-RI☐-ND	7.84	6.23	232-RI
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR233-RI☐-ND	8.13	6.45	233-RI
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR251-RI☐-ND	8.82	7.00	251-RI
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252-RI☐-ND	9.29	7.38	252-RI
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253-RI☐-ND	9.67	7.68	253-RI
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR271-RI☐-ND	11.97	9.50	271-RI
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-RI☐-ND	12.66	10.05	272-RI
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR273-RI☐-ND	12.85	10.20	273-RI
NEW! Fig. 2 — Standard with Clear Cover — RoHS Compliant NEW!							
3.25 (82.55)	4.38 (111.25)	1.40 (35.56)	—	SR032-C☐-ND	5.67	4.50	032C
3.25 (82.55)	5.62 (142.75)	1.40 (35.56)	—	SR052-C☐-ND	6.43	5.10	052C
4.88 (123.95)	6.88 (174.75)	1.40 (35.56)	—	SR072-C☐-ND	9.73	7.73	072C
6.34 (161.04)	9.50 (241.30)	1.90 (48.26)	—	SR093-C☐-ND	14.05	11.15	093C
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132-C☐-ND	6.08	4.83	132C
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR132-RC☐-ND	7.37	5.85	132RC
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-C☐-ND	6.90	5.48	152C
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR152-RC☐-ND	8.41	6.68	152RC
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-C☐-ND	10.65	8.45	172C
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-RC☐-ND	13.04	10.35	172RC
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193-C☐-ND	17.17	13.63	193C
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193-RC☐-ND	21.67	17.20	193RC
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-C☐-ND	7.02	5.58	232C
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-RC☐-ND	8.57	6.80	232RC
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252-C☐-ND	8.66	6.88	252C
3.25 (82.55)	5.60 (142.75)	2.00 (50.80)	—	SR252-RC☐-ND	10.21	8.10	252RC
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-C☐-ND	13.86	11.00	272C
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-RC☐-ND	17.48	13.88	272RC
NEW! Fig. 2 — Standard Wall Mount with Clear Cover — RoHS Compliant NEW!							
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-C☐-ND	6.08	4.83	WM032C
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-RC☐-ND	7.40	5.88	WM032RC
3.25 (82.55)	5.62 (142.75)	1.60 (40.64)	—	SRW052-C☐-ND	6.90	5.48	WM052C
3.25 (82.55)	5.63 (143.00)	1.60 (40.64)	—	SRW052-RC☐-ND	8.41	6.68	WM052RC
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-C☐-ND	10.65	8.45	WM072C
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-RC☐-ND	13.04	10.35	WM072RC
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-C☐-ND	17.17	13.63	WM093C
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-RC☐-ND	21.67	17.20	WM093RC
Fig. 3 — Standard Enclosure Prototyping Boards — .1" (2.54mm) Grid Perfboard — RoHS Compliant							
For Box #'s "SRx1x"				SR310-ND	10.17	8.08	310SR
For Box #'s "SRx3x"				SR330-ND	20.38	16.18	330SR
For Box #'s "SRx5x"				SR350-ND	15.12	11.34	350SR
For Box #'s "SRx7x"				SR370-ND	19.42	14.57	370SR
Fig. 3 — Standard Enclosure Prototyping Boards — Copper Clad Board (1 Side)							
For Box #'s "SRx1x"				SR410-ND◆	10.17	8.08	410SR
For Box #'s "SRx3x"				SR430-ND◆	11.18	8.88	430SR
For Box #'s "SRx7x"				SR470-ND	15.59	12.38	470SR
Fig. 4 — Gaskets — RoHS Compliant							
Gasket, 3.63" x 2.27" (92.20mm x 57.66mm); fits 111, 111-1, 112, and 113				SRPS-11-ND	3.50	2.78	PS-11
Gasket, 4.38" x 3.25" (111.25mm x 82.55mm); fits 131, 131-1, 132, 132-1, 133, and 133-1				SRPS-13-ND	3.94	3.13	PS-13
Gasket, 5.63" x 3.25" (143.00mm x 82.55mm); fits 151, 151-1, 152, 153, and 153-1				SRPS-15-ND	4.76	3.78	PS-15
Gasket, 6.88" x 4.88" (174.75mm x 123.95mm); fits 171, 172, 173, and 17-S				SRPS-17-ND	5.23	4.15	PS-17
Gasket, 6.34" x 9.50" (161.04mm x 241.30mm); fits 091, 092, 093, 191, 192, and 193				SRPS-19-ND	5.45	4.33	PS-19
Fig. 5 — 9-Volt Standard							
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR211☐-ND◆	4.98	3.95	221
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231☐-ND◆	6.08	4.83	231
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232☐-ND	6.43	5.10	232
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR233☐-ND	6.74	5.35	233
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR251☐-ND◆	7.43	5.90	251
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252☐-ND	7.94	6.30	252
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253☐-ND	8.28	6.58	253
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR271☐-ND	9.86	7.83	271
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272☐-ND	10.58	8.40	272
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR273☐-ND	10.74	8.53	273
Fig. 5 — 9-Volt Standard with Insert (Non-Textured Top)							
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-I☐-ND	4.98	3.95	221-I
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231-I☐-ND	6.08	4.83	231-I
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR233-I☐-ND	6.74	5.35	233-I
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	—	SR251-I☐-ND	7.43	5.90	251-I
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253-I☐-ND	8.28	6.58	253-I
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR271-I☐-ND	9.86	7.83	271-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-I☐-ND	10.58	8.40	272-I

Dimensions — Inch				Digi-Key Part No.	Price Each		Serpac Series No.
A	B	C	D		1	25	
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR273-I☐-ND	10.74	8.53	273-I
Fig. 5 — 9-Volt Standard Wall Mount							
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231-W☐-ND	6.71	5.33	231-W
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232-W☐-ND	7.12	5.65	232-W
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR233-W☐-ND	7.43	5.90	233-W
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR251-W☐-ND	8.88	7.05	251-W
3.25 (82.55)	5.62 (142.75)	2.00 (50.80)	—	SR252-W☐-ND	9.51	7.55	252-W
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253-W☐-ND	9.67	7.68	253-W
Fig. 5 — 9-Volt Standard Wall Mount with Insert (Non-Textured Top)							
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231-WI☐-ND	6.71	5.33	231-WI
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR251-WI☐-ND	8.88	7.05	251-WI
3.25 (82.55)	5.62 (142.75)	2.50 (63.50)	—	SR253-WI☐-ND	9.67	7.68	253-WI
Fig. 6 — Standard Slant							
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05S☐-ND	5.54	4.40	05S
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR15-S☐-ND◆	5.99	4.75	15-S
6.88 (174.75)	4.88 (123.95)	1.88 (47.75)	0.90 (22.86)	SR07S☐-ND◆	7.94	6.30	07-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR17S☐-ND	8.63	6.85	17-S
Fig. 6 — Standard Slant Wall Mount							
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05SW☐-ND	5.92	4.70	05-SW
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR15SW☐-ND	6.33	5.03	15-SW
Fig. 7 — 9-Volt Slanted							
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR25-S☐-ND	7.43	5.90	25-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR27S☐-ND	9.86	7.83	27-S
Fig. 8 — C Series							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4☐-ND	2.08	1.65	C-4
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6☐-ND	2.30	1.83	C-6
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8☐-ND◆	2.30	1.83	C-8
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28☐-ND◆	2.99	2.38	C-28
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10☐-ND	2.68	2.13	C-10
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12☐-ND	2.90	2.30	C-12
Fig. 8 — C Series with Key Holder							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4KH☐-ND	3.56	2.83	C-4 KH
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6KH☐-ND	3.78	3.00	C-6 KH
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8KH☐-ND	3.78	3.00	C-8 KH
Fig. 8 — C Series with Pocket Clip							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4PC☐-ND	4.28	3.40	C-4 PC
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6PC☐-ND◆	4.50	3.58	C-6 PC
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8PC☐-ND	4.50	3.58	C-8 PC
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28PC☐-ND	5.20	4.13	C-28 PC
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10PC☐-ND	4.88	3.88	C-10 PC
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12PC☐-ND	5.10	4.05	C-12 PC
Fig. 8 — CH Series							
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4☐-ND	3.21	2.55	CH-4
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6☐-ND◆	3.21	2.55	CH-6
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8☐-ND◆	3.21	2.55	CH-8
Fig. 8 — CH Series with Key Holder							
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4KH☐-ND	4.69	3.73	CH-4 KH
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6KH☐-ND	4.69	3.73	CH-6 KH
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8KH☐-ND	4.69	3.73	CH-8 KH
Fig. 8 — CH Series with Pocket Clip							
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4PC☐-ND◆	5.42	4.30	CH-4 PC
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6PC☐-ND	5.42	4.30	CH-6 PC
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8PC☐-ND◆	5.42	4.30	CH-8 PC
Fig. 8 — C2 Series — RoHS Compliant							
1.25 (31.75)	1.90 (48.26)	.50 (12.70)	—	SCR2☐-ND	2.08	1.65	C2
Fig. 8 — C2 Series with Key Holder — RoHS Compliant							
1.25 (31.75)	1.90 (48.26)	.50 (12.70)	—	SCR2KH☐-ND	3.56	2.83	C2-KH
Fig. 8 — C2 Series with Pocket Clip — RoHS Compliant							
1.25 (31.75)	1.90 (48.26)	.50 (12.70)	—	SCR2PC☐-ND	4.28	3.40	C2-PC
Fig. 8 — C9 Series — RoHS Compliant							
2.08 (52.83)	2.83 (71.88)	.93 (23.62)	—	SCR9☐-ND	2.68	2.13	C9
Fig. 8 — C9 Series with Key Holder — RoHS Compliant							
2.08 (52.83)	2.83 (71.88)	.93 (23.62)	—	SCR9KH☐-ND	2.68	2.13	C9-KH
Fig. 8 — C9 Series with Pocket Clip — RoHS Compliant							
2.08 (52.83)	2.83 (71.88)	.93 (23.62)	—	SCR9PC☐-ND	4.88	3.88	C9-PC
Fig. 9 — M Series — RoHS Compliant							
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4☐-ND	5.04	4.00	M-4
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6☐-ND	6.62	5.25	M-6
2.40 (60.96)	6.97 (177.04)	0.86 (21.84)	—	SRM8☐-ND	8.19	6.50	M-8
Fig. 9 — M Series with Pocket Clip — RoHS Compliant							
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4PC☐-ND	7.25	5.75	M-4 PC
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6PC☐-ND	8.82	7.00	M-6 PC
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8PC☐-ND	10.40	8.25	M-8 PC
Fig. 9 — M Series with External Screws — RoHS Compliant							
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6IND☐-ND	8.00	6.35	M-6 IND
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8IND☐-ND	9.83	7.80	M-8 IND
M Series Lenses — RoHS Compliant							
M4 Series Clear				SRM4-FPC-ND	2.11	1.68	4004CL
M4 Series Infrared				SRM4-FPI-ND	2.61	2.08	4004IR
M6/8 Series Clear				SRM6/8-FPC-ND	2.17	1.73	4008CL
M6/8 Series Infrared				SRM6/8-FPI-ND	2.74	2.18	4008IR
Fig. 10 — H Series (Standard, AC, 9V, or AA) — RoHS Compliant							
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65☐-ND	5.17	4.10	H-65
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AA☐-ND	5.99	4.75	H-65 AA
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AC☐-ND	5.17	4.10	H-65 AC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9V☐-ND	5.73	4.55	H-65 9V
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67☐-ND	5.36	4.25	H-67
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AA☐-ND	6.11	4.85	H-67 AA
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AC☐-ND	5.32	4.23	H-67 AC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9V☐-ND	5.83	4.63	H-67 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75☐-ND	6.96	5.53	H-75

Box color ☐: B = Black, **G** = Gray, **A** = Almond ◆ *RoHS Compliant* ✔ ***NEW!*** *(Continued)*

Fig. 11 — G Series

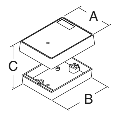

Fig. 12 — WM Series

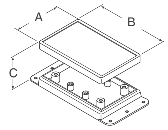

Fig. 13 — CA-4 Series

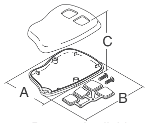

2-4 Buttons Available

Fig. 14 — CA-6 Series

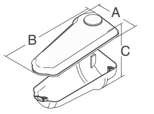

0-4 Buttons Available

Fig. 15 — CA-8 Series

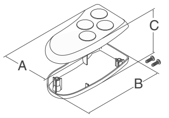

0-5 Buttons Available

Fig. 16 — CA-10 Series

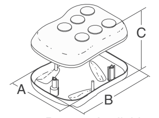

0-6 Buttons Available

Dimensions — Inch A	B	C	D	Digi-Key Part No.	Price Each 1	25	Serpac Series No.
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-9V☐-ND	7.94	6.30	H-75 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-4AA☐-ND	9.01	7.15	H-75 4AA
Fig. 10 — H Series with Pocket Clip							
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-PC☐-ND◆	7.37	5.85	H-65 PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AAPC☐-ND◆	8.19	6.50	H-65 AA-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-ACPC☐-ND◆	7.37	5.85	H-65 AC-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9VPC☐-ND	7.94	6.30	H-65 9V-PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AAPC☐-ND◆	8.32	6.60	H-67 AA-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-ACPC☐-ND◆	7.53	5.98	H-67 AC-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-PC☐-ND◆	7.56	6.00	H-67 PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9VPC☐-ND◆	8.03	6.38	H-67 9V-PC
Fig. 11 — G Series — No Insert or Access Hole — RoHS Compliant							
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10☐-ND	4.19	3.33	G10
5.06 (128.52)	4.38 (111.25)	0.89 (22.60)	—	SRG20A-ND	5.26	4.18	G-20 ALMOND
5.06 (128.52)	4.38 (111.25)	0.89 (22.60)	—	SRG20B-ND	5.26	4.18	G-20 BLACK
6.87 (174.50)	4.38 (111.25)	0.89 (22.60)	—	SRG30A-ND	6.02	4.78	G-30 ALMOND
6.87 (174.50)	4.38 (111.25)	0.89 (22.60)	—	SRG30B-ND	6.02	4.78	G-30 BLACK
Fig. 11 — G Series with Insert and Access Hole — RoHS Compliant							
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10A☐-ND	4.19	3.33	G10A
Fig. 12 — WM Series — RoHS Compliant							
2.25 (57.15)	3.60 (91.44)	1.10 (27.94)	—	SRW011-W☐-ND	4.10	3.25	WM011
2.25 (57.15)	3.60 (91.44)	1.60 (40.64)	—	SRW012-W☐-ND	4.35	3.45	WM012
2.25 (57.15)	3.60 (91.44)	2.10 (53.34)	—	SRW013-W☐-ND	5.20	4.13	WM013
2.60 (66.04)	4.10 (104.14)	1.10 (27.94)	—	SRW021-W☐-ND	4.69	3.73	WM021
2.60 (66.04)	4.10 (104.14)	1.60 (40.64)	—	SRW022-W☐-ND	5.36	4.25	WM022
2.60 (66.04)	4.10 (104.14)	2.10 (53.34)	—	SRW023-W☐-ND	5.42	4.30	WM023
3.25 (82.55)	4.38 (111.25)	1.10 (27.94)	—	SRW031-W☐-ND	5.20	4.13	WM031
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-W☐-ND	5.58	4.43	WM032
3.25 (82.55)	4.38 (111.25)	2.10 (53.34)	—	SRW033-W☐-ND	5.83	4.63	WM033
3.25 (82.55)	5.62 (142.75)	1.10 (27.94)	—	SRW051-W☐-ND	5.99	4.75	WM051
3.25 (82.55)	5.62 (142.75)	1.60 (40.64)	—	SRW052-W☐-ND	6.33	5.03	WM052
3.25 (82.55)	5.62 (142.75)	2.10 (53.34)	—	SRW053-W☐-ND	6.87	5.45	WM053
4.88 (123.95)	6.88 (174.75)	1.10 (27.94)	—	SRW071-W☐-ND	8.63	6.85	WM071
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-W☐-ND	9.70	7.70	WM072
4.88 (123.95)	6.88 (174.75)	2.10 (53.34)	—	SRW073-W☐-ND	10.21	8.10	WM073
6.34 (161.04)	9.50 (241.30)	1.10 (27.94)	—	SRW091-W☐-ND	12.92	10.25	WM091
6.34 (161.04)	9.50 (241.30)	1.60 (40.64)	—	SRW092-W☐-ND	13.26	10.53	WM092
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-W☐-ND	13.58	10.78	WM093
6.34 (161.04)	9.50 (241.30)	2.60 (66.04)	—	SRW094-W☐-ND✔	13.99	11.10	WM094
Fig. 12 — WM Series with Insert— RoHS Compliant							
2.25 (57.15)	3.60 (91.44)	0.60 (15.24)	—	SRW010-WI☐-ND	3.56	2.83	WM010-I
2.25 (57.15)	3.60 (91.44)	1.10 (27.94)	—	SRW011-WI☐-ND	4.10	3.25	WM011-I
2.25 (57.15)	3.60 (91.44)	1.60 (40.64)	—	SRW012-WI☐-ND	4.35	3.45	WM012-I
2.25 (57.15)	3.60 (91.44)	2.10 (53.34)	—	SRW013-WI☐-ND	5.20	4.13	WM013-I
2.60 (66.04)	4.10 (104.14)	1.10 (27.94)	—	SRW021-WI☐-ND	4.69	3.73	WM021-I
2.60 (66.04)	4.10 (104.14)	1.60 (40.64)	—	SRW022-WI☐-ND	5.36	4.25	WM022-I
2.60 (66.04)	4.10 (104.14)	2.10 (53.34)	—	SRW023-WI☐-ND	5.42	4.30	WM023-I
3.25 (82.55)	4.38 (111.25)	1.10 (27.94)	—	SRW031-WI☐-ND	5.20	4.13	WM031-I
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-WI☐-ND	5.58	4.43	WM032-I
3.25 (82.55)	4.38 (111.25)	2.10 (53.34)	—	SRW033-WI☐-ND	5.83	4.63	WM033-I
3.25 (82.55)	5.62 (142.75)	1.10 (27.94)	—	SRW051-WI☐-ND	5.99	4.75	WM051-I
3.25 (82.55)	5.62 (142.75)	1.60 (40.64)	—	SRW052-WI☐-ND	6.33	5.03	WM052-I
3.25 (82.55)	5.62 (142.75)	2.10 (53.34)	—	SRW053-WI☐-ND	6.87	5.45	WM053-I
4.88 (123.95)	6.88 (174.75)	1.10 (27.94)	—	SRW071-WI☐-ND	8.63	6.85	WM071-I
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-WI☐-ND	9.70	7.70	WM072-I
4.88 (123.95)	6.88 (174.75)	2.10 (53.34)	—	SRW073-WI☐-ND	10.21	8.10	WM073-I
6.34 (161.04)	9.50 (241.30)	1.10 (27.94)	—	SRW091-WI☐-ND	12.92	10.25	WM091-I
6.34 (161.04)	9.50 (241.30)	1.60 (40.64)	—	SRW092-WI☐-ND	13.26	10.53	WM092-I
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-WI☐-ND	13.58	10.78	WM093-I
6.34 (161.04)	9.50 (241.30)	2.60 (66.04)	—	SRW094-WI☐-ND✔	13.99	11.10	WM094-I
Fig. 12 — WM Series with Front Access — RoHS Compliant							
2.27 (57.66)	3.60 (91.44)	1.10 (27.94)	—	SRW011-WR☐-ND	5.51	4.38	WM011-R
2.27 (57.66)	3.60 (91.44)	1.60 (40.64)	—	SRW012-WR☐-ND	5.76	4.58	WM012-R
2.27 (57.66)	3.60 (91.44)	2.10 (53.34)	—	SRW013-WR☐-ND	6.58	5.23	WM013-R
2.60 (66.04)	4.10 (104.14)	1.10 (27.94)	—	SRW021-WR☐-ND	5.95	4.73	WM021-R
2.60 (66.04)	4.10 (104.14)	1.60 (40.64)	—	SRW022-WR☐-ND	6.05	4.80	WM022-R
2.60 (66.04)	4.10 (104.14)	2.10 (53.34)	—	SRW023-WR☐-ND	6.11	4.85	WM023-R
3.25 (82.55)	4.38 (111.25)	1.10 (27.94)	—	SRW031-WR☐-ND	6.87	5.45	WM031-R
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-WR☐-ND	6.96	5.53	WM032-R
3.25 (82.55)	4.38 (111.25)	2.10 (53.34)	—	SRW033-WR☐-ND	5.99	4.75	WM033-R
3.25 (82.55)	5.62 (142.75)	1.10 (27.94)	—	SRW051-WR☐-ND	7.37	5.85	WM051-R
3.25 (82.55)	5.62 (142.75)	1.60 (40.64)	—	SRW052-WR☐-ND	7.72	6.13	WM052-R
3.25 (82.55)	5.62 (142.75)	2.10 (53.34)	—	SRW053-WR☐-ND	8.25	6.55	WM053-R
4.88 (123.95)	6.88 (174.75)	1.10 (27.94)	—	SRW071-WR☐-ND	10.71	8.50	WM071-R
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-WR☐-ND	11.81	9.38	WM072-R
4.88 (123.95)	6.88 (174.75)	2.10 (53.34)	—	SRW073-WR☐-ND	12.29	9.75	WM073-R
6.34 (161.04)	9.50 (241.30)	1.10 (27.94)	—	SRW091-WR☐-ND	16.41	13.03	WM091-R
6.34 (161.04)	9.50 (241.30)	1.60 (40.64)	—	SRW092-WR☐-ND	15.34	12.18	WM092-R
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-WR☐-ND	15.69	12.45	WM093-R
6.34 (161.04)	9.50 (241.30)	2.60 (66.04)	—	SRW094-WR☐-ND✔	18.11	14.38	WM094-R
Fig. 12 — WM Series with Front Access and Insert — RoHS Compliant							
2.27 (57.66)	3.60 (91.44)	1.10 (27.94)	—	SRW011-WRI☐-ND	5.51	4.38	WM011-RI
2.27 (57.66)	3.60 (91.44)	1.60 (40.64)	—	SRW012-WRI☐-ND	5.76	4.58	WM012-RI
2.27 (57.66)	3.60 (91.44)	2.10 (53.34)	—	SRW013-WRI☐-ND	6.58	5.23	WM013-RI
2.60 (66.04)	4.10 (104.14)	1.10 (27.94)	—	SRW021-WRI☐-ND	5.95	4.73	WM021-RI
2.60 (66.04)	4.10 (104.14)	1.60 (40.64)	—	SRW022-WRI☐-ND	6.05	4.80	WM022-RI
2.60 (66.04)	4.10 (104.14)	2.10 (53.34)	—	SRW023-WRI☐-ND	6.11	4.85	WM023-RI
3.25 (82.55)	4.38 (111.25)	1.10 (27.94)	—	SRW031-WRI☐-ND	6.87	5.45	WM031-RI
3.25 (82.55)	4.38 (111.25)	1.60 (40.64)	—	SRW032-WRI☐-ND	6.96	5.53	WM032-RI
3.25 (82.55)	4.38 (111.25)	2.10 (53.34)	—	SRW033-WRI☐-ND	5.99	4.75	WM033-RI
3.25 (82.55)	5.62 (142.75)	1.10 (27.94)	—	SRW051-WRI☐-ND	7.37	5.85	WM051-RI
3.25 (82.55)	5.62 (142.75)	1.60 (40.64)	—	SRW052-WRI☐-ND	7.72	6.13	WM052-RI
3.25 (82.55)	5.62 (142.75)	2.10 (53.34)	—	SRW053-WRI☐-ND	8.25	6.55	WM053-RI
4.88 (123.95)	6.88 (174.75)	1.10 (27.94)	—	SRW071-WRI☐-ND	10.71	8.50	WM071-RI
4.88 (123.95)	6.88 (174.75)	1.60 (40.64)	—	SRW072-WRI☐-ND	11.81	9.38	WM072-RI
4.88 (123.95)	6.88 (174.75)	2.10 (53.34)	—	SRW073-WRI☐-ND	12.29	9.75	WM073-RI
6.34 (161.04)	9.50 (241.30)	1.10 (27.94)	—	SRW091-WRI☐-ND	16.41	13.03	WM091-RI
6.34 (161.04)	9.50 (241.30)	1.60 (40.64)	—	SRW092-WRI☐-ND	15.34	12.18	WM092-RI
6.34 (161.04)	9.50 (241.30)	2.10 (53.34)	—	SRW093-WRI☐-ND	15.69	12.45	WM093-RI
6.34 (161.04)	9.50 (241.30)	2.60 (66.04)	—	SRW094-WRI☐-ND✔	18.11	14.38	WM094-RI
EMI Enclosures (No Battery Clips)							
Fig. 1 — A Series - EMI - 9-Volt — RoHS Compliant							
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27E-B-ND	13.14	10.43	A-219V
Fig. 2 — Standard							
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131E-B-ND◆	8.00	6.35	131-EMI-BLACK
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151E-B-ND◆	9.48	7.53	151-EMI-BLACK
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172E-B-ND◆	15.21	12.08	172-EMI-BLACK
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191E-B-ND	20.95	16.63	191-EMI-BLACK
Fig. 5 — 9-Volt Standard							
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR211E-B-ND	7.65	6.08	221-EMI-BLACK
Fig. 5 — 9-Volt with Insert (Non-Textured Top) — RoHS Compliant							
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231E-B-ND	9.48	7.53	231-I-EMI-BLACK
Fig. 6 — Standard Slant — RoHS Compliant							
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	.968 (24.59)	SR015E-B-ND	9.48	7.53	15-S-EMI-BLACK
Fig. 9 — Remote M Series — RoHS Compliant							
2.40 (60.96)	4.15 (105.41)	.85 (21.59)	—	SRM6E-9VB-ND	10.21	8.10	M-6-EMI-BLACK

Box color ☐: **B** = Black, **G** = Gray, **A** = Almond ◆ ***RoHS Compliant*** ✔ ***NEW!***

Description	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 1 — A Series Optional End Panels					
A20 Series End Panel	SRA20-☐☐-ND	1.86	1.48	1.27	2003
A20 Series End Panel with DB9	SR2003-DB9B-ND◆	1.42	1.13	.97	2003 DB9 BK
A20 Series End Panel with DB25	SR2003-DB25B-ND◆	1.42	1.13	.97	2003 DB25 BK
A21 Series End Panel	SRA21-☐☐-ND◆	1.86	1.48	1.27	2005
A21 9V Series Black End Panel	SRA21-9VBK-ND◆	1.26	1.00	.86	2006 BK
A21 Series End Panel with DB9	SR2005-DB9B-ND◆	1.42	1.13	.97	2005 DB9 BK
A21 Series End Panel with DB25	SR2005-DB25B-ND◆	1.42	1.13	.97	2005 DB25 BK
A27 Series End Panel	SRA27-☐☐-ND◆	2.05	1.63	1.40	2010
A27 9V Series Black End Panel	SRA27-9VBK-ND◆	1.39	1.10	.95	2011 BK
A27 Series End Panel with DB9	SR2010-DB9B-ND◆	1.58	1.25	1.08	2010 DB9 BK
A27 Series End Panel with DB25	SR2010-DB25B-ND	1.58	1.25	1.08	2010 DB25 BK
A31 Series End Panel	SRA31-☐☐-ND	3.31	2.63	2.26	2015
A31 9V Series Black End Panel	SRA31-9VBK-ND◆	2.36	1.88	1.62	2016 BK
A31 Series End Panel with DB9	SR2015-DB9B-ND	2.71	2.15	1.85	2015 DB9 BK
A31 Series End Panel with DB25	SR2015-DB25B-ND	2.71	2.15	1.85	2015 DB25 BK
A41 Series End Panel	SRA41-BK-ND	2.05	1.63	1.40	2020
A41 9V Series Black End Panel	SRA41-9VBK-ND◆	2.05	1.63	1.40	2021 BK
A41 Series End Panel with DB9	SR2020-DB9B-ND◆	2.30	1.83	1.57	2020 DB9 BK
A42 Series End Panel	SRA42-☐☐-ND	3.31	2.63	2.26	2024
A42 9V Series Black End Panel	SRA42-9VBK-ND◆	2.36	1.88	1.62	2025 BK
A42 Series End Panel with DB9	SR2024-DB9B-ND◆	2.71	2.15	1.85	2024 DB9 BK
A42 Series End Panel with DB25	SR2024-DB25B-ND	2.71	2.15	1.85	2024 DB25 BK

Lens color ☐☐ **IR** = Infrared, **CL** = Clear, **BK** = Black ◆ ***RoHS Compliant***

Dimensions Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 8 — C Series Translucent							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	SCR4T☐-ND	2.30	1.83	1.57	C-4 TR
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	SCR6T☐-ND	2.52	2.00	1.72	C-6 TR
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	SCR8T☐-ND	2.52	2.00	1.72	C-8 TR
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	SCR10T☐-ND◆	2.96	2.35	2.03	C-10 TR
Fig. 9 — M Series Translucent — RoHS Compliant							
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	SRM4T☐-ND	10.05	7.98	6.86	M-4 TR
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	SRM6T☐-ND	12.54	9.95	8.56	M-6 TR
Fig. 10 — H Series Translucent							
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65T☐-ND◆	8.73	6.93	5.96	H-65 TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-AAT☐-ND◆	9.89	7.85	6.76	H-65 AA TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-9VT☐-ND	7.75	6.15	5.29	H-65 9V TR

Translucent Box color ☐: **L** = Translucent Blue, **G** = Translucent Green, **S** = Translucent Gray, **R** = Translucent Red
◆ ***RoHS Compliant***

Fig.	Dimensions Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
CA Series — RoHS Compliant								
13	1.73 (43.94)	2.53 (64.26)	0.65 (16.51)	SRCA4-☒☐-ND	4.85	3.85	3.32	CA-4
14	1.51 (38.35)	3.05 (77.47)	1.05 (26.67)	SRCA6-☒☐-ND	6.93	5.50	4.73	CA-6
15	1.87 (47.50)	3.32 (84.33)	1.00 (25.40)	SRCA8-☒☐-ND	7.28	5.78	4.97	CA-8
16	2.56 (65.02)	3.40 (86.36)	1.02 (25.91)	SRCA10-☒☐-ND	8.54	6.78	5.83	CA-10

Number of Buttons ☒: 0 through 6 *(See figures for number of buttons available per series)*
Box color ☐: **B** = Black, **G** = Gray, **A** = Almond

K

SERPAC
Electronic Enclosures

R-Series Enclosures

Features:

- SR-RX = Flame Retardant, UV protected and Chemical resistant
- Unbreakable light-weight structural resin
- O-Ring watertight/airtight seal
- Pressure purge valve under latch
- Ergonomic handle
- Corrosion proof
- Materials: SR-R Polypropylene and SR-RX PVC

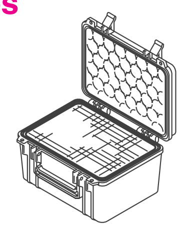

Dimensions L x W x H (Inch)		Digi-Key Part No.	Price Each		Serpac Series No.
Internal	External		1	10	
R-Series Case					
Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-☐-ND◆	19.06	16.64	R-120
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-☐-ND	20.34	16.89	R-300
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-☐-ND	49.72	41.27	R-520
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-☐-ND	62.38	51.78	R-710
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-☐-ND	66.58	55.27	R-720
With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-F☐-ND◆	15.84	13.15	R-120 FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-F☐-ND	28.12	23.34	R-300 FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-F☐-ND	68.74	57.06	R-520 FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-F☐-ND	87.86	72.93	R-710 FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-F☐-ND	101.20	84.00	R-720 FOAM

◆ ***RoHS Compliant*** ***Note:*** ☐ = Case Color: **B** = Black; **G** = Gray; **Y** = Yellow; **O** = Orange

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Flambeau®
INDUSTRIAL PRODUCTS & PACKAGING SOLUTIONS

Plastic Storage Systems

RoHS COMPLIANT

Fig. 1

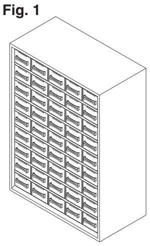

Fig. 2

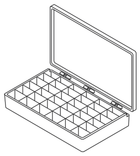

Fig. 3

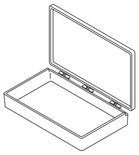

Fig. 4

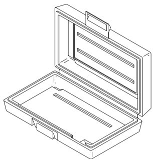

Plastic Frame Storage

Sturdy shell and drawer rail structure for extra strength. These rugged cabinets can be stacked or wall mounted for greater storage flexibility. Drawers are in clear styrene resin for optimum visibility and speedy retrieval of contents. Each cabinet features drawer stops to prevent accidental spills.

Cabinets

Fig.	Dimensions – Inch (mm)			Compart-ments	Digi-Key Part No.	Price Each			Flambeau Model No.
	L	W	D			1	10	100	
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1013-ND	25.82	21.44	19.37	C20P
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1015-ND	34.98	29.04	26.24	C26P
	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1022-ND	25.82	21.44	19.37	U30P
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1024-ND	34.98	29.04	26.24	U45P

K Series Box

Noted for heavy-duty applications, this styrene butadiene copolymer box has excellent impact properties and also maintains scratch resistance and transparent qualities.

Fig.	Dimensions Inch (mm)			Compart-ments	Digi-Key Part No.	Price Each			Flambeau Model No.
	L	W	D			1	10	100	
2	9.63 (244.60)	6.56 (166.62)	1.5 (38.10)	36	CTS36-ND	7.40	6.15	5.55	K166-36

Conductive Storage

Conductive cabinets are built in accordance with the guidelines of DOD-HDT3K-263 to bleed off any static charge at a safe controlled rate when properly connected to a ground. Each cabinet comes with a static-safe ground wire which protects users against electrical shock. Color: black

Cabinets

Fig.	Dimensions – Inch (mm)			Compart-ments	Digi-Key Part No.	Price Each			Flambeau Model No.
	L	W	D			1	10	100	
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1014-ND	77.26	64.13	57.95	C20P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1016-ND	102.68	85.23	77.01	C26P-C
	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1021-ND	74.28	61.66	55.71	U30P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1023-ND	103.70	86.08	77.78	U45P-C
	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1014-ND	77.26	64.13	57.95	C20P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1016-ND	102.68	85.23	77.01	C26P-C

Boxes

Fig.	Dimensions Inch (mm)			Compart-ments	Digi-Key Part No.	Price Each			Flambeau Model No.
	L	W	D			1	10	100	
3	13.13 (333.50)	9 (228.6)	2.32 (58.93)	1	510-1019-ND	25.97	25.05	23.19	C801

Cases

Features: • Molded from a proprietary high density polyethylene carbon loaded blend of materials • Conductive <10^5 Ω/in^2 • Anti-Static: 10^9 ~ 10^{13} Ω/in^2 • Faraday Cage Protection • Color: black

Fig.	Internal Dimensions Inch (mm)			Digi-Key Part No.	Price Each			Flambeau Model No.
	L	W	D		1	10	100	
4	5.06 (128.52)	2.75 (69.85)	1.0 (25.4)	510-1009-ND	9.48	7.87	7.11	50019
	11.88 (301.75)	8.19 (208.03)	1.25 (31.75)	510-1006-ND	17.57	16.95	15.69	50015
	17.5 (444.5)	13.5 (342.9)	1.31 (33.27)	510-1011-ND	33.74	32.54	30.13	50023
	18.44 (468.38)	17.69 (449.33)	1.94 (49.28)	510-1010-ND	56.14	54.14	50.13	50021

Radios.INC

Plastic Keyfob Enclosures

RoHS COMPLIANT

The KF100 is a single, two or three button handheld keyfob enclosure molded from high-impact ABS plastic in a variety of colors. Designed for use with the KFB-100 buttons and the enclosure can accommodate a 12V battery or 20mm coin cell.

Dimensions in Inches

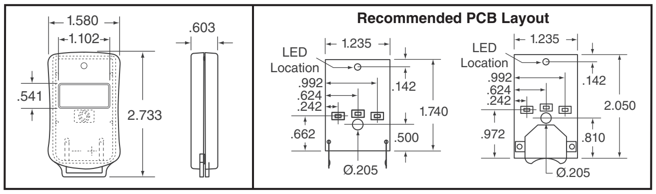

Handheld Keyfob Enclosures

Color	Number of Buttons	Digi-Key Part No.	Price Each	Radios Inc. Part No.
Red	up to 3 with KFB below	694-1034-ND	2.72	KF100-2
Blue	up to 3 with KFB below	694-1035-ND	2.72	KF100-3
Yellow	up to 3 with KFB below	694-1036-ND	2.72	KF100-4

Typical Applications:
• Remote Controls • Garage Door Openers • RKE (Remote Keyless Entry) • Home/Industrial Automation • Security

Handheld Keyfob Buttons

Color	Number of Buttons	Digi-Key Part No.	Price Each	Radios Inc. Part No.
Black	1	694-1038-ND	.48	KFB100-1-1
Red	1	694-1039-ND	.48	KFB100-2-1
Blue	1	694-1040-ND	.48	KFB100-3-1
Yellow	1	694-1041-ND	.48	KFB100-4-1
Red	2	694-1044-ND	.48	KFB100-2-2
Blue	2	694-1045-ND	.48	KFB100-3-2
Yellow	2	694-1046-ND	.48	KFB100-4-2
Red	3	694-1049-ND	.48	KFB100-2-3
Blue	3	694-1050-ND	.48	KFB100-3-3

Dimensions in Inch (mm)

Fig. 1 — Gasketed Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings.
Indoor Version:
- ABS/PC blended plastic with UL94-5VB flammability rating
- Clear doors polycarbonate with UL94V-0 flammability rating
- Suggested service temperature -40°C ~ 70°C

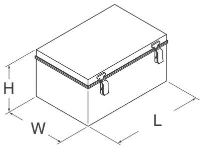

Fig. 2 — Plastic NEMA Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings
Style 1: • Light gray polycarbonate body and cover • UV stabilized • UL94V-2 flammability rating **Style 2:** • Light gray polycarbonate body and clear polycarbonate cover • UV stabilized • UL94V-2 flammability rating
Style 3: • Dark gray ABS body and cover • UL94-HB flammability rating

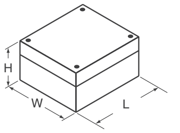

Fig. 3 — NEMA Enclosures 4x Gland

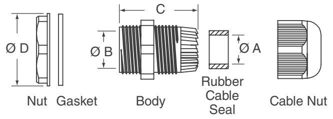

Fig. 4 — Blue Transparent NEMA Boxes

Meets NEMA 1, 2, 4, 4X, 12, 13, IEC52/IP65 and UL508-4X Ratings
- Transparent blue polycarbonate
- UV stabilized polycarbonate with UL94-V2 flammability rating

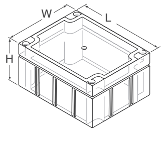

Fig. 5 — Fiberglass NEMA Boxes

Meets NEMA 1, 2, 4, 4X, 12, 13 and IP66 Ratings
- Fiberglass Reinforced Plastic (SMC) • Provides outstanding protection against corrosion • Chemical resistant and impervious to dents • Stainless Steel hinge, screws, wall mounting brackets • Listed and tested to UL-508-4X requirements

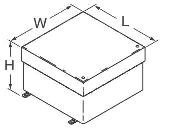

Fig. 6 — Fiberglass NEMA Boxes with Latches *NEW!*

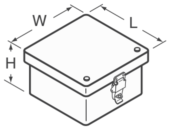

NEMA / Watertight Polycarbonate Enclosures

Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
L	W	H		1	5	
Fig. 1 — NBA Series – Stainless Steel Hinges						
7.85 (199.39)	11.80 (299.72)	7.09 (180.09)	377-1138-ND†	67.30	56.07	NBA-10144
11.80 (299.72)	15.75 (400.05)	7.09 (180.09)	377-1139-ND†	99.20	82.67	NBA-10148
7.85 (199.39)	11.80 (299.72)	5.97 (151.64)	377-1140-ND§	63.90	53.25	NBA-10162
Fig. 1 — NBB Series – Plastic Hinges						
5.90 (149.86)	5.90 (149.86)	3.57 (90.68)	377-1141-ND†	20.20	16.85	NBB-10240
7.47 (189.79)	11.28 (286.512)	5.50 (141.35)	377-1142-ND†	44.00	36.65	NBB-10243
13.00 (330.2)	13.00 (330.2)	7.04 (178.82)	377-1143-ND†	60.80	50.67	NBB-10245
11.73 (297.94)	15.68 (398.27)	6.30 (160.02)	377-1144-ND†	58.40	48.65	NBB-10247
5.90 (149.86)	5.90 (149.86)	3.57 (90.68)	377-1245-ND§	23.20	19.32	NBB-10260
5.90 (149.86)	5.90 (149.86)	3.57 (90.68)	377-1246-ND†	23.40	19.52	NBB-15240
5.90 (149.86)	5.90 (149.86)	3.57 (90.68)	377-1660-ND† ***NEW!***	12.30	10.25	NBB-32640
Fig. 1 — NBD Series – Non-Metallic Phillips Drive Fasteners						
11.02 (279.91)	7.48 (189.99)	5.03 (127.76)	377-1145-ND†	44.70	37.25	NBD-10442
Fig. 1 — NBE Series – Plastic Hinges / Aluminum Swing-out Panel						
11.28 (286.512)	7.47 (189.79)	5.50 (141.35)	377-1146-ND§	82.70	69.06	NBE-10563
15.68 (398.27)	11.73 (297.94)	6.30 (160.02)	377-1147-ND§	108.30	90.45	NBE-10567
19.17 (486.92)	14.64 (371.86)	7.85 (199.39)	377-1148-ND§	163.90	136.87	NBE-10573
NEW! Fig. 1 — NBF Series – ABS Enclosures NEW!						
5.11 (129.79)	3.93 (99.82)	2.75 (69.85)	377-1761-ND†	8.90	—	NBF-32002
5.90 (149.86)	3.93 (99.82)	2.75 (69.85)	377-1762-ND†	10.00	—	NBF-32004
7.87 (199.90)	3.93 (99.82)	2.75 (69.85)	377-1763-ND†	12.30	—	NBF-32006
10.63 (270.00)	3.93 (99.82)	2.75 (69.85)	377-1764-ND†	13.20	—	NBF-32008
5.90 (149.86)	5.90 (149.86)	3.54 (89.92)	377-1765-ND†	11.30	—	NBF-32010
11.81 (299.97)	7.87 (199.90)	6.29 (159.77)	377-1766-ND†	24.60	—	NBF-32018
15.74 (399.80)	11.81 (299.97)	6.29 (159.77)	377-1767-ND†	37.60	—	NBF-32026
19.68 (499.87)	15.74 (399.80)	6.29 (159.77)	377-1768-ND†	60.10	—	NBF-32032
20.86 (529.84)	16.92 (429.77)	7.87 (199.90)	377-1769-ND†	115.10	—	NBF-32038
23.62 (599.95)	19.68 (499.87)	9.84 (249.94)	377-1770-ND†	221.20	—	NBF-32042
27.55 (699.77)	19.68 (499.87)	9.84 (249.94)	377-1771-ND†	240.40	—	NBF-32046
5.11 (129.79)	3.93 (99.82)	2.75 (69.85)	377-1772-ND†	13.30	—	NBF-32102
5.90 (149.86)	3.93 (99.82)	2.75 (69.85)	377-1773-ND†	17.60	—	NBF-32104
7.87 (199.90)	3.93 (99.82)	2.75 (69.85)	377-1774-ND†	19.60	—	NBF-32106
10.63 (270.00)	3.93 (99.82)	2.75 (69.85)	377-1775-ND†	20.90	—	NBF-32108
5.90 (149.86)	5.90 (149.86)	3.54 (89.92)	377-1776-ND†	20.00	—	NBF-32110
11.81 (299.97)	7.87 (199.90)	6.29 (159.77)	377-1777-ND†	41.70	—	NBF-32118
15.74 (399.80)	11.81 (299.97)	6.29 (159.77)	377-1778-ND†	74.60	—	NBF-32126
19.68 (499.87)	15.74 (399.80)	6.29 (159.77)	377-1779-ND†	107.70	—	NBF-32132
20.86 (529.84)	16.92 (429.77)	7.87 (199.90)	377-1780-ND†	208.60	—	NBF-32138
23.62 (599.95)	19.68 (499.87)	9.84 (249.94)	377-1781-ND†	285.50	—	NBF-32142
27.55 (699.77)	19.68 (499.87)	9.84 (249.94)	377-1782-ND†	319.60	—	NBF-32146
5.11 (129.79)	3.93 (99.82)	2.75 (69.85)	377-1783-ND§	13.30	—	NBF-32202
5.90 (149.86)	3.93 (99.82)	2.75 (69.85)	377-1784-ND§	17.60	—	NBF-32204
7.87 (199.90)	3.93 (99.82)	2.75 (69.85)	377-1785-ND§	19.60	—	NBF-32206
10.63 (270.00)	3.93 (99.82)	2.75 (69.85)	377-1786-ND§	20.90	—	NBF-32208
5.90 (149.86)	5.90 (149.86)	3.54 (89.92)	377-1787-ND§	20.00	—	NBF-32210
11.81 (299.97)	7.87 (199.90)	6.29 (159.77)	377-1788-ND§	41.70	—	NBF-32218
15.74 (399.80)	11.81 (299.97)	6.29 (159.77)	377-1789-ND§	74.60	—	NBF-32226
19.68 (499.87)	15.74 (399.80)	6.29 (159.77)	377-1790-ND§	107.70	—	NBF-32232
20.86 (529.84)	16.92 (429.77)	7.87 (199.90)	377-1791-ND§	208.60	—	NBF-32238
23.62 (599.95)	19.68 (499.87)	9.84 (249.94)	377-1792-ND§	285.50	—	NBF-32242
27.55 (699.77)	19.68 (499.87)	9.84 (249.94)	377-1793-ND§	319.60	—	NBF-32246
NEW! Plastic Internal Panels for NB Series NEW!						
3.56 (90.42)	2.56 (65.02)	—	377-1664-ND	.90	.75	NBX-10975-PL
4.55 (115.57)	2.56 (65.02)	—	377-1665-ND	1.00	.84	NBX-10976-PL
6.50 (165.10)	2.56 (65.02)	—	377-1666-ND	1.40	1.17	NBX-10977-PL
9.25 (234.95)	2.56 (65.02)	—	377-1667-ND	1.70	1.42	NBX-10978-PL
9.25 (234.95)	5.37 (136.40)	—	377-1668-ND	4.30	3.59	NBX-10979-PL
10.5 (266.70)	6.7 (170.18)	—	377-1669-ND	7.60	6.34	NBX-10980-PL
14.3 (363.22)	10.4 (264.16)	—	377-1670-ND	14.80	12.34	NBX-10981-PL
18.2 (462.28)	14.3 (363.22)	—	377-1671-ND	27.90	23.25	NBX-10982-PL
4.9 (124.46)	4.9 (124.46)	—	377-1672-ND	2.30	1.92	NBX-10984-PL
9.9 (251.46)	6.3 (160.02)	—	377-1673-ND	4.40	3.67	NBX-10985-PL
11.5 (292.10)	11.5 (292.10)	—	377-1674-ND	13.30	11.09	NBX-10986-PL
14.3 (363.22)	10.4 (264.16)	—	377-1675-ND	14.80	12.34	NBX-10987-PL
14.3 (363.22)	10.4 (264.16)	—	377-1676-ND	13.60	11.34	NBX-10988-PL
17.6 (447.04)	13.1 (332.74)	—	377-1677-ND	22.60	18.84	NBX-10990-PL
13.9 (353.06)	6.3 (160.02)	—	377-1678-ND	13.00	10.84	NBX-10994-PL
12.3 (312.42)	9.9 (251.46)	—	377-1679-ND	13.00	10.84	NBX-10996-PL
13.8 (350.52)	9.9 (251.46)	—	377-1680-ND	12.80	10.67	NBX-10997-PL

Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
L	W	H		1	10	
Fig. 2 — Plastic NEMA Enclosures — Style 1						
2.28 (57.91)	2.56 (65.02)	1.38 (35.05)	377-1112-ND	7.40	6.15	PN-1320
2.56 (65.02)	4.53 (115.06)	1.57 (39.88)	377-1114-ND	10.80	9.02	PN-1321
2.56 (65.02)	4.53 (115.06)	2.17 (55.12)	377-1116-ND	11.70	9.75	PN-1322
3.54 (89.92)	4.53 (115.06)	2.17 (55.12)	377-1119-ND	13.40	11.15	PN-1323
4.76 (120.90)	6.73 (170.94)	2.17 (55.12)	377-1122-ND	18.80	15.65	PN-1324
5.75 (146.05)	8.74 (221.99)	2.17 (55.12)	377-1125-ND	24.90	20.75	PN-1325
4.76 (120.90)	6.73 (170.94)	3.15 (80.01)	377-1127-ND	21.30	17.74	PN-1327
3.54 (89.92)	4.53 (115.06)	3.15 (80.01)	377-1129-ND	16.40	13.65	PN-1328
5.75 (146.05)	8.74 (221.99)	2.95 (74.93)	377-1131-ND	28.60	23.82	PN-1329
3.15 (80.01)	6.30 (160.02)	3.35 (85.09)	377-1134-ND	16.50	13.75	PN-1333
4.72 (119.89)	7.87 (199.90)	2.95 (74.93)	377-1136-ND	23.40	19.50	PN-1334
7.28 (184.91)	10.43 (264.93)	3.74 (94.99)	377-1258-ND	38.40	32.15	PN-1335
Fig. 2 — Plastic NEMA Enclosures — Style 2						
2.56 (65.02)	4.53 (115.06)	1.57 (39.88)	377-1255-ND	11.10	9.27	PN-1321-C
2.56 (65.02)	4.53 (115.06)	2.17 (55.12)	377-1117-ND	12.00	10.00	PN-1322-C
3.54 (89.92)	4.53 (115.06)	2.17 (55.12)	377-1120-ND	13.90	11.59	PN-1323-C
4.76 (120.90)	6.73 (170.94)	2.17 (55.12)	377-1123-ND	19.40	16.15	PN-1324-C
5.75 (146.05)	8.74 (221.99)	2.95 (74.93)	377-1256-ND	28.60	23.82	PN-1329-C
3.15 (80.01)	6.30 (160.02)	2.17 (55.12)	377-1133-ND	15.70	13.10	PN-1332-C
4.72 (119.89)	7.87 (199.90)	2.95 (74.93)	377-1257-ND	23.70	19.75	PN-1334-C
Fig. 2 — Plastic NEMA Enclosures — Style 3						
2.28 (57.91)	2.56 (65.02)	1.38 (35.05)	377-1113-ND	5.90	4.90	PN-1320-DG
2.56 (65.02)	4.53 (115.06)	1.57 (39.88)	377-1115-ND	7.60	6.34	PN-1321-DG
2.56 (65.02)	4.53 (115.06)	2.17 (55.12)	377-1118-ND	8.50	7.09	PN-1322-DG
3.54 (89.92)	4.53 (115.06)	2.17 (55.12)	377-1121-ND	10.30	8.57	PN-1323-DG
4.76 (120.90)	6.73 (170.94)	2.17 (55.12)	377-1124-ND	14.90	12.44	PN-1324-DG
5.75 (146.05)	8.74 (221.99)	2.17 (55.12)	377-1126-ND	20.20	16.84	PN-1325-DG
4.76 (120.90)	6.73 (170.94)	3.15 (80.01)	377-1128-ND	14.70	12.24	PN-1327-DG
3.54 (89.92)	4.53 (115.06)	3.15 (80.01)	377-1130-ND	11.10	9.24	PN-1328-DG
5.75 (146.05)	8.74 (221.99)	2.95 (74.93)	377-1132-ND	18.00	14.99	PN-1329-DG
3.15 (80.01)	6.30 (160.02)	3.35 (85.09)	377-1135-ND	13.00	10.85	PN-1333-DG
4.72 (119.89)	7.87 (199.90)	2.95 (74.93)	377-1137-ND	17.30	14.40	PN-1334-DG
7.28 (184.91)	10.43 (264.93)	3.74 (94.99)	377-1259-ND	29.10	24.35	PN-1335-DG

† Solid doors § Clear doors

Dimensions - Inch (mm)				Digi-Key Part No.	Price Each		Bud Ind. Part No.
A	B	C	D		1	10	
Fig. 3 — NEMA Enclosures 4x Gland							
0.197 (5.00)	0.315 (8.00)	1.102 (27.99)	0.827 (21.00)	377-1630-ND	1.70	1.42	NG-9511
0.283 (7.18)	0.374 (9.50)	1.169 (29.69)	0.921 (23.39)	377-1631-ND	1.70	1.42	NG-9512

Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
L	W	H		1	10	
Fig. 4 — Blue Transparent NEMA Boxes						
4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1542-ND	14.60	12.20	BT-2723
6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1543-ND	21.30	17.80	BT-2724
8.74 (222.00)	5.75 (146.05)	2.17 (55.12)	377-1544-ND	28.10	23.45	BT-2725
6.73 (170.94)	4.76 (120.90)	3.15 (80.01)	377-1545-ND	24.90	20.80	BT-2727
7.87 (199.90)	4.72 (119.89)	2.95 (74.93)	377-1546-ND	24.30	20.30	BT-2734
9.45 (240.03)	6.30 (160.02)	3.54 (89.92)	377-1547-ND	34.10	28.45	BT-2740
11.81 (299.97)	9.06 (230.12)	3.39 (86.11)	377-1548-ND	79.00	65.95	BT-2742
Fig. 5 — Fiberglass NEMA Boxes						
7.75 (196.85)	7.75 (196.85)	4.80 (121.92)	377-1565-ND	43.80	36.52	NF-6610
7.75 (196.85)	9.64 (244.86)	4.80 (121.92)	377-1566-ND	45.10	37.57	NF-6611
9.90 (251.46)	11.78 (299.21)	6.80 (172.72)	377-1567-ND	59.00	49.15	NF-6612
11.90 (302.26)	13.78 (350.01)	6.80 (172.72)	377-1568-ND	70.30	58.57	NF-6613
13.90 (353.06)	15.78 (400.81)	6.80 (172.72)	377-1569-ND	82.30	68.59	NF-6614
NEW! Fig. 6 — Fiberglass NEMA Boxes with Latches NEW!						
7.75 (196.85)	7.75 (196.85)	4.50 (114.30)	377-1681-ND	61.20	51.00	NFL-6630
7.75 (196.85)	9.64 (244.86)	4.50 (114.30)	377-1682-ND	68.00	56.67	NFL-6631
9.90 (251.46)	11.78 (299.21)	6.50 (165.10)	377-1683-ND	85.20	71.00	NFL-6632
11.90 (302.26)	13.78 (350.01)	6.50 (165.10)	377-1684-ND	109.40	91.17	NFL-6633
13.90 (353.06)	15.78 (400.81)	6.50 (165.10)	377-1685-ND	123.60	103.00	NFL-6634

(*Continued*)

NEMA / Watertight Polycarbonate Enclosures *(Cont.)*

Dimensions in Inch (mm)

Fig. 7 — Die Cast Aluminum NEMA Boxes with or without Mounting Flanges

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings

- ADC-10 aluminum alloy
- Tested and listed to UL-508 Type 4X requirements (UL File #E194432)
- Heavy duty .09" thick external wall mounting bracket
- Mounts to wall or panel with #10 size screws (not included)

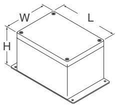

Fig. 8 — NEMA 4X Die Cast Aluminum EFI/RFI Boxes

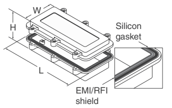

Fig. 9 — NEMA Sheet Metal Boxes with Mounting Flanges

Meets NEMA 1, 2, 4, 4X, 12, 13, IP65 and UL508-4X Ratings

- Durable 14 gauge steel
- Hinged cover

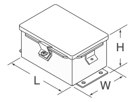

Fig. 10 — Sheet Metal NEMA Boxes

Meets NEMA 1, 2, 4, 4X, 12, 13, IP65 and UL508-4X Ratings

- Continuous seam welded 16AWG steel construction
- Cover closes securely with unique key provided

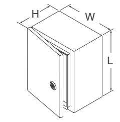

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 7 — NEMA Sealed Die-Cast Boxes							
Natural	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1099-ND§	6.30	5.27	AN-1300
Natural	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1100-ND	6.50	5.42	AN-1301
Natural	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1101-ND	9.40	7.84	AN-1302
Natural	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1102-ND	11.40	9.52	AN-1303
Natural	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1103-ND	13.40	11.19	AN-1304
Natural	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1104-ND§	24.00	20.00	AN-1305
Natural	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1105-ND§	24.40	20.36	AN-1306
Natural	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1106-ND	25.80	21.52	AN-1307
Gray	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1190-ND	15.20	12.67	AN-1302-G
Gray	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1191-ND	17.80	14.84	AN-1303-G
Gray	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1192-ND	21.40	17.84	AN-1304-G
Gray	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1193-ND	34.40	28.67	AN-1305-G
Gray	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1194-ND	34.80	29.02	AN-1306-G
Gray	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1195-ND	37.40	31.19	AN-1307-G
Fig. 7 — NEMA Die-Cast Aluminum Boxes with Mounting Flanges							
Natural	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1426-ND	15.40	12.86	AN-2800
Black	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1427-ND	16.20	13.48	AN-2800-B
Natural	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1428-ND	15.80	13.15	AN-2801
Black	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1429-ND	16.80	14.00	AN-2801-B
Natural	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1430-ND	19.80	16.50	AN-2802
Black	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1431-ND	21.70	18.07	AN-2802-B
Natural	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1432-ND	22.70	18.94	AN-2803
Black	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1433-ND	24.40	20.34	AN-2803-B
Natural	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1434-ND	24.60	20.48	AN-2804
Black	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1435-ND	27.40	22.82	AN-2804-B
Natural	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1436-ND	38.80	32.34	AN-2805
Black	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1437-ND	43.10	35.92	AN-2805-B
Natural	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1438-ND	40.00	33.34	AN-2806
Black	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1439-ND	43.90	36.61	AN-2806-B
Natural	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1440-ND	43.20	36.03	AN-2807
Black	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1441-ND	50.90	42.40	AN-2807-B
Natural	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1442-ND	49.30	41.11	AN-2808
Black	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1443-ND	57.20	47.67	AN-2808-B
Natural	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1444-ND	43.10	35.92	AN-2809
Black	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1445-ND	46.80	38.98	AN-2809-B
Natural	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1446-ND	48.40	40.34	AN-2810
Black	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1447-ND	53.60	44.65	AN-2810-B
Natural	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1448-ND	15.00	12.53	AN-2811
Black	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1449-ND	15.70	13.11	AN-2811-B
Natural	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1450-ND	19.30	16.11	AN-2812
Black	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1451-ND	20.70	17.28	AN-2812-B
Natural	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1452-ND	23.30	19.44	AN-2813
Black	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1453-ND	26.30	21.92	AN-2813-B
Natural	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1454-ND	25.70	21.40	AN-2814
Black	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1455-ND	29.00	24.19	AN-2814-B
Natural	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1456-ND	25.00	20.86	AN-2815
Black	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1457-ND	27.00	22.48	AN-2815-B
Natural	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1458-ND	38.30	31.94	AN-2816
Black	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1459-ND	42.50	35.44	AN-2816-B
Natural	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1460-ND	41.10	34.25	AN-2817
Black	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1461-ND	45.40	37.84	AN-2817-B
Natural	2.19 (55.63)	1.61 (40.89)	1.22 (30.99)	377-1743-ND✔	12.50	—	AN-2818
Black	2.19 (55.63)	1.61 (40.89)	1.22 (30.99)	377-1744-ND✔	17.10	—	AN-2818B
Natural	3.13 (79.50)	2.93 (74.42)	2.05 (52.07)	377-1745-ND✔	19.00	—	AN-2819
Black	3.13 (79.50)	2.93 (74.42)	2.05 (52.07)	377-1746-ND✔	26.30	—	AN-2819B
Natural	4.04 (102.62)	2.07 (52.58)	1.00 (25.40)	377-1747-ND✔	18.50	—	AN-2820
Black	4.04 (102.62)	2.07 (52.58)	1.00 (25.40)	377-1748-ND✔	25.80	—	AN-2820B
Natural	6.89 (175.01)	3.15 (80.01)	2.36 (59.94)	377-1749-ND✔	31.20	—	AN-2821
Black	6.89 (175.01)	3.15 (80.01)	2.36 (59.94)	377-1750-ND✔	40.30	—	AN-2821B
Natural	7.87 (199.90)	4.27 (108.46)	2.95 (74.93)	377-1751-ND✔	45.50	—	AN-2822
Black	7.87 (199.90)	4.27 (108.46)	2.95 (74.93)	377-1752-ND✔	55.50	—	AN-2822B
Natural	10.24 (260.10)	6.30 (160.02	3.56 (90.42)	377-1753-ND✔	54.30	—	AN-2823
Black	10.24 (260.10)	6.30 (160.02	3.56 (90.42)	377-1754-ND✔	68.70	—	AN-2823B
Natural	3.52 (89.41)	1.38 (35.05)	1.22 (30.99)	377-1526-ND	7.00	5.85	CN-6702
Natural	4.51 (114.55)	2.50 (63.50)	1.22 (30.99)	377-1527-ND	11.10	9.25	CN-6703
Natural	4.51 (114.55)	2.50 (63.50)	2.22 (56.39)	377-1528-ND	13.10	10.95	CN-6704
Natural	4.54 (115.32)	3.57 (90.68)	2.22 (56.39)	377-1529-ND	14.90	12.45	CN-6705
Natural	4.73 (120.14)	3.95 (100.33)	1.44 (36.58)	377-1530-ND	14.90	12.45	CN-6706
Natural	5.47 (138.94)	4.01 (101.85)	3.05 (77.47)	377-1531-ND	19.80	16.50	CN-6707
Natural	6.51 (165.35)	5.01 (127.25)	3.05 (77.47)	377-1532-ND	24.80	20.70	CN-6708
Natural	6.78 (172.21)	4.77 (121.16)	2.22 (56.39)	377-1533-ND	23.10	19.30	CN-6709
Natural	6.78 (172.21)	4.77 (121.16)	4.21 (106.93)	377-1534-ND	27.80	23.20	CN-6710
Natural	8.75 (222.25)	5.74 (145.80)	2.25 (57.15)	377-1535-ND	31.20	26.05	CN-6711
Fig. 7 — NEMA Die-Cast Aluminum Boxes							
Natural	2.19 (55.63)	1.61 (40.89)	1.22 (30.99)	377-1737-ND✔	7.10	—	AN-1318
Natural	3.13 (79.50)	2.93 (74.42)	2.05 (52.07)	377-1738-ND✔	11.90	—	AN-1319
Natural	4.04 (102.62)	2.07 (52.58)	1.00 (25.40)	377-1739-ND✔	8.00	—	AN-1320
Natural	6.89 (175.01)	3.15 (80.01)	2.36 (59.94)	377-1740-ND✔	22.60	—	AN-1321
Natural	7.87 (199.90)	4.27 (108.46)	2.95 (74.93)	377-1741-ND✔	35.90	—	AN-1322
Natural	10.24 (260.10)	6.30 (160.02)	3.56 (90.42)	377-1742-ND✔	40.90	—	AN-1323
Natural	2.36 (59.94)	2.16 (54.86)	1.22 (30.99)	377-1511-ND	5.70	4.75	CN-5700
Natural	3.15 (80.01)	2.16 (54.86)	1.00 (25.40)	377-1512-ND	6.20	5.15	CN-5701
Natural	3.52 (89.41)	1.38 (35.05)	1.22 (30.99)	377-1513-ND	5.50	4.60	CN-5702
Natural	4.51 (114.55)	2.50 (63.50)	1.22 (30.99)	377-1514-ND	8.80	7.35	CN-5703
Natural	4.51 (114.55)	2.50 (63.50)	2.22 (56.39)	377-1515-ND	10.50	8.75	CN-5704
Natural	4.54 (115.32)	3.57 (90.68)	2.22 (56.39)	377-1516-ND	12.20	10.20	CN-5705
Natural	4.73 (120.14)	3.95 (100.33)	1.44 (36.58)	377-1517-ND	12.00	10.00	CN-5706
Natural	5.47 (138.94)	4.01 (101.85)	3.05 (77.47)	377-1518-ND	16.80	14.00	CN-5707
Natural	6.51 (165.35)	5.01 (127.25)	3.05 (77.47)	377-1519-ND	21.80	18.20	CN-5708
Natural	6.78 (172.21)	4.77 (121.16)	2.22 (56.39)	377-1520-ND	20.10	16.75	CN-5709
Natural	6.78 (172.21)	4.77 (121.16)	4.21 (106.93)	377-1521-ND	24.70	20.60	CN-5710
Natural	8.75 (222.25)	5.74 (145.80)	2.25 (57.15)	377-1522-ND	26.40	22.05	CN-5711
Natural	8.75 (222.25)	5.74 (145.80)	4.22 (107.19)	377-1523-ND	35.70	29.80	CN-5712
Natural	9.85 (250.19)	9.85 (250.19)	4.01 (101.85)	377-1524-ND	62.60	52.25	CN-5713
Natural	10.81 (274.57)	6.89 (175.01)	2.64 (67.06)	377-1525-ND	38.90	32.45	CN-5714

§ No wall mounting holes ✔ ***NEW!***

Die Cast Aluminum NEMA EMI / RFI Boxes and Mounting Brackets

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 8 — NEMA 4x Aluminum Boxes							
Natural	3.79 (96.27)	3.79 (96.27)	1.77 (44.96)	377-1586-ND	17.40	14.50	ANS-3801
Black	3.79 (96.27)	3.79 (96.27)	1.77 (44.96)	377-1587-ND	22.10	18.42	ANS-3801-B
Natural	3.79 (96.27)	3.79 (96.27)	2.64 (67.06)	377-1588-ND	18.60	15.50	ANS-3803
Black	3.79 (96.27)	3.79 (96.27)	2.64 (67.06)	377-1589-ND	23.90	19.92	ANS-3803-B
Natural	7.56 (192.02)	3.78 (96.01)	1.77 (44.96)	377-1590-ND	28.40	23.67	ANS-3805
Black	7.56 (192.02)	3.78 (96.01)	1.77 (44.96)	377-1591-ND	35.10	29.25	ANS-3805-B
Natural	7.56 (192.02)	3.78 (96.01)	2.64 (67.06)	377-1592-ND	30.80	25.67	ANS-3807
Black	7.56 (192.02)	3.78 (96.01)	2.64 (67.06)	377-1593-ND	38.80	32.34	ANS-3807-B
Natural	10.79 (274.07)	6.81 (172.97)	2.60 (66.04)	377-1594-ND	56.10	46.75	ANS-3809
Black	10.79 (274.07)	6.81 (172.97)	2.60 (66.04)	377-1595-ND	68.00	56.67	ANS-3809-B
Natural	10.79 (274.07)	6.81 (172.97)	3.94 (100.08)	377-1596-ND	62.80	52.34	ANS-3811
Black	10.79 (274.07)	6.81 (172.97)	3.94 (100.08)	377-1597-ND	76.00	63.34	ANS-3811-B
Natural	5.91 (150.11)	3.94 (100.08)	1.97 (50.04)	377-1598-ND	25.60	21.34	ANS-3813
Black	5.91 (150.11)	3.94 (100.08)	1.97 (50.04)	377-1599-ND	32.20	26.84	ANS-3813-B
Natural	5.91 (150.11)	3.94 (100.08)	2.95 (74.93)	377-1600-ND	30.30	25.25	ANS-3815
Natural	7.87 (199.90)	5.91 (150.11)	1.97 (50.04)	377-1602-ND	46.80	39.00	ANS-3817
Black	7.87 (199.90)	5.91 (150.11)	1.97 (50.04)	377-1603-ND	57.40	47.84	ANS-3817-B
Natural	7.87 (199.90)	5.91 (150.11)	2.95 (74.93)	377-1604-ND	51.80	43.17	ANS-3819
Black	7.87 (199.90)	5.91 (150.11)	2.95 (74.93)	377-1605-ND	63.70	53.09	ANS-3819-B
Die Cast Wall Mounting Bracket Kit, Natural				377-1606-ND	4.10	3.42	ANX-1390
Die Cast Wall Mounting Bracket Kit, Black				377-1607-ND	6.80	5.67	ANX-1390-B
Die Cast Wall Mounting Bracket Kit, Gray				377-1608-ND	6.80	5.67	ANX-1390-G

Steel NEMA Boxes

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 9 — NEMA Sheet Metal Boxes with Mounting Flanges							
Gray	6.00 (152.40)	4.00 (101.60)	3.25 (82.55)	377-1501-ND	45.90	38.39	SN-3700
	8.00 (203.20)	6.00 (152.40)	3.75 (95.25)	377-1502-ND	55.20	46.17	SN-3701
	6.00 (152.40)	6.00 (152.40)	4.25 (107.95)	377-1503-ND	50.70	42.41	SN-3702
	12.00 (304.80)	10.00 (254.00)	5.25 (133.35)	377-1504-ND	89.50	74.86	SN-3703
	10.00 (254.00)	8.00 (203.20)	6.25 (158.75)	377-1505-ND	84.80	70.93	SN-3704
	12.00 (304.80)	12.00 (304.80)	6.25 (158.75)	377-1506-ND	104.60	87.49	SN-3705
	14.00 (355.60)	12.00 (304.80)	6.25 (158.75)	377-1507-ND	114.10	95.43	SN-3706
	16.00 (406.40)	14.00 (355.60)	6.25 (158.75)	377-1508-ND	136.30	114.00	SN-3707
	14.00 (355.60)	12.00 (304.80)	8.25 (209.55)	377-1509-ND	130.00	108.73	SN-3708
	16.00 (406.40)	14.00 (355.60)	10.25 (260.35)	377-1510-ND	168.00	140.51	SN-3709

Sheet Metal NEMA Boxes

Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 10 — Sheet Metal NEMA Boxes						
9.84 (249.94)	7.87 (199.90)	5.91 (150.11)	377-1573-ND	49.60	41.35	SNB-3730
9.84 (249.94)	7.87 (199.90)	5.91 (150.11)	377-1794-ND‡‡ ***NEW!***	195.30	—	SNB-3730SS
11.81 (299.97)	9.84 (249.94)	5.91 (150.11)	377-1574-ND	55.10	45.90	SNB-3731
11.81 (299.97)	9.84 (249.94)	5.91 (150.11)	377-1795-ND‡‡ ***NEW!***	254.20	—	SNB-3731SS
11.81 (299.97)	9.84 (249.94)	7.87 (199.90)	377-1575-ND	58.00	48.35	SNB-3732
11.81 (299.97)	9.84 (249.94)	7.87 (199.90)	377-1796-ND‡‡ ***NEW!***	287.90	—	SNB-3732SS
11.81 (299.97)	11.81 (299.97)	5.91 (150.11)	377-1576-ND	60.60	50.50	SNB-3733
11.81 (299.97)	11.81 (299.97)	5.91 (150.11)	377-1797-ND‡‡ ***NEW!***	286.00	—	SNB-3733SS
11.81 (299.97)	11.81 (299.97)	7.87 (199.90)	377-1577-ND	65.40	54.50	SNB-3734
11.81 (299.97)	11.81 (299.97)	7.87 (199.90)	377-1798-ND‡‡ ***NEW!***	319.70	—	SNB-3734SS
15.75 (400.05)	11.81 (299.97)	5.91 (150.11)	377-1578-ND	68.60	57.15	SNB-3735
15.75 (400.05)	11.81 (299.97)	5.91 (150.11)	377-1799-ND‡‡ ***NEW!***	345.80	—	SNB-3735SS
15.75 (400.05)	11.81 (299.97)	7.87 (199.90)	377-1579-ND	72.80	60.65	SNB-3736
15.75 (400.05)	11.81 (299.97)	7.87 (199.90)	377-1800-ND‡‡ ***NEW!***	381.30	—	SNB-3736SS
15.75 (400.05)	15.75 (400.05)	7.87 (199.90)	377-1580-ND	86.20	71.85	SNB-3737
15.75 (400.05)	15.75 (400.05)	7.87 (199.90)	377-1801-ND‡‡ ***NEW!***	464.50	—	SNB-3737SS
7.87 (199.90)	5.91 (150.11)	5.91 (150.11)	377-1728-ND ***NEW!***	47.50	39.59	SNB-3738
7.87 (199.90)	5.91 (150.11)	5.91 (199.90)	377-1802-ND‡‡ ***NEW!***	143.00	—	SNB-3738SS
7.87 (199.90)	7.87 (199.90)	3.98 (101.09)	377-1729-ND ***NEW!***	49.80	41.50	SNB-3739
7.87 (199.90)	7.87 (199.90)	3.98 (101.09)	377-1803-ND‡‡ ***NEW!***	141.10	—	SNB-3739SS
9.84 (249.94)	9.84 (249.94)	5.91 (150.11)	377-1730-ND ***NEW!***	69.80	58.17	SNB-3740
9.84 (249.94)	9.84 (249.94)	5.91 (150.11)	377-1804-ND‡‡ ***NEW!***	217.80	—	SNB-3740SS
9.84 (249.94)	7.87 (199.90)	3.98 (101.09)	377-1731-ND ***NEW!***	56.20	46.84	SNB-3741
9.84 (249.94)	7.87 (199.90)	3.98 (101.09)	377-1805-ND‡‡ ***NEW!***	168.20	—	SNB-3741SS
15.75 (400.05)	13.98 (355.09)	7.87 (199.90)	377-1733-ND ***NEW!***	118.30	98.59	SNB-3743
15.75 (400.05)	13.98 (355.09)	7.87 (355.09)	377-1806-ND‡‡ ***NEW!***	422.50	—	SNB-3743SS

‡‡ Stainless Steel

(Continued)

Dimensions in Inch (mm)

Fig. 11 — Sheet Metal NEMA Boxes

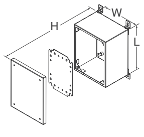

Fig. 12 — NEMA Heavy Duty Plastic Boxes *NEW!*

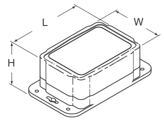

Fig. 13 — Pole Mount Brackets *NEW!*

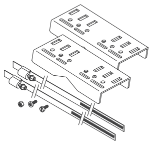

Fig. 14 — Plasticases

PC-11402 – PC-11416, PC-11475 – P11478: • Impact resistant polystyrene • UL94-HB flammability rating • Molded-in card guides and mounting bosses • Double-textured PC bone gray **PC-11438:** • Black ABS covers • UL94-HB flammability rating • Clear anodized aluminum front and rear panels • Internal steel channels provide extra strength and ease of assembly • Formed guide tabs accept vertical or horizontal circuit boards **PC-11482-A:** • Dark gray ABS covers with natural finish aluminum end panels • UL94V-0 flammability rating • Suggested service temperature -40°C ~ 80°C **PC-11640 – PC-11645:** • Flame retardant black ABS plastic • UL94V-0 flammability rating **CU Series:** • UL94V-0 • Suggested service temperature -20°C ~ 70°C

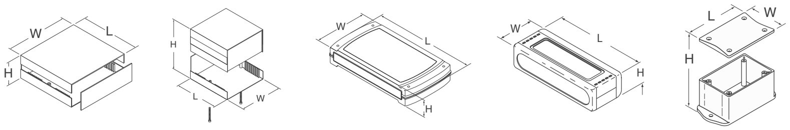
Style 1 **Style 2** **Style H** **Style I *NEW!*** **Style L *NEW!***

Fig. 15 — ABS Plastic Utiliboxes

- Aluminum or plastic cover

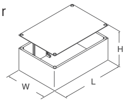

Fig. 16 — Plastiboxes — Style G

- ABS plastic • UL94-HB flammability rating
- Suggested service temperature -40°C ~ 60°C

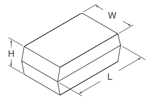

Fig. 17 — Plastiboxes — Style H *NEW!*

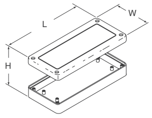

Fig. 18 — Plastiboxes — Style J

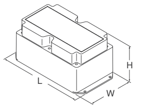

Fig. 19 — Plastiboxes — Style K *NEW!*

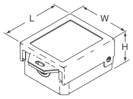

Fig. 20 — Plastiboxes — Style L *NEW!*

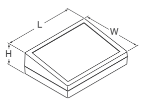

Fig. 21 — Plastiboxes — Style M *NEW!*

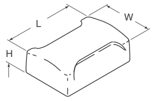

Fig. 22 — Din Rail Mount Plastibox

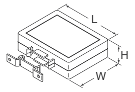

Fig. 23 — Hand-Held Plastic Style 1 *NEW!*

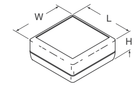

Fig. 24 — Hand-Held Plastic Style 2 *NEW!*

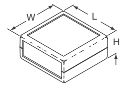

Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
L	W	H		1	10	
Fig. 11 — Sheet Metal NEMA Boxes with Lift-Off Screw Cover						
7.87 (199.90)	5.91 (150.11)	9.84 (249.94)	377-1616-ND	59.40	49.50	SNC-3750
9.84 (249.94)	5.91 (150.11)	11.81 (299.97)	377-1617-ND	64.20	53.50	SNC-3751
9.84 (249.94)	7.87 (199.90)	11.81 (299.97)	377-1618-ND	67.10	55.92	SNC-3752
11.81 (299.97)	5.91 (150.11)	11.81 (299.97)	377-1619-ND	69.50	57.92	SNC-3753
11.81 (299.97)	7.87 (199.90)	11.81 (299.97)	377-1620-ND	73.90	61.59	SNC-3754
11.81 (299.97)	5.91 (150.11)	15.75 (400.05)	377-1621-ND	77.30	64.42	SNC-3755
11.81 (299.97)	7.87 (199.90)	15.75 (400.05)	377-1622-ND	81.00	67.50	SNC-3756
15.75 (400.05)	7.87 (199.90)	15.75 (400.05)	377-1623-ND	100.50	83.75	SNC-3757
NEW! Fig. 12 — NEMA Heavy Duty Plastic Boxes NEW!						
6.62 (168.15)	4.68 (118.87)	2.37 (60.20)	377-1634-ND	20.30	16.92	HD-7600
5.50 (139.70)	3.50 (88.90)	1.62 (41.15)	377-1760-ND	19.80	—	HD-7601

NEW! NEMA Accessories

Description	Digi-Key Part No.	Price Each		Bud Ind. Part No.
		1	10	
Fig. 13 — Pole Mount Brackets				
For use with Bud NEMA Boxes	377-1632-ND	76.50	63.75	BPM-22260
For use with Bud NEMA Boxes	377-1633-ND	109.00	90.84	BPM-22261

Plastic Enclosures

Style	Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
		L	W	H		1	10	
Fig. 14 — Plasticases								
1	Gray	5.30 (134.62)	5.08 (129.03)	1.53 (38.86)	377-1149-ND	14.60	12.19	PC-11402
	Gray	6.32 (160.53)	8.10 (205.74)	2.52 (64.01)	377-1150-ND	22.40	18.67	PC-11408
	Gray	7.09 (180.09)	10.24 (260.10)	2.56 (65.02)	377-1156-ND	32.80	27.35	PC-11482-A
2	Gray	6.32 (160.53)	6.12 (155.49)	3.30 (83.82)	377-1151-ND	23.10	19.25	PC-11410
	Gray	6.32 (160.53)	8.10 (205.74)	3.30 (83.82)	377-1152-ND	26.70	22.31	PC-11412
	Gray	6.32 (160.53)	6.12 (155.49)	4.04 (102.62)	377-1153-ND	24.30	20.29	PC-11414
	Gray	6.32 (160.53)	8.10 (205.74)	4.04 (102.62)	377-1154-ND	28.40	23.73	PC-11416
H	Black	9.18 (233.17)	5.25 (133.35)	1.68 (42.67)	377-1570-ND	13.30	11.10	PC-11640
	Black	9.18 (233.17)	5.25 (133.35)	2.36 (59.94)	377-1571-ND	13.70	11.45	PC-11645
I	Gray	4.13 (104.90)	1.61(40.89)	1.00 (25.4)	377-1698-ND ***NEW!***	3.90	3.25	PC-11475
	Gray	5.12 (130.05)	3.00 (76.2)	1.18 (29.97)	377-1699-ND ***NEW!***	5.10	4.25	PC-11476
	Gray	6.10 (154.94)	3.62 (91.95)	1.16 (29.46)	377-1700-ND ***NEW!***	5.80	4.84	PC-11477
	Gray	7.87 (199.90)	4.76 (120.90)	1.57 (39.88)	377-1701-ND ***NEW!***	7.00	5.84	PC-11478
L	Black	3.12 (79.25)	2.10 (53.34)	1.08 (27.43)	377-1755-ND ***NEW!***	4.20	—	CU-1931MB
	Black	3.12 (79.25)	2.13 (54.10)	1.58 (40.13)	377-1756-ND ***NEW!***	4.40	—	CU-1933MB
	Black	3.11 (78.99)	3.10 (78.74)	0.95 (24.13)	377-1757-ND ***NEW!***	6.10	—	CU-1935MB
	Black	3.11 (78.99)	3.13 (79.50)	1.56 (39.62)	377-1758-ND ***NEW!***	6.10	—	CU-1937MB
Fig. 15 — ABS Plastic Utiliboxes								
—	Black	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1165-ND	3.00	2.50	CU-1874-B
	Gray	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1166-ND	3.00	2.50	CU-1874-G
	Black	4.10 (104.14)	2.23 (57.40)	2.00 (50.80)	377-1167-ND	4.30	3.57	CU-793
	Black	5.59 (141.99)	4.34 (110.27)	1.84 (46.77)	377-1168-ND	7.20	6.00	CU-387
	Black	4.31 (109.47)	3.06 (77.72)	1.46 (37.08)	377-1169-ND	5.80	4.85	CU-388
	Black	4.60 (116.84)	3.10 (78.74)	1.87 (47.50)	377-1216-ND	7.20	6.00	CU-3281
	Black	4.60 (116.84)	4.60 (116.84)	2.37 (60.20)	377-1217-ND	8.00	6.69	CU-3282
	Black	6.10 (154.94)	4.60 (116.84)	2.37 (60.20)	377-1218-ND	9.20	7.70	CU-3283
—	Black	7.60 (193.04)	4.60 (116.84)	2.37 (60.20)	377-1219-ND	11.10	9.27	CU-3284
	Black	5.07 (128.78)	3.57 (90.68)	1.59 (40.39)	377-1220-ND	6.70	5.60	CU-389
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1536-ND	10.00	8.35	CU-3287
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1537-ND	10.00	8.35	CU-3287-MB
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1538-ND	10.00	7.81	CUR-3287
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1539-ND	10.70	8.90	CUR-3287-C
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1540-ND	10.70	8.94	CUR-3287-MB
	Black	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1541-ND	10.00	8.32	CUR-3287-CMB
Fig. 16 — Plastiboxes — Style G								
G	Gray	3.62 (91.95)	2.25 (57.15)	1.50 (38.10)	377-1161-ND	6.70	5.59	PT-11308-G
	Gray	5.62 (142.75)	3.25 (82.55)	1.50 (38.10)	377-1157-ND	12.20	10.19	PBS-11327-G
	Gray	5.62 (142.75)	3.25 (82.55)	2.48 (62.99)	377-1162-ND	11.30	9.46	PT-11388-G
	Gray	4.37 (111)	3.25 (82.55)	1.52 (38.61)	377-1158-ND	5.20	4.34	PBS-11532-G
	Gray	5.62 (142.75)	3.25 (82.55)	1.52 (38.61)	377-1159-ND	5.50	4.60	PS-11543-G
	Gray	6.87 (174.50)	4.87 (123.70)	1.52 (38.61)	377-1160-ND	6.80	5.65	PS-11553-G
	Gray	6.87 (174.50)	4.87 (123.70)	2.52 (64.01)	377-1163-ND	7.20	6.00	PT-11557-G
NEW! Fig. 17 — Plastiboxes — Style H NEW!								
H	Black	6.5 (165.1)	2.88 (73.15)	1.13 (28.70)	377-1713-ND▲	7.20	6.00	PT-11670-MB
	Black	6.5 (165.1)	2.88 (73.15)	1.13 (28.70)	377-1714-ND	7.20	6.00	PT-11670
Fig. 18 — Plastiboxes — Style J								
J	Black	8.25 (209.55)	5.00 (127)	3.00 (76.2)	377-1614-ND	21.30	17.75	PT-11800
	Black	8.25 (209.55)	5.00 (127)	4.33 (109.98)	377-1615-ND	22.40	18.67	PT-11801
NEW! Fig. 19 — Plastiboxes — Style K NEW!								
K	Black	3.58 (90.93)	3.11 (78.99)	1.77 (44.96)	377-1724-ND	5.20	4.34	PTH-11810-B
	Gray	3.58 (90.93)	3.11 (78.99)	1.77 (44.96)	377-1725-ND	5.20	4.34	PTH-11810-G
	Black	3.58 (90.93)	4.80 (121.92)	2.717 (69.00)	377-1726-ND	7.60	6.34	PTH-11811-B
	Gray	3.58 (90.93)	4.80 (121.92)	2.717 (69.00)	377-1727-ND	7.60	6.34	PTH-11811-G
NEW! Fig. 20 — Plastiboxes — Style L NEW!								
L	Gray	7.40 (187.96)	5.24 (133.1)	2.22 (56.39)	377-1715-ND	12.50	10.42	PT-11820
NEW! Fig. 21 — Plastiboxes — Style M NEW!								
M	Black	3.08 (78.23)	2.08 (52.83)	1.00 (25.4)	377-1716-ND	3.70	3.09	PT-11850-PMB
	Black	3.08 (78.23)	2.08 (52.83)	1.00 (25.4)	377-1717-ND	3.70	3.09	PT-11850-PXX
	Black	3.08 (78.23)	2.08 (52.83)	1.59 (40.39)	377-1718-ND▲	4.90	4.09	PT-11851-FMB
	Black	3.08 (78.23)	2.08 (52.83)	1.59 (40.39)	377-1719-ND	4.90	4.09	PT-11851-PMB
	Black	4.11 (104.39)	2.23 (56.64)	1.00 (25.4)	377-1720-ND	4.20	3.50	PT-11852-PMB
	Black	4.11 (104.39)	2.23 (56.64)	1.00 (25.4)	377-1721-ND	4.20	3.50	PT-11852-PXX
	Black	4.11 (104.39)	2.23 (56.64)	1.59 (40.39)	377-1722-ND▲	5.70	4.75	PT-11853-FMB
	Black	4.11 (104.39)	2.23 (56.64)	1.59 (40.39)	377-1723-ND	5.70	4.75	PT-11853-PMB
Fig. 22 — Din Rail Mount Plastibox								
—	Black	4.50 (114.3)	3.50 (88.9)	1.25 (31.75)	377-1609-ND	8.90	7.42	DPB-4760
NEW! Fig. 23 — Hand-Held Plastic — Style 1 NEW!								
1	Black	2.62 (66.55)	2.60 (66.04)	1.10 (27.94)	377-1649-ND	1.90	1.59	HP-3649-B
NEW! Fig. 24 — Hand-Held Plastic — Style 2 NEW!								
2	Black	2.62 (66.55)	2.60 (66.04)	1.10 (27.94)	377-1650-ND	2.40	2.00	HP-3650-B
	Black	3.62 (91.95)	2.60 (66.04)	1.10 (27.94)	377-1651-ND	2.90	2.42	HP-3651-B
	Black	4.38 (111.25)	2.95 (74.93)	.99 (25.15)	377-1652-ND†	3.20	2.67	HP-3652-B
	Black	4.49 (114.05)	1.41 (35.81)	1.02 (25.91)	377-1653-ND	3.30	2.75	HP-3653-B
	Black	5.51 (139.95)	2.60 (66.04)	1.10 (27.94)	377-1654-ND	3.60	3.00	HP-3654-B
NEW! Fig. 25 — Hand-Held Plastic — Style 3 NEW!								
3	Black	3.62 (91.95)	2.60 (66.04)	.83 (21.08)	377-1655-ND§	3.10	2.59	HP-3660-B
	Black	3.62 (91.95)	2.60 (66.04)	1.10 (27.94)	377-1656-ND	3.40	2.84	HP-3661-B
	Black	4.41 (112.01)	2.60 (66.04)	.83 (21.08)	377-1657-ND§	3.30	2.75	HP-3662-B
	Black	4.41 (112.01)	2.60 (66.04)	1.10 (27.94)	377-1658-ND	3.50	2.92	HP-3663-B
	Black	5.51 (139.95)	2.60 (66.04)	1.10 (27.94)	377-1659-ND	3.90	3.25	HP-3664-B

‡ With Battery Compartment (BC) † Specifically designed for smart card readers § Low profile design only allows for two AAA batteries ▲ With External Mounting Bracket

(*Continued*)

Dimensions in Inch (mm)

Fig. 25 — Hand-Held Plastic Style 3 *NEW!*

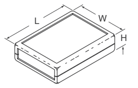

Fig. 26 — Grabber — Style O

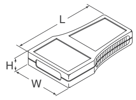

Fig. 27 — Hand-Held Grabber Enclosures — Style B

- ABS plastic in a light gray finish
- UL94V-0 flammability rating

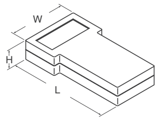

Fig. 28 — Rubber Boots for Hand-Held Grabber Enclosures — Style K *NEW!*

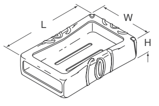

Fig. 29 — Hand-Held Grabber Enclosures — Style P *NEW!*

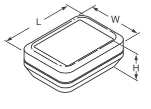

Fig. 30 — Hand-Held Grabber Enclosures — Style Q *NEW!*

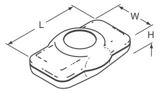

Fig. 31 — Accessories

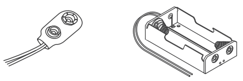

Battery Clip

Battery Holder

Fig. 32 — Potting Boxes

- ABS thermoplastic
- UL94V-0 flammability rating
- Suggested service temperature -20°C ~ 70°C
- Optional close-fitting covers available in all sizes
- Top Feet (TF) and Bottom Feet (BF) available

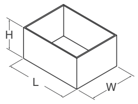

Fig. 33 — Power Plug Boxes *NEW!*

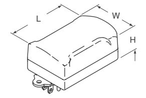

Fig. 34 — USB Enclosure *NEW!*

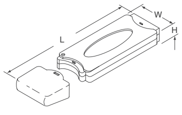

Fig. 35 — Mini Boxes

- 04” aluminum alloy
- Two sections slip together and may be joined by either built-in snap lock or sheet metal screws (included)

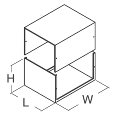

Fig. 36 — Aluminum Chassis

- Welded at stress points for assured, maximum strength and rigidity
- Sides folded in at bottom for additional support
- Bottom plate easily attached
- Natural finish

NOTE: Bottom plate sold separately.

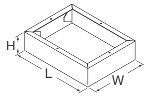

Style	Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
NEW! IR Panel for HP Series NEW!								
Fits HP-3650, HP-3651, HP-3661, HP-3663 and HP3664					377-1645-ND	.40	.34	HP-3645
Fits HP-3660 and HP-3662					377-1646-ND	.40	.34	HP-3646
Fits HP-3652					377-1647-ND	.40	.34	HP-3647
Fits HP-3653					377-1648-ND	.30	.25	HP-3648
Fig. 26 — Grabber Enclosures								
O	Black	6.28 (159.51)	3.69 (93.72)	.90 (22.86)	377-1610-ND	9.80	8.17	HH-3510-B
	Black	6.28 (159.51)	3.69 (93.72)	.90 (22.86)	377-1611-ND‡	10.50	8.75	HH-3510-BCB
	Gray	6.28 (159.51)	3.69 (93.72)	.90 (22.86)	377-1612-ND‡	10.50	8.75	HH-3510-BCG
	Gray	6.28 (159.51)	3.69 (93.72)	.90 (22.86)	377-1613-ND	9.80	8.17	HH-3510-G
Fig. 27 — Hand-Held Grabber Enclosures								
B	Gray	9.33 (236.98)	5.16 (131.06)	1.71 (43.43)	377-1170-ND	19.00	15.85	HH-3420
NEW! Fig. 28 — Rubber Boots for Hand-Held Grabber Enclosures — Style K NEW!								
K	Black	4.63 (117.6)	2.85 (72.39)	1.00 (25.4)	377-1635-ND	9.10	7.59	HH-3529-BBK
	Blue	4.63 (117.6)	2.85 (72.39)	1.00 (25.4)	377-1636-ND	9.10	7.59	HH-3529-BBL
	Red	4.63 (117.6)	2.85 (72.39)	1.00 (25.4)	377-1637-ND	9.10	7.59	HH-3529-BRD
	Black	5.50 (139.7)	3.25 (82.55)	1.00 (25.4)	377-1638-ND	10.00	8.34	HH-3539-BBK
	Blue	5.50 (139.7)	3.25 (82.55)	1.00 (25.4)	377-1639-ND	10.00	8.34	HH-3539-BBL
	Red	5.50 (139.7)	3.25 (82.55)	1.00 (25.4)	377-1640-ND	10.00	8.34	HH-3539-BRD
NEW! Fig. 29 — Hand-Held Grabber Enclosures — Style P NEW!								
P	Black	2.74 (69.60)	1.97 (50.04)	.83 (21.08)	377-1642-ND	2.70	2.25	HH-3641
	Black	3.47 (88.14)	2.48 (62.99)	1.08 (27.43)	377-1643-ND	4.40	3.67	HH-3642
	Black	4.53 (115.06)	3.27 (83.06)	1.26 (32.00)	377-1644-ND	5.30	4.42	HH-3643
NEW! Fig. 30 — Hand-Held Grabber Enclosures — Style Q NEW!								
Q	Black	3.03 (76.96)	1.93 (49.02)	1.05 (26.67)	377-1641-ND	2.40	2.00	HH-3640
Accessories for Hand-Held Grabber Enclosures								
Tilt Stand for HH-3420					377-1171-ND	.90	.75	HH-3440-TS
Fig. 31 — Accessories								
Battery Clip, 1 ~ 9V Cell					377-1549-ND	1.20	1.00	HH-3449
Battery Holder, 2-AAA Cells					377-1557-ND	1.70	1.42	HH-3630
Battery Holder, 4-AAA Cells					377-1558-ND	2.90	2.42	HH-3631
Battery Holder, 2-AA Cells					377-1559-ND	1.70	1.42	HH-3632
Battery Holder, 4-AA Cells					377-1560-ND	2.90	2.42	HH-3633
Fig. 32 — Potting Boxes								
—	Black	2.00 (50.8)	1.50 (38.1)	1.00 (25.4)	377-1173-ND	1.22	1.02	PB-1558
	Black	3.00 (76.2)	2.00 (50.8)	1.50 (38.1)	377-1176-ND	1.77	1.48	PB-1559
	Black	.79 (20.1)	.79 (20.1)	.51 (12.95)	377-1686-ND ***NEW!***	.37	.31	PB-1560
	Black	1.97 (50.04)	.52 (13.21)	.59 (14.99)	377-1688-ND ***NEW!***	.45	.38	PB-1561
	Black	.97 (24.64)	.97 (24.64)	.97 (24.64)	377-1690-ND ***NEW!***	.37	.31	PB-1562
	Black	1.57 (39.88)	1.57 (39.88)	.78 (19.81)	377-1692-ND ***NEW!***	.45	.38	PB-1563
	Black	1.80 (45.72)	1.20 (30.48)	.63 (16.00)	377-1694-ND ***NEW!***	.45	.38	PB-1564
	Black	2.72 (69.1)	1.90 (48.26)	1.37 (34.80)	377-1696-ND ***NEW!***	.58	.48	PB-1565
	Black	1.00 (25.4)	1.00 (25.4)	.75 (19.05)	377-1180-ND	.71	.59	PB-1577
	Black	2.00 (50.8)	1.50 (38.1)	1.00 (25.4)	377-1175-ND	1.33	1.11	PB-1558-TF
	Black	3.00 (76.2)	2.00 (50.8)	1.50 (38.1)	377-1178-ND	1.91	1.60	PB-1559-TF
	Black	3.00 (76.2)	3.00 (76.2)	1.50 (38.1)	377-1179-ND	1.92	1.61	PB-1576-TF
	Black	2.00 (50.8)	1.50 (38.1)	1.00 (25.4)	377-1174-ND	1.33	1.11	PB-1558-BF
	Black	3.00 (76.2)	2.00 (50.8)	1.50 (38.1)	377-1177-ND	1.91	1.60	PB-1559-BF
Optional Close-Fitting Covers								
Cover for PB-1558-BF					377-1181-ND	.70	.59	PBC-1558-C
Cover for PB-1558/1558-TF					377-1182-ND	.70	.59	PBC-1558-CN
Cover for PB-1559-BF					377-1183-ND	.82	.69	PBC-1559-C
Cover for PB-1559/1559-TF					377-1184-ND	.80	.67	PBC-1575-C
Cover for PB-1576-TF					377-1185-ND	1.04	.87	PBC-1576-C
Cover for PB-1577					377-1186-ND	.42	.36	PBC-1577-C
Cover for PB-1560					377-1687-ND ***NEW!***	.25	.21	PBC-1560-C
Cover for PB-1561					377-1689-ND ***NEW!***	.25	.21	PBC-1561-C
Cover for PB-1562					377-1691-ND ***NEW!***	.25	.21	PBC-1562-C
Cover for PB-1563					377-1693-ND ***NEW!***	.37	.31	PBC-1563-C
Cover for PB-1564					377-1695-ND ***NEW!***	.37	.31	PBC-1564-C
Cover for PB-1565					377-1697-ND ***NEW!***	.37	.31	PBC-1565-C
NEW! Fig. 33 — Power Plug Boxes NEW!								
—	Black	3.08 (78.23)	2.08 (52.83)	1.65 (41.91)	377-1709-ND	7.90	6.59	PPB-11860-BK
	White	3.08 (78.23)	2.08 (52.83)	1.65 (41.91)	377-1710-ND	9.00	7.50	PPB-11860-WT
	Black	4.11 (104.39)	2.23 (56.64)	1.65 (41.91)	377-1711-ND	8.00	6.67	PPB-11861-BK
	White	4.11 (104.39)	2.23 (56.64)	1.65 (41.91)	377-1712-ND	10.20	8.50	PPB-11861-WT
NEW! Fig. 34 — USB Enclosure NEW!								
—	Clear	2.80 (71.12)	.91 (23.11)	.34 (8.64)	377-1735-ND	2.10	1.75	USB-7201-C
	Gray	2.80 (71.12)	.91 (23.11)	.34 (8.64)	377-1736-ND	1.80	1.50	USB-7201-G

‡ With Battery Compartment (BC) † Specifically designed for smart card readers § Low profile design only allows for two AAA batteries ▲ With External Mounting Bracket

Metal Boxes

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 35 — Mini Boxes							
Gray	2.12 (53.85)	2.75 (69.85)	1.62 (41.15)	377-1076-ND	7.00	5.80	CU-2100-B
	2.12 (53.85)	3.25 (82.55)	1.62 (41.15)	377-1077-ND	7.70	6.40	CU-2101-B
	2.12 (53.85)	4.00 (101.6)	1.62 (41.15)	377-1078-ND	8.00	6.65	CU-2102-B
	2.25 (57.15)	4.00 (101.6)	2.25 (57.15)	377-1079-ND	8.30	6.94	CU-2103-B
	4.00 (101.6)	5.00 (127)	3.00 (76.2)	377-1080-ND	12.20	10.19	CU-2105-B
	3.00 (76.2)	5.25 (133.35)	2.12 (53.85)	377-1081-ND	10.80	8.91	CU-2106-B
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1082-ND	18.70	15.69	CU-2107-B
	5.00 (127)	7.00 (177.8)	3.00 (76.2)	377-1083-ND	18.00	15.06	CU-2108-B
	6.00 (152.4)	8.00 (203.2)	3.50 (88.9)	377-1084-ND	28.20	23.58	CU-2109-B
	6.00 (152.4)	10.00 (254)	3.50 (88.9)	377-1085-ND	29.90	24.96	CU-2110-B
	7.00 (177.8)	12.00 (304.8)	4.00 (101.6)	377-1086-ND	39.60	33.11	CU-2111-B
Natural	2.12 (53.85)	2.75 (69.85)	1.62 (41.15)	377-1087-ND	5.10	4.27	CU-3000-A
	2.12 (53.85)	3.25 (82.55)	1.62 (41.15)	377-1088-ND	5.70	4.77	CU-3001-A
	2.12 (53.85)	4.00 (101.6)	1.62 (41.15)	377-1089-ND	6.30	5.25	CU-3002-A
	2.25 (57.15)	4.00 (101.6)	2.25 (57.15)	377-1090-ND	6.70	5.55	CU-3003-A
	2.25 (57.15)	5.00 (127)	2.25 (57.15)	377-1091-ND	8.00	6.69	CU-3004-A
	4.00 (101.6)	5.00 (127)	3.00 (76.2)	377-1092-ND	10.10	8.40	CU-3005-A
	3.00 (76.2)	5.25 (133.35)	2.12 (53.85)	377-1093-ND	8.10	6.68	CU-3006-A
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1094-ND	14.50	12.14	CU-3007-A
	5.00 (127)	7.00 (177.8)	3.00 (76.2)	377-1095-ND	13.10	10.96	CU-3008-A
	6.00 (152.4)	8.00 (203.2)	3.50 (88.9)	377-1096-ND	17.10	14.29	CU-3009-A
	6.00 (152.4)	10.00 (254)	3.50 (88.9)	377-1097-ND	21.60	18.02	CU-3010-A
	7.00 (177.8)	12.00 (304.8)	4.00 (101.6)	377-1098-ND	30.00	25.06	CU-3011-A

Aluminum Chassis

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 36 — Aluminum Chassis							
Natural	6.00 (152.4)	4.00 (100.4)	1.50 (38.1)	377-1000-ND	9.80	8.22	AC-1405
	8.00 (203.2)	6.00 (152.4)	2.00 (50.8)	377-1001-ND	12.50	10.40	AC-1413
	10.00 (254)	8.00 (203.2)	2.50 (63.5)	377-1002-ND	20.20	16.89	AC-1418
	12.00 (304.8)	8.00 (203.2)	2.50 (63.5)	377-1003-ND	25.00	20.86	AC-1419
	17.00 (431.8)	10.00 (254)	5.00 (127)	377-1004-ND	57.40	47.91	AC-1422
	17.00 (431.8)	13.00 (330.2)	5.00 (127)	377-1005-ND	66.20	55.28	AC-1426
	17.00 (431.8)	14.00 (355.6)	3.00 (76.2)	377-1006-ND	48.20	40.22	AC-1427
	17.00 (431.8)	15.00 (381)	4.00 (101.6)	377-1007-ND	65.40	54.59	AC-1428
	17.00 (431.8)	15.00 (381)	6.00 (152.4)	377-1008-ND	92.60	77.33	AC-1429
	17.00 (431.8)	17.00 (431.8)	3.00 (76.2)	377-1009-ND	56.10	46.86	AC-1430
	17.00 (431.8)	17.00 (431.8)	4.00 (101.6)	377-1010-ND	72.30	60.41	AC-1431
	7.00 (177.8)	5.00 (127)	2.00 (50.8)	377-1011-ND	10.90	9.07	AC-402
	9.50 (241.3)	5.00 (127)	2.00 (50.8)	377-1012-ND	13.20	10.95	AC-403
	10.00 (254)	5.00 (127)	3.00 (76.2)	377-1013-ND	16.80	14.02	AC-404
	7.00 (177.8)	7.00 (177.8)	2.00 (50.8)	377-1014-ND	11.40	9.42	AC-405
	9.00 (228.6)	7.00 (177.8)	2.00 (50.8)	377-1015-ND	13.80	11.49	AC-406
	11.00 (279.4)	7.00 (177.8)	2.00 (50.8)	377-1016-ND	16.00	13.32	AC-407
	12.00 (304.8)	7.00 (177.8)	3.00 (76.2)	377-1017-ND	21.20	17.69	AC-408
	13.00 (330.2)	7.00 (177.8)	2.00 (50.8)	377-1018-ND	17.40	14.57	AC-409
	15.00 (381)	7.00 (177.8)	3.00 (76.2)	377-1019-ND	27.60	23.04	AC-411
	17.00 (431.8)	8.00 (203.2)	3.00 (76.2)	377-1020-ND	28.70	24.03	AC-412

(Continued)

K

Aluminum Chassis *(Cont.)*

Dimensions in Inch (mm)

Fig. 37 — Die Cast Econobox with or without Mounting Flanges

- ADC-10 aluminum alloy
- Heavy duty .09” thick external wall mounting bracket
- Mounts to wall or panel with #10 size screws (not included)

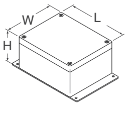

Fig. 38 — Extruded Aluminum Boxes

- One piece extruded aluminum housing
- Individual aluminum end panels
- ABS plastic panel bezels
- Internal PCB card guides

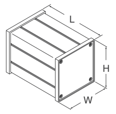

Fig. 39 — Sloping Panel Cabinets

- Steel
- Removable front panel
- Hinged top opens completely for access to components mounted on chassis

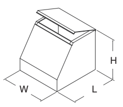

Fig. 40 — Slope Enclosures

- Solid Top
- .09” Base
- .05” Cover
- Rubber Feet

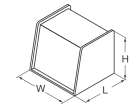

Fig. 41 — Converta Boxes

- Welded base and two-sided cover
- .05” aluminum
- Natural finish

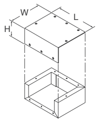

Fig. 42 — Utility Cabinets

- Sturdy, all-welded body
- Available in .040” aluminum or 20 gauge steel: “AU” prefix – aluminum alloy in natural finish; “CU” prefix – steel in metallic gray finish

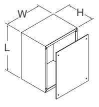

Fig. 43 — Small Compucab Series Cabinets

- Dual-slope keyboard styling
- Base and side .09” aluminum; back panel and cover .05” aluminum
- Rubber feet included

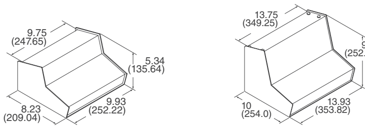

2 Piece Design

3 Piece Design

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Natural	12.00 (304.8)	10.00 (254)	3.00 (76.2)	377-1021-ND	32.20	26.96	AC-413
	14.00 (355.6)	10.00 (254)	3.00 (76.2)	377-1022-ND	32.80	27.50	AC-414
	17.00 (431.8)	10.00 (254)	2.00 (50.8)	377-1023-ND	29.20	24.43	AC-415
	17.00 (431.8)	10.00 (254)	3.00 (76.2)	377-1024-ND	34.20	28.54	AC-416
	17.00 (431.8)	12.00 (304.8)	3.00 (76.2)	377-1025-ND	36.10	30.07	AC-418
	17.00 (431.8)	13.00 (330.2)	2.00 (50.8)	377-1026-ND	37.00	30.86	AC-419
	17.00 (431.8)	13.00 (330.2)	3.00 (76.2)	377-1027-ND	42.60	35.57	AC-420
	9.50 (241.3)	5.00 (127)	3.00 (76.2)	377-1028-ND	16.70	13.92	AC-421
	12.00 (304.8)	8.00 (203.2)	3.00 (76.2)	377-1029-ND	25.40	21.21	AC-424
	17.00 (431.8)	10.00 (254)	4.00 (101.6)	377-1030-ND	49.20	41.13	AC-427
	17.00 (431.8)	13.00 (330.2)	4.00 (101.6)	377-1031-ND	51.90	43.29	AC-428
	7.00 (177.8)	5.00 (127)	3.00 (76.2)	377-1032-ND	14.00	11.69	AC-429
	6.00 (152.4)	4.00 (101.6)	3.00 (76.2)	377-1033-ND	12.40	10.30	AC-430
	6.00 (152.4)	4.00 (101.6)	2.00 (50.8)	377-1034-ND	10.10	8.47	AC-431

Chassis Bottom Plates

Color	Dimensions - Inch (mm) Chassis Length	Fits Width	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Natural	6.00 (152.40)	4.00 (101.60)	377-1035-ND	5.00	4.17	BPA-1505
	8.00 (203.20)	6.00 (152.40)	377-1036-ND	7.10	5.85	BPA-1513
	10.00 (254)	8.00 (203.20)	377-1037-ND	8.80	7.34	BPA-1518
	12.00 (304.80)	8.00 (203.20)	377-1038-ND	10.70	8.97	BPA-1519
	17.00 (431.80)	8.00 (203.20)	377-1039-ND	11.00	9.22	BPA-1520
	12.00 (304.80)	10.00 (254)	377-1040-ND	10.70	8.97	BPA-1523
	14.00 (355.60)	10.00 (254)	377-1041-ND	10.70	8.97	BPA-1524
	17.00 (431.80)	12.00 (304.80)	377-1042-ND	15.30	12.79	BPA-1528
	17.00 (431.80)	14.00 (355.60)	377-1043-ND	16.20	13.52	BPA-1529
	17.00 (431.80)	15.00 (381)	377-1044-ND	20.30	16.94	BPA-1530
	17.00 (431.80)	17.00 (431.80)	377-1045-ND	24.70	20.61	BPA-1531
	7.00 (177.80)	5.00 (127)	377-1046-ND	4.90	4.07	BPA-1589
	9.50 (241.30)	5.00 (127)	377-1047-ND	5.00	4.17	BPA-1590
	10.00 (254)	5.00 (127)	377-1048-ND	4.90	4.07	BPA-1591
	7.00 (177.80)	7.00 (177.80)	377-1049-ND	4.90	4.07	BPA-1592
	9.00 (228.60)	7.00 (177.80)	377-1050-ND	6.10	5.11	BPA-1593
	11.00 (279.40)	7.00 (177.80)	377-1051-ND	6.30	5.25	BPA-1594
	12.00 (304.80)	7.00 (177.80)	377-1052-ND	6.90	5.75	BPA-1595
	17.00 (431.80)	10.00 (254)	377-1053-ND	11.30	9.47	BPA-1597
	17.00 (431.80)	13.00 (330.20)	377-1054-ND	15.80	13.17	BPA-1598

Diecast Aluminum Econoboxes

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 37 — Econobox							
Natural	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1107-ND	6.90	5.75	CU-123
	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1108-ND	7.20	6.05	CU-124
	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1109-ND	11.60	9.65	CU-234
	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1110-ND	19.60	16.35	CU-247
	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1111-ND	23.00	19.20	CU-347
Fig. 37 — Econobox with Mounting Flanges							
Natural	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1462-ND	14.40	12.03	CU-4123
Black	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1463-ND	16.50	13.78	CU-4123-B
Natural	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1464-ND	18.40	15.34	CU-4124
Black	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1465-ND	19.90	16.56	CU-4124-B
Natural	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1466-ND	24.20	20.17	CU-4234
Black	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1467-ND	27.00	22.48	CU-4234-B
Natural	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1468-ND	32.20	26.86	CU-4247
Black	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1469-ND	37.20	31.00	CU-4247-B
Natural	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1470-ND	37.70	31.44	CU-4347
Black	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1471-ND	42.70	35.59	CU-4347-B
Natural	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1472-ND	13.80	11.50	CU-4470
Black	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1473-ND	14.90	12.44	CU-4470-B
Natural	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1474-ND	20.50	17.09	CU-4471
Black	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1475-ND	23.00	19.17	CU-4471-B
Black	4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1477-ND	27.00	22.48	CU-4472-B
Natural	4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1478-ND	22.40	18.65	CU-4473
Natural	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1480-ND	29.40	24.53	CU-4474
Black	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1481-ND	33.40	27.84	CU-4474-B
Natural	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1482-ND	33.90	28.28	CU-4475
Black	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1483-ND	38.00	31.67	CU-4475-B
Natural	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1484-ND	28.40	23.67	CU-4476
Black	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1485-ND	31.70	26.40	CU-4476-B
Natural	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1486-ND	29.60	24.67	CU-4477
Black	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1487-ND	34.50	28.73	CU-4477-B
Natural	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1488-ND	47.00	39.19	CU-4478
Black	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1489-ND	53.10	44.28	CU-4478-B
Natural	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1490-ND	21.90	18.28	CU-4479
Black	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1491-ND	23.40	19.50	CU-4479-B

Extruded Aluminum Boxes

Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 38 — Extruded Aluminum Boxes						
3.81 (96.77)	3.14 (79.76)	1.57 (39.88)	377-1492-ND	14.30	11.94	EX-4500
5.38 (136.65)	3.14 (79.76)	1.57 (39.88)	377-1493-ND	18.20	15.17	EX-4501
6.96 (176.78)	3.14 (79.76)	1.57 (39.88)	377-1494-ND	22.00	18.32	EX-4502
6.14 (155.96)	5.38 (136.65)	3.18 (80.77)	377-1495-ND	27.50	22.94	EX-4521
6.96 (176.78)	6.14 (155.96)	3.18 (80.77)	377-1496-ND	33.60	27.99	EX-4522
9.32 (236.73)	6.14 (155.96)	3.18 (80.77)	377-1497-ND	42.40	35.36	EX-4523
5.38 (136.65)	3.82 (97.03)	3.82 (97.03)	377-1498-ND	22.60	18.86	EX-4541
6.96 (176.78)	3.82 (97.03)	3.82 (97.03)	377-1499-ND	28.10	23.42	EX-4542
9.32 (236.73)	3.82 (97.03)	3.82 (97.03)	377-1500-ND	34.70	28.92	EX-4543

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 39 — Sloping Panel Cabinets							
Metallic Gray	7.31 (185.7)	7.06 (179.3)	6.50 (165.1)	377-1066-ND	69.30	57.97	C-1584
	7.31 (185.7)	9.06 (230.1)	6.50 (165.1)	377-1067-ND	66.80	55.74	C-1585
	7.31 (185.7)	11.06 (280.9)	6.50 (165.1)	377-1068-ND	78.30	65.33	C-1586
	8.00 (203.2)	10.06 (255.5)	8.00 (203.2)	377-1069-ND	83.80	69.95	C-1588
	8.50 (215.9)	13.06 (331.7)	8.00 (203.2)	377-1070-ND	111.70	93.33	C-1892
	10.50 (266.7)	18.06 (458.7)	10.00 (254)	377-1071-ND	164.90	137.62	C-1893
	8.00 (203.2)	14.06 (357.1)	8.00 (203.2)	377-1072-ND	101.90	85.12	C-1894
	8.18 (207.78)	18.06 (458.7)	9.00 (228.6)	377-1073-ND	141.80	118.43	C-1896
Fig. 40 — Slope Enclosures							
Black/White	5.00 (127)	4.93 (125.22)	4.25 (107.95)	377-1074-ND*	42.90	35.80	SC-12100
	10.00 (254)	11.93 (303.02)	3.25 (82.55)	377-1075-ND	77.10	64.40	SC-12101
Fig. 41 — Converta Boxes							
Natural	8.00 (203.2)	4.00 (101.6)	2.00 (50.8)	377-1221-ND	17.30	14.45	CU-482-A
	9.50 (241.3)	5.00 (127)	2.50 (63.5)	377-1222-ND	19.80	16.55	CU-592-A
	12.00 (304.8)	6.00 (152.4)	2.50 (63.5)	377-1223-ND	26.00	21.75	CU-622-A

* Single knockout only — centered

Small Utility Cabinets

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 42 — Utility Cabinets							
Natural	5.00 (127)	6.00 (152.40)	4.00 (101.60)	377-1056-ND	16.90	14.09	AU-1029
	6.00 (152.40)	6.00 (152.40)	6.00 (152.40)	377-1057-ND	25.80	21.55	AU-1039
	9.00 (228.60)	6.00 (152.40)	5.00 (127)	377-1058-ND	28.00	23.38	AU-1040
Metallic Gray	6.00 (152.40)	6.00 (152.40)	6.00 (152.40)	377-1059-ND	33.00	27.50	CU-1098
	9.00 (228.60)	6.00 (152.40)	5.00 (127)	377-1060-ND	37.30	31.10	CU-1099
	12.00 (304.80)	7.00 (177.80)	6.00 (152.40)	377-1061-ND	58.50	48.85	CU-1124
	4.00 (101.60)	5.00 (127)	3.00 (76.20)	377-1062-ND	20.00	16.76	CU-728
	5.00 (127)	6.00 (152.40)	4.00 (101.60)	377-1063-ND	24.60	20.49	CU-729
	10.00 (254)	8.00 (203.20)	7.00 (177.80)	377-1064-ND	56.40	47.10	CU-879
	15.00 (381)	9.00 (228.60)	7.00 (177.80)	377-1065-ND	80.10	66.95	CU-882

Small Cabinets

Description	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 43 — Compucab Series – Small Metal Enclosures				
2 Piece Design	377-1296-ND	83.00	69.30	SC-13100
3 Piece Design	377-1297-ND	161.60	134.90	SC-13101

(Continued)

Enclosures and Racks

Small Cabinets *(Cont.)*

Dimensions in Inch (mm)

Fig. 44 — Champion Cabinets

- No screws on front or rear panel
- Ventilation slots in bottom and rear panel
- Black top and bottom; white front and rear
- .05" aluminum
- Four adhesive rubber feet included

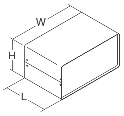

Fig. 45 — Portacab Cabinets

- Designed for bench or portable use
- Louvered sides
- .05" aluminum
- Metallic gray
- Handle capacity 25 pounds
- Four plastic feet included

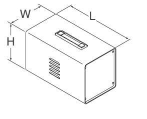

Fig. 46 — TR Series Cabinets

- Top and bottom .05" aluminum; front panel .09" aluminum
- Extruded aluminum frame
- Corner gussets for added support
- Carrying handle may be used as tilting bail
- Front panel, self-adhesive rubber feet and handle/bail included
- Royal blue texture body with white frame and bail

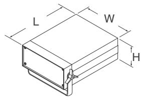

Fig. 47 — Aluminum Instrument Case

- Aluminum body with plastic front and rear bezels
- Removable front and rear panels
- Adjustable locking aluminum/ plastic handle
- Extruded internal grooves for horizontal mounting of circuit board, chassis or panel

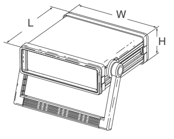

Fig. 48 — Rack Mount Chassis

- Front panel .12" thick mill finish aluminum with "Surface Shield" protection
- Side panels are punched on a .87" grid
- Handles and covers sold separately

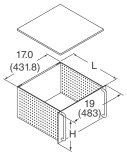

Fig. 49 — Small Rack Mount Chassis

- Panels .10" thick aluminum; chassis .05" thick aluminum
- Covers sold separately

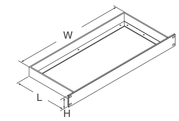

Fig. 50 — ValuLine Cabinets

- Side and front panels .09" aluminum; base, rear and top .05" aluminum
- 25lbs. load capacity
- Rack mounting brackets and rubber feet included

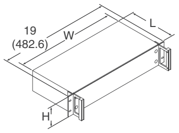

Fig. 51 — Open Racks

- Panel holes #12-24 tapped
- 1,000 pounds load capacity

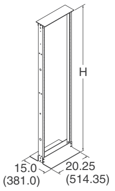

Fig. 52 — Emperor Wall Mount Cabinets

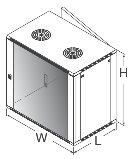

Small Cabinets

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 44 — Champion Series Cabinets							
Black	10.00 (254)	12.00 (304.8)	6.00 (152.4)	377-1210-ND	102.70	85.70	CS-11212-BT
	8.00 (203.2)	9.00 (228.6)	8.00 (203.2)	377-1211-ND	100.10	83.51	CS-11214-BT
	10.00 (254)	12.00 (304.8)	8.00 (203.2)	377-1212-ND	112.50	93.89	CS-11216-BT

Portable Cabinets

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 45 — Portacab Cabinets							
Gray	8.00 (203.2)	6.12 (155.45)	8.00 (203.2)	377-1315-ND	107.70	89.85	WA-1540
	12.00 (304.8)	8.12 (206.25)	9.00 (228.6)	377-1316-ND	148.70	124.15	WA-1541
	8.00 (203.2)	10.12 (257.05)	8.00 (203.2)	377-1317-ND	126.50	105.70	WA-1542
	18.00 (457.2)	11.12 (282.45)	11.00 (279.4)	377-1318-ND	202.80	169.37	WA-1543
Fig. 46 — TR Series Cabinets							
Blue/ White	10.75 (273.05)	8.31 (211.07)	3.50 (88.9)	377-1312-ND	261.70	218.53	TR-6100
	13.25 (336.55)	8.31 (211.07)	5.25 (133.35)	377-1313-ND	280.20	233.94	TR-6101
	13.25 (336.55)	11.06 (280.9)	7.00 (177.8)	377-1055-ND	320.80	267.83	TR-6102
Fig. 47 — Aluminum Instrument Cases							
Natural	12.93 (328.42)	8.27 (210.06)	2.72 (69.09)	377-1561-ND	108.20	90.35	IA-6160
	12.93 (328.42)	10.16 (258.06)	2.72 (69.09)	377-1562-ND	125.90	105.15	IA-6161
	12.93 (328.42)	8.27 (210.06)	4.92 (124.97)	377-1563-ND	133.50	111.45	IA-6162
	12.93 (328.42)	10.16 (258.06)	4.02 (102.11)	377-1564-ND	147.80	123.40	IA-6163

Showcase — Rack Mount Chassis

Dimensions - Inch (mm) L	H	Handles	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 48 — Rack Mount Chassis						
17.06 (433.32)	5.25 (133.35)	H-9160-B	377-1268-ND	71.30	59.53	RM-14212
17.06 (433.32)	7.00 (177.8)	H-9111-B	377-1269-ND	81.60	68.13	RM-14213
22.00 (558.8)	5.25 (133.35)	H-9160-B	377-1392-ND	80.30	67.05	RM-14222
22.00 (558.8)	7.00 (177.8)	H-9111-B	377-1393-ND	94.20	78.69	RM-14223
22.00 (558.8)	8.75 (222.25)	H-9112-B	377-1394-ND	114.70	95.79	RM-14224
22.00 (558.8)	10.50 (266.7)	H-9113-B	377-1395-ND	136.70	114.16	RM-14225

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Rack Mount Chassis Covers					
Solid Top or Bottom Cover	RM-14212-13	377-1310-ND	29.60	24.75	TBC-14252
Ventilated Top or Bottom Cover	RM-14212-13	377-1311-ND	33.10	27.65	TBC-14262
Solid Top or Bottom Cover	RM-14222-25	377-1396-ND	33.60	28.10	TBC-14253
Ventilated Top or Bottom Cover	RM-14222-25	377-1397-ND	35.50	29.70	TBC-14263

Dimensions - Inch (mm) L x W x H	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 49 — Small Rack Mount Chassis					
4.00 x 17.00 x 1.75 (101.6 x 431.8 x 44.45)	19.00 (482.6)	377-1205-ND	39.60	33.09	CH-14400
8.00 x 17.00 x 1.75 (203.2 x 431.8 x 44.45)	19.00 (482.6)	377-1206-ND	47.90	40.02	CH-14401
16.00 x 17.00 x 1.75 (406.4 x 431.8 x 44.45)	19.00 (482.6)	377-1207-ND	69.90	58.43	CH-14402
8.00 x 17.00 x 3.50 (203.2 x 431.8 x 88.9)	19.00 (482.6)	377-1208-ND	67.50	56.35	CH-14403
16.00 x 17.00 x 3.50 (406.4 x 431.8 x 88.9)	19.00 (482.6)	377-1209-ND	86.70	72.40	CH-14404

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Small Rack Mount Chassis Covers					
Ventilated Top or Bottom Cover	CH-14400	377-1417-ND	11.90	9.96	C-14430
Solid Top or Bottom Cover	CH-14400	377-1420-ND	10.00	8.34	C-14440
Ventilated Top or Bottom Cover	CH-14401, 03	377-1418-ND	20.00	16.73	C-14431
Solid Top or Bottom Cover	CH-14401, 03	377-1421-ND	15.80	13.17	C-14441
Ventilated Top or Bottom Cover	CH-14402, 04	377-1419-ND	32.00	26.73	C-14432
Solid Top or Bottom Cover	CH-14402, 04	377-1422-ND	27.00	22.55	C-14442

Dimensions - Inch (mm) L x W x H	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 50 — ValuLine Series Cabinets (with handles)					
8.00 x 17.00 x 3.50 (203.2 x 431.8 x 88.9)	19.00 (482.6)	377-1238-ND	97.00	81.00	HC-14099
13.00 x 17.00 x 3.50 (330.2 x 431.8 x 88.9)	19.00 (482.6)	377-1239-ND	188.90	157.70	HC-14101
13.00 x 17.00 x 5.25 (330.2 x 431.8 x 133.35)	19.00 (482.6)	377-1240-ND	194.70	162.60	HC-14103
13.00 x 17.00 x 7.00 (330.2 x 431.8 x 177.8)	19.00 (482.6)	377-1241-ND	204.40	170.70	HC-14104
13.00 x 17.00 x 8.75 (330.2 x 431.8 x 222.25)	19.00 (482.6)	377-1242-ND	214.20	178.85	HC-14105
15.00 x 17.00 x 10.50 (381 x 431.8 x 266.7)	19.00 (482.6)	377-1243-ND	239.60	200.05	HC-14107

Open Racks

Color	Dimensions - Inch (cm) Panel Space	H	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 51 — Aluminum Open Racks						
Black	77.00 x 19.00 (195.58 x 48.26)	84.00 (213.36)	377-1196-ND	260.00	217.08	ARR-1272-BT
Fig. 51 — Steel Open Racks						
Black	66.5 x 19.00 (168.91 x 48.26)	70.625 (179.38)	377-1407-ND	261.70	218.09	RR-1264-BT
Gray	71.75 x 19.00 (182.24 x 48.26)	75.625 (192.08)	377-1282-ND	267.50	222.92	RR-1364-MG

Emperor Wall Mount Cabinets

Dimensions - Inch (cm) L	W	H	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 52 — Emperor Wall Mount						
15.75 (40.00)	23.62 (59.99)	25.00 (63.5)	377-1624-ND	428.00	356.67	WM-5601
15.75 (40.00)	23.62 (59.99)	51.34 (130.40)	377-1625-ND	656.30	546.92	WM-5606
21.65 (54.99)	23.62 (59.99)	25.00 (63.5)	377-1626-ND	485.10	404.26	WM-5611
21.65 (54.99)	23.62 (59.99)	51.34 (130.40)	377-1627-ND	713.30	594.42	WM-5616

(Continued)

Dimensions in Inch (mm)

Fig. 53 — Keyboard/Mouse Shelf

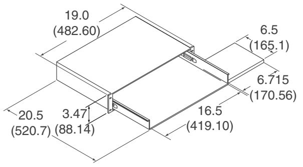

- Fits 19" panel
- Mouse pad slides underneath right or left
- Takes up 2-U of panel space

Fig. 54 — Stationary Shelves

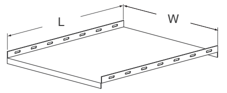

- Fits 19" wide panel spaces
- Supports up to 200 pounds
- Requires two pairs of panel mounting rails per cabinet

Fig. 55 — External Mount Brackets

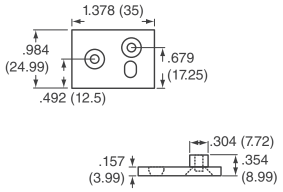

Fig. 56 — Equipment Shelves

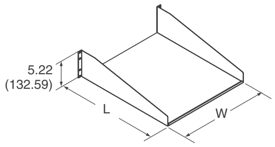

- Fits 19" panel spaces
- One piece construction
- Supports 150 pounds

Fig. 57 — Handles

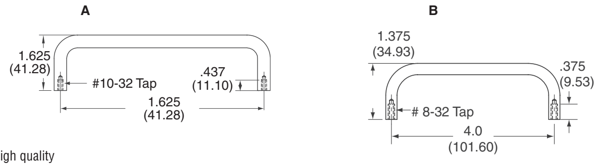

- High quality
- Designed for long wear

Fig. 58 — Panels

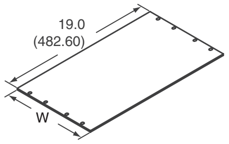

Fig. 59 — Slides

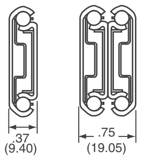

- Telescoping
- Zinc-plated alloy steel with ball bearings

Fig. 60 — Slide Mounting Brackets

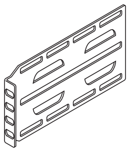

- Designed for mounting two and three piece slides
- Sold in pairs

Fig. 61 — Tem-Stat Temperature Control DIN Rail ***NEW!***

- Prevention of shut-downs caused by over-heating of electronic or electrical equipment in enclosures with DIN rails
- Contact Type: NO/close on rise
- Minimum Load: 20mA
- Connection: 2-pole terminal for AWG 14 maximum
- Temperature Range: 30°F ~ 140°F
- Operating Temperature: -4°F ~ 176°F (-20°C ~ 80°C)

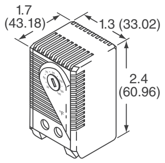

Fig. 62 — Fan Tray Assemblies

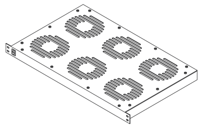

- Standard EIA 19.00" x 1-U (1.75") panel mounting
- 110/115VAC
- 7' long, three prong, power cord

†† Detachable 5' long power cord

Accessories

Color	Maximum Panel Keyboard Width – Inch (cm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 53 — Keyboard / Mouse Shelf					
Black	19.0 x 16.5 (48.26 x 41.91)	377-1244-ND	198.00	165.33	KS-1785-BT

Color	Dimensions - Inch (cm)		Digi-Key Part No.	Price Each		Bud Ind. Part No.
	L	W		1	3	
Fig. 54 — Stationary Shelves — Non-Ventilated						
Black	26.50 (67.31)	17.90 (45.47)	377-1306-ND	89.30	66.90	SH-2382
	22.75 (57.79)	17.90 (45.47)	377-1189-ND	83.40	62.50	60-2381
	17.75 (45.09)	17.00 (43.18)	377-1416-ND†	144.00	—	SH-2388
Fig. 54 — Stationary Shelves - Ventilated						
Black	17.75 (45.09)	17.90 (45.47)	377-1307-ND	83.20	62.35	SH-2384
	21.25 (53.98)	17.90 (45.47)	377-1308-ND	86.30	64.65	SH-2385
	26.50 (67.31)	17.90 (45.47)	377-1309-ND	93.50	70.05	SH-2386
Fig. 55 — External Mount Brackets						
Dk. Gray	—	—	377-1628-ND	2.00	1.67	MB-1390-DG
Lt. Gray	—	—	377-1629-ND	2.00	1.67	MB-1390-LG

† Sliding Shelf

Color	Dimensions - Inch (cm)		Digi-Key Part No.	Price Each		Bud Ind. Part No.
	L	W		1	10	
Fig. 56 — Equipment Shelves - Open Rack - Non-Ventilated						
Black	15.00 (38.10)	17.62 (44.75)	377-1291-ND	73.60	61.45	SA-1750-BT
	20.00 (50.80)	17.62 (44.75)	377-1293-ND	88.00	73.50	SA-1752-BT
Fig. 56 — Equipment Shelves - Open Rack - Ventilated						
Black	15.00 (38.10)	17.62 (44.75)	377-1292-ND	80.40	67.15	SA-1751-BT
	20.00 (50.80)	17.62 (44.75)	377-1294-ND	95.40	79.65	SA-1753-BT

Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Bud Ind. Part No.
Hand Clearance	Mounting Center	Diameter		1	10	
Fig. 57A — Chrome Plated Handles						
1.25 (31.75)	6.00 (152.4)	.37 (9.398)	377-1228-ND*	8.30	6.95	H-9110-B
.93 (23.62)	4.00 (101.6)	.37 (9.398)	377-1229-ND*	6.40	5.30	H-9111-B
.93 (23.62)	6.00 (152.4)	.37 (9.398)	377-1230-ND*	7.80	6.50	H-9112-B
.93 (23.62)	8.00 (203.2)	.37 (9.398)	377-1231-ND	10.60	8.85	H-9113-B
1.68 (3.36)	3.50 (88.9)	.37 (9.398)	377-1233-ND†	12.40	10.35	H-9160-B
1.68 (3.36)	5.25 (133.35)	.37 (9.398)	377-1234-ND†	10.60	8.90	H-9161-B
1.00 (25.4)	1.90 (48.26)	.25 (6.35)	377-1235-ND§	6.00	5.00	H-9166-B
1.00 (25.4)	3.00 (76.2)	.25 (6.35)	377-1236-ND§	5.70	4.70	H-9168-B
Fig. 57B — Clear Anodized Aluminum Handle						
1.09 (27.69)	4.00 (101.6)	—	377-1237-ND‡	10.80	9.05	H-9174-B

* Includes 2 - #10-32 x .37" screws. † Includes 2 - #6-32 x .50" screws. § Includes 2 - 1/4"-28 Hex nuts
‡ Includes 2-8.32 x .37" screws

Dimension W Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 58 — 19" Aluminum Surface Shield Panels – .12" Thick				
1.75 (44.45)	377-1300-ND	9.50	7.95	SFA-1831
3.50 (88.9)	377-1301-ND	13.90	11.55	SFA-1832
5.25 (133.35)	377-1302-ND	17.80	14.90	SFA-1833
7.00 (177.8)	377-1303-ND	22.80	19.05	SFA-1834
8.75 (222.25)	377-1304-ND	25.00	20.85	SFA-1835
10.50 (266.7)	377-1305-ND	32.40	27.00	SFA-1836
Fig. 58 — 19" Aluminum Panels – .12" Thick (Gray)				
1.75 (44.45)	377-1247-ND	13.00	10.92	PA-1101-MG
3.50 (88.9)	377-1248-ND	18.20	15.17	PA-1102-MG
5.25 (133.35)	377-1249-ND	25.00	20.82	PA-1103-MG
7.00 (177.8)	377-1250-ND	31.10	26.03	PA-1104-MG
8.75 (222.25)	377-1251-ND	37.60	31.40	PA-1105-MG
10.50 (266.7)	377-1252-ND	47.70	39.86	PA-1106-MG

Dimensions - Inch (cm)		Load Rating (per pair)	Digi-Key Part No.	Price Each		Bud Ind. Part No.
Slide Length	Travel			1	3	
Fig. 59 — Sliding Mechanisms – 2 Piece Slide						
12 (30.48)	8 (20.32)	140 lbs.	377-1199-ND	30.50	25.45	AS-5000-A
16 (40.64)	12 (30.48)	120 lbs.	377-1200-ND	40.10	33.50	AS-5001-A
20 (50.80)	15 (38.10)	92 lbs.	377-1201-ND	42.00	35.10	AS-5002-A
26 (66.04)	19 (48.26)	70 lbs.	377-1202-ND	46.40	38.75	AS-5004-A
20 (50.80)	20.875 (53.02)	91 lbs.	377-1203-ND*	91.00	76.00	AS-5042-A

* 3 piece slide full extension

Description	Digi-Key Part No.	Price Each 1	3	Bud Ind. Part No.
Fig. 60 — Slide Mounting Brackets (Sold in Pairs)				
Universal Kit	377-1204-ND	30.20	25.05	BAS-5106

Description	Digi-Key Part No.	Price Each 1	2	5	Bud Ind. Part No.
NEW! Fig. 61 — Tem-Stat Temperature Control DIN Rail NEW!					
Normally Open; Closes on Temperature Rise	377-1734-ND	30.60	—	—	TS-16
Rack Mount Power Outlet Strip					
15 Amps	377-1414-ND	77.00	—	57.75	POS-194-S
Fig. 62 — Fan Tray Assemblies					
Assembly with 3 Fans, Total CFM 315	377-1423-ND	215.10	—	155.95	FT-1973
Assembly with 6 Fans, Total CFM 540	377-1759-ND†† ***NEW!***	334.10	242.20	—	FT-1986
Assembly with 6 Fans, Total CFM 630	377-1424-ND	330.90	—	239.92	FT-1976
Assembly with 9 Fans, Total CFM 945	377-1425-ND	434.00	—	314.66	FT-1979

Fig. 1

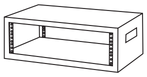

Desk Top Rack (Light-Duty)- RCBS Series: 16-gauge steel economy 19” table top rack. Rails are fixed at both front and rear. Includes rubber feet, 2 lifting handles and 10-32 clip nuts. Overall width 21”, overall height 2” over panel space. Finish textured; black (RAL7035) powder paint.

Fig. 2

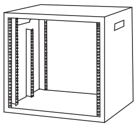

Desk Top Rack (Heavy-Duty) - RCHS Series: 16 gauge steel 19” table top rack. Rails are adjustable both front and rear. Includes 2 pair of fixed accessory rails (for rear support of heavier equipment), rubber feet, 2 lifting handles and 10-32 clip nuts. Overall height: 2” larger than panel height. Finish textured; black (RAL7035) powder paint.

Fig. 3

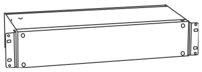

Rack Mount/Desk Top Enclosure RMCS & RMCV Series: mounts in standard 19” rack space or can be used table top. Panels (one black and one off white) can be removed from any of all 6 sides with only 4 screws. Shipped knocked down and includes all hardware, rack mount ears and rubber feet. Finished in textured black powder paint.

Fig. 4

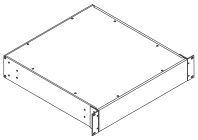

Rack Mount/Desk Top Enclosure RM_U Series: Strong construction yet light weight using all aluminum components. Suitable for desk top or rack mountable. Can be used with or without rack mounting brackets (included). Enclosure is finished in rugged, textured, black powder paint. Pull handles and rear bracket kit are not included with unit.

Fig. 5

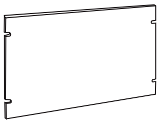

19” Aluminum Rack Panels PBPA: .125” thick, 19” rack mount panels. Finished in smooth black or light gray (RAL7035) powder paint and paper covered (one side) natural finish.

Fig. 6 ***NEW!***

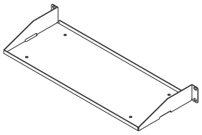

19” Fixed Shelf: Use with 19” panel width racks. Finished in textured black paint. Mounting hardware not included.

Color	Dimensions - Inch (mm) Panel H	Panel W	Panel D	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 1 - RCBS Desk Top Racks (Light Duty)								
Black	3.50 (89)	19.00 (483)	13.00 (330)	HM624-ND	101.84	94.01	81.47	RCBS1900313BK1
	5.25 (133)	19.00 (483)	13.00 (330)	HM625-ND	109.57	101.14	87.65	RCBS1900513BK1
	10.50 (267)	19.00 (483)	13.00 (330)	HM628-ND	140.42	129.62	112.33	RCBS1901013BK1
	14.00 (356)	19.00 (483)	13.00 (330)	HM630-ND	191.34	176.62	153.07	RCBS1901413BK1
	5.25 (133)	19.00 (483)	17.50 (445)	HM631-ND	131.17	121.08	104.94	RCBS1900517BK1
	7.00 (178)	19.00 (483)	17.50 (445)	HM632-ND	152.75	141.01	122.21	RCBS1900717BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM634-ND	192.87	178.03	154.30	RCBS1901017BK1
Fig. 2 - RCHS Desk Top (Heavy Duty)								
Black	28.00 (711)	19.00 (483)	24.50 (622)	HM660-ND	359.54	331.88	287.63	RCHS1902824BK1

Type	Dimensions - Inch (mm) Panel H	Panel D	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 3 - RMCS and RMCV Rack Mount/Desk Top								
Solid	1.75 (45)	8 (203)	1	HM736-ND	67.45	62.27	53.96	RMCS19018BK1
	1.75 (45)	13 (330)	1	HM737-ND	79.35	73.24	63.48	RMCS190113BK1
	3.50 (89)	8 (203)	2	HM738-ND	75.38	69.59	60.31	RMCS19038BK1
	3.50 (89)	13 (330)	2	HM739-ND	95.22	87.89	76.18	RMCS190313BK1
	5.25 (133)	13 (330)	3	HM740-ND	109.10	100.71	87.28	RMCS190513BK1
	7.00 (178)	13 (330)	4	HM741-ND	124.98	115.37	99.99	RMCS190713BK1
	8.75 (222)	13 (330)	5	HM742-ND	150.77	139.17	120.61	RMCS190813BK1
	10.50 (267)	13 (330)	6	HM743-ND	166.63	153.82	133.31	RMCS191013BK1
	10.50 (267)	15 (381)	6	HM744-ND	164.65	151.98	131.73	RMCS191015BK1
Vented	1.75 (45)	8 (203)	1	HM745-ND	74.18	68.48	59.35	RMCV19018BK1
	1.75 (45)	13 (330)	1	HM746-ND	87.28	80.57	69.83	RMCV190113BK1
	3.50 (89)	8 (203)	2	HM747-ND	82.92	76.54	66.34	RMCV19038BK1
	3.50 (89)	13 (330)	2	HM748-ND	104.73	96.68	83.79	RMCV190313BK1
	5.25 (133)	13 (330)	3	HM749-ND	120.04	110.81	96.03	RMCV190513BK1
	7.00 (178)	13 (330)	4	HM750-ND	137.49	126.92	109.99	RMCV190713BK1
	8.75 (222)	13 (330)	5	HM751-ND	165.85	153.10	132.68	RMCV190813BK1
	10.50 (267)	13 (330)	6	HM752-ND	183.30	169.21	146.64	RMCV191013BK1
	10.50 (267)	15 (381)	6	HM753-ND	181.11	167.19	144.90	RMCV19015BK1
Fig. 4 - RM_U Rack Mount/Desk Top								
Solid	1.75 (45)	8 (203)	1	HM995-ND	110.33	101.86	88.27	RM1U1908SBK
	1.75 (45)	13 (330)	1	HM996-ND	132.83	122.63	106.27	RM1U1913SBK
	1.75 (45)	18 (457)	1	HM997-ND	168.10	155.18	134.48	RM1U1918SBK
	3.50 (89)	8 (203)	2	HM998-ND	131.52	121.41	105.22	RM2U1908SBK
	3.50 (89)	13 (330)	2	HM999-ND	158.78	146.58	127.03	RM2U1913SBK
	3.50 (89)	18 (457)	2	HM1000-ND	201.00	185.55	160.80	RM2U1918SBK
	5.25 (133)	8 (203)	3	HM1001-ND	157.12	145.04	125.70	RM3U1908SBK
	5.25 (133)	13 (330)	3	HM1002-ND	188.23	173.77	150.59	RM3U1913SBK
	5.25 (133)	18 (457)	3	HM1003-ND	238.27	219.95	190.62	RM3U1918SBK
Vented	1.75 (45)	8 (203)	1	HM1004-ND	115.55	106.67	92.44	RM1U1908VBK
	1.75 (45)	13 (330)	1	HM1005-ND	139.98	129.23	111.99	RM1U1913VBK
	1.75 (45)	18 (457)	1	HM1006-ND	178.18	164.49	142.55	RM1U1918VBK
	3.50 (89)	8 (203)	2	HM1166-ND	138.67	128.01	110.94	RM2U1908VBK
	3.50 (89)	13 (330)	2	HM1007-ND	169.20	156.20	135.36	RM2U1913VBK
	3.50 (89)	18 (457)	2	HM1008-ND	211.05	194.83	168.84	RM2U1918VBK
	5.25 (133)	8 (203)	3	HM1009-ND	164.23	151.61	131.39	RM3U1908VBK
	5.25 (133)	13 (330)	3	HM1010-ND	198.65	183.38	158.92	RM3U1913VBK
	5.25 (133)	18 (457)	3	HM1011-ND	250.18	230.96	200.15	RM3U1918VBK

Description	Qty. Per Pack	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
19” Rack Mount Hardware						
10-32 x 0.75” Phillips oval head screw/plastic washer	4	HM826-ND	3.24	2.99	2.59	1421A
Nickel plated 10-32 x 0.625” countersunk Phillips head	100	HM827-ND	18.70	17.26	14.97	1421A100B
Black plastic cup washer for countersunk 10-32 screws	100	HM828-ND	34.02	31.40	27.21	1421A100W
Nickel plated cup washer for countersunk 10-32 screws	100	HM829-ND	13.80	12.74	11.05	1421E100W
10-32 clip nuts for all panel rails	25	HM830-ND	14.82	13.69	11.85	1421N25

Color	Dimensions - Inch (mm) Panel H	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 5 - PBPA Aluminum 19” Rack Panels							
Black	1.75 (45)	1	HM772-ND	9.27	8.56	7.41	PBPA19001BK2
	3.50 (89)	2	HM773-ND	13.67	12.61	10.93	PBPA19003BK2
	5.25 (133)	3	HM774-ND	19.50	18.01	15.60	PBPA19005BK2
	7.00 (178)	4	HM775-ND	24.37	22.50	19.49	PBPA19007BK2
	8.75 (222)	5	HM776-ND	28.83	26.62	23.07	PBPA19008BK2
	10.50 (267)	6	HM777-ND	32.50	30.00	26.00	PBPA19010BK2
	12.25 (311)	7	HM778-ND	38.97	35.98	31.17	PBPA19012BK2
	14.00 (356)	8	HM779-ND	43.85	40.48	35.09	PBPA19014BK2
	15.75 (400)	9	HM780-ND	47.11	43.50	37.70	PBPA19015BK2
	17.50 (445)	10	HM781-ND	53.65	49.53	42.93	PBPA19017BK2
	19.25 (489)	11	HM782-ND	62.15	57.38	49.73	PBPA19019BK2
	21.00 (533)	12	HM783-ND	66.60	61.48	53.28	PBPA19021BK2
	31.00 (787)	18	HM789-ND	95.07	87.76	76.06	PBPA19031BK2
Light Gray	21.00 (533)	12	HM801-ND	66.60	61.48	53.28	PBPA19021CG2
Unfinished	1.75 (45)	1	HM808-ND	9.27	8.56	7.41	PBPA19001UNF
	3.50 (89)	2	HM809-ND	13.67	12.61	10.93	PBPA19003UNF
	5.25 (133)	3	HM810-ND	19.50	18.01	15.60	PBPA19005UNF
	7.00 (178)	4	HM811-ND	24.37	22.50	19.49	PBPA19007UNF
	8.75 (222)	5	HM812-ND	28.83	26.62	23.07	PBPA19008UNF
	10.50 (267)	6	HM813-ND	32.50	30.00	26.00	PBPA19010UNF
	12.25 (311)	7	HM814-ND	38.97	35.98	31.17	PBPA19012UNF
	14.00 (356)	8	HM815-ND	43.85	40.48	35.09	PBPA19014UNF

Type	Dimensions - Inch (mm) Panel H	Panel D	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
NEW! Fig. 6 - RASU and RASV 19” Fixed Shelves NEW!							
Solid	1.7(44)	7(178)	HM1238-ND	35.00	32.31	28.00	RASU190107UBK1
	2.0(52)	7(178)	HM1239-ND	35.00	32.31	28.00	RASU190107DBK1
	3.5(88)	14.5(368)	HM1240-ND	43.34	40.00	34.67	RASUL190314BK1
	5.2(133)	14.5(368)	HM1241-ND	55.01	50.77	44.00	RASUL190514BK1
Vented	1.7(44)	7(178)	HM1242-ND	37.00	34.16	29.60	RASV190107UBK1
	2.0(52)	7(178)	HM1243-ND	37.00	34.16	29.60	RASV190107DBK1
	3.5(88)	14.5(368)	HM1244-ND	46.01	42.46	36.80	RASVL190314BK1
	5.2(133)	14.5(368)	HM1245-ND	58.01	53.54	46.40	RASVL190514BK1

Plastic and Aluminum Enclosures

Fig. 1 – Plastic Instrument Enclosures - 1591 Series

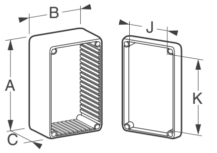

Lid adds 4mm to height of box.
For dimensions A, B and C, see charts below.

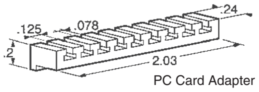

PC Card Adapter

Part No.	Dimensions - Inch (mm) J	K
1591L	1.4 (36)	2.5 (64)
1591A	1.1 (28)	3.1 (79)
1591B	1.6 (41)	3.5 (89)
1591C	1.7 (43)	3.9 (99)
1591D	2.3 (58)	5.0 (127)
1591E	3.5 (89)	6.6 (168)
1591G	2.8 (71)	3.9 (99)
1591H	1.9 (48)	5.6 (142)
1591M	1.3 (33)	2.5 (64)
1591S	2.4 (61)	3.5 (89)
1591T	2.3 (58)	3.9 (99)
1591U	3.9 (99)	3.9 (99)
1591V	3.9 (99)	3.9 (99)

Available in economical (black), Flame Retardant ABS (black, blue, or light gray) and translucent polycarbonate (blue). Economical versions come with four self-tapping #4 x 1/2” (12.7mm) Phillips screws countersunk into the lid. ABS versions carry a UL flammability rating of 94V-0 at 1.47mm thickness and a continuous use temperature rating of 60°C. ABS versions come with M3 x .5 x 10mm Phillips head screws, countersunk lid and integral tapped brass bushings. All versions have integral card guides to accept .062” (1.57mm) PC cards.

Fig. 2 – Plastic Instrument Enclosures - 1591XX Series

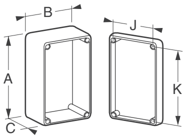

Lid adds 4.5mm to height of box.
(1591XXF Lid adds 3.0mm to height of box)
For dimensions A, B and C, see charts below.

Part No.	Dimensions Inch (mm) J	K
1591XXL	1.7 (43)	2.9 (74)
1591XXA	1.5 (38)	3.4 (86)
1591XXB	2.0 (51)	4.0 (102)
1591XXC	2.1 (53)	4.2 (107)
1591XXT	2.7 (69)	4.2(107)
1591XXD	2.6 (66)	5.4 (137)
1591XXE	3.8 (97)	7.0 (178)
1591XXF	5.3 (135)	8.0 (203)

Ideally suited for mounting printed circuit boards horizontally. Internal sides of enclosure are smooth for easy connector installation except for the largest enclosure, the 1591XXF size, which is a universal type. Strong - tongue and groove lid to box construction provides protection against access of dust and splashing water. Designed to meet IP54. Molded from easy to machine, flame retardant ABS plastic (carries a UL flammability rating of 94V-0). Stocked in satin texture black, translucent blue or gray. Lid is secured with M3x10 mm Phillips machine screws, threaded into integral brass bushings. Black and blue enclosures include black screws, gray includes standard nickel finish screws.

Fig. 3 – Diecast Aluminum Enclosures - 1590 Series

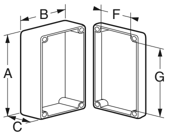

Lid adds 4mm to height of box
(except for 1500Z series).
For dimensions A, B, and C, see charts below.

Lid Height for 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosure

Part No.	Dimensions - Inch (mm)
1590Z100	0.5 (13)
1590Z110	0.5 (13)
1590Z120	0.6 (15)
1590Z130	0.5 (13)
1590Z150	0.8 (20)
1590Z160	0.8 (20)

Part No.	Dimensions - Inch (mm) F	G
1590A	0.9 (23)	3.0 (76)
1590B	1.7 (43)	3.8 (97)
1590BB	3.3 (84)	4.3 (110)
1590C	3.1 (77)	4.1 (104)
1590D	4.1 (104)	6.8 (173)
1590DD	4.1 (104)	6.8 (173)
1590E	4.1 (104)	6.8 (173)
1590F	6.8 (173)	6.8 (173)
1590H	0.9 (23)	1.4 (36)
1590J	3.1 (79)	5.1 (130)

Part No.	Dimensions - Inch (mm) F	G
1590K	4.3 (109)	4.3 (109)
1590LB	1.4 (36)	1.4 (36)
1590P1	2.9 (74)	5.4 (137)
1590S	2.6 (66)	3.7 (94)
1590T	2.5 (64)	4.1 (104)
1590U	4.1 (104)	4.1 (104)
1590V	4.1 (104)	4.1 (104)
1590G	1.3 (33)	3.3 (84)
1590N1	1.9 (48)	4.1(104)
1590R1	4.0 (102)	6.9 (175)

1590 Series: Drilled and tapped with lid and 6-32 x 1/2” (12.7mm) countersunk Phillips screws. Choice of standard, flanged or watertight lid. Interlocking flanged lid provides complete RF shielding. Watertight lid has a factory poured silicone rubber gasket around the perimeter to provide protection against dust and water.

1590Z Series: Watertight, heavy duty - thick wall. Two piece “tongue and groove” construction with a neoprene gasket provides protection against dust and water. Four recessed stainless steel machine screws and individual neoprene “O” rings secure lid. Optional M4 x 6mm copper grounding screws with designated enclosures. Designed to meet IP65.

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 1 – 1591 Economy Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM100-ND	4.04	3.37	3.11	1591LSBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM361-ND	3.40	2.84	2.63	1591MSBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM102-ND	3.76	3.14	2.90	1591ASBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM109-ND	5.50	4.59	4.24	1591SSBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM103-ND	4.08	3.41	3.15	1591BSBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM104-ND	4.30	3.58	3.31	1591CSBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM110-ND	6.04	5.04	4.65	1591TSBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM111-ND	6.48	5.41	5.00	1591USBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM112-ND	7.76	6.48	5.98	1591VSBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM107-ND	5.12	4.27	3.94	1591GSBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM105-ND	6.42	5.36	4.94	1591DSBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM108-ND	5.08	4.23	3.92	1591HSBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM106-ND	7.66	6.39	5.89	1591ESBK
Fig. 1 – 1591 ABS Flame Retardant Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM113-ND	6.46	5.39	4.97	1591LBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM362-ND	5.12	4.27	3.94	1591MBK
	3.3 (85)	2.2 (56)	1.4 (35)	HM847-NDΔ	6.80	5.67	5.24	1591LFLBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM848-NDΔ	5.38	4.48	4.14	1591MFLBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM114-ND	6.02	5.02	4.64	1591ABK
	3.9 (100)	2.0 (50)	0.8 (21)	HM858-NDΔ	6.32	5.27	4.87	1591AFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM849-NDΔ	9.18	7.66	7.07	1591SFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM121-ND	8.76	7.31	6.74	1591SBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM850-NDΔ	6.84	5.71	5.27	1591BFLBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM115-ND	6.50	5.42	5.00	1591BBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM854-NDΔ	13.02	10.86	10.02	1591VFLBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM853-NDΔ	10.88	9.08	8.38	1591UFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM851-NDΔ	7.26	6.06	5.59	1591CFLBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM852-NDΔ	10.16	8.47	7.82	1591TFLBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM855-NDΔ	8.60	7.17	6.61	1591GFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM116-ND	6.94	5.78	5.35	1591CBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM122-ND	9.68	8.08	7.45	1591TBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM123-ND	10.36	8.64	7.98	1591UBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM124-ND	12.40	10.33	9.54	1591VBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM119-ND	8.20	6.84	6.31	1591GBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM856-NDΔ	10.74	8.96	8.26	1591DFLBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM117-ND	10.24	8.54	7.88	1591DBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM120-ND	8.14	6.78	6.26	1591HBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM859-NDΔ	8.54	7.13	6.57	1591HFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM857-NDΔ	12.19	10.45	9.65	1591EFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM118-ND	12.28	10.24	9.45	1591EBK
Blue	3.3 (85)	2.2 (56)	1.4 (35)	HM125-ND	6.46	5.66	5.23	1591LBU
	3.9 (100)	2.0 (50)	0.8 (21)	HM126-ND	6.02	5.02	4.64	1591ABU
	4.3 (110)	3.2 (82)	1.6 (41)	HM134-ND	8.76	7.31	6.74	1591SBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM127-ND	6.50	5.42	5.00	1591BBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM128-ND	6.94	5.78	5.35	1591CBU
	4.7 (120)	3.2 (80)	2.2 (56)	HM135-ND	9.68	8.08	7.45	1591TBU
	5.9 (150)	3.2 (80)	1.8 (46)	HM129-ND	10.24	8.54	7.88	1591DBU
	7.5 (191)	4.3 (110)	2.2 (56)	HM131-ND	12.28	10.24	9.45	1591EBU
Light Gray	3.3 (85)	2.2 (56)	1.4 (35)	HM138-ND	6.46	5.39	4.97	1591LGY
	3.3 (85)	2.2 (56)	0.8 (21)	HM364-ND	5.12	4.27	3.94	1591MGY
	3.9 (100)	2.0 (50)	0.8 (21)	HM139-ND	6.02	5.02	4.64	1591AGY
	4.3 (110)	3.2 (82)	1.6 (41)	HM146-ND	8.76	7.31	6.74	1591SGY
	4.4 (112)	2.4 (62)	1.1 (27)	HM140-ND	6.50	5.42	5.00	1591BGY
	4.7 (120)	2.6 (65)	1.4 (36)	HM141-ND	6.94	5.78	5.35	1591CGY
	4.7 (120)	3.2 (80)	2.2 (56)	HM147-ND	9.68	8.08	7.45	1591TGY
	4.7 (120)	4.7 (120)	2.2 (56)	HM148-ND	10.36	8.64	7.98	1591UGY
	4.7 (120)	4.7 (120)	3.5 (90)	HM149-ND	12.40	10.33	9.54	1591VGY
	4.8 (121)	3.7 (94)	1.2 (30)	HM144-ND	8.20	6.84	6.31	1591GGY
	5.9 (150)	3.2 (80)	1.8 (46)	HM142-ND	10.24	8.54	7.88	1591DGY
	7.5 (191)	4.3 (110)	2.2 (56)	HM143-ND	12.28	10.24	9.45	1591EGY
Fig. 1 – 1591 Translucent Polycarbonate Enclosures								
Ice Blue	3.9 (100)	2.0 (50)	0.8 (21)†	HM878-ND	7.22	6.02	5.56	1591ATBU
	4.3 (110)	3.2 (82)	1.6 (40)†	HM1175-ND	10.50	8.75	8.08	1591STBU
	4.4 (112)	2.4 (62)	1.1 (27)†	HM876-ND	7.84	6.53	6.03	1591BTBU
	5.9 (150)	3.2 (80)	1.8 (46)†	HM989-ND	12.31	10.26	9.47	1591DTBU
	7.5 (191)	4.3 (110)	2.2 (57)†	HM985-ND	14.73	12.28	11.34	1591ETBU
IR Red	4.3 (110)	3.2 (82)	1.6 (40)†	HM1165-ND	10.50	8.75	8.08	1591STRD
	4.4 (112)	2.4 (62)	1.1 (27)†	HM987-ND	7.84	6.54	6.03	1591BTRD
	5.9 (150)	3.2 (80)	1.8 (46)†	HM990-ND	12.31	10.26	9.47	1591DTRD
Clear	3.9 (100)	2.0 (50)	0.8 (21)†	HM957-ND	7.21	6.01	5.55	1591ATCL
	4.3 (110)	3.2 (82)	1.6 (40)†	HM1176-ND	10.50	8.75	8.08	1591STCL
	4.4 (112)	2.4 (62)	1.1 (27)†	HM958-ND	7.84	6.54	6.03	1591BTCL
	4.7 (120)	2.6 (65)	1.4 (36)†	HM959-ND	8.35	6.96	6.43	1591CTCL
	5.9 (150)	3.2 (80)	1.8 (46)†	HM960-ND	12.31	10.26	9.47	1591DTCL
	7.5 (191)	4.3 (110)	2.2 (57)†	HM961-ND	14.73	12.28	11.34	1591ETCL
Fig. 1 – PC Card Adapter								
PC Card Adapter for 1591 Boxes				HM204-ND	2.67	2.27	2.10	1591Z6
Fig. 2 – 1591XX ABS Flame Retardant Plastic Enclosures								
Black	3.4 (87)	2.2 (57)	1.4 (36)	HM1168-ND	6.46	5.39	4.98	1591XXLBK
	3.9 (100)	2.0 (51)	0.8 (22)	HM1036-ND	6.00	5.00	4.62	1591XXABK
	4.4 (113)	2.5 (63)	1.1 (28)	HM1038-ND	6.52	5.44	5.02	1591XXBBK
	4.7 (121)	2.6 (66)	1.4 (37)	HM1040-ND	6.94	5.79	5.35	1591XXCBK
	4.8 (123)	3.2 (83)	2.2 (56)	HM1042-ND	9.68	8.07	7.45	1591XXTBK
	6.0 (152)	3.2 (82)	1.8 (47)	HM1044-ND	10.24	8.54	7.88	1591XXDBK
	7.6 (193)	4.4 (113)	2.2 (58)	HM1046-ND	12.28	10.24	9.45	1591XXEBK
	8.7 (221)	5.9 (150)	2.3 (60)	HM1048-ND	12.78	10.65	9.84	1591XXFBK
Gray	3.4 (87)	2.2 (57)	1.4 (36)	HM1035-ND	6.46	5.39	4.98	1591XXLGY
	3.9 (100)	2.0 (51)	0.8 (22)	HM1037-ND	6.02	5.02	4.64	1591XXAGY
	4.4 (113)	2.5 (63)	1.1 (28)	HM1039-ND	6.52	5.44	5.02	1591XXBGY
	4.7 (121)	2.6 (66)	1.4 (37)	HM1041-ND	6.94	5.79	5.35	1591XXCGY
	4.8 (123)	3.2 (83)	2.2 (56)	HM1043-ND	9.68	8.07	7.45	1591XXTGY
	6.0 (152)	3.2 (82)	1.8 (47)	HM1045-ND	10.24	8.54	7.88	1591XXDGY
	7.6 (193)	4.4 (113)	2.2 (58)	HM1047-ND	12.28	10.24	9.45	1591XXEGY
	8.7 (221)	5.9 (150)	2.3 (60)	HM1049-ND	12.78	10.65	9.84	1591XXFGY
Fig. 2 – 1591XX ABS Translucent Plastic Enclosures								
Blue	3.4 (87)	2.2 (57)	1.4 (36)	HM1050-ND	6.46	5.39	4.98	1591XXLTBU
	3.9 (100)	2.0 (51)	0.8 (22)	HM1051-ND	6.00	5.00	4.62	1591XXATBU
	4.4 (113)	2.5 (63)	1.1 (28)	HM1052-ND	6.52	5.44	5.02	1591XXBTBU
	4.7 (121)	2.6 (66)	1.4 (37)	HM1053-ND	6.94	5.79	5.35	1591XXCTBU
	4.8 (123)	3.2 (83)	2.2 (56)	HM1054-ND	9.68	8.07	7.45	1591XXTTBU
	6.0 (152)	3.2 (82)	1.8 (47)	HM1055-ND	10.24	8.54	7.88	1591XXDTBU
	7.6 (193)	4.4 (113)	2.2 (58)	HM1056-ND	12.28	10.24	9.45	1591XXETBU
Fig. 3 – 1590 Diecast Aluminum Alloy Enclosures								
Un-painted	1.97 (50)	1.97 (50)	0.83 (21)†	HM948-ND	7.14	5.95	5.49	1590LLB
	2.0 (51)	2.0 (51)	1.1 (28)	HM157-ND	7.58	6.32	5.83	1590LB
	2.1 (53)	1.5 (38)	1.1 (28)	HM365-ND	6.52	5.43	5.02	1590H
	3.6 (91)	1.5 (38)	1.1 (28)	HM150-ND	7.36	6.14	5.67	1590A
	3.62 (92)	3.62 (92)	1.5 (38)†	HM955-ND	10.20	8.50	7.85	1590Y
	3.9 (99)	2.0 (51)	0.8 (20)	HM841-ND	7.88	6.57	6.07	1590G
	4.4 (112)	3.2 (81)	1.6 (41)	HM158-ND	11.10	9.26	8.54	1590S
	4.4 (112)	2.3 (58)	1.1 (28)	HM151-ND	8.40	7.01	6.47	1590B
	4.7 (119)	3.7 (94)	1.2 (30)	HM152-ND	10.94	9.12	8.42	1590BB
	4.7 (119)	3.7 (94)	2.1 (53)	HM153-ND	12.30	10.25	9.47	1590C
	4.7 (120)	4.7 (120)	1.1 (28)†	HM949-ND	12.75	10.63	9.11	1590Q
	4.7 (119)	4.7 (119)	2.2 (56)	HM160-ND	16.80	14.00	12.93	1590U
	4.7 (119)	4.7 (119)	3.5 (89)	HM161-ND	23.12	19.27	17.79	1590V
	4.7 (119)	3.1 (79)	2.2 (56)	HM159-ND	11.44	9.54	8.80	1590T
	4.8 (122)	2.6 (66)	1.4 (36)	HM842-ND	11.46	9.56	8.82	1590N1
	4.9 (124)	4.9 (124)	3.0 (76)	HM367-ND	21.02	17.52	16.18	1590K
	4.92 (125)	4.92 (125)	2.1 (53)†	HM947-ND	19.38	16.15	13.84	1590KK
	5.7 (145)	3.7 (94)	1.8 (45)	HM366-ND	12.92	10.77	9.94	1590J
	6.0 (152)	3.2 (81)	1.8 (45)	HM348-ND	15.02	12.52	11.56	1590P1
	7.4 (188)	4.7 (119)	2.1 (53)	HM154-ND	20.14	16.79	15.49	1590D
	7.4 (188)	4.7 (119)	3.1 (79)	HM155-ND	21.53	17.96	16.57	1590E
	7.4 (188)	7.4 (188)	2.5 (64)	HM156-ND	28.94	24.12	22.27	1590F
	7.4 (188)	4.7 (119)	1.3 (33)	HM347-ND	17.70	14.76	13.92	1590DD
	7.6 (193)	4.4 (112)	2.2 (56)	HM843-ND	24.10	20.08	18.54	1590R1

* With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension “C” does not include lid height § Battery Compartment ◊ With Gaskets

(Continued)

Fig. 4 – Plastic Instrument Cases - 1598 Series

Available in both Flame Retardant ABS (black or light gray) and General purpose ABS (light gray). Both versions have a matte textured finish, .064" (1.63mm) thick brushed aluminum front and rear panels, integral horizontal PC board mounts on Eurocard centers, front and rear vertical PC board slots. Both versions accept optional tilt handles. ABS versions carry a UL flammability rating of 94V-0 and are secured with M3 x .5 x 10mm Phillips head screws into integral brass bushings. General purpose ABS versions are secured with #4 x 5/8" (15.9mm) self-tapping screws.

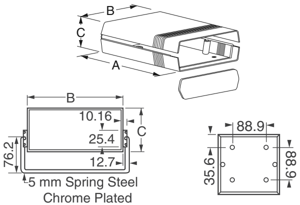

Example of case with optional tilt handle.

Example of Hammond Part #1598E mounting bosses.

Fig. 5 – Plastic Hand Held Cases - 1599 Series

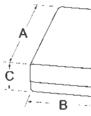

Available in both economical plastic (light gray) and Flame Retardant ABS (black or light gray). Both versions have these features: attractively styled and ergonomically designed for use as a hand held enclosure; ends sized for infra-red applications; extra deep top and ultra shallow base; two piece lap joint construction; recessed top area ideal for membrane display; internal universal battery compartment; user friendly 10mm x 10mm reference grid is molded into the top interior; six PC board mounting bosses molded into both the top and the base; vertical mounting slots molded into the top for PC boards or optional dividers. ABS versions carry UL flammability rating of 94V-0 and are secured with integral tapped brass bushings. Economical plastic versions are secured with self-tapping screws.

Fig. 6 – Plastic Hand Held Instrument Boxes - 1593 Series

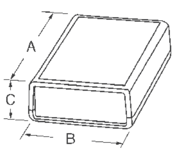

Electronic instrument enclosures. Two-piece lap joint construction. General purpose ABS plastic. Unit is secured with self-tapping screws. Recessed top for membrane display or pad.

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
NEW! Fig. 3 – 1590 Diecast Colored Aluminum Alloy Enclosures NEW!								
Green	4.7 (120)	3.7 (94)	1.2 (30)	HM1234-ND	14.20	11.84	10.93	1590BBGR
Gray	4.7 (120)	3.7 (94)	1.2 (30)	HM1235-ND	14.20	11.84	10.93	1590BBLG
Orange	4.7 (120)	3.7 (94)	1.2 (30)	HM1236-ND	14.20	11.84	10.93	1590BBOR
Red	4.7 (120)	3.7 (94)	1.2 (30)	HM1237-ND	14.20	11.84	10.93	1590BBRD
Blue	4.7 (120)	3.7 (94)	1.2 (30)	HM1246-ND	14.20	11.84	10.93	1590BBCB
Fig. 3 – 1590 Flanged Lid Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM570-ND	8.34	6.96	6.42	1590LBFL
	3.7 (94)	1.5 (38)	1.1 (28)	HM571-ND	8.10	6.76	6.24	1590AFL
	3.9 (99)	2.0 (51)	0.8 (20)	HM879-ND	8.68	7.23	6.68	1590GFL
	4.4 (112)	3.2 (81)	1.6 (41)	HM575-ND	12.20	10.17	9.39	1590SFL
	4.4 (112)	2.3 (58)	1.1 (28)	HM572-ND	9.24	7.70	7.11	1590BFL
	4.7 (119)	4.7 (119)	2.2 (56)	HM580-ND	18.48	15.40	14.22	1590UFL
	4.7 (119)	3.7 (94)	2.1 (53)	HM578-ND	13.52	11.27	10.40	1590CFL
	4.7 (119)	3.7 (94)	1.2 (30)	HM573-ND	12.02	10.02	9.25	1590BBFL
	4.7 (119)	3.1 (79)	2.2 (56)	HM579-ND	12.58	10.48	9.68	1590TFL
	4.8 (122)	2.6 (66)	1.4 (36)	HM881-ND	11.66	9.72	8.97	1590N1FL
	6.0 (152)	3.2 (81)	1.8 (45)	HM576-ND	16.52	13.77	12.71	1590P1FL
	7.4 (188)	4.7 (119)	2.1 (53)	HM577-ND	22.14	18.45	17.03	1590DFL
	7.4 (188)	7.4 (188)	2.5 (64)	HM581-ND	31.84	26.54	24.50	1590FFL
	7.4 (188)	4.7 (119)	3.1 (79)	HM582-ND	23.68	19.74	18.22	1590EFL
	7.4 (188)	4.7 (119)	1.3 (33)	HM574-ND	19.48	16.24	14.99	1590DDFL
	7.6 (193)	4.4 (112)	2.2 (56)	HM880-ND	26.52	22.11	20.40	1590R1FL
Fig. 3 – 1590 Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM584-ND	8.30	6.92	6.39	1590WLB
	2.1 (53)	1.5 (38)	1.1 (28)	HM835-ND	7.28	6.07	5.60	1590WH
	3.6 (91)	1.5 (38)	1.1 (28)	HM585-ND	8.48	7.07	6.53	1590WA
	3.9 (99)	2.0 (51)	0.8 (20)	HM837-ND	7.88	6.57	6.07	1590WG
	3.62 (92)	3.62 (92)	1.5 (38)†	HM954-ND	11.83	9.86	9.10	1590WY
	4.4 (112)	3.2 (81)	1.6 (41)	HM589-ND	12.28	10.23	9.45	1590WS
	4.4 (112)	2.3 (58)	1.1 (28)	HM586-ND	9.62	8.02	7.40	1590WB
	4.7 (119)	3.7 (94)	1.2 (30)	HM587-ND	12.18	10.15	9.37	1590WBB
	4.7 (119)	4.7 (119)	2.2 (56)	HM594-ND	18.28	15.23	14.06	1590WU
	4.7 (119)	4.7 (119)	3.5 (89)	HM597-ND	24.56	20.47	18.89	1590WV
	4.7 (119)	3.7 (94)	2.1 (53)	HM592-ND	13.46	11.22	10.35	1590WC
	4.9 (124)	4.9 (124)	3.0 (76)	HM838-ND	22.50	18.75	17.31	1590WK
	5.7 (145)	3.7 (94)	1.8 (45)	HM839-ND	14.14	11.79	10.88	1590WJ
	6.0 (152)	3.2 (81)	1.8 (45)	HM590-ND	16.54	13.79	12.73	1590WP1
	7.4 (188)	4.7 (119)	2.1 (53)	HM591-ND	21.78	18.15	16.76	1590WD
	7.4 (188)	7.4 (188)	2.5 (64)	HM595-ND	31.20	26.00	24.00	1590WF
	7.4 (188)	4.7 (119)	3.1 (79)	HM596-ND	23.20	19.34	17.85	1590WE
	7.4 (188)	4.7 (119)	1.3 (33)	HM588-ND	19.40	16.17	14.93	1590WDD
	7.6 (193)	4.4 (112)	2.2 (56)	HM833-ND	26.52	22.11	20.40	1590WR1
Fig. 3 – 1590Z Heavy Duty Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (50)	1.8 (46)	1.0 (25)	HM834-ND	11.00	9.31	8.65	1590Z060
	2.5 (64)	2.3 (58)	1.0 (25)	HM836-ND	14.89	12.60	11.70	1590Z061
	3.0 (76)	3.1 (79)	1.6 (41)†	HM598-ND*	21.72	18.39	17.08	1590Z100
	2.9 (75)	3.1 (80)	1.6 (41)†	HM599-ND	21.72	18.39	17.08	1590Z110
	3.9 (99)	2.5 (64)	1.0 (25)	HM831-ND	17.58	14.89	13.82	1590Z062
	4.8 (121)	4.7 (120)	2.4 (62)	HM845-ND	47.86	40.49	37.60	1590Z119
	4.9 (124)	3.2 (81)	1.7 (43)†	HM600-ND*	26.37	22.32	20.72	1590Z120
	6.3 (160)	6.3 (160)	2.8 (71)†	HM604-ND*‡	63.47	53.71	49.88	1590Z160
	6.9 (175)	3.2 (81)	1.6 (41)†	HM601-ND	31.23	26.44	24.55	1590Z130
	8.7 (221)	4.8 (120)	2.4 (61)†	HM603-ND*	57.38	48.56	45.10	1590Z150
	7.9 (201)	9.1 (231)	3.6 (91)	HM846-ND	139.17	117.75	109.35	1590Z231
	10.2 (259)	6.3 (160)	2.8 (71)	HM844-ND	86.18	72.93	67.72	1590Z162
	14.17 (360)	6.3 (160)	2.76 (70)†	HM956-ND*	127.73	108.08	100.36	1590Z166
Fig. 4 – 1598 ABS Flame Retardant 2-Piece Plastic Instrument Cases								
Black	5.3 (135)	5.3 (135)	2.0 (50)	HM163-ND	13.02	10.86	10.02	1598BBK
	6.2 (157)	3.7 (94)	1.4 (36)	HM162-ND	11.86	9.89	9.13	1598ABK
	6.3 (160)	6.3 (160)	3.4 (86)	HM166-ND	19.56	16.31	15.05	1598EBK
	7.1 (180)	6.1 (155)	1.4 (36)	HM368-ND	13.20	11.00	10.15	1598BBBK
	7.1 (180)	6.1 (155)	2.0 (50)	HM164-ND	16.28	13.58	12.52	1598CBK
	7.1 (180)	8.1 (206)	2.5 (64)	HM165-ND	19.88	16.57	15.29	1598DBK
	9.8 (249)	6.3 (160)	1.6 (41)	HM167-ND	20.88	17.40	16.07	1598FBK
	9.8 (249)	6.3 (160)	3.0 (76)	HM168-ND	24.48	20.40	18.84	1598GBK
	11.0 (279)	7.9 (201)	1.6 (41)	HM169-ND	25.68	21.40	19.76	1598HBK
	11.0 (279)	7.9 (201)	3.0 (76)	HM170-ND	31.84	26.54	24.49	1598JBK
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM172-ND	13.02	10.86	10.02	1598BGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM171-ND	11.86	9.89	9.13	1598AGY
Light Gray	7.1 (180)	6.1 (155)	1.4 (36)	HM369-ND	13.20	11.00	10.15	1598BBGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM173-ND	16.28	13.58	12.52	1598CGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM174-ND	19.88	16.57	15.29	1598DGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM175-ND	19.56	16.31	15.05	1598EGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM177-ND	24.48	20.40	18.84	1598GGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM178-ND	25.68	21.40	19.76	1598HGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM179-ND	31.84	26.54	24.49	1598JGY
Fig. 4 – 1598 General Purpose ABS 2-Piece Plastic Instrument Cases								
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM246-ND	9.76	8.14	7.51	1598BSGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM245-ND	8.72	7.27	6.71	1598ASGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM249-ND	13.64	11.37	10.50	1598ESGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM370-ND	10.54	8.79	8.12	1598BBSGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM247-ND	11.44	9.54	8.80	1598CSGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM248-ND	13.70	11.42	10.55	1598DSGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM250-ND	13.36	11.14	10.29	1598FSGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM251-ND	15.64	13.04	12.04	1598GSGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM253-ND	18.20	15.18	14.00	1598JSGY
Chrome Plated Tilt Handles for Instrument Cases								
Handle for 1598C, E, F, G Series				HM255-ND	13.58	11.33	10.45	1598TH1
Handle for 1598D, H, J Series				HM256-ND	13.58	11.33	10.45	1598TH2
Fig. 5 – 1599 Economical Plastic Hand Held Cases								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM209-ND	5.88	4.90	4.52	1599BSGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM210-ND	6.62	5.52	5.10	1599ESGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM211-ND	7.60	6.34	5.85	1599HSGY
	8.7 (221)	5.5 (140)	1.2 (30)	HM873-ND	10.32	8.60	7.94	1599KSGY
Fig. 5 – 1599 ABS Hand Held Cases								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM212-ND	7.72	6.44	5.94	1599BBK
	6.7 (170)	3.4 (86)	1.3 (33)	HM213-ND	9.40	7.84	7.24	1599EBK
	8.7 (221)	4.3 (109)	1.7 (43)	HM214-ND	11.52	9.61	8.87	1599HBK
	8.7 (221)	5.5 (140)	1.6 (41)	HM865-ND	12.34	10.29	9.50	1599KBK
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM215-ND	7.72	6.44	5.94	1599BGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM216-ND	9.40	7.84	7.24	1599EGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM217-ND	11.52	9.61	8.87	1599HGY
	8.7 (221)	5.5 (140)	1.6 (41)	HM866-ND	12.34	10.29	9.50	1599KGY
Fig. 5 – 1599 ABS Hand Held Cases with Battery Box								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM351-ND	9.76	8.14	7.51	1599BBKBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM353-ND	11.60	9.67	8.93	1599EBKBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM863-ND	15.70	13.09	12.08	1599HBKBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM864-ND	17.04	14.20	13.12	1599KBKBAT
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM352-ND	9.76	8.14	7.51	1599BGYBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM354-ND	11.60	9.67	8.93	1599EGYBAT
Fig. 5 – 1599 Economical Plastic Cases with Battery Box								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM349-ND	7.44	6.20	5.73	1599BSGYBAT
	6.7 (170)	3.4 (86)	1.3 (34)	HM350-ND	8.62	7.19	6.63	1599ESGYBAT
Fig. 6 – 1593 ABS Plastic Hand Held Boxes								
Black	2.6 (66)	2.6 (66)	1.1 (28)	HM355-ND	2.88	2.40	2.22	1593KBK
	2.6 (66)	2.6 (66)	1.1 (28)	HM860-ND	2.88	2.40	2.22	1593JBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM357-ND§	4.12	3.44	3.18	1593PBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM962-ND	4.12	3.45	3.17	1593LBK
	3.6 (92)	2.6 (66)	0.8 (20)	HM371-ND§	3.84	3.20	2.96	1593SBK
	4.3 (110)	2.9 (75)	1.0 (25)	HM963-ND	4.26	3.56	3.28	1593NBK
	4.4 (112)	2.6 (66)	1.1 (28)	HM359-ND§	4.64	3.87	3.58	1593QBK
	4.4 (112)	2.6 (66)	0.8 (20)	HM372-ND§	4.36	3.63	3.35	1593TBK
	4.5 (114)	1.4 (36)	1.0 (25)	HM861-ND	4.42	3.69	3.40	1593DBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM966-ND	5.36	4.48	4.12	1593XBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM862-ND§	5.36	4.47	4.12	1593YBK
Gray	2.6 (66)	2.6 (66)	1.1 (28)	HM356-ND	2.88	2.40	2.22	1593KGY
	2.6 (66)	2.6 (66)	1.1 (28)	HM867-ND	2.88	2.40	2.22	1593JGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM358-ND§	4.12	3.44	3.18	1593PGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM967-ND	4.12	3.45	3.17	1593LGY
	4.3 (110)	2.9 (75)	1.0 (25)	HM964-ND	4.26	3.56	3.28	1593NGY
	4.4 (112)	2.6 (66)	1.1 (28)	HM360-ND§	4.64	3.87	3.58	1593QGY
	4.5 (114)	1.4 (36)	1.0 (25)	HM868-ND	4.42	3.69	3.40	1593DGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM870-ND	5.36	4.47	4.12	1593XGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM869-ND§	5.36	4.47	4.12	1593YGY
Infrared Replacement Panels for 1593 Series								
Replacement Panel for 1593K, P, Q, Y, X, L Series				HM888-ND	.62	.52	.48	1593PIR10
Replacement Panel for 1593S, T Series				HM889-ND	.37	.31	.29	1593SIR10

* With mounting shelf ‡ With lid ground screw ∆ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment ◊ With Gaskets

(Continued)

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 7 – Miniature General Purpose Enclosures - 1551 Series

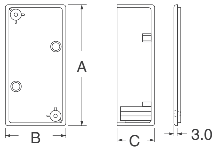

Two piece lap joint construction. Two P.C. standoffs molded into interior. Designed to meet IP54. General purpose ABS plastic.

Fig. 8 – Miniature General Purpose Enclosures - 1551 FL Series

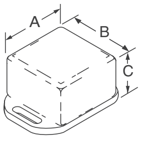

Ideally suited for mounting small printed circuit boards or used as potting boxes. Flanged lid is perfect for wall or shelf mounting or suspending with a tie wrap. Molded in a choice of black or gray - general purpose ABS plastic. Two P.C. board standoffs molded into interior. Designed to meet IP54.

Fig. 9 – Plastic Instrument Boxes - 1594 Series

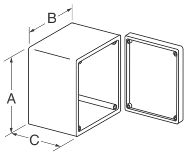

Cover adds 12mm to height

Available in both Economical Plastic (light gray) and Flame Retardant ABS (black or light gray). Both versions feature lap joint construction, interlocking flange on lid, and a rugged and robust design.

Fig. 10 – Plastic Instrument Consoles - 1595 Series

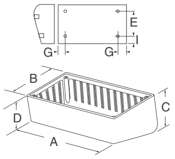

Part No.	Dimensions			
	D	E	G	I
1595C	39.6	62.2	21.8	10.2
1595E	51.6	85.1	21.8	10.2

For dimensions A, B and C, see charts below.

Aluminum lid and rubber feet included.

Available in Flame Retardant ABS (black or light gray) which meets UL 94V-0 flammability tests. Unique sloped front design comes with 0.04" (1.02mm) thick brushed aluminum front panel, four self-adhesive rubber feet, and four M3 x .5 x 10mm machine screws threaded into integral brass bushings. Integral card guides accept .062" (1.57mm) PC boards. Base has four internal 0.20" (5.08mm) stand-off bosses.

Fig. 11 – Aluminum Utility Cases - 1411 Series

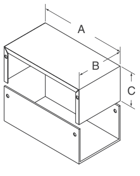

.040" (1.02mm) thick aluminum. Four self-tapping screws included. Choice of unpainted or ASA 61 gray powder paint finish (outside only).

Fig. 12 – Heavy Duty Chassis Case and Cover Plates - 1444 Series

Spot welded heavy duty construction chassis. Cover holes are punched with 4 holes (hardware not provided). Natural Aluminum finish.

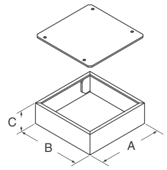

Cover sold separately.

Cover No.	Use with Digi-Key #	Use with Hammond #
HM275-ND	HM257-ND	1444-6
HM276-ND	HM258-ND	1444-8
HM277-ND	HM259-ND	1444-9
	HM260-ND	1444-10
HM278-ND	HM261-ND	1444-12
HM279-ND	HM262-ND	1444-14
HM280-ND	HM263-ND	1444-15
	HM264-ND	1444-16
HM282-ND	HM266-ND	1444-20

Cover No.	Use with Digi-Key #	Use with Hammond #
HM283-ND	HM267-ND	1444-22
	HM268-ND	1444-24
HM284-ND	HM269-ND	1444-26
	HM270-ND	1444-28
HM285-ND	HM271-ND	1444-29
HM286-ND	HM272-ND	1444-30
	HM273-ND	1444-32
	HM274-ND	1444-33

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 7 – 1551 ABS Plastic General Purpose Boxes								
Black	1.38 (35)	1.38 (35)	0.59 (15)	HM910-ND	1.52	1.27	1.09	1551NBK
	1.38 (35)	1.38 (35)	0.79 (20)	HM993-ND	1.56	1.30	1.21	1551MBK
	1.58 (40)	1.58 (40)	0.59 (15)	HM912-ND	1.60	1.33	1.15	1551QBK
	1.58 (40)	1.58 (40)	0.79 (20)	HM911-ND	1.66	1.39	1.20	1551PBK
	1.97 (50)	1.38 (35)	0.59 (15)	HM907-ND	1.70	1.42	1.21	1551FBK
	1.97 (50)	1.97 (50)	0.59 (15)	HM914-ND	1.78	1.49	1.27	1551SBK
	1.97 (50)	1.97 (50)	0.79 (20)	HM913-ND	1.82	1.52	1.30	1551RBK
	1.97 (50)	1.38 (35)	0.79 (20)	HM375-ND	1.74	1.46	1.34	1551GBK
	2.36 (60)	1.38 (35)	0.59 (15)	HM908-ND	1.88	1.57	1.35	1551JBK
	3.15 (80)	1.58 (40)	0.59 (15)	HM909-ND	1.96	1.64	1.41	1551LBK
	2.36 (60)	1.38 (35)	0.79 (20)	HM376-ND	1.92	1.60	1.49	1551HBK
	3.15 (80)	1.58 (40)	0.79 (20)	HM377-ND	2.00	1.67	1.54	1551KBK
Light Gray	1.38 (35)	1.38 (35)	0.59 (15)	HM1126-ND	1.52	1.27	1.17	1551NGY
	1.38 (35)	1.38 (35)	0.79 (20)	HM1127-ND	1.56	1.30	1.21	1551MGY
	1.58 (40)	1.58 (40)	0.59 (15)	HM1128-ND	1.60	1.34	1.24	1551QGY
	1.58 (40)	1.58 (40)	0.79 (20)	HM1129-ND	1.66	1.39	1.28	1551PGY
	1.97 (50)	1.38 (35)	0.59 (15)	HM1130-ND	1.70	1.42	1.31	1551FGY
	1.97 (50)	1.38 (35)	0.79 (20)	HM378-ND	1.74	1.46	1.34	1551GGY
	1.97 (50)	1.97 (50)	0.59 (15)	HM1131-ND	1.78	1.49	1.37	1551SGY
	1.97 (50)	1.97 (50)	0.79 (20)	HM1132-ND	1.82	1.52	1.41	1551RGY
	2.36 (60)	1.38 (35)	0.59 (15)	HM1133-ND	1.88	1.57	1.45	1551JGY
	2.36 (60)	1.38 (35)	0.79 (20)	HM379-ND	1.92	1.60	1.49	1551HGY
	3.15 (80)	1.58 (40)	0.59 (15)	HM1134-ND	1.96	1.64	1.51	1551LGY
	3.15 (80)	1.58 (40)	0.79 (20)	HM380-ND	2.00	1.67	1.54	1551KGY
Fig. 7 – 1551 ABS Translucent Plastic Boxes								
Blue	1.38 (35)	1.38 (35)	0.59 (15)	HM1135-ND	1.52	1.27	1.17	1551NTBU
	1.38 (35)	1.38 (35)	0.79 (20)	HM1136-ND	1.56	1.30	1.21	1551MTBU
	1.58 (40)	1.58 (40)	0.59 (15)	HM1137-ND	1.60	1.34	1.24	1551QTBU
	1.58 (40)	1.58 (40)	0.79 (20)	HM1138-ND	1.66	1.39	1.28	1551PTBU
	1.97 (50)	1.38 (35)	0.59 (15)	HM1139-ND	1.70	1.42	1.31	1551FTBU
	1.97 (50)	1.38 (35)	0.79 (20)	HM1140-ND	1.74	1.45	1.34	1551GTBU
	1.97 (50)	1.97 (50)	0.59 (15)	HM1141-ND	1.78	1.49	1.37	1551STBU
	1.97 (50)	1.97 (50)	0.79 (20)	HM1142-ND	1.82	1.52	1.41	1551RTBU
	2.36 (60)	1.38 (35)	0.59 (15)	HM1143-ND	1.88	1.57	1.45	1551JTBU
	2.36 (60)	1.38 (35)	0.79 (20)	HM1144-ND	1.92	1.60	1.48	1551HTBU
	3.15 (80)	1.58 (40)	0.59 (15)	HM1145-ND	1.96	1.64	1.51	1551LTBU
	3.15 (80)	1.58 (40)	0.79 (20)	HM1146-ND	2.00	1.67	1.54	1551KTBU
Fig. 8 – 1551 FL ABS Plastic General Purpose Boxes With Flanged Lid								
Black	1.38 (35)	1.38 (35)	0.59 (15)	HM1057-ND	1.52	1.27	1.17	1551NFLBK
	1.38 (35)	1.38 (35)	0.79 (20)	HM1058-ND	1.56	1.30	1.21	1551MFLBK
	1.58 (40)	1.58 (40)	0.59 (15)	HM1059-ND	1.60	1.34	1.24	1551QFLBK
	1.58 (40)	1.58 (40)	0.79 (20)	HM1060-ND	1.66	1.39	1.28	1551PFLBK
	1.97 (50)	1.97 (50)	0.59 (15)	HM1061-ND	1.78	1.49	1.37	1551SFLBK
	1.97 (50)	1.97 (50)	0.79 (20)	HM1062-ND	1.82	1.52	1.41	1551RFLBK
	1.97 (50)	1.38 (35)	0.79 (20)	HM1063-ND	1.74	1.45	1.34	1551GFLBK
	2.36 (60)	1.38 (35)	0.59 (15)	HM1064-ND	1.88	1.57	1.45	1551JFLBK
	3.15 (80)	1.58 (40)	0.59 (15)	HM1065-ND	1.96	1.64	1.51	1551LFLBK
	2.36 (60)	1.38 (35)	0.79 (20)	HM1066-ND	1.92	1.60	1.48	1551HFLBK
	3.15 (80)	1.58 (40)	0.79 (20)	HM1067-ND	2.00	1.67	1.54	1551KFLBK
1551H Hardware								
P.C Board Self tapping #2 x 3/16" screws (Package of 100)				HM1177-ND ***NEW!***	5.84	4.87	4.50	1551ATS100
Fig. 9 – 1594 Economical Plastic Instrument Boxes								
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM221-ND	4.54	3.79	3.50	1594ASGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM222-ND	4.78	3.99	3.69	1594BSGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM223-ND	5.22	4.36	4.02	1594CSGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM224-ND	5.58	4.66	4.29	1594DSGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM225-ND	7.26	6.06	5.58	1594ESGY
Fig. 9 – 1594 ABS Plastic Instrument Boxes								
Black	2.2 (56)	2.2 (56)	1.1 (28)	HM226-ND	7.90	6.59	6.08	1594ABK
	3.2 (81)	2.2 (56)	1.1 (28)	HM227-ND	8.26	6.89	6.36	1594BBK
	4.1 (105)	2.6 (66)	1.3 (33)	HM228-ND	10.16	8.51	7.83	1594CBK
	5.2 (131)	2.6 (66)	1.7 (43)	HM229-ND	12.10	10.09	9.31	1594DBK
	6.6 (167)	4.2 (107)	2.1 (53)	HM230-ND	14.90	12.42	11.47	1594EBK
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM231-ND	7.90	6.59	6.08	1594AGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM232-ND	8.26	6.89	6.36	1594BGY

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Light Gray	4.1 (105)	2.6 (66)	1.3 (33)	HM233-ND	10.16	8.47	7.83	1594CGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM234-ND	12.10	10.09	9.31	1594DGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM235-ND	14.90	12.42	11.47	1594EGY
Fig. 10 – 1595 ABS Plastic Instrument Consoles								
Light Gray	6.3 (160)	3.8 (97)	2.3 (58)	HM241-ND	12.26	10.22	9.15	1595CGY
	8.5 (216)	5.1 (130)	3.0 (76)	HM242-ND	15.18	12.65	11.34	1595EGY
Black	6.3 (160)	3.8 (97)	2.3 (58)	HM243-ND	12.26	10.22	9.15	1595CBK
	8.5 (216)	5.1 (130)	3.0 (76)	HM244-ND	15.18	12.65	11.34	1595EBK
Fig. 11 – 1411 Aluminum Utility Cases								
Light Gray	2.7 (69)	2.2 (56)	1.6 (41)	HM315-ND	6.20	5.16	4.77	1411B
	3.2 (81)	2.2 (56)	1.1 (28)	HM316-ND	6.29	5.25	4.84	1411C
	3.2 (81)	2.2 (56)	1.6 (41)	HM317-ND	6.34	5.29	4.88	1411D
	4.0 (102)	2.2 (56)	3.0 (76)	HM318-ND	6.96	5.80	5.35	1411F
	4.0 (102)	2.2 (56)	1.6 (41)	HM319-ND	6.58	5.48	5.06	1411G
	4.0 (102)	2.2 (56)	2.2 (56)	HM320-ND	6.71	5.60	5.16	1411H
	5.0 (127)	4.0 (102)	3.0 (76)	HM322-ND	10.00	8.34	7.69	1411L
	5.0 (127)	3.0 (76)	2.2 (56)	HM324-ND	8.15	6.80	6.27	1411N
	6.0 (152)	3.0 (76)	3.0 (76)	HM323-ND	11.18	9.32	8.60	1411M
	6.0 (152)	5.0 (127)	4.0 (102)	HM325-ND	14.01	11.68	10.78	1411P
	7.0 (178)	5.0 (127)	3.0 (76)	HM326-ND	13.64	11.37	10.50	1411Q
	8.0 (203)	6.0 (152)	3.5 (89)	HM327-ND	22.36	18.64	17.21	1411R
	8.0 (203)	4.0 (102)	3.0 (76)	HM328-ND	20.50	17.09	15.77	1411S
	10.0 (254)	2.2 (56)	1.6 (41)	HM329-ND	22.46	18.71	17.27	1411T
	10.0 (254)	6.0 (152)	3.5 (89)	HM330-ND	27.24	22.70	20.96	1411U
	12.0 (305)	7.0 (178)	4.0 (102)	HM332-ND	32.61	27.18	25.08	1411X
	17.0 (432)	5.0 (127)	4.0 (102)	HM333-ND	35.42	29.52	27.25	1411Z
Un-painted	2.7 (69)	2.2 (56)	1.6 (41)	HM605-ND	4.02	3.35	3.09	1411BU
	3.2 (81)	2.2 (56)	1.1 (28)	HM606-ND	4.27	3.57	3.28	1411CU
	3.2 (81)	2.2 (56)	1.6 (41)	HM607-ND	4.62	3.85	3.56	1411DU
	4.0 (102)	2.2 (56)	3.0 (76)	HM608-ND	5.71	4.77	4.40	1411FU
	4.0 (102)	2.2 (56)	1.6 (41)	HM609-ND	5.00	4.17	3.85	1411GU
	4.0 (102)	2.2 (56)	2.2 (56)	HM610-ND	5.36	4.47	4.12	1411HU
	5.0 (127)	2.2 (56)	2.2 (56)	HM611-ND	6.66	5.55	5.12	1411KU
	5.0 (127)	4.0 (102)	3.0 (76)	HM612-ND	8.28	6.90	6.37	1411LU
	5.0 (127)	3.0 (76)	2.2 (56)	HM614-ND	7.08	5.90	5.44	1411NU
	6.0 (152)	3.0 (76)	3.0 (76)	HM613-ND	9.32	7.77	7.18	1411MU
	6.0 (152)	5.0 (127)	4 .0 (102)	HM615-ND	11.81	9.84	9.09	1411PU
	7.0 (178)	5.0 (127)	3.0 (76)	HM616-ND	11.28	9.42	8.69	1411QU
	8.0 (203)	6.0 (152)	3.5 (89)	HM617-ND	16.69	13.91	12.84	1411RU
	8.0 (203)	4.0 (102)	3.0 (76)	HM618-ND	14.92	12.44	11.48	1411SU
	10.0 (254)	2.2 (56)	1.6 (41)	HM619-ND	16.78	13.99	12.91	1411TU
	10.0 (254)	6.0 (152)	3.5 (89)	HM620-ND	20.96	17.47	16.13	1411UU
	12.0 (305)	3.0 (76)	2.2 (56)	HM621-ND	20.50	17.09	15.77	1411WU
	12.0 (305)	7.0 (178)	4.0 (102)	HM622-ND	26.54	22.12	20.42	1411XU
	17.0 (432)	5.0 (127)	4.0 (102)	HM623-ND	29.82	24.85	22.94	1411ZU
Fig. 12 – 1444 Heavy Duty Chassis Cases								
Un-painted	4.0 (102)	4.0 (102)	2.0 (51)	HM257-ND	10.11	8.56	7.94	1444-6
	6.0 (152)	4.0 (102)	2.0 (51)	HM258-ND	10.38	8.80	8.17	1444-8
	7.0 (178)	5.0 (127)	2.0 (51)	HM261-ND	11.31	9.58	8.89	1444-12
	8.0 (203)	4.0 (102)	1.0 (25)	HM259-ND	10.81	9.15	8.50	1444-9
	8.0 (203)	4.0 (102)	2.0 (51)	HM260-ND	11.08	9.38	8.70	1444-10
	9.0 (229)	5.0 (127)	2.0 (51)	HM262-ND	13.67	11.58	10.75	1444-14
	10.0 (254)	6.0 (152)	1.0 (25)	HM263-ND	11.93	10.09	9.38	1444-15
	10.0 (254)	6.0 (152)	2.0 (51)	HM264-ND	14.81	12.54	11.64	1444-16
	12.0 (305)	8.0 (203)	2.0 (51)	HM267-ND	25.86	21.88	20.32	1444-22
	12.0 (305)	8.0 (203)	3.0 (76)	HM268-ND	26.16	22.15	20.56	1444-24
	12.0 (305)	10.0 (254)	2.0 (51)	HM271-ND	26.02	22.03	20.45	1444-29
	13.5 (343)	5.0 (127)	2.0 (51)	HM265-ND	15.69	13.28	12.33	1444-18
	16.0 (406)	8.0 (203)	2.0 (51)	HM269-ND	26.08	22.07	20.50	1444-26
	16.0 (406)	8.0 (203)	3.0 (76)	HM270-ND	31.03	26.27	24.39	1444-28
	17.0 (432)	4.0 (102)	3.0 (76)	HM266-ND	25.97	21.98	20.40	1444-20
	17.0 (432)	10.0 (254)	2.0 (51)	HM272-ND	30.15	25.52	23.70	1444-30
	17.0 (432)	10.0 (254)	3.0 (76)	HM273-ND	35.30	29.88	27.75	1444-32
	17.0 (432)	10.0 (254)	4.0 (102)	HM274-ND	50.93	43.09	40.02	1444-33

* With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment ◊ With Gaskets *(Continued)*

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 13 – Metal Utility Cases - 1415 Series

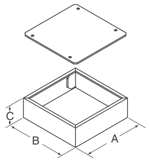

Sizes A to E are 20 gauge 0.036" (.91mm) thick steel. Sizes F to J are 18 gauge 0.048" (1.22mm) thick steel. Self-tapping screws included. ASA 61 gray baked enamel finish (outside only). Models A to D have 4 mounting holes. Models E to J have 6 mounting holes.

Fig. 14 – Ventilated Low Profile Instrument Cases - 1426 Series

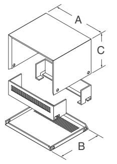

20 gauge steel enclosure finished in satin off-white. 0.064"(1.63mm) thick aluminum panels front and rear. Front panel is satin black, rear panel matches case color. Includes screws and rubber feet.

Fig. 15 – Low Profile Instrument Cases - 1458 Series

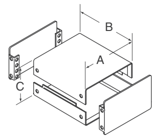

18 gauge steel case with black satin finish. 0.064" (1.63mm) thick aluminum panels (one satin black and one satin white for each case). Symmetrical design so either end can be front. 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

Fig. 16 – Ventilated High Profile Instrument Cases - 1401 Series

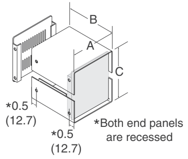

18 gauge steel case finished in satin off-white. 0.064" (1.63mm) thick aluminum panels, front finished in satin black; vented back finished in satin off-white. Rear panel is vented top and bottom 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

Fig. 17 – Plastic Sloping Consoles - 1599 "T" Series

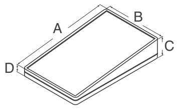

Flame Retardant ABS which meets UL94V-O flammability tests. Includes integral threaded brass inserts and machine screws providing extra strength for repeated assembly and disassembly of lid.

Part No.	Dimensions - Inch (mm) D
1599HTSBK	.75 (19)
1599KTSBK	.67 (17)
1599KTLBK	.71 (18)

Fig. 18 – Hand Held Enclosure - 1553 Series

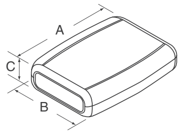

Choice of 2 versions (with or without battery door and compartment). Molded in general purpose ABS plastic with a black overmold, soft plastic grip. Top cover recessed for membrane display or keypad. P.C. board standoffs molded into case. Removable front panel. Battery compartment versions include 4 battery clips (for 2-AA batteries) and a 9 volt (PP3) battery clip.

Fig. 19 – Flat Lid Enclosure - 1554 Series

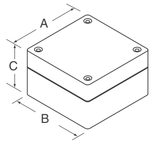

Molded in flame retardant gray ABS plastic which carries a UL flammability rating of UL94HB. Silicone rubber gasketed lid with two piece "tongue and groove" construction. Meets IP66 and NEMA 4, 4X, 12 and 13 ratings. Lid secured with self captivating M4 stainless steel machine screws threaded into integral stainless steel bushings. Lid and mounting hole located outside of the gasket seal.

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 12 – Cover Plates								
Un-painted	4.0 (102)	4.0 (102)	Panel Thickness	HM275-ND	4.89	4.14	3.85	1434-6
	6.0 (152)	4.0 (102)		HM276-ND	5.24	4.43	4.11	1434-8
	7.0 (178)	5.0 (127)		HM278-ND	5.12	4.33	4.02	1434-12
	8.0 (203)	4.0 (102)		HM277-ND	4.96	4.20	3.90	1434-10
	9.0 (229)	5.0 (127)		HM279-ND	5.24	4.43	4.11	1434-14
	10.0 (254)	6.0 (152)		HM280-ND	7.85	6.64	6.17	1434-16
	12.0 (305)	8.0 (203)		HM283-ND	11.08	9.38	8.70	1434-22
	12.0 (305)	10.0 (254)		HM285-ND	11.08	9.38	8.70	1434-29
	16.0 (406)	8.0 (203)		HM284-ND	11.08	9.38	8.70	1434-26
	17.0 (432)	4.0 (102)		HM282-ND	8.44	7.16	6.65	1434-20
	17.0 (432)	10.0 (254)		HM286-ND	11.72	9.93	9.21	1434-30
Fig. 13 – 1415 Metal Utility Cases								
Gray	4.0 (102)	4.0 (102)	2.0 (51)	HM305-ND	15.31	12.96	12.03	1415A
	4.0 (102)	5.0 (127)	3.0 (76)	HM306-ND	15.56	13.17	12.23	1415B
	6.0 (152)	5.0 (127)	4.0 (102)	HM307-ND	19.76	16.71	15.53	1415C
	6.0 (152)	6.0 (152)	6.0 (152)	HM308-ND	30.33	25.67	23.84	1415D
	9.0 (229)	6.0 (152)	5.0 (127)	HM309-ND	32.84	27.79	25.80	1415E
	10.0 (254)	8.0 (203)	7.0 (178)	HM310-ND	49.69	42.05	39.05	1415F
	10.0 (254)	10.0 (254)	8.0 (203)	HM312-ND	63.99	54.15	50.28	1415H
	12.0 (305)	7.0 (178)	6.0 (152)	HM311-ND	49.41	41.81	38.83	1415G
	12.0 (305)	11.0 (279)	8.0 (203)	HM313-ND	72.11	61.02	56.66	1415I
	15.0 (383)	9.0 (230)	7.0 (179)	HM314-ND	70.58	59.73	55.47	1415J
Fig. 14 – 1426 Ventilated Low Profile Cases								
Off-White	8.0 (203)	6.0 (152)	4.0 (102)	HM298-ND	50.40	42.65	39.61	1426M
	10.0 (254)	7.0 (178)	4.0 (102)	HM299-ND	56.44	47.75	44.35	1426O
	11.0 (279)	11.7 (297)	5.5 (140)	HM300-ND	56.51	47.82	44.40	1426Q
	12.0 (305)	8.0 (203)	4.0 (102)	HM302-ND	60.47	51.18	47.52	1426V
	12.0 (305)	10.0 (254)	4.0 (102)	HM303-ND	64.51	54.59	50.69	1426W
	12.0 (305)	6.0 (152)	5.5 (140)	HM304-ND	60.47	51.18	47.52	1426Y
Fig. 15 – 1458 Low Profile Instrument Cases								
Black	4.0 (102)	4.0 (102)	3.0 (76)	HM334-ND	36.62	30.99	28.78	1458A3
	6.0 (152)	4.0 (102)	4.0 (102)	HM335-ND	40.61	34.36	31.91	1458B4
	6.0 (152)	6.0 (152)	3.0 (76)	HM336-ND	36.62	30.99	28.78	1458C3
	6.0 (152)	6.0 (152)	4.0 (102)	HM337-ND	37.82	32.01	29.72	1458C4
	8.0 (203)	8.0 (203)	3.0 (76)	HM338-ND	44.24	37.44	34.76	1458D3
	8.0 (203)	8.0 (203)	4.0 (102)	HM339-ND	46.70	39.52	36.70	1458D4
	8.0 (203)	8.0 (203)	5.0 (127)	HM340-ND	50.36	42.63	39.59	1458D5
	8.0 (203)	10.0 (254)	3.0 (76)	HM341-ND	47.92	40.56	37.66	1458E3
	8.0 (203)	10.0 (254)	4.0 (102)	HM342-ND	50.64	42.86	39.81	1458E4
	8.0 (203)	10.0 (254)	5.0 (127)	HM343-ND	53.43	45.21	41.98	1458E5
	10.0 (254)	8.0 (203)	3.0 (76)	HM344-ND	50.64	42.86	39.81	1458G3
	10.0 (254)	8.0 (203)	4.0 (102)	HM345-ND	54.91	46.48	43.15	1458G4
	10.0 (254)	8.0 (203)	5.0 (127)	HM346-ND	51.88	43.91	40.77	1458G5
Fig. 16 – 1401 Ventilated High Profile Cases								
Off-White	4.0 (102)	6.0 (152)	4.0 (102)	HM287-ND	48.53	41.07	38.13	1401AAA
	6.0 (152)	6.0 (152)	5.0 (127)	HM288-ND	52.28	44.24	41.09	1401AA
	6.0 (152)	10.0 (254)	5.0 (127)	HM289-ND	56.00	47.39	44.00	1401A
	8.0 (203)	10.0 (254)	9.0 (229)	HM290-ND	65.33	55.29	51.34	1401C
	8.0 (203)	8.0 (203)	8.0 (203)	HM291-ND	61.60	52.13	48.41	1401E
	10.0 (254)	12.0 (305)	9.0 (229)	HM292-ND	82.13	69.50	64.54	1401G
	10.0 (254)	14.0 (356)	6.5 (165)	HM293-ND	83.99	71.07	66.00	1401K
	12.0 (305)	8.0 (203)	9.0 (229)	HM294-ND	87.71	74.22	68.92	1401M
	14.0 (356)	10.0 (254)	5.0 (127)	HM296-ND	80.27	67.92	63.08	1401P
Fig. 17 – 1599 "T" Series Flame Retardant Styrene ABS Plastic Short Slope Console								
Black	4.3 (109)	8.7 (221)	1.8 (46)	HM883-ND	17.48	14.57	13.45	1599HTSBK
	5.5 (140)	8.7 (221)	1.6 (41)	HM884-ND	16.16	13.47	12.44	1599KTSBK
Fig. 17 – 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM885-ND	16.16	13.47	12.44	1599KTLBK

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 18 – 1553 Soft-Sided Hand Held Enclosure Without Battery Compartment								
Black	3.94 (100)	2.4 (61)	0.67 (17)	HM395-ND ***NEW!***	6.30	5.25	4.85	1553ABK
	4.62 (117)	3.11 (79)	0.95 (24)	HM984-ND	6.96	5.80	5.36	1553BBK
	4.62 (117)	3.11 (79)	0.95 (24)	HM1147-ND	6.96	5.80	5.36	1553BBKBK
	5.8 (147)	3.5 (89)	0.98 (24)	HM916-ND	7.47	6.23	5.34	1553DBK
	5.8 (147)	3.5 (89)	0.98 (24)	HM1151-ND	7.48	6.24	5.76	1553DBKBK
Blue	4.62 (117)	3.11 (79)	0.95 (24)	HM1148-ND	6.96	5.80	5.36	1553BTBUBK
	5.8 (147)	3.5 (89)	0.98 (24)	HM1152-ND	7.48	6.24	5.76	1553DTBUBK
Red	4.62 (117)	3.11 (79)	0.95 (24)	HM1149-ND	6.96	5.80	5.36	1553BRDBK
	5.8 (147)	3.5 (89)	0.98 (24)	HM1153-ND	7.48	6.24	5.76	1553DRDBK
Yellow	4.62 (117)	3.11 (79)	0.95 (24)	HM1150-ND	6.96	5.80	5.36	1553BYLBK
	5.8 (147)	3.5 (89)	0.98 (24)	HM1154-ND	7.48	6.24	5.76	1553DYLBK
Gray	3.94 (100)	2.4 (61)	0.67 (17)	HM396-ND ***NEW!***	6.30	5.25	4.85	1553AGY
	4.62 (117)	3.11 (79)	0.95 (24)	HM1173-ND	6.96	5.80	5.36	1553BGY
	5.8 (147)	3.5 (89)	0.98 (24)	HM1162-ND	7.48	6.24	5.76	1553DGY
Fig. 18 – 1553 Soft-Sided Hand Held Enclosure With Battery Compartment								
Black	4.62 (117)	3.11 (79)	0.95 (24)	HM915-ND	10.44	8.70	7.46	1553BBKBAT
	4.62 (117)	3.11 (79)	0.95 (24)	HM1155-ND	10.44	8.70	8.04	1553BBKBKBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM917-ND	11.48	9.57	8.20	1553DBKBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM1158-ND	11.48	9.57	8.84	1553DBKBKBAT
Blue	4.62 (117)	3.11 (79)	0.95 (24)	HM1156-ND	10.44	8.70	8.04	1553BTBUBKBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM1159-ND	11.48	9.57	8.84	1553DTBUBKBAT
Red	4.62 (117)	3.11 (79)	0.95 (24)	HM1174-ND	10.44	8.70	8.04	1553BRDBKBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM1160-ND	11.48	9.57	8.84	1553DRDBKBAT
Yellow	4.62 (117)	3.11 (79)	0.95 (24)	HM1157-ND	10.44	8.70	8.04	1553BYLBKBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM1161-ND	11.48	9.57	8.84	1553DYLBKBAT
Gray	4.62 (117)	3.11 (79)	0.95 (24)	HM1163-ND	10.44	8.70	8.04	1553BGYBAT
	5.8 (147)	3.5 (89)	0.98 (24)	HM1164-ND	11.48	9.57	8.84	1553DGYBAT
Fig. 19 – 1554 ABS Flame Retardant Watertight Flat Lid Plastic Enclosures								
Gray	2.6 (65)	2.6 (65)	1.6 (40)	HM918-ND	8.19	6.83	5.85	1554BGY
	3.5 (90)	3.5 (90)	2.4 (60)	HM920-ND	10.14	8.45	7.24	1554EGY
	4.7 (120)	2.6 (65)	1.6 (40)	HM983-ND	9.00	7.50	6.92	1554CGY
	4.7 (120)	2.6 (65)	2.4 (60)	HM919-ND	9.12	7.61	6.52	1554DGY
	4.7 (120)	3.5 (90)	2.4 (60)	HM921-ND	12.33	10.28	8.82	1554FGY
	4.7 (120)	3.5 (90)	3.2 (80)	HM922-ND	12.74	10.63	9.11	1554GGY
	4.7 (120)	4.7 (120)	2.4 (60)	HM924-ND	15.42	12.85	11.02	1554NGY
	4.7 (120)	4.7 (120)	3.2 (80)	HM925-ND	16.46	13.72	11.75	1554PGY
	6.3 (160)	3.5 (90)	2.4 (60)	HM968-ND	14.89	12.41	11.46	1554JGY
	6.3 (160)	3.5 (90)	3.5 (90)	HM923-ND	16.46	13.72	11.75	1554KGY
	6.3 (160)	6.3 (160)	2.4 (60)	HM926-ND	22.35	18.63	15.97	1554RGY
	6.3 (160)	6.3 (160)	3.5 (90)	HM927-ND	23.89	19.92	17.07	1554SGY
	7.1 (180)	4.7 (120)	2.4 (60)	HM994-ND	16.99	14.16	13.07	1554HGY
	7.1 (180)	4.7 (120)	3.5 (90)	HM928-ND	17.13	14.28	12.24	1554TGY
	7.9 (200)	4.7 (120)	3.5 (90)	HM929-ND	24.38	20.33	17.42	1554UGY
	9.4 (240)	6.3 (160)	3.5 (90)	HM930-ND	30.44	25.37	21.74	1554VGY
Fig. 20 – 1555 ABS Flame Retardant Watertight Styled Lid Plastic Enclosures								
Gray	2.6 (65)	2.6 (65)	1.6 (40)	HM931-ND	8.19	6.83	5.85	1555BGY
	3.5 (90)	3.5 (90)	2.4 (60)	HM934-ND	10.14	8.45	7.24	1555EGY
	4.7 (120)	2.6 (65)	1.6 (40)	HM932-ND	9.00	7.50	6.44	1555CGY
	4.7 (120)	3.5 (90)	2.4 (60)	HM935-ND	12.33	10.28	8.82	1555FGY
	4.7 (120)	4.7 (120)	2.4 (60)	HM940-ND	15.42	12.85	11.02	1555NGY
	4.7 (120)	4.7 (120)	3.2 (80)	HM941-ND	16.46	13.72	11.75	1555PGY
	6.3 (160)	3.5 (90)	2.4 (60)	HM938-ND	14.89	12.41	10.65	1555JGY
	6.3 (160)	3.5 (90)	3.5 (90)	HM939-ND	16.46	13.72	11.75	1555KGY
	6.3 (160)	6.3 (160)	3.5 (90)	HM943-ND	23.89	19.92	17.07	1555SGY
	7.1 (180)	4.7 (120)	2.4 (60)	HM937-ND	16.99	14.16	12.14	1555HGY
	7.1 (180)	4.7 (120)	3.5 (90)	HM944-ND	17.13	14.28	12.24	1555TGY
	7.9 (200)	4.7 (120)	3.5 (90)	HM945-ND	24.38	20.33	17.42	1555UGY
	9.4 (240)	6.3 (160)	3.5 (90)	HM946-ND	30.44	25.37	21.74	1555VGY

* With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment ◊ With Gaskets

(Continued)

Fig. 20 – Styled Lid Enclosure - 1555 Series

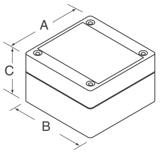

Styled lid has a smooth recessed surface on lid for a membrane keypad or label. Molded in flame retardant gray ABS plastic which carries a UL flammability rating of UL94HB. Silicone rubber gasketed lid with two piece "tongue and groove" construction. Meets IP66, (IP67, 1555F Series) and NEMA 4, 4X, 12 and 13 ratings. Lid secured with self captivating M4 stainless steel machine screws threaded into integral stainless steel bushings. Lid and mounting hole located outside of the gasket seal.

Fig. 21 – Extruded Aluminum with End Plates - 1455 Series

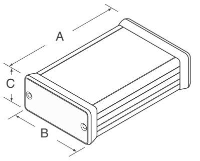

Clear anodized extruded aluminum enclosures. P.C. boards mount horizontally by sliding into internal slots extruded into the enclosure body. Minimum thickness of .06" (1.5mm). Extruded body includes a sliding removable "belly" plate except in the smaller "C" sizes.

Metal End: Includes two aluminum end panels and two black ABS plastic bezels. Includes hardware and self-adhesive rubber feet

Plastic End: Includes two easy to machine black solid ABS plastic end panels. Panels are one piece with integral bezel. Includes hardware and self-adhesive rubber feet.

Fig. 22 – Watertight Extruded Aluminum with End Plates - 1457 Series

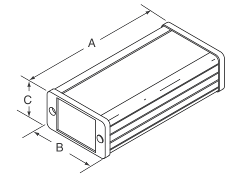

Watertight - heavy duty extruded enclosures designed to house P.C. boards or for equipment interfacing. P.C. boards mount horizontally by sliding into internal slots extruded into the enclosure body. Minimum thickness of .06" (1.5mm). Extruded aluminum body includes a recessed area for labels or membrane keypad. Designed to meet IP 65 ratings.

Includes: • Two diecast aluminum end panels • Extruded aluminum body • Two closed cell polyethylene foam • End plate gaskets and rubber "O" rings for assembly screws • All hardware and self-adhesive feet

Fig. 23 – Diecast Aluminum Enclosures - 1550 Series ***NEW!***

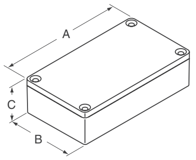

Rugged, dicast aluminum alloy (tough yet easy to machine), electronic instrument enclosure. Lap joint construction protection against access of dust and splashing water. The unpainted version is vibra finished for a smooth surface with no sharp edges. The painted version is painted with a tough - satin black polyester powder paint for a lasting finish, even after machining. Black screws are included to enhance the assembled appearance. No internal ribs for easy installation of connectors without interference or additional milling. Low side wall draft angle (2 degrees or less) for easy P.C. board mounting. Designed to meet IP 54 standards.

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
NEW! Fig. 20 – 1555F Watertight Polycarbonate Box with Mounting Flange NEW!								
Gray	4.7 (120)	2.6 (66)	1.7 (42)	HM383-ND	14.14	11.79	10.89	1555C2F22GY
	4.7 (120)	2.6 (66)	2.4 (62)	HM384-ND	14.80	12.34	11.39	1555C2F42GY
	4.7 (120)	3.6 (91)	1.5 (37)	HM387-ND	14.94	12.45	11.50	1555F2F17GY
	4.7 (120)	3.6 (91)	2.4 (62)	HM388-ND	15.80	13.17	12.16	1555F2F42GY
	6.3 (160)	3.6 (91)	1.5 (37)	HM391-ND	16.30	13.59	12.55	1555J2F17GY
	6.3 (160)	3.6 (91)	2.4 (62)	HM392-ND	17.68	14.74	13.61	1555J2F42GY
NEW! Fig. 20 – 1555F Watertight ABS Plastic Box with Mounting Flange NEW!								
Gray	4.7 (120)	2.6 (66)	1.7 (42)	HM385-ND	12.16	10.14	9.36	1555CF22GY
	4.7 (120)	2.6 (66)	2.4 (62)	HM386-ND	12.52	10.44	9.64	1555CF42GY
	4.7 (120)	3.6 (91)	1.5 (37)	HM389-ND	12.68	10.57	9.76	1555FF17GY
	4.7 (120)	3.6 (91)	2.4 (62)	HM390-ND	13.14	10.95	10.12	1555FF42GY
	6.3 (160)	3.6 (91)	1.5 (37)	HM393-ND	13.64	11.37	10.50	1555JF17GY
	6.3 (160)	3.6 (91)	2.4 (62)	HM394-ND	14.36	11.97	11.05	1555JF42GY
Fig. 21 – 1455 Extruded Aluminum With Metal End Plates								
Clear	3.15 (80)	2.13 (54)	0.91 (23)	HM969-ND	12.57	10.65	9.23	1455C801
	4.72 (120)	2.13 (54)	0.91 (23)	HM971-ND	13.43	11.37	9.85	1455C1201
	4.72 (120)	3.07 (78)	1.06 (27)	HM890-ND	17.44	14.76	12.79	1455J1201
	4.72 (120)	3.07 (78)	1.69 (43)	HM972-ND	18.05	15.27	13.24	1455K1201
	4.72 (120)	4.06 (103)	1.20 (30.5)	HM894-ND	20.12	17.03	14.75	1455L1201
	4.72 (120)	4.06 (103)	2.09 (53)	HM974-ND	20.12	17.03	14.75	1455N1201
	6.30 (160)	3.07 (78)	1.06 (27)	HM892-ND	19.50	16.51	14.31	1455J1601
	6.30 (160)	3.07 (78)	1.69 (43)	HM977-ND	20.10	17.01	14.75	1455K1601
	6.30 (160)	4.06 (103)	1.20 (30.5)	HM896-ND	22.66	19.17	16.63	1455L1601
	6.30 (160)	4.06 (103)	2.09 (53)	HM979-ND	22.66	19.17	16.63	1455N1601
	6.30 (160)	4.92 (125)	1.20 (30.5)	HM1114-ND	24.50	20.42	18.85	1455P1601
	6.30 (160)	4.92 (125)	2.03 (51.5)	HM1171-ND	26.86	22.39	20.67	1455Q1601
	6.30 (160)	6.50 (165)	1.20 (30.5)	HM992-ND	26.03	22.03	19.08	1455R1601
	6.30 (160)	6.50 (165)	2.03 (51.5)	HM903-ND	26.41	22.35	19.37	1455T1601
	8.66 (220)	4.06 (103)	1.20 (30.5)	HM898-ND	25.72	21.77	18.87	1455L2201
	8.66 (220)	4.06 (103)	2.09 (53)	HM981-ND	25.72	21.77	18.87	1455N2201
	8.66 (220)	4.92 (125)	1.20 (30.5)	HM1115-ND	27.76	23.14	21.36	1455P2201
	8.66 (220)	4.92 (125)	2.03 (51.5)	HM1172-ND	30.70	25.59	23.62	1455Q2201
	8.66 (220)	6.50 (165)	1.20 (30.5)	HM901-ND	29.10	24.63	21.34	1455R2201
	8.66 (220)	6.50 (165)	2.03 (51.5)	HM905-ND	29.70	25.13	21.79	1455T2201
Fig. 21 – 1455 Extruded Aluminum With Plastic End Plates								
Clear	3.15 (80)	2.76 (70)	0.47 (12)	HM1116-ND	8.04	6.71	6.19	1455A802
	3.15 (80)	2.82 (71.7)	0.75 (19)	HM1117-ND	8.60	7.17	6.62	1455B802
	3.15 (80)	2.13 (54)	0.91 (23)	HM970-ND	10.04	8.50	7.36	1455C802
	3.94 (100)	2.76 (70)	0.47 (12)	HM1118-ND	8.42	7.02	6.48	1455A1002
	3.94 (100)	2.82 (71.7)	0.75 (19)	HM1119-ND	9.10	7.59	7.00	1455B1002
	4.72 (120)	2.76 (70)	0.47 (12)	HM1120-ND	8.84	7.37	6.80	1455A1202
	4.72 (120)	2.82 (71.7)	0.75 (19)	HM1121-ND	9.60	8.01	7.39	1455B1202
	4.72 (120)	2.13 (54)	0.91 (23)	HM976-ND	10.41	8.81	7.64	1455C1202
	4.72 (120)	3.07 (78)	1.06 (27)	HM891-ND	13.15	11.14	9.65	1455J1202
	4.72 (120)	3.07 (78)	1.69 (43)	HM973-ND	13.76	11.64	10.09	1455K1202
	4.72 (120)	4.06 (103)	1.20 (30.5)	HM895-ND	15.77	13.35	11.57	1455L1202
	4.72 (120)	4.06 (103)	2.09 (53)	HM975-ND	15.77	13.35	11.57	1455N1202
	6.30 (160)	3.07 (78)	1.06 (27)	HM893-ND	15.19	12.87	11.15	1455J1602
	6.30 (160)	3.07 (78)	1.69 (43)	HM978-ND	15.77	13.35	11.57	1455K1602
	6.30 (160)	4.06 (103)	1.20 (30.5)	HM897-ND	18.27	15.47	13.40	1455L1602
	6.30 (160)	4.06 (103)	2.09 (53)	HM980-ND	20.10	16.75	15.47	1455N1602
	6.30 (160)	4.92 (125)	1.20 (30.5)	HM1122-ND	21.44	17.87	16.50	1455P1602
	6.30 (160)	4.92 (125)	2.03 (51.5)	HM1123-ND	23.54	19.62	18.11	1455Q1602
	6.30 (160)	6.50 (165)	2.1 (51.5)	HM904-ND	20.58	17.42	15.10	1455T1602
	8.66 (220)	4.92 (125)	1.20 (30.5)	HM1124-ND	24.68	20.57	18.99	1455P2202
	8.66 (220)	4.92 (125)	2.03 (51.5)	HM1125-ND	27.36	22.81	21.05	1455Q2202
	8.66 (220)	6.50 (165)	1.20 (30.5)	HM902-ND	23.71	20.07	17.40	1455R2202
	8.66 (220)	6.50 (165)	2.1 (51.5)	HM906-ND	24.12	20.42	17.69	1455T2202

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
Fig. 22 – 1457 Watertight Extruded Aluminum W/ Diecast Aluminum Panels								
Clear	3.15 (80)	2.32 (59)	1.21 (30.9)	HM1016-ND	22.74	18.96	17.50	1457C801
	4.73 (120)	2.32 (59)	1.21 (30.9)	HM1012-ND	25.34	21.12	19.50	1457C1201
	4.73 (120)	3.30 (84)	1.73 (44.1)	HM1020-ND	32.60	27.18	25.08	1457K1201
	4.73 (120)	4.09 (104)	2.15 (54.6)	HM1028-ND	36.20	30.18	27.85	1457N1201
	6.30 (160)	3.30 (84)	1.73 (44.1)	HM1024-ND	36.30	30.26	27.93	1457K1601
	6.30 (160)	4.09 (104)	2.15 (54.6)	HM1031-ND	39.96	33.31	30.74	1457N1601
Black	3.15 (80)	2.32 (59)	1.21 (30.9)	HM1017-ND	22.74	18.96	17.50	1457C801BK
	4.73 (120)	2.32 (59)	1.21 (30.9)	HM1013-ND	25.34	21.12	19.50	1457C1201BK
	4.73 (120)	3.30 (84)	1.73 (44.1)	HM1021-ND	32.60	27.18	25.08	1457K1201BK
	4.73 (120)	4.09 (104)	2.15 (54.6)	HM1167-ND	36.20	30.17	27.86	1457N1201BK
	6.30 (160)	3.30 (84)	1.73 (44.1)	HM1025-ND	36.30	30.26	27.93	1457K1601BK
	6.30 (160)	4.09 (104)	2.15 (54.6)	HM1032-ND	39.96	33.31	30.74	1457N1601BK
Fig. 22 – 1457 Watertight Extruded Aluminum With Diecast Aluminum Panels and Mounting Flange								
Clear	3.15 (80)	2.32 (59)	1.21 (30.9)	HM1018-ND	23.48	19.57	18.07	1457C802
	4.73 (120)	2.32 (59)	1.21 (30.9)	HM1014-ND	26.00	21.67	20.00	1457C1202
	4.73 (120)	3.30 (84)	1.73 (44.1)	HM1022-ND	33.40	27.84	25.70	1457K1202
	4.73 (120)	4.09 (104)	2.15 (54.6)	HM1029-ND	37.02	30.86	28.48	1457N1202
	6.30 (160)	3.30 (84)	1.73 (44.1)	HM1026-ND	37.20	31.01	28.62	1457K1602
	6.30 (160)	4.09 (104)	2.15 (54.6)	HM1033-ND	40.80	34.01	31.39	1457N1602
Black	3.15 (80)	2.32 (59)	1.21 (30.9)	HM1019-ND	23.48	19.57	18.07	1457C802BK
	4.73 (120)	2.32 (59)	1.21 (30.9)	HM1015-ND	26.00	21.67	20.00	1457C1202BK
	4.73 (120)	3.30 (84)	1.73 (44.1)	HM1023-ND	33.40	27.84	25.70	1457K1202BK
	4.73 (120)	4.09 (104)	2.15 (54.6)	HM1030-ND	37.02	30.86	28.48	1457N1202BK
	6.30 (160)	3.30 (84)	1.73 (44.1)	HM1027-ND	37.20	31.01	28.62	1457K1602BK
	6.30 (160)	4.09 (104)	2.15 (54.6)	HM1034-ND	40.80	34.01	31.39	1457N1602BK
NEW! Fig. 23 – 1550 Diecast Aluminum Alloy Enclosures NEW!								
Un-Painted	3.5(89)	1.4(35)	1.2(30)	HM1178-ND	6.80	5.67	5.24	1550A
	4.5(115)	2.5(64)	1.2(30)	HM1180-ND	8.10	6.76	6.24	1550B
	4.5(115)	3.5(90)	2.2(55)	HM1182-ND	11.60	9.67	8.93	1550C
	4.5(115)	2.5(64)	2.2(55)	HM1184-ND	10.00	8.34	7.70	1550D
	6.7(171)	4.8(121)	2.2(55)	HM1186-ND	17.70	14.76	13.62	1550E
	6.7(171)	4.8(121)	4.1(105)	HM1188-ND	21.60	18.01	16.62	1550F
	8.7(222)	5.7(146)	2.2(55)	HM1190-ND	23.60	19.67	18.16	1550G
	8.7(222)	5.7(146)	4.1(105)	HM1192-ND	32.40	27.01	24.93	1550H
	10.8(275)	6.9(175)	2.6(67)	HM1194-ND	34.00	28.34	26.16	1550J
	5.5(140)	4.0(102)	3.0(77)	HM1196-ND	14.60	12.17	11.24	1550K
	4.7(120)	4.0(100)	1.4(35)	HM1198-ND	10.60	8.84	8.16	1550M
	9.9(250)	9.9(250)	4.0(101)	HM1200-ND	55.00	45.84	42.31	1550N
	3.2(80)	2.2(55)	1.0(25)	HM1202-ND	7.10	5.92	5.47	1550P
	2.4(60)	2.2(55)	1.2(30)	HM1204-ND	6.10	5.09	4.70	1550Q
Black	3.5(89)	1.4(35)	1.2(30)	HM1179-ND	9.80	8.17	7.54	1550ABK
	4.5(115)	2.5(64)	1.2(30)	HM1181-ND	11.10	9.26	8.54	1550BBK
	4.5(115)	3.5(90)	2.2(55)	HM1183-ND	14.60	12.17	11.24	1550CBK
	4.5(115)	2.5(64)	2.2(55)	HM1185-ND	13.00	10.84	10.00	1550DBK
	6.7(171)	4.8(121)	2.2(55)	HM1187-ND	20.70	17.26	15.93	1550EBK
	6.7(171)	4.8(121)	4.1(105)	HM1189-ND	24.60	20.51	18.93	1550FBK
	8.7(222)	5.7(146)	2.2(55)	HM1191-ND	26.60	22.17	20.47	1550GBK
	8.7(222)	5.7(146)	4.1(105)	HM1193-ND	35.40	29.51	27.24	1550HBK
	10.8(275)	6.9(175)	2.6(67)	HM1195-ND	37.00	30.84	28.47	1550JBK
	5.5(140)	4.0(102)	3.0(77)	HM1197-ND	17.60	14.67	13.54	1550KBK
	4.7(120)	4.0(100)	1.4(35)	HM1199-ND	13.60	11.34	10.47	1550MBK
	9.9(250)	9.9(250)	4.0(101)	HM1201-ND	58.00	48.35	44.62	1550NBK
	3.2(80)	2.2(55)	1.0(25)	HM1203-ND	10.10	8.42	7.77	1550PBK
	2.4(60)	2.2(55)	1.2(30)	HM1205-ND	9.10	7.59	7.00	1550QBK

* With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment ◊ With Gaskets

(Continued)

Fig. 24 – Shallow Lid Enclosure - RL Series

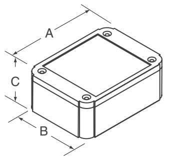

Designed to house P.C. boards, for hand-held use or wall mount. Molded in light gray, general purpose ABS plastic with a light texture. P.C. board standoffs are molded into both halves of the enclosure. Designed to meet IP54.

Fig. 25 – Deep Lid Enclosure - RL Series

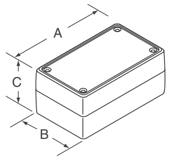

Designed to house P.C. boards, for hand-held use. Molded in light gray, general purpose ABS plastic with a light texture. P.C. board standoffs are molded into both halves of the enclosure. Designed to meet IP54.

Fig. 26 – Plastic Enclosure - RH Series

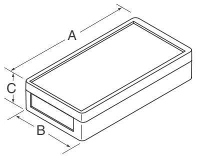

Designed to house P.C. boards for instrument use. Molded in light gray, general purpose ABS plastic with a light texture. Two part, clam shell construction. Front and rear panels are interchangeable and easily removable for modifications. Tongue and groove construction provides protection against dust and water. Designed to meet IP43.

Fig. 27 – Plastic Enclosure with Battery Door - RH Series

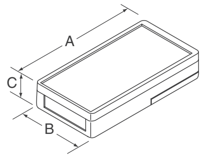

Electronic hand-held enclosures, ideally suited for mounting printed circuit boards. Lap joint construction provides protection against dust accumulation and splashing water. Molded in a general purpose ABS plastic with a light texture. Both top and bottom halves contain P.C. board standoffs molded in.

Fig. 28 – Plastic Enclosure - RM Series

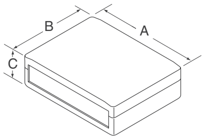

Electronic instrument enclosures, ideally suited for mounting printed circuit boards. Lap joint construction provides protection against dust accumulation and splashing water. Molded in a light gray general purpose ABS plastic with a light texture. Both top and bottom halves contain P.C. board standoffs molded in. Designed to meet IP65.

Fig. 29 – Watertight Plastic Enclosure - RP Series

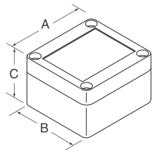

Ideally suited for mounting printed circuit boards or DIN rail mounted components. General purpose ABS plastic. Gasketed lid with two piece tongue and groove construction provides protection against access of oil, dust and water. Designed to meet IP65.

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
NEW! Fig. 23 – 1550 Watertight Diecast Aluminum Alloy Enclosures NEW!								
Un-painted	3.5(89)	1.4(35)	1.2(30)	HM1206-ND◊	7.20	6.01	5.54	1550WA
	4.5(115)	2.5(64)	1.2(30)	HM1208-ND◊	8.50	7.09	6.54	1550WB
	4.5(115)	3.5(90)	2.2(55)	HM1210-ND◊	12.00	10.01	9.24	1550WC
	4.5(115)	2.5(64)	2.2(55)	HM1212-ND◊	10.40	8.67	8.00	1550WD
	6.7(171)	4.8(121)	2.2(55)	HM1214-ND◊	18.00	15.01	13.85	1550WE
	6.7(171)	4.8(121)	4.1(105)	HM1216-ND◊	22.00	18.34	16.93	1550WF
	8.7(222)	5.7(146)	2.2(55)	HM1218-ND◊	24.00	20.01	18.47	1550WG
	8.7(222)	5.7(146)	4.1(105)	HM1220-ND◊	32.50	27.09	25.00	1550WH
	10.8(275)	6.9(175)	2.6(67)	HM1222-ND◊	35.00	29.18	26.93	1550WJ
	5.5(140)	4.0(102)	3.0(77)	HM1224-ND◊	15.00	12.51	11.54	1550WK
	4.7(120)	4.0(100)	1.4(35)	HM1226-ND◊	11.00	9.17	8.47	1550WM
	9.9(250)	9.9(250)	4.0(101)	HM1228-ND◊	56.00	46.68	43.08	1550WN
	3.2(80)	2.2(55)	1.0(25)	HM1230-ND◊	7.50	6.26	5.77	1550WP
	2.4(60)	2.2(55)	1.2(30)	HM1232-ND◊	6.50	5.42	5.00	1550WQ
Black	3.5(89)	1.4(35)	1.2(30)	HM1207-ND◊	10.20	8.51	7.85	1550WABK
	4.5(115)	2.5(64)	1.2(30)	HM1209-ND◊	11.50	9.59	8.85	1550WBBK
	4.5(115)	3.5(90)	2.2(55)	HM1211-ND◊	15.00	12.51	11.54	1550WCBK
	4.5(115)	2.5(64)	2.2(55)	HM1213-ND◊	13.40	11.17	10.31	1550WDBK
	6.7(171)	4.8(121)	2.2(55)	HM1215-ND◊	21.00	17.51	16.16	1550WEBK
	6.7(171)	4.8(121)	4.1(105)	HM1217-ND◊	25.00	20.84	19.24	1550WFBK
	8.7(222)	5.7(146)	2.2(55)	HM1219-ND◊	27.00	22.51	20.77	1550WGBK
	8.7(222)	5.7(146)	4.1(105)	HM1221-ND◊	35.50	29.59	27.31	1550WHBK
	10.8(275)	6.9(175)	2.6(67)	HM1223-ND◊	38.00	31.68	29.24	1550WJBK
	5.5(140)	4.0(102)	3.0(77)	HM1225-ND◊	18.00	15.01	13.85	1550WKBK
	4.7(120)	4.0(100)	1.4(35)	HM1227-ND◊	14.00	11.67	10.77	1550WMBK
	9.9(250)	9.9(250)	4.0(101)	HM1229-ND◊	59.00	49.18	45.39	1550WNBK
	3.2(80)	2.2(55)	1.0(25)	HM1231-ND◊	10.50	8.76	8.08	1550WPBK
	2.4(60)	2.2(55)	1.2(30)	HM1233-ND◊	9.50	7.92	7.31	1550WQBK
NEW! Fig. 23 – 1550Z Heavy Duty Watertight Diecast Aluminum Alloy Enclosures NEW!								
Un-painted	2.0(51)	1.8(45)	1.2(30)	HM180-ND	6.30	5.25	4.85	1550Z101
	3.6(90)	1.4(36)	1.2(30)	HM182-ND	6.60	5.50	5.08	1550Z102
	3.9(98)	2.5(64)	1.4(34)	HM184-ND	9.40	7.84	7.24	1550Z103
	2.5(64)	2.3(58)	1.4(35)	HM186-ND	7.00	5.84	5.39	1550Z104
	4.5(115)	2.6(65)	1.2(30)	HM198-ND	10.00	8.34	7.70	1550Z106
	4.9(125)	3.2(80)	1.6(41)	HM200-ND	12.60	10.50	9.70	1550Z107
	4.9(125)	3.2(80)	2.3(59)	HM188-ND	15.00	12.50	11.55	1550Z108
	5.9(150)	2.5(64)	1.4(36)	HM202-ND	14.00	11.67	10.78	1550Z109
	4.5(115)	2.6(65)	2.2(55)	HM218-ND	11.50	9.59	8.85	1550Z111
	4.5(115)	3.6(90)	2.2(55)	HM190-ND	16.00	13.34	12.32	1550Z113
	5.8(148)	4.3(108)	3.0(75)	HM206-ND	24.00	20.00	18.47	1550Z115
	6.3(160)	4.0(100)	2.4(60)	HM192-ND	24.00	20.00	18.47	1550Z116
	6.3(160)	4.0(100)	3.2(81)	HM194-ND	26.50	22.09	20.40	1550Z117
	6.7(171)	4.8(121)	2.2(55)	HM196-ND	25.00	20.84	19.24	1550Z120
	8.8(223)	5.8(147)	2.2(55)	HM208-ND	27.00	22.50	20.78	1550Z124
	4.8(121)	4.8(121)	4.0(102)	HM236-ND	28.00	23.34	21.55	1550Z137
	6.3(159)	6.3(159)	4.0(102)	HM238-ND	32.00	26.67	24.63	1550Z139
	8.8(223)	5.8(147)	3.2(83)	HM381-ND	32.00	26.67	24.63	1550Z220
Black	2.0(51)	1.8(45)	1.2(30)	HM181-ND	10.00	8.34	7.70	1550Z101BK
	3.6(90)	1.4(36)	1.2(30)	HM183-ND	11.00	9.17	8.47	1550Z102BK
	3.9(98)	2.5(64)	1.4(34)	HM185-ND	13.50	11.25	10.39	1550Z103BK
	2.5(64)	2.3(58)	1.4(35)	HM187-ND	11.00	9.17	8.47	1550Z104BK
	4.5(115)	2.6(65)	1.2(30)	HM199-ND	15.00	12.50	11.55	1500Z106BK
	4.9(125)	3.2(80)	1.6(41)	HM201-ND	18.00	15.00	13.86	1500Z107BK
	4.9(125)	3.2(80)	2.3(59)	HM189-ND	22.00	18.34	16.93	1550Z108BK
	5.9(150)	2.5(64)	1.4(36)	HM203-ND	21.00	17.50	16.16	1500Z109BK
	4.5(115)	2.6(65)	2.2(55)	HM205-ND	18.00	15.00	13.86	1550Z111BK
	4.5(115)	3.6(90)	2.2(55)	HM191-ND	23.00	19.17	17.70	1550Z113BK
	5.8(148)	4.3(108)	3.0(75)	HM207-ND	34.00	28.34	26.17	1550Z115BK
	6.3(160)	4.0(100)	2.4(60)	HM193-ND	33.00	27.50	25.40	1550Z116BK
	6.3(160)	4.0(100)	3.2(81)	HM195-ND	37.00	30.84	28.47	1550Z117BK
	6.7(171)	4.8(121)	2.2(55)	HM197-ND	32.00	26.67	24.63	1550Z120BK
	8.8(223)	5.8(147)	2.2(55)	HM219-ND	37.50	31.25	28.86	1550Z124BK
	4.8(121)	4.8(121)	4.0(102)	HM237-ND	38.00	31.67	29.24	1550Z137BK
	6.3(159)	6.3(159)	4.0(102)	HM239-ND	46.00	38.34	35.40	1550Z139BK
	8.8(223)	5.8(147)	3.2(83)	HM382-ND	46.00	38.34	35.40	1550Z220BK

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each			Hammond Part No.
	A	B	C		1	10	100	
RITEC								
Fig. 24 – Project ABS Plastic With Shallow Lid - RL Series								
Light Gray	3.15 (80)	2.36 (60)	1.18 (30)	HM1068-ND	2.40	2.00	1.85	RL6105
	3.15 (80)	2.36 (60)	1.57 (40)	HM1069-ND	2.64	2.20	2.04	RL6115
	4.92 (125)	3.15 (80)	1.38 (35)	HM1070-ND	3.36	2.80	2.59	RL6215
	4.92 (125)	3.15 (80)	1.97 (50)	HM1071-ND	3.70	3.09	2.85	RL6225
	4.92 (125)	3.94 (100)	2.36 (60)	HM1072-ND	5.04	4.20	3.88	RL6335
	4.92 (125)	3.94 (100)	3.54 (90)	HM1073-ND	6.54	5.45	5.04	RL6365
	5.91 (150)	3.94 (100)	2.36 (60)	HM1074-ND	5.54	4.62	4.27	RL6435
	5.91 (150)	3.94 (100)	3.54 (90)	HM1075-ND	7.60	6.34	5.85	RL6465
	6.89 (175)	4.92 (125)	2.76 (70)	HM1076-ND	8.38	6.99	6.45	RL6555
	6.89 (175)	4.92 (125)	3.94 (100)	HM1170-ND	11.82	9.85	9.10	RL6585
	7.87 (200)	5.91 (150)	2.76 (70)	HM1077-ND	10.20	8.50	7.85	RL6655
	7.87 (200)	5.91 (150)	3.94 (100)	HM1078-ND	13.66	11.39	10.52	RL6685
Fig. 25 – Hand-Held ABS Plastic With Deep Lid - RL Series								
Light Gray	4.09 (104)	2.56 (65)	1.57 (40)	HM1079-ND	3.70	3.09	2.85	RL6015
	5.67 (144)	2.56 (65)	1.57 (40)	HM1080-ND	4.22	3.52	3.25	RL6035
	7.01 (178)	4.13 (105)	1.57 (40)	HM1081-ND	7.10	5.92	5.47	RL6055
	8.07 (205)	4.13 (105)	1.57 (40)	HM1082-ND	7.92	6.60	6.10	RL6065
Fig. 26 – Hand-Held ABS Plastic - RH Series								
Light Gray	3.94 (100)	2.36 (60)	0.98 (25)	HM1083-ND	3.42	2.85	2.64	RH3115
	4.72 (120)	2.76 (70)	0.98 (25)	HM1084-ND	3.98	3.32	3.07	RH3135
	6.50 (165)	3.15 (80)	1.26 (32)	HM1085-ND	6.54	5.45	5.04	RH3155
	6.50 (165)	3.94 (100)	1.26 (32)	HM1086-ND	7.10	5.92	5.47	RH3165
	7.28 (185)	5.31 (135)	1.57 (40)	HM1087-ND	9.98	8.32	7.68	RH3185
	7.48 (190)	3.94 (100)	1.57 (40)	HM1088-ND	8.94	7.45	6.88	RH3195
Fig. 27 – Hand-Held ABS Plastic With Battery Door - RH Series								
Gray	5.12 (130)	2.68 (68)	0.98 (25)	HM1089-ND	4.48	3.74	3.45	RH3015
	5.12 (130)	2.68 (68)	0.98 (25)	HM1090-ND◊	6.30	5.25	4.85	RH3005
	4.72 (120)	2.76 (70)	1.18 (30)	HM1091-ND	5.26	4.39	4.05	RH3055
	4.72 (120)	2.76 (70)	1.18 (30)	HM1092-ND◊	7.36	6.14	5.67	RH3045
Fig. 28 – Instrument ABS Plastic - RM Series								
Gray	5.12 (130)	3.94 (100)	1.18 (30)	HM1093-ND	4.30	3.59	3.31	RM2015S
	5.12 (130)	3.94 (100)	1.97 (50)	HM1094-ND	6.18	5.15	4.76	RM2015M
	5.12 (130)	3.94 (100)	2.76 (70)	HM1095-ND	8.02	6.69	6.18	RM2015L
	7.48 (190)	5.51 (140)	1.18 (30)	HM1096-ND	7.10	5.92	5.47	RM2055S
	7.48 (190)	5.51 (140)	1.97 (50)	HM1097-ND	9.38	7.82	7.22	RM2055M
	7.48 (190)	5.51 (140)	2.76 (70)	HM1098-ND	11.30	9.42	8.70	RM2055L
	9.84 (250)	7.09 (180)	1.97 (50)	HM1099-ND	13.48	11.24	10.38	RM2095S
	9.84 (250)	7.09 (180)	2.95 (75)	HM1100-ND	14.66	12.22	11.29	RM2095M
	9.84 (250)	7.09 (180)	3.94 (100)	HM1101-ND	15.58	12.99	11.99	RM2095L
Fig. 29 – Watertight ABS Plastic - RP Series								
Light Gray	2.56 (65)	2.36 (60)	1.57 (40)	HM1102-ND	4.48	3.74	3.45	RP1025
	3.35 (85)	3.15 (80)	2.17 (55)	HM1103-ND	6.04	5.04	4.65	RP1065
	4.13 (105)	2.95 (75)	1.57 (40)	HM1104-ND	7.78	6.49	5.99	RP1085
	4.13 (105)	2.95 (75)	2.17 (55)	HM1105-ND	8.48	7.07	6.53	RP1095
	4.92 (125)	3.35 (85)	2.17 (55)	HM1106-ND	8.16	6.80	6.28	RP1135
	5.71 (145)	4.13 (105)	1.57 (40)	HM1107-ND	11.46	9.55	8.82	RP1205
	5.71 (145)	4.13 (105)	2.36 (60)	HM1108-ND	12.38	10.32	9.53	RP1215
	6.50 (165)	3.35 (85)	2.17 (55)	HM1109-ND	9.18	7.65	7.07	RP1175
	6.50 (165)	4.92 (125)	2.95 (75)	HM1110-ND	11.28	9.40	8.68	RP1245
	7.32 (186)	5.75 (146)	2.95 (75)	HM1111-ND	13.66	11.39	10.52	RP1285
	8.66 (220)	6.50 (165)	2.36 (60)	HM1112-ND	19.24	16.04	14.81	RP1455
	8.66 (220)	6.50 (165)	3.35 (85)	HM1113-ND	21.16	17.64	16.29	RP1465

* With mounting shelf ‡ With lid ground screw ∆ Flanged Lid
† Dimension “C” does not include lid height § Battery Compartment ◊ With Gaskets

NEW! ROSE+BOPLA Boxes and Enclosures

A Phoenix Mecano Company

Fig. 1

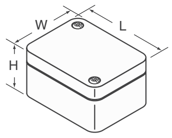

Fig. 2

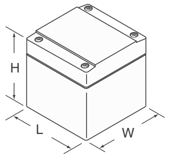

Fig. 3

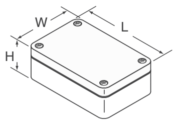

Fig. 4

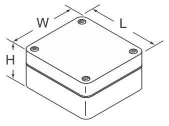

Fig. 5

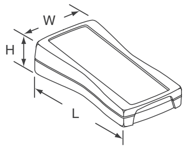

Fig. 6

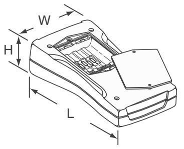

Fig. 7

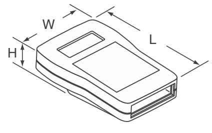

Fig. 8

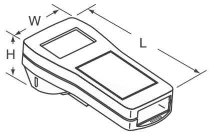

NEMA / Watertight Polycarbonate Enclosures

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Rose+Bopla Part No.
Fig. 1 — 02 Series							
Gray	2.55 (65)	1.96 (50)	1.37 (35)	902-1088-ND	11.61	9.83	2206000
Gray	3.22 (82)	3.14 (80)	2.16 (55)	902-1089-ND	17.09	14.47	2210000
Gray	4.72 (120)	3.14 (80)	2.16 (55)	902-1090-ND	18.68	15.81	2215000
Gray	4.72 (120)	3.14 (80)	3.34 (85)	902-1091-ND	22.00	18.62	2226000
Gray	4.80 (122)	4.72 (120)	3.35 (85)	902-1092-ND	27.43	23.21	2227000
Gray	6.29 (160)	4.72 (120)	3.54 (90)	902-1093-ND	31.64	26.77	2238000
Gray	7.87 (200)	4.72 (120)	2.95 (75)	902-1094-ND	34.23	28.97	2221000
Gray	7.87 (200)	4.72 (120)	3.54 (90)	902-1095-ND	36.13	30.58	2237000

NEMA / Watertight Aluminum Enclosures

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Rose+Bopla Part No.
Fig. 2 — Aluform Series — Membrane Keypad							
Gray	3.15 (80)	3.15 (80)	3.19 (81)	902-1000-ND	20.38	17.64	40808080
Gray	4.72 (120)	3.15 (80)	3.19 (81)	902-1001-ND	23.16	20.40	40812080
Gray	3.94 (100)	3.94 (100)	2.40 (61)	902-1002-ND	23.35	20.21	41010060
Gray	3.94 (100)	6.30 (160)	2.40 (61)	902-1003-ND	32.98	28.54	41016060
Gray	3.94 (100)	7.87 (200)	2.40 (61)	902-1004-ND	36.24	31.36	41020060
Gray	4.72 (120)	4.72 (120)	3.19 (81)	902-1005-ND	32.32	27.98	41212080
Gray	4.72 (120)	6.30 (160)	3.19 (81)	902-1006-ND	40.21	34.80	41216080
Gray	5.51 (140)	5.51 (140)	2.80 (71)	902-1007-ND	35.48	30.72	41414070
Gray	7.09 (180)	5.51 (140)	2.80 (71)	902-1008-ND	42.91	37.14	41418070
Gray	8.66 (220)	5.51 (140)	2.80 (71)	902-1009-ND	45.36	39.25	41422070
Gray	6.30 (160)	6.30 (160)	3.19 (81)	902-1010-ND	40.13	34.73	41616080
Gray	9.45 (240)	6.30 (160)	3.19 (81)	902-1011-ND	49.81	43.10	41624080
Gray	7.87 (200)	7.87 (200)	2.80 (71)	902-1012-ND	50.69	43.87	42020070
Gray	11.02 (280)	7.87 (200)	2.80 (71)	902-1013-ND	55.81	48.29	42028070
Fig. 3 — Diecast 01 Series							
Gray	2.28 (58)	2.52 (64)	1.34 (34)	902-1103-ND	18.14	16.03	10610030
Gray	5.91 (150)	2.52 (64)	1.34 (34)	902-1104-ND	23.13	20.45	10615030
Gray	2.95 (75)	3.15 (80)	2.24 (57)	902-1105-ND	18.84	16.65	10808060
Gray	4.92 (125)	3.15 (80)	2.24 (57)	902-1106-ND	23.79	21.03	10813060
Gray	6.89 (175)	3.15 (80)	2.24 (57)	902-1107-ND	30.62	27.07	10818060
Gray	4.80 (122)	4.72 (120)	3.19 (81)	902-1108-ND	45.78	40.47	11212080
Gray	8.66 (220)	4.72 (120)	3.19 (81)	902-1109-ND	57.12	50.50	11222080
Gray	10.24 (260)	6.30 (160)	3.58 (91)	902-1110-ND	77.10	68.16	11626090

Watertight Fiberglass Enclosures

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Rose+Bopla Part No.
Fig. 4 — 02 Series							
Gray	3.15 (80)	2.95 (75)	2.20 (56)	902-1014-ND	18.40	16.27	20808060
Gray	4.80 (122)	4.72 (120)	3.58 (91)	902-1015-ND	30.85	27.24	21212090
Gray	8.66 (220)	4.72 (120)	3.58 (91)	902-1016-ND	36.10	31.91	21222090
Gray	6.30 (160)	6.30 (160)	3.58 (91)	902-1017-ND	40.83	36.09	21616090
Gray	10.24 (260)	6.30 (160)	3.58 (91)	902-1018-ND	46.96	41.52	21626090
Gray	14.17 (360)	6.30 (160)	3.58 (91)	902-1019-ND	62.73	55.46	21636090

Handheld Enclosures

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Rose+Bopla Part No.
Fig. 5 — BOS Streamline 400 Series							
Gray	4.70 (119.3)	2.55 (64.9)	1.04 (26.5)	902-1034-ND	17.27	15.72	BS400F7024
Fig. 6 — BOS Streamline 403 Series							
Gray	4.70 (119.3)	2.55 (64.9)	1.04 (26.5)	902-1035-ND	24.09	21.92	BS403F7024
Fig. 5 — BOS Streamline 600 Series							
Gray	6.27 (159.4)	3.07 (77.9)	1.32 (33.5)	902-1036-ND	20.15	18.34	BS600F7024
Fig. 6 — BOS Streamline 603 Series							
Gray	6.27 (159.4)	3.07 (77.9)	1.32 (33.5)	902-1037-ND	28.79	26.20	BS603F7024
Fig. 5 — BOS Streamline 800 Series							
Gray	8.24 (209.3)	3.86 (98)	1.37 (34.8)	902-1038-ND	25.91	23.58	BS800F7024
Fig. 6 — BOS Streamline 803 Series							
Gray	8.24 (209.3)	3.86 (98)	1.37 (34.8)	902-1039-ND	34.54	31.44	BS803F7024
Accessories							
Gaskets for BS 400, Yellow				902-1040-ND	13.63	12.41	BS400DIRAL1003
Gaskets for BS 400, Blue				902-1041-ND	13.63	12.41	BS400DIRAL5005
Gaskets for BS 400, Dark Gray				902-1042-ND	13.63	12.41	BS400DIRAL7024
Gasket for BS 600, Yellow				902-1043-ND	14.39	13.10	BS600DIRAL1003
Gasket for BS 600, Blue				902-1044-ND	14.39	13.10	BS600DIRAL5005
Gasket for BS 600, Dark Gray				902-1045-ND	14.39	13.10	BS600DIRAL7024
Gasket for BS 800, Yellow				902-1046-ND	15.17	13.81	BS800DIRAL1003
Gasket for BS 800, Blue				902-1047-ND	15.17	13.81	BS800DIRAL5005
Gasket for BS 800, Dark Gray				902-1048-ND	15.17	13.81	BS800DIRAL7024
Screw Covers, Dark Gray				902-1049-ND	7.88	7.17	BS-SA7024

Color	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	Rose+Bopla Part No.
Fig. 7 — TG 130 Series							
Blue-Green	4.92 (125)	3.15 (80)	1.44 (37)	902-1064-ND†	10.83	9.38	270102000
Blue-Green	4.92 (125)	3.15 (80)	1.44 (37)	902-1065-ND‡	10.83	9.38	270102010

† Flat Open ‡ Flat Closed § Deep Open ▲ Deep Closed ▼ Open ∆ Closed
◊ With Display Window • Without Display Opening ★ With Keypad Area

(Continued)

Fig. 9

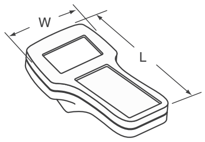

Fig. 10

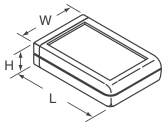

902-1025-ND Shown

Fig. 11

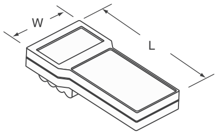

902-1033-ND Shown

Fig. 12

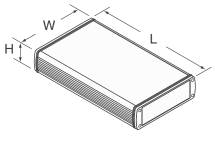

Fig. 13

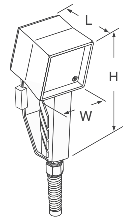

Fig. 14

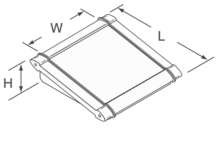

Fig. 15

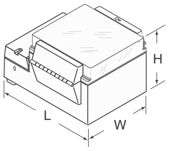

Fig. 16

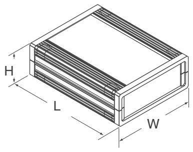

Fig. 17

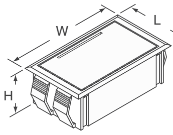

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
	L	W	H		1	10	
Blue-Green	4.92 (125)	3.15 (80)	1.84 (47)	902-1066-ND§	12.78	11.06	270102100
Blue-Green	4.92 (125)	3.15 (80)	1.84 (47)	902-1067-ND▲	10.45	9.04	270102110
Fig. 8 — TG 180/230 Series							
Blue-Green	7.09 (180)	3.31 (84)	2.07 (52)	902-1068-ND▼	19.36	16.76	270104000
Blue-Green	7.09 (180)	3.31 (84)	2.07 (52)	902-1069-NDΔ	16.52	14.29	270104010
Blue-Green	9.01 (229)	3.82 (97)	2.07 (52)	902-1070-ND▼	20.19	17.47	270106000
Blue-Green	9.01 (229)	3.82 (97)	2.07 (52)	902-1071-NDΔ	17.01	14.72	270106010
Fig. 9 — BG180/220 Series							
Gray	7.36 (187)	4.17 (106)	—	902-1072-ND▼	14.40	12.46	270202000
Gray	7.36 (187)	4.17 (106)	—	902-1073-NDΔ	14.22	12.31	270202010
Gray	8.66 (220)	4.57 (116)	—	902-1074-ND▼	15.28	13.22	270204000
Gray	8.66 (220)	4.57 (116)	—	902-1075-NDΔ	15.25	13.19	270204010
Fig. 10 — DATABOS Series							
Black	3.94 (100)	2.56 (65)	0.94 (24)	902-1025-ND	6.00	5.20	BOS 400
Black	4.72 (120)	2.36 (60)	0.98 (25)	902-1026-ND◊	9.76	8.45	BOS 501
Black	4.72 (120)	2.36 (60)	0.98 (25)	902-1027-ND•	8.87	7.68	BOS 502
Black	6.18 (157)	3.31 (84)	1.18 (30)	902-1028-ND◊	13.82	11.96	BOS 751
Black	6.18 (157)	3.31 (84)	1.18 (30)	902-1029-ND★	12.90	11.17	BOS 752
Black	7.72 (196)	3.94 (100)	1.57 (40)	902-1030-ND◊	18.45	15.97	BOS 801
Black	7.72 (196)	3.94 (100)	1.57 (40)	902-1031-ND•	17.72	15.34	BOS 802
Fig. 11 — DATABOS Series							
Gray	8.31 (211)	3.94 (100)	1.02 (26)	902-1032-ND	24.07	20.83	BOS 900
Gray	8.31 (211)	3.94 (100)	1.02 (26)	902-1033-ND	31.08	26.90	BOS 902

† Flat Open ‡ Flat Closed § Deep Open ▲ Deep Closed ▼ Open Δ Closed
◊ With Display Window • Without Display Opening ★ With Keypad Area

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
	L	W	H		1	10	
Fig. 12 — Alubos 1600-100 Sets — Membrane Keypad							
Black	3.94 (100)	6.64 (169)	2.05 (52)	902-1060-ND	61.64	56.58	ABP16000100SET
Black	7.87 (200)	6.65 (169)	2.05 (52)	902-1061-ND	82.03	75.29	ABP16000200SET
Black	5.91 (150)	5.43 (138)	1.34 (34)	902-1062-ND	52.72	48.39	ABP13000150SET
Black	7.87 (200)	6.65 (169)	3.23 (82)	902-1063-ND	80.96	74.31	ABP16800200SET
Fig. 12 — Alubos 600 Sets — Membrane Keypad							
Black	3.94 (100)	2.24 (57)	1.26 (32)	902-1057-ND	27.06	24.84	ABP6000100SET
Black	7.87 (200)	3.23 (82)	1.26 (32)	902-1058-ND	42.06	38.61	ABP8000200SET
Black	7.87 (200)	4.17 (106)	1.26 (32)	902-1059-ND	45.87	42.10	ABP10000200SET

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
	L	W	H		1	10	
Fig. 13 — 2921 Series — Mobile Control Units							
Yellow	3.35 (85)	3.35 (85)	8.11 (206)	902-1020-ND	41.96	36.31	292110000
Yellow	3.35 (85)	4.53 (115)	8.11 (206)	902-1021-ND	42.95	37.17	292120000
Yellow	3.35 (85)	3.35 (85)	9.29 (236)	902-1022-ND	44.04	38.11	292130000
Yellow	3.35 (85)	6.30 (160)	8.90 (226)	902-1023-ND	45.75	39.58	292140000
Yellow	3.35 (85)	4.13 (105)	11.06 (281)	902-1024-ND	36.42	31.52	292150000

Aluminum Enclosures

Color	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
	L	W	H		1	10	
Fig. 14 — Alu-Topline Sets — Aluminum Desktop Enclosures							
Gray, Natural	5.90 (150)	7.24 (183.8)	2.09 (53.2)	902-1096-ND	47.04	39.81	ATPH18500150SET
Gray, Natural	7.87 (200)	7.24 (183.8)	2.09 (53.2)	902-1097-ND	51.66	43.72	ATPH18500200SET
Gray, Natural	7.87 (200)	7.24 (183.8)	2.68 (68.2)	902-1098-ND	56.47	47.78	ATPH18650200SET
Gray, Natural	9.84 (250)	7.24 (183.8)	2.68 (68.2)	902-1099-ND	62.73	53.08	ATPH18650250SET
Accessories for Alu-Topline Sets Desktop Enclosures							
Wall Bracket 5.90 (150) Long				902-1100-ND	21.14	17.89	AT180000150WB
Wall Bracket 7.87 (200) Long				902-1101-ND	22.10	18.71	AT180000200WB
Wall Bracket 9.84 (250) Long				902-1102-ND	23.12	19.56	AT180000250WB

Instrumentation Enclosures

Color	Dimensions — Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
	L	W	H		1	10	
Fig. 15 — RCP Series — Hinged Cover							
Gray	7.32 (186)	5.16 (131)	4.05 (103)	902-1050-ND	36.71	33.42	RCP 1300
Gray	6.34 (161)	6.53 (166)	3.66 (93)	902-1051-ND	35.35	32.16	RCP 1600
Gray	6.34 (161)	6.53 (166)	4.76 (121)	902-1052-ND	37.63	34.24	RCP 1700
Gray	7.28 (185)	8.38 (213)	4.11 (104)	902-1053-ND	39.27	35.74	RCP 2000VO
Gray	8.54 (217)	10.12 (257)	5.22 (132)	902-1054-ND	57.27	52.12	RCP 2500
Gray	11.06 (281)	11.65 (296)	6.22 (158)	902-1055-ND	72.48	65.95	RCP 3500
Gray	12.54 (319)	14.31 (363)	5.90 (150)	902-1056-ND	80.14	71.23	RCP 4000
Fig. 16 — Ultramas Sets — Desk/Wall Enclosures							
Gray	7.83 (198.9)	6.20 (157.5)	2.45 (62.2)	902-1076-ND	21.12	17.87	UM32009SET
Gray	7.83 (198.9)	8.83 (224.2)	2.85 (72.4)	902-1077-ND	34.91	29.54	UM52011SHORTSET
Gray	7.83 (198.9)	6.20 (157.5)	4.03 (102.4)	902-1078-ND	47.04	39.81	UM52011TALLSET
Gray	7.83 (198.9)	6.20 (157.5)	2.85 (72.4)	902-1079-ND	34.91	29.54	UM52011LSET
Gray	7.83 (198.9)	6.20 (157.5)	4.03 (102.4)	902-1080-ND	46.65	39.48	UM52020LSET
Gray	7.83 (198.9)	11.45 (290.9)	2.45 (62.2)	902-1081-ND	38.36	32.47	UM62009SHORTSET
Gray	7.83 (198.9)	6.20 (157.5)	3.63 (92.2)	902-1082-ND	47.53	40.22	UM62009TALLSET
Gray	7.83 (198.9)	11.45 (290.9)	2.45 (62.2)	902-1083-ND	26.86	22.73	UM62009LSET
Gray	10.19 (258.9)	11.45 (290.9)	2.45 (62.2)	902-1084-ND	38.36	32.47	UM62609LSET

Accessories

Color	Battery Size	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Rose+Bopla Part No.
		L	W	H		1	10	
Fig. 17 — Battery Compartments								
Black	(1) 9V or (2) AA	1.46 (37)	2.56 (65)	0.85 (21.5)	902-1085-ND	5.82	5.03	BE 30
Black	(2) 9V or (4) AA	2.56 (65)	2.56 (65)	0.85 (21.5)	902-1086-ND	7.11	6.15	BE 60
Universal Din Rail Holder								
2 DIN Rail Holders and 4 Self-Tapping Screws					902-1087-ND	5.80	5.16	TSH 35

3M Bumpons™ Protective Products

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
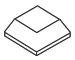	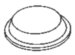	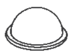	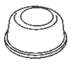	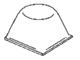
Tapered Square	**Cylindrical**	**Hemisphere**	**Hemisphere**	**Cylindrical**

Fig.	Dimension - Inch (mm) W	H	Digi-Key Part No.*	Pricing		
1	.50 (12.70)	.12 (3.05)	SJ5508-☐-ND	7.68/64	65.80/640	87.73/1,024
	.50 (12.70)	.23 (5.84)	SJ5518-☐-ND‡	11.98/64	102.66/640	136.88/1,024
	.81 (20.57)	.30 (7.62)	SJ5523-☐-ND‡	1.13/4	8.76/36	102.15/504
	.40 (10.16)	10 (2.54)	SJ5007-0-ND	5.43/54	46.58/540	77.63/1,080
2	.50 (12.70)	.14 (3.56)	SJ5012-☐-ND	6.48/56	55.52/560	83.29/1,008
	.50 (12.70)	.14 (3.56)	SJ5312-7-ND†	6.48/56	55.52/560	83.29/1,008
	.312 (7.92)	.215 (5.46)	SJ5744-0-ND	19.97/144	85.58/720	142.63/1,440
	.375 (9.53)	.135 (3.43)	SJ5745-0-ND	32.71/144	140.21/720	233.68/1,440
	.312 (7.92)	.200 (5.08)	SJ5746-0-ND	18.57/144	79.60/720	132.66/1,440
	.312 (7.92)	.210 (5.33)	SJ5747-0-ND	19.96/144	85.54/720	142.56/1,440
	.375 (9.53)	.250 (6.35)	SJ5749-0-ND	22.71/96	97.34/480	162.24/960
	.375 (9.53)	.311 (7.90)	SJ5750-0-ND	11.37/48	97.43/480	202.98/1,200
3	.63 (16.00)	.31 (7.87)	SJ5027-☐-ND	11.63/40	129.62/520	149.06/1,040
	.44 (11.18)	.20 (5.08)	SJ5303-7-ND†	6.01/56	51.53/560	77.29/1,008
	.44 (11.18)	.20 (5.08)	SJ5003-☐-ND	6.01/56	51.53/560	77.29/1,008
	.75 (19.05)	.38 (9.65)	SJ5017-☐-ND	14.90/40	166.03/520	190.94/1,040
	.375 (9.53)	.235 (5.97)	SJ5748-0-ND	22.22/96	95.21/480	158.69/960
4	.88 (22.35)	.40 (10.16)	SJ5009-☐-ND	11.65/24	29.97/72	174.81/504
5	.81 (20.57)	.52 (13.21)	SJ5514-☐-ND	2.65/4	20.48/36	238.88/504

* Use numbers to designate color choice: 9–white, 8–gray, 1–brown (‡ not available in brown), 0–black, in the ☐ of each part number. † Transparent

Description	Digi-Key Part No.	Price Each 1	10	25	3M Part No.
Bumpon Foot/Spacer/Cushion Variety Pack (36 pcs.)	SJ5751-ND	16.65	14.36	13.64	70-0064-3160-8

3M Scotch-Brite™ High Performance Cloth 2011

2011 high performance cloth provides excellent dust, oil and water pickup with minimal linting. This is a versatile non-scratching tool to be used on a wide variety of substrates including stainless steel, chrome, enamel, painted surfaces, plastics, glass, computer monitors, wood, marble and other delicate surfaces. It can be used dry or damp, with or without cleaning chemicals.

Description	Digi-Key Part No.	Price Each 1	5	10	25	3M Part No.
Blue, High Performance Cloth, 32 x 36cm	3M2011B-ND	4.63	4.17	3.70	3.24	2011-B
White, High Performance Cloth, 32 x 36cm	3M2011W-ND	4.63	4.17	3.70	3.24	2011-W

3M Scotch-Seal™ Tamper Proof Sealant 1252

Scotch-Seal Tamper Proof Sealant 1252 is a fast drying, anti-tamper sealer which is fire retardant.

It has been effectively used in the Electronics Industry to protect settings and calibrations of electronic equipment against tampering, to seal electronic components between stages of assembly, to aid in the visual inspection of subassembly components, equipment and parts which are restricted to adjustment, alteration, or access by qualified personnel.

Description	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
Tamper Proof Sealant 5 oz. Tube	3M6495-ND	17.91	15.65	14.36	1252

3M Command™ Adhesive Strips

Features: • Holds strongly • Removes cleanly with no surface damage • Works great for prototyping

Description	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
8 Small, 4 Medium and 4 Large Strips per pack	3M6452-ND	4.03	3.63	3.22	17200

3M Bumpons™ Protective Products — Resilient Rollstock

With Bumpon resilient rollstock, you can customize non-skid feet, spacers or cushions that help protect from skidding and vibration. Help protect surfaces from marring, staining or abrasion with this high-performance cushioning material that can be die cut by a converter to fit virtually any shape or application. Adhesive options: Natural rubber, an effective solution for a wide variety of application and acrylic, an excellent choice when there will be exposure to higher temperatures.

Specifications:
• Material: Pigmented polyurethane • Hardness: Shore A 70 for SJ-5800, SJ-6000 and SJ-6200 series. Shore A 36 for SJ-5900 series.

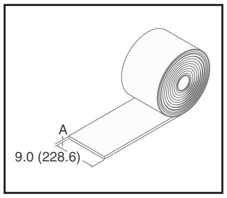

Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
Clear, 72 Yard Roll	0.032 (0.8)	SJ5632-ND•	1881.66
Clear, 1 Linear Foot	0.032 (0.8)	SJ5632-1FT-ND•	14.00
Clear, 36 Yard Roll	0.063 (1.6)	SJ5616-ND•	1001.48
Clear, 1 Linear Foot	0.063 (1.6)	SJ5616-1FT-ND•	14.90
Clear, 36 Yard Roll	0.126 (3.2)	SJ5608-ND•	1707.64
Black, 72 Yard Roll	0.032 (0.8)	SJ5832-ND	1387.13
Black, 1 Linear Foot	0.032 (0.8)	SJ5832-1FT-ND	10.32
Black, 36 Yard Roll	0.063 (1.6)	SJ5816-ND	999.55
Black, 1 Linear Foot	0.063 (1.6)	SJ5816-1FT-ND	14.87
Black, 36 Yard Roll	0.126 (3.2)	SJ5808-ND	1258.89
Black, 1 Linear Foot	0.126 (3.2)	SJ5808-1FT-ND	18.73
Black, 36 Yard Roll	0.063 (1.6)	SJ5916-ND•	927.68
Black, 1 Linear Foot	0.063 (1.6)	SJ5916-1FT-ND•	13.80
Black, 36 Yard Roll	0.126 (3.2)	SJ5908-ND•	1178.94
Black, 1 Linear Foot	0.126 (3.2)	SJ5908-1FT-ND•	17.54
Black, 18 Yard Roll	0.252 (6.4)	SJ5904-ND•	1025.33

• Acrylic Adhesive

3M Clean-Walk Mats

Clean-Walk Unframed Mats (5830 Series) are multi-sheeted adhesive systems that remove dirt and contaminants from shoe soles, wheels and other passing objects on contact. The pads offer 30 or 60 removable adhesive polyethylene sheets that lock dirt in place until discarded. The 5830 Series is ideal for smooth floor surfaces such as concrete.

Applications: • Prevents contamination between high traffic production areas and office environments • Ideal for fabricated metal shops, machinery and electronics equipment operations, printing and publishing facilities, construction and remodeling projects, health care facilities, warehouses, office, commercial and government buildings. • For use in clean room entrances

Series	Description	Standard Size	Sheets per Mat	Digi-Key Part No.	Price Each	3M Part No.
5830	Unframed – White	18" x 36"	30	3M6426-ND	198.31	5830-WHITE-18"X36"

3M Scotch-Weld™ Hot Melt Bonding Systems

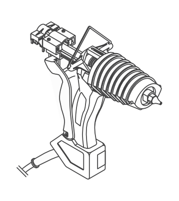

3M™ Scotch-Weld Hot Melt Adhesives and Applicators are advanced hand-held systems to help you improve productivity, lower cost, and minimize waste.

Adhesives are 100% solids thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden, and reach bond strength in seconds.

Description	Adhesive Size Dia. x Length (In.)	Digi-Key Part No.	Price Each	3M Part No.
Applicators				
Hot Melt Applicator TC	5/8 x 2	3M6424-ND	139.96	POLYGUN-TCW/.090"TIP
Hot Melt Applicator TC w/Quadtrack™ Converter	5/8 x 8	3M6425-ND	164.18	POLYGUN-TCW/CONVERTOR
Hot Melt Applicator EC	5/8 x 8	3M6423-ND	442.92	POLYGUN-EC JET MELT APPLI

Description	Diameter x Length (In.)	Digi-Key Part No.	Price Each 5	10	25	100	3M Part No.
Adhesives — RoHS Compliant							
Electrical potting, low viscosity, hi-temp. resistant	5/8 x 2	3M6414-ND	.86	.74	.55	.46	3797TC
Hi-temp. resistant, non-corrosive, bonds polyolefins	5/8 x 8	3M6415-ND†	2.87	2.65	1.99	1.64	3748-V-O-Q-5/8"X8"
Hi-temp. resistant, non-corrosive, bonds polyolefins	5/8 x 2	3M6416-ND†	.83	.72	.54	.44	3748 VO-TC
Temp. resistant, non-corrosive, bonds polyolefins	5/8 x 8	3M6417-ND	2.83	2.61	1.96	1.61	3748-Q-5/8"X8"
Temp. resistant, non-corrosive, bonds polyolefins	5/8 x 2	3M6418-ND	.82	.71	.53	.44	3748-TC-5/8"X2"
Bonds a variety of plastics	5/8 x 8	3M6419-ND	2.43	2.25	1.69	1.39	3764-Q
Bonds a variety of plastics	5/8 x 2	3M6420-ND	.71	.61	.46	.38	3764-TC
Hi-temp. resistant	5/8 x 8	3M6421-ND	4.59	4.24	3.18	2.62	3779-Q
Hi-temp. resistant	5/8 x 2	3M6422-ND	1.38	1.18	.89	.73	3779-TC

† Meets UL 1410

3M Foil, Electrical, and Specialty Tapes

Please see Digi-Key's website for detailed specifications and diagrams.

Description	Dimensions Width x Length	Digi-Key Part No.	Price Each		3M Part No.
			1	5	
3M Laminating Adhesives					
Adhesive Transfer Tape, 100MP Adhesive, Clear, .005", Dual-linered for Prototyping	8.5" x 8.5"	3M6446-ND	8.13	6.50	F9469PC
Adhesive Transfer Tape, 100MP Adhesive, Clear, .005"	3/8" x 60 yds.	3M9039-ND	23.25	18.60	F9469PC 3/8"X60YD
Adhesive Transfer Tape, 200MP Adhesive, Clear, .005", Dual-linered for Prototyping	8.5" x 8.5"	3M6447-ND	6.63	5.30	468MP
Adhesive Transfer Tape, 200MP Adhesive, Clear, .005"	3/4" x 60 yds.	3M9040-ND	22.68	18.14	468MP 3/4"X60YD
Adhesive Transfer Tape, 300LSE Adhesive, Clear, 5.0 mils	4" x 60 yds.	SCP284-ND	100.51	89.12	9472LE 4"X60YD
Double Coated Tape, 375 Adhesive, Translucent, 7.5 mils	19mm x 50M	3M9042-ND	17.68	14.14	9086 19MMX50M
Double Coated Tape, 375 Adhesive, White, 10.2 mils	19mm x 50M	3M9043-ND	21.20	16.96	9087 19MMX50M
Double Coated Tape, 375 Adhesive, Clear, 8.3 mils	19mm x 50M	3M9044-ND	19.05	15.24	9088 19MMX50M
Double Coated Tape, 200MP Adhesive, Clear, .0057", Dual-linered for Prototyping	8.5" x 8.5"	3M6448-ND	30.63	24.50	9495MP
Double Coated Tape, 300LSE Adhesive, Clear, .0067", Dual-linered for Prototyping	8.5" x 8.5"	3M6449-ND	7.75	6.20	9495LE
Double Coated Tape, 300LSE Adhesive, Clear, .0034"	3/4" x 60 yds.	3M9041-ND	35.58	28.46	9495LE 3/4"X60YD
Double Coated Tape, 300MP Adhesive, Tan, .0055", Dual-linered for Prototyping	8.5" x 8.5"	3M6450-ND	6.25	5.00	9786
Double Coated Tape, 300MP Adhesive, Clear, .0067", Dual-linered for Prototyping	8.5" x 8.5"	3M6451-ND	7.00	5.60	9490LE
Aluminum Foil Tape					
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	1" x 60 yds.	3M5613-ND	24.93	21.37	425-1"X60YD-BULK
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	3" x 60 yds.	3M5614-ND	77.04	66.03	425-3"X60YD-BULK
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	2" x 60 yds.	3M5615-ND	75.90	65.06	427-2"X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective	1" x 60 yds.	3M5617-ND	79.70	68.31	433-1"X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective	2" x 60 yds.	3M5616-ND	159.39	136.62	433-2"X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective, Linered	1" x 60 yds.	3M5632-ND	91.16	78.14	433L-1"X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective, Linered	2" x 60 yds.	3M5631-ND	182.30	156.26	433L-2"X60YD
Aluminum Foil Tape, 5.0-mil, Acrylic Adhesive, Thermally Conductive, Heat and Light Reflective	2" x 60 yds.	3M5633-ND	96.10	82.37	438
Double Coated Tape					
Attachment Tape, .045", Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/4" x 20 yds.	3M6411-ND†	21.96	—	06386
Attachment Tape, .045", Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/2" x 5 yds.	3M6410-ND	12.22	—	06384
Attachment Tape, .045", Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/2" x 20 yds.	3M6408-ND	38.36	—	06382
Attachment Tape, .045", Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	7/8" x 20 yds.	3M6409-ND	47.29	—	06383
Attachment Tape, .060", Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	7/8" x 10 yds.	3M6412-ND	34.53	—	06395
Attachment Tape, .090", Acrylic Plus Adhesive, High Performance, Gray, Automotive Grade	1/2" x 10 yds.	3M6413-ND	22.84	—	06394
Double Coated Foam Tape, .125", Pressure Sensitive Acrylic Adhesive, Off-White Urethane Foam	1" x 36 yds.	3M4008-ND	72.52	—	4008 1"
Double Coated Foam Tape, .062", Pressure Sensitive Acrylic Adhesive, Off-White Urethane Foam	1" x 36 yds.	3M40161-ND	48.81	—	4016 1"
Double Coated Foam Tape, .062", Pressure Sensitive Acrylic Adhesive, Neutral Urethane Foam	1" x 36 yds.	3M4026-ND	41.94	—	4026 1"
Double Coated Foam Tape, .125", Pressure Sensitive Acrylic Adhesive, Black Vinyl Foam	1" x 36 yds.	3M44081-ND	100.72	—	4408 1"
Double Coated Foam Tape, .062", Pressure Sensitive Acrylic Adhesive, Black Vinyl Foam	1" x 36 yds.	3M44161B-ND	72.18	—	4416 1" BLACK
Double Coated Foam Tape, .062", Pressure Sensitive Acrylic Adhesive, White Vinyl Foam	1" x 36 yds.	3M44161W-ND	77.37	—	4416 1" WHITE
Double Coated Foam Tape, .045", Pressure Sensitive VHB™ Acrylic Adhesive, Dark Gray	1/2" x 36 yds.	3M6462-ND	34.25	29.36	4611 1/2 IN X 36 YD
Double Coated Foam Tape, .020", Pressure Sensitive VHB Acrylic Adhesive, Clear	1" x 72 yds.	3M6463-ND	169.80	145.55	4905-1"X72YD
Double Coated Foam Tape, .020", Pressure Sensitive VHB Acrylic Adhesive, Clear	1/2" x 72 yds.	3M6464-ND	90.77	77.81	4905-1/2"X72YD
Double Coated Foam Tape, .020", Pressure Sensitive VHB Acrylic Adhesive, Clear	3/4" x 72 yds.	3M6465-ND	121.03	103.74	4905-3/4"X72YD
Double Coated Foam Tape, .040", Pressure Sensitive VHB Acrylic Adhesive, Clear (small pack)	1/2" x 36 yds.	3M6466-ND	53.73	46.05	4910 -1/2"X36YD
Double Coated Foam Tape, .040", Pressure Sensitive VHB Acrylic Adhesive, Clear	1/2" x 36 yds.	3M6467-ND	47.88	41.04	4910-CLEAR-1/2"X36YD
Double Coated Foam Tape, .040", Pressure Sensitive VHB Acrylic Adhesive, Clear	3/4" x 15 yds.	3M5648-ND	30.59	26.22	4910 3/4"X15YD
Double Coated Foam Tape, .040", Pressure Sensitive VHB Acrylic Adhesive, Clear	1" x 36 yds.	3M5650-ND	79.80	68.40	4910-CLEAR-1"X36YD
Double Coated Foam Tape, .045", Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	1/2" x 36 yds.	3M5625-ND	69.95	59.96	4950-1/2"X36YD-SMPK
Double Coated Foam Tape, .045", Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	3/4" x 36 yds.	3M5626-ND	93.29	79.97	4950-3/4"X36YD-SMPK
Double Coated Foam Tape, .045", Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	1" x 36 yds.	3M5627-ND	116.55	99.90	4950-1"X36YD-SMPK
Double Coated Foam Tape, .045", Pressure Sensitive VHB Modified Acrylic Adhesive, Black	1/2" x 36 yds.	3M6468-ND	57.31	49.13	5952-1/2"X36YD
Double Coated Foam Tape, .045", Pressure Sensitive VHB Modified Acrylic Adhesive, Black	3/4" x 15 yds.	3M5647-ND	30.59	26.22	5952 3/4"X15YD
Double Coated Foam Tape, .045", Pressure Sensitive VHB Modified Acrylic Adhesive, Black	1" x 36 yds.	3M5649-ND	95.53	81.89	5952 1"X36YD
Duct Tape					
Duct Tape Clean Remove, 12.6-mil, Slate Blue Polyethylene Film, Synthetic Rubber Adhesive	1.88" x 60 yds.	3M5630-ND	15.09	12.93	8979-BLUE-48MMX54.8M
Duct Tape Industrial Grade, 10.7-mil, Black Polyethylene Film, Rubber Adhesive	1.88" x 60 yds.	3M69692B-ND	14.23	—	6969 2" BLACK
Duct Tape Industrial Grade, 10.7-mil, Silver Polyethylene Film, Rubber Adhesive	1.88" x 60 yds.	3M69692S-ND	14.23	—	6969 2" SILVER
Electrical Tape – Black					
Vinyl Mastic Pad, All-Weather Grade, 125-mil, Black Vinyl Film, Rubber Mastic	3-1/4" x 4-1/2"	3M11008-ND	4.32	—	2200 (3-1/4"X4-1/2")
Electrical Tape, General Purpose, 7-mil, Black PVC, Flame-Retardant	3/4" x 60'	3M1700-ND	1.26	—	1700 TEMFLEX
Electrical Tape, Premium Grade, All-Weather, 7-mil, Black PVC, Pressure-Sensitive Adhesive	3/4" x 66'	3M33+A-ND	6.06	—	33+ SUPER (3/4"X66')
Electrical Tape, Premium Grade, All-Weather, 8.5-mil, Black PVC, Pressure-Sensitive Adhesive	3/4" x 66'	3M88A-ND	6.80	—	88 SUPER (3/4"X66')
Electrical Color Coding Tape – Colored					
Electrical Color Coding Tape, Red PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-RD-ND	5.62	—	35 RED (3/4"X66')
Electrical Color Coding Tape, Orange PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-OR-ND	5.62	—	35 ORANGE (3/4"X66')
Electrical Color Coding Tape, Yellow PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-YL-ND	5.62	—	35 YELLOW (3/4"X66')
Electrical Color Coding Tape, Green PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-GN-ND	5.62	—	35 GREEN (3/4"X66')
Electrical Color Coding Tape, Blue PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-BL-ND	5.62	—	35 BLUE (3/4"X66')
Electrical Color Coding Tape, Violet PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-VL-ND	5.62	—	35 VIOLET (3/4"X66')
Electrical Color Coding Tape, Gray PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-GY-ND	5.62	—	35 GRAY (3/4"X66')
Electrical Color Coding Tape, White PVC, 7-mil, Pressure-Sensitive Adhesive	3/4" x 66'	3M35-WH-ND	5.62	—	35 WHITE (3/4"X66')
Glass and Aluminum/Glass Cloth Tape					
Glass Cloth Tape, White, 5.4-mil, Silicone Adhesive, High Tensil Strength, General Purpose	1" x 60 yds.	3M5609-ND	76.67	65.72	361-1"X60YD
Glass Cloth Tape, White, 5.4-mil, Silicone Adhesive, High Tensil Strength, General Purpose	2" x 60 yds.	3M5610-ND	153.34	131.43	361-2"X60YD
Aluminum/Glass Cloth Tape, 7.3-mil, Silicone Adhesive, Flame/Tear/Puncture-Resistant	1" x 36 yds.	3M5611-ND	125.27	107.37	363-1"X36YD
Aluminum/Glass Cloth Tape, 7.3-mil, Silicone Adhesive, Flame/Tear/Puncture-Resistant	2" x 36 yds.	3M5612-ND	250.53	214.74	363-2"X36YD
High Temperature Tape					
High Temperature Kapton® Tape, 2.7-mil, Amber Kapton Polyimide Film, Silicone Adhesive	1/2" x 36 yds.	3M541312-ND	26.60	—	5413 1/2"
High Temperature Kapton Tape, 2.7-mil, Amber Kapton Polyimide Film, Silicone Adhesive	3/4" x 36 yds.	3M541334-ND	39.90	—	5413 3/4"
High Temperature Kapton Tape, 2.7-mil, Amber Kapton Polyimide Film, Silicone Adhesive	1" x 36 yds.	3M541310-ND ***NEW!***	57.84	—	5413 AMBER 1 IN X 36 YD
High Temperature Kapton Tape, 2.7-mil, Amber Kapton Polyimide Film, Silicone Adhesive	2" x 36 yds.	3M541320-ND ***NEW!***	115.68	—	5413 AMBER 2 IN X 36 YD
Wave Solder Tape, Low Static, 2.7-mil, Gold Polyimide Film, Silicone Adhesive	1/2" x 36 yds.	3M591912-ND	28.65	—	5419 1/2"
Wave Solder Tape, Low Static, 2.7-mil, Gold Polyimide Film, Silicone Adhesive	3/4" x 36 yds.	3M591934-ND	40.93	—	5419 3/4"
Wave Solder Tape, Low Static, 2.7-mil, Gold Polyimide Film, Silicone Adhesive	1" x 36 yds.	3M541910-ND ***NEW!***	53.49	—	5419 GOLD 1 IN X 36 YD
Wave Solder Tape, Water-Soluble, PVA Film Backing, Water-soluble Synthetic Adhesive	1/2" x 36 yds.	3M541412-ND	27.07	—	5414 1/2"
Wave Solder Tape, Water-Soluble, PVA Film Backing, Water-soluble Synthetic Adhesive	3/4" x 36 yds.	3M541434-ND	46.85	—	5414 3/4"
ScotchCode™ Wire Marker Tape Dispensers					
ScotchCode SDR Wire Marker Tape Dispenser with 0-9 Wire Marker Tapes	—	STD-0-9-ND	42.54	—	STD-0-9
ScotchCode SDR Wire Marker Tape Dispenser with 10 Colored Wire Marker Tapes	—	STD-C-ND	42.54	—	STD-C
ScotchCode SDR Wire Marker Tape Dispenser (no tape included)	—	STD-ND	13.98	—	STD
ScotchCode™ Wire Marker Tape Refills					
"0" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-0-ND	3.06	—	SDR-0
"1" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-1-ND	3.06	—	SDR-1
"2" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-2-ND	3.06	—	SDR-2
"3" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-3-ND	3.06	—	SDR-3
"4" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-4-ND	3.06	—	SDR-4
"5" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-5-ND	3.06	—	SDR-5
"6" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-6-ND	3.06	—	SDR-6
"7" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-7-ND	3.06	—	SDR-7
"8" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-8-ND	3.06	—	SDR-8
"9" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-9-ND	3.06	—	SDR-9
Black ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BK-ND	3.06	—	SDR-BK
Brown ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BN-ND	3.06	—	SDR-BN
Red ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-RD-ND	3.06	—	SDR-RD
Orange ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-OR-ND	3.06	—	SDR-OR
Yellow ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-YL-ND	3.06	—	SDR-YL
Green ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-GN-ND	3.06	—	SDR-GN
Blue ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BL-ND	3.06	—	SDR-BL
Violet ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-VL-ND	3.06	—	SDR-VL

† Recommended for wheel flares or other less demanding applications due to a narrower width.

(Continued)

3M Foil, Electrical, and Specialty Tapes *(Cont.)*

Description	Dimensions Width x Length	Digi-Key Part No.	Price Each 1	5	3M Part No.
Gray ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-GY-ND	3.06	—	SDR-GY
White ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-WH-ND	3.06	—	SDR-WH
Specialty Tape					
Sound Damping Tape, Aluminum, 10-mil, Pressure-Sensitive VEP Acrylic Adhesive	2" x 36 yds.	3M5608-ND	101.92	87.37	2552-2"X36YD
Linerless Rubber Splicing Tape, 30-mil, Self-Bonding, Black Ethylene Rubber	3/4" x 30'	3M130C-ND	17.36	—	130C (3/4"X30')
Self-Fusing Electrical Tape, 12-mil, Blue/Gray Silicone Rubber, Easy Tear - Easy Strip Liner	1" x 30'	3M70-ND	50.96	44.59/10	70 (1"X30')
Reflective Tape, 2-mil, Low Emissivity, Silver Metallic Polyester, Pressure-Sensitive Acrylic Adhesive	1" x 72 yds.	3M5629-ND	101.15	86.70	8437-1"X72YD
Chemical and Solvent Resistant Tape, 2.7-mil, Cream Polyester Film, Rubber Adhesive	1" x 72 yds.	3M85401-ND	15.85	—	854 (1")
Chemical and Solvent Resistant Tape, 2.7-mil, Cream Polyester Film, Rubber Adhesive	2" x 72 yds.	3M85402-ND	30.82	—	854 (2")
Electrically Conductive Transfer Tape, 2-mil, Pressure-Sensitive Conductive Adhesive	1/2" x 36 yds.	3M970312-ND	66.76	—	9703 (1/2")
Safety/Marking Tape					
Black Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5619-ND	33.18	28.44	471-BLACK-2"X36YD-BULK
Red Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5618-ND	31.31	26.84	471-RED-2"X36YD-BULK
Orange Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5623-ND	33.18	28.44	471-ORANGE-2"X36YD-BULK
Yellow Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5621-ND	33.18	28.44	471-YELLOW-2"X36YD-BULK
Green Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5624-ND	33.18	28.44	471-GREEN-2"X36YD-BULK
Blue Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5620-ND	31.31	26.84	471-BLUE-2"X36YD-BULK
White Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5622-ND	33.18	28.44	471-WHITE-2"X36YD-BULK
Color Coding Tape Assortment, 1 each - Black, Red, Yellow, Green, Blue, White	24mm x 20M	3M5634-ND	10.41	8.93	764
Safety Tape, Black and Yellow Diagonal Striped, 5.4-mil, Vinyl backing, Rubber Adhesive	2" x 36 yds.	3M5628-ND	43.97	37.70	5702-2"X36YD

† Recommended for wheel flares or other less demanding applications due to a narrower width.

3M *NEW!* Thermally Conductive Adhesive Transfer Tapes

3M Thermally Conductive Adhesive Transfer Tapes 9882, 9885 and 9890 are designed to provide a preferential heat-transfer path between heat-generating components and heat sinks or other cooling devices (e.g., fans, heat spreaders or heat pipes). They offer both good thermal conductivity and good electrical insulation properties.

Specifications: • Color: Grey • Thermal Conductivity: 0.60 W/m-K • Dielectric Strength: 750 Volts/mil (9890 Tested)

Tape Thickness	Dimensions Width x Length	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
2 mils (0.05mm)	1" x 36 yds.	3M9590-ND	78.74	76.11	69.82	9882 1 IN X 36 YD
5 mils (0.13mm)	1" x 36 yds.	3M9591-ND	80.16	77.49	71.08	9885 1 IN X 36 YD
10 mils (0.25mm)	1" x 36 yds.	3M9592-ND	91.25	88.21	80.91	9890 1 IN X 36 YD

3M *NEW!* Hyper Soft Thermally Conductive Interface Pads

3M Hyper Soft Thermally Conductive Interface Pads 5519 / 5519S are designed to provide a preferential heat transfer path between heat generating components and heat sinks, heat spreaders or other cooling devices.

Features: • Very high thermal conductivity and good electrical insulation properties • Good softness and conformability even to non-flat surfaces • Slight tack allows pre-assembly. Good wettability for better thermal conductivity

Specifications: • Thermal Conductivity: 4.1 W/m-K • Dielectric Strength: 1.1 kV/mm • Flammability Rating: UL-94V0

Thickness (mm)	Dimensions W x L (mm)	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
0.5	210 x 155	3M9593-ND	24.18	23.38	21.44	5519S 210 MM X 155 MM X 0.5 MM
1.0	210 x 155	3M9594-ND	21.24	20.54	18.84	5519 210 MM X 155 MM X 1.0 MM
1.5	210 x 155	3M9595-ND	44.67	43.19	39.61	5519S 210 MM X 155 MM X 1.5 MM
2.0	210 x 155	3M9596-ND	27.35	26.44	24.25	5519 210 MM X 155 MM X 2.0 MM

3M *NEW!* Thermally Conductive Interface Pad 5591S

3M Thermally Conductive Interface Pad 5591S is designed to provide a preferential heat-transfer path between heat-generating components and heat sinks, heat spreaders or other cooling devices.

Features: • Provides for good thermal stability of the base polymer with excellent softness of the thermal pad • Offers good thermal conductivity in an ultra-soft silicone polymer base • Has a permanent polyester film 12 micrometer thick on one side to provide for a non-tacky surface

Specifications: • Color: White • Thermal Conductivity: 1.0 W/m-K • Operating Temperature Range: -60°C ~ 125°C • Flammability Rating: UL-94V0

Thickness (mm)	Dimensions W x L (mm)	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
0.5	210 x 300	3M9597-ND	9.99	9.66	8.86	5591S 210 MM X 300 MM 0.5 MM
1.0	210 x 300	3M9598-ND	13.97	13.50	12.39	5591S 210 MM X 300 MM 1.0 MM
1.5	210 x 300	3M9599-ND	17.24	16.66	15.29	5591S 210 MM X 300 MM 1.5 MM
2.0	210 x 300	3M9600-ND	26.19	25.32	23.23	5591S 210 MM X 300 MM 2.0 MM
2.5	210 x 300	3M9601-ND	30.53	29.51	27.07	5591S 210 MM X 300 MM 2.5 MM

3M *NEW!* Thermally Conductive Interface Pad 5592

3M Thermally Conductive Interface Pad 5592 is designed to provide a preferential heat-transfer path between heat-generating components and heat sinks, heat spreaders or other cooling devices.

Features: • Provides for good thermal stability of the base polymer with excellent softness of the thermal pad • Offers good thermal conductivity in a soft silicone polymer base

Specifications: • Color: White • Thermal Conductivity: 1.1 W/m-K • Operating Temperature Range: -60°C ~ 125°C • Flammability Rating: UL-94V0

Thickness (mm)	Dimensions W x L (mm)	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
1.0	210 x 300	3M9602-ND	13.71	13.26	12.16	5592 210 MM X 300 MM 1.0 MM
1.5	210 x 300	3M9603-ND	17.01	16.45	15.09	5592 210 MM X 300 MM 1.5 MM
2.0	210 x 300	3M9604-ND	20.58	19.90	18.25	5592 210 MM X 300 MM 2.0 MM

3M *NEW!* Thermally Conductive Interface Pad 5595

3M Thermally Conductive Interface Pad 5595 is designed to provide a preferential heat-transfer path between heat-generating components and heat sinks, heat spreaders or other cooling devices.

Features: • Provides for good thermal stability of the base polymer with excellent softness of the thermal pad • Offers good thermal conductivity in a soft silicone polymer base

Specifications: • Color: Grey • Thermal Conductivity: 1.6 W/m-K • Operating Temperature Range: -60°C ~ 125°C • Flammability Rating: UL-94V0

Thickness (mm)	Dimensions W x L (mm)	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
1.0	210 x 300	3M9605-ND	14.85	14.36	13.17	5595 210 MM X 300 MM 1.0 MM
1.5	210 x 300	3M9606-ND	18.50	17.88	16.40	5595 210 MM X 300 MM 1.5 MM
2.0	210 x 300	3M9607-ND	22.29	21.55	19.77	5595 210 MM X 300 MM 2.0 MM

3M Fastening Systems

Scotchmate™ Hook and Loop Fastening Systems

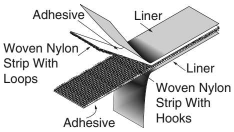

Features: When the two sides of a Scotch-mate Hook and Loop Fastener are pressed together, hundreds of tiny stiff hooks mesh with a surface of pliable loops. Simply press together to fasten and pull apart to open and you can do it thousands of times during the life of your product. Depending on the application, select either Plain-backed or Adhesive-backed versions. Plain-backed versions are easily sewn or stapled in place. Adhesive-backed fasteners are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more.

Standard Sew-On, Plain-Backed: • Tailored appearance for garments • Wash or dry clean • Operating Temperature: Up to 250°F (121°C) continuous

Pressure Sensitive Rubber Adhesive-Backed: • General purpose adhesion to most smooth surfaces • Operating Temperature: -20°F ~ 120°F (-29°C ~ 49°C)

Width Inch (mm)	Digi-Key Part No.	Note: X in Part No. = # of yds. Pricing 1 yd.	10 yds.	25 yds.	50 yds.
Standard Sew-On, Plain-Backed — Black					
5/8 (15.88)	SJ340158B-X-ND†	1.20	9.57	14.95	17.94
1 (25.40)	SJ340210B-X-ND‡	1.71	13.65	21.33	25.59
Standard Sew-On, Plain-Backed — White					
5/8 (15.88)	SJ340158W-X-ND†	1.11	8.91	13.93	16.71
5/8 (15.88)	SJ340258W-X-ND‡	.90	7.20	11.25	13.50
1 (25.40)	SJ340210W-X-ND‡	1.71	13.65	21.33	25.59
Pressure Sensitive Rubber Adhesive-Backed — Black					
5/8 (15.88)	SJ352758B-X-ND†	5.68	45.44	71.00	75.54
5/8 (15.88)	SJ352658B-X-ND‡	5.68	45.44	71.00	75.54
1 (25.40)	SJ352710B-X-ND†	7.10	56.82	88.79	94.47
1 (25.40)	SJ352610B-X-ND‡	7.10	56.82	88.79	94.47

† Loop ‡ Hook

Scotchmate™ Reclosable Fastener SJ3000 — Thin Back-to-Back Hook and Loop

Features: 3M™ Scotchmate™ Reclosable Fastener SJ3000 is a thin back-to-back fastener offering closure alternatives to plastic wire, tape, string, rubber bands and other types of closure systems used to secure individual or bundles of items. One side of the thin fastener strip is covered with tiny translucent polypropylene hooks, approximately 1400 per square inch (220/sq. cm). These hooks engage with thousands of soft, pliable, thin polyester loops on the reverse side providing for a limited number of openings and closings (cycles). Simply pull the strips apart to disengage.

Material of Construction: *Hook:* Translucent Polypropylene; *Loop:* Polyester

Thickness - Unmated: 0.027", 0.69mm

Width Inch (mm)	Color	Digi-Key Part No.	Note: X in Part No. = # of yds. Pricing 1 yd.	10 yds.	25 yds.	50 yds
1 (25.40)	Red	SJ300010R-X-ND	1.45	9.30	20.66	36.16
.5 (12.70)	Red	SJ300012R-X-ND	1.08	6.93	15.41	26.96
1 (25.40)	Black	SJ300010B-X-ND	1.76	11.33	25.18	44.07
.5 (12.70)	Black	SJ300012B-X-ND	1.08	6.93	15.41	26.96

(Continued)

3M Fastening Systems *(Cont.)*

Rigid Backed Dual Lock

RoHS

Features:
Type 400 Dual Lock Fasteners on a rigid back with recessed mounting hole

Size – mm	Hole Size	Digi-Key Part No.	Pricing 1	50	100
Round					
20.6 Diameter	4.1mm	SJ3463-ND	.35	14.00	21.00
14.3 Diameter	4.1mm	SJ3465-ND	.53	21.00	31.50
Square					
38.1 Square	4.2mm	SJ3252-ND	.68	27.00	40.50
38.1 Square	3.6mm	SJ3261-ND	.68	27.00	40.50

Round

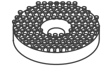

Square

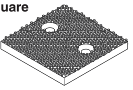

Dual Lock™ Reclosable Fastening Systems

RoHS

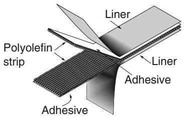

Features: When these fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap announces that the fastener is locked. Compared to hook and loop fasteners, you get improved tensile strength with five times more holding power. Open and close hundreds of times during the life of your product. Plain-backed versions can be easily sewn, stapled or ultrasonically bonded in place. Adhesive-backed versions are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. For easy opening applications, you can mate Type 250 with Type 170. For medium opening, you can mate Type 170 with Type 400 or Type 250 with itself. For greater holding power with limited openings, you can mate Type 250 with Type 400 or mate Type 170 with Scotchmate Loop Products. **Plain-Backed:** Sew on or staple. Wash or dry clean. • Operating Temperature: -20°F ~ 200°F (-29°C ~ 93°C) **Pressure Sensitive Rubber Adhesive-Backed:** General purpose. Bonds to most surfaces. • Operating Temperature: -20°F ~ 120°F (-29°C ~ 49°C) continuous. **Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed:** High performance for aircraft, automotive, business equipment, electronics. Resists harsh wet/dry, hot/cold cycles. • Operating Temperature: -20°F ~ 158°F (-29°C ~ 70°C) continuous **Dual Lock, Low Profile Acrylic Adhesive-Backed:** • Material of Construction: Polypropylene • Operating Temperature: -29°F (29°C) and up to 158°F (70°C) • Single Thickness: .0645” (1.63mm) • Engaged Thickness: .0910” (2.31mm) • Closure Cycle Life: 100 ~ 150

Width Inch (mm)	Type	Digi-Key Part No.	Note: X in Part No. = # of yds. Pricing 1 yd.	10 yds.	25 yds.	50 yds.
Plain-Backed — Black						
.5 (12.70)	170	SJ344212-X-ND	5.81	46.50	72.66	77.31
1 (25.40)	170	SJ344210-X-ND	9.69	77.50	121.10	128.85
Pressure Sensitive Rubber Adhesive-Backed — Black						
.5 (12.70)	250	SJ354012-X-ND	8.08	64.68	101.06	121.27
	400	SJ354112-X-ND	7.85	62.79	98.11	104.39
	170	SJ354212-X-ND	7.85	62.79	98.11	104.39
1 (25.40)	250	SJ354010-X-ND	13.47	107.77	168.39	202.07
	400	SJ354110-X-ND	13.08	104.62	163.48	173.94
	170	SJ354210-X-ND	13.08	104.62	163.48	173.94
Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Black						
.5 (12.70)	250	SJ355012-X-ND	11.51	92.08	143.88	153.08
	400	SJ355112-X-ND	11.51	92.08	143.88	153.08
	170	SJ355212-X-ND	11.51	92.08	143.88	153.08
1 (25.40)	250	SJ355010-X-ND	19.18	153.44	239.75	287.70
	400	SJ355110-X-ND	19.18	153.44	239.75	244.55
	170	SJ355210-X-ND	19.18	153.44	239.75	244.55
Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Clear						
.5 (12.70)	250	SJ356012-X-ND	13.22	105.73	165.20	175.77
1 (25.40)	250	SJ356010-X-ND	22.03	176.26	275.41	280.92
Dual Lock, Low Profile Acrylic Adhesive-Backed — Clear						
1 (25.40)	300 LSE	SJ457010C-X-ND	5.43	34.88	67.81	—
Dual Lock, Low Profile Acrylic Adhesive-Backed — Black						
1 (25.40)	300 LSE	SJ457510B-X-ND	4.92	31.60	70.22	122.89

MiniPack

Features: Assorted Hook, Loop and Dual Lock™ Fastening systems

RoHS

Description	Digi-Key Part No.	Price Each 1	5	10
Hook and Loop (4.9 yards per pack)				
White, 1”, Sew-on	MP-3401/02W-ND	22.75	19.50	17.55
Black, 1”, Adhesive	MP-3526/27B-ND	43.91	37.64	33.88
White, 1”, Adhesive	MP-3526/27W-ND	43.91	37.64	33.88
Dual Lock™ (4.9 yards per pack)				
Black, 1”, Adhesive	MP-3541/42B-ND	65.07	55.77	50.20
Black, 1”, High Bond	MP-3551/52B-ND	91.04	78.03	70.23
Dual Lock, Low Profile (10 feet per pack)				
Clear, 5/8”, Adhesive	MP-457058C-10-ND	17.50	—	15.00

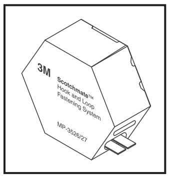

NEW! Command™ Cord Clips and Bundlers

RoHS

Fig. 1

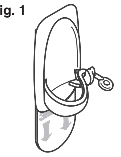

Fig. 2

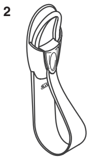

Fig. 3

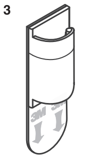

Fig. 4

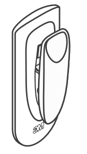

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	3M Part No.
1	Small Cord Clips w/ Command Adhesive (8 Clips)	3M9609-ND	4.08	3.26	2.86	17302
	Medium Cord Clips w/ Command Adhesive (4 Clips)	3M9608-ND	4.08	3.26	2.86	17301
	Large Cord Clips w/ Command Adhesive (2 Clips)	3M9610-ND	4.08	3.26	2.86	17303
2	Command Cord Bundlers (2 Bundlers)	3M9611-ND	5.10	4.08	3.57	17304
3	Command Cord Clips (4 Clips)	3M9612-ND	4.08	3.26	2.86	17017
4	Command Spring Clip (1 Clip)	3M9613-ND	5.05	4.04	3.54	17005

Richco Adjustable Kwik Klip

RoHS

Features:
- 4 sizes adjust to any holding diameter from 5/16" ~ 1" (7.9 ~ 25.4mm)
- Locks securely, easily reopened for routing changes
- Adhesive back

Material: Nylon 6/6
Color: Natural

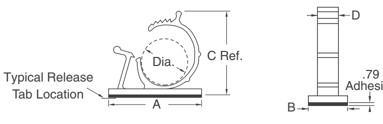

Dia. Range mm	Dimensions – mm A	B	C	D	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
7.87 ~ 10.16	25.40	19.05	22.10	10.16	RP309-ND	8.66	66.64	266.56	AKKL-3140A-RT
11.68 ~ 14.22	31.75	19.05	27.69	10.16	RP310-ND	10.83	83.31	333.24	AKKL-4756A-RT
14.48 ~ 19.05	38.10	19.05	31.75	12.70	RP311-ND	8.04	57.44	252.73	AKKL-5775A-RT
22.10 ~ 25.40	50.80	25.40	44.45	12.70	RP312-ND	9.10	65.01	286.02	AKKL-8710A-RT

Tie Holders

RoHS

Fig. 1 — Features: • Multi-directional • **Material:** Nylon 6/6, UV Stabilized Nylon 6/6

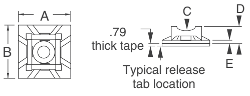

Fig. 2 — Features: • Ramp feature allows ties to pass through easily • 4-way entry • **Material:** Nylon 6/6, Adhesive, UV Stabilized Nylon 6/6

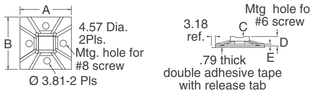

Fig.	Tensile Force (kg)	Dimensions – mm A	B	C	D	E	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Nylon											
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP301-ND	5.56	42.80	171.20	FTH-5A-RT-C
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP302-ND	5.90	45.37	181.48	FTH-7-01A-RT
2	44.79	38.10	38.10	10.92	7.62	2.03	RP303-ND	9.07	64.81	285.14	FTH-8-01A-RT
	44.79	50.80	50.80	10.92	7.62	2.03	RP304-ND	7.31	48.54	219.32	FTH-10-RT-M
Ultra Violet – Exterior or Outdoor Use (Black)											
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP305-ND	5.24	40.34	161.36	FTH-5A-RT-UVB-M
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP306-ND	7.77	59.77	239.08	FTH-7A-RT-UVB-C
2	44.79	38.10	38.10	10.92	7.62	2.03	RP307-ND	9.60	68.55	301.60	FTH-8-01A-RT-UVB

LED Spacers

RoHS

Features: • Spaces LED from surface of board • Easily installed by hand • Insulates and spaces leads • Slots and holes for choice of mount **Material:** Nylon 6/6 **Color:** Natural

Fig. 1

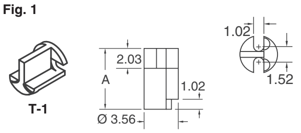

Fig. 2

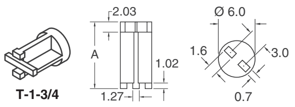

Fig.	Dimension A mm	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
1	4.57	RP500-ND	4.01	30.85	123.40	LEDS1E-3-01
	6.35	RP501-ND	4.24	32.60	130.40	LEDS1E-4-01
	12.70	RP502-ND	4.68	36.03	144.12	LEDS1E-8-01
	15.75	RP503-ND	4.80	36.91	147.64	LEDS1E-10-01
	19.05	RP504-ND	4.88	37.57	150.26	LEDS1E-12-01
2	4.57	RP505-ND	5.08	39.04	156.16	LEDS2E-3-01
	6.35	RP506-ND	5.30	40.77	163.08	LEDS2E-4-01
	12.70	RP507-ND	5.75	44.21	176.82	LEDS2E-8-01
	15.75	RP508-ND	5.84	44.93	179.72	LEDS2E-10-01
	19.05	RP509-ND	5.93	45.60	182.38	LEDS2E-12-01

Hole Grommet

RoHS

Features: Installs instantly

Material: Flexible vinyl

Color: Black

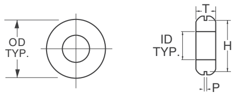

ID	Dimensions – mm H	P	OD	T	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
3.05	4.57	1.52	7.87	6.35	RP450-ND	1.58	12.15	48.60	HG-2
3.81	6.35	1.52	9.40	6.35	RP451-ND	1.63	12.53	50.12	HG-2.5
4.57	7.87	.76	10.92	4.57	RP452-ND	1.79	13.76	55.02	HG-3
5.33	7.87	1.52	10.92	5.33	RP453-ND	1.99	15.33	61.32	HG-3.5
6.35	9.40	2.29	14.22	7.11	RP454-ND	2.20	16.89	67.56	HG-4
9.40	12.70	1.52	17.27	7.11	RP455-ND	3.66	28.14	112.56	HG-6
14.22	17.27	1.52	22.10	4.57	RP456-ND	4.64	35.66	142.62	HG-9
17.27	19.05	1.52	23.62	4.57	RP457-ND	5.12	39.40	157.58	HG-11

Richco

Liquid Tight Grommet

Features:

- Provides dust and watertight seal
- Conforms to IP67 standards
- Provides light strain relief
- Fits a variety of cable sizes

Fig. 1

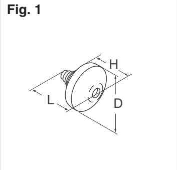

Fig. 2

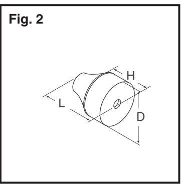

Fig.	Color	Material	Panel Hole (mm)	Panel Thick (mm)	Cable Size (mm)	Dimensions (mm) D	L	H	Digi-Key Part No.	Pricing 10	100	Richco Part No.
1	Black	RMS-153	12.5	0.5~2.0	3.0~5.0	19.8	17.0	7.1	RP740-ND	10.33	79.47	LTG-199017
2	Gray	RMS-125	16.0	1.0~4.0	5.0~7.0	21.0	18.9	6.2	RP741-ND	7.15	51.06	LTG-39897
	Gray	RMS-125	19.0	1.0~4.0	7.0~10.0	23.9	19.6	6.1	RP742-ND	8.54	61.02	LTG-34715

Locking Circuit Board Supports

Features:

- Both ends lock by hand; no tools required
- Strong, dependable grip
- **Material:** Nylon 6/6
- **Color:** Natural

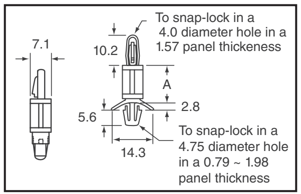

7.1
10.2
To snap-lock in a 4.0 diameter hole in a 1.57 panel thickeness
A
2.8
5.6
14.3
To snap-lock in a 4.75 diameter hole in a 0.79 ~ 1.98 panel thickness

Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	1,000	Richco Part No.
4.57	RP425-ND	2.59	19.92	79.66	143.39	LCBS-3
6.35	RP426-ND	2.75	21.19	84.76	152.57	LCBS-4
9.40	RP428-ND	2.89	22.25	89.00	160.20	LCBS-6
10.92	RP429-ND	3.01	23.15	92.58	166.64	LCBS-7
12.70	RP430-ND	3.11	23.93	95.72	172.30	LCBS-8
15.75	RP431-ND	3.33	25.60	102.38	184.28	LCBS-10
19.05	RP432-ND	3.55	27.29	109.16	196.49	LCBS-12
25.40	RP434-ND	3.99	30.69	122.74	220.93	LCBS-16

Wire Saddle

Features:
Wire Saddles are ideal for routing wires or optical fiber. Wires can be easily inserted into the top side of the saddle to protect them from abrasion. The **Micro** is ideal for low profile applications and takes up very little real estate. The **MOFNSA** is designed to snap into a .125" diameter hole in a .093" thick panel for applications that require a thicker board than the standard 1/16" board.

Fig. 1 — Micro

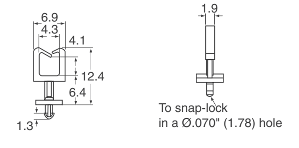

Fig. 2 — MOFNSA

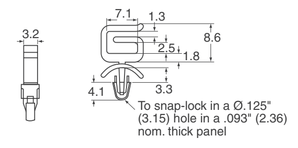

7.1
1.3
3.2
8.6
2.5
1.8
3.3
4.1
To snap-lock in a Ø.125" (3.15) hole in a .093" (2.36) nom. thick panel

Hole Dia. Inch (mm)	Panel Thickness Inch (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Fig. 1 — Standoff Micro Wire Saddle						
.070 (1.75)	.062 (1.57)	RP738-ND	3.66	28.13	112.52	SMWS-1-01
.070 (1.75)	.093 (2.36)	RP739-ND	3.66	28.13	112.52	SMWS1-1-01
Fig. 2 — Mini Optical Fiber Network Saddle						
.125 (3.18)	.093 (2.36)	RP737-ND	2.81	21.60	86.38	MOFNSA-2-01

Twist-Lok — TL Series

Features:

- Twist to secure wire bundles
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

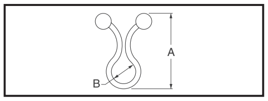

"A" Overall Height (mm)	"B" Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
22.86	5.08 ~ 7.62	RP600-ND	2.47	8.24	59.29	TL-250
26.16	7.62 ~ 10.16	RP601-ND	2.64	8.81	63.43	TL-350
30.48	10.16 ~ 12.70	RP602-ND	2.85	9.50	68.36	TL-450
33.78	13.97 ~ 16.51	RP603-ND	2.97	9.91	71.35	TL-600
39.37	17.78 ~ 20.32	RP604-ND	3.46	11.52	82.94	TL-750
43.18	25.40 Maximum	RP605-ND	3.55	11.85	85.28	TL-950
55.63	30.23 Maximum	RP606-ND	4.81	16.04	115.49	TL-1125
68.07	36.58 Maximum	RP607-ND	3.82	11.45	76.36	TL-1375
74.42	39.62 Maximum	RP608-ND	4.74	14.22	94.78	TL-1500

Kurly-Lok On Base — KLB Series

Features:

- Adhesive backing, RMS-15
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

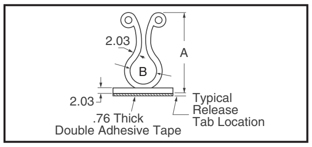

"A" Overall Height (mm)	"B" Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
27.18	7.62 ~ 10.16	RP610-ND	11.16	37.20	267.80	KLB-350A-RT
31.24	10.16 ~ 12.70	RP611-ND	12.34	41.13	296.10	KLB-450A-RT
40.13	17.78 ~ 20.32	RP612-ND	12.97	43.22	311.18	KLB-750A-RT

Wire Cord Klip — WCK Series

Features:

- Adhesive backing for quick mounting
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

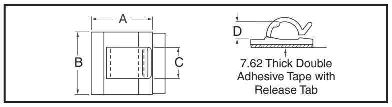

Hole Dia. (mm)	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
With Tape									
4.57	16.00	15.75	7.87	4.06	RP617-ND	12.34	41.14	296.21	WCK-180-01A-RT
11.43	25.15	25.15	11.94	7.11	RP618-ND	21.67	72.23	520.02	WCK-460-01A-RT
18.29	25.40	25.40	12.70	13.46	RP619-ND	26.94	89.81	646.60	WCK-720-01A-RT

Strain Relief Bushings — SRB-F and SRB-R Series

Features:

- Bushing eliminates strain and wear on wires and cords
- Withstands temperatures to 150°F (65°C)
- **Material:** Nylon 6/6, RMS-40
- **Color:** Black

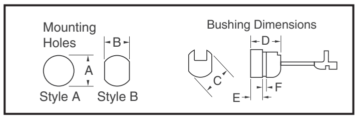

Digi-Key Part No.	Approx. Wire Size (mm)	Mounting Holes (mm) Style A	Style B	Bushing Dimensions (mm) C	D	E	F*
RP461-ND	2.79 x 5.33	9.52	8.76	10.79	10.41	3.94	1.57
	2.29 x 4.57	9.52	8.76	10.79	10.41	3.94	1.57
RP462-ND	4.09 x 7.62	13.08	11.81	14.48	12.70	4.34	2.54
	3.81 x 7.11	12.70	11.81	14.48	12.70	4.34	2.54
RP463-ND	4.06 x 9.40	14.27	13.46	15.49	15.24	6.10	3.30
	3.81 x 8.64	14.27	13.46	15.49	15.24	6.10	3.30
	5.08 x 9.40	14.27	13.46	15.49	15.24	6.10	3.30
	4.57 x 8.89	14.27	13.46	15.49	15.24	6.10	3.30
RP464-ND	4.83 x 7.62	12.70	11.58	13.84	10.19	3.61	1.80
	3.81 x 7.11	12.70	11.58	13.84	10.19	3.61	1.80
	4.06 x 7.62	12.70	11.58	13.84	10.19	3.61	1.80
RP465-ND	6.35	12.70	11.81	14.22	10.92	4.19	2.54
	6.73	13.08	11.81	14.22	10.92	4.19	2.54
	7.37	13.08	11.81	14.22	10.92	4.19	2.54
	6.86	12.70	11.81	14.22	10.92	4.19	2.54
RP466-ND	8.25	16.66	14.48	18.45	17.27	6.98	3.18
	7.62	16.66	14.48	18.45	17.27	6.98	3.18
	9.02	17.45	14.48	18.45	17.27	6.98	3.18
	8.38	17.45	14.48	18.45	17.27	6.98	3.18

* Maximum Panel Thickness

Digi-Key Part No.	Pricing 25	100	1,000	5,000	Richco Part No.
RP461-ND	10.18	33.93	244.26	196.77/M	SRB-F-2
RP462-ND	4.32	14.41	103.75	83.58/M	SRB-F-4-SP
RP463-ND	13.73	45.78	329.62	265.53/M	SRB-F-5
RP464-ND	3.52	11.74	84.53	68.10/M	SRB-F-7
RP465-ND	3.75	12.49	89.89	72.42/M	SRB-R-5
RP466-ND	8.32	27.73	199.62	160.81/M	SRB-R-6

C-Type Flat Cable Clamps — CFCC Series

Features:

- Designed for routing flat ribbon cable
- Serrated grip to prevent slippage
- Adhesive backing for quick mount in any direction
- **Material:** Noryl-White, RMS-05; PVC-Gray, RMS-04

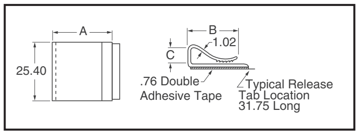

Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
Noryl-White	14.27	12.45	4.57	RP391-ND	11.02	36.75	264.56	CFCC-3-05A-RT
	14.27	10.16	6.35	RP392-ND	13.99	46.63	335.74	CFCC-4-05A-RT
	26.97	22.35	6.35	RP393-ND	17.46	58.19	418.97	CFCC-8-05A-RT
Rigid PVC-Gray	26.97	22.35	6.35	RP394-ND	13.47	44.89	323.17	CFCC-8-04A-RT

Richco Cable Clamps — N Series

Features:
- **Material:** Nylon 6/6, RMS-01
- **Colors:** Natural and Black

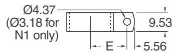

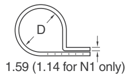

Description	Dimensions (mm) D	Dimensions (mm) E	Digi-Key Part No.	Pricing 25	Pricing 100	Pricing 1,000	Richco Part No.
Black, RMS-49	1.60	6.86	RP322-ND	1.54	5.13	36.94	N-1-BK
	3.18	8.33	RP323-ND	1.57	5.24	37.69	N-2-BK
	4.78	9.91	RP324-ND	1.80	6.01	43.24	N-3-BK
	6.35	10.69	RP325-ND	1.87	6.25	44.96	N-4-BK
	7.95	11.51	RP326-ND	1.89	6.32	45.47	N-5-BK
	9.52	12.29	RP327-ND	2.06	6.85	49.32	N-6-BK
	11.13	11.99	RP328-ND	2.13	7.11	51.19	N-7-BK
	12.70	14.27	RP329-ND	2.16	7.19	51.77	N-8-BK
Natural, RMS-01	3.18	8.33	RP315-ND	1.75	5.82	41.90	N-2
	4.78	9.91	RP316-ND	2.00	6.67	48.02	N-3
	6.35	10.69	RP317-ND	2.08	6.93	49.90	N-4
	7.95	11.51	RP318-ND	2.11	7.02	50.54	N-5
	9.52	12.29	RP319-ND	2.28	7.62	54.83	N-6
	11.13	11.99	RP320-ND	2.37	7.90	56.88	N-7
	12.70	14.27	RP321-ND	2.40	7.99	57.49	N-8

Hanking Ties

Features:
- Wrap electrical cords for shipping and packaging
- **Material:** Polyethylene
- **Color:** Natural

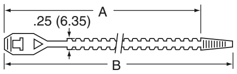

Max. Bundle Diameter Inch (mm)	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Price Per Package 100	Price Per Package 1,000	Richco Part No.
.9 (22.86)	3.2 (81.28)	3.9 (99.06)	RP701-ND◆	19.28	138.78	HT-3.9
1.4 (35.56)	5.2 (132.08)	5.9 (149.86)	RP703-ND	24.22	174.38	HT-5.9

◆ *RoHS Compliant*

Wrap-It-Ties

Features:
- Easy to use permanent lock
- Strong, one-piece construction
- Serviceable to 185°F (85°C)
- UL recognized #E71558

Wire Tie Gun

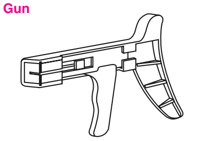

RPWTA-ND........ $39.88

† Replace ☐ with "C" for package of 100, "M" for package of 1,000.

Max. Bundle Dia. (in.)	Approx. Length (in.)	Min. Loop Tensile Strength (lbs.)	Approx. Width (in.)	Color	Digi-Key Part No.†	Package Size Price Per Pkg. C = 100	Package Size Price Per Pkg. M = 1000	Richco Part No.
				Nylon 6/6				
0.6	3.25	18	.10	Natural	RP101M-ND	—	18.43	WIT-18SFM
0.6	3.25	18	.10	Red	RP101RDM-ND	—	10.04	WIT-18SF-RDM
0.7	4.5	18	.10	Natural	RP102☐-ND	3.30	20.05	WIT-18R
0.7	4.5	18	.10	Blue	RP102BL☐-ND	2.14	—	WIT-18R-BL
0.7	4.5	18	.10	Green	RP102GN☐-ND	3.57	—	WIT-18R-GN
0.7	4.5	18	.10	Red	RP102RD☐-ND	3.57	—	WIT-18R-RD
1.3	5.75	18	.10	Natural	RP213☐-ND	3.86	—	WIT-18L
2.1	8.0	18	.10	Natural	RP103☐-ND	6.27	—	WIT-18V
1.2	5.75	30	.14	Natural	RP104☐-ND	6.11	—	WIT-30R
1.2	5.75	30	.14	Blue	RP104BLM-ND	—	21.66	WIT-30R-BLM
1.2	5.75	30	.14	Green	RP104GNM-ND	—	21.66	WIT-30R-GNM
1.2	5.75	30	.14	Red	RP104RD☐-ND	2.94	21.66	WIT-30R-RD
1.2	5.75	30	.14	Yellow	RP104YL☐-ND	3.08	19.58	WIT-30R-YL
1.8	7.3	30	.14	Natural	RP105M-ND	—	40.07	WIT-30LM
1.8	7.3	30	.14	Yellow	RP105YLC-ND	3.58	—	WIT-30L-YLC
0.7	4.5	40	.14	Natural	RP214C-ND	5.39	—	WIT-40SC
1.2	5.75	40	.14	Natural	RP106M-ND	—	43.09	WIT-40RM
1.2	5.75	40	.14	Blue	RP106BL☐-ND	3.85	21.72	WIT-40R-BL
1.2	5.75	40	.14	Yellow	RP106YL☐-ND	3.85	19.78	WIT-40R-YL
1.8	7.3	40	.14	Green	RP107GN☐-ND	4.79	31.96	WIT-40L-GN
1.8	7.3	40	.14	Red	RP107RDM-ND	—	27.06	WIT-40L-RDM
3.1	11.1	40	.15	Natural	RP215M-ND	—	118.69	WIT-40VLM
2.0	8.0	50	.19	Natural	RP109☐-ND	8.49	51.70	WIT-50R
2.0	8.0	50	.19	Green	RP109GNM-ND	—	26.78	WIT-50R-GN
2.0	8.0	50	.19	Red	RP109RD☐-ND	—	31.02	WIT-50R-RD
2.0	8.0	50	.19	Yellow	RP109YL☐-ND	4.22	26.78	WIT-50R-YL
4.5	15.3	50	.18	Natural	RP110☐-ND	14.66	89.28	WIT-50L
				UV Stabilized Nylon 6/6 – Exterior or Outdoor Use				
0.6	3.25	18	.10	Black	RP201C-ND	3.33	—	WIT-18SF-UVBC
0.7	4.5	18	.10	Black	RP202☐-ND	3.63	22.07	WIT-18R-UVB
1.2	5.75	30	.14	Black	RP204C-ND	6.72	—	WIT-30R-UVBC
1.8	7.3	30	.14	Black	RP205☐-ND	7.25	—	WIT-30L-UVB
1.2	5.75	40	.14	Black	RP206M-ND	—	47.45	WIT-40R-UVBM
2.0	8.0	50	.19	Black	RP209☐-ND	9.34	56.88	WIT-50R-UVB
4.5	15.3	50	.18	Black	RP210☐-ND	16.14	98.21	WIT-50L-UVB
				Nylon 6/6, Release Tab				
1.25	5.5	40	.21	Natural	RP217M-ND	—	97.99	WIT-RT-0550
2	8.0	40	.21	Natural	RP218M-ND	—	108.00	WIT-RT-0800M

Max. Bundle Dia. (in.)	Approx. Length (in.)	Min. Loop Tensile Strength (lbs.)	Approx. Width (in.)	Color	Digi-Key Part No.	Pricing 25	Pricing 100	Richco Part No.
				Nylon 6/6, Release Tab (Large Size)				
4	15.25	250	.52	Natural	RP221-ND	18.38	61.25	WIT-RT-1525

Beaded Ties

Features: • Easy to install and release • **Material:** Nylon 6/6 • **Color:** Natural

Fig. 1

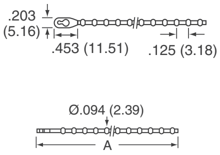

Fig. 2

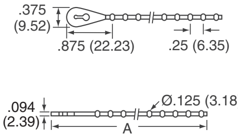

Fig.	Dim "A" (approx.) Inch (mm)	Digi-Key Part No.	Price Per Package 100	Price Per Package 1,000	Richco Part No.
1	4.0 (101.60)	RP731-ND	7.66	55.15	BT-4-01-NT
	6.0 (152.40)	RP733-ND	13.38	96.34	BT-6-01-NT
2	8.75 (222.25)	RP734-ND	18.54	133.45	BT-8-01-NT

Molded Nylon Insulators — MNI Series

Features: • Use as screw insulators and in many bushing applications • Lightweight • High dielectric strength • Resistant to corrosion and abrasion • **Material:** Nylon 6/6, RMS-48 • **Color:** Natural

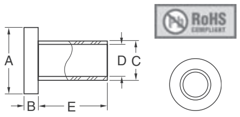

Screw Size	Approx. Met. Equiv.	Dimensions — Inch A	B	C	D	E	Digi-Key Part No.	Pricing 25	Pricing 100	Pricing 1,000	Richco Part No.
#2	M2.2	.181	.047	.120	.090	.031	RP330-ND	5.20	17.34	124.81	MNI#2-2
#4	M3	.235	.047	.145	.115	.031	RP337-ND	5.20	17.34	124.81	MNI#4-2
	M3	.235	.047	.140	.115	.046	RP338-ND	5.20	17.34	124.81	MNI#4-3
	M3	.235	.047	.145	.115	.063	RP339-ND	5.20	17.34	124.81	MNI#4-4
	M3	.252	.047	.140	.115	.084	RP340-ND	5.20	17.34	124.81	MNI#4-5
	M3	.235	.047	.140	.115	.093	RP341-ND	5.20	17.34	124.81	MNI#4-6
	M3	.235	.047	.145	.115	.125	RP342-ND	5.20	17.34	124.81	MNI#4-8
	M3	.235	.047	.140	.115	.156	RP343-ND	5.20	17.34	124.81	MNI#4-10
	M3	.235	.047	.145	.115	.187	RP344-ND	3.47	10.40	69.34	MNI#4-12
	M3	.235	.047	.145	.115	.375	RP346-ND	5.20	17.34	124.81	MNI#4-24
#5	M3	.370	.050	.236	.126	.050	RP347-ND	4.16	12.49	83.24	MNI#5-3
#6	M3.5	.290	.047	.170	.140	.093	RP350-ND	5.21	17.37	125.03	MNI#6-6
	M3.5	.290	.047	.170	.140	.125	RP351-ND	5.21	17.37	125.03	MNI#6-8
	M3.5	.290	.047	.170	.140	.187	RP352-ND	5.21	17.37	125.03	MNI#6-12
	M3.5	.300	.047	.170	.138	.250	RP353-ND	5.21	17.37	125.03	MNI#6-16
#8	M4	.344	.063	.205	.173	.063	RP357-ND	5.46	18.22	131.15	MNI#8-4
	M4	.344	.063	.205	.173	.093	RP358-ND	5.46	18.22	131.15	MNI#8-6
	M4	.344	.063	.205	.173	.125	RP359-ND	3.64	10.93	72.86	MNI#8-8
	M4	.344	.063	.205	.173	.187	RP360-ND	3.64	10.93	72.86	MNI#8-12
	M4	.344	.063	.205	.173	.375	RP362-ND	3.64	10.93	72.86	MNI#8-24
	M4	.344	.063	.205	.173	.500	RP363-ND	5.46	18.22	131.15	MNI#8-32
#10	M5	.399	.063	.260	.200	.187	RP368-ND	5.69	18.96	136.51	MNI#10-12
	M5	.399	.063	.260	.200	.250	RP369-ND	5.69	18.96	136.51	MNI#10-16
	M5	.399	.063	.260	.200	.375	RP370-ND	5.69	18.96	136.51	MNI#10-24
1/4	M6	.513	.065	.312	.260	.187	RP380-ND	3.92	11.76	78.40	MNI1/4-12
5/16	M8	.620	.063	.360	.320	.125	RP387-ND	4.10	12.29	81.94	MNI5/16-8
	M8	.620	.063	.360	.320	.250	RP389-ND	6.71	22.37	161.03	MNI5/16-16

Wire Ties and Accessories

Fig. 1
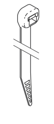

Fig. 2
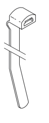

Fig. 3
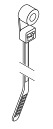

Fig. 4
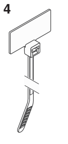

Fig. 5
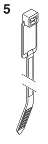

Fig. 6
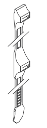

Fig. 7
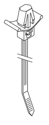

Fig. 8
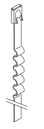

Fig. 9
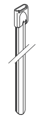

Fig. 10
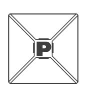

Fig. 11
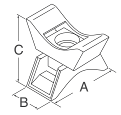

Fig. 12
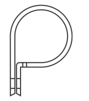

Fig. 13
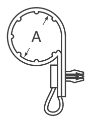

Fig. 14
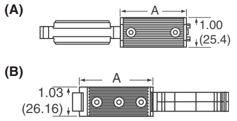

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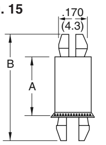

Fig. 16
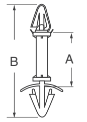

Fig. 17
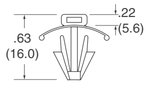

Fig. 18
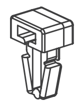

Fig. 19
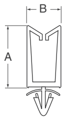

Fig. 20
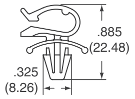

Fig. 21
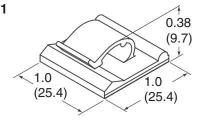

Fig. 22
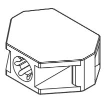

Fig. 23
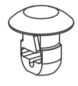

Fig. 24
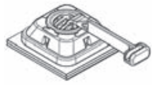

					Nylon 6.6 Indoor Use Only				Weather Resistant - Black - Nylon 6.6			
Fig.	Min. Loop Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
PAN-TY® Cable Ties – Low Thread Force to Reduce Operator Fatigue and Increase Productivity — RoHS Compliant												
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1016-ND	100	13.64	PLT.6SM-C	298-1037-ND	100	18.79	PLT.6SM-C0
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1017-ND	1,000	28.38	PLT.6SM-M	298-1038-ND	1,000	40.50	PLT.6SM-M0
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1018-ND	100	14.27	PLT.7M-C	—	—	—	—
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1019-ND	1,000	26.99	PLT.7M-M	298-1039-ND	1,000	37.33	PLT.7M-M0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1020-ND	100	15.35	PLT1M-C	298-1040-ND	100	20.13	PLT1M-C0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1021-ND	1,000	30.83	PLT1M-M	298-1041-ND	1,000	48.27	PLT1M-M0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1022-ND	100	17.78	PLT1.5I-C	298-1042-ND	100	21.86	PLT1.5I-C0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1023-ND	1,000	47.57	PLT1.5I-M	298-1043-ND	1,000	64.31	PLT1.5I-M0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1024-ND	100	19.99	PLT1.5M-C	298-1044-ND	100	23.02	PLT1.5M-C0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1025-ND	1,000	46.55	PLT1.5M-M	298-1045-ND	1,000	66.90	PLT1.5M-M0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1030-ND	100	22.67	PLT2S-C	298-1050-ND	100	24.22	PLT2S-C0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1031-ND	1,000	65.06	PLT2S-M	298-1051-ND	1,000	72.63	PLT2S-M0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1026-ND	100	27.05	PLT2I-C	298-1046-ND	100	32.54	PLT2I-C0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1027-ND	1,000	61.85	PLT2I-M	298-1047-ND	1,000	88.07	PLT2I-M0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1028-ND	100	21.37	PLT2M-C	298-1048-ND	100	28.69	PLT2M-C0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1029-ND	1,000	47.25	PLT2M-M	298-1049-ND	1,000	71.70	PLT2M-M0
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1032-ND	100	33.03	PLT3I-C	298-1052-ND	100	44.13	PLT3I-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1033-ND	100	45.33	PLT3S-C	298-1053-ND	100	48.60	PLT3S-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1034-ND	1,000	169.31	PLT3S-M	298-1054-ND	1,000	201.18	PLT3S-M0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1035-ND	100	51.60	PLT4S-C	298-1055-ND	100	54.11	PLT4S-C0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1036-ND	1,000	189.20	PLT4S-M	298-1056-ND	1,000	213.78	PLT4S-M0
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1360-ND	100	77.42	PLT5S-C	—	—	—	—
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1361-ND	1,000	267.69	PLT5S-M	—	—	—	—
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1366-ND	100	76.68	PLT6LH-L	—	—	—	—
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1367-ND	100	59.69	PLT6LH-C	—	—	—	—
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1373-ND	100	124.40	PLT8LH-C	—	—	—	—
PAN-TY Clamp Tie with Mounting Hole – BARB-TY® Cable Tie — RoHS Compliant												
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1063-ND	100	15.55	BT1M-C	298-1080-ND	100	20.37	BT1M-C0
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1071-ND	100	20.81	BT1.5M-C	—	—	—	—
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1072-ND	100	21.81	BT2M-C	298-1089-ND	100	27.46	BT2M-C0
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1074-ND	100	31.47	BT4M-C	298-1091-ND	100	41.76	BT4M-C0
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1064-ND	100	17.94	BT1.5I-C	298-1081-ND	100	22.05	BT1.5I-C0
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1065-ND	100	27.05	BT2I-C	298-1082-ND	100	32.50	BT2I-C0
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	—	—	—	—	298-1083-ND	100	44.52	BT3I-C0
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	—	—	—	—	298-1084-ND	100	58.65	BT4I-C0
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1068-ND	100	22.67	BT2S-C	298-1085-ND	100	24.22	BT2S-C0
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	—	—	—	—	298-1086-ND	100	49.56	BT3S-C0
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	—	—	—	—	298-1087-ND	100	55.74	BT4S-C0
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	—	—	—	—	298-1092-ND	50	55.24	BT5LH-L0
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1077-ND	50	62.91	BT7LH-L	298-1094-ND	50	76.88	BT7LH-L0
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1078-ND	50	79.66	BT8LH-L	—	—	—	BT8LH-L0
PAN-TY Releasable Cable Ties — RoHS Compliant												
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1057-ND	100	42.04	PRT2S-C	298-1060-ND	100	44.56	PRT2S-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1058-ND	100	71.17	PRT3S-C	298-1061-ND	100	79.59	PRT3S-C0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1059-ND	100	86.61	PRT4S-C	—	—	—	PRT4S-C0
SUPER-GRIP™ Cable Tie — RoHS Compliant												
1	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9928-ND	100	15.51	SG100M-C	298-9929-ND	100	20.35	SG100M-C0
	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9930-ND	1,000	31.44	SG100M-M	298-9931-ND	1,000	49.23	SG100M-M0
	40	6.2 (157)	0.168 (4.3)	1.50 (38)	298-9934-ND	1,000	48.08	SG150I-M	298-9933-ND	100	22.05	SG150I-C0
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	298-9936-ND	100	22.67	SG200S-C	298-9937-ND	100	24.22	SG200S-C0
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	—	—	—	—	298-9939-ND	1,000	72.63	SG200S-M0
	70	12.4 (315)	0.225 (5.7)	3.20 (81)	298-9940-ND	100	46.25	SG300S-C	298-9941-ND	100	49.56	SG300S-C0
	120	15.3 (389)	0.330 (8.4)	4.13 (105)	298-9944-ND	50	39.74	SG350LH-L	—	—	—	—
	120	15.3 (389)	0.330 (8.4)	4.13 (105)	298-9946-ND	250	132.18	SG350LH-TL	—	—	—	—
	70	15.3 (389)	0.225 (5.7)	4.20 (107)	298-9950-ND	1,000	192.99	SG370S-M	—	—	—	—
CONTOUR-TY™ Cable Tie — RoHS Compliant												
2	18	4.1 (104)	0.100 (2.5)	1.00 (25.4)	298-9908-ND	1,000	35.46	CBR1M-M	298-9909-ND	1,000	55.55	CBR1M-M0
	18	5.6 (142)	0.100 (2.5)	1.50 (38.1)	—	—	—	—	298-9907-ND	1,000	76.91	CBR1.5M-M0
	18	7.2 (183)	0.100 (2.5)	2.00 (50.8)	298-9912-ND	1,000	54.38	CBR2M-M	—	—	—	—
	50	14.0 (356)	0.190 (4.8)	4.00 (101.3)	—	—	—	—	298-9925-ND	1,000	245.81	CBR4S-M0
PAN-TY Clamp Tie with Mounting Hole — RoHS Compliant												
3	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1000-ND	100	34.03	PLC1M-S4-C	298-1005-ND	100	60.61	PLC1M-S4-C0
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1001-ND	100	34.21	PLC1.5I-S8-C	298-1006-ND	100	43.67	PLC1.5I-S8-C0
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1002-ND	100	36.20	PLC2S-S10-C	298-1007-ND	100	45.46	PLC2S-S10-C0
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1003-ND	100	83.59	PLC3S-S10-C	298-1008-ND	100	96.91	PLC3S-S10-C0
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1004-ND	100	94.50	PLC4S-S10-C	298-1009-ND	100	109.28	PLC4S-S10-C0
PAN-TY Flag Tie with Write On Area — RoHS Compliant												
4	18	4.3 (109.2)	0.812 (20.6)	0.87 (22.1)	298-1010-ND	100	35.15	PLF1M-C	—	—	—	—
	18	3.9 (99.1)	0.980 (24.9)	0.75 (19.1)	298-1011-ND	100	35.43	PLM1M-C	298-1014-ND	100	46.12	PLM1M-C0
PAN-TY Marker Tie with Write On Area — RoHS Compliant												
5	50	7.4 (188.0)	0.520 (13.2)	1.75 (45.0)	298-1012-ND	100	67.01	PLM2S-C	—	—	—	PLM2S-C0

(Continued)

Fig.	Min. Loop Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
PAN-TY Locking Clamp Tie – Nylon — RoHS Compliant								
3	50	7.9 (200.7)	0.190 (4.8)	1.84 (47)	298-9973-ND	100	45.46	PLC2S-S6-C0
Double Hose Clamp – Nylon — RoHS Compliant								
6	100	11.0 (279)	0.280 (7.1)	1.12 (28.4)†	298-9962-ND	50	64.86	DHC1.12X1.75-D0
BOW-TY® Cable Tie Two Loop – Nylon — RoHS Compliant								
6	50	7.6 (193)	0.190 (4.8)	1.8 (45.7)	298-9958-ND	100	53.56	PLB2S-C0
	50	11.8 (300)	0.190 (4.8)	3.0 (76.2)	298-9959-ND	100	56.52	PLB3S-C0
PAN-TY Wing Push Mount Offset – Nylon — RoHS Compliant								
7	50	6.97 (177)	0.190 (4.8)	1.57 (40)	298-9957-ND	50	16.50	PLUP40SE-D
PAN-TY Wing Push Mount – Nylon — RoHS Compliant								
7	18	4.3 (109.0)	0.098 (2.5)	0.87 (22.0)	298-1351-ND	100	33.08	PLWP1M-C
	50	5.2 (132.0)	0.190 (4.8)	1.00 (25.0)	298-1353-ND	100	39.65	PLWP1S-C
	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1349-ND	100	37.45	PLWP1.5I-C
	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1350-ND	500	101.90	PLWP1.5I-D
	50	7.8 (198.0)	0.190 (4.8)	1.75 (45.0)	298-1355-ND	100	45.67	PLWP2S-C

Fig.	Max. Bundle Diameter Inch (mm)	Length Inch (mm)	Thickness and Width Inch (mm)	Min. Loop Tensile Strength (Lbs.)	Recommend Installation Tools	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
WAVE-TY™ Superior Grip Stainless Steel Ties — RoHS Compliant									
8	6.00 (152)	20.5 (521)	.010 x .31 (.25 x 7.9)	200	GS4MT ST2MT or HTMT	298-1332-ND	50	96.44	MLT6WH-LP
	8.00 (203)	26.8 (631)		200		298-1333-ND	50	123.21	MLT8WH-LP
	10.00 (254)	33.0 (838)		200		298-1334-ND	50	154.01	MLT10WH-LP
Metal Locking Tie – Stainless Steel — RoHS Compliant									
9	1.00 (25.4)	5.0 (127.0)	.010 x .18 (.25 x 4.4)	100	GS4MT ST2MT or HTMT	298-1100-ND	100	74.51	MLT1S-CP
	2.00 (50.8)	7.9 (200.7)		100		298-1101-ND	100	72.59	MLT2S-CP
	4.00 (101.6)	14.2 (360.7)		100		298-1102-ND	100	86.90	MLT4S-CP
Metal Locking Tie – Nylon Coated — RoHS Compliant									
9	2.00 (50.8)	7.9 (200.7)	.010 x .31 (.25 x 7.9)	250	GS4MT, HTHM ST2MT or PPTMT	298-9970-ND	50	158.49	MLTC2H-LP316
	4.00 (101.6)	14.3 (362)		250		298-9971-ND	50	186.00	MLTC4H-LP316

Fig.	Length Inch (mm)	Width Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Tie Holder with Adhesive – Nylon — RoHS Compliant						
10	0.75 (19.1)	0.75 (19.1)	298-1116-ND	100	85.59	ABMM-A-C
	1.00 (25.4)	1.00 (25.4)	298-1118-ND	100	113.00	ABM100-A-C
	1.12 (28.6)	1.12 (28.6)	298-1268-ND	100	125.69	ABM112-A-C
	1.13 (28.7)	1.13 (28.7)	298-1117-ND	100	130.31	ABMS-A-C
	1.50 (38.1)	1.50 (38.1)	298-1119-ND	50	90.21	ABM3H-A-L

Fig.	Dimensions Inch (mm)			Pull Apart Force	Digi-Key Part No.	Price Each		Panduit Part No.
	A	B	C			1	50	
Swivel Cable Tie Mounts – Weather Resistant Black Nylon								
11	1.64 (41.66)	0.73 (18.54)	1.23 (31.24)	>250 lbs.	298-1307-ND	3.49	2.71	TMEH-X2-L0

Fig.	Width Inch (mm)	Max. Bundle Dia. Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Cable Clamp – Nylon — RoHS Compliant						
12	0.4 (9.5)	0.13 (3.2)	298-1120-ND	100	13.07	CCS12-S8-C
	0.4 (9.5)	0.25 (6.4)	298-1121-ND	100	13.60	CCS25-S8-C
	0.4 (9.5)	0.38 (9.7)	298-1122-ND	100	14.72	CCS38-S8-C
	0.4 (9.5)	0.50 (12.7)	298-1123-ND	100	15.61	CCS50-S8-C

Fig.	Dimension A Inch	Digi-Key Part No.	Price Each	Panduit Part No.
PAN-CLAMP™ Heavy Duty Fixed Diameter Clamps — RoHS Compliant				
13	3/4	298-1302-ND	.47	PC075-H25D-C0
	7/8	298-1303-ND	.89	PC087-H25D-C0
	1	298-1304-ND	.95	PC100-H25D-C0
	1 1/8	298-1305-ND	1.01	PC112-H25D-C0
	1 1/4	298-1306-ND	1.07	PC125-H25D-C0

Fig.	Max. Cable Width Inch (mm)	Mounting Method	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			Panduit Part No.
					1	50	100	
Type FCM Adhesive Mount For Stack Height up to .17" (4.3mm) – Nylon, Gray — RoHS Compliant								
14A	1.0 (25.4)	Adh. Foam Tape	1.21 (30.7)	298-1309-ND	1.26	—	.99	FCM1-A-C14
	1.0 (25.4)	#6 Screw	1.21 (30.7)	298-1314-ND	1.20	—	.94	FCM1-S6-C14
	1.2 (30.5)	Adh. Foam Tape	1.37 (34.8)	298-1310-ND	1.38	—	1.08	FCM1.2-A-C14
	1.2 (30.5)	#6 Screw	1.37 (34.8)	298-1315-ND	1.28	—	1.01	FCM1.2-S6-C14
	2.0 (50.8)	Adh. Foam Tape	2.22 (56.3)	298-1311-ND	1.40	—	1.10	FCM2-A-C14
	2.0 (50.8)	#6 Screw	2.22 (56.3)	298-1316-ND	1.33	—	1.05	FCM2-S6-C14
	3.25 (82.6)	Adh. Foam Tape	3.38 (85.9)	298-1312-ND	2.11	1.65	—	FCM3.25-A-L14
	3.25 (82.6)	#6 Screw	3.38 (85.9)	298-1317-ND	1.82	1.42	—	FCM3.25-S6-L14
Type FCH Adhesive Mount For Stack Height up to .25" (6.3mm) – Nylon, TELCO Gray — RoHS Compliant								
14B	2.00 (50.8)	Adh. Foam Tape	2.5 (63.5)	298-1313-ND	2.17	—	1.69	FCH2-A-C14
	2.00 (50.8)	#6 Screw	2.5 (63.5)	298-1318-ND	1.96	—	1.52	FCH2-S6-C14

Fig.	Dimensions Inch (mm)			Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
	A	Diameter	B				
Circuit Board Post – Nylon — RoHS Compliant							
15	0.12 (3.0)	0.19 (4.7)	0.4 (10.3)	298-1128-ND	100	24.47	CBP12-C
	0.25 (6.4)	0.19 (4.7)	0.5 (13.5)	298-1129-ND	100	25.10	CBP25-C
	0.37 (9.4)	0.19 (4.7)	0.7 (16.6)	298-1130-ND	100	25.55	CBP37-C
	0.50 (12.7)	0.19 (4.7)	0.8 (19.8)	298-1131-ND	100	26.03	CBP50-C
	0.75 (19.1)	0.19 (4.7)	1.0 (26.2)	298-1132-ND	100	27.96	CBP75-C
	1.00 (25.4)	0.19 (4.7)	1.3 (32.5)	298-1133-ND	100	30.07	CBP100-C
Lock Circuit Board Support – Nylon — RoHS Compliant							
16	0.25 (6.4)	0.156 / 0.187 (3.96 /4.75)	0.98 (24.9)	298-1134-ND	100	23.16	CBLS25-C
	0.50 (12.7)		1.23 (31.2)	298-1135-ND	100	26.10	CBLS50-C
	0.75 (19.1)		1.48 (37.5)	298-1136-ND	100	29.61	CBLS75-C

Fig.	Min. #'s Loop Tensile Strength	Length Inch (mm)	Cable Diameter Inch (mm)	Hole Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Push Cable Tie Mount, STD – Natural — RoHS Compliant								
17	18-50	0.6 (16.0)	0.23 (5.8)	0.25 (6.4)	298-1143-ND	100	44.02	PWMS-H25-C
Push Cable Tie Mount – Natural — RoHS Compliant								
18	18-50	0.44 (11.18)	0.21 (5.33)	0.25 (6.4)	298-9968-ND	1,000	186.35	PM2H25-M0

Fig.	Max. Bundle Dia. - Inch (mm)	Dimensions - In. (mm)		Mat'l/ Color	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
		A	B					
Push Mount Wire Saddle (Vertical) — RoHS Compliant								
19	0.42 x 0.18 (11 x 5)	0.58 (14.7)	0.60 (15.2)	Nylon Natural	298-1319-ND	100	11.03	VWS4218-C
	0.42 x 0.40 (11 x 10)	0.78 (19.8)	0.60 (15.2)		298-1320-ND	100	11.43	VWS4238-C
	0.42 x 0.74 (11 x 19)	1.14 (29)	0.60 (15.2)		298-1321-ND	100	16.69	VWS4274-C
	0.42 x 1.05 (11 x 27)	1.45 (36.8)	0.60 (15.2)		298-1322-ND	100	18.06	VWS42105-C

Fig.	Max. Cable Diameter Inch (mm)	Dimension Thickness Inch (mm)	Hole Size Inch (mm)	Digi-Key Part No.	Pkg. Qty	Price/ Pkg.	Panduit Part No.
Push Mount Cord Clip – Natural — RoHS Compliant							
20	0.38 (9.6)	0.105 (2.7)	0.25 (6.4)	298-9969-ND	1,000	277.49	PMCC38H25-M0

Fig.	Min. #'s Loop Tensile Strength	Clip Length Inch (mm)	Base Width Inch (mm)	Clip Height Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Adhesive Backed Cord Clips – Nylon — RoHS Compliant								
21	50	1.00 (25.4)	1.00 (25.4)	0.38 (9.7)	298-1376-ND	100	74.01	ACC38-A-C

Fig.	Recommended Mount Stud	Dimensions Inch (mm)			Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
		Length	Width	Height				
Tie Mount – Threaded Stud — RoHS Compliant								
22	M6	1.25 (31.8)	0.48 (12.2)	0.95 (24.1)	298-9965-ND	1,000	208.89	TMSTLHS6-M0
	M8	1.25 (31.8)	0.48 (12.2)	0.95 (24.1)	298-9966-ND	1,000	208.89	TMSTLHS8-M0

Fig.	Dimensions Inch (mm)			Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
	Length	Width	Height				
Pushbutton Mount – Nylon — RoHS Compliant							
23	0.45 (11.4)	0.16 (4.1)	0.41 (10.4)	298-9967-ND	1,000	239.81	PBMS-H25-M0

Fig.	Dimensions Inch (mm)		Digi-Key Part No.	Price Each			Panduit Part No.
	Tie Length	Base Length		1	10	25	
Dynamic Cable Manager — RoHS Compliant							
24	1.12 (28.5)	1.12 (28.5)	298-10090-ND	27.10	24.12	22.88	ABDCM30 -A-E

Length Feet (meters)	Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Spiral Wrap – Natural — RoHS Compliant					
100 (30.48)	0.125 (3.2)	298-1137-ND	1 Reel	40.87	T12F-C
	0.250 (6.4)	298-1138-ND	1 Reel	53.55	T25F-C
	0.500 (12.7)	298-1139-ND	1 Reel	145.96	T50F-C
	0.750 (19.1)	298-1140-ND	1 Reel	177.78	T75F-C
Corrugated Loom Tubing – Black — RoHS Compliant					
100 (30.48)	0.250 (6.4)	298-1141-ND	1 Reel	35.70	CLT25F-C20
	0.500 (12.7)	298-1142-ND	1 Reel	44.69	CLT50F-C20

Length Feet (meters)	Width Inch (mm)	Height Inch (mm)	Panel Thickness Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Grommet Edging – Natural — RoHS Compliant							
100 (30.48)	0.106 (2.7)	0.12 (3.0)	.026 (.7) - .036 (.9)	298-1145-ND	1 Reel	33.93	GEE36F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1146-ND	1 Reel	35.07	GEE62F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1147-ND	1 Reel	47.32	GEE62FR-C
	0.169 (4.3)	0.19 (4.7)	.62 (1.6) - .099 (2.5)	298-1148-ND	1 Reel	62.02	GEE99FR-CY

† See datasheet for additional dimensions

(Continued)

PANDUIT ## Wire Ties and Accessories *(Cont.)*

TAK-TY®

Fig. 1

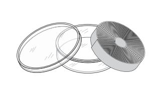

Fig. 2

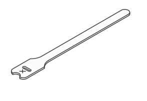

Fig. 3

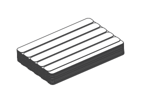

Fig. 4

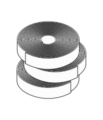

Fig. 5

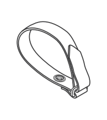

Fig. 6

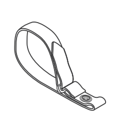

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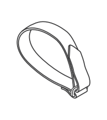

Fig.	Min.Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Dia.Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
TAK-TY® (VELCRO®*) Easy Release and Reuse Brand Cable Tie – Black								
1	50	6.0 (152.4)	0.75 (19.1)	1.5 (38.1)	298-1110-ND	10	11.86	HLS1.5S-X0
	50	12.0 (304.8)	0.75 (19.1)	3.0 (76.2)	298-1111-ND	10	19.79	HLS3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.0 (127.0)	298-1112-ND	10	28.83	HLS5S-X0
	40	20.0ft. (6.09m)	0.75 (19.1)	Various	298-4014-ND	1	16.63	TTS-20R0
	50	15.0ft. (4.572m)	0.75 (19.1)	Various	298-1115-ND	1 Reel	18.98	HLS-15R0
2	40	8.0 (203.2)	0.50 (12.7)	1.9 (48.3)	298-1113-ND	10	13.68	HLT2I-X0
	40	12.0 (304.8)	0.50 (12.7)	3.2 (81.3)	298-1114-ND	10	17.77	HLT3I-X0
3	50	7.0 (178.0)	0.75 (19.1)	1.6 (41.0)	298-4009-ND§	1	80.90	HLB2S-C0
4	40	35.0ft. (10.66m)‡	0.75 (19.1)	Various	298-4010-ND	3 Rolls	58.16	TTS-35R3-0
5	50	12.0 (304.8)	0.85 (21.6)	3.0 (76.2)	298-4012-ND	10	22.20	UGCTC3S-X0
6	50	12.0 (304.8)	0.85 (21.6)	3.0 (76.2)	298-4013-ND	10	22.20	UGCTE3S-X0
7	50	12.0 (304.8)	0.75 (19.1)	3.0 (76.2)	298-1108-ND	10	20.08	HLC3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.0 (127.0)	298-1109-ND	10	24.60	HLC5S-X0
	50	12.0 (304.8)	0.85 (21.6)	3.0 (76.2)	298-4011-ND	10	14.31	UCT3S-X0

* VELCRO is a registered trademark of the Velcro Companies ‡ Length indicates total of 3 rolls § 1 Brick = 100 Ties

Tools

Fig. 1

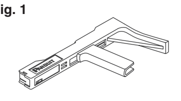

Fig. 2

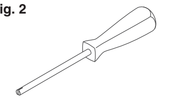

Fig. 3

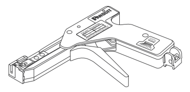

Fig. 4

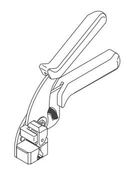

Fig	Description	Digi-Key Part No.	Price Each	Panduit Part No.
Gun Cable Tie Tools				
1	Black Handle, Tensile Strength: ≤ 50 lbs.	298-1097-ND	26.39	STS2
3	Black Plastic and Metal Body, Tensile Strength: ≤ 50 lbs.	298-1098-ND	204.22	GS2B
3	Red Handle and Metal Body, Tensile Strength: ≤ 50 lbs.	298-1099-ND	349.95	GS4H
Stainless Steel Locking Tie Tool				
2	Screwdriver Type, For Tension/Coil Tail of Tie	298-1105-ND	19.00	HTMT
3	Gun Type	298-1107-ND	674.28	GS4MT
4	Ratchet Type, To Control Tension and Cutoff	298-1106-ND	333.46	ST2MT

BIVAR MOVING LIGHT

Crystal Insulators

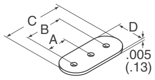

Material Specifications: Dupont, Mylar EL-21 with UL Rated 94V-2

Dimensions — Inch (mm)				Use With	Digi-Key Part No.	Pricing		Bivar Part No.
A	B	C	D			10	100	
—	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1037-ND	.82	4.50	CI-148-028 SR
.074 (1.9)	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1038-ND	.82	4.50	CI-148-028-3 SR
—	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1039-ND	.80	4.40	CI-192-028 SR
.096 (2.4)	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1040-ND	.80	4.40	CI-192-028-3 SR

Nylon Spacers

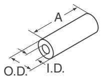

Material Specifications:
Natural Nylon, per ASTM D 4066 PA 225, UL Rated 94V-2

Screw Size	Dimensions — Inch (mm)			Digi-Key Part No.	Pricing		Bivar Part No.
	A	ID	OD		10	100	
#2	1/16 (1.6)	.091 (2.3)	.187 (4.7)	492-1041-ND	.65	3.58	9913-062
	1/8 (3.2)	.091 (2.3)	.187 (4.7)	492-1042-ND	.65	3.58	9913-125
	3/16 (4.8)	.091 (2.3)	.187 (4.7)	492-1043-ND	.65	3.58	9913-187
	1/4 (6.4)	.091 (2.3)	.187 (4.7)	492-1044-ND	.65	3.58	9913-250
	5/16 (7.9)	.091 (2.3)	.187 (4.7)	492-1045-ND	.65	3.58	9913-312
	3/8 (9.5)	.091 (2.3)	.187 (4.7)	492-1046-ND	.70	3.85	9913-375
	7/16 (11.1)	.091 (2.3)	.187 (4.7)	492-1047-ND	.70	3.85	9913-437
	1/2 (12.7)	.091 (2.3)	.187 (4.7)	492-1048-ND	.70	3.85	9913-500
	5/8 (15.9)	.091 (2.3)	.187 (4.7)	492-1050-ND	.75	4.13	9913-625
	13/16 (20.6)	.091 (2.3)	.187 (4.7)	492-1052-ND	.82	4.50	9913-812
	1/16 (1.6)	.091 (2.3)	.250 (6.4)	492-1056-ND	.65	3.58	9910-062
	1/8 (3.2)	.091 (2.3)	.250 (6.4)	492-1057-ND	.65	3.58	9910-125
	3/16 (4.8)	.091 (2.3)	.250 (6.4)	492-1058-ND	.65	3.58	9910-187
	1/4 (6.4)	.091 (2.3)	.250 (6.4)	492-1059-ND	.65	3.58	9910-250
	5/16 (7.9)	.091 (2.3)	.250 (6.4)	492-1060-ND	.66	3.65	9910-312
	3/8 (9.5)	.091 (2.3)	.250 (6.4)	492-1061-ND	.70	3.85	9910-375
	7/16 (11.1)	.091 (2.3)	.250 (6.4)	492-1062-ND	.70	3.85	9910-437
	1/2 (12.7)	.091 (2.3)	.250 (6.4)	492-1063-ND	.70	3.85	9910-500
#4	1/16 (1.6)	.125 (3.2)	.187 (4.7)	492-1071-ND	.65	3.58	9908-062
	1/8 (3.2)	.125 (3.2)	.187 (4.7)	492-1072-ND	.65	3.58	9908-125
	3/16 (4.8)	.125 (3.2)	.187 (4.7)	492-1073-ND	.65	3.58	9908-187
	1/4 (6.4)	.125 (3.2)	.187 (4.7)	492-1074-ND	.65	3.58	9908-250
#4	5/16 (7.9)	.125 (3.2)	.187 (4.7)	492-1075-ND	.65	3.58	9908-312
	3/8 (9.5)	.125 (3.2)	.187 (4.7)	492-1076-ND	.70	3.85	9908-375
	7/16 (11.1)	.125 (3.2)	.187 (4.7)	492-1077-ND	.70	3.85	9908-437
	1/2 (12.7)	.125 (3.2)	.187 (4.7)	492-1078-ND	.70	3.85	9908-500
	9/16 (14.3)	.125 (3.2)	.187 (4.7)	492-1079-ND	.70	3.85	9908-562
	5/8 (15.9)	.125 (3.2)	.187 (4.7)	492-1080-ND	.75	4.13	9908-625
	3/4 (19.1)	.125 (3.2)	.187 (4.7)	492-1081-ND	.75	4.13	9908-750
	1/16 (1.6)	.125 (3.2)	.250 (6.4)	492-1086-ND	.65	3.58	9911-062
	1/8 (3.2)	.125 (3.2)	.250 (6.4)	492-1087-ND	.65	3.58	9911-125
	3/16 (4.8)	.125 (3.2)	.250 (6.4)	492-1088-ND	.65	3.58	9911-187
	1/4 (6.4)	.125 (3.2)	.250 (6.4)	492-1089-ND	.65	3.58	9911-250
	5/16 (7.9)	.125 (3.2)	.250 (6.4)	492-1090-ND	.66	3.65	9911-312
	3/8 (9.5)	.125 (3.2)	.250 (6.4)	492-1091-ND	.70	3.85	9911-375
	7/16 (11.1)	.125 (3.2)	.250 (6.4)	492-1092-ND	.70	3.85	9911-437
	1/2 (12.7)	.125 (3.2)	.250 (6.4)	492-1093-ND	.70	3.85	9911-500
	9/16 (14.3)	.125 (3.2)	.250 (6.4)	492-1094-ND	.70	3.85	9911-562
	3/4 (19.1)	.125 (3.2)	.250 (6.4)	492-1096-ND	.75	4.13	9911-750
	13/16 (20.6)	.125 (3.2)	.250 (6.4)	492-1097-ND	.80	4.40	9911-812
	15/16 (23.8)	.125 (3.2)	.250 (6.4)	492-1099-ND	.82	4.50	9911-937
#6	1/16 (1.6)	.147 (3.7)	.250 (6.4)	492-1101-ND	.65	3.58	9905-062
	1/8 (3.2)	.147 (3.7)	.250 (6.4)	492-1102-ND	.65	3.58	9905-125
	3/16 (4.8)	.147 (3.7)	.250 (6.4)	492-1103-ND	.65	3.58	9905-187
	1/4 (6.4)	.147 (3.7)	.250 (6.4)	492-1104-ND	.65	3.58	9905-250
	5/16 (7.9)	.147 (3.7)	.250 (6.4)	492-1105-ND	.65	3.58	9905-312
	3/8 (9.5)	.147 (3.7)	.250 (6.4)	492-1106-ND	.70	3.85	9905-375
	7/16 (11.1)	.147 (3.7)	.250 (6.4)	492-1107-ND	.70	3.85	9905-437
	1/2 (12.7)	.147 (3.7)	.250 (6.4)	492-1108-ND	.70	3.85	9905-500
	9/16 (14.3)	.147 (3.7)	.250 (6.4)	492-1109-ND	.70	3.85	9905-562
	5/8 (15.9)	.147 (3.7)	.250 (6.4)	492-1110-ND	.75	4.13	9905-625
	3/4 (19.1)	.147 (3.7)	.250 (6.4)	492-1111-ND	.75	4.13	9905-750
	13/16 (20.6)	.147 (3.7)	.250 (6.4)	492-1112-ND	.80	4.40	9905-812
#8	1/8 (3.2)	.171 (4.3)	.250 (6.4)	492-1117-ND	.65	3.58	9912-125
	3/16 (4.8)	.171 (4.3)	.250 (6.4)	492-1118-ND	.65	3.58	9912-187
	1/4 (6.4)	.171 (4.3)	.250 (6.4)	492-1119-ND	.65	3.58	9912-250
	5/16 (7.9)	.171 (4.3)	.250 (6.4)	492-1120-ND	.65	3.58	9912-312
	3/8 (9.5)	.171 (4.3)	.250 (6.4)	492-1121-ND	.70	3.85	9912-375
	7/16 (11.1)	.171 (4.3)	.250 (6.4)	492-1122-ND	.70	3.85	9912-437
	1/2 (12.7)	.171 (4.3)	.250 (6.4)	492-1123-ND	.70	3.85	9912-500
	9/16 (14.3)	.171 (4.3)	.250 (6.4)	492-1124-ND	.70	3.85	9912-562
	5/8 (15.9)	.171 (4.3)	.250 (6.4)	492-1125-ND	.75	4.13	9912-625
	3/4 (19.1)	.171 (4.3)	.250 (6.4)	492-1126-ND	.75	4.13	9912-750

Panasonic® Magnetic Card Readers

Fig. 1

Manual Swipe Card Readers: • Compact and lightweight designs • High performance head mechanism

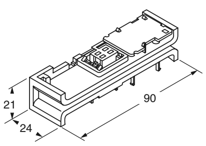

Applications: • Credit authorization terminals • Credit card telephones • POS terminals • Time and attendance terminals • Banking terminals (ATM/CD)

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: PCR100/102/221 – 300K passes; PCR223/224 – 1Million passes

Fig. 2

Manual Insertion Card Reader: • High precision, high reliability

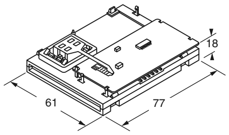

Applications: • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Fig. 3

Manual Insertion Card Readers with Smart Card Capabilities ZU-98302SEA/ZU-98330SEA:

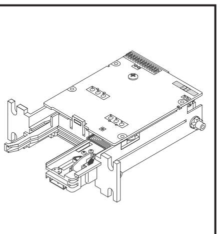

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -25°C ~ 70°C, 10% ~ 90% RH (non condensing)

Interface: • Magnetic Card: Direct output of decoder IC-CMOS 0 ~ 5V • Smart Card: Contacts only, no interface. Reader will "lock" card until transaction is complete. • Head/Contact Life: 500K

Fig. 4

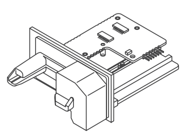

Manual Insertion Card Readers ZU-1870MA6T2, ZU-1852MAL5, ZU-1870MA5T5, ZU-1870MA4T4: • High precision, high reliability **Applications:** • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: PCR109 – 300K passes; PCR106/107/113 – 500K passes

Manual Insertion Card Reader ZU-1870MA8R2 with Built-In RS-232 Interface and Decoder: **Applications:** • For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance **Specifications:** • Power Supply Voltage: 4.75V ~ 12V • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 500K passes **Notes:** Cable is not included. Demo software is available but is not included.

Manual Insertion Magnetic Card Reader with USB ZU-1870MU1: • USB (keyboard emulation) interface • Can use standard Windows XP driver for communications (HID). No third party device driver is required. **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90% RH • Head Life: 500K **Applications:** • For outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance

Fig. 5

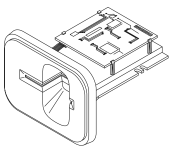

Manual Insertion Card Reader ZU-1890M: • High precision, high reliability **Applications:** • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Manual Insertion Card Reader ZU-1890MR02, with Built-in RS-232 Interface and Decoder: • For indoor applications **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 300K passes

Manual Insertion Magnetic Card Reader ZU-1890MU1 with USB: • USB (Keyboard Emulation) Interface • Communications with a Host Computer through USB connection • Reads Track 1 and 2 of standard Magnetic Stripe Cards per ISO standards • No external power supply required • Can use standard Windows XP drivers for communications (HID). No third party device driver is required **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Fig. 6

Manual Insertion Card Reader ZU-1870MA8R with Built-in RS-232 Interface and Decoder: **Specifications:** • Power Supply Voltage: 4.75V ~ 12V • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 500K passes

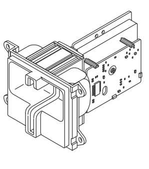

Manual Insertion/Ejection Magnetic Card Reader ZU-1870MU with USB: • USB (Keyboard Emulation) Interface • Can use standard Windows XP driver for communications (HID). No third party device driver is required **Specifications:** Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90%RH • Head Life: 500K passes **ZU-1870MA8R/MU:** **Applications:** • For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance **Notes:** Cable is not included

Fig. 7

Manual Magnetic Card Reader ZU-9A36B1: **Specifications:** • Physical Dimensions: (W) 73mm x (H) 12.6mm x (D) 108.5mm • Mass: Approximately 50g **Power Source:** • Voltage: 5.0VDC (tolerance ±10%), Ripple 250mVp-p **Interface:** • Magnetic card: Direct output of decoder IC (/RCL,/RDT) **Environment:** • Operating Temperature/Humidity: 0°C ~ 55°C / 10 ~ 90%RH (non condensing) • Storage Temperature/Humidity: -20°C ~ 60°C / 5 ~ 95%RH (non condensing) **Specification of Magnetic Reading:** • Reading direction: Insertion/Ejection • Head Life: 300K passes • Core Width: 1.4mm • Reading Speed: 15cm/s ~ 70cm/s

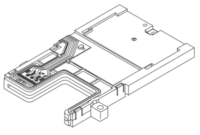

Fig. 8

Manual Magnetic Card Reader ZU-M2242S3R2: • High precision, high reliability

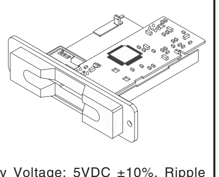

Applications: • Credit card telephones • Gaming • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals

Specifications: • Power Supply Voltage: 5VDC ±10%, Ripple (less than 50mVp-p) • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH (No condensation allowed 24 hours) • Storage Temperature/Humidity: -20°C ~ 60°C / 10 ~ 95%RH (No condensation allowed 24 hours) • Head life: 300K passes

Fig.	Card Standard	Current (mA)	Card Feed Speed	Card Reading Direction	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	IS02	3	8 ~ 150 cm/second	Swipe	PCR100-ND	28.22	22.58	18.35	ZU-M1121S1
	IS02	3	8 ~ 150 cm/second	Swipe	PCR224-ND◆	34.82	27.86	22.64	ZU-M1121L1
	IS01/IS02	6	10 ~ 150 cm/second	Swipe	PCR102-ND	43.56	34.85	28.32	ZU-M1242S1
	IS01/IS02	6	10 ~ 150 cm/second	Swipe	PCR223-ND◆	50.16	40.13	32.61	ZU-M1242L1
	IS01/IS02/IS03	9	10 ~ 120 cm/second	Swipe	PCR221-ND◆	97.40	77.92	63.31	ZU-M1363S1
2	IS02	10	10 ~ 120 cm/second	Insertion	PCR115-ND◆	44.60	35.68	28.99	ZU-M2121S21
3	IS01/IS02/IS03+Smart Card	15	10 ~ 80 cm/second	Ejection	PCR228-ND◆	150.00	120.00	97.50	ZU-98330SEA
4	IS01/IS02	25	10 ~ 100 cm/second	Ejection	PCR113-ND	74.00	59.20	48.10	ZU-1870MA6T2
	IS02	15	10 ~ 120 cm/second	Ejection	PCR106-ND	55.86	44.69	36.31	ZU-1852MAL5
	IS01/IS02	15	10 ~ 100 cm/second	Ejection	PCR107-ND	63.12	50.50	41.03	ZU-1870MA5T5
	IS01/IS02	15	10 ~ 150 cm/second	Ejection	PCR109-ND◆	59.70	47.76	38.81	ZU-1870MA4T4
	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR118-ND◆	125.50	100.40	81.58	ZU-1870MA8R2
	IS01/IS02	40	10 ~ 120 cm/second	USB, Ejection	PCR226-ND◆	124.00	99.20	80.60	ZU-1870MU1
5	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR114-ND	109.00	87.20	70.85	ZU-1890MR02
	IS01/IS02	15	10 ~ 150 cm/second	Ejection	PCR111-ND	67.50	54.00	43.88	ZU-1890M
	IS01/IS02	100	10 ~ 120 cm/second	USB, Ejection	PCR220-ND◆	109.00	87.20	70.85	ZU-1890MU1
6	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR117-ND◆	125.50	100.40	81.58	ZU-1870MA8R
	IS01/IS02	40	10 ~ 120 cm/second	USB, Ejection	PCR222-ND◆	122.00	97.60	79.30	ZU-1870MU
7	IS01/IS02/IS03	15	15 ~ 70 cm/second	Ejection	PCR119-ND◆	76.00	60.80	49.40	ZU-9A36B11
8	IS01/IS02	30	10 ~ 120 cm/second	Ejection	PCR225-ND◆	151.62	121.30	98.56	ZU-M2242S3R2
Cover for Single/Double Manual Swipe Reader (Use with PCR100-ND, PCR102-ND)					PCR104-ND	5.26	—	—	U1101M041
Bezel for ZU-M2121 Series ESD					PCR227-ND◆	4.68	3.75	3.05	ZU-M202BB2

◆ *RoHS Compliant*

Cable Assembly

PCR121-ND	Cable Assembly for PCR100-ND	**$7.29**
PCR122-ND	Cable Assembly for PCR102-ND	**$10.82**
PCR120-ND	Cable Assembly for PCR220-ND	**$13.45**
PCR123-ND	Cable Assembly for PCR221-ND	**$14.53**
PCR124-ND	Cable Assembly for PCR114-ND, PCR-117-ND, PCR118-ND	**$22.19**

OMRON® Magnetic Swipe Card Readers

Features: • Low cost • Compact • Manual swipe reader **Specifications:** • Low power C-Mos technology • TTL-compatible interface (clock and data) • Cable harness included on V3B Series only • Mating connector for V3A Series is WM1727-ND (Housing) and WM1775-ND (Contact)

Fig.	Color	Communication Interface	Cover	Supply Voltage	Track 1	2	3	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Swipe Type												
1	Black	TTL (Clock + Data)	Yes	5VDC	—	Read	—	Z2066-ND	33.26	29.94	26.61	V3B-4K
	Ivory	TTL (Clock + Data)	Yes	5VDC	—	Read	—	Z2064-ND◆	29.56	26.61	23.66	V3A-4K
	Ivory	TTL (Clock + Data)	No	5VDC	Read	Read	—	Z2065-ND◆	45.39	40.85	36.32	V3A-6
	Ivory	RS232C (with cable)	Yes	5VDC	Read	Read	Read	Z2111-ND◆	209.69	188.72	167.75	3S4YR-HNF1
Insert Type Readers												
2	Black	TTL (Clock + Data)	No	5VDC	—	Read	—	Z2112-ND	48.36	43.53	38.69	3S4YR-SBR-4N-50
	Black	TTL (Clock + Data)	No	5VDC	Read	Read	Read	Z2114-ND	191.25	172.13	153.00	3S4YR-SGR1N

◆ *RoHS Compliant*

Fig. 1

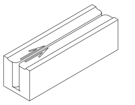

Fig. 2

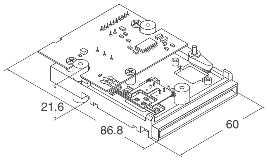

CITIZEN® Printers

THERMAL PRINTERS:

Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer.

The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:

Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

Fig. 1 – Line Printer

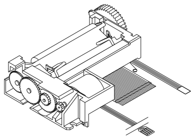

EPL1600 Series

- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Operatable by batteries (4.2 to 8.5 volts)
- Low current consumption
- Semi-auto paper loading function

NOTE: Available in 58, 80, and 112mm paper widths

Fig. 2 – Miniature Line Printer

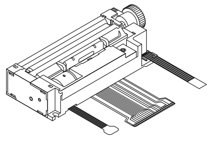

EPL1802S2 Series

- High speed printing
- Very small size
- Very light weight (40g)
- Low power consumption

Fig. 3 – Compact Line Printer

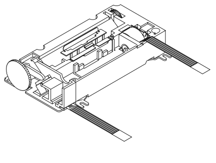

EPL1900 Series

- Compact size
- Low weight (55g)
- High reliability
- Easy maintenance

Fig.	Print Method	Paper Width	Head Volt	Logic Volt	Print Speed (max.)	Char. / Line	Head Life	Size (mm)	Digi-Key Part No.	Price Each	Citizen Part No.
1	Line	80mm	5V	5V	400 dots-line/s max.	36/72	5x107 pulse/50km	101 x 52 x 20	471-1001-ND	90.27	EPL1602S3
2	Line	58mm	5V	5V	450 dots-line/s max.	24/48	1x108 pulse/50km	72 x 32 x 15	471-1032-ND	84.96	EPL1802S2
3	Line	58mm	5V	5V	300 dots-line/s max.	24/36	5x107 pulse/30km	82 x 41 x 15.8	471-1033-ND	28.92	EPL1902S2C

Interface Boards

EPLR1601Series

- Supports EPLR1600 series
- 364 built in character fonts
- ASCII JIS C6220 character codes
- Automatic loading
- Marker detection
- Bar code printing (UPC, JAN, EAN, CODE39, ITF, NW7)
- Operates on 5 volts EPLR1601

Description	Digi-Key Part No.	Price Each	Citizen Part No.
Interface Board for EPL1900 Series	471-1035-ND	147.50	EPLZR1901E
Power Cable for EPLR1601/1701 Interface Boards	471-1017-ND	5.66	EPLSRDSP303
RS232 Cable for EPLR1601/1701 Interface Boards	471-1019-ND	4.13	EPLSRDSP305
Centronics Cable for EPTR2000L/H Interface Boards	471-1021-ND	4.17	EPLSRDSP276
EPLR1601 CPU Replacement Chip for User Designed Interfaces	471-1023-ND	17.52	EPLSAR1601
EPLR1701 CPU Replacement Chip for User Designed Interfaces	471-1024-ND	17.52	EPLSAR1701

Thermal Line Printer CBM270

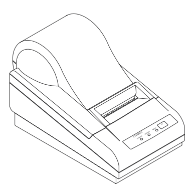

Features:

- Palm size
- Lightweight
- Availability of wall mount
- Paper auto loading
- Bar-code printing
- Compatibility (ESC/POS)
- Paper near end sensor
- 2K bytes input buffer
- Black and red printing with special paper (optional)

Applications:

• POS • Banking • Medical equipment • Coupon • Ticket • Daily report • Delivery • Barcode

Specifications:

• **Printing Method:** Line thermal dot printing • **Printing Width:** 48mm (384 dots/line) • **Printing Speed:** Maximum 50mm/second, 400 dot-line/second (11 lines/sec.) • **Number of Columns:** ***Font A:*** 32 columns; Font B: 42 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots), ***Font B:*** 0.88 x 3.00 mm (9 x 24 dots) • **Dot Pitch:** 8 dots/mm • **Bar-code Type:** UPS-A/E, JAN (EAN), ITF, CODABAR, CODE 39, CODE 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command (Minimum 1/203 inch) • **Printing Paper:** ***Thermal Roll Paper:*** 58 x ø83mm (max.) ***Thickness:*** 60~75µm ***Thermal Label Paper:*** 58 x ø83 (maximum) ***Thickness:*** 150µm label ***Label Width:*** 56mm (maximum) ***Label Length:*** 25mm/pc (minimum) • **Interface:** ***Parallel:*** Centronics, ***Serial:*** RS-232C • **Input Buffer:** 2K bytes • **Paper Supply:** DC 7.2V 2A (Peak 6A) or AC adapter AC 100-240V (27 AD) • **Weight:** Approximately 600g • **External Dimensions (W x D x H):** 106 x 184 x 110mm • **Reliability:** ***Head:*** 50,000,000 pulses or 50km • **Safety Standard:** FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each	Citizen Part No.
Parallel, 120V, Ivory	471-1050-ND	168.98	CBM-270PF 120V

Impact Printers IDP3550/3551

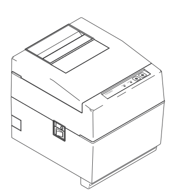

Features:

- High-speed printing
- Paper auto loading
- Compatibility (CBM, IDP, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Cash drawer kick out
- Pinfeed version (iDP3550P)
- Two color printing

Applications:

• Receipt • Journal • Ticket • Label • Credit/Debit • Daily report • Kitchen • Delivery

Specifications:

• **Printing Method:** Serial dot impact • **Printing Direction:** Bidirectional • **Font:** 7 x 9 matrix • **Number of Columns:** 40 columns • **Printing Speed:** 3.6 lines/second (DP-654); 3.0 lines/second (DP-657) • **Character Size (W x H):** 1.36 x 2.4mm (DP-654); 1.20 x 2.4mm (DP-657) • **Character Set:** Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code • **Line Spacing:** 4.23mm, 1/6" (DP-654); 2.82mm (DP-657) • **Character Pitch:** 1.59mm (DP-654); 1.46mm (DP-657) • **Line Feed Speed:** 18 lines/second (DP-654); 15 lines (DP-657) • Paper Feed Method: Friction • **Paper:** 76mm roll paper • **Interface:** ***Parallel:*** Centronics ***Serial:*** RS-232C or Current loop • **Input Buffer:** 6K bytes • **Paper End Sensor:** Equipped • **Paper Cutter:** None (iDP3550); Partial/Full cut (iDP3551F) • **Paper Winder:** AW-3 (Option) • **Cash Drawer Control:** 2 drawers • **Ink Ribbon:** Red/Black, Cassette • **Power Supply:** AC 120V • **Power Consumption:** 30W • **Weight:** 2.8kg (iDP3550); 3.0kg (iDP3551F) • **External Dimensions (W x D x H):** 160 x 212 x 194mm (iDP3550); 160 x 212 x 173mm (iDP3551F) • **Operating Temperature Range:** 0°C ~ 40°C • **Storage Temperature Range:** -20°C ~ 60°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters ***Cutter:*** 500,000 cuts (iDP3551F) • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each	Citizen Part No.
Cool White, 120V, Parallel	471-1057-ND	173.60	IDP3550PF-CW
Cool White, 120V, Serial Cutter	471-1062-ND	194.10	IDP-3551RF-CW

PANDUIT®

Thermal Transfer Printer Labels, Cassettes and Accessories

LS6 Thermal Transfer Printer Labels

Component Labels

Label Size A x B (In.)	Material	Color	Digi-Key Part No.	Roll Pricing 250	Panduit Part No.
1.00x0.75	Vinyl Cloth	White	298-4004-ND	31.89	TC-4C

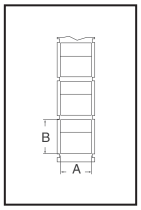

Printer Accessories

Description	Digi-Key Part No.	Price Each	Panduit Part No.
Replacement AC Adapter/Battery Charger	298-1226-ND	111.35	LS6-ACS

Laser Printable Labels

(Functions with most Desktop Laser Printers)

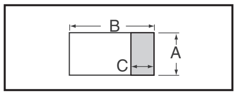

Laser Self-Laminated Wire Markers — White Polyester (Box)

Label Size		Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Qty.	Pricing	Panduit Part No.
A x B (In.)	C Print Area (In.)						
1.00x1.00	0.34	0.11~0.21	12-10 AWG	298-1162-ND	2,500	200.54	LJSL4-Y3-2.5
1.00x1.33	0.50	0.16~0.26	8-6 AWG	298-1163-ND	2,500	238.99	LJSL5-Y3-2.5
1.00x3.17	0.97	0.31~0.70	4-4/0 AWG	298-1164-ND	1,000	196.25	LJSL6-Y3-1
2.00x3.17	1.00	0.32~0.69	4-4/0 AWG	298-1169-ND	1,000	247.81	LJSL8-Y3-1
0.50x1.50	0.50	0.16~0.32	8-6 AWG	298-1174-ND	5,000	239.08	LJSL2-Y3-5
2.00x1.50	0.50	0.16~0.32	8-6 AWG	298-1175-ND	1,000	232.73	LJSL7-Y3-1

Laser Component Labels — Polyester (Box)

Label Size A x B (In.)	Color	Digi-Key Part No.	Roll Qty.	Pricing	Panduit Part No.
1.50 x 0.25	White	298-1165-ND◆	10,000	232.46	PLL-14-Y2-10
1.88 x 0.25	White	298-1166-ND	10,000	288.67	PLL-15-Y2-10
3.00 x 0.38	White	298-1167-ND◆	1,000	94.59	PLL-19-Y2-1
0.80 x 0.20	White	298-1168-ND◆	10,000	199.93	PLL-20-Y2-10
0.38 x 0.38	White	298-1170-ND◆	10,000	153.12	PLL-2-Y2-10
0.50 x 0.44	White	298-1172-ND◆	10,000	223.76	PLL-31-Y2-10
0.65 x 0.20	White	298-1173-ND◆	10,000	169.65	PLL-32-Y2-10
0.80 x 0.25	White	298-1176-ND◆	10,000	199.93	PLL-5-Y2-10
1.00 x 0.38	White	298-1177-ND◆	10,000	276.14	PLL-8-Y2-10
1.00 x 0.50	White	298-1178-ND◆	10,000	334.78	PLL-9-Y2-10

◆ ***RoHS Compliant***

NAKAGAWA MFG. (USA), INC.

Thermal Paper

Quality thermal paper available in 58, 60, 80 and 112mm paper widths.

SPECIFICATIONS:
• **Paper core:** 12mm • **Paper length:** 30M • **Outer diameter:** 55mm • **End mark:** Red, 50cm from end of roll • **Paper weight:** 65μm • **Print life:** Greater than 5 years when stored in a dark location, 25°C or less, 65% R.H. max.

Description	Digi-Key Part No.	Price Each				Nakagawa Part No.
		1	10	100	250	
58mm Thermal Printer Paper	PT1028-ND	2.25	1.80	1.58	1.51	EPT-58
60mm Thermal Printer Paper	PT1029-ND	2.38	1.90	1.67	1.59	EPL-60
80mm Thermal Printer Paper	PT1030-ND	2.88	2.30	2.02	1.93	EPT-80
112mm Thermal Printer Paper	PT1031-ND	3.10	2.48	2.17	2.08	EPL-112

3M Cable Ties

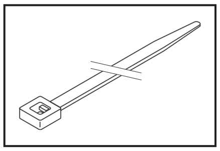

3M Cable Ties secure wire bundles and harness components quickly, without slipping.
The self-locking head, with heavy double teeth on the one piece lock mechanism.
Molded from 6/6 nylon, 3M cable ties are designed to meet a wide range of temperatures from -40°F ~ 185°F (-40°C ~ 85°C).
Weather resistant black nylon for indoor and outdoor use and natural nylon for indoor use only.

Cable Tie Type	Dimensions – Inch (mm)			Tensile Lb/Kg	Color	Digi-Key Part No.	Bag Qty.	Price Each	3M Part No.	Digi-Key Part No.	Bag Qty.	Price Each	3M Part No.
	Length	Width	Max. Bundle Diameter										
Miniature	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Natural	3M101C-ND◆	100	2.98	41931	3M101M-ND◆	1,000	15.66	41932
	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Black	3M101BKC-ND◆	100	3.28	41929	3M101BKM-ND◆	1,000	17.42	41930
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Natural	3M110C-ND◆	100	4.93	43400	3M110M-ND◆	1,000	28.69	43401
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Black	3M110BKC-ND◆	100	5.78	43500	3M110BKM-ND◆	1,000	32.80	43510
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Natural	3M111C-ND◆	100	5.93	43540	3M111M-ND◆	1,000	34.49	43541
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Black	3M111BKC-ND◆	100	7.06	43547	—	—	—	—
Intermediate	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Natural	3M102C-ND◆	100	5.40	41935	3M102M-ND◆	1,000	31.28	41936
	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Black	3M102BKC-ND◆	100	6.34	41933	3M102BKM-ND◆	1,000	35.78	41934
Standard	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Natural	3M103C-ND◆	100	6.52	41937	3M103M-ND◆	1,000	38.02	41938
	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Black	3M103BKC-ND◆	100	7.82	41939	3M103BKM-ND◆	1,000	44.68	41940
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Natural	3M104C-ND◆	100	12.48	41941	3M106D-ND◆	1,000	77.40	43200
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Black	3M104BKC-ND◆	100	13.74	41943	3M106BKD-ND◆	1,000	83.88	43201
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Natural	3M105C-ND◆	100	18.00	41978	3M105D-ND◆	500	75.00	41952
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Black	3M105BKC-ND◆	100	19.38	41977	3M105BKD-ND◆	500	86.10	41948
Heavy Duty	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Natural	3M107HDC-ND◆	100	31.62	43202	3M105HDD-ND◆	500	156.30	41950
	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Black	3M107HDBKC-ND◆	100	35.10	43203	3M105HDBKD-ND◆	500	173.40	41946
Extra Heavy Duty	37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Natural	3M109HDL-ND	50	61.71	43206	—	—	—	—
	48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Black	3M114HDBKL-ND◆	50	117.36	43575	—	—	—	—

◆ ***RoHS Compliant***

NEW! HARWIN Metric Spacers

Fig. 1

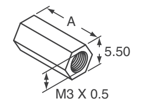

Fig. 2

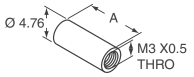

Fig. 3

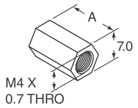

Fig. 4

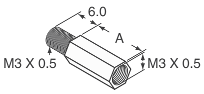

Fig. 5

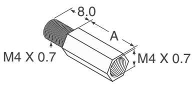

Fig. 6

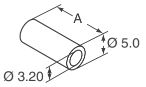

Fig. 7

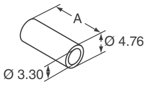

Fig.	Dim. A (mm)	Digi-Key Part No.	Price Each				Harwin Part No.
			1	10	50	100	
		Female, Brass, M3 Thread, Hexagonal					
1	4	952-1481-ND	.53	.42	.35	.32	R30-1010402
	7	952-1482-ND	.57	.45	.38	.34	R30-1010702
	8	952-1483-ND	.61	.48	.40	.36	R30-1010802
	9	952-1484-ND	.61	.48	.40	.36	R30-1010902
	10	952-1485-ND	.61	.48	.40	.36	R30-1011002
	11	952-1486-ND	.61	.48	.40	.36	R30-1011102
	12	952-1487-ND	.61	.48	.40	.36	R30-1011202
	13	952-1488-ND	.65	.51	.43	.39	R30-1011302
	14	952-1489-ND	.65	.51	.43	.39	R30-1011402
	15	952-1490-ND	.65	.51	.43	.39	R30-1011502
	16	952-1491-ND	.68	.54	.45	.41	R30-1011602
	18	952-1492-ND	.72	.57	.48	.43	R30-1011802
	20	952-1493-ND	.84	.65	.55	.50	R30-1012002
	25	952-1494-ND	.92	.72	.61	.55	R30-1012502
		Female, Brass, M3 Thread, Circular					
2	4	952-1514-ND	.45	.32	.25	.21	R30-5000402
	6	952-1515-ND	.50	.35	.27	.24	R30-5000602
	7	952-1516-ND	.60	.42	.33	.29	R30-5000702
	8	952-1517-ND	.60	.42	.33	.29	R30-5000802
	9	952-1518-ND	.60	.42	.33	.29	R30-5000902
	10	952-1519-ND	.60	.42	.33	.29	R30-5001002
	11	952-1520-ND	.65	.46	.36	.31	R30-5001102
	12	952-1521-ND	.65	.46	.36	.31	R30-5001202
	14	952-1522-ND	.53	.42	.35	.32	R30-5001402
	16	952-1523-ND	.57	.45	.38	.34	R30-5001602
	18	952-1524-ND	.57	.45	.38	.34	R30-5001802
	20	952-1525-ND	.65	.51	.43	.39	R30-5002002
		Female, Brass, M4 Thread, Hexagonal					
3	6	952-1535-ND	.65	.46	.36	.31	R40-1000602
	8	952-1536-ND	.53	.42	.35	.32	R40-1000802
	10	952-1537-ND	.53	.42	.35	.32	R40-1001002
	12	952-1538-ND	.53	.42	.35	.32	R40-1001202
	13	952-1539-ND	.53	.42	.35	.32	R40-1001302
	14	952-1540-ND	.57	.45	.38	.34	R40-1001402
	16	952-1541-ND	.61	.48	.40	.36	R40-1001602
	20	952-1542-ND	.72	.57	.48	.43	R40-1002002
	25	952-1543-ND	.76	.59	.50	.45	R40-1002502
		Male/Female, Brass, M3 Thread, Hexagonal					
4	4	952-1495-ND	.57	.45	.38	.34	R30-3000402
	5	952-1496-ND	.61	.48	.40	.36	R30-3000502
	6	952-1497-ND	.61	.48	.40	.36	R30-3000602
	7	952-1498-ND	.65	.51	.43	.39	R30-3000702
	8	952-1499-ND	.65	.51	.43	.39	R30-3000802
	9	952-1500-ND	.68	.54	.45	.41	R30-3000902
	10	952-1501-ND	.68	.54	.45	.41	R30-3001002
	11	952-1502-ND	.72	.57	.48	.43	R30-3001102
	12	952-1503-ND	.72	.57	.48	.43	R30-3001202
	13	952-1504-ND	.76	.59	.50	.45	R30-3001302
	14	952-1505-ND	.76	.59	.50	.45	R30-3001402
4	15	952-1506-ND	.80	.62	.53	.48	R30-3001502
	16	952-1507-ND	.80	.62	.53	.48	R30-3001602
	18	952-1508-ND	.84	.65	.55	.50	R30-3001802
	19	952-1509-ND	.91	.71	.60	.54	R30-3001902
	20	952-1510-ND	.95	.74	.63	.57	R30-3002002
	24	952-1511-ND	.81	.68	.57	.50	R30-3002402
	25	952-1512-ND	.88	.73	.61	.54	R30-3002502
	30	952-1513-ND	.98	.81	.68	.60	R30-3003002
		Male/Female, Brass, M4 Thread, Hexagonal					
5	6	952-1544-ND	.68	.54	.45	.41	R40-3000602
	7	952-1545-ND	.72	.57	.48	.43	R40-3000702
	8	952-1546-ND	.76	.59	.50	.45	R40-3000802
	9	952-1547-ND	.80	.62	.53	.48	R40-3000902
	10	952-1548-ND	.84	.65	.55	.50	R40-3001002
	11	952-1549-ND	.87	.68	.58	.52	R40-3001102
	12	952-1550-ND	.91	.71	.60	.54	R40-3001202
	13	952-1551-ND	.91	.71	.60	.54	R40-3001302
	14	952-1552-ND	.81	.68	.57	.50	R40-3001402
	15	952-1553-ND	.85	.71	.59	.52	R40-3001502
	16	952-1554-ND	.88	.73	.61	.54	R40-3001602
	18	952-1555-ND	.91	.76	.63	.56	R40-3001802
	20	952-1556-ND	1.01	.84	.70	.62	R40-3002002
	25	952-1557-ND	1.20	1.00	.84	.74	R40-3002502
	30	952-1558-ND	1.30	1.08	.90	.80	R40-3003002
		M3 Clearance, Plastic, Circular					
6	3	952-1526-ND	.43	.27	.18	.16	R30-6700394
	4	952-1527-ND	.50	.35	.27	.24	R30-6700494
	5	952-1528-ND	.45	.28	.19	.16	R30-6700594
	6	952-1529-ND	.55	.39	.30	.26	R30-6700694
	8	952-1530-ND	.47	.30	.20	.17	R30-6700894
	10	952-1531-ND	.38	.27	.21	.18	R30-6701094
	11	952-1532-ND	.65	.46	.36	.31	R30-6701194
	12	952-1533-ND	.49	.39	.33	.30	R30-6701294
	13	952-1534-ND	.49	.39	.33	.30	R30-6701394
		M3 Clearance, Brass, Circular					
7	2	952-1559-ND	.80	.62	.53	.48	R30-6010202
	3	952-1560-ND	.80	.62	.53	.48	R30-6010302
	4	952-1561-ND	.84	.65	.55	.50	R30-6010402
	5	952-1562-ND	.84	.65	.55	.50	R30-6010502
	6	952-1563-ND	.84	.65	.55	.50	R30-6010602
	7	952-1564-ND	.87	.68	.58	.52	R30-6010702
	8	952-1565-ND	.91	.71	.60	.54	R30-6010802
	9	952-1566-ND	.81	.68	.57	.50	R30-6010902
	10	952-1567-ND	.81	.68	.57	.50	R30-6011002
	11	952-1568-ND	.85	.71	.59	.52	R30-6011102
	12	952-1569-ND	.85	.71	.59	.52	R30-6011202
	13	952-1570-ND	.88	.73	.61	.54	R30-6011302
	14	952-1571-ND	.91	.76	.63	.56	R30-6011402
	15	952-1572-ND	.94	.79	.66	.58	R30-6011502
	22	952-1573-ND	1.40	1.17	.97	.86	R30-6012202
	30	952-1574-ND	.88	.73	.61	.54	R30-6013002

Fig. 1

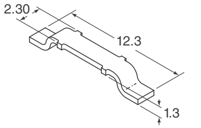

Fig. 2

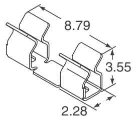

Fig. 3

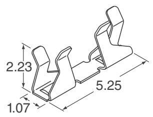

Fig. 4

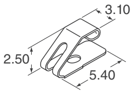

Fig. 5

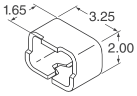

Fig. 6

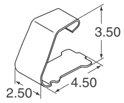

Fig. 7

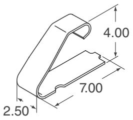

Fig. 8

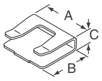

Part Number	Dimensions - mm		
	A	B	C
S8101-46R	5.0	4.0	1.50
S8111-46R	5.0	5.0	2.05
S8121-46R	7.0	5.5	2.55
S8131-46R	10.0	8.0	3.55

Fig. 9

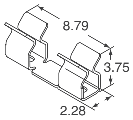

Fig. 10

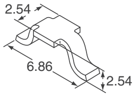

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Harwin Part No.
			1	10	50		Qty.	Pricing	
1	SMT Jumper, 12.3mm	952-1474-1-ND	.26	.21	.18	952-1474-2-ND	5,000	85.00/M	S1621-46R
2	SMT RFI Shield Clip, Mini	952-1475-1-ND	.33	.28	.23	952-1475-2-ND	1,900	138.00/M	S1711-46R
3	SMT RFI Shield Clip, Mini	952-1476-1-ND	.27	.21	.18	952-1476-2-ND	5,000	86.00/M	S1721-46R
4	SMT Ground Spring Contact, 2.5mm	952-1477-1-ND	.30	.23	.20	952-1477-2-ND	2,500	96.00/M	S1741-46R
5	SMT Test Point	952-1478-1-ND	.28	.22	.19	952-1478-2-ND	2,500	92.00/M	S1751-46R
6	SMT Ground Spring Contact, 3.5mm	952-1479-1-ND	.50	.42	.35	952-1479-2-ND	2,000	189.00/M	S1761-42R
7	SMT Ground Spring Contact, 4mm	952-1480-1-ND	.52	.44	.37	952-1480-2-ND	2,000	211.00/M	S1791-42R
8	SMT Cable Clip, 1mm	952-1576-1-ND	.28	.22	.19	952-1576-2-ND	3,000	92.00/M	S8101-46R
8	SMT Cable Clip, 1 ~ 1.5mm	952-1577-1-ND	.27	.21	.18	952-1577-2-ND	1,500	102.00/M	S8111-46R
8	SMT Cable Clip, 1.5 ~ 2.0mm	952-1578-1-ND	.25	.20	.17	952-1578-2-ND	1,300	110.00/M	S8121-46R
8	SMT Cable Clip, 2.0 ~ 3.0mm	952-1579-1-ND	.32	.23	.18	952-1579-2-ND	800	88.00	S8131-46R
9	SMT RFI Shield Clip, Maxi	952-1580-1-ND	.35	.28	.24	952-1580-2-ND	1,900	126.00/M	S1411-46R
10	SMT Jumper, 6.86mm	952-1581-1-ND	.32	.25	.21	952-1581-2-ND	2,500	102.00/M	S1731-46R

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Terminals

Fig. 1

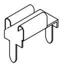

Fig. 2

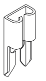

Fig. 3

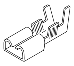

Fig. 4

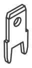

Fig. 5

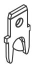

Fig. 6

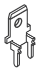

Fig. 7

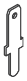

Fig. 8

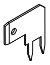

Fig. 9

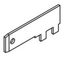

Fig. 10

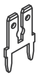

Fig. 11

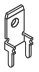

Fig. 12

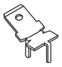

Fig. 13

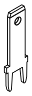

Fig. 14

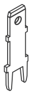

Fig. 15

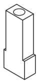

Fig. 16 ***NEW!***

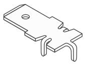

Fig. 17 ***NEW!***

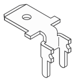

Fig. 18 ***NEW!***

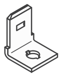

Fig. 19 ***NEW!***

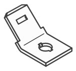

Fig. 20 ***NEW!***

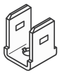

Fig. 21 ***NEW!***

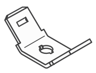

Fig. 22 ***NEW!***

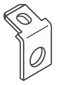

Fig. 23

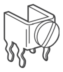

Fig. 24

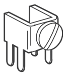

Fig. 25

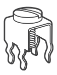

Fig. 26 ***NEW!***

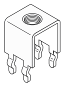

Fig. 27 ***NEW!***

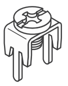

Fig. 28

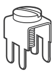

Fig. 29

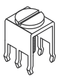

Fig. 30 ***NEW!***

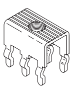

Fig. 31 ***NEW!***

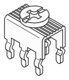

Fig. 32

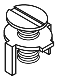

Fig. 33

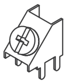

Fig. 34

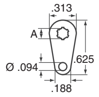

Fig. 35

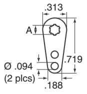

Fig. 36

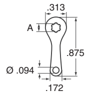

Fig. 37

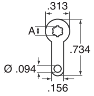

Fig. 38

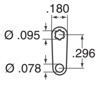

Fig. 39

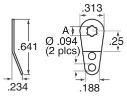

Fig. 40

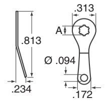

Fig. 41

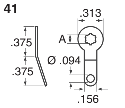

Fig. 42

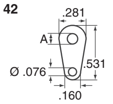

Fig. 43

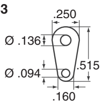

Fig. 44

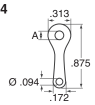

Fig. 45

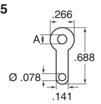

Fig. 46

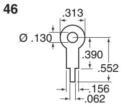

Fig. 47

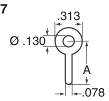

Fig.	Description	Dim. A Inch	Digi-Key Part No.	Pricing 10	Pricing 100
	PC Quick-Fit Tab Terminals				
1	.110” Female, Horizontal	—	3545K-ND	4.75	45.80
1	.110” Female, Horizontal	—	3549K-ND	4.75	45.80
1	.187” Female, Horizontal	—	3571K-ND ***NEW!***	2.49	17.20
1	.205” Female, Horizontal	—	3546K-ND	4.95	47.35
1	.205” Female, Horizontal	—	3550K-ND	4.95	47.35
1	.250” Female, Horizontal	—	3547K-ND	5.19	49.95
2	.110” Female, Vertical	—	3534K-ND	2.25	17.90
2	.110” Female, Vertical	—	3544K-ND	2.25	17.90
2	.205” Female, Vertical	—	3525K-ND	2.25	17.90
2	.250” Female, Vertical	—	3528K-ND	2.25	17.90
2	.187” Female, Vertical	—	3548K-ND	2.25	17.90
2	.187” Female, Vertical	—	3551K-ND	2.25	17.90
2	.205” Female, Vertical	—	3522K-ND	1.52	10.80
2	.205” Female, Vertical	—	3578K-ND ***NEW!***	2.25	17.90
3	.110” Female, 18-22 Gage	—	1252K-ND	1.73	16.55
3	.187” Female, 16-22 Gage	—	1264K-ND	4.15	39.70
3	.205” Female, 16-20 Gage	—	4469K-ND	6.06	54.90
3	.250” Female, 16-20 Gage	—	4470K-ND	3.15	30.15
4	.187” Male, .032 Brass, Tin Plate, .050 Diameter	—	1216K-ND ***NEW!***	1.93	13.40
4	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286K-ND	1.04	7.45
4	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213K-ND	1.18	11.50
5	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286-STK-ND	.98	9.45
5	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213-STK-ND	1.18	8.45
6	.187” Male, .020 Brass, Tin Plate, .043 Diameter	—	4900K-ND	1.58	15.30
4	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285K-ND	.93	9.10
4	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212K-ND	1.07	7.65
5	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285-STK-ND	.97	6.85
5	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212-STK-ND	1.07	7.65
7	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	1267K-ND	1.19	11.50
7	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	1211K-ND	1.41	12.95
8	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	4903K-ND	2.48	23.50
8	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	4906K-ND	2.54	24.20
8	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	4904K-ND	2.38	22.75
8	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	4907K-ND	2.43	23.05
8	.250” Male, .032 Brass, Tin Plate, .056 Diameter	—	4966K-ND	1.78	13.30
8	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1266K-ND	2.62	18.45
9	.250” Male, .032 Brass, Tin Plate, .106 Diameter	—	1265K-ND	2.56	18.00
4	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287K-ND	1.14	11.15
5	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287-STK-ND	1.14	11.15
10	.110”/.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1282K-ND	1.14	11.15
6	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4901K-ND	2.34	16.45
11	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4902K-ND	1.58	15.30
12	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	4912K-ND ***NEW!***	3.36	32.30
12	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4908K-ND	3.36	32.30
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289K-ND	1.77	12.95
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289-STK-ND	1.72	12.15
14	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1281K-ND	2.86	20.25
15	.250” Quick-Fit Vinyl Boot, Clear	—	4471K-ND	1.26	12.15
15	.250” Quick-Fit Vinyl Boot, Red	—	4472K-ND	1.26	12.15
15	.250” Quick-Fit Vinyl Boot, Blue	—	4473K-ND	1.26	12.15
—	Terminal Hand Insertion Tool	—	1288K-ND	41.01/1	
	NEW! Rivet Mount Quick-Fit Terminals NEW!				
16	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	4910K-ND	3.36	32.30
17	.250” Male, .032 Brass, Tin Plate, .060 Diameter	—	4914K-ND	2.25	15.75
18	.250” Male, .032 Brass 90° Tab, .130 Diameter	—	1256K-ND	2.07	14.65
19	.250” Male, Dual 90° Tabs, .130 Diameter	—	1257K-ND	1.83	12.85
20	.250” Male, 45° Tab, Brass, .130 Diameter	—	1280K-ND	2.07	14.65
21	.250” Male, Dual 45° Tabs, Brass .130 Diameter	—	1258K-ND	1.80	12.70
22	.187” Male, 45° Tab, .020 Brass, .078 Diameter	—	4095K-ND	1.57	15.10
	PC Mount Screw Terminals				
23	Snap-In PC Horizontal, 6-32 Thread	—	7690K-ND‡	5.30	39.25
23	Snap-In PC Horizontal, 6-32 Thread	—	7692K-ND†‡	5.30	43.00
23	Snap-In PC Horizontal, M3 Thread	—	7695K-ND† ***NEW!***	5.30	43.00
23	Snap-In PC Horizontal, M3 Thread	—	7790K-ND ***NEW!***	4.32	37.90
23	Snap-In PC Horizontal, M4 Thread	—	7792K-ND ***NEW!***	4.32	37.90
23	Snap-In PC Horizontal, M4 Thread	—	7794K-ND† ***NEW!***	5.66	45.25
24	PC Horizontal, 6-32 Thread	—	8190K-ND‡	4.14	36.25
24	PC Horizontal, 6-32 Thread	—	7700K-ND†‡	4.99	40.75
25	Snap-In PC Vertical, 6-32 Thread	—	7691K-ND‡	4.17	37.90
25	Snap-In PC Vertical, 6-32 Thread	—	7693K-ND†‡	5.05	41.20
25	Snap-In PC Vertical, 6-32 Thread	—	7786K-ND ***NEW!***	4.79	44.55
25	Snap-In PC Vertical, 10-32 Thread	—	8174K-ND ***NEW!***	11.62	89.20
25	Snap-In PC Vertical, M3 Thread	—	7788K-ND ***NEW!***	3.96	36.80
25	Snap-In PC Vertical, M4 Thread	—	7795K-ND‡ ***NEW!***	3.80	35.35
25	Snap-In PC Vertical, M4 Thread	—	7797K-ND† ***NEW!***	5.55	55.25
26	Snap-In PC Vertical, 10-32 Thread	—	7791K-ND ***NEW!***	8.78	62.06
27	PC Vertical, Low Profile, 6-32 Thread	—	7778K-ND† ***NEW!***	4.64	37.70
27	PC Vertical, Low Profile ,6-32 Thread	—	7784K-ND‡ ***NEW!***	3.75	35.00
28	PC Vertical, 6-32 Thread	—	8191K-ND‡	3.81	35.20
28	PC Vertical, 6-32 Thread	—	7701K-ND†‡	4.75	38.50
29	Snap-In PC Vertical, Heavy Duty, 10-32 Thread	—	8196K-ND‡	8.18	66.05
29	Snap-In PC Vertical, Heavy Duty, M5 Thread	—	7808K-ND ***NEW!***	10.21	80.80
29	Snap-In PC Vertical, Heavy Duty, M5 Thread w/o Screw	—	7807K-ND ***NEW!***	5.95	47.05
30	Snap-In PC Vertical, Heavy Duty, M4 Thread	—	7798K-ND ***NEW!***	4.79	44.55
31	Snap-In PC Vertical, Heavy Duty, M4 Thread	—	7800K-ND ***NEW!***	6.07	49.50
31	Snap-In PC Vertical, 6-32 Thread	—	8199K-ND†‡ ***NEW!***	6.07	49.50
32	Terminal Insert 10-32 Thread	—	1202K-ND†	11.26	108.10
32	Screw Terminal Insert 10-32 Thread	—	1299K-ND‡	11.26	108.10
33	PC 45°, Screw Supplied Unassembled, 6-32 Thread	—	8189K-ND‡	9.54	84.95
33	PC 45°, 6-32 Thread	—	7702K-ND†‡	10.86	89.10
	Lockwasher Terminal Lugs				
34	.018 Brass, Tin Plate	.120	908K-ND	1.39	13.30
34	.018 Brass, Tin Plate	.140	914K-ND	1.39	13.30
34	.018 Brass, Tin Plate	.171	915K-ND	1.39	13.30

† Screw Installed and Captivated ‡ Available with colored Screw Heads

(Continued)

Fig.	Description	Dim. A Inch	Digi-Key Part No.	Pricing 10	Pricing 100
35	.018 Brass, Tin Plate	.120	910K-ND	1.44	13.75
35	.018 Brass, Tin Plate	.140	918K-ND	1.44	13.75
35	.018 Brass, Tin Plate	.171	906K-ND	1.57	13.75
36	.018 Brass, Tin Plate	.120	903K-ND	1.49	14.30
36	.018 Brass, Tin Plate	.140	904K-ND	1.49	14.30
36	.018 Brass, Tin Plate	.171	905K-ND	1.49	14.30
37	.018 Brass, Tin Plate	.120	909K-ND	1.51	14.30
37	.018 Brass, Tin Plate	.140	916K-ND	1.51	14.30
37	.018 Brass, Tin Plate	.171	917K-ND	1.51	14.30
38	.013 Brass, Tin Plate	—	907K-ND	2.43	23.30
39	.018 Brass, Tin Plate	.120	7311K-ND	1.44	13.75
39	.018 Brass, Tin Plate	.140	7312K-ND	1.44	13.75
39	.018 Brass, Tin Plate	.171	7313K-ND	1.44	13.75
40	.018 Brass, Tin Plate	.120	7317K-ND	1.49	14.30
40	.018 Brass, Tin Plate	.140	7318K-ND	1.49	14.30
40	.018 Brass, Tin Plate	.171	7319K-ND	1.49	14.30
41	.018 Brass, Tin Plate	.120	7314K-ND	1.51	14.30
41	.018 Brass, Tin Plate	.140	7315K-ND	1.51	14.30
41	.018 Brass, Tin Plate	.171	7316K-ND	1.51	14.30
Solder Terminal Lugs					
42	.015 Brass, Tin Plate	.120	7328K-ND	1.31	12.50
42	.015 Brass, Tin Plate	.140	7329K-ND	1.31	12.50
42	.015 Brass, Tin Plate	.171	7330K-ND	1.31	12.50
43	.016 Brass, Tin Plate	—	4004K-ND	1.16	11.15
44	.020 Brass, Tin Plate	.120	7331K-ND	1.41	13.40
44	.020 Brass, Tin Plate	.140	7332K-ND	1.41	13.40
44	.020 Brass, Tin Plate	.171	7333K-ND	1.37	12.85
45	.020 Brass, Tin Plate	.120	7325K-ND	1.37	12.85
45	.020 Brass, Tin Plate	.140	7326K-ND	1.41	13.40
45	.020 Brass, Tin Plate	.171	7327K-ND	1.37	12.85
Terminal Lugs					
46	.015 Brass, Tin Plate	—	680K-ND	1.53	14.40
47	.020 Brass, Tin Plate	.500	4000K-ND	1.20	8.45
47	.020 Brass, Tin Plate	.562	4001K-ND	1.21	8.80
47	.020 Brass, Tin Plate	.750	4002K-ND	1.33	12.95
47	.020 Brass, Tin Plate	1.000	4003K-ND	1.45	14.05
Double Turret Series					
—	TL-1 Brass, Tin Plate, .084” Length	—	1593-2K-ND	2.13	20.70
—	TL-1 Brass, Tin Plate, .082” Length	—	1573-2K-ND	2.32	21.71
—	TL-2 Brass, Tin Plate, .109” Length	—	1502-2K-ND	2.81	26.55
Tubular (Hollow) Turret Series					
—	TL-2 Brass, Tin Plate, .084” Length	—	1562-2K-ND	4.21	38.35
PC Test Point Terminals					
—	.020 Brass, Tin Plate, Slotted, .032” Diameter	—	1031K-ND	1.77	12.25
—	.025 Brass, Tin Plate, Slotted, .118” Diameter	—	1040K-ND	1.55	10.90
—	.025 Brass, Tin Plate, Loop, .040” Diameter	—	1249K-ND	1.80	12.50
—	.025 Brass, Tin Plate, Loop, .050” Diameter	—	1045K-ND	4.74	33.48
—	.025 Brass, Tin Plate, Loop, .098” Diameter	—	4952K-ND	1.61	15.55
90° Quick-Fit Rivet Terminal					
—	.250” Tab, .032 Brass, 3 Pairs, .130” Diameter	—	1006K-ND	6.41	61.55

† Screw Installed and Captivated ‡ Available with colored Screw Heads

Round Aluminum Spacers (Non Threaded)

Materials: Brass: Nickel Plate (QQ-N-290) • **Aluminum:** Iridite Finish (MIL-C-5541)

Clearance Hole: • .120” for #4 Screw • .140 for #6 Screw • .171 for #8 Screw

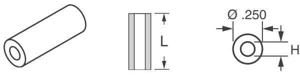

Screw (Hole)	Dim. L (Inch)	Brass Spacers Part No.	Pricing 10	Pricing 100	Aluminum Spacers Part No.	Pricing 10	Pricing 100
#4 (.120)	.125	1909K-ND◆	3.79	37.25	2036K-ND◆	2.21	18.35
	.250	1454AK-ND◆	4.31	41.05	3457K-ND◆	2.59	20.80
	.375	1454BK-ND◆	5.06	48.05	3458K-ND◆	3.08	24.65
	.500	1454CK-ND◆	5.59	53.10	3459K-ND◆	3.36	26.80
	.625	1919K-ND◆	8.57	81.00	2314K-ND◆	3.71	30.95
	.750	1454DK-ND◆	8.42	79.20	3460K-ND◆	4.16	33.20
	.875	1920K-ND	7.76	74.70	3402K-ND	4.67	37.70
	1.000	1454EK-ND◆	9.90	95.75	3461K-ND◆	4.45	41.40
	1.500	1924K-ND	17.29	167.95	3462K-ND	11.47	101.50
	2.000	1925K-ND	22.91	222.65	3463K-ND	12.18	118.70
#6 (.140)	.125	1934K-ND◆	3.79	37.25	3403K-ND◆	2.21	18.35
	.250	1457AK-ND◆	4.31	41.05	3464K-ND◆	2.59	20.80
	.375	1457BK-ND◆	4.68	44.45	3465K-ND◆	3.08	24.65
	.500	1457CK-ND◆	5.49	53.20	3466K-ND◆	3.36	26.80
	.625	1935K-ND◆	6.33	59.75	3429K-ND◆	3.71	30.95
	.750	1457DK-ND◆	6.39	60.30	3467K-ND◆	4.16	33.20
	.875	1936K-ND◆	10.21	92.60	3438K-ND◆	4.67	37.70
	1.000	1457EK-ND◆	10.17	96.55	3468K-ND◆	4.45	41.40
	1.500	1937K-ND	17.29	167.95	3469K-ND◆	10.78	95.50
	2.000	1938K-ND	22.78	221.05	3470K-ND	12.18	118.70
#8 (.171)	.125	1942K-ND◆	3.79	37.25	4258K-ND◆	2.21	18.35
	.250	1480K-ND◆	4.31	41.05	3471K-ND◆	2.59	20.80
	.375	1481K-ND◆	4.59	44.35	3472K-ND◆	3.08	24.65
	.500	1482K-ND◆	5.49	53.20	3473K-ND◆	3.36	26.80
	.625	2032K-ND◆	6.13	58.95	4259K-ND◆	3.71	30.95
	.750	1483K-ND◆	6.22	59.65	3474K-ND◆	4.16	33.20
	.875	2033K-ND	10.21	92.60	4260K-ND◆	4.67	37.70
	1.000	1484K-ND	10.51	95.75	3475K-ND◆	4.45	41.40
	1.500	2034K-ND	17.29	167.95	3476K-ND	10.42	92.25
	2.000	2035K-ND	22.78	221.05	3477K-ND◆	12.18	118.70

NEW! 400 Piece Clear Hole Spacer Kits

Assortment of 400 total spacers: Brass, Aluminum, Nylon, Rolled Aluminum, with lengths of .250, .500, .750 and 1.000. 25 pieces of each size. Complete with cabinet.

SCR-4K-ND◆	(SCR-4)	**$170.97**
SCR-6K-ND◆	(SCR-6)	**$170.97**
SCR-8K-ND◆	(SCR-8)	**$170.97**

◆ ***RoHS Compliant***

Nylon Spacers

Hex Threaded Standoffs

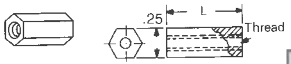

Material: Nylon 6/6
Economical for terminal or printed circuit board supports.

Dim. L (Inch)	4-40 Thread Part No.	6-32-Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	1902AK-ND	1903AK-ND	1904AK-ND	5.62	50.95
.375	1902BK-ND	1903BK-ND	1904BK-ND	5.75	51.85
.500	1902CK-ND	1903CK-ND	1904CK-ND	5.99	54.70
.625	1902FK-ND	1903FK-ND	1904FK-ND	6.34	57.95
.750	1902DK-ND	1903DK-ND	1904DK-ND	7.69	69.75
.875	1902GK-ND	1903GK-ND	1904GK-ND	7.14	64.80
1.000	1902EK-ND	1903EK-ND	1904EK-ND	8.85	70.00

Hex Threaded Standoffs - Flame Retardant

Material: Monsanto 340 FR UL 94V-0 rating

Dim. L (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	8440AK-ND◆	8441AK-ND◆	8442AK-ND	7.55	68.40
.375	8440BK-ND◆	8441BK-ND◆	8442BK-ND	7.71	70.00
.500	8440CK-ND◆	8441CK-ND◆	8442CK-ND◆	8.03	73.15
.625	8440DK-ND◆	8441DK-ND◆	8442DK-ND	9.56	86.75
.750	8440EK-ND◆	8441EK-ND◆	8442EK-ND◆	10.16	99.00
.875	8440FK-ND◆	8441FK-ND◆	8442FK-ND	9.33	89.80
1.000	8440GK-ND◆	8441GK-ND◆	8442GK-ND◆	10.39	94.40

◆ ***RoHS Compliant***

Round Thru-Hole Spacers

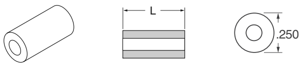

Material: Nylon 6/6

Dim. L (Inch)	#4 Screw .120 Hole Part No.	#6 Screw .140 Hole Part No.	#8 Screw .171 Hole Part No.	Pricing 10	Pricing 100
.125	875K-ND	883K-ND	891K-ND	1.47	12.70
.250	876K-ND	884K-ND	892K-ND	1.60	13.75
.375	877K-ND	885K-ND	893K-ND	1.90	17.45
.500	878K-ND	886K-ND	894K-ND	2.02	18.55
.625	879K-ND	887K-ND	895K-ND	2.17	20.15
.750	880K-ND	888K-ND	896K-ND	2.21	21.05
.875	881K-ND	889K-ND	897K-ND	2.51	24.10
1.000	882K-ND	890K-ND	898K-ND	2.66	25.30

Self-Aligning and Universal LED Spacer Mounts

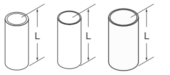

Self-Aligning Bi-Lead Spacer Mounts

These unique, LED mounting spacers, for T-1 and T-1 3/4 LEDs, reduce labor costs by simplifying pre-assembly to the printed circuit board. The spacer features and internally tapered barrier which guides the leads and eliminates the possibility of crimping or shorting. The internal configuration also assures positive self-alignment on .100 (2.6) centers. The bosses serve the dual purpose of heat dissipation and easy post soldering cleanup.

Features: • Internal design eliminates crimping or shorting of leads • Positive self-alignment of leads on .100 (.25) centers • Cost and labor saving • No special tools required **Material:** Natural Nylon, UL Rated 94V-2

Universal Spacer Mounts

Unique design separates leads and retains Tri-Lead and Bi-Lead components. Designed for PC board mounting of Tri-Lead and Bi-Lead T-1 and T-1 3/4 LEDs. Provides height control, lead retention and stability. Also suitable for mounting lamps, resistors, transistors, diodes and capacitors. **Material:** Black PVC, UL Rated 94V-0

Length - Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Keystone Part No.
Self-Aligning Bi-Lead for T-1					
0.120 (3.05)	7351K-ND ***NEW!***	.17	1.59	15.55	7351
0.140 (3.56)	7352K-ND	.17	1.59	15.55	7352
0.160 (4.06)	7353K-ND ***NEW!***	.17	1.59	15.55	7353
0.180 (4.57)	7354K-ND ***NEW!***	.17	1.59	15.55	7354
0.200 (5.1)	7355K-ND ***NEW!***	.17	1.59	15.55	7355
0.220 (5.59)	7356K-ND ***NEW!***	.17	1.59	15.55	7356
0.240 (6.1)	7357K-ND ***NEW!***	.17	1.59	15.55	7357
0.250 (6.35)	7358K-ND ***NEW!***	.17	1.59	15.55	7358
0.280 (7.1)	7360K-ND ***NEW!***	.17	1.59	15.55	7360
0.300 (7.62)	7361K-ND ***NEW!***	.18	1.66	16.30	7361
0.320 (8.13)	7362K-ND ***NEW!***	.18	1.66	16.30	7362
0.340 (8.64)	7363K-ND ***NEW!***	.18	1.66	16.30	7363
0.360 (9.14)	7365K-ND ***NEW!***	.18	1.66	16.30	7365
0.380 (9.65)	7366K-ND ***NEW!***	.18	1.66	16.30	7366
0.400 (10.3)	7367K-ND ***NEW!***	.18	1.66	16.30	7367
0.450 (11.4)	7370K-ND ***NEW!***	.18	1.66	16.30	7370
0.500 (12.7)	7373K-ND ***NEW!***	.18	1.73	17.10	7373
0.550 (14.0)	7374K-ND ***NEW!***	.18	1.73	17.10	7374
0.600 (15.1)	7375K-ND ***NEW!***	.18	1.73	17.10	7375
Self-Aligning Bi-Lead for T-1 3/4					
0.120 (3.05)	8311K-ND ***NEW!***	.18	1.65	15.85	8311
0.140 (3.56)	8312K-ND ***NEW!***	.18	1.65	15.85	8312
0.160 (4.06)	8313K-ND ***NEW!***	.18	1.65	15.85	8313
0.180 (4.57)	8314K-ND ***NEW!***	.18	1.65	15.85	8314
0.200 (5.1)	8315K-ND ***NEW!***	.18	1.65	15.85	8315
0.220 (5.59)	8316K-ND ***NEW!***	.18	1.65	15.85	8316
0.240 (6.1)	8317K-ND ***NEW!***	.18	1.65	15.85	8317
0.250 (6.4)	8318K-ND	.18	1.65	15.85	8318
0.280 (7.1)	8320K-ND ***NEW!***	.18	1.65	15.85	8320
0.300 (7.62)	8321K-ND ***NEW!***	.18	1.72	17.10	8321
0.320 (8.13)	8322K-ND ***NEW!***	.18	1.72	17.10	8322
0.340 (8.6)	8323K-ND	.18	1.72	17.10	8323
0.360 (9.14)	8325K-ND ***NEW!***	.18	1.72	17.10	8325
0.380 (9.65)	8326K-ND ***NEW!***	.18	1.72	17.10	8326
0.400 (10.3)	8327K-ND ***NEW!***	.18	1.72	17.10	8327
0.450 (11.4)	8330K-ND ***NEW!***	.18	1.72	17.10	8330
0.500 (12.7)	8333K-ND ***NEW!***	.19	1.79	17.45	8333
0.550 (14.0)	8334K-ND ***NEW!***	.19	1.79	17.45	8334
0.600 (15.1)	8335K-ND ***NEW!***	.19	1.79	17.45	8335
Universal Bi-Lead/Tri-Lead for T-1 and T-1 3/4					
0.120 (3.05)	8900K-ND	.17	1.59	15.55	8900
0.140 (3.56)	8901K-ND ***NEW!***	.17	1.59	15.55	8901
0.160 (4.06)	8902K-ND ***NEW!***	.17	1.59	15.55	8902
0.180 (4.57)	8903K-ND ***NEW!***	.17	1.59	15.55	8903
0.200 (5.1)	8904K-ND ***NEW!***	.17	1.59	15.55	8904
0.240 (6.1)	8906K-ND ***NEW!***	.17	1.59	15.55	8906
0.250 (6.35)	8907K-ND ***NEW!***	.17	1.59	15.55	8907
0.320 (8.13)	8911K-ND ***NEW!***	.18	1.66	16.30	8911
0.380 (9.65)	8915K-ND ***NEW!***	.18	1.66	16.30	8915
0.500 (12.7)	8922K-ND ***NEW!***	.24	2.22	21.05	8922
0.650 (16.51)	8925K-ND ***NEW!***	.24	2.22	21.05	8925

Rubber Grommets

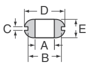

I.D. A (In.)	For Hole B (Inch)	For Panel C (Inch)	Dim. (Inch) D	E	Digi-Key Part No.	Pricing 10	100	500
.125	.187	.062	.312	.187	730K-ND◆	1.31	12.70	43.25
.125	.250	.062	.343	.187	733K-ND◆	1.19	11.50	37.75
.125	.437	.062	.625	.187	734K-ND◆	13.01	120.95	390.25
.125	.375	.093	.500	.312	735K-ND◆	4.46	43.00	141.25
.187	.312	.062	.437	.218	736K-ND◆	1.44	14.05	45.50
.187	.312	.062	.437	.218	731K-ND◆	1.44	14.05	45.50
.187	.281	.093	.437	.218	737K-ND◆	3.43	32.85	109.75
.250	.437	.062	.625	.187	738K-ND◆	3.56	33.85	114.25
.250	.375	.062	.562	.250	739K-ND◆	1.81	17.65	57.25
.250	.375	.093	.500	.250	740K-ND◆	3.07	29.95	98.50
.312	.562	.062	.812	.312	741K-ND◆	6.40	61.55	204.00
.312	.437	.062	.625	.281	742K-ND◆	2.49	24.10	80.00
.312	.437	.093	.625	.312	743K-ND◆	3.81	37.25	122.50
.375	.625	.062	.875	.312	744K-ND◆	7.31	66.40	217.50
.375	.500	.062	.625	.250	745K-ND◆	1.96	19.15	63.50
.437	.562	.062	.750	.250	732K-ND◆	2.57	23.50	80.00
.437	.687	.062	.937	.312	746K-ND◆	8.07	73.60	242.75
.500	.812	.062	1.062	.312	747K-ND◆	7.93	76.30	252.00
.500	1.250	.062	1.500	.25	748K-ND	9.66	92.70	306.25
.500	.750	.093	.968	.281	749K-ND◆	5.75	49.95	165.75
.562	.812	.062	1.062	.312	750K-ND	9.92	90.00	298.50
.625	.875	.062	1.125	.312	752K-ND◆	5.33	51.30	169.25
.625	1.250	.062	1.500	.250	753K-ND	14.90	135.25	445.00
.750	1.062	.062	1.375	.375	755K-ND◆	15.20	138.40	456.00
.750	1.437	.062	1.812	.375	756K-ND	34.66	325.45	1075.50
.875	1.250	.062	1.625	.437	757K-ND◆	21.87	211.05	695.75

◆ ***RoHS Compliant***

Threaded Mounting Brackets

Fig. 1

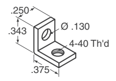

Fig. 2

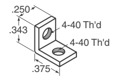

Fig. 3

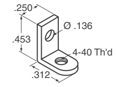

Fig. 4

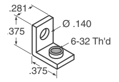

Fig. 5

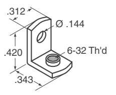

Fig. 6

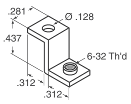

Fig. 7

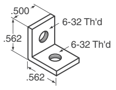

Fig. 8

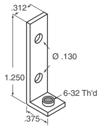

Fig. 9

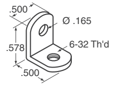

Fig. 10

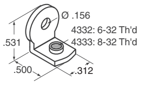

Fig. 11

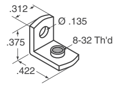

Fig. 12

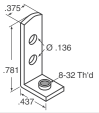

Fig.	Description	Digi-Key Part No.	Pricing 10	100
1	.062 Steel, Zinc Plate	612K-ND	2.28	20.80
2	.062 Steel, Zinc Plate	621K-ND	2.94	26.80
3	.047 Brass, Tin Plate	616K-ND	5.50	49.95
4	.032 Brass, Nickel Plate	634K-ND	4.78	38.95
5	.032 Brass,Tin Plate	614K-ND	2.61	25.30
6	.032 Brass, Tin Plate	630K-ND	15.44	145.60
7	.062 Steel, Nickel Plate	4334K-ND	3.22	25.55
8	.062 Steel, Nickel Plate	708K-ND	9.54	87.10
9	.062 Steel, Tin Plate	617K-ND	5.42	49.30
10	.062 Brass, Nickel Plate	4332K-ND	8.36	80.20
10	.062 Brass, Nickel Plate	4333K-ND	8.36	80.20
11	.037 Brass, Tin Plate	611K-ND	3.10	20.15
12	.037 Steel, Tin Plate	631K-ND	4.99	47.80

NEW! Computer Brackets - EISA/ISA or PCI

Features: • Premium quality • Designed to fit all PC computers height brackets available • Blanks available for "fillers" • Fast delivery and cost effective tooling for special designs **Material:** 0.32 (.81) thick Steel, Nickel Plate

Description	Digi-Key Part No.	Pricing 1	10	100
Without Rib	9200K-ND	2.55	24.00	227.00
Reinforced with Rib for Extra Strength	9201K-ND	2.55	24.00	227.00

Prepunched Insulating Boards

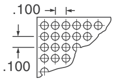

Dimension – Inch Width	Length	Digi-Key Part No.	Pricing 1	10	Keystone Part No.
Perfboard — Holes .042" (1.07mm) Dia., Glass Epoxy					
2.00	4.50	3405K-ND	5.43	50.68	3405
2.00	6.00	3406K-ND	7.08	66.08	3406
2.75	17.00	3407K-ND	21.21	197.96	3407
3.00	4.50	3408K-ND	7.38	68.88	3408
4.50	6.00	3409K-ND	10.35	96.60	3409
4.50	6.50	3410K-ND	11.97	111.72	3410
4.50	8.50	3411K-ND	14.84	137.80	3411
4.50	17.00	3412K-ND	29.10	271.60	3412
6.00	17.00	3413K-ND	39.18	365.68	3413

Miscellaneous Hardware

Description	Digi-Key Part No.	Pricing 1	10	Keystone Part No.
Spacers				
Aluminum Economy, #6 screw, 0.625"L	410K-ND	.14	1.32	410
Round, Swage Clear, #6 screw, 0.109"L	5064-2K-ND	.66	5.78	5064-2
Threaded Standoff				
Force-Fit, 4-40 Thread, 0.065"L	4861K-ND	.78	7.33	4861
Phenolic, 6-32 Thread, 0.750"L	386K-ND	.88	8.28	386
Round Swage, 2~56 Thread, 0.125"L	1589-2K-ND	.52	4.92	1589-2
Hex Swage, 6-32 Thread, 0.375"L	1622-2K-ND	.75	7.02	1622-2
PCI Computer Bracket	9203K-ND	2.24	20.70	9203K

RoHS COMPLIANT ~ ISO 9001 CERTIFIED

KEYSTONE ELECTRONICS CORP

Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Zinc (ASTM B633)
- **Aluminum:** QQ-A-225/3, Alloy 2011-T3
  Plating: Clear Iridite (Mil-C-5541)

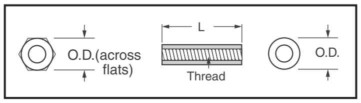

Note: Spacers over 1.000 long are tapped .375 deep each end.

Thread	O.D.	"L" Length (Inch)	Hex Thread Part No.	Pricing 10	Pricing 100	Round Thread Part No.	Pricing 10	Pricing 100
Aluminum								
2-56	.156	.187	1797AK-ND◆	7.01	63.80	1801AK-ND	6.20	59.40
	.156	.250	1797BK-ND◆	7.53	68.20	1801BK-ND◆	6.13	58.75
	.156	.312	1797CK-ND◆	7.83	71.00	1801CK-ND◆	6.64	63.80
	.156	.375	1797DK-ND◆	7.60	73.15	1801DK-ND◆	8.15	74.05
4-40	.187	.250	1891K-ND◆	3.50	28.80	2025K-ND◆	3.47	26.80
	.187	.375	1892K-ND	4.11	33.20	2026K-ND◆	4.00	31.85
	.187	.500	1893K-ND◆	4.52	38.80	2027K-ND◆	4.41	38.15
	.187	.625	1894K-ND◆	4.65	42.65	2028K-ND◆	4.56	40.75
	.187	.750	1895K-ND◆	5.15	47.15	2029K-ND◆	5.08	43.90
	.187	.875	1896K-ND◆	5.67	51.85	2030K-ND◆	5.57	49.30
	.187	1.000	1897K-ND◆	7.55	68.40	2031K-ND◆	7.55	68.40
	.250	.250	2201K-ND◆	3.38	27.70	3478K-ND◆	3.07	24.55
	.250	.375	2202K-ND◆	3.78	30.95	3479K-ND◆	3.39	27.70
	.250	.500	2203K-ND◆	4.19	33.85	3480K-ND◆	3.81	30.15
	.250	.625	1808K-ND◆	4.52	37.70	1839K-ND◆	4.14	33.55
	.250	.750	2204K-ND◆	4.46	40.50	3481K-ND◆	4.65	37.70
	.250	.875	1809K-ND◆	5.81	55.70	1846K-ND	6.08	55.45
	.250	1.000	2205K-ND◆	6.89	62.45	3482K-ND◆	6.72	61.30
	.250	1.500	2206K-ND◆	11.73	106.30	3483K-ND◆	11.35	102.85
	.250	2.000	2207K-ND◆	12.74	122.30	3484K-ND◆	12.37	119.05
6-32	.250	.250	2208K-ND◆	3.38	27.70	3485K-ND◆	3.07	24.55
	.250	.375	2209K-ND◆	3.78	30.95	3486K-ND◆	3.39	27.70
	.250	.500	2210K-ND◆	4.19	33.85	3487K-ND◆	3.81	30.15
	.250	.625	1813K-ND◆	4.77	37.90	1847K-ND◆	4.53	43.90
	.250	.750	2211K-ND◆	4.46	40.50	3488K-ND◆	4.65	37.70
	.250	.875	1816K-ND◆	4.75	44.45	1848K-ND◆	4.47	40.75
	.250	1.000	2212K-ND◆	6.89	62.45	3489K-ND◆	6.72	61.30
	.250	1.250	1818K-ND◆	10.39	94.75	1853K-ND◆	10.18	92.35
	.250	1.500	2213K-ND◆	11.73	106.30	3490K-ND◆	11.35	102.85
	.250	1.750	1819K-ND◆	12.25	111.05	1855K-ND◆	11.33	109.00
	.250	2.000	2214K-ND◆	12.74	122.30	3491K-ND◆	12.37	119.05
	.250	2.250	1820K-ND◆	14.14	136.15	1856K-ND◆	14.63	133.00
	.250	2.500	1825K-ND◆	15.46	148.60	1857K-ND	15.09	145.70
8-32	.250	.250	2215K-ND◆	3.38	27.70	3492K-ND◆	3.07	24.55
	.250	.375	2216K-ND◆	3.78	30.95	3493K-ND◆	3.39	27.70
	.250	.500	2217K-ND◆	4.19	33.85	3494K-ND◆	3.81	30.15
	.250	.625	1827K-ND◆	4.62	44.45	1858K-ND◆	4.14	33.55
	.250	.750	2218K-ND◆	4.98	47.80	3495K-ND	4.65	37.70
	.250	.875	1828K-ND◆	6.19	59.40	1859K-ND◆	4.50	40.30
	.250	1.000	2219K-ND◆	6.89	62.45	3496K-ND◆	6.72	61.30
	.250	1.500	2220K-ND◆	11.73	106.30	3497K-ND◆	12.41	117.35
	.250	2.000	2221K-ND◆	12.74	122.30	3498K-ND◆	12.37	119.05
	.375	.375	1926AK-ND◆	6.06	55.45	2315AK-ND	8.96	86.40
	.375	.500	1926BK-ND◆	6.35	57.60	2315BK-ND	9.48	90.90
	.375	.625	1926CK-ND	7.82	74.95	2315CK-ND◆	10.84	98.65
	.375	.750	1926DK-ND◆	9.65	87.85	2315DK-ND◆	11.64	105.85
	.375	1.000	1926EK-ND◆	11.02	106.65	2315EK-ND◆	13.06	126.10
Brass								
2-56	.156	.187	1798AK-ND◆	8.04	77.20	1802AK-ND◆	7.59	72.80
	.156	.250	1798BK-ND◆	10.19	92.60	1802BK-ND◆	8.67	79.00
	.156	.312	1798CK-ND◆	11.54	111.05	1802CK-ND◆	8.99	81.55
	.156	.375	1798DK-ND◆	13.20	119.60	1802DK-ND◆	8.99	81.55
4-40	.187	.250	1450K-ND◆	4.85	38.95	1547K-ND◆	4.88	38.15
	.187	.375	1803K-ND◆	5.68	46.00	1864K-ND◆	5.61	44.00
	.187	.500	1656K-ND◆	5.84	53.80	1657K-ND◆	5.78	52.45
	.187	.625	1804K-ND◆	7.10	64.15	1865K-ND◆	7.07	63.00
	.187	.750	1656AK-ND◆	8.02	72.25	1657AK-ND◆	7.81	71.00
	.187	.875	1805K-ND◆	9.84	90.25	1866K-ND◆	9.82	87.55
	.187	1.000	1656BK-ND◆	10.34	94.50	1657BK-ND◆	10.25	92.95
	.250	.250	1450AK-ND◆	4.53	36.25	1547AK-ND◆	5.22	50.30
	.250	.375	1450BK-ND◆	5.68	44.80	1547BK-ND◆	6.11	58.95
	.250	.500	1450CK-ND◆	5.74	53.55	1547CK-ND◆	7.45	71.55
	.250	.625	1829K-ND◆	7.76	71.20	1867K-ND	8.94	81.55
	.250	.750	1450DK-ND◆	8.88	83.25	1547DK-ND◆	10.01	91.35
	.250	.875	1830K-ND◆	9.44	87.10	1876K-ND	11.29	102.25
	.250	1.000	1450EK-ND◆	22.84	91.66	1547EK-ND◆	10.36	92.53
	.250	1.500	1831K-ND◆	21.61	208.15	1877K-ND◆	21.11	199.60
	.250	2.000	1832K-ND◆	22.15	213.20	1878K-ND◆	25.57	240.85
6-32	.250	.250	1451AK-ND◆	4.53	36.25	1548AK-ND◆	4.52	36.25
	.250	.375	1451BK-ND◆	5.68	44.80	1548BK-ND◆	4.95	40.75
	.250	.500	1451CK-ND◆	5.74	53.55	1548CK-ND◆	5.78	52.45
	.250	.625	1451DK-ND◆	7.76	71.20	1548DK-ND◆	6.31	59.30
	.250	.750	1451EK-ND◆	8.88	83.25	1548EK-ND◆	7.44	72.45
	.250	.875	1833K-ND◆	9.44	87.10	1879K-ND	8.85	83.25
	.250	1.000	1635K-ND◆	9.99	91.00	1548FK-ND◆	9.20	84.85
	.250	1.250	1636K-ND◆	14.87	142.75	1881K-ND	15.50	140.65
	.250	1.500	1637K-ND◆	18.26	165.60	1882K-ND	20.97	202.05
	.250	1.750	1638K-ND◆	21.89	210.95	1883K-ND	21.24	204.65
	.250	2.000	1639K-ND◆	22.15	213.20	1884K-ND	21.43	205.65
	.250	2.250	1642K-ND◆	22.60	218.05	1885K-ND◆	21.98	211.75
	.250	2.500	1643K-ND◆	23.25	224.10	1886K-ND	22.60	218.05
8-32	.250	.250	1474AK-ND◆	4.53	36.25	1692AK-ND	6.25	59.65
	.250	.375	1474BK-ND◆	5.68	44.80	1692BK-ND	6.96	63.35
	.250	.500	1474CK-ND◆	5.74	53.55	1692CK-ND◆	8.86	80.55
	.250	.625	1834K-ND◆	7.76	71.20	1887K-ND◆	10.14	92.05
	.250	.750	1474DK-ND◆	8.88	83.25	1692DK-ND	12.01	109.00
	.250	.875	1836K-ND◆	10.16	91.90	1888K-ND	11.49	104.40
	.250	1.000	1474EK-ND◆	9.99	91.00	1692EK-ND◆	11.65	112.15
	.250	1.500	1837K-ND◆	21.61	208.15	1889K-ND	20.97	202.05
	.250	2.000	1838K-ND◆	22.15	213.20	1899K-ND	22.53	217.25
	.375	.375	1452AK-ND◆	11.69	110.35	1549AK-ND	13.05	118.25
	.375	.500	1452BK-ND◆	11.70	112.50	1549BK-ND	14.07	127.70
	.375	.625	1452CK-ND◆	17.38	164.50	1549CK-ND	16.91	160.10
	.375	.750	1452DK-ND◆	16.44	155.25	1549DK-ND	18.54	175.05
	.375	1.000	1452EK-ND◆	21.05	203.20	1549EK-ND◆	23.54	222.75

◆ *RoHS Compliant*

1/4" Hex Threaded Standoff Kit

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

STH-22KIT-ND◆.. **$767.67**

NEW! 400 Piece Threaded Standoff Kits

Assortment of 400 total standoffs. Female-Female standoffs and Male-Female standoffs both Aluminum and Nylon, with lengths of .250, .500, .750 and 1.000. 25 pieces of each size. Complete with cabinet and 25 machine screws with matching thread.

STR-440K-ND◆	(STR-440)	4-40 Threaded Standoffs	**$170.97**
STR-632K-ND◆	(STR-632)	6-32 Threaded Standoffs	**$170.97**
STR-832K-ND◆	(STR-832)	8-32 Threaded Standoffs	**$170.97**

◆ *RoHS Compliant*

Male/Female .250" Hex Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Nickel (QQ-N-290)
- **Aluminum:** QQ-Q-225/3
  Plating: Clear Iridite (Mil-C-5541)

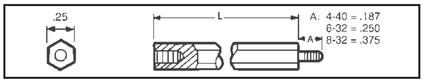

Length (Inch)	4-40 Thread Part No.	Pricing 10	Pricing 100	6-32 Thread Part No.	Pricing 10	Pricing 100	8-32 Thread Part No.	Pricing 10	Pricing 100
Aluminum									
.250	8714K-ND◆*	3.92	37.70	8717K-ND◆*	4.35	42.10	—	—	—
.375	8400K-ND◆†	4.45	43.00	8413K-ND◆†	4.61	44.35	8426K-ND◆†	6.10	58.50
.500	8401K-ND◆	6.20	59.40	8414K-ND◆	4.67	44.90	8427K-ND◆	6.20	59.40
.625	8402K-ND◆	6.68	64.15	8415K-ND◆	5.89	56.50	8428K-ND◆	6.68	64.15
.750	8403K-ND◆	6.79	65.05	8416K-ND◆	6.31	57.40	8429K-ND◆	7.10	68.20
.875	8404K-ND◆	7.37	70.75	8417K-ND◆	6.87	62.45	8430K-ND◆	8.39	76.05
1.000	8405K-ND◆	7.79	74.70	8418K-ND◆	6.79	65.05	8431K-ND◆	8.37	80.20
1.125	8406K-ND◆	9.55	91.80	8419K-ND◆	7.00	67.30	8432K-ND◆	11.94	108.45
1.250	8407K-ND◆	10.25	92.95	8420K-ND◆	7.47	71.55	8433K-ND◆	12.37	112.40
1.375	8408K-ND◆	12.01	108.90	8421K-ND◆	9.01	81.70	8434K-ND◆	13.35	121.30
1.500	8409K-ND◆	12.29	111.50	8422K-ND◆	9.70	93.15	8435K-ND	13.49	122.30
1.625	8410K-ND◆	11.90	114.40	8423K-ND◆	10.47	94.95	8436K-ND◆	13.62	123.65
1.750	8411K-ND◆	12.93	117.45	8424K-ND◆	10.98	99.70	8437K-ND	13.77	125.00
2.000	8412K-ND	13.35	121.30	8425K-ND◆	10.55	101.25	8438K-ND◆	13.91	126.10
Brass									
.250	8713K-ND◆*	5.65	53.80	8716K-ND◆*	5.51	53.20	—	—	—
.375	7200K-ND◆†	6.63	60.20	7210K-ND◆†	6.83	62.00	7220K-ND◆†	7.48	71.55
.500	1944K-ND◆	8.14	78.30	1952K-ND◆	7.02	67.50	1957K-ND◆	7.55	72.45
.625	1945K-ND◆	8.27	79.30	1953K-ND◆	9.48	85.95	1958K-ND◆	11.16	101.15
.750	1946K-ND◆	9.85	94.50	1954K-ND◆	9.97	90.35	1959K-ND◆	11.03	106.00
.875	7201K-ND◆	10.60	96.20	7211K-ND◆	10.76	103.30	7221K-ND◆	12.08	116.00
1.000	1947K-ND◆	11.03	106.00	1644K-ND◆	11.78	106.90	1960K-ND◆	12.67	121.95
1.125	7202K-ND◆	12.69	115.00	7212K-ND◆	11.82	113.75	7222K-ND◆	14.44	131.05
1.250	1948K-ND◆	18.00	163.25	1955K-ND◆	14.85	134.55	1961K-ND◆	18.00	163.25
1.375	1949K-ND◆	18.44	167.40	1956K-ND◆	15.16	145.80	1962K-ND◆	18.44	167.40
1.500	1950K-ND◆	19.30	175.05	1645K-ND◆	15.35	147.25	1963K-ND◆	19.30	175.05
1.625	7203K-ND◆	19.48	176.85	7214K-ND◆	19.48	176.85	7224K-ND	19.29	182.60
1.750	7205K-ND◆	20.46	197.55	7215K-ND◆	20.46	197.55	7225K-ND◆	20.46	197.55
2.000	1951K-ND◆	20.63	199.15	1646K-ND◆	20.63	199.15	1964K-ND◆	20.63	199.15
.600	8799K-ND◆‡	6.63	63.55	—	—	—	—	—	—
Nylon 6/6									
.250	4800K-ND◆	4.58	43.90	4814K-ND◆*	4.58	43.90	4828K-ND*	4.58	43.90
.375	4801K-ND◆	4.67	45.25	4815K-ND◆	4.67	45.25	4829K-ND◆†	4.67	45.25
.500	4802K-ND◆	4.85	46.90	4816K-ND◆	4.85	46.90	4830K-ND◆	4.85	46.90
.625	4803K-ND◆	4.95	47.60	4817K-ND◆	4.95	47.60	4831K-ND◆	4.95	47.60
.750	4804K-ND◆	5.05	48.60	4818K-ND◆	5.05	48.60	4832K-ND◆	5.05	48.60
.875	4805K-ND◆	5.46	49.95	4819K-ND◆	5.46	49.95	4833K-ND◆	5.46	49.95
1.000	4806K-ND◆	5.56	50.50	4820K-ND◆	5.56	50.50	4834K-ND◆	5.56	50.50
1.125	4807K-ND◆	5.29	50.75	4821K-ND◆	5.29	50.75	4835K-ND◆	5.29	50.75
1.250	4808K-ND◆	5.33	50.95	4822K-ND◆	5.33	50.95	4836K-ND	5.33	50.95
1.375	4809K-ND◆	5.42	52.10	4823K-ND◆	5.42	52.10	4837K-ND◆	5.42	52.10
1.500	4810K-ND◆	5.86	53.20	4824K-ND◆	5.86	53.20	4838K-ND◆	5.86	53.20
1.625	4811K-ND◆	5.61	53.90	4825K-ND◆	5.61	53.90	4839K-ND	5.61	53.90
1.750	4812K-ND◆	6.06	55.25	4826K-ND◆	6.06	55.25	4840K-ND◆	6.06	55.25
2.000	4813K-ND◆	5.80	55.70	4827K-ND◆	5.80	55.70	4841K-ND◆	5.80	55.70
.600	4799K-ND◆‡	4.91	47.25	—	—	—	—	—	—
Stainless Steel — RoHS Compliant									
.250	8712K-ND	20.29	194.05	—	—	—	—	—	—
.375	2087K-ND	21.22	203.20	—	—	—	—	—	—
1.000	2092K-ND	25.88	247.60	—	—	—	—	—	—
1.250	—	—	—	2126K-ND	29.41	281.25	—	—	—

◆ *RoHS Compliant*
* Internal Thread .130/.150 deep † Internal Thread .250 deep ‡ PC/104 and PC/104 Plus

Hex Brass Standoff Kit Assortment of 750 in 1/2", 3/4", 1", 1-1/4", and 1-1/2" lengths with thread sizes of 4-40, 6-32 and 8-32. 50 pieces of each size complete with cabinet.

STH-19KIT-ND.. **$944.76**

Metric Hex Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Nickel (QQ-N-290)
- **Aluminum:** ASTM B211
  Plating: Clear Iridite
  (Mil-C-5541)
- **Nylon:** 6/6, UL Rated 94V-2

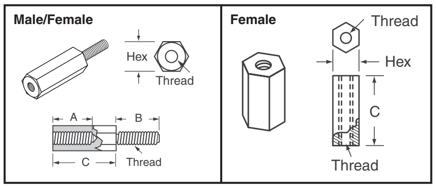

Dimensions – mm			Digi-Key Part No.	Pricing	
A	B	C		10	100
5mm Hex (M3 Thread)					
Brass - Male/Female					
8.0	8.0	10.0	24313K-ND	10.08	91.60
8.0	8.0	12.0	24314K-ND	9.73	93.60
8.0	8.0	15.0	24315K-ND	10.79	97.90
8.0	8.0	18.0	24316K-ND	11.65	106.00
8.0	8.0	20.0	24317K-ND	11.99	108.80
8.0	8.0	25.0	24318K-ND	12.44	119.60
Brass - Female					
—	—	5.0	24390K-ND	6.62	60.20
—	—	6.0	24391K-ND	5.42	51.55
—	—	8.0	24392K-ND	7.07	67.75
—	—	10.0	24393K-ND	6.34	57.60
—	—	12.0	24394K-ND	6.25	60.10
—	—	15.0	24395K-ND	8.21	79.00
—	—	18.0	24396K-ND	7.18	69.75
—	—	20.0	24397K-ND	10.28	93.60
—	—	25.0	24398K-ND	11.27	102.70
Aluminum - Male/Female					
8.0	8.0	10.0	24337K-ND	4.24	40.95
8.0	8.0	12.0	24338K-ND	5.91	56.60
8.0	8.0	15.0	24339K-ND	6.36	61.10
8.0	8.0	18.0	24340K-ND	6.46	61.90
8.0	8.0	20.0	24341K-ND	7.02	67.40
8.0	8.0	25.0	24342K-ND	8.35	78.30
Aluminum - Female					
—	—	5.0	24430K-ND	2.87	26.90
—	—	6.0	24431K-ND	2.82	26.45
—	—	8.0	24432K-ND	3.14	29.15
—	—	10.0	24433K-ND	3.15	29.35
—	—	12.0	24434K-ND	3.49	32.20
—	—	15.0	24435K-ND	3.76	35.90
—	—	18.0	24436K-ND	3.88	38.50
—	—	20.0	24437K-ND	5.53	53.10
—	—	25.0	24438K-ND	6.17	59.40
Nylon - Male/Female					
8.0	8.0	10.0	25501K-ND	4.44	43.10
8.0	8.0	12.0	25502K-ND	4.62	44.55
8.0	8.0	15.0	25503K-ND	4.72	45.45
8.0	8.0	18.0	25504K-ND	4.81	46.25
8.0	8.0	20.0	25505K-ND	4.89	47.50
8.0	8.0	25.0	25506K-ND	4.98	48.05
Nylon - Female					
—	—	6.0	25508K-ND	4.89	48.70
—	—	8.0	25509K-ND	5.20	51.55
—	—	10.0	25510K-ND	5.01	49.30
—	—	12.0	25511K-ND	5.21	52.00
—	—	15.0	25512K-ND	5.68	55.15
—	—	18.0	25513K-ND	6.70	66.50
—	—	20.0	25514K-ND	6.40	61.75
—	—	25.0	25515K-ND	6.74	66.70
6mm Hex (M4 Thread)					
Brass - Male/Female					
11.0	10.0	10.0	24325K-ND‡	5.75	55.15
11.0	10.0	12.0	24326K-ND†	5.81	55.70
11.0	10.0	15.0	24327K-ND	8.08	77.75
11.0	10.0	18.0	24328K-ND	8.48	81.55
11.0	10.0	20.0	24329K-ND	9.29	89.10
11.0	10.0	25.0	24330K-ND	9.74	93.70
Brass - Female					
—	—	5.0	24410K-ND	3.11	28.45
—	—	6.0	24411K-ND	3.05	28.00
—	—	8.0	24412K-ND	3.56	32.75
—	—	10.0	24413K-ND	3.49	34.55
—	—	12.0	24414K-ND	4.42	41.20
—	—	15.0	24415K-ND	6.83	64.15
—	—	18.0	24416K-ND	7.26	66.95
—	—	20.0	24417K-ND	6.83	64.15
—	—	25.0	24418K-ND	7.03	70.00
Aluminum - Male/Female					
11.0	10.0	10.0	24349K-ND‡	5.81	55.70
11.0	10.0	12.0	24350K-ND†	5.91	56.60
11.0	10.0	15.0	24351K-ND	6.36	61.10
11.0	10.0	18.0	24352K-ND	6.77	64.90
11.0	10.0	20.0	24353K-ND	7.52	72.45
11.0	10.0	25.0	24354K-ND	7.97	76.40
Aluminum - Female					
—	—	5.0	24450K-ND	2.87	26.90
—	—	6.0	24451K-ND	2.82	26.45
—	—	8.0	24452K-ND	3.14	29.15
—	—	10.0	24453K-ND	3.15	29.35
—	—	12.0	24454K-ND	3.49	32.20
—	—	15.0	24455K-ND	4.40	42.30
—	—	18.0	24456K-ND	4.74	45.70
—	—	20.0	24457K-ND	5.89	56.60
—	—	25.0	24458K-ND	6.17	59.40
Nylon - Male/Female					
9.5	9.5	10.0	25521K-ND	4.44	43.10
9.5	9.5	12.0	25522K-ND	4.62	44.55
9.5	9.5	15.0	25523K-ND	4.72	45.45
9.5	9.5	18.0	25524K-ND	4.81	46.25
9.5	9.5	20.0	25525K-ND	4.89	47.50
9.5	9.5	25.0	25526K-ND	4.98	48.05
Nylon - Female					
—	—	6.0	25528K-ND	4.89	48.70
—	—	8.0	25529K-ND	5.20	51.30
—	—	10.0	25530K-ND	5.01	49.30
—	—	12.0	25531K-ND	5.21	52.00
—	—	15.0	25532K-ND	5.68	55.15
—	—	18.0	25533K-ND	6.70	66.50
—	—	20.0	25534K-ND	6.40	61.75
—	—	25.0	25535K-ND	6.74	66.70

‡ Internal Thread: 6.0mm deep † Internal Thread: 8.0mm deep
Note: Female Standoffs longer than 19mm are tapped from both ends

Metric Screws

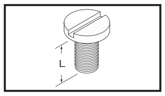

- **Steel:** Zinc Plate
- **Nylon:** 6/6, UL Rated 94V-2

Thread Size	Length – mm L	Digi-Key Part No.	Pricing	
			10	100
Steel				
M3	6	29311K-ND	3.19	30.05
	12	29314K-ND	3.30	31.15
	16	29316K-ND	3.64	34.30
	25	29318K-ND	3.76	35.35
M4	6	29321K-ND	3.42	32.20
	12	29324K-ND	3.56	33.40
	16	29326K-ND	4.18	39.25
	25	29328K-ND	4.66	43.90
Nylon				
M3	6	29341K-ND	1.61	15.65
	12	29344K-ND	1.66	16.20
	16	29346K-ND	1.68	16.30
	25	29348K-ND	1.70	16.55
M4	6	29351K-ND	1.77	17.20
	12	29354K-ND	1.80	17.45
	16	29356K-ND	1.81	17.55
	25	29358K-ND	1.83	17.65

Hinged Standoffs

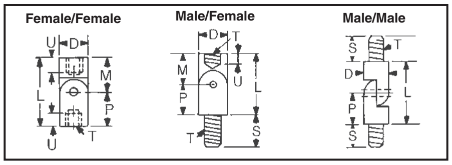

Thread T	Dia. – Inch D	Dimensions – Inch					Digi-Key Part No.	Pricing	
		L	S	U	M	P		10	100
Female/Female-Hinge									
4-40	.187	.750	—	.172	.375	.375	351K-ND	15.68	145.15
4-40	.187	1.000	—	.250	.375	.625	352K-ND	16.72	154.15
6-32	.250	.750	—	.172	.375	.375	353K-ND	22.37	206.55
6-32	.250	1.000	—	.250	.375	.625	354K-ND	22.84	211.60
8-32	.250	.750	—	.172	.375	.375	355K-ND	20.21	186.75
8-32	.250	1.000	—	.250	.375	.625	356K-ND	21.27	196.55
Male/Female-Hinge									
4-40	.187	.625	.250	.172	.375	.250	333K-ND	18.38	170.00
4-40	.187	.875	.250	.250	.625	.250	334K-ND	19.42	178.75
6-32	.250	.625	.312	.172	.375	.250	335K-ND	22.12	204.10
6-32	.250	.875	.312	.250	.625	.250	336K-ND	22.60	209.05
Male/Male-Hinge									
4-40	.187	.500	.250	—	—	.250	357K-ND	21.09	195.20
6-32	.250	.500	.312	—	—	.250	358K-ND	21.89	202.15
8-32	.250	.500	.312	—	—	.250	359K-ND	24.57	226.45

Ceramic Standoffs

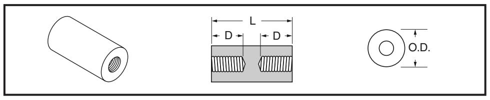

Thread Size	Diameter (Inch) O.D.	Length (Inch) L	Depth (Inch) D (2)	Digi-Key Part No.	Pricing	
					10	100
6-32	.250	.250	thru	7710K-ND◆	29.85	283.95
	.250	.500	.156	7711K-ND◆	33.95	317.60
	.375	.375	.156	7712K-ND	25.71	243.25
	.375	.500	.187	7713K-ND◆	29.09	275.95
	.500	.500	.140	7714K-ND	31.53	301.30
	.500	.750	.250	7715K-ND◆	33.12	317.60
	.500	1.000	.375	7716K-ND◆	35.52	334.35
	.500	1.500	.562	7717K-ND	41.96	401.05
	.500	2.500	.500	7718K-ND◆	54.11	510.20
1/4-20	.750	2.500	.750	7719K-ND◆	75.39	727.65
	.750	4.000	.750	7720K-ND	91.05	877.85

◆ *RoHS Compliant*

Metal Cable Clamps

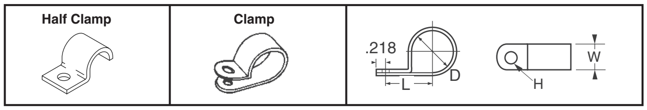

Dimensions – Inch D	L	W	H	Digi-Key Part No.	Pricing 10	100
Steel Half Clamps						
.125	.437	.500	.218	8140K-ND◆	1.71	16.90
.187	.437	.500	.218	8141K-ND◆	1.79	17.65
.250	.437	.500	.218	8142K-ND◆	1.93	18.55
.312	.500	.500	.218	8143K-ND	2.07	20.50
.375	.531	.625	.218	8144K-ND	2.42	23.30
.437	.562	.625	.218	8145K-ND◆	2.54	25.00
.500	.625	.625	.218	8146K-ND	3.18	30.50
.562	.687	.625	.218	8147K-ND◆	3.26	31.85
.625	.750	.625	.218	8148K-ND	3.41	32.50
.687	.812	.625	.218	8149K-ND	3.50	33.85
.750	.812	.625	.218	8150K-ND	3.64	34.90
.812	.875	.625	.218	8151K-ND	3.78	36.35
.875	.937	.750	.281	8152K-ND	4.12	39.70
.937	.968	.750	.281	8153K-ND	4.27	41.40
1.000	1.000	.750	.281	8154K-ND	9.36	88.20
Insulated Steel Half Clamps						
.187	.437	.500	.218	8160K-ND◆	4.62	44.45
.250	.500	.500	.218	8161K-ND◆	5.22	50.20
.312	.531	.625	.218	8162K-ND	5.91	56.70
.375	.562	.625	.218	8163K-ND	6.18	59.40
.437	.625	.625	.218	8164K-ND	6.97	66.95
.500	.687	.625	.218	8165K-ND◆	5.12	49.30
.562	.750	.625	.218	8166K-ND	5.30	50.95
.625	.812	.625	.218	8167K-ND	5.78	52.45
.687	.812	.625	.218	8168K-ND	5.63	53.90
.750	.875	.625	.218	8169K-ND	6.14	58.75
.812	.937	.750	.281	8170K-ND	9.72	91.80
.875	.968	.750	.281	8171K-ND	8.53	77.30
.937	1.000	.750	.281	8172K-ND	9.45	90.90
1.000	1.062	.750	.281	8173K-ND	8.90	85.50
Steel Clamps						
.250	.406	.500	.203	8101K-ND◆	2.11	20.60
.312	.437	.500	.203	8102K-ND◆	2.19	21.50
.375	.468	.500	.203	8103K-ND	2.28	21.70
.437	.500	.500	.203	8104K-ND◆	2.37	22.75
.500	.531	.500	.203	8105K-ND	2.49	24.10
.562	.562	.500	.203	8106K-ND	2.62	25.55
.625	.594	.500	.203	8107K-ND◆	2.71	26.55
.687	.625	.500	.203	8108K-ND◆	2.80	26.80
.750	.656	.500	.203	8109K-ND◆	2.88	27.70
.812	.687	.500	.203	8110K-ND	2.98	29.35
.875	.718	.500	.203	8111K-ND	3.07	29.95
.937	.750	.500	.203	8112KS-ND	3.19	30.50
1.000	.781	.500	.203	8113K-ND	3.26	31.85
Insulated Steel Clamps						
.187	.406	.500	.203	8121K-ND◆	3.95	37.90
.250	.437	.500	.203	8122K-ND◆	4.07	39.25
.312	.468	.500	.203	8123K-ND	4.23	40.75
.375	.500	.500	.203	8124KS-ND◆	4.37	42.30
.437	.531	.500	.203	8125K-ND◆	4.54	43.90
.500	.562	.500	.203	8126K-ND◆	4.70	45.55
.562	.594	.500	.203	8127K-ND◆	4.88	47.35
.625	.625	.500	.203	8128K-ND	5.35	48.70
.687	.656	.500	.203	8129K-ND	5.49	49.95
.750	.687	.500	.203	8130K-ND◆	5.33	51.30
.812	.718	.500	.203	8131K-ND	5.81	52.75
.875	.750	.500	.203	8132K-ND◆	5.98	54.70
.937	.781	.500	.203	8133K-ND◆	6.14	55.90
1.000	.812	.500	.203	8134K-ND◆	6.30	57.40

◆ RoHS Compliant

Nylon Cable Clamps

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics. Made of .050" thick nylon 6/6, white.

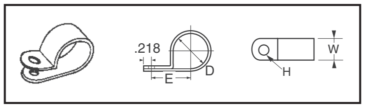

Dimensions – Inch D	E	W	H	Digi-Key Part No.	Pricing 100	500	1,000
.125	.325	.375	.140	7620K-ND	7.75	25.00	30.65
.125	.325	.375	.203	7621K-ND	7.75	25.00	30.65
.187	.380	.375	.140	7622K-ND	7.90	26.75	31.05
.187	.380	.375	.203	7623K-ND	7.90	26.75	31.05
.250	.410	.375	.140	7624K-ND	8.00	26.75	31.90
.250	.410	.375	.203	7625K-ND	8.00	26.75	31.90
.312	.445	.375	.140	7626K-ND	8.10	28.00	33.30
.312	.445	.375	.203	7627K-ND	8.10	28.00	33.30
.375	.475	.375	.140	7628K-ND	8.35	28.00	35.45
.375	.475	.375	.203	7629K-ND	8.35	28.00	35.45
.437	.525	.375	.140	7630K-ND	9.10	30.25	36.95
.437	.525	.375	.203	7631K-ND	9.10	30.25	36.95
.500	.550	.375	.140	7632K-ND	9.45	30.75	38.10
.500	.550	.375	.203	7633K-ND	9.45	30.75	38.10
.562	.625	.500	.203	7634K-ND	14.05	45.50	58.00
.625	.660	.500	.203	7635K-ND	14.40	47.25	60.90
.750	.785	.500	.203	7636K-ND	17.10	54.75	69.90
.875	.845	.500	.203	7637K-ND	17.90	58.75	74.30
1.000	.910	.500	.203	7638K-ND	18.55	62.25	77.35
1.125	.970	.500	.203	7639K-ND	26.55	87.00	109.30
1.125	1.060	.500	.203	7640K-ND	28.25	94.50	118.70

Recessed Bumpers

Provides excellent traction and shock absorbing qualities.
Materials:
Fig. 1 and 2: Rubber, BUNA S
Fig. 3: Vinyl

Fig. 1

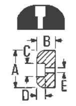

Fig. 2

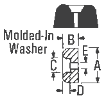

Fig. 3

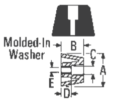

Fig.	Dimensions - Inch A	B	C	D	E	Screw Size	Digi-Key Part No.	Pricing 10	100
1	.500	.250	.250	.125	.125	#4	720K-ND	2.29	21.70
	.625	.312	.250	.187	.125	#4	721K-ND	3.64	34.90
	.718	.437	.250	.218	.125	#4	722K-ND	7.29	70.00
2	.937	.375	.375	.187	.187	#8	723K-ND	6.99	66.95
3	.562	.375	.218	.187	.115	#4	727K-ND	6.90	62.65
	.687	.250	.343	.125	.155	#6	724K-ND†	5.71	51.85
	.750	.437	.265	.250	.148	#6	728K-ND	7.33	70.45
	.875	.312	.406	.187	.187	#8	725K-ND†	10.54	95.85
	.937	.625	.359	.297	.174	#8	729K-ND	11.51	104.65
	1.062	.437	.468	.234	.200	#10	726K-ND†	13.13	119.05

† Gray — all others black

Flat Washers

Fibre: Commercial per ASTM D710, Grade CH
Nylon: Grade 6/6 per ASTM D4066

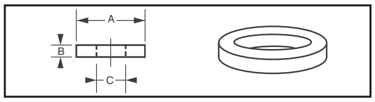

Dimensions – Inch O.D. A	Thick B	I.D. C	Digi-Key Part No.	Pricing 100	500
Nylon Material — #2 Screw Size					
.250	.032	.098	3347K-ND	4.75	16.25
Fibre Material — #4 Screw Size					
.250	.032	.120	3116K-ND	4.75	16.25
.312	.032	.120	348K-ND	4.75	16.25
.375	.032	.120	3117K-ND	5.05	16.75
.250	.047	.120	3154K-ND	4.75	16.25
.312	.047	.120	3155K-ND	4.75	16.25
.375	.047	.120	3156K-ND	5.30	18.50
.250	.062	.120	3368K-ND	4.75	16.25
.312	.062	.120	3196K-ND	5.05	16.75
.375	.062	.120	3197K-ND	5.05	16.75
Nylon Material — #4 Screw Size					
.250	.032	.120	3348K-ND	4.75	16.25
.312	.032	.120	3359K-ND	5.85	18.50
.375	.032	.120	3118K-ND	5.85	19.75
.250	.047	.120	345K-ND	5.85	18.50
.312	.047	.120	3157K-ND	5.05	16.75
.375	.047	.120	3158K-ND	5.05	16.75
.250	.062	.120	3358K-ND	4.75	16.25
.312	.062	.120	3198K-ND	5.85	19.75
.375	.062	.120	3200K-ND	5.85	18.50
Fibre Material — #6 Screw Size					
.250	.032	.140	3119K-ND	4.75	16.25
.312	.032	.140	3120K-ND	4.75	16.25
.375	.032	.140	3121K-ND	5.05	16.75
.250	.047	.140	3159K-ND	4.75	16.25
.312	.047	.140	3160K-ND	4.75	16.25
.375	.047	.140	3161K-ND	5.30	18.50
.250	.062	.140	3369K-ND	4.75	16.25
.312	.062	.140	3370K-ND	4.75	16.25
.375	.062	.140	3201K-ND	5.05	16.75
Nylon Material — #6 Screw Size					
.250	.032	.140	3122K-ND	4.75	16.25
.312	.032	.140	3349K-ND	4.75	16.25
.375	.032	.140	3123K-ND	5.85	19.75
.250	.047	.140	3162K-ND	4.75	16.25
.312	.047	.140	346K-ND	6.40	20.50
.375	.047	.140	3163K-ND	5.05	16.75
.250	.062	.140	3360K-ND	4.75	16.25
.312	.062	.140	3361K-ND	5.85	19.75
.375	.062	.140	3202K-ND	5.85	18.50
Fibre Material — #8 Screw Size					
.312	.032	.171	3124K-ND	4.75	16.25

Nylon Shoulder Washers/Bushings

Material: Nylon, Grades 6/6 per ASTM D4066

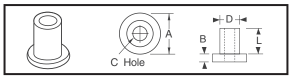

Dimensions – Inch L	A	B	C	D	Digi-Key Part No.	Pricing 100	500
#4 Screw Size							
.031	.218	.040	.115	.135	3049K-ND	7.75	25.00
.047	.250	.032	.115	.185	7681K-ND	9.10	30.25
.093	.235	.047	.115	.145	3053K-ND	12.95	44.75
.125	.235	.047	.115	.145	3102K-ND	12.95	43.25
.180	.235	.047	.115	.145	3103K-ND	12.95	43.25
.250	.235	.047	.115	.145	340K-ND	14.05	46.75
#6 Screw Size							
.032	.385	.062	.145	.240	7682K-ND	9.90	34.25
.032	.250	.062	.140	.187	7683K-ND	8.35	28.00
.032	.312	.062	.140	.187	7684K-ND	9.45	31.00
.125	.290	.047	.140	.170	3054K-ND	14.05	45.50
.187	.290	.047	.140	.170	3104K-ND	14.05	45.50
.250	.290	.047	.140	.170	341K-ND	14.05	46.75
.500	.290	.047	.140	.170	3055K-ND	15.10	49.50

B&F FASTENER SUPPLY

Quality You Can Measure - Service You Can Trust

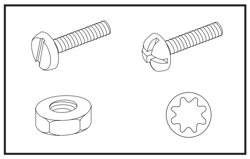

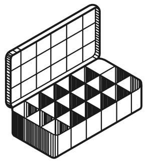

Digi-Key® Electronic Hardware Kits come complete with a divided plastic box for easy storage.

Zinc Plated Nuts and Washers

Descrip-tion	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56	H212-ND†★	1.31	10.51
No. 4 - 40	H216-ND†★	.93	7.44
No. 6 - 32	H220-ND‡†★§	1.44	11.52
No. 8 - 32	H224-ND‡†★§	1.95	15.60
No. 10 - 32	H228-ND‡§	1.98	15.84
Internal Tooth Lock Washers			
No. 2	H232-ND†★	7.41	59.28
No. 4	H236-ND†★	.97	7.78
No. 6	H240-ND‡†★§	1.13	9.07
No. 8	H244-ND‡†★§	1.20	9.60
No. 10	H248-ND‡§	1.47	11.76
Flat Washers			
No. 2	H776-ND	2.70	21.60
No. 4	H777-ND	2.81	22.46
No. 6	H778-ND	.97	7.78
No. 8	H779-ND	1.30	10.37
No. 10	H780-ND	1.62	12.96

Phillips Panhead Sheet Metal Screws

Steel, Zinc Plated

Descrip-tion	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H800-ND	1.92	15.36
4 x 1/2	H801-ND	2.40	19.20
4 x 3/4	H802-ND	2.55	20.40
6 x 3/8	H803-ND	1.85	14.78
6 x 1/2	H804-ND	2.67	21.36
6 x 3/4	H805-ND	2.60	20.83
8 x 3/8	H806-ND	2.67	21.36
8 x1/2	H807-ND	2.76	22.08
8 x 3/4	H808-ND	4.41	35.28

Hex Head Sheet Metal Screws

Steel, Zinc Plated

Descrip-tion	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H809-ND	9.72	77.76
4 x 1/2	H810-ND	10.73	85.87
4 x 3/4	H811-ND	13.38	107.04
6 x 3/8	H812-ND	5.58	44.64
6 x 1/2	H813-ND	7.60	60.82
6 x 3/4	H814-ND	9.54	76.32
8 x 3/8	H815-ND	7.84	62.74
8 x1/2	H816-ND	8.16	65.28
8 x 3/4	H817-ND	9.95	79.63

Phillips Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H330-ND†	6.39	51.12
2-56 x 1/2	H334-ND†	4.64	37.15
2-56 x 3/4	H338-ND	8.62	68.93
4-40 x 1/4	H342-ND†	2.98	23.81
4-40 x 5/16	H343-ND	2.55	20.40
4-40 x 3/8	H781-ND	1.98	15.84
4-40 x 1/2	H346-ND†	2.19	17.52
4-40 x 5/8	H348-ND	2.28	18.24
4-40 x 3/4	H350-ND	2.13	17.04
6-32 x 1/4	H354-ND†	1.92	15.36
6-32 x 5/16	H355-ND	2.10	16.80
6-32 x 3/8	H356-ND‡	2.22	17.76
6-32 x 7/16	H357-ND	4.74	37.92
6-32 x 1/2	H360-ND†	2.28	18.24
6-32 x 5/8	H364-ND‡	2.34	18.72
6-32 x 3/4	H368-ND‡	2.37	18.96
6-32 x 1	H372-ND‡	2.63	21.07
8-32 x 1/4	H376-ND	2.01	16.08
8-32 x 3/8	H380-ND†	2.15	17.23
8-32 x 1/2	H384-ND‡	2.85	22.80
8-32 x 5/8	H388-ND†	2.94	23.52
8-32 x 3/4	H392-ND‡	2.97	23.76
8-32 x 1	H396-ND‡	3.23	25.87
10-32 x 1/2	H400-ND‡	3.75	30.00
10-32 x 3/4	H404-ND‡	4.06	32.45
10-32 x 1	H408-ND‡	5.48	43.87

Slotted Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H130-ND★	8.18	65.42
2-56 x 1/2	H134-ND★	4.64	37.15
2-56 x 3/4	H138-ND	11.23	89.86
4-36 x 1/2	H140-ND	2.40	19.20
4-40 x 1/4	H142-ND★	2.27	18.14
4-40 x 5/16	H143-ND	2.46	19.68
4-40 x 1/2	H146-ND★	1.37	10.99
4-40 x 5/8	H148-ND	1.52	12.14
4-40 x 3/4	H150-ND	2.70	21.60
6-32 x 1/4	H154-ND★	1.89	15.12
6-32 x 5/16	H155-ND	1.54	12.34
6-32 x 3/8	H156-ND§	1.59	12.72
6-32 x 7/16	H157-ND	1.65	13.20
6-32 x 1/2	H160-ND★	2.07	16.56
6-32 x 5/8	H164-ND§	2.58	20.64
6-32 x 3/4	H168-ND§	2.64	21.12
6-32 x 1	H172-ND§	2.29	18.34
8-32 x 1/4	H176-ND	2.01	16.08
8-32 x 3/8	H180-ND★	2.15	17.23
8-32 x 1/2	H184-ND§	2.27	18.19
8-32 x 5/8	H188-ND★	2.50	19.97
8-32 x 3/4	H192-ND§	2.71	21.70
8-32 x 1	H196-ND§	3.23	25.87
10-32 x 1/2	H200-ND§	3.30	26.40
10-32 x 3/4	H204-ND§	4.06	32.45
10-32 x 1	H208-ND§	5.48	43.87

Digi-Key® Zinc Plated Hardware Kits

Sizes #2, #4, #6, and #8.
1600 pieces total.
100 pieces each of the parts denoted.

★ **1600-KIT-ND** (Slotted)........................... **$17.95**
† **602-KIT-ND** (Phillips)............................. **$17.95**

Sizes #6, #8, and #10.
1600 pieces total.
100 pieces each of the parts denoted.

§ **1601-KIT-ND** (Slotted)............................ **$27.95**
‡ **1603-KIT-ND** (Phillips) **$27.78**

Phillips Nylon Machine Screws

Nylon 66 - Melting Point is 500°F (260°C)

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H530-ND	8.86	70.90
2-56 x 1/2	H534-ND†	9.10	72.82
2-56 x 3/4	H538-ND	9.26	74.11
4-40 x 1/4	H542-ND†	8.86	70.90
4-40 x 3/8	H544-ND†	9.00	72.00
4-40 x 1/2	H546-ND†	9.10	72.82
4-40 x 5/8	H548-ND	9.19	73.54
4-40 x 3/4	H550-ND†	9.26	74.11
6-32 x 1/4	H554-ND†	9.26	74.11
6-32 x 3/8	H556-ND	9.43	75.46
6-32 x 1/2	H560-ND†	9.51	76.08
6-32 x 5/8	H564-ND	9.57	76.56
6-32 x 3/4	H568-ND	9.59	76.75
6-32 x 1	H572-ND	9.66	77.28
8-32 x 1/4	H576-ND†	9.17	73.34
8-32 x 3/8	H580-ND	9.24	73.92
8-32 x 1/2	H584-ND	9.04	72.34
8-32 x 5/8	H588-ND	9.46	75.70
8-32 x 3/4	H592-ND	9.42	75.36
8-32 x 1	H596-ND†	9.46	75.65
10-32 x 1/2	H600-ND	10.19	81.55
10-32 x 3/4	H604-ND	10.20	81.60
10-32 x 1	H608-ND†	10.38	83.04

Description	Digi-Key Part No.	Pricing 100	1,000
Nylon Hex Nuts			
2-56	H612-ND†	10.55	84.38
4-40	H616-ND†	10.50	84.00
6-32	H620-ND†	10.80	86.40
8-32	H624-ND†	11.06	88.46
10-32	H628-ND†	11.30	90.43

Digi-Key® Nylon Hardware Kits

Sizes #2, #4, #6, #8 and #10.
1500 pieces total.
100 pieces each
of the parts denoted.

† **1604-KIT-ND** (Phillips)...... **$53.94**

Rivets

Description	Digi-Key Part No.	Pricing 100	1,000
Aluminum Rivets			
3/32 x .250	H251-ND	9.07	72.58
3/32 x .375	H252-ND	9.12	72.96
1/8 x .212	H253-ND	7.38	59.04
1/8 x .275	H254-ND	5.58	44.64
1/8 x .337	H255-ND	6.03	48.24
1/8 x .400	H256-ND	6.21	49.68
1/8 x .462	H257-ND	10.08	80.64
1/8 x .650	H258-ND	12.33	98.64
Aluminum Large Flange Rivets			
1/8 x .275	H260-ND	10.38	83.04
1/8 x .400	H261-ND	10.80	86.40
1/8 x .525	H262-ND	13.20	105.60
Steel Rivets			
3/32 x .250	H263-ND	10.47	83.76
3/32 x .375	H264-ND	10.80	86.40
1/8 x .212	H265-ND	4.96	39.70
1/8 x .275	H266-ND	5.57	44.54
1/8 x .337	H267-ND	6.26	50.11
1/8 x .400	H268-ND	6.35	50.83
1/8 x .526	H269-ND	9.57	76.56
Steel Large Flange Rivets			
1/8 x .275	H270-ND	10.71	85.68
1/8 x .400	H271-ND	11.05	88.42
1/8 x .525	H272-ND	13.50	108.00

Hand Rivet Tools

HP-2®/39000

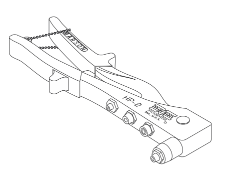

The HP-2 is the largest selling hand rivet tool in the industry. Its square shoulder fulcrum pin of cold-formed heat-treated steel prevents pin rotation that can elongate the engaging holes and cause premature tool failure in imitation tools. The HP-2 hand rivet tool sets up to 3/16" steel rivets and comes with four mounted nosepieces (3/32". 1/8". 5/32" and 3/16") and a service wrench.

H1001-ND........................ **$37.70**

200 Kit™/39001

The deluxe hand riveter kit includes the HP-2 and 200 assorted Klik-Fast rivets in popular sizes.

H1002-ND........................ **$68.12**

Metric Phillips, Panhead Machine Screws

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
M2 x 5mm	H738-ND§	6.72	53.76
M2 x 8mm	H739-ND§	7.05	56.40
M2 x 12mm	H740-ND§	5.90	47.23
M3 x 5mm	H742-ND§	5.94	47.52
M3 x 8mm	H743-ND§	6.60	52.80
M3 x 12mm	H744-ND§	6.90	55.20
M3 x 20mm	H745-ND§	11.33	90.62
M3 x 25mm	H746-ND§	11.46	91.68
M4 x 5mm	H747-ND★	7.20	57.60
M4 x 8mm	H748-ND★	7.56	60.48
M4 x 12mm	H749-ND★	8.76	70.08
M4 x 20mm	H750-ND★	11.55	92.40
M4 x 25mm	H751-ND★	12.60	100.80
M5 x 6mm	H752-ND	10.56	84.48
M5 x 8mm	H753-ND	10.80	86.40
M5 x 12mm	H754-ND	12.60	100.80
M5 x 20mm	H755-ND	17.70	141.60
M5 x 25mm	H756-ND	18.60	148.80
M6 x 8mm	H757-ND★	20.40	163.20
M6 x 12mm	H758-ND★	21.60	172.80
M6 x 20mm	H759-ND★	25.80	206.40
M6 x 25mm	H760-ND★	27.60	220.80

Metric Nuts and Washers

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
M2 Metric Hex Nut	H761-ND§	3.60	28.80
M3 Metric Hex Nut	H762-ND§	3.84	30.72
M4 Metric Hex Nut	H763-ND★	4.20	33.60
M5 Metric Hex Nut	H764-ND	4.80	38.40
M6 Metric Hex Nut	H765-ND★	5.34	42.72
Split Lock Washers			
M2 Lock Washers	H771-ND§	5.40	43.20
M3 Lock Washers	H772-ND§	4.26	34.08
M4 Lock Washers	H773-ND★	4.74	37.92
M5 Lock Washers	H774-ND	5.34	42.72
M6 Lock Washers	H775-ND★	6.30	50.40
Flat Washers			
M2 Flat Washers	H766-ND§	3.96	31.68
M3 Flat Washers	H767-ND§	3.60	28.80
M4 Flat Washers	H768-ND★	3.66	29.28
M5 Flat Washers	H769-ND	3.75	30.00
M6 Flat Washers	H770-ND★	4.80	38.40

Digi-Key® Metric Hardware Kits

Sizes M2 and M3. Zinc Plated.
1400 pieces total.
100 pieces each of the parts denoted.

§ **1605-KIT-ND** (Phillips)..................... **$59.95**

Sizes M4 and M6. Zinc Plated.
1500 pieces total.
100 pieces each of the parts denoted.

★ **1606-KIT-ND** (Phillips).................. **$99.95**

Phillips, Panhead Machine Screws

Stainless Steel

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H700-ND★	6.87	54.96
2-56 x 1/2	H701-ND★	5.28	42.24
2-56 x 3/4	H702-ND★	5.34	42.72
4-40 x 1/4	H703-ND★	4.13	33.02
4-40 x 5/16	H704-ND★	5.79	46.32
4-40 x 1/2	H705-ND★	7.35	58.80
4-40 x 3/8	H782-ND	5.22	41.76
4-40 x 5/8	H706-ND★	7.77	62.16
4-40 x 3/4	H707-ND★	8.39	67.10
6-32 x 1/4	H708-ND†	6.54	52.32
6-32 x 5/16	H709-ND	4.39	35.09
6-32 x 3/8	H710-ND	8.10	64.80
6-32 x 1/2	H711-ND†	7.73	61.82
6-32 x 5/8	H712-ND	5.52	44.16
6-32 x 3/4	H713-ND†	6.33	50.64
6-32 x 1	H714-ND	16.20	129.60
8-32 x 3/8	H715-ND†	11.70	93.60
8-32 x 1/2	H716-ND†	13.56	108.48
8-32 x 5/8	H717-ND	14.70	117.60
8-32 x 3/4	H718-ND†	9.18	73.44
8-32 x 1	H719-ND	10.56	84.48
10-32 x 1/2	H720-ND†	17.10	136.80
10-32 x 3/4	H721-ND†	20.82	166.56
10-32 x 1	H722-ND†	29.64	237.12

Stainless Steel Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56 Hex Nut	H723-ND★	4.99	39.94
No. 4 - 40 Hex Nut	H724-ND★	4.86	38.88
No. 6 - 32 Hex Nut	H725-ND†	6.84	54.72
No. 8 - 32 Hex Nut	H726-ND†	8.28	66.24
No. 10 - 32 Hex Nut	H727-ND†	6.05	48.38
Internal Tooth Lock Washers			
No. 2 Lock Washer	H728-ND★	3.55	28.42
No. 4 Lock Washer	H729-ND★	2.50	19.97
No. 6 Lock Washer	H730-ND†	2.30	18.43
No. 8 Lock Washer	H731-ND†	2.88	23.04
No. 10 Lock Washer	H732-ND†	3.07	24.58
Flat Washers			
No. 2 Flat Washer	H733-ND★	2.30	18.43
No. 4 Flat Washer	H734-ND★	3.36	26.88
No. 6 Flat Washer	H735-ND	3.66	29.28
No. 8 Flat Washer	H736-ND	3.90	31.20
No. 10 Flat Washer	H737-ND	7.80	62.40

Digi-Key® Stainless Steel Hardware Kits

Sizes #2 and #4.
1400 pieces total.
100 pieces each of the parts denoted.

★ **1607-KIT-ND** (Phillips).................... **$39.95**

Sizes #6, #8, and #10.
1500 pieces total.
100 pieces each of the parts denoted.

† **1608-KIT-ND** (Phillips).................... **$79.95**

PC Test Points

Features:
• Color keyed for visibility and quick identification • Economical choice for PC test point terminations • Snap-fit mounting provides positive retention for wave soldering • Wire form loop for safe, non-slip testing • Space saving, ultra low and low profile designs • High profile for difficult to reach applications • Suitable for high density packaging on .062" (1.57mm) and .093" (2.36mm) PC boards • Practical replacement for wire-wrap posts and turrets • Secure grip for J hooks, EZ hooks, grabbers, alligator clips, tips or probes • Ideal for reliable production testing and field service troubleshooting

Fig.	Base Color	Digi-Key Part No.	Price Each 10	100	500	Keystone Part No.
1	Red	5000K-ND	.34	.31	.21	5000
	Black	5001K-ND	.34	.31	.21	5001
	White	5002K-ND	.34	.31	.21	5002
	Orange	5003K-ND	.34	.31	.21	5003
	Yellow	5004K-ND	.34	.31	.21	5004
	Brown	5115K-ND ✔	.34	.31	.21	5115
	Green	5116K-ND ✔	.34	.31	.21	5116
	Blue	5117K-ND ✔	.34	.31	.21	5117
	Grey	5118K-ND ✔	.34	.31	.21	5118
	Purple	5119K-ND ✔	.34	.31	.21	5119
2	Red	5005K-ND	.34	.32	.21	5005
	Black	5006K-ND	.34	.32	.21	5006
	White	5007K-ND	.34	.32	.21	5007
	Orange	5008K-ND	.34	.32	.21	5008
	Yellow	5009K-ND	.34	.32	.21	5009
	Brown	5120K-ND ✔	.34	.32	.21	5120
	Green	5121K-ND ✔	.34	.32	.21	5121
	Blue	5122K-ND ✔	.34	.32	.21	5122
	Grey	5123K-ND ✔	.34	.32	.21	5123
	Purple	5124K-ND ✔	.34	.32	.21	5124
3	Red	5010K-ND	.34	.32	.21	5010
	Black	5011K-ND	.34	.32	.21	5011
	White	5012K-ND	.34	.32	.21	5012
	Orange	5013K-ND	.34	.32	.21	5013
	Yellow	5014K-ND	.34	.32	.21	5014
	Brown	5125K-ND ✔	.34	.32	.21	5125
	Green	5126K-ND ✔	.34	.32	.21	5126
	Blue	5127K-ND ✔	.34	.32	.21	5127
	Grey	5128K-ND ✔	.34	.32	.21	5128
	Purple	5129K-ND ✔	.34	.32	.21	5129
4	White	6042K-ND ✔	1.54	1.29	.93	6042
	Red	6043K-ND	1.54	1.29	.93	6043
	Black	6044K-ND	1.54	1.29	.93	6044
5	Black	11012-BK-ND ✔	3.11	3.05	2.68	11012-B
	Red	11012-RK-ND ✔	3.11	3.05	2.68	11012-R
	White	11012K-ND ✔	3.09	2.84	2.49	11012
6	Black	11014-BK-ND ✔	4.65	4.57	4.01	11014-B
	Red	11014-RK-ND ✔	4.65	4.57	4.01	11014-R
	White	11014K-ND ✔	3.80	3.74	3.28	11014
7	Black	11016-BK-ND ✔	4.12	4.05	3.55	11016-B
	Red	11016-RK-ND ✔	4.12	4.05	3.55	11016-R
	White	11016K-ND ✔	3.96	3.89	3.42	11016
8	None	5020K-ND ✔	.21	.20	.14	5020
9	None	5021K-ND ✔	.20	.18	.13	5021

✔ ***NEW!***

Fig. 1

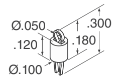

Fig. 2

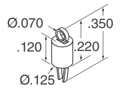

Fig. 3

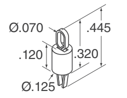

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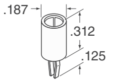

Fig. 5 ***NEW!***

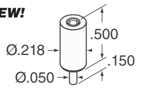

Fig. 6 ***NEW!***

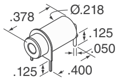

Fig. 7 ***NEW!***

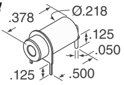

Fig. 8 ***NEW!***

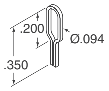

Fig. 9 ***NEW!***

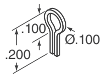

NEW! Terminal Pins and Turrets

Fig. 1

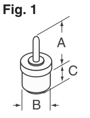

Fig. 2

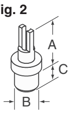

Fig. 3

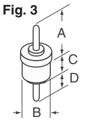

Fig. 4

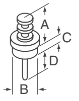

Fig. 5

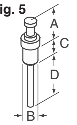

Fig. 6

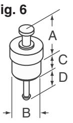

Fig. 7

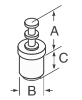

Fig. 8

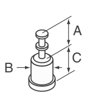

Fig. 9

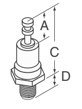

Fig. 10

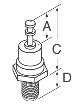

Fig. 11

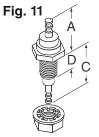

Fig. 12

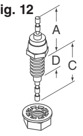

Fig.	Dimensions Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	.250 (6.4)	.148 (3.8)	.100 (2.5)	—	11071K-ND	.96	.84	.71	11071
	.585 (14.9)	.148 (3.8)	.100 (2.5)	—	11074K-ND	1.36	1.27	1.15	11074
2	.250 (6.4)	.148 (3.8)	.125 (3.2)	—	11100K-ND	1.36	1.27	1.15	11100
	.328 (8.3)	.171 (4.3)	.150 (3.8)	—	11113K-ND	1.56	1.45	1.32	11113
	.390 (9.9)	.171 (4.3)	.150 (3.8)	—	11114K-ND	1.56	1.45	1.32	11114
3	.315 (8.0)	.075 (1.9)	.100 (2.5)	.135 (3.43)	11150K-ND	1.56	1.45	1.32	11150
	.250 (6.4)	.093 (2.4)	.100 (2.5)	.165 (4.19)	11152K-ND	1.00	.88	.74	11152
	.250 (6.4)	.148 (3.8)	.100 (2.5)	.165 (4.19)	11155K-ND	1.27	1.18	1.07	11155
4	.250 (6.4)	.148 (3.8)	.100 (2.5)	.149 (3.78)	11216K-ND	1.11	.98	.82	11216
	.375 (9.5)	.148 (3.8)	.230 (5.8)	.238 (6.05)	11217K-ND	1.46	1.36	1.23	11217
5	.140 (3.6)	.075 (1.9)	.100 (2.5)	.270 (6.9)	11218K-ND	1.75	1.63	1.48	11218
6	.195 (5.0)	.172 (4.4)	.125 (3.2)	.180 (4.6)	11251K-ND	1.11	.98	.82	11251
7	.250 (6.4)	.093 (2.4)	.080 (2.0)	—	11301K-ND	1.22	1.08	.91	11301
	.194 (4.9)	.148 (3.8)	.140 (3.6)	—	11303K-ND	1.46	1.36	1.23	11303
	.290 (7.4)	.148 (3.8)	.165 (4.2)	—	11306K-ND	1.05	.92	.77	11306
	.437 (11.1)	.148 (3.8)	.165 (4.2)	—	11308K-ND	1.46	1.36	1.23	11308
8	.210 (5.3)	.148 (3.8)	.100 (2.5)	—	11311K-ND	1.46	1.36	1.23	11311
	.210 (5.3)	.171 (4.3)	.155 (3.9)	—	11312K-ND	1.46	1.36	1.23	11312
9	.154 (3.9)	—	.360 (9.1)	.125 (3.2)	11350K-ND	2.35	2.18	2.00	11350
10	.240 (6.0)	—	.510 (12.9)	.250 (6.4)	11351K-ND	3.07	2.84	2.60	11351
11	.425 (10.8)	—	.565 (14.3)	.250 (6.4)	11363K-ND	3.57	3.34	3.28	11363
12	.368 (9.3)	—	.510 (12.9)	.250 (6.4)	11364K-ND	5.34	4.99	4.90	11364

SMT Test Points

Miniature • Ultra low profile ideally suited for advanced surface mount printed circuit board applications • Designed for long life and durability • Manufactured using flat wire to provide a large mounting surface area • Ideal for use with miniature probes, clips, and hooks • Efficient, safe, board level testing.
Compact • Unique design provides exceptional strength and durability • Simplifies testing on dense SMT circuit boards • Ideal for use with most standard probes, clips and hooks • Efficient, safe, board level testing

Fig. 1 – Miniature

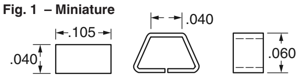

Fig. 2 – Compact

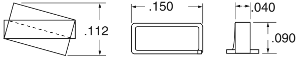

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 50	250	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Keystone Part No.
1	Miniature	5015KCT-ND	.34	.29	.24	5015KTR-ND	152.82	5015
2	Compact	5016KCT-ND	.31	.27	.22	5016KTR-ND	143.28	5016

Binding Post

Fig. 1

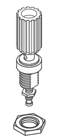

Fig. 2

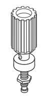

Fig. 3

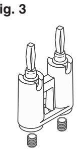

Fig. 4 ***NEW!***

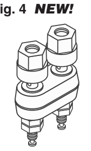

Fig. 5 ***NEW!***

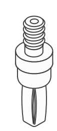

Fig. 6 ***NEW!***

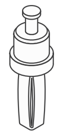

Fig. 7 ***NEW!***

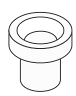

Fig. 8 ***NEW!***

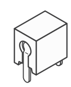

Fig. 9 ***NEW!***

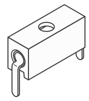

Fig. 10 ***NEW!***

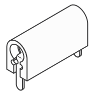

Fig. 11 ***NEW!***

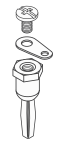

Fig. 12 ***NEW!***

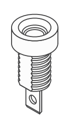

Fig. 13 ***NEW!***

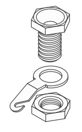

Fig. 14 ***NEW!***

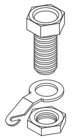

Fig. 15 ***NEW!***

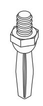

Fig. 16 ***NEW!***

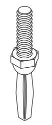

Fig. 17 ***NEW!***

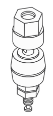

Fig. 18 ***NEW!***

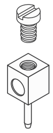

Fig. 19 ***NEW!***

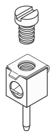

Fig.	Description	Base Color	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	Standard	Red	7004K-ND	4.80	4.48	4.34	7004
	Standard	Black	7005K-ND	4.80	4.48	4.34	7005
2	Economy	Red	7006K-ND	5.82	5.44	5.29	7006
	Economy	Black	7007K-ND	5.82	5.44	5.29	7007
3	Dual Banana Plugs	Red	6088K-ND	14.28	13.33	12.96	6088
	Dual Banana Plugs	Black	6089K-ND	14.28	13.33	12.96	6089
4	Standard Dual Hex Head	—	4108K-ND ***NEW!***	21.75	20.30	19.94	4108
	Standard Dual Hex Head	—	4109K-ND ***NEW!***	8.58	8.01	7.85	4109
	Standard Dual Hex Head	—	7018K-ND ***NEW!***	8.46	7.90	7.67	7018
	Standard Dual Hex Head	—	7019K-ND ***NEW!***	5.94	5.55	5.38	7019
5	Banana Plug Threaded 6-32	—	451K-ND ***NEW!***	1.35	1.27	1.25	451
6	Swage Mount Mini. Plug	—	452K-ND ***NEW!***	1.48	1.38	1.28	452
7	Non-Insulated Banana Jack	—	575-4K-ND ***NEW!***	.88	.83	.77	575-4
	Non-Insulated Banana Jack	—	575-8K-ND ***NEW!***	.88	.83	.77	575-8
8	Mini. Horizontal PC Test Jack	White	6048K-ND ***NEW!***	1.17	1.09	.92	6048
	Mini. Horizontal PC Test Jack	Red	6049K-ND ***NEW!***	1.17	1.09	.92	6049
	Mini. Horizontal PC Test Jack	Black	6050K-ND ***NEW!***	1.17	1.09	.92	6050
9	Universal Horizontal PC Test Jack	White	6054K-ND ***NEW!***	1.24	1.09	.85	6054
	Universal Horizontal PC Test Jack	Red	6055K-ND ***NEW!***	1.24	1.09	.85	6055
	Universal Horizontal PC Test Jack	Black	6056K-ND ***NEW!***	1.24	1.09	.85	6056
10	Low Profile Horizontal PC Test Jack	White	6060K-ND ***NEW!***	1.80	1.68	1.41	6060
	Low Profile Horizontal PC Test Jack	Red	6061K-ND ***NEW!***	1.80	1.68	1.41	6061
	Low Profile Horizontal PC Test Jack	Black	6062K-ND ***NEW!***	1.80	1.68	1.41	6062
11	Internal Thread Banana Plugs	—	6072K-ND ***NEW!***	2.23	2.06	1.85	6072
12	Fully Insulated Banana Jacks	Red	6091K-ND ***NEW!***	1.50	1.40	1.17	6091
	Fully Insulated Banana Jacks	Black	6092K-ND ***NEW!***	1.50	1.40	1.17	6092
13	Non-Insulated Banana Jacks	—	6095K-ND ***NEW!***	1.35	1.26	1.00	6095
14	Non-Insulated Banana Jacks	—	6096K-ND ***NEW!***	1.35	1.26	1.00	6096
15	Banana Plug	—	654K-ND ***NEW!***	2.20	2.03	2.00	654
16	Banana Plug	—	655K-ND ***NEW!***	2.20	2.03	2.00	655
17	Standard Hex Head Binding Post	Red	7016K-ND ***NEW!***	5.46	5.10	4.95	7016
	Standard Hex Head Binding Post	Black	7017K-ND ***NEW!***	5.46	5.10	4.95	7017
	Standard Hex Head Binding Post	White	7023K-ND ***NEW!***	5.46	5.10	4.95	7023
	Standard Hex Head Binding Post	Yellow	7024K-ND ***NEW!***	5.46	5.10	4.95	7024
18	Mini Binding Post	—	8730K-ND ***NEW!***	.32	.30	.28	8730
19	Mini Binding Post	—	8737K-ND ***NEW!***	.38	.36	.34	8737

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Electronics Vacuum and Accessories

Electronic Vacuum

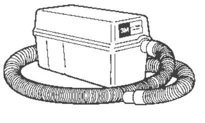

Complete with hose, 32" ~ 10 ft. (81.28cm ~ 3.05 meters), wand, crevice tool, crevice tool brush, dusting brush, needle nozzle, 3 year warranty. **OPTIONS:** Shoulder strap with shoulder pad **Dimensions:** Length: 17.80" (45.21cm). Width: 7.75" (19.69cm). Height: 9.25" (23.50cm). Weight: 9 lbs. 14 oz. (4.48kg). **Motor:** 1HP, continuous duty, thermally protected with automatic reset. Conducted RFI filtered (reduces EMI to be below FCC requirements). **Filter: Type 1, Small Particle:** For trapping extremely fine particles. Typical applications color laser printers, color copiers and highly sensitive equipment. **Type 2, Medium Particle:** Designed to trap unwanted toner from copiers and laser printers, cleaning typewriters and data processing equipment.

Description	Digi-Key Part No.	Price Each 1	Price Each 10	3M Part No.
Electronic Vacuum Cleaner, 120 VAC, 5.0A	SCP148-ND	257.97	240.77	SV-497AJM
Electronic Vacuum Cleaner, 220 VAC, 2.5A	SCP288-ND	282.92	264.06	SV-497ABF
Replacement Hose for Electronic and Tool Case Vacuum Cleaners				
30" Hose, Stretches to Approximately 10'	SCP230-ND	41.34	—	SV-SH32
50" Hose, Stretches to Approximately 16'	SCP231-ND	68.78	—	SV-SH50
Accessories				
Carrying Strap with Shoulder Pad	SCP149-ND	12.70	11.85	SV-CS1
Type 1 Filter, Small Particle	SCP150-ND	26.60	24.84	SV-SPF1
Type 2 Filter, Medium Particle	SCP151-ND	14.68	13.70	SV-MPF2
Dusting Brush	SCP289-ND	11.66	—	SV-DBSD1
Needle Nose Nozzle	SCP290-ND	10.76	—	SV-NN
Curved Wand Nozzle	SCP293-ND	14.12	—	SV-WA2
Power Cord, 115 VAC	SCP291-ND	18.20	—	SV-PC15
Power Cord Receptacle with Filter, 120 VAC	SCP292-ND	71.13	—	SV-PCR3

Breadboard Jumper Wire Kit

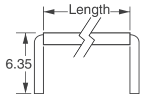

Kit contains: 350 wires (25 each of 14 different lengths)

- Wire is stripped
- Leads bent 90°
- Length is classified by color coding
- Wire is solid tinned 22 gauge
- PVC insulation

923351-ND **$35.42**

Length In. (mm)	Qty./ Pkg.	Color	Digi-Key Part No.	Price/ Pkg.
Replacement Wire				
0.1 (2.54)	200	(No Insulation)	923345-01-ND	12.70
0.2 (5.08)	200	Red	923345-02-ND	12.70
0.3 (7.62)	200	Orange	923345-03-ND	12.70
0.4 (10.16)	200	Yellow	923345-04-ND	12.70
0.5 (12.70)	200	Green	923345-05-ND	12.70
0.6 (15.24)	150	Blue	923345-06-ND	12.70
0.7 (17.78)	150	Violet	923345-07-ND	12.70
0.8 (20.32)	150	Gray	923345-08-ND	12.70
0.9 (22.86)	150	White	923345-09-ND	12.70
1.0 (25.40)	100	Brown	923345-10-ND	12.70
2.0 (50.80)	100	Red	923345-20-ND	12.70
3.0 (76.20)	75	Orange	923345-30-ND	12.70
4.0 (101.60)	75	Yellow	923345-40-ND	12.70
5.0 (127.00)	75	Green	923345-50-ND	12.70

3M Series 300 Solderless Breadboards

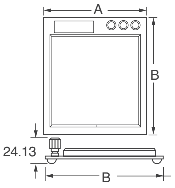

FEATURES: • 0.1" x 0.1" (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032" (.81mm) • Capacities range from 610 ~ 5424 tie points • Accommodate from 6 ~ 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bodies are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boards stationary during use and help to minimize noise and voltage spikes in today's high speed circuits.

Model No.	DIP Capacity (Size)	Base Dimension Inch (cm) A	Base Dimension Inch (cm) B	Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Price Each
354	54 (14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	135.59
345	45 (14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	121.57
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	88.30
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	85.12
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	53.14
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	30.41
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	26.97

Super Strips and Circuit Strips

Universal Breadboarding Elements with Solderless Plug-In Tie Points

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected with ordinary solid hook-up wire; #22 AWG is recommended.
All sizes of DIPs and discrete components with lead diameters up to .032" (.82mm) can be accommodated. These handy strips may be permanently mounted with the integral non-shorting instant-mounting backing, or for quick removal, they may be mounted with screws on panels up to 1/8" (3.18mm) thick.
Hardware and mounting templates are provided with every strip.

SPECIFICATIONS	SUPER-STRIP	CIRCUIT-STRIP
Size:	2.25" x 6.50" x .32" (57.15mm x 165.10mm x 8.13mm)	2.25" x 4.90" x .32" (57.15mm x 124.46mm x 8.13mm)
Plug-In Tie-Points:	840	610
Materials: Body	Acetal Copolymer	Acetal Copolymer

Terminals	Digi-Key Part No.	Price Each
Super Strip		
Alloy 770	923252-ND	28.49
Gold (10m)	923748-ND	90.02

Terminals	Digi-Key Part No.	Price Each
Circuit Strip		
Alloy	923253-ND	16.75
Gold (10m)	923749-ND	91.07

Prototype Boards

Vector Prototyping Boards with punched holes are convenient economical tools for assembling circuit components and cost effective alternatives to custom designs. Use general purpose Plugboards and Bus specific for edgeboard connection prototyping, while Circboards are ideal for cutting down to smaller board sizes. **Features:** • Holes on 0.1" (2.54mm) grid .042" (1.07mm) diameter (.043" [1.09mm] on V1018 and V1029) • Ejector Hole • Plating: Gold/Nickel • Board Material: Epoxy Glass Composite.

PC/XT: • Marked edge contact identification • Gold plated edge contacts on 0.1" centers • Power and ground buses terminate to connectors • Pads on board and bracket accepts DB9-, 15-, 25- or 37-Pin I/O connector • Accepts Vector's press terminals for wiring and soldering • Holes are .042" (1.07mm) diameter or 0.1" (2.54mm) grid • 1/16" (1.59mm) thick epoxy glass material, gold/nickel contacts • Universal mounting bracket and card guide included • Layout planning sheets and instructions included

Circbords™: • .042" (1.07mm) diameter holes on 0.1" (2.54mm) grid • 1/16" (1.59mm) thick, epoxy glass composite boards • Flame retardant • Etched copper patterns are solder plated.

PC BOARD PATTERNS

A	Edgeboard Contacts Only	**F**	Interleaved Buses
B1	Pad Per Hole W/ Buses	**G**	Clearance-Hole Ground Plane
B2	Pad Per Hole Only	**H**	Voltage/Ground Planes
C	3-Hole Solder Pad W/Buses	**I**	Pad-Per-Hole Only
D	3-Hole Solder Pad, Zig-Zag Buses and Ground Plane	**J**	3-Hole Solder Pad
E	Buses Only - 2 Sides		

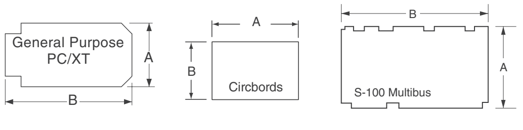

A
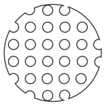
Bare Board

B1/B2
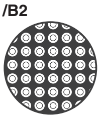
Pad per Hole

C
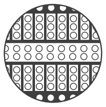
3 Hole Solder Pad

D
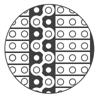
3 Hole with Zig Zag

E
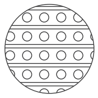
Continuous Buses

F
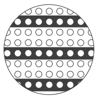
Interleaved Buses

G
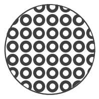
Ground Plane

H
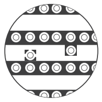
Volt/Gnd. Planes

I
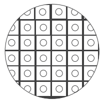
Square Pad per Hole

J
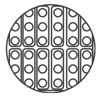
3 Hole Solder

PCB Pattern	Edge Contacts No.	Edge Contacts Spacing Inch (mm)	Dimensions Inch (cm) A	Dimensions Inch (cm) B	16-Pin Dip Cap.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Accessories: Connectors Solder Tail	Accessories: Connectors Wire Wrap	Accessories: Card Extender	Accessories: Card Racks	Vector Part No.
General Purpose Plugboards														
A	44	.156 (3.96)	4.50 (11.43)	9.60 (24.38)	50	V1129-ND◆	33.38	29.35	26.05	V1062	V1196	V1024	V1050	3662-2
B1/B1	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	48	V1018-ND	41.44	36.44	32.34	V1062	V1196	V1024	V1050-52	3662-9
A	44	.156 (3.96)	4.50 (11.43)	4.50 (11.43)	50	V1017-ND◆	23.00	20.23	17.95	V1062	V1196	V1024	V1050-52	3662-5
A	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	50	V1016-ND	25.84	22.72	20.17	V1062	V1196	V1024	V1050-52	3662
D	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	12	V1020-ND	27.63	24.29	21.56	V1062	V1196	V1024	V1050-52	3677-2
E	44	.156 (3.96)	4.50 (11.43)	9.60 (24.38)	40	V1128-ND	38.02	33.43	29.67	V1062	V1196	V1024	V1050	4112
E	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	25	V1031-ND	30.92	27.19	24.13	V1062	V1196	V1024	V1050-52	4112-4
E	44	.156 (3.96)	4.50 (11.43)	4.50 (11.43)	8	V1032-ND	28.03	24.64	21.87	V1062	V1196	—	—	4112-5
D	44	.156 (3.96)	4.50 (11.43)	9.60 (24.38)	21	V1019-ND	33.38	29.35	26.05	V1062	V1196	V1080	V1053	3677

◆ ***RoHS Compliant*** ◊ V2017-ND has .05" spacing with plated-thru holes. *(Continued)*

Prototype Boards *(Cont.)*

PCB Pattern	Edge Contacts		Dimensions Inch (cm)		16-Pin Dip Cap.	Digi-Key Part No.	Price Each			Accessories				Vector Part No.
										Connectors		Card Extender	Card Racks	
	No.	Spacing Inch (mm)	A	B			1	10	25	Solder Tail	Wire Wrap			
H	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	24	V1130-ND	50.38	44.29	39.31	V1062	V1196	V1024	V1050	3682-4
I	44	.156 (3.96)	4.50 (11.43)	6.50 (16.51)	90	V1131-ND	41.44	36.44	32.34	V1062	V1196	V1024	V1050	3662A6
A	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	50	V1027-ND◆	31.09	27.33	24.26	S1364	V1061	V1079	V1050-52	3719-1
B1	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	40	V1029-ND	44.04	38.72	34.37	S1364	V1061	V1079	V1050-52	3719-6
—	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	34	V1132-ND	27.28	23.99	21.29	S1364	V1061	V1024	V1050	4066-4
A	72	.100 (2.54)	4.50 (11.43)	9.60 (24.38)	90	V1028-ND	34.51	30.34	26.93	S1364	V1061	V1079	V1053	3719-4
PC/XT (Standard Bus)														
D	56	.125 (3.18)	4.50 (11.43)	6.50 (16.51)	20	V1111-ND	31.85	28.00	24.85	S2284	—	V1115	V1050-52	4610V
B1/B2	56	.125 (3.18)	4.50 (11.43)	6.50 (16.51)	52	V1114-ND	44.04	38.72	34.37	S2284	—	V1115	V1050-52	4610-3
CIRCBORDS (Plugboard Patterns Without The Expense of Edgeboard Connectors)														
G	—	—	3.00 (7.62)	3.50 (8.89)	—	V2018-ND	5.75	5.06	4.49	—	—	—	—	8022
B1/B1	—	—	2.00 (50.8)	3.00 (76.2)	72	V2025-ND	6.26	5.51	4.89	—	—	—	—	8029
—	—	—	3.94 (10.01)	6.30 (16.00)	—	V2017-ND◊	34.03	29.92	26.56	—	—	—	—	8021
G	—	—	4.00 (10.16)	6.00 (15.24)	15	V1035-ND	21.64	19.03	16.89	—	—	—	—	8019
D	—	—	4.50 (11.43)	6.50 (16.51)	20	V1044-ND	23.00	20.23	17.95	—	—	—	—	8001
H	—	—	4.50 (11.43)	6.50 (16.51)	35	V1045-ND	25.33	22.28	19.77	—	—	—	—	8002
K	—	—	4.50 (11.43)	6.50 (16.51)	60	V1046-ND	25.30	22.24	19.74	—	—	—	—	8003
I	—	—	4.50 (11.43)	6.50 (16.51)	50	V1047-ND	27.63	24.29	21.56	—	—	—	—	8004
B2/B2	—	—	5.00 (12.70)	13.25 (33.66)	154	V1048-ND	47.03	41.35	36.70	—	—	—	—	8006
B2/J	—	—	4.50 (11.43)	6.50 (16.51)	60	V1049-ND	27.61	24.28	21.55	—	—	—	—	8007
D	—	—	4.50 (11.43)	8.08 (20.52)	21	V1021-ND	22.04	19.38	17.20	—	—	—	—	3677-6
K/K	—	—	4.50 (11.43)	8.08 (20.52)	80	V1034-ND	26.39	23.20	20.59	—	—	—	—	45P80-1
K/K	—	—	4.50 (11.43)	8.08 (20.52)	80	V2022-ND	26.39	23.20	20.59	—	—	—	—	45P80-2
B2/B2	—	—	10.60 (26.92)	10.60 (26.92)	275	V1001-ND	61.66	54.21	48.11	—	—	—	—	106P106-1
B2/B2	—	—	12.86 (32.66)	4.00 (10.16)	124	V1117-ND	44.03	38.71	34.35	—	—	—	—	8010
B2/B2	—	—	11.00 (27.94)	9.20 (23.37)	283	V1118-ND	64.06	56.32	49.99	—	—	—	—	8012
S-100 Prototyping Boards														
B2/B2	50/100	.125 (3.18)	10.00 (25.40)	5.30 (13.46)	80	V1134-ND	50.03	43.99	39.04	—	—	—	—	8801-6
VME CIRCBORD Prototyping Boards														
B1	—	—	3.94 (10.01)	6.3 (16.00)	35	V1222-ND	22.35	19.65	17.44	—	—	—	—	E160-3U-1
I	—	—	3.94 (10.01)	6.3 (16.00)	45	V1223-ND	29.90	26.29	23.34	—	—	—	—	E160-3U-3
B1	—	—	6.3 (16.0)	9.19 (23.34)	100	V1226-ND	36.82	32.37	28.73	—	—	—	—	E160-6U-1
L	—	—	6.3 (16.0)	3.94(10.01)	20	V1224-ND	32.74	28.79	25.55	—	—	—	—	4614
B1	—	—	6.3 (16.0)	3.94(10.01)	30	V1225-ND	32.01	28.15	24.98	—	—	—	—	4614-3
D	—	—	6.3 (16.0)	9.19 (23.34)	50	V1228-ND	36.02	31.67	28.11	—	—	—	—	4615

◆ ***RoHS Compliant*** ◊ V2017-ND has .05" spacing with plated-thru holes.

Circuit Board Accessories

An excellent selection of socket pins, terminals, tools and accessories is available for all Vectorbord patterns, sizes and hole diameters. Perfect for breadboarding or prototyping using Vectorbord® plugboards™.

Fig. 1

Fig. 2

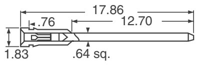

Fig. 3

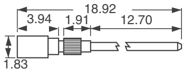

Fig. 4

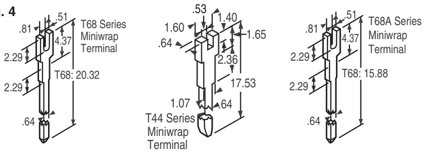

Fig. 5

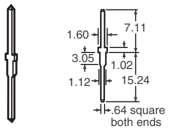

Fig. 6

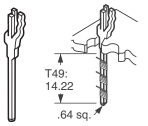

Fig. 7

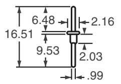

Material: Phosphor bronze

Fig. 8

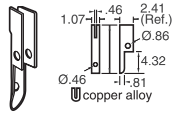

Fig. 9

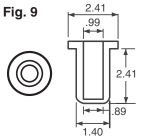

Fig. 10

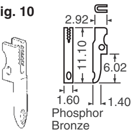

Fig. 11

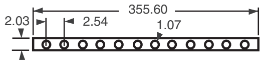

Install on circuit boards as an alternative to etched bus lines.

Fig. 12

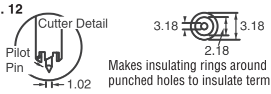

Makes insulating rings around pre-punched holes to insulate terminal points.

Fig. 13

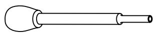

Fig. 14

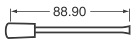

Fig. 15

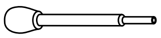

Fig.	Description	Pkg. Qty.	Digi-Key Part No.	Price Each 1	Price Each 10	Vector Part No.
1	Slip-On Contacts for Tab-To-Wire Connection	50	V1065-ND	149.66	131.57	T120-1/50
2	Lo-Profile IC Socket Pins for .055" (1.40mm) Dia. Holes, Wrap Post	100	V1058-ND	41.41	36.40	R31/C
3	Lo-Profile IC Socket Pins for .042" (1.07mm) Dia. Holes, Wrap Post	100	V1059-ND	43.66	38.39	R32/C
4	T44 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	100	V1071-ND	12.98	11.41	T44/C
	T44 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	1,000	V1072-ND	62.77	55.19	T44/M
	T68 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	100	V1077-ND	11.14	9.80	T68/C
	T68 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	1,000	V1078-ND	65.67	57.73	T68/M
5	Press-In Terminals with .025" (.64mm) Sq. Posts	100	V1074-ND	12.54	11.03	T46-5-9/C
6	Trifurcated Klipwrap Terminals with .025" (.64mm) Sq. Posts	100	V1075-ND	16.73	14.71	T49/C
7	Inboard Pins for 1/16" (1.60mm) Boards with .042" (1.07mm) Dia. Holes, Gold	1,000	V1054-ND	124.32	109.30	K24A/M
	Inboard Pins for 1/16" (1.60mm) Boards with .042" (1.07mm) Dia. Holes, Tin	1,000	V1055-ND	74.58	65.57	K24C/M
	Inboard Pin for .042" Hole, .65" Length	1,000	V2032-ND	52.23	45.92	K31C/M

Fig.	Description	Pkg. Qty.	Digi-Key Part No.	Price Each 1	Price Each 10	Vector Part No.
8	Micro-Klip Term. for 1/16" (1.60mm) Boards, .042" (1.07mm) Dia. Holes, Tin	100	V1069-ND	11.99	10.55	T42-1/C
	Micro-Klip Term. for 1/16" (1.60mm) Boards, .042" (1.07mm) Dia. Holes, Tin	1,000	V1070-ND	57.53	50.58	T42-1/M
—	J-Pin Terminals for 1.07" (.042mm) Dia. with Holes (use with Micro-Klip)	100	V1171-ND	18.40	16.18	K32/C
9	Rolled Flange Eyelet	500	V1066-ND	34.51	30.34	T123/500
10	Mini-Klip Term. for 1/16" (1.60mm) Boards with .062" (1.574mm) Dia. Holes, Tin	100	V1067-ND	12.32	10.84	T28/C
	Mini-Klip Term. for 1/16" (1.60mm) Boards with .062" (1.574mm) Dia. Holes, Tin	1,000	V1068-ND	72.80	64.00	T28/M
11	Bus Strips With Round Punched Holes	10	V1064-ND	11.33	9.96	T107/10
12	Pad Cutter Tool with Handle, .040" (1.02mm) Holes for Copper Clad Boards	1	V1056-ND	69.45	61.06	P138A
13	Hand Insertion Tool for T68		V1099-ND	32.14	28.26	A13-1
14	Hand Insertion Tool for T42-1		V1101-ND	32.49	28.56	P149
15	Hand Insertion Tool for K24A, T46		V1103-ND	78.28	68.82	P133A

VECTOR ELECTRONICS & TECHNOLOGY, INC

Card Extenders

Vector Card Extenders are specifically designed to provide in-system testing of functioning circuit boards.

Current Rating: 5A @ 108°F temperature rise

Voltage Rating: 200 RMS or 300 VDC. Circuit contacts are gold/nickel plated .000010" gold over .000050" nickel
Connector Contacts: Gold inlay .000030" thick, on CA725 copper/nickel alloy base

Board: epoxy glass composite - 2 oz. copperclad or FR4 per MIL-P-13949.

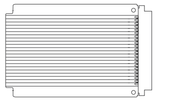

	Contacts		Dimensions			Price Each		
Total	Each Side	Centers Inches (mm)	Width x Height Inch (cm)	Bus System Application	Digi-Key Part No.	1	10	Vector Part No.
44	22	.156 (3.96)	4.5 x 6.5 (11.43 x 16.51)	—	V1024-ND	45.41	39.92	3690
56	28	.125 (3.18)	4.5 x 6.5 (11.43 x 16.51)	SDTI	V1115-ND	49.96	43.92	3690-16

Prepunched Insulating Boards

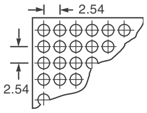

- Epoxy glass, except as noted

Dimensions - Inch (mm) Width x Length	Board Thickness Inch	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Micro-Vectorbords® — Holes .042" (1.07mm) Diameter; .100" (2.54mm) Grid						
4.5 x 17 (114.30 x 431.80)	.062	V1005-ND‡	15.03	13.22	11.73	169P44XXXP
4.5 x 6.5 (114.30 x 165.10)	.062	V1043-ND‡	8.14	7.16	6.35	64P44XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1004-ND	21.60	19.00	16.86	169P44WE
8 x 17 (203.20 x 431.80)	.062	V1007-ND	33.43	29.40	26.09	169P79WE
8.5 x 17 (215.90 x 431.80)	.062	V1011-ND	30.58	26.88	23.86	169P84WE
8.5 x 17 (215.90 x 431.80)	.062	V1012-ND*	36.31	31.92	28.33	169P84WEC1
4.5 x 6.5 (114.30 x 165.10)	.062	V1042-ND	8.10	7.12	6.32	64P44WE
4.5 x 17 (114.30 x 431.80)	.062	V1002-ND†	15.20	13.36	11.86	169P44
4.5 x 17 (114.30 x 431.80)	.062	V1003-ND*†	26.23	23.06	20.47	169P44C1
8 x 17 (203.20 x 431.80)	.062	V1006-ND†	36.82	32.37	28.73	169P79
8.5 x 17 (215.90 x 431.80)	.062	V1008-ND†	31.40	27.60	24.50	169P84
8.5 x 17 (215.90 x 431.80)	.062	V1009-ND*†	42.68	37.52	33.30	169P84C1
10 x 17 (254 x 431.80)	.062	V1013-ND†	45.10	39.65	35.19	169P99
10 x 17 (254 x 431.80)	.062	V2019-ND	45.10	39.65	35.19	169P99WE
6.5 x 4.5 (165.10 x 114.30)	.062	V1119-ND†	8.75	7.70	6.84	64P44
4.5 x 8.5 (114.30 x 215.90)	.062	V2026-ND†	9.30	8.18	7.26	84P44
4.5 x 8.5 (114.30 x 215.90)	.062	V1120-ND	12.79	11.25	9.99	84P44WE
6 x 17 (152.40 x 431.80)	.047	V1122-ND	21.09	18.55	16.46	169P59-047
6 x 17 (152.40 x 431.80)	.031	V1123-ND	21.59	18.98	16.85	169P59-032
6 x 17 (152.40 x 431.80)	.062	V1124-ND‡	16.73	14.71	13.05	169P59XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1126-ND*	21.09	18.55	16.46	169P44WEC1
12.00 x 12.00 (304.80 x 304.80)	.062	V2021-ND	15.45	13.59	12.06	12X12WEC1
4.5 x 17 (114.30 x 431.80)	.062	V1127-ND§	22.08	19.41	17.23	169P44C2
Vectorbords — Holes .062" (1.57mm) Diameter; .100" (2.54mm) Grid						
4.8 x 17 (121.92 x 431.80)	.062	V1014-ND	31.96	28.10	24.94	170H48WE
8.51 x 17 (216.15 x 431.80)	.062	V1015-ND	49.03	43.11	38.26	170H85WE
8.5 x 8.5 (215.90 x 215.90)	.062	V1121-ND	28.26	24.85	22.06	85H85WE
4.8 x 8.5 (121.92 x 215.90)	.062	V1125-ND	17.04	14.98	13.30	85H48WE
Vectorbords — Holes .025" (.64mm) Diameter; .050" (1.27mm) Grid						
4 x 6.5 (101.60 x 165.10)	.037	V1140-ND	25.30	22.24	19.74	126M76-032
4 x 17 (101.60 x 431.80)	.037	V1141-ND	23.00	20.23	17.95	336M76-032
4 x 17 (101.60 x 431.80)	.037	V1142-ND*	23.00	20.23	17.95	336M76-032C1
Vectorbords — Holes .025" (.64mm) Diameter; .079" (2mm) Grid						
3.94 x 6.3 (100 x 160)	.037	V2015-ND	13.92	12.24	10.87	47Q78WE

Material: ‡ Phenolic * Copper clad, 1 side. § Copper clad, 2 side. † Epoxy Glass Composite

Tefzel Wire

Description	Digi-Key Part No.	Price Each	Vector Part No.
150' (45.72m) 28AWG Tefzel Wire Green	V1085-ND	31.10	W28-6AU
150' (45.72m) 28AWG Tefzel Wire Red	V1086-ND	24.13	W28-6BU
150' (45.72m) 28AWG Tefzel Wire Blue	V1087-ND	26.83	W28-6DU
150' (45.72m) 28AWG Tefzel Wire White	V1088-ND	26.83	W28-6EU
150' (45.72m) 28AWG Tefzel Wire Yellow	V1089-ND	26.83	W28-6FU

Card Racks

Designed in accordance with EIA standard, these 19" (48.26cm) subracks are compatible with Vector prototyping boards. All racks are adjustable in both height and depth and can be used with snap-in, plastic or metal card guides. Available in kit form (CCK) or fully assembled (CCA) all models feature brushed aluminum construction with a full line of prototyping boards, extenders and backplanes available. Card racks include nylon snap-in card guides.

V1052

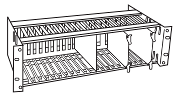

Card Size Range Inch (cm) W x H	Size - Inch (cm) Width x Depth	Height*	Guide Mount Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
3.00-5.00 x 4.5 (7.62-12.70 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1145-ND	194.59	171.08	CCK12S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1052-ND	194.59	171.08	CCK13S/90
8.60-10.1 x 8 (21.84-25.65 x 20.32)	19.00 x 12.00 (48.26 x 30.48)	5U	Snap-In	Nylon	V1148-ND	256.69	225.67	CCA17S/90
4.0-8.50 x 10.0 (10.16-21.59 x 25.40)	19.00 x 9.00 (48.26 x 22.86)	7U	Snap-In	Nylon	V1149-ND	216.22	190.08	CCK100S/90

* 3U = 5.25" (13.34cm); 5U = 8.75U (22.23cm); 7U= 12.25" (31.12cm)

Card Rack Accessories

Accessories for card rack enclosures for customizing your application. Card guides are tapered slides for PCB cards to slide along. Snap-In versions provide easy installation without the need for tools. Screw mount versions (comes with hardware) allow card placement anywhere within .25" (6.35mm) spacing.

Description	Length Inch (cm)	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Grab Handle with Hardware for Card Racks 5.25" (13.34cm) and 8.75" (22.23cm) height	—	V1161-ND	13.81	12.15	HA12
Pull Type Ejector Handle for Cards (4 pcs./bag)	—	V2031-ND	11.59	10.20	HA14
Ejector Handle w/ Hardware for Cards (4 pcs./bag)	—	V1162-ND	11.03	9.70	HA9/4
T-Strut 1" wide for Customizing Card Rack	16.85 (42.80)	V2002-ND	9.56	8.40	TS169
T-Strut 1" wide for Customizing	16.85 (42.80)	V2037-ND	19.75	17.36	TS169-6/90
T-Strut 1" Wide for Customizing Card Rack	20.85 (52.96)	V2005-ND	9.92	8.72	TS209
Hardware Kit for Backplane Connector (42 pcs./total)	—	V2006-ND	14.60	12.84	HD34
Nut 4-40 Square Head for T-Strut (25 pcs./bag)	—	V2007-ND	7.72	6.79	NT4-7PA
Rear Extrusion for Card Racks (for use with side panel)	17.00 (43.18)	V2024-ND	19.87	17.48	5250238-84
Side Panel for Card Racks 9" High	—	V2035-ND	29.81	26.21	SW52P89/90
Flat Head Screw 4-40 THD for T-Struts (25 pcs./bag)	.25 (.64)	V2004-ND	6.44	5.67	SC4-27/25
Bracket Kit for T-Struts	—	V2000-ND	12.19	10.72	BR16A
Front Panel for Card Rack 6U Vertical	64.00 (162.56)	V2028-ND	27.19	23.91	FP04-6U
Front Panel for Boards with Cutouts	14.00 (35.56)	V2029-ND	11.48	10.10	FP52B4HP-1
Front Panel DIN Eject (no center holes) with Hardware	—	V2030-ND	24.26	21.33	FPE04-6UB
Aluminum Frame-Loc Rails™ 2" Wide for PCBs	—	V2034-ND	8.70	7.65	SR2-97A2
Plastic Screw Mount Card Guide (Pkg. of 12)	2.89 (7.34)	V1151-ND	29.48	25.92	CG2-45P
Plastic Screw Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1153-ND	27.68	24.34	CG2-65P
Plastic Screw Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1156-ND	28.16	24.76	CG2-80P
Plastic Screw Mount Card Guide (Pkg. of 12)	8.14 (20.68)	V1160-ND	28.59	25.14	CG2-95P
Nylon Snap-In Mount Card Guide (Pkg. of 12)	3.17 (8.05)	V1150-ND	17.89	15.73	CG2-45S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1152-ND	15.76	13.86	CG2-65S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1155-ND	23.17	20.37	CG2-80S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	8.43 (21.41)	V1158-ND	20.09	17.67	CG2-95S
Card Guide Kit (Includes Slides and Hardware)	4.50 (11.43)	V2027-ND	10.50	9.24	BR27D

Edgeboard Connectors

Solder Eyelet Type Insulator Material: Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Ryton R10
Wrap Tail Type Insulator Material: Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Polyester (VALOX) UL-94V-0
Contact Material: Phosphor bronze QQ-B-750 or Beryllium copper
Contact Plating: .000010" gold over .000050" nickel
Test Voltage: 650VAC
Rated Current: 3 Amps
Contact Res. Drop: 30 Mv Maximum @ rated current
Insulation Resistance: 5000MΩ, min. @ 500VDC

For 1/16" (1.60mm) Thick P.C. Boards

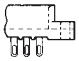

Solder-Eye

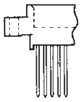

Wire-Wrap

Centers Inch (mm)	No. of Contacts	Termination Type	Mounting Ears	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
.100 (2.54)	72	Wrap Tail	Center	V1061-ND†*	22.82	20.07	17.81	R636-1
.156 (3.96)	44	Solder Eye	Flush	V1062-ND††	18.49	16.26	14.43	R644
.156 (3.96)	44	Wire Wrap	Flush	V1195-ND	13.38	11.76	10.44	R644-3F
.156 (3.96)	44	Wire Wrap	Center	V1196-ND	15.02	13.20	11.72	R644-3C

† Supplied with between-contact polarizing key. * Wrap Tail: 3-level, .025" (.64mm) Square
†† Supplied with between-contact polarizing key and in-contact polarizing key.

VECTOR
ELECTRONICS & TECHNOLOGY, INC

CompactPCI® Card Rack

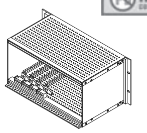

The newest specification for PCI-based computers is CompactPCI. It is electrically a superset of desktop PCI with a different physical form factor. CompactPCI utilizes the Eurocard form factor popularized by the VME bus.

- Card rack for CompactPCI Bus come completely assembled with card guides.
- Standard 6U heights available with 4 or 8 slot card configurations.

Note: Vented top and bottoms are not included.

Description	Dimensions – Inch (cm) Width	Depth	Height	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Card Rack cPCI	19 (48.26)	10 (25.40)	6U	V1178-ND	227.94	200.39	177.85	CCA28-84-00
Card Guides Snap-In Style for Above Rack				V2008-ND	2.06	1.81	1.61	3250-0001-01

VME Card Racks

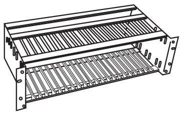

- Vector VME Subracks are designed for 19" systems based on the DIN 41914 standard.
- Card Racks come in either completely assembled (CCA) or kit form (CCK).
- Card Guides are ordered separately.
- Vector backplanes are designed to meet VME bus Spec Rev C1 and Rev D.

Card Size	Rack Size	Height	Guide Mount Method	Material	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Assembled Racks								
3U x 220mm	19" x 11.63"	3U	Snap-In	Nylon	V1214-ND	236.80	208.18	CCA220-3U
Kitted Racks								
3U x 220mm	19" x 11.63"	3U	Snap-In	Nylon	V1218-ND	200.36	176.15	CCK220-3U
Card Guide 160mm Nylon Snap-In Mount, (Package of 12)					V1220-ND	24.26	21.33	CG1-160/12
Card Guide 220mm Nylon Snap-In Mount, (Package of 12)					V1221-ND	28.99	25.49	CG1-220/12

Edgeboard Connectors

96 Pin Din

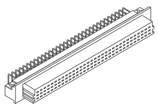

- **Connector Material:** Glass filled polycarbonate
- **Temperature Rating:** -55°C ~ 105°C

Termination Type	Male/ Female	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Right Angle PC Mount	Female	V1233-ND	17.25	15.17	13.47	RE96FSR
Right Angle Wire Wrap	Female	V1250-ND	22.08	19.41	17.23	RE96FWR
Right Angle PC Mount	Male	V1235-ND	12.10	10.64	9.45	RE96MSR-062
Right Angle Wire Wrap	Male	V1243-ND	23.88	21.00	18.64	RE96MWR
Straight Wire Wrap	Female	V1237-ND	13.80	12.13	10.77	RE96FW
Straight Wire Wrap	Male	V1238-ND	15.18	13.35	11.85	RE96MW
Straight PC Mount	Female (AutoBus)	V1239-ND	22.46	19.75	17.53	RE96FABG
Straight PC Mount	Female	V1234-ND	13.61	11.97	10.63	RE96FSD
Straight Press-Fit	Female	V1240-ND	9.19	8.08	7.18	RE96FSP
Straight Press-Fit Wire Wrap	Female	V1241-ND	15.31	13.46	11.95	RE96FWP

Richco®

Tension Card Guides

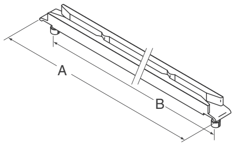

Richcos tension card guides are made to secure printed circuit boards in place vertically or horizontally.

Description	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Qty.	Pricing	Richco Part No.
Card Guide 2.5"	2.500 (63.5)	2.200 (55.9)	RP776-ND	100	55.14	TCG1-2.500-23
Card Guide 3.3"	3.300 (83.8)	3.000 (76.2)	RP777-ND	100	55.20	TCG1-3.300-23
Card Guide 6.675"	6.675 (169.5)	6.375 (161.9)	RP778-ND	500	264.00	TCG1-6.675-23

Twin Industries

NEW! Educational DIY Solder Kits

TW-DIY-5002 — Temperature Meter Kit

This kit shows how much of electronics today can be contained in a single chip, the Intersil 7106. Commercial low cost digital volt meters are nothing more than this kit, some switches and passive components and a nice plastic case.

438-1076-ND **$38.07**

TW-DIY-5024 — Logic Probe Kit

An important piece of equipment for test and measurement of digital equipment. Can be used in fault finding and testing as well as to assist in design work and to find out how digital equipment works. Switch for either TTL or CMOS. Includes detection circuit for very fast pulses. Gives visual (3 LEDs) and audio (piezo buzzer) response.

438-1077-ND **$12.72**

TW-DIY-5029 — Combination Lock Kit

An introduction to a basic but fully working combination lock. Separate touch pad with 9 pads. Lock is reset if an incorrect digit is pressed. Relay is capable of switching 250V. 12V operation.

438-1078-ND **$16.54**

TW-DIY-5052 — Five Ultra Bright LED Flasher Kit

This CMOS VLSI single chip-on-board is designed for electronic toy and warning light applications. Five LED's flash on/off in a pseudo-random or sequential mode depending on whether a switch is open or connected high. Continuous flashing mode or toggle on/off is selectable by another switch. The flash rate is controlled by a trimpot.

438-1079-ND **$12.72**

TW-DIY-5061 — 3 1/2 Digital LED Panel Meter Kit

Kit 61 has been designed as a versatile 3 1/2 digit panel meter. Also in this kit we have used small, monoblock capacitors rather than the much bigger mylar or metallized types. This saves space as well as making the meter look better.

438-1080-ND **$38.07**

TW-DIY-5134 — Introduction to LCDs Kit

Learn how to connect a 2x16 LCD to a PC parallel port. First this kit will show you how to write keystrokes from the PC keyboard to display on the LCD. It will show you how to process this data (rotate the string left and right.) All the code is provided. Second, there is an on-board DS1620 to measure temperature. The temperature is displayed in °F or °C. Just press a button to display either. With the DS1620 you may set breakpoints to turn a thermostat on/off. We provide all the code to do this. Once the DS1620 is programmed it may be removed and placed in another device for temperature control. Many web references are provided.

438-1081-ND **$63.68**

TW-DIY-5141 — Multi-Mode Timer

This kit contains seven different timing modes using only one IC and some support components on a single sided PCB. This is a lot less than many single mode traditional timers. The timing modes and delay ranges are selected by on-board DIP switches. Simply select the time delay you want and that's it - no adjustment required.

438-1082-ND **$38.07**

TW-DIY-5146 — 40 Second Message Recorder with Looping Option Kit

This kit will take any ISD DIP chip from ISD2540 to ISD25120. A switch will loop the first message continuously.

438-1083-ND **$38.07**

TW-DIY-5151 — Programmer for Serial EEPROMs Kit

Serial EEPROMs are finding more and more use in electronic devices these days. These small 8 pin devices offer non-volatile data storage and require minimal I/O lines to connect to them making them ideal in many microcontroller based applications. The programmer connects to the PC parallel port and is controlled by driver software running on the PC.

438-1085-ND **$12.72**

TW-DIY-5180 — Rolling Code 4-Channel UHF Remote Control Kit

This is one very clever remote control. With rolling code, it's close to impossible to electronically crack. With four channels, all either latching or momentary operation, it's extremely versatile. With a sensitive prebuilt receiver, it's long ranch. With up to 16 key ring size transmitters, it's go-anywhere. The kit even includes the key ring.

438-1086-ND **$100.34**

NEW! ABS Plastic Project Box

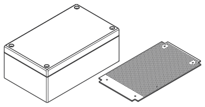

ABS Plastic Project Box with matching protoboard; FR4 0.062"

Description	Digi-Key Part No.	Price Each 1	10	25	Twin Industries Part No.
Non-plated, 4.5" x 2.3" x 1.7"	438-1089-ND◆	13.95	12.40	11.01	B10-7100
Plated, 4.5" x 2.3" x 1.7"	438-1090-ND	15.93	14.16	12.57	B10-8000
Non-plated, 5.3" x 2.9" x 1.9"	438-1091-ND◆	18.90	16.80	14.91	B20-7100
Plated, 5.3" x 2.9" x 1.9"	438-1092-ND	20.88	18.56	16.48	B20-8000
Non-plated, 6.3" x 3.7" x 2.4"	438-1093-ND◆	22.32	19.84	17.61	B30-7100
Plated, 6.3" x 3.7" x 2.4"	438-1094-ND	24.12	21.44	19.03	B30-8000

◆ ***RoHS Compliant***

Twin Industries

Solderless Breadboards

Breadboards are commonly used for prototyping because they allow you to quickly build temporary circuits without soldering. Twin Industries premium quality solderless breadboards have aluminum ground plates for high speed and low noise, and a color coding Letter/ Number labeling scheme to assist in circuit layout and debugging. In addition, there are binding posts for convenient attachment of power sources, or input and output signals.

Dimensions in Inches (mm)

Fig. 1

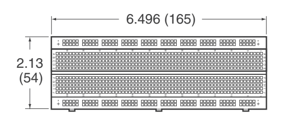

Fig. 2

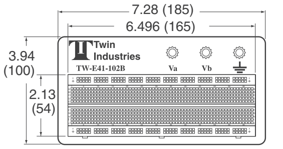

Fig. 3

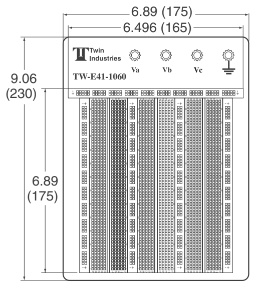

- 70 piece kit contains: 5 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.
- 140 piece kit contains: 10 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Twin Industries Part No.
1	830 Tie-Points	438-1045-ND	8.73	7.99	TW-E40-1020
	830 Tie-Points with 70 pieces, Wire Kit	438-1046-ND	13.44	12.29	TW-E41-1020
2	830 Tie-Points with 70 pieces, Wire Kit and Binding Post	438-1047-ND	19.74	18.05	TW-E41-102B
3	2390 Tie-Points with 140 pieces, Wire kit and Binding Post	438-1048-ND	37.45	34.24	TW-E41-1060
—	140 pieces, Wire Kit	438-1049-ND	9.98	7.99	TW-E012-000
	Machine Pin Jumper Wires 5cm	438-1073-ND ***NEW!***	7.26	6.39	TW-MP-5
	Machine Pin Jumper Wires 10cm	438-1074-ND ***NEW!***	7.63	6.71	TW-MP-10
	Machine Pin Jumper Wires 20cm	438-1075-ND ***NEW!***	7.99	7.03	TW-MP-20

SMT Adapter Boards

Surface mount components are soldered to pads on boards. Traces extend from pads to prototyping holes on standard 0.1" x 0.1" (2.54mm x 2.54mm) grid. Individual leads can be monitored or other components can be added to evaluate performance of surface mount product. Saves time and prototyping cost.

All boards made with FR4 laminate, and featuring ground plane on back side. Pad to pad spacing (pitch) is measured in mils (thousandths of inch).

PLCC

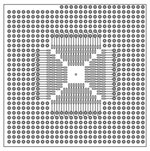

SOIC

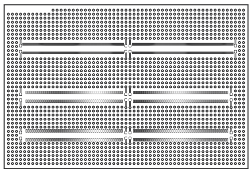

QFP44-100

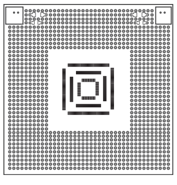

QFP100,128

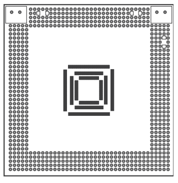

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Twin Industries Part No.
PLCC 20, 28, 44, 64, 84	438-1031-ND	50.51	44.40	8100-SMT3
SOIC Medium, Wide, Plastic, (50 mil pitch)	438-1014-ND	21.84	19.20	8100-SMT4
SOIC Medium, Tiny, Metric, (25 mil/50mil pitch)	438-1017-ND	41.86	36.80	8100-SMT8
SOIC Medium, Tiny, Metric, (25 mil/50mil pitch)	438-1057-ND◆	43.95	38.64	8100-SMT8-LF
QFP 44-100, 160, (25 mil pitch)	438-1015-ND	29.12	25.60	8100-SMT6
QFP 80 (20 mil pitch) 6" x 4" Board	438-1033-ND	40.04	35.20	8100-SMT11
QFP 100, 128, 144, 208, 240, (20 mil pitch)	438-1016-ND	41.86	36.80	8100-SMT7
TSOP 40, 48, 56, (20 mil pitch); PSOP 44 (50 mil pitch); SSOP 56 (30 mil pitch)	438-1018-ND	69.16	60.80	8100-SMT9
TSSOP (20 mil pitch) 6" x 4" Board	438-1032-ND	40.04	35.20	8100-SMT10
TSSOP (20 mil pitch) 6" x 4" Board	438-1058-ND◆	42.04	36.96	8100-SMT10-LF
TQFP 64 (20 mil pitch) 6" x 4" Board	438-1054-ND	40.04	35.20	8100-SMT14

◆ ***RoHS Compliant***

General Purpose Prototyping Boards

High quality prototyping boards for use in hardware development, rapid prototyping, and wire wrapping projects.

Features:
- FR4 glass epoxy material, 0.062" thick
- High temp laminate for lead free boards
- Grid holes spaced on 0.1" x 0.1" (2.54mm x 2.54mm) centers
- Hole size .042" (.035" plated)
- PTH = Plated Thru Hole
- NP = Non-Plated

Operating Temperature:
Standard: 140°C; Lead Free: 170°C

Fig. 1

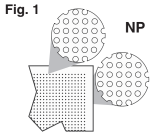

Fig. 2

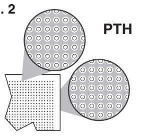

Fig. 3

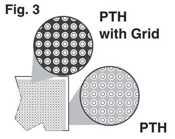

Fig. 4

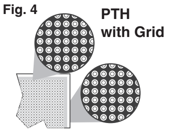

Description – Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Twin Industries Part No.
Fig. 1 - 7100 Series — Unclad (No Copper) — RoHS Compliant				
4 x 5 (101.6 x 127)	438-1019-ND	4.73	4.16	7100-45
4.5 x 6.5 (114.3 x 165)	438-1037-ND	8.37	7.36	7100-4565
4.5 x 6.5 (114.3 x 165) .062" Holes	438-1034-ND	8.37	7.36	7100-062-4565
4.5 x 8.5 (114.3 x 216) .062" Holes	438-1035-ND	12.65	11.12	7100-062-4585
4 x 10 (101.6 x 254)	438-1036-ND	10.10	8.88	7100-410
10 x 10 (254 x 254)	438-1020-ND	23.66	20.80	7100-1010
10 x 20 (254 x 508)	438-1021-ND	45.50	40.00	7100-1020
Fig. 2 - 8000 Series — Plated Thru Hole, Double Sided				
4 x 5 (101.6 x 127)	438-1022-ND	13.78	12.12	8000-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1051-ND◆	14.47	12.72	8000-45-LF
4.5 x 6.5 (114.3 x 165)	438-1040-ND	21.84	19.20	8000-4565
4.5 x 6.5 (114.3 x 165)	438-1060-ND◆	22.93	20.16	8000-4565-LF
6.3 x 3.9 (160 x 100) 2mm Pitch	438-1038-ND	25.21	22.16	8000-2MM-3U
4 x 10 (101.6 x 254)	438-1039-ND	26.39	23.20	8000-410
4 x 10 (101.6 x 254) Gold Plating Over Copper	438-1050-ND◆	27.76	24.40	8000-410-LF
10 x 10 (254 x 254)	438-1023-ND	61.88	54.40	8000-1010
10 x 10 (254 x 254)	438-1059-ND◆	64.97	57.12	8000-1010-LF
10 x 20 (254 x 508)	438-1024-ND	116.48	102.40	8000-1020
Fig. 3 - 8100 Series — Plated Thru Hole, GND Plane				
4 x 5 (101.6 x 127)	438-1025-ND	13.78	12.12	8100-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1052-ND◆	14.47	12.72	8100-45-LF
4.5 x 6.5 (114.3 x 165)	438-1042-ND	21.84	19.20	8100-4565
4 x 10 (101.6 x 254)	438-1041-ND	26.39	23.20	8100-410
10 x 10 (254 x 254)	438-1026-ND	61.88	54.40	8100-1010
Fig. 4 - 8200 Series — Plated Thru Hole, Two GND Plane				
4 x 5 (101.6 x 127)	438-1028-ND	13.78	12.12	8200-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1053-ND◆	14.47	12.72	8200-45-LF
4.5 x 6.5 (114.3 x 165)	438-1044-ND	21.84	19.20	8200-4565
4 x 10 (101.6 x 254)	438-1043-ND	26.39	23.20	8200-410
10 x 10 (254 x 254)	438-1029-ND	61.88	54.40	8200-1010
NEW! General Purpose Prototyping Boards NEW!				
4 x 3.5 (101.6 x 88.9) .028" Holes	438-1096-ND	32.36	28.77	7036-50
8 x 8 (203.2 x 203.2) .035" Holes	438-1097-ND	67.03	59.59	7050-100

◆ ***RoHS Compliant***

Extender Cards

Bus extender cards allow units under test (UUT) to be developed in functioning systems. The extenders allow access to the UUT and prevent damage to test systems from repeated removals and insertions. Models with test point allow monitoring of signal activity.

Fig. 1

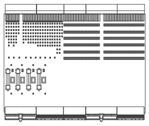

Fig. 2

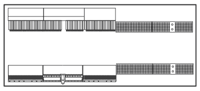

Fig. 3

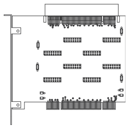

Fig. 4

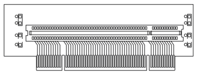

Fig. 5

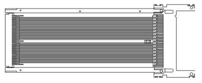

Fig. 6

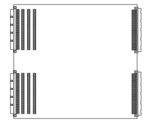

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Twin Industries Part No.
—	CompactPCI 3U (J1-2)	438-1072-ND	85.14	80.13	2000-50
	CompactPCI 6U x 80mm Rear I/O (J1-5)	438-1071-ND	109.19	102.77	2000-80
	CompactPCI 6U	438-1070-ND	168.30	158.40	2000-200
	CompactPCI 3U with Test Points 160mm x 3U	438-1055-ND◆	273.00	263.90	2000-EXTM-LF
1	CompactPCI 6U with Test Points 160mm x 6U	438-1056-ND◆	387.60	364.80	2000-6U-EXTM-LF
—	CompactPCI 6U x 80mm	438-1003-ND	450.00	435.00	2000-6U-80EX
2	CompactPCI 6U x 80mm Rear I/O (J3-5)	438-1068-ND◆	417.90	403.97	2000-6U-80EX-REAR-LF
—	CompactPCI 3U Extender Card	438-1064-ND◆ ***NEW!***	252.00	224.00	2000-3U-80EX-LF
3	PCI, 64-Bit, 4 Layer with Test Points (3.3V or 5V)	438-1066-ND◆	132.60	124.80	7564-UEXTM-LF
	PCI, 32-Bit, 2 Layer	438-1099-ND◆ ***NEW!***	90.14	80.13	7586-EXT-LF
	PCI, 32-Bit, 4 Layer with Test Points	438-1067-ND◆ ***NEW!***	171.00	152.00	7586-5EXTM-LF
4	PCI, 32-Bit, Right Angle Riser Card	438-1062-ND◆	51.00	48.00	7586-RAEXTM-LF
	PCI, 32-Bit, Left Angle Riser Card	438-1061-ND◆	51.00	48.00	7586-LAEXTM-LF
—	PCI, 32-Bit Prototyping Board	438-1098-ND ***NEW!***	78.59	69.86	7586-5100
5	PCMCIA, 4 Layer, 2.13" x 6.35" (54mm x 161mm)	438-1065-ND◆	132.40	124.61	3300-EXTM-LF
	PCMCIA, 2 Layer	438-1095-ND◆ ***NEW!***	117.00	104.00	3300-EXT-LF
6	VME with Test Points for all Signals	438-1063-ND◆	183.60	172.80	8196-6U-EXT-LF
—	PMC Card Extender (J/P 1-4)	438-1069-ND◆	473.62	445.76	2500-EXTM-LF
	6U VME/VME64X Prototyping Board 8.7" x 2.4"	438-1087-ND◆ ***NEW!***	180.18	158.40	8198-200
	Extender Card ISA	438-1088-ND◆ ***NEW!***	171.23	150.40	7098-EXT-LF

◆ ***RoHS Compliant***

INJECTORALL
Electronics Corp.

Positive Coated Sensitized Copper Clad Boards

Make your own professional looking prototype boards with trace widths as narrow as .005" (.13mm). All boards are FR4 material and come packaged individually in a black bag with blue header.

CAUTION: Do not open in direct sunlight, open in darkroom environment only.

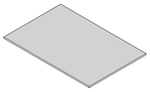

Coated Copper Clad PC Board

Developer and etchant solution available from Injectorall.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC17P-ND	5.62	PC17P
4 x 6 (10.16 x 15.24)	PC18P-ND	9.00	PC18P
4.5 x 7 (11.43 x 17.78)	PC18P-C-ND	10.30	PC18P-C
6 x 6 (15.24 x 15.24)	PC18P-S-ND	11.32	PC18P-S
6 x 9 (15.24 x 22.86)	PC19P-ND	16.84	PC19P
12 x 12 (30.48 x 30.48)	PC19P-T-ND	39.74	PC19P-T
12 x 18 (30.48 x 45.72)	PC19AP-ND	59.58	PC19AP
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9P-ND	7.46	PC9P
4 x 6 (10.16 x 15.24)	PC10P-ND	12.42	PC10P
6 x 9 (15.24 x 22.86)	PC11P-ND	26.39	PC11P
12 x 12 (30.48 x 30.48)	PC11P-T-ND	62.11	PC11P-T
Double Sided			
1/16" (1.59mm) Thick, 1/2 oz Copper			
12 x 18 (30.48 x 45.72)	PC77P-ND	98.17	PC77P
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40P-ND	8.01	PC40P
4 x 6 (10.16 x 15.24)	PC41P-ND	13.18	PC41P
4.5 x 7 (11.43 x 17.78)	PC41P-C-ND	14.69	PC41P-C
6 x 6 (15.24 x 15.24)	PC41P-S-ND	15.82	PC41P-S
6 x 9 (15.24 x 22.86)	PC42P-ND	21.67	PC42P
12 x 12 (30.48 x 30.48)	PC42P-T-ND	57.81	PC42P-T
Single Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55P-ND	4.84	PC55P
4 x 6 (10.16 x 15.24)	PC56P-ND	8.13	PC56P
4.5 x 7 (11.43 x 17.78)	PC56P-C-ND	9.67	PC56P-C

Positive PC Board Accessory

The UV exposure lamp is a 15W lamp for exposing the presensitized board. Intended to be used with your fluorescent 18" bi-pin fixture.

Description	Digi-Key Part No.	Price Each	Injectorall Part No.
18" Fluorescent Exposure Lamp, Bi-Pin	PC557F- ND	23.98	PC557F

Unclad PC Boards

Unclad (no copper) pc boards made of FR4 fiberglass material. Ideal for isolation of point-to-point wiring and wire wrapping applications.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
1/32" (.79mm) Thick			
6 x 9 (15.24 x 22.86)	PC57-UNCLAD-ND	7.37	PC57-UNCLAD
12 x 18 (30.48 x 45.72)	PC58-UNCLAD-ND	26.61	PC58-UNCLAD
1/16" (1.59mm) Thick			
3 x 4.5 (7.62 x 11.43)	PC5-UNCLAD-ND	3.42	PC5-UNCLAD
4 x 6 (10.16 x 15.24)	PC6-UNCLAD-ND	5.29	PC6-UNCLAD
6 x 9 (15.24 x 22.86)	PC7-UNCLAD-ND	10.20	PC7-UNCLAD
12 x 18 (30.48 x 45.72)	PC8-UNCLAD-ND	27.20	PC8-UNCLAD

Drilled Copper Clad Breadboards

Double sided copper clad boards with drilled holes on .1" centers. Hole diameter of .042" fits most components. Perfect for use with pad cutting tool to customize your circuits. 1/16" thick board.

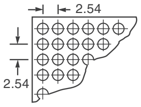

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
3 x 4.5 (7.62 x 11.43)	B3426D-ND	10.27	B3426D
4 x 6 (10.16 x 15.24)	B3427D-ND	15.23	B3427D
5.75 x 8.5 (14.60 x 21.59)	B3428D-ND	25.86	B3428D
5.75 x 17 (14.60 x 43.18)	B3429D-ND	43.08	B3429D
11.5 x 17 (29.21 x 43.18)	B3429AD-ND	79.35	B3429AD

Uncoated Copper Clad Boards

All boards are made from FR4 material. 1/2 oz. copper is ideal for shorter etching times and very fine trace lines. Use 2 oz. and thicker for higher current applications and heatsinking. 1/16 inch thick boards are standard with thinner boards offering board flexibility and reduced weight.

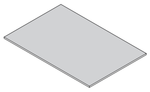

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC5-ND	3.53	PC5
4 x 6 (10.16 x 15.24)	PC6-ND	5.51	PC6
4.5 x 7 (11.43 x 17.78)	PC6-C-ND	6.16	PC6-C
6 x 6 (15.24 x 15.24)	PC6-S-ND	6.64	PC6-S
6 x 9 (15.24 x 22.86)	PC7-ND	9.50	PC7
12 x 12 (30.48 x 30.48)	PC7-T-ND	19.37	PC7-T
12 x 18 (30.48 x 45.72)	PC8-ND	29.92	PC8
18 x 18 (45.72 x 45.72)	PC8-E-ND	42.91	PC8-E
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9-ND	4.76	PC9
4 x 6 (10.16 x 15.24)	PC10-ND	7.61	PC10
4.5 x 7 (11.43 x 17.78)	PC10-C-ND	8.99	PC10-C
6 x 6 (15.24 x 15.24)	PC10-S-ND	10.28	PC10-S
6 x 9 (15.24 x 22.86)	PC11-ND	15.41	PC11
12 x 12 (30.48 x 30.48)	PC11-T-ND	29.04	PC11-T
12 x 18 (30.48 x 45.72)	PC12-ND	43.53	PC12
18 x 18 (45.72 x 45.72)	PC12-E-ND	55.74	PC12-E
Double Sided			
1/16" (1.59mm) Thick, 1/2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC74-ND	4.84	PC74
4 x 6 (10.16 x 15.24)	PC75-ND	7.65	PC75
6 x 6 (15.24 x 15.24)	PC75-S-ND	10.23	PC75-S
6 x 9 (15.24 x 22.86)	PC76-ND	16.24	PC76
12 x 12 (30.48 x 30.48)	PC76-T-ND	27.58	PC76-T
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40-ND	4.36	PC40
4 x 6 (10.16 x 15.24)	PC41-ND	6.87	PC41
6 x 6 (15.24 x 15.24)	PC41-S-ND	7.66	PC41-S
6 x 9 (15.24 x 22.86)	PC42-ND	11.47	PC42
12 x 12 (30.48 x 30.48)	PC42-T-ND	21.94	PC42-T
12 x 18 (30.48 x 45.72)	PC43-ND	32.89	PC43
18 x 18 (45.72 x 45.72)	PC43-E-ND	49.28	PC43-E
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC51-ND	5.29	PC51
4 x 6 (10.16 x 15.24)	PC52-ND	8.45	PC52
6 x 9 (15.24 x 22.86)	PC53-ND	17.14	PC53
12 x 12 (30.48 x 30.48)	PC53-T-ND	32.27	PC53-T
12 x 18 (30.48 x 45.72)	PC54-ND	48.38	PC54
Single Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55-ND	2.66	PC55
4 x 6 (10.16 x 15.24)	PC56-ND	4.94	PC56
6 x 9 (15.24 x 22.86)	PC57-ND	8.79	PC57
12 x 12 (30.48 x 30.48)	PC57-T-ND	17.67	PC57-T
Double Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC44-ND	4.34	PC44
4 x 6 (10.16 x 15.24)	PC45-ND	6.12	PC45
6 x 9 (15.24 x 22.86)	PC46-ND	10.58	PC46
12 x 12 (30.48 x 30.48)	PC46-T-ND	22.69	PC46-T
12 x 18 (30.48 x 45.72)	PC47-ND	34.06	PC47
Single Sided			
.014" (.036mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC94-ND	2.66	PC94
6 x 9 (15.24 x 22.86)	PC96-ND	8.83	PC96
12 x 18 (30.48 x 45.72)	PC97-ND	26.50	PC97

3M

Terminal and Distribution Strips

Fig. 1

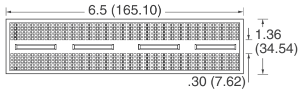

Fig. 2

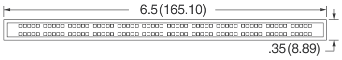

Fig. 3

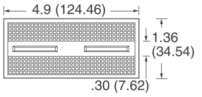

Fig. 4

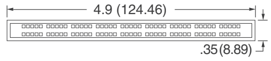

Fig. 5

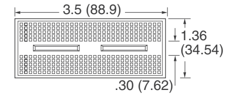

Fig. 6

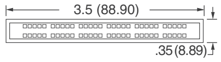

Fig. 7

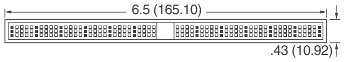

Fig. 8

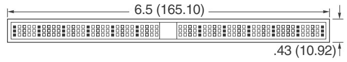

Fig. 9

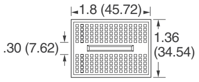

Fig.	Description	Digi-Key Part No.	Price Each
1	Terminal Strip, 128 five-tie-point terminals	923261-ND	22.02
2	Distribution Strip, 24 four-tie-point terminals	923277-ND	8.94
3	Terminal Strip, 96 five-tie-point terminals	923265-ND	18.20
4	Distribution Strip, 18 four-tie-point terminals	923281-ND	8.54
5	Terminal Strip, 68 five-tie-point terminals	923269-ND	14.27
6	Distribution Strip, 24 four-tie-point terminals	923285-ND	24.65
7	Terminal Strip, 54 four-tie-point terminals w/solder tails, viny backed, mounting screws provided	923292-ND	16.64
8	Distribution Strip, 36 four-tie point terminals	923293-ND	10.69
9	Terminal Strip, 34 five-tie-point terminals	923273-ND	9.57

Uncoated Copper Clad Boards

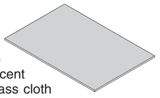

We offer 1/16", 1/32" and 1/64" FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1000-ND	4.42
1/16"	4" x 6"	1oz.	473-1001-ND	5.44
1/16"	6" x 6"	1oz.	473-1002-ND	6.38
1/16"	6" x 9"	1oz.	473-1003-ND	9.06
1/16"	8" x 10"	1oz.	473-1004-ND	12.46
1/16"	12" x 12"	1oz.	473-1005-ND	16.27
1/32"	4" x 6"	1oz.	473-1008-ND	5.68
1/32"	6" x 9"	1oz.	473-1009-ND	9.48
1/32"	12" x 12"	1oz.	473-1026-ND	16.68
Double Sided				
1/16"	6" x 6"	1oz.	473-1006-ND	7.24
1/16"	8" x 10"	1oz.	473-1090-ND ***NEW!***	5.28
1/16"	12" x 12"	1oz.	473-1007-ND	18.50
1/32"	4" x 6"	1oz.	473-1010-ND	5.91
1/32"	6" x 9"	1oz.	473-1011-ND	8.82
1/32"	12" x 12"	1oz.	473-1027-ND	19.07

Positive Coated Presensitized Boards

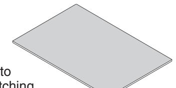

Our presensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching. We also offer a large thin (12" x 18" x 1/32 inch) cat#675 paper phenolic presensitized board (Easy Cutting!!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1014-ND	8.84
1/16"	4" x 6"	1oz.	473-1015-ND	9.48
1/16"	6" x 6"	1oz.	473-1016-ND	9.62
1/16"	6" x 9"	1oz.	473-1017-ND	14.18
1/32"	4" x 6"	1oz.	473-1020-ND	8.65
1/32"	6" x 9"	1oz.	473-1021-ND	14.18
Paper Phenolic Single Sided				
1/32"	12" x 18"	1oz.	473-1018-ND	30.69
Double Sided				
1/16"	6" x 6"	1oz.	473-1023-ND	13.26
1/16"	6" x 9"	1oz.	473-1024-ND	18.16
1/32"	6" x 9"	1oz.	473-1025-ND	18.16
1/64"	6" x 9"	1oz.	473-1022-ND	18.16

Exposure Kit

Convenient kit required to "expose" presensitized copper-clad boards. Includes exposure tube, clear-acrylic weight for artwork, fluorescent-light fixture with stand and complete instructions.

473-1030-ND PCB Photo Exposure Kit - 115VAC **$55.94**

Economical Etching System

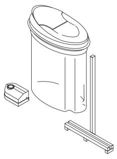

Ideal for students and hobbyists. An inexpensive etching solution.

- 5 liter heavy duty polyethylene etching tank
- Air pump and tubing
- Sparging unit
- Bag of vinyl gloves
- Complete instructions

473-1029-ND Economical Etching System.................. **$55.94**

NEW! Lead Free Solders

Now offering a choice between Sn96 and Sn99 - the two most commonly used Lead Free Solders in the industry.

Description	Digi-Key Part No.	Price Each
Sn96 1/4lb. Spool, 21 AWG	473-1102-ND	18.97
Sn96 1lb. Spool, 21 AWG	473-1103-ND	57.18
Sn99 1/4lb. Spool, 21 AWG	473-1100-ND	12.24
Sn99 1lb. Spool, 21 AWG	473-1101-ND	43.95
Lead-Free Solder Tip Tinner, 1oz.	473-1099-ND	9.04

Etching Copper Clad Circuits

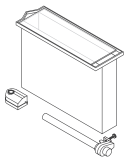

- 7 liter heavy duty polyethylene etching tank
- Sturdy mounting bracket
- Clear acrylic lid
- Heavy duty air pump
- Three way adjustable airline manifold
- Triple line sparging unit
- 200 watt "Over the Side" immersion heater with quartz element, preset/adjustable temperature control
- Adhesive digital thermometer
- Bag of vinyl gloves
- Complete instructions

Description	Digi-Key Part No.	Price Each
Kit Etching PCB with Heater and Pump	473-1028-ND	222.00
Transparency Film (5 sheets), 8" x 11.5"	473-1038-ND	9.04
Foam Brush for etchant or developer	473-1040-ND	2.60
Latex Disposable Gloves (10 pr gloves)	473-1041-ND	7.56

Desoldering Braid

Super Wick™

RMA type flux, Come on static dissipative spools on all sizes. No Clean Wick (NS) offers Halide free residue that is non-corrosive and does not require cleaning.

Length Feet	Width Inches	Color	Digi-Key Part No.	Price Each
Fine Braid RMA Flux				
5	0.025	#1 White (SMT)	473-1060-ND	2.82
5	0.050	#2 Yellow	473-1061-ND	2.82
5	0.075	#3 Green	473-1062-ND	2.94
5	0.100	#4 Blue	473-1063-ND	3.18
5	0.125	#5 Brown	473-1064-ND	3.54
25	0.050	#2 Yellow	473-1065-ND	11.32
25	0.075	#3 Green	473-1066-ND	11.32
25	0.100	#4 Blue	473-1067-ND	12.46
50	0.050	#2 Yellow	473-1069-ND	22.71
50	0.075	#3 Green	473-1070-ND	22.71
50	0.100	#4 Blue	473-1071-ND	23.85
100	0.050	#2 Yellow	473-1072-ND	44.35
100	0.075	#3 Green	473-1073-ND	44.35
100	0.100	#4 Blue	473-1074-ND	46.63
Fine Braid No Clean				
5	0.050	#2 Yellow	473-1075-ND	3.18
5	0.075	#3 Green	473-1076-ND	3.30
5	0.100	#4 Blue	473-1077-ND	3.54
50	0.075	#3 Green	473-1078-ND	26.13

Prototyping Maintenance / Repair Pens

Convenient micro tip pen allows for delicate spot repair and maintenance on circuit boards. Choose from a wide range of pens.

Description	Digi-Key Part No.	Price Each
Etch Resistant Trace Pen	473-1032-ND	8.84
Rosin Flux Pen	473-1033-ND	8.21
Conductive Silver Trace Pen	473-1035-ND	24.99
Green Overcoat Pen (Acrylic)	473-1036-ND	10.18
Silicone Conformal Coating Pen	473-1037-ND	11.32

NEW! Thermal Grease and Compounds

Description	Digi-Key Part No.	Price Each
Super Thermal Grease, 3.5g Syringe	473-1096-ND	13.36
Silicone Heat Transfer Compound, 5oz. Tube	473-1097-ND	18.16
Non-Silicone Heat Transfer Compound, 2oz. Tube	473-1098-ND	10.76

Potting and Encapsulating Compound

2 Part Kit

Provides excellent protection from impact, shock, moisture, abuse, chemicals, and analysis. Provides technology security. Excellent for explosion proof components.

Features: • Non-conductive, an electrical insulator • Non-porous • Water and chemical resistant • Provides excellent technology security, extremely difficult to remove once cured • Excellent machining properties • Suitable for explosion proof components, spark arresting • Low toxicity • Easy and simple to mix • Long pot life • Can be cured in one hour at 65°C (150°F)

Description	Digi-Key Part No.	Price Each	MG Part No.
Standard Black Compound, 375 ml	473-1082-ND	36.38	832B-375ML
Standard Black Compound, 3 Liter	473-1095-ND ***NEW!***	162.00	832B-3L
Standard Clear Opaque Compound, 375 ml	473-1083-ND	35.24	832C-375ML
Standard Water Clear Compound, 350 ml	473-1091-ND ***NEW!***	45.49	8321C-320ML
Standard Water Clear Compound, 3 Liter	473-1092-ND ***NEW!***	165.60	8321C-4L
Flame Retardant Compound, 375 ml	473-1093-ND ***NEW!***	45.49	833FRB-375ML
Flame Retardant Compound, 3 Liter	473-1094-ND ***NEW!***	210.00	833FRB-3L
Thermally Conductive Compound, 450 ml	473-1089-ND	45.48	832TC-450ML
High Temperature Compound, 375 ml	473-1085-ND	45.49	832HT-375ML

Cleaning Wipes

Description	Digi-Key Part No.	Price Each	MG Part No.
Presaturated Alcohol Wipes - 75 wipes	473-1081-ND	10.18	8241-T
LCD Cleaning Wipe 25 per box	473-1086-ND	10.76	8242-WX25

Brushes

Abrasive Brushes: Excellent utility brush. Great for cutting corrosion and removing oxides from connector ends. Also great for cleaning soldering iron tips. Burnish contacts without removing base metals. An excellent gold contact cleaner.
Non Abrasive Brushes: Excellent for removing flux and general cleanup. Can be used dry or wet. Works well with sticky or crusty materials.
Technical Cleaning Brushes: Works well for dusting, cleaning with fluids and general cleanup. Excellent for removing flux.

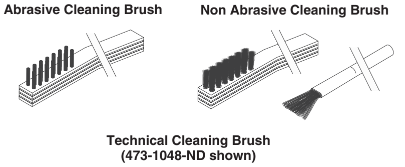

Description	Digi-Key Part No.	Price Each
Abrasive Cleaning Brushes		
Stainless Steel, Brush Face 1 3/8" x 7/16"	473-1043-ND	9.48
Brass, Brush Face 1 3/8" x 7/16"	473-1044-ND	9.48
Non Abrasive Cleaning Brushes		
Hog Hair, Brush Face 1 3/8" x 7/16"	473-1045-ND	6.29
Hog Hair, Brush Face 2 1/4" x 1"	473-1046-ND	13.60
Horse Hair, Brush Face 1 3/8" x 7/16"	473-1047-ND	5.96
Technical Cleaning Brushes		
Horse Hair (5 pcs.), Brush Face 1/4" x 3/8"	473-1048-ND	3.94
Double Ended Horse Hair, Brush Face 1/4" x 5/16"	473-1049-ND	10.18
Wooden Chisel Hog Hair, Brush Face 3/4" x 5/16"	473-1050-ND	9.48

Swabs

Double Headed Cotton Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

Tapered Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

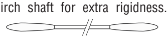

Foam Over Cotton Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

Antistatic Foam Over Cotton Swab: Antistatic, shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

General Foam Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity. Bonded securely to a 6" birch shaft.

Rectangular Foam Swab: Large foam head bonded to sturdy handle for aggressive cleaning applications.

Description	Digi-Key Part No.	Price Each
Double Headed Cotton		
100 Swabs per package	473-1051-ND	4.62
Tapered		
Double Headed, 100 Swabs per package	473-1052-ND	4.62
Foam Over Cotton		
Single Headed, 10 Swabs per package	473-1053-ND	8.21
Single Headed, 50 Swabs per package	473-1054-ND	20.43
Antistatic Foam Over Cotton		
10 Swabs per package	473-1055-ND	8.84
General Foam		
Single Headed, 50 Swabs per package	473-1057-ND	18.16
Rectangular Foam		
50 Swabs per package	473-1059-ND	20.43

PCB Fabrication Starter Kit and “Combo” Crossover Kit

The PCB “Fab-In-A-Box” Starter Kit makes it easy to fabricate single and double sided printed circuit boards. *GBC® Laminator is not included in these kits.*

Starter Kit Includes: • 20 Sheets TTS paper • 2 - 8” x 10” x .032” Single Sided PCBs • 2 - 8” x 10” x .032” Double Sided PCBs • Green TRF • White TRF • Sample Images

Fabricate single and double sided PCBs and create custom enclosure graphics with the “Combo” Crossover Kit.

Combo Kit Includes: • 20 Sheets TTS paper • 19 Foil Samples (8” x 36”) • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8” x 15’) • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 2 - 8” x 10” x .032” Single Sided PCBs • 2 - 8” x 10” x .032” Double Sided PCBs • Green TRF • White TRF

182-1027-ND	PCB Fabrication Starter Kit for PCBs	**$74.95**
182-1028-ND	PCB Fabrication and DecalPRO “Combo” Kit for PCBs	**$149.95**

DecalPRO® Starter Kit

Make custom white, metallic and full color decals with the DecalPRO Kit. Ideal for “1-up” and prototyping projects. *Kit does not include laminator.*

Kit Includes: • 20 Sheets of TTS paper • 19 Foil Samples (8” x 36”) • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8” x 15’) • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 4-page “Quick-Start” Instructions

182-1026-ND	DecalPRO Starter Kit for Dry-Transfer Text Graphics	**$89.95**

Toner Transfer System

Make instant circuit boards using any laser printer or photocopier!

Simple 3-Step Process:

1. Print circuit layout directly to TTS paper
2. Iron the image to copper-clad board
*3. Soak in water to remove paper; **now ready to etch!***

NO DARKROOM!
NO NEGATIVES!
NO CHEMICALS!
NO LOST TIME!

- Detailed instructions included for making single and double sided PCBs
- Also shows how to make custom full color decals for any application
- Sheet size: 8-1/2” x 11” (21.59cm x 27.94cm)

182-1031-ND	***NEW!*** Economy Laminator .032” PCBs for PCB Fabrication	**$114.70**
182-1003-ND	TTS Paper Packet (10 Sheets)	**$13.80**

Printed Circuit Boards

2 Pack, Copper Clad, 1/2 oz. Copper

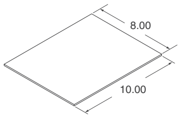

182-1017-ND	PCB Single Sided, .032", "8x10", 1/2 oz., 2 Panels	**$18.60**
182-1018-ND	PCB Double Sided, .032", "8x10", 1/2 oz., 2 Panels	**$19.99**

Toner Foils “Green TRF”

Simple 4-Step Process:

1. Transfer image to copper surface using the TTS paper
2. Iron on the Green TRF film
3. Pour 2 ounces Ferric Chloride into tray
4. Using an etchant soaked sponge, rub away the unwanted copper. (Disposable gloves required)

• Works in conjunction with TTS paper • Completely seals the toner • ZERO pitting • Able to use heavier copper boards • Size: 8” Wide x 15’

182-1021-ND	**$8.95**

Toner Foils “White TRF”

Use the White TRF for adding “silkscreen” artwork to your board! Place the white TRF paper over exposed toner “silkscreen” and apply heat to transfer the white pigment onto the toner, which is fused to the PCB. Perfect for finishing prototype boards and giving them a professionally silkscreened appearance. • Size: 8” Wide x 15’

182-1022-ND	**$8.95**

Drill Bits

Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	Injectorall Part No.
		High Speed Steel		
.062” (1.57)	PC300-52-ND	1.46	1.28	PC300-52
.052” (1.32)	PC300-55-ND	1.62	1.42	PC300-55
.040” (1.02)	PC300-60-ND	1.62	1.42	PC300-60
.033” (.84)	PC300-66-ND	1.84	1.61	PC300-66
.029” (.74)	PC300-69-ND	2.07	1.81	PC300-69
.021” (.53)	PC300-75-ND	2.07	1.81	PC300-75
.0135” (.34)	PC300-80-ND	2.07	1.81	PC300-80
		Carbide – All carbide bits have 1/8” (3.18mm) shank		
.062” (1.57)	PC300C-52-ND	10.52	9.21	PC300C-52
.052” (1.32)	PC300C-55-ND	8.56	7.49	PC300C-55
.040” (1.02)	PC300C-60-ND	8.56	7.49	PC300C-60
.033” (.84)	PC300C-66-ND	8.56	7.49	PC300C-66
.031” (.79)	PC300C-68-ND	8.56	7.49	PC300C-68
.029” (.74)	PC300C-69-ND	8.56	7.49	PC300C-69
.021” (.53)	PC300C-75-ND	13.63	11.93	PC300C-75
.0135” (.34)	PC300C-80-ND	13.63	11.93	PC300C-80

Specialty Prototyping Boards

Fig. 1

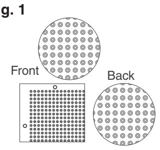

Fig. 2

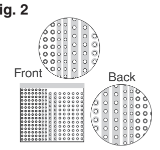

Fig. 3

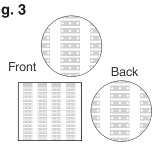

Fig. 4

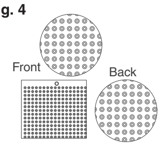

Fig. 5

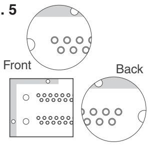

Fig. 6

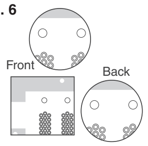

Material: FR-4

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25
1	Prototype Board, 2mm Grid, Pad-Per-Hole with J1 Connector, .025” holes plated thru	3.94” x 6.3” x .062”	V1253-ND	28.77	25.30	22.46
2	Combo Board, 2mm/.100” Grid, Pad-Per-Hole with J1, .025” and .042” holes plated thru	3.94” x 6.3” x .062”	V1254-ND	33.38	29.35	26.05
3	Prototype Board, 2mm Grid, Three Hole Solder Pads, .025” holes plated thru	3.94” x 6.3” x .062”	V1255-ND	20.15	17.72	15.72
4	Combo Board, 2mm/.100”/.050” Pad-Per-Hole 3-Grid Combo, .025” & 0.42” holes plated thru	3.94” x 6.3” x .062”	V1256-ND	20.15	17.72	15.72
5	Prototype Board, Standard Density 25, 15, 9 Pin, D-Sub, 0.39” Diameter Holes	3.94” x 6.3” x .062”	V1251-ND	23.00	20.23	17.95
6	Prototype Board, High Density 15, 26, 44, 62, 78, and 104 Pin, D-Sub, 0.39” Diameter Holes	9.19” x 6.3” x .062”	V1252-ND	29.90	26.29	23.34

Prototyping Boards

Fig. 1

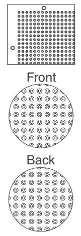

Fig. 2

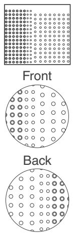

Fig. 3

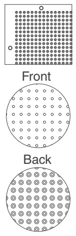

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
1	Prototype Board, 2mm Grid, Pad-Per-Hole 0.25” Double Sided, PTH	3.94” x 6.3” x .062”	V2013-ND	17.53	15.41	13.68	8017
2	Combo Board, 2mm/.100” Grid, Pad-Per-Hole Double Sided, PTH	3.94” x 6.3” x .062”	V2014-ND	20.11	17.68	15.70	8018
1	Prototype Board, 1mm Grid, Pad-Per-Hole 0.25” Double Sided, PTH	3.94” x 6.3” x .062”	V2016-ND◆	34.03	29.92	26.56	8020
1	Low Cost Double Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	4.00” x 6.00” x .062”	V2009-ND	11.52	10.13	8.99	8015
3	Low Cost Single Sided, .100 x .100” Grid, Pad-Per-Hole	4.00” x 4.00” x .062”	V2010-ND	7.33	6.45	5.73	8015-1
1	Low Cost Double Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	6.00” x 9.00” x .062”	V2011-ND	19.47	17.12	15.20	8016
3	Low Cost Single Sided, .100 x .100” Grid, Pad-Per-Hole	6.00” x 6.00” x .062”	V2012-ND	10.59	9.32	8.27	8016-1

◆ ***RoHS Compliant***

Prototyping PC Board Power Etching System and Etch Resist Ink Pens

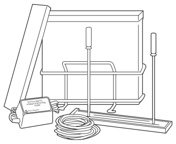

A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Air pump agitates etching solution for fast, very even etches. Handles up to two 8” x 10” (20.32cm x 25.40cm) PC boards at a time, either single or double sided.

Etching Kit Contains:

• 1 Etching Tank (1.25 Gallon capacity; 4.73 Liters) and Reservoir Lid, 12” H x 2 1/2” W x 10 1/2” L (30.48cm x 6.35cm x 26.67cm), (Molded Polyethylene — ABS PC Board Holder), Capacity • 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation • 1 Permanent or Portable Tip-Free Base • 1 PC Board Holder and Handle • 4 Feet (1.22 Meters) of Supply Hose

GC394-ND	Etching Kit	**$96.03**
GC392-ND	Etching Solution Heater	**$20.47**
GC220-ND	Standard Size Pen – draws lines approximately 1/32” (.79mm) wide — ***RoHS Compliant***	**$4.19**
GC222-ND	Fine Line Pen – draws lines as thin as 1/64” (.40mm) wide — ***RoHS Compliant***	**$4.46**

SURFBOARDS® by

The Surfboard Concept:
The concept behind SURFBOARDS is elegantly simple. Many models incorporate foil patterns that are designed to accommodate a wide variety of component mounting footprints. SURFBOARD® models for SOICs and PLCCs provide standard mounting footprints for the IC and depending on the model chosen, will include a prototyping area for additional components or provide a direct pin-out. Most SURFBOARD® models feature SIP (single in line) pins that make prototyping and interfacing with other circuits easy.

Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm). Thickness ±.005" (±.13mm) • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS® can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.

SOT-23

Trimmers

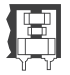
0805, 0603, 1206

6000 Series for Discrete Devices — .1" (2.54mm) Pin Spacing

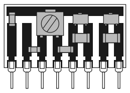

For building:
- Resistor Networks
- Capacitor Networks
- R-C Networks
- Diode Arrays
- Transistor Arrays
- SMD Sub-Assemblies

Fig. 1
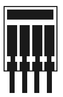

Fig. 2
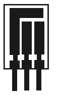

Fig. 3
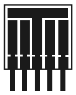

Fig. 4
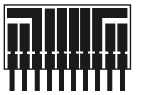

Fig. 5
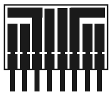

Fig. 6
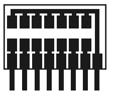

Fig. 7
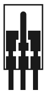

All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS® with a greater pin count repeat the same basic pattern as shown.

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1	Pricing 10
Surfboards® for Discrete Components				
1	4	6004CA-ND◆	1.72	13.14
	6	6006CA-ND◆	2.04	15.66
	7	6007CA-ND◆	2.28	17.46
	8	6008CA-ND◆	2.51	19.26
	10	6010CA-ND◆	3.08	23.58
	12	6012CA-ND◆	3.67	28.08
2	3	6103CA-ND◆	1.48	11.34
	6	6106CA-ND◆	2.04	15.66
	9	6109CA-ND◆	2.63	20.16
	12	6112CA-ND	3.67	28.08
	15	6115CA-ND◆	4.23	32.40
3	5	6405CA-ND◆	1.93	14.76

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1	Pricing 10
3	10	6410CA-ND	3.08	23.58
	15	6415CA-ND◆	4.23	32.40
4	10	6510CA-ND◆	3.08	23.58
	20	6520CA-ND◆	5.17	39.60
5	8	6808CA-ND◆	2.51	19.26
	16	6816CA-ND◆	4.11	31.50
6	8	6908CA-ND◆	2.51	19.26
	16	6916CA-ND◆	4.11	31.50
Surfboards® for SOT-89 — RoHS Compliant				
7	3	6303CA-ND	1.48	11.34
	6	6306CA-ND	2.04	15.66
	9	6309CA-ND	2.63	20.16

◆ ***RoHS Compliant***

Master Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 series of SURFBOARDS® for discrete components.
MK-6000CA-ND **$133.95**

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

Fig. 1 – Model 9081
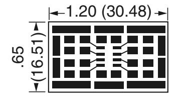

Fig. 2 – Model 9082
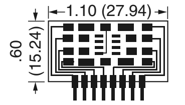

Fig. 3 – Model 9161
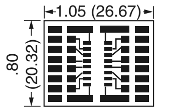

Fig. 4 – Model 9162
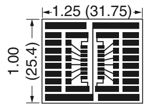

Fig. 5 – Model 9163
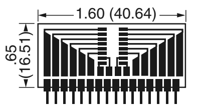

Fig. 6 – Model 9164
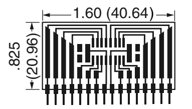

Fig. 7 – Model 9165
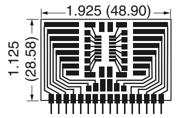

Fig. 8 – Model 9210
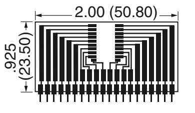

Fig. 9 – Model 9301
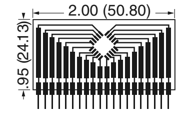

Fig. 10 – Model 9302
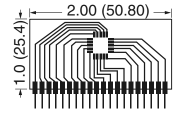

Fig.	Digi-Key Part No.	Pricing 1	Pricing 10
8 Pin SOIC			
1	9081CA-ND	1.60	12.24
2	9082CA-ND	4.11	31.50
16 Pin SOIC			
3	9161CA-ND	2.04	15.66
4	9162CA-ND	2.16	16.56
5	9163CA-ND	6.32	48.42
6	9164CA-ND	6.53	50.04
7	9165CA-ND	6.89	52.74
20 Pin, .3" (7.62mm) WIde			
8	9210CA-ND	7.47	57.24
20 Pin PLCC			
9	9301CA-ND	7.47	57.24
10	9302CA-ND	7.47	57.24

Master Asst. Kit for ICs:
32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND........... **$133.95**

SURFBOARDS® by

Application-Specific Adapters

• Accept Wide Range of Surface Mount Discrete Semiconductors and ICs
• Provide Convenient Medium for Prototyping, Test, and Development

Fig. 1 – Model 33003
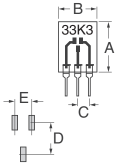

Fig. 2 – Model 33006
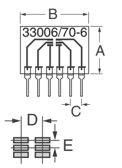

Fig. 3 – Model 33008
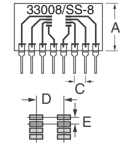

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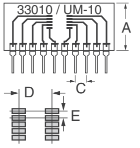

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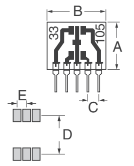

Fig. 6 – Model 33108
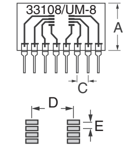

Fig. 7 – Model 33113
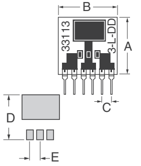

Fig. 8 – Model 33115
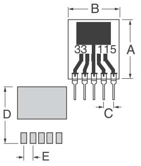

Fig. 9 – Model 33117
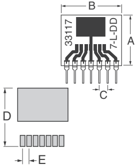

Fig. 10 – Model 33143
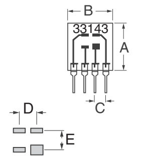

Fig. 11 – Model 33205
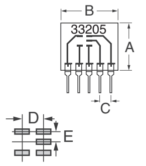

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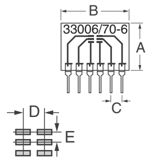

Fig. 13 – Model 33208
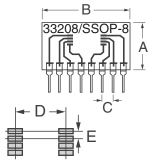

Fig. 14 – Model 33213
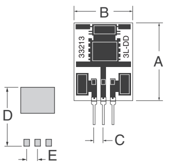

Fig. 15 – Model 33223
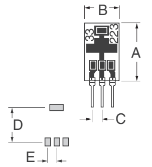

Fig. 16 – Model 33343
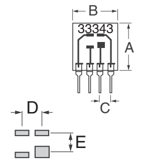

Fig. 17 – Model 33623
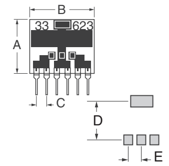

The 33000 Series of Surfboards® are application-specific adapters that convert surface mount component footprints to Single-In-Line (SIP) format. The boards feature pre-installed pins on .100" (2.54mm) centers making them compatible with conventional breadboards, solderless breadboards, and sockets. The SIP format provides ease of signal probing as well as higher densities when prototyping. Models are available to accept a wide range of surface mount semiconductors and integrated circuits.

Models 33113 and 33623 feature two SIP pins for each pad for higher current applications. Model 33213 features large soldering pads as connection points and SIP pins for measuring purposes. Boards are .031" ± .005" (.79mm ±.13mm) thick FR-4 and feature solder-coated 1-oz. Circuit Foils that can be hand-soldered or soldered by most conventional processes.

SIP pins are soldered in place on .100" (2.54mm) centers. All boards feature solder mask to limit flow of solder to pad area and aid assembly. Just add parts and plug in.

Fig.	Dimensions — Inch (mm) A	B	C	D	E	SIP Pins	Accepts These Devices	Digi-Key Part No.	Pricing 1	Pricing 10
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)	3	SC-70-3, SOT-323, NEC Pkg-30	33003CA-ND◆	1.01	7.74
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)	6	SC-70-6, SOT-363	33006CA-ND◆	2.07	15.84
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)	8	SuperSOT-8™ (Fairchild)	33008CA-ND◆	2.80	21.42
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)	10	Micromax-10 (Maxim)	33010CA-ND◆	3.22	24.66
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)	5	SOT-89-5	33105CA-ND◆	1.81	13.86
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)	8	MSOP-8, TSSOP-8, Micromax-8 (Maxim), Micro-8 (Int'l Rect.), Mini SO-8 (Burr-Brown)	33108CA-ND◆	2.80	21.42
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)	6	TO-263AB, 3-Lead D-Pkg	33113CA-ND◆•	2.84	21.78
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)	5	5-Lead DD Pkg., Surface Mount Device	33115CA-ND	2.37	18.18
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)	7	7-Lead DD Pkg., Surface Mount Device	33117CA-ND◆	3.22	24.66
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)	4	SOT-143, Surface Mount Device	33143CA-ND◆	1.53	11.70
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)	5	SOT-23-5, SC59-5, Burr-Brown Pkg. 331, Tinylogic™ (Fairchild), Microgate (Texas Inst.)	33205CA-ND◆	1.86	14.22
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)	6	SOT-23-6, SOT-23-L, SC59-6, TSOP-6‡, SuperSot-6™ (Fairchild), Micro-6™ (Int'l Rect.)	33206CA-ND◆	2.07	15.84
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)	8	SSOP-8	33208CA-ND◆	2.80	21.42
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)	3	TO-263AB, 3-Lead D-Pkg.	33213CA-ND◆•	3.45	26.46
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)	3	SOT-223, Surface Mount Device	33223CA-ND◆	1.27	9.72
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)	4	SOT-343	33343CA-ND◆	1.53	11.70
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)	6	SOT-223	33623CA-ND◆•	2.30	17.64

◆ ***RoHS Compliant*** • Higher Current Applications ‡ Not exact device/pad match

OK Industries
Division of Jonard Industries Corp.

Wire Wrap Gun and Bits

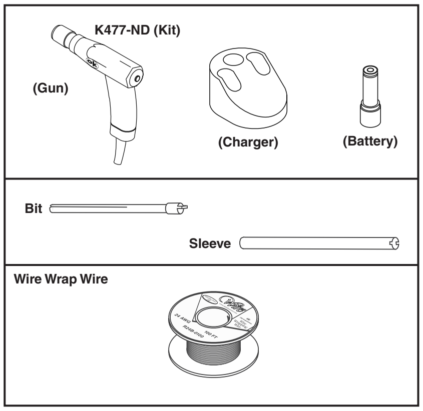

The PTX Series Wire Wrapping Tools for OK Industries bring revolutionary new benefits to installers, telecom technicians and other users. With worker safety in mind, OK Industries created an ergonomic tool which includes a lightweight, well-balanced construction, dual finger short throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry leading design from a comfort and safety standpoint. Choose either 115V powered wire wrap/unwrap gun or the portable battery powered wrap/unwrap tool. PTX wire wrapping kit includes the ergonomic battery wrap/unwrap tool, battery charger and 2 batteries for continuous wire wrapping jobs.

Description	Digi-Key Part No.	Price Each
Tools / Guns		
Wire Wrap/Unwrap Gun 115V	K471-ND	236.69
Wire Wrap/Unwrap Gun w/ Backforce 115V	K472-ND	244.76
Kit		
Complete PTX Wire Wrap Kit, Gun, Charger, 2 Batteries	K477-ND	321.77
Sleeves and Bits — RoHS Compliant		
Sleeve for 26AWG Bit	K324-ND	37.26
Bit, 26AWG for .025" sq. Post, .031” Max. Insul.	K323-ND	50.81
Sleeve for 28 and 30AWG Bit	K322-ND	37.26
Bit, 30 ~ 32AWG for .025" sq. Post	K485-ND	50.81
Bit, 30AWG for .025" sq. Post	K320-ND	56.45
Kynar® Wire Wrap Wire		
24AWG, Blue, 100’ (30.48m)	K515-ND◆	19.10
24AWG, Black, 100’ (30.48m)	K516-ND◆	19.10
24AWG, Red, 100’ (30.48m)	K517-ND◆	19.10
24AWG, Yellow, 100’ (30.48m)	K518-ND◆	19.10
24AWG, White, 100’ (30.48m)	K519-ND◆	19.10
26AWG, Blue, 100’ (30.48m)	K327-ND◆	14.42
26AWG, Black, 100’ (30.48m)	K386-ND◆	14.42
26AWG, Red, 100’ (30.48m)	K387-ND◆	14.42
26AWG, Yellow, 100’ (30.48m)	K388-ND	14.42
26AWG, White, 100’ (30.48m)	K389-ND◆	14.42
28AWG, Blue, 100’ (30.48m)	K326-ND◆	12.50
28AWG, Black, 100’ (30.48m)	K390-ND◆	12.50
28AWG, Red, 100’ (30.48m)	K391-ND◆	12.50
28AWG, Yellow, 100’ (30.48m)	K392-ND◆	12.50
28AWG, White, 100’ (30.48m)	K393-ND◆	12.50
30AWG, Blue, 100’ (30.48m)	K325-ND◆	11.17
30AWG, Black, 100’ (30.48m)	K394-ND◆	11.17
30AWG, Red, 100’ (30.48m)	K395-ND◆	11.17
30AWG, Yellow, 100’ (30.48m)	K396-ND◆	11.17
30AWG, White, 100’ (30.48m)	K397-ND◆	11.17
Low Strip Force Kynar Wire Wrap Wire — RoHS Compliant		
30AWG, Blue, 100’ (30.48m)	K329-ND	21.25
30AWG, White, 100’ (30.48m)	K443-ND	21.25
30AWG, Red, 100’ (30.48m)	K444-ND	21.25
30AWG, Black, 100’ (30.48m)	K445-ND	21.25
30AWG, Yellow, 100’ (30.48m)	K520-ND	21.25
30AWG, Blue, 1000’ (304.80m)	K531-ND	85.42
30AWG, White, 1000’ (304.80m)	K532-ND	85.42
30AWG, Black, 1000’ (304.80m)	K533-ND	85.42
30AWG, Red, 1000’ (304.80m)	K534-ND	85.42
30AWG, Yellow, 1000’ (304.80m)	K535-ND	85.42

◆ ***RoHS Compliant***

Alignment Tool Kit

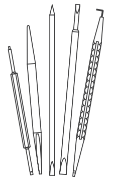

This 5 piece pocket kit contains a selection of the most popular non-conductive tools for aligning and adjusting components.

Kit contains: Trimpot, Alignment 2-in-1 Tool, Spudger, Orange Stick, Probe Pick.

K513-ND	Alignment Tool Kit	**$7.00**

Manual Wire Wrap Tools

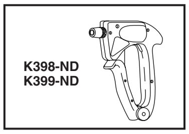

Description	Digi-Key Part No.	Price Each
Manual Wrap Tool - Lexan	K398-ND◆	112.58
Manual Wrap Tool - Aluminum	K399-ND	146.25
Manual Wrap Tool - Insulated Version	K478-ND◆	149.85

◆ ***RoHS Compliant***

Single Wire Dispenser

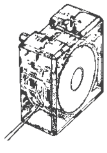

- With 50 feet (15.24 meter) roll of AWG 30 Kynar® wire-wrapping wire
- Built-in Plunger cuts wire to desired length
- Built-In Stripper strips 1˝ (2.54cm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Blue Wire	K223-ND◆	18.75
Yellow Wire	K224-ND◆	18.75
White Wire	K225-ND◆	18.75
Red Wire	K226-ND◆	18.75
Dispenser Replacement Rolls		
30AWG, Blue, 50 feet (15.24 meter) Roll	K229-ND◆	8.47
30AWG, Yellow, 50 feet (15.24 meter) Roll	K230-ND◆	8.47
30AWG, White, 50 feet (15.24 meter) Roll	K231-ND	8.47
30AWG, Red, 50 feet (15.24 meter) Roll	K232-ND	8.47

◆ ***RoHS Compliant***

Tri-Color Dispenser

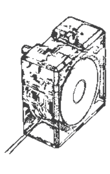

- 3 Roll Dispenser
- 3 Colors: blue, white, red; 50 feet (15.24 meters) of each color
- AWG 30 (0.25mm) Kynar® insulated wire
- Built-in plunger cuts wire to desired length
- Built-In stripper strips 1˝ (25.40mm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Tri-Color Dispenser	K227-ND	30.83
Replacement Rolls	K228-ND	16.89

Wire Wrap Wire

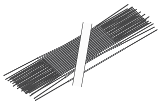

- 30AWG, Pre-Cut/Pre-Stripped — 50 Wires/Package
- 1˝ (2.54cm) Stripped Ends

Description	Digi-Key Part No.	Price Each
Blue Wire, 3˝ (7.62cm) Overall Length	B3-ND◆	7.91
Yellow Wire, 3˝ (7.62cm) Overall Length	Y3-ND◆	7.91
White Wire, 3˝ (7.62cm) Overall Length	W3-ND◆	7.91
Red Wire, 3˝ (7.62cm) Overall Length	R3-ND◆	7.91
Blue Wire, 4˝ (10.16cm) Overall Length	B4-ND	7.91
Yellow Wire, 4˝ (10.16cm) Overall Length	Y4-ND◆	7.91
Red Wire, 4” (10.16cm) Overall Length	R4-ND◆	7.91
White Wire, 4” (10.16cm) Overall Length	W4-ND◆	7.91
Blue Wire, 5˝ (12.70cm) Overall Length	B5-ND◆	8.47
Yellow Wire, 5˝ (12.70cm) Overall Length	Y5-ND◆	8.47
White Wire, 5˝ (12.70cm) Overall Length	W5-ND◆	8.47
Red Wire, 5˝ (12.70cm) Overall Length	R5-ND◆	8.47
Blue Wire, 7˝ (17.78cm) Overall Length	B7-ND◆	8.47
Yellow Wire, 7˝ (17.78cm) Overall Length	Y7-ND◆	8.47
White Wire, 7˝ (17.78cm) Overall Length	W7-ND◆	8.47
Red Wire, 7˝ (17.78cm) Overall Length	R7-ND◆	8.47

◆ ***RoHS Compliant***

Hobby Wrap Hand Tools

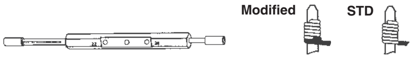

Wire-wrapping, stripping and unwrapping tool. For 30AWG on .025” (0.63mm) and 22-24AWG on .030” (0.76mm) and .045” (1.14mm) Square Post.

K104-ND	Regular Wrap (30AWG)	**$31.85**
K105-ND	Modified Wrap (30AWG)	**$31.85**
K107-ND	Regular Wrap (22 ~ 24AWG)	**$45.73**

Precision Hand Wrapping and Unwrapping Tools

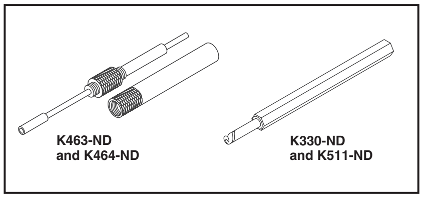

K463-ND	Combination Hand Wrap-Unwrap Tool (30AWG)	**$94.52**
K464-ND	Combination Hand Wrap-Unwrap Tool (22 ~ 24AWG)	**$82.10**
K330-ND	Universal Wire Unwrap Hand Tool (24 ~ 32AWG)	**$28.23**
K511-ND	Unwrap Hand Tool (20 ~ 26AWG)	**$28.23**

Tool Kits

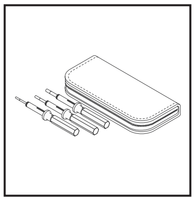

These tools service virtually all connectors conforming to Mil-C-26482, Mil-C-26500 with front release contacts made by such manufacturers as Amp, Amphenol, Bendix, Burndy, Cannon, Cinch, Continental, Elco, Flight, Pyle National and Deutsch.

(contains 3 tools):

- Red: .040” (20mm) contact size
- Blue: .063” (16mm) contact size
- Yellow: .093” (12mm) contact size

Fig.	Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
1	Extraction Tool Kit	K540-ND	148.60	KR-260
—	Insertion Tool Kit	K539-ND	135.40	KA-260

Pin Extractor

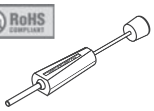

Features:

- Plunger style pin extractor for pushing pins out from behind the connector blocks for contact sizes 16-20
- 3” (76.20) long

Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
Pin Extractor	K541-ND	11.95	R-5926

Tool Kits

Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
Tool Kit Insulated Screwdriver	K542-ND	34.40	TK-70INS
Tool Kit Insulated Screwdriver/Plyer	K543-ND	105.85	TK-110INS

Crimp Tool

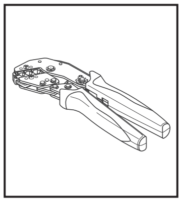

This fully ratcheted crimper is designed for minimal closing force (higher crimp force produced with lower hand force). The head is angled to lessen the need to bend the wrist awkwardly, die changes are made quickly and easily, ergonomic handles, built in safety release mechanism, very durable steel housing accommodates both Fiber Optic and Coax dies.

Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
Universal Crimper with COAX Die	K546-ND	55.85	UC-8012

Wire Stripper

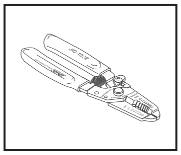

Features include a coil spring opening to reduce fatigue, wire looping, bending holes conveniently located, locking mechanism, tempered and ground for superior performance. 6 ¾” long and weighing just 4.5 ounces.

Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
Wire Stripper/Cutter (10 ~ 22AWG)	K521-ND	9.10	JIC-1022

AVEN

Probe Sets

Fig. 1

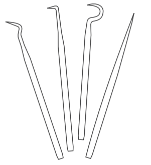

Fig. 2

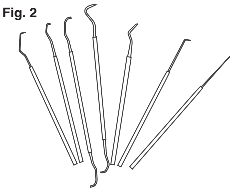

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
1	4-Piece Probe Set	243-1101-ND	6.47	20214
2	7-Piece Probe Set	243-1102-ND	10.96	20215

Swanstrom Tools USA

Cutters and Pliers

Fig. 1

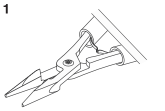

Fig. 2

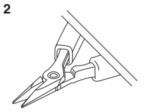

Fig. 3

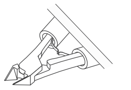

Fig. 4

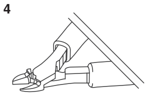

Fig. 5

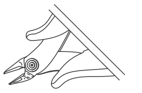

Fig. 6

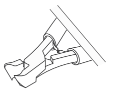

Traditional Handle

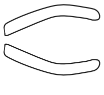

- High carbon, alloy forged American steel for long tool life • Alloy steel rivets for smooth action • Machined and lapped joints • Polished finish for cleanliness and rust prevention • Double stainless steel leaf spring • Soft touch static dissipative foam grips to minimize ESD and CTS

Fig.	Description	Digi-Key Part No.	Price Each	Swanstrom Part No.
	Long Nose Pliers, Serrated Jaw, Shear Cut			
1	Size 6 (153mm)	232-1012-ND	33.26	351
	Slim Long Nose Pliers, Smooth Jaw			
2	Size 5 (136mm)	232-1017-ND	24.40	324
	Slim Long Nose Pliers, Serrated Jaw			
2	Size 4 (136mm)	232-1013-ND	24.40	325
	Size 6 (164mm), HD	232-1019-ND	26.60	631
	Thin Nosed Pliers, Serrated Jaw			
2	Size 5 (127mm)	232-1028-ND	21.06	LX54
	Submini, Needle Nose Pliers, Serrated Jaw			
2	Size 4 (102mm)	232-1029-ND	20.50	LX4
	Submini, Needle Nose Pliers, Smooth Jaw			
2	Size 4 (102mm)	232-1030-ND	21.72	LX4G
	Tapered Cutters, Flush Edge			
3	Size 4 (122mm)	232-1010-ND	27.72	415
	Size 5 (125mm)	232-1016-ND	29.94	515
	Oval Cutters, Flush Edge			
4	Size 4 (102mm)	232-1027-ND	22.06	MX54-9
	Size 4 (122mm)	232-1009-ND	27.72	411
	Size 5 (125mm)	232-1015-ND	29.94	511
	Size 6 (137mm)	232-1018-ND	31.06	611

Fig.	Description	Digi-Key Part No.	Price Each	Swanstrom Part No.
	Oval Cutters, Relieved Edge			
4	Size 4 (102mm)	232-1026-ND	22.16	MX54-3
	Stamped Cutters, Shear Cut			
5	Size 5 (127mm)	232-1025-ND	7.40	STUSA-170
	60° Oval Nipper, Flush Edge			
6	Size 4 (125mm)	232-1011-ND	38.80	491

Super Ergonomic Handle

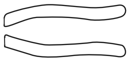

- High chromium, alloy forged steel for maximum tool life
- Electronic induction hardening for maximum cutter life
- Hard alloy self-lubricating bearings for perfect jaw alignment
- Precision machined and lapped joints
- Double stainless steel leaf springs
- Soft touch static dissipative foam grips to minimize ESD and CTS

Fig.	Description	Digi-Key Part No.	Price Each	Swanstrom Part No.
	Slim Long Nose Pliers, Serrated Jaw			
2	Size 4 (158mm)	232-1008-ND	35.48	S325E
	Long Nose Pliers, Smooth Jaw			
2	Size 4 (156mm)	232-1035-ND	37.26	S220E
	Size 5 (174mm)	232-1031-ND	39.58	S320E
	Long Nose Pliers, Serrated Jaw			
2	Size 4 (156mm)	232-1032-ND	37.26	S221E
	Tapered Cutters, Flush Edge			
3	Size 4 (144mm)	232-1001-ND	59.90	S415E
	Size 5 (147mm)	232-1007-ND	59.90	S515E
	Oval Cutters, Super Flush Edge			
4	Size 5 (147mm)	232-1033-ND	62.86	S512E
	Size 6 (161mm)	232-1034-ND	65.20	S612E
	60° Oval Nipper, Super Flush Edge			
6	Size 4 (146mm)	232-1002-ND	66.52	S491E

EREM®

Diagonal Cutters

N Series - Magic Springs

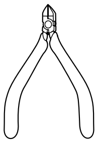

Features:

- Superior to Leaf Springs
- Invisible, internal EREM-Magic springs provide uniform, constant tension and ultimate performance
- Linear closing and opening force
- High Precision Inter-Lock Screw Joint System: Surfaces between the two halves are machine faced to provide smooth, wobble-free operation with no blade overlap

Description	Digi-Key Part No.	Price Each	EREM Part No.
4" (101.6mm), Oval, Semi-Flush	612N-ND	46.80	612N
4" (101.6mm), Oval, Full-Flush	622N-ND	46.80	622N
5" (127.0mm), Oval, Full-Flush	522N-ND	46.80	522N

Cutters and Pliers

Features:

- Co-molded ergo-grip for maximum comfort
- Made of extruded 100% machined Eremadium® tool steel for durability
- Patent internal Magic® spring maintains constant fatigue-free operation

Fig. 1

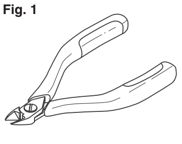

Fig. 2

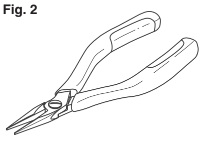

Fig.	Description	Digi-Key Part No.	Price Each	Erem Part No.
1	5" Oval Full Flush Cutter	2422E-ND	55.12	2422E
	5" Oval Super Full Cutter	2432E-ND	55.12	2432E
2	5" Smooth Needle Nose Pliers	2411P-ND	52.00	2411P

Tweezers

Straight Tapered Tip Tweezers

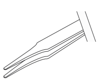

EROP • 4.5" (114.30mm) • Straight, round, tapered tip tweezers • Provide larger, flat gripping surface for handling a variety of small components

EROP2ASA-ND **$3.30**

Straight Precision Tip Tweezers

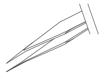

EROP • 4.25" (107.95mm) • Straight Point Tweezers • For general use

EROP3CSA-ND **$3.30**

Curved Precision Tip Tweezers

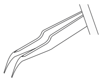

EROP •4.5" (114.30mm) • Curved precision tip tweezers improve visibility when used under magnification

EROP7SA-ND **$3.30**

Straight Fine Tip Tweezers

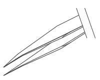

EROP • 5" (127.00mm) • General use straight point tweezers with hardened tips

EROPAASA-ND **$3.30**

Angled Cutting Tip Tweezers

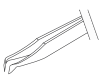

EREM • 4.5" (114.30mm) • Angled cutting tweezers • Tempered carbon steel, hard but low rust resistance

15AGS-ND **$27.04**

Straight Soft Carbon Tip Tweezers

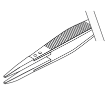

EREM • 5" (127.00mm) • 304/305 stainless steel • Soft carbon tipped handling tweezers • Soft tips minimize scratching or nicking of fragile wires and parts • Temperature range is 250°F ~ 300°F (121°C ~ 149°C) Nonmagnetic and non-corrosive • Resistant to hydrochloric and nitric acids

249SA-ND **$27.69**

Xcelite®

Precision Electronic Screwdriver Sets

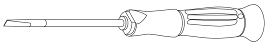

- Chrome-molybdenum vanadium steel blades
- Fast-turning swivel caps with cavity for precise centering
- Precision tolerance black tips
- No-roll handle design.

XP600-ND Includes: • 1.5mm x 60mm Slotted Screwdriver • 2.0mm x 60mm Slotted Screwdriver • 2.5mm x 60mm Slotted Screwdriver • 3.0mm x 60mm Slotted Screwdriver • #00 Point Size Phillips Screwdriver • #0 Point Size Phillips Screwdriver

XPTX600-ND Includes: • #5 Point Standard Torx Screwdriver • #6 Point Standard Torx Screwdriver • #7 Point Tamper-proof Torx Screwdriver • #8 Point Tamper-proof Torx Screwdriver • #10 Point Tamper-proof Torx Screwdriver • #15 Point Tamper-proof Torx Screwdriver

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
6 Pc. Screwdriver Set	XP600-ND	24.00	XP600
6 Pc. Torx Screwdriver Set	XPTX600-ND	28.22	XPTX600

Xcelite®

Screwdriver and Nutdriver Sets - Inch Sizes

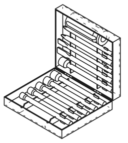

See-through stand-up plastic cases. **PS-120** Color-coded handles. Comes with black "piggyback" torque amplifier handle. **Regular Nutdrivers:** 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
11 Piece Nutdriver Set	PS120-ND	36.40	PS120

Micro Series Shearcutters

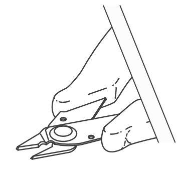

General Purpose: • Low profile • Superior blade by-pass shear cutting action • Better cuts with half the effort • Greatly reduced mechanical shock delivered to the work • 170M feature red grips • 170D, 175D feature static-dissipative black grips • 175D feature safety clips • 170D, 175D especially hardened and plated

Heavy Duty: • Heavy-duty for IC pins, cables and harnesses • Maximum durability • Maximum operator safety • 1178M features red grips • 1178D features static-dissipative black grips • 1178D especially hardened and plated

Description	Digi-Key Part No.	Price Each
General Purpose	170M-ND	5.81
General Purpose	170DCI-ND	6.44
General Purpose	175DCI-ND	7.83
Heavy Duty	1178M-ND	10.48
Heavy Duty	1178D-ND	12.63

Electronics Cutters and Pliers

All pliers are standard with coil spring and ESD safe cushion grip handles.

• All pliers are manufactured to the highest professional quality • Cutting edges are electronically hardened • Machining is to close tolerances, with individual finishing and testing for exact fit of jaws • All have polished heads with gun metal handles

Fig. 1

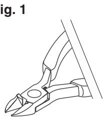

- Diagonal flush cutter
- Ground down on back side for reaching into confined places

Fig. 2

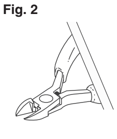

- Diagonal cutter with flush ground cutting edges

Fig. 3

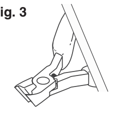

- Cutting blade is flush ground and angled at 29° • Cutting plier is designed to give long wear for cutting soft wire

Fig. 4

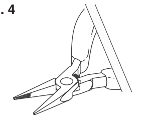

- Miniature very fine point for delicate work in very confined areas
- Has scored jaws

Fig. 5

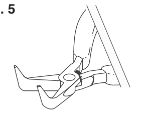

- For reaching into confined places
- Nose bent approximately 60°
- Smooth jaws

Fig. 6

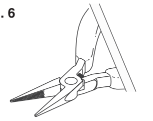

- Has finely scored jaws

Fig. 7

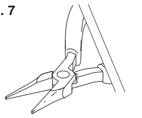

- Has scoring on jaws

Fig.	Description	Size Inch (mm)	Digi-Key Part No.	Price Each
1	Full Flushed Relieved Tapered Cutter	4 (102.00)	MS543JV-ND	17.15
2	Semi-Flush Diagonal Cutter	4 (102.00)	MS54-ND	15.07
3	Angled Flush Cutter	4 (102.00)	GA54J-ND	26.96
4	Long Nose Pliers	4 (102.00)	L4V-ND	15.02
5	Curved Long Nose Pliers	5 (127.00)	CN54G-ND	18.52
6	Long Nose Pliers	5 (127.00)	LN54V-ND	16.49
7	Needle Nose Pliers	5 (127.00)	NN542-ND	19.55

Reverse Action Tweezers

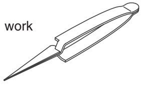

- Self closing, smooth, sharp points for holding work
- Size: 4 1/2" (115mm)

XHT412-ND............................ **$5.62**

Crescent®

Ratcheting Screwdriver Set

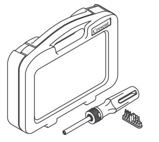

SDMBR2-ND Includes:

- **7 Fractional Power Nutdrivers:** 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"
- **7 Metric Power Nutdrivers:** 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm
- **18 Screwdriver Bits:** #1, #2, #3. Phillips®, 1/4", 5/32", 3/16"
- **Slotted:** #1, #2, #3 Square Recess
- **Stainless Steel Bit Holder with 1/4" Hex Drive:** TX6, TX8, TX10, TX15, TX20, TX25
- **Torx®:** 1/4", 5/32", 3/16" Hex.

Description	Digi-Key Part No.	Price Each	Crescent Part No.
34 Piece	SDMBR2-ND	38.18	SDMBR2

148-Piece Professional Tool Set

This set contains all the tools needed for most industrial applications, including 1/4", 3/8", and 1/2" quick-release ratcheting drives, with a wide selection of standard and deep sockets in the most common SAE and metric sizes.

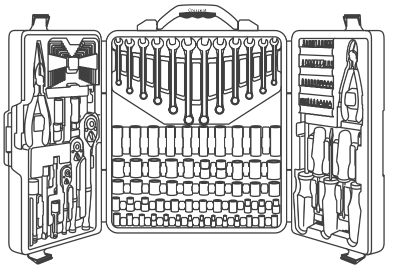

CTK148MP-ND **$141.30**

PANAVISE®

Presses, Cutter and Plates

Fig. 1 – 502 Precision PanaPress

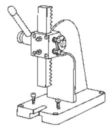

A 501 Standard Pana-Press with four nylon gibs for precision directional control of the vertical ram.

Fig. 2 – 506 Retrofit Kit

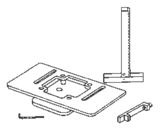

Converts a 502 Precision PanaPress into the 505 IDC Bench Assembly Press. The kit includes the assembly base, standard platen, modified ram, guide arm, and an allen wrench.

Fig. 3

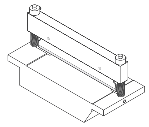

Fig. 4

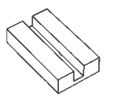

Fig. 5

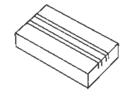

Fig. 6

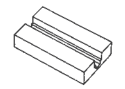

Fig. 7

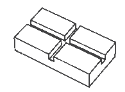

Fig.	Description	Digi-Key Part No.	Price Each
1	Hand Press Bench Mount	502PV-ND	175.99
2	Hand Press IDC Conversion Kit	506PV-ND	59.99
3	Flat Ribbon Cable Cutter - Model 507	507PV-ND	67.99
4	Standard IDC Card Edge Connector Base Plate	511PV-ND	29.99
5	Standard IDC Dip Plugs Base Plate	512PV-ND	29.99
6	Standard IDC D-Sub Connector Base Plate	513PV-ND†	29.99
7	Standard Female IDC Socket Base Plate	510PV-ND	29.99

† Do not use with CW Industries all plastic D-sub connectors.

PANAVISE®

Vises and Accessories

Fig. 1

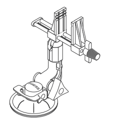

Fig. 2

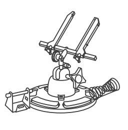

Fig. 3

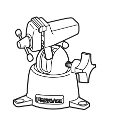

Fig. 4

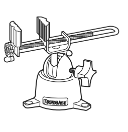

Fig. 5

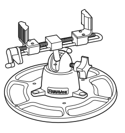

Fig. 6

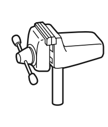

Fig. 7

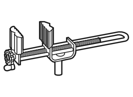

Fig. 8

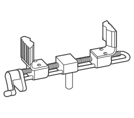

Fig. 9

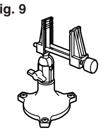

Fig. 10

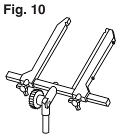

Fig. 11

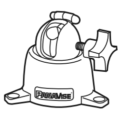

Fig. 12

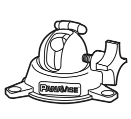

Fig. 13

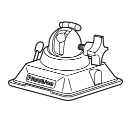

Fig. 14

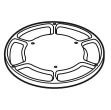

Fig. 15

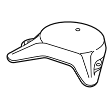

Fig. 16

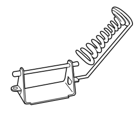

Fig. 17

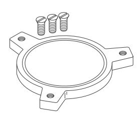

Fig. 18

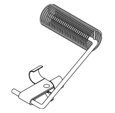

Must be used with Fig. 7 or Fig. 8 (sold separately).

Fig. 19

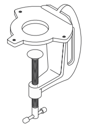

Fig.	Description	Digi-Key Part No.	Price Each
1	Portable Vacuum Base Precision Vise	209PV-ND	32.99
2	Deluxe Electronic Work Center - Solder wire and soldering station not included	324PV-ND	91.99
3	Standard Station (303 head/300 base)	301PV-ND	49.99
4	Wide Opening Station (366 head/300 base)	396PV-ND	64.99
5	Wide Opening-Self Centering Work Station (376 head/300 base/312 tray base mount)	350PV-ND	94.99
6	Standard Head - 2 1/2" (63.50mm) wide, opens to 2 1/4" (57.15mm)	303PV-ND	27.99
7	Wide Opening Head - 1 3/4" (44.45mm) wide, opens to 6" (152.40mm)	366PV-ND	42.99
8	Wide Opening-Self Centering Head - 1 3/4" (44.45mm) wide, opens to 9" (228.6mm)	376PV-ND	54.99
9	Junior Universal Vise	201PV-ND	27.99
10	Circuit-Board Holder - 6" (152.40mm) arms, extends to 12" (304.80mm) wide	315PV-ND	35.99
11	Standard Base 3 3/4" (95.25mm) high	300PV-ND	24.99
12	Low-Profile Base - Only 2 1/2" (63.50mm) high	305PV-ND	24.99
13	Vacuum Base	380PV-ND	39.99
14	Tray Base Mount - 8 1/2" (215.90mm) diameter, base mount only	312PV-ND	21.99
15	Weighted Base Mount	308PV-ND	29.99
16	Solder Station - Solder iron holder, wire holder and 2 slit sponges, can be used for left or right hand use	371PV-ND	16.99
17	Magnetic Base - Adapts to 201, 300 and 305 bases	335PV-ND	23.99
18	Universal Wire Holder for 366 and 376 jaws	358PV-ND	21.99
19	Bench Clamp Base Mount - Model 311	311PV-ND	49.99

Quality Tools

ESD Cutters and Safe Pliers

- Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort and user fatigue
- Box joint for longer tool life and endurance, mirror polished finish
- Welded double leaf spring
- Hardened and annealed high-carbon tool steel, induction hardened cutting edges

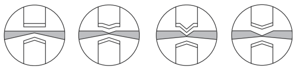

Side Cutters

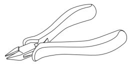

Small Tapered Head
with Hollow Ground Back,
Flush, 115mm
431-1041-ND (32704) **$49.22**

Small Tapered Head,
Flush, 115mm
431-1039-ND (32705) **$50.62**

Slim Oval Head,
Flush, 115mm
431-1044-ND (32712) **$48.00**

Slim Oval Head,
Full–Flush, 115mm
431-1035-ND (32714) **$53.96**

Wide Oval Head with
Wire Trapping, Full–Flush, 115mm
431-1038-ND (32721) **$49.22**

Wide Tapered Head,
Flush ESD, 115mm
431-1057-ND (32708) **$48.00**

Wide Tapered Head,
Full–Flush ESD, 115mm
431-1058-ND (32710) **$52.81**

Oblique Cutters

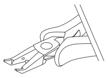

Angled, 29°, Full Flush, 115mm
431-1030-ND (32724) **$60.05**

Front, Very Small Head, 40°, Flush, 110mm
431-1045-ND (32728) **$52.81**

Pliers

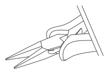

Short Snipe Nose (Chain Nose) Straight, Serrated Jaws, 120mm
431-1031-ND (32742) **$43.22**

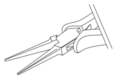

Long Needle Nose, Straight, Serrated Jaws, 145mm
431-1042-ND (32746) **$49.22**

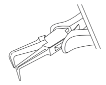

Needle Nose, Bent 90°, Smooth Jaws, 145mm
431-1032-ND (32748) **$49.60**

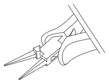

Short Round Nose, Smooth Jaws, 120mm
431-1033-ND (32750) **$43.22**

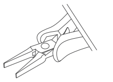

Short Flat Nose, Smooth Jaws, 120mm
431-1034-ND (32752) **$43.22**

Cable Cutter

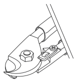

Soft Vinyl Grip, Lay-On Joint, Sickle Jaw,170mm
431-1046-ND (32641) **$43.91**

Diagonal Cutter

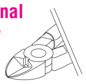

Soft Vinyl Grip, Lap Joint, 140mm
431-1052-ND (32638) **$17.89**

L – Key Set

9 – Piece Metric Ball End Long Hex • Includes: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, and 10.0 mm
431-1054-ND (36990) **$16.86**

13 – Piece Inch Ball End Long Hex • Includes: 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"
431-1055-ND (36991) **$19.98**

ESD Safe Tweezers

Conductive ESD coating is hypo-allergenic. Resistance is 10^4 to $10^6\Omega$. All tweezers are made from premium stainless steel and are anti-magnetic and acid resistant.

Style AA SA IND

130mm long.
Universal fine point tweezers with non-glare finish.
431-1020-ND (44501) **$16.54**

Style SS SA IND

135mm long.
Long narrow body, low force with non-glare finish.
431-1021-ND (44503) **$22.98**

Style 3 SA IND

120mm long. Fine tip, round body assembly style with non-glare finish.
431-1022-ND (44506) **$22.98**

Style 7a SA IND

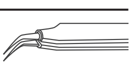

120mm long.
Curved with extra fine round tip and non-glare finish.
431-1023-ND (44510) **$26.86**

Style 22 SA IND

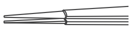

150mm long. Narrow rounded tip and guide pin, serrated and non-glare finish.
431-1024-ND (44518) **$21.57**

Style PSF SA IND

125mm long.
Long rounded to 1mm blunt tip, non-glare finish.
431-1025-ND (44523) **$21.98**

Style 7abb SA IND

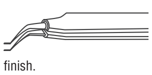

120mm long.
Curved, extra fine with 3mm extended tip, non-glare finish.
431-1026-ND (44525) **$32.12**

Style 8b SA IND

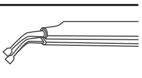

120mm long.
Micro tip 30º bend, 0.5mm slot, 1mm flat, non-glare finish.
431-1027-ND (44529) **$28.46**

Style 1 SA IND

120mm long.
General purpose fine point with non-glare finish.
431-1028-ND (44531) **$21.43**

Style 00 SA IND

120mm long.
Universal fine point tweezers with non-glare finish.
431-1029-ND (44532) **$29.98**

Compact Tool and Small Parts Magnetizer/ Demagnetizer

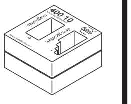

- Instantly magnetize or demagnetize steel tools and small parts
- Works with items over 1.3" in length and 1/8" or 3mm diameter
- Uses powerful C8 permanent industrial ceramic magnets
- No batteries or electrical required

431-1056-ND (40010) **$5.98**

ESD Safe Fixed Handle Precision Screwdriver Sets

- With finger tip control cap

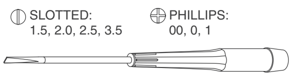

Slotted and Phillips Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish.
431-1000-ND (27390) **$37.50**

TORX Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish. Includes Torx sizes: T4, T5, T6, T7, T8, T9, T10.
431-1001-ND (27890) **$45.51**

ESD Safe Field Service Kit

(DRAWINGS ARE NOT TO SCALE)

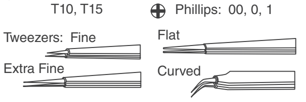

ESD Slotted, Phillips and TORX interchangeable blades with ESD safe tweezers. Packed in rugged canvas storage pouch.
431-1002-ND (44590) **$135.14**

ESD Safe Interchangeable Precision Screwdriver Sets

- Adjustable Blade Lengths – .75" to 3.75"
- Anti-Static Conductive Handle

(DRAWINGS ARE NOT TO SCALE)

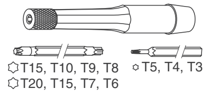

Slotted and Phillips Interchangeable Blade Precision Technicians Set

Blades; CVM hardened tool steel, satin chrome finish with molded indexed storage box. Includes: Slotted - 1.5, 2.0, 3.0, 3.5mm; Phillips: #000, #00, #0, #1.
431-1003-ND (26996) **$38.88**

Slotted, Phillips and TORX Interchangeable Blade Precision Technicians Set

Includes: Slotted - 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm; Phillips: #000, #00, #0, #1, TORX: T6, 7, 8, 9, 10, T15.
431-1004-ND (26997) **$63.88**

TORX Interchangeable Blade Precision Technicians Set

Blades CVM hardened tool steel. Storage box. Includes TORX Sizes: - T3, T4, T5, T6 + 8, T7 + 9, T10 + 15, T15 + 20.
431-1005-ND (26987) **$46.99**

ESD Safe Chip-Lifter

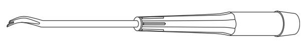

Split tip is perfect for reaching around pins and lifting chips and other components from sockets or from desoldered boards. Handle is conductive anti-static.
431-1016-ND (27920) **$7.52**

Driver Sets

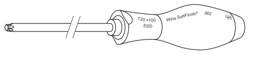

6 Piece ESD Safe Slotted and Phillips Drivers
Round blade, high alloy CVM hardened steel, chrome plated. Dissipative SoftFinish® cushy grip handle. Slotted: 3, 4, 5.5 Phillips: 0, 1, 2
431-1048-ND (30292) **$44.88**

6 Piece ESD Safe Torx® Screwdrivers
Round blade, high alloy CVM hardened steel, chrome plated. Tip Sizes: T6, T8, T9, T10, T15, T20
431-1050-ND (36289) **$45.58**

PHILLIPS: #00, #0, #1 SLOTTED: 1.5, 2.0, 3.0, 4.0
TORX: T6, T7, T8, T9, T10, T15
HEX (IN.): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32

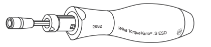

ESD Safe Adjustable TorqueVario-S Bit Set
24 piece. Ergonomic multi-component handle. Includes 21 Micro Bits, Micro Bit holder, torque adjustment tool, steel storage box. With certificate of calibration. Adjustable from 7.5 to 20 inch pounds.
431-1047-ND (28592) **$199.45**

Safety Insulated Screwdrivers

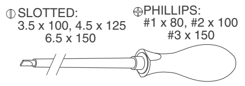

6 piece insulated screwdriver set. Tools certified to 1000 volts. Meets VDE 0680-2, IEC 900 and ASTM -F1505. Specifications for insulated tools. Blades of CVM hardened tool steel. Ergonomic molded-on soft grips.
431-1018-ND (32092) **$46.62**

Standard Precision Technicians Tool Sets

- Fingertip control cap
- Narrow tapered handle

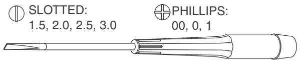

7 piece Slotted and Phillips Standard Precision Technicians Set

Blades of CVM hardened tool steel, satin chrome finish. Molded-on handles proportioned to blade size.
431-1006-ND (26190) **$26.97**

7 piece Slotted and Phillips Precision Extra Long Blade Set

Slotted - 2.5 x 50, 2.5 x 100mm, 3.0 x 100, 3.0 x 150mm, 4.0 x 100, 4.0 x 150mm. Phillips: #0 x 75mm.
431-1007-ND (26092) **$30.38**

8 piece Precision Inch Size Hex Driver Set

Tip sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8".
431-1008-ND (26391) **$30.12**

7 piece Precision Metric Size Hex Driver Set

Tip sizes: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0mm.
431-1009-ND (26390) **$27.81**

8 piece Precision Inch Size Nut Driver Set

Sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4".
431-1011-ND (26591) **$42.32**

8 piece Precision Metric Size Nut Driver Set

Sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm.
431-1010-ND (26590) **$43.55**

Master Technicians Bench Top Set

50 precision drivers. **Slotted:** .08, 1.0, 1.2, 1.5, 1.8*, 2.0, 2.5, 3.0, 3.5, 4.0. **Phillips:** #000, #00, #0, #1; **Torx:** T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15‡, T20‡ **Metric Hex:** 1.5, 2.0, 2.5, 3.0, 4.0‡ **Inch Hex:** .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 **Metric Nut Drivers:** 1.5, 1.8* 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5. Chip lifter.

431-1053-ND (92190) **$240.62**

431-1051-ND (92092) ESD Safe **$321.90**

* Available only in 431-1053-ND Set
‡ Available only in 431-1051-ND Set

Security Bit Set

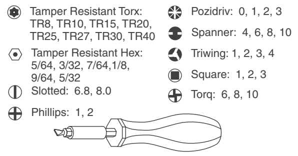
Tamper Resistant Torx: TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40
Tamper Resistant Hex: 5/64, 3/32, 7/64,1/8, 9/64, 5/32
Slotted: 6.8, 8.0
Phillips: 1, 2
Pozidriv: 0, 1, 2, 3
Spanner: 4, 6, 8, 10
Triwing: 1, 2, 3, 4
Square: 1, 2, 3
Torq: 6, 8, 10

39 piece set in molded storage box with hard-to-find security bit sizes. Includes: handle, 1/4" magnetic power tool adapter, and 1/4 socket bit holder.
431-1013-ND (71990) **$76.54**

MicroBit Set

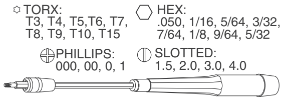

ESD handle. 27 piece set with molded storage box extension, ESD handle and assorted MicroBits.
431-1012-ND (75992) **$56.89**

6 Piece Ergonomic Grip Driver Set with Two Components

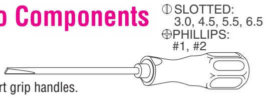

Comfort grip handles.
Hardened tool steel blades.
431-1019-ND (46094) **$28.98**

TORX Insert Bit Set

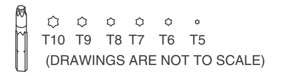
T10 T9 T8 T7 T6 T5
(DRAWINGS ARE NOT TO SCALE)

6 piece Small Torx insert bit set. Bits of CVM hardened tool steel. Smallest hard-to-find sizes on standard 1/4" Hex Drive. 25mm (1") length.
431-1017-ND (71570) **$11.62**

EZ-PIK Tweezers

Aven EZ-PIK Color Coded Tweezers will be the industry standard for easy identification of different tweezer types. Each different style is given a unique color for easy identification. All tweezers are Anti-Acid and Anti-Magnetic Stainless Steel. The set of six come in a stylish leather type pouch.

Pattern AA-SA Yellow

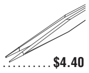

5" (130mm) long. Precise tip, fine finish for general assembly.

243-1053-ND (18013EZ) **$4.40**

Pattern OO-SA Red

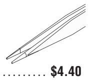

4 3/4" (120mm) long. Flat edge, heavy duty strong blades, tapering to regular strong points.

243-1052-ND (18032EZ) **$4.40**

Pattern 2A-SA Black

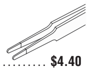

4 3/4" (120mm) long. Flat tips. Provides a large flat gripping surface

243-1050-ND (18049EZ) **$4.40**

Pattern 3C-SA Light Blue

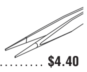

4 1/4" (110mm) long. Very sharp, superior finish. Excellent for assembly work.

243-1051-ND (18056EZ) **$4.40**

Pattern 5-SA Dark Green

4 1/4" (110mm) long. For extra fine work, long blades break sharply from body and taper to super fine points.

243-1054-ND (18062EZ) **$4.40**

Pattern 7-SA Orange

4 1/2" (115mm) long. Curved super fine points.

243-1055-ND (18072EZ) **$4.40**

E-Z Pik Tweezers Set 6 piece

Set includes all styles in a durable pouch.

243-1056-ND (18480EZ) **$26.39**

Ceramic Tweezers

AVEN Full Ceramic Tweezers: Good quality industrial tweezers. Large selection. Recommended for consumer electronics and all types of industrial applications. For working with acids (except HF). For SMD solder pot, high temperature exposure. Clean room approved. Can be sterilized, solder repellent.

Straight 1mm Serrated Tips

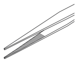

5" (130mm) long.

243-1067-ND (18801) **$92.96**

Straight 1mm Smooth Tips

5" (130mm) long.

243-1068-ND (18802) **$92.96**

Straight Very Fine Smooth Tips

5" (130mm) long.

243-1069-ND (18803) **$119.52**

Curved Shape, Fine Tips

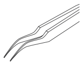

5" (130mm) long.

243-1070-ND (18804) **$119.52**

Accu-Tek Ceramic Tweezers: Lightweight, Zirconia replaceable ceramic tips attached to an aluminum body. Made from the finest steels. Perfectly balanced for a superior feel. Light weight with soft tension with accurately finished points. Recommended for work under high power magnification, aerospace and micro electronics and in applications where high precision is required. All Accutek precision tweezers are made from anti-acid, anti-magnetic stainless steel. Replacement tips available.

Pattern 71 - Flat Fine Tips

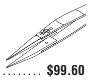

5-1/4" long.
1-1/4" long tip length.

243-1071-ND (18810) **$99.60**

Pattern 72 - Fine Tips

5-1/4" long.
1-1/4" long tip length.

243-1072-ND (18811) **$99.60**

Pattern 73 - Extra Fine Tips

5-1/4" long.
1-1/4" long tip length.

243-1073-ND (18812) **$99.60**

Pattern 74 - Fine Broad Tips

5-3/8" long.
1-5/8" long tip length.

243-1074-ND (18813) **$99.60**

Ceramic Tweezers w/ESD Safe Plastic Body

Straight Fine Tips

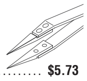

4-3/4" (120mm) long.
Lightweight and economical ceramic tipped tweezer

243-1075-ND (18820) **$5.73**

Curved Tips

4-3/4" (120mm) long.
Lightweight and economical ceramic tipped tweezer

243-1076-ND (18821) **$5.73**

Bent Tips

4-3/4" (120mm) long.
Lightweight and economical ceramic tipped tweezer

243-1077-ND (18822) **$5.73**

3 Piece Tweezer Set

4-3/4" (120mm) long.
Lightweight and economical ceramic tipped tweezers. Includes one straight, one curved and one bent.

243-1078-ND (18830) **$17.18**

Titanium Tweezers

Titanium tweezers are advantageous for use in the electronics and science industries due to lack of the shedding of particles, like the stainless steel tweezers. Anytime an abrasive substance is handled and microscopic particles are a detriment, titanium is a good choice. Titanium is non-magnetic therefore is extremely useful when handling magnetic materials, or when working in a magnetic field.

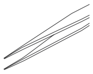

Pattern OO 4-3/4" (120mm) long.
Flat edges, heavy duty strong blades that taper to regular strong points.

243-1080-ND (18032TT) **$23.07**

Pattern OOD 4-3/4" (120mm) long.
Same as OO with serrated tips and grips.

243-1081-ND (18037TT) **$23.07**

Pattern AA 5" (130mm) long. For general assembly.
Very strong, straight, precise tips.

243-1082-ND (18013TT) **$23.07**

Pattern 1 4-3/4" (120mm) long.
General use. Strong blades with fine points.

243-1083-ND (18043TT) **$23.07**

Pattern 3 4-3/4" (120mm) long.
Excellent for assembly work. Very sharp.

243-1084-ND (18053TT) **$23.07**

Pattern 3C 4-1/4" (110mm) long.
Excellent for assembly work. Very sharp points.

243-1085-ND (18056TT) **$23.07**

Pattern 2 4-3/4" (120mm) long.
Tapered point for bending and handling small wires and parts.

243-1086-ND (18046TT) **$23.07**

Pattern 2A 4-3/4" (120mm) long.
Straight flat tips provide large flat gripping surface.

243-1087-ND (18049TT) **$23.07**

Pattern 4 4-1/4" (110mm) long. For extra fine work.
Blades taper sharply from body to very fine long rounded points.

243-1088-ND (18059TT) **$23.07**

Pattern 5 4-1/4" (110mm) long. For extra fine work.
Long blades break sharply from body and taper to super fine points.

243-1089-ND (18062TT) **$23.07**

Pattern 5A 4-1/2" (115mm) long.
Oblique fine points for greater visibility.

243-1090-ND (18065TT) **$23.07**

Pattern 6 4-1/2" (115mm) long.
Fine and angulated tips for hairspring or wire coiling.

243-1091-ND (18069TT) **$23.07**

Pattern 7 4-3/4" (120mm) long.
For assembly work, hand can rest on bench, curved super fine points.

243-1092-ND (18072TT) **$23.07**

6-pc Titanium Tweezer Set w/ Protective Pouch

Contains: • 2A • 3C • OO • AA • 5 • 7

243-1079-ND (18480TT) **$138.44**

Ergo Titanium Tweezers

Pattern OO-SA

Flat edges, heavy duty strong blades tapering to regular strong points. Stainless steel.

243-1096-ND (18032-ER) **$11.95**

Pattern 2A-SA

Straight, flat tips. Provides large flat gripping surface. Stainless steel.

243-1097-ND (18049-ER) **$11.95**

Pattern 3C-SA

Straight, ultra fine tips. Excellent for assembly work. Stainless steel.

243-1098-ND (18056-ER) **$11.95**

Pattern 5-SA

Long blades break sharply from body and taper to super fine points. For extra fine work. Stainless steel.

243-1099-ND (18062-ER) **$11.95**

Pattern 7-SA

Curved, super fine pointed tips.
For assembly work.

243-1100-ND (18072-ER) **$11.95**

5-pc ESD Safe Carbofib Tweezer Set

Five most popular carbofib tweezers in an elegant padded, wooden case.

Contains: • 2-CF • OO-CF • 2A-CF • 3C-CF • 5C-CF

243-1093-ND (18478) **$215.80**

Scalpel Handles and Blades

Fig. 1

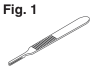

Fig. 2

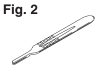

Fig. 3

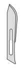

Fig. 4

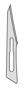

Fig. 5

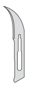

Fig. 6

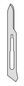

Fig. 7

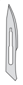

These high precision knives are designed for intricate detailed work. Ideal for precision cutting in microcircuitry, photography, art and more. Blade Material: 0.015" thick Stainless Steel, Non-sterile. Use the #31 Stainless Steel metal handles for blades #10, #11, #12 and #15. Use the #33 Stainless Steel metal handle for blade #23.

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
Stainless Steel Metal Handle				
1	Technik #31	243-1031-ND	4.45	44031
2	Technik #33	243-1032-ND	4.45	44033
Scalpel Blade (2 Per Tube)				
3	Technik #10	243-1033-ND	1.89	44041
4	Technik #11	243-1034-ND	1.89	44042
5	Technik #12	243-1035-ND	1.89	44043
6	Technik #15	243-1036-ND	1.89	44044
7	Technik #23	243-1037-ND	1.89	44045

Precision Tweezer Sets

5 Piece Precision Tweezer Set

Five most popular stainless steel tweezers. Supplied in an elegant padded, wooden case.

Contains: • OO-SA • OOD-SA • 3C-SA • 5-SA • 7-SA

243-1094-ND (18476USA) **$29.05**

6 Piece Technik Precision Tweezer Set

Six most popular stainless steel tweezers, finely crafted. Anti-glare finish to reduce eye strain. Hand finished points for accuracy. Supplied in a plastic pouch

Contains:
• OO-SA • OOD-SA • AA-SA • 3C-SA • 5-SA • 7-SA

243-1095-ND (18475USA) **$24.90**

Smart Tweezers

Features: • Fully Automatic Inductance, Capacitance and Resistance Measurements • DC/AC Voltage Measurements • Diode Polarity Test • Display of Active and Reactive Impedance Components • Analog Bar Graph • Automatic Selection of the Best Range

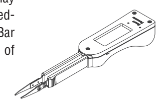

Tweezer with Straight Tip
243-1058-ND (18900)............................ **$456.50**

Tweezer with 1 Straight Tip and 1 Bent Tip
243-1059-ND (18901)............................ **$479.33**

Replacement Tip - Straight
243-1060-ND (18902)............................ **$58.08**

Replacement Tip - Bent
243-1061-ND (18903)............................ **$58.08**

Quick-Test Tweezers

Features:
• Accuracy matches or exceeds conventional professional devices • Measures voltage and checks operation of printed circuit boards • Precise tips handle components as tiny as 0.3mm • AC/DC voltage measurements • Displays active and reactive impedance components • AutoScan automatically identifies component and measures impedance • Light weight (under two ounces) • Display 2/23 digits LCD with max reading 2999, 5/56 digits LCD with max reading 5999

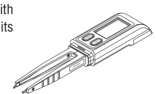

243-1109-ND (18910)............................ **$69.72**

Alignment Tool Kits

Includes all the trimmer/potentiometer and RF coil adjusting tools available.

Description	Digi-Key Part No.	Price Each	Aven Part No.
9-piece Anti-Static Alignment Tool Kit	243-1016-ND	11.42	13016
25-piece Master Alignment Tool Kit	243-1017-ND	42.41	13500

Tuning Tools, Tweezers, Knives and Blades

Fig. 1

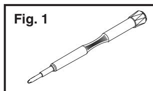

Fig. 2

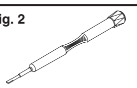

Fig. 3

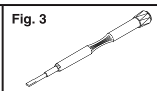

Fig. 4

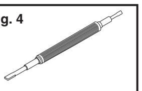

Fig. 5 - Knife

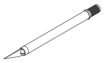

Fig. 6 - Knife Set

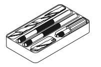

Fig. 7

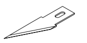

Fig. 8

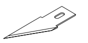

Fig. 9

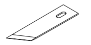

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
1	1.7 mm Phillips Blade	243-1011-ND†	8.67	13220
2	1.3 mm Flat Blade	243-1012-ND†	8.67	13221
3	2.6 mm Flat Blade	243-1013-ND†	8.67	13222
4	4-in-1 Reversible, (#0 and #1 Phillips, .9 mm and 1.8 mm Flat Blade)	243-1014-ND†	29.55	13230
5	Utility Knife with Rubber Grip	243-1005-ND	4.28	44011
6	3-Piece Knife Set (Light, Medium and Heavy Duty, 10 Asst. Blades)	243-1010-ND	16.87	44101
7	No. 2 Medium to Heavy Blade, 5 Pc.	243-1007-ND	2.01	44201
8	No. 11 Precision Blade, Stainless Steel, 5 Pc.	243-1015-ND	2.04	44205S
9	No. 24 Deburring Blade, 5 Pc.	243-1009-ND	1.94	44225

† Ceramic blade alignment tools for zero electromagnetic induction

ESD Mats and Hardware

Static Control Anti-Fatigue Mats

3M Anti-Fatigue Mats consist of a matrix of hollow cylinders that function like a spring when compressed. These mats provide a durable cushion that offers secure, stable footing and a unique energizing responsiveness. Their structure provides a stable surface supported by rubber cells that soften in response to surface activity. These cells provide the most effective cushioning solution because the 3M Static Control Anti-Fatigue Mats get softer as compressed, not harder like products made of foam. **Features**: • Color: Black • Resistance: Surface to Ground Snap: <1 x 10^6Ω, Surface to Ground: <2 x 10^6Ω (when connected through 3M Ground Cord 3040) • Temperature Use Range: -40°C ~ 82°C

See Digi-Key's website for detailed specifications and photos

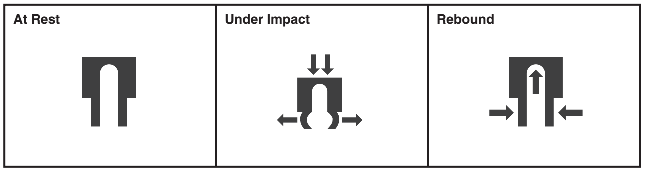

Description	Digi-Key Part No.	Price Each	3M Part No.
3 ft x 5 ft (0.9m x 1.5m)	SCP247-ND	385.98	9900
22 Inch, Octagonal Shape	SCP248-ND	128.09	9920

1864 Series Conductive Mat / Runner

1864 Floor Mat is a semi-flexible conductive floor mat that contains a rubber filler for resilience. It also has a textured surface for better traction. It includes two 3034 Snap Fasteners (installed) and one 15 ft. (3.0m) Ground cord with a 1MΩ resistor.

1864R Floor Runner is a 50 foot (15.24m) long runner of the 1864 mat material. It includes two 15 foot (3.0m) 3040 Ground Cords with 1MΩ resistor, five 3034 Snap Fasteners and one Snap Fastener Installation Tool.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mat, Black, 0.125 in. (3mm) 4ft. x 6 ft. (1.2m x 1.8m)	SCP209-ND	321.87	1864 (1/8x4x6)
Floor Runner, Black, 0.125 in. (3mm) 2ft. x 50 ft. (0.6m x 15m)	SCP210-ND	1207.69	1864R

Dissipative Mats

8200 Series: Vinyl mats are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat.

8200 Series Floor Mats: Includes one 15 foot (4.6m) 3040 Ground Cord and two 3050 Snap Fasteners (installed).

8210 Series Table Mats: Includes two 3M 3050 Snap Fasteners (installed) and one 3M 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8260 and 8280 Series Table and Floor Mats: Include two 3040 Ground Cords and two 3050 Snap Fasteners to be installed by the user.

8290 Series Floor Mats: No Hardware included

8800 Series: Rubber mats consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials.

8810 Series Table Mats: Includes two 3034 Snap Fasteners (installed) and one 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8840 and 8860 Series Table Mats: Includes two 3040 Ground Cords and five 3034 Snap Fasteners to be installed by the user.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mats			
Vinyl, Brown, 4 x 6 ft.	SCP214-ND	180.68	8201
Vinyl, Gray, 4 x 6 ft.	SCP215-ND	175.41	8203
Vinyl, Blue, 4 x 6 ft.	SCP216-ND	180.68	8204
Vinyl, Blue, 2 x 40 ft.	SCP280-ND	480.80	8284
Vinyl, Brown, 4 x 40 ft.	SCP281-ND	961.65	8291
Table Mats			
Vinyl, Brown, 2 x 4 ft.	SCP219-ND	71.90	8211
Vinyl, Gray, 2 x 4 ft.	SCP221-ND	71.90	8213
Vinyl, Blue, 2 x 4 ft.	SCP222-ND	71.90	8214
Vinyl, Blue, 2 x 24 ft.	SCP279-ND	316.43	8264
Rubber, Gray, 2 x 4 ft.	SCP224-ND	81.21	8810
Rubber, Blue, 2 x 4 ft.	SCP225-ND	81.21	8811
Rubber, Blue, 2 x 24 ft.	SCP282-ND	433.71	8841
Rubber, Blue, 3 x 24 ft.	SCP283-ND	780.66	8861

Field Service Kit

Static-Dissipative Portable Field Service Kit Includes:

• Static-dissipative work mat with two pockets, .024 inches x 2 feet x 2 feet (0.6mm x 61cm x 61cm) • Grounding cord assembly with alligator clip • Charge-Guard™ Series adjustable wrist strap

Description	Digi-Key Part No.	Price Each	3M Part No.
Field Service Kit	SCP124-ND	70.78	8501

Lightweight Field Service Kit

The small lightweight kit offers the same level of static control as the full-sized 3M 8501 Field Service Kit, yet is small enough to fit in a shirt pocket.

Kit Includes: • Static-dissipative work surface with pocket .015 inch x 15 inches x 20 inches (.38mm x 38.10cm x 50.80cm) • 2204 Adjustable Wrist Band • Lightweight Heavy-Duty Coiled Ground Cords: 2240 Wrist strap ground cord, 5 feet (1.52m); 2243 Extension ground cord, 5 feet (1.52m); 3063 Work surface ground cord 5 feet (1.52m) • 3038 Alligator Clip

Description	Digi-Key Part No.	Price Each	3M Part No.
Lightweight Field Service Kit	SCP182-ND	103.62	8505

Grounding System for Wrist Strap/Table Mat

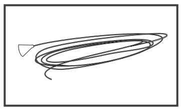

Easily snaps onto mats and runners; grounds two single conductor wrist straps. Comes complete with ring connector and a 15 foot (4.6m) ground cord. Ground cord has 1MΩ resistor for mat connection only.

SCP206-ND.. **$21.29**

Grounding Cord and Fasteners

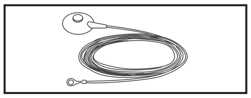

15 foot (4.6 meter) pre-installed male snap fastener with integral 1MΩ resistor on one end, solderless terminal on other end.

Description	Digi-Key Part No.	Price Each	3M Part No.
Grounding Cord	SCP114-ND	14.78	3040
Fastener, 10mm, Male (10 pieces)	SCP273-ND	16.94	3033
Fastener, 10mm, Female (10 pieces)	SCP274-ND	16.94	3034
Fastener, 10mm, Female	SCP275-ND	22.48	3050

Workstation Grounding Kits

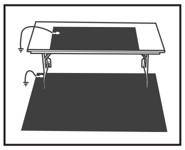

Grounding Kits provide the basic items needed to create a static-safe work environment They include a floor mat, table mat, adjustable wrist strap with grounding cord and accessories to properly connect all of the kit components.

Kit Includes: • Table Mat, 2 feet x 4 feet (.6m x 1.2m) • Floor Mat, 4 feet x 6 feet (1.2m x 1.8m) • 3M 3040 Ground Cord, 15 feet (4.6m) • 3M 3048 Grounding System for Wrist Strap/Table Mat • 3M 2214 Adjustable Wrist Strap

8020 Series Workstation Grounding Kit: The 3M 8020 Workstation Grounding Kits provide the complete static protection offered by all the 3M kits. Both the floor and table (8200) mats are made from soft three layer static dissipative material.

8030 Series Workstation Grounding Kit: These kits contain two different types of static control mats. The table mat is made of the soft three-layered, static dissipative 8200 material, while the floor (1864) mat is of the more rigid, conductive Velostat material.

Description	Digi-Key Part No.	Price Each	3M Part No.
Matching Table and Floor Mats			
Brown, 3 Layer Construction	SCP121-ND	463.27	8021
Gray, 3 Layer Construction	SCP123-ND	463.27	8023
Blue, 3 Layer Construction	SCP211-ND	463.27	8024
Colored Table Mat with Black Velostat Floor Mat			
Brown, 3 Layer Table Mat	SCP179-ND	444.84	8031
Gray, 3 Layer Table Mat	SCP180-ND	444.84	8033
Blue, 3 Layer Table Mat	SCP213-ND	444.84	8034

ESD Mats

Dualmat™ Static Dissipative Work Surface Material

The Dualmat is a static dissipative industrial grade elastomer designed for use on table and other grounded work bench surfaces.Mat material meets both the ANSI/ESD S20.20 and European IEC 61340-5-1 specifications.

Features: • Embossed finish • Reversible • .080 inch (2mm) thickness • .05 second, decay time • Low out gassing and VOC • Low abrasion • No vinyl monomers, or DOP • UV additives

Benefits: • One side colored other side black, ideal for fiber optics • Will withstand high temperature, solder, flux and harsh chemicals • Ideal for clean rooms and other controlled areas

Dimension (Inches)	Color	Digi-Key Part No.	Price Each	ACL Staticide Part No.
24 x 36	Green†	ST1051-ND	60.00	8185GM2436
24 x 48	Green†	ST1052-ND	80.00	8185GM2448
24 x 60	Green†	ST1053-ND	100.00	8185GM2460
24 x 72	Green†	ST1054-ND	120.00	8185GM2472
30 x 60	Green†	ST1055-ND	125.00	8185GM3060
30 x 72	Green†	ST1056-ND	150.00	8185GM3072
24 x 36	Light Blue	ST1033-ND	60.00	8085BM2436
24 x 48	Light Blue	ST1034-ND	80.00	8085BM2448
24 x 60	Light Blue	ST1035-ND	100.00	8085BM2460
24 x 72	Light Blue	ST1036-ND	120.00	8085BM2472
30 x 60	Light Blue	ST1037-ND	125.00	8085BM3060
30 x 72	Light Blue	ST1038-ND	150.00	8085BM3072
24 x 36	Royal Blue	ST1039-ND	60.00	8285RBM2436
24 x 48	Royal Blue	ST1040-ND	80.00	8285RBM2448
24 x 60	Royal Blue	ST1041-ND	100.00	8285RBM2460
24 x 72	Royal Blue	ST1042-ND	120.00	8285RBM2472
30 x 60	Royal Blue	ST1043-ND	125.00	8285RBM3060
30 x 72	Royal Blue	ST1044-ND	150.00	8285RBM3072
24 x 36	Dark Gray	ST1045-ND	60.00	8385DGYM2436
24 x 48	Dark Gray	ST1046-ND	80.00	8385DGYM2448
24 x 60	Dark Gray	ST1047-ND	100.00	8385DGYM2460
24 x 72	Dark Gray	ST1048-ND	120.00	8385DGYM2472
30 x 60	Dark Gray	ST1049-ND	125.00	8385DGYM3060
30 x 72	Dark Gray	ST1050-ND	150.00	8385DGYM3072

† Green Mats can be used to designate lead free work areas

ESD Mats and Hardware

Economy, Dual Layer, Rubber Table Mat

Dissipative Surface, Heat and Chemical Resistant

Economy Grade Rubber Material provides reliable path to ground, compatible for use with continuous monitors. Meets requirements of ANSI/ESD S20.20. Resistant to heat and chemicals, for use when soldering and other environments where heat or harsh chemicals are used.
Specifications: • Color: Dark Blue • Thickness: 0.080” (2mm)
Includes: • Ground Cord

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1126-ND	58.00	66184
2 x 4 (0.6 x 1.2)	16-1127-ND	77.50	66186
3 x 6 (0.91 x 1.8)	16-1128-ND	174.25	66189

Statfree® T2 Rubber Table Mats

These table top kits are perfect for individual workstation control. The mat rolls are used for cut-to-fit workstation control. Durable rubber material, dissipative on one side and conductive on the other — .060” (1.5mm) thick. Compatible for use with continuous monitors. Meets requirements of ANSI/ESD S20.20. Resistant to heat and chemicals, for use when soldering and other environments where heat or harsh chemicals are used.
Made in America.
Workstation kits include mat, common point ground cord and universal snap kit.
Note: Hardware not included with rolls.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Kits				
2 x 3 (0.6 x 0.91)	Blue	16-1097-ND	116.32	66040
2 x 4 (0.6 x 1.2)	Blue	16-1074-ND	144.47	66045
2 x 4 (0.6 x 1.2)	Dark Gray	16-1075-ND	144.47	66055
T2 Workstation Mat Rolls				
2 x 40 (0.6 x 12.2)	Blue	16-1072-ND	791.95	66070
2 x 40 (0.6 x 12.2)	Dark Gray	16-1073-ND	791.95	66080

Statfree® B Vinyl Table Mats

Smooth finish on one side and a non-glare finish on the other — .100" (2.54mm) thick. Meets requirements of ANSI/ESD S20.20.
Made in America.
Complete common point ground kit is included with table mat kits.
Note: Hardware not included with rolls.

Dimensions Feet (Meters)	Color	Kit Includes	Digi-Key Part No.	Price Each	Desco Part No.
Type B Mat Top Kits					
2 x 3 (.61 x .91)	Beige	Benchmat,	16-1042-ND	101.73	16201
2 x 3 (.61 x .91)	Blue	Ground Kit	16-1044-ND	101.73	16213
2 x 4 (.61 x 1.22)	Beige	Benchmat,	16-1043-ND	122.85	16202
2 x 4 (.61 x 1.22)	Blue	Ground Kit	16-1045-ND	122.85	16214

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
Type B Rolls				
2 x 40 (0.6 x 12.2)	Beige	16-1076-ND	606.81	16250
2 x 40 (0.6 x 12.2)	Blue	16-1077-ND	606.81	16260
2 x 40 (0.6 x 12.2)	Brown	16-1078-ND	410.00	16270
2.5 x 40 (0.76 x 12.2)	Beige	16-1079-ND	758.17	16255
2.5 x 40 (0.76 x 12.2)	Blue	16-1080-ND	758.17	16265
2.5 x 40 (0.76 x 12.2)	Brown	16-1081-ND	512.00	16275

K

Statfree® B2™ Vinyl Table Mats

The Statfree B2 worksurfaces provide a surface where electrostatic charges are limited, and a surface that will remove charges from all conductors.
Features:
• Excellent color stability • Durability • Non-humidity dependent • Compatible with continuous monitors
Specifications:
• Thickness: 0.060 inches (1.5mm), nominal ±10% • Color: Dark Blue with Black Bottom • Meets required limits of ANSI/ESD S20.20
Includes:
• Common point ground kit • Lifetime limited warranty.
Made in America

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1121-ND	38.18	66164
2 x 4 (0.6 x 1.2)	16-1122-ND	50.88	66166
2.5 x 5 (0.76 x 1.5)	16-1123-ND	79.50	66167
2.5 x 6 (0.76 x 1.8)	16-1124-ND	95.40	66168
3 x 6 (0.9 x 1.8)	16-1125-ND	114.48	66169

Statfree® EB Rubber Floor Mat

Features: • Excellent floor mat for worker comfort and productivity • Durable homogeneous rubber — .50” (12.7mm) thick • Ergonomic • Meets required limits of ANSI/ESD S20.20.
Made in America

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
3 x 5 (0.9 x 1.5)	16-1067-ND	311.14	40935

Statfree® CV Conductive Vinyl Floor Mat Kit

Excellent floor mat for hard surface and carpeted area using rolling chairs and carts. Durable and long lasting vinyl material; reversible — .125” (3.2mm) thick. Compatible with continuous monitors and meets required limits of ANSI/ESD S20.20.
Made in America
Ground kit is included with floor mat kits. Color: Black

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
CV Floor Mat Kit			
4 x 6 (1.2 x 1.8)	16-1071-ND	279.56	15006

Statfree® DPL *Plus*™ Floor Mat

Dual Layer, Vinyl, Conductive, Anti-Fatigue

Homogeneous vinyl laminated to a super resilient, double-thick rubber foam base. This conductive diamond plate surface offer high-tech look while providing traction. Yellow safety border provides high visibility and alerts employees to ESD controlled areas. This product meets the technical range recommended in ANSI/ESD S20.20 for ESD Floor.
Specifications: • Thickness: .450 inches (11.4mm) • Color: Black
Made in America

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1118-ND	181.49	40979
3 x 4 (0.91 x 1.2)	16-1119-ND	261.03	40980
3 x 5 (0.91 x 1.5)	16-1120-ND	306.39	40981

Statfree Z2™ Dissipative 3 Layer Vinyl Table Mat

Statfree Z2 Material is a highly effective three-layer material. Its durable vinyl top layer makes it ideally suited for use as an ESD protective bench mat. Its highly conductive middle layer provides a faster discharge path to ground. The cushioned dissipative bottom layer provides excellent protection against physical damage, and makes it easier to pick up small parts. It is compatible with continuous monitors and meets required limits of ANSI/ESD S20.20.
Made in America
Note: Kits include common point ground kit.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	Blue	16-1092-ND	109.76	42460
2 x 4 (0.6 x 1.2)	Blue	16-1093-ND	130.96	42465
2 x 3 (0.6 x 0.91)	Gray	16-1094-ND	109.76	42470
2 x 4 (0.6 x 1.2)	Gray	16-1095-ND	130.96	42475
Universal Snap Kit for Mats				
Universal Snap Kit for Mats, 6 piece (connects wrist strap to mat)		16-1012-ND	4.99	09864
Push and Clinch Snaps				
Pronged 10mm Stud Snap		16-1052-ND	4.06	09861
Pronged 10mm Socket Snap		16-1053-ND	4.06	09863

Statfree i™ Conductive Ergonomic Rubber Interlocking Floor Mat System

This material is designed to be used as a stand alone mat, runner or entire floor. The unique ergonomic support cells provide extra comfort and prevent the mat from shifting on the floor. Its interlocking strip can be easily trimmed to give clean beveled edges. Meets required limits of ANSI/ESD S20.20.
Color: Black **Made in America**

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1090-ND	113.14	40930
3 x 4 (0.91 x 1.2)	16-1091-ND	193.15	40931

Ground Point for Bench Mat and Two Wrist Straps without Resistor

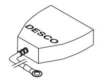

Description	Digi-Key Part No.	Price Each	Desco Part No.
10mm Socket, 10' (3.05m) Cord	16-1050-ND	27.96	09820
10mm Stud, 15' (4.57m) Cord	16-1051-ND	28.48	09825

3M

Static Control Wrist Straps, Heel Straps and Testers

3M™ Premium Performance Adjustable Wrist Straps

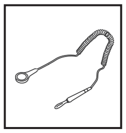

Locking clasp adjusts to most any size wrist, providing comfortable, 360-degree protection. Band is made of silver-plated, monofilament, continuous thread woven together with elastic nylon to allow full conductivity, comfort and reliability, while providing rapid and continuous drain for static charge.

3M™ Economy Performance Adjustable Wrist Straps

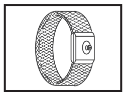

This wrist strap provides a cost-effective method of grounding personnel. Band is made of stretch weave fabric that is blue in color with white trim.

3M™ Disposable Wrist Strap 2209

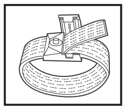

The 3M™ Disposable Wrist Strap 2209 is ideally suited for shipment along with static sensitive components to provide protection at the receiving end. It may also be used for short-term use in the plant for visitors and others who don't need the durability of a reusable strap.

Description	Digi-Key Part No.	Price Each	3M Part No.
3M Premium Performance Adjustable Straps			
Wrist Strap with Coiled Cord, 5'	SCP141-ND	19.85	2214
Wrist Strap with Coiled Cord, 10'	SCP142-ND	27.40	2224
Replacement Wrist Bands	SCP144-ND	7.91	2204
3M Economy Adjustable Wrist Straps			
Adjustable Wrist Strap, with 5' Coiled Grounding Cord and Alligator Clip	SCP172-ND	9.39	2272
Adjustable Wrist Strap	SCP173-ND	3.60	2271
3M Disposable Wrist Strap			
Disposable Wrist Strap	SCP145-ND	1.29	2209

Wrist Strap Grounding System

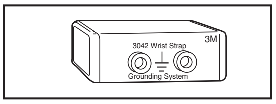

Wrist Strap Grounding System with two banana jacks and one 10 foot (3.0m) grounding cord.

SCP115-ND.. **$24.34**

Static Control Shoe Grounding Assemblies (Heel Straps)

Long lasting Static Control heel straps provide static protection while retaining worker mobility. **Features**: • Increase personnel mobility • One size fits most shoes • Extra long contact ribbon accommodates most boots **Note**: The Grounding Assemblies are not to be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.

Description	Digi-Key Part No.	Price Each	3M Part No.
With 1mΩ Resistor	SCP163-ND	9.37	2051

Charge-Guard™ 746 Wrist Strap Tester

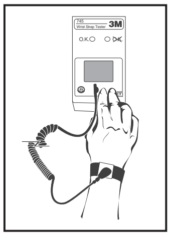

The 746 wrist strap tester is a compact unit much like the 745 but it operates on either battery or AC power. It can be used in production facilities to field service locations. The unit comes complete with an AC adapter, lithium battery and wall mounting kit.

SCP235-ND.. **$225.72**

Power Supply for 746 Wrist Strap Tester

SCP278-ND.. **$32.72**

Wall Mount Wrist Strap and Footwear Tester

The 3M™ 740 Wrist Strap Tester is an AC-powered unit designed to be wall-mounted in a production facility for daily testing of employees' static control wrist straps. Simple to operate, with red and green LEDs giving a clear "go" or "no go" indication. Comes with the base unit, output connector, wall-mounting system and template, cover for the wrist strap plug-in jack and the AC/DC transformer.

Dimensions: 5.43" x 7.48 " x 2.09 " (13.8cm x 19.0cm x 5.3 cm)

SCP204-ND..**$477.19**

The 3M™ Shoe Electrode 741 is a test plate that connects to the 3M Wrist Strap Tester 740 to test heel straps.

SCP277-ND..**$116.32**

Model 749 Pedestal Stand

The 749 Pedestal Stand can be used to provide support for the 3M Wrist Strap and Footwear Tester 740 and the 3M Wrist Strap Tester 746.

SCP267-ND.. **$158.76**

Wrist Strap Workstation Monitor

The 3M™ 724 Wrist Strap Workstation Monitor continuously verifies the resistance of the operator and work surface ground connections. The monitor uses a reliable resistance method that actually includes the operator's skin resistance to determine if the system is operating properly. If the operator's resistance exceeds 10 megohms or 35 megohms, or the wiring connections exceed 3.7 megohms, audible and visible alarms are triggered. The unit will also warn of potentially dangerous low-resistance situations. The monitor uses the light and compact dual conductor wrist strap. Dual conductors provide the resistance circuit that is monitored as well as provide grounding redundancy. If one conductor fails, the other will still function to prevent sensitive components from being exposed to static. Comes complete with a quick connect/disconnect 732 Remote Jack and mounting hardware.

Dimensions: 6.5" x 3.25" x 1.5" (162mm x 82mm x 38mm)

Description	Digi-Key Part No.	Price Each	3M Part No.
Workstation Monitor Kit with Hardware	SCP226-ND	157.63	724
Dual Conductor Fabric Wrist Strap Adjustable	SCP232-ND	9.78	2368
Dual Conductor Coiled Cord, 5'	SCP233-ND	19.71	2360
Dual Conductor Coiled Cord, 10'	SCP234-ND	22.88	2370
Dual Conductor Coiled Cord, 20'	SCP246-ND	40.27	2371
Dual Conductor Coiled Cord, 5', R/A	SCP240-ND	29.35	2360R
Dual Conductor Coiled Cord, 10', R/A	SCP241-ND	32.99	2370R
Dual Conductor Coiled Cord, 20', R/A	SCP242-ND	40.27	2371R
Dual Conductor Coiled Cord, 5', R/A	SCP243-ND‡	26.27	2391
Dual Conductor Coiled Cord, 10', R/A	SCP244-ND‡	32.03	2392
Dual Conductor Coiled Cord, 20', R/A	SCP245-ND‡	36.14	2393

‡ 3.4mm Plug-Not for use with SCP226-ND – Recommended for use with other manufacturers' monitors that use a larger input jack design.

Iron Man™ Workstation Monitors

Features: • Overvoltage monitoring of electronics assemblies • Soldering iron overvoltage failure alarm • Audio and visual alarms **Iron Man Plus™**: With Iron Man Plus Monitors, an operator, a dissipative mat, and most importantly, all board assembly in progress are covered

Description	Digi-Key Part No.	Price Each	3M Part No.
Iron Man, Soldering Iron Monitor	SCP258-ND	151.81	CTC330-WW
Iron Man Plus, Soldering Iron Monitor	SCP259-ND	232.45	CTC331-WW

Ground Man, Ground Monitors for Tools

Features: • Ground Man Monitors measure ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can easily be adjusted at anytime in a range of 1Ω ~ 20Ω • Ground Man Monitors provide logic signal to the tool to shut it down when any of the grounds fail

Ground Man Plus: With the Ground Man Plus Monitors, you would cover all important ground connections in the tool and an operator

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Man Ground Monitor	SCP260-ND	203.55	CTC333-WW
Ground Man Plus Ground Monitor	SCP261-ND	261.74	CTC334-WW
Replacement Terminal Board w/ Jack	SCP262-ND	14.65	CTA251

WS Aware® Dual Workstation Monitors

Ultra-Low Voltage WS Aware Monitors provide only 25 millivolts of signal to any part of the wrist strap at anytime, even when it is open.

Features: • Dual wrist strap monitor • Body voltage monitoring • Metal ground monitoring • EMI on metal ground • Programmable thresholds • Individually Calibrated • Big Brother™ generator detection

Description	Digi-Key Part No.	Price Each	3M Part No.
Dual ESD Monitor	SCP251-ND	531.72	CTC061-3-WW
Dual ESD Monitor with Big Brother	SCP252-ND	598.50	CTC061-3-BB-WW
Replacement Jacks	SCP253-ND	17.48	CTA245

Ground Master® Equipment Ground Monitor

Features: • Ground Master measures ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can be easily adjusted at anytime in a range of 1Ω ~ 20Ω • Each ground connection is protected by individual fuses to protect equipment in case of mis-wiring of neutral, power and ground • Ground Master RT provides relay closure and logic signal to the tool to shut it down when any of the grounds fail • Ground Master monitors EMI on each ground and indicates EMI status and more

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Master Ground Monitor	SCP263-ND	714.97	CTC065-RT

(Continued)

3M Static Control Wrist Straps, Heel Straps and Testers *(Cont.)*

Ground Pro™ Ground Integrity Meter

Features: • Broadband EMI measurements • Audio alarms • Ground Master measures ground impedance in accordance with requirements of ANSI 6.1 and ANSI/ESDA S.20.20 standards • Ground Pro provides accurate ground impedance measurement in the presence of noise and ground currents; something a regular multimeter cannot do.

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Pro Ground Integrity Meter	SCP264-ND	1211.91	CTM051

ESD Pro Event Detector

Locate and identify ESD events in your process

The ESD Pro is a hand-held indicator of ESD events that detects and counts the discharges as well as shows the relative strength of each ESD event. It offers variable settings of the discharge alarm threshold to detect and count only those discharges that exceed the threshold.

Specifications:
• Sensitivity: 1 ~ 1,000V • Threshold: Adjustable • Discharge Polarity: Both • Event Count: 4-digit counter • Event Magnitude: LED Bar • ESD Event Indication: LED bar, buzzer

Description	Digi-Key Part No.	Price Each	3M Part No.
Event Detector	SCP266-ND	1211.91	CTM082 ESD-PRO

NEW! EM Eye Meter

ESD Event, Electromagnetic Field and RF Signal Measurements

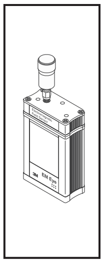

The EM Eye Meter is one of the smallest and most versatile instruments for measuring EM fields, RF signals and ESD events determined by the sensor connected to the EM Eye Meter. This meter allows you to expand your instrumentation at a lower cost since adding a sensor is less expensive than purchasing a completely new instrument. Weighing just 9 3/4 ounces, the EM Eye Meter can literally fit in the palm of your hand or in your shirt pocket. The touch screen and color display make this instrument very easy to use.

Specifications: • Overall Functions: • ESD event detector • Electromagnetic field (EMF) meter • Power density meter • Effective isotropically radiated power (EIRP) meter • Radio frequency (RF) meter • Audio Indicators: • Speaker: beep or analog audio with volume control • External Data Storage: • MiniSD™ Card, FAT32 format • Recording Interval: Peaks: 1-360 seconds Average signals: 0.1-360 seconds • Operating Temperature: 10°C ~ 40°C • Display: TFT RGB LCD 240 x 320 pixels • Size: 65mm W x 32mm D x 105mm L (2.6 inches x 1.3 inches x 4.2 inches)

Description	Digi-Key Part No.	Price Each	3M Part No.
With EMI Sensor	SCP295-ND	3669.75	CTM048-28
With RF Sensor	SCP296-ND	3669.75	CTM048-29
With ESD Sensor	SCP297-ND	3669.75	CTM048-21

ScanEM® Probes

Features:
• Pinpoint exact sources of EMI • Detect electric and magnetic fields separately • Small size • Self-contained • LED color bar • Will not disturb circuit operation • RF output to spectrum analyzer and oscilloscope • DC output to a multimeter and more
Accessory Kit Includes:
• Cable SMB/BNC 6' (1.8m) • BNC to Male N Adapter • BNC to Banana Plug Adapter

Description	Digi-Key Part No.	Price Each	3M Part No.
ScanEM-C Near-field Probe	SCP255-ND	846.51	CTK015
ScanEM-QC Near-field Probe	SCP256-ND	968.31	CTK019
ScanEM-C/QC Accessory Kit	SCP257-ND	114.24	CTA101

Electromagnetic Compliance Training Kit

With CTK031, following the clearly illustrated step-by-step instructions, you can demonstrate and experience: • The difference between electric and magnetic fields • The effectiveness of a ferrite as a high frequency noise suppressor • The effectiveness of a shielding material • Ground plane currents • The location of hidden traces generating emissions • Pinpoint sources of emission and more

Description	Digi-Key Part No.	Price Each	3M Part No.
EMC Training Kit	SCP254-ND	1090.11	CTK031

718 Static Sensor

The 718 Static Sensor is a portable, handheld instrument designed for measuring voltages associated with electrostatic charge. Its intended use is for measuring the amount of voltage, in a range from 0 ~ 20 kilovolts, associated with an electrostatic charge buildup on a surface.
The 718A Air Ionizer Test Kit is a set of accessories for use in conjunction with the 3M 718 Static Sensor. Their intended use is for verifying the operation of air ionizers by measuring the neutralization time for a static charge placed on a stationary metal plate.

Description	Digi-Key Part No.	Price Each	3M Part No.
718 Static Sensor	SCP294-ND	627.37	718
718A Air Ionizer Test Kit	SCP276-ND	319.64	718A

DESCO

Static Control Wrist Straps, Heel Straps and Testers

Adjustable Wrist Straps

Elastic wrist straps have silver impregnated nylon knitted inside with a soft lightweight fabric, allowing softness, comfort and flexibility. May be fitted to any size. 4mm snap. **Made in America. Metal wrist straps** are made of non-allergenic stainless steel for reducing reactions and providing long service life.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Elastic Band Wrist Strap			
With 6' (1.8m) Coil Cord, Blue	16-1087-ND	33.28	09070
With 12' (3.66m) Coil Cord, Blue	16-1086-ND	35.30	09069
Straps Only (no cord)	16-1085-ND	12.91	09028
Replacement Strip for 09028	16-1066-ND	7.77	09029
Economy Adjustable Wrist Strap with 6' (1.8m) Coiled Cord	16-1021-ND	31.76	09039
Metal Band Wrist Strap			
With 6' (1.8m) Coiled Cord, Black	16-1006-ND	55.03	09085
Strap Only (extra large, no cord)	16-1008-ND	39.96	09042

Jewel® MagSnap Adjustable Wrist Strap

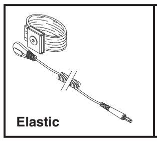
Elastic

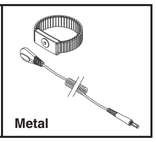
Metal

Jewel MagSnap wrist straps meet or exceed the requirements of ANSI/ESD S20.20 and ANSI/ESD S1.1. The patented revolutionary magnetic interconnect technology creates magnetic connection between wristband and coil cord. **Made in America.**

Description	Digi-Key Part No.	Price Each	Desco Part No.
Adjustable Elastic with 6' (1.8m) Coil Cord	16-1111-ND	27.06	09184
Adjustable Metal with 6' (1.8m) Coil Cord, Sapphire	16-1112-ND	38.75	09198

Dual ESD Ground Point Under Bench Mount

Description	Digi-Key Part No.	Price Each	Desco Part No.
With 10' (3.05m) Cord	16-1055-ND	25.52	09740

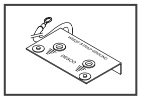

Foot / Heel Grounders

Features: • Exceptionally tear resistant dual layer rubber with inner scrim • Hook and loop fastening assembly • 8 strand nylon polyester grounding tab • Will not mark shoes **Made in America**

Description	Digi-Key Part No.	Price Each	Desco Part No.
Adjustable Hook and Loop Heel Strap with 1MΩ Resistor	16-1024-ND	16.65	17200
Heel Grounder with 1MΩ Resistor	16-1068-ND	9.64	07588

Foot Grounders, Full Coverage

The 1727x Foot Grounders provide contact with the ESD floor both under the foot's sole as well as the heel area, providing a more continuous and reliable path-to-ground.

Made in America

Description	Digi-Key Part No.	Price Each	Desco Part No.
Foot Grounder with 1MΩ Resistor, Small	16-1113-ND	9.99	17270
Foot Grounder with 1MΩ Resistor, Medium	16-1114-ND	9.99	17271
Foot Grounder with 1MΩ Resistor, Large	16-1115-ND	9.99	17272

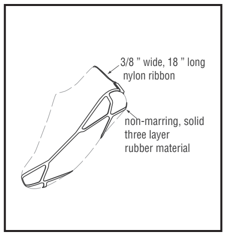
3/8 " wide, 18 " long nylon ribbon
non-marring, solid three layer rubber material

Wrist Strap and Footwear Combo Tester with Stand or Footplate

Battery powered 9V tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High. **Made in America.**
Wrist Strap Range:
750KΩ ~ 10MΩ
Footwear Range:
750KΩ ~ 100MΩ

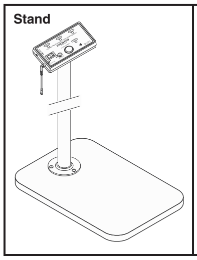
Stand

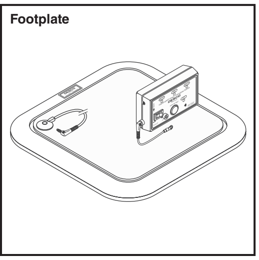
Footplate

Description	Digi-Key Part No.	Price Each	Desco Part No.
Combo Tester with Stand	16-1084-ND	596.59	19252
Combo Tester with Footplate	16-1098-ND	535.28	19253

(Continued)

DESCO Static Control Wrist Straps, Heel Straps and Testers *(Cont.)*

Wrist Strap Tester

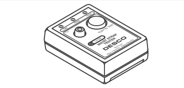

Battery powered 9 volt tester that tests wrist straps with a single touch at the workstation.
Test results include Fail Low, Pass and Fail High. 800KΩ ~ 10MΩ.
Made in America

Description	Digi-Key Part No.	Price Each	Desco Part No.
Touch Tester, 9VDC	16-1089-ND	140.13	19240

Jewel® Mini Continuous Monitor

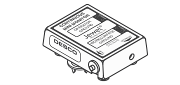

Ensures ESD protected workstation. Provides true 100% continuous monitoring; cannot be fooled, no false alarms. Small size takes up minimal work surface area.
Size: 2.77" x 2.07" **Made in America**

Description	Digi-Key Part No.	Price Each	Desco Part No.
Jewel Mini Monitor,120V, Sapphire	16-1083-ND	215.26	19212

Dual Operator Continuous Monitor with Satellites

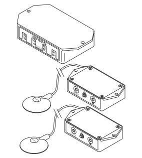

Continuously monitors the grounding integrity of two operators and two ESD worksurfaces path to ground. The monitor will provide instantaneous notification of static control equipment failures and eliminates the need of costly wrist strap logging record keeping. No user adjustment required: The continuous monitor is drift-free and designed to be insensitive to the effects of squeezing or stretching the coil cord. **Made in America.**

Description	Digi-Key Part No.	Price Each	Desco Part No.
Dual Operator Continuous Monitor with Satellites, 120V	16-1117-ND	243.11	19232

Multi-Mount Continuous Monitor

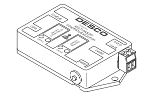

Continuously monitors the integrity of one operator and one mat. The monitor will provide virtually instantaneous notification of static control equipment failures, eliminating the need of periodic testing and costly record keeping. **Made in America.**

Description	Digi-Key Part No.	Price Each	Desco Part No.
Multi-Mount Continuous Monitor, 120V	16-1116-ND	130.42	19226

3M Static Control Shielding Bags and Labels

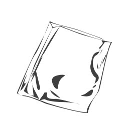

Economy Static Shielding Bags

1900 Series Metal-In: Use these more economical Static Shielding Bags for less demanding applications where reuse and high durability are not a prime consideration. The metal-in aluminum vapor coating is on a thinner 0.48 mil polyester as opposed to the 0.92 mil polyester in the 2100 series.

Economy ZipBag Static-Shielding Bags

1910 Series Metal-In: The 1910 features a dual track closure for easy opening and closing.

Cushioned Static-Shielding Bags

2120R Series Metal-Out: The open cell cushioning structure provides physical shock protection even when punctured. The 5-layer construction of the 2120R protects against direct discharge, triboelectric charge and static fields. The inside layer, next to the components, is a smooth static-dissipative polyethylene liner.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	3M Part No.
1900 Series Metal-In Transparent Shielding Bags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP153-ND	2.65	9.54	1900 3" x 5"
4 x 6 (10.16 x 15.24)	SCP154-ND	3.12	11.23	1900 4" x 6"
4 x 24 (10.16 x 60.96)	SCP155-ND	10.11	36.38	1900 4" x 24"
4 x 30 (10.16 x 76.20)	SCP156-ND	12.49	44.95	1900 4" x 30"
5 x 8 (12.70 x 20.32)	SCP157-ND	4.43	15.93	1900 5" x 8"
6 x 10 (15.24 x 25.40)	SCP158-ND	5.79	20.83	1900 6" x 10"
8 x 10 (20.32 x 25.40)	SCP159-ND	7.20	25.92	1900 8" x 10"
8 x 12 (20.32 x 30.48)	SCP160-ND	7.90	28.42	1900 8" x 12"
10 x 14 (25.40 x 35.56)	SCP161-ND	11.23	40.41	1900 10" x 14"
12 x 16 (30.48 x 40.64)	SCP162-ND	15.28	55.01	1900 12" x 16"
1910 Series Metal-In Shielding ZipBags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP165-ND	3.60	12.94	1910 3" x 5"
4 x 6 (10.16 x 15.24)	SCP166-ND	4.19	15.08	1910 4" x 6"
5 x 8 (12.70 x 20.32)	SCP167-ND	5.97	21.49	1910 5" x 8"
6 x 10 (15.24 x 25.40)	SCP168-ND	7.88	28.37	1910 6" x 10"
8 x 10 (20.32 x 25.40)	SCP169-ND	9.78	35.19	1910 8" x 10"
10 x 12 (25.40 x 30.48)	SCP170-ND	13.29	47.83	1910 10" x 12"
12 x 16 (30.48 x 40.64)	SCP171-ND	20.62	74.23	1910 12" x 16"
2120R Series Metal-Out Cushioned Static Shielding Bags				
6 x 7 (15.24 x 17.78)	SCP270-ND	31.48	113.33	2120R 6" X 7"
8 x 7 (20.32 x 17.78)	SCP272-ND	39.80	143.26	2120R 8" X 7"
8 x 11 (20.32 x 27.94)	SCP271-ND	49.76	179.12	2120R 8" X 11"
11 x 12 (27.94 x 30.48)	SCP268-ND	67.50	243.00	2120R 12" X 11"
14 x 15 (35.56 x 38.10)	SCP269-ND	96.40	347.02	2120R 14" X 15"

Clear Anti-Static Tape

Size	Digi-Key Part No.	Price Each 1	Price Each 5	3M Part No.
Unprinted				
1/2" x 72 yards	3M40A-ND	12.69	11.60	40 X 1/2"
1" x 72 yards	3M40B-ND	25.36	23.19	40 X 1"
Pre-printed with Static Symbol				
1/2" x 72 yards	3M41A-ND	12.69	11.60	40PR (Printed) X 1/2"
1" x 72 yards	3M41B-ND	25.36	23.19	40PR (Printed) X 1"

Labels

Fig. 1

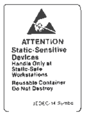
ATTENTION
Static-Sensitive Devices
Handle Only at Static-Safe Workstations
Reusable Container Do Not Destroy
JEDEC-14 Symbo

Fig. 2

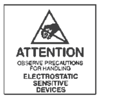
ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Description Size - Inches (mm)	Quantity (per roll)	Digi-Key Part No.	Price Each	3M Part No.
Fig. 1				
(JEDEC-14) Orange†• 1.75 x 2.5 (44.45 x 63.5)	500	SCP129-ND	29.80	7101
(JEDEC-14) Yellow†Δ 1.75 x 2.5 (44.45 x 63.5)	500	SCP128-ND	28.24	7102
Fig. 2				
(Mil. Std. 129J) Yellow†• 2 x 2 (50.80 x 50.80)	500	SCP127-ND	29.80	7201
(Mil. Std. 129J) Yellow†Δ 2 x 2 (50.80 x 50.80)	500	SCP126-ND	28.23	7202
(Mil. Std. 129J) Yellow†• 4 x 4 (101.60 x 101.60)	250	SCP130-ND	37.37	7203

† With Black type • Reusable Δ Destructible

Mini Air Ionizer 960

The 960 Mini Air Ionizer is a small and versatile blower available for equipment or local area ionization. Its small size makes it ideal for use in those situations where space is at a minimum.
Note: Wall transformer sold separately

SCP285-ND **$482.48**
SCP286-ND (Wall Transformer for 960) **$52.64**

Ionized Air Blowers

The 963E Benchtop Air Ionizer includes a universal power transformer, to convert local electrical power into DC 24V (power line cord not included).

SCP287-ND **$543.44**

Overhead Air Ionizer 991

Features: • Input Voltage: 100 ~ 230VAC, 50/60Hz • Input Current: 0.4A maximum, with North American Power Cord • Dimensions: 44" x 6" x 4" (111.7cm x 15.2cm x 10.1cm) • Certifications: cULus, TUV-GS, CE and C-Tick
Please see Digikey's website for detailed specifications

SCP249-ND **$1043.44**
SCP250-ND (Replacement Filters - 3 pack) **$9.46**

DESCO Static Control Shielding Bags and Labels

Statshield® EMI/RFI ESD Moisture Barrier Bags

This bag combines the properties of MOISTURE-VAPOR-BARRIER with EMI-RFI-ESD shielding. Manufactured from a Type 1 Class N652-260M film which is qualified to MIL-B-81705- Rev C Type I.
Made in America

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
6 x 10 (15.24 x 25.40)	16-1016-ND	7.23	20.82	13808
10 x 12 (25.40 x 30.48)	16-1018-ND	13.13	37.78	13816
12 x 16 (30.48 x 40.64)	16-1019-ND	20.73	59.65	13824
18 x 24 (45.72 x 60.96)	16-1020-ND	43.78	125.97	13832

Statshield® ESD Shielding Bags – Metal Out

ESD shielding bags for safely storing and transporting ESD sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-PRF-81705D, EIA541. Superior durability at a low cost.
Made in America

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1056-ND	3.71	9.54	13010

(Continued)

DESCO

Static Control Shielding Bags and Labels *(Cont.)*

Statshield® ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting ESD sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-B-81705C. Superior durability at a low cost. **Made in America.**

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1027-ND	2.71	7.80	13405
4 x 6 (10.16 x 15.24)	16-1028-ND	3.06	8.79	13415
5 x 8 (12.70 x 20.32)	16-1029-ND	4.86	13.98	13430
6 x 10 (15.24 x 25.40)	16-1030-ND	5.81	16.73	13445
8 x 10 (20.32 x 25.40)	16-1031-ND	8.31	23.91	13460

Statshield® Zipper-Style ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting ESD sensitive electronic components and assemblies. Features a reclosable polyethylene zipper for safe and easy opening and reclosing of bag. Meets or exceeds one of more of the following standards: electrical and physical requirements of ANSI/ESD S20.20, Mil-PRF-81705D Type III, EIA 541, EIA 625, MIL-STD-1686 and EIA 583. **Made in America.**

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1032-ND	4.50	12.94	13605
4 x 6 (10.16 x 15.24)	16-1033-ND	5.83	16.76	13615
5 x 8 (12.70 x 20.32)	16-1034-ND	8.50	24.45	13630
6 x 10 (15.24 x 25.40)	16-1035-ND	10.19	29.32	13645
8 x 10 (20.32 x 25.40)	16-1036-ND	14.44	41.54	13660

Static Label for Packaging

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Static Attention labels used for sealing Shielding Bags and marking ESD Containers.
Made in America.
Color: Yellow/Black

Description	Digi-Key Part No.	Price Each	Desco Part No.
2" x 2" (50.8mm x 50.8mm) 500 labels	16-1001-ND	19.97	06722

Static Control Pump Bottles and Accessories

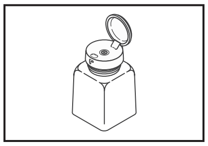

Menda® One-Touch Pump Bottles

Description	Digi-Key Part No.	Price Each	Desco Part No.
	Printed Bottles		
Pure-Touch, "Acetone", 4oz.	16-1129-ND	18.56	35395
Pure-Touch, "Isopropanol", 4oz.	16-1130-ND	18.56	35396
	Unprinted Bottles		
One-Touch, 4oz.	16-1139-ND	16.29	35305
One-Touch, 6oz.	16-1140-ND	16.79	35309
One-Touch, 8oz.	16-1141-ND	17.06	35312
Take-Along, 4oz.	16-1136-ND	24.56	35702
	Printed with Static Symbol		
Dissipative Wash Bottle, 8oz.	16-1142-ND	13.38	35359

Menda® Brushes and Accessories

Fig. 1

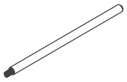

Fig. 2

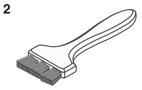

Fig. 3

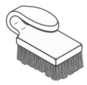

Fig. 4

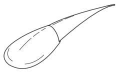

Fig. 5

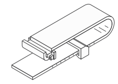

Fig. 6

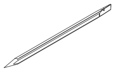

Fig.	Description	Digi-Key Part No.	Price Each	Desco Part No.
		Conductive Brushes		
1	Round, Firm, 1/4" Brush	16-1133-ND	11.34	35690
2	Flat, Firm, 2" Brush	16-1134-ND	19.74	35693
3	Curved Handle, Firm Brush	16-1135-ND	28.84	35695
		Accessories		
4	Wire Threader for Harness	16-1138-ND	4.95	35250
5	Hand Sleeving Cutter	16-1137-ND	7.64	35175
6	Nylon Hvy. Duty Spudger, 5-1/2" Long	16-1131-ND	2.24	35621
6	Nylon Soldering Tool, 6" Long	16-1132-ND	1.84	35622

3M

ESD Card Carriers

Single Card Carriers

- Single card carriers protect individual PCB's from static and physical damage during storage and transport.
- Interiors are lined with dissipative foam cushioning.
- The lid of each carrier can be modified for identification labels or company logos.
- The 12 compartment tray is a molded ESD safe tray for transporting components within the plant or for storing components during PCB assembly.

Description	Digi-Key Part No.	Price Each	3M Part No.
Card Carrier 10" x 8" x 1.25" with Hinged Lid	SCP237-ND	25.65	8520
Card Carrier 12" x 9" x 1.25" with Hinged Lid	SCP238-ND	31.88	8521
Card Carrier 18" x 17" x 2" with Hinged Lid	SCP239-ND	65.04	8522
Card Carrier 10" x 8" x 2" with Hinged Lid	SCP190-ND	29.77	8523
Velostat™ Single Device Carrier 1.55" x 1.01" x 0.46"	SCP131-ND	6.00/10	5701

ACL Staticide®

Static Control Cleaning Products

General Purpose Staticide

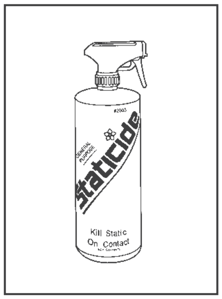

For Non-Porous Surfaces:
Solves static related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging.
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components.
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving.
- Data processing "glitches", memory loss, data errors, paper jams.

ST1002-ND (1 quart)... **$10.75**

ST1059-ND (24 Individual Wipes)................................ **$7.65**

Heavy Duty Staticide

For Porous Surfaces:

- Ideal for eliminating costly static problems on carpeting.
- Ideal for eliminating jamming or slipping of materials during printing, packaging or converting.
- Ideal for eliminating ignition of combustible vapors, dust or solvents causing fire or explosion.

ST1003-ND (1 quart)... **$17.35**

ST1001-ND (4oz. Spray Pump)... **$6.10**

Mat and Table Top Cleaner

Non-abrasive, non-streaking and non-flammable wipes/cleaner ideal for general use on work stations, table tops and anti-static mats.
It effectively removes dirt without degrading the surface's anti-static properties.

MTT20-ND (Wipes 20 count)... **$10.00**

Anti-Glare Screen Cleaner

Perfect for monitors and screens, won't streak or stain. 4oz. bottle with pump.

ST1025-ND... **$4.90**

Notebook / Laptop Cleaning Wipes

Designed exclusively for all notebook computer screens to remove fingerprints, ink, nicotine and other contaminants. 50 pre-saturated wipes in a handy dispenser.

ST1020-ND... **$12.15**

Anti-Static Starter Kit

This compact kit contains staticides, cleaner, lotion, swabs and wipes for all of your everyday static problems.

ST1032-ND... **$24.95**

Weller® 0051502699 Circuit Board Vise

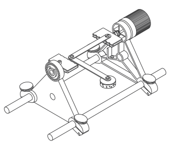

Features:

- Complete work center for placing, soldering and desoldering printed circuit boards
- Spring clamps will hold work piece in place securely
- Rotates through 360°, allowing work performance at any convenient angle
- Adjustable features allow handling of variety of circuit board sizes
- Maximum surface: 6-1/4"/160 mm x 9-1/8"/235 mm • 0051502699 is ESD SAFE

Description	Digi-Key Part No.	Price Each	Weller Part No.
Circuit Board Vise	0051502699-ND	51.91	0051502699

NEW! WHP 200 Infrared Under Board Heater

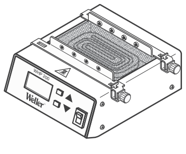

Features:

• Designed to be used on small multilayer PCBs to minimize the risk of thermal damage • Perfect for rework operations on digital camera, mobile phones, MP3 players and PDA pcbs • The infrared plate provides fast, precisely controlled heating to create an even substrate temperature • The heating plate comes complete with pcb board holder so there is no need to buy additional accessories • Set and actual temperatures digitally displayed for added process control

Description	Digi-Key Part No.	Price Each	Weller Part No.
Infrared Under Board Heater	WHP200-ND	670.00	WHP200

Thermal Tweezers

Tweezers will work with EC, WD and WR3 series units.

Description	Digi-Key Part No.	Price Each	Weller Part No.
SMT Thermal Tweezers with Stand	0053313399-ND	198.45	WTA50SET
Tip, 1mm Thermal Tweezers, 2 piece	0054414199-ND	16.19	WT1
Tip, 3mm Thermal Tweezers, 2 piece	0054414699-ND	16.19	WTA2
Tip, 6mm Thermal Tweezers, 2 piece	0054414799-ND	16.18	WTA3
Tip, 12.5mm Thermal Tweezers, 2 piece	0054414399-ND	29.48	WT4

Micro Digital Rework Soldering Station

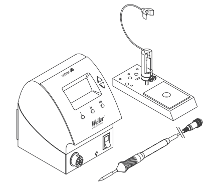

Features:

- 3 "radio buttons" allows pre-set of frequently used temperature settings • Setback, lockout, temperature window, F/C switching, standby, auto-off time
- The pencil powers down when placed in the holder to extend tip life

Specifications:

- Soldering Pencil: WMRP
- Temperature Range: 150°F ~ 850°F (177°C ~ 454°C)
- Voltage Input/Output: 120V/24V
- Supplied Tip: RT3
- Temperature Accuracy: ±17°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering and Rework Station	WD1000M-ND	523.95	WD1000M
Tip, RT1 Needle Tip	0054460199-ND◆	32.44	0054460199
Tip, RT2 0.8mm Point Tip	0054460299-ND◆	32.44	0054460299
Tip, RT3 1.3mm Chisel Tip	0054460399-ND◆	32.44	0054460399
Tip, RT4 1.5mm Chisel Tip	0054460499-ND◆	32.44	0054460499
Tip, RT5 0.8mm Chisel Bent, 30°	0054460599-ND◆	32.44	0054460599
Tip, RT6 1.2mm Round Bevel, 45°	0054460699-ND◆	32.44	0054460699
Tip, RT7 2.2mm Knife Tip, 45°	0054460799-ND◆	34.07	0054460799

◆ ***RoHS Compliant***

WRS1002X Electronically Controlled Desoldering Station

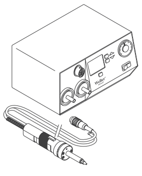

Features:

- Vacuum is generated with a self-contained pump
- 80 watts of power for faster heat up and better performance
- A wide range of DX Series desoldering tiplets available
- Digital process for exact temperature set, you control the process
- 80 watt desoldering pencil with internal disposable solder collection tube
- Safely and efficiently removing through hole components from PCB's
- Vacuum delay feature prevents clogging

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Desoldering Station 80W	WRS1002X-ND	903.00	WRS1002X
Collection Tube for DXV80	0058741815-ND	7.30	0058741815
Desolder Tip, for DXV80 2.3 x 1.0mm	DX112-ND	13.07	DX112
Desolder Tip, for DXV80 2.5 x 1.2mm	DX113-ND	13.07	DX113
Desolder Tip, for DXV80 3.3 x 1.8mm	DX114-ND	13.07	DX114

WES51 and WESD51 Soldering Stations

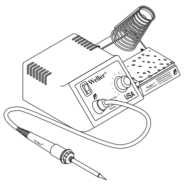

Features and Benefits:

• Cordless temperature lockout to prevent operators from raising the temperatures to levels higher than specified for the board or component. Gives you control over the process • Cordless Tip Temperature Calibration, which provides the user with the capability of resetting station temperature readings to variations in tip sizes and styles • Quick heat-up and temperature recovery allows continuous production soldering • Slim, comfortable hand piece reduces operator fatigue • Accuracy within 9°F (5°C)

Temperature Range: 350°F ~ 850°F (177°C ~ 454°C) • ESD Safe to protect sensitive components • Uses ET Series Tips

WES51-ND	Analog 50 Watt Soldering Station	**$124.95**
WESD51-ND	Digital 50 Watt Soldering Station	**$173.25**
PES51-ND	Replacement Iron	**$39.77**
BA60-ND	Replacement Barrel Nut Assembly for PES50 and PES51	**$6.51**

Digital Soldering Stations

WD1001 Includes:

WD1 power unit, WMP soldering pencil, WDH20 iron stand and sponge, NT1 supplied tip

WD1000HPT Includes:

WD1M power unit, WP120 soldering pencil, WDH10T workstand and sponge, XTB tip included

Features:

• 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display displays more information at a glance • Micro pencil with short tip to grip (37mm) puts you close to the work • High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30 ~ 80 degrees • ESD safe to protect sensitive components **Temperature Range:** 150°F ~ 850°F (177°C ~ 454°C) **Temperature Accuracy:** ±9°F (±5°C)

WD1001

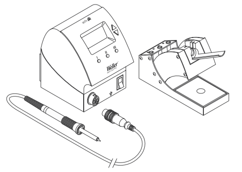

0052917099 — For use with WD2/WD2M

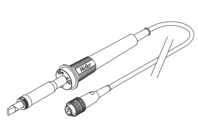

Replacement Tips for WMP

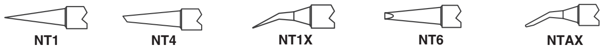

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Station 85 Watt with WMP	WD1001-ND	313.95	WD1001
Digital Solder Station, WP100, Pencil 120V	WD1000HPT-ND✔	599.00	WD1000HPT
Dual Digital Solder Unit 160 Watt without Iron	WD2-ND†	302.40	WD2
Dual Channel, Micro Digital Power Rework Unit, 120V	WD2M-ND	346.50	WD2M
Iron Stand with Sponge for WMP	WDH20-ND	40.56	WDH20
Soldering Iron 65 Watt with NT1 Tip	WMP-ND	113.40	WMP-ND
WSP150 Heavy Duty Soldering Pencil, 150 Watt, for use with WD2/WD2M	0052917099-ND	165.00	0052917099

✔ ***NEW!*** † Power Unit only. Soldering pencils and stands sold separately.

Description	Tip Dimension (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
Replacement Tips					
Micro	0.25	7.40	NT1-ND	9.97	NT1
Micro	0.25	8.45	NT1S-ND	9.97	NT1S
Round	1.20	9.90	NT4-ND	9.97	NT4
Bent Round	0.40	8.15	NT1X-ND	11.97	NT1X
Chisel	1.60	9.45	NT6-ND	9.97	NT6
Chisel	1.60	8.40	NTA-ND	9.97	NTA
Chisel	2.40	7.35	NTB-ND	9.97	NTB
Chisel	3.20	7.75	NTC-ND	9.97	NTC
Bent Chisel	1.60	8.61	NTAX-ND	11.97	NTAX
Replacement Parts for WSP150					
Chisel	4.7	—	0054445299-ND	7.78	0054445299
Chisel	6.7	—	0054445199-ND	7.78	0054445199
Chisel	9.3	—	0054445099-ND	7.78	0054445099

Controlled-Output Soldering Station WTCPT Weller's Work Horse

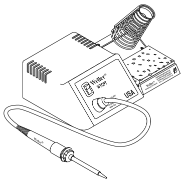

Specifications:

• Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron • Special "closed loop" method of controlling maximum tip temperature to protect temperature sensitive components • Power unit housing features impact resistant plastic for durability • Quick disconnect plug for soldering iron and lighted on/off switch • Separate conductor grounds iron tip and terminates at third pin of power cord • PT series soldering tips come in a variety of shapes and sizes in three standard

Temperature Ranges: 600°F (316°C), 700°F (371°C) and 800°F (427°C)

• Uses PT series tips

Description	Digi-Key Part No.	Price Each	Weller Part No.
Complete Station 24V Output	WTCPT-ND	156.45	WTCPT
Replacement Soldering Iron	TC201T-ND	81.90	TC201T

WR3000M Rework Station

All parts shown are included in Rework Station. Accessories also sold separately.

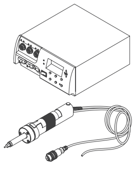

0051319099-ND

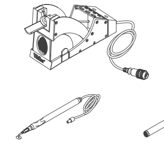

0052918499-ND

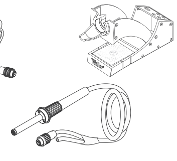

0052711699-ND

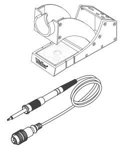

0052918099-ND

WR3000M Includes: HAP200: Hot air pencil, WP80: Soldering iron, DSX80: Desoldering iron, WVP: Vacuum pickup tool **Features:** • 400 watts of power over 3 independently controlled channels • Air and vacuum ports allow the use of up to 3 tools simultaneously • Compatible with high speed micro tools WMRP and WMRT **Temperature Range:** 150°F ~ 850°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Rework Station with Tools	WR3000M-ND	1899.00	WR3000M
Accessories			
DSX Desoldering Iron, 80W	0051319099-ND	225.75	0051319099
WVP Vacuum Pick-up Tool	0052918499-ND	64.57	0052918499
HAP200 Hot Air Pencil	0052711699-ND	275.10	0052711699
WP80 Soldering Iron, 80W	0052918099-ND	113.40	0052918099
Cleaning Kit for DS80	0051312499-ND	15.42	0051312499

Description	Tip Dimension (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
Replacement Tips for DXV and DSX					
Eccentric	2.90	23	0051314799-ND	13.07	0051314799
Eccentric	1.5	23	0051314899-ND	13.07	0051314899
Eccentric	1.1	31	0051315199-ND	13.07	0051315199
Eccentric	2.49	22	0051315299-ND	13.07	0051315299

Digital Soldering Stations

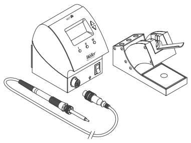

WD1002 Includes: • WD1 power unit • WP80 soldering pencil • WDH10 Iron stand and sponge • LTB Supplied Tip **Features:** • 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display, displays more information at a glance • High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30° ~ 80° • ESD safe to protect sensitive components **Voltage Input/Output:** 120V/24V **Temperature Range:** 150°F ~ 850°F

Replacement Tips for WSP80 and WP80

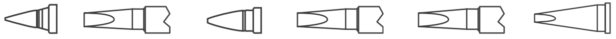

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Unit 85 Watt without Iron	WD1-ND†	196.35	WD1
Micro Digital Rework Power Unit, 120V	WD1M-ND	245.70	WD1M
80W Soldering Pencil for Silver Series Soldering Stations	WSP80-ND ***NEW!***	113.40	WSP80
Iron Stand with Sponge for WSP80	WDH10-ND	40.56	WDH10
Iron Stand for WSP80 Series	WPH81-ND	24.45	WPH81
Barrel Nut Assembly for WSP80	WS102-ND	7.02	WS102
80W Soldering Pencil with Short Tip-To-Grip (WP80)	0052918099-ND	113.40	0052918099
Digital Soldering Station 80W with WP80 Pencil	WD1002-ND	313.95	WD1002
Short Tip Retainer Assembly for WP80	0058744845-ND	10.55	0058744845
Long Tip Retainer Assembly for WP80	0058744846-ND	10.55	0058744846
120W Soldering Pencil WP120	0052919399-ND	199.00	0052919399
Soldering Pencil Stand for WP120	0052919499-ND	259.00	0052919499

† Power Unit only. Soldering pencils and stands sold separately.

Description	Tip Dimension (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
WP80 Replacement Tips					
Round	0.25	10.90	LT1-ND	3.90	LT1
Chisel	0.8	10.90	LTH-ND	3.90	LTH
Round	3.2	10.90	LTCS-ND	3.90	LTCS
Chisel	1.2	18.50	LTK-ND	3.90	LTK
Chisel	1.6	9.70	LTA-ND	3.90	LTA
Chisel	2.4	10.90	LTB-ND	3.90	LTB
WP120 Replacement Tips					
Chisel	1.6	39	0054470199-ND	12.00	0054470199
Chisel	3.2	39	0054470299-ND	12.00	0054470299
Chisel	1.6	36	0054470399-ND	12.00	0054470399
Chisel	2.4	36	0054470499-ND	12.00	0054470499

Dual Micro Digital Rework Station

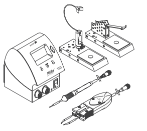

WD2000M Includes: • Power Unit • WMRP and WMRT Soldering Pencils • WMRH Iron Stand **Features:** • 3 "radio buttons" allows pre-set of frequently used temperature settings • Setback, lockout, temperature window, F/C switching, standby, auto-off time • Tweezers are automatically switched off when placed in the WMRTH holder • ESD safe to protect sensitive components **Voltage Input/Output:** 120V/24V **Temperature Range:** 150°F ~ 850°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Dual Micro Digital Rework Station with Irons	WD2000M-ND	908.25	WD2000M
Tweezer set with WMRTH Stand and RTW2 Tip Set	0051317399-ND	320.25	0051317399
Micro Soldering Pencil for WMRS (WMRP)	0052917199-ND	123.90	0052917199
Micro Soldering Holder/Sponge for WDH50 (WMRP)	0051515699-ND	91.35	0051515699
RTW1 Tip Set for WMRT Tweezers 0.2mm	0054465199-ND	68.13	0054465199
RTW2 Tip Set for WMRT Tweezers 0.7 x 0.4mm	0054465299-ND	68.13	0054465299
RTW3 Tip Set for WMRT Tweezers 3.0 x 0.7mm	0054465399-ND	80.85	0054465399
RTW4 Tip Set for WMRT Tweezers 5.99 x 0.7mm	0054465499-ND	80.85	0054465499

Accessories

Fig. 1

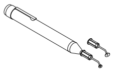

Fig. 2

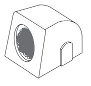

Fig. 3

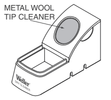

Fig. 4

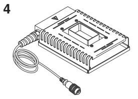

Fig. 5

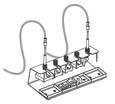

Fig. 6

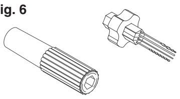

Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
1	Vacuum Pick-up Tool	WLSK200-ND	51.24	WLSK200
2	WDH Dry Cleaning System	0051512599-ND	12.60	0051512599
3	WDC Dry Cleaning System with Wool	0051512499-ND	16.80	0051512499
—	Replacement Brass Wool, 2/pack, (for use with WDC)	0051384099-ND ***NEW!***	5.25	0051384099
—	Solder Bath, 80W (for use with WD2 and WD2M Stations)	0052704099-ND	215.25	0052704099
4	Solder Bath, 150W (for use with WD2 and WD2M Stations)	0052704299-ND	319.20	0052704299
5	SMT Chip Removal Nozzle Kit	0051515599-ND	315.00	0051515599
6	Cleanout Tool for Desoldering Pencils	0051350099-ND	15.43	0051350099
—	Polishing Bar for Soldering Tips	WPB1-ND	8.40	WPB1
—	Tip Tinner for Solder Tip, 1.5oz.	0051303199-ND	8.40	0051303199

Professional Soldering Irons

WP25, WP30, WP35 Series Irons

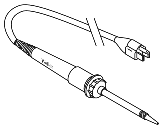

Features:
• Fixed temperature units • Ideal for a wide variety of electronic tasks • Interchangeable heater elements - Single handle plus three different heating elements gives the user a trio of irons for different jobs • Quick change knurled collar makes changing heater simple • Lightweight handle with cushioned grip • For additional safety, all irons come with 3-wire power cord • Irons use ST series iron plated tips for long life and greater soldering efficiency • UL Listed
Important: *Use only Weller tips • ST series tips*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering Iron with ST3 Tip, 25 Watt	WP25-ND†	38.92	WP25
Soldering Iron with ST3 Tip, 30 Watt	WP30-ND†	42.07	WP30
Soldering Iron with ST3 Tip, 35 Watt	WP35-ND†	49.00	WP35
Knurled Tip Retaining Nut	KN60-ND	3.15	KN60

† Soldering Iron Stand is sold separately.

Hot Air Rework Station and Nozzles

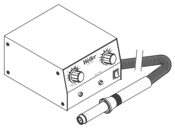

Specifications:
• 650W • Temperature Range: 122°F ~ 1022°F • Voltage: 120V

Features:
• Compact design maximizes workspace efficiency • Controlled output maintains set temperature regardless of air flow setting • Temperature and air flow are controlled independently • Standby button allows you to power down to low settings when not in use • Includes a rest support for the hand piece • Nozzles sold separately

Description	Digi-Key Part No.	Price Each	Weller Part No.
Self-Contained Hot Air Station, 120V	WHA900-ND	576.45	WHA900
Hot Air Nozzle, 44 PIN PLCC	0058736814-ND	69.74	0058736814
Hot Air Nozzle, 84 PIN PLCC	0058736833-ND	87.46	0058736833
Hot Air Nozzle, 20 PIN PLCC	0058736839-ND	66.95	0058736839
Hot Air Nozzle, 68 PIN PLCC	0058736804-ND	69.74	0058736804
Hot Air Nozzle, 14 PIN SOIC-SO8	0058736843-ND	66.95	0058736843
Hot Air Nozzle, 20 PIN SOIC	0058736842-ND	66.95	0058736842
Hot Air Nozzle, SOT23	0058736870-ND	66.95	0058736870

Replacement Tips for Irons

Description	Tip Dimension (mm)	Digi-Key Part No.	Price Each	Weller Part No.
PT Series Tips for TC201T Iron				
Screwdriver, 700°F (371°C)	1.57	PTA7-ND	3.30	PTA7
Screwdriver, 800°F (427°C)	1.57	PTA8-ND	3.30	PTA8
Screwdriver, 700°F (371°C)	3.18	PTC7-ND	3.30	PTC7
Screwdriver, 800°F (427°C)	3.18	PTC8-ND	3.30	PTC8
Conical Flat, 700°F (371°C)	.79	PTF7-ND	3.30	PTF7
Conical Flat, 800°F (427°C)	.79	PTF8-ND	3.30	PTF8
Long Conical, 700°F (371°C)	.38	PTS7-ND	3.30	PTS7
Long Conical, 800°F (427°C)	.38	PTS8-ND	3.30	PTS8
EPH Series Tips for EC1302B Iron				
Micropoint Tip	.38	EPH101-ND	5.35	EPH101
Screwdriver Tip	1.57	EPH106-ND	5.35	EPH106
ET Series Tips for EC1201A				
Screwdriver Tip	1.57	ETA-ND	3.67	ETA
Screwdriver Tip	2.36	ETB-ND	3.67	ETB
Screwdriver Tip	.79	ETH-ND	3.67	ETH
Conical Tip	.79	ETP-ND	3.67	ETP
Single Flat Tip	.40	ETU-ND	3.67	ETU
Long Conical Tip	.80	ETO-ND	3.67	ETO
Tips for Professional Soldering Irons — ST Series Tips for WP25, WP30, WP35 Irons				
Screwdriver Tip	1.57	ST1-ND	3.44	ST1
Screwdriver Tip	4.65	ST4-ND	3.44	ST4
Single Flat Tip	.79	ST5-ND	3.44	ST5
Screwdriver Tip	.79	ST6-ND	3.44	ST6

Weller® Soldering Irons

Specifications: • Specifically designed for use at electrostatic free work stations • Non-burnable silicon rubber cord • Lightweight, high impact plastic handle • Blue plastic meets requirements for ESD, Electrostatic Dissipative Materials • Uses Weller EM series tips made of copper with heavy iron, nickel and chromium plating for long life • UL listed
NOTE: EC1302B and EC1201A work with DEC1001 and EC1002.

Fig. 1

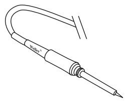

• Micro-soldering tool • Stainless steel heater element construction • Fine tip iron for light duty applications

Fig. 2

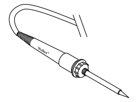

• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

Fig. 3

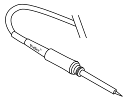

• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
1	20W Iron with EPH 101 Tip	EC1302B-ND	123.62	EC1302B
2	40W Soldering Iron with ETA Tip	EC1201A-ND	123.62	EC1201A
3	50W Soldering Iron with ETA Tip	PES50-ND	41.75	PES50
—	Replacement Sponge	TC205-ND	1.09	TC205

portasol® Cordless Soldering Irons and Tips

Features:
75 Watt • Gives the ultimate in portable power and convenience for all soldering jobs • Provides 25 ~ 75 watts of power • Adjustable temperatures up to 850°F (454.4°C) • Refueled with standard butane refills • Unit lasts for up to an hour of continuous use
125 Watt • Self-igniting portable butane heat tool • Anti-static soldering • "Auto Switch" safety shut-off iron plated tips, and built-in butane filter • Rugged stainless-steel body provides up to 125 watts of power • Adjustable temperature up to 1,076°F (530°C) • Fuel level is clearly visible through a window on the body of the tool **Note:** *Butane not included (Butane is not sold by Digi-Key)*

75 Watt

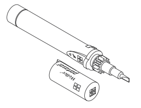

125 Watt

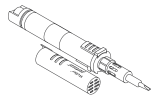

Description	Digi-Key Part No.	Price Each	Weller Part No.
75 Watt			
Cordless Soldering Iron with PPT6 Tip, 2.4mm	P2C-ND	37.38	P2C
Single Flat, Solder Tip, 1.0mm	PPT1-ND	8.72	PPT1
Double Flat, Solder Tip, 2.4mm	PPT6-ND	8.72	PPT
125 Watt			
Cordless Soldering Iron	PSI100C-ND	63.06	PSI100C
Single Flat, Solder Tip, 1.0mm	PSI1-ND	11.15	PSI1
Single Flat, Solder Tip, 2.4mm	PSI2-ND	11.15	PSI2
Single Chisel, Solder Tip, 1.0mm	PSI5-ND	11.15	PSI5
Hot Blower Tip	PSI9-ND	11.15	PSI9

Pro Series Soldering Iron and Tips

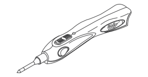

Specifications: • Operating Temperature: 900°F • 18 Watts
Features: • Super fast heat up • Red power-on LED changes to green when working temperature is reached • LED work light illuminates working surface in low-light conditions • Co-molded grip for a comfortable feel • Designed to be self-standing • Tips use a phono jack for easy tip exchange • 7 year limited warranty

Description	Digi-Key Part No.	Price Each	Weller Part No.
High Performance Soldering Iron	WPS18MP-ND	26.99	WPS18MP
Conical Replacement Tip, Size .0312 in.	WPS10-ND	7.99	WPS10
Chisel Replacement Tip, Size .125 in.	WP S11-ND	7.99	WPS11

Flux Solvent Dispenser

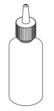

- Both static safe and standard hold 2 ounces
- Avoid spills and waste and place flux precisely where needed
- Squeeze bottles dispense one drop of liquid resin, flux, oil solvent through stainless steel needles
- Static dissipative models protect static-sensitive components

Description	Digi-Key Part No.	Price Each	Weller Part No.
Flux Dispenser, 0.020" (.51mm) Needle	FD2-ND	2.89	FD2

Tools

WSA350

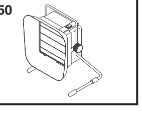

WSA350: • Removes flux fumes from the bench top by drawing the smoke through an activated carbon filter • Voltage: 120VAC • Air Consumption: 87-107 CFM • Sound Level: 45-50dB (A) • ESD Safe • UL and cUL Listed • Includes: Bench top smoke absorber and one WSA350F filter

Description	Digi-Key Part No.	Price Each	Weller Part No.
Benchtop Smoke Absorber	WSA350-ND	52.50	WSA350
Carbon Replacement Filters (3 pack)	WSA350F-ND	5.51	WSA350F

OK Industries
Division of Jonard Industries Corp.

RoHS COMPLIANT

Benchtop Fume Absorber

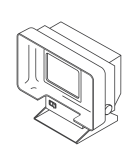

Aerodynamic hood design effectively draws solder fumes away from the work area. Carbon filters traps up to 80% of the flux fumes. Compact size and adjustable for convenient placement near work area. Optional articulating arm with bench mount clamp converts benchtop fume absorber to suspended fume absorber for positioning directly over the work area. An inexpensive alternative to individual fume extraction.

Description	Digi-Key Part No.	Price Each
Benchtop Fume Absorber, 115V with 3 Filters	K416-ND	101.20
Benchtop ESD Safe Fume Absorber, 115V with 3 Filters	K417-ND	123.00
Replacement Carbon Filter Set, 3 Pieces	K419-ND	18.95
Benchtop Fume Absorber with Articulating Arm, 115V	K498-ND	228.65
Benchtop ESD Safe Fume Absorber with Articulating Arm, 115V	K499-ND	254.00

Vacuum Desolder Pumps

RoHS COMPLIANT

Features durable corrosion resistant plastic construction and corrosion treated springs with uniform reset pressure and cushioned shock reduction. Fitted with replaceable tips.

Fig. 1

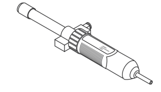

Fig. 2

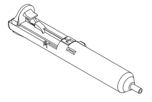

Fig.	Description	Digi-Key Part No.	Price Each
1	High-Vac Desoldering Pump with Tip, Blue	K412-ND	18.75
	Replacement Tip for K412-ND, K500-ND	K413-ND	3.00
	ESD Safe Desoldering Pump with Tip, Black	K414-ND	23.75
	Replacement ESD Safe Tip for K414-ND	K415-ND	5.00
2	Desoldering Pump	K500-ND	11.83

Paladin Tools®

RoHS COMPLIANT

Desoldering Pump

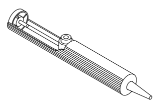

Desoldering tool removes solder with simple pushbutton operation.
A conductive tool for anti-static operation.
Replaceable tips available.

PA1700-ND	Desoldering Pump	**$19.99**
PA2712-ND	Replacement Tip	**$5.99**

CHIPQUIK SMD Removal Kits

CHIP QUIK SMD rework products are designed as a low cost way to rework SMD components including QFP and PLCC packages, with very low temperature (300°F). SMD1 contains everything needed for removing SMD components with either convection (hot air) or conduction (solder iron). Use SMD16, SMD32, and SMD291 for larger jobs which require more CHIP QUIK material and flux. SMD2000/SMD6000 kits are complete solder/desolder rework kits for safely removing SMD components, cleaning the pads, placing component and reapplying solder safely with low operating temperatures. Approved by many top industry PC board manufacturers for reworking faulty components, without the need for specialized solder equipment. **CHIP QUIK** removal alloy-no lead formula has been tested for rework on PC Boards that were manufactured with lead and no-lead solders with excellent results on both. It has also been successfully tested for SMD removal on all the major no-lead solders that are presently available in the industry.
SMD2000 Contents (In durable plastic case):
• Removal Alloy SMD 4.5 with instructions • Solder Paste: No clean in 1cc syringe with nozzle and cap • 3 feet silver solder • Paste Flux: No clean flux in 1cc syringe with nozzle and cap • Liquid Flux Remover/Cleaner: 5cc • Probe Kit • Solder Wick: No clean • Handi-Vac • 2 Acid Brushes • Precision Tweezers • 6 Cleaning Wipes • 10 Swabs • 6 Alcohol Pads
SMD6000 Contents (In durable plastic case):
• Removal Alloy SMD 8 feet with instructions • Solder Paste • Solder Wire • Paste Flux: For Lead Free Solder, 5cc syringe with handle and tip • Liquid Flux Remover/Cleaner: 1oz. container • 4 Probe Kit • Solder Wick: No clean, 5 feet • Handi-Vac Tool • 2 Acid Brushes • 2 Precision Tweezers • 6 Cleaning Wipes • 10 Swabs • 12 Alcohol Pads **V8910 Contents:** • Vacuum Pen includes 4 tips of various sizes

Fig. 1
Instructions included with all kits.

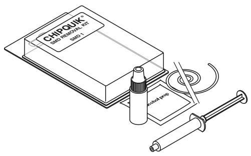

Fig. 2

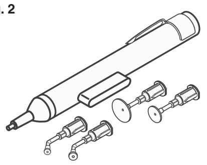

Fig.	Description	Digi-Key Part No.	Price Each	Chip Quik Part No.
1	For 8-10 SMD's	SMD1-ND	13.50	SMD1
—	Complete Rework Kit, Contents Listed	SMD2000-ND	105.00	SMD2000
	Complete Solder/Desolder No Lead Rework Kit	SMD6000-ND◆	135.00	SMD6000
Replacement Parts				
2	Tool Vacuum Pick and Place, 6 pieces	V8910-ND	38.93	V8910
—	Industrial Pack Replacement Low Temperature Solder 16'	SMD16-ND	98.00	SMD16
	Industrial Pack Low Temperature No Lead Solder 16'	SMD16NL-ND◆	82.50	SMD16NL
	Industrial Pack Replacement Low Temperature Solder 32'	SMD32-ND	190.00	SMD32
	Industrial Pack Low Temperature No Lead Solder 32'	SMD32NL-ND◆	150.00	SMD32NL
	Removal Alloy 4.5', No Lead	SMD4.5NL-ND◆	27.00	SMD4.5NL
	Removal Alloy 8', No Lead	SMD8NL-ND◆	52.50	SMD8NL
	Flux in 1cc Syringe, No Lead	SMD1NL-ND◆	13.50	SMD1NL
	Handi-Vac Kit	HVPB6-ND◆	14.63	HVPB6

◆ *RoHS Compliant*

ITW Chemtronics® Desoldering Braid

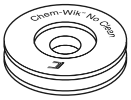

Pure copper braid construction coated with high purity rosin, quickly and thoroughly removes solder. Use Chem-Wik® or Soder-Wick® to remove components, SMDs, ICs, blobs and clean up poor solder connections.

Meets or Exceeds these Requirements: • Mil-F-14256F Type R • NASA NHB 5300.4(3A) Reliability and Quality Assurance publication • NASA SP-5002 Soldering Electrical Connections • NASA NPC200-4 Quality publication • DOD Standard 1686B and DOD Handbook 263 • Mil-B-81705C Static Decay Rate Provision • Mil-Std-2000A

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
Chem-Wik Desoldering Braid							
.030 (.76)	5 (1.52)	White	CW2-5-ND	3.34	3.01	2.43	2-5L
.030 (.76)	25 (7.62)	White	CW2-25-ND	14.36	12.93	10.42	2-25L
.050 (1.27)	25 (7.62)	Yellow	CW5-25-ND	14.36	12.93	10.42	5-25L
.075 (1.91)	25 (7.62)	Green	CW7-25-ND	14.94	13.45	10.84	7-25L
.100 (2.54)	25 (7.62)	Blue	CW10-25-ND	15.96	14.37	11.58	10-25L
.030 (.76)	100 (30.48)	Gray	2-100L-ND	57.28	51.56	41.53	2-100L
.050 (1.27)	100 (30.48)	Yellow	5-100L-ND	57.28	51.56	41.53	5-100L
.075 (1.91)	100 (30.48)	Green	7-100L-ND	59.42	53.48	43.08	7-100L
.100 (2.54)	100 (30.48)	Blue	10-100L-ND	63.68	57.32	46.17	10-100L
Soder-Wick Desoldering Braid							
.030 (.76)	5 (1.52)	White	80-1-5-ND	3.76	3.39	2.73	80-1-5
.060 (1.52)	5 (1.52)	Yellow	80-2-5-ND	3.76	3.39	2.73	80-2-5
.080 (2.03)	5 (1.52)	Green	80-3-5-ND	4.06	3.66	2.95	80-3-5
.110 (2.79)	5 (1.52)	Blue	80-4-5-ND	4.40	3.96	3.19	80-4-5
.145 (3.68)	5 (1.52)	Brown	80-5-5-ND	4.86	4.38	3.53	80-5-5
.210 (5.33)	5 (1.52)	Red	80-6-5-ND	5.12	4.61	3.72	80-6-5
.030 (.76)	25 (7.62)	White	50-1-25-ND	16.42	14.78	11.91	50-1-25
.060 (1.52)	25 (7.62)	Yellow	50-2-25-ND	16.42	14.78	11.91	50-2-25
.080 (2.03)	25 (7.62)	Green	50-3-25-ND	16.90	15.21	12.26	50-3-25
.110 (2.79)	25 (7.62)	Blue	50-4-25-ND	18.64	16.78	13.52	50-4-25
.145 (3.68)	25 (7.62)	Brown	50-5-25-ND	20.90	18.81	15.16	50-5-25
.210 (5.33)	25 (7.62)	Red	50-6-25-ND	22.18	19.97	16.09	50-6-25
.060 (1.52)	100 (30.48)	Yellow	50-2-100-ND	63.56	57.21	46.09	50-2-100
.080 (2.03)	100 (30.48)	Green	50-3-100-ND	66.20	59.58	48.00	50-3-100
.110 (2.79)	100 (30.48)	Blue	50-4-100-ND	73.06	65.76	52.97	50-4-100
No-Clean Soder-Wick Desoldering Braid							
.030 (.76)	5 (1.52)	White	60-1-5-ND	4.06	3.66	2.95	60-1-5
.060 (1.52)	5 (1.52)	Yellow	60-2-5-ND	4.06	3.66	2.95	60-2-5
.080 (2.03)	5 (1.52)	Green	60-3-5-ND	4.24	3.82	3.08	60-3-5
.110 (2.79)	5 (1.52)	Blue	60-4-5-ND	4.86	4.38	3.53	60-4-5
.145 (3.68)	5 (1.52)	Brown	60-5-5-ND	5.30	4.77	3.85	60-5-5
.210 (5.33)	5 (1.52)	Red	60-6-5-ND	5.74	5.17	4.17	60-6-5
.030 (.76)	10 (3.04)	White	60-1-10-ND	7.34	6.61	5.33	60-1-10
.060 (1.52)	10 (3.04)	Yellow	60-2-10-ND	7.34	6.61	5.33	60-2-10
.080 (2.03)	10 (3.04)	Green	60-3-10-ND	7.80	7.02	5.66	60-3-10
.110 (2.79)	10 (3.04)	Blue	60-4-10-ND	8.72	7.85	6.33	60-4-10
.145 (3.68)	10 (3.04)	Brown	60-5-10-ND	9.58	8.63	6.95	60-5-10

Lead-Free SD Desoldering Braid

Soder-Wick® Lead-Free is the state of the art in desoldering technology. It is specially designed for removal of today's high temperature lead-free solders.

Features: • Fastest wicking and heat transfer • Halide free, no corrosive residues • Minimizes risk of heat damage to pads, components and PBCs • Can be used with Tin/Lead solders

Specifications: ANSI/IPC J STD-004; MIL-F-14256 F

No-Clean Flux Specifications: MIL-STD-883B; Bellcore TR-NWT-000078; ANSI/IPC J SF818

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
.060 (1.5)	5 (1.52)	Yellow	40-2-5-ND	4.08	3.68	2.96	40-2-5
.060 (1.5)	10 (3.04)	Yellow	40-2-10-ND	7.34	6.61	5.33	40-2-10
.080 (2.0)	5 (1.52)	Green	40-3-5-ND	4.28	3.86	3.11	40-3-5
.080 (2.0)	10 (3.04)	Green	40-3-10-ND	7.78	7.01	5.65	40-3-10
.110 (2.8)	5 (1.52)	Blue	40-4-5-ND	4.80	4.32	3.48	40-4-5
.110 (2.8)	10 (3.04)	Blue	40-4-10-ND	8.50	7.65	6.17	40-4-10

Lead-Free Pocket Solder

Lead-free pocket solder is the high purity pocket-sized solder in a convenient dispenser for rework and repair. **Specifications:** • Diameter 0.04" (1mm) • RMA Flux Core: 3% • Solder Composition: (Sn) 96.5% (Ag) 3.0% (Cu) 0.5% • Melting Point: 419° ~ 424°F (215° ~ 219°C)

S200-ND 125" (3.18m) **$22.30**

Unsaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Lightweight Polyester Wipes, 9" x 9" (150 Pcs.)	6209-ND	78.78	70.91	6209
Polyester/Cellulose Blend, Nonwoven Wipes, 4"x4" (1,200 Pcs.)	6704CH-ND	41.20	37.08	6704
Polyester/Cellulose Blend, Nonwoven Wipes, 9"x9" (300 Pcs.)	6709CH-ND	41.20	37.08	6709
Sealed Edge Microfiber Chamois™ Wipes, 8"x8" (50 Pcs.)	7348LE-ND	168.52	151.67	7348LE

Presaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Optic Prep High Quality Optical Cleaning and Polishing Pads (50 Pcs)	CP410-ND	30.90	27.81	CP410
Chempad General Purpose, Lint-free, Nonabrasive Cleaning Pads (50 Pcs.)	CP400-ND	34.02	30.62	CP400
Electro-Wash® MX Plastic-Safe Cleaner 8" x 10" (25 Pcs.)	CP421-ND	56.16	50.55	CP421
Screen-Prep Wet-and-Dry Wipes for Monitor Screens (25 Twin Packs)	CSP20-ND	36.46	32.82	CSP20

Hand Cleaner Towels-In-a-Bucket

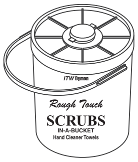

Whether you are in the shop, on the assembly line, or out in the field, these premoistened towels are ready to use for your hard working hands. The citrus based formula combined with an absorbent, non-scratching towel will loosen, dissolve, and absorb soils from your hands. Towels will not re-transfer soils back onto your skin, and will leave your hands conditioned and protected while you clean. Residue free.

Quickly Removes: • Adhesives • Caulk • Dirt • Epoxy • Grease • Grime • Lubricants • Ink and Dye • Sealants • Tar • Urethane • Wax • Asphalt • Polyurethane • Paint • Oils

For More Than Just Hands: • Tools • Plastics • Vinyl • Painted Surfaces • Metal • Work Surfaces • Equipment • Composites • Workbenches

42272-ND 72 Towels (10.5" x 12.25") **$34.12**

Swabs and Applicators

For general purpose cleaning of magnetic heads, video heads and optical pickups.

Fig. 1 **Chamois Tip, ABS Handle**

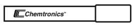

Fig. 2 **Cotton Tip, Wood Handle**

Fig. 3 **Cotton Tip, Double Ended**

Fig.	Qty. (Pcs.)	Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	50	3.25 (82.55)	CC50-ND	52.52	47.27	38.08	CC50
2	100	6.00 (152.40)	CT100-ND	4.86	4.38	3.53	CT100
3	100	6.00 (152.40)	CT200-ND	5.20	4.68	3.77	CT200
	1000	6.00 (152.40)	CT2000-ND	41.40	37.26	30.02	CT2000
—	25	5.12 (130)	CS25-ND	43.50	39.15	31.54	CS25

Circuit Works Prototyping and Rework Dispensing Pens

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Nickel Conductive Pen	CW2000-ND	12.16	10.95	CW2000
Conductive Trace Pen, Std. Tip for Repairing PCBs	CW2200STP-ND	33.42	30.08	CW2200STP
Conductive Trace Pen, Micro Tip for Repairing PCBs	CW2200MTP-ND	33.42	30.08	CW2200MTP
60 Minute Conductive Epoxy	CW2460-ND ***NEW!***	86.64	77.98	CW2460
Epoxy Overcoat	CW2500-ND	16.22	14.60	CW2500
Conductive Rubber Keypad Repair Kit	CW2605-ND	22.10	19.89	CW2605
Micro-Tip Flex Conductive Pen	CW2900-ND	34.68	31.22	CW2900
Overcoat Pen for Protecting Conductive Trace on PCB	CW3300G-ND	22.28	20.06	CW3300G
Conformal Coating Remover Pen for PCBs (.32 Oz.)	CW3500-ND	17.88	16.10	CW3500
Conductive Silver Grease for Relays and Connectors	CW7100-ND	34.46	31.02	CW7100
Boron Nitride Heat Sink Grease	CW7250-ND	15.84	14.26	CW7250
Silicone Free Heat Sink Grease	CW7270-ND	11.28	10.16	CW7270

Clean Room Products

Swabs and Applicators

Fig. 1

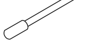

Fig. 2

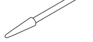

Fig. 3

Fig.	Qty. (Pcs.)	Length Inch (mm)	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	500	2.80 (71.10)	.10" (2.54mm) Width, ESD Shaft	.12" (3.05mm) Diameter, Knit Polyester Tip	31040ESD-ND	138.80	124.92	100.63	31040ESD
	500	2.80 (71.10)	.10" (2.54mm) Width, Polypropylene Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050-ND	61.52	55.37	44.61	41050
	500	2.80 (71.10)	.10" (2.54mm) Width, ESD Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050ESD-ND	125.00	112.50	90.63	41050ESD
	50	4.45 (11.30)	.16" (4.00mm) Width, Polypropylene Shaft	.25" (6.30mm) Diameter, Closed Cell Foam Tip	CX50-ND	38.56	34.71	27.96	CX50
2	500	3.20 (81.28)	.10" (2.54mm) Width, Polypropylene Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070-ND	67.22	60.50	48.74	44070
	500	3.20 (81.28)	.10" (2.54mm) Width, ESD Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070ESD-ND	125.00	112.50	90.63	44070ESD
3	25	6.30 (160.02)	.12" (3.05mm) Width, Glass Filled Nylon Shaft	.26" (6.60mm) Diameter, Knit Polyester Tip	52121-ND	19.74	17.77	14.32	52121
	50	4.13" (10.50)	.16" (4.00mm) Width, Polypropylene Shaft	.19" (4.80mm) Diameter, Closed Cell Foam Tip	CXM50-ND	40.48	36.44	29.35	CXM50

Flux-Core Solders

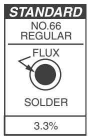

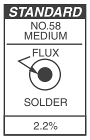

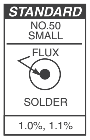

Alloy	Melting Range (°F)
Sn63Pb37	361
Sn60Pb40	361-374
Sn62Pb36Ag02	354-372
Sn43Pb43Bi14	291-325
Sn96.5Ag3.0Cu0.5	423
Sn99.3Cu0.7	440

"44" RA Solders

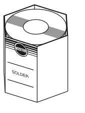

Kester "44" has virtually dominated the field of activated rosin core solders for well over four decades. An outstanding performance feature of this flux is the "instant wetting" action. The high mobility and fast spreading action of this flux results in more reliable production line soldering. Gold Label.

Description	Digi-Key Part No.	Price Each 1	5	10
63/37, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1100-ND	40.50	36.45	32.40
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) diameter	KE1108-ND	41.40	37.26	33.12
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) diameter	KE1101-ND	42.75	38.48	34.20
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1102-ND	44.55	40.10	35.64
23 Gauge Solder, 3.3% Flux, .025" (0.63mm) diameter	KE1109-ND	46.80	42.12	37.44
25 Gauge Solder, 3.3% Flux, .020" (0.51mm) diameter	KE1103-ND	60.15	54.14	48.12
28 Gauge Solder, 3.3% Flux, .015" (0.38mm) diameter	KE1110-ND	69.15	62.24	55.32
60/40, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1104-ND	39.48	35.53	31.58
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) diameter	KE1115-ND	40.38	36.34	32.30
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) diameter	KE1105-ND	41.73	37.56	33.38
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1106-ND	43.53	39.18	34.82
23 Gauge Solder, 3.3% Flux, .025" (0.63mm) diameter	KE1116-ND	45.78	41.20	36.62
25 Gauge Solder, 3.3% Flux, .020" (0.51mm) diameter	KE1107-ND	59.13	53.22	47.30

"48" RA Lead-Free Solder

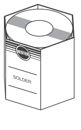

Kester "48" activated rosin flux for cored solder wire was developed for lead-free applications to enable soldering of most common metals. Performance characteristics far exceed standard RA fluxes. Kester "48" builds on the performance of its predecessor Kester "44" with "instant-action" wetting to provide fast and reliable solder joints. Kester "48" is classified as ROL1 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 lb. Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1125-ND	85.80	77.22	68.64
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) diameter	KE1124-ND	86.40	77.76	69.12
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1123-ND	91.50	82.35	73.20
23 Gauge Solder, 3.3% Flux, .025" (0.64mm) diameter	KE1122-ND	92.85	83.57	74.28
25 Gauge Solder, 3.3% Flux, .020" (0.51mm) diameter	KE1121-ND	105.45	94.91	84.36

"245" No-Clean Solders

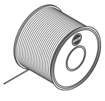

Kester "245" Low Residue Solder was developed to complement the newer generations of Low Residue Fluxes being used in the electronics industry. The use of "245" Low Residue Flux results in visually acceptable assemblies without the need for cleaning. Soldering quality and efficiency is comparable to that of a RMA flux. 1.1% flux standard, 2.2% and 3.3% for faster wetting action. Cream label.

Description	Digi-Key Part No.	Price Each 1	5	10
63/37, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 1.1% Flux, .062" (1.57mm) diameter	KE1399-ND	40.50	36.45	32.40
18 Gauge Solder, 1.1% Flux, .050" (1.27mm) diameter	KE1402-ND	41.40	37.26	33.12
19 Gauge Solder, 1.1% Flux, .040" (1.02mm) diameter	KE1403-ND	42.75	38.48	34.20
21 Gauge Solder, 1.1% Flux, .031" (0.79mm) diameter	KE1400-ND	44.55	40.10	35.64
23 Gauge Solder, 1.1% Flux, .025" (0.63mm) diameter	KE1404-ND	46.80	42.12	37.44
25 Gauge Solder, 1.1% Flux, .020" (0.51mm) diameter	KE1401-ND	60.15	54.14	48.12
28 Gauge Solder, 1.1% Flux, .015" (0.38mm) diameter	KE1405-ND	68.85	61.97	55.08
63/37 1 lb. (.45 kg) Spool				
21 Gauge Solder, 2.2% Flux, .031" (0.79mm) diameter	KE1408-ND	44.55	40.10	35.64
25 Gauge Solder, 2.2% Flux, .020" (0.51mm) diameter	KE1409-ND	60.15	54.14	48.12
63/37 1 lb. (.45 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1410-ND	44.55	40.10	35.64

"275" No-Clean Lead-Free Solder

Kester "275" No-Clean Flux for cored solder wire was developed to provide superior wetting performance for hand soldering in the electronics industry. The use of "275" No-Clean Flux results in an extremely clear post-soldering residue without cleaning. The unique chemistry in Kester "275" was also designed to reduce spattering common to most core fluxes. Kester "275 is Classified as ROL0 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 lb. Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) diameter	KE1134-ND	85.80	77.22	68.64
18 Gauge Solder, 2.2% Flux, .050" (1.27mm) diameter	KE1133-ND	86.70	78.03	69.36
21 Gauge Solder, 2.2% Flux, .031" (0.79mm) diameter	KE1137-ND	91.50	82.35	73.20
23 Gauge Solder, 2.2% Flux, .025" (0.64mm) diameter	KE1132-ND	92.85	83.57	74.28
25 Gauge Solder, 2.2% Flux, .020" (0.51mm) diameter	KE1131-ND	105.45	94.91	84.36

"285" RMA Solders

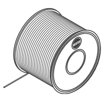

Kester "285" has been developed for the use in the electronics industry where difficult assemblies are to be soldered, but process requirements stipulate use of a mildly activated rosin flux. Kester "285" mildly activated rosin flux is classified as Type ROL1 flux under IPC ANSI/J-STD-004 Standards. Green Label.

Description	Digi-Key Part No.	Price Each 1	5	10
63/37, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) diameter	KE1199-ND	24.63	22.17	19.70
21 Gauge Solder, 2.2% Flux, .031" (0.79mm) diameter	KE1200-ND	44.55	40.10	35.64
25 Gauge Solder, 2.2% Flux, .020" (0.51mm) diameter	KE1201-ND	40.25	36.23	32.20
28 Gauge Solder, 2.2% Flux, .015" (0.38mm) diameter	KE1203-ND	68.85	61.97	55.08

"331" Organic Water Soluble Solder

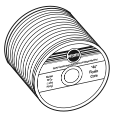

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. Kester "331" flux is more effective than rosin fluxes in soldering difficult metals and allows a simple water wash for flux cleanup. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as type ORH1 per IPC ANSI/J-STD-004. Red Label.

Description	Digi-Key Part No.	Price Each 1	5	10
63/37, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1299-ND	40.50	36.45	32.40
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1300-ND	44.55	40.10	35.64
23 Gauge Solder, 3.3% Flux, .025" (0.63mm) diameter	KE1302-ND	46.80	42.12	37.44
25 Gauge Solder, 3.3% Flux, .020" (0.51mm) diameter	KE1301-ND	60.15	54.14	48.12
28 Gauge Solder, 3.3% Flux, .015" (0.38mm) diameter	KE1303-ND	68.85	61.97	55.08
60/40, 1 lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1304-ND	24.63	22.17	19.70
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1305-ND	29.13	26.22	23.30

"331" Organic Water Soluble Lead-Free Solder

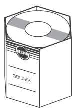

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as ORH1 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 lb. Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) diameter	KE1130-ND	85.80	77.22	68.64
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) diameter	KE1129-ND	86.70	78.03	69.36
21 Gauge Solder, 3.3% Flux, .031" (0.79mm) diameter	KE1128-ND	91.50	82.35	73.20
23 Gauge Solder, 3.3% Flux, .025" (0.64mm) diameter	KE1127-ND	92.85	83.57	74.28
25 Gauge Solder, 3.3% Flux, .020" (0.51mm) diameter	KE1126-ND	105.45	94.91	84.36

Specialty Solders and Accessories

Description	Digi-Key Part No.	Price Each 1	5	10
Solid Wire Solder (No Flux), 1 lb. (.45 kg) Spool				
16 Gauge Solder 63/37, .062" (1.57mm) diameter	KE1603-ND	40.50	36.45	32.40
21 Gauge Solder 63/37, .031" (0.79mm) diameter	KE1606-ND	44.55	40.10	35.64
21 Gauge Solder 60/40, .031" (0.79mm) diameter	KE1604-ND	43.53	39.18	34.82
25 Gauge Solder 60/40, .020" (0.51mm) diameter	KE1605-ND	39.63	35.67	31.70
Bar Solder				
Lead Free Sn96.5Ag3.0Cu0.5, 1.6 lbs. (.73 kg)	KE1135-ND◆	93.38	84.04	74.70
Premium Oxide Free Solder (Ultrapure), 63/37, 1.66 lbs. (.45 kg)	KE1602-ND	31.17	28.05	24.94

◆ ***RoHS Compliant***

CHIPQUIK®
PATENTED

NEW! Small Spool Solder Wire and Tip Cleaner

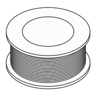

Description	Digi-Key Part No.	Price Each
Solder Wire		
63/37 Tin/Lead No-Clean .020" (0.51mm) diameter, 1oz.	SMDSW.020 1OZ-ND	4.32
63/37 Tin/Lead No-Clean .020" (0.51mm) diameter, 2oz.	SMDSW.020 2OZ-ND	5.52
63/37 Tin/Lead No-Clean .020" (0.51mm) diameter, 4oz.	SMDSW.020 4OZ-ND	6.96
63/37 Tin/Lead No-Clean .031" (0.79mm) diameter, 1oz.	SMDSW.031 1OZ-ND	4.16
63/37 Tin/Lead No-Clean .031" (0.79mm) diameter, 2oz.	SMDSW.031 2OZ-ND	5.12
63/37 Tin/Lead No-Clean .031" (0.79mm) diameter, 4oz.	SMDSW.031 4OZ-ND	6.16
Lead Free Solder Wire — RoHS Compliant		
96.5Sn/3Ag/.5Cu .020" (0.51mm) diameter, 1oz.	SMDSWLF.020 1OZ-ND	4.80
96.5Sn/3Ag/.5Cu .020" (0.51mm) diameter, 2oz.	SMDSWLF.020 2OZ-ND	5.84
96.5Sn/3Ag/.5Cu .020" (0.51mm) diameter, 4oz.	SMDSWLF.020 4OZ-ND	7.60
96.5Sn/3Ag/.5Cu .031" (0.79mm) diameter, 1oz.	SMDSWLF.031 1OZ-ND	4.32
96.5Sn/3Ag/.5Cu .031" (0.79mm) diameter, 2oz.	SMDSWLF.031 2OZ-ND	5.44
96.5Sn/3Ag/.5Cu .031" (0.79mm) diameter, 4oz.	SMDSWLF.031 4OZ-ND	6.96
Tip Tinner — RoHS Compliant		
Solder Tip Cleaner	SMDTCLF-ND	6.60

CHIPQUIK Solder Paste and Flux

Chip Quik's no-clean formula solder paste and flux are made specifically for leaded and lead-free rework and design.

Features: • The syringes come with plungers and tip.

Fig. 1
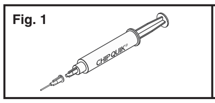

Fig. 2 ***NEW!***

Fig.	Description	Digi-Key Part No.	Price Each
	Solder Paste		
1	Solder Paste, No-Clean, 15gm/5cc Syringe	SMD291AX-ND	12.75
1	Solder Paste, No-Clean, 15gm/5cc Syringe	SMD291SNL-ND◆	14.25
1	Solder Paste, No-Clean, 35gm/10cc Syringe	SMD291AX10-ND	18.75
1	Solder Paste, No-Clean, 35gm/10cc Syringe	SMD291SNL10-ND◆	20.93
1	Solder Paste, Water Soluble, 35gm/10cc Syringe	SMD4300AX10-ND	20.93
1	Solder Paste, Water Soluble, 35gm/10cc Syringe	SMD4300SNL10-ND◆	22.43
	Flux		
1	Paste Flux, No-Clean, 15gm/5cc Syringe	SMD291NL-ND◆	9.75
2	Paste Flux, No-Clean, 6 Pack - 2cc Tubes	SMD291ST2CC6-ND◆ ***NEW!***	13.20
1	Paste Flux for Rework, No Clean, 35gm/10cc Syringe	SMD291-ND	13.13
1	Tack Flux, No Clean, Water Soluble, 35gm/10cc Syringe	SMD4300TF10-ND◆	14.93

◆ ***RoHS Compliant***

kester Solder Paste

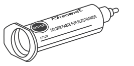

Kester solder paste was developed for applications of surface mount PCBs and components. All pastes are SN63/PB37 with a mesh size of -325 ~ 500 (25 ~ 40 microns) and come in 35gm syringes for hand dispensing. R276 no-clean formulation provides optimal performance in all types of dispensing applications, designed for reflow practices that do not require cleaning of the PCB. R500 water soluble solder paste is aggressive enough to remove tenacious oxide layers and offers excellent wetting characteristics.
Pastes should be refrigerated to preserve their usable life.
Note: To ensure customer satisfaction and product integrity, pastes must be shipped overnight or 2nd Day Air only. Tips are not included.

Description	Digi-Key Part No.	Price Each 1	5	10
No-Clean Paste, 35gm Syringe (R276)	KE1507-ND	30.63	27.57	24.50
Water Soluble Paste, 35gm Syringe (R500)	KE1512-ND	30.63	27.57	24.50

Paste Flux and Liquid Flux Pens

Kester flux pens use a spring-loaded tip to dispense just the right amount of flux while preventing the flux inside from drying out. Tacky Solder Flux is a no-clean paste flux that maintains its characteristics for up to 8 hours after dispensing, can be used in a wide range of temperature and humidity conditions, and can reflow in both air and nitrogen environments. SP244 is a mildly activated rosin paste flux designed to be used as a no-clean formula for rework applications.

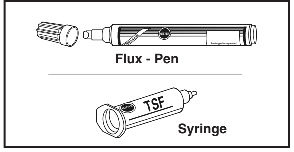

Description	Digi-Key Part No.	Price Each 1	5	10
Flux Pen - Formula 186 RMA (10mL)	KE1803-ND	4.38	3.94	3.50
Flux Pen - Formula 951, No-Clean (10mL)	KE1804-ND	4.38	3.94	3.50
Flux Pen 2331-ZX, Water-Soluble (10mL)	KE1808-ND	4.38	3.94	3.50
Tacky Solder Flux, No-Clean, 30gm Syringe	KE1807-ND	57.75	51.98	46.20

ITW Chemtronics
Circuit Works Flux Pens

RoHS COMPLIANT

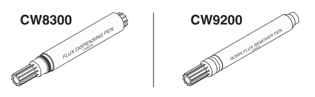

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Refillable Flux Dispensing Pens - 2 Pack	CW7000-ND ***NEW!***	20.34	18.31	CW7000
Water Soluble Flux Dispensing Pen	CW8300-ND	8.80	7.92	CW8300
Lead-Free No-Clean Flux Dispensing Pen (.32 Oz.)	CW8400-ND	10.02	9.02	CW8400
No-Clean Tacky Flux with Syringe	CW8500-ND ***NEW!***	14.92	13.43	CW8500
Lead-Free Flux Remover Pen (.32 Oz.)	CW9400-ND	12.70	11.43	CW9400
Flux Remover Pen for No-Clean Fluxes (.32 Oz.)	CW9100-ND	13.22	11.90	CW9100
Flux Remover Pen for Rosin Based Fluxes (.32 Oz.)	CW9200-ND	12.70	11.43	CW9200

Weller® Plastic Dispensing Tips and Plungers

Dispensing Tip Features: • Plastic material won't scratch delicate surfaces • Taper reduces dripping from needle • **Length:** 1.5 inches • **Quantity:** 25 per package

Plunger Rod Features: • Capacity: 10cc for 35-gram syringe of solder paste

Fig. 1
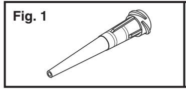

Fig. 2
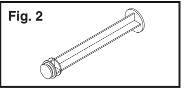

Fig.	Gauge	Color	Inside Diameter Inch (mm)	Digi-Key Part No.	Price Each
1	16	Grey	.048 (1.22)	KDS16TN25-ND	8.44
	18	Green	.034 (.86)	KDS18TN25-ND	8.44
	20	Pink	.024 (.61)	KDS20TN25-ND	8.44
	22	Blue	.019 (.48)	KDS22TN25-ND	8.44
2	—	Clear	—	10LL4-ND	.06

EasyBraid Co. Solder Sponges

Type	Size (Inch)	Replacements	Digi-Key Part No.	Price Each 1	10	25
One Hole	1.2 x 2.7	OK Ind. 45803S	EB1001-ND	1.10	1.05	.94
One Hole	1.55 x 2.55	Ungar 9901	EB1002-ND	1.14	1.10	.98
Slits	2 x 2.6	Weller MP	EB1003-ND	1.29	1.24	1.11
One Hole	2.2 x 3.5	Weller DS-100; EC-1000; EC-2000	EB1004-ND	1.54	1.48	1.32
Multiple Holes	2.6 x 2.6	Weller WTCP; EC-3000; EC-4000; TC205	EB1005-ND	1.54	1.48	1.32
One Hole	2.4 x 3.2	EDSYN Models	EB1010-ND	1.54	1.48	1.32
One Hole	3 Round	OK Ind. AC-YS4	EB1198-ND	18.94	18.14	16.12

Desoldering Braid

Twenty-five percent cleaner than most major brands, leaving less residue on the desoldered connection. Meets the requirements of Mil-F-14256F Type R (Quick Braid only), Mil STD. 2000, and in compliance with DOD Standard 1686. Also meets the requirements of Bellcore Spec. TR-TSY-000078 and IPC Test Method III. Easy Braid numbers ending in AS are anti-static bobbins.

Width Inch (mm)	Length Ft. (Meter)	Label Color	Digi-Key Part No.	Price Each 1	10	Easy Braid Part No.
			Quick Braid			
.025 (.64)	5 (1.52)	Silver	EB1084-ND	2.68	2.57	Q-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1087-ND	2.68	2.57	Q-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1090-ND	2.75	2.64	Q-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1093-ND	3.08	2.95	Q-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1096-ND	3.29	3.15	Q-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1085-ND	4.51	4.32	Q-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1088-ND	4.51	4.32	Q-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1091-ND	4.61	4.41	Q-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1094-ND	5.12	4.91	Q-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1097-ND	5.73	5.49	Q-E-10AS
.025 (.64)	25 (7.62)	Silver	EB1021-ND	11.26	10.78	Q-A-25
.050 (1.27)	25 (7.62)	Gold	EB1023-ND	11.26	10.78	Q-B-25
.075 (1.91)	25 (7.62)	Green	EB1025-ND	11.54	11.05	Q-C-25
.100 (2.54)	25 (7.62)	Blue	EB1027-ND	13.63	13.05	Q-D-25
.125 (3.18)	25 (7.62)	Brown	EB1029-ND	14.22	13.62	Q-E-25
.025 (.64)	100 (30.48)	Silver	EB1086-ND	39.72	38.03	Q-A-100
.050 (1.27)	100 (30.48)	Gold	EB1089-ND	40.61	38.88	Q-B-100
.075 (1.91)	100 (30.48)	Green	EB1092-ND	41.85	40.08	Q-C-100
.100 (2.54)	100 (30.48)	Blue	EB1095-ND	46.34	44.37	Q-D-100
.125 (3.18)	100 (30.48)	Brown	EB1098-ND	33.27	31.06	Q-E-100
			One Step (RMA No-Clean)			
.025 (.64)	5 (1.52)	Silver	EB1099-ND	3.15	3.02	OS-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1102-ND	3.15	3.02	OS-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1105-ND	3.34	3.20	OS-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1108-ND	3.71	3.56	OS-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1111-ND	4.28	4.10	OS-E-5AS
.025 (.64)	25 (7.62)	Silver	EB1051-ND	13.89	13.30	OS-A-25
.050 (1.27)	25 (7.62)	Gold	EB1053-ND	13.89	13.30	OS-B-25
.075 (1.91)	25 (7.62)	Green	EB1055-ND	14.01	13.41	OS-C-25
.100 (2.54)	25 (7.62)	Blue	EB1057-ND	15.65	14.99	OS-D-25
.125 (3.18)	25 (7.62)	Brown	EB1059-ND	18.64	17.85	OS-E-25
.025 (.64)	100 (30.48)	Silver	EB1101-ND	33.47	31.24	OS-A-100
.050 (1.27)	100 (30.48)	Gold	EB1104-ND	33.47	31.24	OS-B-100
.075 (1.91)	100 (30.48)	Green	EB1107-ND	33.78	31.53	OS-C-100
.100 (2.54)	100 (30.48)	Blue	EB1110-ND	37.73	35.21	OS-D-100
.125 (3.18)	100 (30.48)	Brown	EB1113-ND	48.69	45.45	OS-E-100
.025 (.64)	10 (3.04)	Silver	EB1100-ND	5.50	5.27	OS-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1103-ND	5.50	5.27	OS-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1106-ND	5.62	5.38	OS-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1109-ND	6.23	5.97	OS-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1112-ND	7.24	6.93	OS-E-10AS
			One Step Lead-Free (RMA No-Clean) — RoHS Compliant			
.025 (.64)	5 (1.52)	Silver	EB1188-ND	3.85	3.69	LF-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1189-ND	3.85	3.69	LF-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1190-ND	4.09	3.92	LF-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1191-ND	4.58	4.39	LF-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1192-ND	5.45	5.22	LF-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1193-ND	6.30	6.03	LF-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1194-ND	6.30	6.03	LF-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1195-ND	6.46	6.19	LF-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1196-ND	7.19	6.89	LF-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1197-ND	7.90	7.56	LF-E-10AS
			Sea Braid (unfluxed)			
.025 (.64)	5 (1.52)	Silver	EB1170-ND	2.68	2.57	S-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1173-ND	2.68	2.57	S-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1176-ND	2.75	2.64	S-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1179-ND	3.08	2.95	S-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1182-ND	3.29	3.15	S-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1171-ND	4.51	4.32	S-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1174-ND	4.51	4.32	S-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1177-ND	4.61	4.41	S-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1180-ND	5.12	4.91	S-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1183-ND	5.73	5.49	S-E-10AS
.025 (.64)	100 (30.48)	Silver	EB1172-ND	39.72	38.03	S-A-100
.050 (1.27)	100 (30.48)	Gold	EB1175-ND	40.61	38.88	S-B-100
.125 (3.18)	100 (30.48)	Brown	EB1184-ND	33.27	31.06	S-E-100

FLUKE®

Digital Multimeters

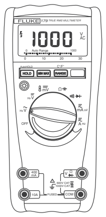

Fluke 179

Features: • IEC 1010 CAT IV 600V safety rating • 6000 count display • True-rms AC voltage and current • Minimum/Maximum/Average • Frequency and capacitance capabilities • Easy access battery door • Fluke 179 measures temperature in °C and °F • Backlight (Fluke 177 and 179) • Lifetime warranty
Specifications: • AC Amps: 0.01mA ~ 10.00A • DC Amps: 0.01mA ~ 10.00A • AC Voltage: 0.1mV ~ 1000V • DC Voltage: 0.1mV ~ 1000V • Resistance: 0.1Ω ~ 50.00MΩ • Capacitance: 1nF ~ 9999µF • Frequency: 0.01Hz ~ 100kHz • Temperature (Fluke 179 only): -40°C ~ 400°C (-40°F ~ 752°F)
Includes: • Installed 9V battery • Test leads • User's manual • 80BK-A Temperature Probe (Fluke 179 only)

Digi-Key Part No.	Price Each	Fluke Part No.
614-1019-ND	243.95	FLUKE-175 ESFP
614-1020-ND	254.95	FLUKE-177 ESFP
614-1021-ND	264.95	FLUKE-179 ESFP

Electronics Combo Kit

Includes: • Fluke 179 True-rms Digital Multimeter with backlight • Fluke TL224 Silicone Test Leads • Fluke TL910 Electronic Test Probes with Replacement Tips • Fluke AC280 Heavy Duty Hook Clips • Fluke 80BK-A Integrated Temperature Probe • C35 Lightweight Soft Carrying Case

614-1023-ND (FLUKE-179/EDA2) **$300.95**

Electrician's Combo Kit

Includes: • Fluke 179 True-rms Digital Multimeter • Fluke 1AC-II Volt Alert Non-Contact Voltage Tester • Fluke 80BK-A K-type Temperature Probe • Fluke AC220 Retractable Long Reach Alligator Clips • Fluke TP220 Sharp 12mm stainless steel tip provides reliable contact • Fluke TL224 1.5m silicone leads resist heat • Fluke TPAK TookPak meter hanging accessory to hold meter to steel surfaces • Fluke C35 Lightweight soft case to provide optimal protection and storage

614-1022-ND (FLUKE-179/1AC-II) **$300.95**

NEW! True-rms Remote Display Digital Multimeters

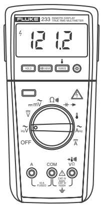

Fluke 233

Features: • Low power wireless technology allows the display to be carried up to 10 meters (33 feet) away from the point of measurement for added flexibility. No interference with measurements • The removable magnetic display can be conveniently mounted where it is easily seen • Make measurements without holding the meter to improve visual focus on probes and augment safe electrical measurements • Use as a conventional multimeter when the display is connected • Radio transmitter automatically turns off when the display is connected to the meter • Auto power off maximizes battery life • Minimum/maximum and average recording to capture variations automatically • Test continuity and diodes • Easy to read display with large digits and bright backlight • Battery life approximately 400 hours
Includes: • Test leads • Alligator clips • 80BK-A temperature probe • Manual • CD-ROM • AA batteries

614-1152-ND (FLUKE-233) **$298.14**

True-rms Electrical Multimeter

Fluke 114

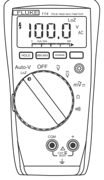

Fluke 114

Features: • Measures up to 600V AC and DC • AutoVolt: automatic AC/DC voltage selection • LoZ: Low input impedance prevents false readings due to "ghost" voltage • Large white LED backlight to work in poorly lit areas • Resistance and continuity • Minimum/Maximum/Average to record signal fluctuations • CAT III 600V safety rated
Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1009-ND (FLUKE-114) **$133.95**

Fluke 115

Features: • Measures up to 600V AC and DC • Resistance, continuity, frequency, capacitance and diode test • Measures 10A • Large white LED backlight to work in poorly lit areas • 10A current measurement • Minimum/Maximum/Average with elapsed time to record signal fluctuations • CAT III 600V safety rated
Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1010-ND (FLUKE-115) **$156.95**

Fluke 117

Features: • Measures up to 600V AC and DC • VoltAlert™ technology for non-contact voltage detection • LoZ: Low input impedance prevents false readings due to "ghost" voltage • AutoVolt automatic AC/DC voltage selection • Large white LED backlight to work in poorly lit areas • 10A current measurement • Resistance, continuity, frequency, and capacitance • Minimum/Maximum/Average to record signal fluctuations • CAT III 600V safety rated
Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1011-ND (FLUKE-117) **$191.95**

NEW! True-rms Industrial Multimeters

Features: • IP 67 waterproof and dustproof protection, completely sealed for use in harsh environments • Designed to withstand 3 meter drop (with holster) • Hi resolution 20,000 count display mode (28 II) • True-rms ac voltage and current for accurate measurements on non linear signals (28 II) • Average responding voltage and current for measurements (27 II) • Backlight keypad buttons allow for easy visibility in low-lit areas • Large display digits and 2 level bright white backlit for increased visibility • Reversible holster for added protection when not in use • Withstands hazardous 8,000 volt spikes caused by load switching and faults on industrial circuits and complies with second edition IEC and ANSI electrical safety standards • Long battery life (800 hours) • Relative mode to remove test lead resistance from low ohms measurements • Auto and manual ranging for maximum flexibility • Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks • MSHA approval (pending)
Includes: • Holster • Test leads • alligator clips • 80BK-A temperature probe (28 II) • Manual • CD-ROM • Three AA batteries (installed)

614-1153-ND (FLUKE 27-II) **$419.95**
614-1154-ND (FLUKE 28-II) **$429.95**

True-rms Multimeter with TrendCapture

Fluke 287 Electronic Logging Meter

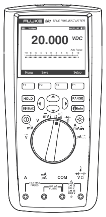

Fluke 287

Features:
• 50,000 count, 320 x 240 Dot matrix display with white backlight • 0.025% Basic DC accuracy • Logging function with TrendCapture • Optical USB PC communication interface • Field upgradable and expandable • i-info button • Internal memory allows stand-alone logging for up to 180 hours • Multi-lingual interface • True-rms AC voltage and current for accurate measurements on complex signals or non-linear loads. 100kHz AC bandwidth specified • Current measurement 20A (30 seconds momentary; 10A continuous) • Peak capture to record transients as fast as 250µs • Continuity/Conductance/Capacitance • Resistance and continuity • CAT III 1000V/CAT IV 600V safety rated • Limited lifetime warranty

614-1061-ND (FLUKE-287) **$464.95**

TLK287 Electronics Master Test Lead Set

Features: • Precision electronic probes with multiple spring-loaded sharp tips maximize contact with SMD test points • Micro-grabbers and leads necessary for fine SMD test • Mini-alligator clips, grabbers and probes • Both modular test leads and lead-probe combinations

614-1064-ND (TLK287) ***RoHS Compliant*** **$119.55**

Fluke-287 FlukeView Forms Combo Kit

Includes: • Fluke-287 True-RMS Electronics Logging Multimeter with TrendCapture • FlukeView Forms Software and cable • 80BK-A thermocouple probe • CAT III 1000V, 10A Modular test leads (red, black) • CAT III 1000V, 10A Modular test probes (red, black) • CAT II 300V, 5A Alligator clips (red, black) • Soft case for meter protection and accessory storage • Limited lifetime warranty • Made by Fluke in the USA

614-1151-ND (FLUKE-287/FVF) ***RoHS Compliant***.. **$585.95**

Fluke 289 Industrial Logging Meter

Features: • 50,000 count, 320 x 240 Dot matrix display with white backlight • 0.025% Basic DC accuracy • Logging function with TrendCapture • Optical USB PC communication interface • Field upgradable and expandable • i-info button • Internal memory allows stand-alone logging for up to 180 hours • Multi-lingual interface • True-rms AC voltage and current for accurate measurements on complex signals or non-linear loads, 100kHz AC bandwidth specified • Current measurement 20A (30 seconds momentary; 10A continuous) • Peak capture to record transients as fast as 250µs • Continuity/Conductance/Capacitance • Resistance and continuity • LoZ Volts: Low input impedance prevents false reading due to "ghost" voltage • Low Pass Filter for accurate voltage and frequency measurements on adjustable speed motor drives • 50Ω range with 1mΩ resolution, for measuring motor winding and making low Ω measurement • CAT III 1000V/CAT IV 600V safety rated • Limited lifetime warranty

614-1062-ND (FLUKE-289) **$544.95**

Fluke 289/FVF

Includes: • Fluke-289 True-rms Industrial Logging Multimeter with TrendCapture • FlukeView Forms Software and cable • 80BK-A thermocouple • TL 71 Silicon Test Lead Set • AC72 Alligator Clips • TPAK Magnetic Meter Hanger for hands-free operation • C280 Soft case for meter protection and accessory storage

614-1063-ND (FLUKE-289/FVF)... **$615.95**

TLK289 Industrial Master Test Lead Set

Includes: • SureGrip™ alligator clips, grabbers, hook clips and industrial test probes • Magnetic hanger • Temperature adapter with K-Type thermocouple • C116 Soft case with moveable divider • Recommended for use with Fluke 87V, 116, 179, 187, 189, 287, 289, 1587 DMMs

614-1065-ND (TLK289) ***RoHS Compliant*** **$119.55**

FVF-SC2

FlukeView Forms Software and cable.

614-1067-ND (FVF-SC2) ***RoHS Compliant***... **$189.49**

Insulation Resistance Tester and Multimeter

RoHS COMPLIANT

Fluke 1507 Insulation Resistance Tester

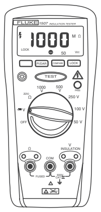

Fluke 1507

Features: • Live circuit detection prevents insulation test if voltage >30V is detected for added user protection • Auto-discharge of capacitive voltage for added user protection • Save battery power with auto power off • Read measurements easily with large, backlit display • CAT IV 600V overvoltage category rating for added user protection • 1 year warranty
Specifications: • Resistance: 0.1Ω ~ 20.00kΩ • AC/DC voltage: 0.1V ~ 600V
Includes: • Remote probe • Test leads • Probes • Alligator clips

Fluke 1587 Insulation Multimeter

Features: • Large display with backlight • Live circuit detection prevents insulation test if voltage >30V is detected for added user protection • Auto-discharge of capacitive voltage for added user protection • AC/DC voltage, DC mV, AC/DC mA, Resistance (Ω), Continuity • Filter for motor drive measurements (Fluke 1587 only) • Capacitance, Diode test, Temperature, Minimum/Maximum, Frequency (Hz) (Fluke 1587 only) • Auto power off to save battery power • CAT III 1000V, CAT IV 600V measurement category • 3 year warranty
Includes: • Remote probe • Test leads • Probes • Alligator clips • K-type thermocouple (Fluke 1587 only)

Insulation Test Range	Insulation Test Voltages	Digi-Key Part No.	Price Each	Fluke Part No.
0.01MΩ ~ 10GΩ	50V, 100V, 250V, 500V, 1000V	614-1013-ND	453.95	FLUKE-1507
0.01MΩ ~ 2GΩ	50V, 100V, 250V, 500V, 1000V	614-1016-ND	621.95	FLUKE-1587

Digital Multimeter

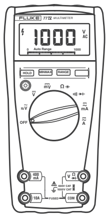

Features:

- Wide 1000V measurement range
- Average responding AC measurements
- 0.3% accuracy
- 10 Amps continuous (20A for 30 seconds)
- Frequency and capacitance
- Resistance and continuity

614-1085-ND (FLUKE-77-4) **$256.95**

True-RMS Multimeter with Temperature

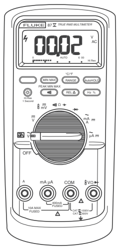

FLUKE-83-5

Features: • Large display digits and two-level bright white backlight for increased visibility • 10,000µF capacitance range • Measures up to 1000V AC and DC • Measures up to 10A, 20A for up to 30 seconds • Resistance, continuity and diode test • Frequency to 200kHz and % duty cycle • Minimum/Maximum/Average recording • Low Pass Filter for accurate voltage and frequency measurements on adjustable speed motor drives • Limited lifetime warranty • CAT IV 600V and CAT III 1000V electrical safety ratings

Includes: • TL75 Test Leads • AC72 Alligator Clips • Holster • 9V battery installed • Temperature probe (87V only) • CD-ROM User's manual

FLUKE-87-5

Features: • True-rms AC voltage and current measurements • 4½ digit mode for precise measurements • Large display digits and two-level bright white backlight for increased visibility • 10,000µF capacitance range • Measures up to 1000V AC and DC • Measures up to 10A, 20A for up to 30 seconds • Resistance, continuity and diode test • Frequency to 200kHz and % duty cycle • Minimum/Maximum/Average recording • Low Pass Filter for accurate voltage and frequency measurements on adjustable speed motor drives • Limited lifetime warranty • CAT IV 600V and CAT III 1000V electrical safety ratings

Includes: • TL75 Test Leads • AC72 alligator clips • Holster • 9V battery installed • CD-ROM User's manual

614-1086-ND (FLUKE-83-5) ***RoHS Compliant*** **$369.95**
614-1042-ND (FLUKE-87-5) **$379.95**

Industrial Electrician Combo Kit

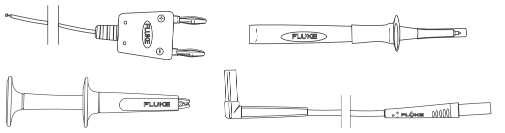

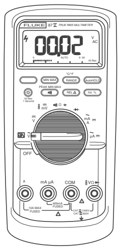

Includes: • Fluke 87V True-rms multimeter • AC220 SureGrip™ alligator clip set • C35 Lightweight soft accessory case • TL224 SureGrip silicone test lead set • 80BK-A Integrated DMM probe, type K • TP38 SureGrip Test lead set and probe set • TPAK Magnetic hanger

614-1043-ND (FLUKE-87-5/E2 KIT) **$429.95**

Fluke 8808A 5.5 Digit Multimeters

Features: • 5.5 Digit Resolution • Dual Display • Measures V DC/AC, I DC/AC, ohms, frequency, continuity, diode • Basic V DC accuracy of up to 0.015% • Minimum, Maximum, Relative, dB, dBm • 2x4 wire ohm measurement technique • Dedicated DC leakage current ranges • Six dedicated buttons for fast access to instrument setups • Hi/Lo limit compare for Pass/Fail testing • RS-232 interface

8808A/SU Includes: • Fluke 8808A package • FlukeView Forms basic software • USB to RS-232 interface adapter cable

614-1068-ND 5.5 Digit Multimeter (8808A 120V) **$775.00**
614-1069-ND 5.5 Digit Multimeter, SW USB Cable Kit (8808A/SU 120V) **$985.00**

Fluke 8845A/8846A, 6.5 Digit Precision Multimeters

Features:

• 6.5 digit resolution • Basic VDC accuracy of up to 0.0024% • Dual display • 100µA ~ 10A current range, with up to 100pA resolution • Wide ohms range from 10Ω ~ 1GΩ with up to 10µΩ resolution • 2x4 wire ohm measurement technique • Measures frequency and period (Model 8846A also measures capacitance and temperature) • Graphical display • Trendplot™ paperless recorder mode, statistics and histogram • CAT I 1000V and CAT II 600V safety ratings

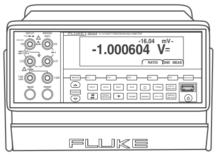

Fluke 8846A

614-1000-ND 6.5 Digit Precision Multimeter (8845A 120V) **$995.00**
614-1001-ND 6.5 Digit Precision Multimeter, Software and Cable Included (8845A/SU 120V) **$1195.00**
614-1002-ND 6.5 Digit Precision Multimeter, USB Memory (8846A 120V) **$1395.00**
614-1003-ND 6.5 Digit Precision Multimeter, USB Memory, Software and Cable Included (8846A/SU 120V) **$1595.00**
614-1057-ND Single Rack Mount Kit (Y8846S) **$95.00**
614-1056-ND Dual Rack Mount Kit (Y8846D) **$125.00**
614-1005-ND USB to RS232 Cable Adapter (884X-USB) **$150.00**
614-1053-ND 2x4 Wire Ohm Test Lead Probe (TL2X4W-PTII) **$75.00**

Clamp Meters

Model	**Fluke 321**	**Fluke 322**	**Fluke 333**	**Fluke 334**	**Fluke 335**	**Fluke 336**	**Fluke 337**
AC Amps (A)	0 ~ 400	0 ~ 40 40 ~ 400	0 ~ 400	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 999.9
AC Response	Averaging	Averaging	Averaging	Averaging	True-rms	True-rms	True-rms
DC Amps (A)	—	—	—	—	—	0 ~ 600	0 ~ 999.9
AC Voltage (V)	0 ~ 400 0 ~ 600	0 ~ 400 0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0~600
DC Voltage (V)	—	0 ~ 400 0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600
Resistance (Ω)	0 ~ 400	0 ~ 400	0 ~ 600	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000
Frequency (Hz)	—	—	—	—	—	—	5 ~ 400
Min/Max Record	No	No	No	No	No	No	Yes
Backlight	No	No	No	No	Yes	Yes	Yes
Auto Shut-Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inrush Mode	No	No	No	Yes	Yes	Yes	Yes
Safety Rating	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII
Warranty	2 year	2 year	3 Years	3 Years	3 Years	3 Years	3 Years

Digi-Key Part No.	**Price Each**	**Fluke Part No.**
614-1026-ND	102.95	FLUKE-321
614-1027-ND	111.95	FLUKE-322
614-1028-ND	150.95	FLUKE-333A
614-1029-ND	171.95	FLUKE-334A
614-1030-ND	231.95	FLUKE-335A
614-1031-ND	317.95	FLUKE-336A
614-1032-ND	368.95	FLUKE-337A

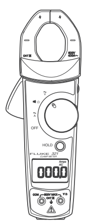

Fluke 321

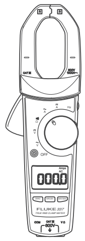

Fluke 337

Fluke 50 Series II Thermometers

Fluke 50 Series II

Features:

• Relative time clock on MIN, MAX, and AVG provides a time reference for major events • Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy • Measures J, K, T and E-types of thermocouples • Readout in °C, °F or Kelvin (K) • Sleep mode increases battery life; 1000-hour battery life • 3 year warranty

Fluke 54 Series II

Features:

• Time of day clock on MIN, MAX, and AVG provides a time reference for major events • Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy • Measures J, K, T, E, N, R, and S-types of thermocouples • Readout in °C, °F, or Kelvin (K) • Sleep mode increases battery life; 1000-hour battery life • 3 year warranty • Large backlit dual display shows any combination of T1, T2 (52 and 54 only), T1-T2 (52 and 54 only), plus MIN, MAX, or AVG • Log up to 500 data points to internal memory • Recall function allows logged data to be easily reviewed on the meter display • Data can be exported to optional FlukeView Forms® Temperature PC software for further analysis and graphing

Fluke 54 II

Digi-Key Part No.	**Price Each**	**Fluke Part No.**
614-1033-ND	225.00	FLUKE-51-2 60HZ
614-1034-ND	270.00	FLUKE-52-2 60HZ
614-1036-ND	369.00	FLUKE-54-2 60HZ

Fluke 60 Series Handheld Infrared Thermometers

Model	**Fluke 62**	**Fluke 63**	**Fluke 68**
Backlit Display	Yes	Yes	Yes
Temperature	-30°C ~ 500°C -20°F ~ 932°F	-32°C ~ 545°C -25°F ~ 999°F	-32°C ~ 760°C -25°F ~ 1400°F
MIN/MAX/AVG	MAX	MAX	All
Datalogging	N/A	N/A	Yes
Distance to Spot Ratio	10:1 at 80% energy	12:1	50:1
Optional RTD Probe	N/A	N/A	Yes
Emissivity	Fixed at 0.95		Digitally adjustable (from 0.1 ~ 1.0 by 0.01)

Digi-Key Part No.	**Price Each**	**Fluke Part No.**
614-1038-ND	99.50	FLUKE-62
614-1039-ND	280.00	FLUKE-63
614-1041-ND	650.00	FLUKE-68

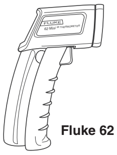

Fluke 62

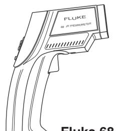

Fluke 68

Multipurpose Thermometers

Fluke 561

Applications:

- Multipurpose thermometer for heating, ventilation, air conditioning and refrigeration inspections

Specifications:

- Temperature: -40°C ~ 550°C (-40°F ~ 1022°F) • Distance to Spot Size: 12:1 • Easy Emissivity Selector: Adjustable with three settings; Low (0.3), Medium (0.7), High (0.95) • Laser Sighting: Single Point Laser

Includes:

- K-type thermocouple velcro pipe probe • Durable hard case • 2 AA batteries • User's manual • 2 year warranty

614-1037-ND (FLUKE-561) **$165.00**

Fluke 566

Applications:

- Electrical, mechanical, plant, diesel and HVAC

Specifications:

- Temperature: -40°C ~ 650°C (-40°F ~ 1200°F) • Distance to Spot Size: 30:01:00

Includes:

- 2 AA batteries • Durable hard case • 2 year warranty

614-1072-ND (FLUKE-566) **$379.00**

Fluke 568

Applications:

- Electrical, mechanical, plant, diesel and HVAC

Specifications:

- Temperature: -40°C ~ 800°C (-40°F ~ 1470°F)
- Distance to Spot Size: 50:01:00

Includes:

- 2 AA batteries • Durable hard case • 2 year warranty

614-1073-ND (FLUKE-568) **$499.99**

411D / 416D / 421D Laser Distance Meters

The Fluke laser distance meters use the most advanced distance measuring technology. These meters are fast, accurate, durable, and easy to use - just point and shoot. Their simple design and easy one-button operation means you spend less time measuring while increasing the reliability of the answers that you need.

Fluke 411D

Specifications:

- Range: 0.1m ~ 30m (0.33 ft ~ 100 ft)
- Measuring Accuracy: ±3 mm (±0.118 in.)
- Pythagoras (Indirect measurement): Simple
- Ingress Protection: IP40

614-1084-ND (FLUKE-411D) **$109.00**

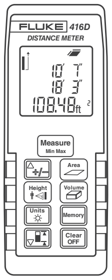

416D

Fluke 416D

Specifications:

- Range: 0.05m ~ 60m (0.16 ft ~ 200 ft.)
- Measuring Accuracy: ±1.5 mm ±(0.059 in.)
- LCD Illumination
- Data Locations: 10
- Min./Max.
- Audible feedback
- Pythagoras (Indirect measurement): Full
- Ingress Protection: IP54

614-1087-ND (FLUKE-416D) **$229.00**

NEW! Fluke 421D

Specifications:

- Range: up to 100m (330 ft.)
- Measuring Accuracy: up to 1.5mm (0.06 in.)
- Pythagoras (Indirect measurement): Full
- Ingress Protection: IP54

614-1156-ND (FLUKE 421D) **$369.00**

Test Equipment and Accessories

T+ Electrical Tester

Includes:

- Three ways to detect AC/DC voltage: Light, Sound, and Vibration
- 2 AAA alkaline batteries
- Extra heavy-duty test leads and probes (removable)
- Test lead strap for managing leads
- User's manual with safety information
- 2 year warranty

614-1047-ND 12V ~ 600V AC/DC (T+)...................... **$47.50**

Fluke T5 Voltage, Continuity and Current Tester

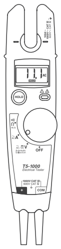

Features:

- Automatically measures volts AC and DC with precise digital resolution
- Displays resistance to 1,000Ω
- Easy and accurate OpenJaw™ AC current measurement 100A
- Continuity beeper
- Auto off mode to conserve battery life
- 2 year warranty

614-1051-ND 600V AC/DC,
CAT III (T5-600 USA)......................... **$104.95**

Fluke VoltAlert™

Fluke-1LAC-A-II

Fluke VoltAlert are CAT IV 1000V pocket-sized voltage detectors. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel and homeowners can quickly test for energized circuits in the workplace or at home.

614-1024-ND ACV Detector 90V ~ 1,000V, Flat-tip
(FLUKE-1AC-A1-II) **$25.95**

614-1025-ND Low Voltage Detector 20VAC ~ 90VAC, Round-tip
(FLUKE-1LAC-A-II) **$25.95**

LVD2 Volt Light

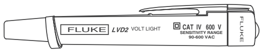

Non-contact AC voltage detector and LED flashlight combined into one easy to use pen-style design.

Features:

- Detects from 90V ~ 600V AC
- Rated to CAT IV 600V
- Blue indicates proximity to AC voltage source
- Red indicates you're at the source
- Ultra-bright white LED
- AAA battery included

614-1045-ND (LVD2)... **$32.10**

i30/i30S AC/DC Clamp

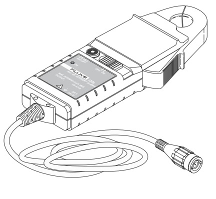

The i30 and i30S current clamps are based on Hall Effect technology for use in measurement of both DC and AC current. The i30 may be used in conjunction with multimeters, recorders, and other suitable recording instruments for accurate non-intrusive current measurement. The i30s may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.

Features:

- Maximum conductor size: 19mm diameter
- Current Range: 30mA ~ 30A DC, 30mA ~ 20A AC RMS
- Measuring Range: ±30A
- Accuracy (at 25°C): ±1% of reading ±2mA
- Frequency Range: DC to 20kHz (i30); DC to 100kHz (i30S)

614-1070-ND (i30).. **$382.99**

614-1071-ND (i30S)... **$510.49**

i400 AC Current Clamp

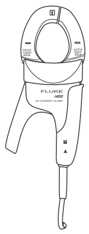

This clamp is compatible with most Fluke multimeters or any other current measurement device that accepts 4mm-shrouded banana plugs and has an AC milliamp range. The division ratio is 1000:1.

Features:

- Companion to your DMM to measure up to 400A AC
- 1mA/Amp output guarantees easy reading
- Only current clamp available with a CAT IV 600V/ CAT III 1000V safety rating
- Takes accurate current readings without breaking the circuit
- Soft non-slippery overmold handle prevents touching live wiring
- Maximum conductor diameter: 32mm

614-1044-ND (i400) **$124.49**

TL71 Premium Test Lead Set

Features:

- One pair (red, black) comfort grip probes with silicone insulated, right-angle test leads
- CAT IV 600V, CAT III 1,000V, 10A rating and UL Listed

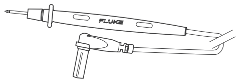

- One year warranty

614-1054-ND (TL71) **$21.65**

Replacement Fuses

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each	Fluke Part No.
440mA	1000	614-1083-ND	6.15	943121
	1000	614-1077-ND	22.42	203414
630mA	250	614-1079-ND	9.08	871173
1A	600	614-1080-ND	14.38	871207
11A	1000	614-1076-ND	41.58	203406
	1000	614-1078-ND	8.25	803293
15A	600	614-1081-ND	24.01	871223
	600	614-1082-ND	9.49	892583

Note: For replacement fuse information, contact tech support

ToolPak™ Meter Hanging Kit

Features:

- Attaches to back of a 110/170/180 Series meter, 20/70-III with integrated holster (with adapter), 724/725 and 50 Series II
- One year warranty

Includes:

- 2 universal hanger clips
- Hook and loop straps (2 lengths)
- Strong magnet

614-1055-ND (TPAK)...**$33.15**

Soft Case

C25 Large Soft Case for DMMs

Features:

- Zippered carrying case with padding and inside pocket
- One year warranty

614-1006-ND (C25) **$31.00**

ScopeMeter® 120 and 190 Series

Fluke 120 - The rugged solution for industrial troubleshooting and installation applications. It's a truly integrated test tool, with oscilloscope, multimeter and "paperless" recorder in one affordable, easy-to-use instrument. Find fast answers to problems in machinery, instrumentation, control and power systems. **Features:** • Digital oscilloscope • Dual input TrendPlot recorder • 600V CAT III safety certified

Fluke 190 - For demanding applications, this high-performance oscilloscope offers specifications usually found on top-end bench instruments. With up to 200MHz bandwidth, 2.5 GS/s real time sampling and a deep memory of 27,500 points per input, they're ideal for engineers who need the full capabilities of a high-performance scope in a handheld, battery powered instrument. **Features:** • Dual input - 200, 100 or 60MHz bandwidth • Up to 2.5 GS/s real time sampling per input • High waveform resolution of 3000 datapoints per channel • Frequency Spectrum using FFT analysis

Fig. 1

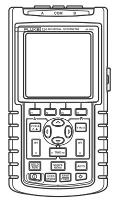

Fig. 2

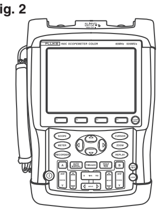

Fig. 3

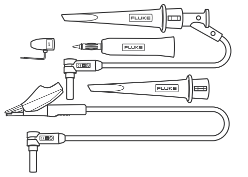

Fig.	Digi-Key Part No.	Price Each	Fluke Part No.
1	614-1105-ND	1385.00	FLUKE-123/003
	614-1106-ND	1715.00	FLUKE-123/003S
	614-1107-ND	1715.00	FLUKE-124/003
	614-1108-ND	1999.00	FLUKE-124/003S
2	614-1109-ND	2807.00	FLUKE-192C/003
	614-1110-ND	3286.00	FLUKE-192C/003S
	614-1111-ND	3229.00	FLUKE-196C/003
	614-1112-ND	3672.00	FLUKE-196C/003S
	614-1113-ND	3579.00	FLUKE-199C/003
	614-1114-ND	4069.00	FLUKE-199C/003S

ScopeMeter® Accessories

Fig.	Description	Digi-Key Part No.	Price Each	Fluke Part No.
—	Rechargeable Battery Pack Ni-MH	614-1097-ND	89.00	BP120MH
	Rechargeable Battery Pack Ni-MH	614-1099-ND◆	135.00	BP190
	Hard Carrying Case For 120 Series	614-1100-ND◆	98.00	C120
	Compact Soft Case for 120 Series	614-1101-ND◆	33.00	C125
	Heavy Duty Hard Case for 190 Series	614-1102-ND◆	162.00	C190
	Soft Case for 190 Series	614-1103-ND◆	145.00	C195
3	Optical Cable for USB	614-1118-ND	167.00	OC4USB
	Print Adapter Cable	614-1119-ND	261.00	PAC91
	Power Adapter/Battery charger, universal	614-1120-ND	89.00	PM8907/808
	Probe Scope replacement set	614-1131-ND◆	94.00	RS200
—	Cable, Carrying case and software kit	614-1132-ND◆	343.00	SCC120E
	Cable, Carrying case and software	614-1133-ND◆	479.00	SCC190EFG
	Flukeview ScopeMeter software	614-1136-ND◆	249.00	SW90W/034EFG
	Battery Charger/Power Adapter	614-1096-ND	104.00	BC190/808
	Optically Isolated RS-232 Adapter	614-1122-ND	172.00	PM9080/101
	Cable Coax BNC 50Ω 1.5M Black (set of 3)	614-1126-ND◆	78.00	PM9091/001
	Cable Coax BNC 50Ω 0.5M Black (set of 3)	614-1127-ND◆	68.00	PM9092/001

◆ *RoHS Compliant*

ScopeMeter® Probes

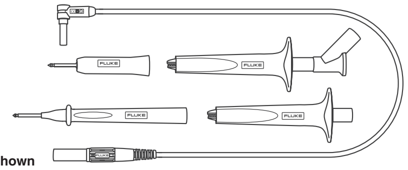

614-1093-ND shown

Description	Digi-Key Part No.	Price Each	Fluke Part No.
Current Probe for ScopeMeter AC/DC, 0A ~ 100A	614-1090-ND	595.00	80I-110S
AC/DC Current Probe, 0A ~ 600A	614-1091-ND	355.00	90I-610S
Probe Accessory Set, Gray	614-1093-ND◆	73.00	AS200-G
Probe Accessory Set, Red	614-1094-ND◆	73.00	AS200-R
Differential Voltage Probe	614-1104-ND◆	551.00	DP120
Isolated Trigger Probe	614-1117-ND	295.00	ITP120
Secondary Pick up 1000:1	614-1129-ND	263.00	PM9096/201
Voltage Probe Set, 100MHz, Red/Gray	614-1137-ND◆	358.00	VPS100
10:1 Voltage Probe, 100MHz, Red	614-1138-ND◆	187.00	VPS100-R
1:1 Voltage Probe, 12MHz, Black, 1.2M	614-1139-ND◆	182.00	VPS121
100:1 Voltage Probe Set, 200MHz, 1.2M	614-1142-ND◆	358.00	VPS201
10:1 Voltage Probe, 200MHz, Gray, 1.2M	614-1143-ND◆	182.00	VPS210-G
10:1 Voltage Probe, 200MHz, Red, 1.2M	614-1144-ND◆	182.00	VPS210-R
10:1 Voltage Probe, 200MHz, Gray, 2.5M	614-1145-ND◆	182.00	VPS212-G
10:1 Voltage Probe, 200MHz, Red, 2.5M	614-1146-ND◆	182.00	VPS212-R
100:1 Voltage Probe, 200MHz, Gray, 1.2M	614-1147-ND◆	182.00	VPS220-G
100:1 Voltage Probe, 200MHz, Red, 1.2M	614-1148-ND◆	182.00	VPS220-R
10:1 Voltage Probe Set, 75MHz, 2.5M	614-1149-ND◆	358.00	VPS250
10:1 Voltage Probe Set, 40MHz	614-1150-ND◆	129.00	VPS40

◆ *RoHS Compliant*

Adaptors, Clips and Test Leads

Fig. 1

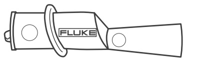

Fig. 2

Fig. 3

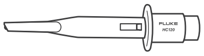

Fig. 4

Fig. 5

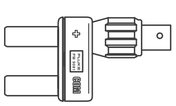

Fig. 6

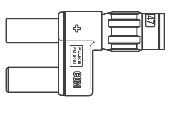

Fig. 7

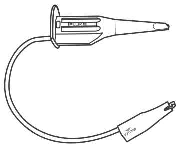

Fig. 8

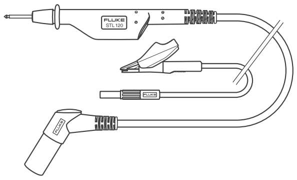

Fig. 9

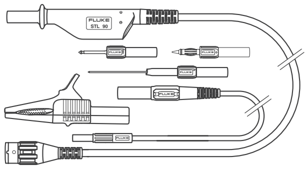

Fig.	Description	Digi-Key Part No.	Price Each	Fluke Part No.
1	Alligator Clip (Set of 3)	614-1092-ND	26.00	AC120
2	Shielded Banana to Female BNC Adapter (Set of 2)	614-1095-ND◆	29.00	BB120
3	Hook Clip set of 2 (1 Red and 1 Gray)	614-1115-ND◆	35.00	HC120
4	Hook Clip set of 4 (2 Red and 2 Gray)	614-1116-ND◆	33.00	HC200
5	Dual Banana Plug Male to Female BNC Adapter (set of 2)	614-1123-ND◆	39.00	PM9081/001
6	Dual Banana Jack (Female) to Male BNC Adapter	614-1124-ND◆	39.00	PM9082/001
—	Probe Industrial Pin Grabber Flexible Clip	614-1125-ND◆	43.00	PM9090/001
7	Mini Test hook (set of 4) for PM8918	614-1128-ND◆	52.00	PM9094/101
8	Shielded Test Lead (set of 2)	614-1134-ND◆	114.00	STL120
9	Shielded Test Lead Set	614-1135-ND◆	187.00	STL90

◆ *RoHS Compliant*

Pressure Calibrators

Fluke 719

Provides pressure calibration at your fingertips. You can calibrate and test pressure devices quickly and easily with one hand, saving you valuable time. Use the programmable pump limit settings to eliminate over-pressurization, and to set "pump to" pressure valves. The compact, lightweight form, combined with one-handed use, makes this pressure calibrator the ideal tool for busy process professionals.

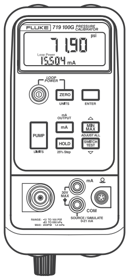

Description	Digi-Key Part No.	Price Each	Fluke Part No.
Electric Pressure Calibrator, 30PSI	614-1088-ND	3144.38	FLUKE-719 30G
Electric Pressure Calibrator, 100PSI	614-1089-ND	3144.38	FLUKE-719 100G

Fluke 771/789 ProcessMeters™

Fluke 771 - Measure 4 ~ 20mA signals without breaking the loop with this new, compact clamp meter for PLC and control systems analog I/O. The detachable clamp with extension cable allows you to take measurements in tight locations, and the built-in spot light illuminates hard to see wires in dark enclosures. Count on best in class accuracy of 0.2%. Measure mA signals with 0.01mA resolution.

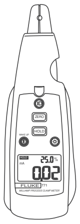

614-1074-ND **$499.00**

Fluke 789 - The ultimate loop calibration multimeter. The Fluke 789 has a 24-Volt loop supply reducing the need for taking a separate power supply when doing offline transmitter testing. And with its built-in, selectable 250Ω Hart® resistor, it also eliminates the need to carry a separate resistor with you.

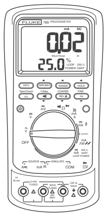

614-1075-ND **$819.00**

AMPROBE®

XR Series Digital Multimeters

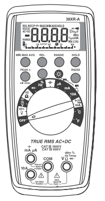

38XR-A

Model	33XR-A	37XR-A	38XR-A
AC/DC Voltage	1000V/750V	1000V/750V	1000V/750V
AC/DC Current	10A/10A	10A/10A	10A/10A
Resistance	4MΩ	40MΩ	40MΩ
Basic DC Accuracy	± (0.7%Rdg + 1dgt)	± (0.1%Rdg + 5dgt)	± (0.25%Rdg + 5dgt)
Continuity	Yes	Yes	Yes
Capacitance	Yes	Yes	Yes
Frequency	Yes	Yes	Yes
Temperature	Yes	No	Yes
Display	3¾ digit	4¾ digit	4¾ digit
Min/Max	Yes	Yes	Yes
Data Hold	Yes	Yes	Yes
Logic Test	No	TTL, CMOS	No
Non-Contact Voltage Detect	No	No	No
Warranty	1 year	3 year	3 year
Safety Ratings	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT III 1000V CAT IV 600V
UL (CULUS) Listed	Yes	Yes	No

Includes	Digi-Key Part No.	Price Each	Amprobe Part No.
Test leads, Alligator clips, Magne-Grip holster, Temperature adapter, Thermocouple probe, Battery, Fuse, User's manual	705-1002-ND	95.94	33XR-A
Test leads, Alligator clips, Magne-Grip holster, Battery, Fuse, User's manual	705-1004-ND	149.95	37XR-A
Test leads, Alligator clips, Temperature adapter, Thermocouple probe, Magne-Grip holster, Battery, Fuse, User's manual	705-1005-ND	179.95	38XR-A

Clamp Type Multimeter

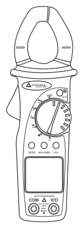

Features:
- Resistance
- Continuity
- Min/Max
- Data hold

Specifications:
- **AC/DC Voltage:** 600V/600V
- **AC/DC Current:** 40A/400A
- **Basic DC Accuracy:** ±(1.0% Rdg + 2 LSD)
- **Safety Ratings:** CAT III 600V
- **Warranty:** Limited Lifetime

Includes:
- Test leads
- Holster
- Carrying case
- Batteries
- Instruction manual

705-1013-ND (ACDC-400).. **$179.95**

Test Equipment

AT4005 Advanced Wire Tracer

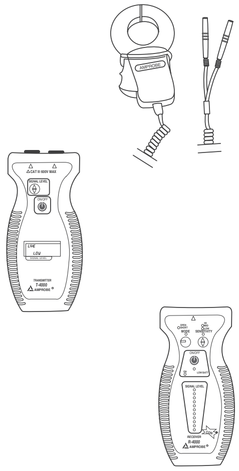

Features:
- One universal transmitter; automatically switches to work with either energized or non-energized systems
- Receiver not position sensitive
- Traces live wires buried or hidden behind walls
- Locates breakers, neutrals and ground lines
- Pinpoints shorts, ground faults and broken wires
- Clamp-on attachment injects signal for non-contact operation
- Safety rating: CAT III 600V

Includes:
- Hard carrying case
- Receiver
- Transmitter
- 110V pigtail - banana plug cord set
- Alligator clip - banana plug cord set
- Grounding test lead, 25 ft. with alligator clip
- Clamp-on transmitter accessory
- Rechargeable battery pack and battery pack recharger

705-1021-ND (AT-4005CON) **$999.95**

Kaltman Creations LLC
"First to Market" Solutions

RF Spectrum Analyzers

RoHS COMPLIANT

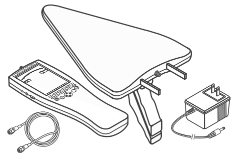

Analyzer Bandwidth (MHz ~ GHz)	Filter Bandwidth Min. ~ Max. (kHz ~ MHz)	Typical Accuracy (dB)	Included Antenna Bandwidth (MHz ~ GHz)	Digi-Key Part No.	Price Each	Kaltman Creations Part No.
10 ~ 4	100 ~ 50	±3	400 ~ 4	774-1000-ND	1595.00	SPECTRAN HF4040
10 ~ 6	100 ~ 50	±3	400 ~ 6	774-1001-ND	1895.00	SPECTRAN HF4060
1 ~ 6	100 ~ 50	±3	400 ~ 6	774-1002-ND	2950.01	SPECTRAN HF6060
Accessories						
Boot Protect Rubber for Analyzer				774-1015-ND	79.00	RPB
Battery 3000MAH Aaronia Analyzer				774-1016-ND	170.00	AA3000MAH

NEW! Antennas

RoHS COMPLIANT

Fig.	Frequency	Digi-Key Part No.	Price Each	Kaltman Creations Part No.
Antenna LOG				
1	680MHz ~ 10GHz	774-1008-ND	2360.01	HYPERLOG60100
	400MHz ~ 6GHz	774-1009-ND	1374.99	HYPERLOG4060
	700MHz ~ 2.5GHz	774-1010-ND	495.00	HYPERLOG7025
	700MHz ~ 6GHz	774-1011-ND	875.00	HYPERLOG7060
	380MHz ~ 18GHz	774-1017-ND	5894.98	HYPERLOG30180
Antenna Isotropic				
2	20MHz ~ 3GHz	774-1012-ND	3649.00	BICOLOG20300
	20MHz ~ 1GHz	774-1013-ND	3297.98	BICOLOG20100
3	700MHz ~ 2.5GHz	774-1014-ND	178.00	OMNILOG90200

Fig. 1

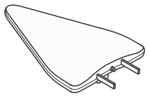

Fig. 2

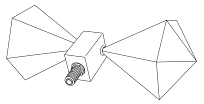

Fig. 3

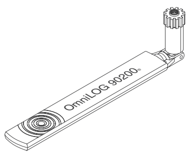

BK PRECISION
ELECTRONIC TEST INSTRUMENTS

DC Power Supplies

Regulated 28A DC Power Supplies

Models 1689, 1690:

Features: • Overload protection • High RFI stability • Multiple DC output terminals

Specifications: • **Output Voltage:** DC 1 ~ 15V Variable • **Output Current:** 28A (at 13.8V) • **Ripple and Noise:** 5mV (peak to peak) • **Line Regulation:** 5mV (± 2% Load) • **Load Regulation:** 50mV (0 ~ 100% Load)

BK1689-ND	Precision Analog	**$295.00**
BK1690-ND	Digital LED	**$370.00**

Single Output DC Power Supply

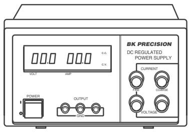
Model 1621A

Model 1621A:

Features: • Connect two supplies in parallel to double the current output • Connect two supplies in series to double the voltage output • Operate continuously at full load without overheating • Fully overload protected • Coarse and fine voltage controls • Low ripple • Continuously monitor voltage and current output on two meters

Specifications: • **Output Voltage:** 0 ~ 18V • **Output Current:** 0 ~ 5A

BK1621A-ND	Single Output DC Power Supply	**$229.00**

Switch Mode DC Power Supply

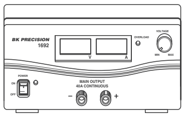
Model 1692

Model 1692:

The 1692 Switching Mode DC Power Supply provides high current output in a lightweight and compact package. It is suitable for a variety of uses, especially for powering DC operated mobile radio equipment on the bench. It provides a variable voltage output from 3V ~ 15V at 40A continuous operation. In addition a fixed 13.8VDC output is also selectable by a variable control knob.

Features: • High efficiency • Current fold-back circuitry with illuminated indicator prevents overloading the power supply • Over temperature protection circuitry • Over voltage protection prevents abnormal high output voltage • High RFI stability

Specifications: • **Output Voltage:** 3 ~ 15VDC (adjustable) or fixed 13.8VDC (selectable) • **Output Current:** 40A continuous

BK1692-ND	Switch Mode Power Supply	**$319.00**

Switching DC Power Supply with USB Charger

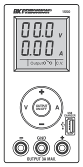

Model 1550:

The 1550 is a compact 108W power supply delivering 1.0V ~ 36V and 0 ~ 3A from its main isolated output. A unique feature of the 1550 power supply is the USB charging port located on the front panel allowing the user to charge a cell phone or MP3 player. Clean power and quiet operation make this power supply ideal for any bench in laboratories, work shops and schools where bench space is limited.

BK1550-ND	1.0 ~ 36V, 0 ~ 3A	**$139.00**

High Current Linear Power Supplies

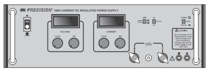
Model 1794 and 1795

Models 1791, 1790, 1794, and 1795:

Features: • Constant Voltage/Constant Current Operation • Load Current Limits • Separate DC Output ON/OFF Switch • Metering: LED

BK1791-ND	0 ~ 64V, 10A	**$1525.00**
BK1790-ND	0 ~ 32V, 20A	**$1495.00**
BK1794-ND	0 ~ 32V, 30A	**$1895.00**
BK1795-ND	0 ~ 64V, 15A	**$1895.00**

100W Multi Range DC Power Supply

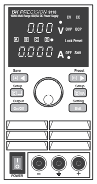

Model 9110:

The 9110 is a new type of power supply. Unlike conventional power supplies with fixed output ratings, the 9110 automatically recalculates voltage/current limits for each setting, forming a constant power hyperbolic shaped boundary. It provides 100W output power in any Volt/Amp combination within the rated voltage (60V) and current (5A) limits. By providing greatly expanded choices of Volt/Amp combinations, users can cut down on the number of power supplies required and free up valuable bench space.

BK9110-ND	0 ~ 60V, 0 ~ 5A	**$275.00**

Power Supply Hook-up Cables

TL-5A-ND	5A Power Supply Leads	**$10.63**
BKTL-30-ND	30A Power Supply Leads	**$13.81**

NEW! High Power Switching Power Supplies

For bench top applications, these power supplies offer built-in voltage and current meters displaying setting and output values concurrently, as well as an intuitive user interface with full keypad and rotary knob.

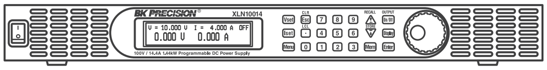

BKXLN3640-ND	36V, 40A, RS485	**$2527.78**
BKXLN6024-ND	60V, 24A, RS485	**$2527.78**
BKXLN8018-ND	80V, 18A, RS485	**$2527.78**
BKXLN10014-ND	100V, 14A, RS485	**$2527.78**

DC Power Supplies to 240W Output

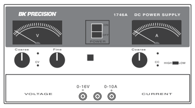
Model 1740B

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.2% +2mV line and 0.04%+2mV load regulation (zero to full load), adjustable current limits (five to 100%), low ripple (≤1mVrms), fast recovery time (≤100μS), and operate from 120VAC ±10%, 60Hz. **Dimensions:** 5.7" x 10.5" x 15". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty**.

Model 1746B: Single 0 ~ 16V, 0 ~ 10A output. Two analog meters • **Voltmeter:** 0 ~ 16V ±2.5% • **Ammeter:** High Range = 0 ~ 11A, Low Range = 0 ~ 2.2A, Accuracy = ±2.5% • **Power Consumption:** 380W

Model 1740B: Single 0 ~ 60V, 0 ~ 4A output. Two analog meters • **Voltmeter:** 0 ~ 64V ±2.5% • **Ammeter:** High Range = 0 ~ 4.4A, Low Range = 0 ~ 1.1A, Accuracy = ±2.5% • **Power Consumption:** 450W

Model 1743B: Single 0 ~ 35V, 0 ~ 6A output. Two 4-digit LED meters • **Voltmeter:** 0 ~ 99.9V (green) ±(0.5% rdg + 9 digits) • **Ammeter:** High Range = 0 ~ 9.99A (red), Accuracy = ±(0.5% rdg + 9 digits) • **Power Consumption:** 420W

Model 1745A: Output- shorting button • **Output Voltage:** 0 ~ 35VDC • **Output Current:** 0 ~ 10A

BK1746B-ND		**$539.00**
BK1740B-ND		**$539.00**
BK1743B-ND		**$539.00**
BK1745A-ND	DC Power Supply	**$719.00**

Single Output DC Power Supplies

Model 1730A

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.01% +3mV line and load regulation (zero to full load), adjustable current limits (5 to 100%), low ripple (≤1mVrms), fast recovery time (≤100μS), and operate from 120 VAC ±10%, 60Hz. **Dimensions:** 6.2" x 5.5" x 12.5". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty**.

Model 1710A: Single 0 ~ 30V, 0 ~ 1A output. Two analog meters • **Voltmeter:** 0 ~ 32V ±2.5% • **Ammeter:** High Range = 0 ~ 1.04A, Low range = 0 ~ 0.26A, Accuracy = ±2.5% • **Power Consumption:** 70W

Model 1711A: Single 0 ~ 60V, 0 ~ 2A output. Two analog meters • **Voltmeter:** 0 ~ 64V ±2.5% • **Ammeter:** High Range = 0 ~ 2.2A, Low range = 0 ~ 0.55A, Accuracy = ±2.5% • **Power Consumption:** 210W

Model 1715A: Single 0 ~ 60V, 0 ~ 2A output. Two 4-digit LED meters • **Voltmeter:** 0 ~ 99.9V (green) ± (0.5% rdg + 9 digits) • **Ammeter:** Range = 0 ~ 9.99A (red), Accuracy = (0.5% rdg + 9 digits) • **Power Consumption:** 210W

Model 1730A: Single 0 ~ 30V, 0 ~ 3A output. Two analog meters • **Voltmeter:** 0 ~ 32V ±2.5% • **Ammeter:** High Range = 0 ~ 3.2A, Low range = 0 ~ 0.53A, Accuracy = ±2.5% • **Power Consumption:** 180W

Model 1735A: Single 0 ~ 30V, 0 ~ 3A output. Two 4-digit LED meters • **Voltmeter:** 0 ~ 99.9V ±0.5% • **Ammeter:** Range = 0 ~ 9.99A, Accuracy = ±0.5% • **Power Consumption:** 180W

BK1710A-ND	**$249.00**
BK1711A-ND	**$329.00**
BK1715A-ND	**$409.00**
BK1730A-ND	**$329.00**
BK1735A-ND	**$409.00**

Triple Output Power Supplies

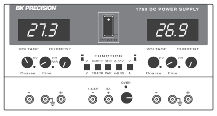
Model 1760A and 1761

Two Main sections capable of independent or tracking operation (Master and Slave). One fixed section. Switchable series/parallel operation and adjustable current limit controls for Main sections. Two displays: one reads volts or amps of "slave" supply; one reads volts or amps of "master" supply or fixed supply. Constant current and voltage indicators for Main sections • **Power Source:** 120VAC, +10% 60Hz • **Accessories Supplied:** Spare fuse, Instruction Manual, Power Cord. Test Lead Set TL-5A is sold separately.

Model 1651A: • Two 0 ~ 24VDC 500mA sections; One 5VDC 4A section. Switchable series/parallel operation for 24V sections. • Two Analog Displays. **Accessories Included:** • Test leads (3 Pairs) • **Dimensions:** 5.5" x 11.75" x 10.975" **1 Year Warranty**.

Model 1760A: Two 0 ~ 30VDC, 0 ~ 2A sections; One 4 ~ 6.5VDC 5A section. Switchable series/parallel operation for 30V sections. Two 4-Digit LED Displays • **Dimensions:** 5.7" x 10.5" x 15" **2 Year Warranty**.

Model 1761: • Two 0 ~ 35VDC, 0 ~ 3A sections; One 2 ~ 6.5VDC, 5A section; Two 4-digit LED displays • Fully Overloaded protection. **2 Year Warranty**.

Model 1762: • 0-60V/0-2A on 2 outputs and 4-6.5V/4A on 1 output. • The 4 digit LED display offers 10mV and 1mA resolution, providing the capability to set voltage and current values more accurately and precisely compared to 3 digit displays found in most comparable power supplies. • The power supply is fully overload protected. **2 Year Warranty**.

Model 1670A: • Produces three outputs simultaneously; **#1** = 30VDC @3A, **#2** = 12VDC @500mA and **#3** = 5VDC @500mA. • Two 3-Digit LCD Displays. • **Dimensions:** 4.9" x 8.5" x 11.5" **1 Year Warranty**.

BK1651A-ND	**$449.00**
BK1760A-ND	**$659.00**
BK1761-ND	**$699.00**
BK1762-ND	**$725.00**
BK1670A-ND	**$200.00**

Quad Display Triple Output DC Power Supply

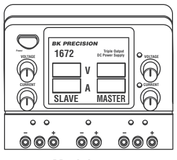
Model 1672

Model 1672:

Features:

- Independent control of Voltage and Current controls for variable output • CV/CC operation • Separate 3 digit displays for voltage (green) and current (red) for both variable outputs • LED indication for CV (green)/CC (red) mode • Overload indication LED for fixed output • Series tracking and parallel mode operation for triple output unit

Specifications: • **Output Voltage:** 0 ~ 32VDC, 0 ~ 32VDC, Fixed 5VDC • **Output Current:** 0 ~ 3A, 0 ~ 3A, Fixed 0 ~ 3A

BK1672-ND	Quad Display Triple Output DC Power Supply	**$479.00**

Programmable DC Power Supplies

Single Output — 178x Series

Models 1785B, 1786B, 1787B and 1788:

These models are Programmable DC Power Supplies that offer new levels of "ease of use" and programmable functionality. Direct key in entry makes voltage and current selection fast, accurate and easy. In case calibration allows for simple, cost savings, uninterrupted operation.

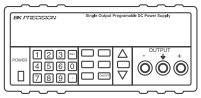

Model 1788

Features:

• Sixteen user programmable preset outputs • Controllable output On/Off switch • 10mV/10mA set-ability resolution • Closed case calibration • Low ripple and noise • Excellent temperature stability • Serial interface cable and software included (RS232 optional)

BK1785B-ND	0 ~ 18V, 0 ~ 5A DC Output	**$390.00**
BK1786B-ND	0 ~ 32V, 0 ~ 3A DC Output	**$390.00**
BK1787B-ND	0 ~ 72V, 0 ~ 1.5A DC Output	**$390.00**
BK1788-ND	32V, 0 ~ 6A	**$525.00**
BKIT-E151-ND	Rack Mount Kit for 178x Series	**$79.69**

Single Output — 912x Series

Models 9120A, 9121A, 9122A, and 9123A:

These models are laboratory grade Programmable DC Power Supplies providing great performance and features not found in other supplies in this price category. The 9120A series are designed to meet the needs of today's applications labs that require clean and reliable power, high resolution and accuracy and fast transient response time.

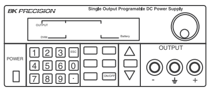

Model 9120A

Features:

• Low ripple and low noise • Outstanding temperature stability • Fast transient response time (<20ms) • SCPI compatible

BK9120A-ND	0 ~ 32V, 0 ~ 3A, RS232	**$709.00**
BK9121A-ND	0 ~ 20V, 0 ~ 5A, RS232	**$715.00**
BK9122A-ND	0 ~ 60V, 0 ~ 2.5A, RS232	**$739.00**
BK9123A-ND	0 ~ 30V, 0 ~ 5A, RS232, GPIB	**$799.00**

NEW! Single Output — 915x Series

Models 9150, 9151, 9152, 9153:

These models are high performance linear-regulated programmable DC power supplies that provide excellent performance and features not found in other supplies in this price category. The 915x series are designed for applications in design verification, production or university labs that require high yet clean and reliable power, combined with excellent resolution, accuracy and fast transient response time.

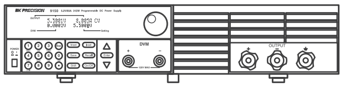

Model 9150

Features:

• Low ripple and low noise due to linear regulation • Outstanding temperature stability • SCPI compatible command set, programmable via USB and RS232 • Over voltage protection

BK9150-ND	0 ~ 5.2V, 0 ~ 60A	**$1825.01**
BK9151-ND	0 ~ 20V, 0 ~ 27A	**$1725.01**
BK9152-ND	0 ~ 30V, 0 ~ 18A	**$1725.01**
BK9153-ND	0 ~ 60V, 0 ~ 9A	**$1725.01**

Dual Output

Model 1770:

The 1770 Dual Range, Programmable Power Supply offers the best cost per watt available for virtually any application. With dual range voltages up to 17.5 or 35VDC and 3 and 6A, the versatile power supply features excellent reliability (50K hours MTBF) and user flexibility.

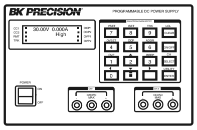

Model 1770

Features:

• Dual range outputs, either 0 ~ 17.5V, 0 ~ 6A or 0 ~ 35V, 0 ~ 3A • Programming resolution of 10mV and 2mA • Ripple and noise of 1mVrms • Remote sensing • In case calibration • Large character LCD display • GPIB Interface

BK1770-ND	**$1050.00**

Triple Output

Model 9130:

The 9130 is a fully programmable triple output DC Power supply delivering 0 ~ 30V/0 ~ 3A on 2 outputs and 0 ~ 5V/0 ~ 3A on 1 output. Each output is fully floating and outputs can be adjusted independently or connected in series or parallel to produce higher voltages or currents. The 9130 is ideally suited for application in Electronic Test, Production and Service where multiple independent DC supplies are required and bench space is at a premium

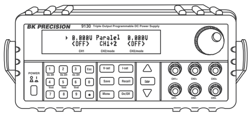

Model 9130

Features:

• SCPI compatible command set • Communicate via standard USB communication cable or optional RS232 cable • Application software for front panel emulation and simple test sequence generation included • 50 memory locations for instrument state storage and recall

BK9130-ND	Triple Output Programmable DC Power Supply	**$895.00**

Programmable DC Electronic Loads

Models 85xx: The 8500 Series programmable DC electronic loads can be used for testing and evaluating a variety of DC power sources. Their wide operating ranges of up to 500V and 240A, flexible operating modes and excellent measurement accuracy make the 8500 Series well suited for characterizing DC power supplies, DC-DC converters, batteries, fuel cells and solar cells.

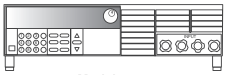

Model 8510

Power (W)	Operating Voltage (V)	Rated Current (A)	Digi-Key Part No.	Price Each	B&K Precision Part No.
150	0 ~ 60	30	BK8540-ND	499.00	8540
300	0.1 ~ 120	30	BK8500-ND	1050.00	8500
300	0.1 ~ 500	15	BK8502-ND	1150.00	8502
600	0.1 ~ 120	120	BK8510-ND	2049.99	8510
600	0.1 ~ 500	30	BK8512-ND	2494.99	8512
1200	0.1 ~ 120	240	BK8514-ND	2949.99	8514
1200	0.1 ~ 60	240	BK8518-ND	3974.99	8518
2400	0.1 ~ 120	240	BK8520-ND	5349.99	8520
2400	0.1 ~ 500	120	BK8522-ND	6649.99	8522
5000	0.1 ~ 60	240	BK8524-ND	10149.99	8524
5000	0.1 ~ 500	120	BK8526-ND	12749.99	8526

Interface Cables

BKIT-E131-ND	RS 232 Interface Kit for 1785x, 9120A, 9130 and 8500 Series	**$46.75**
BKIT-E132-ND	USB Interface Kit for 1785x, 9120A, 9130 and 8500 Series	**$52.06**

Digital Storage Oscilloscope

The 2530 and 2532 deliver essential features and reliable performance at a price you can afford. Analog style knobs and controls combined with autoset functions make these oscilloscopes easy to use. Advanced triggering, automatic measurements and FFT functions provide you with many options to debug your circuits. Additionally, the instrument comes with PC Software that lets you easily capture, save and analyze waveforms and measurement results. The 2530 and 2532 are ideal education and training tools and also well suited for applications in service and repair.

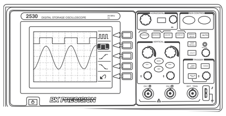

The 2534, 2540 and 2542 dual channel Digital Storage Oscilloscopes delivers an unmatched combination of performance and value. Analog style controls combined with an Auto measurement function make these oscilloscopes easy to use. Advanced features such as FFT function, digital filtering, waveform recorder, delayed sweep/zoom, mask testing and automatic measurements provide you with powerful tools to debug your circuits.

BK2530-ND	25MHz bandwidth, 250MSa/s sample rate	**$499.00**
BK2532-ND	40MHz bandwidth, 500MSa/s sample rate	**$699.00**
BK2534-ND	60MHz bandwidth, 400MSa/s sample rate	**$719.10**
BK2540-ND	60MHz bandwidth, 1GSa/s sample rate	**$940.00**
BK2542-ND	100MHz bandwidth, 1GSa/s sample rate	**$1155.00**

Function Generators

FEATURES AND SPECIFICATIONS:

Waveforms: Sine, Square, Triangle, ±Pulse, ±Ramp. Variable DC Offset and Duty Cycle. • **Sweep LIN & LOG:** 100:1 • **Frequency Counter Accuracy:** Time Base ±1 count • **General: Power:** 120 ~ 230VAC +10% 50/60Hz Internal jumper selectable • **Accessories:** BNC to Alligator Cable, Instruction Manual. **2 Year Warranty**

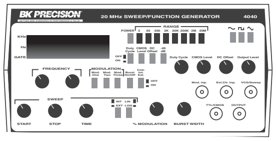

Model 4040A

Model 4007DDS: Versatile sweep function generators utilize an advanced direct digital synthesis (DDS) design. 0.1MHz ~ 7MHz frequency range (sine and square only). Lin or Log sweep function. Adjustable duty cycle. Adjustable DC offset.

Model 4013DDS: Versatile sweep function generators utilize an advanced direct digital synthesis (DDS) design. 0.1MHz ~ 12MHz Frequency Ranges (sine and square only) Lin and Log sweep function. Adjustable Duty cycle. Adjustable DC offset

Model 4001A: Function Generator in 6 Ranges from 0.5Hz ~ 4MHz Range. Coarse and Fine Tuning.

Model 4010A: 7 Ranges from 0.2Hz ~ 2MHz Range. Coarse Tuning.

Model 4011A: Function Generator. 4 Digit LED Digital Display (4 digit Display Resolution). 7 Ranges from 0.5Hz ~ 5MHz Range. Variable Duty Cycle and DC Offset. Coarse and Fine Tuning.

Model 4012A: Sweep/Function Generator. Coarse and fine tuning. 4 digit LED display. Variable duty cycle. DC offset. Linear or log sweep.

Model 4017A: 5 Digit LED Digital Display (5 digit Display Resolution). 8 Ranges from 0.1Hz ~ 10MHz Range. Coarse and Fine Tuning. Extended Sweep/Modulation Input: 0 ~ 10V.

Model 4040A: Sweep/Function Generator with Frequency Counter. 5 Digit LED Display (5 digit Display Resolution 8 Ranges from 0.2Hz ~ 20MHz Range. AM and FM Modulation. Burst Operation. 30MHz External Frequency Counter. Selectable Linear or Log Sweep. Extended Sweep/Modulation Input: 0 ~ 10V. Coarse and Fine Tuning.

Model 4084: Model 4084 is a high performance laboratory grade synthesized function generator. Direct digital synthesis (DDS) techniques are used to create stable, accurate output signals for all 27 built-in standard and complex (arbitrary) waveforms.

Model 4045: Sine, Square, Triangle, Arbitrary, Ramp and Pulse waveforms. Modulation in both AM and FM. Lin or Log Sweep Function. Adjustable Duty Cycle. Adjustable DC Offset. RS-232C Interface. Frequency Range: 0.1MHz ~ 20MHz

BK4007DDS-ND	DDS Sweep Function Generator 7MHz	**$399.00**
BK4013DDS-ND	DDS Sweep Function Generator 12MHz	**$499.00**
BK4001A-ND	4MHz Sweep/Function Generator	**$210.00**
BK4010A-ND	2MHz Function Generator	**$259.00**
BK4011A-ND	5MHz Function Generator with Digital Display	**$335.00**
BK4012A-ND	5MHz Function Generator	**$375.00**
BK4017A-ND	10MHz Sweep/Function Generator with Digital Display	**$419.00**
BK4040A-ND	20MHz Sweep/Function Generator with Frequency Counter and Digital Display	**$650.00**
BK4084-ND	20MHz Programmable DDS Function Generator	**$925.00**
BK4045-ND	20MHz DDS Sweep Function Generator with Arbitrary (Capabilities)	**$999.00**
LC-40B-ND	Carrying Case (1 Year Warranty) (For 4010A, 4011A, 4017A and 4040A)	**$93.50**

(Continued)

Function Generators *(Cont.)*

Function and Arbitrary Waveform Generators

Models 4075 and 4078:

Models 4075 and 4078 are versatile high performance function/arbitrary waveform generators with the largest arbitrary memory depth in their class. The generators combine the ability to produce nearly any conceivable arbitrary waveform with accuracy and precision and a DDS architecture offering easy to use conventional function generator capabilities. Arbitrary waveforms have 14 bit amplitude resolution, 100MSa/s sample rate and up to 400,000 points length. Waveforms can be output in continuous, triggered, gated or burst modes. Front panel operation is straightforward and user friendly. The instruments can be remotely controlled using SCPI-compliant commands via RS232.

Features:
• 14-bit, 100MSa/s; 400k point Arbitrary Waveform Generator • 25MHz Sine/ 25MHz Square waveforms • AM, FM and FSK modulation • 10mVpp to 10Vpp with 1mVpp settable amplitude resolution • Fully programmable markers • Arbitrary waveform editing software included

4078 Dual Channel Model:
• Both channels offer full functionality. All wave form parameters such as frequency, amplitude and offset can be set independently. • Synchronize both output signals to the same clock signal (external or internal) and precisely adjust the phase relationship between the two signals. • Economical baseband I/Q signal source • Saves cost and bench space

Model 4084AWG:

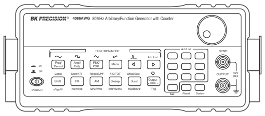
Model 4084AWG

The Model 4084AWG is a laboratory grade synthesized function generator with arbitrary capability. Direct synthesis (DDS) techniques are used to create stable, accurate output signals for all 27 built-in standard and complex (arbitrary) waveforms as well as custom arbitrary waveforms. The 4084AWG produces high purity, low distortion sine waves and square waves up to 20MHz and provides extensive analog modulation capabilities including AM, FM, FSK, PSK, pulse modulation, burst mode and linear/logarithmic sweep combined with multiple trigger modes. The included intuitive Windows Software lets users create and edit custom arbitrary waveforms and download them with a single click to the instruments non volatile memory. Unmatched affordability and high performance make the 4084AWG a perfect fir for many applications in Electronic Test and Design, Sensor Simulation and Education and Training.

Features:
• Clean and stable output of very small signals down to the 1mV ~ 10mV range (50Ω) • Support of internal and external modulation sources as well as internal, external and gated trigger sources • Create arbitrary waveforms with 10 bit vertical resolution, 16K memory depth and a sample rate of 200MHz • Fully programmable via the standard RS232 interface using SCPI compatible commands • 100MHz Universal Counter with frequency measurement and totalize function

NEW! Models 4076 and 4079:

Models 4076 and 4079 are versatile high performance function/arbitrary waveform generators with the largest arbitrary memory depth in their class. The generators combine the ability to produce nearly any conceivable arbitrary waveform with accuracy and precision and a DDS architecture offering easy to use conventional function generator capabilities. Arbitrary waveforms have 14 bit amplitude resolution, 125 MSa/s sample rate and up to 4,000,000 points length. Waveforms can be output in continuous, triggered, gated or burst modes. Front panel operation is straightforward and user-friendly. The instruments can be remotely controlled using SCPI-complaint commands via RS232 or GPIB interface.

Features:
• 14-bit, 125MSa/s, 4,000k point Arbitrary Waveform Generator • 50MHz Sine / 50MHz Square waveforms • AM, FM and FSK modulation • 10mVpp to 10Vpp with 1mVpp settable amplitude resolution • Fully programmable markers • Arbitrary waveform editing software included

BK4075-ND	Arbitrary/Function Generator	**$1495.00**
BK4076-ND	***NEW!*** Arbitrary Waveform/Function Generator	**$2124.99**
BK4078-ND	Arbitrary/Function Dual Channel Generator	**$2294.99**
BK4079-ND	***NEW!*** Arbitrary Waveform/Function Generator	**$3249.99**
BK4084AWG-ND	Arbitrary/Function Generator	**$1295.00**

Frequency Counter

Model 1856D:

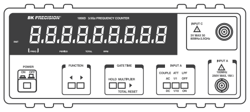
Model 1856D

3.5GHz Multifunction Counter (Frequency, Period, Totalize) Benchtop with .56 inch high 9-Digit LED Display

Features: • **Frequency:** 0.1Hz ~ 3.5GHz • **Period Characteristics: Range:** 10ns ~ 10s • **Input Characteristics:** Impedance: 50Ω ±5% • **Totalize Start/Stop Input: Logic Levels:** Standard TTL Levels • **Time Base Characteristics: Standard Type:** TCO • **Frequency:** 10MHz • **Stability:** ±1ppm ±10% line voltage variation • **Temperature Stability:** ±5ppm 0°C ~ 50°C • **Dimensions:** 9.4" x 3.5" x 10.6" • **Power:** 115VAC ±10% 50/60Hz • **Accessories Included:** Instruction Manual

BK1856D-ND	3.5GHz Benchtop Multifunction Counter	**$530.00**

Accessories

DC/AC Current Clamp Adapter

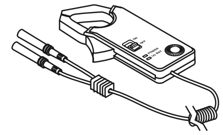

Measures current without disconnecting circuit under test. Measures to 400A DC or AC. Outputs 1 mV per Amp., operates on 2V range of any DMM.

Power Requirements: 9V battery
Operating Temperature: 0°C ~ 50°C, <70% RH
Dimensions: 7" x 2.8" x 1.3"
Accessories Included: Battery and instruction manual.

CP 3-ND	**$98.81**

Probes and Test Lead Sets

TP-29-ND	Type K Bead Thermocouple Probe	**$10.10**
BKTL-4-ND	Universal Test Lead Set	**$9.56**
BKTLFG-ND	Function Generator Test Probe Lead Set with BNC to BNC cables, BNC adapters and test clip	**$87.13**
BKTLPS-ND	Power Supply Test Lead Set	**$43.56**
TL 2A-ND	Test Lead Set, Fully Shrouded SILIC, IEC61010-2-031 1,000V CATIII	**$22.10**
TL-1-ND	Test Lead Set, Fully Shrouded	**$9.04**
TL-3-ND	Test Lead Accessory Set for BKTL-4 and TL-2A	**$18.06**

High-Voltage Probes

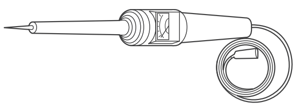

Model PR-28A:

Accessory for DMM's Multiplies instrument ranges by 1000 (40V becomes 40,000V). PR-28 for use with any high impedance (10MΩ or greater) voltmeter. **Features: Voltage Range:** • 40kVDC and 20kVAC (60Hz) • **Frequency Range:** DC-8Hz 20kVAC Maximum 60Hz • **Impedance:** 600MΩ accuracy: ±3% plus instrument accuracy • **Calibration:** Internal; factory calibrated at 25kV • **Size:** 14" long; 2¼" diameter (max.); 48" cord • **Connector:** Dual banana

Model HV 44A:

Built in meter for stand-alone operation (No DMM required). Measures voltages up to 40,000VDC. Factory calibrated at 25kV (±2% accuracy); full scale ±3% accuracy. Conventional round needle type tip and flat spring type tip for easy access to CRT anode • **Size:** 16.5" x 2.1" x 2" • **Color:** Black and Red
Positive Polarity Only – Not for microwave ovens.

PR 28A-ND	**$65.88**
HV 44A-ND	**$119.00**

Logic Probes

20MHz and 50MHz Logic Probes

Model DP-21: (20MHz Logic Probe): Tests TTL, DTL, RTL, HTL, CMOS and MOS. Displays pulse presence and logic states. Memory mode "freezes" pulse display. Catches pulses to 30ns or pulse trains to 20MHz. 1MΩ input impedance • **Operating Supply Voltage Range:** TTL-5V, CMOS 5 ~ 15V • **Dimensions:** 0.7" x 0.7" x 8.2"

Model DP-52: (50 MHz Logic Probe): Tests TTL and CMOS. Displays DC to 50MHz. Detects 10ns pulse width. Overload protected. 120kΩ input impedance • **Operating Supply Voltage Range:** 4 ~ 18VDC • **Dimensions:** 0.7" x 0.7" x 8.2"

DP-21-ND	**$37.00**
BKDP52-ND	**$47.50**

Pulser Probe

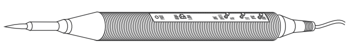

For TTL and CMOS. Produces 10µS pulse signal at 100mA. External square wave terminal **Features:** • **Output Current:** Pulser mode-100mA sink/source square wave mode-5mA sink/source • **Operating Supply Voltage Range:** 5 ~ 15VDC • **Sync Input Impedance:** 1MΩ • **Dimensions:** 0.7" x 0.7" x 8.2"

DP 31A-ND	**$37.00**

Component Testers

NEW! Dual-Display Auto Ranging LCR Meters

Model 878B: 40,000 count handheld LCR meter measures inductance, capacitance, and resistance quickly and precisely.

Model 879B: 40,000 count handheld LCR meter measures inductance, capacitance, and resistance quickly and precisely. Additionally, the 879B supports remote control using SCPI commands and can calculate impedance, and ESR, features typically found only in bench LCR meters.

BK878B-ND		**$249.00**
BK879B-ND		**$299.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Bench LCR/ESR Meter with Component Tester

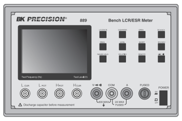

Model 889B: Synthesized In-Circuit LCR/ESR Meter is a high accuracy test instrument used for measuring inductors, capacitors and resistors with a basic accuracy of 0.1% with the built-in functions of DC/AC voltage/current measurements and diode/audible continuity checks.

BK889B-ND	**$1425.00**

In-Circuit Tester

Model 885 — LCR/ESR Meter: **Features:** • 0.5% basic accuracy • Dual LCD display • SMD surface mount tweezer probe included • Fully auto/manual selection • DC resistance measurement • Rechargeable battery/AC powered **Specifications: Measurement parameters:** Z, L, C, DCR, ESR, D, Q, and 0 **Test conditions:** 100Hz, 120Hz, 1kHz, 10kHz, 1vrms, 0.25Vrms, 0.05Vrms

BK885-ND		**$575.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

LCR Meter

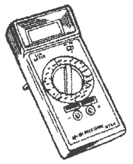

Model 875B:

Measures capacitance (200pF ~ 20mF ±1%), resistance (2 ~ 20MΩ ±1%), and inductance (200µH ~ 200mH ±1%). 3½ digit LCD display. Low battery and overload indicator.

Features: Power: Single standard 9V battery
Dimensions: 1.4" x 3.5" x 7.5"
Accessories Included: • Test leads • battery • Instruction manual.

BK875B-ND		**$199.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Auto Ranging Capacitance Meters

Model 830B: 4½ digit LCD display. 11,000 counts resolution. Nine automatically selected ranges with full scale value from 1.0pF ~ 199.99mF **Features:** • USB PC interface and data logging software included • Three year warranty **Specifications:** • Power Source: 9V battery • Dimensions: 7.24" x 3.42" x 1.61"

Model 890B: 4½ LCD with dual display. 11,000 counts resolution. Nine automatically selected ranges with full scale value from 1.0pF ~ 50mF **Features:** • Program unique values to sort for specific circuit applications • USB PC interface for data logging software available

BK830B-ND		**$289.00**
BK890B-ND		**$134.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

(Continued)

Multimeters

Component Testers *(Cont.)*

Capacitance Meter

Model 810C:

3½ digit LCD display. Nine ranges from 200pF ~ 20mF. Low battery and over-range indicator.

Power Source: One 9V battery

Dimensions: 5.7" x 3" x 1.6"

Accessories Included: • Test leads • Battery • Manual

BK810C-ND		**$83.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

IC Testers

Model 570A — Linear IC Tester:

Features: • Tests all common analog IC's • Auto identification of unmarked/house-coded devices listing possible replacements • Conditional/unconditional loop testing mode • Functional test emulates passive circuitry to implement a comprehensive test in a variety of configurations • Displays diagnostic information down to individual component pins • Rugged, hand-held, ergonomically designed case incorporates built-in membrane keypad, 2 x 16 dot matrix alpha numeric LCD and high quality 16 pin ZIF socket • Auto power off

BK570A-ND **$1450.00**

Model 575A — Digital IC Tester:

Features: • 40 pin wide-entry ZIF sockets test a broad range of TTL, CMOS Memory, LSI, Interface and other devices (NAND gates to CPUs) • Identifies unmarked and house-coded devices • Detects intermittent and temperature related faults • Displays diagnostic information for individual pins

BK575A-ND **$1150.00**

Video Generator for Benchtop Computer Monitor, PC and MAC

Model 1280B:

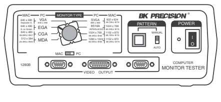

Features: • PC and Mac Patterns • 16 Monitor types/resolution selections • Color bar, Cross hatch, Dot, Raster, Windows® selection • VGA, SVGA, RGB, HV, V and Four DB 15 (rear panel) for multiple monitor burn in.

BK1280B-ND **$320.00**

NTSC Generator

Model 1257:

This portable, handheld NTSC Pattern Generator with S-Video, composite video and audio outputs is powered by a 9-volt battery or AC adapter. It provides NTSC color bars, crosshatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns. The outputs available are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No modulated RF signal is provided.

BK1257-ND **$212.00**

Network and PC Cable Testers

Model 231A:

Tests 10 BaseT, 100 Base2, RJ45, RJ11,356A, TIA-568A, TIA-568B, and token ring cables • Detects open, short, cross, and continuity • Tests Point-to-Point, rather than a Pair-to-Pair • Tests cables on wall plate or patch panel up to 1000 ft. away with the remote kit • Easy to read LED display

BK231A-ND DLX Multi-Network Cable Tester.......... **$83.00**

Deluxe EPROM Eraser

Model 851:

Heavy duty EPROM eraser simultaneously erases up to 40 twenty-four pin EPROMs. Features a 60 minute timer.

BK851-ND **$185.00**

3½ Digit Hand-Held Parts Tester

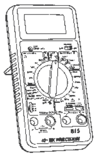

26 user ranges for versatile test selection. Tests capacitance from 0.1pF ~ 20mF. Tests resistance from 0.1Ω ~ 20MΩ. Tests transistors, SCRs, diodes and LEDs. Tests batteries under actual loaded conditions.

Power: One 9V transistor battery

Dimensions: 6.9" x 3.6" x 1.3"

Accessories Included: • Test leads • Spare fuse • Battery • Instruction manual

BK815-ND		**$105.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Pocket/Analog Multimeters

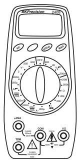

Model 2408

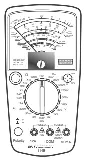

Model 114B

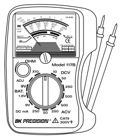

Model 117B

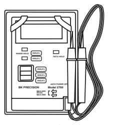

Model 2700

BK114B-ND	Analog Multimeter	**$42.00**
BK117B-ND	Pocket Size Analog Multimeter	**$22.00**
BK2700-ND	Pocket DMM	**$38.00**
BK2408-ND	Mini-pro Multimeter	**$49.00**
LC-24-ND	Carrying Case for 2408 (1 Year Warranty)	**$15.68**

Bench DMM True RMS

NEW! Model 2831E and 5491B:

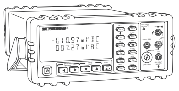

Model 2831E and 5491B

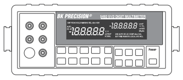

Model 5492

True RMS Bench Multimeter Take typical multimeter measurements such as volts, ohms, and amps with great accuracy, stability, and basic VDC accuracy of 0.02% on the 5491B and 0.03% on the 2831E. The meters are also capable of measuring frequency, period, continuity, and performing diode tests. Readings can be taken at a maximum rate of 25 readings/sec with measurement rates selectable between slow, medium, and fast.

Model 5492:

5½ Digit Dual Display Bench DMM with 0.012% Basic Accuracy

- Selectable Count Resolutions of 120,000, 40,000 and 4,000 count
- Selectable 2 Wire and 4 Wire Resistance
- Measures Frequency to 1MHz with 0.01Hz Best Resolution
- RS-232 Interface **Includes:** One set of TL 36 Test Leads and AC 01 caps for TL 36
- Optional GPIB

BK2831E-ND	***NEW!***	**$339.00**
BK5491B-ND	***NEW!***	**$399.00**
BK5492-ND		**$725.00**
LC-40B-ND	Carrying Case (1 Year Warranty)	**$93.50**

3½ Digit Ruggedized DMM

HIGH ENERGY FUSED

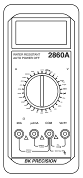

The Survivor™ High Energy Fused Ruggedized DMM. 3½ digit 20.32mm high contrast LCD display

Features:

- **Audible Continuity:** 20 Amp range
- **Sampling:** 2.5 times/sec. (nominal). Heavy Duty 1500VDC, 1000VAC rating. Water resistant case
- **Power Requirements:** Single 9V battery
- **Auto Power Off:** approx. 30 minute
- **Dimensions:** 6.9" x 3.5" x 1.5"
- **Accessories Supplied:** Battery, test leads, instruction manual, rubber boot.

5 Year Warranty

BK2860A-ND		**$105.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Test Bench® Multimeters

HIGH ENERGY FUSED

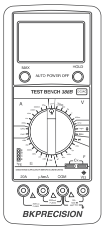

Model 388B

High quality, ruggedized, multi-function DMMs in a drop resistant case. Resistance and frequency measurement. Diode check. Auto power off. All current ranges fused. • **Power Requirements:** Single 9V battery • **Dimensions:** 7.8" x 3.5" x 1.5" • **Accessories Supplied:** 9V battery, test leads, instruction manual, rubber boot.

3 Year Warranty

Model 388B:

3¾ Digit LCD Display (4,000 count) • **DC Volts:** 400mV ~ 1000V • **AC Volts:** 400mV ~ 750V • **DC/AC Current:** 400µA ~ 10A • **Resistance:** 400Ω ~ 40MΩ • **Diode Test:** at 1mA, 3.2VDC max. type • **Capacitance:** 4nF ~ 40µF • **Frequency:** 4kHz ~ 4MHz. Logic level measure (TTL) Transistor gain (hFE) and peak hold.

Model 390A:

3¾ Digit LCD Display (4,000 count) • **Analog Bar Graph:** 41 Segments • **DC Volts:** 400mV ~ 1000V • **AC Volts:** 400mV ~ 750V • **DC/AC Current:** 400µA ~ 10A • **Resistance:** 400Ω ~ 40MΩ • **Diode Test:** at 1.2mA, 3.0VDC max. type • **Capacitance:** 4nF ~ 40mF • **Frequency:** 4kHz ~ 40MHz • **Temperature Range:** -50°C ~ 1300°C (1°C resolution). Auto/manual ranging. Relative mode. Minimum/Maximum hold. Data hold. Memory. RS-232. Audible continuity. Thermocouple Probe included.

Model 389A:

3¾ Digit LCD Display (4,000 count) • **Analog Bar Graph:** 41 Segments • **DC Volts:** 400mV ~ 1000V • **AC Volts:** 400mV ~ 750V • **DC/AC Current:** 400µA ~ 10A • **Resistance:** 400Ω ~ 40MΩ • **Diode Test:** at 1.2mA, 3.0VDC max. type • **Capacitance:** 4nF ~ 40mF • **Frequency:** 4kHz ~ 40MHz. Auto/manual ranging. Relative mode. Min/max hold. Data hold. Memory. Audible continuity.

Model 391A:

4½ Digit LCD Display (20,000 count) • **DC Volts:** 200mV ~ 1000V • **AC Volts:** 200mV ~ 750V • **DC/AC Current:** 400µA ~ 10A True RMS reading • **Resistance:** 200Ω ~ 20MΩ • **Diode Test:** at 1mA, 3.2VDC max. type • **Frequency:** 2kHz ~ 200kHz • **Duty Cycle**: 0 ~ 90% (0.1% resolution). Data hold. Logic level measure (TTL).

BK388B-ND		**$135.00**
BK390A-ND		**$175.00**
BK389A-ND		**$155.00**
BK391A-ND		**$195.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Clamp-on Multimeters

Model 316

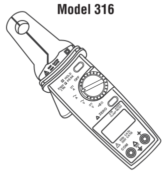

Models 313A, 350B, 369B

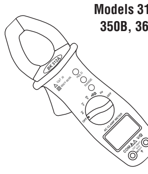

	Models			
	313A	**316**	**350B**	**369B**
AC Current	600A	100A	1000A	1000A
DC Current	600A	100A	—	1000A
AC Voltage	600V	600V	750V	750V
DC Voltage	600V	600V	1000V	1000V
Resistance	1KΩ	10KΩ	30MΩ	40MΩ
Frequency	—	—	√	√
Capacitance	—	—	—	√
True RMS	—	—	—	√
Continuity	√	√	√	√
Diode	—	—	√	√
Data Hold	√	√	√	√
Max./Min.	—	—	—	√

BK313A-ND	600A	**$159.00**
BK316-ND	10/80/100A	**$169.00**
BK350B-ND	32/320/1000A	**$164.00**
BK369B-ND	400/1000A	**$200.00**
LC-33-ND	Carrying Case (1 Year Warranty)	**$28.69**

K

Tool Kit® Multimeters

	Models							
	2709B	**2708B**	**2707B**	**2706B**	**2705B**	**2704C**	**2703C**	**2712**
Ranging	Auto/Manual	Auto/Manual	Manual	Manual	Auto/Manual	Manual	Manual	Auto/Manual
True RMS	√	√	√	—	—	—	—	√
Current	10A AC/DC	10A AC/DC	10A AC/DC	10A AC/DC	10A AC/DC	10A AC/DC	10A DC	10A AC/DC
Capacitance	to 66,000µF	—	to 20µF	to 20µF	—	to 20µF	—	to 40µF
Transistor Test	—	—	√	—	—	√	—	—
Frequency Counter	to 66MHz	—	√	to 40kHz	—	√	—	to 800kHz
Temperature	—	—	—	√	—	—	—	—
Logic Probe	—	—	√	—	—	√	—	—
Backlight LCD	√	—	—	√	—	—	—	√
Analog Bar Graph	—	√	—	—	—	—	—	√
Battery Tester	—	—	—	—	—	—	√	—
Auto Power Off	√	√	—	√	√	—	—	√

Model 2704C

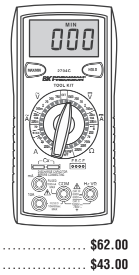

BK2709B-ND		**$99.00**
BK2708B-ND		**$95.00**
BK2707B-ND		**$91.00**
BK2706B-ND		**$82.00**
BK2705B-ND		**$65.00**
BK2704C-ND		**$62.00**
BK2703C-ND		**$43.00**
BK2712-ND	***NEW!***	**$109.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.86**

Dual Channel, 20MHz Oscilloscope with True RMS Digital Multimeter

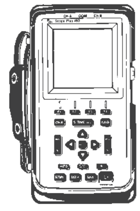

Portable Oscilloscope and Dual Input DMM

- Cursor Readout
- Pre-Post Triggering
- Decibel Measurement
- Trend Mode
- Real Time Sample Rate
- Bright LCD Backlight
- Continuous Autoset
- RS232 Option Available

Includes: Two test leads, two banana to BNC adapters, one DC-60MHz X1 X10 passive oscilloscope probe, power supply and user manual.

VERTICAL	
Bandwidth	20MHz with SP60B 10:1 Probe 10MHz with Shielded Test Leads
Sample Rate Real Time: Equivalent Time:	25 Megasamples per Second up to 2MHz 500 Megasamples per Second > 2MHz
Sensitivity	50mV to 200V/div 1,2,5 Sequence
Coupling	AC, DC, GND
Resolution	8 bits
Accuracy	± 3% + 0.05 range/div
HORIZONTAL	
Modes	Single, Normal, Auto
Samples per Division	25
Accuracy Real Time: Equivalent Time:	± 0.1% + 0.04 time/div ± 0.5% + 0.08 time/div
TRIGGER	
Source	Internal
Modes	Free Run, Normal
Sensitivity Real Time: Equivalent Time:	2 divisions or more 3 divisions or more
TREND MODE	
Plot Time	30 sec/div to 1 hour/div
Plot Data Type	Maximum/Minimum Selectable
Memory	2 Screens
TRUE RMS DMM	
DCV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 0.5% + 5 digits
ACV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 1% + 10 digits
Frequency (CH1, CH2) Basic Accuracy:	1Hz ~ 20MHz ± 0.5% + 5 digits
Ohm (CH1 only) Basic Accuracy:	400, 4k, 40k, 400k, 4M, 20M ± 0.5% + 5 digits
Continuity (CH1 only)	Sounds < 0.1kΩ, ± 2% + 5 digits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Handheld Oscilloscope 460	290-1460-ND	995.00	460

High-Performance Oscilloscope Probes

IEC 1010 Category I or Category II Compliance

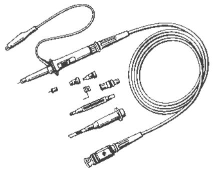

It is important that you select a probe with the same bandwidth or "frequency range" as the oscilloscope used for the job. For example, if you're using a 100 MHz oscilloscope, choose a probe with a minimum of 100MHz. To achieve optimum performance, choose a probe with more than twice the bandwidth of the oscilloscope.

Category I This slim design comes equipped with interchangeable cables, probe tips and grooved heads. Compensation adjustment placed in the BNC eliminates noise and interference related pickup. Available in switchable and non-switchable versions.

Category II This versatile design offers three monolithic interchangeable probes in 60, 100, and 250MHz bandwidth.

Band-width	Atten-uation	Cable Length Meters	Input Impedance R	Input Impedance C	Max. Input V DC + Peak AC Range	Rise Time	Compen-sation	Read-out	Digi-Key Part No.	Price Each	TPI Part No.
Switchable, IEC 1010 Compliant - Category II											
250MHz	x1 x10	1.5	1 Meg 10 Meg	200pF 22pF	600V	1.5ns	10-60pF	NA	290-1057-ND	69.95	IP250
Switchable, IEC 1010 Compliant - Category I											
60MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 18pF	600V	5.8ns	10-30pF	NA	290-1003-ND	34.95	SP60B
100MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 16pF	600V	3.5ns	10-35pF	NA	290-1004-ND	39.95	SP100B
150MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 15pF	600V	2.3ns	10-35pF	NA	290-1005-ND	44.95	SP150B
200MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 15pF	600V	1.8ns	10-35pF	NA	290-1006-ND	49.95	SP200B
250MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 14pF	600V	1.4ns	10-35pF	NA	290-1007-ND	54.95	SP250B
300MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 13pF	600V	1.1ns	10-35pF	NA	290-1008-ND	59.95	SP300B
Non-Switchable, IEC 1010 Compliant - Category I											
15MHz	x1	1.2	1 Meg	47pF	600V	23ns	—	NA	290-1000-ND	29.95	1P20B
100MHz	x10	1.2	10 Meg	16pF	600V	3.5ns	10-35pF	NA	290-1001-ND	34.95	P100B
	x10	1.2	10 Meg	16pF	600V	3.5ns	10-35pF	Yes	290-1050-ND	39.95	P100BR
200MHz	x10	1.2	10 Meg	15pF	600V	1.8ns	10-35pF	NA	290-1002-ND	39.95	P200B
250MHz	x100	1.2	100 Meg	6.5pF	1200V	1.4ns	10-35pF	NA	290-1051-ND	44.95	P250
	x100	1.2	100 Meg	6.5pF	1200V	1.4ns	10-35pF	Yes	290-1052-ND	49.95	P250R
250MHz	x10	1.2	10 Meg	14pF	600V	1.4ns	10-35pF	NA	290-1053-ND	44.95	P250B
	x10	1.2	10 Meg	14pF	600V	1.4ns	10-35pF	Yes	290-1054-ND	49.95	P250BR

Differential Probe

This high-voltage differential probe allows conventional grounded oscilloscopes to be used for display and measurement of multiple floating signals with high common mode voltages. IEC 1010 approved for safety.

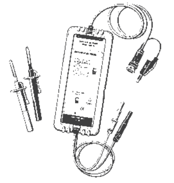

FUNCTION:

Bandwidth: DC - 25MHz (-3dB)

Accuracy: ±2%

Risetime: 14nS

Input Impedance: 4M/10pF each side to ground, 8M/5pF between inputs

Input Voltage: ±140VDC Inc. Pk AC

Maximum Differential: 20:1 or 100V RMS, ±1,400VDC Inc. Pk AC, 200:1 or 1,000V RMS

Output Voltage: ±7 minimum 2K load

Noise (typical): 1.5/2mV

Offset (typical): <±5mV -14°F ~ 74°F (-10°C ~ 40°C)

Common Mode: ± 1,400VDC Inc. Pk AC, or 1,000V RMS

Output Source Impedance: 1 @ 1kHz, 8 @ 1MHz

Operating Temperature: -14°F ~ 74°C (-10°C ~ 40°C)

Power Requirements: 4 AA cell or 6V main adapters: DC/600mA or DC/800mA

Input Leads: 45cm double insulated PVC terminated in 44mm safety plugs

290-1076-ND ADF25 .... **$374.95**

4,000 Count True RMS DMM with 1MHz Waveform Capabilities

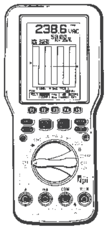

Versatile 6 Instruments-in-1

Features:

- Autoranging 4,000 Count\True RMS DMM
- 1MHz
- Trend Mode
- Component Test
- Logic Test
- Frequency Counter
- T-Base Button
- Continuous Autoset
- RS232 Option Available

Includes: Insulated test leads with alligator clips, power supply, NiCad battery and user manual.

OSCILLOSCOPE	
Bandwidth	1MHz
Sample Rate	20 Megasamples per Second Single Shot
Channels	Single
Glitch Capture	Yes
Trend Mode	Yes
Auto Set	Continuous
Waveform Memory	8 locations
Set-up Memory	8 locations
Viewing Area	160 x 240 pixels
Contrast	Adjustable
DMM	
True RMS	Yes
Basic DC Accuracy	0.3%
DCV / ACV	Up to 1,000 volts
DCA / ACA	Up to 10 amps
Ohms	Up to 40MΩ
Capacitance	Up to 400µF
Frequency	Up to 2MHz

Description	Digi-Key Part No.	Price Each	TPI Part No.
TPI 440 Hand-held Oscilloscope 440	290-1440-ND	299.95	TPI 440
Software for TPI 440	290-1075-ND	59.95	A402
Battery Charger for TPI 440	290-1441-ND	19.95	TPI A401
Carrying Case for TPI 440	290-1900-ND	18.54	TPI A900
Rubber Boot for TPI 440	290-1123-ND	19.95	A403

Digital Multimeters

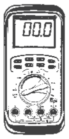

183

TPI digital multimeters feature auto ranging, minimum/maximum record function, 4,000-count display, and protective rubber feet. ***Includes:*** *Batteries, Test Leads, Protective Boot, and Instruction Manual with 3-year Limited Warranty*

- The 183 offers a triple display with backlight, frequency and capacitance ranges, and RS-232 communication function.
- TPI 190 series digital multimeters feature 50,000-count triple display with analog bar graph and backlight, separate fuse and battery compartment, CAT IV rated test leads with screw on alligator clips, and protective rubber feet.

FUNCTION	100	126	153	183	192
Display Count	4,000	4,000	4,000	4,000	50,000
AC Volts	600	600	750	750	750
DC Volts	600	600	1,000	1,000	1,000
Basic DC Accuracy	0.5%	0.3%	0.3%	0.03%	0.05%
AC/DC Amps	NA	400mA	10	10	10
True RMS	NA	NA	NA	Yes	Yes
Resistance	10MΩ	40MΩ	40MΩ	40MΩ	50MΩ
Capacitance	NA	NA	NA	10,000µF	100µF
Frequency	NA	NA	NA	200KHz	500KHz
Analog Bar Graph	NA	NA	NA	Yes	Yes
Auto Range	Yes	Yes	Yes	Yes	Yes
Data Hold	NA	Yes	Yes	Yes	Yes
Min./Max. Record	NA	Yes	Yes	Yes	Yes
Sleep Mode	NA	NA	NA	Yes	Yes
Auto Power Off	Yes	Yes	Yes	NA	Yes
RS232 (cable and software)	NA	NA	NA	Optional A108	Optional A191
Dimensions - Inch (with boot)	7.4 x 3.4 x 1.3	6 x 3 x 2	7.75 x 3.75x 2.25	7.75 x 3.75 x 2.25	8.0 x 4.5 x 2.0

Description	Digi-Key Part No.	Price Each	TPI Part No.
EZ 100, One Button Operation	290-1920-ND	49.95	100
Pocket Auto Range, Compact Size	290-1126-ND	59.95	126
4 Digit, Large Display	290-1153-ND	74.95	153
4 Digit, Triple Display	290-1183-ND	139.95	183
5 Digit, CAT III	290-1423-ND	229.95	192

Pocket Digital Contact Thermometers

Range: -58°F ~ 300°F or -50°C ~ 150°C **Resolution:** 0.1°F or °C **Accuracy:** ±2°F or ±1°C **Sampling Time:** 1.5 seconds **Battery:** 1.5V button **Features:** • Data hold for hard to reach areas • Auto power off **310:** • Reversible LCD head • Turns for best viewing • Easy-to-read LCD • 4.9” stem **312:** • Water resistant for use in wet environments • Quick response • Easy insertion into “Petes” plugs • 4.9” stem **315:** • Rugged design • Water resistant • 3.1mm diameter stem for “Pete’s” plugs

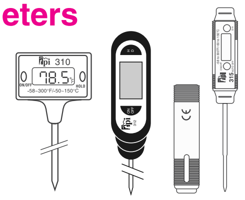

310 312 315

290-1310-ND	310	**$12.95**
290-1312-ND	312	**$15.95**
290-1422-ND	315	**$18.95**

Close Focus, Pocket-Size Infrared Thermometer

Features: • Compact–Easily fits in your pocket • Selectable Fahrenheit or Centigrade temperature range: -7°F ~ 248°F (-22°C ~ 120°C) • Auto Data Hold • Min./Max. functions 8 samplings in 0.5 seconds • AUTO sets the 368 into scan mode to continuously scan surface temperatures in real time. Automatically powers off after 60 seconds. ***NOTE:*** Close focus IR thermometers should be held a distance 0.5” ~ 2” from surface to be measured to obtain an accurate reading (spot size 0.35”). **Specifications:** • Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C) • Accuracy: 2% of reading or ±3.5°F, whichever is greater

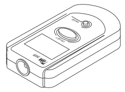

290-1901-ND	368	**$24.95**

Nano-Clips and Micro-Clips

NANO-CLIP SPECIFICATIONS: Accessible Lead Pitch: 0.3mm minimum **Clip Retention:** 50g minimum **Stroke:** 1.65mm **Operating Force:** 300g maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 300MΩ
NANO-CLIP FEATURES: • Gold-plated hook and contact • Fluorine coated barrel extension
MICRO-CLIP SPECIFICATIONS: Accessible Lead Pitch: 1.27mm minimum **Clip Retention:** 200g minimum **Stroke:** 3.0mm **Operating Force:** 1.0kg maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 200MΩ

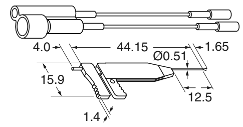

Description	Package Includes	Digi-Key Part No.	Price Each	TPI Part No.
Nano-Clip .3mm				
Black, Red	2 Clips, 2 Lead Sets and Ground Lead	290-1096-ND	47.95	NC2BR
Black, Red	6 Clips, 3 Lead Sets and Ground Lead	290-1097-ND	99.95	NC6BR
Assorted	12 Clips, 6 Lead Sets and Ground Lead	290-1105-ND	189.95	NC12
Black	1 Clip	290-1106-ND	9.95	NC1B
Gray	1 Clip	290-1107-ND	9.95	NC1GY
Red	1 Clip	290-1108-ND	9.95	NC1R
Yellow	1 Clip	290-1109-ND	9.95	NC1Y
Green	1 Clip	290-1110-ND	9.95	NC1G
Blue	1 Clip	290-1111-ND	9.95	NC1BLUE

Description	Package Includes	Digi-Key Part No.	Price Each	TPI Part No.
Micro-Clip 1.27mm				
Black	1 Clip	290-1118-ND	7.95	MC1B
Gray	1 Clip	290-1119-ND	7.95	MC1GY
Red	1 Clip	290-1121-ND	7.95	MC1R
Assorted	6 Clips, 3 Lead Sets and Ground Lead	290-1117-ND	46.95	MC6

IR Non-Contact and Contact Temperature Testers

Take non-contact and contact temperatures with one temperature tester.

Model 376 Features: • Combination non-contact IR and contact (K-Type thermocouple) • Laser pointer • Record function • Display data hold function • Backlight • Trigger switch • 8:1 distance to spot ratio • Selectable °C/°F • Gun-type compact design • Operation lock function • Soft pouch included • Three-year limited warranty **Display Resolution:** 0.1°F and 0.1°C or 1°F and 1°C **Operating Temperature:** 32°F ~ 120°F (0°C ~ 50°C) **K-Type Probe Range**: -40°F ~ 2,192°F (-40°C ~ 1,200°C) **K-Type Probe Accuracy**: ±5% of reading 3°F

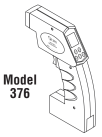

Model 376

Models 381 and 384 Features: • Easy to use single button operation • 0.1/1 degree auto resolution for best reading • Last reading hold • Soft holster pouch included • 9:1 distance to spot ratio (381F: 6:1) • Large, easy to read display • °C and °F selectable

FUNCTION	376	381	384
Temperature Range	-58°F ~ 950°F -50°C ~ 510°C	-4°F ~ 572°F -20°C ~ 300°C	-31°F ~ 1,832°F -35°C ~ 1,000°C
Laser Sighting	Yes	Yes	Yes
Accuracy @ 25°C and 0.95 Emissivity	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F
Response Time	500ms	500ms	500ms
Special Response	7-14um	7-14um	8-14um
Emissivity	0.3 ~ 99 adjustable	0.95 fixed	0.95 fixed

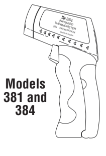

Models 381 and 384

Description	Digi-Key Part No.	Price Each	TPI Part No.
Combination Non-Contact/Contact Temperature Tester with Soft Pouch	290-1376-ND	149.95	376
Non-Contact Temperature Tester with Soft Pouch and Laser	290-1427-ND	74.95	381
High-Temperature, IR Gun with Soft Pouch	290-1420-ND	129.95	384

K-Type Contact Thermometer

Water-resistant testers accept K-Type thermocouple probes. The 343C2 features dual inputs displays temperature differential, and has minimum/maximum record. Protective boot (A304) included.

Size: 1.6” x 6” x 3” **Weight:** 278g with boot • *Perform ice bath calibration to achieve ±1°F within the 30°F ~ 120°F temperature range. Calibration is an easy two-step process performed through the keypad and does not require the use of tools.* **Minimum/Maximum Record:** Yes **Selectable Resistance:** Auto **C/F Selectable:** Yes **T1, T2 △T:** Yes **Auto Off:** Yes **Range K-Type:** -58°F ~ 2,462°F (-50°C ~ 1,350°C) **Basic Accuracy:** ±0.3% **Battery:** 9V

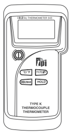

343C2

290-1416-ND	343C2 Thermometer Kit	**$74.95**

Model GK11M: • Standard K-Type thermocouple probe • 4 foot fiberglass covered lead • Exposed junction for fast response

290-1911-ND	GK11M (K-Type)	**$14.95**

Test Leads and Accessories

Fig. 1

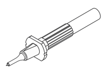

Fig. 2

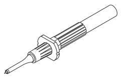

Fig. 3

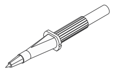

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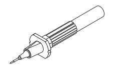

Fig. 5

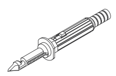

Fig. 6

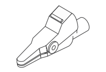

Fig. 7

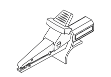

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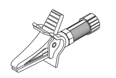

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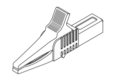

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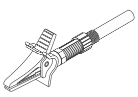

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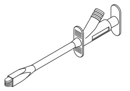

(A067 Shown)

Fig. 12

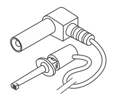

Fig. 13

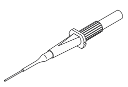

Fig. 14

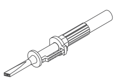

Fig. 15

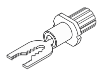

Fig. 16

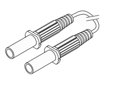

Fig. 17

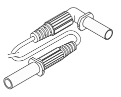

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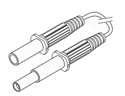

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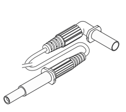

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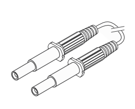

Fig. 21

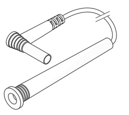

Fig. 22

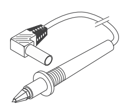

Fig. 23

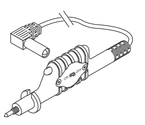

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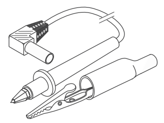

Fig. 25

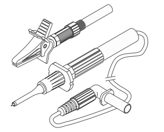

Fig. 26 ***NEW!***

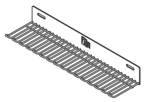

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	TPI Part No.
1	Standard Prod Set	290-1511-ND	9.95	9.14	A037
2	Fused Prod Set	290-1508-ND	24.95	22.93	A036
	1,000V, GS38 Compliant Fused Prod Set	290-1558-ND	29.95	27.51	A083
3	OEM Style Prod Set	290-1520-ND	8.95	8.23	A054
4	Thin Stainless Steel Tip Prod Set	290-1523-ND	12.95	11.90	A055
5	Insulation Piercing Prod Set	290-1532-ND	15.95	14.65	A059
6	Small Alligator Clip Set	290-1505-ND	6.95	6.39	A034
7	1,000V Crocodile Clip Set	290-1535-ND	14.95	13.74	A066
8	Flanged Fully Insulated Crocodile Clip Set	290-1529-ND	7.95	7.30	A058
9	Cat III, 600V Crocodile Clip Set	290-1541-ND	14.95	13.74	A068
10	Fused Flanged Crocodile Clip Set	290-1555-ND	33.95	31.19	A084
11	Grabber Clip Set	290-1538-ND	22.95	21.09	A067
	Plunger Clip Set	290-1544-ND	22.95	21.09	A069
12	Probe Tip Red 5 Mini Clip With 9” Pigtail	290-1065-ND	7.95	5.66	SMD1R
	Probe Tip Black 5 Mini Clip With 9” Pigtail	290-1066-ND	7.95	5.66	SMD1B
13	Needle Back Probe Set	290-1526-ND	9.95	9.14	A057
	Needle Back Probe, Black	290-1527-ND	4.98	4.57	A057B

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	TPI Part No.
14	Sprung Hook Set	290-1514-ND	10.95	10.07	A038
15	Spade Terminal Set	290-1517-ND	2.95	2.72	A039
	Spade Terminal, Black	290-1518-ND	1.48	1.37	A039B
16	Fixed Shroud to Fixed Shroud	290-1500-ND	15.95	14.65	A079
17	90° Fixed Shroud to Fixed Shroud	290-1502-ND	15.95	14.65	A082
18	Fixed Shroud to Shutter Plug	290-1504-ND	16.95	15.58	A087
19	90° Fixed Shroud to Shutter Plug	290-1501-ND	15.95	14.65	A081
20	Shutter Plug to Shutter Plug	290-1503-ND	19.95	18.33	A086
21	Test Lead Set for A083, A084	290-1552-ND	14.95	13.74	A088
22	Test Lead Set Standard 46”	290-1059-ND	6.95	6.39	SSL2
	UL Test Lead Set	290-1547-ND	9.95	9.14	A070
23	Lighted Test Lead Set	290-1549-ND	49.95	45.89	A035
24	UL Test Lead Set with Alligator Clip	290-1548-ND	17.95	16.49	A085
	Fused Test Lead Set	290-1550-ND	24.95	22.93	A041
25	Fused Test Lead Kit	290-1551-ND	69.95	64.26	A089
—	Kit Test Lead Set 7 Pair	290-1058-ND	34.95	—	SDK1
26	Test Lead Rack HD Magnetic Screw Mount	290-1952-ND ***NEW!***	37.97	—	LEADRACK
—	Test Lead Rack Screw Mount	290-1953-ND ***NEW!***	8.95	—	LEADRACKSM

Pomona
ELECTRONICS

Test Equipment

Adapters

Dimensions in Inches (mm)

Fig. 1

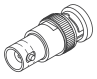

Fig. 2

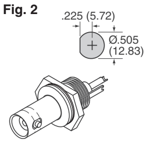

Fig. 3

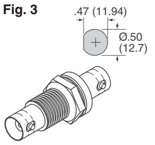

Fig. 4

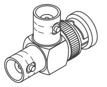

Fig. 5

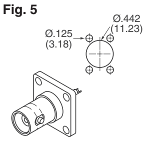

Fig. 6

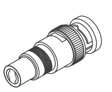

Fig. 7

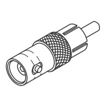

Fig. 8

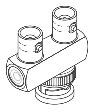

Fig. 9

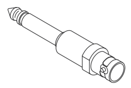

Fig. 10

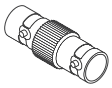

Fig. 11

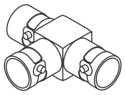

Fig. 12

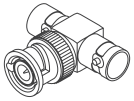

Fig. 13

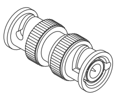

Fig. 14

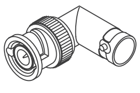

Fig. 15

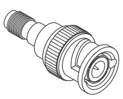

Fig. 16

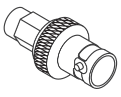

Fig. 17

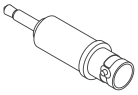

Fig. 18

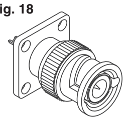

Fig. 19

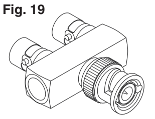

Fig. 20

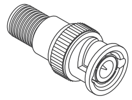

Fig. 21

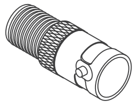

Fig. 22

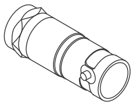

Fig. 23

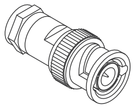

Fig. 24

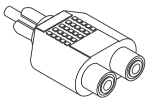

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	BNC Feed-Thru Termination, 50Ω	501-1036-ND◆	38.16	34.49	4119-50
2	BNC (Female) Isolated Ground Bulkhead Receptacle	501-1037-ND◆	3.44	3.11	3778
2	BNC (Female) Bulkhead Receptacle, Isolated Ground, PTFE, 75Ω	501-1151-ND◆	2.67	2.42	6741
2	BNC Female Bulkhead Receptacle, 75Ω	501-1153-ND◆	2.44	2.21	6745
3	Adapter, Isolated Ground BNC Female-Female	501-1038-ND◆	8.50	7.68	3846
3	Hermetic Sealed BNC Female-Female	501-1139-ND◆	21.03	19.01	3847
3	Isolated BNC Female to Female Panel	501-1142-ND◆	14.84	13.41	6705
3	BNC (Female-Female) Panel Mount, Hermetically Sealed, 75Ω	501-1152-ND◆	3.29	2.97	6744
4	BNC “T” (Male-Female-Female) Coaxial Adapter	501-1039-ND◆	14.16	12.80	4896
5	BNC Female Panel Receptacle	501-1040-ND◆	6.54	5.91	2451
5	BNC Female Panel Receptacle, 75Ω	501-1146-ND◆	2.79	2.52	6736
6	Adapter, Phono Jack to BNC Male	501-1096-ND◆	19.41	17.54	4054
7	Adapter, BNC Female to Phono Plug	501-1099-ND◆	7.14	6.45	5319
8	BNC Male to Dual BNC Female Straight Adapter	501-1100-ND◆	16.42	14.84	6700
9	BNC (Female) to Std. 1/4” Two Conductor Phone Plug	501-1128-ND◆	12.60	11.39	1297
10	BNC Female-Female	501-1132-ND◆	4.88	4.41	3283
10	BNC Female-Female, 75Ω	501-1147-ND◆	2.67	2.42	6737
11	BNC “T” (Female-Female-Female)	501-1133-ND◆	14.61	13.20	3284

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
11	BNC (Female-Female-Female) 75Ω	501-1148-ND◆	3.78	3.42	6738
12	BNC “T” (Female-Male-Female)	501-1134-ND◆	6.41	5.79	3285
12	BNC (Female-Male-Female) 75Ω	501-1149-ND◆	3.78	3.42	6739
13	BNC Male-Male	501-1135-ND◆	3.34	3.02	3533
13	BNC Male-Male, 75Ω	501-1150-ND◆	2.11	1.91	6740
14	BNC (Female-Male) Right Angle	501-1136-ND◆	9.41	8.51	3534
15	SMA Female to BNC Male	501-1140-ND◆	9.26	8.37	4289
16	SMA Male to BNC Female	501-1141-ND◆	9.28	8.39	4290
17	BNC Female to Tini-Plug	501-1138-ND◆	15.16	13.70	3837
18	BNC Male Panel Mount, 75Ω	501-1145-ND◆	3.29	2.97	6735
19	BNC (Female-Male-Female) In-Line, 75Ω	501-1154-ND◆	3.93	3.56	6754
20	BNC (Male) / F (Female), 75Ω	501-1155-ND◆	3.55	3.21	6779
21	BNC (Female) / F (Female), 75Ω	501-1156-ND◆	3.55	3.21	6780
22	BNC (Female) / F (Male), 75Ω	501-1157-ND◆	3.55	3.21	6781
23	BNC (Male) / F (Male), 75Ω	501-1158-ND◆	3.55	3.21	6782
24	RCA (Female-Male-Female)	501-1161-ND	1.33	1.20	6882

◆ ***RoHS Compliant***

Probes

Dimensions in Inches (mm)

Fig. 1

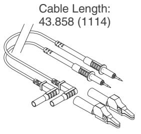

Fig. 2

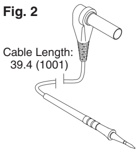

Fig. 3

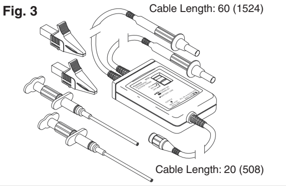

Model 6723:

Features: • Test probe has a Stainless Steel sharp tip with 8/32 threaded base • Alligator clip screws onto probe tip • Test leads fit all standard DMM with safety style banana jacks

Kit Includes: • A set of red and black test leads • A set of red and black medium alligator test clips

Model 6341:

Features: • Gold plated pogo pin tip keeps constant pressure on test point for consistent readings • Replaceable probe tips • Right angle DMM plug fits most digital multimeters

Kit Includes: • One red probe • One black probe with a set of all tip styles, which include: Sharp Point Gold Plated Pogo Pin Tip, Sharp Point Stainless Steel Tip, Triple Point Gold Plated Pogo Pin Tip, Quad Point Gold Plated Pogo Pin Tip and 3” (76.19mm) Long Sharp Point Stainless Steel Tip

Model 6731:

Features: • Allows user to safely make floating high voltage measurements while using general purpose oscilloscopes • Maximum differential voltage up to 1000V • Differential amplifier converts and scales floating input signal to a low-voltage signal referenced to earth ground • The probe can be used on circuits associated with electronic high-power converters, motor speed controllers, switching power supplies, and other high voltage circuits requiring isolation • Switchable attenuation settings

Kit Includes: • Large Jaw Alligator Clips (one red and one black) • Pin-Grabber Test Clips (one red and one black) • 9V Alkaline Battery

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	Model 6723, Test Lead Kit with 8/32 Threaded Probe Tip	501-1101-ND◆	36.60	33.08	6723
2	Model 6341, Replaceable Tip Precision Electronic Probe	501-1003-ND◆	38.63	34.91	6341
3	Model 6731, Active Differential Probe	501-1005-ND◆	656.85	593.54	6731
—	Power Adapter for Model 6731	501-1006-ND	111.57	100.82	6732

◆ ***RoHS Compliant***

Test Enclosures

Dimensions in Inches (mm)

Fig. 1

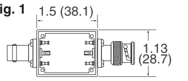

Fig. 2

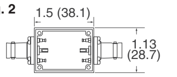

Fig. 3

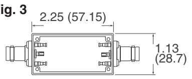

Fig. 4

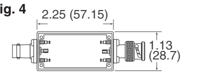

Fig. 5

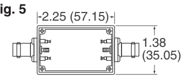

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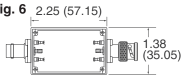

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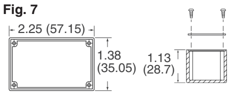

Fig. 8

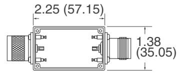

Fig. 9

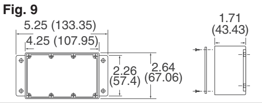

Fig. 10

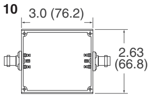

Fig. 11

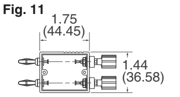

Fig. 12

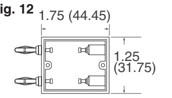

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
	Die Cast Aluminum - Blue				
1	Miniature Size Box, BNC Female to BNC Male with Cover	501-1103-ND	30.34	27.42	3752
2	Miniature Size Box, BNC Female/Female with Cover	501-1104-ND	32.24	29.13	3751
3	Size “A” Box, BNC Female/Female with Cover	501-1069-ND	28.15	25.44	2390
4	Size “A” Box, BNC Male/Female with Cover	501-1070-ND	30.38	27.45	2391
5	Size “B” Box, BNC Female/Female with Cover	501-1105-ND	26.63	24.06	3230
6	Size “B” Box, BNC Male/Female with Cover	501-1106-ND	31.36	28.34	3231
7	Size “B” Box Shield with Cover	501-1107-ND	8.96	8.10	2417

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
8	Size “B” Box, Type N Male/Female with Cover	501-1112-ND	52.01	47.00	2411
9	Size “C” Box Shielded with Cover	501-1108-ND	21.58	19.50	2901
10	Size “D” Shielded Housing, BNC Female Both Ends with Cover	501-1111-ND	35.92	32.46	3602
	Electrical Grade Phenolic - Black				
11	Box Component Mounting, Double Plug to Binding Posts w/Cover	501-1110-ND	30.16	27.26	2259
12	Box Component Mounting, Banana Jack to Double Plug w/Cover	501-1109-ND	21.48	19.41	2098

(Continued)

Pomona Electronics Test Equipment *(Cont.)*

Test Leads

Kit Features: • Test leads with a right angle banana plug are ideal for use with hand held digital multimeter • Test accessories conveniently store in the four-fold nylon pouch • Compatible with most multimeters that accepts safety style sheath banana plugs • CE Compliant; complies with IEC 1010-2-031 standard for hand held accessories

Electrical DMM: Model 5673B — Kit Includes *(1 red and 1 black of each):* • Modular Probe Set • Extended Fine Point • Extra Large Alligator Clip Set • Medium Alligator Clip Set • Flexible Test Lead Set • Insulated Spade Lug Set **Model 5677B — Kit Includes *(1 red and 1 black of each):*** • Flexible Test Lead Set • Extra Large Alligator Clip Set • Test Lead Coupler Set • Retractable Tip Set • Spade Lug Adapter Set • IC Test Probe Tip Adapter Set • Minigrabber® Test Clip Set • 0.080 Replacement Probe Tip Set • Replacement Modular Test Probe Set • Minipincer® Test Clip Set • Medium Alligator Clip Set

SMD Multi-Use Test Kits: Model 72928 — Kit Includes*:* • *(1 red and 1 black of each):* • Micro SMD Grabber Test Clips • Mini-alligator clip with 2mm jack • SMD test probe, spring-set tip • Mini SMD Grabber Test Clips • 4mm plug/2mm plug adapter • Bench-top DMM test leads • SMD grabber clip lead • Stacking 2mm patch cords **Model 72935 — Kit Includes*:*** • 2 DMM Leads with 4mm Plugs • 2 Test Probes with Spring-Loaded Tips • 6 Micro SMD Grabbers • 6 Adapter Leads 0.8mm Female to 0.4mm Jack • 2 Mini SMD Grabbers with 4mm Connectors • 2 Holding Rods

Dimensions in Inches (mm)

Fig. 1

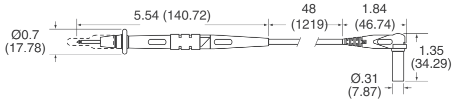

Fig. 2

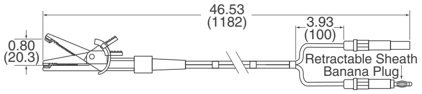

Fig. 3

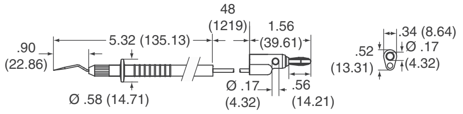

Fig. 4

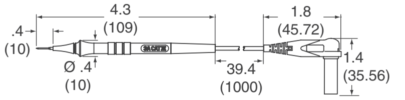

Fig. 5

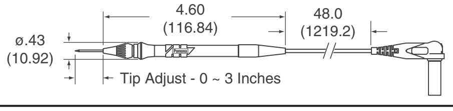

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	IEC 1010 Compliant Replacement Test Leads for Sheathed Style DMM's, Includes: One Red and One Black	501-1004-ND	14.71	13.29	5519A
2	Wide Jaw Kelvin Lead Set, Includes: One Red and One Black	501-1102-ND	127.19	114.93	6730
3	SMD Test Probe Set, Includes: One Red and One Black	501-1246-ND	27.01	24.41	6235
4	Precision Electronic Probe with Replaceable Tip Includes: One Red and One Black	501-1248-ND	19.57	17.69	6275
5	Retractable Tip Test Probe Set, Sheathed DMM Plug	501-1249-ND	25.23	22.80	5953A
	Kits				
	Electrical DMM				
—	Electrical DMM Test Lead Kit, Model 5673B Deluxe Multi-use DMM Maxi-Test Lead Kit, Model 5677B	501-1002-ND 501-1000-ND	59.73 126.38	53.97 114.20	5673B 5677B
	SMD Test Kits				
—	SMD Multi-Use Test Kit SMD High Density Circuit Test Kit	501-1223-ND 501-1239-ND	141.18 192.53	127.58 173.97	72928 72935

Oscilloscope Probes

Features: • All Probes meet IEC1010-2-031, 300V, CAT I

Probes Include: • Retractable Hook Tip • BNC Adapter • IC Adapter • Insulating Tip • Trimmer Tool • 6" (152.40mm) Ground Lead with Alligator Clip

Probe Ratio	System Bandwidth MHz (-3db)	Cable Length Meters	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1:1 10:1	Up ~ 203 60	1.2	501-1012-ND	43.62	39.42	6266
1:1 10:1	Up ~ 153 100	1.2	501-1007-ND	61.87	55.91	4550B
1:1 10:1	Up ~ 203 200	1.2	501-1008-ND◆	69.42	62.73	5806A
100:1	200	2.0	501-1010-ND◆	111.55	100.80	5827A
10:1	250	1.2	501-1011-ND	64.37	58.17	6069A
10:1	300	1.2	501-1009-ND	118.26	106.86	5812A

◆ ***RoHS Compliant***

Wire Test Leads

Description	Length (feet)	Color	Digi-Key Part No.	Price Each 1	10	100	Pomona Part No.
Model 6733 with Silicone Insulation	50	Black	501-1281-ND	20.50	18.53	17.29	6733-0
Model 6733 with Silicone Insulation	50	Red	501-1282-ND	20.50	18.53	17.29	6733-2

NEW! Jumper Test Lead Sets

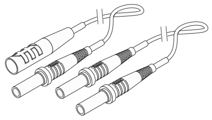

Features: • Each jumper test lead set includes one sheathed 4mm banana plug to sheathed 4mm banana plug test lead, and one sheathed 4mm banana plug to sheathed 4mm banana jack patch cord. • Flexible jumper test lead sets are perfect for conducting peer-checking system tests with test point check before final connection. • Plug and housing are molded directly to the cable in an integral one piece design and wire is double crimped for a long lasting connection. • Multi-leaf banana spring is beryllium copper, nickel-plated for extended insertion cycle life and low contact resistance. • High strand count silicone insulated wire offers excellent flexibility and high temperature resistance. **Materials:** • Plug: Brass, Nickel plated • Spring: Beryllium Copper, Nickel plated • Insulator: Polypropylene • Wire: 18AWG • Wire Insulation: Silicone, O.D. 0.146" (3.7mm) **Specifications:** • Operating Temperature: -20°C ~ 55°C • Operating Voltage: CAT I, 1000Vrms • Current: 10A Maximum

Length Inch (mm)	Color	Digi-Key Part No.	Price Each 1	10	100	Pomona Part No.
6 (152)	Black	501-1305-ND	18.18	16.43	15.33	73087-6-0
6 (152)	Red	501-1306-ND	18.18	16.43	15.33	73087-6-2
12 (305)	Black	501-1299-ND	18.94	17.12	15.98	73087-12-0
12 (305)	Red	501-1300-ND	18.94	17.12	15.98	73087-12-2
24 (610)	Black	501-1301-ND	20.29	18.33	17.11	73087-24-0
24 (610)	Red	501-1302-ND	20.29	18.33	17.11	73087-24-2
36 (914)	Black	501-1303-ND	21.65	19.56	18.26	73087-36-0
36 (914)	Red	501-1304-ND	21.65	19.56	18.26	73087-36-2
72 (1829)	Black	501-1307-ND	25.70	23.22	21.68	73087-72-0
72 (1829)	Red	501-1308-ND	25.70	23.22	21.68	73087-72-2

NEW! Terminal Jacks

Features: • Adapter provides an easy and quick banana jack connection by replacing the screw in a terminal strip or control panel. • Allows a standard sheathed or unsheathed banana plug/patch cord to securely connect to a terminal strip. • Helps to avoid accidental arc-over by eliminating the usage of alligator clips, or test probe "slip offs" during measurement applications. **Materials:** • Banana Jack: Nickel plated Brass • Insulation: Polypropylene V-2 **Specifications:** • Voltage: 600 Vrms Maximum • Current: 20A • Operating Temperature: -10°C ~ 80°C

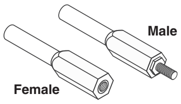

Thread	Torque (In/Lb.)	Color	Digi-Key Part No.	Price Each 1	10	100	Pomona Part No.
6-32 Male	7	Black	501-1283-ND	2.61	2.36	2.20	73084-0
	7	Red	501-1284-ND	2.61	2.36	2.20	73084-2
	7	Yellow	501-1285-ND	2.61	2.36	2.20	73084-4
	7	Blue	501-1286-ND	2.61	2.36	2.20	73084-6
8-32 Male	16	Black	501-1295-ND	2.61	2.36	2.20	73088-0
	16	Red	501-1296-ND	2.61	2.36	2.20	73088-2
	16	Yellow	501-1297-ND	2.61	2.36	2.20	73088-4
	16	Blue	501-1298-ND	2.61	2.36	2.20	73088-6
10-32 Male	20	Black	501-1287-ND	2.61	2.36	2.20	73085-0
	20	Red	501-1288-ND	2.61	2.36	2.20	73085-2
	20	Yellow	501-1289-ND	2.61	2.36	2.20	73085-4
	20	Blue	501-1290-ND	2.61	2.36	2.20	73085-6
10-32 Female	20	Black	501-1291-ND	2.61	2.36	2.20	73086-0
	20	Red	501-1292-ND	2.61	2.36	2.20	73086-2
	20	Yellow	501-1293-ND	2.61	2.36	2.20	73086-4
	20	Blue	501-1294-ND	2.61	2.36	2.20	73086-6

Adapter Kits

Universal Adapter Kit (Model 5698)

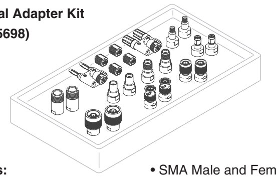

Includes:
- Type "N" Male and Female
- BNC Male and Female
- TNC Male and Female
- SMA Male and Female
- Coupling Adapter
- Double Banana Plug
- Double Binding Post

501-1034-ND..**$193.49**

Maxi Universal Adapter Kit (Model 5748)

Includes:
- Type "N" Male and Female
- BNC Male and Female
- TNC Male and Female
- SMA Male and Female
- Coupling Nut
- Double Banana Plug
- UHF Male and Female
- Mini UHF Male and Female
- RCA Phono Male and Female
- Type "F" Male and Female
- Unidapt Signal Sampler

501-1035-ND........................**$316.10**

SMA Adapter Kit (Model 72931)

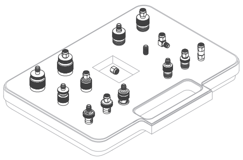

Includes:
• Right Angle SMA Female to SMA Male • Inline SMA Male to SMA Male • Inline SMA Female to SMA Female • SMA Male Terminator Plug • SMA Female to BNC Male • SMA Male to BNC Female • SMA Female to BNC Female • SMA Male to TNC Male • SMA Female to TNC Male • SMA Male to TNC Female • SMA Female to TNC Female • SMA Male to Type "N" Male • SMA Female to Type "N" Male • SMA Male to Type "N" Female • SM A Female to Type "N" Female

501-1235-ND...**$260.01**

Multi-RF Direct Adapter Kit (Model 72934)

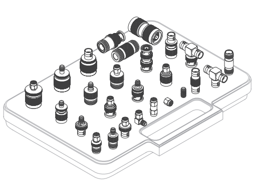

Includes:
• BNC Male to Type "N" Female • BNC Female to Type "N" Male • TNC Male to BNC Female • SMA Male to BNC Male • SMA Male to BNC Female • SMA Female to BNC Male • SMA Female to BNC Female • SMA Male to Type "N" Female • SMA Female to Type "N" Male • SMA Female to Type "N" Female • SMA Male to TNC Male • SMA Male to TNC Female • SMA Female to TNC Male • SMA Female to TNC Female • SMA Male to Type "N" Male • BNC Female to Female • BNC Male to Male • BNC Female to Male to Female TEE • BNC Female to Female to Female TEE • TNC Female to Female Adapter • Type "N" Female to Female • Type "N" Male to Male • SMA Male to Female Right Angle • SMA Male to Male • SMA Female to Female • SMA Termination, 50Ω Male

501-1238-ND...**$400.64**

(Continued)

Accessories

Fig. 1

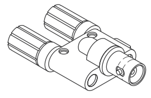

Fig. 2

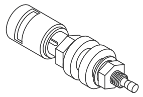

Fig. 3

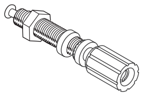

Fig. 4

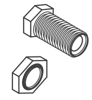

Fig. 5

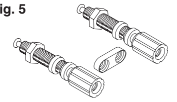

Accepts standard banana plugs

Fig. 6

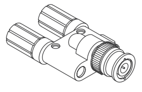

Fig. 7

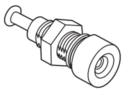

Fig. 8

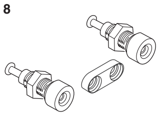

Fig. 9

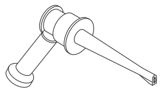

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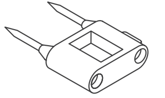

Fig. 11

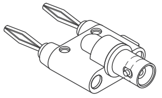

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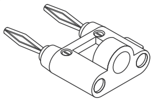

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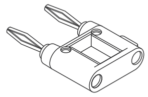

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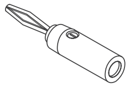

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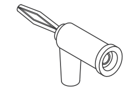

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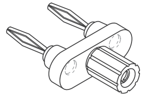

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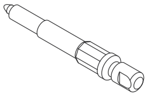

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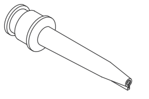

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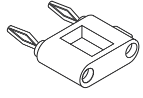

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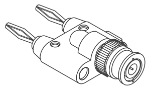

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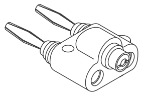

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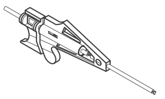

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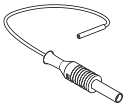

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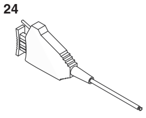

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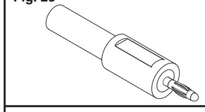

Fig. 26

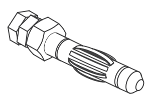

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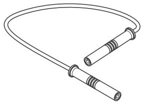

Fig. 28

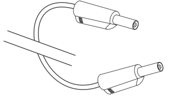

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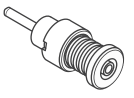

Fig. 30

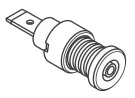

Fig. 31

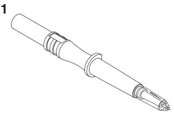

Fig. 32

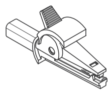

Fig. 33

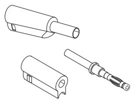

Fig. 34

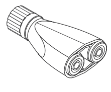

Fig. 35

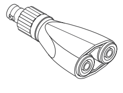

Fig.	Description	Digi-Key Part No.	Price Each		Pomona Part No.
			1	10	
1	Adapter-Binding Posts to BNC Recept. (one red, one black)	501-1122-ND	12.28	11.10	1452
2	Spring Loaded, Nickel Plated Brass, Black	501-1088-ND	21.50	19.43	4995-0
	Spring Loaded, Nickel Plated Brass, Red	501-1089-ND	21.50	19.43	4995-2
3	Standard, Tin Plated Brass, Black	501-1094-ND	3.25	2.94	3760-0
	Standard, Tin Plated Brass, Red	501-1095-ND	3.25	2.94	3760-2
4	Standard, Uninsulated, Nickel Plated Brass	501-1115-ND†	11.25	10.17	3267
5	Double Binding Post Assembly (one red, one black)	501-1126-ND	6.84	6.18	4243-0
6	BNC (Male) to Double Stacking Binding Post Jack	501-1033-ND	14.56	13.16	1296
7	Insulated Pin Tip, Gold Plated, Black	501-1091-ND†	29.25	26.43	3542-0
	Insulated Pin Tip, Gold Plated, Red	501-1092-ND†	29.25	26.43	3542-2
	Panel Mount Jack, Black	501-1078-ND†	15.07	13.62	1581-0
	Panel Mount Jack, Brown	501-1079-ND†	15.07	13.62	1581-1
	Panel Mount Jack, Red	501-1080-ND†	15.07	13.62	1581-2
	Panel Mount Jack, Orange	501-1081-ND†	15.07	13.62	1581-3
	Panel Mount Jack, Yellow	501-1082-ND†	15.07	13.62	1581-4
	Panel Mount Jack, Green	501-1083-ND†	15.07	13.62	1581-5
	Panel Mount Jack, Blue	501-1084-ND†	15.07	13.62	1581-6
	Panel Mount Jack, Violet	501-1085-ND†	15.07	13.62	1581-7
	Panel Mount Jack, Gray	501-1086-ND†	15.07	13.62	1581-8
	Panel Mount Jack, White	501-1087-ND†	15.07	13.62	1581-9
	Panel Mount Jack for Sheathed Plugs, Black (Threaded Stud)	501-1187-ND†	30.79	27.83	72912-0
	Panel Mount Jack for Sheathed Plugs, Red (Threaded Stud)	501-1188-ND†	30.79	27.83	72912-2
	Panel Mount Jack for Sheathed Plugs, Black (Solder Tab)	501-1189-ND†	26.43	23.88	72913-0
	Panel Mount Jack for Sheathed Plugs, Red (Solder Tab)	501-1190-ND†	26.43	23.88	72913-2
	Panel Mount Jack, Black (Threaded Stud, Hexagonal Nut)	501-1226-ND†	20.92	18.90	72930-0
	Panel Mount Jack, Brown (Threaded Stud, Hexagonal Nut)	501-1227-ND†	20.92	18.90	72930-1
	Panel Mount Jack, Red (Threaded Stud, Hexagonal Nut)	501-1228-ND†	20.92	18.90	72930-2
	Panel Mount Jack, Yellow (Threaded Stud, Hexagonal Nut)	501-1229-ND†	20.92	18.90	72930-4
	Panel Mount Jack, Green (Threaded Stud, Hexagonal Nut)	501-1230-ND†	20.92	18.90	72930-5
	Panel Mount Jack, Blue (Threaded Stud, Hexagonal Nut)	501-1231-ND†	20.92	18.90	72930-6
	Panel Mount Jack, Gray (Threaded Stud, Hexagonal Nut)	501-1233-ND†	20.92	18.90	72930-8
	Panel Mount Jack, White (Threaded Stud, Hexagonal Nut)	501-1234-ND†	20.92	18.90	72930-9
8	Miniature Insulated Jack, (one red, one black), Plate: Black	501-1124-ND	4.12	3.72	2143-0
9	Minigrabber® with Banana Jack, Black	501-1097-ND	5.56	5.03	4723-0
	Minigrabber with Banana Jack, Red	501-1098-ND	5.56	5.03	4723-2
10	Tip Plug with Shorting Bar, Black	501-1090-ND	5.63	5.09	3452-0
11	BNC (Female) to Double Stacking Banana Plugs	501-1032-ND	7.84	7.08	1269
12	Stackable Double with Cable Guide, Black	501-1071-ND	2.79	2.52	MDP-0
	Stackable Double with Cable Guide, Red	501-1072-ND	2.79	2.52	MDP-2
13	Double with Shorting Wire, Black	501-1073-ND	4.53	4.10	MDP-S-0
14	Solderless Stackable Type for Std., Nickel, Black	501-1074-ND†	15.95	14.42	1325-0
	Solderless Stackable Type for Std., Nickel, Red	501-1075-ND†	15.95	14.42	1325-2
15	Solderless Stackup with Safety Collar, Black	501-1076-ND†	16.10	14.55	1825-0
	Solderless Stackup with Safety Collar, Red	501-1077-ND†	16.10	14.55	1825-2
	Solderless Stackup with Safety Collar, Green	501-1247-ND†	16.10	14.55	1825-5
16	Encapsulated Double, Short Bar with Binding Post, Black	501-1093-ND	12.23	11.06	5165-0
17	Do-It-Yourself Retractable Sheath, with Instructions, Black	501-1119-ND	4.86	4.40	122505A
	Do-It-Yourself Retractable Sheath, with Instructions, Red	501-1120-ND	4.86	4.40	122506A
18	Do-It-Yourself Minigrabber Test Clip, Black	501-1244-ND†	18.28	16.52	3925-0
	Do-It-Yourself Minigrabber Test Clip, Red	501-1245-ND†	18.28	16.52	3925-2
19	Miniature Shorting Bar Plug, Black	501-1125-ND	6.09	5.51	2035-0
20	BNC (Male) to Double Stacking	501-1127-ND	11.37	10.28	1270
21	Phono Jack to Double Banana Plug	501-1129-ND	14.79	13.37	1442
22	Micro Grabber Test Clip Kit (12 Clips, 12 Leads and 6 Rods)	501-1171-ND	200.86	181.50	72902
	Micro Grabber Test Clip, Black	501-1172-ND	12.72	11.49	72902-0
	Micro Grabber Test Clip, Red	501-1173-ND	12.72	11.49	72902-2
23	Clip Lead for Micro Grabber, Black (0.8mm/4mm)	501-1177-ND	5.56	5.03	72905-0
	Clip Lead for Micro Grabber, Red (0.8mm/4mm)	501-1178-ND	5.56	5.03	72905-2
24	Mini SMD Grabber Test Clip, Black	501-1179-ND	10.38	9.38	72906-0
	Mini SMD Grabber Test Clip, Red	501-1180-ND	10.38	9.38	72906-2
25	Safety Banana Jack to Banana Plug Adapter, Black	501-1191-ND†	25.00	22.59	72914-0
	Safety Banana Jack to Banana Plug Adapt. (one red, one blk.)	501-1192-ND	5.00	4.52	72914-02
	Safety Banana Jack to Banana Plug Adapter, Red	501-1193-ND†	25.00	22.59	72914-2
	Banana Plug to Sheathed Banana Jack Adapter, Black	501-1198-ND†	23.32	21.08	72917-0
	Banana Plug to Sheathed Banana Jack Adapter, Red	501-1199-ND†	23.32	21.08	72917-2
26	4mm Banana Plug with Threaded M3 Stud	501-1200-ND†	10.26	9.27	72918
27	2mm Safety Sheathed Patch Cord, Black, 20”	501-1201-ND	6.03	5.45	72919-20-0
	2mm Safety Sheathed Patch Cord, Red, 20”	501-1202-ND	6.03	5.45	72919-20-2
	2mm Safety Sheathed Patch Cord, Black, 39”	501-1203-ND	6.47	5.85	72919-39-0
	2mm Safety Sheathed Patch Cord, Red, 39”	501-1204-ND	6.47	5.85	72919-39-2
28	Multi-stacking 2mm Safety Sheathed Patch Cord, Black, 20”	501-1205-ND	6.47	5.85	72920-20-0
	Multi-stacking 2mm Safety Sheathed Patch Cord, Red, 20”	501-1206-ND	6.47	5.85	72920-20-2
	Multi-stacking 2mm Safety Sheathed Patch Cord, Black, 39”	501-1207-ND	6.91	6.24	72920-39-0
	Multi-stacking 2mm Safety Sheathed Patch Cord, Red, 39”	501-1208-ND	6.91	6.24	72920-39-2
29	Safety Sheathed Jack, Black	501-1209-ND	2.32	2.10	72921-0
	Safety Sheathed Jack, Red	501-1210-ND	2.32	2.10	72921-2
30	Safety Sheathed Jack with Solder Tab, Black	501-1211-ND	2.49	2.25	72922-0
	Safety Sheathed Jack with Solder Tab, Red	501-1212-ND	2.49	2.25	72922-2
31	Test Probe with Sharp, Spring Mounted Tip, Black	501-1213-ND	11.11	10.04	72923-0
	Test Probe with Sharp, Spring Mounted Tip, Red	501-1214-ND	11.11	10.04	72923-2
32	Mini-alligator Clip with 2mm Jack, Black	501-1215-ND	6.13	5.54	72924-0
	Mini-alligator Clip with 2mm Jack, Red	501-1216-ND	6.13	5.54	72924-2
33	Do-It-Yourself 2mm Stackable Safety Sheathed Plug, Black	501-1217-ND	3.24	2.93	72925-0
	Do-It-Yourself 2mm Stackable Safety Sheathed Plug, Red	501-1218-ND	3.24	2.93	72925-2
34	Insulated BNC (m) to 2 Male Banana 4mm Plugs	501-1185-ND	15.06	13.61	72910
	Insulated BNC (m) to 2 4mm Banana Jacks	501-1242-ND	15.57	14.07	72937
35	Insulated BNC (f) to 2 Male Banana 4mm Plugs	501-1186-ND	18.74	16.94	72911
	Insulated BNC (f) to 2 4mm Banana Jacks	501-1243-ND	19.39	17.52	72938

† Package of 10

(Continued)

Cable Assemblies

Fig. 1

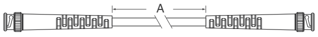

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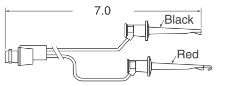

Fig. 3

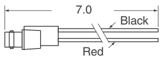

Fig. 4

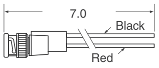

Fig. 5

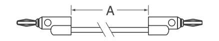

Fig. 6

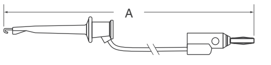

Fig. 7

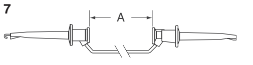

Fig. 8

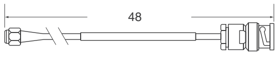

Fig. 9

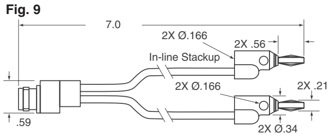

Fig. 10

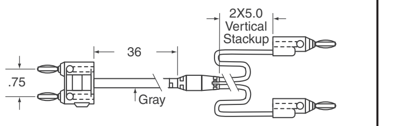

Fig. 11

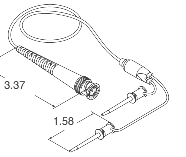

Fig. 12

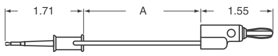

Fig. 13

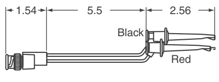

Fig. 14

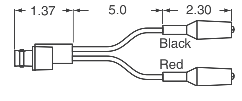

Fig. 15

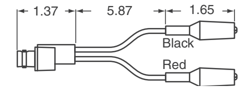

Fig. 16

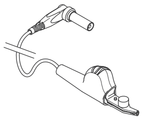

Fig. 17

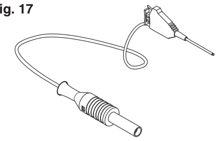

Fig. 18

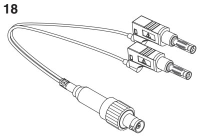

Fig. 19

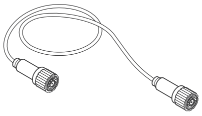

Fig. 20

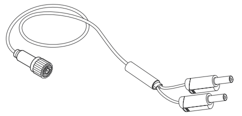

Fig. 21

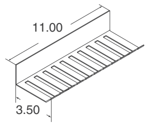

Model 2249: **Materials:** • Body: Brass, Tarnish resistant plating • Dielectric: PTFE • Center contact: Gold Plated Brass • Strain Relief: PVC molded directly to cable connectors **Ratings:** • Operating Voltage: Shield/Earth: 30VAC/60VDC maximum, Inner Conductor/Shield: 500VRMS maximum • Operating Temperature: 50°C (122°F) maximum
Model 3788: Minigrabber® test clip hooks attach to terminal sizes up to .060" diameter

Fig.	Description	Color	Dim. A Inch	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
1	BNC Male to BNC Male, RG58C/U, 50Ω	Black	12	501-1013-ND◆	15.62	14.12	2249-C-12
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	24	501-1016-ND◆	15.62	14.12	2249-C-24
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	36	501-1018-ND◆	15.62	14.12	2249-C-36
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	48	501-1019-ND◆	19.64	17.75	2249-C-48
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	60	501-1020-ND◆	19.64	17.75	2249-C-60
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	72	501-1021-ND◆	19.64	17.75	2249-C-72
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	120	501-1014-ND◆	23.42	21.17	2249-C-120
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	180	501-1015-ND◆	28.35	25.62	2249-C-180
	BNC Male to BNC Male, RG58C/U, 50Ω	Black	300	501-1017-ND◆	38.61	34.89	2249-C-300
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	12	501-1022-ND◆	16.73	15.12	2249-E-12
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	24	501-1024-ND◆	16.73	15.12	2249-E-24
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	36	501-1025-ND◆	16.73	15.12	2249-E-36
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	48	501-1026-ND◆	19.74	17.84	2249-E-48
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	60	501-1027-ND◆	19.74	17.84	2249-E-60
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	72	501-1028-ND◆	19.64	17.75	2249-E-72
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	120	501-1023-ND◆	23.66	21.38	2249-E-120
2	BNC Female to Minigrabber® Test Clip Breakout	—	—	501-1029-ND◆	11.25	10.17	3788
3	BNC (Female) to 20AWG Leads	—	—	501-1030-ND◆	7.69	6.95	4969
4	BNC (Male) to 20AWG Leads	—	—	501-1031-ND◆	10.26	9.27	4970
5	Stacking Banana Plug both Ends	Black	12	501-1041-ND◆	4.68	4.23	B-12-0
	Stacking Banana Plug both Ends	Red	12	501-1042-ND◆	4.68	4.23	B-12-2
	Stacking Banana Plug both Ends	Black	18	501-1043-ND◆	4.80	4.34	B-18-0
	Stacking Banana Plug both Ends	Red	18	501-1044-ND◆	4.80	4.34	B-18-2
	Stacking Banana Plug both Ends	Black	24	501-1045-ND◆	4.90	4.43	B-24-0
	Stacking Banana Plug both Ends	Red	24	501-1046-ND◆	4.90	4.43	B-24-2
	Stacking Banana Plug both Ends	Black	36	501-1047-ND◆	4.90	4.43	B-36-0
	Stacking Banana Plug both Ends	Red	36	501-1048-ND◆	4.90	4.43	B-36-2
	Stacking Banana Plug both Ends	Black	48	501-1049-ND◆	5.01	4.53	B-48-0
	Stacking Banana Plug both Ends	Red	48	501-1050-ND◆	5.01	4.53	B-48-2
	Stacking Banana Plug both Ends	Black	72	501-1051-ND◆	5.23	4.73	B-72-0
	Stacking Banana Plug both Ends	Red	72	501-1052-ND◆	5.23	4.73	B-72-2
6	Minigrabber Test Clip to Stacking Banana Plug	Black	12	501-1054-ND◆	5.86	5.30	3782-12-0
	Minigrabber Test Clip to Stacking Banana Plug	Red	12	501-1055-ND◆	5.86	5.30	3782-12-2
	Minigrabber Test Clip to Stacking Banana Plug	Black	24	501-1056-ND◆	5.96	5.39	3782-24-0
	Minigrabber Test Clip to Stacking Banana Plug	Red	24	501-1057-ND◆	5.96	5.39	3782-24-2
	Minigrabber Test Clip to Stacking Banana Plug	Black	36	501-1058-ND◆	6.03	5.45	3782-36-0
	Minigrabber Test Clip to Stacking Banana Plug	Red	36	501-1059-ND◆	6.03	5.45	3782-36-2
6	Minigrabber Test Clip to Stacking Banana Plug	Black	48	501-1060-ND◆	6.14	5.55	3782-48-0
	Minigrabber Test Clip to Stacking Banana Plug	Red	48	501-1061-ND◆	6.14	5.55	3782-48-2
7	Minigrabber Test Clip Patch Cord	Black	12	501-1062-ND◆	4.50	4.07	3781-12-0
	Minigrabber Test Clip Patch Cord	Red	12	501-1063-ND◆	4.50	4.07	3781-12-2
	Minigrabber Test Clip Patch Cord	Black	24	501-1064-ND◆	4.53	4.10	3781-24-0
	Minigrabber Test Clip Patch Cord	Red	24	501-1065-ND◆	4.53	4.10	3781-24-2
	Minigrabber Test Clip Patch Cord	Black	36	501-1066-ND◆	4.63	4.19	3781-36-0
	Minigrabber Test Clip Patch Cord	Red	36	501-1067-ND◆	4.63	4.19	3781-36-2
	Minigrabber Test Clip Patch Cord Kit*	—	24	501-1068-ND◆	42.36	38.28	5523
8	BNC (Male) to SMA (Male), RG316/U	—	48	501-1116-ND◆	47.64	43.05	4935-BB-48
9	BNC (Female) to Multi-Stacking Banana Plugs	Red/Blk	—	501-1117-ND◆	10.59	9.57	3073
10	Double Banana Plug to Single Banana Plug Breakouts	Red/Blk	36	501-1123-ND◆	28.35	25.62	1368-A-36
11	BNC Male to SMD Grabber® Test Clips	Red/Blk	24†	501-1162-ND◆	27.84	25.16	5304-K-24
	BNC Male to SMD Grabber Test Clips	Red/Blk	36†	501-1163-ND◆	27.84	25.16	5304-K-36
12	SMD Grabber to Stacking Banana Plug	Black	12	501-1164-ND◆	8.22	7.43	5302-12-0
	SMD Grabber to Stacking Banana Plug	Red	12	501-1165-ND◆	8.22	7.43	5302-12-2
	SMD Grabber to Stacking Banana Plug	Black	24	501-1166-ND◆	8.22	7.43	5302-24-0
	SMD Grabber to Stacking Banana Plug	Red	24	501-1167-ND◆	8.22	7.43	5302-24-2
	SMD Grabber to Stacking Banana Plug	Black	36	501-1168-ND◆	8.45	7.64	5302-36-0
	SMD Grabber to Stacking Banana Plug	Red	36	501-1169-ND◆	8.45	7.64	5302-36-2
13	BNC Male to Minigrabber Test Clip Breakout	Red/Blk	—	501-1137-ND◆	14.01	12.66	3789
14	BNC Female to Alligator Test Clips	Red/Blk	—	501-1130-ND◆	11.37	10.28	2630
15	BNC Female to Minigator Test Clips	Red/Blk	—	501-1131-ND◆	11.37	10.28	2631
16	5 Way Alligator to Sheathed Right Angle Set	Red/Blk	48†	501-1170-ND◆	32.32	29.21	6483-48-02
17	Mini SMD Grabber Test Lead, 2mm Jack	Black	20†	501-1181-ND◆	15.95	14.42	72907-20-0
	Mini SMD Grabber Test Lead, 4mm Jack	Black	20†	501-1224-ND◆	14.94	13.50	72929-20-0
	Mini SMD Grabber Test Lead, 4mm Jack	Red	20†	501-1225-ND◆	14.94	13.50	72929-20-2
18	IEC Insulated BNC (F) Stackable 4mm Plugs	Black	10†	501-1184-ND◆	18.08	16.34	72909
19	IEC Insulated BNC Male 50Ω Cable	Black	40†	501-1219-ND◆	13.28	12.00	72926-C-40
	IEC Insulated BNC Male 50Ω Cable	Black	80†	501-1220-ND◆	15.04	13.59	72926-C-80
20	IEC Insulated BNC (M) Stackable 4mm Plugs	Black	10†	501-1183-ND◆	16.47	14.88	72908
	Insulated BNC Male/4mm Plugs	Black	80†	501-1222-ND◆	21.15	19.11	72927-C-80
	Test Cable Holders (Cold Rolled Steel)						
21	Accepts Cable Size Types RG 59 and RG 108	Black	—	501-1113-ND◆	10.29	9.30	4408/POM
	Accepts Cable Size Types RG 213 and RG 214	Blue	—	501-1114-ND	12.47	11.27	2708
	Accepts Cable Size Types RG 58 and RG 142	Orange	—	501-1053-ND	12.47	11.27	1508/POM

◆ ***RoHS Compliant*** *** Kit contains 10 Pieces of Model 3781-24** *(One of each color: Black, Red, Brown, Orange, Yellow, Green, Blue, Violet, Gray and White)* † Overall length

3M Patch Cords and Accessories

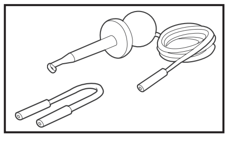

Compatible with 3M breadboards, terminal strips, super-strips, distribution strips, test clips, miniature 8-pin connectors and .025" (.64mm) square wrap posts.
- Ideal for breadboarding and troubleshooting
- Incorporate 26AWG stranded wire with PVC insulation
- Rugged, integral strain relief
- Choices of two pin sizes — .019" and .030" (.48mm and .76mm), and two socket sizes — .019" ~ .028" and .028" ~ .035" (.48mm ~ .71mm and .71mm ~ .89mm) and E-Z Hook terminations

ASSORTMENT A (20 Pieces) — 9 pieces 2" (50.80mm) long yellow, 6 pieces 4" (101 .60mm) long blue, 3 pieces 6" (152.40mm) long red, 2 pieces 9" (228.60mm) long black

ASSORTMENT B (10 Pieces) — 5 pieces 15" (381mm) long red, 5 pieces 15" (381mm) long black

Pin/Socket – Size Inch	Pin/Socket – Size mm	Color/Length Assortment	Pieces/ Pack	Recommended Applications	Digi-Key Part No.	Price Per Pack
Pin Plug to Pin Plug						
.019	.48	Assortment A	20	IC Sockets	924961-ND	63.04
.030	.76	Assortment A	20	Breadboard	924962-ND	60.04
Socket to Socket						
.019/.028	.48/.71	Assortment A	20	Extension for .019" (.48mm) Pin Plug	924963-ND	113.26
.028/.035	.71/.89	Assortment A	20	TC to TC, TC to .025" (.64mm) Square Post	924964-ND	131.32
Pin Plug to Socket						
.030 (.028/.035)	.76 (.71/.89)	Assortment A	20	Breadboard to TC, .025" (.64mm) Sq. Post	924966-ND	88.98
Pin Plug to Probe-It						
.019	.48	Assortment B	10	IC Socket to TC, .025" (.64mm) Sq. Post, etc.	924967-ND	97.46
.030	.76	Assortment B	10	Breadboard to TC, .025" (.64mm) Post, etc.	924968-ND	56.78
Socket to Probe-It						
.028/.035	.71/.89	Assortment B	10	TC, .025" Post to TC, .025" (.64mm) Post, etc.	924970-ND	64.30

NEW! Clips

Fig. 1

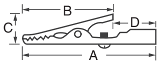

Fig. 2

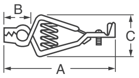

Fig. 3

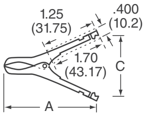

Fig.	Description	Dimensions – Inch (mm) A	B	C	D	Jaw Opening Inch (mm)	Current Rating (A)	Material	Termination	Insulation	Digi-Key Part No.	Pricing 1	100	500	TPI Part No.
—	Narrow Alligator Clip	—	—	—	—	.188 (4.78)	5	Steel	Crimp or Solder	Non-insulated	290-1951-ND	.18	16.50	75.00	BC30ANP
1	Narrow Alligator Clip	1.97 (50.04)	.625 (15.88)	.437 (11.11)	.75 (19.05)	.31 (7.87)	10	Copper	Screw	Non-insulated	290-1940-ND	.44	41.25	187.50	BC60AC
	Narrow Alligator Clip	1.97 (50.04)	.625 (15.88)	.437 (11.11)	.75 (19.05)	.31 (7.87)	10	Stainless Steel	Crimp or Solder	Non-insulated	290-1941-ND	.47	44.55	202.50	BC60AST
	Narrow Alligator Clip	1.97 (50.04)	.625 (15.88)	.437 (11.11)	.75 (19.05)	.31 (7.87)	10	Steel	Crimp or Solder	Non-insulated	290-1942-ND	.23	21.45	97.50	BC60ANP
—	Heavy Duty Alligator Clip	—	—	—	—	.75 (19.05)	25	Steel	Crimp or Screw	Non-insulated	290-1939-ND	.68	64.35	292.50	BC24AZP
2	Medium Narrow Alligator Clip	2.44 (61.98)	.531 (13.49)	.687 (17.46)	—	.625 (15.88)	40	Copper	Crimp or Screw	Non-insulated	290-1943-ND	1.17	110.55	502.50	BC27AC
	Medium Narrow Alligator Clip	2.44 (61.98)	.531 (13.49)	.687 (17.46)	—	.625 (15.88)	20	Steel	Crimp or Screw	Non-insulated	290-1944-ND	.51	47.85	217.50	BC27AZP
	Medium Alligator Clip	3.00 (76.20)	.656 (16.67)	.937 (23.81)	—	.75 (19.05)	40	Steel	Crimp or Screw	Non-insulated	290-1945-ND	.86	80.85	367.50	BC25AZP
	Medium Alligator Clip	3.00 (76.20)	.656 (16.67)	.937 (23.81)	—	.75 (19.05)	75	Copper	Crimp or Screw	Non-insulated	290-1946-ND	2.38	224.40	1020.00	BC25AC
3	Plunger Clamp Clip	2.88 (73.15)	—	2.00 (50.80)	—	1.125 (28.58)	50	Copper	Crimp or Solder	Insulated PVC	290-1947-ND	1.56	146.85	667.50	BC6TRC
	Plunger Clamp Clip	2.88 (73.15)	—	2.00 (50.80)	—	1.125 (28.58)	50	Copper	Crimp or Solder	Insulated PVC	290-1948-ND	1.56	146.85	667.50	BC6TBC
	Plunger Clamp Clip	2.88 (73.15)	—	2.00 (50.80)	—	1.125 (28.58)	75	Copper	Crimp or Solder	Insulated PVC	290-1949-ND	.68	64.35	292.50	BC46TRCP
	Plunger Clamp Clip	2.88 (73.15)	—	2.00 (50.80)	—	1.125 (28.58)	75	Copper	Crimp or Solder	Insulated PVC	290-1950-ND	.68	64.35	292.50	BC46TBCP

Test Equipment - Clips

Fig. 1

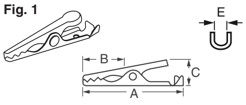

Model BU-30/BU-30C shown

Fig. 2

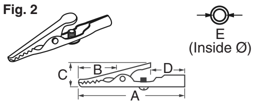

Model BU-60S/BU-60CS shown

Fig. 3

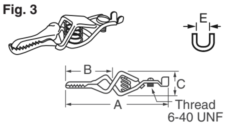

Fig. 4

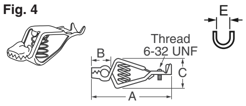

Model BU-48/BU-48C shown

Fig. 5

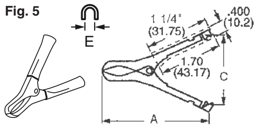

Fig	Description	Dimensions – Inch (mm) A	B	C	D	E	Jaw Opening Inch (mm)	Current Rating (A)	Material	Connection Type	Digi-Key Part No.	Price Each	Mueller Part No.
1	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5	Steel	Solder/Crimp	314-1010-ND◆	.25	BU-30
	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5	Copper	Solder/Crimp	314-1012-ND◆	.37	BU-30C
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5	Steel	Solder/Crimp	314-1017-ND◆	.46	BU-34
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5	Copper	Solder/Crimp	314-1018-ND◆	.60	BU-34C
2	Mini Alligator Clip with Barrel	1-1/4 (31.75)	7/16 (11.11)	5/16 (7.94)	1/4 (6.35)	1/8 (3.17)	3/16 (4.8)	5	Steel	Solder/Crimp	314-1011-ND◆	.24	BU-30BL
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10	Steel	Solder/Crimp	314-1033-ND◆	.30	BU-60
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10	Copper	6/40Screw	314-1034-ND◆	.75	BU-60CS
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10	Steel	6/40Screw	314-1035-ND◆	.41	BU-60S
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10	Stainless Steel	Solder/Crimp	314-1036-ND◆	.83	BU-60X
3	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	5	Steel	Crimp/6-40 Screw	314-1039-ND◆	.55	BU-85
	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	10	Copper	Crimp/6-40 Screw	314-1040-ND◆	1.10	BU-85C
4	Heavy Duty Clip	2-27/32 (72.23)	7/16 (11.11)	1-1/8 (28.57)	—	1/4 (6.35)	3/4 (19)	25	Steel	Crimp/8-32 Screw	314-1001-ND◆	1.14	BU-24APN
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	40	Steel	Crimp/8-32 Screw	314-1002-ND◆	1.01	BU-25
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	75	Copper	Crimp/8-32 Screw	314-1003-ND◆	2.50	BU-25C
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	20	Steel	Crimp/6-32 Screw	314-1006-ND◆	.70	BU-27
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	40	Copper	Crimp/6-32 Screw	314-1007-ND◆	1.18	BU-27C
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	5	Steel	Crimp/6-40 Screw	314-1021-ND◆	.50	BU-45
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	10	Copper	Crimp/6-40 Screw	314-1022-ND◆	.82	BU-45C
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	10	Steel	Crimp/6-32 Screw	314-1029-ND◆	.67	BU-48B
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	20	Copper	Crimp/6-32 Screw	314-1030-ND◆	.93	BU-48C
5	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1023-ND◆	.94	BU-46A-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1024-ND◆	.94	BU-46A-2
	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1025-ND	1.70	BU-46C-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1026-ND	1.70	BU-46C-2

◆ ***RoHS Compliant***

Insulators

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Protective Vinyl Insulator	Black	BU-24APN/25/25C	314-1004-ND	.91	BU-26-0
	Red	BU-24APN/25/25C	314-1005-ND	.91	BU-26-2
Flexible Vinyl Insulator	Black	BU-27/27C	314-1008-ND	.60	BU-29-0
	Red	BU-27/27C	314-1009-ND	.60	BU-29-2
Tough, Flexible Vinyl Insulator	Black	BU-30BL	314-1013-ND	.21	BU-31-0
	Red	BU-30BL	314-1014-ND	.21	BU-31-2
Skin-tight, Flexible Vinyl Insulator	Black	BU-30/30C	314-1015-ND	.19	BU-32-0
	Red	BU-30/30C	314-1016-ND	.19	BU-32-2

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Skin-tight, Flexible Vinyl Insulator	Black	BU-34/34C	314-1019-ND	.19	BU-36-0
	Red	BU-34/34C	314-1020-ND	.19	BU-36-2
Durable, Flexible Vinyl Insulator	Black	BU-45/45C	314-1027-ND	.23	BU-47-0
	Red	BU-45/45C	314-1028-ND	.23	BU-47-2
Durable, Flexible Vinyl Insulator	Black	BU-48B/48C	314-1031-ND	.53	BU-49-0
	Red	BU-48B/48C	314-1032-ND	.53	BU-49-2
Tough, Flexible Vinyl Insulator	Black	BU-60/60CS/60/S/60X	314-1037-ND	.21	BU-62-0
	Red	BU-60/60CS/60/S/60X	314-1038-ND	.21	BU-62-2
Tough, Flexible Vinyl Insulator	Black	BU-85/85C	314-1041-ND	.35	BU-87-0
	Red	BU-85/85C	314-1042-ND	.35	BU-87-2

CUI INC Alligator Clips

Fig. 1

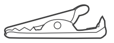

Fig. 2

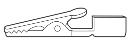

Fig. 3 – Large with Screw Connector

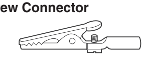

Fig. 4 – Small with Solder Connector

Fig. 5 – X-Large Barrel Type with Solder Connector

Fig. 6

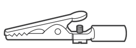

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
1	Without Cover, 27mm	CP-2400-ND	.36	.30	.23	103A
	Without Cover, 35mm	CP-2401-ND	.36	.30	.23	105A
	Without Cover, 44mm	CP-2402-ND	.36	.30	.23	110AR
	With Screw, 44mm	CP-2405-ND	.44	.36	.28	110ARS
2	Without Cover, 50mm	CP-2403-ND	.40	.33	.25	110AN
3	With Wire Terminals, 50mm	CP-2404-ND	.44	.36	.28	110AS
4	With Cover, Black, 27mm	CP-2406-ND	.44	.36	.28	103A-C-BK
	With Cover, Red, 27mm	CP-2407-ND	.44	.36	.28	103A-C-RD

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
5	With Cover, Black, 35mm	CP-2408-ND	.44	.36	.28	105A-C-BK
	With Cover, Red, 35mm	CP-2409-ND	.44	.36	.28	105A-C-RD
	With Cover, Black, 44mm	CP-2410-ND	.52	.43	.33	110AR-C-BK
	With Cover, Red, 44mm	CP-2411-ND	.52	.43	.33	110AR-C-RD
	With Screw and Cover, Black, 44mm	CP-2412-ND	.60	.49	.38	110ARS-C-BK
	With Screw and Cover, Red, 44mm	CP-2413-ND	.60	.49	.38	110ARS-C-RD
6	With Handle, Black, 50mm	CP-2414-ND	.52	.43	.33	110AS-P-BK
	With Handle, Red, 50mm	CP-2415-ND	.52	.43	.33	110AS-P-RD

3M Electronic Specialty Products

Probe-It

The 3M series of Probe-It plunger-actuated clips make test connections to individual component leads faster and easier. Simply press cap to extend the hook contact, place on component lead or wire under test, and release for hands-free troubleshooting and circuit testing. When removed from the lead, the hook contact retracts into the plastic tip to minimize the possibility of shorting components.

Specifications: • **Contact:** Phosphor bronze, solder type termination • **Body:** Nylon • **Suggested Wire:** 26AWG (7-strand, tinned copper wire)

Dimensions in mm

Description	Color	Digi-Key Part No.	Price / Pkg.
Micro Probe-It (2/pkg)	Red	923830-RD-ND	10.48
	Black	923830-BK-ND	10.48
	Blue	923830-BU-ND	10.48
	Green	923830-GN-ND	10.48
	Yellow	923830-YL-ND	10.48
	White	923830-WT-ND	10.48
Mini Probe-It (2/pkg)	Red	923835-RD-ND	10.08
	Black	923835-BK-ND	10.08
	Green	923835-GN-ND	10.08
	Yellow	923835-YL-ND	10.08
	White	923835-WT-ND	10.08
Standard Probe-It (2/pkg)	Red	923840-RD-ND	16.12
Maxi Probe-It (2/pkg)	Red	923845-RD-ND	23.48
	Black	923845-BK-ND	16.92
Micro Probe-It Assort. (6/pkg)	1 of each	923848-ND	27.96
Mini Probe-It Assort. (6/pkg)	1 of each	923850-ND	30.07

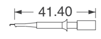

MICRO

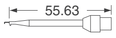

MINI

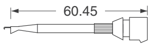

STANDARD

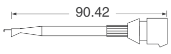

MAXI

GC ELECTRONICS

Jumper Wire Test Leads

Handy test leads with insulated alligator clips attached to each end. Each package contains black, red, white, green and yellow jumpers.

Description	Digi-Key Part No.	Price Each	GC Electronics Part No.
Standard Test Leads, 2 Each, 15" (38.10cm) long 27 AWG wires (10/Pkg.)	GC396-ND	6.44	12-1650
Heavy Duty Test Leads, 1 Each, 22" (55.88cm) long 21 AWG wires (5/Pkg.)	GC397-ND	6.91	12-1655

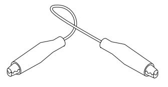

E-Z-HOOK Electronic Test Accessories

Hooks

Set of 10 contains one each of brown, black, red, orange, yellow, green, blue, violet, gray and white.

Dimensions in Inches

Fig. 1 – Double Hook

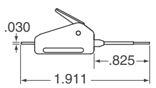

Fig. 2 – Pico-Hook

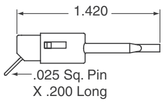

Fig. 3 – Micro-Hook

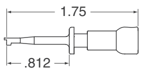

Fig. 4 – Double Micro-Hook

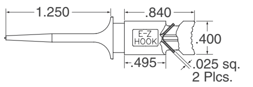

Fig. 5 – Mini-Hook

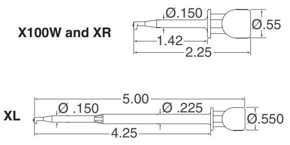

Fig. 6 – Macro-Hook

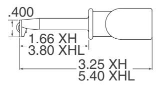

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	.006" Diameter Wire Double Hook, .025" Spacing	Black	461-1000-ND	17.43	15.75	13.97	X2015 BLK
		Red	461-1001-ND	17.43	15.75	13.97	X2015 RED
2	Pico-Hook with .025" Square Pin, Gold-Plated	Black	461-1002-ND	3.47	3.14	2.78	P25 BLK
		Red	461-1003-ND	3.47	3.14	2.78	P25 RED
3	Micro-Hook Test Connector	Black	461-1004-ND	1.93	1.74	1.55	XM BLK
		Red	461-1005-ND	1.93	1.74	1.55	XM RED
		Set/10	461-1006-ND	19.09	17.25	15.30	XM-S
	Micro-Hook with .025" Square Pin	Black	461-1007-ND	3.30	2.99	2.65	XM25 BLK
		Red	461-1008-ND	3.30	2.99	2.65	XM25 RED
4	E-Z-Micro Double Gripper	Black	461-1009-ND	2.66	2.40	2.13	XKM BLK
		Red	461-1010-ND	2.66	2.40	2.13	XKM RED
		Gray	461-1011-ND	2.66	2.40	2.13	XKM GRAY
		Set/10	461-1012-ND	26.39	23.85	21.15	XKM-S
5	Mini-Hook Test Connector	Black	461-1013-ND	1.74	1.58	1.40	X100W BLK
		Red	461-1014-ND	1.74	1.58	1.40	X100W RED
		Set/10	461-1015-ND	17.26	15.60	13.84	X100W-S
	Mini-Hook XR, Heavy Duty Hook	Black	461-1018-ND	2.12	1.92	1.71	XR BLK
		Red	461-1019-ND	2.12	1.92	1.71	XR RED
6	Macro-Hook Test Connector	Black	461-1020-ND	5.61	5.07	4.50	XH BLK
		Red	461-1021-ND	5.61	5.07	4.50	XH RED

Panel Mounts

Set of 10 contains one each of brown, black, red, orange, yellow, green, blue, violet, gray and white.

Dimensions in Inches

Fig. 1 – Banana Jack

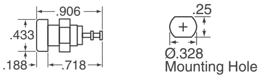

Fig. 2 – Double Banana Jack

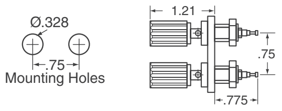

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Standard Banana Jack	Red/Black	461-1215-ND	2.16	1.95	1.73	9284 R/B
	Standard Banana Jack	Set/10	461-1216-ND	10.79	9.75	8.65	9284-S
2	Double Standard Banana Jack with Binding Post	Red/Black	461-1217-ND	6.89	6.23	5.52	9406

Adapters

Dimensions in Inches

Fig. 1 – Jack to Alligator

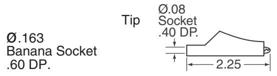

Fig. 2 – BNC to Double Banana Plug

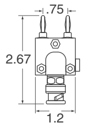

Fig. 3 – Hook to Banana Jack

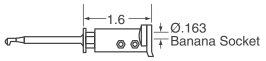

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Standard Banana Jack to Standard Alligator Clip	Red/Black	461-1208-ND◆	1.56	1.41	1.26	8016 R/B
2	BNC Female to Standard Double Banana Plug	Black	461-1278-ND	7.24	6.54	5.80	9225
	BNC Male to Standard Double Banana Plug	Black	461-1279-ND	8.02	7.25	6.43	9248
3	Mini-Hook w/ Standard Banana Jack Plunger	Red/Black	461-1218-ND◆	8.63	7.80	6.92	8036 R/B

◆ *RoHS Compliant*

Connectors

Set of 10 contains one each of brown, black, red, orange, yellow, green, blue, violet, gray and white.

Dimensions in Inches

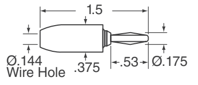

Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Standard Banana Plug	Red/Black	461-1214-ND	2.86	2.58	2.29	9202 R/B
Standard Banana Plug	Set/10	461-1213-ND	14.11	12.75	11.31	9202-S

(Continued)

E-Z-HOOK Electronic Test Accessories *(Cont.)*

Test Leads

Tinned copper with flexible PVC insulation.

Set of 10 contains one each of brown, black, red, orange, yellow, green, blue, violet, gray and white.
Set of 2 contains one black and one red.

Dimensions in Inches

Fig. 1 – Pico-Hook

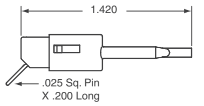

Fig. 2 – Micro-Hook

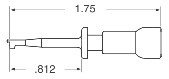

Fig. 3 – Mini-Hook, X100W and XR

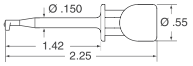

Fig. 4 – Mini-Alligator

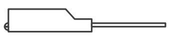

Fig. 5 – Standard Alligator

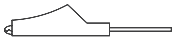

Fig.	Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
	Hook Test Leads — RoHS Compliant								
1	E-Z Pico-Hook to Pico-Hook	28 (19 x 40)	Black	12	461-1042-ND	5.40	4.88	4.33	P704-12 BLK
			Red	12	461-1043-ND	5.40	4.88	4.33	P704-12 RED
	Pico-Hook to .025” Square Socket	28 (19 x 40)	Set/10	12	461-1166-ND	51.96	46.95	41.63	P703-12-S
2	Micro-Hook to Micro-Hook	22 (65 x 40)	Black	12	461-1036-ND	4.57	4.13	3.66	204XM-12 BLK
			Red	12	461-1037-ND	4.57	4.13	3.66	204XM-12 RED
			Set/10	12	461-1038-ND	44.99	40.65	36.05	204XM-12-S
			Black	24	461-1039-ND	4.57	4.13	3.66	204XM-24 BLK
			Red	24	461-1040-ND	4.57	4.13	3.66	204XM-24 RED
			Set/10	24	461-1041-ND	44.99	40.65	36.05	204XM-24-S
	Micro-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1044-ND	4.13	3.74	3.32	BXM-18 BLK
			Red	18	461-1045-ND	4.13	3.74	3.32	BXM-18 RED
			Set/2	18	461-1046-ND	8.27	7.47	6.63	BXM-18 R/B
			Set/10	18	461-1149-ND	41.17	37.20	32.99	BXM-18-S
			Set/2	36	461-1049-ND	8.27	7.47	6.63	BXM-R/B
			Set/10	36	461-1150-ND	41.17	37.20	32.99	BXM-S
3	Mini-Hook to Mini-Hook	22 (65 x 40)	Black	12	461-1030-ND	4.32	3.90	3.46	204-12W BLK
			Red	12	461-1031-ND	4.32	3.90	3.46	204-12W RED
			Set/10	12	461-1032-ND	42.50	38.40	34.05	204-12W-S
			Black	24	461-1033-ND	4.32	3.90	3.46	204-24W BLK
			Red	24	461-1034-ND	4.32	3.90	3.46	204-24W RED
			Set/10	24	461-1035-ND	42.50	38.40	34.05	204-24W-S
			Set/10	36	461-1148-ND	42.83	38.70	34.32	204-36W-S
	Mini-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1050-ND	4.15	3.75	3.33	BX1W-18 BLK
			Red	18	461-1051-ND	4.15	3.75	3.33	BX1W-18 RED
			Set/2	18	461-1052-ND	8.30	7.50	6.65	BX1W-18 R/B
			Set/10	18	461-1151-ND	44.82	40.50	35.91	BX1W-18-S
			Black	36	461-1053-ND	4.15	3.75	3.33	BX1W-BLK
			Red	36	461-1054-ND	4.15	3.75	3.33	BX1W-RED
			Set/10	36	461-1152-ND	44.82	40.50	35.91	BX1W-S
	Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Set/2	18	461-1058-ND	11.19	10.11	8.97	601W-18 R/B
			Set/10	18	461-1153-ND	55.61	50.25	44.56	601W-18-S
			Black	36	461-1059-ND	5.59	5.06	4.49	601W-36 BLK
			Red	36	461-1060-ND	5.59	5.06	4.49	601W-36 RED
			Set/2	36	461-1061-ND	11.19	10.11	8.97	601W-36 R/B
			Set/10	36	461-1154-ND	55.61	50.25	44.56	601W-S
	XR Heavy Duty Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Set/10	18	461-1159-ND	56.77	51.30	45.49	601XR-18-S
	Alligator Clip Test Leads								
4	Mini-Alligator Clip to Mini-Alligator Clip Jumper	22 (65 x 40) (65 x 4)	Set/2	12	461-1169-ND	6.87	6.21	5.51	284M-12 R/B
			Set/10	12	461-1170-ND	34.36	31.05	27.54	284M-12-S
			Set/10	36	461-1172-ND	34.36	31.05	27.54	284M-36-S
5	Std. Alligator Clip to Stacking Banana Clip	18 (65 x 36)	Set/2	36	461-1173-ND	10.19	9.21	8.17	681 R/B
			Set/10	36	461-1174-ND	49.80	45.00	39.90	681-S
5	Std. Alligator Clip to Std. Alligator Jumper	18 (65 x 36)	Set/10	12	461-1176-ND	41.83	37.80	33.52	684-12-S
			Set/2	24	461-1177-ND	8.60	7.77	6.89	684-24 R/B
			Set/10	24	461-1178-ND	41.83	37.80	33.52	684-24-S
			Set/10	36	461-1180-ND	41.83	37.80	33.52	684-36-S

Patch Cords

Tinned copper with flexible PVC insulation.

Set of 10 contains one each of brown, black, red, orange, yellow, green, blue, violet, gray and white.

Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Standard Banana Plug to Standard Banana Plug	22 (65 x 40)	Black	18	461-1068-ND	4.57	4.13	3.66	9105-18 BLK
		Red	18	461-1069-ND	4.57	4.13	3.66	9105-18 RED
		Black	36	461-1070-ND	4.57	4.13	3.66	9105-36 BLK
		Red	36	461-1071-ND	4.57	4.13	3.66	9105-36 RED
Stacking Banana Plug with Heavy Wire to Stacking Banana Plug	18 (65 x 36)	Black	12	461-1126-ND	6.44	5.82	5.17	9111-12 BLK
		Red	12	461-1125-ND	6.44	5.82	5.17	9111-12 RED
		Set/10	12	461-1127-ND	63.08	57.00	50.54	9111-12-S
		Black	18	461-1072-ND	6.52	5.90	5.23	9111-18 BLK
		Red	18	461-1073-ND	6.52	5.90	5.23	9111-18 RED
		Black	24	461-1129-ND	6.52	5.90	5.23	9111-24 BLK
		Red	24	461-1128-ND	6.52	5.90	5.23	9111-24 RED
		Set/10	24	461-1130-ND	64.57	58.35	51.74	9111-24-S
		Black	36	461-1074-ND	6.61	5.97	5.30	9111-36 BLK
		Red	36	461-1075-ND	6.61	5.97	5.30	9111-36 RED
		Set/10	36	461-1131-ND	64.57	58.35	51.74	9111-36-S
		Black	48	461-1133-ND	6.84	6.18	5.48	9111-48 BLK
		Red	48	461-1132-ND	6.84	6.18	5.48	9111-48 RED
		Set/10	48	461-1134-ND	68.06	61.50	54.53	9111-48-S
		Black	72	461-1139-ND	7.04	6.36	5.64	9111-72 BLK
		Red	72	461-1138-ND	7.04	6.36	5.64	9111-72 RED
.025” to .025” Square Socket Gold Plated	22 (65 x 40)	Black	12	461-1094-ND	3.54	3.20	2.84	9110-12 BLK
		Red	12	461-1095-ND	3.54	3.20	2.84	9110-12 RED
		Set/10	12	461-1141-ND	34.53	31.20	27.67	9110-12-S
		Black	24	461-1096-ND	3.54	3.20	2.84	9110-24 BLK
		Red	24	461-1097-ND	3.54	3.20	2.84	9110-24 RED
		Set/10	24	461-1142-ND	34.53	31.20	27.67	9110-24-S

Flexible Test Lead Wires

Features:
- PVC Insulated
- 100 Feet Length
- Temperature: 105°C (200 Series: 60°C UL)
- Tinned copper

Description	AWG	Insulation Thickness (Inches)	WV DC	Nom. O.D. (In.)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
200 Series	22 (65 x 40)	.018	1000 (300UL)	.070	461-1114-ND	32.90	29.73	26.37	9504-100FT BLK
		.018	1000 (300UL)	.070	461-1115-ND	32.90	29.73	26.37	9504-100FT RED
500 Series	20 (105 x 40)	.020	1000	.080	461-1116-ND	35.52	32.10	28.47	9505-100FT BLK
		.020	1000	.080	461-1117-ND	35.52	32.10	28.47	9505-100FT RED
700 Series	28 (19 x 40)	.015	600	.047	461-1113-ND	22.91	20.70	18.36	9501-100FT RED

Test Cable Wall Brackets

Features:

- Material: Steel

- Finish: Blue Powder Coat

13 Slot Bracket

Dimensions in Inches

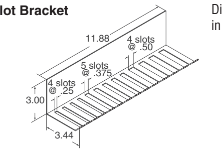

Description	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
6 Slot Bracket	461-1120-ND	8.42	7.61	6.75	WB6
13 Slot Bracket	461-1121-ND	11.62	10.50	9.31	WB14

Coaxial Test Cables

Male Connectors: Brass body and fittings, PTFE insulators, silver or gold plated brass contact, bright tarnish resistant metal alloy finish.
Female Connectors: Brass body and fittings, PTFE insulators, silver or gold plated beryllium copper contact, bright tarnish resistant metal alloy finish.

Dimensions in Inches

Fig. 1

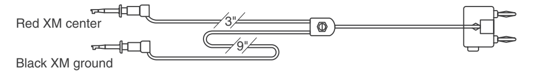

Fig. 2

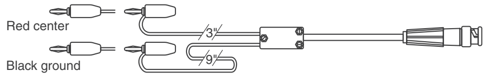

Fig.	Description	Cable	Center	Ground	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Stacking Double Banana to XM Hook	RG58C/U	XM	XM	36	461-1193-ND	16.60	15.00	13.30	1050XM-36
2	BNC Male to Stacking Banana Plug	RG58C/U	Stacking Banana	Stacking Banana	18	461-1203-ND	17.26	15.60	13.84	1224-18
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	30	461-1189-ND◆	16.60	15.00	13.30	1020-30
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	60	461-1190-ND◆	17.85	16.13	14.30	1020-60
	BNC Male to XR Hook	RG58C/U	XR	XR	18	461-1191-ND◆	16.43	14.85	13.17	1020XR-18
	BNC Male to XR Hook	RG58C/U	XR	XR	36	461-1192-ND◆	16.85	15.23	13.50	1020XR-36
3	BNC Breakout Female to X100W Hook	20AWG (105 x 40)	X100W	X100W	9/3	461-1187-ND	12.07	10.91	9.67	1001
4	BNC Male to BNC Male with Strain Relief Boots	RG58C/U	—	—	18	461-1194-ND◆	15.27	13.80	12.24	1026-18
			—	—	36	461-1195-ND◆	15.74	14.22	12.61	1026-36
			—	—	60	461-1196-ND◆	16.60	15.00	13.30	1026-60
	BNC Female to BNC Male with Strain Relief Boots	RG58C/U	—	—	36	461-1198-ND◆	20.40	18.44	16.35	1025-36
			—	—	60	461-1199-ND◆	21.68	19.59	17.37	1025-60

◆ ***RoHS Compliant***

Fig. 3

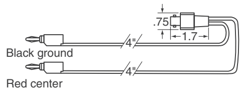

Fig. 4

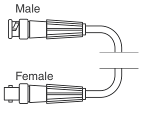

1025 Series Shown

Microscopes

Stereo Zoom Microscope with Ring Light

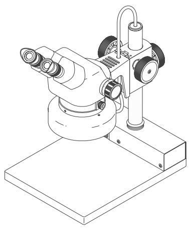

Model SPZ-50PFM (26800B-371) Stereo Zoom Microscope mounted on a pole stand with a built in fluorescent ring light

Specifications:

- Magnification: 6.7x to 50x zoom-108mm working distance
- Coarse focusing knobs with tension control ring
- Incident Light: Fluorescent 9W lamp
- Field of View: 26800B-302: 23x; 26800B-371: 34.3mm
- Limited Lifetime Warranty

243-1062-ND (26800B-371).. **$1419.30**

Pocket Microscope with Built-in Light

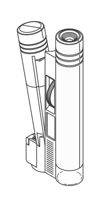

Perfect "Carry With" Microscope with a built in light source. (requires two AA batteries-not included).

Specifications:

- Magnification: 40x
- Field of View: 4.4mm
- Scale Calibration: 0.05mm
- Maximum Measurement: 4mm

243-1047-ND (26800C-534)... **$49.75**

Pocket Microscope

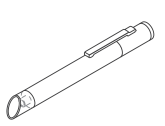

"Pen Size" powerful direct measuring pocket scope for quick close examination. Comes with a measuring metric glass reticle. Scope has an aluminum case with a satin finish and pocket clip.

Specifications:

- Magnification: 25x
- Field of View: 3.24mm
- Scale Calibration: 0.05mm
- Measurement Range: 0-3mm

243-1046-ND (26800C-533)... **$49.75**

iLoupe XL Portable Digital Microscope

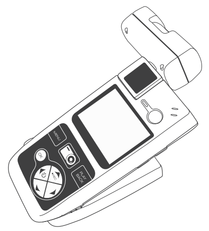

The hand-held portable microscope provides: • 3X ~ 300X magnification • A 5 Mega pixels high resolution sensor for detailed images • A 2 inch LCD display for easy viewing, capturing and recording of magnified images • 180 degree rotated lens tube allows user to capture magnified images at any angles • Includes an SD Card for storing images and editing on a PC • Easy to use Touchpad controls • The built-in 6 White-light LEDs and adjustable illumination ensure the magnified images are clear and bright • Rechargeable lithium-ion battery, the microscope can be used continuously for more than 5 hours • TV Video Out allows you to see images on TV

243-1066-ND (26700-520) **$546.80**

Magnifying Lamps

ProVue Illuminated Magnifier

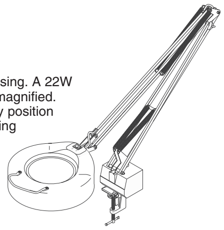

Crystal-clear lens for 360° distortion-free viewing mounted in metal housing. A 22W fluorescent bulb provides shadow-free light around the object being magnified. Housing is mounted on a 45" spring-balanced arm that stays set in any position and features a tension control knob at the arm. Complete with mounting clamp and 5-foot, 2-wire cord. One year warranty (except bulb).

Description	Color	Digi-Key Part No.	Price Each	Aven Part No.
5" Diameter, 3 Diopter	Ivory	243-1025-ND	86.32	26501-SIV

ProVue Deluxe and LED Powered Magnifying Lamps

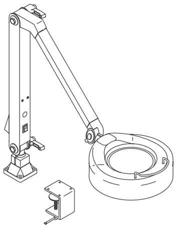

ProVue Deluxe A 3 Diopter 5-Inch diameter crystal-clear lens for 360° distortion-free viewing mounted. **Features:** • Heavy duty industrial grade arm with internal springs • Brushed silver metal housing • Arm Reach 35" • C-mount clamp • One year warranty (except bulb)

LED Powered ProVue Magnifying Lamp **Features:** • 5" Crystal Clear, 3 diopter (1.75x) glass lens to provide distortion free viewing • 33" spring balanced arm with concealed springs and tension adjustment knobs that stays set in any position • Lightweight engineered plastic housing • Lamp operates at 115 VAC • Table clamp included for mounting

Description	Digi-Key Part No.	Price Each	Aven Part No.
ProVue Deluxe	243-1043-ND	174.30	26501-DSG
LED Powered ProVue Magnifying Lamp	243-1064-ND	166.00	26501-LED

Mighty Mag Illuminated Magnifier

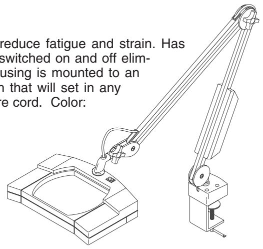

Crystal-clear lens for distortion-free viewing with both eyes to reduce fatigue and strain. Has twin side-mounted fluorescent tubes, 9 watts each that can be switched on and off eliminating glare and shadows. Mar-resistant engineered plastic housing is mounted to an internal spring-balanced maintenance-free arm with a 35" reach that will set in any position. Comes complete with mounting clamp and 5-foot, 2-wire cord. Color:
26505-SIV: Ivory; 26505-ESD: Black
Five year warranty (except bulbs).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Extra Large 5.2" x 7" Rectangular, 3 Diopter	243-1027-ND	132.80	26505-SIV
Extra Large 6" x 7" Rectangular, 3 Diopter	243-1063-ND	142.76	26505-ESD

Maxi Mag Illuminated Magnifier

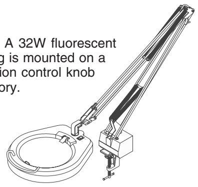

Crystal-clear lens is mounted in mar-resistant engineered plastic housing. A 32W fluorescent bulb provides shadow-free light around the object being magnified. Housing is mounted on a 45" spring-balanced arm that stays set in any position and features a tension control knob at the arm. Complete with mounting clamp and 5-foot, 2-wire cord. Color: Ivory.
One year warranty (except bulb).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Large 7" Diameter, 3 Diopter	243-1026-ND	124.50	26503-SIV

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Aven Part No.
22 Watt Replacement Bulb	243-1039-ND	13.28	26501-B22
32 Watt Replacement Bulb	243-1040-ND	13.94	26503-B32
9 Watt Replacement Bulb	243-1041-ND	8.96	26505-B09

Digital Mighty Scope

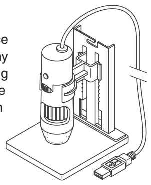

This amazing, easy to use, 6-LED hand-held digital microscope with a USB interface provides: • High resolution magnification at your fingertips • Detailed examination of any area you choose • The LED's can be turned on or off, brightness can be adjusted using control wheel on body, and an adjustable magnification from 10X ~ 200X, all in one compact lens • Microtouch Shutter trigger allows for convenient image capture when in hand-held mode or mounted on a stand • Just plug into a PC and it is ready to go • Ideal for a wide variety of practical applications in the classroom, workplace and even the home • Comes with software for easy capture of images or videos and a measurement tool is also included

Description	Digi-Key Part No.	Price Each	Aven Part No.
Digital Mighty Scope	243-1065-ND	198.20	26700-200
Analog Mighty Scope	243-1103-ND	198.20	26700-202
500X Mighty Scope	243-1104-ND	248.00	26700-204
UV Mighty Scope	243-1105-ND	248.00	26700-205
Mighty Scope Boom Stand	243-1106-ND	159.36	26700-210

Magnifiers

Double Clamp with Stand and Magnifier: • Allows for close observation of work during soldering operations • Adjustable 2.5" diameter magnifying glass **Magnifier with Tweezer Tip, 3x:** • Excellent for working on small parts that require magnification • Magnifying glass mounted onto a stainless steel, anti-acid, anti- magnetic tweezers **Inspection Eye Loupe:** • Optical quality glass lens • Rests comfortably in the eye socket • Lightweight, yet sturdy • Plastic mount, 1" lens **10x Stand Magnifier:** • Clear acrylic base permits ambient light to illuminate subject for clear bright viewing • Fixed focus 10x magnifier, features a 1" diameter lens

Fig. 1

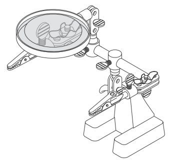

Fig. 2

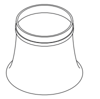

Fig.	Description	Zoom/ Magnification	Color	Diameter Nominal (Inches)	Digi-Key Part No.	Price Each	Aven Part No.
1	Double Clamp with Stand and Magnifier	2x	—	2.5	243-1018-ND	8.63	26000
2	Inspection Eye Loupe, Working Distance: 1"	10x	Black	1	243-1021-ND	1.91	26034
	10x Stand Magnifier	10x	Clear	1	243-1024-ND	4.73	26051

Lamps and Accessories

Wave + Plus Series Magnifiers

3.5-DIOPTER LENS:

Independently switched improved light output uses two 13W compact fluorescent lamps.

• Magnification: ¾x • Focal length: 13” (33.02cm) • Viewing area: 6¾” (17.15cm)

• ABS molded housing • UL listed (13W PL Compact Bulb)

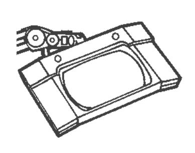

Arm Inch (cm)	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
45 (114.30)	Clamp Bracket	L845LG-ND	350.00	17845LG
30 (76.20)	Weighted Base	L847LG-ND	420.00	17847LG
30 (76.20)	Clamp Bracket	L842LG-ND	514.00	17842LG
30 (76.20)	Clamp Bracket	L902BK-ND	540.00	17902BK

KFM Series Magnifiers

The 5” (12.7cm) diameter lenses are mounted in a die-cast aluminum housing. An internal spring arm offers perfect balance and full adjustability. Comes with a 22W T-9 energy-efficient fluorescent bulb.

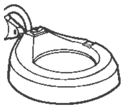

Lens Type	“K” Arm Inch (cm)	Color	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
5D	45 (114.30)	Black	Clamp	L230B-ND	255.00	17115BK
5D	45 (114.30)	Light Gray	Clamp	L230LG-ND	255.00	17115LG
3D	30 (76.20)	Light Gray	Weighted	L235LG-ND	305.00	17253LG

Ledu Task Master Series

IM12D Series:

Clamp-on 22W fluorescent lamp, 3-conductor cord set. Arm length Inch (mm): 42 (106.68)

Color: White

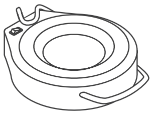

Lens Type	Mount	Luxo Series	Digi-Key Part No.	Price Each	Luxo Part No.
3D	Clamp	IM12D	16345WT-ND	137.00	16345WT
5D	Clamp	IM12D	16346WT-ND	147.00	16346WT

Additional Lenses

Diameter Inches	Description	Digi-Key Part No.	Price Each	Luxo Part No.
3 1/8"	8 Diopter	L50202-ND	55.00	50202

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Luxo Part No.
22 Watt T-9 Bulb for KFM/LC/FM Series	L540-ND	14.00	31640
15 Watt T-8 Bulb for FL Series	L541-ND	12.00	31641
13 Watt Fluorescent Bulb	L5205-ND	15.00	36205
1.5" 10 Diopter Lens	L50206-ND	95.00	50206

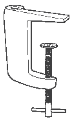

Clamp Bracket
For edge mounting on horizontal surfaces.
L501BK-ND Black
L501LG-ND Light Gray
$14.00

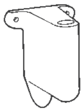

Wall Bracket
For permanent mounting on vertical surfaces.
L503BK-ND Black
L503LG-ND Light Gray
$14.00

Power Screwdriver

Accurate, High Speed, Powerful!

FEATURES: • “Auto Shut-Off Clutch” extends battery and clutch life by immediately stopping rotation once torque setting is reached • 22-stage clutch offers you more precise torque setting • Clutch torque accuracy is ±5% • Maximum 600 rpm for high speed screw driving • Maximum 39 in-lbs torque (in low gear) even with compact size • 1/4” hex quick connect chuck • 15-minute charging system • Easily converts from straight to pistol form

TECHNICAL DATA: • Motor Voltage: 3.6VDC • Rotating Speed: Low: 200 rpm; High: 600 rpm • Max. Torque: Low: 39 in-lbs; High: 13 in-lbs • Clutch Torque/Auto Shut-Off Clutch: 21 stage/2.6 to 26 in-lbs • Size in Straight Position: 11-21/32” x 1-17/32” • Weight (includes battery): 1.15 lbs. • Battery Capacity: 1.2Ah • Charging Time: 15 minutes • Working Capacity: Screw (Ø5/32 x 3/8): 600 screws

INCLUDES: Battery Pack, Battery Charger, #1 Phillips Bit, #2 Phillips Bit

P10861-ND	Screwdriver (EY6225CQ)	**$163.50**
P10862-ND	Extra Battery Pack (EY9025B)	**$36.00**

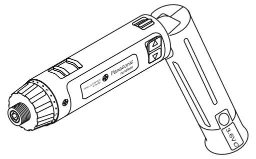

GFCI **Linegard**® Safety Product

Ground fault circuit interruption is designed to prevent a person, or equipment, from becoming a path to ground. AIRPAX® GFCI products offer four different current ratings: • **15A** units intended for all commercial applications, indoors and out • **30A** units are heavy industrial types for generator applications, outdoor equipment and production and agricultural equipment

Fig. 1 — 15A

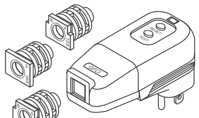

Plug Only Kit

Fig. 2 — 15A

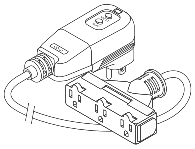

(Tri-Tap Shown)

Fig. 3 — 15A Rough Service

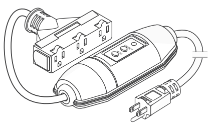

(Tri-Tap Shown)

Fig. 4 — 30A Heavy Duty

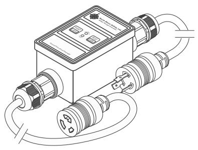

(Locking Shown)

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Sensata Part No.
			15 Amp Type		
1	Plug, No Cord, Manual Reset	723-1000-ND	51.66	48.90	PGFP-M11
2	2’ Cord Assembly, Single-Tap, Manual Reset	723-1001-ND	60.06	56.85	PGFP-M110KYST2
3	2’ Cord Assembly, Single-Tap, Manual Reset	723-1011-ND	62.58	59.23	PGFI-M040KYST2
3	2’ Cord Assembly, Tri-Tap, Automatic Reset	723-1017-ND	66.92	63.34	PGFI-A040KYTT2
			30 Amp Type		
4	Rough in Type, 120VAC, Auto Reset	723-1037-ND	272.02	257.45	PGFS-13105

AVR Series UPS Systems

Tripp Lite AVR UPS Systems provide economical automatic voltage regulation and battery backup for PC's, A/V systems and more. Up to 12 AC outlets plus tel/DSL surge protection. USB communication port works with FREE PowerAlert Software (web download) for unattended system shutdown. • $100,000 Ultimate Lifetime Insurance • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
8 Outlets, 550VA, 300W	TL371-ND	69.00	AVR550U
12 Outlets, 750VA, 450W	TL372-ND	92.00	AVR750U
12 Outlets, 900VA, 480W	TL373-ND	111.00	AVR900U

UPS Systems

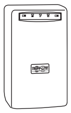

BC Standby Series — BC Personal® UPS Systems provide excellent basic battery backup for home and small office personal computers. BC Pro® units are ideal for network workstations and hubs and feature a communication port and PowerAlert Software for unattended system shutdown. BCPRO600 features built-in RJ11 jacks for modem/fax surge protection. Diagnostic LEDs alert you to potential power problems before damaging connected equipment. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL approved • 2 year product warranty

Internet Office Standby provides complete power protection for your entire computer set-up, even power hungry peripherals. Built-in RJ11 jacks prevent surges from damaging your modem/fax equipment on up to 2 lines simultaneously. Communication port that works with PowerAlert Software for unattended system shutdown is available on most models. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL Approved • 2 year product warranty

OmniSmart™ Line-Interactive features automatic voltage regulation that automatically "boosts" or "cuts" incoming voltage to keep computers working through low voltage (brownouts) and high voltage conditions without draining battery power. Communication port and PowerAlert Software provide unattended system shutdown and network power management. Select models feature built-in RJ11 jacks for modem/fax surge protection. $50,000 Ultimate Lifetime Insurance covers connected equipment. • UL/cUL Approved • 2 year product warranty

VS Series Line-Interactive UPS Systems provide basic line-interactive operation at cost effective pricing. • Use the VS series to protect and support PCs, workstations and servers. • All VS UPS Systems feature automatic voltage regulation (AVR), which correct brownouts without draining battery power. • During blackouts, VS models provide reliable battery backup support. • All VS models include built-in surge suppression and line noise filtering as well as Ultimate Lifetime Insurance (which covers connected equipment against surge damage for life). • A USB port and FREE PowerAlert Software (web download) provide automatic unattended system shutdown. • UL/cUL approved • 2 year product warranty

OmniSmart Digital UPS System offers voltage regulation, surge suppression and long-lasting battery support for personal computers, home entertainment systems and media centers. • LCD display indicates input voltage, battery capacity and a variety of operation conditions. • 8 outlets (4 UPS/surge, 4 surge only) • USB port with HID protocol support, cabling and PowerAlert monitoring software (Web download) • Corrects brownouts as low as 89V • $200,000 Ultimate Lifetime Insurance (USA, Puerto Rico and Canada only) • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
BC Personal Standby			
3 Outlets, 300VA, 175W	TL196-ND◆	77.05	BCPERS300
3 Outlets, 450VA, 280W	TL197-ND	102.88	BCPERS450
BC PRO Standby			
6 Outlets, 600VA, 345W	TL198-ND	139.00	BCPRO600
6 Outlets, 1050VA, 705W	TL128-ND	372.00	BCPRO1050
Internet Office Standby			
6 Outlets, 700VA, 425W	TL202-ND	142.64	INTERNETOFFICE700
Omnismart Line-Interactive			
6 Outlets, 500VA, 300W	TL175-ND	178.51	OMNISMART500
6 Outlets, 700VA, 450W	TL174-ND	256.36	OMNISMART700
VS Series Line-Interactive			
7 Outlets, 800VA, 475W, RJ-11	TL353-ND◆	140.00	OMNIVS800
8 Outlets, 1000VA, 500W, RJ-11	TL306-ND	159.00	OMNIVS1000
8 Outlets, 1500VA, 940W, RJ-45	TL307-ND	253.00	OMNIVS1500XL
9 Outlets, 2200VA 1600W	TL357-ND◆	810.00	SMART2200VS
OmniSmart Digital UPS			
8 Outlets, 900VA, 475W	TL359-ND	147.00	OMNI900LCD

◆ ***RoHS Compliant***

KVM Switches

KVM Switches control multiple computers with 1 keyboard, monitor and mouse console. Simple plug-and-play setup. Offers full compatibility with all major operating systems and support for most keyboards and mice. **Features:** • Adapters allow you to control Mac or SUN computers through any Tripp Lite PS/2 KVM Switch • Simple to use switches and adapters require no software or system configurations

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Port Desktop PS/2 with Two Cables	TL343-ND	79.99	B022-002-KT-R
4 Port Desktop PS/2 with Cable	TL345-ND	99.99	B022-004-R
Cable for PS/2 KVM Switch, 6'	TL346-ND	29.99	P774-006

Line Conditioners

Line conditioners let you work through brownouts for unlimited time periods without using emergency power such as UPS systems. Line conditioners automatically adjust under- and over-voltages to provide safe computer-grade AC power meeting ANSI C84.1 specifications. Full surge protection and noise filtering to eliminate erratic voltages coming into your equipment. Lifetime surge protection warranty (lightning strikes) and a full 2 year product warranty on all line conditioners.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
4 Outlets, 1200W	TL013-ND	172.00	LC1200
6 Outlets, 600W	TL283-ND	135.00	LS606M
6 Outlets, 1800W	TL014-ND	255.00	LC1800
6 Outlets, 2400W	TL044-ND	385.00	LC2400
14 Outlets, 2400W, Rackmount	TL028-ND	499.00	LCR2400

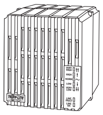

True On-Line UPS Systems with Zero Transfer Time

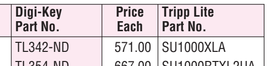

Tripp Lite gives you the benefits of zero transfer time rackmount UPS protection at an affordable price. These units provide full brownout and blackout protection and a fully regulated output, as each unit continuously conditions all power to your equipment. Full spike and surge protection as well as noise filtering provided by Tripp Lite's double conversion on-line power. $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 1000VA, 800W	TL342-ND	571.00	SU1000XLA
6 Outlets, 1000VA, 800W	TL354-ND	667.00	SU1000RTXL2UA
6 Outlets, 1500VA, 1200W	TL355-ND◆	863.00	SU1500RTXL2UA
7 Outlets, 2200VA, 1600W	TL356-ND◆	1265.00	SU2200RTXL2UA

◆ ***RoHS Compliant***

SmartPro® Intelligent UPS Systems

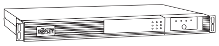

SmartPro UPS Systems: provide intelligent, line-interactive battery backup for networks and servers. SmartPro systems allow you to work through short blackouts or safely shut down during longer ones. Communication port(s) work with PowerAlert Software to provide automatic unattended shutdown. Tripp Lite's PowerAlert Software is the only UPS software capable of managing every type and brand of UPS on your network, from every manufacturer. Up to $250,000 Ultimate Lifetime Insurance (USA and Canada only). No warranty cards required for coverage. **SmartPro Digital UPS:** • LCD display indicates input voltage, battery capacity and a variety of operating conditions • 8 AC outlets (4 UPS, 4 surge only) • USB port with HID protocol support and complete cabling • $250,000 Ultimate Lifetime Insurance (USA and Canada only) • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
SmartPro Rackmount UPS Systems			
6 Outlets, 500VA, 300W	TL309-ND	189.00	SMART500RT1U
6 Outlets, 750VA, 450W	TL289-ND	434.00	SMART750RM1U
6 Outlets, 1000VA, 640W	TL243-ND	567.00	SMART1000RM1U
9 Outlets, 3000VA, 2250W	TL239-ND	1239.00	SMART3000RM2U
14 Outlets, 5000VA, 4000W	TL317-ND	3509.01	SMART5000RT3U
SmartPro Net UPS Systems			
6 Outlets, 1500VA, 980W	TL290-ND◆	444.00	SMART1500
6 Outlets, 2200VA, 1700W	TL279-ND	892.00	SMART2200NET
8 Outlets, 3000VA, 2400W	TL280-ND	1190.00	SMART3000NET
SmartPro Digital UPS Systems			
8 Outlets, 1000VA, 500W	TL360-ND	167.24	SMART1000LCD
8 Outlets, 1200VA, 700W	TL361-ND	242.00	SMART1200LCD
8 Outlets, 1500VA, 900W	TL362-ND	250.96	SMART1500LCD

◆ ***RoHS Compliant***

Medical-Grade UPS System, Isolation Transformers and Power Strip

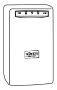

Protect health care equipment and computers. Models include built-in isolation transformers to reduce cumulative leakage of all connected equipment to less than 300µA. UL2601-1 listed for use in patient care areas. UPS systems offer automatic voltage regulation and up to 2 communication ports. Isolation transformers reduce line and common mode noise. All models include hospital-grade plug and receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
UPS System			
4 Outlets, 1 Comm. Port, 2 Line Modem/Fax, 330VA	TL253-ND	442.00	OMNISMART350HG
Isolation Transformers			
2 Outlets, 6' Cord, 250W	TL257-ND	203.00	IS250HG
4 Outlets, 6' Cord, 500W	TL256-ND	317.89	IS500HG
4 Outlets, 6' Cord, 1000W	TL255-ND	482.04	IS1000HG
Power Strip — RoHS Compliant			
4 Outlets, 15' Cord, 15A	TL374-ND	124.00	PS-415-HGULTRA

120V Power Strips

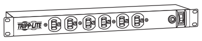

Tripp Lite power strips are a convenient solution for applications in which multiple AC outlets are needed without surge or line noise protection. Power strips are ideal for mounting inside rack enclosures or on walls, workbenches and more. Sturdy metal housing stands up to demanding network, lab or factory environments.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Horizontal / Vertical Power Strips			
8 Outlets, 24" Power Outlet Strip, 120V	TL206-ND	79.00	PS2408
12 Outlets, 36" Power Outlet Strip, 120V	TL207-ND	85.00	PS3612
16 Outlets, 48" Power Outlet Strip, 120V	TL208-ND	90.00	PS4816
20 Outlets, 60" Power Outlet Strip, 120V	TL318-ND	99.00	PS6020
24 Outlets, 72" Power Outlet Strip, Surge, Metal Case, On/Off Light, Gray	TL319-ND	99.00	SS7619-15
Rackmount Power Strips			
12 Outlets, 19" Rackmount Outlet Strip, 120V	TL213-ND	69.00	RS-1215
12 Outlets, 19" Rackmount Outlet Strip, 20A, 120V	TL265-ND	86.42	RS-1215-20
12 Outlets, 19" Rackmount Outlet Strip, 15A, 120V, R/A Receptacles	TL266-ND	69.00	RS-1215-RA
14 Outlets, 19" Rackmount Surge Strip, 450 Joules, 120V	TL262-ND	88.87	DRS-1215
16 Outlets, 48" Surge Power Strip, 450 Joules, 120V	TL274-ND	85.00	SS7415-15
PDU Series Rackmount — Power Distribution Strips			
13 Outlets, 19" Rack Strip, No Power Switch, 20A, 120V, Locking Plug	TL297-ND	207.00	PDU1220T
13 Outlets, Digital Current Display, 15ft. Cord, 15A	TL365-ND◆	177.00	PDUMH15
14 IEC-320 Outlets, 19" Rack Strip, No Power Switch, 16A, 100-240V	TL270-ND	277.00	PDU12IEC
20 Outlets, Digital Current Display, 15ft. Cord, 20A	TL367-ND◆	245.00	PDUMV20

◆ ***RoHS Compliant***

ISOBAR® Rackmount Surge Suppressors

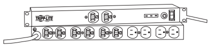

The same premium features as the Isobar line in convenient, space-saving rackmount configurations. Exclusive isolated filter banks eliminate interference between connected equipment. "Cascade Circuitry" to increase protection for more sensitive devices. Complete surge, spike and line noise protection. $25,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
12 Outlets, 15' Cord, 1280 Joules	TL027-ND	215.25	IBAR12
12 Outlets, 15' Cord, 1200 Joules	TL227-ND	195.00	IBAR12ULTRA
12 Outlets, 15' Cord, 1200 Joules, 20A	TL282-ND	230.73	IBAR12/20ULTRA

ISOBAR® Premium Surge Suppressors

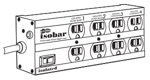

ISOBAR is the most electronically advanced surge suppressor available today. Exclusive isolated filter banks eliminate interference between connected equipment. **Only ISOBAR provides:** • Superior RFI/EMI noise suppression • "Cascade Circuitry" to increase protection for more sensitive devices • Surge Suppression up to 13,000 amp spikes • Rackmount model (ISOBAR8RM) for industrial and sound applications • Up to 24 active filtering components • Meets IEEE 587 A and B Specifications • Less than 5 nanosecond transient response time. Up to $250,000 Ultimate Lifetime Insurance covers connected equipment against surge damage, including direct lightning strikes...for life.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Outlets, 6' (1.83m) Cord	TL003-ND	59.05	IBAR2-6
6 Outlets, 6' (1.83m) Cord, Diag. LEDs, Modem/Fax, 2 Line Coax.	TL205-ND	119.95	ISOBAR6DBS
4 Outlets, 6' (1.83m) Cord, with Diag. LED	TL076-ND	89.95	ISOBAR4ULTRA
6 Outlets, 6' (1.83m) Cord, with Diag. LED	TL077-ND	104.95	ISOBAR6ULTRA
8 Outlets, 12' (3.66m) Cord, with Diag. LED	TL078-ND	116.95	ISOBAR8ULTRA
8 Outlets, 12' (3.66m) Cord, with Remote Power Switch	TL050-ND	146.02	ISOBAR8RM
4 Outlets, 6' (1.83m) Cord, Modem/Fax	TL009-ND	99.95	ISOTEL

Power Strips and Surge Suppressors with Hospital-Grade Receptacles and Plug

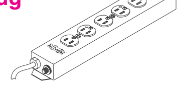

Features: • Ideal choice where durability and reliability are required • Rugged all-metal housing • Mounting keyhole slots/flanges

Note: Not for use where NEC requires hospital-grade receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Power Strips			
6 Outlets, 6' Cord, 14" Power Strip, 15A	TL312-ND	81.00	PS-606-HG
6 Outlets, 15' Cord, 12" Power Strip, 15A, Plastic	TL260-ND	86.00	PS-615-HG
Surge Suppressors			
6 Outlets, 450 Joules, 15' Cord, 15A, Metal Housing	TL258-ND	92.00	SPS-615-HG
6 Outlets, 600 Joules, 15' Cord, 12A, Metal Housing	TL281-ND	128.00	ISOBAR6ULTRAHG

Direct Plug-In/Traveler Surge Suppressors

These direct plug-in models offer a compact surge protection solution for all computers and home/office electronics. Direct plug-in Isobar models offer premium surge protection. The Traveler™ model offers ideal protection for notebook computers and fits easily into any briefcase. Select models offer diagnostic LEDs, transformer friendly designs and up to 600 joules of surge absorption. Up to $100,000 Ultimate Lifetime Insurance.

Fig. 1

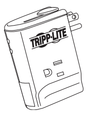

Fig. 2 ***NEW!***

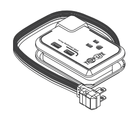

Fig.	Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
1	Traveler™, Direct Plug-In, 2 Outlets, RJ11, 2 LEDs	TL008-ND	25.95	TRAVELER
2	3 AC Power Outlets, 540 Joules, 2-USB	TL375-ND◆ ***NEW!***	31.99	TRAVELER3USB
—	Isobar, Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL276-ND	59.95	ULTRABLOK428
	Isobar, Direct Plug-in, 2 Outlets, 600 Joules	TL002-ND	48.51	ISOBLOK2-0
	Isobar, Direct Plug-in, 2 Outlets, 600 Joules, with 1 RJ11 Jack	TL080-ND	69.95	ULTRAFAX

◆ ***RoHS Compliant***

Data Line Surge Suppressors

Data networks are increasingly susceptible to problems from dataline transients as transmission rates continue to rise. Tripp Lite's dataline surge suppressors safely divert damaging surges before they reach your critical network equipment. Protects I/O and Serial ports, modem fax cards, network interface cards and motherboards.

Lines Protected	Interface Type	Digi-Key Part No.	Price Each	Tripp Lite Part No.
1-8	RJ45	TL320-ND	28.99	DNET1
4, 5 and 3, 6	RJ11/RJ45	TL154-ND	32.50	DTEL2
1-9 and chassis	DB9 Serial	TL151-ND◆	24.50	DB9

◆ ***RoHS Compliant***

Modem/Fax and Multimedia Surge Suppressors

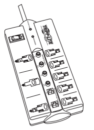

Protect all computers and home/office electronics, including modem/fax and multimedia equipment against damaging surges, spikes and line noise. Select models offer space saving right angle plugs, transformer friendly designs up to 3,690 joules of surge absorption. Modem/fax, coaxial and or Ethernet surge protection. Up to $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 870 Joules, 4' Cord, 1 In/1 Out RJ11	TL230-ND	15.49	TLP604TEL
7 Outlets, 1680 Joules, 6' Cord, 2 In/2 Out Coax, 1 In/1 Out RJ11	TL348-ND	42.99	HT706TSAT
7 Outlets, 1080 Joules, 6' Cord, 1 In/1 Out Coax	TL347-ND◆	34.99	HT706TV
7 Outlets, 2470 Joules, 7' Cord, 1 In/1 Out RJ11	TL105-ND	35.99	SUPER7TEL
7 Outlets, 1270 Joules, 7' Cord, 1 In/1 Out RJ11	TL299-ND	27.99	TLP707TEL
8 Outlets, 2160 Joules, 8' Cord, RJ11, ECO-SURGE™	TLP808NETG-ND◆ ***NEW!***	89.99	TLP808NETG
8 Outlets, 2820 Joules, 8' Cord, 1 In/2 Out RJ11	TL232-ND	44.99	TLP808TEL
8 Outlets, 3690 Joules, 10' Cord, 2 RJ11/Coax./Ethernet	TL234-ND	69.99	TLP810NET
10 Outlets, 2395 Joules, 8' Cord, 1 In/2 Out RJ11	TL300-ND	52.13	TLP1008TEL
12 Outlets, 3600 Joules, 10' Cord, 1 In/2 Out RJ11, ECO-SURGE™	TLP1210SATG-ND◆ ***NEW!***	129.99	TLP1210SATG

◆ ***RoHS Compliant***

Precision — Regulated DC Power Supplies

Features:
- Current limiting electronic foldback for automatic overcurrent protection in case of overload; time controlled on 7 Amp and larger models • Regulated output voltage maintains up to 95% of no load value • High quality filtering provides for very low ripple/low noise operation • Large heat sinks and vented cabinet provide cool operation for continuous use and long life of the unit

Description	Application	Digi-Key Part No.	Price Each	Tripp Lite Part No.
13.8VDC, 3A	CBs, Car Tape Players	TL185-ND	40.53	PR3
13.8VDC, 4.5A	CBs, Car Tape Players	TL195-ND	49.00	PR4.5
13.8VDC, 7A	Single Side-Band CBs, Car Stereos	TL186-ND	64.23	PR7
13.8VDC, 10A	30W Transmitters, 2-Way Radios	TL187-ND	96.79	PR10
13.8VDC, 12A	40W Transmitters, 2-Way Radios	TL188-ND	97.00	PR12
13.8VDC, 20A	60W Transmitters, Commercial Radios	TL272-ND	152.00	PR20
13.8VDC, 25A	75-100W Ham, Commercial Radios	TL190-ND	210.82	PR25
13.8VDC, 30A	125W Ham, Commercial Radios	TL273-ND	217.71	PR30
13.8VDC, 40A	150-200W Ham, Commercial Radios	TL191-ND	271.93	PR40
13.8VDC, 50A	225W Ham, Commercial Radios	TL192-ND	292.00	PR50
13.8VDC, 60A	250-300W Ham, Commercial Radios	TL241-ND	343.00	PR60

PowerVerter® DC-to-AC Inverters

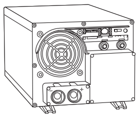

Ultra-Compact Inverters are housed in a sturdy portable metal case with 12V cigarette lighter plug built-in. Ideal for laptops, test equipment and TV-VCR units.

Peak Power models are able to handle up to twice their normal wattage for short periods of time delivering high start-up current, frequency controlled AC, making them ideal for motors, refrigerators, power tools and microwaves

Description (H x W x D)	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Ultra-Compact Inverters			
150W, 1 Outlet with Cigarette Plug, 1.75" x 3.75" x 5.75"	TL295-ND	45.00	PV150
375W, 2 Outlets with Cigarette Plug, 2" x 4.25" x 7"	TL296-ND	72.00	PV375
1000W, 4 Outlets, Permanent-Mount, 3.75" x 6" x 12.5"	TL225-ND	308.00	PV1000HF
1800W, 4 Outlets, Permanent-Mount, 4" x 6" x 15"	TL226-ND	430.00	PV1800HF
Peak Power Inverters (Frequency Controlled)			
1250W, 2 Outlets, 7" x 8.75" x 9"	TL364-ND	402.00	PV1250FC
2000W, 2 Outlets, 7.3" x 8.5" x 16.5"	TL148-ND	650.00	PV2000FC

Protect-It!™ Economy Surge Suppressors

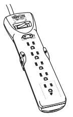

Protect all computers and home office electronics against damaging surges, spikes and line noise. Select Protect It!™ Surge Suppressors offer space saving right angle plugs, transformer friendly designs and up to 2,350 joules of surge absorption. Up to $75,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
4 Outlets, 390 Joules, 4' Cord	TL313-ND	11.49	TLP404
6 Outlets, 250 Joules, 2' Cord	TL229-ND	9.99	TLP602
6 Outlets, 720 Joules, 4' Cord	TL264-ND	12.99	TLP604
7 Outlets, 750 Joules, 6' Cord	TL083-ND	20.99	STRIKER
7 Outlets, 1000 Joules, 12' Cord	TL263-ND	26.99	TLP712
7 Outlets, 2350 Joules, 7' Cord	TL085-ND	28.47	SUPER7
8 Outlets, 1900 Joules, 8' Cord	TL275-ND	35.99	TLP808
Spike Stik, 6 Outlets, 360 Joules, 6' Cord	TL026-ND	29.99	STIK
Super 8, 8 Outlets, 1260 Joules, 8' Cord	TL011-ND	49.20	SK6-6

NEW! Protect-It!™ Safety Series Surge Suppressors and Power-It!™ Safety Series Power Strips

RoHS COMPLIANT

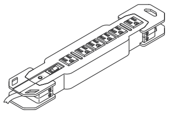

Protect-It! Safety Series Surge Suppressors provide the highest UL-verified joule ratings of any surge suppressors in their class. Joule ratings measure a surge suppressor's ability to handle surges; more joules mean more protection. In addition, all models filter disruptive EMI/RFI line noise to improve the performance of connected equipment. Up to $100,000 Ultimate Lifetime Insurance guarantees equipment will stay safe from surge damage, including direct lightning strikes, for life. All-metal housing and OSHA yellow color. All models are backed by a lifetime limited warranty.

Power It! Safety Series Power Strips provide a reliable source of AC power for a variety of tools and appliances: drills, saws, sanders, compressors, chargers, pumps and more. Premium features and rugged construction make these models ideal for every workshop, garage, laboratory, industrial facility and construction site. High-visibility OHSA yellow color alerts user and others that power cords and tools are in use. All-metal housing.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Surge Suppressors			
6 Outlets, 6' Cord, 420 Joules, Lighted On/Off Switch	TLM626SA-ND	34.99	TLM626SA
6 Outlets, 9' Cord, 1200 Joules, Cord Wrap, Lighted On/Off Switch	TLM609SA-ND	54.99	TLM609SA
8 Outlets, 12' Cord, 1200 Joules, Cord Wrap, Lighted On/Off Switch	TLM812SA-ND	64.99	TLM812SA
6 Outlets, 15' Cord, 2400 Joules, Cord Wrap, Lighted On/Off Switch	TLM615SA-ND	64.99	TLM615SA
8 Outlets, 25' Cord, 3900 Joules, Cord Wrap, Lighted On/Off Switch	TLM825SA-ND	89.99	TLM825SA
Power Strips			
6 Outlets, 6' Cord, Lighted On/Off Switch, 15A Output	TLM626NS-ND	24.99	TLM626NS
6 Outlets, 9' Cord, Cord Wrap, Lighted On/Off Switch, 15A Output	TLM609GF-ND	79.99	TLM609GF
6 Outlets, 9' Cord, Cord Wrap, Lighted On/Off Switch, 12A Output	TLM609NS-ND	42.99	TLM609NS
8 Outlets, 12' Cord, Cord Wrap, Lighted On/Off Switch, 15A Output	TLM812GF-ND	89.99	TLM812GF
8 Outlets, 15' Cord, Cord Wrap, Lighted On/Off Switch, 15A Output	TLM815NS-ND	59.99	TLM815NS
8 Outlets, 25' Cord, Cord Wrap, Lighted On/Off Switch, 15A Output	TLM825GF-ND	99.99	TLM825GF

WABER®-TRIPP-LITE Power Strips

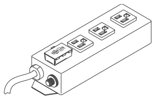

Features: • Economical outlet strips wherever you need them • Variety of models for home office/small office computers and other electronic equipment • Seamless steel case with baked-on finish on select models

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
3 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL322-ND	22.00	3SP
4 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL337-ND	24.00	UL603CB-6
4 Outlets, 6' Cord, Metal Case, On/Off Light, Beige with Tabs	TL323-ND	18.85	4SPDX
5 Outlets, 6' Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL321-ND	20.00	602
5 Outlets, 15' Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL324-ND	29.00	602-15
6 Outlets, 4' Cord, Plastic Case, On/Off Switch, Gray with Tabs	TL333-ND	10.00	PS6
6 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL326-ND	30.00	6SP
6 Outlets, 6' Cord, Metal Case, On/Off Switch, Beige with Tabs	TL325-ND◆	17.31	6NX6
6 Outlets, 6' Cord, Metal Case, On/Off Light, Beige with Tabs	TL327-ND	22.69	6SPDX
6 Outlets, 15' Cord, Metal Case, On/Off Light, Beige with Tabs	TL328-ND	29.23	6SPDX-15
6 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL335-ND	37.00	UL24CB-15
6 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL336-ND	38.00	UL24RA-15
6 (20A) Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL338-ND	87.00	UL620-15
9 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL334-ND	41.00	UL17CB-15
10 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL339-ND	59.00	UL800CB-15

◆ ***RoHS Compliant***

Surge Suppressors

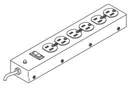

Features: • Economical surge suppressors protect against damaging surges, spikes and line noise • Variety of models for home office/small office computers and other electronic equipment • Seamless steel case with baked-on finish

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 450 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL331-ND	23.00	PM6NS
6 Outlets, 450 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL332-ND	21.00	PM6SN1
6 Outlets, 600 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL329-ND	45.00	DG115-SI

Digi-Key® Capacitor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic Specialty Polymer Aluminum Electrolytic		
CD, CX, SL and SX Series - 15 each of 9 popular values (135 total pieces)	SP4-KIT-ND◆	34.99
Panasonic Miniature Aluminum Electrolytic		
KG Series - 10 each of 18 popular values (180 total pieces)	P900-KIT-ND◆	34.95
Panasonic Miniature Radial Lead Electrolytic		
M-Series - 10 each of 17 popular values (170 total pieces)	M-KIT-ND◆	69.95
NHG-Series - 10 each of 18 popular value (180 total pieces)	NHG-KIT-ND◆	69.95
Panasonic Miniature Radial Lead Electrolytic		
KA-Series - 10 each of 16 popular values (160 total pieces)	P835-KIT-ND◆	29.95
Panasonic Stacked Metal Film		
V-Series, 50 Volt - 10 each of 18 popular values (180 total pieces)	P4542-KIT-ND	49.95
V-Series, 100 Volt - 10 each of 18 popular values (180 total pieces)	P4700-KIT-ND◆	49.95
Panasonic 1206 Chip Ceramic		
NPO Series - 10 each of 14 popular values (140 total pieces)	PCC17-KIT-ND	89.95

Digi-Key® Fuse Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Littelfuse 467 Series 0603 Lead Free Fast Acting Fuses		
10 each of 14 fuses (140 total pieces)	467-KIT-ND◆	116.26
Littelfuse 466 Series 1206 Lead Free Fast Acting Fuses		
10 each 15 fuses (150 total pieces)	466-KIT-ND◆	113.63
Littelfuse 154 Series Nano2 SMT Fast/Slo-Blo® Fuses		
5 each 18 fuses (90 total pieces)	154-KIT-ND◆	148.84
Littelfuse 251L/473L Series PICO II Fast/Slo-Blo® Axial Fuses		
5 each 18 fuses (90 total pieces) – Kit does not come with a kit box	251L-473L-KIT-ND◆	105.08
Littelfuse 216P Series Fast Acting Hi-Breaking 5x20mm Fuses		
5 each 18 fuses (90 total pieces)	216P-KIT-ND◆	119.95
Littelfuse 217P Series Fuse Fast Acting		
5 each of 18 fuses (90 total pieces)	217P-KIT-ND◆	69.80
Littelfuse 218P Series Fuse Slo-Blo®		
5 each of 18 fuses (90 total pieces)	218P-KIT-ND◆	131.87
Littelfuse 257/297 Series Mini and ATO Blade Fuses		
5 each 18 fuses (90 total pieces)	257-297-KIT-ND◆	57.56
Littelfuse 312P Series Fast Acting 3AG Fuses		
5 each 28 fuses and 10 each 2 fuse clips (160 total pieces)	312P-KIT-ND◆	174.22
Littelfuse 313P Series Slo-Blo® 3AG Cartridge		
5 each 34 fuses and 10 each 2 fuse clips (190 total pieces)	313P-KIT-ND◆	106.36
Wickmann Fuses		
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0113-KIT-ND◆	74.86
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0116-KIT-ND◆	85.75
10 each of 17 popular fuses and 20 of TE5 Fuseholder (190 total pieces)	WK0117-KIT-ND◆	86.29

Digi-Key® Inductor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Susumu 0402 ±0.2NH Thin Film Inductor Assortments		
40 each of 28 values (1120 pieces)	SSMH1005-KIT-ND◆	81.82

Digi-Key® Potentiometer Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic 6mm Carbon Trimmer, Laydown and Standup Version		
10 each of 14 popular values (140 pieces)	DXA-KIT-ND◆	29.95
Panasonic SMT Trimmer		
P1D Series - 10 each of 13 values (130 total pieces)	P1D-KIT-ND	43.95
P1E Series - 10 each of 13 values (130 total pieces)	P1E-KIT-ND	43.95

Digi-Key® Resistor Kits

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Panasonic 0402 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10Ω ~ 97.6Ω (4,800 pieces)	RSM1L-ND	189.00
50 each of values 100Ω ~ 976Ω (4,800 pieces)	RSM2L-ND◆	189.00
50 each of values 1.00K ~ 9.76K (4,800 pieces)	RSM3L-ND	189.00
50 each of values 10.0K ~ 97.6K (4,800 pieces)	RSM4L-ND	189.00
50 each of values 100K ~ 1.00M (4,850 pieces)	RSM5L-ND	189.00
Panasonic 0402 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR7A-KIT-ND	89.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR7-KIT-ND	169.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR8A-KIT-ND	89.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR8-KIT-ND	169.00
Panasonic 0603 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10Ω ~ 97.6Ω (4,800 pieces)	RSM1H-ND	129.00
50 each of values 100Ω ~ 976Ω (4,800 pieces)	RSM2H-ND	129.00
50 each of values 1.00K ~ 9.76K (4,800 pieces)	RSM3H-ND	129.00
50 each of values 10.0K ~ 97.6K (4,800 pieces)	RSM4H-ND	129.00
50 each of values 100K ~ 1.00M (4,850 pieces)	RSM5H-ND	129.00
Panasonic 0603 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR5A-KIT-ND	85.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR5-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR6A-KIT-ND	85.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR6-KIT-ND	129.00
Panasonic 0805 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10Ω ~ 97.6Ω (4,800 pieces)	RSM1CA-ND	119.95
200 each of values 10Ω ~ 97.6Ω (19,200 pieces)	RSM1C-ND	299.00
50 each of values 100Ω ~ 976Ω (4,800 pieces)	RSM2CA-ND	119.95
200 each of values 100Ω ~ 976Ω (19,200 pieces)	RSM2C-ND	299.00
50 each of values 1.00K ~ 9.76K (4,800 pieces)	RSM3CA-ND◆	119.95
200 each of values 1.00K ~ 9.76K (19,200 pieces)	RSM3C-ND	299.00
50 each of values 10.0K ~ 97.6K (4,800 pieces)	RSM4CA-ND◆	119.95
200 each of values 10.0K ~ 97.6K (19,200 pieces)	RSM4C-ND	299.00
50 each of values 100K ~ 1.00M (4,850 pieces)	RSM5CA-ND◆	119.95
200 each of values 100K ~ 1.00M (19,400 pieces)	RSM5C-ND	299.00
Panasonic 0805 5% Chip Resistor Assortments, 1/8 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR3A-KIT-ND◆	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR3-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR4A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR4-KIT-ND	129.00
Panasonic 1206 1% Chip Resistor Assortments, 1/4 Watt		
50 each of values 10.0Ω ~ 97.6Ω (4,800 pieces)	RSM1FA-ND	129.95
200 each of values 10.0Ω ~ 97.6Ω (19,200 pieces)	RSM1F-ND	299.00
50 each of values 100Ω ~ 976Ω (4,800 pieces)	RSM2FA-ND	129.95
200 each of values 100Ω ~ 976Ω (19,200 pieces)	RSM2F-ND	299.00
50 each of values 1.00K ~ 9.76K (4,800 pieces)	RSM3FA-ND	119.95
200 each of values 1.00K ~ 9.76K (19,200 pieces)	RSM3F-ND	299.00
50 each of values 10.0K ~ 97.6K (4,800 pieces)	RSM4FA-ND	129.95
200 each of values 10.0K ~ 97.6K (19,200 pieces)	RSM4F-ND	299.00
50 each of values 100K ~ 1.00M (4,850 pieces)	RSM5FA-ND	129.95
200 each of values 100K ~ 1.00M (19,400 pieces)	RSM5F-ND	299.00
Panasonic 1206 5% Chip Resistor Assortments, 1/4 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR1A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR1-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR2A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR2-KIT-ND	129.00
Susumu 0201 .5% SMD Resistor, 1/20 Watt		
10 each of values 47Ω ~ 8.2KΩ (150 pieces)	RR0306PD-1-KIT-ND◆	9.95
Susumu 0402 .5% SMD Resistor, 1/16 Watt		
10 each of values 10Ω ~ 82Ω (190 pieces)	RR0510RD-1-KIT-ND◆	4.95
10 each of values 100Ω ~ 4.3KΩ (400 pieces)	RR0510PD-1-KIT-ND◆	9.95
10 each of values 4.7KΩ ~ 100KΩ (330 pieces)	RR0510PD-2-KIT-ND◆	7.95
Susumu 0402 1% SMD Resistor, 1/6 Watt		
10 each of values .10Ω ~ 47Ω (330 pieces)	RP1005SF-1-KIT-ND◆	59.95
Susumu 0603 .05% SMD Resistor, 1/10 Watt		
10 each of values 47Ω ~ 750Ω (300 pieces)	RG1608NW-1-KIT-ND◆	175.95
10 each of values 820Ω ~ 13KΩ (300 pieces)	RG1608NW-2-KIT-ND◆	175.95
10 each of values 15KΩ ~ 270KΩ (310 pieces)	RG1608NW-3-KIT-ND◆	175.95

◆ *RoHS Compliant* § Does not come with plastic box

(Continued)

Digi-Key® Resistor Kits (Cont.)

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Susumu 0603 .5% SMD Resistor, 1/16 Watt		
10 each of values 10Ω ~ 91Ω (440 pieces)	RR0816QD-1-KIT-ND◆	13.95
10 each of values 100Ω ~ 806Ω (500 pieces)	RR0816PD-1-KIT-ND◆	15.95
10 each of values 820Ω ~ 4.75KΩ (500 pieces)	RR0816PD-2-KIT-ND◆	15.95
10 each of values 4.87KΩ ~ 18.0KΩ (500 pieces)	RR0816PD-3-KIT-ND◆	15.95
10 each of values 18.2KΩ ~ 68.1KΩ (500 pieces)	RR0816PD-4-KIT-ND◆	15.95
10 each of values 69.8KΩ ~ 360KΩ (390 pieces)	RR0816PD-5-KIT-ND◆	12.95
Susumu 0603 1% SMD Resistor, 1/5 Watt		
10 each of values .10Ω ~ 68Ω (350 pieces)	RP1608SF-1-KIT-ND◆	49.95
Susumu 0805 .05% SMD Resistor, 1/8 Watt		
10 each of values 47Ω ~ 910Ω (320 pieces)	RG2012NW-1-KIT-ND◆	199.95
10 each of values 1.0KΩ ~ 20KΩ (320 pieces)	RG2012NW-2-KIT-ND◆	199.95
10 each of values 22KΩ ~ 470KΩ (330 pieces)	RG2012NW-3-KIT-ND◆	199.95
Susumu 0805 .5% SMD Resistor, 1/10 Watt		
10 each of values 10Ω ~ 91Ω (390 pieces)	RR1220QD-1-KIT-ND◆	12.95
10 each of values 100Ω ~ 1.6KΩ (500 pieces)	RR1220PD-1-KIT-ND◆	15.95
10 each of values 1.65KΩ ~ 5.9KΩ (500 pieces)	RR1220PD-2-KIT-ND◆	15.95
10 each of values 6.04KΩ ~ 24.3KΩ (500 pieces)	RR1220PD-3-KIT-ND◆	15.95
10 each of values 24.9KΩ ~ 110KΩ (500 pieces)	RR1220PD-4-KIT-ND◆	15.95
10 each of values 115KΩ ~ 1.0MΩ (310 pieces)	RR1220PD-5-KIT-ND◆	9.95
Susumu 0805 1% SMD Resistor, 1/4 Watt		
10 each of values .10Ω ~10.0Ω (500 pieces)	RL1220SF-1-KIT-ND◆	19.95
Susumu 0805 1% SMD Resistor, 1/3 Watt		
10 each of values 12Ω ~ 100Ω (120 pieces)	RP2012SF-1-KIT-ND◆	13.95
10 each of values .10Ω ~ 10Ω (250 pieces)	RP2012TF-1-KIT-ND◆	29.95
Susumu 0805 2% SMD Resistor, 1/4 Watt		
10 each of values .022Ω ~ 10Ω (300 pieces)	RL1220SG-1-KIT-ND◆	15.95
Yageo 5% Carbon Film, 1/6 Watt		
5 each of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. ~ 1.0MΩ (365 total pieces)	RS112-ND◆	16.96
5 each of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. ~ 910kΩ (360 total pieces)	RS212-ND◆	16.99
200 each of all 161 standard values 1.0Ω ~ 4.7MΩ (32,200 total pieces)	RSE200-ND◆	409.00
Yageo 5% Carbon Film, 1/4 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. ~ 1.0MΩ (365 total pieces)	RS125-ND◆	14.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. ~ 910kΩ (360 total pieces)	RS225-ND◆	14.95
200 ea. of all 169 standard values 1.0Ω ~ 10MΩ (33,800 total pieces)	RSQ200-ND◆	239.00
Yageo 5% Carbon Film, 1/2 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. ~ 1.0MΩ (365 total pieces)	RS150-ND◆	16.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. ~ 910kΩ (360 total pieces)	RS250-ND◆	16.95
200 ea. of all 161 standard values 1.0Ω ~ 4.7MΩ (32,200 total pieces)	RSH200-ND◆	335.00
Yageo 1% Metal Film, 1/4 Watt		
5 each of values 10Ω ~ 97.6Ω (480 total pieces)	RS1X-ND◆	29.95
5 each of values 100Ω ~ 976Ω (480 total pieces)	RS2X-ND◆	29.95
5 each of values 1.00K ~ 9.76K (480 total pieces)	RS3X-ND◆	29.95
5 each of values 10.0K ~ 97.6K (480 total pieces)	RS4X-ND◆	29.95
5 each of values 100K ~ 1.00M (480 total pieces)	RS5X-ND◆	29.95
Yageo 5% Metal Oxide, 1 Watt		
5 each of values 0.47Ω ~ 56Ω (255 total pieces)	RS101-ND◆	26.95
5 each of values 62Ω ~ 7.5K (255 total pieces)	RS201-ND◆	26.95
5 each of values 8.2K ~ 1.0M (255 total pieces)	RS301-ND◆	26.95
Yageo 5% Metal Oxide, 2 Watt		
5 each of values 0.47Ω ~ 56Ω (255 total pieces)	RS102-ND◆	29.95
5 each of values 62Ω ~ 7.5K (255 total pieces)	RS202-ND◆	29.95
5 each of values 8.2K ~ 1.0M (255 total pieces)	RS302-ND◆	29.95
Yageo 5% Wirewound Rectangular, 5 Watt		
5 each of values 0.30Ω ~ 0.91Ω (60 pieces)	RS105-ND◆	23.95
4 each of values 1.0Ω ~ 9.1Ω (96 pieces)	RS205-ND◆	32.95
4 each of values 10Ω ~ 91Ω (96 pieces)	RS305-ND◆	32.95
3 each of values 100Ω ~ 2.0K (96 pieces)	RS405-ND◆	32.95
Yageo 5% Wirewound Rectangular, 10 Watt		
2 each of all 10 watt resistor values (168 total pieces)	RS110-ND◆	72.95
Yageo America 0402 1% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.00Ω ~ 75.0Ω (850 total pieces)	PHL1-KIT-ND◆	20.95
50 each of values 100Ω ~ 910Ω (1,100 pieces)	PHL2-KIT-ND◆	25.95
50 each of values 1.00KΩ ~ 9.53KΩ (1,650 pieces)	PHL3-KIT-ND◆	35.95
50 each of values 10.0KΩ ~ 97.6KΩ (2,800 pieces)	PHL4-KIT-ND◆	59.95
50 each of values 100KΩ ~ 1.00MΩ (1,600 pieces)	PHL5-KIT-ND◆	39.95
Yageo America 0603 1% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.00Ω ~ 7.50Ω (1,100 total pieces)	PHH1-KIT-ND◆	19.95
50 each of values 10.0Ω ~ 97.6Ω (5,650 total pieces)	PHH2-KIT-ND◆	79.95
50 each of values 100Ω ~ 976Ω (5,700 total pieces)	PHH3-KIT-ND◆	79.95
50 each of values 1.00KΩ ~ 9.76KΩ (5,700 total pieces)	PHH4-KIT-ND◆	79.95
50 each of values 10.0KΩ ~ 97.6KΩ (5,650 total pieces)	PHH5-KIT-ND◆	79.95
50 each of values 100KΩ ~ 1.00MΩ (5,750 total pieces)	PHH6-KIT-ND◆	79.95
Yageo America 0805 1% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.00Ω ~ 9.76Ω (5,200 total pieces)	PHC1A-KIT-ND◆	79.95
200 each of values 1.00Ω ~ 9.76Ω (20,800 total pieces)	PHC1-KIT-ND◆	169.95
50 each of values 10.0Ω ~ 97.6Ω (5,700 total pieces)	PHC2A-KIT-ND◆	79.95
200 each of values 10.0Ω ~ 97.6Ω (22,800 total pieces)	PHC2-KIT-ND◆	169.95
50 each of values 100Ω ~ 976Ω (5,700 total pieces)	PHC3A-KIT-ND◆	79.95
200 each of values 100Ω ~ 976Ω (22,800 total pieces)	PHC3-KIT-ND◆	169.95
50 each of values 1.00KΩ ~ 9.76KΩ (5,700 total pieces)	PHC4A-KIT-ND◆	79.95
200 each of values 1.00KΩ ~ 9.76KΩ (22,800 total pieces)	PHC4-KIT-ND◆	169.95
50 each of values 10.0KΩ ~ 97.6KΩ (5,650 total pieces)	PHC5A-KIT-ND◆	79.95
200 each of values 10.0KΩ ~ 97.6KΩ (22,600 total pieces)	PHC5-KIT-ND◆	169.95
50 each of values 100KΩ ~ 1.00MΩ (5,750 total pieces)	PHC6A-KIT-ND◆	79.95
200 each of values 100KΩ ~ 1.00MΩ (23,000 total pieces)	PHC6-KIT-ND◆	169.95
Yageo America 1206 1% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.00Ω ~ 9.76Ω (5,700 total pieces)	PHF1A-KIT-ND◆	125.95
200 each of values 1.00Ω ~ 9.76Ω (22,800 total pieces)	PHF1-KIT-ND◆	239.95
50 each of values 10.0Ω ~ 97.6Ω (5,700 total pieces)	PHF2A-KIT-ND◆	125.95
200 each of values 10.0Ω ~ 97.6Ω (22,800 total pieces)	PHF2-KIT-ND◆	239.95
50 each of values 100Ω ~ 976Ω (5,700 total pieces)	PHF3A-KIT-ND◆	125.95
200 each of values 100Ω ~ 976Ω (22,800 total pieces)	PHF3-KIT-ND◆	239.95
50 each of values 1.00KΩ ~ 9.76KΩ (5,700 total pieces)	PHF4A-KIT-ND◆	125.95
200 each of values 1.00KΩ ~ 9.76KΩ (22,800 total pieces)	PHF4-KIT-ND◆	239.95
50 each of values 10.0KΩ ~ 97.6KΩ (5,650 total pieces)	PHF5A-KIT-ND◆	125.95
200 each of values 10.0KΩ ~ 97.6KΩ (22,600 total pieces)	PHF5-KIT-ND◆	239.95
50 each of values 100KΩ ~ 1.00MΩ (5,750 total pieces)	PHF6A-KIT-ND◆	125.95
200 each of values 100KΩ ~ 1.00MΩ (23,000 total pieces)	PHF6-KIT-ND◆	239.95
Yageo America 0402 5% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.0, 2.0, 3.0, 3.9Ω etc. ~ 1.0MΩ (2,600 total pieces)	PHJ1A-KIT-ND◆	45.95
200 each of values 1.0, 2.0, 3.0, 3.9Ω etc. ~ 1.0MΩ (10,400 total pieces)	PHJ1-KIT-ND◆	85.95
50 each of values 1.1, 2.2, 3.3, 4.3Ω etc. ~ 680KΩ (2,550 total pieces)	PHJ2A-KIT-ND◆	45.95
200 each of values 1.1, 2.2, 3.3, 4.3Ω etc. ~ 680KΩ (10,200 pieces)	PHJ2-KIT-ND◆	85.95
Yageo America 0603 5% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 910KΩ (3,600 total pieces)	PHG1A-KIT-ND◆	49.95
200 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 910KΩ (14,400 total pieces)	PHG1-KIT-ND◆	89.95
50 each of values 1.1, 1.3, 1.6, 2.2Ω etc. ~ 1.0MΩ (3,600 total pieces)	PHG2A-KIT-ND◆	49.95
200 each of values 1.1, 1.3, 1.6, 2.2Ω etc. ~ 1.0MΩ (14,400 pieces)	PHG2-KIT-ND◆	89.95
Yageo America 0805 5% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 1.0MΩ (3,650 total pieces)	PHA1A-KIT-ND◆	59.95
200 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 1.0MΩ (14,600 total pieces)	PHA1-KIT-ND◆	109.95
50 each of values 1.1, 1.3, 1.6, 2.0Ω etc. ~ 910KΩ (3,600 total pieces)	PHA2A-KIT-ND◆	59.95
200 each of values 1.1, 1.3, 1.6, 2.0Ω etc. ~ 910KΩ (14,400 pieces)	PHA2-KIT-ND◆	109.95
Yageo America 1206 5% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 910KΩ (3,600 total pieces)	PHE1A-KIT-ND◆	59.95
200 each of values 1.0, 1.2, 1.5, 1.8Ω etc. ~ 910KΩ (14,400 total pieces)	PHE1-KIT-ND◆	109.95
50 each of values 1.1, 1.3, 1.6, 2.0Ω etc. ~ 1.0MΩ (3,600 total pieces)	PHE2A-KIT-ND◆	59.95

Conveniently packaged in a plastic box with bin guide
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Description	Digi-Key Part No.	Price Each
Susumu 0402 .5% Thin Film Chip Resistor Assortments, 1/16 Watt		
60 each of 97 values (5820 pieces)	SSM1005PD-KIT-ND◆	207.69
Susumu 0603 .5% Thin Film Chip Resistor Assortments, 1/16 Watt		
60 each of 125 values (7500 pieces)	SSM0816PD-KIT-ND◆	207.69
Susumu 0805 .5% Thin Film Chip Resistor Assortments, 1/10 Watt		
60 each of 161 values (9660 pieces)	SSM1220PD-KIT-ND◆	207.69
Susumu 0805 1, 2 and 5% Thin Film Chip Resistor Assortments, 1/4 Watt		
40 each of 31 values (1240 pieces)	SSM1220-KIT-ND◆	123.78
Susumu 0815 1% Thin Film Chip Resistor Assortments, 1 Watt		
30 each of 20 values (600 pieces)	SSM3720W-KIT-ND◆	102.80
Susumu 0830 1, 2 and 5% Thin Film Chip Resistor Assortments, 2 Watt		
30 each of 16 values (480 pieces)	SSM7520W-KIT-ND◆	144.76

Digi-Key® Thermistor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Keystone Thermistors		
PTC - 2 each of 6 popular thermistors (12 total pieces)	KCPTC1-KIT-ND	24.18

◆ ***RoHS Compliant*** § Does not come with plastic box *(Continued)*

Digi-Key® Miscellaneous Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
3M Heatshrink Precut Lengths		
FP-301 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	FP-KIT-ND◆	22.95
VFP-876 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	VFP-KIT-ND◆	22.95
3M Colored Heatshrinkable Tubing **FP-301 Series**- 1-5 ft. tubing of each color in 8 series (55 total pieces)	FPC-KIT-ND§◆	84.95
Building Fasteners Hardware - 100 each of machine screws, hex nuts and lock washers in each of the following kits:		
Slotted - (1,600 total pieces)	1600-KIT-ND	17.95
Slotted - (1,600 total pieces)	1601-KIT-ND	27.95
Phillips - (1,600 total pieces)	1602-KIT-ND	17.95
Phillips - (1,600 total pieces)	1603-KIT-ND	27.78
Nylon - (1,500 total pieces)	1604-KIT-ND◆	53.94
Phillips, Stainless Steel - (1,400 total pieces)	1607-KIT-ND◆	39.95
Phillips, Stainless Steel - (1,500 total pieces)	1608-KIT-ND◆	79.95
Building Fasteners Hardware (Metric) - 100 each of machine screws, hex nuts, lock washers and flat washers in each of the following kits:		
Metric Phillips, Zinc Plated - (1,400 total pieces)	1605-KIT-ND	59.95
Metric Phillips, Zinc Plated - (1,500 total pieces)	1606-KIT-ND	99.95
CW Industries Switches Various quantities of 14 switches (120 total pieces)	SW-KIT-ND	79.95
Daburn Shrinkable Tubing, Polyolefin: Black 5 feet of 6 popular sizes (30 total feet of tubing)	STA-KIT-ND◆	10.95
ECS, Inc. Crystals 3 each of 27 popular crystals (81 total pieces)	XC-KIT-ND	169.00
Hamlin Magnetic Switches Various quantities of 18 switches (22 total pieces)	HE1-KIT-ND◆	69.95
Johnson Components Plugs and Jacks 10 each of 15 popular plugs and jacks (150 total pieces)	J100-KIT-ND	69.95
Mallory Sonalert SMD Buzzer Kit 2 each of 12 popular values (24 total pieces)	458-KIT-ND◆	60.00
Panasonic Tact Switch Kit 10 each of 10 parts (100 total pieces)	PANSW1-KIT-ND◆	39.95

Digi-Key® LED Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
ROHM LED 5MM Multi Color 5 each of 13 values (65 pieces)	511-8001-KIT-ND◆	17.95
ROHM LED 3MM Multi Color 5 each of 16 values (80 pieces)	511-8002-KIT-ND◆	19.95
ROHM LED 0402 Multi Color 5 each of 6 values (30 pieces)	511-8007-KIT-ND◆	30.95
ROHM LED 0603 Multi Color 5 each of 14 values (70 pieces)	511-8003-KIT-ND◆	18.95
ROHM LED 0805 Multi Color 5 each of 12 values (60 pieces)	511-8004-KIT-ND◆	17.95
ROHM LED 1208/1210 Multi Color 5 each of 9 values (45 pieces)	511-8006-KIT-ND◆	19.95

Digi-Key® Diode, TVS, and ESD Discrete Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Fairchild General Purpose Diode Kit 10 of 13 popular values (130 total pieces)	DIODESKITFS-ND◆	13.00
Littelfuse Ethernet Design Kit	ETHERNETLF-KIT-ND◆ ***NEW!***	73.04
Littelfuse SMAJ-A Series 5 each of 36 values (180 total pieces)	SMAJ-A-KIT-ND◆ ***NEW!***	32.30
Littelfuse SMAJ-CA Series 5 each of 36 values (180 total pieces)	SMAJ-CA-KIT-ND◆ ***NEW!***	33.65
Littelfuse SMBJ-A Series 5 each of 36 values (180 total pieces)	SMBJ-A-KIT-ND◆ ***NEW!***	33.11
Littelfuse SMBJ-CA Series 5 each of 36 values (180 total pieces)	SMBJ-CA-KIT-ND◆ ***NEW!***	34.46
Littelfuse P6SMB-A Series 5 each of 36 values (180 total pieces)	P6SMB-A-KIT-ND◆ ***NEW!***	33.11
Littelfuse P6SMB-CA Series 5 each of 36 values (180 total pieces)	P6SMB-CA-KIT-ND◆ ***NEW!***	34.46
Littelfuse SMCJ-A Series 5 each of 36 values (180 total pieces)	SMCJ-A-KIT-ND◆ ***NEW!***	42.96
Littelfuse SMCJ-CA Series 5 each of 36 values (180 total pieces)	SMCJ-CA-KIT-ND◆ ***NEW!***	45.12
Littelfuse SMDJ-A Series 5 each of 18 values (90 total pieces)	SMDJ-A-KIT-ND◆ ***NEW!***	52.11
Littelfuse SMDJ-CA Series 5 each of 18 values (90 total pieces)	SMDJ-CA-KIT-ND◆ ***NEW!***	69.48
MCC (Micro Commercial Components) Schottky Diodes 10 each of 18 popular values (180 total pieces)	353-8000-KIT-ND◆	60.70
MCC (Micro Commercial Components) Transient Voltage Suppressors 10 each of 18 popular values (180 total pieces)	353-8006-KIT-ND◆	48.84
MCC (Micro Commercial Components) Diode Kit 10 each of 26 popular values (260 total pieces)	353-8001-KIT-ND◆ ***NEW!***	40.75
MCC (Micro Commercial Components) Zener Kit 10 each of 17 SMD values (170 total pieces)	353-8003-KIT-ND◆ ***NEW!***	60.61
MCC (Micro Commercial Components) ESD Kit 10 each of 15 popular values (150 total pieces)	353-8007-KIT-ND◆	28.71
MCC (Micro Commercial Components) Diode Kit 10 each of 18 SMD values (180 total pieces)	353-8005-KIT-ND◆	31.73
MCC (Micro Commercial Components) Zener Kit 10 each of 18 values (180 total pieces)	353-8004-KIT-ND◆	30.08
NXP Schottky Diode Kit 25 each of 18 popular values (450 total pieces)	NXPMEGA1-KIT-ND◆	39.98
ST Microelectronics Schottky Diodes 5 each of 9 popular values (45 total pieces)	497-8006A-KIT-ND	6.95
ST Microelectronics Schottky Diodes 5 each of 11 popular values (55 total pieces)	497-8006B-KIT-ND	44.95
ST Microelectronics Schottky ESD Protective Diodes 5 each of 15 popular values (75 total pieces)	497-8009-KIT-ND◆	64.95
ST Microelectronics Diodes 5 each of 18 popular values (90 total pieces)	497-8010-KIT-ND◆	30.95

Digi-Key® Logic and Integrated Circuits Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Fairchild LVX Series Kit 5 of 6 popular values (30 total pieces)	LVKIT-ND◆	50.00
Fairchild FXL Series Kit 5 of 9 popular values (45 total pieces)	FXLKIT-ND◆	50.00
NXP LVC Logic Kit 10 each of 17 LVC Logic Devices	NXPLOGIC1-KIT-ND◆	40.05
NXP AUP Logic Kit 10 each of 18 AUP Logic Devices	NXPLOGIC2-KIT-ND◆	51.78
ST Microelectronics R/R Low Power Operational Amplifiers 5 each of 15 popular values (80 total pieces)	497-8000-KIT-ND	120.00
ST Microelectronics 74V/74LX SMD IC's 10 each of 18 popular values (180 total pieces)	497-8001-KIT-ND	40.95
ST Microelectronics Switching SMD IC's 10 each of 8 popular values (100 total pieces)	497-8007-KIT-ND	93.95

Digi-Key® Mosfet, Transistor, and IGBT Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
MCC (Micro Commercial Components) Transistors 10 each of 15 popular values (150 total pieces)	353-8002-KIT-ND◆	28.60
NXP Biss Transistor Kit 25 each of 17 popular values (425 total pieces)	NXPBISS1-KIT-ND◆	39.98
ST Microelectronics Mosfet Thru Hole 5 each of 9 popular values (45 total pieces)	497-8004-KIT-ND	100.00
ST Microelectronics Mosfet Automotive Kit 5 each of 12 values (60 total pieces)	497-8011-KIT-ND◆ ***NEW!***	110.95
ST Microelectronics Mosfet MD Mesh Kit 5 each of 10 values (50 total pieces)	497-8012-KIT-ND◆ ***NEW!***	199.95
ROHM Mosfet Kit 5 each of 16 values (80 total pieces)	846-1001-KIT-ND◆ ***NEW!***	19.70
ROHM Mosfet Kit 5 each of 14 values (70 total pieces)	846-1002-KIT-ND◆ ***NEW!***	13.85
ROHM Mosfet Kit 5 each of 16 values (80 total pieces)	846-1003-KIT-ND◆ ***NEW!***	24.99
ROHM Mosfet Kit 5 each of 8 values (40 total pieces)	846-1004-KIT-ND◆ ***NEW!***	24.99

Digi-Key® Serial EEPROM Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Microchip Serial EEPROM Kit **Low-Density** — 3 pieces each of parts 24AA01-I/PDK, 25AA040-I/P and 93AA46B-I/P (9 total pieces)	SEEPROM1-KIT-ND◆	17.95
Microchip Serial EEPROM Kit **Mid-Density** — 3 pieces each of parts 24AA16-I/P, 25AA080B-I/P and 93AA66C-I/P (9 total pieces)	SEEPROM2-KIT-ND	17.95
Microchip Serial EEPROM Kit **High-Density** — 3 pieces each of parts 24AA512-I/P, 25AA640-I/P and 93AA86C-I/P (9 total pieces)	SEEPROM3-KIT-ND	19.95
Microchip Serial EEPROM Kit **Combo Kit** — Contains everything in the Low-Density, Mid-Density and High-Density Kits (27 total pieces)	SEEPROM4-KIT-ND	29.95

◆ ***RoHS Compliant*** § Does not come with plastic box

Panasonic® Nickel-Metal Hydride Batteries and Tabbed Versions

Features:

- **Superior Energy Density:** Nickel-metal hydride batteries have approximately double the capacity compared with Panasonic's standard Ni-Cad batteries
- **High Cycle Life:** Like Ni-Cad batteries, nickel-metal hydride batteries can be repeatedly charged and discharged up to approximate 500 cycles (under ideal conditions).

Because a specially designed charger will be necessary, please consult the Panasonic Technical Handbook (P001-ND) regarding the charge system • **Flat trickle charge cannot be used** • **Excellent Discharge Characteristics:** Since the internal resistance of nickel-metal hydride batteries is low, continuous high-rate discharge up to 3C (10C for 4/5SC, SC) is possible in the same way as for Ni-Cad batteries. • **Excellent Reliability:** Self-discharge performance is the same or better than that of nickel-cadmium batteries. In addition, charging batteries after extended storage restores original battery capacity. Battery safety has also been improved and verified through testing under a wide range of conditions of use.

Applications:

• Communication • Office Automation • Audio Visual Equipment • Other High-Tech Products.

Caution for Safety:

Improper usage may cause battery liquid leakage, heat generation or explosion, resulting in equipment failure or injury • Do not disassemble or rework the battery • Do not solder the battery directly • Do not use new batteries together with old batteries, or different type batteries mixed together • Follow the specified charge conditions.

"H" Type:

- Improved low rate charge characteristics at higher temperatures.
- Ideal for back-up applications (with appropriate charge control circuitry).

Notes:

- **Battery Packs made with NIMH Cells include a thermostat.**
- **Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.**
- **Recycling information available on Digi-Key website.**
- **See following page for Battery Pack information.**

It is the responsibility of each user to ensure that each battery application system is adequately designed safe and compatible with all conditions encountered during use, and in conformance with existing standards and requirements.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

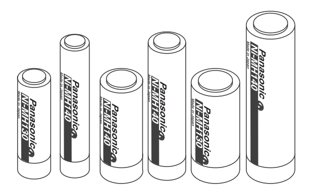

P001-ND	NIMH Technical Handbook	**$2.95**

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Std. Chg. @ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	Digi-Key Part No.	(Regular Version) Pricing 1	10	50	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	50	Panasonic Part No.
AAA	1.2	700	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	70	650	1.2	P213-ND†	2.90	26.10	116.00	P213T-ND	3.55	31.93	141.90	HHR-70AAAB8
AAA	1.2	700	0.41 x 1.75 (10.5 x 44.5)	0.42 (12)	70	450	1.7	P008-ND	3.15	28.35	126.00	P008T-ND	3.80	34.18	151.90	HHR-75AAA
4/5AA	1.2	1150	0.57 x 1.69 (14.5 x 43.0)	0.81 (23)	115	1150	1.2	P013-ND†	3.55	31.95	142.00	P013T-ND	4.20	37.78	167.90	HHR-120AA
AA	1.2	1500	0.57 x 1.97 (14.5 x 50.0)	0.92 (26)	150	1500	1.2	P015-ND†	3.63	32.63	145.00	P015T-ND	4.27	38.45	170.90	HHR-150AA
AA	1.2	2000	0.57 x 1.99 (14.5 x 50.5)	1.02 (29)	200	1200	2	P220-ND	4.25	38.25	170.00	P220T-ND	4.90	44.08	195.90	HHR-210AAC4B
4/5A	1.2	2000	0.67 x 1.71 (17.0 x 43.5)	1.20 (34)	200	2000	1.2	P010-ND†	5.38	48.38	215.00	P010T-ND	6.02	54.20	240.90	HHR-200A
A	1.2	2100	0.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	2100	1.2	P017-ND†	5.88	52.88	235.00	P017T-ND	6.52	58.70	260.90	HHR-210A
4/3A	1.2	3700	0.67 x 2.64 (17.0 x 67.0)	1.87 (53)	370	2000	‡	P018-ND†	6.63	59.63	265.00	P018T-ND	7.27	65.45	290.90	HHR-380A
4/3A	1.2	4200	0.72 x 2.64 (18.2 x 67.0)	2.12(60)	420	2000	‡	P214-ND†	9.30	83.70	372.00	P214T-ND	9.95	89.53	397.90	HHR-450A
4/5SC	1.2	2000	0.91 x 1.34 (23.0 x 34.0)	1.48 (42)	200	2000	1.2	P020-ND†	6.90	62.10	276.00	P020T-ND	7.55	67.93	301.90	HHR-20SCPY14
SC	1.2	2450	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	260	2600	1.2	P641-ND†	7.60	68.40	304.00	P641T-ND	8.25	74.23	329.90	HHR-26SCPY01
SC	1.2	3000	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	300	3000	1.2	P021-ND†	6.90	62.10	276.00	P021T-ND	7.55	67.93	301.90	HHR-30SCPY20
D	1.2	6500	1.30 x 2.39 (33.0 x 60.8)	6.00 (170)	650	6500	1.2	P019-ND†	23.55	211.95	942.00	P019T-ND	24.20	217.78	967.90	HHR-650D
"H" Type																
AAA	1.2	500	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	50	250	2.4	P634-ND†	3.00	27.00	120.00	P634T-ND	3.65	32.83	145.90	HHR-60AAAH
A	1.2	1900	0.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	—	—	P635-ND†	6.50	58.50	260.00	P635T-ND	7.15	64.33	285.90	HHR-210AH
A	1.2	3200	0.72 x 2.64 (18.2 x 67.0)	2.12 (60)	330	1650	2.4	P636-ND†	11.35	102.15	454.00	P636T-ND	12.00	107.98	479.90	HHR-330APH
A	1.2	3500	0.72 x 2.64 (18.2 x 67.0)	2.12 (60)	370	1750	2.4	P637-ND†	11.40	102.60	456.00	P637T-ND	12.05	108.43	481.90	HHR-370AH
SC	1.2	2500	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	250	1250	2.4	P638-ND†	10.10	90.90	404.00	P638T-ND	10.75	96.73	429.90	HHR-250SCH
C	1.2	3100	1.02 x 1.97 (25.8 x 50.0)	2.82 (80)	300	1500	2.4	P639-ND†	10.65	95.85	426.00	P639T-ND	11.30	101.68	451.90	HHR-300CH

† Non-extending positive terminals. ▲ See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Use dT/dt charge termination method.

Energizer® Nickel-Metal Hydride Chargers and Rechargeable Batteries

c UL us LISTED

Equipped with intelligent features such as safety timers, temperature monitors and trickle charge technologies, these chargers are the smart way to keep plenty of energy on hand. Energizer is the leader in rechargeable technology, offers a complete line of high capacity batteries and technologically advanced chargers to fit any lifestyle. These batteries are engineered to work with your most advanced, high-drain devices such as digital cameras, PDAs, hand-held games, portable CD players and MP3 players. Since they are renewable and reusable, Energizer Rechargeable batteries work hard for you.

Notes:

- **Battery Packs made with NIMH Cells include thermostat.**
- **Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.**
- **Recycling information available on Digi-Key website.**

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig. 1

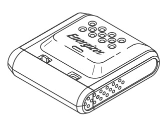

Fig. 2

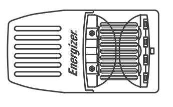

Fig. 3

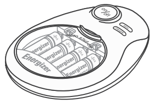

Fig. 4

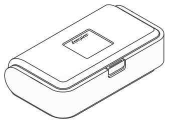

Fig.	Size	Capacity (mAh)	Charge Time	Dimensions Inch (mm)	Digi-Key Part No.	Price Each	Energizer Part No.
Chargers — RoHS Compliant							
1	AA/AAA(4)	2,500/850	4.5 ~ 8 hours	3.268 x 2.992 x 1.181 (83 x 76 x 30)	N310-ND	19.48	CHDCWOB
2	AA(2)/AAA(2)	2,200/700	20 minutes	1.575 x 5.157 x 3.071 (40 x 131 x 78)	N312-ND†	53.17	CH15MNCP-4
3	AA/AAA(4)	2,500/900	5.7 ~ 9 hours	5.236 x 3.504 x 1.260 (133 x 89 x 32)	N314-ND§	35.39	CHFMWB-4
4	AA/AAA/9V/C/D	—	3 ~ 7 hours	2.835 x 7.992 x 4.370 (72 x 203 x 111)	N316-ND	44.98	CHFC

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Digi-Key Part No.	(Regular Version) Pricing 1	10	12	50	60	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	50	Energizer Part No.
Batteries															
AAA	1.2	850	0.413 x 1.752 (10.50 x 44.50)	0.5 (13)	N704-ND	2.75	24.75	—	110.00	—	—	—	—	—	NH12
AA	1.2	2,300	0.571 x 1.988 (14.50 x 50.50)	1.1 (30)	N703-ND	4.40	39.60	—	176.00	—	N703T-ND	5.07	45.65	202.90	NH15
C	1.2	2,500	26.2 x 1.969 (26.20 x 50.0)	2.3 (66)	N702-ND‡	15.33	—	165.51	—	735.60	N702T-ND	16.00	143.98	639.90	NH35BP-2
D	1.2	2,500	1.346 x 2.421 (34.20 x 61.50)	2.6 (73)	N701-ND‡	15.33	—	165.51	—	735.60	N701T-ND	16.00	143.98	639.90	NH50BP-2
9V	7.2	175	1.909 x 0.689 x 26.5 (48.50 x 17.50 x 26.50)	1.5 (42)	N705-ND	10.88	97.88	—	435.00	—	—	—	—	—	NH22

‡ Package of two ▲ See "Ordering Information" for note on shipping charges on prepaid orders. † Includes 4AA 2200mAh NIMH Batteries
§ Includes 2AA and 2AAA NIMH Batteries

SANYO Ni-Cd Batteries

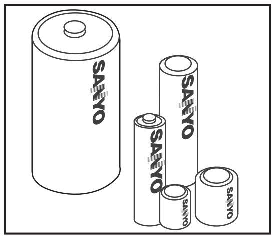

Nickel-Cadmium (Ni-Cd) batteries use nickel oxide in its positive electrode (cathode), a cadmium-compound in its negative electrode (anode), and potassium hydroxide solution in its electrolyte. The Nickel-Cadmium battery is rechargeable, so you can use it over and over.

Features: • Discharge voltage remains stable even in conditions of high-rate discharge current – for equipment needing a high-rate discharge current, it is far more stable than other battery types • Wide operating temperature range of -20°C ~ 60°C — operates especially well in low temperatures • Performance does not deteriorate even after long-term storage – full recovery of original performance levels after recharging • Designed to withstand overcharge and overdischarge – superior durability • Sealed configuration with gas release vent – easy maintenance and no leakage • Produced using an ISO9000 certified quality control system – high quality and reliability

Applications: • Cellular phones, telecommunications equipment • Portable audio-visual equipment • Emergency lights • Electric tools • Battery-powered vehicles

Notes: • Recycling information available on Digi-Key website.
• See previous page for Battery Pack information.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Std. Charge @ 14 ~ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	Digi-Key Part No.	(Regular Version) Pricing 1	10	50	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	50	Sanyo Part No.
AA	1.2	700	0.54 x 1.95 (13.8 x 49.5)	0.81 (23)	70	210	4 ~ 6	SY114-ND	2.22	19.95	88.65	SY114T-ND	2.89	26.00	115.55	N-700AAC
AA	1.2	700	0.54 x 1.90 (13.8 x 48.2)	0.81 (23)	70	210	4 ~ 6	SY115-ND†	2.36	21.28	94.56	SY115T-ND	3.04	27.33	121.46	N-700AACL
4/5A	1.2	1,500	0.65 x 1.65 (16.5 x 42.0)	1.09 (31)	150	2300	1	SY110-ND†	5.14	46.28	205.67	SY110T-ND	5.81	52.33	232.57	KR-1500AUL
A	1.2	1,700	0.65 x 1.91 (16.5 x 48.5)	1.27 (36)	170	2600	1	SY112-ND†	5.35	48.14	213.94	—	—	—	—	KR-1700AU
A	1.2	1,400	0.65 x 1.91 (16.5 x 48.5)	1.09 (31)	140	2100	1	SY111-ND†	4.10	36.90	—	SY111T-ND	5.22	47.01	208.93	KR-1400AE
4/5SC	1.2	1,200	0.87 x 1.30 (22.0 x 33.0)	1.52 (43)	125	375	4 ~ 6	SY118-ND†	5.02	45.21	200.94	SY118T-ND	5.70	51.26	227.84	N-1250SCRL
4/5SC	1.2	1,700	0.87 x 1.30 (22.0 x 33.0)	1.62 (46)	170	2550	1	SY119-ND	7.06	63.56	282.50	—	—	—	—	CP-1700SCR
SC	1.2	1,200	0.87 x 1.65 (22.0 x 42.0)	1.62 (46)	120	—	—	SY126-ND†	5.23	47.07	209.21	—	—	—	—	KR-SCH(1.2)
SC	1.2	1,300	0.87 x 1.65 (22.0 x 42.0)	1.83 (52)	130	390	4 ~ 6	SY120-ND†	4.99	44.95	199.76	SY120T-ND	5.67	51.00	226.66	N-1300SCR
SC	1.2	1,700	0.87 x 1.65 (22.0 x 42.0)	1.90 (54)	170	2600	1	SY121-ND†	5.61	50.53	224.58	SY121T-ND	6.29	56.58	251.48	N-1700SCR
SC	1.2	1,800	0.87 x 1.65 (22.0 x 42.0)	1.66 (47)	180	2700	1	SY156-ND†	4.40	39.63	176.12	SY156T-ND	5.08	45.68	203.02	KR1800SCE
SC	1.2	1,900	0.87 x 1.65 (22.0 x 42.0)	1.98 (54)	190	2900	1	SY122-ND†	5.88	52.92	235.22	SY122T-ND	6.55	58.98	262.12	N-1900SCR
C	1.2	2,500	0.99 x 1.93 (25.2 x 49.0)	2.61 (74)	250	—	—	SY128-ND†	13.30	119.68	531.90	SY128T-ND	13.97	125.73	558.80	KR-CH(2.5)
C	1.2	3,000	0.99 x 1.93 (25.2 x 49.0)	2.96 (84)	300	4500	1	SY123-ND†	9.28	83.51	371.15	SY123T-ND	9.95	89.56	398.05	N-3000CR
C	1.2	3,600	0.99 x 1.93 (25.2 x 49.0)	3.14 (89)	360	5400	1	SY124-ND†	11.61	104.52	464.53	SY124T-ND	12.29	110.57	491.43	CP-3600CR
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.64 (160)	400	6000	1	—	—	—	—	SY125T-ND	17.01	153.12	680.55	N-4000DRL
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.11 (145)	400	—	—	—	—	—	—	SY130T-ND	14.09	126.79	563.53	KR-DHL
D	1.2	4,400	1.27 x 2.36 (32.3 x 60.0)	5.11 (145)	440	—	—	—	—	—	—	SY108T-ND	13.67	123.07	546.98	KR-4400D
F	1.2	7,000	1.27 x 3.54 (32.3 x 90.0)	8.11 (230)	700	—	—	SY131-ND	26.80	241.22	1072.07	SY131T-ND	27.47	247.27	1098.97	KR-7000F

† Non-extending positive terminals ▲ See “Ordering Information” for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Battery Packs

For Memory Backup, Power Tools, Radio Controlled and Other Endless Applications

All battery packs are made using our suppliers’ high quality cells. Shown are standard configurations. If you have a special need or a configuration that you do not see, give us a call for further information. Packs are available in nearly all sizes of Nickel-Cadmium, NIMH, Alkaline and Carbon Zinc cylinder batteries.

Note: Recycling information available on Digi-Key website.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

HOW TO ORDER:

Using: ***Panasonic Cells:*** **P ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND**

Energizer Cells: **N ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND**

Sanyo Cells: **SY ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND**

Call for pricing on any standard or custom battery pack

Select Digi-Key Part No. of any Cylinder Type Battery

Select Style of Battery Pack From Chart

Style	Volts†	Cells	Configurations	Diagram
F021	2.4	2	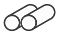	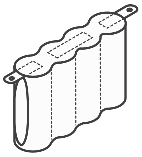
F031	3.6	3	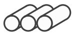	
F041	4.8	4	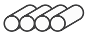	
F051	6.0	5	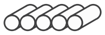	
F061	7.2	6	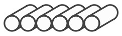	
F071	8.4	7	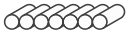	
F081	9.6	8	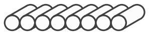	
F091	10.8	9	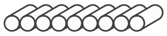	
F101	12.0	10	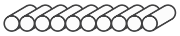	
F022	4.8	4		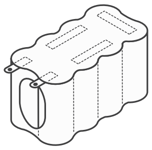
F023	7.2	6	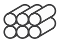	
F024	9.6	8	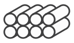	
F025	12.0	10	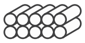	

Style	Volts†	Cells	Configurations	Diagram
L021*	2.4	2	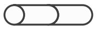	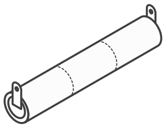 * Styles L021, L031, L041 and L051 are not available in nickel-metal hydride batteries.
L031*	3.6	3	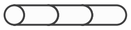	
L041*	4.8	4	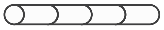	
L051*	6.0	5	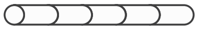	
L022	4.8	4	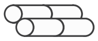	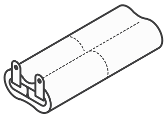
L032	7.2	6	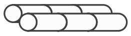	
L042	9.6	8	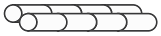	
L052	12.0	10	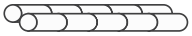	
L023	7.2	6	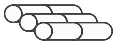	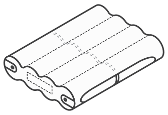
L024	9.6	8	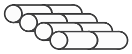	
L025	12.0	10	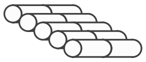	

† Voltage increments of 1.5 volts are used for Alkaline and Carbon Zinc packs.

FDK

Nickel-Metal Hydride Batteries

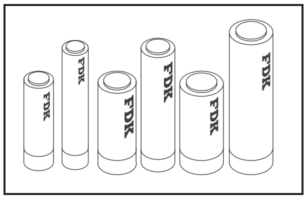

The Twicell Nickel-Metal Hydride battery is a secondary battery which lasts more than twice as long as CADNICA batteries. Twicell uses hydrogen absorbing alloys in its negative electrode (anode) and nickel oxide in its positive electrode (cathode).

Features:

• High volumetric energy density well exceeding that of Lithium-ion batteries • Double capacity of standard CADNICA batteries • Can be used over and over (more than 500 times with a specific charger) • 1.2 ~ 1.6 hour quick charge with a specific charger • Produced under a ISO9002 certified quality control systems

Applications:

• Notebook computers • Cellular phones, PHS phones, telecommunications equipment, video camera, digital still cameras, PDA, shavers, electric toothbrushes, and various portable equipment

Notes:

- **Battery Packs made with NIMH Cells include a thermostat.**
- **Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.**
- **Recycling information available on Digi-Key website.**
- **See this page for Battery Pack information.**

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Size	Volt-age (V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Std. Charge @ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	Digi-Key Part No.	(Regular Version) Pricing 1	10	50	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	50	FDK America Part No.
AAA	1.2	1000	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	100	1000	1.1	SY153-ND§	3.84	34.57	153.66	—	—	—	—	HR-4U-1000
AAA	1.2	650	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	73	730	1.1	SY143-ND†	3.43	30.85	137.11	SY143T-ND	4.10	36.90	164.01	HR-AAAU
5/4AAA	1.2	760	0.41 x 1.97 (10.5 x 50.0)	0.53 (15)	85	850	1.1	SY142-ND†	4.43	39.89	177.30	SY142T-ND	5.11	45.95	204.20	HR-5/4AAAU
4/5AA	1.2	1,000	0.56 x 1.69 (14.2 x 43.0)	0.81 (23)	110	1100	1.1	SY137-ND†	—	—	—	SY137T-ND	5.13	46.21	205.38	HR-4/5AAUC
AA	1.2	1,650	0.56 x 1.97 (14.2 x 50.0)	0.99 (28)	165	1650	1.1	SY144-ND†	5.38	48.40	215.12	SY144T-ND	6.05	54.46	242.02	HR-AAU
AA	1.2	2,300	0.57 x 1.98 (14.35 x 50.4)	1.06 (30)	250	2500	1.1	SY134-ND	5.76	51.86	230.49	SY134T-ND	6.43	57.91	257.39	HR-3U-2500
A	1.2	1,900	0.67 x 1.97 (17.0 x 50.0)	1.41 (40)	210	2100	1.1	—	—	—	—	SY145T-ND	9.15	82.38	366.13	HR-AUC
4/5A	1.2	1,900	0.67 x 1.69 (17.0 x 43.0)	1.23 (35)	215	2150	1.1	SY139-ND†	6.32	56.91	252.95	SY139T-ND	7.00	62.97	279.85	HR-4/5AU
A	1.2	2,450	0.67 x 1.97 (17.0 x 50.0)	1.41 (40)	270	2700	1.1	SY146-ND†	7.00	63.03	280.13	SY146T-ND	7.68	69.08	307.03	HR-AU
4/3A	1.2	3,600	0.67 x 2.66 (17.0 x 67.5)	1.94 (55)	400	3000	1.4	SY135-ND†	9.49	85.37	379.42	SY135T-ND	10.16	91.42	406.32	HR-4/3AU (4.0AH)
4/3FA	1.2	4,100	0.71 x 2.66 (18.0 x 67.5)	2.19 (62)	450	3000	1.6	SY136-ND†	11.55	103.99	462.16	SY136T-ND	12.23	110.04	489.06	HR-4/3FAU (4.5AH)
SC	1.2	2,700	0.91 x 1.71 (23.0 x 43.5)	2.15 (61)	300	3000	1.1	SY149-ND†	10.14	91.22	405.43	SY149T-ND	10.81	97.27	432.33	HR-SCU
D	1.2	6,500	1.34 x 2.33 (34.0 x 59.3)	6.17 (175)	730	5000	1.7	SY147-ND†	25.59	230.31	1023.61	SY147T-ND	26.26	236.37	1050.51	HR-D
D	1.2	8,450	1.34 x 2.33 (34.0 x 59.3)	6.28 (178)	900	5000	2.0	SY148-ND†	31.81	282.73	1236.96	SY148T-ND	32.41	288.11	1260.50	HR-DU (9.0AH)

§ Not available in Battery Packs

† Non-extending positive terminals ▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Lithium Batteries

Lithium batteries use lithium metal or a lithium aluminum alloy in its negative electrode (anode) and manganese dioxide in its positive electrode (cathode). **Features: CR Series:** • High operating voltage of 3V and high energy density • Wide operating temperature range of -40°C ~ 85°C, depending on type • Low self-discharge rate of 0.5% per year at room temperature • High capacity cylindrical type • SO9002 certified **ML Series:** • High operating voltage of 2.5V • Wide operating temperature range of -20°C ~ 60°C • Low self-discharge rate of 2% per year at room temperature • Superior charge and discharge cycle • Able to charge at 2.8V **Applications:** • Cameras • Electronic meters (water, gas, electricity) • Electronic car keys **Memory Backup Power:** • RTC and SRAM for cellular phones • SRAM and DRAM for computers • SRAM and DRAM for facsimile machines • SRAM and DRAM for communications equipment and office equipment

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Dimensions in mm

Fig. 1

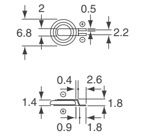

Fig. 2

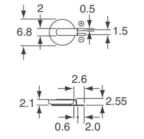

Fig. 3

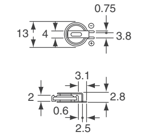

Fig.	Type	(V)	Capacity (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Standard Discharge Current (mA)	Digi-Key Part No.	Pricing 1	10	50	FDK America Part No.
					Coin						
—	Coin	3	25	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY033-ND	.71	6.38	28.37	CR1220
	Coin	3	80	0.79 x 0.06 (20.0 x 1.6)	0.06 (1.7)	0.3	SY138-ND	.41	3.72	16.55	CR2016
	Coin	3	150	0.79 x 0.10 (20.0 x 2.5)	0.09 (2.5)	0.3	SY188-ND	.44	3.99	17.73	CR2025
	Coin	3	220	0.79 x 0.13 (20.0 x 3.2)	0.11 (3.0)	0.3	SY189-ND	.41	3.72	16.55	CR2032
	Coin	3	280	0.96 x 0.12 (24.5 x 3.0)	0.14 (4.0)	0.3	SY603-ND	1.42	12.77	56.74	CR2430
	Coin	3	610	0.96 x 0.20 (24.5 x 5.0)	0.24 (6.9)	0.2	SY340-ND	1.45	13.03	57.92	CR2450
					Coin – Rechargeable						
1	Coin	3	3.4	0.27 x 0.06 (6.8 x 1.4)	0.006 (0.16)	0.015	SY152-ND	2.51	22.61	100.47	ML614-TZ21
2	Coin	3	5.5	0.27 x 0.08 (6.8 X 2.1)	0.008 (0.22)	0.015	SY103-ND	2.51	22.61	100.47	ML621-TZ1
3	Coin	3	15	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY104-ND	4.26	38.30	170.21	ML1220-TJ1
					Camera						
—	Cylindrical	3	160	0.46 x 0.41 (11.6 x 10.8)	0.17 (3.3)	2	SY100-ND	3.75	33.78	150.11	CR-1-3N
	Cylindrical	3	850	0.61 x 1.06 (15.6 x 27.0)	0.39 (11)	10	SY155-ND	4.37	39.36	174.94	CR2
	Cylindrical	3	1,400	0.67 x 1.36 (17.0 x 34.5)	0.60 (17)	10	SY154-ND	4.11	36.97	164.30	CR123A
	Pack	3	3,300	1.14 x 0.57 x 2.05 (29.0 x 14.5 x 52.0)	1.34 (38)	20	SY212-ND	14.01	126.06	560.27	CR-V3
	Cylindrical	6	160	0.51 x 0.99 (13.0 x 25.2)	0.32 (9.1)	2	SY101-ND	10.17	91.49	406.61	2CR-1-3N
	Pack	6	1,400	1.37 x 0.77 x 1.41 (34.8 x 19.5 x 35.8)	1.31 (37)	10	SY205-ND	10.19	91.75	407.79	CR-P2
	Pack	6	1,400	1.34 x 0.67 x 1.77 (34.0 x 17.0 x 45.0)	1.41 (40)	10	SY073-ND	10.28	92.55	411.34	2CR5

▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Energizer®

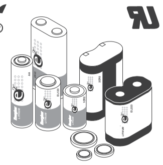

Lithium Batteries

Features: • Lithium batteries substantially outlast alkaline batteries and supply energy at a constant voltage over a wide range of discharge conditions • Lithium batteries have an estimated shelf life of up to 10 years • The L91 AA is the world's longest lasting AA battery in high-drain applications, based on industry standard testing • 9V type for telemetry and other applications • Energizer e²® Photo Lithium batteries provide the ideal power source for today's photographic devices, with advanced lithium technology for exceptional power in digital devices • Coin types for keyless entry and other electronic applications

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Type	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions (mm) Diameter / Height	Weight▲ (g)	Digi-Key Part No.	Pricing 1	10	12	100	Energizer Part No.
AAA	1.5	1,200	0.8	50mA	10.5 / 44.5	7.6	N600-ND	3.93	35.33	—	274.75	L92
AA	1.5	3,000	0.8	50mA	14.5 / 50.5	14.5	N602-ND	3.93	35.33	—	274.75	L91
Camera	3	1,500	2.0	100Ω	17 / 34.5	16.8	N151-ND	3.50	31.50	—	280.00	EL123AP
Camera	3	800	2.0	100Ω	15.6 / 27	11.0	N157-ND	4.78	—	51.57	275.04/72	EL1CR2BP
Camera Pack	6	1,500	3.5	200Ω	34 x 17 x 45	39.5	N073-ND	13.05	—	140.94	626.40/60	EL2CR5BP
Camera Pack	6	1,400	4.0	200Ω	35 x 19.5 x 36	37.0	N205-ND	13.05	—	140.94	626.40/60	EL223APBP
Camera Pack (x2)	3	2,900	2.0	200mA	28.2 x 14 x 51.6	32	N212-ND†	24.45	—	264.06	1173.60/60	ELCRV3BP2
Coin, 12.5MM	3	29	2.0	45kΩ	12.5 / 1.6	0.7	N032-ND	1.15	—	12.42	66.24/72	ECR1216BP
Coin, 12.5MM	3	40	2.0	45kΩ	12.5 / 2	0.76	N033-ND	.95	8.55	—	66.50	CR1220VP
Coin, 16MM	3	55	2.0	30kΩ	16 / 1.6	1.2	N034-ND	.78	6.98	—	54.25	CR1616VP
Coin, 16MM	3	79	2.0	30kΩ	16 / 2	1.4	N035-ND	.98	8.78	—	68.25	CR1620VP
Coin, 16MM	3	130	2.0	15kΩ	16 / 3.2	1.8	N036-ND	1.25	11.25	—	87.50	CR1632VP
Coin, 20MM	3	58	2.0	30kΩ	20 / 1.2	1.3	N037-ND	1.18	10.58	—	82.25	CR2012VP
Coin, 20MM	3	80	2.0	30kΩ	20 / 1.6	1.9	N138-ND	.38	3.38	—	26.25	CR2016VP
Coin, 20MM	3	170	2.0	15kΩ	20 / 2.5	2.8	N188-ND	.43	3.83	—	29.75	CR2025VP
Coin, 20MM	3	225	2.0	10kΩ	20 / 3.2	3.3	N189-ND	.40	3.60	—	28.00	CR2032VP
Coin, 24.5MM	3	290	2.0	10kΩ	24.5 / 3	4.6	N603-ND	1.43	12.83	—	99.75	CR2430
Coin, 24.5MM	3	575	2.0	5.1kΩ	24.5 / 5	6.9	N340-ND	1.45	13.05	—	101.50	CR2450VP
9V	9	750	5.4	25mA	26.5 x 17.5 x 49	33.9	N538-ND ***NEW!***	10.00	90.00	—	—	LA522

† One piece = package of two battery packs. ▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Lithium Batteries

The main features of lithium batteries are as follows:

- **High Voltage:** Nominal voltage is 3V, which is nearly double that of other batteries which use the aqueous electrolyte system, such as manganese dry batteries, and silver-oxide batteries.
- **High Energy Density:** Overwhelmingly high energy density, as compared with conventional batteries and other lithium batteries. The energy density is 5 to 10 times higher than that of manganese dry batteries.
- **Long Service and Shelf Life:** Since Panasonic lithium batteries are composed of chemically and thermally stable material, self-discharge is extremely small. Deterioration when stored at room temperatures is ca. 0.5% annually – worry about deterioration is unnecessary.
- **Stable Flat Discharge Voltage:** Since conductive carbon is continuously formed during discharge, internal impedance does not increase until the end of discharge, thus stabilizing discharge voltage.
- **Excellent Temperature Characteristics:** Organic solvent ensures a low electrolyte freezing point so that the batteries can be used in a wide temperature range, -40°C ~ 85°C is standard (-40°C ~ 80°C for BR2325 and BR2330; -40°C ~ 125°C for the High Temperature Coin Type; -40°C ~ 70°C for Camera Type; -30° ~ 60°C for CR2004/P9A).
- **BR Types versus CR Types:** BR, or (CF) n/Li, batteries provide a more stable voltage particularly during the last half of discharge, while CR, or Mn02/Li, batteries provide a higher voltage during the first half. CR batteries also can provide a higher current capability than BR batteries. In storage, BR batteries perform better at high temperatures. These characteristics must be taken into consideration when selecting a battery for a particular application.
- **UL Approval:** Panasonic Lithium batteries are UL recognized. UL File No. MH12210.
- **DOT Exemption:** Panasonic lithium cells and multiple cell batteries are authorized for transportation, in commerce, by U.S. shipping exemption DOT-E7052.
- **Disposal Information:** Panasonic lithium cells are not an EPA listed hazardous waste, but may be considered a "characteristic" hazardous waste. Lithium metal, the anode component of the cells, is considered by the U.S. EPA to be hazardous when disposed because it is reactive with water. However, a cell which contains a small quantity of lithium metal is not necessarily a hazardous waste. Disposal regulations and policies are different in each State and are subject to frequent changes. Contact your local jurisdiction for specific advice on disposal.

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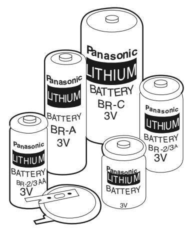

PCB Terminal Type

Fig. 1

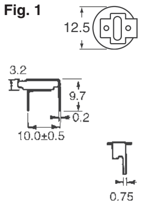

Fig. 2

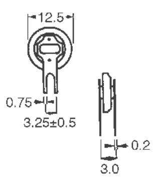

Fig. 3

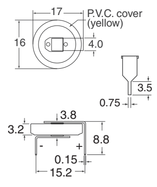

Fig. 4

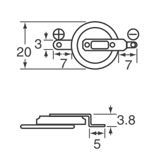

Fig. 5

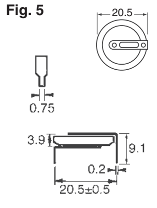

Fig. 6

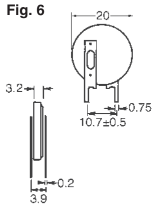

Fig. 7

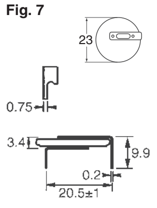

Fig. 8 (with PVC Cover)

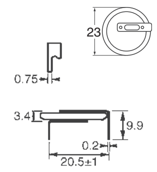

Fig. 9

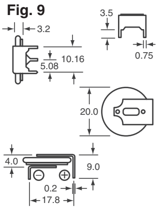

Fig. 10

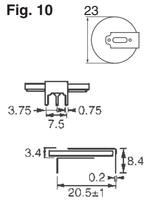

Fig. 11

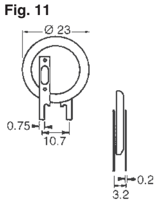

Fig. 12

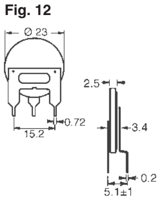

Fig. 13

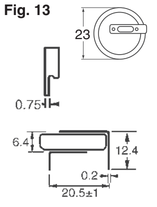

Fig. 14

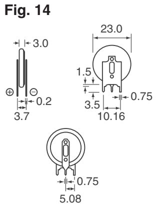

Fig. 15

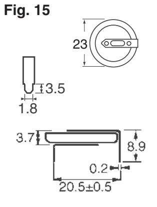

Fig. 16

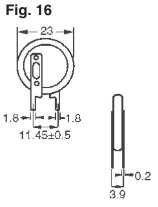

Fig. 17

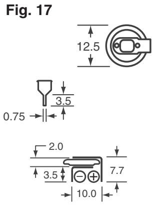

Fig. 18

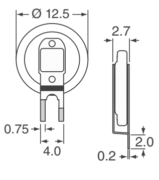

Fig. 19

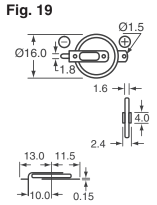

Fig. 20

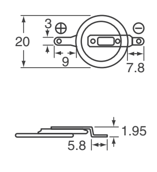

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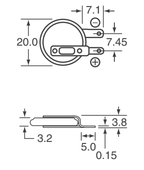

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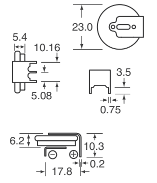

Fig. 23

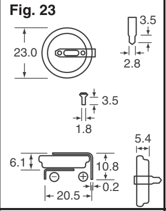

Fig. 24

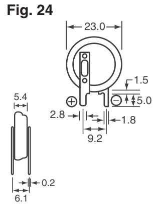

Fig. 25

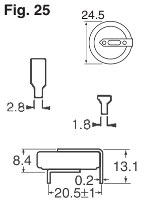

Fig. 26

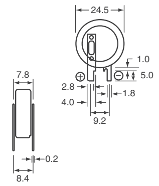

Fig. 27

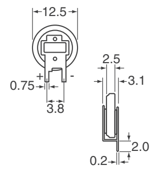

Fig. 28

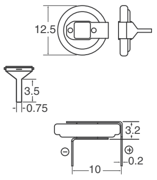

Fig. 29

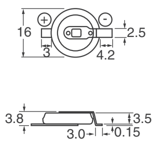

Fig. 30

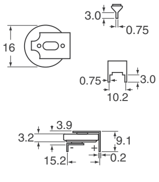

Fig. 31

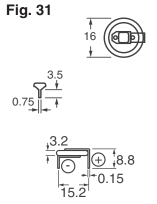

Fig. 32

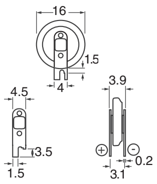

Fig. 33

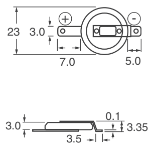

Fig. 34

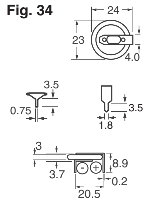

Fig. 35

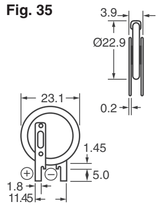

Fig. 36

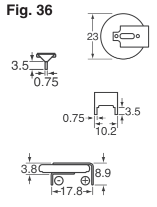

Fig. 37

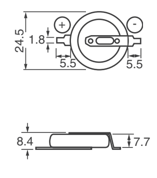

Fig. 38

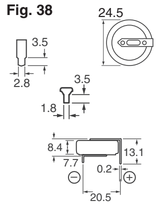

Fig. 39

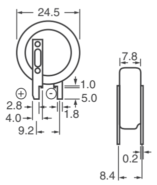

Fig. 40

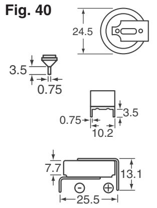

Fig.	Type	(V)	Capacity (mAh)	Weight§ (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing 1	10	50	60	100	Panasonic Part No.
						PCB Terminal – Coin Type						
1	Coin	3	48	0.8	0.03	P191-ND	1.70	15.30	68.00	—	142.80/120	BR-1225/HCN
2	Coin	3	48	0.8	0.03	P192-ND	1.70	15.30	68.00	—	119.00	BR-1225/VCN
3	Coin	3	120	1.6	0.03	P299-ND	1.70	15.30	68.00	—	178.50/150	BR-1632/HFN
4	Coin	3	190	2.5	0.03	P223-ND	1.73	15.53	69.00	—	193.20/160	BR-2032/F2N
5	Coin	3	190	2.5	0.03	P196-ND	1.73	15.53	—	82.80	120.75	BR-2032/HEN
6	Coin	3	190	2.5	0.03	P197-ND	1.73	15.53	69.00	—	144.90/120	BR-2032/VBN
7	Coin	3	165	3.2	0.03	P142-ND	1.73	15.53	—	82.80	120.75	BR2325-HBN
8	Coin	3	165	3.2	0.03	P202-ND	1.73	15.53	—	82.80	120.75	BR-2325/HCN

† Insulator (Yellow) § See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required. *(Continued)*

Lithium Batteries
PCB Terminal Type *(Cont.)*

Fig.	Type	(V)	Capacity (mAh)	Weight§ (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing 1	10	50	60	100	Panasonic Part No.
9	Coin	3	190	2.5	0.03	P241-ND	1.73	15.53	69.00	—	120.75	BR-2032/GUN
10	Coin	3	165	3.2	0.03	P193-ND	1.73	15.53	—	82.80	120.75	BR-2325/HGN
11	Coin	3	165	3.2	0.03	P194-ND	1.73	15.53	69.00	—	120.75	BR-2325/VCN
12	Coin	3	165	3.2	0.03	P195-ND	1.73	15.53	—	82.80	120.75	BR-2325/VGN
13	Coin	6	165	6.4	0.03	P143-ND	3.55	31.95	142.00	—	596.40/240	BR2325-2HC
14	Coin	3	255	3.2	0.03	P243-ND	2.05	18.45	82.00	—	143.50	BR-2330/GVFN
15	Coin	3	255	3.2	0.03	P198-ND	2.05	18.45	82.00	—	143.50	BR-2330/HEN
15	Coin	3	255	3.2	0.03	P642-ND†	2.05	18.45	—	98.40	—	BR-2330/HFN
16	Coin	3	255	3.2	0.03	P199-ND	2.05	18.45	82.00	—	143.50	BR-2330/VCN
17	Coin	3	35	1.2	0.10	P244-ND	1.25	11.25	50.00	—	105.00/120	CR-1220/HFN
18	Coin	3	35	1.2	0.10	P279-ND	1.25	11.25	—	—	87.50	CR-1220-1FCE
19	Coin	3	55	1.2	0.10	P273-ND	1.35	12.15	54.00	—	94.50	CR-1616/F2N
20	Coin	3	90	1.6	0.10	P222-ND	1.08	9.68	43.00	—	75.25	CR2016-1F2
21	Coin	3	225	1.2	0.29	P245-ND	1.08	9.68	43.00	—	75.25	CR-2032/F4N
22	Coin	3	560	5.9	0.20	P246-ND	1.90	17.10	76.00	—	133.00	CR-2354/GUN
23	Coin	3	560	5.9	0.20	P274-ND	1.90	17.10	76.00	—	133.00	CR-2354/HFN
24	Coin	3	560	5.9	0.20	P248-ND	1.90	17.10	76.00	—	133.00	CR-2354/VCN
25	Coin	3	1000	10.5	0.20	P126-ND	4.18	37.58	167.00	—	292.25	CR-2477/HFN
26	Coin	3	1000	10.5	0.20	P271-ND	4.18	37.58	167.00	—	292.25	CR-2477/VCN
						PCB Terminal – High Temperature Coin Type (-40°C ~ 125°C)						
27	Coin	3	48	0.8	0.03	P290-ND	1.98	17.78	79.00	—	138.25	BR-1225A/FAN
28	Coin	3	48	1.0	0.03	P061-ND	1.98	17.78	79.00	—	165.90/120	BR-1225A/HBN
29	Coin	3	120	1.5	0.03	P022-ND	1.93	17.33	77.00	—	134.75	BR-1632A/FAN
30	Coin	3	120	1.5	0.03	P291-ND	1.93	17.33	77.00	—	202.13/150	BR-1632A/GAN
31	Coin	3	120	1.5	0.03	P023-ND	1.93	17.33	77.00	—	134.75	BR-1632A/HAN
32	Coin	3	120	1.5	0.03	P024-ND	1.93	17.33	77.00	—	202.13/150	BR-1632A/VAN
33	Coin	3	255	3.2	0.03	P025-ND	2.20	19.80	88.00	—	154.00	BR-2330A/FAN
34	Coin	3	255	3.2	0.03	P026-ND	2.20	19.80	88.00	—	154.00	BR-2330A/HDN
35	Coin	3	255	3.2	0.03	P027-ND	2.20	19.80	88.00	—	154.00	BR-2330A/VAN
36	Coin	3	255	3.2	0.03	P224-ND	2.20	19.80	88.00	—	154.00	BR-2330A/GAN
37	Coin	3	1000	8.0	0.03	P028-ND	3.68	33.08	—	176.40	257.25	BR-2477A/FBN
38	Coin	3	1000	8.0	0.03	P029-ND	3.68	33.08	147.00	—	257.25	BR-2477A/HBN
39	Coin	3	1000	8.0	0.03	P030-ND	3.68	33.08	147.00	—	257.25	BR-2477A/VAN
40	Coin	3	1000	8.0	0.03	P228-ND	3.68	33.08	147.00	—	257.25	BR-2477A/GAN

† Insulator (Yellow) § See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Computer, Camera, Standard, Standard Coin and Pin Types

Type	(V)	Capacity (mAh)	Dimensions (mm) Diameter x Height	Weight§ (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing 1	10	12	50	100	Panasonic Part No.
						Computer-Type						
Pack	6	1200	33.9 x 19.5 x 36.0†	31.0	2.5	P204-ND	13.50	121.50	—	540.00	—	BR-P2PE
Pack with 6.8kΩ resistor	6	1200	39.0 x 22.0 x 41.0†	45.0	—	P203-ND	16.55	148.95	—	662.00	1158.50	BR-E3C3BCA
						Camera-Type						
Cylindrical (Bulk pkg.)	3	850	15.6 x 27.0	11.0	20	P157-ND	2.88	25.88	—	115.00	201.25	CR-2
Cylindrical (Retail pkg.)	3	850	15.6 x 27.0	11.0	20	P155-ND	6.90	—	66.24	—	—	CR-2PA/1BOEM
Cylindrical (Bulk pkg.)	3	1550	17.0 x 34.5	17.0	20	P151-ND	2.63	23.63	—	105.00	183.75	CR-123A
Cylindrical (Retail pkg.)	3	1550	17.0 x 34.5	17.0	20	P154-ND	6.90	—	66.24	—	—	CR-123APA/1B
Pack (Bulk pkg.)	3	3300	28.4 x 14.4 x 52.0†	39.0	200	P063-ND	10.63	95.63		425.00	743.75	CR-V3P/B
Pack (Retail pkg.)	3	3000	28.4 x 14.4 x 52.0†	39.0	200	P212-ND	13.75	—	132.00	—	—	CR-V3A/1BOEM
Pack (Bulk pkg.)	6	1400	35.0 x 19.5 x 36.0†	37.0	20	P099-ND	7.63	68.63	—	305.00	533.75	CR-P2PA/B
Pack (Retail pkg.)	6	1400	35.0 x 19.5 x 36.0†	37.0	20	P205-ND	12.30	—	118.08	—	—	CR-P2PA/1BOEM
Pack (Bulk pkg.)	6	1400	34.0 x 17.0 x 45.0†	38.0	20	P127-ND	6.63	59.63	—	265.00	463.75	2CR-5MPA/B
Pack (Retail pkg.)	6	1400	34.0 x 17.0 x 45.0†	38.0	20	P073-ND	12.30	—	118.08	—	—	2CR-5MPA/1BOEM
						Standard Type						
A	3	2200	17.0 x 45.5	13.5	2.5	P362-ND	11.30	101.70	—	542.40	791.00	BR-AG
A with Tabs	3	2200	17.0 x 45.5	13.5	2.5	P362T-ND	11.97	107.75	—	478.90	838.08	BR-AGT
A	3	1800	17.0 x 45.5	18.0	2.5	P267-ND	9.55	85.95	—	382.00	668.50	BR-A
A with Tabs	3	1800	17.0 x 45.5	18.0	2.5	P267T-ND	10.22	92.00	—	408.90	715.58	BR-AT
1/2 AA with 2 PCB Pins	3	1000	14.5 x 25.5	8.0	2.5	P631-ND	5.00	45.00	—	200.00	—	BR-1/2AAE5PE
1/2 AA with 3 PCB Pins	3	1000	14.5 x 25.5	8.0	2.5	P630-ND	5.00	45.00	—	200.00	—	BR-1/2AAE2PE
2/3 A	3	1450	17.0 x 33.5	13.5	2.5	P361-ND	5.35	48.15	—	—	374.50	BR-2/3AG
2/3 A with Tabs	3	1450	17.0 x 33.5	13.5	2.5	P361T-ND	6.02	54.20	—	240.90	421.58	BR-2/3AGT
2/3 A	3	1200	17.0 x 33.5	13.5	2.5	P133-ND	4.70	42.30	—	—	329.00	BR-2/3A
2/3 A with Tabs	3	1200	17.0 x 33.5	13.5	2.5	P201-ND	5.63	50.63	—	225.00	393.75	BR-2/3AT2SP
2/3 A with 2 PCB Pins	3	1200	17.0 x 33.5	13.5	2.5	P226-ND	5.63	50.63	—	225.00	393.75	BR-2/3AE5SP
2/3 A with 3 PCB Pins	3	1200	17.0 x 33.5	13.5	2.5	P270-ND	5.63	50.63	—	225.00	393.75	BR-2/3AE2SP
						Standard Coin Type						
Coin	3	35	12.5 x 2.0	0.7	0.03	P342-ND	1.30	11.70	—	52.00	91.00	BR-1220
	3	48	12.5 x 2.5	0.8	0.03	P183-ND	1.23	11.03	—	49.00	85.75	BR-1225
	3	190	20.0 x 3.2	2.5	0.03	P186-ND	1.15	10.35	—	46.00	80.50	BR-2032
	3	165	23.0 x 2.5	3.2	0.03	P135-ND	1.43	12.83	—	57.00	99.75	BR-2325
	3	255	23.0 x 3.0	3.2	0.03	P187-ND	1.83	16.43	—	73.00	127.75	BR-2330
	3	500	30.0 x 3.2	5.5	0.03	P341-ND	2.75	24.75	—	110.00	192.50	BR-3032
	3	30	10.0 x 2.5	0.7	0.1	P031-ND	1.08	9.68	—	43.00	75.25	CR1025
	3	25	12.5 x 1.6	0.7	0.1	P032-ND	1.08	9.68	—	43.00	75.25	CR1216
	3	35	12.5 x 2.0	1.2	0.1	P033-ND	.95	8.55	—	38.00	66.50	CR1220
	3	40	16.0 x1.2	0.8	0.1	P041-ND	2.70	24.30	—	108.00	189.00	CR1612
	3	55	16.0 x 1.6	1.2	0.1	P034-ND	.63	5.63	—	25.00	43.75	CR1616
	3	75	16.0 x 2.0	1.3	0.1	P035-ND	.93	8.33	—	37.00	64.75	CR1620
	3	125	16.0 x 3.2	1.8	0.1	P036-ND	1.08	9.68	—	43.00	75.25	CR1632
	3	55	20.0 x 1.2	1.4	0.1	P037-ND	1.20	10.80	—	48.00	84.00	CR2012
	3	90	20.0 x 1.6	1.7	0.1	P138-ND	.30	2.70	—	12.00	21.00	CR2016
	3	165	20.0 x 2.5	2.5	0.2	P188-ND	.30	2.70	—	12.00	21.00	CR2025
	3	225	20.0 x 3.2	3.1	0.2	P189-ND	.28	2.48	—	11.00	19.25	CR2032
	3	265	23.0 x 3.0	4.0	0.2	P111-ND	1.43	12.83	—	57.00	99.75	CR2330
	3	560	23.0 x 5.4	5.9	0.2	P117-ND	1.63	14.63	—	65.00	113.75	CR2354
	3	100	24.5 x 1.2	2.0	0.2	P042-ND	3.10	27.90	—	124.00	217.00	CR2412
	3	620	24.5 x 5.0	6.3	0.2	P340-ND	1.13	10.13	—	45.00	—	CR2450
	3	1000	24.5 x 7.7	10.5	0.2	P120-ND	2.85	25.65	—	114.00	199.50	CR2477
	3	500	30.0 x 3.2	7.1	0.2	P121-ND	2.45	22.05	—	98.00	171.50	CR3032
						Pin Type						
Pin	3	25	4.2 x 25.9	0.55	0.5	P140-ND	3.25	29.25	—	130.00	227.50	BR425/BN
	3	50	4.2 x 35.9	0.85	1.0	P139-ND	3.28	29.48	—	131.00	229.25	BR435

§ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required. † Dimensions L x W x H

Panasonic Manganese Lithium Rechargeable Batteries (ML Series)

Features:

- **Charging at voltage levels even under 3V**. In order to support the current trend in ICs toward lower voltages, these batteries can be charged at a 3 ±0.2 voltage level, and this makes it easier to set the charging circuits for the circuits which employ 3V ICs.
- **Large capacity for hour-after-hour back-up.**
- **Excellent withstand voltage characteristics.** These batteries can withstand the application of a continuous 3.2V voltage at a high temperature of 60°C (140°F).

Applications:

- Power source for backing up memory data in mobile telephones, personal handyphone systems, memory cards, pagers, data terminals and office automation equipment.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig. 1

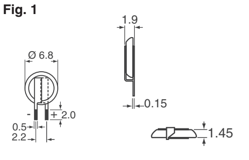

Fig. 2

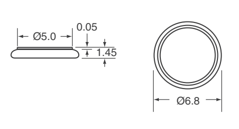

Fig. 3

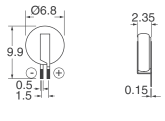

Fig. 4

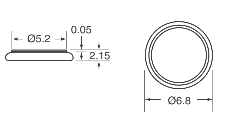

Fig. 5

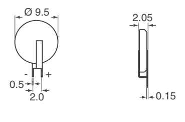

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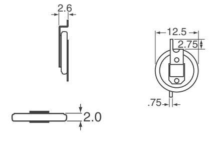

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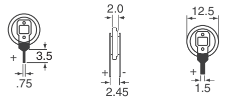

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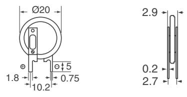

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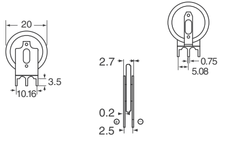

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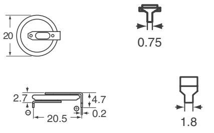

Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm)		Weight (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
				Dia.	Height				1	10	50	100	
1	Coin	3	3.4	6.8	1.45	0.17	0.010	P297-ND	2.03	18.23	81.00	141.75	ML-614S/FN
2	Coin	3	3.4	6.8	1.4	0.16	0.010	P006-ND	1.78	15.98	71.00	124.25	ML-614S/ZTN
3	Coin	3	5.0	6.8	2.05	0.30	0.010	P044-ND	2.03	18.23	81.00	141.75	ML-621S/DN
4	Coin	3	5.0	6.8	2.1	0.23	0.010	P007-ND	1.78	15.98	71.00	124.25	ML-621S/ZTN
5	Coin	3	11.0	9.5	2.05	0.50	0.030	P296-ND	2.25	20.25	90.00	157.50	ML-920S/DN
6	Coin	3	17.0	12.5	2.0	0.80	0.030	P295-ND	2.38	21.38	95.00	166.25	ML1220/F1A
7	Coin	3	17.0	12.5	2.0	0.80	0.030	P294-ND	2.38	21.38	95.00	166.25	ML-1220/V1AN
8	Coin	3	45.0	20	2.0	2.20	0.100	P045-ND	2.68	24.08	107.00	187.25	ML-2020/V1AN
9	Coin	3	45.0	20	2.0	2.20	0.100	P046-ND	2.68	24.08	107.00	187.25	ML-2020/G1AN
10	Coin	3	45.0	20	2.0	2.20	0.100	P047-ND	2.68	24.08	—	187.25	ML-2020/H1CN

Vanadium Pentoxide Lithium Rechargeable Batteries

Features: • One high-voltage battery to serve your back up needs. This single, compactly designed, cost-effective 3V battery does the work of three 1.2V Ni-Cd or two capacitors. • Months of continuous use as a backup. The VL3032 has a nominal electrical capacity of 100mAh which translates into 10,000 hours with a microprocessor load of 10 µA.

Applications: • **Memory Backup:** Facsimiles, ECRs, telephones, typewriters, sequencers, VTRs, video cameras, personal computers, memory cards, tuners.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig. 1

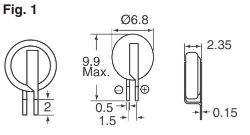

Fig. 2

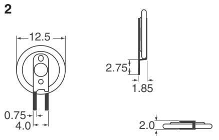

Fig. 3

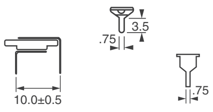

Fig. 4

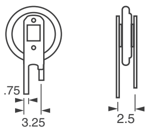

Fig. 5

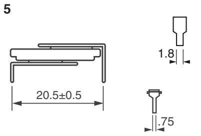

Fig. 6

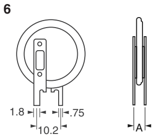

Fig. 7

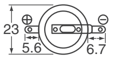

Fig. 8

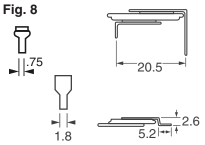

Fig. 9

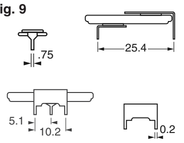

Fig. 10

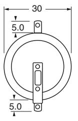

Fig. 11

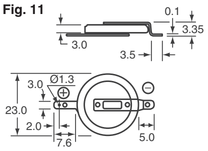

Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm)			Weight (g)	Drain Standard (mA)	Charge Current 3.4 ± 0.15V	Digi-Key Part No.	Pricing				Panasonic Part No.
				Dia.	Height	A					1	10	50	100	
1	Coin	3	1.5	6.8	2.05	—	0.3	0.01	<0.2mA	P048-ND	4.43	39.83	177.00	309.75	VL-621/DN
2	Coin	3	5	12.5	2.0	—	0.7	0.03	<0.5mA	P219-ND	3.75	33.75	—	750.00/250	VL1216-1F5U
3	Coin	3	7	12.5	2.0	—	0.8	0.03	<0.5mA	P079-ND	4.45	40.05	178.00	373.80/120	VL-1220/HFN
4	Coin	3	7	12.5	2.0	—	0.8	0.03	<0.5mA	P080-ND	4.45	40.05	178.00	311.50	VL-1220/VCN
5	Coin	3	20	20.0	2.0	—	2.2	0.07	<1.5mA	P081-ND	4.75	42.75	228.00/60	332.50	VL-2020/HFN
6	Coin	3	20	20.0	2.0	2.7	2.2	0.07	<1.5mA	P082-ND	4.75	42.75	190.00	399.00/120	VL-2020/VCN
7	Coin	3	30	23.0	2.0	—	2.8	0.10	<2.0mA	P221-ND	5.85	52.65	234.00	491.40/120	VL-2320/F2N
8	Coin	3	30	23.0	2.0	—	2.8	0.10	<2.0mA	P083-ND	5.85	52.65	280.80/60	409.50	VL-2320/HFN
6	Coin	3	30	23.0	2.0	2.7	2.8	0.10	<2.0mA	P084-ND	5.85	52.65	234.00	409.50	VL-2320/VCN
8	Coin	3	50	23.0	3.0	—	3.7	0.10	<2.0mA	P085-ND	7.38	66.38	354.00/60	516.25	VL-2330/HFN
6	Coin	3	50	23.0	3.0	3.7	3.7	0.10	<2.0mA	P086-ND	7.38	66.38	295.00	516.25	VL-2330/VCN
9	Coin	3	100	30.0	3.2	—	6.3	0.20	<4.0mA	P087-ND	9.00	81.00	360.00	630.00	VL-3032/GUFN
10	Coin	3	100	30.0	3.2	—	6.3	0.20	<4.0mA	P088-ND	9.00	81.00	360.00	630.00	VL-3032/F2N
11	Coin	3	50	23	3.0	—	3.5	0.10	<2.0mA	P002-ND	7.38	66.38	295.00	516.25	VL-2330/F3N

Due to possible restrictions, a change in shipping method may be required.

Niobium Titanium Lithium Rechargeable Battery

Features: Designed for very low voltage ICs. Nominal voltage is 2.0 volts. These can be charged and discharged at temperatures as high as 60°C (140°F). Charging voltage is 2.5 volts. **Applications:** Power source for backing up memory data in cellular phones, PDA (personal digital assistants), portable communication devices and other handheld applications.

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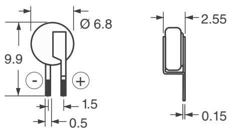

Type	Voltage (V)	Capacity (mAh)	Dimensions (mm)		Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Price Each			Panasonic Part No.
			Diameter	Height				1	10	400	
Coin	2.0	4.0	6.8	2.55	0.25	0.01	P009-ND	2.15	1.94	1.38	NBL-621/DN

CYMBET CORPORATION EnerChip™

The Cymbet EnerChip™ family of solid-state, rechargeable thin-film batteries is a new innovation in energy management and energy storage. It is well suited for applications where battery backup power is needed to maintain the settings of microcontroller memories, real-time-clocks and SRAM during power loss or power failures.

CBC-EVAL-08: The evaluation kit combines a solar panel energy transducer with the EnerChip EH CBC5300 energy harvesting module that has two 50µAh EnerChip batteries. The EnerChips provide storage and starting power for the energy harvesting module. The purpose of this demonstration platform is to enable designers to quickly develop energy harvesting applications.

CBC5300-24C: The EnerChip EH CBC5300 is a self contained energy harvesting power module in a 24-pin DIP configuration with two 50µAh EnerChips. It is designed to accept a range of energy transducer inputs, store the harvested power, and deliver managed power to the target system. The CBC5300 enables system designers to quickly release energy harvesting based products.

CBC-EVAL-05: The evaluation kit is used to demonstrate the capabilities of the EnerChip thin film batteries and the EnerChip CC with integrated battery management capabilities. The kit can be used to demonstrate: • EnerChip battery • EnerChip CC device • EnerChip CC in parallel with the other EnerChip battery.

CBC-EVAL-11: The demonstration kit combines an inductive transmitter board with a receiver board containing an EnerChip CC CBC3150 solid state storage device with integrated power management. The receiver board also has a planar antenna for receiving power from the transmitter board, an output capacitor for delivering pulse current for radio transmissions, and a header connector for mating to a target board.

CBC3150-D9C-TR1: The EnerChip CC CBC3150 is a 20-pin DFN package with integrated 50µAh thin film battery, providing battery backup and power management for systems requiring power bridging and/or secondary power.

CBC050-M8C-TR1: The EnerChip CBC050 is a surface-mount, solid state, rechargeable battery in a 16-pin QFN package, rated for 50µAh at 3.8V. It is ideal as a localized on-board power source when standby power is required to retain time or data.

CBC3112-D7C-TR1: The EnerChip CC CBC3112 is a 20-pin DFN package with integrated 12µAh thin film battery, providing battery backup and power management for systems requiring power bridging and/or secondary power.

CBC012-D5C-TR1: The EnerChip CBC012 is a surface-mount, solid state, thin film rechargeable battery in a 6-pin DFN package, rated for 12µAh at 3.8V. It is ideal as a localized on-board power source when standby power is required to retain time or data.

Applications: • Standby supply • Wireless sensors and RFID tags • Localized power source • Power bridging • Consumer appliances • Business and industrial systems • Energy Harvesting

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Fig. 1

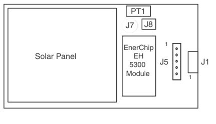

Fig. 2

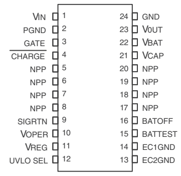

24-Pin DIP Module

Fig.	Description	Dimensions in Inches (mm)			Digi-Key Part No.	Price Each			Cymbet Part No.
		Length	Width	Height		1	10	25	
1	EH Solar Energy Harvest Evaluation Kit	3.55 (90.17)	2 (50.80)	—	859-1002-ND◆	119.95	117.95	115.95	CBC-EVAL-08
2	EH Harvesting Module	1.2 (30.48)	0.7 (17.18)	0.9 (5.00)	859-1000-5-ND‡	35.95	31.95	28.95	CBC5300-24C
	CC Evaluation Kit	1.2 (30.48)	0.7 (17.18)	0.9 (5.00)	859-1001-ND	29.95	28.95	27.95	CBC-EVAL-05
—	Inductive Charging Evaluation Kit	—	—	—	859-1003-ND◆ ***NEW!***	49.95	47.95	45.95	CBC-EVAL-11

◆ ***RoHS Compliant*** ‡ Tube

Output Voltage (V)	Capacity (µAh)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing†	Cymbet Part No.
				1	10	25	1,000	
NEW! Solid State EnerChip IC Batteries — RoHS Compliant NEW!								
3.3	50	20-DFN	859-1008-1-ND	4.73	4.33	4.00	3340.01	CBC3150-D9C-TR1
3.8	50	16-QFN	859-1009-1-ND	3.82	3.50	3.23	2710.01	CBC050-M8C-TR1
3.3	12	20-DFN	859-1010-1-ND	2.91	2.67	2.46	2080.01	CBC3112-D7C-TR1
3.8	12	6-DFN	859-1011-1-ND	2.00	1.83	1.69	1440.00	CBC012-D5C-TR1

† For Tape and Reel part number, change 1-ND to 2-ND.

SII Seiko Instruments Inc. Manganese Silicon Lithium Rechargeable Batteries

Dimensions in mm

MS Series batteries use a silicon oxide anode and lithium manganese composite oxide cathode. As a result, they offer a longer cycle life and highly stable over-discharge characteristics.

Features: • Large discharge capacity • Long cycle life

Operating Temperature: -20°C ~ 60°C

Applications: • Backup power supply for memory or clock in various types of electronic equipment such as cellular phones, cordless phones, PHS, pagers, memory-cards, FAX machines, personal computers, PDA, video cameras, digital cameras, tuners and handy terminals • Combined use with solar cells • Main power source for small and slim portable equipment

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Fig. 1

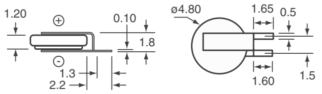

Fig. 2

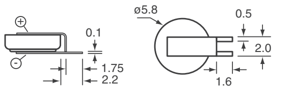

Fig. 3

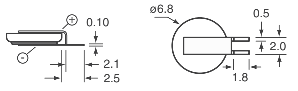

Fig. 4

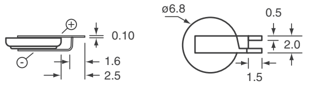

Fig. 5

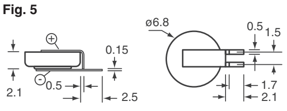

Fig. 6

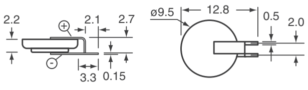

Fig.	Type	Nominal Voltage (V)	Nominal Capacity (mAh)	Internal Impedance (Ω)	Standard Charge/Discharge Current (mA)	Maximum Discharge Current (continuous) (mA)	Cycle Life		Standard Charge Voltage (V)	Weight (g)	Digi-Key Part No.	Pricing			Seiko Instruments Part No.
							100% D.O.D	20% D.O.D				1	10	Pkg.	
1	MS412FE	3.0	1.0	100	0.010	0.10	100	1000	3.1	0.07	728-1053-ND	1.55	13.95	248.00/200	MS412FE-FL26E
2	MS518SE	3.0	3.4	60	0.010	0.15	100	1000	3.1	0.13	728-1054-ND	1.70	15.30	136.00/100	MS518SE-FL35E
3	MS614SE	3.0	3.4	80	0.015	0.25	100	1000	3.1	0.17	728-1055-ND	1.70	15.30	136.00/100	MS614SE-FL28E
4	MS614SE	3.0	3.4	80	0.015	0.25	100	1000	3.1	0.17	728-1056-ND	1.70	15.30	136.00/100	MS614SE-FL29E
5	MS621FE	3.0	5.5	80	0.015	0.25	100	1000	3.1	0.23	728-1057-ND	1.75	15.75	140.00/100	MS621FE-FL11E
6	MS920SE	3.0	11.0	35	0.050	0.80	100	1000	3.1	0.47	728-1058-ND	2.05	18.45	164.00/100	MS920SE-FL27E

Lithium Rechargeable Batteries

The HB Series features high capacity and long cycle life with a wide charging voltage range, which is most suitable for backup use of real time clock and SRAM etc.

Features: • Pb-free reflowable • Superior heat resistance (260°C peak) allows reflow soldering by Pb-free solder • Wide range of charging voltages • High capacity • Long cycle life • Excellent over-discharge characteristics

Operating Temperature: -20°C ~ 60°C

Applications: • Power supply backup use for cellular phones, wireless phones, digital still cameras, PHS, PDA and MD players

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Dimensions in mm

Fig. 1

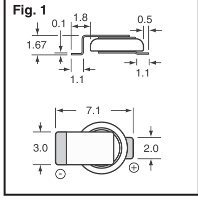

Fig. 2

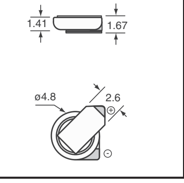

Fig. 3

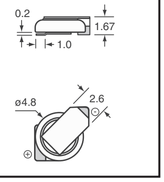

Fig.	Type	Nominal Voltage	Charge Voltage	Nominal Capacity (mAh) (Voltage Range)	Internal Impedance	Standard Charge/Discharge Current	Cycle Life		Weight	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Seiko Instruments Part No.
							10% D.O.D	100% D.O.D			1	10	100		Qty.	Pricing	
1	HB414	3.0V	2.5V ~ 3.5V	0.3 (3.0 ~ 1.2)	280Ω	0.005mA	1000	100	0.07g	728-1040-1-ND	2.28	1.90	1.52	728-1040-2-ND	3,600	1064.00/M	HB414-II06E
2	HB414	3.0V	2.5V ~ 3.5V	0.2 (2.5 ~ 1.2)	280Ω	0.005mA	1000	100	0.07g	728-1041-1-ND	2.19	1.83	1.46	728-1041-2-ND	4,000	1022.00/M	HB414-IV01E
3	HB414	3.0V	2.5V ~ 3.5V	0.14 (3.0 ~ 2.0)	280Ω	0.005mA	1000	100	0.07g	728-1042-1-ND	2.28	1.90	1.52	728-1042-2-ND	3,600	1064.00/M	HB414-IV02E

TADIRAN Lithium Batteries — Lithium Batteries

Lithium Thionyl Chloride (Li/SOCl$_2$) Cell: Non-Rechargeable

Tadiran Lithium Thionyl Chloride cells offer enduring quality. They are a superior power source, combining the highest energy density and voltage, longest service life, lowest self-discharge, plus the widest temperature range of any battery commercially available. These cells are ideally suited to provide long lasting power solutions for critical applications, including high tech electronics, military, consumer appliances, even state-of-the-art wireless communications. Tadiran batteries last by far longer than conventional cells, making them ideal for remote, portable, or seldom used equipment.

TL-51XX MBU Series: • Very low self discharge rate • Suited for long-term operation at low current levels with long stands • Intermittent discharge with medium current level, provided that the average current exceeds the active current level

TL-2XXX XTRA™ Series: • Excellent shelf life (10 years) • Very low self-discharge • Major improvement of voltage delay at the start of discharge at medium current levels (TMV) • Intermittent discharge at medium current levels

TL-59XX XTRA™ High Capacity Series: • High capacity batteries for long term applications at low currents • For use in wireless sensors, utility meters, RFID tags, toll tags for toll road pricing, etc.

TLM-15XXMP and TLM-15XXHP Series: • These two families, High Power and Medium Power, are specifically designed for applications requiring high power, long life and extended storage.

TLH-XXXX Extended Temperature Series: • For Operation at Temperatures up to 125°C **Applications:** The following list represents actual applications where Tadiran Lithium cells and batteries are already being used as a main or backup source of energy: • Utility meters and A.M.R. equipment • PC computers and data loggers • CMOS memory and RTC backup • Toll tags and RFID transponders • Programmable logic controllers • Wireless alarm sensors • Sea buoys and remote monitoring systems • Military and Aerospace systems • Automatic External Defibrillators • Communications Systems • Telematics **UL Approval:** Tadiran Lithium Thionyl Chloride cells and batteries are UL recognized. UL File No. MH12193

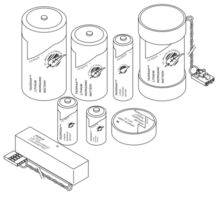

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Dimensions in mm

Fig. 1 — Standard

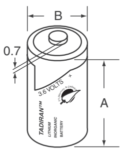

Fig. 2 — Axial Pins

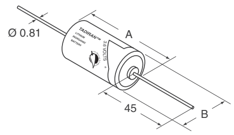

Fig. 3 — Solder Tabs

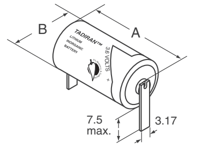

Fig. 4

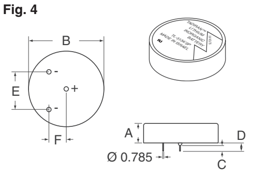

Fig. 5

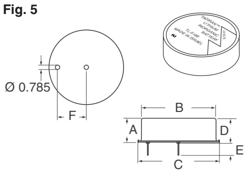

Fig. 6

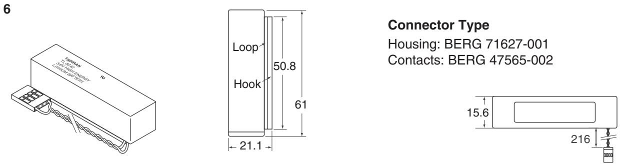

Connector Type
Housing: BERG 71627-001
Contacts: BERG 47565-002

Fig. 7

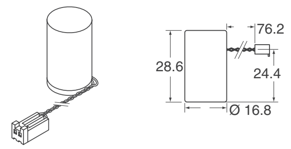

Connector Type
IDC 1308-102-426

Fig.	Series	Type	Nom. (V)	Nominal Capacity (mAh)	Dimensions (mm) A	B	C	D	E	F	Weight* (g)	Nominal Discharge Current (mA)	Digi-Key Part No.	Pricing 1	10	Carton	Tadiran Part No.
1	High Power	1/2AA	4	135	19.7	15.1	—	—	—	—	7.9	12	439-1046-ND	22.00	203.50	4785.00/300	TLM-1520HP/S
	High Power	1/2AA	4	200	19.7	15.1	—	—	—	—	8.0	12	439-1047-ND	20.00	185.00	4800.00/300	TLM-1520MP/S
3	High Power	AA with Tab	4	800	50.5	14.8	—	—	—	—	20	50	439-1043-ND	26.50	245.13	5763.75/300	TLM-1550MP/Z2/T
1	MBU	1/2AA	3.6	950	25.2	14.5	—	—	—	—	9	0.5	439-1002-ND	4.72	43.66	1711.00/500	TL-5101/S
	MBU	AA	3.6	2,100	50.5	14.5	—	—	—	—	17.4	2.0	439-1012-ND	5.78	53.47	1387.20/300	TL-5104/S
2	MBU	1/2AA with Leads	3.6	950	25.2	14.5	—	—	—	—	9	0.5	439-1003-ND	5.04	46.62	1209.60/300	TL-5101/P
	MBU	AA with Leads	3.6	2,100	50.5	14.5	—	—	—	—	17.4	2.0	439-1013-ND	6.10	56.43	1220.00/250	TL-5104/P
4	MBU	1/10D	3.6	1,000	6.5	32.9	2	3.2	15.24	7.62	16.8	0.5	439-1023-ND	7.38	68.27	1771.20/300	TL-5134/P
	MBU	1/6D	3.6	1,700	10.2	32.9	2	3.2	15.24	7.62	21.5	0.5	439-1024-ND	9.76	90.28	1873.92/240	TL-5135/P
5	MBU	BEL	3.6	400	6.75	18.5	22.5	7.5	4.2	7.62	5.3	0.3	439-1025-ND	5.04	46.62	1827.00/500	TL-5186
1	XTRA™	1/2AA	3.6	1,000	25.2	14.5	—	—	—	—	9	1.0	439-1000-ND	4.94	45.70	1790.75/500	TL-2150/S
	XTRA™	AA	3.6	2,100	50.5	14.5	—	—	—	—	17.4	2.0	439-1010-ND	6.10	56.43	1464.00/300	TL-2100/S
2	XTRA™	1/2AA with Leads	3.6	1,000	25.2	14.5	—	—	—	—	9	1.0	439-1001-ND	5.26	48.66	1262.40/300	TL-2150/P
	XTRA™	AA with Leads	3.6	2,100	50.5	14.5	—	—	—	—	17.4	2.0	439-1011-ND	6.40	59.20	1280.00/250	TL-2100/P
1	XTRA™ High Capacity	1/2AA	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1004-ND	5.78	53.47	2095.25/500	TL-5902/S
	XTRA™ High Capacity	2/3AA	3.6	1,650	33.5	14.5	—	—	—	—	11.8	1.3	439-1007-ND	6.52	60.31	2363.50/500	TL-5955/S
	XTRA™ High Capacity	AA	3.6	2,400	50.5	14.5	—	—	—	—	17.6	2.0	439-1014-ND	7.24	66.97	1737.60/300	TL-5903/S
2	XTRA™ High Capacity	1/2AA with Leads	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1005-ND	6.10	56.43	1464.00/300	TL-5902/P
	XTRA™ High Capacity	2/3AA with Leads	3.6	1,650	33.5	14.5	—	—	—	—	11.8	1.3	439-1008-ND	6.82	63.09	1364.00/250	TL-5955/P
	XTRA™ High Capacity	AA with Leads	3.6	2,400	50.5	14.5	—	—	—	—	17.6	2.0	439-1015-ND	7.56	69.93	1512.00/250	TL-5903/P
3	XTRA™ High Capacity	1/2AA with Tabs	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1006-ND	6.10	56.43	488.00/100	TL-5902/T
	XTRA™ High Capacity	2/3AA with Tabs	3.6	1,650	33.5	14.5	—	—	—	—	11.8	1.3	439-1009-ND	6.82	63.09	2472.25/500	TL-5955/T
	XTRA™ High Capacity	AA with Tabs	3.6	2,400	50.5	14.5	—	—	—	—	17.6	2.0	439-1016-ND	7.56	69.93	1814.40/300	TL-5903/T
1	Extended Temperature	1/2AA	3.6	900	25.2	14.5	—	—	—	—	9.6	1.0	439-1030-ND	6.96	64.38	2523.00/500	TLH-5902/S
	Extended Temperature	2/3AA	3.6	1,400	33.5	14.5	—	—	—	—	12.5	1.3	439-1032-ND	7.86	72.71	2849.25/500	TLH-5955/S
	Extended Temperature	AA	3.6	2,000	50.5	14.5	—	—	—	—	18	1.0	439-1034-ND	8.74	80.85	2097.60/300	TLH-5903/S
2	Extended Temperature	1/2AA with Leads	3.6	900	25.2	14.5	—	—	—	—	9.6	1.0	439-1031-ND	7.28	67.34	1747.20/300	TLH-5902/P
	Extended Temperature	2/3AA with Leads	3.6	1,400	33.5	14.5	—	—	—	—	12.5	1.3	439-1033-ND	8.18	75.67	1636.00/250	TLH-5955/P
	Extended Temperature	AA with Leads	3.6	2,000	50.5	14.5	—	—	—	—	18	1.0	439-1035-ND	9.06	83.81	1812.00/250	TLH-5903/P
4	iXtra Waffers	1/10D	3.6	1,000	6.5	32.9	3.4	2.7	15.24	7.62	16.3	1.0	439-1037-ND	9.36	86.58	2246.40/300	TLH-5934/P
	iXtra Waffers	1/6D	3.6	1,500	10.2	32.9	3.5	2.7	15.24	7.62	21	1.0	439-1038-ND	12.36	114.33	2373.12/240	TLH-5935/P
	iXtra Waffers	1/10D	3.6	1,000	6.5	32.9	3.4	2.7	15.24	7.62	16.3	1.0	439-1040-ND	8.12	75.11	1948.80/300	TL-5934/P
	iXtra Waffers	1/6D	3.6	1,700	10.2	32.9	3.5	2.7	15.24	7.62	21	1.0	439-1041-ND	10.74	99.35	2062.08/240	TL-5935/P
5	iXtra Waffers	2450	3.6	550	6.2	24	—	5.8	4.8	7.62	8.8	0.5	439-1036-ND	5.32	49.21	1702.40/400	TLH-2450/P
	iXtra Waffers	2450	3.6	550	6.2	24	—	5.8	4.8	7.62	8.8	0.5	439-1039-ND	4.20	38.85	1344.00/400	TL-2450/P
6	Standard Battery Packs with Connectors	MBU - AA	3.6	2,100	—	—	—	—	—	—	27	2.0	439-1026-ND	10.50	97.13	2520.00/300	TL-5242/W
7	Standard Battery Packs with Connectors	XTRA™ - 1/2AA	3.6	1,000	—	—	—	—	—	—	12.5	1.0	439-1027-ND	8.30	76.78	3429.98/570	TL-5276/W

* See “Ordering Information” for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Energizer® Instant Cell Phone Chargers

Energi To Go™

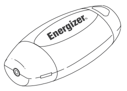

Includes 2 Energizer Lithium Batteries. (N602-ND)

Applications:
Cellphone charger for Backup, Travel and Emergency use.

Features:
• Reusable • Convenient • Portable

Fig. 1

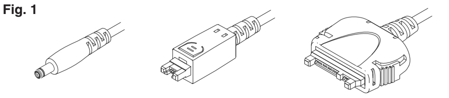

Fig. 2

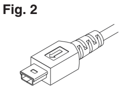

Fig. 3

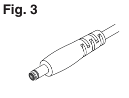

Fig. 4

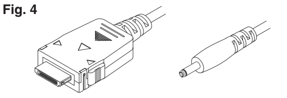

Fig.	Description	Digi-Key Part No.	Price Each	Energizer Part No
1	Charger plus 2 Lithium AA Batteries and 3 Motorola Connectors	N320-ND	29.98	CEL2MOT
2	Charger plus 2 Lithium AA Batteries and 1 Mini USB Connector	N321-ND	29.98	CEL2MUSB
3	Charger plus 2 Lithium AA Batteries and 1 Nokia Connector	N322-ND	29.98	CEL2NOK
4	Charger plus 2 Lithium AA Batteries and 1 Sprint and 1 Samsung Connector	N323-ND	29.98	CEL2SPR

Energizer® Industrial Alkaline, Silver Oxide and Zinc Air Batteries

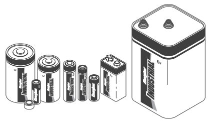

Energizer® Industrial Alkaline batteries contain the long-lasting power found in Energizer Max® alkaline batteries with a design enhanced for today's heavy current or continuous use applications. **Features:** • No mercury added • Excellent shelf life **Applications:** • Telemetry • Portable Communication • Cameras • Audio Devices • High-Powered Flashlights • Pagers • TV Remote Controls • Electronic Door Locks • Smoke Detectors and more

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions — Inch (mm)		Weight oz. (g)	Digi-Key Part No.	Pricing				Energizer Part No.
					Diameter	Height			1	10	72	100	
D	1.5	20,500	0.8	25mA	1.346 (34.2)	2.421 (61.5)	5.03 (141.9)	N105-ND	1.43	15.39/12	82.08	—	EN95
C	1.5	8,350	0.8	25mA	1.031 (26.2)	1.969 (50)	2.3 (66.2)	N106-ND	1.18	12.69/12	67.68	—	EN93
AA	1.5	2,779	0.8	25mA	0.571 (14.5)	1.988 (50.5)	0.8 (23)	N107-ND	.60	5.40	34.56	—	EN91
AAA	1.5	1,250	0.8	25mA	0.413 (10.5)	1.752 (44.5)	0.4 (11.5)	N146-ND	.60	5.40	34.56	—	EN92
AAAA	1.5	625	0.8	10mA	0.327 (8.3)	1.673 (42.5)	0.23 (6.5)	N148-ND‡	4.33	46.71/12	249.12	—	E96BP-2
N	1.5	1,000	0.8	25mA	0.472 (12)	1.189 (30.2)	0.3 (9)	N147-ND	.95	8.55	54.72	—	E90VP
9V	9.0	625	4.8	25mA	1.909 x 1.043 x 0.689	(48.5 x 26.5 x 17.5)	1.6 (45.6)	N145-ND	2.23	24.03/12	128.16	—	EN22
6V Lantern	6.0	18,000	3.2	25mA	2.685 (68.2)	4.063 (103.2)	23.5 (665)	N401-ND	12.00	129.60/12	576.00/60	—	EN529
D	Solder Tabbed Version of above							N105T-ND	2.10	18.88	—	146.83	EN95T
C	Solder Tabbed Version of above							N106T-ND	1.85	16.63	—	129.33	EN93T
AA	Solder Tabbed Version of above							N107T-ND	1.27	11.45	—	89.08	EN91T
Specialty Type — Small Electronics and Keyless Entry													
Cylinder	12	65	6.0	.48mA/20kΩ	0.406 (10.3)	1.122 (28.5)	0.26 (7.5)	N403-ND	1.03	9.23	59.04	—	A23CVP
Button	1.5	150	0.9	.17mA/7.5kΩ	0.457 (11.6)	0.213 (5.4)	0.08 (2.3)	N402-ND	.53	4.73	—	—	A76VP
Button	1.55	41	1.3	.103mA/15kΩ	0.311 (7.90)	0.142 (3.60)	0.023 (0.57)	N100-ND§	.80	7.20	—	56.00	392-384TS
Button	1.55	75	1.2	.155mA/10kΩ	0.311 (7.90)	0.213 (5.40)	0.04 (1.12)	N101-ND§	1.80	16.20	—	126.00	393
Button	1.55	195	1.3	.238mA/6.5kΩ	0.457 (11.6)	0.213 (5.40)	0.08 (2.3)	N102-ND§	1.40	12.60	—	98.00	357-303HVP
Button	1.55	120	1.3	.238mA/6.5kΩ	0.457 (11.6)	0.165 (4.20)	0.06 (1.7)	N108-ND§	1.40	12.60	—	98.00	386-301TS
Button	1.55	85	1.3	.103mA/15kΩ	0.457 (11.6)	0.120 (3.05)	0.048 (1.35)	N109-ND§	1.40	12.60	—	98.00	390-389TS
Button	1.55	26	1.3	.034mA/45kΩ	0.268 (6.80)	0.102 (2.60)	0.015 (0.42)	N110-ND§	.95	8.55	—	66.50	377-376TS
Button	1.55	32	1.3	.034mA/45kΩ	0.311 (7.90)	0.102 (2.60)	0.018 (0.5)	N111-ND§	1.08	9.68	—	75.25	397-396TS

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions — Inch (mm)		Weight oz. (g)	Digi-Key Part No.	Note: 1 Card contains 4 batteries Pricing			Energizer Part No.
					Diameter	Height			1 card	10 cards	100 cards	
Hearing Aid Batteries												
Button	1.4	91	0.9	.43mA/3kΩ	0.228 (5.80)	0.142 (3.60)	0.01 (0.32)	N115-ND†	4.60	41.40	322.00	AC10-4AP
Button	1.4	280	0.9	1.3mA/1kΩ	0.311 (7.90)	0.213 (5.40)	0.03 (0.8)	N116-ND†	4.60	41.40	322.00	AC13-4AP
Button	1.4	160	0.9	1.3mA/1kΩ	0.311 (7.90)	0.142 (3.60)	0.02 (0.5)	N117-ND†	4.60	41.40	322.00	AC312-4AP
Button	1.4	635	0.9	2.1mA/625Ω	0.457 (11.60)	0.213 (5.40)	0.1 (1.9)	N118-ND†	4.60	41.40	322.00	AC675-4AP

§ Silver Oxide † Zinc Air ‡ Package of two

Flashlights

Energizer® Industrial lighting products are built tough to bring safety and security to every job.

TUF2AAPE: • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 30 Foot Drop • Lifetime Pushbutton Switch **4250IND:** • Heavy Duty Rubber Flashlight • Impact Resistant • Krypton Bulb **ML3W2AAL / ML1W2AAE:** • Compact and Lightweight • Aluminum Body • Rubber Grip • Lifetime LED Lamp • Reduced Battery Consumption **MLT3W2AAL / MLT1W2AAL:** • High Strength Aluminum Case • Tail Switch for One-Handed Operation • Textured Grip • Lifetime LED Lamp • Reduced Battery Consumption **K220WB-E:** • Rugged, Impact Resistant Housing • Rubber Grip • Weatherproof • Floats • Krypton Bulb • Lanyard Included **PLED23AE:** • Strong, Lightweight Aluminum • Pocket Clip • Push Button Switch **HDL33A2:** • Multiple Position Pushbutton Switch • Swivel Adjustment • 2 White LEDs for Spot • 2 White LEDs for Flood • 4 White LEDs for Flood/Spot • 2 Red LEDs for Night Vision **TUF421PE:** • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 15 Foot Drop • Broad Beam • Hands-Free for Table or Bench Top Use • Four Nichia CS LEDs **FNL2BU1CS:** • Large Spring Clip Mounts on Many Surfaces • Lifetime LED Light Source • Flexible Neck • Slide Switch **INL2AAE:** • Waterproof • Three White LEDs • 30 Lumens • Bright Industrial Yellow Color • Survives a 2 Meter Drop • Reduced Battery Consumption • 20 Hour Run Time **INL2DE:** • Waterproof • One 1-Watt LED • 45 Lumens • Bright Industrial Yellow Color • Survives a 2 Meter Drop • Reduced Battery Consumption • 70 Hour Run Time **MS2AALED:** • Three White LEDs • 30 Lumens • Intrinsically Safe • Waterproof • Impact Resistant • Economical • 20 Hour Run Time **MS2DLED:** • 45 Lumens • Intrinsically Safe • Internationally Approved Orange Safety Color • Waterproof • Impact Resistant • 70 Hour Run Time **TUFHD31PH:** • White Cree® XRE LED • 100 Lumens • Versatile • Four Lighting Modes: High and Low White Beam, Red for Night Vision, Green for Pipe Inspection • Lens Diffuses Spot to Area Light • Durable • Comfortable **TUFSW21PH:** • White Cree® XRE LED • 75 Lumens • Head Rotates 125° • Survives a 20-Foot Drop • Weatherproof and Water Resistant • 4 Light Modes: Hi White Spot, Lo White Spot, Red Night-Vision, Green Inspection • Hands-Free **CAPW2BBP:** • Lifetime Lamp Life • 14 Lumens • Three Bright White LEDs • Pivots • Clips Easily to Hat Brim • Easy to Use **ELMCL11L:** • One Cree® XRE LED • 65 Lumens • High-Tech • Adjustable Brightness • Up to 16-Hour Run Time • Bright • Waterproof • Durable • Machined Aircraft Aluminum Casing **HTKC2BUCS:** • Bright • 12 Lumens • Auto Shut Off • Hi/Low/Signaling • Zinc Alloy Body **PLED34AE:** • One White LED • 10 Lumens • Bright • Long Lasting • Water Resistant • Durable **HDL1AAE:** • 60 Lumens • Adjustable Brightness 100% - 6% • 3 Light Modes-Spot, Variable Brightness, Red for Night Vision • Waterproof

Dimensions in Inches

Fig. 1

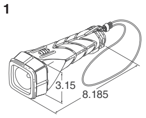

Fig. 2

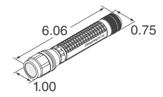

Fig. 3

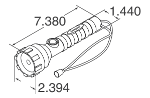

Fig. 4

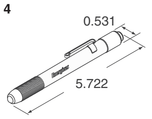

Fig. 5

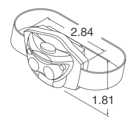

Fig. 6

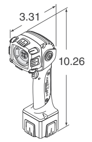

Fig. 7

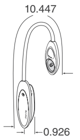

Fig. 8 *NEW!*

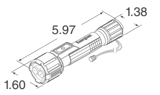

Fig. 9 *NEW!*

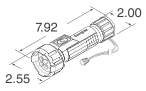

Fig.10 *NEW!*

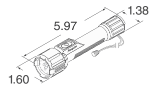

Fig. 11 *NEW!*

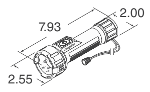

Fig. 12 *NEW!*

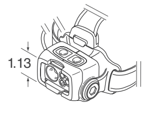

Fig. 13 *NEW!*

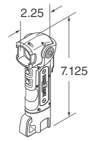

Fig. 14 *NEW!*

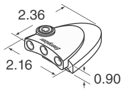

Fig. 15 *NEW!*

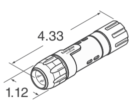

Fig. 16 *NEW!*

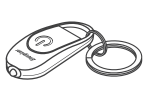

Fig. 17 *NEW!*

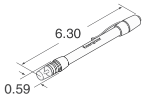

Fig. 18 *NEW!*

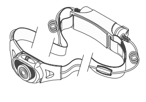

Fig.	Description	Power Source	Lamp Output	Weight Without Batteries oz. (g)	Digi-Key Part No.	Price Each	Energizer Part No.
1	3 LED Hard Case	2 AA‡	18 Lumens	4.1 (116)	N516-ND	24.00	TUF2AAPE
2	Metal 3 Watt LED	2 AA†	65 Lumens	3.79 (107)	N522-ND	46.76	ML3W2AAL
2	Metal 1 Watt LED	2 AA	45 Lumens	3.79 (107)	N523-ND	33.00	ML1W2AAE
3	Tactical Metal 3 Watt LED	2 AA†	65 Lumens	3.66 (103.7)	N524-ND	47.22	MLT3W2AAL
4	Contractor	2 AA‡	7 Lumens	4.0 (113)	N509-ND	7.98	K220WB-E
5	Pen Light	2 AAA‡	5.6 Candela	0.7 (19)	N515-ND	9.18	PLED23AEH
6	6 LED Head Beam	3 AAA‡	5.6 Candela	1.6 (46)	N512-ND	23.48	HDL33A2
7	Industrial Trim Flex LED	2-CR2032 Lithium Coin Cells‡	6 Lumens	1.128 (32)	N526-ND	9.74	FNL2BU1CS
8	Mid-Range Industrial LED	2AA	30 Lumens	2.32 (65.76)	N527-ND ***NEW!***	13.24	INL2AAE
9	Mid-Range Industrial LED	2D	45 Lumens	5.6 (159.0)	N528-ND ***NEW!***	18.22	INL2DE
10	Safety LED	2AA	30 Lumens	2.32 (65.76)	N529-ND ***NEW!***	17.08	MS2AALED
11	Safety LED	2D	45 Lumens	5.6 (158.76)	N530-ND ***NEW!***	30.18	MS2DLED
12	Hard Case Pro Headlight	3AA‡	100 Lumens	7.09 (200.90)	N531-ND ***NEW!***	42.56	TUFHD31PH
13	Hard Case Pro Swivel	2AA	75 Lumens	6.64 (188)	N532-ND ***NEW!***	52.74	TUFSW21PH
14	Cap Light LED	2-CR2032 Lithium Coin Cells‡	14 Lumens	0.83 (23.4)	N533-ND ***NEW!***	13.20	CAPW2BBP
15	Lithium Metal LED	1AA†	65 Lumens	2.93 (83.2)	N534-ND ***NEW!***	52.00	ELMCL11L
16	Hi-Tech Key Chain LED	2-CR2016 Lithium Coin Cells‡	14 Lumens	—	N535-ND ***NEW!***	10.78	HTKC2BUCS
17	Penlight LED	3-AAAA‡	10 Lumens	1.42 (40.2)	N536-ND ***NEW!***	17.44	PLED34AE
18	Headlight Micro LED	1AA‡	60 Lumens	3.17 (89.60)	N537-ND ***NEW!***	38.98	HDL1AAE

‡ Batteries included † Lithium Batteries recommended

Panasonic®

MADE IN U.S.A.

Industrial Alkaline Batteries

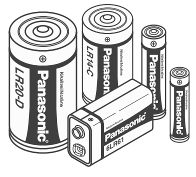

The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance, and caustic alkali for the electrolyte.

Features: • Large Current and Large Capacity for an Excellent Performance • Stable Voltage and Current • Unsurpassed Resistance to Leakage • Excellent Storage Life

Applications: 99% MERCURY FREE: • Headphone stereo, radio-cassette recorders, strobes, cameras, electronic calculators, 8 mm cameras, electric shavers, tape recorders, high-power flashlights, toys and other cordless products. Also available in tabbed versions denoted by "T" suffix in Digi-Key part number.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Dimensions – Inch (mm)		Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	(Regular Version) Pricing			Digi-Key Part No.	(Solder Tabbed Version) Pricing			Panasonic Part No.
		Diameter	Height				1	10	Carton		1	10	Carton	
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.42 (12)	65 hrs. (100Ω cont.)	P146-ND	.58	5.18	147.20/400	—	—	—	—	AM-4PAI/2SB
D	1.5	1.346 (34.2)	2.421 (61.5)	4.97 (141)	18,000 mAh	P643-ND	1.90	17.10	129.20/85	P643T-ND	2.57	23.15	180.08/100	LR20XWA/BB
C	1.5	1.031 (26.2)	1.696 (50.0)	2.47 (70)	6,800 mAh	P644-ND	1.20	10.80	134.40/160	P644T-ND	1.87	16.85	131.08/100	LR14XWA/B
AAA	1.5	0.413 (10.5)	1.713 (43.5)	0.38 (11)	1,125 mAh	P645-ND	.48	3.20	104.00/500	—	—	—	—	LR03XWA/B
AAA	1.5	0.413 (10.5)	1.713 (43.5)	0.38 (11)	1,125 mAh	P649-ND§	1.00/2	4.50	128.00/400	—	—	—	—	LR03XWA/2SB
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.8 (23)	3,125 mAh	P646-ND	.40	3.60	120.00/500	P646T-ND	1.29	8.58	278.85/500	LR6XWA/B
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.8 (23)	3,125 mAh	P648-ND§	1.00/2	4.50	134.40/420	—	—	—	—	LR6XWA/2SB
9V	9	1.90 x 1.04 x 0.69	(48.2 x 26.4 x 17.5)	1.6 (45)	520 mAh	P647-ND	2.37	15.80	273.74/198	—	—	—	—	6LR61XWA/1SB

* See "Ordering Information" for note on shipping charges on prepaid orders. § Two batteries in clear shrink wrap

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Panasonic®

NEW! Emergency Light

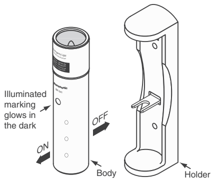
Illuminated marking glows in the dark
OFF
ON
Body
Holder

Emergency Light provides up to 18 hours of potentially life saving light from its powerful krypton bulb. A vital safety tool for Hospitals, Hotels, Schools, Office Buildings, Nursing Homes, and Government Buildings. Depending on generators or other back-up systems may not provide enough of the necessary light where it is needed during an emergency or severe weather situation. That's why this Emergency Light is such a valuable safety tool.

Features:
• Goes on automatically when removed from its holder • Illuminated marking makes the Emergency Light easy to find • Battery is disengaged during storage to avoid current consumption.
Specifications: • 2 X 1.5 size D / Batteries not included with flashlight.

Description	Power Source	Lamp Type	Lamp Output	Length Inch (mm)	Weight Without Batteries lbs. (g)	Digi-Key Part No.	Pricing		Panasonic Part No.
							1	10	
Emergency Flashlight	D (requires 2)	Krypton	700 Lumens	8.27 (210)	0.291 (132.00)	P651-ND	19.45	175.05	BF-541A/B

Panasonic®

Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: "DO NOT LEAK!!"
• High Quality & High Reliability: The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process. **• High Power Density:** These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output. **• Leak-resistant Structure:** The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, and can be used in any position. **• Long Service Life; Float or Cyclic:** The LCR battery has long life in float or cyclic service. **• Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water during the service life. Totally sealed, and needs only charging for maintenance. **• No Corrosive Gas Generation:** There is no corrosive gas generation during normal use. **• Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge. **• D.O.T and I.A.T.A. Approval:** Transportation; The SLA batteries should be handled as common cargoes for both air and boat shipping. **• U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval. (**UL Component Recognition does NOT remove this requirement for complete package testing**). The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Note: Recycling information available on Digi-Key website.

CROSS REFERENCE ABBREVIATIONS:

EP = Eagle-Picher
YU = Yuasa
PS = Power Sonic
PA = Panasonic

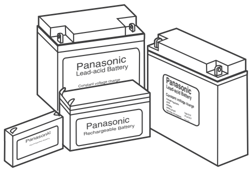

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing		Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see cross reference abbreviations)
						1	10		
6	1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (.30)	P128-ND	13.55	121.95	LC-R061R3P	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612
	3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (.62)	P166-ND	26.73	240.53	LC-R063R4P	EP: CF-6V3.4; YU: NP3-6; PS: PS-630
	4.5	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.59 (.72)	P141-ND	15.00	135.00	LC-R064R5P	EP: CF-6V4.5; YU: NP4-6; PS: PS-640
	7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	24.85	223.65	LC-R067R2P*	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	30.60	275.40	LC-R0612P*	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	30.60	275.40	LC-R0612P1*	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2
12	1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (.59)	P264-ND	28.45	256.05	LC-R121R3P	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212
	2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (.80)	P171-ND	33.05	297.45	LC-R122R2P	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220
	3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	39.42	350.40	LC-R123R4P	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	34.65	308.00	LC-R127R2P	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	34.65	308.00	LC-R127R2P1	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2
	12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	47.81	425.00	LC-RA1212P1	EP: CF-12V12; YU: NP12-12; PS: PS-12120
	17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	81.81	—	LC-RD1217P*	EP: CF-12V17; YU: NP18-12; PS: PS-12180
	20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	86.18	—	LC-X1220P	—
	28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	113.32	991.55	LC-X1228P	PA: LCXB1228P
	28	6.50 x 4.92 x 6.89 (165 x 125 x 175)	Threaded post	24.3 (11)	P629-ND	113.32	991.55	LC-X1228AP*	—
	33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	124.96	1093.40	LC-R1233P	EP: CF-12V33U1; PS: PS-12330; PA: LCR12V33

(V)	Cap. @ 10 Minute Rate (watt/cell)	Dimensions — Inch (mm) L x W x H	Terminal Type (Inch)	Weight lbs. (kg)	Digi-Key Part No.	Pricing		Panasonic Part No.	Panasonic Replacement Battery Cross Reference
						1	10		
Watt-Rated Series (Designed for UPS Back-up Systems)									
12	20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	29.55	265.95	UP-VW1220P1	—
	45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	38.03	338.00	UP-VW1245P1	PA; LC-R129P1, PA; LC-R129CH1

* See "Ordering Information" for note on shipping charges on prepaid orders.

Sealed Lead-Acid Batteries (Valve Regulated)

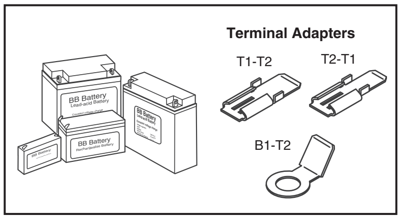

TECHNICAL FEATURES: “DO NOT LEAK!!”

- **Sealed Construction:** BB® unique construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. They are classified as “Non-Spillable” and meet all requirements of the International Air Transport Association (I.A.T.A.) and D.O.T.
- **Electrolyte Suspension System:** All BB batteries utilize an electrolyte suspension system consisting of a glass fiber separator material. This suspension system helps to achieve maximum service life, by fully retaining the electrolyte and preventing its escape from the separator material. No silica gels or other contaminants are used.
- **Maintenance Free Operation:** During the life of BB batteries, there is no need to check their specific gravity or add water etc. In fact, there are no provisions for such maintenance functions to be carried out.
- **Operation in any Orientation:** The combination of sealed construction and BB’s electrolyte suspension system permits operation of BB batteries in any orientation, but upside-down charging should be avoided. Battery will not lose its capacity, electrolyte, or service life under any orientation.
- **Low Pressure Venting System:** BB batteries are equipped with a safe, low pressure venting system, which is designed to release excess gas and reseal automatically in the event of the internal gas pressure rising to an unacceptable level. This low pressure venting system, coupled with the significantly high recombination efficiency, makes BB batteries one of the safest valve regulated lead acid batteries available.
- **Heavy Duty Grids:** The heavy duty lead calcium alloy grids in BB batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.

The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval.

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Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:
EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; CS = CSB; PA = Panasonic; UP = Universal Power

Terminal Adapters

Description	Digi-Key Part No.	Price Each	BB Part No.
0.187 Terminal ~ 0.250 Terminal	522-1019-ND	.50	T1-T2
0.250 Terminal ~ 0.187 Terminal	522-1020-ND	.50	T2-T1
Nut/Bolt Terminal ~ 0.250 Terminal	522-1021-ND	.50	B1-T2

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	BB Part No.	BB Replacement Battery Cross Reference (see above for mfg. abbreviations)
						BP Series — General Use				
6	1.2	3.82x0.98x2.01 (97x25x51)	.187 spade	0.66 (.30)	522-1000-ND	9.59	78.81	410.03/55	BP1.2-6-T1	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612; CS: GP612; PA: LC-R061R3P, LCR6V1.3P
	3.0	5.28x1.34x2.36 (134x34x60)	.187 spade	1.43 (.65)	522-1001-ND	10.35	—	153.18/18	BP3-6-T1	EP: CF-6V3.4; YU: NP3-6; PS: PS-630; CS: GP630; PA: LC-R063R4P, LCR6V3.4P
	5.0	2.76x1.89x4.02 (70x48x102)	.187 spade	2.09 (.95)	522-1002-ND	11.90	—	156.58/16	BP5-6-T1	EP: CF-6V4.5; YU: NP4-6; PS: PS-640; CS: GP645; PA: LC-R064R2P, LCR6V4P
	7.0	5.94x1.34x3.70 (151x34x94)	.187 spade	2.87 (1.3)	522-1003-ND	16.43	—	162.06/12	BP7-6-T1	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1; CS: GP672F1; PA: LC-R067R2P, LCR6V7.2P
	7.0	5.94x1.34x3.70 (151x34x94)	.250 spade	2.87 (1.3)	522-1004-ND	16.43	—	162.06/12	BP7-6-T2	EP: CF-6V7(C); YU: NP7-6(D); PS: PS-670F2; CS: GP672F2; PA: LC-R067R2P1, LCR6V7.2P1
	12.0	5.94x1.97x3.70 (151x50x94)	.187 spade	4.52 (2.05)	522-1005-ND	21.53	—	141.64/8	BP12-6-T1	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1; CS: GP6120F1; PA: LC-R0612P, LCR6V12P
	12.0	5.94x1.97x3.70 (151x50x94)	.250 spade	4.52 (2.05)	522-1006-ND	21.53	—	141.64/8	BP12-6-T2	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2; CS: GP6120F2; PA: LC-R0612P1, LCR6V12P1
	13.0	4.25x2.80x5.51 (108x71x140)	H connector	5.51 (2.5)	522-1029-ND	28.53	—	187.66/8	BP13-6-WH	—
12	1.2	3.82x1.77x2.09 (97x45x53)	.187 spade	1.30 (.59)	522-1007-ND	14.69	120.81	352.62/30	BP1.2-12-T1	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212; CS: GP1212; PA: LC-R121R3P, LCR12V1.3P
	2.3	7.01x1.34x2.36 (178x34x60)	.187 spade	2.07 (.94)	522-1008-ND	16.97	—	251.08/18	BP2.3-12-T1	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220; CS: GP1222; PA: LC-R122R2P, LCR12V2.2P
	3.0	5.28x2.64x2.36 (134x67x60)	.187 spade	2.87 (1.30)	522-1009-ND	20.54	—	168.91/10	BP3-12-T1	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230; CS: GP1234; PA: LC-R123R4P, LCR12V3.4P
	5.0	3.54x2.76x4.02 (90x70x102)	.187 spade	4.10 (1.86)	522-1022-ND	21.24	—	139.71/8	BP5-12-T1	EP: CF-12V4.5(A); YU: NP5-12(A); PS: PS-1250F1; CS: GP1245F1; PA: LC-R125P, LCR12V5P
	5.0	3.54x2.76x4.02 (90x70x102)	.250 spade	4.10 (1.86)	522-1010-ND	21.24	—	139.71/8	BP5-12-T2	EP: CF-12V4.5(C); YU: NP5-12(D); PS: PS-1250F2; CS: GP1245F2; PA: LC-R125P1, LCR12V5P1
	7.0	5.94x2.56x3.66 (151x65x93)	.187 spade	5.73 (2.60)	522-1011-ND	26.93	—	132.87/6	BP7-12-T1	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1; CS: GP1272F1; PA: LC-R127R2P, LCR12V7.2P
	7.0	5.94x2.56x3.66 (151x65x93)	.250 spade	5.73 (2.60)	522-1012-ND	26.93	—	132.87/6	BP7-12-T2	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2; CS: GP1272F2; PA: LC-R127R2P1, LCR12V7.2P1
	10	5.94x2.56x4.57 (151x65x116)	.250 spade	7.28 (3.3)	522-1030-ND	34.76	—	171.50/6	BP10-12-T2	UP: UB12100; PA: LCR12V10P; PS: PS-12100; YU: NP10-12; CS: GP12100
	12	5.94x3.86x3.70 (151x98x94)	.250 spade	8.89 (4.03)	522-1013-ND	39.51	—	129.94/4	BP12-12-T2	EP: CF-12V12; YU: NP12-12; PS: PS-12120; CS: GP12120; PA: LC-RA1212P1, LCR12V12PF
	17	7.13x2.99x6.54 (181x76x166)	nut/bolt	13.6 (6.15)	522-1014-ND	44.92	385.05	—	BP17-12-B1	EP: CF-12V17; YU: NP18-12; PS: PS-12180; CS: GP12170; PA: LC-RD1217P, LCR12V17
	20	7.13x2.99x6.54 (181x76x166)	nut/bolt	14.0 (6.35)	522-1026-ND	50.68	434.40	—	BP20-12-B1	CS: GP12200; PS: PSH-12180
	28	6.89x6.54x4.92 (175x166x125)	nut/bolt	21.2 (9.6)	522-1015-ND	67.52	578.70	—	BP28-12-B1	EP: CF-12V26; YU: NP24-12; PS: PS-12260; CS: GP12260
	33	7.68x5.08x7.05 (195x129x179)	nut/bolt	24.8 (11.3)	522-1016-ND	88.80	761.10	—	BP33-12S-B7	EP: CF-12V33U1; PS: PS-12330; CS: GP12340; PA: LC-R1233P, LCR12V33
	40	7.76x6.50x6.73 (197x165x171)	nut/bolt	31.5 (14.3)	522-1017-ND	104.00	891.45	—	BP40-12-B2	EP: CFR-12V38; YU: NP38-12; PS: PS-12400; CS: GP12400; PA: LC-X1242P
	65	13.78x6.54x6.85 (350x166x174)	nut/bolt	54.0 (24.5)	522-1018-ND	167.14	1432.65	—	BP65-12-B2-2	EP: CFR-12V65; YU: NP65-12; PS: PS-12750; CS: GP12650; PA: LC-X1265P, LCR12V65P
						EB Series — Mobility Use				
12	50.0	7.76x6.50x6.73 (197x165x171)	nut/post	36.38 (16.5)	522-1028-ND	172.06	1474.80	—	EB50-12-I2	—
	20.0	7.13x2.99x6.54 (181x76x166)	nut/bolt	14.22 (6.45)	522-1031-ND	56.93	487.95	—	EB20-12-B1	—
						HR Series — High Rate Use				
12	5.5†	5.94x2.01x3.70 (151x51x94)	.187 spade	4.63 (2.1)	522-1032-ND	31.41	—	154.96/6	HR6-12-T1	—
	8.0†	5.94x2.56x3.70 (151x65x94)	.250 spade	6.06 (2.75)	522-1023-ND	42.75	—	210.90/6	HR9-12-T2	YU: NPX-L35; PS: PSH-1280F2; CS: HR1234WF2; PA: UP-RW1245P1, LC-R129P1, LCR129CH1
	13.0†	5.94x3.86x3.86 (151x98x98)	.250 spade	9.25 (4.20)	522-1025-ND	59.90	513.45	—	HR15-12-T2	CS: HR1251W
	20.0†	7.13x2.99x6.54 (181x76x166)	nut/bolt	14.33 (6.50)	522-1027-ND	79.64	682.65	—	HR22-12-B1	—
						MPL Series — High Rate, Long Life Standby Use				
12	53†	8.98x5.47x8.82 (228x139x224)	nut/bolt	39.2 (17.8)	522-1024-ND	166.72	1429.05	—	MPL55-12-B5	CS: GPL12520; PS: PG-12V55

* See “Ordering Information” for note on shipping charges on prepaid orders. † Capacity at 10h rate (Ah)

CYCLON® Batteries

Sealed pure-lead cells were invented by the Gates Corporation in 1973. The purity of the materials used is key to supporting the CYCLON batteries performance benefits. A longer service life, meaning fewer replacements and the cost associated with it, combined with higher reliability and fewer system failures, result in a lower long-term cost of ownership to the end user or equipment owner. **Features:** • Power density: Per unit weight, the power provided by pure lead products offers the greatest high rate power density for your energy dollar • Cycle Life: Deliver up to 300 cycles (100% DOD, C/5) • Float Life: Single cells offer a fifteen year design life • High stable voltage delivery: The high stable voltage delivery of a pure lead battery results from its low internal resistance • Safety: Single cells and Monoblocs emit minimal to no gassing under normal charging conditions • Underwriters Laboratories (UL) recognizes all CYCLON cells and batteries as components • Rugged construction: EnerSys products can withstand not only extreme temperatures but also harsh usage • Fastest recharge • Shelf life: To assure maximum reliability it is recommended that all stored cells/batteries be recharged (boost charged) once every 24 months

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig.	(V)	Capacity (Ah)	Diameter In. (mm)	Height In. (mm)	Length In. (mm)	Tabs In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	EnerSys Part No.
1	2	2.5	1.35 (34.3)	2.41 (61.2)	—	.187 x .025 (4.75 x .64)	842-1000-ND	11.30	9.29	8.79	0810-0004
	2	2.5	1.35 (34.3)	2.41 (61.2)	—	.187 x .025 (4.75 x .64)	842-1005-ND	14.94	12.29	11.62	0810-2044
	2	4.5	1.35 (34.3)	3.78 (96.0)	—	.187 x .025 (4.75 x .64)	842-1001-ND	17.84	14.68	13.88	0860-0004
	2	5.0	1.75 (44.5)	2.87 (72.9)	—	.250 x .025 (6.35 x .64)	842-1002-ND	16.94	13.94	13.18	0800-0004
	2	8.0	1.75 (44.5)	3.94 (100.1)	—	.250 x .025 (6.35 x .64)	842-1003-ND	26.51	21.80	20.62	0850-0004
	2	25	2.57 (65.3)	6.25 (158.8)	—	M6 (-) and M8 (+) terminals	842-1004-ND	53.85	46.16	40.01	0820-0004
2	4	2.5	3.13 (79.5)	1.81 (46.0)	—	.187 x .025 (4.75 x .64)	842-1006-ND	22.50	18.50	17.50	0819-0010
	4	5.0	3.80 (96.5)	2.12 (53.8)	—	.250 x .025 (6.35 x .64)	842-1007-ND	31.14	25.61	24.22	0809-0010
	4	8.0	3.81 (96.8)	2.13 (54.1)	—	.250 x 0.25 (6.35 x .64)	842-1008-ND	34.90	28.70	27.15	0859-0010
3	6	2.5	1.81 (46.0)	2.75 (69.9)	4.48 (113.8)	.187 x .025 (4.75 x .64)	842-1009-ND	27.14	22.32	21.11	0819-0012
	6	5.0	2.12 (53.8)	3.02 (76.7)	5.48 (139.2)	.250 x 0.25 (6.35 x .64)	842-1010-ND	37.22	30.60	28.95	0809-0012
	6	8.0	2.13 (54.1)	4.00 (101.6)	5.48 (139.2)	.250 x 0.25 (6.35 x .64)	842-1011-ND	44.12	36.28	34.32	0859-0012

Fig. 1

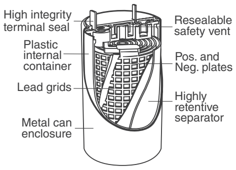
High integrity terminal seal
Plastic internal container
Lead grids
Metal can enclosure
Resealable safety vent
Pos. and Neg. plates
Highly retentive separator

Fig. 2

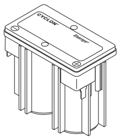

Fig. 3

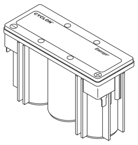

Lead Acid Battery Chargers

Features:

- Short circuit protection with auto-recovery:
  (1)Stand by charge (2)Open state
- Reverse polarity protection
- HI-POT tested 3,000Vac or 4242Vdc at 5 mA for one minute
- UL60950 safety approval
- EMI standard FCC class B

Fig. 1

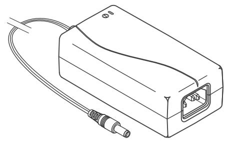

Fig. 2

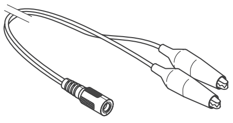

Fig.	Output Voltage	Output Current	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
1	12V	1.5A	4.5 x 1.89 x 1.24 (115 x 48 x 31.5)	102-1951-ND†	32.00	30.40	28.00	DTB120150UC-P5P-FL
	12V	2.25A	4.6 x 2.36 x 1.47 (118 x 60 x 37.5)	102-1952-ND†	37.52	35.65	32.83	DTB120225UC-P5P-FL
	12V	3.0A	4.6 x 2.36 x 1.47 (118 x 60 x 37.5)	102-1953-ND†	39.52	37.55	34.58	DTB120300UC-P5P-FL
	24V	0.8A	4.5 x 1.89 x 1.24 (115 x 48 x 31.5)	102-1954-ND†	32.00	30.40	28.00	DTB240080UC-P5P-FL
	24V	1.25A	4.6 x 2.36 x 1.47 (118 x 60 x 37.5)	102-1955-ND†	37.52	35.65	32.83	DTB240125UC-P5P-FL
	24V	1.5A	4.6 x 2.36 x 1.47 (118 x 60 x 37.5)	102-1956-ND†	39.52	37.55	34.58	DTB240150UC-P5P-FL
2	Cable Assembly, P5 receptacle to two Alligator Clips, 1 foot			CP-2225-ND	8.13	6.50	5.69	CA-2225

† With power cord

Lead Acid Battery Chargers

Features: • 100 ~ 240VAC • Switching DC Battery Chargers • Automatic Fast/Float Function • LED Indicator • Optimizes Battery Life • Meets Safety Agency Requirements • Complies with EMI-RFI Regulations • Impact Resistant Polycarbonate Enclosures • Three Year Warranty **Note: IEC320 AC Power cords not included**

Fig. 1

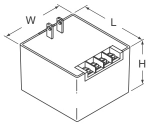

Shown without power cord

Fig. 2

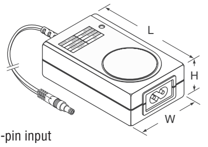

2-pin input

Fig. 3

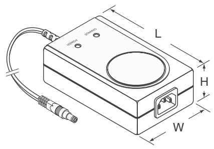

Fig.	Output VDC	Output mA	Max. Power (W)	Dimensions – Inch (mm) L x W x H	AC Input Cord	Mating Connectors Panel Mount	PCB Mount	Harness Mount	Digi-Key Part No.	Price Each 1	10	25	Ault Part No.
1	12	500	7.35	3.75 x 2.10 x 1.25 (95 x 53 x 32)	—	SC1048-ND	SC1050-ND	CP-024B-ND	271-2381-ND†	26.80	25.13	23.45	BA500120500003BK
2	12	500	7.35	3.75 x 2.10 x 1.25 (95 x 53 x 32)	Q348-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2382-ND	27.52	25.80	24.08	BA500120500003NK
3	6	1000	7.35	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2383-ND	46.45	43.55	40.65	BVL061000003N
	6	2000	14.70	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2384-ND	46.45	43.55	40.65	BVL062000003N
	12	600	8.82	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2385-ND	46.45	43.55	40.65	BVL120600003N
	12	1200	17.64	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2386-ND	46.45	43.55	40.65	BVL121200003N
	24	300	8.82	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2387-ND	46.45	43.55	40.65	BVL240300003N
	24	600	17.64	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2388-ND	46.45	43.55	40.65	BVL240600003N
	6	3800	28	5.08 x 3.05 x 1.59 (129 x 77 x 40)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2389-ND	75.04	70.35	65.66	BVW063800003A
	12	2250	33	5.08 x 3.05 x 1.59 (129 x 77 x 40)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2390-ND	75.04	70.35	65.66	BVW122250003A
	24	1250	37	5.08 x 3.05 x 1.59 (129 x 77 x 40)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2391-ND	75.04	70.35	65.66	BVW241250003A

† With power cord

Battery Charger/Maintainer

The InteliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

InteliTender Models 150 and 300

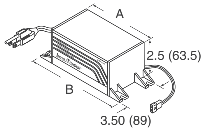

Volt	Amp	Model	Dim. – Inch (mm) A	B	Digi-Key Part No.	Price Each
Battery Chargers						
6	.75	150	5.0 (127)	5.75 (146)	PATC-02-ND‡	69.93
6	1.5	150	5.0 (127)	5.75 (146)	PATC-01-ND†	69.93
12	.75	150	5.0 (127)	5.75 (146)	PATC-04-ND‡	69.93
12	1.5	150	5.0 (127)	5.75 (146)	PATC-03-ND†	69.93
12 x 2	1.5 x 2	300	7.0 (178)	7.75 (197)	PATC-08-ND†	124.88

‡ Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah and above batteries.

Description	Digi-Key Part No.	Price Each
Cable (Must Order Separately)		
Battery Hook-up, Spring Clamp	PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs	PATC-06-ND	5.00
Marine Hook-up, Ring Lugs	PATC-05-ND	5.00

MPD

MEMORY PROTECTION DEVICES, INC.

NEW! "Glider" Battery Holders

Memory Protection Devices has introduced a new category of battery holders for lithium coin cell batteries. "Gliders" are a hybrid type combining the low cost of retainers with higher reliability than regular coin cell battery holders, according to MPD. They are suitable for handheld consumer products, electronic cards, electronic toll tags, single-use devices, alarm systems, main boards, PND's and RFID. Gliders are available in styles ranging from 10mm to 24mm diameter. Versions that hold two batteries in series for 6V applications are also available. The retainer has pressure contacts that offer low electrical resistance and are optimized to keep a tight connection with the battery. The ultra light weight plastic body has a physical feature for reverse polarity protection.

Features: • Special plastic tray eliminates shorting • Nickel-plated phosphor bronze retainers • Easy to load, lock and replace • Batteries are protected from polarity reversal • Uninterrupted contact is assured • PC pin and surface mounting • Low profile • Shock and vibration resistant

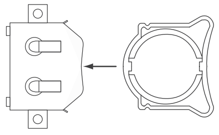

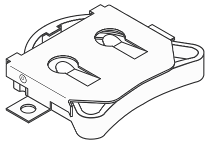

No. of Cells	Description	Battery Cell Size (mm)	Digi-Key Part No.	Price Each 1	10	100	MPD Part No.
1025 Cell Holders							
1	Through Hole	10	BHX1-1025-PC-ND	.42	.39	.35	BHX1-1025-PC
	SMT	10	BHX1-1025-SM-ND	.42	.39	.35	BHX1-1025-SM
1225 Cell Holders							
1	Through Hole	12	BHX1-1225-PC-ND	.42	.39	.35	BHX1-1225-PC
	SMT	12	BHX1-1225-SM-ND	.42	.39	.35	BHX1-1225-SM
1620 Cell Holders							
1	Through Hole	16	BHX1-1620-PC-ND	.43	.40	.37	BHX1-1620-PC
	SMT	16	BHX1-1620-SM-ND	.43	.40	.37	BHX1-1620-SM
1632 Cell Holders							
1	Through Hole	16	BHX1-1632-PC-ND	.43	.40	.37	BHX1-1632-PC
	SMT	16	BHX1-1632-SM-ND	.43	.40	.37	BHX1-1632-SM
2032 Cell Holders							
1	Through Hole	20	BHX1-2032-PC-ND	.43	.40	.37	BHX1-2032-PC
	SMT	20	BHX1-2032-SM-ND	.43	.40	.37	BHX1-2032-SM

No. of Cells	Description	Battery Cell Size (mm)	Digi-Key Part No.	Price Each 1	10	100	MPD Part No.
2325 Cell Holders							
1	Through Hole	23	BHX1-2325-PC-ND	.44	.42	.37	BHX1-2325-PC
	SMT	23	BHX1-2325-SM-ND	.44	.42	.37	BHX1-2325-SM
2430 Cell Holders							
1	Through Hole	24	BHX1-2430-PC-ND	.46	.43	.38	BHX1-2430-PC
	SMT	24	BHX1-2430-SM-ND	.46	.43	.38	BHX1-2430-SM
16mm Cell Holders							
1	Through Hole	16	BHX1-5.8-PC-ND	.44	.42	.37	BHX1-5.8-PC
	SMT	16	BHX1-5.8-SM-ND	.44	.42	.37	BHX1-5.8-SM
LR44 Cell Holders							
1	Through Hole	—	BHX1-LR44-PC-ND	.42	.39	.35	BHX1-LR44-PC
	SMT	—	BHX1-LR44-SM-ND	.42	.39	.35	BHX1-LR44-SM
Dual CR2032 Cell Holders							
2	Through Hole	20	BHX2-2032-PC-ND	.47	.44	.39	BHX2-2032-PC
	SMT	20	BHX2-2032-SM-ND	.47	.44	.39	BHX2-2032-SM

"Budget Balancers" Battery Holders

Fig. 1

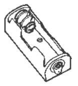

Fig. 2

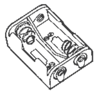

Fig. 3

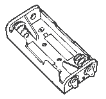

Fig. 4

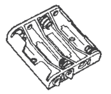

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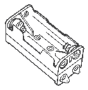

Fig. 6

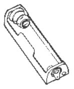

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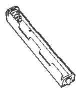

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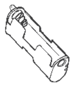

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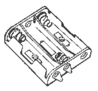

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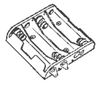

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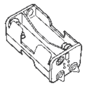

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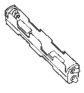

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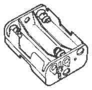

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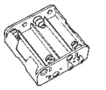

Fig. 15

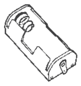

Fig. 16

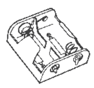

Fig. 17

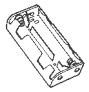

Fig. 18

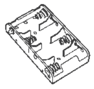

Fig. 19

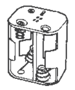

Fig. 20 ***NEW!***

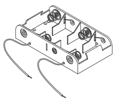

Fig. 21 ***NEW!***

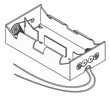

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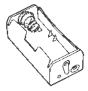

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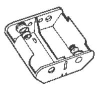

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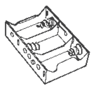

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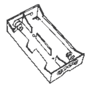

Fig. 26

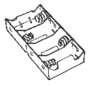

Fig. 27 ***NEW!***

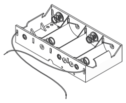

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
"N" Cell Holders — RoHS Compliant						
1	1	Solder Tabs	BHNL-ND	.71	.66	.59
2	2	Solder Tabs	BH2NL-ND	.74	.69	.62
"AAA" Cell Holders						
3	2	Solder Tabs	BC2AAAL-ND◆	.74	.69	.62
4	4	Solder Tabs	BC4AAAL-ND◆	1.84	1.70	1.53
5	4	Solder Tabs	BH24AAAL-ND	1.22	1.14	1.02
3	2	6" Wire Leads	BC2AAAW-ND◆†	.82	.76	.68
4	4	6" Wire Leads	BC4AAAW-ND◆†	1.91	1.77	1.59
5	4	6" Wire Leads	BH24AAAW-ND◆†	1.27	1.18	1.06
"AA" Cell Holders						
6	1	Solder Tabs	BCAAL-ND◆	.67	.63	.56
7	2	Solder Tabs	BC12AAL-ND◆	.73	.68	.61
8	2	Solder Tabs	BC22AAL-ND◆	.71	.66	.59
9	3	Solder Tabs	BC3AAL-ND◆	1.16	1.08	.97
10	4	Solder Tabs	BC4AAL-ND◆	1.28	1.19	1.07
11	4	Solder Tabs	BH24AAL-ND◆	1.07	.99	.89
12	4	Solder Tabs	BH14AAL-ND◆	.89	.83	.74
13	6	Solder Tabs	BH26AAL-ND◆	1.52	1.41	1.27
14	8	Solder Tabs	BH48AAL-ND	1.84	1.70	1.53
8	2	6" Wire Leads	BC22AAW-ND◆†	.74	.69	.62
9	3	6" Wire Leads	BC3AAW-ND◆†	1.22	1.14	1.02
10	4	6" Wire Leads	BC4AAW-ND◆†	1.28	1.19	1.07
11	4	6" Wire Leads	BH24AAW-ND◆†	1.16	1.08	.97
12	4	6" Wire Leads	BH14AAW-ND◆†	.89	.83	.74
13	6	6" Wire Leads	BH26AAW-ND◆†	1.58	1.47	1.32
14	8	6" Wire Leads	BH48AAW-ND◆†	1.91	1.77	1.59
"C" Cell Holders — RoHS Compliant						
15	1	Solder Tabs	BHCL-ND	.82	.76	.68
16	2	Solder Tabs	BH2CL-ND	1.56	1.45	1.30
17	4	Solder Tabs	BH24CL-ND	1.75	1.63	1.46
18	4	Solder Tabs	BH4CL-ND	2.09	1.94	1.74
19	4	Solder Tabs	BH22CL-ND	2.23	2.07	1.86
20	4	6" Wire Leads	BH4CW-ND ***NEW!***	1.06	1.00	—
21	4	6" Wire Leads	BH24CW-ND ***NEW!***	.93	.88	—
"D" Cell Holders — RoHS Compliant						
22	1	Solder Tabs	BHDL-ND	.89	.83	.74
23	2	Solder Tabs	BH2DL-ND	1.75	1.63	1.46
24	3	Solder Tabs	BH3DL-ND	2.18	2.02	1.82
25	4	Solder Tabs	BH24DL-ND	2.18	2.02	1.82
26	4	Solder Tabs	BH4DL-ND	2.71	2.51	2.26
27	4	6" Wire Leads	BH4DW-ND ***NEW!***	1.36	1.28	—
21	4	6" Wire Leads	BH24DW-ND ***NEW!***	1.10	1.04	—

◆ ***RoHS Compliant*** † Stripped-Tinned 3/16" (4.78mm)

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Dimensions in Inches

Fig. 1

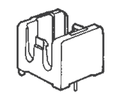

Fig. 2

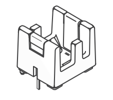

Fig. 3

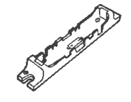

Fig. 4

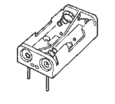

Fig. 5

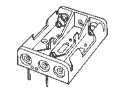

Fig. 6

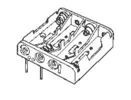

Fig. 7 ***NEW!***

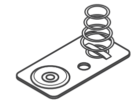

Fig. 8

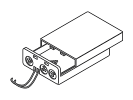

Fig. 9

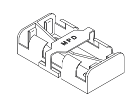

Fig. 10

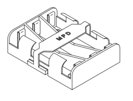

Fig. 11

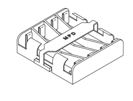

Fig. 12

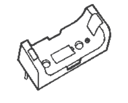

Fig. 13

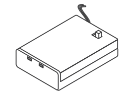

Fig. 14

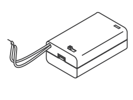

Fig. 15

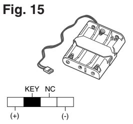

Fig. 16

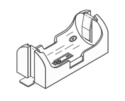

Fig. 17

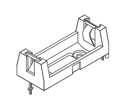

Fig. 18

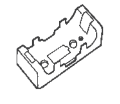

Fig. 19

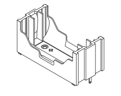

Fig. 20

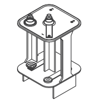

Fig. 21

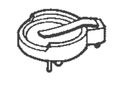

Fig. 22

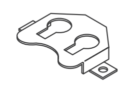

Fig. 23

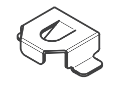

Fig. 24

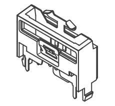

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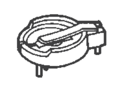

Fig. 26

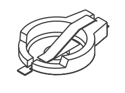

Fig. 27 — Fits CR2032 and CR1632

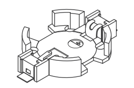

Fig. 28 ***NEW!***

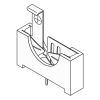

Fig. 29

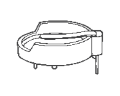

Fig. 30

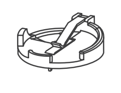

Fig. 31

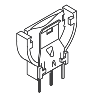

Fig. 32

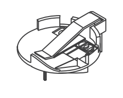

Fig. 33

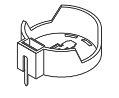

Fig. 34

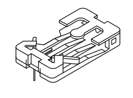

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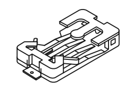

Fig. 36 — Fits CR2032

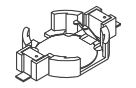

Fig. 37

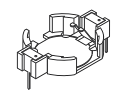

Fig. 38 ***NEW!***

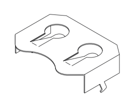

Fig. 39

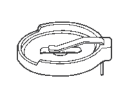

Fig. 40

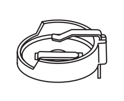

Fig. 41

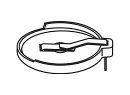

Fig. 42

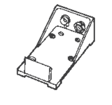

Fig. 43

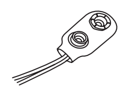

Fig. 44

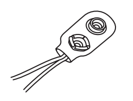

Fig. 45

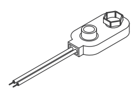

Fig. 46

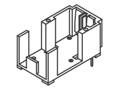

Fig. 47

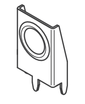

Fig. 48

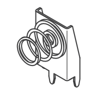

Fig. 49

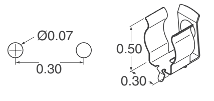

Fig. 50

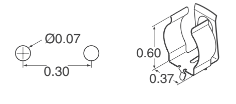

Fig. 51

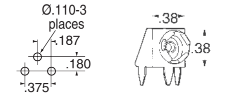

Fig. 52

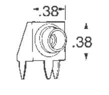

Battery Holders

Fig.	No. of Cells	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
"1/3N" Cell Holders — RoHS Compliant						
1	1	PC Mount, Solder Legs	BC1/3N-ND	1.01	9.32	84.00
2	1	PCB Mount	BC1/3N-C-SM-ND	1.39	12.88	116.00
"N" Cell Holder						
3	2	PC Mount, Solder Legs	BH2N-ND	2.04	18.87	170.00
"AAA" Cell Holders						
4	2	PC Mount, Solder Legs	BH2AAA-PC-ND◆	1.61	13.65	123.00
	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AAA-W-ND	1.59	13.65	123.00
5	3	PC Mount, Solder Legs	BH3AAA-PC-ND	2.61	22.98	207.00
	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AAA-W-ND	2.61	22.98	207.00
6	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AAA-W-ND	3.06	25.09	226.00
7	2	AAA Battery Contact, Feed Thru Type	BK-5003-ND◆ ***NEW!***	.19	1.75	—
8	3	6" (152.40mm) Wire Leads, Stripped-Tinned .161" (5mm) with Cover	SBH-431-1A-ND◆	.95	8.77	79.00
"AA" Cell Holders						
4	2	PC Mount, Solder Legs	BH2AA-PC-ND◆	1.70	14.43	130.00
	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AA-W-ND	1.79	14.43	130.00
5	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AA-W-ND◆	2.80	25.86	233.00
	3	PC Mount, Solder Legs	BH3AA-PC-ND	2.80	25.86	233.00
6	4	PC Mount, Solder Legs	BH4AA-PC-ND	3.24	26.53	239.00
	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AA-W-ND	3.24	26.53	239.00
9	2	PC Mount, Solder Legs	BK-6100-PC4-ND◆	2.65	24.53	221.00
10	3	PC Mount, Solder Legs	BK-1280-PC6-ND◆	2.84	26.31	237.00
11	4	PC Mount, Solder Legs	BK-1279-PC8-ND◆	3.06	28.31	255.00
12	1	PC Mount, Solder Legs	BHAA-3-ND◆	.90	8.33	75.00
	1	PC Mount, Solder Legs	BHAA-3-G-ND◆	1.76	16.32	147.00
13	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch with Belt Clip	SBC331AS-GRN-ND◆	1.75	16.21	146.00
14	2	Battery Case for 2 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-321AS-ND◆	.89	8.21	74.00
	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-331AS-ND	1.30	11.99	108.00
	4	Battery Case for 4 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-341AS-ND	1.39	12.88	116.00
Computer Clock Battery Replacement — "AA" Cell Holder — RoHS Compliant						
15	3	9" (228.60mm) Wire Leads with Connector, Velcro Pads Included	BH3AA-211-ND	3.95	36.52	329.00
"1/2AA" Cell Holders — RoHS Compliant						
12	1	PC Mount, Solder Legs	BH1/2AA-3-ND	.80	7.44	67.00
16	1	SMD 1/2AA	BH1/2AA-SM-ND	2.48	22.98	207.00

Digi-Reel®

Fig.	No. of Cells	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
"2/3A" or "123A" Cell Holders						
12	1	PC Mount, Solder Legs	BH2/3A-3-ND◆	.82	7.55	68.00
—	1	Cover for BH2/3A-3	BH2/3AC-ND	.68	6.33	57.00
16	1	SMD 2/3A	BH2/3A-SM-ND◆	2.52	23.31	210.00
17	1	PC Mount, Solder Legs	BC2/3AE-ND◆	1.04	9.66	87.00
—	1	Cover for BC2/3AE	BC2/3AC-ND	.34	3.11	28.00
"C" Cell Holder — RoHS Compliant						
18	1	PC Mount, Solder Legs	BHC-2-ND	2.56	23.64	213.00
"D" Cell Holder — RoHS Compliant						
19	1	PC Mount, Solder Legs	BHD-2-ND	3.82	35.30	318.00
Lantern Battery Replacement — "D" Cell Holder — RoHS Compliant						
20	4	Uses Four UM-1 or D Cells	BA4D-S-ND	3.08	28.53	257.00
Coin Cell Holder — 10mm Cell Diameter — RoHS Compliant						
21	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH401-ND	.96	8.88	80.00
Coin Cell Holders — 12.5mm Cell Diameter — RoHS Compliant						
21	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH501-ND	1.08	9.99	90.00
22	1	SMT, 1.6 ~ 2.5mm Cell Height	BK-885-CT-ND†	.48	4.00	32.00
	1	SMT, 1.6 ~ 2.5mm Cell Height	BK-885-TR-ND‡		216.00/800	
Coin Cell Holders — 4.8mm Cell Diameter — RoHS Commpliant						
23	1	SMT, 1 ~ 1.9mm Cell Height	BK-414-CT-ND†	.40	3.50	30.00
	1	SMT, 1 ~ 1.9mm Cell Height	BK-414-TR-ND‡		500.00/2,000	
Coin Cell Holders — 16mm Cell Diameter — RoHS Compliant						
24	1	PC Mount, Vertical, 1.6 ~ 3.2mm Cell Height	BV-1632-ND	.74	6.88	62.00
	1	CR1632 Vertical Holder with Gold Flash Contacts	BV-1632-G-ND ***NEW!***	.64	6.00	—
25	1	PC Mount, Solder Legs, 1.6 ~ 3.2mm Cell Height	BH600-ND	1.13	10.43	94.00
26	1	SMT, Temperature Range -40°C ~ 245°C	BH600SM-ND	1.13	10.18	85.05
	1	SMT, Temperature Range -40°C ~ 245°C, Gold	BH600SM-G-ND	1.19	10.99	99.00
	1	SMT, High Temperature, 16x5.8mm, Gold	BH600SM-5.8-G-ND	1.19	10.99	99.00
27	1	SMT, High Grip Holder for 1632, Gold	BU1632SM-JJ-GCT-ND	.65	5.99	57.24
	1	SMT, High Grip Holder for 1632, Gold	BU1632SM-JJ-GTR-ND		270.00/500	
Coin Cell Holders — 20mm Cell Diameter — RoHS Compliant						
28	1	Vertical Mount with Latch	BK-5058-ND ***NEW!***	.82	7.55	68.00
22	1	SMT, 1.6 ~ 3.2mm Cell Height	BK-883-CT-ND†	.36	3.33	30.00
	1	SMT, 1.6 ~ 3.2mm Cell Height	BK-883-TR-ND‡		144.00/450	
29	2	PC Mount, Solder Legs 2.5 ~ 3.2mm Cell Height	BH800S-ND	1.03	9.55	86.00
30	1	PC Mount, Solder Legs	BH32T-C-ND	.96	8.88	80.00
	1	PC Mount, Solder Legs, Gold	BH32T-C-G-ND	1.08	9.99	90.00
31	1	Vertical, for BR, CR2032 Battery	BS-5-ND	.53	4.88	44.00
32	1	Horizontal, for BR, CR2032 Battery	BS-3-ND	.70	6.44	58.00
33	1	Horizontal, for 3V Lithium Battery, CR2032 or BR2032	BS-7-ND	.59	5.44	49.00
34	1	PC Mount, Press-to-Eject Feature, CR2032 Battery	BA2032-ND	.96	8.88	80.00
35	1	SMT, Press-to-Eject Feature, CR2032 Battery	BA2032SM-ND	.96	8.88	80.00

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

MPD
MEMORY PROTECTION DEVICES, INC.

Battery Holders *(Cont.)*

Fig.	No. of Cells	Description	Digi-Key Part No.	Pricing 1	10	100
36	1	SMT for 2032, Gold	BU2032SM-HD-GCT-ND†	.71	6.59	59.39
	1	SMT for 2032, Gold	BU2032SM-HD-GTR-ND‡		236.00/400	
27	1	SMT, High Grip Holder for 2032, Gold	BU2032SM-JJ-GCT-ND†	1.05	8.75	70.00
	1	SMT, High Grip Holder for 2032, Gold	BU2032SM-JJ-GTR-ND‡		236.00/400	
37	1	PC Mount for 2032, Gold	BU2032-1-HD-G-ND	.67	6.22	56.00
38	2	CR2450 Battery Retainer with PC Pins, Slim Style	BK-5033-ND ***NEW!***	.17	1.63	—
Coin Cell Holders — 23mm Cell Diameter — RoHS Compliant						
29	2	PC Mount, Solder Legs, 2.5mm Cell Height	BH906S-ND	1.07	9.88	89.00
30	1	PC Mount, Solder Legs, 2 ~ 3.2mm Cell Height	BH908T-C-ND	.91	8.44	76.00
Coin Cell Holders — 24-25mm Cell Diameter — RoHS Compliant						
39	1	PC Mount, Solder Legs, 2 ~ 3mm Cell Height	BH2430T-C-ND	.96	8.88	80.00
40	1	PC Mount, Solder Legs, 7.7mm Cell Height	BH1000-G-ND	1.24	11.43	103.00
Coin Cell Holder — 30mm Cell Diameter — RoHS Compliant						
41	1	PC Mount, Solder Legs, 3.2mm Cell Height	BH3000-ND	1.24	11.43	103.00
9-Volt Cell Holders / Snaps — RoHS Compliant						
42	1	PC Mount, Solder Legs	BH9V-PC-ND	1.30	11.99	108.00
	1	6" (152.40mm) Wire Leads	BH9V-W-ND	1.32	12.21	110.00

Fig.	No. of Cells	Description	Digi-Key Part No.	Pricing 1	10	100
43	1	6" (152.40mm) Battery Snap Cable	BS6I-ND	.41	3.77	34.00
	1	12" (304.8mm) Battery Snap Cable	BS12I-ND	.42	3.89	35.00
44	1	6" (152.40mm) Heavy Duty Battery Snap Cable	BS6I-HD-ND	.42	3.88	35.00
	1	12" (304.8mm) Heavy Duty Battery Snap Cable	BS12I-HD-24AWG-ND	.33	2.93	27.86
45	1	6" (152.40mm) I-Style Molded Case Battery Snap Cable	BS6I-MC-ND	.48	4.44	40.00
	1	12" (304.8mm) I-Style Molded Case Battery Snap Cable	BS12I-MC-ND	.52	4.77	43.00
46	1	PC Mount, Printed Circuit Board Type with Contacts	BC9VPC-ND	1.38	12.76	115.00
Printed Circuit Snap-Ons (off board battery mount) — RoHS Compliant						
47	—	Positive Battery Contact, AA, AAA	BK-595-ND	.14	1.33	12.00
48	—	Negative Battery Contact, AA, AAA	BK-628-ND	.50	4.66	42.00
49	—	10mm Diameter Contact	BK-82-ND	.19	1.78	16.00
50	—	5mm Diameter Contact	BK-92-ND	.19	1.78	16.00
51	—	9-Volt Female Snap-on	BSPCF-ND	.22	2.00	18.00
52	—	9-Volt Male Snap-on	BSPCM-ND	.20	1.89	17.00

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

NEW! LI-ION Holders

Fig.	No. of Cells	Description	Digi-Key Part No.	Pricing 1	10	100
1	1	Solder Tabs	BK-18650-PC2-ND	2.56	2.37	2.13
2	2	4 PC Pins	BK-18650-PC4-ND	2.11	19.88	—
3	3	6 PC Pins	BK-18650-PC6-ND	2.46	23.13	—
4	4	8 PC Pins	BK-18650-PC8-ND	2.78	26.13	—

Fig. 1

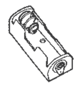

Fig. 2

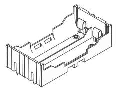

Fig. 3

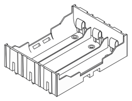

Fig. 4

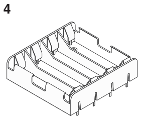

Cigarette Lighter Auto Power/12V

Specifications: • 21mm (Inside Diameter) • Auto Plugs: (Fuse 3AG Style) • The length of the cord shown in each item is measured from the welding point

Fig. 1

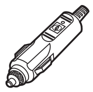

Fig. 2

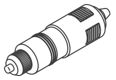

Fig. 3

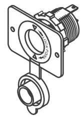

Fig. 4 ***NEW!***

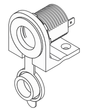

Fig. 5 ***NEW!***

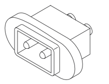

Fig. 6 ***NEW!***

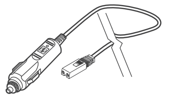

Fig. 7

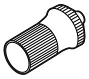

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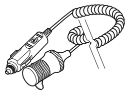

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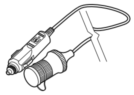

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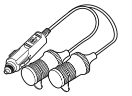

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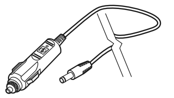

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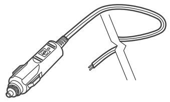

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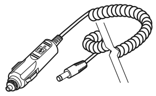

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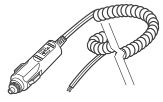

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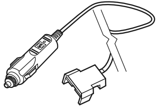

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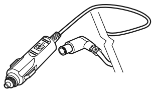

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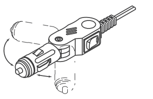

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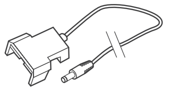

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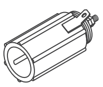

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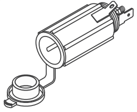

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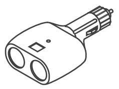

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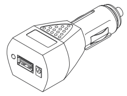

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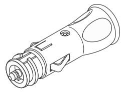

Fig. 24 ***NEW!***

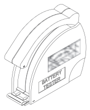

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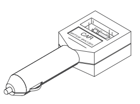

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
Auto Power Plug — RoHS Compliant					
1	12V Auto Plug with LED, Switch and Fuse, Black	AP-130-ND ***NEW!***	2.87	27.00	—
	12V Auto Plug, Mini Style with Fuse, Black	AP-131-ND ***NEW!***	1.33	12.50	—
	ABS Fused Auto Plug with LED, Black	APP-001-ND	3.00	27.75	250.00
	20AMP Plug for 21 ~ 22mm Sockets	APP-001-20AMP-ND	5.04	46.62	420.00
	ABS Fused Auto Plug with LED, Gray	APP-002-ND	3.00	27.75	250.00
	ABS Fused Auto Plug with No LED, Black	APP-003-ND	2.86	26.42	238.00
2	Auto Locking Plug with LED, Black	AP121-ND	3.76	34.74	313.00
3	Auto Locking Socket, Black (use with AP121-ND)	AS212-ND	3.00	27.75	250.00
4	12V Auto Socket with Safety Cap, 20A, Black	AS-212-C-ND ***NEW!***	4.14	38.88	—
5	2-Pin Auto Socket, Black (use with ZA5075-ND)	EP407-ND ***NEW!***	2.25	21.13	—
6	5' (1.525 meters) 12V Cable Assembly, 20AWG Cord, 10A Fused Plug with LED and 2-Pin Connector, Black (use with EP407-ND)	ZA5075-ND ***NEW!***	3.70	34.75	—
Auto Power Assemblies					
7	Cigarette Inline Socket, Plastic	ZA2010-ND◆	1.49	13.76	124.00
	Black Rubber Cap for Sockets	ZA2081-B-ND◆	.67	6.22	—
8	12' (3.66 meters) Coil Cord Assembly with 5A Fused Plug with LED	ZA5070-ND◆	8.56	79.14	713.00
9	12' (3.66 meters) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5071-ND◆	8.56	79.14	713.00
10	8" (203.2mm) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5072-ND	8.28	76.59	690.00
11	6' (1.83 meters) 18AWG Cord, 2.1mm x 5.5m DC Plug with 5A Fused Plug with LED	ZA5073-ND◆	5.05	46.73	421.00
	6' (1.83 meters) 18AWG Cord, 2.5mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-2.5-ND◆	5.05	46.73	421.00
12	6' (1.83 meters) 12V Cable Assembly, 18AWG Cord with 5A Fused Plug with LED	ZA5073-B-ND◆ ***NEW!***	3.52	33.13	—

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
13	12' (3.66 meters) Cord, 2.1mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5074-ND◆	8.00	74.04	667.00
14	12' (3.66 meters) 12V Cable Assembly, 20AWG Coil Cord with 5A Fused Plug with LED	ZA5074-B-ND◆ ***NEW!***	5.60	52.63	—
15	1' (0.30 meters) UL2468 Cord, Lead Acid Clip with 2A Fused Plug with LED	ZA5076-ND	5.63	52.06	469.00
16	6' (1.83 meters) Cord, 2.1mm x 5.5mm Rt. Angle DC Plug with 3A Fused Plug with LED	ZA5077-ND◆	5.05	46.73	421.00
17	6' (1.83 meters) Cord, Rotary Plug, with Lighted Switch and 5A Fuse	BK-5072-ND◆	7.84	72.48	653.00
18	8" (203.2mm), UL2468 Cord, Lead Acid Clip, 2.1mm x 5.5mm DC Plug	ZA5350-ND◆	3.82	35.30	318.00
	8" (203.2mm), UL2468 Cord, Lead Acid Clip, No Connector	ZA5350-B-ND◆	3.50	32.41	292.00
19	Panel Mount, Power Socket, Insert Lock	ZA2070-ND◆	3.98	36.85	332.00
	Panel Mount, Power Socket, Screw Lock	ZA2060-ND◆	3.11	28.75	259.00
20	12V Auto Socket with Safety Cap, Black	AS-203B-ND◆ ***NEW!***	2.67	25.13	—
21	Power Plug Splitter, One Male Plug-Two Receptacle Sockets with LED	ZA5018-ND	7.34	67.93	612.00
22	12V Auto Plug with USB Outlet, Black	AP-133-ND◆ ***NEW!***	7.00	65.75	—
NEW! European Plugs — RoHS Compliant NEW!					
23	12V Standard Auto Plug	AP-124-ND	2.27	21.38	—
	12V Auto Plug	AP-129-ND	1.64	15.38	—
NEW! Testing — RoHS Compliant NEW!					
24	12V Battery Tester	AE603-ND	5.59	52.50	—
25	12V Car Battery Analyzer with Auto Plug	AP-125-ND	8.22	77.25	—

◆ ***RoHS Compliant***

RoHS COMPLIANT ~ ISO 9001 CERTIFIED

Battery Holders and Retainers

Fig. 1
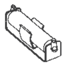
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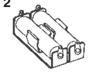
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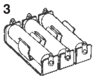
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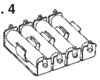
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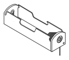
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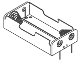
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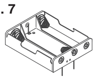
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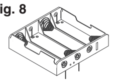
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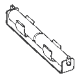
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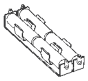
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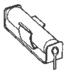
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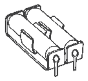
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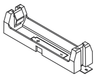
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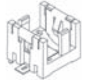
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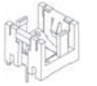
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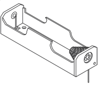
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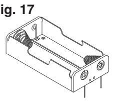
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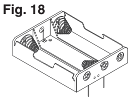
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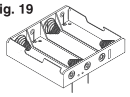
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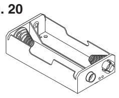
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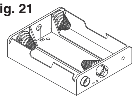
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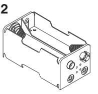
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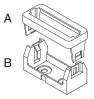

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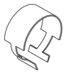
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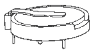
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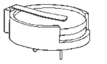
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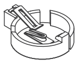
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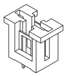
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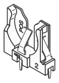
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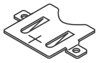
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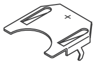
Fig. 32
Uses CR2032
Coin Cell
Lithium
Batteries
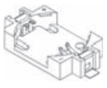
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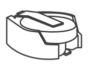
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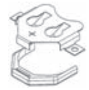

Fig.	No. of Cells	Digi-Key Part No.	Pricing		
			1	10	100
12 Volt, "N" Aluminum Cell Holders					
1	1	154K-ND◆	2.18	20.26	172.35
2	2	155K-ND◆	4.50	41.76	365.85
3	3	156K-ND	9.35	86.78	758.00
"AAA" Aluminum Cell Holders					
1	1	137K-ND◆	2.47	22.79	223.90
2	2	138K-ND◆	4.70	43.68	407.00
3	3	169K-ND	6.89	63.94	574.00
4	4	170K-ND◆	9.42	87.43	763.00
"AAA" Plastic Cell Holders - PC Mount — RoHS Compliant					
5	1	2466K-ND	1.25	11.79	113.30
6	2	2468K-ND	1.31	12.30	117.90
7	3	2479K-ND	1.74	16.41	157.60
8	4	2481K-ND	1.92	18.05	173.35
"AAA" Plastic Cell Holders - Surface Mount — RoHS Compliant					
1	1	1020K-ND	2.11	19.47	179.65
2	2	1022K-ND	3.60	33.26	307.00
"AAA" Plastic Cell Holders - 6" Wire Leads — RoHS Compliant					
5	1	2467K-ND	1.25	11.79	113.30
6	2	2469K-ND	1.31	12.30	117.90
7	3	2480K-ND	1.74	16.41	157.60
8	4	2482K-ND	1.92	18.05	173.35
"AA" Aluminum Cell Holders — RoHS Compliant					
1	1	139K-ND	1.73	16.02	145.25
2	2	140K-ND	4.67	43.13	398.79
2	2	146K-ND	3.79	34.61	314.55
3	3	171K-ND	5.52	51.29	452.00
4	4	182K-ND	7.84	72.77	641.00
9	2	189K-ND	2.93	27.17	252.00
10	4	192K-ND	5.31	49.34	432.00
11	1	2222K-ND	2.16	20.04	187.55
12	2	2223K-ND	3.43	31.65	314.55
"AA" Plastic Cell Holders - PC Mount — RoHS Compliant					
16	1	2460K-ND	1.25	11.79	113.30
17	2	2462K-ND	1.31	12.30	117.90
18	3	2464K-ND	1.74	16.41	157.60
19	4	2477K-ND	1.92	18.05	173.35
"AA" Plastic Cell Holders - 6" Wire Leads — RoHS Compliant					
16	1	2461K-ND	1.25	11.79	113.30
17	2	2463K-ND	1.31	12.30	117.90
18	3	2465K-ND	1.74	16.41	157.60
19	4	2478K-ND	1.92	18.05	173.35
"AA" Plastic Cell Holders - with Snap-On Connector — RoHS Compliant					
20	2	2474K-ND	1.31	12.30	117.90
21	3	2475K-ND	1.74	16.41	157.60
22	4	2476K-ND	1.92	18.05	173.35
"C" Aluminum Cell Holders† — RoHS Compliant					
1	1	173K-ND	3.06	28.41	244.98
2	2	174K-ND	3.42	31.59	296.45
3	3	187K-ND	8.33	77.35	720.00
9	2	185K-ND	3.00	27.74	260.10
10	4	196K-ND	6.18	57.35	536.00
10	4	151K-ND	6.51	59.55	565.00
11	1	2224K-ND	3.28	30.47	259.98
12	2	2225K-ND	3.67	33.87	332.65
"C" Steel Cell Holders† — RoHS Compliant					
1	1	2173K-ND	2.91	26.62	241.90
"D" Aluminum Cell Holders†					
1	1	175K-ND◆	2.27	20.97	190.60
2	2	176K-ND◆	6.29	58.08	557.85
3	3	190-ND◆	9.45	87.75	776.00
9	2	186K-ND◆	3.42	31.59	296.45
10	4	200K-ND◆	7.46	69.23	646.00
11	1	2226K-ND◆	2.84	26.22	241.90
12	2	2227K-ND	4.84	44.92	399.05
"D" Steel Cell Holders† — RoHS Compliant					
1	1	2175K-ND	3.55	32.43	278.10
3 Volt Lithium Cells - Plastic Holders - Surface Mount — RoHS Compliant					
1	1/2 AA	1016K-ND	2.11	19.47	179.65
1	2/3 A	1018K-ND§	2.11	19.47	179.65
13	AA	1024K-ND ***NEW!***	2.53	23.51	200.25
14	1/3 N	498K-ND	2.55	23.98	164.80
3 Volt Lithium Cells - Plastic Holders - PC Mount — RoHS Compliant					
15	1/3 N	497K-ND	2.01	18.90	136.80
23B	1/2 AA	108KK-ND	1.66	15.43	136.80
23B	AA	1028K-ND	1.66	15.43	136.80
23B	2/3 A	1029K-ND	1.66	15.43	136.80

Fig.	No. of Cells	Digi-Key Part No.	Pricing		
			1	10	100
Lithium - Plastic Retaining Cover — RoHS Compliant					
23A	1/2 AA	108CK-ND	.66	6.08	58.30
23A	AA	1028CK-ND	.79	7.42	71.35
23A	2/3 A	1029LC-ND	.78	7.37	71.10
24	2/3 A	1029CK-ND	.75	7.02	67.95

◆ ***RoHS Compliant*** † "C" and "D" cell holders are dual clips only § For retaining cover, use 1029CK-ND

Fig.	Size	No. of Cells	Digi-Key Part No.	Pricing		
				1	10	100
PC Mount Coin Cell Holders — RoHS Compliant						
25	12mm	1	500K-ND	1.37	12.00	97.75
25	16mm	1	502KE-ND	1.71	15.84	139.15
25	20mm	1	106K-ND	1.71	15.84	139.15
25	20mm	1	103K-ND	1.71	15.84	139.15
25	23mm	1	107K-ND	1.71	15.84	139.15
25	23mm	1	104K-ND	1.71	15.59	139.15
25	24mm	1	105K-ND	1.71	15.84	139.15
25	24mm	1	1025-7K-ND	1.88	17.42	152.90
26	12mm	2	501K-ND	2.16	20.09	177.85
26	20mm	2	1026K-ND	1.88	17.42	152.90
26	23mm	2	1027K-ND	1.88	17.42	152.90
26	24mm	2	1025K-ND	1.88	17.42	152.90
27	20mm	1	1066K-ND	1.71	15.84	139.15
28	20mm	1	1067K-ND	1.90	17.63	154.70
29	20mm	1	1065K-ND	1.90	17.63	154.70
Surface Mount Coin Cell Retainer Contacts — RoHS Compliant						
30	4.8mm	1	2994K-ND	.18	1.72	15.55
30	6.8mm	1	2998K-ND	.53	4.63	37.80
30	12mm	1	3000K-ND	.59	5.15	42.10
30	12mm	1	3000KCT-ND‡	.77	7.00	65.60
30	12mm	1	3000KTR-NDΔ	353.16/1000		
30	20mm	1	3026K-ND	.60	5.27	43.00
30	20mm	1	3002K-ND	.60	5.27	43.00
30	20mm	1	3002KCT-ND‡	.94	8.27	53.15
30	20mm	1	3002KTR-NDΔ	226.75/500		
30	23mm	1	3004K-ND	.62	5.40	43.90
30	24mm	1	3008K-ND	.70	6.12	51.10
30	24mm	1	3006K-ND	.66	5.81	48.85
30	24mm	1	3006KCT-ND‡	1.13	10.36	97.10
30	24mm	1	3006KTR-NDΔ	370.40/400		
34	20mm	2	3020K-ND	1.32	12.26	104.50
Thru Hole Mount Coin Cell Retainer Contacts — RoHS Compliant						
31	6.8mm	1	2999K-ND	.53	4.63	37.80
31	12mm	1	3001K-ND	.59	5.15	42.10
31	16mm	1	3013K-ND	.60	5.21	42.55
31	20mm	1	3003K-ND	.60	5.27	43.00
31	23mm	1	3005K-ND	.62	5.40	43.90
31	24mm	1	3007K-ND	.66	5.81	48.85
31	24mm	1	3009K-ND	.61	5.60	51.10
Surface Mount Coin Cell Holder — RoHS Compliant						
32	20mm	1, Gold	1060K-ND	1.71	15.84	139.15
32	20mm	1	1060KTR-NDΔ	587.50/500		
32	2450 Type	1, Gold	1054KCT-ND‡	4.88	45.96	442.37
32	2450 Type	1, Gold	1054KTR-NDΔ	857.90/200		
33	20mm	1, Gold	1081K-ND	2.57	23.73	219.05
33	20mm	1, Gold	1081KCT-ND‡	3.97	37.32	279.90
33	20mm	1, Gold	1081KTR-NDΔ	516.60/200		
33	20mm	2, Gold	1082K-ND	2.57	23.73	219.05
33	20mm	2, Gold	1082KCT-ND‡	3.97	37.32	279.90
33	20mm	2, Gold	1082KTR-NDΔ	516.60/200		
33	20mm	1	1061K-ND	2.13	19.65	187.10
33	20mm	1	1061KTR-NDΔ	439.00/200		
33	20mm	2	1062K-ND	2.13	19.65	187.10
33	20mm	2	1062KTR-NDΔ	439.00/200		
33	23mm	1, Gold	1091K-ND	2.57	23.73	219.05
33	23mm	1, Gold	1091KCT-ND‡	3.97	37.32	279.90
33	23mm	1, Gold	1091KTR-NDΔ	516.60/200		
33	23mm	1	1071K-ND	2.13	19.65	187.10
33	23mm	1	1071KTR-NDΔ	439.00/200		

‡ Cut Tape Δ Tape and Reel

Battery Holders, Clips, Contacts and Accessories

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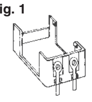
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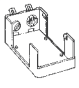
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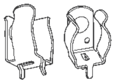
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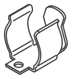
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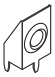
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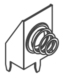
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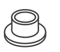
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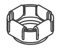
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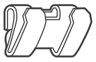
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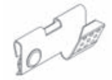
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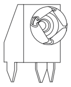
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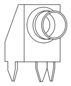
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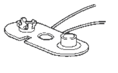
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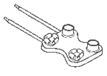
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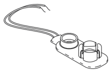
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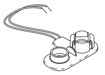
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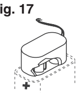
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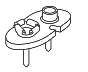
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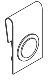
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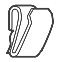
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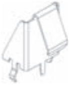
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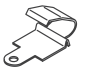
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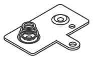
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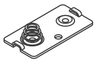
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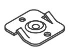
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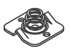
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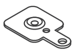
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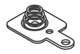
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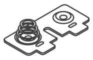
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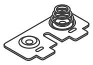
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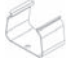
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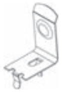
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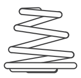
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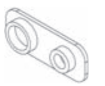
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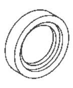
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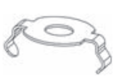
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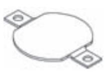
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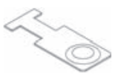

Fig.	Description	Digi-Key Part No.	Pricing		
			1	10	100
9 Volt Plastic Holders — RoHS Compliant					
1	1 Cell	1294K-ND	1.95	18.09	157.30
2	1 Cell	1295K-ND	1.87	17.40	154.25
9 Volt Aluminum Holders — RoHS Compliant					
1	1 Cell	1291K-ND	3.07	28.10	247.85
2	1 Cell	1290K-ND	2.93	26.77	241.90
Insulated Polarizing Washers					
35	Red	59K-ND◆	—	1.24	9.10
35	Black	60K-ND	—	1.24	9.10
9 Volt Battery Straps — RoHS Compliant					
13	Single	72K-ND	1.35	12.57	115.90
14	Dual	227K-ND	2.97	27.45	257.05
Premium 9 Volt Battery Straps (I-Style) — RoHS Compliant					
15	Single, 4”	2238K-ND	.95	8.97	85.30
15	Single, 6”	2239K-ND	.97	9.16	87.10
15	Single, 6.5”	83K-ND	1.96	17.95	169.90
15	Single, 8”	2240K-ND	.99	9.35	88.90
Premium 9 Volt Battery Straps (T-Style) — RoHS Compliant					
16	Single, 4”	2241K-ND	1.00	9.45	89.90
16	Single, 6”	2242K-ND	1.02	9.63	91.60
16	Single, 8”	2243K-ND	1.04	9.82	93.40
Economy 9 Volt Battery Straps (I-Style) — RoHS Compliant					
15	Single, 4”	232K-ND	.48	4.55	43.55
15	Single, 6”	233K-ND	.49	4.65	44.80
15	Single, 8”	234K-ND	.50	4.75	45.80
Economy 9 Volt Battery Straps (T-Style) — RoHS Compliant					
16	Single, 4”	235K-ND	.53	4.95	47.35
16	Single, 6”	236K-ND	.54	5.05	48.60
16	Single, 8”	237K-ND	.55	5.14	49.50
Shielded 9 Volt Battery Straps (I-Style) — RoHS Compliant					
17	Single, 4”	84-4K-ND	.57	5.34	51.30
17	Single, 6”	84-6K-ND	.59	5.55	53.20
17	Single, 8”	84-8K-ND	.60	5.64	53.90
Shielded 9 Volt Battery Straps (T-Style) — RoHS Compliant					
17	Single, 4”	81-4K-ND	.57	5.34	51.30
17	Single, 6”	81-6K-ND	.59	5.55	53.20
17	Single, 8”	81-8K-ND	.60	5.64	53.90
Vertical “9V” PC Snap-On Connector — RoHS Compliant					
18	—	968K-ND	1.05	9.84	93.50
18	Without PC Pins	68K-ND	.56	4.94	42.39
9 Volt PC Mount Snap-On Battery Contacts — RoHS Compliant					
11	Male On-Board Mount	593K-ND	.51	4.77	36.10
11	Male Off-Board Mount	635K-ND	.47	4.15	35.93
12	Female On-Board Mount	594K-ND	.57	5.03	43.20
12	Female Off-Board Mount	636K-ND	.57	4.96	42.59
“9V” Battery Snap-Ons — RoHS Compliant					
7	Stud	261K-ND	.12	1.01	9.45
8	Socket	269K-ND	.25	2.27	22.40
“9V” Battery - Protective Contact Cap — RoHS Compliant					
34	Black	96K-ND	.21	2.01	18.36
“A”, “AA” Snap-In PC Battery Clip — RoHS Compliant					
3	1 Cell	92K-ND‡	.69/2	3.27	25.00
“AAA”, “N” Snap-In PC Battery Clip — RoHS Compliant					
3	—	82K-ND‡	.69/2	3.27	25.00
“AAAA” PC Battery Clip — RoHS Compliant					
3	1 Cell - PC Mount	51K-ND‡	.35	3.27	25.00
4	1 Cell - SMT	50K-ND‡	.35	3.27	24.91
“AAA”, “N” Surface Mount Battery Clip — RoHS Compliant					
4	1 Cell - Cut Tape	55KCT-ND‡	.68	6.49	59.47
4	1 Cell - Tape and Reel	55KTR-ND‡		167.70/300	
“A” ,“AA”, “9V” Surface Mount Cell Contacts — RoHS Compliant					
20	1 Cell - Cut Tape	5231KCT-ND	.70	6.36	59.64
20	1 Cell - Tape and Reel	5231KTR-ND		138.13/250	

Fig.	Description	Digi-Key Part No.	Pricing		
			1	10	100
“A”, “AA”, “AAA” Battery Clips — RoHS Compliant					
32	A, AA - PC Mount	52K-ND	.28	2.61	20.15
32	A, AA - SMT	57K-ND	.37	3.52	24.30
32	AAA - SMT	56K-ND	.36	3.43	23.75
“A”, “AA” Snap-On Contacts — RoHS Compliant					
9	Dual Cell	210K-ND‡	.82/2	3.85	36.00
19	1 Cell	228K-ND‡	.41/2	1.94	18.35
19	Dual Cell	292K-ND‡	.82/2	3.85	36.00
20	1 Cell	209K-ND‡	.55/2	2.57	24.10
“A”, “AA”, “9V”, “N” Spring Contacts — RoHS Compliant					
22	A, AA, 9V - 1 Cell	5209K-ND	—	5.23	50.20
“A”, “AA” Battery Contacts — RoHS Compliant					
23	Dual w/Tab - Right	5211K-ND	—	3.68	35.20
23	Dual w/Tab - Left	5210K-ND	.39	3.68	35.20
24	Dual - Right	5212K-ND	—	4.51	43.20
24	Dual - Left	5242K-ND	.54	5.06	46.80
25	(+) Button	5224K-ND	—	1.43	13.75
26	(-) Spring	5202K-ND	—	2.73	26.20
27	(+) Button with tabs	5223K-ND	—	1.43	13.75
28	(-) Spring with tabs	5201K-ND	—	2.38	22.75
“AAA”, “AAAA”, “N” Battery Contacts — RoHS Compliant					
9	Dual Cell	202K-ND‡	.82/2	3.85	36.00
10	AAA - Dual Left	296K-ND	.41	3.85	36.00
10	AAA - Dual Right	295K-ND	.41	3.85	36.00
19	1 Cell	238K-ND‡	.37/2	1.75	16.55
20	1 Cell	204K-ND‡	.55/2	2.57	24.10
25	(+) Button	5225K-ND	—	1.00	9.70
26	(-) Spring	5203K-ND	—	3.68	35.20
27	(+) Button with tabs	5226K-ND	—	1.43	13.75
28	(-) Spring with tabs	5204K-ND	—	2.38	22.75
29	Dual Right Side	5213K-ND	—	3.33	32.05
30	Dual Left Side	5214K-ND	—	3.33	32.05
“A” PC Contacts — RoHS Compliant					
5	(+) Button	595K-ND	—	1.84	17.45
6	(-) Spring,	628K-ND	—	8.41	72.70
“AA”, “AAA”, “N”, “9V” PC Contacts — RoHS Compliant					
5	(+) Button	637K-ND	—	1.68	15.75
5	(+) Button, AA, N	596K-ND	.20	1.84	17.45
6	(-) Spring	629K-ND	—	8.41	72.70
21	Leaf Spring, AA, N, 9V	590K-ND	.20	1.84	17.45
21	Leaf Spring, AAA	591K-ND	.26	2.43	22.40
“A”, “AA”, “C”, “D” Battery Contacts — RoHS Compliant					
25	C (+) Contact	5240K-ND	.27	2.55	23.65
26	C (-) Contact	5241K-ND	.39	3.65	36.00
33	A, AA Spring	211K-ND	.11	1.01	9.70
33	C, D Spring	211-DK-ND	.23	2.20	21.05
Universal Battery Contacts — RoHS Compliant					
36	Coin Cell, PC Mount, Snap-In	2990K-ND	.11	1.01	7.27
37	Coin Cell, Surface Mount	2991K-ND	.11	1.01	7.27
38	AAA, AAAA, N, 12V - Off-Board	230-1K-ND	.15	1.42	12.06
Battery and Component Clips — RoHS Compliant					
31	9 Volt - 1 Cell	71K-ND	.38	3.60	34.65
31	AA - 1 Cell	91K-ND	.40	3.80	27.25
31	AAA - 1 Cell	90K-ND	.34	3.19	22.82
31	C - 1 Cell	93K-ND	.57	4.94	40.62
31	D - 1 Cell	78K-ND	.52	4.92	47.38

◆ ***RoHS Compliant*** ‡ Figs. 3, 4, 9, 19 and 20 are sold by the pair, except for Cut Tape and Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AMP Lithium CR2032 Battery Connectors

Features: • Self ejecting allows battery removal without tools • UL 94V-0 **Specifications:** • Housing: UL 94V-0 PBT • Contacts: Tin plated

Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty	Pricing	AMP Part No.
Right Angle, SMT	A99327CT-ND	2.28	1.90	1.52	A99327TR-ND	400	504.64	796136-1
Right Angle, Through Hole	A99328-ND	2.09	1.74	1.39	—	—	—	120591-1

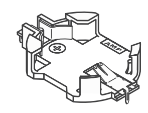
Through Hole version shown

BULGIN Battery Holders

Fig. 1
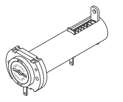
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Fig. 2
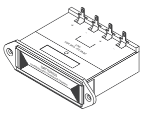

Fig. 3
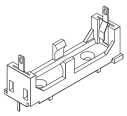

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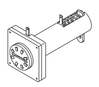
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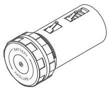
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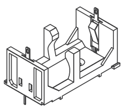

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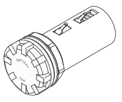
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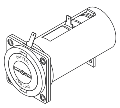
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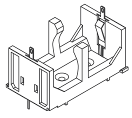

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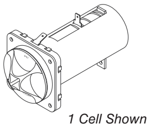
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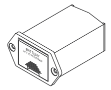

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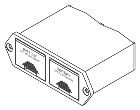

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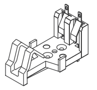

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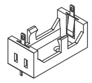

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	1 AA Cell, Flanged Panel Mount	708-1396-ND	6.50	5.97	5.31	BX0011/1
	2 AA Cell, Flanged Panel Mount	708-1397-ND	7.44	6.83	6.08	BX0012/1
	3 AA Cell, Flanged Panel Mount	708-1398-ND	7.99	7.34	6.52	BX0013/1
2	4 AA Cell, Flanged Pnl Mount, Drawer	708-1399-ND	13.20	12.12	10.77	BX0027
3	1 AAA Cell, PC/Base Mount	708-1407-ND	2.13	1.96	1.74	BX0034
	1 AA Cell, PC/Base Mount	708-1408-ND	2.13	1.96	1.74	BX0035
4	1 AA Cell, IP67 Sealed, Flanged Pnl Mount	708-1416-ND	7.94	7.29	6.48	BXS011/1
	2 AA Cell, IP67 Sealed, Flanged Pnl Mount	708-1417-ND	8.68	7.97	7.09	BXS012/1
	3 AA Cell, IP67 Sealed, Flanged Pnl Mount	708-1418-ND	9.68	8.88	7.89	BXS013/1
5	1 C Cell, Panel Mount	708-1393-ND	8.41	7.72	6.86	BX0001/1
	2 C Cell, Panel Mount	708-1394-ND	11.14	10.23	9.09	BX0002/1
	3 C Cell, Panel Mount	708-1395-ND	12.91	11.86	10.54	BX0003/1
6	1 C Cell, PC/Base Mount	708-1410-ND	2.73	2.51	2.23	BX0036
7	1 C Cell, IP67 Sealed, Panel Mount	708-1413-ND	9.43	8.66	7.70	BXS001/1
	2 C Cell, IP67 Sealed, Panel Mount	708-1414-ND	10.92	10.02	8.91	BXS002/1
	3 C Cell, IP67 Sealed, Panel Mount	708-1415-ND	12.40	11.39	10.13	BXS003/1

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
8	1 D Cell, Flanged Panel Mount	708-1400-ND	8.53	7.84	6.97	BX0016
	2 D Cell, Flanged Panel Mount	708-1401-ND	14.88	13.67	12.15	BX0017
	3 D Cell, Flanged Panel Mount	708-1402-ND	19.20	17.63	15.67	BX0018
9	1 D Cell, PC/Base Mount	708-1411-ND	2.98	2.73	2.43	BX0037
10	1 D Cell, IP67 Sealed, Flanged Pnl Mount	708-1419-ND	11.01	10.11	8.99	BXS016
	2 D Cell, IP67 Sealed, Flanged Pnl Mount	708-1420-ND	18.60	17.09	15.18	BXS017
	3 D Cell, IP67 Sealed, Flanged Pnl Mount	708-1421-ND	20.84	19.14	17.01	BXS018
11	1 9V Cell, Flanged Pnl Mount, Drawer	708-1403-ND	4.53	4.16	3.70	BX0023
	1 9V Cell, Flanged Pnl Mount, Drawer, Gray	708-1404-ND	4.53	4.16	3.70	BX0023/GY
12	2 9V Cell, Flanged Pnl Mount, Drawer	708-1405-ND	9.64	8.86	7.87	BX0026
13	1 9V Cell, PC/Base Mount	708-1409-ND	1.98	1.82	1.62	BX0033
14	1 CR123 Cell, PC/Base Mount	708-1412-ND	1.54	1.39	1.24	BX0123

AAVID THERMALLOY Heat Sinks

Fig. 1
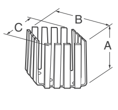

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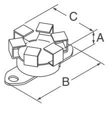

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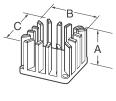

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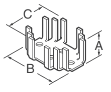

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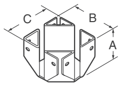

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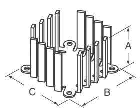

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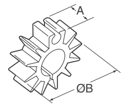

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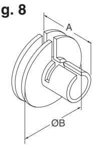

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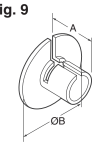

Fig.	Package Cooled	Attachment Method	Dimensions - mm A	B	C	Thermal Resistance @ Natural	Power Dissipation @ Temp. Rise	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
1	TO-3	Bolt On	19.05	47.75	35.56	10.0°C/W	4W @ 40°C	HS149-ND◆	1.22	1.03	.72	501403B00000G
	TO-3	Bolt On and Board Mounts	19.05	47.75	35.56	10.0°C/W	5W @ 50°C	HS267-ND	1.50	1.35	1.30	501403B00100
	TO-3	Bolt On and Board Mounts	19.05	47.75	35.56	10.0°C/W	4W @ 40°C	HS384-ND◆	3.59	3.23	3.11	501403B00100G
	TO-3	Bolt On and Board Mounts	25.40	47.75	35.56	8.40°C/W	5W @ 40°C	HS269-ND	1.69	1.53	1.47	501503B00100
	TO-3	Bolt On	31.75	47.75	35.56	7.80°C/W	4W @ 30°C	HS270-ND	.66	.60	.58	501603C00000
2	TO-3	Bolt On	22.10	39.12	28.57	12.5°C/W	2.5W @ 40°C	HS236-ND◆	1.23	1.11	1.07	579103B00000G
3	TO-3	Bolt On	31.75	45.97	45.97	5.40°C/W	5W @ 30°C	HS103-1.25-ND◆	6.48	5.84	5.62	568303B00000G
	TO-220, TO-218	Bolt On	12.70	45.97	45.97	8.00°C/W	5W @ 50°C	HS291-ND◆	3.32	2.99	2.88	568000B00000G
4	TO-3	Bolt On	19.05	41.40	32.77	—	—	HS140-ND◆	2.05	1.85	1.78	502203B00000
	TO-3	Bolt On	31.75	41.40	32.77	—	—	HS142-ND◆	2.63	2.37	2.28	502403B00000
5	LED	Thermal Tape, Adhesive (Not Included)	33.27	46.48	46.48	5.50°C/W	12W @ 60°C	HS296-ND◆	1.97	1.78	1.71	569000B00000G
	TO-3	Bolt On	33.27	46.48	46.48	5.50°C/W	12W @ 60°C	HS110-3-ND◆	3.28	2.96	2.30	569003B00000G
	TO-220 (Dual)	Bolt On	33.27	46.48	46.48	5.50°C/W	12W @ 60°C	HS110-220-ND◆	1.97	1.78	1.71	569022B00000G

◆ *RoHS Compliant*

(Continued)

Fig. 10

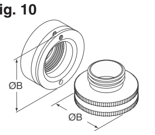

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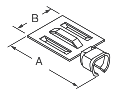

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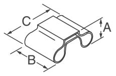

Fig. 13

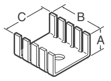

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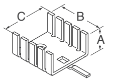

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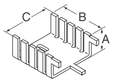

Fig. 16

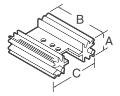

Fig. 17

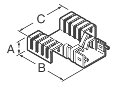

Fig. 18

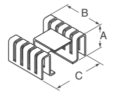

Fig. 19

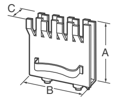

Fig. 20

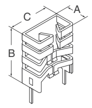

Fig. 21

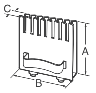

Fig. 22

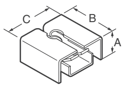

Fig. 23

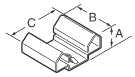

Fig. 24

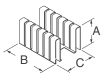

Fig. 25

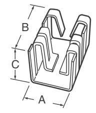

Fig. 26

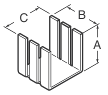

Fig. 27

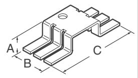

Fig.	Package Cooled	Attachment Method	Dimensions - mm			Thermal Resistance @ Natural	Power Dissipation @ Temp. Rise	Digi-Key Part No.	Price Each			Aavid Part No.
			A	B	C				1	10	100	
6	TO-3	Bolt On	12.70	45.97	45.97	7.20°C/W	6W @ 50°C	HS260-ND◆	4.65	4.19	3.26	500103B00000G
	TO-3	Bolt On	31.75	45.97	45.97	5.00°C/W	10W @ 50°C	HS264-ND◆	3.24	2.92	2.27	500403B00000G
7	TO-5	Press Fit	6.35	19.05 Dia	—	56.0°C/W	1.4W @ 70°C	HS101-ND◆	2.17	1.81	1.27	323005B00000G
	TO-5	Press Fit	6.35	12.70 Dia	—	63.0°C/W	0.6W @ 40°C	HS253-ND◆	2.23	1.86	1.30	320205B00000G
	TO-5	Press Fit	9.53	12.70 Dia	—	57.0°C/W	1.8W @ 90°C	HS259-ND◆	1.66	1.38	.97	326005B00000G
8	TO-5	Press Fit	10.16	19.05 Dia	—	56.0°C/W	0.5W @ 30°C	HS242-ND◆	2.66	2.40	1.86	322505B00000G
9	TO-5	Press Fit	6.35	19.05 Dia	—	54.0°C/W	1W @ 60°C	HS257-ND◆	2.68	2.42	1.88	322605B00000G
	TO-18	Press Fit	5.97	12.70 Dia	—	100°C/W	0.6W @ 60°C	HS100-ND◆	1.68	1.40	.98	322400B00000G
10	TO-5	Threaded Coupling	—	15.88 Dia	—	54.0°C/W	1.4W @ 70°C	HS254-ND	4.67	4.20	4.05	321127C00000
	TO-5, TO-39	Threaded Coupling	—	19.05 Dia	—	35.2°C/W	0.5W @ 20°C	HS255-ND◆	12.16	10.95	8.52	321527B00000G
11	TO-92	Press Fit	18.29	15.29	—	60.0°C/W	0.3W @ 20°C	HS251-ND◆	.41	.35	.24	575200B00000G
12	TO-126	Press Fit, Slide On	8.13	13.21	19.81	26.0°C/W	1W @ 30°C	HS216-ND◆	.41	.35	.24	577500B00000G
13	TO-220	Bolt On	6.35	19.05	13.21	32.0°C/W	1.5W @ 50°C	HS105-ND◆	.36	.30	.21	577002B00000G
	TO-220	Bolt On	9.52	19.05	13.21	25.9°C/W	3W @ 80°C	HS106-ND◆	.30	.25	.18	577102B00000G
	TO-220	Bolt On	12.70	19.05	13.21	24.4°C/W	1.5W @ 40°C	HS107-ND◆	.33	.28	.20	577202B00000G
	TO-220	Bolt On	9.65	19.05	19.05	24.0°C/W	2.5W @ 60°C	HS115-ND◆	.29	.25	.18	507302B00000G
	TO-220	Bolt On	12.70	29.97	25.40	16.7°C/W	4W @ 80°C	HS230-ND◆	.58	.49	.35	530613B00000G
	TO-220	Bolt On	12.70	29.97	25.40	16.7°C/W	4W @ 80°C	HS278-ND◆	.58	.49	.35	530614B00000G
	TO-220	Bolt On	12.70	18.03	25.41	—	2W @ 40°C	HS279-ND	.22	.20	.19	530714C00000
14	TO-220	Bolt On and PC Pin	6.35	19.05	13.21	32.0°C/W	1.5W @ 50°C	HS367-ND◆	.58	.49	.34	577002B04000G
	TO-220	Bolt On and PC Pin	9.52	19.05	13.21	25.9°C/W	1W @ 30°C	HS368-ND◆	.57	—	—	577102B04000G
15	TO-220	Bolt On and PC Pin	12.70	29.97	25.40	13.0°C/W	1W @ 20°C	HS194-ND◆	.53	.45	.31	563002B00000G
	TO-220	Bolt On and PC Pin	12.70	24.13	25.40	16.6°C/W	1W @ 20°C	HS363-ND◆	3.44	3.10	2.99	576602T00000G
16	TO-220, TO-202	Bolt On	12.70	25.40	34.93	—	2W @ 30°C	HS282-ND	.85	.77	.74	531002C00000
	TO-220	Bolt On and PC Pin	12.70	25.40	34.92	13.4°C/W	2W @ 30°C	HS351-ND◆	1.68	1.40	.98	531002B02500G
	TO-220, TO-202	Bolt On	12.70	38.10	34.92	10.4°C/W	7W @ 70°C	HS284-ND◆	4.05	3.65	3.51	531102B00000G
	TO-220	Bolt On and PC Pin	12.70	38.10	34.92	10.4°C/W	7W @ 70°C	HS352-ND◆	1.78	1.49	1.04	531102B02500G
	TO-220	Bolt On and PC Pin	12.70	38.10	34.92	11.0°C/W	8W @ 80°C	HS346-ND◆	1.49	1.25	.88	513102B02500G
	TO-220	Bolt On and PC Pin	25.40	38.10	41.91	3.70°C/W	10W @ 50°C	HS350-ND◆	2.14	1.79	1.25	529802B02500G
	TO-220, TO-202	Bolt On	12.70	25.40	34.93	13.4°C/W	3W @ 40°C	HS231-ND◆	1.55	1.29	.91	531002B00000G
	TO-220	Bolt On and PC Pin	12.70	38.10	34.92	10.4°C/W	7W @ 70°C	HS399-ND◆	5.00	4.50	4.34	531102V02500G
	TO-220, TO-202	Bolt On and PC Pin	12.70	50.80	34.92	7.50°C/W	5W @ 40°C	HS132-P-ND	5.40	4.86	4.68	531202C02500
	TO-220, TO-202	Bolt On	12.70	50.80	34.92	7.50°C/W	5W @ 40°C	HS287-ND◆	.93	.84	.81	531202B00000G
	TO-220, TO-202	Bolt On and PC Pin	12.70	50.80	34.92	7.50°C/W	5W @ 40°C	HS382-ND◆	1.93	1.61	1.13	531202B02500G
	TO-220	Bolt On	25.40	38.10	41.91	—	8W @ 40°C	HS276-ND◆	1.93	1.61	1.13	529802B00000
	TO-220	Bolt On and PC Pin	25.40	50.80	41.91	4.50°C/W	6W @ 30°C	HS374-ND◆	2.61	2.18	1.53	529902B02500G
	TO-220, TO-202	Bolt On and PC Pin	12.70	63.50	34.92	8.00°C/W	6W @ 40°C	HS386-ND◆	1.99	1.67	1.17	531302B02500G
	TO-220	Bolt On and PC Pin	25.40	63.50	41.91	2.60°C/W	20W @ 60°C	HS380-ND◆	2.43	2.03	1.42	530002B02500G
	TO-218	Bolt On and PC Pin	12.70	50.80	34.92	8.30°C/W	2W @ 20°C	HS347-ND◆	1.74	1.46	1.02	513201B02500G
	TO-218	Bolt On and PC Pin	25.40	38.10	41.91	5.00°C/W	10W @ 50°C	HS349-ND◆	2.17	1.82	1.27	529801B02500G
	TO-220	Bolt On and PC Pin	12.70	25.40	34.92	13.4°C/W	2W @ 30°C	HS403-ND◆	1.43	1.19	.84	513002B02500G
	TO-220	Bolt On and PC Pin	25.40	25.40	41.91	5.50°C/W	4W @ 30°C	HS404-ND◆	2.05	1.71	1.20	529702B02500G
17	TO-218	Clip and PC Pin	12.70	50.04	49.53	6.80°C/W	4W @ 30°C	HS340-ND◆	2.92	2.64	2.05	592201B03400G
18	D²Pak	SMD Pad	11.43	19.38	25.40	11.0°C/W	2W @ 30°C	HS406-ND◆	1.95	1.63	1.14	7109DG
19	TO-220	Clip and Board Mounts	44.45	44.45	19.05	6.30°C/W	4W @ 30°C	HS342-ND◆	3.99	3.60	2.80	530402B00150G
20	Multiwatt, SIP	Clip and PC Pin	12.70	30.99	25.40	11.5°C/W	2W @ 30°C	HS377-ND◆	1.98	1.65	1.16	566010B03400G

◆ ***RoHS Compliant***

(Continued)

Fig. 28

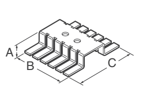

Fig. 29

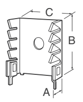

Fig. 30

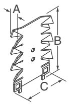

Fig. 31

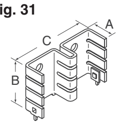

Fig. 32

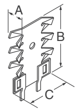

Fig. 33

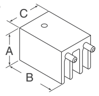

Shown with optional PC Pins

Fig. 34

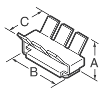

Fig. 35

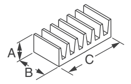

Fig. 36

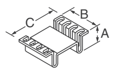

Fig. 37

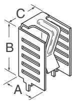

Fig. 38

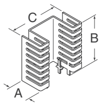

Fig. 39

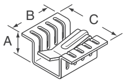

Fig. 40

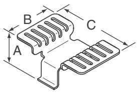

Fig. 41

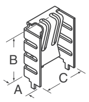

Fig. 42

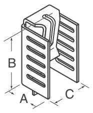

Fig. 43

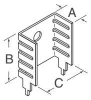

Fig. 44

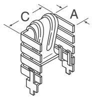

Fig.	Package Cooled	Attachment Method	Dimensions - mm			Thermal Resistance @ Natural	Power Dissipation @ Temp. Rise	Digi-Key Part No.	Price Each			Aavid Part No.
			A	B	C				1	10	100	
21	TO-218	Clip and Board Mounts	44.45	44.45	12.45	6.30°C/W	4W @ 30°C	HS335-ND◆	2.44	—	—	530101B00150G
	TO-220	Clip and Board Mounts	44.45	44.45	12.45	6.30°C/W	4W @ 30°C	HS343-ND◆	2.44	2.03	1.43	530102B00150G
22	TO-220	Clip	10.03	19.05	21.84	23.2°C/W	1.5W @ 40°C	HS111-ND◆	.37	.32	.22	574102B00000G
	TO-220	Clip	10.03	19.05	21.84	21.2°C/W	3W @ 60°C	HS198-ND◆	.37	.32	.22	574502B00000G
	TO-220	Clip and PC Pin	10.03	19.05	21.84	23.2°C/W	3W @ 60°C	HS355-ND◆	.96	.80	.56	574402B03200G
	TO-220	Clip and PC Pin	9.90	19.05	20.57	21.2°C/W	3W @ 60°C	HS357-ND◆	.71	.60	.42	574502B03300G
	TO-220	Clip and PC Pin	9.90	19.05	20.57	21.2°C/W	3W @ 60°C	HS358-ND◆	.71	.60	.42	574502B03700G
	TO-220	Clip and PC Pin	10.03	34.93	21.84	16.0°C/W	2.5W @ 40°C	HS360-ND◆	.98	.82	.57	574902B03300G
	TO-220	Clip and PC Pin	10.03	19.05	21.84	21.6°C/W	3W @ 60°C	HS359-ND◆	.92	.77	.54	574602B03700G
23	TO-220	Clip	11.18	19.05	28.45	16.8°C/W	1W @ 20°C	HS116-ND◆	.29	.26	.25	575102B00000G
	TO-220	Clip	11.18	19.05	24.89	16.8°C/W	3W @ 50°C	HS220-ND◆	.45	.38	.27	579302B00000G
24	TO-220	Bolt On	19.99	36.83	25.55	12.4°C/W	1.5W @ 20°C	HS193-ND◆	.89	.75	.52	551002B00000G
25	TO-220, TO-262	Clip and PC Pin	12.70	19.05	12.70	27.3°C/W	1W @ 30°C	HS341-ND◆	.75	.63	.44	576802B03100G
	TO-220, TO-262	Clip	12.70	19.05	12.70	27.3°C/W	1.5W @ 40°C	HS121-ND◆	.52	.44	.31	576802B00000G
	TO-220, TO-262	Clip	12.70	15.24	12.70	26.8°C/W	1W @ 40°C	HS333-ND◆	.66	.55	.39	591202B00000G
	TO-220, TO-262	Clip and PC Pin	12.70	19.00	12.70	27.3°C/W	1W @ 30°C	HS364-ND◆	.79	—	—	576802B03700G
	TO-220, TO-262	Clip and PC Pin	12.70	19.05	12.70	27.3°C/W	1W @ 30°C	HS365-ND◆	.66	.56	.39	576802B03900G
	TO-220, TO-262	Clip and PC Pin	12.70	19.05	12.70	27.3°C/W	1W @ 30°C	HS366-ND◆	.93	.78	.55	576802B04100G
	TO-220, TO-262	Clip and Board Locks	12.70	19.05	12.70	26.8°C/W	1W @ 30°C	HS371-ND◆	.98	.82	.58	591302B02800G
	TO-220, TO-262	Clip and PC Pin	12.70	19.05	12.70	27.3°C/W	1W @ 30°C	HS337-ND◆	.72	.60	.42	576802B04000G
26	TO-220 (Dual)	Bolt On	21.59	36.83	19.81	6.40°C/W	4W @ 40°C	HS104-2-ND◆	.66	.56	.39	504222B00000G
	TO-220	Bolt On	21.60	17.80	19.80	15.6°C/W	2W @ 40°C	HS104-1-ND◆	.42	.35	.25	504102B00000G
27	TO-220	Bolt On	9.52	17.78	44.45	15.6°C/W	2W @ 40°C	HS112-ND◆	.37	.32	.22	507002B00000G
28	TO-220 (Dual)	Bolt On	9.52	37.34	44.45	9.60°C/W	8W @ 70°C	HS114-ND◆	.68	.57	.40	507222B00000G
29	TO-220	Bolt On and PC Pin	12.70	29.97	23.93	13.4°C/W	1W @ 20°C	HS336-ND◆	1.06	.89	.62	593002B03400G
	TO-220	Clip and Board Locks	12.70	29.97	25.40	13.4°C/W	1W @ 20°C	HS375-ND◆	1.83	1.53	1.07	534202B02853G
	TO-220	Clip and Board Locks	12.70	29.97	25.40	13.4°C/W	1W @ 20°C	HS405-ND◆	1.22	1.02	.71	534202B03453G
30	TO-220	Bolt On and PC Pin	12.19	50.80	35.05	10.4°C/W	6W @ 60°C	HS373-ND◆	1.24	1.04	.73	593202B03500G
	TO-220	Clip and PC Pin	12.19	50.80	35.05	10.4°C/W	6W @ 60°C	HS420-ND◆	2.64	2.20	1.54	534302B03553G
31	TO-220 (Dual)	Bolt On and PC Pin	12.70	25.40	37.59	13.2°C/W	2W @ 30°C	HS369-ND◆	1.29	1.08	.76	578622B03200G
32	TO-220	Bolt On and PC Pin	6.35	31.75	22.20	22.0°C/W	1W @ 30°C	HS372-ND◆	.89	.75	.53	592502B03400G
	TO-220	Clip and Board Locks	12.19	50.80	35.05	—	6W @ 60°C	HS238-ND	.77	.70	.67	594302B02853
	TO-220	Clip and Board Locks	12.19	50.80	35.05	—	6W @ 60°C	HS379-ND◆	1.77	1.60	1.54	594302B02853G
33	TO-220	Bolt On	16.26	25.40	16.26	—	2.5W @ 50°C	HS300-ND◆	1.90	1.58	1.11	581002B00000
	TO-220	Bolt On and PC Pin	16.26	25.40	16.26	17.4°C/W	2.5W @ 50°C	HS387-ND◆	1.93	1.61	1.13	581002B02500G
	TO-220	Bolt On	16.26	38.10	16.26	—	3W @ 50°C	HS303-ND◆	.92	.83	.80	581102B00000
	TO-220	Bolt On and PC Pin	16.26	38.10	16.26	16.8°C/W	3W @ 50°C	HS388-ND◆	2.00	1.67	1.17	581102B02500G
34	14-DIP and 16-DIP	Press Fit, Slide On	10.42	22.61	15.24	20.0°C/W	1W @ 20°C	HS179-ND◆	.52	.44	.31	580200B00000G
	24-DIP	Press Fit, Slide On	14.73	37.08	25.60	20.0°C/W	1W @ 20°C	HS182-ND◆	.94	.85	.82	580500B00000G
35	14-DIP and 16-DIP	Thermal Tape, Adhesive (Not Included)	4.83	6.35	18.57	68.0°C/W	0.4W @ 30°C	HS227-ND◆	.91	.76	.54	501200B00000G
	24-DIP	Thermal Tape, Adhesive (Not Included)	4.83	31.75	13.46	34.0°C/W	1W @ 40°C	HS273-ND◆	1.03	.86	.60	508500B00000G
36	DPak	SMD Pad	10.16	8.00	22.86	15.0°C/W	0.75W @ 30°C	HS407-ND◆	1.05	.88	.62	573100D00000G
	D²Pak	SMD Pad	10.16	12.70	26.16	18.0°C/W	1.25W @ 30°C	HS408-ND◆	1.02	.86	.60	573300D00000G
37	TO-220	Clip and PC Pin	13.08	21.54	13.21	19.7°C/W	1W @ 30°C	HS409-ND◆	1.13	.94	.66	7136DG
38	TO-220	Bolt On and PC Pin	24.13	49.53	48.26	4.40°C/W	3W @ 20°C	HS410-ND◆	1.98	1.65	1.16	7023B-MTG
39	TO-220	Clip	9.52	17.78	22.86	25.0°C/W	2W @ 50°C	HS411-ND◆	.61	.51	.36	6237BG
40	D²Pak	SMD Pad	9.52	14.99	25.91	15.0°C/W	2W @ 40°C	HS412-ND◆	2.14	1.78	1.25	7106DG
41	TO-220	Clip and PC Pin	9.52	27.94	22.00	19.2°C/W	1.5W @ 40°C	HS413-ND◆	1.45	1.22	.85	7128DG
42	TO-220	Clip and PC Pin	13.08	19.81	13.21	20.3°C/W	1W @ 30°C	HS414-ND◆	4.56	3.80	2.66	7141DG
43	TO-220	Bolt On and PC Pin	9.52	19.05	19.05	25.8°C/W	1.5W @ 50°C	HS415-ND◆	.62	.52	.37	7173DG
44	TO-220	Clip and PC Pin	15.49	—	25.53	13.6°C/W	2W @ 40°C	HS416-ND◆	1.44	1.20	.84	6238B-MTG
—	TO-220, Mounting Kit							HS417-ND◆	3.11	2.80	2.18	4880G
	Insulating Shoulder Washer							HS418-ND◆	.25	.21	.15	7721-7PPSG
	Thermal Interface Pad							HS419-ND◆	.32	.27	.19	53-77-9G

◆ ***RoHS Compliant***

Fig.	Description	Dimensions – Inch (mm)			Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel Pricing		Aavid Part No.
		A	B	C		1	10		250	500	
36	SMT D2 Pak Heat Sink, Auto-Insertable, Pre-Tinned	.40 (10.16)	.50 (12.70)	1.03 (26.16)	HS338CT-ND	1.13	.95	HS338TR-ND	165.38	283.50	573300D00010G

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

AAVID THERMALLOY

BGA Heat Sinks

Aavid Thermalloy's innovative BGA heat sinks include standard solutions to support the most demanding applications.
Features: • Flat base • Light weight • Long-term reliability

Tape Attachment Method

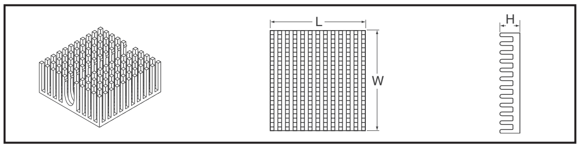

Features and Benefits:

- Tape mounted versions eliminate the need for mounting holes in the PC Board
- These Heat Sinks can be used with either plastic or metal/ceramic BGA Packages
- These Heat Sinks are compatible with Ther-a-grip Tapes

Finish: Black Anodize

Tape Surface	Dimensions – mm			Thermal Resistance Natural†	Thermal Resistance Forced‡	Digi-Key Part No.	Price Each			Aavid Part No.
	W	L	H				1	10	100	
Plastic	27.0	27.0	18.0	20.3	6.46	HS319-ND◆	1.33	1.20	1.16	374424B00035G
Plastic	35.0	35.0	7.0	31.9	9.67	HS393-ND◆	2.61	2.35	2.27	371824B00034G
Metal	35.0	35.0	10.0	23.4	7.55	HS395-ND◆	4.46	4.02	3.87	374624B00032G
Plastic	35.0	35.0	10.0	23.4	7.55	HS321-ND◆	5.66	5.10	4.91	374624B00035G
Metal	35.0	35.0	18.0	15.3	5.15	HS322-ND	2.48	2.24	2.15	374724B00032
Plastic	35.0	35.0	18.0	15.3	5.15	HS323-ND◆	2.55	2.30	2.21	374724B00035G
Metal	37.4	37.4	6.0	32.6	9.91	HS394-ND◆	5.79	5.21	5.02	373324M00032G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
◆ *RoHS Compliant*

Push Pin Attachment Method

Features and Benefits:

- All Heat Sinks utilize industry standard hole patterns
- Plastic push pins are standard. Consult Aavid Thermalloy for versions available with brass push pins for more rugged applications
- Minimal diameter holes are necessary for mounting to PC Board

Finish: Green Anodize

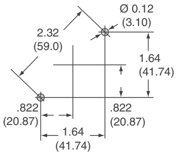

PCB Hole Pattern

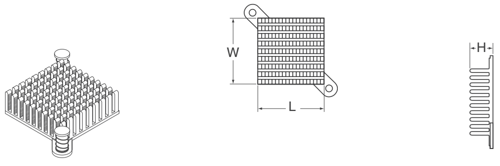

Dimensions – mm			Thermal Resistance Natural†	Thermal Resistance Forced‡	Digi-Key Part No.	Price Each			Aavid Part No.
W	L	H				1	10	100	
37.4	37.4	6.0	32.6	9.91	HS308-ND	3.24	2.92	2.81	372924M02000G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Clip Attachment Method

Features and Benefits:

- A unique clip eliminates the need for mounting holes in the PC Board
- Each Heat Sink utilizes a Phase Change Pad as the interface for optimal thermal performance
- The clips unique design eliminates the need for thermal tape attachment

Finish: Black Anodize

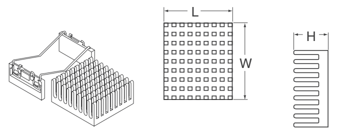

Dimensions – mm			Thermal Resistance Natural†	Thermal Resistance Forced‡	Digi-Key Part No.	Price Each			Aavid Part No.
W	L	H				1	10	100	
34.5	31.4	15.6	19.7	6.30	HS309-ND	3.61	3.25	3.13	2519B-EP11-BGS5G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Solder Anchor Attachment Method

Features and Benefits:

- Solder Anchors provide the most rugged mounting in the industry

Note:

Solder anchors must be soldered to the PCB prior to attaching the heat sink clip.

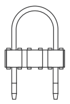

Description	Digi-Key Part No.	Price Each			Aavid Part No.
		1	10	100	
Solder Anchor	HS400-ND	.63	.53	.37	125700D00000G

Panasonic®

"PGS" (Pyrolytic Graphite Sheet) Heat Sink Sheets

PGS is a thermal interface material which is very thin, synthetically made, has high thermal conductivity, and is made from a highly oriented graphite polymer film. It is ideal for providing thermal management/heat-sinking in limited spaces or to provide supplemental heat-sinking in addition to conventional means. This material is flexible and can be cut into customizable shapes.

Features:
• Excellent Thermal Conductivity (2 ~ 4 times as high as copper, 3 ~ 6 times as high as aluminum) • Lightweight: Specific Gravity: 0.85 ~ 2.1 g/cm3 (1/4 ~ 1/10 of copper, 1/1.3 ~ 1/3 of aluminum in density) • Flexible and easy to be cut or trimmed (withstands repeated bending) • Low Thermal Resistance

Application Examples:
• Notebook PCs, DVDs, DVCs, Mobile Phones • Semiconductor Manufacturing Equipment (Sputtering, Dry Etching, Steppers) • Optical Communications Equipment

Characteristics	Specifications		
Thickness	0.1 ±0.03mm	0.07 ±0.015mm	0.025 ±0.01mm
Density	0.85 g/cm3	1.1 g/cm3	2.1 g/cm3
Thermal Conductivity (a-b plane)	600 ~ 800 W/(m.K)	750 ~ 950 W/(m.K)	1500 ~ 1700 W/(m.K)
Electrical Conductivity	10000 S/cm	10000 S/cm	20000 S/cm
Expansion Coefficient (a-b plane)	9.3 x 10-7 1/K		
Expansion Coefficient (c axis)	3.2 x 10-5 1/K		
Heat Resistance	400°C		
Bending (angle, R5)	10000 cycles		

Dimensions L x W (mm)	Digi-Key Part No.	Price Each	Panasonic Part No.
125 x 180	P11438-ND	83.71	EYG-S131810
125 x 90	P11439-ND	46.04	EYG-S091310
115 x 180	P13689-ND	57.19	EYG-S121807
115 x 180	P13691-ND	57.19	EYG-S121803
90 x 115	P12726-ND	29.19	EYG-S091210
90 x 115	P13688-ND	28.60	EYG-S091207
90 x 115	P13690-ND	28.60	EYG-S091203
60 x 90	P11440-ND	23.94	EYG-S060910
57 x 90	P12727-ND†	26.87	EYG-M060910SS
57 x 90	P12728-ND‡	15.96	EYG-A060910P
57 x 90	P12729-ND‡	15.96	EYG-A060910B

† With Silicon ‡ With Tape

ITW Chemtronics®

Heat Sink Grease

For fast heat transfer from components.

Features:
• Nonflammable • Noncorrosive • Silicon • Will not dry out, harden or melt • 5 oz. tube • Meets MIL-C-47113
• Stable from: -40°F ~ 392°F (-40°C ~ 200°C)

Digi-Key Part No.	Price Each			ITW Chemtronics Part No.
	1	25	100	
CT40-5-ND	24.78	22.31	17.97	CT40-5

Heat Sinks

Fig. 1

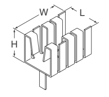

Fig. 2

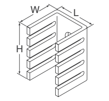

Fig. 3

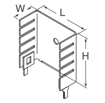

Fig. 4

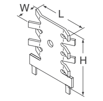

Fig. 5

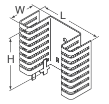

Fig. 6

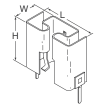

Fig. 7

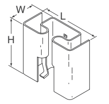

Fig. 8

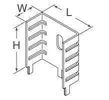

Fig. 9

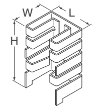

Fig. 10

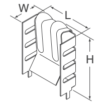

Fig. 11

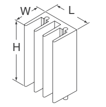

Fig.	Description	Dimensions – mm W x L x H	Mounting Type	Digi-Key Part No.	Price Each 1	10	100	Comair-Rotron Part No.
1	TO-220/TO-262; Aluminum; 1.2mm thick with Black Anodized Finish, Integrated Spring	19.0 x 12.8 x 12.7	1 Solderable Tab	CR467-ND	.53	.39	.31	831402B00000
2	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 19.0 x 19.0	Device Leads	CR482-ND	.53	.39	.31	821502B00000
3	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	6.4 x 13.3 x 19.1	1 Solderable Tab	CR489-ND†	.50	.37	.29	821002B04000
4	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	5.4 x 22.5 x 30.3	2 Solderable Tabs	CR481-ND	.70	.52	.41	811102B00000
5	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.7 x 44.5 x 36.8	2 Solderable Tabs	CR503-ND‡	1.63	1.21	.95	826002B05300
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	24.1 x 48.3 x 23.6	2 Solderable Tabs	CR507-ND‡	.95	.71	.56	825902B05300
6	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR484-ND†	.58	.43	.34	833202B03300
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Step Tabs	CR486-ND†	.55	.41	.32	833202B03700
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR487-ND†	.68	.50	.40	833202B04800
7	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	Device Leads	CR485-ND	.40	.30	.24	833202B00000
8	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 25.4 x 30.0	2 Mechanical Tabs	CR494-ND†	.30	.27	.24	821902B00000
	TO-220; Copper, 1.2mm thick with Black Paint Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR497-ND†	1.98	1.47	1.15	8256BPT00000
	TO-220; Copper, 1.2mm thick with Tin Plate Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR498-ND†	1.13	.84	.66	825600T00000
9	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR465-ND†	.33	.29	.26	831302B00000
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR468-ND†	.50	.37	.29	831502B03900
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Step Tab	CR469-ND†	.55	.41	.32	831502B03700
10	TO-220; Copper, 0.6mm thick with Tin Plate Finish, Integrated Spring	9.5 x 22.0 x 28.0	2 Solderable Tabs	CR506-ND	.90	.67	.53	833702T00000
11	TO-218/TO-220; Extruded Aluminum with Black Anodized Finish	16.0 x 16.5 x 50.8	2 Solderable Pins	CR517-ND‡	1.73	1.28	1.01	412320B02500

† See data sheets for specific Board Mount ‡ See data sheets for specific Component Mounting Hole Patterns

Innovative Technology
for a Connected World

NEW! Thermal Products

Tgon™ 800 Series Electrically and Thermally Conductive Interface Pads

Used where electrical isolation is not required, Tgon 800 is ideal where electrical contact and thermal transfer are desired. Its unique grain-oriented, plate-like structure provides a high thermal conductivity of 240 W/mk in the XY plane and 5 W/mk through the z-axis. Tgon 800 is supplied in 12" x 18" (305mm x 457mm) sheets. It is also available with proprietary pressure sensitive adhesive on one side. This adhesive coating is the thinnest available, minimizing any impact on thermal performance. **Features:** • High thermal conductivity • >98% graphite • Low thermal resistance **Applications:** • Power conversion equipment • Power supplies • Large telecommunications switching hardware • Where electrical grounding is required with good thermal conductivity

Description	Thermal Resistance @ 100 psi (C-in²/W)	Digi-Key Part No.	Price Each 1	10	50	Laird Technologies Part No.
No Adhesive						
805 Series; 0.005"(0.127mm) Thickness; 12" x 18" sheets	0.07	926-1008-ND	10.13	7.41	6.55	A10462-03
810 Series; 0.010"(0.254mm) Thickness; 12" x 18" sheets	0.10	926-1010-ND	11.72	8.57	7.58	A10463-01
820 Series; 0.020"(0.508mm) Thickness; 12" x 18" sheets	0.17	926-1012-ND	12.72	9.74	8.62	A10464-01
With Adhesive						
805 Series; 0.005"(0.127mm) Thickness; 12" x 18" sheets	0.07	926-1009-ND	13.53	10.36	9.17	A10462-02
810 Series; 0.010"(0.254mm) Thickness; 12" x 18" sheets	0.10	926-1011-ND	16.17	12.38	10.96	A10463-02
820 Series; 0.020"(0.508mm) Thickness; 12" x 18" sheets	0.17	926-1013-ND	19.43	14.87	13.16	A10464-02

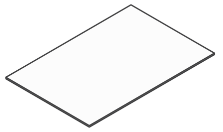

T-grease™ 880, 1500 and 2500 Series Thermal Grease

880 Series: T-grease 880 is a silicone based, high performance thermal grease designed to meet the thermal, reliability and price requirements of high end CPUs, GPUs and custom ASICS chips. **Features:** • Temperature Range: -40°C ~ 150°C (-40°F ~ 302°F) • Thermal Conductivity: 3.1 W/mK UL Flammability Rating: 94 V0 File E180840

1500 Series: T-grease 1500 is environmentally safe, silicone-based thermal grease designed to solve overheating and reliability issues. **Features:** • Maximum Operating Temperature: 125°C • Thermal Conductivity: 1.2 W/mk

2500 Series: T-grease 2500 is a silicone-free thermal grease for use in high performance CPUs and GPUs and has a high thermal conductivity. **Features:** • Temperature Range: -55°C ~ 150°C • Thermal Conductivity: 3.8 W/mk UL Flammability Rating: 94 V0

Note: See Digi-Key website for soldering tips for syringes

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Laird Technologies Part No.
1	T-grease 880 Series; 30cc Jar	926-1007-ND	22.93	18.25	16.36	A16241-03
	T-grease 1500 Series; 30cc Jar	926-1004-ND	16.47	12.61	11.16	A16241-01
	T-grease 2500 Series; 30cc Jar	926-1006-ND	21.75	16.65	14.74	A16241-02
2	T-grease 1500 Series; 10cc Syringe	926-1003-ND	42.97	34.18	30.65	A15423-02
	T-grease 2500 Series; 10cc Syringe	926-1001-ND	55.45	45.94	42.24	A14399-01
3	T-grease 1500 Series; 30cc Syringe	926-1000-ND	63.33	52.47	48.25	A15423-03
	T-grease 2500 Series; 30cc Syringe	926-1002-ND	68.19	56.49	51.95	A14399-02

Fig. 1 – 30cc Jar

Fig. 2 – 10cc Syringe

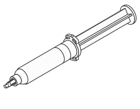

Fig. 3 – 30cc Syringe

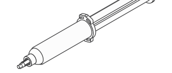

Ceramic Plate Series "Peltier" Modules

The Ceramic Plate (CP) Series of Thermoelectric Modules (TEMs) is considered "the standard" in the thermoelectric industry. This broad product line of high-performance and highly reliable TEMs is available in numerous heat pumping capacities, geometric shapes, and input power ranges.

Features:
• Precise temperature control • Compact geometric sizes • Reliable solid state operation • No sound or vibration • Environmentally friendly • DC operation

Note: Size and type varies

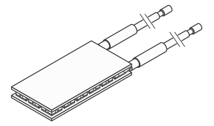

Description	Outline L x W x H (mm)	Voltage max (V) @25°C	Qmax (W) @25°C	Digi-Key Part No.	Price Each 1	10	50	Laird Technologies Part No.
CP08,127,05	25.00 x 25.00 x 3.10	15.4	22.4	926-1014-ND	41.68	33.15	29.72	62910-510
CP08,127,06	24.64 x 24.64 x 3.40	14.4	18.1	926-1015-ND	38.49	30.62	27.45	66195-505
CP08,31,06	12.29 x 12.29 x 3.40	3.7	4.5	926-1016-ND	25.56	20.34	18.23	71035-505
CP08,63,06	24.56 x 12.29 x 3.40	7.6	9.0	926-1017-ND	42.70	33.97	30.46	71036-505
CP085,127,06	29.72 x 29.72 x 3.58	14.5	20.0	926-1018-ND	41.27	32.83	29.43	71212-502
CP10,127,05	29.72 x 29.72 x 3.20	14.4	34.3	926-1019-ND	24.02	19.11	17.13	56460-501
CP10,127,06	29.72 x 29.72 x 3.61	14.5	25.7	926-1020-ND	23.10	18.38	16.47	56310-503
CP10,127,08	29.72 x 29.72 x 3.99	14.5	21.4	926-1021-ND	34.80	27.68	24.82	63205-501
CP10,254,06	29.72 x 29.72 x 3.58	29.0	52.9	926-1022-ND	44.86	35.69	31.99	71012-506
CP10,31,05	15.00 x 15.00 x 3.20	3.8	8.2	926-1023-ND	21.80	16.69	14.77	430801-504
CP10,31,08	15.00 x 15.00 x 3.99	3.8	5.3	926-1024-ND	21.76	17.31	15.52	63604-511

Description	Outline L x W x H (mm)	Voltage max (V) @25°C	Qmax (W) @25°C	Digi-Key Part No.	Price Each 1	10	50	Laird Technologies Part No.
CP10,63,05	29.72 x 15.00 x 3.20	7.6	16.6	926-1025-ND	22.79	18.13	16.26	56430-501
CP10,63,06	29.72 x 15.00 x 3.58	7.6	12.7	926-1026-ND	22.28	17.72	15.89	43280-503
CP10,71,06	22.60 x 22.60 x 3.58	8.6	14.4	926-1027-ND	25.77	20.50	18.38	430436-504
CP12,161,04	39.88 x 39.88 x 3.20	18.4	79.2	926-1028-ND	31.31	24.91	22.33	430848-502
CP12,161,06	39.88 x 39.88 x 3.61	18.3	52.2	926-1029-ND	32.85	26.13	23.43	430848-504
CP14,127,045	39.88 x 39.88 x 3.33	14.5	72.0	926-1030-ND	26.79	21.32	19.11	56910-502
CP14,127,06	39.88 x 39.88 x 3.81	14.5	51.4	926-1031-ND	26.28	20.91	18.74	56760-505
CP14,127,10	39.88 x 39.88 x 4.70	14.4	33.4	926-1032-ND	36.24	28.83	25.84	56610-502
CP14,31,10	19.81 x 19.81 x 4.70	3.8	8.2	926-1033-ND	31.10	24.74	22.18	56550-501
CP14,35,045	29.72 x 14.86 x 3.33	4.0	20.4	926-1034-ND	35.41	28.17	25.26	56860-501
CP14,7,10	9.50 x 9.50 x 4.70	0.7	1.8	926-1035-ND	33.46	26.62	23.87	56500-501
CP14,71,045	29.72 x 29.72 x 3.33	8.0	41.3	926-1036-ND	22.79	18.13	16.26	56890-503
CP14,71,06	29.72 x 29.72 x 3.81	8.1	28.7	926-1037-ND	23.40	18.62	16.69	430705-503
CP14,71,10	29.72 x 29.72 x 4.70	8.6	18.7	926-1038-ND	25.46	20.25	18.16	56590-502
CP2,127,06	62.00 x 62.00 x 4.57	14.5	122.3	926-1039-ND	59.57	49.35	45.38	66100-501
CP2,127,10	62.00 x 62.00 x 5.59	14.5	79.8	926-1040-ND	61.14	50.65	46.58	64979-501
CP2,31,06	29.72 x 29.72 x 4.57	3.5	29.3	926-1041-ND	22.79	18.13	16.26	57125-501
CP2,31,10	29.72 x 29.72 x 5.59	3.8	18.8	926-1042-ND	24.33	19.36	17.35	56995-501
CP2,71,06	43.94 x 43.94 x 4.57	8.1	68.4	926-1043-ND	31.41	24.99	22.40	57180-501

WAKEFIELD SOLUTIONS Heat Sinks

Wakefield Solutions is recognized as a worldwide leader in innovative thermal management solutions. Their products range from board level heat sinks for both surface mount and thru-hole, to fan mounted heat sinks for microprocessors and CPUs. Wakefield Solutions offers a single source for all of your thermal requirements. DeltaPads are replacements to heat sink grease but without any mess. They are heat conducting, electrically isolating pads to go between the heat sink and your semiconductor device. TO-220 heatsinks will also fit TO-202 and TO-126 packages.

Fig. 1

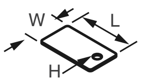

Fig. 2

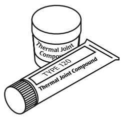

Fig. 3

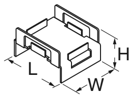

Fig. 4

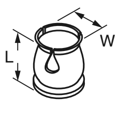

Fig. 5

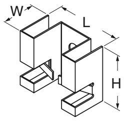

Fig. 6

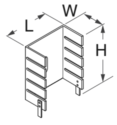

Fig. 7

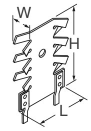

Fig. 8

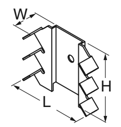

Fig. 9

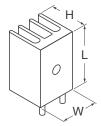

Fig. 10

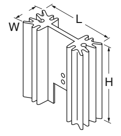

Fig. 11

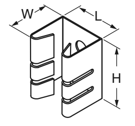

Fig. 12

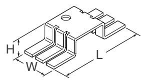

Fig. 13

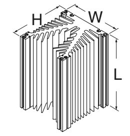

Fig. 14

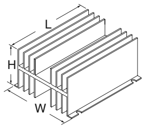

Fig. 15

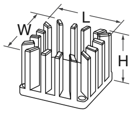

Fig. 16

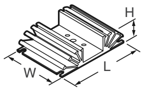

Fig. 17

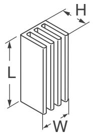

Fig. 18

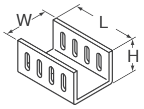

Fig. 19

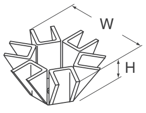

Fig. 20

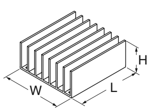

Fig. 21

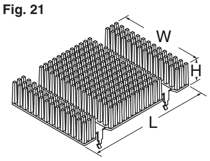

Fig. 22

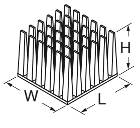

Fig. 23

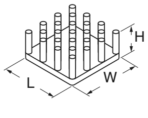

Fig.	Description	Dimensions – mm	Digi-Key	Price Each			Wakefield
		L x W x H	Part No.	1	10	100	Part No.
1	DeltaPad Thermal Pad, TO-220, No Adhesive (.18mm)	18.0 x 12.7 x 3.6 dia.	345-1000-ND◆	.57	.48	.34	173-7-220P
	DeltaPad Thermal Pad, TO-220, Adhesive (.18mm)	19.1 x 12.7 x 3.7 dia.	345-1079-ND◆	.75	.63	.44	173-7-240A
	DeltaPad Thermal Pad, TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.2 dia.	345-1080-ND◆	.47	.39	.28	173-9-230P
	DeltaPad Thermal Pad, TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.7 dia.	345-1001-ND◆	.84	.70	.49	173-9-240P
	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	18.0 x 12.7 x 3.6 dia.	345-1002-ND◆	.44	.37	.26	175-6-220P
	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.2 dia.	345-1003-ND◆	.34	.29	.20	175-6-230P
	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.7 dia.	345-1004-ND◆	.37	.31	.22	175-6-240P
	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	21.8 x 18.8 x 4.1 dia.	345-1005-ND◆	.59	.50	.35	175-6-280P
2	Silicon Thermal Grease, 4 gram Plastic Pack	—	345-1006-ND◆	4.79	4.31	3.36	120-SA
	Silicon Thermal Grease, 2 Oz. Jar	—	345-1007-ND◆	12.55	11.30	8.79	120-2
	Silicon Thermal Grease, 5 Oz. Tube	—	345-1008-ND◆	26.57	18.61	15.95	120-5
	Silicon Thermal Grease, 8 Oz. Jar	—	345-1009-ND◆	36.56	25.60	21.94	120-8
	Silicon Thermal Grease, 5 Lbs. Can	—	345-1010-ND◆	205.38	143.77	123.23	120-80
	Synthetic Non-Silicon Thermal Compound, 4 Oz Tube	—	345-1011-ND◆	28.57	20.00	17.14	126-4
3	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	18.80 x 15.24 x 9.14	345-1012-ND	.47	.39	.28	217-36CT6
	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	18.80 x 15.24 x 9.14	345-1099-ND◆	.47	.39	.25	217-36CTE6
4	TO-5 Clip-On Cup Style With 4-40 Thread Base	9.40 x 9.65 dia.	345-1013-ND◆	15.83	14.25	11.08	260-4T5E
5	TO-220, Self-Locking, Horizontal/Vertical Mount, Black	25.40 x 12.70 x 21.59	345-1016-ND◆	.60	.50	.35	235-85AB
6	TO-220, Vertical Mount Wave-Solderable, With Tabs, Black	25.40 x 12.70 x 29.97	345-1018-ND	1.68	1.40	.98	287-1AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	25.40 x 12.70 x 18.03	345-1019-ND◆	.39	.33	.23	289AB
	TO-220, Dual Low Cost Horizontal/Vertical Mount, Black	25.40 x 12.70 x 29.97	345-1020-ND◆	.54	.45	.32	290-1AB
	TO-220, Dual Mount Low Cost, Black	25.40 x 12.70 x 29.97	345-1021-ND◆	.54	.45	.32	290-2AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	19.05 x 9.52 x 19.05	345-1022-ND◆	.51	.43	.30	273-AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	13.21 x 9.52 x 19.05	345-1023-ND	.30	.25	.18	274-1AB
7	TO-220, Vertical Mount Wave-Solderable, With Tabs	22.23 x 5.46 x 31.75	345-1024-ND	1.53	1.28	.90	288-1AB
8	TO-220, Self-Locking, Vertical Mount, Black	25.40 x 9.14 x 21.84	345-1025-ND◆	.78	.65	.46	291-H36AB
9	TO-220, Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 25.40	345-1026-ND	2.40	2.00	1.40	634-10ABP
	TO-220, Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 38.1	345-1091-ND	2.58	2.15	1.51	634-15ABP
	TO-220, Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 50.80	345-1027-ND	2.70	2.25	1.58	634-20ABP
10	TO-220, Power Vertical Mount With Pins, Black	34.93 x 12.70 x 25.40	345-1028-ND	2.04	1.70	1.19	637-10ABP
	TO-220, Power Vertical Mount With Pins, Black	34.93 x 12.70 x 38.10	345-1029-ND	2.10	1.75	1.23	637-15ABP
	TO-220, Power Vertical Mount With Pins, Black	34.93 x 12.70 x 50.80	345-1030-ND	2.52	2.10	1.47	637-20ABP
	TO-220, Power Vertical Mount With Pins, Black	41.91 x 25.40 x 25.40	345-1031-ND	2.40	2.00	1.40	647-10ABP
	TO-220, Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1032-ND	2.64	2.20	1.54	647-15ABP
	TO-220, Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1033-ND	2.16	1.80	1.26	657-15ABP
	TO-220, Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1034-ND	2.16	1.80	1.26	657-15ABPN
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 50.80	345-1035-ND	2.64	2.20	1.54	657-20ABP
	TO-220 Pwr. SpeedClip Mount With Pins (Order clip below)	34.93 x 12.70 x 25.40	345-1037-ND	2.79	2.33	1.63	667-10ABPP
—	SpeedClip, Stainless Steel for 667 Series	—	345-1039-ND◆	.84	.70	.49	330SC
11	TO-220, Self-Locking Horizontal/Vertical Mount, Black	14.48 x 12.70 x 19.05	345-1040-ND◆	.51	.43	.30	230-75AB
12	TO-220, Low Cost Horizontal/Vertical Mount, Black	44.45 x 9.52 x 17.78	345-1041-ND◆	.42	.35	.25	270-AB
	TO-220, Top Mount Booster for 270, 272, 280 Series, Black	44.45 x 12.70 x 17.78	345-1042-ND◆	.51	.43	.30	271-AB
	TO-220, Dual Mount Horizontal, Black	44.45 x 9.52 x 36.83	345-1043-ND◆	.60	.50	.35	272-AB
13	IGBT and SSRs Power Modules, Black	180.01 x 124.97 x 135.64	345-1046-ND◆	198.18	138.73	118.91	392-180AB
14	TO-3, Power Horizontal Mount, Double Fin, Black	38.10 x 120.65 x 31.75	345-1047-ND◆	16.70	15.03	11.69	401A
	Power Heat Sink, Horizontal, Double Fin, No Holes	38.10 x 120.65 x 31.75	345-1048-ND◆	16.70	15.03	11.69	401K
	Power Heat Sink, Horizontal, Double Fin, No Holes	76.20 x 120.65 x 66.55	345-1049-ND◆	17.60	13.69	11.73	421K
	Power Heat Sink, Horizontal, Double Fin, No Holes	139.70 x 120.65 x 66.55	345-1050-ND◆	29.60	20.72	17.76	423K
15	TO-3, Power Horizontal Mount, Omnidirectional, Black	45.97 x 45.97 x 31.75	345-1051-ND◆	14.28	12.85	10.00	680-125A
16	TO-3, Heavy Duty Power, Horizontal Mount, Black	104.78 x 76.20 x 25.40	345-1052-ND◆	14.40	12.96	10.08	641A
	Power Heat Sink, Horizontal Mount, No Holes, Black	104.78 x 76.20 x 25.40	345-1053-ND◆	14.40	12.96	10.08	641K
17	14-16 Dip, IC Heat Sink, Glue On, Black	19.05 x 10.54 x 6.10	345-1054-ND◆	1.74	1.45	1.02	651-B
18	TO-220, Low-Height Wave-Solderable, Black	19.1 x 12.7 x 13.2	345-1087-ND◆	.30	.25	.18	274-2AB
19	Stud-Mount, Black, ID=5.1mm	— x 33.8 x 12.3	345-1095-ND◆	1.77	1.48	1.04	695-1B
20	Half Brick DC/DC Converter, Vertical, Black	57.91 x 60.96 x 24.13	345-1055-ND◆	5.48	4.93	3.84	518-95AB
	Half Brick DC/DC Converter With Hardware/Thermal Pad	57.91 x 60.96 x 24.13	345-1056-ND◆	9.15	8.24	6.41	518-95AB-MS4
	Half Brick DC/DC Converter Vertical, Black	57.91 x 60.96 x 11.43	345-1057-ND◆	3.70	3.33	2.59	528-45AB

◆ ***RoHS Compliant***

CPU, PGA and BGA Heat Sinks

609 Series: Fits PowerPC 601, 604, 255BGA **628 Series:** Fits IntelDX4, Intel 80486DX2, AM486DX2/DX4 **658 Series:** Fits IntelDX4, AM29240, PowerPC 603

Fig.	Description	Dimensions – mm	Digi-Key	Price Each			Wakefield
		L x W x H	Part No.	1	10	100	Part No.
	CPU Cooler						
17	35mm BGA Unidirectional Fin Heat Sink	35.0 x 35.0 x 11.4	345-1092-ND◆	2.01	1.68	1.18	642-45AB
20	16.5mm BGA/PGA With Thermal Tape, Black	16.5 x 16.5 x 8.9	345-1101-ND◆	2.07	1.73	1.21	LTN20069-T5
21	40mm QFP and 21mm BGA With Clips and Thermal Tape, Black	73.5 x 50.8 x 12.7	345-1058-ND◆	9.63	8.67	6.74	609-50ABS3
22	21mm BGA With Thermal Double Sided Tape	21.0 x 21.0 x 6.4	345-1059-ND	2.91	2.43	1.70	624-25ABT4
	21mm BGA With Thermal Double Sided Tape	21.0 x 21.0 x 6.4	345-1098-ND◆	2.91	1.94	1.51	624-25ABT4E
	25mm BGA With Thermal Double Sided Tape	25.0 x 25.0 x 6.4	345-1060-ND	3.85	2.75	1.93	625-25ABT4
	27.9mm CPU Square With Thermal Tape (Chomerics T-410R), Black	27.9 x 27.9 x 15.2	345-1102-ND◆	3.10	2.79	2.17	658-60ABT4E
	17x17 PGA No Tape, Black	44.5 x 43.2 x 10.2	345-1061-ND◆	2.37	1.98	1.39	628-40AB
	17x17 PGA No Tape, Black	44.5 x 43.2 x 16.5	345-1062-ND◆	2.49	2.08	1.46	628-65AB
	28-38mm CQFP No Tape, Black	27.9 x 27.9 x 6.4	345-1036-ND◆	1.41	1.18	.83	658-25AB
	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.9 x 27.9 x 6.4	345-1063-ND	2.97	2.48	1.74	658-25ABT1
	28-38mm CQFP With Thermal Tape (Arclad 8223) Black	27.9 x 27.9 x 6.4	345-1096-ND◆	2.83	2.55	1.98	658-25ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.9 x 27.9 x 6.4	345-1065-ND	2.78	2.50	1.95	658-25ABT4
	28-38mm CQFP No Tape, Black	27.9 x 27.9 x 8.9	345-1066-ND◆	1.47	1.23	.86	658-35AB
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.9 x 27.9 x 8.9	345-1067-ND◆	2.83	2.55	1.98	658-35ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.9 x 27.9 x 8.9	345-1068-ND	2.88	2.59	2.02	658-35ABT4
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.9 x 27.9 x 8.9	345-1100-ND◆	2.88	2.59	2.02	658-35ABT4E
	28-38mm CQFP No Tape, Black	27.9 x 27.9 x 11.4	345-1069-ND◆	1.53	1.28	.90	658-45AB
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.9 x 27.9 x 11.4	345-1097-ND◆	2.93	2.64	2.05	658-45ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.9 x 27.9 x 11.4	345-1071-ND	3.00	2.70	2.10	658-45ABT4
	28-38mm CQFP No Tape, Black	27.9 x 27.9 x 15.2	345-1072-ND◆	1.77	1.48	1.04	658-60AB
	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.9 x 27.9 x 15.2	345-1073-ND	2.83	2.55	1.98	658-60ABT1
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.9 x 27.9 x 15.2	345-1075-ND◆	3.05	2.75	2.14	658-60ABT3
	21mm BGA With Omnidirectional Pin Fin Heat Sink, Black	21.0 x 21.0 x 11.4	345-1089-ND◆	2.91	2.43	1.70	624-45ABT3
	25mm BGA With Omnidirectional Pin Fin Heat Sink, Black	25.0 x 25.0 x 11.4	345-1090-ND◆	2.04	1.70	1.19	625-45AB
	Pin Fin Heat Sinks, Black	40.6 x 40.6 x 13.3	345-1093-ND◆	2.94	2.45	1.72	655-53AB
	Omnidirectional Pin Fin, Black	27.9 x 27.9 x 15.2	345-1094-ND	3.10	2.79	2.17	658-60ABT4
	CPU Composite Cooler — RoHS Compliant						
23	CPU Composite Cooler for 84-100QFP, 169BGA, No Tape, Black	16.5 x 16.5 x 10.2	345-1076-ND	1.80	1.50	1.05	D10650-40
	CPU Composite Cooler for 128-200QFP, 313BGA, No Tape, Black	21.6 x 21.6 x 10.2	345-1077-ND	2.25	1.88	1.32	D10850-40

◆ ***RoHS Compliant***

High Performance Heat Sinks

ATS maxiFLOW™ Heat Sinks have a low profile, spread fin array to maximize surface area for more effective convection (air) cooling.

The maxiGRIP™ Heat Sink Attachment System features a plastic frame clip that snaps securely around a component's perimeter. A stainless steel spring clip runs through the heat sink's fin field, fastens securely to the plastic frame and applies steady, even pressure to the component. The system allows easy sink detachment and reattachment with no damage to the component.

Component/heat sink assemblies using maxiGRIP meet Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock Testing and Unpackaged Drop Testing standards.

BGA Cooling Solutions

Fig. 1

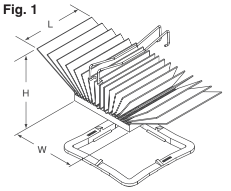

Fig. 2

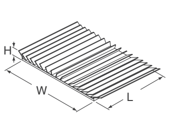

maxiFLOW™ with maxiGRIP™ attachment. Designed for component heights from 3 ~ 4.5mm

Component height is defined as the distance from the top of the PCB to the top of the component.

Dimensions (mm)			Thermal Resist @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
Fig. 1								
17	17	7.5	18.2	13.9	ATS1000-ND†	11.16	8.17	6.77
19	19	7.5	16.5	12.9	ATS1001-ND†	11.26	8.24	6.83
21	21	7.5	11.9	8.8	ATS1002-ND†	11.39	8.33	6.91
23	23	7.5	10.9	8.3	ATS1003-ND†	11.49	8.41	6.97
25	25	7.5	8.6	6.1	ATS1004-ND†	11.62	8.50	7.04
27	27	7.5	7.9	5.8	ATS1005-ND†	11.72	8.57	7.10
29	29	7.5	7 .4	5.6	ATS1006-ND†	11.84	8.67	7.18
30	30	7.5	7.1	5.4	ATS1007-ND†	11.97	8.76	7.26
31	31	7.5	6.9	5.3	ATS1008-ND†	12.07	8.83	7.32
32.5	32.5	7.5	5.9	4.2	ATS1009-ND†	12.20	8.93	7.39
33	33	7.5	5.8	4.2	ATS1010-ND†	12.25	8.96	7.43
35	35	7.5	5.3	3.4	ATS1011-ND†	12.32	9.02	7.47
37.5	37.5	7.5	4.9	3.3	ATS1012-ND†	12.45	9.11	7.55
40	40	7.5	4.5	3.2	ATS1013-ND†	12.57	9.20	7.62
42.5	42.5	7.5	4.3	3.0	ATS1014-ND†	11.36	8.70	7.37
45	45	7.5	4.0	2.6	ATS1015-ND†	11.48	8.79	7.44
17	17	12.5	11.1	9.0	ATS1016-ND†	12.07	8.83	7.32
19	19	12.5	10.2	8.4	ATS1017-ND†	12.20	8.93	7.39
21	21	12.5	7.2	5.7	ATS1018-ND†	12.32	9.02	7.47
23	23	12.5	6.7	5.4	ATS1019-ND†	12.45	9.11	7.55
25	25	12.5	5.2	4.0	ATS1020-ND†	12.57	9.20	7.62
27	27	12.5	4.8	3.8	ATS1021-ND†	11.36	8.70	7.37
29	29	12.5	4.5	3.7	ATS1022-ND†	11.48	8.79	7.44
30	30	12.5	4.4	3.6	ATS1023-ND†	11.59	8.87	7.52
31	31	12.5	4.3	3.5	ATS1024-ND†	11.70	8.96	7.59
32.5	32.5	12.5	3.5	2.8	ATS1025-ND†	11.84	9.06	7.68
33	33	12.5	3.5	2.7	ATS1026-ND†	11.88	9.10	7.71
35	35	12.5	3.0	2.2	ATS1027-ND†	11.95	9.15	7.75
37.5	37.5	12.5	2.8	2.1	ATS1028-ND†	12.06	9.24	7.82
40	40	12.5	2.6	2.0	ATS1029-ND†	12.18	9.32	7.90
42.5	42.5	12.5	2.4	2.0	ATS1030-ND†	12.31	9.43	7.98
45	45	12.5	2.1	1.6	ATS1031-ND†	12.42	9.51	8.06
17	17	17.5	8.3	6.8	ATS1032-ND†	11.72	8.98	7.60
19	19	17.5	7.7	6.4	ATS1033-ND†	11.86	9.08	7.69
21	21	17.5	5.4	4.3	ATS1034-ND†	11.97	9.17	7.76
23	23	17.5	5.1	4.1	ATS1035-ND†	12.09	9.25	7.84
25	25	17.5	3.9	3.0	ATS1036-ND†	12.22	9.36	7.93
27	27	17.5	3.7	2.9	ATS1037-ND†	12.33	9.44	8.00
29	29	17.5	3.5	2.8	ATS1038-ND†	12.47	9.55	8.09
30	30	17.5	3.4	2.7	ATS1039-ND†	12.58	9.64	8.16
31	31	17.5	3.3	2.7	ATS1040-ND†	12.72	9.74	8.25
32.5	32.5	17.5	2.7	2.1	ATS1041-ND†	12.83	9.83	8.32
33	33	17.5	2.7	2.1	ATS1042-ND†	12.90	9.88	8.36
35	35	17.5	2.3	1.7	ATS1043-ND†	12.97	9.93	8.41
37.5	37.5	17.5	2.1	1.6	ATS1044-ND†	13.10	10.03	8.50
40	40	17.5	2.0	1.6	ATS1045-ND†	13.24	10.14	8.58
42.5	42.5	17.5	1.9	1.5	ATS1046-ND†	13.35	10.22	8.66
45	45	17.5	1.6	1.3	ATS1047-ND†	13.49	10.33	8.75

Custom maxiFLOW™ Heat Sinks with Thermal Tape

Dimensions (mm)			Thermal Resist. @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
Blue Ice — Fig. 2								
25.2	25.2	4	14.8	7.8	ATS1376-ND	11.44	8.37	6.94
37.6	37.6	4	7.8	3.8	ATS1377-ND	12.27	9.39	7.95
61	58.2	5.5	4.0	2.3	ATS1378-ND‡	13.03	9.98	8.45
61	58.2	7	2.2	1.4	ATS1379-ND	13.49	10.33	8.75
61	58.2	6.1	3.6	2.2	ATS1380-ND§	13.26	10.15	8.60

‡ Gold Anodized § Black Anodized

maxiFLOW™ Low Profile Heat Sink with maxiGRIP™ attachment. Designed for component heights from 1.5 ~ 2.99mm

Component height is defined as the distance from the top of the PCB to the top of the component.

Dimensions (mm)			Thermal Resist. @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
Fig. 1								
17	17	9.5	18.5	12.6	ATS1048-ND†	11.46	8.39	6.95
19	19	9.5	16.7	11.6	ATS1049-ND†	11.64	8.52	7.06
21	21	9.5	12.0	8.0	ATS1050-ND†	11.82	8.65	7.17
23	23	9.5	11.0	7.5	ATS1051-ND†	11.99	8.78	7.27
25	25	9.5	8.6	5.5	ATS1052-ND†	12.17	8.91	7.38
27	27	9.5	8.0	5.3	ATS1053-ND†	12.37	9.05	7.50
29	29	9.5	7.4	5.0	ATS1054-ND†	12.55	9.18	7.61
30	30	9.5	7.2	4.9	ATS1055-ND†	11.34	8.68	7.35
31	31	9.5	7.0	4.8	ATS1056-ND†	11.43	8.75	7.41
32.5	32.5	9.5	6.0	3.8	ATS1057-ND†	11.54	8.84	7.49
33	33	9.5	5.9	3.8	ATS1058-ND†	11.59	8.87	7.52
35	35	9.5	5.3	3.1	ATS1059-ND†	11.63	8.91	7.54
37.5	37.5	9.5	4.9	3.0	ATS1060-ND†	11.75	9.00	7.62
40	40	9.5	4.5	2.8	ATS1061-ND†	11.86	9.08	7.69
42.5	42.5	9.5	4.3	2.7	ATS1062-ND†	11.95	9.15	7.75
45	45	9.5	4.0	2.3	ATS1063-ND†	12.06	9.24	7.82
17	17	14.5	10.9	8.5	ATS1064-ND†	12.42	9.09	7.53
19	19	14.5	10.1	7.9	ATS1065-ND†	12.60	9.22	7.64
21	21	14.5	7.2	5.4	ATS1066-ND†	11.45	8.77	7.43
23	23	14.5	6.6	5.1	ATS1067-ND†	9.31	7.13	6.60
25	25	14.5	5.1	3.8	ATS1068-ND†	11.81	9.05	7.66
27	27	14.5	4.8	3.6	ATS1069-ND†	12.00	9.19	7.78
29	29	14.5	4.5	3.4	ATS1070-ND†	12.18	9.32	7.90
30	30	14.5	4.3	3.4	ATS1071-ND†	12.29	9.41	7.97
31	31	14.5	4.2	3.3	ATS1072-ND†	12.38	9.48	8.03
32.5	32.5	14.5	3.5	2.6	ATS1073-ND†	12.49	9.57	8.10
33	33	14.5	3.4	2.6	ATS1074-ND†	12.56	9.62	8.14
35	35	14.5	2.9	2.1	ATS1075-ND†	12.61	9.65	8.17
37.5	37.5	14.5	2.7	2.0	ATS1076-ND†	12.72	9.74	8.25
40	40	14.5	2.5	1.9	ATS1077-ND†	12.83	9.83	8.32
42.5	42.5	14.5	2.4	1.8	ATS1078-ND†	12.97	9.93	8.41
45	45	14.5	2.1	1.5	ATS1079-ND†	13.08	10.02	8.48
17	17	19.5	8.1	6.5	ATS1080-ND†	12.06	9.24	7.82
19	19	19.5	7.5	6.1	ATS1081-ND†	12.24	9.38	7.94
21	21	19.5	5.3	4.2	ATS1082-ND†	12.42	9.51	8.06
23	23	19.5	5.0	4.0	ATS1083-ND†	12.63	9.67	8.19
25	25	19.5	3.8	2.9	ATS1084-ND†	12.81	9.81	8.31
27	27	19.5	3.6	2.8	ATS1085-ND†	13.01	9.96	8.44
29	29	19.5	3.4	2.7	ATS1086-ND†	13.22	10.12	8.57
30	30	19.5	3.3	2.6	ATS1087-ND†	13.33	10.21	8.64
31	31	19.5	3.2	2.6	ATS1088-ND†	13.44	10.29	8.72
32.5	32.5	19.5	2.7	2.0	ATS1089-ND†	13.58	10.40	8.80
33	33	19.5	2.6	2.0	ATS1090-ND†	13.62	10.43	8.83
35	35	19.5	2.2	1.6	ATS1091-ND†	13.69	10.48	8.88
37.5	37.5	19.5	2.1	1.6	ATS1092-ND†	13.80	10.57	8.95
40	40	19.5	2.0	1.5	ATS1093-ND†	13.94	10.67	9.04
42.5	42.5	19.5	1.9	1.5	ATS1094-ND†	14.07	10.78	9.13
45	45	19.5	1.6	1.2	ATS1095-ND†	14.19	10.86	9.20

Thermal Design Kit

Contains maxiFLOW™ heat sinks and maxiGRIP™ sink attachment systems (1 each of 96 parts denoted).

† ATS1397-ND (ATS-TMDK-96) **$878.40**

maxiGRIP™ Heat Sink Attachment Assembly with Straight-Fin Heat Sink, Thermal Tape

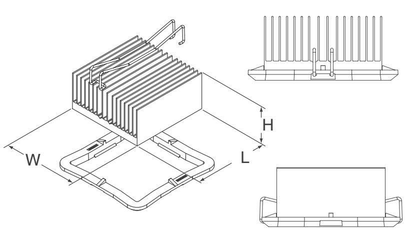

Dimensions (mm)			Thermal Resist. @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
17	17	9.5	24.3	12.3	ATS1147-ND	10.66	7.80	6.46
19	19	9.5	22.0	11.6	ATS1148-ND	10.76	7.87	6.52
21	21	9.5	20.2	10.9	ATS1149-ND	10.86	7.95	6.58
23	23	9.5	16.8	7.6	ATS1150-ND	10.98	8.04	6.66
25	25	9.5	15.3	7.3	ATS1151-ND	11.08	8.11	6.72
27	27	9.5	14.1	7.0	ATS1152-ND	11.21	8.21	6.80
29	29	9.5	13.1	6.7	ATS1153-ND	11.31	8.28	6.86
30	30	9.5	12.7	6.6	ATS1154-ND	11.41	8.35	6.92
31	31	9.5	12.0	5.1	ATS1155-ND	11.54	8.45	7.00
32.5	32.5	9.5	11.3	5.0	ATS1156-ND	11.67	8.54	7.07

Dimensions (mm)			Thermal Resist. @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
33	33	9.5	11.1	5.0	ATS1157-ND	11.69	8.56	7.09
35	35	9.5	10.3	4.8	ATS1158-ND	11.77	8.61	7.13
37.5	37.5	9.5	10.0	3.8	ATS1159-ND	11.89	8.70	7.21
40	40	9.5	9.1	3.7	ATS1160-ND	12.02	8.80	7.29
42.5	42.5	9.5	8.4	3.6	ATS1161-ND	12.12	8.87	7.35
45	45	9.5	8.4	2.9	ATS1162-ND	12.25	8.96	7.43
17	17	14.5	13.1	7.8	ATS1163-ND	11.49	8.41	6.97
19	19	14.5	12.0	7.4	ATS1164-ND	11.59	8.48	7.03
21	21	14.5	11.1	7.1	ATS1165-ND	11.72	8.57	7.10
23	23	14.5	8.8	4.9	ATS1166-ND	11.84	8.67	7.18
25	25	14.5	8.1	4.7	ATS1167-ND	11.94	8.74	7.24
27	27	14.5	7.6	4.5	ATS1168-ND	12.07	8.83	7.32
29	29	14.5	7.1	4.4	ATS1169-ND	12.20	8.93	7.39
30	30	14.5	6.9	4.3	ATS1170-ND	12.32	9.02	7.47
31	31	14.5	6.2	3.3	ATS1171-ND	12.45	9.11	7.55
32.5	32.5	14.5	5.9	3.2	ATS1172-ND	12.57	9.20	7.62
33	33	14.5	5.8	3.2	ATS1173-ND	11.30	8.65	7.32
35	35	14.5	5.4	3.1	ATS1174-ND	11.36	8.70	7.37
37.5	37.5	14.5	5.0	2.4	ATS1175-ND	11.48	8.79	7.44
40	40	14.5	4.6	2.4	ATS1176-ND	11.59	8.87	7.52
42.5	42.5	14.5	4.3	2.3	ATS1177-ND	11.70	8.96	7.59
45	45	14.5	4.1	1.9	ATS1178-ND	11.81	9.05	7.66
17	17	19.5	9.3	5.6	ATS1179-ND	11.99	8.78	7.27
19	19	19.5	8.4	5.3	ATS1180-ND	12.09	8.85	7.33
21	21	19.5	7.8	5.1	ATS1181-ND	12.22	8.94	7.41
23	23	19.5	7.3	4.9	ATS1182-ND	12.35	9.04	7.49
25	25	19.5	5.7	3.4	ATS1183-ND	12.47	9.13	7.56
27	27	19.5	5.3	3.3	ATS1184-ND	12.60	9.22	7.64
29	29	19.5	5.0	3.2	ATS1185-ND	11.39	8.72	7.38
30	30	19.5	4.8	3.1	ATS1186-ND	11.50	8.81	7.46
31	31	19.5	4.7	3.1	ATS1187-ND	11.61	8.89	7.53
32.5	32.5	19.5	4.1	2.3	ATS1188-ND	11.72	8.98	7.60
33	33	19.5	4.1	2.3	ATS1189-ND	11.77	9.01	7.63
35	35	19.5	3.8	2.2	ATS1190-ND	11.84	9.06	7.68
37.5	37.5	19.5	3.5	2.2	ATS1191-ND	11.97	9.17	7.76
40	40	19.5	3.2	1.7	ATS1192-ND	12.09	9.25	7.84
42.5	42.5	19.5	3.0	1.7	ATS1193-ND	12.20	9.34	7.91
45	45	19.5	2.8	1.6	ATS1194-ND	12.33	9.44	8.00

maxiGRIP™ Installation and Removal Tools

Heat Sink Size is referring to maxiGRIP Heat Sink Attachment Assemblies compatible with tools.

Heat Sink Size (mm)		Digi-Key	Price	ATS
L	W	Part No.	Each	Part No.
19	19	ATS1382-ND	73.79	MGT190
21	21	ATS1383-ND	73.79	MGT210
23	23	ATS1384-ND	73.79	MGT230
25	25	ATS1385-ND	73.79	MGT250
27	27	ATS1386-ND	73.79	MGT270
29	29	ATS1387-ND	73.79	MGT290
30	30	ATS1388-ND	73.79	MGT300
31	31	ATS1389-ND	73.79	MGT310
32.5	32.5	ATS1390-ND	73.79	MGT325
33	33	ATS1391-ND	73.79	MGT330
35	35	ATS1392-ND	73.79	MGT350
37.5	37.5	ATS1393-ND	73.79	MGT375
40	40	ATS1394-ND	73.79	MGT400
42.5	42.5	ATS1395-ND	73.79	MGT425
45	45	ATS1396-ND	73.79	MGT450

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maxiFLOW™ Heat Sink Using Thermal Tape

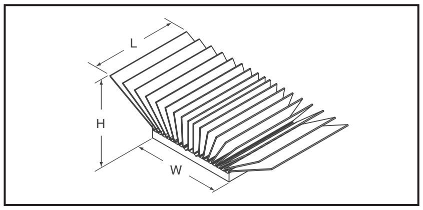

Dimensions (mm)			Thermal Resist. @ 200 LFM (1m/sec.)		Digi-Key	Price Each		
L	W	H	Unducted Flow	Ducted Flow	Part No.	1	10	100
15	15	7.5	19.7	14.6	ATS1096-ND	7.42	5.43	4.50
17	17	7.5	18.2	13.9	ATS1097-ND	7.50	5.49	4.55
19	19	7.5	16.5	12.9	ATS1098-ND	7.58	5.55	4.59
21	21	7.5	11.9	8.8	ATS1099-ND	7.65	5.60	4.64
23	23	7.5	10.9	8.3	ATS1100-ND	7.73	5.66	4.69
25	25	7.5	8.6	6.1	ATS1101-ND	7.80	5.71	4.73
27	27	7.5	7.9	5.8	ATS1102-ND	7.88	5.77	4.78
29	29	7.5	7.4	5.6	ATS1103-ND	7.95	5.82	4.82
30	30	7.5	7.1	5.4	ATS1104-ND	8.03	5.88	4.87

(Continued)

BGA Cooling Solutions *(Cont.)*

Dimensions (mm) L	W	H	Thermal Resist. @ 200 LFM (1m/sec.) Unducted Flow	Ducted Flow	Digi-Key Part No.	Price Each 1	10	100
31	31	7.5	6.9	5.3	ATS1105-ND	8.11	5.93	4.92
32.5	32.5	7.5	5.9	4.2	ATS1106-ND	8.21	6.01	4.98
33	33	7.5	5.8	4.2	ATS1107-ND	8.23	6.03	4.99
35	35	7.5	5.3	3.4	ATS1108-ND	8.28	6.06	5.02
37.5	37.5	7.5	4.9	3.3	ATS1109-ND	8.36	6.12	5.07
40	40	7.5	4.5	3.2	ATS1110-ND	6.75	4.94	4.35
42.5	42.5	7.5	4.3	3.0	ATS1111-ND	8.53	6.25	5.18
45	45	7.5	4.0	2.6	ATS1112-ND	8.61	6.30	5.22
15	15	12.5	11.7	9.4	ATS1113-ND	8.79	6.43	5.33
17	17	12.5	11.1	9.0	ATS1114-ND	8.89	6.51	5.39
19	19	12.5	10.2	8.4	ATS1115-ND	8.96	6.56	5.44
21	21	12.5	7.2	5.7	ATS1116-ND	9.06	6.64	5.50
23	23	12.5	6.7	5.4	ATS1117-ND	9.17	6.71	5.56
25	25	12.5	5.2	4.0	ATS1118-ND	9.24	6.76	5.60
27	27	12.5	4.8	3.8	ATS1119-ND	9.34	6.84	5.67
29	29	12.5	4.5	3.7	ATS1120-ND	9.44	6.91	5.73
30	30	12.5	4.4	3.6	ATS1121-ND	9.54	6.99	5.79
31	31	12.5	4.3	3.5	ATS1122-ND	9.62	7.04	5.83
32.5	32.5	12.5	3.5	2.8	ATS1123-ND	9.72	7.12	5.90
33	33	12.5	3.5	2.7	ATS1124-ND	9.77	7.15	5.93
35	35	12.5	3.0	2.2	ATS1125-ND	9.82	7.19	5.96
37.5	37.5	12.5	2.8	2.1	ATS1126-ND	9.92	7.26	6.02
40	40	12.5	2.6	2.0	ATS1127-ND	10.02	7.34	6.08
42.5	42.5	12.5	2.4	2.0	ATS1128-ND	10.13	7.41	6.14
45	45	12.5	2.1	1.6	ATS1129-ND	10.23	7.48	6.20
15	15	17.5	8.7	7.1	ATS1130-ND	10.33	7.56	6.26
17	17	17.5	8.3	6.8	ATS1131-ND	10.43	7.63	6.32
19	19	17.5	7.7	6.4	ATS1132-ND	10.53	7.71	6.39
21	21	17.5	5.4	4.3	ATS1133-ND	10.66	7.80	6.46
23	23	17.5	5.1	4.1	ATS1134-ND	10.76	7.87	6.52
25	25	17.5	3.9	3.0	ATS1135-ND	10.86	7.95	6.58
27	27	17.5	3.7	2.9	ATS1136-ND	10.98	8.04	6.66
29	29	17.5	3.5	2.8	ATS1137-ND	11.08	8.11	6.72
30	30	17.5	3.4	2.7	ATS1138-ND	11.19	8.19	6.78
31	31	17.5	3.3	2.7	ATS1139-ND	11.31	8.28	6.86
32.5	32.5	17.5	2.7	2.1	ATS1140-ND	11.41	8.35	6.92
33	33	17.5	2.7	2.1	ATS1141-ND	11.46	8.39	6.95
35	35	17.5	2.3	1.7	ATS1142-ND	11.54	8.45	7.00
37.5	37.5	17.5	2.1	1.6	ATS1143-ND	11.64	8.52	7.06
40	40	17.5	2.0	1.6	ATS1144-ND	11.77	8.61	7.13
42.5	42.5	17.5	1.9	1.5	ATS1145-ND	11.89	8.70	7.21
45	45	17.5	1.6	1.3	ATS1146-ND	11.99	8.78	7.27

High Aspect Ratio Extrusion

Straight Fin Heat Sink with Thermal Tape

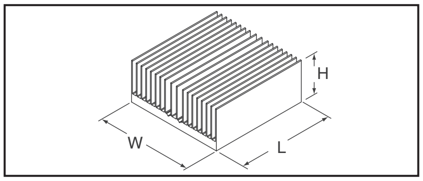

Dimensions (mm) L	W	H	Thermal Resist. @ 200 LFM (1m/sec.) Unducted Flow	Ducted Flow	Digi-Key Part No.	Price Each 1	10	100
15	15	9.5	26.2	12.7	ATS1195-ND	6.36	4.66	3.86
17	17	9.5	24.3	12.3	ATS1196-ND	6.41	4.70	3.89
19	19	9.5	22.0	11.6	ATS1197-ND	6.49	4.75	3.94
21	21	9.5	20.2	10.9	ATS1198-ND	6.54	4.79	3.97
23	23	9.5	16.8	7.6	ATS1199-ND	6.62	4.84	4.01
25	25	9.5	15.3	7.3	ATS1200-ND	6.69	4.90	4.06
27	27	9.5	14.1	7.0	ATS1201-ND	6.74	4.94	4.09
29	29	9.5	13.1	6.7	ATS1202-ND	6.82	4.99	4.14
30	30	9.5	12.7	6.6	ATS1203-ND	6.89	5.05	4.18
31	31	9.5	12.0	5.1	ATS1204-ND	6.94	5.08	4.21
32.5	32.5	9.5	11.3	5.0	ATS1205-ND	7.02	5.14	4.26
33	33	9.5	11.1	5.0	ATS1206-ND	7.04	5.16	4.27
35	35	9.5	10.3	4.8	ATS1207-ND	7.10	5.19	4.30
37.5	37.5	9.5	10.0	3.8	ATS1208-ND	7.17	5.25	4.35
40	40	9.5	9.1	3.7	ATS1209-ND	7.25	5.31	4.40
42.5	42.5	9.5	8.4	3.6	ATS1210-ND	7.30	5.34	4.43
45	45	9.5	8.4	2.9	ATS1211-ND	7.37	5.40	4.47
15	15	14.5	19.1	12.9	ATS1212-ND	7.52	5.51	4.56
17	17	14.5	13.1	7.8	ATS1213-ND	7.60	5.56	4.61
19	19	14.5	12.0	7.4	ATS1214-ND	7.68	5.62	4.66
21	21	14.5	11.1	7.1	ATS1215-ND	7.75	5.67	4.70
23	23	14.5	8.8	4.9	ATS1216-ND	7.83	5.73	4.75
25	25	14.5	8.1	4.7	ATS1217-ND	7.93	5.80	4.81
27	27	14.5	7.6	4.5	ATS1218-ND	8.00	5.86	4.86
29	29	14.5	7.1	4.4	ATS1219-ND	8.08	5.91	4.90
30	30	14.5	6.9	4.3	ATS1220-ND	8.16	5.97	4.95
31	31	14.5	6.2	3.3	ATS1221-ND	8.23	6.03	4.99
32.5	32.5	14.5	5.9	3.2	ATS1222-ND	8.33	6.10	5.05
33	33	14.5	5.8	3.2	ATS1223-ND	8.36	6.12	5.07
35	35	14.5	5.4	3.1	ATS1224-ND	8.41	6.16	5.10
37.5	37.5	14.5	5.0	2.4	ATS1225-ND	6.79	4.97	4.37
40	40	14.5	4.6	2.4	ATS1226-ND	8.59	6.28	5.21
42.5	42.5	14.5	4.3	2.3	ATS1227-ND	8.66	6.34	5.25
45	45	14.5	4.1	1.9	ATS1228-ND	8.76	6.41	5.31
15	15	19.5	13.4	9.5	ATS1229-ND	8.23	6.03	4.99
17	17	19.5	9.3	5.6	ATS1230-ND	6.67	4.88	4.29
19	19	19.5	8.4	5.3	ATS1231-ND	8.41	6.16	5.10
21	21	19.5	7.8	5.1	ATS1232-ND	8.48	6.21	5.15
23	23	19.5	7.3	4.9	ATS1233-ND	8.59	6.28	5.21
25	25	19.5	5.7	3.4	ATS1234-ND	8.66	6.34	5.25
27	27	19.5	5.3	3.3	ATS1235-ND	8.76	6.41	5.31
29	29	19.5	5.0	3.2	ATS1236-ND	8.84	6.47	5.36
30	30	19.5	4.8	3.1	ATS1237-ND	8.94	6.54	5.42
31	31	19.5	4.7	3.1	ATS1238-ND	9.01	6.60	5.47
32.5	32.5	19.5	4.1	2.3	ATS1239-ND	9.12	6.67	5.53
33	33	19.5	4.1	2.3	ATS1240-ND	9.14	6.69	5.54
35	35	19.5	3.8	2.2	ATS1241-ND	9.19	6.73	5.57
37.5	37.5	19.5	3.5	2.2	ATS1242-ND	9.29	6.80	5.64
40	40	19.5	3.2	1.7	ATS1243-ND	9.39	6.88	5.70
42.5	42.5	19.5	3.0	1.7	ATS1244-ND	9.47	6.93	5.74
45	45	19.5	2.8	1.6	ATS1245-ND	9.57	7.00	5.80
15	15	24.5	10.5	7.7	ATS1246-ND	9.54	6.99	5.79
17	17	24.5	7.1	4.5	ATS1247-ND	9.65	7.06	5.85
19	19	24.5	6.5	4.3	ATS1248-ND	9.75	7.13	5.91
21	21	24.5	6.0	3.8	ATS1249-ND	9.85	7.21	5.97
23	23	24.5	5.6	4.0	ATS1250-ND	9.95	7.28	6.03
25	25	24.5	4.4	2.7	ATS1251-ND	10.05	7.36	6.09
27	27	24.5	4.0	2.6	ATS1252-ND	10.15	7.43	6.16
29	29	24.5	3.8	2.6	ATS1253-ND	10.25	7.50	6.22
30	30	24.5	3.7	2.5	ATS1254-ND	10.35	7.58	6.28
31	31	24.5	3.6	2.5	ATS1255-ND	10.45	7.65	6.34
32.5	32.5	24.5	3.1	1.9	ATS1256-ND	10.55	7.72	6.40
33	33	24.5	3.1	1.9	ATS1257-ND	10.61	7.76	6.43
35	35	24.5	2.9	1.8	ATS1258-ND	10.66	7.80	6.46
37.5	37.5	24.5	2.7	1.8	ATS1259-ND	10.78	7.89	6.54
40	40	24.5	2.4	1.4	ATS1260-ND	10.88	7.97	6.60
42.5	42.5	24.5	2.2	1.3	ATS1261-ND	10.98	8.04	6.66
45	45	24.5	2.1	1.3	ATS1262-ND	11.11	8.13	6.74

Cross-Cut Heat Sink with Thermal Tape

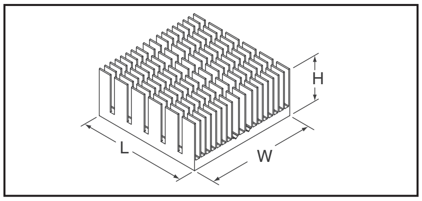

Dimensions (mm) L	W	H	Thermal Resist. Unducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
15	15	9.5	29.5	ATS1263-ND	6.44	4.71	3.91
17	17	9.5	28.0	ATS1264-ND	6.54	4.79	3.97
19	19	9.5	24.0	ATS1265-ND	6.64	4.86	4.03
21	21	9.5	21.9	ATS1266-ND	6.74	4.94	4.09
23	23	9.5	18.0	ATS1267-ND	6.84	5.01	4.15
25	25	9.5	16.5	ATS1268-ND	6.94	5.08	4.21
27	27	9.5	15.5	ATS1269-ND	7.04	5.16	4.27
29	29	9.5	14.5	ATS1270-ND	7.17	5.25	4.35
30	30	9.5	14.0	ATS1271-ND	7.22	5.29	4.38
31	31	9.5	13.5	ATS1272-ND	7.30	5.34	4.43
32.5	32.5	9.5	12.5	ATS1273-ND	7.35	5.38	4.46
33	33	9.5	12.3	ATS1274-ND	7.37	5.40	4.47
35	35	9.5	11.3	ATS1275-ND	7.42	5.43	4.50
37.5	37.5	9.5	11.1	ATS1276-ND	7.47	5.47	4.53
40	40	9.5	10.0	ATS1277-ND	7.55	5.53	4.58
42.5	42.5	9.5	9.2	ATS1278-ND	7.63	5.58	4.63
45	45	9.5	9.2	ATS1279-ND	7.70	5.64	4.67
15	15	14.5	21.4	ATS1280-ND	7.63	5.58	4.63
17	17	14.5	15.5	ATS1281-ND	7.75	5.67	4.70
19	19	14.5	13.1	ATS1282-ND	7.88	5.77	4.78
21	21	14.5	12.0	ATS1283-ND	7.98	5.84	4.84
23	23	14.5	9.5	ATS1284-ND	8.11	5.93	4.92
25	25	14.5	8.8	ATS1285-ND	8.23	6.03	4.99
27	27	14.5	8.3	ATS1286-ND	8.36	6.12	5.07
29	29	14.5	7.8	ATS1287-ND	8.48	6.21	5.15
30	30	14.5	7.6	ATS1288-ND	8.56	6.27	5.19
31	31	14.5	7.0	ATS1289-ND	8.64	6.32	5.24
32.5	32.5	14.5	6.5	ATS1290-ND	8.71	6.38	5.28
33	33	14.5	6.4	ATS1291-ND	8.76	6.41	5.31
35	35	14.5	5.9	ATS1292-ND	8.79	6.43	5.33
37.5	37.5	14.5	5.6	ATS1293-ND	8.86	6.49	5.38
40	40	14.5	5.1	ATS1294-ND	8.96	6.56	5.44
42.5	42.5	14.5	4.7	ATS1295-ND	9.04	6.62	5.48
45	45	14.5	4.5	ATS1296-ND	9.12	6.67	5.53
15	15	19.5	15.1	ATS1297-ND	8.36	6.12	5.07
17	17	19.5	11.3	ATS1298-ND	8.48	6.21	5.15
19	19	19.5	9.2	ATS1299-ND	8.61	6.30	5.22
21	21	19.5	8.4	ATS1300-ND	8.74	6.40	5.30
23	23	19.5	7.8	ATS1301-ND	8.86	6.49	5.38
25	25	19.5	6.2	ATS1302-ND	9.01	6.60	5.47
27	27	19.5	5.8	ATS1303-ND	9.14	6.69	5.54
29	29	19.5	5.5	ATS1304-ND	9.29	6.80	5.64
30	30	19.5	5.3	ATS1305-ND	9.37	6.86	5.68
31	31	19.5	5.3	ATS1306-ND	9.44	6.91	5.73
32.5	32.5	19.5	4.6	ATS1307-ND	9.54	6.99	5.79
33	33	19.5	4.5	ATS1308-ND	9.57	7.00	5.80
35	35	19.5	4.2	ATS1309-ND	9.62	7.04	5.83
37.5	37.5	19.5	3.9	ATS1310-ND	9.70	7.10	5.88
40	40	19.5	3.6	ATS1311-ND	9.80	7.17	5.94
42.5	42.5	19.5	3.3	ATS1312-ND	9.87	7.23	5.99
45	45	19.5	3.0	ATS1313-ND	9.97	7.30	6.05
15	15	24.5	11.7	ATS1314-ND	9.70	7.10	5.88
17	17	24.5	8.6	ATS1315-ND	9.82	7.19	5.96
19	19	24.5	7.1	ATS1316-ND	9.97	7.30	6.05
21	21	24.5	6.5	ATS1317-ND	10.13	7.41	6.14
23	23	24.5	6.0	ATS1318-ND	10.28	7.52	6.23
25	25	24.5	4.7	ATS1319-ND	10.45	7.65	6.34
27	27	24.5	4.5	ATS1320-ND	10.61	7.76	6.43
29	29	24.5	4.2	ATS1321-ND	10.76	7.87	6.52
30	30	24.5	4.1	ATS1322-ND	10.86	7.95	6.58
31	31	24.5	4.0	ATS1323-ND	10.96	8.02	6.65
32.5	32.5	24.5	3.5	ATS1324-ND	11.06	8.09	6.71
33	33	24.5	3.4	ATS1325-ND	11.11	8.13	6.74
35	35	24.5	3.1	ATS1326-ND	11.16	8.17	6.77
37.5	37.5	24.5	3.0	ATS1327-ND	11.26	8.24	6.83
40	40	24.5	2.6	ATS1328-ND	11.36	8.32	6.89
42.5	42.5	24.5	2.4	ATS1329-ND	11.46	8.39	6.95
45	45	24.5	2.3	ATS1330-ND	11.56	8.46	7.01

ASIC Cooling Solutions

Custom maxiFLOW™ Heat Sinks

Fig. 1

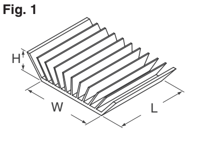

Fig. 2

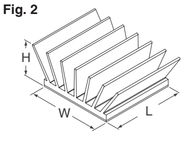

Fig. 3

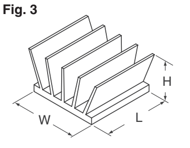

Fig. 4

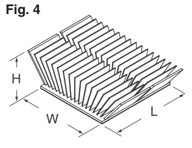

Fig. 5

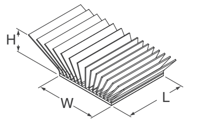

Fig. 6

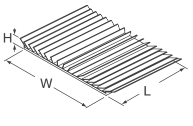

Dimensions (mm) L	W	H	Thermal Resist. @ 200 LFM (1m/sec.) Unducted Flow	Ducted Flow	Digi-Key Part No.	Price Each 1	10	100
With Tape								
Fig. 1								
30	30	9	4.0	2.2	ATS1331-ND	12.22	8.94	7.41
40	30	5	7.9	4.8	ATS1335-ND	13.28	10.17	8.61
50	45	15	2.8	1.65	ATS1336-ND	17.73	13.58	11.50
50	45	12.5	3.9	1.7	ATS1337-ND	18.64	14.27	12.08
45	45	15	2.4	1.7	ATS1338-ND	18.86	14.44	12.23
50	45	16.5	2.1	1.3	ATS1339-ND	19.83	15.19	12.86
50	45	8.5	4.0	2.3	ATS1341-ND	13.40	10.26	8.69
57.5	57.5	12.5	2.3	1.1	ATS1342-ND	23.30	18.54	15.97
Fig. 2								
19	19	9	5.3	3.3	ATS1332-ND†	7.35	5.03	4.01
25	25	4	9.0	5.2	ATS1333-ND	10.00	7.32	6.06
Fig. 3								
15	15	9	12.0	9.0	ATS1334-ND	12.94	9.91	8.39
Fig. 4								
58	30	9	4.8	2.4	ATS1340-ND	13.19	10.10	8.55
Fig. 5								
42	42	16	2.8	1.4	ATS1343-NDΔ	22.12	16.93	14.34
42	42	16	2.2	1.2	ATS1344-NDΔ	22.13	17.61	15.17
Without Tape								
Fig. 1								
30	30	9	4.0	2.2	ATS1345-ND	11.72	8.57	7.10
40	30	5	7.9	4.8	ATS1349-ND	12.90	9.88	8.36
50	45	15	2.8	1.65	ATS1350-ND	17.35	13.28	11.25
50	45	12	3.9	1.7	ATS1351-ND	18.25	13.97	11.83
45	45	15	2.4	1.7	ATS1352-ND	18.48	14.15	11.98
57.5	57.5	12.5	2.3	1.1	ATS1356-ND	22.95	18.26	15.74
Fig. 2								
19	19	9	5.3	3.3	ATS1346-ND†	6.75	4.62	3.68
25	25	4	9.0	5.2	ATS1347-ND	10.76	7.87	6.52
Fig. 3								
15	15	9	12.0	8.0	ATS1348-ND	12.49	9.57	8.10
Fig. 4								
50	45	8.5	4.0	2.3	ATS1355-ND	13.01	9.96	8.44
Fig. 6								
50	45	16	2.1	1.3	ATS1353-ND	19.68	15.06	12.76
58	30	9	4.8	2.4	ATS1354-ND	12.81	9.81	8.31

† Red Anodized Δ Gold Anodized

(Continued)

LGA Cooling Solutions (For Freescale MPC 8641D) — Black Anodized, Includes Mounting Hardware

Fig. 1

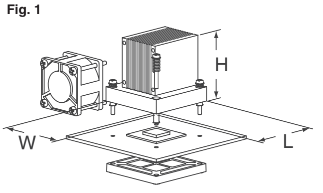

Fig. 2

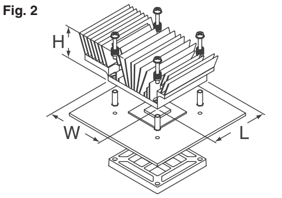

Fig. 3

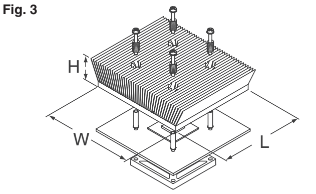

Fig. 4

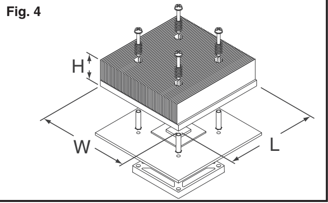

Fig.	Dimensions (mm) L	W	H	Thermal Resistance @ 200 LFM (1m/sec.) Unducted Flow	Ducted Flow	Digi-Key Part No.	Price Each 1	10	100
1	56	56	52	—	0.51	ATS1357-ND	76.65	63.50	55.61
2	56	56	31	1.01	0.6	ATS1358-ND	30.53	24.29	20.93
3	94	101	27	1.00	0.5	ATS1359-ND	61.58	51.01	44.68
4	94	94	27	1.38	0.8	ATS1360-ND	52.34	43.36	37.98

Custom Cooling Solutions

Using maxiGRIP™ Attachment For Flip-Chip Processors (such as Freescale MPCs) — Black Anodized, Phase Change Material

Not to be used with maxiGRIP Installation and Removal Tools

Fig.	Dimensions (mm) L	W	H	Thermal Resist. @ 200 LFM (1m/sec.) Unducted Flow	Ducted Flow	Digi-Key Part No.	Price Each 1	10
1	21	45	9	6.1	4.2	ATS1365-ND	28.17	22.41
	28	45	11	4.5	3.0	ATS1366-ND	29.87	23.76
	25	32	13	6.5	3.8	ATS1367-ND	27.65	22.00
2	32	50	12	3.8	2.4	ATS1368-ND	20.35	15.58
	32	50	12	3.2	1.9	ATS1369-ND	20.58	15.76
	29	37	10	6.2	3.8	ATS1370-ND	22.54	17.26
	29	37	11	6.2	3.8	ATS1371-ND	20.63	16.42
	35	46	16.75	2.42	1.6	ATS1372-ND	17.30	13.25
	35	46	16.75	2.42	1.6	ATS1373-ND	17.35	13.28
3	62	52	13	3.2	1.8	ATS1374-ND†	22.54	17.26
	62	52	13	3.2	1.8	ATS1375-ND	21.04	16.74

† High Conductivity Thermal Tape

Fig. 1

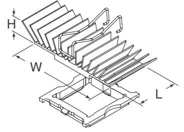

Fig. 2

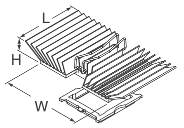

Fig. 3

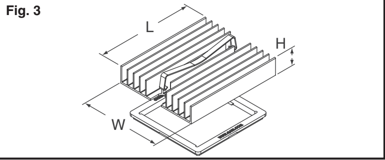

LED Heat Sinks

For LED Lighting Modules, Black Anodized

Fig. 1

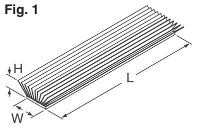

Fig. 2

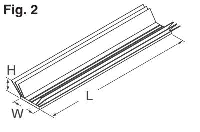

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
Fig. 1							
330	45	26	1.2	ATS1361-ND	29.77	23.68	20.41
305	45	26	1.3	ATS1362-ND	27.72	22.05	19.00
Fig. 2							
305	45	26	0.6	ATS1363-ND	23.61	18.78	16.19
305	45	26	0.6	ATS1364-ND†	27.72	22.05	19.00

† Thermal Tape

THE BERGQUIST COMPANY

Heat Sink Pads "The Alternative To Grease"

Sil-Pad 600® is a thermally conductive, silicone elastomer filled with special ingredients to provide higher thermal properties than the original fiberglass based Sil-Pad. This material has excellent physical and mechanical characteristics while remaining cost competitive. (Electrically Insulating Material)

Sil-Pad 900-S® family of thermally conductive insulation materials are designed for low cost applications requiring high thermal performance. Intended as an improved Sil-Pad 600 alternative.

Q-Pad 3® is a thermally conductive, fiberglass reinforced graphite imbedded elastomer which conforms to surface textures extremely well. This material eliminates problems associated with thermal grease such as contamination of electronic assemblies and reflow solder baths. Q-Pad 3 may be installed prior to soldering and cleaning. (Electrically Conducting Material)

Sil-Pad K10® is a thermally conductive Kapton composite film coated with boron nitride filled polyester resin, offering the highest thermal properties of the Kapton insulators with minimum thickness and lower thermal resistance. Designed to replace brittle ceramic insulators. (Electrically Insulating Material)

CPU Pad® is a thermally conductive, electrically insulating, Kapton double coated tape. Typically used between the CPU and heat sink, it was designed to be used in place of clips used to attach heat sink to CPU. No clamping times or high pressure is required.

SPT 400 is a thermally conductive insulation for clip mounted plastic power devices. These TO-220 thermal tubes slip over the semiconductor device and conduct the heat to the heat sink and clip. Designed to be used on heat sinks with metal clips to attach device to heat sink. (Electrically Insulating Material)

HI-FLOW™ 115-AC is a thermally conductive fiber reinforced phase change material. The product consists of a thermally conductive 65° C phase change compound coated on a fiberglass web with an adhesive coating on one side for attachment to a cold heat sink. Handles like a Sil-Pad at room temperature and flows like high quality grease at elevated temperature.

Bond Ply™ 100 is a thermally conductive, double-sided pressure sensitive adhesive tape. The tape consists of a high performance, thermally conductive acrylic adhesive coated with a fiberglass reinforced interweave. Bond Ply 100 is designed to attain high bond strength to a variety of surfaces and to maintain high bond strength with long term exposure to moderate heat and high humidity. Typical Applications: • Mounting a heat sink to a BGA graphic processor • Mounting a heat sink to a computer processor • Mounting a heat spreader to a power converter PCB • Mounting a heat spreader to a motor control PCB.

Gap Pad™ 1500 is designed to cost-effectively maximize heat transfer from electronic components to heat sinks or heat spreaders. GP 1500 is a highly conformable low-modulus material that fills air gaps due to steps, rough surfaces and high stack-up tolerances. The softness relieves stress and absorbs shocks minimizing damage to delicate leads. GP 1500 is an electrically isolating material that allows its use in applications requiring isolation between heat sinks and high voltage, bare leaded devices.

Gap Pad™ 1500R has the same highly conformable low modulus polymer as the standard Gap Pad™ 1500. The fiberglass reinforcement allows for easy material handling and enhances puncture, shear, and tear resistance. The tacky nature of both sides of the material allows for good compliance to mating surfaces of components, further reducing thermal resistance.

Sil-Pad K-4® uses a specially developed film which has high thermal conductivity, high dielectric strength and is very durable. Sil-Pad K-4 combines the thermal transfer properties of well-known Sil-Pad rubber with the physical properties of a film. Sil-Pad K-4 is a durable insulator that withstands high voltages and requires no thermal grease to transfer heat.

Sil-Pad K-6® is a medium performance film-based thermally conductive insulator. The film is coated with a silicone elastomer to deliver high performance and provides a continuous physically tough dielectric barrier against "cut-through" and resultant assembly failures.

Sil-Pad 1000® has the same excellent mechanical and physical characteristics of our Sil-Pad 400 material while offering a 35% reduction in thermal resistance. Sil-Pad 1000 is a composite of silicone rubber and fiberglass. It is specially filled and offers low thermal resistance. Sil-Pad 1000 is non-toxic and resists damage from cleaning agents. It is flame retardant and specially formulated for use as a thermally conductive insulator.

Sil-Pad 2000® is Bergquist's high performance, high reliability, thermally conductive insulator. Sil-Pad 2000 is designed for demanding military/aerospace and commercial applications. In these applications, Sil-Pad 2000 complies with military standards. This silicone elastomer is specially filled to maximize the thermal and dielectric performance of the filler/binder matrix. The result is a "grease-free", conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications.

Gap-Pad® VO Ultra Soft is recommended for extremely low stress applications. The viscoelastic nature of the material also gives excellent low stress vibration dampening and absorbing shock characteristics. Gap Pad VO Ultra Soft is an electrically isolating material which allows its use in applications requiring isolation between heat sinks and high voltage and bare leaded devices.

Fig. 1

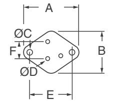

Fig. 2

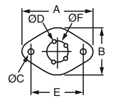

Fig. 3

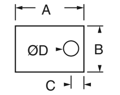

Fig. 4

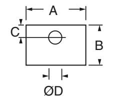

Fig. 5

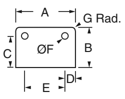

Fig. 6

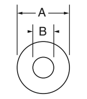

Fig. 7

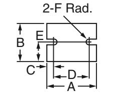

Fig. 8

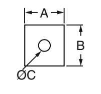

Fig. 9

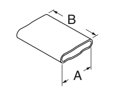

Fig. 10

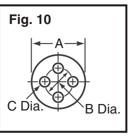

Fig.	Device Type	Dimensions – Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Pricing 1	10	50	100	Bergquist Part No.
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER100-ND	.52	4.67	20.93	37.03	SP600-05
	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER172-ND	.52	4.67	20.93	37.03	SP900S-0.009-00-05
	TO-3	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER101-ND	.59	5.25	23.53	41.63	SP600-02
	TO-3	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER171-ND	.59	5.25	23.53	41.63	SP900S-0.009-00-02
	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER111-ND	1.61	14.38	64.48	114.08	SPK10-0.006-00-05

* Made of SP400 material.

(Continued)

Fig.	Device Type	Dimensions – Inch (mm)							Digi-Key Part No.	Pricing				Bergquist Part No.
		A	B	C	D	E	F	G		1	10	50	100	
1	TO-3	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER112-ND	1.86	16.59	74.36	131.56	SPK10-0.006-00-02
	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER122-ND	.21	1.91	8.58	15.18	Q3-0.005-00-05
	TO-3	1.25 (31.75)	.700 (17.78)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER152-ND	.88	7.86	35.23	62.33	SPK10-0.006-00-30
	TO-3	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER209-ND*	.30	2.67	11.96	21.16	SP400-0.009-00-02
	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER203-ND*	.27	2.44	10.92	19.32	SP400-0.007-00-05
	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER212-ND*	.27	2.44	10.92	19.32	SP400-0.009-00-05
	TO-3	1.65 (41.91)	1.14 (28.96)	.122 (3.10)	.062 (1.57)	1.187 (30.15)	.430 (10.92)	—	BER211-ND*	.27	2.44	10.92	19.32	SP400-0.009-00-04
	TO-3	1.563 (39.70)	1.05 (26.67)	.140 (3.56)	.080 (2.03)	1.187 (30.15)	.430 (10.92)	—	BER210-ND*	.25	2.26	10.14	17.94	SP400-0.009-00-03
	TO-3	1.312 (33.32)	.762 (19.35)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER218-ND*	.20	1.80	8.06	14.26	SP400-0.009-00-11
2	TO-3 (4PIN)	1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER140-ND	1.44	12.82	57.46	101.66	SPK10-0.006-00-86
	TO-3 (4PIN)	1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER141-ND	.20	1.80	8.06	14.26	Q3-0.005-00-86
3	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER178-ND	.30	2.67	11.96	21.16	SP900S-0.009-00-104
	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER120-ND	.78	6.96	31.20	55.20	SPK10-0.006-00-104
	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER131-ND	.16	1.39	6.24	11.04	Q3-0.005-00-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER200-ND	1.36	12.15	54.47	96.37	SP2000-0.015-00-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER204-ND*	.18	1.62	7.28	12.88	SP400-0.007-00-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER221-ND	.32	2.81	12.61	22.31	SPK4-0.006-00-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER109-ND	.30	2.67	11.96	21.16	SP600-104
	TO-220	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER208-ND*	.19	1.54	6.89	12.19	SP400-0.007-00-90
	TO-220	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER217-ND*	.17	1.54	6.89	12.19	SP400-0.009-00-90
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER102-ND	.22	2.00	8.97	15.87	SP600-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER176-ND	.22	2.00	8.97	15.87	SP900S-0.009-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER103-ND	.22	2.00	8.97	15.87	SP600-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER175-ND	.22	2.00	8.97	15.87	SP900S-0.009-00-54
	TO-220	.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER110-ND	.22	2.00	8.97	15.87	SP600-43
	TO-220	.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER174-ND	.22	2.00	8.97	15.87	SP900S-0.009-00-43
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER113-ND	.49	4.38	19.63	34.73	SPK10-0.006-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER114-ND	.49	4.38	19.63	34.73	SPK10-0.006-00-54
	TO-220	.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER121-ND	.49	4.38	19.63	34.73	SPK10-0.006-00-43
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER124-ND	.13	1.19	5.33	9.43	Q3-0.005-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER125-ND	.13	1.19	5.33	9.43	Q3-0.005-00-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER198-ND	.24	2.12	9.49	16.79	1009-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER201-ND	.81	7.19	32.24	57.04	SP2000-0.015-00-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER206-ND*	.15	1.33	5.98	10.58	SP400-0.007-00-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER215-ND*	.15	1.33	5.98	10.58	SP400-0.009-00-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER219-ND	.19	1.68	7.54	13.34	SPK4-0.006-00-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER199-ND	.24	2.12	9.49	16.79	1009-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER202-ND	.81	7.19	32.24	57.04	SP2000-0.015-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER207-ND*	.15	1.33	5.98	10.58	SP400-0.007-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER216-ND*	.15	1.33	5.98	10.58	SP400-0.009-00-58
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER220-ND	.19	1.68	7.54	13.34	SP400-0.009-00-11
	TO-220	.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER132-ND	.13	1.19	5.33	9.43	Q3-0.005-00-43
	TO-220	.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER205-ND*	.15	1.33	5.98	10.58	SP400-0.007-00-51
	TO-220	.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER214-ND*	.15	1.33	5.98	10.58	SP400-0.009-00-51
	TO-220	.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER146-ND	.50	4.47	20.02	35.42	SPK10-0.006-00-51
	TO-220	.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER147-ND	.14	1.22	5.46	9.66	Q3-0.005-00-5
	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER108-ND	.28	2.47	11.05	19.55	SP600-90
	TO-220	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER177-ND	.28	2.47	11.05	19.55	SP900S-0.009-00-90
	TO-220	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER119-ND	.69	6.18	27.69	48.99	SPK10-0.006-00-90
	TO-220	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER130-ND	.15	1.33	5.98	10.58	Q3-0.005-00-90
4	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER107-ND	.31	2.73	12.22	21.62	SP600-114
	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER180-ND	.31	2.73	12.22	21.62	SP900S-0.009-00-114
	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER118-ND	.80	7.16	32.11	56.81	SPK10-0.006-00-114
5	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER106-ND	.39	3.51	15.73	27.83	SP600-105
	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER117-ND	1.13	10.09	45.24	80.04	SPK10-0.006-00-105
	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER179-ND	.39	3.51	15.73	27.83	SP900S-0.009-00-105
6	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER105-ND	.35	3.10	13.91	24.61	SP600-25
	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER173-ND	.35	3.10	13.91	24.61	SP900S-0.009-00-25
	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER116-ND	.97	8.61	38.61	68.31	SPK10-0.006-00-25
7	SIP Module	1.50 (38.10)	.900 (22.86)	.150 (3.81)	1.20 (30.48)	.450 (11.43)	.075 (1.91)	—	BER136-ND	.19	1.68	7.54	13.34	Q3-0.005-00-67
	SIP Module	2.50 (63.50)	2.00 (50.80)	.344 (8.74)	1.81 (46.02)	1.00 (25.40)	.156 (3.96)	—	BER137-ND	.37	3.31	14.82	26.22	Q3-0.005-00-101
8	CPU	.63 (16.00)	.63 (16.00)	—	—	—	—	—	BER133-ND	.31	2.73	12.22	21.62	CPU .63X.63
	CPU	1.375 (34.93)	1.375 (34.93)	—	—	—	—	—	BER135-ND	.86	7.71	34.58	61.18	CPU 1.375X1.375
	Bridge Rect.	1.00 (25.40)	1.00 (25.40)	.187 (4.75)	—	—	—	—	BER142-ND	.17	1.51	6.76	11.96	Q3-0.005-00-48
	Bridge Rect.	1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER144-ND	.20	1.77	7.93	14.03	Q3-0.005-00-46
	Bridge Rect.	1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER145-ND	1.38	12.30	55.12	97.52	SPK10-0.006-00-46
9	TO-220 Tubes	.433 (11.00)	.985 (25.02)	—	—	—	—	—	BER156-ND	.38	3.42	15.34	27.14	SPT400-12-11-25
	TO-247 Tubes	.532 (13.50)	.985 (25.02)	—	—	—	—	—	BER157-ND	.41	3.65	16.38	28.98	SPT400-12-13.5-25
10	TO-5	.360 (9.14)	.200 (5.08)	.040 (1.02)	—	—	—	—	BER213-ND*	.13	1.13	5.07	8.97	SP400-0.009-00-09
"Hi-Flow™" Single Side Adhesive Backed Pads (Phase Change)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER166-ND	.28	2.47	11.05	19.55	HF115AC-0.0055-AC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER167-ND	.10	.85	3.82	6.76	HF115AC-0.0055-AC-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER168-ND	.10	.85	3.82	6.76	HF115AC-0.0055-AC-58
	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER169-ND	.11	.97	4.37	7.73	HF115AC-0.0055-AC-90
5	SIP	1.450 (36.83)	.830 (21.08)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER170-ND	.14	1.22	5.46	9.66	HF115AC-0.0055-AC-105

* Made of SP400 material.

(Continued)

Heat Sink Pads “The Alternative To Grease” *(Cont.)*

Fig.	Device Type	Dimensions – Inch (mm)							Digi-Key Part No.	Pricing				Bergquist Part No.
		A	B	C	D	E	F	G		1	10	50	100	
“SP900” Single Side Adhesive Backed Pads (Low Mounting Pressure)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER181-ND	.57	5.05	22.62	40.02	SP900S-0.009-AC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER182-ND	.23	2.09	9.36	16.56	SP900S-0.009-AC-54
	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER183-ND	.23	2.09	9.36	16.56	SP900S-0.009-AC-58
“Bond Ply™ 100” Double Sided Thermal Tape														
Double Sided Adhesive Thermal Pad, .005” (.127) Thick, 11” x 12” (27.94 x 30.48cm) Square Sheet									BER246-ND	27.05	248.86	1082.00	1839.40	BP100-0.005-00-1112
Double Sided Adhesive Thermal Pad, .008” (.203) Thick, 10” (25.4cm) Square Sheet									BER159-ND	21.95	201.94	878.00	1492.60	BP100-0.008-00-1010
Double Sided Adhesive Thermal Pad, .011” (.279) Thick, 10” (25.4cm) Square Sheet									BER160-ND	18.70	176.00	825.00	1540.00	BP100-0.011-00-1010
“Gap Pad™ 1500” Thermal Gap Filling Material														
High Thermally Conductive Pad, .020” (.508) Thick, 4” (10.16cm) Square Sheet									BER161-ND	7.80	69.60	312.00	552.00	GP1500-0.020-02-0404
High Thermally Conductive Pad, .040” (1.02) Thick, 4” (10.16cm) Square Sheet									BER162-ND	8.25	75.90	330.00	561.00	GP1500-0.040-02-0404
High Thermally Conductive Pad, .060” (1.52) Thick, 4” (10.16cm) Square Sheet									BER163-ND	9.45	86.94	378.00	642.60	GP1500-0.060-02-0404
High Thermally Conductive Pad, .080” (2.03) Thick, 4” (10.16cm) Square Sheet									BER164-ND	11.15	102.58	446.00	758.20	GP1500-0.080-02-0404
High Thermally Conductive Pad, .125” (3.18) Thick, 4” (10.16cm) Square Sheet									BER165-ND	20.30	186.76	812.00	1380.40	.GP1500-0.080-02-0404
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER227-ND	51.80	487.52	2285.25	4265.80	GP1500-0.040-02-0816
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER228-ND	45.90	432.00	2025.00	3780.00	GP1500-0.060-02-0816
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER229-ND	53.98	508.00	2381.25	4445.00	GP1500-0.080-02-0816
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER230-ND	92.65	872.00	4087.50	7630.00	GP1500-0.125-02-0816
“Gap Pad™ 1500R” Thermal Gap Filling Material														
High Thermally Conductive Pad, .010” (.254) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER231-ND	28.36	266.88	1251.00	2335.20	GP1500R-0.010-02-0816
High Thermally Conductive Pad, .015” (.381) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER232-ND	34.73	326.88	1532.25	2860.20	GP1500R-0.015-02-0816
High Thermally Conductive Pad, .020” (.508) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER233-ND	38.17	359.20	1683.75	3143.00	GP1500R-0.020-02-0816
“Gap Pad™ VO Ultra Soft” Thermal Gap Filling Material														
High Thermally Conductive Pad, .020” (.508) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER222-ND	31.52	296.64	1390.50	2595.60	GPVOUS-0.020-00-0816
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER223-ND	41.65	392.00	1837.50	3430.00	GPVOUS-0.040-00-0816
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER224-ND	48.03	452.00	2118.75	3955.00	GPVOUS-0.060-00-0816
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER225-ND	56.53	532.00	2493.75	4655.00	GPVOUS-0.080-00-0816
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER226-ND	94.35	888.00	4162.50	7770.00	GPVOUS-0.125-00-0816

* Made of SP400 material

Heat Sinks

CTS Electronic Components (California) Inc. has helped pioneer the development of semiconductor heat sinks since 1954. Primarily used by all levels of OEM's engaged in the manufacture of commercial and military equipment, CTS maintains stock and support from prototype through production. CTS has prided themselves for their flexible manufacturing, quality products and on-time delivery. Clip-On versions have a built-in clip for attaching a device to a heat sink without additional hardware, positive locks prevent the semiconductor from sliding out.

TO-220 versions will also fit TO-202, TO-218 and TO-126 packages. Wattage values listed are at still air conduction only. Moving air will increase this value.

Fig. 1

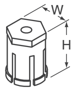

Fig. 2

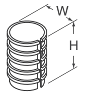

Fig. 3

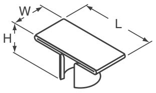

Fig. 4

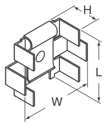

Fig. 5

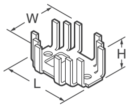

Fig. 6

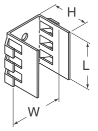

Fig. 7

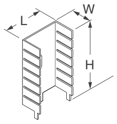

Fig. 8

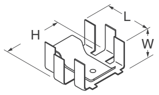

Fig.	Description	Dimensions - Inch (mm) L x W x H	Thermal Res. C/Watt	Digi-Key Part No.	Price Each			CTS Part No.
					1	10	100	
1	TO-8, Press-On Mount, w/out Hardware, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1118-ND	10.17	9.15	8.82	TXB2-032-037B
	TO-18, Press-On Mount, w/Hardware Black, 5W	— x .220 x .340 (— x 5.59 x 8.64)	150.26	294-1123-ND	35.37	27.51	23.58	TXP1808B
	TO-18, Press-On Mount, w/Hardware, Nickel .6W	— x .220 x .280 (— x 5.59 x 7.11)	150.26	294-1141-ND◆	11.67	10.51	10.12	TXB2P-019-028ND
2	TO-5, Press-On Mount, Black, 2W	— x .440 x .500 (— x 11.18 x 12.70)	35.00	294-1105-ND◆	3.32	2.99	2.33	7-120-BA
3	TO-5, Press-On Mount, Black, 1W	.700 x .325 x .250 (17.78 x 8.26 x 6.35)	58.00	294-1106-ND◆	2.90	2.42	1.70	7-175-BA
4	TO-220, Vertical/Horizontal Clip-on Mount, Black, 1.5W	.810 x 1.00 x .310 (20.57 x 25.40 x 7.87)	140.50	294-1115-ND◆	1.86	1.55	1.09	PSC2-2CB
5	TO-220, Power Horizontal Mount, 8W	1.31 x .90 x .750 (33.27 x 22.86 x 19.05)	17.00	294-1036-ND◆	2.50	2.09	1.46	LAE66A3CB
6	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2.5W	.710 x .800 x .500 (18.03 x 20.32 x 12.70)	30.00	294-1107-ND◆	1.57	1.31	.92	7-361-BA
	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2W	.710 x .800 x .340 (18.03 x 20.32 x 8.64)	38.00	294-1108-ND◆	1.27	1.15	.90	7-362-BA
	TO-220, Horizontal Mount, 3W (No Mounting Hole)	1.09 x .620 x 1.31 (27.69 x 15.75 x 33.27)	30.00	294-1013-ND◆	.66	.52	.39	7-300-000-BA
7	TO-220, Vertical PC Mount w/Tabs, 5W	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	20.00	294-1042-ND◆	1.95	1.63	1.14	PB1-36CB
	TO-220, Vertical PC Mount w/Tabs, 6W	.880 x .250 x 1.25 (22.35 x 6.35 x 31.75)	25.40	294-1045-ND◆	1.81	1.42	1.06	PSB2-1CB
8	TO-220, High Efficiency, 4W	.710 x .500 x 1.00 (18.03 x 12.70 x 25.40)	26.80	294-1039-ND◆	1.83	1.53	1.07	PA1-1CB
	TO-220, Low Profile Clip-On, w/ Antirotation, Black	.810 x .310 x 1.00 (20.57 x 7.87 x 25.40)	40.50	294-1049-ND◆	1.17	.98	.69	PSC2T-2CB
9	TO-220, Power Vertical Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1034-ND◆	3.85	3.47	2.70	7-340-1PP-BA
	TO-220, Power Horizontal Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1035-ND◆	3.86	3.47	2.70	7-340-3PP-BA
	Dual TO-220, Universal Mount, 9W	1.50 x 1.15 x .460 (38.10 x 29.21 x 11.68)	7.00	294-1080-ND◆	3.91	3.52	2.74	7-340-2PP-BA
10	TO-220, Power Vertical Mount w/Pins, 11W	1.38 x .500 x 1.50 (35.05 x 6.35 x 38.10)	13.00	294-1024-ND◆	7.13	6.42	5.00	7-338-1PP-BA
	TO-220, Power Vertical Mount w/Pins, 11W	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	11.00	294-1029-ND◆	8.69	7.83	6.09	7-339-1PP-BA
	TO-220, Power Vertical Mount w/Pins, 15W	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	5.00	294-1031-ND◆	9.17	8.26	6.43	7-339-3PP-BA
	TO-220, Power Vertical Mount w/Pins, 17W	1.38 x .500 x 2.50 (35.05 x 6.35 x 63.50)	4.00	294-1027-ND◆	6.59	5.94	4.62	7-338-4PP-BA
	TO-220, Power Vertical Mount w/Pins, 17W	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	4.00	294-1032-ND◆	9.65	8.69	6.76	7-339-4PP-BA

◆ ***RoHS Compliant***

(Continued)

CTS Heat Sinks *(Cont.)*

Fig. 9

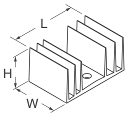

Fig. 10

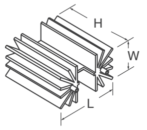

Fig. 11

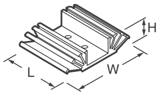

Fig. 12

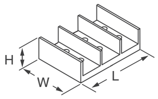

Fig. 13

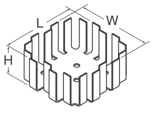

Fig. 14

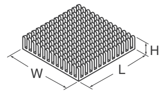

Fig. 15

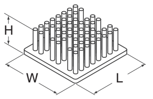

Fig. 16

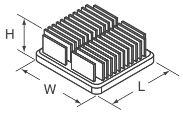

Fig.	Description	Dimensions - Inch (mm) L x W x H	Thermal Res. C/Watt	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
11	TO-220, Power Horizontal/Vertical Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1067-ND◆	3.66	3.30	2.57	7-345-1PP-BA
	TO-220, Power Horizontal Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1068-ND◆	2.90	2.61	2.03	7-345-3PP-BA
	Dual TO-220, Power Universal Mount, 15W	1.50 x 2.00 x .553 (38.10 x 50.80 x 14.05)	4.00	294-1082-ND◆	4.07	3.67	2.85	7-345-2PP-BA
12	Triple TO-220, Vertical Mount, 7W	1.61 x .750 x .690 (40.89 x 19.05 x 17.53)	9.00	294-1085-ND◆	8.55	7.70	5.99	7-342-1PP-BA
	Six TO-220, Horizontal Mount, 15W	1.61 x 1.50 x .690 (40.89 x 38.10 x 17.53)	4.00	294-1086-ND◆	4.47	4.02	3.13	7-342-2PP-BA
13	TO-3, Power Horizontal Mount, Black, 8W	1.78 x 1.78 x 1.00 (45.21 x 45.21 x 25.40)	7.10	294-1124-ND◆	3.98	3.59	2.79	UP-TO3-CB
	TO-3, Power Horizontal Mount, 15W	2.50 x 2.50 x .900 (63.50 x 63.50 x 22.86)	5.40	294-1088-ND◆	3.94	3.55	2.76	HP1-TO3-CB
14	Various Semiconductor, Adhesive Backed	.910 x .910 x .355 (23.11 x 23.11 x 9.02)	26.90	294-1097-ND◆	3.04	2.74	2.13	BDN09-3CB/A01
	Various Semiconductor, Adhesive Backed	1.01 x 1.01 x .355 (25.65 x 25.65 x 9.02)	26.40	294-1098-ND◆	3.12	2.81	2.19	BDN10-3CB/A01
	Various Semiconductor, Adhesive Backed	1.11 x 1.11 x .355 (28.19 x 28.19 x 9.02)	20.90	294-1109-ND◆	3.14	2.83	2.20	BDN11-3CB/A01
	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .355 (30.73 x 30.73 x 9.02)	19.60	294-1099-ND◆	3.25	2.93	2.28	BDN12-3CB/A01
	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .555 (30.73 x 30.73 x 14.10)	16.50	294-1110-ND◆	3.45	3.11	2.42	BDN12-5CB/A01
	Various Semiconductor, Adhesive Backed	1.31 x 1.31 x .355 (33.27 x 33.27 x 9.02)	16.10	294-1100-ND◆	3.40	3.06	2.38	BDN13-3CB/A01
	Various Semiconductor, Adhesive Backed	1.41 x 1.41 x .355 (35.81 x 35.81 x 9.02)	16.20	294-1101-ND◆	3.58	3.23	2.51	BDN14-3CB/A01
	Various Semiconductor, Adhesive Backed	1.51 x 1.51 x .355 (38.35 x 38.35 x 9.02)	15.10	294-1102-ND◆	4.10	3.69	2.87	BDN15-3CB/A01
	Various Semiconductor, Adhesive Backed	1.61 x 1.61 x .355 (40.89 x 40.89 x 9.02)	13.50	294-1103-ND◆	4.20	3.78	2.94	BDN16-3CB/A01
	Various Semiconductor, Adhesive Backed	1.71 x 1.71 x .355 (43.43 x 43.43 x 9.02)	11.50	294-1111-ND◆	4.92	4.43	3.45	BDN17-3CB/A01
	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .355 (45.97 x 45.97 x 9.02)	10.80	294-1104-ND◆	4.56	4.11	3.20	BDN18-3CB/A01
	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .605 (45.97 x 45.97 x 15.37)	8.10	294-1112-ND◆	4.95	4.46	3.47	BDN18-6CB/A01
15	Various SMT Semiconductor	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1125-ND◆	4.60	4.14	3.22	APR27-27-12CB
	Various SMT Semiconductor, with Thermal Tape	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1126-ND◆	6.15	5.54	4.31	APR27-27-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1127-ND◆	3.75	3.38	3.25	APR27-27-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1128-ND◆	3.75	3.38	3.25	APR27-27-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1129-ND◆	3.75	3.38	3.25	APR27-27-12CB/T
	Various SMT Semiconductor	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1130-ND◆	6.71	6.05	4.70	APR33-33-12CB
	Various SMT Semiconductor, with Thermal Tape	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1131-ND◆	6.77	6.10	4.74	APR33-33-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1132-ND◆	4.10	3.69	3.55	APR33-33-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1133-ND◆	4.10	3.69	3.55	APR33-33-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1134-ND◆	4.10	3.69	3.55	APR33-33-12CB/T
	Various SMT Semiconductor	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1135-ND◆	5.30	4.77	3.71	APR38-38-12CB
	Various SMT Semiconductor, with Thermal Tape	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1136-ND◆	8.38	7.54	5.87	APR38-38-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1137-ND◆	4.17	3.76	3.62	APR38-38-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1138-ND◆	4.17	3.76	3.62	APR38-38-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1139-ND◆	4.17	3.76	3.62	APR38-38-12CB/T
16	Heatsink Low-Profile Forged	.748 x .748 x .248 (19 x 19 x 6.3)	7.05	294-1145-ND◆	4.75	4.28	3.33	APF19-19-06CB
	Heatsink Forged with Adhesive Tape	.748 x .748 x .248 (19 x 19 x 6.3)	7.05	294-1146-ND◆	7.25	6.53	5.08	APF19-19-06CB/A01
	Heatsink Low-Profile Forged	.748 x .748 x .374 (19 x 19 x 9.5)	5.25	294-1147-ND◆	4.75	4.28	3.33	APF19-19-10CB
	Heatsink Forged with Adhesive Tape	.748 x .748 x .374 (19 x 19 x 9.5)	5.25	294-1148-ND◆	7.03	6.33	4.92	APF19-19-10CB/A01
	Heatsink Forged with Adhesive Tape	.748 x .748 x .500 (19 x 19 x 12.7)	3.95	294-1150-ND◆	6.99	6.29	4.90	APF19-19-13CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .248 (30 x 30 x 6.3)	4.35	294-1151-ND◆	8.38	7.54	5.87	APF30-30-06CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .248 (30 x 30 x 6.3)	4.35	294-1152-ND◆	8.84	7.96	6.19	APF30-30-06CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .374 (30 x 30 x 9.5)	3.25	294-1153-ND◆	7.85	7.07	5.50	APF30-30-10CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .374 (30 x 30 x 9.5)	3.25	294-1154-ND◆	9.10	8.19	6.37	APF30-30-10CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .500 (30 x 30 x 12.7)	2.45	294-1155-ND◆	6.58	5.92	4.61	APF30-30-13CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .500 (30 x 30 x 12.7)	2.45	294-1156-ND◆	7.29	6.57	5.11	APF30-30-13CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .248 (40 x 40 x 6.3)	3.30	294-1157-ND◆	9.30	8.37	6.51	APF40-40-06CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .248 (40 x 40 x 6.3)	3.30	294-1158-ND◆	10.55	9.50	7.39	APF40-40-06CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .374 (40 x 40 x 9.5)	2.50	294-1159-ND◆	7.81	7.03	5.47	APF40-40-10CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .374 (40 x 40 x 9.5)	2.50	294-1160-ND◆	10.63	9.57	7.44	APF40-40-10CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .500 (40 x 40 x 12.7)	1.90	294-1161-ND◆	8.24	7.42	5.77	APF40-40-13CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .500 (40 x 40 x 12.7)	1.90	294-1162-ND◆	10.71	9.65	7.50	APF40-40-13CB/A01

◆ ***RoHS Compliant***

ZIF III Circuit Board Retainers

RoHS COMPLIANT

The ZIF retainer is a self-contained, precision assembly that provides highly effective thermal interface between the circuit board and cold plate CTS ZIF III features a quick, quarter-turn locking mechanism that provides for a positive and fast assembly. The unique locking design produces a uniform pressure distribution along the PCB edge for optimal heat transfer and resistance to extreme shock and vibration.

Features:
• PC board mountable (screw mounting) • Positive 1/4 turn locking • Field maintainable • Superior mechanical retention • Thermally efficient, 1.2°C-inch/Watt

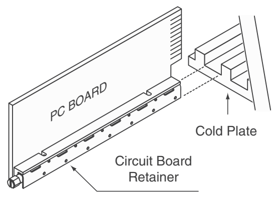

Description	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
PCB Retainer – Hex Head Drive, 4.50" Housing Assembly, Left Hand Part	294-1163-ND	79.65	66.38	59.74	Z3A45SBSBNL
PCB Retainer – Hex Head Drive, 4.50" Housing Assembly, Right Hand Part	294-1164-ND	79.65	66.38	59.74	Z3A45SBSBNR
PCB Retainer – Hex Head Drive, 5.25" Housing Assembly, Left Hand Part	294-1165-ND	69.35	57.80	52.02	Z3A52SBSBNL
PCB Retainer – Hex Head Drive, 5.25" Housing Assembly, Right Hand Part	294-1166-ND	69.35	57.80	52.02	Z3A52SBSBNR

COMAIR ROTRON

DC Brushless and Tachometer Fans, Blowers and Impellers

RoHS COMPLIANT

DC Fans - Motor: • Brushless electronic commutation provided by dependable solid-state circuitry • 100% dielectric tested at 600VAC/1 second/400 microamps maximum leakage • Polarity protected *Note: Custom Fan Cable Assemblies available upon request.*

Fig. 1

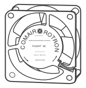

Fig. 2

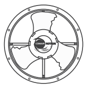

Fig. 3

Fig. 4

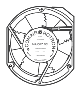

Fig. 5

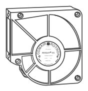

Fig. 6 ***NEW!***

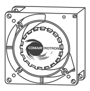

Fig. 7 ***NEW!***

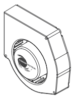

Fig.	Dimensions - mm	Voltage		Connection Type	Bearing	Power (Watts)	Running Current	CFM	Digi-Key Part No.	Price Each		Comair Rotron Part No.	Finger Guards	Price Each
		Nom.	Range							1	25			
Brushless DC Fans														
1	40 x 10	12	10.8 ~ 13.2	Lead Wires	Ball	1.2	120mA	6.80	CR015-ND	11.37	7.51	032608	CR230-ND	.61
	40 x 20	5	4.5 ~ 5.5	Lead Wires	Ball	0.7	140mA	7.5	CR523-ND ***NEW!***	11.37	7.51	032620	CR230-ND	.61
	40 x 20	12	10.8 ~ 13.2	Lead Wires	Ball	1.2	100mA	10	CR016-ND	11.37	7.51	032622	CR230-ND	.61
	40 x 20	24	21.6 ~ 26.4	Lead Wires	Ball	22	90mA	10	CR360-ND	11.37	7.51	032628	CR230-ND	.61
	60 x 15	12	10.8 ~ 13.2	Lead Wires	Ball	1.6	130mA	16.60	CR023-ND	12.45	8.22	032686	CR221-ND	.63
	60 x 25	12	10.8 ~ 13.2	Lead Wires	Ball	2.8	230mA	23	CR024-ND	12.80	8.45	032704	CR221-ND	.63
	60 x 25	24	21.6 ~ 26.4	Lead Wires	Ball	3.6	150mA	23	CR026-ND	12.80	8.45	032710	CR221-ND	.63
	80 x 25	12	10.8 ~ 13.2	Lead Wires	Ball	3.0	250mA	38	CR030-ND	12.99	8.58	032736	CR180-ND	.87
	80 x 25	12	10.8 ~ 13.2	Lead Wires	Ball	1.8	150mA	31	CR031-ND	12.80	8.45	032738	CR180-ND	.87
	80 x 25	24	21.6 ~ 26.4	Lead Wires	Ball	3.8	160mA	38	CR032-ND	13.66	9.02	032744	CR180-ND	.87
	80 x 32	12	6 ~ 14	Lead Wires	Ball	3.4	280mA	34	CR014-ND	39.58	26.13	030615	CR180-ND	.87
	80 x 32	24	12 ~ 28	Lead Wires	Ball	3.3	140mA	34	CR017-ND	39.58	26.13	030616	CR180-ND	.87
	80 x 32	5	4.5 ~ 6.0	Lead Wires	Ball	2.3	460mA	34	CR353-ND	39.58	26.13	030829	CR180-ND	.87
	80 x 32	12	6 ~ 14	Lead Wires	Ball	6.2	380mA	45	CR354-ND	40.39	26.66	039067	CR180-ND	.87
	80 x 42	12	6 ~ 14	Lead Wires	Ball	3.0	250mA	35	CR019-ND	52.08	34.38	028933	CR180-ND	.87
	80 x 42	24	12 ~ 28	Terminal	Ball	3.0	130mA	35	CR028-ND ***NEW!***	52.84	34.88	032002	CR180-ND	.87
	80 x 42	48	24 ~ 56	Lead Wires	Ball	3.0	60mA	35	CR021-ND	52.08	34.38	028935	CR180-ND	.87
	92 x 25	12	10.8 ~ 13.2	Lead Wires	Ball	4.1	340mA	50	CR035-ND	13.66	9.02	032760	CR220-ND	.72
	92 x 25	24	21.6 ~ 26.4	Lead Wires	Ball	3.6	150mA	50	CR037-ND	13.66	9.02	032768	CR220-ND	.72
	119 x 39	12	6 ~ 14	Lead Wires	Ball	6.0	500mA	110	CR069-ND ***NEW!***	54.46	35.95	028865	CR210-ND	1.62
	119 x 39	24	12 ~ 28	Lead Wires	Ball	6.0	250mA	110	CR070-ND	54.46	35.95	028866	CR210-ND	1.62
	119 x 39	48	24 ~ 56	Lead Wires	Ball	5.8	120mA	110	CR071-ND ***NEW!***	54.46	35.95	028867	CR210-ND	1.62
	119 x 39	12	6 ~ 14	Terminal	Ball	6.0	500mA	110	CR072-ND	54.46	35.95	028868	CR210-ND	1.62
	119 x 39	24	12 ~ 28	Terminal	Ball	6.0	250mA	110	CR073-ND	54.46	35.95	028869	CR210-ND	1.62
	119 x 39	48	24 ~ 56	Terminal	Ball	5.8	120mA	110	CR074-ND	50.43	33.29	028870	CR210-ND	1.62
	119 x 39	12	6 ~ 14	Lead Wires	Ball	2.2	180mA	75	CR262-ND	39.98	33.93	030715	CR210-ND	1.62
	120 x 32	12	6 ~ 14	Lead Wires	Sleeve	2.2	180mA	60	CR043-ND	21.53	18.27	032140	CR210-ND	1.62
	120 x 32	12	6 ~ 14	Lead Wires	Ball	7.9	660mA	102	CR051-ND	40.47	26.72	032489	CR210-ND	1.62
	120 x 32	24	12 ~ 28	Lead Wires	Ball	5.5	230mA	102	CR055-ND	38.91	25.68	030572	CR210-ND	1.62
	120 x 32	48	24 ~ 56	Lead Wires	Ball	8.4	180mA	102	CR240-ND	38.91	25.68	030573	CR210-ND	1.62
	120 x 32	24	12 ~ 28	Lead Wires	Ball	10.6	440mA	118	CR351-ND	39.99	26.40	031618	CR210-ND	1.62
	120 x 38	12	6 ~ 14	Lead Wires	Ball	7.0	580mA	110	CR341-ND ***NEW!***	37.56	24.79	032525	CR210-ND	1.62
	120 x 38	24	12 ~ 28	Lead Wires	Ball	7.0	290mA	110	CR342-ND	37.56	24.79	032526	CR210-ND	1.62
	120 x 38	48	24 ~ 56	Lead Wires	Ball	7.4	150mA	110	CR343-ND ***NEW!***	37.56	24.79	032527	CR210-ND	1.62
	127 x 38	12	6 ~ 14	Terminal	Ball	15.0	1250mA	150	CR266-ND	72.36	47.76	031074	CR200-ND	2.36
	127 x 38	24	12 ~ 28	Terminal	Ball	15.0	630mA	150	CR267-ND	73.20	48.31	031075	CR200-ND	2.36
	127 x 38	48	24 ~ 56	Terminal	Ball	15.0	310mA	150	CR268-ND	73.20	48.31	031076	CR200-ND	2.36
	127 x 38	24	12 ~ 28	Lead Wires	Ball	15.0	630mA	150	CR529-ND ***NEW!***	76.55	50.52	031636	CR200-ND	2.36
	127 x 38	48	24 ~ 56	Lead Wires	Ball	15.0	310mA	150	CR526-ND ***NEW!***	76.55	50.52	031377	CR200-ND	2.36
	176 x 112	48	24 ~ 56	Lead Wires	Ball	33.6	700mA	320	CR301-ND ***NEW!***	134.87	89.02	031520	—	—
2	254 x 89	24	12 ~ 28	Lead Wires	Ball	29.0	1200mA	550	CR302-ND	133.11	87.86	031573	CR223-ND	3.74
3	172 x 51	12	6 ~ 14	Terminal	Ball	25.2	2260mA	235	CR520-ND ***NEW!***	89.69	59.20	031083	CR206-ND	2.67
	172 x 51	24	12 ~ 28	Terminal	Ball	24	1000mA	235	CR242-ND	89.99	59.40	031084	CR206-ND	2.67
	172 x 51	48	24 ~ 56	Terminal	Ball	22	460mA	235	CR243-ND	90.21	59.54	031085	CR206-ND	2.67
4	171 x 150 x 51	12	6 ~ 14	Terminal	Ball	27.1	2260mA	235	CR524-ND ***NEW!***	91.10	60.13	031089	CR196-ND	2.84
	171 x 150 x 51	12	6 ~ 14	Terminal	Ball	18	1500mA	205	CR293-ND	91.10	60.13	031092	CR196-ND	2.84
	171 x 150 x 51	24	12 ~ 28	Terminal	Ball	24	1000mA	235	CR291-ND	91.10	60.13	031090	CR196-ND	2.84
	171 x 150 x 51	48	24 ~ 56	Terminal	Ball	22	460mA	235	CR292-ND	91.29	60.25	031091	CR196-ND	2.84
Blowers														
5	80 x 32	12	6 ~ 14	Lead Wires	Ball	5	420mA	15	CR304-ND	49.38	32.60	031101	—	—
	80 x 32	24	12 ~ 28	Lead Wires	Ball	4.8	200mA	15	CR305-ND	49.38	32.60	031102	—	—
6	80 x 32	24	12 ~ 28	Lead Wires	Ball	1.4	60mA	8.7	CR528-ND ***NEW!***	50.17	33.11	031104	CR282-ND	.49
5	121 x 31	12	9 ~ 14	Lead Wires	Ball	10.8	900mA	26	CR247-ND	53.33	35.20	030619	—	—
	121 x 31	24	12 ~ 28	Lead Wires	Ball	11.5	480mA	26	CR248-ND	53.33	35.20	030621	—	—
7	160 x 50	24	12 ~ 28	Lead Wires	Ball	30	1250mA	60	CR249-ND ***NEW!***	99.50	65.67	032183	—	—
Tachometer Output DC Fans														
1	127 x 38	48	24 ~ 56	Lead Wires	Ball	15	310mA	150	CR521-ND ***NEW!***	76.55	50.52	031239	CR200-ND	2.36
	120 x 32	12	6 ~ 14	Lead Wires	Ball	7.9	660mA	102	CR339-ND	39.72	26.22	030598	CR210-ND	1.62
	120 x 32	24	12 ~ 28	Lead Wires	Ball	5.5	230mA	102	CR340-ND	39.72	26.22	030599	CR210-ND	1.62
	119 x 39	12	6 ~ 14	Lead Wires	Ball	6.0	500mA	110	CR344-ND	54.30	35.84	028885	CR210-ND	1.62
	119 x 39	24	12 ~ 28	Lead Wires	Ball	6.0	250mA	110	CR345-ND	54.30	35.84	028886	CR210-ND	1.62
3	171 x 51	24	12 ~ 28	Lead Wires	Ball	24	1000mA	235	CR525-ND ***NEW!***	92.15	60.82	031263	CR196-ND	2.84
4	171 x 150 x 51	48	24 ~ 56	Lead Wires	Ball	22	460mA	235	CR522-ND ***NEW!***	95.39	62.96	031328	CR196-ND	2.84

Note: See web site for drawing data.

DC Brushless and Tachometer Motorized Impellers

Diplomat Series

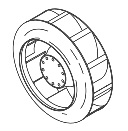

Diplomat series of backward curve impellers can be used for pressurization or evacuation of enclosures. **Applications:** • Telecommunication Equipment • Computers • Heating and Air Conditioning • Refrigeration • Heat Exchangers • Power Supplies • Applications with many electronics condensed into a small space which create pressure that resists the passage of air **Features:** • 12" Leadwires (30.48cm) • TTL Tach Output • Ball Bearings • High Airflow in high pressure environments

Dimensions - mm	Voltage Nom. (VDC)	Power (W)	Running Current (A)	RPM	CFM	Termination Wire Leads	Noise (dBA)	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Rotron Part No.
101.6 x 55.1	48	21	.380	4950	100	22 AWG	59	CR412-ND	98.65	83.71	039822
101.6 x 55.1	48	34.8	.720	6325	115	22 AWG	67	CR413-ND	71.10	60.33	039825
101.6 x 55.1	24	32	1.330	5865	115	22 AWG	68	CR380-ND	100.80	85.53	039824
133 x 91	12	30	2.500	3300	175	22 AWG	62.9	CR414-ND	115.83	98.28	039829
133 x 91	24	26	1.100	3400	175	22 AWG	62.9	CR415-ND	115.83	98.28	039830
133 x 91	48	24	.510	3500	175	22 AWG	62.9	CR416-ND	115.83	98.28	039831
133 x 91	12	45.6	2.85	3980	200	22 AWG	65.9	CR381-ND	91.38	77.54	039832
175 x 53	24	15.4	1.20	3025	250	22 AWG	67.2	CR418-ND	153.22	130.01	039842
175 x 53	48	31.2	.650	2980	250	22 AWG	67.2	CR419-ND	153.22	130.01	039843
175 x 68	12	25.3	2.10	2400	275	22 AWG	59.8	CR420-ND	153.70	130.41	039847
175 x 68	12	40.2	3.35	2800	325	22 AWG	63.5	CR421-ND	121.26	102.89	039850
175 x 68	24	25.3	1.05	2400	275	22 AWG	59.8	CR422-ND	153.70	130.41	039848
175 x 68	24	40.2	1.68	2800	325	22 AWG	63.5	CR423-ND	153.70	130.41	039851
175 x 68	48	40.2	.84	2800	325	22 AWG	63.5	CR425-ND	153.70	130.41	039852
192 x 69	12	21.6	1.92	1850	250	22 AWG	53.7	CR426-ND	167.06	141.75	039856
192 x 69	12	30	1.25	2150	300	22 AWG	57.6	CR427-ND	167.06	141.75	039859
192 x 69	48	23	.48	1850	250	22 AWG	53.7	CR429-ND	167.06	141.75	039858
227 x 72	24	63.7	2.656	2650	500	20 AWG	69.1	CR430-ND	198.25	168.21	039864
227 x 72	48	67.2	1.4	2700	500	20 AWG	69.1	CR431-ND	198.25	168.21	039865
227 x 99	24	83.5	4.200	2500	625	20 AWG	73	CR432-ND	248.47	210.83	039870
227 x 99	48	100	2.100	2400	625	20 AWG	73	CR433-ND	248.47	210.83	039871
251 x 89	24	76.8	4.200	2300	700	20 AWG	72.6	CR434-ND	195.16	165.60	039876
251 x 89	48	76.8	2.100	2200	700	20 AWG	72.6	CR435-ND	193.03	163.79	039877
280 x 125	24	115	4.800	1800	1000	20 AWG	68.6	CR436-ND	201.18	170.71	039882

AC Fans

AC Fans - Motor: Two-pole shaded pole induction motor. 100% dielectric tested at 1800VAC/1 sec./500 microamps maximum leakage.

Fig. 1

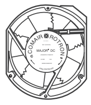

Fig. 2

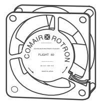

Fig. 3

Fig.	Model	Dimensions mm	Voltage	Connection Type	Bearing	Power (Watts)	Running Current (60Hz)	RPM	CFM	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
1	Major	172 x 150 x 51	115	Terminal	Ball	31	.26A	3400	231	CR134-ND ***NEW!***	77.52	51.17	MR2B3	CR196-ND	2.84
	Major	172 x 150 x 51	230	Terminal	Ball	30	.14A	3400	231	CR135-ND	80.24	52.97	MR77B3	CR196-ND	2.84
	Maltese	172 x 150 x 55	115	Terminal	Ball	41.4	.36A	3400	282	CR311-ND	99.39	65.60	MA2B3	CR196-ND	2.84
	Maltese	172 x 150 x 55	230	Terminal	Ball	41.4	.18A	3400	282	CR312-ND ***NEW!***	101.93	67.28	MA77B3	CR196-ND	2.84
2	Tarzan	176 x 112	115	Lead Wires	Ball	59	.49A	3350	330	CR259-ND	120.45	79.50	TNE2C	—	—
	Tarzan	176 x 112	230	Lead Wires	Ball	59	.25A	3350	230	CR260-ND ***NEW!***	122.28	80.71	TNE3C	—	—
3	Caravel	254 x 89	115	Lead Wires	Ball	61	.50A	1650	525	CR144-ND	92.66	61.16	CLE2L2	CR182-ND	2.12
	Caravel	254 x 89	230	Lead Wires	Ball	60	.25A	1650	525	CR527-ND ***NEW!***	94.01	62.05	CLE3L2	CR182-ND	2.12

Please Note: AC Cords not included, please refer to index – Fans/Blowers.

Fan Accessories and Cord Sets

Fig. 1

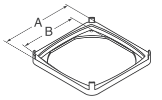

Fig. 2

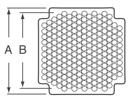

Fig. 3

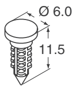

Fig. 4

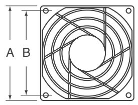

Fig. 5

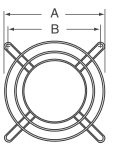

Fig. 6

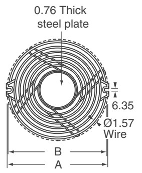

Fig.	Description	Dim. – mm A	Dim. – mm B	Fits Fan Size – mm	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Qualtek Part No.
	Fan Vibration Sleeve and Accessories								
1	Rubber Fan Sleeve, Panel Mount Hole 5.0 (mm)	43	40	40 Sq.	Q313-ND	2.55	2.34	1.96	QLM-40-20-10
	Rubber Fan Sleeve, Panel Mount Hole 5.5 (mm)	64	60	60 Sq.	Q314-ND	3.39	3.11	2.60	QLM-60-30-10
	Rubber Fan Sleeve, Panel Mount Hole 6.5 (mm)	84	80	80 Sq.	Q315-ND	3.93	3.60	3.02	QLM-80-40-10
	Rubber Fan Sleeve, Panel Mount Hole 6.5 (mm)	97	92	92 Sq.	Q316-ND	4.62	4.23	3.54	QLM-92-40-10
	Rubber Fan Sleeve, Panel Mount Hole 8.5 (mm)	125	119	119 Sq.	Q317-ND	5.36	4.90	4.11	QLM-119-50-10
2	Filter Guard EMI/RFI Shield Sheet, Metal	40	32	40 Sq.	Q328-ND	1.52	1.40	1.17	QSB-40-01
	Filter Guard EMI/RFI Shield Sheet, Metal	60	50	60 Sq.	Q329-ND	1.69	1.55	1.30	QSB-60-01
	Filter Guard EMI/RFI Shield Sheet, Metal	80	71.5	80 Sq.	Q330-ND	2.03	1.86	1.56	QSB-80-01
	Filter Guard EMI/RFI Shield Sheet, Metal	92	82.5	92 Sq.	Q331-ND	2.36	2.16	1.81	QSB-92-01
	Filter Guard EMI/RFI Shield Sheet, Metal	119	105	119 Sq.	Q332-ND	3.38	3.10	2.60	QSB-119-01
—	Filter Media	40	32	40 Sq.	Q323-ND	.50	.46	.39	QF-40-01
	Filter Media	60	50	60 Sq.	Q324-ND	.57	.52	.44	QF-60-01
	Filter Media	80	71.5	80 Sq.	Q325-ND	.66	.61	.51	QF-80-01
	Filter Media	92	82.5	92 Sq.	Q326-ND	.69	.64	.53	QF-92-01
	Filter Media	119	105	119 Sq.	Q327-ND	.82	.75	.63	QF-119-01
3	Lamella Rivet	—	—	—	Q333-ND	.24	.23	.19	QN-36-110

Fig.	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) Thick	Fits Fan Size – mm	Center Dim. – mm	No. of Rings	Material	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Qualtek Part No.
					Finger Guards							
4	46	32	7.5	40 Sq.	18 solid	2	Plastic	Q318-ND	1.92	1.76	1.47	QSG-40-02
	66	50	8.5	60 Sq.	27 solid	2	Plastic	Q319-ND	2.36	2.17	1.81	QSG-60-02
	89	71.5	8.5	80 Sq.	30 solid	2	Plastic	Q320-ND	2.55	2.34	1.96	QSG-80-02
	101	82.5	8.5	92 Sq.	30 solid	3	Plastic	Q321-ND	1.64	1.50	1.26	QSG-92-02
	128	105	9.0	119 Sq.	42 solid	4	Plastic	Q322-ND	2.20	2.01	1.69	QSG-119-02
5	109.47	104.78	4.83	120 Sq.	57 open	3	Metal	CR178-ND	1.16	1.07	.89	08146
	76.96	71.37	3.89	80 Sq.	50 open	3	Metal	CR180-ND	.87	.80	.67	08153
	209.55	173.99	8.38	254 Dia.	102 open	5	Metal	CR182-ND	2.12	1.95	1.63	08154
6	158.75	161.92	6.10	150 Dia.	74 solid	6	Metal	CR206-ND	2.67	2.45	2.05	08152
	158.75	161.92	6.10	171.5 Dia.	74 solid	5 3/4	Metal	CR196-ND	2.84	2.60	2.18	08151-01

(Continued)

Fan Accessories and Cord Sets *(Cont.)*

Fig. 7

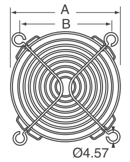

Fig. 8

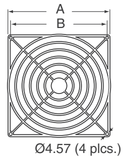

Fig. 9

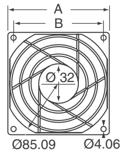

Fig. 10

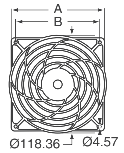

Fig. 11

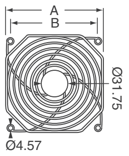

Fig. 12

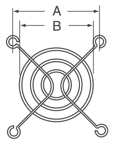

Fig. 13

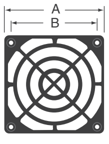

Fig. 14

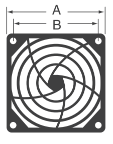

Fig. 15

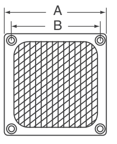

Fig. 16

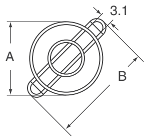

Fig. 17

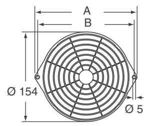

Fig. 18

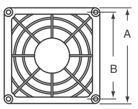

Fig. 19

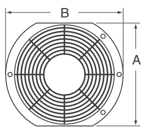

Fig. 20

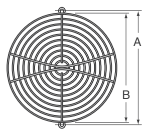

Fig. 21

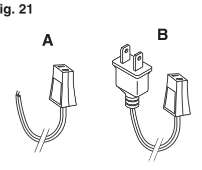

Fig. 22

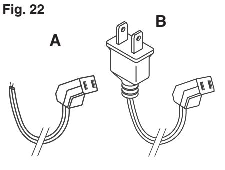

Fig. 23

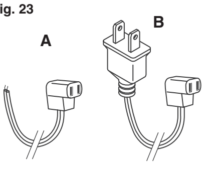

Fig. 24

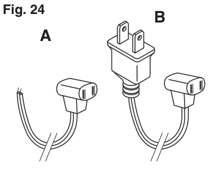

Fig.	Dimensions (mm)			Fits Fan Size – mm	Center Dim. – mm	No. of Rings	Material	Digi-Key Part No.	Price Each			Qualtek Part No.
	A	B	Thick						1	10	25	
7	124.46	113.28	5.92	127 Dia.	14 open	9	Metal	CR200-ND	2.36	2.17	1.82	08150
	115.57	104.78	3.75	120 Dia.	14.2 open	8	Metal	Q342-ND	.92	.85	.71	08129
	115.57	104.78	5.66	120 Dia.	14.2 open	8	Metal	Q357-ND	2.19	2.01	1.68	08130
	76.2	71.37	4.95	80 Dia.	14.2 open	5	Metal	Q358-ND	.77	.71	.59	08132
8	115.06	104.65	6.60	120 Sq.	25.4 solid	6	Plastic	CR280-ND	.87	.80	.67	09120-G
9	115.06	104.65	2.54	120 Sq.	32 solid	5	Plastic	CR315-ND	.87	.80	.67	09122-G
10	115.06	104.65	6.60	120 Sq.	45 solid	5	Plastic	CR281-ND	.99	.91	.76	09121-G
11	117.35	104.78	5.21	120 Sq.	33 solid	7	Metal	CR210-ND	1.62	1.49	1.25	08141
12	89.41	82.42	4.95	92 Sq.	14 open	6	Metal	CR220-ND	.72	.66	.56	08174
	53.10	50.04	4.95	60 Sq.	14 open	4	Metal	CR221-ND	.63	.59	.49	08147
	222.25	173.99	6.35	254 Dia.	76.2 solid	9	Metal	CR223-ND	3.74	3.43	2.87	08127
	115.6	104.8	5.66	120 Dia.	17.5 open	8	Metal	CR224-ND	.85	.78	.66	08170
	76.20	71.4	4.95	80 Dia.	17.4 open	5	Metal	CR229-ND	.66	.61	.51	08172
	32.00	29.21	4.80	40 Dia.	15.875 open	2	Metal	CR230-ND	.61	.57	.47	08149
	24.00	21.8	4.80	30 Sq.	9 open	2	Metal	CR377-ND	.72	.66	.56	08346
	29.00	27.00	4.00	35 Sq.	14.2 open	2	Metal	CR378-ND	.74	.68	.57	08347
	41.06	40.00	4.80	50 Sq.	14.2 open	3	Metal	CR379-ND	.96	.89	.74	08248
	42.00	41.00	4.80	52 Sq.	14.2 open	3	Metal	CR388-ND	.66	.61	.51	08148
13	39.88	32.00	4.83	40 Sq.	12 open	3	Plastic	CR285-ND	.40	.37	.31	09150-G
	59.94	50.04	6.35	60 Sq.	5 solid	3	Plastic	CR225-ND	.48	.44	.37	09250-G
14	80.01	71.37	6.35	80 Sq.	15 solid	3	Plastic	CR226-ND	.65	.60	.50	09325-G
	79.76	71.37	3.05	80 Sq.	32 solid	3	Plastic	CR282-ND	.49	.46	.38	09080-G
	91.95	82.55	6.35	92 Sq.	31.5 solid	4	Plastic	CR227-ND	.71	.65	.54	09362-G
	118.11	104.65	7.11	120 Sq.	25 solid	6	Plastic	CR228-ND	.97	.89	.75	09450-G
16	24.2	34.2	3.0	25 Sq.	104 open	2	Metal	CR181-ND	.50	.46	.39	08245
18	60.0	50.0	7.0	60 Sq.	21.0 solid	3	Plastic	CR190-ND	.78	.72	.61	09252-G
19	151	172	7.0	151 Sq.	50 solid	8	Plastic	CR191-ND	2.33	2.14	1.79	09651-G
20	162.05	154.43	6.45	150 Dia.	16.31 open	10	Metal	Q341-ND	1.88	1.73	1.45	08126

Fig.	Description	Dimensions (mm)		Fits Fan Size – mm	Digi-Key Part No.	Price Each			Qualtek Part No.
		A	B			1	10	25	
Filters and Filter Accessories									
13	Filter Guard Assembly (30 PPI)	39.88	32.00	40 Sq.	CR286-ND	1.63	1.49	1.25	09150-F/30
13	Filter Guard Assembly (45 PPI)	39.88	32.00	40 Sq.	CR287-ND	1.63	1.49	1.25	09150-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	40 Sq.	CR324-ND	1.36	1.25	1.04	09150-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	40 Sq.	CR325-ND	1.36	1.25	1.04	09150-M/45
13	Filter Guard Assembly (30 PPI)	59.94	50.04	60 Sq.	CR283-ND	1.75	1.60	1.34	09250-F/30
13	Filter Guard Assembly (45 PPI)	59.94	50.04	60 Sq.	CR284-ND	1.75	1.60	1.34	09250-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	60 Sq.	CR326-ND	1.42	1.31	1.09	09250-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	60 Sq.	CR327-ND	1.42	1.31	1.09	09250-M/45
14	Filter Guard Assembly (30 PPI)	83.57	71.37	80 Sq.	CR212-ND	1.85	1.69	1.42	09325-F/30
14	Filter Guard Assembly (45 PPI)	83.57	71.37	80 Sq.	CR214-ND	1.85	1.69	1.42	09325-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	80 Sq.	CR213-ND	1.55	1.42	1.19	09325-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	80 Sq.	CR215-ND	1.55	1.42	1.19	09325-M/45
14	Filter Guard Assembly (30 PPI)	96.52	82.55	92 Sq.	CR328-ND	2.12	1.95	1.63	09362-F/30
14	Filter Guard Assembly (45 PPI)	96.52	82.55	92 Sq.	CR329-ND	2.12	1.95	1.63	09362-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	92 Sq.	CR330-ND	1.64	1.51	1.26	09362-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	92 Sq.	CR331-ND	1.64	1.51	1.26	09362-M/45
14	Filter Guard Assembly (30 PPI)	123.7	104.9	119 & 120 Square	CR216-ND	2.21	2.03	1.70	09450-F/30
14	Filter Guard Assembly (45 PPI)	123.7	104.9		CR218-ND	2.21	2.03	1.70	09450-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—		CR217-ND	1.99	1.82	1.53	09450-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—		CR219-ND	1.99	1.82	1.53	09450-M/45
15	Filter/Screen, Stainless Steel (Washable)	64.26	49.6	60 Sq.	CR373-ND	3.10	2.84	2.38	06250-SS
	Filter/Screen, Aluminum (Washable)	83.82	71.37	80 Sq.	CR233-ND	1.88	1.72	1.44	06325-M
	Filter/Screen, Stainless Steel (Washable)	83.82	71.37	80 Sq.	CR374-ND	3.52	3.23	2.70	06325-SS
	Filter/Screen, Aluminum (Washable)	91.95	82.42	92 Sq.	CR234-ND	2.02	1.85	1.55	06362-M
	Filter/Screen, Stainless Steel (Washable)	91.95	82.42	92 Sq.	CR375-ND	3.86	3.54	2.96	06362-SS
	Filter/Screen, Aluminum (Washable)	118.87	104.77	120 Sq.	CR235-ND	2.40	2.20	1.84	06450-M
	Filter/Screen, Stainless Steel (Washable)	118.87	104.77	120 Sq.	CR376-ND	4.93	4.52	3.78	06450-SS
	Filter/Screen, Anodized-Black (Washable)	83.82	71.37	80 Sq.	Q343-ND	1.88	1.72	1.44	06325-B
	Filter/Screen, Anodized-Black (Washable)	118.5	104.77	120 Sq.	Q344-ND	2.40	2.20	1.84	06450-B
17	Finger Guard Assembly, Plastic (30 PPI)	176.0	161.5	150 Sq.	CR183-ND	2.99	2.74	2.30	09650-F/30
	Finger Guard Assembly, Plastic (45 PPI)	176.0	161.5	150 Sq.	CR185-ND	2.99	2.74	2.30	09650-F/45
	Finger Guard Assembly, Plastic (100 PPI)	176.0	161.5	150 Sq.	CR189-ND	3.25	2.98	2.50	09650-F/100
Plug Cord Sets – SPT-1 (18/2)									
21A	Straight On Plug and Cord – 24” (60.96cm)	Fits all Diplomat, Falcon, Maltese, Major, Patriot, Tarzan, Caravel, and Biscuit model fans with Terminal Connections			CR197-ND	1.37	1.25	1.05	07100-24
	Straight On Plug and Cord – 36” (91.44cm)				CR198-ND	1.67	1.54	1.29	07100-36
	Straight On Plug and Cord – 50” (127.00cm)				CR199-ND	2.06	1.89	1.58	07100-50
21B	Straight On Plug and Cord – 24” (60.96cm)				CR361-ND	2.00	1.83	1.53	07100-SP024
	Straight On Plug and Cord – 36” (91.44cm)				CR362-ND	2.27	2.08	1.74	07100-SP036
	Straight On Plug and Cord – 72” (182.88cm)				CR363-ND	3.23	2.96	2.48	07100-SP072
22A	45° Angle Plug and Cord – 24” (60.96cm)	Fits all AC Fans with Terminal Connection Type			CR318-ND	1.37	1.25	1.05	07145-24
	45° Angle Plug and Cord – 36” (91.44cm)				CR319-ND	1.67	1.54	1.29	07145-36
22B	45° Angle Plug and Cord – 36” (91.44cm)				CR365-ND	2.27	2.08	1.74	07145-SP036
	45° Angle Plug and Cord – 72” (182.88cm)				CR366-ND	3.23	2.96	2.48	07145-SP072
23A	90° Angle Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR320-ND	1.10	1.02	.85	07190-12
	90° Angle Plug and Cord – 24” (60.96cm)				CR321-ND	1.37	1.25	1.05	07190-24
	90° Angle Plug and Cord – 36” (91.44cm)				CR322-ND	1.67	1.54	1.29	07190-36
23B	90° Angle Plug and Cord – 24” (60.96cm)				CR367-ND	2.00	1.83	1.53	07190-SP024
	90° Angle Plug and Cord – 36” (91.44cm)				CR368-ND	2.27	2.08	1.74	07190-SP036
	90° Angle Plug and Cord – 72” (182.88cm)				CR369-ND	3.23	2.96	2.48	07190-SP072
24A	90° Angle T-Style Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR323-ND	1.10	1.02	.85	07199-12
	90° Angle T-Style Plug and Cord – 24” (60.96cm)				CR170-ND	1.37	1.25	1.05	07199-24
	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR175-ND	1.67	1.54	1.29	07199-36
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR337-ND	2.67	2.45	2.05	07199-72
	90° Angle T-Style Plug and Cord – 96” (243.84cm)				CR338-ND	3.34	3.06	2.56	07199-96
24B	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR371-ND	2.27	2.08	1.74	07199-SP036
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR372-ND	3.23	2.96	2.48	07199-SP072

AC Axial Fans

NMB-MAT AC Axial Fans suit a wide range of applications. They force air out in a “funnel” type pattern, and are ideal when cooling a specific area such as a power supply that is surrounded by numerous components with minimum ventilation available. Some models available with IP54 and oil proof protection in select sizes (AMO/SMO suffix).

Size (mm)	Bearing	Voltage	Input Power (W)	Air Flow (CFM)	Noise (dB)	Leads	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guard	Price Each
			60 (Hz)	60 (Hz)				1	10	25			
60x30	Ball	115	4.0	9.1	29	22AWG, 300mm Leads	P12871-ND	16.33	14.95	12.51	2412PS-12W-B30-A00	CR221-ND	.63
80x25	Ball	115	5.0	19.7	33	22AWG, 300mm Leads	P12872-ND	17.11	15.66	13.11	3110PS-12W-B30-A00	CR229-ND	.66
	Ball	115	6.5	24.0	31	22AWG, 300mm	P13592-ND ***NEW!***	17.81	16.30	13.65	3110MS-12W-B30-A00	CR229-ND	.66
	Ball	230	6.5	24.0	31	22AWG, 300mm	P13593-ND ***NEW!***	17.81	16.30	13.65	3110MS-23W-B30-A00	CR229-ND	.66
	Ball	115	6.5	24.0	31	22AWG, 300mm	P13594-ND ***NEW!***	32.27	29.52	24.72	3110MS-12W-B30-AM0	CR229-ND	.66
	Ball	230	6.5	24.0	31	22AWG, 300mm	P13595-ND ***NEW!***	32.27	29.52	24.72	3110MS-23W-B30-AM0	CR229-ND	.66
80x38	Ball	115	4.0	19.4	25	22AWG, 300mm Leads	P12993-ND	15.98	14.62	12.24	3115PS-12W-B10-A00	CR229-ND	.66
	Ball	230	6.5	20.0	35	22AWG, 300mm Leads	P12879-ND	13.18	12.36	10.10	3115FS-23W-B10-A00	CR229-ND	.66
	Ball	115	6.0	22.0	36	.110 Terminal	P12873-ND	15.98	14.62	12.24	3115FS-12T-B10-A00	CR229-ND	.66
	Ball	230	6.0	26.0	34	.110 Terminal	P12995-ND	13.58	12.74	10.41	3115PS-23T-B20-A00	CR229-ND	.66
	Ball	230	6.0	26.0	34	22AWG, 300mm Leads	P12998-ND	15.98	14.62	12.24	3115PS-23W-B20-A00	CR229-ND	.66
	Ball	115	7.0	32.0	38	.110 Terminal	P12881-ND	15.98	14.62	12.24	3115PS-12T-B30-A00	CR229-ND	.66
	Ball	115	8.5	32.0	44	.110 Terminal	P12874-ND	15.98	14.62	12.24	3115FS-12T-B30-A00	CR229-ND	.66
	Ball	115	8.5	32.0	44	22AWG, 300mm Leads	P12878-ND	15.98	14.62	12.24	3115FS-12W-B30-A00	CR229-ND	.66
	Ball	115	7.0	32.0	38	22AWG, 300mm Leads	P12882-ND	15.98	14.62	12.24	3115PS-12W-B30-A00	CR229-ND	.66
	Ball	230	8.0	32.0	38	.110 Terminal	P12996-ND	15.98	14.62	12.24	3115PS-23T-B30-A00	CR229-ND	.66
	Ball	230	8.0	32.0	38	22AWG, 300mm Leads	P12999-ND	15.98	14.62	12.24	3115PS-23W-B30-A00	CR229-ND	.66
	Ball	230	8.0	33.0	44	.110 Terminal	P12876-ND	15.98	14.62	12.24	3115FS-23T-B30-A00	CR229-ND	.66
	Ball	230	8.0	33.0	44	22AWG, 300mm Leads	P12880-ND	15.98	14.62	12.24	3115FS-23W-B30-A00	CR229-ND	.66
92x25	Ball	115	6.0	20.0	25	.110 Terminal	P13100-ND	17.51	16.02	13.41	3610PS-12T-B10-A00	CR220-ND	.72
	Ball	115	6.0	20.0	25	22AWG, 300mm Leads	P13102-ND	17.51	16.02	13.41	3610PS-12W-B10-A00	CR220-ND	.72
	Ball	230	6.0	20.0	26	.110 Terminal	P13103-ND	17.51	16.02	13.41	3610PS-23T-B10-A00	CR220-ND	.72
	Ball	115	6.0	28.0	35	.110 Terminal	P13101-ND	17.51	16.02	13.41	3610PS-12T-B20-A00	CR220-ND	.72
	Ball	230	6.0	28.0	35	.110 Terminal	P13104-ND	17.51	16.02	13.41	3610PS-23T-B20-A00	CR220-ND	.72
	Ball	115	9.0	34.5	38	22AWG, 300mm Leads	P12884-ND	17.51	16.02	13.41	3610PS-12W-B30-A00	CR220-ND	.72
	Ball	230	10.0	34.5	39	22AWG, 300mm Leads	P12886-ND	17.51	16.02	13.41	3610PS-23W-B30-A00	CR220-ND	.72
	Ball	115	9.0	34.5	38	.110 Terminal	P12883-ND	17.51	16.02	13.41	3610PS-12T-B30-A00	CR220-ND	.72
	Ball	230	10.0	34.5	39	.110 Terminal	P12885-ND	17.51	16.02	13.41	3610PS-23T-B30-A00	CR220-ND	.72
119x25	Ball	115	7.0	53.0	30	.110 Terminal	P12887-ND	16.22	14.84	12.42	4710PS-12T-B20-A00	CR224-ND	.85
	Ball	230	8.0	53.0	30	.110 Terminal	P12889-ND	16.22	14.84	12.42	4710PS-23T-B20-A00	CR224-ND	.85
	Ball	115	11.0	70.6	38	.110 Terminal	P12888-ND	16.22	14.84	12.42	4710PS-12T-B30-A00	CR224-ND	.85
	Ball	230	11.0	70.6	38	.110 Terminal	P12890-ND	16.22	14.84	12.42	4710PS-23T-B30-A00	CR224-ND	.85
119x38	Ball	115	5.5	49.4	28	.110 Terminal	P12891-ND	15.58	14.26	11.94	4715MS-12T-B10-A00	CR224-ND	.85
	Ball	230	7.5	67.0	30	.110 Terminal	P13110-ND	15.58	14.26	11.94	4715MS-23T-B20-A00	CR224-ND	.85
	Ball	115	7.0	67.0	30	.110 Terminal	P12892-ND	15.58	14.26	11.94	4715MS-12T-B20-A00	CR224-ND	.85
	Ball	115	10.0	70.0	33	.110 Terminal	P12895-ND	15.58	14.26	11.94	4715FS-12T-B10-D00	CR224-ND	.85
	Ball	230	9.0	70.0	70	.110 Terminal	P12897-ND	13.48	12.64	10.33	4715FS-23T-B10-D00	CR224-ND	.85
	Ball	230	11.0	88.2	37	.110 Terminal	P13111-ND	15.58	14.26	11.94	4715MS-23T-B30-A00	CR224-ND	.85
	Ball	115	14.5	102	41	.110 Terminal	P12893-ND	15.58	14.26	11.94	4715MS-12T-B50-A00	CR224-ND	.85
	Ball	115	13.0	95.0	39	.110 Terminal	P13109-ND	15.58	14.26	11.94	4715MS-12T-B40-A00	CR224-ND	.85
	Ball	230	13.0	95.0	39	.110 Terminal	P13112-ND	15.58	14.26	11.94	4715MS-23T-B40-A00	CR224-ND	.85
	Ball	115	14.0	100.0	42	.110 Terminal	P13107-ND	15.58	14.26	11.94	4715FS-12T-B40-D00	CR224-ND	.85
	Ball	230	14.0	100.0	100	.110 Terminal	P13108-ND	13.48	12.64	10.33	4715FS-23T-B40-D00	CR224-ND	.85
	Ball	230	14.0	102.0	41	.110 Terminal	P12894-ND	15.58	14.26	11.94	4715MS-23T-B50-A00	CR224-ND	.85
	Ball	115	14.4	110	45	.110 Terminal	P12896-ND	15.58	14.26	11.94	4715FS-12T-B50-D00	CR224-ND	.85
	Ball	230	14.0	110	110	.110 Terminal	P12898-ND	15.58	14.26	11.94	4715FS-23T-B50-D00	CR224-ND	.85
	Ball	115	15.5	105.9	44	.110 Terminal	P13596-ND ***NEW!***	16.33	14.95	12.51	4715HS-12T-B5A-A00	CR224-ND	.85
	Ball	230	15.5	105.9	44	.110 Terminal	P13597-ND ***NEW!***	16.33	14.95	12.51	4715HS-23T-B5A-A00	CR224-ND	.85
	Ball	115	15.5	105.9	44	.110 Terminal	P13598-ND ***NEW!***	30.79	28.17	23.58	4715HS-12T-B50-AM0	CR224-ND	.85
	Ball	230	15.5	105.9	44	.110 Terminal	P13599-ND ***NEW!***	30.79	28.17	23.58	4715HS-23T-B50-AM0	CR224-ND	.85
	Ball	115	17	116.5	50	.110 Terminal	P13600-ND ***NEW!***	25.38	23.22	19.44	4715TS-12T-B5A-A00	CR224-ND	.85
	Ball	230	17	116.5	50	.110 Terminal	P13601-ND ***NEW!***	25.38	23.22	19.44	4715TS-23T-B5A-A00	CR224-ND	.85
	Ball	115	17	116.5	50	.110 Terminal	P13602-ND ***NEW!***	41.83	38.27	32.04	4715TS-12T-B50-AM0	CR224-ND	.85
	Ball	230	17	116.5	50	.110 Terminal	P13603-ND ***NEW!***	41.83	38.27	32.04	4715TS-23T-B50-AM0	CR224-ND	.85
150x172	Ball	115	38	222.4	53	.110 Terminal	P13608-ND ***NEW!***	82.60	75.58	63.27	5915PC-12T-B30-SM0	CR191-ND	2.33
	Ball	230	40	222.4	53	.110 Terminal	P13609-ND ***NEW!***	82.60	75.58	63.27	5915PC-23T-B30-SM0	CR191-ND	2.33
150x172x38	Ball	115	32.0	212.0	56	.110 Terminal	P12899-ND	49.70	45.48	38.07	5915PC-12T-B30-A00	CR191-ND	2.33
	Ball	230	35.0	212.0	56	.110 Terminal	P12900-ND	49.70	45.48	38.07	5915PC-23T-B30-A00	CR191-ND	2.33
	Ball	230	18.0	102.3	38	.110 Terminal	P13113-ND	49.70	45.48	38.07	5915PC-23T-B10-A00	CR191-ND	2.33
	Ball	115	32	211.8	56	.110 Terminal	P13604-ND ***NEW!***	63.80	58.38	48.87	5915PC-12T-B30-AM0	CR191-ND	2.33
	Ball	230	35	211.8	56	.110 Terminal	P13605-ND ***NEW!***	63.80	58.38	48.87	5915PC-23T-B30-AM0	CR191-ND	2.33
	Ball	115	38	222.4	53	.110 Terminal	P13606-ND ***NEW!***	68.50	62.68	52.47	5915PC-12T-B30-S00	CR191-ND	2.33
	Ball	230	40	222.4	53	.110 Terminal	P13607-ND ***NEW!***	68.50	62.68	52.47	5915PC-23T-B30-S00	CR191-ND	2.33

Please Note: AC Cords not included, please refer to index – Fans/Blowers.

DC Fans FBL Series

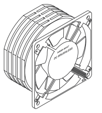

Features:

- Louvered design increases air flow and decreases turbulent noise at standard rating conditions
- Hydro-Wave Bearing Technology

Specifications:

- Operating Temperature: -10°C ~ 70°C (65%RH)
- Plastic Rating: All Panaflo fans are manufactured with a UL94V-0 plastic (flammability)
- Noise Data: The noise data is measured at 1 meter from the air intake side of the fan suspended in a semi-anechoic chamber (background noise 13dB-A maximum)
- Life Expectancy: 50,000 hours (40°C, 65%RH)

Operating Voltage (VDC)		Dim. (mm)	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mmH2O)	Max. Noise (dB-A)	Lead Length (mm)	Digi-Key Part No.	Price Each					NMB Technologies Part No.	Finger Guards	Price Each
Nom.	Range	Sq.xThk.							1	10	25	50	100			
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P10893-ND◆	7.33	6.88	5.62	5.15	4.53	FBL06A12U1A	CR221-ND◆	.63
12	7-13.8	60 x 25.5	2.64	14.83	4.1	36.0	315	P10892-ND◆	7.33	6.88	5.62	5.15	4.53	FBL06A12H1A	CR221-ND◆	.63
12	7-13.8	60 x 25.5	2.04	13.06	3.0	32.0	315	P10891-ND	7.33	6.88	5.62	5.15	4.53	FBL06A12M1A	CR221-ND◆	.63
12	7-13.8	60 x 25.5	1.68	14.83	2.1	29.0	315	P10890-ND◆	8.62	7.90	6.61	6.06	5.33	FBL06A12L1A	CR221-ND◆	.63
24	14-27.6	60 x 25.5	3.24	15.89	4.7	42.0	315	P11017-ND	8.23	7.53	6.30	5.78	5.08	FBL06A24U1A	CR221-ND◆	.63
12	7-13.8	80 x 25.5	4.32	35.31	4.0	42.0	300	P10897-ND	8.62	7.90	6.61	6.06	5.33	FBL08A12U1A	CR180-ND◆	.87
12	7-13.8	80 x 25.5	3.00	30.01	2.9	39.0	300	P10896-ND	7.33	6.88	5.62	5.15	4.53	FBL08A12H1A	CR180-ND◆	.87
12	7-13.8	80 x 25.5	2.04	24.71	2.0	33.0	300	P10895-ND	7.33	6.88	5.62	5.15	4.53	FBL08A12M1A	CR180-ND◆	.87
12	7-13.5	92 x 25.5	3.48	45.89	3.3	40.0	295	P10900-ND	7.33	6.88	5.62	5.15	4.53	FBL09A12H1A	CR220-ND◆	.72
12	7-13.5	92 x 25.5	3.48	45.9	3.3	40.0	295	P11083-ND	7.83	7.34	6.00	5.50	4.84	FBL09A12H1BX	CR220-ND◆	.72
12	7-13.8	92 x 25.5	2.40	35.30	2.3	36.0	295	P10899-ND	7.33	6.88	5.62	5.15	4.53	FBL09A12M1A	CR220-ND◆	.72
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11025-ND	7.33	6.88	5.62	5.15	4.53	FBL09A24U1A	CR220-ND◆	.72
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11092-ND	7.83	7.34	6.00	5.50	4.84	FBL09A24U1BX	CR220-ND◆	.72
24	14-27.6	92 x 25.5	2.40	35.30	2.3	36.0	295	P11023-ND	7.33	6.88	5.62	5.15	4.53	FBL09A24M1A	CR220-ND◆	.72
12	7-13.8	120 x 38	7.20	81.19	5.2	46.0	280	P10904-ND	22.57	21.16	17.29	15.85	13.93	FBL12G12H1A	CR210-ND◆	1.62
24	14-27.6	120 x 38	7.20	81.19	5.2	46.0	280	P11028-ND	22.57	21.16	17.29	15.85	13.93	FBL12G24H1A	CR210-ND◆	1.62
24	14-27.6	120 x 38	5.40	67.07	3.6	41.0	280	P11027-ND	22.32	21.16	17.29	15.85	13.93	FBL12G24M1A	CR210-ND◆	1.62
24	14-27.6	120 x 38	2.88	52.95	2.3	35.0	280	P11026-ND	22.57	21.16	17.29	15.85	13.93	FBL12G24L1A	CR210-ND◆	1.62

◆ ***RoHS Compliant*** **Manufacturer Part Number Ending Code: A** - Standard; **BX** - 2 PPR Speed Sensor (TAC Output)

FCC-000-ND	Lead Wire Assembly, 3 Conductors	**$1.92/1; $17.30/10**
P11031-ND	Lead Wire Assembly, 2 Conductors	**$.59/1; $11.25/25**

Please Note: Custom Fan Cable Assemblies available upon request.

DC Axial Fans

Rib Mount Type:

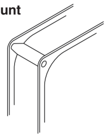

Flange Mount Type:

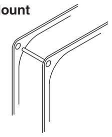

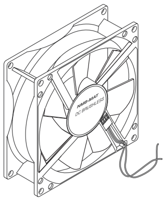

NMB-MAT combines the Panasonic Panaflo and NMB fan product lines.
NMB-MAT offers a comprehensive line of cooling products, including AC and DC axial fans and blowers ranging from 25mm to 172mm in diameter. NMB-MAT leverages its expertise to develop and produce superior cooling fans and blowers.

Specifications: • Operating Temperature: -10°C ~ 60/70°C by model (65%RH)

Features: • Aerodynamic blade and venturi design • They are ideal when cooling a specific area that is surrounded by numerous components with minimum ventilation available.

Please Note: Custom Fan Cable Assemblies available upon request.

Dimensions mm	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guards	Price Each
	Nom.	Range										1	10	25			
25x10	5	4.5 ~ 5.5	0.625	2.0	.20	25.0	200	Ball	—	Rib	P12806-ND	13.65	12.50	10.46	1004KL-01W-B50-B00	CR181-ND	.50
	12	8 ~ 13.8	0.72	2.0	.20	25.0	200	Ball	—	Rib	P12807-ND	13.65	12.50	10.46	1004KL-04W-B50-B00	CR181-ND	.50
	12	8 ~ 13.8	0.72	2.0	.20	25.0	200	Ball	Lock Rotor	Rib	P13383-ND	13.35	12.22	10.23	1004KL-04W-B59-B00	CR181-ND	.50
30x10	5	4.5 ~ 5.5	0.90	3.8	.216	27.0	200	Ball	—	Rib	P12808-ND	13.94	12.75	10.68	1204KL-01W-B50-B00	CR377-ND	.72
	5	4.5 ~ 5.5	0.90	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13384-ND	13.87	12.69	10.62	1204KL-01W-B59-B00	CR377-ND	.72
	12	6 ~ 13.8	0.96	3.8	.216	27.0	200	Ball	—	Rib	P12809-ND	13.94	12.75	10.68	1204KL-04W-B50-B00	CR377-ND	.72
	12	6 ~ 13.8	0.96	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13385-ND	14.52	13.29	11.13	1204KL-04W-B59-B00	CR377-ND	.72
35x10	5	4.5 ~ 5.5	1.05	5.6	.16	27.0	200	Ball	—	Rib	P12810-ND	13.94	12.75	10.68	1404KL-01W-B50-B00	CR378-ND	.74
	12	8 ~ 13.8	0.96	5.6	.16	27.0	200	Ball	—	Rib	P12811-ND	13.94	12.75	10.68	1404KL-04W-B50-B00	CR378-ND	.74
	12	8 ~ 13.8	0.96	5.6	.16	27.0	200	Ball	Lock Rotor	Rib	P13387-ND	14.52	13.29	11.13	1404KL-04W-B59-B00	CR378-ND	.74
40x10	5	4.5 ~ 5.5	0.775	6.0	.184	29.0	200	Ball	—	Rib	P12812-ND	11.12	10.17	8.52	1604KL-01W-B50-B00	CR230-ND	.61
	5	4.5 ~ 5.5	0.775	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13388-ND	11.70	10.71	8.97	1604KL-01W-B59-B00	CR230-ND	.61
	12	10.2 ~ 13.8	0.876	5.3	.136	25.0	200	Ball	—	Rib	P12813-ND	11.12	10.17	8.52	1604KL-04W-B40-B00	CR230-ND	.61
	12	10.2 ~ 13.8	0.876	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13389-ND	11.70	10.71	8.97	1604KL-04W-B59-B00	CR230-ND	.61
40x15	5	4.5 ~ 5.5	0.600	6.0	.145	28.0	200	Ball	—	Rib	P12814-ND	11.12	10.17	8.52	1606KL-01W-B30-L00	CR230-ND	.61
	5	4.5 ~ 5.5	1.20	8.12	.252	34.0	200	Ball	—	Rib	P12815-ND	11.12	10.17	8.52	1606KL-01W-B50-L00	CR230-ND	.61
	5	4.5 ~ 5.5	1.20	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13390-ND	11.70	10.71	8.97	1606KL-01W-B59-L00	CR230-ND	.61
	12	10.2 ~ 13.8	0.804	6.0	.145	28.0	200	Ball	—	Rib	P12816-ND	11.12	10.17	8.52	1606KL-04W-B30-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.02	8.12	.252	34.0	200	Ball	—	Rib	P12817-ND	11.12	10.17	8.52	1606KL-04W-B50-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.02	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13391-ND	11.70	10.71	8.97	1606KL-04W-B59-L00	CR230-ND	.61
	24	22.0 ~ 25.2	1.488	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13392-ND	11.70	10.71	8.97	1606KL-05W-B59-L00	CR230-ND	.61
40x20	5	4.5 ~ 5.5	0.35	4.9	.08	20.0	200	Ball	—	Rib	P12818-ND	11.44	10.48	8.77	1608KL-01W-B10-L00	CR230-ND	.61
	5	4.5 ~ 5.5	0.60	6.0	.12	22.5	200	Ball	—	Rib	P13576-ND	11.44	10.48	8.77	1608KL-01W-B20-L00	CR230-ND	.61
	5	4.5 ~ 5.5	1.35	8.4	.21	29.0	200	Ball	—	Rib	P13577-ND	11.44	10.48	8.77	1608KL-01W-B40-L00	CR230-ND	.61
	5	4.5 ~ 5.5	1.90	9.5	.28	33.0	200	Ball	—	Rib	P12819-ND	11.44	10.48	8.77	1608KL-01W-B50-L00	CR230-ND	.61
	5	4.5 ~ 5.5	1.90	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13393-ND	12.03	11.01	9.22	1608KL-01W-B59-L00	CR230-ND	.61
	12	10.2 ~ 13.8	0.48	4.9	.08	20.0	200	Ball	—	Rib	P12820-ND	11.44	10.48	8.77	1608KL-04W-B10-L00	CR230-ND	.61
	12	10.2 ~ 13.8	0.72	6.0	.12	22.5	200	Ball	—	Rib	P13578-ND	11.44	10.48	8.77	1608KL-04W-B20-L00	CR230-ND	.61
	12	10.2 ~ 13.8	0.72	6.0	.12	22.5	200	Ball	Lock Rotor	Rib	P13579-ND	12.03	11.01	9.22	1608KL-04W-B29-L00	CR230-ND	.61
	12	10.2 ~ 13.8	0.84	7.4	.17	25.5	200	Ball	—	Rib	P13580-ND	11.44	10.48	8.77	1608KL-04W-B30-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.08	8.4	.21	29.0	200	Ball	—	Rib	P13581-ND	11.44	10.48	8.77	1608KL-04W-B40-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.08	8.4	.21	29.0	200	Ball	Lock Rotor	Rib	P13582-ND	12.03	11.01	9.22	1608KL-04W-B49-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.32	9.5	.28	33.0	200	Ball	—	Rib	P12821-ND	11.44	10.48	8.77	1608KL-04W-B50-L00	CR230-ND	.61
	12	10.2 ~ 13.8	1.32	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13394-ND	12.03	11.01	9.22	1608KL-04W-B59-L00	CR230-ND	.61
	24	20.0 ~ 25.2	0.96	4.9	.08	20.0	200	Ball	—	Rib	P12822-ND	11.44	10.48	8.77	1608KL-05W-B10-L00	CR230-ND	.61
	24	20.0 ~ 25.2	1.68	8.4	.21	29.0	200	Ball	—	Rib	P13585-ND	11.44	10.48	8.77	1608KL-05W-B40-L00	CR230-ND	.61
	24	20.0 ~ 25.2	1.92	9.5	.28	33.0	200	Ball	—	Rib	P12823-ND	11.44	10.48	8.77	1608KL-05W-B50-L00	CR230-ND	.61
	24	20.0 ~ 25.2	1.92	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13395-ND	12.03	11.01	9.22	1608KL-05W-B59-L00	CR230-ND	.61
40x28	12	7.0 ~ 13.2	0.84	6.0	.18	30.0	200	Ball	—	Rib	P13586-ND	12.46	11.40	9.54	1611RL-04W-B30-B00	CR230-ND	.61
	12	7.0 ~ 13.2	1.20	8.4	.33	37.5	200	Ball	—	Rib	P13587-ND	12.46	11.40	9.54	1611RL-04W-B40-B00	CR230-ND	.61
	12	7.0 ~ 13.2	2.04	10.5	.52	43.5	200	Ball	—	Rib	P13588-ND	12.46	11.40	9.54	1611RL-04W-B50-B00	CR230-ND	.61
	12	7.0 ~ 13.2	3.24	13.7	.87	49.5	200	Ball	—	Rib	P13589-ND	12.46	11.40	9.54	1611RL-04W-B60-B00	CR230-ND	.61
	12	7.0 ~ 13.2	4.32	15.8	1.13	54.0	200	Ball	—	Rib	P13590-ND	12.46	11.40	9.54	1611RL-04W-B70-B00	CR230-ND	.61
	12	7.0 ~ 13.2	7.44	19.4	1.61	60.0	200	Ball	—	Rib	P13591-ND	12.46	11.40	9.54	1611RL-04W-B80-B00	CR230-ND	.61
50x10	5	4.5 ~ 6.0	1.50	10.2	.14	34.0	200	Ball	—	Rib	P12824-ND	12.01	10.99	9.20	2004KL-01W-B50-B00	CR379-ND	.96
	5	4.5 ~ 6.0	1.50	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13396-ND	12.60	11.53	9.65	2004KL-01W-B59-B00	CR379-ND	.96
	12	10.2 ~ 13.8	1.20	10.2	.14	34.0	200	Ball	—	Rib	P12825-ND	12.01	10.99	9.20	2004KL-04W-B50-B00	CR379-ND	.96
	12	10.2 ~ 13.8	1.20	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13397-ND	12.60	11.53	9.65	2004KL-04W-B59-B00	CR379-ND	.96
52x15	12	10.2 ~ 13.0	1.56	14.1	.14	30.0	200	Ball	—	Rib	P12826-ND	11.54	10.56	8.84	2106KL-04W-B50-L00	CR388-ND	.66
	12	10.2 ~ 13.0	1.56	14.1	.14	30.0	200	Ball	Lock Rotor	Rib	P13398-ND	12.13	11.10	9.29	2106KL-04W-B59-L00	CR388-ND	.66
60x15	12	7.0 ~ 13.8	0.48	6.7	.03	19.0	200	Ball	—	Rib	P12827-ND	10.88	9.96	8.34	2406KL-04W-B10-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.08	14.1	.13	28.0	200	Ball	—	Rib	P13494-ND	10.88	9.96	8.34	2406KL-04W-B30-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.08	14.1	.13	28.0	200	Ball	Lock Rotor	Rib	P13495-ND	11.47	10.50	8.79	2406KL-04W-B39-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.92	18.3	.20	34.0	200	Ball	—	Rib	P12828-ND	10.88	9.96	8.34	2406KL-04W-B50-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.92	18.3	.20	34.0	200	Ball	Lock Rotor	Rib	P13399-ND	11.47	10.50	8.79	2406KL-04W-B59-L00	CR221-ND	.63
	24	12.0 ~ 27.6	1.44	14.1	.13	28.0	200	Ball	—	Rib	P13496-ND	10.88	9.96	8.34	2406KL-05W-B30-L00	CR221-ND	.63
	24	10.0 ~ 27.6	2.40	18.3	.20	34.0	200	Ball	—	Rib	P12829-ND	10.88	9.96	8.34	2406KL-05W-B50-L00	CR221-ND	.63
60x20	12	6.0 ~ 13.8	0.60	10.9	.07	22.5	300	Ball	—	Rib	P12830-ND	11.12	10.17	8.52	2408NL-04W-B10-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	—	Rib	P12831-ND	11.12	10.17	8.52	2408NL-04W-B50-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13400-ND	11.70	10.71	8.97	2408NL-04W-B59-L00	CR221-ND	.63
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Flange	P13402-ND	11.70	10.71	8.97	2408NL-04W-B59-P00	CR221-ND	.63
	24	15.0 ~ 27.6	1.20	15.9	.13	29.0	300	Ball	—	Rib	P12832-ND	11.12	10.17	8.52	2408NL-05W-B40-L00	CR221-ND	.63
	24	15.0 ~ 27.6	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13401-ND	11.70	10.71	8.97	2408NL-05W-B59-L00	CR221-ND	.63
60x25	12	6.0 ~ 13.8	0.90	13.7	.08	23.0	300	Ball	—	Rib	P12833-ND	10.69	9.79	8.19	2410ML-04W-B10-B00	CR221-ND	.63
	12	6.0 ~ 13.8	2.04	21.5	.20	33.5	300	Ball	—	Rib	P12834-ND	10.69	9.79	8.19	2410ML-04W-B40-B00	CR221-ND	.63
	12	6.0 ~ 13.8	1.80	24.0	.20	33.5	300	Ball	Lock Rotor	Rib	P13403-ND	7.59	6.95	5.82	2410RL-04W-B59-C00	CR221-ND	.63
	12	6.0 ~ 13.8	3.24	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13404-ND	7.59	6.95	5.82	2410RL-04W-B79-C00	CR221-ND	.63
	12	6.0 ~ 13.2	6.20	37.0	.57	46.0	300	Ball	Tac	Flange	P13406-ND	12.46	11.40	9.54	2410ML-04W-B89-E50	CR221-ND	.63
	24	10.0 ~ 27.6	2.40	23.3	.25	36.5	300	Ball	—	Rib	P12835-ND	10.69	9.79	8.19	2410ML-05W-B50-B00	CR221-ND	.63
	24	10.0 ~ 27.6	4.80	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13405-ND	7.59	6.95	5.82	2410RL-05W-B79-C00	CR221-ND	.63
	24	10.0 ~ 26.4	8.16	34.59	.482	50.0	300	Ball	Tac	Flange	P13407-ND	12.46	11.40	9.54	2410ML-05W-B89-E50	CR221-ND	.63
	24	10.0 ~ 26.4	8.16	34.59	.482	50.0	300	Ball	—	Flange	P13483-ND	11.87	10.86	9.09	2410ML-05W-B80-E00	CR221-ND	.63

(Continued)

DC Axial Fans *(Cont.)*

Dimensions mm	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guards	Price Each
	Nom.	Range										1	10	25			
60x25.5	12	7 ~ 13.8	2.52	20.5	.236	37.0	315	Hydrowave	—	Flange	P9758-ND	8.15	7.47	6.25	FBA06A12U1A	CR221-ND	.63
	12	7 ~ 13.8	2.52	20.5	.236	37.0	315	Hydrowave	Lock Rotor	Flange	P9995-ND	8.74	8.00	6.70	FBA06A12U1BS	CR221-ND	.63
	12	7 ~ 13.8	2.04	19.1	.20	32.0	315	Hydrowave	—	Flange	P9729-ND	8.39	7.68	6.43	FBA06A12H1A	CR221-ND	.63
	12	7 ~ 13.8	2.04	19.1	.20	32.0	315	Hydrowave	Tac	Flange	P11033-ND	8.98	8.22	6.88	FBA06A12H1BX	CR221-ND	.63
	12	7 ~ 13.8	1.56	16.6	.15	28.0	315	Hydrowave	—	Flange	P9767-ND	8.15	7.47	6.25	FBA06A12M1A	CR221-ND	.63
	12	7 ~ 13.8	1.32	14.1	.12	24.0	315	Hydrowave	—	Flange	P9728-ND	8.15	7.47	6.25	FBA06A12L1A	CR221-ND	.63
	12	7 ~ 13.8	1.32	14.1	.12	24.0	315	Hydrowave	Tac	Flange	P11034-ND	8.74	8.00	6.70	FBA06A12L1BX	CR221-ND	.63
	24	14 ~ 27.6	2.52	19.1	.20	32.0	315	Hydrowave	—	Flange	P9731-ND	8.15	7.47	6.25	FBA06A24H1A	CR221-ND	.63
	24	14 ~ 27.6	2.16	16.6	.15	28.0	315	Hydrowave	—	Flange	P9768-ND	8.15	7.47	6.25	FBA06A24M1A	CR221-ND	.63
	24	14 ~ 27.6	1.68	14.1	.12	24.0	315	Hydrowave	—	Flange	P9730-ND	8.15	7.47	6.25	FBA06A24L1A	CR221-ND	.63
80x15	12	6.0 ~ 13.8	1.32	23.3	.06	26.0	300	Ball	—	Rib	P13571-ND	11.68	10.69	8.95	3106KL-04W-B30-B02	CR180-ND	.87
	12	6.0 ~ 13.8	1.32	23.3	.06	26.0	300	Ball	Lock Rotor	Rib	P13572-ND	12.27	11.23	9.40	3106KL-04W-B39-B00	CR180-ND	.87
	12	6.0 ~ 13.0	2.76	32.8	.12	34.0	300	Ball	—	Rib	P13498-ND	11.68	10.69	8.95	3106KL-04W-B50-B01	CR180-ND	.87
	12	6.0 ~ 13.0	2.76	32.8	.12	34.0	300	Ball	Lock Rotor	Rib	P13570-ND	12.27	11.23	9.40	3106KL-04W-B59-B00	CR180-ND	.87
	24	10.0 ~ 27.6	1.68	23.3	.06	26.0	300	Ball	—	Rib	P13575-ND	11.68	10.69	8.95	3106KL-05W-B30-B00	CR180-ND	.87
	24	10.0 ~ 27.6	2.88	32.8	.12	34.0	300	Ball	—	Rib	P13573-ND	11.68	10.69	8.95	3106KL-05W-B50-B00	CR180-ND	.87
	24	10.0 ~ 27.6	2.88	32.8	.12	34.0	300	Ball	Lock Rotor	Rib	P13574-ND	12.27	11.23	9.40	3106KL-05W-B59-B00	CR180-ND	.87
80x20	12	6.0 ~ 13.8	1.08	26.5	.08	26.0	300	Ball	—	Flange	P12836-ND	11.40	10.43	8.73	3108NL-04W-B10-P00	CR180-ND	.87
	12	6.0 ~ 13.8	3.36	44.0	.20	42.0	300	Ball	—	Flange	P12837-ND	11.40	10.43	8.73	3108NL-04W-B50-P00	CR180-ND	.87
	12	6.0 ~ 13.8	3.36	44.0	.20	42.0	300	Ball	Lock Rotor	Rib	P13408-ND	11.99	10.97	9.18	3108NL-04W-B59-L00	CR180-ND	.87
	24	15.0 ~ 27.6	1.30	26.5	.08	26.0	300	Ball	—	Flange	P12838-ND	11.40	10.43	8.73	3108NL-05W-B10-P00	CR180-ND	.87
	24	15.0 ~ 27.6	3.60	44.0	.20	42.0	300	Ball	—	Flange	P12839-ND	11.40	10.43	8.73	3108NL-05W-B50-P00	CR180-ND	.87
	24	15.0 ~ 27.6	3.60	44.0	.20	42.0	300	Ball	Lock Rotor	Flange	P13409-ND	11.99	10.97	9.18	3108NL-05W-B59-P00	CR180-ND	.87
80x25	12	6.0 ~ 13.8	1.20	24.7	.07	22.0	300	Ball	—	Flange	P13485-ND	10.86	9.94	8.32	3110KL-04W-B10-D00	CR180-ND	.87
	12	6.0 ~ 13.8	2.04	31.8	.10	26.5	300	Ball	—	Flange	P13486-ND	10.86	9.94	8.32	3110KL-04W-B30-D00	CR180-ND	.87
	12	6.0 ~ 13.8	2.76	38.8	.15	34.0	300	Ball	—	Flange	P13487-ND	10.86	9.94	8.32	3110KL-04W-B50-D00	CR180-ND	.87
	12	6.0 ~ 13.0	3.12	40.2	.16	35.0	300	Ball	Lock Rotor	Flange	P13488-ND	11.44	10.48	8.77	3110KL-04W-B69-D00	CR180-ND	.87
	24	10.0 ~ 27.6	1.44	24.7	.07	22.0	300	Ball	—	Flange	P13489-ND	10.86	9.94	8.32	3110KL-05W-B10-D00	CR180-ND	.87
	24	10.0 ~ 27.6	2.88	38.8	.15	34.0	300	Ball	—	Flange	P13490-ND	10.86	9.94	8.32	3110KL-05W-B50-D00	CR180-ND	.87
	24	10.0 ~ 26.4	3.36	40.2	.16	35.0	300	Ball	Lock Rotor	Flange	P13491-ND	11.44	10.48	8.77	3110KL-05W-B69-D00	CR180-ND	.87
80x25.5	12	7 ~ 13.8	3.24	46.9	.189	38.2	300	Hydrowave	—	Flange	P9759-ND	8.15	7.47	6.25	FBA08A12U1A	CR180-ND	.87
	12	7 ~ 13.8	3.24	46.9	.189	38.2	300	Hydrowave	Lock Rotor	Flange	P9997-ND	8.74	8.00	6.70	FBA08A12U1BS	CR180-ND	.87
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	—	Flange	P9738-ND	8.15	7.47	6.25	FBA08A12H1A	CR180-ND	.87
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	—	Rib	P11035-ND	8.15	7.47	6.25	FBA08A12H1AZ	CR180-ND	.87
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	Lock Rotor	Flange	P11036-ND	8.74	8.00	6.70	FBA08A12H1BS	CR180-ND	.87
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	—	Flange	P9737-ND	8.15	7.47	6.25	FBA08A12M1A	CR180-ND	.87
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	Lock Rotor	Flange	P11038-ND	8.74	8.00	6.70	FBA08A12M1BS	CR180-ND	.87
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	Tac	Flange	P11039-ND	8.74	8.00	6.70	FBA08A12M1BX	CR180-ND	.87
	12	7 ~ 13.8	0.82	24.0	.061	21.0	300	Hydrowave	—	Flange	P9736-ND	8.15	7.47	6.25	FBA08A12L1A	CR180-ND	.87
	12	7 ~ 13.8	0.82	24.0	.061	21.0	300	Hydrowave	—	Rib	P11037-ND	8.15	7.47	6.25	FBA08A12L1AZ	CR180-ND	.87
	24	14 ~ 27.6	2.52	39.6	.148	32.0	300	Hydrowave	—	Flange	P9741-ND	8.15	7.47	6.25	FBA08A24H1A	CR180-ND	.87
	24	14 ~ 27.6	2.52	39.6	.148	32.0	300	Hydrowave	Tac	Flange	P11097-ND	13.51	12.37	10.35	FBA08A24H1CX	CR180-ND	.87
	24	14 ~ 27.6	1.70	32.1	.098	28.0	300	Hydrowave	—	Flange	P9740-ND	8.15	7.47	6.25	FBA08A24M1A	CR180-ND	.87
	24	14 ~ 27.6	1.30	24.0	.061	21.0	300	Hydrowave	—	Flange	P9739-ND	8.15	7.47	6.25	FBA08A24L1A	CR180-ND	.87
80x32	12	6.0 ~ 13.8	3.00	46.9	.22	37.0	300	Ball	—	Flange	P12845-ND	12.06	11.03	9.24	3112KL-04W-B40-E00	CR180-ND	.87
	12	6.0 ~ 12.6	5.40	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13412-ND	12.64	11.57	9.69	3112KL-04W-B69-E00	CR180-ND	.87
	24	10.0 ~ 27.6	3.36	46.9	.22	37.0	300	Ball	—	Flange	P12846-ND	12.06	11.03	9.24	3112KL-05W-B40-E00	CR180-ND	.87
	24	10.0 ~ 25.2	5.04	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13413-ND	12.64	11.57	9.69	3112KL-05W-B69-E00	CR180-ND	.87
92x25	12	6.0 ~ 13.8	0.876	26.5	.06	25.0	300	Ball	—	Flange	P13415-ND	12.46	11.40	9.54	3610KL-04W-B10-D00	CR220-ND	.72
	12	6.0 ~ 13.8	2.64	47.6	.15	37.5	300	Ball	—	Flange	P12847-ND	12.46	11.40	9.54	3610KL-04W-B40-D00	CR220-ND	.72
	12	6.0 ~ 13.8	2.64	47.6	.15	37.5	300	Ball	Lock Rotor	Rib	P13414-ND	13.04	11.94	9.99	3610KL-04W-B49-G00	CR220-ND	.72
	24	10.0 ~ 25.0	3.84	54.7	.19	41.0	300	Ball	—	Rib	P12848-ND	12.46	11.40	9.54	3610KL-05W-B50-D00	CR220-ND	.72
92x25.5	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	—	Flange	P9760-ND	8.15	7.47	6.25	FBA09A12U1A	CR220-ND	.72
	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	Lock Rotor	Rib	P11044-ND	8.74	8.00	6.70	FBA09A12U1BO	CR220-ND	.72
	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	Tac	Flange	P9975-ND	8.74	8.00	6.70	FBA09A12U1BX	CR220-ND	.72
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	—	Flange	P9744-ND	8.15	7.47	6.25	FBA09A12H1A	CR220-ND	.72
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	—	Flange	P11040-ND	8.15	7.47	6.25	FBA09A12H1AZ	CR220-ND	.72
	12	7 ~ 13.8	2.70	56.8	.16	35.0	295	Hydrowave	Tac	Flange	P13481-ND	7.43	6.97	5.70	FBA09A12H1BQ	CR220-ND	.72
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	Tac	Flange	P11042-ND	8.74	8.00	6.70	FBA09A12H1BX	CR220-ND	.72
	12	7 ~ 13.8	1.80	48.0	.118	30.0	295	Hydrowave	—	Flange	P9743-ND	8.15	7.47	6.25	FBA09A12M1A	CR220-ND	.72
	12	7 ~ 13.8	1.32	42.7	.09	27.0	295	Hydrowave	—	Flange	P9742-ND	8.15	7.47	6.25	FBA09A12L1A	CR220-ND	.72
	12	7 ~ 13.8	1.32	42.7	.09	27.0	295	Hydrowave	Tac	Flange	P11043-ND	8.74	8.00	6.70	FBA09A12L1BX	CR220-ND	.72
	24	12 ~ 27.6	7.2	68.8	.181	47.0	295	Hydrowave	Tac	Flange	P11096-ND	8.74	8.00	6.70	FBA09A24U1BX	CR220-ND	.72
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	—	Flange	P9747-ND	8.15	7.47	6.25	FBA09A24H1A	CR220-ND	.72
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	—	Rib	P11045-ND	8.15	7.47	6.25	FBA09A24H1AZ	CR220-ND	.72
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	Lock Rotor	Flange	P11046-ND	8.74	8.00	6.70	FBA09A24H1BS	CR220-ND	.72
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	Tac	Flange	P11047-ND	8.74	8.00	6.70	FBA09A24H1BX	CR220-ND	.72
	24	14 ~ 27.6	2.64	48.0	.118	30.0	295	Hydrowave	—	Flange	P9746-ND	8.15	7.47	6.25	FBA09A24M1A	CR220-ND	.72
	24	14 ~ 27.6	1.92	42.7	.09	27.0	295	Hydrowave	—	Flange	P9745-ND	8.15	7.47	6.25	FBA09A24L1A	CR220-ND	.72
92x38	12	7.0 ~ 13.2	4.08	68.5	.29	44.0	300	Ball	—	Flange	P12849-ND	19.60	17.94	15.02	3615KL-04W-B40-P00	CR220-ND	.72
	12	7.0 ~ 12.6	5.52	76.2	.36	46.5	300	Ball	Lock Rotor	Flange	P13416-ND	20.19	18.47	15.47	3615KL-04W-B59-P00	CR220-ND	.72
	24	12.0 ~ 25.2	5.76	76.2	.36	46.5	300	Ball	—	Flange	P12850-ND	19.60	17.94	15.02	3615KL-05W-B50-P00	CR220-ND	.72
	24	12.0 ~ 25.2	5.76	76.2	.36	46.5	300	Ball	Lock Rotor	Flange	P13417-ND	20.19	18.47	15.47	3615KL-05W-B59-P00	CR220-ND	.72
119x25	12	6.0 ~ 13.8	1.44	63.5	.07	27.0	300	Ball	—	Rib	P13418-ND	15.39	14.09	11.79	4710KL-04W-B10-E00	CR210-ND	1.62
	12	6.0 ~ 13.0	6.60	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13420-ND	15.98	14.62	12.24	4710KL-04W-B59-E00	CR210-ND	1.62
	12	6.0 ~ 13.0	6.60	114.7	.20	41.5	300	Ball	—	Flange	P13448-ND	15.39	14.09	11.79	4710KL-04W-B50-E00	CR210-ND	1.62
	24	10.0 ~ 27.6	1.92	63.5	.07	27.0	300	Ball	—	Flange	P13449-ND	15.39	14.09	11.79	4710KL-05W-B10-E00	CR210-ND	1.62
	24	10.0 ~ 26.0	6.96	114.7	.20	41.5	300	Ball	—	Flange	P13447-ND	15.39	14.09	11.79	4710KL-05W-B50-E00	CR210-ND	1.62
	24	10.0 ~ 26.0	6.96	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13419-ND	15.98	14.62	12.24	4710KL-05W-B59-E00	CR210-ND	1.62
119x32	12	6.0 ~ 13.8	1.92	56.1	.09	29.0	300	Ball	—	Flange	P12854-ND	21.50	19.68	16.47	4712KL-04W-B10-P00	CR210-ND	1.62
	12	6.0 ~ 13.8	8.28	112.0	.33	47.0	300	Ball	—	Flange	P12855-ND	21.50	19.68	16.47	4712KL-04W-B50-P00	CR210-ND	1.62
	12	6.0 ~ 13.8	8.28	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13421-ND	22.09	20.21	16.92	4712KL-04W-B59-P00	CR210-ND	1.62
	24	12.0 ~ 27.6	8.16	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13422-ND	22.09	20.21	16.92	4712KL-05W-B49-P00	CR210-ND	1.62
	48	28.0 ~ 55.2	10.08	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13423-ND	22.09	20.21	16.92	4712KL-07W-B49-P00	CR210-ND	1.62

(Continued)

DC Axial Fans *(Cont.)*

Dimensions mm	Operating Voltage (VDC) Nom.	Range	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each 1	10	25	NMB Technologies Part No.	Finger Guards	Price Each
119x38	12	6.0 ~ 13.8	6.60	108.0	.27	42.5	300	Ball	—	Flange	P12857-ND	18.96	17.36	14.53	4715KL-04W-B30-P00	CR210-ND	1.62
	12	6.0 ~ 13.8	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12858-ND	18.96	17.36	14.53	4715KL-04W-B40-P00	CR210-ND	1.62
	12	8.0 ~ 13.2	17.50	162.0	.69	56.5	300	Ball	—	Flange	P12862-ND	50.27	45.99	38.51	4715SL-04W-B50-D00	CR210-ND	1.62
	12	9.5 ~ 12.6	12.0	129.9	.44	50.0	300	Ball	Lock Rotor	Flange	P13424-ND	19.55	17.89	14.98	4715KL-04W-B59-P00	CR210-ND	1.62
	12	8.0 ~ 12.9	23.0	181.0	.85	59.5	300	Ball	Lock Rotor	Flange	P13427-ND	50.85	46.53	38.96	4715SL-04W-B69-D00	CR210-ND	1.62
	24	10.0 ~ 27.6	7.44	108.0	.27	42.5	300	Ball	—	Flange	P12859-ND	18.96	17.36	14.53	4715KL-05W-B30-P00	CR210-ND	1.62
	24	10.0 ~ 27.6	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12860-ND	18.96	17.36	14.53	4715KL-05W-B40-P00	CR210-ND	1.62
	24	15.0 ~ 27.6	17.80	162.0	.69	56.5	300	Ball	—	Flange	P12863-ND	50.27	45.99	38.51	4715SL-05W-B50-D00	CR210-ND	1.62
	24	18.0 ~ 25.0	12.0	130.0	.44	50.0	300	Ball	Lock Rotor	Flange	P13425-ND	19.55	17.89	14.98	4715KL-05W-B59-P00	CR210-ND	1.62
	48	25.0 ~ 55.2	7.68	108.0	.27	42.5	300	Ball	—	Flange	P12861-ND	18.96	17.36	14.53	4715KL-07W-B30-P00	CR210-ND	1.62
	48	25.0 ~ 55.2	7.68	108.0	.27	42.5	300	Ball	Lock Rotor	Flange	P13426-ND	19.55	17.89	14.98	4715KL-07W-B39-P00	CR210-ND	1.62
	48	30.0 ~ 50.4	39.84	201.0	1.04	62.3	300	Ball	Lock Rotor	Flange	P13430-ND	62.16	56.87	47.61	4715SL-07W-B79-D00	CR210-ND	1.62
120x38	12	7 ~ 13.8	7.80	114.7	.315	45.5	280	Hydrowave	—	Flange	P9761-ND	17.44	15.96	13.36	FBA12G12U1A	CR210-ND	1.62
	12	7 ~ 13.8	5.52	103.8	.267	41.5	280	Hydrowave	—	Flange	P9750-ND	17.44	15.96	13.36	FBA12G12H1A	CR210-ND	1.62
	12	7 ~ 13.8	5.52	103.8	.267	41.5	280	Hydrowave	Tac	Flange	P11050-ND	18.02	16.50	13.81	FBA12G12H1BX	CR210-ND	1.62
	12	7 ~ 13.8	4.08	86.5	.189	35.5	280	Hydrowave	—	Flange	P9749-ND	17.44	15.96	13.36	FBA12G12M1A	CR210-ND	1.62
	12	7 ~ 13.8	2.16	68.9	.130	30.0	280	Hydrowave	—	Flange	P9748-ND	17.44	15.96	13.36	FBA12G12L1A	CR210-ND	1.62
	24	14 ~ 27.6	5.52	103.8	.267	41.5	280	Hydrowave	—	Flange	P9753-ND	17.44	15.96	13.36	FBA12G24H1A	CR210-ND	1.62
	24	14 ~ 27.6	5.52	103.8	.267	41.5	280	Hydrowave	Tac	Flange	P11080-ND	18.02	16.50	13.81	FBA12G24H1BX	CR210-ND	1.62
	24	14 ~ 27.6	3.84	86.5	.189	35.5	280	Hydrowave	—	Flange	P9752-ND	17.44	15.96	13.36	FBA12G24M1A	CR210-ND	1.62
	24	14 ~ 27.6	2.64	68.9	.130	30.0	280	Hydrowave	—	Flange	P9751-ND	17.44	15.96	13.36	FBA12G24L1A	CR210-ND	1.62
150x172x25	12	6.0 ~ 18.0	24.7	250	.65	62.5	400	Ball	—	Rib	P12864-ND	72.03	65.90	55.17	5910PL-04W-B50-L00	CR191-ND	2.33
	24	12.0 ~ 30.0	24.0	250.0	.65	62.5	400	Ball	—	Rib	P12865-ND	72.03	65.90	55.17	5910PL-05W-B50-L00	CR191-ND	2.33
	48	25.0 ~ 60.0	35.5	290.0	.89	65.4	400	Ball	Lock Rotor	Rib	P13432-ND	72.62	66.44	55.62	5910PL-07W-B79-L00	CR191-ND	2.33
150x172x50	12	6.0 ~ 18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12866-ND	72.10	65.97	55.23	5920PL-04W-B40-D00	CR191-ND	2.33
	24	12.0 ~ 30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12867-ND	72.10	65.97	55.23	5920PL-05W-B40-D00	CR191-ND	2.33
	24	12.0 ~ 30.0	15.84	240.0	.62	58.0	300	Ball	Tac	Flange	P13434-ND	72.69	66.50	55.68	5920PL-05W-B49-D50	CR191-ND	2.33
	12	6.0 ~ 18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12868-ND	72.10	65.97	55.23	6820PL-04W-B40-D00	CR196-ND	2.84
172x50	24	12.0 ~ 30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12869-ND	72.10	65.97	55.23	6820PL-05W-B40-D00	CR196-ND	2.84
	48	25.0 ~ 60.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12870-ND	72.10	65.97	55.23	6820PL-07W-B40-D00	CR196-ND	2.84

DC Fans UDQ Series

SPECIFICATIONS:
• **Operating Temperature:** 0°C ~ 70°C • **Operating Humidity:** <85 Rh% • **Operating Voltgage (VDC): Nom:** 5, **Range:** 3.1 ~ 5.5 • **Life Expectancy (Hrs @ 60°C):** 30,000

Note: Not for New Design

Dimensions mm A	B	C	Current @ 60°C (mA)	Speed @ 60°C (r/min)	Max Air Flow @ 60°C (m3/min.)	(CFM)	Max Air Pressure @ 60°C (Pa)	(in H2O)	Noise @ 1M dBA	Digi-Key Part No.	Price Each 1	10	25	50	100	NMB Technologies Part No.
25	25	10	40	7,800	0.040	1.41	24	0.10	17	P11093-ND	10.99	10.30	8.42	7.72	6.78	UDQFBFM01CP1

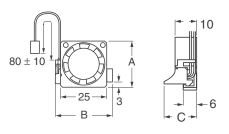

DC Blowers

NMB-MAT DC Blowers are most suitable for cooling in high back pressure applications. Since the fan impeller is housed inside a rugged plastic enclosure, the blower is not affected by high back pressure caused by objects in close proximity to the exhaust port.

Specifications: • Operating Temperature: -10°C ~ 60°C • Storage Temperature: -40°C ~ 75°C • Blowers with Hydro-Wave and Ball Bearing Technology

Fig. 1

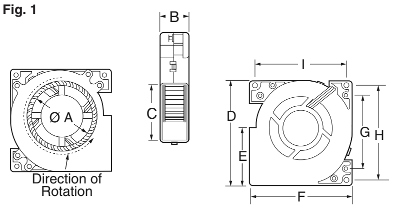

Fig. 2

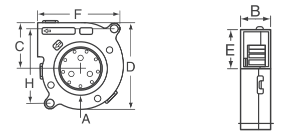

Model Type	Dimensions - mm A	B	C	D	E	F	G	H	I
FAL-6F	65.8	28.1	55.7	111.4	60.7	107.1	76	99	97
FAL-5F	50	28	37	76	41	76	47	68	68
FAL-3F	33.2	20	26.8	50	26.8	50	29.6	43	43
BM5115	32	15	27	51	20	51	—	43	—
BM5125	32	25	27	51	20	51	—	43	—
BM6015	—	15	32	60	30	60	—	23	—
BG0702	—	25	39.9	75.7	39.9	75.7	—	67.1	—
BG0703	—	30	39.9	75.7	39.9	75.7	—	67.1	—
BG0903	—	33	58	93.5	53	97	—	71	—
BG1203	—	32	55	120	61	120	—	105	90

Fig.	Operating Voltage (VDC) Nom.	Range	Input Current (mA)	Power (W)	Air Flow CFM	Static Pressure In H2O	Noise	Digi-Key Part No.	Price Each 1	10	25	NMB Technologies Part No.
1	12	7 ~ 13.8	500	6.00	22.97	0.71	45	P9754-ND◆	28.83	26.39	22.09	FAL6F12LH
	12	7 ~ 13.8	280	3.36	18.73	0.44	40	P9755-ND◆	28.83	26.39	22.09	FAL6F12LL
	24	14 ~ 27.6	295	7.08	23.7	0.78	45	P9763-ND◆	28.83	26.39	22.09	FAL6F24LH
	24	14 ~ 27.6	155	3.72	18.7	0.45	40	P9764-ND	28.83	26.39	22.09	FAL6F24LL
	12	7 ~ 13.8	210	2.52	10.60	0.41	35	P9756-ND◆	26.48	24.24	20.29	FAL5F12LH
	12	7 ~ 13.8	145	1.74	8.83	0.24	29	P9757-ND◆	26.48	24.24	20.29	FAL5F12LL
	24	14 ~ 27.6	150	3.50	9.18	0.28	40	P9765-ND	26.48	24.24	20.29	FAL5F24LH
	24	14 ~ 27.6	100	2.40	7.06	0.16	37.5	P9766-ND◆	26.48	24.24	20.29	FAL5F24LL
	5	4.5 ~ 6	320	1.60	3.17	0.24	34	P9772-ND◆	20.61	18.86	15.79	FAL3F05LL
	5	4.5 ~ 6	570	2.85	4.24	0.39	40	P9773-ND◆	20.61	18.86	15.79	FAL3F05LH
	12	7 ~ 13.8	170	2.04	3.17	0.24	34	P9774-ND◆	20.61	18.86	15.79	FAL3F12LL
	12	7 ~ 13.8	270	3.24	4.24	0.39	40	P9775-ND◆	20.61	18.86	15.79	FAL3F12LH
	24	14 ~ 27.6	150	3.60	4.24	0.39	40	P9776-ND◆	20.61	18.86	15.79	FAL3F24LH
2	12	10.2 ~ 13.8	120	1.44	3.5	0.48	35	P12901-ND◆	11.99	10.97	9.18	BM5115-04W-B40-L00
	12	10.2 ~ 13.8	130	1.56	5.3	.34	34	P12902-ND◆	11.99	10.97	9.18	BM5125-04W-B40-L00
	12	10.2 ~ 13.8	240	2.88	6.7	.64	41	P12903-ND◆	11.99	10.97	9.18	BM5125-04W-B50-L00
	12	10.2 ~ 13.8	240	2.88	6.7	.64	41	P13438-ND‡	12.57	11.51	9.63	BM5125-04W-B59-L00
	12	9 ~ 12.6	220	2.64	4.2	.68	42	P13439-ND‡	12.83	11.74	9.83	BM6015-04W-B59-L00
	12	6 ~ 13.8	250	3.00	9.5	.61	43	P13440-ND‡	15.30	14.00	11.72	BG0702-B045-00L-00
	24	10 ~ 27.6	140	3.36	9.50	.61	43	P12905-ND◆	14.71	13.46	11.27	BG0702-B055-000-00
	12	6 ~ 13.0	290	3.48	10.6	.44	38.5	P12906-ND◆	14.71	13.46	11.27	BG0703-B044-000-00
	12	6 ~ 13.0	290	3.48	10.6	.44	38.5	P13441-ND‡	14.22	13.01	10.89	BG0703-B04-400-L00
	24	10 ~ 26.0	150	3.60	10.6	.44	38.5	P12907-ND◆	14.71	13.46	11.27	BG0703-B054-000-00
	12	8 ~ 12.8	1030	12.40	28.6	1.4	54.5	P12908-ND◆	20.68	18.92	15.84	BG0903-B044-000-00
	12	10.8 ~ 12.6	1600	19.2	38.1	1.9	—	P13442-ND†	21.27	19.46	16.29	BG0903-B047-00S-00
	24	10 ~ 25.0	490	11.80	28.6	1.4	54.5	P12909-ND◆	20.68	18.92	15.84	BG0903-B054-000-00
	24	10 ~ 25	490	11.8	28.6	1.4	54.5	P13443-ND‡	19.74	18.06	15.12	BG0903-B05-400-L00
1	12	6 ~ 13.8	650	7.80	28.2	.70	52	P12910-ND◆	22.58	20.67	17.30	BG1203-B044-000-00
	12	6 ~ 13.8	650	7.8	28.2	.70	52	P13444-ND‡	23.17	21.20	17.75	BG1203-B044-00L-00
	12	6 ~ 13.8	930	11.16	33.2	1.04	55	P13445-ND†	23.17	21.20	17.75	BG1203-B045-00S-00
	24	12 ~ 25.2	480	11.52	33.2	1.04	55	P12911-ND◆	22.58	20.67	17.30	BG1203-B055-000-00

◆ ***RoHS Compliant*** ‡ Locked Rotor Sensor † Tac Sensor

SUNON Thin Cooling Fans

Specifications: • Motor: Patented brushless DC motor design • Fan Housing: Injection molded non-flammable black thermoplastic UL94V-0 rating • Impeller: Injection molded non-flammable black thermoplastic UL94V-0 rating Bearing: • Precision, life-lubricated ball bearing system; Precision, oil-impregnated sintered sleeve bearing system. • Insulation: Class E integral ground system rated @ 100°C • Insulation Resistance: More than 500MΩ between internal stator and lead wire (+) measured by DC 500V • Dielectric Strength: 500VAC for one minute • Operating Temperature: -10°C ~ 70°C for ball and sleeve bearing version; 0°C ~ 70°C for vapo bearing version • Storage Temperature: -40°C ~ 70°C • Operating Voltage: Rated voltage ±15% • Life Expectancy: 30,000 hours

E Series: is designed and engineered to maximize the air flow and the fan's operating life time. By incorporating highly precise components and a new impeller design, this series offers the best quality. Options like frequency generator and rotation detector are also available upon request.

ME Series: is designed and engineered with a new bearing system to maximize the air flow and the fan operating life time.

Fig. 1

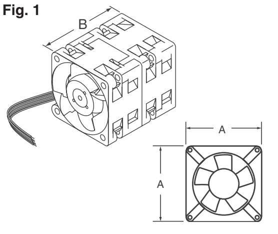

Fig. 2

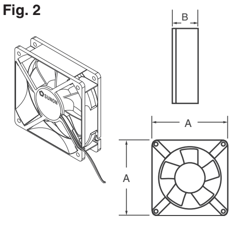

Dim. (mm) A x B	Operating Voltage (VDC)		Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Sensor	Digi-Key Part No.	Price Each			Sunon Part No.
	Nom.	Range										1	10	25	
Fig. 1 — Hi-Performance Dual Axial Fans															
40 x 48	12	5 ~ 13.8	Ball	1.40	16.8	14500/9500	27	1.97	61	—	259-1301-ND	23.97	22.47	18.36	PMD1204PJB1-A
40 x 56	12	6 ~ 13.8	Ball	1.4	16.8	14500	26.5	1.73	59	—	259-1369-ND◆	36.80	33.67	28.19	PMD1204PPB1-A.(2).GN
Fig. 2 — Plastic Ultra-Thin Brushless Axial DC Fans — RoHS Compliant															
17 x 8	5	3 ~ 6	Vapo	0.11	0.60	15000	0.70	0.17	16	—	259-1333-ND	18.28	16.73	14.01	GM0517PDV2-8.GN
20 x 8	5	3 ~ 6	Vapo	0.17	0.90	15000	1.60	0.22	23	—	259-1319-ND	17.25	15.79	13.22	GM0501PDV1-8.GN
	5	3 ~ 6	Vapo	0.11	0.60	12000	1.30	0.15	21	—	259-1320-ND	17.25	15.79	13.22	GM0501PDV2-8.GN
25 x 6	5	3 ~ 6	Vapo	0.11	0.60	13000	3.00	0.22	31	—	259-1322-ND	13.70	12.54	10.50	GM0502PEV1-8.N.GN
	5	3 ~ 6	Vapo	0.08	0.40	10000	2.20	0.16	23	—	259-1323-ND	13.70	12.54	10.50	GM0502PEV2-8.N.GN
30 x 6	5	3 ~ 6	Vapo	0.13	0.70	9500	4.9	0.14	28	—	259-1327-ND	13.70	12.54	10.50	GM0503PEV1-8.N.GN
	5	3 ~ 6	Vapo	0.08	0.40	7500	3.7	0.09	24	—	259-1328-ND	13.70	12.54	10.50	GM0503PEV2-8.N.GN
40 x 6	5	3 ~ 6	Vapo	0.09	0.50	7000	5.9	0.10	32	—	259-1331-ND	15.39	14.09	11.79	GM0504PEV1-8.GN
	5	3 ~ 6	Vapo	0.07	0.40	6000	5.5	0.08	26	—	259-1332-ND	15.39	14.09	11.79	GM0504PEV2-8.GN
Fig. 2 — Plastic Thin Brushless Axial DC Fans — RoHS Compliant															
20 x 10	5	3 ~ 6	Vapo	0.18	0.9	14000	1.5	0.20	20	—	259-1321-ND	15.46	14.15	11.85	GM0501PFV2-8.N.GN
25 x 10	5	3 ~ 6	Vapo	0.12	0.6	13000	3.5	0.25	23	Tac	259-1324-ND	14.76	13.51	11.31	GM0502PFV1-8.F.GN
	5	3 ~ 6	Vapo	0.12	0.6	13000	3.5	0.25	23	—	259-1325-ND	13.70	12.54	10.50	GM0502PFV1-8.GN
	5	3 ~ 6	Vapo	0.08	0.4	10000	3.0	0.18	16	—	259-1326-ND	13.70	12.54	10.50	GM0502PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.067	0.8	13000	3.5	0.25	23	—	259-1394-ND	13.70	12.54	10.50	GM1202PFV1-8.GN
	12	4.5 ~ 13.8	Vapo	0.038	0.5	10000	3.0	0.18	16	—	259-1395-ND	13.70	12.54	10.50	GM1202PFV2-8.GN
30 x 10	5	3 ~ 6	Vapo	0.14	0.7	9500	5.5	0.15	23	—	259-1329-ND	13.70	12.54	10.50	GM0503PFV1-8.GN
	5	3 ~ 6	Vapo	0.10	0.5	8000	4.6	0.12	20	—	259-1330-ND	13.70	12.54	10.50	GM0503PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.078	1.0	9500	5.5	0.15	23	—	259-1396-ND	13.70	12.54	10.50	GM1203PFV1-8.GN
	12	4.5 ~ 13.8	Vapo	0.042	0.5	8000	4.6	0.12	20	—	259-1397-ND	13.70	12.54	10.50	GM1203PFV2-8.GN
35 x 10	5	3 ~ 6	Vapo	0.15	0.8	9500	7.0	0.18	28	—	259-1334-ND	13.70	12.54	10.50	GM0535PFV1-8.GN
	5	3 ~ 6	Vapo	0.10	0.5	7500	6.5	0.12	22	—	259-1305-ND	13.70	12.54	10.50	GM0535PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.08	1.0	9500	7.0	0.18	28	—	259-1391-ND	15.39	14.09	11.79	GM1235PFV1-8.GN
	12	4.5 ~ 13.8	Vapo	0.043	0.5	7500	6.5	0.12	22	—	259-1392-ND	15.39	14.09	11.79	GM1235PFV2-8.GN
38 x 20	12	6 ~ 13.8	Ball	0.26	3.1	13000	12	0.61	44	—	259-1400-ND	16.78	15.36	12.86	PMD1238PKB1-A.(2).GN
38 x 28	12	6 ~ 13.8	Ball	.30	3.6	13000	16.5	0.91	47	—	259-1401-ND	17.67	16.17	13.54	PMD1238PQB1-A.(2).GN
40 x 10	5	4 ~ 6	Vapo	0.24	1.2	7000	8.0	0.19	32	Tac	259-1341-ND	7.83	7.16	6.00	KDE0504PFV1.11.MS.AF.GN
	5	4 ~ 6	Vapo	0.24	1.2	7000	8.0	0.19	32	—	259-1342-ND	6.77	6.20	5.19	KDE0504PFV1.11.MS.A.GN
	5	4 ~ 6	Vapo	0.14	0.7	5800	7.0	0.13	27	—	259-1343-ND	6.77	6.20	5.19	KDE0504PFV2.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.15	1.8	8500	9.5	0.25	39	—	259-1352-ND	6.37	5.83	4.88	KDE1204PFV1.11.MS.AF.GN
	12	4.5 ~ 13.8	Vapo	0.09	1.1	7000	8.0	0.19	32	Tac	259-1349-ND	7.43	6.80	5.69	KDE1204PFV1.11.MS.AF.GN
	12	4.5 ~ 13.8	Vapo	0.09	1.1	7000	8.0	0.19	32	—	259-1350-ND	6.37	5.83	4.88	KDE1204PFV1.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	50	0.6	5500	4.9	0.10	20	—	259-1398-ND	8.25	7.55	6.32	KDE1204PFV3 11.MS.B981.A.GN
	12	6 ~ 13.8	Vapo	0.08	1.0	5800	7.0	0.13	27	—	259-1351-ND	6.37	5.83	4.88	KDE1204PFV2.11.MS.A.GN
40 x 20	12	4.5 ~ 13.8	Vapo	0.05	0.6	6200	7.7	0.16	21	—	259-1353-ND	8.18	7.49	6.27	KDE1204PKV2.MS.A.GN
40 x 24	12	6 ~ 13.8	Ball	0.72	8.6	15000	24	1.34	55.5	Tac	259-1370-ND	21.97	20.11	16.83	PMD1204PQB1-A.(2).U.F.GN
	12	6 ~ 13.8	Ball	0.78	9.4	14500	23.5	1.26	55.0	—	259-1402-ND	19.13	17.51	14.66	PMD1204PBB1-A.(2).GN
40 x 28	12	6 ~ 13.8	Ball	0.72	8.6	15000	24	1.34	55.5	—	259-1371-ND	20.92	19.14	16.02	PMD1204PQB1-A.(2).U.GN
	12	6 ~ 13.8	Ball	0.57	6.8	13000	23.5	1.15	51.5	Tac	259-1372-ND	21.03	19.25	16.11	PMD1204PQBX-A.(2).F.GN
45 x 10	5	4 ~ 6	Vapo	0.25	1.3	6000	11	0.17	32	—	259-1347-ND	7.05	6.45	5.40	KDE0545PFV1.11.MS.A.GN
	5	4 ~ 6	Vapo	0.15	0.8	5000	9.2	0.12	27	—	259-1348-ND	7.05	6.45	5.40	KDE0545PFV2.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.16	1.9	7100	12.5	0.22	35	—	259-1362-ND	6.37	5.83	4.88	KDE1245PFVX.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.10	1.2	6000	11	0.17	32	—	259-1360-ND	6.37	5.83	4.88	KDE1245PFV1.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.08	1.0	5000	9.2	0.12	27	—	259-1361-ND	6.37	5.83	4.88	KDE1245PFV2.11.MS.A.GN
50 x 10	5	4 ~ 6	Vapo	0.27	1.4	5200	13	0.14	30	—	259-1344-ND	6.96	6.37	5.33	KDE0505PFV1.11.MS.A.GN
	5	4 ~ 6	Vapo	0.16	0.8	4300	11	0.11	26	—	259-1345-ND	4.86	4.46	3.73	KDE0505PFV2-11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.17	2.0	6100	15.2	0.18	35	—	259-1356-ND	6.11	5.59	4.68	KDE1205PFVX.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.11	1.3	5200	13	0.14	30	—	259-1354-ND	4.39	4.03	3.37	KDE1205PFV1 11.MS.A.GN
	12	6 ~ 13.8	Vapo	0.09	1.1	4300	11	0.11	26	—	259-1355-ND	4.77	4.37	3.66	KDE1205PFV2 11.MS.A.GN
50 x 15	5	3.5 ~ 6	Vapo	0.15	0.8	4700	13	0.17	29	—	259-1346-ND	8.06	7.38	6.18	KDE0505PHV2.MS.A.GN
	12	6 ~ 13.8	Vapo	0.07	0.8	4700	13	0.17	29	—	259-1357-ND	6.04	5.53	4.63	KDE1205PHV2 MS.A.GN
60 x 15	12	6 ~ 13.8	Ball	0.154	1.9	4300	21	0.18	37	Tac	259-1336-ND	12.03	11.01	9.22	KD1206PHB1 (2).F.GN
	12	6 ~ 13.8	Ball	0.154	1.9	4300	21	0.18	37	—	259-1337-ND	13.09	11.98	10.03	KD1206PHB1.(2).GN
60 x 20	12	6 ~ 13.8	Ball	0.22	2.6	5000	27.5	0.28	39	—	259-1403-ND	18.05	16.52	13.83	PMD1206PKB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.12	2.9	5000	27.5	0.28	39	—	259-1404-ND	17.16	15.70	13.14	PMD2406PKB1-A.(2).GN
60 x 25	12	4.5 ~ 13.8	Vapo	0.14	1.7	4500	23.5	0.21	33.5	—	259-1358-ND	8.91	8.15	6.83	KDE1206PTV1 MS.A.GN
	12	5 ~ 13.8	Ball	0.12	1.4	4500	23.5	0.24	33	—	259-1339-ND	11.16	10.22	8.55	KD1206PTB1 (2).GN
	12	6 ~ 13.8	Ball	0.32	3.8	6900	36	0.54	44	—	259-1405-ND	17.53	16.04	13.43	PMD1206PTB1-A.(2).U.GN
	24	10 ~ 27.6	Ball	0.158	3.8	6900	36	0.54	44	—	259-1407-ND	18.38	16.82	14.08	PMD2406PTB1-A.(2).U.GN
	48	24 ~ 56	Ball	0.09	4.3	6900	36	0.54	44	—	259-1406-ND	18.38	16.82	14.08	PMD4806PTB1-A.(2).U.GN
60 x 38	12	6 ~ 13.8	Ball	0.88	10.6	8000	56.5	0.92	56	—	259-1373-ND	23.17	21.20	17.75	PMD1206PMB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.43	10.3	8000	56.5	0.92	56	—	259-1408-ND	25.54	23.38	19.57	PMD2406PMB1-A.(2).GN
	48	24 ~ 55.2	Ball	0.24	11.5	8000	56.5	0.92	56	—	259-1409-ND	26.63	24.36	20.40	PMD4806PMB1-A.(2).GN
70 x 25	12	6 ~ 13.8	Ball	0.37	4.4	5100	49	0.36	45	—	259-1410-ND	16.61	15.21	12.73	PMD1207PTB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.19	4.6	5100	49	0.36	45	—	259-1411-ND	18.21	16.67	13.95	PMD2407PTB1-A.(2).GN
80 x 15	12	5 ~ 13.8	Ball	0.24	2.9	3300	35	0.17	39.5	—	259-1442-ND	11.33	10.37	8.68	KD1208PHB1.13.(2).GN
	12	5 ~ 13.8	Ball	0.24	2.9	3300	35	0.17	39.5	Tac	259-1443-ND	12.38	11.34	9.49	KD1208PHB1 13.(2).F.GN
80 x 20	12	6 ~ 13.8	Ball	0.39	4.7	4600	53	0.36	49	—	259-1413-ND	16.40	15.01	12.57	PMD1208PKB1-A.(2).GN
80 x 25	12	4.5 ~ 13.8	Vapo	0.145	1.7	3200	41	0.18	33	—	259-1458-ND	5.80	5.32	4.45	ME80251V1-0000-A99
	12	4.5 ~ 13.8	Vapo	0.12	1.4	2900	37	0.15	30	—	259-1459-ND	5.80	5.32	4.45	ME80251V2-0000-999
	12	4.5 ~ 13.8	Vapo	0.09	1.1	2600	33	0.11	28	—	259-1460-ND	5.80	5.32	4.45	ME80251V3-0000-999
	12	4.5 ~ 13.8	Sleeve	0.145	1.7	3200	41	0.18	33	—	259-1461-ND	3.38	3.10	2.60	EE80251S1-0000-A99
	12	4.5 ~ 13.8	Sleeve	0.12	1.4	2900	37	0.15	30	—	259-1462-ND	3.27	2.99	2.51	EE80251S2-0000-999
	12	4.5 ~ 13.8	Sleeve	0.09	1.1	2600	33	0.11	28	—	259-1463-ND	3.27	2.99	2.51	EE80251S3-0000-999
	12	6 ~ 13.8	Ball	0.40	4.8	4700	60	0.43	47	—	259-1415-ND	16.07	14.71	12.32	PMD1208PTB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.21	5.0	4700	60	0.43	47	—	259-1416-ND	17.84	16.32	13.67	PMD2408PTB1-A.(2).GN
	24	10 ~ 27.6	Vapo	0.073	1.8	3200	41	0.18	33	—	259-1506-ND	7.33	6.71	5.62	ME80252V1-0000-A99
	24	10 ~ 27.6	Vapo	0.059	1.4	2900	37	0.15	30	—	259-1507-ND	7.33	6.71	5.62	ME80252V2-0000-A99
	24	10 ~ 27.6	Vapo	0.049	1.2	2600	33	0.11	28	—	259-1508-ND	7.33	6.71	5.62	ME80252V3-0000-A99
80 x 38	12	6 ~ 13.8	Ball	0.76	9.1	5700	84.1	0.74	55.2	—	259-1374-ND	23.19	21.23	17.77	PMD1208PMB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.40	9.6	5700	84.1	0.74	55.2	—	259-1418-ND	25.57	23.40	19.59	PMD2408PMB1-A.(2).GN
92 x 25	12	4.5 ~ 13.8	Vapo	0.165	2.0	3000	51.5	0.15	34	—	259-1464-ND	6.20	5.68	4.76	ME92251V1-0000-A99
	12	4.5 ~ 13.8	Vapo	0.135	1.6	2700	45	0.13	32	—	259-1465-ND	6.20	5.68	4.76	ME92251V2-0000-999
	12	4.5 ~ 13.8	Vapo	0.105	1.3	2400	39.5	0.10	28	—	259-1466-ND	6.20	5.68	4.76	ME92251V3-0000-999
	12	4.5 ~ 13.8	Sleeve	0.165	2.0	3000	51.5	0.15	34	—	259-1467-ND	3.55	3.25	2.72	EE92251S1-0000-A99

◆ RoHS Compliant   ***Please Note: Custom Fan Cable Assemblies available upon request***

(Continued)

SUNON Thin Cooling Fans *(Cont.)*

Dim. (mm) A x B	Operating Voltage (VDC)		Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Sensor	Digi-Key Part No.	Price Each			Sunon Part No.
	Nom.	Range										1	10	25	
92 x 25	12	4.5 ~ 13.8	Sleeve	0.135	1.6	2700	45	0.13	32	—	259-1468-ND	3.50	3.21	2.69	EE92251S2-0000-999
	12	4.5 ~ 13.8	Sleeve	0.105	1.3	2400	39.5	0.10	28	—	259-1469-ND	3.50	3.21	2.69	EE92251S3-0000-999
	12	6 ~ 13.8	Ball	0.46	5.5	4200	77	0.37	48	—	259-1420-ND	16.61	15.21	12.73	PMD1209PTB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.24	5.8	4200	77	0.37	48	—	259-1421-ND	18.05	16.52	13.83	PMD2409PTB1-A.(2).GN
	24	10 ~ 27.6	Vapo	0.087	2.1	3000	51.5	0.15	34	—	259-1509-ND	7.33	6.71	5.62	ME92252V1-0000-A99
	24	10 ~ 27.6	Vapo	0.068	1.6	2700	45	0.13	32	—	259-1510-ND	7.33	6.71	5.62	ME92252V2-0000-A99
	24	10 ~ 27.6	Vapo	0.056	1.3	2400	39.5	0.10	28	—	259-1511-ND	7.33	6.71	5.62	ME92252V3-0000-A99
92 x 38	12	6 ~ 13.8	Ball	1.04	12.5	4900	120.2	0.71	57.6	—	259-1423-ND	23.15	21.18	17.73	PMD1209PMB1-A.(2).GN
	24	10 ~ 27.6	Ball	0.51	12.2	4900	120.2	0.71	57.6	—	259-1424-ND	25.57	23.40	19.59	PMD2409PMB1-A.(2).GN
120 x 25	12	6 ~ 13.8	Ball	0.97	11.6	4500	150	0.62	54	—	259-1426-ND	27.33	25.01	20.94	PMD1212PTB1-A.(2).GN
	12	6 ~ 13.8	Vapo	0.455	5.5	3100	108.2	0.28	44.5	—	259-1470-ND	13.14	12.02	10.07	MEC0251V1-0000-A99
	12	6 ~ 13.8	Vapo	0.315	3.8	2700	93	0.22	40.5	—	259-1471-ND	13.14	12.02	10.07	MEC0251V2-0000-A99
	12	6 ~ 13.8	Vapo	0.19	2.3	2200	75	0.16	34	—	259-1472-ND	13.14	12.02	10.07	MEC0251V3-0000-A99
	12	6 ~ 13.8	2 Ball	0.445	5.3	3100	108.2	0.28	44.5	—	259-1479-ND	15.79	14.45	12.10	EEC0251B1-0000-A99
	12	6 ~ 13.8	2 Ball	0.3	3.6	2700	93	0.22	40.5	—	259-1480-ND	15.79	14.45	12.10	EEC0251B2-0000-A99
	12	6 ~ 13.8	2 Ball	0.17	2	2200	75	0.16	34	—	259-1481-ND	15.79	14.45	12.10	EEC0251B3-0000-A99
	24	10 ~ 27.6	Ball	0.47	11.3	4500	150	0.62	54	—	259-1427-ND	28.39	25.98	21.75	PMD2412PTB1-A.(2).GN
	24	10 ~ 27.6	Vapo	0.225	5.4	3100	108.2	0.28	44.5	—	259-1473-ND	14.10	12.90	10.80	MEC0252V1-0000-A99
	24	10 ~ 27.6	Vapo	0.15	3.6	2700	93	0.22	40.5	—	259-1474-ND	14.10	12.90	10.80	MEC0252V2-0000-A99
	24	10 ~ 27.6	Vapo	0.092	2.2	2200	75	0.16	34	—	259-1475-ND	14.10	12.90	10.80	MEC0252V3-0000-A99
	24	10 ~ 27.6	2 Ball	0.21	5	3100	108.2	0.28	44.5	—	259-1482-ND	16.92	15.48	12.96	EEC0252B1-0000-A99
	24	10 ~ 27.6	2 Ball	0.145	3.5	2700	93	0.22	40.5	—	259-1483-ND	16.92	15.48	12.96	EEC0252B2-0000-A99
	24	10 ~ 27.6	2 Ball	0.086	2.1	2200	75	0.16	34	—	259-1484-ND	16.92	15.48	12.96	EEC0252B3-0000-A99
	48	24 ~ 56	Ball	0.25	12.0	4500	150	0.62	54	—	259-1428-ND	29.47	26.97	22.58	PMD4812PTB1-A.(2).GN
	48	24 ~ 56	Vapo	0.125	6	3100	108.2	0.28	44.5	—	259-1476-ND	16.19	14.82	12.41	MEC0254V1-0000-A99
	48	24 ~ 56	Vapo	0.09	4.3	2700	93	0.22	40.5	—	259-1477-ND	16.19	14.82	12.41	MEC0254V2-0000-A99
	48	24 ~ 56	Vapo	0.055	2.6	2200	75	0.16	34	—	259-1478-ND	16.19	14.82	12.41	MEC0254V3-0000-A99
	48	24 ~ 56	2 Ball	0.08	3.8	2700	93	0.22	40.5	—	259-1486-ND	18.78	17.18	14.39	EEC0254B2-0000-A99
	48	30 ~ 56	2 Ball	0.12	5.8	3100	108.2	0.28	44.5	—	259-1485-ND	18.78	17.18	14.39	EEC0254B1-0000-A99
	48	30 ~ 56	2 Ball	0.052	2.5	2200	75	0.16	34	—	259-1487-ND	18.78	17.18	14.39	EEC0254B3-0000-A99
120 x 38	12	6 ~ 13.8	Ball	1.6	19.2	4200	190	0.65	54	—	259-1376-ND	31.44	28.77	24.09	PMD1212PMB1-A.(2).GN
	12	6 ~ 13.8	Ball	1.6	19.2	4200	190	0.65	54	Tac	259-1375-ND	32.50	29.74	24.90	PMD1212PMB1-A.(2).F.GN
	12	6 ~ 13.8	Ball	0.83	10	3400	153	0.43	48	Tac	259-1377-ND	32.50	29.74	24.90	PMD1212PMB3-A.(2).F.GN
	12	6 ~ 13.8	Vapo	0.853	10.2	3000	145	0.32	50	—	259-1438-ND	20.35	18.62	15.59	KDE1212PMV1.13.MS.A.GN
	12	6 ~ 13.8	Vapo	0.845	10.1	3100	138	0.36	48	—	259-1488-ND	14.66	13.42	11.24	MEC0381V1-0000-A99
	12	6 ~ 13.8	Vapo	0.5	6	2600	116	0.26	44	—	259-1489-ND	14.66	13.42	11.24	MEC0381V2-0000-A99
	12	6 ~ 13.8	Vapo	0.27	3.2	2100	93	0.18	37	—	259-1490-ND	14.66	13.42	11.24	MEC0381V3-0000-A99
	12	6 ~ 13.8	2 Ball	0.8	9.6	3100	138	0.36	48	—	259-1497-ND	16.76	15.33	12.84	EEC0381B1-0000-A99
	12	6 ~ 13.8	2 Ball	0.48	5.8	2600	116	0.26	44	—	259-1498-ND	16.76	15.33	12.84	EEC0381B2-0000-A99
	12	6 ~ 13.8	2 Ball	0.255	3.1	2100	93	.18	37	—	259-1499-ND	16.76	15.33	12.84	EEC0381B3-0000-A99
	24	10 ~ 27.6	Vapo	0.415	10	3100	138	0.36	48	—	259-1491-ND	15.96	14.60	12.23	MEC0382V1-0000-A99
	24	10 ~ 27.6	Vapo	0.23	5.5	2600	116	0.26	44	—	259-1492-ND	15.96	14.60	12.23	MEC0382V2-0000-A99
	24	10 ~ 27.6	Vapo	0.135	3.2	2100	93	0.18	37	—	259-1493-ND	15.96	14.60	12.23	MEC0382V3-0000-A99
	24	10 ~ 27.6	2 Ball	0.4	9.6	3100	138	0.36	48	—	259-1500-ND	17.88	16.37	13.70	EEC0382B1-0000-A99
	24	10 ~ 27.6	2 Ball	0.215	5.2	2600	116	0.26	44	—	259-1501-ND	17.88	16.37	13.70	EEC0382B2-0000-A99
	24	10 ~ 27.6	2 Ball	0.13	3.1	2100	93	0.18	37	—	259-1502-ND	17.88	16.37	13.70	EEC0382B3-0000-A99
	48	24 ~ 56	Ball	0.4	19.2	4200	190	0.65	54	—	259-1378-ND	32.85	30.06	25.17	PMD4812PMB1-A.(2).GN
	48	24 ~ 56	Vapo	0.245	11.8	3100	138	0.36	48	—	259-1494-ND	16.76	15.33	12.84	MEC0384V1-0000-A99
	48	24 ~ 56	Vapo	0.14	6.7	2600	116	0.26	44	—	259-1495-ND	16.76	15.33	12.84	MEC0384V2-0000-A99
	48	24 ~ 56	Vapo	0.075	3.6	2100	93	0.18	37	—	259-1496-ND	16.76	15.33	12.84	MEC0384V3-0000-A99
	48	24 ~ 56	2 Ball	0.215	10.3	3100	138	0.36	48	—	259-1503-ND	18.61	17.03	14.26	EEC0384B1-0000-A99
	48	30 ~ 56	2 Ball	0.125	6	2600	116	0.26	44	—	259-1504-ND	18.61	17.03	14.26	EEC0384B2-0000-A99
	48	30 ~ 56	2 Ball	0.07	3.4	2100	93	0.18	37	—	259-1505-ND	18.61	17.03	14.26	EEC0384B3-0000-A99

◆ ***RoHS Compliant*** ***Please Note: Custom Fan Cable Assemblies available upon request***

AC Axial Fans

Fig. 1

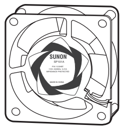

Fig. 2

The best choice for industrial equipment and home appliance. SUNON Axial AC Fans are equipped with a shaded-pole motor, die-cast aluminum frame, and UL94V-0 rated injection molded non-flammable thermoplastic impeller, and is the most reliable AC Fan in the field. SUNON AC Fans are available in both life-lubricated ball bearing systems and oil-impregnated sintered sleeve bearing systems to meet the diverse needs of the market. **Features:** • Frame: Die cast aluminum • Insulation: Class B integral ground system rated at 120°C • Insulation Resistance: 500 Megohms, minimum at 500VDC • Operating Temperature: -10°C ~ 70°C **Applications:** Game Machines, Copy Machines, Medical Equipment, Vending Machines, Packing Equipment, Air Conditioners, Heaters, Manufacturing Equipment and Electric Products.

Fig.	Connection Type	Bearing Type	Rated Voltage	Power (W)	Current (A)	Speed (RPM)	Air Flow (CFM)	Dimensions (mm)	Weight (g)	Digi-Key Part No.	Price Each			Sunon Part No.
											1	10	25	
1	Lead Wires	Vapo	115	3.6/3.6	0.191/0.185	4100/4200	17.5/18	60 x 25	81	259-1429-ND◊	25.17	23.03	19.28	MA1062-HVL.GN
	Lead Wires	Vapo	220 ~ 240	4.1/4.4	0.198/0.211	4100/4200	17.5/18	60 x 25	81	259-1430-ND◊	25.17	23.03	19.28	MA2062-HVL.GN
	Lead Wires	Ball	220 ~ 240	18/16	0.09/0.08	2400/2850	24/31	80 x 38	340	259-1383-ND	20.28	18.56	15.54	SF23080A-2083HBL.GN
	Lead Wires	Sleeve	220 ~ 240	18/16	0.09/0.08	2300/2750	23/30	80 x 38	340	259-1384-ND	16.45	15.05	12.60	SF23080A-2083HSL.GN
	Lead Wires	Ball	115	14/12	0.15/0.13	2400/2850	24/31	80 x 38	340	259-1379-ND	20.28	18.56	15.54	SF11580A-1083HBL.GN
	Lead Wires	Sleeve	115	14/12	0.15/0.13	2300/2750	23/30	80 x 38	340	259-1380-ND	16.45	15.05	12.60	SF11580A-1083HSL.GN
	Lead Wires	Sleeve	115	13/12	0.12/0.11	2250/2750	29/36	92 x 25	280	259-1382-ND	16.29	14.90	12.48	SF11592A-1092HSL.GN
	Terminal	Ball	115	22/20	0.26/0.24	2850/3150	97/117	120 x 38	550	259-1385-ND	22.56	20.64	17.28	SP100A-1123XBT.GN
	Terminal	Sleeve	115	22/20	0.26/0.24	2700/3100	95/115	120 x 38	550	259-1386-ND	17.72	16.22	13.58	SP100A-1123XST.GN
	Terminal	Ball	115	20/18	0.21/0.18	2750/3050	87/107	120 x 38	550	259-1387-ND	22.56	20.64	17.28	SP101A-1123HBT.GN
	Terminal	Sleeve	115	20/18	0.21/0.18	2550/2900	85/105	120 x 38	550	259-1388-ND	13.63	12.47	10.44	SP101A-1123HST.GN
	Terminal	Ball	115	11/11	0.13/0.11	2150/2300	72/78	120 x 38	550	259-1389-ND	22.56	20.64	17.28	SP103A-1123LBT.GN
	Terminal	Sleeve	115	11/11	0.11/0.13	2200/2000	76/70	120 x 38	550	259-1390-ND	17.72	16.22	13.58	SP103A-1123LST.GN
	Terminal	Ball	220 ~ 240	22/21	0.14/0.12	2850/3150	97/117	120 x 38	550	259-1433-ND	22.56	20.64	17.28	DP200A-2123XBT.GN
	Terminal	Ball	220 ~ 240	20/19	0.125/0.11	2750/3050	87/107	120 x 38	550	259-1434-ND	22.56	20.64	17.28	DP201A-2123HBT.GN
2	Terminal	Ball	220 ~ 240	25/26	0.11/0.11	2800/3200	203/239	171 x 151 x 51	908	259-1311-ND	56.61	51.80	43.37	A2175-HBT.TC.GN
	Lead Wires	Ball	115	25/27	0.22/0.23	2800/3200	203/239	171 x 151 x 51	908	259-1306-ND	56.61	51.80	43.37	A1175-HBL.TC.GN
	Terminal	Ball	115	25/27	0.22/0.23	2800/3200	203/239	171 x 151 x 51	908	259-1307-ND	56.61	51.80	43.37	A1175-HBT.TC.GN

◊ PBT Plastic Frame ***Please Note: Custom Fan Cable Assemblies available upon request***

SUNON

Blowers

Features:

- Exceptional cooling performance, radiating blower with one directional exhaust
- Low noise via highly efficient fan blade design
- Low power consumption and high motor efficiency through radial gap type motor design
- Operating Temperature: 0°C ~ 70°C

Fig. 1

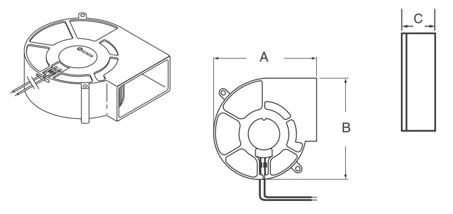

Fig. 2

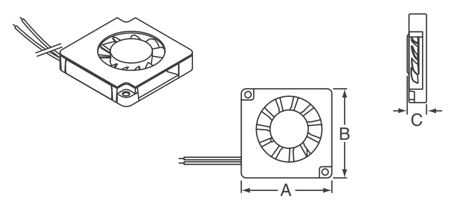

Fig.	Dimensions (mm) A x B x C	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each 1	10	25	Sunon Part No.
						Power Motor Blowers — RoHS Compliant									
1	75 x 75 x 30	12	6 ~ 13.8	Ball	0.300	3.60	3400	13.60	0.60	43.5	259-1365-ND‡	19.01	17.40	14.57	PMB1275PNB1-AY.(2).GN
	75 x 75 x 30	12	6 ~ 13.8	Ball	0.130	1.60	2400	9.60	0.27	33.9	259-1366-ND‡	19.01	17.40	14.57	PMB1275PNB3-AY.(2).GN
	97 x 94 x 33	12	6 ~ 12	Ball	0.720	8.60	3600	30.50	0.92	55.8	259-1367-ND‡	26.39	24.15	20.22	PMB1297PYB1-AY.(2).GN
	120 x 120 x 32	12	6 ~ 13.8	Ball	0.820	9.80	2500	35.90	0.89	53.8	259-1363-ND‡	30.46	27.87	23.33	PMB1212PLB2-A.(2)GN
						MagLev® Green Motor Blowers									
1	50 x 50 x 15	12	6 ~ 13.8	Vapo	0.170	2.00	6000	4.70	0.97	42.2	259-1316-ND◆‡	10.88	9.96	8.34	GB1205PHVX-8AY.GN
	50 x 50 x 15	12	6 ~ 13.8	Vapo	0.060	0.70	4000	3.00	0.40	33.4	259-1315-ND◆‡	10.88	9.96	8.34	GB1205PHV2-8AY.GN
	50 x 50 x 20	12	6 ~ 13.8	Vapo	0.124	1.50	5200	5.70	0.66	35.0	259-1317-ND◆‡	10.88	9.96	8.34	GB1205PKV1-8AY.GN
	50 x 50 x 20	12	5 ~ 13.8	Vapo	0.090	1.10	4400	4.80	0.46	30.0	259-1294-ND‡	11.39	10.68	8.73	GB1205PKV3-8AY
	60 x 60 x 15	12	6 ~ 13.8	Vapo	0.105	1.3	4800	5.2	0.44	40.5	259-1455-ND◆†	11.28	10.32	8.64	GB1206PHV1-AY.GN
	60 x 60 x 15	12	6 ~ 13.8	Vapo	0.04	0.5	3200	3.5	0.18	29.0	259-1456-ND◆†	11.28	10.32	8.64	GB1206PHV3-AY.GN
2	25 x 25 x 10	5	3.5 ~ 6	Vapo	0.090	0.5	12000	1.00	0.30	32.0	259-1444-ND◆‡	17.08	15.64	13.09	GB0502PFV1-8.B2393.GN
	45 x 45 x 9	5	3 ~ 6	Vapo	0.070	0.35	5500	2.20	0.26	29.0	259-1446-ND◆†	22.33	20.43	17.10	GB0545AFV1-8.B1824.GN

◆ ***RoHS Compliant*** ‡ Plastic Housing (Fan Blades - PBT 94V-O) † Aluminum Housing (Fan Blades - PBT 94V-O) ***Please Note: Custom Fan Cable Assemblies available upon request***

COPAL ELECTRONICS

RoHS COMPLIANT

Brushless DC Fans

Copal Electronics manufactures a range of Brushless DC Fans in 16mm through 62mm sizes. Designed for applications in portable electronic equipment, automotive and medical equipment; these fans are ideal for cooling a specific area on a PCB or in an electronic assembly where space is limited.

Features:

- Patented impeller design which improves airflow and reduces vibration
- Low noise of 3dBA ~ 24dBA
- Long life ball and/or sleeve bearing designs
- Frame and impeller made of lightweight UL94V-0 ABS/PBT alloy

Specifications:

- Operating Temperature: -10°C ~ 60°C
- Storage Temperature: -30°C ~ 70°C

Fig. 1

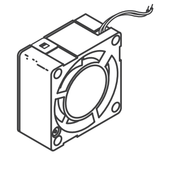

Fig. 2

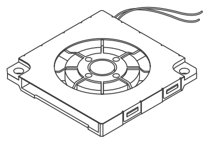

Fig.	Dimensions (mm)	Bearing Type	Operating Voltage (VDC)	Current (A)	Air Flow (CFM)	Noise (dBA)	Digi-Key Part No.	Price Each 1	10	25	Copal Electronics Part No.
1	16 x 16 x 4	Sleeve	3.3	.02	.424	3	563-1106-ND	11.16	10.21	8.55	F16EA-03LLC /E
	16 x 16 x 4.5	Sleeve	5	.04	.424	3	563-1107-ND	11.16	10.21	8.55	F16FB-05LLC /E
	17 x 17 x 8	Sleeve	5	.03	.530	7	563-1108-ND	12.42	11.36	9.52	F17HA-05MC
	25 x 25 x 10	Sleeve	5	.05	1.41	11	563-1111-ND	10.67	9.77	8.18	F251R-05LLC
	25 x 25 x 10	Sleeve	12	.03	1.41	11	563-1115-ND	10.67	9.77	8.18	F251R-12LLC
	25 x 25 x 10	Sleeve	12	.02	1.24	9	563-1117-ND	10.67	9.77	8.18	F251R-12L3C
	25 x 25 x 10	Sleeve	12	.08	1.62	12	563-1121-ND	10.67	9.77	8.18	F251T-12LLC
	25 x 25 x 10	Sleeve	5	.06	1.77	15	563-1109-ND	13.02	11.92	9.98	F251R-05LB
	25 x 25 x 10	1 Sleeve/1 Ball	5	.05	1.41	11	563-1110-ND	13.02	11.92	9.98	F251R-05LLB
	25 x 25 x 10	1 Sleeve/1 Ball	5	.04	1.24	9	563-1112-ND	13.02	11.92	9.98	F251R-05L3B
	25 x 25 x 10	1 Sleeve/1 Ball	5	.05	1.41	11	563-1119-ND	13.02	11.92	9.98	F251RF-05LLB
	25 x 25 x 10	1 Sleeve/1 Ball	12	.05	2.12	20	563-1113-ND	13.02	11.92	9.98	F251R-12MB
	25 x 25 x 10	1 Sleeve/1 Ball	12	.03	1.41	11	563-1114-ND	13.02	11.92	9.98	F251R-12LLB
	25 x 25 x 10	1 Sleeve/1 Ball	12	.02	1.24	9	563-1116-ND	13.02	11.92	9.98	F251R-12L3B
	25 x 25 x 10	1 Sleeve/1 Ball	12	.04	1.77	15	563-1118-ND	13.02	11.92	9.98	F251R-12LB
	25 x 25 x 10	1 Sleeve/1 Ball	12	.03	1.41	11	563-1120-ND	13.02	11.92	9.98	F251RF-12LLB
	30 x 30 x 10	Sleeve	5	.07	3.18	17	563-1123-ND	10.67	9.77	8.18	F310R-05LC
	30 x 30 x 10	Sleeve	5	.05	2.12	13	563-1124-ND	10.67	9.77	8.18	F310R-05LLC
	30 x 30 x 10	Sleeve	12	.04	3.18	17	563-1126-ND	10.67	9.77	8.18	F310R-12LC
	30 x 30 x 10	Sleeve	12	.025	2.12	13	563-1127-ND	10.67	9.77	8.18	F310R-12LLC
	30 x 30 x 10	1 Sleeve/1 Ball	5	.07	3.18	17	563-1122-ND	13.02	11.92	9.98	F310R-05LB
	30 x 30 x 10	1 Sleeve/1 Ball	5	.07	3.18	17	563-1128-ND	13.02	11.92	9.98	F310RF-05LB
	30 x 30 x 10	1 Sleeve/1 Ball	12	.04	3.18	17	563-1125-ND	13.02	11.92	9.98	F310R-12LB
	30 x 30 x 10	1 Sleeve/1 Ball	12	.04	3.18	17	563-1129-ND	13.02	11.92	9.98	F310RF-12LB
	40 x 40 x 10	Sleeve	5	.08	3.88	12	563-1130-ND	10.36	9.48	7.94	F410T-05LC
	40 x 40 x 10	Sleeve	5	.12	5.30	18	563-1132-ND	10.36	9.48	7.94	F410T-05MC
	40 x 40 x 10	Sleeve	12	.04	3.88	12	563-1131-ND	10.36	9.48	7.94	F410T-12LC
	40 x 40 x 10	Sleeve	12	.06	5.30	18	563-1133-ND	10.36	9.48	7.94	F410T-12MC
	41 x 41 x 12.2	1 Sleeve/1 Ball	5	.08	3.88	16	563-1135-ND	11.96	10.94	9.16	F412R-05LB
	41 x 41 x 12.2	1 Sleeve/1 Ball	5	.10	5.30	23	563-1138-ND	11.96	10.94	9.16	F412R-05MB
	41 x 41 x 12.2	1 Sleeve/1 Ball	12	.04	3.53	14	563-1134-ND	11.96	10.94	9.16	F412R-12LLB
	41 x 41 x 12.2	1 Sleeve/1 Ball	12	.04	3.88	16	563-1136-ND	11.96	10.94	9.16	F412R-12LB
	41 x 41 x 12.2	1 Sleeve/1 Ball	12	.06	5.30	23	563-1139-ND	11.96	10.94	9.16	F412R-12MB
	41 x 41 x 12.2	1 Sleeve/1 Ball	24	.03	3.88	16	563-1137-ND	11.96	10.94	9.16	F412R-24LB
	41 x 41 x 12.2	1 Sleeve/1 Ball	24	.04	5.30	23	563-1140-ND	11.96	10.94	9.16	F412R-24MB
2	45 x 45 x 5	Sleeve	5	.14	1.06	23	563-1141-ND	25.49	23.32	19.53	F455B-05MD

ebmpapst Fans

Drawings shown are a general representation only. For datasheets, please see Digi-Key's website.

Most electronic systems create heat which needs to be removed. Blowers and fans are the most reliable, efficient way to control heat rise in electronic equipment. EBM's Tubeaxial fans come in many sizes and fan speeds and are the most widely used form of cooling. Blowers move larger amounts of air where air drawn in is at a 90° angle from airflow exit. Impellers are the latest cooling types with higher efficiencies and one of the quietest performance of all types.

Fig. 1

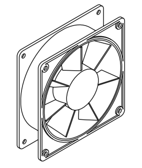

Fig. 2

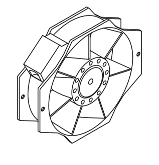

Fig. 3

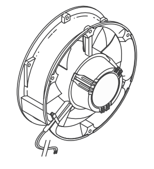

Fig. 4

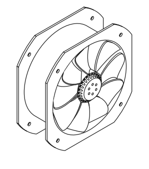

Fig. 5

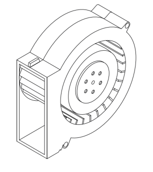

Fig. 6

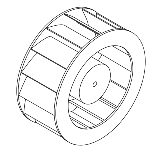

Fig.	Dimensions (mm)	Voltage		Power (Watt)	CFM @ 0	Noise dB(A)	Bearing Type	Connection Type	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
		Nominal	Range							1	25	50	100	
ACmaxx Tubeaxial Fans — RoHS Compliant ‡														
1	92 x 38	115/230	—	11	86	55	Ball	22 AWG 17.7" Leads	381-2284-ND	74.38	56.97	52.23	45.90	AC3200JH
	119 x 32	115/230	—	11	120	51	Ball	22 AWG 17.7" Leads	381-2285-ND	65.45	50.13	45.96	40.39	AC4300H
2	178 x 165 x 51	115/230	85 ~ 265	13.5	206	50	Ball	22 AWG 17.7" Leads	381-2288-ND	99.99	76.59	70.21	61.70	AC6100NM
3	171.5 x 50.8	115/230	—	14	206	50	Ball	22 AWG 17.7" Leads	381-2286-ND	107.04	81.99	75.16	66.05	AC6200NM
AC Tubeaxial Fans — RoHS Compliant ‡														
1	80 x 38	115	—	8	21.2	21	Sintec	18 AWG 12.2" Leads	381-1057-ND	42.65	32.67	29.95	26.32	8830N
	80 x 38	115	—	11	27.7	28	Sintec	18 AWG 12.2" Leads	381-1106-ND	43.12	33.03	30.28	26.61	8800N
	80 x 38	115	—	11	34	41	Sintec	.110" x .02" Terminals	381-1051-ND	45.00	34.47	31.60	27.77	8500A
	80 x 38	115	—	11	35.9	34	Sintec	18 AWG 12.2" Leads	381-1103-ND	39.25	30.06	27.56	24.22	8500N
	80 x 38	115	—	11	35.9	34	Sintec	18 AWG 12.2" Leads	381-1102-ND	44.42	34.02	31.19	27.41	8500DP
	80 x 38	230	—	12	29.4	30	Sintec	18 AWG 12.2" Leads	381-1105-ND	39.01	29.88	27.39	24.07	8550N
	80 x 38	115	—	11	35.9	35	Ball	22 AWG 12.2" Leads	381-1104-ND	46.77	35.82	32.84	28.86	8506N
	80 x 38	115	—	11	36	35	Ball	22 AWG 12.2" Leads	381-1053-ND	50.17	38.43	35.23	30.96	8506VW
	92 x 25	115	—	9	41.2	40	Ball	.110" x .02" Terminals	381-1076-ND	42.65	32.67	29.95	26.32	3906
	92 x 38	115	—	11	52.4	42	Ball	18 AWG 12.2" Leads	381-1075-ND	51.94	39.78	36.47	32.05	3606
	119 x 25	115	—	8	58.9	34.5	Ball	.110" x .02" Terminals	381-1107-ND	46.06	35.28	32.34	28.42	9906L
	119 x 25	115	—	12	79.5	42	Ball	.110" x .02" Terminals	381-1078-ND	46.06	35.28	32.34	28.42	9906
	119 x 25	230	—	14	68.9	37	Ball	.110" x .02" Terminals	381-1079-ND	46.06	35.28	32.34	28.42	9956
	119 x 38	115	—	12	70.6	32	Sintec	.110" x .02" Terminals	381-1026-ND	46.06	35.28	32.34	28.42	4530Z
	119 x 38	230	—	19	94.2	40	Sintec	.110" x .02" Terminals	381-1033-ND	41.60	31.86	29.21	25.67	4650Z
	119 x 38	230	—	19	94.2	40	Ball	.110" x .02" Terminals	381-1035-ND	50.17	38.43	35.23	30.96	4656Z
	119 x 38	115	—	18	105.9	50	Sintec	.110" x .02" Terminals	381-1089-ND	37.95	29.07	26.65	23.42	4600N
	119 x 38	115	—	18	106	50	Sintec	.110" x .02" Terminals	381-1090-ND	37.95	29.07	26.65	23.42	4600X
	119 x 38	230	—	19	94.2	46	Sintec	.110" x .02" Terminals	381-1093-ND	37.95	29.07	26.65	23.42	4650N
	119 x 38	230	—	18	106	50	Sintec	.110" x .02" Terminals	381-1094-ND	37.95	29.07	26.65	23.42	4650X
	119 x 38	115	—	18	105.9	51	Ball	.110" x .02" Terminals	381-1091-ND	45.71	35.01	32.10	28.21	4606N
	119 x 38	230	—	18	106	51	Ball	.110" x .02" Terminals	381-1095-ND	47.82	36.63	33.58	29.51	4656X
	119 x 38	115	—	18	105.9	45	Sintec	.110" x .02" Terminals	381-1029-ND	40.77	31.23	28.63	25.16	4600Z
	119 x 38	115	—	18	105.9	45	Ball	.110" x .02" Terminals	381-1031-ND	49.94	38.25	35.07	30.82	4606Z
	119 x 38	115	—	18	105.9	45	Ball	22 AWG 12.2" Leads	381-1092-ND	52.52	40.23	36.88	32.41	4606ZW
	127 x 38	115	—	17	121.2	47	Ball	.110" x .02" Terminals	381-1119-ND	54.29	41.58	38.12	33.50	5908-105
2	150 x 55	115	—	38	223.6	53	Ball	20 AWG 13" Leads	381-1121-ND	92.00	70.47	64.60	56.77	W2S130-AA25-01
	150 x 55	115	—	46	250.1	62	Ball	20 AWG 13" Leads	381-1124-ND	92.00	70.47	64.60	56.77	W2S130-BM15-01
	172 x 51	230	—	29	294.2	58	Ball	PSC 0.11" Terminals	381-1066-ND	153.46	117.54	107.75	94.69	W2E143-AB09-01
	172 x 150 x 38	230	—	28	230	57	Ball	0.11" Terminals	381-1062-ND	110.10	84.33	77.31	67.94	W2E142-BB01-01
	172 x 150 x 38	115	—	24	230	57	Ball	0.11" Terminals	381-1063-ND	72.73	55.71	51.07	44.88	W2E142-BB05-01
	172 x 51	115	—	26	258.9	60	Ball	.110" x .02" Terminals	381-1065-ND	103.41	79.22	72.61	63.81	W2E143-AA15-01
	172 x 51	115	—	29	294.2	58	Ball	.110" x .02" Terminals	381-1067-ND	153.46	117.54	107.75	94.69	W2E143-AB15-01
4	225 x 80	115	—	80	606	61	Ball	Terminal Block	381-2281-ND	197.99	151.65	139.02	122.17	W2E200-HK86-01
	280 x 280 x 80	230	—	200	1100	73	Ball	Terminal Block	381-2322-ND	256.97	196.83	180.43	158.56	W2E250-HJ28-01
DC Tubeaxial Fans — RoHS Compliant														
1	80 x 38	24	12 ~ 27.6	25	112	66	Ball	24 AWG 12.2" Leads	381-2313-ND	61.81	47.34	43.40	38.14	8214J/2H3
	80 x 38	24	12 ~ 27.6	38	131	71	Ball	24 AWG 12.2" Leads	381-2314-ND	66.51	50.94	46.70	41.04	8214J/2H4
	80 x 38	48	20 ~ 58	36	131	71	Ball	24 AWG 12.2" Leads	381-2315-ND	66.51	50.94	46.70	41.04	8218J/2H4
	92 x 38	12	6 ~ 13.8	50	165	73	Ball	24 AWG 12.2" Leads	381-2305-ND	76.38	58.50	53.63	47.13	3212J/2H4P
	92 x 38	24	12 ~ 27.6	30	140	69	Ball	24 AWG 12.2" Leads	381-2307-ND	57.69	44.19	40.51	35.60	3214JH3
	92 x 38	24	12 ~ 27.6	50	165	73	Ball	24 AWG 12.2" Leads	381-2309-ND	74.38	56.97	52.23	45.90	3214J/2H4P
	92 x 38	48	20 ~ 58	30	140	69	Ball	24 AWG 12.2" Leads	381-2310-ND	57.69	44.19	40.51	35.60	3218JH3
	92 x 38	48	20 ~ 58	50	165	73	Ball	24 AWG 12.2" Leads	381-2312-ND	74.38	56.97	52.23	45.90	3218J/2H4P
	119 x 25	12	7 ~ 13	12	132.4	55	Sintec	22 AWG 12.2" Leads	381-2301-ND	58.16	44.55	40.84	35.89	4412FNH
	119 x 25	24	18 ~ 26	12	132.4	55	Ball	22 AWG 12.2" Leads	381-2303-ND	58.16	44.55	40.84	35.89	4414FNH
	119 X 38	24	16 ~ 28	15	140	61	Ball	.110" x .03" Terminals	381-2323-ND	84.72	64.89	59.49	52.28	W2G110-AK43-31
	119 x 38	24	16 ~ 30	90	294	76	Ball	20 AWG 12.2" Leads	381-2289-ND†	150.64	115.38	105.77	92.95	4114N/2H7P
	119 x 38	24	16 ~ 30	120	336	78	Ball	20 AWG 12.2" Leads	381-2290-ND†	150.64	115.38	105.77	92.95	4114N/2H8P
	119 x 38	48	36 ~ 60	42	229.5	70	Ball	22 AWG 12.2" Leads	381-2291-ND	79.55	60.93	55.86	49.09	4118NH5
	119 x 38	48	36 ~ 60	55	259	73	Ball	22 AWG 12.2" Leads	381-2292-ND	86.48	66.24	60.72	53.36	4118NH6
	119 x 38	48	36 ~ 60	120	336	78	Ball	20 AWG 12.2" Leads	381-2294-ND†	150.64	115.38	105.77	92.95	4118N/2H8P
	140 x 51	48	36 ~ 72	41	241.3	70	Ball	22 AWG 12.2" Leads	381-2298-ND	174.02	133.29	122.19	107.38	5318/2TDHP
2	172 x 51	12	8 ~ 16	41	353.1	64	Ball	20 AWG 14.37" Leads	381-2316-ND	165.21	126.54	116.00	101.94	6312/2TDHP
	172 x 51	24	16 ~ 36	67	417.9	69	Ball	20 AWG 14.37" Leads	381-2317-ND	182.83	140.04	128.37	112.81	6314/2TDHHP
	172 x 51	24	16 ~ 36	41	353.1	64	Ball	20 AWG 14.37" Leads	381-2318-ND	176.13	134.91	123.67	108.68	6314/2TDHP
	172 x 51	48	36 ~ 72	150	559.1	75	Ball	20 AWG 14.37" Leads	381-2319-ND	224.43	171.90	157.58	138.48	6318/2TDH4P
	172 x 51	48	36 ~ 72	67	417.9	69	Ball	20 AWG 14.37" Leads	381-2320-ND	182.83	140.04	128.37	112.81	6318/2TDHHP
AC Flatpak Blowers — RoHS Compliant ‡														
5	121 x 37	115	—	19.5	24.7	60	Sleeve	18 AWG 12.2" Leads	381-1058-ND	58.99	45.18	41.42	36.40	RL90-18/00
	121 x 37	230	—	20	23.5	60	Sleeve	18 AWG 12.2" Leads	381-1061-ND	67.33	51.57	47.28	41.55	RL90-18/50
Brushless DC Tubeaxial Fans														
1	40 x 10	12	10 ~ 14	0.8	5.3	26	Sleeve	28 AWG 12.2" Leads	381-1081-ND◆	14.10	10.80	9.90	8.70	412FH
	40 x 10	24	20 ~ 28	0.8	4.7	22	Sleeve	28 AWG 12.2" Leads	381-1082-ND◆	14.34	10.98	10.07	8.85	414F
	40 x 20	12	10 ~ 14	1.0	5.9	18	Sleeve	28 AWG 12.2" Leads	381-1069-ND◆	14.34	10.98	10.07	8.85	412
	40 x 20	24	20 ~ 28	1.0	5.9	18	Sleeve	28 AWG 12.2" Leads	381-1070-ND◆	16.22	12.42	11.39	10.01	414
	40 x 25	12	8 ~ 14	3.3	14	46	Ball	28 AWG 12.2" Leads	381-1125-ND◆	37.48	28.71	26.32	23.13	412JHH
	40 x 25	24	18 ~ 27	3.6	14	46	Ball	28 AWG 12.2" Leads	381-1126-ND◆	37.48	28.71	26.32	23.13	414JHH
	60 x 25	12	8 ~ 15	.53	12.4	22	Ball	22 AWG 12.2" Leads	381-2266-ND◆	29.61	22.68	20.79	18.27	622L
	60 x 25	12	8 ~ 15	2.3	27.1	39	Ball	22 AWG 12.2" Leads	381-2264-ND◆	31.26	23.94	21.95	19.29	622H
	60 x 25	12	8 ~ 15	3.5	33	43	Ball	22 AWG 12.2" Leads	381-2265-ND◆	31.26	23.94	21.95	19.29	622HH
	60 x 25	24	18 ~ 28	1	12.4	22	Ball	22 AWG 12.2" Leads	381-2270-ND◆	29.61	22.68	20.79	18.27	624L

◆ ***RoHS Compliant*** † PWM Fan ‡ ***Please Note: AC Cords not included, please refer to index – Fans/Blowers.***

(Continued)

Fig.	Dimensions (mm)	Voltage		Power (Watt)	CFM @ 0	Noise dB(A)	Bearing Type	Connection Type	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
		Nominal	Range							1	25	50	100	
1	60 x 25	24	18 ~ 28	1.5	17.7	29	Ball	22 AWG 12.2" Leads	381-2271-ND◆	29.61	22.68	20.79	18.27	624M
	60 x 25	24	18 ~ 28	2.2	23.5	36	Ball	22 AWG 12.2" Leads	381-2272-ND◆	29.61	22.68	20.79	18.27	624N
	60 x 25	24	18 ~ 28	2.3	27.1	39	Ball	22 AWG 12.2" Leads	381-2268-ND◆	31.26	23.94	21.95	19.29	624H
	60 x 25	24	18 ~ 28	3.6	33	43	Ball	22 AWG 12.2" Leads	381-2269-ND◆	31.26	23.94	21.95	19.29	624HH
	60 x 32	12	7 ~ 13.6	7.7	41.1	53	Ball	24 AWG 12.2" Leads	381-2282-ND◆	40.54	31.05	28.47	25.02	612JH
	60 x 32	24	14 ~ 26.4	7.7	41.1	53	Ball	24 AWG 12.2" Leads	381-2283-ND◆	40.54	31.05	28.47	25.02	614JH
	70 x 15	12	8 ~ 13.8	1.7	26	36	Sintec	28 AWG 12.2" Leads	381-1128-ND◆	29.61	22.68	20.79	18.27	712F
	70 x 15	24	12 ~ 30	1.7	26	36	Sintec	28 AWG 12.2" Leads	381-1127-ND◆	29.61	22.68	20.79	18.27	714F
	80 x 25	12	7 ~ 15	0.8	21	21	Ball	24 AWG 12.2" Leads	381-1101-ND◆	23.37	17.91	16.41	14.43	8412L
	80 x 25	12	7 ~ 15	1.4	27	29	Ball	24 AWG 12.2" Leads	381-1049-ND◆	23.37	17.91	16.41	14.43	8412M
	80 x 25	12	8 ~ 13.2	2.2	46.5	37	Ball	24 AWG 12.2" Leads	381-2335-ND◆ ***NEW!***	22.68	17.37	15.93	14.00	8412NH
	80 x 25	12	8 ~ 13.2	2.2	46.5	37	Sintec	24 AWG 12.2" Leads	381-2338-ND◆ ***NEW!***	21.86	16.74	15.35	13.49	8412NGH
	80 x 25	12	8 ~ 15	0.6	19	12	Sintec	24 AWG 12.2" Leads	381-2337-ND◆ ***NEW!***	18.33	14.04	12.87	11.31	8412NGL
	80 x 25	12	8 ~ 15	0.9	27	21	Ball	24 AWG 12.2" Leads	381-2332-ND◆ ***NEW!***	22.68	17.37	15.93	14.00	8412NML
	80 x 25	12	8 ~ 15	1.3	34	26	Sintec	24 AWG 12.2" Leads	381-2336-ND◆ ***NEW!***	21.86	16.74	15.35	13.49	8412NGM
	80 x 25	12	8 ~ 15	1.3	34	27	Ball	24 AWG 12.2" Leads	381-2333-ND◆ ***NEW!***	27.03	20.70	18.98	16.68	8412NM
	80 x 25	24	12 ~ 28	1.4	27	29	Ball	24 AWG 12.2" Leads	381-1050-ND◆	24.47	18.75	17.19	15.10	8414M
	80 x 25	24	12 ~ 28	2.4	33	35	Ball	24 AWG 12.2" Leads	381-1011-ND◆	24.47	18.75	17.19	15.10	8414
	80 x 25	24	18 ~ 28	0.7	19.4	17	Ball	24 AWG 12.2" Leads	381-2326-ND◆ ***NEW!***	27.03	20.70	18.98	16.68	8414NL
	80 x 25	24	18 ~ 28	1.1	26.5	19	Sintec	24 AWG 12.2" Leads	381-2328-ND◆ ***NEW!***	21.86	16.74	15.35	13.49	8414NGML
	80 x 25	24	18 ~ 28	1.4	34.1	26	Sintec	24 AWG 12.2" Leads	381-2329-ND◆ ***NEW!***	18.33	14.04	12.87	11.31	8414NGM
	80 x 25	24	18 ~ 28	1.4	34.1	27	Ball	24 AWG 12.2" Leads	381-2325-ND◆ ***NEW!***	22.68	17.37	15.93	14.00	8414NM
	80 x 25	24	18 ~ 28	2	40.6	32	Ball	24 AWG 12.2" Leads	381-2331-ND◆ ***NEW!***	25.73	19.71	18.07	15.88	8414N
	80 x 25	24	18 ~ 28	2.4	46.5	37	Ball	24 AWG 12.2" Leads	381-2327-ND◆ ***NEW!***	22.68	17.37	15.93	14.00	8414NH
	80 x 25	24	18 ~ 28	2.4	46.5	37	Sintec	24 AWG 12.2" Leads	381-2330-ND◆ ***NEW!***	21.86	16.74	15.35	13.49	8414NGH
	80 x 32	12	6 ~ 15	1.8	28	34	Ball	22 AWG 12.2" Leads	381-1048-ND◆	33.84	25.92	23.76	20.88	8312M
	80 x 32	12	6 ~ 15	2.2	32	36	Ball	22 AWG 12.2" Leads	381-1008-ND◆	33.84	25.92	23.76	20.88	8312
	80 x 32	12	6 ~ 15	4	39	43	Ball	22 AWG 12.2" Leads	381-1133-ND◆	33.84	25.92	23.76	20.88	8312HL
	80 x 32	48	36 ~ 56	2.6	32	36	Ball	22 AWG 12.2" Leads	381-1077-ND◆	33.84	25.92	23.76	20.88	8318
	80 x 38	12	7 ~ 13.8	10	77.7	55	Ball	24 AWG 12.2" Leads	381-2273-ND◆	46.53	35.64	32.67	28.71	8212JN
	80 x 38	12	8 ~ 16	3	35	39	Ball	22 AWG 12.2" Leads	381-1100-ND◆	60.62	46.44	42.57	37.41	8112K
	80 x 38	24	18 ~ 26.4	10	77.7	55	Ball	24 AWG 12.2" Leads	381-2274-ND◆	46.53	35.64	32.67	28.71	8214JN
	92 x 25	12	7 ~ 15	1.3	36	27	Ball	24 AWG 12.2" Leads	381-1080-ND◆	24.67	18.90	17.33	15.23	3412L
	92 x 25	12	7 ~ 15	1.8	42	32	Ball	24 AWG 12.2" Leads	381-1012-ND◆	24.67	18.90	17.33	15.23	3412M
	92 x 25	12	8 ~ 13.2	3.2	60	39	Sintec	24 AWG 12.2" Leads	381-2341-ND◆ ***NEW!***	24.32	18.63	17.08	15.01	3412NGHH
	92 x 25	12	8 ~ 15	1.2	36	23	Ball	24 AWG 12.2" Leads	381-2340-ND◆ ***NEW!***	28.55	21.87	20.05	17.62	3412NL
	92 x 25	12	8 ~ 15	1.6	42	28	Ball	24 AWG 12.2" Leads	381-2339-ND◆ ***NEW!***	28.55	21.87	20.05	17.62	3412NM
	92 x 25	12	8 ~ 15	2.2	49.4	32	Sintec	24 AWG 12.2" Leads	381-2342-ND◆ ***NEW!***	23.27	17.82	16.34	14.36	3412NG
	92 x 25	12	8 ~ 15	2.2	49.4	32	Ball	24 AWG 12.2" Leads	381-2343-ND◆ ***NEW!***	27.14	20.79	19.06	16.75	3412N
	92 x 25	24	12 ~ 28	2.6	49	36	Ball	24 AWG 12.2" Leads	381-1001-ND◆	20.87	15.99	14.66	12.88	3414
	92 x 25	24	18 ~ 28	2.3	49.4	32	Ball	24 AWG 12.2" Leads	381-1160-ND◆	29.61	22.68	20.79	18.27	3414N
	92 x 32	12	6 ~ 15	2.4	47	37	Ball	22 AWG 12.2" Leads	381-1073-ND◆	34.08	26.10	23.93	21.03	3312
	92 x 32	24	12 ~ 28	2.4	47	37	Ball	22 AWG 12.2" Leads	381-1074-ND	34.08	26.10	23.93	21.03	3314
	119 x 25	12	7 ~ 14	3.2	82	38	Ball	22 AWG 12.2" Leads	381-1024-ND◆	32.55	24.93	22.86	20.09	4412FM
	119 x 25	24	12 ~ 28	3.2	82	38	Ball	22 AWG 12.2" Leads	381-1025-ND◆	34.08	26.10	23.93	21.03	4414FM
	119 x 32	12	6 ~ 15	2.6	82	39	Ball	22 AWG 12.2" Leads	381-1021-ND◆	35.13	26.91	24.67	21.68	4312M
	119 x 32	12	6 ~ 15	5	100	45	Ball	22 AWG 12.2" Leads	381-1002-ND◆	35.13	26.91	24.67	21.68	4312
	119 x 32	12	6 ~ 15	5	100.1	45	Ball	22 AWG 12.2" Leads	381-2263-ND◆	37.48	28.71	26.32	23.13	4312/2
	119 x 32	24	12 ~ 28	2.6	82	39	Ball	22 AWG 12.2" Leads	381-1023-ND◆	35.13	26.91	24.67	21.68	4314M
	119 x 32	24	12 ~ 28	5	100	45	Ball	22 AWG 12.2" Leads	381-1003-ND◆	35.13	26.91	24.67	21.68	4314
	119 x 32	48	36 ~ 53	5	100	45	Ball	22 AWG 12.2" Leads	381-1004-ND◆	39.01	29.88	27.39	24.07	4318
	119 x 38	12	7 ~ 15	4.5	106	49	Ball	.110" x .02" Terminals	381-1014-ND◆	50.41	38.61	35.40	31.11	4182NX
	119 x 38	12	7 ~ 14.5	5.3	108	49	Ball	22 AWG 12.2" Leads	381-1084-ND◆	46.30	35.46	32.51	28.57	4212H
	119 x 38	12	7 ~ 15	21	162	60	Ball	22 AWG 12.2" Leads	381-1142-ND	139.71	107.01	98.10	86.21	DV4112/2NP-3021
	119 x 38	24	12 ~ 28	5.3	108	49	Ball	22 AWG 12.2" Leads	381-1085-ND◆	46.30	35.46	32.51	28.57	4214H
	119 x 38	24	12 ~ 29	4.5	106	49	Ball	.110" x .02" Terminals	381-1015-ND◆	58.16	44.55	40.84	35.89	4184NX
	119 x 38	24	12 ~ 25	11	140	59	Ball	.110" x .02" Terminals	381-1134-ND◆	61.57	47.16	43.23	37.99	4184NXH
	119 x 38	24	16 ~ 30	19.5	182.4	65	Ball	22 AWG 12.2" Leads	381-1161-ND◆	73.79	56.52	51.81	45.53	4114NH3
	119 x 38	24	16 ~ 30	21	161.9	60	Ball	22 AWG 12.2" Leads	381-2276-ND◆	98.70	75.60	69.30	60.90	DV4114N
	119 x 38	48	36 ~ 56	5.6	108	49	Ball	.110 x .02" Terminals	381-1087-ND◆	52.76	40.41	37.05	32.56	4298H
	119 x 38	48	36 ~ 56	19.5	182.4	65	Ball	22 AWG 12.2" Leads	381-1162-ND◆	75.32	57.69	52.89	46.48	4118N/2H3
	127 x 38	12	8 ~ 16	4.5	118	44	Ball	.110" x .02" Terminals	381-1115-ND◆	67.56	51.75	47.44	41.69	W2G115-AD15-13
	127 x 38	12	7 ~ 14	6	127	46	Ball	22 AWG 12.2" Leads	381-1131-ND◆	53.58	41.04	37.62	33.06	5212NN
	127 x 38	12	12 ~ 28	6	127	46	Ball	22 AWG 12.2" Leads	381-1132-ND◆	53.58	41.04	37.62	33.06	5214NN
	127 x 38	24	16 ~ 28	12	160	52	Ball	.110" x .02" Terminals	381-1068-ND◆	95.06	72.81	66.75	58.66	W2G115-AG71-12
2	172 x 51	24	12 ~ 28	18	241	57	Ball	.118" x .02" Terminals	381-1005-ND◆	93.53	71.64	65.67	57.71	6424
	172 x 51	24	12 ~ 28	26	283	61	Ball	.118" x .02" Terminals	381-1043-ND◆	108.57	83.16	76.23	66.99	6224NH
	172 x 51	24	16 ~ 30	37	318	63	Ball	22 AWG 12.2" Leads	381-1156-ND◆	142.29	108.99	99.91	87.80	DV6224
	172 x 51	48	28 ~ 60	17	241	55	Ball	.118" x .02" Terminals	381-1045-ND◆	93.53	71.64	65.67	57.71	6248N
	172 x 51	48	40 ~ 60	37	318	63	Ball	22 AWG 12.2" Leads	381-1157-ND◆	142.29	108.99	99.91	87.80	DV6248
DC Flatpak Blowers — RoHS Compliant														
5	76 x 27	12	8 ~ 13.5	5	16.5	51	Ball	22 AWG 12.2" Leads	381-1148-ND	37.95	29.07	26.65	23.42	RL48-19/12
	76 x 27	24	18 ~ 26.4	5	16.5	51	Ball	22 AWG 12.2" Leads	381-1149-ND	35.63	27.30	25.02	21.99	RL48-19/14
	97 x 93.5 x 33	12	8 ~ 12	12.5	32.4	62	Ball	26 AWG 12.2" Leads	381-1150-ND	53.58	41.04	37.62	33.06	RL65-21/12/2
	121 x 37	12	7 ~ 15	5	24	58	Ball	22 AWG 12.2" Leads	381-1059-ND	67.56	51.75	47.44	41.69	RL90-18/12N
	121 x 37	24	12 ~ 28	5	24	58	Ball	22 AWG 12.2" Leads	381-1060-ND	67.56	51.75	47.44	41.69	RL90-18/14N
	127 x 25	12	8 ~ 15	8	37.7	60	Ball	22 AWG 12.2" Leads	381-1151-ND	81.90	62.73	57.51	50.54	RLF100-11/12
	127 x 25	24	6 ~ 30	8	37.7	60	Ball	22 AWG 12.2" Leads	381-1152-ND	82.84	63.45	58.17	51.12	RLF100-11/14
Finger Guards — RoHS Compliant														
Finger Guard Compatible with EBM Fan Size 200									381-2324-ND	23.85	18.27	16.75	14.72	78128-2-4039

◆ ***RoHS Compliant*** † PWM Fan ‡ ***Please Note: AC Cords not included, please refer to index – Fans/Blowers.***

Fig.	Dimensions (mm)	Voltage		Power (Watts)	CFM @ 0	Noise dB(A)	Bearing Type	Impeller Dimensions Inches (mm)	Capac-itor	Impeller Material	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
		Nominal	Range									1	25	50	100	
AC Backward Curved Motorized Impellers — RoHS Compliant ‡																
6	220 x 71	230	—	100	530	74	Ball	8.66" (220) x 2.8" (71)	2	Plastic	381-1109-ND	114.33	87.57	80.28	70.55	R2E220-AA40-23
DC Backward Curved Motorized Impellers — RoHS Compliant																
6	175 x 69	48	36 ~ 57	36	330	65	—	6.9" (175) x 2.72" (69)	—	Plastic	381-1159-ND	265.55	203.40	186.45	163.85	R1G175-AB41-02
DC Radial Blower — RoHS Compliant																
6	101 x 52	12	9 ~ 13.6	20.5	112	7.4	Ball	—	—	—	RER1013612N2HHP-ND†	110.92	84.96	77.88	68.44	RER101-36/12N-2HHP

† PWM Fan ‡ ***Please Note: AC Cords not included, please refer to index – Fans/Blowers.***

DC Axial Fans and Blowers

Broad product range covers axial fans from 25mm ~ 172mm and blowers from 30mm ~ 120mm.
Features: • Distinctive blade designs • Brushless • TS16949 accredited • ISO-9001 certified • Lead wires • IP Rated • PWM • 3rd Wire Options

Fig. 1

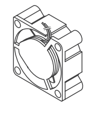

Fig. 2

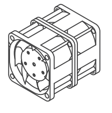

Fig. 3

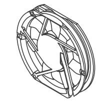

Fig. 4

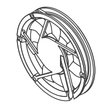

Fig. 5 ***NEW!***

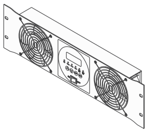

Fig. 6

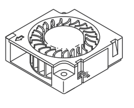

Fig. 7

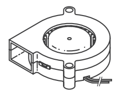

Fig. 8 ***NEW!***

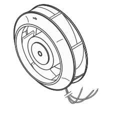

Fig. 9 ***NEW!***

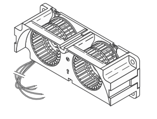

Fig.	Dimensions (mm)	Voltage		Power (Watts)	CFM	Noise dB(A)	Bearing Type	Rated Current(A)	Speed (RPM)	Features	Digi-Key Part No.	Price Each			Delta Part No.	Finger Guards	Price Each
		Nominal	Range									1	10	25			
											Axial Fans						
1	25 x 25 x 10	12	7.0 ~ 13.2	.96	2.40	28.0	Ball	.080	13,000	—	603-1129-ND	11.28	10.32	8.64	AFB02512HHA-A	—	—
	35 x 35 x 10	12	9.5 ~ 13.8	1.08	5.50	22.0	Ball	.090	7,000	—	603-1128-ND	11.28	10.32	8.64	AFB03512HA-A	CR378-ND	.74
	40 x 40 x 10	12	7.0 ~ 13.8	.60	8.154	31.5	Ball	.050	7,000	IP55	603-1209-ND ***NEW!***	13.82	12.65	10.59	AFB0412HHA-TA5F	CR230-ND	.61
	40 x 40 x 10	12	7.0 ~ 13.8	.72	5.90	24.5	Ball	.060	5,000	—	603-1002-ND	9.99	9.14	7.65	EFB0412MA	CR230-ND	.61
	40 x 40 x 10	12	7.0 ~ 13.8	.96	6.92	28.5	Ball	.080	6,000	—	603-1003-ND	9.99	9.14	7.65	EFB0412HA	CR230-ND	.61
	40 x 40 x 10	12	7.0 ~ 13.8	1.20	8.09	33.0	Ball	.100	7,000	—	603-1004-ND	9.99	9.14	7.65	EFB0412HHA	CR230-ND	.61
	40 x 40 x 15	12	7.0 ~ 13.8	1.56	11.48	32.0	Ball	.130	8,300	—	603-1005-ND	12.34	11.29	9.45	AFB0412HHB	CR230-ND	.61
	40 x 40 x 15	12	7.0 ~ 13.8	2.16	13.00	36.5	Ball	.18	9,500	PWM Control	603-1184-ND ***NEW!***	13.75	12.58	10.53	AFB0412VHB-TP25	CR230-ND	.61
	40 x 40 x 15	12	7.0 ~ 13.8	3.00	14.83	41.5	Ball	.250	11,000	—	603-1006-ND	12.34	11.29	9.45	AFB0412SHB	CR230-ND	.61
	40 x 40 x 20	5	4.5 ~ 5.5	1.25	8.54	28.5	Ball	.250	7,600	—	603-1007-ND	11.16	10.22	8.55	EFB0405HD	CR230-ND	.61
	40 x 40 x 20	5	4.5 ~ 5.5	1.60	10.10	32.5	Ball	.320	9,000	Tach	603-1008-ND	11.75	10.75	9.00	EFB0405VHD-F00	CR230-ND	.61
	40 x 40 x 20	12	7.0 ~ 13.8	.96	8.54	28.5	Ball	.080	7,600	—	603-1009-ND	11.16	10.22	8.55	EFB0412HD	CR230-ND	.61
	40 x 40 x 20	12	7.0 ~ 13.8	1.44	10.10	32.5	Ball	.120	9,000	—	603-1010-ND	11.16	10.22	8.55	EFB0412VHD	CR230-ND	.61
	40 x 40 x 20	24	14.0 ~ 27.6	.96	5.54	22.0	Ball	.040	5,000	—	603-1011-ND	11.16	10.22	8.55	EFB0424LD	CR230-ND	.61
	40 x 40 x 28	12	4.5 ~ 13.8	.84	10.59	32.1	Ball	.070	6,500	Tach	603-1012-ND	14.57	13.33	11.16	FFB0412HN-F00	CR230-ND	.61
	40 x 40 x 28	12	4.0 ~ 13.8	6.00	24.0	51.5	Ball	.500	13,000	Tach	603-1013-ND	16.69	15.27	12.78	FFB0412SHN-F00	CR230-ND	.61
	40 x 40 x 28	12	4.5 ~ 13.2	1.92	15.79	41.9	Ball	.160	9,500	—	603-1014-ND	13.98	12.80	10.71	FFB0412VHN	CR230-ND	.61
	40 x 40 x 28	12	4.5 ~ 13.2	1.92	15.79	41.9	Ball	.160	9,500	—	603-1015-ND	15.75	14.41	12.06	FFB0412VHN-B	CR230-ND	.61
	40 x 40 x 28	12	4.5 ~ 13.2	1.92	15.79	41.9	Ball	.160	9,500	Tach	603-1016-ND	15.75	14.41	12.06	FFB0412VHN-F00	CR230-ND	.61
	40 x 40 x 28	12	4.5 ~ 13.2	1.92	15.79	41.9	Ball	.160	9,500	Locked Rotor	603-1017-ND	14.57	13.33	11.16	FFB0412VHN-R00	CR230-ND	.61
	40 x 40 x 28	24	14.0 ~ 26.4	2.40	15.79	41.9	Ball	.100	9,500	—	603-1018-ND	13.98	12.80	10.71	FFB0424VHN	CR230-ND	.61
	45 x 45 x 10	12	7.0 ~ 13.8	1.32	9.85	30.0	Ball	.110	5,000	—	603-1021-ND	12.34	11.29	9.45	AFB04512MA	—	—
	50 x 50 x 10	5	4.5 ~ 5.5	.65	9.21	25.0	Ball	.130	4,500	Tach	603-1022-ND	11.75	10.75	9.00	EFB0505MA-F00	CR379-ND	.96
	50 x 50 x 10	12	7.0 ~ 13.8	1.20	11.4	30.0	Ball	.100	5,500	—	603-1023-ND	9.99	9.14	7.65	EFB0512HA	CR379-ND	.96
	50 x 50 x 15	12	7.0 ~ 13.8	1.20	14.13	32.0	Ball	.100	5,600	—	603-1024-ND	12.34	11.29	9.45	AFB0512HB	CR379-ND	.96
	50 x 50 x 20	12	7.0 ~ 13.8	1.92	20.30	40.5	Ball	.160	7,000	—	603-1025-ND	12.34	11.29	9.45	AFB0512VHD	CR379-ND	.96
	60 x 60 x 10	12	7.0 ~ 13.8	2.16	21.19	36.5	Ball	.180	4,800	—	603-1026-ND	11.16	10.22	8.55	EFB0612HHA	CR221-ND	.63
	60 x 60 x 15	5	4.0 ~ 6.0	1.50	15.36	32.0	Ball	.300	4,000	—	603-1027-ND	12.34	11.29	9.45	AFB0605HB	CR221-ND	.63
	60 x 60 x 15	24	14.0 ~ 27.6	1.92	15.36	32.0	Ball	.080	4,000	—	603-1028-ND	12.34	11.29	9.45	AFB0624HB	CR221-ND	.63
	60 x 60 x 20	12	7.0 ~ 13.8	1.80	18.36	31.0	Ball	.150	4,400	—	603-1029-ND	12.34	11.29	9.45	AFB0612HHD	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	.96	16.81	26.5	Ball	.080	3,100	—	603-1030-ND	13.75	12.58	10.53	AFB0612L-A	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	1.68	23.38	34.0	Ball	.140	4,250	—	603-1031-ND	13.75	12.58	10.53	AFB0612H-A	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	2.04	27.55	40.0	Ball	.170	5,000	—	603-1032-ND	13.75	12.58	10.53	AFB0612HH-A	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	2.88	29.3	42.5	Superflo	.240	5,500	—	603-1214-ND ***NEW!***	6.06	5.55	4.65	AUB0612VH-AIT	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	3.24	34.15	44.5	Ball	.270	6,000	Tach	603-1033-ND	14.92	13.66	11.43	AFB0612SH-ABF00	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	3.24	34.15	44.5	Ball	.270	6,000	Tach	603-1034-ND	14.34	13.12	10.98	AFB0612SH-AF00	CR221-ND	.63
	60 x 60 x 25.4	12	4.0 ~ 13.8	4.56	38.35	46.5	Ball	.380	6,800	Tach	603-1035-ND	14.92	13.66	11.43	AFB0612EH-ABF00	CR221-ND	.63
	60 x 60 x 25.4	24	12.0 ~ 27.6	5.52	27.76	42.0	Sleeve	.230	5,000	—	603-1217-ND ***NEW!***	4.79	4.39	3.68	DSB0624VH-A	CR221-ND	.63
	60 x 60 x 25.4	24	14.0 ~ 27.6	2.16	23.38	34.0	Ball	.090	4,250	—	603-1036-ND	13.75	12.58	10.53	AFB0624H-A	CR221-ND	.63
	60 x 60 x 25.4	24	14.0 ~ 27.6	2.64	27.55	40.0	Ball	.110	5,000	—	603-1037-ND	13.75	12.58	10.53	AFB0624HH-A	CR221-ND	.63
	60 x 60 x 25.4	48	36.0 ~ 60.0	6.72	38.35	46.5	Ball	.140	6,800	PWM Control	603-1197-ND ***NEW!***	25.26	23.12	19.35	AFB0648EH-TP27	CR221-ND	.63
	60 x 60 x 38	12	4.5 ~ 13.8	4.08	36.73	46.5	Ball	.340	6,000	—	603-1038-ND	16.10	14.73	12.33	FFB0612VHE	CR221-ND	.63
	60 x 60 x 38	12	4.5 ~ 13.8	6.60	43.44	50.5	Ball	.550	7,000	—	603-1039-ND	16.10	14.73	12.33	FFB0612SHE	CR221-ND	.63
	60 x 60 x 38	12	4.5 ~ 13.8	9.60	50.15	54.5	Ball	.800	8,000	—	603-1040-ND	16.10	14.73	12.33	FFB0612EHE	CR221-ND	.63
	60 x 60 x 38	12	7.0 ~ 13.8	8.16	49.54	54.0	Ball	.680	9,000	—	603-1041-ND	18.10	16.56	13.86	AFB0612VHE-A	CR221-ND	.63
	60 x 60 x 38	12	7.0 ~ 13.2	10.20	55.63	57.5	Ball	.850	10,000	IP55	603-1198-ND ***NEW!***	24.09	22.04	18.45	PFB0612GHE-T500	CR221-ND	.63
	60 x 60 x 38	12	7.0 ~ 13.2	13.20	56.45	61.5	Ball	1.10	13,000	IP55	603-1210-ND ***NEW!***	24.44	22.36	18.72	QFR0612UHE-PM00	CR221-ND	.63
	70 x 70 x 20	12	5.0 ~ 13.8	3.00	40.43	40.5	Ball	.250	4,400	—	603-1043-ND	12.34	11.29	9.45	AFB0712HHD	—	—
	70 x 70 x 25.4	12	5.0 ~ 12.6	5.28	51.97	47.5	Ball	.440	5,500	—	603-1044-ND	12.34	11.29	9.45	AFB0712VH-A	—	—
	70 x 70 x 25.4	12	5.0 ~ 13.8	7.80	61.05	50.5	Ball	.650	6,300	—	603-1045-ND	14.45	13.23	11.07	AFB0712SH-AB	—	—
	70 x 70 x 25.4	24	14.0 ~ 26.4	2.16	28.85	31.5	Ball	.090	3,100	—	603-1046-ND	13.75	12.58	10.53	AFB0724M-A	—	—
	80 x 80 x 15	12	7.0 ~ 13.8	1.68	33.55	34.0	Ball	.140	3,100	—	603-1182-ND	12.34	11.29	9.45	AFB0812HB	—	—
	80 x 80 x 15	12	7.0 ~ 13.8	2.28	39.20	39.5	Ball	.190	3,700	Tach	603-1047-ND	12.93	11.83	9.90	AFB0812VHB-F00	CR180-ND	.87
	80 x 80 x 20	12	7.0 ~ 13.8	2.64	48.20	41.0	Ball	.220	4,000	—	603-1048-ND	12.34	11.29	9.45	AFB0812SHD	CR180-ND	.87
	80 x 80 x 25.4	5	4.5 ~ 5.5	2.15	35.31	31.0	Ball	.430	3,000	—	603-1049-ND	12.34	11.29	9.45	AFB0805H	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.8	1.92	35.31	31.0	Ball	.160	3,000	—	603-1050-ND	12.34	11.29	9.45	AFB0812H	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.8	2.40	37.43	34.0	Ball	.200	3,250	—	603-1051-ND	12.34	11.29	9.45	AFB0812HH	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.8	2.40	37.43	34.0	Ball	.200	3,250	Tach	603-1052-ND	12.93	11.83	9.90	AFB0812HH-F00	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.8	3.24	46.6	39	Superflo	.270	3,600	—	603-1215-ND ***NEW!***	6.06	5.55	4.65	AUB0812VH-AIT	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.8	4.08	46.62	40.0	Ball	.340	4,000	Tach	603-1054-ND	12.93	11.83	9.90	AFB0812SH-F00	CR180-ND	.87
	80 x 80 x 25.4	12	4.0 ~ 13.2	4.08	54.56	45.4	Ball	.340	4,000	IP55	603-1219-ND ***NEW!***	21.86	20.00	16.74	FFB0812VH-T500	CR180-ND	.87
	80 x 80 x 25.4	12	10.0 ~ 13.2	3.60	55.59	46.0	Ball	.300	4,500	PWM Control	603-1200-ND ***NEW!***	13.09	11.98	10.03	AFB0812SH-TP12	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.2	6.00	67.02	48.6	Ball	.500	4,500	—	603-1055-ND	21.27	19.46	16.29	FFB0812SH	CR180-ND	.87
	80 x 80 x 25.4	12	7.0 ~ 13.2	6.00	67.02	48.6	Ball	.500	4,500	Locked Rotor	603-1181-ND	21.86	20.00	16.74	FFB0812SH-R00	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.8	4.56	57.21	44.5	Ball	.380	4,200	—	603-1056-ND	16.10	14.73	12.33	FFB0812VHE	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.8	6.96	68.51	48.5	Ball	.580	4,900	—	603-1057-ND	16.10	14.73	12.33	FFB0812SHE	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.8	10.80	80.16	52.5	Ball	.900	5,700	Tach	603-1058-ND	16.69	15.27	12.78	FFB0812EHE-F00	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.2	18.00	102.02	62.2	Ball	1.50	7,500	—	603-1060-ND	23.74	21.72	18.18	FFB0812UHE	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.2	18.6	107.3	61.0	Ball	1.55	7,500	IP55	603-1199-ND ***NEW!***	37.01	33.87	28.35	PFB0812UHE-T500	CR180-ND	.87
	80 x 80 x 38	12	7.0 ~ 13.2	33.00	132.56	65.0	Ball	2.75	9,000	—	603-1061-ND	31.49	28.81	24.12	PFB0812DHE	CR180-ND	.87
	92 x 92 x 20	24	14.0 ~ 27.6	2.40	54.60	35.0	Ball	.100	2,700	—	603-1063-ND	12.34	11.29	9.45	AFB0924HD	CR220-ND	.72
	92 x 92 x 25.4	12	7.0 ~ 13.8	1.92	51.21	34.0	Ball	.160	2,850	—	603-1064-ND	12.34	11.29	9.45	AFB0912H	CR220-ND	.72
	92 x 92 x 25.4	12	5.0 ~ 13.8	2.52	59.89	37.0	Ball	.21	2,800	IP55	603-1201-ND ***NEW!***	17.18	15.72	13.16	AFB0912H-TA50	CR220-ND	.72
	92 x 92 x 25.4	12	7.0 ~ 13.8	3.00	57.92	38.0	Ball	.250	3,200	—	603-1065-ND	12.34	11.29	9.45	AFB0912HH	CR220-ND	.72
	92 x 92 x 25.4	12	7.0 ~ 13.8	4.80	67.80	45.0	Ball	.400	3,800	—	603-1067-ND	12.34	11.29	9.45	AFB0912VH	CR220-ND	.72
	92 x 92 x 25.4	12	7.0 ~ 13.8	4.80	72.0	45.0	Superflo	.400	3,600	—	603-1216-ND ***NEW!***	6.82	6.24	5.22	AUB0912VH-CIT	CR220-ND	.72
	92 x 92 x 25.4	12	7.0 ~ 13.8	7.20	81.97	48.2	Ball	.600	3,700	—	603-1066-ND	16.10	14.73	12.33	FFB0912VH	CR220-ND	.72
	92 x 92 x 25.4	24	14.0 ~ 27.6	2.40	51.21	34.0	Ball	.100	2,850	—	603-1069-ND	12.34	11.29	9.45	AFB0924H	CR220-ND	.72
	92 x 92 x 25.4	24	14.0 ~ 27.6	5.28	67.80	45.0	Ball	.220	3,800	—	603-1070-ND	12.34	11.29	9.45	AFB0924VH	CR220-ND	.72
	92 x 92 x 38	12	7.0 ~ 13.2	8.16	103.67	54.0	Ball	.68	4,800	IP55	603-1208-ND ***NEW!***	32.78	30.00	25.11	PFB0912EHE-T500	CR220-ND	.72
	92 x 92 x 38	12	7.0 ~ 13.2	9.6	110.18	55.0	Ball	.80	4,800	PWM Control	603-1207-ND ***NEW!***	20.02	18.32	15.34	FFC0912DE-TP04	CR220-ND	.72
	92 x 92 x 38	12	7.0 ~ 13.2	14.64	129.31	60.5	Ball	1.22	6,000	—	603-1071-ND	32.08	29.35	24.57	PFB0912GHE	CR220-ND	.72
	92 x 92 x 38	24	14.0 ~ 27.6	6.72	85.46	47.5	Ball	.280	3,800	—	603-1072-ND	16.80	15.38	12.87	FFB0924VHE	CR220-ND	.72
	92 x 92 x 38	24	14.0 ~ 27.6	12.00	110.18	55.0	Ball	.50	4,800	IP55	603-1179-ND	22.82	20.88	17.48	FFB0924EHE-T500	CR220-ND	.72
	92 x 92 x 38	48	28.0 ~ 53.0	9.60	100.29	52.5	Ball	.200	4,400	—	603-1073-ND	21.39	19.57	16.38	FFB0948SHE	CR220-ND	.72
	92 x 92 x 38	24	14.0 ~ 26.4	34.80	175.03	66.5	Ball	1.45	8,000	IP55	603-1252-ND ***NEW!***	35.25	32.25	27.00	PFB0924DHE-T500	—	—
	120 x 120 x 25.4	12	7.0 ~ 13.8	2.76	82.67	38.5	Ball	.230	2,500	—	603-1075-ND	15.51	14.19	11.88	AFB1212H	CR210-ND	1.62
	120 x 120 x 25.4	12	7.0 ~ 13.8	3.96	95.14	41.5	Ball	.330	2,800	—	603-1076-ND	15.51	14.19	11.88	AFB1212HH	CR210-ND	1.62
	120 x 120 x 25.4	12	7.0 ~ 13.8	4.80	103.75	44.5	Ball	.40	3,100	IP55	603-1202-ND ***NEW!***	18.73	17.14	14.35	AFB1212VH-T500	CR210-ND	1.62
	120 x 120 x 25.4	12	7.0 ~ 13.8	6.36	113.11	46.5	Ball	.53	3,400	IP55	603-1178-ND	23.45	21.46	17.97	AFB1212SH-T500	CR210-ND	1.62

(Continued)

DELTA DC Axial Fans and Blowers *(Cont.)*

Fig.	Dimensions (mm)	Voltage		Power (Watts)	CFM	Noise dB(A)	Bearing Type	Rated Current(A)	Speed (RPM)	Features	Digi-Key Part No.	Price Each			Delta Part No.	Finger Guards	Price Each
		Nominal	Range									1	10	25			
1	120 x 120 x 25.4	24	14.0 ~ 27.6	6.72	113.11	46.5	Ball	.280	3,400	—	603-1077-ND	16.22	14.84	12.42	AFB1224SH	CR210-ND	1.62
	120 x 120 x 25.4	24	14.0 ~ 27.6	6.72	113.11	46.5	Ball	.280	3,400	IP55	603-1185-ND ***NEW!***	26.34	24.11	20.18	AFB1224SH-T500	CR210-ND	1.62
	120 x 120 x 38	12	10.8 ~ 13.2	4.80	120.07	44.0	Ball	.40	2,900	PWM Control	603-1212-ND ***NEW!***	21.10	19.31	16.17	AFB1212HHE-TP02	CR210-ND	1.62
	120 x 120 x 38	12	4.0 ~ 13.2	7.20	129.96	48.0	Ball	.600	3,200	Tach	603-1078-ND	17.98	16.45	13.77	AFB1212VHE-F00	CR210-ND	1.62
	120 x 120 x 38	12	4.0 ~ 13.2	12.60	151.85	53.0	Ball	1.05	3,700	—	603-1082-ND	17.39	15.91	13.32	AFB1212SHE	CR210-ND	1.62
	120 x 120 x 38	12	7.0 ~ 13.2	12.00	151.85	53.0	Ball	1.00	3,200	—	603-1080-ND	28.32	25.91	21.69	FFB1212VHE	CR210-ND	1.62
	120 x 120 x 38	12	7.0 ~ 13.2	18.00	170.92	56.5	Ball	1.50	3,600	Tach	603-1081-ND	28.91	26.45	22.14	FFB1212SHE-F00	CR210-ND	1.62
	120 x 120 x 38	12	7.0 ~ 13.2	24.00	190.00	59.0	Ball	2.00	4,000	Tach	603-1083-ND	28.91	26.45	22.14	FFB1212EHE-F00	CR210-ND	1.62
	120 x 120 x 38	12	8.0 ~ 13.2	32.40	217.80	64.0	Ball	2.70	4,800	—	603-1084-ND	41.48	37.95	31.77	PFB1212GHE	CR210-ND	1.62
	120 x 120 x 38	24	7.0 ~ 27.6	5.76	105.94	41.0	Ball	.240	2,600	—	603-1085-ND	18.10	16.56	13.86	AFB1224HE	CR210-ND	1.62
	120 x 120 x 38	24	14.0 ~ 27.6	4.80	109.17	44.0	Ball	.20	3,000	Locked Rotor	603-1183-ND	18.68	17.10	14.31	AFB1224HE-R00	CR210-ND	1.62
	120 x 120 x 38	24	7.0 ~ 27.6	9.12	129.96	48.0	Ball	.380	3,200	—	603-1086-ND	18.10	16.56	13.86	AFB1224VHE	CR210-ND	1.62
	120 x 120 x 38	24	14.0 ~ 26.4	24.00	190.00	59.0	Ball	1.00	4,000	—	603-1088-ND	29.73	27.20	22.77	FFB1224EHE	CR210-ND	1.62
	120 x 120 x 38	24	14.0 ~ 26.5	48.00	252.85	66.5	Ball	2.00	5,500	IP55/Tach	603-1180-ND	47.12	43.11	36.09	PFB1224UHE-T50F	CR210-ND	1.62
	120 x 120 x 38	48	28.0 ~ 56.0	5.76	105.94	41.0	Ball	.12	2,600	IP55	603-1203-ND ***NEW!***	30.67	28.06	23.49	AFB1248HE-T500	CR210-ND	1.62
	120 x 120 x 38	48	28.0 ~ 53.0	24.00	190.00	59.0	Ball	.500	4,000	Tach	603-1089-ND	33.96	31.07	26.01	FFB1248EHE-F00	CR210-ND	1.62
	120 x 120 x 38	24	14.0 ~ 26.4	78.00	264.62	73.5	Ball	3.25	6,300	IP55	603-1248-ND ***NEW!***	74.61	68.27	57.15	FFB1224XHE-TM50	—	—
	120 x 120 x 38	24	14.0 ~ 26.5	32.40	217.79	64.0	Ball	1.35	4,800	IP55	603-1253-ND ***NEW!***	47.59	43.54	36.45	PFB1224GHE-T500	—	—
	127 x 127 x 38	12	7.0 ~ 13.2	22.20	180.00	56.5	Ball	1.85	3,450	—	603-1094-ND	37.60	34.40	28.80	FFB1312SHE	CR200-ND	2.36
	127 x 127 x 38	48	28.0 ~ 56.0	32.16	200.02	59.5	Ball	.67	3,850	Tach	603-1189-ND ***NEW!***	42.89	39.24	32.85	FFB1348EHE-F00	CR200-ND	2.36
2	40 x 40 x 48	12	7.0 ~ 13.2	10.20	24.00	60.0	Ball	.850	12,000	Tach	603-1019-ND	27.61	25.27	21.15	GFB0412SHG-F00	CR230-ND	.61
	40 x 40 x 56	12	7.0 ~ 13.2	15.00	27.30	59.5	Ball	1.25	15,000	Tach	603-1020-ND	27.61	25.27	21.15	GFB0412EHS-F00	CR230-ND	.61
	80 x 80 x 50.8	12	7.0 ~ 13.2	8.76	68.58	53.0	Ball	.730	4,200	Tach	603-1062-ND	29.61	27.09	22.68	GFB0812SHG-F00	CR180-ND	.87
	120 x 120 x 76.2	52	40 ~ 60	20.80	220.29	59.0	Ball	.40	3,550	PWM Control	603-1194-ND ***NEW!***	68.15	62.35	52.20	GFB1248VHW-TP15	CR210-ND	1.62
3	172 x 150 x 25.4	12	6.0 ~ 14.0	11.76	202.54	52.0	Ball	.980	3,000	—	603-1126-ND	67.33	61.60	51.57	AFB1512H-A	CR196-ND	2.84
	172 x 150 x 25.4	12	6.0 ~ 14.0	14.04	214.85	53.5	Ball	1.17	3,200	—	603-1099-ND	67.33	61.60	51.57	AFB1512HH-A	CR196-ND	2.84
	172 x 150 x 25.4	24	12.0 ~ 30.0	7.44	160.77	46.0	Ball	.310	2,400	—	603-1125-ND	67.33	61.60	51.57	AFB1524L-A	CR196-ND	2.84
	172 x 150 x 50.8	12	8.0 ~ 14.0	21.48	279.69	57.5	Ball	1.79	3,700	IP55	603-1204-ND ***NEW!***	72.97	66.76	55.89	EFB1512HHG-T500	CR196-ND	2.84
	172 x 150 x 50.8	48	32.0 ~ 80.0	42.24	347.08	66.5	Ball	.88	4,900	IP55	603-1245-ND ***NEW!***	120.09	109.87	91.98	EHB1548SHG-T50F	—	—
4	172 x 50.8	24	12.0 ~ 28.0	23.28	302.29	57.0	Ball	.97	4,000	IP55	603-1205-ND ***NEW!***	64.41	58.94	49.34	EFB1724VHG-T500	CR196-ND	2.84
	172 x 50.8	24	12.0 ~ 28.0	28.08	325.00	59.0	Ball	1.17	4,300	Tach	603-1130-ND	61.69	56.44	47.25	EFB1724SHG-F00	CR206-ND	2.67
PWM Control Axial Fans with Tach Output																	
1	38 x 38 x 28	12	10.8 ~ 13.2	6.60	20.23	58.5	Ball	.550	16,000	PWM/Tach	603-1220-ND ***NEW!***	16.14	14.78	12.37	FFB03812VHN-9C3P	—	—
	40 x 40 x 28	12	7.0 ~ 13.2	1.92	15.79	45.0	Ball	.16	9,500	PWM/Tach	603-1206-ND ***NEW!***	14.50	13.27	11.11	FFB0412VHN-TP03	CR230-ND	.61
	60 x 60 x 15	12	8.0 ~ 13.2	3.96	29.24	47.5	Ball	.330	7,200	PWM/Tach	603-1169-ND	16.38	14.99	12.55	AFC0612DB-F00	CR221-ND	.63
	60 x 60 x 25.4	12	10.8 ~ 13.8	1.56	23.38	34.0	Ball	.130	4,250	PWM/Tach	603-1174-ND	14.19	12.99	10.88	AFC0612D-SP07	CR221-ND	.63
	60 x 60 x 25.4	12	10.8 ~ 13.2	10.08	50.40	55.0	Ball	.84	9,000	PWM/Tach	603-1211-ND ***NEW!***	16.10	14.73	12.33	AFB0612DH-TP11	CR221-ND	.63
	60 x 60 x 38	12	7.0 ~ 13.2	10.80	54.79	60.0	Ball	.90	9,000	PWM/Tach	603-1160-ND	19.98	18.28	15.30	FFC0612DE-F00	CR221-ND	.63
	60 x 60 x 38	12	8.0 ~ 13.2	18.0	66.75	61.5	Ball	1.50	12,000	PWM/Tach	603-1158-ND	17.74	16.24	13.59	AFC0612DE-AF00	CR221-ND	.63
	60 x 60 x 38	12	10.8 ~ 13.2	16.80	67.85	61.5	Ball	1.40	12,000	PWM/Tach	603-1162-ND	19.98	18.28	15.30	PFC0612DE-F00	CR221-ND	.63
	70 x 70 x 20	12	8.0 ~ 13.2	4.20	46.86	44.3	Ball	.35	5,000	PWM/Tach	603-1187-ND ***NEW!***	13.49	12.35	10.34	AFC0712DD-TP10	—	—
	80 x 80 x 15	12	7.0 ~ 12.6	3.96	48.80	41.0	Ball	.33	3,800	PWM/Tach	603-1159-ND	10.58	9.68	8.10	EFC0812DB-F00	—	—
	80 x 80 x 25.4	12	10.8 ~ 13.8	1.08	27.9	25	Superflo	.090	2,400	PWM/Tach	603-1224-ND ***NEW!***	6.63	6.07	5.08	AUB0812L-9X41	CR180-ND	.87
	80 x 80 x 25.4	12	10.8 ~ 13.2	2.28	42.02	39.0	Ball	.19	3,600	PWM/Tach	603-1157-ND	8.58	7.85	6.57	AUB0812VH-SP00	—	—
	80 x 80 x 38	12	7.0 ~ 13.2	9.60	86.65	54.4	Ball	.80	6,000	PWM/Tach	603-1167-ND	36.43	33.33	27.90	PFC0812DE-SP07	—	—
	80 x 80 x 38	12	10.8 ~ 13.2	13.80	105.21	60.0	Ball	1.15	9,000	PWM/Tach	603-1172-ND	17.74	16.24	13.59	QFR0812DE-F00	CR180-ND	.87
	80 x 80 x 38	12	10.8 ~ 13.2	33.00	132.6	65.0	Ball	2.75	9,000	PWM/Tach	603-1166-ND	36.43	33.33	27.90	PFC0+812DE-SP04	—	—
	80 x 80 x 38	48	28.0 ~ 56.0	7.68	68.51	48.5	Ball	.16	4,900	PWM/Tach	603-1247-ND ***NEW!***	27.85	25.48	21.33	FFB0848SHE-TP36	—	—
	92 x 92 x 25.4	12	8.0 ~ 13.2	9.00	102.59	53.0	Ball	.75	4,800	PWM/Tach	603-1156-ND	16.22	14.84	12.42	AFC0912D-AF00	—	—
	92 x 92 x 38	12	8.0 ~ 13.2	19.20	131.76	62.0	Ball	1.60	8,300	PWM/Tach	603-1176-ND	28.74	26.30	22.02	QFR0912UHE-SP01	CR220-ND	.72
	92 x 92 x 38	48	36 ~ 75	24.96	153.52	64.0	Ball	.52	7,000	PWM/Tach	603-1190-ND ***NEW!***	33.96	31.07	26.01	PFB0948UHE-TP16	CR220-ND	.72
	92 x 92 x 38	48	36 ~ 75	28.80	159.369	67.0	Ball	.60	7,500	PWM/Tach	603-1188-ND ***NEW!***	32.71	29.93	25.06	AFC0948DE-TP20	CR220-ND	.72
	120 x 120 x 25.4	12	10.2 ~ 13.8	6.36	113.11	46.5	Ball	.53	3,400	PWM/Tach	603-1168-ND	18.21	16.67	13.95	AFC1212D-F00	CR210-ND	1.62
	120 x 120 x 38	12	8.0 ~ 13.2	21.60	210.38	64.0	Ball	1.80	6,000	PWM/Tach	603-1165-ND	31.30	28.64	23.98	QFR1212GHE-SP01	—	—
	120 x 120 x 38	12	8.0 ~ 13.2	48.00	252.85	66.5	Ball	4.00	5,500	PWM/Tach	603-1164-ND	42.93	39.29	32.89	PFC1212DE-F00	—	—
	120 x 120 x 38	48	34.0 ~ 56.0	14.88	190.481	55.5	Ball	.31	4,100	PWM/Tach	603-1186-ND ***NEW!***	42.58	38.96	32.62	AFB1248VHE-TP18	CR210-ND	1.62
	120 x 120 x 38	48	33.0 ~ 52.8	24.00	210.38	64.0	Ball	.50	6,000	PWM/Tach	603-1191-ND ***NEW!***	37.60	34.40	28.80	QFR1248GHE-SP01	CR210-ND	1.62
	120 x 120 x 38	48	33.0 ~ 52.8	76.8	306.92	72.5	Ball	1.60	7,000	PWM/Tach	603-1221-ND ***NEW!***	47.28	43.26	36.22	PFB1248XHE-TP17	CR210-ND	1.62
	120 x 120 x 38	24	16.0 ~ 26.4	22.56	210.38	64.0	Ball	.94	6,000	PWM/Tach	603-1254-ND ***NEW!***	35.02	32.04	26.82	QFR1224GHE-SP01	—	—
2	40 x 40 x 56	12	4.0 ~ 13.2	12.00	30.50	61.0	Ball	1.00	15,300	PWM/Tach	603-1161-ND	29.38	26.88	22.50	GFC0412DS-TP01	—	—
	60 x 60 x 76	12	10.8 ~ 13.2	28.8	69.7	70.2	Ball	2.4	13,300	PWM/Tach	603-1195-ND ***NEW!***	36.43	33.33	27.90	GFC0612DW-F00	CR221-ND	.63
	80 x 80 x 76	12	10.8 ~ 13.2	66.00	160.19	75.2	Ball	5.50	9,200	PWM/Tach	603-1196-ND ***NEW!***	45.59	41.71	34.92	GFC0812DW-F00	CR180-ND	.87
3	172 x 150 x 50.8	48	36.0 ~ 60.0	23.52	302.29	60	Ball	.490	4,000	PWM/Tach	603-1218-ND ***NEW!***	77.55	70.95	59.40	EFB1548VHG-TP14	—	—
NEW! AC Fan Tray NEW!																	
5	380 x 122.9 x 43.0	110/220	100 ~ 240	10/65	155/335	39/59	Ball	.1/.65	1,800/3,800	PWM/Tach	603-1222-ND	223.25	204.25	171.00	FTA0102AA	—	—
	484 x 129.4 x 49.0	110/220	100 ~ 240	10/65	155/335	43/60	Ball	.1/.65	1,800/3,800	PWM/Tach	603-1223-ND	223.25	204.25	171.00	FTA0302AA	—	—
Blowers																	
6	30 x 30 x 10	12	7.0 ~ 13.2	.84	1.45	29.0	Ball	.070	7,500	—	603-1112-ND	11.99	10.97	9.18	BFB0312HA-A	—	—
	40 x 40 x 10	5	4.0 ~ 6.0	1.10	3.00	34.5	Ball	.220	8,500	—	603-1113-ND	11.99	10.97	9.18	BFB0405HHA-A	—	—
	50 x 50 x 20	12	5.0 ~ 13.8	2.76	6.75	38.5	Ball	.23	5,300	PWM/Tach	603-1244-ND ***NEW!***	14.01	12.82	10.73	BFB0512VHD-SP01	—	—
7	51 x 51 x 15	12	10.0 ~ 13.8	1.92	3.88	38.0	Ball	.160	5,500	Locked Rotor	603-1114-ND	16.10	14.73	12.33	BFB0512H-R00	—	—
	51 x 51 x 15	12	10.0 ~ 13.8	2.52	4.59	45.0	Ball	.210	6,500	Tach	603-1115-ND	16.10	14.73	12.33	BFB0512HH-F00	—	—
	51 x 51 x 15	24	14.0 ~ 27.6	2.64	4.59	45.0	Ball	.110	6,500	—	603-1116-ND	15.51	14.19	11.88	BFB0524HH	—	—
	60 x 60 x 25	12	5.0 ~ 13.8	2.16	6.71	34.0	Ball	.180	3,200	—	603-1117-ND	13.16	12.04	10.08	BFB0612H	—	—
	75 x 75 x 30	12	7.0 ~ 13.8	2.64	11.30	38.0	Ball	.220	2,900	—	603-1118-ND	16.33	14.95	12.51	BFB0712H	—	—
	75.7 x 75.7 x 25	12	7.0 ~ 13.8	4.08	15.327	51.0	Ball	.34	4,400	—	603-1177-ND	16.59	15.18	12.71	BFB0712HH-A	—	—
	75 x 80 x 30	12	10.8 ~ 12.6	27.60	30.16	69.3	Ball	2.30	10,800	PWM Control	603-1213-ND ***NEW!***	31.35	28.69	24.02	BCB0812UHN-TP09	—	—
	97 x 94 x 33	12	4.0 ~ 13.8	9.60	25.43	52.0	Ball	.800	3,600	Tach	603-1119-ND	21.62	19.78	16.56	BFB1012H-F00	—	—
	97 x 94 x 33	24	7.0 ~ 27.6	9.60	25.43	52.0	Ball	.400	3,600	Tach	603-1120-ND	21.62	19.78	16.56	BFB1024H-F00	—	—
	120 x 120 x 32	12	4.0 ~ 13.8	4.80	24.70	47.0	Ball	.400	2,100	Tach	603-1121-ND	23.62	21.61	18.09	BFB1212L-F00	—	—
	120 x 120 x 32	48	28.0 ~ 56.0	10.56	35.31	54.0	Ball	.220	2,800	—	603-1122-ND	24.21	22.15	18.54	BFB1248HH	—	—
	120 x 120 x 32	48	36.0 ~ 60.0	12.00	35.31	54.0	Ball	.25	2,800	PWM Control	603-1193-ND ***NEW!***	43.71	39.99	33.48	BFB1248HH-TP21	—	—
8	175 x 54	48	32.0 ~ 80.0	31.20	247.47	69.0	Ball	.65	3,500	Tach	603-1246-ND ***NEW!***	131.60	120.40	100.80	KHB1748VHS-F00	—	—
9	125 x 38 x 45	12	5.5 ~ 13.8	7.44	23.13	52.0	Ball	.62	7,000	Tach	603-1251-ND ***NEW!***	25.26	23.12	19.35	SFB0212HH-F00	—	—

STACO ENERGY PRODUCTS CO.

Variable AC Transformers

Cased plug-in models feature a ventilated steel case, input line cord and plug, fused NEMA rated output receptacle, and an illuminated on/off switch. They are connected for output voltage increase with a clockwise rotation, and the dials are graduated from 0 ~ 100% of the voltage setting.

Fig.	Input Voltage	Input Frequency (Hz)	Output Voltage	Maximum Output Constant Current Load		Net Weight (lbs.)	Digi-Key Part No.	Price Each			Staco Part No.
								1	5	10	
1	120	60	0 ~ 132	2.5A	.33KVA	5	452-1000-ND	279.36	261.90	244.44	3PN221B
	120	50/60	0 ~ 140	5.0A‡	.70KVA	7	452-1001-ND	301.44	282.60	263.76	3PN501B
2	120	50/60	0 ~ 140	10A‡	1.4KVA	10 1/4	452-1003-ND	319.68	299.70	279.72	3PN1010B
	120	50/60	0 ~ 140	10A‡	1.4KVA	10 1/4	452-1004-ND†	535.68	502.20	468.72	3PN1010BV
	120	60	0 ~ 120	12A‡	1.44KVA	10 1/4	452-1006-ND◆	370.56	347.40	324.24	3PN1210B
	120	50/60	0 ~ 140	15A‡	2.10KVA	18	452-1007-ND◆	587.52	550.80	514.08	3PN1510B
	120	50/60	0 ~ 140	22A‡	3.08KVA	24	452-1009-ND◆	840.00	787.50	735.00	3PN2210B
	240	50/60	0 ~ 280	3.5A‡	.98KVA	10 1/4	452-1005-ND	383.04	359.10	335.16	3PN1020B
	240	50/60	0 ~ 280	9.5A‡	2.66KVA	22	452-1008-ND◆	587.52	550.80	514.08	3PN1520B

‡ Unit is fused for the constant current rating at the factory. † With Voltmeter ◆ ***RoHS Compliant***

Fig. 1

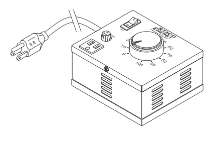

Fig. 2

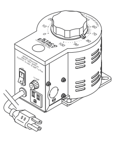

HAMMOND MANUFACTURING™

Filament and Low Voltage Rectifier Use Transformers

#E50394 #LR3902

Fig. 1 – Open Style: • Primary 115VAC, 60 Hz • Open style, channel bracket, two hole chassis mount • Min. 6" (15.24cm) leads • Dual bobbin design, no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS

Fig. 2 – High Current - Open Frame: • Primary 115VAC, 60 Hz • Open style, four hole frame chassis mount • Min. 6" (15.24cm) leads • Dual bobbin design, no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS

Fig.	Volts† AC	Amps	Dimensions - Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	5	10	25	Hammond Part No.
1	6.3	0.6	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM505-ND	14.73	14.18	13.85	12.96	166G6
	6.3	4.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM508-ND	15.71	15.12	14.77	13.83	166N6
	8.5	2.0	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM510-ND	19.64	18.90	18.46	17.28	166L8
	9.0	0.5	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM511-ND	21.11	20.32	19.85	18.58	166G9
	10.0	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM513-ND	19.64	18.90	18.46	17.28	166J10
	10.0	2.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM514-ND	15.71	15.12	14.77	13.83	166L10
	10.0	3.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM515-ND	23.56	22.68	22.15	20.74	166M10
	12.6	0.3	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM517-ND	14.73	14.18	13.85	12.96	166F12
	12.6	0.5	2.81 (71.37)	1.50 (38.10)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM518-ND	21.60	20.79	20.31	19.01	166G12
	12.6	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM519-ND	19.64	18.90	18.46	17.28	166J12
	12.6	2.5	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM520-ND	19.64	18.90	18.46	17.28	166L12
	12.6	4.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM521-ND	23.56	22.68	22.15	20.74	166N12
	12.6	6.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.60)	3.56 (90.42)	—	—	0.187 (4.75)	HM522-ND	31.42	30.24	29.54	27.65	166Q12
	12.6	8.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM523-ND	51.05	49.14	48.00	44.93	166R12
2	12.6	20.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM525-ND	78.05	75.13	73.38	68.69	165V12
1	14.0	2.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM529-ND	21.60	20.79	20.31	19.01	166L14
	16.0	2.2	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM533-ND	17.67	17.01	16.62	15.56	166L16
	16.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM534-ND	21.60	20.79	20.31	19.01	166M16
	18.0	1.5	3.25 (82.50)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM535-ND	17.67	17.01	16.62	15.56	166K18
	18.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM536-ND	23.56	22.68	22.15	20.74	166M18
	18.0	5.0	4.03 (102.36)	2.50 (63.50)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM537-ND	29.45	28.35	27.69	25.92	166P18
	20.0	2.0	3.69 (93.73)	1.88 (47.75)	2.31 (56.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM543-ND	21.60	20.79	20.31	19.01	166L20
2	22.0	12.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM544-ND	79.38	76.41	74.62	69.86	165T22
1	24.0	.085	2.06 (52.32)	1.38 (35.05)	1.19 (30.23)	1.75 (44.45)	—	—	0.187 (4.75)	HM546-ND	10.80	10.40	10.16	9.51	166C24
	24.0	2.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM547-ND	21.60	20.79	20.31	19.01	166L24
	24.0	4.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM548-ND	31.42	30.24	29.54	27.65	166N24
	25.0	0.5	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM552-ND	20.62	19.85	19.39	18.15	166G25
	25.0	1.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM553-ND	15.71	15.12	14.77	13.83	166J25
	25.0	1.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM554-ND	27.49	26.46	25.85	24.20	166K25
	25.0	3.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM556-ND	29.45	28.35	27.69	25.92	166M25
2	25.0	10.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM558-ND	74.87	72.07	70.39	65.89	165S25
1	28.0	1.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM560-ND	21.60	20.79	20.31	19.01	166J28
2	30.0	5.0	3.00 (76.20)	3.25 (82.55)	2.56 (65.02)	2.50 (63.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM561-ND	60.40	58.14	56.78	53.16	165P30
	30.0	10.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM562-ND	81.78	78.72	76.88	71.97	165S30
1	36.0	0.5	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM566-ND	21.60	20.79	20.31	19.01	166G36
	36.0	1.0	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM567-ND	26.51	25.52	24.92	23.33	166J36
	44.0	1.0	3.69 (93.73)	2.00 (50.80)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM568-ND	31.42	30.24	29.54	27.65	166J44
	80.0	0.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM569-ND	29.45	28.35	27.69	25.92	166G80

† Center tap voltage is half the voltage shown. All voltage ratings are based on full load current rating shown.

Fig. 1

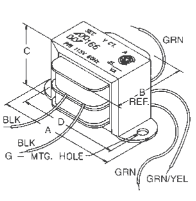

Fig. 2

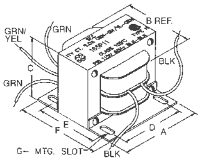

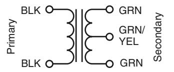

Schematic Drawing for "Open" and "High Current-Open Frame" styles.

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Power Transformers

For PC Board Solid-State Power, Control and Instrumentation Applications

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• 115V Single or 115/230V 50/60Hz dual primary • Split Bobbin Construction: – Center flange insulation barrier – High isolation for low leakage applications – Low capacitive coupling minimizes line noise and false triggering • 2,500V RMS (Pri: Sec) dielectric withstand • Precision spaced terminals • 130°C Class B insulation system • Terminal numbers are molded on bobbin • 1.1VA size Inherently limited and all others Non-Inherently limited

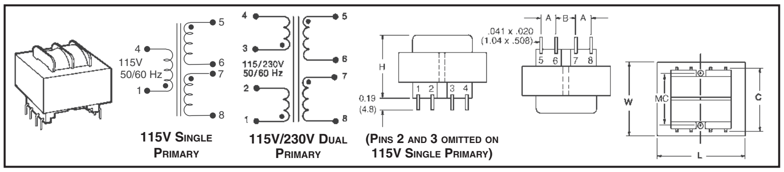

115V Single Primary

115V/230V Dual Primary

(Pins 2 and 3 omitted on 115V Single Primary)

3F(X) Series	VA Size	Dimensions – Inch (mm) L	W	H	MC	A	B	C	Weight Lbs. (kg)
2	1.1	1.44 (36.58)	1.23 (31.24)	1.00 (25.40)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.17 (.077)
3	2.4	1.44 (36.58)	1.23 (31.24)	1.26 (32.00)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.25 (.113)
4	6	1.69 (42.93)	1.39 (35.31)	1.36 (34.54)	1.063 (27.00)	.250 (6.35)	.350 (8.89)	1.280 (32.51)	0.44 (.200)
5	12	1.97 (50.04)	1.63 (41.40)	1.50 (38.10)	1.250 (31.75)	.300 (7.62)	.400 (10.16)	1.410 (35.81)	0.70 (.318)

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
115V Single Primary									
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2201-ND	4.00	3.20	2.56	2.40	2.16	3FS-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2202-ND	4.23	3.38	2.71	2.54	2.29	3FS-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2203-ND	7.85	6.28	5.03	4.71	4.24	3FS-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2204-ND	10.38	8.30	6.64	6.23	5.61	3FS-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2205-ND	4.00	3.20	2.56	2.40	2.16	3FS-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2206-ND	4.23	3.38	2.71	2.54	2.29	3FS-312
6	6.3 @ 1.000	12.6 @ 0.500	MT2207-ND	7.85	6.28	5.03	4.71	4.24	3FS-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2208-ND	10.38	8.30	6.64	6.23	5.61	3FS-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2209-ND	4.00	3.20	2.56	2.40	2.16	3FS-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2210-ND	4.23	3.38	2.71	2.54	2.29	3FS-316
6	8.0 @ 0.800	16.0 @ 0.400	MT2211-ND	7.85	6.28	5.03	4.71	4.24	3FS-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2212-ND	10.38	8.30	6.64	6.23	5.61	3FS-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2213-ND	4.00	3.20	2.56	2.40	2.16	3FS-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2214-ND	4.23	3.38	2.71	2.54	2.29	3FS-320
6	10.0 @ 0.600	20.0 @ 0.300	MT2215-ND	7.85	6.28	5.03	4.71	4.24	3FS-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2216-ND	10.38	8.30	6.64	6.23	5.61	3FS-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2217-ND	4.00	3.20	2.56	2.40	2.16	3FS-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2218-ND	4.23	3.38	2.71	2.54	2.29	3FS-324
6	12.0 @ 0.500	24.0 @ 0.250	MT2219-ND	7.85	6.28	5.03	4.71	4.24	3FS-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2220-ND	10.38	8.30	6.64	6.23	5.61	3FS-524
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2222-ND	4.23	3.38	2.71	2.54	2.29	3FS-328
6	14.0 @ 0.400	28.0 @ 0.200	MT2223-ND	7.85	6.28	5.03	4.71	4.24	3FS-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2224-ND	10.38	8.30	6.64	6.23	5.61	3FS-528
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2226-ND	4.23	3.38	2.71	2.54	2.29	3FS-336
6	18.0 @ 0.340	36.0 @ 0.170	MT2227-ND	7.85	6.28	5.03	4.71	4.24	3FS-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2228-ND	10.38	8.30	6.64	6.23	5.61	3FS-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2229-ND	4.00	3.20	2.56	2.40	2.16	3FS-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2230-ND	4.23	3.38	2.71	2.54	2.29	3FS-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2231-ND	7.85	6.28	5.03	4.71	4.24	3FS-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2232-ND	10.38	8.30	6.64	6.23	5.61	3FS-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2233-ND	4.00	3.20	2.56	2.40	2.16	3FS-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2234-ND	4.23	3.38	2.71	2.54	2.29	3FS-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2235-ND	7.85	6.28	5.03	4.71	4.24	3FS-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2236-ND	10.38	8.30	6.64	6.23	5.61	3FS-556

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
115V/230V Dual Primary									
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2096-ND	4.13	3.30	2.64	2.48	2.23	3FD-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2097-ND	4.63	3.70	2.96	2.78	2.50	3FD-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2098-ND	8.25	6.60	5.28	4.95	4.46	3FD-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2099-ND	11.20	8.96	7.17	6.72	6.05	3FD-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2101-ND	4.13	3.30	2.64	2.48	2.23	3FD-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2102-ND	4.63	3.70	2.96	2.78	2.50	3FD-312
6	6.3 @ 1.000	12.6 @ 0.500	MT2103-ND	8.25	6.60	5.28	4.95	4.46	3FD-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2104-ND	11.20	8.96	7.17	6.72	6.05	3FD-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2105-ND	4.13	3.30	2.64	2.48	2.23	3FD-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2106-ND	4.63	3.70	2.96	2.78	2.50	3FD-316
6	8.0 @ 0.800	16.0 @ 0.400	MT2107-ND	8.25	6.60	5.28	4.95	4.46	3FD-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2108-ND	11.20	8.96	7.17	6.72	6.05	3FD-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2109-ND	4.13	3.30	2.64	2.48	2.23	3FD-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2110-ND	4.63	3.70	2.96	2.78	2.50	3FD-320
6	10.0 @ 0.600	20.0 @ 0.300	MT2111-ND	8.25	6.60	5.28	4.95	4.46	3FD-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2112-ND	11.20	8.96	7.17	6.72	6.05	3FD-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2113-ND	4.13	3.30	2.64	2.48	2.23	3FD-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2114-ND	4.63	3.70	2.96	2.78	2.50	3FD-324
6	12.0 @ 0.500	24.0 @ 0.250	MT2115-ND	8.25	6.60	5.28	4.95	4.46	3FD-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2116-ND	11.20	8.96	7.17	6.72	6.05	3FD-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2117-ND	4.13	3.30	2.64	2.48	2.23	3FD-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2118-ND	4.63	3.70	2.96	2.78	2.50	3FD-328
6	14.0 @ 0.400	28.0 @ 0.200	MT2119-ND	8.25	6.60	5.28	4.95	4.46	3FD-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2120-ND	11.20	8.96	7.17	6.72	6.05	3FD-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2121-ND	4.13	3.30	2.64	2.48	2.23	3FD-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2122-ND	4.63	3.70	2.96	2.78	2.50	3FD-336
6	18.0 @ 0.340	36.0 @ 0.170	MT2123-ND	8.25	6.60	5.28	4.95	4.46	3FD-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2124-ND	11.20	8.96	7.17	6.72	6.05	3FD-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2125-ND	4.13	3.30	2.64	2.48	2.23	3FD-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2126-ND	4.63	3.70	2.96	2.78	2.50	3FD-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2127-ND	8.25	6.60	5.28	4.95	4.46	3FD-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2128-ND	11.20	8.96	7.17	6.72	6.05	3FD-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2129-ND	4.13	3.30	2.64	2.48	2.23	3FD-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2130-ND	4.63	3.70	2.96	2.78	2.50	3FD-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2131-ND	8.25	6.60	5.28	4.95	4.46	3FD-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2132-ND	11.20	8.96	7.17	6.72	6.05	3FD-556

Note: To obtain output voltage, load current must be met, ratings are based on nominal input.

Worldtrans® Power Transformers

For PC Board Solid-State Power, Control, and Instrumentation Applications

TAMURA

Specifications:
• Meets US and International Safety Standards: UL, EN, CSA • Dual non-concentric bobbin and insulating shroud provide high isolation and reduce capacitance • Dielectric Withstand: 3750Vrms (Pri: Sec) • Safety: Conforms to construction requirements of UL1411, UL506, UL1446, EN61558-1, EN61558-2-6, CSA No. 66 • Insulation System: 130°C UL recognized Electrical Insulation System • Insulating materials meet 94V-0 flammability requirements • Non-Inherently limited • Primary: 115/230VAC, 50/60Hz

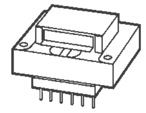

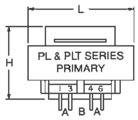

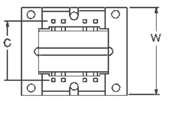

CSA No.66
File #069222

EN61558-1,-2-6
TUV File #2065818

Fig. 1

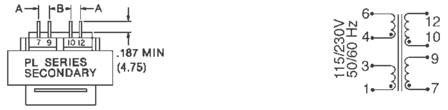

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UL506 File #E79781
UL1411 File #E138028

Fig. 2

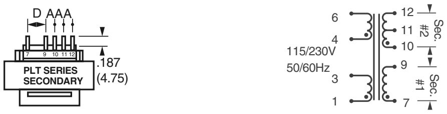

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TUV File #2065818

UL506 File #E79781
UL1411 File #E138028

VA Size	Dimensions – Inch (mm)							Mtg. Screw	Pin Square In. (mm)	Wt. Lbs. (kg)
	L	W	H	A†	B	C	D			
2.5	1.625 (41.28)	1.313 (33.35)	1.125 (28.58)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	—	2x #4	.025 (.64)	.25 (.11)
5.0	1.625 (41.28)	1.313 (33.35)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	—	2x #4	.025 (.64)	.37 (.17)
10.0	1.875 (47.63)	1.563 (39.70)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	—	2x #4	.036 (.91)	.53 (.24)
20.0	2.250 (57.15)	1.875 (47.63)	1.625 (41.28)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.40 (10.16)	2x #4	.036 (.91)	.90 (.41)
30.0	2.625 (66.68)	2.188 (55.58)	1.563 (39.70)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.55 (13.97)	4x #4	.045 (1.14)	1.15 (.52)
56.0	3.000 (76.20)	2.500 (63.50)	1.845 (46.86)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.60 (15.24)	4x #6	.045 (1.14)	1.70 (.77)

† For PLT series secondary only, dimension A is 1/2 of value shown.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
				PL Series — Dual Output Low Profile				
1	2.5	5 @ 0.5	10 @ 0.25	MT3101-ND◆	7.60	6.08	4.87	PL2.5-10-130B
	5.0	5 @ 1.0	10 @ 0.5	MT3102-ND◆	7.38	5.90	4.72	PL5.0-10-130B
	10.0	5 @ 2.0	10 @ 1.0	MT3103-ND◆	10.43	8.34	6.68	PL10-10-130B
	20.0	5 @ 4.0	10 @ 2.0	MT3104-ND◆	13.78	11.02	8.82	PL20-10-130B
	30.0	5 @ 6.0	10 @ 3.0	MT3105-ND	17.65	14.12	11.30	PL30-10-130B
	56.0	5 @ 11.2	10 @ 5.6	MT3106-ND◆	26.73	21.38	17.11	PL56-10-130B
	2.5	6.3 @ 0.4	12.6 @ 0.2	MT3107-ND	7.60	6.08	4.87	PL2.5-12-130B
	5.0	6.3 @ 0.8	12.6 @ 0.4	MT3108-ND◆	7.38	5.90	4.72	PL5.0-12-130B
	10.0	6.3 @ 1.6	12.6 @ 0.8	MT3109-ND◆	10.30	8.24	6.60	PL10-12-130B
	20.0	6.3 @ 3.2	12.6 @ 1.6	MT3110-ND◆	13.78	11.02	8.82	PL20-12-130B
	30.0	6.3 @ 4.8	12.6 @ 2.4	MT3111-ND◆	17.65	14.12	11.30	PL30-12-130B
	56.0	6.3 @ 8.8	12.6 @ 4.4	MT3112-ND◆	26.73	21.38	17.11	PL56-12-130B
	2.5	8 @ 0.3	16 @ 0.15	MT3113-ND◆	7.60	6.08	4.87	PL2.5-16-130B
	5.0	8 @ 0.62	16 @ 0.31	MT3114-ND◆	7.30	5.84	4.68	PL5.0-16-130B
	10.0	8 @ 1.25	16 @ 0.62	MT3115-ND◆	10.30	8.24	6.60	PL10-16-130B
	20.0	8 @ 2.5	16 @ 1.25	MT3116-ND◆	13.78	11.02	8.82	PL20-16-130B
	30.0	8 @ 3.8	16 @ 1.9	MT3117-ND◆	17.65	14.12	11.30	PL30-16-130B
	56.0	8 @ 7.0	16 @ 3.5	MT3118-ND◆	26.73	21.38	17.11	PL56-16-130B
	2.5	10 @ 0.24	20 @ 0.12	MT3119-ND◆	7.60	6.08	4.87	PL2.5-20-130B
	5.0	10 @ 0.5	20 @ 0.25	MT3120-ND◆	7.30	5.84	4.68	PL5.0-20-130B
	10.0	10 @ 1.0	20 @ 0.5	MT3121-ND◆	10.43	8.34	6.68	PL10-20-130B
	20.0	10 @ 2.0	20 @ 1.0	MT3122-ND◆	13.78	11.02	8.82	PL20-20-130B
	30.0	10 @ 3.0	20 @ 1.5	MT3123-ND◆	17.65	14.12	11.30	PL30-20-130B
	56.0	10 @ 5.6	20 @ 2.8	MT3124-ND	26.73	21.38	17.11	PL56-20-130B
	2.5	12 @ 0.2	24 @ 0.1	MT3125-ND◆	7.60	6.08	4.87	PL2.5-24-130B
	5.0	12 @ 0.42	24 @ 0.21	MT3126-ND◆	7.30	5.84	4.68	PL5.0-24-130B
	10.0	12 @ 0.84	24 @ 0.42	MT3127-ND◆	10.43	8.34	6.68	PL10-24-130B
	20.0	12 @ 1.66	24 @ 0.83	MT3128-ND◆	13.78	11.02	8.82	PL20-24-130B
	30.0	12 @ 2.5	24 @ 1.25	MT3129-ND◆	17.65	14.12	11.30	PL30-24-130B
	56.0	12 @ 4.66	24 @ 2.33	MT3130-ND◆	26.73	21.38	17.11	PL56-24-130B
	5.0	14 @ 0.36	28 @ 0.18	MT3132-ND◆	7.38	5.90	4.72	PL5.0-28-130B
	10.0	14 @ 0.72	28 @ 0.36	MT3133-ND◆	10.43	8.34	6.68	PL10-28-130B
	20.0	14 @ 1.44	28 @ 0.72	MT3134-ND◆	13.78	11.02	8.82	PL20-28-130B
	30.0	14 @ 2.12	28 @ 1.06	MT3135-ND◆	17.65	14.12	11.30	PL30-28-130B
	56.0	14 @ 4.0	28 @ 2.0	MT3136-ND◆	26.73	21.38	17.11	PL56-28-130B
	2.5	18 @ 0.14	36 @ 0.07	MT3137-ND	7.60	6.08	4.87	PL2.5-36-130B
	5.0	18 @ 0.28	36 @ 0.14	MT3138-ND	7.30	5.84	4.68	PL5.0-36-130B
	10.0	18 @ 0.56	36 @ 0.28	MT3139-ND	10.43	8.34	6.68	PL10-36-130B
	20.0	18 @ 1.12	36 @ 0.56	MT3140-ND◆	13.78	11.02	8.82	PL20-36-130B
	30.0	18 @ 1.64	36 @ 0.82	MT3141-ND◆	17.65	14.12	11.30	PL30-36-130B
	56.0	18 @ 3.12	36 @ 1.56	MT3142-ND◆	26.73	21.38	17.11	PL56-36-130B

Fig.	VA (Size)	Sec. #1 VAC @ A	Sec. #2 VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
				PLT Series — Triple Output				
2	20.0	9.3 @1.5	27.5 @ .22	MT3143-ND†	14.03	11.22	8.98	PLT20-32-130B
	30.0	9.3 @ 2.2	27.5 @ .34	MT3144-ND†	17.78	14.22	11.38	PLT30-32-130B
	56.0	9.3 @4.0	27.5 @ .68	MT3145-ND◆†	26.73	21.38	17.11	PLT56-32-130B

Note: *To obtain output voltage, load current must be met, ratings based on nominal input voltage.*
◆ RoHS Compliant † Intended for use as a regulated power supply transformer, example: 5VDC and ±12VDC. * Call for price on quantities of 50 or more.

FLAT STACK® Low Profile Power Transformers

For low height PC Board Solid-State Power, Control, and Instrumentation

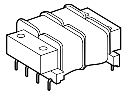

Split Bobbin:

- Primaries and secondaries wound side by side
- High isolation for low leakage applications 1,500Vrms (Pri: Sec) Dielectric withstand
- Low capacity coupling minimizes line noise and false triggering.
- Hum-bucking semi-toroidal construction
- Non-Inherently limited
- Dual primaries: 115/230V, 50/60Hz

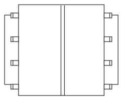

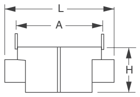

UL 506 File #E145619, E79781
130°C Insulation System, File# E92957

CSA22,2 No. 66
File # 081383

Fig. 1

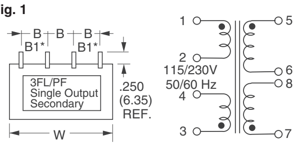

Fig. 2

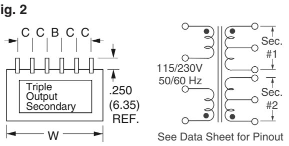

See Data Sheet for Pinout

VA (Size)	Dimensions – Inch L	W	H	A	B	B1*	C	Weight Oz. (Gram)
2.5	1.87	1.56	0.65	1.6	.375	—	.187	5 (141.75)
6.0	1.87	1.56	0.85	1.6	.375	—	.187	7 (198.44)
12.0	2.5	2.0	1.065	2.0	.500	—	.250	11 (311.84)
24.0	2.87	2.25	1.25	1.9	.530	.600	.300	15 (425.24)

B1* : For PF24 Series only.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
1	2.5	5.0 @ 0.5	10 @ 0.25	MT1101-ND	9.48	7.58	6.07	3FL10-250
	6.0	5.0 @ 1.2	10 @ 0.6	MT1102-ND◆	10.85	8.68	6.95	3FL10-600
	12.0	5.0 @ 2.4	10 @ 1.2	MT1103-ND◆	20.60	16.48	13.19	3FL10-1200
	24.0	5.0 @ 4.8	10 @ 2.4	MT1104-ND◆	24.33	19.46	15.57	PF24-10
	2.5	6.3 @ 0.4	12.6 @ 0.2	MT1105-ND◆	9.48	7.58	6.07	3FL12-200
	6.0	6.3 @ 0.9	12.6 @ 0.45	MT1106-ND◆	10.85	8.68	6.95	3FL12-475
	12.0	6.3 @ 1.9	12.6 @ 0.95	MT1107-ND◆	20.93	16.74	13.40	3FL12-950
	24.0	6.3 @ 3.8	12.6 @ 1.9	MT1108-ND◆	24.33	19.46	15.57	PF24-12
	2.5	8 @ 0.3	16 @ 0.15	MT1109-ND◆	9.48	7.58	6.07	3FL16-150
	6.0	8 @ 0.7	16 @ 0.35	MT1110-ND◆	10.83	8.66	6.93	3FL16-350
	12.0	8 @ 1.5	16 @ 0.75	MT1111-ND◆	20.93	16.74	13.40	3FL16-700
	2.5	10 @ 0.25	20 @ 0.125	MT1113-ND◆	9.48	7.58	6.07	3FL20-125
	6.0	10 @ 0.6	20 @ 0.3	MT1114-ND◆	10.88	8.70	6.96	3FL20-300
	12.0	10 @ 1.2	20 @ 0.6	MT1115-ND◆	20.93	16.74	13.40	3FL20-600
	24.0	10 @ 2.4	20 @ 1.2	MT1116-ND◆	24.33	19.46	15.57	PF24-20
	2.5	12 @ 0.2	24 @ 0.1	MT1117-ND◆	9.48	7.58	6.07	3FL24-100
	6.0	12 @ 0.5	24 @ 0.25	MT1118-ND◆	10.85	8.68	6.95	3FL24-250
	12.0	12 @ 1.0	24 @ 0.5	MT1119-ND	20.93	16.74	13.40	3FL24-500
	24.0	12 @ 2.0	24 @ 1.0	MT1120-ND◆	23.25	18.60	14.88	PF24-24
	2.5	15 @ 0.17	30 @ 0.085	MT1121-ND◆	9.48	7.58	6.07	3FL30-85
	6.0	15 @ 0.4	30 @ 0.2	MT1122-ND◆	11.20	8.96	7.17	3FL30-200
	12.0	15 @ 0.8	30 @ 0.4	MT1123-ND◆	20.93	16.74	13.40	3FL30-400
	24.0	15 @ 1.6	30 @ 0.8	MT1124-ND	24.33	19.46	15.57	PF24-30
	2.5	17 @ 0.15	34 @ .075	MT1125-ND◆	9.48	7.58	6.07	3FL34-75
	6.0	17 @ 0.34	34 @ 0.17	MT1126-ND◆	10.83	8.66	6.93	3FL34-170
	12.0	17 @ 0.7	34 @ 0.35	MT1127-ND◆	20.93	16.74	13.40	3FL34-340
	24.0	17 @ 1.4	34 @ 0.7	MT1128-ND◆	23.43	18.74	15.00	PF24-34

Fig.	VA (Size)	Sec. #1 VCT @ A	Sec. #2 VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
				PFT Series — Up to 4 Outputs				
2	6.0	17.5 @ .155	31.5@ .065	MT1129-ND◆†	11.45	9.16	7.33	PFT6-32
	6.0	17.5 @ .155	37.5 @ .060	MT1130-ND†	11.48	9.18	7.35	PFT6-38
	12.0	16 @ .36	35 @ .150	MT1131-ND◆†	22.03	17.62	14.10	PFT12-35
	24.0	16 @ .72	28 @ .375	MT1134-ND◆†	25.38	20.30	16.24	PFT24-28
	24.0	16 @ .72	35 @ .300	MT1133-ND◆†	25.38	20.30	16.24	PFT24-35

Note: *To obtain output voltage, load current must be met, ratings based on nominal input*
◆ RoHS Compliant † Intended for use as a regulated power supply transformer, Example: 5VDC, and ± 12VDC or ± 15VDC
* Call for price on quantities of 50 or more

Telephone Coupling Transformers

UL1950 3rd Edition Safety Approval:

(Additional Safety Agency approvals may apply, UL60950/EN60950, see data sheet for qualifications): This product meets the UL 1950 standard in telecom agency safety ratings, this implies that they meet new creepage and clearance distance requirements of the telecommunication industry and safety agencies. UL #E208555

UL 1459 Safety Approval:

UL1459 is a trusted safety standard for interconnecting data/ voice communication lines and other isolation designs. • **Frequency Response:** 300 ~ 3,500Hz ±0.5dB • **Impedance Matching:** ±10% UL1459, FFC part 68, File #138028

Note: Drawings show maximum number of pins, actual parts may have fewer pins

Fig. 1

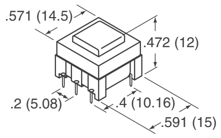

Fig. 2

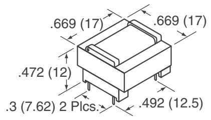

Fig. 3

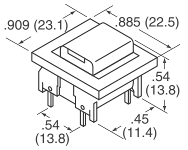

Fig. 4

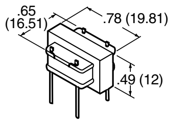

Fig. 5

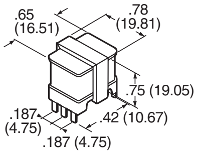

Fig. 6

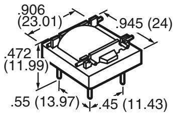

Fig. 7

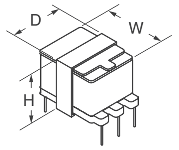

	Dimensions Inch (mm): W	D	H
MT4139-ND (TTC-167)	.69 (17.5)	.61 (15.5)	.55 (14.0)
MT4140-ND (TTC-170)	.51 (13.0)	53 (13.4)	.42 (10.7)

Schematics

A

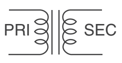

B

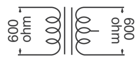

C

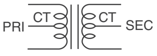

Fig.	Impedance (Ω) Primary	Impedance (Ω) Secondary	IDC Bias (mA)	Insertion Loss (dB)◊	Schematic	Pinout Primary	Pinout Secondary	Dielectric Strength Vrms (Pri./Sec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
						UL1950 3rd Edition Safety Approval							
1	600	600	0	1.50	A	1Δ - 3	4 - 6Δ	1,875	MT7207-ND	4.55	3.64	2.92	TTC-5017
2	600	600	0	1.00	A	1 - 3Δ	4Δ - 6	1,875	MT7213-ND	6.10	4.88	3.91	TTC-5029
3	600	301	65	3.75	A	1Δ - 2	3 - 4Δ	1,875	MT7236-ND	3.50	2.80	2.24	TTC-5020
						UL1459 Safety Approval							
4	600	600	0	1.0	A	1 - 3Δ	4 - 6Δ	1,500	MT4112-ND	6.83	5.46	4.37	T1104
	600	600	0	1.2	A	1 - 3	4 - 6Δ	1,500	MT4133-ND	6.75	5.40	4.32	TTC-02
5	600	600	90	2.0	A	1 - 3Δ	4 - 6Δ	1,500	MT4134-ND‡	5.70	4.56	3.65	TTC-105
	600	600CT	90	2.0	B	1 - 3	4-5CT-6Δ	1,500	MT4135-ND‡	5.20	4.16	3.33	TTC-105-1
	600CT	600CT	0	1.2	C	1Δ-2CT-3	4Δ-5CT-6	1,500	MT4136-ND	6.08	4.86	3.89	TTC-108
6	600	470	100	2.5	A	1 - 2Δ	3Δ - 4	1,500	MT4123-ND	5.00	4.00	3.20	TTC-264
7	10K	10K	0	1.4	A	1 - 3Δ	4 - 6Δ	1,000	MT4139-ND‡	6.15	4.92	3.94	TTC-167
	600	600	0	1.7	A	1 - 3Δ	4 - 6Δ	1,500	MT4140-ND‡	6.65	5.32	4.26	TTC-170

◊ Typical insertion loss (IL) in dB @ rated unbalanced maDC, 0dBm and 1kHz Δ Denotes start of a winding ‡ Has a 4-pin configuration

Encapsulated Transformers — MIL-T-27 Type

Telecom, Input, Interface, Isolation and Output Impedance Matching

Specifications:

- Operating Frequency: 0.3 ~ 100kHz
- Frequency Response: see datasheet
- Operating Temperature: 105°C Max.
- Withstand Voltage: 500Vrms (few models do meet 1kVrms, see datasheet)
- FCC Part 68 Models available

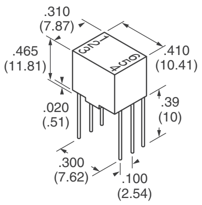

Pin configurations vary, see datasheet

Matching Impedance Primary : Secondary	Primary § (maDC)	Max. Power @ 300Hz (mW)	Pin Location Primary	Pin Location Secondary	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
200kCT : 1kCT	0.00	10	1 - 2CT - 3	4 - 5CT - 6	MT4143-ND◆	14.30	11.44	9.16	MET-01
25kCT : 1kCT	0.50	30	1 - 2CT - 3	4 - 5CT - 6	MT4144-ND◆	14.58	11.66	9.33	MET-05
10kCT : 10 kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4145-ND◆	15.33	12.26	9.81	MET-09
10kCT : 2kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4146-ND◆	13.78	11.02	8.82	MET-11
10kCT : 500CT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4147-ND◆	14.30	11.44	9.16	MET-17
1.6kCT : 3.2	2.50	65	1 - 2CT - 3	4 - 6	MT4148-ND◆	12.05	9.64	7.72	MET-23
1k : 50	3.00	50	1 - 3	4 - 6	MT4149-ND◆	11.03	8.82	7.06	MET-28
900CT : 600	3.00	50	1 - 2CT - 3	4 - 6	MT4150-ND	12.93	10.34	8.28	MET-29
600CT : 600CT	3.00	50	1 - 2CT - 3	4 - 5CT - 6	MT4111-ND◆	13.03	10.42	8.34	MET-31
600 : 600CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4151-ND◆	12.53	10.02	8.02	MET-32
600CT : 8	4.50	50	1 - 2CT - 3	4 - 6	MT4153-ND◆	11.93	9.54	7.64	MET-35
500 : 50	3.00	50	1 - 3	4 - 6	MT4155-ND◆	11.20	8.96	7.17	MET-39
150 : 12	10.00	50	1 - 3	4 - 6	MT4156-ND	11.88	9.50	7.60	MET-42
600 : 600	3.00	50	1 - 3	4 - 6	MT4110-ND	11.33	9.06	7.25	MET-46
600 : 600CT	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4152-ND◆Δ	12.88	10.30	8.24	MET-59

† CT-Winding can be connected as a center tapped winding or as two isolated windings. Δ Has special pinout § PRI maDC-Primary maximum rated unbalanced current in milli-amps, DC.
◆ ***RoHS Compliant***

TAMURA

Encapsulated Pulse Transformers Isolation and Data Interface

Specifications: • **Average Power Rating (40°C Rise):** 500mW • **Dissipation Rating:** 150mW • **Peak Pulse Voltage:** 100V • **Dielectric Strength:** DC500V 1 minute • **Insulation Resistance:** DC500V 10000MΩ minimum

RoHS COMPLIANT

Primary Inductance mH (min.)	Primary ET Product V µS (min.)	Rise Time ns (max.)	Pin Out			Turns Ratio (±5%) Pri : Sec : Ter	Digi-Key Part No.	Price Each			Tamura Part No.
			Primary	Secondary	Tertiary			1	10	25	
4.50	25.0	10.5	1, 2	3, 4	5, 6	1 : 1 : 1	MT4201-ND	9.35	7.48	5.99	G500
0.20	5.0	4.2	1, 2	3, 4	5, 6	1 : 1 : 1	MT4204-ND	6.48	5.18	4.15	G503
5.00	25.0	16.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4210-ND	12.58	10.06	8.05	G505
1.60	16.0	11.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4211-ND	10.03	8.02	6.42	G506
0.40	8.5	5.6	1, 2	3, 4	5, 6	2 : 1 : 1	MT4212-ND	7.43	5.94	4.76	G507
2.00	16.0	8.2	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4207-ND	6.80	5.44	4.36	G508
0.50	8.5	5.3	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4208-ND	6.35	5.08	4.07	G509
2.00	16.0	11.0	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4213-ND	7.55	6.04	4.84	G512
1.20	10.0	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4206-ND	7.75	6.20	4.96	G513
0.20	5.0	3.2	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4214-ND	6.70	5.36	4.29	G515
0.50	8.5	5.6	1, 2	3, 4	—	1 : 1.3	MT4209-ND	13.53	10.82	8.66	G516

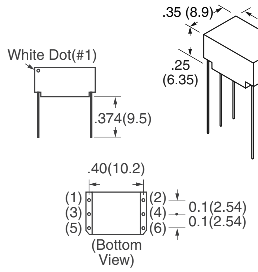

Pulse® A TECHNITROL COMPANY

Encapsulated Power Transformers

RoHS COMPLIANT

Encapsulated transformers have added advantages over non-encapsulated transformers. Reduced winding temperature differential due to heat transfer capability of the epoxy. Have a greater VA to Volume ratio which results in cooler and/or smaller transformers. Increased insulation reliability due to use of epoxy in place of tape/paper insulation. Encapsulation also increases shock/vibration and humidity/moisture resistance of the part.

Electrical Parameters:
- Temperature: 70°C
- Short Circuit Proof (unless otherwise noted)
- Hi-Pot tested: 4KV primary to secondary
- Frequency: 50/60Hz

Additional Agency Approvals (See chart below)

1	2	3	4	5
VDE	S	S	EN EC 10	FI

Fig. 1 - Mini Line Series

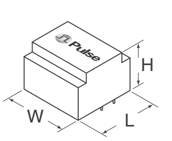

Fig. 2 - Print Line Series

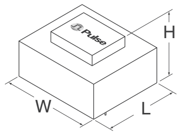

Dual Winding Connection Possibilities

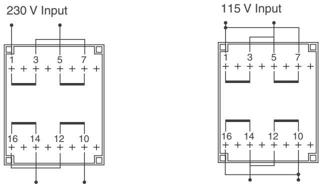

Series Connection **Parallel Connection**

Fig.	VA	Primary Voltage (VAC)	Secondary Voltage Ratings		Additional Agency Approvals	Dimensions Inches (mm)			Digi-Key Part No.	Price Each			Pulse Part No.
			Parallel Connection (VAC @ mA)	Series Connection (VAC @ mA)		L	W	H		1	10	50	
Single Primary / Single Secondary													
1	0.08	115	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1000-ND	5.13	3.52	2.96	BV020-5470.0
1	0.35	115	6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1004-ND	3.48	2.39	2.01	BV020-5411.0
1	0.50	115	6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1013-ND	4.17	2.86	2.41	BV020-5370.0
2	1	115	9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1025-5-ND	3.18	2.18	1.84	BV030-7221.0
2	1.5	115	9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1030-5-ND	3.36	2.30	1.94	BV030-7151.0
2	2.3	115	9 @ 256		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1035-5-ND*	3.84	2.63	2.22	BV030-7329.0
2	2.8	115	9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1040-5-ND*	4.59	3.15	2.65	BV030-7597.0
1	0.35	115	12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1005-ND	3.48	2.39	2.01	BV020-5413.0
1	0.50	115	12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1014-ND	4.17	2.86	2.41	BV020-5372.0
2	1.2	115	12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1028-5-ND	3.33	2.28	1.92	BV030-7258.0
2	1.5	115	12 @ 125		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1031-5-ND	3.36	2.30	1.94	BV030-7136.0
1	0.08	230	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1002-ND	5.13	3.52	2.96	BV020-5480.0
1	0.35	230	6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1010-ND	4.32	2.96	2.49	BV020-5423.0
1	0.50	230	6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1019-ND	4.92	3.37	2.84	BV020-5382.0
2	1	230	9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1027-5-ND	3.33	2.28	1.92	BV030-7233.0
2	1.5	230	9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1032-5-ND	3.39	2.32	1.96	BV030-7162.0
2	2.8	230	9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1042-5-ND*	4.26	2.92	2.46	BV030-7585.0
1	0.08	230	12 @ 6.67		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1003-ND	5.13	3.52	2.96	BV020-5482.0
1	0.35	230	12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1011-ND	4.32	2.96	2.49	BV020-5425.0
1	0.50	230	12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1020-ND	4.92	3.37	2.84	BV020-5384.0
2	1	230	12 @ 84		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1026-5-ND	3.33	2.28	1.92	BV030-7234.0
2	1.2	230	12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1029-5-ND	3.42	2.34	1.98	BV030-7270.0
2	2.3	230	12 @ 192		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1036-5-ND*	3.87	2.65	2.24	BV030-7342.0
2	2.3	230	24 @ 96		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1037-5-ND*	3.87	2.65	2.24	BV030-7345.0
Single Primary / Dual Secondary													
1	0.50	115	6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1016-ND	4.17	2.86	2.41	BV020-5376.0
1	0.50	230	6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1022-ND	5.25	3.60	3.03	BV020-5388.0
2	2.3	230	9 @ 256	18 @ 128	1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1039-5-ND*	3.99	2.73	2.30	BV030-7347.0
1	0.50	230	12 @ 42.0	24 @ 21.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1023-ND	5.25	3.60	3.03	BV020-5390.0
1	0.50	230	24 @ 20.0	48 @ 10.0	—	0.87 (22)	0.90 (23)	0.75 (19)	567-1024-ND	5.61	3.84	3.24	BV020-5393.0

* Not Short Circuit Proof

"Mini" Toroidal Transformer

Wire Leaded 115/230VAC, 50/60 Hz Dual Primary

UL File #E122978

Lower strayfield, higher efficiency, reduced "standby" current and reduced weight.

• Safety standard certification (UL 506) • UL certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary

Ambient operating temperature: 60°C maximum. Insulation system recognized for Class A (105°C) and meets all requirements of Class E (125°C).

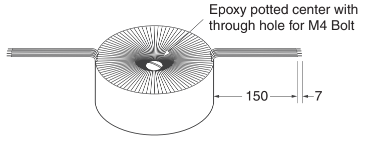

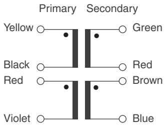

Power VA	Dimensions OD x ID x H mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	No Load mA	230V Fuse* mA	Max. Secondary Range VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	37.5 x 7.0 x 17.0	71	29	10	77	1	32	2.0	60	30	60	32
3.2	42.0 x 7.0 x 17.5	89	41	20	70	1.5	32	3.7	80	40	50	50
5.0	47.0 x 6.0 x 18.0	115	45	29	70	2	50	5.5	80	40	50	63
7.0	47.0 x 6.0 x 21.5	145	34	25	74	3	63	7.5	70	40	60	80
10.0	53.5 x 6.8 x 23.5	216	20	24	82	3	80	12	60	45	60	100
15.0	57.5 x 7.0 x 24.0	262	23	27	81	4	100	16	60	40	65	125
25.0	58.0 x 13.8 x 34.5	388	19	28	84	5	160	—	—	—	—	—
35.0	72.0 x 17.0 x 33.5	453	17.7	31	85	7	200	—	—	—	—	—
50.0	78.0 x 22.5 x 35.0	670	15.5	30	86	8	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE62000-ND◆	25.25	22.73	20.20	18.18	62000-P2S02
	9 @ .178	18 @ .089	TE62001-ND◆	25.25	22.73	20.20	18.18	62001-P2S02
	15 @ .106	30 @ .053	TE62003-ND	24.05	21.65	19.24	17.32	62003-P2S02
	18 @ .088	36 @ .044	TE62004-ND	24.05	21.65	19.24	17.32	62004-P2S02
	22 @ .072	44 @ .036	TE62005-ND	25.25	22.73	20.20	18.18	62005-P2S02
3.2	7 @ .458	14 @ .229	TE62010-ND◆	25.00	22.50	20.00	18.00	62010-P2S02
	9 @ .356	18 @ .178	TE62011-ND	25.00	22.50	20.00	18.00	62011-P2S02
	12 @ .266	24 @ .133	TE62012-ND	25.00	22.50	20.00	18.00	62012-P2S02
	15 @ .214	30 @ .107	TE62013-ND	23.80	21.42	19.04	17.14	62013-P2S02
	18 @ .178	36 @ .089	TE62014-ND◆	23.80	21.42	19.04	17.14	62014-P2S02
	22 @ .146	44 @ .073	TE62015-ND	25.00	22.50	20.00	18.00	62015-P2S02
5.0	7 @ .714	14 @ .357	TE62020-ND◆	25.58	23.02	20.46	18.42	62020-P2S02
	9 @ .556	18 @ .278	TE62021-ND◆	25.58	23.02	20.46	18.42	62021-P2S02
	12 @ .416	24 @ .208	TE62022-ND◆	25.58	23.02	20.46	18.42	62022-P2S02
	15 @ .334	30 @ .167	TE62023-ND	24.35	21.92	19.48	17.54	62023-P2S02
	18 @ .278	36 @ .139	TE62024-ND◆	24.35	21.92	19.48	17.54	62024-P2S02
	22 @ .228	44 @ .114	TE62025-ND	25.58	23.02	20.46	18.42	62025-P2S02
7.0	7 @ 1.0	14 @ .500	TE62030-ND	26.58	23.92	21.26	19.14	62030-P2S02
	9 @ .778	18 @ .389	TE62031-ND◆	26.58	23.92	21.26	19.14	62031-P2S02
	12 @ .584	24 @ .292	TE62032-ND◆	26.58	23.92	21.26	19.14	62032-P2S02
	15 @ .466	30 @ .233	TE62033-ND◆	26.58	23.92	21.26	19.14	62033-P2S02
	18 @ .388	36 @ .194	TE62034-ND◆	25.30	22.77	20.24	18.22	62034-P2S02
	22 @ .318	44 @ .159	TE62035-ND	25.30	22.77	20.24	18.22	62035-P2S02
10.0	7 @ 1.428	14 @ .714	TE62040-ND◆	30.08	27.07	24.06	21.66	62040-P2S02
	9 @ 1.112	18 @ .556	TE62041-ND◆	30.08	27.07	24.06	21.66	62041-P2S02
	12 @ .834	24 @ .417	TE62042-ND◆	30.08	27.07	24.06	21.66	62042-P2S02
	15 @ .666	30 @ .333	TE62043-ND◆	30.08	27.07	24.06	21.66	62043-P2S02
	18 @ .556	36 @ .278	TE62044-ND	30.08	27.07	24.06	21.66	62044-P2S02
	22 @ .454	44 @ .227	TE62045-ND	30.08	27.07	24.06	21.66	62045-P2S02
15.0	7 @ 2.142	14 @ 1.071	TE62050-ND◆	32.20	28.98	25.76	23.19	62050-P2S02
	9 @ 1.666	18 @ .833	TE62051-ND◆	32.20	28.98	25.76	23.19	62051-P2S02
	12 @ 1.250	24 @ .625	TE62052-ND◆	32.20	28.98	25.76	23.19	62052-P2S02
	15 @ 1.000	30 @ .500	TE62053-ND◆	32.20	28.98	25.76	23.19	62053-P2S02
	18 @ .834	36 @ .417	TE62054-ND◆	32.20	28.98	25.76	23.19	62054-P2S02
	22 @ .682	44 @ .341	TE62055-ND	32.20	28.98	25.76	23.19	62055-P2S02
25.0	7 @ 3.570	14 @ 1.785	TE62060-ND	32.75	29.48	26.20	23.58	62060-P2S02
	9 @ 2.754	18 @ 1.377	TE62061-ND	34.40	30.96	27.52	24.77	62061-P2S02
	12 @ 2.082	24 @ 1.041	TE62062-ND	34.40	30.96	27.52	24.77	62062-P2S02
	15 @ 1.664	30 @ .832	TE62063-ND◆	34.40	30.96	27.52	24.77	62063-P2S02
	18 @ 1.388	36 @ .694	TE62064-ND◆	34.40	30.96	27.52	24.77	62064-P2S02
	22 @ 1.136	44 @ .568	TE62065-ND◆	34.40	30.96	27.52	24.77	62065-P2S02
35.0	7 @ 5.000	14 @ 2.500	TE62070-ND	39.75	35.78	31.80	28.62	62070-P2S02
	9 @ 3.888	18 @ 1.944	TE62071-ND	39.75	35.78	31.80	28.62	62071-P2S02
	12 @ 2.916	24 @ 1.458	TE62072-ND◆	39.75	35.78	31.80	28.62	62072-P2S02
	15 @ 2.332	30 @ 1.166	TE62073-ND◆	39.75	35.78	31.80	28.62	62073-P2S02
	18 @ 1.944	36 @ .972	TE62074-ND	39.75	35.78	31.80	28.62	62074-P2S02
	22 @ 1.590	44 @ .795	TE62075-ND◆	43.68	39.31	34.94	31.45	62075-P2S02
50.0	9 @ 5.554	18 @ 2.777	TE62081-ND◆	48.13	43.32	38.50	34.65	62081-P2S02
	12 @ 4.166	24 @ 2.083	TE62082-ND◆	48.13	43.32	38.50	34.65	62082-P2S02
	15 @ 3.332	30 @ 1.666	TE62083-ND◆	48.13	43.32	38.50	34.65	62083-P2S02
	18 @ 2.776	36 @ 1.388	TE62084-ND◆	48.13	43.32	38.50	34.65	62084-P2S02
	22 @ 2.272	44 @ 1.136	TE62085-ND◆	48.13	43.32	38.50	34.65	62085-P2S02

Note: *To obtain output voltage, load current must be met.* ◆ ***RoHS Compliant***

Toroidal Transformer

PC Mount, Low Profile 115/230V, 50/60 Hz Dual Primary

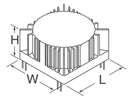

Low Magnetic strayfield emissions, higher efficiency, reduced "standby" current, reduced weight, fully encapsulated durable body formation.

• Safety standard certification (UL 506, UL 1950, UL File E122978, E138299) • VDE 0805, IEC 950, EN 60950 • UL and VDE certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary (VDE0550) • Maximum ambient temperature of 60°C for 1.6VA-25VA, 40°C for 35VA and 50VA models

Recognized for insulation Class A (105°C) and meets all requirements of Class E (125°C).

1.6-25VA - Blind insert M4 X 6 threads, 1.0 x 0.5mm pins
35-50VA - M5 through hole, 1.35mm diameter pins

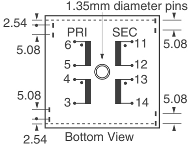

Bottom View

Power VA	Dimensions (Pin Length 5mm) L x W x H mm	Pin Pattern XY mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	Excitation Current mA	230V Fuse* mA	Max. Secondary Range VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	39.6 x 39.6 x 18.5	35.56	82	29	10	77	1.0	32	2.0	60	30	60	32
3.2	44.7 x 44.7 x 19.5	40.64	110	43	20	70	1.5	32	3.7	80	40	50	50
5.0	49.7 x 49.7 x 19.5	45.72	144	40	29	68	2.0	50	5.5	80	40	50	63
7.0	49.7 x 49.7 x 23.1	45.72	174	34	25	74	3.0	63	7.5	70	40	60	80
10.0	55.0 x 55.0 x 26.0	50.80	252	20	24	82	3.0	80	12.0	60	45	60	100
15.0	60.0 x 60.0 x 26.3	55.88	304	23	27	80	4.0	100	16.0	60	40	65	125
25.0	60.0 x 60.0 x 37.5	55.88	435	19	28	83	5.0	160	—	—	—	—	—
35.0	72.0 x 72.0 x 37.5	66.04	525	17.7	31	81	7.0	200	—	—	—	—	—
50.0	82.4 x 82.4 x 37.5	76.02	685	15.5	30	86	8.0	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE70000-ND◆	18.83	16.95	15.06	13.56	70000K
	9 @ .178	18 @ .089	TE70001-ND◆	17.38	15.64	13.90	12.51	70001K
	12 @ .134	24 @ .067	TE70002-ND◆	16.55	14.90	13.24	11.92	70002K
	15 @ .106	30 @ .053	TE70003-ND◆	18.83	16.95	15.06	13.56	70003K
	18 @ .088	36 @ .044	TE70004-ND	16.55	14.90	13.24	11.92	70004K
	22 @ .072	44 @ .036	TE70005-ND◆	16.55	14.90	13.24	11.92	70005K
3.2	7 @ .458	14 @ .229	TE70010-ND◆	20.10	18.09	16.08	14.48	70010K
	9 @ .356	18 @ .178	TE70011-ND	18.80	16.92	15.04	13.54	70011K
	15 @ .214	30 @ .107	TE70013-ND	20.35	18.32	16.28	14.66	70013K
	18 @ .178	36 @ .089	TE70014-ND◆	18.48	16.63	14.78	13.31	70014K
	22 @ .146	44 @ .073	TE70015-ND◆	18.48	16.63	14.78	13.31	70015K
5.0	7 @ .714	14 @ .357	TE70020-ND◆	19.18	17.26	15.34	13.81	70020K
	9 @ .556	18 @ .278	TE70021-ND◆	19.18	17.26	15.34	13.81	70021K
	12 @ .416	24 @ .208	TE70022-ND	19.18	17.26	15.34	13.81	70022K
	15 @ .334	30 @ .167	TE70023-ND	21.03	18.93	16.82	15.14	70023K
	18 @ .278	36 @ .139	TE70024-ND	19.18	17.26	15.34	13.81	70024K
	22 @ .228	44 @ .114	TE70025-ND	19.18	17.26	15.34	13.81	70025K
7.0	7 @ 1.0	14 @ .500	TE70030-ND◆	20.43	18.39	16.34	14.71	70030K
	9 @ .778	18 @ .389	TE70031-ND	19.43	17.49	15.54	13.99	70031K
	12 @ .584	24 @ .292	TE70032-ND◆	20.43	18.39	16.34	14.71	70032K
	15 @ .466	30 @ .233	TE70033-ND◆	20.43	18.39	16.34	14.71	70033K
	18 @ .388	36 @ .194	TE70034-ND◆	20.43	18.39	16.34	14.71	70034K
10.0	7 @ 1.428	14 @ .714	TE70040-ND◆	22.85	20.57	18.28	16.46	70040K
	9 @ 1.112	18 @ .556	TE70041-ND◆	22.85	20.57	18.28	16.46	70041K
	12 @ .834	24 @ .417	TE70042-ND◆	22.85	20.57	18.28	16.46	70042K
	15 @ .666	30 @ .333	TE70043-ND◆	23.98	21.58	19.18	17.27	70043K
	18 @ .556	36 @ .278	TE70044-ND◆	22.85	20.57	18.28	16.46	70044K
	22 @ .454	44 @ .227	TE70045-ND	23.98	21.58	19.18	17.27	70045K
15.0	7 @ 2.142	14 @ 1.071	TE70050-ND◆	27.53	24.78	22.02	19.82	70050K
	9 @ 1.666	18 @ .833	TE70051-ND◆	26.23	23.61	20.98	18.89	70051K
	12 @ 1.250	24 @ .625	TE70052-ND◆	26.23	23.61	20.98	18.89	70052K
	15 @ 1.000	30 @ .500	TE70053-ND◆	25.00	22.50	20.00	18.00	70053K
	18 @ .834	36 @ .417	TE70054-ND	25.00	22.50	20.00	18.00	70054K
	22 @ .682	44 @ .341	TE70055-ND	26.23	23.61	20.98	18.89	70055K
25.0	7 @ 3.570	14 @ 1.785	TE70060-ND◆	30.48	27.43	24.38	21.95	70060K
	9 @ 2.754	18 @ 1.377	TE70061-ND◆	30.48	27.43	24.38	21.95	70061K
	12 @ 2.082	24 @ 1.041	TE70062-ND	29.08	26.17	23.26	20.94	70062K
	15 @ 1.664	30 @ .832	TE70063-ND◆	29.08	26.17	23.26	20.94	70063K
	18 @ 1.388	36 @ .694	TE70064-ND◆	30.48	27.43	24.38	21.95	70064K
	22 @ 1.136	44 @ .568	TE70065-ND◆	30.48	27.43	24.38	21.95	70065K
35.0	7 @ 5.000	14 @ 2.500	TE70070-ND◆	40.05	36.05	32.04	28.84	70070K
	9 @ 3.888	18 @ 1.944	TE70071-ND	40.05	36.05	32.04	28.84	70071K
	12 @ 2.916	24 @ 1.458	TE70072-ND	40.05	36.05	32.04	28.84	70072K
	15 @ 2.332	30 @ 1.166	TE70073-ND◆	40.05	36.05	32.04	28.84	70073K
	18 @ 1.944	36 @ .972	TE70074-ND	40.05	36.05	32.04	28.84	70074K
	22 @ 1.590	44 @ .795	TE70075-ND◆	40.05	36.05	32.04	28.84	70075K
50.0	7 @ 7.142	14 @ 3.571	TE70080-ND	50.58	45.52	40.46	36.42	70080K
	9 @ 5.554	18 @ 2.777	TE70081-ND◆	52.33	47.10	41.86	37.68	70081K
	12 @ 4.166	24 @ 2.083	TE70082-ND	50.58	45.52	40.46	36.42	70082K
	15 @ 3.332	30 @ 1.666	TE70083-ND◆	50.58	45.52	40.46	36.42	70083K
	18 @ 2.776	36 @ 1.388	TE70084-ND	50.58	45.52	40.46	36.42	70084K
	22 @ 2.272	44 @ 1.136	TE70085-ND	50.58	45.52	40.46	36.42	70085K

Note: *To obtain output voltage, load current must be met.* ◆ ***RoHS Compliant***

Medical Grade Power and Isolation Transformers

Features: • Lifetime warranty • Quad Primaries: 100V, 120V, 220V, 240V ~ 50/60Hz • Mounting hardware: metal disk, (2) rubber gaskets (100VA - 750VA); potted center, (1) foam gasket (1000VA ~ 3000VA) • UL 544, UL 2601, IEC 601, CSA 22.2 No. 601.1 • 10" color coded wire leads

Nominal Power (VA)	Secondary Current @ 120VAC (A)	Secondary Current @ 240VAC (A)	Digi-Key Part No.	Price Each				Amveco Part No.
				1	10	25	50	
230	1.92	0.96	TE0230DS-ND	240.23	216.21	192.18	172.97	MT0230DS
400	3.33	1.67	TE0400DS-ND	280.78	252.70	224.62	202.16	MT0400DS
600	5.00	2.50	TE0600DS-ND	319.90	287.91	255.92	230.33	MT0600DS
750	6.25	3.12	TE0750DS-ND	311.25	280.13	249.00	224.10	MT0750DS
1000	8.33	4.16	TE1000DS-ND	357.45	321.71	285.96	257.37	MT1000DS
1500	12.5	6.25	TE1500DS-ND	517.55	465.80	414.04	372.64	MT1500DS
3000	25.0	12.5	TE3000DS-ND	681.23	613.11	544.98	490.49	MT3000DS

Note: *Multiple primaries must be connected in series or parallel. If assistance is needed, please contact Digi-Key Technical department for additional hook-up information.*

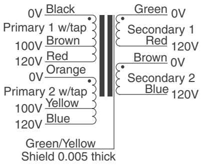

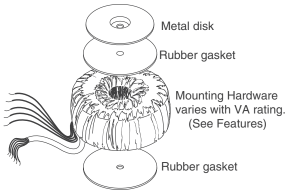

Nominal Power (VA)	Diameter x Thickness (Inches)	Weight (lb.)
230	4.6 x 2.4	5.2
400	5.5 x 2.5	8
600	6.2 x 3.1	13
750	6.6 x 3.1	14
1000	6.9 x 3.5	20
1500	8.2 x 4.0	28
3000	10.0 x 4.3	47

International Toroidal Power Transformers

Features: • Lifetime warranty • 2 x 117V/50-60Hz primaries • Class A (105°C) • Disk mounting hardware: metal disk, (2) rubber gaskets • 10" color coded wire leads

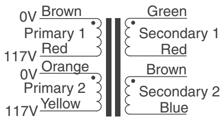

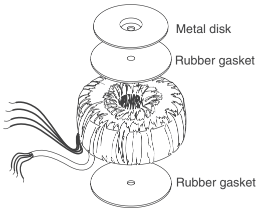

Nominal Power (VA)	Dia. x Thickness (Inches)	Weight (lb.)	Mounting Hole Size
95	3.9 x 1.5	2.2	1/4"
140	3.9 x 1.9	3	1/4"
240	4.5 x 2.1	4.8	1/4"
300	4.6 x 2.6	5.7	1/4"
460	5.4 x 2.6	7.9	1/4"
625	5.5 x 3.2	9.5	1/4"
800	6.4 x 2.7	12.3	5/16"
990	6.5 x 3.0	15.2	5/16"

Nominal Power (VA)	Secondary Ratings		Digi-Key Part No.	Price Each				Amveco Part No.
	Parallel VAC @ A	Series VCT @ A		1	10	25	50	
95	9 @ 10.6	18 @ 5.30	TE50952009-ND◆	109.08	98.17	87.26	78.54	AA50952-009
140	18 @ 7.80	36 @ 3.90	TE51402018-ND	113.63	102.27	90.90	81.81	AA51402-018
140	117 @ 1.20	234 @ 0.60	TE51402117-ND	120.38	108.34	96.30	86.67	AA51402-117
300	15 @ 20.00	30 @ 10.00	TE53002015-ND	153.28	137.95	122.62	110.36	AA53002-015
300	24 @ 12.40	48 @ 6.20	TE53002024-ND◆	152.93	137.64	122.34	110.11	AA53002-024
300	117 @ 2.60	234 @ 1.30	TE53002117-ND	155.55	140.00	124.44	112.00	AA53002-117
460	30 @ 15.40	60 @ 7.70	TE54602030-ND	202.78	182.50	162.22	146.00	AA54602-030
460	117 @ 4.00	234 @ 2.00	TE54602117-ND	208.48	187.63	166.78	150.11	AA54602-117
625	24 @ 26.00	48 @ 13.00	TE56252024-ND◆	226.43	203.79	181.14	163.03	AA56252-024
625	30 @ 20.80	60 @ 10.40	TE56252030-ND◆	236.43	212.79	189.14	170.23	AA56252-030
625	117 @ 5.40	234 @ 2.70	TE56252117-ND◆	351.65	316.49	281.32	253.19	AA56252-117
800	24 @ 33.40	48 @ 16.70	TE58002024-ND	279.33	251.40	223.46	201.12	AA58002-024
990	55 @ 18.00	110 @ 9.00	TE59902055-ND◆	300.73	270.66	240.58	216.53	AA59902-055

◆ ***RoHS Compliant***

Power Transformers for Audio Applications

Features:

- UL 6500 Audio Standard
- Low Audible Noise
- Low Magnetic Stray Field
- Non-Encapsulated Units
- Metal Disk Mounting

Nominal Power (VA)	Diameter x Thickness (Inches)	Weight (lb.)
100	3.4 x 1.5	1.7
240	4.0 x 1.8	3.3
400	4.5 x 2.2	5.3
600	5.3 x 2.3	7.7
1000	6.5 x 2.4	13.0

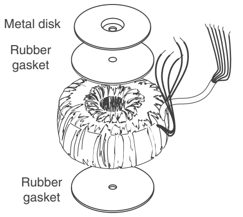

Nominal Power (VA)	Secondary Voltage (V)	Secondary Current (A)	Secondary No Load Voltage (V)	Digi-Key Part No.	Price Each				Amveco Part No.
					1	10	25	50	
100	2 x 9	5.55	10.5	TE60102-ND	74.48	67.03	59.58	53.63	60102
100	2 x 12	4.17	14.1	TE60103-ND	80.50	72.45	64.40	57.96	60103
100	2 x 15	3.33	17.6	TE60104-ND	79.70	71.73	63.76	57.39	60104
100	2 x 18	2.78	21.1	TE60105-ND	79.55	71.60	63.64	57.28	60105
240	2 x 15	8.00	16.5	TE60242-ND	101.25	91.13	81.00	72.90	60242
240	2 x 18	6.67	19.8	TE60243-ND	100.45	90.41	80.36	72.33	60243
240	2 x 24	5.00	26.4	TE60244-ND	100.13	90.12	80.10	72.09	60244
240	2 x 30	4.00	33.0	TE60245-ND	101.50	91.35	81.20	73.08	60245
400	2 x 15	13.33	16.3	TE60402-ND	133.70	120.33	106.96	96.27	60402
400	2 x 18	11.11	19.5	TE60403-ND	130.10	117.09	104.08	93.68	60403
400	2 x 24	8.33	26.0	TE60404-ND	125.08	112.57	100.06	90.06	60404
400	2 x 30	6.67	32.5	TE60405-ND	131.33	118.20	105.06	94.56	60405
600	2 x 15	20.00	15.9	TE60601-ND	167.50	150.75	134.00	120.60	60601
600	2 x 18	16.67	19.1	TE60602-ND	162.85	146.57	130.28	117.26	60602
600	2 x 24	12.50	25.4	TE60603-ND	164.48	148.03	131.58	118.43	60603
600	2 x 30	10.00	31.8	TE60604-ND	131.33	118.20	105.06	94.56	60604
1000	2 x 24	20.83	25.6	TE61001-ND	212.25	191.03	169.80	152.82	61001
1000	2 x 30	16.67	31.2	TE61002-ND	221.33	199.20	177.06	159.36	61002

Tightpak Toroidal Common Mode Line Choke

Actown's Toroid style of common mode chokes are designed with patented TIGHTpak™ technology. Within a single layer winding, 70% more turns are achievable over a traditional winding using the same size core and wire gauge. Parts are constructed to an industry standard footprint. Materials comply with 94V-0 flammability specifications. A 3mm spacer between each winding provides creepage and clearance to comply with UL, CSA and IEC safety specifications.

Inductance Minimum (mH)	Current Rating (A)	Leakage Induct. Max. (µH)	SRF Typical (khz)	DCR Maximum (Ω)	Lead Diameter Nominal (Inches)	PC Board Hole Diameter (Inches)	Digi-Key Part No.	Price Each				Actown Part No.
								1	10	25	50	
0.80	10	14	1480	0.010	0.051	0.070	TE0.8-10-ND	14.25	12.21	11.40	10.18	TPCM-0.8-10
1.00	8	18	1500	0.013	0.045	0.067	TE1.0-8-ND	14.00	12.00	11.20	10.00	TPCM-1.0-8
1.73	5	31	1070	0.025	0.036	0.055	TE1.7-5-ND	15.37	13.17	12.30	10.98	TPCM-1.7-5
2.41	5	45	775	0.036	0.036	0.055	TE2.4-5-ND	16.84	14.43	13.47	12.03	TPCM-2.4-5
2.83	3	50	755	0.049	0.029	0.047	TE2.8-3-ND	16.98	14.55	13.58	12.13	TPCM-2.8-3
3.27	10	49	635	0.022	0.051	0.070	TE3.3-10-ND	18.38	15.75	14.70	13.13	TPCM-3.3-10
3.78	13	65	510	0.021	0.057	0.079	TE3.8-13-ND	19.46	16.68	15.57	13.90	TPCM-3.8-13
3.93	3	71	550	0.063	0.029	0.047	TE3.9-3-ND	18.73	16.05	14.98	13.38	TPCM-3.9-3
4.35	8	60	545	0.036	0.045	0.067	TE4.4-8-ND	18.59	15.93	14.87	13.28	TPCM-4.4-8
5.57	10	83	400	0.031	0.051	0.070	TE5.6-10-ND	20.83	17.85	16.66	14.88	TPCM-5.6-10
6.61	5	94	450	0.059	0.036	0.055	TE6.6-5-ND	20.09	17.22	16.08	14.35	TPCM-6.6-5
6.96	8	109	350	0.044	0.045	0.067	TE7.0-8-ND	21.04	18.03	16.83	15.03	TPCM-7.0-8

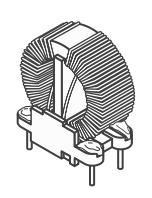

AlfaMag Electronics

NEW! Toroidal Transformers

AlfaMag Electronic PC Mount Toroidal Transformers are designed for applications requiring total output power from 1.6VA ~ 50VA. The PCB mountable encapsulated toroids offer the advantages of low stray magnetic field, low idling current, greater efficiency, and low audible noise over comparable E-I and U-I transformers. These toroids can be mounted directly onto the PCB.

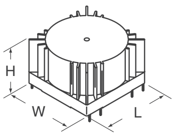

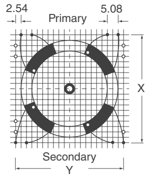

Maximum Power (VA)	Dimensions - mm			Pin Pattern - mm	Weight Total	Efficiency	230V Fuse
	L	W	H	XY	(g)	(%)	(mA)
1.6	39.6	39.6	18.5	35.56	80	77	32
3.2	44.7	44.7	19.5	40.64	110	70	32
5	49.7	49.7	19.5	45.72	144	68	50
7	49.7	49.7	23.1	45.72	174	74	63
10	55.0	55.0	26.0	50.8	252	82	80
15	60.0	60.0	26.3	55.88	304	80	100
25	60.0	60.0	37.5	55.88	435	83	100
35	72.0	72.0	37.5	66.04	590	82	200
50	82.4	82.4	37.5	76.2	800	85	315

Maximum Power (VA)	Parallel Output Voltage @ Current	Series Output Voltage @ Current	Digi-Key Part No.	Price Each 1	10	25	50	AlfaMag Part No.
1.6	7VAC @ 228mA	14VAC @ 114mA	TE2223-ND	13.58	12.22	10.86	9.78	L01-6300
	9VAC @ 178mA	18VAC @ 89mA	TE2224-ND	19.01	12.22	10.86	9.78	L01-6301
	12VAC @ 134mA	24VAC @ 67mA	TE2225-ND	13.58	12.22	10.86	9.78	L01-6302
	15VAC @ 106mA	30VAC @ 53mA	TE2226-ND	13.58	12.22	10.86	9.78	L01-6303
	18VAC @ 88mA	36VAC @ 44mA	TE2227-ND	19.01	12.22	10.86	9.78	L01-6304
3.2	7VAC @ 458mA	14VAC @ 229mA	TE2228-ND	14.93	13.44	11.94	10.75	L01-6310
	9VAC @ 356mA	18VAC @ 178mA	TE2229-ND	14.93	13.44	11.94	10.75	L01-6311
	12VAC @ 266mA	24VAC @ 133mA	TE2230-ND	20.90	17.91	16.72	14.93	L01-6312
	15VAC @ 214mA	30VAC @ 107mA	TE2231-ND	14.93	13.44	11.94	10.75	L01-6313
	18VAC @ 178mA	36VAC @ 89mA	TE2232-ND†	14.93	13.44	11.94	10.75	L01-6314
5	7VAC @ 714mA	14VAC @ 357mA	TE2233-ND	15.98	14.38	12.78	11.51	L01-6320
	9VAC @ 556mA	18VAC @ 278mA	TE2234-ND	15.98	14.38	12.78	11.51	L01-6321
	12VAC @ 416mA	24VAC @ 208mA	TE2235-ND	15.98	14.38	12.78	11.51	L01-6322
	15VAC @ 334mA	30VAC @ 167mA	TE2236-ND	15.98	14.38	12.78	11.51	L01-6323
	18VAC @ 278mA	36VAC @ 139mA	TE2237-ND†	15.98	14.38	12.78	11.51	L01-6324
7	7VAC @ 1A	14VAC @ 500mA	TE2238-ND	17.15	15.44	13.72	12.35	L01-6330
	9VAC @ 778mA	18VAC @ 389mA	TE2239-ND	17.15	15.44	13.72	12.35	L01-6331
	12VAC @ 584mA	24VAC @ 292mA	TE2240-ND	17.15	15.44	13.72	12.35	L01-6332
	15VAC @ 466mA	30VAC @ 233mA	TE2241-ND	17.15	15.44	13.72	12.35	L01-6333
	18VAC @ 388mA	36VAC @ 194mA	TE2242-ND	17.15	15.44	13.72	12.35	L01-6334
	22VAC @ 318mA	44VAC @ 159mA	TE2243-ND†	17.15	15.44	13.72	12.35	L01-6335
10	7VAC @ 1.43A	14VAC @ 714mA	TE2244-ND	19.63	17.67	15.70	14.13	L01-6340
	9VAC @ 1.11A	18VAC @ 556mA	TE2245-ND	19.63	17.67	15.70	14.13	L01-6341
	12VAC @ 834mA	24VAC @ 417mA	TE2246-ND	19.63	17.67	15.70	14.13	L01-6342
	15VAC @ 666mA	30VAC @ 333mA	TE2247-ND	19.63	17.67	15.70	14.13	L01-6343
	18VAC @ 556mA	36VAC @ 278mA	TE2248-ND	19.63	17.67	15.70	14.13	L01-6344
	22VAC @ 454mA	44VAC @ 227mA	TE2249-ND†	19.63	17.67	15.70	14.13	L01-6345
15	7VAC @ 2.14A	14VAC @ 1.07A	TE2250-ND	21.43	19.29	17.14	15.43	L01-6350
	9VAC @ 1.66A	18VAC @ 833mA	TE2251-ND	21.43	19.29	17.14	15.43	L01-6351
	12VAC @ 1.25A	24VAC @ 625mA	TE2252-ND	21.43	19.29	17.14	15.43	L01-6352
	15VAC @ 1A	30VAC @ 500mA	TE2253-ND	21.43	19.29	17.14	15.43	L01-6353
	18VAC @ 834mA	36VAC @ 417mA	TE2254-ND	21.43	19.29	17.14	15.43	L01-6354
	22VAC @ 682mA	44VAC @ 341mA	TE2255-ND†	21.43	19.29	17.14	15.43	L01-6355
25	7VAC @ 3.57A	14VAC @ 1.79A	TE2256-ND	26.78	24.10	21.42	19.28	L01-6360
	9VAC @ 2.75A	18VAC @ 1.38A	TE2257-ND	26.78	24.10	21.42	19.28	L01-6361
	12VAC @ 2.08A	24VAC @ 1.04A	TE2258-ND	26.78	24.10	21.42	19.28	L01-6362
	15VAC @ 1.66A	30VAC @ 832mA	TE2259-ND	26.78	24.10	21.42	19.28	L01-6363
	18VAC @ 1.39A	36VAC @ 694mA	TE2260-ND	26.78	24.10	21.42	19.28	L01-6364
	22VAC @ 1.1A	44VAC @ 568mA	TE2261-ND†	26.78	24.10	21.42	19.28	L01-6365
35	7VAC @ 5A	14VAC @ 2.5A	TE2262-ND	32.38	29.14	25.90	23.31	L01-6370
	9VAC @ 3.9A	18VAC @ 1.9A	TE2263-ND	32.38	29.14	25.90	23.31	L01-6371
	12VAC @ 2.9A	24VAC @ 1.5A	TE2264-ND	32.38	29.14	25.90	23.31	L01-6372
	15VAC @ 2.4A	30VAC @ 1.2A	TE2265-ND	32.38	29.14	25.90	23.31	L01-6373
	18VAC @ 1.9A	36VAC @ 972mA	TE2266-ND	32.38	29.14	25.90	23.31	L01-6374
50	7VAC @ 7.1A	14VAC @ 3.6A	TE2267-ND	39.20	35.28	31.36	28.23	L01-6380
	9VAC @ 5.56A	18VAC @ 2.78A	TE2268-ND	39.20	35.28	31.36	28.23	L01-6381
	12VAC @ 4.17A	24VAC @ 2.08A	TE2269-ND	39.20	35.28	31.36	28.23	L01-6382
	15VAC @ 3.33A	30VAC @ 1.67A	TE2270-ND	39.20	35.28	31.36	28.23	L01-6383
	18VAC @ 2.78A	36VAC @ 1.39A	TE2271-ND	39.20	35.28	31.36	28.23	L01-6384
	22VAC @ 2.28A	44VAC @ 1.14A	TE2272-ND†	39.20	35.28	31.36	28.23	L01-6385

† Not applicable for VDE

Murata Power Solutions

Current Sensing Transformers

The 5300, 5400 and 5500 Series of current sense transformers are designed to monitor AC currents. The transformers can be used for high frequency current sensing in applications such as switched-mode power supplies, motor control and electronic lighting ballasts.

Fig. 1

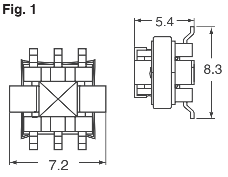

Fig. 2

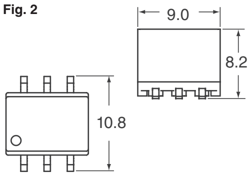

Fig. 3

Dimensions in mm

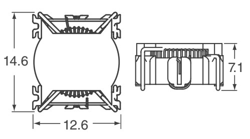

Current Rating (A)	Turns Ratio	Secondary Inductance (mH)	Maximum DC Resistance (mΩ)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Power Solutions Part No.
			Primary	Secondary		1	5	10		Qty.	Pricing	
Fig. 1 — 5300 Series												
10	1:20	0.08	7.0	550	811-1187-1-ND	1.60	1.51	1.40	811-1187-2-ND	1,000	754.00	53020C
10	1:30	0.18	7.0	850	811-1188-1-ND	1.60	1.51	1.40	811-1188-2-ND	1,000	754.00	53030C
10	1:40	0.32	7.0	1100	811-1189-1-ND	1.60	1.51	1.40	811-1189-2-ND	1,000	754.00	53040C
10	1:50	0.50	7.0	1750	811-1190-1-ND	1.60	1.51	1.40	811-1190-2-ND	1,000	754.00	53050C
10	1:60	0.72	7.0	2200	811-1191-1-ND	1.60	1.51	1.40	811-1191-2-ND	1,000	754.00	53060C
10	1:70	0.98	7.0	4500	811-1192-1-ND	1.60	1.51	1.40	811-1192-2-ND	1,000	754.00	53070C
10	1:100	2.00	7.0	5600	811-1193-1-ND	1.60	1.51	1.40	811-1193-2-ND	1,000	754.00	53100C
10	1:125	3.00	7.0	7500	811-1194-1-ND	1.60	1.51	1.40	811-1194-2-ND	1,000	754.00	53125C
10	1:150	4.50	7.0	17500	811-1195-1-ND	1.60	1.51	1.40	811-1195-2-ND	1,000	754.00	53150C
10	1:200	8.00	7.0	34000	811-1196-1-ND	1.60	1.51	1.40	—	—	—	53200C
Fig. 2 — 5400 Series												
15	1:1:50	3.80	7.0	500	811-1197-1-ND	2.17	2.06	1.90	811-1197-2-ND	450	533.25	54050C
15	1:1:100	14.80	7.0	3200	811-1198-1-ND	2.59	2.45	2.26	811-1198-2-ND	450	634.50	54100C
15	1:1:200	60.0	7.0	6600	811-1199-1-ND	3.11	2.94	2.72	811-1199-2-ND	450	762.75	54200C
Fig. 3 — 5500 Series												
15	1:1:50	3.8	2.3	350	811-1200-5-ND‡	1.50	1.46	1.43	—	—	—	55050C
15	1:1:100	14.8	2.3	850	811-1201-5-ND‡	1.77	1.72	1.69	—	—	—	55100C
15	1:1:200	60.0	2.3	3600	811-1202-5-ND‡	2.14	2.08	2.05	—	—	—	55200C

‡ Bulk

Converter Transformers

The 7625xENC Series is specifically designed for use with Maxim's MAX250 and MAX253 chipsets to provide isolated RS232 interfaces. A carefully controlled turns ratio ensures consistent performance while a toroidal construction minimizes EMI.

The 78253 Series is specifically designed for use with the MAX253 chip set to provide isolated power supplies. The 5V version can supply 1W, and the 3.3V version can supply 500mW. A center tapped secondary winding allows for full bridge, half bridge or voltage doubling.

The 782485 and 782482 Series is specifically designed for use with Analog Devices chipsets to provide isolated RS-485 and RS-422 interfaces. Carefully controlled turns ratios ensure consistent performance while a toroidal construction minimizes EMI.

The 78250 Series is specifically designed for use with Maxim's MAX250 chipsets to provide isolated RS232 interfaces. Carefully controlled turns ratios ensure consistent performance while a toroidal construction minimizes EMI.

Fig. 1

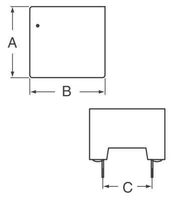

Fig. 2

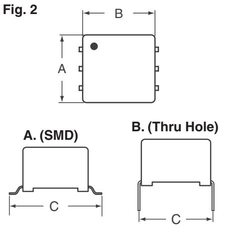

Fig. 3

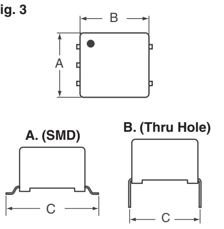

Fig.	Turns Ratio	Nominal Input Voltage (V)	Nominal Output Voltage (V)	Maximum Output Current (mA)	Dimensions – mm			Digi-Key Part No.	Price Each			Murata Power Solutions Part No.
					A	B	C		1	5	10	
7625xENC Series												
1	1CT:1	—	—	–	15.0	15.0	10.16	811-1285-5-ND	4.49	4.36	4.29	76250ENC
	1:√5	3.3	5.0	100	15.0	15.0	10.16	811-1284-5-ND	4.49	4.36	4.29	76253/35ENC
	1:1.33	5.0	5.0	200	15.0	15.0	10.16	811-1283-5-ND	4.49	4.36	4.29	76253/55ENC
78253 Series												
2A	1:2.27	3.3	5.0	100	9.0	9.52	12.7	811-1273-5-ND	2.67	2.59	2.56	78253/35MC
	1:1.31	5.0	5.0	200	9.0	9.52	12.7	811-1270-5-ND	2.67	2.59	2.56	78253/55MC
	1:1.33	5.0	5.0	200	9.0	9.52	12.7	811-1269-5-ND	3.45	3.35	3.30	78253/55MVC
2B	1:1.31	5.0	5.0	200	9.0	9.52	10.16	811-1271-5-ND	2.67	2.59	2.56	78253/55C
	1:2.14	3.3	5.0	100	9.0	9.52	10.16	811-1272-5-ND	3.45	3.35	3.30	78253/35VC
	1:1.33	5.0	5.0	200	9.0	9.52	10.16	811-1268-5-ND	3.45	3.35	3.30	78253/55VC
782485 Series												
2B	1CT:2.2CT	3.3	6.0	200	9.14	9.77	10.16	811-1203-5-ND	1.36	1.32	1.30	782485/35C
	1CT:1.5CT	5.0	6.0	200	9.14	9.77	10.16	811-1204-5-ND	1.36	1.32	1.30	782485/55C
NEW! 782482 Series NEW!												
2B	1CT:1.33CT	3.3	3.3	—	9.14	9.77	10.16	811-2153-5-ND	1.36	1.32	1.30	782482/33VC
	1.14CT:1CT	5.0	3.3	—	9.14	9.77	10.16	811-2154-5-ND	1.36	1.32	1.30	782482/53VC

Fig.	Turns Ratio	Primary Inductance (mH)	Volt-Time Product (Vμs)	Max. Output Current (mA)	Dimensions – mm			Digi-Key Part No.	Price Each			Murata Power Solutions Part No.
					A	B	C		1	5	10	
78250 Series												
3A	1:1CT	2.0	50	300	9.0	9.52	12.7	811-1276-5-ND	2.67	2.59	2.56	78250MC
	1:1CT	2.0	50	300	9.0	9.52	12.7	811-1275-5-ND	3.45	3.35	3.30	78250MVC
3B	1CT:1	2.0	50	300	9.0	9.52	10.16	811-1277-5-ND	2.67	2.59	2.56	78250C
	1CT:1	2.0	50	300	9.0	9.52	10.16	811-1274-5-ND	3.45	3.35	3.30	78250VC

Pulse Transformers

The 766 and 786 Series are ranges of general purpose pulse transformers. Common applications include line coupling, impedance matching or isolating. The devices can also be used in small isolated power supplies or as common-mode chokes in filtering applications.

Fig. 1

Dimensions in mm

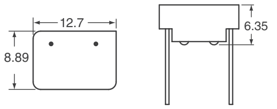

Fig. 2

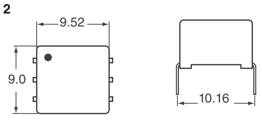

Turns Ratio	Maximum DC Resistance (Ω)	Primary Inductance (μH)	Digi-Key Part No.	Price Each			Murata Power Solutions Part No.
				1	5	10	
Fig. 1 — 766 Series							
1:1	1.5	1916	811-1282-5-ND	2.04	1.98	1.95	76601/1C
1:1	0.8	492	811-1281-5-ND	2.04	1.98	1.95	76601/2C
1:1	0.5	219	811-1280-5-ND	2.04	1.98	1.95	76601/3C
1:1:1	1.5	2060	811-1279-5-ND	2.04	1.98	1.95	76602/1C
1CT:1CT	1	3200	811-1278-5-ND	2.04	1.98	1.95	76615/1C
Fig. 2 — 786 Series							
1:1:1	0.34	500	811-1267-5-ND	1.56	1.52	1.50	78602/2C
1:1:1	1.34	10mH	811-1266-5-ND	1.56	1.52	1.50	78602/9C
2:1	0.18	100	811-1264-5-ND	1.56	1.52	1.50	78604/4C
2:1	0.25	200	811-1265-5-ND	1.56	1.52	1.50	78604/3C
2:1	1.23	10mH	811-1263-5-ND	1.56	1.52	1.50	78604/9C
1CT:1CT	0.87	4000	811-1262-5-ND	1.56	1.52	1.50	78615/16C
1CT:1CT	1.33	10mH	811-1261-5-ND	1.56	1.52	1.50	78615/9C

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TRIAD
MAGNETICS

Control Transformer — UL1585, Class 2, Energy Limited

Input Voltage 50/60Hz (VAC)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
Fig. 1 — 0.250" Quick Connect							
120	237-1239-ND	15.44	13.12	11.58	10.81	9.26	TCT40-01E07AB
120 / 208 / 240	237-1243-ND	15.44	13.12	11.58	10.81	9.26	TCT40-05E07AB
120 / 240	237-1245-ND	15.44	13.12	11.58	10.81	9.26	TCT40-06E07AB
Fig. 2 — 12" (18AWG) Wire Lead							
120	237-1240-ND	16.06	13.65	12.04	11.24	9.63	TCT40-01E07K
240	237-1242-ND	16.06	13.65	12.04	11.24	9.63	TCT40-02E07K
120 / 240	237-1246-ND	16.06	13.65	12.04	11.24	9.63	TCT40-06E07K

Fig. 1

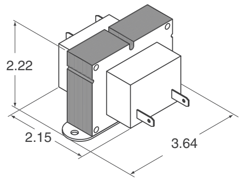

Fig. 2

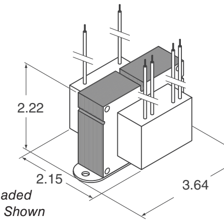

Wire Leaded Version Shown

Description: These control transformers come with a tamper resistant shroud for safety and a steel bracket welded to the bottom of the transformer for ease of mounting. Universal interchangeability with other manufactures. Applications are Industrial Controls and Automation, Consumer Equipment, HVAC Equipment. Since these products are energy limited, no secondary fusing is required.
Electrical Specifications: • Maximum Power: 40VA • Weight boxed unit: 1.5 pounds • Output Voltage: 24VAC @1.67A
Agency Approvals: UL File: E65390 CSA File: 226495, UL Class B insulation system 130°C

World Series™ Power Transformers — Chassis Mount: Quick-Connect

Triad chassis mount World Series Transformers are designed to meet US and International standards including CSA, IEC, VDC and UL requirements. The transformers consist of a dual bobbin design, insulating shroud and constructed with UL high temperature material.

Specifications:

- Voltage:115/230V, 50/60Hz
- Hi-Pot tested at 4,000 Vrms

Fig. 1

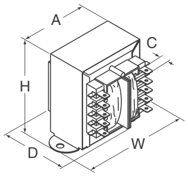

Fig. 2

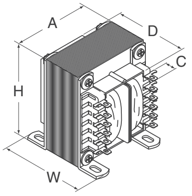

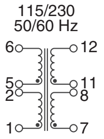

Power Max.	Dimensions – Inches A Width (typ.)	C Contact Overall Length (typ.)	D Depth (typ.)	W Flange Width	H Height (typ.)	Weight (lbs.)
25VA	2.00	0.313	1.938	2.813	2.313	1.25
43VA	2.313	0.313	2.000	3.125	2.688	1.60
80VA	2.50	0.313	2.313	2.78	3.00	2.80
130VA	2.813	0.375	2.813	3.00	3.375	4.10
175VA	3.125	0.375	2.938	3.00	3.75	5.50

Fig.	VA (Size)	Parallel VAC @ A	Series VCT† @ A	Contact Size (Nom.)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
1	25	5 @ 5.0	10 @ 2.5	0.187"	237-1251-ND	15.41	11.24	9.99	9.05	VPS10-2500
2	130	5 @ 26.0	10 @ 13.0	0.250"	237-1249-ND	35.53	25.91	23.03	20.87	VPS10-13000
2	175	5 @ 35.0	10 @ 17.5	0.250"	237-1250-ND	40.79	29.74	26.44	23.96	VPS10-17500
1	25	6.3 @ 4.0	12.6 @ 2.0	0.187"	237-1256-ND◆	15.41	11.24	9.99	9.05	VPS12-2000
1	43	6.3 @ 6.8	12.6 @ 3.4	0.187"	237-1257-ND◆	19.65	14.33	12.74	11.55	VPS12-3400
2	80	6.3 @ 12.6	12.6 @ 6.3	0.187"	237-1258-ND	26.84	19.57	17.40	15.77	VPS12-6300
2	175	6.3 @ 28.0	12.6 @ 14.0	0.250"	237-1255-ND	40.79	29.74	26.44	23.96	VPS12-14000
1	25	8 @ 3.2	16 @ 1.6	0.187"	237-1260-ND◆	15.38	11.22	9.97	9.04	VPS16-1600
1	43	8 @ 5.4	16 @ 2.7	0.187"	237-1261-ND	19.65	14.33	12.74	11.55	VPS16-2700
2	80	8 @ 10.0	16 @ 5.0	0.187"	237-1262-ND	26.84	19.57	17.40	15.77	VPS16-5000
2	130	8 @ 16.2	16 @ 8.1	0.250"	237-1263-ND	35.53	25.91	23.03	20.87	VPS16-8100
1	25	10 @ 2.5	20 @ 1.25	0.187"	237-1264-ND◆	15.41	11.24	9.99	9.05	VPS20-1250
1	43	10 @ 4.4	20 @ 2.2	0.187"	237-1265-ND	19.66	14.33	12.74	11.55	VPS20-2200
2	80	10 @ 8.0	20 @ 4.0	0.187"	237-1266-ND◆	26.84	19.57	17.40	15.77	VPS20-4000
2	175	10 @ 17.6	20 @ 8.8	0.250"	237-1268-ND◆	40.79	29.74	26.44	23.96	VPS20-8800
1	25	12 @ 2.0	24 @ 1.0	0.187"	237-1274-ND◆	15.41	11.24	9.99	9.05	VPS24-1000
1	43	12 @ 3.6	24 @ 1.8	0.187"	237-1275-ND◆	19.65	14.33	12.74	11.55	VPS24-1800
2	80	12 @ 6.6	24 @ 3.3	0.187"	237-1276-ND◆	26.84	19.57	17.40	15.77	VPS24-3300
2	130	12 @ 10.8	24 @ 5.4	0.250"	237-1277-ND◆	35.53	25.91	23.03	20.87	VPS24-5400
2	175	12 @ 14.6	24 @ 7.3	0.250"	237-1278-ND	40.79	29.74	26.44	23.96	VPS24-7300
1	25	14 @ 1.8	28 @ 0.9	0.187"	237-1283-ND	15.41	11.24	9.99	9.05	VPS28-900
1	43	14 @ 3.0	28 @ 1.5	0.187"	237-1279-ND	19.65	14.33	12.74	11.55	VPS28-1500
2	80	14 @ 5.6	28 @ 2.8	0.187"	237-1280-ND	26.84	19.57	17.40	15.77	VPS28-2800
2	130	14 @ 9.2	28 @ 4.6	0.250"	237-1281-ND◆	35.53	25.91	23.03	20.87	VPS28-4600
2	175	14 @ 12.5	28 @ 6.25	0.250"	237-1282-ND◆	40.79	29.74	26.44	23.96	VPS28-6250
1	25	18 @ 1.4	36 @ 0.7	0.187"	237-1288-ND◆	15.41	11.24	9.99	9.05	VPS36-700
1	43	18 @ 2.4	36 @ 1.2	0.187"	237-1284-ND◆	19.65	14.33	12.74	11.55	VPS36-1200
2	80	18 @ 4.4	36 @ 2.2	0.187"	237-1285-ND◆	26.84	19.57	17.40	15.77	VPS36-2200
2	130	18 @ 7.2	36 @ 3.6	0.250"	237-1286-ND◆	35.53	25.91	23.03	20.87	VPS36-3600
2	175	18 @ 9.6	36 @ 4.8	0.250"	237-1287-ND	40.79	29.74	26.44	23.96	VPS36-4800
1	25	115 @ 0.22	230 @ 0.11	0.187"	237-1269-ND◆	15.41	11.24	9.99	9.05	VPS230-110
1	43	115 @ 0.38	230 @ 0.19	0.187"	237-1270-ND◆	19.65	14.33	12.74	11.55	VPS230-190
2	80	115 @ 0.7	230 @ 0.35	0.187"	237-1271-ND◆	26.84	19.57	17.40	15.77	VPS230-350
2	130	115 @ 1.14	230 @ 0.57	0.250"	237-1272-ND◆	35.53	25.91	23.03	20.87	VPS230-570
2	175	115 @ 1.52	230 @ 0.76	0.250"	237-1273-ND◆	40.79	29.74	26.44	23.96	VPS230-760

◆ ***RoHS Compliant*** † CT = Center Tap

World Series™ Power Transformers — PC Mount

- World Series dual bobbin construction transformers meet U.S. and international standards including CSA, IEC, VDE and UL requirements.
- Hi-Pot Test: 4,000 VRMS
- Primary: 115/230V, 50/60 Hz

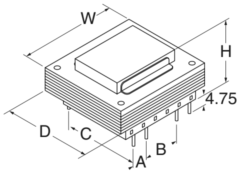

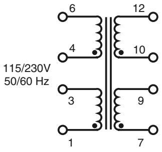

VA Size	Dimensions – Inch (mm) H	W	D	A	B	C	Pin Dim.	Wt. Kg
2.5	1.125 (28.58)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	.025 (.64)	.25 (.11)
5.0	1.375 (34.93)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	.025 (.64)	.37 (.17)
10.0	1.375 (34.93)	1.875 (47.63)	1.5625 (39.69)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	.036 (.914)	.53 (.24)
20.0	1.625 (41.28)	2.25 (57.15)	1.875 (47.63)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.036 (.914)	.90 (.41)
30.0	1.5625 (39.69)	2.625 (66.68)	2.1875 (55.56)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.045 (1.14)	1.15 (.52)
56.0	1.8125 (46.04)	3.000 (76.20)	2.500 (63.50)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.045 (1.14)	1.70 (.77)

VA (Size)	Parallel VAC @ A	Series VCT† @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1060-ND◆	9.62	8.56	7.44	VPP10-250
5.0	5 @ 1.0	10 @ 0.5	237-1081-ND◆	10.36	9.25	8.04	VPP10-500
10.0	5 @ 2.0	10 @ 1.0	237-1053-ND◆	11.60	10.19	8.86	VPP10-1000
20.0	5 @ 4.0	10 @ 2.0	237-1067-ND◆	14.11	12.29	10.68	VPP10-2000
30.0	5 @ 6.0	10 @ 3.0	237-1074-ND◆	16.22	14.56	12.66	VPP10-3000
56.0	5 @ 11.2	10 @ 5.6	237-1088-ND◆	19.84	15.27	13.57	VPP10-5600
2.5	6.3 @ 0.4	12.6 @ 0.2	237-1061-ND◆	9.62	8.56	7.44	VPP12-200
5.0	6.3 @ 0.8	12.6 @ 0.4	237-1082-ND◆	10.36	9.25	8.04	VPP12-400
10.0	6.3 @ 1.6	12.6 @ 0.8	237-1054-ND◆	11.60	10.19	8.86	VPP12-800
20.0	6.3 @ 3.2	12.6 @ 1.6	237-1068-ND◆	14.11	12.29	10.68	VPP12-1600
30.0	6.3 @ 4.8	12.6 @ 2.4	237-1075-ND◆	16.22	14.56	12.66	VPP12-2400
56.0	6.3 @ 8.8	12.6 @ 4.4	237-1089-ND◆	19.84	15.27	13.57	VPP12-4400
2.5	8 @ 0.3	16 @ 0.15	237-1062-ND◆	9.62	8.56	7.44	VPP16-150
5.0	8 @ 0.62	16 @ 0.31	237-1083-ND	10.36	9.25	8.04	VPP16-310
10.0	8 @ 1.25	16 @ 0.62	237-1055-ND◆	11.60	10.19	8.86	VPP16-620
20.0	8 @ 2.5	16 @ 1.25	237-1069-ND◆	14.11	12.29	10.68	VPP16-1250
30.0	8 @ 3.8	16 @ 1.9	237-1076-ND◆	16.22	14.56	12.66	VPP16-1900
56.0	8 @ 7.0	16 @ 3.5	237-1090-ND◆	19.84	15.27	13.57	VPP16-3500
2.5	10 @ 0.24	20 @ 0.12	237-1063-ND◆	9.62	8.56	7.44	VPP20-120
5.0	10 @ 0.5	20 @ 0.25	237-1084-ND◆	10.36	9.25	8.04	VPP20-250
10.0	10 @ 1.0	20 @ 0.5	237-1056-ND◆	11.60	10.19	8.86	VPP20-500
20.0	10 @ 2.0	20 @ 1.0	237-1070-ND◆	14.11	12.29	10.68	VPP20-1000
30.0	10 @ 3.0	20 @ 1.5	237-1077-ND◆	16.22	14.56	12.66	VPP20-1500
56.0	10 @ 5.6	20 @ 2.8	237-1091-ND◆	19.84	15.27	13.57	VPP20-2800
2.5	12 @ 0.2	24 @ 0.1	237-1064-ND◆	9.62	8.56	7.44	VPP24-100
5.0	12 @ 0.42	24 @ 0.21	237-1085-ND◆	10.36	9.25	8.04	VPP24-210
10.0	12 @ 0.84	24 @ 0.42	237-1057-ND◆	11.60	10.19	8.86	VPP24-420
20.0	12 @ 1.66	24 @ 0.83	237-1071-ND◆	14.11	12.29	10.68	VPP24-830
30.0	12 @ 2.50	24 @ 1.25	237-1078-ND◆	16.22	14.56	12.66	VPP24-1250
56.0	12 @ 4.66	24 @ 2.33	237-1092-ND◆	19.84	15.27	13.57	VPP24-2330
2.5	14 @ 0.18	28 @ 0.09	237-1065-ND◆	9.62	8.56	7.44	VPP28-090
5.0	14 @ 0.36	28 @ 0.18	237-1086-ND◆	10.36	9.25	8.04	VPP28-180
10.0	14 @ 0.72	28 @ 0.36	237-1058-ND◆	11.60	10.19	8.86	VPP28-360
20.0	14 @ 1.44	28 @ 0.72	237-1072-ND◆	14.11	12.29	10.68	VPP28-720
30.0	14 @ 2.12	28 @ 1.06	237-1079-ND◆	16.22	14.56	12.66	VPP28-1060
56.0	14 @ 4.0	28 @ 2.0	237-1094-ND◆	19.84	15.27	13.57	VPP28-2000
2.5	18 @ 0.14	36 @ 0.07	237-1066-ND◆	9.62	8.56	7.44	VPP36-070
5.0	18 @ 0.28	36 @ 0.14	237-1087-ND◆	10.36	9.25	8.04	VPP36-140
10.0	18 @ 0.56	36 @ 0.28	237-1059-ND◆	11.60	10.19	8.86	VPP36-280
20.0	18 @ 1.12	36 @ 0.56	237-1073-ND◆	14.11	12.29	10.68	VPP36-560
30.0	18 @ 1.64	36 @ 0.82	237-1080-ND◆	16.22	14.56	12.66	VPP36-820
56.0	18 @ 3.12	36 @ 1.56	237-1095-ND◆	19.84	15.27	13.57	VPP36-1560

◆ ***RoHS Compliant*** † CT = Center Tap

TRIAD MAGNETICS

Power Transformers

PC Mount - Pack Power

- Designed to meet the needs of low clearance PC board and solid state power designs.
- Hi-Pot Test: 2,000VRMS
- Primary: 115/230V, 50/60 Hz
- Class B UL Recognized, UL File E53148

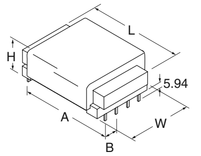

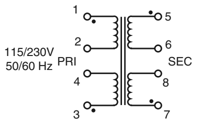

VA Size	Dimensions – Inch (mm)					Weight Oz. (Gram)
	H	W	L	A	B	
2.5	0.650 (16.51)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	5 (141.75)
6.0	0.875 (22.23)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	7 (198.44)
12.0	1.062 (26.97)	2.000 (50.80)	2.500 (63.50)	2.000 (50.80)	0.500 (12.70)	11 (311.84)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each					Triad Part No.
				1	10	25	50	100	
2.5	5 @ 0.5	10 @ 0.25	237-1008-ND	10.76	9.37	8.14	7.13	6.23	FP10-250
	6.3@ 0.4	12.6 @ 0.2	237-1009-ND	10.76	9.37	8.14	7.13	6.23	FP12-200
	8 @ 0.3	16 @ 0.15	237-1010-ND	10.76	9.37	8.14	7.13	6.23	FP16-150
	12 @ 0.2	24 @ 0.1	237-1012-ND	10.76	9.37	8.14	7.13	6.23	FP24-100
	17 @ 0.15	34 @ 0.075	237-1014-ND	10.76	9.37	8.14	7.13	6.23	FP34-75
6.0	5 @ 1.2	10 @ 0.6	237-1016-ND	12.00	10.61	9.29	8.18	7.21	FP10-600
	6.3@ 0.95	12.6 @ 0.475	237-1017-ND	12.00	10.61	9.29	8.18	7.21	FP12-475
	8 @ 0.75	16 @ 0.375	237-1018-ND	12.00	10.61	9.29	8.18	7.21	FP16-375
	10 @ 0.6	20 @ 0.3	237-1019-ND	12.00	10.61	9.29	8.18	7.21	FP20-300
	12 @ 0.5	24 @ 0.25	237-1020-ND	12.00	10.61	9.29	8.18	7.21	FP24-250
	15 @ 0.4	30@ 0.2	237-1021-ND	12.00	10.61	9.29	8.18	7.21	FP30-200
	17 @ 0.34	34 @ 0.17	237-1022-ND	12.00	10.61	9.29	8.18	7.21	FP34-170
	28 @ 0.2	56 @ 0.1	237-1023-ND	12.00	10.61	9.29	8.18	7.21	FP56-100
12.0	6.3@ 1.9	12.6 @ 0.95	237-1001-ND	14.00	11.28	10.16	8.75	7.51	FP12-950
	8 @ 1.5	16 @ 0.75	237-1002-ND	14.00	11.28	10.16	8.75	7.51	FP16-750
	10 @ 1.2	20 @ 0.6	237-1003-ND	14.00	11.28	10.16	8.75	7.51	FP20-600
	12 @ 1.0	24 @ 0.5	237-1004-ND	14.00	11.28	10.16	8.75	7.51	FP24-500
	15 @ 0.8	30@ 0.4	237-1005-ND	14.00	11.28	10.16	8.75	7.51	FP30-400
	17 @ 0.68	34 @ 0.34	237-1006-ND	14.00	11.28	10.16	8.75	7.51	FP34-340
	28 @ 0.4	56 @ 0.2	237-1007-ND	14.00	11.28	10.16	8.75	7.51	FP56-200

* CT = Center Tap

PC Mount - Split Pack™

- Split Pack split bobbin transformer for PC board applications
- Hi-Pot Test: 2,500VRMS
- Primary: 115/230V, 50/60 Hz
- Class B UL Recognized, UL File E53148

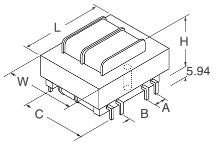

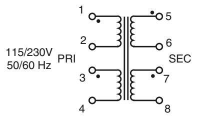

8 PIN

VA Size	Dimensions – Inch (mm)						Weight Lbs. (Kg)
	H	W	L	A	B	C	
1.1	.9375 (23.81)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.17 (.08)
2.5	1.1875 (30.16)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.25 (.11)
6.0	1.3125 (33.34)	1.3125 (33.34)	1.625 (41.28)	.250 (6.35)	.350 (8.80)	1.280 (32.51)	.44 (.20)
12.0	1.4375 (36.51)	1.5625 (39.69)	1.875 (47.63)	.300 (7.62)	.400 (10.16)	1.410 (35.81)	.70 (.32)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each					Triad Part No.
				1	10	25	50	100	
1.1	6.3 @ 0.18	12.6 @ 0.09	237-1024-ND◆	8.71	7.10	6.39	5.51	4.73	FS12-090
	8 @ 0.14	16 @ 0.07	237-1025-ND◆	8.71	7.10	6.39	5.51	4.73	FS16-070
	10 @ 0.11	20 @ 0.055	237-1026-ND◆	8.71	7.10	6.39	5.51	4.73	FS20-055
	12 @ 0.09	24 @ 0.045	237-1028-ND◆	8.71	7.10	6.39	5.51	4.73	FS24-045
	14 @ 0.08	28 @ 0.04	237-1029-ND	8.71	7.10	6.39	5.51	4.73	FS28-040
	18 @ 0.06	36 @ 0.03	237-1030-ND	8.71	7.10	6.39	5.51	4.73	FS36-030
2.5	5 @ 0.5	10 @ 0.25	237-1031-ND◆	9.00	7.26	6.54	5.63	4.83	FS10-250
	6.3@ 0.4	12.6 @ 0.2	237-1032-ND◆	9.00	7.26	6.54	5.63	4.83	FS12-200
	8 @ 0.3	16 @ 0.15	237-1033-ND	9.00	7.26	6.54	5.63	4.83	FS16-150
	10 @ 0.24	20 @ 0.12	237-1034-ND	9.00	7.26	6.54	5.63	4.83	FS20-120
	12 @ 0.2	24 @ 0.1	237-1035-ND	9.00	7.26	6.54	5.63	4.83	FS24-100
	14 @ 0.17	28@ 0.085	237-1036-ND	9.00	7.26	6.54	5.63	4.83	FS28-85
	18 @ 0.13	36 @ 0.065	237-1037-ND	9.00	7.26	6.54	5.63	4.83	FS36-65
6.0	5 @ 1.2	10 @ 0.6	237-1038-ND◆	9.60	7.84	7.06	6.08	5.22	FS10-600
	6.3@ 1.0	12.6 @ 0.5	237-1039-ND◆	9.60	7.84	7.06	6.08	5.22	FS12-500
	8 @ 0.8	16 @ 0.4	237-1040-ND◆	9.60	7.84	7.06	6.08	5.22	FS16-400
	10 @ 0.6	20 @ 0.3	237-1041-ND◆	9.60	7.84	7.06	6.08	5.22	FS20-300
	12 @ 0.5	24 @ 0.25	237-1042-ND◆	9.60	7.84	7.06	6.08	5.22	FS24-250
	14 @ 0.4	28 @ 0.2	237-1043-ND◆	9.60	7.84	7.06	6.08	5.22	FS28-200
	18 @ 0.34	36 @ 0.17	237-1044-ND	9.60	7.84	7.06	6.08	5.22	FS36-170
12.0	5 @ 2.4	10 @ 1.2	237-1045-ND◆	11.00	8.94	8.05	6.93	5.95	FS10-1200
	6.3 @ 2.0	12.6 @ 1.0	237-1046-ND◆	11.00	8.94	8.05	6.93	5.95	FS12-1000
	8.0 @ 1.6	16 @ 0.8	237-1047-ND◆	11.00	8.94	8.05	6.93	5.95	FS16-800
	10 @ 1.2	20 @ 0.6	237-1048-ND◆	11.00	8.94	8.05	6.93	5.95	FS20-600
	12 @ 1.0	24 @ 0.5	237-1050-ND◆	11.00	8.94	8.05	6.93	5.95	FS24-500
	14 @ 0.84	28 @ 0.42	237-1051-ND◆	11.00	8.94	8.05	6.93	5.95	FS28-420
	18 @ 0.7	36 @ 0.35	237-1052-ND◆	11.00	8.94	8.05	6.93	5.95	FS36-350

◆ ***RoHS Compliant*** * CT = Center Tap

Audio Transformers

Data/Voice Coupling

SPECIFICATIONS: Designed to meet FCC Part 68. **Longitudinal Balance:** (FCC68.310): 60dB minimum 200 ~ 1000 Hz, 45 dB mn. 1000 ~ 4000 Hz. **Dielectric Strength:** (FCC 68.304): 1500V. **Frequency Range:** Data/Voice = 300 ~ 3500 Hz, Data = 800 ~ 3500 Hz

Schematic A

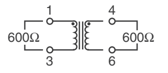

TY-305P	PRI 2, 3; SEC 6, 7
TY-307P, TY-310P TY-311P, TY-400P TY-301P, TY-303P TY-402P	PRI 1, 3; SEC 4, 6

Schematic B

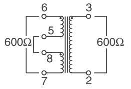

Schematic C

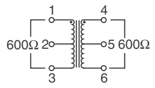

Schematic D

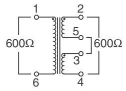

Schematic E

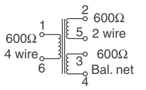

Fig. 1

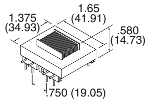

Fig. 2

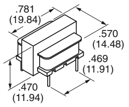

Fig. 3

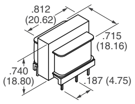

Fig. 4

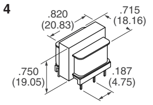

Fig. 5

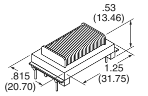

Fig. 6

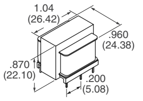

Fig.	Sche-matic	Impedance		IDC Max. (mA)	Insertion Loss (dB)	Digi-Key Part No.	Price Each				Triad Part No.
		Pri.	Sec.				1	10	25	50	
Data/Voice Coupling Transformers											
1	A	600	600	100	1.5	237-1128-ND	10.94	8.86	7.88	7.14	TY-305P
	B	600 Split	600	75	1.5	237-1129-ND	19.57	15.84	14.08	12.76	TY-306P
2	A	600	600	0	1.0	237-1130-ND	6.41	5.19	4.61	4.18	TY-307P
3	A	600	600	0	1.0	237-1132-ND‡	5.56	4.50	4.00	3.63	TY-311P
	C	600 CT*	600 CT*	0	1.0	237-1127-ND	5.56	4.50	4.00	3.63	TY-304P
	A	4000	600	0	1.0	237-1126-ND	5.56	4.50	4.00	3.63	TY-303P
4	A	600	600	90	1.75	237-1133-ND‡	8.34	6.75	6.00	5.44	TY-400P
5	A	600	600	90	1.75	237-1135-ND‡	6.89	5.58	4.96	4.50	TY-402P
	D	600	600 Split	90	1.75	237-1136-ND	6.89	5.58	4.96	4.50	TY-403P
Data/Voice Dual Transformer Hybrids											
3	E	600 (4W)	600/600	0	.80	237-1123-ND†	5.56	4.50	4.00	3.63	TY-300P
6	E	600 (4W)	600/600	0	.65	237-1125-ND†	8.33	6.75	6.00	5.44	TY-302P

* CT = Center Tap ‡ Four-pin configuration

† Two required for conventional hybrid operation, the insertion loss does not include 3dB in hybrid balance network.

PC Mount

DESCRIPTION: Audio transformers are used in line matching, telephone coupling, pulse trigger and driver applications. **SPECIFICATIONS:** Frequency Response Ranges: 200 ~ 15,000 Hz

Fig. 1

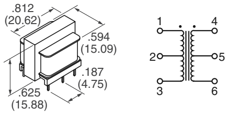

Fig. 2

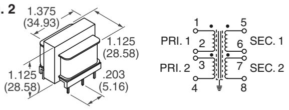

Fig.	Matching Impedance		DC Unbal. in Pri. Max. (mA)	Digi-Key Part No.	Price Each					Triad Part No.
	Pri.	Sec.			1	10	25	50	100	
1	10,000 CT*	10,000 CT*	4 mA	237-1118-ND	3.89	3.15	2.80	2.54	2.16	TY-141P
	10,000 CT*	2,000 CT*	4 mA	237-1119-ND	3.89	3.15	2.80	2.54	2.16	TY-142P
	15,000 CT*	15,000 CT*	4 mA	237-1120-ND	3.89	3.15	2.80	2.54	2.16	TY-144P
	600 CT*	600 CT*	15 mA	237-1121-ND	3.89	3.15	2.80	2.54	2.16	TY-145P
2	600 CT/150§	600 CT/150§	—	237-1122-ND	7.22	5.85	5.20	4.72	4.00	TY-146P

* CT = Center Tap § Split Winding

MIL-T-27E

DESCRIPTION:

The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E. **SPECIFICATIONS:** Frequency Response Ranges: 300 Hz ~ 150 kHz

TECHNICAL NOTES: • HI-Pot Test: 1,000 VRMS

• Working Voltage: 150VDC

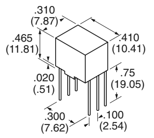

Pin-Out #	Pinout Primary	Secondary
1	1, 2	3, 4
2	1, 2CT, 3	4, 5
3	1, 2CT, 3	4, 5CT, 6
4	1, 2	3, 4, §, 5, 6

Power Level in mW	Matching Impedance		DC Unbal. in Pri. Max. (mA)	Pin-Out #	Digi-Key Part No.	Price Each				Triad Part No.
	Pri.	Sec.				1	10	25	50	
10	200,000 CT*	1,000 CT*	0.0	3	237-1137-ND	21.29	17.25	15.33	13.90	SP-4
50	10,000 CT*	2,000 CT*	1.0	3	237-1141-ND	21.21	17.19	15.28	13.85	SP-21
	1,000	50	3.0	1	237-1144-ND	17.25	13.97	12.42	11.26	SP-33
	150 CT*	12	10.0	2	237-1145-ND	15.51	12.57	11.17	10.13	SP-42
	7,500 CT*	12	1.0	2	237-1146-ND	18.39	14.89	13.24	12.00	SP-48
	900 CT*	600	4.0	2	237-1149-ND	19.12	15.48	13.76	12.47	SP-51
	10,000 CT*	10,000 CT*	1.0	3	237-1151-ND	16.93	13.72	12.20	11.05	SP-66
	600 CT*	600 CT*	3.0	3	237-1152-ND	18.64	15.11	13.43	12.17	SP-67
	600	600 CT/150§	3.0	4	237-1154-ND	18.56	15.03	13.36	12.11	SP-69
	600	600	3.0	1	237-1155-ND	17.48	14.17	12.60	11.42	SP-70
—	—	Shield Only	—	—	237-1157-ND	3.41	2.76	2.45	2.22	SP-310

* CT = Center Tap § Split Secondary

TRIAD
MAGNETICS

Switchmode Transformers

High Frequency Gate Drive

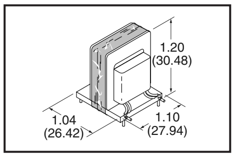

DESCRIPTION:
TRIAD gate drive transformers are used to isolate the control circuitry from the line-connected switches such as with power supplies. The windings are interleaved for the lowest possible practical leakage inductance. Maximum leakage Inductance: 2.5µH. Features operating frequencies up to 200 kHz.

TECHNICAL NOTES:

- Hi-Pot tested: 3,750VRMS
- **Pin-out:** Drive = Pins 1, 2; Gate = Pins 3, 6; Dual Gate = Pins 3, 4 and 5, 6

Maximum DCR Gate (Ω)	Maximum ET Product (VµSec)	Turns Ratio	Minimum Inductance (mH)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
.350	540	1:1	.680	237-1111-ND	15.56	12.60	11.20	10.15	8.61	GDE25-1
.650	540	1:1:1	.680	237-1112-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-2
.350	840	1.5:1	1.50	237-1113-ND	15.56	12.60	11.20	10.15	8.61	GDE25-3
.650	840	1.5:1:1	1.50	237-1114-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-4
.875	540	1:1.5	.680	237-1115-ND	15.56	12.60	11.20	10.15	8.61	GDE25-5
1.75	540	1:1.5:1.5	.680	237-1116-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-6

† Dual Secondary Gate

237-1117-ND (GDE25-KIT) - 6 piece kit (one of each)... **$88.89**

Low Frequency Current Sense Transformer

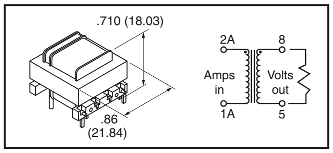

Description:
Designed to monitor current in low frequency applications. Frequencies from 50Hz ~ 400Hz, Current from 0.1 to 30 amperes.

Technical Notes:
• Turns ratio: Primary to sense 1:500 • Suggested burden resistor: 60Ω • Hi-Pot: 2,500 Volts

Primary DCR Maximum (µΩ)	Sense DCR Maximum (Ω)	Typical Output (mV/Amp)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
250	21	110	237-1103-ND	2.89	2.34	2.08	1.89	CSE187L

High Frequency Current Sense Transformer

TRIAD current sense transformers are used to detect the current passing through a conductor.

They are constructed of UL rated 130°C materials.

Frequency Range: 20kHz ~ 200kHz

Fig. 1

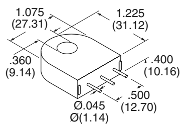

Fig. 2

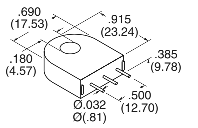

Fig.	Min. Inductance (mH)	ET VµSEC Ref. 20kHz	Pri. (Amps)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1	14.0	2000	110.0 RMS	237-1096-ND◆	6.11	4.95	4.40	3.99	3.39	CST206-1A
	14.0	2000	110.0 RMS	237-1097-ND◆†	6.67	5.40	4.80	4.35	3.69	CST206-1T
	56.0	4000	80.0 RMS	237-1098-ND◆	6.11	4.95	4.40	3.99	3.39	CST206-2A
	130.0	6000	70.0 RMS	237-1100-ND	6.11	4.95	4.40	3.99	3.39	CST206-3A
	130.0	6000	70.0 RMS	237-1101-ND◆†	6.67	5.40	4.80	4.35	3.69	CST206-3T
2	3.5	500	35.0 RMS	237-1104-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-1A
	3.5	500	35.0 RMS	237-1105-ND†	4.67	3.78	3.36	3.05	2.59	CST306-1T
	14.0	1000	25.0 RMS	237-1106-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-2A
	14.0	1000	25.0 RMS	237-1107-ND†	4.67	3.78	3.36	3.05	2.59	CST306-2T
	55.0	2000	25.0 RMS	237-1108-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-3A
	55.0	2000	25.0 RMS	237-1109-ND◆†	4.67	3.78	3.36	3.05	2.59	CST306-3T

◆ ***RoHS Compliant*** † Center Tapped 3-pin version

237-1110-ND (CST306-KIT) - 6 piece kit (one of each in series CST306) — ***RoHS Compliant*** **$22.22**

Switchmode/High Frequency Inductors

Rod Core

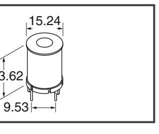

- TRIAD high current rod core inductors provide cost effective energy storage.
- By conditioning the output signal, the inductor smooths out the current waveform to provide a more stable current.
- These low cost inductors are designed to be compatible with automated P.C.B. Installation.

±10% Inductance	DC Rated Current (A)	±15% DC Resistance (Ω)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
Rod Core Inductors									
5.6mH	.250	6.100	.032 (.81)	237-1165-ND	2.71	2.20	1.96	1.77	RC-1
2.5mH	.400	2.450	.032 (.81)	237-1167-ND	2.71	2.20	1.96	1.77	RC-3
1.5mH	.500	1.530	.032 (.81)	237-1168-ND	2.71	2.20	1.96	1.77	RC-4
915.0µH	.625	1.000	.032 (.81)	237-1169-ND	2.71	2.20	1.96	1.77	RC-5
450.0µH	1.000	.420	.032 (.81)	237-1171-ND	2.71	2.20	1.96	1.77	RC-7
250.0µH	1.250	.210	.032 (.81)	237-1172-ND	2.71	2.20	1.96	1.77	RC-8
200.0µH	1.600	.180	.032 (.81)	237-1173-ND	2.71	2.20	1.96	1.77	RC-9
100.0µH	2.000	.098	.032 (.81)	237-1175-ND	2.71	2.20	1.96	1.77	RC-10
75.0µH	2.500	.070	.032 (.81)	237-1176-ND	2.71	2.20	1.96	1.77	RC-11

237-1177-ND (RC-KIT) 11 piece kit - one of each Rod Core Inductor **$27.78**

Common Mode

DESCRIPTION:

- TRIAD common mode EMI suppression inductors are used to eliminate noise common to all lines
- Meeting VDE, IEC, UL and CSA requirements
- Constructed with UL rated 130°C materials
- Hi-Pot Tested: 2,500VRMS

Fig. 1

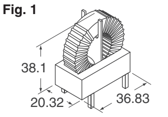

Fig. 2

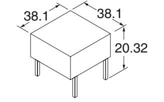

Fig.	Min. Inductance (mH)	Amps R.M.S	Max. DC Resist. (Ω)	Min. Leakage	Pin-Out Winding I	Pin-Out Winding II	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
Encapsulated Toroidal Inductors												
1	2.00	7.50	.020	25.0µH	1, 2	3, 4	237-1230-ND	4.78	3.87	3.44	3.12	CMT908-V1
	4.00	5.20	.040	45.0µH	1, 2	3, 4	237-1231-ND	4.78	3.87	3.44	3.12	CMT908-V2
	8.00	3.20	.120	90.0µH	1, 2	3, 4	237-1232-ND	4.78	3.87	3.44	3.12	CMT908-V3
	16.00	2.60	.160	180.0µH	1, 2	3, 4	237-1233-ND	4.78	3.87	3.44	3.12	CMT908-V4
2	2.00	7.50	.020	25.0µH	1, 2	3, 4	237-1234-ND	4.78	3.87	3.44	3.12	CMT908-H1
	4.00	5.20	.040	45.0µH	1, 2	3, 4	237-1235-ND	4.78	3.87	3.44	3.12	CMT908-H2
	8.00	3.20	.120	90.0µH	1, 2	3, 4	237-1236-ND	4.78	3.87	3.44	3.12	CMT908-H3
	16.00	2.60	.160	180.0µH	1, 2	3, 4	237-1237-ND	4.78	3.87	3.44	3.12	CMT908-H4

237-1238-ND (CMT908-KIT) 8 piece kit - one of each Encapsulated Toroidal Ind. Series CMT908........................... **$33.33**

Toroidal

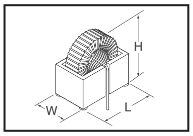

DESCRIPTION:
TRIAD toroidal inductors condition the output signal by leveling out the current waveform providing a more stable current supply.

TECHNICAL NOTES:

- Nominal inductance values are typically 10% higher than minimum rating.
- Biased inductance measured at rated DC amps.

Min. Inductance (µH) No Bias	Min. Inductance (µH) At Bias	Rated DC (Amps)	Max DCR (mΩ)	Dimensions L x W x H Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
18.85	12.72	2.8	44.8	.625 x .350 x .700 (15.88 x 8.89 x 17.78)	237-1178-ND	1.96	1.59	1.41	1.28	FIT44-1
14.75	9.82	3.4	30.7		237-1179-ND	1.96	1.59	1.41	1.28	FIT44-2
12.30	7.75	4.0	23.4		237-1180-ND	1.96	1.59	1.41	1.28	FIT44-3
8.06	5.22	4.8	15.9		237-1181-ND	1.96	1.59	1.41	1.28	FIT44-4
47.40	29.00	2.8	78.9	.700 x .475 x .750 (17.78 x 12.06 x 19.05)	237-1182-ND	2.31	1.88	1.67	1.51	FIT50-1
35.48	23.77	3.4	57.8		237-1183-ND	2.31	1.88	1.67	1.51	FIT50-2
27.16	16.13	4.0	40.1		237-1184-ND	2.31	1.88	1.67	1.51	FIT50-3
21.65	12.27	4.8	29.2		237-1185-ND	2.31	1.88	1.67	1.51	FIT50-4
16.76	9.50	5.7	20.0		237-1186-ND	2.31	1.88	1.67	1.51	FIT50-5
12.50	6.75	6.8	14.0		237-1187-ND	2.31	1.88	1.67	1.51	FIT50-6
8.86	4.80	8.1	11.0		237-1188-ND	2.31	1.88	1.67	1.51	FIT50-7
89.50	57.99	2.8	108.0	.875 x .475 x .950 (22.23 x 12.06 x 24.13)	237-1189-ND	2.80	2.27	2.02	1.83	FIT68-1
71.10	41.59	3.4	86.1		237-1190-ND	2.80	2.27	2.02	1.83	FIT68-2
54.81	33.05	4.0	59.9		237-1191-ND	2.80	2.27	2.02	1.83	FIT68-3
43.30	26.63	4.8	42.4		237-1192-ND	2.80	2.27	2.02	1.83	FIT68-4
33.15	18.79	5.7	28.8		237-1193-ND	2.80	2.27	2.02	1.83	FIT68-5
24.31	13.56	6.8	20.2		237-1194-ND	2.80	2.27	2.02	1.83	FIT68-6
18.64	10.23	8.1	14.8		237-1195-ND	2.80	2.27	2.02	1.83	FIT68-7
128.00	74.04	4.0	95.2	.975 x .625 x 1.100 (24.77 x 15.88 x 27.94)	237-1196-ND	3.47	2.81	2.50	2.27	FIT80-1
107.50	58.05	4.8	67.9		237-1197-ND	3.47	2.81	2.50	2.27	FIT80-2
65.04	31.60	6.8	32.8		237-1199-ND	3.47	2.81	2.50	2.27	FIT80-4
38.07	18.11	9.7	17.0		237-1201-ND	3.47	2.81	2.50	2.27	FIT80-6
253.00	153.00	4.0	139.0	1.300 x .725 x 1.400 (33.02 x 18.42 x 35.56)	237-1202-ND	4.31	3.50	3.11	2.82	FIT106-1
154.00	84.00	5.7	74.0		237-1205-ND	4.31	3.50	3.11	2.82	FIT106-3
116.00	61.90	6.8	48.5		237-1206-ND	4.31	3.50	3.11	2.82	FIT106-4
70.05	35.30	9.7	24.0		237-1208-ND	4.31	3.50	3.11	2.82	FIT106-6

237-1209-ND (FIT-KIT) 30 piece kit - one of each Toroidal Inductor — ***RoHS Compliant*** **$83.33**

NEW! Power Transformers

TRIAD toroidal chassis mount World Series transformers are designed to meet most International Safety Agencies. The toroidal construction inherently helps reduce stray fields, increases efficiency and minimizes size compared to traditional EL transformers. These transformers are constructed with UL approved insulation system rated for 130°C. The primary and secondary are both electrically isolated from each other, and from the core itself. Toroidal chassis mount World Series transformers are available in sizes ranging from 25VA to 1000VA, and are equipped with generous insulated leads for connections.

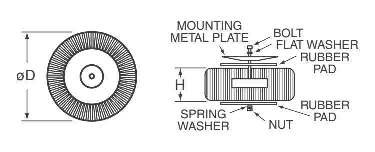

VA	Secondary Series	Secondary Parallel	Dimensions (mm) øD	Dimensions (mm) H	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
25	12V CT @ 2.08A	6.0V @ 4.16A	71	32	237-1322-ND	19.68	16.73	13.78	VPT12-2080
25	18V CT @ 1.39A	9.0V @ 2.78A	71	32	237-1323-ND	19.68	16.73	13.78	VPT18-1390
25	24V CT @ 1.04A	12V @ 2.08A	71	32	237-1325-ND	19.68	16.73	13.78	VPT24-1040
25	30V CT @ 0.83A	15V @ 1.66A	71	32	237-1326-ND	19.68	16.73	13.78	VPT30-830
25	36V CT @ 0.69A	18V @ 1.38A	71	32	237-1327-ND	19.68	16.73	13.78	VPT36-690
25	48V CT @ 0.52A	24V @ 1.04A	71	32	237-1328-ND	19.68	16.73	13.78	VPT48-520
25	230V CT @ 0.11A	115V @ 0.22A	71	32	237-1324-ND	19.68	16.73	13.78	VPT230-110
50	12V CT @ 4.17A	6.0V @ 8.34A	80	33	237-1329-ND	29.91	25.42	20.94	VPT12-4170
50	18V CT @ 2.78A	9.0V @ 5.56A	80	33	237-1330-ND	29.91	25.42	20.94	VPT18-2780
50	24V CT @ 2.08A	12V @ 4.16A	80	33	237-1332-ND	29.91	25.42	20.94	VPT24-2080
50	30V CT @ 1.67A	15V @ 3.34A	80	33	237-1333-ND	29.91	25.42	20.94	VPT30-1670
50	36V CT @ 1.39A	18V @ 2.78A	80	33	237-1334-ND	29.91	25.42	20.94	VPT36-1390
50	48V CT @ 1.04A	24V @ 2.08A	80	33	237-1335-ND	29.91	25.42	20.94	VPT48-1040
50	230V CT @ 0.22A	115V @ 0.44A	80	33	237-1331-ND	29.91	25.42	20.94	VPT230-220
100	12V CT @ 8.33A	6.0V @ 16.66A	87	47	237-1336-ND	39.69	33.74	27.78	VPT12-8330
100	18V CT @ 5.56A	9.0V @ 11.12A	87	47	237-1337-ND	39.69	33.74	27.78	VPT18-5560
100	24V CT @ 4.17A	12V @ 8.34A	87	47	237-1339-ND	39.69	33.74	27.78	VPT24-4170

(Continued)

NEW! Power Transformers *(Cont.)*

VA	Secondary		Dimensions (mm)		Digi-Key	Price Each			Triad
	Series	Parallel	øD	H	Part No.	1	10	25	Part No.
100	30V CT @ 3.33A	15V @ 6.66A	87	47	237-1340-ND	39.69	33.74	27.78	VPT30-3330
100	36V CT @ 2.78A	18V @ 5.56A	87	47	237-1341-ND	39.69	33.74	27.78	VPT36-2780
100	48V CT @ 2.08A	24V @ 4.16A	87	47	237-1342-ND	39.69	33.74	27.78	VPT48-2080
100	230V CT @ 0.43A	115V @ 0.86A	87	47	237-1338-ND	39.69	33.74	27.78	VPT230-430
160	12V CT @ 13.3A	6.0V @ 26.60A	103	48	237-1343-ND	55.93	47.54	39.15	VPT12-13300
160	18V CT @ 8.8A	9.0V @ 17.60A	103	48	237-1344-ND	55.93	47.54	39.15	VPT18-8800
160	24V CT @ 6.67A	12V @ 13.34A	103	48	237-1346-ND	55.93	47.54	39.15	VPT24-6670
160	30V CT @ 5.33A	15V @ 10.66A	103	48	237-1347-ND	55.93	47.54	39.15	VPT30-5330
160	36V CT @ 4.44A	18V @ 8.88A	103	48	237-1348-ND	55.93	47.54	39.15	VPT36-4440
160	48V CT @ 3.33A	24V @ 6.66A	103	48	237-1349-ND	55.93	47.54	39.15	VPT48-3300
160	230V CT @ 0.70A	115V @ 1.40A	103	48	237-1345-ND	55.93	47.54	39.15	VPT230-700
250	12V CT @ 20.8A	6.0V @ 41.60A	112	54	237-1350-ND	76.79	65.27	53.75	VPT12-20800
250	18V CT @ 13.8A	9.0V @ 27.60A	112	54	237-1351-ND	76.79	65.27	53.75	VPT18-13800
250	24V CT @ 10.42A	12V @ 20.84A	112	54	237-1353-ND	76.79	65.27	53.75	VPT24-10420
250	36V CT @ 6.94A	18V @ 13.88A	112	54	237-1354-ND	76.79	65.27	53.75	VPT36-6940
250	48V CT @ 5.20A	24V @ 10.40A	112	54	237-1355-ND	76.79	65.27	53.75	VPT48-5200
250	230V CT @ 1.09A	115V @ 2.18A	112	54	237-1352-ND	76.79	65.27	53.75	VPT230-1090
500	48V CT @ 10.4A	24V @ 20.8A	140	60	237-1358-ND	119.26	101.37	83.48	VPT48-10400
500	100V CT @ 5.0A	50V @ 10.0A	140	60	237-1356-ND	119.26	101.37	83.48	VPT100-5000
500	230V CT @ 2.17A	115V @ 4.34A	140	60	237-1357-ND	119.26	101.37	83.48	VPT230-2170
1000	48V CT @ 20.83A	24V @ 41.66A	175	68	237-1361-ND	168.78	151.90	143.46	VPT48-20830
1000	100V CT @ 10.0A	50V @ 20.0A	175	68	237-1359-ND	168.78	151.90	143.46	VPT100-10000
1000	230V CT @ 4.35A	115V @ 8.70A	175	68	237-1360-ND	168.78	151.90	143.46	VPT230-4350

energy efficiency and reliability

RFI Suppression Chokes and Pulse Transformers

Common Mode Suppression Chokes

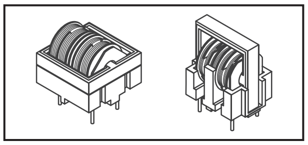

Common-mode suppression chokes are mainly used to filter noise on AC power lines.

Features: • Broadband attenuation characteristics • Compact and lightweight • Low magnetic leakage flux • UL rated materials

L nominal (±30%) (mH)	DC Resistance R (mΩ)	Rated Current I (50°C) (A)	Digi-Key Part No.	Price Each			Schaffner Part No.
				1	25	100	
Horizontal							
33	1780	0.3	817-1000-ND	1.18	.94	.76	EH20-0.3-02-33M
18	725	0.5	817-1001-ND	1.18	.94	.76	EH20-0.5-02-18M
5.6	245	0.8	817-1002-ND	1.18	.94	.76	EH20-0.8-02-5M6
3.9	168	1.0	817-1003-ND	1.18	.94	.76	EH20-1.0-02-3M9
3.3	127	1.2	817-1004-ND	1.18	.94	.76	EH20-1.2-02-3M3
1.8	72	1.5	817-1005-ND	1.18	.94	.76	EH20-1.5-02-1M8
0.82	38	2.0	817-1006-ND	1.18	.94	.76	EH20-2.0-02-0M8
44	1250	0.5	817-1007-ND	1.65	1.32	1.06	EH24-0.5-02-44M
18	438	0.8	817-1008-ND	1.65	1.32	1.06	EH24-0.8-02-18M
10	244	1.0	817-1009-ND	1.65	1.32	1.06	EH24-1.0-02-10M
4.5	116	1.5	817-1010-ND	1.65	1.32	1.06	EH24-1.5-02-4M5
2.5	62	2.0	817-1011-ND	1.65	1.32	1.06	EH24-2.0-02-2M5
1.2	29	3.0	817-1012-ND	1.65	1.32	1.06	EH24-3.0-02-1M2
0.5	16	4.0	817-1013-ND	1.65	1.32	1.06	EH24-4.0-02-0M5
36	591	1.0	817-1014-ND	2.13	1.70	1.36	EH28-1.0-02-36M
75	1760	1.0	817-1015-ND	2.13	1.70	1.36	EH28-1.0-02-75M-X
20	282	1.5	817-1016-ND	2.38	1.90	1.52	EH28-1.5-02-20M
27	564	1.5	817-1017-ND	2.38	1.90	1.52	EH28-1.5-02-27M-X
11	162	2.0	817-1018-ND	2.38	1.90	1.52	EH28-2.0-02-11M
15	392	2.0	817-1019-ND	2.38	1.90	1.52	EH28-2.0-02-15M-X
5	79	3.0	817-1020-ND	2.13	1.70	1.36	EH28-3.0-02-5M0
9	230	3.0	817-1021-ND	2.13	1.70	1.36	EH28-3.0-02-9M0-X
2.3	40	4.0	817-1022-ND	2.13	1.70	1.36	EH28-4.0-02-2M3
3.5	104	4.0	817-1023-ND	2.13	1.70	1.36	EH28-4.0-02-3M5-X
1.1	27	5.0	817-1024-ND	2.13	1.70	1.36	EH28-5.0-02-1M1
90	628	1.0	817-1025-ND	4.03	3.22	2.58	EH35-1.0-02-90M
20	150	2.0	817-1026-ND	4.03	3.22	2.58	EH35-2.0-02-20M
10	72	3.0	817-1027-ND	4.03	3.22	2.58	EH35-3.0-02-10M
5	53	4.0	817-1028-ND	4.03	3.22	2.58	EH35-4.0-02-5M0
3.6	33	5.0	817-1029-ND	4.03	3.22	2.58	EH35-5.0-02-3M6
Vertical							
33	1780	0.3	817-1030-ND	1.18	.94	.76	EV20-0.3-02-33M
18	725	0.5	817-1031-ND	1.18	.94	.76	EV20-0.5-02-18M
5.6	245	0.8	817-1032-ND	1.18	.94	.76	EV20-0.8-02-5M6
3.9	168	1.0	817-1033-ND	1.18	.94	.76	EV20-1.0-02-3M9
3.3	127	1.2	817-1034-ND	1.18	.94	.76	EV20-1.2-02-3M3
1.8	72	1.5	817-1035-ND	1.18	.94	.76	EV20-1.5-02-1M8
0.82	38	2.0	817-1036-ND	1.18	.94	.76	EV20-2.0-02-0M8
44	1250	0.5	817-1037-ND	1.65	1.32	1.06	EV24-0.5-02-44M
18	438	0.8	817-1039-ND	1.65	1.32	1.06	EV24-0.8-02-18M
10	244	1.0	817-1040-ND	1.65	1.32	1.06	EV24-1.0-02-10M
4.5	116	1.5	817-1041-ND	1.65	1.32	1.06	EV24-1.5-02-4M5
2.5	62	2.0	817-1042-ND	1.65	1.32	1.06	EV24-2.0-02-2M5
1.2	29	3.0	817-1043-ND	1.65	1.32	1.06	EV24-3.0-02-1M2
0.5	16	4.0	817-1044-ND	1.65	1.32	1.06	EV24-4.0-02-0M5
36	591	1.0	817-1045-ND	2.13	1.70	1.36	EV28-1.0-02-36M
20	282	1.5	817-1046-ND	2.38	1.90	1.52	EV28-1.5-02-20M
27	574	1.5	817-1047-ND	2.38	1.90	1.52	EV28-1.5-02-27M-X
11	162	2.0	817-1048-ND	2.13	1.70	1.36	EV28-2.0-02-11M
5	79	3.0	817-1049-ND	2.13	1.70	1.36	EV28-3.0-02-5M0
9	230	3.0	817-1050-ND	2.13	1.70	1.36	EV28-3.0-02-9M0-X
2.3	40	4.0	817-1051-ND	2.13	1.70	1.36	EV28-4.0-02-2M3
1.1	27	5.0	817-1052-ND	2.13	1.70	1.36	EV28-5.0-02-1M1
90	628	1.0	817-1053-ND	4.03	3.22	2.58	EV35-1.0-02-90M
20	150	2.0	817-1054-ND	4.03	3.22	2.58	EV35-2.0-02-20M
10	72	3.0	817-1055-ND	4.03	3.22	2.58	EV35-3.0-02-10M
5	53	4.0	817-1056-ND	4.03	3.22	2.58	EV35-4.0-02-5M0
3.6	33	5.0	817-1057-ND	4.03	3.22	2.58	EV35-5.0-02-3M6

Current Compensated Chokes

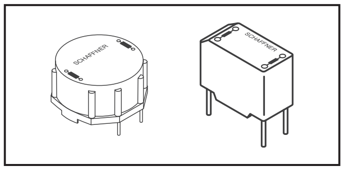

RN chokes are attenuating common-mode or asymmetric interference signals, by being connected in series with the phase and neutral lines of an AC power-line input.

Features: • High saturation resistance and excellent thermal behavior • DC to 1kHz frequency • 100kHz ~ 3MHz common-mode resonance frequency

Nominal Current @40°C (A)	Inductance L (mH)	Resistance R (mΩ)	Digi-Key Part No.	Price Each			Schaffner Part No.
				1	25	250	
Horizontal							
0.3	12	1275	817-1523-ND	1.81	1.65	1.06	RN102-0.3-02
0.6	4.4	385	817-1524-ND	1.81	1.65	1.06	RN102-0.6-02
1	3	205	817-1525-ND	1.81	1.65	1.06	RN102-1-02
1.5	1.6	100	817-1526-ND	1.81	1.65	1.06	RN102-1.5-02
2	1.1	70	817-1527-ND	1.81	1.65	1.06	RN102-2-02
0.4	39	1460	817-1528-ND	1.93	1.76	1.17	RN112-0.4-02
0.5	27	1250	817-1529-ND	1.93	1.76	1.17	RN112-0.5-02
0.6	15	465	817-1530-ND	1.93	1.76	1.17	RN112-0.6-02
0.8	10	370	817-1531-ND	1.93	1.76	1.17	RN112-0.8-02
1.2	6.8	245	817-1532-ND	1.93	1.76	1.17	RN112-1.2-02
1.5	3.3	135	817-1533-ND	1.93	1.76	1.17	RN112-1.5-02
2	1.8	75	817-1534-ND	1.93	1.76	1.17	RN112-2-02
4	0.7	27	817-1535-ND	1.93	1.76	1.17	RN112-4-02
0.3	47	1750	817-1536-ND	1.92	1.75	1.16	RN114-0.3-02
0.5	39	810	817-1537-ND	1.92	1.75	1.16	RN114-0.5-02
0.8	27	500	817-1538-ND	1.92	1.75	1.16	RN114-0.8-02
1	15	375	817-1539-ND	1.92	1.75	1.16	RN114-1-02
1.2	10	200	817-1540-ND	1.92	1.75	1.16	RN114-1.2-02
1.5	6.8	130	817-1541-ND	1.92	1.75	1.16	RN114-1.5-02
2	4.2	102	817-1542-ND	1.92	1.75	1.16	RN114-2-02
2.5	3.3	72	817-1543-ND	1.92	1.75	1.37	RN114-2.5-02
3	2	55	817-1544-ND	1.92	1.75	1.37	RN114-3-02
4	1.5	35	817-1545-ND	1.92	1.75	1.37	RN114-4-02
0.6	47	1180	817-1546-ND	2.40	2.18	1.48	RN122-0.6-02
0.8	39	1000	817-1547-ND	2.63	2.40	1.58	RN122-0.8-02
1.5	10	220	817-1548-ND	2.40	2.18	1.48	RN122-1.5-02
2	6.8	147	817-1549-ND	2.40	2.18	1.48	RN122-2-02
4	3.3	45	817-1550-ND	2.40	2.18	1.48	RN122-4-02
1	68	1300	817-1551-ND	5.64	5.13	3.48	RN152-1-02
2	18	350	817-1552-ND	5.64	5.13	3.48	RN152-2-02
4	6.8	87	817-1553-ND	5.64	5.13	3.48	RN152-4-02
6	3.9	41	817-1554-ND	5.64	5.13	3.48	RN152-6-02
8	2.7	22	817-1555-ND	5.64	5.13	3.48	RN152-8-02
10	1.8	14	817-1556-ND	5.64	5.13	3.48	RN152-10-02
Vertical							
0.3	12	1275	817-1557-ND	1.81	1.65	1.06	RN202-0.3-02
0.6	4.4	385	817-1558-ND	1.81	1.65	1.06	RN202-0.6-02
1	3	205	817-1559-ND	1.81	1.65	1.06	RN202-1-02
1.5	1.6	100	817-1560-ND	1.81	1.65	1.06	RN202-1.5-02
2	1.1	70	817-1561-ND	1.81	1.65	1.06	RN202-2-02
0.4	39	1460	817-1562-ND	1.93	1.76	1.17	RN212-0.4-02
0.5	27	1250	817-1563-ND	1.93	1.76	1.17	RN212-0.5-02
0.6	15	465	817-1564-ND	1.93	1.76	1.17	RN212-0.6-02
0.8	10	370	817-1565-ND	1.93	1.76	1.17	RN212-0.8-02
1.2	6.8	245	817-1566-ND	1.93	1.76	1.17	RN212-1.2-02
1.5	3.3	135	817-1567-ND	1.93	1.76	1.17	RN212-1.5-02
2	1.8	75	817-1568-ND	1.93	1.76	1.17	RN212-2-02
4	0.7	27	817-1569-ND	1.93	1.76	1.17	RN212-4-02
0.3	47	1750	817-1570-ND	1.92	1.75	1.16	RN214-0.3-02
0.5	39	810	817-1571-ND	1.92	1.75	1.16	RN214-0.5-02
0.5	56	810	817-1572-ND	1.93	1.76	1.16	RN214-0.5-02-56
0.8	27	500	817-1573-ND	1.92	1.75	1.16	RN214-0.8-02
1	15	375	817-1574-ND	1.92	1.75	1.16	RN214-1-02
1.2	10	200	817-1575-ND	1.92	1.75	1.16	RN214-1.2-02
1.5	6.8	130	817-1576-ND	1.92	1.75	1.16	RN214-1.5-02
2	4.2	102	817-1577-ND	1.92	1.75	1.16	RN214-2-02
2.5	3.3	72	817-1578-ND	1.92	1.75	1.16	RN214-2.5-02
3	2	55	817-1579-ND	1.92	1.75	1.16	RN214-3-02
4	1.5	35	817-1580-ND	1.92	1.75	1.16	RN214-4-02
1	18	610	817-1581-ND	2.40	2.18	1.48	RN222-1-02
1.5	10	220	817-1582-ND	2.40	2.18	1.48	RN222-1,5-02
2	6.8	147	817-1583-ND	2.40	2.18	1.48	RN222-2-02
2.5	5.6	105	817-1584-ND	2.40	2.18	1.48	RN222-2,5-02
4	3.3	45	817-1585-ND	2.40	2.18	1.48	RN222-4-02

Pulse Transformers

IT pulse transformers are designed to offer galvanic isolation for transformer coupled gate drives.
Features: • Galvanic separation of drive and power circuit • Voltage resistance up to 8kV (single secondary winding), up to 4kV (double secondary winding)

Turns Ratio	Ignition Current I_{ign} (A)	Voltage U_{nom} (V)	Inductance Lp (mH)	Digi-Key Part No.	Price Each			Schaffner Part No.
					1	100	500	
Single Secondary Winding								
1:1	0.25	500	3	817-1505-ND	6.65	4.43	3.90	IT235
1:1	0.25	500	25	817-1506-ND	9.72	6.43	5.69	IT237
1:1	0.25	1000	3	817-1507-ND	6.11	4.11	3.69	IT238
1:1	0.25	1000	3	817-1508-ND	9.16	6.11	5.48	IT239
1:1	0.1	750	8	817-1512-ND	4.59	3.06	2.75	IT245
2:1	0.1	750	7	817-1513-ND	5.13	3.38	3.06	IT246
2:1	0.25	750	17	817-1515-ND	5.13	3.38	3.06	IT248
1:1	0.25	750	2.2	817-1518-ND	4.59	3.06	2.75	IT255
1:1	1	750	2.5	817-1519-ND	8.39	5.58	4.95	IT258
3:1	0.1	500	12	817-1520-ND	8.84	5.80	5.17	IT260
Double Secondary Winding								
1:1:1	0.025	500	15	817-1502-ND	7.36	5.26	4.73	IT143
1:1:1	0.25	500	3	817-1503-ND	6.65	4.43	3.90	IT233
3:1:1	0.25	500	17	817-1504-ND	7.31	4.85	4.32	IT234
1:1:1	0.1	500	2.5	817-1509-ND	4.91	3.27	2.95	IT242
1:1:1	0.1	500	2.5	817-1510-ND	4.91	3.27	2.95	IT243
3:1:1	0.1	500	15	817-1511-ND	4.91	3.27	2.95	IT244
2:1:1	0.1	500	7	817-1514-ND	5.13	3.38	3.06	IT247
2:1:1	0.25	500	17	817-1516-ND	5.13	3.38	3.06	IT249
1:1:1	0.25	500	1.1	817-1517-ND	4.91	3.27	2.95	IT253
1:1:1	0.25	380	21	817-1521-ND	14.73	9.69	8.64	IT312
1:1:1	1	380	3	817-1522-ND	13.97	9.28	8.33	IT313

Signal Transformer

One-4-All™ International Transformers Printed Circuit Mount

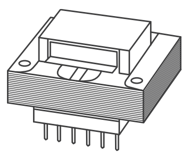

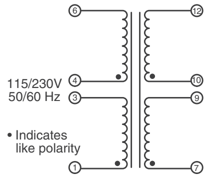

Specifications:
• Dielectric **Strength**: 4000VRMS Hipot • **Insulation**: Class F insulation (155°C) • **Flammability**: Bobbin and wrap around shroud material meet UL 94V0

Agency Standards:
• UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805/ EN 60950 (File #1446) • VDE certified to IEC 950

VA Size	Dimensions – Inch (mm) L	W	H	A	B	C	Square Pin Dimensions	Weight Lbs. (Kg)
2.5	1.62 (41.3)	1.43 (36.5)	1.12 (28.6)	0.200 (5.08)	0.250 (6.35)	1.000 (25.4)	0.025 (0.635)	0.25 (0.113)
5	1.62 (41.3)	1.43 (36.5)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.000 (25.4)	0.025 (0.635)	0.37 (0.168)
10	1.87 (47.6)	1.56 (39.7)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.140 (29.0)	0.038 (0.965)	0.53 (0.240)
20	2.25 (57.2)	1.87 (47.6)	1.62 (41.3)	0.400 (10.2)	0.400 (10.16)	1.460 (37.1)	0.038 (0.965)	0.90 (0.41)
30	2.62 (66.7)	2.18 (55.5)	1.56 (39.7)	0.550 (13.9)	0.275 (7.0)	1.680 (42.7)	0.045 (1.14)	1.15 (0.52)
56	3.00 (76.2)	2.50 (63.5)	1.81 (46.0)	0.600 (15.2)	0.300 (7.6)	1.900 (48.3)	0.045 (1.14)	1.70 (0.77)

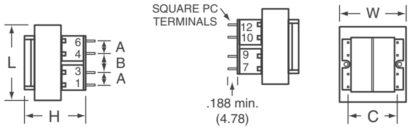

VA Size	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2.5	12.6 @ 0.20	6.3 @ 0.40	595-1000-ND	10.30	7.77	6.76	14A-2.5R-12
5	12.6 @ 0.40	6.3 @ 0.80	595-1001-ND	11.15	8.41	7.31	14A-5.0R-12
10	12.6 @ 0.80	6.3 @ 1.60	595-1002-ND	12.34	9.33	8.12	14A-10R-12
20	12.6 @ 1.6	6.3 @ 3.2	595-1003-ND	15.01	11.38	9.93	14A-20-12
30	12.6 @ 2.4	6.3 @ 4.8	595-1004-ND	18.10	13.80	12.08	14A-30-12
56	12.6 @ 4.4	6.3 @ 8.8	595-1005-ND	23.04	17.64	15.47	14A-56-12
2.5	16 @ 0.15	8 @ 0.30	595-1006-ND	10.30	7.77	6.76	14A-2.5R-16
5	16 @ 0.31	8 @ 0.62	595-1007-ND	11.15	8.41	7.31	14A-5.0R-16
10	16 @ 0.62	8 @ 1.25	595-1008-ND	12.34	9.33	8.12	14A-10R-16
20	16 @ 1.25	8 @ 2.5	595-1009-ND	15.01	11.38	9.93	14A-20-16
30	16 @ 1.9	8 @ 3.8	595-1010-ND	18.10	13.80	12.08	14A-30-16
56	16 @ 3.5	8 @ 7.0	595-1011-ND	23.04	17.64	15.47	14A-56-16
2.5	20 @ 0.12	10 @ 0.24	595-1012-ND	10.30	7.77	6.76	14A-2.5R-20
5	20 @ 0.25	10 @ 0.50	595-1013-ND	11.15	8.41	7.31	14A-5.0R-20
10	20 @ 0.50	10 @ 1.00	595-1014-ND	12.34	9.33	8.12	14A-10R-20
20	20 @ 1.0	10 @ 2.0	595-1015-ND	15.01	11.38	9.93	14A-20-20
30	20 @ 1.5	10 @ 3.0	595-1016-ND	18.10	13.80	12.08	14A-30-20
56	20 @ 2.8	10 @ 5.6	595-1017-ND	23.04	17.64	15.47	14A-56-20

VA Size	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2.5	24 @ 0.10	12 @ 0.20	595-1018-ND	10.30	7.77	6.76	14A-2.5R-24
5	24 @ 0.21	12 @ 0.42	595-1019-ND	11.15	8.41	7.31	14A-5.0R-24
10	24 @ 0.42	12 @ 0.84	595-1020-ND	12.34	9.33	8.12	14A-10R-24
20	24 @ 0.83	12 @ 1.66	595-1021-ND	15.01	11.38	9.93	14A-20-24
30	24 @ 1.25	12 @ 2.50	595-1022-ND	18.10	13.80	12.08	14A-30-24
56	24 @ 2.33	12 @ 4.66	595-1023-ND	23.04	17.64	15.47	14A-56-24
2.5	28 @ 0.09	14 @ 0.18	595-1024-ND	10.30	7.77	6.76	14A-2.5R-28
10	28 @ 0.36	14 @ 0.72	595-1025-ND	12.34	9.33	8.12	14A-10R-28
20	28 @ 0.72	14 @ 1.44	595-1026-ND	15.01	11.38	9.93	14A-20-28
30	28 @ 1.06	14 @ 2.12	595-1027-ND	18.10	13.80	12.08	14A-30-28
56	28 @ 2.0	14 @ 4.0	595-1028-ND	23.04	17.64	15.47	14A-56-28
2.5	36 @ 0.07	18 @ 0.14	595-1029-ND	10.30	7.77	6.76	14A-2.5-36
5	36 @ 0.14	18 @ 0.28	595-1030-ND	11.15	8.41	7.31	14A-5.0-36
10	36 @ 0.28	18 @ 0.56	595-1031-ND	12.34	9.33	8.12	14A-10-36
20	36 @ 0.56	18 @ 1.12	595-1032-ND	15.01	11.38	9.93	14A-20-36
30	36 @ 0.82	18 @ 1.64	595-1033-ND	18.10	13.80	12.08	14A-30-36
56	36 @ 1.56	18 @ 3.12	595-1034-ND	23.04	17.64	15.47	14A-56-36

Two-4-One™ Power Transformers Chassis Mount Split Bobbin with High Isolation

Specifications:
• **Dielectric Strength**: 2500VRMS Hipot • **Terminals**: Solder lug/quick-connect type terminals • **Insulation**: Class B (130°C) UL 1446 E66312

Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

(DP-241-4 Shown)

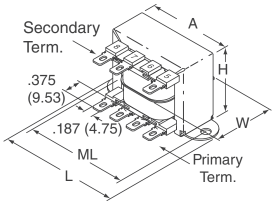

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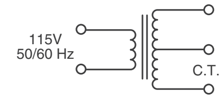

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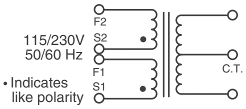

VA Size	Dimensions – Inch (mm) L	W	H	A	ML (typ.)	Weight Lbs. (Kg)
6	2.37 (60.3)	1.31 (33.3)	1.43 (36.2)	1.71 (43.4)	2.00 (50.8)	0.44 (0.20)
12	2.81 (71.4)	1.43 (36.3)	1.69 (42.8)	1.97 (49.9)	2.37 (60.3)	0.7 (0.32)
30	3.25 (82.6)	1.74 (44.3)	1.96 (49.8)	2.35 (59.3)	2.81 (71.4)	1.1 (0.50)
56	3.68 (93.7)	1.94 (49.2)	2.28 (57.8)	2.70 (68.4)	3.13 (79.4)	1.7 (0.77)
100	4.03 (102.4)	2.30 (58.5)	2.67 (67.7)	3.08 (78.2)	3.63 (92.0)	2.75 (1.25)

Fig. 1

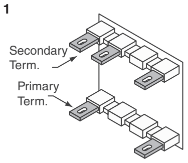

Fig. 2

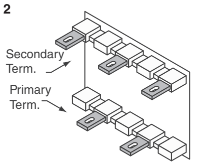

Fig. 3

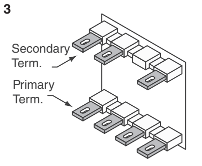

Fig. 4

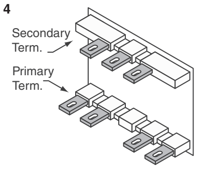

Fig. 5

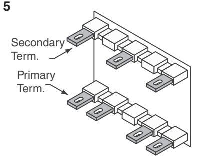

Fig.	VA Size	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Single Primary 115V							
1	6	10 @ 0.60	595-1035-ND	9.90	7.50	6.53	241-4-10
1	12	10 @ 1.2	595-1036-ND	10.97	8.32	7.26	241-5-10
2	30	10 @ 3.0	595-1037-ND	15.41	11.74	10.27	241-6-10
2	56	10 @ 5.0	595-1038-ND	31.39	24.42	20.93	241-7-10
2	100	10 @ 10	595-1039-ND	29.39	22.59	19.88	241-8-10
1	6	12.6 @ 0.50	595-1040-ND	9.90	7.50	6.53	241-4-12
1	12	12.6 @ 1.0	595-1041-ND	10.97	8.32	7.26	241-5-12
2	30	12.6 @ 2.5	595-1042-ND	15.41	11.74	10.27	241-6-12
2	56	12.6 @ 4.0	595-1043-ND	31.39	24.42	20.93	241-7-12
2	100	12.6 @ 8.0	595-1044-ND	29.39	22.59	19.88	241-8-12
1	6	16 @ 0.40	595-1045-ND	9.90	7.50	6.53	241-4-16
1	12	16 @ 0.80	595-1046-ND	10.97	8.32	7.26	241-5-16
2	30	16 @ 2.0	595-1047-ND	15.41	11.74	10.27	241-6-16
2	56	16 @ 3.5	595-1048-ND	21.44	16.41	14.40	241-7-16
2	100	16 @ 6.25	595-1049-ND	29.39	22.59	19.88	241-8-16
1	6	20 @ 0.30	595-1050-ND	9.90	7.50	6.53	241-4-20
1	12	20 @ 0.60	595-1051-ND	10.97	8.32	7.26	241-5-20
2	30	20 @ 1.5	595-1052-ND	15.41	11.74	10.27	241-6-20
2	56	20 @ 2.8	595-1053-ND	21.44	16.41	14.40	241-7-20
1	6	24 @ 0.25	595-1055-ND	9.90	7.50	6.53	241-4-24
1	12	24 @ 0.50	595-1056-ND	10.97	8.32	7.26	241-5-24
2	30	24 @ 1.25	595-1057-ND	15.41	11.74	10.27	241-6-24
2	56	24 @ 2.4	595-1058-ND	21.44	16.41	14.40	241-7-24
2	100	24 @ 4.0	595-1059-ND	29.39	22.59	19.88	241-8-24
2	30	28 @ 1.1	595-1061-ND	15.41	11.74	10.27	241-6-28
2	56	28 @ 2.0	595-1062-ND	21.44	16.41	14.40	241-7-28
1	6	36 @ 0.17	595-1064-ND	9.90	7.50	6.53	241-4-36
1	12	36 @ 0.35	595-1065-ND	10.97	8.32	7.26	241-5-36
2	56	36 @ 1.5	595-1067-ND	21.44	16.41	14.40	241-7-36
2	100	36 @ 2.8	595-1068-ND	29.39	22.59	19.88	241-8-36

Fig.	VA Size	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Dual Primary 115V / 230V							
3	6	10 @ 0.60	595-1069-ND	12.00	9.07	7.90	DP-241-4-10
3	12	10 @ 1.2	595-1070-ND	13.23	10.01	8.72	DP-241-5-10
4	30	10 @ 3.0	595-1071-ND	17.38	13.21	11.55	DP-241-6-10
5	56	10 @ 5.0	595-1072-ND	21.99	16.82	14.76	DP-241-7-10
5	100	10 @ 10	595-1073-ND	30.75	23.62	20.76	DP-241-8-10
3	6	12.6 @ 0.50	595-1074-ND	12.00	9.07	7.90	DP-241-4-12
3	12	12.6 @ 1.0	595-1075-ND	13.23	10.01	8.72	DP-241-5-12
4	30	12.6 @ 2.5	595-1076-ND	17.38	13.21	11.55	DP-241-6-12
5	100	12.6 @ 8.0	595-1078-ND	30.75	23.62	20.76	DP-241-8-12
3	6	16 @ 0.40	595-1079-ND	12.00	9.07	7.90	DP-241-4-16
3	12	16 @ 0.80	595-1080-ND	13.23	10.01	8.72	DP-241-5-16
4	30	16 @ 2.0	595-1081-ND	17.38	13.21	11.55	DP-241-6-16
3	12	20 @ 0.60	595-1085-ND	13.23	10.01	8.72	DP-241-5-20
4	30	20 @ 1.5	595-1086-ND	17.38	13.21	11.55	DP-241-6-20
5	56	20 @ 2.8	595-1087-ND	21.99	16.82	14.76	DP-241-7-20
3	6	24 @ 0.25	595-1089-ND	12.00	9.07	7.90	DP-241-4-24
3	12	24 @ 0.50	595-1090-ND	13.23	10.01	8.72	DP-241-5-24
4	30	24 @ 1.25	595-1091-ND	17.38	13.21	11.55	DP-241-6-24
5	56	24 @ 2.4	595-1092-ND	21.99	16.82	14.76	DP-241-7-24
5	100	24 @ 4.0	595-1093-ND	30.75	23.62	20.76	DP-241-8-24
3	12	28 @ 0.42	595-1094-ND	13.23	10.01	8.72	DP-241-5-28
4	30	28 @ 1.1	595-1095-ND	17.38	13.21	11.55	DP-241-6-28
5	56	28 @ 2.0	595-1096-ND	21.99	16.82	14.76	DP-241-7-28
5	100	28 @ 3.6	595-1097-ND	30.75	23.62	20.76	DP-241-8-28
3	6	36 @ 0.17	595-1098-ND	12.00	9.07	7.90	DP-241-4-36
4	30	36 @ 0.85	595-1100-ND	17.38	13.21	11.55	DP-241-6-36
5	56	36 @ 1.5	595-1101-ND	21.99	16.82	14.76	DP-241-7-36
5	100	36 @ 2.8	595-1102-ND	30.75	23.62	20.76	DP-241-8-36

Signal Transformer Flat Head™ Low Profile Transformers Printed Circuit Mount

Specifications:
- Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)

Agency Standards:
- UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA (Size)	Dimensions – Inch (mm) A	B	C	L	W	H	N	Wgt. oz. (kg)
2	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.650 (16.5)	—	5 (0.14)
6	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.850 (21.6)	—	7 (0.20)
12	2.00 (50.8)	0.50 (12.7)	0.50 (12.7)	2.50 (63.5)	2.00 (50.8)	1.065 (27.1)	—	11 (0.31)
24	1.90 (48.3)	0.60 (15.2)	0.53 (13.5)	2.87 (72.9)	2.25 (57.2)	1.250 (31.8)	2.41 (61.2)	15 (0.43)
48	2.18 (55.4)	0.60 (15.2)	0.66 (16.8)	3.12 (79.2)	2.50 (63.5)	1.375 (34.9)	2.62 (66.5)	21 (0.60)

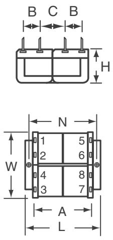

Primary
115/230V
50/60 Hz

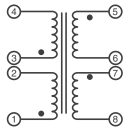

• Indicates like polarity

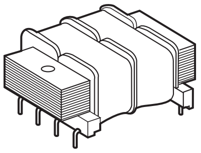

VA (Size)	Series VCT @ mA	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2	10 @ 250	5 @ 0.5	595-1308-ND	11.49	8.70	7.58	LP-10-250
6	10 @ 600	5 @ 1.2	595-1309-ND	12.64	9.57	8.34	LP-10-600
24	10 @ 2400	5 @ 4.8	595-1311-ND	18.55	14.19	12.45	LP-10-2400
2	12.6 @ 200	6.3 @ 0.4	595-1313-ND	11.49	8.70	7.58	LP-12-200
6	12.6 @ 450	6.3 @ 0.9	595-1314-ND	12.64	9.57	8.34	LP-12-450
24	12.6 @ 1900	6.3 @ 3.8	595-1316-ND	18.55	14.19	12.45	LP-12-1900
48	12.6 @ 3800	6.3 @ 7.6	595-1317-ND	22.97	17.65	15.52	LP-12-3800
2	16 @ 150	8 @ 0.3	595-1318-ND	11.49	8.70	7.58	LP-16-150
6	16 @ 350	8 @ 0.7	595-1319-ND	12.64	9.57	8.34	LP-16-350
12	16 @ 700	8 @ 1.4	595-1320-ND	16.54	12.61	11.04	LP-16-700
24	16 @ 1500	8 @ 3.0	595-1321-ND	18.55	14.19	12.45	LP-16-1500
2	20 @ 125	10 @ 0.25	595-1323-ND	11.49	8.70	7.58	LP-20-125
12	20 @ 600	10 @ 1.2	595-1324-ND	16.54	12.61	11.04	LP-20-600
24	20 @ 1200	10 @ 2.4	595-1325-ND	18.55	14.19	12.45	LP-20-1200
48	20 @ 2400	10 @ 4.8	595-1326-ND	22.97	17.65	15.52	LP-20-2400
2	24 @ 100	12 @ 0.2	595-1327-ND	11.49	8.70	7.58	LP-24-100
6	24 @ 250	12 @ 0.5	595-1328-ND	12.64	9.57	8.34	LP-24-250
12	24 @ 500	12 @ 1.0	595-1329-ND	16.54	12.61	11.04	LP-24-500
24	24 @ 1000	12 @ 2.0	595-1330-ND	18.55	14.19	12.45	LP-24-1000
48	24 @ 2000	12 @ 4.0	595-1331-ND	22.97	17.65	15.52	LP-24-2000
2	30 @ 85	15 @ 0.17	595-1332-ND	11.49	8.70	7.58	LP-30-85
6	30 @ 200	15 @ 0.4	595-1333-ND	12.64	9.57	8.34	LP-30-200
12	30 @ 400	15 @ 0.8	595-1334-ND	16.54	12.61	11.04	LP-30-400
24	30 @ 800	15 @ 1.6	595-1335-ND	18.55	14.19	12.45	LP-30-800
2	34 @ 75	17 @ 0.15	595-1337-ND	11.49	8.70	7.58	LP-34-75
6	34 @ 170	17 @ 0.34	595-1338-ND	12.64	9.57	8.34	LP-34-170
12	34 @ 340	17 @ 0.68	595-1339-ND	16.54	12.61	11.04	LP-34-340
24	34 @ 700	17 @ 1.4	595-1340-ND	18.55	14.19	12.45	LP-34-700
48	34 @ 1400	17 @ 2.8	595-1341-ND	22.97	17.65	15.52	LP-34-1400
2	40 @ 60	20 @ 0.12	595-1342-ND	11.49	8.70	7.58	LP-40-60
6	40 @ 150	20 @ 0.3	595-1343-ND	12.64	9.57	8.34	LP-40-150
12	40 @ 300	20 @ 0.6	595-1344-ND	16.54	12.61	11.04	LP-40-300
24	40 @ 600	20 @ 1.2	595-1345-ND	18.55	14.19	12.45	LP-40-600
48	40 @ 1200	20 @ 2.4	595-1346-ND	22.97	17.65	15.52	LP-40-1200

Miniature Low Power Transformers

Signal's PC low power transformers are designed to operate between 50 and 500Hz without any degradation in output voltage.

Specifications:
Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)

Agency Standards:
- UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA (Size)	Dimensions – Inch (mm) L	W	H	A (6-Pin)	A (8-Pin)	B	Wgt. oz. (kg)
1.2	1.37 (34.9)	1.12 (28.6)	1.18 (30.15)	0.312 (7.92)	0.200 (5.08)	1.030 (26.2)	3 (0.08)
4.4	1.62 (41.3)	1.25 (31.8)	1.37 (34.92)	0.400 (10.16)	0.250 (6.35)	1.130 (28.7)	5 (0.14)
10	1.87 (47.6)	1.43 (36.5)	1.62 (41.27)	0.400 (10.16)	0.250 (6.35)	1.330 (38.8)	9 (0.23)
24	1.62 (41.3)	2.25 (57.2)	1.37 (34.93)	0.400 (10.16)	0.250 (6.35)	2.130 (54.1)	12 (0.34)

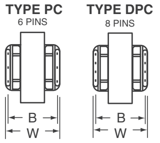

Single 115V Primary
Type PC 6 Pins

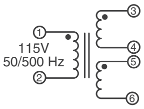

• Indicates like polarity

Dual 115/230V Primary
Type DPC 8 Pins

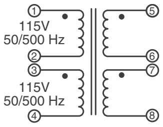

• Indicates like polarity

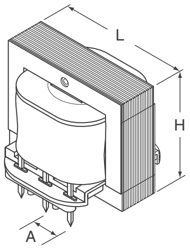

Single Primary 115V (6-Pin) — Type PC

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
1.2	12.6 @ 100	6.3 @ 200	595-1103-ND	8.08	6.11	5.33	PC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1104-ND	9.57	7.26	6.34	PC-12-350
1.2	16 @ 75	8 @ 150	595-1107-ND	7.92	6.16	5.28	PC-16-75
4.4	16 @ 260	8 @ 520	595-1108-ND	9.57	7.26	6.34	PC-16-260
10	16 @ 640	8 @ 1280	595-1109-ND	11.10	8.43	7.37	PC-16-640
24	16 @ 1500	8 @ 3000	595-1110-ND	15.46	11.72	10.23	PC-16-1500
4.4	20 @ 220	10 @ 440	595-1112-ND	9.57	7.26	6.34	PC-20-220
10	20 @ 500	10 @ 1000	595-1113-ND	11.10	8.43	7.37	PC-20-500
1.2	24 @ 50	12 @ 100	595-1115-ND	8.08	6.11	5.33	PC-24-50
4.4	24 @ 180	12 @ 360	595-1116-ND	9.57	7.26	6.34	PC-24-180
10	24 @ 450	12 @ 900	595-1117-ND	11.10	8.43	7.37	PC-24-450
24	24 @ 1000	12 @ 2000	595-1118-ND	15.46	11.72	10.23	PC-24-1000
4.4	28 @ 160	14 @ 320	595-1120-ND	9.47	7.37	6.32	PC-28-160
24	28 @ 800	14 @ 1600	595-1122-ND	15.46	11.72	10.23	PC-28-800
1.2	34 @ 35	17 @ 70	595-1123-ND	8.08	6.11	5.33	PC-34-35
4.4	34 @ 125	17 @ 250	595-1124-ND	9.57	7.26	6.34	PC-34-125
10	34 @ 300	17 @ 600	595-1125-ND	12.47	9.70	8.31	PC-34-300
24	34 @ 700	17 @ 1400	595-1126-ND	15.46	11.72	10.23	PC-34-700
1.2	40 @ 30	20 @ 60	595-1127-ND	8.08	6.11	5.33	PC-40-30
4.4	40 @ 110	20 @ 220	595-1129-ND	9.57	7.26	6.34	PC-40-110

Dual Primary 115V / 230V (8-Pin) — Type DPC

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
1.2	12.6 @ 100	6.3 @ 200	595-1131-ND	9.35	7.07	6.15	DPC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1132-ND	10.99	8.33	7.26	DPC-12-350
10	12.6 @ 800	6.3 @ 1600	595-1133-ND	12.99	9.83	8.57	DPC-12-800
24	12.6 @ 2000	6.3 @ 4000	595-1134-ND	16.95	12.83	11.19	DPC-12-2000
4.4	16 @ 260	8 @ 520	595-1136-ND	10.99	8.33	7.26	DPC-16-260
24	16 @ 1500	8 @ 3000	595-1138-ND	16.95	12.83	11.19	DPC-16-1500
4.4	20 @ 220	10 @ 440	595-1140-ND	10.99	8.33	7.26	DPC-20-220
10	20 @ 500	10 @ 1000	595-1141-ND	12.88	9.77	8.53	DPC-20-500
1.2	24 @ 50	12 @ 100	595-1143-ND	9.35	7.07	6.15	DPC-24-50
4.4	24 @ 180	12 @ 360	595-1144-ND	10.99	8.33	7.26	DPC-24-180
10	24 @ 450	12 @ 900	595-1145-ND	12.88	9.77	8.53	DPC-24-450
24	24 @ 1000	12 @ 2000	595-1146-ND	16.95	12.83	11.19	DPC-24-1000
24	28 @ 800	14 @ 1600	595-1150-ND	16.95	12.83	11.19	DPC-28-800
1.2	34 @ 35	17 @ 70	595-1151-ND	9.35	7.07	6.15	DPC-34-35
4.4	34 @ 125	17 @ 250	595-1152-ND	10.99	8.33	7.26	DPC-34-125
10	34 @ 300	17 @ 600	595-1153-ND	12.88	9.77	8.53	DPC-34-300
24	34 @ 700	17 @ 1400	595-1154-ND	16.95	12.83	11.19	DPC-34-700
4.4	40 @ 110	20 @ 220	595-1156-ND	10.99	8.33	7.26	DPC-40-110
10	40 @ 250	20 @ 500	595-1157-ND	12.88	9.77	8.53	DPC-40-250
24	40 @ 600	20 @ 1200	595-1158-ND	16.95	12.83	11.19	DPC-40-600

Signal Transformer

Split/Tran™ Low Power Transformers

Split Bobbin with High Isolation

Signal's ST and DST transformers use a split bobbin that provides superior islolation and low capacitive coupling.

Specifications: • Dielectric Strength: 2500VRMS Hipot **• Insulation:** Class B insulation (130°C)

Agency Standards: • UL 1446 (E66312) • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

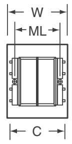

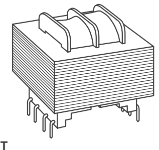

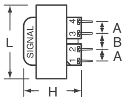

NOTE: Pins 2 & 3 omitted on single primary versions

TYPE ST
Single Primary
6 PIN

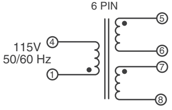

• Indicates like polarity

TYPE DST
Dual Primary
8 PIN

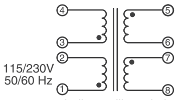

• Indicates like polarity

Size	VA	Dimensions – Inch (mm) L	 W	 H	 ML	 A	 B	 C	Optional Mtg. Screw & Nut	Weight lbs. (kg)
2	1.1	1.37 (34.9)	1.12 (28.6)	0.97 (24.6)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)	None	0.17 (0.08)
3	2.4	1.37 (34.9)	1.12 (28.6)	1.21 (30.8)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)		0.25 (0.11)
4	6	1.62 (41.3)	1.31 (33.3)	1.31 (33.3)	1.06 (26.9)	0.250 (6.4)	0.350 (8.9)	1.250 (32.5)	4-40 x 1.37 Nylon; (4-40 x 34.9mm)	0.44 (0.20)
5	12	1.91 (48.4)	1.59 (40.4)	1.45 (36.9)	1.25 (31.8)	0.300 (7.6)	0.400 (10.2)	1.410 (35.8)		0.70 (0.32)
6	20	2.25 (57.2)	1.88 (47.8)	1.45 (36.9)	1.50 (38.1)	0.300 (7.6)	0.400 (10.2)	1.600 (40.6)		0.80 (0.36)
7	36	2.62 (66.7)	2.18 (55.5)	1.59 (40.4)	†	0.400 (10.2)	0.400 (10.2)	1.850 (47.0)	†	1.1 (0.50)

† Size 7 has 4 mounting holes on 2.18 x 1.75 centers for a #6 screw. Need not be nylon.

Size	VA	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	 10	 25	Signal Transformer Part No.
				Single Primary 115V (6 Pin) — Type ST				
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1159-ND	8.53	6.44	5.61	ST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1160-ND	8.61	6.51	5.67	ST-3-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1162-ND	11.31	8.58	7.48	ST-5-12
6	20	12.6 @ 1.6	6.3 @ 3.2	595-1163-ND	13.75	10.47	9.15	ST-6-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1164-ND	8.53	6.44	5.61	ST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1165-ND	8.61	6.51	5.67	ST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1166-ND	9.96	7.54	6.58	ST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1167-ND	11.31	8.58	7.48	ST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1168-ND	13.75	10.47	9.15	ST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1169-ND	17.00	13.02	11.42	ST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1170-ND	8.53	6.44	5.61	ST-2-20
4	6	20 @ 0.3	10 @ 0.6	595-1172-ND	9.96	7.54	6.58	ST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1173-ND	11.31	8.58	7.48	ST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1174-ND	13.75	10.47	9.15	ST-6-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1176-ND	8.33	6.48	5.55	ST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1177-ND	8.61	6.51	5.67	ST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1178-ND	9.96	7.54	6.58	ST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1179-ND	11.31	8.58	7.48	ST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1180-ND	13.75	10.47	9.15	ST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1181-ND	17.00	13.02	11.42	ST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1182-ND	8.53	6.44	5.61	ST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1183-ND	8.61	6.51	5.67	ST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1184-ND	9.96	7.54	6.58	ST-4-28
6	20	28 @ 0.7	14 @ 1.4	595-1186-ND	13.75	10.47	9.15	ST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1187-ND	17.00	13.02	11.42	ST-7-28
3	2.4	36 @ 0.065	18 @ 0.13	595-1189-ND	8.61	6.51	5.67	ST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1190-ND	9.96	7.54	6.58	ST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1191-ND	11.31	8.58	7.48	ST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1192-ND	13.75	10.47	9.15	ST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1193-ND	17.00	13.02	11.42	ST-7-36

Size	VA	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	 10	 25	Signal Transformer Part No.
				Dual Primary 115V / 230V (8 Pin) — Type DST				
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1194-ND	9.91	7.48	6.50	DST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1195-ND	10.05	7.58	6.60	DST-3-12
4	6	12.6 @ 0.5	6.3 @ 1.0	595-1196-ND	10.96	8.30	7.23	DST-4-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1197-ND	12.63	9.56	8.34	DST-5-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1199-ND	9.91	7.48	6.50	DST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1200-ND	10.05	7.58	6.60	DST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1201-ND	10.96	8.30	7.23	DST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1202-ND	12.63	9.56	8.34	DST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1203-ND	15.58	11.84	10.34	DST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1204-ND	18.94	14.47	12.68	DST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1205-ND	9.91	7.48	6.50	DST-2-20
3	2.4	20 @ 0.12	10 @ 0.24	595-1206-ND	10.05	7.58	6.60	DST-3-20
4	6	20 @ 0.3	10 @ 0.6	595-1207-ND	10.96	8.30	7.23	DST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1208-ND	12.63	9.56	8.34	DST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1209-ND	15.58	11.84	10.34	DST-6-20
7	36	20 @ 1.8	10 @ 3.6	595-1210-ND	18.94	14.47	12.68	DST-7-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1211-ND	9.91	7.48	6.50	DST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1212-ND	10.05	7.58	6.60	DST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1213-ND	10.96	8.30	7.23	DST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1214-ND	12.63	9.56	8.34	DST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1215-ND	15.58	11.84	10.34	DST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1216-ND	18.94	14.47	12.68	DST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1217-ND	9.91	7.48	6.50	DST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1218-ND	10.05	7.58	6.60	DST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1219-ND	10.96	8.30	7.23	DST-4-28
5	12	28 @ 0.42	14 @ 0.84	595-1220-ND	12.63	9.56	8.34	DST-5-28
6	20	28 @ 0.7	14 @ 1.4	595-1221-ND	15.58	11.84	10.34	DST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1222-ND	18.94	14.47	12.68	DST-7-28
2	1.1	36 @ 0.03	18 @ 0.06	595-1223-ND	9.91	7.48	6.50	DST-2-36
3	2.4	36 @ 0.065	18 @ 0.13	595-1224-ND	10.05	7.58	6.60	DST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1225-ND	10.96	8.30	7.23	DST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1226-ND	12.63	9.56	8.34	DST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1227-ND	15.58	11.84	10.34	DST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1228-ND	18.94	14.47	12.68	DST-7-36

All-4-One™ International Transformers Chassis Mount

Specifications:
• Dielectric Strength: 4000VRMS Hipot **• Primaries:** Dual primaries (115/230V — 50/60Hz) **• Leakage:** Current meets UL 60601-1, IEC/EN 60601-1 **• Insulation:** Class F insulation (155°C) **• Flammability Rating:** Bobbin and shroud material meet UL 94V0

Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805 / EN 60950 (File #1448)

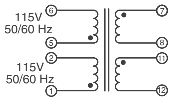

• Indicates like polarity

MOUNTING STYLE B
BOTTOM VIEW

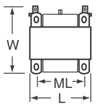

MOUNTING STYLE C
BOTTOM VIEW

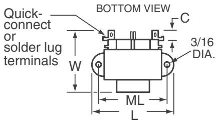

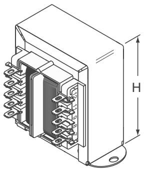

(Mounting Style C Shown)

VA Size	Mtg. Style	Dimensions – Inch (mm) L	 W	 H	 C	 ML	Terminals	Mtg. Screw	Wgt. lbs. (kg)
25	C	2.81 (71.4)	2.14 (54.4)	2.31 (58.7)	0.31 (7.9)	2.37 (60.3)	0.187 (4.75)	#6	1.25 (0.57)
43	C	3.12 (79.4)	2.14 (54.4)	2.68 (68.2)	0.31 (7.9)	2.81 (71.4)	0.187 (4.75)	#6	1.6 (0.73)
80	B	2.50 (63.5)	2.52 (64.3)	3.00 (76.2)	0.31 (7.9)	2.00 (50.8)	0.187 (4.75)	#6	2.8 (1.27)
130	B	2.81 (71.4)	3.00 (76.2)	3.37 (85.7)	0.37 (9.5)	2.25 (57.2)	0.25 (6.35)	#8	4.1 (1.86)
175	B	3.12 (79.4)	3.14 (79.7)	3.75 (95.3)	0.37 (9.5)	2.50 (63.5)	0.25 (6.35)	#8	5.5 (2.49)

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	 10	 25	Signal Transformer Part No.
43	12.6 @ 3.4	6.3 @ 6.8	595-1274-ND	22.17	16.88	14.76	A41-43-12
130	12.6 @ 10.3	6.3 @ 20.6	595-1276-ND	41.26	31.56	27.67	A41-130-12
25	16 @ 1.6	8 @ 3.2	595-1278-ND	17.00	12.89	11.25	A41-25-16
80	16 @ 5.0	8 @ 10.0	595-1280-ND	30.69	23.46	20.56	A41-80-16
130	16 @ 8.1	8 @ 16.2	595-1281-ND	41.16	31.48	27.61	A41-130-16
25	20 @ 1.25	10 @ 2.5	595-1283-ND	17.00	12.89	11.25	A41-25-20
130	20 @ 6.5	10 @ 13.0	595-1286-ND	41.26	31.56	27.67	A41-130-20
25	24 @ 1.0	12 @ 2.0	595-1288-ND	17.00	12.89	11.25	A41-25-24
43	24 @ 1.8	12 @ 3.6	595-1289-ND	22.17	16.88	14.76	A41-43-24
80	24 @ 3.3	12 @ 6.6	595-1290-ND	30.69	23.46	20.56	A41-80-24
130	24 @ 5.4	12 @ 10.8	595-1291-ND	41.26	31.56	27.67	A41-130-24
175	24 @ 7.3	12 @ 14.6	595-1292-ND	48.15	37.01	32.55	A41-175-24

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	 10	 25	Signal Transformer Part No.
80	28 @ 2.8	14 @ 5.6	595-1295-ND	30.69	23.46	20.56	A41-80-28
130	28 @ 4.6	14 @ 9.2	595-1296-ND	41.26	31.56	27.67	A41-130-28
175	28 @ 6.25	14 @ 12.5	595-1297-ND	48.15	37.01	32.55	A41-175-28
43	36 @ 1.2	18 @ 2.4	595-1299-ND	22.17	16.88	14.76	A41-43-36
80	36 @ 2.2	18 @ 4.4	595-1300-ND	30.69	23.46	20.56	A41-80-36
175	36 @ 4.8	18 @ 9.6	595-1302-ND	48.15	37.01	32.55	A41-175-36
25	230 @ 0.11	115 @ 0.22	595-1303-ND	17.00	12.89	11.25	A41-25-230
43	230 @ 0.19	115 @ 0.38	595-1304-ND	22.17	16.88	14.76	A41-43-230
80	230 @ 0.35	115 @ 0.7	595-1305-ND	30.69	23.46	20.56	A41-80-230
130	230 @ 0.57	115 @ 1.14	595-1306-ND	41.26	31.56	27.67	A41-130-230
175	230 @ 0.76	115 @ 1.52	595-1307-ND	48.15	37.01	32.55	A41-175-230

Plug-In Power Modules

Isolated DC-DC Converters

Features:

- State-of-the-art in board-mounted converters
- High frequency technology with surface mount construction forms high efficiency with unparalleled flexibility
- Designed for telecommunications, industrial, computer and other distributed power applications that require input-to-output isolation
- Very few, if any external components required to make these converters perform
- Makes design-in a snap, saving valuable board space during TI/Plug in Power Solutions package designs
- Plug-in power solutions are designed to work from industry-standard DC bus voltages
- The Output Current of the converter should match the maximum current need of your application
- Choose an adjustable or fixed Output Voltage that meets your requirements
- Vertical mounting uses the smallest footprint and surface mount and horizontal through-hole are available in most product series

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)				Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2	Output #3	Output #4					1	25	100	
Multiple Output												
38.0 ~ 75.0	5.0 @ 1.2	-5.0 @ 1.2	—	—	6.0	TH	Horizontal	PT4311A-ND	36.72	31.22	28.92	PT4311A
38.0 ~ 75.0	5.0 @ 1.2	-5.0 @ 1.2	—	—	6.0	SMT	Horizontal	296-19982-ND◆	36.72	31.22	28.92	PT4311C
38.0 ~ 75.0	12.0 @ 0.5	-12.0 @ 0.5	—	—	6.0	SMT	Horizontal	296-19983-ND◆	36.72	31.22	28.92	PT4313C
38.0 ~ 75.0	24.0 @ 0.25	-24.0 @ 0.25	—	—	6.0	TH	Horizontal	296-19984-ND◆	36.72	31.22	28.92	PT4314A
38.0 ~ 75.0	24.0 @ 0.25	-24.0 @ 0.25	—	—	6.0	SMT	Horizontal	296-19985-ND◆	36.72	31.22	28.92	PT4314C
36.0 ~ 75.0	±8.0 @ 1.25	±8.0 @ 1.25	±3.75 @ 1.75	±3.75 @ 1.75	35.0	SMT	Horizontal	296-20026-ND◆	121.47	109.52	105.94	PT4701C
36.0 ~ 75.0	±8.0 @ 1.25	±8.0 @ 1.25	±3.75 @ 1.75	±3.75 @ 1.75	35.0	TH	Vertical	296-20027-ND◆	121.47	109.52	105.94	PT4701N
36.0 ~ 75.0	15.0 @ 1.25	3.3 @ 3.0	1.5 @ 2.0	—	25.0	SMT	Horizontal	296-20028-ND◆	74.68	66.76	63.37	PT4801C
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.5 @ 6.0	—	35.0	SMT	Horizontal	296-20030-ND◆	125.74	113.37	109.66	PT4821C
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	—	35.0	TH	Horizontal	296-20032-ND◆	125.74	113.37	109.66	PT4822A
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	—	35.0	SMT	Horizontal	296-20033-ND◆	125.74	113.37	109.66	PT4822C
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	—	35.0	TH	Vertical	296-20034-ND◆	125.74	113.37	109.66	PT4822N
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.2 @ 6.0	—	35.0	SMT	Horizontal	296-20036-ND◆	125.74	113.37	109.66	PT4823C
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.2 @ 6.0	—	35.0	TH	Vertical	296-20037-ND◆	125.74	113.37	109.66	PT4823N
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.2 @ 6.0	—	35.0	TH	Horizontal	296-20038-ND◆	125.74	113.37	109.66	PT4824A
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.2 @ 6.0	—	35.0	TH	Vertical	296-20040-ND◆	125.74	113.37	109.66	PT4824N
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	—	35.0	TH	Horizontal	296-20041-ND◆	125.74	113.37	109.66	PT4825A
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	—	35.0	SMT	Horizontal	296-20042-ND◆	125.74	113.37	109.66	PT4825C
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	—	35.0	TH	Vertical	296-20043-ND◆	125.74	113.37	109.66	PT4825N
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.8 @ 5.5	—	35.0	TH	Horizontal	296-20044-ND◆	125.74	113.37	109.66	PT4826A
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.8 @ 5.5	—	35.0	SMT	Horizontal	296-20045-ND◆	125.74	113.37	109.66	PT4826C
36.0 ~ 75.0	5.0 @ 5.0	2.5 @ 5.5	1.5 @ 5.5	—	35.0	TH	Horizontal	296-20048-ND◆	125.74	113.37	109.66	PT4828A
36.0 ~ 75.0	5.0 @ 5.0	2.5 @ 5.5	1.5 @ 5.5	—	35.0	SMT	Horizontal	296-20049-ND◆	125.74	113.37	109.66	PT4828C
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	—	35.0	TH	Horizontal	296-20051-ND◆	125.74	113.37	109.66	PT4829A
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	—	35.0	SMT	Horizontal	296-20052-ND◆	125.74	113.37	109.66	PT4829C
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	—	35.0	TH	Vertical	296-20053-ND◆	125.74	113.37	109.66	PT4829N
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.5 @ 5.5	—	35.0	SMT	Horizontal	296-20055-ND◆	125.74	113.37	109.66	PT4831C
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.5 @ 5.5	—	35.0	TH	Vertical	296-20056-ND◆	125.74	113.37	109.66	PT4831N
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	—	35.0	TH	Horizontal	296-20060-ND◆	125.74	113.37	109.66	PT4833A
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	—	35.0	SMT	Horizontal	296-20061-ND◆	125.74	113.37	109.66	PT4833C
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	—	35.0	TH	Vertical	296-20062-ND◆	125.74	113.37	109.66	PT4833N
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	—	49.5	TH	Horizontal	296-20063-ND◆	150.86	138.38	135.26	PT4851A
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	—	49.5	SMT	Horizontal	296-20064-ND◆	150.86	138.38	135.26	PT4851C
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	—	49.5	TH	Vertical	296-20065-ND◆	150.86	138.38	135.26	PT4851N
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.5 @ 10.0	—	49.5	TH	Horizontal	296-20066-ND◆	178.10	163.37	159.68	PT4852A
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.2 @ 10.0	—	49.5	SMT	Horizontal	296-20070-ND◆	178.10	163.37	159.68	PT4853C
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.2 @ 10.0	—	49.5	TH	Vertical	296-20071-ND◆	178.10	163.37	159.68	PT4853N
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	—	49.5	TH	Horizontal	296-20072-ND◆	178.10	163.37	159.68	PT4854A
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	—	49.5	SMT	Horizontal	296-20073-ND◆	178.10	163.37	159.68	PT4854C
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	—	49.5	TH	Vertical	296-20074-ND◆	178.10	163.37	159.68	PT4854N
36.0 ~ 75.0	3.3 @ 15.0	1.5 @ 10.0	1.2 @ 10.0	—	49.5	SMT	Horizontal	296-20076-ND◆	178.10	163.37	159.68	PT4855C
36.0 ~ 75.0	5.0 @ 10.0	3.3 @ 10.0	1.5 @ 10.0	—	50.0	SMT	Horizontal	296-20078-ND◆	178.10	163.37	159.68	PT4856C
36.0 ~ 75.0	5.0 @ 10.0	3.3 @ 10.0	1.5 @ 10.0	—	50.0	TH	Vertical	296-20079-ND◆	178.10	163.37	159.68	PT4856N
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 7.0	—	—	28.0	TH	Horizontal	296-20306-ND◆	70.95	63.43	60.20	PTB48500AAH
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	—	32.4	TH	Horizontal	296-20309-ND◆	74.25	66.38	63.00	PTB48501AAH
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	—	32.4	SMT	Horizontal	296-20310-ND	74.25	66.38	63.00	PTB48501AAS
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	—	32.4	SMT	Horizontal	296-20311-ND◆	74.25	66.38	63.00	PTB48501AAZ
36.0 ~ 75.0	3.3 @ 10.0	1.2 @ 13.0	—	—	45.0	TH	Horizontal	296-20312-ND◆	80.85	72.28	68.60	PTB48502AAH
36.0 ~ 75.0	3.3 @ 10.0	1.2 @ 13.0	—	—	45.0	SMT	Horizontal	296-20313-ND◆	80.85	72.28	68.60	PTB48502AAZ
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	TH	Horizontal	296-20314-ND◆	64.60	57.00	54.15	PTB48510AAH
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	SMT	Horizontal	296-20315-ND◆	64.60	57.00	54.15	PTB48510AAS
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	SMT	Horizontal	296-20316-ND◆	64.60	57.00	54.15	PTB48510AAZ
36.0 ~ 75.0	12.0 @ 3.0	-12.0 @ 3.0	—	—	72.0	SMT	Horizontal	296-20317-ND◆	64.60	57.00	54.15	PTB48510BAZ
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	—	66.0	TH	Horizontal	296-20318-ND◆	64.60	57.00	54.15	PTB48510CAH
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	—	66.0	SMT	Horizontal	296-20319-ND	64.60	57.00	54.15	PTB48510CAS
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	—	66.0	SMT	Horizontal	296-20320-ND◆	64.60	57.00	54.15	PTB48510CAZ
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	TH	Horizontal	296-20321-ND◆	64.60	57.00	54.15	PTB48511AAH
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	SMT	Horizontal	296-20322-ND	64.60	57.00	54.15	PTB48511AAS
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	—	65.0	SMT	Horizontal	296-20323-ND◆	64.60	57.00	54.15	PTB48511AAZ
36.0 ~ 75.0	12.0 @ 3.0	-12.0 @ 3.0	—	—	72.0	SMT	Horizontal	296-20324-ND◆	78.38	70.07	66.50	PTB48511BAZ
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	—	30.0	TH	Horizontal	296-20347-ND	51.00	45.00	42.75	PTB48580AAH
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	—	30.0	SMT	Horizontal	296-20348-ND	51.00	45.00	42.75	PTB48580AAS
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	—	30.0	SMT	Horizontal	296-20349-ND◆	51.00	45.00	42.75	PTB48580AAZ
36.0 ~ 75.0	12.0 @ 1.25	-12.0@ 1.25	—	—	30.0	TH	Horizontal	296-20350-ND	51.00	45.00	42.75	PTB48580BAH
36.0 ~ 75.0	12.0 @ 1.25	-12.0 @ 1.25	—	—	30.0	SMT	Horizontal	296-20351-ND	51.00	45.00	42.75	PTB48580BAS
36.0 ~ 75.0	12.0 @ 1.25	-12.0 @ 1.25	—	—	30.0	SMT	Horizontal	296-20352-ND◆	51.00	45.00	42.75	PTB48580BAZ
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	—	85.0	TH	Horizontal	296-20984-ND◆	84.00	74.82	70.88	PTB48600AAH
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	—	85.0	SMT	Horizontal	296-20353-ND	84.00	74.82	70.88	PTB48600AAS
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	—	85.0	SMT	Horizontal	296-20354-ND◆	84.00	74.82	70.88	PTB48600AAZ

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
Single Output									
36.0 ~ 75.0	1.4 @ 16.0	22.4	TH	Vertical	296-19957-ND◆	86.22	76.80	72.76	PT3405N
36.0 ~ 75.0	1.2 @ 16.0	19.2	TH	Horizontal	296-19958-ND◆	86.22	76.80	72.76	PT3406A
36.0 ~ 75.0	1.2 @ 16.0	19.2	TH	Vertical	296-19959-ND◆	86.22	76.80	72.76	PT3406N
36.0 ~ 75.0	5.0 @ 4.0	20.0	TH	Horizontal	PT4122A-ND◆	55.17	48.68	46.25	PT4122A
36.0 ~ 75.0	15.0 @ 1.3	19.5	TH	Horizontal	296-19960-ND◆	55.17	48.68	46.25	PT4124A
36.0 ~ 75.0	1.5 @ 5.0	7.5	SMT	Horizontal	296-19961-ND◆	55.17	48.68	46.25	PT4126C
18.0 ~ 40.0	3.3 @ 5.0	16.5	TH	Horizontal	PT4141A-ND◆	55.17	48.68	46.25	PT4141A
18.0 ~ 40.0	3.3 @ 5.0	16.5	SMT	Horizontal	296-19962-ND◆	55.17	48.68	46.25	PT4141C
18.0 ~ 40.0	5.0 @ 4.0	20.0	TH	Horizontal	PT4142A-ND◆	55.17	48.68	46.25	PT4142A
18.0 ~ 40.0	5.0 @ 4.0	20.0	SMT	Horizontal	PT4142C-ND◆	55.17	48.68	46.25	PT4142C
18.0 ~ 40.0	1.5 @ 5.0	7.5	TH	Horizontal	296-19963-ND◆	55.17	48.68	46.25	PT4146A

† 2 Outputs ◆ ***RoHS Compliant***

(Continued)

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
38.0 ~ 75.0	3.3 @ 1.5	5.0	SMT	Horizontal	296-19964-ND◆	37.50	31.88	29.54	PT4212C
38.0 ~ 75.0	12.0 @ 0.6	7.2	TH	Horizontal	296-19965-ND◆	37.50	31.88	29.54	PT4214A
38.0 ~ 75.0	12.0 @ 0.6	7.2	SMT	Horizontal	296-19966-ND◆	37.50	31.88	29.54	PT4214C
36.0 ~ 75.0	1.8 @ 3.0	5.4	TH	Horizontal	296-19967-ND◆	52.53	46.35	44.04	PT4221A
36.0 ~ 75.0	3.3 @ 3.0	9.9	TH	Horizontal	296-19968-ND◆	52.53	46.35	44.04	PT4222A
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMT	Horizontal	296-19969-ND◆	52.53	46.35	44.04	PT4222C
36.0 ~ 75.0	5.0 @ 2.0	10.0	TH	Horizontal	296-19970-ND◆	52.53	46.35	44.04	PT4223A
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-19971-ND◆	52.53	46.35	44.04	PT4223C
36.0 ~ 75.0	12.0 @ 0.85	10.2	TH	Horizontal	296-19972-ND◆	52.53	46.35	44.04	PT4224A
36.0 ~ 75.0	12.0 @ 0.85	10.2	TH	Vertical	296-19973-ND◆	52.53	46.35	44.04	PT4224N
36.0 ~ 75.0	1.2 ~ 1.3 @ 3.0	3.9	TH	Horizontal	296-19974-ND◆	65.71	57.98	55.08	PT4227A
18.0 ~ 36.0	3.3 @ 3.0	9.9	TH	Horizontal	296-19975-ND	52.53	46.35	44.04	PT4242A
18.0 ~ 36.0	5.0 @ 2.0	10.0	TH	Horizontal	PT4243A-ND	52.53	46.35	44.04	PT4243A
18.0 ~ 36.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-19976-ND	52.53	46.35	44.04	PT4243C
18.0 ~ 36.0	5.0 @ 2.0	10.0	TH	Vertical	296-19977-ND	52.53	46.35	44.04	PT4243N
18.0 ~ 36.0	12.0 @ 0.85	10.2	TH	Horizontal	296-19978-ND	52.53	46.35	44.04	PT4244A
18.0 ~ 36.0	12.0 @ 0.85	10.2	SMT	Horizontal	296-19979-ND◆	52.53	46.35	44.04	PT4244C
18.0 ~ 36.0	12.0 @ 0.85	10.2	TH	Vertical	296-19980-ND◆	52.53	46.35	44.04	PT4244N
18.0 ~ 36.0	1.2 ~ 1.3 @ 3.0	3.9	TH	Horizontal	296-19981-ND◆	65.71	57.98	55.08	PT4247A
36.0 ~ 75.0	1.3 ~ 3.5 @ 30.0	105.0	SMT	Horizontal	296-19987-ND◆	136.05	122.67	118.65	PT4411C
36.0 ~ 75.0	1.3 ~ 3.5 @ 30.0	105.0	TH	Vertical	296-19988-ND◆	136.05	122.67	118.65	PT4411N
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	TH	Horizontal	296-19989-ND◆	136.05	122.67	118.65	PT4412A
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	SMT	Horizontal	296-19990-ND	136.05	122.67	118.65	PT4412C
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	TH	Vertical	296-19991-ND◆	136.05	122.67	118.65	PT4412N
36.0 ~ 75.0	3.4 ~ 5.7 @ 20.0	114.0	SMT	Horizontal	296-19993-ND◆	136.05	122.67	118.65	PT4413C
18.0 ~ 40.0	3.3 @ 5.0	16.5	TH	Horizontal	296-19995-ND	80.11	71.62	67.97	PT4501A
18.0 ~ 40.0	3.3 @ 5.0	16.5	TH	Vertical	296-19996-ND	80.11	71.62	67.97	PT4501N
18.0 ~ 40.0	5.0 @ 4.0	20.0	TH	Horizontal	296-19997-ND	80.11	71.62	67.97	PT4502A
18.0 ~ 40.0	5.0 @ 4.0	20.0	SMT	Horizontal	296-19998-ND◆	80.11	71.62	67.97	PT4502C
18.0 ~ 40.0	5.0 @ 4.0	20.0	TH	Vertical	296-19999-ND◆	80.11	71.62	67.97	PT4502N
18.0 ~ 40.0	12.0 @ 1.6	19.2	TH	Horizontal	296-20000-ND◆	80.11	71.62	67.97	PT4503A
18.0 ~ 40.0	15.0 @ 1.3	19.5	TH	Horizontal	296-20001-ND◆	80.11	71.62	67.97	PT4504A
18.0 ~ 40.0	1.5 @ 5.0	7.5	TH	Horizontal	296-20002-ND	80.11	71.62	67.97	PT4506A
18.0 ~ 40.0	1.8 @ 5.0	9.0	TH	Horizontal	296-20003-ND	80.11	71.62	67.97	PT4507A
18.0 ~ 40.0	2.5 @ 5.0	12.5	TH	Horizontal	296-20005-ND	80.11	71.62	67.97	PT4508A
18.0 ~ 40.0	2.5 @ 5.0	12.5	TH	Vertical	296-20006-ND	80.11	71.62	67.97	PT4508N
18.0 ~ 40.0	1.2 @ 5.0	6.0	TH	Horizontal	296-20007-ND	89.76	79.95	75.74	PT4509A
36.0 ~ 75.0	3.3 @ 5.0	16.5	TH	Horizontal	296-20008-ND	68.10	60.88	57.78	PT4521A
36.0 ~ 75.0	5.0 @ 4.0	20.0	TH	Horizontal	296-20009-ND	68.10	60.88	57.78	PT4522A
36.0 ~ 75.0	5.0 @ 4.0	20.0	SMT	Horizontal	296-20010-ND	68.10	60.88	57.78	PT4522C
36.0 ~ 75.0	5.0 @ 4.0	20.0	TH	Vertical	296-20011-ND◆	68.10	60.88	57.78	PT4522N
36.0 ~ 75.0	12.0 @ 1.6	19.2	TH	Horizontal	296-20012-ND	68.10	60.88	57.78	PT4523A
36.0 ~ 75.0	12.0 @ 1.6	19.2	SMT	Horizontal	296-20013-ND◆	68.10	60.88	57.78	PT4523C
36.0 ~ 75.0	15.0 @ 1.3	19.5	TH	Horizontal	296-20014-ND◆	68.10	60.88	57.78	PT4524A
36.0 ~ 75.0	1.2 @ 5.0	6.0	TH	Horizontal	296-20015-ND◆	68.10	60.88	57.78	PT4529A
36.0 ~ 75.0	3.3 @ 8.0	26.4	TH	Horizontal	296-20016-ND◆	92.16	82.08	77.76	PT4561A
36.0 ~ 75.0	5.0 @ 6.0	30.0	TH	Horizontal	296-20017-ND◆	92.16	82.08	77.76	PT4562A
36.0 ~ 75.0	15.0 @ 2.0	30.0	TH	Vertical	296-20018-ND◆	92.16	82.08	77.76	PT4564N
36.0 ~ 75.0	2.5 @ 8.0	20.0	SMT	Horizontal	296-20019-ND◆	92.16	82.08	77.76	PT4566C
18.0 ~ 60.0	3.3 @ 8.0	26.4	SMT	Horizontal	296-20020-ND◆	92.16	82.08	77.76	PT4581C
18.0 ~ 60.0	3.3 @ 8.0	26.4	TH	Vertical	296-20021-ND◆	92.16	82.08	77.76	PT4581N
18.0 ~ 60.0	5.0 @ 6.0	30.0	TH	Horizontal	PT4582A-ND◆	92.16	82.08	77.76	PT4582A
18.0 ~ 60.0	5.0 @ 6.0	30.0	TH	Vertical	296-20022-ND	92.16	82.08	77.76	PT4582N
18.0 ~ 60.0	1.8 @ 8.0	14.4	SMT	Horizontal	296-20024-ND◆	92.16	82.08	77.76	PT4585C
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	TH	Horizontal	296-20325-ND	99.20	88.35	83.70	PTB48520WAH
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	SMT	Horizontal	296-20326-ND◆	99.20	88.35	83.70	PTB48520WAS
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	SMT	Horizontal	296-20327-ND◆	99.20	88.35	83.70	PTB48520WAZ
36.0 ~ 57.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-20331-ND◆	48.10	41.60	39.00	PTB48540AAZ
36.0 ~ 57.0	3.3 @ 3.0	10.0	TH	Horizontal	296-20332-ND◆	35.90	—	—	PTB48540BAH
36.0 ~ 57.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-20334-ND◆	48.10	41.60	39.00	PTB48540BAZ
36.0 ~ 57.0	12.0 @ 0.85	10.0	TH	Horizontal	296-20335-ND◆	35.90	—	—	PTB48540CAH
36.0 ~ 57.0	12.0 @ 0.85	10.0	SMT	Horizontal	296-20337-ND◆	48.10	41.60	39.00	PTB48540CAZ
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	TH	Horizontal	296-20338-ND	53.13	46.88	44.54	PTB48560AAH
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	SMT	Horizontal	296-20339-ND	53.13	46.88	44.54	PTB48560AAS
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	SMT	Horizontal	296-20340-ND◆	53.13	46.88	44.54	PTB48560AAZ
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	TH	Horizontal	296-20341-ND	53.13	46.88	44.54	PTB48560BAH
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	SMT	Horizontal	296-20342-ND	53.13	46.88	44.54	PTB48560BAS
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	SMT	Horizontal	296-20343-ND◆	53.13	46.88	44.54	PTB48560BAZ
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	TH	Horizontal	296-20344-ND	53.13	46.88	44.54	PTB48560CAH
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	SMT	Horizontal	296-20345-ND	53.13	46.88	44.54	PTB48560CAS
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	SMT	Horizontal	296-20346-ND◆	53.13	46.88	44.54	PTB48560CAZ
18.0 ~ 60.0	1.8 ~ 3.6 @ 20.0	72.0	TH	Horizontal	296-20355-ND	118.19	106.57	103.08	PTB78520WAH
18.0 ~ 60.0	1.8 ~ 3.6 @ 20.0	72.0	SMT	Horizontal	296-20356-ND	118.19	106.57	103.08	PTB78520WAS
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	TH	Horizontal	296-20357-ND	53.13	46.88	44.54	PTB78560AAH
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	SMT	Horizontal	296-20358-ND	53.13	46.88	44.54	PTB78560AAS
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	SMT	Horizontal	296-20359-ND◆	53.13	46.88	44.54	PTB78560AAZ
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	TH	Horizontal	296-20360-ND	53.13	46.88	44.54	PTB78560BAH
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	SMT	Horizontal	296-20361-ND	53.13	46.88	44.54	PTB78560BAS
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	SMT	Horizontal	296-20362-ND◆	53.13	46.88	44.54	PTB78560BAZ
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	TH	Horizontal	296-20363-ND◆	53.13	46.88	44.54	PTB78560CAH
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	SMT	Horizontal	296-20364-ND	53.13	46.88	44.54	PTB78560CAS
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	SMT	Horizontal	296-20365-ND◆	53.13	46.88	44.54	PTB78560CAZ
35.0 ~ 75.0	12.0 @ 4.2	50.0	TH	Horizontal	296-21399-ND◆	46.58	40.29	37.77	PTEA404120N2AD
35.0 ~ 75.0	12.0 @ 4.2	50.0	TH	Horizontal	296-21400-ND◆	46.58	40.29	37.77	PTEA404120P2AD
36.0 ~ 75.0	2.5 @ 20.0	50.0	TH	Horizontal	296-22971-ND	46.58	40.29	37.77	PTEA420025N2AD
36.0 ~ 75.0	2.5 @ 20.0	50.0	TH	Horizontal	296-24182-ND◆	46.58	40.29	37.77	PTEA420025P2AD
36.0 ~ 75.0	3.3 @ 20.0	66.0	TH	Horizontal	296-22972-ND	46.58	40.29	37.77	PTEA420033N2AD
36.0 ~ 75.0	3.3 @ 20.0	66.0	TH	Horizontal	296-24183-ND	46.58	40.29	37.77	PTEA420033P2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21462-ND◆	26.60	22.61	20.95	PTMA401120A1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21463-ND◆	26.60	22.61	20.95	PTMA401120A1AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21464-ND◆	27.56	23.43	21.71	PTMA401120A2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21465-ND◆	27.56	23.43	21.71	PTMA401120A2AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21466-ND◆	28.50	24.23	22.45	PTMA401120A3AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21467-ND◆	28.50	24.23	22.45	PTMA401120A3AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21468-ND◆	27.56	23.43	21.71	PTMA401120N1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21469-ND◆	27.56	23.43	21.71	PTMA401120N1AZ

† 2 Outputs ◆ ***RoHS Compliant***

(Continued)

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-19774-ND◆	28.50	24.23	22.45	PTMA401120N2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-19775-ND	28.50	24.23	22.45	PTMA401120N2AS
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21470-ND◆	28.50	24.23	22.45	PTMA401120N2AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21471-ND◆	27.56	23.43	21.71	PTMA401120P1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21472-ND◆	27.56	23.43	21.71	PTMA401120P1AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	TH	Horizontal	296-21473-ND◆	28.50	24.23	22.45	PTMA401120P2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMT	Horizontal	296-21474-ND◆	28.50	24.23	22.45	PTMA401120P2AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-21475-ND◆	26.60	22.61	20.95	PTMA402050A1AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	TH	Horizontal	296-21476-ND◆	27.56	23.43	21.71	PTMA402050A3AD
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-21477-ND◆	27.56	23.43	21.71	PTMA402050A3AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	TH	Horizontal	296-20492-ND◆	28.50	24.23	22.45	PTMA402050N2AD
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-20493-ND	28.50	24.23	22.45	PTMA402050N2AS
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMT	Horizontal	296-24290-ND◆	28.50	24.23	22.45	PTMA402050N2AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	TH	Horizontal	296-21478-ND◆	28.50	24.23	22.45	PTMA402050P2AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21479-ND◆	26.60	22.61	20.95	PTMA403033A1AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21480-ND◆	26.60	22.61	20.95	PTMA403033A1AZ
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21481-ND◆	27.56	23.43	21.71	PTMA403033A2AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21482-ND◆	27.56	23.43	21.71	PTMA403033A2AZ
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21483-ND◆	27.56	23.43	21.71	PTMA403033A3AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21484-ND◆	27.56	23.43	21.71	PTMA403033A3AZ
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21485-ND◆	27.56	23.43	21.71	PTMA403033N1AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21486-ND◆	27.56	23.43	21.71	PTMA403033N1AZ
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-20494-ND◆	28.50	24.23	22.45	PTMA403033N2AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-20495-ND	28.50	24.23	22.45	PTMA403033N2AS
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21487-ND◆	28.50	24.23	22.45	PTMA403033N2AZ
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21488-ND◆	27.56	23.43	21.71	PTMA403033P1AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	TH	Horizontal	296-21489-ND◆	28.50	24.23	22.45	PTMA403033P2AD
36.0 ~ 75.0	3.3 @ 3.0	10.0	SMT	Horizontal	296-21490-ND◆	28.50	24.23	22.45	PTMA403033P2AZ
36.0 ~ 75.0	5.0 @ 20.0	100.0	TH	Horizontal	296-21541-ND	56.53	49.88	47.39	PTQA420050N2AD
36.0 ~ 75.0	5.0 @ 20.0	100.0	SMT	Horizontal	296-24196-ND	56.53	49.88	47.39	PTQA420050N2AS
36.0 ~ 75.0	5.0 @ 20.0	100.0	SMT	Horizontal	296-24197-ND	56.53	49.88	47.39	PTQA420050N2AZ
36.0 ~ 75.0	5.0 @ 20.0	100.0	TH	Horizontal	296-21542-ND	56.53	49.88	47.39	PTQA420050P2AD
36.0 ~ 75.0	5.0 @ 20.0	100.0	SMT	Horizontal	296-24307-ND	56.53	49.88	47.39	PTQA420050P2AS
36.0 ~ 75.0	5.0 @ 20.0	100.0	SMT	Horizontal	296-24198-ND	56.53	49.88	47.39	PTQA420050P2AZ
36.0 ~ 75.0	2.5 @ 30.0	75.0	TH	Horizontal	296-19776-ND	56.53	49.88	47.39	PTQA430025N2AD
36.0 ~ 75.0	2.5 @ 30.0	75.0	TH	Horizontal	296-19777-ND	56.53	49.88	47.39	PTQA430025P2AD
36.0 ~ 75.0	3.3 @ 30.0	100.0	TH	Horizontal	296-19778-ND	56.53	49.88	47.39	PTQA430033N2AD
36.0 ~ 75.0	3.3 @ 30.0	100.0	TH	Horizontal	296-19779-ND	56.53	49.88	47.39	PTQA430033P2AD
36.0 ~ 75.0	8.0 @ 25.0	200.0	TH	Horizontal	296-21407-ND◆	70.54	63.06	59.85	PTQB425080N2AD
36.0 ~ 75.0	8.0 @ 25.0	200.0	TH	Horizontal	296-21408-ND◆	70.54	63.06	59.85	PTQB425080N3AD
1W Miniature — RoHS Compliant									
4.5 ~ 5.5	±5.0 @ 0.1	1.0	TH	Vertical	296-20637-ND†	10.10	8.29	7.48	DCH010505DN7
4.5 ~ 5.5	5.0 @ 0.2	1.0	TH	Vertical	296-20638-ND	10.10	8.29	7.48	DCH010505SN7
4.5 ~ 5.5	±12.0 @ 0.042	1.0	TH	Vertical	296-20639-ND†	10.10	8.29	7.48	DCH010512DN7
4.5 ~ 5.5	12.0 @ 0.083	1.0	TH	Vertical	296-20640-ND	10.10	8.29	7.48	DCH010512SN7
4.5 ~ 5.5	±15.0 @ 0.033	1.0	TH	Vertical	296-20641-ND†	10.10	8.29	7.48	DCH010515DN7
4.5 ~ 5.5	15.0 @ 0.067	1.0	TH	Vertical	296-20642-ND	10.10	8.29	7.48	DCH010515SN7

† 2 Outputs ◆ ***RoHS Compliant***

Non-Isolated POL

Features: • Easy to use, just plug them in • The industries smallest, most efficient and easy to use Integrated Switching Regulators (ISRs) • Uses unique, proprietary design, which employs 1 MHz of switching technology to produce state-of-the-art power densities, allowing the user to select the product performance that exactly matches the application • Only one, if any external component is required • Plug-in power solutions are designed to work from industry-standard DC bus voltages • The Output Current of the converter should match the maximum current need of your application • Choose an adjustable or fixed Output Voltage that meets your requirements • Vertical mounting uses the smallest footprint and surface mount and horizontal through-hole are available in most product series

TurboTrans™ Additional Features: • Optimizes the transient response of the regulator, while simultaneously reducing the quantity of external output capacitors required to meet a target voltage deviation specification • Can be used for target output capacitor bank, to significantly improve the regulator's transient response by reducing the peak voltage deviation

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
T2 TurboTrans™ Modules										
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	TH	Horizontal	296-21401-ND◆	23.94	20.35	18.86	PTH04T220WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	SMT	Horizontal	296-21402-ND	23.94	20.35	18.86	PTH04T220WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	SMT	Horizontal	296-21403-ND◆	23.94	20.35	18.86	PTH04T220WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	TH	Horizontal	296-21787-ND	23.94	20.35	18.86	PTH04T221WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	SMT	Horizontal	296-21788-ND	23.94	20.35	18.86	PTH04T221WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	—	57.6	SMT	Horizontal	296-21789-ND	23.94	20.35	18.86	PTH04T221WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	TH	Horizontal	296-21310-ND◆	16.52	13.90	12.77	PTH04T230WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-21311-ND	16.52	13.90	12.77	PTH04T230WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-21312-ND◆	16.52	13.90	12.77	PTH04T230WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	TH	Horizontal	296-21790-ND◆	16.52	13.90	12.77	PTH04T231WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-21791-ND	16.52	13.90	12.77	PTH04T231WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-21792-ND◆	16.52	13.90	12.77	PTH04T231WAZ
2.2 ~ 5.5	0.69 ~ 2.0 @ 10.0	—	20.0	TH	Horizontal	296-24048-ND	20.52	17.45	16.16	PTH04T240FAD
2.2 ~ 5.5	0.69 ~ 2.0 @ 10.0	—	20.0	SMT	Horizontal	296-24049-ND	20.52	17.45	16.16	PTH04T240FAS
2.2 ~ 5.5	0.69 ~ 2.0 @ 10.0	—	20.0	SMT	Horizontal	296-24050-ND	20.52	17.45	16.16	PTH04T240FAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	TH	Horizontal	296-21793-ND◆	20.52	17.45	16.16	PTH04T240WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-21794-ND	20.52	17.45	16.16	PTH04T240WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-21242-ND◆	20.52	17.45	16.16	PTH04T240WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	TH	Horizontal	296-21704-ND◆	20.52	17.45	16.16	PTH04T241WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-21705-ND	20.52	17.45	16.16	PTH04T241WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-21706-ND◆	20.52	17.45	16.16	PTH04T241WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	TH	Horizontal	296-21797-ND◆	13.75	11.57	10.63	PTH04T260WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-21319-ND	13.75	11.57	10.63	PTH04T260WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-21798-ND◆	13.75	11.57	10.63	PTH04T260WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	TH	Horizontal	296-21799-ND◆	13.75	11.57	10.63	PTH04T261WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-21800-ND	13.75	11.57	10.63	PTH04T261WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-21801-ND◆	13.75	11.57	10.63	PTH04T261WAZ
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	—	108.0	TH	Horizontal	296-20425-ND◆	39.55	34.21	32.07	PTH05T210WAD
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	—	108.0	TH	Horizontal	296-20426-ND	39.55	34.21	32.07	PTH05T210WAH
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	—	108.0	SMT	Horizontal	296-20427-ND	39.55	34.21	32.07	PTH05T210WAS
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	—	108.0	SMT	Horizontal	296-20428-ND◆	39.55	34.21	32.07	PTH05T210WAZ
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	—	90.0	TH	Horizontal	296-20434-ND◆	34.20	29.07	26.94	PTH08T210WAD
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	—	90.0	TH	Horizontal	296-20435-ND	34.20	29.07	26.94	PTH08T210WAH
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	—	90.0	SMT	Horizontal	296-20436-ND	34.20	29.07	26.94	PTH08T210WAS

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
5.5 ~ 14.0	0.7 ~ 3.6 @ 30.0	—	108.0	SMT	Horizontal	296-20437-ND◆	34.20	29.07	26.94	PTH08T210WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	TH	Horizontal	296-20438-ND◆	23.94	20.35	18.86	PTH08T220WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	TH	Horizontal	296-20439-ND	23.94	20.35	18.86	PTH08T220WAH
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	SMT	Horizontal	296-20440-ND	23.94	20.35	18.86	PTH08T220WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	SMT	Horizontal	296-20441-ND◆	23.94	20.35	18.86	PTH08T220WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	TH	Horizontal	296-21334-ND◆	23.94	20.35	18.86	PTH08T221WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	SMT	Horizontal	296-21335-ND	23.94	20.35	18.86	PTH08T221WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	—	88.0	SMT	Horizontal	296-21336-ND◆	23.94	20.35	18.86	PTH08T221WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	TH	Horizontal	296-20647-ND◆	16.52	13.90	12.77	PTH08T230WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-20648-ND◆	16.52	13.90	12.77	PTH08T230WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-20649-ND◆	16.52	13.90	12.77	PTH08T230WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	TH	Horizontal	296-21587-ND◆	16.52	13.90	12.77	PTH08T231WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-21588-ND◆	16.52	13.90	12.77	PTH08T231WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-21589-ND◆	16.52	13.90	12.77	PTH08T231WAZ
4.5 ~ 14.0	0.69 ~ 2.0 @ 10.0	—	20.0	TH	Horizontal	296-22771-ND	20.52	17.45	16.16	PTH08T240FAD
4.5 ~ 14.0	0.69 ~ 2.0 @ 10.0	—	20.0	SMT	Horizontal	296-22772-ND◆	20.52	17.45	16.16	PTH08T240FAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	TH	Horizontal	296-20442-ND◆	20.52	17.45	16.16	PTH08T240WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	TH	Horizontal	296-20443-ND	20.52	17.45	16.16	PTH08T240WAH
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-20444-ND	20.52	17.45	16.16	PTH08T240WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-20445-ND◆	20.52	17.45	16.16	PTH08T240WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	TH	Horizontal	296-21337-ND◆	20.52	17.45	16.16	PTH08T241WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-21338-ND	20.52	17.45	16.16	PTH08T241WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-21339-ND◆	20.52	17.45	16.16	PTH08T241WAZ
4.5 ~ 14.0	0.7 ~ 3.6 @ 50.0	—	180.0	TH	Horizontal	296-22037-ND	58.14	51.30	48.74	PTH08T250WAD
4.5 ~ 14.0	0.7 ~ 3.6 @ 50.0	—	180.0	SMT	Horizontal	296-22038-ND	58.14	51.30	48.74	PTH08T250WAS
4.5 ~ 14.0	0.7 ~ 3.6 @ 50.0	—	180.0	SMT	Horizontal	296-22039-ND◆	58.14	51.30	48.74	PTH08T250WAZ
8.0 ~ 14.0	3.0 ~ 5.25 @ 40.0	—	210.0	TH	Horizontal	296-24124-ND◆	58.14	51.30	48.74	PTH08T255WAD
8.0 ~ 14.0	3.0 ~ 5.25 @ 40.0	—	210.0	SMT	Horizontal	296-24125-ND	58.14	51.30	48.74	PTH08T255WAS
8.0 ~ 14.0	3.0 ~ 5.25 @ 40.0	—	210.0	SMT	Horizontal	296-24126-ND	58.14	51.30	48.74	PTH08T255WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	TH	Horizontal	296-21404-ND◆	13.75	11.57	10.63	PTH08T260WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	SMT	Horizontal	296-21405-ND	13.75	11.57	10.63	PTH08T260WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	SMT	Horizontal	296-21406-ND◆	13.75	11.57	10.63	PTH08T260WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	TH	Horizontal	296-21539-ND	13.75	11.57	10.63	PTH08T261WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	SMT	Horizontal	296-21540-ND	13.75	11.57	10.63	PTH08T261WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	—	16.5	SMT	Horizontal	296-21590-ND◆	13.75	11.57	10.63	PTH08T261WAZ
4.75 ~ 14.0	0.7 ~ 3.6 @ 6.0	—	21.6	TH	Horizontal	296-24609-ND ***NEW!***	15.18	12.77	11.73	PTD08A006WAD
4.75 ~ 14.0	0.7 ~ 3.6 @ 10.0	—	36.0	TH	Horizontal	296-23167-ND	18.70	15.73	14.45	PTD08A010WAD
4.75 ~ 14.0	0.7 ~ 3.6 @15.0	—	54	TH	Horizontal	296-25492-ND ***NEW!***	20.90	17.58	16.15	PTD08A015WAD
4.75 ~ 14.0	0.7 ~ 3.6 @ 15.0	—	54	TH	Horizontal	296-27550-ND◆ ***NEW!***	20.35	17.12	15.73	PTD08D210WAC
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	—	180.0	TH	Vertical	296-20529-ND◆	70.54	63.06	59.85	PTV08T250WAD
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	—	180.0	TH	Vertical	296-20530-ND	70.54	63.06	59.85	PTV08T250WAH
3.3V Input										
3.1 ~ 5.5	2.0 @ 5.5	—	11.0	SMT	Horizontal	296-20128-ND	30.18	25.66	23.77	PT5403C
3.1 ~ 5.5	1.8 @ 5.5	—	9.9	SMT	Horizontal	296-20129-ND◆	30.18	25.66	23.77	PT5404C
3.1 ~ 5.5	1.2 @ 5.5	—	6.6	TH	Horizontal	PT5406A-ND	30.18	25.66	23.77	PT5406A
3.1 ~ 5.5	1.0 @ 5.5	—	5.5	TH	Horizontal	296-20130-ND◆	30.18	25.66	23.77	PT5407A
3.1 ~ 3.6	2.5 @ 6.0	—	15.0	TH	Horizontal	296-20131-ND◆	30.18	25.66	23.77	PT5408A
3.1 ~ 3.6	2.5 @ 6.0	—	15.0	TH	Vertical	296-20132-ND	30.18	25.66	23.77	PT5408N
2.95 ~ 3.65	2.5 @ 20.0	—	50.0	TH	Horizontal	296-20144-ND	53.08	45.91	43.04	PT5812A
2.95 ~ 3.65	1.8 @ 20.0	—	36.0	TH	Horizontal	296-20145-ND	53.08	45.91	43.04	PT5813A
2.95 ~ 3.65	1.8 @ 20.0	—	36.0	SMT	Horizontal	296-20146-ND	53.08	45.91	43.04	PT5813C
2.95 ~ 3.65	1.5 @ 20.0	—	30.0	TH	Horizontal	296-20147-ND	53.08	45.91	43.04	PT5814A
2.95 ~ 3.65	1.5 @ 20.0	—	30.0	SMT	Horizontal	296-20148-ND	53.08	45.91	43.04	PT5814C
2.95 ~ 3.65	1.5 @ 20.0	—	30.0	TH	Vertical	296-20149-ND	53.08	45.91	43.04	PT5814N
2.95 ~ 3.65	1.2 @ 20.0	—	24.0	SMT	Horizontal	296-20150-ND	53.08	45.91	43.04	PT5815C
2.95 ~ 3.65	2.5 @ 14.0	—	35.0	TH	Vertical	296-20183-ND	41.27	35.70	33.47	PT6472N
2.95 ~ 3.65	1.8 @ 14.0	—	25.2	TH	Vertical	296-20184-ND	41.27	35.70	33.47	PT6474N
2.95 ~ 3.65	1.5 @ 14.0	—	21.0	TH	Horizontal	296-20185-ND	41.27	35.70	33.47	PT6475A
2.95 ~ 3.65	1.5 @ 14.0	—	21.0	SMT	Horizontal	296-20186-ND	41.27	35.70	33.47	PT6475C
2.95 ~ 3.65	1.5 @ 14.0	—	21.0	TH	Vertical	296-20187-ND	41.27	35.70	33.47	PT6475N
2.95 ~ 3.65	1.2 @ 14.0	—	16.8	TH	Vertical	296-20188-ND	41.27	35.70	33.47	PT6476N
3.1 ~ 3.6	5.0 @ 4.0	—	20.0	SMT	Horizontal	296-20199-ND◆	44.73	38.69	36.27	PT6671E
3.1 ~ 3.6	1.3 ~ 2.05 @ 13.0	—	26.7	SMT	Horizontal	296-20201-ND	49.86	43.12	40.43	PT6702C
3.1 ~ 5.5	1.1 ~ 1.85 @ 13.0	—	24.1	TH	Horizontal	296-20202-ND◆	49.86	43.12	40.43	PT6703A
3.1 ~ 5.5	1.8 @ 13.0	—	23.4	TH	Horizontal	296-20204-ND	45.99	39.78	37.29	PT6717A
3.1 ~ 3.6	-4.4 ~ -1.4 @ 5.0	—	12.0	SMT	Horizontal	296-20220-ND	66.73	58.88	55.94	PT6914C
3.1 ~ 3.6	-4.4 ~ -1.4 @ 5.0	—	12.0	TH	Vertical	296-20221-ND	66.73	58.88	55.94	PT6914N
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	—	15.0	TH	Horizontal	296-20366-ND◆	15.18	12.77	11.73	PTH03000WAH
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	—	15.0	SMT	Horizontal	296-20367-ND	15.18	12.77	11.73	PTH03000WAS
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	—	15.0	SMT	Horizontal	296-20368-ND◆	15.18	12.77	11.73	PTH03000WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	—	37.5	TH	Horizontal	296-20369-ND◆	22.04	18.74	17.36	PTH03010WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	—	37.5	SMT	Horizontal	296-20370-ND	22.04	18.74	17.36	PTH03010WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	—	37.5	SMT	Horizontal	296-20371-ND◆	22.04	18.74	17.36	PTH03010WAZ
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	—	27.0	TH	Horizontal	296-20372-ND	27.56	23.43	21.71	PTH03010YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	—	27.0	SMT	Horizontal	296-20373-ND	27.56	23.43	21.71	PTH03010YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	—	27.0	SMT	Horizontal	296-20374-ND◆	27.56	23.43	21.71	PTH03010YAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	—	55.0	TH	Horizontal	296-20375-ND◆	28.50	24.23	22.45	PTH03020WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	—	55.0	SMT	Horizontal	296-20376-ND	28.50	24.23	22.45	PTH03020WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	—	55.0	SMT	Horizontal	296-20377-ND◆	28.50	24.23	22.45	PTH03020WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	—	75.0	TH	Horizontal	296-20378-ND◆	32.30	27.46	25.44	PTH03030WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	—	75.0	SMT	Horizontal	296-20379-ND	32.30	27.46	25.44	PTH03030WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	—	75.0	SMT	Horizontal	296-20380-ND◆	32.30	27.46	25.44	PTH03030WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 6.0	—	15.0	TH	Horizontal	296-20381-ND◆	14.43	12.14	11.16	PTH03050WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 6.0	—	15.0	SMT	Horizontal	296-20382-ND	14.43	12.14	11.16	PTH03050WAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	—	10.8	TH	Horizontal	296-19802-ND◆	14.43	12.14	11.16	PTH03050YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	——	10.8	SMT	Horizontal	296-20383-ND	14.43	12.14	11.16	PTH03050YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20384-ND◆	14.43	12.14	11.16	PTH03050YAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	—	25.0	TH	Horizontal	296-20385-ND◆	20.48	17.23	15.83	PTH03060WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	—	25.0	SMT	Horizontal	296-20386-ND	20.48	17.23	15.83	PTH03060WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	—	25.0	SMT	Horizontal	296-20387-ND◆	20.48	17.23	15.83	PTH03060WAZ
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	—	18.0	TH	Horizontal	296-19805-ND◆	20.48	17.23	15.83	PTH03060YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20388-ND◆	20.48	17.23	15.83	PTH03060YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20389-ND◆	20.48	17.23	15.83	PTH03060YAZ
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	TH	Horizontal	296-20390-ND◆	10.70	8.78	7.92	PTH04000WAH
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-20391-ND	10.70	8.78	7.92	PTH04000WAS
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-20392-ND◆	10.70	8.78	7.92	PTH04000WAZ
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	—	150.0	TH	Horizontal	296-20393-ND◆	68.57	61.31	58.19	PTH04040WAD
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	—	150.0	TH	Horizontal	296-20394-ND	68.57	61.31	58.19	PTH04040WAH
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	—	150.0	SMT	Horizontal	296-20395-ND	68.57	61.31	58.19	PTH04040WAS

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

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Plug-In Power Modules Non-Isolated POL *(Cont.)*

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	—	150.0	SMT	Horizontal	296-20396-ND	68.57	61.31	58.19	PTH04040WAZ
3.3 ~ 5.0	0.9 ~ 3.6 @5.0	—	10.8	TH	Horizontal	296-26309-ND◆ ***NEW!***	10.75	8.82	7.96	PTH04070WAD
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	TH	Horizontal	296-20397-ND◆	10.75	8.82	7.96	PTH04070WAH
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-20398-ND	10.75	8.82	7.96	PTH04070WAS
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	—	10.8	SMT	Horizontal	296-20399-ND◆	10.75	8.82	7.96	PTH04070WAZ
2.95 ~ 3.6	0.8 ~ 2.5 @ 8.0	—	20.0	TH	Vertical	296-20986-ND◆	18.08	15.21	13.98	PTV03010WAH
2.95 ~ 3.6	0.8 ~ 2.5 @ 18.0	—	45.0	TH	Vertical	296-20987-ND◆	27.56	23.43	21.71	PTV03020WAH
5V Input										
4.75 ~ 7.0	-3.3 @ 1.0	—	3.3	TH	Horizontal	296-20080-ND	24.22	20.59	19.08	PT5021A
4.75 ~ 7.0	-3.3 @ 1.0	—	3.3	SMT	Horizontal	296-20081-ND	24.22	20.59	19.08	PT5021C
4.75 ~ 7.0	-3.3 @ 1.0	—	3.3	TH	Vertical	296-20082-ND◆	24.22	20.59	19.08	PT5021N
4.75 ~ 7.0	-5.0 @ 1.0	—	5.0	TH	Horizontal	PT5022A-ND◆	24.22	20.59	19.08	PT5022A
4.75 ~ 7.0	-5.0 @ 1.0	—	5.0	SMT	Horizontal	PT5022C-ND◆	24.22	20.59	19.08	PT5022C
4.75 ~ 7.0	-5.0 @ 1.0	—	5.0	TH	Vertical	PT5022N-ND◆	24.22	20.59	19.08	PT5022N
4.75 ~ 7.0	-9.0 @ 0.6	—	5.4	TH	Horizontal	296-20083-ND◆	24.22	20.59	19.08	PT5023A
4.75 ~ 7.0	-9.0 @ 0.6	—	5.4	TH	Vertical	296-20084-ND◆	24.22	20.59	19.08	PT5023N
4.75 ~ 7.0	-12.0 @ 0.5	—	6.0	TH	Horizontal	PT5024A-ND◆	24.22	20.59	19.08	PT5024A
4.75 ~ 7.0	-12.0 @ 0.5	—	6.0	SMT	Horizontal	PT5024C-ND◆	24.22	20.59	19.08	PT5024C
4.75 ~ 7.0	-12.0 @ 0.5	—	6.0	TH	Vertical	PT5024N-ND	24.22	20.59	19.08	PT5024N
4.75 ~ 7.0	-15.0 @ 0.3	—	4.5	SMT	Horizontal	296-20085-ND◆	24.22	20.59	19.08	PT5025C
4.75 ~ 7.0	-15.0 @ 0.3	—	4.5	TH	Vertical	296-20086-ND◆	24.22	20.59	19.08	PT5025N
4.75 ~ 7.0	-5.2 @ 1.0	—	5.2	TH	Horizontal	296-20087-ND◆	24.22	20.59	19.08	PT5026A
4.75 ~ 7.0	-5.2 @ 1.0	—	5.2	TH	Vertical	296-20088-ND	24.22	20.59	19.08	PT5026N
4.75 ~ 7.0	-8.0 @ 0.6	—	4.8	TH	Horizontal	296-20089-ND	24.22	20.59	19.08	PT5027A
4.75 ~ 7.0	-8.0 @ 0.6	—	4.8	SMT	Horizontal	296-20090-ND	24.22	20.59	19.08	PT5027C
4.75 ~ 7.0	-6.0 @ 1.0	—	6.0	TH	Horizontal	296-20092-ND◆	24.22	20.59	19.08	PT5030A
4.75 ~ 7.0	-6.0 @ 1.0	—	6.0	SMT	Horizontal	296-20093-ND	24.22	20.59	19.08	PT5030C
4.75 ~ 7.0	-6.0 @ 1.0	—	6.0	TH	Vertical	296-20094-ND	24.22	20.59	19.08	PT5030N
4.75 ~ 7.0	-1.7 @ 1.0	—	1.7	SMT	Horizontal	296-20095-ND	24.22	20.59	19.08	PT5031C
4.75 ~ 7.0	-1.7 @ 1.0	—	1.7	TH	Vertical	296-20096-ND	24.22	20.59	19.08	PT5031N
4.75 ~ 11.0	12.0 @ 1.0	—	12.0	TH	Horizontal	PT5041A-ND◆	24.22	20.59	19.08	PT5041A
4.75 ~ 11.0	12.0 @ 1.0	—	12.0	SMT	Horizontal	PT5041C-ND	24.22	20.59	19.08	PT5041C
4.75 ~ 11.0	12.0 @ 1.0	—	12.0	TH	Vertical	PT5041N-ND◆	24.22	20.59	19.08	PT5041N
4.75 ~ 14.0	15.0 @ 0.75	—	11.3	TH	Horizontal	PT5042A-ND	24.22	20.59	19.08	PT5042A
4.75 ~ 14.0	15.0 @ 0.75	—	11.3	TH	Vertical	296-20097-ND◆	24.22	20.59	19.08	PT5042N
4.75 ~ 7.0	8.0 @ 1.5	—	12.0	SMT	Horizontal	296-20098-ND◆	24.22	20.59	19.08	PT5044C
4.75 ~ 7.0	8.0 @ 1.5	—	12.0	TH	Vertical	296-20099-ND◆	24.22	20.59	19.08	PT5044N
4.75 ~ 8.0	9.0 @ 1.2	—	10.8	TH	Horizontal	296-20100-ND◆	24.22	20.59	19.08	PT5045A
4.75 ~ 9.0	10.0 @ 1.2	—	12.0	TH	Horizontal	296-20101-ND◆	24.22	20.59	19.08	PT5046A
4.75 ~ 9.0	10.0 @ 1.2	—	12.0	TH	Vertical	296-20103-ND◆	24.22	20.59	19.08	PT5046N
4.75 ~ 11.6	12.6 @ 1.0	—	12.6	TH	Horizontal	296-20104-ND◆	24.22	20.59	19.08	PT5048A
4.75 ~ 11.6	12.6 @ 1.0	—	12.6	SMT	Horizontal	296-20105-ND◆	24.22	20.59	19.08	PT5048C
4.75 ~ 14.0	20.0 @ 0.5	—	10.0	TH	Horizontal	PT5049A-ND	24.22	20.59	19.08	PT5049A
4.75 ~ 14.0	20.0 @ 0.5	—	10.0	SMT	Horizontal	296-20106-ND◆	24.22	20.59	19.08	PT5049C
4.75 ~ 14.0	20.0 @ 0.5	—	10.0	TH	Vertical	296-20107-ND	24.22	20.59	19.08	PT5049N
4.75 ~ 11.0	±12.0 @ 0.5	-12.0 @ 0.25	9.0	TH	Horizontal	PT5061A-ND	27.46	23.35	21.63	PT5061A
4.75 ~ 11.0	±12.0 @ 0.5	-12.0 @ 0.25	9.0	SMT	Horizontal	PT5061C-ND	27.46	23.35	21.63	PT5061C
4.75 ~ 11.0	±12.0 @ 0.5	-12.0 @ 0.25	9.0	TH	Vertical	PT5061N-ND	27.46	23.35	21.63	PT5061N
4.75 ~ 14.0	±15.0 @ 0.4	-15.0 @ 0.20	9.0	TH	Horizontal	PT5062A-ND	27.46	23.35	21.63	PT5062A
4.75 ~ 14.0	±15.0 @ 0.4	-15.0 @ 0.20	9.0	SMT	Horizontal	296-20108-ND	27.46	23.35	21.63	PT5062C
4.75 ~ 14.0	±15.0 @ 0.4	-15.0 @ 0.20	9.0	TH	Vertical	296-20109-ND	27.46	23.35	21.63	PT5062N
4.5 ~ 5.5	3.3 @ 6.0	—	19.8	TH	Horizontal	PT5401A-ND◆	30.18	25.66	23.77	PT5401A
4.5 ~ 5.5	2.5 @ 6.0	—	15.0	TH	Horizontal	PT5402A-ND◆	30.18	25.66	23.77	PT5402A
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	TH	Horizontal	PT5501A-ND	35.96	30.57	28.32	PT5501A
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	SMT	Horizontal	PT5501C-ND	35.96	30.57	28.32	PT5501C
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	TH	Vertical	PT5501N-ND	35.96	30.57	28.32	PT5501N
3.1 ~ 5.5	2.5 @ 3.0	—	7.5	TH	Horizontal	PT5502A-ND	35.96	30.57	28.32	PT5502A
3.1 ~ 5.5	1.8 @ 3.0	—	5.4	TH	Horizontal	PT5504A-ND	35.96	30.57	28.32	PT5504A
3.1 ~ 5.5	1.5 @ 3.0	—	4.5	TH	Horizontal	PT5505A-ND	35.96	30.57	28.32	PT5505A
3.1 ~ 5.5	1.2 @ 3.0	—	3.6	TH	Horizontal	PT5506A-ND	35.96	30.57	28.32	PT5506A
4.5 ~ 7.0	8.0 @ 1.75	—	14.0	SMT	Horizontal	296-20133-ND◆	24.22	20.59	19.08	PT5544C
4.5 ~ 5.5	3.3 @ 18.0	—	59.4	SMT	Horizontal	296-20134-ND◆	53.08	45.91	43.04	PT5801C
4.5 ~ 5.5	2.5 @ 18.0	—	45.0	TH	Horizontal	296-20136-ND	53.08	45.91	43.04	PT5802A
4.5 ~ 5.5	2.5 @ 18.0	—	45.0	TH	Vertical	296-20137-ND	53.08	45.91	43.04	PT5802N
4.5 ~ 5.5	1.8 @ 18.0	—	32.4	SMT	Horizontal	296-20138-ND◆	53.08	45.91	43.04	PT5803C
4.5 ~ 5.5	1.8 @ 18.0	—	32.4	TH	Vertical	296-20139-ND	53.08	45.91	43.04	PT5803N
4.5 ~ 5.5	1.2 @ 18.0	—	21.6	TH	Horizontal	296-20140-ND	53.08	45.91	43.04	PT5805A
4.5 ~ 5.5	1.2 @ 18.0	—	21.6	SMT	Horizontal	296-20141-ND	53.08	45.91	43.04	PT5805C
4.5 ~ 5.5	1.2 @ 18.0	—	21.6	TH	Vertical	296-20142-ND	53.08	45.91	43.04	PT5805N
4.5 ~ 5.5	1.0 @ 18.0	—	18.0	TH	Horizontal	296-20143-ND◆	53.08	45.91	43.04	PT5806A
4.5 ~ 9.0	3.3 @ 3.0	—	9.9	SMT	Horizontal	PT6305C-ND	43.09	37.27	34.94	PT6305C
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	TH	Horizontal	PT6405D-ND◆	43.33	37.48	35.13	PT6405D
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	SMT	Horizontal	PT6405E-ND	43.33	37.48	35.13	PT6405E
4.5 ~ 5.5	3.3 @ 3.0	—	9.9	TH	Vertical	PT6405P-ND	43.33	37.48	35.13	PT6405P
4.5 ~ 5.5	3.3 @ 6.0	—	19.8	SMT	Horizontal	296-22735-ND	52.67	46.47	44.15	PT6441C
4.5 ~ 5.5	3.3 @ 14.0	—	46.2	TH	Horizontal	296-20169-ND	54.02	46.72	43.80	PT6461A
4.5 ~ 5.5	3.3 @ 14.0	—	46.2	SMT	Horizontal	296-20170-ND◆	54.02	46.72	43.80	PT6461C
4.5 ~ 5.5	3.3 @ 14.0	—	46.2	TH	Vertical	296-20171-ND◆	54.02	46.72	43.80	PT6461N
4.5 ~ 5.5	2.5 @ 14.0	—	35.0	TH	Horizontal	296-20172-ND	41.27	35.70	33.47	PT6462A
4.5 ~ 5.5	2.5 @ 14.0	—	35.0	SMT	Horizontal	296-20173-ND	41.27	35.70	33.47	PT6462C
4.5 ~ 5.5	2.0 @ 14.0	—	28.0	TH	Horizontal	296-20174-ND	41.27	35.70	33.47	PT6463A
4.5 ~ 5.5	2.0 @ 14.0	—	28.0	SMT	Horizontal	296-20175-ND	41.27	35.70	33.47	PT6463C
4.5 ~ 5.5	1.8 @ 14.0	—	25.2	TH	Horizontal	296-20176-ND	41.27	35.70	33.47	PT6464A
4.5 ~ 5.5	1.5 @ 14.0	—	21.0	TH	Horizontal	296-20177-ND	41.27	35.70	33.47	PT6465A
4.5 ~ 5.5	1.2 @ 14.0	—	16.8	TH	Horizontal	296-20178-ND	41.27	35.70	33.47	PT6466A
4.5 ~ 5.5	1.2 @ 14.0	—	16.8	SMT	Horizontal	296-20179-ND	41.27	35.70	33.47	PT6466C
4.5 ~ 5.5	1.2 @ 14.0	—	16.8	TH	Vertical	296-20180-ND◆	41.27	35.70	33.47	PT6466N
4.5 ~ 5.5	1.0 @ 14.0	—	14.0	SMT	Horizontal	296-20181-ND	41.27	35.70	33.47	PT6467C
4.5 ~ 5.5	1.0 @ 14.0	—	14.0	TH	Vertical	296-20182-ND	41.27	35.70	33.47	PT6467N
4.5 ~ 5.5	3.3 @ 8.0	—	26.4	TH	Horizontal	PT6521D-ND	53.98	47.63	45.25	PT6521D
4.5 ~ 5.5	3.3 @ 8.0	—	26.4	TH	Vertical	PT6521P-ND	53.98	47.63	45.25	PT6521P
4.5 ~ 6.0	3.3 @ 7.0	—	23.1	TH	Horizontal	PT6601D-ND	54.09	46.79	43.86	PT6601D
4.5 ~ 6.0	3.3 @ 7.0	—	23.1	SMT	Horizontal	PT6601E-ND	54.09	46.79	43.86	PT6601E
4.5 ~ 6.0	3.3 @ 7.0	—	23.1	TH	Vertical	PT6601P-ND	54.09	46.79	43.86	PT6601P
4.5 ~ 5.5	12.0 @ 2.0	—	24.0	TH	Horizontal	PT6674D-ND	44.73	38.69	36.27	PT6674D
4.5 ~ 5.5	12.0 @ 2.0	—	24.0	TH	Vertical	296-20200-ND	44.73	38.69	36.27	PT6674P
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	—	45.5	TH	Horizontal	PT6701A-ND	49.86	43.12	40.43	PT6701A
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	—	45.5	SMT	Horizontal	PT6701C-ND	49.86	43.12	40.43	PT6701C
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	—	45.5	TH	Vertical	PT6701N-ND	49.86	43.12	40.43	PT6701N

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

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Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
4.5 ~ 5.5	-4.4 ~ -1.4 @ 6.0	—	12.0	SMT	Horizontal	296-20218-ND	66.73	58.88	55.94	PT6911C
4.5 ~ 5.5	-4.4 ~ -1.4 @ 6.0	—	12.0	TH	Vertical	296-20219-ND◆	66.73	58.88	55.94	PT6911N
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 2.2	25.3	TH	Horizontal	PT6931A-ND	66.73	58.88	55.94	PT6931A
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 2.2	25.3	SMT	Horizontal	PT6931C-ND	66.73	58.88	55.94	PT6931C
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 2.2	25.3	TH	Vertical	296-20222-ND	66.73	58.88	55.94	PT6931N
4.5 ~ 5.5	3.3 @ 6.0	1.5 @ 1.45	22.0	SMT	Horizontal	PT6932C-ND	66.73	58.88	55.94	PT6932C
4.5 ~ 5.5	3.3 @ 6.0	1.8 @ 1.75	23.0	SMT	Horizontal	296-20223-ND◆	66.73	58.88	55.94	PT6933C
4.5 ~ 5.5	3.3 @ 6.0	1.8 @ 1.75	23.0	TH	Vertical	296-20224-ND	66.73	58.88	55.94	PT6933N
4.5 ~ 5.5	3.3 @ 11.0	2.5 @ 3.0	43.8	TH	Horizontal	296-20226-ND	67.49	60.33	57.26	PT6936A
4.5 ~ 5.5	3.3 @ 11.0	2.5 @ 3.0	43.8	TH	Vertical	296-20227-ND	67.49	60.33	57.26	PT6936N
4.5 ~ 5.5	3.3 @ 10.0	1.8 @ 2.25	37.0	TH	Horizontal	296-20228-ND◆	67.49	60.33	57.26	PT6937A
4.5 ~ 5.5	3.3 @ 10.0	1.8 @ 2.25	37.0	SMT	Horizontal	296-20229-ND◆	67.49	60.33	57.26	PT6937C
4.5 ~ 5.5	3.3 @ 10.0	1.8 @ 2.25	37.0	TH	Vertical	296-20230-ND	67.49	60.33	57.26	PT6937N
4.5 ~ 5.5	3.3 @ 8.6	1.2 @ 1.6	30.0	SMT	Horizontal	296-20231-ND	67.49	60.33	57.26	PT6938C
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 6.0	34.8	TH	Horizontal	296-20233-ND	79.86	71.39	67.76	PT6941A
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 6.0	34.8	SMT	Horizontal	296-20234-ND	79.86	71.39	67.76	PT6941C
4.5 ~ 5.5	3.3 @ 6.0	2.5 @ 6.0	34.8	TH	Vertical	296-20235-ND	79.86	71.39	67.76	PT6941N
4.5 ~ 5.5	3.3 @ 6.0	1.5 @ 6.0	28.8	TH	Vertical	296-20236-ND	79.86	71.39	67.76	PT6943N
3.1 ~ 5.5	2.5 @ 6.0	1.8 @ 6.0	25.8	TH	Horizontal	296-20237-ND	79.86	71.39	67.76	PT6946A
3.1 ~ 5.5	2.5 @ 6.0	1.8 @ 6.0	25.8	SMT	Horizontal	296-20238-ND	79.86	71.39	67.76	PT6946C
3.1 ~ 5.5	2.5 @ 6.0	1.5 @ 6.0	24.0	SMT	Horizontal	296-20239-ND◆	79.86	71.39	67.76	PT6947C
4.5 ~ 5.5	1.3 ~ 3.5 @ 29.0	—	101.5	TH	Horizontal	296-20245-ND	65.38	57.69	54.81	PT7671A
4.5 ~ 5.5	1.3 ~ 3.5 @ 29.0	—	101.5	SMT	Horizontal	296-20246-ND	65.38	57.69	54.81	PT7671C
4.5 ~ 5.5	1.075 ~ 1.85 @ 29.0	—	53.7	TH	Horizontal	296-20247-ND	65.38	57.69	54.81	PT7675A
4.5 ~ 5.5	1.075 ~ 1.85 @ 29.0	—	53.7	SMT	Horizontal	296-20248-ND	65.38	57.69	54.81	PT7675C
4.5 ~ 5.5	2.0 ~ 3.5 @ 29.0	—	101.5	TH	Vertical	296-20249-ND	65.38	57.69	54.81	PT7681N
4.5 ~ 5.5	1.3 ~ 3.5 @ 20.0	—	70.0	SMT	Horizontal	PT7711C-ND	85.47	76.13	72.12	PT7711C
4.5 ~ 5.5	0.9 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-20400-ND	15.18	12.77	11.73	PTH05000WAS
4.5 ~ 5.5	0.9 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-20401-ND◆	15.18	12.77	11.73	PTH05000WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	—	54.0	TH	Horizontal	296-20402-ND◆	22.04	18.74	17.36	PTH05010WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	—	54.0	SMT	Horizontal	296-20403-ND	22.04	18.74	17.36	PTH05010WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	—	54.0	SMT	Horizontal	296-20404-ND◆	22.04	18.74	17.36	PTH05010WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	—	27.0	TH	Horizontal	296-20405-ND	27.56	23.43	21.71	PTH05010YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	—	27.0	SMT	Horizontal	296-20406-ND	27.56	23.43	21.71	PTH05010YAS
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	—	27.0	SMT	Horizontal	296-20407-ND◆	27.56	23.43	21.71	PTH05010YAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	—	79.2	TH	Horizontal	296-20408-ND◆	28.50	24.23	22.45	PTH05020WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	—	79.2	SMT	Horizontal	296-20409-ND	28.50	24.23	22.45	PTH05020WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	—	79.2	SMT	Horizontal	296-20410-ND◆	28.50	24.23	22.45	PTH05020WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	—	108.0	TH	Horizontal	296-20411-ND◆	32.30	27.46	25.44	PTH05030WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	—	108.0	SMT	Horizontal	296-20412-ND	32.30	27.46	25.44	PTH05030WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	—	108.0	SMT	Horizontal	296-20413-ND◆	32.30	27.46	25.44	PTH05030WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	—	21.6	TH	Horizontal	296-20414-ND◆	14.43	12.14	11.16	PTH05050WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-20415-ND	14.43	12.14	11.16	PTH05050WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	—	21.6	SMT	Horizontal	296-20416-ND◆	14.43	12.14	11.16	PTH05050WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	—	10.8	TH	Horizontal	296-20417-ND	18.08	15.21	13.98	PTH05050YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20418-ND	18.08	15.21	13.98	PTH05050YAS
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20419-ND◆	18.08	15.21	13.98	PTH05050YAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-26310-ND◆ ***NEW!***	20.48	17.23	15.83	PTH05060WAD
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	—	36.0	TH	Horizontal	296-20420-ND◆	20.48	17.23	15.83	PTH05060WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-20421-ND	20.48	17.23	15.83	PTH05060WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	—	36.0	SMT	Horizontal	296-20422-ND◆	20.48	17.23	15.83	PTH05060WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 10.0	—	18.0	TH	Horizontal	296-20423-ND	23.28	19.79	18.34	PTH05060YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20424-ND	23.28	19.79	18.34	PTH05060YAS
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	—	12.4	TH	Horizontal	296-20429-ND◆	10.70	8.78	7.92	PTH08000WAH
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	—	12.4	SMT	Horizontal	296-20430-ND	10.70	8.78	7.92	PTH08000WAS
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	—	12.4	SMT	Horizontal	296-20431-ND◆	10.70	8.78	7.92	PTH08000WAZ
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	—	12.4	TH	Horizontal	296-20432-ND◆	10.75	8.82	7.96	PTH08080WAH
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	—	12.4	SMT	Horizontal	296-19803-ND	10.75	8.82	7.96	PTH08080WAS
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	—	12.4	SMT	Horizontal	296-20433-ND◆	10.75	8.82	7.96	PTH08080WAZ
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	—	6.0	TH	Horizontal	296-20496-ND◆	20.00	17.00	15.75	PTN04050AAD
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	—	6.0	SMT	Horizontal	296-19681-ND◆	20.00	17.00	15.75	PTN04050AAS
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	—	6.0	SMT	Horizontal	296-20497-ND◆	20.00	17.00	15.75	PTN04050AAZ
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	—	12.0	TH	Horizontal	296-20498-ND◆	20.00	17.00	15.75	PTN04050CAD
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	—	12.0	TH	Horizontal	296-20499-ND	20.00	17.00	15.75	PTN04050CAH
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	—	12.0	SMT	Horizontal	296-19682-ND	20.00	17.00	15.75	PTN04050CAS
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	—	12.0	SMT	Horizontal	296-20500-ND◆	20.00	17.00	15.75	PTN04050CAZ
4.5 ~ 14	0.6 ~ 5.5 @ 6	—	33.0	TH	Vertical	296-22673-5-ND	12.54	10.55	9.69	PTR08060WVD
4.5 ~ 14	0.6 ~ 5.5 @ 10	—	55.0	TH	Vertical	296-22773-5-ND	16.72	14.06	12.92	PTR08100WVD
4.5 ~ 5.5	0.8 ~ 3.6 @ 8.0	—	28.8	TH	Vertical	296-20988-ND◆	18.08	15.21	13.98	PTV05010WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 18.0	—	64.8	TH	Vertical	296-20526-ND	27.56	23.43	21.71	PTV05020WAH
12V Input										
7.0 ~ 16.0	12.0 @ 1.5	—	18.0	TH	Horizontal	PT5071A-ND◆	49.86	43.12	40.43	PT5071A
10.8 ~ 13.2	2.5 @ 16.0	—	40.0	SMT	Horizontal	296-20151-ND	53.08	45.91	43.04	PT5822C
10.8 ~ 13.2	2.5 @ 16.0	—	40.0	TH	Vertical	296-20152-ND	53.08	45.91	43.04	PT5822N
10.8 ~ 13.2	1.8 @ 16.0	—	28.8	TH	Horizontal	296-20153-ND	53.08	45.91	43.04	PT5823A
10.8 ~ 13.2	1.8 @ 16.0	—	28.8	TH	Vertical	296-20154-ND	53.08	45.91	43.04	PT5823N
10.8 ~ 13.2	1.5 @ 16.0	—	24.0	TH	Horizontal	296-20155-ND	53.08	45.91	43.04	PT5824A
10.8 ~ 13.2	1.5 @ 16.0	—	24.0	SMT	Horizontal	296-20156-ND	53.08	45.91	43.04	PT5824C
9.0 ~ 17.0	1.5 @ 2.0	—	3.0	TH	Horizontal	296-20158-ND◆	19.82	16.67	15.32	PT6216D
9.0 ~ 17.0	1.5 @ 2.0	—	3.0	SMT	Horizontal	296-20159-ND◆	26.94	22.90	21.22	PT6216E
9.0 ~ 17.0	1.5 @ 2.0	—	3.0	TH	Vertical	296-20160-ND◆	26.94	22.90	21.22	PT6216P
10.8 ~ 13.2	5.0 @ 6.0	—	30.0	TH	Horizontal	PT6341A-ND	42.62	36.87	34.56	PT6341A
10.8 ~ 13.2	3.3 @ 6.0	—	19.8	SMT	Horizontal	296-20161-ND◆	42.62	36.87	34.56	PT6342C
10.8 ~ 13.2	3.3 @ 6.0	—	19.8	TH	Vertical	296-20162-ND◆	42.62	36.87	34.56	PT6342N
10.8 ~ 13.2	2.5 @ 6.0	—	15.0	SMT	Horizontal	296-20163-ND	42.62	36.87	34.56	PT6343C
10.8 ~ 13.2	2.5 @ 6.0	—	15.0	TH	Vertical	296-20164-ND	42.62	36.87	34.56	PT6343N
10.8 ~ 13.2	1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20165-ND	42.62	36.87	34.56	PT6344C
10.8 ~ 13.2	1.8 @ 6.0	—	10.8	TH	Vertical	296-20166-ND	42.62	36.87	34.56	PT6344N
10.8 ~ 13.2	1.5 @ 6.0	—	9.0	TH	Vertical	296-20167-ND	42.62	36.87	34.56	PT6345N
10.8 ~ 13.2	1.2 @ 6.0	—	7.2	TH	Horizontal	296-20168-ND	42.62	36.87	34.56	PT6346A
9.0 ~ 16.0	5.0 @ 6.0	—	30.0	TH	Horizontal	PT6625D-ND◆	53.98	47.63	45.25	PT6625D
9.0 ~ 16.0	5.0 @ 6.0	—	30.0	SMT	Horizontal	PT6625E-ND	53.98	47.63	45.25	PT6625E
9.0 ~ 16.0	5.0 @ 6.0	—	30.0	TH	Vertical	PT6625P-ND◆	53.98	47.63	45.25	PT6625P
8.0 ~ 27.0	-4.7 ~ -2.2 @ 4.0	—	8.8	TH	Vertical	296-20190-ND	44.73	38.69	36.27	PT6641P
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	—	12.0	TH	Horizontal	PT6642D-ND◆	44.73	38.69	36.27	PT6642D
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	—	12.0	SMT	Horizontal	296-20191-ND◆	44.73	38.69	36.27	PT6642E
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	—	12.0	TH	Vertical	PT6642P-ND◆	44.73	38.69	36.27	PT6642P
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	—	18.0	TH	Horizontal	296-20192-ND◆	44.73	38.69	36.27	PT6643D
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	—	18.0	SMT	Horizontal	296-20193-ND◆	44.73	38.69	36.27	PT6643E

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

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Texas Instruments Plug-In Power Modules Non-Isolated POL *(Cont.)*

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	—	18.0	TH	Vertical	PT6643P-ND◆	44.73	38.69	36.27	PT6643P
8.0 ~ 21.0	-10.2 ~ -6.0 @ 2.5	—	15.0	TH	Horizontal	296-20194-ND◆	44.73	38.69	36.27	PT6644D
8.0 ~ 21.0	-10.2 ~ -6.0 @ 2.5	—	15.0	SMT	Horizontal	296-20195-ND	44.73	38.69	36.27	PT6644E
8.0 ~ 15.0	-17.0 ~ -10.0 @ 1.5	—	15.0	SMT	Horizontal	296-20197-ND◆	44.73	38.69	36.27	PT6645E
8.0 ~ 15.0	-17.0 ~ -10.0 @ 1.5	—	15.0	TH	Vertical	296-20198-ND◆	44.73	38.69	36.27	PT6645P
10.8 ~ 13.2	1.3 ~ 3.5 @ 14.0	—	49.0	TH	Horizontal	PT6721A-ND◆	49.86	43.12	40.43	PT6721A
10.8 ~ 13.2	1.3 ~ 3.5 @ 14.0	—	49.0	TH	Vertical	296-20205-ND◆	49.86	43.12	40.43	PT6721N
10.8 ~ 13.2	1.1 ~ 1.85 @ 14.0	—	25.9	TH	Horizontal	296-20206-ND	49.86	43.12	40.43	PT6722A
10.8 ~ 13.2	2.5 @ 10.5	1.8 @ 2.50	30.8	SMT	Horizontal	296-20240-ND	66.90	59.03	56.08	PT6981C
10.8 ~ 13.2	3.3 @ 10.5	2.5 @ 2.25	40.3	SMT	Horizontal	296-20241-ND	67.49	60.33	57.26	PT6982C
10.8 ~ 13.2	3.3 @ 10.5	2.5 @ 2.25	40.3	TH	Vertical	296-20242-ND	67.49	60.33	57.26	PT6982N
10.8 ~ 13.2	3.3 @ 9.5	1.8 @ 2.0	35.0	TH	Horizontal	296-20243-ND	67.49	60.33	57.26	PT6983A
10.8 ~ 13.2	3.3 @ 9.5	1.8 @ 2.0	35.0	SMT	Horizontal	296-20244-ND	67.49	60.33	57.26	PT6983C
9.0 ~ 15.0	-12.0 @ 1.0	—	12.0	TH	Horizontal	296-20269-ND◆	37.65	32.56	30.53	PT78NR212H
9.0 ~ 15.0	-12.0 @ 1.0	—	12.0	SMT	Horizontal	296-20270-ND◆	37.65	32.56	30.53	PT78NR212S
9.0 ~ 15.0	-12.0 @ 1.0	—	12.0	TH	Vertical	296-20271-ND◆	37.65	32.56	30.53	PT78NR212V
9.0 ~ 15.0	-15.0 @ 0.80	—	12.0	TH	Horizontal	296-20272-ND◆	32.60	27.71	25.68	PT78NR215H
9.0 ~ 15.0	-15.0 @ 0.80	—	12.0	SMT	Horizontal	296-20273-ND◆	32.60	27.71	25.68	PT78NR215S
9.0 ~ 15.0	-15.0 @ 0.80	—	12.0	TH	Vertical	296-20274-ND◆	32.60	27.71	25.68	PT78NR215V
9.0 ~ 15.0	-5.2 @ 2.0	—	10.4	SMT	Horizontal	296-20275-ND◆	32.60	27.71	25.68	PT78NR252S
9.0 ~ 15.0	-5.2 @ 2.0	—	10.4	TH	Vertical	296-20276-ND◆	32.60	27.71	25.68	PT78NR252V
10.8 ~ 13.2	1.3 ~ 3.5 @ 30.0	—	105.0	TH	Horizontal	PT8121A-ND	97.10	86.49	81.94	PT8121A
10.8 ~ 13.2	1.075 ~ 1.85 @ 30.0	—	55.5	TH	Horizontal	296-20304-ND◆	97.10	86.49	81.94	PT8122A
10.8 ~ 13.2	1.05 ~ 1.825 @ 30.0	—	54.8	TH	Horizontal	296-20305-ND	97.10	86.49	81.94	PT8124A
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	TH	Horizontal	296-20446-ND	19.03	16.01	14.71	PTH12000LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20447-ND	19.03	16.01	14.71	PTH12000LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20448-ND◆	19.03	16.01	14.71	PTH12000LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	—	33.0	TH	Horizontal	296-20449-ND◆	15.18	12.77	11.73	PTH12000WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-20450-ND	15.18	12.77	11.73	PTH12000WAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	—	21.6	TH	Horizontal	296-20451-ND◆	27.56	23.43	21.71	PTH12010LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	—	21.6	SMT	Horizontal	296-20452-ND	27.56	23.43	21.71	PTH12010LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	—	21.6	SMT	Horizontal	296-20453-ND◆	27.56	23.43	21.71	PTH12010LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	—	66.0	TH	Horizontal	296-20454-ND◆	22.04	18.74	17.36	PTH12010WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	—	66.0	SMT	Horizontal	296-20455-ND	22.04	18.74	17.36	PTH12010WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	—	66.0	SMT	Horizontal	296-20456-ND◆	22.04	18.74	17.36	PTH12010WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	—	21.6	TH	Horizontal	296-20457-ND	27.56	23.43	21.71	PTH12010YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	—	21.6	SMT	Horizontal	296-20458-ND	27.56	23.43	21.71	PTH12010YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	—	21.6	SMT	Horizontal	296-20459-ND◆	27.56	23.43	21.71	PTH12010YAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	—	32.4	TH	Horizontal	296-20460-ND◆	28.50	24.23	22.45	PTH12020LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	—	32.4	SMT	Horizontal	296-20461-ND	28.50	24.23	22.45	PTH12020LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	—	32.4	SMT	Horizontal	296-20462-ND◆	28.50	24.23	22.45	PTH12020LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	—	99.0	TH	Horizontal	296-20463-ND◆	28.50	24.23	22.45	PTH12020WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	—	99.0	SMT	Horizontal	296-20464-ND	28.50	24.23	22.45	PTH12020WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	—	99.0	SMT	Horizontal	296-20465-ND◆	28.50	24.23	22.45	PTH12020WAZ
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	—	46.8	TH	Horizontal	296-20466-ND	37.35	32.31	30.29	PTH12030LAH
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	—	46.8	SMT	Horizontal	296-20467-ND	37.35	32.31	30.29	PTH12030LAS
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	—	46.8	SMT	Horizontal	296-20468-ND	37.35	32.31	30.29	PTH12030LAZ
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	—	143.0	TH	Horizontal	296-20469-ND◆	37.35	32.31	30.29	PTH12030WAH
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	—	143.0	SMT	Horizontal	296-20470-ND	37.35	32.31	30.29	PTH12030WAS
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	—	143.0	SMT	Horizontal	296-20471-ND◆	37.35	32.31	30.29	PTH12030WAZ
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	—	275.0	TH	Horizontal	296-26313-ND◆ ***NEW!***	56.53	49.88	47.39	PTH12040WAD
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	—	275.0	TH	Horizontal	296-20472-ND	56.53	49.88	47.39	PTH12040WAH
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	—	275.0	SMT	Horizontal	296-20473-ND	56.53	49.88	47.39	PTH12040WAS
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	—	275.0	SMT	Horizontal	296-20985-ND	56.53	49.88	47.39	PTH12040WAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	TH	Horizontal	296-20474-ND◆	14.43	12.14	11.16	PTH12050LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20475-ND	14.43	12.14	11.16	PTH12050LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20476-ND◆	14.43	12.14	11.16	PTH12050LAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-26314-ND◆ ***NEW!***	14.43	12.14	11.16	PTH12050WAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	—	33.0	TH	Horizontal	296-20477-ND◆	14.43	12.14	11.16	PTH12050WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-20478-ND	14.43	12.14	11.16	PTH12050WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	—	33.0	SMT	Horizontal	296-20479-ND◆	14.43	12.14	11.16	PTH12050WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	—	10.8	TH	Horizontal	296-20480-ND◆	18.08	15.21	13.98	PTH12050YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20481-ND	18.08	15.21	13.98	PTH12050YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	—	10.8	SMT	Horizontal	296-20482-ND◆	18.08	15.21	13.98	PTH12050YAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	—	18.0	TH	Horizontal	296-20483-ND◆	20.48	17.23	15.83	PTH12060LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20484-ND	20.48	17.23	15.83	PTH12060LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20485-ND◆	20.48	17.23	15.83	PTH12060LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	—	55.0	TH	Horizontal	296-26316-ND◆ ***NEW!***	20.48	17.23	15.83	PTH12060WAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	—	55.0	TH	Horizontal	296-20486-ND◆	20.48	17.23	15.83	PTH12060WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-20487-ND	20.48	17.23	15.83	PTH12060WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	—	55.0	SMT	Horizontal	296-20488-ND◆	20.48	17.23	15.83	PTH12060WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	—	18.0	TH	Horizontal	296-20489-ND◆	23.28	19.79	18.34	PTH12060YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20490-ND◆	23.28	19.79	18.34	PTH12060YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	—	18.0	SMT	Horizontal	296-20491-ND◆	23.28	19.79	18.34	PTH12060YAZ
7.0 ~ 28.7	-15.0 ~ -3.0 @ 1.5	—	9.0	TH	Horizontal	296-20501-ND◆	17.60	14.80	13.60	PTN78000AAH
7.0 ~ 28.7	-15.0 ~ -3.0 @ 1.5	—	9.0	SMT	Horizontal	296-20502-ND◆	17.60	14.80	13.60	PTN78000AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	—	18.9	TH	Horizontal	296-20506-ND◆	17.60	14.80	13.60	PTN78000WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	—	18.9	SMT	Horizontal	296-20507-ND	17.60	14.80	13.60	PTN78000WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	—	18.9	SMT	Horizontal	296-20508-ND◆	17.60	14.80	13.60	PTN78000WAZ
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	—	25.0	TH	Horizontal	296-20509-ND	37.50	31.88	29.54	PTN78020AAH
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	—	25.0	SMT	Horizontal	296-20510-ND	37.50	31.88	29.54	PTN78020AAS
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	—	25.0	SMT	Horizontal	296-20511-ND◆	37.50	31.88	29.54	PTN78020AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	—	90.0	TH	Horizontal	296-20515-ND◆	30.00	25.50	23.63	PTN78020WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	—	90.0	SMT	Horizontal	296-20516-ND	30.00	25.50	23.63	PTN78020WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	—	90.0	SMT	Horizontal	296-20517-ND◆	30.00	25.50	23.63	PTN78020WAZ
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	—	15.0	TH	Horizontal	296-20518-ND◆	27.50	23.38	21.66	PTN78060AAH
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	—	15.0	SMT	Horizontal	296-20519-ND	27.50	23.38	21.66	PTN78060AAS
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	—	15.0	SMT	Horizontal	296-20520-ND◆	27.50	23.38	21.66	PTN78060AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	—	45.0	TH	Horizontal	296-20523-ND◆	22.00	18.70	17.33	PTN78060WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	—	45.0	SMT	Horizontal	296-20524-ND	22.00	18.70	17.33	PTN78060WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	—	45.0	SMT	Horizontal	296-20525-ND◆	22.00	18.70	17.33	PTN78060WAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	—	37.8	SMT	Horizontal	296-26317-1-ND†◆ ***NEW!***	25.00	22.50	20.63	PTN78060WAZT
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	—	37.8	SMT	Horizontal	296-26317-2-ND‡◆ ***NEW!***	4531.25/250			PTN78060WAZT
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	—	180.0	TH	Vertical	296-20527-ND◆	68.57	61.31	58.19	PTV08040WAD
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	—	180.0	TH	Vertical	296-20528-ND◆	68.57	61.31	58.19	PTV08040WAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 8.0	—	14.4	TH	Vertical	296-20989-ND◆	18.08	15.21	13.98	PTV12010LAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 8.0	—	44.0	TH	Vertical	296-20531-ND◆	18.08	15.21	13.98	PTV12010WAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 16.0	—	28.8	TH	Vertical	296-20532-ND	22.04	18.74	17.36	PTV12020LAH

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
10.8 ~ 13.2	1.2 ~ 5.5 @ 16.0	—	88.0	TH	Vertical	296-20533-ND◆	22.04	18.74	17.36	PTV12020WAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 16.0	—	88.0	TH	Vertical	296-20534-ND◆	22.04	18.74	17.36	PTV12020WAH
24V Input										
8.0 ~ 28.0	5.0 @ 3.0	—	15.0	TH	Horizontal	78HT305HC-ND◆	48.67	42.10	39.47	78HT305HC
8.0 ~ 28.0	5.0 @ 3.0	—	15.0	TH	Vertical	78HT305VC-ND◆	48.67	42.10	39.47	78HT305VC
8.0 ~ 20.0	5.0 @ 3.0	—	15.0	TH	Horizontal	78ST305HC-ND◆	48.67	42.10	39.47	78ST305HC
8.0 ~ 20.0	5.0 @ 3.0	—	15.0	TH	Vertical	78ST305VC-ND◆	48.67	42.10	39.47	78ST305VC
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	TH	Horizontal	PT5101A-ND◆	15.80	13.29	12.21	PT5101A
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	SMT	Horizontal	PT5101C-ND◆	15.80	13.29	12.21	PT5101C
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	TH	Vertical	PT5101N-ND◆	15.80	13.29	12.21	PT5101N
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	TH	Horizontal	PT5102A-ND◆	20.57	17.30	15.90	PT5102A
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	SMT	Horizontal	PT5102C-ND◆	20.57	17.30	15.90	PT5102C
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	TH	Vertical	PT5102N-ND◆	20.57	17.30	15.90	PT5102N
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	TH	Horizontal	PT5103A-ND◆	20.57	17.30	15.90	PT5103A
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	SMT	Horizontal	PT5103C-ND◆	20.57	17.30	15.90	PT5103C
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	TH	Vertical	PT5103N-ND◆	20.57	17.30	15.90	PT5103N
10.5 ~ 38.0	6.5 @ 1.0	—	6.5	TH	Horizontal	296-20110-ND◆	20.57	17.30	15.90	PT5105A
10.5 ~ 38.0	6.5 @ 1.0	—	6.5	SMT	Horizontal	296-20111-ND	20.57	17.30	15.90	PT5105C
10.5 ~ 38.0	6.5 @ 1.0	—	6.5	TH	Vertical	296-20112-ND◆	20.57	17.30	15.90	PT5105N
19.0 ~ 38.0	15.0 @ 1.0	—	15.0	TH	Horizontal	296-20113-ND◆	20.57	17.30	15.90	PT5107A
19.0 ~ 38.0	15.0 @ 1.0	—	15.0	SMT	Horizontal	296-20114-ND◆	20.57	17.30	15.90	PT5107C
19.0 ~ 38.0	15.0 @ 1.0	—	15.0	TH	Vertical	296-20115-ND◆	20.57	17.30	15.90	PT5107N
9.6 ~ 38.0	5.6 @ 1.0	—	5.6	TH	Horizontal	296-20116-ND◆	20.57	17.30	15.90	PT5109A
9.6 ~ 38.0	5.6 @ 1.0	—	5.6	SMT	Horizontal	296-20117-ND◆	20.57	17.30	15.90	PT5109C
9.6 ~ 38.0	5.6 @ 1.0	—	5.6	TH	Vertical	296-20118-ND◆	20.57	17.30	15.90	PT5109N
13.0 ~ 38.0	9.0 @ 1.0	—	9.0	TH	Horizontal	296-20119-ND	20.57	17.30	15.90	PT5110A
13.0 ~ 38.0	9.0 @ 1.0	—	9.0	SMT	Horizontal	296-20120-ND	20.57	17.30	15.90	PT5110C
13.0 ~ 38.0	9.0 @ 1.0	—	9.0	TH	Vertical	296-20121-ND	20.57	17.30	15.90	PT5110N
14.0 ~ 38.0	10.0 @ 1.0	—	10.0	TH	Horizontal	296-20122-ND	20.57	17.30	15.90	PT5111A
14.0 ~ 38.0	10.0 @ 1.0	—	10.0	SMT	Horizontal	296-20123-ND	13.75	11.57	10.63	PT5111C
14.0 ~ 38.0	10.0 @ 1.0	—	10.0	TH	Vertical	296-20124-ND	20.57	17.30	15.90	PT5111N
12.0 ~ 38.0	8.0 @ 1.0	—	8.0	TH	Horizontal	296-20125-ND◆	20.57	17.30	15.90	PT5112A
12.0 ~ 38.0	8.0 @ 1.0	—	8.0	SMT	Horizontal	296-20126-ND	20.57	17.30	15.90	PT5112C
12.0 ~ 38.0	8.0 @ 1.0	—	8.0	TH	Vertical	296-20127-ND	20.57	17.30	15.90	PT5112N
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	TH	Horizontal	PT6101A-ND◆	16.28	13.69	12.58	PT6101A
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	SMT	Horizontal	PT6101C-ND◆	16.28	13.69	12.58	PT6101C
9.0 ~ 38.0	5.0 @ 1.0	—	5.0	TH	Vertical	PT6101N-ND◆	16.28	13.69	12.58	PT6101N
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	TH	Horizontal	PT6102A-ND◆	21.14	17.78	16.34	PT6102A
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	SMT	Horizontal	PT6102C-ND◆	21.14	17.78	16.34	PT6102C
9.0 ~ 26.0	3.3 @ 1.0	—	3.3	TH	Vertical	PT6102N-ND	21.14	17.78	16.34	PT6102N
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	TH	Horizontal	PT6103A-ND◆	21.14	17.78	16.34	PT6103A
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	SMT	Horizontal	PT6103C-ND◆	21.14	17.78	16.34	PT6103C
16.0 ~ 38.0	12.0 @ 1.0	—	12.0	TH	Vertical	PT6103N-ND◆	21.14	17.78	16.34	PT6103N
7.25 ~ 30.0	5.0 @ 2.0	—	10.0	TH	Horizontal	PT6202A-ND◆	35.20	29.92	27.72	PT6202A
7.25 ~ 30.0	5.0 @ 2.0	—	10.0	TH	Vertical	PT6202N-ND◆	35.20	29.92	27.72	PT6202N
7.0 ~ 26.0	3.3 @ 2.0	—	6.6	TH	Horizontal	PT6203A-ND◆	35.20	29.92	27.72	PT6203A
7.0 ~ 26.0	3.3 @ 2.0	—	6.6	TH	Vertical	PT6203N-ND◆	35.20	29.92	27.72	PT6203N
14.5 ~ 30.0	12.0 @ 2.0	—	24.0	TH	Horizontal	PT6204A-ND◆	35.20	29.92	27.72	PT6204A
14.5 ~ 30.0	12.0 @ 2.0	—	24.0	TH	Vertical	PT6204N-ND◆	35.20	29.92	27.72	PT6204N
9.0 ~ 38.0	5.0 @ 2.0	—	10.0	TH	Horizontal	PT6212D-ND◆	25.92	22.04	20.42	PT6212D
9.0 ~ 38.0	5.0 @ 2.0	—	10.0	SMT	Horizontal	PT6212E-ND◆	25.92	22.04	20.42	PT6212E
9.0 ~ 38.0	5.0 @ 2.0	—	10.0	TH	Vertical	PT6212P-ND◆	25.92	22.04	20.42	PT6212P
9.0 ~ 26.0	3.3 @ 2.0	—	6.6	TH	Horizontal	PT6213D-ND◆	20.74	17.63	16.34	PT6213D
9.0 ~ 26.0	3.3 @ 2.0	—	6.6	SMT	Horizontal	PT6213E-ND◆	26.94	22.90	21.22	PT6213E
9.0 ~ 26.0	3.3 @ 2.0	—	6.6	TH	Vertical	PT6213P-ND◆	26.94	22.90	21.22	PT6213P
16.0 ~ 38.0	12.0 @ 2.0	—	24.0	TH	Horizontal	PT6214D-ND◆	26.94	22.90	21.22	PT6214D
16.0 ~ 38.0	12.0 @ 2.0	—	24.0	SMT	Horizontal	PT6214E-ND	26.94	22.90	21.22	PT6214E
16.0 ~ 38.0	12.0 @ 2.0	—	24.0	TH	Vertical	PT6214P-ND◆	26.94	22.90	21.22	PT6214P
9.0 ~ 38.0	5.0 @ 3.0	—	15.0	TH	Horizontal	PT6302A-ND	23.30	19.81	18.35	PT6302A
9.0 ~ 38.0	5.0 @ 3.0	—	15.0	SMT	Horizontal	PT6302C-ND	23.30	19.81	18.35	PT6302C
9.0 ~ 38.0	5.0 @ 3.0	—	15.0	TH	Vertical	PT6302N-ND	23.30	19.81	18.35	PT6302N
9.0 ~ 26.0	3.3 @ 3.0	—	9.9	TH	Horizontal	PT6303A-ND◆	30.26	25.73	23.83	PT6303A
9.0 ~ 26.0	3.3 @ 3.0	—	9.9	SMT	Horizontal	PT6303C-ND◆	30.26	25.73	23.83	PT6303C
9.0 ~ 26.0	3.3 @ 3.0	—	9.9	TH	Vertical	PT6303N-ND◆	30.26	25.73	23.83	PT6303N
16.0 ~ 38.0	12.0 @ 3.0	—	36.0	TH	Horizontal	PT6304A-ND◆	30.26	25.73	23.83	PT6304A
16.0 ~ 38.0	12.0 @ 3.0	—	36.0	SMT	Horizontal	PT6304C-ND◆	30.26	25.73	23.83	PT6304C
16.0 ~ 38.0	12.0 @ 3.0	—	36.0	TH	Vertical	PT6304N-ND◆	30.26	25.73	23.83	PT6304N
9.0 ~ 28.0	3.3 @ 5.0	—	16.5	TH	Vertical	PT6651P-ND	45.92	39.72	37.23	PT6651P
9.0 ~ 28.0	5.0 @ 5.0	—	25.0	TH	Horizontal	PT6653D-ND◆	45.92	39.72	37.23	PT6653D
9.0 ~ 28.0	5.0 @ 5.0	—	25.0	SMT	Horizontal	PT6653E-ND◆	45.92	39.72	37.23	PT6653E
9.0 ~ 28.0	5.0 @ 5.0	—	25.0	TH	Vertical	PT6653P-ND◆	45.92	39.72	37.23	PT6653P
15.0 ~ 28.0	12.0 @ 5.0	—	60.0	TH	Horizontal	PT6656D-ND◆	45.92	39.72	37.23	PT6656D
15.0 ~ 28.0	12.0 @ 5.0	—	60.0	TH	Vertical	PT6656P-ND◆	45.92	39.72	37.23	PT6656P
15.0 ~ 33.0	3.3 @ 5.0	—	16.5	TH	Horizontal	296-20207-ND	44.73	38.69	36.27	PT6881A
15.0 ~ 33.0	3.3 @ 5.0	—	16.5	SMT	Horizontal	296-20208-ND	44.73	38.69	36.27	PT6881C
15.0 ~ 33.0	3.3 @ 5.0	—	16.5	TH	Vertical	296-20209-ND	44.73	38.69	36.27	PT6881N
15.0 ~ 36.0	5.0 @ 5.0	—	25.0	TH	Horizontal	PT6883A-ND◆	44.73	38.69	36.27	PT6883A
15.0 ~ 36.0	5.0 @ 5.0	—	25.0	SMT	Horizontal	296-20210-ND◆	44.73	38.69	36.27	PT6883C
15.0 ~ 36.0	5.0 @ 5.0	—	25.0	TH	Vertical	296-20211-ND	44.73	38.69	36.27	PT6883N
18.0 ~ 36.0	9.0 @ 5.0	—	45.0	TH	Horizontal	296-20212-ND	44.73	38.69	36.27	PT6884A
18.0 ~ 36.0	9.0 @ 5.0	—	45.0	SMT	Horizontal	296-20213-ND	44.73	38.69	36.27	PT6884C
18.0 ~ 36.0	9.0 @ 5.0	—	45.0	TH	Vertical	296-20214-ND	32.30	27.46	25.44	PT6884N
18.0 ~ 36.0	15.0 @ 4.0	—	60.0	TH	Horizontal	PT6885A-ND◆	44.73	38.69	36.27	PT6885A
18.0 ~ 36.0	15.0 @ 4.0	—	60.0	SMT	Horizontal	296-20215-ND	44.73	38.69	36.27	PT6885C
18.0 ~ 36.0	15.0 @ 4.0	—	60.0	TH	Vertical	296-20216-ND	44.73	38.69	36.27	PT6885N
18.0 ~ 36.0	12.0 @ 5.0	—	60.0	TH	Horizontal	PT6886A-ND◆	44.73	38.69	36.27	PT6886A
18.0 ~ 36.0	12.0 @ 5.0	—	60.0	SMT	Horizontal	PT6886C-ND	44.73	38.69	36.27	PT6886C
18.0 ~ 36.0	12.0 @ 5.0	—	60.0	TH	Vertical	296-20217-ND◆	44.73	38.69	36.27	PT6886N
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	—	33.0	TH	Horizontal	296-20503-ND◆	20.00	17.00	15.75	PTN78000HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	—	33.0	SMT	Horizontal	296-20504-ND	20.00	17.00	15.75	PTN78000HAS
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	—	33.0	SMT	Horizontal	296-20505-ND◆	20.00	17.00	15.75	PTN78000HAZ
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	—	90.0	TH	Horizontal	296-20512-ND◆	37.50	31.88	29.54	PTN78020HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	—	90.0	SMT	Horizontal	296-20513-ND	37.50	31.88	29.54	PTN78020HAS
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	—	90.0	SMT	Horizontal	296-20514-ND◆	37.50	31.88	29.54	PTN78020HAZ
15.0 ~ 36.0	11.85 ~ 22.0 @ 3.0	—	45.0	TH	Horizontal	296-20521-ND◆	27.50	23.38	21.66	PTN78060HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 3.0	—	45.0	SMT	Horizontal	296-20522-ND	27.50	23.38	21.66	PTN78060HAS
Wide Input										
7.0 ~ 28.0	5.0 @ 2.0	—	10.0	TH	Horizontal	78HT205HC-ND◆	39.79	34.42	32.27	78HT205HC
7.0 ~ 28.0	5.0 @ 2.0	—	10.0	TH	Vertical	78HT205VC-ND	39.79	34.42	32.27	78HT205VC

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)		Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2					1	25	100	
7.0 ~ 15.0	3.3 @ 2.0	—	6.6	TH	Horizontal	78HT233HC-ND◆	39.79	34.42	32.27	78HT233HC
7.0 ~ 15.0	3.3 @ 2.0	—	6.6	TH	Vertical	78HT233VC-ND◆	39.79	34.42	32.27	78HT233VC
7.0 ~ 30.0	5.0 @ 1.5	—	7.5	TH	Horizontal	78SR105HC-ND	27.62	23.48	21.76	78SR105HC
7.0 ~ 30.0	5.0 @ 1.5	—	7.5	SMT	Horizontal	78SR105SC-ND◆	27.62	23.48	21.76	78SR105SC
7.0 ~ 30.0	5.0 @ 1.5	—	7.5	TH	Vertical	78SR105VC-ND◆	27.62	23.48	21.76	78SR105VC
14.5 ~ 30.0	6.0 @ 1.5	—	9.0	TH	Horizontal	78SR106HC-ND◆	35.96	30.57	28.32	78SR106HC
14.5 ~ 30.0	8.0 @ 1.5	—	12.0	TH	Horizontal	78SR108HC-ND◆	35.96	30.57	28.32	78SR108HC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	TH	Horizontal	78SR112HC-ND◆	35.96	30.57	28.32	78SR112HC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	SMT	Horizontal	78SR112SC-ND◆	35.96	30.57	28.32	78SR112SC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	TH	Vertical	78SR112VC-ND◆	35.96	30.57	28.32	78SR112VC
14.5 ~ 30.0	15.0 @ 1.5	—	22.5	TH	Horizontal	78SR115HC-ND◆	35.96	30.57	28.32	78SR115HC
14.5 ~ 30.0	15.0 @ 1.5	—	22.5	TH	Vertical	78SR115VC-ND◆	35.96	30.57	28.32	78SR115VC
7.0 ~ 30.0	5.0 @ 1.5	—	7.5	TH	Horizontal	78ST105HC-ND◆	35.96	30.57	28.32	78ST105HC
7.0 ~ 30.0	5.0 @ 1.5	—	7.5	TH	Vertical	78ST105VC-ND	35.96	30.57	28.32	78ST105VC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	TH	Horizontal	78ST112HC-ND◆	35.96	30.57	28.32	78ST112HC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	SMT	Horizontal	78ST112SC-ND◆	35.96	30.57	28.32	78ST112SC
14.5 ~ 30.0	12.0 @ 1.5	—	18.0	TH	Vertical	78ST112VC-ND◆	35.96	30.57	28.32	78ST112VC
7.0 ~ 26.0	3.3 @ 1.5	—	5.0	TH	Horizontal	78ST133HC-ND◆	35.96	30.57	28.32	78ST133HC
7.0 ~ 26.0	3.3 @ 1.5	—	5.0	SMT	Horizontal	78ST133SC-ND◆	35.96	30.57	28.32	78ST133SC
7.0 ~ 26.0	3.3 @ 1.5	—	5.0	TH	Vertical	78ST133VC-ND◆	35.96	30.57	28.32	78ST133VC
8.0 ~ 20.0	5.0 @ 2.0	—	10.0	TH	Horizontal	78ST205HC-ND◆	39.79	34.42	32.27	78ST205HC
8.0 ~ 20.0	5.0 @ 2.0	—	10.0	TH	Vertical	78ST205VC-ND◆	39.79	34.42	32.27	78ST205VC
14.5 ~ 28.0	12.0 @ 2.0	—	24.0	TH	Horizontal	78ST212HC-ND	51.26	44.34	41.57	78ST212HC
14.5 ~ 28.0	12.0 @ 2.0	—	24.0	TH	Vertical	78ST212VC-ND	51.26	44.34	41.57	78ST212VC
9.0 ~ 28.0	5.0 @ 2.0	—	10.0	TH	Horizontal	PT78HT205H-ND◆	21.60	18.36	17.01	PT78HT205H
9.0 ~ 28.0	5.0 @ 2.0	—	10.0	SMT	Horizontal	PT78HT205S-ND◆	21.60	18.36	17.01	PT78HT205S
9.0 ~ 28.0	5.0 @ 2.0	—	10.0	TH	Vertical	PT78HT205V-ND◆	21.60	18.36	17.01	PT78HT205V
12.0 ~ 28.0	8.0 @ 2.0	—	16.0	TH	Horizontal	296-20250-ND◆	21.60	18.36	17.01	PT78HT208H
12.0 ~ 28.0	8.0 @ 2.0	—	16.0	SMT	Horizontal	296-20251-ND◆	21.60	18.36	17.01	PT78HT208S
9.0 ~ 15.0	3.3 @ 2.0	—	6.6	TH	Horizontal	PT78HT233H-ND◆	21.60	18.36	17.01	PT78HT233H
9.0 ~ 15.0	3.3 @ 2.0	—	6.6	SMT	Horizontal	PT78HT233S-ND◆	21.60	18.36	17.01	PT78HT233S
9.0 ~ 28.0	5.25 @ 2.0	—	10.5	TH	Horizontal	296-20252-ND◆	21.60	18.36	17.01	PT78HT253H
9.0 ~ 28.0	5.25 @ 2.0	—	10.5	SMT	Horizontal	296-20253-ND◆	21.60	18.36	17.01	PT78HT253S
9.0 ~ 28.0	5.25 @ 2.0	—	10.5	TH	Vertical	296-20254-ND◆	21.60	18.36	17.01	PT78HT253V
10.5 ~ 28.0	6.5 @ 2.0	—	13.0	SMT	Horizontal	296-20255-ND	21.60	18.36	17.01	PT78HT265S
10.5 ~ 28.0	6.5 @ 2.0	—	13.0	TH	Vertical	296-20256-ND◆	21.60	18.36	17.01	PT78HT265V
7.0 ~ 25.0	-3.0 @ 1.0	—	3.0	TH	Horizontal	296-20257-ND	19.03	16.01	14.71	PT78NR103H
7.0 ~ 25.0	-3.0 @ 1.0	—	3.0	SMT	Horizontal	296-20258-ND◆	19.03	16.01	14.71	PT78NR103S
7.0 ~ 25.0	-3.0 @ 1.0	—	3.0	TH	Vertical	296-20259-ND	19.03	16.01	14.71	PT78NR103V
7.0 ~ 25.0	-5.0 @ 1.0	—	5.0	TH	Horizontal	PT78NR105H-ND◆	19.03	16.01	14.71	PT78NR105H
7.0 ~ 25.0	-5.0 @ 1.0	—	5.0	SMT	Horizontal	PT78NR105S-ND◆	19.03	16.01	14.71	PT78NR105S
7.0 ~ 25.0	-5.0 @ 1.0	—	5.0	TH	Vertical	PT78NR105V-ND◆	19.03	16.01	14.71	PT78NR105V
7.0 ~ 21.0	-6.0 @ 0.8	—	4.8	TH	Vertical	296-20260-ND	19.03	16.01	14.71	PT78NR106V
7.0 ~ 21.0	-9.0 @ 0.55	—	5.0	TH	Horizontal	296-20261-ND◆	19.03	16.01	14.71	PT78NR109H
7.0 ~ 21.0	-9.0 @ 0.55	—	5.0	SMT	Horizontal	296-20262-ND	19.03	16.01	14.71	PT78NR109S
7.0 ~ 18.0	-12.0 @ 0.4	—	4.8	TH	Horizontal	PT78NR112H-ND◆	21.60	18.36	17.01	PT78NR112H
7.0 ~ 18.0	-12.0 @ 0.4	—	4.8	SMT	Horizontal	PT78NR112S-ND◆	21.60	18.36	17.01	PT78NR112S
7.0 ~ 18.0	-12.0 @ 0.4	—	4.8	TH	Vertical	PT78NR112V-ND	21.60	18.36	17.01	PT78NR112V
7.0 ~ 15.0	-15.0 @ 0.3	—	4.5	TH	Horizontal	296-20263-ND◆	19.03	16.01	14.71	PT78NR115H
7.0 ~ 15.0	-15.0 @ 0.3	—	4.5	SMT	Horizontal	296-20264-ND◆	19.03	16.01	14.71	PT78NR115S
7.0 ~ 15.0	-15.0 @ 0.3	—	4.5	TH	Vertical	296-20265-ND◆	19.03	16.01	14.71	PT78NR115V
7.0 ~ 25.0	-5.2 @ 1.0	—	5.2	TH	Horizontal	296-20266-ND◆	19.03	16.01	14.71	PT78NR152H
7.0 ~ 25.0	-5.2 @ 1.0	—	5.2	SMT	Horizontal	296-20267-ND◆	19.03	16.01	14.71	PT78NR152S
7.0 ~ 25.0	-5.2 @ 1.0	—	5.2	TH	Vertical	296-20268-ND	19.03	16.01	14.71	PT78NR152V
9.0 ~ 38.0	5.0 @ 1.5	—	7.5	TH	Horizontal	PT78ST105H-ND◆	19.03	16.01	14.71	PT78ST105H
9.0 ~ 38.0	5.0 @ 1.5	—	7.5	SMT	Horizontal	PT78ST105S-ND◆	19.03	16.01	14.71	PT78ST105S
9.0 ~ 38.0	5.0 @ 1.5	—	7.5	TH	Vertical	PT78ST105V-ND◆	19.03	16.01	14.71	PT78ST105V
10.0 ~ 38.0	6.0 @ 1.5	—	9.0	SMT	Horizontal	296-20277-ND◆	21.60	18.36	17.01	PT78ST106S
10.0 ~ 38.0	6.0 @ 1.5	—	9.0	TH	Vertical	PT78ST106V-ND◆	21.60	18.36	17.01	PT78ST106V
11.0 ~ 38.0	7.0 @ 1.5	—	10.5	TH	Horizontal	296-20278-ND◆	21.60	18.36	17.01	PT78ST107H
11.0 ~ 38.0	7.0 @ 1.5	—	10.5	SMT	Horizontal	296-20279-ND◆	21.60	18.36	17.01	PT78ST107S
12.0 ~ 38.0	8.0 @ 1.5	—	12.0	TH	Horizontal	296-20280-ND◆	19.03	16.01	14.71	PT78ST108H
12.0 ~ 38.0	8.0 @ 1.5	—	12.0	SMT	Horizontal	296-20281-ND◆	19.03	16.01	14.71	PT78ST108S
12.0 ~ 38.0	8.0 @ 1.5	—	12.0	TH	Vertical	296-20282-ND◆	19.03	16.01	14.71	PT78ST108V
13.0 ~ 38.0	9.0 @ 1.5	—	13.5	TH	Horizontal	PT78ST109H-ND	19.03	16.01	14.71	PT78ST109H
13.0 ~ 38.0	9.0 @ 1.5	—	13.5	SMT	Horizontal	296-20283-ND	19.03	16.01	14.71	PT78ST109S
13.0 ~ 38.0	9.0 @ 1.5	—	13.5	TH	Vertical	296-20284-ND	19.03	16.01	14.71	PT78ST109V
14.0 ~ 38.0	10.0 @ 1.5	—	15.0	SMT	Horizontal	296-20285-ND◆	19.03	16.01	14.71	PT78ST110S
14.0 ~ 38.0	10.0 @ 1.5	—	15.0	TH	Vertical	296-20286-ND	19.03	16.01	14.71	PT78ST110V
16.0 ~ 38.0	12.0 @ 1.5	—	18.0	TH	Horizontal	PT78ST112H-ND◆	21.60	18.36	17.01	PT78ST112H
16.0 ~ 38.0	12.0 @ 1.5	—	18.0	SMT	Horizontal	PT78ST112S-ND◆	21.60	18.36	17.01	PT78ST112S
16.0 ~ 38.0	12.0 @ 1.5	—	18.0	TH	Vertical	PT78ST112V-ND◆	21.60	18.36	17.01	PT78ST112V
17.9 ~ 38.0	13.9 @ 1.5	—	20.9	SMT	Horizontal	296-20288-ND	21.60	18.36	17.01	PT78ST114S
17.9 ~ 38.0	13.9 @ 1.5	—	20.9	TH	Vertical	296-20289-ND◆	21.60	18.36	17.01	PT78ST114V
19.0 ~ 38.0	15.0 @ 1.5	—	22.5	TH	Horizontal	PT78ST115H-ND◆	21.60	18.36	17.01	PT78ST115H
19.0 ~ 38.0	15.0 @ 1.5	—	22.5	SMT	Horizontal	296-20290-ND◆	21.60	18.36	17.01	PT78ST115S
9.0 ~ 26.0	3.3 @ 1.5	—	5.0	TH	Horizontal	PT78ST133H-ND◆	19.03	16.01	14.71	PT78ST133H
9.0 ~ 26.0	3.3 @ 1.5	—	5.0	SMT	Horizontal	PT78ST133S-ND	19.03	16.01	14.71	PT78ST133S
9.0 ~ 26.0	3.3 @ 1.5	—	5.0	TH	Vertical	PT78ST133V-ND◆	19.03	16.01	14.71	PT78ST133V
9.25 ~ 38.0	5.25 @ 1.5	—	7.9	SMT	Horizontal	296-20291-ND◆	19.03	16.01	14.71	PT78ST153S
9.25 ~ 38.0	5.25 @ 1.5	—	7.9	TH	Vertical	296-20292-ND◆	19.03	16.01	14.71	PT78ST153V
10.5 ~ 38.0	6.5 @ 1.5	—	9.8	SMT	Horizontal	296-20293-ND	19.03	16.01	14.71	PT78ST165S
10.5 ~ 38.0	6.5 @ 1.5	—	9.8	TH	Vertical	296-20294-ND	19.03	16.01	14.71	PT78ST165V
16.0 ~ 28.0	12.0 @ 2.0	—	24.0	TH	Vertical	PT78ST212V-ND◆	32.60	27.71	25.68	PT78ST212V
-9.0 ~ -30.0	-5.0 @ 1.5	—	7.5	TH	Horizontal	PT79SR105H-ND◆	28.00	23.80	22.05	PT79SR105H
-9.0 ~ -30.0	-5.0 @ 1.5	—	7.5	SMT	Horizontal	PT79SR105S-ND	28.00	23.80	22.05	PT79SR105S
-9.0 ~ -30.0	-5.0 @ 1.5	—	7.5	TH	Vertical	PT79SR105V-ND	27.00	22.95	21.27	PT79SR105V
-13.0 ~ -30.0	-9.0 @ 1.5	—	13.5	TH	Horizontal	296-20295-ND	22.60	19.21	17.80	PT79SR109H
-13.0 ~ -30.0	-9.0 @ 1.5	—	13.5	SMT	Horizontal	296-20296-ND	22.60	19.21	17.80	PT79SR109S
-16.0 ~ -30.0	-12.0 @ 1.5	—	18.0	TH	Horizontal	PT79SR112H-ND	28.00	23.80	22.05	PT79SR112H
-16.0 ~ -30.0	-12.0 @ 1.5	—	18.0	SMT	Horizontal	296-20297-ND	28.00	23.80	22.05	PT79SR112S
-16.0 ~ -30.0	-12.0 @ 1.5	—	18.0	TH	Vertical	PT79SR112V-ND	27.00	22.95	21.27	PT79SR112V
-19.0 ~ -30.0	-15.0 @ 1.5	—	22.5	TH	Horizontal	296-20298-ND◆	28.00	23.80	22.05	PT79SR115H
-19.0 ~ -30.0	-15.0 @ 1.5	—	22.5	SMT	Horizontal	296-20299-ND	28.00	23.80	22.05	PT79SR115S
-19.0 ~ -30.0	-15.0 @ 1.5	—	22.5	TH	Vertical	296-20300-ND◆	27.00	22.95	21.27	PT79SR115V
-9.2 ~ -30.0	-5.2 @ 1.5	—	7.8	TH	Horizontal	296-20301-ND	28.00	23.80	22.05	PT79SR152H
-9.2 ~ -30.0	-5.2 @ 1.5	—	7.8	SMT	Horizontal	296-20302-ND◆	28.00	23.80	22.05	PT79SR152S
-9.2 ~ -30.0	-5.2 @ 1.5	—	7.8	TH	Vertical	296-20303-ND◆	27.00	22.95	21.27	PT79SR152V
4.75 ~ 14.0	0.7 ~ 3.6 @ 20.0	—	72.0	TH	Horizontal	296-23227-ND◆	25.80	21.93	20.32	PTD08A020WAD

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

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DC-DC µModule® Regulator Family

Resembling a surface mount IC, Linear Technology's line of µModule (LTM) regulators are complete power solutions containing the controller, power MOSFETs, compensation and inductors in a compact thermally efficient surface mount LGA package. Built with the highest quality standards in the industry and rigorously tested, the µModule regulator family dramatically reduces the amount of time and effort needed to successfully design DC/DC power solutions. **Temperature Grade:** E-grade devices are tested to meet performance specifications over the 0°C to Tmax listed with performance down to -40°C guaranteed by design, characterization and statistical process controls. I-grade devices are tested to meet performance specifications over the -40°C to Tmax listed. MP-grade devices are 100% tested at -55°C and +125°C and must pass 100% post-test visual screening.

Land Grid Array (LGA) Package — Dimensions in mm

Package A	Package B	Package C	Package D	Package F	Package G
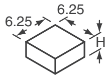	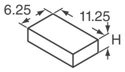	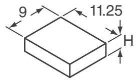	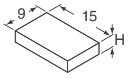	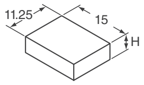	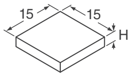

V_{in}		V_{out}		Output Current (A)	Remote V_{out} Sense Amp	V_{out} Tracking	Temperature Grade	Package Size (Height) - mm	Digi-Key Part No.	Price Each		
Min.	Max.	Min.	Max.							1	25	100
Single Output Step-Down Regulator for Low Voltage Input Supply												
1.5	5.5	0.8	5	15	Yes	Yes	E (125°C)	G (4.3mm)	LTM4611EV#PBF-ND ***NEW!***	41.33	27.79	23.62
				15	Yes	Yes	I (125°C)	G (4.3mm)	LTM4611IV#PBF-ND ***NEW!***	45.48	30.57	26.00
2.375	5.5	0.8	5	4	No	Yes	E (125°C)	D (2.3)	LTM4604AEV#PBF-ND	18.08	12.14	10.32
				4	No	Yes	I (125°C)	D (2.3)	LTM4604AIV#PBF-ND	19.88	13.36	11.35
				4	No	Yes	E (85°C)	D (2.3)	LTM4604EV#PBF-ND	18.08	12.90	10.63
2.7	5.5	0.6	5	8	No	Yes	E (125°C)	D (2.8)	LTM4608AEV#PBF-ND	24.03	16.14	13.72
				8	No	Yes	I (125°C)	D (2.8)	LTM4608AIV#PBF-ND	26.43	17.76	15.09
				8	No	Yes	MP (125°C)	D (2.8)	LTM4608AMPV#PBF-ND ***NEW!***	47.28	31.79	27.02
				8	No	Yes	I (85°C)	D (2.8)	LTM4608IV#PBF-ND	26.43	18.86	15.53
Multiple Output Step-Down Regulator for Low Voltage Input Supply												
2.375	5.5	0.8	5	Dual 4	No	Yes	E (125°C)	G (2.8)	LTM4614EV#PBF-ND ***NEW!***	32.95	22.14	18.82
				Dual 4	No	Yes	I (125°C)	G (2.8)	LTM4614IV#PBF-ND ***NEW!***	36.23	24.36	20.70
2.375	5.5	0.6	5	Dual 8	No	Yes	E (125°C)	G (2.8)	LTM4616EV#PBF-ND	41.33	27.79	23.62
				Dual 8	No	Yes	I (125°C)	G (2.8)	LTM4616IV#PBF-ND	45.48	30.57	26.00
2.7	5.5	0.8	5	Triple: Dual 4 + LDO	No	Yes	E (125°C)	G (2.8)	LTM4615EV#PBF-ND ***NEW!***	36.55	24.57	20.89
				Triple: Dual 4 + LDO	No	Yes	I (125°C)	G (2.8)	LTM4615IV#PBF-ND ***NEW!***	40.20	27.03	22.97
Single Output Step-Down Regulator for Mid-Voltage Input Supply												
4.5	20	0.6	5	6	No	No	E (85°C)	G (2.8)	LTM4602EV#PBF-ND	25.40	18.14	14.94
				6	No	No	I (85°C)	G (2.8)	LTM4602IV#PBF-ND	27.95	19.96	16.44
				6	Yes	Yes	E (85°C)	G (2.8)	LTM4603EV#PBF-ND	28.70	20.49	16.88
				6	No	Yes	E (85°C)	G (2.8)	LTM4603EV-1#PBF-ND	27.53	19.66	16.19
				6	Yes	Yes	I (85°C)	G (2.8)	LTM4603IV#PBF-ND	31.55	22.54	18.56
				6	No	Yes	I (85°C)	G (2.8)	LTM4603IV-1#PBF-ND	30.28	21.63	17.82
				10	No	No	E (85°C)	G (2.8)	LTM4600EV#PBF-ND	31.25	22.32	18.38
				10	No	No	I (85°C)	G (2.8)	LTM4600IV#PBF-ND	34.43	24.59	20.25
				12	Yes	Yes	E (85°C)	G (2.8)	LTM4601AEV#PBF-ND	35.80	24.07	20.46
				12	Yes	Yes	I (85°C)	G (2.8)	LTM4601AIV#PBF-ND	39.40	26.49	22.51
				12	Yes	Yes	E (85°C)	G (2.8)	LTM4601EV#PBF-ND	35.13	25.05	20.63
				12	No	Yes	E (85°C)	G (2.8)	LTM4601EV-1#PBF-ND	33.90	24.21	19.94
				12	Yes	Yes	I (85°C)	G (2.8)	LTM4601IV#PBF-ND	38.58	27.55	22.69
				12	No	Yes	I (85°C)	G (2.8)	LTM4601IV-1#PBF-ND	37.30	26.64	21.94
4.5	26.5	0.8	5	6	No	Yes	E (125°C)	D (4.3)	LTM4618EV#PBF-ND ***NEW!***	24.03	16.14	13.72
				6	No	Yes	I (125°C)	D (4.3)	LTM4618IV#PBF-ND ***NEW!***	26.43	17.76	15.09
4.5	28	0.6	5	6	No	No	E (85°C)	G (2.8)	LTM4602HVEV#PBF-ND	30.98	22.13	18.23
				6	No	No	I (85°C)	G (2.8)	LTM4602HVIV#PBF-ND	34.10	24.36	20.06
				6	Yes	Yes	E (85°C)	G (2.8)	LTM4603HVEV#PBF-ND	35.00	24.99	20.59
				6	Yes	Yes	I (85°C)	G (2.8)	LTM4603HVIV#PBF-ND	36.93	26.38	21.74
				6	No	Yes	E (125°C)	G (2.8)	LTM4606EV#PBF-ND	35.08	23.57	20.04
				6	No	Yes	I (125°C)	G (2.8)	LTM4606IV#PBF-ND	38.58	25.93	22.05
				6	No	Yes	MP (125°C)	G (2.8)	LTM4606MPV#PBF-ND ***NEW!***	78.85	53.00	45.05
				10	No	No	E (85°C)	G (2.8)	LTM4600HVEV#PBF-ND	38.25	27.32	22.50
				10	No	No	I (85°C)	G (2.8)	LTM4600HVIV#PBF-ND	42.08	30.05	24.75
				10	No	No	MP (125°C)	G (2.8)	LTM4600HVMPV#PBF-ND ***NEW!***	78.53	52.15	39.27
				12	Yes	Yes	E (85°C)	G (2.8)	LTM4601AHVEV#PBF-ND	43.35	29.14	24.77
				12	Yes	Yes	I (85°C)	G (2.8)	LTM4601AHVIV#PBF-ND	47.68	32.06	27.26
				12	Yes	Yes	MP (125°C)	G (2.8)	LTM4601AHVMPV#PBF-ND	85.53	57.50	48.88
				12	Yes	Yes	E (85°C)	G (2.8)	LTM4601HVEV#PBF-ND	42.78	30.56	25.19
				12	Yes	Yes	I (85°C)	G (2.8)	LTM4601HVIV#PBF-ND	47.10	33.65	27.72
3.6	36	0.8	10	1	No	No	E (85°C)	C (2.8)	LTM8022EV#PBF-ND	10.50	7.07	5.82
				1	No	No	I (85°C)	C (2.8)	LTM8022IV#PBF-ND	16.25	10.93	9.29
				1	No	No	MP (125°C)	C (2.8)	LTM8022MPV#PBF-ND ***NEW!***	30.25	20.33	17.28
				2	No	No	E (85°C)	C (2.8)	LTM8023EV#PBF-ND	16.90	11.36	9.35
				2	No	No	I (85°C)	C (2.8)	LTM8023IV#PBF-ND	18.58	12.50	10.63
				2	No	No	MP (125°C)	C (2.8)	LTM8023MPV#PBF-ND	34.58	23.26	19.77
3.6	36	0.8	24	3	No	No	E (125°C)	D (4.3)	LTM8025EV#PBF-ND ***NEW!***	19.03	12.79	10.87
				3	No	No	I (125°C)	D (4.3)	LTM8025IV#PBF-ND ***NEW!***	20.93	14.07	11.96
				3	No	No	MP (125°C)	D (4.3)	LTM8025MPV#PBF-ND ***NEW!***	36.03	24.22	20.58
5.0	36	3.3	15	5	No	Yes	E (125°C)	G (2.8)	LTM4612EV#PBF-ND	42.28	28.42	24.15
				5	No	Yes	I (125°C)	G (2.8)	LTM4612IV#PBF-ND	46.50	31.26	26.57
				5	No	Yes	MP (125°C)	G (2.8)	LTM4612MPV#PBF-ND ***NEW!***	85.95	57.79	49.13
EN55022 Class B Certified Single Output Step-Down Regulator for Mid-Voltage Input Supply												
4.0	36	1.25	5	0.2	No	No	E (85°C)	A (2.3)	LTM8020EV#PBF-ND	10.50	7.07	5.82
				0.2	No	No	I (85°C)	A (2.3)	LTM8020IV#PBF-ND	11.58	7.79	6.62
				0.2	No	No	MP (125°C)	A (2.3)	LTM8020MPV#PBF-ND ***NEW!***	21.55	14.49	12.31
3.0	36	0.8	5	0.5	No	No	E (125°C)	B (2.8)	LTM8021EV#PBF-ND	12.43	8.36	6.88
				0.5	No	No	I (125°C)	B (2.8)	LTM8021IV#PBF-ND	13.68	9.20	7.82
3.6	36	0.8	10	1	No	No	E (125°C)	D (2.8)	LTM8031EV#PBF-ND ***NEW!***	21.13	14.22	12.08
				1	No	No	I (125°C)	D (2.8)	LTM8031IV#PBF-ND ***NEW!***	23.48	15.79	13.42
				1	No	No	MP (125°C)	D (2.8)	LTM8031MPV#PBF-ND ***NEW!***	47.60	32.00	27.30
				2	No	No	MP (125°C)	D (2.8)	LTM8032MPV#PBF-ND ***NEW!***	49.73	33.43	28.42
				2	No	No	E (125°C)	D (2.8)	LTM8032EV#PBF-ND ***NEW!***	23.25	15.64	13.30
3.6	36	0.8	24	3	No	No	E (125°C)	F (4.3)	LTM8033EV#PBF-ND ***NEW!***	25.38	17.07	14.51
				3	No	No	I (125°C)	F (4.3)	LTM8033IV#PBF-ND ***NEW!***	27.73	18.64	15.85
				3	No	No	MP (125°C)	F (4.3)	LTM8033MPV#PBF-ND ***NEW!***	51.85	34.86	29.63
NEW! Dual Output Step-Down Regulated Voltage for Mid-Voltage Input Supply NEW!												
4.5	26.5	0.8	5	Dual 4	No	Yes	E (125°C)	G (2.8)	LTM4619EV#PBF-ND	35.60	23.93	20.34
				Dual 4	No	Yes	I (125°C)	G (2.8)	LTM4619IV#PBF-ND	39.18	26.33	22.39
NEW! Single Output Step-Down Regulator for High Voltage Input Supply NEW!												
4.5	60	2.5	24	4	No	No	E (125°C)	G (4.3)	LTM8027EV#PBF-ND	35.08	23.57	20.04
				4	No	No	I (125°C)	G (4.3)	LTM8027IV#PBF-ND	38.58	25.93	22.05
				4	No	No	MP (125°C)	G (4.3)	LTM8027MPV#PBF-ND	72.25	48.57	41.29
Single Output Buck-Boost Regulator for Mid-Voltage Input Supply												
4.5	36	0.8	34	4	No	No	E (85°C)	G (2.8)	LTM4609EV#PBF-ND ***NEW!***	47.93	32.22	27.38
				4	No	No	MP (125°C)	G (2.8)	LTM4609MPV#PBF-ND ***NEW!***	79.05	53.14	45.18
4.5	20	0.8	16	5	No	No	E (85°C)	G (2.8)	LTM4605EV#PBF-ND	40.05	26.86	22.12
				5	No	No	I (85°C)	G (2.8)	LTM4605IV#PBF-ND	44.05	29.55	24.33
4.5	36	0.8	24	5	No	No	E (85°C)	G (2.8)	LTM4607EV#PBF-ND	45.80	30.79	25.35
				5	No	No	I (85°C)	G (2.8)	LTM4607IV#PBF-ND	50.38	33.87	27.89
Single Output Regulated Current/LED Driver for Mid-Voltage Input Supply												
4.0	36	2.5	13	1	No	No	E (125°C)	D (4.3)	LTM8040EV#PBF-ND	15.83	11.31	9.31

NEW! RECOM Econoline — DC/DC Converters

Features:

• High reliability • Maximum flexibility • Isolation voltages up to 6kVDC • Unregulated and regulated outputs • High efficiency • Micro-sized parts with standard pinouts • UL-60950, UL-60601, EN-60601 • Optional continuous short circuit protection for unregulated parts

Fig. 1

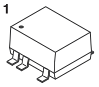

Fig. 2

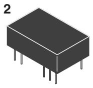

Fig. 3

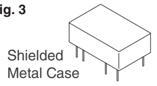

Fig. 4

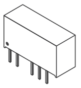

Fig. 5

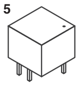

Fig. 6

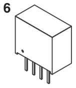

Fig.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
R1D & R1S Series — 1 Watt, Single and Dual Output								
1	5	±5	±100	945-1006-1-ND†	10.42	9.86	9.10	R1D-0505-R
	5	±5	±100	945-1006-2-ND‡	2605.63/500			R1D-0505-R
	5	±9	±56	945-1007-1-ND†	10.42	9.86	9.10	R1D-0509-R
	5	±9	±56	945-1007-2-ND‡	2605.63/500			R1D-0509-R
	5	±12	±42	945-1008-1-ND†	10.42	9.86	9.10	R1D-0512-R
	5	±12	±42	945-1008-2-ND‡	2605.63/500			R1D-0512-R
	5	±15	±33	945-1009-1-ND†	10.42	9.86	9.10	R1D-0515-R
	5	±15	±33	945-1009-2-ND‡	2605.63/500			R1D-0515-R
	5	±15	±33	945-1010-1-ND†	10.42	9.86	9.10	R1D10-0515-R
	5	±15	±33	945-1010-2-ND‡	2605.63/500			R1D10-0515-R
	12	±5	±100	945-1011-1-ND†	10.42	9.86	9.10	R1D-1205-R
	12	±5	±100	945-1011-2-ND‡	2605.63/500			R1D-1205-R
	12	±12	±42	945-1012-1-ND†	10.42	9.86	9.10	R1D-1212-R
	12	±12	±42	945-1012-2-ND‡	2605.63/500			R1D-1212-R
	5	5	200	945-1013-1-ND†	9.16	8.66	8.00	R1S-0505-R
	5	5	200	945-1013-2-ND‡	2289.38/500			R1S-0505-R
	5	12	84	945-1014-1-ND†	9.90	9.36	8.64	R1S-0512-R
	5	12	84	945-1014-2-ND‡	2475.00/500			R1S-0512-R
	5	15	66	945-1015-1-ND†	9.90	9.36	8.64	R1S-0515-R
	5	15	66	945-1015-2-ND‡	2475.00/500			R1S-0515-R
	12	5	200	945-1016-1-ND†	9.90	9.36	8.64	R1S-1205-R
	12	5	200	945-1016-2-ND‡	2475.00/500			R1S-1205-R
	12	12	84	945-1017-1-ND†	9.90	9.36	8.64	R1S-1212-R
	12	12	84	945-1017-2-ND‡	2475.00/500			R1S-1212-R
	3.3	5	200	945-1018-1-ND†	10.64	10.07	9.29	R1S-3.305-R
	3.3	5	200	945-1018-2-ND‡	2660.63/500			R1S-3.305-R
	3.3	3.3	303	945-1019-1-ND†	10.64	10.07	9.29	R1S-3.33.3-R
	3.3	3.3	303	945-1019-2-ND‡	2660.63/500			R1S-3.33.3-R
	5	5	200	945-1020-1-ND†	9.90	9.36	8.64	R1S8-0505-R
	5	5	200	945-1020-2-ND‡	2475.00/500			R1S8-0505-R
R2S Series — 2 Watt, Single Output								
1	5	5	400	945-1023-1-ND†	15.68	14.82	13.68	R2S-0505-R
	5	5	400	945-1023-2-ND‡	1959.38/250			R2S-0505-R
	12	5	400	945-1024-1-ND†	15.68	14.82	13.68	R2S-1205-R
	12	5	400	945-1024-2-ND‡	1959.38/250			R2S-1205-R
	12	12	167	945-1025-1-ND†	15.68	14.82	13.68	R2S-1212-R
	12	12	167	945-1025-2-ND‡	1959.38/250			R2S-1212-R
	24	5	400	945-1026-1-ND†	18.37	17.37	16.04	R2S-2405-R
	24	5	400	945-1026-2-ND‡	2296.25/250			R2S-2405-R
REC3 Series — 3 Watt, Single and Dual Output								
2	4.5 ~ 9	5	600	945-1154-ND	19.35	18.78	18.50	REC3-0505SRW/H4/A
	4.5 ~ 9	5	600	945-1155-ND	19.35	18.78	18.50	REC3-0505SRW/H4/C
	9 ~ 18	5	600	945-1156-ND	18.43	17.89	17.62	REC3-1205SRW/H4/A
	18 ~ 36	5	600	945-1157-ND	18.43	17.89	17.62	REC3-2405SRW/H4/A
	18 ~ 36	±12	±125	945-1158-ND	20.31	19.72	19.42	REC3-2412DRW/H4/A
	18 ~ 36	12	250	945-1159-ND	19.73	19.16	18.87	REC3-2412SRWZ/H4/A
	18 ~ 36	15	200	945-1160-ND	19.73	19.16	18.87	REC3-2415SRWZ/H4/A
	18 ~ 36	3.3	900	945-1161-ND	18.43	17.89	17.62	REC3-243.3SRW/H4/A
	36 ~ 72	5	600	945-1162-ND	20.74	20.14	19.83	REC3-4805SRWZ/H4/A
	36 ~ 72	12	250	945-1163-ND	20.74	20.14	19.83	REC3-4812SRWZ/H4/A
REC3.5 Series — 3.5 Watt, Single and Dual Output								
2	4.5 ~ 9	5	700	945-1146-ND	41.41	40.19	39.58	REC3.5-0505SRW/R10/A
	4.5 ~ 9	5	700	945-1147-ND	41.41	40.19	39.58	REC3.5-0505SRW/R10/C
	4.5 ~ 9	±12	±145	945-1148-ND	45.58	44.24	43.57	REC3.5-0512DRW/R10/A
	4.5 ~ 9	12	290	945-1149-ND	41.41	40.19	39.58	REC3.5-0512SRW/R10/A
	9 ~ 18	5	700	945-1150-ND	39.43	38.28	37.70	REC3.5-1205SRW/R10/A
	9 ~ 18	12	290	945-1151-ND	39.43	38.28	37.70	REC3.5-1212SRW/R10/A
	18 ~ 36	5	700	945-1152-ND	39.43	38.28	37.70	REC3.5-2405SRW/R10/A
	18 ~ 36	±12	±145	945-1153-ND	43.38	42.11	41.47	REC3.5-2412DRW/R10/A
REC5 Series — 5 Watt, Single and Dual Output								
2	4.5 ~ 9	5	1000	945-1164-ND	22.32	21.66	21.34	REC5-0505SRW/H4/A
	9 ~ 18	5	1000	945-1165-ND	21.24	20.61	20.30	REC5-1205SRW/H4/A
	9 ~ 18	±12	±210	945-1166-ND	23.37	22.69	22.34	REC5-1212DRW/H4/A
	9 ~ 18	12	420	945-1167-ND	21.24	20.61	20.30	REC5-1212SRW/H4/A
	18 ~ 36	5	1000	945-1168-ND	21.24	20.61	20.30	REC5-2405SRW/H4/A
	18 ~ 36	12	420	945-1169-ND	22.76	22.10	21.76	REC5-2412SRWZ/H4/A
	18 ~ 36	±15	±170	945-1170-ND	23.37	22.69	22.34	REC5-2415DRW/H4/A
	18 ~ 36	15	340	945-1171-ND	22.76	22.10	21.76	REC5-2415SRWZ/H4/A
	36 ~ 72	5	1000	945-1172-ND	23.90	23.20	22.85	REC5-4805SRWZ/H4/A
	36 ~ 72	12	420	945-1173-ND	23.90	23.20	22.85	REC5-4812SRWZ/H4/A
REC6 Series — 6 Watt, Single and Dual Output								
2	4.5 ~ 9	5	1000	945-1174-ND	45.58	44.24	43.57	REC6-0505SRW/R10/A
	4.5 ~ 9	5	1000	945-1175-ND	45.58	44.24	43.57	REC6-0505SRW/R10/C
	9 ~ 18	5	1000	945-1176-ND	43.38	42.11	41.47	REC6-1205SRW/R10/A
	9 ~ 18	±12	±250	945-1177-ND	47.73	46.33	45.63	REC6-1212DRW/R10/A
	9 ~ 18	12	500	945-1178-ND	43.38	42.11	41.47	REC6-1212SRW/R10/A
	18 ~ 36	5	1000	945-1179-ND	43.38	42.11	41.47	REC6-2405SRW/R10/A
	18 ~ 36	±15	±200	945-1180-ND	47.73	46.33	45.63	REC6-2415DRW/R10/A
REC7.5 Series — 7.5 Watt, Single and Dual Output								
3	18 ~ 36	±12	±312	945-1181-ND	25.31	24.57	24.20	REC7.5-2412DRW/H2/A/M
	18 ~ 36	12	625	945-1182-ND	23.14	22.46	22.13	REC7.5-2412SRW/H2/A/M
	18 ~ 36	±15	±250	945-1183-ND	25.31	24.57	24.20	REC7.5-2415DRW/H2/A/M
R05P, R12P, R24P Series — 1 Watt, Single Output								
4	5	5	200	945-1000-ND	11.13	10.81	10.65	R05P05S
	5	12	84	945-1001-ND	11.13	10.81	10.65	R05P12S
	12	12	84	945-1004-ND	11.13	10.81	10.65	R12P12S
	24	5	200	945-1021-ND	11.68	11.34	11.17	R24P05S
	24	12	84	945-1022-ND	11.68	11.34	11.17	R24P12S
R05P and R12P Series — 2 Watt, Single Output								
4	5	5	400	945-1002-ND	11.69	11.35	11.18	R05P205S
	5	9	222	945-1003-ND	11.69	11.35	11.18	R05P209S
	12	12	167	945-1005-ND	11.69	11.35	11.18	R12P212S
RB Series — 1 Watt, Single and Dual Output								
4	5	±5	±100	945-1102-ND	5.15	5.00	4.93	RB-0505D
	5	5	200	945-1103-ND	4.98	4.83	4.76	RB-0505S
	5	±9	±56	945-1104-ND	5.15	5.00	4.93	RB-0509D
	5	±12	±42	945-1105-ND	5.15	5.00	4.93	RB-0512D
	5	12	84	945-1106-ND	4.98	4.83	4.76	RB-0512S
	5	±15	±33	945-1107-ND	5.15	5.00	4.93	RB-0515D
	12	±5	±100	945-1108-ND	5.15	5.00	4.93	RB-1205D
	12	5	200	945-1109-ND	4.98	4.83	4.76	RB-1205S
	12	±12	±42	945-1110-ND	5.15	5.00	4.93	RB-1212D
	12	12	84	945-1111-ND	4.98	4.83	4.76	RB-1212S
	12	±15	±33	945-1112-ND	5.15	5.00	4.93	RB-1215D
	15	±15	±33	945-1113-ND	5.69	5.53	5.45	RB-1515D
	24	±12	±42	945-1114-ND	5.69	5.53	5.45	RB-2412D
	24	±15	±33	945-1115-ND	5.69	5.53	5.45	RB-2415D
RD Series — 2 Watt, Dual Output								
4	5	±5	±200	945-1136-ND	6.80	6.61	6.51	RD-0505D
	5	±12	±84	945-1137-ND	6.80	6.61	6.51	RD-0512D
	5	±15	±66	945-1138-ND	6.80	6.61	6.51	RD-0515D
	24	±12	±84	945-1139-ND	7.12	6.92	6.81	RD-2412D
	24	±15	±66	945-1140-ND	7.12	6.92	6.81	RD-2415D
RE Series — 1 Watt, Single Output								
4	5	5	200	945-1141-ND	4.98	4.83	4.76	RE-0505S
	5	12	83	945-1142-ND	4.98	4.83	4.76	RE-0512S
	12	5	200	945-1143-ND	4.98	4.83	4.76	RE-1205S
	12	12	83	945-1144-ND	4.98	4.83	4.76	RE-1212S
	24	5	200	945-1145-ND	5.41	5.25	5.17	RE-2405S
RH Series — 1 Watt, Dual Output								
4	5	±5	±100	945-1184-ND	6.82	6.62	6.52	RH-0505D
	5	±15	±33	945-1185-ND	6.82	6.62	6.52	RH-0515D
	12	±12	±42	945-1186-ND	6.82	6.62	6.52	RH-1212D
	24	±12	±42	945-1187-ND	7.17	6.96	6.86	RH-2412D
	24	±15	±33	945-1188-ND	7.17	6.96	6.86	RH-2415D
RI Series — 2 Watt, Single Output								
4	5	5	400	945-1189-ND	6.67	6.48	6.38	RI-0505S
	5	12	167	945-1190-ND	6.67	6.48	6.38	RI-0512S
	12	5	400	945-1191-ND	6.67	6.48	6.38	RI-1205S
	12	12	167	945-1192-ND	6.67	6.48	6.38	RI-1212S
	24	12	167	945-1193-ND	7.03	6.83	6.73	RI-2412S
RK Series — 1 Watt, Single Output								
4	5	5	200	945-1194-ND	6.34	6.15	6.06	RK-0505S
	5	12	84	945-1195-ND	6.34	6.15	6.06	RK-0512S
	5	15	66	945-1196-ND	6.34	6.15	6.06	RK-0515S
	12	5	200	945-1197-ND	6.34	6.15	6.06	RK-1205S
	12	12	84	945-1198-ND	6.34	6.15	6.06	RK-1212S
	15	5	200	945-1199-ND	6.66	6.47	6.37	RK-1505S
RKZ Series — 2 Watt, Single and Dual Output								
4	5	±5	±200	945-1200-ND	8.10	7.86	7.75	RKZ-0505D
	5	5	400	945-1201-ND	7.70	7.48	7.36	RKZ-0505S
	5	±12	±84	945-1202-ND	8.10	7.86	7.75	RKZ-0512D
	5	12	168	945-1203-ND	7.70	7.48	7.36	RKZ-0512S
	12	5	400	945-1204-ND	7.70	7.48	7.36	RKZ-1205S
	12	12	168	945-1205-ND	7.70	7.48	7.36	RKZ-1212S
RM Series — 0.25 Watt, Single Output								
4	5	5	50	945-1206-ND	4.98	4.83	4.76	RM-0505S
	5	12	21	945-1207-ND	4.98	4.83	4.76	RM-0512S
	12	5	50	945-1208-ND	4.98	4.83	4.76	RM-1205S
	12	12	21	945-1209-ND	4.98	4.83	4.76	RM-1212S
	24	5	50	945-1210-ND	5.41	5.25	5.17	RM-2405S
	24	3.3	76	945-1211-ND	5.41	5.25	5.17	RM-243.3S
	3.3	3.3	76	945-1212-ND	5.43	5.28	5.20	RM-3.33.3S
RP Series — 1 Watt, Single and Dual Output								
4	5	±5	±100	945-1234-ND	11.52	11.18	11.01	RP-0505D
	5	5	200	945-1235-ND	10.98	10.66	10.50	RP-0505S
	5	9	111	945-1236-ND	10.98	10.66	10.50	RP-0509S

† Cut Tape ‡ Tape and Reel

(Continued)

NEW! RECOM Econoline — DC/DC Converters *(Cont.)*

Fig.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
4	5	±12	±42	945-1237-ND	11.52	11.18	11.01	RP-0512D
	5	±15	±33	945-1238-ND	11.52	11.18	11.01	RP-0515D
	5	15	66	945-1239-ND	10.98	10.66	10.50	RP-0515S
	5	24	42	945-1240-ND	10.98	10.66	10.50	RP-0524S
	12	±12	±42	945-1253-ND	11.52	11.18	11.01	RP-1212D
	12	12	84	945-1254-ND	10.98	10.66	10.50	RP-1212S
	24	5	200	945-1273-ND	11.52	11.18	11.01	RP-2405S
RS Series — 2 Watt, Isolated, Single and Dual Output								
4	4.5 ~ 9	±5	±200	945-1308-ND	15.96	15.49	15.26	RS-0505D
	4.5 ~ 9	5	400	945-1309-ND	14.92	14.48	14.26	RS-0505S
	4.5 ~ 9	±12	±83	945-1310-ND	15.96	15.49	15.26	RS-0512D
	9 ~ 18	±5	±200	945-1311-ND	15.73	15.27	15.04	RS-1205D
	9 ~ 18	5	400	945-1312-ND	14.70	14.27	14.05	RS-1205S
	9 ~ 18	±12	±83	945-1313-ND	15.73	15.27	15.04	RS-1212D
	18 ~ 36	5	400	945-1314-ND	14.70	14.27	14.05	RS-2405S
	18 ~ 36	±12	±83	945-1315-ND	15.73	15.27	15.04	RS-2412D
	18 ~ 36	±15	±67	945-1316-ND	15.73	15.27	15.04	RS-2415D
	18 ~ 36	15	134	945-1317-ND	14.70	14.27	14.05	RS-2415S
	36 ~ 72	5	400	945-1325-ND	17.10	16.60	16.35	RS-4805S
RS3 Series — 3 Watt, Isolated, Single and Dual Output								
4	4.5 ~ 9	±5	±300	945-1318-ND	17.87	17.35	17.09	RS3-0505D
	4.5 ~ 9	5	600	945-1319-ND	16.71	16.22	15.97	RS3-0505S
	9 ~ 27	5	600	945-1320-ND	18.54	18.00	17.73	RS3-2405SZ
	9 ~ 27	12	250	945-1321-ND	18.54	18.00	17.73	RS3-2412SZ
	18 ~ 36	±15	±100	945-1322-ND	17.61	17.10	16.84	RS3-2415D
	20 ~ 60	5	600	945-1323-ND	20.50	19.90	19.60	RS3-4805SZ
	20 ~ 60	12	250	945-1324-ND	20.50	19.90	19.60	RS3-4812SZ
RSO Series — 1 Watt, Isolated, Single and Dual Output								
4	4.5 ~ 9	±5	±100	945-1326-ND	17.31	16.80	16.55	RSO-0505D
	4.5 ~ 9	5	200	945-1327-ND	15.73	15.27	15.04	RSO-0505S
	4.5 ~ 9	5	200	945-1328-ND	18.17	17.64	17.37	RSO-0505S/H3
	9 ~ 18	5	200	945-1329-ND	15.01	14.57	14.35	RSO-1205S
	18 ~ 36	5	200	945-1330-ND	14.70	14.27	14.05	RSO-2405S
	9 ~ 36	5	200	945-1331-ND	18.17	17.63	17.37	RSO-2405SZ/H3
	9 ~ 36	±12	±42	945-1332-ND	19.99	19.41	19.12	RSO-2412DZ/H3
	18 ~ 36	12	83	945-1333-ND	14.70	14.27	14.05	RSO-2412S
	9 ~ 36	12	83	945-1334-ND	18.17	17.63	17.37	RSO-2412SZ/H3
4	9 ~ 36	±15	±34	945-1335-ND	19.99	19.41	19.12	RSO-2415DZ/H3
	18 ~ 72	5	200	945-1336-ND	21.14	20.52	20.21	RSO-4805SZ/H3
	18 ~ 72	±12	±42	945-1337-ND	23.26	22.58	22.24	RSO-4812DZ/H3
	18 ~ 72	12	83	945-1338-ND	21.14	20.52	20.21	RSO-4812SZ/H3
	18 ~ 72	±15	±34	945-1339-ND	23.26	22.58	22.24	RSO-4815DZ/H3
RY Series — 1 Watt, Single and Dual Output								
4	5	±5	±100	945-1340-ND	10.08	9.78	9.64	RY-0505D
	5	5	200	945-1341-ND	8.75	8.50	8.37	RY-0505S
	5	±12	±42	945-1342-ND	10.08	9.78	9.64	RY-0512D
	5	12	84	945-1343-ND	8.75	8.50	8.37	RY-0512S
	5	±15	±33	945-1344-ND	10.08	9.78	9.64	RY-0515D
	12	5	200	945-1345-ND	8.75	8.50	8.37	RY-1205S
	24	5	200	945-1346-ND	9.18	8.91	8.78	RY-2405S
RNM Series — 1 Watt, Single Output								
5	5	5	200	945-1213-ND	5.89	5.72	5.64	RNM-0505S
	5	12	83	945-1214-ND	5.89	5.72	5.64	RNM-0512S
	5	3.3	303	945-1215-ND	5.89	5.72	5.64	RNM-053.3S
	12	5	200	945-1216-ND	5.89	5.72	5.64	RNM-1205S
	12	12	83	945-1217-ND	5.89	5.72	5.64	RNM-1212S
	3.3	5	200	945-1218-ND	6.54	6.35	6.25	RNM-3.305S
	3.3	3.3	303	945-1219-ND	6.54	6.35	6.25	RNM-3.33.3S
RO Series — 1 Watt, Single Output								
6	5	5	200	945-1220-ND	4.98	4.83	4.76	RO-0505S
	5	12	83	945-1221-ND	4.98	4.83	4.76	RO-0512S
	5	15	66	945-1222-ND	4.98	4.83	4.76	RO-0515S
	12	5	200	945-1223-ND	4.98	4.83	4.76	RO-1205S
	12	12	83	945-1224-ND	4.98	4.83	4.76	RO-1212S
	24	5	200	945-1225-ND	5.41	5.25	5.17	RO-2405S
	24	12	83	945-1226-ND	5.41	5.25	5.17	RO-2412S
	24	15	66	945-1227-ND	5.41	5.25	5.17	RO-2415S
	24	24	42	945-1228-ND	5.41	5.25	5.17	RO-2424S
	3.3	5	200	945-1229-ND	5.43	5.28	5.20	RO-3.305S
ROM Series — 1 Watt, Micro Size, Single Output								
6	5	5	200	945-1230-ND	6.09	5.92	5.83	ROM-0505S
	5	12	83	945-1231-ND	6.09	5.92	5.83	ROM-0512S
	12	5	200	945-1232-ND	6.09	5.92	5.83	ROM-1205S
	12	12	83	945-1233-ND	6.09	5.92	5.83	ROM-1212S

† Cut Tape ‡ Tape and Reel

Powerline — DC/DC and AC/DC Converters

DC/DC:

Features: • Single and Dual • Ultra wide input voltage range • Regulated outputs • Industry standard packages and pinouts • Micro-sized cases • International safety standards • Short circuit protection • Six-sided shielding • Optional heat sinks • Filter chokes available • UL-60950

AC/DC:

Features: • Universal AC/DC input voltage • Single, Dual and Triple regulated outputs • Low output ripple and noise • Micro size package style • Low quiescent current (Energy savings) • Short circuit protection with auto recovery • PCB or Panel/DIN mount (-ST) • International safety standards • UL/EN-60950 and UL-60601

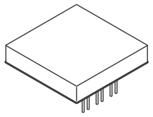

Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
DC/DC Converters							
RP08 Series — 8 Watt, Single and Dual Output							
9 ~ 36VDC	5	1600	945-1241-ND	44.38	43.07	42.42	RP08-2405SAW
9 ~ 36VDC	±12	±333	945-1242-ND	46.59	45.23	44.54	RP08-2412DAW
9 ~ 36VDC	15	533	945-1243-ND	44.38	43.07	42.42	RP08-2415SAW
9 ~ 36VDC	3.3	2400	945-1244-ND	44.38	43.07	42.42	RP08-243.3SAW
RP10 Series — 10 Watt, Single and Dual Output							
9 ~ 36VDC	±5	±1000	945-1245-ND	66.70	64.74	63.76	RP10-2405DEW
9 ~ 36VDC	5	2000	945-1246-ND	59.91	58.15	57.27	RP10-2405SEW
9 ~ 36VDC	±12	±416	945-1247-ND	66.70	64.74	63.76	RP10-2412DEW
9 ~ 36VDC	12	830	945-1248-ND	59.91	58.15	57.27	RP10-2412SEW
9 ~ 36VDC	±15	±333	945-1249-ND	66.70	64.74	63.76	RP10-2415DEW
18 ~ 75VDC	5	2000	945-1250-ND	59.91	58.15	57.27	RP10-4805SEW
18 ~ 75VDC	±12	±416	945-1251-ND	66.70	64.74	63.76	RP10-4812DEW
18 ~ 75VDC	12	830	945-1252-ND	59.91	58.15	57.27	RP10-4812SEW
RP12 Series — 12 Watt, Single and Dual Output							
9 ~ 36VDC	5.1	2400	945-1255-ND	55.47	53.84	53.03	RP12-2405SAW
9 ~ 36VDC	12	1000	945-1256-ND	55.47	53.84	53.03	RP12-2412SAW
9 ~ 36VDC	±15	±400	945-1257-ND	58.35	56.64	55.78	RP12-2415DAW
18 ~ 75VDC	5.1	2400	945-1258-ND	55.47	53.84	53.03	RP12-4805SAW
RP15 Series — 15 Watt, Single and Dual Output							
9 ~ 36VDC	5	3000	945-1259-ND	48.93	47.49	46.77	RP15-2405SAW
9 ~ 36VDC	±12	±625	945-1260-ND	68.76	66.74	65.73	RP15-2412DAW
9 ~ 36VDC	12	1300	945-1261-ND	48.93	47.49	46.77	RP15-2412SAW
9 ~ 36VDC	±15	±500	945-1262-ND	68.76	66.74	65.73	RP15-2415DAW
9 ~ 36VDC	3.3	4000	945-1263-ND	62.51	60.68	59.76	RP15-243.3SAW
18 ~ 75VDC	5	3000	945-1264-ND	62.51	60.68	59.76	RP15-4805SAW
18 ~ 75VDC	±12	±625	945-1267-ND	68.76	66.74	65.73	RP15-4812DAW
18 ~ 75VDC	12	1300	945-1268-ND	62.51	60.68	59.76	RP15-4812SAW
18 ~ 75VDC	±15	±500	945-1269-ND	68.76	66.74	65.73	RP15-4815DAW
18 ~ 75VDC	3.3	4000	945-1270-ND	62.51	60.68	59.76	RP15-483.3SAW
RP15 Series — 15 Watt, Single Output							
18 ~ 75VDC	5	3000	945-1265-ND	63.76	61.89	60.95	RP15-4805SOFW
18 ~ 75VDC	5	3000	945-1266-ND§	69.96	67.91	66.88	RP15-4805SOFW/N
18 ~ 75VDC	3.3	4000	945-1271-ND	63.76	61.89	60.95	RP15-483.3SOFW
18 ~ 75VDC	3.3	4000	945-1272-ND§	69.96	67.91	66.88	RP15-483.3SOFW/N
RP30 Series — 30 Watt, Single and Dual Output							
9 ~ 36VDC	5	6000	945-1274-ND	80.91	78.53	77.34	RP30-2405SFW
9 ~ 36VDC	12	2500	945-1275-ND	80.91	78.53	77.34	RP30-2412SFW
9 ~ 36VDC	±15	±1000	945-1276-ND	103.37	100.33	98.81	RP30-2415DFW
18 ~ 75VDC	5	6000	945-1277-ND	80.91	78.53	77.34	RP30-4805SFW
18 ~ 75VDC	12	2500	945-1278-ND	80.91	78.53	77.34	RP30-4812SFW
18 ~ 75VDC	15	2000	945-1279-ND	97.63	94.76	93.32	RP30-4815SFW
RP40 Series — 40 Watt, Single and Dual Output							
9 ~ 36VDC	5	8000	945-1280-ND	108.72	105.53	103.93	RP40-2405SGW
9 ~ 36VDC	12	3333	945-1281-ND	108.72	105.53	103.93	RP40-2412SGW
18 ~ 75VDC	5	8000	945-1282-ND	108.72	105.53	103.93	RP40-4805SGW
18 ~ 75VDC	±12	±1667	945-1283-ND	114.71	111.34	109.65	RP40-4812DGW
18 ~ 75VDC	12	3333	945-1284-ND	108.72	105.53	103.93	RP40-4812SGW
AC/DC Converters							
RAC04 Series — 4 Watt, Single Output							
90 ~ 264VAC	5	800	945-1064-ND	21.20	20.58	20.27	RAC04-05SA
90 ~ 305VAC	5	800	945-1065-ND	25.95	25.19	24.81	RAC04-05SA/277
90 ~ 264VAC	12	333	945-1066-ND	21.20	20.58	20.27	RAC04-12SA
90 ~ 305VAC	12	333	945-1067-ND	25.95	25.19	24.81	RAC04-12SA/277
90 ~ 264VAC	15	267	945-1068-ND	21.20	20.58	20.27	RAC04-15SA
90 ~ 264VAC	24	167	945-1069-ND	21.20	20.58	20.27	RAC04-24SA
90 ~ 305VAC	24	167	945-1070-ND	25.95	25.19	24.81	RAC04-24SA/277
90 ~ 264VAC	3.3	1200	945-1071-ND	21.20	20.58	20.27	RAC04-3.3SA
RAC05 Series — 5 Watt, Single Output							
90 ~ 264VAC	5	1000	945-1072-ND	25.77	25.02	24.64	RAC05-05SB
90 ~ 264VAC	12	420	945-1073-ND	25.77	25.02	24.64	RAC05-12SB
90 ~ 264VAC	24	230	945-1074-ND	41.28	40.07	39.46	RAC05-24SB
RAC10 Series — 10 Watt, Single Output							
90 ~ 264VAC	5	2000	945-1075-ND	27.71	26.90	26.49	RAC10-05SB
90 ~ 264VAC	12	833	945-1076-ND	27.71	26.90	26.49	RAC10-12SB
90 ~ 264VAC	15	667	945-1077-ND	43.47	42.20	41.56	RAC10-15SB
90 ~ 264VAC	24	417	945-1078-ND	27.71	26.90	26.49	RAC10-24SB

§ Add /N for CTRL function with negative logic (0=ON, 1=OFF including trim pin

(Continued)

NEW! RECOM

Powerline — DC/DC and AC/DC Converters *(Cont.)*

Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
RAC15 Series — 15 Watt, Single and Dual Output							
90 ~ 264	5	3000	945-1079-ND	46.17	44.81	44.13	RAC15-05SA
90 ~ 264	±12	±650	945-1081-ND	47.85	46.45	45.74	RAC15-12DA
90 ~ 264	12	1250	945-1083-ND	46.17	44.81	44.13	RAC15-12SA
90 ~ 264	±15	±500	945-1085-ND	47.85	46.45	45.74	RAC15-15DA
90 ~ 264	24	625	945-1087-ND	46.17	44.81	44.13	RAC15-24SA
85 ~ 264	5	3000	945-1080-ND	62.98	61.13	60.21	RAC15-05SB
85 ~ 264	±12	±625	945-1082-ND	69.85	67.80	66.78	RAC15-12DB
85 ~ 264	12	1250	945-1084-ND	62.98	61.13	60.21	RAC15-12SB
85 ~ 264	±15	±500	945-1086-ND	69.85	67.80	66.78	RAC15-15DB
85 ~ 264	24	625	945-1088-ND	62.98	61.13	60.21	RAC15-24SB
RAC20 Series — 20 Watt, Single Output							
90 ~ 264	5	3600	945-1089-ND	55.60	53.97	53.15	RAC20-05SB
90 ~ 264	12	1666	945-1090-ND	55.60	53.97	53.15	RAC20-12SB

Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
90 ~ 264	15	1330	945-1091-ND	55.60	53.97	53.15	RAC20-15SB
90 ~ 264	24	833	945-1092-ND	55.60	53.97	53.15	RAC20-24SB
RAC40 Series — 40 Watt, Single and Double Output							
90 ~ 264	±5	±4000	945-1093-ND	105.68	102.57	101.02	RAC40-05DA
90 ~ 264	5	8000	945-1094-ND	96.07	93.25	91.84	RAC40-05SA
90 ~ 264	±12	±1666	945-1095-ND	105.68	102.57	101.02	RAC40-12DA
90 ~ 264	12	3333	945-1096-ND	96.07	93.25	91.84	RAC40-12SA
90 ~ 264	±15	±1320	945-1097-ND	105.68	102.57	101.02	RAC40-15DA
90 ~ 264	24	1666	945-1098-ND	96.07	93.25	91.84	RAC40-24SA
RAC60 Series — 60 Watt, Single Output							
85 ~ 265	5	10000	945-1099-ND	107.02	103.88	102.31	RAC60-05SB
85 ~ 265	12	5000	945-1100-ND	107.02	103.88	102.31	RAC60-12SB
85 ~ 265	24	2500	945-1101-ND	107.02	103.88	102.31	RAC60-24SB

§ Add /N for CTRL function with negative logic (0=ON, 1=OFF including trim pin

Powerline Plus

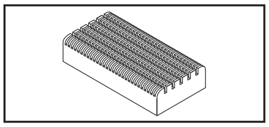

Features:
- Operating Temperature Range: -55° ~ 120°C
- Full power at 100°C, no derating
- Built-in EN55022/FCC Class B EMC Filter
- Efficiencies above 90%

Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
RPP20 Series — 20 Watt, Single and Dual Output							
9 ~ 36	5	4000	945-1285-ND	125.54	121.85	120.01	RPP20-2405SW
9 ~ 36	±12	±833	945-1286-ND	125.54	121.85	120.01	RPP20-2412DW
9 ~ 36	12	1666	945-1287-ND	125.54	121.85	120.01	RPP20-2412SW
9 ~ 36	±15	±666	945-1288-ND	125.54	121.85	120.01	RPP20-2415DW
9 ~ 36	3.3	6000	945-1289-ND	125.54	121.85	120.01	RPP20-243.3SW
18 ~ 75	5	4000	945-1290-ND	125.54	121.85	120.01	RPP20-4805SW
18 ~ 75	±12	±833	945-1291-ND	125.54	121.85	120.01	RPP20-4812DW
18 ~ 75	12	1666	945-1292-ND	125.54	121.85	120.01	RPP20-4812SW
18 ~ 75	±15	±666	945-1293-ND	125.54	121.85	120.01	RPP20-4815DW

Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
RPP30 Series — 30 Watt, Single Output							
9 ~ 36	5	6000	945-1294-ND	131.27	127.41	125.48	RPP30-2405SW
9 ~ 36	12	2500	945-1295-ND	131.27	127.41	125.48	RPP30-2412SW
18 ~ 75	5	6000	945-1296-ND	131.27	127.41	125.48	RPP30-4805SW
18 ~ 75	12	2500	945-1297-ND	131.27	127.41	125.48	RPP30-4812SW
RPP40 and RPP50 Series — 40/50 Watt Single Output							
18 ~ 36	5	8000	945-1298-ND	151.97	147.50	145.27	RPP40-2405S
18 ~ 36	12	3330	945-1299-ND	151.97	147.50	145.27	RPP40-2412S
18 ~ 36	3.3	12000	945-1300-ND	151.97	147.50	145.27	RPP40-243.3S
36 ~ 75	5	8000	945-1301-ND	151.97	147.50	145.27	RPP40-4805S
36 ~ 75	12	3330	945-1302-ND	151.97	147.50	145.27	RPP40-4812S
36 ~ 75	3.3	12000	945-1303-ND	151.97	147.50	145.27	RPP40-483.3S
18 ~ 36	5	10000	945-1304-ND	159.90	155.20	152.85	RPP50-2405S
18 ~ 36	12	4160	945-1305-ND	159.90	155.20	152.85	RPP50-2412S
36 ~ 75	5	10000	945-1306-ND	159.90	155.20	152.85	RPP50-4805S
36 ~ 75	12	4160	945-1307-ND	159.90	155.20	152.85	RPP50-4812S

Innoline

Digi-Reel®

Switching Regulators:

Features: • Drop-in replacement for LM78 Linear Regulators • No external components needed • Up to 96% efficiency • No heat sink required • Fully certified: EN-55022, EN-60601-1-2 • Short-circuit and overload protection • Over-temperature protected • Up to 5A of continuous output current • MTBF up to 3.0 million hours • Non-Isolated converters

Constant Current LED Drivers:

Features: • Ready to use - Plug and Play (no external components necessary for basic use) • Constant current output up to 1.2A • Input Voltage Range: 4.5V ~ 3.6V • Up to 97% efficiency • 2 dimming options: 100% linear Analog Dimming, PWM Digital Dimming • Low emissions (EN-55022) • Long lifetime/MTBF up to 600,000 hours • Ultra Miniature Design (through hole and wired) • 85°C Ambient Temperature

Fig. 1

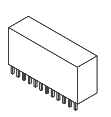

Fig. 2

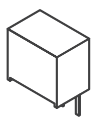

Fig. 3

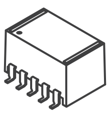

Fig. 4

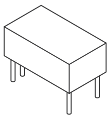

Fig.	Input Voltage Range (V)	Output Voltage (V)	Output Current	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
Switching Regulators								
R-74xxx Series — 4 AMP, Single Output								
1	4.5 ~ 28	3.3	4A	945-1027-ND§	25.07	24.34	23.97	R-743.3P
	6.5 ~ 28	5	4A	945-1028-ND§	25.07	24.34	23.97	R-745.0P
	8.5 ~ 28	6.5	4A	945-1029-ND§	25.07	24.34	23.97	R-746.5P
R-78-0.5 Series — 0.5 AMP, Single Output								
2	4.75 ~ 32	1.8	500mA	945-1030-ND	6.32	6.14	6.05	R-781.8-0.5
	15 ~ 32	12	500mA	945-1032-ND	6.96	6.76	6.65	R-7812-0.5
	18 ~ 32	15	500mA	945-1033-ND	6.96	6.76	6.65	R-7815-0.5
	4.75 ~ 32	3.3	500mA	945-1035-ND	6.32	6.14	6.05	R-783.3-0.5
	6.5 ~ 32	5	500mA	945-1037-ND	6.32	6.14	6.05	R-785.0-0.5
	8 ~ 32	6.5	500mA	945-1039-ND	6.96	6.76	6.65	R-786.5-0.5
	11 ~ 32	9	500mA	945-1040-ND	6.96	6.76	6.65	R-789.0-0.5
R-78-1.0 Series — 1.0 AMP, Single Output								
2	4.75 ~ 18	1.8	1.0A	945-1031-ND	6.96	6.76	6.65	R-781.8-1.0
	4.75 ~ 18	2.5	1.0A	945-1034-ND	6.96	6.76	6.65	R-782.5-1.0
	4.75 ~ 18	3.3	1.0A	945-1036-ND	6.96	6.76	6.65	R-783.3-1.0
	6.5 ~ 18	5.0	1.0A	945-1038-ND	6.96	6.76	6.65	R-785.0-1.0
R-78B-1.0 Series — 1.0 AMP, Single Output								
2	4.75 ~ 26	1.8	1A	945-1045-ND	8.35	8.11	7.98	R-78B1.8-1.0
	16 ~ 32	12	1A	945-1046-ND	9.04	8.78	8.65	R-78B12-1.0
	16 ~ 32	12	1A	945-1047-ND†	9.55	9.28	9.14	R-78B12-1.0L
	20 ~ 32	15	1A	945-1048-ND	9.04	8.78	8.65	R-78B15-1.0
	4.75 ~ 32	3.3	1A	945-1049-ND	8.35	8.11	7.98	R-78B3.3-1.0
	4.75 ~ 32	3.3	1A	945-1050-ND†	8.86	8.60	8.47	R-78B3.3-1.0L
	6.5 ~ 32	5	1A	945-1052-ND	8.35	8.11	7.98	R-78B5.0-1.0
	6.5 ~ 32	5	1A	945-1053-ND†	8.86	8.60	8.47	R-78B5.0-1.0L
	9 ~ 32	6.5	1A	945-1055-ND	9.04	8.78	8.65	R-78B6.5-1.0
	12 ~ 32	9	1A	945-1056-ND	9.04	8.78	8.65	R-78B9.0-1.0
R-78B-1.5 Series — 1.5 AMP, Single Output								
2	4.75 ~ 18	3.3	1.5A	945-1051-ND	10.09	9.79	9.65	R-78B3.3-1.5
	6.5 ~ 18	5	1.5A	945-1054-ND	10.09	9.79	9.65	R-78B5.0-1.5
R-78HB Series — 0.5 AMP, Single Output								
2	17 ~ 72	12	500mA	945-1057-ND	12.84	12.46	12.28	R-78HB12-0.5
	20 ~ 72	15	500mA	945-1058-ND	12.84	12.46	12.28	R-78HB15-0.5
	36 ~ 72	24	300mA	945-1059-ND	13.88	13.48	13.27	R-78HB24-0.3
	9 ~ 72	3.3	500mA	945-1060-ND	12.14	11.79	11.61	R-78HB3.3-0.5

Fig.	Input Voltage Range (V)	Output Voltage (V)	Output Current	Digi-Key Part No.	Price Each 1	5	10	RECOM Part No.
2	9 ~ 72	5.0	500mA	945-1061-ND	12.14	11.79	11.61	R-78HB5.0-0.5
	9 ~ 72	6.5	500mA	945-1062-ND	12.84	12.46	12.28	R-78HB6.5-0.5
	14 ~ 72	9	500mA	945-1063-ND	12.84	12.46	12.28	R-78HB9.0-0.5
R-78AA-0.5 Series — 0.5 AMP, Single Output								
3	15 ~ 32	12	500mA	945-1041-1-ND•	13.64	12.90	11.91	R-78AA12-0.5SMD-R
	15 ~ 32	12	500mA	945-1041-2-ND★	1860.00/250			R-78AA12-0.5SMD-R
	4.75 ~ 32	3.3	500mA	945-1042-1-ND•	12.57	11.89	10.97	R-78AA3.3-0.5SMD-R
	4.75 ~ 32	3.3	500mA	945-1042-2-ND★	1713.75/250			R-78AA3.3-0.5SMD-R
	6.5 ~ 32	5	500mA	945-1043-1-ND•	12.57	11.89	10.97	R-78AA5.0-0.5SMD-R
	6.5 ~ 32	5	500mA	945-1043-2-ND★	1713.75/250			R-78AA5.0-0.5SMD-R
R-78AA-1.0 Series — 1.0 AMP, Single Output								
3	6.5 ~ 18	5	1.0A	945-1044-1-ND•	12.84	12.15	11.21	R-78AA5.0-1.0SMD-R
	6.5 ~ 18	5	1.0A	945-1044-2-ND★	1751.25/250			R-78AA5.0-1.0SMD-R
Constant Current LED Drivers								
4	4.5 ~ 36	2 ~ 35	300mA	945-1116-ND	12.94	12.56	12.37	RCD-24-0.30
	4.5 ~ 36	2 ~ 35	350mA	945-1117-ND	12.94	12.56	12.37	RCD-24-0.35
	4.5 ~ 36	2 ~ 35	350mA	945-1118-ND‡	14.70	14.28	14.06	RCD-24-0.35/SMD/OF
	4.5 ~ 36	2 ~ 35	350mA	945-1119-NDΔ	13.96	13.56	13.35	RCD-24-0.35/W
	4.5 ~ 36	2 ~ 35	350mA	945-1120-ND◊	14.66	14.24	14.02	RCD-24-0.35/W/X1
	4.5 ~ 36	2 ~ 35	350mA	945-1121-ND▲	15.08	14.64	14.42	RCD-24-0.35/W/X3
	4.5 ~ 36	2 ~ 35	500mA	945-1122-ND	14.23	13.82	13.61	RCD-24-0.50
	4.5 ~ 36	2 ~ 35	700mA	945-1123-ND	15.69	15.23	15.00	RCD-24-0.70
	4.5 ~ 36	2 ~ 35	700mA	945-1124-ND‡	16.72	16.23	15.99	RCD-24-0.70/SMD/OF
	4.5 ~ 36	2 ~ 35	700mA	945-1125-NDΔ	16.72	16.23	15.98	RCD-24-0.70/W
	4.5 ~ 36	2 ~ 35	700mA	945-1126-ND◊	17.55	17.04	16.78	RCD-24-0.70/W/X1
	4.5 ~ 36	2 ~ 35	700mA	945-1127-ND▲	18.05	17.53	17.26	RCD-24-0.70/W/X3
	6 ~ 36	3 ~ 33	1000mA	945-1128-ND	19.03	18.47	18.19	RCD-24-1.00
	6 ~ 36	3 ~ 33	1000mA	945-1129-NDΔ	20.05	19.47	19.17	RCD-24-1.00/W
	6 ~ 36	3 ~ 33	1000mA	945-1130-ND◊	21.06	20.44	20.13	RCD-24-1.00/W/X1
	6 ~ 36	3 ~ 33	1000mA	945-1131-ND▲	21.66	21.03	20.71	RCD-24-1.00/W/X3
	6 ~ 36	3 ~ 33	1200mA	945-1132-ND	20.17	19.58	19.28	RCD-24-1.20
	6 ~ 36	3 ~ 33	1200mA	945-1133-NDΔ	21.18	20.56	20.25	RCD-24-1.20/W
	6 ~ 36	3 ~ 33	1200mA	945-1134-ND◊	22.24	21.59	21.26	RCD-24-1.20/W/X1
	6 ~ 36	3 ~ 33	1200mA	945-1135-ND▲	22.88	22.21	21.87	RCD-24-1-.20/W/X3

§ P pins vertical through hole † Add suffix L for 90° bent pins ‡ Add suffix /SMD/OF for open frame version with SMD solder pins Δ Add suffix /W for standard wired version without dimming control (4 wires) ◊ Add suffix /W/X1 for wired version with analog dimming control (5 wires) ▲ Add suffix /W/X3 for wired version with both analog and PWM dimming controls (6 wires) • Cut Tape ★ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Power Modules

Fig. 1

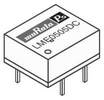

Fig. 2

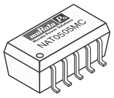

Fig. 3 ***NEW!***

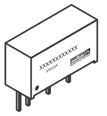

Fig. 4

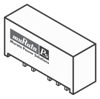

BST Series: The BST 3W Series of low-power isolated DC/DC converters provide output ranges from ±250mA@ ±5V ~ ±85mA@ ±15V. They operate over the full -40°C ~ 75°C temperature range without derating.

BWR Series: The BWR 7 ~ 10W series of high efficiency isolated DC/DC converters, with output ranges from ±700mA@ ±5V ~ ±275mA@ ±15V. Output transient response is a quick 200µ second, while output ripple and noise are typically 75mVp-p.

HB01 Series: The HB01 Series is ideal for applications where the output is susceptible to high voltage transients, such as motor drive and industrial process control applications.

HB04 Series: The HB04 Series is a low-cost, high isolation voltage, unregulated, single and dual output DC/DC converter. It uses advanced circuit design and packaging technology to realize superior reliability and performance.

HL01 Series: • Non-conductive case • Internal input and output filtering • Short circuit protected • Built-in standoffs • Industry standard pinout

HL02 Series: The HL02RYC Series utilizes a 110KHz push-pull oscillator in the input stage with low-drop regulators on the outputs, reducing the output noise and maintaining good efficiency.

HPR1 Series: • Low cost • Internal input and output filtering • Non-conductive case

HPR4 Series: • Extended temperature range: -25°C ~ 85°C • High output power density: 10W/Inch^3 • High efficiency with less heat to dissipate

LME Series: • Power density 0.36W/cm^3 • MTTF up to 2.2 million hours • Pin compatible with NKE, NME and NML Series

MEA1 Series: The MEA series is a high performance version of our 1W NMA series. The MEA series is more efficient and offers improved regulation performance ≤5% for applications where a wide output voltage variation can not be tolerated. They are ideally suited for providing dual rail supplies with the added benefit of galvanic isolation to reduce switching noise. All of the rated power may be drawn from a single output providing the total load does not exceed 1 watt.

MER1 Series: The MER1 series is a high performance version of our 1W NMR Series. The MER1 Series is more efficient and offers improved regulation performance for applications where a wide output voltage variation can not be tolerated. Wide Temperature performance at full load, -40°C ~ 85°C. UL 60950 Recognized

MEV1 Series: The MEV1 series is a high performance version of our 1W NMV series. Wide Temperature performance at full load, -40°C ~ 85°C. UL 60950 Recognized. 3kVDC isolation test voltage (one minute).

MEV3 Series: The MEV3 Series is a range of high performance 3W DC/DC converters, offering 3W of available output power in a previously rated 2W package capable of operation over the full industrial temperature range of -40°C ~ 85°C. The MEV series is ideally suited for providing local supplies on control system boards with the added benefit of 3kVDC galvanic isolation to reduce switching noise.

NCS6 Series: • 4:1 Wide range voltage input • Operating Temperature Range: -40°C ~ 85°C • Power density 0.94W/cm^3

NDH and NDL Series: Range of high performance miniature DC/DC converters having regulated outputs over the wide temperature range of -40°C ~ 85°C. The input voltage range is 2:1 and the input to output isolation is 1kVDC.

NDS6 Series: • 2:1 Wide range voltage input • Operating Temperature Range: -40°C ~ 85°C • Power density 0.94W/cm^3

NDTD and NDTS Series: Range of low profile DC/DC converters offering dual (NDTD) and single (NDTS) outputs over a 2:1 input voltage range. All parts deliver 3W output power up to 85°C without heatsinking.

NDY Series: Range of low profile DC/DC converters offering a single regulated output over a 2:1 input voltage range. All parts deliver 3W output power up to 85°C without heatsinking, except the 4.5V ~ 9V input voltage range which should be derated to 2W at the lower input voltage.

NGA Series: Range of low profile DC/DC converters offering a single regulated output over a wide input voltage range. All parts deliver th full output power up to 85°C without the need for external heatsinking while the synchronous rectification design yields excellent efficiencies up to 95%.

NKA Series: Sub-miniature series of industrial temperature range DC/DC converters are the standard building blocks for on-board distributed power systems.

NKE Series: Sub-miniature series of DC/DC converters is particularly suited to isolating and/or converting DC power rails.

NMA, NMR and NMV Series: Industrial temperature range DC/DC converters are the standard building blocks for on-board distributed power systems.

NMD Series: DC/DC converters are ideally suited to applications where a potential difference exists between loads, for example: motor control circuits.

NME, NMG, NML, NMXSO and NMXU Series: DC/DC converters that are particularly suited to isolate and/or convert DC power rails.

NMF Series: DC/DC converters that are used where a tightly regulated supply is required. They are ideal for situations where the input voltage is not tightly controlled.

NMH Series: Industrial temperature range DC/DC converters are the standard building blocks for on-board point-of-use power systems.

NMJ Series: Dual and single output DC/DC converters in a 7-Pin SIP package style offering pin and functionality compatibility with the NMV series SIP DC/DC converters.

NMK Series: Industrial temperature range DC/DC converters, available in industry standard SIP packaging offers a power upgrade path from the 1W NMV series.

NMS Series: DC/DC converters are UL1950 recognized which makes them ideal for all telecom and safety applications where approved isolation is required.

NMT Series: Range of DC/DC converters offering three output voltages of -24V, -48V and -72V from a single isolated 5V or 12V input voltage.

NPH Series: DC/DC converters combines ease of application with versatility. The pin pattern is based on the popular industry standard, but two additional pins may optionally be fitted to provide a variety of features not commonly found on units of this type.

NTA, NTE, NTH and NTV Series: Miniature surface mounted DC/DC converters employ lead frame technology and transfer moulding techniques to bring all of the benefits of IC style packaging to hybrid circuitry.

NTF Series: • MTTF up to 1.4 million hours • Power density 0.7W/cm^3 • Wide temperature performance -40°C ~ 85°C

PWR Series: The PWR Series offers a broad line of low-cost, high-isolation voltage, unregulated, single and dual output DC/DC converters.

TWR Series: The TWR 22W series of fully isolated DC/DC converters offer three outputs arranged as a unipolar low voltage supply and a higher voltage bipolar output pair. The unipolar section supplies either 3.3V @ 4A max. or 5V @ 3A max. The bipolar outputs are either ±12VDC @ 300mA maximum or ±15VDC @ 250mA and are ideal for op amps, linear or analog ciruits

UHE Series: The UHE 12~30W Series of high-efficiency, isolated DC/DC's provide output power ranging from 10Amps @ 1.2V to 2Amps @ 15V. Offering both 2:1 and 4:1 input voltage ranges.

UST Series: The UST 3W series of low power, fully isolated DC/DC converters provide output ranges from 500mA@ 5V ~ 200mA@ 15V. Output transient response is a quick 200µ second, while output ripple and noise are typically 75mVp-p.

UWR Series: The UWR 6 ~ 10W series of high power, fully isolated DC/DC converters, provides output ranges of 1600mA@ 5V ~ 530mA@ 15V. Includes a chioce of 3 wide range inputs: 4.7V ~ 7.25V, 9V ~ 18V, or 18V ~ 75V.

Note: *For additional technical information and safety approvals please see Digi-Key website for data sheets*

Fig.	Mount-ing Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
				BST Series					
1	DIP	5	±15	±85▲	811-1712-5-ND	41.96	40.73	40.11	BST-15/85-D5-C
	DIP	48	±5	±250▲	811-1710-5-ND	37.40	36.30	35.75	BST-5/250-D48-C
	DIP	48	±12	±125▲	811-1711-5-ND	37.40	36.30	35.75	BST-12/125-D48-C
				BWR Series					
1	DIP	5	±5	±700	811-1716-5-ND	88.37	85.77	84.47	BWR-5/700-D5A-C
	DIP	5	±12	±335	811-1719-5-ND	88.37	85.77	84.47	BWR-12/335-D5A-C
	DIP	5	±15	±85▲	811-1734-5-ND	57.12	55.44	54.60	BWR-15/85-D5-C
	DIP	5	±15	±275	811-1722-5-ND	88.37	85.77	84.47	BWR-15/275-D5A-C
	DIP	5	±15	±500	811-1731-5-ND	117.81	114.35	112.62	BWR-15/500-D5A-C
	DIP	12	5/3.3	6A/7A‡	811-1736-5-ND	86.39	83.86	82.59	BWR-5/6-3.3/7-D12-C
	DIP	12	±5	±250▲	811-1733-5-ND	54.40	52.80	52.00	BWR-5/250-D12-C
	DIP	12	±5	±900	811-1717-5-ND	88.37	85.77	84.47	BWR-5/900-D12A-C
	DIP	12	±12	±415	811-1720-5-ND	88.37	85.77	84.47	BWR-12/415-D12A-C
	DIP	12	±15	±330	811-1723-5-ND	88.37	85.77	84.47	BWR-15/330-D12A-C
	DIP	24	5/3.3	3A/4.25A‡	811-1735-5-ND	79.90	77.55	76.38	BWR-5/3-3.3/4.25-D24A-C
	DIP	24	5/3.3	6A/7A‡	811-1737-5-ND	84.59	82.11	80.86	BWR-5/6-3.3/7-D24-C
	DIP	24	±5	±500▲	811-1713-5-ND	66.49	64.54	63.56	BWR-5/500-D24-C
	DIP	24	±5	±1700	811-1729-5-ND	107.10	103.95	102.38	BWR-5/1700-D12A-C
	DIP	24	±12	±210▲	811-1714-5-ND	58.02	56.32	55.47	BWR-12/210-D24-C
	DIP	24	±12	±725	811-1726-5-ND	64.60	62.70	61.75	BWR-12/725-D24A-C
	DIP	24	±12	±830	811-1730-5-ND	107.10	103.95	102.38	BWR-12/830-D12A-C
	DIP	24	±15	±165▲	811-1715-5-ND	66.05	64.11	63.14	BWR-15/165-D24-C
	DIP	24	±15	±575	811-1728-5-ND	65.45	63.53	62.57	BWR-15/575-D24A-C
	DIP	24	±15	±670	811-1732-5-ND	107.10	103.95	102.38	BWR-15/670-D12A-C
	DIP	48	±5	±700	811-1718-5-ND	87.47	84.90	83.61	BWR-5/700-D48A-C
	DIP	48	±5	±1500	811-1725-5-ND	49.30	47.85	47.13	BWR-5/1500-D48A-C
	DIP	48	±12	±415	811-1721-5-ND	87.47	84.90	83.61	BWR-12/415-D48A-C
	DIP	48	±12	±725	811-1727-5-ND	49.30	47.85	47.13	BWR-12/725-D48A-C
	DIP	48	±15	±330	811-1724-5-ND	87.47	84.90	83.61	BWR-15/330-D48A-C
				HB01 Series					
1	DIP	5	5	200	811-1740-5-ND	10.10	9.81	9.66	HB01U05S05YC
2	SMD	5	5	200	811-1741-5-ND	10.10	9.81	9.66	HB01U05S05ZC
				HB04 Series					
1	DIP	12	5	800	811-1742-5-ND	54.20	52.61	51.81	HB04U12S05QC
	DIP	12	12	333	811-1743-5-ND	54.20	52.61	51.81	HB04U12S12QC
	DIP	12	±15	±134	811-1745-5-ND	65.03	63.12	62.16	HB04U12D15QC
	DIP	12	15	267	811-1744-5-ND	54.20	52.61	51.81	HB04U12S15QC
	DIP	15	±12	±167	811-1746-5-ND	65.03	63.12	62.16	HB04U15D12QC

Fig.	Mount-ing Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
				HL01 Series					
1	DIP	5	5	200	811-1747-5-ND	10.54	10.23	10.08	HL01R05S05YC
	DIP	5	12	83	811-1748-5-ND	10.54	10.23	10.08	HL01R05S12YC
	DIP	24	5	200	811-1749-5-ND	10.54	10.23	10.08	HL01R24S05YC
				HL02 Series					
1	DIP	5	5	400	811-1750-5-ND	12.63	12.26	12.08	HL02R05S05YC
	DIP	5	12	166	811-1751-5-ND	12.63	12.26	12.08	HL02R05S12YC
	DIP	24	5	400	811-1752-5-ND	12.63	12.26	12.08	HL02R24S05YC
				HPR1 Series					
1	DIP	15	±15	±25	811-1770-5-ND	11.05	10.73	10.57	HPR117VC
2	SMD	5	5	150	811-1760-5-ND	8.50	8.25	8.13	HPR100WC
4	SIP	5	±5	±75	811-1762-5-ND	11.05	10.73	10.57	HPR103C
	SIP	5	5	150	811-1761-5-ND	8.50	8.25	8.13	HPR100C
	SIP	5	5	200	811-1757-5-ND	9.35	9.08	8.94	HPR1000C
	SIP	5	±12	±30	811-1763-5-ND	11.05	10.73	10.57	HPR104C
	SIP	5	±15	±25	811-1764-5-ND	11.05	10.73	10.57	HPR105C
	SIP	5	±15	±34	811-1758-5-ND	11.48	11.14	10.97	HPR1005C
	SIP	12	5	150	811-1765-5-ND	8.50	8.25	8.13	HPR106C
	SIP	12	±12	±30	811-1767-5-ND	11.05	10.73	10.57	HPR110C
	SIP	12	12	62	811-1766-5-ND	8.50	8.25	8.13	HPR107C
	SIP	15	5	150	811-1768-5-ND	8.50	8.25	8.13	HPR112C
	SIP	15	±15	±25	811-1769-5-ND	11.05	10.73	10.57	HPR117C
	SIP	24	5	150	811-1771-5-ND	8.50	8.25	8.13	HPR118C
	SIP	24	±12	±30	811-1773-5-ND	11.05	10.73	10.57	HPR122C
	SIP	24	±15	±25	811-1774-5-ND	11.05	10.73	10.57	HPR123C
	SIP	24	±15	±34	811-1759-5-ND	11.48	11.14	10.97	HPR1023C
	SIP	24	15	50	811-1772-5-ND	8.50	8.25	8.13	HPR120C
				HPR4 Series					
4	SIP	5	5	150	811-1775-5-ND	12.14	11.79	11.61	HPR400C
	SIP	5	±5	±75	811-1777-5-ND	17.20	16.70	16.45	HPR403C
	SIP	5	15	50	811-1776-5-ND	12.14	11.79	11.61	HPR402C
	SIP	12	12	62	811-1778-5-ND	12.14	11.79	11.61	HPR407C
	SIP	15	±15	±25	811-1779-5-ND	17.20	16.70	16.45	HPR417C
	SIP	24	5	150	811-1780-5-ND	12.14	11.79	11.61	HPR418C
				LME Series					
4	SIP	5	5	50	811-1347-5-ND	9.71	9.43	9.28	LME0505SC
	SIP	5	12	21	811-1348-5-ND	9.71	9.43	9.28	LME0512SC
	SIP	5	15	16	811-1349-5-ND	9.71	9.43	9.28	LME0515SC
	SIP	12	5	50	811-1350-5-ND	9.71	9.43	9.28	LME1205SC
	SIP	12	12	21	811-1351-5-ND	9.71	9.43	9.28	LME1212SC

▲ Maximum ‡ IOUT not to exceed total specified wattage ◊ Tray † With all three channels equally loaded *(Continued)*

Power Modules *(Cont.)*

Fig.	Mounting Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each			Murata Power Solutions Part No.
						1	5	10	
NEW! MEA1 Series NEW!									
4	SIP	15	±5	100	811-2167-5-ND	7.99	7.76	7.64	MEA1D1505SC
	SIP	15	±9	56	811-2168-5-ND	7.99	7.76	7.64	MEA1D1509SC
	SIP	15	±12	42	811-2169-5-ND	7.99	7.76	7.64	MEA1D1512SC
	SIP	15	±15	33	811-2170-5-ND	7.99	7.76	7.64	MEA1D1515SC
	SIP	24	±5	100	811-2171-5-ND	7.99	7.76	7.64	MEA1D2405SC
	SIP	24	±9	56	811-2172-5-ND	7.99	7.76	7.64	MEA1D2409SC
	SIP	24	±12	42	811-2173-5-ND	7.99	7.76	7.64	MEA1D2412SC
	SIP	24	±15	33	811-2174-5-ND	7.99	7.76	7.64	MEA1D2415SC
	SIP	48	±5	100	811-2175-5-ND	7.99	7.76	7.64	MEA1D4805SC
	SIP	48	±9	56	811-2176-5-ND	7.99	7.76	7.64	MEA1D4809SC
	SIP	48	±12	42	811-2177-5-ND	7.99	7.76	7.64	MEA1D4812SC
	SIP	48	±15	33	811-2178-5-ND	7.99	7.76	7.64	MEA1D4815SC
	DIP	5	±5	100	811-2215-5-ND	7.99	7.76	7.64	MEA1D0505DC
	DIP	5	±15	33	811-2216-5-ND	7.99	7.76	7.64	MEA1D0515DC
	DIP	12	±12	42	811-2217-5-ND	7.99	7.76	7.64	MEA1D1212DC
	DIP	12	±15	33	811-2218-5-ND	7.99	7.76	7.64	MEA1D1215DC
	DIP	15	±9	56	811-2219-5-ND	7.99	7.76	7.64	MEA1D0509DC
	DIP	15	±12	42	811-2220-5-ND	7.99	7.76	7.64	MEA1D0512DC
	DIP	24	±5	100	811-2221-5-ND	7.99	7.76	7.64	MEA1D2405DC
NEW! MER1 Series NEW!									
3	SIP	5	5	200	811-2124-5-ND	7.99	7.76	7.64	MER1S0505SC
	SIP	5	9	111	811-2125-5-ND	7.99	7.76	7.64	MER1S0509SC
	SIP	5	12	84	811-2126-5-ND	7.99	7.76	7.64	MER1S0512SC
	SIP	5	15	67	811-2127-5-ND	7.99	7.76	7.64	MER1S0515SC
	SIP	12	5	200	811-2128-5-ND	7.99	7.76	7.64	MER1S1205SC
	SIP	12	9	111	811-2129-5-ND	7.99	7.76	7.64	MER1S1209SC
	SIP	12	12	84	811-2130-5-ND	7.99	7.76	7.64	MER1S1212SC
	SIP	12	15	67	811-2131-5-ND	7.99	7.76	7.64	MER1S1215SC
	SIP	15	5	200	811-2132-5-ND	7.99	7.76	7.64	MER1S1505SC
	SIP	15	9	111	811-2133-5-ND	7.99	7.76	7.64	MER1S1509SC
	SIP	15	12	84	811-2134-5-ND	7.99	7.76	7.64	MER1S1512SC
	SIP	15	15	67	811-2135-5-ND	7.99	7.76	7.64	MER1S1515SC
	SIP	24	5	200	811-2136-5-ND	7.99	7.76	7.64	MER1S2405SC
	SIP	24	9	111	811-2137-5-ND	7.99	7.76	7.64	MER1S2409SC
	SIP	24	12	84	811-2138-5-ND	7.99	7.76	7.64	MER1S2412SC
	SIP	24	15	67	811-2139-5-ND	7.99	7.76	7.64	MER1S2415SC
	SIP	48	5	200	811-2140-5-ND	7.99	7.76	7.64	MER1S4805SC
	SIP	48	9	111	811-2141-5-ND	7.99	7.76	7.64	MER1S4809SC
	SIP	48	12	84	811-2142-5-ND	7.99	7.76	7.64	MER1S4812SC
	SIP	48	15	67	811-2143-5-ND	7.99	7.76	7.64	MER1S4815SC
NEW! MEV1 Series NEW!									
3	SIP	15	5	200	811-2155-5-ND	8.81	8.55	8.42	MEV1S1505SC
	SIP	15	9	111	811-2156-5-ND	8.81	8.55	8.42	MEV1S1509SC
	SIP	15	12	84	811-2157-5-ND	8.81	8.55	8.42	MEV1S1512SC
	SIP	15	15	67	811-2158-5-ND	8.81	8.55	8.42	MEV1S1515SC
	SIP	24	5	200	811-2159-5-ND	8.81	8.55	8.42	MEV1S2405SC
	SIP	24	9	111	811-2160-5-ND	8.81	8.55	8.42	MEV1S2409SC
	SIP	24	12	84	811-2161-5-ND	8.81	8.55	8.42	MEV1S2412SC
	SIP	24	15	67	811-2162-5-ND	8.81	8.55	8.42	MEV1S2415SC
	SIP	48	5	200	811-2163-5-ND	8.81	8.55	8.42	MEV1S4805SC
	SIP	48	9	111	811-2164-5-ND	8.81	8.55	8.42	MEV1S4809SC
	SIP	48	12	84	811-2165-5-ND	8.81	8.55	8.42	MEV1S4812SC
	SIP	48	15	67	811-2166-5-ND	8.81	8.55	8.42	MEV1S4815SC
	DIP	5	9	111	811-2204-5-ND	8.81	8.55	8.42	MEV1S0509DC
	DIP	5	12	84	811-2205-5-ND	8.81	8.55	8.42	MEV1S0512DC
	DIP	5	15	67	811-2206-5-ND	8.81	8.55	8.42	MEV1S0515DC
	DIP	12	5	200	811-2207-5-ND	8.81	8.55	8.42	MEV1S1205DC
	DIP	12	15	67	811-2208-5-ND	8.81	8.55	8.42	MEV1S1215DC
	DIP	24	5	200	811-2209-5-ND	8.81	8.55	8.42	MEV1S2405DC
NEW! MEV3 Series NEW!									
3	SIP	5	5	600	811-2116-5-ND	13.60	13.20	13.00	MEV3S0505SC
	SIP	5	9	333	811-2117-5-ND	13.60	13.20	13.00	MEV3S0509SC
	SIP	5	12	250	811-2118-5-ND	13.60	13.20	13.00	MEV3S0512SC
	SIP	5	15	200	811-2119-5-ND	13.60	13.20	13.00	MEV3S0515SC
	SIP	12	5	600	811-2120-5-ND	13.60	13.20	13.00	MEV3S1205SC
	SIP	12	9	333	811-2121-5-ND	13.60	13.20	13.00	MEV3S1209SC
	SIP	12	12	250	811-2122-5-ND	13.60	13.20	13.00	MEV3S1212SC
	SIP	12	15	200	811-2123-5-ND	13.60	13.20	13.00	MEV3S1215SC
NCS6 Series									
1	DIP	12	5	1200	811-2109-5-ND	22.10	21.45	21.13	NCS6S1205C
	DIP	12	12	500	811-2110-5-ND	22.10	21.45	21.13	NCS6S1212C
	DIP	12	15	400	811-2111-5-ND	22.10	21.45	21.13	NCS6S1215C
	DIP	48	5	1200	811-2112-5-ND	22.10	21.45	21.13	NCS6S4805C
	DIP	48	12	500	811-2113-5-ND	22.10	21.45	21.13	NCS6S4812C
	DIP	48	15	400	811-2114-5-ND	22.10	21.45	21.13	NCS6S4815C
NDH Series									
4	SIP	24	±12	125	811-1352-5-ND	17.90	17.38	17.12	NDH2412SC
	SIP	24	±15	100	811-1353-5-ND	17.90	17.38	17.12	NDH2415SC
	SIP	48	±12	125	811-1354-5-ND	17.90	17.38	17.12	NDH4812SC
	SIP	48	±15	100	811-1355-5-ND	17.90	17.38	17.12	NDH4815SC
NDL Series									
4	SIP	5	5	400	811-1356-5-ND	21.18	20.56	20.25	NDL0505SC
	SIP	5	12	167	811-1357-5-ND	21.18	20.56	20.25	NDL0512SC
	SIP	12	5	400	811-1358-5-ND	21.18	20.56	20.25	NDL1205SC
	SIP	12	9	222	811-1359-5-ND	21.18	20.56	20.25	NDL1209SC
	SIP	12	12	167	811-1360-5-ND	21.18	20.56	20.25	NDL1212SC
	SIP	12	15	134	811-1361-5-ND	21.18	20.56	20.25	NDL1215SC
	SIP	24	5	400	811-1362-5-ND	21.18	20.56	20.25	NDL2405SC
	SIP	24	9	222	811-1363-5-ND	21.18	20.56	20.25	NDL2409SC
	SIP	24	12	167	811-1364-5-ND	21.18	20.56	20.25	NDL2412SC
	SIP	24	15	134	811-1365-5-ND	21.18	20.56	20.25	NDL2415SC
	SIP	48	5	400	811-1366-5-ND	21.18	20.56	20.25	NDL4805SC

Fig.	Mounting Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each			Murata Power Solutions Part No.
						1	5	10	
NDS6 Series									
1	DIP	24	±5	±600	811-1993-5-ND	20.40	19.80	19.50	NDS6D2405C
	DIP	24	5	1200	811-1996-5-ND	20.40	19.80	19.50	NDS6S2405C
	DIP	24	±12	±250	811-1994-5-ND	20.40	19.80	19.50	NDS6D2412C
	DIP	24	12	500	811-1997-5-ND	20.40	19.80	19.50	NDS6S2412C
	DIP	24	±15	±200	811-1995-5-ND	20.40	19.80	19.50	NDS6D2415C
	DIP	24	15	400	811-1998-5-ND	20.40	19.80	19.50	NDS6S2415C
NDTD Series									
1	DIP	5	±3.3	±454	811-1367-5-ND	17.90	17.38	17.12	NDTD0503C
	DIP	5	±5	±300	811-1368-5-ND	17.90	17.38	17.12	NDTD0505C
	DIP	5	±12	±125	811-1369-5-ND	17.90	17.38	17.12	NDTD0512C
	DIP	5	±15	±100	811-1370-5-ND	17.90	17.38	17.12	NDTD0515C
	DIP	12	±3.3	±454	811-1371-5-ND	17.90	17.38	17.12	NDTD1203C
	DIP	12	±5	±300	811-1372-5-ND	17.90	17.38	17.12	NDTD1205C
	DIP	12	±12	±125	811-1373-5-ND	17.90	17.38	17.12	NDTD1212C
	DIP	12	±15	±100	811-1374-5-ND	17.90	17.38	17.12	NDTD1215C
	DIP	24	±3.3	±454	811-1375-5-ND	17.90	17.38	17.12	NDTD2403C
	DIP	24	±5	±300	811-1376-5-ND	17.90	17.38	17.12	NDTD2405C
	DIP	24	±12	±125	811-1377-5-ND	17.90	17.38	17.12	NDTD2412C
	DIP	24	±15	±100	811-1378-5-ND	17.90	17.38	17.12	NDTD2415C
	DIP	48	±3.3	±454	811-1379-5-ND	17.90	17.38	17.12	NDTD4803C
	DIP	48	±5	±300	811-1380-5-ND	17.90	17.38	17.12	NDTD4805C
	DIP	48	±12	±125	811-1381-5-ND	17.90	17.38	17.12	NDTD4812C
	DIP	48	±15	±100	811-1382-5-ND	17.90	17.38	17.12	NDTD4815C
NDTS Series									
1	DIP	5	3.3	909	811-1383-5-ND	17.05	16.55	16.30	NDTS0503C
	DIP	5	5	600	811-1384-5-ND	17.05	16.55	16.30	NDTS0505C
	DIP	5	12	250	811-1385-5-ND	17.05	16.55	16.30	NDTS0512C
	DIP	5	15	200	811-1386-5-ND	17.05	16.55	16.30	NDTS0515C
	DIP	12	3.3	909	811-1387-5-ND	17.05	16.55	16.30	NDTS1203C
	DIP	12	5	600	811-1388-5-ND	17.05	16.55	16.30	NDTS1205C
	DIP	12	12	250	811-1389-5-ND	17.05	16.55	16.30	NDTS1212C
	DIP	12	15	200	811-1390-5-ND	17.05	16.55	16.30	NDTS1215C
	DIP	24	3.3	909	811-1391-5-ND	17.05	16.55	16.30	NDTS2403C
	DIP	24	5	600	811-1392-5-ND	17.05	16.55	16.30	NDTS2405C
	DIP	24	12	250	811-1393-5-ND	17.05	16.55	16.30	NDTS2412C
	DIP	24	15	200	811-1394-5-ND	17.05	16.55	16.30	NDTS2415C
	DIP	48	3.3	909	811-1395-5-ND	17.05	16.55	16.30	NDTS4803C
	DIP	48	5	600	811-1396-5-ND	17.05	16.55	16.30	NDTS4805C
	DIP	48	12	250	811-1397-5-ND	17.05	16.55	16.30	NDTS4812C
	DIP	48	15	200	811-1398-5-ND	17.05	16.55	16.30	NDTS4815C
NDY Series									
1	DIP	5	5	400-600	811-1399-5-ND	17.05	16.55	16.30	NDY0505C
	DIP	5	9	222-333	811-1400-5-ND	17.05	16.55	16.30	NDY0509C
	DIP	5	12	166-250	811-1401-5-ND	17.05	16.55	16.30	NDY0512C
	DIP	12	5	600	811-1402-5-ND	17.05	16.55	16.30	NDY1205C
	DIP	12	9	333	811-1403-5-ND	17.05	16.55	16.30	NDY1209C
	DIP	12	12	250	811-1404-5-ND	17.05	16.55	16.30	NDY1212C
	DIP	12	15	200	811-1405-5-ND	17.05	16.55	16.30	NDY1215C
	DIP	24	3.3	909	811-1406-5-ND	17.05	16.55	16.30	NDY2403C
	DIP	24	5	600	811-1407-5-ND	17.05	16.55	16.30	NDY2405C
	DIP	24	9	333	811-1408-5-ND	17.05	16.55	16.30	NDY2409C
	DIP	24	12	250	811-1409-5-ND	17.05	16.55	16.30	NDY2412C
	DIP	24	15	200	811-1410-5-ND	17.05	16.55	16.30	NDY2415C
	DIP	48	5	600	811-1411-5-ND	17.05	16.55	16.30	NDY4805C
NGA Series									
4	SIP	15	3.3	2000	811-1412-ND◊	24.55	23.83	23.47	NGA10S15033SC
	SIP	15	5	2000	811-1413-ND◊	24.55	23.83	23.47	NGA10S15050SC
	SIP	15	5	2000	811-1414-ND◊	24.55	23.83	23.47	NGA10S15050SEC
NKA Series									
4	SIP	3.3	±3.3	±152	811-1415-5-ND	8.38	8.14	8.02	NKA0303SC
	SIP	3.3	±5	±100	811-1416-5-ND	8.38	8.14	8.02	NKA0305SC
	SIP	3.3	±12	±42	811-1417-5-ND	8.38	8.14	8.02	NKA0312SC
	SIP	5	±3.3	±152	811-1418-5-ND	8.38	8.14	8.02	NKA0503SC
	SIP	5	±5	±100	811-1419-5-ND	8.38	8.14	8.02	NKA0505SC
	SIP	5	±9	±56	811-1420-5-ND	8.38	8.14	8.02	NKA0509SC
	SIP	5	±12	±42	811-1421-5-ND	8.38	8.14	8.02	NKA0512SC
	SIP	5	±15	±33	811-1422-5-ND	8.38	8.14	8.02	NKA0515SC
	SIP	12	±5	±100	811-1423-5-ND	8.38	8.14	8.02	NKA1205SC
	SIP	12	±9	±56	811-1424-5-ND	8.38	8.14	8.02	NKA1209SC
	SIP	12	±12	±42	811-1425-5-ND	8.38	8.14	8.02	NKA1212SC
	SIP	12	±15	±33	811-1426-5-ND	8.38	8.14	8.02	NKA1215SC
NKE Series									
1	DIP	3.3	3.3	303	811-1427-5-ND	8.81	8.55	8.42	NKE0303DC
	DIP	3.3	5	200	811-1429-5-ND	8.81	8.55	8.42	NKE0305DC
	DIP	5	3.3	303	811-1431-5-ND	8.81	8.55	8.42	NKE0503DC
	DIP	5	5	200	811-1433-5-ND	8.81	8.55	8.42	NKE0505DC
	DIP	5	9	111	811-1435-5-ND	8.81	8.55	8.42	NKE0509DC
	DIP	5	15	66	811-1438-5-ND	8.81	8.55	8.42	NKE0515DC
	DIP	12	5	200	811-1440-5-ND	8.81	8.55	8.42	NKE1205DC
4	SIP	3.3	3.3	303	811-1428-5-ND	8.38	8.14	8.02	NKE0303SC
	SIP	3.3	5	200	811-1430-5-ND	8.38	8.14	8.02	NKE0305SC
	SIP	5	3.3	303	811-1432-5-ND	8.38	8.14	8.02	NKE0503SC
	SIP	5	5	200	811-1434-5-ND	8.38	8.14	8.02	NKE0505SC
	SIP	5	9	111	811-1436-5-ND	8.38	8.14	8.02	NKE0509SC
	SIP	5	12	83	811-1437-5-ND	8.38	8.14	8.02	NKE0512SC
	SIP	5	15	66	811-1439-5-ND	8.38	8.14	8.02	NKE0515SC
	SIP	12	5	200	811-1441-5-ND	8.38	8.14	8.02	NKE1205SC
	SIP	12	9	111	811-1442-5-ND	8.38	8.14	8.02	NKE1209SC
	SIP	12	12	83	811-1443-5-ND	8.38	8.14	8.02	NKE1212SC
NMA Series									
1	DIP	5	±5	±100	811-1447-5-ND	9.27	9.00	8.86	NMA0505DC
	DIP	5	±12	±42	811-1450-5-ND	9.27	9.00	8.86	NMA0512DC
	DIP	5	±15	±33	811-1452-5-ND	9.27	9.00	8.86	NMA0515DC
	DIP	12	±12	±42	811-1456-5-ND	9.27	9.00	8.86	NMA1212DC
	DIP	12	±15	±33	811-1458-5-ND	9.27	9.00	8.86	NMA1215DC

▲ Maximum ‡ IOUT not to exceed total specified wattage ◊ Tray † With all three channels equally loaded *(Continued)*

Fig.	Mounting Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
1	DIP	15	±5	±100	811-1460-5-ND	9.27	9.00	8.86	NMA1505DC
	DIP	15	±12	±42	811-1462-5-ND	9.27	9.00	8.86	NMA1512DC
	DIP	15	±15	±33	811-1464-5-ND	9.27	9.00	8.86	NMA1515DC
4	SIP	5	±5	±100	811-1448-5-ND	8.81	8.55	8.42	NMA0505SC
	SIP	5	±9	±55	811-1449-5-ND	8.81	8.55	8.42	NMA0509SC
	SIP	5	±12	±42	811-1451-5-ND	8.81	8.55	8.42	NMA0512SC
	SIP	5	±15	±33	811-1453-5-ND	8.81	8.55	8.42	NMA0515SC
	SIP	12	±5	±100	811-1454-5-ND	8.81	8.55	8.42	NMA1205SC
	SIP	12	±9	±55	811-1455-5-ND	8.81	8.55	8.42	NMA1209SC
	SIP	12	±12	±42	811-1457-5-ND	8.81	8.55	8.42	NMA1212SC
	SIP	12	±15	±33	811-1459-5-ND	8.81	8.55	8.42	NMA1215SC
	SIP	15	±5	±100	811-1461-5-ND	8.81	8.55	8.42	NMA1505SC
	SIP	15	±12	±42	811-1463-5-ND	8.81	8.55	8.42	NMA1512SC
	SIP	15	±15	±33	811-1465-5-ND	8.81	8.55	8.42	NMA1515SC
	SIP	24	±5	±100	811-1467-5-ND	10.15	9.85	9.71	NMA2405SC
	SIP	24	±12	±42	811-1468-5-ND	10.15	9.85	9.71	NMA2412SC
	SIP	24	±15	±33	811-1470-5-ND	10.15	9.85	9.71	NMA2415SC
NMD Series									
4	SIP	5	5/5	100/100	811-1471-5-ND	10.57	10.27	10.11	NMD050505SC
	SIP	5	5/15	100/34	811-1472-5-ND	10.57	10.27	10.11	NMD050515SC
NME Series									
1	DIP	5	5	200	811-1473-5-ND	9.27	9.00	8.86	NME0505DC
	DIP	5	9	111	811-1475-5-ND	9.27	9.00	8.86	NME0509DC
	DIP	5	12	83	811-1477-5-ND	9.27	9.00	8.86	NME0512DC
	DIP	5	15	66	811-1479-5-ND	9.27	9.00	8.86	NME0515DC
	DIP	12	5	200	811-1482-5-ND	9.27	9.00	8.86	NME1205DC
	DIP	12	12	83	811-1484-5-ND	9.27	9.00	8.86	NME1212DC
	DIP	24	5	200	811-1488-5-ND	10.63	10.32	10.16	NME2405DC
	DIP	24	12	83	811-1491-5-ND	10.63	10.32	10.16	NME2412DC
	DIP	24	15	66	811-1493-5-ND	10.63	10.32	10.16	NME2415DC
4	SIP	5	5	200	811-1474-5-ND	8.81	8.55	8.42	NME0505SC
	SIP	5	9	111	811-1476-5-ND	8.81	8.55	8.42	NME0509SC
	SIP	5	12	83	811-1478-5-ND	8.81	8.55	8.42	NME0512SC
	SIP	5	15	66	811-1480-5-ND	8.81	8.55	8.42	NME0515SC
	SIP	5	24	42	811-1481-5-ND	10.15	9.85	9.71	NME0524SC
	SIP	12	5	200	811-1483-5-ND	8.81	8.55	8.42	NME1205SC
	SIP	12	12	83	811-1485-5-ND	8.81	8.55	8.42	NME1212SC
	SIP	12	15	66	811-1486-5-ND	8.81	8.55	8.42	NME1215SC
	SIP	15	15	66	811-1487-5-ND	8.81	8.55	8.42	NME1515SC
	SIP	24	5	200	811-1489-5-ND	10.15	9.85	9.71	NME2405SC
	SIP	24	9	111	811-1490-5-ND	10.15	9.85	9.71	NME2409SC
	SIP	24	12	83	811-1492-5-ND	10.15	9.85	9.71	NME2412SC
	SIP	24	15	66	811-1494-5-ND	10.15	9.85	9.71	NME2415SC
NMF Series									
1	DIP	5	5	100	811-1495-5-ND	8.69	8.44	8.31	NMF0505DC
4	SIP	5	5	100	811-1496-5-ND	8.26	8.02	7.90	NMF0505SC
	SIP	5	12	83	811-1497-5-ND	8.26	8.02	7.90	NMF0512SC
	SIP	5	15	67	811-1498-5-ND	8.26	8.02	7.90	NMF0515SC
	SIP	12	5	100	811-1499-5-ND	8.26	8.02	7.90	NMF1205SC
	SIP	12	12	83	811-1500-5-ND	8.26	8.02	7.90	NMF1212SC
	SIP	12	15	67	811-1501-5-ND	8.26	8.02	7.90	NMF1215SC
	SIP	24	5	100	811-1502-5-ND	9.52	9.24	9.10	NMF2405SC
	SIP	24	15	67	811-1503-5-ND	9.52	9.24	9.10	NMF2415SC
NMG Series									
4	SIP	5	5	400	811-1702-5-ND	11.90	11.55	11.38	NMG0505SC
	SIP	5	9	222	811-1703-5-ND	11.90	11.55	11.38	NMG0509SC
	SIP	5	12	167	811-1704-5-ND	11.90	11.55	11.38	NMG0512SC
	SIP	5	15	133	811-1705-5-ND	11.90	11.55	11.38	NMG0515SC
	SIP	12	5	400	811-1706-5-ND	11.90	11.55	11.38	NMG1205SC
	SIP	12	9	222	811-1707-5-ND	11.90	11.55	11.38	NMG1209SC
	SIP	12	12	167	811-1708-5-ND	11.90	11.55	11.38	NMG1212SC
	SIP	12	15	133	811-1709-5-ND	11.90	11.55	11.38	NMG1215SC
NMH Series									
1	DIP	5	±5	±200	811-1504-5-ND	14.81	14.38	14.16	NMH0505DC
	DIP	5	±9	±111	811-1506-5-ND	14.81	14.38	14.16	NMH0509DC
	DIP	5	±12	±83	811-1508-5-ND	14.81	14.38	14.16	NMH0512DC
	DIP	5	±15	±67	811-1510-5-ND	14.81	14.38	14.16	NMH0515DC
	DIP	5	±24	±42	811-1512-5-ND	17.05	16.55	16.30	NMH0524DC
	DIP	12	±5	±200	811-1513-5-ND	14.81	14.38	14.16	NMH1205DC
	DIP	12	±9	±111	811-1515-5-ND	14.81	14.38	14.16	NMH1209DC
	DIP	12	±12	±83	811-1517-5-ND	14.81	14.38	14.16	NMH1212DC
	DIP	12	±15	±67	811-1519-5-ND	14.81	14.38	14.16	NMH1215DC
	DIP	24	±5	±200	811-1521-5-ND	17.05	16.55	16.30	NMH2405DC
	DIP	24	±12	±83	811-1524-5-ND	17.05	16.55	16.30	NMH2412DC
	DIP	24	±15	±67	811-1526-5-ND	17.05	16.55	16.30	NMH2415DC
4	SIP	5	±5	±200	811-1505-5-ND	14.11	13.70	13.49	NMH0505SC
	SIP	5	±9	±111	811-1507-5-ND	14.11	13.70	13.49	NMH0509SC
	SIP	5	±12	±83	811-1509-5-ND	14.11	13.70	13.49	NMH0512SC
	SIP	5	±15	±67	811-1511-5-ND	14.11	13.70	13.49	NMH0515SC
	SIP	12	±5	±200	811-1514-5-ND	14.11	13.70	13.49	NMH1205SC
	SIP	12	±9	±111	811-1516-5-ND	14.11	13.70	13.49	NMH1209SC
	SIP	12	±12	±83	811-1518-5-ND	14.11	13.70	13.49	NMH1212SC
	SIP	12	±15	±67	811-1520-5-ND	14.11	13.70	13.49	NMH1215SC
	SIP	24	±5	±200	811-1522-5-ND	16.24	15.76	15.52	NMH2405SC
	SIP	24	±9	±111	811-1523-5-ND	16.24	15.76	15.52	NMH2409SC
	SIP	24	±12	±83	811-1525-5-ND	16.24	15.76	15.52	NMH2412SC
	SIP	24	±15	±67	811-1527-5-ND	16.24	15.76	15.52	NMH2415SC
NMJ Series									
4	SIP	3.3	3.3	303	811-1528-5-ND	14.11	13.70	13.49	NMJ0303SAC
	SIP	5	3.3	303	811-1529-5-ND	14.11	13.70	13.49	NMJ0503SAC
	SIP	5	±5	±100	811-1531-5-ND	14.11	13.70	13.49	NMJ0505SC
	SIP	5	5	200	811-1530-5-ND	14.11	13.70	13.49	NMJ0505SAC
	SIP	5	±9	±55	811-1533-5-ND	14.11	13.70	13.49	NMJ0509SC
	SIP	5	9	111	811-1532-5-ND	14.11	13.70	13.49	NMJ0509SAC
	SIP	5	±12	±42	811-1535-5-ND	14.11	13.70	13.49	NMJ0512SC
	SIP	5	12	83	811-1534-5-ND	14.11	13.70	13.49	NMJ0512SAC
	SIP	5	±15	±33	811-1537-5-ND	14.11	13.70	13.49	NMJ0515SC
	SIP	5	15	66	811-1536-5-ND	14.11	13.70	13.49	NMJ0515SAC
	SIP	12	±5	±100	811-1539-5-ND	14.11	13.70	13.49	NMJ1205SC
	SIP	12	5	200	811-1538-5-ND	14.11	13.70	13.49	NMJ1205SAC
	SIP	12	±9	±55	811-1541-5-ND	14.11	13.70	13.49	NMJ1209SC
	SIP	12	9	111	811-1540-5-ND	14.11	13.70	13.49	NMJ1209SAC
	SIP	12	±12	±42	811-1543-5-ND	14.11	13.70	13.49	NMJ1212SC
	SIP	12	12	83	811-1542-5-ND	14.11	13.70	13.49	NMJ1212SAC
	SIP	12	±15	±33	811-1545-5-ND	14.11	13.70	13.49	NMJ1215SC
	SIP	12	15	66	811-1544-5-ND	14.11	13.70	13.49	NMJ1215SAC
NMK Series									
4	SIP	5	5	400	811-1546-5-ND	12.75	12.38	12.19	NMK0505SAC
	SIP	5	9	222	811-1547-5-ND	12.75	12.38	12.19	NMK0509SAC
	SIP	5	12	167	811-1548-5-ND	12.75	12.38	12.19	NMK0512SAC
	SIP	5	15	133	811-1549-5-ND	12.75	12.38	12.19	NMK0515SAC
	SIP	12	5	400	811-1550-5-ND	12.75	12.38	12.19	NMK1205SAC
	SIP	12	9	222	811-1551-5-ND	12.75	12.38	12.19	NMK1209SAC
	SIP	12	12	167	811-1552-5-ND	12.75	12.38	12.19	NMK1212SAC
	SIP	12	15	133	811-1553-5-ND	12.75	12.38	12.19	NMK1215SAC
NML Series									
4	SIP	5	5	400	811-1554-5-ND	14.11	13.70	13.49	NML0505SC
	SIP	5	9	222	811-1555-5-ND	14.11	13.70	13.49	NML0509SC
	SIP	5	12	167	811-1556-5-ND	14.11	13.70	13.49	NML0512SC
	SIP	5	15	133	811-1557-5-ND	14.11	13.70	13.49	NML0515SC
	SIP	12	5	400	811-1558-5-ND	14.11	13.70	13.49	NML1205SC
	SIP	12	9	222	811-1559-5-ND	14.11	13.70	13.49	NML1209SC
	SIP	12	12	167	811-1560-5-ND	14.11	13.70	13.49	NML1212SC
	SIP	12	15	133	811-1561-5-ND	14.11	13.70	13.49	NML1215SC
NMR Series									
4	SIP	5	5	200	811-1566-5-ND	8.81	8.55	8.42	NMR100C
	SIP	5	12	83	811-1567-5-ND	8.81	8.55	8.42	NMR101C
	SIP	5	15	67	811-1568-5-ND	8.81	8.55	8.42	NMR102C
	SIP	12	5	200	811-1569-5-ND	8.81	8.55	8.42	NMR106C
	SIP	12	12	83	811-1570-5-ND	8.81	8.55	8.42	NMR107C
	SIP	12	15	67	811-1571-5-ND	8.81	8.55	8.42	NMR108C
	SIP	24	5	200	811-1572-5-ND	10.15	9.85	9.71	NMR118C
	SIP	24	12	83	811-1573-5-ND	10.15	9.85	9.71	NMR119C
	SIP	24	15	67	811-1574-5-ND	10.15	9.85	9.71	NMR120C
NMS Series									
1	DIP	5	±5	±200	811-1575-5-ND	22.58	21.92	21.58	NMS0505C
	DIP	5	±9	±111	811-1576-5-ND	22.58	21.92	21.58	NMS0509C
	DIP	5	±12	±83	811-1577-5-ND	22.58	21.92	21.58	NMS0512C
	DIP	5	±15	±67	811-1578-5-ND	22.58	21.92	21.58	NMS0515C
	DIP	12	±5	±200	811-1579-5-ND	22.58	21.92	21.58	NMS1205C
	DIP	12	±9	±111	811-1580-5-ND	22.58	21.92	21.58	NMS1209C
	DIP	12	±12	±83	811-1581-5-ND	22.58	21.92	21.58	NMS1212C
	DIP	12	±15	±67	811-1582-5-ND	22.58	21.92	21.58	NMS1215C
NMT Series									
4	SIP	5	-24/-48/-72	42†	811-1583-5-ND	14.54	14.11	13.90	NMT0572SC
	SIP	12	-24/-48/-72	42†	811-1584-5-ND	14.54	14.11	13.90	NMT1272SC
NMV Series									
1	DIP	5	5	200	811-1585-5-ND	11.58	11.24	11.07	NMV0505DAC
	DIP	5	±5	±100	811-1586-5-ND	11.58	11.24	11.07	NMV0505DC
	DIP	12	5	200	811-1595-5-ND	11.58	11.24	11.07	NMV1205DAC
	DIP	12	±15	±33	811-1602-5-ND	11.58	11.24	11.07	NMV1215DC
4	SIP	5	5	200	811-1587-5-ND	11.02	10.70	10.53	NMV0505SAC
	SIP	5	±5	±100	811-1588-5-ND	11.02	10.70	10.53	NMV0505SC
	SIP	5	9	111	811-1589-5-ND	11.02	10.70	10.53	NMV0509SAC
	SIP	5	±9	±55	811-1590-5-ND	11.02	10.70	10.53	NMV0509SC
	SIP	5	12	84	811-1591-5-ND	11.02	10.70	10.53	NMV0512SAC
	SIP	5	±12	±42	811-1592-5-ND	11.02	10.70	10.53	NMV0512SC
	SIP	5	15	67	811-1593-5-ND	11.02	10.70	10.53	NMV0515SAC
	SIP	5	±15	±33	811-1594-5-ND	11.02	10.70	10.53	NMV0515SC
	SIP	12	5	200	811-1596-5-ND	11.02	10.70	10.53	NMV1205SAC
	SIP	12	±5	±100	811-1597-5-ND	11.02	10.70	10.53	NMV1205SC
	SIP	12	9	111	811-1598-5-ND	11.02	10.70	10.53	NMV1209SAC
	SIP	12	±9	±55	811-1599-5-ND	11.02	10.70	10.53	NMV1209SC
	SIP	12	12	84	811-1600-5-ND	11.02	10.70	10.53	NMV1212SAC
	SIP	12	±12	±42	811-1601-5-ND	11.02	10.70	10.53	NMV1212SC
	SIP	12	15	67	811-1603-5-ND	11.02	10.70	10.53	NMV1215SAC
	SIP	12	±15	±33	811-1604-5-ND	11.02	10.70	10.53	NMV1215SC
	SIP	15	5	200	811-1605-5-ND	11.02	10.70	10.53	NMV1505SAC
	SIP	15	±5	±100	811-1606-5-ND	11.02	10.70	10.53	NMV1505SC
	SIP	15	12	84	811-1607-5-ND	11.02	10.70	10.53	NMV1512SAC
	SIP	15	±12	±42	811-1608-5-ND	11.02	10.70	10.53	NMV1512SC
	SIP	15	15	67	811-1609-5-ND	11.02	10.70	10.53	NMV1515SAC
	SIP	15	±15	±33	811-1610-5-ND	11.02	10.70	10.53	NMV1515SC
	SIP	24	±12	±42	811-1611-5-ND	12.68	12.31	12.13	NMV2412SC
	SIP	24	±15	±33	811-1612-5-ND	12.68	12.31	12.13	NMV2415SC

▲ Maximum ‡ IOUT not to exceed total specified wattage ◊ Tray † With all three channels equally loaded *(Continued)*

Power Modules *(Cont.)*

Fig.	Mount-ing Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each			Murata Power Solutions Part No.
						1	5	10	
NMXSO Series									
1	DIP	5	5	1000	811-1618-5-ND	40.27	39.09	38.50	NMXS0505SOC
	DIP	5	12	470	811-1620-5-ND	40.27	39.09	38.50	NMXS0512SOC
	DIP	5	±15	±200	811-1614-5-ND	44.76	43.45	42.79	NMXD0515SOC
	DIP	12	5	1000	811-1622-5-ND	40.27	39.09	38.50	NMXS1205SOC
	DIP	12	±15	±200	811-1616-5-ND	44.76	43.45	42.79	NMXD1215SOC
NMXU Series									
1	DIP	5	5	1000	811-1619-5-ND	27.57	26.77	26.36	NMXS0505UC
	DIP	5	12	417	811-1621-5-ND	27.57	26.77	26.36	NMXS0512UC
	DIP	5	±15	±167	811-1615-5-ND	30.46	29.57	29.12	NMXD0515UC
	DIP	12	5	1000	811-1623-5-ND	27.57	26.77	26.36	NMXS1205UC
	DIP	12	±15	±167	811-1617-5-ND	30.46	29.57	29.12	NMXD1215UC
NPH Series									
1	DIP	24	3.4	2940	811-1624-5-ND	36.35	35.28	34.75	NPH10S2403IC
	DIP	24	3.4	4400	811-1634-5-ND	48.37	46.95	46.24	NPH15S2403IC
	DIP	24	3.4	7300	811-1645-5-ND	55.23	53.61	52.80	NPH25S2403IC
	DIP	24	5.1	1960	811-1625-5-ND	36.35	35.28	34.75	NPH10S2405EIC
	DIP	24	5.1	1960	811-1626-5-ND	36.35	35.28	34.75	NPH10S2405IC
	DIP	24	5.1	3000	811-1635-5-ND	48.37	46.95	46.24	NPH15S2405EIC
	DIP	24	5.1	3000	811-1636-5-ND	48.37	46.95	46.24	NPH15S2405IC
	DIP	24	5.1	5000	811-1646-5-ND	55.23	53.61	52.80	NPH25S2405EIC
	DIP	24	5.1	5000	811-1647-5-ND	55.23	53.61	52.80	NPH25S2405IC
	DIP	24	12.1	830	811-1627-5-ND	36.35	35.28	34.75	NPH10S2412EIC
	DIP	24	12.1	830	811-1628-5-ND	36.35	35.28	34.75	NPH10S2412IC
	DIP	24	12.1	1300	811-1637-5-ND	48.37	46.95	46.24	NPH15S2412EIC
	DIP	24	12.1	1300	811-1638-5-ND	48.37	46.95	46.24	NPH15S2412IC
	DIP	24	12.1	2100	811-1648-5-ND	55.23	53.61	52.80	NPH25S2412IC
	DIP	24	15.1	670	811-1629-5-ND	36.35	35.28	34.75	NPH10S2415IC
	DIP	24	15.1	1000	811-1639-5-ND	48.37	46.95	46.24	NPH15S2415IC
	DIP	24	15.1	1700	811-1649-5-ND	55.23	53.61	52.80	NPH25S2415EIC
	DIP	24	15.1	1700	811-1650-5-ND	55.23	53.61	52.80	NPH25S2415IC
	DIP	48	3.4	2940	811-1630-5-ND	36.35	35.28	34.75	NPH10S4803IC
	DIP	48	3.4	4400	811-1640-5-ND	48.37	46.95	46.24	NPH15S4803EIC
	DIP	48	3.4	4400	811-1641-5-ND	48.37	46.95	46.24	NPH15S4803IC
	DIP	48	3.4	7300	811-1651-5-ND	55.23	53.61	52.80	NPH25S4803EIC
	DIP	48	3.4	7300	811-1652-5-ND	55.23	53.61	52.80	NPH25S4803IC
	DIP	48	5.1	1960	811-1631-5-ND	36.35	35.28	34.75	NPH10S4805EIC
	DIP	48	5.1	1960	811-1632-5-ND	36.35	35.28	34.75	NPH10S4805IC
	DIP	48	5.1	3000	811-1642-5-ND	48.37	46.95	46.24	NPH15S4805IC
	DIP	48	5.1	5000	811-1653-5-ND	55.23	53.61	52.80	NPH25S4805EIC
	DIP	48	5.1	5000	811-1654-5-ND	55.23	53.61	52.80	NPH25S4805IC
	DIP	48	12.1	830	811-1633-5-ND	36.35	35.28	34.75	NPH10S4812IC
	DIP	48	12.1	1300	811-1643-5-ND	48.37	46.95	46.24	NPH15S4812IC
	DIP	48	12.1	2100	811-1655-5-ND	55.23	53.61	52.80	NPH25S4812IC
	DIP	48	15.1	1000	811-1644-5-ND	48.37	46.95	46.24	NPH15S4815IC
NTA Series									
2	SMD	3.3	±5	±100	811-1662-5-ND	8.81	8.55	8.42	NTA0305MC
	SMD	3.3	±15	±33	811-1663-5-ND	8.81	8.55	8.42	NTA0315MC
	SMD	5	±3.3	±152	811-1664-5-ND	8.81	8.55	8.42	NTA0503MC
	SMD	5	±5	±100	811-1665-5-ND	8.81	8.55	8.42	NTA0505MC
	SMD	5	±9	±55	811-1666-5-ND	8.81	8.55	8.42	NTA0509MC
	SMD	5	±12	±42	811-1667-5-ND	8.81	8.55	8.42	NTA0512MC
	SMD	5	±15	±33	811-1668-5-ND	8.81	8.55	8.42	NTA0515MC
	SMD	12	±5	±100	811-1669-5-ND	8.81	8.55	8.42	NTA1205MC
	SMD	12	±9	±55	811-1670-5-ND	8.81	8.55	8.42	NTA1209MC
	SMD	12	±12	±42	811-1671-5-ND	8.81	8.55	8.42	NTA1212MC
	SMD	12	±15	±33	811-1672-5-ND	8.81	8.55	8.42	NTA1215MC
NTE Series									
2	SMD	3.3	3.3	303	811-1673-5-ND	8.81	8.55	8.42	NTE0303MC
	SMD	3.3	5	200	811-1674-5-ND	8.81	8.55	8.42	NTE0305MC
	SMD	3.3	9	111	811-1675-5-ND	8.81	8.55	8.42	NTE0309MC
	SMD	3.3	12	83	811-1676-5-ND	8.81	8.55	8.42	NTE0312MC
	SMD	3.3	15	66	811-1677-5-ND	8.81	8.55	8.42	NTE0315MC
	SMD	5	3.3	303	811-1678-5-ND	8.81	8.55	8.42	NTE0503MC
	SMD	5	5	200	811-1679-5-ND	8.81	8.55	8.42	NTE0505MC
	SMD	5	5	200	811-1680-5-ND	8.81	8.55	8.42	NTE0505MEC
	SMD	5	6	167	811-1681-5-ND	8.81	8.55	8.42	NTE0506MC
	SMD	5	9	111	811-1682-5-ND	8.81	8.55	8.42	NTE0509MC
	SMD	5	12	83	811-1683-5-ND	8.81	8.55	8.42	NTE0512MC
	SMD	5	15	66	811-1684-5-ND	8.81	8.55	8.42	NTE0515MC
	SMD	12	5	200	811-1685-5-ND	8.81	8.55	8.42	NTE1205MC
	SMD	12	9	111	811-1686-5-ND	8.81	8.55	8.42	NTE1209MC
	SMD	12	12	83	811-1687-5-ND	8.81	8.55	8.42	NTE1212MC
	SMD	12	15	66	811-1688-5-ND	8.81	8.55	8.42	NTE1215MC
NTF Series									
2	SMD	5	5	200	811-2001-5-ND	11.90	11.55	11.38	NTFS0505MC
	SMD	5	12	83	811-2002-5-ND	11.90	11.55	11.38	NTFS0512MC
	SMD	5	15	66	811-2003-5-ND	11.90	11.55	11.38	NTFS0515MC
	SMD	12	5	200	811-2004-5-ND	11.90	11.55	11.38	NTFS1205MC
	SMD	12	12	83	811-2005-5-ND	11.90	11.55	11.38	NTFS1212MC
	SMD	12	15	66	811-2006-5-ND	11.90	11.55	11.38	NTFS1215MC
	SMD	24	5	200	811-2007-5-ND	11.90	11.55	11.38	NTFS2405MC
	SMD	24	12	83	811-2008-5-ND	11.90	11.55	11.38	NTFS2412MC
	SMD	24	15	66	811-2009-5-ND	11.90	11.55	11.38	NTFS2415MC

Fig.	Mount-ing Type	Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Digi-Key Part No.	Tube Price Each			Murata Power Solutions Part No.
						1	5	10	
NTH Series									
2	SMD	5	±5	±200	811-1689-5-ND	14.11	13.70	13.49	NTH0505MC
	SMD	5	±12	±83	811-1690-5-ND	14.11	13.70	13.49	NTH0512MC
	SMD	5	±15	±67	811-1691-5-ND	14.11	13.70	13.49	NTH0515MC
	SMD	12	±5	±200	811-1692-5-ND	14.11	13.70	13.49	NTH1205MC
	SMD	12	±12	±83	811-1693-5-ND	14.11	13.70	13.49	NTH1212MC
NTV Series									
2	SMD	5	±5	±100	811-1694-5-ND	11.02	10.70	10.53	NTV0505MC
	SMD	5	±9	±55	811-1695-5-ND	11.02	10.70	10.53	NTV0509MC
	SMD	5	±12	±42	811-1696-5-ND	11.02	10.70	10.53	NTV0512MC
	SMD	5	±15	±33	811-1697-5-ND	11.02	10.70	10.53	NTV0515MC
	SMD	12	±5	±100	811-1698-5-ND	11.02	10.70	10.53	NTV1205MC
	SMD	12	±9	±55	811-1699-5-ND	11.02	10.70	10.53	NTV1209MC
	SMD	12	±12	±42	811-1700-5-ND	11.02	10.70	10.53	NTV1212MC
	SMD	12	±15	±33	811-1701-5-ND	11.02	10.70	10.53	NTV1215MC
PWR Series									
1	DIP	5	±5	±150	811-1813-5-ND	33.97	32.97	32.47	PWR1303AC
	DIP	5	5	300	811-1812-5-ND	31.94	31.01	30.54	PWR1300AC
	DIP	5	±15	±50	811-1814-5-ND	33.97	32.97	32.47	PWR1305AC
	DIP	12	5	300	811-1815-5-ND	31.94	31.01	30.54	PWR1306AC
	DIP	12	±12	±63	811-1817-5-ND	33.97	32.97	32.47	PWR1310AC
	DIP	12	±15	±50	811-1818-5-ND	33.97	32.97	32.47	PWR1311AC
	DIP	12	±15	±90▲	811-1820-5-ND	40.82	39.62	39.02	PWR1726AC
	DIP	12	15	100	811-1816-5-ND	31.94	31.01	30.54	PWR1308AC
	DIP	15	±15	±50	811-1819-5-ND	33.97	32.97	32.47	PWR1317AC
	DIP	15	±15	±100▲	811-1821-5-ND	67.22	65.25	64.26	PWR70C
TWR Series									
1	DIP	12	3.3/±12	4A/300	811-1822-5-ND	68.00	66.00	65.00	TWR-3.3/4-12/300-D12-C
	DIP	12	5/±12	1A/±210	811-1826-5-ND	93.72	90.97	89.59	TWR-5/1000-12/210-D12A-C
	DIP	12	5/±12	3A/±500‡	811-1829-5-ND	111.57	108.29	106.65	TWR-5/3000-12/500-D12A-C
	DIP	12	5/±15	3A/±500‡	811-1830-5-ND	111.57	108.29	106.65	TWR-5/3000-15/500-D12A-C
	DIP	24	3.3/±15	4A/250	811-1823-5-ND	66.30	64.35	63.38	TWR-3.3/4-15/250-D24-C
	DIP	24	5/±12	3A/300	811-1824-5-ND	66.30	64.35	63.38	TWR-5/3-12/300-D24-C
	DIP	24	5/±15	1A/±200	811-1827-5-ND	91.04	88.36	87.02	TWR-5/1000-15/200-D24A-C
	DIP	24	5/±15	3A/250	811-1825-5-ND	66.30	64.35	63.38	TWR-5/3-15/250-D24-C
	DIP	48	5/±12	1.5A/±250	811-1828-5-ND	118.71	115.22	113.48	TWR-5/1500-12/250-D48A-C
	DIP	48	5/±15	3A/±500‡	811-1831-5-ND	111.57	108.29	106.65	TWR-5/3000-15/500-D48A-C
UHE Series									
1	DIP	24	3.3	7500	811-1880-5-ND	68.85	66.83	65.82	UHE-3.3/7500-Q12-C
	DIP	24	5	5000	811-1882-5-ND	68.85	66.83	65.82	UHE-5/5000-Q12-C
	DIP	24	5	6000	811-1884-5-ND	68.85	66.83	65.82	UHE-5/6000-Q12-C
	DIP	24	12	2500	811-1876-5-ND	68.85	66.83	65.82	UHE-12/2500-Q12-C
	DIP	24	15	2000	811-1878-5-ND	68.85	66.83	65.82	UHE-15/2000-Q12-C
	DIP	48	3.3	7500	811-1881-5-ND	64.60	62.70	61.75	UHE-3.3/7500-Q48N-C
	DIP	48	5	5000	811-1883-5-ND	64.60	62.70	61.75	UHE-5/5000-Q48N-C
	DIP	48	5	6000	811-1885-5-ND	64.60	62.70	61.75	UHE-5/6000-Q48T-C
	DIP	48	12	2500	811-1877-5-ND	64.60	62.70	61.75	UHE-12/2500-Q48N-C
	DIP	48	15	2000	811-1879-5-ND	64.60	62.70	61.75	UHE-15/2000-Q48N-C
UST Series									
1	DIP	5	5	500▲	811-1896-5-ND	41.96	40.73	40.11	UST-5/500-D5-C
	DIP	5	15	200▲	811-1894-5-ND	41.96	40.73	40.11	UST-15/200-D5-C
	DIP	48	5	500▲	811-1895-5-ND	38.25	37.13	36.57	UST-5/500-D48-C
UWR Series									
1	DIP	5	5	1600	811-1918-5-ND	89.25	86.63	85.32	UWR-5/1600-D5A-C
	DIP	5	5	3000	811-1903-5-ND	99.96	97.02	95.55	UWR-5/3000-D5A-C
	DIP	5	5.2	1500	811-1923-5-ND	89.25	86.63	85.32	UWR-5.2/1500-D5A-C
	DIP	5	12	250▲	811-1911-5-ND	57.12	55.44	54.60	UWR-12/250-D5-C
	DIP	5	12	665	811-1915-5-ND	89.25	86.63	85.32	UWR-12/665-D5A-C
	DIP	12	5	2000	811-1920-5-ND	85.68	83.16	81.90	UWR-5/2000-D12A-C
	DIP	12	5	7000	811-1927-5-ND	76.50	74.25	73.13	UWR-5/7-D12A-C
	DIP	12	12	830	811-1917-5-ND	89.25	86.63	85.32	UWR-12/830-D12A-C
	DIP	12	12	1250	811-1901-5-ND	57.83	56.14	55.29	UWR-12/1250-D12A-C
	DIP	24	3.3	4250	811-1897-5-ND	53.55	51.98	51.19	UWR-3.3/4250-D24A-C
	DIP	24	3.3	4250	811-1898-5-ND	53.55	51.98	51.19	UWR-3.3/4250-D24ACT-C
	DIP	24	5	1000▲	811-1914-5-ND	69.62	67.57	66.55	UWR-5/1000-D24-C
	DIP	24	5	2000	811-1921-5-ND	91.04	88.36	87.02	UWR-5/2000-D24E-C
	DIP	24	5	3000	811-1928-5-ND	53.55	51.98	51.19	UWR-5/3000-D24A-C
	DIP	24	5	4000	811-1904-5-ND	99.96	97.02	95.55	UWR-5/4000-D12A-C
	DIP	24	5	8000	811-1925-5-ND	71.40	69.30	68.25	UWR-5/8-D24A-C
	DIP	24	12	420▲	811-1912-5-ND	50.98	49.49	48.74	UWR-12/420-D24-C
	DIP	24	12	1250	811-1902-5-ND	53.55	51.98	51.19	UWR-12/1250-D24A-C
	DIP	24	12	1650	811-1907-5-ND	99.96	97.02	95.55	UWR-12/1650-D12A-C
	DIP	24	15	335▲	811-1913-5-ND	69.62	67.57	66.55	UWR-15/335-D24-C
	DIP	24	15	1300	811-1909-5-ND	99.96	97.02	95.55	UWR-15/1300-D12A-C
	DIP	48	3.3	4250	811-1899-5-ND	38.34	37.21	36.65	UWR-3.3/4250-D48A-C
	DIP	48	3.3	4250	811-1900-5-ND	38.34	37.21	36.65	UWR-3.3/4250-D48ACT-C
	DIP	48	3.3	9000	811-1924-5-ND	67.15	65.18	64.19	UWR-3.3/9-D48A-C
	DIP	48	5	1800	811-1919-5-ND	89.25	86.63	85.32	UWR-5/1800-D48A-C
	DIP	48	5	2000	811-1922-5-ND	89.25	86.63	85.32	UWR-5/2000-D48E-C
	DIP	48	5	3000	811-1929-5-ND	38.34	37.21	36.65	UWR-5/3000-D48A-C
	DIP	48	5	4000	811-1905-5-ND	108.89	105.69	104.09	UWR-5/4000-D48A-C
	DIP	48	5	4000	811-1906-5-ND	108.89	105.69	104.09	UWR-5/4000-D48E-C
	DIP	48	5	8000	811-1926-5-ND	67.15	65.18	64.19	UWR-5/8-D48A-C
	DIP	48	12	1650	811-1908-5-ND	108.89	105.69	104.09	UWR-12/1650-D48A-C
	DIP	48	12	750	811-1916-5-ND	89.25	86.63	85.32	UWR-12/750-D48A-C
	DIP	48	15	1300	811-1910-5-ND	108.89	105.69	104.09	UWR-15/1300-D48A-C

▲ Maximum ‡ IOUT not to exceed total specified wattage ◊ Tray † With all three channels equally loaded

Higher Power DC/DC

BEI15 Series: • 15W output in one square inch of board area • Isolated DC/DC converter family offers efficient regulated DC power for printed circuit board mounting • Includes fulled magnetic and optical isolation with Basic protection up to 2250VDC (Q48 models) and 200VDC (Q12 models) • Usable -40°C ~ 85°C Temperature Range (with derating) • Extensive self-protection shut down features • Meets UL60950-1, CAN/CSA-C22.2 No. 60950-1, IEC60950-1, EN60950-1 safety approvals

HPH Series: • Industry-standard package/pinout • Remote sense, trim, On/Off control • High efficiency: up to 91% • Designed to meet UL/EN/IEC 60950-1, CAN/CSA-C22.2 No. 60950-1 • CE mark

HPQ Series: • High efficiency synchronous rectifier topology • Operating temperature: -40°C ~ 85°C, with no heat sink required • Designed to meet UL/EN 60950-1, CSA-C22.2 No. 60950-1

LSM2 Series: • Fully compatible with Distributed-power Open Standards Alliance specification. • Quick transient response (to 25µ sec.) and very fast current slew rates (to 20A/µsec). *LSM2-T/30 Series:* D12 series DC/DC converters offer up to 30A continuous output power with a user-selectable output of 0.8~3.6V. 25A output is available up to 5Vout.

LSN Series: These are ideal building blocks for emerging, on-board power-distribution schemes in which isolated 12V buses deliver power to any number of non-isolated, step-down buck regulators.

LSN2 Series: These miniature point-of-load (POL) switching DC/DC converters are ideal regulation and supply elements for distributed power and intermediate bus architectures.

LSS Series: • Vertical SIP-mount small footprint package • Outstanding thermal performance and derating • On/Off control and trim functions • High efficiency up to 93% with no heatsink • Fully protected against temperature and voltage limits • Designed to meet UL/IEC/EN 60950-1 • Qual/HALT/EMI testing is scheduled

UCE Series: • Low profile 0.4" height with 0.9" x 2.3" outline dimensions • Designed to meet UL/EN/IEC 60950-1 and CAN/CSA C22.2 No. 60950-1

UCH Series: • Standard "half-brick" configuration • Designed to meet UL/EN60950-1 (BASIC insulation) • Output current limiting and short-circuit protection • On/Off, VOUT trim and sense functions

UCQ Series: • Interleaved synchronous-rectifier topology; Ultra high efficiency, No output reverse conduction • Outstanding thermal performance • On/Off control, trim and sense functions • Fully isolated, 2250VDC (BASIC) • Output over voltage protection • Designed to meet UL/EN/IEC60950-1 • Qual/HALT/EMI tested

UEI25-120 Series: • Small footprint DC/DC converter, ideal for high current applications • Isolation up to 2250VDC (basic) • Up to 25W total output power with overtemperature shutdown • High efficiency synchronous rectifier forward topology • Stable operation with no required external components • Usable -40°C ~ 85°C Temperature Range (with derating) • Meets UL60950-1, CAN/CSA-C22.2 No. 60950-1, IEC60950-1, EN60950-1 safety approvals (2nd edition) • Extensive self-protection shut down features

ULS Series: • Small footprint DC/DC converter, ideal for high current applications • Industry standard DOSA "brick" format and pinout • 2250Volt Basic input/output isolation (48V models) • Up to 66W total output power with overtemperature shutdown • High efficiency synchronous rectifier forward topology • Stable no-load operation with no required external components • Operating Temperature Range: -40°C ~ 85°C with derating • UL60950-1, CSA-C22.2 No. 234, EN60950-1 safety approvals, 2nd Edition (pending) • Extensive self-protection shut down features

UQQ Series: • Interleaved synchronous-rectifier topology; Ultra high efficiency, No output reverse conduction • Outstanding thermal performance • On/Off control, trim and sense functions • Fully isolated, up to 2250VDC (BASIC) • Output over voltage protection • Fully I/O protected; Thermal shutdown • UL/EN/IEC60950-1

UWE Series: • Fixed output from 3.3 ~ 24VDC up to 75W • Synchronous rectification yields very high efficiency and low power dissipation • Operating Temperature Range from -40°C ~ 85°C with derating • Up to 1500VDC isolation (basic insulation) • Outstanding thermal performance and derating • Extensive self-protection, overtemperature and overload features with no output reverse conduction • On/Off control, trim and remote sense functions • Meets UL/EN/IEC 60950-1, CAN/CSA-C22.2 No. 60950-1 safety approvals and FCC RFI/EMI certification • Pre-bias operation for startup protection

VCN Series: • Supports Double Data Rate SDRAM specifications DDR1, 2, 3 and similar requirements • Programmable output voltage • Soft start circuit • Over-voltage protection • Over-current protection • Over-temperature protection • Differential remote sense • Power good signal • Output enable • High efficiency • "1U" height • Pre-bias turn on • Fused input

VKA Series: • 33~75V Input range • 100µS Transient response 50~100% Load step • 420kHz Fixed-frequency operation • Remote sense • Operation to 100°C base plate temperature • Primary remote On/Off, choice of positive/negative logic • Adjustable output voltage • Continuous short-circuit protection • Thermal shutdown • Case ground pin

VKP Series: • 18~40V and 33~75V Input range • Each channel independently current limited • High efficiency: 87% typical • Excellent cross regulation • 1500VDC Isolation between Input and Output • Fixed frequency operation • Operation to 100°C base plate temperature • 50µS Transient recovery • Primary and secondary remote On/Off • Adjustable output voltage • External synchronization

VSX Series: These are dual output converters with 18~36VDC and 5VDC outputs. The industry quarter-pak size of 2.3" x 1.5" x 0.5" coupled with 90% efficiency is an industry high-density breakthrough.

Fig. 1 *NEW!*

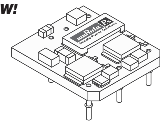

Fig. 2

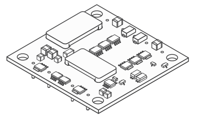

Fig. 3

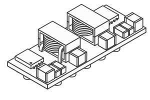

Fig. 4

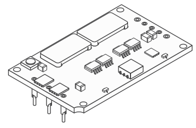

Fig. 5

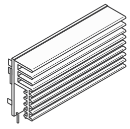

Fig. 6

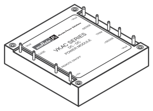

Fig. 7

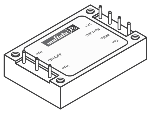

Fig. 8 *NEW!*

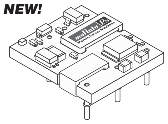

Fig. 9 *NEW!*

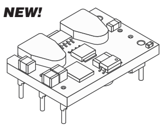

VOUT (V)	IOUT (A)	Power (W)	On/Off Control Polarity	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
NEW! Fig. 1 — BEI15 Series - Isolated Wide Input Bipolar NEW!								
±5	1.5▼	15	Negative	811-2180-5-ND	37.30	36.21	35.66	BEI15-050-Q12N-C
±5	1.5▼	15	Positive	811-2181-5-ND	36.72	35.64	35.10	BEI15-050-Q12P-C
±5	1.5▼	15	Negative	811-2182-5-ND	36.72	35.64	35.10	BEI15-050-Q48N-C
±5	1.5▼	15	Positive	811-2183-5-ND	37.30	36.21	35.66	BEI15-050-Q48P-C
±12	.625▼	15	Negative	811-2184-5-ND	37.30	36.21	35.66	BEI15-120-Q12N-C
±12	.625▼	15	Positive	811-2185-5-ND	36.72	35.64	35.10	BEI15-120-Q12P-C
±12	.625▼	15	Negative	811-2186-5-ND	36.72	35.64	35.10	BEI15-120-Q48N-C
±12	.625▼	15	Positive	811-2187-5-ND	37.30	36.21	35.66	BEI15-120-Q48P-C
±15	.5▼	15	Negative	811-2188-5-ND	37.30	36.21	35.66	BEI15-150-Q12N-C
±15	.5▼	15	Positive	811-2189-5-ND	36.72	35.64	35.10	BEI15-150-Q12P-C
±15	.5▼	15	Negative	811-2190-5-ND	36.72	35.64	35.10	BEI15-150-Q48N-C
±15	.5▼	15	Positive	811-2191-5-ND	37.30	36.21	35.66	BEI15-150-Q48P-C
Fig. 2 — HPH Series - Isolated, Half-Brick								
3.3	70◊▼	231	Negative	811-1754-5-ND	101.08	98.11	96.63	HPH-3.3/70-D48NB-C
5.0	40▼	200	Negative	811-1755-5-ND	97.33	94.47	93.04	HPH-5/40-D48NB-C
12	30◊▼	360	Negative	811-1753-5-ND	99.47	96.55	95.08	HPH-12/30-D48NB-C
Fig. 2 — HPQ Series - Isolated, High Power Quarter-Brick								
3.3	50▼	165	Negative	811-1756-5-ND	88.72	86.12	84.81	HPQ-3.3/50-D48NB-C
Fig. 3 — LSM2 Series - Single Output, Non-Isolated, POL								
0.75 ~ 3.3	6	19.8	Positive	811-1781-1-ND†	23.38	22.10	20.40	LSM2-T/6-W3-C
0.75 ~ 3.3	6	19.8	Positive	811-1781-2-ND‡	2231.25/150			LSM2-T/6-W3-C
0.75 ~ 3.3	6	19.8	Negative	811-1782-1-ND†	23.38	22.10	20.40	LSM2-T/6-W3N-C
0.75 ~ 3.3	6	19.8	Negative	811-1782-2-ND‡	2231.25/150			LSM2-T/6-W3N-C
0.75 ~ 5.0	6	30	Positive	811-1783-1-ND†	23.38	22.10	20.40	LSM2-T/6-D12-C
0.75 ~ 5.0	6	30	Positive	811-1783-2-ND‡	2231.25/150			LSM2-T/6-D12-C
0.75 ~ 5.0	6	30	Negative	811-1784-1-ND†	23.38	22.10	20.40	LSM2-T/6-D12N-C
0.75 ~ 5.0	6	30	Negative	811-1784-2-ND‡	2231.25/150			LSM2-T/6-D12N-C
0.75 ~ 3.3	10	33	Positive	811-1785-1-ND†	35.75	33.80	31.20	LSM2-T/10-W3-C
0.75 ~ 3.3	10	33	Positive	811-1785-2-ND‡	3412.50/150			LSM2-T/10-W3-C
0.75 ~ 3.3	10	33	Negative	811-1786-1-ND†	35.75	33.80	31.20	LSM2-T/10-W3N-C
0.75 ~ 3.3	10	33	Negative	811-1786-2-ND‡	3412.50/150			LSM2-T/10-W3N-C
0.75 ~ 5.0	10	50	Positive	811-1787-1-ND†	35.75	33.80	31.20	LSM2-T/10-D12-C
0.75 ~ 5.0	10	50	Positive	811-1787-2-ND‡	3412.50/150			LSM2-T/10-D12-C
0.75 ~ 3.3	16	52.8	Positive	811-1788-1-ND†	37.13	35.10	32.40	LSM2-T/16-W3-C
0.75 ~ 3.3	16	52.8	Positive	811-1788-2-ND‡	3543.75/150			LSM2-T/16-W3-C
0.75 ~ 3.3	16	52.8	Negative	811-1789-1-ND†	37.13	35.10	32.40	LSM2-T/16-W3N-C
0.75 ~ 3.3	16	52.8	Negative	811-1789-2-ND‡	3543.75/150			LSM2-T/16-W3N-C
0.75 ~ 5.0	16	80	Positive	811-1790-1-ND†∆	37.13	35.10	32.40	LSM2-T/16-D12-C
0.75 ~ 5.0	16	80	Positive	811-1790-2-ND‡∆	3543.75/150			LSM2-T/16-D12-C
0.75 ~ 5.0	16	80	Negative	811-1791-1-ND†∆	37.13	35.10	32.40	LSM2-T/16-D12N-C
0.75 ~ 5.0	16	80	Negative	811-1791-2-ND‡∆	3543.75/150			LSM2-T/16-D12N-C
0.8 ~ 5.0	30	125	—	811-1792-ND§	26.25	25.48	25.09	LSM2-T/30-D12-C
0.8 ~ 5.0	30	125	—	811-1793-ND§	27.32	26.52	26.12	LSM2-T/30-D12R-C
Fig. 3 — LSN Series - Non-Isolated, Single Output								
0.75 ~ 5.25	10	51	Positive	811-1807-5-ND	21.25	20.63	20.32	LSN-T/10-D12-C
0.75 ~ 5.25	10	51	Negative	811-1808-5-ND	21.25	20.63	20.32	LSN-T/10-D12N-C
0.75 ~ 5.0	16	80▼	—	811-1809-5-ND	21.68	21.04	20.72	LSN-T/16-D12-C
0.75 ~ 3.3	16	52.8	—	811-1810-5-ND	21.68	21.04	20.72	LSN-T/16-W3-C
Fig. 3 — LSN2 Series - Non-Isolated, DOSA-SIP								
0.75 ~ 3.3	6	19.8	Positive	811-1794-ND††	12.75	12.38	12.19	LSN2-T/6-W3-C
0.75 ~ 3.3	6	19.8	Negative	811-1795-ND††	12.75	12.38	12.19	LSN2-T/6-W3N-C
0.75 ~ 5.0	6	30	Positive	811-1796-ND††	12.75	12.38	12.19	LSN2-T/6-D12-C
0.75 ~ 5.0	6	30	Negative	811-1797-ND††	12.75	12.38	12.19	LSN2-T/6-D12N-C
0.75 ~ 3.3	10	33	Positive	811-1798-ND††	21.25	20.63	20.32	LSN2-T/10-W3-C
0.75 ~ 3.3	10	33	Negative	811-1799-ND††	21.25	20.63	20.32	LSN2-T/10-W3N-C
0.75 ~ 5.0	10	50	Positive	811-1800-ND††	21.25	20.63	20.32	LSN2-T/10-D12-C
0.75 ~ 5.0	10	50	Negative	811-1801-ND††	21.25	20.63	20.32	LSN2-T/10-D12N-C
0.75 ~ 3.3	16	52.8	Positive	811-1802-5-ND	22.95	22.28	21.94	LSN2-T/16-W3-C
0.75 ~ 3.3	16	52.8	Negative	811-1803-5-ND	22.95	22.28	21.94	LSN2-T/16-W3N-C
0.75 ~ 5.0	16	80	Positive	811-1804-5-ND∆	22.95	22.28	21.94	LSN2-T/16-D12-C
0.75 ~ 5.0	16	80	Negative	811-1805-5-ND∆	22.95	22.28	21.94	LSN2-T/16-D12N-C
0.8 ~ 5.0	30	150	—	811-1806-5-ND	26.25	25.48	25.09	LSN2-T/30-D12-C
Fig. 4 — LSS Series - Non-Isolated, SIP-mount, Adjustable Output								
0.591 ~ 6.0	10▼	60	—	811-1811-ND††	12.33	11.97	11.79	LSS-T/10-W12-C
Fig. 4 — UCE Series - Isolated, High Density, Eighth-Brick								
1.5	20	30	Negative	811-1832-5-ND	67.75	65.76	64.76	UCE-1.5/20-D48NB-C
3.3	15	49.5	Negative	811-1837-5-ND	67.75	65.76	64.76	UCE-3.3/15-D48NB-C
3.3	30	99	Negative	811-1838-5-ND	71.52	69.42	68.37	UCE-3.3/30-D48NB-C
12	4.2	50.4	Negative	811-1834-5-ND	67.75	65.76	64.76	UCE-12/4.2-D48NB-C
12	10	120	Negative	811-2210-5-ND ***NEW!***	76.89	74.63	73.50	UCE-12/10-D48NB-C
12	10	120	Negative	811-2211-5-ND ***NEW!***	68.02	66.02	65.02	UCE-12/10-D48N-C
Fig. 4 — UCH Series - Isolated, Half-Brick								
1.8	40	72	Negative	811-1839-5-ND	81.74	79.34	78.13	UCH-1.8/40-D48NB-C
2.5	40	100	Negative	811-1843-5-ND	81.74	79.34	78.13	UCH-2.5/40-D48NB-C
3.3	10	33	Positive	811-1844-5-ND	73.66	71.50	70.42	UCH-3.3/10-D24PB-C
3.3	10	33	Negative	811-1845-5-ND	71.52	69.42	68.37	UCH-3.3/10-D48NB-C
3.3	15	49.5	Negative	811-1846-5-ND	74.75	72.55	71.46	UCH-3.3/15-D48NB-C
3.3	30	99	Negative	811-1847-5-ND	77.96	75.67	74.53	UCH-3.3/30-D48NB-C
3.3	35	115.5	Positive	811-1848-5-ND	80.12	77.77	76.59	UCH-3.3/35-D24PB-C
5.0	10	50	Negative	811-1849-5-ND	74.75	72.55	71.46	UCH-5/10-D48NB-C
5.0	20	100	Positive	811-1850-5-ND	80.12	77.77	76.59	UCH-5/20-D24PB-C
5.0	30	150	Negative	811-1851-5-ND	81.74	79.34	78.13	UCH-5/30-D48NB-C
12	4.2	50.4	Negative	811-1841-5-ND	74.75	72.55	71.46	UCH-12/4.2-D48NB-C
12	12.5	150	Negative	811-1840-5-ND	83.88	81.42	80.18	UCH-12/12.5-D48NB-C
15	6.7	100.5	Negative	811-1842-5-ND	83.88	81.42	80.18	UCH-15/6.7-D48NB-C
Fig. 4 — UCQ Series - Isolated, Low-Profile Single Output Quarter-Brick								
1.2	30	36	Negative	811-1852-5-ND	75.28	73.07	71.96	UCQ-1.2/30-D48NB-C
1.5	25	37.5	Negative	811-1853-5-ND	75.28	73.07	71.96	UCQ-1.5/25-D48NB-C
1.5	40	60	Negative	811-1854-5-ND	69.36	67.32	66.30	UCQ-1.5/40-D48N-C
1.8	30	54	Negative	811-1855-5-ND	75.28	73.07	71.96	UCQ-1.8/30-D48NB-C
2.5	30	75	Negative	811-1857-5-ND	75.28	73.07	71.96	UCQ-2.5/30-D48NB-C
2.5	40	100	Positive	811-1858-5-ND	80.12	77.77	76.59	UCQ-2.5/40-D24PB-C
3.3	20	66	Negative	811-1859-5-ND	68.29	66.28	65.28	UCQ-3.3/20-D48NB-C
3.3	30	99	Negative	811-1860-5-ND	71.52	69.42	68.37	UCQ-3.3/30-D48NB-C
3.3	35	115.5	Positive	811-1861-5-ND	99.88	96.94	95.47	UCQ-3.3/35-D24PB-C
5.0	20	100	Positive	811-1862-5-ND	73.66	71.50	70.42	UCQ-5/20-D24PB-C
5.0	20	100	Negative	811-1863-5-ND	71.52	69.42	68.37	UCQ-5/20-D48NB-C
12	8.3	99.6	Negative	811-1856-5-ND	71.52	69.42	68.37	UCQ-12/8.3-D48NB-C
NEW! Fig. 8 — UEI25-120 Series – Isolated, Single Output DC/DC NEW!								
3.3	7.5	25	Negative	811-2224-ND	27.54	26.73	26.33	UEI25-033-D48N-C
5	5	25	Negative	811-2223-ND	28.11	27.29	26.88	UEI25-050-D48N-C
12	2.1	25.2	Negative	811-2222-ND	27.54	26.73	26.33	UEI25-120-D48N-C
NEW! Fig. 9 — ULS Series - Isolated, Sixteenth-Brick NEW!								
3.3	20	66	Negative	811-2197-ND	38.15	37.03	36.47	ULS-3.3/20-D48N-C
12	5	60	Negative	811-2198-ND	38.15	37.03	36.47	ULS-12/5-D48N-C
5	12	60	Negative	811-2199-ND	38.15	37.03	36.47	ULS-5/12-D48N-C

◊ Full power continuous output requires baseplate installation ▼ Maximum † Cut Tape ‡ Tape and Reel
∆ Efficiencies are shown at 5Vout § Bulk †† Tray

(Continued)

Murata Power Solutions

Higher Power DC/DC *(Cont.)*

VOUT (V)	IOUT (A)	Power (W)	On/Off Control Polarity	Digi-Key Part No.	Tube Price Each			Murata Power Solutions Part No.
					1	5	10	
3.3	20	66	Positive	811-2200-ND	39.02	37.87	37.30	ULS3.3/20-D48P-C
12	5	60	Positive	811-2201-ND	39.02	37.87	37.30	ULS12/5-D48P-C
5	12	60	Positive	811-2202-ND	39.02	37.87	37.30	ULS-5/12-D48P-C
Fig. 4 — UQQ Series - Wide Input Range Single Output Quarter-Brick								
3.3	25	82.5	Positive	811-1890-5-ND	130.90	127.05	125.13	UQQ-3.3/25-Q12PB-C
3.3	25	82.5	Negative	811-1891-5-ND	126.46	122.75	120.89	UQQ-3.3/25-Q48NB-C
5.0	17	85	Positive	811-1892-5-ND	130.90	127.05	125.13	UQQ-5/17-Q12PB-C
5.0	20	100	Negative	811-1893-5-ND	126.46	122.75	120.89	UQQ-5/20-Q48NB-C
12	8	96	Positive	811-1886-5-ND	130.90	127.05	125.13	UQQ-12/8-Q12PB-C
12	8	96	Negative	811-1887-5-ND	128.67	124.89	123.00	UQQ-12/8-Q48NB-C
15	7	105	Positive	811-1888-5-ND	130.90	127.05	125.13	UQQ-15/7-Q12PB-C
24	4	96	Positive	811-1889-5-ND	130.90	127.05	125.13	UQQ-24/4-Q12PB-C
NEW! Fig. 4 — UWE Series – Isolated, Eighth-Brick NEW!								
3.3	20	66	Positive	811-2229-5-ND	68.83	66.81	65.80	UWE-3.3/20-Q12P-C
3.3	20	66	Negative	811-2230-5-ND	66.67	64.72	63.74	UWE-3.3/20-Q48N-C
3.3	20	66	Positive	811-2237-5-ND	76.89	74.63	73.50	UWE-3.3/20-Q12PB-C
3.3	20	66	Negative	811-2238-5-ND	74.75	72.55	71.46	UWE-3.3/20-Q48NB-C
5	15	75	Positive	811-2231-5-ND	68.83	66.81	65.80	UWE-5/15-Q12P-C
5	15	75	Negative	811-2232-5-ND	66.67	64.72	63.74	UWE-5/15-Q48N-C
5	15	75	Positive	811-2239-5-ND	76.89	74.63	73.50	UWE-5/15-Q12PB-C
5	15	75	Negative	811-2240-5-ND	74.75	72.55	71.46	UWE-5/15-Q48NB-C
12	6	72	Positive	811-2225-5-ND	68.83	66.81	65.80	UWE-12/6-Q12P-C
12	6	72	Negative	811-2226-5-ND	66.67	64.72	63.74	UWE-12/6-Q48N-C
12	6	72	Positive	811-2233-5-ND	76.89	74.63	73.50	UWE-12/6-Q12PB-C
12	6	72	Negative	811-2234-5-ND	74.75	72.55	71.46	UWE-12/6-Q48NB-C
15	5	75	Positive	811-2227-5-ND	70.98	68.89	67.85	UWE-15/5-Q12P-C
15	5	75	Positive	811-2235-5-ND	79.05	76.73	75.57	UWE-15/5-Q12PB-C
24	3	72	Positive	811-2228-5-ND	70.98	68.89	67.85	UWE-24/3-Q12P-C
24	3	72	Positive	811-2236-5-ND	79.05	76.73	75.57	UWE-24/3-Q12PB-C
Fig. 5 — VCN Series - High Efficiency, High Current Density, Single In-line Package								
0.6 ~ 3.5	60	210	—	811-1930-ND††	46.67	45.30	44.61	VCN60BADJTU-1C
0.6 ~ 3.5	70	245	—	811-1931-ND††	48.99	47.56	46.84	VCN70BADJTU-1C
Fig. 6 — VKA Series - Single Output, Half-Brick								
5.0	20	100▼	Positive	811-1932-5-ND	116.03	112.62	110.91	VKA100LS05C
12	8.3	100▼	Positive	811-1933-5-ND	116.03	112.62	110.91	VKA100LS12C
15	6.7	100▼	Positive	811-1934-5-ND	116.03	112.62	110.91	VKA100LS15C
24	4.2	100▼	Positive	811-1935-5-ND	116.03	112.62	110.91	VKA100LS24C
Fig. 6 — VKP Series - Triple Output, Half-Brick								
5.1/12/-12	12/2.5/2.5	60	—	811-1936-5-ND	151.53	148.92	146.30	VKP60LT512C
5.0/15/-15	12/2.0/2.0	60	—	811-1937-5-ND	151.53	148.92	146.30	VKP60LT515C
Fig. 7 — VSX Series - Dual Output, Quarter-Brick								
5.0/3.3	12/15	60	Negative	811-1938-5-ND	151.53	148.92	146.30	VSX60LD35C

◊ Full power continuous output requires baseplate installation ▼ Maximum † Cut Tape ‡ Tape and Reel
Δ Efficiencies are shown at 5Vout § Bulk †† Tray

DC/DC Converters — OKL, OKI, OKR, OKX, OKX2, OKY, and OKY2 Series

Non-Isolated Fixed and Programmable Output DOSA PoLs:
Designed to support a wide range of applications, Okami modules are ideal for powering the latest generation of FPGAs and DSPs, are drop-in replacements for other DOSO-compliant parts, and are a competitive alternative to discrete designs.

Features:
- High load capacitance to 1000µF (OKX and OKY Series)
- Virtually no derating across rated temperature range
- Wide input voltage range and user selectable output voltage
- Drop-in replacement for DOSA PoL converters
- Competitive alternative to discrete designs

Fig. 1 — OKL Series *NEW!*

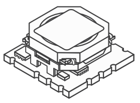

Fig. 2 — OKI-78SR/OKR Series *NEW!*

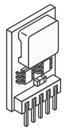

OKR-T/3-W12-C Shown

Fig. 3 — OKX and OKX2 Series

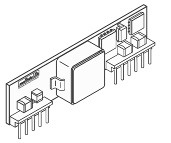

Fig. 4 — OKY/OKI Series

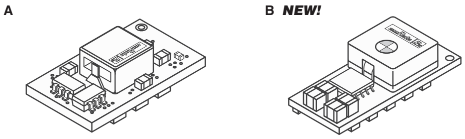

OKY Series Shown

Fig.	VOUT (V)	IOUT Max. (A)	VIN Nom. (V)	Power (W)	On/Off Polarity	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape and Reel		Murata Power Solutions Part No.
							1	5		Qty.	Pricing	
NEW! OKL Series Non-Isolated Programmable Output 12V 3 Amp iLGA SMT PoLs DC/DC Converters‡ NEW!												
1	0.6 ~ 3.63	3	5	9.9	Negative	811-2212-1-ND	10.34	9.78	811-2212-2-ND	400	2256.00	OKL-T/3-W5N-C
	0.591 ~ 5.5	3	12	15	Negative	811-2072-1-ND	10.34	9.78	811-2072-2-ND	400	2256.00	OKL-T/3-W12N-C
	0.6 ~ 3.3	6	5	19.8	Negative	811-2213-1-ND	13.01	12.30	811-2213-2-ND	400	2838.00	OKL-T/6-W5N-C
	0.591 ~ 5.5	6	12	30	Negative	811-2214-1-ND	13.01	12.30	811-2214-2-ND	400	2838.00	OKL-T/6-W12N-C
NEW! OKI-78SR Series Non-Isolated Fixed Output 1.5 Amp SIP DC/DC Converters NEW!												
2	3.3	1.5	12	4.95	—	811-2195-5-ND†	3.93	3.87	—	—	—	OKI-78SR-3.3/1.5-W36-C
	5	1.5	12	7.5	—	811-2196-5-ND†	3.93	3.87	—	—	—	OKI-78SR-5/1.5-W36-C
NEW! OKR Series Non-Isolated Programmable Output 3, 6 and 10 Amp SIP DC/DC Converters NEW!												
2	0.591 ~ 6	3	12	15	Positive	811-2115-5-ND†	6.39	6.21	—	—	—	OKR-T/3-W12-C
	0.591 ~ 6	6	12	30	Positive	811-2179-ND§	9.47	9.19	—	—	—	OKR-T/6-W12-C
	0.591 ~ 6	10	12	50	Positive	811-2180-ND§	11.48	11.14	—	—	—	OKR-T/10-W12-C
OKX Series Non-Isolated Programmable Output 10 and 16 Amp SIP DC/DC Converters												
3	0.7525 ~ 3.63	10	5	33	Negative	811-2148-5-ND† ***NEW!***	12.89	12.51	—	—	—	OKX-T/10-W5N-C
	0.7525 ~ 5.5	10	12	50	Negative	811-2011-5-ND†	12.89	12.51	—	—	—	OKX-T/10-D12N-C
	0.7525 ~ 5.5	10	12	50	Positive	811-2010-5-ND†	12.89	12.51	—	—	—	OKX-T/10-D12P-C
	0.7525 ~ 3.63	16	5	52.8	Negative	811-2149-5-ND† ***NEW!***	14.47	14.05	—	—	—	OKX-T/16-W5N-C
	0.7525 ~ 5.5	16	12	80	Negative	811-2013-5-ND†	14.47	14.05	—	—	—	OKX-T/16-D12N-C
	0.7525 ~ 5.5	16	12	80	Positive	811-2012-5-ND†	14.47	14.05	—	—	—	OKX-T/16-D12P-C
	0.7525 ~ 3.63	10	5	33	Negative	811-2150-5-ND† ***NEW!***	14.47	14.05	—	—	—	OKX2-T/10-W5N-C
	0.7525 ~ 5.5	10	12	50	Negative	811-2015-5-ND†	14.47	14.05	—	—	—	OKX2-T/10-D12N-C
	0.7525 ~ 5.5	10	12	50	Positive	811-2014-5-ND†	14.47	14.05	—	—	—	OKX2-T/10-D12P-C
	0.7525 ~ 3.63	16	5	52.8	Negative	811-2151-5-ND† ***NEW!***	15.54	15.09	—	—	—	OKX2-T/16-W5N-C
	0.7525 ~ 5.5	16	12	80	Negative	811-2017-5-ND†	15.54	15.09	—	—	—	OKX2-T/16-D12N-C
	0.7525 ~ 5.5	16	12	80	Positive	811-2016-5-ND†	15.54	15.09	—	—	—	OKX2-T/16-D12P-C
OKY Series Non-Isolated Programmable Output 3 and 5 Amp SMT DC/DC Converters												
4A	0.7525 ~ 3.63	3	5	10.9	Negative	811-2064-1-ND	10.34	9.78	811-2064-2-ND	400	2256.00	OKY-T/3-W5N-C
	0.7525 ~ 3.63	3	5	10.9	Positive	811-2065-1-ND	10.34	9.78	811-2065-2-ND	400	2256.00	OKY-T/3-W5P-C
	0.75 ~ 5.5	3	12	15.3	Negative	811-1990-1-ND	10.34	9.78	811-1990-2-ND	400	2256.00	OKY-T/3-D12N-C
	0.75 ~ 5.5	3	12	15.3	Positive	811-1991-1-ND	10.34	9.78	811-1991-2-ND	400	2256.00	OKY-T/3-D12P-C
	0.7525 ~ 3.63	5	5	18	Negative	811-2066-1-ND	13.01	12.30	811-2066-2-ND	400	2838.00	OKY-T/5-W5N-C
	0.7525 ~ 3.63	5	5	18	Positive	811-2067-1-ND	13.01	12.30	811-2067-2-ND	400	2838.00	OKY-T/5-W5P-C
	0.75 ~ 5.5	5	12	25.5	Negative	811-1992-1-ND	13.01	12.30	811-1992-2-ND	400	2838.00	OKY-T/5-D12N-C
NEW! OKI Series Non-Isolated Programmable Output 3 Amp SMT DC/DC Converter NEW!												
4A	0.7525 ~ 5.5	3	24	15	Negative	811-2152-1-ND	17.77	16.80	811-2152-2-ND	400	3876.00	OKI-T/3-W40N-C
NEW! OKY Series Non-Isolated Programmable Output 10 and 16 Amp SMT DC/DC Converters NEW!												
4B	0.7525 ~ 3.63	10	5	33	Negative	811-2144-1-ND	20.85	19.71	811-2144-2-ND	250	2842.50	OKY-T/10-W5N-C
	0.7525 ~ 5.5	10	12	50	Negative	811-2068-1-ND	20.85	19.71	811-2068-2-ND	250	2842.50	OKY-T/10-D12N-C
	0.7525 ~ 3.63	16	5	52.8	Negative	811-2145-1-ND	23.40	22.13	811-2145-2-ND	250	3191.25	OKY-T/16-W5N-C
	0.7525 ~ 5.5	16	12	80	Negative	811-2069-1-ND	23.40	22.13	811-2069-2-ND	250	3191.25	OKY-T/16-D12N-C
	0.7525 ~ 3.63	10	5	33	Negative	811-2146-1-ND	23.40	22.13	811-2146-2-ND	250	3191.25	OKY2-T/10-W5N-C
	0.7525 ~ 5.5	10	12	50	Negative	811-2070-1-ND	23.40	22.13	811-2070-2-ND	250	3191.25	OKY2-T/10-D12N-C
	0.7525 ~ 3.63	16	5	52.8	Negative	811-2147-1-ND	25.14	23.77	811-2147-2-ND	250	3427.50	OKY2-T/16-W5N-C
	0.7525 ~ 5.5	16	12	80	Negative	811-2071-1-ND	25.14	23.77	811-2071-2-ND	250	3427.50	OKY2-T/16-D12N-C

† Tube § Tray ‡ iLGA is an innovative LGA package design that allows easy access of all pin connections for inspection of LGA solder joints

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Isolated Wide-Range DC/DC Converters — UEI Series

UEI Series: • Small footprint DC/DC converter, ideal for high current applications. • Industry standard 1.55" x 2" x 0.4" open frame package and pinout. • High efficiency synchronous rectifier forward topology • Full power -40°C ~ 70°C temperature range • Designed to meet UL60950-1, CSA-C22.2 No. 234, EN60950-1 safety approvals. • Extensive self-protection shut down features.
UEI15 Series: • Industry standard 0.9" x 1.1" x 0.335" open frame package and pinout • High efficiency synchronous rectifier forward topology • Stable no-load operation with no required external components • Designed to meet UL60950-1, CAN/CSA-C22.2 No. 60950-1, IEC60950-1, EN60950-1 safety approvals.
UEI30 Series: • 0.92" x 1.92" x 0.35" open frame package • High efficiency synchronous rectifier forward topology • Stable no-load operation with no required external components • Designed to meet UL60950-1, CSA-C22.2 No. 234, EN60950-1 safety approvals
Note: *For additional technical information and safety approvals please see Digi-Key website for data sheets*

UEI and UEI15 Series

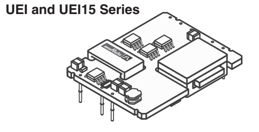

UEI30 Series

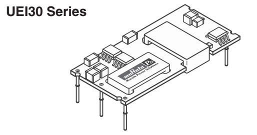

VOUT (V)	IOUT (A)	Power (W)	On/Off Control Polarity	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
UEI Series								
3.3	15	49.5	Positive	811-1872-5-ND	68.29	66.28	65.28	UEI-3.3/15-Q12PR-C
3.3	18	59.4	Negative	811-1873-5-ND	63.99	62.11	61.17	UEI-3.3/18-Q48NR-C
5	10	50	Positive	811-1874-5-ND	68.29	66.28	65.28	UEI-5/10-Q12PR-C
5	12	60	Negative	811-1875-5-ND	63.99	62.11	61.17	UEI-5/12-Q48NR-C
UEI15 Series								
3.3	4.5†	14.85	Positive	811-1864-5-ND	32.79	31.83	31.35	UEI15-033-Q12P-C
3.3	5	16.5	Negative	811-1865-5-ND	30.65	29.75	29.30	UEI15-033-Q48N-C
5	3†	15	Positive	811-1866-5-ND	32.79	31.83	31.35	UEI15-050-Q12P-C
5	3	15	Negative	811-1867-5-ND	30.65	29.75	29.30	UEI15-050-Q48N-C
12	1.3†	15.6	Positive	811-1868-5-ND	32.79	31.83	31.35	UEI15-120-Q12P-C
12	1.3	15.6	Negative	811-1869-5-ND	30.65	29.75	29.30	UEI15-120-Q48N-C
15	1.1	16.5	Positive	811-1870-5-ND	33.88	32.89	32.39	UEI15-150-Q12P-C
15	1.1	16.5	Negative	811-1871-5-ND	31.72	30.79	30.33	UEI15-150-Q48N-C
UEI30 Series								
5	6	30	Negative	811-1999-ND‡	45.71	44.37	43.70	UEI30-050-Q48N-C
5	6	30	Positive	811-2000-ND‡	47.31	45.92	45.23	UEI30-050-Q48P-C

† Minimum output load is 10% of maximum current. ‡ Tray

AC/DC Power Supply — CEF, CF, C1U, CPCI and D1U Series

CEF Series is a 400W active power factor-corrected (PFC) front-end power supply for distributed power architecture (DPA) systems requiring high power density in a 1U low profile package.
CF200 and CF350 Series are switching power supply utilizes advanced component and circuit technologies to deliver one of the industry's smallest 200W and 350W switchers.
C1U Series is 1,200W universal AC input, power-factor-corrected (PFC) front-end power supply for general applications.
D1U Series is power-factor-corrected (PFC) front-end power supply for hot-swapping redundant systems.
CPCI Series: ***CPCI200A-1C*** is a high-reliability, 200W, 3Ux4HP CompactPCI™ power supply developed for chassis' with airflows as low as 250lfm. ***CPCI-A-3U-200C*** is a high-reliability, 200W, continuous power, 3Ux8HP CompactPCI™ power supply developed for chassis' with airflows as low as 250lfm. ***CPCI-A-3U-300C and CPCI-D-3U-300C*** is a high-reliability, 300W, continuous power, 3Ux8HP CompactPCI™ power supply developed for chassis' with airflows as low as 250lfm.
Note: *For additional technical information and safety approvals please see Digi-Key website for data sheets*

Fig. 1

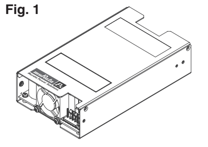

Fig. 2

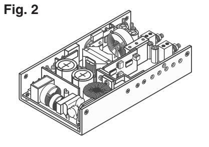

Fig. 3

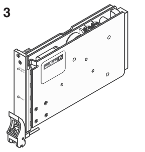

Power Output (W)	Main Output (V)	Standby Output (V)	Input Operating Range (VAC)	Digi-Key Part No.	Price Each 1	5	10	Murata Power Solutions Part No.
Fig. 1 — CEF Series - Open Frame Single Output Switching Power Supply								
400	12	5	85 ~ 264	811-1738-ND	230.55	226.58	222.60	CEF400-112C
Fig. 1 — C1U Series - Front End Power Supply								
1,200	12	5	90 ~ 264	811-1945-ND	679.69	667.97	656.25	C1U-W-1200-12-TA2C
1,200	48	12	90 ~ 264	811-1946-ND	679.69	667.97	656.25	C1U-W-1200-48-TB2C
Fig. 1 — D1U Series - Front End Power Supply								
1,600	12	5	90/180 ~ 140/264	811-1947-ND	634.38	623.44	612.50	D1U4-W-1600-12-HA2C
1,200	12	3.3	90/180 ~ 140/264	811-1948-ND	580.00	570.00	560.00	D1U4-W-1200-12-HC2C
2,800	-52	12	170 ~ 264	811-1949-ND	761.25	748.13	735.00	D1U-H-2800-52-HB1C
1,200	12	5	90/180 ~ 140/264	811-1950-ND	580.00	570.00	560.00	D1U-W-1200-12-HA2C
1,600	12	3.3	90/180 ~ 140/264	811-1951-ND	634.38	623.44	612.50	D1U-W-1600-12-HC2C
1,600	12	5	90/180 ~ 140/264	811-1952-ND	634.38	623.44	612.50	D1U-W-1600-12-HA2C
1,200	48	3.3	90/180 ~ 140/264	811-1953-ND	580.00	570.00	560.00	D1U-W-1200-48-HC2C
1,600	48	5	90/180 ~ 140/264	811-1954-ND	634.38	623.44	612.50	D1U-W-1600-48-HA2C
2,000	48	12	90/180 ~ 140/264	811-1955-ND	670.63	659.07	647.50	D1U-W-2000-48-HB2C
2,200	12.12	5	90/180 ~ 140/264	811-2247-ND✔	723.00	710.54	698.07	D1U4CS-W-2200-12-HA3C
2,200	12.12	5	90/180 ~ 140/264	811-2193-ND✔	723.00	710.54	698.07	D1U4CS-W-2200-12-HA4C
2,200	12.12	3.3	90/180 ~ 140/264	811-2194-ND✔	723.00	710.54	698.07	D1U4CS-W-2200-12-HC3C
2,200	12.12	3.3	90/180 ~ 140/264	811-2248-ND✔	723.00	710.54	698.07	D1U4CS-W-2200-12-HC4C

Power Output (W)	Main Output (V)	Standby Output (V)	Input Operating Range (VAC)	Digi-Key Part No.	Price Each 1	5	10	Murata Power Solutions Part No.
Fig. 2 — CF200 and CF350 Series - High Density Power Supply								
350	48	5	85 ~ 264	811-1962-ND	186.69	183.47	180.25	CF350-A48C

✔ NEW!

Power Output (W)	Output Current 5V	3.3V	12V	-12V	Input Operating Range (VAC)	Digi-Key Part No.	Price Each 1	5	10	Murata Power Solutions Part No.
Fig. 3 — CPCI Series - CompactPCI™										
200	25A	30A	5A	1A	90 ~ 264	811-1739-ND	440.00	432.42	424.83	CPCI200A-1C
300	30A	40A	5A	0.5A	90 ~ 264	811-1964-ND	353.44	347.35	341.25	CPCI-A-3U-300C
300	30A	40A	5A	0.5A	36 ~ 72	811-1965-ND	315.38	309.94	304.50	CPCI-D-3U-300C

Description	Digi-Key Part No.	Price Each 1	5	10	Murata Power Solutions Part No.
D1U Series - Output Connector Cards					
12V Output Connector Card	811-1956-ND	68.00	66.00	65.00	D1U-12-CONC
48V Output Connector Card	811-1957-ND	68.00	66.00	65.00	D1U-48-CONC
52V Output Connector Card	811-1958-ND	119.00	115.50	113.75	D1U-52-CONC
12V Output Connector Card	811-2192-ND ***NEW!***	85.00	82.50	81.25	D1U4CS-12-CONC

EIA-232-D/EIA-485 Isolated Interfaces

NM232DDC: Electrically isolated dual transmitter and receiver designed to interface data terminal equipment (DTE) with data communications equipment (DCE). The device provides two data receive channels and two data transmit channels. Each channel is EIA-232-D, EIA-232-E and CCITT V.28 compatible at the interface boundary and TTL/CMOS compatible at the logic connections. No external components are needed and a single 5V input supply powers all functions either side of the isolation boundary. A low-power shutdown mode and high impedance state for receiver outputs in effected via two pins, SHUTDOWN and ENABLE.
NM485DC: Electrically isolated dual differential driver and receiver designed for balanced multipoint bus transmission at rates up to 1.25Mbits per second. The device provides two receive channels and two driver channels. The two driver channels have an active high enable. No external components are needed and a single 5V input supply provide all functions either side of the isolation boundary. The driver outputs provide limiting for positive and negative currents and thermal shutdown protection from line fault conditions on the transmission bus line. The receiver outputs will always be high if the receiver inputs are open. The isolation voltage between input and output is 1000Vrms.
NM485SLC: Low power electrically isolated differential driver and receiver designed for bidirectional data communication or multipoint bus transmission at rates up to 2.5Mbits per second. The device combines a tri-state differential line driver and a differential input line receiver. The driver and receiver have active high and active low enables, respectively, which can be connected together to function as direction control. The receiver features a high output state when the inputs are left open. Thermal shutdown protection forces the driver into a high impedance state, under line fault conditions. No external components are needed as a single 5V supply powers all functions either side of the isolation boundary.

Note: *For additional technical information and safety approvals please see Digi-Key website for data sheets*

Description	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
EIA-232-D					
Dual EIA-232-D Transmitter and Receiver, 24-DIL	811-1444-5-ND	34.70	33.68	33.17	NM232DDC
EIA-485					
Dual EIA-485 Driver and Receiver, 24-DIL	811-1445-5-ND	41.94	40.71	40.09	NM485DC
Low Power EIA-485 Driver and Receiver, 24-DIL	811-1446-5-ND	41.94	40.71	40.09	NM485SLC

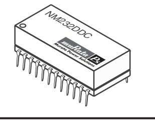

Power Over Ethernet Modules — NMPD01 Series

Power extraction modules has full functional compliance with IEEE802.3af. They are designed to extract power from CAT5 Ethernet cable when sourced by a Power Sourcing Equipment (PSE) also conforming to IEEE802.3af. This series removes the need for localized equipment power source, significantly reducing installation costs. The IEEE802.3af standard allows for two power options, one on the data lines, the other on the spare pair. The NMPD01 series can have voltage input on the data lines or spare pairs. ***Note:*** *For additional technical information and safety approvals please see Digi-Key website for data sheets*

Input Voltage (V)	Output Voltage (V)	Minimum Efficiency (%)	Maximum Power (W)	Digi-Key Part No.	Tube Price Each 1	5	10	Murata Power Solutions Part No.
48	3.4	74	9.50	811-1562-5-ND	37.40	36.30	35.75	NMPD0103C
48	5.1	77	9.75	811-1563-5-ND	37.40	36.30	35.75	NMPD0105C
48	12.1	80	10.00	811-1564-5-ND	37.40	36.30	35.75	NMPD0112C
48	15.1	79	10.00	811-1565-5-ND	37.40	36.30	35.75	NMPD0115C

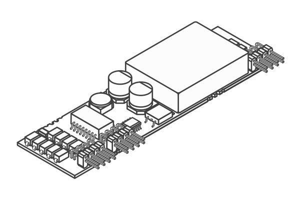

DC-DC Converters and Filters

Features:
• Remote On-Off • High efficiency • Small size and low profile • Temperature Range: -40°C ~ 85°C • Output overcurrent and overvoltage protection

SMT

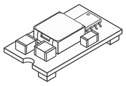

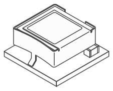

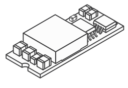

Output Voltage	I Out (A)	Input Voltage (V)	On/ Off Logic	Digi-Key Part No.	Cut Tape Price Each		Tape and Reel†		Lineage Power Part No.
					1	10	Qty.	Pricing	
0.59 ~ 5.5	3	4.5 ~ 14	Neg.	555-1124-1-ND	13.31	12.73	400	2589.31	APTS003A0X-SRZ
0.59 ~ 5.5	3	4.5 ~ 14	Neg.	555-1126-1-ND	12.44	11.91	400	2204.16	APXS003A0X-SRZ
0.59 ~ 5.5	3	4.5 ~ 14	Pos.	555-1145-1-ND✔	13.96	9.73	400	2472.95	APTS003A0X4-SRZ
0.59 ~ 5.5	3	4.5 ~ 14	Pos.	555-1150-1-ND✔	13.06	9.10	400	2311.67	APXS003A0X4-SRZ
0.59 ~ 5.5	6	4.5 ~ 14	Neg.	555-1125-1-ND	19.92	19.06	400	4126.85	APTS006A0X-SRZ
0.59 ~ 5.5	6	4.5 ~ 14	Neg.	555-1127-1-ND	18.66	17.86	400	4126.85	APXS006A0X-SRZ
0.59 ~ 5.5	6	4.5 ~ 14	Pos.	555-1146-1-ND✔	20.92	15.03	400	3939.96	APTS006A0X4-SRZ
0.59 ~ 5.5	6	4.5 ~ 14	Pos.	555-1151-1-ND✔	19.60	14.08	400	3690.25	APXS006A0X4-SRZ
0.59 ~ 5.5	6	4.5 ~ 14	Neg.	555-1155-1-ND✔	20.53	14.76	400	3866.88	APXS006A0X-SRDZ
0.60 ~ 3.63	3	2.4 ~ 5.5	Neg.	555-1120-1-ND	13.31	12.73	400	2589.32	APTH003A0X-SRZ
0.60 ~ 3.63	3	2.4 ~ 5.5	Neg.	555-1122-1-ND	12.44	11.91	400	2424.58	APXH003A0X-SRZ
0.60 ~ 3.63	6	2.4 ~ 5.5	Neg.	555-1121-1-ND	19.92	19.06	400	4126.86	APTH006A0X-SRZ
0.60 ~ 3.63	6	2.4 ~ 5.5	Neg.	555-1123-1-ND	18.66	17.86	400	3864.96	APXH006A0X-SRZ
0.60 ~ 3.63	12	2.4 ~ 5.5	Neg.	555-1149-1-ND✔	25.53	18.91	250	3194.40	APXH012A0X3-SRZ
0.60 ~ 5.5	2	3 ~ 14	Neg.	555-1160-1-ND✔	9.81	6.71	400	1744.00	APXS002A0X-SRZ
0.60 ~ 8.0	4	8 ~ 16	Neg.	555-1141-1-ND✔	17.35	16.60	400	3467.90	APXK004A0X-SRZ
0.69 ~ 5.5	12	4.5 ~ 14	Neg.	555-1129-1-ND	27.17	26.00	250	3740.88	APTS012A0X3-SRZ
0.69 ~ 5.5	20	4.5 ~ 14	Neg.	555-1147-1-ND✔	28.87	21.88	250	3782.41	APTS020A0X3-SRZ
0.69 ~ 5.5	20	4.5 ~ 14	Pos.	555-1148-1-ND✔	30.31	22.97	250	3969.60	APTS020A0X43-SRZ
0.75 ~ 3.3	3	2.4 ~ 5.5	Pos.	555-1054-1-ND	8.35	7.99	400	2416.13	AXH003A0X4-SRZ
0.75 ~ 3.63	3	2.4 ~ 5.5	Neg.	555-1053-1-ND	8.21	7.86	400	2378.11	AXH003A0X-SRZ
0.75 ~ 3.63	5	3.0 ~ 5.5	Neg.	555-1059-1-ND	13.91	13.31	500	4752.01	AXH005A0X-SRZ
0.75 ~ 3.63	6	2.4 ~ 5.5	Neg.	555-1073-1-ND	15.87	15.18	400	4012.80	ATH006A0X-SRZ
0.75 ~ 3.63	10	2.4 ~ 5.5	Neg.	555-1081-1-ND	19.43	18.59	250	3405.61	ATH010A0X3-SRZ
0.75 ~ 3.63	10	3.0 ~ 5.5	Neg.	555-1063-1-ND	18.17	17.38	250	3220.81	AXH010A0X3-SRZ
0.75 ~ 3.63	16	2.4 ~ 5.5	Neg.	555-1089-1-ND	22.88	21.89	250	4118.39	ATH016A0X3-SRZ
0.75 ~ 3.63	16	2.4 ~ 5.5	Pos.	555-1090-1-ND	22.88	21.89	250	4118.39	ATH016A0X43-SRZ
0.75 ~ 3.63	16	3.0 ~ 5.5	Neg.	555-1067-1-ND	21.16	20.24	250	3854.40	AXH016A0X3-SRZ
0.75 ~ 5.5	3	8.3 ~ 14	Neg.	555-1049-1-ND	8.72	8.34	400	2513.28	AXA003A0X-SRZ
0.75 ~ 5.5	3	8.3 ~ 14	Pos.	555-1050-1-ND	8.86	8.47	400	2551.29	AXA003A0X4-SRZ
0.75 ~ 5.5	5	10 ~ 14	Neg.	555-1057-1-ND	13.91	13.31	400	3801.61	AXA005A0X-SRZ
0.75 ~ 5.5	6	8.3 ~ 14	Neg.	555-1069-1-ND	15.87	15.18	400	4012.80	ATA006A0X-SRZ
0.75 ~ 5.5	10	8.3 ~ 14	Neg.	555-1077-1-ND	19.43	18.59	250	3405.61	ATA010A0X3-SRZ
0.75 ~ 5.5	10	8.3 ~ 14	Pos.	555-1078-1-ND	19.43	18.59	250	3405.61	ATA010A0X43-SRZ
0.75 ~ 5.5	16	8.3 ~ 14	Neg.	555-1085-1-ND	22.88	21.89	250	4118.39	ATA016A0X3-SRZ
0.75 ~ 5.5	16	8.3 ~ 14	Pos.	555-1086-1-ND	22.88	21.89	250	4118.39	ATA016A0X43-SRZ
0.75 ~ 5.5	16	10 ~ 14	Neg.	555-1065-1-ND	21.16	20.24	250	3854.40	AXA016A0X3-SRZ
0.75 ~ 5.5	16	10 ~ 14	Neg.	555-1065-1-ND	21.16	20.24	250	3854.40	AXA016A0X3-SRZ
0.8 ~ 2.75	30	6 ~ 14	Neg.	555-1140-1-ND✔	41.53	39.73	200	5170.01	APTS030A0X3-SRPHZ
0.8 ~ 2.75	30	6 ~ 14	Neg.	555-1152-1-ND✔	32.59	26.95	200	4097.28	ATS030A0X3-SRPHZ
3.0 ~ 6.0	10	18 ~ 30	Pos.	555-1106-1-ND	26.45	25.30	250	4786.31	AXB030X43-SRZ
3.0 ~ 18	5	9 ~ 36	Neg.	555-1172-1-ND✔	23.63	18.30	250	3400.79	APXW005A0X3-SRZ
3.3	3.5	36 ~ 75	Neg.	555-1118-1-ND	29.78	28.49	150	3349.50	SW003A5F91-SRZ
3.3	5	18 ~ 36	Neg.	555-1189-ND✔	37.00	32.00	—	—	HC005A0F1-S
3.3	5	24	Neg.	555-1180-ND✔	37.00	32.00	—	—	HC005A0F1-SZ
3.3	15	36 ~ 75	Neg.	555-1104-1-ND	66.24	63.36	140	6036.79	KW015A0F41-SRZ
5.0	3	36 ~ 75	Neg.	555-1116-1-ND	29.78	28.49	150	3349.50	SW003A0A91-SRZ
5.0	4	24	Neg.	555-1179-ND✔	37.00	32.00	—	—	HC004A0A1-SZ
5.0	4	36 ~ 75	Neg.	555-1190-ND✔	37.00	32.00	—	—	HW004A0A1-S
5.0	6	36 ~ 75	Neg.	555-1182-ND✔	47.50	41.90	—	—	HW006A6A1-SZ
5.0 ~ 15.0	8	20 ~ 30	Pos.	555-1107-1-ND	26.79	25.63	250	4857.59	AXB050X43-SRZ
12.0	1.2	24	Neg.	555-1188-1-ND✔	23.20	22.40	150	3045.00	SC001A2B91-SRZ

✔ ***NEW!*** † For Tape and Reel part number, change CT-ND to TR-ND.

SIP

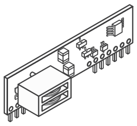

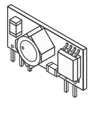

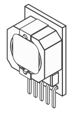

Output Voltage	I Out (A)	Input Voltage (V)	On/Off Logic	Digi-Key Part No.	Price Each 1	10	100	Lineage Power Part No.
0.59 ~ 6.0	3	4.5 ~ 14	Positive	555-1130-ND	14.17	9.05	7.51	NSR003A0X4Z
0.59 ~ 6.0	6	4.5 ~ 14	Positive	555-1131-ND	18.84	13.32	10.63	NSR006A0X4Z
0.59 ~ 6.0	10	4.5 ~ 14	Positive	555-1132-ND	21.29	16.55	12.56	NSR010A0X4Z
0.59 ~ 6.0	10	4.5 ~ 14	Positive	555-1161-ND ***NEW!***	14.19	10.90	8.38	NQR010A0X4Z
0.59 ~ 6.0	20	4.5 ~ 14	Positive	555-1139-ND	25.87	23.94	16.24	NSR020A0X43Z
0.6 ~ 5	40	5 ~ 13.8	Positive	555-1157-ND ***NEW!***	37.20	30.39	24.84	NSR040A0X43Z
0.75 ~ 3.63	3	2.4 ~ 5.5	Negative	555-1055-ND	7.14	6.30	5.63	AXH003A0XZ
0.75 ~ 3.63	3	2.4 ~ 5.5	Positive	555-1056-ND	7.26	6.40	5.72	AXH003A0X4Z
0.75 ~ 3.63	5	3.0 ~ 5.5	Negative	555-1060-ND	12.10	10.40	9.00	AXH005A0XZ
0.75 ~ 3.63	6	2.4 ~ 5.5	Negative	555-1075-ND	13.80	11.60	9.50	ATH006A0XZ
0.75 ~ 3.63	10	2.4 ~ 5.5	Positive	555-1084-ND	16.90	14.80	12.90	ATH010A0X43Z
0.75 ~ 3.63	10	3.0 ~ 5.5	Negative	555-1064-ND	15.80	13.90	12.20	AXH010A0X3Z
0.75 ~ 3.63	16	2.4 ~ 5.5	Negative	555-1091-ND	19.90	17.50	15.60	ATH016A0X3Z
0.75 ~ 5.5	3	8.3 ~ 14	Negative	555-1051-ND	7.58	6.68	5.95	AXA003A0XZ
0.75 ~ 5.5	3	8.3 ~ 14	Positive	555-1052-ND	7.70	6.78	6.04	AXA003A0X4Z
0.75 ~ 5.5	5	10 ~ 14	Negative	555-1058-ND	12.10	10.40	9.00	AXA005A0XZ
0.75 ~ 5.5	6	8.3 ~ 14	Negative	555-1071-ND	13.80	11.60	9.50	ATA006A0XZ
0.75 ~ 5.5	10	10 ~ 14	Negative	555-1062-ND	15.80	13.91	12.20	AXA010A0X3Z
0.75 ~ 5.5	16	10 ~ 14	Negative	555-1066-ND	18.40	16.30	14.60	AXA016A0X3Z
0.75 ~ 5.5	10	8.3 ~ 14	Negative	555-1079-ND	16.90	14.80	12.90	ATA010A0X3Z
0.75 ~ 5.5	16	8.3 ~ 14	Negative	555-1087-ND	19.90	17.50	15.60	ATA016A0X3Z
0.8 ~ 3.63	25	4.5 ~ 5.5	Negative	555-1093-ND	27.34	23.50	20.34	ATH025A0X3Z
0.8 ~ 5.5	25	6.0 ~ 14	Negative	555-1095-ND	27.34	23.50	20.34	ATS025A0X3Z
0.8 ~ 5.5	25	6.0 ~ 14	Negative	555-1097-ND	28.34	24.50	21.34	ATS025A0X3-PZ
5 ~ 15	4.5	20 ~ 30	Positive	555-1153-ND ***NEW!***	23.60	20.79	18.73	AXB070X43Z

DIP

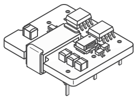

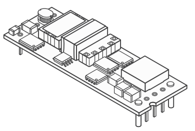

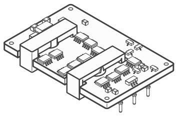

Output Voltage	I Out (A)	Input Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Lineage Power Part No.
3.3	20.0	36 ~ 75	555-1100-ND	59.90	50.50	41.00	EQW020A0F1Z
3.3	15.0	36 ~ 75	555-1105-ND	57.60	48.40	39.20	KW015A0F41Z
3.3	15.0	36 ~ 75	555-1176-ND ***NEW!***	20.80	18.55	16.40	ESTW015A0F41Z
3.3	2.4	0 ~ 75	555-1159-ND ***NEW!***	87.60	77.30	69.60	PIM300FZ
3.3	3.5	36 ~ 75	555-1119-ND	25.90	24.40	20.30	SW003A5F91Z
3.3	25	36 ~ 75	555-1186-ND ***NEW!***	76.70	69.90	63.20	QPW025A0F41-H
3.3 ~ 5.0	20	18 ~ 60	555-1174-ND ***NEW!***	75.90	66.00	56.20	EQD075A41Z
3.3 ~ 5.0	20	18 ~ 60	555-1175-ND ***NEW!***	80.83	71.76	62.41	EQD075A641Z
5.0	1.6	0 ~ 75	555-1158-ND ***NEW!***	87.60	77.30	69.60	PIM300AZ
5.0	3.0	36 ~ 75	555-1117-ND	25.90	22.40	20.30	SW003A0A91Z
5.0	6.6	18 ~ 36	555-1181-ND ***NEW!***	47.50	41.90	36.30	HC006A6A1Z
5.0	10.0	36 ~ 75	555-1185-ND ***NEW!***	57.60	48.40	39.20	KW010A0A41Z
5.0	13.0	36 ~ 75	555-1184-ND ***NEW!***	43.20	38.30	33.20	KNW013A0A41Z
5.0	20.0	36 ~ 75	555-1178-ND ***NEW!***	58.60	52.10	45.40	EVW020A0A41-HZ
12.0	1.2	36 ~ 75	555-1115-ND	25.90	22.40	20.30	SW001A2B91Z
12.0	6.0	36 ~ 75	555-1098-ND	59.90	50.50	41.00	EQW006A0B1Z
12.0	7.0	36 ~ 75	555-1142-ND ***NEW!***	49.00	43.40	37.61	EHW007A0B41Z
12.0	7.0	36 ~ 75	555-1173-ND ***NEW!***	51.00	45.40	39.60	EHW007A0B41-HZ
12.0	10.0	36 ~ 75	555-1177-ND ***NEW!***	52.02	45.89	39.76	EVW010A0B41-HZ
12.0	10.0	36 ~ 75	555-1143-ND ***NEW!***	49.90	44.20	38.30	EVW010A0B41Z
12.0	18.0	36 ~ 75	555-1109-ND	56.00	52.90	49.51	QBW018A0B1Z
12.0	33.0	36 ~ 75	555-1187-ND ***NEW!***	70.20	60.60	50.90	QSW033A0B41-HZ
28.0	12.5	36 ~ 75	555-1144-ND ***NEW!***	90.10	80.00	69.60	JNW350R641-TZ
28.0	12.5	36 ~ 75	555-1183-ND ***NEW!***	80.44	71.40	62.11	JNW350R641-18Z

Filters

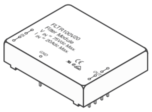

I Out (A)	Input Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Lineage Power Part No.
10	100	555-1101-ND	18.80	16.55	14.40	FLTR100V10Z
20	100	555-1102-ND	28.10	25.20	21.95	FLTR100V20Z
5	75	555-1103-ND	17.00	15.00	13.30	FLTR75V05Z
7	75	555-1156-ND ***NEW!***	11.90	11.10	10.70	FLT007A0Z
7	75	555-1154-1-ND† ***NEW!***	13.68	12.21	—	FLT007A0-SRZ
7	75	555-1154-2-ND‡ ***NEW!***	1438.09/140			FLT007A0-SRZ

† Cut Tape ‡ Tape and Reel

NEW! AC-DC Power Supply

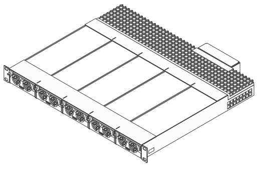

Features:

- Remote On-Off
- High Power Density

Output Voltage	I Out (A)	Input Voltage (V)	On/Off Logic	Digi-Key Part No.	Price Each 1	10	100	Lineage Power Part No.
12	71	85 ~ 264	Positive	555-1162-ND	340.00	283.00	244.80	CAR0812FPBXXZ01A
12	100	85 ~ 264	Positive	555-1163-ND	612.00	510.00	440.64	CAR1212FPBCXZ01A
48	25	85 ~ 264	Positive	555-1164-ND	598.00	498.00	430.56	CAR1248FPBCXZ01A
12	134	85 ~ 264	Positive	555-1165-ND	690.00	575.00	496.80	CAR1612FPBCXZ01A
24	83	180 ~ 264	Positive	555-1166-ND	883.00	736.00	635.76	CAR2024FPBXXZ01A
12	208	90 ~ 264	Positive	555-1167-ND	944.00	787.01	679.68	CAR2512FPBXXZ01A
48	52	90 ~ 264	Positive	555-1168-ND	896.00	747.01	645.12	CAR2548FPBCXZ01A
Universal Rack								
5-Bay Power Shelf For CAR1248				555-1169-ND	424.00	353.00	305.28	ACE125RUW48XZ01A
4-Bay Power Shelf For CAR2024				555-1170-ND	493.00	411.00	354.96	ACE204RUW24XZ01A
4-Bay Power Shelf For CAR2548				555-1171-ND	504.00	420.00	362.88	ACE254RUW48XZ01A

Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
FCI Mating Connectors					
Right Angle Mounting for CAR0812FPBXXZ01A	609-4014-ND	7.78	5.29	4.77	51762-10402400ABLF
Straight Mounting for CAR1212FPBCXZ01A	609-4015-ND	9.16	6.49	5.84	51940-117
Right Angle Mounting for CAR1212FPBCXZ01A	609-4019-ND	8.59	6.09	5.48	51866-025
Right Angle Mounting for CAR1248FPBCXZ01A	609-4016-ND	8.51	5.79	5.21	51915-050
Right Angle Mounting for CAR1612FPBCXZ01A	609-4020-ND	8.34	5.67	5.11	51762-10802400ABLF
Right Angle Mounting for CAR2512FPBXXZ01A	609-4017-ND	10.20	7.02	6.51	51915-176LF
Right Angle Mounting for CAR2548FPBCXZ01A	609-4018-ND	8.65	6.13	5.52	51915-051LF

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CXA10 Series — Single and Dual Output 10 Watt

Delivers single and dual output voltages covering 3.3V, 5V, 12V, ±5V, and ±12V.

Features:
- Fully compliant with ETS 300 386-1 • Approved to EN60950, UL1950, CSA C22.2 No. 950 • High demonstrated reliability with conservative component deratings

Dim. Inches (mm)

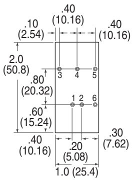

Dual	**Single**
1. + Input	1. + Input
2. - Input	2. - Input
3. + Output	3. + Output
4. Common	4. No Pin
5. - Output	5. - Output
6. Remote ON/OFF	6. Remote ON/OFF

Input Voltage (VDC)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
18 ~ 75	3.3	2.0	393-1191-ND	40.80	CXA10-48S3V3J
18 ~ 75	5.0	2.0	393-1192-ND	40.80	CXA10-48S05J
18 ~ 75	12	0.83	393-1193-ND	40.80	CXA10-48S12J
18 ~ 75	±12	0.41	393-1194-ND	44.88	CXA10-48D12J

SMT05E and SMT15E Series Single Output

Non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion. Ideal solution where board space is at a premium or tighter card pitch is required. The ultra-wide voltage trim range offers major advantages to users. It is no longer necessary to purchase a variety of modules in order to cover different output voltages.

SMTxxE-12W3V3J:
- Trim range: 0.8 ~ 3.63V • Set at default voltage of 0.8V

SMT05E-05W3V3J:
- Trim range: 0.75 ~ 3.63V • Set at default voltage of 0.75V • When Vin ≥ 4.5V, then Vout can be adjusted from 0.75 ~ 3.63V • When Vin < 4.5V, then Vout can be adjusted from 0.75 ~ 2.75V

SMT15E-05W3V3J:
- Trim range: 0.8 ~ 3.63V • Set at default voltage of 3.3V • When Vin ≥ 4.5V, then Vout can be adjusted from 0.8 ~ 3.63V • When Vin < 4.5V, then Vout can be adjusted from 0.8 ~ 2.75V

SMT15E-05S3V3J:
- Trim range: 0.8 ~ 3.63V • Set at default voltage of 3.3V • When Vin ≥ 4.5V, then Vout can be adjusted from 0.8 ~ 3.6V • When Vin < 4.5V, then Vout can be adjusted from 0.8 ~ 2.75V

Dim. Inches (mm)

Fig. 1

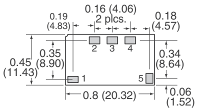

1. Vin
2. Ground
3. Trim
4. Vout
5. Remote ON/OFF

Fig. 2

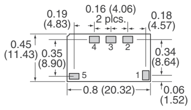

1. Remote ON/OFF
2. Vout
3. Trim
4. Ground
5. +Vin

Fig. 3

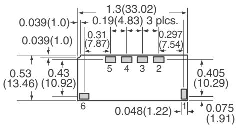

1. Remote ON/OFF
2. Remote Sense +
3. Trim
4. +Vout
5. Ground
6. +Vin

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Emerson Part No.
1	10 ~ 14	0.8 ~ 3.63	5	16.5	393-1181-ND	16.03	SMT05E-12W3V3J
2	3.0 ~ 5.5	.75 ~ 3.63	5	18.15	393-1182-ND	16.03	SMT05E-05W3V3J
3	10 ~ 14	0.8 ~ 3.63	15	49.5	393-1183-ND	25.84	SMT15E-12W3V3J
	3.0 ~ 5.5	0.8 ~ 3.63	15	54.45	393-1185-ND	19.00	STM15E-05W3V3J

Typhoon™ SMT12F Series

The SMT12F series is a new range of ultra-compact non-isolated point-of-load converters for space-critical applications. A key advantage of the SMT12F is that it only needs the addition of five 22µF ceramic output capacitors to provide a complete full-specification, high efficiency POL solution with transient response capabilities that extend up to 300A/µs. The total board space required for the module and capacitors is a mere 300mm^2, facilitating easy co-location with the load.

Dim. Inches (mm)

1. Trim: A 1%
2. Margin+
3. Remote ON/OFF
4. Margin-
5. V sense +
6. V sense -
7. +Vout
8. Ground
9. +Vin
10. Power Good

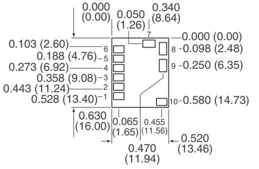

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
3.0 ~ 5.5	0.9 ~ 3.3	12	393-1204-ND	25.81	SMT12F-05W3V3J

Typhoon™ SMT15F Series

The SMT15F-12 series are non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion from a 12V source. The SMT15F-12 has an input range of 10.8V ~ 13.2V and offers an output voltage range from 1.0V ~ 1.8V with a 15A load, which allows for maximum design flexibility and a pathway for future upgrades.

Dim. Inches (mm)

1. +Vin
2. GND
3. +Vout
4. Trim
5. +Vsense
6. Remote ON/OFF

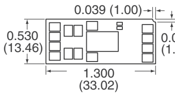

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.8 ~ 13.2	1.2	15	393-1205-ND	32.27	SMT15F-12S1V2J

SIL15C and SIL20C Series

The SIL15C and SIL20C Series are a new high density open frame non-isolated converters for space-sensitive applications. Each model has a wide input range (4.5V ~ 5.5V or 10.2V ~ 13.8V) and offer a wide 0.9V ~ 3.3V/5V output voltage range with a 15A/20A load. An external resistor adjusts the output voltage from its pre-set value of 0.9V to any value up to the maximum allowed value for that model.

Dim. Inches (mm)

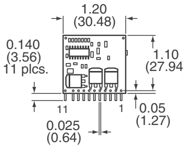

1. Vout
2. Vout
3. Vout
4. Trim
5. Remote ON/OFF
6. Power Good
7. Ground
8. Ground
9. Reserved
10. Vin
11. Vin

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.2 ~ 13.8	0.9 ~ 5.0	15	393-1186-ND	14.69	SIL15C-12SADJ-VJ
4.5 ~ 5.5	0.9 ~ 3.3	20	393-1187-ND	17.20	SIL20C-05SADJ-VJ
10.2 ~ 13.8	0.9 ~ 5.0	20	393-1188-ND	17.20	SIL20C-12SADJ-VJ

SIL30C and SIL40C Series

The ultra-wide output voltage trim range offers major advantages to users who select the SIL30C-12SADJ or SIL40C-12SADJ series. It is no longer necessary to purchase a variety of modules in order to cover different output voltages. The output voltage can be trimmed in a range of 0.9V ~ 5.0V. When the SIL30C-12SADJ or SIL40C-12SADJ series converter leaves the factory the output has been adjusted to the default voltage of 0.9V.

Dim. Inches (mm)

1. TRIM
2. No Pin
3. Ground
4. Power Good
5. Not Connected
6. Current Share
7. Ground
8. Ground
9. Remote ON/OFF
10. **SIL30C Series:** Remote Sense (GND)
10. **SIL40C Series:** Remote Sense -
11. **SIL30C Series:** Remote Sense(O/P)
11. **SIL40C Series:** Remote Sense +
12. Vin
13. Vin
14. Vin
15. Vout
16. Vout
17. Ground
18. Vout
19. Ground
20. Vout
21. Ground
22. Vout
23. Ground
24. Vout

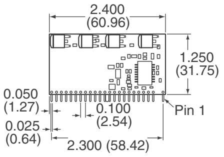

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.2 ~ 13.8	0.9 ~ 5	30	393-1189-ND◆	25.84	SIL30C-12SADJ-VJ
10.2 ~ 13.8	0.9 ~ 5	40	393-1146-ND	21.48	SIL40C-12SADJ-V
10.2 ~ 13.8	0.9 ~ 5	40	393-1190-ND◆	27.03	SIL40C-12SADJ-VJ

◆ *RoHS Compliant*

Typhoon™ Eighth-Brick Series

This is a new high efficiency, open-frame, low profile, single board, isolated DC/DC converter series in an industry standard eight-brick footprint that provides up to 100W of output. The series delivers very high output current at low voltages, and excellent useable power for today's high performance applications. Full international safety approval including EN60950 VDE and UL/cUL60950, reduces compliance costs and time to market. The remote ON/OFF logic is negative.

Dim. Inches (mm)

1. Vin+
2. ON/OFF
3. Vin-
4. Vout-
5. Sense-
6. Sense+
7. Vout+
8. Vout+

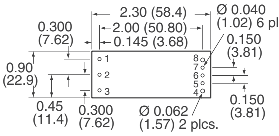

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
36 ~ 75	2.5	20	393-1126-ND	61.91	LES20A48-2V5RE
36 ~ 75	2.5	20	393-1196-ND◆	61.91	LES20A48-2V5REJ
36 ~ 75	5.0	10	393-1198-ND◆	84.20	LES10A48-5V0REJ
36 ~ 75	1.2	50	393-1199-ND◆	89.79	LES50A48-1V2REJ
36 ~ 75	2.5	25	393-1127-ND	61.91	LES25A48-2V5RE
36 ~ 75	2.5	25	393-1200-ND◆	84.20	LES25A48-2V5REJ

◆ *RoHS Compliant*

(Continued)

EMERSON Network Power DC-DC Converters *(Cont.)*

Formerly ARTESYN

Typhoon™ Quarter-Brick Series

RoHS COMPLIANT

Specifications:

Dual Output:

- Input voltage range: 48V nominal, 36 ~ 75VDC

Narrow Input IBC:

- Quarter-Brick, isolated, intermediate bus converter (IBC)
- Input voltage range: Nominal 48VDC, ±10%VDC

Wide Input IBC:

- This series is a Quarter Brick, wide-input intermediate bus converter (IBC)
- Input voltage range: 36 ~ 75VDC

Dim. Inches (mm)

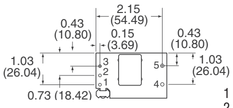

1 +Vin
2 Remote
3 -Vin
4 +Vout
5 -Vout

Output Voltage Nominal (V) 1	2	Input Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
				Wide Input IBC		
12	—	36 ~ 75	14	393-1195-ND	87.60	TQW14A-48S12RJ

PTH Series

The next generation series of non-isolated DC/DC converters offering some of the most advanced POL features available in the industry. The primary new feature provides for sequencing between multiple modules, a function, which is becoming a necesasity for powering advanced silicon including DSP's, FPGA's and ASIC's requiring controlled power-up and power-down.

Dim. Inches (mm)

Fig. 1

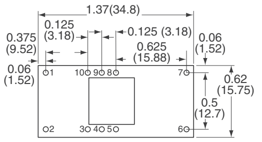

A 470µF electrolytic input capacitor is required for proper operation (560µF on PTH12010 series).

1. Ground	5. Vo Sense	9. Margin Down
2. Vin	6. Vout	10. Margin Up
3. Inhibit†	7. Ground	
4. Vo Adjust	8. Track	

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 2

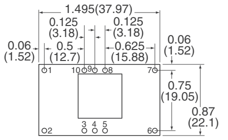

A 1000µF electrolytic input capacitor is required for proper operation (560µF on PTH12020 series).

1. Ground	5. Vo Sense	9. Margin Down
2. Vin	6. Vout	10. Margin Up
3. Inhibit†	7. Ground	
4. Vo Adjust	8. Track	

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 3

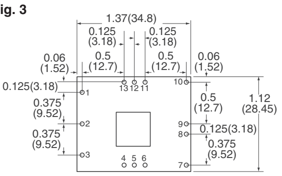

A 1500µF electrolytic input capacitor is required for proper operation (560µF on PTH12030 series).

1. Ground	6. Vo Sense	11. Track
2. Vin	7. Ground	12. Margin Down
3. Ground	8. Vout	13. Margin Up
4. Inhibit†	9. Vout	
5. Vo Adjust	10. Ground	

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 4

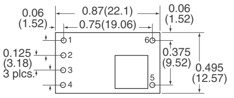

A 100µF electrolytic input capacitor is required for proper operation.

1. Ground	3. Vin	5. Vo Adjust
2. Track	4. Inhibit†	6. Vout

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 5

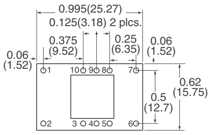

A 330µF electrolytic input capacitor is required for proper operation (560µF on PTH12060 series).

1. Ground	5. Vo Sense	9. Margin Down
2. Vin	6. Vout	10. Margin Up
3. Inhibit†	7. Ground	
4. Vo Adjust	8. Track	

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Emerson Part No.
1	2.95 ~ 3.65	0.8 ~ 2.5	15	37.5	393-1159-ND◆	20.59	PTH03010WAD
	4.5 ~ 5.5	0.8 ~ 3.6	15	54	393-1167-ND◆	20.59	PTH05010WAD
	4.5 ~ 5.5	0.8 ~ 3.6	15	54	393-1168-ND◆	20.59	PTH05010WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	12	66	393-1177-ND◆	20.59	PTH12010WAD
	10.8 ~ 13.2	1.2 ~ 5.5	12	66	393-1178-ND◆	20.59	PTH12010WAZ
2	4.5 ~ 5.5	0.8 ~ 3.6	22	79.2	393-1169-ND◆	29.84	PTH05020WAD
	4.5 ~ 5.5	0.8 ~ 3.6	22	79.2	393-1170-ND◆	29.84	PTH05020WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	18	99	393-1179-ND◆	29.84	PTH12020WAD
	10.8 ~ 13.2	1.2 ~ 5.5	18	99	393-1180-ND◆	29.84	PTH12020WAZ
3	2.95 ~ 3.65	0.8 ~ 2.5	30	75	393-1099-ND	29.39	PTH03030WAS
3	2.95 ~ 3.65	0.8 ~ 2.5	30	75	393-1162-ND◆	39.97	PTH03030WAZ
	4.5 ~ 5.5	0.8 ~ 3.6	30	108	393-1171-ND◆	39.97	PTH05030WAD
4	2.95 ~ 3.65	0.8 ~ 2.5	6	15	393-1155-ND◆	12.26	PTH03050WAZ
	2.95 ~ 3.65	0.8 ~ 2.5	6	15	393-1156-ND◆	12.26	PTH03050WAD
	4.5 ~ 5.5	0.8 ~ 3.6	6	21.6	393-1163-ND◆	12.26	PTH05050WAD
	4.5 ~ 5.5	0.8 ~ 3.6	6	21.6	393-1164-ND◆	12.26	PTH05050WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	6	33	393-1173-ND◆	12.26	PTH12050WAD
	10.8 ~ 13.2	1.2 ~ 5.5	6	33	393-1174-ND◆	12.26	PTH12050WAZ
5	2.95 ~ 3.65	0.8 ~ 2.5	10	15	393-1157-ND◆	17.41	PTH03060WAZ
	2.95 ~ 3.65	0.8 ~ 2.5	10	15	393-1158-ND◆	17.41	PTH03060WAD
	4.5 ~ 5.5	0.8 ~ 3.6	10	36	393-1102-ND	17.41	PTH05060WAH
	4.5 ~ 5.5	0.8 ~ 3.6	10	36	393-1165-ND◆	17.41	PTH05060WAD
	4.5 ~ 5.5	0.8 ~ 3.6	10	36	393-1166-ND◆	17.41	PTH05060WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	10	55	393-1175-ND◆	17.41	PTH12060WAD
	10.8 ~ 13.2	1.2 ~ 5.5	10	55	393-1176-ND◆	17.41	PTH12060WAZ

◆ *RoHS Compliant*

EMERSON Network Power DC-DC Converters

Formerly ASTEC

Specifications:
- Single Output
- Operating Temperature: -40°C ~ 85°C

Dim. Inches (mm)

Fig. 1 – ATH06 Series: • Non Isolated • SMT

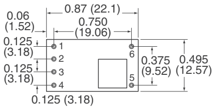

1. GND	4. Inhibit
2. Track	5. Vo Adjust
3. Vin	6. Vout

Fig. 2 – ALO25 and ALO40 Series: • 1/8 Brick • Negative Logic • No Load Regulation

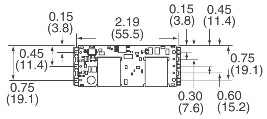

1. +Vin	3. -Vin	6. Trim
2. ENABLE (On/Off)	4. -Vout	7. +Sense
	5. -Sense	8. +Vout

Fig. 3 – AEO25 and AEO40 Series: • 1/8 Brick • Negative Logic

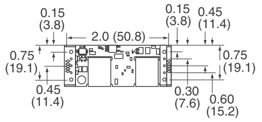

1. +Vin	3. -Vin	6. Trim
2. ENABLE (On/Off)	4. -Vout	7. +Sense
	5. -Sense	8. +Vout

Fig. 4 – ATH22 Series: • Non Isolated • SMT

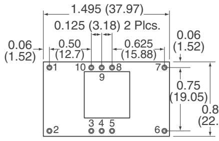

1. GND	5. Vo Sense	9. Margin Down
2. Vin	6. Vout	10. Margin Up
3. Inhibit	7. GND	
4. Vo Adjust	8. Track	

Fig. 5 – ATH30 Series: • Non Isolated • SMT

1, 3. GND	8, 9. Vout
2. Vin	7,10. GND
4. Inhibit	11. Track
5. Vo Adjust	12. Margin Down
6. Vo Sense	13. Margin Up

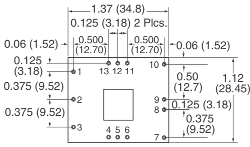

Fig.	V Out	Watts	I Out	V In Range	Digi-Key Part No.	Price Each	Emerson Part No.
				ATH06 Series — Point-of-Load Alliance, RoHS Compliant			
1	0.8 ~ 3.6V	33W	6A	4.5 ~ 5.5V	454-1245-ND	13.48	ATH06T05-9SJL
	1.2 ~ 5.5V	33W	6A	10.8 ~ 13.2V	454-1246-ND	13.48	ATH06K12-9SJL
				ALO25 Series — Open Frame/ Low Profile, RoHS Compliant			
2	12V	66W	4A	36 ~ 75V	454-1172-ND	52.38	ALO04B48N-L
				ALO40 Series — Open Frame/ Low Profile, RoHS Compliant			
2	1.5V	120W	40A	36 ~ 75V	454-1182-ND	58.94	ALO40M48N-L
				AEO25 Series — Baseplate Construction, RoHS Compliant			
3	12V	66W	4A	36 ~ 75V	454-1184-ND	56.13	AEO04B48N-L
	3.3V	66W	20A	36 ~ 75V	454-1186-ND	56.13	AEO20F48N-L
	1.8V	66W	25A	36 ~ 75V	454-1187-ND	41.28	AEO25Y48N-L
	1.5V	66W	25A	36 ~ 75V	454-1188-ND	41.28	AEO25M48N-L
	1.2V	66W	25A	36 ~ 75V	454-1189-ND	56.13	AEO25K48N-L
				AEO40 Series — Baseplate Construction, RoHS Compliant			
3	12V	120W	10A	36 ~ 75V	454-1190-ND	65.48	AEO10B48N-L
	5V	120W	20A	36 ~ 75V	454-1191-ND	65.48	AEO20A48N-L
	1.8V	120W	40A	36 ~ 75V	454-1193-ND	65.48	AEO40Y48N-L
	1.5V	120W	40A	36 ~ 75V	454-1194-ND	65.48	AEO40M48N-L
	1.2V	120W	40A	36 ~ 75V	454-1195-ND	65.48	AEO40K48N-L
				ATH22 Series — Point-of-Load Alliance			
4	0.8 ~ 3.6V	99W	22A	4.5 ~ 5.5V	454-1118-ND	24.13	ATH22T05-9SJ
				ATH30 Series — Point-of-Load Alliance			
5	0.8 ~ 2.5V	143W	30A	3 ~ 3.6V	454-1120-ND	43.98	ATH30T033-9SJ

EMERSON
Network Power

Switching AC-DC Power Supplies

Single Outputs

RoHS COMPLIANT

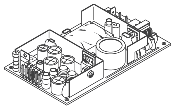

Emerson's LP Series of low power switchers offer outstanding performance, price and reliability as well as the latest in high technology performance. These switchers range from 25W ~ 350W of power and come in a wide variety of configurations. Available as a single or multiple output with many different output voltage combinations, these compact models are ideally suited to a wide variety of applications in telecommunications, computers, computer peripheral, test and industrial equipment, medical instrumentation and business machines.

Formerly ASTEC

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Emerson Part No.
				Housing Input	Housing Output	Contacts		1	10	25	50	
LPS40 Series — Single Outputs												
40-50	5V @ 8A	0A	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1073-ND	46.78	44.72	44.04	42.66	LPS42
40-50	12V @ 3.3A	0A		WM2123	WM2126	WM2313	454-1070-ND	46.78	44.72	44.04	42.66	LPS43
40-50	24V @ 1.6A	0A		WM2123	WM2126	WM2313	454-1071-ND	46.78	44.72	44.04	42.66	LPS45
40-50	48V @ 0.9A	0A		WM2123	WM2126	WM2313	454-1072-ND	46.78	44.72	44.04	42.66	LPS48
LPS50 Series — Single Outputs												
55	5V @ 11A	0A	4.0 x 2.0 x 1.30 (101.60 x 50.80 x 33.0)	WM2123	WM2126	WM2313	454-1161-ND	50.51	48.28	47.54	46.06	LPS52
60	12V @ 5A	0A		WM2123	WM2126	WM2313	454-1162-ND	50.51	48.28	47.54	46.06	LPS53
60	15V @ 4A	0A		WM2123	WM2126	WM2313	454-1163-ND	50.51	48.28	47.54	46.06	LPS54
60	24V @ 2.5A	0A		WM2123	WM2126	WM2313	454-1164-ND	50.51	48.28	47.54	46.06	LPS55
60	48V @ 1.25A	0A		WM2123	WM2126	WM2313	454-1165-ND	50.51	48.28	47.54	46.06	LPS58
LPS60 Series — Single Outputs												
60	15V @ 4A	0A	5.0 x 3.0 x 1.65	WM2123	WM2126	WM2313	454-1196-ND	61.68	58.96	58.05	56.24	LPS64
60	24V @ 2.5A	0A	(127.0 x 76.2 x 41.9)	WM2123	WM2126	WM2313	454-1197-ND	61.68	58.96	58.05	56.24	LPS65
LPS250 Series — Single Outputs												
250	5V @ 50A	1.50A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1204-ND	310.27	296.58	292.02	282.90	LPS252-C
250	12V @ 21A	0.63A		—	—	—	454-1208-ND	368.08	351.85	346.44	335.61	LPS253-CEF
250	15V @ 16.7A	0.50A		—	—	—	454-1211-ND	270.65	265.24	259.83	255.50	LPS254-CEF
250	15V @ 16.7A	0.50A		—	—	—	454-1212-ND	348.81	333.42	328.29	318.03	LPS254-CF
250	24V @ 10.4A	0.32A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1213-ND	310.27	296.58	292.02	282.90	LPS255-C
250	24V @ 10.4A	0.32A		—	—	—	454-1214-ND	368.08	351.85	346.44	335.61	LPS255-CEF
250	24V @ 10.4A	0.32A		—	—	—	454-1215-ND	348.81	333.42	328.29	318.03	LPS255-CF
Connector Kit for LPS250 Series..........							454-1241-ND	9.37	8.96	8.82	8.55	70-841-005
LPS350 Series — Single Outputs												
350	5V @ 70A	0A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1222-ND	394.47	380.87	374.07	361.83	LPS352-CF
350	12V @ 29.2A	0A		—	—	—	454-1224-ND	394.47	380.87	374.07	361.83	LPS353-CEF
350	12V @ 29.2A	0A		—	—	—	454-1225-ND	394.47	380.87	374.07	361.83	LPS353-CF
350	15V @ 23.3A	0A		—	—	—	454-1227-ND	394.47	380.87	374.07	361.83	LPS354-CEF
350	24V @ 14.6A	0A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1229-ND	361.60	349.14	342.90	331.68	LPS355-C
350	24V @ 14.6A	0A		—	—	—	454-1230-ND	394.47	380.87	374.07	361.83	LPS355-CEF
350	24V @ 14.6A	0A		—	—	—	454-1231-ND	394.47	380.87	374.07	361.83	LPS355-CF
Connector Kit for LPS350 Series..........							454-1242-ND	9.37	8.96	8.82	8.55	70-841-011
NTS350 Series — Single Outputs												
350	12V @ 16.6A	0A	7.0 x 4.0 x 1.5 (177.8 x 101.6 x 38.1)	WM2123	WM8037	WM2313	454-1168-ND	198.95	192.10	188.67	182.49	NTS353
350	48V @ 4.2A	0A		WM2123	WM8037	WM2313	454-1170-ND	171.51	168.09	164.66	161.91	NTS358
350	48V @ 7.3A	0A		WM2123	WM8037	WM2313	454-1171-ND	222.44	214.78	210.94	204.04	NTS358-CF

Note: *The -CF suffix added to the manufacture part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the manufacture part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

Multiple Outputs

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Emerson Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
LPT25 Series – Triple Outputs — RoHS Compliant														
25-40	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14	WM2123	WM2126	WM2313	454-1078-ND	41.16	39.35	38.74	37.53	LPT22
25-40	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-5V @ 0A/0.5A	—	(127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1079-ND	44.91	42.94	42.28	40.96	LPT24
LPT40 Series – Triple Outputs														
40-50	3.3V @ 0.5A/4A	5V @ 0A/1.5A	12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1077-ND◆	56.13	53.66	52.84	51.19	LPT41
40-50	5V @ 0.4A/4A	12V @ 0.2A/2A	-12V @ 0A/0.5A	—		WM2123	WM2126	WM2313	454-1075-ND◆	43.04	41.15	40.52	39.25	LPT42
40-50	5V @ 0.5A/6A	12V @ 0A/0.5A	-12V @ 0A/0.5A	—		WM2123	WM2126	WM2313	454-1076-ND◆	48.65	46.51	45.80	44.37	LPT43
40-50	5V @ 0.4A/4A	12V @ 0.2A/2A	-5V @ 0A/0.5A	—		WM2123	WM2126	WM2313	454-1080-ND	48.65	46.51	45.80	44.37	LPT44
40-50	5V @ 0.4A/4A	15V @ 0.2A/2A	-15V @ 0A/0.5A	—		WM2123	WM2126	WM2313	454-1081-ND◆	48.65	46.51	45.80	44.37	LPT45
40-50	5V @ 0.4A/4A	24V @ 0.2A/1A	-12V @ 0A/0.5A	—		WM2123	WM2126	WM2313	454-1074-ND◆	48.65	46.51	45.80	44.37	LPT47
LPT60 Series – Triple Outputs — RoHS Compliant														
60	5V @ 0.7A/7A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 41.9)	WM2123	WM2104	WM2313	454-1200-ND	55.90	53.43	52.61	50.97	LPT62
60	5V @ 0.7A/7A	15V @ 0.3A/2.8A	-15V @ 0A/0.7A	—		WM2123	WM2104	WM2313	454-1201-ND	65.54	62.65	61.68	59.76	LPT63
60	5V @ 0.7A/7A	12V @ 0.3A/3A	-5V @ 0A/0.7A	—		WM2123	WM2104	WM2313	454-1202-ND	65.54	62.65	61.68	59.76	LPT64
60	5V @ 0.7A/7A	24V @ 0.1A/1.5A	12V @ 0A/0.7A	—		WM2123	WM2104	WM2313	454-1203-ND	65.54	62.65	61.68	59.76	LPT65
Cover Chassis for LPX40/ LPX60 — RoHS Compliant														
—	—	—	—	—	5.9 x 3.86 x 1.5 (150 x 98 x 38)	—	—	—	454-1247-ND	9.37	8.96	8.82	8.55	LPX40
—	—	—	—	—	5.9 x 3.86 x 1.97 (150 x 98 x 50)	—	—	—	454-1248-ND	9.37	8.96	8.82	8.55	LPX60
NTQ160 Series – Quad Outputs														
50-165	3.3V @ 2A/15A	5V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A	8.5 x 4.25 x 1.5	—	—	—	454-1238-ND◆	256.33	245.02	241.25	233.71	NTQ162
50-165	5V @ 2A/15A	3.3V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A	(216.0 x 108.0 x 38.1)	—	—	—	454-1239-ND◆	256.33	245.02	241.25	233.71	NTQ163
Connector Kit for NTQ160 Series									454-1243-ND	9.37	8.96	8.82	8.55	70-841-014
NTQ123 Series – Quad Outputs — RoHS Compliant														
70-120	3.3V @ 0A/14A	5V @ 2A/12.5A	12V @ 0A/1A	-12V @ 0A/0.5A	7.0x4.0x1.5 (177.8x101.6x38.1)	WM2125	A25834	WM2313	454-1237-ND	185.23	177.06	174.34	168.89	NTQ123
LPT80 Series – Triple Outputs — RoHS Compliant														
60	5V @ 0.7A/8A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—	5.0 x 3.0 x 1.29	WM2123	WM8037	WM2313	454-1167-ND	74.29	72.81	71.32	70.13	LPT82
60	5V @ 0.7A/8A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—	(127.0 x 76.2 x 32.8)	WM2123	WM8037	WM2313						
LPQ250 Series – Quad Outputs														
250	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1084-ND◆	339.17	324.21	319.22	309.25	LPQ252-C
250	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A		—	—	—	454-1216-ND◆	338.60	326.93	321.09	310.59	LPQ252-CEF
250	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A		—	—	—	454-1082-ND◆	322.16	311.06	305.50	295.50	LPQ252-CF
250	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A		—	—	—	454-1217-ND◆	339.17	324.21	319.22	309.25	LPQ253-C
250	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A		—	—	—	454-1218-ND◆	338.60	326.93	321.09	310.59	LPQ253-CEF
250	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A		—	—	—	454-1219-ND◆	322.16	311.06	305.50	295.50	LPQ253-CF
Connector Kit for LPQ250 Series									454-1241-ND	9.37	8.96	8.82	8.55	70-841-005
LPQ350 Series – Quad Outputs — RoHS Compliant														
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	9.0 x 5.0 x 2.5	—	—	—	454-1085-ND	394.47	380.87	374.07	361.83	LPQ352-C
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	(228.6 x 127.0 x 63.5)	—	—	—	454-1232-ND	427.36	412.63	405.26	392.00	LPQ352-CEF

◆ RoHS Compliant

Note: *The -CF suffix added to the mfg. part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the mfg. part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

(Continued)

Switching AC-DC Power Supplies

Multiple Outputs *(Cont.)*

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Emerson Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1083-ND	427.36	412.63	405.26	392.00	LPQ352-CF
350	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A		—	—	—	454-1233-ND	394.47	380.87	374.07	361.83	LPQ353-C
350	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A		—	—	—	454-1234-ND	427.36	412.63	405.26	392.00	LPQ353-CEF
Connector Kit for LPQ350 Series......									454-1242-ND	9.37	8.96	8.82	8.55	70-841-011

◆ ***RoHS Compliant***

Note: *The -CF suffix added to the mfg. part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the mfg. part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

TRIAD MAGNETICS

Encapsulated Constant Current or Constant Voltage Switch Mode Power Supplies

Designed to be compact, lightweight and water resistant (IP66, Nema 4).

Electrical Specifications: • Input Voltage: 90VAC ~ 264VAC, 47Hz ~ 63Hz (TLD Series); 10VDC ~ 40VDC (TLM Series) **• Operating Temperature:** (TLD Series): -30°C ~ 60°C (TLM Series) -40°C ~ 60°C (with derating 1% per °C from 60°C ~ 70°C) • Short Circuit Protection (TLD Series only) • Over Voltage and Over Current Protection

Fig.	Output Voltage (VDC)	Output Current (A)	Wattage	Digi-Key Part No.	Price Each				Triad Part No.
					1	10	50	100	
Constant Current Output									
1	12 ~ 24	0.35 ±5%	20	237-1309-ND	38.18	32.45	29.21	26.29	TLD1020-24-C0350
1	12 ~ 24	0.70 ±5%	20	237-1311-ND	38.18	32.45	29.21	26.29	TLD1020-24-C0700
1	18 ~ 36	0.35 ±5%	20	237-1310-ND	38.18	32.45	29.21	26.29	TLD1020-36-C0350
2	12 ~ 24	1.05 ±5%	40	237-1315-ND	49.22	41.84	37.65	33.89	TLD1040-24-C1050
2	18 ~ 36	0.70 ±5%	40	237-1314-ND	49.22	41.84	37.65	33.89	TLD1040-36-C0700
2	18 ~ 36	1.05 ±5%	40	237-1316-ND	49.22	41.84	37.65	33.89	TLD1040-36-C1050
3	2 ~ 36	0.35 ±5%	26	237-1319-ND	16.97	14.27	12.84	11.56	TLM4036DC-0350
3	2 ~ 36	0.70 ±5%	26	237-1320-ND	16.97	14.27	12.84	11.56	TLM4036DC-0700
3	2 ~ 36	1.00 ±5%	26	237-1321-ND	16.97	14.27	12.84	11.56	TLM4036DC-1000
Constant Voltage Output									
1	12 ±5%	1.66	20	237-1313-ND	38.18	32.45	29.21	26.29	TLD1020-12
1	24 ±5%	0.83	20	237-1312-ND	38.18	32.45	29.21	26.29	TLD1020-24
2	12 ±5%	3.33	40	237-1318-ND	49.22	41.84	37.65	33.89	TLD1040-12
2	24 ±5%	1.67	40	237-1317-ND	49.22	41.84	37.65	33.89	TLD1040-24

Fig. 1

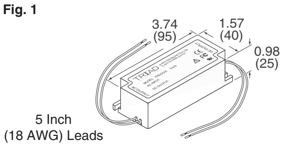

Fig. 2

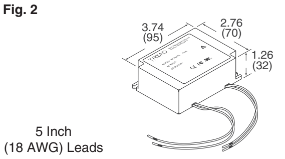

Fig. 3

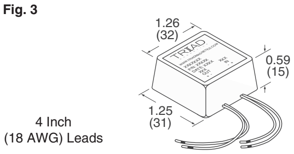

Universal Input Switch Mode AC/DC Power Supply

ALS Series

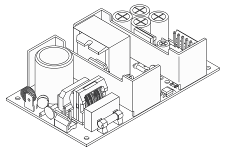

AWSP Series

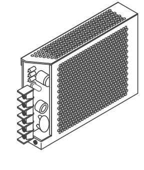

ALS Series:

The ALS Series provides a DC output power in a cost-effective open frame package. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class A), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards. **Features:** • Over Current Protection: Shutdown, O.C.P Point >120%, recycle AC supply to recover • Over Voltage Protection: >105% Zener across output • Short Circuit Protection: Unit shutdown, recycle AC supply to recover **Specifications:** • Input Voltage: 110/120VAC (90-260VAC, 120-370VDC) • Input Frequency Range: 47-63Hz • Line Regulation: 1.0% • Load Regulation: 2.0% • Adjustable Output Voltage Range: ±10% • Operating Temperature: Convection cooling 0°C ~ 50°C: 100%; 60°C: 70% • Cooling: Convection cooling **Warranty:** 1 years @ 40°C, 100% Load **Safety Standards:** • UL1950 (E204980) • TUV EN60950 (50070245) • Built to meet CSA 22.2 • Dielectric Strength: I/P-O/P: 3kVAC, I/P-FG: 2.5kVAC, <10mA, 1 minute • Isolation Resistance: O/P-FG: 500VDC >100MΩ

AWSP Series:

The AWSP Series power supply is designed for a wide variety of applications where high reliability is desired, including applications for industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards. **Features:** • Over Current Protection: At Load >120% 115/230VAC, auto recovery • Over Voltage Protection: Zener clamping at Vo>110%, non auto recovery • Short Circuit Protection: Short circuit protection available. Avoid short circuit >30 seconds. **Specifications:** • Input Voltage: 85-264VAC • Input Frequency Range: 47-63Hz • Line Regulation: ±0.5% • Load Regulation: ±1.0% • Adjustable Output Range: ±10% • Operating Temperature: -10°C ~ 60°C • Cooling: Natural Convection **Warranty:** 2 years **Safety Standards:** • UL60950 (UL File No: E204980) • TUV EN60950 (TUV No: 50058679) • Dielectric Strength: I/P-O/P: 3kVAC; I/P-FG: 2.5kVAC; O/P-FG: 0.5kVAC 1 minute • Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG: 500VDC/100MΩ

ALS Series (Open Frame)

Wattage	Output Voltage (V)	Output Current (A)	Dimensions Inch (mm) L x W x H	Mating Connections			Digi-Key Part No.	Price Each				Triad Part No.
				Housing Input	Housing Output	Contacts		1	10	25	50	
50	3.3	9.1	5.0 x 3.0 x 1.42 (127.0 x 76.2 x 35.6)	WM2101-ND	WM2104-ND	WM2300-ND	237-1289-ND	25.44	21.63	20.36	19.47	ALS50-3.3
50	5.0	9.0		WM2101-ND	WM2104-ND	WM2300-ND	237-1290-ND	25.44	21.63	20.36	19.47	ALS50-5
50	12.0	4.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1291-ND	25.44	21.63	20.36	19.47	ALS50-12
50	24.0	2.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1292-ND	25.44	21.63	20.36	19.47	ALS50-24
75	3.3	12.0	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 42.0)	WM2101-ND	WM2104-ND	WM2300-ND	237-1293-ND	28.61	24.32	22.88	21.88	ALS75-3.3
75	5.0	12.0		WM2101-ND	WM2104-ND	WM2300-ND	237-1294-ND	28.61	24.32	22.88	21.88	ALS75-5
75	12.0	6.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1295-ND	28.61	24.32	22.88	21.88	ALS75-12
75	24.0	3.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1296-ND	28.61	24.32	22.88	21.88	ALS75-24

AWSP Series (Enclosed Frame)

Wattage	Output Voltage (V)	Output Current (A)	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each				Triad Part No.
					1	10	25	50	
40	5.0	7.6	5.08 x 3.86 x 1.50 (129.0 x 98.0 x 38.0)	237-1297-ND	23.70	20.15	19.64	18.14	AWSP40-5
40	12.0	3.3		237-1298-ND	23.70	20.15	19.64	18.14	AWSP40-12
40	24.0	1.7		237-1299-ND	23.70	20.15	19.64	18.14	AWSP40-24
60	5.0	12.0	6.30 x 3.86 x 1.50 (160.0 x 98.0 x 38.0)	237-1300-ND	30.07	25.56	24.05	23.00	AWSP60-5
60	12.0	5.0		237-1301-ND	30.07	25.56	24.05	23.00	AWSP60-12
60	24.0	2.5		237-1302-ND	30.07	25.56	24.05	23.00	AWSP60-24
100	5.0	20.0	7.80 x 3.86 x 1.65 (198.0 x 98.0 x 42.0)	237-1303-ND	58.37	49.61	46.69	44.65	AWSP100-5
100	12.0	8.4		237-1304-ND	58.37	49.61	46.69	44.65	AWSP100-12
100	24.0	4.2		237-1305-ND	58.37	49.61	46.69	44.65	AWSP100-24
150	5.0	30.0	7.83 x 3.86 x 1.97 (199.0 x 98.0 x 50.0)	237-1306-ND	61.46	55.32	49.17	44.56	AWSP150-5
150	12.0	12.5		237-1307-ND	61.47	52.25	49.17	47.02	AWSP150-12
150	24.0	6.3		237-1308-ND	61.47	52.25	49.17	47.02	AWSP150-24

200-1360W AC - DC Modular Power Supplies

The Xgen series allows users to instantly configure high efficiency power supplies. Although very small in size, (40.4mm high, 260mm or 268mm long and either 89mm or 127mm wide) the Xgen series provides up to 1360W of output power (1450W peak). The Xgen series power supplies combine feature-laden front-ends (powerPacs) with slide-in output converters (powerMods). The plug-together architecture facilitates "instant" custom power solutions with industry leading 16W/in3 power density and up to 90% conversion efficiency. Available in two package sizes, with a variety of application specific powerPacs, the Xgen series provides a standard off-the-shelf solution for specific application requirements. ***FEATURES INCLUDE:*** • Universal AC Input Range (85 ~ 264VAC / 47 ~ 63Hz) • 1 ~ 12 fully floating DC outputs • Use powerPac with any combination of output modules in series or parallel • Line Regulation of <0.1% • Load Regulation of <0.2% • Efficiency up to 90% • Medical UL 2601 and Industrial UL 60950 versions • Active Power Factor Correction for EN61000-3-2 Class D Compliance • 5VSB @ 250mA Bias Supply • Remote Sense, Remote on/off and Voltage Trim Control Signals • DC Good, AC Good, Temperature Alarm and Fan Fail Status Signals • Over Voltage, Over Current, Over Temperature protection circuits • Ripple / Noise <1% peak to peak maximum (20mHZ bandwidth) • >1 million hours MTBF at full load and 25°C • Option Codes: 01 Thermal Signals, 02 Reverse Fan

Field configurable plug and play modules for any combination of outputs

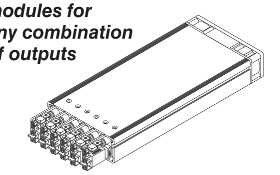

Note: Build your own Plug and Play power supplies by selecting a powerPac and individual powerMods. To order power supplies pre-configured, 24 hour shipping, use online configurator tool at http://ordering.digikey.com/ProductGuides/Excelsys.aspx

Xlite

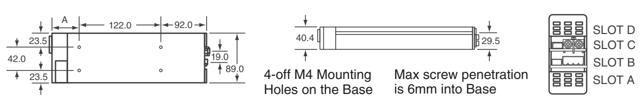
A
122.0
92.0
23.5
42.0
23.5
19.0
89.0
40.4
29.5
4-off M4 Mounting Holes on the Base
Max screw penetration is 6mm into Base
SLOT D
SLOT C
SLOT B
SLOT A

Xcite

Dim. in mm

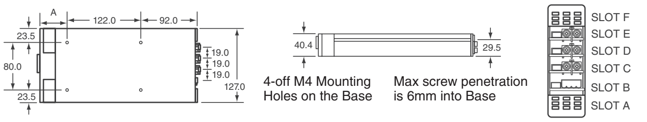

Input Connector and Signals Pinout (J2 powerPac)

Pin	J2 (powerPac)
1	Common
2	+5V Bias
3	—
4	AC Fail
5	Fan Fail
6	Global Enable
7	Temperature Alarm
8	Global Inhibit

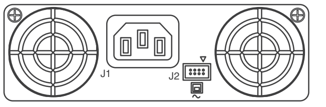

J2 Signals Mating Connectors:
- Housing: WM18032-ND • Crimp Terminal: WM1128-ND

Output Signals Connector Pinout

Pin	Xg1 ~ Xg5 (J3)	Xg7 (J3)	Xg8 (J3)
1	+Sense	Not Used	-Pg (V2)
2	-Sense	Not Used	+Pg (V2)
3	V Trim	Not Used	Inhibit (V2)
4	I Trim	Common	Common (V2)
5	+Inhibit/Enable	-Pg	-Pg (V1)
6	-Inhibit/Enable	+Pg	+Pg (V1)
7	+Power Good	Inhibit	Inhibit (V1)
8	-Power Good	Common	Common (V1)

Xg1-Xg7

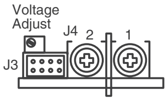

J3 Mating Connectors:
- Housing: WM18032-ND
- Contacts: WM1128-ND

J4 Mating Connectors:
- A0984-ND

powerPacs (AC Front End — Power Supply Chassis)

Description	Watts	Dim. A mm	Digi-Key Part No.	Price Each 1	Price Each 10	Excelsys Part No.
Xlite Family						
Without Thermal Signal Alarm						
4 Slot Chassis 89mm UL/cUL60950-1 Approved	200	46.0	633-1023-ND	220.94	199.05	XLA-00
	400	46.0	633-1024-ND	224.79	202.52	XLB-00
	600	46.0	633-1025-ND	230.57	207.72	XLC-00
	750	54.0	633-1088-ND	289.87	261.15	XLD-00
With Thermal Signal Alarm						
4 Slot Chassis 89mm UL/cUL60950-1 Approved	200	46.0	633-1000-ND	239.70	215.95	XLA-01
	400	46.0	633-1001-ND	243.56	219.42	XLB-01
	600†	46.0	633-1002-ND	249.34	224.63	XLC-01
	750	54.0	633-1089-ND	308.65	278.06	XLD-01
Xcite Family						
Without Thermal Signal Alarm						
6 Slot Chassis 127mm UL/cUL60950-1 Approved	400	46.0	633-1026-ND	279.85	252.12	XCA-00
	700	46.0	633-1027-ND	310.66	279.88	XCB-00
	1000	46.0	633-1028-ND	343.57	309.53	XCC-00
	1200	46.0	633-1029-ND	362.08	326.21	XCD-00
	1,360	54.0	633-1030-ND	442.07	398.26	XCE-00
With Thermal Signal Alarm						
6 Slot Chassis 127mm UL/cUL60950-1 Approved	400	46.0	633-1003-ND	298.59	269.01	XCA-01
	700	46.0	633-1004-ND	329.43	296.79	XCB-01
	1,000∆	46.0	633-1005-ND	362.36	326.46	XCC-01
	1,200§	46.0	633-1006-ND	380.74	343.01	XCD-01
	1,360	54.0	633-1031-ND	459.15	413.66	XCE-01

† Derate linearly from 600W @ 180VAC (400W @ 85VAC) ∆ Derate linearly from 1,000W @ 100VAC (850W @ 85VAC) § Derate linearly from 1,200W @ 120VAC (850W @ 85VAC)

Note: See Designer's Manual for power derating.

Output Connector Pinout

Pin	Xg1-Xg7 (J4)	Xg8 (J4)
1	-Vout	-V2
2	+Vout	+V2
3	—	-V1
4	—	+V1

Xg8

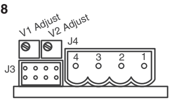

J3 powerMod Signals Mating Connector:
- Housing: WM18032-ND
- Crimp Terminal: WM1128-ND

J4 powerMod Signals Mating Connector:
- 277-1013-ND

powerMods (DC Output Modules)

Output	Volt. Nom.	Adjustment Range (V)	Imax (A)	Watts	Digi-Key Part No.	Price Each 1	Price Each 10	Excelsys Part No.
Single	2.5	1.5 ~ 3.6	50	125	633-1014-ND	121.63	113.53	Xg1
Single	5.0	3.2 ~ 6.0	40	200	633-1015-ND	121.63	113.53	Xg2
Single	12.0	6.0 ~ 15.0	20	240	633-1016-ND	118.48	110.59	Xg3
Single	24.0	12.0 ~ 30.0	10	240	633-1017-ND	118.48	110.59	Xg4
Single	48.0	28.0 ~ 58.0	6	288	633-1018-ND	118.48	110.59	Xg5
Single	24.0	5.0 ~ 28.0	5	120	633-1019-ND	95.48	89.12	Xg7
V1	24.0	5.0 ~ 28.0	3	72	633-1020-ND	122.22	114.08	Xg8
V2	24.0	5.0 ~ 28.0	3	72				
Bus Bar Parallel					633-1021-ND	1.40	1.26	XP1
Bus Bar Series					633-1022-ND	1.40	1.26	XS1

Note: See Designer's Manual for power derating. Use only in Excelsys powerPacs

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LX Series (IP67) LED Power Supplies

The LX series of constant current and voltage LED power supplies provide a range of LED power solutions from 30W to 300W. With industry leading efficiencies and an extensive protection feature set the LX series provides high reliability and high performance in a compact package.

Features: • Compact Size • High Efficiency up to 95% • IP67 Waterproof • OVP, OCP, SCP, OTP • Wide Input Voltage • No Minimum Load • EN55022 Conducted Level B • EN55022 Radiated Level B • EN61000-4-5 4kV L-E

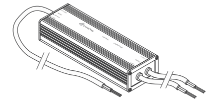

Output Voltage (V)	Output Current	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Excelsys Part No.
30 Watt						
42 ~ 85	350mA	633-1114-ND	47.24	41.99	39.37	LXC30-0350S
33 ~ 66	450mA	633-1115-ND	47.24	41.99	39.37	LXC30-0450S
21 ~ 42	700mA	633-1078-ND	49.13	43.68	40.95	LXC30-700S
18 ~ 36	830mA	633-1079-ND	47.24	41.99	39.37	LXC30-0830S
12 ~ 24	1.25A	633-1080-ND	47.24	41.99	39.37	LXC30-1250S
9 ~ 18	1.66A	633-1081-ND	47.24	41.99	39.37	LXC30-1660S
6 ~ 12	2.50A	633-1082-ND	47.24	41.99	39.37	LXC30-2500S
50 Watt						
71 ~ 142	350mA	633-1116-ND	58.79	52.26	48.99	LXC50-0350S
55 ~ 111	450mA	633-1117-ND	58.79	52.26	48.99	LXC50-0450S
35 ~ 71	700mA	633-1118-ND	58.79	52.26	48.99	LXC50-0700S
24 ~ 48	1.05A	633-1083-ND	58.79	52.26	48.99	LXC50-1050S
21 ~ 42	1.10A	633-1084-ND	58.79	52.26	48.99	LXC50-1100S
12 ~ 24	2.10A	633-1085-ND	58.79	52.26	48.99	LXC50-2100S
9 ~ 18	2.77A	633-1086-ND	58.79	52.26	48.99	LXC50-2770S
6 ~ 12	3.00A	633-1087-ND	58.79	52.26	48.99	LXC50-3000S
75 Watt						
12	6.25A	633-1090-ND	115.18	102.39	95.99	LXV75-012SW
24	3.13A	633-1091-ND	115.18	102.39	95.99	LXV75-024SW
36	2.08A	633-1092-ND	115.18	102.39	95.99	LXV75-036SW
42	1.79A	633-1093-ND	115.18	102.39	95.99	LXV75-042SW
48	1.56A	633-1094-ND	115.18	102.39	95.99	LXV75-048SW
54	1.39A	633-1095-ND	115.18	102.39	95.99	LXV75-054SW

Output Voltage (V)	Output Current	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Excelsys Part No.
100 Watt						
12	8.33A	633-1096-ND	123.37	109.66	102.81	LXV100-012SW
24	4.17A	633-1097-ND	123.37	109.66	102.81	LXV100-024SW
36	2.77A	633-1098-ND	123.37	109.66	102.81	LXV100-036SW
42	2.38A	633-1099-ND	123.37	109.66	102.81	LXV100-042SW
48	2.08A	633-1100-ND	123.37	109.66	102.81	LXV100-048SW
54	1.85A	633-1101-ND	123.37	109.66	102.81	LXV100-054SW
150 Watt						
12	12.50A	633-1102-ND	178.50	158.67	148.75	LXV150-012SW
24	6.25A	633-1103-ND	178.50	158.67	148.75	LXV150-024SW
36	4.17A	633-1104-ND	178.50	158.67	148.75	LXV150-036SW
42	3.57A	633-1105-ND	178.50	158.67	148.75	LXV150-042SW
48	3.13A	633-1106-ND	178.50	158.67	148.75	LXV150-048SW
54	2.78A	633-1107-ND	178.50	158.67	148.75	LXV150-054SW
200 Watt						
12	16.67A	633-1064-ND	193.16	171.70	160.97	LXV200-012S
24	8.33A	633-1065-ND	193.16	171.70	160.97	LXV200-024S
36	5.56A	633-1066-ND	193.16	171.70	160.97	LXV200-036S
42	4.76A	633-1067-ND	193.16	171.70	160.97	LXV200-042S
48	4.17A	633-1068-ND	193.16	171.70	160.97	LXV200-048S
54	3.70A	633-1069-ND	193.16	171.70	160.97	LXV200-054S
81	2.47A	633-1070-ND	193.16	171.70	160.97	LXV200-081S
105	1.90A	633-1071-ND	193.16	171.70	160.97	LXV200-105S

(Continued)

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excelsys LX Series (IP67) LED Power Supplies *(Cont.)*

Output Voltage (V)	Output Current	Digi-Key Part No.	Price Each 1	10	25	Excelsys Part No.
300 Watt						
12	23.30A	633-1108-ND	244.56	217.39	203.80	LXV300-012SW
24	12.50A	633-1109-ND	244.56	217.39	203.80	LXV300-024SW
36	8.33A	633-1110-ND	244.56	217.39	203.80	LXV300-036SW
42	7.14A	633-1111-ND	244.56	217.39	203.80	LXV300-042SW
48	6.25A	633-1112-ND	244.56	217.39	203.80	LXV300-048SW
54	2.85A	633-1113-ND	244.56	217.39	203.80	LXV300-054SW

TAMURA Switch Mode Power Supplies

H.A.L.T. TESTED Highly Accelerated Life Testing

AAD130/160 Series: • Electrical Specification: Input Voltage 90 ~ 264VAC, 47 ~ 63Hz, Load Regulation: ±1% for V1 and V2, ±5% for V3 and V4(AAD130 Series) or ±7% for V3, ±5% for V4(AAD160 Series); Power Factor: >0.98 at full load and 115/230VAC Input; Harmonic Distortion: Meets EN61000-3-2; Surge Withstand: Meets EN61000-4, Efficiency: Up to 88%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing **• Features:** Current Sharing, Remote Sense, AC Power Fail, Overshoot/ Undershoot, Overvoltage Protection, Short Circuit Protection, 2 yr. warranty

AAD600S Series: • Electrical Specification: Input voltage 85 ~ 264VAC, 47 ~ 63Hz; Load Regulation: ±0.25%; Power Factor: >0.99 at full load at 230VAC input; Surge Withstand: Meets EN61000-4-4 Level 3 and EN61000-4-5 Level 3, Efficiency: Up to 92%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing. **• Features:** Remote Sense, Current Sharing, AC Power Fail: Open Collector, DC OK: Open Collector: Overcurrent/ Short Circuit protection; Overvoltage Protection, Thermal Protection, 2 yr. warranty

PAS Series: • Electrical Specifications: Input Voltage: 85 ~ 132/180 ~ 264VAC, 47-63Hz; Load Regulation: ±0.5%; Harmonic Distortion: Meets EN61000-3-2 for Class A; Surge Withstand: Meets EN61000-4-5 Level 3; Efficiency: Up to 85%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing. **• Features:** Remote Sense, Thermal Shutdown, DC OK: Open Collector, AC Power Fail, Overvoltage and Reverse voltage protection, 2 yr. warranty

PAM Series (Medical Grade): • Electrical Specifications: Input Voltage: 85 ~ 132/180 ~ 264VAC, 47 ~ 63Hz; Load Regulation: ±0.5%; Harmonic Distortion: Meets EN61000-3-2 for Class A; Surge Withstand: Meets EN61000-4-5 Level 3; Efficiency: Up to 85%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing **• Features:** Remote Sense, Thermal Shutdown, DC OK: Open Collector, AC Power Fail, Overvoltage and Reverse voltage protection 2 yr. warranty

AAD130 / 160 Series

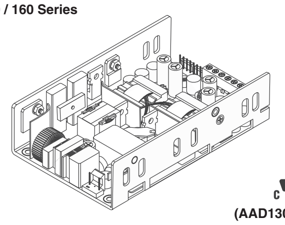

(AAD130 Series Only)

AAD600S Series

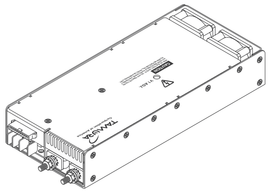

PAS / PAM Series

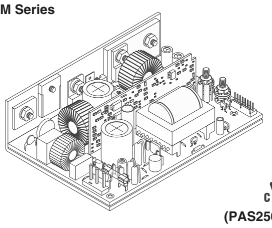

(PAS250 Series Only)

CFM Wattage (Pwr)‡	Convection Wattage§	Current Ratings				Dimensions Inches (mm) H x W x L	Input Power Housing	Input Power Contacts	Signal Housing	Signal Contacts	Digi-Key Part No.	Price Each			Tamura Part No.
		Voltage VDC	Min. Load (A)	Convection (A) Max. ▲	CFM Air (A) Max. ◊							1	10	25	
AAD130 Series															
130	80	5	0.5	7	14	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7334-ND	141.90	129.00	120.40	AAD130-3244-A
130	80	3.3	0.5	8	16		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	12	0.1	0.75	1.5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	-12	0.1	0.75	1.5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	5	0.5	7	14	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7335-ND	132.00	120.00	112.00	AAD130-3255-A
130	80	3.3	0.5	8	16		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	15	0.1	0.75	1.5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	-15	0.1	0.75	1.5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	5	0.5	7	14	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7337-ND	135.30	123.00	114.80	AAD130-3404-A
130	80	12	0.5	2.5	5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
130	80	-12	0.1	0.75	1.5		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
AAD160 Series															
160	80	5	1.6	8	16	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7340-ND	151.80	138.00	128.80	AAD160-3404-A
160	80	12	0.6	3	6		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
160	80	-12	0.1	1	2		WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ					
AAD600S Series															
600	—	48	—	—	12.5	1.59 x 4 x 9 (40.39 x 101.6 x 228.6)	—	—	455-1908-ND	455-1909-1-ND†	MT7343-ND	387.75	352.50	329.00	AAD600S-9-P
600	—	5★	—	—	1		—	—	455-1908-ND	455-1909-1-ND†					
PAS Series															
150	80	12	—	6.25	12.5	1.5 x 4 x 6 (38.1 x 101.6 x 152.4)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7328-ND	170.00	136.00	108.80	PAS150-4
150	80	24	—	3.25	6.5		WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7329-ND	112.20	102.00	95.20	PAS150-6
250	130	12	—	10.5	21	1.5 x 4 x 7 (38.1 x 101.6 x 177.8)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7331-ND	138.60	126.00	117.60	PAS250-4
250	130	24	—	5.25	10.5		WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7332-ND	138.60	126.00	117.60	PAS250-6
250	130	48	—	2.75	5.5		WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7333-ND	138.60	126.00	117.60	PAS250-9
PAM Series (Medical Grade)															
150	80	24	—	3.25	6.5	1.5 x 4 x 6 (38.1 x 101.6 x 152.4)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7322-ND	128.70	117.00	109.20	PAM150-6
250	130	15	—	8.5	17	1.5 x 4 x 7 (38.1 x 101.6 x 177.8)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7325-ND	148.50	135.00	126.00	PAM250-5
250	130	24	—	5.25	10.5		WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7326-ND	148.50	135.00	126.00	PAM250-6
250	130	48	—	2.75	5.5		WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7327-ND	148.50	135.00	126.00	PAM250-9

‡ CFM, forced air wattage rating of the power supply. ▲ Convection rating is 50% of CFM rating the combined amperage ratings not to exceed maximum rated convection wattage of the power supply ◊ The combined amperage ratings should not exceed maximum rated wattage of the power supply. § Convection wattage of the power supply. † For Tape and Reel part number, change 1-ND to 2-ND. Δ Crimp tool for connector contacts; WM9999-ND ★ Standby Power voltage available as long as AC input is present.

JST Mating Connector, Contact and Crimp Tool for AAD600S Series

Description	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 8,500	JST Part No.
10-Position 2.5mm Disconnectable Crimp Style SM Connector	455-1908-ND	.31	2.87	23.93	—	—	SMR-10V-N
22-28 AWG Tin Plated Phospher Bronze Crimp Pin Contact	455-1909-1-ND†	.07	.60	5.04	455-1909-2-ND	30.24/M	SYM-001T-P0.6(N)
Crimp Tool with Die for 22-28 AWG Contacts (for JST contacts only)	455-1910-ND	466.56	—	—	—	—	WC-121

† Cut Tape

TDK·Lambda
Innovating Reliable Power

Power Supplies

NEW! 100W to 150W AC/DC External Power Supplies

• CEC, Energy Star and EISA Compliant Models • Wide Range AC Input • Power Factor Correction • Low Profile and Lightweight

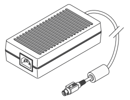

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	TDK-Lambda Part No.
DT100-150/C	12	8.34	100	285-1920-ND	84.01	79.81	DT100PW120C
	16	6.25	100	285-1921-ND	84.01	79.81	DT100PW160C
	19	5.27	100	285-1922-ND	84.01	79.81	DT100PW190C
	24	4.17	100	285-1923-ND	84.01	79.81	DT100PW240C
	36	2.78	100	285-1924-ND	84.01	79.81	DT100PW360C
	48	2.09	100	285-1925-ND	84.01	79.81	DT100PW480C
	12	11.67	140	285-1914-ND	94.00	89.30	DT150PW120C
	16	9.38	150	285-1915-ND	94.00	89.30	DT150PW160C
	19	7.9	150	285-1916-ND	94.00	89.30	DT150PW190C
	24	6.25	150	285-1917-ND	94.00	89.30	DT150PW240C
	36	4.17	150	285-1918-ND	94.00	89.30	DT150PW360C
	48	3.13	150	285-1919-ND	94.00	89.30	DT150PW480C

DIN Rail

Single Phase Features: DLP Series: • Low cost • 3 year warranty • Convection cooled **DLPPU Series:** • O-Ring diodes included • Alarm signals • LED indicators • DIN rail mounting **DPP Series:** • Low cost • Universal Input • Compact size • -10°C ~ 71°C operation • Convection cooled **DPP480 Series:** • Low cost • Wide range AC input • Active PFC • Parallel function switch • -25°C ~ 71°C operation • Convection cooled **DSP Series:** • Low profile for building automation • Wide range AC input • -25°C ~ 71°C operation • Convection cooled • DIN rail or chassis mount **3-Phase Features: DPP120-480 Series:** • Low cost • 12V, 24V, or 48V Outputs • Wide range 340 to 575VAC Input • Parallel function switch (240 and 480W Series) • -25°C ~ 71°C operation • Convection cooled ***Note:*** *For safety and EMI certifications, please see series data sheets.* ***Note****: DIN rail adapters also available for JWS and HWS series power supplies listed under enclosed case.*

Fig. 1 – DLP Series

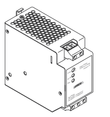

Fig. 2 – DLPPU Series

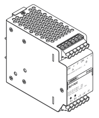

Fig. 3 – DPP Series

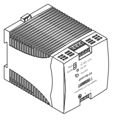

Fig. 4 – DPP480 Series

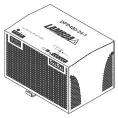

Fig. 5 – DSP Series

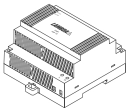

Fig. 6 – DSP Series *NEW!*

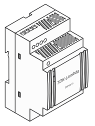

Fig.	Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	TDK-Lambda Part No.
				Single Phase				
1	DLP	24	3.1	75	285-1210-ND	62.00	61.00	DLP75241/E
	DLP	24	4.1	98.4	285-1206-ND	84.00	81.00	DLP100241/E
	DLP	24	5	120	285-1207-ND	90.00	87.00	DLP120241/E
	DLP	24	7.5	180	285-1208-ND	122.00	120.00	DLP180241/E
	DLP	24	10	240	285-1209-ND	145.00	140.00	DLP240241/E
2	DLPPU	21 ~ 28VDC	20	—	285-1211-ND	91.00	86.00	DLPPU/E
3	DPP	5	5	25	285-1214-ND	48.00	46.00	DPP25-5
	DPP	12	2.5	30	285-1215-ND	48.00	46.00	DPP30-12
	DPP	15	3.4	50	285-1218-ND	54.00	51.00	DPP50-15
	DPP	24	0.63	15	285-1213-ND	40.00	38.00	DPP15-24
	DPP	24	1.3	30	285-1216-ND	48.00	46.00	DPP30-24
	DPP	24	2.1	50	285-1219-ND	54.00	51.00	DPP50-24
	DPP	24	4.2	100	285-1212-ND	77.00	72.00	DPP100-24
	DPP	48	1.05	50	285-1220-ND	54.00	51.00	DPP50-48
4	DPP480	24	20	480	285-1217-ND	200.00	180.00	DPP480241
	DPP480	48	10	480	285-1832-ND	200.00	180.00	DPP480481
5	DSP	5	1.5	7.5	285-1228-ND	24.20	20.50	DSP10-5
	DSP	5	3	15	285-1232-ND	39.00	32.00	DSP30-5
	DSP	5	7	35	285-1236-ND	47.00	40.00	DSP60-5
	DSP	12	0.83	10	285-1225-ND	24.20	20.50	DSP10-12
5	DSP	12	2.1	25.2	285-1229-ND	39.00	32.00	DSP30-12
	DSP	12	4.5	54	285-1233-ND	47.00	40.00	DSP60-12
	DSP	12	6	72	285-1221-ND	61.43	52.00	DSP100-12
	DSP	15	0.67	10.1	285-1226-ND	24.20	20.50	DSP10-15
	DSP	15	2	30	285-1230-ND	39.00	32.00	DSP30-15
	DSP	15	4	60	285-1234-ND	47.00	40.00	DSP60-15
	DSP	15	5	75	285-1222-ND	61.43	52.00	DSP100-15
	DSP	24	0.42	10.1	285-1227-ND	24.20	20.50	DSP10-24
	DSP	24	1.3	31.2	285-1231-ND	39.00	32.00	DSP30-24
	DSP	24	2.5	60	285-1235-ND	47.00	40.00	DSP60-24
	DSP	24	3.8	91.2	285-1224-ND	61.43	52.00	DSP100-24/C2
	DSP	24	4.2	100.8	285-1223-ND	61.43	52.00	DSP100-24
6	DSP	24	1.25	30	285-1981-ND ***NEW!***	53.97	50.97	DSP3024/277A
				NEW! 3 Phase NEW!				
3	DPP120	12	10	120	285-1931-ND	104.00	98.80	DPP120-12-3
	DPP120	24	5	120	285-1932-ND	104.00	98.80	DPP120-24-3
	DPP240	24	10	240	285-1933-ND	141.00	133.95	DPP240-24-3
	DPP240	48	5	240	285-1934-ND	141.00	133.95	DPP240-48-3
4	DPP480	24	20	480	285-1935-ND	199.00	189.05	DPP480-24-3
	DPP480	48	10	480	285-1936-ND	199.00	189.05	DPP480-48-3

Board Mount — KPSA Series

Features:
• Low Profile • Smaller Footprint • PC Board mountable • Low cost • UL Class II Approved • Wide input range • No external components needed • Minimized PCB space • Global use with no manual intervention • Easy to use • No ground connection needed.

Note: *For safety and EMI certifications, please see series data sheets.*

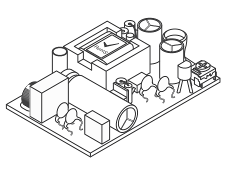

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	TDK-Lambda Part No.
KPSA	5	1	5	285-1773-ND	19.13	16.88	KPSA55
	5	2	10	285-1769-ND	24.48	21.60	KPSA105
	5	3	15	285-1771-ND	29.46	26.00	KPSA155
	12	0.42	5	285-1754-ND	19.13	16.88	KPSA512
	12	0.84	10.1	285-1750-ND	24.48	21.60	KPSA1012
	12	1.25	15	285-1752-ND	29.46	26.00	KPSA1512
	15	0.33	5	285-1772-ND	19.13	16.88	KPSA515
	15	0.67	10.1	285-1768-ND	24.48	21.60	KPSA1015
	15	1	15	285-1770-ND	29.46	26.00	KPSA1515
	24	0.23	5.5	285-1755-ND	19.13	16.88	KPSA524
	24	0.42	10.1	285-1751-ND	24.48	21.60	KPSA1024
	24	0.63	15.1	285-1753-ND	29.46	26.00	KPSA1524

Industrial AC/DC Open Case

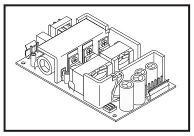

Features: EFE300- 400: • High efficiency • Active power factor correction • Universal Input (90 ~ 265VAC) • High peak loading capability • Suitable for 1U applications **HWS50-1500/HD Series:** • 5 year warranty • -10°C ~ 71°C operation (-40°C start up) • Universal input (85 ~ 265VAC) • Conformally coated pcbs **KPS Series:** • Small size and lightweight • PC board mountable • Low cost • Universal input voltage **SC40/60 Series:** • Low cost • Single and multiple outputs • Wide range AC input • Low profile **SCS120PW Series:** • Low profile • Convection cooled • Wide range AC input with PFC **ZP40/60 Series:** • Single and multiple outputs • Wide range AC input • Low profile, industry standard footprint **ZPSA20 Series:** • Single output • Wide range AC input • Low profile • Industry standard footprint **ZPSA40/60 Series:** • Single output • Wide range AC input • Low 1.07" profile • Industry standard footprint • Global Safety Agency Compliance **ZWS Series:** • Universal input (85 ~ 265VAC) • Power factor corrected (>50W) • Input transient protected • 2 year warranty • High quality design • Peak power capability **ZWS-AF Series:** • Universal input (85 ~ 265VAC) • Power factor corrected • Input transient protected • 2 year warranty • High quality design • Peak power capability **ZWS-PAF Series:** • Universal input (85 ~ 265VAC) • Power factor corrected • 200% peak power capability • 2 year warranty **MTW Series:** • 26mm height • 3 year warranty • Peak load capable • Light weight • Output 1 isolated from outputs 2 and 3 **ZWQ Series:** • Universal input (85 ~ 265VAC) • Power factor corrected • Floating adjustable fourth output • Low profile <1U high ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	TDK-Lambda Part No.
				Single Output			
EFE300-400	12	25.0	300	285-1871-ND	315.38	276.75	U2Y002G
	12	25.0	300	285-1872-ND	372.31	326.70	U2Y003H
	24	12.5	300	285-1873-ND	315.38	276.75	U2Y005K
	24	12.5	300	285-1874-ND	372.31	326.70	U2Y006L
	12	33.3	400	285-1875-ND	389.00	341.55	U4Y002H
	12	33.3	400	285-1876-ND	446.15	391.50	U4Y003J
	24	16.7	400	285-1877-ND	389.00	341.55	U4Y005L
	24	16.7	400	285-1878-ND	446.15	391.50	U4Y006M
HWS50-1500/HD	3.3	20	66	285-1275-ND	211.00	206.00	HWS100-3/HD
	5	10	50	285-1357-ND	151.00	147.00	HWS50-5/HD
	5	20	100	285-1280-ND	211.00	206.00	HWS100-5/HD
	5	30	150	285-1310-ND	273.00	264.01	HWS150-5/HD
	12	4.3	51.6	285-1343-ND	151.00	147.00	HWS50-12/HD
HWS50-1500/HD	12	8.5	102	285-1266-ND	211.00	206.00	HWS100-12/HD
	12	13	156	285-1296-ND	273.00	264.01	HWS150-12/HD
	15	3.5	52.5	285-1346-ND	151.00	147.00	HWS50-15/HD
	15	7	105	285-1269-ND	211.00	206.00	HWS100-15/HD
	15	10	150	285-1299-ND	273.00	264.01	HWS150-15/HD
	24	2.2	52.8	285-1349-ND	151.00	147.00	HWS50-24/HD
	24	4.5	108	285-1272-ND	211.00	206.00	HWS100-24/HD
	24	6.5	156	285-1302-ND	273.00	264.01	HWS150-24/HD
	48	1.1	52.8	285-1354-ND	151.00	147.00	HWS50-48/HD
KPS	3.3	1.25	4.1	285-1420-ND	18.00	17.00	KPS53R3
	3.3	2.50	8.3	285-1410-ND	23.00	21.50	KPS103R3
	3.3	3	9.9	285-1415-ND	27.50	26.00	KPS153R3
	5	1	5	285-1421-ND	18.00	17.00	KPS55

† 50W with 30CFM forced air cooling, derate linearly to 35W from 50°C ~ 70°C

(Continued)

Power Supplies

Industrial AC/DC Open Case *(Cont.)*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
					1	10	
KPS	5	2	10	285-1411-ND	23.00	21.50	KPS105
	5	3	15	285-1416-ND	27.50	26.00	KPS155
	12	0.42	5	285-1417-ND	18.00	17.00	KPS512
	12	0.84	10.1	285-1407-ND	23.00	21.50	KPS1012
	12	1.25	15	285-1412-ND	27.50	26.00	KPS1512
	15	1	15	285-1413-ND	27.50	26.00	KPS1515
	24	0.63	15.1	285-1414-ND	27.50	26.00	KPS1524
SC40/60	12	5	60	285-1586-ND	74.80	66.87	SCS6012
	24	1.6	40	285-1581-ND	65.00	62.30	SCS4024
	24	2.5	60	285-1588-ND	74.80	66.87	SCS6024
	28	2.1	60	285-1589-ND	74.80	66.87	SCS6028
	48	0.9	40	285-1584-ND	65.00	62.30	SCS4048
	48	1.3	60	285-1591-ND	74.80	66.87	SCS6048
SCS120PW	12	10	120	285-1576-ND	60.00	58.00	SCS120PW12
	15	8	120	285-1577-ND	60.00	58.00	SCS120PW15
	24	5	120	285-1578-ND	60.00	58.00	SCS120PW24
	30	4	120	285-1966-ND ***NEW!***	60.00	57.00	SCS120PW30
	32	3.75	120	285-1967-ND ***NEW!***	60.00	57.00	SCS120PW32
	36	3.34	120	285-1968-ND ***NEW!***	60.00	57.00	SCS120PW36
	48	2.5	120	285-1969-ND ***NEW!***	60.00	57.00	SCS120PW48
ZP40/60	5	8	40	285-1660-ND	40.00	38.00	ZPS605
	24	1.67	40	285-1651-ND	36.00	34.00	ZPS4024
ZPSA20	3.3	4.4	20	285-1744-ND	22.95	20.25	ZPSA20-3R3
	5	4.4	20	285-1745-ND	22.95	20.25	ZPSA20-5
	9	2.45	20	285-1746-ND	22.95	20.25	ZPSA20-9
	12	1.8	20	285-1747-ND	22.95	20.25	ZPSA20-12
	15	1.4	20	285-1748-ND	22.95	20.25	ZPSA20-15
	24	0.92	20	285-1749-ND	22.95	20.25	ZPSA20-24
ZPSA40	3.3	6.0	20	285-1838-ND	28.46	25.16	ZPSA403R3
	5	6.0	30	285-1840-ND	28.46	25.16	ZPSA405
	12	3.34	40	285-1833-ND	28.46	25.16	ZPSA4012
	15	2.67	40	285-1834-ND	28.46	25.16	ZPSA4015
	24	1.67	40	285-1835-ND	28.46	25.16	ZPSA4024
	28	1.43	40	285-1836-ND	28.46	25.16	ZPSA4028
	36	1.11	40	285-1837-ND	28.46	25.16	ZPSA4036
	48	0.834	40	285-1839-ND	28.46	25.16	ZPSA4048
ZPSA60	3.3	8.0	26	285-1846-ND	30.77	27.20	ZPSA603R3
	5	8.0	40	285-1848-ND	30.77	27.20	ZPSA605
	12	5.0	60	285-1841-ND	30.77	27.20	ZPSA6012
	15	4.0	60	285-1842-ND	30.77	27.20	ZPSA6015
	24	2.5	60	285-1843-ND	30.77	27.20	ZPSA6024
	28	2.14	60	285-1844-ND	30.77	27.20	ZPSA60-28
	36	1.67	60	285-1845-ND	30.77	27.20	ZPSA6036
	48	1.25	60	285-1847-ND	30.77	27.20	ZPSA6048
ZWS	3.3	1	3.3	285-1733-ND	21.00	20.00	ZWS5-3
	3.3	6	19.8	285-1724-ND	34.00	33.00	ZWS30-3
	5	1	5	285-1734-ND	21.00	20.00	ZWS5-5
	5	2	10	285-1704-ND	25.00	24.00	ZWS10-5
	5	3	15	285-1717-ND	29.50	28.00	ZWS15-5
	5	10	50	285-1730-ND	42.00	40.00	ZWS50-5
	12	0.85	10.2	285-1702-ND	25.00	24.00	ZWS10-12
	12	1.25	15	285-1714-ND	29.50	28.00	ZWS15-12
	12	2.5	30	285-1721-ND	34.00	33.00	ZWS30-12
	12	4.3	51.6	285-1726-ND	42.00	40.00	ZWS50-12
	15	0.34	5.1	285-1731-ND	21.00	20.00	ZWS515
	15	1	15	285-1715-ND	29.50	28.00	ZWS15-15
	15	2	30	285-1722-ND	34.00	33.00	ZWS30-15
	15	3.5	52.5	285-1727-ND	42.00	40.00	ZWS50-15
	24	0.45	10.8	285-1703-ND	25.00	24.00	ZWS10-24
	24	1.3	31.2	285-1723-ND	34.00	33.00	ZWS30-24
	24	2.1	50.4	285-1728-ND	42.00	40.00	ZWS50-24
	36	0.9	32.4	285-1725-ND	34.00	33.00	ZWS30-36
	36	1.4	50.4	285-1729-ND	42.00	40.00	ZWS50-36
ZWS-AF	3.3	20	66	285-1698-ND	78.00	74.00	ZWS100AF3
	5	15	75	285-1739-ND	68.00	66.00	ZWS75AF5
	5	20	100	285-1701-ND	78.00	74.00	ZWS100AF5
	5	30	150	285-1710-ND	98.00	95.00	ZWS150AF5
	12	6.3	75.6	285-1735-ND	68.00	66.00	ZWS75AF12
	12	8.5	102	285-1695-ND	78.00	74.00	ZWS100AF12
	12	12.5	150	285-1705-ND	98.00	95.00	ZWS150AF12
	15	5	75	285-1736-ND	68.00	66.00	ZWS75AF15
	15	6.7	100.5	285-1696-ND	78.00	74.00	ZWS100AF15
	15	10	150	285-1706-ND	98.00	95.00	ZWS150AF15
	24	3.2	76.8	285-1737-ND	68.00	66.00	ZWS75AF24
	24	4.3	103.2	285-1697-ND	78.00	74.00	ZWS100AF24
	24	6.3	151.2	285-1707-ND	98.00	95.00	ZWS150AF24
	36	2.8	100.8	285-1699-ND	78.00	74.00	ZWS100AF36
ZWS-AF	36	4.2	151.2	285-1708-ND	98.00	95.00	ZWS150AF36
	48	1.6	76.8	285-1738-ND	68.00	66.00	ZWS75AF48
	48	2.1	100.8	285-1700-ND	78.00	74.00	ZWS100AF48
	48	3.2	153.6	285-1709-ND	98.00	95.00	ZWS150AF48
ZWS-PAF	24	6.3	151.2	285-1711-ND	120.00	118.00	ZWS150PAF24
	24	10	240	285-1718-ND	159.00	154.00	ZWS240PAF24
	36	4.2	151.2	285-1712-ND	120.00	118.00	ZWS150PAF36
	36	6.7	241.2	285-1719-ND	159.00	154.00	ZWS240PAF36
	48	3.1	148.8	285-1713-ND	120.00	118.00	ZWS150PAF48
	48	5	240	285-1720-ND	159.00	154.00	ZWS240PAF48
Dual Output							
SC40/60	15 -15	2.2 1.8	60	285-1575-ND	66.00	61.00	SCD601515
Triple Output							
MTW	5 12 -12	2 0.3 0.2	16	285-1475-ND	31.75	31.00	MTW15-51212
	5 15 -15	2 0.3 0.2	17.5	285-1476-ND	31.75	31.00	MTW15-51515
	5 12 -12	3 1.2 0.3	30	285-1477-ND	41.00	40.00	MTW30-51212
	5 15 -15	3 0.8 0.3	33	285-1478-ND	41.00	40.00	MTW30-51515
	5 15 -15	5 2 0.5	62.5	285-1480-ND	66.00	64.00	MTW60-51515
SC40/60	5 12 -12	4 2 0.5	40	285-1594-ND	69.00	66.13	SCT42
	5 24 -5	4 1 0.5	40	285-1600-ND	69.00	66.13	SCT48
	5 12 -12	7 3 0.7	60	285-1601-ND	71.82	66.39	SCT62
ZP40	5 12 -5	3.2 2 0.3	40.5†	285-1662-ND	48.00	45.00	ZPT405125N
	5 12 -12	3.2 2 0.3	42.6†	285-1661-ND	48.00	45.00	ZPT4051212N
	5 15 -15	3.2 1.5 0.3	42†	285-1663-ND	48.00	45.00	ZPT4051515N
	5 24 -5	3.2 1 0.3	40.5†	285-1665-ND	48.00	45.00	ZPT405245N
Quad Output							
ZWQ	5 12 -12 12	8 2 2 3	80	285-1691-ND	148.00	143.00	ZWQ805222
	5 12 -12 3.3	8 2 2 7	80	285-1692-ND	148.00	143.00	ZWQ805223
	5 12 -12 24	8 2 2 1.5	80	285-1693-ND	148.00	143.00	ZWQ805224
	5 12 -12 5	8 2 2 7	80	285-1694-ND	148.00	143.00	ZWQ805225
	5 12 -12 12	15 4 4 4	130	285-1687-ND	165.00	157.00	ZWQ1305222
	5 12 -12 3.3	15 4 4 10	130	285-1688-ND	165.00	157.00	ZWQ1305223
	5 12 -12 24	15 4 4 2	130	285-1689-ND	165.00	157.00	ZWQ1305224
	5 12 -12 5	15 4 4 10	130	285-1690-ND	165.00	157.00	ZWQ1305225

† 50W with 30CFM forced air cooling, derate linearly to 35W from 50°C ~ 70°C

Industrial Enclosed Case

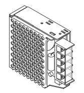

Features: HK-A Series: • 3 year warranty • Small size • 85 ~ 132VAC input, 47 ~ 440Hz • ±10% output adjustment **HWS/HWS300-1500 Series:** • 5 year warranty • Universal input (85 ~ 265VAC) • High efficiency **HWS50-1500/HD Series:** • 5 year warranty • -10°C ~ 71°C operation (-40°C start up) • Universal input (85 ~ 265VAC) • Conformally coated pcbs **JWS/JWT Series:** • 5 year warranty • Power factor corrected • Universal input (85 ~ 265VAC) **JWS508 Series:** • 5 year warranty • Power factor corrected • Universal input (85 ~ 265VAC) **LS Series:** • 3 year warranty • Small size • Low cost • 115VAC or 230VAC input • Withstands 300VAC surges (5s) **LS200 Series:** • 3 year warranty • Small size • Low cost • 85VAC or 264VAC input **LZSA Series:** • 5 year warranty • -40°C ~ 71°C operation • MIL-STD-810E vibration/shock • Input transient protected **SWS Series:** • Low cost • Universal input (85 ~ 265VAC) **SWS300/600 Series:** • Low cost • Active power factor correction • Universal input (85 ~ 265VAC) ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
					1	10	
Single Output							
HK-A	5	2	10	285-1248-ND	27.00	26.00	HK10A-5/A
	5	3	15	285-1256-ND	33.00	32.00	HK15A-5/A
	5	5	25	285-1260-ND	39.00	38.00	HK25A-5/A
	5	10	50	285-1264-ND	56.50	55.00	HK50A-5/A
	5	20	100	285-1244-ND	94.00	92.00	HK100A-5/A
	5	30	150	285-1252-ND	128.00	125.00	HK150A-5/A
HK-A	12	0.9	10.8	285-1245-ND	27.00	26.00	HK10A-12/A
	12	1.3	15.6	285-1253-ND	33.00	32.00	HK15A-12/A
	12	2.1	25.2	285-1257-ND	39.00	38.00	HK25A-12/A
	12	4.2	50.4	285-1261-ND	56.50	55.00	HK50A-12/A
	12	8.5	102	285-1241-ND	94.00	92.00	HK100A-12/A
	12	12.5	150	285-1249-ND	128.00	125.00	HK150A-12/A

‡ 100/200VAC Input § Peak rating of 120A for 10s

(Continued)

Power Supplies

Industrial Enclosed Case *(Cont.)*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
					1	10	
HK-A	15	0.7	10.5	285-1246-ND	27.00	26.00	HK10A-15/A
	15	1	15	285-1254-ND	33.00	32.00	HK15A-15/A
	15	1.7	25.5	285-1258-ND	39.00	38.00	HK25A-15/A
	15	3.4	51	285-1262-ND	56.50	55.00	HK50A-15/A
	15	7	105	285-1242-ND	94.00	92.00	HK100A-15/A
	15	10	150	285-1250-ND	128.00	125.00	HK150A-15/A
	24	0.5	12	285-1247-ND	27.00	26.00	HK10A-24/A
	24	0.7	16.8	285-1255-ND	33.00	32.00	HK15A-24/A
	24	1.1	26.4	285-1259-ND	39.00	38.00	HK25A-24/A
	24	2.2	52.8	285-1263-ND	56.50	55.00	HK50A-24/A
	24	4.5	108	285-1243-ND	94.00	92.00	HK100A-24/A
	24	6.5	156	285-1251-ND	128.00	125.00	HK150A-24/A
HWS	3.3	3	9.9	285-1315-ND	42.00	40.00	HWS15-3/A
	3.3	6	19.8	285-1337-ND	54.00	52.00	HWS30-3/A
	3.3	10	33	285-1351-ND	115.00	111.00	HWS50-3/A
	3.3	20	66	285-1274-ND	166.00	161.00	HWS100-3/A
	3.3	30	99	285-1304-ND	216.00	208.00	HWS150-3/A
	5	3	15	285-1317-ND	42.00	40.00	HWS15-5/A
	5	6	30	285-1340-ND	54.00	52.00	HWS30-5/A
	5	10	50	285-1356-ND	115.00	111.00	HWS50-5/A
	5	20	100	285-1279-ND	166.00	161.00	HWS100-5/A
	5	30	150	285-1309-ND	216.00	208.00	HWS150-5/A
	12	1.3	15.6	285-1312-ND	42.00	40.00	HWS15-12/A
	12	2.5	30	285-1331-ND	54.00	52.00	HWS30-12/A
	12	8.5	102	285-1265-ND	166.00	161.00	HWS100-12/A
	12	13	156	285-1295-ND	216.00	208.00	HWS150-12/A
	15	1	15	285-1313-ND	42.00	40.00	HWS15-15/A
	15	2	30	285-1333-ND	54.00	52.00	HWS30-15/A
	15	3.5	52.5	285-1345-ND	115.00	111.00	HWS50-15/A
	15	7	105	285-1268-ND	166.00	161.00	HWS100-15/A
	15	10	150	285-1298-ND	216.00	208.00	HWS150-15/A
	24	0.65	15.6	285-1314-ND	42.00	40.00	HWS15-24/A
	24	2.2	52.8	285-1348-ND	115.00	111.00	HWS50-24/A
	24	6.5	156	285-1301-ND	216.00	208.00	HWS150-24/A
	48	0.33	15.84	285-1316-ND	42.00	40.00	HWS15-48/A
	48	0.65	31.2	285-1338-ND	54.00	52.00	HWS30-48/A
	48	1.1	52.8	285-1353-ND	115.00	111.00	HWS50-48/A
	48	2.1	100.8	285-1276-ND	166.00	161.00	HWS100-48/A
	48	3.3	158.4	285-1306-ND	216.00	208.00	HWS150-48/A
HWS300-1500	3.3	60	198	285-1325-ND	365.00	328.01	HWS300-3
	3.3	120	396	285-1366-ND	555.00	540.00	HWS600-3
	5	60	300	285-1329-ND	365.00	328.01	HWS300-5
	5	120	600	285-1370-ND	555.00	540.00	HWS600-5
	12	53	636	285-1359-ND	555.00	540.00	HWS600-12
	15	22	330	285-1320-ND	365.00	328.01	HWS300-15
	15	43	645	285-1361-ND	555.00	540.00	HWS600-15
	15	100	1,500	285-1284-ND	1200.00	1125.01	HWS150015
	24	14	336	285-1322-ND	365.00	328.01	HWS300-24
	24	27	648	285-1363-ND	555.00	540.00	HWS600-24
	24	65/70‡	1,560/1,680	285-1286-ND	1200.00	1125.01	HWS150024
	48	7	336	285-1327-ND	365.00	328.01	HWS300-48
	48	13	624	285-1368-ND	555.00	540.00	HWS600-48
HWS50-1500/HD	3.3	60	198	285-1326-ND	484.00	435.00	HWS300-3/HD
	3.3	120	396	285-1367-ND	605.00	586.00	HWS600-3/HD
	5	60	300	285-1330-ND	484.00	435.00	HWS300-5/HD
	5	120	600	285-1371-ND	620.00	602.01	HWS600-5HD
	12	27	324	285-1319-ND	484.00	435.00	HWS300-12/HD
	15	22	330	285-1321-ND	484.00	435.00	HWS300-15/HD
	15	43	645	285-1362-ND	620.00	602.01	HWS600-15/HD
	15	100	1500	285-1285-ND	1550.00	1475.01	HWS150015/HD
	24	14	336	285-1323-ND	484.00	435.00	HWS300-24/HD
	24	27	648	285-1364-ND	620.00	602.01	HWS600-24/HD
	24	65/70‡	1560/1680‡	285-1287-ND	1550.00	1475.01	HWS150024/HD
	36	42/46.5‡	1512/1674‡	285-1290-ND	1550.00	1475.01	HWS150036/HD
	48	7	336	285-1328-ND	484.00	435.00	HWS300-48/HD
JWS	3.3	20	66	285-1384-ND	204.25	198.88	JWS1003/A
	5	10	50	285-1048-ND	129.00	124.70	JWS505/A
	5	20	100	285-1057-ND	204.25	198.88	JWS1005/A
	5	30	150	285-1061-ND	265.53	256.93	JWS1505/A
	5	60	300	285-1101-ND	410.65	370.88	JWS3005
	5	120	600	285-1105-ND	627.81	596.63	JWS6005
	12	4.3	51.6	285-1049-ND	129.00	124.70	JWS5012/A
	12	6.3	75.6	285-1054-ND	173.08	163.41	JWS7512/A
	12	8.5	102	285-1058-ND	204.25	198.88	JWS10012/A
	12	27	324	285-1102-ND	410.65	370.88	JWS30012
	12	53	636	285-1106-ND	627.81	596.63	JWS60012
	15	3.5	52.5	285-1393-ND	129.00	124.70	JWS5015/A
	15	7	105	285-1382-ND	204.25	198.88	JWS10015/A
	15	10	150	285-1385-ND	265.53	256.93	JWS15015/A
	15	22	330	285-1387-ND	410.65	370.88	JWS30015
	15	43	645	285-1396-ND	627.81	596.63	JWS60015
	24	2.2	52.8	285-1050-ND	129.00	124.70	JWS5024/A
	24	4.5	108	285-1059-ND	204.25	198.88	JWS10024/A
	24	6.5	156	285-1063-ND	265.53	256.93	JWS15024/A
	24	14	336	285-1103-ND	410.65	370.88	JWS30024
	24	27	648	285-1107-ND	627.81	596.63	JWS60024
	28	2	56	285-1394-ND	129.00	124.70	JWS5028/A
	28	3.6	100.8	285-1383-ND	204.25	198.88	JWS10028/A
	28	12	336	285-1390-ND	410.65	370.88	JWS30028
	28	23	644	285-1398-ND	627.81	596.63	JWS60028
	48	1.1	52.8	285-1051-ND	129.00	124.70	JWS5048/A
	48	3.3	158.4	285-1064-ND	265.53	256.93	JWS15048/A
JWS	48	6.5	312	285-1104-ND	410.65	370.88	JWS30048
	48	13	624	285-1108-ND	627.81	596.63	JWS60048
JWS508	24	3	72	285-1401-ND	263.68	228.98	JWS70P24/508
	24	10	240	285-1386-ND	528.56	426.78	JWS240P24/508
	24	14	336	285-1389-ND	410.65	370.88	JWS30024/508
LS	3.3	6	20	285-1887-ND	16.83	16.44	LS25-3.3
	3.3	7	23	285-1894-ND	19.03	18.44	LS35-3.3
	3.3	10	33	285-1821-ND	25.26	24.80	LS50-3.3
	3.3	15	49.5	285-1828-ND	29.61	29.06	LS75-3.3
	3.3	20	66	285-1807-ND	31.93	30.94	LS100-3.3
	3.3	30	99	285-1814-ND	38.03	36.57	LS150-3.3
	5	5	25	285-1890-ND	16.83	16.44	LS25-5
	5	7	35	285-1897-ND	19.03	18.44	LS35-5
	5	10	50	285-1824-ND	25.26	24.80	LS50-5
	5	12	60	285-1831-ND	29.61	29.06	LS75-5
	5	16	80	285-1810-ND	31.93	30.94	LS100-5
	5	26	130	285-1817-ND	38.03	36.57	LS150-5
	12	2.1	25	285-1884-ND	16.45	16.07	LS25-12
	12	3	36	285-1891-ND	18.25	17.69	LS35-12
	12	4.2	50.4	285-1818-ND	24.87	24.41	LS50-12
	12	6	72	285-1825-ND	28.97	28.44	LS75-12
	12	8.5	102	285-1804-ND	30.55	29.38	LS100-12
	12	12.5	150	285-1811-ND	35.48	34.38	LS150-12
	15	1.7	26	285-1885-ND	16.45	16.07	LS25-15
	15	2.4	36	285-1892-ND	18.25	17.69	LS35-15
	15	3.4	51	285-1819-ND	24.87	24.41	LS50-15
	15	5	75	285-1826-ND	28.97	28.44	LS75-15
	15	7	105	285-1805-ND	30.55	29.38	LS100-15
	15	10	150	285-1812-ND	35.50	34.38	LS150-15
	24	1.1	26	285-1886-ND	16.45	16.07	LS25-24
	24	1.5	36	285-1893-ND	18.25	17.69	LS35-24
	24	2.2	52.8	285-1820-ND	24.87	24.41	LS50-24
	24	3.2	76.8	285-1827-ND	28.97	28.44	LS75-24
	24	4.5	108	285-1806-ND	30.55	29.38	LS100-24
	24	6.5	156	285-1813-ND	35.48	34.38	LS150-24
	36	0.75	27	285-1888-ND	16.83	16.44	LS25-36
	36	1	36	285-1895-ND	19.03	18.44	LS35-36
	36	1.4	50.4	285-1822-ND	24.87	24.41	LS50-36
	36	2.1	75.6	285-1829-ND	28.97	28.44	LS75-36
	36	3	108	285-1808-ND	37.11	36.42	LS100-36
	36	4.3	154.8	285-1815-ND	35.48	34.38	LS150-36
	48	0.57	27	285-1889-ND	16.83	16.44	LS25-48
	48	0.8	38	285-1896-ND	19.03	18.44	LS35-48
	48	1.1	52.8	285-1823-ND	24.87	24.41	LS50-48
	48	1.6	76.8	285-1830-ND	28.97	28.44	LS75-48
	48	2.3	110.4	285-1809-ND	30.55	29.38	LS100-48
	48	3.3	158.4	285-1816-ND	35.48	34.38	LS150-48
LS200	5	40	200	285-1983-ND ***NEW!***	58.52	55.94	LS200-5
	12	16.7	200	285-1984-ND ***NEW!***	55.58	53.13	LS200-12
	15	13.4	200	285-1985-ND ***NEW!***	55.58	53.13	LS200-15
	24	8.4	200	285-1986-ND ***NEW!***	55.58	53.13	LS200-24
	48	4.2	200	285-1982-ND ***NEW!***	55.58	53.13	LS200-48
LZSA	24	42	1008	285-1455-ND	1300.00	1175.01	LZSA-1000-3
SWS	3.3	10	33	285-1626-ND	37.00	36.00	SWS503
	5	10	50	285-1627-ND	37.00	36.00	SWS505
	5	15	75	285-1638-ND	42.50	42.00	SWS755
	5	20	100	285-1611-ND	54.00	53.00	SWS1005
	5	30	150	285-1615-ND	65.00	63.00	SWS1505
	12	4.3	51.6	285-1623-ND	37.00	36.00	SWS5012
	12	8.5	102	285-1608-ND	54.00	53.00	SWS10012
	12	12.5	150	285-1612-ND	65.00	63.00	SWS15012
	15	3.5	52.5	285-1624-ND	37.00	36.00	SWS5015
	15	5	75	285-1636-ND	42.50	42.00	SWS7515
	15	10	150	285-1613-ND	65.00	63.00	SWS15015
	24	3.2	76.8	285-1637-ND	42.50	42.00	SWS7524
	24	4.3	103.2	285-1610-ND	54.00	53.00	SWS10024
	24	6.3	151.2	285-1614-ND	65.00	63.00	SWS15024
SWS300/600	3.3	55	181.5	285-1619-ND	125.00	121.00	SWS3003
	5	55	275	285-1622-ND	125.00	121.00	SWS3005
	5	100§	500	285-1634-ND	224.00	217.00	SWS6005
	12	26	312	285-1616-ND	125.00	121.00	SWS30012
	12	50	600	285-1628-ND	224.00	217.00	SWS60012
	15	21	315	285-1617-ND	125.00	121.00	SWS30015
	15	40	600	285-1629-ND	224.00	217.00	SWS60015
	24	13	312	285-1618-ND	125.00	121.00	SWS30024
	24	25	600	285-1630-ND	224.00	217.00	SWS60024
	36	8.7	313.2	285-1620-ND	125.00	121.00	SWS30036
	36	16.7	601.2	285-1632-ND	224.00	217.00	SWS60036
	48	6.7	321.6	285-1621-ND	125.00	121.00	SWS30048
	48	12.5	600	285-1633-ND	224.00	217.00	SWS60048
Triple Output							
JWT	5 12 -12	8 4 0.5	75	285-1405-ND	177.00	167.00	JWT75-522/A
	5 15 -15	8 3.2 0.5	75	285-1406-ND	177.00	167.00	JWT75-5FF/A
	5 12 -12	13 5.5 1	100	285-1403-ND	209.00	204.00	JWT100-522/A
	5 15 -15	13 4.5 1	100	285-1404-ND	209.00	204.00	JWT100-5FF/A

‡ 100/200VAC Input § Peak rating of 120A for 10s

(Continued)

Medical Open Case

Features: CSS65/CSS150 Series: • Wide range AC input • Low profile • Industry standard footprint • Global Safety Agency Compliance **EFE300M:** • Fully featured - including O-Ring diode • High efficiency • Universal Input (90 ~ 264VAC) • 400W peak loading • Suitable for 1U applications **HWS30-1500/ME Series:** • 5 year warranty • Medical approvals • Universal input (85 ~ 265VAC) • High efficiency ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
				Single Output			
CSS65	5	8.0	40	285-1860-ND	35.72	—	CSS655
	12	5.0	60	285-1854-ND	35.72	—	CSS6512
	15	4.0	60	285-1855-ND	35.72	—	CSS6515
	19	3.43	65	285-1856-ND	35.72	—	CSS6519
	24	2.71	65	285-1857-ND	35.72	—	CSS6524
	36	1.81	65	285-1858-ND	35.72	—	CSS6536
	48	1.36	65	285-1859-ND	35.72	—	CSS6548
CSS150	12	12.5	150	285-1973-ND ***NEW!***	68.50	61.00	CSS150-12
	15	10	150	285-1974-ND ***NEW!***	68.50	61.00	CSS150-15
	24	6.3	150	285-1975-ND ***NEW!***	68.50	61.00	CSS150-24
	36	4.2	150	285-1976-ND ***NEW!***	68.50	61.00	CSS150-36
	48	3.1	150	285-1977-ND ***NEW!***	68.50	61.00	CSS150-48
EFE300M	12	25	300	285-1879-ND	389.00	341.55	U5Y0020
	12	25	300	285-1880-ND	446.15	391.50	U5Y0031
	24	12.5	300	285-1881-ND	389.00	341.55	U5Y0053

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
EFE300M	24	12.5	300	285-1882-ND	446.15	391.50	U5Y0064
	48	6.25	300	285-1978-ND ***NEW!***	446.15	326.25	U5Y0166
	48	6.25	300	285-1979-ND ***NEW!***	389.00	284.63	U5Y0201
HWS30-1500/ME	5	6	30	285-1341-ND	54.00	52.00	HWS30-5/ME
	5	10	50	285-1358-ND	122.00	118.00	HWS50-5/ME
	5	30	150	285-1311-ND	221.00	215.00	HWS150-5/ME
	12	2.5	30	285-1332-ND	54.00	52.00	HWS30-12/ME
	12	13	156	285-1297-ND	221.00	215.00	HWS150-12/ME
	15	2	30	285-1334-ND	54.00	52.00	HWS30-15/ME
	15	3.5	52.5	285-1347-ND	122.00	118.00	HWS50-15/ME
	24	1.3	31.2	285-1336-ND	54.00	52.00	HWS30-24/ME
	24	6.5	156	285-1303-ND	221.00	215.00	HWS150-24/ME
	48	1.1	52.8	285-1355-ND	122.00	118.00	HWS50-48/ME
	48	2.1	100.8	285-1278-ND	168.00	163.00	HWS100-48/ME
	48	3.3	158.4	285-1308-ND	221.00	215.00	HWS150-48/ME

Medical Enclosed Case

Features: HWS50-1500/ME Series: • 5 year warranty • Medical approvals • Universal input (85 ~ 265VAC) • High efficiency **SWS600L/1000L Series:** • Low cost • Low profile • Active power factor correction • Universal input (85 ~ 265VAC) • Low acoustical noise • 3 year warranty ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
				Single Output			
HWS50-1500/ME	24	14	336	285-1324-ND	410.00	368.00	HWS300-24/ME
	24	27	648	285-1365-ND	605.00	586.00	HWS600-24/ME
SWS600L	3.3	120	396	285-1789-ND	241.54	217.00	SWS600L-3
	5	120	600	285-1743-ND	240.21	211.95	SWS600L-5
	12	53	636	285-1741-ND	240.21	211.95	SWS600L-12
	15	43	645	285-1788-ND	241.54	217.00	SWS600L-15
	24	27/31†	648/744†	285-1742-ND	240.21	211.95	SWS600L-24
	36	18	648	285-1790-ND	241.54	217.00	SWS600L-36
	48	13/15†	624/720†	285-1791-ND	241.54	217.00	SWS600L-48

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
SWS600L	60	10	600	285-1792-ND	241.54	217.00	SWS600L-60
SWS1000L	3.3	200	660	285-1796-ND	546.15	515.00	SWS1000L-3
	5	200	1000	285-1799-ND	546.15	515.00	SWS1000L-5
	12	88	1056	285-1793-ND	546.15	515.00	SWS1000L-12
	15	70	1050	285-1794-ND	546.15	515.00	SWS1000L-15
	24	44/51†	1056/1224†	285-1795-ND	546.15	515.00	SWS1000L-24
	36	29	1044	285-1797-ND	546.15	515.00	SWS1000L-36
	48	22/25†	1056/1200†	285-1798-ND	546.15	515.00	SWS1000L-48
	60	17	1020	285-1800-ND	546.15	515.00	SWS1000L-60

† Peak current and power possible at 170-26VAC input, 10s maximum, 35% duty cycle

DIN Rail Kits and Brackets for Power Supplies

Description	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
DIN Rail Kit for JWS50 and JWS75	285-1440-ND	12.50	11.30	LDIN50/75
DIN Rail Kit for JWS100 and JWS150	285-1437-ND	14.50	13.00	LDIN100/150
DIN Rail Kit for JWS300 and JWS600	285-1439-ND	65.00	62.00	LDIN300/600

Description	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
DIN Rail Bracket for HWS15 and HWS30	285-1203-ND	16.75	15.00	DIN01
DIN Rail Bracket for HWS100 and HWS150	285-1205-ND	20.00	18.50	DIN03

ZUP Series Programmable

Features: • Constant voltage/constant current • Last setting memory • Digital meters • Built-in RS232 and RS485 interface with GPIB optional • Bench or rack mount • Embedded microprocessor controller • Voltage up to 120V, current up to 132A ***Note:*** For safety and EMI certifications, please see data sheets.

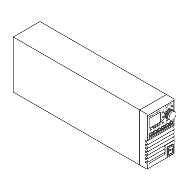

Voltage Range (V)	Current Range (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
0 ~ 6	0 ~ 33	198	285-1683-ND	1043.96	939.12	ZUP6-33/U
0 ~ 6	0 ~ 66	396	285-1684-ND	1377.01	1239.42	ZUP6-66/U
0 ~ 6	0 ~ 132	792	285-1682-ND	1949.22	1754.85	ZUP6-132/U
0 ~ 10	0 ~ 20	200	285-1668-ND	1043.95	939.12	ZUP10-20/U
0 ~ 10	0 ~ 40	400	285-1669-ND	1377.02	1239.43	ZUP10-40/U
0 ~ 10	0 ~ 80	800	285-1670-ND	1949.22	1754.85	ZUP10-80/U
0 ~ 20	0 ~ 10	200	285-1673-ND	1043.95	939.12	ZUP20-10/U
0 ~ 20	0 ~ 20	400	285-1674-ND	1377.02	1239.43	ZUP20-20/U
0 ~ 20	0 ~ 40	800	285-1675-ND	1949.22	1754.85	ZUP20-40/U
0 ~ 36	0 ~ 6	216	285-1678-ND	1043.96	939.12	ZUP36-6/U

Voltage Range (V)	Current Range (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
0 ~ 36	0 ~ 12	432	285-1676-ND	1377.01	1239.42	ZUP36-12/U
0 ~ 36	0 ~ 24	864	285-1677-ND	1949.22	1754.85	ZUP36-24/U
0 ~ 60	0 ~ 7	420	285-1681-ND	1377.01	1239.42	ZUP60-7/U
0 ~ 60	0 ~ 14	840	285-1679-ND	1949.22	1754.85	ZUP60-14/U
0 ~ 80	0 ~ 2.5	200	285-1685-ND	1043.96	939.12	ZUP80-2.5/U
0 ~ 80	0 ~ 5	400	285-1686-ND	1377.01	1239.42	ZUP80-5/U
0 ~ 120	0 ~ 1.8	216	285-1671-ND	1043.95	939.12	ZUP120-1.8/U
0 ~ 120	0 ~ 3.6	432	285-1672-ND	1377.02	1239.43	ZUP120-3.6/U
RS232 Communications Cable DB-9			285-1666-ND	37.13	34.00	ZUP/NC401
RS485 Communications Cable DB-9			285-1667-ND	37.13	34.00	ZUP/NC402

Front End Switching

Features:

TH Series: • 1U high • Up to 10,000W in 19" rack • Hot swap capable • High efficiency

TL Series: • 2U high • Up to 12,500W in 19" rack • Hot swap capable • >90% efficiency • Full power at 65°C ambient

FPS1000 Series: • 1U high • Up to 3000W (3 units) in 19" rack • Hot swap capable (O-Ring diodes built in) • Low cost • PoE option

RFE Series: • 1U high • Internal O-Ring diodes • Current Share

Benefits: • Suitable for N+1 redundancy • Can be paralleled for higher power

Note: For safety and EMI certifications, please see data sheets.

Fig. 1 – TH Series

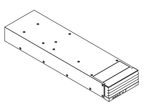

Fig. 2 – TL Series

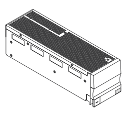

Fig. 3 – FPS1000 Series

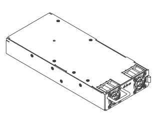

Fig. 4 – RFE Series *NEW!*

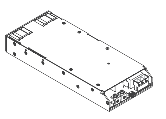

Fig.	Output Voltage (V)	Output Current (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
1	12	100	1200	285-1639-ND§	915.00	865.00	TH120012
	24	50	1250	285-1640-ND	860.00	810.01	TH120024
	48	25	1250	285-1641-ND	840.00	790.00	TH120048
	48	50	2500	285-1849-ND§	1350.00	1300.01	TH250048
2	24	40	1000	285-1645-ND	800.00	760.00	TL100024
	48	20	1000	285-1646-ND	800.00	760.00	TL100048
3	24	40	960	285-1237-ND	600.00	525.00	FPS100024
	32	31	992	285-1238-ND	600.00	525.00	FPS100032
	48	21	1008	285-1239-ND	600.00	525.00	FPS100048
4	24	40	960	285-1937-ND ***NEW!***	484.00	459.80	RFE1000-24-Y
	32	31	992	285-1938-ND ***NEW!***	484.00	459.80	RFE1000-32-Y
	48	21	1008	285-1939-ND ***NEW!***	484.00	459.80	RFE1000-48-Y
19" Rack for THRBP 200A				285-1643-ND	660.00	630.00	THR4
19" Rack for THRBP 400A				285-1850-ND	660.00	630.00	THR400
Blanking Panel				285-1644-ND	140.00	132.00	THRBP
19" Rack for TLRBP				285-1647-ND	490.00	465.01	TLR5
3 Slot Rack for FPS1000				285-1240-ND	640.00	560.01	FPSS1U

§ Use rack model THR400

(Continued)

AC/DC PCB Mount

Features: KM Series: • Small size and lightweight • PC board mountable • Wide Range Input • Medical Safety Certifications (4kVAC Input-Output) • Class II (No ground needed) **KW Series:** • Small size and lightweight • PC board mountable • -10°C ~ 70°C continuous operation • 85 ~ 265VAC wide range input • Convection cooled **PFE500/700/1000 Series:** • Low profile, small size • 100°C baseplate temperature • High power density • High efficiency
Note: For safety and EMI certifications, please see data sheets.

Fig. 1 – KM Series

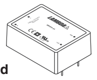

Medical Approved

Fig. 2 – KW Series

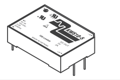

Fig. 3 – PFE500/700/1000 Series

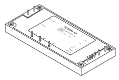

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
Single Output — Medical Approved							
1	3.3	3	9.9	285-1782-ND	49.62	37.00	KMS15-3P3
	3.3	8	26.4	285-1783-ND	74.62	55.00	KMS40-3P3
	5	3	15	285-1765-ND	49.34	43.54	KMS15-5
	5	8	40	285-1767-ND	74.62	55.00	KMS40-5
	12	1.25	15	285-1763-ND	49.62	37.00	KMS15-12
	12	3.33	40	285-1757-ND	74.62	55.00	KMS40-12
	15	2.67	40	285-1766-ND	74.62	55.00	KMS40-15
	15	1	15	285-1764-ND	49.62	37.00	KMS15-15
	24	0.62	15	285-1756-ND	49.62	37.00	KMS15-24
	24	1.67	40	285-1758-ND	74.62	55.00	KMS40-24
Dual Output — Medical Approved							
1	±5	1.5	15	285-1779-ND	53.85	40.00	KMD15-55
	±5	4	40	285-1774-ND	80.00	59.00	KMD40-55
	±12	0.62	15	285-1759-ND	53.85	40.00	KMD15-1212
	±12	1.66	40	285-1761-ND	80.00	59.00	KMD40-1212
	±15	0.50	15	285-1760-ND	53.85	40.00	KMD15-1515
	±15	1.33	40	285-1762-ND	80.00	59.00	KMD40-1515
	5/12	5/1.25	40	285-1780-ND	80.00	59.00	KMD40-512
	5/24	5/0.62	40	285-1781-ND	80.00	59.00	KMD40-524
Triple Output — Medical Approved							
1	5/±12	2/0.20	15	285-1775-ND	70.00	51.50	KMT15-51212
	5/±12	5/0.60	40	285-1777-ND	95.00	70.00	KMT40-51212
	5/±15	2/0.15	15	285-1776-ND	70.00	51.50	KMT15-51515
	5/±15	5/0.50	40	285-1778-ND	95.00	70.00	KMT40-51515
Single Output							
2	5	1	5	285-1436-ND	51.00	47.00	KWS5-5
	5	2	10	285-1430-ND	65.00	59.00	KWS10-5

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
2	5	3	15	285-1433-ND	76.00	70.00	KWS15-5
	12	0.45	5	285-1434-ND	51.00	47.00	KWS5-12
	12	0.9	10	285-1428-ND	65.00	59.00	KWS10-12
	12	1.3	15	285-1431-ND	76.00	70.00	KWS15-12
	15	0.35	5	285-1435-ND	51.00	47.00	KWS5-15
	15	0.7	10	285-1429-ND	65.00	59.00	KWS10-15
	15	1	15	285-1432-ND	76.00	70.00	KWS15-15
3	12	42	504	285-1801-ND	354.00	295.00	PFE500F-12
	28	18	504	285-1802-ND	354.00	295.00	PFE500F-28
	48	10.5	504	285-1803-ND	354.00	295.00	PFE500F48
	12	33	396	285-1493-ND	273.00	245.00	PFE500S-12
	12	33	396	285-1898-ND	273.00	245.00	PFE500S-12/T
	28	18	504	285-1494-ND	273.00	245.00	PFE500S-28
	28	18	504	285-1899-ND	273.00	245.00	PFE500S-28/T
	48	10.5	504	285-1495-ND	273.00	245.00	PFE500S-48
	48	10.5	504	285-1900-ND	273.00	245.00	PFE500S-48/T
	51	14	714	285-1496-ND	298.00	265.01	PFE700S-48
	12	60	720	285-1851-ND	628.27	597.07	PFE1000F-12
	28	36	1008	285-1852-ND	628.27	597.07	PFE1000F-28
	48	21	1008	285-1853-ND	628.27	597.07	PFE1000F-48
Thermal Fuse Resistor for PFE Module				285-1901-ND	1.08	.97	DFP10112
Dual Output							
2	±12	±0.22	5	285-1426-ND	58.00	53.00	KWD5-1212
	±12	±0.45	10	285-1422-ND	73.00	67.00	KWD10-1212
	±12	±0.65	15	285-1424-ND	86.00	79.00	KWD15-1212
	±15	±0.18	5	285-1427-ND	58.00	53.00	KWD5-1515
	±15	±0.36	10	285-1423-ND	73.00	67.00	KWD10-1515
	±15	±0.52	15	285-1425-ND	86.00	79.00	KWD15-1515

DC-DC Converters

Features: CC Series: • Ultra Compact, 1.5W ~ 30W Single and Dual DC-DC Converters • Compact Footprint/ Low Profile • Through Hole or SMT • 5V, 12V, 24V and 48V Inputs • 3.3V ~ 30V Single, ±12V ~ 15V Dual Outputs • Output Voltage Adjustment • Input - Output Isolation **PX Series:** • Single, Dual and Triple Output 10W ~ 60W DC-DC Converters • Industry Standard Footprints • Six Sided Shielding • 12V, 24V and 48V Inputs **PAH Series:** • Half Brick Industry Standard DC-DC Converters • Industry Standard Footprint and Pinouts • High Output Current 3.3V output • Zero Pre-Load Current • Over-voltage Protection • Remote On/Off **PAF Series:** • 24V ~ 48V Input Full Brick DC-DC Converters • 12V Output for Driving Non-Isolated Converter • Up to 80A Output Current • Full Power at 100°C Baseplate • Opto Isolated Remote On/Off • Wide Adjustable Output Range **PF Series:** • Rectifier and Power Factor Correction Module • Provides High Voltage DC to Lambda's PH Power Modules • Parallel Operation On • 0.5" Profile **iAD Series:** • High Operating Efficiency (up to 94%) • Reduced System Heating • Constant Switching Frequency • Easier System Filtering • Starts with Pre-Biased Output **iBD Series:** • High Operating Efficiency (up to 92%) • Reduced System Heating • Constant 240kHz Switching Frequency • Easier System Filtering • Starts with Pre-Biased Output
Note: *For safety and EMI certifications please see series data sheets*

Fig. 1 — CC Series

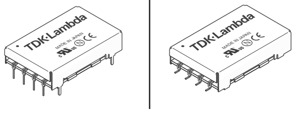

A — DIP **B — SMD**

Fig. 2 — PX Series

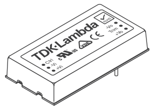

Fig. 3 — PAH Series

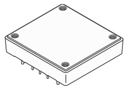

Fig. 4 — PF/PAF Series

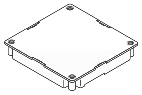

Fig. 5 — iAD Series

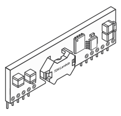

Fig. 6 — iBD Series

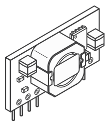

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
CC1R5 Series — Single Output								
1A	4.5 ~ 9	3.3	.400	1.5	445-2444-ND	9.84	9.38	CC1R5-0503SF-E
	4.5 ~ 9	5	.300	1.5	445-2446-ND	9.84	9.38	CC1R5-0505SF-E
	4.5 ~ 9	12 ~ 15	.125	1.5	445-2448-ND	9.84	9.38	CC1R5-0512SF-E
	9 ~ 18	3.3	.400	1.5	445-2450-ND	9.84	9.38	CC1R5-1203SF-E
	9 ~ 18	5	.300	1.5	445-2452-ND	9.84	9.38	CC1R5-1205SF-E
	9 ~ 18	12 ~ 15	.125	1.5	445-2455-ND	9.84	9.38	CC1R5-1212SF-E
	18 ~ 36	3.3	.400	1.5	445-2456-ND	9.84	9.38	CC1R5-2403SF-E
	18 ~ 36	5	.300	1.5	445-2457-ND	9.84	9.38	CC1R5-2405SF-E
	18 ~ 36	12 ~ 15	.125	1.5	445-2459-ND	9.84	9.38	CC1R5-2412SF-E
	36 ~ 76	3.3	.400	1.5	445-3264-ND	9.84	9.38	CC1R5-4803SF-E
	36 ~ 76	5	.300	1.5	445-3265-ND	9.84	9.38	CC1R5-4805SF-E
	36 ~ 76	12 ~ 15	.125	1.5	445-3266-ND	9.84	9.38	CC1R5-4812SF-E
1B	4.5 ~ 9	3.3	.400	1.5	445-2445-ND	9.85	9.40	CC1R5-0503SR-E
	4.5 ~ 9	5	.300	1.5	445-3267-ND	9.85	9.40	CC1R5-0505SR-E
	4.5 ~ 9	12 ~ 15	.125	1.5	445-2449-ND	9.85	9.40	CC1R5-0512SR-E
	9 ~ 18	3.3	.400	1.5	445-2451-ND	9.85	9.40	CC1R5-1203SR-E
	9 ~ 18	5	.300	1.5	445-2453-ND	9.85	9.40	CC1R5-1205SR-E
	9 ~ 18	12 ~ 15	.125	1.5	445-3268-ND	9.85	9.40	CC1R5-1212SR-E
	18 ~ 36	3.3	.400	1.5	445-3269-ND	9.85	9.40	CC1R5-2403SR-E
	18 ~ 36	5	.300	1.5	445-3270-ND	9.85	9.40	CC1R5-2405SR-E
	18 ~ 36	12 ~ 15	.125	1.5	445-3271-ND	9.85	9.40	CC1R5-2412SR-E
	36 ~ 76	3.3	.400	1.5	445-3272-ND	9.85	9.40	CC1R5-4803SR-E
	36 ~ 76	5	.300	1.5	445-3273-ND	9.85	9.40	CC1R5-4805SR-E
	36 ~ 76	12 ~ 15	.125	1.5	445-3274-ND	9.85	9.40	CC1R5-4812SR-E
CC1R5 Series — Dual Output								
1A	4.5 ~ 9	±12 ~ 15	.060	1.5	445-2447-ND	9.85	9.40	CC1R5-0512DF-E
	9 ~ 18	±12 ~ 15	.060	1.5	445-2454-ND	9.85	9.40	CC1R5-1212DF-E
	18 ~ 36	±12 ~ 15	.060	1.5	445-2458-ND	9.85	9.40	CC1R5-2412DF-E
	36 ~ 76	±12 ~ 15	.060	1.5	445-3312-ND	9.85	9.40	CC1R5-4812DF-E
1B	4.5 ~ 9	±12 ~ 15	.060	1.5	445-3313-ND	9.85	9.39	CC1R5-0512DR-E
	9 ~ 18	±12 ~ 15	.060	1.5	445-3314-ND	9.85	9.39	CC1R5-1212DR-E
	18 ~ 36	±12 ~ 15	.060	1.5	445-3315-ND	9.85	9.39	CC1R5-2412DR-E
	36 ~ 76	±12 ~ 15	.060	1.5	445-3316-ND	9.85	9.39	CC1R5-4812DR-E

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	TDK-Lambda Part No.
CC3 Series — Single Output								
1A	4.5 ~ 9	3.3	.800	3.0	445-2462-ND	11.37	10.97	CC3-0503SF-E
	4.5 ~ 9	5	.600	3.0	445-2464-ND	11.37	10.97	CC3-0505SF-E
	4.5 ~ 9	12 ~ 15	.250	3.0	445-2466-ND	11.37	10.97	CC3-0512SF-E
	9 ~ 18	3.3	.800	3.0	445-2468-ND	11.37	10.97	CC3-1203SF-E
	9 ~ 18	5	.600	3.0	445-2470-ND	11.37	10.97	CC3-1205SF-E
	9 ~ 18	12 ~ 15	.250	3.0	445-2473-ND	11.37	10.97	CC3-1212SF-E
	18 ~ 36	3.3	.800	3.0	445-2474-ND	11.37	10.97	CC3-2403SF-E
	18 ~ 36	5	.600	3.0	445-2475-ND	11.37	10.97	CC3-2405SF-E
	18 ~ 36	12 ~ 15	.250	3.0	445-2477-ND	11.37	10.97	CC3-2412SF-E
	36 ~ 76	3.3	.800	3.0	445-3275-ND	11.37	10.97	CC3-4803SF-E
	36 ~ 76	5	.600	3.0	445-3276-ND	11.37	10.97	CC3-4805SF-E
	36 ~ 76	12 ~ 15	.250	3.0	445-3277-ND	11.37	10.97	CC3-4812SF-E
1B	4.5 ~ 9	3.3	.800	3.0	445-2463-ND	11.37	10.96	CC3-0503SR-E
	4.5 ~ 9	5	.600	3.0	445-3278-ND	11.37	10.96	CC3-0505SR-E
	4.5 ~ 9	12 ~ 15	.250	3.0	445-2467-ND	11.37	10.96	CC3-0512SR-E
	9 ~ 18	3.3	.800	3.0	445-2469-ND	11.37	10.96	CC3-1203SR-E
	9 ~ 18	5	.600	3.0	445-2471-ND	11.37	10.96	CC3-1205SR-E
	9 ~ 18	12 ~ 15	.250	3.0	445-3279-ND	11.37	10.96	CC3-1212SR-E
	18 ~ 36	3.3	.800	3.0	445-3280-ND	11.37	10.96	CC3-2403SR-E
	18 ~ 36	5	.600	3.0	445-3281-ND	11.37	10.96	CC3-2405SR-E
	18 ~ 36	12 ~ 15	.250	3.0	445-3282-ND	11.37	10.96	CC3-2412SR-E
	36 ~ 76	3.3	.800	3.0	445-3283-ND	11.37	10.96	CC3-4803SR-E
	36 ~ 76	5	.600	3.0	445-3284-ND	11.37	10.96	CC3-4805SR-E
	36 ~ 76	12 ~ 15	.250	3.0	445-3285-ND	11.37	10.96	CC3-4812SR-E
CC3 Series — Dual Output								
1A	4.5 ~ 9	±12 ~ 15	.125	3.0	445-2465-ND	11.39	10.98	CC3-0512DF-E
	9 ~ 18	±12 ~ 15	.125	3.0	445-2472-ND	11.39	10.98	CC3-1212DF-E
	18 ~ 36	±12 ~ 15	.125	3.0	445-2476-ND	11.39	10.98	CC3-2412DF-E
1B	4.5 ~ 9	±12 ~ 15	.125	3.0	445-3318-ND	11.39	10.98	CC3-0512DR-E
	9 ~ 18	±12 ~ 15	.125	3.0	445-3319-ND	11.39	10.98	CC3-1212DR-E
	18 ~ 36	±12 ~ 15	.125	3.0	445-3320-ND	11.39	10.98	CC3-2412DR-E
	36 ~ 76	±12 ~ 15	.125	3.0	445-3321-ND	11.39	10.98	CC3-4812DR-E

† Positive Logic ‡ 100/200VAC

(Continued)

Power Supplies

DC-DC Converters *(Cont.)*

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
						1	10	
CC6 Series — Single Output								
1A	4.5 ~ 9	3.3	1.2	6.0	445-2478-ND	16.20	15.48	CC6-0503SF-E
	4.5 ~ 9	5	1.0	5.0	445-2480-ND	16.20	15.48	CC6-0505SF-E
	4.5 ~ 9	12 ~ 15	.500	6.0	445-2482-ND	16.20	15.48	CC6-0512SF-E
	9 ~ 18	3.3	1.2	6.0	445-2484-ND	16.20	15.48	CC6-1203SF-E
	9 ~ 18	5	1.2	6.0	445-2486-ND	16.20	15.48	CC6-1205SF-E
	9 ~ 18	12 ~ 15	.500	6.0	445-2489-ND	16.20	15.48	CC6-1212SF-E
	18 ~ 36	3.3	1.2	6.0	445-2490-ND	16.20	15.48	CC6-2403SF-E
	18 ~ 36	5	1.2	6.0	445-2491-ND	16.20	15.48	CC6-2405SF-E
	18 ~ 36	12 ~ 15	.500	6.0	445-2493-ND	16.20	15.48	CC6-2412SF-E
	36 ~ 76	5	1.2	6.0	445-3287-ND	16.20	15.48	CC6-4805SF-E
	36 ~ 76	12 ~ 15	.500	6.0	445-3288-ND	16.20	15.48	CC6-4812SF-E
1B	4.5 ~ 9	3.3	1.2	6.0	445-2479-ND	16.19	15.48	CC6-0503SR-E
	4.5 ~ 9	5	1.0	5.0	445-3289-ND	16.19	15.48	CC6-0505SR-E
	4.5 ~ 9	12 ~ 15	.500	6.0	445-2483-ND	16.19	15.48	CC6-0512SR-E
	9 ~ 18	3.3	1.2	6.0	445-2485-ND	16.19	15.48	CC6-1203SR-E
	9 ~ 18	5	1.2	6.0	445-2487-ND	16.19	15.48	CC6-1205SR-E
	9 ~ 18	12 ~ 15	.500	6.0	445-3290-ND	16.19	15.48	CC6-1212SR-E
	18 ~ 36	3.3	1.2	6.0	445-3291-ND	16.19	15.48	CC6-2403SR-E
	18 ~ 36	5	1.2	6.0	445-3292-ND	16.19	15.48	CC6-2405SR-E
	18 ~ 36	12 ~ 15	.500	6.0	445-3293-ND	16.19	15.48	CC6-2412SR-E
	36 ~ 76	5	1.2	6.0	445-3295-ND	16.19	15.48	CC6-4805SR-E
	36 ~ 76	12 ~ 15	.500	6.0	445-3296-ND	16.19	15.48	CC6-4812SR-E
CC6 Series — Dual Output								
1A	4.5 ~ 9	±12 ~ 15	.250	6.0	445-2481-ND	16.19	15.48	CC6-0512DF-E
	9 ~ 18	±12 ~ 15	.250	6.0	445-2488-ND	16.19	15.48	CC6-1212DF-E
1A	18 ~ 36	±12 ~ 15	.250	6.0	445-2492-ND	16.19	15.48	CC6-2412DF-E
	36 ~ 76	±12 ~ 15	.250	6.0	445-3322-ND	16.19	15.48	CC6-4812DF-E
1B	4.5 ~ 9	±12 ~ 15	.250	6.0	445-3323-ND	16.21	15.50	CC6-0512DR-E
	9 ~ 18	±12 ~ 15	.250	6.0	445-3324-ND	16.21	15.50	CC6-1212DR-E
	18 ~ 36	±12 ~ 15	.250	6.0	445-3325-ND	16.21	15.50	CC6-2412DR-E
	36 ~ 76	±12 ~ 15	.250	6.0	445-3326-ND	16.21	15.50	CC6-4812DR-E
CC10 Series — Single Output								
1A	4.5 ~ 9	3.3	2.5	10	445-2430-ND	26.66	25.84	CC10-0503SF-E
	4.5 ~ 9	5	2.0	10	445-2431-ND	26.66	25.84	CC10-0505SF-E
	4.5 ~ 9	12 ~ 15	.800	10	445-2433-ND	26.66	25.84	CC10-0512SF-E
	9 ~ 18	3.3	2.5	10	445-2434-ND	26.66	25.84	CC10-1203SF-E
	9 ~ 18	5	2.0	10	445-2435-ND	26.66	25.84	CC10-1205SF-E
	9 ~ 18	12 ~ 15	1.0	10	445-2437-ND	26.66	25.84	CC10-1212SF-E
	18 ~ 36	3.3	2.5	10	445-2438-ND	26.66	25.84	CC10-2403SF-E
	18 ~ 36	5	2.0	10	445-2439-ND	26.66	25.84	CC10-2405SF-E
	18 ~ 36	12 ~ 15	1.0	10	445-2441-ND	26.66	25.84	CC10-2412SF-E
	36 ~ 76	3.3	2.5	10	445-3297-ND	26.66	25.84	CC10-4803SF-E
	36 ~ 76	5	2.0	10	445-3298-ND	26.66	25.84	CC10-4805SF-E
	36 ~ 76	12 ~ 15	1.0	10	445-3299-ND	26.66	25.84	CC10-4812SF-E
1B	4.5 ~ 9	3.3	2.5	10	445-3300-ND	26.65	25.83	CC10-0503SR-E
	4.5 ~ 9	5	2.0	10	445-3301-ND	26.65	25.83	CC10-0505SR-E
	9 ~ 18	3.3	2.5	10	445-3303-ND	26.65	25.83	CC10-1203SR-E
	9 ~ 18	5	2.0	10	445-3304-ND	26.65	25.83	CC10-1205SR-E
	9 ~ 18	12 ~ 15	1.0	10	445-3305-ND	26.65	25.83	CC10-1212SR-E
	18 ~ 36	3.3	2.5	10	445-3306-ND	26.65	25.83	CC10-2403SR-E
	18 ~ 36	5	2.0	10	445-3307-ND	26.65	25.83	CC10-2405SR-E
	18 ~ 36	12 ~ 15	1.0	10	445-3308-ND	26.65	25.83	CC10-2412SR-E
	36 ~ 76	3.3	2.5	10	445-3309-ND	26.65	25.83	CC10-4803SR-E
	36 ~ 76	5	2.0	10	445-3310-ND	26.65	25.83	CC10-4805SR-E
	36 ~ 76	12 ~ 15	1.0	10	445-3311-ND	26.65	25.83	CC10-4812SR-E
CC10 Series — Dual Output								
1A	4.5 ~ 9	±12 ~ 15	.400	10	445-2432-ND	26.67	25.85	CC10-0512DF-E
	9 ~ 18	±12 ~ 15	.450	10	445-2436-ND	26.67	25.85	CC10-1212DF-E
	18 ~ 36	±12 ~ 15	.450	10	445-2440-ND	26.67	25.85	CC10-2412DF-E
	36 ~ 76	±12 ~ 15	.450	10	445-3327-ND	26.67	25.85	CC10-4812DF-E
1B	4.5 ~ 9	±12 ~ 15	.400	10	445-3328-ND	26.64	25.83	CC10-0512DR-E
	9 ~ 18	±12 ~ 15	.450	10	445-3329-ND	26.64	25.83	CC10-1212DR-E
	18 ~ 36	±12 ~ 15	.450	10	445-3330-ND	26.64	25.83	CC10-2412DR-E
	36 ~ 76	±12 ~ 15	.450	10	445-3331-ND	26.64	25.83	CC10-4812DR-E
CC15 Series								
1A	18 ~ 36	3.3	4.5	15	445-2442-ND	36.39	34.85	CC15-2403SF-E
	18 ~ 36	5	3.0	15	445-2443-ND	36.39	34.85	CC15-2405SF-E
CC25 Series								
1A	18 ~ 36	3.3	7.5	25	445-2460-ND	69.65	67.61	CC25-2403SF-E
	18 ~ 36	5	5.0	25	445-2461-ND	69.65	67.61	CC25-2405SF-E
NEW! CC-P-E Series NEW!								
1A	24	3.3	4.5	15.0	285-1950-ND	57.99	55.09	CC15-2403SFP-E
	48	3.3	4.5	15.0	285-1951-ND	57.99	55.09	CC15-4803SFP-E
	24	5	3.0	15.0	285-1952-ND	57.99	55.09	CC15-2405SFP-E
	48	5	3.0	15.0	285-1953-ND	57.99	55.09	CC15-4805SFP-E
	24	12	1.25	15.0	285-1954-ND	57.99	55.09	CC15-2412SFP-E
	48	12	1.25	15.0	285-1955-ND	57.99	55.09	CC15-4812SFP-E
	24	15	1.0	15.0	285-1956-ND	57.99	55.09	CC15-2415SFP-E
	48	15	1.0	15.0	285-1957-ND	57.99	55.09	CC15-4815SFP-E
	24	3.3	9.0	30.0	285-1958-ND	80.00	76.00	CC30-2403SFP-E
	48	3.3	9.0	30.0	285-1959-ND	80.00	76.00	CC30-4803SFP-E
	24	5	6.0	30.0	285-1960-ND	80.00	76.00	CC30-2405SFP-E
	48	5	6.0	30.0	285-1961-ND	80.00	76.00	CC30-4805SFP-E
	24	12	2.5	30.0	285-1962-ND	80.00	76.00	CC30-2412SFP-E
1A	48	12	2.5	30.0	285-1963-ND	80.00	76.00	CC30-4812SFP-E
	24	15	2.0	30.0	285-1964-ND	80.00	76.00	CC30-2415SFP-E
	48	15	2.0	30.0	285-1965-ND	80.00	76.00	CC30-4815SFP-E
NEW! PXB Series — Single Output NEW!								
2	9 ~ 36	5	3	15	285-1905-ND	51.35	48.78	PXB15-24WS05/NT
	9 ~ 36	12	1.3	15.6	285-1906-ND	51.35	48.78	PXB15-24WS12/NT
	9 ~ 36	15	1	15	285-1907-ND	51.35	48.78	PXB15-24WS15/NT
	18 ~ 75	5	3	15	285-1911-ND	51.35	48.78	PXB15-48WS05/NT
	18 ~ 75	12	1.3	15.6	285-1912-ND	51.35	48.78	PXB15-48WS12/NT
	18 ~ 75	15	1	15	285-1913-ND	51.35	48.78	PXB15-48WS15/NT
NEW! PXB Series — Dual Output NEW!								
2	9 ~ 36	±5	1.5	15	285-1902-ND	61.00	57.95	PXB15-24WD05/NT
	9 ~ 36	±12	.625	15	285-1903-ND	61.00	57.95	PXB15-24WD12/NT
	9 ~ 36	±15	.500	15	285-1904-ND	61.00	57.95	PXB15-24WD15/NT
	18 ~ 75	±5	1.5	15	285-1908-ND	61.00	57.95	PXB15-48WD05/NT
	18 ~ 75	±12	.625	15	285-1909-ND	61.00	57.95	PXB15-48WD12/NT
	18 ~ 75	±15	.500	15	285-1910-ND	61.00	57.95	PXB15-48WD15/NT
PXD Series — Single Output								
2	9 ~ 18	5	4.0	20	285-1511-ND	64.00	61.00	PXD2012S05
	9 ~ 18	12	1.67	20	285-1512-ND	64.00	61.00	PXD2012S12
	9 ~ 18	15	1.33	20	285-1513-ND	64.00	61.00	PXD2012S15
	9 ~ 36	5	2.0	10	285-1499-ND	55.00	52.00	PXD1024WS05
	9 ~ 36	5	2.0	10	285-1500-ND†	57.00	54.00	PXD1024WS05P
	9 ~ 36	12	0.83	10	285-1501-ND	55.00	52.00	PXD1024WS12
	9 ~ 36	15	0.67	10	285-1502-ND	55.00	52.00	PXD1024WS15
	18 ~ 36	5	4.0	20	285-1516-ND	64.00	61.00	PXD2024S05
	18 ~ 36	12	1.67	20	285-1517-ND	64.00	61.00	PXD2024S12
	18 ~ 36	15	1.33	20	285-1518-ND	64.00	61.00	PXD2024S15
	18 ~ 75	5	2.0	10	285-1506-ND	55.00	52.00	PXD1048WS05
	18 ~ 75	12	0.83	10	285-1507-ND	55.00	52.00	PXD1048WS12
	18 ~ 75	15	0.67	10	285-1508-ND	55.00	52.00	PXD1048WS15
	36 ~ 75	5	4.0	20	285-1521-ND	64.00	61.00	PXD2048S05
	36 ~ 75	12	1.67	20	285-1522-ND	64.00	61.00	PXD2048S12
	36 ~ 75	15	1.33	20	285-1523-ND	64.00	61.00	PXD2048S15
PXD Series — Dual Output								
2	9 ~ 18	±12	±0.833	20	285-1509-ND	68.00	65.00	PXD2012D12
	9 ~ 18	±15	±0.667	20	285-1510-ND	68.00	65.00	PXD2012D15
	9 ~ 36	±12	±0.416	10	285-1497-ND	58.00	55.00	PXD1024WD12
	9 ~ 36	±15	±0.333	10	285-1498-ND	58.00	55.00	PXD1024WD15
	18 ~ 36	±12	±0.833	20	285-1514-ND	68.00	65.00	PXD2024D12
	18 ~ 36	±15	±0.667	20	285-1515-ND	68.00	65.00	PXD2024D15
	18 ~ 75	±12	±0.416	10	285-1504-ND	58.00	55.00	PXD1048WD12
	18 ~ 75	±15	±0.333	10	285-1505-ND	58.00	55.00	PXD1048WD15
	36 ~ 75	±12	±0.833	20	285-1519-ND	68.00	65.00	PXD2048D12
	36 ~ 75	±15	±0.667	20	285-1520-ND	68.00	65.00	PXD2048D15
NEW! PXD 30W Series — Single Output NEW!								
2	9 ~ 36	5	6.0	30	285-1943-ND	96.00	91.20	PXD3024WS05
	9 ~ 36	12	2.5	30	285-1944-ND	96.00	91.20	PXD3024WS12
	9 ~ 36	15	2.0	30	285-1945-ND	96.00	91.20	PXD3024WS15
	9 ~ 36	3.3	7.5	24.75	285-1946-ND	96.00	91.20	PXD3024WS3P3
NEW! PXD 30W Series — Dual Output NEW!								
2	9 ~ 36	±5	±3.0	30	285-1940-ND	103.00	97.85	PXD3024WD05
	9 ~ 36	±12	±1.25	30	285-1941-ND	103.00	97.85	PXD3024WD12
	9 ~ 36	±15	±1.0	30	285-1942-ND	103.00	97.85	PXD3024WD15
	18 ~ 75	±5	±3.0	30	285-1947-ND	103.00	97.85	PXD3048WD05
	18 ~ 75	±12	±1.25	30	285-1948-ND	103.00	97.85	PXD3048WD12
	18 ~ 75	±15	±1.0	30	285-1949-ND	103.00	97.85	PXD3048WD15
PXE Series — Single Output								
2	9 ~ 18	3.3	6.0	18	285-1541-ND	85.00	80.00	PXE3012S3P3
	9 ~ 18	5	6.0	30	285-1538-ND	85.00	80.00	PXE3012S05
	9 ~ 18	12	2.5	30	285-1539-ND	85.00	80.00	PXE3012S12
	9 ~ 18	15	2.0	30	285-1540-ND	85.00	80.00	PXE3012S15
	9 ~ 36	5	4.0	20	285-1527-ND	67.00	63.00	PXE2024WS05
	9 ~ 36	12	1.67	20	285-1528-ND	67.00	63.00	PXE2024WS12
	9 ~ 36	15	1.33	20	285-1529-ND	67.00	63.00	PXE2024WS15
	10 ~ 40	12	2.5	30	285-1547-ND	97.00	93.00	PXE3024WS12
	18 ~ 36	5	6.0	30	285-1544-ND	85.00	80.00	PXE3024S05
	18 ~ 36	12	2.5	30	285-1545-ND	85.00	80.00	PXE3024S12
	18 ~ 36	15	2.0	30	285-1546-ND	85.00	80.00	PXE3024S15
	18 ~ 75	5	4.0	20	285-1533-ND	67.00	63.00	PXE2048WS05
	18 ~ 75	12	1.67	20	285-1534-ND	67.00	63.00	PXE2048WS12
	18 ~ 75	15	1.33	20	285-1535-ND	67.00	63.00	PXE2048WS15
	36 ~ 75	5	6.0	30	285-1550-ND	85.00	80.00	PXE3048S05
	36 ~ 75	12	2.5	30	285-1551-ND	85.00	80.00	PXE3048S12
	36 ~ 75	15	2.0	30	285-1552-ND	85.00	80.00	PXE3048S15
PXE Series — Dual Output								
2	9 ~ 18	±12	±1.25	30	285-1536-ND	93.00	88.00	PXE3012D12
	9 ~ 18	±15	±1.0	30	285-1537-ND	93.00	88.00	PXE3012D15
	9 ~ 36	±5	±2.0	20	285-1524-ND	76.00	72.00	PXE2024WD05
	9 ~ 36	±12	±0.833	20	285-1525-ND	76.00	72.00	PXE2024WD12
	9 ~ 36	±15	±0.666	20	285-1526-ND	76.00	72.00	PXE2024WD15
	18 ~ 36	±12	±1.25	30	285-1542-ND	93.00	88.00	PXE3024D12
	18 ~ 36	±15	±1.0	30	285-1543-ND	93.00	88.00	PXE3024D15
	18 ~ 75	±5	±2.0	20	285-1530-ND	76.00	72.00	PXE2048WD05

† Positive Logic ‡ 100/200VAC

(Continued)

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
						1	10	
2	18 ~ 75	±15	±0.666	20	285-1532-ND	76.00	72.00	PXE2048WD15
	36 ~ 75	±12	±1.25	30	285-1548-ND	93.00	88.00	PXE3048D12
	36 ~ 75	±15	±1.0	30	285-1549-ND	93.00	88.00	PXE3048D15
PXF Series — Single Output								
2	9 ~ 18	15	2.666	40	285-1557-ND	96.00	91.00	PXF4012S15
	9 ~ 36	5	8	40	285-1861-ND	74.25	—	PXF4024WS05
	9 ~ 36	12	3.333	40	285-1863-ND	74.25	—	PXF4024WS12
	9 ~ 36	15	2.666	40	285-1865-ND	74.25	—	PXF4024WS15
	18 ~ 36	3.3	8	40	285-1564-ND	96.00	91.00	PXF4024S3P3
	18 ~ 36	15	2.666	40	285-1563-ND	96.00	91.00	PXF4024S15
	18 ~ 75	5	8	40	285-1862-ND	74.25	—	PXF4048WS05
	18 ~ 75	12	3.333	40	285-1864-ND	74.25	—	PXF4048WS12
	18 ~ 75	15	2.666	40	285-1866-ND	74.25	—	PXF4048WS15
	18 ~ 36	5	12	60	285-1987-ND ***NEW!***	94.77	91.13	PXF60-24S05
	18 ~ 36	3.3	14	60	285-1988-ND ***NEW!***	94.77	91.13	PXF60-24S3P3
	18 ~ 36	12	5	60	285-1989-ND ***NEW!***	94.77	91.13	PXF60-24S12
	18 ~ 36	15	4	60	285-1990-ND ***NEW!***	94.77	91.13	PXF60-24S15
	36 ~ 75	5	12	60	285-1991-ND ***NEW!***	94.77	91.13	PXF60-48S05
	36 ~ 75	3.3	14	60	285-1992-ND ***NEW!***	94.77	91.13	PXF60-48S3P3
	36 ~ 75	12	5	60	285-1993-ND ***NEW!***	94.77	91.13	PXF60-48S12
	36 ~ 75	15	4	60	285-1994-ND ***NEW!***	94.77	91.13	PXF60-48S15
	36 ~ 75	5	8	40	285-1568-ND	96.00	91.00	PXF4048S05
	36 ~ 75	15	2.666	40	285-1570-ND	96.00	91.00	PXF4048S15
PXF Series — Dual Output								
2	9 ~ 36	±12	±1.667	40	285-1867-ND	78.75	—	PXF4024WD12
	9 ~ 36	±15	±1.333	40	285-1869-ND	78.75	—	PXF4024WD15
	18 ~ 75	±12	±1.667	40	285-1868-ND	78.75	—	PXF4048WD12
	18 ~ 75	±15	±1.333	40	285-1870-ND	78.75	—	PXF4048WD15
2	36 ~ 75	±15	±1.4	40	285-1567-ND	96.00	91.00	PXF4048D15
PXF Series — Triple Output								
2	9 ~ 18	5, ±12	6, ±0.4	40	285-1558-ND	116.00	110.00	PXF4012T0512
	18 ~ 36	5, ±12	6, ±0.4	40	285-1565-ND	116.00	110.00	PXF4024T0512
	36 ~ 75	5, ±12	6, ±0.4	40	285-1571-ND	116.00	110.00	PXF4048T0512
PAH350 Series								
3	18 ~ 36	28	12.5	350	285-1487-ND	134.00	125.00	PAH350S2428
	36 ~ 76	12	29.2	350	285-1488-ND	134.00	125.00	PAH350S4812
	36 ~ 76	28	12.5	350	285-1489-ND	134.00	125.00	PAH350S4828
PAH450 Series								
3	36 ~ 76	28	16	448	285-1784-ND	141.00	132.00	PAH450S4828
PF Series								
4	85~265VAC	360	—	504/756‡	285-1492-ND	154.10	140.10	PF500A-360
	85~265VAC	360	—	1008/1512‡	285-1491-ND	216.80	195.40	PF1000A-360
PAF500F Series								
4	18 ~ 36	28	18	504	285-1481-ND	240.00	225.01	PAF500F24-28
PAF600F Series								
4	19 ~ 36	28	21.5	602	285-1482-ND	270.00	250.00	PAF600F24-28
PAF-F280 Series								
4	200 ~ 400	12	50	600	285-1483-ND	215.00	200.00	PAF600F280-12/T
	200 ~ 400	24	25	600	285-1484-ND	215.00	200.00	PAF600F280-24/T
	200 ~ 400	28	21.5	602	285-1485-ND	215.00	200.00	PAF600F280-28/T
	200 ~ 400	48	12.5	600	285-1486-ND	215.00	200.00	PAF600F280-48/T
iAD Series — Adjustable Output								
5	6 ~ 14	0.8 ~ 5.5	16	80	285-1786-ND†	28.00	14.19	IAD12016A008V-000-R
	6 ~ 14	0.8 ~ 5.5	16	80	285-1787-ND	16.85	15.09	IAD12016A008V-001-R
iBD Series — Adjustable Output								
6	6 ~ 14	0.8 ~ 5.5	7	35	285-1883-ND	14.04	—	IBD12007A008V000R

† Positive Logic ‡ 100/200VAC

NEW! LED Drivers — ALD Series

LED drivers designed for LCD backlight applications in industrial and consumer applications. The range includes products for LED's arranged in 2, 3, and 4 string configurations.

Features:

- Built in circuit protector
- Over voltage protection function
- Alarm signal output function
- Combined dimming is available. (Analog dimming and PWM burst dimming)

Input Voltage (Vdc)	Output Current	Dimming (Vdc)		Digi-Key Part No.	Price Each		TDK-Lambda Part No.
		Dimming	PWM		1	10	
Dual Output							
10.8 ~ 13.2	140mA	2.5 ~ 0	2.5 ~ 0	285-1970-ND	33.85	32.16	ALD-214012PJ111
Triple Output							
10.8 ~ 13.2	100mA	†	0 ~ 2.5	285-1971-ND	40.99	38.95	ALD-310012PJ125
Quad Output							
10.8 ~ 13.2	140mA	2.5 ~ 0	2.5 ~ 0	285-1972-ND	55.01	52.26	ALD-414012PJ126

† Resistor dimming is recommended (Rbr) but analog amplitude dimming is also acceptable in the 0 to 4.0 volt range.

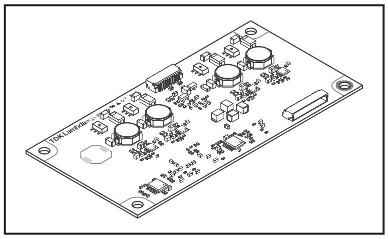

NEW! LED Drivers — LEDC Series

10W Programmable DC Input LED Driver

Features:
- 0mA - 450mA current programming range
- PWM or Logic programming / dimming
- Wide input range: 4.5VDC ~ 20VDC
- Non Isolated
- Wide temperature range: -40°C ~ 125°C

Input Voltage (V)	Output Current (A)	Output Voltage (V)	Max. Output Power (W)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
					1	10	
4.5 ~ 20	0.35 ~ 0.48	3 ~ 20	7 ~ 9.6	285-1980-ND	38.17	37.06	LEDC1012R48

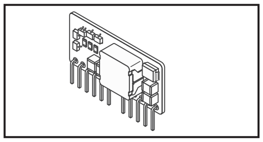

NEW! Power Supply — LD Series

Features: • Small size • 115VAC or 230VAC input • Constant current or constant voltage versions • Splashproof
Voltage Range: 90 ~ 264VAC
Applications: • LED Lighting • Damp Environments

Power (Watts)	Output Voltage (V)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
			1	10	
12.6	3 ~ 36	285-1926-ND	27.00	25.65	LDC12-36-R35
12.6	3 ~ 18	285-1927-ND	27.00	25.65	LDC12-18-R70
12	12	285-1928-ND	27.00	25.65	LDV12-12-1R0
12	15	285-1929-ND	27.00	25.65	LDV12-15-R80
12	24	285-1930-ND	27.00	25.65	LDV12-24-R50

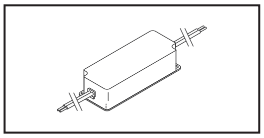

EMI Filters

Features:
MAW Series: • Shielded metal case • Attenuates high voltage pulses **MA Series:** • Easy connection and installation • Captive screws accepting ring tag terminals • Chassis or DIN rail mount • Low frequency attenuation (single stage) **MC Series:** • Low leakage current versions • Chassis or DIN rail mount • High pulse or noise attenuation versions • Easy connection and installation **MB Series:** • High attenuation wide band two stage filter • Screw terminals with cover • Low profile, metal case **PAN Series:** • Compact size • PCB mount • Suitable for use with Lambda's PAF Series **MBS48 Series:** • High attenuation • Stud terminal connection • Compact size
Note: *For safety and EMI certifications please see series data sheets*

Fig. 1 — MAW Series

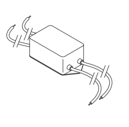

Fig. 2 — MA Series

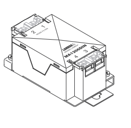

Fig. 3 — MC Series

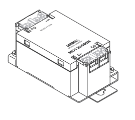

Fig. 4 — MB Series

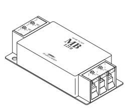

Fig. 5 — PAN Series

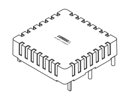

Fig. 6 — MBS48 Series

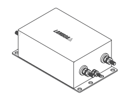

Fig.	Series	Rated Voltage	Rated Current (A)	Digi-Key Part No.	Price Each		TDK-Lambda Part No.
					1	10	
1	MAW	250VAC/VDC	0.5	285-1464-ND	10.50	10.25	MAW12R522
	MAW	250VAC/VDC	1.0	285-1460-ND	11.50	11.25	MAW120122
	MAW	250VAC/VDC	2.0	285-1461-ND	11.75	11.50	MAW120222
	MAW	250VAC/VDC	3.0	285-1462-ND	13.50	13.25	MAW120322
	MAW	250VAC/VDC	5.0	285-1463-ND	14.00	13.75	MAW120522
2	MA	250VAC/VDC	6	285-1457-ND	27.00	26.25	MA1206DIN
	MA	250VAC/VDC	10	285-1458-ND	28.25	27.50	MA1210DIN
3	MC	250VAC	6	285-1471-ND	35.00	34.00	MC1206DIN
	MC	250VAC	10	285-1472-ND	38.00	37.00	MC1210DIN
	MC	250VAC	20	285-1473-ND	47.00	46.00	MC1220DIN
3	MC	250VAC	30	285-1474-ND	55.00	53.00	MC1230DIN
4	MB	250VAC/VDC	6	285-1740-ND	35.00	34.50	MB1206
	MB	250VAC/VDC	10	285-1465-ND	47.00	46.00	MB1210
	MB	250VAC/VDC	16	285-1466-ND	54.00	53.00	MB1216
	MB	250VAC/VDC	20	285-1467-ND	61.00	60.00	MB1220
	MB	250VAC/VDC	36	285-1468-ND	92.00	90.00	MB1236
5	PAN	76VDC	20	285-1490-ND	33.00	32.00	PAN4820
6	MBS48	48VDC	30	285-1469-ND	71.00	69.00	MBS4830
	MBS48	48VDC	50	285-1470-ND	115.00	112.00	MBS4850

Dimensions in mm

Fig. 1A

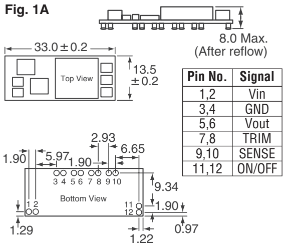

Pin No.	Signal
1,2	Vin
3,4	GND
5,6	Vout
7,8	TRIM
9,10	SENSE
11,12	ON/OFF

Fig. 1B

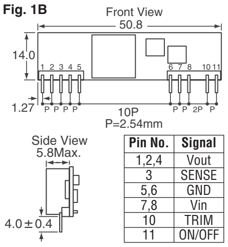

Pin No.	Signal
1,2,4	Vout
3	SENSE
5,6	GND
7,8	Vin
10	TRIM
11	ON/OFF

MPDRX0 and MPDRX1 Series Features: • Non-Isolated POL • Ultra High-Speed load-current transient response • Industry-standard pinouts • Wide adjustable output voltage • On/Off control function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 2A

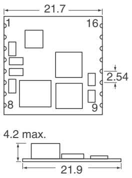

Pin No.	Symbol	Function
1	SENSE	Output Voltage Sense
2,3	Vout	Output
4,5,11,12	GND	GND
8	FT	Output Trim
7	VAR	Vout Adjustment
9,10	Vin	Input
6	SS	Soft Start
14	N.C.	No Connection
15	POW-GOOD1	Power Good
16	POW-GOOD2	Power Good
13	RC	Remote ON/OFF

Fig. 2B

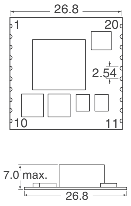

Pin No.	Symbol	Function
1	SENSE	Output Voltage Sense
2,3,4	Vout	Output
5,6,7,8 13,14,15	GND	GND
9	FT	Output Trim
10	VAR	Vout Adjustment
11,12	Vin	Input
17	SS	Soft Start
18	N.C.	No Connection
19	POW-GOOD1	Power Good
20	POW-GOOD2	Power Good
16	RC	Remote ON/OFF

MPDRX30xS Series Features: • Non-Isolated POL • Wide Input and Output Voltage • Ultra High-Speed load-current transient response • Short circuit protection available • Low profile • Adjustable Vout • On/Off control function available • Two power good signal output terminals • Variable start-up speed (by external capacitor) **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 3

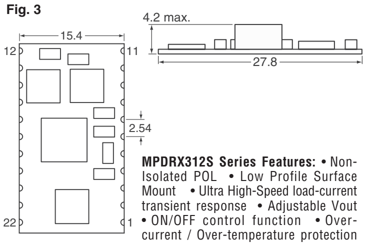

Pin No.	Symbol	Function
2	SENSE	Output Voltage Sense
3,4,5	Vout	Output
6,7,8,9, 16,17,18	GND	GND
10	FT	Output Trim
11	VAR	Output Voltage Adjustment
12,13,14,15	Vin	Input
1	OVPOUT	Output Over-Voltage Alarm
19	SS	Soft Start
20	N.C.	No Connection
21	PWRGOOD	Power Good
22	ON/OFF	Remote ON/OFF

MPDRX312S Series Features: • Non-Isolated POL • Low Profile Surface Mount • Ultra High-Speed load-current transient response • Adjustable Vout • ON/OFF control function • Over-current / Over-temperature protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 4A

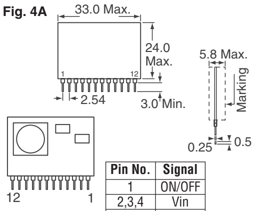

Pin No.	Signal
1	ON/OFF
2,3,4	Vin
5,6,7,8	DND
9,10,11	Vout
12	Adjust

Fig. 4B

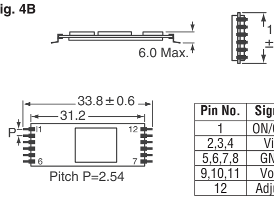

Pin No.	Signal
1	ON/OFF
2,3,4	Vin
5,6,7,8	GND
9,10,11	Vout
12	Adjust

MPDTY Series 6A POL Features: • High efficiency • On/Off control function • Trim function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 5

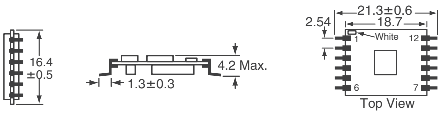

Pin No.	Signal
1,7	NC
2	ON/OFF
3,4	+Vin
5,6,8	GND
9,10	Vout
11	Vref
12	Adjust

MPDTY102S SMD Non-Isolated 2A POL Features: • No Derating • Ultra-low profile • High efficiency • On/Off control function • Wide adjustable output voltage • Short circuit protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 6

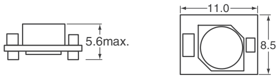

Pin No.	Symbol	Function
1	Reserved	N.C. Leave this pin open
2	Vout	Output
3	GND	GND
4	+SENSE	Vout Sense Input
5	GND	GND
6	ON/OFF	Remote ON/OFF
7	Vin	Input
8	TRIM	Vout Adjust Control

MPDTY201S Industry Standard Low Voltage / High Current Non-Isolated Features: • High efficiency and high power density • Output voltage adjustable via external resistors • Built in ON/OFF function • Built in short circuit and overheating protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each				Murata Part No.
					1	10	25	100	
Non-Isolated DC-DC Converters									
1A	0.8 ~ 1.8	16	3 ~ 5.5	490-4541-ND	28.15	27.45	26.74	23.23	MPDRX002S
	0.8 ~ 1.8	12	7 ~ 14	490-4542-ND	28.15	27.45	26.74	23.23	MPDRX004S
1B	0.8 ~ 1.8	16	10.8 ~ 13.2	490-4543-ND	28.15	27.45	26.74	23.23	MPDRX103S
	1.5 ~ 3.3	12	10.8 ~ 13.2	490-4544-ND	28.15	27.45	26.74	23.23	MPDRX104S
2A	1.6 ~ 3.63	13	5.6 ~ 14	490-5003-ND	23.02	22.45	21.87	19.00	MPDRX301S
	0.8 ~ 1.65	13	5.6 ~ 14	490-5004-ND	23.02	22.45	21.87	19.00	MPDRX302S
2B	1.6 ~ 3.63	26	5.6 ~ 14	490-5005-ND	35.57	34.69	33.80	29.35	MPDRX303S
	0.8 ~ 1.65	26	5.6 ~ 14	490-5006-ND	35.57	34.69	33.80	29.35	MPDRX304S
3	0.8 ~ 1.8	16	3.0 ~ 5.5	490-5015-ND	23.02	22.45	21.87	19.00	MPDRX312S
4A	1.0	6	3 ~ 3.63	490-4545-ND	19.19	18.71	18.23	15.83	MPDTY011S
	1.0	6	4.5 ~ 5.5	490-4551-ND	19.19	18.71	18.23	15.83	MPDTY021S
	1.2	6	3 ~ 3.63	490-4546-ND	19.19	18.71	18.23	15.83	MPDTY012S
	1.2	6	4.5 ~ 5.5	490-4552-ND	19.19	18.71	18.23	15.83	MPDTY022S
	1.5	6	3 ~ 3.63	490-4547-ND	19.19	18.71	18.23	15.83	MPDTY013S
	1.5	6	4.5 ~ 5.5	490-4553-ND	19.19	18.71	18.23	15.83	MPDTY023S
	1.8	6	3 ~ 3.63	490-4548-ND	19.19	18.71	18.23	15.83	MPDTY014S
	1.8	6	4.5 ~ 5.5	490-4554-ND	19.19	18.71	18.23	15.83	MPDTY024S
	2.0	6	3 ~ 3.63	490-4549-ND	19.19	18.71	18.23	15.83	MPDTY015S
	2.0	6	4.5 ~ 5.5	490-4555-ND	19.19	18.71	18.23	15.83	MPDTY025S
	2.5	6	3 ~ 3.63	490-4550-ND	19.19	18.71	18.23	15.83	MPDTY016S
	2.5	6	4.5 ~ 5.5	490-4556-ND	19.19	18.71	18.23	15.83	MPDTY026S
	3.3	6	4.5 ~ 5.5	490-4557-ND	19.19	18.71	18.23	15.83	MPDTY027S
4B	1.0	6	3 ~ 3.63	490-4558-ND	19.19	18.71	18.23	15.83	MPDTY111S
	1.0	6	4.5 ~ 5.5	490-4564-ND	19.19	18.71	18.23	15.83	MPDTY121S
	1.2	6	3 ~ 3.63	490-4559-ND	19.19	18.71	18.23	15.83	MPDTY112S
	1.2	6	4.5 ~ 5.5	490-4565-ND	19.19	18.71	18.23	15.83	MPDTY122S
	1.5	6	4.5 ~ 5.5	490-4566-ND	19.19	18.71	18.23	15.83	MPDTY123S
	1.8	6	3 ~ 3.63	490-4561-ND	19.19	18.71	18.23	15.83	MPDTY114S
	1.8	6	4.5 ~ 5.5	490-4567-ND	19.19	18.71	18.23	15.83	MPDTY124S
	2.0	6	3 ~ 3.63	490-4562-ND	19.19	18.71	18.23	15.83	MPDTY115S
	2.0	6	4.5 ~ 5.5	490-4568-ND	19.19	18.71	18.23	15.83	MPDTY125S
	2.5	6	3 ~ 3.63	490-4563-ND	19.19	18.71	18.23	15.83	MPDTY116S
	2.5	6	4.5 ~ 5.5	490-4569-ND	19.19	18.71	18.23	15.83	MPDTY126S
	3.3	6	4.5 ~ 5.5	490-4570-ND	19.19	18.71	18.23	15.83	MPDTY127S

Fig. 7

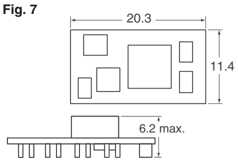

Pin No.	Symbol	Function
1,2	Vin	Input Voltage
3,4	GND	GND
5,6	TRIM	Output Voltage Adjustment
7,8	Vout	Output Voltage
9,10	ON/OFF	Remote ON/OFF

MPDTY41xS Low Voltage / High Current Non-Isolated Features: • Low profile: 6.2mm maximum • Output voltage is adjustable by using single external resistance • Built in ON/OFF function • Built in short circuit and over temperature protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 8

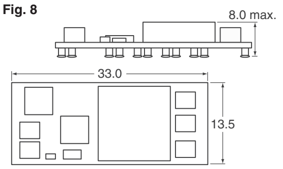

Pin No.	Signal
1,2	Vin
5,6	GND
7,8	Vout
9,10	TRIM
11,12	Sense
13,14	ON/OFF

MPDTY402S Industry Standard Foot Print / 16A Output POL Features: • Wide input and output voltage • On/Off control function • Short circuit protection • Austin Lynx pin compatible • Safety agency approvals: UL/cUL 60950, EN60950, VDE **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 9

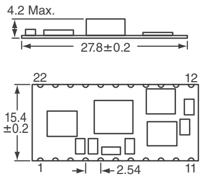

Pin No.	Symbol	Function
1,2,3,4,5	Vout	Voltage Output
6,7,8,9,10, 18,19,20,21	GND	GND
11	VAR	Output Voltage Adjustment
12	ON/OFF	Remote On/Off
13,14,15, 16,17	Vin	Voltage Input
22	N.C.	N.C.(Sense for MPDTY303S)

MPDTY3xxS Series SMD Non-Isolated POL Features: • Ultra-low profile • High efficiency up to 94% • Wide adjustable output voltage • On/Off control function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

(Continued)

Dimensions in mm

Fig. 10

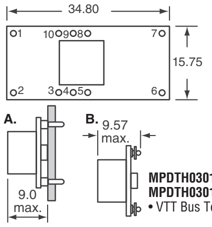

MPDTH03010WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Up	Margin Down Signal Input
10	Margin Down	Margin Up Signal Input

MPDTH03010YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	VRef	Reference Voltage Input

MPDTH03010WAx Features: • Non-Isolated, POLA Compatible • Trimmable Output 0.8 ~ 2.5Vout • 15Aout **MPDTH03010YAx Features:** • Non-Isolated, POLA Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 11

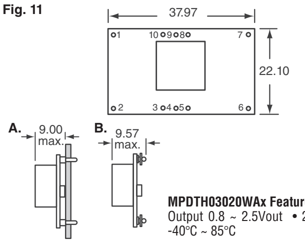

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH03020WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 2.5Vout • 22Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 12

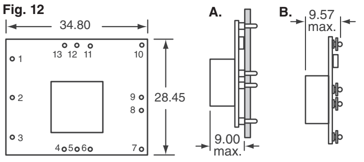

Pin No.	Symbol	Function
1,3,7,10	GND	Ground
2	Vin	Input
4	Inhibit	REMOTE ON/OFF
5	VoAdjust	Vout Control
6	VoSense	Vout Sense
8,9	Vout	Output
11	Track	Tracking Signal Input
12	Margin Down	Margin Down Signal Input
13	Margin Up	Margin Up Signal Input

MPDTH03030WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 2.5Vout • 30Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 13

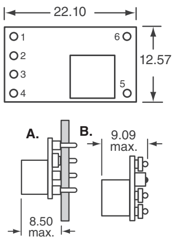

MPDTH03050WAx

Pin No.	Symbol	Function
1	GND	Ground
2	Track	Tracking Signal Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	VoAdjust	Vout Control
6	Vout	Output

MPDTH03050YAx

Pin No.	Symbol	Function
1	GND	Ground
2	VRef	Ref. Voltage Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	No Connect	—
6	VTT	VTT Output

MPDTH03050WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 2.5Vout • 6Aout **MPDTH03050YAx Features:** • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 14

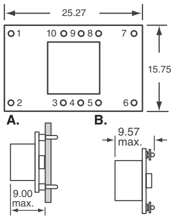

MPDTH03060YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	Vref	Ref. Voltage Input

MPDTH03060WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH03060WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 2.5Vout • 10Aout **MPDTH03060YAx Features:** • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output • 10Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 15

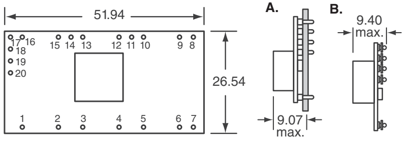

Pin No.	Symbol	Function
1,3,5,10,13,16	GND	Ground
2, 4, 6	Vin	Input
7	Inhibit	REMOTE ON/OFF
8	UVLOProg	UVLO
9,12,15	Vout	Output
11	Vo+Sense	Vout + sense
14	Vo-Sense	Vout - sense
17	VoAdjust	Vout control
18	Track	Tracking Signal Input
19	Margin Up	Margin Up Signal Input
20	Margin Down	Margin Down Signal Input

MPDTH04040WAx Features: • Non-Isolated, POLA-Compatible • Wide Input voltage range 3 ~ 5Vin • Trimmable Output 0.8 ~ 2.5Vout • 60Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 16

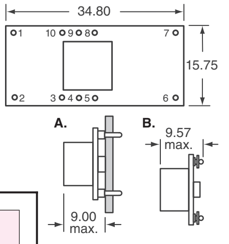

MPDTH05010WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH05010YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	Vref	Reference Voltage Input

MPDTH05010WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 3.6Vout • 15Aout **MPDTH05010YAx Features:** • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output • 15Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 17

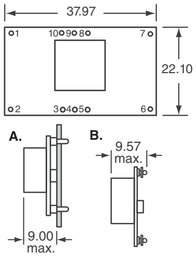

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH05020xxx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 3.6Vout • 22Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 18

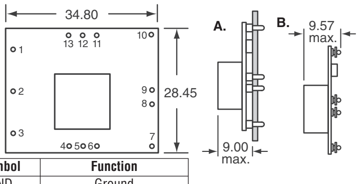

Pin No.	Symbol	Function
1,3,7,10	GND	Ground
2	Vin	Input
4	Inhibit	REMOTE ON/OFF
5	VoAdjust	Vout Control
6	VoSense	Vout Sense
8,9	Vout	Output
11	Track	Tracking Signal Input
12	Margin Down	Margin Down Signal Input
13	Margin Up	Margin Up Signal Input

MPDTH05030WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 0.8 ~ 3.6Vout • 30Aout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each 1	10	25	100	Murata Part No.
5	0.8 ~ 5.0	2	2.97 ~ 5.5	490-4571-ND	12.53	12.22	11.90	10.34	MPDTY102S
6	0.8 ~ 2.5	3	3.0 ~ 5.5	490-5011-ND	5.20	5.08	4.95	4.30	MPDTY201S
7	0.8 ~ 3.6	7	4.5 ~ 5.5	490-5012-ND	13.26	12.94	12.60	10.95	MPDTY411S
	0.8 ~ 2.5	7	3.0 ~ 3.6	490-5013-ND	15.62	15.23	14.84	12.89	MPDTY412S
8	0.75 ~ 3.3	16	3.0 ~ 5.5	490-5014-ND	22.75	22.19	21.62	18.78	MPDTY402S
9	0.8 ~ 2.5	7	3.0 ~ 3.6	490-4573-ND	16.89	16.47	16.05	13.94	MPDTY302S
	0.8 ~ 2.5	16	3.0 ~ 3.6	490-4576-ND	19.19	18.71	18.23	15.83	MPDTY312S
	0.8 ~ 3.3	7	4.5 ~ 5.5	490-4572-ND	16.89	16.47	16.05	13.94	MPDTY301S
	0.8 ~ 3.3	16	4.5 ~ 5.5	490-4575-ND	19.19	18.71	18.23	15.83	MPDTY311S
	0.8 ~ 5.5	8	6.5 ~ 14.0	490-4574-ND	16.89	16.56	16.05	13.94	MPDTY303S
10A	0.8 ~ 2.5	15	2.95 ~ 3.65	490-5059-ND	21.81	21.27	20.72	18.00	MPDTH03010WAH
	0.55 ~ 1.8	15	2.95 ~ 3.65	490-5061-ND	21.81	21.27	20.72	18.00	MPDTH03010YAH
10B	0.8 ~ 2.5	15	2.95 ~ 3.65	490-5060-ND	20.78	20.26	19.74	17.15	MPDTH03010WAS
	0.55 ~ 1.8	15	2.95 ~ 3.65	490-5062-ND	20.78	20.26	19.74	17.15	MPDTH03010YAS
11A	0.8 ~ 2.5	22	2.95 ~ 3.65	490-5063-ND	27.56	26.87	26.18	22.74	MPDTH03020WAH
11B	0.8 ~ 2.5	22	2.95 ~ 3.65	490-5064-ND	26.47	25.81	25.15	21.84	MPDTH03020WAS
12A	0.8 ~ 2.5	30	2.95 ~ 3.65	490-5065-ND	41.56	40.52	39.48	34.29	MPDTH03030WAH
12B	0.8 ~ 2.5	30	2.95 ~ 3.65	490-5066-ND	40.32	39.32	38.31	33.27	MPDTH03030WAS
13A	0.8 ~ 2.5	6	2.95 ~ 3.65	490-5067-ND	16.27	15.87	15.46	13.43	MPDTH03050WAH
	0.55 ~ 1.8	6	2.95 ~ 3.65	490-5069-ND	16.27	15.87	15.46	13.43	MPDTH03050YAH
13B	0.8 ~ 2.5	6	2.95 ~ 3.65	490-5068-ND	15.80	15.41	15.01	13.04	MPDTH03050WAS
	0.55 ~ 1.8	6	2.95 ~ 3.65	490-5070-ND	15.80	15.41	15.01	13.04	MPDTH03050YAS
14A	0.8 ~ 2.5	10	2.95 ~ 3.65	490-5071-ND	17.98	17.53	17.08	14.84	MPDTH03060WAH
	0.55 ~ 1.8	10	2.95 ~ 3.65	490-5073-ND	17.98	17.53	17.08	14.84	MPDTH03060YAH
14B	0.8 ~ 2.5	10	2.95 ~ 3.65	490-5072-ND	17.15	16.73	16.30	14.16	MPDTH03060WAS
	0.55 ~ 1.8	10	2.95 ~ 3.65	490-5074-ND	17.15	16.73	16.30	14.16	MPDTH03060YAS
15A	0.8 ~ 3.6	60	2.95 ~ 5.5	490-5075-ND	103.04	100.47	97.89	85.01	MPDTH04040WAH
15B	0.8 ~ 3.6	60	2.95 ~ 5.5	490-5076-ND	96.00	93.60	91.20	79.20	MPDTH04040WAS
16A	0.8 ~ 3.6	15	4.5 ~ 5.5	490-5077-ND	21.81	21.27	20.72	18.00	MPDTH05010WAH
16B	0.8 ~ 3.6	15	4.5 ~ 5.5	490-5078-ND	20.78	20.26	19.74	17.15	MPDTH05010WAS
	0.55 ~ 1.8	15	4.5 ~ 5.5	490-5080-ND	20.78	20.26	19.74	17.15	MPDTH05010YAS
17A	0.8 ~ 3.6	22	4.5 ~ 5.5	490-5081-ND	27.56	26.87	26.18	22.74	MPDTH05020WAH
17B	0.8 ~ 3.6	22	4.5 ~ 5.5	490-5082-ND	26.47	25.81	25.15	21.84	MPDTH05020WAS
18A	0.8 ~ 3.6	30	4.5 ~ 5.5	490-5083-ND	41.56	40.52	39.48	34.29	MPDTH05030WAH
18B	0.8 ~ 3.6	30	4.5 ~ 5.5	490-5084-ND	40.32	39.32	38.31	33.27	MPDTH05030WAS
19A	0.55 ~ 1.8	6	4.5 ~ 5.5	490-5087-ND	16.27	15.87	15.46	13.43	MPDTH05050YAH

(Continued)

Dimensions in mm

Fig. 19

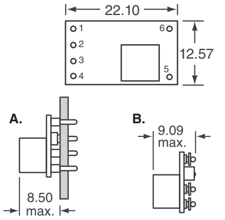

MPDTH05050WAx

Pin No.	Symbol	Function
1	GND	Ground
2	Track	Tracking Signal Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	VoAdjust	Vout Control
6	Vout	Output

MPDTH05050YAx

Pin No.	Symbol	Function
1	GND	Ground
2	VRef	Reference Voltage Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	No Connect	—
6	VTT	VTT Output

MPDTH05050WAx Features: • Non-Isolated, POLA-Compatible • Trimmable Output 0.8 ~ 3.6Vout • 6Aout
MPDTH05050YAx Features: • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output • 6Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 20

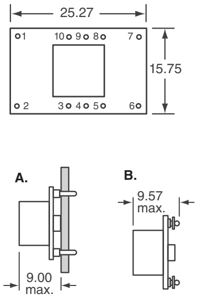

MPDTH05060WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH05060YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	Vref	Reference Voltage Input

MPDTH05060WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 0.8 ~ 3.6Vout • 10Aout
MPDTH05060YAx Features: • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination Output • 10Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 21

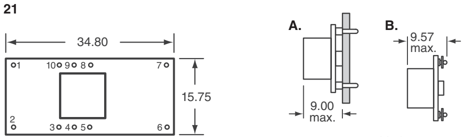

MPDTH12010WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH12010YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	Vref	Reference Voltage Input

MPDTH12010WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 1.2 ~ 5.5Vout • 12Aout
MPDTH12010YAx Features: • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination output • 12Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 22

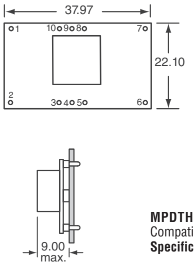

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH12020WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 1.2 ~ 5.5Vout • 18Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 23

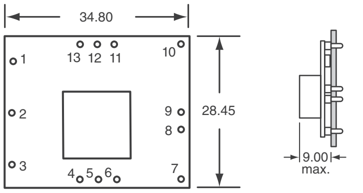

Pin No.	Symbol	Function
1,3,7,10	GND	Ground
2	Vin	Input
4	Inhibit	REMOTE ON/OFF
5	VoAdjust	Vout Control
6	VoSense	Vout Sense
8,9	Vout	Output
11	Track	Tracking Signal Input
12	Margin Down	Margin Down Signal Input
13	Margin Up	Margin Up Signal Input

MPDTH12030WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 1.2 ~ 5.5Vout • 26Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 24

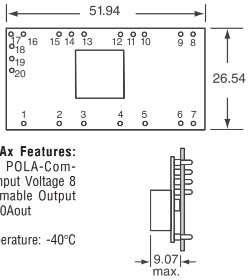

Pin No.	Symbol	Function
1,3,5,10, 13,16	GND	Ground
2, 4, 6	Vin	Input
7	Inhibit	REMOTE ON/OFF
8	UVLOProg	UVLO
9,12,15	Vout	Output
11	Vo+Sense	Vout + sense
14	Vo-Sense	Vout - sense
17	VoAdjust	Vout control
18	Track	Tracking signal input
19	Margin Up	Margin Up Signal Input
20	Margin Down	Margin Down Signal Input

MPDTH12040WAx Features:
• Non-Isolated, POLA-Compatible • Wide Input Voltage 8 ~ 14Vin • Trimmable Output 0.8 ~ 5.5Vout • 50Aout
Specifications:
• Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each 1	10	25	100	Murata Part No.
19B	0.8 ~ 3.6	6	4.5 ~ 5.5	490-5086-ND	15.80	15.41	15.01	13.04	MPDTH05050WAS
	0.55 ~ 1.8	6	4.5 ~ 5.5	490-5088-ND	15.80	15.41	15.01	13.04	MPDTH05050YAS
20A	0.8 ~ 3.6	10	4.5 ~ 5.5	490-5089-ND	17.98	17.53	17.08	14.84	MPDTH05060WAH
	0.55 ~ 1.8	10	4.5 ~ 5.5	490-5091-ND	17.98	17.53	17.08	14.84	MPDTH05060YAH
20B	0.8 ~ 3.6	10	4.5 ~ 5.5	490-5090-ND	17.15	16.73	16.30	14.16	MPDTH05060WAS
	0.55 ~ 1.8	10	4.5 ~ 5.5	490-5092-ND	17.15	16.73	16.30	14.16	MPDTH05060YAS
21A	1.2 ~ 5.5	12	10.8 ~ 13.2	490-5093-ND	21.81	21.27	20.72	18.00	MPDTH12010WAH
21B	0.55 ~ 1.8	12	10.8 ~ 13.2	490-5096-ND	20.78	20.26	19.74	17.15	MPDTH12010YAS
22	1.2 ~ 5.5	18	10.8 ~ 13.2	490-5097-ND	27.56	26.87	26.18	22.74	MPDTH12020WAH
23	1.2 ~ 5.5	26	10.8 ~ 13.2	490-5099-ND	41.56	40.52	39.48	34.29	MPDTH12030WAH
24	0.8 ~ 5.5	50	8 ~ 14	490-5101-ND	83.97	81.88	79.78	69.28	MPDTH12040WAH
25	1.2 ~ 5.5	6	10.8 ~ 13.2	490-5103-ND	16.27	15.87	15.46	13.43	MPDTH12050WAH
	0.55 ~ 1.8	6	10.8 ~ 13.2	490-5105-ND	16.27	15.87	15.46	13.43	MPDTH12050YAH
26	1.1 ~ 3.6	3	3.0 ~ 5.5	490-5002-ND	5.72	5.58	5.44	4.72	MPD6S022S
27A	1.2 ~ 5.5	10	10.8 ~ 13.2	490-5107-ND	17.98	17.53	17.08	14.84	MPDTH12060WAH
	0.55 ~ 1.8	10	10.8 ~ 13.2	490-5109-ND	17.98	17.53	17.08	14.84	MPDTH12060YAH
27B	0.55 ~ 1.8	10	10.8 ~ 13.2	490-5110-ND	17.15	16.73	16.30	14.16	MPDTH12060YAS
Isolated DC-DC Converters									
28	3.3	15	36 ~ 75	490-4998-ND	52.35	51.04	49.73	43.19	MPDKN007S
	5.0	10	36 ~ 75	490-4999-ND	52.35	51.04	49.73	43.19	MPDKN008S
29	1.5	0.8	36 ~ 75	490-4577-ND	22.78	22.22	21.65	18.80	MPD5D013S
	1.8	1	36 ~ 75	490-4578-ND	22.78	22.22	21.65	18.80	MPD5D014S
	2.5	1.2	36 ~ 75	490-4579-ND	22.78	22.22	21.65	18.80	MPD5D016S
	3.3	1.5	36 ~ 75	490-4580-ND	22.78	22.22	21.65	18.80	MPD5D017S
	5	1	36 ~ 75	490-4581-ND	22.78	22.22	21.65	18.80	MPD5D018S
30	1.2	3.5	36 ~ 75	490-4583-ND	26.11	25.47	24.81	21.55	MPD6D102S
	1.5	3.5	36 ~ 75	490-4584-ND	26.11	25.47	24.81	21.55	MPD6D103S
	1.8	3	36 ~ 75	490-4585-ND	26.11	25.47	24.81	21.55	MPD6D104S

Fig. 25

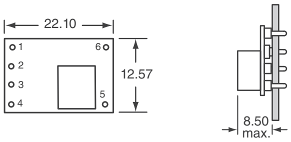

MPDTH12050YAx

Pin No.	Symbol	Function
1	GND	GND
2	VRef	Reference Voltage Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	No Connect	—
6	VTT	VTT Output

MPDTH12050WAx

Pin No.	Symbol	Function
1	GND	Ground
2	Track	Tracking Signal Input
3	Vin	Input
4	Inhibit	Remote ON/OFF
5	VoAdjust	Vout Control
6	Vout	Output

MPDTH12050WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 1.2 ~ 5.5Vout • 6Aout
MPDTH12050YAx Features: • Non-Isolated, POLA-Compatible • Excellent for DDR and QDR Applications • VTT Bus Termination output • 6Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 26

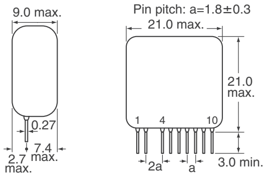

Pin No.	Signal
1	Vin
2	ON/OFF
3	No Pin
4,5	N.C.
6,7	GND
8	Adjust
9,10	VOUT

MPD6S022S Output Voltage Variable / 3A Output Features: • Non-Isolated • High efficiency (95% @ 33V/1A) • Small footprint SIP • Wide output and input voltage range • Short circuit protection • No external caps required
Specifications: • Operating Temperature: 0°C ~ 70°C

(Continued)

DC-DC Converters *(Cont.)*

Dimensions in mm

Fig. 27

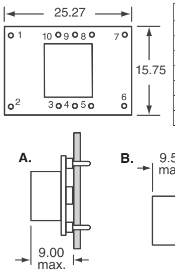

MPDTH12060YAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4,9,10	No Connect	—
5	VoSense	Vout Sense
6	VTT	VTT Output
8	Vref	Reference Voltage Input

MPDTH12060WAx

Pin No.	Symbol	Function
1, 7	GND	Ground
2	Vin	Input
3	Inhibit	REMOTE ON/OFF
4	VoAdjust	Vout Control
5	VoSense	Vout Sense
6	Vout	Output
8	Track	Tracking Signal Input
9	Margin Down	Margin Down Signal Input
10	Margin Up	Margin Up Signal Input

MPDTH12060WAx Features: • Non-Isolated, POLA-Compatible • Trimmable output 1.2 ~ 5.5Vout • 10Aout
MPDTH12060YAx Features: • Non-Isolated, POLA-Compatible • Excellent for DDR & QDR Applications • VTT Bus Termination output • 10Aout
Specifications: • Operating Temperature: -40°C ~ 85°C

Fig. 28

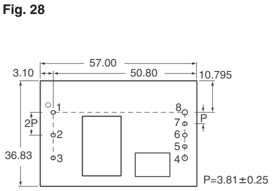

Pin No.	Symbol	Function
1	Vin(+)	(+)Positive Input Voltage
2	On/Off	Remote On/Off
3	Vin(-)	(-)Negative Input Voltage
4	Vout(-)	(-)Negative Output Voltage
5	SENSE(-)	(-)Negative Remote Sense
6	TRIM	Output Voltage Trim
7	SENSE(+)	(+)Positive Remote Sense
8	Vout(+)	(+)Positive Output Voltage

MPDKN00xS Series Features: • Isolated • Quarter brick standard package • High efficiency and high power density is realized by using original synchronous rectifier circuit • Wide input voltage range • Output voltage adjustment is possible by connection of external resistance • Built in over current, over voltage and overheating protection • UL60950 is recognized **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 29

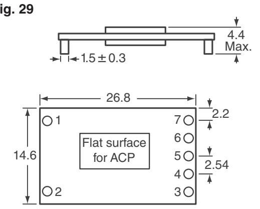

Pin No.	Symbol	Function
1	+Vout	+Output
2	-Vout	-Output
3	ALM	Alarm
4	RC	Remote On/Off Control
5	PO	Parallel Operation
6	+Vin	+Input
7	-Vin	-Input

MPD5D Series SMD Isolated 5W Features: • No De-Rating (@ 40LFM Natural convection air flow) • Smallest and lowest profile in the industry • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 30

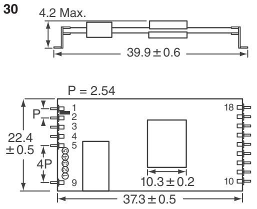

Pin No.	Symbol	Function
9,10,14	NC	Not Connected
1,2,3	+Vout	+Output
4,5	-Vout	-Output
11	ALM	Alarm
12	RC	Remote On/Off Control
13	PO	Parallel Operation
15,16	+Vin	+Input
17,18	-Vin	-Input

MPD6D10xS Series SMD Isolated 10W Features: • No De-Rating (@ 40LFM Natural convection air flow) • Ultra low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 31

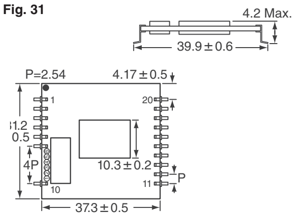

Pin No.	Symbol	Function
1,10,11, 15,20	NC	Not Connected
2,3,4	+Vout	+Output
5,6	-Vout	-Output
12	ALM	Alarm
13	RC	Remote On/ Off Control
14	PO	Parallel Operation
16,17	+Vin	+Input
18,19	-Vin	-Input

MPD6D11xS Series SMD Isolated 15W Features: • No De-Rating (@ 40LFM natural convection air flow) • Ultra-low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 32

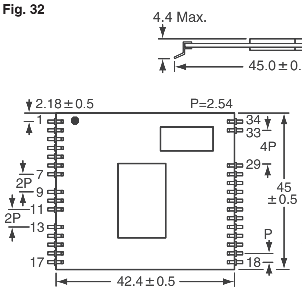

Pin No.	Symbol	Function
1, 2, 4, 6, 16, 17, 18, 19, 33, 34	NC	Not Connected
3	ALM	Alarm
5	RC	Remote On/Off Control
7	PO	Parallel Operation
9, 10, 11	-Vin	-Input
13, 14, 15	+Vin	+Input
20, 21, 22, 23	+Vout	+Output
24, 25, 26, 27, 28, 29	-Vout	-Output

MPD6D12xS Series SMD Isolated 30W Features: • No De-Rating (@ 40LFM natural convection air flow) • Ultra-low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 33

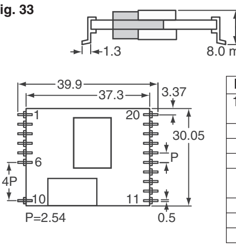

Pin No.	Symbol	Function
1,10,11, 15,20	NC	Not Connected
2,3,4	+Vout	+Output
5,6	-Vout	-Output
12	ALM	Alarm output
13	RC	Remote On/Off Control
14	PO	Parallel Operation
16,17	+Vin	+Input
18,19	-Vin	-Input

MPD6D20xS and MPD7D06xS Series Isolated Features: • Low profile and small size • Wide input voltage range • Wide operating ambient temperature range with minimum power derating • Input-output isolation voltage • UL60950 recognized, self-declare CE mark **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 34

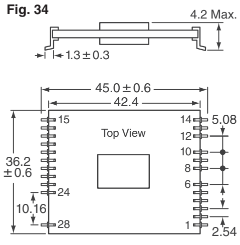

Pin No.	Symbol	Function
1,28	NC	Pins bonded with Resin on a Motherboard
2	ALM	Alarm
3,5	NC	Not Connected
4	RC	Remote On/ Off Control
6	PO	Parallel Operation
8,9,10	-Vin	-Input
12,13,14 15,16,	+Vin	+Input
17,18 19,20,21,	+Vout	+Output
22,23,24	-Vout	-Output

MPD7D05xS Series SMD Isolated 50W Features: • Ultra-low profile • Current sharing (up to 5 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each				Murata Part No.
					1	10	25	100	
30	2	3	36 ~ 75	490-4586-ND	26.11	25.47	24.81	21.55	MPD6D105S
	2.5	3	36 ~ 75	490-4587-ND	26.11	25.47	24.81	21.55	MPD6D106S
	3.3	3	36 ~ 75	490-4588-ND	26.11	25.47	24.81	21.55	MPD6D107S
	5	2	36 ~ 75	490-4589-ND	26.11	25.47	24.81	21.55	MPD6D108S
	5.2	2	36 ~ 75	490-4590-ND	26.11	25.47	24.81	21.55	MPD6D109S
	12	0.8	36 ~ 75	490-4582-ND	26.11	25.47	24.81	21.55	MPD6D101S
31	1.5	5.2	36 ~ 75	490-4592-ND	31.98	31.18	30.38	26.39	MPD6D113S
	1.8	4.5	36 ~ 75	490-4593-ND	31.98	31.18	30.38	26.39	MPD6D114S
	2.5	4.5	36 ~ 75	490-4594-ND	31.98	31.18	30.38	26.39	MPD6D116S
	3.3	4.5	36 ~ 75	490-4595-ND	31.98	31.18	30.38	26.39	MPD6D117S
	5.0	3	36 ~ 75	490-4596-ND	31.98	31.18	30.38	26.39	MPD6D118S
	5.2	3	36 ~ 75	490-4597-ND	31.98	31.18	30.38	26.39	MPD6D119S
32	1.2	12	36 ~ 75	490-4598-ND	45.30	44.17	43.04	37.38	MPD6D122S
	1.5	11	36 ~ 75	490-4599-ND	45.30	44.17	43.04	37.38	MPD6D123S
	1.8	11	36 ~ 75	490-4600-ND	45.30	44.17	43.04	37.38	MPD6D124S
	2.5	10	36 ~ 75	490-4601-ND	45.30	44.17	43.04	37.38	MPD6D126S
	3.3	9	36 ~ 75	490-4602-ND	45.30	44.17	43.04	37.38	MPD6D127S
	5.0	6	36 ~ 75	490-4603-ND	45.30	44.17	43.04	37.38	MPD6D128S
33	3.3	9	18 ~ 36	490-5007-ND	40.14	39.14	38.14	33.12	MPD6D207S
	5.5	6	18 ~ 36	490-5008-ND	40.14	39.14	38.14	33.12	MPD6D209S
	5.0	7	36 ~ 75	490-5010-ND	49.63	48.40	47.16	40.95	MPD7D068S
34	1.2	16	36 ~ 75	490-4604-ND	52.46	51.16	49.84	43.29	MPD7D052S
	1.5	17	36 ~ 75	490-4605-ND	52.46	51.16	49.84	43.29	MPD7D053S
	1.8	16	36 ~ 75	490-4606-ND	52.46	51.16	49.84	43.29	MPD7D054S
	2.5	15	36 ~ 75	490-4607-ND	52.46	51.16	49.84	43.29	MPD7D056S
	5.0	10	36 ~ 75	490-4609-ND	52.46	51.16	49.84	43.29	MPD7D058S

External Power Supplies

SL Power has an external line of power products marketed under the Ault brand. External power is increasingly popular because OEMs require smaller, more feature-rich products that can be used in a variety of environments. The Ault brand has switch-mode power supplies in wall mount and desktop styles for ITE or medical applications. Energy Star models are ideal when efficiency is a must. Power over Ethernet products carry power and data in a single unit that can support legacy or next generation systems that meet the IEEE802.3af standard. **NOTE: Power cords are not included.**

Output Connector Options

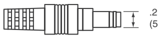

(For power supplies 5 amps or less)

Style 03 Connector (Switchcraft Part Number 760)

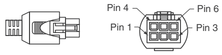

Style 51 Connector (Molex Part Number 39-01-2060)

Fig. 1

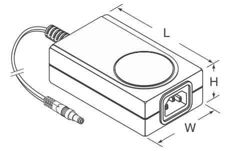

Fig. 2

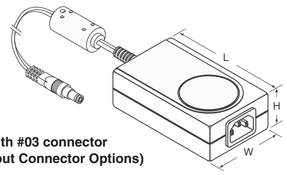

Shown with #03 connector (See Output Connector Options)

Fig. 3

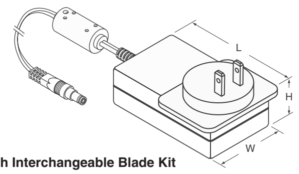

Shown with Interchangeable Blade Kit

Fig. 4 ***NEW!***

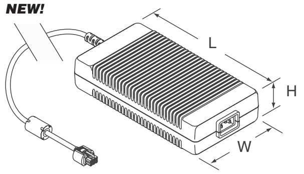

Fig. 5

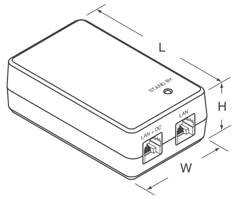

Fig. 6

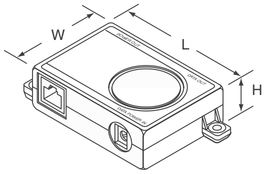

Fig. 7

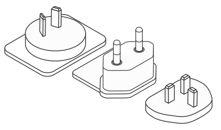

Interchangeable Blade Kit for PW170 and MW172 Wall Plug Series (Optional)

Fig.	Output	Total Power (W)	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Ault Part No.
					1	10	25	
Industrial								
2	+5V @ 4A +12V @ 1A	22.5	5.08 x 3.05 x 1.59 (129 x 77 x 40)	271-2481-ND	63.54	59.57	55.60	SW201MA0012F01
	+5V @ 4A +12V @ 1A -12V @ 0.6A	22.5	5.08 x 3.05 x 1.59 (129 x 77 x 40)	271-2482-ND	66.03	61.91	57.78	SW301MA0012F01
	+5V @ 5A +12V @ 4A -12V @ 0.5A	50	5.87 x 3.34 x 2.0 (149 x 86 x 51)	271-2480-ND	86.58	81.17	75.76	PW300MA0012F01
	12V @ 6.3A	75	5.44 x 2.19 x 1.32 (138.2 x 55.6 x 33.5)	271-2569-ND	71.62	67.14	62.67	PW156RA1203N01
	24V @ 3.1A	75	5.44 x 2.19 x 1.32 (138.2 x 55.6 x 33.5)	271-2570-ND	71.62	67.14	62.67	PW156RA2403N01
Industrial EISA Compliant								
1	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2587-ND	29.50	27.66	25.82	PW173KB0903F01
	12V @ 2.5A	30	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2588-ND	29.50	27.66	25.82	PW173KB1203F01
	24V @ 1.33A	31.9	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2589-ND	29.50	27.66	25.82	PW173KB2403F01
	12V @ 3.4A	40	3.98 x 2.4 x 1.34 (101 x 61 x 34)	271-2564-ND	33.06	30.99	28.93	PW153KB1203F01
	24V @ 1.7A	40	3.98 x 2.4 x 1.34 (101 x 61 x 34)	271-2565-ND	33.06	30.99	28.93	PW153KB2403F01
	12V @ 9.17A	110	6.6 x 3.2 x 1.6 (167 x 82 x 40)	271-2566-ND	97.66	91.56	85.46	CENT1120A1251F01
	24V @ 5A	120	6.6 x 3.2 x 1.6 (167 x 82 x 40)	271-2567-ND	97.66	91.56	85.46	CENT1120A2451F01
	48V @ 2.5A	120	6.6 x 3.2 x 1.6 (167 x 82 x 40)	271-2568-ND	97.66	91.56	85.46	CENT1120A4803F01
	5V @ 2A	10	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2571-ND	15.30	14.34	13.39	PW170KB0503F01
	9V @ 1.5A	13.5	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2572-ND	15.30	14.34	13.39	PW170KB0903F01
	12V @ 1.2A	15	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2573-ND	15.30	14.34	13.39	PW170KB1203F01
	24V @ .63A	15	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2574-ND	15.30	14.34	13.39	PW170KB2403F01
	5V @ 3A	15	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2579-ND	17.54	16.44	15.35	PW172KB0503F01
	9V @ 2A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2580-ND	17.54	16.44	15.35	PW172KB0903F01
	12V @ 1.5A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2581-ND	17.54	16.44	15.35	PW172KB1203F01
	24V @ .75A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2582-ND	17.54	16.44	15.35	PW172KB2403F01
2	12V @ 5A	60	4.2 x 2.6 x 1.46 (107 x 66 x 37)	271-2593-ND	44.64	41.85	39.06	PW174KB1203F01
	24V @ 2.7A	64.8	4.2 x 2.6 x 1.46 (107 x 66 x 37)	271-2594-ND	44.64	41.85	39.06	PW174KB2403F01
3	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2590-ND	29.14	27.32	25.50	PW173KB0903B01
	12V @ 2.5A	30	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2591-ND	29.14	27.32	25.50	PW173KB1203B01
	24V @ 1.33A	31.9	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2592-ND	29.14	27.32	25.50	PW173KB2403B01
	5V @ 2A	10	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2575-ND	17.55	16.46	15.36	PW170KB0503B01
	9V @ 1.5A	13.5	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2576-ND	17.55	16.46	15.36	PW170KB0903B01
	12V @ 1.2A	15	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2577-ND	17.55	16.46	15.36	PW170KB1203B01
	24V @ .63A	15	3.3 x 1.81 x 1.26 (84 x 46 x 33)	271-2578-ND	17.55	16.46	15.36	PW170KB2403B01
	5V @ 3A	15	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2583-ND	19.84	18.60	17.36	PW172KB0503B01
	9V @ 2A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2584-ND	19.84	18.60	17.36	PW172KB0903B01
	12V @ 1.5A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2585-ND	19.84	18.60	17.36	PW172KB1203B01
	24V @ .75A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2586-ND	19.84	18.60	17.36	PW172KB2403B01
Medical Grade								
2	12V @ 9.17A	110	6.6 x 3.2 x 1.6 (167 x 82 x 40)	271-2595-ND	117.73	110.37	103.02	MW155RA1251F01
	24V @ 5A	120	6.6 x 3.2 x 1.6 (167 x 82 x 40)	271-2596-ND	117.73	110.37	103.02	MW155RA2451F01
Medical Grade EISA Compliant								
1	5V @ 4A	20	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2613-ND	32.91	30.86	28.80	MW173KB0503F01
	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2614-ND	32.91	30.86	28.80	MW173KB0903F01
	12V @ 2.5A	30	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2615-ND	32.91	30.86	28.80	MW173KB1203F01
	24V @ 1.33A	31.9	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2616-ND	32.91	30.86	28.80	MW173KB2403F01
	5V @ 2A	10	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2597-ND	20.29	19.02	17.76	MW170KB0503F01
	9V @ 1.5A	13.5	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2598-ND	20.29	19.02	17.76	MW170KB0903F01
	12V @ 1.2A	14.4	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2599-ND	20.29	19.02	17.76	MW170KB1203F01
	5V @ 3A	15	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2605-ND	22.99	21.56	20.12	MW172KB0503F01
	9V @ 2A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2606-ND	22.99	21.56	20.12	MW172KB0903F01
	12V @ 1.5A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2607-ND	22.99	21.56	20.12	MW172KB1203F01
2	12V @ 5A	60	4.2 x 2.6 x 1.46 (107 x 66 x 37)	271-2621-ND	50.05	46.92	43.80	MW174KB1203F01
	24V @ 2.7A	64.8	4.2 x 2.6 x 1.46 (107 x 66 x 37)	271-2622-ND	50.05	46.92	43.80	MW174KB2403F01
3	5V @ 4A	20	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2617-ND	32.54	30.51	28.48	MW173KB0503B01
	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2618-ND	32.54	30.51	28.48	MW173KB0903B01
	12V @ 2.5A	30	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2619-ND	32.54	30.51	28.48	MW173KB1203B01
	5V @ 2A	10	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2601-ND	22.19	20.81	19.42	MW170KB0503B01
	9V @ 1.5A	13.5	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2602-ND	22.19	20.81	19.42	MW170KB0903B01
	12V @ 1.2A	14.4	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2603-ND	22.19	20.81	19.42	MW170KB1203B01
	24V @ .63A	15.1	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2604-ND	22.19	20.81	19.42	MW170KB2403B01
	5V @ 3A	15	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2609-ND	23.62	22.14	20.67	MW172KB0503B01
	12V @ 1.5A	18	3.3 x 1.81 x 1.26 (84 x 46 x 32)	271-2611-ND	23.62	22.14	20.67	MW172KB1203B01
NEW! Medical Grade Universal Input NEW!								
4	24V @ 9.17A	220	8.4 x 4.25 x 1.85 (214 x 108 x 47)	271-2676-ND	148.00	138.75	129.50	MENT1220A2451F01
	48V @ 4.58A	220	8.4 x 4.25 x 1.85 (214 x 108 x 47)	271-2677-ND	156.27	146.51	136.74	MENT1220A4851F01
Power Over Ethernet (PoE)								
5	48V @ 0.35A	15.4	3.98 x 2.40 x 1.35 (101 x 61.5 x 34.2)	271-2478-ND	24.56	23.03	21.49	PW180KB4800F01
	48V @ 0.4A	20	3.98 x 2.40 x 1.35 (101 x 61.5 x 34.2)	271-2476-ND	18.66	17.49	16.33	PW180KA4800F01
	48V @ 0.4A	20	3.98 x 2.40 x 1.35 (101 x 61.5 x 34.2)	271-2477-ND†	18.66	17.49	16.33	PW180KA4800N01
	48V @ 0.35A	17	5.24 x 2.13 x 1.42 (133.0 x 54.0 x 36.0)	271-2561-ND	38.24	35.85	33.46	PW182RB4800F01
	48V @ 0.67A	32	5.24 x 2.13 x 1.42 (133.0 x 54.0 x 36.0)	271-2562-ND	38.74	36.32	33.90	PW183RA4800F01
6	24V @ .475A	11.4	3 x 2.1 x 1 (76.2 x 53.34 x 25.4)	271-2627-ND	65.25	61.17	57.10	LS15RB2401J04
Accessories								
7	Interchangeable Blade Kit for PW170 and MW172 Wall Plug Series			271-2392-ND	4.72	4.43	4.13	KT1027K
—	2.5 ~ 2.1 mm Adapter			271-2628-ND	2.53	2.38	2.22	6872340FG

† With Shaver C8 Style Plug

Manufacturers of the following product brands: CONDOR AULT

Medical Global Switchers

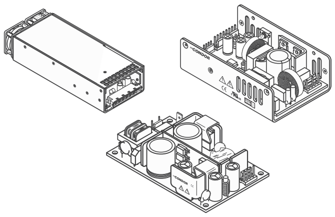

- Wide Input Range
- Input Protection: Internal AC fuse provided on all units. This fuse only blows if a catastrophic failure occurs in the unit — it does not blow on overload or short circuit. AC input protected against line transients by metal oxide varistors on all medical units.
- Overload Protection: Fully protected against short circuit and output overload. Short circuit protection is cycling type on Outputs #1 and #2; fold back type on Outputs #3 and #4. Recovery after fault is automatic.
- 2-Year Warranty
- For Safety and EMC specifications please see series data sheets.

Single Output Medical

Total Power Watts	Voltage	Convection Cooled Current	Airflow Current	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Fan Outlet	Fan Contacts	Digi-Key Part No.	Price Each 1	10	25	Condor Part No.
GSM Series — RoHS Compliant																	
11	3.3	2.0A	—	—	2.28 x 2.00 x .56 (57.91 x 50.80 x 14.22)	WM18874	WM18873	WM17406	—	—	—	—	271-2240-ND	38.05	35.12	32.61	GSM11-3AAG
	5.1	2.2A	—	—		WM18874	WM18873	WM17406	—	—	—	—	271-2241-ND	38.05	35.12	32.61	GSM11-5AAG
	12	.92A	—	—		WM18874	WM18873	WM17406	—	—	—	—	271-2242-ND	38.05	35.12	32.61	GSM11-12AAG
	15	.73A	—	—		WM18874	WM18873	WM17406	—	—	—	—	271-2243-ND	38.05	35.12	32.61	GSM11-15AAG
	24	.46A	—	—		WM18874	WM18873	WM17406	—	—	—	—	271-2244-ND	38.05	35.12	32.61	GSM11-24AAG
	28	.39A	—	—		WM18874	WM18873	WM17406	—	—	—	—	271-2245-ND	38.05	35.12	32.61	GSM11-28AAG
28	5.1	5.5A	—	±5%	4.00 x 2.59 x .92 (101.60 x 65.79 x 23.37)	A19950	A19952	A31395CT	—	—	—	—	271-2367-ND	67.75	62.54	58.07	GSM28-5G
	12	2.3A	—	±5%		A19950	A19952	A31395CT	—	—	—	—	271-2365-ND	67.75	62.54	58.07	GSM28-12G
	24	1.2A	—	±5%		A19950	A19952	A31395CT	—	—	—	—	271-2366-ND	67.75	62.54	58.07	GSM28-24G
Chassis and Cover for GSM28 Series, 4.31 x 3.10 x 1.53 (109.47 x 78.74 x 38.86)													271-2291-ND	21.08	—	—	08-30466-0028G
GNT Series — RoHS Compliant																	
30	12	2.5A	—	—	3.15 x 1.97 x .98 (80.01 x 50.04 x 24.89)	A31018	A31019	A9982 (Tool)	—	—	—	—	271-2330-ND	50.09	46.96	43.83	GNT30-12G
	15	2.0A	—	—		A31018	A31019	A9982 (Tool)	—	—	—	—	271-2331-ND	50.09	46.96	43.83	GNT30-15G
	24	1.25A	—	—		A31018	A31019	A9982 (Tool)	—	—	—	—	271-2332-ND	50.09	46.96	43.83	GNT30-24G
	28	1.07A	—	—		A31018	A31019	A9982 (Tool)	—	—	—	—	271-2333-ND	48.16	45.15	42.14	GNT30-28G
	48	0.625A	—	—		A31018	A31019	A9982 (Tool)	—	—	—	—	271-2334-ND	48.16	45.15	42.14	GNT30-48G
60	12	4.2A	—	—	4.0 x 2.0 x 0.97 (101.60 x 50.80 x 24.64)	A19950	A19952	A31396	—	—	—	—	271-2374-ND	66.41	61.31	56.93	GNT60-12G
	15	4.0A	—	—		A19950	A19952	A31396	—	—	—	—	271-2375-ND	66.41	61.31	56.93	GNT60-15G
	24	2.1A	—	—		A19950	A19952	A31396	—	—	—	—	271-2376-ND	66.41	61.31	56.93	GNT60-24G
200	12	12.5A	16.7A	—	5.0 x 3.0 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2760CT	WM18878	WM17406	A19490	A19520	271-2545-ND	156.60	144.55	134.24	GNT212G
	15	10.0A	13.3A	—		WM2101	WM2104	WM2760CT	WM18878	WM17406	A19490	A19520	271-2546-ND	156.60	144.55	134.24	GNT215G
	24	6.3A	8.3A	—		WM2101	WM2104	WM2760CT	WM18878	WM17406	A19490	A19520	271-2547-ND	156.60	144.55	134.24	GNT224G
	48	2.9A	4.2A	—		WM2101	WM2104	WM2760CT	WM18878	WM17406	A19490	A19520	271-2549-ND	156.60	144.55	134.24	GNT248G
GPM Series — RoHS Compliant																	
40	24	1.7A	—	—	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A31395CT	—	—	—	—	271-2642-ND✔	92.82	87.02	81.22	GPM40-24G
41	12	3.3A	—	0.03	4.00 x 2.00 x 1.50 (101.60 x 50.80 x 38.10)	A19950	A19952	A31395CT	—	—	—	—	271-2674-ND✔	56.88	53.33	49.77	GPM41-12G
55	12	4.7A	—	—	6.3 x 3.94 x 1.68 (160.00 x 100.00 x 42.7)	WM17401	WM17402	WM17403	—	—	—	—	271-2352-ND	128.90	118.98	110.49	GPM55-12G
80	12	6.7A	9.2A	—	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	A19953	A28761	A31395CT	—	—	—	—	271-2643-ND✔	170.18	159.54	148.91	GPM80-12G
	24	3.4A	4.6A	—		A19953	A28761	A31395CT	—	—	—	—	271-2644-ND✔	170.18	159.54	148.91	GPM80-24G
GLM Series																	
50	5.1	8A	—	0.4	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	—	—	—	—	271-2666-ND◆ ✔	58.86	55.19	51.51	GLM50-5G
	12	4.2A	—	0.2		A19951	A19954	A19990	—	—	—	—	271-2667-ND◆ ✔	58.86	55.19	51.51	GLM50-12G
	15	3.3A	—	0.16		A19951	A19954	A19990	—	—	—	—	271-2668-ND◆ ✔	58.86	55.19	51.51	GLM50-15G
	24	2.1A	—	0.1		A19951	A19954	A19990	—	—	—	—	271-2669-ND◆ ✔	58.86	55.19	51.51	GLM50-24G
	28	1.8A	—	0.09		A19951	A19954	A19990	—	—	—	—	271-2670-ND◆ ✔	58.86	55.19	51.51	GLM50-28G
65	12	5.5A	—	—	5.00 x 3.00 x 1.06 (127.00 x 76.20 x 26.9)	A19951	A19954	A19990	—	—	—	—	271-2662-ND◆ ✔	83.42	78.21	73.00	GLM65-12G
	15	4.3A	—	—		A19951	A19954	A19990	—	—	—	—	271-2663-ND◆ ✔	83.42	78.21	73.00	GLM65-15G
	24	2.7A	—	—		A19951	A19954	A19990	—	—	—	—	271-2161-ND	86.90	80.22	74.49	GLM65-24
	24	2.7A	—	—		A19951	A19954	A19990	—	—	—	—	271-2664-ND◆ ✔	83.42	78.21	73.00	GLM65-24G
	28	2.3A	—	—		A19951	A19954	A19990	—	—	—	—	271-2162-ND	86.90	80.22	74.49	GLM65-28
	28	2.3A	—	—		A19951	A19954	A19990	—	—	—	—	271-2665-ND◆ ✔	83.42	78.21	73.00	GLM65-28G
75	12	6.3A	9.1A	—	5.75 x 3.4 x 1.56 (146.05 x 86.36 x 39.62)	A19959	A19957	A19990	—	—	—	—	271-2535-ND◆	106.30	98.12	91.11	GLM75-12G
	15	5A	7.3A	—		A19959	A19957	A19990	—	—	—	—	271-2536-ND◆	106.30	98.12	91.11	GLM75-15G
	24	3.1A	4.6A	—		A19959	A19957	A19990	—	—	—	—	271-2537-ND◆	106.30	98.12	91.11	GLM75-24G
	28	2.7A	4A	—		A19959	A19957	A19990	—	—	—	—	271-2538-ND◆	106.30	98.12	91.11	GLM75-28G
GPFM Series																	
115	5.1	12A	20A	—	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	—	—	271-2158-ND	135.72	125.28	116.33	GPFM115-5
	5.1	12A	20A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2656-ND◆ ✔	130.29	122.15	114.01	GPFM115-5G
	12	6.7A	9.6A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2657-ND◆ ✔	130.29	122.15	114.01	GPFM115-12G
	15	5.3A	7.7A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2658-ND◆ ✔	130.29	122.15	114.01	GPFM115-15G
	24	3.3A	4.8A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2659-ND◆ ✔	130.29	122.15	114.01	GPFM115-24G
	28	2.9A	4.1A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2156-ND	135.72	125.28	116.33	GPFM115-28
	28	2.9A	4.1A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2660-ND◆ ✔	130.29	122.15	114.01	GPFM115-28G
	48	1.7A	2.4A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2157-ND	135.72	125.28	116.33	GPFM115-48
	48	1.7A	2.4A	—		A19953	A19956	A19990	A19492	A19520	—	—	271-2661-ND◆ ✔	130.29	122.15	114.01	GPFM115-48G

✔ NEW! **◆ RoHS Compliant**

(Continued)

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Medical Global Switchers

Single Output Medical *(Cont.)*

Total Power Watts	Voltage	Convection Cooled Current	Airflow Current	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors							Digi-Key Part No.	Price Each			Condor Part No.
						Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Fan Outlet	Fan Contacts		1	10	25	
250	12	15A	21A	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	—	—	271-2147-ND	340.79	314.57	292.11	GPFM250-12
250	12	15A	21A	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	—	—	271-2651-ND◆ ✔	327.15	306.71	286.26	GPFM250-12G
	15	12A	16.7A	—		A19953	A19956	A19990	—	—	—	—	271-2652-ND◆ ✔	327.15	306.71	286.26	GPFM250-15G
	24	7.5A	10.5A	—		A19953	A19956	A19990	—	—	—	—	271-2653-ND◆ ✔	327.15	306.71	286.26	GPFM250-24G
	28	6.5A	9A	—		A19953	A19956	A19990	—	—	—	—	271-2654-ND◆ ✔	327.15	306.71	286.26	GPFM250-28G
	48	3.8A	5.3A	—		A19953	A19956	A19990	—	—	—	—	271-2655-ND◆ ✔	327.15	306.71	286.26	GPFM250-48G
Cover with Fan for GPFM250 Series, 8.00" x 5.00" x 1.81" (203.20mm x 127.00m x 45.97mm)													271-2299-ND◆	36.46	—	—	09-250CFG
GLD Series — RoHS Compliant																	
150	12	12.5A	15A	—	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	WM18436	WM3703	WM5959	A19494	A19490	—	—	271-2327-ND	294.79	272.11	252.67	GLD150-12G
	15	10A	12A	—		WM18436	WM3703	WM5959	A19494	A19490	—	—	271-2328-ND	294.79	272.11	252.67	GLD150-15G
	24	6.2A	7.5A	—		WM18436	WM3703	WM5959	A19494	A19490	—	—	271-2329-ND	294.79	272.11	252.67	GLD150-24G
GPMP Series																	
600	24	25A	27A	—	11.18 x 4.85 x 2.48 (283.98 x 123.19 x 63.0)	—	—	—	—	—	—	—	271-2236-ND	761.80	703.20	652.97	GPMP600-24
Gem600 — RoHS Compliant																	
600	24	25A	—	—	11.81 x 5.0 x 2.79 (300 x 127 x 70.9)	—	—	—	—	—	—	—	271-2623-ND	284.82	262.92	244.13	GEM600-24G
	48	12.5A	—	—		—	—	—	—	—	—	—	271-2624-ND	284.82	262.92	244.13	GEM600-48G
MINT Series — RoHS Compliant																	
22	5	4.40A	—	—	3.5 x 2.0 x 0.674 (88.90 x 50.8 x 17.12)	WM17405	WM17405	WM17406	—	—	—	—	271-2639-ND	32.37	30.35	28.33	MINT1022A0505I01
	12	1.83A	—	—		WM17405	WM17405	WM17406	—	—	—	—	271-2640-ND	32.37	30.35	28.33	MINT1022A1205I01
	24	0.92A	—	—		WM17405	WM17405	WM17406	—	—	—	—	271-2641-ND	32.37	30.35	28.33	MINT1022A2405I01
65	12	5.25A	—	—	4.00 x 2.00 x 1.02 (101.60 x 50.80 x 26.0)	WM2101	WM2102	WM2300CT	—	—	—	—	271-2629-ND	30.74	28.82	26.90	MINT1065A1275C01
	15	4.33A	—	—		WM2101	WM2102	WM2300CT	—	—	—	—	271-2630-ND	30.74	28.82	26.90	MINT1065A1575C01
	18	3.50A	—	—		WM2101	WM2102	WM2300CT	—	—	—	—	271-2631-ND	30.74	28.82	26.90	MINT1065A1875C01
	24	2.70A	—	—		WM2101	WM2102	WM2300CT	—	—	—	—	271-2632-ND	30.74	28.82	26.90	MINT1065A2475C01
	48	1.35A	—	—		WM2101	WM2102	WM2300CT	—	—	—	—	271-2633-ND	30.74	28.82	26.90	MINT1065A4875C01
110	12	7.5A	—	—	5.00 x 3.00 x 1.27 (127.0 x 76.2 x 32.23)	A19951	A19956	A31396	—	—	—	—	271-2634-ND	54.53	50.34	46.74	MINT1110A1208K01
	15	6.5A	—	—		A19951	A19956	A31396	—	—	—	—	271-2635-ND	54.53	50.34	46.74	MINT1110A1508K01
	18	5.8A	—	—		A19951	A19956	A31396	—	—	—	—	271-2636-ND	54.53	50.34	46.74	MINT1110A1808K01
	24	4.6A	—	—		A19951	A19956	A31396	—	—	—	—	271-2637-ND	54.53	50.34	46.74	MINT1110A2408K01

✔ ***NEW!*** ◆ *RoHS Compliant*

Multiple Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Output 4	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
GLM Series — RoHS Compliant														
50	+5.1V @ 4A	+12V @ 2.5A	-12V @ 0.2A	—	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	271-2671-ND✔	58.86	55.19	51.51	48.94	GLM50AG
	+5.1V @ 4A	+15V @ 2.5A	-15V @ 0.2A	—		A19951	A19954	A19990	271-2672-ND✔	58.86	55.19	51.51	48.94	GLM50BG
	+5.1V @ 4A	+24V @ 1.5A	-12V @ 0.2A	—		A19951	A19954	A19990	271-2673-ND✔	58.86	55.19	51.51	48.94	GLM50DG
75/110	5.1V @ 8.0A 5.1V @ 10.0A	24V @ 2.5A 24V @ 2.5A	-12V @ 1A -12V @ 1A	12V @ 2.5A 12V @ 3.0A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A31398CT	271-2541-ND	108.80	100.43	93.26	87.04	GLM75DG
	5.1V @ 8.0A 5.1V @ 10.0A	24V @ 2.5A 24V @ 2.5A	-15V @ 1A -15V @ 1A	15V @ 2.5A 15V @ 3.0A		A19953	A28761	A31398CT	271-2542-ND	108.80	100.43	93.26	87.04	GLM75EG
	5.1V @ 8.0A 5.1V @ 10.0A	24V @ 4.0A 24V @ 4.0A	-12V @ 1A -12V @ 1A	12V @ 2.5A 12V @ 3.0A		A19953	A28761	A31398CT	271-2544-ND	108.80	100.43	93.26	87.04	GLM75PG
GPM Series														
40	+5.1V @ 4.0A	+12V @ 2.0A (3pk)	-12V @ 0.4A	—	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	WM2123	WM2104	WM17403	271-2645-ND◆ ✔	88.18	82.67	77.16	73.30	GPM40AG
	+5.1V @ 4.0A	+15V @ 2.0A (3pk)	-15V @ 0.4A	—		WM2123	WM2104	WM17403	271-1040-ND	96.68	89.25	82.87	77.35	GPM40B
	+5.1V @ 4.0A	+15V @ 2.0A (3pk)	-15V @ 0.4A	—		WM2123	WM2104	WM17403	271-2646-ND◆ ✔	92.82	87.02	81.22	77.16	GPM40BG
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	+12V @ 1.0A	-12V @ 1.0A	6.30 x 3.94 x 1.68 (160.02 x 100.08 x 42.67)	WM17401	WM17402	WM17403	271-2353-ND◆	128.90	118.98	110.49	103.12	GPM55AG
	+5V @ 6.0A	+12V @ 3.0A (5pk)	-5V @ 1.0A	-12V @ 1.0A		WM17401	WM17402	WM17403	271-2354-ND◆	128.90	118.98	110.49	103.12	GPM55BG
	+5V @ 6.0A	+15V @ 3.0A (5pk)	-5V @ 1.0A	-15V @ 1.0A		WM17401	WM17402	WM17403	271-2355-ND◆	128.90	118.98	110.49	103.12	GPM55CG
	+5V @ 6.0A	+24V @ 1.5A (2pk)	+12V @ 1.0A	-12V @ 1.0A		WM17401	WM17402	WM17403	271-2356-ND◆	128.90	118.98	110.49	103.12	GPM55DG
	+5V @ 6.0A	+24V @ 1.5A (2pk)	+15V @ 1.0A	-15V @ 1.0A		WM17401	WM17402	WM17403	271-2357-ND◆	128.90	118.98	110.49	103.12	GPM55EG
80/110	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM1910	WM17403	271-1046-ND	177.27	163.63	151.94	141.81	GPM80A
	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A		WM2103	WM1910	WM17403	271-2647-ND◆ ✔	170.18	159.54	148.91	141.46	GPM80AG
	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A		WM2103	WM1910	WM17403	271-1048-ND	177.27	163.63	151.94	141.81	GPM80C
	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A		WM2103	WM1910	WM17403	271-2648-ND◆ ✔	170.18	159.54	148.91	141.46	GPM80CG
	+5V @ 12.0A	+24V @ 2.0A (4pk)	-15V @ 1.0A	+15V @ 1.0A		WM2103	WM1910	WM17403	271-2649-ND◆ ✔	170.18	159.54	148.91	141.46	GPM80EG
	+5V @ 12.0A	+24V @ 3.5A (4.5pk)	-12V @ 1.0A	+12V @ 2.0A		WM2103	WM1910	WM17403	271-2650-ND◆ ✔	170.18	159.54	148.91	141.46	GPM80PG
MINT Series Terminal Block — RoHS Compliant														
270	5V @ 200mA	24V @ 11.25A	—	—	7.17 x 3.35 x 1.17 (182.12 x 85.09 x 29.72)	—	—	—	271-2638-ND	116.46	109.19	101.91	96.82	MINT2270A1976E01

✔ ***NEW!*** ◆ *RoHS Compliant*

Manufacturers of the following product brands: CONDOR AULT

Linear Medical Power Supplies

World Class Medical Linears

Features: • 19 Models (single, dual and triple output) • Approved to UL 544, IEC 601 and CSA 234 L3 • 3 power levels (5 to 92 watts) • Medical leakage current does not exceed 10µA • 8-Hour burn-in with cycling • Full 3-year warranty

World Wide AC Input Ranges: • AC Input: 110/120/220/240VAC, 47-63Hz • OVP on all 5V outputs • Meets EMI per FCC/VDE B

Industry Standard Packaging: • Hermetically sealed power transistors and ICs • MTFB 200,000+ hours per mil handbook 217D

Single Output

Output	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
			1	10	25	50	
5V@1.0A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1018-ND	63.03	58.18	54.03	50.43	ML5-1-OV-A
5V@3.0A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1006-ND	75.95	70.11	65.10	60.76	MB5-3-OV-A
12V@1.7A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1002-ND	75.95	70.11	65.10	60.76	MB12-1.7-A
24V@1.2A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1004-ND	75.95	70.11	65.10	60.76	MB24-1.2-A
24V@2.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1011-ND	96.95	89.49	83.10	77.56	MC24-2.4-A
24V@4.8A	9.00 x 4.86 x 3.30 (228.60 x 123.44 x 83.82)	271-1015-ND	150.26	138.71	128.80	120.21	MD24-4.8-A

Multiple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
					1	10	25	50	
Dual Output									
15V@0.8A	–15V@0.8A	—	6.50 x 4.00 x 2.25 (165.10 x 101.60 x 57.15)	271-1000-ND	85.64	79.05	73.41	68.51	MAA15-0.8-A
15V@3.0A	–15V@3.0A	—	9.38 x 4.88 x 3.30 (238.25 x 123.95 x 83.82)	271-1014-ND	164.79	152.12	141.25	131.83	MCC15-3-A
Triple Output									
5V@3.0A	12/15V@1.0/0.8A	–12/15V@1.0/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	271-1007-ND	142.18	131.25	121.87	113.75	MBAA40W-A

Linear Power Supplies

RoHS COMPLIANT

FEATURES: • Worldwide AC input ranges and safety standards • Industry standard packages • UL/CSA TUV/IEC approved - 68 models to UL1950; CSA C22.2 No. 234 L3; TUV certified to IEC950 • Capacitors have highest CV and ripple current ratings • MTBF 200,000+ hours per Mil Handbk 217D (most units) • All electrolytic caps rated at 105°C • Transformer insulation meets Class F (155°C) • Exceed FCC and CISPR22 Class B conducted emissions • CE marked to LVD

GENERAL SPECIFICATIONS: • **AC Input:** 100/120/240VAC: +10%, -13%; 215VAC: +12%, -11%; 47 ~ 63Hz. Tolerance for 230VAC operation is +15%, -10%. Derate output current 10% for 50Hz operation

• **DC Output:** Adjustment range ±5% minimum except HA series • **Line Regulation:** ±0.05% for a 10% change • **Load Regulation:** ±0.05% for a 50% load change • **Output Ripple:** 3mV +0.05% of output voltage, peak to peak maximum. All "3-terminal regulator" outputs: 3mV +0.2% peak to peak maximum • **Transient Response:** <50 microseconds for 50% load change • **Short Circuit Protection:** Automatic current limit/foldback • **Overvoltage Protection:** Built-in on all 5V models, set at 6.2V ±0.4V. Other models use optional over voltage protection • **Stability**: ±0.05% for 24 hours after warmup • **Temperature Rating:** 0°C ~ 50°C full rated, derated linearly to 40% at 70°C • **Temperature Coefficient:** ±0.01%/°C maximum • **Logic Inhibit and Current-Share:** F Models

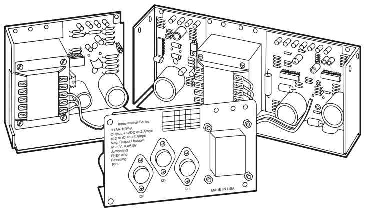

International+ Series Single Output

Output	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each					Condor Part No.
				1	10	25	50	100	
5V@1.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2248-ND	45.18	41.70	38.72	36.14	33.88	HA5-1.5-OV-A+G
5V@3A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2253-ND	52.73	48.68	45.20	42.19	39.55	HB5-3-OV-A+G
5V@6A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2258-ND	88.07	81.29	75.49	70.46	66.05	HC5-6-OV-A+G
5V@9A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2269-ND	117.21	108.19	100.47	93.77	87.91	HN5-9-OV-A+G
5V@12A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2262-ND	135.65	125.22	116.27	108.52	101.74	HD5-12-OV-A+G
12V@3.4A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2254-ND	79.09	73.00	67.79	63.27	59.32	HC12-3.4-A+G
12V@5.1A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2267-ND	111.41	102.84	95.49	89.13	83.56	HN12-5.1-A+G
12V@10.2A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2263-ND*	177.02	163.40	151.73	141.61	132.76	HE12-10.2-A+G
15V@0.9A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2246-ND	45.18	41.70	38.72	36.14	33.88	HA15-0.9-A+G
15V@3A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2255-ND	79.09	73.00	67.79	63.27	59.32	HC15-3-A+G
15V@6A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2259-ND	127.57	117.76	109.35	102.06	95.68	HD15-6-A+G
15V@9A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2264-ND*	177.02	163.40	151.73	141.61	132.76	HE15-9-A+G
24V@0.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2247-ND	45.18	41.70	38.72	36.14	33.88	HA24-0.5-A+G
24V@1.2A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2250-ND	52.73	48.68	45.20	42.19	39.55	HB24-1.2-A+G
24V@2.4A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2256-ND	79.09	73.00	67.79	63.27	59.32	HC24-2.4-A+G
24V@3.6A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2268-ND	111.41	102.84	95.49	89.13	83.56	HN24-3.6-A+G
24V@4.8A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2260-ND	127.57	117.76	109.35	102.06	95.68	HD24-4.8-A+G
24V@7.2A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2265-ND	177.02	163.40	151.73	141.61	132.76	HE24-7.2-A+G
24V@12A	16.75 x 4.88 x 3.50 (425.45 x 123.95 x 88.90)	18 (8.16)	271-2270-ND	285.35	263.40	244.59	228.28	214.01	F24-12-A+G
28V@1A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2251-ND	52.73	48.68	45.20	42.19	39.55	HB28-1-A+G
28V@2A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2257-ND	79.09	73.00	67.79	63.27	59.32	HC28-2-A+G
28V@4A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2261-ND	127.57	117.76	109.35	102.06	95.68	HD28-4-A+G
48V@0.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2252-ND	56.48	52.14	48.41	45.18	42.36	HB48-0.5-A+G
48V@6A	16.75 x 4.88 x 3.50 (425.45 x 123.95 x 88.90)	18 (8.16)	271-2271-ND*	307.88	284.19	263.89	246.30	230.91	F48-6-A+G

International+ Series Dual Output

Output 1	Output 2	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each				Condor Part No.
					1	10	25	50	
5V@1.5A	5V@1.5A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2275-ND	79.09	73.00	67.79	63.27	HAA5-1.5-OV-A+G
5V@2A	9V ~ 15V@0.5A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2276-ND	79.09	73.00	67.79	63.27	HAA512-A+G
5V@3A	9V ~ 15V@1.2A	7.00 x 4.88 x 2.50 (177.80 x 123.95 x 63.50)	4 (1.81)	271-2282-ND	96.88	89.43	83.04	77.51	HBB512-A+G
5V@6A	9V ~ 15V@2.5A	9.38 x 4.88 x 2.75 (238.25 x 123.95 x 69.85)	7 (3.18)	271-2286-ND*	158.09	145.93	135.51	126.47	HCC512-A+G
12V@0.4A	-12V@0.4A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2277-ND	59.54	54.96	51.03	47.63	HAD12-0.4-A+G
15V@0.4A	-15V@0.4A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2278-ND	59.54	54.96	51.03	47.63	HAD15-0.4-A+G
15V@0.8A	-15V@0.8A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2273-ND	69.40	64.06	59.48	55.52	HAA15-0.8-A+G
15V@1.5A	-15V@1.5A	7.00 x 4.88 x 2.50 (177.80 x 123.95 x 63.50)	4 (1.81)	271-2280-ND	88.78	81.95	76.10	71.02	HBB15-1.5-A+G
15V@3A	-15V@3A	9.38 x 4.88 x 2.75 (238.25 x 123.95 x 69.85)	7 (3.18)	271-2285-ND	140.49	129.68	120.42	112.39	HCC15-3-A+G
15V@5V	-15V@5V	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2288-ND	207.56	191.59	177.91	166.05	HDD15-5-A+G
18V ~ 24V@0.4A/0.6A	-18V ~ -24V@0.4A/0.6A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2274-ND	67.81	62.59	58.12	54.24	HAA24-0.6-A+G

International+ Series Triple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each				Condor Part No.
						1	10	25	50	
5V@2A	12V ~ 15V@0.4/0.4A	-12V ~ -15V@0.4/0.4A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2289-ND†	87.19	80.48	74.73	69.75	HTAA-16W-A+G
5V@3A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	10.25 x 4.00 x 2.50 (260.35 x 101.60 x 63.50)	5 (2.27)	271-2279-ND†	121.10	111.79	103.80	96.88	HBAA40W-A+G
5V@6A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2283-ND†	147.94	136.56	126.81	118.35	HCAA60W-A+G
5V@6A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	8 (3.63)	271-2284-ND†	169.29	156.27	145.11	135.43	HCBB75W-A+G
5V@12A	12V ~ 15V@3.4/3A	-12V ~ -15V@3.4/3A	15.00 x 4.88 x 3.75 (381.0 x 123.95 x 95.25)	12 (5.44)	271-2287-ND*	248.74	229.60	213.20	198.99	HDCC150W-A+G

* Requires fan cooling. † No. 3 output usable at -5V, rate at 1/2 of 15V current rating.

Manufacturers of the following product brands: CONDOR AULT

Switch Mode DC Power Supplies

The standard version power supply for data processing and control applications.

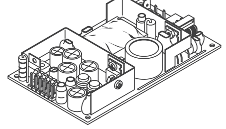

General Features: • Cost Effective Power Source • 2 Year Warranty - 100% burn-in, test and inspection **Safety Specifications:** • For safety ratings and certifications, please see data sheet for specified series **General Specifications:** • **AC Input:** 90 ~ 264VAC, 47 ~ 63Hz single phase (GPC41, GPFC110 and GPFC160 Series: 85 ~ 264VAC, 47 ~ 63Hz single phase; GNT 400 Series: 80 ~ 270VAC, 45 ~ 65Hz) • **Overload Protection:** Fully protected against short circuit and output overload • **Temperature Rating:** 0°C ~ 50°C full rated output power and 0°C ~ 70°C for GNT 400 Series • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B and EN55022 Class B (GPFC110 in compliance to CISPR22, FCC Class B) • **Remote Sense:** GPFC110 and GPFC160 Series only • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reverse output

Watt-age	Volt-age	Min Load (A)	Current – Amps		I Peak (A)	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
			A	B			Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
GSC20 Series - Commercial Switcher																	
20	5.1	—	3.8	—	—	3.50 x 2.00 x 0.71 (88.90 x 50.80 x 18.03)	WM17405	WM17405	WM17406	—	—	271-2362-ND	63.25	58.38	54.21	50.60	GSC20-5G
	12	—	1.7	—	—		WM17405	WM17405	WM17406	—	—	271-2358-ND	63.25	58.38	54.21	50.60	GSC20-12G
	15	—	1.4	—	—		WM17405	WM17405	WM17406	—	—	271-2359-ND	63.25	58.38	54.21	50.60	GSC20-15G
	24	—	0.85	—	—		WM17405	WM17405	WM17406	—	—	271-2360-ND	63.25	58.38	54.21	50.60	GSC20-24G
	28	—	0.7	—	—		WM17405	WM17405	WM17406	—	—	271-2361-ND	63.25	58.38	54.21	50.60	GSC20-28G
Chassis and Cover for GSC20 Series, 3.80" x 2.36" x 1.06" (96.52mm x 59.94mm x 26.92mm)												271-2293-ND	19.14	—	—	—	08-30466-020WG
Single Output - GECA20 Series																	
20	5.1	—	4.0	—	—	3.5 x 2.00 x 0.85 (88.9 x 50.80 x 21.59)	WM2101	WM2102	WM2302	—	—	271-2495-ND	16.00	14.77	13.71	12.80	GECA20-5G
	12	—	1.67	—	—		WM2101	WM2102	WM2302	—	—	271-2496-ND	16.00	14.77	13.71	12.80	GECA20-12G
	15	—	1.34	—	—		WM2101	WM2102	WM2302	—	—	271-2497-ND	16.00	14.77	13.71	12.80	GECA20-15G
	24	—	0.84	—	—		WM2101	WM2102	WM2302	—	—	271-2498-ND	16.00	14.77	13.71	12.80	GECA20-24G
Triple Output - GSC25 Series																	
25	5.1 12 -12	0.25 — —	2.5 1.5 0.2	— — —	— — —	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-2363-ND	54.20	50.03	46.46	43.36	GSC25AG
	5.1 24 -12	0.25 — —	2.5 1.0 0.2	— — —	— — —	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-2364-ND	54.20	50.03	46.46	43.36	GSC25DG
Chassis and Cover for GSC25 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.10mm)												271-2290-ND	21.08	—	—	—	08-30466-0025G
Single Output - GECA40 Series																	
40	12	—	3.3	—	—	5.00 x 3.00 x 1.25 (127 x 76.2 x 31.75)	WM2101	WM2104	WM2302	—	—	271-2528-ND	20.33	18.77	17.43	16.27	GECA40-12G
	24	—	1.7	—	—		WM2101	WM2104	WM2302	—	—	271-2530-ND	20.33	18.77	17.43	16.27	GECA40-24G
	5	0.35	3.5	—	—		WM2101	WM2104	WM2302	—	—	271-2531-ND	21.83	20.15	18.71	17.47	GECA40AG
Single Output - GPC41 Series																	
41	5.1	0.15	6.0	—	—	4.00 x 2.00 x 1.5 (101.60 x 50.80 x 38.10)	A19950	A19952	A19990	—	—	271-2338-ND	52.12	48.11	44.67	41.70	GPC41-5G
	12	0.03	3.3	—	—		A19950	A19952	A19990	—	—	271-2336-ND	52.12	48.11	44.67	41.70	GPC41-12G
	24	0.01	1.7	—	—		A19950	A19952	A19990	—	—	271-2337-ND	52.12	48.11	44.67	41.70	GPC41-24G
Cover for GPC41 Series, 3.32" x 1.98" x 1.66" (84.33mm x 50.29mm x 42.16mm)												271-2294-ND	21.01	—	—	—	08-30466-1041G
Single Output - GPC40 Series																	
40	5	—	8	—	10	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	A19490	A19520	271-2555-ND	85.06	78.52	72.91	68.05	GPC40-5G
	9	—	4.5	—	6		A19951	A19954	A19991	A19490	A19520	271-2556-ND	85.06	78.52	72.91	68.05	GPC40-9G
	12	—	3.3	—	4.2		A19951	A19954	A19991	A19490	A19520	271-2551-ND	85.06	78.52	72.91	68.05	GPC40-12G
Triple Output - GPC40 Series																	
40	5.1 12§Δ -12Δ	0.4 — —	4 2 0.4	— — —	5 3 0.7	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	A19490	A19520	271-2557-ND	85.06	78.52	72.91	68.05	GPC40AG
	5.1 15§Δ -15Δ	0.4 — —	4 2 0.4	— — —	5 3 0.7	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	—	—	271-2558-ND	85.06	78.52	72.91	68.05	GPC40BG
Single Output - GLC50 Series																	
50	3.3	—	8	—	—	4.25 x 2.5 x 1.25 (107.95 x 63.50 x 31.75)	WM2123	WM2126	WM17403	—	—	271-2307-ND	56.29	51.96	48.25	45.03	GLC50-3.3G
	5.1	—	8	—	—		WM2123	WM2126	WM17403	—	—	271-2308-ND	56.29	51.96	48.25	45.03	GLC50-5G
	12	—	4.2	—	—		WM2123	WM2126	WM17403	—	—	271-2305-ND	56.29	51.96	48.25	45.03	GLC50-12G
	24	—	2.1	—	—		WM2123	WM2126	WM17403	—	—	271-2306-ND	56.29	51.96	48.25	45.03	GLC50-24G
Triple Output - GLC50 Series																	
50	5.05 12 -12	0.8 0.8 0.8	4 2.5 0.2	— — —	— — —	4.25 x 2.5 x 1.25 (107.95 x 63.50 x 31.75)	WM2123	WM2126	WM17403	—	—	271-2309-ND	56.29	51.96	48.25	45.03	GLC50AG
	5.1 24 -12	0.8 0.8 0.8	4 1.5 0.2	— — —	— — —	4.25 x 2.5 x 1.25 (107.95 x 63.50 x 31.75)	WM2123	WM2126	WM17403	—	—	271-2310-ND	56.29	51.96	48.25	45.03	GLC50DG
Chassis and Cover for GLC50 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.10mm)												271-2292-ND	21.98	—	—	—	08-30466-0050G
GLC65 Series																	
65	5.1	—	11	—	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2316-ND	77.14	71.20	66.12	61.71	GLC65-5G
	12	—	5.5	—	—		A19951	A19954	A19990	—	—	271-2311-ND	77.14	71.20	66.12	61.71	GLC65-12G
	15	—	4.3	—	—		A19951	A19954	A19990	—	—	271-2312-ND	77.14	71.20	66.12	61.71	GLC65-15G
	24	—	2.7	—	—		A19951	A19954	A19990	—	—	271-2313-ND	77.14	71.20	66.12	61.71	GLC65-24G
	28	—	2.3	—	—		A19951	A19954	A19990	—	—	271-2314-ND	77.14	71.20	66.12	61.71	GLC65-28G
	48	—	1.35	—	—		A19951	A19954	A19990	—	—	271-2315-ND	77.14	71.20	66.12	61.71	GLC65-48G
	5.0 12 -12	— — —	7 3 2.5	9 5 4	— — —	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2317-ND	103.36	95.41	88.60	82.69	GLC65AG
	5.0 24 -12	— — —	7 1.5 2.5	9 2.5 4	— — —	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2318-ND	103.36	95.41	88.60	82.69	GLC65DG
	5.0 24 12	— — —	7 1.5 2.5	9 2.5 4	— — —	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2319-ND	103.36	95.41	88.60	82.69	GLC65EG
	5.0 3.3 12	— — —	5 4 2.5	8 5 4	— — —	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2320-ND	103.36	95.41	88.60	82.69	GLC65GG
	3.3 5.0 12	— — —	5 4 2.5	8 6 3	— — —	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2321-ND	103.36	95.41	88.60	82.69	GLC65HG

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits. † Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling. § To maintain these regulation conditions, the 5.1V must be at least 1/4 of V2 and not greater than 5 times the V2 current Δ Requires 5.1V to be adjusted within ±1% with at least a 0.4A load to maintain regulation on this output.

(Continued)

Switch Mode DC Power Supplies *(Cont.)*

Watt-age	Volt-age	Min Load (A)	Current – Amps		I Peak (A)	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
			A	B			Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
Single Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	5.1	—	13.7	19.6	19.6	5.75 x 3.40 x 1.56 (146.05 x 86.36 x 39.70)	WM2125	WM2129	WM17403	—	—	271-2324-ND	97.57	90.06	83.63	78.05	GLC75-5G
	12	—	6.3	9.1	9.1		WM2125	WM2129	WM17403	—	—	271-2322-ND	97.57	90.06	83.63	78.05	GLC75-12G
	24	—	3.1	4.6	4.6		WM2125	WM2129	WM17403	—	—	271-2323-ND	97.57	90.06	83.63	78.05	GLC75-24G
Chassis and Cover for GLC75 Single Output Series, 5.90" x 3.75" x 1.98" (149.86mm x 95.25mm x 50.29mm)												271-2295-ND	21.25	—	—	—	08-30466-2075G
Quad Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	5.1 12 -12 12*	1 0.5 — —	8 2.5 1 2.5	10 3 1 3	12 4 1.2 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-2325-ND	97.57	90.06	83.63	78.05	GLC75AG
	5.1 24 -12 12*	1 0.5 — —	8 2.5 1 2.5	10 2.5 1 3	12 4 1.2 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-2326-ND	97.57	90.06	83.63	78.05	GLC75DG
Single Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	12	—	6.3	9.1	9.5	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2300-ND	94.87	87.57	81.31	75.89	GLC110-12G
	24	—	3.2	4.6	5		A19953	A28761	A19990	—	—	271-2303-ND	94.87	87.57	81.31	75.89	GLC110-24G
Double Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	12 -12	—	6.3 2.5	9.1 3	9.5 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2301-ND	104.81	96.75	89.85	83.85	GLC110-212G
	15 -15	1 —	5 2.5	7.3 3	7.7 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2302-ND	104.81	96.75	89.84	83.85	GLC110-215G
	24 5	1 —	3.2 1.5	4.6 2	4.8 2.5	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2304-ND	104.81	96.75	89.84	83.85	GLC110-524G
Chassis and Cover for GLC75 and GLC110 Multiple Output Series, 7.30" x 4.50" x 2.10" (185.42mm x 114.30mm x 53.34mm)												271-2297-ND	21.25	—	—	—	08-30466-2175G
Single Output - GPFC110 Series																	
110	5.1	—	11	15	20	6.3 x 3.75 x 1.62 (160.02 x 95.25 x 41.15)	A19953	A19957	A19990	—	—	271-2344-ND	124.57	114.99	106.77	99.66	GPFC110-5G
	12	—	6.7	9.2	10		A19953	A19957	A19990	—	—	271-2339-ND	124.57	114.99	106.77	99.66	GPFC110-12G
	15	—	5.3	7.3	8		A19953	A19957	A19990	—	—	271-2340-ND	124.57	114.99	106.77	99.66	GPFC110-15G
	24	—	3.4	4.6	5		A19953	A19957	A19990	—	—	271-2341-ND	124.57	114.99	106.77	99.66	GPFC110-24G
	28	—	2.9	3.9	4.3		A19953	A19957	A19990	—	—	271-2342-ND	124.57	114.99	106.77	99.66	GPFC110-28G
	48	—	1.7	2.3	2.5		A19953	A19957	A19990	—	—	271-2343-ND	124.57	114.99	106.77	99.66	GPFC110-48G
Cover for GPFC110 Series, 6.30" x 3.75" x 1.75" (160.02mm x 95.25mm x 44.45mm)												271-2296-ND	21.25	—	—	—	08-30466-2110G
GPFC125 Series‡																	
125	5 12 12† -12	2A+V4 Current	9 4 2.5 0.3	16 7 4 1	— — — —	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2345-ND	239.75	221.31	205.50	191.80	GPFC125AG
	5 12 12† -5	2A+V4 Current	9 4 2.5 0.3	16 7 4 1	— — — —	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2346-ND	239.75	221.31	205.50	191.80	GPFC125BG
	5 24 12† -12	2A+V4 Current	9 3 2.5 0.3	16 4.5 4 1	— — — —	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2347-ND	239.75	221.31	205.50	191.80	GPFC125DG
	12† -12	2A+V4 Current	2.5 0.3	4 1	— —	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2348-ND	239.75	221.31	205.50	191.80	GPFC125GG
Single Output - GPFC160 Series																	
160	5.1	—	25	—	—	(177.80 x 114.30 x 42.93) 7.00 x 4.50 x 1.69	WM2125	WM17400	WM17403	WM2013	WM2200	271-2351-ND	245.66	226.77	210.57	196.53	GPFC160-5G
	12	—	11.7	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-2349-ND	245.66	226.77	210.57	196.53	GPFC160-12G
	24	—	5.8	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-2350-ND	245.66	226.77	210.57	196.53	GPFC160-24G
Cover with Fan for GPFC160 Series, 7.00" x 4.50" x 1.75" (177.80mm x 114.30mm x 44.45mm)												271-2298-ND	36.46	—	—	—	09-160CFG
Single Output - GNT 400 Series																	
400	12	—	25	33.3	33.3	4.00 x 7.00 x 1.50 (101.60 x 177.80 x 38.1)	A24114	—	A19991	—	—	271-2483-ND	244.05	225.28	209.19	195.24	GNT412ABG
	12	—	25	33.3	33.3		A24114	—	A19991	—	—	271-2484-ND	281.25	259.62	241.07	225.00	GNT412CBEG
	12	—	25	33.3	33.3		A24114	—	A19991	—	—	271-2485-ND	263.40	243.14	225.77	210.72	GNT412ABTG
	24	—	12.5	16.7	16.7		A24114	—	A19991	—	—	271-2486-ND	244.05	225.28	209.19	195.24	GNT424ABG
	24	—	12.5	16.7	16.7		A24114	—	A19991	—	—	271-2487-ND	281.25	259.62	241.07	225.00	GNT424CBEG
	24	—	12.5	16.7	16.7		A24114	—	A19991	—	—	271-2488-ND	263.40	243.14	225.77	210.72	GNT424ABTG
	28	—	10.7	14.3	14.3		A24114	—	A19991	—	—	271-2489-ND	244.05	225.28	209.19	195.24	GNT428ABG
	28	—	10.7	14.3	14.3		A24114	—	A19991	—	—	271-2490-ND	281.25	259.62	241.07	225.00	GNT428CBEG
	28	—	10.7	14.3	14.3		A24114	—	A19991	—	—	271-2491-ND	263.40	243.14	225.77	210.72	GNT428ABTG
	48	—	6.3	8.4	8.4		A24114	—	A19991	—	—	271-2492-ND	244.05	225.28	209.19	195.24	GNT448ABG
	48	—	6.3	8.4	8.4		A24114	—	A19991	—	—	271-2493-ND	281.25	259.62	241.07	225.00	GNT448CBEG
	48	—	6.3	8.4	8.4		A24114	—	A19991	—	—	271-2494-ND	263.40	243.14	225.77	210.72	GNT448ABTG

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits. † Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling. § To maintain these regulation conditions, the 5.1V must be at least 1/4 of V2 and not greater than 5 times the V2 current Δ Requires 5.1V to be adjusted within ±1% with at least a 0.4A load to maintain regulation on this output.

bel POWER PRODUCTS

Arrowhead Series Non-Isolated POL DC/DC Converters

Dim. in inch (mm)

Electrical Specifications:

- Operating Temperature: -40°C ~ 85°C
- Output Voltage Trim: Voltage set-point adjustment with use of a resistor (See data sheet)

Features:

- Over Current/Short Circuit Protection (OCP/SCP)

Note: All specifications are typical at 25°C, unless otherwise noted.

Fig. 1

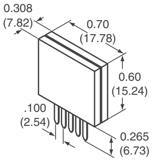

Fig. 2

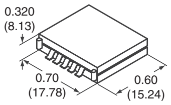

Fig.	Output Voltage (VDC)	Output Current Max. (Aout)	Input Voltage (VDC)	Features / Options Remote On/Off	Input Under Voltage Lock-out (UVLO)	Over-Voltage Protection (OVP)	Digi-Key Part No.	Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 200	Bel Part No.
Single Output Voltage													
1	5.0	1.5	3.0 ~ 3.6	—	—	X	507-1379-5-ND§	11.70	10.83	10.24	—	—	VRAH-02C50B0
Adjustable Output Voltage													
2	0.9 ~ 3.3	8	4.5 ~ 5.5	X	X	—	507-1377-1-ND†	13.90	12.86	12.17	—	—	SRAH-08B1A0R
Wide Range Input Voltage													
2	1.2	3	4.5 ~ 32	X	X	—	507-1373-5-ND	13.90	12.86	12.17	—	—	SRAH-03H1200
2	2.5	3	4.5 ~ 32	X	X	—	507-1374-5-ND	13.90	12.86	12.17	—	—	SRAH-03H2500
1	3.3	3	4.9 ~ 32	X	X	—	507-1380-5-ND	13.90	12.86	12.17	—	—	VRAH-03H3300
2	3.3	3	4.9 ~ 32	X	X	—	507-1375-1-ND†	13.90	12.86	12.17	507-1375-2-ND	2085.00	SRAH-03H330R
1	5	3	8 ~ 32	X	X	—	507-1381-5-ND	13.90	12.86	12.17	—	—	VRAH-03H5000
2	5	3	8 ~ 32	X	X	—	507-1376-1-ND†	13.90	12.86	12.17	507-1376-2-ND	2085.00	SRAH-03H500R

§ Burst/skip mode disabled † Cut Tape

Bobcat Series Non-Isolated POL DC/DC Converters

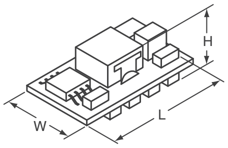

Electrical Specifications:

- Operating Temperature: -40°C ~ 85°C
- Output Voltage Trim: Voltage set-point adjustment with use of a resistor (See data sheet)

Features:

- Input under voltage lockout (ULVO)
- Over Current/Short Circuit Protection (OCP/SCP)
- Output voltage sequencing — These modules include a sequencing feature that enables users to implement various types of output voltage sequencing in an application. This is accomplished via an additional sequencing pin. When the sequencing feature is not used, tie the SEQ pin to the input voltage.

Note: All specifications are typical at 25°C, unless otherwise noted.

Output Power Max. (W)	Output Voltage (VDC)	Output Current Max. (Aout)	Input Voltage Range (VDC)	Features / Options Remote Sense	Over Temp. Protection (OTP)	Dimensions Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
30	0.75 ~ 5	6	4.5 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1378-ND◆	11.70	10.83	10.24	SRBA-06E2ALG
30	0.75 ~ 5	6	8.3 ~ 14	—	X	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1163-ND	11.70	10.83	10.24	S7BA-06A2ALG
33	0.75 ~ 5.5	6	8.3 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1389-ND◆	11.70	10.83	10.24	SRBA-06A2A0G
50	0.75 ~ 5	10	8.3 ~ 14	X	X	1.3 (33.02)	0.53 (13.46)	0.315 (8)	507-1390-ND◆	15.00	13.88	13.13	SRBC-10A2A0G
80	0.75 ~ 5	16	8.3 ~ 14	X	X	1.3 (33.02)	0.53 (13.46)	0.315 (8)	507-1391-ND◆	17.90	16.56	15.67	SRBC-16A2A0G

◆ ***RoHS Compliant***

Non-Isolated POL DC/DC Converter

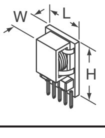

Features:

- Over current and short circuit protection (OCP/SCP)
- Remote on/off
- Input under voltage lockout (UVLO)

Specifications:

- Operating temperature range: 0°C ~ 70°C
- Output voltage trim (See data sheet)

Output Power Maximum (W)	Output Voltage (VDC)	Output Current Maximum (Aout)	Input Voltage (VDC)	Dimensions Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
50	.59 ~ 5.1	10	4.5 ~ 13.8	.41 (10.41)	.32 (8.13)	.65 (16.51)	507-1384-ND	9.50	8.79	8.32	VRAE-10E1A0G

power-one™
Changing the Shape of Power

Board-Mount DC-DC Converters

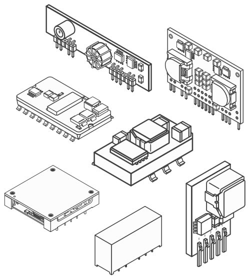

Analog and Digital DC-DC Conversion and Management Solutions for Distributed Power and Intermediate Bus Architectures
Power-One offers one of the industry's broadest ranges of high power density board-level DC-DC products: DPA bricks and IBA bus converters from 1/16 to 1/2, analog POL converters, and feature rich digital power solutions that seamlessly integrate power conversion and management. Industry-leading efficiencies, and advanced thermal-management techniques, increase current densities, reduce power consumption, and provide more power in elevated-temperature environments.

Isolated DC-DC Products — DPA Bricks, IBA Bus Converters, and Non-Bricks
Power-One's isolated DC-DC converters provide: High efficiencies and power densities, ultra-low profiles, wide-input voltage ranges, high input-transient withstand capabilities, and start-up into prebiased loads. DOSA compliant and dedicated bus-converter models are available.

Z-One® Digital Power Seamlessly Integrates POL Power Management and Conversion
Z-One Digital Power achieves an unprecedented level of power-system integration to enable reduced power system component counts, sophisticated power management capabilities, and improved reliability, cost, and power density.
Z-POL™ converters are available in hardware configurable and bus programmable versions. Wide input, and user-defined output, ranges decrease the number of models in inventory.
Z-Series Digital Power Managers can control up to 32 components, including up to four analog devices such as fans, VRMs, POLs, and linear regulators.

Analog POL Converters
These robustly-designed products are available with industry-standard form factors and trim equations. Other features include: High current densities, wide Vout adjustment ranges, and extended temperature range operation.

Output Voltage (V)	Output Current (A)	Input Voltage Range (VDC)	Digi-Key Part No.	Price Each				Power-One Part No.
				1	10	25	50	
Single Output								
3.3	0.9	18 ~ 75	179-2187-ND	60.00	55.00	50.00	45.00	NVS0.9EE-M6
5	0.7	18 ~ 75	179-2351-ND◆	51.84	47.52	43.20	38.88	NVS0.7EG-M6G
5	0.15	4.5 ~ 5.5	179-1068-ND	18.15	17.60	17.05	15.68	DSP1N5S5
7	0.14	4.5 ~ 5.5	179-1069-ND	18.15	17.60	17.05	15.68	DSP1N5S7
12	0.08	4.5 ~ 5.5	179-1070-ND	18.15	17.60	17.05	15.68	DSP1N5S12
14	0.07	4.5 ~ 5.5	179-1071-ND	18.15	17.60	17.05	15.68	DSP1N5S14
15	0.065	4.5 ~ 5.5	179-1072-ND	18.15	17.60	17.05	15.68	DSP1N5S15
17	0.06	4.5 ~ 5.5	179-1073-ND	18.15	17.60	17.05	15.68	DSP1N5S17
3.3	3.0	38 ~ 75	179-2359-ND◆	60.15	56.24	51.00	45.77	RNS03ZE-M6G
2.5	3.0	36 ~ 75	179-2192-ND	33.08	31.86	—	—	NDS03ZD-M6
3.3	3.0	36 ~ 75	179-2191-ND	33.08	31.86	—	—	NDS03ZE-M6
5	2.0	36 ~ 75	179-2190-ND	33.08	31.86	—	—	NDS02ZG-M6
1.2	3.0	4.5 ~ 5.5	179-2197-ND	15.93	15.34	—	—	SIS03VY
1.5	3.0	4.5 ~ 5.5	179-2193-ND	13.48	12.98	—	—	SIS03VA
2.5	3.0	4.5 ~ 5.5	179-2195-ND	13.48	12.98	—	—	SIS03VD
3.3	3.0	4.5 ~ 5.5	179-2196-ND	13.48	12.98	—	—	SIS03VE
5	4.0	36 ~ 75	179-2204-ND	53.00	48.00	44.00	40.00	RDS04ZG-M6
2.5	6.0	36 ~ 75	179-2202-ND	56.35	54.28	—	—	RFS06ZD-M6
1.5	7.0	4.5 ~ 5.5	179-2198-ND	15.86	15.34	—	—	SIS07VA
1.8	7.0	4.5 ~ 5.5	179-2199-ND	15.93	15.34	—	—	SIS07VB
2.5	7.0	4.5 ~ 5.5	179-2200-ND	15.93	15.34	—	—	SIS07VD
3.3	7.0	4.5 ~ 5.5	179-2201-ND	15.93	15.34	—	—	SIS07VE
5	1	20 ~ 60	179-1008-ND	92.66	88.87	85.07	81.91	DFA6U48S5
15	0.4	9 ~ 27	179-1007-ND	56.95	54.86	—	—	DFA6U12S15
5.2	1.2	3.5 ~ 16	179-1002-ND	44.88	44.00	43.12	42.24	DFC6U5S5.2
5	2	9 ~ 18	179-1011-ND	90.45	88.55	86.34	84.45	DFC10E12S5
5	2	18 ~ 36	179-1012-ND	90.45	88.55	86.34	84.45	DFC10E24S5
12	0.9	18 ~ 36	179-1016-ND	90.45	88.55	86.34	84.45	DFC10E24S12
15	0.7	18 ~ 36	179-1017-ND	90.45	88.55	86.34	84.45	DFC10E24S15
5	2	36 ~ 72	179-1013-ND	90.45	88.55	86.34	84.45	DFC10E48S5
12	11.0	36 ~ 75	179-2223-ND	52.80	51.70	50.60	49.50	QBC11ZH-NT
2.5	15.0	36 ~ 75	179-2225-ND	63.68	61.34	—	—	QLS15ZD-NT
5	20.0	36 ~ 75	179-2227-ND	93.38	89.96	—	—	QLS20ZG-NT
1.5	50.0	36 ~ 75	179-2234-ND	173.56	167.19	—	—	QHS50ZA-NT
1.8	40.0	36 ~ 75	179-2231-ND	157.78	151.99	—	—	QHS40ZB-NT
2.5	40.0	36 ~ 75	179-2232-ND	173.56	167.19	—	—	QHS40ZD-NT
3.3	40.0	36 ~ 75	179-2233-ND	98.00	94.40	—	—	QHS40ZE-NT
5	4	9 ~ 18	179-1033-ND	133.46	128.40	121.44	115.12	DFA20E12S5
5	4	18 ~ 36	179-1037-ND	133.46	128.40	121.44	115.12	DFA20E24S5
12	1	3.5 ~ 16	179-1054-ND	115.50	112.25	108.26	103.00	DGP12U5S12
5	3	18 ~ 36	179-2124-ND◆	83.37	79.64	74.75	71.31	LES015YG
5	3	36 ~ 75	179-2131-ND◆	57.38	56.25	55.13	54.00	LES015ZG-3N
12	1.25	18 ~ 36	179-2126-ND◆	83.38	79.64	74.75	71.31	LES015YH
1.8	40.0	36 ~ 75	179-2249-ND	178.00	94.40	—	—	HLS40ZB-NT
2.5	30.0	36 ~ 75	179-2246-ND	98.00	94.40	—	—	HLS30ZD-NT
3.3	30.0	36 ~ 75	179-2247-ND	107.80	103.84	—	—	HLS30ZE-NT
1.5	30.0	36 ~ 75	179-2218-ND	56.60	54.52	—	—	Q48T30015-NBB0
3.30	30.0	36 ~ 75	179-2221-ND	103.03	98.55	94.44	90.67	Q48T30033-NBB0
1.50	15.0	36 ~ 75	179-2213-ND	44.47	42.84	—	—	SQ48T15015-NBB0
1.80	15.0	36 ~ 75	179-2214-ND	44.47	42.84	—	—	SQ48T15018-NBB0
2.50	15.0	36 ~ 75	179-2215-ND	44.47	42.84	—	—	SQ48T15025-NBB0
5.0	10.0	36 ~ 75	179-2212-ND	75.76	72.46	69.44	66.67	SQ48T10050-NBB0
3.30	10.0	36 ~ 75	179-2360-ND◆	46.00	41.00	36.00	33.00	SSQE48T10033-NAB0G
3.30	20.0	36 ~ 75	179-2361-ND◆	54.35	48.92	43.48	40.22	SSQE48T20033-NABNG
3.30	15.0	36 ~ 75	179-2363-ND◆	48.00	43.00	38.00	35.00	SSQE48T15033-NAA0G
12	7	36 ~ 75	179-2420-ND◆✔	52.17	46.74	41.31	35.00	SSQE48T07120-NABNG
3.3	15	34 ~ 75	179-2143-ND	105.45	101.58	—	—	HBS050ZE-ANT
3.3	30	34 ~ 75	179-2153-ND	139.07	133.97	—	—	HBS100ZE-ANT
12	25.0	36 ~ 75	179-2239-ND	83.00	81.00	79.00	77.01	HBC25ZH-NT
12	8.30	34 ~ 75	179-2155-ND	139.07	133.97	—	—	HBS100ZH-ANT
3.3	15	36 ~ 75	179-2163-ND	156.90	151.14	—	—	QES050ZE-A
2.5	15	36 ~ 75	179-2168-ND	109.97	107.82	105.66	103.50	QBS038ZD-ANT
5	20	36 ~ 75	179-2173-ND	101.68	97.94	—	—	QBS100ZG-ANT
1.80	60.0	36 ~ 75	179-2243-ND	126.79	122.13	—	—	HHS60ZB-NT
2.50	60.0	36 ~ 75	179-2244-ND	126.79	122.13	—	—	HHS60ZD-NT
3.30	60.0	36 ~ 75	179-2245-ND	126.79	122.13	—	—	HHS60ZE-NT
2.5	6	3.0 ~ 3.6	179-2181-ND	26.95	25.96	—	—	SIP302.5LT
5	4	3.0 ~ 4.0	179-2185-ND	35.65	34.34	—	—	SIP305
2.1	6	4.5 ~ 5.5	179-2182-ND	35.65	34.34	—	—	SIP502.1LT
3.3	6	4.5 ~ 5.5	179-2184-ND	35.65	34.34	—	—	SIP503.3LT
Dual Output								
3.27/5.20	1.0/1.0	38 ~ 75	179-2208-ND	41.65	40.12	—	—	RND02ZGE-M6
±12	0.42	36 ~ 75	179-2207-ND	41.65	40.12	—	—	RND0.8ZHH-M6
±5	±0.85	9 ~ 36	179-1021-ND	90.45	88.55	86.34	84.45	DFC10U24D5
±12	±0.4	9 ~ 36	179-1022-ND	90.45	88.55	86.34	84.45	DFC10U24D12
±15	±0.32	9 ~ 36	179-1023-ND	90.45	88.55	86.34	84.45	DFC10U24D15
±15	±0.33	18 ~ 72	179-1026-ND	90.45	88.55	86.34	84.45	DFC10U48D15
±12	±0.85	9 ~ 18	179-1045-ND	133.46	128.40	121.44	115.12	DFA20E12D12
±15	±0.7	9 ~ 18	179-1046-ND	133.46	128.40	121.44	115.12	DFA20E12D15
±15	±0.7	18 ~ 36	179-1049-ND	133.46	128.40	121.44	115.12	DFA20E24D15
±5	±0.075	4.5 ~ 5.5	179-1074-ND	18.15	17.60	17.05	15.68	DSP1N5D5

◆ ***RoHS Compliant*** § 600mA ***Note:*** "N" in suffix of part number denotes Negative Logic; "3" in suffix of part number denotes Trim and Enable ***✔NEW!***

(Continued)

Board-Mount DC-DC Converters *(Cont.)*

Output Voltage (V)	Output Current (A)	Input Voltage Range (VDC)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
±12	±0.04	4.5 ~ 5.5	179-1076-ND	18.15	17.60	17.05	15.68	DSP1N5D12
±14	±0.035	4.5 ~ 5.5	179-1077-ND	18.15	17.60	17.05	15.68	DSP1N5D14
±15	±0.033	4.5 ~ 5.5	179-1078-ND	18.15	17.60	17.05	15.68	DSP1N5D15
±17	±0.030	4.5 ~ 5.5	179-1079-ND	18.15	17.60	17.05	15.68	DSP1N5D17
5.0/3.3	20/20	36 ~ 72	179-2240-ND	134.90	132.25	129.61	126.96	HHD20ZGE-N
5.0/3.3	8/12	34 ~ 75	179-2159-ND	155.35	149.65	—	—	HBD040ZGE-A
5.0/3.3	12/15	34 ~ 75	179-2161-ND	74.11	71.39	—	—	HBD060ZGE-A
1.80/2.50	15.0	36 ~ 75	179-2237-ND	60.64	58.41	—	—	QD48T018025-NBB0
1.80/3.30	15.0	36 ~ 75	179-2236-ND	60.64	58.41	—	—	QD48T018033-NBB0
3.30/.5.0	15.0	36 ~ 75	179-2238-ND	125.76	120.29	115.28	110.68	QD48T033050-NBB0
3.3/2.5	20/25	36 ~ 72	179-2175-ND	158.94	153.11	—	—	TQD085ZED-AN
5.0/3.3	20/25	36 ~ 72	179-2177-ND	180.99	174.35	—	—	TQD100ZGE-AN
Triple Output								
5 ±15	2.5 ±0.250	18 ~ 36	179-1062-ND§	135.36	130.30	124.92	118.29	DGP20E24T5/15

◆ ***RoHS Compliant*** § 600mA ***Note:*** "N" in suffix of part number denotes Negative Logic; "3" in suffix of part number denotes Trim and Enable

Z-One® Digital Power Hardware Configurable "No-Bus" POL Converters

The ZY Series is an intelligent, fully programmable step-down point-of-load DC-DC module integrating digital power conversion and power management. The ZY series completely eliminates the need for external components for sequencing, tracking, protection, monitoring, and reporting. **Features:** • Wide programmable output voltage range • Output voltage margining • Overcurrent and overtemperature protections • Overvoltage and undervoltage protections • Tracking during turn-on and turn-off with guaranteed slew rates • Programmable feedback loop compensation • Enable control • Flexible fault management and propagation

Output Voltage Range (V)	Output Current (A)	Input Voltage Range (VDC)	Digi-Key Part No.	Price Each 1	10	25	Tape & Reel‡ Pricing 50	Power-One Part No.
High Efficiency								
0.5 ~ 5.5	5	8 ~ 14	179-2398-ND	9.44	9.13	8.75	—	ZY2105G
0.5 ~ 5.5	10	8 ~ 14	179-2399-ND	11.16	10.79	10.34	—	ZY2110G
0.5 ~ 3.65	40	8 ~ 14	179-2400-ND	20.60	19.91	19.09	—	ZY2140G
0.5 ~ 2.75	60	8 ~ 14	179-2401-ND	25.75	24.89	23.86	—	ZY2160G
Ultra Wide Input								
0.5 ~ 5.5	7	3 ~ 14	179-2406-1-ND†	13.07	12.64	12.12	581.03	ZY1207HG-T3
0.5 ~ 5.5	15	3 ~ 14	179-2407-1-ND†	20.17	19.50	18.69	896.00	ZY1015G-T3
0.5 ~ 5.5	15	3 ~ 14	179-2408-1-ND†	20.17	19.50	18.69	896.00	ZY1115G-T3
0.5 ~ 5.5	20	3 ~ 14	179-2409-1-ND†	21.82	21.09	20.22	969.50	ZY1120G-T3

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Cut Tape

Z-One® Bus Programmable POL

Bus-Programmable POL Solutions provide a wide range of advantages, including: • Open architecture based on industry standard I²C interface • Extremely scalable - provides up to 32 programmable outputs • Significant reduction in the number of unique models in inventory • Reduced component count improves cost, reliability, and power density • GUI-driven configuration and simulation simplifies power system development, accelerating time to market • Digital Power Manager controls up to 32 digital POLs, and up to 4 third-party components • Fully-integrated solution eliminates component incompatibility

Output Voltage Range (V)	Output Current (A)	Input Voltage Range (VDC)	Digi-Key Part No.	Price Each 1	10	25	Tape & Reel‡ Pricing 50	Power-One Part No.
High Efficiency								
0.5 ~ 5.5	5	8 ~ 14	179-2402-ND	9.44	9.13	8.75	—	ZY8105G
0.5 ~ 5.5	10	8 ~ 14	179-2403-ND	11.16	10.79	10.34	—	ZY8110G
0.5 ~ 3.65	40	8 ~ 14	179-2404-ND	20.60	19.91	19.09	—	ZY8140G
0.5 ~ 2.75	60	8 ~ 14	179-2405-ND	25.75	24.89	23.86	—	ZY8160G
Ultra Wide Input								
0.5 ~ 5.5	7	3 ~ 14	179-2410-1-ND†	12.92	12.50	11.98	574.50	ZY7007LG-T3
0.5 ~ 5.5	10	3 ~ 13.2	179-2411-1-ND†	17.68	17.09	16.38	785.50	ZY7010LG-T3
0.5 ~ 5.5	15	3 ~ 13.2	179-2412-1-ND†	20.17	19.50	18.69	896.00	ZY7015LG-T3
0.5 ~ 5.5	15	3 ~ 13.2	179-2413-1-ND†	20.17	19.50	18.69	896.00	ZY7115LG-T3
0.5 ~ 5.5	20	3 ~ 13.2	179-2414-1-ND†	21.82	21.09	20.22	969.50	ZY7120LG-T3

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Cut Tape

Y-Series Analog POL Converters

Y-Series turnkey POL solutions are available in industry standard form factors that combine compatibility to established POL footprints and trim equations with enhanced features and performance. **Features:** • Extended input range • Start-up into pre-biased output • No minimum load required • Programmable output voltage via external resistor • Remote ON/OFF • High reliability, MTBF

Output Voltage Range (V)	Output Current (A)	Input Voltage Range (VDC)	Digi-Key Part No.	Price Each 1	10	25	Tape & Reel‡ Pricing	Power-One Part No.
0.7525 ~ 5.5	5	9.6 ~ 14	179-2365-1-ND†	8.48	8.12	7.78	2100.00/300	YM12S05-G
0.7525 ~ 3.63	5	3.0 ~ 5.5	179-2366-1-ND†	8.48	8.12	7.78	2100.00/300	YM05S05-G
0.7525 ~ 3.63	16	3.0 ~ 5.5	179-2367-1-ND†	14.39	13.77	13.19	2968.75/250	YS05S16-0G
0.7525 ~ 5.5	16	9.6 ~ 14	179-2368-1-ND†	14.39	13.77	13.19	2968.75/250	YS12S16-0G
0.6 ~ 1.98	60	5 ~ 13.8	179-2369-ND	27.00	26.00	25.00	—	YV09T60-0G
0.7525 ~ 3.63	10	3.0 ~ 5.5	179-2370-1-ND†	13.33	12.75	12.22	2805.00/255	YS05S10-0G
0.7525 ~ 5.5	10	9.6 ~ 14	179-2371-1-ND†	13.33	12.75	12.22	2750.00/250	YS12S10-0G
0.8 ~ 5.5	25	10 ~ 14	179-2372-ND	23.00	22.25	—	—	YV12T25-0G
0.59 ~ 5.1	3	4.5 ~ 13.8	179-2373-ND	5.95	5.75	—	—	YEV09T03-0G
0.59 ~ 5.1	6	4.5 ~ 13.8	179-2374-ND	6.25	6.00	—	—	YEV09T06-0G
0.59 ~ 5.1	10	4.5 ~ 13.8	179-2375-ND	11.20	10.80	—	—	YEV09T10-0G
0.7525 ~ 5.5	5	9.6 ~ 14	179-2376-ND	9.85	9.42	9.03	—	YNV12T05-G
0.7525 ~ 5.5	10	9.6 ~ 14	179-2377-ND	13.64	13.04	12.50	—	YNV12T10-0G
0.7525 ~ 5.5	16	9.6 ~ 14	179-2378-ND	18.18	17.39	16.67	—	YNV12T16-0G

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Cut Tape

Digital Programmable Power Controller

The ZM7300 is a fully programmable digital power manager that utilizes the industry-standard I²C communication bus interface to control, manage, program and monitor up to 32 Z-series POL converters and 4 independent power devices. The ZM7300 series completely eliminates the need for external components for power management and programming and monitoring of the Z-One® POL converters and other industry standard power and peripheral devices. Parameters of the ZM7300 series are programmable via the I²C bus and can be changed by a user at any time during product development and deployment.

Features:

- Programs output voltage, protections, optimal voltage positioning, turn-on and turn-off delays and slew rates, switching frequency, interleave (phase shift), and feedback loop compensation of the Z-One POL converters.
- User friendly GUI interface for programming, monitoring, and performance simulation.

Z-One POLs and Auxiliary devices that can be controlled	Active Addresses	Number of Groups	Number of Interrupts	Number of Parallel Buses	Number of Auxiliary Devices	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
4	00...03	2	2	2	4	179-2415-ND	8.50	8.21	7.87	ZM7304G-65501-B1
8	00...07	2	2	4	4	179-2416-ND	11.93	11.53	11.05	ZM7308G-65502-B1
16	00...15	3	3	4	4	179-2417-ND	22.23	21.49	20.60	ZM7316G-65503-B1
32	00...31	4	4	8	4	179-2418-ND	27.38	26.47	25.37	ZM7332G-65504-B1
Digital Power Controller Kit										
Includes USB adapter and a 4-foot I²C cable						179-2419-ND		380.00/1		ZM00056-KIT

CompactPCI® Power Supply

Fully compliant to the PIGMG® 2.11 power interfact specification using a standard Positronic 47-pin connector. Patented EDGE™ Technology provides very high output current capacities.
CPA250-4530G: At 50°C forced airflow 3U units deliver 40A on both the +5V and +3.3V outputs.
CPD250-4530G: At 40°C forced airflow 3U units deliver 40A on both the +5V and +3.3V outputs.

Power Watts	Output 1	Output 2	Output 3	Output 4	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
250	5V @ 40A	3.3V @ 40A	12V @ 5.5A	-12V @ 2A	90 ~ 264	179-2280-ND	399.00	372.78	348.27	325.38	CPA250-4530G
250	5V @ 40A	3.3V @ 40A	12V @ 5.5A	-12V @ 2A	36 ~ 75	179-2281-ND ***NEW!***	368.00	344.09	321.83	300.82	CPD250-4530G

power-one™ Changing the Shape of Power

Linear Power Supplies

RoHS COMPLIANT

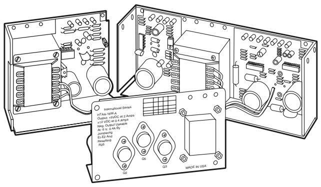

Features: • Worldwide AC input Capabilities • Meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, CE • Low output ripple • Two hour burn-in

Overvoltage Protection Options: Optional overvoltage protection modules are offered, each is user adjustable from 6.4V ~ 34V. Note: Outputs with factory built-in OVP are indicated in the Voltage/Current Rating Chart for each model.

General Specifications: • AC Input: 100/120/220/240VAC +10%, -13%. 47-63Hz. Tolerance for 230VAC operation is +15%, -10%. Factory wired for 120V operation. • DC Output: Adjustment range ±5% minimum. Voltage non-adjustable on "3 terminal regulator" outputs • Line Regulation: ±.05% for a 10% line change. Exceptions: ±.01% for F case models, ±0.5% for all other outputs using "3 terminal regulators" • Load Regulation: ±.05% for a 50% load change. Exceptions: ±.02% for F case models, ±0.5% for all other outputs using "3 terminal regulators" • Output Ripple: 5V through 15V models: 5.0mV PK-PK maximum (3.0mV PK-PK maximum for F case models). 24V through 250V models: 3.0mV PK-PK plus .02% of output voltage, maximum. All "3 terminal regulator" outputs: 0.2% PK-PK maximum • Overvoltage Protection: Provided on 5V outputs where indicated. Set at 6.2V ±0.4%. Other outputs use optional overvoltage protectors OVP12/OVP12G and OVP24/OVP24G. • Operating Temperature: 0°C ~ 50°C full rated, derated linearly to 40% at 70°C • Efficiency: 5V outputs — 45%, 12V and 15V outputs — 55%, 24V through 250V outputs — 60% • Master/Slave Operation: Provided on F models only. For parallel operation of up to 6 units.

Safety Specifications: All models exceed the following safety standards — Leakage Current Line to Ground (maximum): 0.05mA • Dielectric Withstand Voltage (minimum): Input to Ground — 3750VRMS, Input to Outputs — 3750VRMS, Outputs to Ground — 500VDC • 2 year warranty

Overvoltage Protection

Voltage Adjustment Range: 6.4 - 33VDC		
Maximum Current Rating		
Model	Intermittent	Continuous
OVP-12G	12.0A	8.0A
OVP-24, OVP-24G	30.0A	20.0A

Dimensions – Inch (mm) Height x Width x Thickness	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
1.50 x 1.55 x 0.56 (38.10 x 39.37 x 14.22)	179-2353-ND	12.53	12.22	11.90	OVP-12G
2.00 x 2.75 x 0.77 (50.80 x 69.85 x 19.56)	179-2354-ND	21.19	20.49	20.22	OVP-24G

OVP SELECTION GUIDE		
Model	Case Size	OVP Modules Required
Single Output	B, C, N, D	(1) OVP-12, OVP-12G
	E, F	(1) OVP-24, OVP-24G
Dual Output	AA, B, BB, CC	(1) OVP-12, OVP-12G protects both outputs
	E	(1) OVP-24, OVP-24G protects both outputs
Triple Output	AA, BAA, D, CBB , DCC	(1) OVP-12, OVP-12G protects both 12V through 15V outputs

Case Size

Case	Overall Size – Inch (mm)	Weight
CBB	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 lbs.
D	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 lbs.
DCC	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 lbs.
E	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 lbs.
F	16.75 x 4.88 x 5.00 (425.50 x 123.95 x 127.00)	19 lbs.
AA	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 lbs.
B	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 lbs.
BB	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 lbs.
BAA	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 lbs.
C	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 lbs.
CC	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 lbs.
N	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 lbs.

International Series Single Output

Voltage/ Current	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 1.5A*	B	179-2301-ND	44.93	43.64	42.67	40.41	HA5-1.5/OVP-AG
5V @ 3A†*	B	179-2316-ND	54.59	52.84	51.14	49.49	HB5-3/OVP-AG
5V @ 6A†*	C	179-2325-ND	85.49	82.87	80.32	77.85	HC5-6/OVP-AG
5V @ 9A†*	N	179-2349-ND	116.39	112.66	109.05	105.55	HN5-9/OVP-AG
5V @ 12A†*	D	179-2336-ND	131.84	127.68	123.64	119.73	HD5-12/OVP-AG
5V @ 18A†*	E	179-2344-ND	194.67	188.30	182.13	176.16	HE5-18/OVP-AG
12V @ 0.9A**	B	179-2299-ND	50.47	48.94	47.46	46.02	HA15-0.9-AG
12V @ 1.7A†	B	179-2311-ND	51.50	49.97	48.49	47.05	HB12-1.7-AG
12V @ 3.4A†	C	179-2321-ND	78.28	75.64	73.08	70.62	HC12-3.4-AG
12V @ 5.1A†	N	179-2345-ND	109.18	105.67	102.27	98.98	HN12-5.1-AG
12V @ 6.8A†	D	179-2331-ND	124.63	120.68	116.86	113.15	HD12-6.8-AG
12V @ 10.2A†	E	179-2340-ND	170.98	165.49	160.18	155.03	HE12-10.2-AG
12V @ 16A†	F	179-2295-ND	285.00	276.06	267.40	259.01	F15-15-AG
15V @ 1.5A†	B	179-2312-ND	53.56	51.80	50.10	48.46	HB15-1.5-AG
15V @ 3A†	C	179-2322-ND	78.28	75.64	73.08	70.62	HC15-3-AG
15V @ 4.5A†	N	179-2346-ND	109.18	105.67	102.27	98.98	HN15-4.5-AG
15V @ 9A†	E	179-2341-ND	170.98	165.49	160.18	155.03	HE15-9-AG
24V @ 0.5A**	B	179-2300-ND	44.93	43.64	42.67	40.41	HA24-0.5-AG
24V @ 1.2A†	B	179-2314-ND	54.59	52.84	51.14	49.49	HB24-1.2-AG
24V @ 2.4A†	C	179-2323-ND	78.28	75.64	73.08	70.62	HC24-2.4-AG
24V @ 3.6A†	N	179-2347-ND	95.79	92.48	89.29	86.20	HN24-3.6-AG
24V @ 4.8A†	D	179-2333-ND	124.63	120.68	116.86	113.15	HD24-4.8-AG
24V @ 7.2A†	E	179-2342-ND	170.98	165.49	160.18	155.03	HE24-7.2-AG
24V @ 12A†**	F	179-2298-ND	285.00	276.06	267.40	259.01	F24-12-AG
28V @ 1A†	B	179-2294-ND	46.18	44.60	43.96	41.43	HB28-1-AG
28V @ 2A†	C	179-2324-ND	78.28	75.64	73.08	70.62	HC28-2-AG
28V @ 3A†	N	179-2348-ND	109.18	105.67	102.27	98.98	HN28-3-AG
48V @ 0.5A	B	179-2315-ND	62.83	60.86	58.95	57.10	HB48-0.5-AG
48V @ 3A†	D	179-2335-ND	131.84	127.68	123.64	119.73	HD48-3-AG

* Overvoltage protection provided, set at 6.2V ±0.4V ** Adjustable outputs: HA15-0.9-AG: 12-15V; HA24-0.5-A/HA24-0.5-AG: 24-28V; F24-12-AG: 24-28V † Remote sense provided

International Series Dual Output

Output #1	Output #2	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+15V @ 0.4A§	-15V @ 0.4A§	B	179-2306-ND	57.68	55.93	54.24	52.59	HAD15-0.4-AG
+12V @ 0.4A§	-12V @ 0.4A§	B	179-2305-ND	49.32	47.73	46.78	44.23	HAD12-0.4-AG
+12V @ 1A or +15V @ 0.8A†	-12V @ 1A or -15V @ 0.8A or -5V @ 0.4A†	AA	179-2302-ND	66.95	64.75	62.63	60.57	HAA15-0.8-AG
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2318-ND	85.49	82.87	80.32	77.85	HBB15-1.5-AG
+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	CC	179-2328-ND	157.59	152.54	147.65	142.92	HCC15-3-AG
5V @ 2A*‡	12-15V @ 0.5A	AA	179-2304-ND	78.28	75.64	73.08	70.62	HAA512-AG
5V @ 6A*†	12-15V @ 2.5A	CC	179-2330-ND	126.70	122.88	120.32	114.26	HCC512-AG
24V @ 1.2A	-24V @ 1.2A	BB	179-2319-ND	84.00	82.67	81.34	76.01	HBB24-1.2-AG
12V @ 5A or 15V @ 5A†	-12V @ 5A or -15V @ 5A†	E	179-2339-ND	210.12	203.54	197.17	191.00	HDD15-5-AG
24V @ 0.6V	-24V @ 0.6A	AA	179-2303-ND	72.10	69.92	67.79	65.74	HAA24-0.6-AG
24V @ 2.4A	-24V @ 2.4A	CC	179-2329-ND	129.06	125.23	122.67	116.28	HCC24-2.4-AG

* Overvoltage protection provided, set at 6.2V ±0.4%. † Remote sense provided ‡ Isolated outputs, can be referenced as + or - § Non-adjustable 3 terminal regulator

International Series Triple Output

Output #1	Output #2	Output #3	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 2A*‡	12 to 15V @ 0.4A	-12 to 15V @ 0.4A or -5V @ 0.4A	AA	179-2350-ND	85.49	82.87	80.32	77.85	HTAA-16W-AG
5V @ 3A*†‡	12V @ 1A or 15V @ 0.8A†	-12 @ 1A or -15V @ 0.8A or -5V @ 0.4A†	BAA	179-2317-ND	103.00	99.71	96.52	93.44	HBAA-40W-AG
5V @ 6A*†	12 to 15V @1.0A	-12 to 15V @ 1A or -5V @ 0.4A	D	179-2326-ND	140.08	135.46	130.99	126.67	HCAA-60W-AG
5V @ 12A*†‡	12V @ 3.4A or 15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	DCC	179-2338-ND	250.29	242.40	234.75	227.34	HDCC-150W-AG
5V @ 6A†	12V @ 1.7A or 15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	CBB	179-2327-ND	162.74	157.70	152.82	148.09	HCBB-75W-AG

* Overvoltage protection provided, set at 6.2V ±0.4%. † Remote sense provided ‡ Isolated outputs, can be referenced as + or -

Input Filter Modules – FC100 Series

Fig. 1

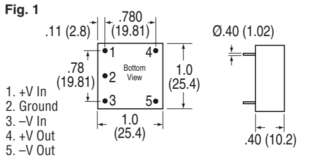

Fig. 2

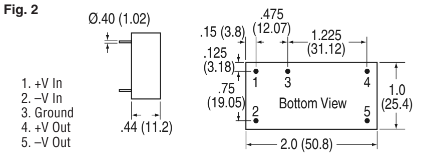

Fig. 3

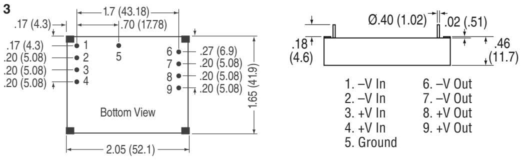

FC100 industry standard series of input filter modules provide up to 30dB of common mode and differential mode filtering at 500kHz. The FC100 series are optimized for operation with IPD's converters. The filters can be operated with up to 100VDC source and have 1000VDC of insolation.

Features: • Meet class B conducted limits • PCB mountable • CM and DM filtering • Industry standard pinout • -40°C ~ 100°C case operation • Input frequency 100Hz

Fig.	Operating Current (Amps)	Insertion Loss Differential Mode (dB)	Insertion Loss Common Mode (dB)	Typical Resistance (mΩ)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
1	5	28	30	27	179-2282-ND	13.86	13.37	12.87	12.38	FC100V5A-G
2	10	31	28	17	179-2283-ND	17.11	16.63	15.89	15.16	FC100V10A-G
3	20	26	32	6.6	179-2284-ND	26.81	25.03	23.24	21.45	FC100V20A-G

M

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Switching Power Supplies

U-Channel

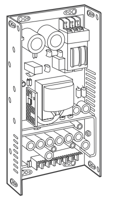

Board Only

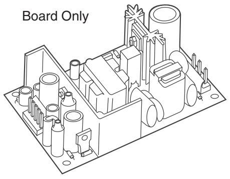

GENERAL FEATURES:

Safety agency approved: UL recognized, CSA certified, and TUV Essen certified. • Power Fail Warning Signal. 100% test, inspection and burn-in. • Overload Protection • Overvoltage Protection • Overtemperature Protection AC Input, Automatic selecting: 90-264VAC, 47-63Hz single phase Temperature Rating: 0°C ~ 50°C • Two Year Warranty

BLP Series The BLP40/55 Series' economical and compact construction provides single or three-output AC-DC power conversion to meet the requirements of networking and data communications systems, as well as commercial and industrial configurations. **FEATURES:** • Industry Standard 3" x 5" footprint • CE marked to Low Voltage Directive • Main Output Remote Sense

MPB-80 Watts with PFC **FEATURES:** • 65 Watts convection cooled, 80 Watts with 300 LFM forced air • Power factor correction meets EN61000-3-2 • High 3.3V and 5V current capabilities available • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Overvoltage protection on the main output • Isolated V3 can be used as a plus or minus output.

BLP/PLP/MAP SERIES — Single Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Configuration	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Power-One Part No.
BLP Series — RoHS Compliant													
5V	40	8	—	WM2123	WM2126	WM2313	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2266-ND	40.00	38.24	36.56	BLP55-1005G
12V	40	3.3	—	WM2123	WM2126	WM2313	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2265-ND	40.00	38.72	37.48	BLP55-1012G
24V	40	1.6	—	WM2123	WM2126	WM2313	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2267-ND	40.00	39.18	38.38	BLP55-1024G
MAP Series													
5V	40	8	—	WM2103	WM2108	WM2300	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2020-ND	127.00	119.00	112.00	MAP40-1005
5V	40	8	—	WM2103	WM2108	WM2300	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2001-ND	74.00	69.00	64.00	MAP42-1005
24V-28V	40	1.4	—	WM2103	WM2108	WM2300	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2003-ND	74.00	69.00	64.00	MAP42-1024
12V-15V†	55	5.0	—	WM2103	WM2108	WM2300	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2081-ND	140.00	131.00	123.00	MAP55-1012
24V-28V†	55	2.5	—	WM2103	WM2108	WM2300	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2082-ND	140.00	131.00	123.00	MAP55-1024
12V-15V†	130	12	—	WM2103	WM2108	WM2300	8.50 x 4.50 x 2.00 (215.90 x 114.30 x 50.80)	U-Channel	179-2080-ND	276.00	260.00	244.01	MAP130-1012
Cover for Map 55 and Map 40-1005 Series									179-2293-ND◆	11.43	—	—	412-59584-G
Cover for Map 80 Series									179-2296-ND◆	17.42	—	—	412-59585-G
Cover for Map 130 Series									179-2297-ND◆	10.24	—	—	412-59586-G

◆ ***RoHS Compliant*** † Models with adjustable outputs have current ratings expressed as current at lowest nominal voltage followed by current at highest nominal voltage

Triple Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Price Each 50	Power-One Part No.
BLP Series — RoHS Compliant													
5V 12V -12V	55	7 4 1	.4 .2 —	WM2123	WM2126	WM2313	Board Only 5.00" x 3.00" x 1.23" (127.00mm x 76.2mm x 31.2mm)	179-2269-ND	43.00	41.98	40.98	40.00	BLP55-3000G
3.3V 5V 12V	55	7 4 1	.5 — —	WM2123	WM2126	WM2313	Board Only 5.00" x 3.00" x 1.23" (127.00mm x 76.2mm x 31.2mm)	179-2268-ND	43.00	42.42	41.85	41.28	BLP55-3300G
MAP Series													
5V 24V -12V	40	3 1 .3	1 .25 —	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2004-ND	106.00	97.00	89.00	82.00	MAP40-3101
5V 12V -5V	40	3 2 .5	1 .25 —	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2005-ND	78.00	73.00	68.00	63.01	MAP40-3105
5V 12V -12V	40	3 2 .3	— — —	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2357-ND	74.70	64.80	61.20	54.90	MAP40-3100
5V 12V -12V	40	3 2 .3	.5 .3 —	WM2123	WM2126	WM2300	Board Only 5.00" x 3.00" x 1.16" (127.00mm x 76.20mm x 29.50mm)	179-2095-ND	127.00	119.00	112.00	104.01	MAP40-3000

Quad Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Price Each 50	Power-One Part No.
5V 12V -5V -12V	55	6 3 .5§ .5§	.5 — — —	A19953	A19958	A31396	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2096-ND	153.00	143.00	134.00	125.00	(MAP55-4000)
5V 24V 12V -12V	55	6 1.5 .5§ .5§	.5 — — —	A19953	A19958	A31396	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2097-ND	153.00	143.00	134.00	125.00	(MAP55-4001)
5V 12V 12V -12V	55	6 3 .5§ .5§	.5 — — —	WM2103	WM2108	WM2300	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2098-ND	153.00	143.00	134.00	125.00	(MAP55-4002)
5V 12V -12V -5V	80	14 4 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2100-ND	246.00	236.00	226.00	217.00	(MAP80-4000)
5V 24V 12V -12V	80	14 2 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2101-ND	246.00	236.00	226.00	217.00	(MAP80-4001)
5V 12V 12V -12V	80	14 4 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2102-ND	246.00	236.00	226.00	217.00	(MAP80-4002)
5V 15V -5V -15V	80	14 3.5 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2103-ND	246.00	236.00	226.00	217.00	(MAP80-4003)
3.3V 5V -12V 12V	80	12 5 1 1	1 — — —	A19953	A28761	A31396	Board Only 7.00" x 4.30" x 1.97" (177.8mm x 109.2mm x 50.0mm)	179-2008-ND	175.18	168.74	—	—	MAP110-4300

§ Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded

(Continued)

Switching Power Supplies

Quad Output *(Cont.)*

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V 12V -12V -5V	130	20 5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2093-ND	276.00	260.00	244.01	229.01	MAP130-4000
5V 24V -12V 12V	130	20 3.5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2019-ND	281.00	265.00	249.00	234.00	MAP130-4001
5V 12V 12V -12V	130	20 5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2094-ND	281.00	265.00	249.00	234.00	MAP130-4002

§ Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded

MPB 80 Series

Nom. Output Voltage	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
80 - Power (Watts) § — Board Only												
5V 12V	11 .5	1.5 —	WM2101	WM2104	WM2300	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2013-ND	101.75	91.80	84.66	76.51	MPB80-2000
5V 12V 12V	7 2.5 0.3	.7 — —	WM2101	WM2105	WM2300	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2014-ND	168.30	162.69	152.60	140.26	MPB80-3000

§ ***Caution:*** 80 Watt with 300LFM forced-air cooling

MPB 125 Series

Features: • High power density in an industry standard 3" x 5" footprint • Power Factor Correction (PFC) meets EN61000-3-2 • Main output remote sense • MTBF in excess of 1M hours based upon field data • Optional remote on/off with 5V standby • Maximum forced-air output power is 125 watts with 5 CFM airflow

Output Voltage	Max. Output Current (A), 130 LFM	Dimensions Inch (mm) L x W x H	Mating Connectors Housing AC Input	Contacts AC Input	Housing, V1 DC Output	Contacts, V1 DC Output	Signal Housing	Signal Contacts	Housing, V2 DC Output	Contacts, V2 DC Output	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
Standard Model															
12	0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2274-ND	89.25	86.70	81.60	MPB125-2012G
24 12	5.2 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2275-ND	89.25	86.70	81.60	MPB125-2024G
5 12 -12	16.5 5 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2277-ND	89.25	86.70	81.60	MPB125-3000G
3.3 5 12 -12	10 15 5 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2278-ND	89.25	86.70	81.60	MPB125-4350G
With Remote On/Off and Standby Output															
3.3 5 12 -12	10 15 5 0.5	5.0 x 3.8 x 1.25 (127.0 x 97 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2279-ND	107.10	104.04	97.92	MPB125-4350RG

S Series

Features: • Height meets 1U chassis constraints • Meets the international information technology safety standards with the CE-Mark for the European Low Voltage Directive • High efficiency • Thermal management

Output Voltage	Max Output Current (Amps)	Input Voltage	Input Housing	Output Housing	Contacts	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
15	5	90 ~ 264VAC	WM2101	WM2104	WM2300	179-2382-ND	47.00	44.00	41.00	SBLP65-1015G
48	1.56	90 ~ 264VAC	WM2101	WM2104	WM2300	179-2384-ND	47.00	44.00	41.00	SBLP65-1048G
12†	36.6	90 ~ 264VAC	—	—	—	179-2386-ND	472.50	459.90	432.60	SFP450-12BG
12†	53.3	90 ~ 264VAC	—	—	—	179-2387-ND	682.50	661.50	642.60	SFP650-12BG
12†	45.0	-40 ~ -75VDC	—	—	—	179-2388-ND	577.50	567.00	561.76	SFD550-12BG

† Standby Voltage of 3.3VDC @ 3A

FNP Series

Features: • 1U or 2U height configurations • I^{2}C interface status and control • Overtemperature, overload, and overvoltage protection • Meets international safety standards and display the CE Mark for the low Voltage Directive

Nominal Output Voltage	Output Current (Amps)	Input Voltage VAC Range	Input Housing	Output Housing	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
12	25	85 ~ 264	Q115-ND	—	179-2389-ND	228.38	220.50	216.57	FNP300-1012G
24	12.5	85 ~ 264	Q115-ND	WM1912 WM1024	179-2390-ND	228.38	220.50	216.57	FNP300-1024G
48	6.25	85 ~ 264	Q115-ND	—	179-2391-ND	228.38	220.50	216.57	FNP300-1048G
48†	21 0.5	90 ~ 264	—	—	179-2392-ND	475.02	458.64	450.45	FNP1000-48G
12†	73 0.5	90 ~ 264	—	—	179-2393-ND	395.85	382.20	375.38	FNP850-12G
12†	73 0.5	90 ~ 264	—	—	179-2394-ND	395.85	382.20	375.38	FNP850-12RG
12	129 @ 11.64V 101.8 @ 11.78A	108 ~ 264 85 ~ 105	—	—	179-2395-ND	669.90	646.80	635.25	FNP1500-12G
48	32.2 25.4	105 ~ 264 85 ~ 105	—	—	179-2396-ND	630.32	608.58	597.72	FNP1500-48G
48	39.2 32.2 25.4	180 ~ 264 105 ~ 180 85 ~ 105	—	—	179-2397-ND	714.05	689.43	677.12	FNP1800-48G

† Standby Voltage of 12VDC @ 0.5A

Weidmüller

DIN-Rail Mounted Switchmode Power Supplies

Features:

- TS35 DIN Rail Mounted
- AC or DC Input
- Wide AC Input Voltage Range
- Interference suppressed
- Electronic short circuit regulation on output
- CSA, UL, CE
- 26-12 AWG input/output conductor size

Fig. 1

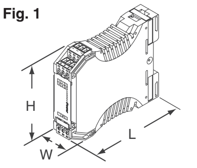

Fig. 2

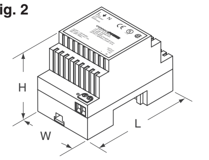

Fig. 3

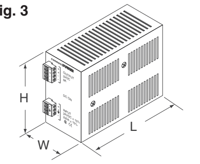

Fig. 4

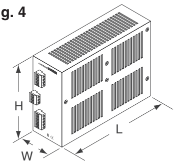

Fig. 5

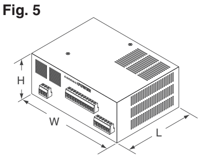

Fig.	Input Voltage Range		Dimensions L x W x H (mm)	DC Output Voltage (V)	Max. Current Output (A)	Digi-Key Part No.	Price Each			Weidmüller Part No.
	VAC	VDC					1	10	100	
1	85 ~ 265	120 ~ 300	112.5 x 22.5 x 90	24	0.5	281-2002-ND	135.90	124.25	97.07	9918840024
2	85 ~ 265	120 ~ 300	90.5 x 52 x 62.5	5	2.0	281-1556-ND◆	85.60	78.26	61.15	9928890005
	85 ~ 265	120 ~ 300	90.5 x 52 x 62.5	12	1.5	281-1557-ND◆*	85.60	78.26	61.15	9928890012
	85 ~ 265	120 ~ 300	90.5 x 52 x 62.5	15	1.5	281-1558-ND◆	85.60	78.26	61.15	9928890015
	85 ~ 265	120 ~ 300	90.5 x 52 x 62.5	24	1.0	281-1563-ND◆*	85.60	78.26	61.15	9928890024
	85 ~ 265	120 ~ 300	90.5 x 52 x 62.5	28	1.0	281-1559-ND◆	85.60	78.26	61.15	9928890028
3	85 ~ 265	120 ~ 300	131 x 57 x 98	24 - 28	2.3	281-2005-ND◆*	203.37	185.95	145.27	9927480024
	85 ~ 265	120 ~ 300	131 x 57 x 98	48	1.04	281-2006-ND◆	208.44	190.57	148.89	9927480048
	85 ~ 265	120 ~ 300	131 x 57 x 98	12 - 15	3.0	281-2004-ND◆*	208.44	190.57	148.89	9927480012
	306 ~ 550	—	168 x 60 x 108	24	2.3	281-2009-ND†	244.37	223.43	174.55	9917790324
4	85 ~ 138	275 ~ 375	175 x 57 x 127	24 - 28	6.5	281-2007-ND◆*	328.12	300.00	234.38	9925340024
5	86 ~ 265	100 ~ 200	155 x 240 x 101	24	12.5	281-2019-ND	628.38	574.52	448.85	9916250024

◆ ***RoHS Compliant*** † 3-Phase input * Class 1 Division 2 approved

DIN-Rail Mounted DC-DC Converters

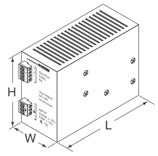

The CP-DCDC 50W is a compact 50W DIN rail mounted DC to DC converter family. This family is available in 2 input versions and 4 output versions, making it very versatile.

Features: • 12V and 24V input versions • 5V, 12V, 15V and 24V output variations • User adjustable output voltage • Input and output plug-socket connectors • Output status LED • DIN rail (TS35) mountable • Chassis mountable with optional hardware • Just 57mm (2.24") wide • Robust metal housing

Specifications: Temperature range: -10°C ~ 50°C **Wire Size:** 26-12AWG **Approvals/Certifications:** CSA, UL, CE **Fused Input Protections:** 6.3A Slow Blow

Input Current (A)	Output Volt/Current	Output Adj. Range (V)	Dimension L x W x H (mm)	Digi-Key Part No.	Price Each				Weidmüller Part No.
					1	10	25	50	
12VDC Input Version with 10.2 - 13.8VDC Input Range									
3.88	12V@3A	10.5 ~ 14.5	131 x 57 x 98	281-2011-ND*	301.91	271.72	261.66	256.63	9919371212
4.70	15V@3A	13 ~ 18	131 x 57 x 98	281-2012-ND◆*	294.71	265.25	255.42	250.51	9919371215
4.96	24V@2A	20.5 ~ 29.5	131 x 57 x 98	281-2013-ND◆*	301.91	271.72	261.66	256.63	9919371224
24VDC Input Version with 20.4 - 27.6VDC Input Range									
2.3	5V@8A	4.6 ~ 5.6	131 x 57 x 98	281-2014-ND*	301.91	271.72	261.66	256.63	9919372405
1.93	12V@3A	10.5 ~ 14.5	131 x 57 x 98	281-2015-ND◆*	301.91	271.72	261.66	256.63	9919372412
2.37	15V@3A	13 ~ 18	131 x 57 x 98	281-2016-ND*	301.91	271.72	261.66	256.63	9919372415
2.49	24V@2A	20.5 ~ 29.5	131 x 57 x 98	281-2017-ND◆*	301.91	271.72	261.66	256.63	9919372424
Chassis Mounting Kit				281-2018-ND	10.27	7.90	6.32	—	7920560000

◆ ***RoHS Compliant*** * Class 1 Division 2 approved

PHOENIX CONTACT
INSPIRING INNOVATIONS

DIN-Rail Mounted Quint Industrial Grade Primary Switched-Mode Power Supplies

Features:

• Universal voltage input • Maximum space-saving design • Power factor correction • POWER BOOST output up to 50% • Electronic overload protection • High MTBF rating >500,000 hours • DC OK signal and DC OK dry contact • Parallel and series connection • 5 Year warranty

The STEP POWER generation of compact power supply units is particularly suitable for installation distributors and flat control panels thanks to its design. The power supply units are available with 24VDC output voltage in various performance classes and widths and with the special voltages 5, 12, 15 and 48VDC. Their high degree of efficiency and the low standby losses make for high power efficiency.

Fig.	Input Voltage Range		Dimensions L x W x H (mm)	Output Voltage	Current Output (A)	Digi-Key Part No.	Price Each			Phoenix Contact Part No.
	VAC	VDC					1	10	50	
1	85 ~ 264	90 ~ 350	125 x 55 x 130	24VDC	2.5	277-1660-ND	209.60	192.84	178.17	2938578
	85 ~ 264	90 ~ 350	125 x 32 x 130	24VDC	3.5	277-1992-ND	182.59	167.99	155.21	2866747
	85 ~ 264	90 ~ 350	125 x 40 x 130	24VDC	5	277-1993-ND	254.13	233.80	216.02	2866750
	85 ~ 264	90 ~ 350	125 x 55 x 130	24VDC	5	277-1661-ND	314.40	289.25	267.25	2938581
	85 ~ 264	90 ~ 350	125 x 60 x 130	48VDC	5	277-1999-ND	428.43	394.16	364.17	2866679
	85 ~ 264	90 ~ 350	130 x 85 x 130	12VDC	10	277-1865-ND	440.07	404.87	374.07	2938811
	85 ~ 264	90 ~ 350	125 x 85 x 130	24VDC	10	277-1662-ND	452.89	416.66	384.96	2938604
	85 ~ 264	90 ~ 350	125 x 60 x 130	24VDC	10	277-1994-ND	367.07	337.71	312.01	2866763
	85 ~ 264	90 ~ 350	125 x 60 x 130	12VDC	15	277-2000-ND	431.96	397.41	367.17	2866718
	85 ~ 264	90 ~ 350	125 x 90 x 130	24VDC	20	277-1995-ND	545.00	501.41	463.26	2866776
	85 ~ 264	90 ~ 350	125 x 157 x 130	48VDC	10	277-1914-ND	830.44	764.01	705.88	2938248
	85 ~ 264	90 ~ 350	125 x 157 x 130	24VDC	20	277-1663-ND	753.56	693.28	640.53	2938620
	85 ~ 264	120 ~ 350	125 x 240 x 130	48VDC	20	277-1915-ND	869.43	799.88	739.02	2938976
	85 ~ 264	90 ~ 350	125 x 240 x 130	24VDC	40	277-1913-ND	899.09	827.17	764.23	2938879
2	3x320 ~ 575	450 ~ 800	125 x 40 x 130	24VDC	5	277-1996-ND	263.54	242.46	224.01	2866734
	3x320 ~ 575	450 ~ 800	125 x 70 x 130	24VDC	5	277-1916-ND	334.36	307.62	284.21	2938594
	3x320 ~ 575	450 ~ 800	125 x 60 x 130	24VDC	10	277-1997-ND	367.07	337.71	312.01	2866705
	3x320 ~ 575	450 ~ 800	125 x 85 x 130	24VDC	10	277-1917-ND	452.89	416.66	384.96	2938617
	3x320 ~ 575	450 ~ 800	125 x 69 x 130	24VDC	20	277-1998-ND	545.00	501.41	463.26	2866792
	3x320 ~ 575	450 ~ 800	125 x 160 x 130	24VDC	20	277-1918-ND	636.29	585.39	540.85	2938727
	3x320 ~ 575	450 ~ 800	130 x 240 x 130	48VDC	20	277-1921-ND	749.63	689.67	637.19	2938222
	3x320 ~ 575	450 ~ 800	125 x 240 x 130	24VDC	40	277-1919-ND	940.64	865.39	799.55	2938646
DC-DC Converter										
1	—	18 ~ 32	125 x 80 x 130	24VDC	10	277-1922-ND	536.61	493.69	456.12	2866378
STEP POWER Power Supply Units										
3	85 ~ 264	95 ~ 250	61 x 18 x 90	24VDC	0.5	277-2129-ND ***NEW!***	39.78	36.60	32.33	2868596
	85 ~ 264	95 ~ 250	61 x 36 x 90	24VDC	0.75	277-1986-ND	41.44	38.13	35.23	2868635
	85 ~ 264	95 ~ 250	61 x 18 x 90	12VDC	1	277-2130-ND ***NEW!***	40.21	37.00	32.68	2868538
	85 ~ 264	95 ~ 250	61 x 36 x 90	12VDC	1.5	277-1990-ND	45.02	41.42	38.27	2868567
	85 ~ 264	95 ~ 250	61 x 54 x 90	24VDC	1.75	277-1987-ND	59.24	54.51	50.36	2868648
	85 ~ 264	95 ~ 250	61 x 72 x 90	24VDC	2.5	277-1988-ND	71.06	65.38	60.41	2868651
	85 ~ 264	95 ~ 250	61 x 54 x 90	12VDC	3	277-1991-ND	65.51	60.27	55.69	2868570
	85 ~ 264	95 ~ 250	61 x 90 x 90	24VDC	4.2	277-1989-ND	99.84	91.86	84.87	2868664
4	85 ~ 264	95 ~ 250	43 x 36 x 90	12VDC	1.5	277-2131-ND ***NEW!***	46.81	43.07	38.04	2868554
Power Distribution										
5	2 Power 8 Distributor Terminal Blocks		65.5 x 50 x 50	250VAC/DC	15	277-2005-ND	30.95	28.48	26.31	2315256
	2 Power 12 Distributor Terminal Blocks		65.5 x 70.4 x 50	250VAC/DC	15	277-2006-ND	34.26	31.52	29.13	2315269
	2 Power 16 Distributor Terminal Blocks		65.5 x 90.8 x 50	250VAC/DC	15	277-2007-ND	43.61	40.13	37.07	2315272

Fig. 1

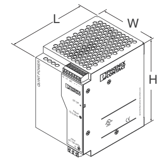

Fig. 2

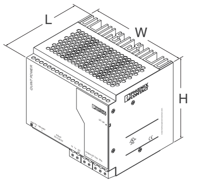

Fig. 3

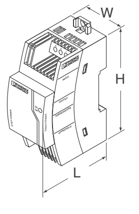

Fig. 4 ***NEW!***

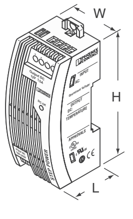

Fig. 5

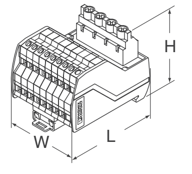

PHOENIX CONTACT
INSPIRING INNOVATIONS

DIN-Rail Mounted Mini Power Universal Power Supplies

Features: • Universal voltage input • Maximum space-saving design • Power factor correction • POWER BOOST output up to 100% • Electronic overload protection • High MTBF rating >500,000 hours • Pluggable COMBICON connections • Parallel connection • Derating starts @ >60° C

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Phoenix Contact Part No.
1	85-264V	90-350V	107 x 22.5 x 99	5VDC	3A	277-1664-ND	121.02	111.34	102.87	2938714
2	85-264V	90-350V	107 x 45 x 99	10-15VDC	2A	277-1863-ND	154.22	141.89	131.09	2938756
	85-264V	90-350V	107 x 67.5 x 99	10-15VDC	8A	277-1864-ND	207.77	191.15	176.61	2866297
	85-264V	90-350V	107 x 45 x 99	24VDC	2A	277-1666-ND	141.37	130.07	120.17	2938730
	85-264V	90-350V	107 x 67.5 x 99	24VDC	3.8A	277-1862-ND†	170.29	156.67	144.75	2866336
3	85-264V	90-350V	107 x 22.5 x 99	24VDC	1.3A	277-1923-ND	108.17	99.52	91.95	2866446
	—	12-24V	107 x 22.5 x 99	24VDC	1A	277-1924-ND	176.72	162.59	150.22	2866284
	—	48-60V	107 x 22.5 x 99	24VDC	1A	277-1925-ND	176.72	162.59	150.22	2866271

† NEC Class 2

Fig. 1

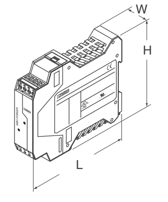

Fig. 2

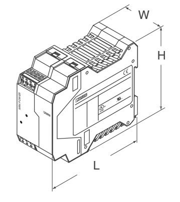

Fig. 3

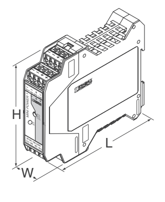

DIN-Rail Mounted General Purpose Primary Switched-Mode TRIO Power Supplies

Features: • Wide Range Input Voltage • 500,000 hours MTBF • Electronic overload and short circuit protection • Single or Parallel - (No Selector Switch) • 3-Year Warranty • Power Factor Correction • Operating Temperature: 0°C ~ 55°C without derating • Built-in LED Indication • U/I Characteristic overload protection • Adjustable Output Voltage: 22.5~29.5 VDC (24 VDC Models) • UL 508

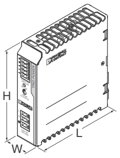

Input Voltage Range VAC	Dimensions L x W x H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Phoenix Contact Part No.
85 ~ 264V	115 x 32 x 130	24VDC	2.5A	277-1926-ND	101.92	93.77	86.64	2866268
85 ~ 264V	115 x 40 x 130	24VDC	5A	277-1927-ND	152.88	140.65	129.95	2866310
85 ~ 264V	152.5 x 60 x 130	24VDC	10A	277-1928-ND	219.31	201.77	186.42	2866323
85 ~ 264V	152.5 x 115 x 130	24VDC	20A	277-1929-ND	365.82	336.56	310.95	2866381

Filter Surge Protection

Dimensions in mm

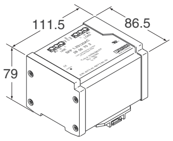

DIN rail module with device surge protection type 3 and mains suppression filter against high frequency interference voltages.
Integrated power display switches off automatically when there is a malfunction due to overload.
Mounting on NS 35.

Specifications:
• 120V Nominal Voltage • 20A Nominal Current
• UL1449 • UL1283

277-1867-ND (2856702)... **$335.47**

Single and 3-Phase Surge Protection

Installing surge protection devices to protect your investment and increase your reliability is the answer. With over 20 years experience as a leader in the surge protection industry, Phoenix Contact provides one of the most comprehensive line of protection solutions available on the market.

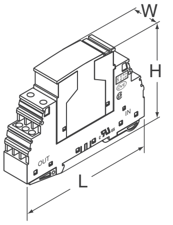

Description	Dimensions L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Phoenix Contact Part No.
Single Phase	90 x 17.7 x 65.5	277-2001-ND	126.37	116.26	107.42	2856812
Single Phase	90 x 17.7 x 65.5	277-2002-ND	133.93	123.22	113.85	2858357
3-Phase	98.5 x 37.25 x 70	277-2003-ND	280.08	257.68	238.07	2859547
3-Phase	98.5 x 49.2 x 70	277-2004-ND	337.54	310.54	286.91	2859521

OMRON

Switching Power Supplies

S8VM Series Switching Power Supplies

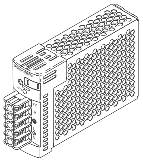

Omron's newest power supply offered in either Din-rail mount or Chassis mount universal power supplies. The S8VM series is an ultra compact design with the widest possible operating voltage (100-240VAC). Includes Finger-safe front terminals, captive terminal screws that don't fall out and color coded voltage labels for the different output voltages to prevent communication misunderstandings. UL 1604 rating (Class 1, Division 2) for hazardous areas

Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) H x W x D	Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
				Din-Rail						
15	5	3	3.21 x 1.30 x 3.17 (81.5 x 33 x 80.5)	Standard	Z2463-ND	74.71	69.18	64.57	59.96	S8VM-01505CD
	12	1.3	3.21 x 1.30 x 3.17 (81.5 x 33 x 80.5)	Standard	Z2465-ND	74.71	69.18	64.57	59.96	S8VM-01512CD
	24	.65	3.33 x 1.38 x 3.33 (84.5 x 35.1 x 84.5)	Undervoltage Alarm	Z2467-ND	122.00	112.97	105.44	97.91	S8VM-01524AD
	24	.65	3.21 x 1.30 x 3.17 (81.5 x 33 x 80.5)	Standard	Z2468-ND	74.71	69.18	64.57	59.96	S8VM-01524CD
30	5	6	3.23 x 1.30 x 3.76 (82 x 33 x 95.5)	Standard	Z2471-ND	81.33	75.31	70.29	65.27	S8VM-03005CD
	12	2.5	3.23 x 1.30 x 3.76 (82 x 33 x 95.5)	Standard	Z2473-ND	79.28	73.41	68.52	63.62	S8VM-03012CD
	15	2	3.23 x 1.30 x 3.76 (82 x 33 x 95.5)	Standard	Z2475-ND	79.74	73.84	68.91	63.99	S8VM-03015CD
	24	1.3	3.33 x 1.38 x 3.92 (84.5 x 35.1 x 99.5)	Undervoltage Alarm	Z2477-ND	96.27	89.14	83.20	77.26	S8VM-03024AD
	24	1.3	3.23 x 1.30 x 3.76 (82 x 33 x 95.5)	Standard	Z2478-ND	79.28	73.41	68.52	63.62	S8VM-03024CD
50	5	10	3.25 x 1.30 x 4.74 (82.5 x 33 x 120.5)	Standard	Z2481-ND	101.16	93.67	87.43	81.18	S8VM-05005CD
	12	4.3	3.25 x 1.30 x 4.74 (82.5 x 33 x 120.5)	Standard	Z2482-ND	96.65	89.49	83.53	77.56	S8VM-05012CD
	24	2.2	3.33 x 1.38 x 4.90 (84.5 x 35.1 x 124.5)	Undervoltage Alarm	Z2483-ND	116.47	107.85	100.66	93.47	S8VM-05024AD
100	5	20	3.25 x 1.30 x 6.32 (82.5 x 33 x 160.5)	Standard	Z2487-ND	136.65	126.53	118.10	109.66	S8VM-10005CD
	12	8.5	3.25 x 1.30 x 6.32 (82.5 x 33 x 160.5)	Standard	Z2489-ND	136.65	126.53	118.10	109.66	S8VM-10012CD
	24	4.5	3.33 x 1.44 x 6.48 (84.5 x 36.6 x 164.5)	Undervoltage Alarm	Z2491-ND	153.19	141.85	132.39	122.94	S8VM-10024AD
	24	4.5	3.25 x 1.30 x 6.32 (82.5 x 33 x 160.5)	Standard	Z2492-ND	136.65	126.53	118.10	109.66	S8VM-10024CD
150	5	27	3.25 x 1.54 x 6.32 (82.5 x 39.1 x 160.5)	Standard	Z2495-ND†	173.22	160.39	149.70	139.01	S8VM-15005CD
	12	12.5	3.25 x 1.54 x 6.32 (82.5 x 39.1 x 160.5)	Standard	Z2497-ND	173.22	160.39	149.70	139.01	S8VM-15012CD
	24	6.5	3.33 x 1.80 x 6.48 (84.5 x 45.6 x 164.5)	Undervoltage Alarm	Z2499-ND	192.84	178.56	166.66	154.75	S8VM-15024AD
	24	6.5	3.25 x 1.54 x 6.32 (82.5 x 39.1 x 160.5)	Standard	Z2500-ND	173.22	160.39	149.70	139.01	S8VM-15024CD
				Front-Mounting						
15	5	3	3.21 x 1.06 x 3.17 (81.5 x 27 x 80.5)	Standard	Z2464-ND	69.65	64.50	60.20	55.90	S8VM-01505C
	12	1.3	3.21 x 1.06 x 3.17 (81.5 x 27 x 80.5)	Standard	Z2466-ND	69.65	64.50	60.20	55.90	S8VM-01512C
	24	.65	3.33 x 1.32 x 3.33 (84.5 x 33.5 x 84.5)	Undervoltage Alarm	Z2469-ND	117.47	—	—	—	S8VM-01524A
	24	.65	3.21 x 1.06 x 3.17 (81.5 x 27 x 80.5)	Standard	Z2470-ND	69.65	64.50	60.20	55.90	S8VM-01524C
30	5	6	3.25 x 1.06 x 3.76 (82.5 x 27 x 95.5)	Standard	Z2472-ND	76.79	71.11	66.37	61.63	S8VM-03005C
	12	2.5	3.25 x 1.06 x 3.76 (82.5 x 27 x 95.5)	Standard	Z2474-ND	74.12	68.63	64.06	59.48	S8VM-03012C
	15	2	3.25 x 1.06 x 3.76 (82.5 x 27 x 95.5)	Standard	Z2476-ND	74.12	68.63	64.06	59.48	S8VM-03015C
	24	1.3	3.33 x 1.32 x 3.92 (84.5 x 33.5 x 99.5)	Undervoltage Alarm	Z2479-ND	91.59	84.81	79.15	73.50	S8VM-03024A
	24	1.3	3.25 x 1.06 x 3.76 (82.5 x 27 x 95.5)	Standard	Z2480-ND	74.12	68.63	64.06	59.48	S8VM-03024C
50	24	2.2	3.25 x 1.06 x 4.74 (82.5 x 27 x 120.5)	Standard	Z2486-ND	96.35	89.22	83.27	77.32	S8VM-05024C
100	5	20	3.25 x 1.12 x 6.32 (82.5 x 28.5 x 160.5)	Standard	Z2488-ND	132.25	122.46	114.30	106.13	S8VM-10005C
	12	8.5	3.25 x 1.12 x 6.32 (82.5 x 28.5 x 160.5)	Standard	Z2490-ND	125.91	116.59	108.82	101.05	S8VM-10012C
	24	4.5	3.33 x 1.38 x 6.48 (84.5 x 35 x 164.5)	Undervoltage Alarm	Z2493-ND	148.86	137.84	128.65	119.46	S8VM-10024A
	24	4.5	3.25 x 1.12 x 6.32 (82.5 x 28.5 x 160.5)	Standard	Z2494-ND	132.25	122.46	114.30	106.13	S8VM-10024C
150	5	27	3.25 x 1.48 x 6.32 (82.5 x 37.5 x 160.5)	Standard	Z2496-ND†	205.44	—	—	—	S8VM-15005C
	12	12.5	3.25 x 1.48 x 6.32 (82.5 x 37.5 x 160.5)	Standard	Z2498-ND	166.41	154.09	143.82	133.54	S8VM-15012C
	24	6.5	3.33 x 1.73 x 6.48 (84.5 x 44 x 164.5)	Undervoltage Alarm	Z2501-ND	185.44	171.71	160.26	148.82	S8VM-15024A
	24	6.5	3.25 x 1.48 x 6.32 (82.5 x 37.5 x 160.5)	Standard	Z2502-ND	166.41	154.09	143.82	133.54	S8VM-15024C

† The output capacity is 135 Watts.

(Continued)

S8VS Series Switching Power Supplies

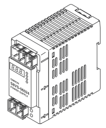

Features • Ultra-compact size with built-in din rail mounting • Three year warranty
Specifications: • Input Voltage: 100 ~ 240VAC (85 ~ 264VAC) • Power Factor Correction: Conforms to EN61000-3-2 A-14 • Overvoltage Protection: Yes • Output Indicator: Yes, green • Electromagnetic Interference: Conforms to FCC Class A, EN50081-2

Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) H x W x D	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
15	5	2.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2289-ND*	73.37	67.94	63.41	58.88	S8VS-01505
	12	1.2	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2290-ND	73.37	67.94	63.41	58.88	S8VS-01512
	24	0.65	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2291-ND	73.37	67.94	63.41	58.88	S8VS-01524
30	5	4.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2292-ND§	94.65	87.64	81.80	75.96	S8VS-03005
	12	2.5	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2293-ND	91.37	84.60	78.96	73.32	S8VS-03012
	24	1.3	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2294-ND	93.20	86.30	80.54	74.79	S8VS-03024
60	24	2.5	3.74 x 1.58 x 4.26 (95 x 40 x 108.3)	Standard	Z1663-ND	127.90	118.43	110.53	102.64	S8VS-06024
	24	2.5	3.74 x 1.58 x 4.26 (95 x 40 x 108.3)	with Maintenance Forecast Monitor	Z1665-ND	137.62	127.43	118.93	110.44	S8VS-06024A
	24	2.5	3.74 x 1.58 x 4.26 (95 x 40 x 108.3)	with Total Run Time Monitor	Z1667-ND	134.84	124.85	116.53	108.21	S8VS-06024B
90	24	3.75	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z1664-ND	167.55	155.15	144.80	134.46	S8VS-09024
	24	3.75	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	with Maintenance Forecast Monitor	Z1666-ND	212.63	—	—	—	S8VS-09024A
120	24	5.0	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z2295-ND	202.22	187.25	174.77	162.28	S8VS-12024
	24	5.0	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	with Maintenance Forecast Monitor	Z2296-ND	212.00	196.30	183.22	170.13	S8VS-12024A
	24	5.0	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	with Total Run Time Monitor	Z2297-ND	210.19	194.62	181.65	168.67	S8VS-12024B
180	24	7.5	4.53 x 2.95 x 4.93 (115 x 75 x 125.3)	Standard	Z2298-ND	270.66	250.62	233.91	217.20	S8VS-18024
	24	7.5	4.53 x 2.95 x 4.93 (115 x 75 x 125.3)	with Maintenance Forecast Monitor	Z2299-ND	328.72	304.38	284.09	263.80	S8VS-18024A
240	24	10.0	4.53 x 3.94 x 4.93 (115 x 100 x 125.3)	Standard	Z2301-ND	296.44	274.49	256.19	237.89	S8VS-24024
	24	10.0	4.53 x 3.94 x 4.93 (115 x 100 x 125.3)	with Maintenance Forecast Monitor	Z2302-ND	399.04	369.49	344.85	320.22	S8VS-24024A
	24	10.0	4.53 x 3.94 x 4.93 (115 x 100 x 125.3)	with Total Run Time Monitor	Z2303-ND	368.82	341.50	318.73	295.97	S8VS-24024B
480	24	20	4.53 x 5.90 x 5.00 (115 x 150 x 127.2)	Standard	Z2813-ND	455.62	421.87	393.75	365.62	S8VS-48024
	24	20	4.53 x 5.90 x 5.00 (115 x 150 x 127.2)	with Maintenance Forecast Monitor	Z2812-ND	629.99	583.33	544.44	505.55	S8VS-48024A
Mounting Bracket (DIN Rail Mounting for 600-W Models)					Z2814-ND	34.04	31.52	29.42	27.32	S82Y-VM60D

* The output capacity is 10 Watts. § The output capacity is 20 Watts.

NEW! S8JX Series Switching Power Supplies

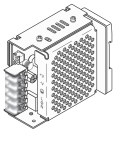

Omron's new S8JX series is the ultimate DIN-rail-mounting power supply with a power range of 3 ~ 100W. This series is the latest in switch mode power supplies and were designed for a reduced, shorter panel depth. It is a perfect replacement for Omron's popular S82K power supplies.
Features: • Overload protection • Series operation is possible • Includes cover and DIN-rail bracket **Specifications:** • Input Voltage: 100 ~ 240VAC (85 ~ 264VAC) • Input Frequency: 50/60HZ (47 ~ 450HZ) • Leakage Current: 100V input 0.5ma max • Efficiency: (typical) 76% ~ 86% • Overload Protection: 105% ~ 160% of rated load current (typical) • Life Expectancy: 10 years minimum • Operating Temperature: 0°C ~ 40°C • Ambient Operating Humidity: 25% ~ 85% • Output Voltage Adjustment Range: -10% ~ 15% • Electromagnetic Interface: Conforms to FCC Class A, En 55011

Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) H x W x D	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
15	12	1.3	3.78 x 1.56 x 4.51 (96 x 39.5 x 114.5)	DIN-Rail	Z3052-ND	47.60	44.07	41.14	38.20	S8JX-G01512CD
	24	650mA	3.78 x 1.56 x 4.51 (96 x 39.5 x 114.5)	DIN-Rail	Z3053-ND	47.60	44.07	41.14	38.20	S8JX-G01524CD
35	12	3.0	3.78 x 1.56 x 4.51 (96 x 39.5 x 114.5)	DIN-Rail	Z3054-ND	53.54	49.58	46.27	42.97	S8JX-G03512CD
	24	1.5	3.78 x 1.56 x 4.51 (96 x 39.5 x 114.5)	DIN-Rail	Z3055-ND	53.54	49.58	46.27	42.97	S8JX-G03524CD
300	24	14	3.78 x 4.33 x 8.06 (96 x 110 x 204.8)	DIN-Rail	Z3056-ND	227.04	210.23	196.21	182.20	S8JX-G30024CD

S82K DIN Rail/Chassis Mount Switching Supplies

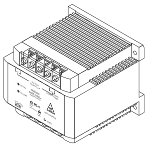

DIN Rail or chassis mounted power supply for industrial applications. Screw terminals for both input and output connections and enclosed circuit board make this supply extremely safe for open access areas. For mounting track, use Z840-ND or Z841-ND
Specifications: • Input Frequency: 47Hz ~ 450Hz • Leakage Current: 100V input 0.5mA maximum • Efficiency: (typical) 60% ~ 80% • Overload Protection: 105% ~ 160% of rated load current (typical) • Life Expectancy: 8 years minimum • Operating Temperature: 0°C ~ 40°C • Input Voltage: 120VAC (85 ~ 132VAC) or 240VAC (170 ~ 264VAC) selectable • Ambient Humidity: Operating 25% ~ 85% • Noise Filter: Yes • Electromagnetic Interference: Conforms to FCC class B • Output Voltage Adjustment Range: ±10%

Input Voltage VAC	Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) H x W x D	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
85 ~ 264	3	12	0.25	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1178-ND◆	71.73	66.42	62.00	S82K-00312
	3	24	0.13	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1179-ND	71.73	66.42	62.00	S82K-00324
	7.5	5	1.5	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1180-ND◆	78.32	72.53	67.69	S82K-00705
	7.5	12	0.6	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1181-ND◆	78.32	72.53	67.69	S82K-00712
	7.5	24	0.3	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1182-ND◆	78.32	72.53	67.69	S82K-00724
	15	24	0.6	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z1183-ND◆	90.55	83.85	78.26	S82K-01524
	30	24	1.3	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1184-ND◆	122.16	113.11	105.57	S82K-03024
	50	24	2.1	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1185-ND◆	140.21	129.83	121.17	S82K-05024
100 ~ 240	15	5	2.5	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2435-ND◆	90.55	83.85	78.26	S82K-01505
	15	12	1.2	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2361-ND◆	90.55	83.85	78.26	S82K-01512
	30	12	2.5	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z2437-ND◆	119.81	110.94	103.54	S82K-03012
120 ~ 240	100	24	4.2	2.95 x 5.71 x 3.78 (75 x 145 x 96)	DIN-Rail	Z2360-ND◆	197.75	183.11	170.90	S82K-10024

◆ ***RoHS Compliant***

S8PS Series Enclosed DIN Rail Mount Supplies

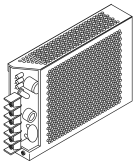

Enclosed DIN rail mount power supplies with PFC on all models. Screw terminal connections make interfacing to supply convenient.
For mounting track, use Z840-ND or Z841-ND.
Specifications: • Input Frequency: 47Hz ~ 63Hz • Overvoltage Protection: Yes • Efficiency: (typical) 74% ~ 80% • Operating Temperature: 0°C ~ 50°C • Life Expectancy: 10 years minimum • Output indicator: Yes (green) • Electromagnetic Interference: Conforms to FCC Class B, EN50081-1 • Leakage Current: 0.5 or 1.0mA maximum • Voltage Adjustment Range: -5% ~ 10% • Mean Time Between Failure (MTBF): 135,000 hours minimum

Input Voltage	Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) H x W x D	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
85 ~ 264	50	12	4.2	3.35 x 1.57 x 5 (85 x 40 x 127)	Enclosed	Z1174-ND	155.52	144.00	134.40	124.80	S8PS-05012CD

Panasonic®

DC-DC Converters

Miniature, light and high efficiency Hybrid IC style switching type DC/DC converters. The DC/DC converter is accomplished by means of switching mode control without a transformer. When used with a simple rectifier circuit they can be connected directly to AC.

Features: • With over current protector.
Recommended Applications: • Power supply for microcomputer, fan motor, LED, buzzer and sensor circuit of household electric equipment.

Fig. 1

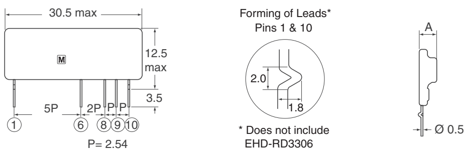

* Does not include EHD-RD3306

No.	Function
1	IN
2	—
3	—
4	—
5	—
6	GND
7	—
8	L1-1
9	OUT
10	L1-2

Fig. 2

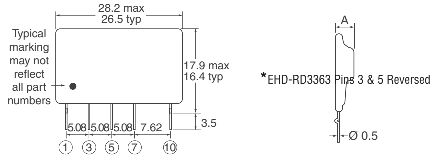

*EHD-RD3363 Pins 3 & 5 Reversed

No.	Function
1	OUT
2	—
3*	L1-1
4	—
5*	L1-2
6	—
7	GND
8	—
9	—
10	IN

Fig. 3

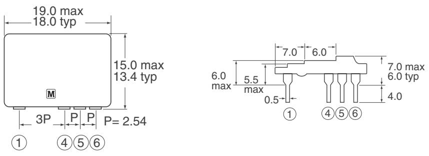

No.	Function
1	IN
2	—
3	—
4	GND
5	TP
6	OUT

Fig. 4

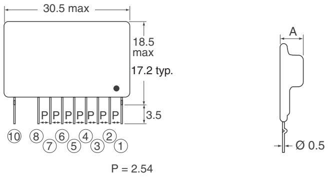

No.	Function	No.	Function
1	OUT	2	NC
3	NC	4	NC
5	GND	6	NC
7	NC	8	NC
9	—	10	IN

Fig. 5

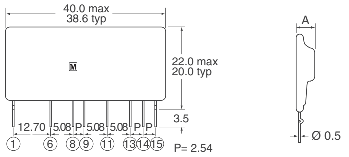

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 6

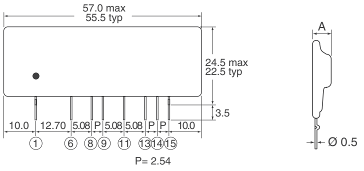

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 7

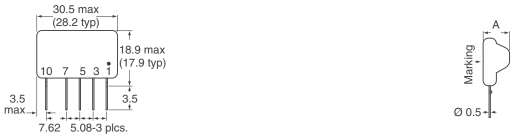

No.	Function	No.	Function
1	OUT	2	—
3	NC	4	—
5	GND	6	—
7	NC	8	—
9	—	10	IN

Fig.	Input Voltage (VDC) (Min.)	Input Voltage (VDC) (Typ.)	Input Voltage (VDC) (Max.)	Output Voltage (VDC) (Min.)	Output Voltage (VDC) (Typ.)	Output Voltage (VDC) (Max.)	Output Current (Max.)	Dimensions (A) (Typ.)	Dimensions (A) (Max.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Panasonic Part No.
1	113	141	170	4.75	5.10	5.35	100mA	—	6.0	P11447-ND	7.44	5.45	5.10	EHD-RD3303
2	113	141	195	18.5	20	21.5	200mA	4.3	6.0	P13454-ND◆	7.18	6.11	5.75	EHD-RD3357
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P11449-ND	7.19	6.12	5.76	EHD-RD3362A
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P13452-ND◆	6.46	5.50	5.18	EHD-RD3362B
	-113	-141	-170	-11.0	-12.0	-13.0	-250mA	4.3	7.0	P13453-ND◆	8.56	7.28	6.85	EHD-RD3376
	-113	-141	-170	-31.5	-32.0	-32.5	-100mA	6.5	8.0	P11450-ND	4.32	3.68	3.46	EHD-RD3470
	-113	-141	-170	-31.4	-32.0	-32.6	-150mA	6.5	9.0	P11451-ND	4.50	3.83	3.61	EHD-RD3471
	-113	-141	-200	-22.5	-24.0	-25.5	-180mA	4.3	6.0	P11452-ND	4.64	3.95	3.71	EHD-RD3363
	-113	-141	-170	-11.0	-12.0	-13.0	-200mA	4.3	6.0	P11453-ND	5.47	4.65	4.38	EHD-RD3320
3	-113	-141	-170	-4.75	-5.10	-5.35	-30mA	—	—	P11455-ND	5.29	4.50	4.23	EHD-RD3306
4	90	141	170	11.0	12.0	13.0	100mA	7.2	10.0	P11456-ND◆	5.44	4.63	4.36	EHD-RD3323
	113	141	170	18.5	20.0	21.5	100mA	7.2	10.0	P11457-ND	7.77	6.61	6.22	EHD-RD3353
5	225	310	391	22.0	24.0	26.0	100mA	4.7	7.0	P11458-ND	7.32	6.23	5.86	EHD-RD3360
6	225	282	338	11.0	12.0	13.0	400mA	4.7	7.0	P11459-ND	9.63	8.19	7.71	EHD-RD3371
	225	282	338	23.0	24.0	25.0	400mA	4.7	7.0	P11460-ND	8.13	6.92	6.51	EHD-RD3364A
7	113	141	170	18.5	20	21.5	80mA	7.2	10	P13451-ND◆	13.82	11.75	11.06	EHD-RD3356

◆ *RoHS Compliant*

Enclosed Switching Power Supplies — SP and SPN SERIES Universal Input

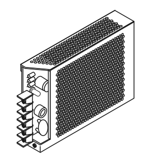

Features:

• Universal Input (AC85-264V) • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C ~ 60°C • Lightweight Construction • Metal Chassis with Cover • 3 Year Factory Warranty

General Specifications:

• Input Frequency: 50/60Hz (47-63Hz) • Output Adjust Range: ±10% • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery)

Note: For safety and EMI certifications please see Digi-Key website for data sheet.

Single Output

Input Voltage	Input Current A(typ)	Output Voltage (VDC)	Output Current (A)		Dimensions Inch (mm) H x W x D	Digi-Key Part No.	Price Each		Volgen Part No.
			@100V	@230V			1	10	
SPN15 — 15 Watts									
85-264	1-1.3	5	3.0	3.6	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1060-ND	44.33	40.53	SPN15-05S
	1-1.3	12	1.25	1.5		62-1061-ND	44.33	40.53	SPN15-12S
	1-1.3	15	1.0	1.2		62-1062-ND	44.69	40.86	SPN15-15S
	1-1.3	24	0.65	0.8		62-1063-ND	44.33	40.53	SPN15-24S
	1-1.3	48	0.3	0.4		62-1064-ND	44.33	40.53	SPN15-48S
SPN30 — 30 Watts									
85-264	1-1.3	5	6.0	6.0	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1065-ND	56.00	51.20	SPN30-05S
	1-1.3	12	2.6	3.0		62-1066-ND	56.00	51.20	SPN30-12S
	1-1.3	15	2.1	2.5		62-1067-ND	56.00	51.20	SPN30-15S
	1-1.3	24	1.4	1.5		62-1068-ND	56.00	51.20	SPN30-24S
	1-1.3	48	0.7	0.8		62-1069-ND	56.00	51.20	SPN30-48S
SPN50 — 50 Watts									
85-264	1-1.3	12	4.2	5	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1071-ND	71.17	65.08	SPN50-12S
	1-1.3	24	2.1	2.5		62-1072-ND	71.17	65.08	SPN50-24S

Input Voltage	Input Current A(typ)	Output Voltage (VDC)	Output Current (A)		Dimensions Inch (mm) H x W x D	Digi-Key Part No.	Price Each		Volgen Part No.
			@100V	@230V			1	10	
SPN75 — 75 Watts									
85-264	0.55-1.0	5	15.0	15.0	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1040-ND	106.05	96.96	SPN75-05S
	0.55-1.0	12	6.5	6.5		62-1041-ND	106.05	96.96	SPN75-12S
	0.55-1.0	15	5.2	5.2		62-1093-ND	106.05	96.96	SPN75-15S
	0.55-1.0	24	3.2	3.2		62-1042-ND	106.05	96.96	SPN75-24S
SPN100 — 100 Watts									
85-264	0.66-1.3	5	20.0	20.0	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1044-ND	141.05	128.96	SPN100-05S
	0.66-1.3	12	8.6	8.6		62-1045-ND	141.05	128.96	SPN100-12S
	0.66-1.3	15	7.0	7.0		62-1046-ND	141.05	128.96	SPN100-15S
	0.66-1.3	24	4.4	4.4		62-1047-ND	141.05	128.96	SPN100-24S
	0.66-1.3	48	2.2	2.2		62-1048-ND	141.05	128.96	SPN100-48S
SPN150 — 150 Watts									
85-264	1.00-1.3	5	30.0	30.0	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1049-ND	169.63	155.09	SPN150-05S
	1.00-1.3	12	13.0	13.0		62-1050-ND	169.63	155.09	SPN150-12S
	1.00-1.3	15	10.0	10.0		62-1092-ND	169.63	155.09	SPN150-15S
	1.00-1.3	24	6.5	6.5		62-1051-ND	169.63	155.09	SPN150-24S
	1.00-1.3	48	3.3	3.3		62-1052-ND	169.63	155.09	SPN150-48S

Triple Output (no minimum load required)

Input Voltage	Output 1	Output 2	Output 3	Dimensions Inch (mm) H x W x D	Digi-Key Part No.	Price Each 1	10	Volgen Part No.
SP15U — 15 Watts								
85-264	5V @ 2.0A	12V @ .50A	-12V @ .50A	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1088-ND	76.77	70.20	SP15U-0522T
	5V @ 2.0A	15V @ .45A	-15V @ .45A	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1074-ND	85.99	78.62	SP15U-0533T
SP30U — 30 Watts								
85-264	5V @ 4.0A	12V @ 1.2A	-12V @ .60A	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1089-ND	98.23	89.81	SP30U-0522T
	5V @ 4.0A	15V @ 1.0A	-15V @ .50A	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1075-ND	98.23	89.81	SP30U-0533T
SP50U — 50 Watts								
85-264	5V @ 6.0A	12V @ 2.0A	-12V @ 1.0A	6.46 x 3.66 x 1.30 (164 x 93 x 33)	62-1090-ND	142.80	130.56	SP50U-0522T
	5V @ 6.0A	15V @ 1.4A	-15V @ 1.0A	6.46 x 3.66 x 1.30 (164 x 93 x 33)	62-1091-ND	142.80	130.56	SP50U-0533T

Open Frame Power Supplies

KR SERIES (PC Mount) — Single/Dual Output

KR Series

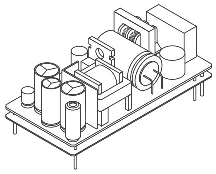

Features:

• Universal Input (AC85-264V) • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 10°C ~ 70°C • Lightweight Construction • 3 Year Factory Warranty

General Specifications:

• Input Frequency: 50/60Hz (47-63 Hz) • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery)

Note: For safety and EMI certifications please see Digi-Key website for data sheet.

Watt	Input Voltage	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) W x L x D	Digi-Key Part No.	Price Each 1	10	Volgen Part No.
Single Output								
10	85-264	5	2.00	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1078-ND	23.92	21.88	KRS10F-05
	85-264	12	0.84	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1079-ND	23.92	21.88	KRS10F-12
	85-264	15	0.65	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1080-ND	23.92	21.88	KRS10F-15
	85-264	24	0.42	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1081-ND	23.92	21.88	KRS10F-24
25	85-264	12	2.1	1.61 x 3.35 x .91 (41 x 85 x 23)	62-1098-ND	46.31	42.35	KRS25F-12

(Continued)

Open Frame Power Supplies

KR SERIES (PC Mount) — Single/Dual Output *(Cont.)*

Watt	Input Voltage	Output Voltage (VDC)	Output Current (mA)		Dimensions Inch (mm) W x L x D	Digi-Key Part No.	Price Each		Volgen Part No.
			100VAC	230VAC			1	10	
Dual Output									
10	85-264	±12	42 ~ 420	50 ~ 500	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1095-ND	27.44	25.09	KRD10F-1212
	85-264	±15	35 ~ 350	42 ~ 420	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1094-ND	27.44	25.09	KRD10F-1515

DC/DC Converters

MS Series 15 Watt

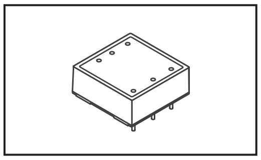

Features: • Ultra compact size • Remote On/Off • High Efficiency • 3 year warranty ***Note:*** For safety and EMI certifications please see Digi-Key website for data sheet.

Single Output

Input Voltage	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) W x H x D	Digi-Key Part No.	Price Each		Volgen Part No.
					1	10	
18-36	3.3	0-3.5	1.0 x 0.4 x 1.0 (25.4 x 10 x 25.4)	62-1101-ND	43.96	40.20	MSS15-2403
36-75	12	0-1.25	1.0 x 0.4 x 1.0 (25.4 x 10 x 25.4)	62-1107-ND	43.96	40.20	MSS15-4812

ABRACON CORPORATION
The Power of Linking Together

NEW! ABPSM-ULN-A Ultra Low Noise Power Supply

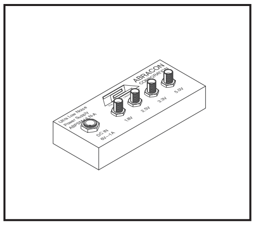

Key Features:

• AC Adapter Input Voltage 100VAC ~ 240VAC; 50Hz and 60Hz cycles - World Wide Capability • Four DC Output Ports: 1.8V, 2.5V, 3.3V and 5.0V • Current Sourcing Capability: 120mA maximum each port • Ultra Low Noise: <25nV/√Hz@1kHz offset • Convenient Ultra Low Noise Solution offering most common bias levels • Portable and light weight • Low cost

Applications:

• Lab grade power supply designed to replace bulky and noisy supplies for every day use • A must have for noise sensitive measurements such as: S/N ratio, Spectral Purity, Jitter, Phase Noise and Harmonic Distortion • Ideal for testing circuits including: Audio, RF, Microwave, Medical Diagnostic, Jitter Sensitive Digital

535-10307-ND (ABPSM-ULN-A) Power Supply Module **$395.38**

CUI INC

Switching and Linear Power Supply

Fig. 1 — Switching Power Supply — USB A

SPECIFICATIONS:
- Input Voltage Range: 90V ~ 264VAC
- Frequency Range: 47Hz ~ 63Hz
- Operating Temperature: 0°C ~ 40°C

Safety Requirements/EMI Standards:
Please see data sheet on Digi-Key website.

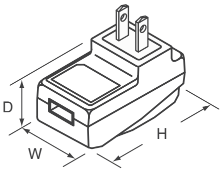

Fig. 2 — Linear Power Supply — US/Canada Transformer

SPECIFICATIONS:
- Rated Input Voltage: 120 VAC

• Safety Requirements:
Please see data sheet on Digi-Key website.

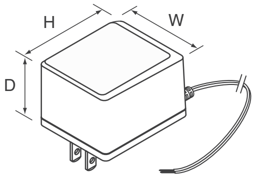

WE SELL ENERGY STAR

EISA COMPLIANT

Note: Input power accessories are sold separately.

Fig.	Ratings			Dimensions — Inches (mm) H x W x D	Cord Plug Size	Digi-Key Part No.	Price Each				CUI Part No.
	Voltage	mA	Regulation				1	10	50	100	
Switching Power Supply — USB A — Level IV Efficiency											
1	5VDC	500	±0.3V	2.40 x 1.30 x 1.38 (61 x 33 x 35)	USB A	T1002-ND	7.14	6.79	6.25	5.97	EPS050050U-I38-SZ
	5VDC	1,000	±5%	2.87 x 1.14 x 1.75 (73 x 29 x 45)	USB A	T1003-ND	8.50	8.08	7.44	7.10	EPS050100U-I38-SZ
Linear Power Supply — US/Canada Transformer — Level IV Efficiency											
2	9VAC	500	±5%	2.47 x 2.01 x 1.65 (63 x 51 x 42)	S/T†	T1004-ND	7.56	6.05	5.29	5.04	EPA090050-S/T-SZ
	9VAC	1,000	±5%	2.60 x 1.97 x 1.60 (66 x 50 x 41)	S/T†	T1005-ND	8.40	6.72	5.88	5.59	EPA090100-S/T-SZ
	12VAC	500	±5%	2.47 x 2.01 x 1.65 (63 x 51 x 42)	S/T†	T1007-ND	8.10	6.48	5.67	5.40	EPA120050-S/T-SZ
	12VAC	1,000	±5%	3.21 x 2.31 x 1.93 (82 x 59 x 49)	S/T†	T1008-ND	11.52	9.22	8.06	7.68	EPA120100-S/T-SZ
	24VAC	500	±5%	3.21 x 2.31 x 1.93 (82 x 59 x 49)	S/T†	T1009-ND	11.77	9.42	8.24	7.84	EPA240050-S/T-SZ

† "S/T" = Stripped/Tinned

Wall and Desktop Transformers

EISA COMPLIANT

The Energy Independence and Security Act (EISA) OF 2007 mandates that external power supplies sold in the U.S. meet both a minimum efficiency percentage based on rated output wattage, and a maximum power output of 0.5W in a no-load condition. All CUI Inc EPS, ETS, EMS and EMT series models meet or exceed EISA 2007 standards, also referred to as "level IV," and are legal for use in all 50 states and territories. To address upcoming energy efficiency standards, including the **European Union's Eco-design Directive (2005/32/EC)**, CUI has released a full line of "level V" high efficiency power adapters. For further information, please view the *External Power Supply Efficiency Regulations* product training module available on Digi-Key's website.

Fig. 1 — Multi-Plug

FEATURES:
• Interchangeable AC plug • Universal Input: 90 ~ 264VAC • Continuous short circuit protection • Conductive EMI meets CISPR/FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Note: For Safety and EMC specifications please see series data sheets.

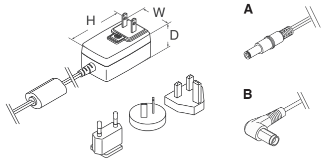

Fig. 2 — 6, 12, 15 and 24 Watt

FEATURES:
6 Watt: Class 2 and UL1310 for linear power supply replacement use. Input: 100 ~ 120VAC • Over current protection • Continuous short circuit protection • EMI meets FCC Class B • Operating Temperature: 0°C ~ 40°C **Safety Requirements:** (1) UL1310 (2) cUL1310 **12, 15 and 24 Watt:** Universal Input: 90 ~ 264VAC • Over current protection • Continuous short circuit protection • EMI/EMC meets FCC Class B, VCCI-II • High efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C ***Note:*** For Safety and EMC specifications please see series data sheets.

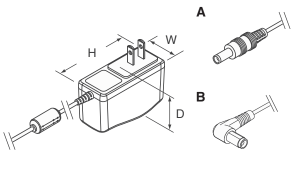

Fig. 3 — 12 and 60 Watt

FEATURES:
• Universal Input: 90 ~ 264VAC • Over voltage protection • Continuous short circuit protection • EMI meets FCC Class B, VCCI-II • High Efficiency: 85% typical • Operating Temperature: 0°C ~ 40°C
Note: For Safety and EMC specifications please see series data sheets.

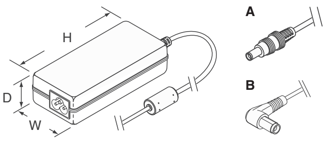

Fig. 4 — 24 Watt

FEATURES:
• Universal Input: 90 ~ 264VAC • Over current protection • Continuous short circuit protection • EMI/EMC meets FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Note: For Safety and EMC specifications please see series data sheets.

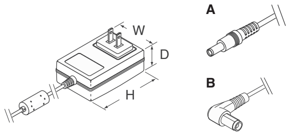

Fig.	Ratings			Dimensions — Inches (mm) H x W x D	Cord Plug Size (mm)	Digi-Key Part No.	Price Each				CUI Part No
	Voltage	mA	Regulation				1	10	50	100	
Multi-Plug — Level IV Efficiency											
1A	5VDC	1,200	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T946-P5P-ND	13.26	12.27	11.61	10.61	EMS050120-P5P-SZ
	5VDC	3,200	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T377-P5P-ND	18.30	17.39	16.01	15.24	EMS050320-P5P-SZ
	6VDC	1,000	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T947-P5P-ND	13.26	12.27	11.61	10.61	EMS060100-P5P-SZ
	6VDC	3,000	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T378-P5P-ND	18.30	17.39	16.01	15.24	EMS060300-P5P-SZ
	9VDC	660	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T948-P5P-ND	13.26	12.27	11.61	10.61	EMS090066-P5P-SZ
	9VDC	2,000	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T379-P5P-ND	18.30	17.39	16.01	15.24	EMS090200-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T949-P5P-ND	13.26	12.27	11.61	10.61	EMS120050-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.5▲	T945-P6P-ND	13.26	12.27	11.61	10.61	EMS120050-P6P-SZ
	12VDC	1,500	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T380-P5P-ND	18.30	17.39	16.01	15.24	EMS120150-P5P-SZ
	15VDC	400	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T950-P5P-ND	13.26	12.27	11.61	10.61	EMS150040-P5P-SZ
	15VDC	1,200	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T381-P5P-ND	18.30	17.39	16.01	15.24	EMS150120-P5P-SZ
	18VDC	1,000	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T382-P5P-ND	18.30	17.39	16.01	15.24	EMS180100-P5P-SZ
	24VDC	750	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T383-P5P-ND	18.30	17.39	16.01	15.24	EMS240075-P5P-SZ
Multi-Plug — Right Angle — Level IV Efficiency											
1B	5VDC	1,200	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1039-P5RP-ND	13.26	12.27	11.61	10.61	EMS050120-P5RP-SZ
	9VDC	2,000	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T1041-P5RP-ND	18.30	17.39	16.02	15.25	EMS090200-P5RP-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1043-P5RP-ND	13.26	12.27	11.61	10.61	EMS120050-P5RP-SZ
	12VDC	1,500	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T1044-P5RP-ND	18.30	17.39	16.02	15.25	EMS120150-P5RP-SZ
NEW! Multi-Plug — Level V Efficiency NEW!											
1A	5VDC	1,200	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1084-P5P-ND	14.26	13.55	12.48	11.88	EMSA050120-P5P-SZ
	5VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1088-P5P-ND	21.17	18.82	16.47	15.68	EMSA050300-P5P-SZ
	6VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1089-P5P-ND	21.17	18.82	16.47	15.68	EMSA060300-P5P-SZ
	9VDC	670	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1085-P5P-ND	14.26	13.55	12.48	11.88	EMSA090067-P5P-SZ
	9VDC	2,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1090-P5P-ND	21.17	18.82	16.47	15.68	EMSA090200-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1086-P5P-ND	14.26	13.55	12.48	11.88	EMSA120050-P5P-SZ
	12VDC	1,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1091-P5P-ND	21.17	18.82	16.47	15.68	EMSA120150-P5P-SZ
	12VDC	2,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1096-P5P-ND	24.62	21.88	19.15	18.23	EMSA120250-P5P-SZ
	12VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1099-P5P-ND	26.87	23.88	20.90	19.90	EMSA120300-P5P-SZ
	15VDC	400	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1087-P5P-ND	14.26	13.55	12.48	11.88	EMSA150040-P5P-SZ
	15VDC	1,200	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1092-P5P-ND	21.17	18.82	16.47	15.68	EMSA150120-P5P-SZ
	18VDC	1,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1093-P5P-ND	21.17	18.82	16.47	15.68	EMSA180100-P5P-SZ
	20VDC	1,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1097-P5P-ND	24.62	21.88	19.15	18.23	EMSA200150-P5P-SZ
	20VDC	2,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1100-P5P-ND	26.87	23.88	20.90	19.90	EMSA200200-P5P-SZ
	24VDC	750	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1094-P5P-ND	21.17	18.82	16.47	15.68	EMSA240075-P5P-SZ
	24VDC	1,250	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1098-P5P-ND	24.62	21.88	19.15	18.23	EMSA240125-P5P-SZ
	24VDC	1,670	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1101-P5P-ND	26.87	23.88	20.90	19.90	EMSA240167-P5P-SZ
NEW! Multi-Plug — Base Only (Inlet Blades Sold Seperately) — Level V Efficiency NEW!											
1A	5VDC	1,200	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1102-P5P-ND	10.26	9.75	8.98	8.55	EMSA050120K-P5P-SZ
	5VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1106-P5P-ND	16.67	14.82	12.97	12.35	EMSA050300K-P5P-SZ
	6VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1107-P5P-ND	16.67	14.82	12.97	12.35	EMSA060300K-P5P-SZ
	9VDC	670	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1103-P5P-ND	10.26	9.75	8.98	8.55	EMSA090067K-P5P-SZ
	9VDC	2,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1108-P5P-ND	16.67	14.82	12.97	12.35	EMSA090200K-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1104-P5P-ND	10.26	9.75	8.98	8.55	EMSA120050K-P5P-SZ
	12VDC	1,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1109-P5P-ND	16.67	14.82	12.97	12.35	EMSA120150K-P5P-SZ
	12VDC	2,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1113-P5P-ND	20.12	17.88	15.65	14.90	EMSA120250K-P5P-SZ
	12VDC	3,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1116-P5P-ND	22.37	19.88	17.40	16.56	EMSA120300K-P5P-SZ
	15VDC	400	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T1105-P5P-ND	10.26	9.75	8.98	8.55	EMSA150040K-P5P-SZ
	15VDC	1,200	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1110-P5P-ND	16.67	14.82	12.97	12.35	EMSA150120K-P5P-SZ
	18VDC	1,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1111-P5P-ND	16.67	14.82	12.97	12.35	EMSA180100K-P5P-SZ
	20VDC	1,500	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1114-P5P-ND	20.12	17.88	15.65	14.90	EMSA200150K-P5P-SZ
	20VDC	2,000	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1117-P5P-ND	22.37	19.88	17.40	16.56	EMSA200200K-P5P-SZ
	24VDC	750	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1112-P5P-ND	16.67	14.82	12.97	12.35	EMSA240075K-P5P-SZ
	24VDC	1,250	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1115-P5P-ND	20.12	17.88	15.65	14.90	EMSA240125K-P5P-SZ
	24VDC	1,670	±5%	2.91 x 1.71 x 1.39 (74 x 43.5 x 35.3)	2.1▲	T1118-P5P-ND	22.37	19.88	17.40	16.56	EMSA240167K-P5P-SZ
NEW! Individual Inlet Blades for Level V Base NEW!											
—	Inlet Blade for Australia					T1123-AU-ND	1.81	1.71	1.58	1.43	EMS-AU
	Inlet Blade for China					T1123-CC-ND	.68	.65	.60	.54	EMS-CC
	Inlet Blade for Europe					T1123-EU-ND	.82	.78	.72	.65	EMS-EU
	Inlet Blade for United Kingdom					T1123-UK-ND	2.05	1.95	1.80	1.62	EMS-UK
	Inlet Blade for United States					T1123-US-ND	.68	.65	.60	.54	EMS-US
6 Watt Switching Wall Mount — Level V Efficiency											
2A	4.5VDC	1,000	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	1.3▲	T976-P7P-ND	7.16	6.80	6.27	5.96	EPS045100-P7P
	5VDC	1,000	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.5‡	T977-P6P-ND	7.16	6.80	6.27	5.96	EPS050100-P6P
	6VDC	1,000	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	1.3▲	T978-P7P-ND	7.16	6.80	6.27	5.96	EPS060100-P7P
	9VDC	660	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	3.5	T979-P1P-ND	6.98	6.63	6.11	5.81	EPS090066-P1P
	9VDC	660	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T980-P5P-ND	6.98	6.63	6.11	5.81	EPS090066-P5P
	9VDC	660	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	1.3▲	T981-P7P-ND	6.98	6.63	6.11	5.81	EPS090066-P7P
	12VDC	500	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	3.5	T982-P1P-ND	6.98	6.63	6.11	5.81	EPS120050-P1P
	12VDC	500	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T983-P5P-ND	6.98	6.63	6.11	5.81	EPS120050-P5P
	12VDC	500	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	1.3▲	T984-P7P-ND	6.98	6.63	6.11	5.81	EPS120050-P7P

▲ 9.5mm Long Plugs ‡ 12mm Long Plugs † Output cord is 1500mm in length

Note: ***For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

(Continued)

M

Fig. 5 — 25 Watt

FEATURES:
- Universal Input: 90 ~ 255VAC • Over voltage protection • Continuous short circuit protection • EMI meets FCC Class B, VCCI-II • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Note: For Safety and EMC specifications please see series data sheets.

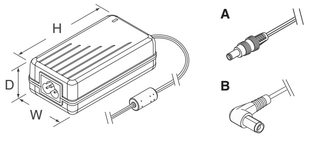

Fig. 6 — 40 Watt

FEATURES:
- Universal Input: 90 ~ 255VAC • Over voltage protection • Continuous short circuit protection • EMI meets FCC Class B • High Efficiency: 80% typical • Operating Temperature: 0°C ~ 40°C

Note: For Safety and EMC specifications please see series data sheets.

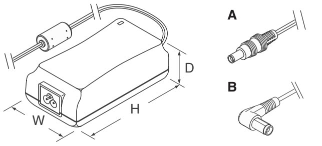

Fig. 7 — Right Angle Output Connector

FEATURES:
- 100 ~ 120 VAC Input • Regulated Output Voltage • Over-load protected • Short-circuit protected • UL/cUL Certified and FCC class B compliant

Note: For Safety and EMC specifications please see series data sheets.

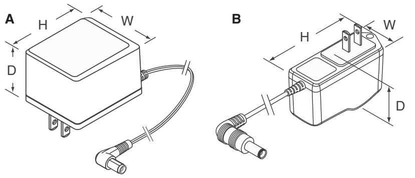

Fig. 8 — 120 ~ 150 Watt Desktop *NEW!*

FEATURES:
- Universal Input: 90 ~ 264VAC • Regulated Output Voltage • Active PFC • Short-circuit, over load protection • LED indicator for power on • Meets EISA efficiency regulations • Operating Temperature: 0°C ~ 40°C

Note: For Safety and EMC specifications please see series data sheets.

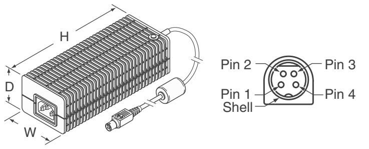

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI
	Voltage	mA	Regulation	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No
2A	15VDC	400	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T985-P5P-ND	6.98	6.63	6.11	5.81	EPS150040-P5P
	18VDC	330	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T986-P5P-ND	6.98	6.63	6.11	5.81	EPS180033-P5P
2B	5VDC	1,000	±5%	2.44 x 1.06 x 1.65 (62 x 26.8 x 42)	2.1‡	T1038-P5RP-ND	7.16	6.81	6.27	5.97	EPS050100-P5RP
6 Watt Switching Wall Mount — Level V Efficiency											
2A	3VDC	1,000	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	1.3▲	T975-P7P-ND	7.16	6.80	6.27	5.96	EPS030100-P7P
	24VDC	250	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T987-P5P-ND	6.98	6.63	6.11	5.81	EPS240025-P5P
NEW! 12 Watt Switching Wall Mount — Level V Efficiency NEW!											
2A	5VDC	2,500	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.1▲	T1058-P5P-ND	18.29	14.63	12.80	12.19	EPSA050250U-P5P-EJ
	6VDC	2,000	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.1▲	T1059-P5P-ND	18.29	14.63	12.80	12.19	EPSA060200U-P5P-EJ
	9VDC	1,300	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.1▲	T1060-P5P-ND	18.29	14.63	12.80	12.19	EPSA090130U-P5P-EJ
	12VDC	1,000	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.1▲	T1061-P5P-ND	18.29	14.63	12.80	12.19	EPSA120100U-P5P-EJ
	12VDC	1,000	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.5▲	T1063-P6P-ND	18.29	14.63	12.80	12.19	EPSA120100U-P6P-EJ
2B	12VDC	1,000	±5%	2.96 x 1.38 x 2.17 (75 x 35 x 55)	2.1▲	T1062-P5RP-ND	18.29	14.63	12.80	12.19	EPSA120100U-P5RP-EJ
NEW! 12 Watt Switching Desktop — Level V Efficiency NEW!											
3A	5VDC	2,000	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1064-P5P-ND	17.91	17.01	15.67	14.92	ETSA050200UDC-P5P-SZ
	6VDC	2,000	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1065-P5P-ND	17.91	17.01	15.67	14.92	ETSA060200UDC-P5P-SZ
	9VDC	1,330	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1066-P5P-ND	17.91	17.01	15.67	14.92	ETSA090133UDC-P5P-SZ
	12VDC	1,000	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1067-P5P-ND	17.91	17.01	15.67	14.92	ETSA120100UDC-P5P-SZ
	15VDC	800	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1068-P5P-ND	17.91	17.01	15.67	14.92	ETSA150080UDC-P5P-SZ
	18VDC	660	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1069-P5P-ND	17.91	17.01	15.67	14.92	ETSA180066UDC-P5P-SZ
	24VDC	500	±5%	2.96 x 1.87 x 1.04 (75 x 47.5 x 26.5)	2.1▲	T1070-P5P-ND	17.91	17.01	15.67	14.92	ETSA240050UDC-P5P-SZ
15 Watt Switching Wall Mount — Level IV Efficiency											
2A	5VDC	2,600	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T988-P5P-ND	16.88	13.50	11.81	11.25	EPS050260UH-P5P-SZ
	6VDC	2,500	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T989-P5P-ND	16.88	13.50	11.81	11.25	EPS060250UH-P5P-SZ
	9VDC	1,660	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T990-P5P-ND	16.88	13.50	11.81	11.25	EPS090166UH-P5P-SZ
	12VDC	1,250	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T991-P5P-ND	16.88	13.50	11.81	11.25	EPS120125UH-P5P-SZ
	15VDC	1,000	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T992-P5P-ND	16.88	13.50	11.81	11.25	EPS150100UH-P5P-SZ
	18VDC	830	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T993-P5P-ND	16.88	13.50	11.81	11.25	EPS180083UH-P5P-SZ
	24VDC	630	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T994-P5P-ND	16.88	13.50	11.81	11.25	EPS240063UH-P5P-SZ
2B	6VDC	2,500	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T1040-P5RP-ND	16.88	13.50	11.82	11.25	EPS060250UH-P5RP-SZ
	15VDC	1,000	±5%	2.83 x 1.38 x 1.87 (72 x 35 x 47.6)	2.1‡	T1047-P5RP-ND	16.88	13.50	11.82	11.25	EPS150100UH-P5RP-SZ
NEW! 24 Watt Switching Wall Mount — Level V Efficiency NEW!											
2A	12VDC	2,000	±5%	3.15 x 1.38 x 2.11 (80 x 35 x 53.6)	2.1▲	T1071-P5P-ND	21.13	16.91	14.79	14.08	EPSA120200U-P5P-SZ
	15VDC	1,600	±5%	3.15 x 1.38 x 2.11 (80 x 35 x 53.6)	2.1▲	T1072-P5P-ND	21.13	16.91	14.79	14.08	EPSA150160U-P5P-SZ
	24VDC	1,000	±5%	3.15 x 1.38 x 2.11 (80 x 35 x 53.6)	2.1▲	T1073-P5P-ND	21.13	16.91	14.79	14.08	EPSA240100U-P5P-SZ
2B	24VDC	1,000	±5%	3.15 x 1.38 x 2.11 (80 x 35 x 53.6)	2.1▲	T1074-P5RP-ND	21.13	16.91	14.79	14.08	EPSA240100U-P5RP-SZ
24 Watt Switching Wall Mount											
4A	5VDC	4,000	±10%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T995-P5P-ND	18.38	14.70	12.87	12.21	EPS050400U-P5P-KH
	9VDC	2,500	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T997-P5P-ND	18.38	14.70	12.87	12.21	EPS090250U-P5P-KH
	12VDC	2,000	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T998-P5P-ND	18.38	14.70	12.87	12.21	EPS120200U-P5P-KH
	15VDC	1,600	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T999-P5P-ND	18.38	14.70	12.87	12.21	EPS150160U-P5P-KH
4B	24VDC	1,000	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T1048-P5RP-ND	18.38	14.70	12.87	12.21	EPS240100U-P5RP-KH
25 Watt Desktop — Level IV Efficiency											
5A	5VDC	4,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T951-P5P-ND	19.80	18.81	17.33	16.50	ETS050400UTC-P5P-SZ
	6VDC	3,300	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T952-P5P-ND	19.80	18.81	17.33	16.50	ETS060330UTC-P5P-SZ
	9VDC	2,200	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T953-P5P-ND	19.80	18.81	17.33	16.50	ETS090220UTC-P5P-SZ
	12VDC	2,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T954-P5P-ND	19.80	18.81	17.33	16.50	ETS120200UTC-P5P-SZ
	15VDC	1,330	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T955-P5P-ND	19.80	18.81	17.33	16.50	ETS150133UTC-P5P-SZ
	18VDC	1,100	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T956-P5P-ND	19.80	18.81	17.33	16.50	ETS180110UTC-P5P-SZ
	24VDC	1,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T957-P5P-ND	19.80	18.81	17.33	16.50	ETS240100UTC-P5P-SZ
5B	12VDC	2,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T1045-P5RP-ND	19.80	18.81	17.33	16.50	ETS120200UTC-P5RP-SZ
40 Watt Desktop — Level IV Efficiency											
6A	9VDC	4,000	±5%	4.23 x 2.20 x 1.33 (107.5 x 56 x 33.7)	2.1‡	T959-P5P-ND	25.50	24.23	22.32	21.25	ETS090400UTC-P5P-SZ
	12VDC	4,160	±5%	4.23 x 2.20 x 1.33 (107.5 x 56 x 33.7)	2.1‡†	T1010-P5P-ND	25.50	24.23	22.31	21.24	ETS120416UTC-P5P-SZ
	15VDC	2,700	±5%	4.20 x 2.20 x 1.33 (107.5 x 56 x 33.7)	2.1‡	T961-P5P-ND	25.50	24.23	22.32	21.25	ETS150270UTC-P5P-SZ
	24VDC	1,700	±5%	4.20 x 2.20 x 1.33 (107.5 x 56 x 33.7)	2.1‡	T962-P5P-ND	25.50	24.23	22.32	21.25	ETS240170UTC-P5P-SZ
6B	9VDC	4,000	±5%	4.20 x 2.20 x 1.33 (107.5 x 56 x 33.7)	2.1‡	T1042-P5RP-ND	25.50	24.23	22.32	21.25	ETS090400UTC-P5RP-SZ
60 Watt Desktop — Level IV Efficiency											
3A	12VDC	5,000	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T963-P5P-ND	32.90	31.26	28.79	27.41	ETS120500UTC-P5P-SZ
	15VDC	4,000	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T964-P5P-ND	32.90	31.26	28.79	27.41	ETS150400UTC-P5P-SZ
	19VDC	3,150	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T965-P5P-ND	32.90	31.26	28.79	27.41	ETS190315UTC-P5P-SZ
	24VDC	2,500	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T966-P5P-ND	32.90	31.26	28.79	27.41	ETS240250UTC-P5P-SZ
3B	12VDC	5,000	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T1046-P5RP-ND	32.90	31.26	28.79	27.41	ETS120500UTC-P5RP-SZ
	24VDC	2,500	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1‡	T1049-P5RP-ND	32.90	31.26	28.79	27.41	ETS240250UTC-P5RP-SZ
Right Angle Output Connectors — Level V Efficiency											
7A	12VAC	1,000	±5%	3.21 x 2.31 x 1.93 (81.6 x 58.7 x 49.1)	2.1‡	T1017-P5R-ND	11.53	9.22	8.07	7.66	EPA120100-P5R-SZ
	24VAC	500	±5%	3.21 x 2.31 x 1.93 (81.6 x 58.7 x 49.1)	2.1‡	T1018-P5R-ND	11.78	9.42	8.25	7.82	EPA240050-P5R-SZ
Right Angle Output Connectors — Level IV Efficiency											
7B	6VDC	1,000	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T1019-P5RP-ND	8.95	7.16	6.27	5.95	EPS060100-P5RP
	9VDC	660	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T1020-P5RP-ND	8.73	6.98	6.11	5.80	EPS090066-P5RP
	12VDC	500	±5%	2.48 x 1.05 x 1.70 (63 x 26.6 x 43.3)	2.1‡	T1021-P5RP-ND	8.73	6.98	6.11	5.80	EPS120050-P5RP
NEW! 120 ~ 150 Watt Desktop — Level IV Efficiency NEW!											
8	12VDC	10,000	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1050-P51-ND	89.36	84.90	78.19	74.44	ETS1201000UC-P51-ET
	13.5VDC	8,900	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1051-P51-ND	89.36	84.90	78.19	74.44	ETS135890UC-P51-ET
	15VDC	8,300	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1052-P51-ND	89.36	84.90	78.19	74.44	ETS150830UC-P51-ET
	16VDC	8,100	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1053-P51-ND	89.36	84.90	78.19	74.44	ETS160810UC-P51-ET
	18VDC	7,500	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1054-P51-ND	90.30	85.79	79.02	75.22	ETS180750UC-P51-ET
	19VDC	7,500	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1055-P51-ND	90.30	85.79	79.02	75.22	ETS190750UC-P51-ET
	20VDC	7,100	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1056-P51-ND	90.30	85.79	79.02	75.22	ETS200710UC-P51-ET
	24VDC	6,250	±5%	6.30 x 2.56 x 1.91 (160 x 65 x 48.5)	DIN	T1057-P51-ND	90.30	85.79	79.02	75.22	ETS240625UC-P51-ET

▲ 9.5mm Long Plugs ‡ 12mm Long Plugs † Output cord is 1500mm in length

***Note:** For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.*

(Continued)

Standard Wall and Desktop Transformers

Fig. 1 — 12 Watt Power Strip Type

SPECIFICATIONS:

- Input Voltage: AC90V ~ 264V
- Frequency: 50Hz ~ 60Hz
- Minimum Load Current: 0A
- Short Circuit and Over-current Protection: Shutoff and Auto Restart

Safety Requirements: *Please see data sheet on Digi-Key website.*

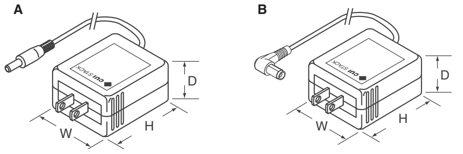

Fig. 2 — Small Desktop Series

SPECIFICATIONS:

- Input Voltage Range: AC90V ~ 264V
- Frequency: 50Hz ~ 60Hz (60 Watt Small Desktop: 47Hz ~ 63Hz)
- Minimum Load Current: 0A
- Short Circuit and Over-current Protection: Shutoff and Auto Restart

Safety Requirements: *Please see data sheet on Digi-Key website.*

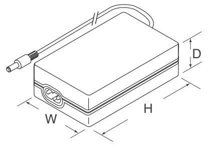

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI
	Voltage	mA	Regulation	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No.
12 Watt Power Strip Type											
1A	5VDC	2500	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1022-P5P-ND	16.63	13.30	11.64	11.08	EPS050250UPS-P5P-KH
	12VDC	1000	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1025-P5P-ND	16.63	13.30	11.64	11.08	EPS120100UPS-P5P-KH
	12VDC	1000	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1027-P6P-ND	16.63	13.30	11.64	11.08	EPS120100UPS-P6P-KH
	15VDC	800	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1028-P5P-ND	16.63	13.30	11.64	11.08	EPS150080UPS-P5P-KH
	18VDC	670	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1029-P5P-ND	16.63	13.30	11.64	11.08	EPS180067UPS-P5P-KH
	24VDC	500	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1030-P5P-ND	16.63	13.30	11.64	11.08	EPS240050UPS-P5P-KH
12 Watt Power Strip Type — Right Angle											
1B	12VDC	1,000	±5%	2.44 x 1.81 x 1.18 (62 x 46 x 30)	2.1◊	T1026-P5RP-ND	16.63	13.30	11.64	11.08	EPS120100UPS-P5RP-KH
12 Watt Small Desktop											
2	5VDC	2500	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1031-P5P-ND	16.28	15.47	14.25	13.56	ETS050250SUDC-P5P-KH
	6VDC	1750	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1032-P5P-ND	16.28	15.47	14.25	13.56	ETS060175SUDC-P5P-KH
	9VDC	1200	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1033-P5P-ND	16.28	15.47	14.25	13.56	ETS090120SUDC-P5P-KH
	12VDC	1000	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1034-P5P-ND	16.28	15.47	14.25	13.56	ETS120100SUDC-P5P-KH
	15VDC	800	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1035-P5P-ND	16.28	15.47	14.25	13.56	ETS150080SUDC-P5P-KH
	18VDC	670	±5%	2.91 x 1.85 x 1.14 (74 x 47 x 29)	2.1◊	T1036-P5P-ND	16.28	15.47	14.25	13.56	ETS180067SUDC-P5P-KH
NEW! 18 Watt Small Desktop NEW!											
2	5VDC	3,600	±5%	3.15 x 1.97 x 1.22 (80 x 50 x 31)	2.1▲	T1075-P5P-ND	22.13	17.70	15.49	14.74	ETSA050360UDC-P5P-SZ
	6VDC	3,000	±5%	3.15 x 1.97 x 1.22 (80 x 50 x 31)	2.1▲	T1076-P5P-ND	22.13	17.70	15.49	14.74	ETSA060300UDC-P5P-SZ
	12VDC	1,500	±5%	3.15 x 1.97 x 1.22 (80 x 50 x 31)	2.1▲	T1077-P5P-ND	22.13	17.70	15.49	14.74	ETSA120150UDC-P5P-SZ
	15VDC	1,200	±5%	3.15 x 1.97 x 1.22 (80 x 50 x 31)	2.1▲	T1078-P5P-ND	22.13	17.70	15.49	14.74	ETSA150120UDC-P5P-SZ
NEW! 40 Watt Small Desktop NEW!											
2	12VDC	3,300	±5%	2.97 x 1.88 x 1.11 (75.5 x 47.8 x 28.2)	2.1▲	T1079-P5P-ND	25.50	24.23	22.31	21.24	ETSA120330UDC-P5P-SZ
	19VDC	2,100	±5%	2.97 x 1.88 x 1.11 (75.5 x 47.8 x 28.2)	2.1▲	T1080-P5P-ND	25.50	24.23	22.31	21.24	ETSA190210UDC-P5P-SZ
	20VDC	2,000	±5%	2.97 x 1.88 x 1.11 (75.5 x 47.8 x 28.2)	2.1▲	T1081-P5P-ND	25.50	24.23	22.31	21.24	ETSA200200UDC-P5P-SZ
	24VDC	1,700	±5%	2.97 x 1.88 x 1.11 (75.5 x 47.8 x 28.2)	2.1▲	T1082-P5P-ND	25.50	24.23	22.31	21.24	ETSA240170UDC-P5P-SZ
	48VDC	850	±5%	2.97 x 1.88 x 1.11 (75.5 x 47.8 x 28.2)	2.1▲	T1083-P5P-ND	25.50	24.23	22.31	21.24	ETSA480085UDC-P5P-SZ
NEW! 60 Watt Small Desktop NEW!											
2	12VDC	5,000	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1▲	T1119-P5P-ND	36.25	32.22	28.20	26.84	ETSA120500UDC-P5P-SZ
	19VDC	3,420	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1▲	T1120-P5P-ND	36.25	32.22	28.20	26.84	ETSA190342UDC-P5P-SZ
	24VDC	2,700	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1▲	T1121-P5P-ND	36.25	32.22	28.20	26.84	ETSA240270UDC-P5P-SZ
	48VDC	1,250	±5%	4.57 x 1.97 x 1.22 (116 x 50 x 31)	2.1▲	T1122-P5P-ND	36.25	32.22	28.20	26.84	ETSA480125UDC-P5P-SZ

▲ 9.5mm Long Plugs ◊ 12mm Long Plugs

***Note:** For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.*

Plug Options For All CUI Supplies

Additional plug options

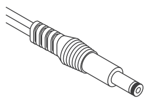

AVAILABLE! CUI INC Custom Plug Overmolding without large minimum orders and long lead times! Straight or right angle plugs are available in the following sizes: P1, P5, P6, P7, P12, P13 or P14

For additional plug and polarity options available, please call Digi-Key and request technical assistance to build your custom part number.

(Overmolding Service not available on Medical Switching Power Supplies.)

BUILD YOUR PART NUMBER: **EMT120250-**☐☐☐☐

Choose an In stock CUI Power Supply — Z
Z: special over molding code — 5, 6
Choose P1, P5, P6, P7, P12, P13 or P14 plug options — 7
If applicable: R-Right angle — R
P or N: For DC Output choose Center Positive or Negative — P, N

- Lead-Time: 4 ~ 6 weeks
- Lead time can be expedited in 3 ~ 4 weeks by air freight at an additional charge paid by the customer. Please call for more details.
- Non-Standard plug barrel lengths are available upon request
- Minimum Order: 100 pieces

P-1 (3.5mm Male)

Tip is Positive, Sleeve is Negative

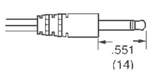

P-5 (2.1mm Female)

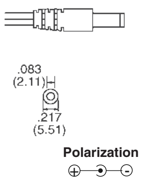

P-6 (2.5mm Female)

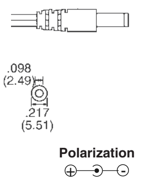

P-7 (1.3mm Female)

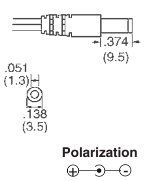

P-12 (2.35mm Female)

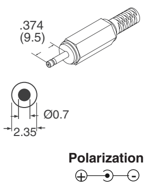

P-13 (1.7mm Female)

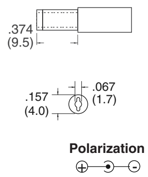

P-14 (1.7mm Female)

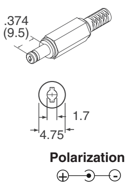

AC International Power Cords

RoHS COMPLIANT

Fig.	Description	Wire Gauge	Color	Overall Diameter Approx. (mm)	Digi-Key Part No.	Price Each				CUI Part No.
						1	10	50	100	
1	AC Cord for Europe	H05VV-F 3G 1.0mm2	Black	7.0 ±0.15	T100-DK-ND	5.68	4.54	3.97	3.77	AC7-DK
2	AC Cord for United Kingdom	H05VV-F 3G 0.75mm2	Black	6.7 ±0.15	T101-DK-ND	9.48	7.58	6.64	6.30	AC8-DK
3	AC Cord for Australia	H05VV-F 3G 0.75mm2	Black	6.7 ±0.15	T102-DK-ND	5.40	4.32	3.78	3.59	AC9-DK

Fig. 1 — AC Cord for Europe

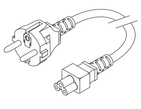

Fig. 2 — AC Cord for United Kingdom

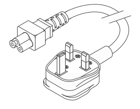

Fig. 3 — AC Cord for Australia

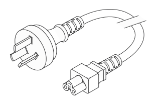

3 Watt Power Module — VSK-S3 Series

RoHS COMPLIANT

Features:

- Encapsulated, compact case
- Universal input 85 ~ 264VAC, 110 ~ 370VDC
- High efficiency
- 100kHz fixed frequency
- Fixed output voltage
- Thermal shutdown
- Output short circuit protection
- Low output ripple and noise
- Isolated output
- Two year warranty

Note: For safety and EMI certifications please see series data sheets

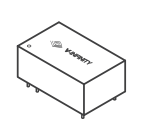

Output Power Max. (W)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
2.3	3.3	0.70	102-1801-ND	14.40	13.68	12.60	VSK-S3-3R3U
3.0	5	0.60	102-1802-ND	14.40	13.68	12.60	VSK-S3-5U
3.0	9	0.33	102-1803-ND	14.40	13.68	12.60	VSK-S3-9U
3.0	12	0.25	102-1804-ND	14.40	13.68	12.60	VSK-S3-12U
3.0	24	0.125	102-1806-ND	14.40	13.68	12.60	VSK-S3-24U

Encapsulated Chassis Mount Switching Power Supplies — FSC-S Series

RoHS COMPLIANT

Features:

• Screw terminals for easy installation • Fixed output voltage • Universal input 85 ~ 264VAC, 110 ~ 340VDC • Thermal shutdown • Output short circuit protection • Encapsulated, compact case • Low output ripple and noise • High efficiency • Isolated output • 100kHz fixed frequency • Two year warranty

Note: For safety and EMI certifications please see series data sheets.

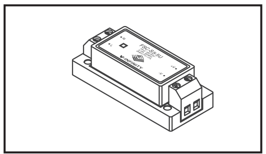

Description	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
DIN Rail Mounting Brackets					
Mounting Bracket for FSC-S5 Series	102-1833-ND	4.39	3.90	3.71	FSC-S5-DIN
Mounting Bracket for FSC-S15 Series	102-1834-ND	4.84	4.30	4.09	FSC-S15-DIN
Mounting Bracket for FSC-S30 Series	102-1835-ND	5.40	4.80	4.56	FSC-S30-DIN

Voltage (V)	Current (A)	Size (Inch) L x W	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
FSC-S5 Series							
3.3	1.25	2.835 x 1.24	102-1571-ND	28.76	28.05	27.33	FSC-S5-3R3U
5	1.0	2.835 x 1.24	102-1572-ND	28.76	28.05	27.33	FSC-S5-5U
12	0.42	2.835 x 1.24	102-1573-ND	28.76	28.05	27.33	FSC-S5-12U
15	0.33	2.835 x 1.24	102-1574-ND	28.76	28.05	27.33	FSC-S5-15U
24	0.21	2.835 x 1.24	102-1575-ND	28.76	28.05	27.33	FSC-S5-24U
FSC-S15 Series							
5	3.0	3.606 x 2.0	102-1577-ND	52.36	51.06	49.75	FSC-S15-5U
12	1.3	3.606 x 2.0	102-1578-ND	52.36	51.06	49.75	FSC-S15-12U
FSC-S30 Series							
5	6.0	4.567 x 2.311	102-1582-ND	67.34	65.66	63.98	FSC-S30-5U
12	2.5	4.567 x 2.311	102-1583-ND	67.34	65.66	63.98	FSC-S30-12U
15	2.0	4.567 x 2.311	102-1584-ND	67.34	65.66	63.98	FSC-S30-15U

5 Watt Medical Power Supplies PCB Mount

RoHS COMPLIANT

Features:

- Universal input 85 ~ 264VAC
- Designed for medical application
- Industry standard foot-print
- Efficiency up to 77%

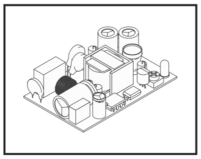

Note: For safety and EMI certifications please see data sheets

Voltage (V)	Current (A)	Load Regulation (%)	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
5	1.0	1.0	102-1475-ND	24.74	24.13	23.51	VOFM-5-5
9	0.55	1.0	102-1476-ND	24.74	24.13	23.51	VOFM-5-9
12	0.42	1.0	102-1477-ND	24.74	24.13	23.51	VOFM-5-12
18	0.28	1.0	102-1479-ND	24.74	24.13	23.51	VOFM-5-18
24	0.23	1.0	102-1480-ND	24.74	24.13	23.51	VOFM-5-24

5/15/30 Watt Power Modules — FSK-S Series

RoHS COMPLIANT

Features:

• Encapsulated, compact case • Over-temperature protection • Universal input • Built-in EMI filter on FSK-S15 and FSK-S30 series • HI-POT tested • Fixed switching frequency • Inrush current limiting • High efficiency • Over-load protection • Two year warranty

	Input Voltage Minimum	Maximum
AC	85	264
DC	110	340

Note: For safety and EMI certifications please see series data sheets

Dimensions in mm

Fig. 1

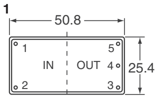

Pin Assignment	
Pin	Single Output
1	AC(N)
2	AC(L)
3	No Pin
4	GND
5	+V

Fig. 2

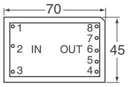

Pin Assignment	
Pin	Single Output
1	FG
2	AC(N)
3	AC(L)
4	No Pin
5	+Vout
6	No Pin
7	-Vout
8	No Pin

Fig. 3

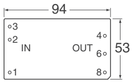

Pin Assignment	
Pin	Single Output
1	FG
2	AC(N)
3	AC(L)
4	No Connect
5	No Pin
6	+Vout
7	No Pin
8	GND

Output Voltage (VDC)	Output Power Max. (W)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
Fig. 1 — FSK-S5 Single Output Series								
3.3	4.125	1.25	102-1469-ND	19.96	19.47	18.97	17.97	FSK-S5-3R3U
5	5.0	1.0	102-1470-ND	19.96	19.47	18.97	17.97	FSK-S5-5U
12	5.0	0.42	102-1471-ND	19.96	19.47	18.97	17.97	FSK-S5-12U
15	5.0	0.33	102-1472-ND	19.96	19.47	18.97	17.97	FSK-S5-15U
24	5.0	0.21	102-1473-ND	19.96	19.47	18.97	17.97	FSK-S5-24U
Fig. 2 — FSK-S15 Single Output Series								
3.3	9.9	3.0	102-1689-ND	43.06	41.99	40.91	38.76	FSK-S15-3R3U
5	15.0	3.0	102-1164-ND	43.06	41.99	40.91	38.76	FSK-S15-5U
12	15.6	1.3	102-1165-ND	43.06	41.99	40.91	38.76	FSK-S15-12U
15	15.0	1.0	102-1166-ND	43.06	41.99	40.91	38.76	FSK-S15-15U
24	15.6	0.65	102-1167-ND	43.06	41.99	40.91	38.76	FSK-S15-24U
Fig. 3 — FSK-S30 Single Output Series								
24	30	1.25	102-1737-ND	58.34	56.89	55.43	52.51	FSK-S30-24U

10/15/25/45/65/80 Watt Open Frame Switching Power Supplies

RoHS COMPLIANT

Features: • Output over-current protected • Output over-voltage protected • Universal input voltage: 85 ~ 264VAC, 47 ~ 63Hz • Compact size • Output voltage trimable ±5% • Two year warranty
Note: For safety and EMI certifications please see data sheets

Fig. 1 ***NEW!***

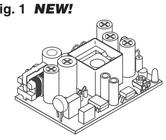

L x W: 2.5" x 1.7"

Fig. 2

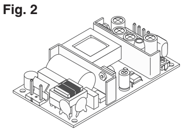

L x W: 3.5" x 2.0"

Fig. 3

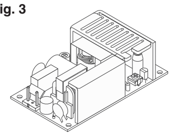

L x W: 4.0" x 2.0"

Fig.	Volt-age (V)	Current (A)	Mating Connectors Housing Input	Housing Output	Contacts	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
1	3.3	2.4	—	—	—	102-2038-ND ***NEW!***	16.98	15.44	13.12	VOF-10-3.3
	5	2.0	—	—	—	102-2039-ND ***NEW!***	16.98	15.44	13.12	VOF-10-5
	12	0.83	—	—	—	102-2040-ND ***NEW!***	16.98	15.44	13.12	VOF-10-12
	15	0.67	—	—	—	102-2041-ND ***NEW!***	16.98	15.44	13.12	VOF-10-15
	24	0.42	—	—	—	102-2042-ND ***NEW!***	16.98	15.44	13.12	VOF-10-24
	48	0.21	—	—	—	102-2043-ND ***NEW!***	16.98	15.44	13.12	VOF-10-48
	3.3	3.0	—	—	—	102-2044-ND ***NEW!***	19.21	17.46	14.84	VOF-15-3.3
	5	3.0	—	—	—	102-2045-ND ***NEW!***	19.21	17.46	14.84	VOF-15-5
	12	1.25	—	—	—	102-2046-ND ***NEW!***	19.21	17.46	14.84	VOF-15-12
	15	1.0	—	—	—	102-2047-ND ***NEW!***	19.21	17.46	14.84	VOF-15-15
	24	0.63	—	—	—	102-2048-ND ***NEW!***	19.21	17.46	14.84	VOF-15-24
	48	0.31	—	—	—	102-2049-ND ***NEW!***	19.21	17.46	14.84	VOF-15-48
2	5	4.4	WM2101	WM2102	WM2300	102-1325-ND	20.76	19.72	18.17	VOF-25-5
	12	2.0	WM2101	WM2102	WM2300	102-1326-ND	20.76	19.72	18.17	VOF-25-12
	15	1.6	WM2101	WM2102	WM2300	102-1327-ND	20.76	19.72	18.17	VOF-25-15
	24	1.0	WM2101	WM2102	WM2300	102-1328-ND	20.76	19.72	18.17	VOF-25-24
3	3.3	6.0	WM2101	WM2102	WM2300	102-1329-ND	24.84	23.60	21.74	VOF-45-3.3
	5	6.0	WM2101	WM2102	WM2300	102-1330-ND	24.84	23.60	21.74	VOF-45-5
	12	3.7	WM2101	WM2102	WM2300	102-1331-ND	24.84	23.60	21.74	VOF-45-12
	15	3.0	WM2101	WM2102	WM2300	102-1332-ND	24.84	23.60	21.74	VOF-45-15
	24	1.9	WM2101	WM2102	WM2300	102-1333-ND	24.84	23.60	21.74	VOF-45-24
	48	0.93	WM2101	WM2102	WM2300	102-1334-ND	24.84	23.60	21.74	VOF-45-48
	5	8.0	WM2101	WM2102	WM2300	102-1335-ND	27.20	25.84	23.80	VOF-65-5
	12	5.4	WM2101	WM2102	WM2300	102-1336-ND	27.20	25.84	23.80	VOF-65-12
	15	4.3	WM2101	WM2102	WM2300	102-1688-ND	27.20	25.84	23.80	VOF-65-15
	24	2.7	WM2101	WM2102	WM2300	102-1337-ND	27.20	25.84	23.80	VOF-65-24
	48	1.35	WM2101	WM2102	WM2300	102-1338-ND	27.20	25.84	23.80	VOF-65-48
	3.3	10	WM2101	WM2102	WM2300	102-2026-ND ***NEW!***	30.34	28.83	26.55	VOF-80-3.3
	5	10	WM2101	WM2102	WM2300	102-2027-ND ***NEW!***	30.34	28.83	26.55	VOF-80-5
	12	6.66	WM2101	WM2102	WM2300	102-2028-ND ***NEW!***	30.34	28.83	26.55	VOF-80-12
	15	5.33	WM2101	WM2102	WM2300	102-2029-ND ***NEW!***	30.34	28.83	26.55	VOF-80-15
	24	3.33	WM2101	WM2102	WM2300	102-2030-ND ***NEW!***	30.34	28.83	26.55	VOF-80-24
	48	1.66	WM2101	WM2102	WM2300	102-2031-ND ***NEW!***	30.34	28.83	26.55	VOF-80-48

(Continued)

160/365 Watt Open Frame Medical Switching Power Supplies

Features:
- Universal input 90 ~ 264VAC
- Full medical and ITE approvals
- Typical efficiency: 90%
- Active PFC
- Auxiliary fan output: 12V

VMS-160 Series:
- Industry standard 2”x4” foot-print • Power density: 18 W/in^3

VMS-365 Series:
- Industry standard 3”x5” foot-print • Power density: 19 W/in^3

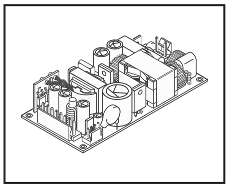

Output Voltage (VDC)	Maximum Current (A)†		Ripple and Noise§ Maximum (mV)	Digi-Key Part No.	Price Each			CUI Part No.
	Con-vection	Forced Air			1	10	25	
5	16	20	50	102-1691-ND‡	124.10	116.80	109.50	VMS-160-5
12	8.3	13.3	120	102-1692-ND	124.10	116.80	109.50	VMS-160-12
24	4.16	6.66	240	102-1693-ND	124.10	116.80	109.50	VMS-160-24
48	2.08	3.33	480	102-1694-ND	124.10	116.80	109.50	VMS-160-48
12	16.6	30.4	120	102-1798-ND▲	230.57	217.01	203.45	VMS-365-12
24	8.3	15.2	240	102-1799-ND▲	230.57	217.01	203.45	VMS-365-24
48	4.16	7.6	480	102-1800-ND▲	230.57	217.01	203.45	VMS-365-48

† Total continuous output power will not exceed 160W forced air (400LFM), 100W without fan
‡ Total continuous output power will not exceed 100W forced air (400LFM), 80W without fan for 5V model
▲ Total continuous output power will not exceed 365W forced air (400LFM), 200W without fan
§ Measured at 20MHz, twisted pair with 0.47μF and 22μF parallel capacitors

120/200 Watt Open Frame Switching Power Supplies

VSBU/VSUU Series: **Features:** • Universal input voltage: 90 ~ 264VAC, 47 ~ 63Hz or 130 ~ 370VDC • Internal EMI filter • Input surge current, over voltage and over load protection • Power factor correction • Class I insulation • Two year warranty • Operating temperature: 0°C ~ 70°C

VPU Series: **Features:** • Universal input voltage: 85 ~ 264VAC or 120 ~ 340VDC • Power factor correction • Operating temperature: -10°C ~ 65°C

Note: For safety and EMI certifications please see series data sheets

Fig. 1

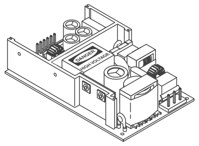

Fig. 2

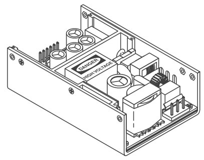

Output Power Maximum (W)	Output Voltage (VDC)	Output Current Typical (A)	Mating Connectors			Digi-Key Part No.	Price Each				CUI Part No.
			Housing Input	Housing Output	Contacts		1	10	25	50	
Fig. 1 — Single Output (Size: 3” x 5” x 1.28”)											
110	5.0	22	WM2103	WM17404	WM2300	102-1698-ND◆	88.71	83.49	78.27	73.06	VSBU-120-5
120	12	10	WM2103	WM17404	WM2300	102-1695-ND◆	88.71	83.49	78.27	73.06	VSBU-120-12
120	15	8.0	WM2103	WM17404	WM2300	102-1683-ND◆	88.71	83.49	78.27	73.06	VSBU-120-15
120	24	5.0	WM2103	WM17404	WM2300	102-1696-ND◆	88.71	83.49	78.27	73.06	VSBU-120-24
120	36	3.3	WM2103	WM17404	WM2300	102-1684-ND◆	88.71	83.49	78.27	73.06	VSBU-120-36
120	48	2.5	WM2103	WM17404	WM2300	102-1697-ND	87.01	81.89	76.77	71.66	VSBU-120-48
Fig. 1 — Dual Output (Size: 3” x 5” x 1.28”) – RoHS Compliant											
120	5.0/12	15/6.0	WM2103	WM17404	WM2300	102-1699-ND	90.61	85.28	79.95	74.62	VSBU-120-D512
120	5.0/24	15/3.5	WM2103	WM17404	WM2300	102-1270-ND	90.61	85.28	79.95	74.62	VSBU-120-D524A
Fig. 1 — Triple Output (Size: 3” x 5” x 1.28”)											
120	3.3/5.0/12	15/6.0/1.0	WM2103	WM17404	WM2300	102-1271-ND	92.06	86.64	81.23	75.81	VSBU-120-T3512B
120	5.0/12/-12	15/6.0/0.8	WM2103	WM17404	WM2300	102-1272-ND	94.16	88.63	83.09	77.55	VSBU-120-T512A
Fig. 2 — Single Output (Size: 3” x 5” x 1.58”) – RoHS Compliant											
110	5.0	22	WM2103	WM17404	WM2300	102-1276-ND	97.58	91.84	86.10	80.36	VSUU-120-5
120	12	10	WM2103	WM17404	WM2300	102-1273-ND	97.58	91.84	86.10	80.36	VSUU-120-12
120	15	8.0	WM2103	WM17404	WM2300	102-1685-ND	97.58	91.84	86.10	80.36	VSUU-120-15
120	24	5.0	WM2103	WM17404	WM2300	102-1274-ND	97.58	91.84	86.10	80.36	VSUU-120-24
120	36	3.3	WM2103	WM17404	WM2300	102-1686-ND	97.58	91.84	86.10	80.36	VSUU-120-36
120	48	2.5	WM2103	WM17404	WM2300	102-1275-ND	97.58	91.84	86.10	80.36	VSUU-120-48
Fig. 2 — Dual Output (Size: 3” x 5” x 1.28”)											
120	5.0/12	15/6.0	WM2103	WM17404	WM2300	102-1277-ND◆	98.94	93.13	87.30	81.48	VSUU-120-D512
120	5.0/24	15/3.5	WM2103	WM17404	WM2300	102-1278-ND	98.94	93.12	87.30	81.48	VSUU-120-D524A
Fig. 2 — Triple Output (Size: 3” x 5” x 1.28”) – RoHS Compliant											
120	3.3/5.0/12	15/6.0/1.0	WM2103	WM17404	WM2300	102-1279-ND	102.34	96.32	90.30	84.28	VSUU-120-T3512B
120	5.0/12/-12	15/6.0/0.8	WM2103	WM17404	WM2300	102-1280-ND	102.34	96.32	90.30	84.28	VSUU-120-T512A
Top Cover for VSUU-120 Series						102-1687-ND	2.04	1.92	1.80	1.68	VSUU-TCK
Fig. 2 — Single Output (Size: 6.8” x 3.8” x 1.5”) – RoHS Compliant											
200	12	16.7	WM2114	WM2121	WM2300	102-1483-ND	107.68	101.35	95.01	88.68	VPU-S200-12
200	15	13.3	WM2114	WM2121	WM2300	102-1484-ND	107.68	101.35	95.01	88.68	VPU-S200-15
200	24	8.3	WM2114	WM2121	WM2300	102-1485-ND	107.68	101.35	95.01	88.68	VPU-S200-24
200	36	5.5	WM2114	WM2121	WM2300	102-1486-ND	107.68	101.35	95.01	88.68	VPU-S200-36
200	48	4.2	WM2114	WM2121	WM2300	102-1487-ND	107.68	101.35	95.01	88.68	VPU-S200-48

◆ ***RoHS Compliant***

25/50/75/100 Watt Switching Power Supplies

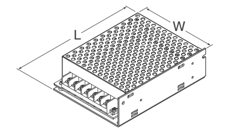

Features:

• Green design, no load power consumption <0.5W • Universal AC input / full range • Short circuit, overload, over voltage, brown out (low AC input voltage) protected • Cooling by free air convection • LED indicator for power on • 105°C long life electrolytic capacitors • High operating temperature up to 70°C • Able to withstand 5G vibration • High efficiency, long life, high reliability • Three year warranty

Voltage (V)	Output Current @120/240 Volt Input (A)	Size (Inch) L x W	Digi-Key Part No.	Price Each			CUI Part No.
				1	10	25	
3.3	0 ~ 6	3.091 x 2.008	102-1927-ND	20.52	19.50	19.06	VGS-25-3.3
5	0 ~ 5	3.091 x 2.008	102-1928-ND	20.52	19.50	19.06	VGS-25-5
12	0 ~ 2.1	3.091 x 2.008	102-1929-ND	20.52	19.50	19.06	VGS-25-12
15	0 ~ 1.7	3.091 x 2.008	102-1930-ND	20.52	19.50	19.06	VGS-25-15
24	0 ~ 1.1	3.091 x 2.008	102-1931-ND	20.52	19.50	19.06	VGS-25-24
48	0 ~ 0.57	3.091 x 2.008	102-1932-ND	20.52	19.50	19.06	VGS-25-48
3.3	0 ~ 10	3.898 x 3.209	102-1933-ND	27.01	25.66	25.08	VGS-50-3.3
5	0 ~ 10	3.898 x 3.209	102-1934-ND	27.01	25.66	25.08	VGS-50-5
12	0 ~ 4.2	3.898 x 3.209	102-1935-ND	27.01	25.66	25.08	VGS-50-12
15	0 ~ 3.4	3.898 x 3.209	102-1936-ND	27.01	25.66	25.08	VGS-50-15
24	0 ~ 2.2	3.898 x 3.209	102-1937-ND	27.01	25.66	25.08	VGS-50-24
48	0 ~ 1.1	3.898 x 3.209	102-1938-ND	27.01	25.66	25.08	VGS-50-48
3.3	0 ~ 15	5.098 x 3.839	102-1939-ND	33.91	32.22	31.49	VGS-75-3.3
5	0 ~ 15	5.098 x 3.839	102-1940-ND	33.91	32.22	31.49	VGS-75-5
12	0 ~ 6	5.098 x 3.839	102-1941-ND	33.91	32.22	31.49	VGS-75-12
15	0 ~ 5	5.098 x 3.839	102-1942-ND	33.91	32.22	31.49	VGS-75-15
24	0 ~ 3.2	5.098 x 3.839	102-1943-ND	33.91	32.22	31.49	VGS-75-24
48	0 ~ 1.6	5.098 x 3.839	102-1944-ND	33.91	32.22	31.49	VGS-75-48
3.3	0 ~ 20	5.098 x 3.839	102-1945-ND	39.31	37.35	36.51	VGS-100-3.3
5	0 ~ 16	5.098 x 3.839	102-1946-ND	39.31	37.35	36.51	VGS-100-5
12	0 ~ 8.5	5.098 x 3.839	102-1947-ND	39.31	37.35	36.51	VGS-100-12
15	0 ~ 7	5.098 x 3.839	102-1948-ND	39.31	37.35	36.51	VGS-100-15
24	0 ~ 4.5	5.098 x 3.839	102-1949-ND	39.31	37.35	36.51	VGS-100-24
48	0 ~ 2.3	5.098 x 3.839	102-1950-ND	39.31	37.35	36.51	VGS-100-48

(Continued)

NEW! VDRS Series DIN Rail Power Supplies

Features:
• Universal AC input • Installs on DIN rail • Brown out protection • Short circuit, over load, over voltage protection • Long life 105°C electrolytic capacitors • Operating temperature up to 70°C • Can withstand 5G of vibration • True DC OK signal output • Meets EISA / efficiency level IV regulations

Fig. 1

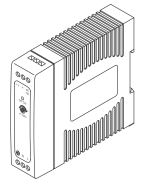

Fig. 2

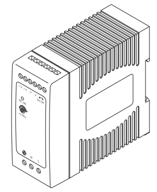

Fig.	Output Voltage (V)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
1	12VDC	0.84	102-2147-ND	22.97	20.37	19.91	VDRS-10-12
	15VDC	0.67	102-2148-ND	22.97	20.37	19.91	VDRS-10-15
	24VDC	0.42	102-2149-ND	22.97	20.37	19.91	VDRS-10-24
	12VDC	1.7	102-2150-ND	28.98	27.17	23.55	VDRS-20-12
	15VDC	1.4	102-2151-ND	28.98	27.17	23.55	VDRS-20-15
	24VDC	1	102-2152-ND	28.98	27.17	23.55	VDRS-20-24
2	12VDC	3.4	102-2153-ND	38.02	31.61	30.89	VDRS-40-12
	15VDC	2.7	102-2154-ND	38.02	31.61	30.89	VDRS-40-15
	24VDC	1.7	102-2155-ND	38.02	31.61	30.89	VDRS-40-24
	48VDC	0.85	102-2156-ND	38.02	31.61	30.89	VDRS-40-48
	12VDC	5	102-2157-ND	40.94	38.39	33.27	VDRS-60-12
	15VDC	4	102-2158-ND	40.94	38.39	33.27	VDRS-60-15
	24VDC	2.5	102-2159-ND	40.94	38.39	33.27	VDRS-60-24
	48VDC	1.25	102-2160-ND	40.94	38.39	33.27	VDRS-60-48
	12VDC	7.5	102-2161-ND	60.41	52.08	—	VDRS-100-12
	15VDC	6.4	102-2162-ND	60.41	52.08	—	VDRS-100-15
	24VDC	4	102-2163-ND	60.41	52.08	—	VDRS-100-24
	48VDC	2	102-2164-ND	60.41	52.08	—	VDRS-100-48

NEW! VF Series Switching 250/320 Watt Power Supplies

Features:
- Power factor correction
- Power good signal
- Short circuit protection
- Over load protection
- Over voltage protection
- Over temperature protection
- Approved to UL, CUL, TUV, CE with CB scheme

Fig. 1

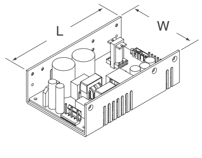

Fig. 2

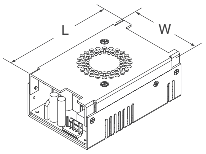

Fig. 3

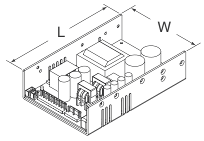

Fig. 4

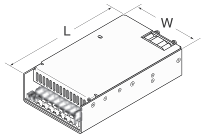

Fig.	Voltage (V)	Convection Cooled Current (A)	Airflow Current (A)	Dimensions — Inch (mm) L x W	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
1	12	11.25	20.83‡‡	5.0 x 3.2 (127 x 81.28)	102-2165-ND	108.47	102.45	96.42	VF-S250-12A
	24	5.63	10.42‡‡	5.0 x 3.2 (127 x 81.28)	102-2166-ND	108.47	102.45	96.42	VF-S250-24A
	48	2.81	5.21‡‡	5.0 x 3.2 (127 x 81.28)	102-2167-ND	108.47	102.45	96.42	VF-S250-48A
	12/24	7/4	12/6‡	5.0 x 3.2 (127 x 81.28)	102-2168-ND	113.56	107.26	100.95	VF-D250-D1224A
2	12	11.25	20.83‡‡	5.0 x 3.2 (127 x 81.28)	102-2143-ND	126.41	119.40	112.37	VF-S250-12A-CF
	24	5.63	10.42‡‡	5.0 x 3.2 (127 x 81.28)	102-2144-ND	126.41	119.40	112.37	VF-S250-24A-CF
	48	2.81	5.21‡‡	5.0 x 3.2 (127 x 81.28)	102-2145-ND	126.41	119.40	112.37	VF-S250-48A-CF
	12/24	7/4	12/6‡	5.0 x 3.2 (127 x 81.28)	102-2146-ND	131.51	124.21	116.90	VF-D250-D1224A-CF
3	5	30	50†	6.0 x 4.0 (152.4 x 101.6)	102-1993-ND	132.73	125.36	117.99	VF-S320-05A
	12	15	26.67†	6.0 x 4.0 (152.4 x 101.6)	102-1994-ND	132.73	125.36	117.99	VF-S320-12A
	15	13.23	23.53†	6.0 x 4.0 (152.4 x 101.6)	102-1995-ND	132.73	125.36	117.99	VF-S320-15A
	24	8.57	15.24†	6.0 x 4.0 (152.4 x 101.6)	102-1996-ND	132.73	125.36	117.99	VF-S320-24A
	36	5.14	9.14†	6.0 x 4.0 (152.4 x 101.6)	102-1997-ND	132.73	125.36	117.99	VF-S320-36A
	48	4.18	7.44†	6.0 x 4.0 (152.4 x 101.6)	102-1998-ND	132.73	125.36	117.99	VF-S320-48A
	5/12	15/10.42	30/16.67‡	6.0 x 4.0 (152.4 x 101.6)	102-1999-ND	140.08	132.30	124.52	VF-D320-D512A
	5/24	15/5.2	30/8.33‡	6.0 x 4.0 (152.4 x 101.6)	102-2000-ND	140.08	132.30	124.52	VF-D320-D524A
	12/24	12.5/6.25	16.67/8.33‡	6.0 x 4.0 (152.4 x 101.6)	102-2001-ND	140.08	132.30	124.52	VF-D320-D1224A
4	5	—	50†	6.0 x 4.0 (152.4 x 101.6)	102-2002-ND	153.67	145.13	136.60	VF-S320-05A-CFS
	12	—	26.37†	6.0 x 4.0 (152.4 x 101.6)	102-2003-ND	153.67	145.13	136.60	VF-S320-12A-CFS
	15	—	23.53†	6.0 x 4.0 (152.4 x 101.6)	102-2004-ND	153.67	145.13	136.60	VF-S320-15A-CFS
	24	—	15.24†	6.0 x 4.0 (152.4 x 101.6)	102-2005-ND	153.67	145.13	136.60	VF-S320-24A-CFS
	36	—	9.14†	6.0 x 4.0 (152.4 x 101.6)	102-2006-ND	153.67	145.13	136.60	VF-S320-36A-CFS
	48	—	7.44†	6.0 x 4.0 (152.4 x 101.6)	102-2007-ND	153.67	145.13	136.60	VF-S320-48A-CFS
	5/12	15/10.42★	30/16.67•	6.0 x 4.0 (152.4 x 101.6)	102-2008-ND	161.03	152.09	143.14	VF-D320-D512A-CFS
	5/24	15/5.2★	30/8.33•	6.0 x 4.0 (152.4 x 101.6)	102-2009-ND	161.03	152.09	143.14	VF-D320-D524A-CFS
	12/24	12.5/6.25§	16.67/8.33∆	6.0 x 4.0 (152.4 x 101.6)	102-2010-ND	161.03	152.09	143.14	VF-D320-D1224A-CFS

† 22CFM ‡ 18CFM ‡‡ 16 CFM ★ 125W max. Combined power § 150W max. Combined power • 250W max. Combined power ∆ 300W max. Combined power

800/1500/2400 High Wattage Switching Power Supplies

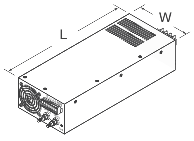

V-Infinity's rugged and durable power supplies provide remarkable power and value. The 800W, 1500W and 2400W series are rich with features like programmable output voltage, remote sense, remote inhibit and current sharing. With built-in fans and over voltage, over temperature, overload and short-circuit protection, they can stand up to your most demanding industrial control, automation and high power telecommunications applications.

Note: For safety and EMI certifications please see series data sheets

Voltage (V)	Output Current @ 120/240 Volt Input (A)	Dimensions — Inch (mm) L x W	Digi-Key Part No.	Price Each 1	5	10	CUI Part No.
			VSCP–800 Series				
12	33/66	11.42 x 4.72 (290 x 120)	102-1490-ND	460.35	424.08	397.59	VSCP-800-12
15	26/53	11.42 x 4.72 (290 x 120)	102-1491-ND	460.35	424.08	397.59	VSCP-800-15
24	16/33	11.42 x 4.72 (290 x 120)	102-1492-ND	460.35	424.08	397.59	VSCP-800-24
48	8/16	11.42 x 4.72 (290 x 120)	102-1493-ND	460.35	424.08	397.59	VSCP-800-48
			VSCP–1K5 Series				
12	66/125	11.42 x 4.72 (290 x 120)	102-1494-ND	826.15	810.16	783.51	VSCP-1K5-12
15	53/100	11.42 x 4.72 (290 x 120)	102-1495-ND	826.15	810.16	783.51	VSCP-1K5-15
24	33/62	11.42 x 4.72 (290 x 120)	102-1496-ND	826.15	810.16	783.51	VSCP-1K5-24
48	16/31	11.42 x 4.72 (290 x 120)	102-1497-ND	826.15	810.16	783.51	VSCP-1K5-48
			VSCP–2K4 Series				
12	100/200	13.07 x 8.35 (332 x 212)	102-1498-ND	1867.22	1678.40	1521.05	VSCP-2K4-12
24	50/100	13.07 x 8.35 (332 x 212)	102-1500-ND	1867.22	1678.40	1521.05	VSCP-2K4-24
48	25/50	13.07 x 8.35 (332 x 212)	102-1501-ND	1867.22	1678.40	1521.05	VSCP-2K4-48
60	20/40	13.07 x 8.35 (332 x 212)	102-1502-ND	1867.22	1678.40	1521.05	VSCP-2K4-60

Constant Current DC-DC LED Driver — VLD24 Series

The VLD24-XXX series is a step-down constant current source designed for driving high power LEDs.

Features:

• High efficiency up to 95% • High ambient operating temperature • Constant current output • Power LED driver • Wide range input voltage range • PWM digital dimming and manual dimming control • Short-circuit protection

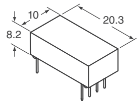

Input Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
5.5 ~ 36	2 ~ 32	300	102-1898-ND	10.52	10.26	10.00	VLD24-300
5.5 ~ 36	2 ~ 32	350	102-1899-ND	10.52	10.26	10.00	VLD24-350
5.5 ~ 36	2 ~ 32	500	102-1900-ND	10.52	10.26	10.00	VLD24-500
5.5 ~ 36	2 ~ 32	600	102-1901-ND	10.52	10.26	10.00	VLD24-600
5.5 ~ 36	2 ~ 32	700	102-1902-ND	10.52	10.26	10.00	VLD24-700

DC-DC Converters

Note: For safety and EMI certifications please see data sheets

VPOL (Point of Load) Series

These "Point of Load" modules serve the needs specifically of the fixed and mobile telecommunications and computing market, employing economical distributed Power Architectures. Provide precisely regulated output voltage range from 0.75V ~ 5VDC over a wide range of input voltage and can operate over an ambient temperature range of -40°C ~ 85°C. Ultra-high efficiency operation is achieved through the use of synchronous rectification and drive control techniques. The modules are fully protected against short circuit and over-temperature conditions. **Features:** • Cost efficient open frame design • No minimum load requirement (Stable at all loads) • Remote On/Off • Continuous short-circuit protection and over current protection • Over-temperature protection (OTP)

Dimensions in mm

Fig. 1

Pin	Function
1	+Output
2	Trim
3	Common
4	+V Input
5	On/Off

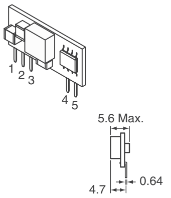

Fig. 2

Pin	Function
1	+Output
2	Trim
3	Common
4	+V Input
5	On/Off

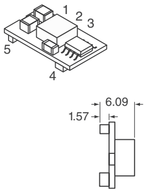

Fig. 3

Pin	Function
1	+Output
2	+Ouput
3	+Sense
4	+Output
5	Common
6	Common
7	+V Input
8	+V Input
9	No Pin
10	Trim
11	On/Off Control

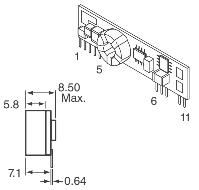

Fig. 4

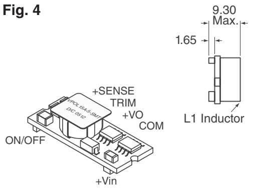

Fig.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	Tape and Reel‡ Qty.	Pricing	CUI Part No.
1	3.0 ~ 5.5	0.75 ~ 3.63	5	102-1287-ND◆	14.60	13.51	13.14	12.78	—	—	VPOL5A-5-SIP
	8.3 ~ 14	0.75 ~ 5.0	5	102-1289-ND◆	14.60	13.51	13.14	12.78	—	—	VPOL5A-12-SIP
2	3.0 ~ 5.5	0.75 ~ 3.63	5	102-1288-1-ND†	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-5-SMT
	8.3 ~ 14	0.75 ~ 5.0	5	102-1290-1-ND†◆	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-12-SMT
3	3.0 ~ 5.5	0.9 ~ 3.63	15	102-1291-ND	24.88	23.02	22.40	21.77	—	—	VPOL15A-5-SIP
	9.0 ~ 14	0.75 ~ 5.0	16	102-1293-ND◆	24.88	23.02	22.40	21.77	—	—	VPOL16A-12-SIP
4	3.0 ~ 5.5	0.9 ~ 3.63	15	102-1292-1-ND†	24.88	23.02	22.40	21.77	250	4665.00	VPOL15A-5-SMT
	9.0 ~ 14	0.75 ~ 5.0	16	102-1294-1-ND†	24.88	23.02	22.40	21.77	250	4665.00	VPOL16A-12-SMT

† Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND. ◆ ***RoHS Compliant***

VASD1 and VASD2 Series

Features: • 1KVDC Isolation • Dual voltage output • High efficiency • Temperature range: -40°C ~ 85°C

Fig. 1

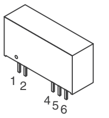

A

Pin	Function
1	+Vin
2	-Vin
4	-Vout
5	COM
6	+Vout

B *NEW!*

Pin	Function
1	Vin
2	GND
4	-Vout
5	0V
6	+Vout

Fig. 2

Pin	Function
1	-Vin
7	NC
8	COM
9	+Vout
11	-Vout
14	+Vin

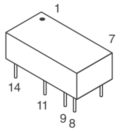

Input Voltage Nominal (VDC)	Range (VDC)	Output Voltage (VDC)	Output Current Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
SIP Series									
Fig. 1A — VASD1 Series									
5	4.5 ~ 5.5	±5	±100	±10	102-1339-ND	4.96	4.84	4.72	VASD1-S5-D5-SIP
	4.5 ~ 5.5	±12	±42	±5	102-1340-ND	4.96	4.84	4.72	VASD1-S5-D12-SIP
	4.5 ~ 5.5	±15	±33	±4	102-1341-ND	4.96	4.84	4.72	VASD1-S5-D15-SIP
12	10.8 ~ 13.2	±5	±100	±10	102-1342-ND	4.96	4.84	4.72	VASD1-S12-D5-SIP
	10.8 ~ 13.2	±12	±42	±5	102-1343-ND	4.96	4.84	4.72	VASD1-S12-D12-SIP
	10.8 ~ 13.2	±15	±33	±4	102-1344-ND	4.96	4.84	4.72	VASD1-S12-D15-SIP
24	21.6 ~ 26.4	±5	±100	±10	102-1345-ND	4.96	4.84	4.72	VASD1-S24-D5-SIP
	21.6 ~ 26.4	±12	±42	±5	102-1346-ND	4.96	4.84	4.72	VASD1-S24-D12-SIP
	21.6 ~ 26.4	±15	±33	±4	102-1347-ND	4.96	4.84	4.72	VASD1-S24-D15-SIP
NEW! Fig. 1B — VASD2 Series NEW!									
5	4.5 ~ 5.5	±5	±200	±20	102-2092-ND	7.34	7.16	6.98	VASD2-S5-D5-SIP
	4.5 ~ 5.5	±12	±83	±9	102-2093-ND	7.34	7.16	6.98	VASD2-S5-D12-SIP
	4.5 ~ 5.5	±15	±67	±7	102-2058-ND	7.34	7.16	6.98	VASD2-S5-D15-SIP
12	10.8 ~ 13.2	±5	±200	±20	102-2094-ND	7.34	7.16	6.98	VASD2-S12-D5-SIP
	10.8 ~ 13.2	±12	±83	±9	102-2095-ND	7.34	7.16	6.97	VASD2-S12-D12-SIP
	10.8 ~ 13.2	±15	±67	±7	102-2096-ND	7.34	7.16	6.97	VASD2-S12-D15-SIP
24	21.6 ~ 26.4	±5	±200	±20	102-2059-ND	7.34	7.16	6.97	VASD2-S24-D5-SIP
	21.6 ~ 26.4	±12	±83	±59	102-2060-ND	7.34	7.16	6.97	VASD2-S24-D12-SIP
	21.6 ~ 26.4	±15	±67	±7	102-2061-ND	7.34	7.16	6.97	VASD2-S24-D15-SIP
DIP Series									
Fig. 2 — VASD1 Series									
5	4.5 ~ 5.5	±5	±100	±10	102-1348-ND	4.96	4.84	4.72	VASD1-S5-D5-DIP
	4.5 ~ 5.5	±12	±42	±5	102-1349-ND	4.96	4.84	4.72	VASD1-S5-D12-DIP
	4.5 ~ 5.5	±15	±33	±4	102-1350-ND	4.96	4.84	4.72	VASD1-S5-D15-DIP
12	10.8 ~ 13.2	±5	±100	±10	102-1351-ND	4.96	4.84	4.72	VASD1-S12-D5-DIP
	10.8 ~ 13.2	±12	±42	±5	102-1352-ND	4.96	4.84	4.72	VASD1-S12-D12-DIP
	10.8 ~ 13.2	±15	±33	±4	102-1353-ND	4.96	4.84	4.72	VASD1-S12-D15-DIP
24	21.6 ~ 26.4	±5	±100	±10	102-1354-ND	4.96	4.84	4.72	VASD1-S24-D5-DIP
	21.6 ~ 26.4	±12	±42	±5	102-1355-ND	4.96	4.84	4.72	VASD1-S24-D12-DIP
	21.6 ~ 26.4	±15	±33	±4	102-1356-ND	4.96	4.84	4.72	VASD1-S24-D15-DIP

VBSD1 and VBSD2 Series

Features: • 1KVDC Isolation • Single voltage output • High efficiency • Temperature range: -40°C ~ 85°C

Fig. 1

Pin	Function
1	-Vin
2	+Vin
3	-Vout
4	+Vout

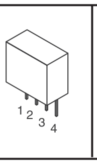

Fig. 2 *NEW!*

Pin	Function
1	+Vin
2	-Vin
4	-Vout
6	+Vout

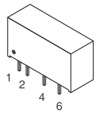

Fig. 3

Pin	Function
1	-Vin
4	+Vin
5	+Vout
7	-Vout

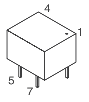

Input Voltage Nominal (VDC)	Range (VDC)	Output Voltage (VDC)	Output Current Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
SIP Series									
Fig. 1 — VBSD1 Series									
3.3	3.0 ~ 3.6	3.3	300	30	102-1357-ND	4.66	4.55	4.43	VBSD1-S3.3-S3.3-SIP
	3.0 ~ 3.6	5	200	20	102-1358-ND	4.66	4.55	4.43	VBSD1-S3.3-S5-SIP
5	4.5 ~ 5.5	3.3	300	30	102-1359-ND	4.66	4.55	4.43	VBSD1-S5-S3.3-SIP
	4.5 ~ 5.5	5	200	20	102-1360-ND	4.66	4.55	4.43	VBSD1-S5-S5-SIP
	4.5 ~ 5.5	12	83	9	102-1361-ND	4.66	4.55	4.43	VBSD1-S5-S12-SIP
	4.5 ~ 5.5	15	67	7	102-1362-ND	4.66	4.55	4.43	VBSD1-S5-S15-SIP
12	10.8 ~ 13.2	3.3	300	30	102-1363-ND	4.66	4.55	4.43	VBSD1-S12-S3.3-SIP
	10.8 ~ 13.2	5	200	20	102-1364-ND	4.66	4.55	4.43	VBSD1-S12-S5-SIP
	10.8 ~ 13.2	12	83	9	102-1365-ND	4.66	4.55	4.43	VBSD1-S12-S12-SIP
	10.8 ~ 13.2	15	67	7	102-1366-ND	4.66	4.55	4.43	VBSD1-S12-S15-SIP
24	21.6 ~ 26.4	3.3	300	30	102-1367-ND	4.66	4.55	4.43	VBSD1-S24-S3.3-SIP
	21.6 ~ 26.4	5	200	20	102-1368-ND	4.66	4.55	4.43	VBSD1-S24-S5-SIP
	21.6 ~ 26.4	12	83	9	102-1369-ND	4.66	4.55	4.43	VBSD1-S24-S12-SIP
	21.6 ~ 26.4	15	67	7	102-1370-ND	4.66	4.55	4.43	VBSD1-S24-S15-SIP
NEW! Fig. 2 — VBSD2 Series NEW!									
5	4.5 ~ 5.5	5	400	40	102-2097-ND	6.92	6.75	6.57	VBSD2-S5-S5-SIP
	4.5 ~ 5.5	12	167	17	102-2062-ND	6.92	6.75	6.57	VBSD2-S5-S12-SIP
	4.5 ~ 5.5	15	133	14	102-2098-ND	6.92	6.75	6.57	VBSD2-S5-S15-SIP
12	10.8 ~ 13.2	5	400	40	102-2099-ND	6.92	6.75	6.57	VBSD2-S12-S5-SIP
	10.8 ~ 13.2	12	167	17	102-2100-ND	6.92	6.75	6.57	VBSD2-S12-S12-SIP
	10.8 ~ 13.2	15	133	14	102-2101-ND	6.92	6.75	6.57	VBSD2-S12-S15-SIP
24	21.6 ~ 26.4	5	400	40	102-2102-ND	6.92	6.75	6.57	VBSD2-S24-S5-SIP
	21.6 ~ 26.4	12	167	17	102-2103-ND	6.92	6.75	6.57	VBSD2-S24-S12-SIP
	21.6 ~ 26.4	15	133	14	102-2063-ND	6.92	6.75	6.57	VBSD2-S24-S15-SIP
DIP Series									
Fig. 3 — DIP Series									
3.3	3.0 ~ 3.6	3.3	300	30	102-1371-ND	4.94	4.82	4.70	VBSD1-S3.3-S3.3-DIP
	3.0 ~ 3.6	5	200	20	102-1372-ND	4.94	4.82	4.70	VBSD1-S3.3-S5-DIP
5	4.5 ~ 5.5	3.3	300	30	102-1373-ND	4.94	4.82	4.70	VBSD1-S5-S3.3-DIP
	4.5 ~ 5.5	5	200	20	102-1374-ND	4.94	4.82	4.70	VBSD1-S5-S5-DIP

(Continued)

VBSD1 and VBSD2 Series *(Cont.)*

Input Voltage		Output	Output Current			Price Each			
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	CUI Part No.
5	4.5 ~ 5.5	12	83	9	102-1375-ND	4.94	4.82	4.70	VBSD1-S5-S12-DIP
	4.5 ~ 5.5	15	67	7	102-1376-ND	4.94	4.82	4.70	VBSD1-S5-S15-DIP
12	10.8 ~ 13.2	3.3	300	30	102-1377-ND	4.94	4.82	4.70	VBSD1-S12-S3.3-DIP
	10.8 ~ 13.2	5	200	20	102-1378-ND	4.94	4.82	4.70	VBSD1-S12-S5-DIP
	10.8 ~ 13.2	12	83	9	102-1379-ND	4.94	4.82	4.70	VBSD1-S12-S12-DIP
	10.8 ~ 13.2	15	67	7	102-1380-ND	4.94	4.82	4.70	VBSD1-S12-S15-DIP
24	21.6 ~ 26.4	3.3	300	30	102-1381-ND	4.94	4.82	4.70	VBSD1-S24-S3.3-DIP
	21.6 ~ 26.4	5	200	20	102-1382-ND	4.94	4.82	4.70	VBSD1-S24-S5-DIP
	21.6 ~ 26.4	12	83	9	102-1383-ND	4.94	4.82	4.70	VBSD1-S24-S12-DIP
	21.6 ~ 26.4	15	67	7	102-1384-ND	4.94	4.82	4.70	VBSD1-S24-S15-DIP

NEW! VEFT1 and VEFT1-SMT Series

• 3KVDC Isolation • Single/Dual voltage output • High efficiency • Temperature Range: -40°C ~ 85°C

Fig. 1

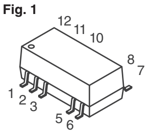

A

Pin	Function	Pin	Function
1	-Vin	7	NC
2	+Vin	8	+Vout
3	NC	10	NC
5	COM	11	NC
6	-Vout	12	NC

B

Pin	Function	Pin	Function
1	-Vin	7	NC
2	+Vin	8	+Vout
3	NC	10	NC
5	-Vout	11	NC
6	NC	12	NC

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡ Pricing	
Nom. (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	500	CUI Part No.
Fig. 1A — VEFT1 Series, Dual Output										
5	4.5 ~ 5.5	±5	±100	±10	102-2123-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S5-D5-SMT
	4.5 ~ 5.5	±12	±42	±5	102-2083-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S5-D12-SMT
	4.5 ~ 5.5	±15	±33	±4	102-2124-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S5-D15-SMT
12	10.8 ~ 13.2	±5	±100	±10	102-2084-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S12-D5-SMT
	10.8 ~ 13.2	±12	±42	±5	102-2125-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S12-D12-SMT
	10.8 ~ 13.2	±15	±33	±4	102-2126-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S12-D15-SMT
24	21.6 ~ 26.4	±12	±42	±5	102-2086-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S24-D12-SMT
	21.6 ~ 26.4	±15	±33	±4	102-2127-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S24-D15-SMT
	21.6 ~ 26.4	±5	±100	±10	102-2085-1-ND	7.18	7.00	6.82	2695.00	VEFT1-S24-D5-SMT
Fig. 1B — VEFT1-SMT Series, Single Output										
3.3	3.00 ~ 3.60	3.3	300	30	102-2128-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S3.3-S3.3-SMT
	3.00 ~ 3.60	5	200	20	102-2129-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S3.3-S5-SMT
5	4.5 ~ 5.5	3.3	300	30	102-2130-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S5-S3.3-SMT
	4.5 ~ 5.5	5	200	20	102-2131-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S5-S5-SMT
	4.5 ~ 5.5	12	83	9	102-2132-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S5-S12-SMT
	4.5 ~ 5.5	15	67	7	102-2087-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S5-S15-SMT
	4.5 ~ 5.5	24	42	5	102-2088-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S5-S24-SMT
12	10.8 ~ 13.2	3.3	300	30	102-2089-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S12-S3.3-SMT
	10.8 ~ 13.2	5	200	20	102-2133-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S12-S5-SMT
	10.8 ~ 13.2	12	83	9	102-2134-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S12-S12-SMT
	10.8 ~ 13.2	15	67	7	102-2135-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S12-S15-SMT
	10.8 ~ 13.2	24	42	5	102-2090-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S12-S24-SMT
24	21.6 ~ 26.4	3.3	300	30	102-2091-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S24-S3.3-SMT
	21.6 ~ 26.4	5	200	20	102-2136-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S24-S5-SMT
	21.6 ~ 26.4	12	83	9	102-2137-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S24-S12-SMT
	21.6 ~ 26.4	15	67	7	102-2138-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S24-S15-SMT
	21.6 ~ 26.4	24	42	5	102-2139-1-ND	6.66	6.49	6.33	2500.00	VEFT1-S24-S24-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND.

VESD1-SIP and VESD2-SIP Series

Features: • 3KVDC Isolation • Dual voltage output • High efficiency • Temperature range: -40°C ~ 85°C

Fig. 1

Pin	Function
1	+Vin
2	-Vin
4	-Vout
5	COM
6	+Vout

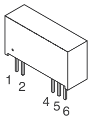

Fig. 2 ***NEW!***

Pin	Function
1	+Vin
2	-Vin
5	-Vout
6	COM
7	+Vout

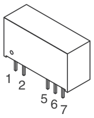

Input Voltage		Output	Output Current			Price Each			
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	CUI Part No.
Fig. 1 —VESD1-SIP Series									
5	4.5 ~ 5.5	±5	±100	±10	102-1408-ND	6.44	6.28	6.12	VESD1-S5-D5-SIP
	4.5 ~ 5.5	±12	±42	±5	102-1409-ND	6.44	6.28	6.12	VESD1-S5-D12-SIP
	4.5 ~ 5.5	±15	±33	±4	102-1410-ND	6.44	6.28	6.12	VESD1-S5-D15-SIP
12	10.8 ~ 13.2	±5	±100	±10	102-1411-ND	6.44	6.28	6.12	VESD1-S12-D5-SIP
	10.8 ~ 13.2	±12	±42	±5	102-1412-ND	6.44	6.28	6.12	VESD1-S12-D12-SIP
	10.8 ~ 13.2	±15	±33	±4	102-1413-ND	6.44	6.28	6.12	VESD1-S12-D15-SIP
24	21.6 ~ 26.4	±5	±100	±10	102-1414-ND	6.44	6.28	6.12	VESD1-S24-D5-SIP
	21.6 ~ 26.4	±12	±42	±5	102-1415-ND	6.44	6.28	6.12	VESD1-S24-D12-SIP
	21.6 ~ 26.4	±15	±33	±4	102-1416-ND	6.44	6.28	6.12	VESD1-S24-D15-SIP
NEW! Fig. 2 —VESD2-SIP Series NEW!									
5	4.5 ~ 5.5	±5	±200	±20	102-2104-ND	8.34	8.13	7.92	VESD2-S5-D5-SIP
	4.5 ~ 5.5	±12	±83	±9	102-2105-ND	8.34	8.13	7.92	VESD2-S5-D12-SIP
	4.5 ~ 5.5	±15	±67	±7	102-2106-ND	8.34	8.13	7.92	VESD2-S5-D15-SIP
12	10.8 ~ 13.2	±5	±200	±20	102-2107-ND	8.34	8.13	7.92	VESD2-S12-D5-SIP
	10.8 ~ 13.2	±12	±83	±9	102-2064-ND	8.34	8.13	7.92	VESD2-S12-D12-SIP
	10.8 ~ 13.2	±15	±67	±7	102-2065-ND	8.34	8.13	7.92	VESD2-S12-D15-SIP
24	21.6 ~ 26.4	±5	±200	±20	102-2066-ND	8.34	8.13	7.92	VESD2-S24-D5-SIP
	21.6 ~ 26.4	±12	±83	±9	102-2108-ND	8.34	8.13	7.92	VESD2-S24-D12-SIP
	21.6 ~ 26.4	±15	±67	±7	102-2067-ND	8.34	8.13	7.92	VESD2-S24-D15-SIP

VBT1-SMT and VBT2-SMT Series

Features: • 1KVDC Isolation • Single voltage output • High efficiency • Temperature range: -40°C ~ 85°C

Fig. 1

Pin	Function	Pin	Function
1	-Vin	5	+Vout
2	+Vin	6	NC
3	NC	7	NC
4	-Vout	8	NC

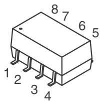

Fig. 2 ***NEW!***

Pin	Function
1	GND
2	Vin
5	NC
6	0V
7	+Vout
10	NC
Others	NC

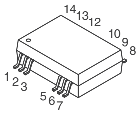

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡ Pricing	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	500	CUI Part No.
VBT1-SMT Series										
3.3	3.0 ~ 3.6	3.3	304	30	102-1394-1-ND	4.82	4.46	4.34	1807.50	VBT1-S3.3-S3.3-SMT
	3.0 ~ 3.6	5	200	20	102-1395-1-ND	4.82	4.46	4.34	1807.50	VBT1-S3.3-S5-SMT
5	4.5 ~ 5.5	3.3	300	30	102-1396-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S3.3-SMT
	4.5 ~ 5.5	5	200	20	102-1397-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S5-SMT
	4.5 ~ 5.5	12	84	9	102-1398-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S12-SMT
	4.5 ~ 5.5	15	67	7	102-1399-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S15-SMT
12	10.8 ~ 13.2	3.3	300	30	102-1400-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S3.3-SMT
	10.8 ~ 13.2	5	200	20	102-1401-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S5-SMT
	10.8 ~ 13.2	12	84	9	102-1402-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S12-SMT
	10.8 ~ 13.2	15	67	7	102-1403-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S15-SMT
24	21.6 ~ 26.4	3.3	300	30	102-1404-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S3.3-SMT
	21.6 ~ 26.4	5	200	20	102-1405-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S5-SMT
	21.6 ~ 26.4	12	83	9	102-1406-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S12-SMT
	21.6 ~ 26.4	15	67	7	102-1407-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S15-SMT

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡ Pricing	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	400	CUI Part No.
NEW! VBT2-SMT Series NEW!										
5	4.5 ~ 5.5	5	400	40	102-2122-1-ND	6.26	6.10	5.95	2064.00	VBT2-S5-S5-SMT
	4.5 ~ 5.5	12	167	17	102-2078-1-ND	6.26	6.10	5.95	2064.00	VBT2-S5-S12-SMT
	4.5 ~ 5.5	15	133	14	102-2079-1-ND	6.26	6.10	5.95	2064.00	VBT2-S5-S15-SMT
12	10.8 ~ 13.2	5	400	40	102-2080-1-ND	6.26	6.10	5.95	2064.00	VBT2-S12-S5-SMT
	10.8 ~ 13.2	12	167	17	102-2081-1-ND	6.26	6.10	5.95	2064.00	VBT2-S12-S12-SMT
	10.8 ~ 13.2	15	133	14	102-2082-1-ND	6.26	6.10	5.95	2064.00	VBT2-S12-S15-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND.

VFSD1-SIP and VFSD2-SIP Series

Features:

- 3KVDC Isolation
- Single voltage output
- High efficiency
- Temperature range: -40°C ~ 85°C

Pin	Function
1	+Vin
2	-Vin
5	-Vout
7	+Vout

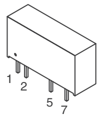

Input Voltage		Output	Output Current			Price Each			
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	CUI Part No.
VFSD1-SIP Series									
3.3	3.0 ~ 3.6	3.3	300	30	102-1417-ND	6.26	6.11	5.95	VFSD1-S3.3-S3.3-SIP
	3.0 ~ 3.6	5	200	20	102-1418-ND	6.26	6.11	5.95	VFSD1-S3.3-S5-SIP
5	4.5 ~ 5.5	3.3	300	30	102-1419-ND	6.26	6.11	5.95	VFSD1-S5-S3.3-SIP
	4.5 ~ 5.5	5	200	20	102-1420-ND	6.26	6.11	5.95	VFSD1-S5-S5-SIP
	4.5 ~ 5.5	12	83	9	102-1421-ND	6.26	6.11	5.95	VFSD1-S5-S12-SIP
	4.5 ~ 5.5	15	67	7	102-1422-ND	6.26	6.11	5.95	VFSD1-S5-S15-SIP
12	10.8 ~ 13.2	3.3	300	30	102-1423-ND	6.26	6.11	5.95	VFSD1-S12-S3.3-SIP
	10.8 ~ 13.2	5	200	20	102-1424-ND	6.26	6.11	5.95	VFSD1-S12-S5-SIP
	10.8 ~ 13.2	12	83	9	102-1425-ND	6.26	6.11	5.95	VSFD1-S12-S12-SIP
	10.8 ~ 13.2	15	67	7	102-1426-ND	6.26	6.11	5.95	VFSD1-S12-S15-SIP
24	21.6 ~ 26.4	3.3	300	30	102-1427-ND	6.26	6.11	5.95	VFSD1-S24-S3.3-SIP
	21.6 ~ 26.4	5	200	20	102-1428-ND	6.26	6.11	5.95	VFSD1-S24-S5-SIP
	21.6 ~ 26.4	12	83	9	102-1429-ND	6.26	6.11	5.95	VFSD1-S24-S12-SIP
	21.6 ~ 26.4	15	67	7	102-1430-ND	6.26	6.11	5.95	VFSD1-S24-S15-SIP
NEW! VFSD2-SIP Series NEW!									
5	4.5 ~ 5.5	5	400	40	102-2109-ND	7.86	7.66	7.47	VFSD2-S5-S5-SIP
	4.5 ~ 5.5	12	167	16.7	102-2110-ND	7.86	7.66	7.47	VFSD2-S5-S12-SIP
	4.5 ~ 5.5	15	133	13.3	102-2068-ND	7.86	7.66	7.47	VFSD2-S5-S15-SIP
12	10.8 ~ 13.2	5	400	40	102-2069-ND	7.86	7.66	7.47	VFSD2-S12-S5-SIP
	10.8 ~ 13.2	12	167	16.7	102-2070-ND	7.86	7.66	7.47	VFSD2-S12-S12-SIP
	10.8 ~ 13.2	15	133	13.3	102-2071-ND	7.86	7.66	7.47	VFSD2-S12-S15-SIP
24	21.6 ~ 26.4	5	400	40	102-2072-ND	7.86	7.66	7.47	VFSD2-S24-S5-SIP
	21.6 ~ 26.4	12	167	16.7.	102-2111-ND	7.86	7.66	7.47	VFSD2-S24-S12-SIP
	21.6 ~ 26.4	15	133	13.3	102-2073-ND	7.86	7.66	7.47	VFSD2-S24-S15-SIP

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VHS1-SIP Series

Features:
- 6KVDC Isolation
- Single voltage output
- High efficiency
- Temperature range: -40°C ~ 85°C

Pin	Function
1	+Vin
2	-Vin
5	-Vout
7	+Vout

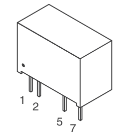

Input Voltage		Output	Output Current			Price Each			CUI
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Part No.
5	4.5 ~ 5.5	5	200	20	102-1449-ND	8.80	8.58	8.36	VHS1-S5-S5-SIP
	4.5 ~ 5.5	12	84	9	102-1450-ND	8.80	8.58	8.36	VHS1-S5-S12-SIP
	4.5 ~ 5.5	15	67	7	102-1451-ND	8.80	8.58	8.36	VHS1-S5-S15-SIP
12	10.8 ~ 13.2	5	200	20	102-1452-ND	8.80	8.58	8.36	VHS1-S12-S5-SIP
	10.8 ~ 13.2	12	84	9	102-1453-ND	8.80	8.58	8.36	VHS1-S12-S12-SIP
	10.8 ~ 13.2	15	67	7	102-1454-ND	8.80	8.58	8.36	VHS1-S12-S15-SIP

VAT1-SMT and VAT2-SMT Series

Features: • 1KVDC Isolation • Dual voltage output • High efficiency • Temperature range: -40°C ~ 85°C

Fig. 1

Pin	Function	Pin	Function
1	-Vin	6	NC
2	+Vin	7	+Vout
3	NC	8	NC
4	COM	9	NC
5	-Vout	10	NC

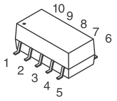

Fig. 2 ***NEW!***

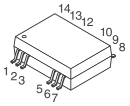

Pin	Function
1	GND
2	Vin
5	-V0
6	0V
7	+Vout
10	-Vout
Others	NC

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Pricing 500	CUI Part No.
Fig. 1 — VAT1-SMT Series										
5	4.5 ~ 5.5	±5	±100	±10	102-1385-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D5-SMT
	4.5 ~ 5.5	±12	±42	±5	102-1386-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D12-SMT
	4.5 ~ 5.5	±15	±33	±4	102-1387-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D15-SMT
12	10.8 ~ 13.2	±5	±100	±10	102-1388-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D5-SMT
	10.8 ~ 13.2	±12	±42	±5	102-1389-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D12-SMT
	10.8 ~ 13.2	±15	±33	±4	102-1390-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D15-SMT
24	21.6 ~ 26.4	±5	±100	±10	102-1391-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D5-SMT
	21.6 ~ 26.4	±12	±42	±5	102-1392-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D12-SMT
	21.6 ~ 26.4	±15	±33	±4	102-1393-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D15-SMT

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Pricing 400	CUI Part No.
NEW! Fig. 2 — VAT2-SMT Series NEW!										
5	4.5 ~ 5.5	±5	±200	±20	102-2119-1-ND	7.34	7.16	6.97	2424.01	VAT2-S5-D5-SMT
	4.5 ~ 5.5	±12	±83	±8	102-2075-1-ND	7.34	7.16	6.97	2424.01	VAT2-S5-D12-SMT
	4.5 ~ 5.5	±15	±67	±7	102-2076-1-ND	7.34	7.16	6.97	2424.01	VAT2-S5-D15-SMT
12	10.8 ~ 13.2	±5	±200	±20	102-2077-1-ND	7.34	7.16	6.97	2424.01	VAT2-S12-D5-SMT
	10.8 ~ 13.2	±12	±83	±8	102-2120-1-ND	7.34	7.16	6.97	2424.01	VAT2-S12-D12-SMT
	10.8 ~ 13.2	±15	±67	±7	102-2121-1-ND	7.34	7.16	6.97	2424.01	VAT2-S12-D15-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND.

VIBLSD1 Series

Features:
• 1KVDC Isolation • Single voltage output • High efficiency • Temperature range: -40°C ~ 85°C • Regulated output

Fig. 1

Pin	Function
1	+Vin
2	-Vin
4	-Vout
6	+Vout

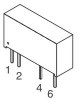

Fig. 2

Pin	Function
1	-Vin
7	NC
9	+Vout
11	-Vout
14	+Vin

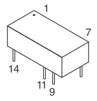

Input Voltage		Output	Output Current			Price Each			CUI
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Part No.
Fig. 1 – SIP Series									
5	4.75 ~ 5.25	5	150	15	102-1431-ND	6.00	5.85	5.70	VIBLSD1-S5-S5-SIP
	4.75 ~ 5.25	12	83	9	102-1432-ND	6.00	5.85	5.70	VIBLSD1-S5-S12-SIP
	4.75 ~ 5.25	15	67	7	102-1433-ND	6.00	5.85	5.70	VIBLSD1-S5-S15-SIP
12	11.4 ~ 12.6	5	150	15	102-1434-ND	6.00	5.85	5.70	VIBLSD1-S12-S5-SIP
	11.4 ~ 12.6	12	83	9	102-1435-ND	6.00	5.85	5.70	VIBLSD1-S12-S12-SIP
	11.4 ~ 12.6	15	67	7	102-1436-ND	6.00	5.85	5.70	VIBLSD1-S12-S15-SIP
24	22.8 ~ 25.2	5	150	15	102-1437-ND	6.00	5.85	5.70	VIBLSD1-S24-S5-SIP
	22.8 ~ 25.2	12	83	9	102-1438-ND	6.00	5.85	5.70	VIBLSD1-S24-S12-SIP
	22.8 ~ 25.2	15	67	7	102-1439-ND	6.00	5.85	5.70	VIBLSD1-S24-S15-SIP
Fig. 2 – DIP Series									
5	4.75 ~ 5.25	5	150	15	102-1440-ND	6.00	5.85	5.70	VIBLSD1-S5-S5-DIP
	4.75 ~ 5.25	12	83	9	102-1441-ND	6.00	5.85	5.70	VIBLSD1-S5-S12-DIP
	4.75 ~ 5.25	15	67	7	102-1442-ND	6.00	5.85	5.70	VIBLSD1-S5-S15-DIP
12	11.4 ~ 12.6	5	150	15	102-1443-ND	6.00	5.85	5.70	VIBLSD1-S12-S5-DIP
	11.4 ~ 12.6	12	83	9	102-1444-ND	6.00	5.85	5.70	VIBLSD1-S12-S12-DIP
	11.4 ~ 12.6	15	67	7	102-1445-ND	6.00	5.85	5.70	VIBLSD1-S12-S15-DIP
24	22.8 ~ 25.2	5	150	15	102-1446-ND	6.00	5.85	5.70	VIBLSD1-S24-S5-DIP
	22.8 ~ 25.2	12	83	9	102-1447-ND	6.00	5.85	5.70	VIBLSD1-S24-S12-DIP
	22.8 ~ 25.2	15	67	7	102-1448-ND	6.00	5.85	5.70	VIBLSD1-S24-S15-DIP

VIBLT-SMT Series

Features:
- SMD package
- Temperature range: -40°C ~ 85°C
- 1KVDC Isolation
- Internal SMD construction
- Short circuit protection
- Industry standard pinout
- No heatsink required
- No external component required

Pin	Function
1	-Vin
2	+Vin
6	-Vout
7	+Vout
Others	NC

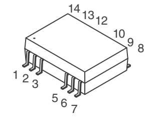

Input Voltage		Output	Output Current			Cut Tape Price Each			T & R‡	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Pricing 400	CUI Part No.
5	4.75 ~ 5.25	5	150	15	102-1789-1-ND	6.38	6.23	6.07	1914.00	VIBLT1-S5-S5-SMT
	4.75 ~ 5.25	12	83	9	102-1790-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S5-S12-SMT
	4.75 ~ 5.25	15	67	7	102-1791-1-ND	6.38	6.23	6.07	1914.00	VIBLT1-S5-S15-SMT
12	11.4 ~ 12.6	5	150	15	102-1792-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S12-S5-SMT
	11.4 ~ 12.6	12	83	9	102-1793-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S12-S12-SMT
	11.4 ~ 12.6	15	67	7	102-1794-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S12-S15-SMT
24	22.8 ~ 25.2	5	150	15	102-1795-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S24-S5-SMT
	22.8 ~ 25.2	12	83	9	102-1796-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S24-S12-SMT
	22.8 ~ 25.2	15	67	7	102-1797-1-ND	6.38	6.23	6.07	2118.16	VIBLT1-S24-S15-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NEW! VWQBS2-SIP Series

Features:
- 1500VDC I/O isolation
- Single voltage output
- High efficiency
- Temperature range: -40°C ~ 85°C

Pin	Function
1	GND
2	Vin
3	CTRL
6	+Vout
7	NC
8	NC
9	0V

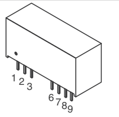

Input Voltage		Output	Output Current			Price Each			CUI
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	1	10	25	Part No.
24	9.0 ~ 36.0	3.3	500	0	102-2112-ND	25.48	24.84	24.21	VWQBS2-Q24-S3.3-SIP
	9.0 ~ 36.0	5	400	0	102-2113-ND	25.48	24.84	24.21	VWQBS2-Q24-S5-SIP
	9.0 ~ 36.0	12	167	0	102-2114-ND	25.48	24.84	24.21	VWQBS2-Q24-S12-SIP
	9.0 ~ 36.0	15	133	0	102-2115-ND	25.48	24.84	24.21	VWQBS2-Q24-S15-SIP
48	18.0 ~ 72.0	3.3	500	0	102-2116-ND	25.48	24.84	24.21	VWQBS2-Q48-S3.3-SIP
	18.0 ~ 72.0	5	400	0	102-2117-ND	25.48	24.84	24.21	VWQBS2-Q48-S5-SIP
	18.0 ~ 72.0	12	167	0	102-2118-ND	25.48	24.84	24.21	VWQBS2-Q48-S12-SIP
	18.0 ~ 72.0	15	133	0	102-2074-ND	25.48	24.84	24.21	VWQBS2-Q48-S15-SIP

2W VWRAS2 and VWRBS2 Series

	Function	
Pin	Single Output	Dual Output
1	-Vin	-Vin
2	+Vin	_Vin
3	CTRL	CTRL
5	NC	NC
6	+Vout	+Vout
7	-Vout	COM
8	CS	-Vo

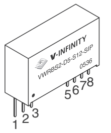

Designed to convert fixed voltages into an isolated regulated voltage, the VWRAS2-SIP and VWRBS2-SIP series are well suited for providing boardmount local supplies in a wide range of applications, including mixed analog/digital circuits, test and measurement equipment, process/machine controls and datacom/telecom fields.

VWRAS2-SIP Series: Features: • Wide (2:1) input range • High efficiency to 80% • Regulated • Dual voltage output • I/O Isolation 1500VDC • No heatsink required • Short circuit protection • Remote on/off • MTBF >1,000,000 hours • Temperature range: -40°C ~ 85°C

VWRBS2-SIP Series: Features: • Wide (2:1) input range • Regulated • High efficiency to 82% • Single voltage output • SIP package style • Industry standard pinout • UL 94V-0 package • No heatsink required • MTBF >1,000,000 hours • Temperature range: -40°C ~ 85°C

Input Voltage		Output	Output		Price Each			CUI
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Current (mA)	Digi-Key Part No.	1	10	25	Part No.
VWRAS2-SIP Series								
5	4.5 ~ 9	±5	±200	102-1521-ND	13.66	13.32	12.98	VWRAS2-D5-D5-SIP
	4.5 ~ 9	±9	±111	102-1522-ND	13.66	13.32	12.98	VWRAS2-D5-D9-SIP
	4.5 ~ 9	±12	±83	102-1523-ND	13.66	13.32	12.98	VWRAS2-D5-D12-SIP
	4.5 ~ 9	±15	±67	102-1524-ND	13.66	13.32	12.98	VWRAS2-D5-D15-SIP
12	9 ~ 18	±5	±200	102-1525-ND	13.66	13.32	12.98	VWRAS2-D12-D5-SIP
	9 ~ 18	±9	±111	102-1526-ND	13.66	13.32	12.98	VWRAS2-D12-D9-SIP
	9 ~ 18	±12	±83	102-1527-ND	13.66	13.32	12.98	VWRAS2-D12-D12-SIP
	9 ~ 18	±15	±67	102-1528-ND	13.66	13.32	12.98	VWRAS2-D12-D15-SIP
24	18 ~ 36	±5	±200	102-1529-ND	13.66	13.32	12.98	VWRAS2-D24-D5-SIP
	18 ~ 36	±12	±83	102-1531-ND	13.66	13.32	12.98	VWRAS2-D24-D12-SIP
	18 ~ 36	±15	±67	102-1532-ND	13.66	13.32	12.98	VWRAS2-D24-D15-SIP
48	36 ~ 72	±5	±200	102-1533-ND	13.66	13.32	12.98	VWRAS2-D48-D5-SIP
	36 ~ 72	±12	±83	102-1535-ND	13.66	13.32	12.98	VWRAS2-D48-D12-SIP
VWRBS2-SIP Series								
5	4.5 ~ 9	5	400	102-1505-ND	12.56	12.25	11.94	VWRBS2-D5-S5-SIP
	4.5 ~ 9	12	167	102-1507-ND	12.56	12.25	11.94	VWRBS2-D5-S12-SIP
	4.5 ~ 9	15	133	102-1508-ND	12.56	12.25	11.94	VWRBS2-D5-S15-SIP
	4.5 ~ 9	24	80	102-1701-ND	12.56	12.25	11.93	VWRBS2-D5-S24-SIP
12	9 ~ 18	5	400	102-1509-ND	12.56	12.25	11.94	VWRBS2-D12-S5-SIP
	9 ~ 18	9	222	102-1510-ND	12.56	12.25	11.94	VWRBS2-D12-S9-SIP
	9 ~ 18	12	167	102-1511-ND	12.56	12.25	11.94	VWRBS2-D12-S12-SIP
	9 ~ 18	15	133	102-1512-ND	12.56	12.25	11.94	VWRBS2-D12-S15-SIP
	9 ~ 18	24	80	102-1703-ND	12.56	12.25	11.93	VWRBS2-D12-S24-SIP
24	18 ~ 36	3.3	500	102-1704-ND	12.56	12.25	11.93	VWRBS2-D24-S3.3-SIP
	18 ~ 36	5	400	102-1513-ND	12.56	12.25	11.94	VWRBS2-D24-S5-SIP
	18 ~ 36	12	167	102-1515-ND	12.56	12.25	11.94	VWRBS2-D24-S12-SIP
	18 ~ 36	15	133	102-1516-ND	12.56	12.25	11.94	VWRBS2-D24-S15-SIP
	18 ~ 36	24	80	102-1705-ND	12.56	12.25	11.93	VWRBS2-D24-S24-SIP
48	36 ~ 72	5	400	102-1517-ND	12.56	12.25	11.94	VWRBS2-D48-S5-SIP
	36 ~ 72	12	167	102-1519-ND	12.56	12.25	11.94	VWRBS2-D48-S12-SIP

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Compact DC Switching Regulators

Pin Compatible with 78xx Linear Regulators

The V78 Series eliminates the need for a heat sink and saving users precious board space. Ideal for compact portable equipment, consumer electronics applications, and space critical commercial and industrial equipment. **Features:** • Non-isolated • Highly efficient • Wide input range • Able to provide positive or negative output • Short circuit protection • Thermal shutdown • Low ripple and noise

Fig. 1

Pin	Function
1	+Vin
2	GND
3	+Vout

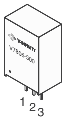

Fig. 2

Pin	Function
1	Vin
7,9	GND
5	Vout
6	Vadj
10	ON/OFF

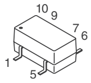

Fig. 3 ***NEW!***

Pin	Function
1	+Vin
2	GND
3	+Vout

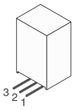

Fig.	Input Voltage Range (VDC)	Output Voltage (VDC)	Ouput Current (mA)	Efficiency		Digi-Key Part No.	Price Each			CUI Part No.
				Vin (min.)	Vin (max.)		1	10	25	
V78xx-500 Series										
1	4.75 ~ 28	3.3	500	90%	80%	102-1708-ND	6.12	5.78	5.61	V7803-500
	6.5 ~ 32	5	500	93%	84%	102-1709-ND	6.12	5.78	5.61	V7805-500
	8 ~ 32	6.5	500	94%	87%	102-1710-ND	6.12	5.78	5.61	V7806-500
	11 ~ 32	9	500	95%	91%	102-1711-ND	6.12	5.78	5.61	V7809-500
	15 ~ 32	12	500	95%	92%	102-1712-ND	6.12	5.78	5.61	V7812-500
	18 ~ 32	15	500	96%	93%	102-1713-ND	6.12	5.78	5.61	V7815-500
V78xx-1000 Series										
1	4.75 ~ 28	3.3	1,000	90%	83%	102-1714-ND	6.89	6.48	6.28	V7803-1000
	6.5 ~ 32	5	1,000	93%	88%	102-1715-ND	6.89	6.48	6.28	V7805-1000
	8 ~ 32	6.5	1,000	94%	90%	102-1716-ND	6.89	6.48	6.28	V7806-1000
	11 ~ 32	9	1,000	95%	92%	102-1717-ND	6.89	6.48	6.28	V7809-1000
	15 ~ 32	12	1,000	95%	94%	102-1718-ND	6.89	6.48	6.28	V7812-1000
V78xx-500-SMT Series										
2	4.5 ~ 28	3.3	500	90%	75%	102-1957-1-ND†	8.24	8.04	7.83	V7803-500-SMT
	4.5 ~ 28	3.3	500	90%	75%	102-1957-2-ND‡	3090.00/500			V7803-500-SMT
	6 ~ 28	5	500	94%	81%	102-1958-1-ND†	8.24	8.04	7.83	V7805-500-SMT
	6 ~ 28	5	500	94%	81%	102-1958-2-ND‡	3090.00/500			V7805-500-SMT
	14 ~ 28	12	500	95%	90%	102-1959-1-ND†	8.24	8.04	7.83	V7812-500-SMT
	14 ~ 28	12	500	95%	90%	102-1959-2-ND‡	3090.00/500			V7812-500-SMT
	17 ~ 28	15	500	96%	92%	102-1960-1-ND†	8.24	8.04	7.83	V7815-500-SMT
	17 ~ 28	15	500	96%	92%	102-1960-2-ND‡	3090.00/500			V7815-500-SMT
NEW! V78xx-1500 Series NEW!										
3	4.75 ~ 18	2.5	1,500	88%	85%	102-2169-ND	9.77	9.24	8.96	V7802-1500
	4.75 ~ 18	3.3	1,500	91%	88%	102-2170-ND	9.77	9.24	8.96	V7803-1500
	6.5 ~ 18	5	1,500	93%	91%	102-2171-ND	9.77	9.24	8.96	V7805-1500
	8 ~ 18	6.5	1,500	95%	93%	102-2172-ND	9.77	9.24	8.96	V7806-1500
NEW! V78xx-2000 Series NEW!										
3	4.75 ~ 18	2.5	2,000	85 %	83%	102-2173-ND	10.75	10.15	9.86	V7802-2000
	4.75 ~ 18	3.3	2,000	87%	86%	102-2174-ND	10.75	10.15	9.86	V7803-2000
	7 ~ 18	5	2,000	91%	88%	102-2175-ND	10.75	10.15	9.86	V7805-2000
	8.5 ~ 18	6.5	2,000	92%	91%	102-2176-ND	10.75	10.15	9.86	V7806-2000
NEW! V78xx-1000R Series, Right Angle NEW!										
3	4.75 ~ 28	3.3	1,000	90%	83%	102-2177-ND	6.89	6.48	6.28	V7803-1000R
	6.5 ~ 32	5	1,000	93%	88%	102-2178-ND	6.89	6.48	6.28	V7805-1000R
	8 ~ 32	6.5	1,000	94%	90%	102-2179-ND	6.89	6.48	6.28	V7806-1000R
	11 ~ 32	9	1,000	95%	92%	102-2180-ND	6.89	6.48	6.28	V7809-1000R
	15 ~ 32	12	1,000	95%	94%	102-2181-ND	6.89	6.48	6.28	V7812-1000R
NEW! V78xx-1500R Series, Right Angle NEW!										
3	4.75 ~ 18	2.5	1,500	88%	85%	102-2182-ND	9.77	9.24	8.96	V7802-1500R
	4.75 ~ 18	3.3	1,500	91%	88%	102-2183-ND	9.77	9.24	8.96	V7803-1500R
	6.5 ~ 18	5	1,500	93%	91%	102-2184-ND	9.77	9.24	8.96	V7805-1500R
	8 ~ 18	6.5	1,500	95%	93%	102-2185-ND	9.77	9.24	8.96	V7806-1500R
NEW! V78xx-2000R Series, Right Angle NEW!										
3	4.75 ~ 18	2.5	2,000	85%	83%	102-2186-ND	10.75	10.15	9.86	V7802-2000R
	4.75 ~ 18	3.3	2,000	87%	86%	102-2187-ND	10.75	10.15	9.86	V7803-2000R
	7 ~ 18	5	2,000	91%	88%	102-2188-ND	10.75	10.15	9.86	V7805-2000R
	8.5 ~ 18	6.5	2,000	92%	91%	102-2189-ND	10.75	10.15	9.86	V7806-2000R

† Cut Tape ‡ Tape and Reel

NEW! Digital DC-DC POL Converter —

Novum NDM1 Series

Features: Auto-control™ Technology: • Automatic adjustment of control loop compensation • Superior transient response

Precise Power Conversion: • 8.5VDC ~ 14VDC input • Programmable output • 10mV set point accuracy

Power Management: • Voltage sequencing • Voltage margining • Synchronize controllers for multiphase operation • Programmable soft start and soft stop • Pre-bias start-up • High reliability non-volatile OTP memory to 125°C

PMBus Compliant

Kit Features: The NDM1DEMO is an easy-to-use demo kit for the Novum 12A and 25A digital DC-DC POL modules.

Kit Includes: • One 12A demo board • One 25A demo board • USB Interface Adapter • Wall plug adapter • Access to V-Infinity Intelligence Center GUI

Fig. 1

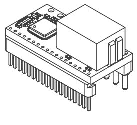

Fig. 2

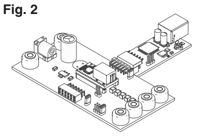

Fig.	Input Voltage		Output Volt. (VDC)	Output Current		Digi-Key Part No.	Price Each			CUI Part No.
	Nom. (VDC)	Range (VDC)		Max. (A)	Min. (A)		1	10	50	
1	12	8.5 ~ 14	0.6 ~ 2.5	12	0	102-2140-ND	24.42	22.38	20.67	NDM1-12-120
	12	8.5 ~ 14	0.6 ~ 2.5	25	0	102-2141-ND	30.98	28.40	26.22	NDM1-25-120
2	NDM1 Demonstration Kit					102-2142-ND	149.49	—	—	NDM1 KIT

3 Watt VAWQ3, 6 Watt VAWQ6 and 12 Watt VAWQ12 Series

Designed to convert a wide input voltage range into an isolated regulated voltage, the VAWQ series is well suited for data transfer equipment, battery operated equipment, distributed power systems, mix analog/digital systems, remote control systems and industrial robot systems. **Features:** • 4:1 input (12V input and a 24V input converter in one) • 3000VDC isolation (can be used in some medical applications) • Industry standard 24-pin DIP packaging.

VAWQ12 Series

Pin	Function
1	CTRL
2,3	GND
11	NC
14	+Vout
16	0V
22,23	Vin

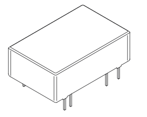

VAWQ3 Series

Pin	Function	
	Single Output	Dual Output
1	NP	NP
2	-Vin	-Vin
3	-Vin	-Vin
5	NP	NP
9	NC	Common
10	NC	NC
11	NC	-Vout
12	NP	NP
13	NP	NP
14	+Vout	+Vout
15	NC	NC
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin
24	NP	NP

VAWQ6 Series

Pin	Function	
	Single Output	Dual Output
1,24	NP	NP
2,3	-Vin	-Vin
4,5	NP	NP
9	NC	Common
10,15	NC	NC
11	NC	-Vout
12,13	NP	NP
14	+Vout	+Vout
16	-Vout	Common
20,21	NP	NP
22,23	+Vin	+Vin

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Minimum Load (mA)	Digi-Key Part No.	Price Each			CUI Part No.
					1	10	25	
VAWQ3 Series — Single Output								
9 ~ 36	3.3	600	15	102-1311-ND	21.00	20.48	19.95	VAWQ3-Q24-S3R3H
	5	600	15	102-1312-ND	21.00	20.48	19.95	VAWQ3-Q24-S5H
	12	250	15	102-1313-ND	21.00	20.48	19.95	VAWQ3-Q24-S12H
	15	200	15	102-1836-ND	21.00	20.48	18.90	VAWQ3-Q24-S15H
18 ~ 72	3.3	600	7.5	102-1838-ND	21.00	20.48	18.90	VAWQ3-Q48-S3R3H
	5	600	7.5	102-1839-ND	21.00	20.48	18.90	VAWQ3-Q48-S5H
	12	250	7.5	102-1840-ND	21.00	20.48	18.90	VAWQ3-Q48-S12H
	15	200	7.5	102-1841-ND	21.00	20.48	18.90	VAWQ3-Q48-S15H
VAWQ3 Series — Dual Output								
9 ~ 36	±5	±300	25	102-1837-ND	24.08	23.48	21.68	VAWQ3-Q24-D5H
	±12	±125	25	102-1314-ND	24.08	23.48	22.88	VAWQ3-Q24-D12H
	±15	±100	25	102-1315-ND	24.08	23.48	22.88	VAWQ3-Q24-D15H
18 ~ 72	±5	±300	12	102-1842-ND	24.08	23.48	21.68	VAWQ3-Q48-D5H
	±12	±125	12	102-1843-ND	24.08	23.48	21.68	VAWQ3-Q48-D12H
	±15	±100	12	102-1844-ND	24.08	23.48	21.68	VAWQ3-Q48-D15H
VAWQ6 Series — Single Output								
9 ~ 36	3.3	1,000	15	102-1316-ND	27.64	26.95	26.26	VAWQ6-Q24-S3R3H
	5	1,000	15	102-1317-ND	27.64	26.95	26.26	VAWQ6-Q24-S5H
	12	470	15	102-1318-ND	27.64	26.95	26.26	VAWQ6-Q24-S12H
	15	400	15	102-1845-ND	27.64	26.95	24.88	VAWQ6-Q24-S15H
18 ~ 72	3.3	1,000	7.5	102-1847-ND	27.64	26.95	24.88	VAWQ6-Q48-S3R3H
	5	1,000	7.5	102-1848-ND	27.64	26.95	24.88	VAWQ6-Q48-S5H
	12	470	7.5	102-1849-ND	27.64	26.95	24.88	VAWQ6-Q48-S12H
	15	400	7.5	102-1850-ND	27.64	26.95	24.88	VAWQ6-Q48-S15H
VAWQ6 Series — Dual Output								
9 ~ 36	±5	±500	25	102-1846-ND	30.68	29.92	27.62	VAWQ6-Q24-D5H
	±12	±230	25	102-1319-ND	30.68	29.91	29.15	VAWQ6-Q24-D12H
	±15	±190	25	102-1320-ND	30.68	29.91	29.15	VAWQ6-Q24-D15H
18 ~ 72	±5	±500	12	102-1851-ND	30.68	29.92	27.62	VAWQ6-Q48-D5H
	±12	±230	12	102-1852-ND	30.68	29.92	27.62	VAWQ6-Q48-D12H
	±15	±190	12	102-1853-ND	30.68	29.92	27.62	VAWQ6-Q48-D15H
VAWQ12 Series — Single Output								
9 ~ 36	3.3	3,500	55	102-1854-ND	41.04	40.02	38.94	VAWQ12-Q24-S3R3
	5	2,400	55	102-1855-ND	41.04	40.02	38.94	VAWQ12-Q24-S5
	12	1,000	25	102-1856-ND	41.04	40.02	38.94	VAWQ12-Q24-S12
	15	800	25	102-1857-ND	41.04	40.02	38.94	VAWQ12-Q24-S15
18 ~ 75	3.3	3,500	20	102-1858-ND	41.04	40.02	38.94	VAWQ12-Q48-S3R3
	5	2,400	20	102-1859-ND	41.04	40.02	38.94	VAWQ12-Q48-S5
	12	1,000	10	102-1860-ND	41.04	40.02	38.94	VAWQ12-Q48-S12
	15	800	10	102-1861-ND	41.04	40.02	38.94	VAWQ12-Q48-S15

10 Watt PTK10 Series

Features: • Industry standard pin out • Wide 4:1 input range • Fully isolated • Over-current protection • Over-voltage protection • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size (2.0" x 1.0" x 0.4") • 3 year warranty

Pin	Function	
	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No pin	Com
5	-Vout	-Vout

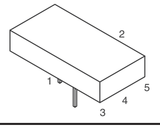

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each				CUI Part No.
				1	10	25	50	
Single Output								
10-36	3.3	2.4	102-1070-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S3
	5	2.0	102-1071-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S5
	12	0.9	102-1072-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S12
	15	0.7	102-1230-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S15
20-72	3.3	2.4	102-1073-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S3
	5	2.0	102-1074-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S5

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

10 Watt PTK10 Series *(Cont.)*

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
20-72	12	0.9	102-1075-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S12
	15	0.7	102-1234-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S15
Dual Output								
10-36	±5	1.0	102-1231-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D5
	±12	0.45	102-1232-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D12
	±15	0.35	102-1233-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D15
20-72	±5	1.0	102-1235-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D5
	±12	0.45	102-1236-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D12
	±15	0.35	102-1237-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D15

15 Watt VBED15 Series

Features:
- 15W isolated output
- Efficiency to 83%
- 2:1 input range
- Compact size (2.0" x 1.0" x 0.4")
- Continuous short circuit protection
- Remote on/off control
- Output trim on single output models

Pin	Function
1	+Vin
2	-Vin
3	+Vout
4	Trim/Common
5	-Vout
6	Remote

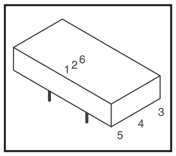

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
Single Output								
9-18	3.3	3	102-1246-ND	45.10	43.98	42.85	40.59	VBED15-D12-S3R3-1A
	5	3	102-1247-ND◆	45.10	43.98	42.85	40.59	VBED15-D12-S5-1A
9-18	12	1.25	102-1248-ND◆	45.10	43.98	42.85	40.59	VBED15-D12-S12-1A
18-36	3.3	3	102-1250-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S3R3-1A
	5	3	102-1251-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S5-1A
	12	1.25	102-1252-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S12-1A
Dual Output — RoHS Compliant								
9-18	±12	±.625	102-1249-ND	50.96	49.69	48.42	45.87	VBED15-D12-D12-1
18-36	±12	±.625	102-1253-ND	50.96	49.69	48.42	45.87	VBED15-D24-D12-1

◆ *RoHS Compliant*

Step Up Voltage PK15 and PK25 Series

RoHS COMPLIANT

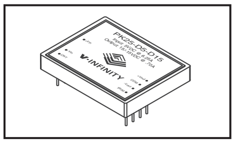

Ideal for applications using low voltage distributed power architecture.

Features:
- Output voltage trim • Remote on/off • Wide 2:1 input range • Fully isolated • Low ripple and noise • Over-current protection • HI-POT tested • High efficiency • 3 year warranty

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
Single Output								
4.5-9	12	1.7	102-1604-ND	71.00	69.23	67.45	63.90	PK25-D5-S12
Dual Output								
4.5-7.2	±12	0.5	102-1602-ND	49.58	48.35	47.11	44.63	PK15-D5-D12

15 Watt PTK15 and 25 Watt PTK25 Series

Features: • Industry standard pin out • Fully isolated • Output voltage trimable • Output on/off control • Over-current protection • Over-voltage protection • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size 2.0" x 2.0" x 0.4" • 3 year warranty **Input:** • Parameter: Switching frequency • PTK15; Nominal: 250kHz • PTK25; Nominal: 300kHz **Output:** • Parameter: Output trim range • Conditions/Description: With external trim resistors • Minimum: -10% • Maximum: +10%

Pin	Function Single Output	Dual Output	Triple Output
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	No pin	No pin	No pin
4	CNT	CNT	CNT
5	NC	+Vout	+Vaux
6	+Vout	Com	+Vout
7	-Vout	-Vout	Com
8	Trim	Trim	-Vaux

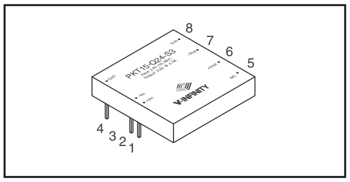

15 Watt PTK15 and 25 Watt PTK25 Series with Screw Terminals

Features: • U-Frame with screw-terminals • Wide 4:1 (PTK15); Wide 2:1 (PTK25) input range • Fully isolated • Output voltage trimable • Output on/off control • Over-current protection • Six-sided EMI shielding • 3 year warranty

Pin	Function Single Output	Dual Output
1	N.C.	+Vout
2	+Vout	Com
3	-Vout	-Vout
4	Trim	Trim
5	Case	Case
6	On/Off	On/Off
7	-Vin	-Vin
8	+Vin	+Vin

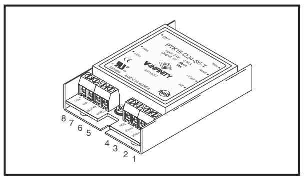

Output	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
PTK15 Series — Wide 4:1 Input Range									
Single	10-36	3.3	4.0	102-1076-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S3
	10-36	5	3.0	102-1077-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S5
	10-36	12	1.25	102-1078-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S12
	10-36	15	1.0	102-1209-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S15
	20-72	5	3.0	102-1086-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S5
	20-72	12	1.25	102-1087-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S12
	20-72	15	1.0	102-1203-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S15
Chassis Kit for PTK15 Series – Single Output – 10-36 Input Voltage ★				102-1296-ND◆	11.50	11.22	10.93	10.35	UF224S36
Dual	10-36	±5	1.5	102-1079-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D5
	10-36	±12	0.625	102-1080-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D12
	10-36	±15	0.5	102-1210-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D15
	20-72	±12	0.625	102-1089-ND◆	49.58	48.35	47.11	44.63	PTK15-Q48-D12
	20-72	±15	0.5	102-1204-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D15
Triple	10-36	5/±12	1.5/0.31	102-1082-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-T512
	10-36	5/±15	1.5/0.25	102-1084-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-T515
	20-72	5/±12	1.5/0.31	102-1091-ND◆	49.58	48.35	47.11	44.63	PTK15-Q48-T512
PTK15 Series — Wide 4:1 Input Range with Screw Terminals — RoHS Compliant									
Single	10-36	5	3.0	102-1586-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S5-T
	10-36	12	1.25	102-1587-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S12-T
	10-36	15	1.0	102-1588-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S15-T
	20-72	12	1.25	102-1591-ND	59.04	57.57	56.09	53.14	PTK15-Q48-S12-T
Dual	10-36	±12	0.625	102-1589-ND	61.58	60.05	58.51	55.43	PTK15-Q24-D12-T
PTK25 Series — Wide 2:1 Input Range									
Single	18-36	5	5.0	102-1095-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S5
	18-36	12	2.0	102-1096-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S12
	18-36	15	1.6	102-1205-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S15
	36-72	15	1.6	102-1207-ND◆	71.00	69.23	67.45	63.90	PTK25-D48-S15
Chassis Kit for PTK25 Series – Single Output ★				102-1297-ND◆	11.50	11.22	10.93	10.35	UF224S75
Dual	18-36	±12	1.0	102-1098-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-D12
	18-36	±15	0.8	102-1206-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-D15
	36-72	±15	0.8	102-1208-ND	74.78	72.92	71.05	67.31	PTK25-D48-D15
Triple	18-36	5/±15	3.5/0.25	102-1102-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-T515
PTK25 Series — Wide 2:1 Input Range with Screw Terminals — RoHS Compliant									
Single	18-36	5	5.0	102-1160-ND	83.00	80.93	78.85	74.70	PTK25-D24-S5-T
	18-36	12	2.0	102-1161-ND	83.00	80.93	78.85	74.70	PTK25-D24-S12-T
	18-36	15	1.6	102-1594-ND	83.00	80.93	78.85	74.70	PTK25-D24-S15-T
	36-72	5	5.0	102-1162-ND	83.00	80.93	78.85	74.70	PTK25-D48-S5-T
	36-72	12	2.0	102-1163-ND	83.00	80.93	78.85	74.70	PTK25-D48-S12-T
Dual	18-36	±12	1.0	102-1595-ND	83.00	80.93	78.85	74.70	PTK25-D24-D12-T
	36-72	±12	1.0	102-1597-ND	83.00	80.93	78.85	74.70	PTK25-D48-D12-T
DIN Rail Mounting Kit				102-1832-ND	4.00	3.90	3.80	3.60	STK-DIN

◆ *RoHS Compliant* ★ **DIN Rail Mounting Kit available when using Chassis Kit or Screw Terminal Converters**

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

30 Watt VCD30 Series

Features:

• 25 ~ 30W Isolated output • Efficiency to 85% • 2:1 Input range • Six-sided shield • Remote on/off control • Output trimming

Pin Assignments		
Pin	**Single Output**	**Dual Output**
1	Remote on/off control	Remote on/off control
2	No pin	No pin
3	-Vin	-Vin
4	+Vin	+Vin
5	Trim	Trim
6	-Vout	-Vout
7	+Vout	Common
8	No pin	+Vout

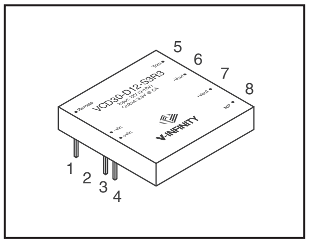

30 Watt VCD30 Series with Screw Terminals

Features:

• 25 ~ 30W Isolated output • Efficiency to 85% • 2:1 Input range • Six-sided shield • Remote on/off control • Output trimming

Pin Assignments		
Pin	**Single Output**	**Dual Output**
1	N.C.	+Vout
2	+Vout	Com
3	-Vout	-Vout
4	Trim	Trim
5	Case	Case
6	On/Off	On/Off
7	-Vin	-Vin
8	+Vin	+Vin

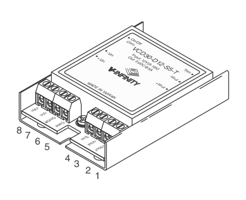

Output	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
VCD30 Series									
Single	9-18	3.3	5	102-1238-ND	71.00	69.23	67.45	63.90	VCD30-D12-S3R3
	9-18	5	5	102-1239-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S5
	9-18	12	2.5	102-1240-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S12
	9-18	15	2.0	102-1566-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S15
Chassis Kit for VCD30 Series – Single Output				102-1295-ND◆	11.50	11.22	10.93	10.35	UF224S18
Dual	9-18	±12	±1.25	102-1241-ND◆	74.78	72.92	71.05	67.31	VCD30-D12-D12
	9-18	±15	±1.0	102-1567-ND◆	74.78	72.91	71.04	67.31	VCD30-D12-D15
VCD30 Series with Screw Terminals — RoHS Compliant									
Single	9-18	5	5	102-1598-ND	83.00	80.93	78.85	74.70	VCD30-D12-S5-T
	9-18	12	2.5	102-1608-ND	83.00	80.93	78.85	74.70	VCD30-D12-S12-T
	9-18	15	2.0	102-1599-ND	83.00	80.93	78.85	74.70	VCD30-D12-S15-T

◆ ***RoHS Compliant***

Single Output Half Brick Converters

VHB50W Series: Features:• 33W ~ 50W isolated output • 4:1 Input range • Efficiency to 84% • Five-sided aluminum case • Remote on/off control • Continuous short circuit protection • UL listed • Industry standard half-brick package

VHB75 Series: Features: • 37.5W ~ 75W Isolated output • 2:1 Input range • Efficiency to 85% • Five-sided metal case • Remote on/off control • Continuous short circuit protection • UL listed • 300kHz Switching frequency • Regulated outputs • Industry standard half-brick package

VHB100W Series: Features: • 66W ~ 100W Isolated output • 4:1 Input range • Efficiency to 88% • Remote on/off control • Continuous short circuit protection • Industry standard half-brick package

VHB200W Series: Features: • 132W ~ 200W Isolated output • 4:1 Input range • Efficiency to 89% • Remote on/off control • Continuous short circuit protection • Industry standard half-brick package

Pin Assignments	
Pin	**Single Output**
1	+Vin
2	On/Off
3	Case
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

Fig. 1

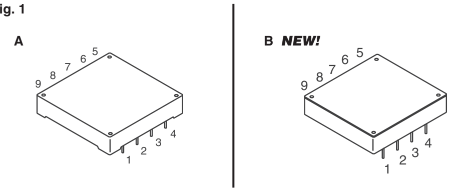

Fig.	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Minimum Load (mA)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
VHB50W Half Brick Series — RoHS Compliant										
1A	9 ~ 36	3.3	10	50	102-1321-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S3R3
	9 ~ 36	5	10	50	102-1322-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S5
	9 ~ 36	12	4.16	50	102-1323-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S12
	9 ~ 36	15	3.33	50	102-1568-ND	85.46	83.32	81.19	76.92	VHB50W-Q24-S15
	9 ~ 36	24	2.08	50	102-1324-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S24
	9 ~ 36	28	1.78	50	102-1961-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q24-S28
	9 ~ 36	48	1.04	50	102-1690-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S48
	18.0 ~ 75.0	3.3	10	50	102-1962-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S3R3
	18.0 ~ 75.0	5	10	50	102-1963-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S5
	18.0 ~ 75.0	12	4.16	50	102-1964-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S12
	18.0 ~ 75.0	15	3.33	50	102-1965-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S15
	18.0 ~ 75.0	24	2.08	50	102-1966-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S24
	18.0 ~ 75.0	28	1.78	50	102-1967-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S28
	18.0 ~ 75.0	48	1.04	50	102-1968-ND ***NEW!***	85.46	83.33	81.19	76.92	VHB50W-Q48-S48
VHB75 Single Output Series										
1A	9 ~ 18	2.5	15	50	102-1254-ND	99.90	97.41	94.91	89.91	VHB75-D12-S2R5
	9 ~ 18	3.3	15	50	102-1255-ND	99.90	97.41	94.91	89.91	VHB75-D12-S3R3
	9 ~ 18	5	15	50	102-1256-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S5
	9 ~ 18	12	6.25	50	102-1257-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S12
	9 ~ 18	15	5	50	102-1569-ND◆	99.90	97.40	94.91	89.91	VHB75-D12-S15
	9 ~ 18	24	3.13	50	102-1258-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S24
	18 ~ 36	2.5	15	50	102-1259-ND	99.90	97.41	94.91	89.91	VHB75-D24-S2R5
	18 ~ 36	3.3	15	50	102-1260-ND	99.90	97.41	94.91	89.91	VHB75-D24-S3R3
	18 ~ 36	5	15	50	102-1261-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S5
	18 ~ 36	12	6.25	50	102-1262-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S12
	18 ~ 36	15	5	50	102-1570-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S15
	18 ~ 36	24	3.13	50	102-1263-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S24
NEW! VHB100W Half Brick Series — RoHS Compliant NEW!										
1A	9.0 ~ 36.0	5	20	35	102-1969-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S5
	9.0 ~ 36.0	12	8.3	35	102-1970-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S12
	9.0 ~ 36.0	15	6.7	35	102-1971-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S15
	9.0 ~ 36.0	24	4.17	35	102-1972-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S24
	9.0 ~ 36.0	28	3.57	35	102-1973-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S28
	9.0 ~ 36.0	48	2.08	35	102-1974-ND	141.90	138.36	134.81	127.71	VHB100W-Q24-S48
	18.0 ~ 75.0	5	20	50	102-1975-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S5
	18.0 ~ 75.0	12	8.3	50	102-1976-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S12
	18.0 ~ 75.0	15	6.7	50	102-1977-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S15
	18.0 ~ 75.0	24	4.17	50	102-1978-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S24
	18.0 ~ 75.0	28	3.57	50	102-1979-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S28
	18.0 ~ 75.0	48	2.08	50	102-1980-ND	141.90	138.36	134.81	127.71	VHB100W-Q48-S48
NEW! VHB200W Half Brick Series — RoHS Compliant NEW!										
1B	10.0 ~ 36.0	5	40	150	102-1981-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S5
	10.0 ~ 36.0	12	16.7	100	102-1982-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S12
	10.0 ~ 36.0	15	13.3	100	102-1983-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S15
	10.0 ~ 36.0	24	8.3	100	102-1984-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S24
	10.0 ~ 36.0	28	7.1	100	102-1985-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S28

◆ ***RoHS Compliant***

(Continued)

Single Output Half Brick Converters *(Cont.)*

Fig.	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Minimum Load (mA)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
1B	10.0 ~ 36.0	48	4.2	100	102-1986-ND	203.60	198.51	193.42	183.24	VHB200W-Q24-S48
	18.0 ~ 75.0	5	40	80	102-1987-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S5
	18.0 ~ 75.0	12	16.7	60	102-1992-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S12
	18.0 ~ 75.0	15	13.3	60	102-1988-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S15
	18.0 ~ 75.0	24	8.3	60	102-1989-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S24
	18.0 ~ 75.0	28	7.1	60	102-1990-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S28
	18.0 ~ 75.0	48	4.2	30	102-1991-ND	203.60	198.51	193.42	183.24	VHB200W-Q48-S48

Half Brick Heatsinks

RoHS COMPLIANT

Description	Dimensions – mm L x W x H	Thermal Resistance C/Watt	Digi-Key Part No.	Price Each	CUI Part No.
Aluminum, Black	58 x 61 x 11.5	10.3	102-1488-ND	2.42	VHS-45
Aluminum, Black	58 x 61 x 24	4.7	102-1489-ND	3.24	VHS-95

Chassis Mount DC-DC Converters — 50 Watt VHK50W, 100 Watt VHK100W and 200 Watt VHK200W Series

RoHS COMPLIANT

These are rugged DC-DC converters designed for high reliability applications, featuring integral heat sink, over-temperature protection, over-current protection and input transient voltage protection.

VHK50W Series:

Features: • 25W ~ 50W isolated output • Efficiency to 83% • 4:1 Input range • Regulated output • Continuous short circuit protection • Metal enclosure with integrated heatsink • Rugged design • Over-temperature shutdown

VHK100W Series:

Features: • 66W ~ 100W Isolated output • Efficiency to 87% • 4:1 Input range • Regulated output • Continuous short circuit protection • Metal enclosure with integrated heatsink • Rugged design • Over-temperature shutdown

VHK200W Series:

Features: • 132W ~ 200W Isolated output • Efficiency to 87% • 4:1 Input range • Regulated output • Continuous short circuit protection • Metal enclosure with integrated heatsink • Rugged design • Over-temperature shutdown

Pin Assignments	
Pin	Single Output
1	-Vout
2	-S
3	Trim
4	+S
5	+Vout
6	Case
7	Remote
8	-Vin
9	+Vin

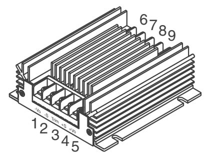

Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Minimum Load (mA)	Digi-Key Part No.	Price Each 1	10	25	50	CUI Part No.
VHK50W Single Output Series									
9 ~ 36	3.3	10	50	102-1819-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S3R3
	5	10	50	102-1820-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S5
	12	4.16	50	102-1821-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S12
	15	3.33	50	102-1822-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S15
	24	2.08	50	102-1823-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S24
	28	1.78	50	102-2020-ND ***NEW!***	125.95	118.95	111.96	104.96	VHK50W-Q24-S28
	48	1.04	50	102-1824-ND	125.95	118.95	111.96	104.96	VHK50W-Q24-S48
18 ~ 75	3.3	10	50	102-1825-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S3R3
	5	10	50	102-1826-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S5
	12	4.16	50	102-1827-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S12
	15	3.33	50	102-1828-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S15
	24	2.08	50	102-1829-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S24
	28	1.78	50	102-2021-ND ***NEW!***	125.95	118.95	111.96	104.96	VHK50W-Q48-S28
	48	1.04	50	102-1830-ND	125.95	118.95	111.96	104.96	VHK50W-Q48-S48
VHK100W Single Output Series									
9 ~ 36	3.3	20	35	102-1807-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S3R3
	5	20	35	102-1808-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S5
	12	8.3	35	102-1809-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S12
	15	6.7	35	102-1810-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S15
	24	4.17	35	102-1811-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S24
	28	3.57	35	102-2022-ND ***NEW!***	177.97	168.08	158.20	148.31	VHK100W-Q24-S28
	48	2.08	35	102-1812-ND	177.97	168.08	158.20	148.31	VHK100W-Q24-S48
18 ~ 75	3.3	20	50	102-1813-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S3R3
	5	20	50	102-1814-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S5
	12	8.3	50	102-1815-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S12
	15	6.7	50	102-1816-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S15
	24	4.17	50	102-1817-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S24
	28	3.57	50	102-2023-ND ***NEW!***	177.97	168.08	158.20	148.31	VHK100W-Q48-S28
	48	2.08	50	102-1818-ND	177.97	168.08	158.20	148.31	VHK100W-Q48-S48
VHK200W Single Output Series									
10 ~ 36	12	16.7	100	102-1890-ND	218.76	205.92	193.02	180.15	VHK200W-Q24-S12
	15	13.3	100	102-1891-ND	218.76	205.92	193.02	180.15	VHK200W-Q24-S15
	24	8.3	100	102-1892-ND	218.76	205.92	193.02	180.15	VHK200W-Q24-S24
	28	7.14	100	102-2024-ND ***NEW!***	218.76	205.89	193.02	180.16	VHK200W-Q24-S28
	48	4.2	100	102-1893-ND	218.76	205.92	193.02	180.15	VHK200W-Q24-S48
18 ~ 75	12	16.7	60	102-1894-ND	218.76	205.92	193.02	180.15	VHK200W-Q48-S12
	15	13.3	60	102-1895-ND	218.76	205.92	193.02	180.15	VHK200W-Q48-S15
	24	8.3	60	102-1896-ND	218.76	205.92	193.02	180.15	VHK200W-Q48-S24
	28	7.14	60	102-2025-ND ***NEW!***	218.76	205.89	193.02	180.16	VHK200W-Q48-S28
	48	4.2	30	102-1897-ND	218.76	205.92	193.02	180.15	VHK200W-Q48-S48
DIN Rail Mounting Bracket for VHK Series				102-1831-ND	9.00	8.78	8.55	8.10	VHK-DIN

NEW! DC EMI Filters — VFM Series

RoHS COMPLIANT

Fig. 1

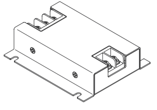

Fig. 2

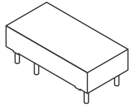

Features: • Compact Size • Suitable for use with a wide range of DC/DC converters • Reduces common and differential mode noise

Fig.	Input Voltage Range (VDC)	Input Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	50	CUI Part No.
1	0 ~ 75	15	102-2056-ND	31.82	29.84	27.85	VFM-15C
	0 ~ 36	25	102-2057-ND	37.60	35.25	32.90	VFM-25C
2	0 ~ 75	10	102-2054-ND	16.74	15.66	15.12	VFM-10A
	0 ~ 75	20	102-2055-ND	23.92	22.43	20.93	VFM-20A

DELTA NEW! Power Supplies

PMC Series

Delta's PMC Series offers a nominal output voltage of 12V and 24V, a wide temperature range from -10°C to 70°C, and a highly dependable minimum holdup time. The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case is shock and vibration resistant according to IEC60068-2. Delta's panel mount power supplies offer a wide input voltage range design, they are usable worldwide. The output terminal types and locations are also thoughtfully designed for the fast wiring and easy installation of these power supplies. **Features**: • Full aluminum casing for lightweight and corrosion resistant handling • Universal AC input • Overload protection • Overvoltage protection • Thermal protection • Expected lifetime: 10 years

Fig.	Input Voltage (VAC)	Dimensions L x W x H (mm)	Output Voltage (VDC)	Output Current (A)	Digi-Key Part No.	Price Each 1	10	25	Delta Part No.
Panel Mount									
1	85 - 264	98mm x 97mm x 38mm	12	3.0	603-1238-ND	34.90	31.93	26.73	PMC-12V035W1AA
	85 - 264	128mm x 97mm x 38mm	12	4.17	603-1239-ND	37.01	33.87	28.35	PMC-12V050W1AA
	85 - 264	158mm x 97mm x 38mm	12	8.33	603-1240-ND	51.82	47.41	39.69	PMC-12V100W1AA
	85 - 264	128mm x 97mm x 38mm	24	1.46	603-1241-ND	35.96	32.90	27.54	PMC-24V035W1AA
	85 - 264	128mm x 97mm x 38mm	24	2.1	603-1242-ND	39.13	35.80	29.97	PMC-24V050W1AA
	85 - 264	158mm x 97mm x 38mm	24	4.17	603-1243-ND	53.93	49.35	41.31	PMC-24V100W1AA

CliQ Series

Delta's switching power supplies provide power ranging up to 7,200W+ per power module, with efficiency of over 90% and power density of up to 25W/inch3. These products are modular, redundant, hot swappable and provide universal input power systems for high reliability. Delta offers custom design and high volume manufacturing capability of power supplies.

Fig.	Input Voltage Range VAC	VDC	Dimensions L x W x H (mm)	Output Voltage (VDC)	Current Output (A)	Digi-Key Part No.	Price Each 1	10	25	Delta Part No.
DIN Rail										
2	85 - 264	120 - 375	100 x 32 x 100	12	1.25	603-1234-ND	36.52	33.42	27.98	DRP012V015W1AZ
	85 - 264	120 - 375	100 x 32 x 100	12	2.5	603-1235-ND	39.48	36.12	30.24	DRP012V030W1AZ
4	85 - 264	120 - 375	121 x 50 x 118.2	12	8.33	603-1237-ND	95.74	87.60	73.34	DRP012V100W1AA
5	85 - 264	120 - 375	121 x 32 x 120	12	5	603-1236-ND	71.06	65.02	54.44	DRP012V060W1AA
3	85 - 264	120 - 375	121 x 160 x 118.5	24	20	603-1229-ND	246.75	225.75	189.00	DRP024V480W1AA
	320 - 575	450 - 800	121 x 160 x 118.5	24	20	603-1233-ND	301.04	275.42	230.58	DRP024V480W3AA
4	85 - 264	120 - 375	121 x 50 x 118.2	24	5	603-1227-ND	104.62	95.72	80.14	DRP024V120W1AA
	85 - 264	120 - 375	121 x 85 x 118.5	24	10	603-1228-ND	174.70	159.84	133.82	DRP024V240W1AA
	320 - 575	450 - 800	121 x 70 x 118.5	24	2.5	603-1230-ND	116.47	106.56	89.21	DRP024V060W3AA
	320 - 575	450 - 800	121 x 70 x 118.5	24	5	603-1231-ND	132.26	121.01	101.31	DRP024V120W3AA
	320 - 575	450 - 800	121 x 85 x 120.5	24	10	603-1232-ND	206.28	188.73	158.01	DRP024V240W3AA
5	85 - 264	120 - 375	120.6 x 32 x 113	24	2.5	603-1225-ND	47.38	43.35	36.29	DRP024V060W1AZ
	85 - 264	120 - 375	121 x 32 x 120	24	2.5	603-1226-ND	67.12	61.41	51.41	DRP024V060W1AA

Fig. 1

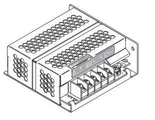

Fig. 2

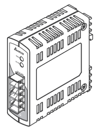

Fig. 3

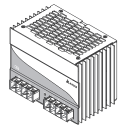

Fig. 4

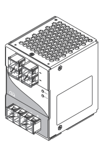

Fig. 5

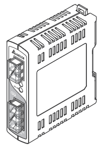

NEW! DC-DC Power Modules

Features: Delphi Series IPM12 and IMP24S: • High efficiency • Remote ON/OFF • Output short circuit protection • Copper pad to provide excellent thermal performance

Delphi Series DNT: • High efficiency • Output voltage programmable from 0.75Vdc to 5Vdc via external resistor • Input: Under Voltage Look Out (UVLO), Over Current Protection (OCP) • Remote ON/OFF

Delphi Series DNM and DNL: • High efficiency • Output voltage tracking • No minimum load required • Output voltage programmable from 0.75Vdc to 5Vdc via external resistor • Remote ON/OFF • Remote sense

Delphi Series E36SR, S36SE, E48SH and E48SR: • High efficiency • Input: Under Voltage Look Out (UVLO) • Output: Over Temperature Protection (OTP), Over Current Protection (OCP), Over Voltage Protection (OVP) • No minimum load required

Delphi Series S48SP: • High efficiency • Input: Under Voltage Look Out (UVLO) • Output: Over Temperature Protection (OTP), Over Current Protection (OCP), Over Voltage Protection (OVP) • Output voltage trim ±10% • 2250V isolation and basic insulation • No minimum load required

Delphi Series V36SE AND L36SA: • High efficiency • Input: Under Voltage Look Out (UVLO) • Over Temperature Protection (OTP) • Output: Over Current Protection (OCP), Over Voltage Protection (OVP), default is auto-recovery • 2250V isolation and basic insulation • No minimum load required

Delphi Series V48SR: • High efficiency • Input: Under Voltage Look Out (UVLO) and Over Voltage Protection (OVP), Over Temperature Protection (OTP) • Output: Over Current Protection (OCP), Over Voltage Protection (OVP) • Output voltage trim -20%, +10% • 2250V isolation and basic insulation • No minimum load required

Delphi Series DNS: • High efficiency • No minimum load required • Output voltage programmable from 0.75Vdc to 5Vdc via external resistor • Input: Under Voltage Look Out (UVLO) • Output: Over Temperature Protection (OTP), Over Current Protection (OCP) • Remote ON/OFF

Fig.	Input Voltage Range (VAC)	Dimensions L x W x H (mm)	Output Voltage (VDC)	Current Output (A)	Digi-Key Part No.	Price Each 1	5	10	Delta Part No.
POL DC-DC									
1	8 ~ 14	17.8 x 15 x 7.8	0.9 ~ 5	4	941-1021-1-ND†	18.23	17.24	15.92	IPM12C0A0S04FA
	8 ~ 14	17.8 x 15 x 7.8	0.9 ~ 5	4	941-1021-2-ND‡		2432.50/200		IPM12C0A0S04FA
	11 ~ 36	17.8 x 15 x 7.8	3.3 ~ 6.5	3	941-1010-1-ND†	18.23	17.24	15.92	IPM24S0B0S03FA
	11 ~ 36	17.8 x 15 x 7.8	3.3 ~ 6.5	3	941-1010-2-ND‡		2432.50/200		IPM24S0B0S03FA
	20 ~ 36	17.8 x 15 x 7.8	8 ~ 15	3	941-1022-1-ND†	18.23	17.24	15.92	IPM24S0C0S03FA
	20 ~ 36	17.8 x 15 x 7.8	8 ~ 15	3	941-1022-2-ND‡		2432.50/200		IPM24S0C0S03FA
2	2.4 ~ 5.5	20.3 x 11.4 x 6.9	0.75 ~ 3.63	5	941-1016-1-ND†	14.47	13.68	12.63	DNT04S0A0S05NFA
	2.4 ~ 5.5	20.3 x 11.4 x 6.9	0.75 ~ 3.63	5	941-1016-2-ND‡		2484.00/300		DNT04S0A0S05NFA
	8.3 ~ 14	33.0 x 13.5 x 9.7	0.75 ~ 5	10	941-1009-1-ND†	22.10	20.90	19.29	DNM10S0A0S10PFD
	8.3 ~ 14	33.0 x 13.5 x 9.7	0.75 ~ 5	10	941-1009-2-ND‡		2475.20/170		DNM10S0A0S10PFD
	8.3 ~ 14	33.0 x 13.5 x 8.8	0.75 ~ 5	16	941-1014-1-ND†	25.63	24.24	22.37	DNL10S0A0S16PFD
	8.3 ~ 14	33.0 x 13.5 x 9.7	0.75 ~ 5	16	941-1014-2-ND‡		2909.55/170		DNL10S0A0S16PFD
8th Brick DC-DC									
3	18 ~ 75	58.4 x 22.8 x 9.2	3.3	20	941-1017-ND	67.10	65.13	64.14	E36SR3R320NRFH
	36 ~ 75	58.4 x 22.8 x 9.5	3.3	30	941-1019-ND	56.41	54.75	53.92	E48SH3R330NRFA
	36 ~ 75	58.4 x 22.8 x 8.4	3.3	20	941-1020-ND	55.42	53.79	52.98	E48SR3R320NRFA
	36 ~ 75	58.4 x 22.8 x 9.5	5	20	941-1018-ND	59.21	57.47	56.60	E48SH05020NRFA
	36 ~ 75	58.4 x 22.9 x 8.4	12	7	941-1001-ND	55.52	53.89	53.08	E48SR12007NRFA
1 x 1 Brick DC-DC									
4	18 ~ 75	27.9 x 24.4 x 8.7	5	3	941-1004-ND	27.27	26.47	26.07	S36SE05003NRFB
	18 ~ 75	27.9 x 24.4 x 8.7	3.3	5	941-1005-ND	29.21	28.35	27.92	S36SE3R305NRFB
	36 ~ 75	33.0 x 24.4 x 8.55	5	7	941-1006-ND	38.85	37.71	37.14	S48SP05007NRFB
	18 ~ 75	27.9 x 24.4 x 8.7	12	1.3	941-1025-ND	27.27	26.47	26.07	S36SE12001NRFB
	36 ~ 75	27.9 x 24.4 x 8.7	12	2	941-1026-ND	29.21	28.35	27.92	S36SE12002PRFZ
	36 ~ 75	33.0 x 24.4 8.55	12	3	941-1027-ND	38.93	37.79	37.22	S48SP12003NRFB
1/4th Brick DC-DC									
5	48	57.9 x 36.8 x 12.7	12	25	941-1012-ND	86.75	84.20	82.93	Q48SK12025NRFH
	48	57.9 x 36.8 x 12.7	12	33	941-1013-ND	92.41	89.70	88.34	Q48SK12033NRFH
1/16th Brick DC-DC									
5	18 ~ 75	33 x 22.9 x 9.3	3.3	15	941-1029-ND	40.87	39.67	39.07	V36SE3R315NRFA
	36 ~ 75	33 x 22.9 x 9.5	3.3	20	941-1031-ND	55.32	53.70	52.88	V48SR3R320NRFA
	18 ~ 75	33 x 22.8 x 9.3	5	10	941-1028-ND	40.87	39.67	39.07	V36SE05010NRFA
	36 ~ 75	33 x 22.9 x 9.5	5	13	941-1030-ND	55.27	53.65	52.83	V48SR05013NRFA
	36 ~ 75	33.0 x 22.9 x 9.5	12	5.5	941-1008-ND	55.23	53.61	52.80	V48SR12005NRFA
6	18 ~ 75	33.0 x 22.8 x 8.7	12	4.2	941-1007-ND	40.87	39.67	39.07	V36SE12004NRFA
POL DC-DC									
7	8.3 ~ 14	25.4 x 6.7 x 12.7	0.75 ~ 5	6	941-1011-ND	10.20	9.90	9.75	DNS10S0A0R06NFD
8	8.3 ~ 14	50.8 x 8.5 x 13.4	0.75 ~ 3.3	10	941-1015-ND	14.14	13.73	13.52	DNM04S0A0R10NFD
2 x 1.6 DC-DC Converter									
9	18 ~ 75	39.4 x 49.6 x 8.9	3.3	15	941-1024-ND	58.34	56.63	55.77	L36SA3R315NRFA
	18 ~ 75	39.4 x 49.6 x 8.9	12	4	941-1023-ND	58.36	56.65	55.79	L36SA12004NRFA

† Cut Tape ‡ Tape and Reel

Fig. 1

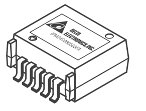

Fig. 2

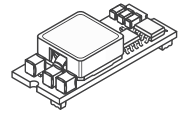

Fig. 3

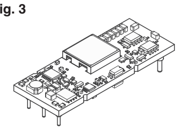

Fig. 4

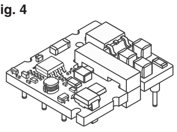

Fig. 5

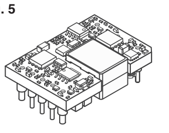

Fig. 6

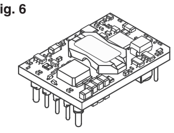

Fig. 7

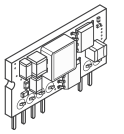

Fig. 8

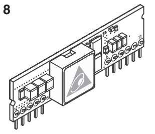

Fig. 9

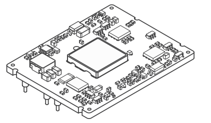

NEW! PHIHONG

Wall and Desktop Transformers

PSAA15W Series: Features: • Class B EMI • <0.25mA Leakage Current • Compact Size **PSAA18U Series: Features:** • Efficiency Level V Compliance • Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant • Class B EMI **PSAA60M Series: Features:** • Class B EMI • Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant • No load power consumption <0.5W • ENERGY STAR EPS Version 2.0 Compliant **PSAA60W Series: Features:** • Efficiency Level V Compliance • Class B EMI • Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant • No Load Power consumption <0.5W **PSAC30U Series: Features:** • Class B EMI • Ecodesign ErP Directive 2009/125/EC **PSC18U Series: Features:** • Class B EMI • Adapter meets CEC and EISA Requirements **PSC30U Series: Features:** • Class B EMI • Adapter meets CEC and EISA Requirements **PSC75U Series: Features:** • Class B EMI • Ecodesign ErP Directive 2009/125/EC • OTC, OVP and OCP **PSM36W Series: Features:** • Ecodesign ErP Directive 2009/125/EC level 2 annex 1b Compliant • Class B EMI • ENERGY STAR EPS 2.0 Compliant **PSA05F Series: Features:** • CC & CV • ErP Directive 2009/125/EC level 2 annex 1b Compliant • 5 start standby power <0.03W • EPS 2.0 (Efficiency Level V) **PSA24A Series: Features:** • No load power consumption <0.3W • Class II Double Insulated • EISA and CEC Compliant • Short-Circuit Protection **PSAA20R Series: Features:** • Efficiency Level V Compliance • Class B EMI • Class II Double Insulated • Level 2 annex 1b Compliant **PSAC05R Series: Features:** • Double Insulated • Efficiency Level V Compliance • Class B EMI **PSAM30R Series: Features:** • Double Insulated • Class B EMI • No load power draw <0.5W @ 115VAC • No load power draw <0.75W @ 230VAC **PSC12R Series: Features:** • Double Insulated • Efficiency Level V Compliance • Class B EMI • No load current <0.3W **USB Adapter: Features:** • Fixed Blade • EPS 2.0 (Efficiency Level V) • 5 Star Standby power <0.03W

Note: *For additional technical information and safety approvals please see Digi-Key website for data sheets*

Fig. 1

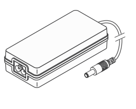

Fig. 2

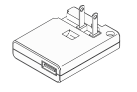

Fig. 3

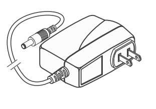

Fig. 4

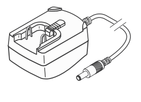

	Ratings					
Fig.	**DC Output Voltage (V)**	**Current Output Max. (A)**	**Regulation (%)**	**Digi-Key Part No.**	**Price Each**	**Phihong Part No.**
PSAA15W Series Desktop — Level IV						
1	5	3.00	±5	993-1001-ND	13.67	PSAA15W-050
	12	1.25	±5	993-1002-ND	13.67	PSAA15W-120
	24	0.63	±5	993-1003-ND	13.67	PSAA15W-240
	48	0.31	±5	993-1004-ND	13.67	PSAA15W-480
PSAA18U Series Desktop — Level V						
1	9	2.00	±5	993-1005-ND	18.28	PSAA18U-090
	12	1.50	±5	993-1006-ND	18.28	PSAA18U-120
	15	1.20	±5	993-1007-ND	18.28	PSAA18U-150
	24	0.75	±5	993-1008-ND	18.28	PSAA18U-240
PSAA60M Series Desktop — Level V						
1	12	5.00	±5	993-1009-ND	33.27	PSAA60M-120
	15	4.00	±5	993-1010-ND	33.27	PSAA60M-150
	18	3.30	±5	993-1011-ND	33.27	PSAA60M-180
	24	2.50	±5	993-1012-ND	33.27	PSAA60M-240
	48	1.25	±5	993-1013-ND	33.27	PSAA60M-480
PSAA60W Series Desktop — Level V						
1	12	5.00	±5	993-1014-ND	33.00	PSAA60W-120
	15	4.00	±5	993-1015-ND	33.11	PSAA60W-150
	18	3.30	±5	993-1016-ND	33.11	PSAA60W-180
	24	2.50	±5	993-1017-ND	33.11	PSAA60W-240
	48	1.25	±5	993-1018-ND	33.11	PSAA60W-480
PSAC30U Series Desktop — Level V						
1	5	4.00	—	993-1019-ND	25.86	PSAC30U-050
	12	2.50	—	993-1020-ND	25.86	PSAC30U 120
	24	1.25	—	993-1021-ND	25.86	PSAC30U-240
	48	0.63	—	993-1022-ND	25.86	PSAC30U-480
	56	0.54	—	993-1023-ND	25.86	PSAC30U-560
PSC18U Series Desktop — Level V						
1	48	0.38	±5	993-1024-ND	15.72	PSC18U-480(P)
PSC30U Series Desktop — Level V						
1	12	2.50	±5	993-1025-ND	31.65	PSC30U-120V
	24	1.25	±5	993-1026-ND	31.65	PSC30U-240V
	48	0.625	±5	993-1027-ND	31.65	PSC30U-480V
PSC75U Series Desktop — Level V						
1	48	1.50	—	993-1028-ND	40.48	PSC75U-480
	56	1.34	—	993-1029-ND	51.89	PSC75U-560
PSM36W Series Desktop — Level V						
1	12	3.00	—	993-1033-ND	22.32	PSM36W-120-TW2
PSA05F F-Series USB 2.0 Wall Mount						
2	5	1.0	±5	993-1068-ND	7.22	PSA05F-050Q
PSM03 USB 2.0 Wall Mount						
2	5	0.55	±5	993-1030-ND	4.01	PSM03A-050Q
	5	0.55	±5	993-1031-ND	4.29	PSM03E-050Q
	5	0.55	±5	993-1032-ND	4.41	PSM03K-050Q
PSA24A Series Wall Mount — Level V						
3	12	2.00	±5	993-1000-ND	17.57	PSA24A-120(P)
PSAA20R R-Series Multi Plug Wall Mount — Level V						
4	3.3	3.00	—	993-1041-ND†	16.76	PSAA20R-033
	5	3.00	—	993-1042-ND†	16.76	PSAA20R-050
	12	1.67	—	993-1043-ND†	16.76	PSAA20R-120
	24	0.83	—	993-1044-ND†	16.76	PSAA20R-240
	48	0.42	—	993-1045-ND†	16.76	PSAA20R-480
PSAC05R R-Series Multi Plug Wall Mount — Level V						
4	5	1.00	—	993-1046-ND†	6.15	PSAC05R-050(MB)
	5	1.00	—	993-1047-ND†	6.02	PSAC05R-050(P)
PSAM30R R-Series Multi Plug Wall Mount						
4	12	2.50	±5	993-1048-ND†	33.13	PSAM30R-120
	24	1.25	±5	993-1049-ND†	33.13	PSAM30R-240
PSC12R R-Series Mulit Plug Wall Mount — Level V						
4	5	2.00	—	993-1050-ND†	14.03	PSC12R-050
	9	1.11	—	993-1051-ND†	14.03	PSC12R-090
	12	1.00	—	993-1052-ND†	14.03	PSC12R-120
Accessories						
Kit for R-Series Clips				993-1053-ND	2.99	RPBAG-R
US Clip for R-Series Wall Adapter				993-1054-ND	.56	RPA
Brazil Clip for R-Series Wall Adapter				993-1055-ND	.77	RPB
China Clip for R-Series Wall Adapter				993-1056-ND	.65	RPC
Europe Clip for R-Series Wall Adapter				993-1057-ND	.67	RPE
Korea Clip for R-Series Wall Adapter				993-1058-ND	.77	RPH
India Clip for R-Series Wall Adapter				993-1059-ND	1.11	RPI
UK Clip for R-Series Wall Adapter				993-1060-ND	1.11	RPK
Argentina Clip for R-Series Wall Adapter				993-1061-ND	1.39	RPN
Australia Clip for R-Series Wall Adapter				993-1062-ND	1.39	RPS
C8 Clip				993-1063-ND	1.38	RPX-03
Kit for F-Series Clips				993-1064-ND	2.99	FP KIT
European Clip for Folding Wall Adapter				993-1065-ND	.83	FPE
UK Clip for Folding Wall Adapter				993-1066-ND	1.11	FPK
Australia Clip for Folding Wall Adapter				993-1067-ND	1.39	FPS

† Interchangeable plugs sold separately

Power Supplies

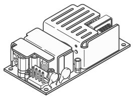

Features:

- 2 x 4 Footprint • Low Profile Design Fits 1U Applications

Hold-up Time:

- 10mS Typical @ maximum load and 115VAC

Operation Temperature: 0°C ~ 50°C

Ratings					
DC Output Voltage (V)	**Current Output Max. (A)**	**Regulation (%)**	**Digi-Key Part No.**	**Price Each**	**Phihong Part No.**
12	5.42	±2	993-1073-ND	25.18	PSA065-120M
24	2.71	±2	993-1074-ND	25.18	PSA065-240M

PoE Power Supplies

Features: • Full Protection OTP, OCP, OVP • Gigabit Compatible • Plug and play technology that converges power and data in an Ethernet cable • Low voltage, Ethernet-powered devices can be relocated without need for AC outlet • PoE Plus product developed with the IEEE802.3 at standard for assured reliablity and compliance • Multiple port options from single port units to 4, 8, 16 and 24 ports avaliable in most power outputs

Fig. 1

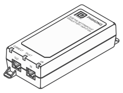

Fig. 2

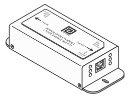

	Ratings					
Fig.	**DC Output Voltage (V)**	**Current Output Max. (A)**	**Regulation (%)**	**Digi-Key Part No.**	**Price Each**	**Phihong Part No.**
PoE Splitter						
1	3.3	3.0	±5	993-1075-ND	27.77	POE14-033
	5	2.2	±5	993-1076-ND	27.77	POE14-050
	12	1.0	±5	993-1077-ND	27.77	POE14-120
	12	1.75	±2	993-1080-ND	31.45	POE21-120
	24	.875	±4	993-1081-ND	31.45	POE21-240
Single Port Injector						
1	56	0.35	4	993-1078-ND	41.95	POE20D-1AF
	56	0.35	±4	993-1079-ND	31.45	POE20U-560(G)
	48	0.35	±4	993-1097-ND	20.83	PSA16U-480(POE)
High Power/Temp Single Port Injector						
1	56	0.55	4	993-1082-ND	52.43	POE30U-560GHT
	56	0.60	4	993-1087-ND	41.95	POE36D-1AT
	56	0.60	4	993-1088-ND	41.95	POE36U-1AT
	56	0.55	4	993-1091-ND	65.49	POE60U-560G
	56	1.34	4	993-1094-ND	81.86	POE75D-1UP
	56	0.69	4	993-1095-ND	81.86	POE75U-1UP
	56	0.72	4	993-1096-ND	102.88	POE80U-560G
30W Passive PoE						
1	24	1.25	—	993-1083-ND	26.20	POE31U-240
	56	0.54	—	993-1084-ND	26.20	POE31U-560
	24	1.25	—	993-1085-ND	26.20	POE31W-240
	56	0.54	—	993-1086-ND	26.20	POE31W-560
	56	1.1	—	993-1092-ND	44.96	POE61U-560DG
	56	1.1	—	993-1093-ND	44.96	POE61W-560DG
Gigabit IEEE802.3at Splitter						
1	12	3.75	±2	993-1089-ND	52.45	POE45-120
	50 ~ 57	1.1	—	993-1090-ND	26.24	POE60D-560G
Single Power PoE Gigabit Switch						
2	56	350mA	—	993-1098-ND	204.75	POE16S-1AFG

Cables

Fig. 1

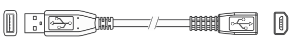

Fig. 2

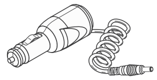

Fig. 3

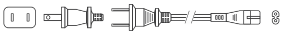

Fig. 4

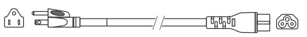

Fig. 5

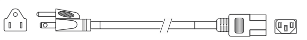

Fig.	Description	Digi-Key Part No.	Price Each	Phihong Part No.
1	USBA to Mini-USB Cable	993-1069-ND	4.15	IPUSB1CS
	USBA to Micro-USB Cable	993-1070-ND	5.20	IPUSB1MS
2	Charger, 5W, Automobile Adapter	993-1071-ND	10.20	CLA05D-050A
	Charger, 11W, Automobile Adapter	993-1072-ND	13.91	CLM10D-050(A)
3	Line Cords Europe, 2 Wire	993-1034-ND	2.03	AC15WEU
	Line Cords US, 2 Wire	993-1035-ND	1.68	AC15WNA
	Line Cords UK, 2 Wire	993-1036-ND	4.78	AC15WUK
4	Line Cords US Mickey Mouse, 3 Wire	993-1037-ND	3.21	AC30MNA
5	Line Cords Europe, 3 Wire	993-1038-ND	6.38	AC30UEU
	Line Cords US, 3 Wire	993-1039-ND	2.79	AC30UNA
	Line Cords UK, 3 Wire	993-1040-ND	11.75	AC30UUK

International Components Corporation™

Elpac Power Systems

7-250 Watt Medically Approved AC/DC Power Supplies

Features: • Wide range AC input • Fully regulated output • Worldwide medical agency approval (UL60601-1, CE marked to EN60601-1-2:2001) • High efficiency • Five Year Limited Warranty

Fig. 1

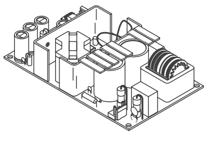

Fig. 2

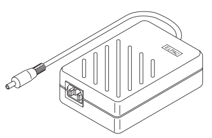

Fig. 3 ***NEW!***

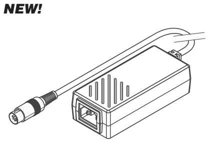

5-pin DIN

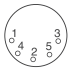

Pin Output

Series	AC Input	DC Outputs Single	Mating Connectors		Housing Output	Contacts	Dimensions - Inch L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
			Max. Watts	Housing Input					1	5	10	
Fig. 1 — Internal — Single Output												
MSA150	100 ~ 240VAC, 47 ~ 63Hz	12V @ 12.5A	150	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS441-ND◆	89.60	82.64	71.19	MSA150012A
MSA150	100 ~ 240VAC, 47 ~ 63Hz	15V @ 10A	150	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS442-ND◆	88.40	81.53	70.23	MSA150015A
MSA150	100 ~ 240VAC, 47 ~ 63Hz	18V @ 8.3A	150	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS443-ND◆	88.24	81.38	70.10	MSA150018A
MSA150	100 ~ 240VAC, 47 ~ 63Hz	24V @ 6.3A	150	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS444-ND◆	89.73	82.76	71.29	MSA150024A
MSM07	100 ~ 240VAC, 50 ~ 60Hz	5.1V @ 1.4A	7	WM18874	WM18873	WM17406	2.28 x 2.00 x 0.713	EPS342-ND	23.33	21.52	18.54	MSM0705
MSM07	100 ~ 240VAC, 50 ~ 60Hz	12V @ 0.6A	7	WM18874	WM18873	WM17406	2.28 x 2.00 x 0.713	EPS343-ND	22.75	20.99	18.08	MSM0712
MSM28	100 ~ 240VAC, 50 ~ 60Hz	12V @ 2.3A	28	A19953	A19952	A19993CT	4.00 x 2.60 x 1.3	EPS311-ND	28.84	26.60	22.91	MSM2812
MSM28	100 ~ 240VAC, 50 ~ 60Hz	24V @ 1.2A	28	A19953	A19952	A19993CT	4.00 x 2.60 x 1.3	EPS313-ND	27.72	25.57	22.03	MSM2824
MS40F	85 ~ 264VAC, 47 ~ 63Hz	12V @ 3.3A	40	A19951	A19954	A19993CT	5.00 x 3.00 x 1.06	EPS365-ND◆	38.88	35.86	30.89	MS4012F
MS40F	85 ~ 264VAC, 47 ~ 63Hz	18V @ 2.2A	40	A19951	A19954	A19993CT	5.00 x 3.00 x 1.06	EPS367-ND◆	38.97	35.94	30.96	MS4018F
MS65F	85 ~ 264VAC, 50 ~ 60Hz	15V @ 4.3A	65	A19951	A19954	A19993CT	5.00 x 3.00 x 1.10	EPS370-ND◆	60.48	55.78	48.05	MS6515F
MS65F	85 ~ 264VAC, 50 ~ 60Hz	24V @ 2.7A	65	A19951	A19954	A19993CT	5.00 x 3.00 x 1.10	EPS371-ND◆	59.13	54.54	46.98	MS6524F
MSMP115F	85 ~ 264VAC, 47 ~ 63Hz	24V @ 4.8A	115	A19953	A19956	A31398CT	5.25 x 3.30 x 1.50	EPS395-ND◆	124.43	114.76	98.86	MSMP11524F
MTA40	85 ~ 264VAC, 47 ~ 63Hz	9V @ 4.4A	40	A19951	A19954	A31398CT	4.00 x 2.00 x 1.083	EPS412-ND◆	34.07	31.43	27.07	MTA040009A
MTA40	85 ~ 264VAC, 47 ~ 63Hz	12V @ 3.3A	40	A19951	A19954	A31398CT	4.00 x 2.00 x 1.083	EPS413-ND◆	34.27	31.61	27.23	MTA040012A
MTA40	85 ~ 264VAC, 47 ~ 63Hz	15V @ 2.7A	40	A19951	A19954	A31398CT	4.00 x 2.00 x 1.083	EPS414-ND◆	33.39	30.80	26.53	MTA040015A
MTA40	85 ~ 264VAC, 47 ~ 63Hz	24V @ 1.67A	40	A19951	A19954	A31398CT	4.00 x 2.00 x 1.083	EPS415-ND◆	32.83	30.28	26.09	MTA040024A
MVA100	100 ~ 240VAC, 50 ~ 60Hz	12V @ 8.3A	100	A19951	A19954	A31398CT	4.50 x 2.50 x 1.10	EPS420-ND◆	64.17	59.18	50.98	MVA100012A
MVA100	100 ~ 240VAC, 50 ~ 60Hz	15V @ 6.7A	100	A19951	A19954	A31398CT	4.50 x 2.50 x 1.10	EPS421-ND◆	63.85	58.88	50.73	MVA100015A
MVA100	100 ~ 240VAC, 50 ~ 60Hz	18V @ 5.6A	100	A19951	A19954	A31398CT	4.50 x 2.50 x 1.10	EPS422-ND◆	63.76	58.80	50.66	MVA100018A
MVA100	100 ~ 240VAC, 50 ~ 60Hz	24V @ 4.2A	100	A19951	A19954	A31398CT	4.50 x 2.50 x 1.10	EPS423-ND◆	63.40	58.47	50.37	MVA100024A
Fig. 1 — Multiple Output												
MSM40	85 ~ 264VAC, 47 ~ 63Hz	5.1V @ 4A, 12V @ 2A, -12V @ 0.4A	40	A19951	A19954	A31398CT	5.00 x 3.00 x 1.38	EPS339-ND	51.77	47.75	41.13	MSM40A
Fig. 2 — External (requires power cord Q132 or Q133)												
MW12	100 ~ 240VAC, 50 ~ 60Hz	12V @ 1.0A	12	—	—	—	3.35 x 1.97 x 1.30	EPS323-ND	28.89	26.65	22.96	MW1212-760-NC-WH
MW12	100 ~ 240VAC, 50 ~ 60Hz	12V @ 1.0A	12	—	—	—	3.35 x 1.97 x 1.30	EPS407-ND	28.89	26.65	22.96	MW1212-760-NC-BK
MW12	100 ~ 240VAC, 50 ~ 60Hz	24V @ 0.5A	12	—	—	—	3.35 x 1.97 x 1.30	EPS324-ND	28.37	26.17	22.54	MW1224-760-NC-WH
MW24	100 ~ 240VAC, 47 ~ 63Hz	12V @ 2.0A	24	—	—	—	4.25 x 2.50 x 1.30	EPS325-ND	36.50	32.85	30.30	MW2412-760-NC-WH
MW24	100 ~ 240VAC, 47 ~ 63Hz	15V @ 1.6A	24	—	—	—	4.25 x 2.50 x 1.30	EPS326-ND	32.92	30.37	26.16	MW2415-760-NC-WH
MW24	100 ~ 240VAC, 47 ~ 63Hz	15V @ 1.6A	24	—	—	—	4.25 x 2.50 x 1.30	EPS408-ND	32.80	30.25	26.06	MW2415-760-NC-BK
MW24	100 ~ 240VAC, 47 ~ 63Hz	18V @ 1.33A	24	—	—	—	4.25 x 2.50 x 1.30	EPS327-ND	31.97	29.49	25.40	MW2418-760-NC-WH
MW24	100 ~ 240VAC, 47 ~ 63Hz	24V @ 1.0A	24	—	—	—	4.25 x 2.50 x 1.30	EPS328-ND	31.81	29.34	25.27	MW2424-760-NC-WH
MW40F	100 ~ 240VAC, 47 ~ 63Hz	12V @ 3.3A	40	—	—	—	5.00 x 3.00 x 1.30	EPS360-ND◆	49.64	45.79	39.44	MW4012-760F-NC-WH
MW40F	100 ~ 240VAC, 47 ~ 63Hz	12V @ 3.3A	40	—	—	—	5.00 x 3.00 x 1.30	EPS409-ND◆	45.16	41.65	35.88	MW4012-760F-NC-BK
MW40F	100 ~ 240VAC, 47 ~ 63Hz	15V @ 2.7A	40	—	—	—	5.00 x 3.00 x 1.30	EPS361-ND◆	48.64	44.86	38.64	MW4015-760F-NC-WH
MW40F	100 ~ 240VAC, 47 ~ 63Hz	15V @ 2.7A	40	—	—	—	5.00 x 3.00 x 1.30	EPS410-ND◆	48.64	44.86	38.64	MW4015-760F-NC-BK
MW40F	100 ~ 240VAC, 47 ~ 63Hz	18V @ 2.2A	40	—	—	—	5.00 x 3.00 x 1.30	EPS362-ND◆	45.23	41.72	35.94	MW4018-760F-NC-WH
MW40F	100 ~ 240VAC, 47 ~ 63Hz	24V @ 1.67A	40	—	—	—	5.00 x 3.00 x 1.30	EPS363-ND◆	46.93	43.28	37.28	MW4024-760F-NC-WH
MW40F	100 ~ 240VAC, 47 ~ 63Hz	24V @ 1.67A	40	—	—	—	5.00 x 3.00 x 1.30	EPS411-ND◆	46.93	43.28	37.28	MW4024-760F-NC-BK
MWP90	90 ~ 264VAC, 47 ~ 63Hz	24V @ 3.75A	90	—	—	—	5.90 x 3.33 x 1.50	EPS353-ND	86.24	79.53	68.52	MWP9024-D8-NC-BK
MWA100	100 ~ 240VAC, 50 ~ 60Hz	12V @ 8.3A	100	—	—	—	5.19 x 3.07 x 1.34	EPS424-ND◆	77.92	71.87	61.91	MWA100012A-12A
MWA100	100 ~ 240VAC, 50 ~ 60Hz	15V @ 6.7A	100	—	—	—	5.19 x 3.07 x 1.34	EPS425-ND◆	78.84	72.71	62.64	MWA100015A-12A
MWA100	100 ~ 240VAC, 50 ~ 60Hz	18V @ 5.6A	100	—	—	—	5.19 x 3.07 x 1.34	EPS426-ND◆	78.77	72.65	62.58	MWA100018A-12A
MWA100	100 ~ 240VAC, 50 ~ 60Hz	24V @ 4.2A	100	—	—	—	5.19 x 3.07 x 1.34	EPS427-ND◆	79.29	73.13	63.00	MWA100024A-12A
MWA150	100 ~ 240VAC, 47 ~ 63Hz	12V @ 12.5A	150	—	—	—	7.56 x 2.45 x 1.52	EPS437-ND◆	109.24	100.75	86.79	MWA150012A-12A
MWA150	100 ~ 240VAC, 47 ~ 63Hz	15V @ 10A	150	—	—	—	7.56 x 2.45 x 1.52	EPS438-ND◆	108.09	99.69	85.88	MWA150015A-12A
MWA150	100 ~ 240VAC, 47 ~ 63Hz	18V @ 8.3A	150	—	—	—	7.56 x 2.45 x 1.52	EPS439-ND◆	110.29	101.71	87.62	MWA150018A-12A
MWA150	100 ~ 240VAC, 47 ~ 63Hz	24V @ 6.3A	150	—	—	—	7.56 x 2.45 x 1.52	EPS440-ND◆	111.83	103.14	88.85	MWA150024A-12A
MWB100	100 ~ 240VAC, 50 ~ 60Hz	12V @ 8.3A	100	—	—	—	5.19 x 3.07 x 1.34	EPS428-ND◆	77.83	71.78	61.84	MWB100012A-12A
MWB100	100 ~ 240VAC, 50 ~ 60Hz	15V @ 6.7A	100	—	—	—	5.19 x 3.07 x 1.34	EPS429-ND◆	78.88	72.75	62.67	MWB100015A-12A
MWB100	100 ~ 240VAC, 50 ~ 60Hz	18V @ 5.6A	100	—	—	—	5.19 x 3.07 x 1.34	EPS430-ND◆	78.77	72.65	62.58	MWB100018A-12A
MWB100	100 ~ 240VAC, 50 ~ 60Hz	24V @ 4.2A	100	—	—	—	5.19 x 3.07 x 1.34	EPS431-ND◆	79.29	73.13	63.00	MWB100024A-12A
MWC100	100 ~ 240VAC, 47 ~ 63Hz	12V @ 8.3A	100	—	—	—	7.09 x 2.27 x 1.52	EPS432-ND◆	88.36	81.49	70.20	MWC100012A-12A
MWC100	100 ~ 240VAC, 47 ~ 63Hz	18V @ 5.5A	100	—	—	—	7.09 x 2.27 x 1.52	EPS434-ND◆	90.76	83.70	72.11	MWC100018A-11A
MWC100	100 ~ 240VAC, 47 ~ 63Hz	24V @ 4.1A	100	—	—	—	7.09 x 2.27 x 1.52	EPS436-ND◆	87.16	80.38	69.25	MWC100024A-11A
NEW! Fig. 3 — External — RoHS Compliant NEW!												
MWA065	100 ~ 240VAC	9V @ 8A	65	—	—	—	5.02 x 2.20 x 1.37	EPS462-ND	60.19	55.51	47.82	MWA065009A-11A
MWA065	100 ~ 240VAC	12V @ 6A	65	—	—	—	5.02 x 2.20 x 1.37	EPS463-ND	59.36	54.75	47.17	MWA065012A-11A
MWA065	100 ~ 240VAC	15V @ 4.8A	65	—	—	—	5.02 x 2.20 x 1.37	EPS464-ND	59.08	54.49	46.94	MWA065015A-11A
MWA065	100 ~ 240VAC	24V @ 3A	65	—	—	—	5.02 x 2.20 x 1.37	EPS465-ND	62.28	57.44	49.48	MWA065024A-11A

◆ ***RoHS Compliant***

International Components Corporation™

Industrial Power Supplies

Elpac Power Systems

RoHS COMPLIANT

FSA Series: **Features:** • High Efficiency • Up to 180W with Forced Air • High Power Density 9.8W/in³ • Five Year Limited Warranty • Hold-Up Time > 25ms at Full Load • Energy Star Level V • EISA Compliant

FXA Series: **Features:** • Wide Range AC Input • Power Factor Correction • +5V Standby and Fan Power • Fully Regulated DC Output • High Efficiency • Energy Star Level V • EISA Compliant • Grounded Output • ITE and Medical Grade Approval • Five Year Limited Warranty

FW Series: **Features:** • Wide Range AC Input • Fully Regulated Output • Fully Enclosed Plastic Case • High Efficiency • Operating Temperature: 0°C ~ 40°C • Storage Temperature: -55°C ~ 85°C • Five Year Limited Warranty

Safety: • CE Marked • For additional safety ratings and certifications, please see data sheets.

FWC Series: **Features:** • High Efficiency • Fully Regulated DC Output • Five Year Limited Warranty • Energy Star Level V • CE Marked • Safety Approval - EN60950-1 Class I

FWB Series: **Features:** • High Efficiency • High Power Density 4.2W/in³ • Hold-Up Time > 48ms at full load • Five Year Limited Warranty • Power Factor Correction • Energy Star Level V • EISA Compliant

FWA Series: **Features:** • High Efficiency • High Power Density • Hold-Up Time > 25ms at full load • Five Year Limited Warranty • EISA Compliant

Fig. 1

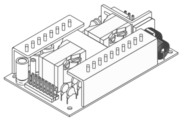

Fig. 2 ***NEW!***

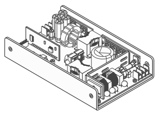

Fig. 3

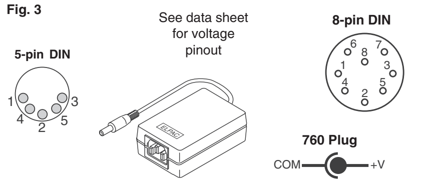

Fig. 4 ***NEW!***

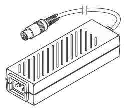

Fig. 5 ***NEW!***

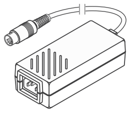

Fig.	DC Outputs Single	Max. Power	Housing Input	Housing Output	Contacts	Dimensions - Inch L x W x H	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
FSA150 Series — CEC Compliant											
1	12V @ 12.5A	150W	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS445-ND	89.08	82.16	70.78	FSA150012A
	15V @ 10A	150W	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS446-ND	87.91	81.08	69.85	FSA150015A
	18V @ 8.3A	150W	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS447-ND	87.71	80.90	69.69	FSA150018A
	24V @ 6.3A	150W	A19951	A19954	A31398CT	5.00 x 3.00 x 1.22	EPS448-ND	89.21	82.27	70.88	FSA150024A
NEW! FXA350 Series — CEC Compliant NEW!											
2	12V @ 20A	350W	—	—	—	8.00 x 5.00 x 1.50	EPS453-ND	210.87	194.47	167.53	FXA350012A
	15V @ 16.5A	350W	—	—	—	8.00 x 5.00 x 1.50	EPS454-ND	210.73	194.34	167.41	FXA350015A
	24V @ 10.5A	350W	—	—	—	8.00 x 5.00 x 1.50	EPS455-ND	217.31	200.42	172.65	FXA350024A
	28V @ 9A	350W	—	—	—	8.00 x 5.00 x 1.50	EPS456-ND	217.28	200.38	172.62	FXA350028A
	48V @ 5.3A	350W	—	—	—	8.00 x 5.00 x 1.50	EPS457-ND	200.48	184.89	159.28	FXA350048A
FW18 Series											
3	5V @ 3A	15W	—	—	—	3.35 x 1.97 x 1.30	EPS332-ND	30.76	28.37	24.44	FW1805-760F
	12V @ 1.5A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS333-ND	29.59	27.29	23.51	FW1812-760F
	24V @ 0.75A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS334-ND	30.56	28.19	24.29	FW1824-760F
FW30 Series											
3	12V @ 2.5A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS355-ND	40.25	37.12	31.98	FW3012-760F
	15V @ 2.0A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS356-ND	42.64	39.33	33.88	FW3015-760F
	24V @ 1.25A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS357-ND	43.88	40.47	34.87	FW3024-760F
FW50 Series											
3	12V @ 4.15A	50W	—	—	—	5.00 x 3.00 x 1.30	EPS358-ND	47.43	43.75	37.69	FW5012-760F
	24V @ 2.10A	50W	—	—	—	5.00 x 3.00 x 1.30	EPS359-ND	48.04	44.31	38.17	FW5024-760F
FW72 Series											
3	12V @ 6.0A	72W	—	—	—	6.50 x 3.85 x 2.60	EPS337-ND	55.64	51.31	44.21	FW7212-D5F
FWC18F Series — CEC Compliant											
3	5V @ 3.60A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS372-ND	30.69	28.31	24.39	FWC1805-760F
	12V @ 1.50A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS373-ND	29.39	27.11	23.36	FWC1812-760F
	18V @ 1.00A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS374-ND	30.04	27.71	23.87	FWC1818-760F
	24V @ 0.80A	18W	—	—	—	3.35 x 1.97 x 1.30	EPS375-ND	30.56	28.19	24.29	FWC1824-760F
FWC30F Series — CEC Compliant											
3	9V @ 3.3A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS376-ND	41.56	38.33	33.02	FWC3009-760F
	12V @ 2.5A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS377-ND	40.23	37.11	31.97	FWC3012-760F
	15V @ 2.0A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS378-ND	42.19	38.91	33.52	FWC3015-760F
	24V @ 1.3A	30W	—	—	—	4.25 x 2.50 x 1.30	EPS380-ND	43.49	40.11	34.55	FWC3024-760F
FWC50F Series — CEC Compliant											
3	12V @ 4.2A	50W	—	—	—	5.00 x 3.00 x 1.30	EPS381-ND	47.72	44.01	37.91	FWC5012-760F
	18V @ 2.8A	50W	—	—	—	5.00 x 3.00 x 1.30	EPS382-ND	50.40	46.48	40.04	FWC5018-760F
	24V @ 2.10A	50W	—	—	—	5.00 x 3.00 x 1.30	EPS383-ND	48.40	44.64	38.46	FWC5024-760F
FWB100 Series — CEC Compliant											
3	12V @ 8.3A	100W	—	—	—	7.09 x 2.27 x 1.52	EPS384-ND	106.69	98.39	84.76	FWB100012A-12B
	18V @ 5.5A	100W	—	—	—	7.09 x 2.27 x 1.52	EPS435-ND	93.67	86.39	74.42	FWB100018A-11B
	24V @ 4.1A	100W	—	—	—	7.09 x 2.27 x 1.52	EPS385-ND	90.07	83.07	71.56	FWB100024A-11A
NEW! FWA150 Series — CEC Compliant NEW!											
4	12V @ 12.5A	150W	—	—	—	7.56 x 2.45 x 1.52	EPS449-ND	109.21	100.72	86.76	FWA150012A-12B
	15V @ 10A	150W	—	—	—	7.56 x 2.45 x 1.52	EPS450-ND	111.31	102.66	88.44	FWA150015A-12B
	18V @ 8.3A	150W	—	—	—	7.56 x 2.45 x 1.52	EPS451-ND	113.67	104.83	90.31	FWA150018A-12B
	24V @6.3A	150W	—	—	—	7.56 x 2.45 x 1.52	EPS452-ND	115.20	106.24	91.52	FWA150024A-12B
NEW! FWA065 Series — CEC Compliant NEW!											
5	9V @ 8A	65W	—	—	—	5.02 x 2.20 x 1.37	EPS458-ND	60.55	55.85	48.11	FWA065009A-11B
	12V @ 6A	65W	—	—	—	5.02 x 2.20 x 1.37	EPS459-ND	59.99	55.33	47.67	FWA065012A-11B
	15V @ 4.8A	65W	—	—	—	5.02 x 2.20 x 1.37	EPS460-ND	58.91	54.34	46.81	FWA065015A-11B
	24V @ 3A	65W	—	—	—	5.02 x 2.20 x 1.37	EPS461-ND	62.12	57.29	49.35	FWA065024A-11B

Fig. 1

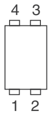

Fig. 2

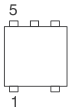

Fig. 3 ***NEW!***

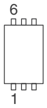

Fig. 4

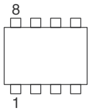

Fig. 5

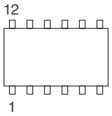

Fig. 6

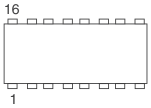

Photo Transistor Output Optoisolators

Fig.	Isolation Voltage	CTR (%)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing
1	5000	50 ~ 400	70	DIP	PS2501A-1-A-ND	.47	.40	.30	—	—
	5000	80 ~ 600	80	DIP	PS2501-1A-ND	.52	.44	.33	—	—
	5000	80 ~ 160	80	DIP	PS2501-1-H-A-ND	.52	.44	.33	—	—
	5000	200 ~ 400	80	DIP	PS2501-1-L-A-ND	.52	.44	.33	—	—
	5000	50 ~ 400	70	SMT	PS2501AL-1-ND	.57	.49	.37	—	—
	5000	80 ~ 160	80	SMT	PS2501L-1-H-A-ND	.70	.59	.45	—	—
	5000	80 ~ 600	80	SMT	PS2501L-1A-ND	.70	.59	.45	—	—
	5000	80 ~ 600	80	SMT	PS2501L-1-Q-A-ND✔	.70	.59	.45	—	—
	5000	80 ~ 600	80	SMT	PS2501L-1-F3-L-ACT-ND§✔	.70	.56	.42	2,000	197.00/M
	5000	200 ~ 2000	40	DIP	PS2502-1A-ND	.89	.79	.61	—	—
	5000	100 ~ 400	40	DIP	PS2503-1-A-ND	.99	.88	.70	—	—
	5000	100 ~ 400	40	SMT	PS2503L-1A-ND	1.05	.93	.74	—	—
	5000	80 ~ 600	80	DIP	PS2505-1A-ND	.62	.52	.39	—	—
	5000	80 ~ 600	80	SMT	PS2505L-1A-ND	.76	.67	.52	—	—
	5000	200 ~ 2000	40	DIP	PS2506-1A-ND	1.05	.93	.74	—	—
	5000	50 ~ 200	120	DIP	PS2513-1-A-ND	.88	.77	.60	—	—
	5000	20 ~ 80	80	DIP	PS2521-1-A-ND	1.16	1.03	.82	—	—
	5000	20 ~ 80	80	SMT	PS2521L-1CT-ND§	1.20	1.00	.85	—	—
	5000	20 ~ 80	80	SMT	PS2521L-1-F3-ACT-ND§✔	1.32	1.18	.94	2,000	489.00/M
	5000	20 ~ 80	80	DIP	PS2525-1-A-ND	1.39	1.24	.98	—	—
	5000	400 ~ 5500	350	SMT	PS2535L-1-F3-ACT-ND§✔	1.08	.97	.77	2,000	466.00/M
	5000	50 ~ 400	70	DIP	PS2561A-1-A-ND	.43	.36	.27	—	—
	5000	80 ~ 400	80	DIP	PS2561-1A-ND	.59	.50	.38	—	—
	5000	80 ~ 400	80	DIP	PS2561-1-VA-ND‡	.64	.54	.41	—	—
	5000	50 ~ 400	70	SMT	PS2561AL-1CT-ND§	.55	.44	.33	2,000	155.00/M
	5000	80 ~ 160	70	SMT	PS2561AL-1-H-A-ND	.48	.41	.31	—	—
	5000	50 ~ 400	70	Wide DIP	PS2561AL1-1-L-A-ND✔	.48	.41	.31	—	—
	5000	50 ~ 400	70	SMT	PS2561AL2-1-H-A-ND✔	.48	.41	.31	—	—
	5000	50 ~ 400	70	SMT	PS2561AL2-1-E3-H-ACT-ND§✔	.55	.44	.33	1,000	170.00
	5000	50 ~ 400	70	SMT	PS2561AL2-1-V-E3-L-ACT-ND§✔	.61	.49	.37	1,000	187.00
	5000	50 ~ 400	80	DIP	PS2561B-1-A-ND	.77	.68	.52	—	—
	5000	100 ~ 400	80	SMT	PS2561BL2-1-V-Q-A-ND✔	.90	.80	.62	—	—
	5000	100 ~ 400	80	SMT	PS2561BL2-1-V-E3-Q-ACT-ND§✔	.91	.79	.62	1,000	330.00
	5000	80 ~ 160	80	SMT	PS2561L-1-H-A-ND	.62	.54	.42	—	—
	5000	80 ~ 400	80	SMT	PS2561L-1A-ND	.62	.54	.42	—	—
	5000	80 ~ 400	80	SMT	PS2561L-1-VA-ND‡	.66	.58	.45	—	—
	5000	80 ~ 400	80	DIP	PS2561L1-1-VA-ND*‡	.66	.58	.45	—	—
	5000	80 ~ 400	80	SMT	PS2561L2-1-V-A-ND‡	.67	.59	.46	—	—
	5000	200 ~ 2000	40	DIP	PS2562-1-A-ND	1.27	1.13	.89	—	—
	5000	200 ~ 2000	40	DIP	PS2562-1-L-A-ND✔	1.27	1.13	.89	—	—
	5000	200 ~ 2000	40	SMT	PS2562L-1-ND	.92	.82	.65	—	—
	5000	80 ~ 400	80	DIP	PS2565-1-VA-ND‡	.77	.68	.52	—	—
	5000	80 ~ 400	80	DIP	PS2565-1A-ND	.73	.64	.50	—	—
	5000	80 ~ 400	80	SMT	PS2565L-1A-ND	.79	.70	.54	—	—
	5000	80 ~ 400	80	SMT	PS2565L-1-VA-ND‡	.80	.70	.54	—	—
	5000	80 ~ 160	80	DIP	PS2581L1-H-A-ND	.60	.53	.41	—	—
	3750	150 ~ 300	40	SOP	PS2701-1-P-A-ND	.76	.67	.52	—	—
	3750	50 ~ 300	40	SOP	PS2701-1A-ND	.76	.67	.52	—	—
	3750	50 ~ 300	40	SOP	PS2701-1ATR-ND	—	—	—	3,500	211.00/M
	3750	150 ~ 300	70	SOP	PS2701A-1-P-A-ND	.72	.63	.49	—	—
	3750	50 ~ 300	70	SOP	PS2701A-1-ND	.72	.63	.49	—	—
	3750	200 ~ 2000	40	SOP	PS2702-1A-ND	1.28	1.14	.90	—	—
	3750	200 ~ 2000	40	SOP	PS2702-1ATR-ND	—	—	—	3,500	341.00/M
	3750	50 ~ 150	120	SOP	PS2703-1-M-A-ND	.92	.81	.63	—	—
	3750	200 ~ 400	120	SOP	PS2703-1-K-A-ND	.92	.81	.63	—	—
	3750	50 ~ 400	120	SOP	PS2703-1A-ND	.92	.81	.63	—	—
	3750	50 ~ 400	120	SOP	PS2703-1ATR-ND	—	—	—	3,500	218.00/M
	3750	50 ~ 300	40	SOP	PS2705-1A-ND	.93	.82	.63	—	—
	3750	50 ~ 300	40	SOP	PS2705-1ATR-ND	—	—	—	3,500	334.00/M
	3750	50 ~ 300	70	SOP	PS2705A-1-ND	.80	.70	.54	—	—
	3750	50 ~ 300	70	SOP	PS2705A-1TR-ND	—	—	—	3,500	202.00/M
	3750	200 ~ 2000	40	SOP	PS2706-1-ND	1.55	1.38	1.09	—	—
	3750	100 ~ 200	40	SOP	PS2711-1-M-A-ND	.98	.86	.66	—	—
	3750	50 ~ 400	70	SOP	PS2761B-1-A-ND✔	1.17	1.04	.82	—	—
	3750	50 ~ 400	70	SOP	PS2761B-1-V-F3-K-ACT-ND§✔	.95	.85	.68	3,500	350.00/M
	3750	50 ~ 400	40	SOP	PS2765-1A-ND	.89	.75	.63	—	—
	3750	50 ~ 300	70	SSOP	PS2861B-1Y-A-ND✔	.95	.84	.67	—	—
	2500	1500 ~ 4000	350	SOP	PS2733-1A-ND	1.86	1.68	1.35	—	—
	2500	1500 ~ 4000	350	SOP	PS2733-1ATR-ND	—	—	—	3,500	608.00/M
	2500	100 ~ 300	80	SOP	PS2801-1-L-A-ND	.95	.85	.67	—	—
	2500	80 ~ 600	80	SSOP	PS2801-1ACT-ND§	.75	.65	.51	3,500	268.00/M
	2500	50 ~ 400	70	SSOP	PS2801A-1-ND	.97	.87	.69	—	—
	2500	50 ~ 400	70	SSOP	PS2801A-1TR-ND	—	—	—	3,500	255.00/M
	2500	50 ~ 400	80	SSOP	PS2801C-1-A-ND	.74	.65	.50	—	—
	2500	50 ~ 400	80	SSOP	PS2801C-1-F3-ACT-ND§	.73	.63	.50	3,500	239.00/M
	2500	50 ~ 400	80	SSOP	PS2801C-1-V-A-ND✔	.78	.69	.53	—	—
	2500	200 ~ 2000	40	SSOP	PS2802-1ACT-ND§	1.25	1.13	.90	3,500	462.00/M
	2500	80 ~ 600	80	SSOP	PS2805-1ACT-ND§	1.06	.92	.73	3,500	374.00/M
	2500	50 ~ 400	70	SSOP	PS2805A-1-ND	1.08	.96	.76	—	—
	2500	50 ~ 400	70	SSOP	PS2805A-1TR-ND	—	—	—	3,500	310.00/M
	2500	50 ~ 400	80	SSOP	PS2805C-1-F3-ACT-ND§	.88	.77	.61	3,500	291.00/M
	2500	200 ~ 2000	40	SOP	PS2806-1ACT-ND§	1.57	1.41	1.12	3,500	577.00/M
	2500	100 ~ 400	40	SSOP	PS2811-1ACT-ND§	.96	.84	.66	3,500	318.00/M
	2500	400 ~ 4500	350	SSOP	PS2833-1A-ND	1.89	1.71	1.38	—	—
	2500	400 ~ 4500	350	SSOP	PS2833-1ATR-ND	—	—	—	3,500	795.00/M
	2500	50 ~ 400	40	SSOP	PS2865-1A-ND	.95	.80	.67	—	—

Fig.	Isolation Voltage	CTR (%)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing
1	2500	100 ~ 400	40	Mini-Flat	PS2911-1ACT-ND§	1.37	1.23	.98	3,500	504.00/M
	2500	100 ~ 400	40	Mini-Flat	PS2911-1-K-A-ND	1.33	1.18	.94	—	—
	2500	100 ~ 200	40	Mini-Flat	PS2911-1-M-A-ND	1.33	1.18	.94	—	—
	2500	50 ~ 100	120	Mini-Flat	PS2913-1-ND	1.54	1.37	1.08	—	—
	2500	50 ~ 100	120	Mini-Flat	PS2913-1TR-ND	—	—	—	3,500	617.00/M
	2500	100 ~ 400	40	Mini-Flat	PS2915-1ACT-ND§	1.67	1.50	1.19	3,500	684.00/M
	2500	400 ~ 4500	350	Mini-Flat	PS2933-1-ND	2.05	1.85	1.49	—	—
	2500	400 ~ 4500	350	Mini-Flat	PS2933-1TR-ND	—	—	—	3,500	891.00/M
4	5000	100 ~ 400	40	DIP	PS2503-2-A-ND	1.87	1.56	1.32	—	—
	5000	80 ~ 600	80	DIP	PS2505-2A-ND	1.40	1.17	.99	—	—
5	2000	100 ~ 600	70	SSOP	PS2841-4A-ND	3.89	3.48	2.85	—	—
	2000	100 ~ 600	70	SSOP	PS2841-4B-ND	4.00	3.58	2.94	—	—
	2000	100 ~ 600	70	SSOP	PS2841-4BTR-ND	—	—	—	2,500	1875.00/M
	2000	100 ~ 600	70	SSOP	PS2845-4AA-ND	5.12	4.58	3.76	—	—
6	5000	80 ~ 600	80	DIP	PS2501-4A-ND	1.84	1.67	1.34	—	—
	5000	80 ~ 600	80	SMT	PS2501L-4A-ND	1.90	1.72	1.38	—	—
	5000	200 ~ 2000	40	DIP	PS2502-4A-ND	3.08	2.78	2.24	—	—
	5000	80 ~ 600	80	DIP	PS2505-4A-ND	2.23	2.02	1.62	—	—
	5000	80 ~ 600	80	SMT	PS2505L-4A-ND	2.25	2.04	1.64	—	—
	2500	80 ~ 600	80	SSOP	PS2801-4A-ND	3.89	3.48	2.85	—	—
	2500	80 ~ 600	80	SSOP	PS2801-4ATR-ND	—	—	—	2,500	1446.00/M
	2500	50 ~ 400	80	SSOP	PS2801C-4-A-ND	2.17	1.96	1.58	—	—
	2500	50 ~ 400	80	SSOP	PS2801C-4-F3-ACT-ND§	2.38	2.04	1.67	2,500	918.00/M
	2500	200 ~ 2000	40	SSOP	PS2802-4A-ND	3.53	3.15	2.59	—	—
	2500	200 ~ 2000	40	SSOP	PS2802-4ATR-ND	—	—	—	2,500	1330.00/M
	2500	80 ~ 600	80	SSOP	PS2805-4A-ND	6.53	5.84	4.79	—	—
	2500	50 ~ 400	70	SSOP	PS2805A-4-A-ND	3.45	3.08	2.53	—	—
	2500	200 ~ 2000	40	SSOP	PS2806-4A-ND	5.60	5.00	4.10	—	—
	2500	200 ~ 2000	40	SSOP	PS2806-4ATR-ND	—	—	—	2,500	2421.00/M
	2500	100 ~ 400	40	SSOP	PS2811-4A-ND	4.14	3.70	3.03	—	—
	2500	100 ~ 400	40	SSOP	PS2811-4ATR-ND	—	—	—	2,500	1508.00/M
	2500	100 ~ 400	40	SSOP	PS2815-4A-ND	3.02	2.70	2.22	—	—
	2500	400 ~ 4500	350	SSOP	PS2833-4-ND	6.04	5.39	4.42	—	—

§ Cut Tape * 10.16mm (0.4") wide row spacing; standard spacing is 7.62mm (0.3") ‡ VDE Approved
† For Tape and Reel part number, change CT-ND to TR-ND. ✔ ***NEW!***

High Speed Analog Output Optoisolators

Fig.	Isolation Voltage	CTR (%)	Vcc (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing
2	3750	15 ~ 35	35	SOP	PS8101-AX-ND	2.29	2.08	1.67	—	—
	3750	15 ~ 35	35	SOP	PS8101-F3-AXCT-ND§	2.38	2.04	1.67	2,500	918.00/M
	2500	10 ~ 30	15	SOP	PS8103-ND	1.95	1.63	1.38	—	—
4	2500	15 ~ 35	35	SSOP	PS8802-1CT-ND§	1.98	1.65	1.40	—	—
	2500	15 ~ 45	35	SSOP	PS8802-1-AX-ND	2.57	2.33	1.87	—	—
	2500	15 ~ 45	35	SSOP	PS8802-1-F3-AXCT-ND§	2.10	1.80	1.47	1,500	1030.00/M
	2500	15 ~ 45	35	SSOP	PS8802-2-AX-ND	4.40	3.93	3.22	—	—
	2500	15 ~ 45	35	SSOP	PS8802-2-F3-AXCT-ND§	3.36	3.03	2.47	1,500	1890.00/M
	2500	20 ~ 40	7	SSOP	PS8821-1-AX-ND ***NEW!***	2.73	2.47	1.98	—	—
	2500	20 ~ 40	7	SSOP	PS8821-2-AX-ND ***NEW!***	4.62	4.13	3.39	—	—

§ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

High Speed Digital Photocouplers

Fig.	Output Type	Isolation Voltage	Package	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing
2	OC	3750	SOP	PS9113-AX-ND ***NEW!***	3.67	3.28	2.69	—	—
	OC	3750	SOP	PS9117A-AX-ND	2.17	1.96	1.58	—	—
	OC	3750	SOP	PS9117A-F3-AXCT-ND§	2.38	2.04	1.67	2,500	918.00/M
	OC	3750	SOP	PS9121-AX-ND	2.97	2.65	2.18	—	—
	OC	3750	SOP	PS9121-F3-AXCT-ND§	3.12	2.67	2.19	2,500	1202.00/M
	OC	3750	SOP	PS9122-L-AX-ND ***NEW!***	2.94	2.63	2.16	—	—
	OC	3750	SOP	PS9122-N-AX-ND ***NEW!***	2.94	2.63	2.16	—	—
3	TP	5000	SDIP	PS9303L-AX-ND ***NEW!***	3.92	3.50	2.87	—	—
	OC	5000	SDIP	PS9313L-AX-ND ***NEW!***	4.06	3.63	2.98	—	—
	OC	5000	SDIP	PS9317L-AX-ND ***NEW!***	4.20	3.75	3.08	—	—
4	OC	5000	DIP	PS9587-AX-ND ***NEW!***	2.57	2.33	1.87	—	—
	OC	5000	SMD	PS9587L2-V-E3-AXCT-ND§ ***NEW!***	2.35	2.01	1.65	1,000	1088.00
	OC	2500	SSOP	PS9817A-1-AX-ND	2.51	2.27	1.83	—	—
	OC	2500	SSOP	PS9817A-1-F3-AXCT-ND§	2.24	1.92	1.57	1,500	1015.00/M
	OC	2500	SSOP	PS9817A-2-AX-ND	3.28	2.93	2.40	—	—
	OC	2500	SSOP	PS9817A-2-F3-AXCT-ND§	3.45	3.11	2.53	1,500	1610.00/M
	OC	2500	SSOP	PS9821-1-AX-ND	2.76	2.50	2.01	—	—
	OC	2500	SSOP	PS9821-1-F3-AXCT-ND§	2.10	1.80	1.47	1,500	1102.00/M
	OC	2500	SSOP	PS9821-2-AX-ND	4.12	3.68	3.02	—	—
	OC	2500	SSOP	PS9821-2-F3-AXCT-ND§	3.39	3.06	2.49	1,500	1582.00/M
	TP	5000	DIP	PS9552-AX-ND	3.01	2.72	2.19	—	—
	TP	5000	SMT	PS9552L2-AX-ND	3.50	3.13	2.57	—	—
	TP	5000	SMT	PS9552L3-AX-ND	3.50	3.13	2.57	—	—
	TP	5000	SMT	PS9552L3-E3-AXCT-ND§	3.04	2.74	2.33	—	—
	TP	5000	SMT	PS9553L3-AX-ND	2.78	2.50	2.13	—	—
	TP	5000	SMT	PS9553L3-E3-AXCT-ND§	2.73	2.46	2.09	1,000	1417.00

§ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

RoHS COMPLIANT

Digi-Reel®

Phototransistor Output Optocouplers

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
1	5300	>20%	70	6-DIP	751-1259-5-ND	.58	.50	.37	—	—	—	4N38
	5300	40 ~ 80%	70	6-DIP	751-1265-5-ND	.63	.54	.40	—	—	—	CNY17-1
	5300	63 ~ 125%	70	6-DIP	751-1266-5-ND	.63	.54	.40	—	—	—	CNY17-2
	5300	100 ~ 200%	70	6-DIP	751-1267-5-ND	.63	.54	.40	—	—	—	CNY17-3
	5300	160 ~ 320%	70	6-DIP	751-1268-5-ND	.63	.54	.40	—	—	—	CNY17-4
	5300	>50%	70	6-DIP	751-1273-5-ND	.74	.65	.50	—	—	—	H11A1
	5300	>20%	70	6-DIP	751-1274-5-ND	.74	.65	.50	—	—	—	H11A2
	5300	>20%	70	6-DIP	751-1275-5-ND	.74	.65	.50	—	—	—	H11A3
	5300	>20%	300	6-DIP	751-1278-5-ND	1.61	1.43	1.13	—	—	—	H11D1
	5300	>20%	200	6-DIP	751-1279-5-ND	1.32	1.18	.93	—	—	—	H11D3
	5300	>20%	50	6-DIP	751-1280-5-ND	.98	.86	.67	—	—	—	IL1
	5300	>100%	70	6-DIP	751-1281-5-ND	.93	.83	.66	—	—	—	IL2
2	5300	50 ~ 80%	30	6-DIP	751-1337-5-ND	.62	.54	.42	—	—	—	MOC8101
	5300	73 ~ 117%	30	6-DIP	751-1338-5-ND	.62	.54	.42	—	—	—	MOC8102
	5300	108 ~ 173%	30	6-DIP	751-1339-5-ND	.62	.54	.42	—	—	—	MOC8103
	5300	160 ~ 256%	30	6-DIP	751-1340-5-ND	.62	.54	.42	—	—	—	MOC8104
	5300	40 ~ 80%	70	6-DIP	751-1269-5-ND	.63	.54	.40	—	—	—	CNY17F-1
	5300	63 ~ 125%	70	6-DIP	751-1270-5-ND	.63	.54	.40	—	—	—	CNY17F-2
	5300	100 ~ 200%	70	6-DIP	751-1271-5-ND	.63	.54	.40	—	—	—	CNY17F-3
	5300	160 ~ 320%	70	6-DIP	751-1272-5-ND	.63	.54	.40	—	—	—	CNY17F-4
3	5300	>20%	30	6-DIP	751-1276-5-ND	1.14	1.02	.81	—	—	—	H11AA1
	5300	>100%	30	6-DIP	751-1290-5-ND	1.50	1.33	1.06	—	—	—	IL252
4	4000	40 ~ 80%	70	8-SOIC	751-1282-1-ND§	1.03	.90	.71	751-1282-2-ND	2,000	341.00/M	IL205AT
	4000	63 ~ 125%	70	8-SOIC	751-1283-1-ND§	1.03	.90	.71	751-1283-2-ND	2,000	341.00/M	IL206AT
	4000	100 ~ 200%	70	8-SOIC	751-1284-1-ND§	1.03	.90	.71	751-1284-2-ND	2,000	341.00/M	IL207AT
	4000	160 ~ 320%	70	8-SOIC	751-1285-1-ND§	1.03	.90	.71	751-1285-2-ND	2,000	341.00/M	IL208AT
	4000	>20%	70	8-SOIC	751-1286-1-ND§	1.03	.90	.71	751-1286-2-ND	2,000	341.00/M	IL211AT
	4000	>100%	70	8-SOIC	751-1287-1-ND§	1.03	.90	.71	751-1287-2-ND	2,000	341.00/M	IL213AT
	4000	>100%	30	8-SOIC	751-1288-1-ND§	.97	.87	.70	751-1288-2-ND	2,000	358.00/M	IL217AT
5	4000	>20%	30	8-SOIC	751-1291-1-ND§	1.17	1.05	.83	751-1291-2-ND	2,000	430.00/M	IL256AT
6	5300	>20%	50	8-DIP	751-1306-5-ND	1.36	1.21	.96	—	—	—	ILD1
	5300	>100%	70	8-DIP	751-1307-5-ND	1.43	1.27	1.01	—	—	—	ILD2
	5300	>50%	70	8-DIP	751-1318-5-ND	1.87	1.69	1.36	—	—	—	ILD5
	5300	35%	20	8-DIP	751-1326-5-ND	1.61	1.43	1.13	—	—	—	ILD74
	5300	≥20%	30	8-DIP	751-1336-5-ND	1.18	1.05	.83	—	—	—	MCT6
7	4000	40 ~ 80%	70	8-SOIC	751-1308-1-ND§	1.28	1.15	.91	751-1308-2-ND	2,000	472.00/M	ILD205T
	4000	63 ~ 125%	70	8-SOIC	751-1309-1-ND§	1.28	1.15	.91	751-1309-2-ND	2,000	472.00/M	ILD206T
	4000	100 ~ 200%	70	8-SOIC	751-1310-1-ND§	1.28	1.15	.91	751-1310-2-ND	2,000	472.00/M	ILD207T
	4000	>20%	70	8-SOIC	751-1311-1-ND§	1.28	1.15	.91	751-1311-2-ND	2,000	472.00/M	ILD211T
	4000	>100%	70	8-SOIC	751-1312-1-ND§	1.28	1.15	.91	751-1312-2-ND	2,000	472.00/M	ILD213T
	4000	>100%	70	8-SOIC	751-1313-1-ND§	1.36	1.22	.97	751-1313-2-ND	2,000	501.00/M	ILD217T
8	5300	>50%	30	8-DIP	751-1315-5-ND	3.01	2.72	2.19	—	—	—	ILD250
9	5300	63 ~ 125%	70	8-DIP	751-1320-5-ND	1.61	1.43	1.13	—	—	—	ILD615-2
	5300	100 ~ 200%	70	8-DIP	751-1321-5-ND	1.61	1.43	1.13	—	—	—	ILD615-3
	5300	160 ~ 320%	70	8-DIP	751-1322-5-ND	1.65	1.46	1.16	—	—	—	ILD615-4
10	4000	>20%	70	8-SOIC	751-1317-1-ND§	1.79	1.60	1.27	751-1317-2-ND	2,000	658.00/M	ILD256T
11	5300	>100%	70	8-DIP	751-1324-5-ND	2.28	2.06	1.66	—	—	—	ILD620GB
12	5300	63 ~ 125%	70	4-DIP	751-1342-5-ND	.90	.80	.63	—	—	—	SFH610A-2
	5300	160 ~ 320%	70	4-DIP	751-1344-5-ND	.90	.80	.63	—	—	—	SFH610A-4
13	5300	40 ~ 80%	70	4-SMD	751-1345-1-ND§	.85	.74	.59	751-1345-2-ND	1,000	310.00	SFH6156-1T
	5300	63 ~ 125%	70	4-SMD	751-1346-1-ND§	.85	.74	.59	751-1346-2-ND	1,000	310.00	SFH6156-2T
	5300	100 ~ 200%	70	4-SMD	751-1347-1-ND§	.85	.74	.59	751-1347-2-ND	1,000	310.00	SFH6156-3T
	5300	160 ~ 320%	70	4-SMD	751-1348-1-ND§	.85	.74	.59	751-1348-2-ND	1,000	310.00	SFH6156-4T
	5300	100 ~ 200%	55	4-SMD	751-1352-1-ND§	1.01	.91	.72	751-1352-2-ND	1,000	399.00	SFH6186-3T
	5300	63 ~ 125%	70	4-DIP	751-1349-5-ND	.70	.61	.47	—	—	—	SFH615A-2
	5300	100 ~ 200%	70	4-DIP	751-1350-5-ND	.70	.61	.47	—	—	—	SFH615A-3
	5300	160 ~ 320%	70	4-DIP	751-1351-5-ND	.70	.61	.47	—	—	—	SFH615A-4
	5300	63 ~ 125%	55	4-DIP	751-1353-5-ND	.98	.86	.67	—	—	—	SFH618A-2
	5300	100 ~ 200%	55	4-DIP	751-1354-5-ND	.98	.86	.67	—	—	—	SFH618A-3
	5300	250 ~ 500%	55	4-DIP	751-1356-5-ND	.98	.86	.67	—	—	—	SFH618A-5
14	5300	40 ~ 125%	70	4-DIP	751-1357-5-ND	.82	.72	.56	—	—	—	SFH620A-1
	5300	63 ~ 200%	70	4-DIP	751-1358-5-ND	.82	.72	.56	—	—	—	SFH620A-2
	5300	100 ~ 320%	70	4-DIP	751-1359-5-ND	.82	.72	.56	—	—	—	SFH620A-3
	5300	100 ~ 320%	55	4-SMD	751-1360-1-ND§	1.24	1.12	.89	751-1360-2-ND	1,000	491.00	SFH6286-3T
	5300	100 ~ 320%	55	4-DIP	751-1361-5-ND	1.07	.96	.76	—	—	—	SFH628A-3
	5300	160 ~ 500%	55	4-DIP	751-1362-5-ND	1.07	.96	.76	—	—	—	SFH628A-4
15	3750	50 ~ 300%	70	Mini-Flat	751-1367-1-ND§	.68	.59	.47	751-1367-2-ND	2,000	223.00/M	SFH690ABT
	3750	50 ~ 150%	70	Mini-Flat	751-1368-1-ND§	.77	.67	.53	751-1368-2-ND	2,000	252.00/M	SFH690AT
	3750	100 ~ 300%	70	Mini-Flat	751-1369-1-ND§	.77	.67	.53	751-1369-2-ND	2,000	252.00/M	SFH690BT
16	3750	50 ~ 300%	70	Mini-Flat	751-1370-5-ND	4.63	4.14	3.40	—	—	—	SFH6916
17	5300	>20%	50	16-DIP	751-1329-5-ND	2.37	2.15	1.73	—	—	—	ILQ1
	5300	>100%	70	16-DIP	751-1330-5-ND	2.47	2.23	1.80	—	—	—	ILQ2

§ Cut Tape

Fig. 1

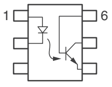

With Base Connection

Fig. 2

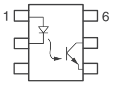

No Base Connection

Fig. 3

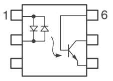

AC Input with Base Connection

Fig. 4

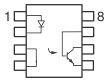

With Base Connection

Fig. 5

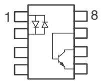

AC Input With Base Connection

Fig. 6

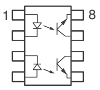

Fig. 7

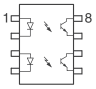

Fig. 8

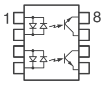

AC Input With Base Connection

Fig. 9

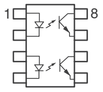

Fig. 10

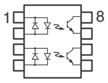

AC Input

Fig. 11

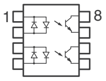

AC Input

Fig. 12

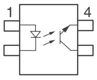

Fig. 13

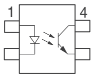

Fig. 14

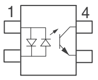

AC Input

Fig. 15

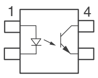

SOP

Fig. 16

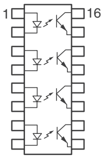

SOP

Fig. 17

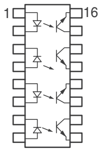

Fig. 18

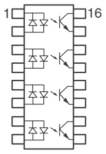

AC Input

Fig. 19

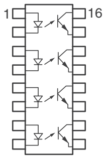

Fig. 20

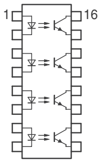

DIP or SOP

(Continued)

Optocouplers

Phototransistor Output Optocouplers *(Cont.)*

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
18	5300	>50%	70	16-DIP	751-1331-5-ND	3.43	3.07	2.52	—	—	—	ILQ620
	5300	>100%	70	16-DIP	751-1332-5-ND	3.86	3.45	2.83	—	—	—	ILQ620GB
19	5300	>50%	70	16-DIP	751-1333-5-ND	3.01	2.72	2.19	—	—	—	ILQ621
	5300	>100%	70	16-DIP	751-1334-5-ND	2.86	2.56	2.10	—	—	—	ILQ621GB
20	5000	50 ~ 600%	70	16-DIP	751-1371-5-ND	1.58	1.44	1.15	—	—	—	TCET4100
	3750	50 ~ 600%	70	Mini-Flat	751-1375-1-ND§	2.13	1.83	1.49	751-1375-2-ND	2,000	821.00/M	TCMT4100
21A	5000	>20%	70	16-DIP	751-1372-5-ND	2.10	1.90	1.53	—	—	—	TCET4600
	3750	80 ~ 300%	70	Mini-Flat	751-1376-1-ND§	2.32	1.99	1.63	751-1376-2-ND	2,000	894.00/M	TCMT4600
21B	3750	80 ~ 300%	70	Mini-Flat	751-1374-1-ND§	.73	.64	.50	751-1374-2-ND	3,000	241.00/M	TCMT1600

§ Cut Tape

Photodarlington Output Optocouplers

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Vishay Part No.
22	5300	>500%	25	6-DIP	751-1277-5-ND	1.11	.99	.78	—	—	H11B1
23	4000	>500%	30	8-SOIC	751-1289-1-ND§	1.05	.94	.75	751-1289-2-ND	386.00/M	IL223AT
24	4000	>500%	30	8-SOIC	751-1314-1-ND§	1.86	1.67	1.33	751-1314-2-ND	686.00/M	ILD223T
25	5300	>100%	55	8-DIP	751-1319-5-ND	2.34	2.12	1.71	—	—	ILD55
26	5300	>1000%	60	8-DIP	751-1328-5-ND	4.46	3.98	3.27	—	—	ILD755-2
27	5300	≥500%	60	16-DIP	751-1335-5-ND	3.72	3.32	2.73	—	—	ILQ66-4

§ Cut Tape

Phototriac Output Optocouplers — High dV/dt, Low Input Current

Fig.	Isolation Voltage	VDRM (Minimum)	LED Trigger Current IFT (Maximum)	Package	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
28	5300	600	2mA, 5mA	6-DIP	751-1297-5-ND	3.29	2.94	2.41	IL410
	5300	800	2mA, 5mA	6-DIP	751-1298-5-ND	3.57	3.19	2.62	IL4108
	5300	600	5mA	6-DIP	751-1383-5-ND	1.36	1.21	.96	VO3063
29	5300	800	1.3mA	6-DIP	751-1300-5-ND	4.52	4.04	3.31	IL4118
30	5300	600	2mA	6-DIP	751-1301-5-ND	3.29	2.94	2.41	IL420
	5300	800	2mA	6-DIP	751-1302-5-ND	3.57	3.19	2.62	IL4208
	5300	600	1.3mA	6-DIP	751-1303-5-ND	3.57	3.19	2.62	IL4216
	5300	800	1.3mA	6-DIP	751-1304-5-ND	4.52	4.04	3.31	IL4218
31	5300	600	10mA	8-DIP	751-1489-5-ND ***NEW!***	1.23	.98	.86	V02223
	5300	600	10mA	8-DIP	751-1490-5-ND ***NEW!***	1.23	1.09	.86	V02223A

High Speed Optocouplers

Fig.	Isolation Voltage	Common Mode Trans. Immunity CMH	Prop Delay tPHL	tPLH	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Vishay Part No.
32	5300	1000 V/µs	1.5µs	1.5µs	8-DIP	751-1260-5-ND	1.29	1.15	.91	—	—	6N135
	5300	1000 V/µs	0.8µs	0.8µs	8-DIP	751-1261-5-ND	1.32	1.18	.93	—	—	6N136
33	5300	100 V/µs	75ns	75ns	8-DIP	751-1262-5-ND	1.58	1.44	1.15	—	—	6N137
	5300	5 kV/µs	100ns	100ns	8-DIP	751-1379-5-ND	1.74	1.58	1.27	—	—	VO2601
	5300	10 kV/µs	100ns	100ns	8-DIP	751-1380-5-ND	1.90	1.72	1.38	—	—	VO2611
34	4000	5 kV/µs	100ns	100ns	8-SOIC	751-1377-1-ND§	2.86	2.46	2.01	751-1377-2-ND	1103.00/M	VO0601T
35	5300	5 kV/µs	100ns	100ns	8-DIP	751-1381-5-ND	2.85	2.58	2.07	—	—	VO2631
36	4000	15 kV/µs	0.8µs	0.8µs	8-SOIC	751-1363-1-ND§	1.86	1.60	1.31	751-1363-2-ND	717.00/M	SFH6316T
37	4000	15 kV/µs	1.0µs	1.0µs	8-SOIC	751-1364-1-ND§	2.07	1.78	1.46	751-1364-2-ND	799.00/M	SFH6343T
	5300	15 kV/µs	0.8µs	0.8µs	8-DIP	751-1365-5-ND	1.74	1.58	1.27	—	—	SFH6345
38	4000	1000 V/µs	300ns	300ns	8-SOIC	751-1366-1-ND§	2.32	2.00	1.63	751-1366-2-ND	896.00/M	SFH6720T
39	5300	500 V/µs	10µs	35µs	8-DIP	751-1263-5-ND	1.43	1.27	1.01	—	—	6N138
	5300	500 V/µs	25µs	60µs	8-DIP	751-1264-5-ND	1.57	1.40	1.11	—	—	6N139
40	3750	1 kV/µs	1µs	1µs	5-SOP	751-1492-1-ND§ ***NEW!***	1.14	1.02	.81	751-1492-2-ND ***NEW!***	420.00/M	VOM452T
	3750	15 kV/µs	1µs	1µs	5-SOP	751-1493-1-ND§ ***NEW!***	1.33	1.19	.95	751-1493-2-ND ***NEW!***	490.00/M	VOM453T

§ Cut Tape

Linear Optocouplers

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity (K2/K1) (If = 1.0-10mA)	Package	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
41	5300	0.557 ~ 1.618	±0.25%	8-DIP	751-1292-5-ND	4.43	3.96	3.25	IL300
	5300	0.765 ~ 1.181	±0.25%	8-DIP	751-1293-5-ND	4.57	4.09	3.35	IL300-DEFG
	5300	0.851 ~ 0.955	±0.25%	8-DIP	751-1294-5-ND	10.84	9.76	8.03	IL300-E
	5300	0.945 ~ 1.061	±0.25%	8-DIP	751-1296-5-ND	10.84	9.76	8.03	IL300-F

NEW! Output Current IGBT and MOSFET Driver

Fig.	Isolation Voltage	Peak Output Current	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Part No.
42	5300	2.5A	8-SMD	751-1475-1-ND	2.31	1.98	1.62	751-1475-2-ND	957.00	VO3120-X007T
	5300	0.5A	8-SMD	751-1476-1-ND	1.96	1.68	1.38	751-1476-2-ND	812.00	VO3150A-X007T

Fig. 21

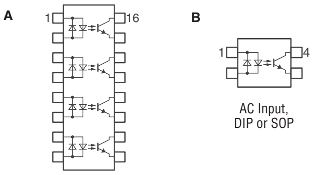

AC Input, DIP or SOP

Fig. 22

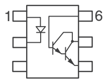

High Gain, With Base Connection

Fig. 23

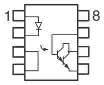

Low Input Current, With Base Connection

Fig. 24

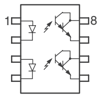

Fig. 25

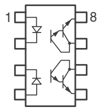

Fig. 26

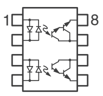

AC Input

Fig. 27

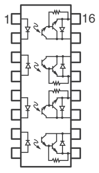

Internal RBE for High Stability

Fig. 28

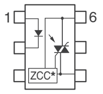

Zero Crossing Circuit

Fig. 29

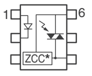

Zero Crossing Circuit

Fig. 30

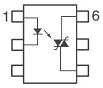

Fig. 31 ***NEW!***

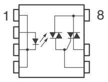

Fig. 32

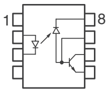

Open-Collector Output

Fig. 33

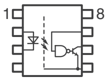

NMOS Transistor Output

Fig. 34

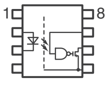

NMOS Transistor Output

Fig. 35

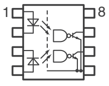

NMOS Transistor Output

Fig. 36

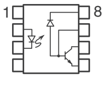

Transistor Output

Fig. 37

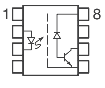

Open-Collector Output

Fig. 38

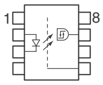

Fig. 39

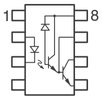

Photodiode Darlington Output

Fig. 40 ***NEW!***

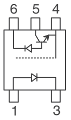

Fig. 41

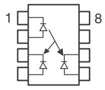

Wide Bandwidth

Fig. 42 ***NEW!***

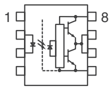

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OPTEK

A subsidiary of TT electronics plc

Optoisolators

OPI1264 Series:

Optically coupled isolators, each consisting of an infrared emitting diode coupled to an NPN silicon phototransistor and sealed in a precast opaque housing.

OPI155 Series:

Contains a high speed monolithic photo-IC comprised of a photo-diode and DC amplifier driving an open collector output Schottky transistor.

Fig. 1

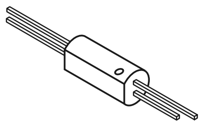

Fig. 2

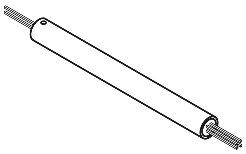

Fig.	Isolation Voltage	Forward DC Current (mA)	Reverse DC Voltage	DC Current Transfer Ratio	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
1	±10k	40	2.0	25%	365-1031-ND	3.08	1.80	1.73	OPI1264A
	±10k	40	2.0	50%	365-1032-ND	3.08	1.80	1.73	OPI1264B
	±10k	40	2.0	100%	365-1033-ND	3.14	1.83	1.76	OPI1264C
2	±50k	50	3.0	25mA	365-1034-ND	73.43	42.72	41.08	OPI155

Photocouplers

Fig. 1

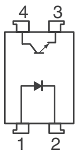

Fig. 2

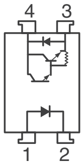

Fig. 3

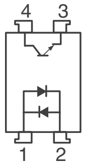

Fig. 4

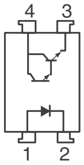

Fig. 5

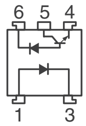

Fig. 6

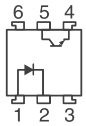

Fig. 7

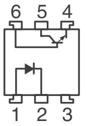

Fig. 8

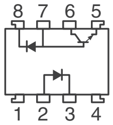

Fig.	Isolation Voltage	Current Transfer Ratio Minimum	Maximum	VCEO (Maximum)	Typical ton/toff (μsec.)	Package Type	Digi-Key Part No.	Pricing 1	100	250	TTE/OPTEK Technology Part No.
1	5000	50%	600%	60	4/3	SMD	365-1411-1-ND†	.33	21.00	45.00	OPIA817ATR
	5000	50%	600%	60	4/3	SMD	365-1411-2-ND‡		300.00/2,000		OPIA817ATR
	5000	50%	600%	60	4/3	SMD	365-1412-ND	.25	15.00	35.00	OPIA817ATU
	5000	50%	600%	60	4/3	DIP	365-1436-ND	.25	15.00	35.00	OPIA817DTU
	3750	50%	600%	60	5/4	SOP	365-1420-1-ND†	.42	27.30	58.50	OPIA404BTRE
	3750	50%	600%	60	5/4	SOP	365-1420-2-ND‡		540.00/3,000		OPIA404BTRE
	2500	80%	600%	80	3/5	SSOP	365-1421-1-ND†	.46	29.40	63.00	OPIA405CTRE
	2500	80%	600%	80	3/5	SSOP	365-1421-2-ND‡		600.00/3,000		OPIA405CTRE
	5000	50%	600%	350	2/3	SMD	365-1432-1-ND†	1.33	86.10	184.50	OPIA1210ATRE
	3750	100%	600%	80	4/3	SSOP	365-1434-1-ND†	1.53	98.70	211.50	OPIA414BTRA
	3750	100%	600%	80	4/3	SSOP	365-1434-2-ND‡		1950.00/3,000		OPIA414BTRA
2	3750	1000%	—	300	100/20	SSOP	365-1413-1-ND†	1.01	65.10	139.50	OPIA401BTR
	5000	600%	9000%	300	60/50	SMD	365-1430-1-ND†	.78	50.40	108.00	OPIA4010ATR
3	5000	60%	600%	60	5/4	SMD	365-1426-1-ND†	.62	39.90	85.50	OPIA814ATRA
	5000	60%	600%	60	5/4	SMD	365-1427-ND	.47	28.00	67.50	OPIA814ATUA
4	3750	600%	7500%	35	60/53	SSOP	365-1417-1-ND†	.78	50.40	108.00	OPIA403BTR
	3750	600%	7500%	35	60/53	SSOP	365-1418-ND	.63	37.00	90.00	OPIA403BTU
	5000	70%	—	35	80/72	SMD	365-1428-1-ND†	.78	50.40	108.00	OPIA815ATR
	5000	70%	—	35	80/72	SMD	365-1429-ND	.63	37.00	90.00	OPIA815ATU
5	3750	19%	50%	—	0.8/0.8	DIP	365-1460-1-ND†	1.59	102.90	220.50	OPIA500BTR
6	5000	40%	400%	60	4/3	DIP	365-1451-1-ND†	.55	35.70	76.50	OPIA2110ATRE
7	5000	60%	600%	60	5/4	DIP	365-1441-1-ND†	.42	27.30	58.50	OPIA4N35ATRE
	5000	60%	600%	60	5/4	DIP	365-1454-ND	.33	20.00	47.50	OPIA4N35DTUE
	5000	50%	600%	350	2/3	DIP	365-1447-1-ND†	1.50	96.60	207.00	OPIA2210ATRE
	5000	50%	600%	350	2/3	DIP	365-1448-ND	1.24	72.00	175.00	OPIA2210ATUE
8	5000	5%	—	15	0.4/0.3	DIP	365-1465-ND	1.02	60.00	142.50	OPIA803DTU

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

LITEON Optoisolators

Digi-Reel®

Fig. 1
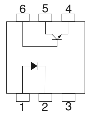

Fig. 2
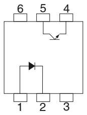

Fig. 3
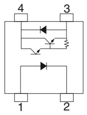

Fig. 4
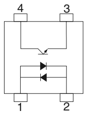

Fig. 5
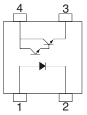

Fig. 6
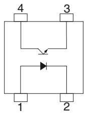

Fig. 7
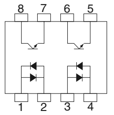

Fig. 8
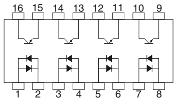

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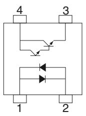

Fig. 10
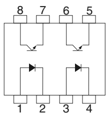

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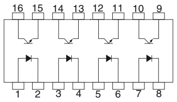

Fig. 12
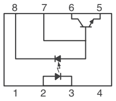

Fig. 13
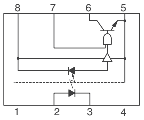

Fig. 14
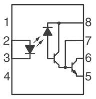

Fig. 15
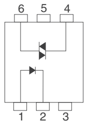

Fig. 16
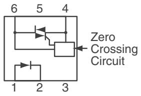

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Current Transfer Ratio Max.	Typ. VCEO (Max.)	ton/toff (µsec.)	Pkg. Type	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
1	2500	20%	—	30	3.0/3.0	DIP	160-1300-5-ND◆	.55	3.97	25.92	4N25
	2500	20%	—	30	3.0/3.0	SMT	160-1301-5-ND◆	.58	4.17	27.20	4N25S
	1500	20%	—	30	3.0/3.0	DIP	160-1302-5-ND◆	.56	4.02	26.24	4N26
	1500	20%	—	30	3.0/3.0	SMT	160-1303-5-ND◆	.58	4.17	27.20	4N26S
	3550	100%	—	30	3.0/3.0	DIP	160-1304-5-ND◆	.55	3.97	25.92	4N35
	3550	100%	—	30	3.0/3.0	SMT	160-1305-5-ND◆	.55	3.97	25.92	4N35S
	1500	100%	—	30	3.0/3.0	DIP	160-1306-5-ND◆	.55	3.97	25.92	4N37
	1500	100%	—	30	3.0/3.0	SMT	160-1307-5-ND◆	.58	4.17	27.20	4N37S
	5000	40%	80%	70	5.0/5.0	DIP	160-1308-5-ND◆	.55	3.97	25.92	CNY17-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1309-5-ND◆	.58	4.17	27.20	CNY17-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1310-5-ND◆	.55	4.29	30.80	CNY17-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1311-5-ND◆	.63	4.88	35.00	CNY17-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1312-5-ND◆	.55	3.97	25.92	CNY17-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1313-5-ND◆	.58	4.17	27.20	CNY17-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1314-5-ND◆	.55	3.97	25.92	CNY17-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1315-5-ND◆	.58	4.17	27.20	CNY17-4S
	5000	20%	—	30	2.8/4.5	SMT	160-1327-5-ND	.47	3.37	21.98	H11A2S
	5000	20%	—	300	5.0/5.0	DIP	160-1328-5-ND◆	.86	6.65	47.50	H11D1
	5000	20%	—	300	5.0/5.0	SMT	160-1329-5-ND◆	.87	6.79	48.50	H11D1S
	5000	40%	320%	70	2.0/2.0	DIP	160-1342-5-ND	.55	3.97	25.92	LTV-702V
2	5000	40%	80%	70	5.0/5.0	DIP	160-1316-5-ND◆	.55	3.97	25.92	CNY17F-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1317-5-ND◆	.58	4.17	27.20	CNY17F-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1318-5-ND◆	.55	3.97	25.92	CNY17F-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1319-5-ND◆	.58	4.17	27.20	CNY17F-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1320-5-ND◆	.56	4.02	26.24	CNY17F-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1321-5-ND◆	.58	4.17	27.20	CNY17F-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1322-5-ND◆	.55	3.97	25.92	CNY17F-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1323-5-ND◆	.58	4.17	27.20	CNY17F-4S
	5000	40%	320%	70	2.0/2.0	DIP	160-1340-5-ND	.55	3.97	25.92	LTV-702F
	5000	40%	320%	70	2.0/2.0	SMT	160-1341-5-ND◆	.58	4.17	27.20	LTV-702FS
3	3750	1000%	—	300	100/20	SMT	160-1331-1-ND◆†	.86	6.58	47.03	LTV-352T
	3750	1000%	—	300	100/20	SMT	160-1331-2-ND◆‡		213.00/750		LTV-352T
4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-1-ND◆†	.56	4.30	31.00	LTV-354T
	3750	20%	400%	35	4.0/3.0	SMT	160-1333-2-ND◆‡		138.75/750		LTV-354T
	5000	20%	300%	35	4.0/3.0	DIP	160-1344-5-ND◆	.60	4.31	28.16	LTV-814
	5000	20%	300%	35	4.0/3.0	SMT	160-1345-5-ND◆	.62	4.46	29.12	LTV-814S
	5000	20%	80%	35	4.0/3.0	DIP	160-1350-5-ND◆	.50	3.90	28.00	LTV-814H
	5000	20%	80%	35	4.0/3.0	SMT	160-1351-5-ND◆	.52	4.06	29.12	LTV-814HS
5	3750	600%	7500%	35	60/53	SMT	160-1335-1-ND◆†	.57	4.34	31.31	LTV-355T
	3750	600%	7500%	35	60/53	SMT	160-1335-2-ND◆‡		140.14/750		LTV-335T
	5000	600%	7500%	35	60/53	DIP	160-1358-5-ND◆	.54	3.87	25.28	LTV-815
	5000	600%	7500%	35	60/53	SMT	160-1359-5-ND◆	.56	4.07	26.56	LTV-815S
6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-1-ND◆†	.53	4.05	26.25	LTV-356T
	3750	50%	600%	80	4.0/3.0	SMT	160-1337-2-ND◆‡		112.50/750		LTV-356T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-1-ND◆†	.53	4.05	26.25	LTV-357T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-2-ND◆‡		112.50/750		LTV-357T
	5000	50%	600%	80	4.0/3.0	DIP	160-1360-5-ND◆	.43	3.09	20.16	LTV-816
	5000	50%	600%	80	4.0/3.0	SMT	160-1361-5-ND◆	.45	3.23	21.12	LTV-816S
	5000	50%	600%	35	4.0/3.0	DIP	160-1366-5-ND◆	.43	3.09	20.16	LTV-817
	5000	50%	600%	35	4.0/3.0	SMT	160-1367-5-ND◆	.45	3.23	21.12	LTV-817S
7	5000	20%	300%	35	4.0/3.0	DIP	160-1346-5-ND◆	.79	6.13	43.75	LTV-824
	5000	20%	300%	35	4.0/3.0	SMT	160-1347-5-ND◆	.81	6.27	44.75	LTV-824S
	5000	20%	80%	35	4.0/3.0	DIP	160-1352-5-ND◆	.90	7.00	50.00	LTV-824H
8	5000	20%	300%	35	4.0/3.0	DIP	160-1348-5-ND◆	1.40	11.38	78.75	LTV-844
	5000	20%	300%	35	4.0/3.0	SMT	160-1349-5-ND◆	1.42	11.51	79.65	LTV-844S
9	5000	600%	7500%	35	60/53	DIP	160-1356-5-ND◆	.71	5.53	39.50	LTV-8141
	5000	600%	7500%	35	60/53	SMT	160-1357-5-ND◆	.72	5.64	40.25	LTV-8141S
10	5000	50%	600%	80	4.0/3.0	DIP	160-1362-5-ND◆	.63	4.88	35.00	LTV-826
	5000	50%	600%	80	4.0/3.0	SMT	160-1363-5-ND◆	.65	5.03	36.12	LTV-826S
	5000	50%	600%	35	4.0/3.0	DIP	160-1368-5-ND◆	.63	4.88	35.00	LTV-827
	5000	50%	600%	35	4.0/3.0	SMT	160-1369-5-ND◆	.65	5.03	36.12	LTV-827S
11	5000	50%	600%	80	4.0/3.0	DIP	160-1364-5-ND◆	1.00	8.13	56.25	LTV-846
	5000	50%	600%	80	4.0/3.0	SMT	160-1365-5-ND◆	1.02	8.26	57.15	LTV-846S
	5000	50%	600%	35	4.0/3.0	DIP	160-1370-5-ND◆	1.00	8.13	56.25	LTV-847
	5000	50%	600%	35	4.0/3.0	SMT	160-1371-5-ND◆	1.02	8.26	57.15	LTV-847S
12	5000	7%	50%	—	2.0/2.0	DIP	160-1783-ND◆	1.24	10.04	69.53	6N135
	5000	7%	50%	—	2.0/2.0	SMT	160-1785-ND◆	1.26	10.21	70.65	6N135S
	5000	7%	50%	—	2.0/2.0	SMT	160-1786-1-ND◆†	1.44	11.52	80.00	6N135S-TA1
	5000	7%	50%	—	2.0/2.0	SMT	160-1786-2-ND◆‡		448.00/1,000		6N135S-TA1
	5000	19%	50%	—	2.0/2.0	DIP	160-1787-ND◆	1.24	10.04	69.53	6N136
	5000	19%	50%	—	2.0/2.0	SMT	160-1789-ND◆	1.26	10.21	70.65	6N136S
	5000	19%	50%	—	2.0/2.0	SMT	160-1790-1-ND◆†	1.44	11.52	80.00	6N136S-TA1
	5000	19%	50%	—	2.0/2.0	SMT	160-1790-2-ND◆‡		448.00/1,000		6N136S-TA1
13	5000	—	—	—	.05/.012	DIP	160-1791-ND◆	1.14	9.30	64.35	6N137
	5000	—	—	—	.05/.012	SMT	160-1793-ND◆	1.16	9.46	65.48	6N137S
	5000	—	—	—	.05/.012	SMT	160-1794-1-ND◆†	1.34	10.69	74.25	6N137S-TA1
	5000	—	—	—	.05/.012	SMT	160-1794-2-ND◆‡		416.00/1,000		6N137S-TA1
14	5000	300%	—	—	50/15	DIP	160-1795-ND◆	1.14	9.30	64.35	6N138
	5000	300%	—	—	50/15	SMT	160-1797-ND◆	1.16	9.46	65.48	6N138S
	5000	300%	—	—	50/15	SMT	160-1798-1-ND◆†	1.34	10.69	74.25	6N138S-TA1
	5000	300%	—	—	50/15	SMT	160-1798-2-ND◆‡		416.00/1,000		6N138S-TA1
	5000	400%	—	—	10/2	DIP	160-1800-ND◆	1.16	9.46	65.48	6N139M
	5000	400%	—	—	10/2	SMT	160-1801-ND◆	1.16	9.46	65.48	6N139S
	5000	400%	—	—	10/2	SMT	160-1802-1-ND◆†	1.09	8.70	60.44	6N139S-TA1

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Triac Output Optoisolators

RoHS COMPLIANT

Fig.	Max. IF Isolation Voltage	Min. Trigger (mA)	Max. Blocking Voltage	IR (µA)	Package Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Lite-On Part No.
15	5000	30	400V	10	DIP	160-1372-5-ND	.71	.56	.40	MOC3020
	5000	30	400V	10	SMT	160-1373-5-ND	.72	.57	.41	MOC3020S
	5000	15	400V	10	DIP	160-1374-5-ND	.71	.56	.40	MOC3021
	5000	15	400V	10	SMT	160-1375-5-ND	.72	.57	.41	MOC3021S
	5000	10	400V	10	DIP	160-1376-5-ND	.71	.56	.40	MOC3022
	5000	10	400V	10	SMT	160-1377-5-ND	.72	.57	.41	MOC3022S
	5000	5	400V	10	DIP	160-1378-5-ND	.71	.56	.40	MOC3023
	5000	5	400V	10	SMT	160-1379-5-ND	.72	.57	.41	MOC3023S
16	5000	5	600V	10	DIP	160-1722-5-ND	.74	.58	.42	MOC3063
	5000	5	600V	10	SMT	160-1723-1-ND†	.88	.68	.49	MOC3063S-TA1
	5000	5	600V	10	SMT	160-1723-2-ND‡		264.00/1,000		MOC3063S-TA1

† Cut Tape ‡ Tape and Reel

LUMEX® Optolinks

Creating LED and LCD Solutions Together™

Specifications: • Isolation Voltage: 5000 • VCEO (Max.): 60V • Typical tr/tf: 5 µs/4 µs

Fig. 1
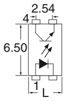

Photo Transistor Output SMT

Fig. 2
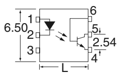

Photo Transistor Output DIP or SMT

Fig. 3
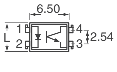

Single-Channel Photo Transistor Output DIP

Fig. 4
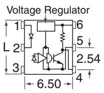

Photo IC Output DIP or SMT

Optoisolators with Photo-Transistor Output

Fig.	Current Transfer Ratio Min. - Max.	Length L (mm)	Pkg.	Digi-Key Part No.	Price Each 1	Price Each 10	Lumex Part No.
1	60 - 600%	4.60	SMT	67-1613-1-ND†◆	.69	.54	OCP-PCT114/E-TR
2	60 - 600%	7.30	DIP	67-1563-5-ND◆	.65	.51	OCP-PCTB116/E
	60 - 600%	7.30	SMT	67-1615-1-ND†◆	.59	.46	OCP-PCTB116/E-TR
3	200 - 400%	4.60	DIP	67-2044-5-ND	.59	.43	OCP-PCT114/C

◆ ***RoHS Compliant*** † Cut Tape

Optoisolators with Photo-IC Output

Fig.	Isolation Voltage	Prop Delay tPHL/tPLH (µS)	Length L (mm)	Pkg.	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Lumex Part No.
4	5000	5/3	7.3	SMT	67-1617-1-ND	1.69	1.52	OCP-PCP116-TR

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Optoisolators

Fig. 1 — 4-DIP

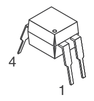

Fig. 2 — 4-SMD

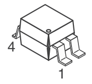

Fig. 3 — 4-PIN MFP

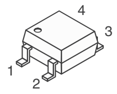

Fig. 4 — 6-DIP

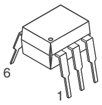

Fig. 5 — 6-SMD

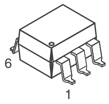

Fig. 6 — 6-WIDE DIP

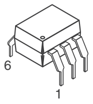

Fig. 7 — 8-SMD

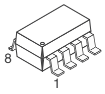

Fig. 8 — 8-DIP

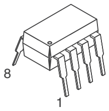

Fig. 9 — 5-PIN MFP *NEW!*

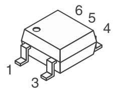

Fig. 10 — BGA

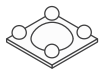

Photo Transistor Output Optoisolators

Fig.	Iso-lation Volt.	Current Transfer Ratio - Typ. (%) (Min.)	(Typ.)	(Max.)	VCEO (Max.)	Digi-Key Part No.	Price Each 1	10	100
1	5000	20	—	300	70	FOD814-ND	.60	.47	.34
	5000	20	—	300	70	FOD814300-ND†	.54	.43	.31
	5000	50	—	150	70	FOD814A300-ND†	.54	.43	.31
	5000	50	—	150	70	FOD814A300W-ND†▲	.60	.47	.34
	5000	63	—	125	70	FOD617B-ND†	.61	.44	.29
	5000	80	—	160	70	FOD817A-ND ***NEW!***	.50	.37	.24
	5000	100	—	200	70	FOD617C-ND†	.61	.44	.29
	5000	1000	4000	15000	300	FOD852-ND	.87	.68	.49
	5000	1000	4000	15000	300	FOD852300-ND†	.87	.68	.49
	5000	1000	4000	15000	300	FOD852300W-ND†▲	.87	.68	.49
2	5000	20	—	300	70	FOD814S-ND	.54	.43	.31
	5000	20	—	300	70	FOD814SDCT-ND‡	.76	.59	.43
	5000	20	—	300	70	FOD814SDTR-ND◊		225.89/1,000	
	5000	20	—	300	70	FOD8143S-ND†	.54	.43	.31
	5000	20	—	300	70	FOD8143SDCT-ND†‡	.76	.59	.43
	5000	20	—	300	70	FOD8143SDTR-ND†◊		225.89/1,000	
	5000	50	—	150	70	FOD814AS-ND	.54	.43	.31
	5000	50	—	150	70	FOD814ASDCT-ND‡	.76	.59	.43
	5000	50	—	150	70	FOD814ASDTR-ND◊		225.89/1,000	
	5000	50	—	150	70	FOD814A3SDCT-ND†‡	.76	.59	.43
	5000	50	—	150	70	FOD814A3SDTR-ND†◊		225.89/1,000	
	5000	63	—	125	70	FOD617B3SDCT-ND†‡	.58	.45	.32
	5000	63	—	125	70	FOD617B3SDTR-ND†◊		170.98/1,000	
	5000	80	—	160	70	FOD817ASDCT-ND‡	.65	.51	.33
	5000	80	—	160	70	FOD817ASDTR-ND◊		167.38/1,000	
	5000	80	—	160	70	FOD817A3SDCT-ND‡ ***NEW!***	.65	.51	.33
	5000	80	—	160	70	FOD817A3SDTR-ND◊ ***NEW!***		167.38/1,000	
	5000	300	—	600	70	FOD817DSDCT-ND‡	.65	.51	.33
	5000	300	—	600	70	FOD817DSDTR-ND◊		167.38/1,000	
	5000	1000	4000	15000	300	FOD852SDCT-ND‡	.92	.80	.63
	5000	1000	4000	15000	300	FOD852SDTR-ND◊		334.00/1,000	
	5000	1000	4000	15000	300	FOD8523SDCT-ND†‡	1.02	.79	.57
	5000	1000	4000	15000	300	FOD8523SDTR-ND†◊		306.18/1,000	
3	2500	80	—	600	80	HMHA2801-ND	.59	.46	.34
	3750	50	—	600	80	FODM121-ND	.60	.47	.34
	3750	50	—	600	80	FODM121R2CT-ND‡	.78	.63	.47
	3750	50	—	600	80	FODM121R2TR-ND◊		550.00/2,500	
	3750	50	—	300	40	FODM2701R2CT-ND‡	.77	.59	.43
	3750	50	—	300	40	FODM2701R2TR-ND◊		514.76/2,500	
	3750	50	—	300	40	FODM2705R2CT-ND‡	.80	.64	.48
	3750	50	—	300	40	FODM2705R2TR-ND◊		562.50/2,500	
	3750	50	—	300	40	FODM2705-ND	.66	.52	.37
	3750	100	—	1200	80	FODM124-ND	.57	.45	.32
	3750	100	—	1200	80	FODM124R2CT-ND‡	.77	.59	.43
	3750	100	—	1200	80	FODM124R2TR-ND◊		514.76/2,500	
4	5300	10	—	—	30	4N27MFS-ND	.58	.49	.37
	5300	20	—	—	30	4N25MFS-ND	.58	.49	.37
	5300	20	—	—	30	4N26MFS-ND	.58	.49	.37
	5300	40	60	80	70	CNY171MFS-ND	.59	.50	.38
	5300	40	—	80	70	CNY17F1MFS-ND	.68	.53	.38
	5300	50	100	—	30	MOC8100M-ND	.59	.50	.38
	5300	63	100	125	70	CNY172M-ND	.58	.49	.37
	5300	63	—	125	70	CNY17F2MFS-ND	.60	.51	.38
	5300	100	150	200	70	CNY173M-ND	.58	.49	.37
	5300	100	300	—	30	4N37MFS-ND	.58	.49	.37

Fig.	Iso-lation Volt.	Current Transfer Ratio - Typ. (%) (Min.)	(Typ.)	(Max.)	VCEO (Max.)	Digi-Key Part No.	Price Each 1	10	100
4	5300	100	300	—	30	4N35MFS-ND	.58	.49	.37
	5300	100	—	—	30	4N36M-ND	.58	.50	.37
	5300	100	—	300	70	H11AV1AM-ND▲	.84	.66	.47
	5300	100	—	300	70	H11AV1M-ND	.84	.66	.47
	5300	100	—	200	70	CNY17F3MFS-ND	.60	.51	.38
	5300	160	—	320	70	CNY174MFS-ND	.58	.49	.37
	5300	160	—	320	70	CNY17F4MFS-ND	.60	.51	.38
	7500	20	—	—	80	4N38M-ND	.96	.75	.54
	7500	20	—	—	—	H11AA1M-ND ***NEW!***	.83	.65	.47
	7500	20	—	—	300	H11D1MFS-ND	.96	.75	.54
	7500	20	—	—	300	H11D1VM-ND	.96	.75	.54
	7500	20	—	—	300	H11D2M-ND	.91	.72	.51
	7500	20	—	—	200	H11D3M-ND	.96	.75	.54
	7500	20	—	—	30	MCT2EM-ND ***NEW!***	.58	.49	.37
	7500	20	—	—	400	MOC8204M-ND	1.25	1.02	.71
	7500	50	—	150	70	MOC8106M-ND	.73	.57	.41
	7500	60	—	—	100	MCT5210M-ND	.89	.79	.63
	7500	100	—	—	60	4N29M-ND	.63	.55	.43
	7500	100	—	—	60	4N30M-ND	.63	.55	.43
	7500	100	—	200	70	CNY173VM-ND ***NEW!***	.59	.50	.38
	7500	100	—	—	—	H11AA4M-ND ***NEW!***	.87	.68	.49
	7500	100	—	—	100	MCT5211M-ND	1.08	.88	.61
	7500	120	—	—	100	MCT5201M-ND	.88	.78	.62
	7500	300	—	—	30	H11AG1M-ND	1.12	.87	.63
	7500	300	—	—	30	H11AG1VM-ND	1.12	.87	.63
	7500	300	—	—	60	TIL113M-ND	.77	.68	.53
	7500	300	—	—	30	H11AG1TVM-ND	1.12	.87	.63
	7500	500	—	—	60	4N32M-ND	.62	.55	.42
	7500	500	—	—	60	4N32VM-ND	.62	.55	.42
	7500	500	—	—	60	4N33M-ND	.62	.55	.42
	7500	500	—	—	60	4N33VM-ND	.62	.55	.42
	7500	500	—	—	60	H11B1M-ND	.63	.55	.43
	7500	500	—	—	60	H11B1VM-ND	.62	.55	.42
	7500	500	—	—	80	H11G2M-ND	.96	.75	.54
	7500	500	—	—	100	MOC8050M-ND	.62	.55	.42
	7500	500	—	—	60	4N32TVM-ND	.62	.55	.42
	7500	1000	—	—	100	H11G1M-ND	.96	.75	.54
	7500	1000	—	—	100	MOC8021M-ND	.62	.55	.42
	7500	—	—	200	30	H11F1M-ND	2.38	2.11	1.37
	7500	—	—	200	30	H11F1VM-ND	2.38	2.11	1.37
	7500	—	—	200	30	H11F1TVM-ND	2.38	2.11	1.37
	7500	—	—	330	30	H11F2M-ND	2.38	2.11	1.37
	7500	—	—	470	15	H11F3M-ND	2.38	2.11	1.37
	7500	—	—	470	15	H11F3VM-ND	2.38	2.11	1.37
5	7500	63	—	125	70	CNY172SR2MCT-ND‡ ***NEW!***	.75	.61	.46
	7500	63	—	125	70	CNY172SR2MTR-ND◊ ***NEW!***		233.00/1,000	
	7500	100	—	200	70	CNY173SM-ND ***NEW!***	.58	.50	.37
	1500	500	—	—	30	4N33SM-ND	.62	.55	.42
	1500	500	—	—	30	4N33SR 2MCT-ND‡	.76	.66	.52
	1500	500	—	—	30	4N33SR2MTR-ND◊		275.00/1,000	
	5300	20	70	—	30	4N25SM-ND	.58	.49	.37
	5300	50	120	—	30	H11A1SM-ND	.58	.49	.37
	5300	50	—	150	70	MOC8106SM-ND	.73	.57	.41
	5300	100	300	—	30	4N35SM-ND	.58	.50	.37
	7500	20	—	—	30	4N25SR2MCT-ND‡ ***NEW!***	.76	.61	.46
	7500	20	—	—	30	4N25SR2MTR-ND◊ ***NEW!***		234.00/1,000	
	7500	20	—	—	30	4N26SR2MCT-ND‡ ***NEW!***	.76	.61	.46
	7500	20	—	—	30	4N26SR2MTR-ND◊ ***NEW!***		234.00/1,000	
	7500	20	—	—	80	4N38SR2MCT-ND‡	1.13	.88	.63
	7500	20	—	—	80	4N38SR2MTR-ND◊		340.20/1,000	

† VDE approval ▲ .4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Optoisolators

Photo Transistor Output Optoisolators *(Cont.)*

Fig.	Iso-lation Volt.	Current Transfer Ratio - Typ. (%)			VCEO	Digi-Key	Price Each		
		(Min.)	(Typ.)	(Max.)	(Max.)	Part No.	1	10	100
5	7500	20	—	—	—	H11AA1SR2MCT-ND‡ ***NEW!***	.95	.73	.53
	7500	20	—	—	—	H11AA1SR2MTR-ND◊ ***NEW!***		284.15/1,000	
	7500	20	—	—	300	H11D1SM-ND	.96	.75	.54
	7500	20	—	—	300	H11D1SR2MCT-ND‡	1.13	.88	.63
	7500	20	—	—	300	H11D1SR2MTR-ND◊		340.20/1,000	
	7500	20	—	—	300	H11D1SR2VMCT-ND‡	1.13	.88	.63
	7500	20	—	—	300	H11D1SR2VMTR-ND◊		340.20/1,000	
	7500	20	—	—	200	H11D3SM-ND	.96	.75	.54
	7500	20	—	—	200	H11D3SR2MCT-ND‡	1.13	.88	.63
	7500	20	—	—	200	H11D3SR2MTR-ND◊		340.20/1,000	
	7500	20	—	—	400	MOC8204SM-ND	1.25	1.02	.71
	7500	20	—	—	400	MOC8204SR2MCT-ND‡	1.40	1.13	.78
	7500	20	—	—	400	MOC8204SR2MTR-ND◊		436.66/1,000	
	7500	40	—	80	70	CNY17F1SM-ND	.60	.51	.38
	7500	60	—	—	100	MCT5210SM-ND	.88	.78	.62
	7500	100	—	—	30	4N35SR2MCT-ND‡	.76	.61	.46
	7500	100	—	—	30	4N35SR2MTR-ND◊		234.00/1,000	
	7500	100	—	—	60	4N29SM-ND	.63	.55	.43
	7500	100	—	—	60	4N29SR2MCT-ND‡	.87	.67	.48
	7500	100	—	—	60	4N29SR2MTR-ND◊		277.00/1,000	
	7500	100	—	—	60	4N30SM-ND	.63	.55	.43
	7500	100	—	—	60	4N30SR2MCT-ND‡	.76	.66	.52
	7500	100	—	—	60	4N30SR2MTR-ND◊		277.00/1,000	
	7500	100	—	—	100	MCT5211SR2MCT-ND‡	1.27	1.02	.71
	7500	100	—	—	100	MCT5211SR2MTR-ND◊		395.39/1,000	
	7500	120	—	—	100	MCT5201SM-ND	.88	.78	.62
	7500	120	—	—	100	MCT5201SR2MCT-ND‡	1.23	.99	.69
	7500	120	—	—	100	MCT5201SR2MTR-ND◊		382.69/1,000	
	7500	300	—	—	30	H11AG1SM-ND	1.12	.87	.63
	7500	300	—	—	30	H11AG1SR2MCT-ND‡	1.23	.99	.69
	7500	300	—	—	30	H11AG1SR2MTR-ND◊		382.69/1,000	
	7500	300	—	—	60	TIL113SM-ND	.77	.60	.43
	7500	500	—	—	60	4N32SM-ND	.62	.55	.42
	7500	500	—	—	60	H11B1SM-ND	.63	.55	.43
	7500	500	—	—	60	H11B1SR2MCT-ND‡	.75	.65	.52
	7500	500	—	—	60	H11B1SR2MTR-ND◊		272.00/1,000	
	7500	500	—	—	60	H11B1SR2VMCT-ND‡	.86	.67	.48
	7500	500	—	—	60	H11B1SR2VMTR-ND◊		276.00/1,000	
	7500	500	—	—	80	H11G2SM-ND	.96	.75	.54
	7500	500	—	—	80	H11G2SR2MCT-ND‡	1.14	.88	.63
	7500	500	—	—	80	H11G2SR2MTR-ND◊		341.99/1,000	
	7500	500	—	—	100	MOC8050TVM-ND	.63	.55	.43
	7500	1000	—	—	100	H11G1SM-ND	.96	.75	.54
	7500	1000	—	—	100	H11G1SR2MCT-ND‡	1.14	.88	.63
	7500	1000	—	—	100	H11G1SR2MTR-ND◊		341.99/1,000	
	7500	1000	—	—	100	MOC8021SR2MCT-ND‡	.77	.67	.53
	7500	1000	—	—	100	MOC8021SR2MTR-ND◊		282.00/1,000	
	7500	—	—	200	30	H11F1SM-ND	2.38	2.11	1.37
	7500	—	—	200	30	H11F1SR2MCT-ND‡	2.63	2.36	1.53
	7500	—	—	200	30	H11F1SR2MTR-ND◊		951.14/1,000	
	7500	—	—	470	15	H11F3SM-ND	2.38	2.11	1.37
	7500	—	—	470	15	H11F3SR2MCT-ND‡	2.63	2.36	1.53
	7500	—	—	470	15	H11F3SR2MTR-ND◊		951.14/1,000	
	7500	—	—	470	15	H11F3SR2VMCT-ND‡	3.16	2.83	1.83
	7500	—	—	470	15	H11F3SVM-ND	2.38	2.11	1.37
6	7500	500	—	—	80	MOC8050SR2VMCT-ND‡	.92	.80	.63
	7500	500	—	—	80	MOC8050SR2VMTR-ND◊		336.00/1,000	
7	2500	10	—	—	30	MCT62S-ND	1.02	.80	.57
	2500	19	27	50	—	HCPL0501-ND	2.02	1.80	1.16
	2500	19	27	50	—	HCPL0453-ND	2.31	2.05	1.32
	2500	19	27	50	—	6N136SDCT-ND‡ ***NEW!***	1.31	1.18	.94
	2500	19	27	50	—	6N136SDTR-ND◊ ***NEW!***		518.00/1,000	
	2500	19	27	50	—	6N136S-ND ***NEW!***	1.10	.98	.77
	2500	20	65	—	30	MOCD211M-ND	1.20	.98	.68
	2500	40	—	80	70	MOC205R2MCT-ND‡	.82	.63	.45
	2500	40	—	80	70	MOC205R2MTR-ND◊		571.55/2,500	
	2500	40	—	125	70	MOCD208M-ND	1.20	.98	.68
	2500	100	—	—	70	MOCD213M-ND	1.20	.98	.68
	2500	100	—	—	70	MOCD213R2MCT-ND‡	1.41	1.13	.79
	2500	100	—	—	70	MOCD213R2MTR-ND◊		1040.66/2,500	
	2500	100	—	—	30	MOCD217R2MCT-ND‡	1.41	1.13	.79
	2500	100	—	—	30	MOCD217R2MTR-ND◊		1040.66/2,500	
	2500	100	—	—	30	MOC217R2MCT-ND‡	.79	.61	.44
	2500	100	—	—	30	MOC217R2MTR-ND◊		531.75/2,500	
7	2500	100	—	200	70	MOC207R2MCT-ND‡	.93	.72	.52
	2500	100	—	200	70	MOC207R2MTR-ND◊		650.93/2,500	
	2500	100	—	200	70	MOCD207R2MCT-ND‡	1.41	1.13	.79
	2500	100	—	200	70	MOCD207R2MTR-ND◊		1040.66/2,500	
	2500	100	130	—	30	MOCD217M-ND	1.20	.98	.68
	2500	100	150	200	70	MOCD207M-ND	1.20	.98	.68
	2500	400	1100	—	—	6N139SDCT-ND‡	1.33	1.19	.95
	2500	400	1100	—	—	6N139SDTR-ND◊		525.00/1,000	
	2500	400	—	5000	—	HCPL0701-ND	2.06	1.83	1.18
	2500	500	—	5000	—	HCPL0731-ND ***NEW!***	4.20	3.50	2.52
	2500	500	1000	—	30	MOCD223M-ND	1.36	1.11	.77
	2500	500	1000	—	30	MOCD223R2MCT-ND‡ ***NEW!***	1.59	1.28	.89
	2500	500	1000	—	30	MOCD223R2MTR-ND◊ ***NEW!***		1176.42/2,500	
	3000	20	65	—	30	MOC211M-ND	.75	.59	.42
	3000	20	150	—	30	MOC256M-ND	1.04	.81	.58
	3000	40	60	80	70	MOC205M-ND	.75	.59	.42
	3000	50	90	—	30	MOC212M-ND	.75	.59	.42
	3000	63	94	125	70	MOC206M-ND	.75	.59	.42
	3000	100	150	200	70	MOC207M-ND	.72	.57	.41
	3000	100	140	—	30	MOC213M-ND	.75	.59	.42
	3000	100	—	—	30	MOC217M-ND	.75	.59	.42
	3000	500	1000	—	30	MOC223M-ND	.86	.67	.48
	3750	—	—	—	5	FOD8001-ND	7.36	6.14	4.46
	5000	19	27	50	—	HCPL4503SM-ND	2.28	2.02	1.30
	5000	50	—	100	70	FOD2743BSDVCT-ND‡	1.31	1.05	.73
	5000	50	—	100	70	FOD2743BSDVTR-ND◊		406.00/1,000	
	5000	100	—	200	30	FOD2741ASDVCT-ND†‡	1.80	1.44	1.00
	5000	100	—	200	30	FOD2741ASDVTR-ND†◊		560.00/1,000	
	5000	100	—	200	30	FOD2741BSDVCT-ND†‡	1.31	1.05	.73
	5000	100	—	200	30	FOD2741BSDVTR-ND†◊		406.00/1,000	
	5000	—	—	—	—	FOD3150S-ND	2.28	2.02	1.30
8	2500	7	18	50	15	6N135QT-ND	1.10	.98	.77
	2500	16	18	—	—	HCPL2530-ND	2.58	2.29	1.48
	2500	19	27	50	15	6N136QT-ND	1.10	.98	.77
	2500	19	27	—	—	HCPL2531-ND	2.58	2.29	1.48
	2500	20	—	—	30	MCT6-ND	.96	.75	.54
	2500	50	—	600	55	MCT9001-ND	1.02	.80	.57
	2500	50	—	—	30	MCT61-ND	.96	.75	.54
	2500	100	—	—	30	MCT62-ND	1.02	.80	.57
	2500	300	1300	—	7	6N138QT-ND	1.11	.99	.79
	2500	300	—	—	7	HCPL2730QT-ND	2.58	2.29	1.48
	2500	400	1100	—	18	6N139QT-ND	1.11	.99	.79
	2500	400	—	—	18	HCPL2731QT-ND	1.97	1.79	1.44
	2500	—	—	—	—	HCPL3700-ND	3.10	2.58	1.86
	5000	19	27	50	—	HCPL4503M-ND	1.68	1.37	.95
	5000	—	—	—	30	FOD3120-ND	2.91	2.58	1.66
	5000	—	—	—	30	FOD3150-ND	2.28	2.02	1.30

† VDE approval ▲ .4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel

Triac Drivers

Fig.	VDRM (V)	IT (A)	Digi-Key Part No.	Pricing 1	10	100
4	600	3	FOD410-ND	2.79	25.20	202.50
	600	3	FOD4116-ND	2.80	25.00	205.00
	800	3	FOD4108-ND	2.80	25.00	205.00
	800	3	FOD4118-ND	3.64	32.50	266.50
5	800	3	FOD4208SV-ND ***NEW!***	3.18	26.50	190.80

SCR and Triac Output Optoisolators

Fig.	Iso-lation Volt.	Max. IF Trigger (mA)	Minimum Blocking Voltage	Max. IDRM	Digi-Key Part No.	Price Each 1	10	100
2	3750	5	—	500nA	FODM3063R2CT-ND‡	1.95	1.68	1.37
	3750	5	—	500nA	FODM3063R2TR-ND◊		1880.00/2,500	
3	3750	5	—	100nA	FODM3053R2V_NF098CT-ND‡	1.22	1.02	.81
	3750	5	—	100nA	FODM3053R2V_NF098TR-ND◊		1346.63/2,500	
	3750	10	400	100nA	FODM3022R3VCT-ND‡	.95	.79	.63
	3750	10	400	100nA	FODM3022R3VTR-ND◊		267.75/500	
	3750	60	—	100nA	FODM3053V_NF098-ND ***NEW!***	1.56	1.27	.98
	3750	60	600	500nA	FODM3063-ND	1.83	1.62	1.05
	3750	60	800	500nA	FODM3082-ND	2.38	2.11	1.37
4	5000	30	600	100nA	FOD420-ND	3.61	3.23	2.09
	5000	30	800	100nA	FOD4208-ND	3.47	2.89	2.10
	5000	30	600	100nA	FOD4216-ND	3.47	2.89	2.10
	5000	30	800	100nA	FOD4218-ND	4.62	3.85	2.80

† VDE approval ‡ Cut Tape ◊ Tape and Reel

(Continued)

FAIRCHILD SEMICONDUCTOR®

Optoisolators

SCR and Triac Output Optoisolators *(Cont.)*

Fig.	Iso-lation Volt.	Max. IF Trigger (mA)	Minimum Blocking Voltage	Max. IDRM	Digi-Key Part No.	Price Each 1	10	100
4	5000	2.0	—	—	FOD420SDCT-ND‡	3.40	2.91	2.38
	5000	2.0	—	—	FOD420SDTR-ND◊	1407.00/1,000		
	5000	2.0	—	—	FOD420TV-ND	2.98	2.69	2.16
	5300	15	250	.100	MOC3010M-ND	.82	.64	.46
	5300	10	250	.100	MOC3011M-ND	.82	.64	.46
	5300	5	250	.100	MOC3012M-ND	.84	.66	.47
	5300	30	400	.100	MOC3020MFS-ND	.82	.64	.46
	5300	15	400	.100	MOC3021MFS-ND	.87	.68	.49
	5300	10	400	.100	MOC3022MFS-ND	.87	.68	.49
	5300	10	400	.100	MOC3022VM-ND†	.82	.64	.46
	5300	5	400	.100	MOC3023MFS-ND	.92	.72	.52
	5300	15	600	.100	MOC3051M-ND	1.09	.89	.62
	5300	10	600	.100	MOC3052M-ND	1.10	.90	.63
	5300	15	250	.100	MOC3031M-ND	1.18	.96	.67
	5300	10	250	.100	MOC3032M-ND	1.09	.89	.62
	5300	5	250	.100	MOC3033M-ND	1.22	1.00	.69
	5300	15	400	.100	MOC3041M-ND	1.32	1.07	.74
	5300	10	400	.100	MOC3042M-ND	1.32	1.07	.74
	5300	5	400	.100	MOC3043M-ND	1.41	1.15	.80
	5300	15	600	.500	MOC3061M-ND	1.27	1.04	.72
	5300	10	600	.500	MOC3062M-ND	1.32	1.07	.74
	5300	5	600	.500	MOC3063M-ND	1.50	1.22	.85
	5300	15	800	.500	MOC3081M-ND	1.72	1.40	.97
	5300	10	800	.500	MOC3082M-ND	1.63	1.33	.92
	5300	5	800	.500	MOC3083M-ND	1.86	1.52	1.05
	5300	5	600	.100	MOC3163M-ND	2.58	2.29	1.48
	7500	60	5300	100nA	MOC3052TVM-ND	1.09	.89	.62
	7500	60	5300	500nA	MOC3063TVM-ND	1.45	1.18	.82
5	5300	5	250	.100	MOC3012SM-ND	.84	.66	.47
	5300	5	400	.100	MOC3023SM-ND	.69	.61	.47
	5300	60	400	100nA	MOC3023SR2MCT-ND‡	1.10	.85	.61
	5300	60	400	100nA	MOC3023SR2MTR-ND◊	330.00/1,000		
	7500	5	—	500nA	MOC3063SR2VMCT-ND‡ ***NEW!***	1.74	1.39	.97
	7500	5	—	500nA	MOC3063SR2VMTR-ND◊ ***NEW!***	539.78/1,000		
	7500	60	600	100nA	MOC3052SR2VMCT-ND‡	1.02	.92	.73
	7500	60	600	100nA	MOC3052SR2VMTR-ND◊	404.00/1,000		
	7500	60	400	100nA	MOC3043SR2MCT-ND‡	1.68	1.35	.94
	7500	60	400	100nA	MOC3043SR2MTR-ND◊	523.91/1,000		
	7500	60	600	100nA	MOC3063SR2MCT-ND‡	1.68	1.35	.94
	7500	60	600	100nA	MOC3063SR2MTR-ND◊	523.91/1,000		
	7500	60	5300	100nA	MOC3021SR2MCT-ND‡	.96	.75	.54
	7500	60	5300	100nA	MOC3021SR2MTR-ND◊	289.17/1,000		
	7500	60	5300	100nA	MOC3023SR2MCT-ND‡	1.10	.85	.61
	7500	60	5300	100nA	MOC3023SR2MTR-ND◊	330.00/1,000		
	7500	60	5300	100nA	MOC3052SM-ND	1.09	.89	.62
	7500	60	5300	100nA	MOC3052SR2MCT-ND‡	1.04	.94	.74
	7500	60	5300	100nA	MOC3052SR2MTR-ND◊	411.00/1,000		
	7500	60	5300	100nA	MOC3043SM-ND	1.27	1.04	.72
	7500	60	5300	500nA	MOC3083SR2MCT-ND‡	1.84	1.47	1.03
	7500	60	5300	500nA	MOC3083SR2MTR-ND◊	571.54/1,000		

† VDE approval ‡ Cut Tape ◊ Tape and Reel

Logic Output Optoisolators

Fig.	Function	Input: LSTTL Output	15M Baud Rt. Output Configuration	Digi-Key Part No.	Price Each 1	10	100
8	Buff.	TTL	Totem Pole	HCPL2630S-ND	3.69	3.31	2.14
	Buff.	TTL	Totem Pole	FOD0710-ND	5.31	4.43	3.19
	Buff.	TTL	Totem Pole	FOD0720-ND	5.85	4.88	3.51
	Buff.	TTL	Totem Pole	FOD0721-ND	6.42	5.35	3.86

Fig.	Iso-lation Volt.	Ifon Current (Max.) mA	ICCL (Max.)	Oper. Voltage (Max.) V	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel◊ Qty.	Pricing
9	3750	5.0	10	5.5	FODM611CT-ND‡ ✔	1.98	1.59	1.11	3,000	610.00/M
	3750	5.0	10	5.5	FODM8061-ND ✔	2.42	2.14	1.38	—	—
	3750	5.0	5	5.5	FODM8071-ND ✔	3.42	3.06	1.98	—	—
4	5300	1.6	5	16	H11L1-MQT-ND	1.04	.85	.59	—	—
	5300	1.6	5	16	H11L1V-MQT-ND†	1.09	.85	.61	—	—
	5300	3.2	10	16	H11N1-MQT-ND	2.98	2.64	1.71	—	—
	5300	10	10	16	H11N3-M-ND	2.80	2.48	1.60	—	—
	7500	1.6	5	15	H11L1TVM-ND†	1.04	.85	.59	—	—
	7500	1.6	5	15	H11L1VM-ND	1.04	.85	.59	—	—
	7500	10.0	5	15	H11L2TVM-ND†	1.12	.92	.64	—	—
	7500	10.0	5	15	H11L2VM-ND†	1.04	.85	.59	—	—
	7500	60	5	16	H11L3M-ND	1.04	.85	.59	—	—
	7500	10.0	5	15	H11L2M-ND	1.04	.85	.59	—	—
5	5300	1.6	5	16	H11L1SM-ND	1.04	.85	.59	—	—
	7500	60	5	15	H11L1SR2MCT-ND‡	1.22	.98	.69	1,000	381.02
	7500	1.6	5	15	H11L1SR2VMCT-ND‡	1.22	.98	.69	1,000	381.02
	7500	1.6	5	15	H11L1SVM-ND†	1.04	.85	.59	—	—
	7500	10.0	5	15	H11L2SM-ND	1.12	.92	.64	—	—
	7500	10.0	5	15	H11L2SR2MCT-ND‡	1.22	.98	.69	1,000	381.02
	7500	10.0	5	15	H11L2SVM-ND†	1.12	.92	.64	—	—
7	2500	50	13	7.0	6N137SDCT-ND‡	1.29	1.16	.92	1,000	508.00
	2500	30	21	7.0	HCPL2631SDCT-ND‡	3.02	2.70	1.75	1,000	1091.48
	2500	50	13	5.5	HCPL0600-ND	2.88	2.59	1.67	—	—
	2500	50	15	7.0	HCPL062N-ND	6.46	5.39	3.88	—	—
	3750	50	13	5.5	HCPL0601-ND	3.54	3.17	2.06	—	—
	3750	—	21	7.0	HCPL0638-ND	3.45	2.88	2.07	—	—
	5000	1.6	7.0	2.0	FOD2200SDVCT-ND‡	3.33	2.78	2.02	1,000	1343.30

◊ For Tape and Reel change CT-ND to TR-ND. ‡ Cut Tape † VDE approval ✔ ***NEW!***

Fig.	Iso-lation Voltage	Maximum Prop. Delay (nS)	Typical CMR V/µsec.	IF (mA)	Digi-Key Part No.	Price Each 1	10	100
7	2500	100	10,000	50	6N137S-ND	1.08	.96	.76
8	2500	75	10,000	5	6N137QT-ND	1.08	.96	.76
	2500	75	10,000	5	HCPL2601QT-ND	1.83	1.63	1.05
	2500	75	10,000	5	HCPL2611-ND	2.09	1.86	1.20
	2500	75	10,000	5	HCPL2630QT-ND	3.40	3.02	1.95
	2500	75	10,000	5	HCPL2631QT-ND	2.78	2.47	1.59

Fig.	Isolation Voltage	BVCEO Minimum	Typ. ton/toff (µsec.)	Digi-Key Part No.	Price Each 1	10	100
8	2500	5	1/1	MID400-ND	3.67	3.07	2.21

FET Outputs

Fig.	Isolation Voltage	Rds ON (Ω)	Vbr (Min.)	Typ. ton/toff (µS)	Digi-Key Part No.	Price Each 1	10	100
4	4000	10	7	3,000/500	HSR312-ND	3.41	3.03	1.96
	4000	15	7	3,000/500	HSR312L-ND	3.41	3.03	1.96
8	5000	1.5	5	75/55	FOD3180S-ND	2.08	1.66	1.25
	5000	1.5	5	75/55	FOD3180SDVCT-ND‡	2.10	1.68	1.26
	5000	1.5	5	75/55	FOD3180SDVTR-ND◊	1092.00/1,000		
	5000	1.5	5	75/55	FOD3181-ND ***NEW!***	2.52	2.24	1.44
10	2500	30	6	1/5	FODB100FSCT-ND‡	2.36	2.11	1.37
	2500	30	6	1/5	FODB100FSTR-ND◊	2418.00/3,000		
	2500	30	6	1/5	FODB102CT-ND‡	2.36	2.11	1.37
	2500	30	6	1/5	FODB102TR-ND◊	2418.00/3,000		

‡ Cut Tape ◊ Tape and Reel

Panasonic® Optoisolators

Fig. 1

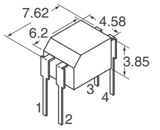

1. Anode
2. Cathode
3. Emitter
4. Collector

Fig. 2

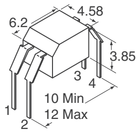

1. Anode
2. Cathode
3. Emitter
4. Collector

Circuits

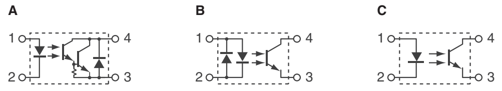

Fig.	Circuit	Isolation Voltage (Vrms)	Current Transfer Ratio	VCEO (Max.)	Typical ton/toff (µsec.)	Digi-Key Part No.	Price Each 1	10	100
1	C	5000	80 ~ 600%	80	2/3	CNC1S101-ND	.58	.47	.35
	C	5000	100 ~ 300%	80	2/3	CNC1S101R-ND	.51	.39	.29
	C	5000	200 ~ 600%	80	2/3	CNC1S101S-ND	.51	.39	.29
	C	5000	100 ~ 250%	80	2/3	CNC1S171R0LF-ND	.56	.43	.32
	C	5000	200 ~ 600%	80	2/3	CNC1S171S0LF-ND	.56	.43	.32
	B	5000	20 ~ 300%	80	4/3	CNC7S101-ND	.72	.54	.41
	B	5000	50 ~ 150%	80	4/3	CNC7S101R-ND	.77	.58	.44

Fig.	Circuit	Isolation Voltage (Vrms)	Current Transfer Ratio	VCEO (Max.)	Typical ton/toff (µsec.)	Digi-Key Part No.	Price Each 1	10	100
1	A	5000	80 ~ 240%	80	4/3	CNC7S101Y-ND	.77	.58	.44
	A	5000	1000 ~ 4000%	350	40/15	CNC2S501-ND	.85	.71	.57
	A	5000	1000 ~ 4000%	350	40/15	CNZ3731-ND	.77	.65	.52
2	C	5000	100 ~ 300%	80	2/3	CNC1S101R0LF-ND	.56	.43	.32
	C	5000	200 ~ 600%	80	2/3	CNC1S101S0LF-ND	.56	.43	.32
	C	5000	50 ~ 600%	80	2/3	CNC1S171-ND	.71	.54	.40
	C	5000	100 ~ 250%	80	2/3	CNC1S171R-ND	.51	.39	.29
	C	5000	200 ~ 600%	80	2/3	CNC1S171S-ND	.51	.39	.29

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Phototransistors

Fig.	Package	Peak Wavelength (nm)	Bandwidth (nm)	Collector Light Current Ica (mA) Typ.	View Angle (°)	On/Off Time (µs)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Vishay Part No.
1	5.0 mm	850	620 ~ 980	10	30	6/5	751-1003-ND	.96	.85	.66	—	—	BPV11
1	5.0 mm	930	900 ~ 980	9	30	6/5	751-1004-ND	.96	.85	.66	—	—	BPV11F
2	3.0 mm	850	620 ~ 980	1.5	50	2.0/2.3	751-1023-ND	.67	.56	.42	—	—	BPW85
2	3.0 mm	925	875 ~ 1000	3.2	60	2.0/2.3	751-1041-ND	.67	.57	.43	—	—	TEFT4300
3	1.8 mm	825	620 ~ 960	1	24	4.8/5	751-1011-ND	.74	.65	.50	—	—	BPW17N
4	Side View	920	850 ~ 980	2.5	60	6/5	751-1061-ND	.92	.82	.65	—	—	TEST2600
5	Side View	920	850 ~ 980	4	74	6/5	751-1042-ND	.93	.82	.63	—	—	TEKT5400S
6	TO-18	850	620 ~ 980	0.6	80	6/5	751-1018-ND	2.11	1.91	1.54	—	—	BPW76A
6	TO-18	850	620 ~ 980	1.2	80	6/5	751-1019-ND	2.11	1.91	1.54	—	—	BPW76B
6	TO-18	850	620 ~ 980	10	20	6/5	751-1020-ND	2.11	1.91	1.54	—	—	BPW77NA
6	TO-18	850	620 ~ 980	20	20	6/5	751-1021-ND	2.11	1.91	1.54	—	—	BPW77NB
7	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1052-1-ND‡	.85	.74	.58	1,000	309.00	TEMT1000
8	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1053-1-ND‡	.85	.74	.58	1,000	309.00	TEMT1020
9	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1054-1-ND‡	.85	.74	.58	1,000	309.00	TEMT1030
10	PLCC-2	830	620 ~ 980	0.5	120	2	751-1237-1-ND‡	.95	.83	.65	1,500	346.00/M	VEMT3700-GS08

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

PIN Photodiodes

Fig.	Package	Peak Wavelength (nm)	Bandwidth (nm)	Sensitivity Ira Typ. (µA)	View Angle (°)	Rise/Fall Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Vishay Part No.
1	5.0 mm	920	570 ~ 1040	70	40	2.5	751-1001-ND	.99	.87	.67	—	—	BPV10
1	5.0 mm	940	790 ~ 1050	60	40	2.5	751-1002-ND	.99	.87	.67	—	—	BPV10NF
7	1.9 mm	900	840 ~ 1050	10	30	4	751-1043-1-ND‡	.95	.83	.65	1,000	346.00	TEMD1000
8	1.9 mm	900	840 ~ 1050	10	30	4	751-1044-1-ND‡	.95	.83	.65	1,000	346.00	TEMD1020
9	1.9 mm	900	840 ~ 1050	10	30	4	751-1045-1-ND‡	.95	.83	.65	1,000	346.00	TEMD1030
11	Flat Side View	900	600 ~ 1050	50	130	100	751-1017-ND	.95	.84	.67	—	—	BPW46
11	Flat Side View	950	790 ~ 1050	45	130	100	751-1022-ND	.95	.84	.67	—	—	BPW83
12	TO-18	900	600 ~ 1050	60	24	7	751-1014-ND	3.83	3.42	2.81	—	—	BPW24R
13	Side View	950	870 ~ 1050	80	120	100	751-1006-ND	.97	.86	.68	—	—	BPV22F
13	Side View	940	790 ~ 1050	85	120	100	751-1007-ND	.97	.86	.68	—	—	BPV22NF
13	Side View	950	870 ~ 1050	63	120	70	751-1008-ND	.90	.80	.63	—	—	BPV23F
13	Side View	940	790 ~ 1050	65	120	70	751-1009-ND	.90	.80	.63	—	—	BPV23NF
14	TO-5	920	550 ~ 1040	42	100	3400/3700	751-1012-ND	5.01	4.48	3.67	—	—	BPW20RF
14	TO-5	565	420 ~ 675	9	100	3100/3000	751-1013-ND	8.83	7.95	6.54	—	—	BPW21R
15	Top View	900	600 ~ 1050	50	130	100	751-1015-ND	1.06	.94	.74	—	—	BPW34
15	Top View	950	870 ~ 1050	45	130	100	751-1000-ND	1.02	.90	.72	—	—	BP104
16	Mini SMD	900	600 ~ 1050	55	130	100	751-1046-1-ND‡	1.61	1.45	1.15	1,500	636.00/M	TEMD5010X01
16	Mini SMD	900	600 ~ 1050	35	130	100	751-1047-1-ND‡	1.53	1.37	1.09	1,500	605.00/M	TEMD5020X01
16	Mini SMD	940	790 ~ 1050	55	130	100	751-1048-1-ND‡	1.61	1.45	1.15	1,500	636.00/M	TEMD5110X01
16	Mini SMD	940	790 ~ 1050	35	130	100	751-1049-1-ND‡	1.53	1.37	1.09	—	—	TEMD5120X01

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

Infrared Emitters

Fig.	Package	Peak Wavelength (nm)	Viewing Angle (°)	Radiant Intensity Typ. (mW/sr)	Rise/Fall Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Vishay Part No.
1	5 mm	940	44	45	800	751-1202-ND	.55	.43	.30	—	—	TSAL5300
1	5 mm	940	20	130	800	751-1203-ND	.55	.43	.30	—	—	TSAL6100
1	5 mm	940	34	60	800	751-1204-ND	.55	.43	.30	—	—	TSAL6200
1	5 mm	940	50	40	800	751-1205-ND	.55	.43	.30	—	—	TSAL6400
1	5 mm	940	60	25	800	751-1206-ND	.55	.43	.30	—	—	TSAL7600
1	5 mm	870	20	180	15	751-1207-ND	1.01	.90	.71	—	—	TSFF5210
1	5 mm	870	44	70	15	751-1208-ND	1.01	.90	.71	—	—	TSFF5410
1	5 mm	890	20	140	30	751-1210-ND	.64	.54	.41	—	—	TSHF5210
1	5 mm	890	44	65	30	751-1211-ND	.64	.54	.41	—	—	TSHF5410
1	5 mm	850	20	160	20/13	751-1212-ND	1.24	1.10	.87	—	—	TSHG6200
1	5 mm	850	44	70	20/13	751-1213-ND	1.24	1.10	.87	—	—	TSHG6400
1	5 mm	830	20	160	20/13	751-1214-ND	1.24	1.10	.87	—	—	TSHG8200
1	5 mm	830	44	70	20/13	751-1215-ND	1.24	1.10	.87	—	—	TSHF8400
2	3 mm	875	40	20	600	751-1209-ND	.53	.45	.34	—	—	TSHA4400
2	3 mm	940	50	30	800	751-1201-ND	.55	.43	.30	—	—	TSAL4400
4	Side View	950	50	2.6	800	751-1233-ND	.65	.55	.41	—	—	TSSS2600
5	Side View	950	60	2 ~ 7	400/450	751-1216-ND	.86	.76	.59	—	—	TSKS5400S
7	1.9 mm	870	34	5	30	751-1217-1-ND‡	.99	.86	.68	1,000	360.00	TSMF1000
7	1.9 mm	950	24	7	800	751-1220-1-ND‡	.85	.74	.58	1,000	309.00	TSML1000
8	1.9 mm	870	34	5	30	751-1218-1-ND‡	.99	.86	.68	1,000	360.00	TSMF1020
8	1.9 mm	950	24	7	800	751-1221-1-ND‡	.85	.74	.58	1,000	309.00	TSML1020
9	1.9 mm	870	34	5	30	751-1219-1-ND‡	.99	.86	.68	1,000	360.00	TSMF1030
9	1.9 mm	950	24	7	800	751-1222-1-ND‡	.85	.74	.58	1,000	309.00	TSML1030
10	PLCC-2	950	120	4.5	800	751-1258-1-ND‡	.50	.40	.30	1,500	153.00/M	VSMS3700-GS08
10	PLCC-2	940	120	8	800	751-1257-1-ND‡	.69	.55	.42	1,500	213.00/M	VSML3710-GS08
10	PLCC-2	870	120	10	15	751-1254-1-ND‡	.84	.73	.58	1,500	307.00/M	VSMF4710-GS08
10	PLCC-2	830	120	10	25	751-1255-1-ND‡	1.31	1.18	.94	1,500	518.00/M	VSMG2700-GS08
10	PLCC-2	850	120	10	20/13	751-1256-1-ND‡	1.21	1.09	.87	—	—	VSMG3700-GS08
10	PLCC-2	890	120	10	30	751-1253-1-ND‡	.70	.61	.48	1,500	256.00/M	VSMF3710-GS08
17	TO-18	875	60	6	300	751-1234-ND	2.52	2.28	1.84	—	—	TSTA7500
17	TO-18	950	60	1.6	400	751-1235-ND	2.43	2.20	1.77	—	—	TSTS7500
18	1.8 mm	950	110	1.5	400/450	751-1026-ND	.62	.52	.39	—	—	CQY36N
18	1.8 mm	950	24	5	400/450	751-1027-ND	.62	.52	.39	—	—	CQY37N

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

Dimensions in mm

Fig. 1

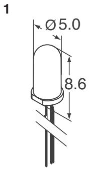

Fig. 2

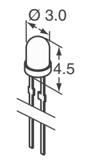

Fig. 3

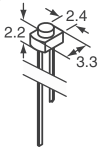

Fig. 4

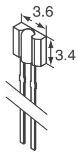

Fig. 5

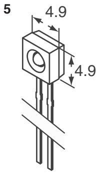

Fig. 6

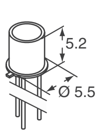

Fig. 7

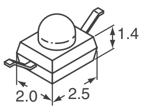

Fig. 8

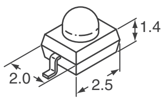

Fig. 9

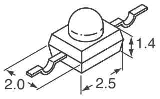

Fig. 10

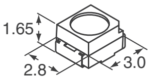

Fig. 11

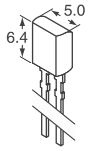

Fig. 12

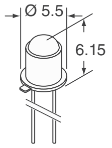

Fig. 13

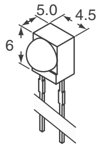

Fig. 14

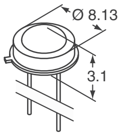

Fig. 15

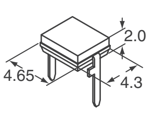

Fig. 16

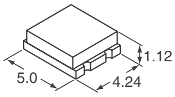

Fig. 17

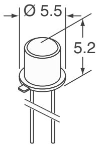

Fig. 18

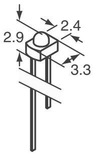

N

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistor Output Optoisolators / Photocoupler

Fig.	Pkg.	Current Transfer Ratio				Collector Breakdown V(BR)	Isolation Voltage (Vrms)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
		Min. (%)	Max. (%)	@IF (mA)	VCE (V)				1	10	100		Qty.	Pricing
1	Dip	100	1,200	1	0.5	55	5,000	TLP331F-ND◆	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5,000	TLP631F-ND◆	.75	.63	.50	—	—	—
	Dip	100	600	5	5	55	5,000	TLP631GBF-ND◆	.75	.63	.50	—	—	—
	Dip	50	600	5	5	55	4,000	TLP731D4-GRF-ND◆	1.00	.89	.70	—	—	—
	SMD	20	—	10	10	30	2,500	4N25ASHORTF-ND◆	.60	.53	.41	—	—	—
	Dip	20	—	10	10	30	2,500	4N25SHORTFT-ND◆	.57	.48	.36	—	—	—
	Dip	20	—	10	10	30	2,500	4N25SHORTFCT-ND◆†	.77	.62	.47	4N25SHORTFTR-ND◆	1,500	238.00/M
	Dip	100	—	10	10	30	2,500	4N35SHORTF-ND◆	.57	.48	.36	—	—	—
	Dip	40	—	10	0.3	70	2,500	4N36(SHORTF)-ND◆✔	.60	.53	.41	—	—	—
2	Dip	100	1,200	1	0.5	55	5,000	TLP332F-ND◆	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5,000	TLP632F-ND◆	1.07	.89	.71	—	—	—
	Dip	100	600	5	5	55	5,000	TLP632GBF-ND◆	1.24	1.11	.87	—	—	—
	Dip	50	600	5	5	55	4,000	TLP732D4-GR-LF2F-ND◆§	1.14	.95	.76	—	—	—
3	Dip	100	600	5	5	55	5,000	TLP630GBF-ND◆	.75	.63	.50	—	—	—
4	SMD	100	1,200	1	0.5	80	3,750	TLP124F-ND◆	.76	.67	.52	—	—	—
	SMD	100	1,200	1	0.5	80	3,750	TLP124FCT-ND◆†	.76	.57	.43	TLP124FTR-ND◆	3,000	247.00/M
	SMD	200	1,200	1	0.5	80	3,750	TLP124BVFCT-ND◆†	.76	.57	.43	TLP124BVFTR-ND◆	3,000	247.00/M
	SMD	50	600	5	5	80	3,750	TLP181FT-ND◆	.50	.42	.32	—	—	—
	SMD	100	600	5	5	80	3,750	TLP181GBF-ND◆	.53	.42	.32	—	—	—
	SMD	100	600	5	5	80	3,750	TLP181GBFCT-ND◆†	.53	.42	.32	TLP181GBFTR-ND◆	3,000	141.75/M
	SMD	100	300	5	5	80	3,750	TLP181GRFCT-ND◆†	.53	.42	.32	TLP181GRFTR-ND◆	3,000	141.75/M
	SMD	50	600	5	5	80	3,750	TLP285(TPFT)CT-ND◆†✔	.73	.64	.50	TLP285(TPFT)TR-ND◆✔	2,500	241.00/M
5	SMD	50	600	5	5	80	3,750	TLP131F-ND◆	1.05	.93	.74	—	—	—
	SMD	100	600	5	5	80	3,750	TLP131GBFCT-ND◆†	1.14	1.02	.81	TLP131GBFTR-ND◆	3,000	420.00/M
	SMD	100	1,200	1	0.5	80	3,750	TLP137F-ND◆	.84	.70	.56	—	—	—
6	Dip	50	600	5	5	55	5,000	TLP621FT-ND◆	.69	.61	.47	—	—	—
	Dip	200	600	5	5	55	5,000	TLP621BLTF-ND◆	.67	.56	.42	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621GBTF-ND◆	.62	.52	.39	—	—	—
	Dip	100	300	5	5	55	5,000	TLP621GRFT-ND◆	.62	.52	.39	—	—	—
	Dip	50	600	5	5	55	5,000	TLP621-2FT-ND◆	.91	.81	.64	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621-2GBFT-ND◆	1.23	1.09	.86	—	—	—
	Dip	50	600	5	5	55	5,000	TLP621-4F-ND◆	2.13	1.70	1.28	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621-4GBF-ND◆	2.64	2.38	1.92	—	—	—
	SMD	100	1,200	1	0.5	55	5,000	TLP624LF1F-ND◆	.96	.84	.65	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624F-ND◆	.96	.84	.65	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624-2F-ND◆	1.25	1.00	.75	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624-4F-ND◆	2.80	2.50	2.05	—	—	—
	Dip	100	1,200	±1	0.5	55	5,000	TLP626F-ND◆	1.23	1.09	.86	—	—	—
	Dip	200	1,200	±1	0.5	55	5,000	TLP626BVF-ND◆	1.33	1.18	.94	—	—	—
7	Dip	100	600	±5	5	55	5,000	TLP620GBF-ND◆	.72	.63	.49	—	—	—
	Dip	50	600	±5	5	55	5,000	TLP620F-ND◆	.60	.53	.41	—	—	—
	Dip	50	600	±5	5	55	5,000	TLP620-2FT-ND◆	1.26	1.12	.89	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620-2GBFT-ND◆	1.33	1.18	.94	—	—	—
	Dip	50	600	±5	5	55	5,000	TLP620-4F-ND◆	2.87	2.60	2.09	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620-4GBF-ND◆	2.08	1.88	1.51	—	—	—
	Dip	100	1,200	±1	—	55	5,000	TLP626-2F-ND◆	2.17	1.96	1.58	—	—	—
	Dip	100	1,200	±1	—	55	5,000	TLP626-4F-ND◆	4.20	3.75	3.08	—	—	—
8	SOP	100	600	5	5	80	2,500	TLP280-4GBFCT-ND◆†	1.50	1.20	.90	TLP280-4GBFTR-ND◆	2,500	768.00/M
9	SOP	100	600	5	5	80	2,500	TLP280(GB-TPFT)CT-ND◆†	.60	.45	.34	TLP280(GB-TPFT)TR-ND◆	2,500	195.00/M
10	SOP	100	600	5	5	80	2,500	TLP281-4GBFCT-ND◆†	1.82	1.64	1.30	TLP281-4GBFTR-ND◆	2,500	672.00/M
	SOP	50	600	5	5	80	2,500	TLP281-4JFCT-ND◆†	1.44	1.20	.96	TLP281-4JFTR-ND◆	2,500	624.00/M
	SOP	100	600	5	5	80	2,500	TLP281-4GBJF-ND◆	1.44	1.20	.96	—	—	—
11	SOP	100	600	5	5	80	2,500	TLP281GBFCT-ND◆†	.48	.36	.27	TLP281GBFTR-ND◆	2,500	156.00/M
	SOP	50	600	5	5	80	2,500	TLP281GRFT-ND◆	.48	.36	.27	—	—	—
	Dip	200	600	5	5	80	5,000	TLP781BLF-ND◆	.40	.32	.24	—	—	—
	Dip	100	300	5	5	80	5,000	TLP781D4-GRF-ND◆	.40	.32	.24	—	—	—
	Dip	50	600	5	5	80	5,000	TLP781F-ND◆	.40	.32	.24	—	—	—
	Dip	100	600	5	5	80	5,000	TLP781GBF-ND◆	.40	.32	.24	—	—	—
	SMD	100	600	5	5	80	5,000	TLP781GB-LF6F-ND◆	.40	.32	—	—	—	—
	SMD	100	600	5	5	80	5,000	TLP781GB-TP6FCT-ND◆†	.40	.32	.24	TLP781GB-TP6FTR-ND◆	2,000	112.00/M
	Dip	100	300	5	5	80	5,000	TLP781GRF-ND◆	.40	.32	.24	—	—	—
	Dip	100	200	5	5	80	5,000	TLP781GRLF-ND◆	.43	.34	.26	—	—	—
	SMD	100	300	5	5	80	5,000	TLP781GR-TP6FCT-ND◆†	.40	.32	.24	—	—	—
	Dip	100	300	5	5	80	5,000	TLP781FGRF-ND◆	.40	.32	.24	—	—	—
12	Dip	50	600	5	5	55	2,500	TLP504AF-ND◆	1.26	1.05	.84	—	—	—
	Dip	50	600	5	5	55	2,500	TLP504AGBF-ND◆	1.47	1.31	1.03	—	—	—
13	Dip	100	600	5	5	55	2,500	TLP504A-2GBF-ND◆	2.10	1.68	1.26	—	—	—
14	SMD	50	600	5	5	80	3,750	TLP180FCT-ND◆†	.53	.40	.30	TLP180FTR-ND◆	3,000	171.60/M
	SMD	100	600	5	5	80	3,750	TLP180GBFT-ND◆	.80	.70	.54	—	—	—
	SMD	100	600	5	5	80	3,750	TLP180GBTPLFCT-ND◆†	.53	.40	.30	TLP180GBTPLTR-ND◆	3,000	171.60/M
	SMD	100	1,200	±1	0.5	80	3,750	TLP126F-ND◆	1.05	.93	.74	—	—	—
	SMD	100	1,200	±1	0.5	80	3,750	TLP126TPRFCT-ND◆†	1.14	1.02	.81	TLP126TPRFTR-ND◆	3,000	420.00/M
15	SMD	100	600	±5	5	80	3,750	TLP130GB-ND	1.13	.94	.75	—	—	—
	SMD	100	600	±5	5	80	3,750	TLP130GBFCT-ND◆†	1.43	1.28	1.02	TLP130GBFTR-ND◆	3,000	525.00/M
16	Dip	15	—	16	—	—	2,500	TLP512(F)-ND◆✔	1.77	1.60	1.29	—	—	—
17	Dip	—	—	—	—	—	2,500	TLP591B(CF)-ND◆✔	2.95	2.66	2.14	—	—	—

◆ ***RoHS Compliant*** § VDE Approved † Cut Tape ✔ ***NEW!***

Fig. 1

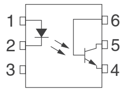

Fig. 2

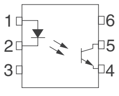

No Base Connection

Fig. 3

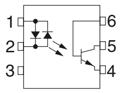

Fig. 4

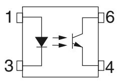

Fig. 5

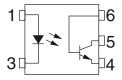

Fig. 6

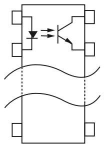

Fig. 7

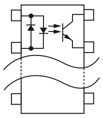

Fig. 8

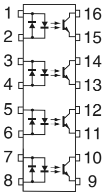

Fig. 9

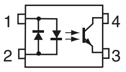

Fig. 10

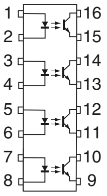

Fig. 11

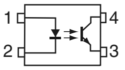

Fig. 12

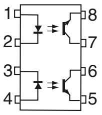

Fig. 13

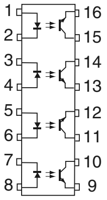

Fig. 14

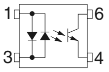

Fig. 15

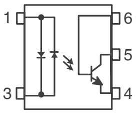

Fig. 16 ***NEW!***

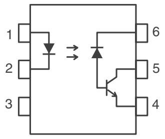

Fig. 17 ***NEW!***

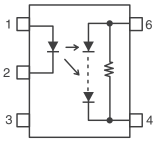

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Darlington Transistor Output

Fig. 1

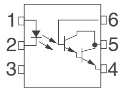

Fig. 2

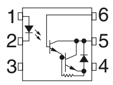

Fig. 3

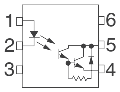

No Base Connection

Fig. 4

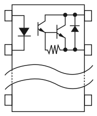

Fig. 5

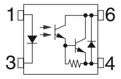

		Current Transfer Ratio			Saturation Voltage											
Fig.	Package	Min. (%)	@IF (mA)	VCE (V)	Max. (V)	@IC (mA)	@IF (mA)	Collector Break-down V(BR)	Isolation Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	Dip	500	10	10	1	2	8	30	2,500	4N32SHORTF-ND	.72	.63	.49	—	—	—
	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP371F-ND	.77	.69	.54	—	—	—
2	SMD	1,000	1	1	1.2	100	10	300	5,000	TLP371TP1FCT-ND†	.66	.55	.44	TLP371TP1FTR-ND	1,500	292.60/M
3	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP372F-ND	.78	.65	.52	—	—	—
4	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP627F-ND	.80	.70	.54	—	—	—
	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP627-2F-ND	1.68	1.49	1.18	—	—	—
	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP627-4F-ND	2.79	2.52	2.03	—	—	—
	SMD‡	1,000	1	1	1.2	100	10	300	5,000	TLP627TP1FCT-ND†	.92	.80	.63	TLP627TP1FTR-ND	1,000	279.30
5	SMD	1,000	1	1	1.2	100	10	300	2,500	TLP127FCT-ND†	1.06	.96	.76	TLP127FTR-ND	3,000	392.00/M

† Cut Tape ‡ Lead form SMD

Thyristor Output Optoisolators

Fig. 1

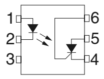

Fig. 2

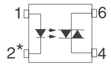

* Pin 3 for TLP160 and TLP260

Fig. 3

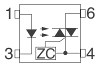

Fig. 4

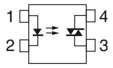

Fig. 5

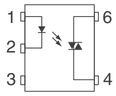

Fig. 6 ***NEW!***

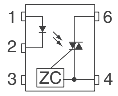

Fig. 7 ***NEW!***

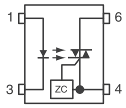

Fig.	Package	LED Trigger Current Max. (mA)	dv/dt Typical (V/μs)	Blocking Voltage	Isolation Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	Dip	10	5 Min.	600	4,000	TLP748JD4F-ND‡	1.29	1.08	.86	—	—	—
	Dip	10	5 Min.	600	4,000	TLP748JF-ND‡	1.26	1.05	.84	—	—	—
	SMD▼	10	5 Min.	600	4,000	TLP748JTP1FCT-ND†‡	1.60	1.43	1.14	TLP748JTP1FTR-ND‡	1,500	630.00/M
2	SMD	10	500	600	2,500	TLP160JFCT-ND†	.75	.63	.50	TLP160JFTR-ND	3,000	325.00/M
	Dip	5	500	400	5,000	TLP3023SFT-ND	.92	.81	.63	—	—	—
	SMD	10	500	400	2,500	TLP160GFCT-ND†	.80	.60	.45	TLP160GFTR-ND	3,000	260.00/M
	SOP	10	500	600	3,000	TLP260JTPRFCT-ND†	1.32	1.14	.90	TLP260JTPRFTR-ND	3,000	420.00/M
	Dip	10	500	600	5,000	TLP3052SF-ND	.88	.78	.62	—	—	—
	SMD	10	500	400	2,500	TLP161GF-ND	.90	.75	.60	—	—	—
	SMD	10	500	600	2,500	TLP161JF-ND	1.05	.93	.74	—	—	—
	SMD	10	500	600	2,500	TLP161JFCT-ND†	1.14	1.02	.81	TLP161JFTR-ND	3,000	420.00/M
	Dip	10	500	400	5,000	TLP3042SF-ND§	.92	.81	.63	—	—	—
	Dip	5	500	400	5,000	TLP3043SF-ND§	.96	.84	.65	—	—	—
	Dip	10	500	600	5,000	TLP3062SCFT-ND§	.91	.81	.64	—	—	—
3	SMD	3	500	600	2,500	TLP168JFCT-ND†	1.63	1.47	1.17	TLP168JFTR-ND	3,000	602.00/M
4	Dip	10	500	400	2,500	TLP525GF-ND	1.05	.93	.74	—	—	—
	Dip	10	500	400	2,500	TLP525G-2F-ND	1.50	1.20	.90	—	—	—
	Dip	10	500	600	5,000	TLP360JF-ND	.88	.66	.50	—	—	—
	Dip	10	500	600	5,000	TLP361J(F)-ND	.75	.63	.50	—	—	—
5	SMD▼	5	500	400	5,000	TLP3023TP1SFCT-ND†	1.06	.92	.72	TLP3023TP1SFTR-ND	1,500	384.00/M
	Dip	10	500	600	5,000	TLP3052D4SCFT-ND	.95	.84	.67	—	—	—
	Dip	5	500	600	5,000	TLP3063SF-ND§	.95	.84	.67	—	—	—
	SMD	5	500	600	5,000	TLP3063TP1SCFTCT-ND§†	1.06	.96	.76	TLP3063TP1SCFTTR-ND§	1,500	420.00/M
	Dip	3	500	600	5,000	TLP3064SCFT-ND§	1.38	1.23	.97	—	—	—
6	SMD	10	500	800	5,000	TLP3082(SCFT)CT-ND§† ***NEW!***	1.71	1.53	1.22	TLP3082(SCFT)TR-ND§ ***NEW!***	2,000	630.00/M
	Dip	10	2,000	800	5,000	TLP3782(SCFT)-ND§ ***NEW!***	1.18	1.06	.84	—	—	—
	Dip	5	2,000	800	5,000	TLP3783(SCFT)-ND§ ***NEW!***	1.18	1.06	.84	—	—	—
7	SMD	10	500	600	2,500	TLP166J(V4CF)-ND§ ***NEW!***	1.40	1.24	.98	—	—	—

† Cut Tape § Zero Crossing ‡ SCR Output ▼ Lead form SMD

IC Output Optoisolators / Photocouplers

Fig. 1
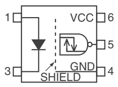

Fig. 2
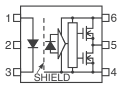

Fig. 3
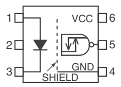

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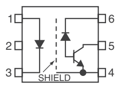

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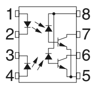

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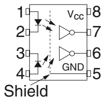

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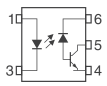

Fig. 8
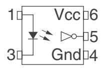

Fig. 9
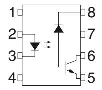

Fig. 10
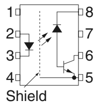

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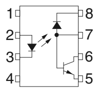

Fig. 12
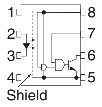

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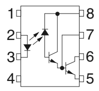

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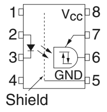

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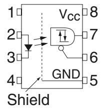

Fig. 16 ***NEW!***
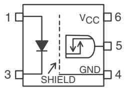

Fig. 17 ***NEW!***
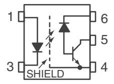

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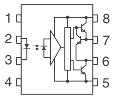

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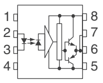

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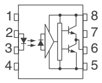

Fig. 21
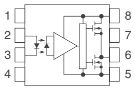

Fig. 22 ***NEW!***
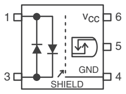

Fig. 23 ***NEW!***
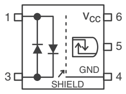

Fig. 24 ***NEW!***
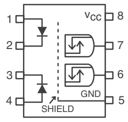

Fig. 25 ***NEW!***
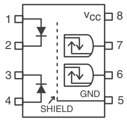

Fig. 26 ***NEW!***
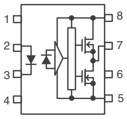

Fig. 27 ***NEW!***
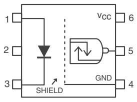

Fig.	Package Type	Features	Data Rate (Typical)	Propagation Delay (Typical)	Isolation Voltage (Vrms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Toshiba Part No.
1	6-MFSOP	Input Threshold Current	—	150ns	3,750	TLP108(F)-ND▲ ***NEW!***	2.36	1.89	1.47	—	—	—	TLP108(F)
	6-MFSOP	High Speed Data Transfer	50MBd	—	3,750	TLP117(F)-ND▲ ***NEW!***	2.14	1.71	1.33	—	—	—	TLP117(F)
	6-SDIP	Buffer Logic	—	120ns	5,000	TLP718(F)-ND▲ ***NEW!***	2.25	1.80	1.35	—	—	—	TLP718(F)
2	6-SDIP	Low Power IGBT	—	0.2µs	5,000	TLP701FCT-ND	1.25	1.00	.75	TLP701FTR-ND	1,500	650.00/M	TLP701(TP,F)
	6-SDIP	Low Power IGBT	—	250ns	5,000	TLP705FCT-ND	1.50	1.20	.90	TLP705FTR-ND	1,500	780.00/M	TLP705(TP,F)
	6-SDIP	Low Power IGBT	—	500ns‡	5,000	TLP700(F)-ND▲ ***NEW!***	1.98	1.59	1.24	—	—	—	TLP700(F)
3	6-SDIP	Invert Logic	—	250ns	5,000	TLP702(TPF)CT-ND	1.80	1.44	1.08	—	—	—	TLP702(TP,F)
	6-SDIP	High Speed Data Transfer	20MBd	—	5,000	TLP716(TPF)CT-ND	1.13	.90	.70	TLP716(TPF)TR-ND	1,500	650.00/M	TLP716(TP,F)
4	6-SDIP	High Isolation	—	0.8µs‡	5,000	TLP719(TPF)CT-ND	1.25	1.00	.75	TLP719(TPF)TR-ND	1,500	650.00/M	TLP719(TP,F)
5	8-DIP	Dual Channel	—	0.3µs	2,500	TLP2530F-ND▲	1.20	1.00	.80	—	—	—	TLP2530(F)
	8-DIP	Dual Channel	—	0.3µs	2,500	TLP2531F-ND▲	.90	.72	.56	—	—	—	TLP2531(F)
6	8-DIP	Dual Channel	10Mbit/s	—	2,500	TLP2630F-ND▲	1.65	1.32	.99	—	—	—	TLP2630(F)
	8-DIP	High Speed Data Transfer	10Mbit/s	—	2,500	TLP2631F-ND▲	1.65	1.32	.99	—	—	—	TLP2631(F)
	8-DIP§	High Speed Data Transfer	10Mbit/s	—	2,500	TLP2631TP1FCT-ND	2.31	1.98	1.62	TLP2631TP1FTR-ND	1,500	957.00/M	TLP2631(TP1,F)
7	5-MSOP	High Speed Data Transfer	—	0.8µs‡	2,500	TLP112AFCT-ND	1.79	1.53	1.25	—	—	—	TLP112A(TPR,F)
8	5-MSOP	High Speed Data Transfer	10Mbit/s	—	2,500	TLP115FCT-ND	2.25	1.80	1.40	—	—	—	TLP115(TPR,F)
9	8-DIP	High Speed Data Transfer	—	0.3µs	2,500	TLP550F-ND▲	1.71	1.54	1.24	—	—	—	TLP550(F)
10	8-DIP	High CMR	—	0.2µs	2,500	TLP559F-ND▲	1.88	1.50	1.13	—	—	—	TLP559(F)
11	8-DIP	High Speed Data Transfer	—	0.2µs	2,500	6N135TF-ND▲	1.40	1.24	.98	—	—	—	6N135(F)
	8-DIP	High Speed Data Transfer	—	0.2µs	2,500	6N136TF-ND▲	1.12	1.00	.79	—	—	—	6N136(F)
12	8-DIP	High Speed Data Transfer	10Mbit/s	—	2,500	6N137TF-ND▲	1.12	1.00	.79	—	—	—	6N137(F)
13	8-DIP	High CTR, High Speed	—	5µs	2,500	6N138TF-ND▲	1.26	1.12	.89	—	—	—	6N138(F)
	8-DIP	High CTR, High Speed	—	1µs	2,500	6N139TF-ND▲	.96	.80	.64	—	—	—	6N139(F)
14	8-DIP	Invert Logic	—	250ns	2,500	TLP558F-ND▲	3.60	2.88	2.24	—	—	—	TLP558(F)
15	8-DIP	Low Input Current	—	235ns	2,500	TLP2200F-ND▲	1.35	1.13	.90	—	—	—	TLP2200(F)
16	6-MFSOP	Input Threshold Current	—	150ns	3,750	TLP105(F)-ND▲ ***NEW!***	2.36	1.89	1.47	—	—	—	TLP105(F)
	6-SOP	High Speed Data Transfer	20MBd	—	3,750	TLP116A(E)-ND▲ ***NEW!***	2.93	2.34	1.82	—	—	—	TLP116A(E)
	6-SDIP	High Speed Data Transfer	—	120ns	5,000	TLP715(F)-ND▲ ***NEW!***	2.25	1.80	1.35	—	—	—	TLP715(F)
17	6-SOP	High Temperature	—	0.8µs‡	3,750	TLP109(E)-ND▲ ***NEW!***	1.25	1.00	.75	—	—	—	TLP109(E)
18	8-DIP	High Speed Data Transfer	—	1µs	2,500	TLP557F-ND▲	1.80	1.44	1.08	—	—	—	TLP557(F)
19	8-DIP	Medium Power IGBT	—	0.15µs	2,500	TLP250LF1F-ND▲	2.48	2.24	1.80	—	—	—	TLP250(LF1,F)
	8-DIP	Medium Power IGBT	—	0.15µs	2,500	TLP250TP1FCT-ND	1.45	1.16	.87	TLP250TP1FTR-ND	1,500	754.00/M	TLP250(TP1,F)
	8-DIP	Medium Power IGBT	—	0.5µs	2,500	TLP250(F)-ND▲ ***NEW!***	1.30	1.04	.78	—	—	—	TLP250(F)
20	8-DIP	Low Power IGBT	—	0.25µs	2,500	TLP251FCT-ND	1.53	1.22	.92	TLP251FTR-ND	1,500	793.00/M	TLP251(F)
	8-DIP	Low Power IGBT	—	0.25µs	2,500	TLP251F-ND▲	1.40	1.12	.84	—	—	—	TLP251(F)
21	8-DIP	Medium Power IGBT	—	260ns	3,750	TLP350TP1FCT-ND	1.38	1.10	.83	TLP350TP1FTR-ND	1,500	715.00/M	TLP350(TP1,F)
	8-DIP	Medium Power IGBT	—	260ns	3,750	TLP350F-ND▲	1.38	1.10	.83	—	—	—	TLP350(F)
	8-DIP	Low Power IGBT	—	700ns‡	3,750	TLP351F-ND▲ ***NEW!***	1.38	1.10	.83	—	—	—	TLP351(F)
22	6-MFSOP	Buffer Logic Type	—	150ns	3,750	TLP2095(F)-ND▲ ***NEW!***	4.20	3.75	3.08	—	—	—	TLP2095(F)
23	6-MFSOP	Inverter Logic Type	—	150ns	3,750	TLP2098(F)-ND▲ ***NEW!***	4.20	3.75	3.08	—	—	—	TLP2098(F)
24	8-SOIC	Buffer Logic Output	—	150ns	2,500	TLP2105(F)-ND▲ ***NEW!***	3.36	3.00	2.46	—	—	—	TLP2105(F)
25	8-SOIC	Inverting Logic Output	—	150ns	2,500	TLP2108(F)-ND▲ ***NEW!***	3.36	3.00	2.46	—	—	—	TLP2108(F)
	8-SOIC	Inverting Logic	—	75ns‡	2,500	TLP2116(F)-ND▲ ***NEW!***	2.86	2.55	2.10	—	—	—	TLP2116(F)
	8-SOIC	Inverting Logic Output	—	75ns‡	2,500	TLP2166A(F)-ND▲ ***NEW!***	3.36	3.00	2.46	—	—	—	TLP2166A(F)
26	8-DIP	Industrial Inverter	—	230ns	3,750	TLP358(F)-ND▲ ***NEW!***	2.42	2.19	1.76	—	—	—	TLP358(F)
	8-DIP	Industrial Inverter	—	230ns	3,750	TLP358H(F)-ND▲ ***NEW!***	2.42	2.19	1.76	—	—	—	TLP358H(F)
27	8-DIP	Inverter Logic Type	—	260ns	5,000	TLP702(F)-ND▲ ***NEW!***	1.55	1.40	1.13	—	—	—	TLP702(F)

§ Lead form SMD ‡ Maximum reading ▲ Tube

Photovoltaic Couplers

Fig. 1
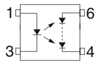

Fig. 2
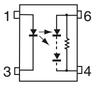

Fig.	Pkg.	Short Current Min. (uA)	@IF (mA)	Open Voltage Typ. (V)	Switching Time (@UF=20 mA, CL=1000pF) T on (ms)	T off (ms)	Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	MFSOP	12	10	8.0	0.2	2.0	2,500	TLP190BF-ND	1.69	1.35	1.05	—	—	—
	MFSOP	12	10	8.0	0.2	1.0	2,500	TLP190BUCFCT-ND†✔	1.69	1.35	1.05	TLP190BUCFTR-ND✔	3,000	960.00/M
2	MFSOP	24	20	8.0	0.2	2.0	2,500	TLP191BF-ND	2.14	1.71	1.33	—	—	—
	MFSOP	24	20	8.0	0.2	2.0	2,500	TLP191BFCT-ND†	2.38	1.90	1.43	TLP191BFTR-ND	3,000	1216.00/M

† Cut Tape ✔ ***NEW!***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

*i*Coupler® Digital Isolators

*i*Coupler isolation technology combines the dc isolation properties of microtransformers with semiconductor processing techniques to provide performance, power and integration benefits superior to those offered by traditional optocoupler technology. *i*Coupler components operate at higher data rates, provide better timing accuracy and common-mode transient immunity and operate at lower power levels than optocouplers. They operate over wider temperature and supply voltage ranges than their optical competition. The *i*Coupler technology rescues modern designs from the poorly controlled, temperature sensitive and time-dependent current transfer characteristics of standard optocouplers.

Supply Voltage	Package Type	Maximum Data Rate Mbps	Digi-Key Part No.	Price Each			T & R Pricing† 1,000
				1	25	100	
Single Channel							
3.0/5.5	8-SOIC	25	ADUM1100AR-RL7CT-NDΔ	4.23	3.39	2.64	—
3.0/5.5	8-SOIC	25	ADUM1100ARZ-RL7CT-ND◆Δ	3.67	2.94	2.29	2078.25
3.0/5.5	8-SOIC	100	ADUM1100BRZ-RL7CT-ND◆Δ	4.19	3.35	2.61	2371.50
3.0/5.5	8-SOIC	100	ADUM1100URZ-ND◆	5.58	4.47	3.77	—
3.3/5.0	8-SOIC	25	ADUM3100ARZ-ND◆	3.85	3.08	2.40	—
3.3/5.0	8-SOIC	100	ADUM3100BRZ-ND◆	4.41	3.53	2.75	—
Dual Channel — RoHS Compliant							
2.7/5.5	8-SOIC	1	ADUM1200ARZ-RL7CT-NDΔ	2.75	2.20	1.71	1555.50
2.7/5.5	8-SOIC	10	ADUM1200BRZ-RL7CT-NDΔ	4.01	3.21	2.50	2269.50
2.7/5.5	8-SOIC	25	ADUM1200CRZ-RL7CT-NDΔ	5.56	4.45	3.46	3149.25
2.7/5.5	8-SOIC	1	ADUM1200WSRZ-ND	3.29	2.63	2.05	—
2.7/5.5	8-SOIC	10	ADUM1210BRZ-RL7CT-NDΔ	4.01	3.21	2.50	2269.50
2.7/5.5	8-SOIC	1	ADUM3200ARZ-ND	2.88	2.31	1.80	—
2.7/5.5	8-SOIC	10	ADUM3200BRZ-ND	4.21	3.37	2.62	—
2.7/5.5	8-SOIC	1	ADUM3210ARZ-ND ***NEW!***	2.33	1.86	1.40	—
3.0/5.0	8-SOIC	10	ADUM3210BRZ-RL7CT-NDΔ	3.04	2.43	1.89	1721.25
3.0/5.0	8-SOIC	10	ADUM3210TRZ-RL7CT-NDΔ	4.59	3.68	2.86	2601.00
2.7/5.5	8-SOIC	1	ADUM3211ARZ-ND ***NEW!***	2.33	1.86	1.40	—
2.7/5.5	8-SOIC	10	ADUM3211BRZ-ND ***NEW!***	3.04	2.43	1.89	—
2.7/5.5	8-SOIC	10	ADUM3211TRZ-ND ***NEW!***	4.59	3.68	2.86	—
2.7/5.5	8-SOIC	1	ADUM1201ARZ-RL7CT-NDΔ	2.75	2.20	1.71	1555.50
2.7/5.5	8-SOIC	10	ADUM1201BRZ-RL7CT-NDΔ	4.01	3.21	2.50	2269.50
2.7/5.5	8-SOIC	25	ADUM1201CRZ-RL7CT-NDΔ	5.56	4.45	3.46	3149.25
2.7/5.5	8-SOIC	10	ADUM1201WTRZ-ND	4.82	3.86	3.00	—
2.7/5.5	8-SOIC	25	ADUM1201WURZ-ND	5.92	4.74	4.00	—
2.7/5.5	8-SOIC	1	ADUM3201ARZ-ND	2.88	2.31	1.80	—
2.7/5.5	8-SOIC	10	ADUM3201BRZ-ND	4.21	3.37	2.62	—
2.7/5.5	8-SOIC	25	ADUM3201CRZ-ND	5.20	4.16	3.51	—
4.5/5.5	16-SOIC	10	ADUM1233BRWZ-ND	3.58	2.87	2.23	—
4.5/5.5	16-SOIC	10	ADUM1234BRWZ-ND	3.58	2.87	2.23	—
3.0/5.5	8-SOIC	1	ADUM1250ARZ-ND	5.45	4.36	3.39	—
3.0/5.5	8-SOIC	1	ADUM1250SRZ-ND ***NEW!***	6.04	4.84	4.08	—
3.0/5.5	8-SOIC	1	ADUM1251ARZ-ND	4.93	3.95	3.07	—
3.0/5.5	8-SOIC	1	ADUM3220ARZ-RL7CT-NDΔ ***NEW!***	4.14	3.32	2.58	2346.00
3.0/5.0	16-SOIC	1	ADUM2200ARWZ-ND	3.76	3.01	2.34	—
3.0/5.0	16-SOIC	10	ADUM2200BRWZ-ND	5.38	4.31	3.35	—
3.0/5.0	16-SOIC	1	ADUM2201ARWZ-ND	3.74	2.99	2.33	—
3.0/5.0	16-SOIC	10	ADUM2201BRWZ-ND	5.40	4.32	3.36	—
3.0/5.5	16-SOIC	1	ADUM2250ARWZ-ND	6.00	4.80	4.05	—
3.0/5.5	16-SOIC	1	ADUM2251ARWZ-ND	5.54	4.44	3.74	—
4.5/5.5	8-SOIC	1	ADUM5240ARZ-ND	5.98	4.79	4.04	—
4.5/5.5	8-SOIC	1	ADUM5241ARZ-ND	5.98	4.79	4.04	—
4.5/5.5	8-SOIC	1	ADUM5241ARZ-RL7CT-NDΔ	5.98	4.79	4.04	3737.50
4.5/5.5	8-SOIC	1	ADUM5242ARZ-ND	5.98	4.79	4.04	—
4.5/5.5	8-SOIC	1	ADUM5242ARZ-RL7CT-NDΔ	5.98	4.79	4.04	3737.50
Triple Channel — RoHS Compliant							
2.7/5.5	16-SOIC	1	ADUM1300ARWZ-RLCT-NDΔ	3.67	2.94	2.29	2078.25
2.7/5.5	16-SOIC	10	ADUM1300BRWZ-ND	5.51	4.41	3.43	—
2.7/5.5	16-SOIC	90	ADUM1300CRWZ-ND	7.38	5.91	4.99	—
2.7/5.5	16-SOIC	90	ADUM3300ARWZ-ND	3.85	3.08	2.40	—
2.7/5.5	16-SOIC	90	ADUM3300BRWZ-ND	5.14	4.12	3.47	—
2.7/5.5	16-SOIC	90	ADUM3300CRWZ-ND	7.76	6.21	5.24	—
2.7/5.5	16-SOIC	10	ADUM1301BRWZ-ND	5.51	4.41	3.43	—
2.7/5.5	16-SOIC	90	ADUM1301CRWZ-ND	7.38	5.91	4.99	—
2.7/5.5	16-SOIC	1	ADUM1301ARWZ-RLCT-NDΔ	3.67	2.94	2.29	2078.25
2.7/5.5	16-SOIC	1	ADUM1301WSRWZ-ND	4.19	3.35	2.61	—
2.7/5.5	16-SOIC	90	ADUM3301ARWZ-ND	3.85	3.08	2.40	—
3.0/5.0	16-SOIC	1	ADUM1310ARWZ-ND	3.04	2.43	1.89	—
3.0/5.0	16-SOIC	50	ADUM1311BRWZ-ND	4.48	3.59	2.79	—
3.0/5.0	16-SOIC	100	ADUM1311ARWZ-ND	3.04	2.43	1.89	—
Quad Channel — RoHS Compliant							
2.7/5.5	16-SOIC	1	ADUM1400ARWZ-RLCT-NDΔ	4.88	3.91	3.04	2766.75
2.7/5.5	16-SOIC	10	ADUM1400BRWZ-RLCT-NDΔ	6.50	5.20	4.39	4062.50
2.7/5.5	16-SOIC	90	ADUM1400CRWZ-RLCT-NDΔ	8.74	7.00	5.90	5462.50
2.7/5.5	16-SOIC	1	ADUM1400WSRWZ-ND	5.02	4.02	3.39	—
2.7/5.5	16-SOIC	1	ADUM2400ARWZ-ND	6.40	5.12	4.32	—
2.7/5.5	16-SOIC	10	ADUM2400BRWZ-ND	9.32	7.46	6.30	—
2.7/5.5	16-SOIC	90	ADUM2400CRWZ-ND	10.01	9.02	8.00	—
2.7/5.5	16-SOIC	90	ADUM3400ARWZ-ND	5.13	4.11	3.20	—
2.7/5.5	16-SOIC	90	ADUM3400BRWZ-ND	6.84	5.48	4.62	—
2.7/5.5	16-SOIC	90	ADUM3400CRWZ-ND	9.18	7.35	6.20	—
3.0/5.5	16-SOIC	90	ADUM3440CRWZ-ND	7.08	5.67	4.78	—
2.7/5.5	16-SOIC	1	ADUM1402ARWZ-RLCT-NDΔ	4.88	3.91	3.04	2766.75
2.7/5.5	16-SOIC	10	ADUM1402BRWZ-RLCT-NDΔ	6.50	5.20	4.39	4062.50
2.7/5.5	16-SOIC	90	ADUM1402CRWZ-RLCT-NDΔ	8.74	7.00	5.90	5462.50
2.7/5.5	16-SOIC	1	ADUM1402WSRWZ-ND	5.02	4.02	3.39	—
2.7/5.5	16-SOIC	10	ADUM1402WTRWZ-ND	7.50	6.00	5.07	—
2.7/5.5	16-SOIC	1	ADUM2402ARWZ-ND	6.40	5.12	4.32	—
2.7/5.5	16-SOIC	10	ADUM2402BRWZ-ND	9.32	7.46	6.30	—
2.7/5.5	16-SOIC	90	ADUM2402CRWZ-ND	10.01	9.02	8.00	—
2.7/5.5	16-SOIC	90	ADUM3402ARWZ-ND	5.13	4.11	3.20	—
2.7/5.5	16-SOIC	90	ADUM3402BRWZ-ND	6.84	5.48	4.62	—
2.7/5.5	16-SOIC	90	ADUM3402CRWZ-ND	9.18	7.35	6.20	—
3.0/5.0	16-SOIC	1	ADUM1412ARWZ-ND	3.78	3.03	2.36	—
3.0/5.0	16-SOIC	10	ADUM1412BRWZ-ND	5.49	4.40	3.42	—
2.7/5.5	16-SOIC	1	ADUM1401ARWZ-RLCT-NDΔ	4.88	3.91	3.04	2766.75
2.7/5.5	16-SOIC	10	ADUM1401BRWZ-RLCT-NDΔ	6.50	5.20	4.39	4062.50
2.7/5.5	16-SOIC	90	ADUM1401CRWZ-RLCT-NDΔ	8.74	7.00	5.90	5462.50
2.7/5.5	16-SOIC	1	ADUM1401WSRWZ-ND	5.02	4.02	3.39	—
2.7/5.5	16-SOIC	10	ADUM1401WTRWZ-ND	7.50	6.00	5.07	—
2.7/5.5	16-SOIC	1	ADUM2401ARWZ-ND	6.40	5.12	4.32	—
2.7/5.5	16-SOIC	10	ADUM2401BRWZ-ND	9.32	7.46	6.30	—
2.7/5.5	16-SOIC	90	ADUM2401CRWZ-ND	10.01	9.02	8.00	—
2.7/5.5	16-SOIC	90	ADUM3401ARWZ-ND	5.13	4.11	3.20	—
2.7/5.5	16-SOIC	90	ADUM3401BRWZ-ND	6.84	5.48	4.62	—
2.7/5.5	16-SOIC	90	ADUM3401CRWZ-ND	9.18	7.35	6.20	—
2.7/5.5	16-SOIC	1	ADUM1411ARWZ-ND	3.78	3.03	2.36	—
2.7/5.5	16-SOIC	10	ADUM1411BRWZ-ND	5.49	4.40	3.42	—
3.0/5.5	16-SOIC	90	ADUM3441CRWZ-ND	7.08	5.67	4.78	—
3.0/5.5	16-SOIC	90	ADUM3442CRWZ-ND	7.08	5.67	4.78	—
3.0/5.0	16-SOIC	1	ADUM1410ARWZ-ND	3.78	3.03	2.36	—
3.0/5.0	16-SOIC	10	ADUM1410BRWZ-ND	5.49	4.40	3.42	—
4.5/5.5	28-SOIC	5	ADUM1420BRWZ-ND	5.22	4.18	3.25	—
2.7/5.5	16-SOIC	1	ADUM4400ARWZ-ND ***NEW!***	6.72	5.38	4.54	—
2.7/5.5	16-SOIC	90	ADUM4400CRWZ-ND ***NEW!***	10.51	9.47	8.40	—
2.7/5.5	16-SOIC	1	ADUM4401ARWZ-ND ***NEW!***	6.72	5.38	4.54	—
2.7/5.5	16-SOIC	10	ADUM4401BRWZ-ND ***NEW!***	9.78	7.83	6.61	—
2.7/5.5	16-SOIC	90	ADUM4401CRWZ-ND ***NEW!***	10.51	9.47	8.40	—
2.7/5.5	16-SOIC	1	ADUM4402ARWZ-ND ***NEW!***	6.72	5.38	4.54	—
2.7/5.5	16-SOIC	10	ADUM4402BRWZ-ND ***NEW!***	9.78	7.83	6.61	—
2.7/5.5	16-SOIC	90	ADUM4402CRWZ-ND ***NEW!***	10.51	9.47	8.40	—
3.0/5.5	16-QSOP	1	ADUM7440ARQZ-ND ***NEW!***	3.40	2.72	2.12	—
3.0/5.5	16-QSOP	25	ADUM7440CRQZ-ND ***NEW!***	4.91	3.93	3.06	—
3.0/5.5	16-QSOP	1	ADUM7441ARQZ-ND ***NEW!***	3.40	2.72	2.12	—
3.0/5.5	16-QSOP	25	ADUM7441CRQZ-ND ***NEW!***	4.91	3.93	3.06	—
3.0/5.5	16-QSOP	1	ADUM7442ARQZ-ND ***NEW!***	3.40	2.72	2.12	—
3.0/5.5	16-QSOP	25	ADUM7442CRQZ-ND ***NEW!***	4.91	3.93	3.06	—
5-Channel — RoHS Compliant							
4.5/5.5	16-SOIC	10	ADUM1510BRWZ-ND	9.08	7.27	6.13	—
Single Channel Isolated DC-DC Converter — RoHS Compliant							
3.3/5.0	16-SOIC	—	ADUM5000ARWZ-ND	6.32	5.06	4.27	—
Dual Channel, Half Bridge Driver – 1MHz Switching Speed — RoHS Compliant							
4.5/5.5	16-SOIC	—	ADUM5230ARWZ-ND	5.11	4.09	3.18	—
4.5/5.5	16-SOIC	—	ADUM6132ARWZ-ND	4.77	3.82	2.97	—
4.5/5.5	16-SOIC	—	ADUM7234BRZ-RL7CT-NDΔ ***NEW!***	3.31	2.65	2.06	1874.25
Dual Channel, with Integrated DC-DC Converter — RoHS Compliant							
3.0/5.0	16-SOIC	1	ADUM5200ARWZ-ND	8.18	6.55	5.53	—
3.0/5.0	16-SOIC	25	ADUM5200CRWZ-ND	9.32	7.46	6.30	—
3.0/5.0	16-SOIC	1	ADUM5201ARWZ-ND	8.18	6.55	5.53	—
3.0/5.0	16-SOIC	25	ADUM5201CRWZ-ND	9.32	7.46	6.30	—
3.0/5.0	16-SOIC	1	ADUM5202ARWZ-ND	8.18	6.55	5.53	—
3.0/5.0	16-SOIC	25	ADUM5202CRWZ-ND	9.32	7.46	6.30	—
Quad Channel, with Integrated DC-DC Converter — RoHS Compliant							
3.3/5.0	16-SOIC	1	ADUM5401ARWZ-ND	8.43	7.59	6.73	—
3.3/5.0	16-SOIC	25	ADUM5401CRWZ-ND	10.26	9.24	8.20	—
5.0	16-SOIC	25	ADUM5401WCRWZ-ND ***NEW!***	11.31	10.19	9.04	
3.3/5.0	16-SOIC	1	ADUM5402ARWZ-ND	8.43	7.59	6.73	—
3.3/5.0	16-SOIC	25	ADUM5402CRWZ-ND	10.26	9.24	8.20	—
5.0	16-SOIC	25	ADUM5402WCRWZ-ND ***NEW!***	11.31	10.19	9.04	
3.3/5.0	16-SOIC	1	ADUM5403ARWZ-ND	8.43	7.59	6.73	—
3.3/5.0	16-SOIC	25	ADUM5403CRWZ-ND	10.26	9.24	8.20	—
5.0	16-SOIC	25	ADUM5403WCRWZ-ND ***NEW!***	11.31	10.19	9.04	
3.3/5.0	16-SOIC	1	ADUM5404ARWZ-ND	8.43	7.59	6.73	—
3.3/5.0	16-SOIC	25	ADUM5404CRWZ-ND	10.26	9.24	8.20	—
5.0/5.0	16-SOIC	1	ADUM5400ARWZ-ND	8.43	7.59	6.73	—
5.0/5.0	16-SOIC	25	ADUM5400CRWZ-ND	10.26	9.24	8.20	—
3.3/5.0	16-SOIC	1	ADUM6400ARWZ-ND ***NEW!***	10.55	9.50	8.42	—
3.3/5.0	16-SOIC	1	ADUM6401ARWZ-ND ***NEW!***	10.55	9.50	8.42	—
3.3/5.0	16-SOIC	25	ADUM6401CRWZ-ND ***NEW!***	12.83	11.55	10.25	—
3.3/5.0	16-SOIC	1	ADUM6402ARWZ-ND ***NEW!***	10.55	9.50	8.42	—
3.3/5.0	16-SOIC	25	ADUM6402CRWZ-ND ***NEW!***	12.83	11.55	10.25	—
3.3/5.0	16-SOIC	25	ADUM6403CRWZ-ND ***NEW!***	12.83	11.55	10.25	—
3.3/5.0	16-SOIC	25	ADUM6404CRWZ-ND ***NEW!***	12.83	11.55	10.25	—
NEW! Full and Low Speed USB Digital Isolator — RoHS Compliant NEW!							
3.1/5.5	16-SOIC	12	ADUM4160BRWZ-ND	9.78	7.83	6.61	—
Evaluation Board for ADUM4160			EVAL-ADUM4160EBZ-ND	62.50	—	—	—

◆ ***RoHS Compliant*** Δ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Photocoupler - Thyristor Output

Fig. 1

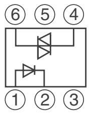

Fig. 2

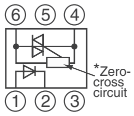

Fig. 3

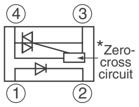

Fig. 4

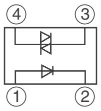

Fig. 5

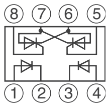

Fig. 6

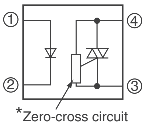

Fig. 7

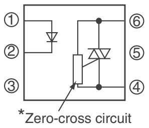

Fig. 8

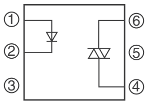

Fig. 9

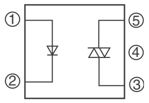

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	Voltage Typ.	Current (mA) Min.	Current (mA) Max.	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				1	10	100	
Tube													
1	1.2	10	50	600	100	3.5	5,000	6-Dip	425-1772-5-ND§	1.40	1.18	.84	S21MD3YY
2	1.2	3	50	600	100	3.5	5,000	6-Dip	425-1373-5-ND§*	.93	.78	.56	PC3SD21YTZD
	1.2	3	50	600	100	3.5	5,000	6-SMD	425-1375-5-ND§*	.95	.80	.57	PC3SD21YXZD
	1.2	5	50	600	100	3.5	5,000	6-SMD	425-1371-5-ND*	.99	.83	.66	PC3SD21NXZC
	1.2	5	50	600	100	3.5	5,000	6-SMD	425-1374-5-ND§*	.85	.72	.51	PC3SD21YXZC
	1.2	7	50	600	100	3.5	5,000	6-DipW	425-2587-5-ND◆§*	1.36	1.14	.91	PC3SF21YVZBF
	1.2	10	50	600	100	3.5	5,000	4-DipW	425-1283-5-ND*	1.23	1.03	.74	S21ME6F
	1.2	10	50	600	100	3.5	5,000	4-SMD	425-1285-5-ND§*	1.43	1.20	.86	S21ME6IY
	1.2	10	50	600	100	3.5	5,000	6-DipW	425-2586-5-ND◆§*	1.26	1.05	.84	PC3SF21YVZAF
	1.2	3	50	800	100	3.5	5,000	6-Dip	425-1405-5-ND*	1.18	.99	.71	PC4SD21NTZD
	1.2	3	15	800	100	3.5	5,000	6-DipW	425-1288-5-ND§*	2.38	2.00	1.43	S21ME8FY
	1.2	3	15	800	100	3.5	5,000	6-Dip	425-1289-5-ND§*	2.48	2.08	1.49	S21ME8Y
	1.2	7	50	800	100	3.5	5,000	6-DipW	425-2593-5-ND◆§*	1.64	1.37	1.10	PC4SF21YVZBF
3	1.2	10	50	600	50	3.5	3,750	4-SMD	425-1377-5-ND*	1.53	1.29	.92	PC3SG21YIZ
4	1.2	7	50	600	50	3.5	3,750	4-SMD	425-1301-5-ND§	.78	.66	.47	S2S3RY
	1.2	10	50	400	100	3.5	5,000	4-Dip	425-1230-5-ND	1.20	1.01	.72	S11ME5
	1.2	7	50	600	50	3.5	3,750	4-SMD	425-2420-5-ND◆§	1.00	.83	.67	S2S3RY0F
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2421-5-ND◆§	.78	.65	.52	S2S3Y00F
5	1.2	10	50	400	200	1.0	4,000	6-DipW	425-1239-5-ND§	1.70	1.43	1.02	S12ME1FY
	1.2	15	50	400	200	1.0	5,000	8-Dip	425-1238-5-ND	2.03	1.78	1.45	S12MD3
6	1.2	7	50	600	100	3.5	5,000	4-DipW	425-2687-5-ND◆§*	1.04	.87	.70	PC3SH21YFZBF
	1.2	7	50	600	100	3.5	5,000	4-Dip	425-2139-5-ND◆*	.88	.74	.59	PC3ST21NSZBF
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2422-5-ND◆*	1.05	.88	.70	S2S4000F
	1.2	5	50	600	50	3.5	3,750	4-SMD	425-2424-5-ND◆*	1.12	.93	.75	S2S4LY0F
7	1.2	7	50	800	100	3.5	5,000	6-Dip	425-2618-5-ND◆*	1.48	1.25	.89	PC4SF21YTZBF
	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2134-5-ND◆§*	1.13	.94	.76	PC3SD21YTZDF
	1.2	7	50	600	100	3.5	5,000	6-Dip	425-2129-5-ND◆*	.93	.78	.62	PC3SD21NTZBF
	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2131-5-ND◆*	1.08	.90	.72	PC3SD21NTZDF
	1.2	5	50	600	100	3.5	5,000	6-SMD	425-2132-5-ND◆*	.99	.83	.66	PC3SD21NXZCF
	1.2	5	50	600	100	3.5	5,000	6-Dip	425-2133-5-ND◆§*	.99	.83	.66	PC3SD21YTZCF
	1.2	5	50	600	100	3.5	5,000	6-SMD	425-2135-5-ND◆§*	1.02	.85	.68	PC3SD21YXZCF
	1.2	3	50	600	100	3.5	5,000	6-SMD	425-2136-5-ND◆§*	1.21	1.01	.81	PC3SD21YXZDF
	1.2	5	50	800	100	3.5	5,000	6-Dip	425-2151-5-ND◆*	1.38	1.16	1.16	PC4SD21NTZCF
	1.2	3	50	800	100	3.5	5,000	6-Dip	425-2152-5-ND◆*	1.80	1.50	1.50	PC4SD21NTZDF
8	1.2	7	50	800	100	3.5	5,000	6-Dip	425-2659-5-ND◆§	1.71	1.43	1.14	PC4SF11YTZBF
	1.2	7	50	600	100	3.5	5,000	6-Dip	425-2683-5-ND◆§	1.29	1.08	.86	PC3SF11YTZBF
	1.2	7	50	600	100	3.5	5,000	6-DipW	425-2684-5-ND◆§	1.17	.98	.78	PC3SF11YVZAF
	1.2	7	50	600	100	3.5	5,000	6-DipW	425-2685-5-ND◆§	1.26	1.05	.84	PC3SF11YVZBF
	1.2	7	50	800	100	3.5	5,000	6-Dip	425-1402-5-ND	.98	.82	.59	PC4SD11NTZB
	1.2	5	50	800	100	3.5	5,000	6-Dip	425-1403-5-ND	1.26	1.05	.84	PC4SD11NTZC
	1.2	10	50	400	100	3.5	5,000	6-Dip	425-2085-5-ND◆	.81	.68	.54	PC2SD11NTZAF
	1.2	7	50	600	100	3.5	5,000	6-Dip	425-2123-5-ND◆	.93	.78	.62	PC3SD11NTZBF
	1.2	5	50	600	100	3.5	5,000	6-Dip	425-2124-5-ND◆	.93	.78	.62	PC3SD11NTZCF
	1.2	5	50	600	100	3.5	5,000	6-SMD	425-2126-5-ND◆	.99	.83	.66	PC3SD11NXZCF
	1.2	10	50	600	100	3.5	5,000	6-Dip	425-2127-5-ND◆	.87	.73	.58	PC3SD12NTZAF
	1.2	10	50	600	100	3.5	5,000	6-SMD	425-2128-5-ND◆	.90	.75	.60	PC3SD12NXZAF
9	1.2	7	50	800	100	3.5	5,000	6-Dip	425-2149-5-ND◆	1.37	1.14	.92	PC4SD11NTZBF
	1.2	5	50	800	100	3.5	5,000	6-Dip	425-2150-5-ND◆	1.41	1.18	.94	PC4SD11NTZCF

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	Voltage Typ.	Current (mA) Min.	Current (mA) Max.	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				1	10	100		Qty.	Pricing	
Cut Tape/Tape and Reel																
2	1.2	7	50	600	100	3.5	5,000	6-SMD	425-1273-1-ND*	1.85	1.48	1.11	425-1273-2-ND*	1,000	962.00	S21ME3P
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2422-1-ND◆§*	1.05	.88	.70	—	—	—	S2S4B00F
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-1305-1-ND§*	1.05	.88	.70	—	—	—	S2S4BY
4	1.2	5	50	600	50	3.5	3,750	4-SMD	425-2418-1-ND◆	.93	.78	.63	425-2418-2-ND◆	750	349.88	S2S3LB0F
	1.2	10	50	600	100	3.5	5,000	4-SMD	425-1381-1-ND§	1.44	1.20	.96	425-1381-2-ND§	2,000	624.00/M	S21ME5PY
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2563-1-ND◆	1.00	.84	.67	425-2563-2-ND◆	3,000	442.23/M	S2S3LA0F

◆ ***RoHS Compliant*** ***** Built-in zero cross circuit § DIN EN60747-5-2

(Continued)

Photocoupler - Thyristor Output *(Cont.)*

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	Voltage Typ.	Current (mA) Min.	Current (mA) Max.	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				1	10	100		Qty.	Pricing	
6	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2564-1-ND◆§*	.78	.65	.52	425-2564-2-ND◆§*	3,000	345.80/M	S2S4A00F
	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2423-1-ND◆§*	1.05	.88	.70	425-2423-2-ND◆§*	750	393.75	S2S4BY0F
7	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2705-1-ND◆§*	.81	.68	.54	425-2705-2-ND◆§*	1,000	378.00	PC3SD21YXPLF
	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2704-1-ND◆§*	1.20	1.00	.80	425-2704-2-ND◆§*	1,000	560.00	PC3SD21YXPDF
	1.2	5	50	800	100	3.5	5,000	6-SMD	425-2537-1-ND◆§*	1.41	1.18	.94	425-2537-2-ND◆§*	1,000	658.00	PC4SD21YXPCF
	1.2	—	10µA	800	100	3.5	5,000	6-SMD	425-2658-1-ND◆§*	1.47	1.23	.98	—	—	—	PC4SD21YXPDF
	1.2	3	50	600	100	3.5	5,000	6-SMD	425-2671-1-ND◆§*	1.65	1.38	1.10	425-2671-2-ND◆§*	1,000	770.00	PC3SD21YXPEF
8	1.2	10	50	400	100	3.5	5,000	6-SMD	425-2573-1-ND◆	.96	.77	.53	425-2573-2-ND◆	1,000	360.00	PC2SD11NXPA

◆ ***RoHS Compliant*** * Built-in zero cross circuit § DIN EN60747-5-2

Photocoupler

Fig. 1

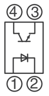

Fig. 2

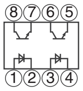

Fig. 3

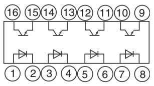

Fig. 4

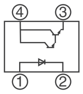

Fig. 5

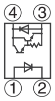

Fig. 6

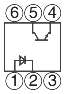

Fig. 7

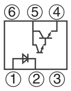

Fig. 8

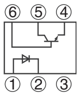

Fig. 9

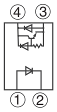

Fig. 10

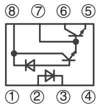

Fig. 11

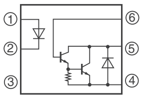

Fig. 12

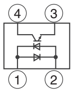

Fig. 13

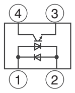

Fig. 14

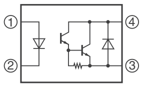

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	VCEO (V) Maximum	IC (mA) Maximum	Minimum (%)	Maximum (%)	@ IF (mA)	@ VCE (V)				1	10	100	
								Tube					
1	35	50	10	100	1	0.4	5,000	4-SMD	425-1473-5-ND	.85	.72	.51	PC818I
	35	50	10	100	1	0.4	5,000	4-Dip	425-1475-5-ND§	1.60	1.35	.96	PC818Y
	35	50	20	200	1	5	5,000	8-Dip	425-1476-5-ND†	2.45	2.15	1.75	PC823
	35	50	60	120	1	0.4	5,000	4-SMD	425-1435-5-ND	1.25	1.05	.75	PC810AI
	35	50	60	200	1	0.4	5,000	4-SMD	425-1436-5-ND	1.43	1.20	.86	PC810I
	35	50	80	160	5	5	5,000	4-Dip	425-2185-5-ND◆	.48	.39	.27	PC817X1J000F
	35	50	80	160	5	5	5,000	4-SMD	425-2191-5-ND◆	.52	.42	.29	PC817XI1J00F
	35	50	130	260	5	5	5,000	4-SMD	425-2192-5-ND◆	.52	.42	.29	PC817X2NIP0F
	70	50	50	400	0.5	5	5,000	4-Dip	425-2071-5-ND◆	.68	.55	.38	PC12310NSZ0F
	70	50	50	400	0.5	5	5,000	4-Dip	425-2072-5-ND◆	.72	.58	.40	PC12311NSZ0F
	70	50	50	400	5	5	5,000	4-Dip	425-2073-5-ND◆	.68	.55	.38	PC123AJ0000F
	70	50	50	400	5	5	5,000	4-Dip	425-2074-5-ND◆	.81	.65	.45	PC123BJ0000F
	70	50	50	400	5	5	5,000	4-Dip	425-2075-5-ND◆	.60	.48	.33	PC123J00000F
	70	50	50	400	5	5	5,000	4-Dip	425-2080-5-ND◆§	.80	.64	.44	PC123Y1J000F
	70	50	50	400	5	5	5,000	4-Dip	425-2081-5-ND◆§	.80	.64	.44	PC123Y2J000F
	70	50	50	400	5	5	5,000	4-Dip	425-2082-5-ND◆§	.76	.61	.42	PC123YJ0000F
	70	50	50	400	5	5	5,000	4-Dip	425-2083-5-ND◆§	.84	.68	.47	PC123YSJ000F
	70	50	50	400	5	5	5,000	4-Dip	425-1318-5-ND§	.60	.50	.36	PC123Y1
	70	50	50	400	5	5	5,000	4-Dip	425-1317-5-ND§	.57	.48	.35	PC123Y
	70	50	50	400	5	5	5,000	4-Dip	425-2571-5-ND◆§	.80	.64	.44	PC123FY2J00F
	70	50	50	400	5	5	5,000	4-Dip	425-2572-5-ND◆§	.63	.53	.38	PC123FY8J00F
	80	50	50	600	5	5	5,000	4-Dip	425-2427-5-ND◆	.44	.36	.25	PC817XJ0000F
	80	50	50	600	5	5	5,000	4-Dip	425-2184-5-ND◆	.52	.42	.29	PC817X0J000F
	80	50	50	600	5	5	5,000	4-Dip	425-2186-5-ND◆	.48	.39	.27	PC817X2J000F
	80	50	50	600	5	5	5,000	4-Dip	425-2187-5-ND◆	.48	.39	.27	PC817X3J000F
	80	50	50	600	5	5	5,000	4-Dip	425-2188-5-ND◆	.48	.39	.27	PC817X4J000F
	80	50	50	600	5	5	5,000	4-Dip	425-2441-5-ND◆	.52	.42	.29	PC817X7J000F
	80	50	50	600	5	5	5,000	4-Dip	425-2190-5-ND◆	.52	.42	.29	PC817X9J000F
	80	50	50	600	5	5	5,000	4-SMD	425-2193-5-ND◆	.48	.39	.27	PC817XIJ000F
	80	50	100	600	0.5	5	5,000	4-Dip	425-2594-5-ND◆	.77	.62	.43	PC81716NSZ0F
	80	50	100	600	0.5	5	5,000	4-Dip	425-2177-5-ND◆	.65	.53	.36	PC81710NSZ0F
	80	50	100	600	0.5	5	5,000	4-Dip	425-2179-5-ND◆	.64	.52	.36	PC81711NSZ0F
	80	50	100	600	0.5	5	5,000	4-Dip	425-2181-5-ND◆	.64	.52	.36	PC81712NSZ0F
	80	50	100	600	0.5	5	5,000	4-Dip	425-2183-5-ND◆	.64	.52	.36	PC81713NSZ0F
	350	50	40	80	5	5	5,000	4-SMD	425-2199-5-ND◆	.90	.73	.50	PC851XIJ000F
	350	50	40	80	5	5	5,000	4-Dip	425-2442-5-ND◆	.82	.66	.46	PC851XJ0000F
2	80	50	1,000	—	1	0.5	5,000	4-Dip	425-1509-5-ND◆	.57	.48	.35	PC866
3	300	50	40	80 Typical	5	5	5,000	16-Dip	425-1516-5-ND	5.17	4.52	3.68	PC8Q51
4	35	80	600	—	0.5	2	5,000	4-Dip	425-2174-5-ND◆‡	.96	.77	.53	PC81510NSZ0F
	35	80	600	—	0.5	2	5,000	4-SMD	425-2431-5-ND◆‡	.99	.83	.66	PC815XIJ000F
	35	80	600	—	1	2	5,000	4-Dip	425-2175-5-ND◆‡	.93	.78	.62	PC815XJ0000F
5	350	150	1,000	4,000	1	2	5,000	4-Dip	425-2443-5-ND◆§‡	.90	.73	.50	PC852XJ0000F
	350	150	1,000	—	1	2	5,000	4-SMD	425-2200-5-ND◆‡	1.00	.80	.55	PC852XIJ000F
	350	150	1,000	—	1	2	5,000	4-SMD	425-2201-5-ND◆‡	.78	.66	.53	PC853XIJ000F
6	35	50	50	600	5	5	5,000	6-Dip	425-1418-5-ND	.57	.48	.35	PC714V0NSZX
	35	50	50	600	5	5	5,000	6-Dip	425-1419-5-ND§	.63	.53	.38	PC714V0YSZX
	35	80	20	80	100	2	5,000	6-Dip	425-1426-5-ND§	.66	.55	.40	PC724V0NSZX
	35	80	20	80	100	2	5,000	6-Dip	425-2159-5-ND◆	.88	.71	.49	PC724V0NSZXF
	80	50	50	600	5	5	5,000	6-Dip	425-2155-5-ND◆	.85	.69	.47	PC714V0NSZXF
	80	50	50	600	5	5	5,000	6-Dip	425-2156-5-ND◆§	.91	.73	.50	PC714V0YSZXF

◆ ***RoHS Compliant*** † AC Input ‡ Darlington Output § DIN EN60747-5-2

(Continued)

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	VCEO (V) Maximum	IC (mA) Maximum	Minimum (%)	Maximum (%)	@ IF (mA)	@ VCE (V)				1	10	100	
7	35	80	600	—	1	2	5,000	6-Dip	425-2157-5-ND◆§‡	.96	.77	.53	PC715V0YSZXF
	35	80	600	—	1	2	5,000	6-Dip	425-2426-5-ND◆‡	.88	.71	.49	PC715V0NSZXF
8	35	50	50	600	5	5	5,000	6-Dip	425-1417-5-ND§	.63	.53	.38	PC713V0YSZX
	80	50	50	600	5	5	5,000	6-Dip	425-2435-5-ND◆	.88	.71	.49	PC713V0NSZXF
	80	50	50	600	5	5	5,000	6-Dip	425-2436-5-ND◆§	.84	.68	.47	PC713V0YSZXF
	80	50	50	600	5	5	5,000	6-SMD	425-2154-5-ND◆	.84	.68	.47	PC713V0NIZXF
9	70	30	50	400	5	5	5,000	4-Dip	425-2166-5-ND◆	.85	.69	.47	PC81100NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2167-5-ND◆	.88	.71	.49	PC81101NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2168-5-ND◆	.88	.71	.49	PC81102NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2169-5-ND◆	.99	.79	.55	PC81103NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2170-5-ND◆	.85	.69	.47	PC81105NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2171-5-ND◆	.85	.69	.47	PC81106NSZ0F
	70	30	50	400	5	5	5,000	4-Dip	425-2172-5-ND◆	.85	.69	.47	PC81108NSZ0F
	70	30	60	120	5	5	5,000	4-Dip	425-1438-5-ND◆	.66	.55	.40	PC81101NSZ
	70	30	60	300	5	5	5,000	4-Dip	425-1443-5-ND◆	.63	.53	.38	PC81108NSZ
	70	30	100	200	5	5	5,000	4-Dip	425-1439-5-ND◆	.66	.55	.40	PC81102NSZ
	70	30	100	300	5	5	5,000	4-Dip	425-1442-5-ND◆	.63	.53	.38	PC81106NSZ
	70	30	150	300	5	5	5,000	4-Dip	425-1440-5-ND◆	.66	.55	.40	PC81103NSZ
10	7VCC	20	300	—	1.6	4.5	2,500	8-Dip	425-1800-5-ND◆	1.98	1.66	1.19	PC6N138X
11	300	150	1,000	—	1	2	5,000	6-SMD	425-2160-5-ND◆‡	1.20	1.00	.80	PC725V0NIZXF
	300	150	1,000	—	1	2	5,000	6-Dip	425-2161-5-ND◆‡	1.17	.98	.78	PC725V0NSZXF
	300	150	1,000	—	1	2	5,000	6-Dip	425-2162-5-ND◆§‡	1.20	1.00	.80	PC725V0YSZXF
	300	150	1,000	—	1	2	5,000	6-SMD	425-2163-5-ND◆§‡	1.23	1.03	.82	PC725V0YUZXF

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ VCE (V)				1	10	100		Qty.	Pricing	
Cut Tape/Tape and Reel																
1	35	30	130	260	5	5	3,750	4-SMD	425-2091-1-ND◆	.68	.55	.38	425-2091-2-ND◆	3,000	238.00/M	PC357N2J000F
	35	30	200	400	5	5	3,750	4-SMD	425-2092-1-ND◆	.68	.55	.38	425-2092-2-ND◆	3,000	238.00/M	PC357N3J000F
	70	50	20	400	1	5	2,500	4-SMD	425-2105-1-ND◆	.68	.55	.38	425-2105-2-ND◆	3,000	238.00/M	PC3H4J00000F
	70	50	20	400	1	5	2,500	4-SMD	425-2116-1-ND◆	.60	.48	.33	425-2116-2-ND◆	3,000	210.00/M	PC3H7J00000F
	70	50	50	400	5	5	5,000	4-SMD	425-2076-1-ND◆	.68	.55	.38	425-2076-2-ND◆	2,000	255.00/M	PC123P2J000F
	70	50	50	400	5	5	5,000	4-SMD	425-2077-1-ND◆	.64	.52	.36	425-2077-2-ND◆	2,000	240.00/M	PC123PJ0000F
	70	50	50	400	5	5	5,000	4-SMD	425-2078-1-ND◆§	.96	.77	.53	425-2078-2-ND◆§	2,000	360.00/M	PC123PY2J00F
	70	50	50	400	5	5	5,000	4-SMD	425-2084-1-ND◆§	.64	.52	.36	425-2084-2-ND◆§	2,000	240.00/M	PC123ZY2J00F
	70	50	50	400	0.5	5	5,000	4-SMD	425-1313-1-ND	.64	.52	.36	425-1313-2-ND	2,000	216.00/M	PC123P
	70	50	50	400	5	5	5,000	4-SMD	425-1321-1-ND§	.64	.52	.36	425-1321-2-ND§	2,000	216.00/M	PC123ZY2
	70	50	100	250	0.5	5	5,000	4-SMD	425-1315-1-ND§	.96	.77	.53	—	—	—	PC123PY2
	70	50	100	250	0.5	5	5,000	4-SMD	425-1314-1-ND	.68	.55	.38	—	—	—	PC123P2
	70	50	100	500	0.5	5	3,750	4-SMD	425-2101-1-ND◆	.68	.55	.38	425-2101-2-ND◆	3,000	238.00/M	PC367NJ0000F
	70	50	100	600	0.5	5	5,000	4-SMD	425-1383-1-ND	.76	.61	.42	—	—	—	PC81710NIP
	70	50	100	600	0.5	5	5,000	4-SMD	425-2176-1-ND◆	.76	.61	.42	—	—	—	PC81710NIP0F
	70	50	100	700	0.5	5	2,500	4-SMD	425-2108-1-ND◆	.72	.58	.40	425-2108-2-ND◆	3,000	252.00/M	PC3H710NIP0F
	70	50	150	300	0.5	5	3,750	4-SMD	425-2099-1-ND◆	.76	.61	.42	425-2099-2-ND◆	3,000	266.00/M	PC367N1J000F
	70	50	160	400	0.5	5	5,000	4-SMD	425-1459-1-ND	.80	.64	.44	425-1459-2-ND	2,000	270.00/M	PC81712NIP
	70	50	200	400	5	5	5,000	4-SMD	425-2530-1-ND◆§	.45	.37	.25	425-2530-2-ND◆§	2,000	169.35/M	PC123X5YUP0F
	70	50	200	500	0.5	5	2,500	4-SMD	425-1350-1-ND	.80	.64	.44	—	—	—	PC3H712NIP
	80	30	50	600	5	5	3,750	4-SMD	425-2508-1-ND◆	.68	.55	.38	—	—	—	PC357N0J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2532-1-ND◆	.68	.55	.38	—	—	—	PC357N7J000F
	80	50	20	400	1	5	2,500	4-SMD	425-2113-1-ND◆	.75	.60	.42	425-2113-2-ND◆	3,000	260.96/M	PC3H7BJ0000F
	80	50	20	400	1	5	2,500	4-SMD	425-2114-1-ND◆	.68	.55	.38	425-2114-2-ND◆	3,000	238.00/M	PC3H7CJ0000F
	80	50	50	600	5	5	3,750	4-SMD	425-2090-1-ND◆	.68	.55	.38	425-2090-2-ND◆	3,000	238.00/M	PC357N1J000F
	80	50	50	600	5	5	3,750	4-SMD	425-2093-1-ND◆	.68	.55	.38	425-2093-2-ND◆	3,000	238.00/M	PC357N4J000F
	80	50	50	600	5	5	3,750	4-SMD	425-2094-1-ND◆	.64	.52	.36	425-2094-2-ND◆	3,000	224.00/M	PC357NJ0000F
	80	50	50	600	5	5	3,750	4-SMD	425-2095-1-ND◆	.68	.55	.38	425-2095-2-ND◆	750	204.00	PC357NTJ000F
	80	50	50	600	5	5	3,750	4-SMD	425-2578-1-ND◆	.80	.64	.44	425-2578-2-ND◆	750	240.00	PC357N1TJ00F
	80	50	50	600	5	5	3,750	4-SMD	425-2579-1-ND◆	.80	.64	.44	425-2579-2-ND◆	750	240.00	PC357N2TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2580-1-ND◆	.80	.64	.44	425-2580-2-ND◆	750	240.00	PC357N4TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2581-1-ND◆	.80	.64	.44	—	—	—	PC357N6TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2582-1-ND◆	.80	.64	.44	425-2582-2-ND◆	750	240.00	PC357N7TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2583-1-ND◆	.80	.64	.44	—	—	—	PC357N9TJ00F
	80	50	100	500	0.5	5	3,750	4-SMD	425-2100-1-ND◆	.72	.58	.40	425-2100-2-ND◆	3,000	252.00/M	PC367N2J000F
	80	50	100	700	0.5	5	2,500	4-SMD	425-2109-1-ND◆	.80	.64	.44	425-2109-2-ND◆	3,000	280.00/M	PC3H711NIP0F
	80	50	100	700	0.5	5	2,500	4-SMD	425-2110-1-ND◆	.80	.64	.44	425-2110-2-ND◆	3,000	280.00/M	PC3H712NIP0F
	80	50	100	700	0.5	5	2,500	4-SMD	425-2111-1-ND◆	.81	.65	.45	425-2111-2-ND◆	3,000	282.24/M	PC3H715NIP0F
	80	50	100	600	0.5	5	5,000	4-SMD	425-2538-1-ND◆	.76	.61	.42	425-2538-2-ND◆	2,000	287.69/M	PC81716NIP0F
	80	50	100	600	0.5	5	5,000	4-SMD	425-2178-1-ND◆	.80	.64	.44	425-2178-2-ND◆	2,000	300.00/M	PC81711NIP0F
	80	50	100	600	0.5	5	5,000	4-SMD	425-2180-1-ND◆	.80	.64	.44	425-2180-2-ND◆	2,000	300.00/M	PC81712NIP0F
	80	50	100	600	0.5	5	5,000	4-SMD	425-2182-1-ND◆	.76	.61	.42	425-2182-2-ND◆	2,000	285.00/M	PC81713NIP0F
	80	50	100	500	0.5	5	3,750	4-SMD	425-2584-1-ND◆	.72	.58	.40	425-2584-2-ND◆	750	216.00	PC367NTJ000F
	350	50	40	80	5	5	5,000	4-SMD	425-2539-1-ND◆	.92	.74	.51	—	—	—	PC851XPJ000F
	350	50	40	—	5	5	3,750	4-SMD	425-2144-1-ND◆	1.08	.90	.72	425-2144-2-ND◆	3,000	478.14/M	PC451J00000F
	350	50	40	240	5	5	2,500	4-SMD	425-2147-1-ND◆	.94	.76	.52	425-2147-2-ND◆	3,000	329.98/M	PC4H510NIP0F
4	35	80	600	7,500	1	2	3,750	4-SMD	425-2576-1-ND◆‡	.84	.70	.56	425-2576-2-ND◆‡	750	315.00	PC355NTJ000F
	35	80	600	—	1	2	2,500	4-SMD	425-2107-1-ND◆‡	.85	.68	.47	425-2107-2-ND◆‡	3,000	296.10/M	PC3H5J00000F
	35	80	600	—	0.5	2	3,750	4-SMD	425-2098-1-ND◆‡	.90	.72	.50	425-2098-2-ND◆‡	3,000	313.74/M	PC365NJ0000F
	35	80	600	12,000	0.5	2	3,750	4-SMD	425-1337-1-ND‡	.80	.64	.44	—	—	—	PC365N
	35	80	600	12,000	0.5	2	2,500	4-SMD	425-2106-1-ND◆‡	.92	.74	.51	425-2106-2-ND◆‡	3,000	322.00/M	PC3H510NIP0F

◆ ***RoHS Compliant*** † AC Input ‡ Darlington Output § DIN EN60747-5-2

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Output VCEO (V) Max.	Output IC (mA) Max.	Current Transfer Ratio Min. (%)	Current Transfer Ratio Max. (%)	Current Transfer Ratio @ IF (mA)	Current Transfer Ratio @ VCE (V)	Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Sharp Part No.
5	350	150	1,000	12,000	1	2	3,750	4-SMD	425-2591-1-ND◆‡	2.31	1.93	1.54	425-2591-2-ND◆‡	750	866.25	PC452TJ0000F
	350	150	1,000	4,000	1	2	5,000	4-SMD	425-2660-1-ND◆‡	.78	.65	.52	425-2660-2-ND◆‡	2,000	364.00/M	PC853XPJ000F
	350	150	1,000	—	1	2	3,750	4-SMD	425-2145-1-ND◆‡	1.17	.98	.78	425-2145-2-ND◆‡	3,000	518.70/M	PC452J00000F
6	35	80	20	80	100	2	5,000	6-SMD	425-1382-1-ND	.78	.65	.52	—	—	—	PC724V0NIPX
	35	80	20	80	100	2	5,000	6-SMD	425-2158-1-ND◆	.72	.61	.43	—	—	—	PC724V0NIPXF
12	35	50	50	150	1.0	5	3,750	4-SMD	425-1325-1-ND†	.96	.77	.53	425-1325-2-ND†	3,000	312.00/M	PC354N1
	80	50	20	400	1	5	3,750	4-SMD	425-2087-1-ND◆†	.80	.67	.54	425-2087-2-ND◆†	3,000	354.18/M	PC354N1J000F
	80	50	20	400	1	5	3,750	4-SMD	425-2088-1-ND◆†	.69	.55	.38	425-2088-2-ND◆†	3,000	240.80/M	PC354NJ0000F
	80	50	20	400	1	5	3,750	4-SMD	425-2574-1-ND◆†	.96	.77	.53	425-2574-2-ND◆†	750	288.00	PC354N1TJ00F
	80	50	20	400	1	5	3,750	4-SMD	425-2575-1-ND◆†	.72	.58	.40	425-2575-2-ND◆†	750	216.00	PC354NTJ000F
	80	50	50	400	0.5	5	2,500	4-SMD	425-2102-1-ND◆†	.92	.74	.51	—	—	—	PC3H410NIP0F
	80	50	50	400	0.5	5	2,500	4-SMD	425-2103-1-ND◆†	.92	.74	.51	425-2103-2-ND◆†	3,000	322.00/M	PC3H411NIP0F
13	70	50	100	300	0.5	5	3,750	4-SMD	425-1336-1-ND†	.96	.77	.53	—	—	—	PC364N1
	80	50	50	400	0.5	5	3,750	4-SMD	425-2097-1-ND◆†	.92	.74	.51	425-2097-2-ND◆†	3,000	322.00/M	PC364NJ0000F
14	350	150	1,000	12,000	1	2	5,000	4-SMD	425-2540-1-ND◆§‡	.96	.77	.53	425-2540-2-ND◆§‡	2,000	360.00/M	PC852XPJ000F

◆ ***RoHS Compliant*** † AC Input ‡ Darlington Output § DIN EN60747-5-2

OPIC™ Photocoupler

Fig. 1

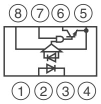

Fig. 2

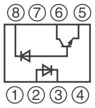

Fig. 3

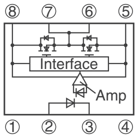

Fig. 4

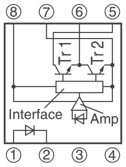

Fig. 5

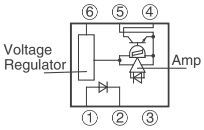

Fig. 6

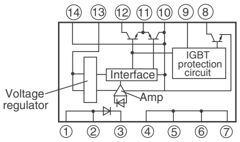

Fig. 7

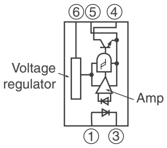

Fig. 8

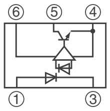

Fig. 9

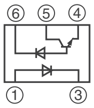

Fig. 10

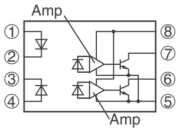

Fig. 11

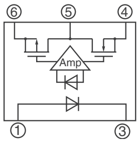

Fig. 12

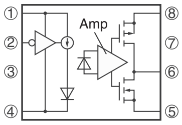

Fig.	Vcc Max. (V)	Prop Delay Typ. (µs) H-L	Prop Delay Typ. (µs) L-H	Isolation Voltage (Vrms)	Dimensions - mm Length	Dimensions - mm Width	Dimensions - mm Pitch	Package Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sharp Part No.
								Tube					
1	7	0.048	0.05	5,000	9.66	6.5	2.54	8-Dip	425-1534-5-ND§	2.10	1.77	1.26	PC910L0YSZ
2	30	0.2	0.6	5,000	9.66	6.5	2.54	8-Dip	425-1547-5-ND§	1.84	1.55	1.11	PC957L0YSZ
	30	0.2	0.4	5,000	9.66	6.5	2.54	8-Dip	425-2213-5-ND◆§	1.84	1.55	1.11	PC957L0YSZ0F
	30	0.2	0.4	5,000	9.66	6.5	2.54	8-Dip	425-2212-5-ND◆	1.67	1.41	1.01	PC957L0NSZ0F
3	35	0.3	0.3	5,000	9.66	6.5	2.54	8-Dip	425-2542-5-ND◆	2.45	2.05	1.64	PC925L0NSZ0F
4	18	2.0	2.0	5,000	9.66	6.5	2.54	8-Dip	425-2211-5-ND◆	1.20	1.00	.80	PC942J00000F
5	16	1.0	2.0	5,000	7.12	6.5	2.54	6-Dip	425-2204-5-ND◆	.87	.73	.58	PC900V0NSZXF
	16	1.0	2.0	5,000	7.12	6.5	2.54	6-Dip	425-2205-5-ND◆§	1.17	.98	.78	PC900V0YSZXF
	16	1.0	2.0	5,000	7.12	6.5	2.54	6-Dip	425-2206-5-ND◆	1.20	1.00	.80	PC901V0NSZXF
6	35	1.0	1.0	4,000	9.22	6.5	1.27	14-SMD	425-2209-5-ND◆	2.78	2.22	1.84	PC928J00000F
	35	0.3	0.3	4,000	9.22	6.5	1.27	14-SMD	425-2210-5-ND◆	3.25	2.60	2.15	PC929J00000F

Fig.	Vcc Max. (V)	Prop Delay Typ. (µs) H-L	Prop Delay Typ. (µs) L-H	Isolation Voltage (Vrms)	Dimensions - mm Length	Dimensions - mm Width	Dimensions - mm Pitch	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Sharp Part No.
								Cut Tape/Tape and Reel								
1	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2534-1-ND◆§	2.85	2.38	1.90	425-2534-2-ND◆§	1,500	1312.50/M	PC410S0NIP0F
2	30	0.3	0.3	3,750	5.080	3.937	1.27	8-SMD	425-2535-1-ND◆§	2.02	1.69	1.35	425-2535-2-ND◆§	1,500	942.90/M	PC457S0NIP0F
5	16	1.0	2.0	5,000	7.12	6.5	2.54	6-SMD	425-2541-1-ND◆§	1.23	1.03	.82	425-2541-2-ND◆§	1,000	574.00	PC900V0NIPXF
7	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-1521-1-ND	2.04	1.70	1.36	425-1521-2-ND	3,000	850.00/M	PC401
	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-2143-1-ND◆	2.36	1.97	1.58	—	—	—	PC401J00000F
8	7	0.048	0.05	3,750	3.6	4.4	1.27	5-SOP	425-2141-1-ND◆	2.10	1.75	1.40	425-2141-2-ND◆	3,000	931.00/M	PC410L0NIP0F
	7	0.048	0.05	3,750	3.6	4.4	1.27	5-SOP	425-2142-1-ND◆§	2.73	2.28	1.82	425-2142-2-ND◆§	3,000	1208.57/M	PC410L0YIP0F
9	30	0.2	0.4	3,750	3.6	4.4	1.27	5-SMD	425-2146-1-ND◆§	1.98	1.65	1.32	425-2146-2-ND◆§	3,000	877.80/M	PC457L0YIP0F
	30	0.2	0.4	3,750	3.6	4.4	1.27	5-SMD	425-2452-1-ND◆	1.95	1.63	1.30	425-2452-2-ND◆	3,000	864.50/M	PC457L0NIP0F
10	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2536-1-ND◆§	3.68	2.95	2.44	425-2536-2-ND◆§	1,500	1914.78/M	PC4D10SNIP0F
11	6.0	0.027	0.035	3,750	3.6	4.4	1.27	5-SMD	425-2588-1-ND◆§	2.67	2.14	1.77	—	—	—	PC411L0NIP0F
12	5.5	0.023	0.022	3,750	5.080	3.937	1.27	8-SMD	425-2590-1-ND◆§	3.30	2.64	2.18	—	—	—	PC412S0NIP0F

◆ ***RoHS Compliant*** § DIN EN60747-5-2

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IsoLoop® High Performance Digital Isolators

IsoLoop digital isolators from NVE are superior performance alternatives to traditional opto-couplers or optoisolators. They are available in single, dual and quad channel form factors. IsoLoop bus isolators offer the designer highly compact, isolated RS 485 and RS 422 compliant devices. These high-speed products are ideal for many industrial communication applications, including PROFIBUS.

Features:

IL260E, IL261, IL261E, and IL262E: • 3.3V/5V CMOS/TTL Compatible • 110Mbps Data Rate • 2500Vrms Isolation (1 minute) • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30k/Vμs Typical Transient Immunity

IL422E: • 2500Vrms Isolation (1 minute) • 25ns Propagation Delay • 25MBd Data Rate • 1ns Pulse Skew • ±60mA Driver Output Capability • Thermal Shutdown Protection • Meets or Exceeds EIA 422-B, EIA 485-A and ITU Recommendation VII • UL 1577 Approval (pending)

IL41050TE: • 2500Vrms Isolation (1 minute) • 30kV/μs Transient Immunity

IL485E, IL485W, and IL485WE: • 35MBd Data Rate • 25ns Propagation Delay • 2500Vrms Isolation (1 minute)

IL510, IL511, IL514, IL515, and IL516: • 2Mbps Maximum Speed • External Clocking Option (IL510 and IL515) • 10ns Pulse Width Distortion • 25ns Propagation Delay

IL610, IL610E, IL611E, IL612E, IL613E, and IL614E: • 40Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)

IL610A, IL610AE IL611AE, and IL612AE: • 10Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)

IL710, IL710E, IL710T, IL711, IL711E, IL711T, IL712E, IL712T, and IL721: • 100-110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/μs Transient Immunity • 2500Vrms Isolation (1 minute)

IL715, IL715E, IL715T, IL716, IL716E, IL716T, IL717, IL717E, and IL717T: • 100MBd Data Rate; T-Series: 110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/μs Transient Immunity; T-Series: 30kV/μs Transient Immunity • 2500Vrms Isolation (1 minute)

IL3185E, IL3185, IL3122E and IL3122: • 5Mbps Data Rate • 2500Vrms Isolation (1 minute) • 40ns Typical Propagation Delay

IL3285E, IL3285, IL3222E and IL3222: • 5Mbps Data Rate • 6ns Typical Pulse Skew • 2500Vrms Isolation (1 minute) • 40ns Typical Propagation Delay • 20kV/μs Typical Common Mode Rejection

IL3485, IL3422E and IL3422: • 20Mbps Data Rate • 2500Vrms Isolation (1 minute) • 40ns Typical Propagation Delay

IL3585E: • 40Mbps Data Rate • 5ns Pulse Skew • 20ns Propagation Delay • 20kV/μs Typical Common Mode Rejection • 2500Vrms Isolation (1 minute)

Fig. 1

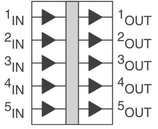

Fig. 2

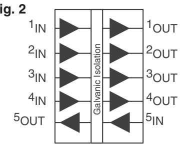

Fig. 3

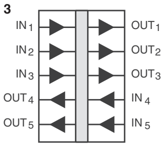

Fig. 4

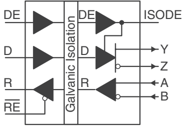

Fig. 5

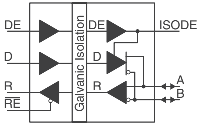

Fig. 6 ***NEW!***

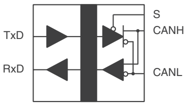

Fig. 7

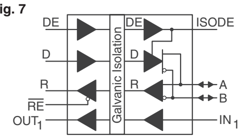

Fig. 8

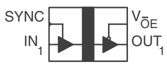

Fig. 9

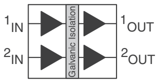

Fig. 10

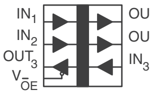

Fig. 11

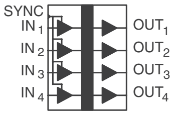

Fig. 12

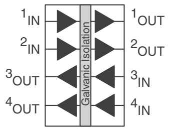

Fig. 13

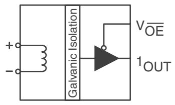

Fig. 14

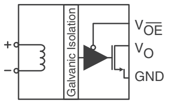

Fig. 15

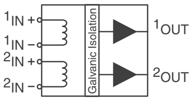

Fig. 16

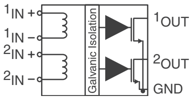

Fig. 17

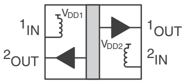

Fig. 18

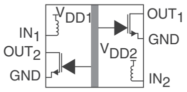

Fig. 19

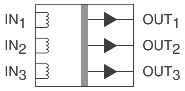

Fig. 20

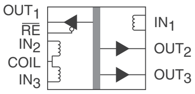

Fig. 21

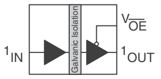

Fig. 22

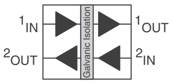

Fig. 23

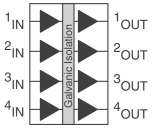

Fig. 24

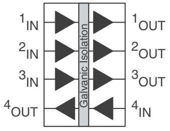

Fig. 25 ***NEW!***

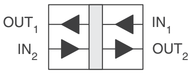

Fig. 26

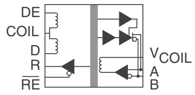

Fig. 27

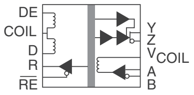

Fig. 28

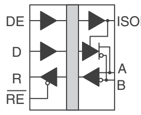

Fig.	Supply Voltage (V)	Package Type	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
9	3.3/5.0	8-SOIC	-40 ~ 100	390-1006-5-ND	5.86	5.43	4.76	4.13	IL711-3
	3.3/5.0	8-SOIC	-40 ~ 125	390-1036-5-ND	6.30	5.83	5.14	4.46	IL711T-3
12	3.3/5.0	16-SOIC	-40 ~ 100	390-1013-5-ND	7.70	7.13	6.29	5.45	IL716-3
	3.3/5.0	16-SOICW	-40 ~ 125	390-1040-5-ND	8.30	7.68	6.73	5.83	IL716T
22	3.3/5.0	8-SOIC	-40 ~ 125	390-1037-5-ND	6.30	5.83	5.14	4.46	IL712T-3
23	3.3/5.0	16-SOIC	-40 ~ 100	390-1012-5-ND	7.70	7.13	6.29	5.45	IL715-3
	3.3/5.0	16-SOICW	-40 ~ 125	390-1038-5-ND	8.30	7.68	6.73	5.83	IL715T
24	3.3/5.0	16-SOIC	-40 ~ 100	390-1014-5-ND	7.70	7.13	6.29	5.45	IL717-3
	3.3/5.0	16-SOICW	-40 ~ 125	390-1041-5-ND	8.30	7.68	6.73	5.83	IL717T
RoHS Compliant									
1	3.3/5.0	16-SOICW	-40 ~ 85	390-1068-5-ND	8.60	7.96	6.99	6.05	IL260E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1069-5-ND	8.60	7.96	6.99	6.05	IL260-3E
2	3.3/5.0	16-SOICW	-40 ~ 85	390-1070-5-ND	8.60	7.96	6.99	6.05	IL261E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1071-5-ND	8.60	7.96	6.99	6.05	IL261-3E
3	3.3/5.0	16-SOICW	-40 ~ 85	390-1115-5-ND	8.60	7.96	6.99	6.05	IL262E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1116-5-ND	8.60	7.96	6.99	6.05	IL262-3E
4	4.5/5.5	16-SOICW	-40 ~ 85	390-1074-5-ND	12.60	11.66	10.29	8.91	IL422E
5	4.5/5.5	16-SOICW	-40 ~ 85	390-1072-5-ND	12.60	11.66	10.29	8.91	IL485E
6	3/5.5V	16-SOIC	-55 ~ 125	390-1131-ND ***NEW!***	3.80	3.55	3.11	2.70	IL41050TE
7	4.5/5.5	16-SOICW	-40 ~ 85	390-1073-5-ND	12.60	11.66	10.29	8.91	IL485WE
8	3.0/5.5	8-SOIC	-40 ~ 85	390-1117-5-ND	4.00	3.00	2.80	2.60	IL510-3E
	3.3/5.0	8-MSOP	-40 ~ 85	390-1122-5-ND	4.03	3.00	2.80	2.60	IL510-1E
9	3.0/5.5	8-SOIC	-40 ~ 85	390-1118-5-ND	3.50	2.80	2.50	2.30	IL511-3E
	3.3/5.0	8-MSOP	-40 ~ 85	390-1123-5-ND	3.50	2.80	2.50	2.30	IL511-1E
10	3.0/5.5	16-SOIC	-40 ~ 85	390-1119-5-ND	4.00	3.30	2.95	2.70	IL514E
11	3.0/5.5	16-SOIC	-40 ~ 85	390-1120-5-ND	5.00	4.20	3.90	3.60	IL515E
12	3.0/5.5	16-SOIC	-40 ~ 85	390-1121-5-ND	5.00	4.20	3.90	3.60	IL516E
13	3.3/5.0	8-MSOP	-40 ~ 85	390-1075-5-ND	3.20	2.96	2.60	2.26	IL610-1E
	3.3/5.0	8-DIP	-40 ~ 85	390-1076-5-ND	3.20	2.96	2.60	2.26	IL610-2E
	3.3/5.0	8-SOIC	-40 ~ 85	390-1077-5-ND	3.20	2.96	2.60	2.26	IL610-3E
14	3.3/5.0	8-MSOP	-40 ~ 85	390-1078-5-ND	3.00	2.78	2.45	2.12	IL610A-1E
	3.3/5.0	8-SOIC	-40 ~ 85	390-1080-5-ND	3.00	2.78	2.45	2.12	IL610A-3E
15	3.3/5.0	8-MSOP	-40 ~ 85	390-1081-5-ND	4.80	4.44	3.90	3.38	IL611-1E
	3.3/5.0	8-DIP	-40 ~ 85	390-1082-5-ND	4.80	4.44	3.90	3.38	IL611-2E
	3.3/5.0	8-SOIC	-40 ~ 85	390-1083-5-ND	4.80	4.44	3.90	3.38	IL611-3E
16	3.3/5.0	8-MSOP	-40 ~ 85	390-1084-5-ND	3.80	3.52	3.11	2.70	IL611A-1E
	3.3/5.0	8-SOIC	-40 ~ 85	390-1086-5-ND	3.80	3.52	3.11	2.70	IL611A-3E
17	3.3/5.0	8-SOIC	-40 ~ 85	390-1088-5-ND	4.80	4.44	3.90	3.38	IL612-3E
18	3.3/5.0	8-DIP	-40 ~ 85	390-1089-5-ND	3.80	3.52	3.11	2.70	IL612A-2E
	3.3/5.0	8-SOIC	-40 ~ 85	390-1090-5-ND	3.80	3.52	3.11	2.70	IL612A-3E

Fig.	Supply Voltage (V)	Package Type	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
19	3.3/5.0	16-SOIC	-40 ~ 85	390-1092-5-ND	5.80	5.37	4.26	4.07	IL613-3E
20	3.3/5.0	16-SOICW	-40 ~ 85	390-1093-5-ND	5.80	5.37	4.26	4.07	IL614E
21	3.3/5.0	8-MSOP	-40 ~ 100	390-1103-5-ND	3.60	3.33	2.92	2.53	IL710-1E
	3.3/5.0	8-DIP	-40 ~ 100	390-1056-5-ND	3.60	3.33	2.92	2.53	IL710-2E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1057-5-ND	3.60	3.33	2.92	2.53	IL710-3E
	3.3/5.0	8-MSOP	-40 ~ 100	390-1106-5-ND	3.90	3.61	3.18	2.75	IL710S-1E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1107-5-ND	3.90	3.61	3.18	2.75	IL710S-3E
	3.3/5.0	8-SOIC	-40 ~ 125	390-1035-5-ND	3.90	3.61	3.18	2.75	IL710T-3
9	3.3/5.0	8-MSOP	-40 ~ 100	390-1104-5-ND	5.86	5.43	4.76	4.13	IL711-1E
	3.3/5.0	8-DIP	-40 ~ 100	390-1058-5-ND	5.86	5.43	4.76	4.13	IL711-2E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1059-5-ND	5.86	5.43	4.76	4.13	IL711-3E
	3.3/5.0	8-MSOP	-40 ~ 100	390-1108-5-ND	6.30	5.83	5.14	4.46	IL711S-1E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1109-5-ND	6.30	5.83	5.14	4.46	IL711S-3E
	3.3/5.0	8-MSOP	-40 ~ 125	390-1113-5-ND	6.30	5.83	5.14	4.46	IL711T-1E
22	3.3/5.0	8-MSOP	-40 ~ 100	390-1105-5-ND	5.86	5.43	4.76	4.13	IL712-1E
	3.3/5.0	8-DIP	-40 ~ 100	390-1060-5-ND	5.86	5.43	4.76	4.13	IL712-2E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1061-5-ND	5.86	5.43	4.76	4.13	IL712-3E
	3.3/5.0	8-MSOP	-40 ~ 100	390-1110-5-ND	6.30	5.83	5.14	4.46	IL712S-1E
	3.3/5.0	8-SOIC	-40 ~ 100	390-1111-5-ND	6.30	5.83	5.14	4.46	IL712S-3E
	3.3/5.0	8-MSOP	-40 ~ 125	390-1114-5-ND	6.30	5.83	5.14	4.46	IL712T-1E
23	3.3/5.0	16-SOICW	-40 ~ 100	390-1062-5-ND	7.70	7.13	6.29	5.45	IL715E
	3.3/5.0	16-SOIC	-40 ~ 100	390-1063-5-ND	7.70	7.13	6.29	5.45	IL715-3E
	3.3/5.0	16-SOIC	-40 ~ 125	390-1102-5-ND	8.30	7.68	6.73	5.83	IL715T-3E
12	3.3/5.0	16-SOICW	-40 ~ 100	390-1064-5-ND	7.70	7.13	6.29	5.45	IL716E
	3.3/5.0	16-SOIC	-40 ~ 100	390-1065-5-ND	7.70	7.13	6.29	5.45	IL716-3E
24	3.3/5.0	16-SOICW	-40 ~ 100	390-1066-5-ND	7.70	7.13	6.29	5.45	IL717E
	3.3/5.0	16-SOIC	-40 ~ 100	390-1067-5-ND	7.70	7.13	6.29	5.45	IL717-3E
25	3/5.5	8-SOIC	-40 ~ 100	390-1130-ND ***NEW!***	6.12	5.67	4.98	4.32	IL721-3E
26	3.3/5.0	16-SOICW	-40 ~ 85	390-1095-5-ND	4.04	3.77	3.30	2.86	IL3185E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1124-5-ND	4.02	3.76	3.29	2.85	IL3185-3E
	3.3	16-SOICW	-40 ~ 85	390-1097-5-ND	4.11	3.84	3.37	2.92	IL3285E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1126-5-ND	4.11	3.84	3.37	2.92	IL3285-3E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1128-5-ND	4.19	3.92	3.43	2.97	IL3485-3E
27	3.3/5.0	16-SOICW	-40 ~ 85	390-1096-5-ND	4.04	3.77	3.30	2.86	IL3122E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1125-5-ND	4.04	3.77	3.30	2.86	IL3122-3E
	3.3	16-SOICW	-40 ~ 85	390-1098-5-ND	4.11	3.84	3.37	2.92	IL3222E
	3.3/5.0	16SOIC	-40 ~ 85	390-1127-5-ND	4.11	3.84	3.37	2.92	IL3222-3E
	3.3/5.0	16-SOICW	-40 ~ 85	390-1100-5-ND	4.19	3.92	3.43	2.97	IL3422E
	3.3/5.0	16-SOIC	-40 ~ 85	390-1129-5-ND	4.19	3.92	3.43	2.97	IL3422-3E
28	3.3/5.0	16-SOICW	-40 ~ 85	390-1101-5-ND	5.51	5.15	4.51	3.91	IL3585E

Optocouplers

Fig. 1

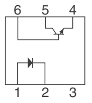

Fig. 2

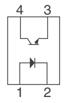

Fig. 3

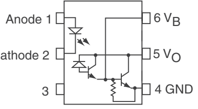

Fig. 4

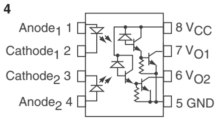

Fig. 5

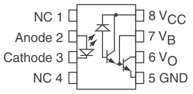

Fig. 6

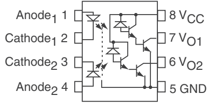

Fig. 7

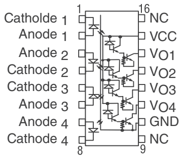

Fig. 8

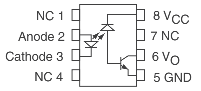

Fig. 9

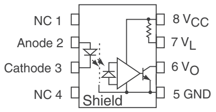

Fig. 10

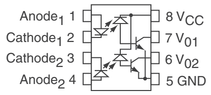

Fig. 11

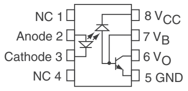

Fig. 12

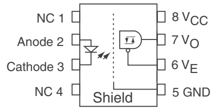

Fig. 13

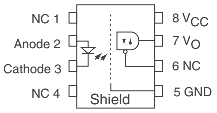

Fig. 14

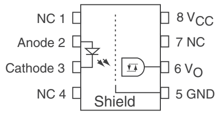

Fig. 15

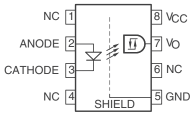

Phototransistor

RoHS COMPLIANT

Fig.	Package	CTR Range (%)	Vceo (V)	Rise/Fall Time (μs)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Avago Part No.
1	6-DIP	20 ~ N/A	30	3/3	2,500	516-1556-5-ND	.43	3.60	27.00	—	—	4N25-000E
	6-SMD	100 ~ N/A	30	3/3	3,550	516-1730-5-ND	.56	4.20	33.00	—	—	4N35-300E
	6-SMD	100 ~ N/A	30	3/3	3,550	516-1731-1-ND◊	.56	4.20	33.00	1,000	210.00	4N35-500E
2	4-SOIC	50 ~ 600	80	2/3	3,000	516-1978-1-ND◊	.67	5.04	39.60	3,000	180.00/M	ACPL-217-500E
	4-SOIC	80 ~ 600	80	4/3	3,750	516-1646-1-ND◊	.56	4.24	30.40	3,000	152.00/M	HCPL-181-000E
	4-MINIPAK	50 ~ 600	80	4/3	3,750	516-1787-1-ND◊	.56	4.24	30.40	3,000	136.00/M	HCPL-181-00BE
	4-MINIPAK	50 ~ 600	80	4/3	3,750	516-1788-1-ND◊	.50	3.78	29.70	3,000	135.00/M	HCPL-181-00CE
	4-SMD	50 ~ 600	70	4/3	5,000	516-1878-5-ND	.56	4.24	28.80	—	—	HCPL-817-300E

Low Input Current, High Gain

Fig.	Package▲	CTR Range (%)	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Avago Part No.
3	6-DIP	200 ~ 3,200	20	3,750	516-1022-5-ND	3.64	32.01	271.60	—	—	4N46
					RoHS Compliant						
3	6-DIP	200 ~ 3,200	20	3,750	516-1596-5-ND	3.64	32.01	271.60	—	—	4N46-000E
4	8-SOIC	400 ~ 5,000	3.3	3,750	516-1644-5-ND	5.43	48.05	372.00	—	—	HCPL-073L-000E
	8-DIP	300 ~ 2,600	7	5,000	516-1542-5-ND	3.68	32.55	252.00	—	—	HCPL-2730-000E
	8-SOIC	300 ~ 2,600	7	3,750	516-1641-5-ND	5.22	46.19	357.60	—	—	HCPL-0730-000E
	8-DIP	400 ~ 5,000	18	5,000	516-1543-5-ND	3.85	34.10	264.00	—	—	HCPL-2731-000E
	8-SOIC	400 ~ 5,000	18	3,750	516-1642-5-ND	5.81	51.46	398.40	—	—	HCPL-0731-000E
	8-SOIC	400 ~ 5,000	18	3,750	516-1535-1-ND◊	5.88	52.08	403.20	1,500	2520.00/M	HCPL-0731-500E
5	8-DIP	400 ~ 5,000‡	18	3,750	516-1601-5-ND	1.69	14.63	112.50	—	—	6N139-000E
	8-SOIC	400 ~ 5,000‡	18	3,750	516-1780-1-ND◊	1.88	15.98	136.30	1,000	705.00	6N139-500E
	8-SOIC	500 ~ 5,000	18	3,750	516-1637-5-ND	2.48	21.78	184.80	—	—	HCPL-0701-000E
	8-SOIC	500 ~ 5,000	18	3,750	516-1488-1-ND◊	2.55	22.44	190.40	1,500	1190.00/M	HCPL-0701-500E
	8-DIP(W)	200 ~ 4,500	18	5,000	516-1612-5-ND	3.75	33.17	256.80	—	—	HCNW139-000E
	8-SMD	200 ~ 4,500	18	5,000	516-1613-5-ND	3.82	33.79	261.60	—	—	HCNW139-300E
6	8-SOIC	500 ~ 25,000	18	3,750	516-1638-5-ND	3.84	35.20	268.80	—	—	HCPL-070A-000E
	8-SOIC	500 ~ 25,000	18	3,750	516-1643-5-ND	9.02	83.50	634.60	—	—	HCPL-073A-000E
7	16-DIP	200 ~ 1,500‡	18	—	516-1834-5-ND	60.88	572.96	5102.93	—	—	6N140A

High-Speed

Fig.	Package▲	CTR Range (%)	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Pricing 1,500	Avago Part No.
8	8-DIP(W)	19 ~ 63	30	5,000	516-1037-5-ND	4.17	36.89	285.60	—	HCNW4504
9	8-SMD	44 ~ 90	30	3,750	516-1039-5-ND	3.56	31.35	266.00	—	HCPL-4506#300
	8-SOIC	44 ~ 90	30	3,750	516-1040-5-ND	4.45	39.37	304.80	—	HCPL-0466
10	8-SOIC	15 ~ 50	30	3,750	516-1047-5-ND	7.46	66.03	511.20	—	HCPL-0534
					RoHS Compliant					
11	8-SOIC	7 ~ 50	30	3,750	516-1630-5-ND	1.95	17.16	145.60	—	HCPL-0500-000E
	8-DIP(W)	5 ~ 50	30	5,000	516-1610-5-ND	2.85	25.08	212.80	—	HCNW135-000E
	8-DIP	19 ~ 50	15	3,750	516-1520-5-ND	1.80	15.30	130.50	—	6N136-000E
	8-SMD	19 ~ 50	15	3,750	516-1598-5-ND	1.88	15.98	136.30	—	6N136-300E
	8-SOIC	15 ~ 50	30	3,750	516-1529-1-ND◊	2.25	19.80	168.00	1050.00/M	HCPL-0501-500E
	8-DIP(W)	15 ~ 50	30	5,000	516-1524-5-ND	3.00	26.40	224.00	—	HCNW136-000E
	8-SOIC	15 ~ 50	30	3,750	516-1628-5-ND	2.21	19.47	165.20	—	HCPL-0452-000E
	8-SOIC	15 ~ 50	30	3,750	516-1528-5-ND	3.08	27.06	229.60	—	HCPL-0453-000E
	8-SOIC	19 ~ 50	30	3,750	516-1874-5-ND	1.86	17.40	139.20	—	HCPL-0501-000E
	8-DIP(W)	15 ~ 50	30	5,000	516-1620-5-ND	3.75	33.17	256.80	—	HCNW4503-000E
	8-SMD(W)	15 ~ 50	30	5,000	516-1621-5-ND	3.82	33.79	261.60	—	HCNW4503-300E
8	8-DIP	26 ~ 65	30	3,750	516-1479-5-ND	3.15	27.72	235.20	—	HCPL-4504-000E
	8-SOIC	26 ~ 65	30	3,750	516-1629-5-ND	3.45	30.36	257.60	—	HCPL-0454-000E
	8-SMD(W)	25 ~ 65	30	5,000	516-1622-5-ND	4.24	37.51	290.40	—	HCNW4504-300E
9	8-DIP	44 ~ 90	30	3,750	516-1549-5-ND	3.49	30.69	260.40	—	HCPL-4506-000E
	8-DIP(W)	44 ~ 90	30	5,000	516-1623-5-ND	4.27	37.82	292.80	—	HCNW4506-000E
	8-SMD(W)	44 ~ 90	30	5,000	516-1624-5-ND	4.34	38.44	297.60	—	HCNW4506-300E
10	8-DIP	7 ~ 50	30	5,000	516-1659-5-ND	3.15	27.72	235.20	—	HCPL-2530-000E
	8-ESOP	7 ~ 50	30	3,750	516-1631-5-ND	4.73	41.85	324.00	—	HCPL-0530-000E
	8-DIP	19 ~ 50	30	5,000	516-1474-5-ND	3.30	29.04	246.40	—	HCPL-2531-000E
	8-SMD	19 ~ 50	30	5,000	516-1660-5-ND	3.38	29.70	252.00	—	HCPL-2531-300E
	8-SOIC	19 ~ 50	30	3,750	516-1484-1-ND◊	4.97	44.02	340.80	2130.00/M	HCPL-0531-500E
	8-ESOP	19 ~ 50	30	3,750	516-1530-5-ND	4.90	43.40	336.00	—	HCPL-0531-000E
	8-SOIC	15 ~ 50	3.6	3,750	516-1632-5-ND	5.32	47.12	364.80	—	HCPL-053L-000E

High Bandwidth Analog/Video

Fig.	Package▲	CTR % (Typ.)	Bandwidth MHz (Typ.)	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
11	8-SMD(W)	52	9	30	5,000	516-1051-5-ND	4.44	40.70	310.80	HCNW4562#300
						RoHS Compliant				
11	8-DIP	45	17	30	3,750	516-1679-5-ND	3.61	31.93	247.20	HCPL-4562-000E

† 8MBd ◊ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND ‡ JEDEC registered data ▲ 8-SMD = PDip Package with Gullwing Leads; *(W) = 0.4 inch row spacing and (N) = 0.23 inch row spacing)* Δ 16-SOIC Package; *(W) = .29 inch row spacing and (N) = .15 inch row spacing*

(Continued)

N

Fig. 16

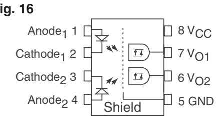

Fig. 17

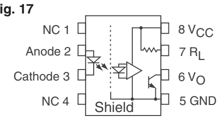

Fig. 18

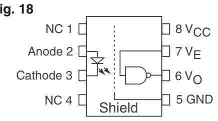

Fig. 19

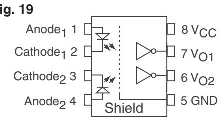

Fig. 20

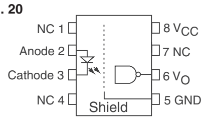

Logic Gate - 2.5MBd, 5MBd, 8MBd

Fig.	Package▲	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel§ Qty.	Pricing	Avago Part No.
12	8-SMD	1,000V/µs	20	3,750	516-1054-5-ND	3.96	35.03	271.20	—	—	HCPL-2200#300
13	8-SOIC	1,000V/µs	20	3,750	516-1055-5-ND	4.13	36.58	283.20	—	—	HCPL-0201
RoHS Compliant											
12	8-DIP	1,000V/µs	20	3,750	516-1647-5-ND	3.89	34.41	266.40	—	—	HCPL-2200-000E
	8-SMD	1,000V/µs	20	3,750	516-1648-1-ND◊	3.96	35.03	271.20	1,000	1695.00	HCPL-2200-500E
13	8-SOIC	1,000V/µs	20	3,750	516-1483-1-ND◊	4.20	37.20	288.00	1,500	1800.00/M	HCPL-0201-500E
	8-SOIC	1,000V/µs	20	3,750	516-1704-5-ND	4.13	36.58	283.20	—	—	HCPL-0201-000E
	8-SOIC	5,000V/µs	20	3,750	516-1625-5-ND	4.76	42.16	326.40	—	—	HCPL-0211-000E
	8-DIP	1,000V/µs	20	3,750	516-1649-5-ND	3.78	33.48	259.20	—	—	HCPL-2201-000E
	8-DIP	5,000V/µs	20	3,750	516-1537-5-ND	4.27	37.82	292.80	—	—	HCPL-2211-000E
	8-DIP(W)	1,000V/µs	20	3,750	516-1614-5-ND	4.52	39.99	309.60	—	—	HCNW2201-000E
	8-DIP(W)	5,000V/µs	20	3,750	516-1615-5-ND	4.90	43.40	336.00	—	—	HCNW2211-000E
	8-SMD(W)	5,000V/µs	20	3,750	516-1616-5-ND	4.97	44.02	340.80	—	—	HCNW2211-300E
14	8-DIP	1,000V/µs	20	3,750	516-1650-5-ND	3.78	33.48	259.20	—	—	HCPL-2202-000E
	8-DIP	5,000V/µs	20	3,750	516-1651-5-ND	4.27	37.82	292.80	—	—	HCPL-2212-000E
15	8-SMD	5,000V/µs	20	3,750	516-1741-5-ND	4.34	38.44	297.60	—	—	HCPL-2211-300E
16	8-DIP	1,000V/µs	20	3,750	516-1582-5-ND	9.02	81.78	648.60	—	—	HCPL-2231-000E
	8-SMD	1,000V/µs	20	3,750	516-1652-5-ND	9.09	82.36	653.20	—	—	HCPL-2231-300E
	8-DIP	5,000V/µs	20	3,750	516-1473-5-ND	11.68	105.85	839.50	—	—	HCPL-2232-000E
	8-SMD	5,000V/µs	20	3,750	516-1653-5-ND	11.74	106.43	844.10	—	—	HCPL-2232-300E
17	8-ESOP	100V/µs	5	3,750	516-1626-5-ND†	8.10	75.00	570.00	—	—	HCPL-0300-000E
	8-DIP	100V/µs	5	3,750	516-1538-5-ND†	6.93	63.53	485.10	—	—	HCPL-2300-000E
	8-SMD	100V/µs	5	3,750	516-1654-5-ND†	6.99	64.08	489.30	—	—	HCPL-2300-300E

Logic Gate - 10MBd

Fig.	OE	Package▲	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel§ Qty.	Pricing	Avago Part No.
18	Yes	8-SMD	10,000V/µs	5	3,750	516-1079-5-ND	2.89	25.41	215.60	—	—	HCPL-2611#300
20	No	8-DIP	5,000V/µs	5	3,750	516-1099-5-ND	3.61	32.25	264.45	—	—	HCPL-7611
RoHS Compliant												
18	Yes	8-DIP	N/A	5	3,750	516-1521-5-ND	1.88	16.50	140.00	—	—	6N137-000E
	Yes	8-SMD	N/A	5	3,750	516-1599-5-ND	1.95	17.16	145.60	—	—	6N137-300E
	Yes	8-SMD	1,000V/µs	5	3,750	516-1772-1-ND◊	1.95	17.16	145.60	1,000	910.00	6N137-500E
	Yes	8-SOIC	5,000V/µs	5	3,750	516-1734-5-ND	2.63	23.10	196.00	—	—	HCPL-0600-000E
	Yes	8-SOIC	N/A	5	3,750	516-1485-1-ND◊	2.70	23.76	201.60	1,500	1260.00/M	HCPL-0600-500E
	Yes	8-DIP(W)	N/A	5	5,000	516-1611-5-ND	3.39	31.08	237.30	—	—	HCNW137-000E
	Yes	8-SOIC	5,000V/µs	5	3,750	516-1471-5-ND	2.63	23.10	196.00	—	—	HCPL-0601-000E
	Yes	8-SOIC	10,000V/µs	5	3,750	516-1774-1-ND◊	2.70	23.76	201.60	1,500	1260.00/M	HCPL-0601-500E
	Yes	8-DIP	5,000V/µs	5	3,750	516-1540-5-ND	2.51	22.11	187.60	—	—	HCPL-2601-000E
	Yes	8-SMD	5,000V/µs	5	3,750	516-1661-5-ND	2.59	22.77	193.20	—	—	HCPL-2601-300E
	Yes	8-DIP	10,000V/µs	5	3,750	516-1663-5-ND	2.81	24.75	210.00	—	—	HCPL-2611-000E
	Yes	8-SOIC	10,000V/µs	5	3,750	516-1486-1-ND◊	3.45	30.36	257.60	1,500	1610.00/M	HCPL-0611-500E
	Yes	8-SMD	10,000V/µs	5.5	3,750	516-1873-5-ND	3.39	31.08	237.30	—	—	HCNW2601-300E
	Yes	8-DIP(W)	10,000V/µs	5	5,000	516-1618-5-ND	4.35	39.88	304.50	—	—	HCNW2611-000E
	Yes	8-SMD(W)	10,000V/µs	5	5,000	516-1619-5-ND	4.41	40.43	308.70	—	—	HCNW2611-300E
	Yes	8-SOIC	1,000V/µs	5	3,750	516-1635-5-ND	3.61	31.93	247.20	—	—	HCPL-061A-000E
	Yes	8-SOIC	1,000V/µs	5	3,750	516-1579-5-ND	3.85	34.10	264.00	—	—	HCPL-061N-000E
19	No	8-DIP	N/A	5	3,750	516-1475-5-ND	4.38	38.75	300.00	—	—	HCPL-2630-000E
	No	8-SMD	N/A	5	3,750	516-1665-5-ND	4.45	39.37	304.80	—	—	HCPL-2630-300E
	No	8-SOIC	5,000V/µs	5	3,750	516-1735-5-ND	6.37	56.42	436.80	—	—	HCPL-0630-000E
	No	8-SOIC	N/A	5	3,750	516-1487-1-ND◊	6.44	57.04	441.60	1,500	2760.00/M	HCPL-0630-500E
	No	8-DIP	5,000V/µs	5	3,750	516-1541-5-ND	4.73	41.85	324.00	—	—	HCPL-2631-000E
	No	8-SMD	5,000V/µs	5	3,750	516-1666-5-ND	4.80	42.47	328.80	—	—	HCPL-2631-300E
	No	8-SOIC	5,000V/µs	5	3,750	516-1580-1-ND◊	6.44	57.04	441.60	1,500	2760.00/M	HCPL-0631-500E
	No	8-SOIC	5,000V/µs	5	3,750	516-1472-5-ND	6.37	56.42	436.80	—	—	HCPL-0631-000E
	No	8-DIP	10,000V/µs	5	3,750	516-1680-5-ND	7.84	69.44	537.60	—	—	HCPL-4661-000E
	No	8-SOIC	10,000V/µs	5	3,750	516-1533-5-ND	9.60	87.00	690.00	—	—	HCPL-0661-000E
	No	8-DIP	1,000V/µs	5	3,750	516-1667-5-ND	6.83	60.45	468.00	—	—	HCPL-263A-000E
	No	8-SOIC	1,000V/µs	5	3,750	516-1531-5-ND	8.23	72.85	564.00	—	—	HCPL-063A-000E
	No	8-SOIC	1,000V/µs	5	3,750	516-1532-5-ND	9.92	89.90	713.00	—	—	HCPL-063N-000E
21	—	5-SOIC	15,000V/µs	5.5	3,750	516-1979-1-ND	7.25	64.17	496.80	—	—	ACPL-M61T-500E
22	No	5-SOIC	N/A	5	3,750	516-1692-5-ND	2.81	24.75	210.00	—	—	HCPL-M600-000E
	No	5-SOIC	10,000V/µs	5	3,750	516-1554-5-ND	3.56	31.35	266.00	—	—	HCPL-M611-000E

Logic Gate - 15MBd

Fig.	OE	Package	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Bulk Pricing 1	10	100	Tape and Reel§ Pricing 1,500	Avago Part No.
18	Yes	8-DIP	15,000V/µs	3.3	3,750	516-1101-5-ND	3.23	28.38	240.80	—	HCPL-260L
RoHS Compliant											
18	Yes	8-SOIC	15,000V/µs	3.3	3,750	516-1633-5-ND	3.00	26.40	224.00	—	HCPL-060L-000E
19	No	8-DIP	15,000V/µs	3.3	3,750	516-1668-5-ND	5.60	49.60	384.00	—	HCPL-263L-000E
	No	8-SOIC	15,000V/µs	3.3	3,750	516-1581-5-ND	7.00	62.00	480.00	—	HCPL-063L-000E
	No	8-SOIC	15,000V/µs	3.3	3,750	516-1775-1-ND◊	7.07	62.62	484.80	3030.00/M	HCPL-063L-500E
	—	8-DIP	1,000V/µs	2	—	516-1877-5-ND	71.20	668.83	6041.00	—	HCPL-5730
23	No	8-SOIC	10,000V/µs	5	2,500	516-1602-5-ND	4.20	38.50	294.00	—	ACSL-6210-00RE
24	No	16-SOIC	10,000V/µs	5	2,500	516-1603-5-ND	7.56	70.00	532.00	—	ACSL-6400-00TE
25	No	16-SOIC	10,000V/µs	5	2,500	516-1733-5-ND	8.10	75.00	570.00	—	ACSL-6420-00TE

Fig. 21

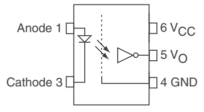

Fig. 22

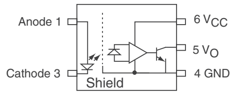

Fig. 23

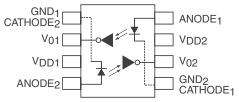

Fig. 24

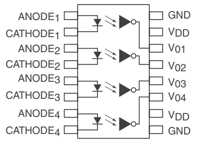

Fig. 25

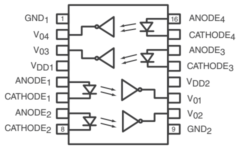

Fig. 26

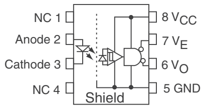

Fig. 27

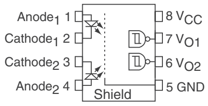

Fig. 28

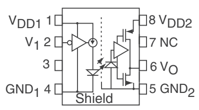

† 8MBd ◊ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND ‡ JEDEC registered data ▲ 8-SMD = PDip Package with Gullwing Leads; *(W) = 0.4 inch row spacing and (N) = 0.23 inch row spacing)* Δ 16-SOIC Package; *(W) = .29 inch row spacing and (N) = .15 inch row spacing*

(Continued)

Fig. 29

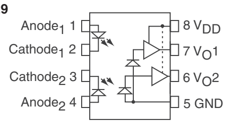

Fig. 30

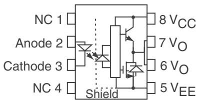

Fig. 31

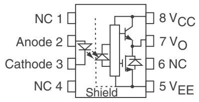

Fig. 32

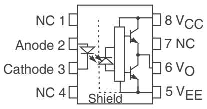

Logic Gate - 20MBd

Fig.	OE	Package	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
26	Yes	8-DIP	1,000V/µs	5	3,750	516-1655-5-ND	7.42	65.72	508.80	HCPL-2400-000E
	Yes	8-SMD	1,000V/µs	5	3,750	516-1656-5-ND	7.42	65.72	508.80	HCPL-2400-300E
27	No	8-DIP	1,000V/µs	5	3,750	516-1539-5-ND	15.36	139.20	1104.00	HCPL-2430-000E
	No	8-SMD	1,000V/µs	5	3,750	516-1657-5-ND	15.42	139.78	1108.60	HCPL-2430-300E

High Speed CMOS

Fig.	Package	Transfer Rate (Mb/s)	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
28	8-SOIC	50	10,000V/µs	5	3,750	516-1640-5-ND	8.06	73.08	579.60	HCPL-0723-000E
	8-SOIC	25	10,000V/µs	5	3,750	516-1732-5-ND	5.60	49.60	384.00	ACPL-072L-000E
	8-DIP	25	10,000V/µs	5	3,750	516-1550-5-ND	7.70	68.20	528.00	HCPL-7721-000E
	8-SOIC	25	10,000V/µs	5	3,750	516-1639-5-ND	8.05	71.30	552.00	HCPL-0721-000E
	8-DIP	25	10,000V/µs	5	3,750	516-1689-5-ND	7.00	62.00	480.00	HCPL-7720-000E
	8-SOIC	25	10,000V/µs	5	3,750	516-1534-5-ND	7.35	65.10	504.00	HCPL-0720-000E
	8-DIP	12.5	10,000V/µs	5	3,750	516-1480-5-ND	6.30	55.80	432.00	HCPL-7710-000E
	8-SMD	12.5	10,000V/µs	5	3,750	516-1688-5-ND	6.37	56.42	436.80	HCPL-7710-300E
	8-SOIC	12.5	10,000V/µs	5	3,750	516-1705-5-ND	6.65	58.90	456.00	HCPL-0710-000E
	8-SOIC	12.5	10,000V/µs	5	3,750	516-1489-1-ND◊	5.76	51.84	422.40	HCPL-0710-500E
29	8-SOIC	15	10,000V/µs	5	3,750	516-1536-5-ND	8.96	81.20	644.00	HCPL-0738-000E

Integrated Driver

Fig.	Package▲	Input Current	Output Current	Supply Voltage (V)	Isolated Voltage	Delay Time	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Pricing 1,000	Avago Part No.
30	8-DIP	7mA	2.0A	30	3,750	0.50µs	516-1123-5-ND	4.73	41.85	324.00	—	HCPL-J312
	8-DIP	7mA	0.6A	30	3,750	0.50µs	516-1125-5-ND	3.78	33.48	259.20	—	HCPL-3150
RoHS Compliant												
30	8-DIP	7mA	2.5A	30	3,750	0.50µs	516-1476-5-ND	3.68	32.34	274.40	—	HCPL-3120-000E
	8-SMD	7mA	2.5A	30	3,750	0.50µs	516-1544-5-ND	3.50	31.00	240.00	—	HCPL-3120-300E
31	8-DIP(W)	7mA	2.5A	30	3,750	0.50µs	516-1470-5-ND	5.43	48.05	372.00	—	HCNW3120-000E
30	8-DIP	7mA	0.6A	30	3,750	0.50µs	516-1742-5-ND	3.78	33.48	259.20	—	HCPL-3150-000E
	8-DIP	10mA	2.0A	20	3,750	0.20µs	516-1674-5-ND	4.38	38.75	300.00	—	HCPL-3180-000E
	8-SMD	10mA	2.0A	20	3,750	0.20µs	516-1675-5-ND	4.45	39.37	304.80	—	HCPL-3180-300E
	8-SMD	7mA	2.5A	30	2,500	0.30µs	516-1789-1-ND◊	3.50	31.00	240.00	1350.00	HCPL-3120-500
	8-DIP	16mA	2.5A	30	3,750	0.30µs	516-1879-5-ND	4.05	37.13	283.50	—	HCPL-J312-000E
32	8-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1527-5-ND	2.81	24.75	210.00	—	HCPL-0314-000E
33	8-DIP	8mA	0.4A	30	3,750	0.70µs	516-1583-5-ND	2.70	23.76	201.60	—	HCPL-3140-000E
	16-SOIC	7mA	0.5A	30	3,750	0.50µs	516-1673-5-ND	8.33	73.78	571.20	—	HCPL-315J-000E
34	16-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1477-5-ND	4.20	37.20	288.00	—	HCPL-314J-000E
—	16-SOIC	1µA	2.0A	30	3,750	0.50µs	516-1478-5-ND	7.18	66.50	505.40	—	HCPL-316J-000E

AC/DC Logic Interface

Fig.	Package	Hysteresis (Typ.)	Delay Time	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
35	8-SMD	0.6mA	40µs	18	3,750	516-1134-5-ND	6.97	64.50	490.20	HCPL-3760#300
RoHS Compliant										
35	8-SOIC	1.2mA	40µs	18	3,750	516-1627-ND	5.01	44.33	343.20	HCPL-0370-000E
	8-DIP	1.2mA	40µs	18	3,750	516-1545-5-ND	4.97	44.02	340.80	HCPL-3700-000E
	8-SMD	1.2mA	40µs	18	3,750	516-1676-5-ND	5.04	44.64	345.60	HCPL-3700-300E
	8-DIP	0.6mA	40µs	18	3,750	516-1677-5-ND	6.91	64.00	486.40	HCPL-3760-000E
	8-SMD	0.6mA	40µs	18	3,750	516-1743-5-ND	6.97	64.50	490.20	HCPL-3760-300E

High Linearity Analog

Fig.	Package▲	Current Transfer Ratio (%)	Reverse Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Pricing 750	Avago Part No.
36	8-DIP(W)	0.25 ~ 0.75	-15	5,000	516-1522-5-ND	4.66	41.23	319.20	—	HCNR200-000E
	8-DIP(W)	0.36 ~ 0.72	-15	5,000	516-1523-5-ND	6.20	54.87	424.80	—	HCNR201-000E
	8-SMD	0.25 ~ 0.75	-15	5,000	516-1608-5-ND	4.73	41.85	324.00	—	HCNR200-300E
	8-SMD	0.36 ~ 0.72	-15	5,000	516-1609-5-ND	6.27	55.49	429.60	—	HCNR201-300E
	8-SMD(W)	0.36 ~ 0.72	-15	5,000	516-1773-1-ND◊	6.27	55.49	429.60	2228.55	HCNR201-500E

Miniature Analog Isolation Amplifiers

Fig.	Package	Gain Tol.	Delay Time	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
37	8-SMD	±5%	9.90µs	6	3,750	516-1138-5-ND	6.02	53.32	412.80	HCPL-7520-300
RoHS Compliant										
37	8-DIP	±3%	9.90µs	6	3,750	516-1682-5-ND	6.48	57.35	444.00	HCPL-7510-000E
	8-SMD	±3%	9.90µs	6	3,750	516-1683-5-ND	6.55	57.97	448.80	HCPL-7510-300E
	8-DIP	±5%	9.90µs	6	3,750	516-1684-5-ND	5.95	52.70	408.00	HCPL-7520-000E
	8-DIP	±3%	9.90µs	5	3,750	516-1481-5-ND	11.69	108.25	822.70	HCPL-7800-000E
	8-SMD	±3%	9.90µs	5	3,750	516-1551-5-ND	11.75	108.75	826.50	HCPL-7800-300E
	8-DIP	±1%	9.90µs	5	3,750	516-1552-5-ND	14.08	132.31	985.25	HCPL-7800A-000E
	8-SMD	±1%	9.90µs	5	3,750	516-1553-5-ND	14.13	132.78	988.75	HCPL-7800A-300E
	8-DIP	±5%	9.90µs	5	3,750	516-1482-5-ND	6.86	63.50	482.60	HCPL-7840-000E
	8-SMD	±5%	9.90µs	5	3,750	516-1690-5-ND	6.91	64.00	486.40	HCPL-7840-300E

Fig. 33

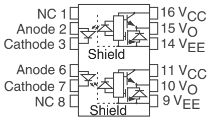

Fig. 34

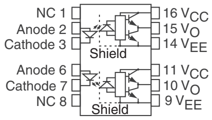

Fig. 35

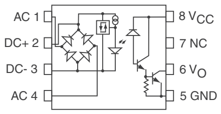

Fig. 36

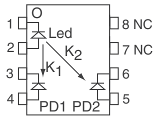

Fig. 37

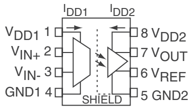

Fig. 38

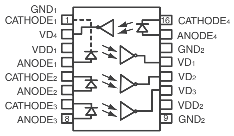

Fig. 39

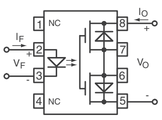

† 8MBd ◊ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND ‡ JEDEC registered data ▲ 8-SMD = PDip Package with Gullwing Leads; *(W) = 0.4 inch row spacing and (N) = 0.23 inch row spacing)* Δ 16-SOIC Package; *(W) = .29 inch row spacing and (N) = .15 inch row spacing*

(Continued)

Fig. 40

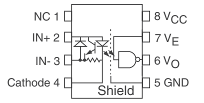

Fig. 41

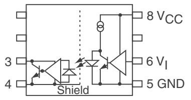

Fig. 42

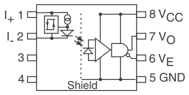

Fig. 43

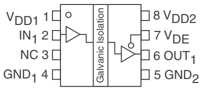

Fig. 44

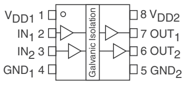

Miniature Analog Isolation Amplifiers *(Cont.)*

Fig.	Package	Gain Tol.	Delay Time	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
38	16-SOIC	—	52.00ns	5.5	2,500	516-1839-ND	8.10	75.00	570.00	ACSL-6410-00TE
39	8-DIP	—	—	1.24	—	516-1943-5-ND	80.10	750.90	6758.10	HSSR-7110
	8-SMD	—	—	1.24	—	516-1944-5-ND	81.70	765.90	6893.10	HSSR-7110#300
—	16-SOIC	±5%	20.00µs	5	3,750	516-1691-5-ND	9.26	85.75	651.70	HCPL-788J-000E
—	8-SOIC	±0.5%	1.7µs	5	5,000	516-2156-5-ND ***NEW!***	11.00	100.00	850.00	ACPL-C79B-000E
	8-SOIC	±1%	1.7µs	5	5,000	516-2157-5-ND ***NEW!***	10.00	90.00	740.00	ACPL-C79A-000E
	8-SOIC	±3%	1.7µs	5	5,000	516-2158-5-ND ***NEW!***	7.50	67.50	555.00	ACPL-C790-000E

Line Receivers

RoHS COMPLIANT

Fig.	Package	Delay Time	Output Current	Supply Voltage (V)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
40	8-DIP	100ns	50mA	5	3,750	516-1662-5-ND	8.13	73.66	584.20	HCPL-2602-000E
	8-DIP	100ns	50mA	5	3,750	516-1664-5-ND	12.47	115.50	877.80	HCPL-2612-000E

20mA Loop Transmitters/Receivers

RoHS COMPLIANT

Fig.	Package	Supply Voltage (V)	Delay Time	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
41	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1546-5-ND	8.10	75.00	570.00	HCPL-4100-000E
42	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1547-5-ND	8.10	75.00	570.00	HCPL-4200-000E

Digital Isolators

Fig.	PackageΔ	No. of Circuits	Transfer Rate (Bits, Bytes)	Supply Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
43	8-SOIC	1	100MBd	3.0 ~ 5.5	516-1150-5-ND	5.95	52.70	408.00	HCPL-0900
44	8-SOIC	2	100MBd	3.0 ~ 5.5	516-1151-5-ND	8.00	72.50	575.00	HCPL-0930
45	16-SOIC(N)	4	100MBd	3.0 ~ 5.5	516-1152-5-ND	11.52	104.40	828.00	HCPL-090J
46	16-SOIC(N)	4	100MBd	3.0 ~ 5.5	516-1153-5-ND	11.52	104.40	828.00	HCPL-092J
RoHS Compliant									
43	8-SOIC	1	100MBd	3.0 ~ 5.5	516-1736-5-ND	5.95	52.70	408.00	HCPL-0900-000E
44	8-SOIC	2	100MBd	3.0 ~ 5.5	516-1739-5-ND	8.00	72.50	575.00	HCPL-0930-000E
47	8-SOIC	2	100MBd	3.0 ~ 5.5	516-1740-5-ND	8.00	72.50	575.00	HCPL-0931-000E
45	16-SOIC(W)	4	100MBd	3.0 ~ 5.5	516-1744-5-ND	11.52	104.40	828.00	HCPL-900J-000E
	16-SOIC(N)	4	100MBd	3.0 ~ 5.5	516-1875-5-ND	9.72	90.00	684.00	HCPL-090J-000E
48	16-SOIC(N)	4	100MBd	3.0 ~ 5.5	516-1737-5-ND	11.52	104.40	828.00	HCPL-091J-000E
46	16-SOIC(N)	4	100MBd	3.0 ~ 5.5	516-1738-5-ND	11.52	104.40	828.00	HCPL-092J-000E

2.5 Amp Optocoupler with Integrated Desaturation Detection and Fault Status Feedback

RoHS COMPLIANT

Fig.	Package	Number of Channels	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Operating Temperature (°C)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Pricing 850	Avago Part No.
49	16-SOIC	2	15,000 V/µs	4.5 ~ 5.5	3,750	-40 ~ 100	516-1777-1-ND	8.16	72.23	559.20	3132.25	HCPL-316J-500E

Mouse Sensor

RoHS COMPLIANT

Fig.	Package	Supply Voltage	Rise/Fall Time (ns)	Supply Current (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
50	8-DIP	5V	30/16	15 ~ 30	516-1843-ND	1.87	17.55	140.40	ADNS-2610

General Purpose SSR Photo MOSFET

RoHS COMPLIANT

Fig.	Package	Output Voltage	Output Current (A)	TON/TOFF Typical (ms)	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
51	4-SOIC	60V	0.6	0.1/0.02	3,750	516-2006-ND	3.57	32.73	249.90	ASSR-1410-003E
	4-SOIC	60V	1.0	0.25/0.02	3,750	516-2007-ND	5.79	53.08	405.30	ASSR-1510-003E

NEW! 2.5 Amp Output Current IGBT Gate Drive Optocoupler

RoHS COMPLIANT

Fig.	Package	Number of Channels	Common Mode Rejection	Supply Voltage (V)	Isolated Voltage	Operating Temperature (°C)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
10	SO-8	2	15KV/µs	2.7 ~ 24	3,750	-40 ~ 105	516-2161-5-ND	3.78	33.75	276.75	ACPL-054L-000E
52	8-SOIC	1	40KV/µs	15 ~ 30	5,000	-40 ~ 105	516-2159-5-ND	3.08	27.50	225.50	ACPL-K342-000E

† 8MBd ◊ Cut Tape § For Tape and Reel part number, change 1-ND to 2-ND ‡ JEDEC registered data ▲ 8-SMD = PDip Package with Gullwing Leads; *(W) = 0.4 inch row spacing and (N) = 0.23 inch row spacing)* Δ 16-SOIC Package; *(W) = .29 inch row spacing and (N) = .15 inch row spacing*

Fig. 45

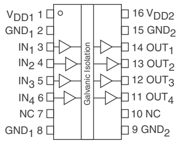

Fig. 46

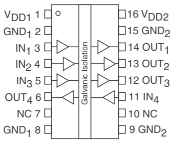

Fig. 47

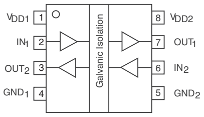

Fig. 48

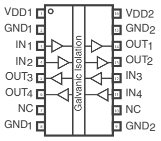

Fig. 49

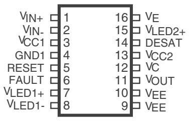

Fig. 50

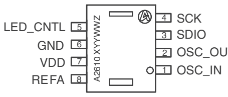

Fig. 51

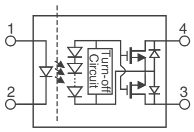

Fig. 52 ***NEW!***

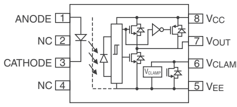

N

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

SHARP MICROELECTRONICS OF THE AMERICAS

OPIC™ Photointerrupters

Fig. 1

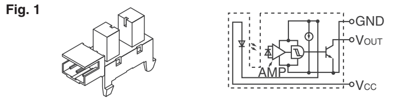

Fig. 2

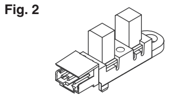

Fig. 3

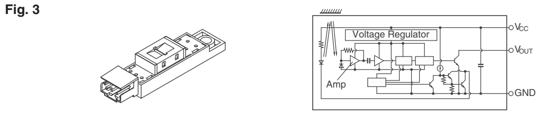

Fig. 4

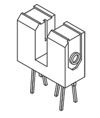

Fig. 5

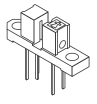

Fig. 6

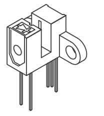

Fig.	Detector VCC (V) Max.	Icc (mA) Max.	Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	5.5	16.5	5.0	Connector	425-1771-5-ND§	2.19	1.83	1.46	GP1A073LCS
	5.5	16.5	5.0	Connector	425-1953-5-ND†	1.65	1.38	1.10	GP1A73AJ000F
2	5.5	20.0	5.0	Connector	425-2565-ND	2.22	1.85	1.48	GP1A75E3J00F
	5.5	20.0	5.0	Connector	425-1954-5-ND	1.41	1.18	.94	GP1A75EJ000F
3	5.25	30.0	1.0 ~ 9.0	Connector	425-2044-5-ND†	4.95	3.96	3.27	GP2A25J0000F
	5.25	30.0	2.0 ~ 22.0	Connector	425-2529-ND†	5.18	4.14	3.42	GP2A240LCS0F
	5.25	30.0	2.0 ~ 22.0	Connector	425-2042-ND†	5.18	4.14	3.42	GP2A200LCS0F
4	17.0	3.8	3.0	PCB	425-1950-5-ND	1.50	1.25	1.00	GP1A52HRJ00F
	17.0	3.8	3.0	PCB	425-1951-5-ND	1.59	1.33	1.06	GP1A52LRJ00F
	17.0	3.8	5.0	PCB	425-2432-5-ND	2.10	1.75	1.40	GP1A53HRJ00F
	17.0	3.8	10.0	PCB	425-1935-5-ND	2.34	1.95	1.56	GP1A57HRJ00F
	17.0	50.0	5.0	PCB	425-1952-5-ND	1.86	1.55	1.24	GP1A58HRJ00F
5	17.0	3.8	3.0	PCB	425-1948-5-ND	1.53	1.28	1.02	GP1A50HRJ00F
6	17.0	3.8	3.0	PCB	425-1949-5-ND	1.41	1.18	.94	GP1A51HRJ00F

§ Inverted † Reflective

Reflective Photointerrupters

Fig. 1

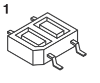

Fig. 2

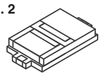

Fig. 3

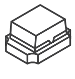

Fig. 4

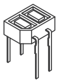

Fig.	Detector Vceo (V) Max.	IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	20/20	0.7	SMD	425-2569-1-ND†◆	1.20	1.00	.80	GP2S27T2J00F
	35	20	20/20	0.7	SMD	425-2569-2-ND‡◆	560.00/1,000			GP2S27T2J00F
	35	20	20/20	0.7	SMD	425-2570-1-ND†◆	1.17	.98	.78	GP2S27T3J00F
	35	20	20/20	0.7	SMD	425-2570-2-ND‡◆	546.00/1,000			GP2S27T3J00F
	35	20	20/20	0.7	SMD	425-2051-1-ND†◆	1.11	.93	.74	GP2S27TJ000F
	35	20	20/20	0.7	SMD	425-2051-2-ND‡◆	518.00/1,000			GP2S27TJ000F
2	35	20	20/20	0.7	SMD	425-1097-1-ND†◆	.68	.55	.38	GP2S60
	35	20	20/20	1	SMD	425-1097-2-ND‡◆	510.00/2,000			GP2S60
	35	20	20/20	0.7	SMD	425-2670-1-ND†◆	.72	.58	.40	GP2S60B
	35	20	20/20	0.7	SMD	425-2670-2-ND‡◆	540.00/2,000			GP2S60B
3	35	20	20/20	1.2 ~ 5.5	SMD	425-1913-1-ND†◆	1.17	.98	.78	GP2S700HCP
	35	20	20/20	1.2 ~ 5.5	SMD	425-1913-2-ND‡◆	546.00/1,000			GP2S700HCP
4	35	20	20/20	0.7	PCB	425-2567-5-ND◆	.90	.75	.60	GP2S24BJ000F
	35	20	20/20	0.7	PCB	425-2568-5-ND◆	.90	.75	.60	GP2S24CJ000F
	35	20	20/20	0.7	PCB	425-2050-5-ND◆	.84	.70	.56	GP2S24J0000F
	35	50	80/70	0.7	PCB	425-2049-5-ND◆	.96	.80	.64	GP2L24J0000F

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Photointerrupters

Fig. 1

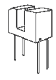

Fig. 2

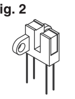

Fig. 3

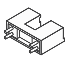

Fig. 4

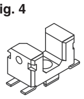

Fig. 5

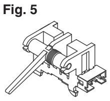

Fig. 6

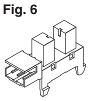

Fig.	Detector Vceo (V) Max.	IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	3/4	3.0	PCB	425-1971-5-ND◆	.90	.75	.60	GP1S52VJ000F
	35	20	3/4	4.2	PCB	425-1976-5-ND◆	1.14	.95	.76	GP1S59J0000F
	35	20	3/4	5.0	PCB	425-1972-ND◆	.87	.73	.58	GP1S53VJ000F
	35	20	3/4	5.0	PCB	425-1975-5-ND◆	.90	.75	.60	GP1S58VJ000F
	35	20	35/35	1.6	PCB	425-1978-5-ND◆	1.23	1.03	.82	GP1S95J0000F
	35	20	35/35	1.6	PCB	425-1062-5-ND	1.03	.87	.62	GP1S95
1	35	20	38/48	2.0	PCB	425-1973-5-ND◆	1.47	1.23	.98	GP1S560J000F
	35	20	38/48	2.0	PCB	425-1974-5-ND◆	1.05	.88	.70	GP1S56TJ000F
	35	20	50/50	1.0	PCB	425-1965-5-ND◆	.42	.35	.26	GP1S096HCZ0F
	35	20	50/50	2.0	PCB	425-1963-5-ND◆	.56	.45	.31	GP1S093HCZ0F
	35	20	50/50	2.0	PCB	425-1966-5-ND◆	.56	.45	.31	GP1S097HCZ0F
	35	20	50/50	3.0	PCB	425-1964-5-ND◆	.56	.45	.31	GP1S094HCZ0F
	35	20	150/150	1.1	PCB	425-2509-5-ND◆§	.56	.45	.31	GP1S196HCZ0F
	35	20	150/150	1.1	SMT	425-2510-5-ND◆§	.51	.43	.31	GP1S196HCZSF
2	35	20	3/4	3.0	PCB	425-1970-5-ND◆	1.05	.88	.70	GP1S51VJ000F
3	10	20	2/2	5.0	PCB	425-2680-5-ND◆	1.00	.80	.55	GP1S525XJ00F
4	35	20	50/50	2.0	PCB	425-1962-1-ND†◆	.72	.58	.40	GP1S092HCPIF
	35	20	50/50	2.0	PCB	425-1962-2-ND‡◆	540.00/2,000			GP1S092HCPIF
5	35	20	3/3	—	Conn.	425-1934-ND◆	2.48	2.08	1.49	GP1S44S1J00F
6	35	20	3/4	5.0	Conn.	425-2449-ND◆	1.11	.93	.74	GP1S73P2J00F
	35	20	3/4	5.0	Conn.	425-2450-5-ND◆	1.20	1.00	.80	GP1S74PJ000F

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Low profile

NKK SWITCHES

Contactless Tilt Switches

DSB SERIES:
Photointerrupter, rather than contacts, ensures high reliability. Sealed construction for protection from environmental elements, including hydrogen sulfide, sulfur dioxide, and nitrogen hydroxide. Terminals are made of ammonia resistent materials. The switch is triggered when tilted beyond 30° in any direction

Specifications: • Mechanical and Electrical Life: 150,000 Operations Minimum • Forward Current: 20mA • Forward Voltage: 1.3V • Operating Temperature: -25°C ~ 80°C

Note: Prevent exposure to magnetic fields. Do not install switch near vibration source.

DSA SERIES:
Environmentally friendly, contains no mercury • High contact reliability due to sealed body • The switch is triggered when tilted beyond ±10° of the horizontal **Specifications:** • Resistive Load: 0.1A@ 12VDC • Mechanical Life: 100,000 operations minimum • Operating Temperature: -10°C ~ 70°C

Dim. in Inches (mm)

Fig. 1

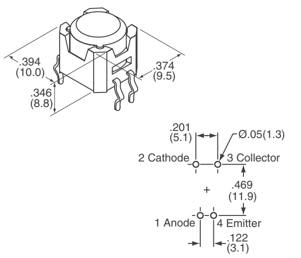

Fig. 2

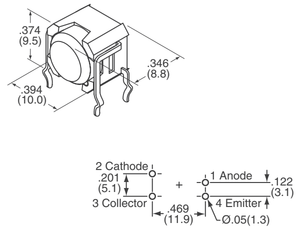

Fig. 3

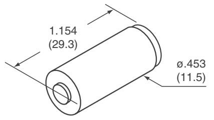

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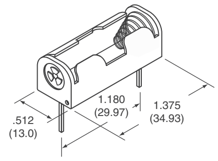

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	Tilt Switch, Straight	360-2187-ND	6.58	4.55	4.03	DSBA1P
2	Tilt Switch, Right Angle	360-2188-ND	6.58	4.55	4.03	DSBA1H
3	Tilt Switch, SPST, On/Off	360-2291-ND	7.92	5.61	4.95	DSA01
4	PCB Adaptor for DSA01	360-2292-ND	3.36	2.08	1.83	AT094

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel Pricing‡	JST Part No.
3-Pos., 2.5mm, Disconnectable Crimp Style NH Connector	455-1120-ND◆	.08	.74	6.13	—	H3P-SHF-AA
Tin-Plated Phosphor Bronze Crimp Contact, 22-28AWG	455-1121-1-ND◆	.04	.38	3.14	94.20/5,000	SHF-001T-0.8BS
Crimp Tool with Die for 22-28AWG Contacts	455-1122-ND	466.56/1			—	WC-122

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change 1-ND to 2-ND.

SHARP
MICROELECTRONICS OF THE AMERICAS

IR Phototransistors and Photodiodes

Fig. 1

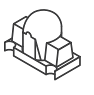

Fig. 2

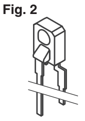

Fig. 3

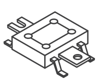

Phototransistors

Fig.	Vceo Max. (V)	IC (mA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/Fall Typ. (µs)	Beam Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	35	20	860	400/300	30	425-2665-1-ND◆†◊	.56	.45	.31	PT100MF1MP1
	35	20	900	5.0/6.0	30	425-1005-1-ND◆†	.48	.39	.27	PT100MC0MP
	35	20	900	5.0/6.0	30	425-1005-2-ND◆‡	324.00/2,000			PT100MC0MP
2	35	50	800	80/70	26	425-1013-5-ND§	.39	.33	.24	PT481
	35	50	800	80/70	26	425-2382-5-ND◆§◊	.39	.33	.24	PT481E00000F

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Transparent blue resin ◊ Darlington

Photodiodes

Fig.	Vr Max. (V)	Short Circuit Current Is (µA) Typ.	Dark Current Id Max. (nA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/Fall Typ. (ns)	Beam Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Sharp Part No.
1	20	0.6	10	850	10	40	425-1028-1-ND◆§	.48	.39	.27	PD100MF0MP
	20	0.6	10	850	10	40	425-1028-2-ND◆‡§	324.00/2,000			PD100MF0MP
3	30	9.2	2.0	940	5	—	425-1030-5-ND†	.93	.78	.56	PD3122F
	30	9.2	2.0	940	5	—	425-2215-5-ND◆†	.93	.78	.56	PD3122FE000F

◆ ***RoHS Compliant*** ‡ Tape and Reel † Tube § Visible Light cut-off resin, black

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel Pricing‡ 13,000	JST Part No.
6-Pos., 1.5mm, Disconnectable Crimp Style ZH Connector	455-1129-ND◆	.10	.89	7.40	—	ZHR-6
Tin-Plated Phosphor Bronze Crimp Contact, 26-28AWG	455-1130-1-ND◆†	.02	.18	1.51	8.01/M	SZH-002T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND	466.56/1			—	WC-491

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

SHARP
MICROELECTRONICS OF THE AMERICAS

Compact Optical Dust Sensor

Vcc Typ. (V)	Sensi-tivity (V) Typ.	Output Current ICC (mA) Typical	Digi-Key Part No.	Price Each 1	25	100	Sharp Part No.
5	0.5	28	425-2068-ND	11.38	8.65	7.51	GP2Y1010AU0F

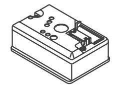

Distance Measuring Sensors

Fig. 1

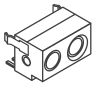

Fig. 2

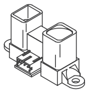

Fig. 3

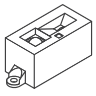

Fig.	Vcc Typ. (V)	Distance Measuring Range (cm) Typ.	Diff. of Output Voltage (V) Typ.	Output Current ICC (mA) Typ.	Output Type	Digi-Key Part No.	Price Each 1	25	100	Sharp Part No.
1	5	5	—	10.5	Digital	425-2615-5-ND	3.41	2.60	2.26	GP2Y0D805Z0F
	5	10	—	10.5	Digital	425-2616-5-ND	3.41	2.60	2.26	GP2Y0D810Z0F
2	5	70 ~ 90	—	33	Digital	425-2064-ND	10.93	8.63	7.77	GP2Y0D02YK0F
3	5	4 ~ 30	1.6	30	Analog	425-2498-ND	39.90	31.50	28.35	GP2Y3A001K0F

See below for JST Mating Connector

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel Pricing‡ 8,000	JST Part No.
3-Pos., 2.0mm, Disconnectable Crimp Style PH Connector	455-1126-ND◆	.05	.49	4.12	—	PHR-3
24-30AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1127-1-ND◆†	.03	.28	2.35	14.12/M	SPH-002T-P0.5S
Crimp Tool with Die for 24-30AWG Contacts	455-1128-ND	466.56/1			—	WC-240

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

FAIRCHILD
SEMICONDUCTOR®

Interrupter Modules and Detectors

Semiconductor Interrupter Modules

Fig.	Circuit	Output Type	Min. Ic (on) (mA)	Test Conditions If/Vce	Slot Width (mm)	Lead Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	500
1	A	Transistor	1.0	20mA @ 5V	3.18	5.59	QVA11134-ND	1.91	1.69	1.09	.88
2	A	Transistor	2.0	20mA @ 5V	3.15	7.24	H22A2-ND	1.51	1.23	.86	.65
3	C	Transistor	0.5	20mA @ 5V	3.81	7.62	QVE11233-ND	1.93	1.71	1.11	.88

Semiconductor Infrared Photo Detectors

Fig.	Circuit	BVCEO (V)	Min. Ic @ 5Vce (mA)	Rise/Fall (µ sec)	Reception Angle ± (°)	Peak Wavelength Sensitivity (nm)	Digi-Key Part No.	Price Each 1	10	100	500
4	D	30	1	5/5	8	880	QSC112-ND	.48	.35	.23	.17
	D	30	2	5/5	8	880	QSC113-ND	.48	.35	.23	.17
	D	30	4	5/5	8	880	QSC114-ND	.48	.35	.23	.17
5	D	30	3.2	7/7	12	880	QSD123-ND	.50	.40	.29	.22
	D	30	7.5	7/7	12	880	QSD124-ND	.50	.40	.29	.22
6	D	30	1.2	8/8	12	880	QSD722-ND	.48	.35	.23	.17
7	D	30	0.64	8/8	8	880	QSE113-ND	.54	.43	.31	.24
	B	30	0.25	8/8	25	880	QSE113E3R0CT-ND†	.75	.58	.42	.32
	B	30	0.25	8/8	25	880	QSE113E3R0TR-ND‡	401.43/2,000			
	D	30	1.28	8/8	8	880	QSE114-ND	.54	.43	.31	.24
	D	30	0.4	8/8	25	880	QSE122-ND	.71	.56	.40	.31

† Cut Tape ‡ Tape and Reel

Logic Detectors

Fig.	Circuit	Output Type	VCC	Isink (mA)	Isource (mA)	Rise/Fall (ns)	Reception Angle ± (°)	Peak Wavelength Sensitivity (nm)	Digi-Key Part No.	Price Each 1	10	100	500
8	E	O.C. BUFF	4.5 ~ 16	50	—	100	25	880	QSE158-ND	1.07	.84	.60	.46
	F	O.C. INV.	4.5 ~ 16	50	—	100	25	880	QSE159-ND	1.07	.84	.60	.46

Miniature Reflective Object Sensor

Fig.	Circuit	Sensing Distance (mm)	Sensing Method	Voltage Collector Emitter Breakdown (Max)	Current Collector Forward (IF)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel† Pricing 1,000
9	G	5	Reflective	30V	20mA	QRE1113GRCT-ND	1.22	.97	.87	482.00
10	G	5	Reflective	30V	20mA	QRE1113-ND‡ ***NEW!***	.89	.71	.62	—

† For Tape and Reel part number, change CT-ND to TR-ND ‡ Bulk

Fig. 1

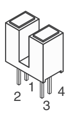

Fig. 2

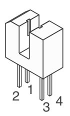

Fig. 3

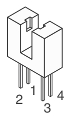

Fig. 4

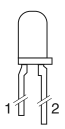

Fig. 5

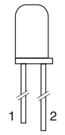

Fig. 6

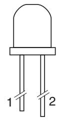

Fig. 7

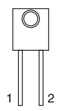

Fig. 8

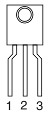

Fig. 9

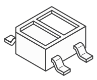

Fig. 10 ***NEW!***

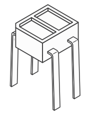

Circuits

A

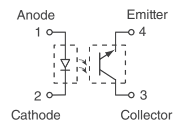

B

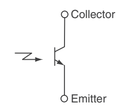

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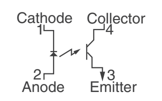

D

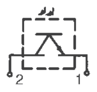

E

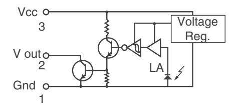

F

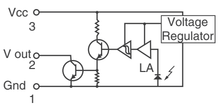

G

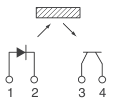

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TOSHIBA

Leading Innovation

Illumination Sensors and Photointerrupter

Dim in mm

Illumination Sensors: SMD Photo-ICs for illuminance sensor which consist of one chip integrated photo-diode and amplifier circuit **Features:** • Small SMD package • Suitable for lead-free soldering and reflow soldering • Low supply voltage: VCC = 2.7V~5.5V

Photointerrupter: Consisting of GaAs infrared LED and Si phototransistor with gap width as wide as 5mm **Features:** • High response speed: tr, tf=15µs (typical) • Package material: Polybutylene terephthalate

Fig. 1

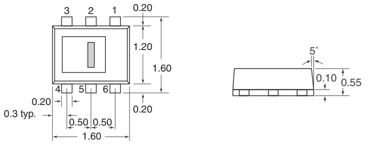

Fig. 2 ***NEW!***

Dimensions in mm

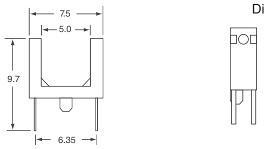

Fig.	Sensitivity (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Toshiba Part No.
			Illumination Sensors					
1	40	TPS852TCT-ND	1.37	12.24	97.20	TPS852TTR-ND	504.00/M	TPS852
			NEW! Photointerrupter NEW!					
2	—	TLP841-ND‡	.72	6.30	48.60	—	—	TLP841

‡ Tube

AVAGO TECHNOLOGIES

Encoders and Sensors

Dimensions in mm

Fig. 1

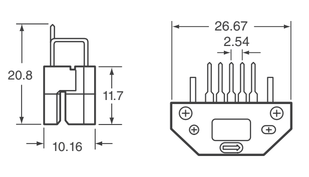

Fig. 2

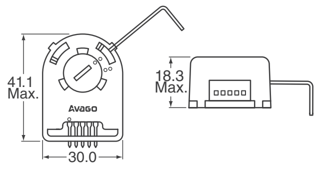

Fig. 3

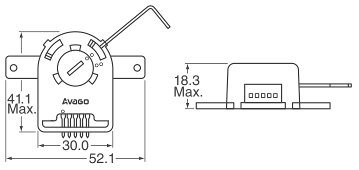

Fig. 4

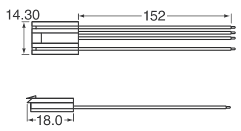

Fig. 5

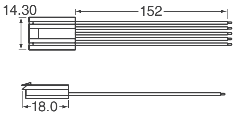

Fig. 6

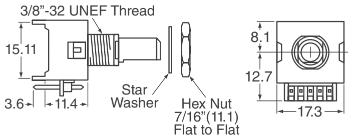

Fig. 7

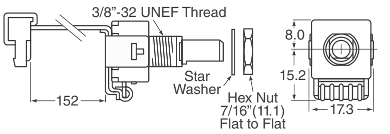

Fig. 8

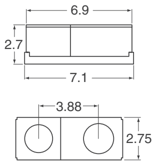

Fig. 9

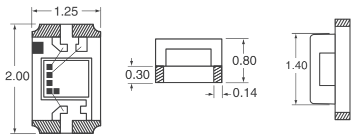

Fig. 10

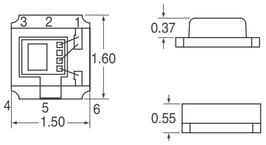

Fig. 11

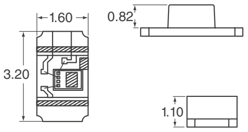

Fig. 12

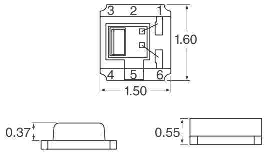

Fig. 13

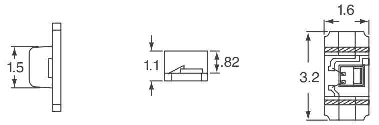

Fig. 14

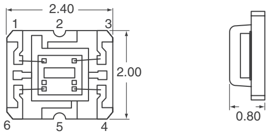

Fig. 15 ***NEW!***

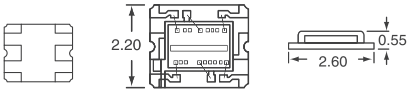

Encoder Modules

Fig.	Output	Supply Voltage Typical (V)	Supply Current (mA)	Counts per Revolution (CPR)	Rise/Fall Time (ns) (Typical)	Shaft Diameter	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
1	2-Channel	5.0	17	500	200 / 50	—	516-2029-ND	28.58	25.40	20.32	HEDS-9100#A00
	2-Channel	5.0	17	1,000	200 / 50	—	516-2030-ND	28.58	25.40	20.32	HEDS-9100#B00
	3-Channel	5.0	57	500	180 / 49	—	516-1888-ND	32.18	28.60	22.88	HEDS-9140#A00
	3-Channel	5.0	57	1,000	180 / 49	—	516-2028-ND	28.80	25.60	20.48	HEDS-9040#B00
2	2-Channel	5.0	17	500	200 / 50	1/4 Inch	516-2019-ND	51.04	48.49	35.73	HEDS-5500#A06
	2-Channel	5.0	17	500	200 / 50	4 mm	516-2020-ND	51.04	48.49	35.73	HEDS-5500#A11
	2-Channel	5.0	57	1,000	180 / 40	1/4 Inch	516-2018-ND	51.04	48.49	35.73	HEDM-5500#B06
	2-Channel	5.0	17	500	200 / 50	1/4 Inch	516-2021-ND†	51.04	48.49	35.73	HEDS-5505#A06
	3-Channel	5.0	57	500	180 / 40	1/4 Inch	516-2022-ND	51.04	48.49	35.73	HEDS-5540#A06
3	2-Channel	5.0	17	500	200 / 50	1/4 Inch	516-2023-ND‡	51.04	48.49	35.73	HEDS-5600#A06
	2-Channel	5.0	17	100	200 / 50	1/4 Inch	516-1887-ND‡	51.04	48.49	35.73	HEDS-5600#C06
	2-Channel	5.0	17	500	200 / 50	1/4 Inch	516-2024-ND‡†	51.04	48.49	35.73	HEDS-5605#A06
	3-Channel	5.0	17	500	200 / 50	1/4 Inch	516-2025-ND‡	51.04	48.49	35.73	HEDS-5640#A06
4	2-Channel Wire Assembly with Locking Connector at One End and 4 Flying Leads at the Other End						516-2026-ND	9.45	8.75	6.65	HEDS-8902
5	3-Channel Wire Assembly with Locking Connector at One End and 5 Flying Leads at the Other End						516-2027-ND	9.45	8.75	6.65	HEDS-8903

‡ With External Mounting Ears † 8.9 mm Through Hole

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Miniature Panel Mount Encoders

Fig.	Supply Voltage Max. (V)	Supply Current Max. (mA)	Counts per Revolution (CPR)	Shaft Length x Diameter (Inch)	Termination	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Avago Part No.
6	5.5	40	Smooth 120	0.50 x 0.25	Pins Rear with Bracket	516-2115-ND	34.20	30.40	24.32	HRPG-ASCA#14R
	5.5	40	Smooth 120	0.50 x 0.25 D-Cut	Pins Rear with Bracket	516-2117-ND	34.20	30.40	24.32	HRPG-ASCA#16R
7	5.5	40	Detented 32	0.50 x 0.25 D-Cut	Connector with Strain Relief	516-2113-ND	34.20	30.40	24.32	HRPG-AD32#16C
	5.5	40	Smooth 120	0.50 x 0.25	Connector with Strain Relief	516-2114-ND	34.20	30.40	24.32	HRPG-ASCA#14C
	5.5	40	Smooth 120	0.50 x 0.25 D-Cut	Connector with Strain Relief	516-2116-ND	34.20	30.40	24.32	HRPG-ASCA#16C

Surface Mount Proximity Sensor

Fig.	Forward Voltage	If (Maximum)	Supply Voltage (Maximum)	Photo Current (Typical)	Dark Current (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
8	1.5V	50mA	1.3V	0.1mA	10nA	516-1555-1-ND	2.74	2.41	2.05	516-1555-2-ND	1168.00/M	HSDL-9100-021

Ambient Light Sensors

Fig.	Supply Voltage Range	Light Current Ratio (Typical)	Rise/Fall Time (ms) (Typical)	Peak Wavelength Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
9	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1714-1-ND	1.04	.89	.76	516-1714-2-ND	455.00/M	APDS-9002-021
10	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1715-1-ND	1.20	1.02	.87	516-1715-2-ND	525.00/M	APDS-9003-020
11	2.4V ~ 5.5V	1.2	0.95 / 0.8	620	516-1716-1-ND	1.24	1.06	.90	516-1716-2-ND	542.50/M	APDS-9004-020
12	1.8V ~ 5.5V	1.1	5 / 5	500	516-1717-1-ND	1.28	1.09	.93	516-1717-2-ND	560.00/M	APDS-9005-020
13	2.4V ~ 5.5V	1.1	5 / 5	500	516-1718-1-ND	1.44	1.23	1.05	516-1718-2-ND	630.00/M	APDS-9006-020
14	2.0V ~ 3.6V	1.2	0.2 / 0.2	560	516-1719-1-ND	1.00	.85	.73	516-1719-2-ND	437.50/M	APDS-9007-020
15	2.4V ~ 3.0V	—	300ns / 300ns	640 / 940	516-2134-1-ND ***NEW!***	1.88	1.65	1.40	516-2134-2-ND ***NEW!***	650.00/M	APDS-9300-020

LITEON Infrared Emitting Diodes, Photodetectors and Photodiodes

FEATURES: Infrared Emitting Diodes: • Selected to specific on-line intensity and radiant intensity ranges • Low cost plastic end looking package • Made with gallium aluminum arsenide window layer on gallium arsenide infrared emitting diodes **Photodetectors and Photodiodes**: • Lensed for high sensitivity • Low cost plastic package

Dimensions in mm

Fig. 1

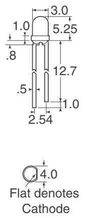

Fig. 2

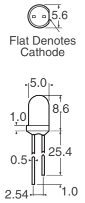

(Collector for 160-1031-ND)

Fig. 3

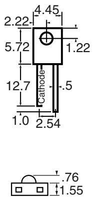

Fig. 4

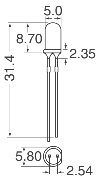

Fig. 5

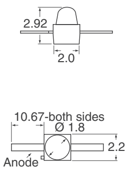

Fig. 6

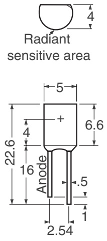

Fig. 7

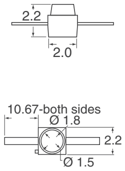

Fig. 8

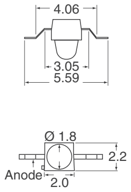

Infrared Emitting Diodes

Fig.	Vf	I (ma)	View Angle	Peak Length (nm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
1	1.20	60	20°	940	160-1028-ND	.54	3.92	25.60	LTE-4206
2	1.20	50	20°	940	160-1029-ND	.54	3.92	25.60	LTE-4208
	1.20	100	40°	940	160-1061-ND	.54	3.92	25.60	LTE-5208A
	1.30	100	35°	940	160-1062-ND	.50	3.90	28.00	LTE-5228A
3	1.20	50	40°	940	160-1063-ND	.54	3.92	25.60	LTE-302
4	1.50	100	30°	875	516-1261-ND	1.00	8.13	56.25	HSDL-4220
	1.50	100	17°	875	516-1262-ND	1.00	8.13	56.25	HSDL-4230
	1.40	100	52°	870	516-1706-ND	.65	5.07	36.40	HSDL-4261
5	1.50	100	24°	875	516-1263-ND	1.00	8.13	56.25	HSDL-4420
	1.50	100	24°	875	516-1265-1-ND‡	1.15	8.86	63.25	HSDL-4420#031
	1.50	100	24°	875	516-1265-2-ND†		517.50/1,500		HSDL-4420#031

‡ Cut Tape † Tape and Reel

Matching Photodetectors

Fig.	Vce	Vec	On-State I (ma)	Rise/Fall (us)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
1	30	5	2	5	160-1030-ND	.43	3.00	20.00	LTR-4206E
2	30	5	2	5	160-1031-ND	.51	3.68	24.00	LTR-3208E
3	30	5	1	5	160-1065-ND	.51	3.68	24.00	LTR-301

Photodiodes

Fig.	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
6	Black Plastic Diode	160-1032-ND	.70	5.43	38.75	LTR-516AD

IR Detectors

Fig.	Output Current (µA)	Dark Current (nA)	Peak Sensitivity (nm)	Forward Voltage (Typical)	View Angle	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
5	6.0	1	875	0.8V	28°	516-1267-ND	.77	5.95	42.50	HSDL-5420
7	1.6	1	875	0.8V	110°	516-1266-ND	.77	5.95	42.50	HSDL-5400
8	6.0	1	875	0.8V	28°	516-1268-1-ND‡	.90	6.93	49.50	HSDL-5420#031
8	6.0	1	875	0.8V	28°	516-1268-2-ND†		405.00/1,500		HSDL-5420#031

‡ Cut Tape † Tape and Reel Absolute Maximum Ratings at T_A = 25°C, λ = 940nm

N

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON

Amplified Mini Optical Sensors with Pin Point Beam

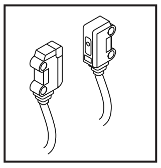

• Miniature optical sensor with "Pin-point" beam for sensing minute objects (1-2mm diameter) • Use both indoors or outdoors for detecting where small body size is desired • Perfect for security, conveyor detection as well as emergency stop detection and limit control and more • Sensor not affected by ambient light • Comes standard with 2 meter molded cords attached • Terminal Type: 2m Cable

Sensing Method	Mounting Type/Features	Distance (Max.)		Digi-Key Part No.	Price Each			Omron Part No.
		Inches	(M/mm)		1	25	100	
Through-Beam	Side/Light-On	39.37	(1M)	OR591-ND	127.21	114.49	108.13	E3T-ST11
	Side/Dark-On	39.37	(1M)	OR592-ND	127.21	114.49	108.13	E3T-ST12
Convergent Beam	Light-On	0.59	(15mm)	Z1104-ND	88.13	81.60	70.72	E3T-SL11
	Dark-On	0.59	(15mm)	Z1105-ND	88.13	81.60	70.72	E3T-SL12
Optional Flat Reflector for distances of 10-100 mm				Z2429-ND◆	8.62	7.99	6.92	E39-R37

◆ ***RoHS Compliant***

Amplified Optical Sensors

- One meter sensing distance
- Supply voltage of 5 ~ 24VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with (2) – 2m cables with connectors

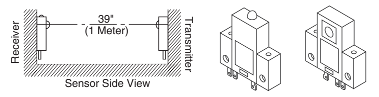

1 Meter (39 Inches) Sensing Distance!

Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on	OR544-ND	126.59	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	126.59	EE-SPW411

Long Distance Amplified Optical Sensors

Fig. 1 — Horizontal

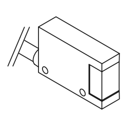

Fig. 2 — Vertical

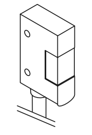

These general purpose optical sensors are small DC Sensors (10 ~ 30VDC Input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23 feet (7 meters). Ideal for conveyor systems and doorway sensing with direct interface to PLC's. Meets NEMA 4X, 6 and IP67 standards. Through-beam sensors include separate transmitter and receiver. Reflective sensors include transceiver and E39-R1 reflector. Horizontal mount sensors include mounting bracket. All sensors include mounting hardware.

Fig.	Sensing Method	Mounting Type/Features	Dist. (Max.)		Terminal Type	Digi-Key Part No.	Price Each			Omron Part No.
			Ft.	(M)			1	25	100	
1	Through-Beam	Horizontal	22.97	(7)	2m Cable	OR584-ND	292.47	263.23	210.59	E3S-AT11
	Reflective	Horizontal	6.56	(2)	2m Cable	OR585-ND	330.38	297.35	237.88	E3S-AR11
2	Through-Beam	Vertical	22.97	(7)	2m Cable	OR586-ND	233.98	210.59	198.89	E3S-AT61
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)					OR588-ND	10.76	9.69	7.75	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)					OR589-ND	25.48	22.94	21.66	E39-R5

Amplified Optical Sensors

EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.

Fig. 1

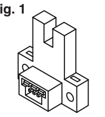

Fig. 2

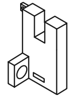

Fig. 3

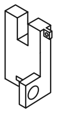

Fig. 4

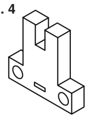

Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each			Omron Part No.
						1	25	50	
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	101.59	91.44	81.28	EE-SPX740
	Slot	3.6mm	NPN	Light-On	OR616-ND	133.76	120.39	107.02	EE-SPX840
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	101.59	91.44	81.28	EE-SPX742
	Slot	3.6mm	NPN	Light-On	OR618-ND	133.76	120.39	107.02	EE-SPX842
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	101.59	91.44	81.28	EE-SPX743
	Slot	3.6mm	NPN	Light-On	OR620-ND	133.76	120.39	107.02	EE-SPX843
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	101.59	91.44	81.28	EE-SPX741
	Slot	3.6mm	NPN	Light-On	OR622-ND	101.59	91.44	81.28	EE-SPX841
Snap-In connector w/cable for EE-SPX74/84 Series					OR623-ND◆	7.13	6.42	5.71	EE-1013

◆ ***RoHS Compliant***

Non-Amplified Optical Sensors

Fig. 1

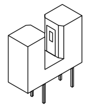

Fig. 2

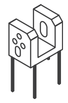

Fig. 3

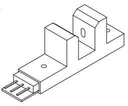

Fig.	Sensing Method	Sensing Distance	Terminal Type	Switch Time (MS)	Digi-Key Part No.	Price Each			Omron Part No.
						1	25	50	
1	Slot	5mm	PC Board	4/4	OR627-ND	1.85	1.67	1.48	EE-SX1081
	Slot	2mm	PC Board	4/4	OR624-ND	1.85	1.67	1.48	EE-SX1018
	Slot	5mm	PC Board	4/4	OR625-ND	1.85	1.67	1.48	EE-SX1041
	Slot	3.4mm	PC Board	4/4	OR626-ND	1.85	1.67	1.48	EE-SX1071
	Slot	3mm	PC Board	4/4	OR631-ND	1.85	1.67	1.48	EE-SX198NC
	Slot	3mm	PC Board	4/4	OR632-ND	1.85	1.67	1.48	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	1.35	1.22	1.09	EE-SX1103
	Slot	2mm	PC Board	10/10	OR634-ND	1.35	1.22	1.09	EE-SX1105
	Slot	3mm	PC Board	10/10	OR635-ND	1.35	1.22	1.09	EE-SX1106
3	Slot	5mm	AMP Connect	3KHz	OR629-ND	4.02	3.62	3.22	EE-SX4009-P1
	Slot	5mm	Molex Connect	3KHz	OR630-ND	4.96	4.47	3.97	EE-SX4009-P10

Non-Amplified Optical Sensors SMT

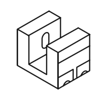

SMT compact size makes these sensors ideal for use in applications with restricted space. Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Distance	Term. Type	Type On/ Off	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Omron Part No.
					1	25	50		Qty.	Pricing	
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	1.35	1.22	1.09	OR628TR-ND	2,000	676.13/M	EE-SX1131
Slot	1mm	SMT	10/10	OR636CT-ND	1.35	1.22	1.09	OR636TR-ND	2,500	676.13/M	EE-SX1107
	2mm	SMT	10/10	OR637CT-ND	1.35	1.22	1.09	OR637TR-ND	2,000	676.13/M	EE-SX1108
	3mm	SMT	10/10	OR638CT-ND	1.35	1.22	1.09	OR638TR-ND	1,000	676.13	EE-SX1109

TDK

Visible Radiant Optical Sensors — Photodiodes

Dimensions in mm

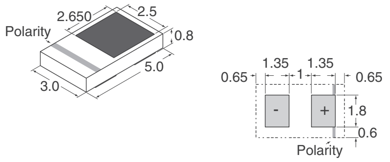

These photodiodes use an amorphous silicone semiconductor on the glass substrate. They are the most suitable for brightness adjustment and control of lighting systems.

FEATURES: • Highly receptive to visible light but not receptive to infrared light (close to human eye visibility) • Accurate illumination measurement can be taken without the use of an infrared filter

SPECIFICATIONS: • Operating Temperature: -20°C ~ 85°C • Spectral Sensitivity Area: 350 ~ 750nm • Peak of sensitivity: 580nm ±20

APPLICATIONS: • Brightness control for LCD, EL, and CRT • Brightness control for keypads (e.g., mobile phones) • Positioning scan line for rear projection TV • Exposure adjust for compact camera • Sub exposure adjust for digital camera

Max. Output Current (μA) (VR=5V)	Max. Reverse Bias Voltage (V)	Max. Dark Current (pA) VR=.05V	Digi-Key Part No.	Cut Tape Price Each		TDK Part No.
				1	10	
0.55	6	100	445-2590-1-ND	6.24	4.75	BCS5030G1

Panasonic

Panasonic Electric Works

Light Sensor — NaPiCa

Dim. in mm

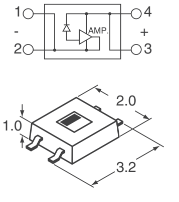

(SMT Shown)

FEATURES: • Built-in optical filter for spectral response similar to that of the human eye • Photocurrent is proportional to illumination (linear output) • Uses environmentally friendly silicon chips • Operates on 1.5 ~ 6VDC, which is suitable for battery operation.
APPLICATIONS: • Brightness detection for LCD backlight control for LCD devices (mobile phones, LCD TVs, Car navigation systems, mobile PCs and PDAs) • Brightness detection for circuits in household lighting, crime prevention lighting and automatic lighting for bicycles **RATINGS:** • **Photocurrent:** 5mA • **Operating Temperature:** -30°C ~ 85°C • **Reverse Voltage:** Minimum 1.5V, Maximum 6V • **Dark Current:** 0.3μA @ 5V

Description	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
		1	25	50			
Cadmium Free Light Sensor with Spectral Response, 4SOP SMT	255-1848-1-ND	2.23	2.05	1.82	255-1848-2-ND	1274.00/M	AMS104Y
Cadmium Free Light Sensor with Spectral Response, 4SOP SMT	255-2654-1-ND ***NEW!***	2.23	2.05	1.82	255-2654-2-ND ***NEW!***	1319.50/M	AMS104W
Cadmium Free Light Sensor with Spectral Response, T-1 RND	255-2655-ND† ***NEW!***	2.23	2.05	1.82	—	—	AMS302

† Box Packaging

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Advanced Photonix, Inc.
Previously **Photonic Detectors**

Silicon Detectors and Emitters

Fig. 1 – Ceramic, Epoxy Glob

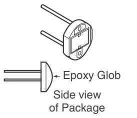

Fig. 2 – Ceramic, Epoxy Filled

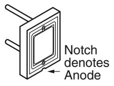

Fig. 3 – Plastic Pkg.

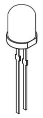

Fig. 4 – Flat Top

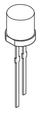

Fig. 5 – Plastic Side-looker

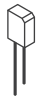

Fig. 6 – Plastic Side-looker

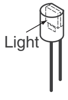

Fig. 7

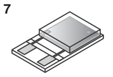

Fig. 8 – 1206 SMT Pkg.

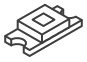

Fig. 9 – Mini SMT Pkg.

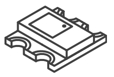

Fig. 10 ***NEW!***

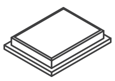

Fig. 11

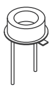

Fig. 12

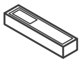

Fig. 13– Solderable Photo Cell

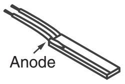

Fig. 14– Solderable Photo Cell

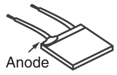

Fig. 15

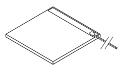

Fig. 16

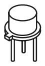

Fig. 17

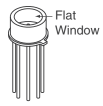

Fig. 18

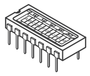

Fig. 19 – Lens Window

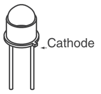

Fig. 20

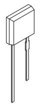

Fig. 21

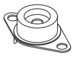

Fig. 22

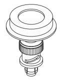

Fig. 23

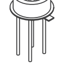

Photo Detectors

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max.	Sensitivity Wavelength (nm)			Junction Cap. (pF) Typ.	Response Time (nS) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each		
				Min.	Peak	Max.					1	25	100
Blue Enhanced Photo Conductive Detectors, Curve Line A													
1	17.74	235	50	350	950	1,100	100	20	120	PDB-C107-ND◆	20.59	17.32	15.92
2	100	1,300	30	350	950	1,100	300	25	120	PDB-C110-ND◆	55.68	49.13	46.67
1	7.95	110	30	350	950	1,100	60	16	120	PDB-C113-ND	44.96	38.88	36.45
3	1.55	60	30	400	900	1,100	6	10	30	PDB-C134-ND◆	3.01	2.43	2.19
4	4.10	67	30	400	900	1,100	18	50	59	PDB-C139-ND◆	3.01	2.43	2.19
1	29.02	400	25	350	950	1,100	200	18	120	PDB-C140-ND	32.50	27.63	25.60
3	4.10	150	30	400	900	1,100	18	50	40	PDB-C142-ND◆	3.08	2.48	2.26
5	8.02	90	15	400	900	1,100	10	15	120	PDB-C156-ND◆	3.01	2.43	2.19
6	9.00	145	30	400	900	1,100	10	50	120	PDB-C158-ND	3.01	2.43	2.19
7	7.95	110	10	350	950	1,100	60	100	—	PDB-C165-ND◆	28.00	23.80	22.05
8	0.74	10	10	400	900	1,100	15	50	120	PDB-C152SMCT-ND◆	8.22	6.82	6.20
8	0.74	10	10	400	900	1,100	15	50	120	PDB-C152SMTR-ND◆		3930.00/3,000	
9	2.10	25	10	400	900	1,100	4	10	120	PDB-C154SMCT-ND	8.61	7.15	6.50
9	2.10	25	10	400	900	1,100	4	10	120	PDB-C154SMTR-ND		2916.00/3,000	
10	7.67	90	30	400	950	1,100	15	20	130	PDB-C171SMCT-ND◆ ***NEW!***	2.79	1.71	1.49
10	7.67	90	30	400	950	1,100	15	20	130	PDB-C171SMTR-ND◆ ***NEW!***		1117.00/1,000	
Photo Conductive Detectors with Daylight Filter, Curve Line B — RoHS Compliant													
3	1.55	60	30	700	950	1,100	6	10	30	PDB-C134F-ND	3.01	2.43	2.19
4	4.10	67	30	700	950	1,100	18	50	61	PDB-C139F-ND	3.01	2.43	2.19
3	4.10	150	30	700	950	1,100	18	50	40	PDB-C142F-ND	3.08	2.48	2.26
6	9.00	145	30	700	950	1,100	10	50	120	PDB-C158F-ND	3.01	2.43	2.19
Blue Enhanced Photovoltaic Detectors, Curve Line A													
11	1.17 x 2.64	40	300	350	—	1,100	340	190	65	PDB-V104-ND◆	51.06	44.16	41.40
1	17.74	200	0.80	350	950	1,100	2,000	1,000	120	PDB-V107-ND	26.84	22.82	21.14
1	7.95	80	0.50	350	950	1,100	800	750	120	PDB-V113-ND	24.58	20.90	19.36
Red Enhanced Solderable Photo Cells, Curve Line A													
12	1.88 x 0.56	17	2.00	350	—	1,100	10	10	—	PDB-C601-1-ND◆	3.64	2.93	2.67
12	1.88 x 0.56	13	7.00	350	—	1,100	250	300	—	PDB-V601-1-ND◆	3.64	2.93	2.67
14	42.40	545	75	350	940	1,100	240	30	—	PDB-C609-2-ND◆	21.00	17.85	16.54
15	6.07 x 6.98	545	75	350	—	1,100	240	30	—	PDB-C609-3-ND◆	21.50	18.28	16.94
15	6.07 x 6.98	545	100	350	—	1,100	5,500	1,500	—	PDB-V609-3-ND◆	34.96	29.72	27.54
13	68.70	900	150	350	940	1,100	300	45	—	PDB-C612-2-ND	24.94	21.20	19.65
13	3.91 x 17.55	800	80	350	—	1,100	9,000	2,800	—	PDB-V612-2-ND	27.20	23.12	21.42
14	86.40	1,000	180	350	940	1,100	350	50	—	PDB-C613-2-ND◆	28.00	23.80	22.05
13	9.25 x 25.17	2,800	700	350	—	1,100	25,800	7,000	—	PDB-V615-2-ND◆	55.45	48.93	46.49
Blue Enhanced Bi-Cells, Quadrants and Multi-Element Detector Arrays, Curve Line A — RoHS Compliant													
18	2.03 x 0.97‡	—	2.70	350	—	1,100	28	190	—	SD219-51-03-301-ND	313.64	287.68	—
Photo Conductive Silicon Photodiodes													
20	2.90	38	1.00	400	950	1,100	60	100	—	PDB-C168-ND	7.25	5.95	5.37
20	1.70	27	0.60	400	950	1,100	30	100	—	PDB-C170-ND	7.25	5.95	5.37
InGaAs Photodetectors — RoHS Compliant													
16	.200	—	1.00	800	—	1,700	0.75	0.18 (max.)	—	SD004-11-41-211-ND	23.00	19.55	18.12
16	.200	—	5.00	800	—	1,700	6	1.15 (max.)	88	SD012-11-41-211-ND	53.04	46.80	44.46
16	1.50	—	50	800	—	1,700	250	10.0 (max.)	113	SD060-11-41-211-ND	175.09	160.60	156.98
Silicon Avalanche Photodiode — RoHS Compliant													
16	0.30	—	10	400	—	1,100	—	1	—	SD012-70-62-541-ND	128.86	116.19	112.39
16	0.90	—	30	400	—	1,100	—	2	—	SD036-70-62-531-ND	139.39	125.68	121.57
21	5.00	—	18	350	—	1,050	25	10	—	SD197-70-72-591-ND	933.40	—	—
21	5.00	—	18	350	—	1,050	25	10	—	SD197-70-74-591-ND	933.40	—	—
21	10	—	35	350	—	1,050	50	12	—	SD394-70-72-591-ND	1280.50	—	—
21	10	—	35	350	—	1,050	50	12	—	SD394-70-74-591-ND	1280.50	—	—
22	16	—	600	350	—	1,050	130	15	—	SD630-70-72-500-ND	1619.25	—	—
22	16	—	600	350	—	1,050	130	15	—	SD630-70-73-500-ND	1619.25	—	—
22	16	—	600	350	—	1,050	130	15	—	SD630-70-74-500-ND	1619.25	—	—
22	16	—	600	350	—	1,050	130	15	—	SD630-70-75-500-ND	1619.25	—	—
Red Enhanced Silicon Photodiode													
16	0.83 x 1.02	—	8.00	350	—	1,100	5.6	190	91	SD041-11-33-211-ND◆	26.10	22.19	20.56
17	0.50‡	—	0.40	350	—	1,100	15	190	67	SD055-23-21-211-ND◆◊	58.91	51.98	49.38
11	1.30	—	2.00	350	—	1,100	28	190	51	SD057-11-21-011-ND◆	28.30	24.06	22.29
11	1.30	—	0.50	350	—	1,100	28	190	51	SD057-14-21-011-ND◆	28.30	24.06	22.29
16	0.58 x 1.19	—	1.00	350	—	1,100	15	190	42	SD066-24-21-011-ND◆§	35.70	30.35	28.12
16	1.09 x 2.67	—	30	350	—	1,100	17.5	190	59	SD076-11-31-211-ND◆	34.80	29.58	27.41
19	1.09 x 2.67	—	0.90	350	—	1,100	50	190	55	SD076-14-21-011-ND◆	27.70	23.55	21.82
17	1.50‡	—	3.50	350	—	1,100	45	190	86	SD085-23-21-021-ND◆◊	52.08	45.04	42.23
16	2.54	—	6.40	350	—	1,100	87	190	90	SD100-11-21-221-ND◆	36.80	31.28	28.98
16	2.54	—	50	350	—	1,100	28	190	90	SD100-11-31-221-ND◆	36.80	31.28	28.98
16	2.54	—	1.60	350	—	1,100	87	190	82	SD100-14-21-021-ND◆	36.80	31.28	28.98
17	2.54	—	10	250	—	1,100	87	—	—	SD100-41-21-231-ND◆▲	96.00	85.50	81.00
23	2.54 x 2.18	—	—	350	—	1,100	—	—	—	SD112-42-11-221-ND◆▲	67.66	59.70	56.72
23	2.54 x 2.18	—	—	350	—	1,100	—	—	—	SD112-43-11-221-ND◆▲	67.66	59.70	56.72
16	2.54 x 1.22‡	—	5.00	350	—	1,100	60	190	80	SD113-24-21-021-ND◆§	32.20	27.37	25.36
17	1.07‡	—	2.50	350	—	1,100	35	190	113	SD118-23-21-021-ND◆◊	49.77	43.04	40.35
16	4.57 x 0.51‡	—	3.50	350	—	1,100	45	190	119	SD160-24-21-021-ND◆§	36.30	30.86	28.59
16	3.20 x 4.70	—	20	350	—	1,100	255	190	79	SD172-11-21-221-ND◆	39.68	34.32	32.18
16	3.20 x 4.70	—	147	350	—	1,100	82	190	79	SD172-11-31-221-ND◆	39.68	34.32	32.18
17	4.98‡	—	7.50	350	—	1,100	100	190	82	SD197-23-21-041-ND◆◊	106.72	95.05	90.05
16	5.08	—	26	350	—	1,100	345	190	95	SD200-11-21-241-ND◆	45.70	39.52	37.05
16	5.08	—	200	350	—	1,100	110	190	95	SD200-11-31-241-ND◆	58.82	51.90	49.31
16	5.59 x 7.62	—	425	350	—	1,100	235	190	90	SD290-11-31-241-ND◆	67.92	59.93	56.93
17	9.65‡	—	27	350	—	1,100	375	190	120	SD380-23-21-251-ND◆◊	169.07	155.08	151.58
16	—	—	31	350	—	1,100	390	190	—	SD385-24-21-041-ND◆§	52.45	46.28	43.97
17	11.30	—	150	250	—	1,100	1,700	—	—	SD444-41-21-261-ND▲	364.50	344.25	—
2	1.00	—	120	350	—	1,100	1,700	190	120	SD445-11-21-305-ND◆	71.20	63.65	60.41
2	1.00	—	30	350	—	1,100	1,700	190	120	SD445-14-21-305-ND◆	74.66	66.75	63.35
Blue Enhanced Silicon Photodiodes — RoHS Compliant													
24	5.31 x 8.10	500	15	350	—	1,100	120	190	79	PDB-C109-ND	52.08	45.04	42.23
25	0.33 x 0.33	1.5	2.00	350	—	1,100	5	190	—	PDB-C122-ND	59.14	50.27	46.58
16	2.54	—	6.40	350	—	1,100	87	190	82	SD100-12-22-021-ND	27.00	22.95	21.27
17	2.54	—	10	250	—	1,100	87	—	—	SD100-42-22-231-ND▲	96.00	85.50	81.00
23	2.54 x 2.18	—	—	—	—	—	—	—	—	SD112-45-11-221-ND▲	74.00	66.16	62.79
16	5.59 x 7.62	—	52	350	—	1,100	725	190	90	SD290-12-22-241-ND	66.81	58.95	56.01
26	11.28	—	52	350	—	1,100	725	190	95	SD444-12-12-171-ND	203.94	187.07	182.85
17	11.30	—	150	250	—	1,100	1,700	—	—	SD444-42-22-261-ND▲	364.50	344.25	—
UV Enhanced Silicon Photodiodes — RoHS Compliant													
16	2.54	—	6.50	250	—	1,100	87	190	90	SD100-13-23-222-ND	43.29	37.44	35.10
17	2.54	—	10	250	—	1,100	87	—	—	SD100-43-23-232-ND▲	96.00	85.50	81.00
17	11.30	—	150	250	—	1,100	1,700	—	—	SD444-43-23-262-ND▲	364.50	344.25	—
Silicon Avalanche Photodiodes Module — RoHS Compliant													
27	5.00	—	—	350	—	1,050	—	—	—	SD197-70-72-661-ND	2358.75	—	—
27	5.00	—	—	350	—	1,050	—	—	—	SD197-70-74-661-ND	2358.75	—	—
27	10.00	—	—	350	—	1,050	—	—	—	SD394-70-72-661-ND	2613.75	2511.25	—

‡ Per Element § Bi-cell ◊ Quad ▲ Detector/Amplifier ◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Silicon Detectors and Emitters

Fig. 24

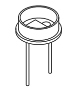

Fig. 25

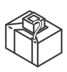

Fig. 26

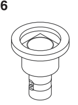

Fig. 27

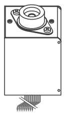

Fig. 28

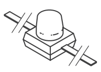

Fig. 29

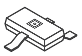

Fig. 30

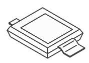

Fig. 31

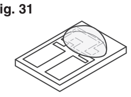

Fig. 32

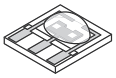

Fig. 33

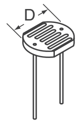

Curve Graph

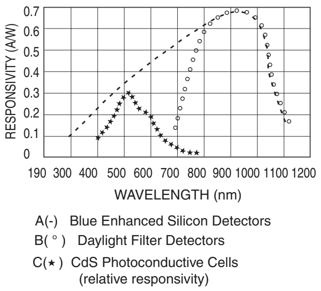

Photo Detectors *(Cont.)*

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max.	Sensitivity Wavelength (nm) Min.	Sensitivity Wavelength (nm) Peak	Sensitivity Wavelength (nm) Max.	Junction Cap. (pF) Typ.	Response Time (nS) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
27	10.00	—	—	350	—	1,050	—	—	—	SD394-70-74-661-ND	2613.75	2511.25	—
Plastic Photodiode — RoHS Compliant													
28	0.61	10	10	700	—	1,100	25	6	48	PDB-C144-ND	3.08	2.48	2.26
28	0.43	10	30	400	—	1,100	5	6	48	PDB-C145-ND	3.22	2.59	2.36
6	2.84	120	30	400	—	1,100	30	50	120	PDB-C157-ND	2.94	2.37	2.16
30	2.65	90	30	400	—	1,100	15	20	120	PDB-C160SM-ND	2.95	2.38	2.14

‡ Per Element § Bi-cell ◊ Quad ▲ Detector/Amplifier ◆ ***RoHS Compliant***

Oximeter Components

Fig.	661nm Forward Voltage (V) Typ.	661nm Reverse Breakdown (V)	661nm Peak Wavelength (nm) Typ.	661nm Spectral Bandwidth (nm) Typ.	661nm Rise/Fall Time (µS) Typ.	880/905/940nm Forward Voltage (V) Typ.	880/905/940nm Reverse Breakdown (V)	880/905/940nm Peak Wavelength (nm) Typ.	880/905/940nm Spectral Bandwidth (nm) Typ.	880/905/940nm Rise/Fall Time (µS) Typ.	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Price Each 250
32	1.8	5	661	21	0.1/0.04	1.3	5	880	50	0.8/0.8	PDI-E837-ND	50.88	44.00	41.25	38.50
31	1.8	5	661	21	0.1/0.04	1.2	5	880	50	0.8/0.8	PDI-E838-ND	50.88	44.00	41.25	38.50

High Power Infrared Emitters

Fig.	Forward Voltage (V) Typ.	Forward Current (mA) Con.	Output Power (mW) Typ.	Beam Angle (2x Theta)	Peak Wavelength (nm) Typ.	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Price Each 250
19	1.5	100	9	6	880	PDI-E803-ND	27.65	23.26	21.37	19.49
19	1.5	100	20	80	880	PDI-E804-ND◆	18.04	15.17	13.94	12.71
19	1.5	100	10	5	880	PDI-E805-ND	19.58	16.47	15.13	13.80
3	1.5	100	30 (max.)	35	880	PDI-E808-A-ND	3.01	2.43	2.19	1.94
3	1.6	100	90	—	880	PDI-E809-ND◆	3.01	2.43	2.19	1.94
19	1.5	180	15	—	880	PDI-E813-ND◆	55.04	47.60	44.63	41.65
19	1.7	100	2.7	—	850	PDI-E825-ND◆	36.60	31.11	28.83	26.54
29	1.2	100	0.7	—	940	PDI-E940SM-ND◆	3.01	2.43	2.19	1.94

◆ ***RoHS Compliant***

Photoconductive Cells

Fig.	Dim. D (mm)	Cell Resistance‡ 10 Lux @ 2856K Min. (KΩ)	Cell Resistance‡ 10 Lux @ 2856K Max. (KΩ)	Cell Resistance‡ Dark Min. (MΩ)	Cell Resistance‡ Dark SEC	Peak Wavelength (nm) Typ.	Rise/Fall Time (ms) Typ.	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Price Each 250
33, Curve Line C	11.00	8	16	0.3	10	520	55/25	PDV-P5001-ND	2.64	2.13	1.92	1.70
	11.00	12	30	0.5	10	520	55/25	PDV-P5002-ND	2.64	2.13	1.92	1.70
	11.00	12	58	1	10	520	55/25	PDV-P5003-ND	2.64	2.13	1.92	1.70
	7.20	4	20	0.5	10	520	55/20	PDV-P7002-ND◆	2.79	2.25	2.03	1.80
	5.10	3	11	0.2	10	520	50/20	PDV-P8001-ND	1.95	1.58	1.42	1.26
	5.10	40	120	1	10	520	60/25	PDV-P8005-ND	1.95	1.58	1.42	1.26
	5.10	80	240	5	10	520	60/25	PDV-P8006-ND	1.95	1.58	1.42	1.26
	5.10	4	11	0.15	10	520	55/20	PDV-P8101-ND	1.95	1.58	1.42	1.26
	5.10	9	20	0.3	10	520	60/25	PDV-P8102-ND	1.95	1.58	1.42	1.26
	5.10	16	33	0.5	10	520	60/25	PDV-P8103-ND◆	2.05	1.65	1.49	1.32
	5.10	27	60	2	10	520	60/25	PDV-P8104-ND◆	2.05	1.65	1.49	1.32
	5.10	80	240	20	10	520	60/25	PDV-P8107-ND	1.95	1.58	1.42	1.26
	4.20	4	11	0.3	10	520	60/25	PDV-P9001-ND	1.58	1.28	1.15	1.02
	4.20	9	20	0.5	10	520	60/25	PDV-P9002-ND	1.58	1.28	1.15	1.02
	4.20	11	20	0.5	10	520	60/25	PDV-P9002-1-ND	1.58	1.28	1.15	1.02
	4.20	16	33	1	10	520	60/25	PDV-P9003-ND	1.58	1.28	1.15	1.02
	4.20	23	33	1	10	520	60/25	PDV-P9003-1-ND	1.58	1.28	1.15	1.02
	4.20	27	60	2	10	520	60/25	PDV-P9004-ND	1.58	1.28	1.15	1.02
	4.20	50	94	2.5	10	520	60/25	PDV-P9005-ND	1.58	1.28	1.15	1.02
	4.20	48	140	20	10	520	60/25	PDV-P9005-1-ND	1.58	1.28	1.15	1.02
	4.20	80	200	5	10	520	60/25	PDV-P9006-ND	1.58	1.28	1.15	1.02
	4.20	10	100	1	10	520	60/25	PDV-P9007-ND	1.58	1.28	1.15	1.02
	4.20	10	200	20	10	520	60/25	PDV-P9008-ND	1.58	1.28	1.15	1.02
	4.20	20	45	1	10	520	60/25	PDV-P9103-ND	1.58	1.28	1.15	1.02
	4.20	10	50	5	10	520	70/15	PDV-P9200-ND	1.58	1.28	1.15	1.02
	4.20	5	20	20	10	520	70/15	PDV-P9203-ND	1.58	1.28	1.15	1.02

◆ ***RoHS Compliant*** ‡ Photocells are light adapted at 100 to 500 Lux.

NEW! SANYO SEMI Amorphous Silicon Solar Cells

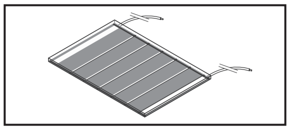

Compared to crystal silicon solar cells with firm shape of atoms, Amorphous silicon solar cells with random shape of atoms have the advantages of thinness and flexibility, which can be embedded into various products. Though Amorphous silicon solar cells have lower conversion efficiency in outdoor light, they have higher performance under indoor light because of its lower illuminance dependency.

Dimensions (mm)	Typical Operating Characteristics (Initial) FL-200lux	Typical Operating Characteristics (Initial) FL-50lux (Reference Value)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Sanyo Part No.
Indoor							
35.0 x 13.9	1.5V - 12.5µA	1.4V - 3.10µA	869-1000-ND	2.48	2.00	1.80	AM-1417CA
41.6 x 26.3	1.5V - 31.0µA	1.4V - 7.75µA	869-1001-ND	5.46	4.39	4.00	AM-1454CA
25.0 x 10.0	1.5V - 5.3µA	1.4V - 1.30µA	869-1002-ND	1.92	1.55	1.40	AM-1456CA
53.0 x 25.0	3.0V - 18.5µA	2.6V 4.60µA	869-1003-ND	5.46	4.39	4.00	AM-1801CA
58.1 x 48.6	3.0V - 42.0µA	2.6V - 10.50µA	869-1004-ND	6.33	5.19	4.69	AM-1815CA
96.7 x 56.7	3.0V - 84.0µA	2.6V - 21.00µA	869-1005-ND	10.63	8.72	7.87	AM-1816CA
31.0 x 24.0	3.0V - 6.9µA	4.0V - 0.41µA	869-1006-ND‡	2.85	2.30	2.07	AM-1819CA

Dimensions (mm)	SS-50K lux (Initial) Typical Operating Characteristics	SS-50K lux (Initial) Pmax (Vop-Iop)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Sanyo Part No.
Outdoor							
50.1 x 33.1	2.2V - 17.9mA	44mW (2.6V - 16.9mA)	869-1007-ND	9.78	8.02	7.24	AM-5412CAR
60.1 x 41.3	3.3V - 16.5mA	59mW (3.9V - 15.1mA)	869-1008-ND	11.09	9.33	8.57	AM-5608CAR
25.0 x 20.0	3.3V - 2.3mA	8mW (3.9V - 2.2mA)	869-1009-ND	6.13	4.93	4.49	AM-5610CAR
70.0 x 50.0	3.9V - 21.0mA	88mW (4.6V - 19.1mA)	869-1010-ND	16.19	13.62	12.52	AM-5706CAR
150.0 x 37.5	5.0V - 27.8mA	150mW (5.9V -25.4mA)	869-1011-ND	20.50	17.43	16.15	AM-5902CAR
40.1 x 33.1	5.0V - 4.5mA	24mW (5.9V - 4.1mA)	869-1012-ND	8.63	7.08	6.39	AM-5904CAR
75.0 x 55.0	5.0V - 20.6mA	114mW (5.9V-19.3mA)	869-1013-ND	16.21	13.64	12.53	AM-5907CAR
57.7 x 55.1	3.9V - 21.0mA	90mW (4.6V - 19.4mA)	869-1014-ND	13.53	11.38	10.46	AM-8701CAR
57.7 x 41.3	3.9V - 15.5mA	67mW (4.6V - 14.4mA)	869-1015-ND	11.13	9.37	8.61	AM-8702CAR
57.7 x 55.1	4.5V - 18.9mA	93mW (5.2V - 17.8mA)	869-1016-ND	13.53	11.38	10.46	AM-8801CAR
48.1 x 55.1	4.5V - 15.1mA	74mW (5.2V - 14.2mA)	869-1017-ND	11.95	10.05	9.24	AM-8804CAR

‡ SS-10k lux - for high illumination levels

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OSRAM Opto Semiconductors

Optoelectronics

Dimensions in mm

Photodiodes

Fig.	Fwd. Volt. (V)	Photo Cur. (µA)	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (ns)	View Angle (°)	Digi-Key Part No.	Bulk Price Each 1	10	100	Osram Part No.
1	1.3	80	2	850	20	120	475-1070-ND	.87	.70	.64	BPW34
	1.3	50	2	880	20	120	475-1072-ND	.85	.69	.62	BPW34FA
2	1.3	50	1	900	5	40	475-1075-ND	.85	.69	.62	SFH203FA
	1.3	135	1	850	5	20	475-1077-ND	.83	.67	.61	SFH213
3	1.3	80	2	850	20	120	475-1076-ND	1.06	.85	.77	SFH206K
	1.3	60	2	950	20	120	475-1429-ND	.83	.67	.61	SFH 205 F
	1.3	60	2	900	20	120	475-1430-ND	.83	.67	.61	SFH 205 FA
4	1.3	28	.05	860	10	34	475-1078-ND	.67	.54	.49	SFH229
	1.3	20	.05	900	10	34	475-1079-ND	.67	.54	.49	SFH229FA
	—	10	.05	820	10	34	475-2863-ND ***NEW!***	.62	.50	.46	SFH 2302
5	—	100	0.1	850	5	30	475-1435-ND	.69	.56	.51	SFH 2505-Z
	—	—	0.1	900	5	30	475-1436-1-ND†	.69	.56	.51	SFH 2505 FA-Z
	—	—	0.1	900	5	30	475-1436-2-ND‡	527.85/1,000			SFH 2505 FA-Z
6	—	—	0.1	900	5	30	475-1434-ND	.70	.57	.52	SFH 2500 FA-Z
7	1.3	—	1	900	5	150	475-1428-ND	1.04	.83	.76	SFH 203 PFA
8	1.3	50	2	880	20	120	475-1346-ND	.96	.77	.70	BPW 34 FASR-Z
	1.3	80	2	850	20	120	475-2659-1-ND†	1.35	1.13	.91	BPW 34 S-Z
	1.3	80	2	850	20	120	475-2659-2-ND‡	1013.02/1,500			BPW 34 S-Z
9	1.3	55	2	850	20	120	475-1345-1-ND†	1.45	1.21	.97	BP 104 S-Z
	1.3	55	2	850	20	120	475-1345-2-ND‡	1086.75/1,500			BP 104 S-Z
	1.2	—	0.1	570	200µs	120	475-2579-1-ND†	1.84	1.54	1.23	SFH 2430-Z
	1.2	—	0.1	570	200µs	120	475-2579-2-ND‡	1378.37/1,500			SFH 2430-Z
	1.3	34	2	880	20	120	475-1344-1-ND†	1.45	1.21	.97	BP 104 FAS-Z
	1.3	34	2	880	20	120	475-1344-2-ND‡	1086.75/1,500			BP 104 FAS-Z
10	1.3	24	10	900	500	120	475-1349-ND	12.65	10.12	9.18	BPX 48
11	1.3	—	2	850	20	110	475-1350-ND	9.89	7.92	7.18	BPX 61
12	1.0	—	10	900	500	110	475-1431-ND	12.19	9.76	8.84	SFH 221
13	1.3	34	2	900	20	120	475-1432-ND	.71	.57	.52	SFH 225 FA
	1.3	50	2	900	20	130	475-1433-ND	.74	.59	.54	SFH 235 FA
24	1.3	10	1	850	5	120	475-2662-1-ND†	1.15	.96	.77	SFH 2400-Z
25	1.0	40	5	850	18	120	475-2661-1-ND†	10.30	8.59	6.87	KOM 2125-Z

† Cut Tape ‡ Tape and Reel

Phototransistors

Fig.	Collector Emitter (V) Max.	Collector Current (mA) Max.	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (µs) Typ.	View Angle (°)	Digi-Key Part No.	Bulk Price Each 1	10	100	Osram Part No.
2	70	50	3	870	11	20	475-1080-ND	.34	.28	.25	SFH313FA
	35	50	1	880	10	50	475-1438-ND	.41	.33	.30	SFH 300 FA-3/4
4	35	15	1	900	7/8	24	475-1440-ND	.38	.30	.28	SFH 309 FA-4/5
6	35	50	3	830	—	26	475-1453-ND	.55	.45	.41	SFH 3500-Z
14	50	50	20	880	9/12	80	475-1347-ND	1.61	1.29	1.17	BPX 38-2/3
	50	50	20	880	12/15	30	475-1348-ND	1.61	1.29	1.17	BPX 43-3/4
	35	100	1	830	7/9	16	475-1351-ND	1.63	1.31	1.19	BPY 62-3/4
	50	50	20	880	15/18	30	475-1074-ND	1.61	1.29	1.17	BPX43-4/5
15	70	50	3	850	11	80	475-1081-ND	.34	.28	.25	SFH314
17	30	50	3	850	10	70	475-1419-ND	.48	.39	.36	LPT 80A
18	35	15	1	860	6	150	475-1441-ND	.41	.34	.31	SFH 309 P
	35	15	1	900	6	150	475-1442-ND	.41	.34	.31	SFH 309 PFA
19	70	50	5	780	7/8	50	475-1443-ND	.38	.30	.28	SFH 310-2/3
	70	50	5	880	7/8	50	475-1444-ND	.38	.30	.28	SFH 310 FA-2/3
20	35	15	1	860	—	120	475-2572-1-ND†	1.15	.96	.77	SFH 7225-Z
	35	15	1	860	—	120	475-2572-2-ND‡	1150.59/2,000			SFH 7225-Z
	35	15	1	860	7	120	475-2570-1-ND†	1.28	1.07	.86	SFH 7221-Z
	35	15	1	860	7	120	475-2570-2-ND‡	1275.12/2,000			SFH 7221-Z
	—	—	—	565	500	120	475-2571-1-ND†	1.28	1.07	.86	SFH 7222-Z
	—	—	—	565	500	120	475-2571-2-ND‡	1275.12/2,000			SFH 7222-Z
21	15	15	2	920	7	120	475-1447-ND	.59	.47	.43	SFH 3204-Z
22	35	15	1	990	7	50	475-1448-ND	.48	.39	.36	SFH 3219-Z
23	35	15	1	980	7/8	120	475-1449-ND	.43	.35	.32	SFH 325-3/4-Z
24	70	50	3	850	24/34	120	475-1451-1-ND†	1.14	.95	.76	SFH 3400-2/3-Z
	70	50	3	850	24/34	120	475-1451-2-ND‡	1138.50/2,000			SFH 3400-2/3-Z
	5.5	20	3	570	—	120	475-1452-1-ND†	1.31	1.10	.88	SFH 3410-2/3-Z
	5.5	20	3	570	—	120	475-1452-2-ND‡	1311.00/2,000			SFH 3410-2/3-Z
26	5.5	20	3	570	—	120	475-1268-1-ND†	.97	.81	.65	SFH 3710-3/4-Z
	5.5	20	3	570	—	120	475-1268-2-ND‡	1449.00/3,000			SFH 3710-3/4-Z
27	35	50	5	870	13/15	40	475-1439-ND	.53	.43	.39	SFH 303 FA-3/4
35	15	15	2	860	7	160	475-1257-1-ND† ***NEW!***	.58	.49	.39	SFH 3010-Z
	15	15	2	860	7	160	475-1257-2-ND‡ ***NEW!***	1448.18/5,000			SFH 3010-Z

† Cut Tape ‡ Tape and Reel

Fig. 1

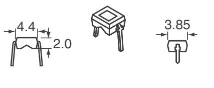

Fig. 2

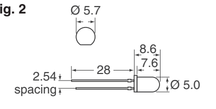

Fig. 3

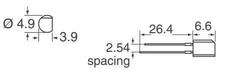

Fig. 4

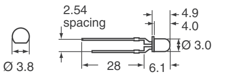

Fig. 5

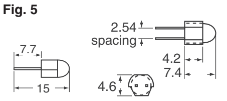

Fig. 6

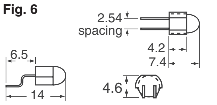

Fig. 7

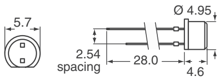

Fig. 8

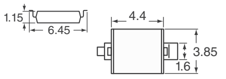

Fig. 9

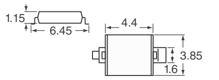

Fig. 10

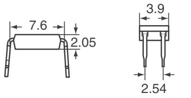

Fig. 11

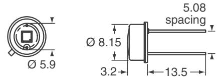

Fig. 12

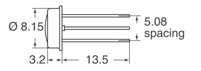

Fig. 13

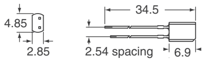

Fig. 14

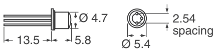

Fig. 15

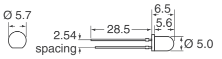

Fig. 16

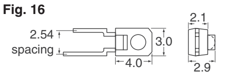

Fig. 17

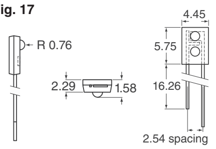

Fig. 18

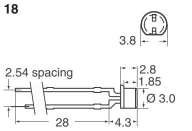

Fig. 19

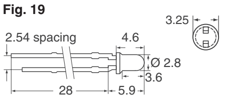

Fig. 20

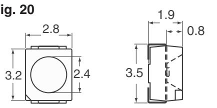

Fig. 21

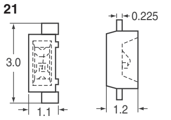

Fig. 22

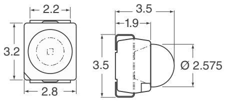

Fig. 23

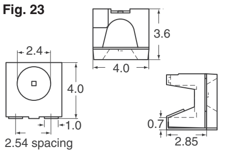

Fig. 24

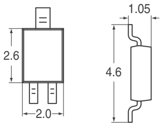

Fig. 25

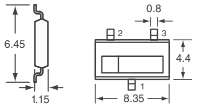

Fig. 26

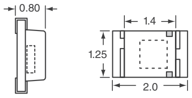

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OSRAM
Opto Semiconductors

Optoelectronics *(Cont.)*

Dimensions in mm

Fig. 27

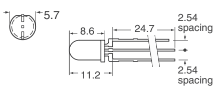

Fig. 28

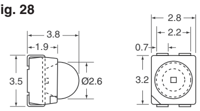

Fig. 29

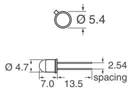

Fig. 30

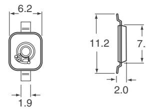

Fig. 31

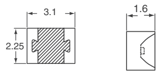

Fig. 32

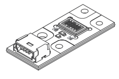

Fig. 33 ***NEW!***

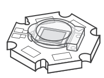

Fig. 34

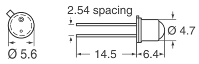

Fig. 35

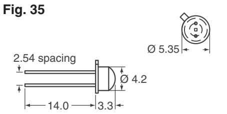

Fig. 36

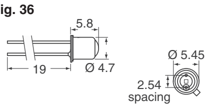

Fig. 37

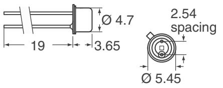

Fig. 38

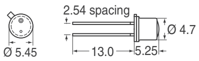

Fig. 39

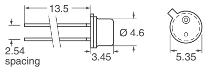

Fig. 40

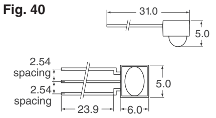

Fig. 41

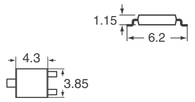

Fig. 42

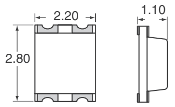

Fig. 43

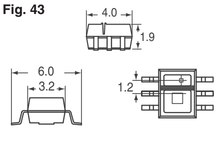

Fig. 44

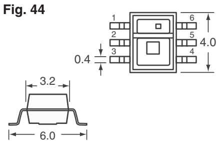

Fig. 45

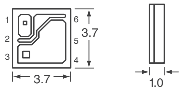

Fig. 46 ***NEW!***

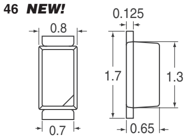

Fig. 47 ***NEW!***

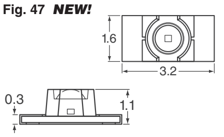

Fig. 48 ***NEW!***

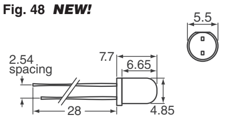

Infrared Emitters

Digi Reel®

Fig.	Forward Voltage (V)	Forward Current Max. (mA)	Optical Power Output (mW/sr)◊	Peak Wave-length (nm)	View Angle (°)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Osram Part No.
2	1.5	100	180 typ.	850	6	475-1200-ND§◆	.61	.49	.44	—	—	SFH4550
	1.5	100	100 typ.	880	16	475-1111-ND§◆	.44	.35	.32	—	—	SFH484
	1.5	100	60 typ.	880	40	475-1112-ND§◆	.44	.35	.32	—	—	SFH485
	1.3	100	63 min.	950	8	475-1461-ND§◆	.43	.35	.32	—	—	SFH 4511
	1.5	100	80 min.	880	16	475-1468-ND§◆	.55	.45	.41	—	—	SFH 484-2
	1.5	100	25 min.	880	40	475-1469-ND§◆	.55	.45	.41	—	—	SFH 485-2
	1.5	100	40 min.	880	22	475-1471-ND§◆	.44	.35	.32	—	—	SFH 486
4	1.3	100	6.3 min.	950	40	475-1086-ND§◆	.51	.41	.37	—	—	SFH409
	1.5	100	40 min.	850	26	475-1460-ND§◆	.61	.49	.44	—	—	SFH 4350
5	1.5	100	25 min.	880	30	475-1109-1-ND	.60	.50	.40	1,000	300.00	SFH4585
7	1.5	100	3.15 min.	880	80	475-1470-ND§◆	.55	.45	.41	—	—	SFH 485 P
16	1.2	60	2.5 min.	950	18	475-1087-ND§	.39	.32	.29	—	—	SFH4110
17	1.5	60	0.4 min.	950	60	475-1364-ND§◆	.46	.37	.34	—	—	IRL 80A
	1.5	100	1.0 min.	880	50	475-1365-ND§◆	.58	.46	.42	—	—	IRL 81A
20	1.5	70	4 min.	940	120	475-2866-1-ND◆ ***NEW!***	.77	.64	.52	2,000	383.13/M	SFH 4243-Z
	1.5	100	10 min.	850	120	475-1459-1-ND◆	.93	.78	.63	2,000	465.75/M	SFH 4250-Z
	1.5	100	4 min.	880	120	475-2869-1-ND◆ ***NEW!***	1.02	.86	.69	2,000	512.33/M	SFH 4283-Z
23	1.5	70	4 min.	940	120	475-2867-1-ND◆ ***NEW!***	.77	.64	.52	2,000	383.13/M	SFH 4244-Z
	1.5	100	10 min.	850	120	475-2568-1-ND◆	.93	.78	.63	2,000	465.75/M	SFH 4255-Z
28	2.4	100	40 min.	850	30	475-1243-1-ND◆	1.07	.90	.72	2,000	535.62/M	SFH4258-Z
29	1.5	200	40 min.	880	12	475-1110-ND§◆	1.54	1.24	1.12	—	—	SFH480
	1.3	300	20 min.	950	12	475-1454-ND§◆	1.63	1.31	1.19	—	—	SFH 400
30	1.8	100	200 typ.	940	60	475-1272-1-ND◆	12.08	10.07	8.05	800	4830.00	SFH 4231
	1.5	1000	320 typ.	850	120	475-2844-1-ND◆ ***NEW!***	12.08	10.07	8.05	800	3814.32	SFH 4232-Z
31	1.6	70	16 min.	940	30	475-2872-1-ND◆ ***NEW!***	.86	.72	.58	2,000	430.91/M	SFH 4641-Z
	1.6	70	16 min.	940	30	475-2873-1-ND◆ ***NEW!***	.86	.72	.58	2,000	430.91/M	SFH 4646-Z
	1.5	100	40 typ.	850	30	475-1260-1-ND◆	.98	.82	.66	2,000	489.05/M	SFH 4655-Z
	1.5	100	16 min.	850	40	475-2569-1-ND◆	.98	.82	.66	2,000	489.05/M	SFH 4650-Z
	1.6	70	16 min.	850	30	475-2874-1-ND◆ ***NEW!***	.86	.72	.58	2,000	430.91/M	SFH 4651-Z
	1.6	70	16 min.	850	30	475-2875-1-ND◆ ***NEW!***	.86	.72	.58	2,000	430.91/M	SFH 4656-Z
32	18	1000	630 min.	850	60	475-1270-ND§◆	68.62	54.90	49.75	—	—	SFH 4730
	18	1000	800 min.	850	60	475-1271-ND§◆	68.62	54.90	49.75	—	—	SFH 4740
33	9.5	1000	630 min.	850	140	475-2845-ND◆ ***NEW!***	56.51	45.21	40.98	—	—	SFH4750
	9.8	1000	630 min.	940	140	475-2846-ND◆ ***NEW!***	56.51	45.21	40.98	—	—	SFH4751
34	1.3	300	20 min.	950	30	475-1455-ND§◆	1.70	1.37	1.24	—	—	SFH 401
35	1.3	300	4 min.	950	80	475-1397-ND§◆	1.38	1.11	1.01	—	—	LD 242-2/3
36	1.3	300	25 min.	950	10	475-1465-ND§◆	2.80	2.24	2.03	—	—	SFH 4811
	1.5	200	40 min.	880	10	475-1473-ND§◆	1.73	1.38	1.26	—	—	SFH 4881
37	1.3	300	2.5 min.	950	70	475-1466-ND§◆	2.80	2.24	2.03	—	—	SFH 4813
	1.5	200	4 min.	880	70	475-1474-ND§◆	1.73	1.38	1.26	—	—	SFH 4883
38	1.5	200	5 min.	880	60	475-1467-ND§◆	1.73	1.39	1.26	—	—	SFH 482-2/3
39	2	50	0.63 min.	660	100	475-1472-ND§◆	4.58	3.67	3.32	—	—	SFH 4860
40	5	1.3	—	940	—	475-1475-ND§◆	.87	.70	.63	—	—	SFH 5110-38
41	5	3	—	940	120	475-1477-1-ND◆	1.66	1.39	1.11	1,500	1017.76/M	SFH 5410-38-Z
46	1.5	100	4 min.	850	160	475-2864-1-ND◆ ***NEW!***	.93	.78	.63	5,000	465.75/M	SFH 4050-Z
47	1.6	70	6.3 min.	850	80	475-2865-1-ND◆ ***NEW!***	.74	.62	.50	2,000	371.06/M	SFH 4058
48	1.5	100	40 min.	940	40	475-2870-ND§◆ ***NEW!***	.61	.49	.44	—	—	SFH 4546
	1.5	100	40 min.	850	40	475-2871-ND§◆ ***NEW!***	.61	.49	.44	—	—	SFH 4556

§ Bulk ◊ At I_F = 100mA, t_p = 20ms ◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Ambient Light Sensor

RoHS COMPLIANT

Fig.	Supply Voltage (V)	Current Consumption (µA)	Spectral Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Osram Part No.
42	6	420	475 ~ 650	475-1259-1-ND	2.24	1.87	1.50	475-1259-2-ND	1121.25/M	SFH 5711-2/3-Z

Schmitt-Trigger Reflective Interrupter

RoHS COMPLIANT

Fig.	Forward Voltage (V)	Forward Current (mA) Max.	Supply Voltage (V)	Output Current (mA) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
43	1.25	50	4-18	16	475-1239-1-ND	1.84	1.54	1.23	475-1239-2-ND	919.08	SFH9240-Z

Reflective Interrupter

RoHS COMPLIANT

Fig.	Forward Voltage (V)	Forward Current (mA) Max.	Rise/Fall Time Tr/Tf (µs)	Photo Current (Ip)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
44	1.25	50	50/50	3.5mA	475-2658-1-ND	1.57	1.31	1.05	475-2658-2-ND	782.64	SFH 9201-3/4-Z

Proximity Sensor

RoHS COMPLIANT

Fig.	Operating Temperature (°C)	Forward Current (mA) Max.	Supply Voltage (V)	Wavelength (nm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Osram Part No.
45	-20 ~ 85	60	2.4 ~ 3.6	730 ~ 1080	475-2876-1-ND✔	2.73	2.28	1.82	475-2876-2-ND✔	1362.75	SFH 7740-Z
	-20 ~ 85	60	2.4 ~ 3.6	730 ~ 1080	475-2663-1-ND	2.73	2.28	1.82	475-2663-2-ND	1362.75	SFH 7741-Z
	-20 ~ 85	65	2.4 ~ 3.6	730 ~ 1080	475-2877-1-ND✔	2.66	2.22	1.78	475-2877-2-ND✔	1331.70	SFH 7743-Z

✔ ***NEW!***

Digi Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON® Amplified Optical Sensors

Omron's optical sensors are designed to meet the needs of positioning, detection, robotic controls and presence detection. Amplified sensors are not influenced by internal or external lighting and can be powered by a wide supply voltage. Great for plug and play applications such as conveyor sensing and directly interfacing with PLC and Industrial controllers.

Fig. 1

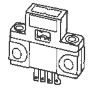

Fig. 2

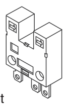

Wide Slot

Fig. 3

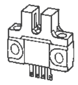

Fig. 4

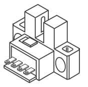

L-Shape

Fig. 5

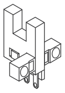

T-Shape

Fig. 6

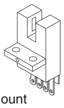

Close Mount

Fig. 7

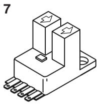

Fig. 8

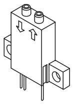

Long Distance

Fig. 9

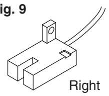

Right Mount Shown

Fig. 10

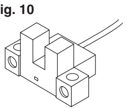

Fig. 11

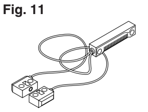

Fig. 12

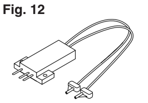

Fig. 13

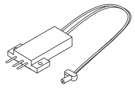

Fig. 14

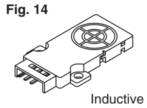

Inductive Type

Fig. 15

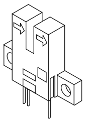

Fig. 16

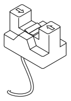

Liquid Level

Fig. 17

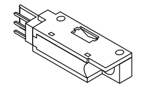

Fig. 18

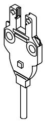

Fig. 19

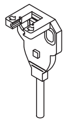

Fig. 20

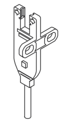

Fig.	Sensor Type/Features	Sensing Distance (mm)	Configuration	Digi-Key Part No.	Price Each		Omron Part No.
					1	25	
1	Reflective (General Purpose)	5.0	Dark-On	OR507-ND	20.13	18.13	EE-SB5VC
	Reflective (General Purpose)	5.0	Light-On	OR867-ND◆	20.13	18.13	EE-SB5M
	Reflective (General Purpose)	19	Light-On	OR519-ND	28.12	25.31	EE-SB5V-E
	Reflective (Side Detecting)	2.0 ~ 5.0	Light-On	OR535-ND	54.54	49.09	EE-SPY311
	Reflective (Side Detecting)	5.0	Light-On	OR536-ND	54.54	49.09	EE-SPY411
	Reflective (Top Detecting)	2.0 ~ 5.0	Dark-On	OR572-ND	54.54	49.09	EE-SPY312
	Reflective (Top Detecting)	5.0	Light-On	OR868-ND◆	54.54	49.09	EE-SPY402
	Reflective (Top Detecting)	2.0 ~ 5.0	Light-On	OR573-ND	54.54	49.09	EE-SPY412
	Reflective (Side Detecting)	5.0	Light/Dark-On	OR531-ND†	32.62	29.36	EE-SY671
	Reflective (Top Detecting)	1.0 ~ 5.0	Light/Dark-On	OR532-ND†	32.62	29.36	EE-SY672
2	Wide Slot (13mm Slot)	13	Light-On	OR534-ND	58.29	52.47	EE-SPX403
3	Slot (Dust Proof Slit)	5.0	Light/Dark-On	OR528-ND	28.98	26.09	EE-SX670
	Slot – NPN	5.0	Light/Dark-On	OR611-ND	25.83	23.25	EE-SX670A
	Slot – PNP	5.0	Light/Dark-On	OR870-ND◆	27.14	24.43	EE-SX670P
4	Slot (L-Shaped) – NPN	5.0	Light-On	OR869-ND◆	28.47	25.63	EE-SX471
	Slot (L-Shaped, Dust Proof Slit)	5.0	Light/Dark-On	OR529-ND	27.62	24.86	EE-SX671
	Slot (L-Shaped, Dust Proof Slit)	5.0	Light/Dark-On	OR612-ND	27.62	24.86	EE-SX671A
	Slot (3-Pin Connector)	5.0	Dark-On	OR796-ND◆	4.02	3.62	EE-SX3009-P1
5	Slot (T-Shaped, Dust Proof Slit)	5.0	Light/Dark-On	OR530-ND◆	27.97	25.18	EE-SX672
	Slot (T-Shaped, Dust Proof Slit)	5.0	Light/Dark-On	OR613-ND◆	27.97	25.18	EE-SX672A
	Slot (T-Shaped) – PNP	5.0	Light/Dark-On	OR871-ND◆	27.97	25.18	EE-SX672P
6	Slot (Close Mounting) – NPN	5.0	Light/Dark-On	OR549-ND	28.98	26.09	EE-SX673
	Slot (Close Mounting) – NPN	5.0	Light/Dark-On	OR614-ND	38.15	34.34	EE-SX673A
7	Slot (Close Mount) – NPN	5.0	Light/Dark-On	OR597-ND◆	29.80	26.83	EE-SX674
	Slot (Close Mount) – NPN	5.0	Light/Dark-On	OR872-ND◆	31.96	28.77	EE-SX674A
	Slot (Close Mount) – PNP	5.0	Light/Dark-On	OR873-ND◆	31.96	28.77	EE-SX674R
8	Reflective (Long Distance)	200	Dark-On	OR538-ND	73.29	65.96	EE-SPZ301A
	Reflective (Long Distance)	200	Light-On	OR539-ND	73.29	65.96	EE-SPZ401A
9	Slot (Left Mount with 1M Cable)	3.6	Dark-On	OR541-ND	83.28	74.96	EE-SPX302-W2A
	Slot (Right Mount with 1M Cable)	3.6	Dark-On	OR542-ND	89.95	80.96	EE-SPX304-W2A
10	Slot (Top Mount with 1M Cable)	5.0	Dark-On	OR543-ND	93.27	83.95	EE-SPX305-W2A
	Slot (Top Mount with 1M Cable	5.0	Light-On	Z2357-ND◆	60.44	55.97	EE-SPX405-W2A
11	Slot (Wide Sensing Distance)	300	Dark-On	OR546-ND	216.53	194.88	EE-SPW321
	Slot (Wide Sensing Distance)	300	Light-On	OR547-ND	216.53	194.88	EE-SPW421
12	Fiber (19" Optical Fiber)	30	Dark-On	OR552-ND	100.34	90.31	EE-SPZ301W-01
	Fiber (19" Optical Fiber)	30	Light-On	OR553-ND	100.34	90.31	EE-SPZ401W-01
13	Reflective (11" Optical Fiber)	1.0 ~ 3.0	Dark-On	OR554-ND	138.17	124.36	EE-SPZ301Y-01
	Reflective (11" Optical Fiber)	1.0 ~ 3.0	Light-On	OR555-ND	104.94	94.45	EE-SPZ401Y-01
14	Inductive (Detects Ferrous Metal)	5.0	N/O Output	OR560-ND	60.00	54.00	E2R-A01
15	Slot (General Purpose)	3.6	Dark-On	OR574-ND	56.20	50.58	EE-SPX301
	Slot (General Purpose)	3.6	Light-On	OR575-ND	56.20	50.58	EE-SPX401
16	Slotted Liquid Level Detector	6.0 ~ 13	Light/Dark-On	OR579-ND	160.31	144.29	EE-SPX613
17	Reflective (General Purpose)	1.0	Dark-On	OR580-ND◆	17.04	15.34	EE-SPY415
18	Slot Type with 2M Cable – NPN	5.0	Dark-On	OR605-ND◆	38.41	34.57	EE-SX770
	Slot Type with 2M Cable – PNP	5.0	Dark-On	OR874-ND◆	37.80	34.03	EE-SX770P
	Slot Type with 2M Cable – NPN	5.0	Light-On	OR606-ND	38.95	35.06	EE-SX870
19	L-Shaped with 2M Cable – NPN	5.0	Dark-On	OR607-ND	38.66	34.80	EE-SX771
	L-Shaped with 2M Cable – NPN	5.0	Light-On	OR608-ND	39.30	35.37	EE-SX871
20	T-Shaped with 2M Cable – NPN	5.0	Dark-On	OR609-ND	39.96	35.97	EE-SX772
	T-Shaped with 2M Cable – NPN	5.0	Light-On	OR610-ND	39.96	35.97	EE-SX872

◆ ***RoHS Compliant*** † Built-in sensitivity adjuster

Description	Digi-Key Part No.	Price Each		Omron Part No.
		1	25	
Optical Sensor Accessories				
IR Reflector for Fig. 8, 60 x 40mm	OR540-ND◆	19.76	17.79	E39-R1
3 Pin Connector with 1 Meter Cable for Fig. 15	OR561-ND◆	9.16	8.25	E22-01
Converter from NPN to PNP Output for Amp Sensors	OR550-ND◆	35.80	32.23	EE-2001
Converter from NPN to PNP Output for AMP Sensors	OR551-ND◆	35.80	32.23	EE-2002
4 Pin Connector for Fig. 1-6	OR527-ND◆	3.66	3.30	EE-1001
4 Pin Connector with 2 Meter Cable for Fig. 1-6	OR559-ND◆	17.14	15.43	EE-1006
Panel Mount Holder Clip for OR559-ND	OR576-ND	5.14	4.63	EE-1006A
3 Pin Connector for Fig. 8, 12, 13 and 16	OR537-ND◆	3.66	3.30	EE-1002
3 Pin Connector with 2 Meter Cable for Fig. 4, 12 and 13	OR558-ND◆	6.47	5.83	EE-1003
Panel Mount Holder Clip for OR558-ND	OR583-ND	1.97	1.78	EE-1003A

◆ ***RoHS Compliant***

Unamplified Optical Sensors

Omron's unamplified optical sensors are low cost detection sensors for design in processes. Inputs generally require a current limiting resistor and care must be taken with reducing external lighting influences. Outputs switch at very high speeds and operating lifetimes extend beyond 10,000 operating hours.

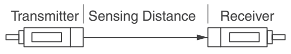

Through-Beam Slot Type

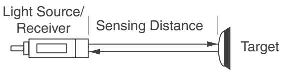

Reflective Type

Fig. 1

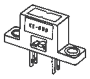

Fig. 2

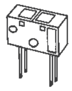

Fig. 3

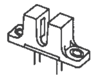

Fig. 4 *NEW!*

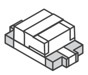

Fig. 5

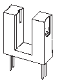

Fig. 6

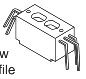

Low Profile

Fig. 7

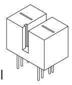

Dual Channel

Fig. 8

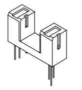

Fig. 9

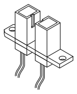

Fig. 10

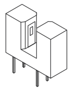

Fig. 11

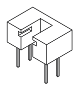

Fig. 12

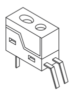

Fig. 13

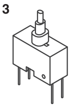

Fig. 14 *NEW!*

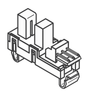

Fig.	Sensing Method	Sensing Distance (mm)	Terminal Type	Typical ton/toff (µsec.)	Digi-Key Part No.	Price Each			Omron Part No.
						1	25	100	
1	Reflective	5.0	Solder	30/30	OR500-ND	5.30	4.78	3.82	EE-SB5
	Reflective	5.0	PC Board	30/30	OR501-ND	5.30	4.78	3.82	EE-SB5-B
2	Reflective	5.0	Solder	30/30	OR502-ND	5.21	4.69	3.76	EE-SF5
	Reflective	5.0	PC Board	30/30	OR503-ND	5.21	4.69	3.76	EE-SF5-B
3	Slot	3.6	Solder	4/4	OR504-ND	3.98	3.58	2.87	EE-SG3
	Slot	3.4	Solder	4/4	OR713-ND	3.64	3.28	2.63	EE-SH3
	Slot	3.4	PC Board	4/4	OR779-ND	4.22	3.80	3.04	EE-SH3-G
	Slot	3.4	Solder	4/4	OR714-ND	4.52	4.07	3.26	EE-SV3
	Slot	3.4	PC Board	4/4	OR780-ND	3.98	3.58	2.87	EE-SV3-B
	Slot	3.4	PC Board	4/4	OR715-ND	4.67	4.21	3.37	EE-SX305
	Slot	3.4	PC Board	3/20	OR782-ND	2.50	2.25	1.80	EE-SX4088
	Slot	3.6	PC Board	4/4	OR505-ND	3.98	3.58	2.87	EE-SG3-B
4	Reflective	1.0	SMT	20/20	Z3020CT-ND ***NEW!***	2.06	1.86	1.49	EE-SY199
	Reflective	1.0	SMT	20/20	Z3020TR-ND ***NEW!***	2061.75/2000			EE-SY199
5	Slot	5.0	PC Board	4/4	OR518-ND	1.85	1.67	1.34	EE-SX1042
	Slot	4.6	PC Board	500Hz	OR556-ND	2.15	1.94	1.56	EE-SX1061
	Slot	3.0	PC Board	70/70	OR601-ND	2.15	1.94	1.56	EE-SX298
6	Reflective	5.0	PC Board	50Hz	OR525-ND	3.83	3.45	2.76	EE-SY310
	Reflective	5.0	PC Board	50Hz	OR526-ND	3.83	3.45	2.76	EE-SY410
	Reflective	4.4	PC Board	3/20	OR604-ND	4.13	3.72	2.98	EE-SY413
7	Slot	3.4	PC Board	4/4	OR523-ND	4.53	4.08	3.27	EE-SX1031
8	Slot	8.0	PC Board	3KHz	OR716-ND	2.25	2.03	1.62	EE-SX3070
	Slot	8.0	PC Board	3KHz	OR524-ND	2.14	1.93	1.55	EE-SX4070
	Slot	8.0	PC Board	3KHz	OR571-ND	1.85	1.67	1.34	EE-SX1070
	Slot	5.0	PC Board	3KHz	OR781-ND	2.14	1.93	1.55	EE-SX4081
9	Vertical Slot	3.4	61cm Wires	4/4	OR562-ND	11.31	10.18	8.15	EE-SX1088-W1
	Horizontal Slot	3.4	61cm Wires	4/4	OR563-ND	17.12	15.41	12.33	EE-SX1096-W1
10	Slot	3.0	PC Board	3/20	OR783-ND	2.14	1.93	1.55	EE-SX498
	Slot	3.4	PC Board	4/4	Z2991-ND ***NEW!***	3.52	3.18	2.54	EE-SJ3-C
	Slot	3.4	PC Board	4/4	OR569-ND	3.52	3.18	2.54	EE-SJ3-D
	Slot	2.8	PC Board	4/4	OR598-ND	2.26	2.04	1.63	EE-SX1025
	Slot	5.2	PC Board	4/4	OR599-ND	2.35	2.12	1.70	EE-SX1035
11	Slot	3.0	PC Board	4/4	OR570-ND	3.22	2.90	2.32	EE-SX1046
	Slot	2.0	PC Board	3/20	OR600-ND	3.26	2.94	2.35	EE-SX493
12	Red LED Reflect	4.0	PC Board	30/30	OR581-ND	12.60	11.34	9.08	EE-SY169
	IR Reflective	4.0	PC Board	30/30	OR582-ND	10.45	9.41	7.53	EE-SY169A
13	Actuator	Contact	PC Board	—	OR712-ND	2.98	2.69	2.15	EE-SA105
14	Slot	5.0	Snap-In	—	OR1002-ND ***NEW!***	3.22	2.90	2.32	EE-SX460-P1
	Transmissive	15.0	Snap-In	—	Z3028-ND ***NEW!***	6.38	5.75	4.60	EE-SX461-P11
	Transmissive	5.0	Snap-In	—	Z3029-ND ***NEW!***	2.60	2.34	1.87	EE-SX4235A-P2

OMRON

D6F Gas Flow Sensors

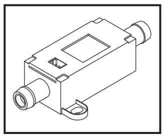

The D6F is a new supersensitive gas flow sensor. It is able to measure both gas velocity and direction at extremely low flow rates, and is ideal for looking at low pressure medical gases, boiler emissions, and HVAC system airflow. It is suitable for measuring the amount of oxygen and nitrogen dioxide, consumed from a respiratory apparatus in surgery. It can also be used for monitoring air circulation in a building and thus improving the performance and efficiency of air conditioning and building comfort systems. The extreme sensitivity is achieved with a tiny heating element, associated with temperature sensors on both sides. The deviation is temperature measured by the two sensors and used to calculate the gas flow and direction, generating a non-linear analogue output in the range of 1V ~ 5V.

Case Material	Suitable Gas	Flow Range	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
PPS	Air	0~1Liter/minute	Z1671-ND	173.36	156.03	138.70	D6F-01A1-110
PPS	Air	0~2Liter/minute	Z1672-ND	173.36	156.03	138.70	D6F-02A1-110
Aluminum	LNG*	0~5Liter/minute	Z1673-ND†	210.17	189.16	168.14	D6F-05N2-000
PPS	Air	0~3Liter/minute	Z2717-ND	272.95	245.66	218.36	D6F-03A3-0000
Connector with 2M Cable for D6F Sensors			Z2718-ND	10.20	9.19	8.17	D6F-CABLE2

* Liquid Natural Gas † D6F-05 is a 1/4" pipe thread version using British Taper (Rc) standard.

D6F Air Flow Sensors

Omron's mass flow sensor will detect flows of 1 ~ 10 liters per minute up to a 1 ~ 50 liter per minute version. They use a wide supply voltage range of 5 ~ 26.4VDC and will output an analog voltage of 0.5 ~ 5VDC. Perfect for medical apparatus, fuel cell monitoring and measuring instruments.

D6F

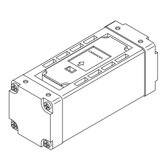

D6F-W

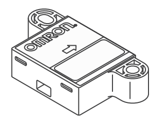

D6F-P

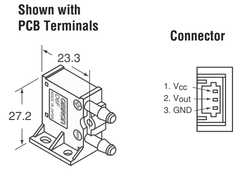

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Flow Sensor 0 ~ 10 Liters per minute, Straight Connect	Z2863-ND	321.98	289.78	257.58	D6F-10A6-000
Flow Sensor 0 ~ 20 Liters per minute	Z2864-ND	321.98	289.78	257.58	D6F-20A6-000
Flow Sensor 0 ~ 50 Liters per minute	Z2865-ND	321.98	289.78	257.58	D6F-50A6-000
Dustproof Flow Sensor 0~1 Liter, PCB	Z2785-ND	63.01	56.71	50.41	D6F-P0010A1
Dustproof Flow Sensor 0~1 Liter, Connector	Z2786-ND	63.01	56.71	50.41	D6F-P0010A2
Flow Sensor 0 ~ 1 Meters per second	Z2631-ND	104.94	94.45	83.96	D6F-W01A1
Flow Sensor 0 ~ 4 Meters per second	Z2632-ND	104.94	94.45	83.96	D6F-W04A1
Flow Sensor 0 ~ 3 Meters per second	Z2629-ND	40.94	36.85	32.76	D6F-V03A1
Cable for Air Flow Sensors	Z2209-ND	10.20	9.19	8.17	D6F-CABLE1
Cable for Air Flow Sensors (D6F-W)	Z2630-ND	5.12	4.61	4.10	D6F-W CABLE

D7E Vibration Sensors

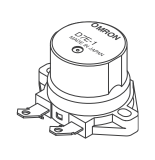

These vibration sensors are perfect for quick detection of movements that could cause damage to equipment or can be used to safely shut down critical operations. Sensors are auto-resettable and require no manual resetting. D7E vibration sensors are low cost sealed vibration sensors with various sensitivities. Use these sensors for industrial equipment, cranes, forklifts, industrial manufacturing and boilers. Use in natural gas meter shutoffs, vending machines, conveyor systems, earthquake sensors or any circuits that require safety shutoff during a period of vibration or tilting.

Specifications: • Various sensitivities • Contact Capacity: 100mA@5-30VDC • Contact Form: SPST-NC • Operating Temperature: -25°C ~ 60°C • Dielectric Strength: AC250V 50/60Hz

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
130 ~ 200 gallon Vibration Switch, 0.1A	Z2007-ND	12.00	10.80	9.60	D7E-1
100 ~ 170 gallon Vibration Switch, 0.1A	Z2008-ND	12.00	10.80	9.60	D7E-2
50 ~ 80° Tilt Switch, 0.1A	Z2009-ND	17.51	15.76	14.01	D7E-3

D7H Equipment Vibration Sensors

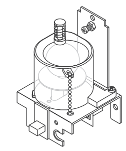

These vibration switches feature a highly durable stainless steel diaphragm that allows detection of very small movements. Used to prevent secondary damage after earthquakes and to replace mercury with a simple mechanical system. Manually resettable, vertically mounted sensor in either an enclosed case or open sensor.

Specifications: • 100 ~ 170 gallon, 10A 125VAC, 0.1A 30VDC • Operating Temperature: -10°C ~ 70°C

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Open Cased Vibration Detection Switch - 10A	Z2011-ND	90.24	81.22	72.19	D7H-B1

D6BN Tilt Sensors

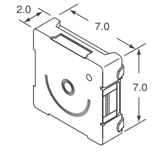

Ideal for equipment tilt detection. Will give you a separate output when tilted left or right. Perfect for signaling a screen to rotate from portrait to landscape view in keeping with product orientation. Can be used in space heaters.

Specifications:

- Output Current: 1mA • Operating Temperature: -10°C ~ 60°C

Characteristics:

- Supply Voltage: 2.4V ~ 3.6V • Output High Voltage: Vdd ~ 0.4V minimum • Output Low Voltage: 0.4V maximum • Current Consumption: 10μA maximum • Operating Angle: 40°C ~ 80°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Omron Part No.
Mini SMD Tilt Sensor - Left/Right	Z2676CT-ND	4.51	4.06	3.61	D6BN-IP
Mini SMD Tilt Sensor - Left/Right	Z2676TR-ND‡	5632.81/2,500			D6BN-IP

‡ Tape and Reel

Inductive Proximity Sensors

Omron's line of inductive sensors are designed for detecting the presence or absence of ferrous metal close to the sensor and provide an output when detected. Because inductive sensors use electromagnetic fields, they excel over photo type sensors in environments containing water, oil, dust and dirt. Shielded sensors are made with a shielding plate around the ferrite core to focus ferrous metal sensing at the sensors head. It also allows the sensor to be located or mounted close to surrounding metals.

Fig. 1

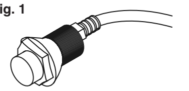

Fig. 2

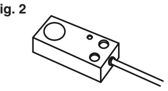

Fig.	Sensing Distance Maximum	Description	Terminal Type	Output Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	0.8mm	4mm Diameter, Short Barrel DC Proxy, Stainless Steel, Shielded	3-Wire	NPN	Z1651-ND	97.20	90.00	84.00	E2E-CR8C1
	1mm	M5, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1652-ND	94.28	87.30	81.48	E2E-X1C1
	1mm	5.4mm Diameter, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1653-ND	97.20	90.00	84.00	E2E-C1C1
	1.5mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1062-ND	69.01	63.90	59.64	E2E-X1R5E1
	2mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1064-ND	70.96	65.70	61.32	E2E-X2D1-N
	2mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1065-ND	69.01	63.90	59.64	E2E-X2E1
	2mm	M12, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1066-ND	82.62	76.50	71.40	E2E-X2Y1-US
	3mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1067-ND	71.93	66.60	62.16	E2E-X3D1-N
	5mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1068-ND	70.96	65.70	61.32	E2E-X5E1
	5mm	M18, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1069-ND	87.48	81.00	75.60	E2E-X5Y1-US
	10mm	M30, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1654-ND	75.82	70.20	65.52	E2E-X10E1
	1.5mm	M8, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1075-ND	106.92	99.00	92.40	E2F-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1076-ND	153.58	142.20	132.72	E2F-X1R5Y1
	2mm	M12, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1078-ND	89.42	82.80	77.28	E2F-X2E1
	2mm	M12, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1079-ND	127.98	118.50	110.60	E2F-X2Y1
	5mm	M18, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1080-ND	99.14	91.80	85.68	E2F-X5E1
	5mm	M18, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1081-ND	106.92	99.00	92.40	E2F-X5Y1-US
	10mm	M30, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1077-ND◆	116.64	108.00	100.80	E2F-X10E1
2	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	PNP	Z1082-ND	59.42	55.02	51.35	TL-W1R5MB1
	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1083-ND	59.42	55.02	51.35	TL-W1R5MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1084-ND	63.04	58.37	54.48	TL-W3MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1189-ND	63.04	58.37	54.48	TL-W3MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1085-ND	53.87	49.89	46.56	TL-W5MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1086-ND	53.87	49.89	46.56	TL-W5MC1
	20mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1660-ND	88.31	81.77	76.32	TL-W20ME1
Mounting Bracket, Fits M8 Size Sensors					Z1656-ND◆	3.57	3.31	3.09	Y92E-B8
Mounting Bracket, Fits M18 Size Sensors					Z1658-ND◆	3.57	3.31	3.09	Y92E-B18

◆ *RoHS Compliant*

Honeywell
Sensing and Control

Optical Sensors

Fig. 1
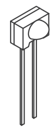

Fig. 2
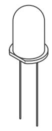

Fig. 3
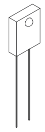

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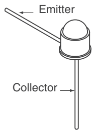

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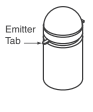

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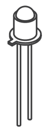

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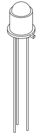

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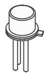

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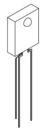

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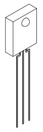

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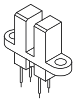

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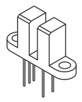

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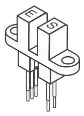

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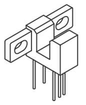

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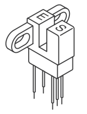

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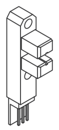

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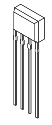

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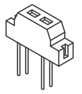

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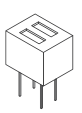

Fig. 20
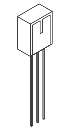

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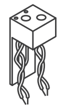

Note: 480-2971-ND has straight leads

Fig. 22
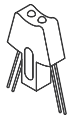

Fig. 23
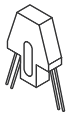

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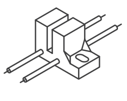

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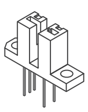

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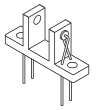

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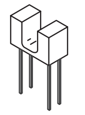

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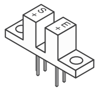

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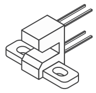

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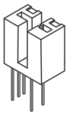

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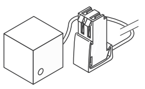

Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	VCEO (V)	IC (mA)	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
				AlGaAs					
1	Side-view	1.7	50	880nm	480-1968-ND◆	1.91	1.25	1.13	SEP8736-002
	Side-view	1.7	50	880nm	480-1969-ND◆	2.17	1.41	1.28	SEP8736-003
2	T-1	1.7	50	880nm	480-1965-ND◆	2.17	1.41	1.28	SEP8705-003
	T-1	1.7	20	880nm	480-2985-ND◆	2.27	1.48	1.34	SEP8705-002
3	Side-view	1.7	50	880nm	480-1966-ND◆	1.96	1.22	1.09	SEP8706-002
	Side-view	1.7	50	880nm	480-1967-ND◆	1.77	1.15	1.05	SEP8706-003
4	Coaxial	1.8	50	880nm	480-1977-ND◆	7.16	4.91	4.41	SE1470-003L
	Coaxial	1.8	50	880nm	480-1978-ND◆	7.33	5.02	4.52	SE1470-004L
5	Mini-pill	1.8	75	880nm	480-1980-ND◆	3.95	2.71	2.44	SE2470-002
6	TO-46	1.9	100	880nm	480-1981-ND◆	6.05	4.14	3.73	SE3470-003
	TO-46	1.9	100	880nm	480-1983-ND◆	5.75	3.94	3.55	SE5470-003
	TO-46	1.9	100	880nm	480-1984-ND	5.86	4.01	3.61	SE5470-004
				GaAs					
2	T-1	1.5	50	935nm	480-1961-ND◆	1.86	1.21	1.10	SEP8505-002
3	Side-view	1.5	50	935nm	480-1962-ND◆	1.61	1.00	.90	SEP8506-001
	Side-view	1.5	50	935nm	480-1963-ND◆	1.85	1.15	1.03	SEP8506-002
	Side-view	1.5	50	935nm	480-1964-ND◆	1.96	1.22	1.09	SEP8506-003
4	Coaxial	1.6	50	935nm	480-1976-ND◆	6.50	4.46	4.01	SE1450-003L
	Coaxial	1.6	50	935nm	480-2980-ND◆	6.87	4.71	4.23	SE1450-004L
5	Mini-pill	1.6	75	935nm	480-1979-ND◆	3.64	2.50	2.25	SE2460-003
6	TO-46	1.7	100	935nm	480-1982-ND	5.13	3.51	3.16	SE5455-003
	TO-46	1.7	100	935nm	480-2981-ND◆	5.59	3.83	3.44	SE3455-003
	TO-46	1.7	100	935nm	480-2982-ND◆	5.59	3.83	3.44	SE5450-013
	TO-46	1.7	100	935nm	480-2983-ND◆	5.59	3.83	3.44	SE5455-002
	TO-46	1.7	100	935nm	480-2984-ND◆	5.49	3.76	3.39	SE5455-004

◆ ***RoHS Compliant***

NPN Silicon Phototransistors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
				Silicon					
1	Transistor	30	10.0	15	480-1957-ND	1.77	1.15	1.05	SDP8436-002
	Transistor	30	17.5	15	480-1958-ND	1.77	1.15	1.05	SDP8436-003
2	Transistor	30	14	15	480-1951-ND	2.01	1.31	1.19	SDP8405-002
	Transistor	30	24	15	480-1952-ND	1.96	1.28	1.16	SDP8405-003
	Transistor	30	0.92	15	480-1953-ND	2.06	1.34	1.22	SDP8405-013
	Transistor	30	1.85	15	480-1954-ND	1.83	1.19	1.09	SDP8405-014
3	Transistor	30	3.60	15	480-1955-ND	1.61	1.00	.90	SDP8406-002
	Transistor	30	6.50	15	480-1956-ND	1.61	1.00	.90	SDP8406-003
4	Transistor	30	3.0	15	480-1970-ND	5.86	4.01	3.61	SD1440-003L
5	Transistor	30	4.0	15	480-1971-ND	3.31	2.27	2.04	SD2440-003
	Transistor	30	7.0	15	480-1972-ND	3.40	2.33	2.10	SD2440-004
7	Transistor	15	8.0 min.	75	480-2976-ND	5.94	4.07	3.66	SD5410-003
	Transistor	30	4.0 min.	15	480-2977-ND	5.16	3.53	3.18	SD5443-002
	Transistor	30	8.0 min.	15	480-2978-ND	5.16	3.53	3.18	SD5443-003
	Transistor	30	16.0 min.	15	480-2979-ND	5.23	3.58	3.23	SD5443-004
	Transistor	30	8.0	2	480-1973-ND	6.70	4.59	4.13	SD5491-004
8	Transistor	30	2.0 min.	15	480-2975-ND	5.23	3.58	3.23	SD3443-003
				Low Light Rejection					
3	Transistor	30	6.0	15	480-1959-ND	1.89	1.23	1.12	SDP8476-201

Optoschmitt Detectors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
7	TTL	16	18	60/15	480-1974-ND	6.46	4.42	3.98	SD5600-001
	TTL	16	18	60/15	480-1975-ND	6.38	4.37	3.93	SD5620-001
9	TTL	12	18	60/15	480-1960-ND	3.58	2.46	2.21	SDP8600-001
				Open-Collector Output					
10	TTL	12	15	7	480-1950-ND	4.15	2.84	2.56	SDP8314-301

Slotted Optoschmitt Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
				Transmissive					
11	Diode	7	15	70	480-1945-ND	8.86	6.49	6.07	HOA6990-T51
12	Transistor	10	10	60/15	480-1933-ND	6.50	4.45	4.00	HOA0961-N51
	Transistor	10	10	60/15	480-1934-ND	6.30	4.31	3.88	HOA0971-N51
	Open-Collector	12	15	70	480-1943-ND	6.65	4.87	4.56	HOA6961-T51
13	Open-Collector	4.5~12	50	70	480-2974-ND	10.52	7.70	7.21	HOA6991-T51
14	Schmitt Trigger	12	12	60/15	480-1941-ND	6.44	4.71	4.41	HOA2004-001
15	Transistor	12	12	60/6	480-1942-ND	11.05	8.09	7.57	HOA2005-001
16	Totem Pole	7	15	70	480-1944-ND	6.57	4.50	4.05	HOA6972-N55
	Totem Pole	12	15	70	480-1946-ND	11.77	9.02	8.52	HOA6991-T55
				Connectorized Transmissive					
16	Totem Pole	5.5	40	70	480-1947-ND	11.43	8.36	7.83	HOA7720-M22
				Encoder Detector					
17	Inverting Logic	5.5	7	100	480-1949-ND	4.16	2.85	2.56	HLC2701-001

Reflective Object Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
18	Transistor	30	30	15	480-1928-ND	4.79	3.28	2.95	HOA0149-001
19	Transistor	30	30	15	480-1935-ND	5.66	3.88	3.49	HOA1397-002
	Darlington	15	30	75	480-1936-ND	5.75	3.94	3.54	HOA1397-032
20	Transistor	30	30	15	480-1948-ND	3.22	2.21	1.99	HLC1395-001
21	Transistor	30	30	15	480-1985-ND	14.86	11.38	10.75	HOA1180-002
	Transistor	30	50	15	480-2971-ND	11.35	8.31	7.78	HOA2498-002
	Darlington	15	50	75	480-2960-ND	17.33	13.27	12.53	HOA1180-003
22	Transistor	30	30	15	480-1986-ND	13.07	10.01	9.45	HOA1404-002
	Darlington	15	50	75	480-2961-ND	13.14	10.06	9.50	HOA1404-003
23	Transistor	30	0.2	15	480-1987-ND	6.38	4.37	3.94	HOA1405-001
	Transistor	30	50	15	480-2962-ND	24.85	19.77	18.53	HOA1406-001
	Transistor	30	0.8	15	480-1988-ND	6.47	4.43	3.99	HOA1405-002
	Transistor	30	50	15	480-2957-ND	3.39	2.32	2.09	HLC1395-002
24	Photodarlington	15	50	75	480-2963-ND	9.31	6.81	6.38	HOA1870-033
				Transmissive					
11	Transistor	30	50	15	480-2958-ND	8.09	5.92	5.55	HOA0881-T55
15	Transistor	30	50	15	480-2969-ND	9.46	6.93	6.49	HOA1887-012
25	TTL	4.5~5	50	100ns	480-2959-ND	9.15	6.70	6.27	HOA0901-012
26	Transistor	30	30	15	480-1989-ND	10.74	7.86	7.36	HOA1877-001
	Transistor	30	50	15	480-2966-ND	11.03	8.07	7.56	HOA1877-002
	Darlington	15	50	75	480-2967-ND	12.18	8.92	8.35	HOA1877-003
27	Transistor	30	50	15	480-2965-ND	11.03	8.07	7.56	HOA1875-002
28	10kΩ Pull-Up	12	50	60/15ns	480-2970-ND	6.38	4.37	3.94	HOA2001-001
29	Transistor	30	50	15	480-2968-ND	7.46	5.11	4.60	HOA1884-012
				Emitter Detector Pair					
31	—	2~7	10	—	480-2972-ND†	16.12	12.34	11.66	HOA6299-002
	2.4kΩ Pull-Up	4.5~12	10	5	480-2973-ND‡	18.70	14.32	13.52	HOA6299-003

† Emitter ‡ Detector

Slotted Optical Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
11	Transistor	30	15	15	480-1939-ND◆	7.49	5.48	5.13	HOA1881-012
	Transistor	30	30	15	480-1931-ND◆	6.74	4.93	4.62	HOA0890-L51
12	Transistor	30	30	15	480-1938-ND	7.10	4.86	4.38	HOA1879-015
	Transistor	30	30	15	480-1929-ND◆	4.76	3.26	2.93	HOA0866-T55
	Transistor	30	30	15	480-1930-ND◆	5.58	3.82	3.44	HOA0875-N51
24	Transistor	30	30	15	480-1937-ND◆	9.23	6.76	6.33	HOA1870-031
27	Transistor	30	82	15	480-1940-ND◆	4.23	2.90	2.61	HOA1882-012
28	Darlington	15	50	75	480-2964-ND◆	5.84	4.00	3.60	HOA1873-013
				Transmissive Encoder — RoHS Compliant					
30	TTL	5.5	12	20	480-1932-ND	10.24	7.49	7.02	HOA0902-011

◆ ***RoHS Compliant***

OPTEK
A subsidiary of TT electronics plc

Switches

Fig. 1
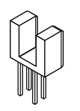

Fig. 2
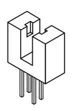

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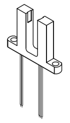

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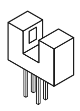

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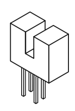

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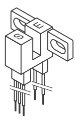

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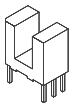

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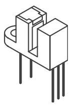

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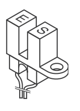

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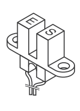

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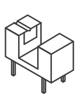

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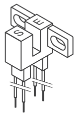

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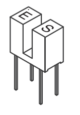

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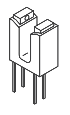

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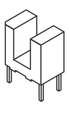

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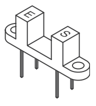

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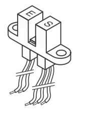

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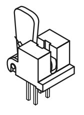

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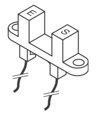

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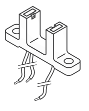

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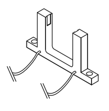

Fig.	Output Type	Slot Width Inch (mm)	Lead Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
				Slotted Optical				
1	Rbe Phototransistor	.190 (4.83)	.320 (8.13)	365-1008-ND	2.15	1.25	1.20	OPB620
2	Phototransistor	.155 (3.94)	.300 (7.62)	365-1017-ND	2.17	1.27	1.22	OPB804
3	Phototransistor	.20 (5.08)	—	365-1260-ND	5.56	3.24	3.11	OPB817Z
	Phototransistor	.20 (5.08)	—	365-1264-ND	7.59	4.42	4.25	OPB917BZ
4	Phototransistor	.210 (5.33)	.400 (10.16)	365-1019-ND	3.00	1.75	1.68	OPB818
5	Phototransistor	.100 (2.54)	.300 (7.62)	365-1021-ND	2.78	1.62	1.56	OPB848
6	Photologic	.125 (3.18)	—	365-1234-ND	7.10	4.13	3.97	OPB941W51Z
	Photologic	.125 (3.18)	—	365-1265-ND	7.07	4.12	3.96	OPB930W55Z
7	Photologic	.190 (4.83)	.320 (8.13)	365-1090-ND	2.78	1.62	1.56	OPB625
	Photologic	.125 (3.18)	.320 (8.13)	365-1111-ND	4.81	2.80	2.70	OPB970N11
	Photologic	.125 (3.18)	.320 (8.13)	365-1113-ND	4.24	2.47	2.37	OPB973N51
8	Photologic	.125 (3.18)	.320 (8.13)	365-1087-ND	3.91	2.28	2.19	OPB460L11
9	Phototransistor	.125 (3.18)	—	365-1341-ND	5.34	3.11	2.99	OPB880P51Z
10	Photologic	.125 (3.18)	—	365-1246-ND	6.22	3.62	3.48	OPB990T55Z
	Phototransistor	.125 (3.18)	—	365-1235-ND	5.31	3.09	2.97	OPB891T51Z
	Phototransistor	.125 (3.18)	—	365-1401-ND	5.17	3.01	2.90	OPB829CZ
11	Phototransistor	.205 (5.21)	.380 (9.65)	365-1105-ND	2.67	1.56	1.50	OPB855
12	Phototransistor	.125 (3.18)	—	365-1335-ND	5.75	3.35	3.22	OPB830W55Z
	Phototransistor	.125 (3.18)	—	365-1337-ND	7.34	4.28	4.11	OPB840W11Z
	Phototransistor	.125 (3.18)	.320 (8.13)	365-1101-ND	4.02	2.34	2.25	OPB840L11
	Phototransistor	.125 (3.18)	—	365-1338-ND	5.78	3.36	3.24	OPB841W55Z
13	Phototransistor	.125 (3.18)	.220 (5.59)	365-1106-ND	4.26	2.48	2.39	OPB865N11
14	Phototransistor	.160 (4.06)	.300 (7.62)	365-1099-ND	2.31	1.35	1.30	OPB825
15	Phototransistor	.150 (3.81)	.275 (6.99)	365-1089-ND	2.15	1.25	1.20	OPB610
16	Photologic	.125 (3.18)	.320 (8.13)	365-1110-ND	4.92	2.87	2.76	OPB960T11
	Photologic	.125 (3.18)	.320 (8.13)	365-1112-ND	4.04	2.36	2.27	OPB970T55
17	Photologic	.125 (3.18)	—	365-1402-ND	6.41	3.73	3.59	OPB981T51Z
	Photologic	.125 (3.18)	—	365-1403-ND	6.30	3.67	3.53	OPB990T51Z
				Slotted Optical Flag				
18	Transistor	.080 (2.03)	.275 (6.99)	365-1009-ND	5.34	3.11	2.99	OPB680
				Wide Gap Slotted Optical				
16	Phototransistor	.375 (9.53)	.570 (14.48)	365-1094-ND	3.25	1.89	1.82	OPB800L55
	Phototransistor	.375 (9.53)	.570 (14.48)	365-1095-ND	3.33	1.94	1.87	OPB810L51
	Phototransistor	.375 (9.53)	.570 (14.48)	365-1097-ND	3.19	1.86	1.79	OPB811L55
19	Phototransistor	.375 (9.53)	—	365-1331-ND	5.64	3.28	3.16	OPB810W51Z
	Phototransistor	.375 (9.53)	—	365-1333-ND	5.39	3.14	3.02	OPB811W55Z
20	Phototransistor	.375 (9.53)	—	365-1400-ND	5.78	3.36	3.24	OPB815WZ
21	Phototransistor	1.26 (32)	—	365-1262-ND	7.78	4.53	4.36	OPB819Z

Sensors

Fig. 1
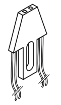

Fig. 2
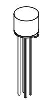

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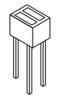

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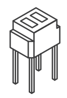

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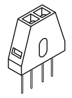

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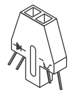

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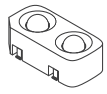

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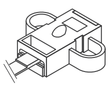

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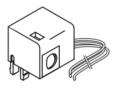

Fig. 10 — N Package
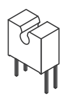

Fig. 11 — T Package
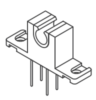

Reflective Object Sensors

Fig.	Continuous Forward Current (mA)	Reverse DC Voltage	V(BR)CEO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
1	100	2.0	25	18.0 (457.2)	365-1399-ND	12.35	7.19	6.91	OPB700ALZ
	100	2.0	25	4.0 (101.6)	365-1364-ND	10.92	6.36	6.11	OPB700Z
	50	2.0	25	18.0 (457.2)	365-1253-ND	14.27	8.31	7.99	OPB701ALZ
2	50	3.0	30	.50 (12.7)	365-1012-ND	8.36	4.87	4.68	OPB710
3	50	2.0	15	.45 (11.43)	365-1093-ND	3.69	2.15	2.07	OPB707A
	50	2.0	30	.45 (11.43)	365-1092-ND	2.86	1.67	1.60	OPB706A
4	50	2.0	30	.180 (4.57)	365-1088-ND	1.73	1.01	.97	OPB606A
5	40	2.0	30	.15 (3.81)	365-1014-ND	3.16	1.84	1.77	OPB742
	40	2.0	15	.15 (3.81)	365-1015-ND	3.93	2.29	2.20	OPB745
6	40	2.0	30	.165 (4.19)	365-1091-ND	3.63	2.12	2.04	OPB704
7	50	5.0	30	—	365-1510-1-ND◊	2.99	1.94	1.66	OPB733TR
	50	5.0	30	—	365-1510-2-ND†	685.00/500			OPB733TR

◊ Cut Tape † Tape and Reel

Reflective Color Sensor

Fig.	Continuous Forward Current (mA)	Supply Voltage VDD	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
8	30	5	365-1378-ND	24.92	14.50	13.94	OPB780Z

Photologic® Reflective Object Sensors

Fig.	Operating DC Supply Voltage	Minimum Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
9	4.75 ~ 5.25	18.0 (457.2)	365-1255-ND	9.35	5.44	5.24	OPB716Z

Liquid Tube Sensors

Fig.	Continuous Forward Current (mA)	Reverse DC Voltage	V(BR)CEO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
10	50	2.0	30	.33 (8.38)	365-1236-ND	6.93	4.04	3.88	OPB350
	50	2.0	25	.33 (8.38)	365-1237-ND	7.40	4.31	4.14	OPB350L187
	50	2.0	24	.33 (8.38)	365-1405-ND	7.40	4.31	4.14	OPB350L062
11	50	2.0	25	24 (610)	365-1239-ND	9.65	5.62	5.40	OPB350W187Z
	50	2.0	25	24 (610)	365-1240-ND	9.65	5.62	5.40	OPB350W250Z
	50	2.0	24	24 (610)	365-1406-ND	9.65	5.62	5.40	OPB350W062Z

Calibration Circuit Boards

Description	Digi-Key Part No.	Price Each	TTE/OPTEK Technology Part No.
Circuit Board for OPB350L125	365-1530-ND ***NEW!***	11.96	OCB350L125Z
Circuit Board for OPB350L187	365-1531-ND ***NEW!***	11.96	OCB350L187Z
Circuit Board for OPB350L250	365-1532-ND ***NEW!***	11.96	OCB350L250Z
Circuit Board PCB Mount	365-1533-ND ***NEW!***	9.48	OCB100AZ
Circuit Board Wired Optoelectronic Assembly	365-1534-ND ***NEW!***	10.56	OCB100CZ
Circuit Board and Optoelectronic Devices Kit	365-1507-ND	33.22	OCB100-KIT

Color Sensor Evaluation Kit

Description	Digi-Key Part No.	Price Each	TTE/OPTEK Technology Part No.
Full Color Sensor	365-1509-ND	97.50	OPB780KIT

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OPTEK

A subsidiary of TT electronics plc

Infrared Emitters and Receivers

Fig. 1

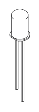

Fig. 2

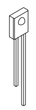

Fig. 3

Fig. 4

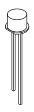

Fig. 5

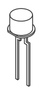

Fig. 6

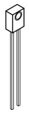

Fig. 7

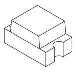

Fig. 8

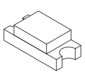

Fig. 9

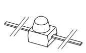

Fig. 10

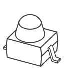

Fig. 11

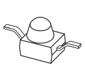

Fig. 12

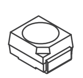

Fig. 13

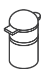

Fig. 14

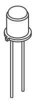

Fig. 15

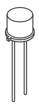

Fig. 16

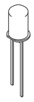

Fig. 17

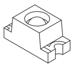

Fig. 18

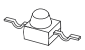

Fig. 19

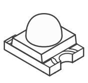

Fig. 20

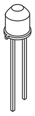

Fig. 21

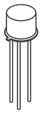

Fig. 22

Fig. 23

Fig. 24

Fig. 25 ***NEW!***

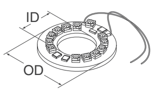

Infrared Light Emitting Diodes

Fig.	Style/ Package	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
					Plastic					
1	T-1 3/4	750mA	.50mW/cm2	890nm	50°	365-1060-ND	.99	.58	.56	OP294
	T-1 3/4	5.0A	44mW/cm2	890nm	20°	365-1061-ND	1.07	.63	.60	OP295A
	T-1 3/4	5.0A	77mW/cm2	890nm	20°	365-1062-ND	1.07	.63	.60	OP295B
	T-1 3/4	5.0A	210mW/cm2	890nm	50°	365-1056-ND	1.07	.63	.60	OP290A
	T-1 3/4	5.0A	16mW/cm2	890nm	50°	365-1057-ND	1.07	.63	.60	OP291A
	TO-46	2.0A	16mW/cm2	890nm	60°	365-1058-ND	.99	.58	.56	OP293A
	TO-46	2.0A	13mW/cm2	890nm	60°	365-1059-ND	.99	.58	.56	OP293B
	TO-46	2.0A	3.0mW/cm2	890nm	25°	365-1064-ND	.99	.58	.56	OP298A
	TO-46	2.0A	2.4mW/cm2	890nm	25°	365-1065-ND	.99	.58	.56	OP298B
	T-1	3.0A	2.70mW/cm2	890nm	18°	365-1054-ND	1.27	.74	.71	OP265A
	T-1	3.0A	1.95mW/cm2	935nm	18°	365-1046-ND	1.13	.66	.64	OP165A
	T-1	3.0A	0.85mW/cm2	935nm	18°	365-1047-ND	1.13	.61	.53	OP165C
	T-1	3.0A	1.95mW/cm2	935nm	18°	365-1049-ND	1.27	.74	.71	OP166A
2	Side-View	3.0A	0.60mW/cm2	890nm	40°	365-1052-ND	.99	.58	.56	OP240A
	Side-View	3.0A	0.60mW/cm2	890nm	40°	365-1053-ND	1.07	.63	.60	OP245A
	Side-View	3.0A	0.40mW/cm2	935nm	40°	365-1043-ND	.99	.58	.56	OP140A
	Side-View	3.0A	0.30mW/cm2	935nm	40°	365-1044-ND	.99	.58	.56	OP140B
3	Side-View	3.0A	0.40mW/cm2	935nm	40°	365-1045-ND	1.05	.61	.59	OP145A
4	T-1	3.0A	0.50mW/cm2	935nm	90°	365-1048-ND	1.24	.72	.70	OP165W
5	T-1	3.0A	1.00mW/cm2	890nm	90°	365-1055-ND	1.27	.74	.71	OP266W
6	Side View	1.0A	—	850nm	36°	365-1005-ND	2.59	1.51	1.45	OP245PS
					SMT Plastic					
7	0805	50mA	0.2mW/cm2	880nm	150°	365-1147-1-ND◊	.42	.28	.24	OP200
	0805	50mA	0.2mW/cm2	880nm	150°	365-1147-2-ND†	540.00/3,000			OP200
8	1206	50mA	0.2mW/cm2	880nm	150°	365-1148-1-ND◊	.42	.28	.24	OP250
	1206	50mA	0.2mW/cm2	880nm	150°	365-1148-2-ND†	380.00/2,000			OP250
9	Axial	50mA	1.5mW/cm2	880nm	25°	365-1150-ND	.47	.28	.27	OP270
10	Gull Wing	50mA	1.5mW/cm2	880nm	25°	365-1151-1-ND◊	.55	.36	.31	OP271
	Gull Wing	50mA	1.5mW/cm2	880nm	25°	365-1151-2-ND†	250.00/1,000			OP271
11	Rev. Gull Wing	50mA	1.5mW/cm2	880nm	25°	365-1153-1-ND◊	.59	.38	.33	OP273
12	PLCC	50mA	0.5mW/cm2	880nm	100°	365-1154-1-ND◊	.52	.34	.29	OP280
	PLCC	50mA	0.5mW/cm2	880nm	100°	365-1154-2-ND†	480.00/2,000			OP280
	PLCC-2	1.0A	0.50mW/cm2	940nm	100°	365-1468-1-ND◊	.49	.32	.27	OP180
	PLCC-2	1.0A	0.50mW/cm2	940nm	100°	365-1468-2-ND†	440.00/2,000			OP180
	PLCC-2	1.0A	0.85mW/cm2	875nm	90°	365-1469-1-ND◊	1.76	1.14	.98	OP280K
	PLCC-2	1.0A	0.85mW/cm2	850nm	90°	365-1470-1-ND◊	1.04	.68	.58	OP280KT
	PLCC-2	1.0A	0.85mW/cm2	850nm	90°	365-1470-2-ND†	920.00/2,000			OP280KT
	PLCC-2	1.0A	0.15mW/cm2	850nm	50°	365-1471-1-ND◊	3.22	2.08	1.79	OP280PS
	PLCC-2	1.0A	2.50mW/cm2	850nm	18°	365-1472-1-ND◊	11.12	7.19	6.16	OP280V
					Hermetically Sealed					
13	PC Mount	1.0A	1.00mW/cm2	935nm	24°	365-1040-ND	3.52	2.05	1.97	OP124
	PC Mount	1.0A	3.50mW/cm2	890nm	24°	365-1050-ND	3.41	1.99	1.91	OP224
14	TO-46	10.0A	4.0mW/cm2	935nm	18°	365-1041-ND	3.11	1.81	1.74	OP132
	TO-46	10.0A	5.0mW/cm2	935nm	18°	365-1042-ND	3.11	1.81	1.74	OP133
15	TO-46	10.0A	5.0mW/cm2	890nm	50°	365-1051-ND	3.30	1.92	1.85	OP233W

◊ Cut Tape † Tape and Reel

PIN Silicon Photodiodes

Fig.	Style/ Package	VR	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
6	Side-View	60V	935nm	5ns	365-1085-ND	.94	.55	.53	OP950
16	T-1	60V	935nm	5ns	365-1084-ND	.91	.53	.51	OP906
	T-1 3/4	60V	890nm	5ns	365-1086-ND	1.13	.66	.64	OP999

Infrared NPN Phototransistors

Fig.	Style/ Package	VCEO	IC	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
				SMT Phototransistors					
7	0805	30V	0.1mA	935nm	365-1478-1-ND◊	.39	.26	.22	OP501
	0805	30V	0.1mA	935nm	365-1478-2-ND†	510.00/3,000			OP501
8	1206	30V	0.5mA	935nm	365-1155-1-ND◊	.39	.26	.22	OP520
	1206	30V	0.5mA	935nm	365-1155-2-ND†	360.00/2,000			OP520
	1206	30V	0.5mA	935nm	365-1156-1-ND◊	.36	.24	.20	OP521
	1206	30V	0.5mA	935nm	365-1156-2-ND†	320.00/2,000			OP521
9	Axial	30V	2.5mA	935nm	365-1158-ND	.36	.21	.20	OP570
10	Gull Wing	30V	2.5mA	935nm	365-1159-1-ND◊	.39	.26	.22	OP571
12	PLCC	30V	2.5mA	935nm	365-1162-1-ND◊	.52	.34	.29	OP580
	PLCC	30V	2.5mA	935nm	365-1162-2-ND†	460.00/2,000			OP580
17	1206	30V	1.0mA	935nm	365-1157-1-ND◊	.36	.24	.20	OP522
	1206	30V	1.0mA	935nm	365-1157-2-ND†	320.00/2,000			OP522
18	Yoke	30V	5.0mA	935nm	365-1160-1-ND◊	.33	.21	.18	OP572
19	1210	30V	1.0mA	935nm	365-1475-1-ND◊	.49	.32	.27	OP525
				Phototransistors					
1	T-1 3/4	30V	2.35mA	890nm	365-1077-ND	.91	.53	.51	OP599A
	T-1	30V	4.30mA	935nm	365-1066-ND	.83	.48	.47	OP505A
	T-1	30V	2.15mA	935nm	365-1067-ND	.83	.48	.47	OP505B
	T-1	30V	4.30mA	935nm	365-1068-ND	1.05	.61	.59	OP506A
	T-1	30V	2.15mA	935nm	365-1069-ND	1.05	.61	.59	OP506B
6	Side-View	30V	2.55mA	935nm	365-1070-ND	.94	.55	.53	OP550A
	Side-View	30V	1.30mA	935nm	365-1071-ND	.94	.55	.53	OP550B
	Side-View	30V	0.25mA	935nm	365-1072-ND	.94	.55	.53	OP550C
13	PC Mount	25V	7.0mA	890nm	365-1078-ND	3.19	1.86	1.79	OP644SL
20	TO-18	30V	3.0mA	890nm	365-1074-ND	.94	.55	.53	OP593A
	TO-18	30V	7.5mA	890nm	365-1075-ND	.94	.55	.53	OP598A
	TO-18	30V	5.0mA	890nm	365-1076-ND	.94	.55	.53	OP598B
21	TO-18	30V	0.5mA	890nm	365-1079-ND	3.82	2.23	2.14	OP801WSL
	TO-18	30V	2.5mA	890nm	365-1080-ND	3.82	2.23	2.14	OP802WSL
22	TO-18	30V	7.0mA	890nm	365-1081-ND	2.94	1.72	1.65	OP804SL
	TO-18	30V	15.0mA	890nm	365-1082-ND	2.94	1.72	1.65	OP805SL
				Photodarlington					
6	Side-View	15V	1.1mA	935nm	365-1073-ND	1.68	.98	.94	OP560C
7	0805	35V	10.0mA	935nm	365-1480-1-ND◊	.49	.32	.27	OP501DA
	0805	35V	10.0mA	935nm	365-1479-1-ND◊	.49	.32	.27	OP500DA
8	1206	35V	10mA	935nm	365-1473-1-ND◊	.52	.34	.29	OP521DA
	1206	35V	10mA	935nm	365-1474-1-ND◊	.52	.34	.29	OP520DA
12	PLCC	35V	10.0mA	935nm	365-1481-1-ND◊	.49	.32	.27	OP580DA
19	1210	35V	10.0mA	935nm	365-1476-1-ND◊	.59	.38	.33	OP525DA
21	TO-18	15V	4mA	890nm	365-1083-ND	3.82	2.23	2.14	OP830WSL

◊ Cut Tape † Tape and Reel

Fig.	Style/ Package	Output	Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
				Photologic				
23	Side-View	TTL/LSTTL	935nm	365-1115-ND	2.12	1.24	1.19	OPL550
	Side-View	TTL/LSTTL	935nm	365-1116-ND	2.23	1.30	1.25	OPL550-OCA

VCSEL Infrared Emitting Laser Diodes

Fig.	Style/ Package	Peak Current Forward	Optical Power Output	Peak Emission Wavelength	Beam Diver-gence	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
6	Lateral Convex	20mA	1.5mW	850nm	6°	365-1146-ND	8.72	5.08	4.88	OPV382
24	Lateral Flat	20mA	1.5mW	850nm	20°	365-1145-ND	8.47	4.93	4.74	OPV380

NEW! Infrared Light Ring Series

Fig.	Style/ Package	Ring Size (Inch) ID	OD	VCC	Qty. of LEDs	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
25	Surface Mount	.625	1.25	12	12	365-1519-ND	14.97	14.37	13.82	OPA80SM5AZ
		1.25	2.0	12	18	365-1520-ND	21.95	21.08	20.27	OPA80SM5CZ
		.625	1.25	5	10	365-1521-ND	13.22	12.69	12.20	OPA82SM5AZ
		1.25	2.0	5	16	365-1522-ND	20.35	19.54	18.79	OPA82SM5CZ
	Through Hole	.625	1.25	12	12	365-1523-ND	19.70	18.92	18.19	OPA80T35AZ
		1.25	2.0	12	18	365-1524-ND	28.77	27.62	26.56	OPA80T35CZ
		.625	1.25	5	10	365-1525-ND	17.82	17.11	16.45	OPA82T35AZ
		1.25	2.0	5	16	365-1526-ND	27.30	26.21	25.20	OPA82T35CZ

Kingbright
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Infrared LEDs

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

Fig. 1
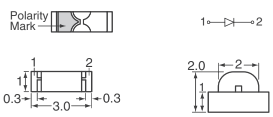

Fig. 2 ***NEW!***
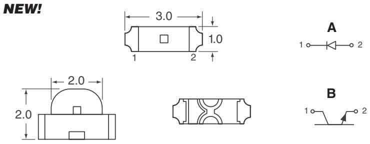

Fig. 3
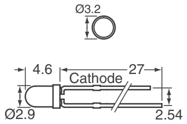

Fig. 4 ***NEW!***
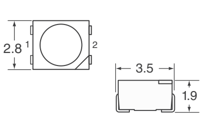

Fig. 5 ***NEW!***
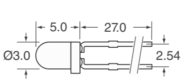

Fig. 6 ***NEW!***
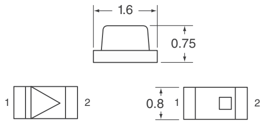

Fig. 7 ***NEW!***
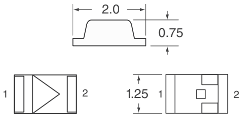

Fig. 8 ***NEW!***
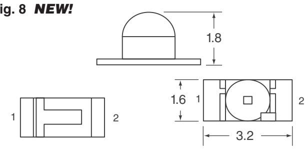

Infrared Emitters

Fig.	LED Diameter (mm)	Peak Wavelength (nm)	Operating Lens Color	Typical Current (mA)	Forward Voltage	Digi-Key Part No.	Cut Tape Pricing 1	10	25	Kingbright Part No.
1	3.0 x 1.0	880	Clear	20	1.3	754-1070-1-ND	.59	4.39	8.78	APA3010SF4C
1	3.0 x 1.0	880	Clear	20	1.3	754-1070-2-ND‡		352.00/2,000		APA3010SF4C
2A	3.0 x 1.0	940	Clear	20	1.2	754-1363-1-ND ***NEW!***	.36	2.70	5.40	APECVA3010F3C
2A	3.0 x 1.0	940	Clear	20	1.2	754-1363-2-ND‡ ***NEW!***		216.00/2,000		APECVA3010F3C
3	3.0	940	Clear	20	1.2	754-1241-ND§	.20	—	3.77	WP7104F3C
4	3.5 x 2.8	940	Clear	20	1.2	754-1395-1-ND ***NEW!***	.39	2.93	5.85	AA3528AF3C
4	3.5 x 2.8	940	Clear	20	1.2	754-1395-2-ND‡ ***NEW!***		175.50/1,500		AA3528AF3C
6	1.6 x 0.8	940	Clear	20	1.2	754-1433-1-ND ***NEW!***	.26	1.95	3.90	APT1608F3C
6	1.6 x 0.8	940	Clear	20	1.2	754-1433-2-ND‡ ***NEW!***		156.00/2,000		APT1608F3C
7	2.0 x 1.25	940	Clear	20	1.2	754-1435-1-ND ***NEW!***	.26	1.95	3.90	APT2012F3C
7	2.0 x 1.25	940	Clear	20	1.2	754-1435-2-ND‡ ***NEW!***		156.00/2,000		APT2012F3C
8	3.2 x 1.6	880	Clear	20	1.3	754-1443-1-ND ***NEW!***	.65	4.88	9.75	APTD3216SF4C
8	3.2 x 1.6	880	Clear	20	1.3	754-1443-2-ND‡ ***NEW!***		390.00/2,000		APTD3216SF4C

‡ Tape and Reel § Bulk

NEW! Phototransistors

Fig.	Output Type	Style/Package	Dark Current I(CEO) (nA)	Peak Sensitivity Wavelength (nm)	Digi-Key Part No.	Cut Tape Pricing 1	10	25	Kingbright Part No.
2B	NPN	SMT	100	940	754-1365-1-ND	.36	2.70	5.40	APECVA3010P3BT
2B	NPN	SMT	100	940	754-1365-2-ND‡		216.00/2,000		APECVA3010P3BT
4	NPN	SMT	100	940	754-1396-1-ND	.39	2.93	5.85	AA3528AP3C
4	NPN	SMT	100	940	754-1396-2-ND‡		175.50/1,500		AA3528AP3C
5	NPN	Thru-Hole	100	940	754-1468-ND§	.20	—	3.77	WP3DP3BT
6	NPN	SMT	100	940	754-1436-1-ND	.26	1.95	3.90	APT2012P3BT
6	NPN	SMT	100	940	754-1436-2-ND‡		156.00/2,000		APT2012P3BT

‡ Tape and Reel § Bulk

LUMEX®
Creating LED and LCD Solutions Together™

Infrared LEDs

RoHS COMPLIANT

Dimensions in mm

Fig.	LED Diameter (mm)	Peak Wave-Length (nm)	Operating Lens Color	Typical Current (mA)	Forward Voltage	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	3.0	940	Clear	60	1.2	67-1000-ND	.61	.45	.29	OED-EL-8L
2	5.0	940	Clear	100	1.2	67-1001-ND	.67	.49	.32	OED-EL-1L2

Fig. 1
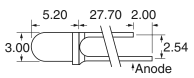

Fig. 2
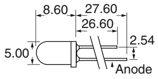

Panasonic®

Photo Interrupter

Photo Interrupters are a transmissive photosensor series in which a high efficiency GaAs infrared light emitting diode is used as the light emitting element, and a high sensitivity photo transistor is used as the light detecting element. The two elements face each other, so an object passing between them is detected.

Fig.	Sensing Method	Sensing Distance	Terminal Type	Typ. ton/toff (µsec.)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Slot	3.0mm	PC Board	5/5	CNZ1021-ND◆	1.39	1.16	.93	CNZ1021
2	Slot	3.0mm	PC Board	5/5	CNZ1023-ND◆	1.33	1.07	.80	CNZ1023
3	Slot	0.9mm	PC Board	35/35	CNZ1002-ND	.87	.73	.59	CNZ1002
	Slot	1.2mm	PC Board	35/35	CNA1303K-ND◆	.87	.73	.59	CNA1303K
	Slot	2.0mm	PC Board	35/35	CNA1302K-ND◆	.87	.73	.59	CNA1302K
4	Slot	5.0mm	PC Board	6/6	CNZ1111-ND◆	2.65	2.12	1.65	CNZ1111
5	Slot	5.0mm	PC Board	6/6	CNZ1112-ND◆	2.02	1.62	1.22	CNZ1112
6	Slot	10.0mm	PC Board	6/6	CNZ1120-ND◆	1.86	1.49	1.12	CNZ1120
7	Slot	1.0mm	PC Board	50/50	CNA1311K-ND◆	.87	.66	.50	CNA1311K
	Slot	1.0mm	PC Board	50/50	CNA1311K0TLC-ND◆	1.04	.87	.70	CNA1311K0TLC
	Slot	2.0mm	PC Board	50/50	CNA1312K0TLC-ND◆	.98	.82	.66	CNA1312K0TLC
8	Slot	3.0mm	PC Board	5/5	CNA1006N-ND◆	.77	.58	.44	CNA1006N

◆ ***RoHS Compliant***

Fig. 1
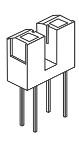

Fig. 2
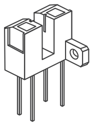

Fig. 3
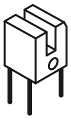

Fig. 4
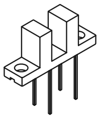

Fig. 5
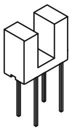

Fig. 6
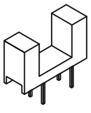

Fig. 7
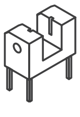

Fig. 8
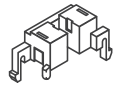

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Optical Sensors

Optical Interrupters

Fig.	Output Type	Slot Width (mm)	Response Time (tr/tf) (µs)	Max. Output Current (mA)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
1	NPN	1.2	10/10	30	511-1629-1-ND†	1.09	9.11	72.91	RPI-0125
	NPN	1.2	10/10	30	511-1629-2-ND‡	382.50/750			RPI-0125
	NPN	1.2	10/10	30	511-1630-1-ND†	1.08	8.07	60.55	RPI-0126
	NPN	1.2	10/10	30	511-1630-2-ND‡	716.00/2,000			RPI-0126
2	NPN	1.0	10/10	30	511-1336-ND	1.50	9.29	67.97	RPI-121
	NPN	1.0	10/10	30	511-1338-ND	1.24	7.25	49.58	RPI-124F
	NPN	2.3	10/10	30	511-1347-ND	1.18	6.90	47.22	RPI-221
	NPN	2.0	10/10	30	511-1348-ND	1.54	9.00	61.62	RPI-222
	NPN	4.0	10/10	30	511-1341-ND	1.32	7.69	52.65	RPI-411C1
3	NPN	0.8	10/10	30	511-1337-ND	1.41	8.71	63.72	RPI-122F
4	NPN	1.2	10/10	30	511-1339-ND	1.41	8.71	63.72	RPI-131
	NPN	2.0	10/10	30	511-1349-ND	1.78	11.01	80.50	RPI-243
5	NPN	2.0	10/10	30	511-1350-ND	1.46	8.52	58.32	RPI-246
6	NPN	3.0	10/10	30	511-1340-ND	.97	5.69	38.96	RPI-303
7	NPN	3.0	10/10	30	511-1351-ND	1.44	8.38	57.37	RPI-352
8	NPN	5.0	10/10	30	511-1475-ND	1.20	7.59	56.93	RPI-579N1
9	Photo IC	1.1	5/.05	10	511-1342-ND	2.12	13.77	105.38	RPI-1133
10	SMD	1.2	10/10	30	846-1005-1-ND† ***NEW!***	1.15	6.73	46.04	RPI-0128T81
	SMD	1.2	10/10	30	846-1005-2-ND‡ ***NEW!***	686.00/2,000			RPI-0128T81
11	SMD	1.2	10/10	30	846-1006-1-ND† ***NEW!***	1.22	7.55	55.23	RPI-0129
	SMD	1.2	10/10	30	846-1006-2-ND‡ ***NEW!***	366.00/750			RPI-0129
12	SMD	2.0	30/30	30	846-1007-1-ND† ***NEW!***	1.18	7.26	53.10	RPI-0226
	SMD	2.0	30/30	30	846-1007-2-ND‡ ***NEW!***	842.00/2,000			RPI-0226
13	DIP	1.2	10/10	30	846-1008-ND ***NEW!***	1.15	6.73	46.04	RPI-128
14	DIP	1.2	10/10	30	846-1009-ND ***NEW!***	1.15	6.73	46.04	RPI-130
15	DIP	4.0	10/10	30	846-1010-ND ***NEW!***	1.44	8.89	65.00	RPI-392
16	DIP	2.0	10/10	30	846-1011-ND ***NEW!***	2.16	14.00	107.17	RPI-5100
17	DIP	1.5	10/10	30	846-1012-ND ***NEW!***	2.34	15.22	116.52	RPI-151

† Cut Tape ‡ Tape and Reel

Photoreflectors

Fig.	Style/ Package	Max. Output Current (mA)	Vf (V)	Emitting Wavelength (nm)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
18	Top	30	1.34	800	511-1366-ND	2.45	15.90	121.69	RPR-220
19	Case	30	2.6	950	846-1013-ND ***NEW!***	3.06	19.90	152.31	RPR-220UC30N
	Case	30	3.8	470	846-1014-ND ***NEW!***	6.38	43.68	347.42	RPR-220PC30N

Phototransistors

Fig.	Output Type	Style/ Package	Max. Output Current (mA)	Peak Sensitivity Wavelength (nm)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
20	NPN	SMT	20	800	511-1355-1-ND†	1.06	6.21	42.50	RPM-012PBT87F
	NPN	SMT	20	800	511-1355-2-ND‡	317.00/1,000			RPM-012PBT87F
21	NPN	SMT	10	600	511-1356-1-ND†	1.32	7.69	52.65	RPM-075PTT86
	NPN	SMT	10	600	511-1356-2-ND‡	1125.00/3,000			RPM-075PTT86
22	NPN	SMT	30	950	511-1631-1-ND†	2.56	21.33	170.66	RPI-1031
	NPN	SMT	30	950	511-1631-2-ND‡	896.25/750			RPI-1031
23	NPN	Side View	30	800	511-1353-ND	.65	3.80	25.97	RPM-20PBF
24	NPN	Side View	30	800	511-1354-ND	.75	4.38	29.98	RPM-22PB
25	NPN	Top	30	800	511-1357-ND	.77	4.49	30.69	RPT-34PB3F
	NPN	T1	30	800	511-1358-ND	.87	5.11	34.94	RPT-37PB3F
	NPN	T1	30	800	511-1359-ND	.91	5.31	36.36	RPT-38PB3F

† Cut Tape ‡ Tape and Reel

Infrared Emitters

Fig.	Style/ Package	If Max. (mA)	Vf (V)	Emitting Wave-length (nm)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
23	Side View	50	1.3	950	511-1361-ND	1.07	6.24	42.73	SIM-20ST
24	Side View	50	1.3	950	511-1362-ND	.89	5.18	35.41	SIM-22STF
25	T1	100	1.3	950	511-1363-ND	.57	3.20	20.78	SIR-34ST3FF
	T1¾	100	1.3	950	511-1364-ND	.57	3.20	20.78	SIR-56ST3FF
	T1	75	1.2	940	511-1343-ND	1.06	6.21	42.50	SIR-320ST3FF
	T1	75	1.3	940	511-1344-ND	.89	5.18	35.41	SIR-341ST3FF
	T1¾	100	1.38	950	511-1345-ND	.77	4.49	30.69	SIR-505STA47F
	T1¾	100	1.34	940	511-1365-ND	.57	3.20	20.78	SIR-563ST3FM
	T1¾	100	1.6	850	511-1346-ND	1.96	12.73	97.43	SIR-568ST3F
26	SMD - Top View	100	2.5	870	846-1015-1-ND† ***NEW!***	2.35	15.25	116.72	SIM-030ST
	SMD - Top View	100	2.5	870	846-1015-2-ND‡ ***NEW!***	2850.00/3,000			SIM-030ST
27	SMD - Top View	100	1.7	870	846-1016-1-ND† ***NEW!***	1.44	9.38	71.78	SIM-040ST
	SMD - Top View	100	1.7	870	846-1016-2-ND‡ ***NEW!***	1734.00/3,000			SIM-040ST

† Cut Tape ‡ Tape and Reel

Fig. 1

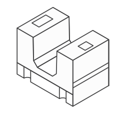

Fig. 2

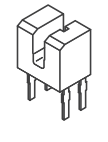

Fig. 3

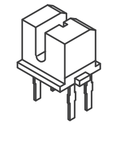

Fig. 4

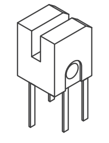

Fig. 5

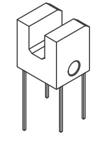

Fig. 6

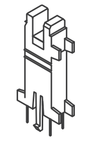

Fig. 7

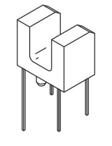

Fig. 8

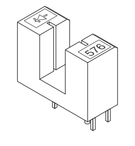

Fig. 9

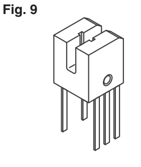

Fig. 10 ***NEW!***

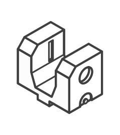

Fig. 11 ***NEW!***

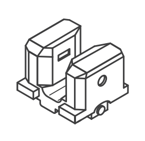

Fig. 12 ***NEW!***

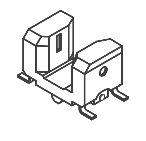

Fig. 13 ***NEW!***

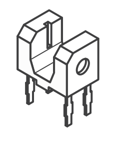

Fig. 14 ***NEW!***

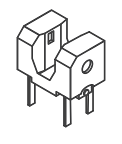

Fig. 15 ***NEW!***

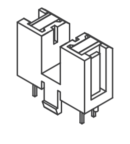

Fig. 16 ***NEW!***

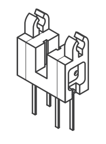

Fig. 17 ***NEW!***

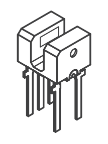

Fig. 18

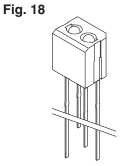

Fig. 19 ***NEW!***

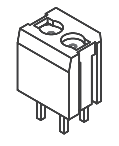

Fig. 20

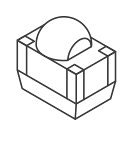

Fig. 21

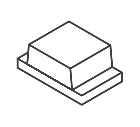

Fig. 22

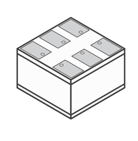

Fig. 23

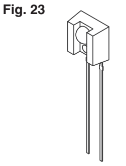

Fig. 24

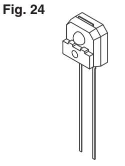

Fig. 25

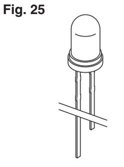

Fig. 26 ***NEW!***

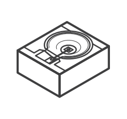

Fig. 27 ***NEW!***

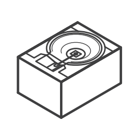

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Semiconductor

Dimensions in mm

Fig. 1

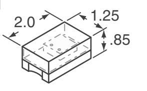

Fig. 2

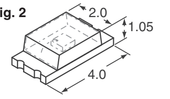

Fig. 3

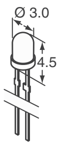

Fig. 4

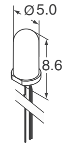

Fig. 5

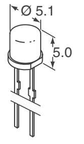

Fig. 6

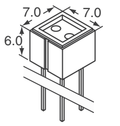

Fig. 7

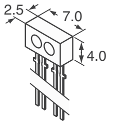

Fig. 8

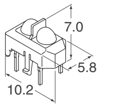

Fig. 9

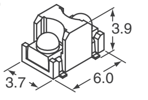

Fig. 10

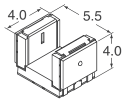

Fig. 11

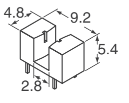

Fig. 12

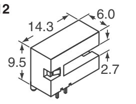

Fig. 13

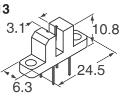

Ambient Light Sensors

Fig.	Package	Peak Wave-length (nm)	Bandwidth (nm)	Photo Current Standard Typ. (µA)	View Angle (°)	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
1	0805 SMD	550	450 ~ 610	12	120	751-1056-1-ND†	1.12	1.01	.80	TEMT6200FX01
	0805 SMD	550	450 ~ 610	12	120	751-1056-2-ND‡		1239.00/3,000		TEMT6200FX01
2	1206 SMD	540	430 ~ 610	0.04	120	751-1051-1-ND†	2.05	1.76	1.44	TEMD6010FX01
	1206 SMD	540	430 ~ 610	0.04	120	751-1051-2-ND‡		2373.00/3,000		TEMD6010FX01
	1206 SMD	570	360 ~ 970	50	120	751-1055-1-ND†	1.27	1.14	.91	TEMT6000X01
	1206 SMD	570	360 ~ 970	50	120	751-1055-2-ND‡		1407.00/3,000		TEMT6000X01
3	3mm	570	360 ~ 970	200	60	751-1057-ND	.62	.55	.42	TEPT4400
4	5mm	570	360 ~ 970	350	40	751-1058-ND	.66	.58	.45	TEPT5600
5	5mm	570	360 ~ 970	75	100	751-1059-ND	.66	.58	.45	TEPT5700

† Cut Tape ‡ Tape and Reel

Reflective Sensors

Fig.	Operating Range (mm)	Peak Operating Distance (mm)	Output	Package	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
6	0 ~ 4.5	≤0.5	Transistor	Straight Leads	751-1025-ND	1.18	1.05	.83	CNY70
7	0.2 ~ 4.0	1	Transistor	Straight Leads	751-1031-ND	1.06	.94	.75	TCRT1000
	0.2 ~ 4.0	1	Transistor	Bent Leads	751-1032-ND	1.10	.97	.77	TCRT1010
8	0.2 ~ 15	2.5	Transistor	Short Leads	751-1033-5-ND	1.06	.94	.75	TCRT5000
	0.2 ~ 15	2.5	Transistor	Straight Leads	751-1034-5-ND	1.06	.94	.75	TCRT5000L
9	2 ~ 25	6	PIN Photodiode	4-SMD	751-1029-1-ND†	2.61	2.25	1.84	TCND5000
	2 ~ 25	6	PIN Photodiode	4-SMD	751-1029-2-ND‡		2016.00/2,000		TCND5000

† Cut Tape ‡ Tape and Reel

Transmissive or Interrupter Sensors

Fig.	Gap (mm)	Package	Aperture (mm)	Rise/Fall Time (µs)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel§ Pricing 2,000	Vishay Part No.
10	3.0	6-SMD	0.3	20 / 30	751-1030-1-ND	1.89	1.69	1.35	696.00/M	TCPT1300X01
	3.0	—	0.3	20 / 30	751-1040-1-ND	2.02	1.74	1.42	780.00/M	TCUT1300X01
11	2.8	—	0.5	15 / 10	751-1036-5-ND†	1.03	.92	.73	—	TCST1230
12	2.7	—	0.5	15 / 10	751-1039-5-ND†	1.53	1.36	1.07	—	TCST5250
13	3.1	w/o flange	0.5	10 / 8	751-1035-5-ND†	1.35	1.20	.95	—	TCST1202
	3.1	with flange	0.5	10 / 8	751-1037-5-ND†	1.56	1.41	1.14	—	TCST2202

† Tube § For Tape & Reel part number, change 1-ND to 2-ND.

Melexis Microelectronic Integrated Systems

Programmable Linear Hall Effect ICs

Features:

- Quad switched/chopper stabilized
- Ratio metric output for A/D interface
- Adjustable quiescent voltage (V_{OQ})
- Very low quiescent voltage temperature drift
- Adjustable sensitivity
- Adjustable temperature compensation of sensitivity

Dimensions in mm

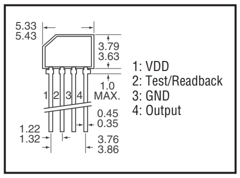

Description	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	50
Precision Programmable Linear Hall IC	-40 ~ 85	4-SIP(VA)	MLX90215EVA-ND◆	9.13	6.86	5.67	4.72
Precision Programmable Linear Hall IC	-40 ~ 150	4-SIP(VA)	MLX90215LVA-ND◆	9.54	7.17	5.92	4.94
Daughter Board for PTC Devices			PTC-04-DB-90316-ND	145.00	—	—	—
Programmer for PTC Devices			PTC-04-ND	1450.00	—	—	—

◆ ***RoHS Compliant***

Hall Effect Sensor ICs — US Series

Output Type: Open Drain

Package	Supply Voltage	Operating Point (mT) Min.	Typ.	Max.	Release Point (mT) Min.	Typ.	Max.	Operating Type†	Temperature Range	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
TSOT-3L	3.5 ~ 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Bipolar	-40°C ~ 85°C	US1881ESECT-ND◆	1.64	1.24	.95	.57	US1881ESETR-ND◆	367.00/M
UA-92	3.5 ~ 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Bipolar	-40°C ~ 85°C	US1881EUA-ND§	1.55	1.17	.90	.53	—	—
TSOT-3L	3.5 ~ 24	0.5	—	9.5	-9.5	—	-0.5	Bipolar	-40°C ~ 150°C	US1881LSECT-ND◆	1.82	1.38	1.06	.63	US1881LSETR-ND◆	408.00/M
UA-92	3.5 ~ 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Bipolar	-40°C ~ 150°C	US1881LUA-ND◆§	1.92	1.45	1.11	.66	—	—
TSOT-3L	3.5 ~ 24	0.5	—	4.5	-4.5	—	-0.5	Bipolar	-40°C ~ 85°C	US2881ESECT-ND◆	1.82	1.38	1.06	.63	US2881ESETR-ND◆	408.00/M
UA-92	3.5 ~ 24	0.5	—	4.5	-4.5	—	-0.5	Bipolar	-40°C ~ 85°C	US2881EUA-ND◆§	1.92	1.45	1.11	.66	—	—
TSOT-3L	3.5 ~ 24	0.5	—	4.5	-4.5	—	-0.5	Bipolar	-40°C ~ 150°C	US2881LSECT-ND◆	2.03	1.53	1.18	.70	US2881LSETR-ND◆	453.00/M
UA-92	3.5 ~ 24	0.5	—	4.5	-4.5	—	-0.5	Bipolar	-40°C ~ 150°C	US2881LUA-ND◆§	2.13	1.61	1.24	.73	—	—
TSOT-3L	3.5 ~ 24	-3.0	—	6.0	-6.0	—	3.0	Bipolar	-40°C ~ 85°C	US2882ESECT-ND◆	1.73	1.31	1.01	.60	US2882ESETR-ND◆	387.00/M
UA-92	3.5 ~ 24	-3.0	—	6.0	-6.0	—	3.0	Bipolar	-40°C ~ 85°C	US2882EUA-ND§	1.82	1.38	1.06	.63	—	—
TSOT-3L	3.5 ~ 24	-3.5	—	6.0	-6.0	—	3.5	Bipolar	-40°C ~ 150°C	US2882LSECT-ND◆	1.93	1.45	1.12	.66	US2882LSETR-ND◆	430.00/M
UA-92	3.5 ~ 24	-2.0	2.0	6.0	-6.0	-2.0	2.0	Bipolar	-40°C ~ 150°C	US2882LUA-ND§◆	1.82	1.37	1.05	.63	—	—
UA-92	2.2 ~ 18	0.5	2.0	4.5	-4.5	-2.0	-0.5	Bipolar	-40°C ~ 85°C	US4881EUA-ND◆§	1.73	1.30	1.00	.60	—	—
UA-92	2.2 ~ 18	0.5	2.0	4.5	-4.5	-2.0	-0.5	Bipolar	-40°C ~ 150°C	US4881LUA-ND◆§	1.92	1.45	1.11	.66	—	—
UA-92	3.5 ~ 24	15	25	30	9.5	20	28	Unipolar	-40°C ~ 85°C	US5881EUA-ND◆§	2.00	1.51	1.16	.69	—	—
UA-92	3.5 ~ 24	15	25	30	9.5	20	28	Unipolar	-40°C ~ 150°C	US5881LUA-ND§	2.22	1.67	1.29	.76	—	—
TSOT-3L	3.5 ~ 24	7	12	15	3.5	7.5	10	Unipolar	-40°C ~ 85°C	US5781ESECT-ND◆	2.11	1.59	1.22	.73	US5781ESETR-ND◆	471.00/M
UA-92	3.5 ~ 24	7	12	15	3.5	7.5	10	Unipolar	-40°C ~ 85°C	US5781EUA-ND◆§	2.22	1.67	1.29	.76	—	—
TSOT-3L	3.5 ~ 24	7	12	15	3.5	7.5	10	Unipolar	-40°C ~ 150°C	US5781LSECT-ND◆	2.10	1.58	1.22	.72	US5781LSETR-ND◆	470.00/M
UA-92	3.5 ~ 24	7	12	15	3.5	7.5	10	Unipolar	-40°C ~ 150°C	US5781LUA-ND◆§	2.47	1.86	1.43	.85	—	—
TSOT-3L	3.5 ~ 24	7	12	15	3.5	7	10	Unipolar	-40°C ~ 85°C	US5782ESECT-ND◆	2.18	1.64	1.26	.75	US5782ESETR-ND◆	486.00/M
TSOT-3L	3.5 ~ 24	7	12	15	3.5	7	10	Unipolar	-40°C ~ 150°C	US5782LSECT-ND◆	2.42	1.82	1.40	.83	US5782LSETR-ND◆	540.00/M

◆ ***RoHS Compliant*** † Unipolar is only sensitive to either a north or south pole of a magnet. Bipolar is sensitive to alternating magnetic fields of both north and south poles. § Bulk

Dimensions in mm

TSOT-3L Top View

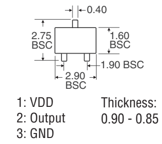

UA-92 Front View

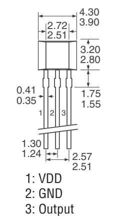

NEW! Automotive Camera Module

Features: • Monochrome NTSC Camera • >120dB Wide Dynamic Range • High Sensitivity in Visible and NIR • 54° FOV lens • Robust IP63 Housing • Automatic Exposure Control (AE), Autobrite® Automatic Wide Dynamic Range (WDR) Control • Manual settings possible via I2C • Qualified Automotive Design • Low power (960mW @ 4.4V and 30fps)

Applications: • Night Vision • Vision for Autonomous Vehicles • Vision for Commercial Vehicles • Security Vision

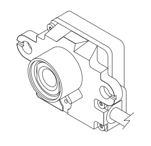

Description	Resolution	Speed	Digi-Key Part No.	Price Each	Melexis Part No.
Automotive Camera Module	640 x 480	30fps	MLX75403ACM-ND	361.00	MLX75403 “ACM”

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

OPTEK
A subsidiary of TT electronics plc

Hallogic®
Hall Effect Sensors

Fig. 1

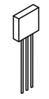

Fig. 2

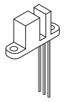

Fig.	Operate Point* Min. / Typ. / Max. (Gauss - B)	Release Point Min. / Typ. / Max. (Gauss - B)	Hysteresis Typ. / Max. (Gauss - B)	Supply Cur. Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
1	0/90/180	-100/65/100	25/100	6/9	365-1001-ND	2.67	1.56	1.50	OH090U
	70/—/200	50/—/180	—/—	4/7	365-1003-ND	3.11	1.81	1.74	OHS3140U
	235/300/465	120/235/325	65/200	6/9	365-1036-ND	2.67	1.56	1.50	OH360U
	70/—/350	50/—/330	—/—	4/7	365-1037-ND	3.11	1.81	1.74	OHN3120U

Fig.	Output Current (mA)	Output DC Voltage	Output Rise Typ./ Max.	Output Fall Time Typ./ Max.	Supply Current Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
2	25	25	0.21/1.00 µs	0.25/1.00 µs	4/7	365-1002-ND	6.74	3.92	3.77	OHB900

Latching

Fig.	Operate Point* Min./ Max. (Gauss - B)	Release Point Min. / Max. (Gauss - B)	Hysteresis Min. (Gauss - B)	Supply Cur. Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TTE/OPTEK Technology Part No.
1	25/170	-170/-25	100	4/7	365-1039-ND	2.34	1.36	1.31	OHS3175U

* South pole facing symbolized surface.

HAMLIN Hall Effect Sensors

Hamlin's Hall Effect Sensor technology offers unique design benefits. In applications where high speed switching is required, speeds of up to 10KHz can be reached. The component package is small compared with other sensing technologies and the sensors can be specified with either a digital or analogue output.

Dimensions in Inches (mm)

Fig. 1

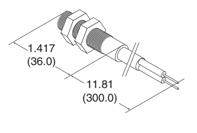

- M12-1 thread
- *55075 Has a robust stainless steel barrel and comes with two retaining nuts.*

Fig. 2

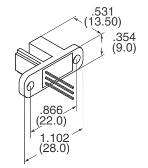

Fig. 3

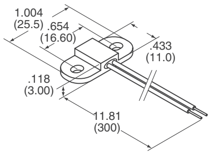

Fig. 4

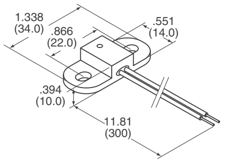

Fig. 5

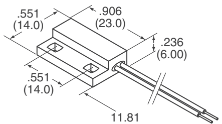

Fig. 6 ***NEW!***

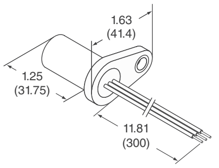

Fig.	Supply Voltage (VDC)	Output Current (mA)	Terminal Type	Features	Digi-Key Part No.	Price Each 1	10	50	Hamlin Part No.
1	4.75 ~ 25.2	20	24AWG Wires	Geartooth	55075-00-02-A-ND	28.00	23.42	19.09	55075-00-02-A
2	3.8 ~ 24	20	PC Mount	Ferrous Vane	55085-3M-00-0-ND	8.87	7.51	6.28	55085-3M-00-0
3	3.8 ~ 24	10	24AWG Wires	Mini PNL MNT	55100-3H-02-A-ND	7.22	6.11	5.11	55100-3H-02-A
4	3.8 ~ 24	10	24AWG Wires	LED PNL MNT	55110-3H-02-A-ND	9.52	8.06	6.74	55110-3H-02-A
5	3.8 ~ 24	20	24AWG Wires	Flange MNT	55140-3H-02-A-ND	7.02	5.94	4.97	55140-3H-02-A
6	4.75 ~ 24	20	20AWG Wires	Flange MNT	55505-00-02-A-ND ***NEW!***	21.87	18.51	15.48	55505-00-02-A

Panasonic® Hall Effect Sensors

Lower power consumption and higher sensitivity over previous versions.

Dimensions in Inches

Fig. 1

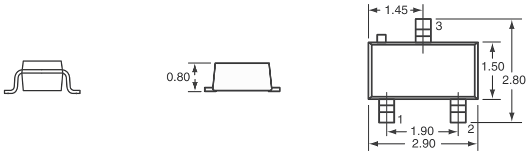

Fig. 2

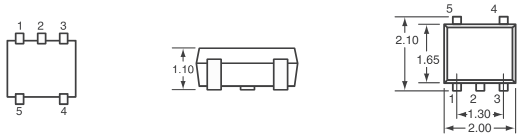

Fig.	Supply Voltage (VDC)	Output Current (mA)	Output Type	Polarity	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
1	2.5 ~ 3.5	30	Open Drain	Unipolar	Mini-3	AN48800A-NLCT-ND	1.14	.96	.77	—	—	AN48800A-NL
	2.5 ~ 3.5	15	Open Drain	Unipolar†	Mini-3	AN48820A-NLCT-ND	1.14	.96	.77	—	—	AN48820A-NL
2	2.5 ~ 3.5	15	CMOS	Unipolar	S-Mini-5	AN48810B-NLCT-ND	1.14	.96	.77	AN48810B-NLTR-ND	495.00/M	AN48810B-NL
	2.5 ~ 3.5	15	CMOS	Bipolar	S-Mini-5	AN48840B-NLCT-ND	1.41	1.18	.94	AN48840B-NLTR-ND	610.00/M	AN48840B-NL
	2.5 ~ 5.25	—	CMOS	Bipolar	S-Mini-5	AN48841B-NLCT-ND	1.33	1.11	.89	AN48841B-NLTR-ND	577.00/M	AN48841B-NL

† Polarity Independent

MAGNASPHERE® Magnetic Switches

The patented, award-winning MAGNASPHERE switch represents the first break-through in two-wire magnetic switch technology since the introduction of the reed switch. Originally designed as a replacement for the reed switch used in security systems, the MAGNASPHERE switch exhibits a wide range of characteristics that make it an ideal solution for many industrial and commercial OEM applications.

Features: • Hermetically sealed contacts • Magnetic anti-tamper • High voltage EMI resistance • Wide operating temperature range • Intrinsically safe for use in volatile atmospheres • Available in form A (normally open) and form B (normally closed)

Fig.	Air Gap Distance (Inches) NEO 35 Magnet (Typ.) Open	NEO 35 Magnet (Typ.) Closed	Ferrous Metal (Typ.) Open	Ferrous Metal (Typ.) Closed	Digi-Key Part No.	Price Each 1	10	25	100	Magnasphere Part No.
					Normally Open					
1	1.313	.818	.089	.053	735-1000-ND	6.90	5.31	5.15	4.75	MG-A2-1.5-N
	.897	.652	.061	.034	735-1001-ND	7.18	5.53	5.37	4.88	MG-A2-3.0-N
	.643	.569	.048	.030	735-1002-ND	7.18	5.53	5.37	4.88	MG-A2-5.0-N
2	.713	.577	—	—	735-1003-ND	7.36	5.78	5.61	4.86	MG-A2-5.5-TW
					Normally Closed					
3	.626	.916	—	—	735-1004-ND	6.97	5.79	5.63	4.88	MG-B2-20-S
4	.904	.991	.128	.152	735-1005-ND	6.75	5.87	5.71	4.84	MG-B2-6.5-L
	.943	1.015	.116	.138	735-1006-ND	6.50	5.65	5.50	4.84	MG-B2-8.0-L
	.843	.902	.111	.131	735-1007-ND	6.50	5.65	5.50	4.84	MG-B2-10-L

Dimensions in Inches

Fig. 1

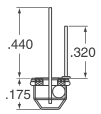

Fig. 2

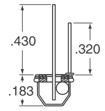

Fig. 3

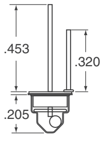

Fig. 4

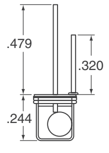

Honeywell
Sensing and Control

Sensors

Hall Effect Sensors

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	25	Tape & Reel‡ Qty.	Pricing	Honeywell Part No.
1	3.8 ~ 30	10mA	Sink	Lead Wires	—	480-1992-ND	7.57	5.54	5.19	—	—	SR16C-J6
2	4.5 ~ 24	40mA	Sink	Lead Wires	—	480-1990-ND	28.45	22.64	21.21	—	—	4AV16F
3	3.8 ~ 30	20mA	Sink	Lead Wires	Unipolar	480-1991-ND	6.41	4.69	4.39	—	—	SR13C-A1
4	3.8 ~ 30	40mA	Sink	Lead Wires	—	480-1993-ND	8.36	6.12	5.73	—	—	SR17C-J6
5	3.8 ~ 30	20mA	Sink	SOT89	Bipolar	480-2011-1-ND	2.34	1.52	1.38	1,000	895.00	SS511AT
	3.8 ~ 30	20mA	Sink	SOT89	Unipolar	480-2012-1-ND	2.04	1.33	1.21	1,000	782.00	SS541AT
	3.8 ~ 30	20mA	Sink	SOT89	Bipolar Latch	480-2013-1-ND	2.75	1.70	1.52	1,000	895.00	SS561AT
6	4.5 ~ 24	40mA	Sink	Lead Wires	—	480-2021-ND	23.69	18.85	17.66	—	—	1GT101DC
7	8.0 ~ 16	10mA	Source	PC Board	Ratiometric Linear	480-2007-ND	14.08	10.78	10.19	—	—	91SS12-2
	6.6 ~ 12.6	1mA	Sink/Source	PC Board	Ratiometric	480-2008-ND	18.67	14.29	13.50	—	—	SS94A1
	6.6 ~ 12.6	1mA	Sink/Source	PC Board	Ratiometric	480-2009-ND	20.56	15.74	14.87	—	—	SS94A1F
8	4.5 ~ 24	20mA	Sink	PC Board	Bipolar	480-1999-ND	1.82	1.19	1.08	—	—	SS41
	3.8 ~ 30	20mA	Sink	PC Board	Bipolar	480-2000-ND	3.10	2.02	1.83	—	—	SS411A
	3.8 ~ 30	20mA	Sink	PC Board	Unipolar	480-2001-ND	2.02	1.31	1.20	—	—	SS441A
	3.8 ~ 30	20mA	Sink	PC Board	Unipolar	480-2002-ND	1.97	1.28	1.17	—	—	SS443A
	3.8 ~ 30	20mA	Sink	PC Board	Bipolar Latch	480-2003-ND	2.02	1.31	1.20	—	—	SS461A
	4.0 ~ 24	10µA	Digital Open	PC Board	Bipolar Latch	480-3310-ND ***NEW!***	1.75	1.09	.97	—	—	SS461C
	3.8 ~ 30	20mA	Sink	PC Board	Bipolar Latch	480-2004-ND	1.86	1.22	1.11	—	—	SS466A
	4.5 ~ 10.5	1.5mA	Sink/Source	PC Board	Ratiometric	480-2005-ND	2.84	1.85	1.68	—	—	SS495A
	3.0 ~ 6.5	1.5mA	Source	PC Board	Analog	480-2006-ND	2.17	1.41	1.29	—	—	SS49E
9	4.5 ~ 24	20mA	Sink	Lead Wires	Unipolar	480-2014-ND	24.61	19.58	18.34	—	—	103SR13A-1
10	4.5 ~ 24	20mA	Analog Voltage	—	Bipolar	480-3295-1-ND ***NEW!***	1.69	1.05	.94	—	—	SS30AT
	4.0 ~ 24	10µA	Digital Open	—	Bipolar Latch	480-3309-1-ND ***NEW!***	2.00	1.24	1.11	3,000	650.00/M	SS361CT

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Temperature Sensors

Fig.	Supply Voltage (VDC)	Supply Current	Temperature Sensing Range	Length (Inch)	Termination	Packaging Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
8	10.0	1mA	-40°C ~ 150°C	—	SIP	Plastic Case	480-2017-ND	2.97	1.93	1.76	TD5A
9	10.0	1mA	—	1.5	Lead Wires	3/8-24 UNF-2A	480-2016-ND	27.54	21.91	20.53	TD4A

Magnet Sensors

Fig.	Outside Diameter mm (Inch)	Thread Dimension (Inch)	Length mm (Inch)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
11	7.9 (0.31)	8-32	17.0 (0.67)	480-2015-ND	10.97	8.03	7.52	102MG11

Current Sensors

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Terminal Type	Polarity	Sensor Type	Current Type	Response Time	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
12	5.4 ~ 13.2	—	Voltage	PCB	—	Open Loop Linear	AC or DC	3µs	480-1994-ND	19.73	15.11	14.27	CSLA2CD
13	4.5 ~ 10.5	1.5mA	Voltage	PCB	Positive	Open Loop	DC	50µs	480-1995-ND	10.40	7.61	7.12	CSLH3A45
14	4.75 ~ 5.25	12.5mA	Current	PCB	—	Closed Loop Linear	AC or DC	≤0.2µs	480-1996-ND	24.66	19.62	18.39	CSNX25

Switch Sensor

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Transistor State	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
15	4.5 ~ 24.0	10mA	Sink	Normally Off	480-2018-ND	9.26	6.78	6.34	VX10

MR Sensor

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Polarity	Operate Point	Release Point @25°C	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
16	3.8 ~ 30.0	20mA	Sink	Omnipolar	1.5mT	1.1mT	480-1997-ND	3.52	2.41	2.17	2SS52M

Oxygen Sensors and Oxygen Sensor Interface Boards

Fig.	Supply Voltage (VDC)	Oxygen Sensors Supply Current	Oxygen Range	Gas Flow Rate	Output Signal	Digi-Key Part No.	Price Each 1	10	Honeywell Part No.
Oxygen Sensors									
17	—	—	2 ~ 3,000 mbar	0 ~ 20 m/sec.	—	480-2089-ND	330.14	284.45	KGZ-10SP
18	—	—	2 ~ 3,000 mbar	0 ~ 10 m/sec.	—	480-2088-ND	215.17	185.40	GMS10RVS
19	—	—	2 ~ 3,000 mbar	0 ~ 20 m/sec.	—	480-2090-ND	259.51	223.60	KGZ-10
20	24.0 ±5%	500mA	0 ~ 100%	0 ~ 10 m/sec.	1 ~ 10 Volt	480-2092-ND	1572.68	1397.19	MF010-0-LC2
	24.0 ±5%	500mA	0 ~ 25%	0 ~ 10 m/sec.	4 ~ 20mA	480-2093-ND	1572.68	1397.19	MF010-0-LC3
	24.0 ±5%	500mA	0 ~ 100%	0 ~ 10 m/sec.	4 ~ 20mA	480-2094-ND	1572.68	1397.19	MF010-0-LC4
Oxygen Sensor Interface Boards									
—	24.0 ±20%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2095-ND	641.00	561.40	DE800.V.1
—	24.0 ±20%	—	0 ~ 100%	—	0 ~ 10 Volt	480-2096-ND	1022.24	902.84	DE800.V.2
—	24.0 ±20%	—	0 ~ 25%	—	4 ~ 20mA	480-2097-ND	641.00	561.40	DE800.A.1
—	24.0 ±20%	—	0 ~ 100%	—	4 ~ 20mA	480-2098-ND	641.00	561.40	DE800.A.2
—	±15.0/±10%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2099-ND	379.60	327.07	ELECDIT.V.1
—	±15.0/±10%	—	0 ~ 100%	—	0 ~ 10 Volt	480-2100-ND	379.60	327.07	ELECDIT.V.2
—	24.0 ±20%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2103-ND	387.19	333.61	OXYMAC50.V.1
—	24.0 ±20%	—	0 ~ 100%	—	0 ~ 10 Volt	480-2104-ND	387.19	333.61	OXYMAC50.V.2
—	24.0 ±20%	—	0 ~ 25%	—	4 ~ 20mA	480-2105-ND	387.19	333.61	OXYMAC50.A.1
—	24.0 ±20%	—	0 ~ 100%	—	4 ~ 20mA	480-2106-ND	387.19	333.61	OXYMAC50.A.2

NEW! SMART Position Sensor

Fig.	Supply Voltage (VDC)	Supply Current	Output Type	Termination Style	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
21	6 ~ 24	32mA	Analog	Wire Leads	480-3311-ND	196.57	169.37	161.30	SPS-L075-HALS

Fig. 1
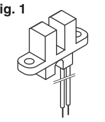

Fig. 2
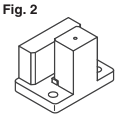

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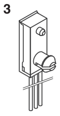

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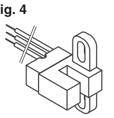

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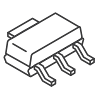

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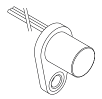

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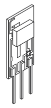

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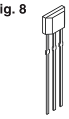

Fig. 9
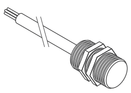

Fig.10 *NEW!*
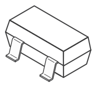

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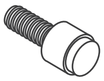

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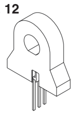

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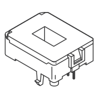

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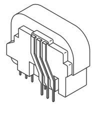

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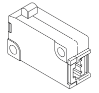

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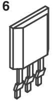

Fig. 17
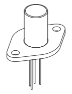

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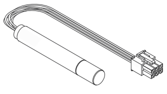

Fig. 19
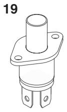

Fig. 20
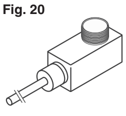

Fig. 21 *NEW!*
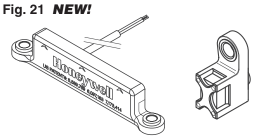

Liquid Level Sensors

Fig. 1
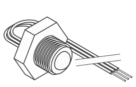

Fig. 2
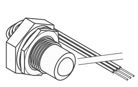

Fig. 3
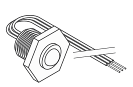

Fig. 4
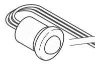

Fig. 5
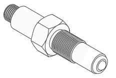

Fig.	Operating Temperature	Description	Level Type	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	-25°C ~ 80°C	Screw In, M12 Thread, Plastic	1	480-2022-ND◆	40.31	32.07	30.05	LLE101000
	-40°C ~ 125°C	Screw In, M12 Thread, Plastic	1	480-2026-ND	55.44	45.93	43.95	LLE101101
2	-25°C ~ 80°C	Screw In, M12 Thread, Plastic	2	480-2023-ND	42.33	33.67	31.55	LLE102000
	-40°C ~ 125°C	Screw In, M12 Thread, Plastic	2	480-2027-ND	53.62	44.42	42.51	LLE102101
3	-25°C ~ 80°C	Screw In, M12 Thread, Plastic	3	480-2024-ND◆	43.19	34.36	32.19	LLE103000
	-40°C ~ 125°C	Screw In, M12 Thread, Plastic	3	480-2028-ND	57.25	47.43	45.38	LLE103101
4	-25°C ~ 80 °C	Push In, Plastic	5	480-2025-ND	42.04	33.44	31.33	LLE105000
	-40°C ~ 125°C	Push In, Plastic	5	480-2029-ND	51.29	42.49	40.66	LLE105101
5	-40°C ~ 125°C	Industrial High Air, Stainless	5	480-2030-ND	206.58	178.00	169.52	LLN8651721
	-40°C ~ 125°C	Industrial Low Air, Stainless	5	480-2031-ND	206.58	178.00	169.52	LLN865172-2

◆ ***RoHS Compliant***

Honeywell
Sensing and Control

VRS and Hall Effect Speed Sensors

VRS Sensors are for high speed sensing applications where higher output voltages are needed. **Hall Effect Speed Sensors** are designed for use with a ferromagnetic gear or pole wheel to generate impulse frequencies proportional to the speed of the target.

Fig. 1

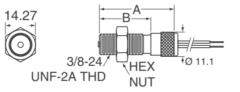

Fig. 2

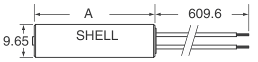

Fig. 3

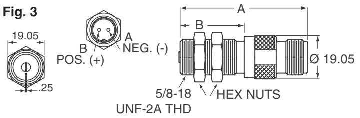

Fig. 4

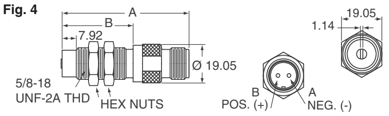

Fig. 5

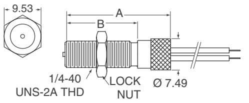

Fig. 6

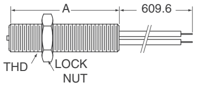

3015S13, 3025S13 THD = 3/8-24 UNF 2A
3050S10 THD = 1/4-40 UNS-2A
3080 THD = 10-32 UNF-2A
3010S20, 3030S20, 3030S30, 3040S20 THD = 5/8-18 UNF-2A

Fig. 7

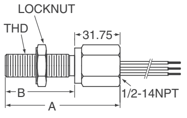

3070 THD = 3/4-20 UNEF-2A
3090 THD = 5/8-18 UNF-2A

Fig. 8

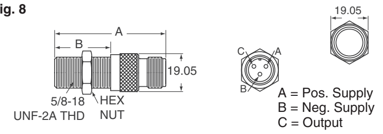

A = Pos. Supply
B = Neg. Supply
C = Output

Fig. 9

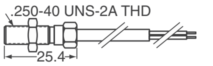

Fig. 10

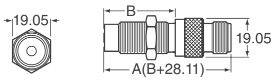

Fig. 11

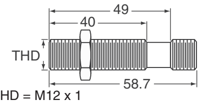

G01 THD = M12 x 1
G02 THD = 5/8-18 UNF-2A

Fig. 12

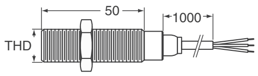

G01 THD = M12 x 1
G02 THD = 5/8-18 UNF-2A

Fig. 13

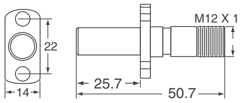

Fig. 14

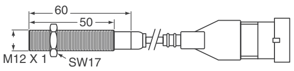

Fig. 15

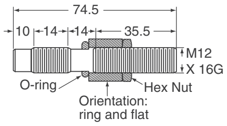

Fig. 16

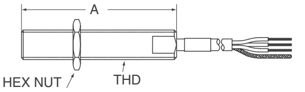

LCZ260 THD = 3/8-24UNF-2A
LCZ460 THD = 5/8-18UNF-2A

Fig. 17

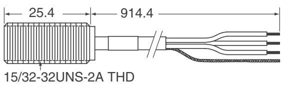

Fig. 18

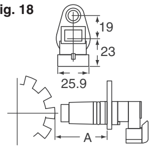

Fig. 19

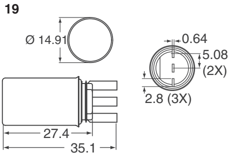

Fig. 20

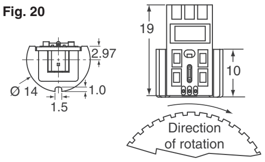

Fig. 21

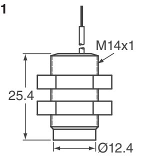

VRS Sensors

Fig.	Dim. (mm) A	Dim. (mm) B	Output Voltage	Coil Resistance (Ω)	Inductance (mH)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
1	31.75	20.62	55	330	75	480-2782-ND	82.00	67.93	65.00	.3025
	100	88.9	55	330	75	480-2783-ND	118.29	100.16	96.26	.3025A35
	99.1	88	20	45 ~ 65	15	480-3259-ND	107.05	90.64	87.11	3015A35
	55.1	44	55	275 ~ 330	75	480-3262-ND	100.21	84.86	81.55	3025A17
2	63	—	20	45 ~ 65	15	480-3261-ND	133.82	113.32	108.91	3015SS25
	34.93	—	55	390	75	480-2784-ND	88.72	73.50	70.33	.3025SS13
3	57.99	29.87	40	200	85	480-2787-ND	91.41	75.72	72.46	.3039AN
	57.99	29.87	34	85	25	480-2785-ND	91.41	75.73	72.46	.3009AN
	57.99	29.87	170	1200	450	480-2786-ND	86.83	73.52	70.66	.3029AN
	57.99	29.87	190	1200	450	480-2776-ND	77.97	64.59	61.80	3030AN
	91.62	63.5	190	1200	450	480-2777-ND	96.89	82.05	78.85	.3030AN25
	104.32	76.20	190	1200	450	480-2778-ND	111.99	94.83	91.14	.3030AN30
	129.72	101.6	190	1200	450	480-2779-ND	149.74	126.80	121.86	.3030AN40
	155.12	127	190	1200	450	480-2780-ND	167.58	144.39	137.51	.3030AN50
4	64.29	36.5	190	1200	450	480-2775-ND	86.83	73.52	70.66	.3030A
	64.29	36.5	80	85	25	480-2788-ND	101.93	86.31	82.95	.3044A
	64.29	36.5	300	1200	450	480-2789-ND	101.93	86.31	82.95	.3045A
	64.29	36.5	65	200	85	480-2790-ND	101.93	86.31	82.95	.3046A
5	25.4	17.45	12	190	16	480-2791-ND	136.99	116.00	111.48	.3050
	39.67	31.75	12	190	16	480-2792-ND	155.90	132.01	126.87	.3050A13
	58.72	50.8	12	190	16	480-2793-ND	203.23	175.11	166.77	.3050A20
6	25.4	—	12	190	16	480-2794-ND	127.24	107.74	103.55	.3050S10
	12.7	—	8	155	14	480-2795-ND	200.86	173.07	164.82	.3080
	50.8	—	190	1200	450	480-2781-ND	86.03	71.27	68.19	.3030S20
	30	—	20	45 ~ 65	15	480-3260-ND	74.21	61.48	58.82	3015S13
	30	—	55	275 ~ 330	75	480-3263-ND	74.21	61.48	58.82	3025S13
	50	—	40	45 ~ 85	25	480-3258-ND	87.37	72.38	69.26	3010S20
	50	—	70	120 ~ 162	85	480-3268-ND	87.37	72.38	69.26	3040S20
	76	—	190	910 ~ 1200	450	480-3264-ND	94.52	80.04	76.92	3030S30
7	79.38	47.63	60	280	115	480-2796-ND	255.52	220.16	209.68	.3070A
	120.65	88.9	60	280	115	480-2797-ND	307.82	265.22	252.59	.3070A35
	79.38	47.63	60	280	115	480-2798-ND	216.30	186.37	177.50	.3090A
	120.65	88.9	60	280	115	480-2799-ND	248.39	214.02	203.83	.3090A35
8	57.73	29.97	175	1200	450	480-2800-ND	122.06	103.36	99.33	.MA230SAN
	103.96	76.2	175	1200	450	480-2801-ND	169.95	146.43	139.46	.MA233SAN
	57.73	29.97	60	200	85	480-2802-ND	122.06	103.36	99.33	.MA240SAN
	103.96	76.2	60	200	85	480-2803-ND	169.95	146.43	139.46	.MA243SAN
	103.96	76.2	60	200	85	480-2804-ND	222.24	191.49	182.37	.MA243HT
9	—	—	5.2	20 ~ 45	1.5 ~ 4.5	480-3271-ND	187.78	161.80	154.09	MA3055
	—	—	5.2	20 ~ 45	1.5 ~ 4.5	480-3272-ND	217.94	187.78	178.84	MA3055S10
10	91.1	63	40	45 ~ 85	25	480-3257-ND	87.69	74.25	71.36	3010AN25
	91.1	63	70	120 ~ 162	85	480-3265-ND	92.24	78.11	75.07	3040A25
	91.1	63	70	120 ~ 162	85	480-3266-ND	87.69	74.25	71.36	3040AN25
	104.1	76	70	120 ~ 162	85	480-3267-ND	101.35	85.82	82.48	3040AN30

Hall Effect Speed Sensors

Fig.	Supply Current (mA)	Output	Frequency (kHz)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
11	25	Square Wave	15	480-2810-ND◆	73.82	61.15	58.51	SNDJ-H3C-G01
	25	Square Wave	15	480-2812-ND◆	83.39	69.08	66.10	SNDJ-H3C-G02
12	25	Square Wave	15	480-2811-ND◆	81.13	67.21	64.31	SNDJ-H3L-G01
	25	Square Wave	15	480-2813-ND◆	88.22	73.08	69.93	SNDJ-H3L-G02
13	32	Square Wave	25	480-2821-ND◆	91.90	77.82	74.79	SNDJ-D3C-G01
14	32	Square Wave	25	480-2822-ND◆	91.90	77.82	74.79	SNDJ-D3P-G01
15	32	Square Wave	15	480-2823-ND◆	160.03	135.51	130.23	SNDJ-T4C-G01

Fig.	Supply Current (mA)	Output Sinking (mA)	Dimensions (mm) A	Dimensions (mm) B	Rise/Fall Time (µs)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
8	24	80	76.2	47.63	1 / 1	480-2805-ND	205.97	177.47	169.02	.58426HV
	24	80	76.2	47.63	1 / 1	480-2806-ND	205.97	177.47	169.02	.58426LV
16	20	20	20	—	4 / 4	480-2807-ND	97.07	82.20	79.00	.LCZ260
	20	20	20	—	4 / 4	480-2808-ND	97.07	82.20	79.00	.LCZ460
17	6	30	—	—	.07 / .07	480-2809-ND	61.45	50.91	48.71	.ZH10
18	40	15	40	—	30 / 5	480-2814-ND◆	50.77	40.39	37.84	GTN1A111
	40	15	53	—	30 / 5	480-2815-ND◆	46.33	38.39	36.73	GTN1A112
	40	15	77.5	—	30 / 5	480-2816-ND◆	47.64	39.47	37.77	GTN1A113
	40	15	83.5	—	30 / 5	480-2817-ND◆	48.28	40.00	38.28	GTN1A114
	40	15	95	—	30 / 5	480-2818-ND◆	48.94	40.55	38.80	GTN1A115
	40	15	100	—	30 / 5	480-2819-ND◆	48.94	40.55	38.80	GTN1A116
	40	15	140	—	30 / 5	480-2820-ND◆	48.35	38.47	36.04	GTN1A211
19	20	40	—	—	15 / 1	480-2824-5-ND	20.72	16.49	15.45	1GP4001
	20	40	—	—	2 / 1	480-2825-5-ND	20.72	16.49	15.45	1GP4004
	20	40	—	—	15 / 1	480-2826-5-ND	18.24	13.97	13.19	1GP7001
	20	40	—	—	15 / 1	480-2827-5-ND	20.72	16.49	15.45	1GP5005
	21	—	—	—	27 / 1	480-2829-5-ND	20.72	16.49	15.45	1GQ8001
20	20	10	—	—	18 / 1	480-2828-5-ND	23.91	19.02	17.82	3GC401
21	18	10	—	—	0.2 /0.1	480-3256-ND◆	20.21	15.47	14.61	SR3FA1

◆ ***RoHS Compliant***

Tachometers and Converter

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
Din-Rail Mount Tachometer with Relay, RS-232 0/4 ~ 20mA Output	480-2831-ND◆	289.35	249.31	237.44	SNDJ-CNT-G01
Din-Rail Mount Tachometer with Relay, RS-232 0/2 ~ 10V Output	480-2832-ND◆	289.35	249.31	237.44	SNDJ-CNT-G02
Din-Rail Mount Tachometer with Relay, RS-232 0/4 ~ 20mA Output, with Display	480-2833-ND◆	425.03	372.25	359.20	SNDJ-CNT-G03
Din-Rail Mount Tachometer with Relay, RS-232 0/2 ~ 10V Output, with Display	480-2834-ND◆	425.03	372.25	359.20	SNDJ-CNT-G04
Frequency to DC Converter	480-2830-ND	313.76	270.34	257.47	.FDC
USB Programming Cable	480-2835-ND◆	67.84	56.20	53.78	SNDJ-CBL-G01
Accessories					
8/32 Threaded Actuator Magnet	480-3247-ND◆	6.65	4.87	4.56	102MG11BP
1/4-20 Thread Rare Earth Magnet	480-3248-ND◆	9.74	7.13	6.67	106MG10BP

◆ ***RoHS Compliant***

Panasonic Hall Effect Sensor ICs

Panasonic's Hall IC is a combination of a Hall element, amplifier, Schmidt circuit, and stabilized power supply/temperature compensator integrated on an identical chip by using the IC technology. It amplifies Hall element output at the amplifier, converts into a digital signal through the Schmidt circuit, and drives the TTL or MOS IC directly. **Features:** • Stable temperature characteristics due to the additional temperature compensator • TTL and MOS ICs directly driveable by output • Semi-permanent service life due to no contact parts • Small change of the operating flux density against mechanical stress • Open Collector Output • Operating Temperature: -40°C ~ 100°C • Supply Current Maximum: 6mA • Output Circuit Maximum: 20mA **Applications:** • Speed Sensors • Position Sensors • Rotation Sensors • Keyboard Switches • Microswitches

Fig. 1

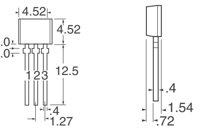

1: Vcc
2: Gnd
3: Output

Fig. 2

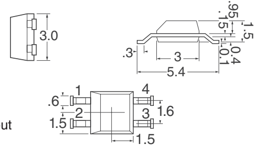

1: Vcc
2: Gnd
3: Output
4: Gnd

Fig.	Supply Voltage Range (V)	Operating** Flux Density (Gauss) (L-H)	Operating** Flux Density (Gauss) (H-L)	Output* Type	Operating† Type	Pkg.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	4.5 ~ 16	-175	175	0C	Bidirectional	3-Sip	DN6849SE-ND◆	1.51	1.22	.91
2	4.5 ~ 16	-175	175	0C	Bidirectional	SOH-4D	DN6849S-ND	1.69	1.36	1.02

* Output Type: *OC* = Open Collector. ** To convert Gauss to millitesla, divide by 10
† *Unidirectional* is only sensitive to either north or southside of magnetic; *Bidirectional* is sensitive to an alternating magnetic fields of both north and south sides. ◆ ***RoHS Compliant***

Infrared Photosensors

Fig. 1
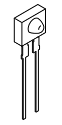

Fig. 2
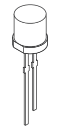

Fig. 3
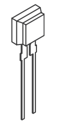

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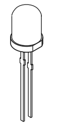

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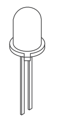

Fig. 6
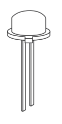

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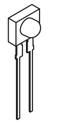

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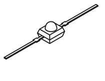

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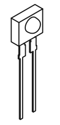

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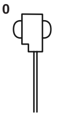

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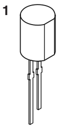

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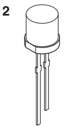

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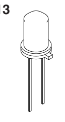

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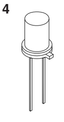

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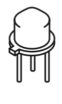

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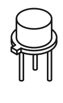

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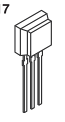

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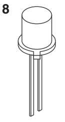

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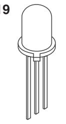

Fig. 20
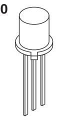

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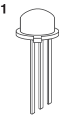

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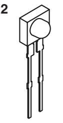

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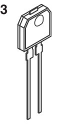

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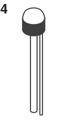

Infrared Light Emitting Diode

Fig.	Style/ Package	Pulse Forward Current (A)	Optical Power Output	Peak Emission Wave-length	Beam Angle	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Panasonic Part No.
1	Side View	1	4.6mW	950nm	17°	LN54PA-ND◆	1.00	8.37	66.96	LN54
2	Top View	0.2	2.5mW	680nm	30°	LNA4501FV-ND◆	1.28	10.26	76.92	LNA4501FV
2	Top View	1.5	7mW	950nm	45°	LN64PA-ND◆	.91	7.56	60.48	LN64
3	Side View	2	12mW	900nm	115°	LN175PA-ND◆	1.81	14.47	108.54	LN175
3	Side View	1.5	3-6mW	940nm	80°	LNA2603F-ND◆	1.27	10.12	75.90	LNA2603F
4	T-1	1	3.5mW/sr	940nm	15°	LN69-ND◆	.46	3.46	25.96	LN69
4	T-1	1	6mW/sr	940nm	15°	LNA2801L-ND◆	.67	5.03	37.73	LNA2801L
4	T-1	1	2.5-5mW	950nm	20°	LNA2802L-ND◆	.45	3.61	27.08	LNA2802L
4	T-1 3/4	1	10mW	860nm	20°	LN77L-ND◆	1.15	8.65	53.85	LN77L
4	T-1 3/4	1	12mW/sr	860nm	22°	LNA4801L-ND◆	1.28	10.26	76.92	LNA4801L
4	T-1 3/4	1.5	9mW/sr	950nm	20°	LNA2902L-ND◆	.46	3.46	25.96	LNA2902L
4	T-1 3/4	1.5	9mW/sr	950nm	25°	LNA2903L-ND◆	.45	3.61	27.08	LNA2903L
4	T-1 3/4	1.5	13.0mW/sr	950nm	15°	P14233-ND◆	.51	3.85	28.85	LN66F
4	T-1 3/4	1	15mW	880nm	15°	P14231-ND◆	1.27	10.58	84.62	LNA4905L
5	TO-18	2	3-6mW	950nm	8°	LN51L-ND◆	3.63	29.02	225.70	LN51L
5	TO-18	1	10mW	860nm	6°	P14230-ND◆	2.60	20.77	161.54	LNA4401L
6	TO-18 Small	0.2	1.5mW	680nm	80°	LNA4402L-ND◆	1.60	12.82	96.15	LNA4402L
6	TO-18 Small	1.5	5-10mW	950nm	90°	LN152-ND◆	2.13	17.74	141.91	LN152
6	TO-18 Small	2	3.5-6mW	950nm	100°	LN52-ND◆	3.05	24.38	189.59	LN52
7	Side View	1	1.8-3.5mW	950nm	35°	LN55-ND◆	.78	6.53	52.26	LN55
7	Side View	1.5	4.3-5.5mW	950nm	35°	LN65-ND◆	1.29	10.34	77.52	LN65
8	Axial	1	3-4.5mW	950nm	18°	LNA2W01L-ND◆	1.35	11.29	90.28	LNA2W01L
9	Side View	1	6mW	880nm	25°	LN75X-ND◆	1.28	10.26	76.92	LN75X
9	Side View	1	6-10mW	880nm	40°	LN78-ND◆	4.97	39.77	309.30	LN78
9	Side View	1	1.8-3.5mW	950nm	35°	LN58-ND◆	.97	8.06	64.49	LN58
10	Side View x2	1	1.2mW/sr	940nm	23°	LNA2701L-ND	1.32	10.96	87.70	LNA2701L
10	Side View x2	1	1.8mW	950nm	23°	LN59-ND	1.10	9.13	73.01	LN59
24	Ceramic Base	1	3.5mW	950nm	80°	P14232-ND◆	1.73	13.85	103.85	LN162S

◆ ***RoHS Compliant***

NPN Photo Transistor

Fig.	Style/ Package	V_{CEO} (V)	Ic (mA)	Peak Sensitivity Wave-length	tr/tf (µs)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Panasonic Part No.
1	Side View	20	20	800nm	4	PNZ154-ND◆	1.39	11.61	92.88	PNZ154
4	T-1	30	20	800nm	4	PNA1801LS-ND◆	.56	4.23	31.73	PNA1801LS
4	T-1	30	20	850nm	4	PNA1801L00NC-ND◆	.56	4.23	31.73	PNA1801L00NC

Fig.	Style/ Package	V_{CEO} (V)	Ic (mA)	Peak Sensitivity Wave-length	tr/tf (µs)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Panasonic Part No.
4	T-1	30	20	850nm	4	PNA1801LS0NC-ND◆	.56	4.23	31.73	PNA1801LS0NC
5	TO-18	30	50	800nm	3	PNA1401L-ND◆	3.56	28.46	221.32	PNA1401L
5	TO-18	20	30	900nm	5/6	PNZ107-ND◆	2.24	17.95	134.62	PNZ107
7	Side View	20	30	850nm	100	PNA2602M-ND◆‡	1.14	9.49	75.88	PNA2602M
7	Side View	20	20	800nm	4-10	PNZ150-ND	1.06	8.85	70.82	PNZ150
8	Axial	20	30	800nm	200	PNA2W01M-ND‡◆	1.76	14.64	117.10	PNA2W01M
8	Axial	20	20	800nm	2.5/3.5	PNZ12700S-ND◆	1.20	9.99	79.92	PNZ12700S
8	Axial	20	20	800nm	3-10	PNZ14700R-ND◆	.96	8.01	64.10	PNZ14700R
8	Axial	20	20	800nm	3-10	PNZ14700S-ND◆	.96	8.01	64.10	PNZ14700S
8	Axial	20	20	800nm	3-10	PNZ147-ND◆	1.58	12.65	94.85	PNZ147
9	Side View	20	3	800nm	100	PNA2603L-ND‡	1.14	9.49	75.88	PNA2603L
17	Side View	20	10	900nm	8	PNA1605F-ND◆	1.51	12.10	90.72	PNA1605F
18	TO-18 Flat	30	50	800nm	3	PNA1401LF-ND◆	3.56	28.46	221.32	PNA1401LF
19	TO-18	40†	50	800nm	3	PNZ102-ND◆	3.56	28.46	221.32	PNZ102
19	TO-18	30†	30	900nm	5/6	PNZ108-ND◆	3.56	28.46	221.32	PNZ108
19	TO-18	30†	30	900nm	5/6	PNZ109L-ND	3.56	28.46	221.32	PNZ109L
20	TO-18 Flat	30†	30	900nm	8/9	PNZ109F-ND◆	3.56	28.46	221.32	PNZ109F
21	TO-18 Small	30†	20	900nm	5/6	PNZ108CL-ND◆	2.99	23.90	185.91	PNZ108CL
21	TO-18 Small	20	20	900nm	5/6	PNZ108CLR-ND◆	1.60	12.82	96.15	PNZ108CLR
21	TO-18 Small	20	20	900nm	5/6	PNZ108CLS-ND◆	1.60	12.82	96.15	PNZ108CLS
21	TO-18 Small	30†	20	900nm	5/6	PNZ109CL-ND◆	2.99	23.90	185.91	PNZ109CL
22	Side View	20	20	800nm	4	PNA1608L-ND	1.06	8.85	70.82	PNA1608L
23	Side View	20	20	850nm	4	PNA1601M-ND	.81	6.76	54.05	PNA1601M
24	T-1	20	10	800nm	1/1.3	PNZ121S0R-ND◆	1.20	10.03	80.27	PNZ121S0R

◆ ***RoHS Compliant*** † V_{CBO} *(This device has signal mixing capability using the base pin.)* ‡ Darlington

Pin Photo Diode

Fig.	Style/ Package	VR (V)	Peak Sensitivity Wavelength	tr/tf (ns)	Beam Angle	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Panasonic Part No.
3	Side View	30	850nm	2	70°	PNZ335-ND◆	1.26	10.12	75.88	PNZ335
6	TO-18 Small	30	850nm	2	70°	PNZ330CL-ND◆	2.99	23.90	185.91	PNZ330CL
11	Side View	30	900nm	50	70°	PNZ323-ND◆	1.38	11.54	92.31	PNZ323
11	Side View	30	960nm	50	70°	PNZ323B-ND◆	.91	7.56	60.48	PNZ323B
12	Top View	50	850nm	2	70°	PNZ334-ND◆	1.46	12.15	97.20	PNZ334
13	TO-18	50	800nm	1	10°	PNZ300-ND	6.14	49.10	414.27	PNZ300
14	TO-18	50	800nm	1	40°	PNZ300F-ND◆	6.14	49.10	414.27	PNZ300F
15	TO-18	30	900nm	2	70°	PNZ331CL-ND	3.66	29.31	227.95	PNZ331CL
16	TO-18	30	900nm	—	40°	PNZ331F-ND	7.11	56.85	479.68	PNZ331F

◆ ***RoHS Compliant***

IrDA Transceiver Modules

VCC Maximum (V)	IrDA Maximum (kbps)	Pin Count	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
3.3	115.2	7-Pin + 1 Shield	CND0204ACT-ND	1.60	1.29	.97	CND0204ATR-ND	2,500	820.00/M	CND0204A
4.5	115.2	7-Pin + 1 Shield	CND0215ACT-ND	1.60	1.29	.97	CND0215ATR-ND	2,500	820.00/M	CND0215A
3.3	115.2	7-Pin + 2 Shield	CND0214ACT-ND	1.60	1.29	.97	CND0214ATR-ND	2,000	833.00/M	CND0214A
4.5	115.2	7-Pin + 2 Shield	CND0216ACT-ND	1.60	1.29	.97	CND0216ATR-ND	2,000	833.00/M	CND0216A

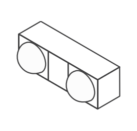

N

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Reflective Photosensors

Reflective Photosensors consist of a high efficiency GaAs infrared light emitting diode which is integrated with a high sensitivity phototransistor in a single resin package.

Fig.	Rank	IC (µA)	Typ. ton/toff (µsec.)	Input VR (V)	Input IF (mA)	Output IC (mA)	Output VCEO (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
1	L	23 ~ 90	30/40	6	50	20	35	CNB10010LLCT-ND	.97	.74	.55	.35	CNB10010LLTR-ND	1,000	324.00	CNB10010LL
	R	41 ~ 90	30/40	6	50	20	35	CNB10010RLCT-ND	.99	.83	.66	.46	CNB10010RLTR-ND	1,000	437.00	CNB10010RL
	W	23 ~ 160	30/40	6	50	20	35	CNB10010WLCT-ND	.92	.70	.52	.33	CNB10010WLTR-ND	1,000	307.00	CNB10010WL
	H	41 ~ 160	30/40	6	50	20	35	CNB10010HLCT-ND	.97	.74	.55	.35	CNB10010HLTR-ND	1,000	324.00	CNB10010HL
	R	41 ~ 90	30/40	6	50	20	35	CNB10020RLCT-ND	.77	.65	.52	.36	CNB10020RLTR-ND	1,000	341.00	CNB10020RL
	—	50 ~ 243	40/50	6	30	20	35	CNB10112CT-ND	.77	.65	.52	.36	CNB10112TR-ND	3,000	333.00/M	CNB10112
2	R	180 ~ 440	20/20	3	50	20	30	CNB13020R-ND	.95	.72	.54	.34	—	—	—	CNB13020R
3	—	460 ~ 12,000	150/150	3	50	30	20	CNB2301-ND	.77	.65	.52	.36	—	—	—	CNB2301
	R	1,300 ~ 4,950	150/150	3	50	30	20	CNB23010R-ND	.81	.68	.54	.38	—	—	—	CNB23010R
	S	360 ~ 880	20/20	3	50	20	30	CNB13020S-ND	.77	.58	.44	.27	—	—	—	CNB13020S
4	R	1,300 ~ 4,950	150/150	3	50	30	20	CNB23010R0LF-ND	.85	.71	.57	.40	—	—	—	CNB23010R0LF
	R	180 ~ 440	20/20	3	50	20	30	CNB13020R0LF-ND	.82	.62	.47	.29	—	—	—	CNB13020R0LF
	S	360 ~ 880	20/20	3	50	20	30	CNB13020S0LF-ND	.82	.62	.47	.29	—	—	—	CNB13020S0LF
5	—	800 ~ 5,200	20/20	3	50	20	30	CNB1301-ND	1.28	1.03	.77	.70	—	—	—	CNB1301
6	—	100 ~ 1,500	6/6	3	50	20	30	CNB1304H-ND	2.28	1.83	1.37	1.23	—	—	—	CNB1304H
7	—	100 ~ 1,200	6/6	3	50	20	30	CNZ2153-ND	2.88	2.31	1.80	1.67	—	—	—	CNZ2153

Fig. 1

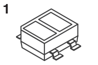

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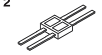

Fig. 3

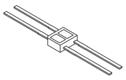

Fig. 4

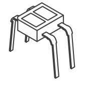

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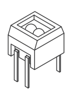

Fig. 6

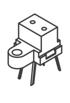

Fig. 7

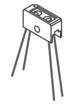

Bipolar Integrated Circuit with Photodetection Function

PNA46xxM Series: • Designed for infrared remote control • Extension distance is 8M or more • External parts are not required • Lens resin filters visible light for better performance • Available with shielding brackets for increased range • 5V operation voltage **PNA47xxM Series:** • Designed for infrared remote control • Extension distance is 7M or more • External parts are not required • Lens resin filters visible light for better performance • Available with shielding brackets for increased range • 3.3V operation voltage

Fig. 1

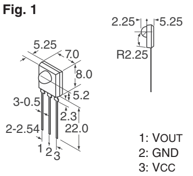

Fig. 2

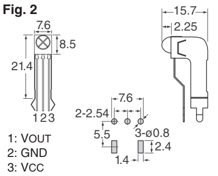

Fig. 3

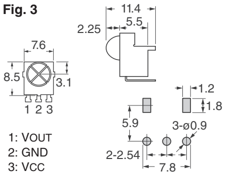

Fig. 4

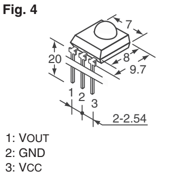

Fig. 5

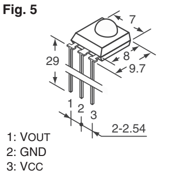

Fig. 6

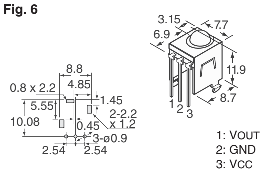

Fig. 7

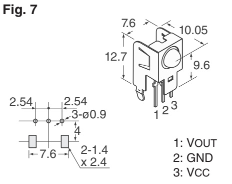

Fig. 8

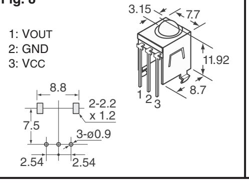

Fig. 9

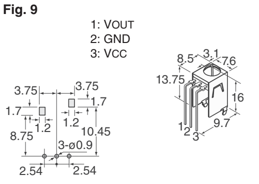

Fig. 10

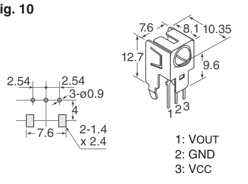

Fig. 11

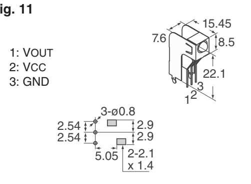

Fig.	Operating Supply Voltage Typical (V)	Current Consumption Typical (mA)	Maximum Recep. Distance (m) Minimum	Maximum Recep. Distance (m) Typical	Carrier Frequency Typical (kHz)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	5.0	2.4	8.0	10.0	36.7	PNA4601M-ND◆	1.27	1.06	.85	PNA4601M
	5.0	2.4	8.0	10.0	38.0	PNA4602M-ND◆	1.28	1.03	.77	PNA4602M
	5.0	2.4	8.0	10.0	38.0	PNA4612M-ND◆	1.27	1.06	.85	PNA4612M
	3.3	0.8	7.0	—	36.7	PNA4701M-ND◆	1.47	1.18	.89	PNA4701M
2	5.0	2.4	11.0	18.0	36.7	PNA4611M00YB-ND	1.43	1.15	.86	PNA4611M00YB
	5.0	2.4	11.0	18.0	38.0	PNA4612M00YB-ND◆	1.43	1.15	.86	PNA4612M00YB
	5.0	2.4	11.0	18.0	56.9	PNA4614M00YB-ND◆	1.43	1.15	.86	PNA4614M00YB
3	5.0	2.4	11.0	18.0	36.7	PNA4611M00XD-ND◆	1.43	1.15	.86	PNA4611M00XD
	5.0	2.4	11.0	18.0	38.0	PNA4612M00XD-ND◆	1.43	1.15	.86	PNA4612M00XD
4	5.0	2.4	8.0	10.0	36.7	PNA4601M00LB-ND◆	1.46	1.22	.98	PNA4601M00LB
	3.3	0.8	7.0	—	36.7	PNA4701M00LB-ND◆	1.46	1.22	.98	PNA4701M00LB
5	5.0	2.4	8.0	10.0	36.7	PNA4601M00LC-ND◆	1.46	1.22	.98	PNA4601M00LC
6	5.0	2.4	11.0	18.0	38.0	PNA4612M00HB-ND◆	1.46	1.22	.98	PNA4612M00HB
	3.3	0.8	9.0	—	36.7	PNA4701M00HB-ND◆	1.46	1.22	.98	PNA4701M00HB
7	5.0	2.4	11.0	18.0	36.7	PNA4611M00HC-ND◆	1.46	1.22	.98	PNA4611M00HC
8	5.0	2.4	11.0	18.0	36.7	PNA4611M00HD-ND◆	1.46	1.22	.98	PNA4611M00HD
9	5.0	2.4	11.0	18.0	36.7	PNA4611M00XB-ND◆	1.46	1.22	.98	PNA4611M00XB
	5.0	2.4	11.0	18.0	38.0	PNA4612M00XB-ND◆	1.46	1.22	.98	PNA4612M00XB
10	5.0	2.4	11.0	18.0	36.7	PNA4611M00YA-ND◆	1.46	1.22	.98	PNA4611M00YA
	5.0	2.4	11.0	18.0	38.0	PNA4612M00YA-ND◆	1.46	1.22	.98	PNA4612M00YA
11	5.0	1.9	11.0	25.0	56.9	PNA4658M00YE-ND◆	1.38	1.11	.83	PNA4658M00YE

◆ RoHS Compliant

Ambient Light Sensor Bipolar Integrated Circuit with Photo Diode

PNA4603H Series:

• For brightness control systems • Wavelength characteristics close to human visual sensitivity • External parts not required • Good output voltage linearity with respect to incident illuminance

Fig. 1

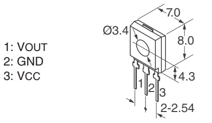

Fig. 2

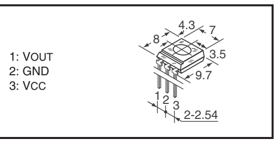

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
1	See PNA4603H Main Characteristics Chart	PNA4603H-ND	3.16	2.54	1.97
2	See PNA4603H Main Characteristics Chart; Right Angle	PNA4603H00LB-ND	2.24	1.80	1.35

PNA4603H Series Main Characteristics

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Supply Voltage	VCC	—	4.5	5.0	5.5	V
Current Consumption	ICC	VCC = 5.25V	0.5	1.0	1.5	mA
Output Voltage	VOFF	L = 0 lx, VCC = 5.0V	0.1	0.5	0.8	V
	V01	L = 10 lx, VCC = 5.0V§	2.0	2.7	3.4	V
	V02	L = 800 lx, VCC = 5.0V§	3.9	4.1	4.9	V
	η	V01-VOFF, VCC = 5.0V	1.65	1.9	3.3	V
Output Impedance	Z	—	5.0	10	15.0	kΩ
Peak Sensitivity Wavelength	λρ	—	400	600	700	nm

§ Halogen lamp light source

Panasonic

PIR Motion Sensors

RoHS COMPLIANT

Panasonic Electric Works

MP motion sensors are passive infrared sensors which detect changes in infrared rays when there is movement from a person or object. Intended as human body and animal detection with the world's smallest built-in amplifier design and small size. Perfect for connecting directly into a microprocessor.

Sensor Types: • Standard Detection for most general purpose movement detection • Slight Detection for movements as low as 7.8" • Spot Detection for detecting movements in a much smaller area or focused spot. • 10 Meter Detection for long distance, wide area movement detection **Output Types:** • Digital for automated On-Off controls, energy saving for vending machines, ATMs, video games and theme parks • Analog for fine motion detection, slight movements and small detection • Lens color does not affect sensor operation

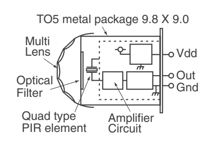

Fig. 1

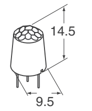

64 Zones

Fig. 2

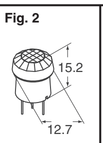

104 Zones

Fig. 3

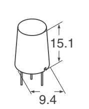

24 Zones

Fig. 4

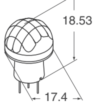

80 Zones

Fig.	Sensor Type	Detection Distance (Max.)	Output Type	Lens Color	Digi-Key Part No.	Price Each 1	Price Each 25	Panasonic Part No.
1	Standard Detection	16.4 ft.	Digital - 5V	Black	255-1849-ND	34.69	31.86	AMN11111
		16.4 ft.	Digital - 5V	White	255-1812-ND	34.69	31.86	AMN11112
		16.4 ft.	Analog	Black	255-1815-ND	34.69	31.86	AMN21111
		16.4 ft.	Analog	White	255-1805-ND	34.69	31.86	AMN21112

Fig.	Sensor Type	Detection Distance (Max.)	Output Type	Lens Color	Digi-Key Part No.	Price Each 1	Price Each 25	Panasonic Part No.
1	Standard Detection	16.4 ft.	Digital - ST Type	Black	255-2643-ND ***NEW!***	22.79	20.93	AMN31111
		16.4 ft.	Digital - ST Type	White	255-2644-ND ***NEW!***	22.79	20.93	AMN31112
		16.4 ft.	Digital - 3V Low Power	Black	255-1808-ND	35.38	32.49	AMN41121
		16.4 ft.	Digital - 3V Low Power	White	255-2651-ND ***NEW!***	35.38	32.49	AMN41122
2	Slight Detection	6.56 ft.	Digital - 5V	Black	255-2900-ND ***NEW!***	34.69	31.86	AMN12111
		6.56 ft.	Digital - 5V	White	255-1813-ND	34.69	31.86	AMN12112
		6.56 ft.	Digital - 3V Low Power	Black	255-1809-ND	35.38	32.49	AMN42121
		6.56 ft.	Analog	Black	255-1816-ND	34.69	31.86	AMN22111
		6.56 ft.	Analog	White	255-1806-ND	34.69	31.86	AMN22112
		6.56 ft.	Digital - ST Type	Black	255-2645-ND ***NEW!***	22.79	20.93	AMN32111
		6.56 ft.	Digital - ST Type	White	255-2646-ND ***NEW!***	22.79	20.93	AMN32112
		6.56 ft.	Digital - 3V Low Power	White	255-2652-ND ***NEW!***	35.38	32.49	AMN42122
3	Spot Detection	16.4 ft.	Digital - 5V	Black	255-1850-ND	34.69	31.86	AMN13111
		16.4 ft.	Digital - 5V	White	255-1814-ND	34.69	31.86	AMN13112
		16.4 ft.	Digital - 3V Low Power	Black	255-1810-ND	35.38	32.49	AMN43121
		16.4 ft.	Analog	Black	255-1804-ND	35.38	32.49	AMN23111
		16.4 ft.	Analog	White	255-1807-ND	34.69	31.86	AMN23112
		16.4 ft.	Digital - ST Type	Black	255-2647-ND ***NEW!***	22.79	20.93	AMN33111
		16.4 ft.	Digital - ST Type	White	255-2648-ND ***NEW!***	22.79	20.93	AMN33112
		16.4 ft.	Digital - 3V Low Power	White	255-2653-ND ***NEW!***	35.38	32.49	AMN43122
4	10 meter Detection	32.8 ft.	Digital - 5V	Black	255-2901-ND ***NEW!***	36.63	33.64	AMN14111
		32.8 ft.	Digital - 5V	White	255-1803-ND	36.63	33.64	AMN14112
		32.8 ft.	Digital - 3V Low Power	Black	255-1811-ND	38.64	35.49	AMN44121
		32.8 ft.	Digital - 3V Low Power	White	255-2899-ND ***NEW!***	38.64	35.49	AMN44122
		32.8 ft.	Analog	Black	255-1817-ND	36.63	33.64	AMN24111
		32.8 ft.	Analog	White	255-1818-ND	36.63	33.64	AMN24112
		32.8 ft.	Digital - ST Type	Black	255-2649-ND ***NEW!***	24.30	22.32	AMN34111
		32.8 ft.	Digital - ST Type	White	255-2650-ND ***NEW!***	24.30	22.32	AMN34112

Honeywell
Sensing and Control

SenSym ICT

Solid State Pressure Sensors

For use in medical equipment, pneumatic controls, computer peripherals and pressure instrumentation, process and flow control.

Fig. 1 — Sensor AMP

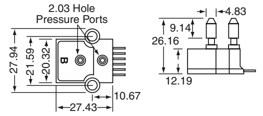

Fig. 2 — SDX/SX A4/D4/IND4

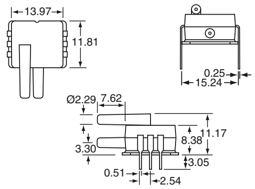

Fig. 3 — SDX/SX A2/G2/D2

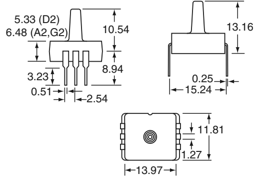

Fig. 4 — Pigtail

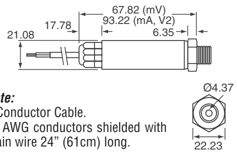

Note:
4-Conductor Cable.
24 AWG conductors shielded with drain wire 24" (61cm) long.

Fig. 5 — Button Sensor

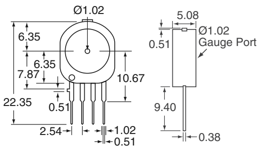

Fig. 6 — HSC *NEW!*

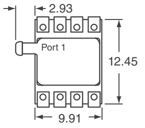

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time†	Operating Temperature	Digi-Key Part No.	Price Each				Honeywell Part No.
									1	10	25	50	
1	0-1 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1002-ND◆	81.12	67.20	64.30	61.80	ASCX01DN
	0-5 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1003-ND◆	81.12	67.20	64.30	61.80	ASCX05DN
	0-15 PSIA	Absolute	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1008-ND◆	81.12	67.20	64.30	61.80	ASCX15AN
	0-15 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1009-ND◆	81.12	67.20	64.30	61.80	ASCX15DN
	0-30 PSIA	Absolute	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1010-ND◆	81.12	67.20	64.30	61.80	ASCX30AN
	0-30 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1011-ND◆	81.12	67.20	64.30	61.80	ASCX30DN
	0-100 PSIA	Absolute	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1004-ND◆	81.12	67.20	64.30	61.80	ASCX100AN
	0-100 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1005-ND◆	81.12	67.20	64.30	61.80	ASCX100DN
	0-150 PSIA	Absolute	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1006-ND◆	81.12	67.20	64.30	61.80	ASCX150AN
	0-150 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1007-ND◆	81.12	67.20	64.30	61.80	ASCX150DN
	0-1 PSID	Differential/Gage	0 ~ 18mV	SIP	20	100µSec	-40°C ~ 85°C	287-1017-ND◆	79.80	66.11	63.26	60.79	SCX01DN
	0-5 PSID	Differential/Gage	0 ~ 60mV	SIP	20	100µSec	-40°C ~ 85°C	287-1018-ND◆	79.80	66.11	63.26	60.79	SCX05DN
	0-15 PSIA	Absolute	0 ~ 90mV	SIP	20	100µSec	-40°C ~ 85°C	287-1023-ND◆	79.80	66.11	63.26	60.79	SCX15AN
	0-15 PSID	Differential/Gage	0 ~ 90mV	SIP	20	100µSec	-40°C ~ 85°C	287-1024-ND◆	79.80	66.11	63.26	60.79	SCX15DN
	0-30 PSIA	Absolute	0 ~ 90mV	SIP	20	100µSec	-40°C ~ 85°C	287-1025-ND◆	79.80	66.11	63.26	60.79	SCX30AN
	0-30 PSID	Differential/Gage	0 ~ 90mV	SIP	20	100µSec	-40°C ~ 85°C	287-1026-ND◆	79.80	66.11	63.26	60.79	SCX30DN
	0-100 PSIA	Absolute	0 ~ 100mV	SIP	20	100µSec	-40°C ~ 85°C	287-1019-ND◆	79.81	66.11	63.26	60.80	SCX100AN
	0-100 PSID	Differential/Gage	0 ~ 100mV	SIP	20	100µSec	-40°C ~ 85°C	287-1020-ND◆	79.80	66.11	63.26	60.79	SCX100DN
	0-150 PSIA	Absolute	0 ~ 90mV	SIP	20	100µSec	-40°C ~ 85°C	287-1021-ND	79.81	66.11	63.26	60.80	SCX150AN
	0-4" H2O	WC	Ratio	SIP	18	500µSec	0°C ~ 70°C	287-1027-ND◆	101.09	85.60	82.27	78.35	SCXL004DN
2	0-1 PSID	Differential/Gage	0 ~ 18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1028-ND◆	39.77	31.64	29.64	28.36	SDX01D4
	0-5 PSID	Differential/Gage	0 ~ 60mV	DIP	20	100µSec	-40°C ~ 85°C	287-1030-ND◆	39.77	31.64	29.64	28.36	SDX05D4
	0-15 PSIA	Absolute	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1037-ND◆	39.77	31.64	29.64	28.36	SDX15A4
	0-15 PSID	Differential/Gage	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1038-ND◆	39.77	31.64	29.64	28.36	SDX15D4
	0-30 PSIA	Absolute	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1041-ND◆	49.38	39.28	36.80	35.22	SDX30A4
	0-30 PSID	Differential/Gage	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1042-ND◆	39.77	31.64	29.64	28.36	SDX30D4
	0-100 PSIA	Absolute	0 ~ 100mV	DIP	20	100µSec	-40°C ~ 85°C	287-1033-ND◆	39.77	31.64	29.64	28.36	SDX100A4
	0-100 PSID	Differential/Gage	0 ~ 100mV	DIP	20	100µSec	-40°C ~ 85°C	287-1034-ND◆	39.77	31.64	29.64	28.36	SDX100D4
	0-5" H2O	WC	0 ~ 20mV	DIP	20	100µSec	-20°C ~ 85°C	287-1125-ND◆	76.09	63.03	60.31	57.97	SDX005IND4
	0-10" H2O	WC	0 ~ 20mV	DIP	20	100µSec	-20°C ~ 85°C	287-1126-ND◆	76.09	63.03	60.31	57.97	SDX010IND4
	0-1 PSID	Differential	0 ~ 20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1065-ND◆	31.62	25.15	23.57	22.55	SX01DD4
	0-5 PSID	Differential	0 ~ 75mV	DIP	12	100µSec	-40°C ~ 85°C	287-1068-ND◆	31.62	25.15	23.57	22.55	SX05DD4
	0-15 PSIA	Absolute	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1080-ND◆	31.62	25.15	23.57	22.55	SX15AD4
	0-15 PSID	Differential	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1082-ND	31.62	25.15	23.57	22.55	SX15DD4
	0-30 PSIA	Absolute	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1086-ND	31.62	25.15	23.57	22.55	SX30AD4
	0-30 PSID	Differential	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1088-ND	31.62	25.15	23.57	22.55	SX30DD4
	0-100 PSIA	Absolute	0 ~ 150mV	DIP	12	100µSec	-40°C ~ 85°C	287-1072-ND◆	31.62	25.15	23.57	22.55	SX100AD4
	0-100 PSID	Differential	0 ~ 150mV	DIP	12	100µSec	-40°C ~ 85°C	287-1074-ND◆	31.62	25.15	23.57	22.55	SX100DD4
3	0-1 PSIG	Gage	0 ~ 18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1029-ND◆	39.77	31.64	29.64	28.36	SDX01G2
	0-5 PSIG	Gage	0 ~ 60mV	DIP	20	100µSec	-40°C ~ 85°C	287-1031-ND◆	39.77	31.64	29.64	28.36	SDX05G2
	0-15 PSIA	Absolute	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1036-ND◆	39.77	31.64	29.64	28.36	SDX15A2
	0-15 PSIG	Gage	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1039-ND◆	39.77	31.64	29.64	28.36	SDX15G2
	0-30 PSIA	Absolute	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1040-ND◆	39.77	31.64	29.64	28.36	SDX30A2
	0-30 PSIG	Gage	0 ~ 90mV	DIP	20	100µSec	-40°C ~ 85°C	287-1043-ND◆	39.77	31.64	29.64	28.36	SDX30G2
	0-100 PSIA	Absolute	0 ~ 100mV	DIP	20	100µSec	-40°C ~ 85°C	287-1032-ND◆	39.77	31.64	29.64	28.36	SDX100A2
	0-100 PSIG	Gage	0 ~ 100mV	DIP	20	100µSec	-40°C ~ 85°C	287-1035-ND◆	39.77	31.64	29.64	28.36	SDX100G2
	0-1 PSIG	Gage	0 ~ 20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1066-ND◆	31.62	25.15	23.57	22.55	SX01GD2
	0-5 PSIG	Gage	0 ~ 75mV	DIP	12	100µSec	-40°C ~ 85°C	287-1069-ND◆	31.62	25.15	23.57	22.55	SX05GD2
	0-15 PSIA	Absolute	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1079-ND◆	31.62	25.15	23.57	22.55	SX15AD2
	0-15 PSIG	Gage	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1083-ND◆	31.62	25.15	23.57	22.55	SX15GD2
	0-30 PSIA	Absolute	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1085-ND◆	31.62	25.15	23.57	22.55	SX30AD2
	0-30 PSIG	Gage	0 ~ 110mV	DIP	12	100µSec	-40°C ~ 85°C	287-1089-ND	31.62	25.15	23.57	22.55	SX30GD2
	0-100 PSIA	Absolute	0 ~ 150mV	DIP	12	100µSec	-40°C ~ 85°C	287-1071-ND	31.62	25.15	23.57	22.55	SX100AD2
	0-100 PSIG	Gage	0 ~ 150mV	DIP	12	100µSec	-40°C ~ 85°C	287-1075-ND	31.62	25.15	23.57	22.55	SX100GD2
4	0-5 PSIG	Gage	1 ~ 5VDC	Steel 1/4" (6.35mm) 18NPT (Male)	12 ~ 30	5ms	-40°C ~ 125°C	287-1090-ND	260.28	224.26	213.58	206.09	SPT4V0005PG5W02
	0-15 PSIG	Gage	1 ~ 5VDC		12 ~ 30	5ms	-40°C ~ 125°C	287-1091-ND	260.28	224.26	213.58	206.09	SPT4V0015PG5W02
	0-30 PSIG	Gage	1 ~ 5VDC		12 ~ 30	5ms	-40°C ~ 125°C	287-1092-ND	260.28	224.26	213.58	206.09	SPT4V0030PG5W02
	0-100 PSIG	Gage	1 ~ 5VDC		12 ~ 30	5ms	-40°C ~ 125°C	287-1093-ND	260.28	224.26	213.58	206.09	SPT4V0100PG5W02
	0-500 PSIG	Gage	1 ~ 5VDC		12 ~ 30	5ms	-40°C ~ 125°C	287-1095-ND	260.28	224.26	213.58	206.09	SPT4V0500PG5W02
	0-5 PSIG	Gage	4 ~ 20mA		12.5 ~ 30	5ms	-40°C ~ 125°C	287-1096-ND◆	205.71	177.24	168.80	162.88	SPTMA0005PG5W02
	0-15 PSIG	Gage	4 ~ 20mA		12.5 ~ 30	5ms	-40°C ~ 125°C	287-1097-ND	205.71	177.24	168.80	162.88	SPTMA0015PG5W02
	0-30 PSIG	Gage	4 ~ 20mA		12.5 ~ 30	5ms	-40°C ~ 125°C	287-1098-ND	205.71	177.24	168.80	162.88	SPTMA0030PG5W02
	0-100 PSIG	Gage	4 ~ 20mA		12.5 ~ 30	5ms	-40°C ~ 125°C	287-1099-ND	205.71	177.24	168.80	162.88	SPTMA0100PG5W02
	0-30 PSIG	Gage	0 ~ 100mV	Pigtail Electrical Connection	15	100µSec	-40°C ~ 125°C	287-1104-ND	173.23	149.26	142.15	137.17	SPTMV0030PG5W02
	0-100 PSIG	Gage	0 ~ 100mV		15	100µSec	-40°C ~ 125°C	287-1105-ND◆	173.23	149.26	142.15	137.17	SPTMV0100PG5W02
5	0-1 PSID	Differential	0 ~ 20mV	Button	12	100µSec	-40°C ~ 85°C	287-1064-ND◆	38.92	30.96	29.01	27.76	SX01D
	0-5 PSID	Differential	0 ~ 75mV	Button	12	100µSec	-40°C ~ 85°C	287-1067-ND	38.92	30.96	29.01	27.76	SX05D
	0-15 PSID	Differential	0 ~ 110mV	Button	12	100µSec	-40°C ~ 85°C	287-1081-ND◆	38.92	30.96	29.01	27.76	SX15D
	0-15 PSIA	Absolute	0 ~ 110mV	Button	12	100µSec	-40°C ~ 85°C	287-1078-ND◆	38.92	30.96	29.01	27.76	SX15A
	0-30 PSID	Differential	0 ~ 110mV	Button	12	100µSec	-40°C ~ 85°C	287-1087-ND	38.92	30.96	29.01	27.76	SX30D
	0-30 PSIA	Absolute	0 ~ 110mV	Button	12	100µSec	-40°C ~ 85°C	287-1084-ND◆	38.92	30.96	29.01	27.76	SX30A

† Response time for a 0 psi to full scale span pressure step change, 10% to 90% rise time. ◆ ***RoHS Compliant***

(Continued)

Honeywell
Sensing and Control

SenSym ICT

Solid State Pressure Sensors *(Cont.)*

Fig. 7 — SSC *NEW!*

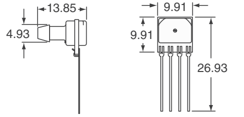

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time†	Operating Temperature	Digi-Key Part No.	Price Each 1	10	25	50	Honeywell Part No.
5	0-100 PSIA	Absolute	0 ~ 150mV	Button	12	100µSec	-40°C ~ 85°C	287-1070-ND◆	38.92	30.96	29.01	27.76	SX100A
	0-100 PSID	Differential	0 ~ 150mV	Button	12	100µSec	-40°C ~ 85°C	287-1073-ND◆	38.92	30.96	29.01	27.76	SX100D
6	0-1 Bar	Gage	0.5 ~ 4.5V/ 0.33 ~ 2.97V	SMT	5	1ms	-20°C ~ 85°C	480-3296-ND◆ ***NEW!***	38.74	30.82	28.88	27.63	HSCMRNN001BGAA5
	0-1 Bar	Gage		SMT	5	0.46ms	-20°C ~ 85°C	480-3297-ND◆ ***NEW!***	38.74	30.82	28.88	27.63	HSCMRNN001BG2A5
	0-1 PSI	Gage		SMT	3.3	0.46ms	-20°C ~ 85°C	480-3298-ND◆ ***NEW!***	38.74	30.82	28.88	27.63	HSCMRNN001PG2A3
7	0-1 Bar	Gage	0.5 ~ 4.5V	SIP	5	1ms	-40°C ~ 85°C	480-3299-ND◆ ***NEW!***	31.00	24.66	23.10	22.11	SSCSANN001BGAA5
	0-1 PSI	Gage	0.5 ~ 4.5V	SIP	5	1ms	-40°C ~ 85°C	480-3300-ND◆ ***NEW!***	31.00	24.66	23.10	22.11	SSCSANN001PGAA5

Solid State Pressure Sensors

Dim. in mm

Fig. 1

Series	Dimensions (mm) A	B
ASDX	16.89	13.97
ASDXAC/AV	16.81	14.02

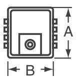

Fig. 2

Series	Dimensions (mm) A	B
ASDX	16.89	13.97
ASDXRRX	16.81	14.02

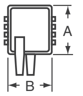

Fig. 3

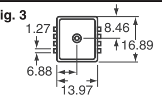

Fig. 4

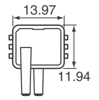

Fig. 5

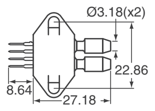

Fig. 6

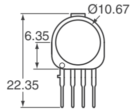

Fig. 7

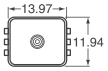

Fig. 8

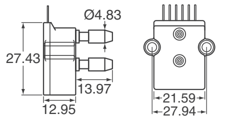

Fig. 9

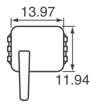

Fig.	Pressure Range (PSI)	Pressure Type	Supply	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	0 ~ 1	Gage	5.25V	480-1923-ND	49.07	40.66	38.90	ASDX001G24R
	0 ~ 1	Gage	5.0V	480-3289-ND	31.61	25.15	23.57	ASDXAVX001PGAA5
	0 ~ 5	Gage	5.25V	480-1924-ND	49.07	40.66	38.90	ASDX005G24R
	0 ~ 5	Gage	5.0V	480-3292-ND	31.61	25.15	23.57	ASDXAVX005PGAA5
	0 ~ 5	Gage	5.0V	480-3286-ND	31.61	25.15	23.57	ASDXAVX005PG2A5
	0 ~ 15	Gage	5.25V	480-1925-ND	49.07	40.66	38.90	ASDX015G24R
	0 ~ 15	Absolute	5.0V	480-3301-ND ***NEW!***	31.61	25.15	23.57	ASDXACX015PAAA5
	0 ~ 30	Gage	5.25V	480-1926-ND	49.07	40.66	38.90	ASDX030G24R
	0 ~ 100	Gage	5.25V	480-1927-ND	49.07	40.66	38.90	ASDX100G24R
2	0 ~ 1	Differential	5.25V	480-1918-ND	49.07	40.66	38.90	ASDX001D44R
	0 ~ 1	Gage	5.0V	480-3288-ND	31.61	25.15	23.57	ASDXRRX001PGAA5
	0 ~ 5	Differential	5.25V	480-1919-ND	49.07	40.66	38.90	ASDX005D44R
	0 ~ 5	Gage	5.0V	480-3291-ND	31.61	25.15	23.57	ASDXRRX005PGAA5
	0 ~ 5	Gage	5.0V	480-3285-ND	31.61	25.15	23.57	ASDXRRX005PG2A5
	0 ~ 15	Differential	5.25V	480-1920-ND	49.07	40.66	38.90	ASDX015D44R
	0 ~ 30	Differential	5.0V	480-3304-ND ***NEW!***	31.61	25.15	23.57	ASDXRRX030PDAA5
	0 ~ 100	Differential	5.25V	480-1922-ND	49.07	40.66	38.90	ASDX100D44R
	-1 ~ 1	Differential	5.0V	480-3290-ND	31.61	25.15	23.57	ASDXRRX001PDAA5
	-5 ~ 5	Differential	5.0V	480-3293-ND	31.61	25.15	23.57	ASDXRRX005PDAA5
	-5 ~ 5	Differential	5.0V	480-3287-ND	31.61	25.15	23.57	ASDXRRX005PD2A5

Fig.	Pressure Range (PSI)	Pressure Type	Supply	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
3	0 ~ 15	Absolute	5.25V	480-1915-ND	49.07	40.66	38.90	ASDX015A24R
	0 ~ 30	Absolute	5.25V	480-1916-ND	49.07	40.66	38.90	ASDX030A24R
	0 ~ 100	Absolute	5.25V	480-1917-ND	49.07	40.66	38.90	ASDX100A24R
4	0 ~ 5	Differential	1.5mA	480-2857-ND	31.62	25.15	23.57	SCC05DD4
	0 ~ 15	Differential	1.5mA	480-2860-ND	31.62	25.15	23.57	SCC15DD4
	0 ~ 15	Differential	20VDC	480-2868-ND	49.38	39.28	36.80	SDX15D4-A
5	0 ~ 5	Differential	1.5mA	480-2858-ND	31.62	25.15	23.57	SCC05DN
	0 ~ 100	Differential	12VDC	480-2870-ND	38.92	30.96	29.01	SX100DN
6	0 ~ 15	Differential	1.5mA	480-2859-ND	31.62	25.15	23.57	SCC15D
	0 ~ 30	Differential	1.5mA	480-2862-ND	31.62	25.15	23.57	SCC30D
	0 ~ 30	Differential	12VDC	480-2871-ND	38.92	30.96	29.01	SX7030D
	0 ~ 100	Differential	12VDC	480-2872-ND	38.92	30.96	29.01	SX7100D
7	0 ~ 1	Gage	20VDC	480-2864-ND	52.90	43.83	41.94	SDX01G2-A
	0 ~ 15	Gage	1.5mA	480-2861-ND	31.62	25.15	23.57	SCC15GD2
	0 ~ 15	Gage	20VDC	480-2869-ND	49.38	39.28	36.80	SDX15G2-A
	0 ~ 15	Absolute	20VDC	480-2866-ND	49.38	39.28	36.80	SDX15A2-A
	0 ~ 100	Gage	20VDC	480-2865-ND	49.38	39.28	36.80	SDX100G2-A
8	0 ~ 15	Absolute	20VDC	480-2863-ND	46.27	38.33	36.68	SCX15ANC
9	0 ~ 15	Absolute	20VDC	480-2867-ND	49.38	39.28	36.80	SDX15A4-A

Note: *For more specifications, please see Digi-Key website.*

PCB Mount Pressure Sensors

Dim. in mm

The **24PC Series** miniature pressure sensors provide reliable gage and absolute pressure sensing performance in a compact package. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 0.5 ~ 250 psi sensing ranges. **Features:** • 1ms Response time • Supply Voltage: 10.0 ~ 12.0 VDC • Operating Temperature: -40°C ~ 85°C

The **26PC Series** miniature pressure sensors provide reliable gage and differential pressure sensing performance in a compact package. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 1.0 ~ 250 psi sensing ranges. **Features:** • 1ms Response time • Supply Voltage: 10.0 ~ 16.0 VDC • Operating Temperature: -40°C ~ 85°C

Fig.	Pressure Type	Pressure Range (PSI)	Linearity (% Span)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
				24PC Series				
1	Differential	0 ~ 1	±0.15	480-2837-ND	16.79	12.86	12.14	24PC01SMT
2	Gage	0 ~ 0.5	±0.2	480-2842-ND	22.07	16.90	15.96	24PCEFB2G
3	Gage	0 ~ 15	±0.2	480-2839-ND	22.07	16.90	15.96	24PCCFA2G
4	Gage	0 ~ 15	±0.2	480-2840-ND	22.07	16.90	15.96	24PCCFB6G
5	Absolute	0 ~ 15	±0.1	480-2841-ND	22.65	18.02	16.88	24PCCFD6A
5	Gage	0 ~ 0.5	±0.2	480-2843-ND	22.07	16.90	15.96	24PCEFD6G
6	Gage	0 ~ 0.5	±0.2	480-2844-ND	22.07	16.90	15.96	24PCEFJ6G
				26PC Series				
2	Gage	0 ~ 5	±0.4	480-2848-ND	29.76	23.68	22.19	26PCBFB2G
6	Gage	0 ~ 15	±0.25	480-2846-ND	29.76	23.68	22.19	26PCAFJ3G
6	Gage	0 ~ 15	±0.25	480-2852-ND	32.74	26.04	24.40	26PCCFJ6G
7	Gage	0 ~ 1	±0.25	480-2845-ND	29.76	23.68	22.19	26PCAFD2G
8	Gage	0 ~ 1	±0.25	480-2847-ND	29.76	23.68	22.19	26PCAFK2G
9	Gage	0 ~ 15	±0.25	480-2849-ND	29.76	23.68	22.19	26PCCFA3G
10	Gage	0 ~ 15	±0.25	480-2850-ND	29.76	23.68	22.19	26PCCFH6G
11	Differential	0 ~ 15	±0.25	480-2851-ND	33.82	26.91	25.21	26PCCFJ6D
12	Gage	0 ~ 100	±0.4	480-2853-ND	29.76	23.68	22.19	26PCFFS2G
13	Gage	0 ~ 250	±0.5	480-2854-ND	30.66	24.39	22.85	26PCGNM6G

Fig. 1

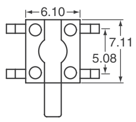

Fig. 2

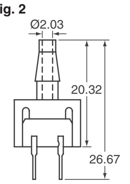

Fig. 3

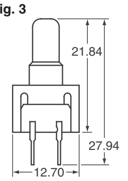

Fig. 4

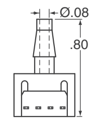

Fig. 5

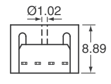

Fig. 6

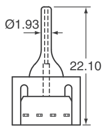

Fig. 7

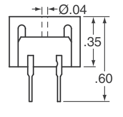

Fig. 8

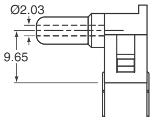

Fig. 9

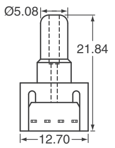

Fig. 10

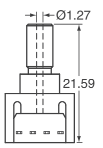

Fig. 11

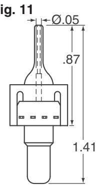

Fig. 12

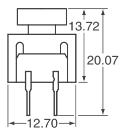

Fig. 13

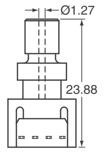

AWM Airflow Sensors

The **AWM1000 Series** mass flow sensor provides all of the outstanding performance benefits of the standard AWM2000 series in a more cost-effective sensor platform **Features:** • Cost-effective micro-bridge technology • Accurate, repeatable airflow sensing • Bidirectional sensing capability

The **AWM2000 Series** micro-bridge mass airflow sensor is a passive device comprised of two Wheatstone bridges **Features:** • Bidirectional sensing capability • Actual mass airflow sensing • Low differential pressure sensing

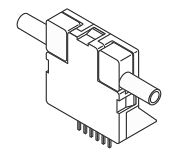

Recommended Excitation (VDC)	Response Time (msec)	Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
10.000 ±0.010	3.0	-25°C ~ 85°C	480-2855-ND	92.24	78.11	75.07	AWM1200V
10.000 ±0.010	3.0	-25°C ~ 85°C	480-2856-ND	101.47	85.92	82.58	AWM2300V

Honeywell
Sensing and Control

SenSym ICT

NEW! Zephyr™ Digital Airflow Sensors

RoHS COMPLIANT

Features: • High ±2.5% accuracy allows for very precise airflow measurement, often ideal for demanding applications with high accuracy requirements • High stability reduces errors due to thermal effects and null shift to provide accurate readings over time, often eliminating need for system calibration after PCB mount and periodically over time • Fast response time allows a customer's application to respond quickly to airflow change, important in critical medical (i.e., anesthesia) and industrial (i.e., fume hood) applications • ASIC-based 1^2C digital output compatibility eases integration to microprocessors or microcontrollers, reducing PCB complexity and component count

Fig.	Supply Voltage	Description	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	3.3V	Short Port Snap Mount	480-3313-ND	96.08	81.36	78.19	HAFBSS0200C2AX3
2	5.0V	Long Port Fastener Mount	480-3312-ND	96.08	81.36	78.19	HAFBLF0200C2AX5

Fig. 1

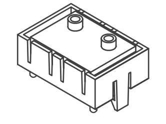

Fig. 2

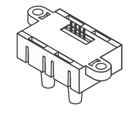

Digital Pressure Gauges — SDPGB Series

Features: • ±0.25% Test Gauge Accuracy • 316 Stainless Steel Sensor • Long Battery Life (Two AA Alkaline approximately 2,500 hours) • Rugged Design • Display: 3 1/2" digit LCD, 1/2" Digit Height • Auto Shut off Time • Low Battery Indication • Media Compatibility: All wetted parts are 316 SS compatible with most liquids and gases

Pressure Range	Resolution PSIG	Operating Temperature	Pressure Port	Digi-Key Part No.	Price Each	Honeywell Part No.
0 ~ 1,000 PSIG	1.0	-20°C ~ 85°C	316 Stainless Steel	287-1935-ND	343.03	SDPGB1000PG5

Dim. in mm

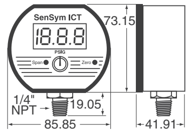

Isolated Pressure Sensors and Compensated Sensors

Features: • Response Time: 100µSec, BE Series-Response Time: 10 mS (0 psi to full scale span pressure step change, 10% ~ 90% risetime) • Operating Temperature: -40°C ~ 125°C

Pressure Range (PSI)	Pressure Type	Output (mV)	Port Description	Max. Supply	Digi-Key Part No.	Price Each 1	10	25	50	Honeywell Part No.
					13mm — RoHS Compliant					
0 ~ 1,000	Absolute	0-200	1/8" 27 NPT-SS	12VDC	287-1123-ND	134.61	113.98	109.55	104.33	13C1000PA4K
0 ~ 5,000	Absolute	0-200	1/8" 27 NPT-SS	12VDC	287-1124-ND	134.61	113.98	109.55	104.33	13C5000PA4K
					19mm — Calibrated and Compensated					
0 ~ 15	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1108-ND◆	138.88	117.60	113.02	107.64	19C015PA4K
0 ~ 15	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1109-ND◆	138.88	117.60	113.02	107.64	19C015PG4K
0 ~ 15	Vacuum	0-100	1/8" 27 NPT-SS	15VDC	287-1938-ND◆	138.88	117.60	113.02	107.64	19C015PV4K
0 ~ 15	Vacuum	0-100	1/4" 18 NPT-SS	15VDC	287-1940-ND◆	138.88	117.60	113.02	107.64	19C015PV5K
0 ~ 15	Vacuum	0-100	1/4" 18 NPT-SS	2.0mA	287-1941-ND	138.88	117.60	113.02	107.64	19C015PV5L
0 ~ 30	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1110-ND◆	134.61	113.98	109.55	104.33	19C030PA4K
0 ~ 30	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1111-ND◆	134.61	113.98	109.55	104.33	19C030PG4K
0 ~ 30	Vacuum	0-100	1/8" 27 NPT-SS	15VDC	287-1944-ND	134.61	113.98	109.55	104.33	19C030PV4K
0 ~ 50	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1112-ND◆	134.61	113.98	109.55	104.33	19C050PA4K
0 ~ 50	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1113-ND◆	134.61	113.98	109.55	104.33	19C050PG4K
0 ~ 100	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1114-ND◆	134.61	113.98	109.55	104.33	19C100PA4K
0 ~ 100	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1115-ND◆	134.61	113.98	109.55	104.33	19C100PG4K
0 ~ 100	Vacuum	0-100	1/4" 18 NPT-SS	15VDC	287-1952-ND	134.61	113.98	109.55	104.33	19C100PV5K
0 ~ 200	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1116-ND◆	134.61	113.98	109.55	104.33	19C200PA4K
0 ~ 200	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1117-ND◆	134.61	113.98	109.55	104.33	19C200PG4K
0 ~ 300	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1118-ND◆	134.61	113.98	109.55	104.33	19C300PA4K
0 ~ 300	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1119-ND◆	134.61	113.98	109.55	104.33	19C300PG4K
0 ~ 500	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1120-ND◆	134.61	113.98	109.55	104.33	19C500PA4K
0 ~ 500	Gage	0-100	1/8" 27 NPT-SS	15VDC	287-1121-ND◆	134.61	113.98	109.55	104.33	19C500PG4K
					Flush Mount					
0 ~ 15	Vacuum	0-100	N/A	15VDC	287-1936-ND	138.88	117.60	113.02	107.64	19C015PV2K
0 ~ 30	Vacuum	0-100	N/A	15VDC	287-1942-ND◆	129.42	107.21	102.59	98.59	19C030PV2K
0 ~ 100	Vacuum	0-100	N/A	15VDC	287-1948-ND	134.61	113.98	109.55	104.33	19C100PV2K
					Bonded Element					
0 ~ 5,000	Gage	0.5-4.5	7/16"-20 UNF-SS	5.25VDC	287-1130-ND†	73.14	60.59	57.98	55.72	BE-4R5000PG6DS
0 ~ 5,000	Gage	0.5-4.5	7/16"-20 UNF-CRS	5.25VDC	287-1131-ND†	69.82	57.84	55.34	53.19	BE-4R5000PG6DC

† Gland per MS33656 (3-904 O-Ring seal not provided) ◆ ***RoHS Compliant***

Dim. in mm

13mm Male Port

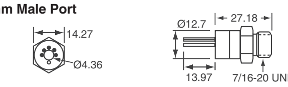

Note: Ø 0.22" ±0.001" (0.56mm ±0.03mm) Pins on Ø 0.230" (5.84mm) pin circle.

19mm Male Port

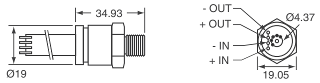

Note: 2" (50.8mm) NOMEX ribbon cable with 0.100" (2.54mm) pin spacing (24 AWG wire size).

Flush Mount

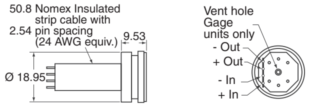
50.8 Nomex Insulated strip cable with 2.54 pin spacing (24 AWG equiv.)
9.53
Ø 18.95
Vent hole Gage units only
- Out
+ Out
- In
+ In

Bonded Element

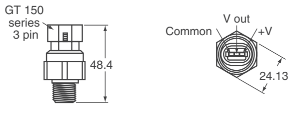

Pressure Transducer

RoHS COMPLIANT

The MEDIAMATE® pressure transducer provides the corrosion resistance of stainless steel at low OEM pricing. It is fully compensated and completely interchangeable without further calibration. It is being used with a wide variety of corrosive media such as Freon, ammonia, water, and hydraulic fluids.

Pressure Range (PSI)	Measurement Type	Operating Temperature	Port Style	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
0 ~ 1,000	Gage	-40°C ~ 100°C	1/8 - 27 NPT	480-2836-ND	291.02	250.75	238.81	9302907

Dim. in mm

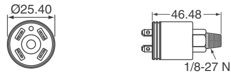

Honeywell
Sensing and Control

HOBBS

Pressure and Vacuum Switches — 5000 Series

RoHS COMPLIANT

The 5000 Series switches are specifically designed to stand up to extended duty applications. It features a Kapton diaphragm for compatibility with a wide variety of fluids. These switches are factory set. The pressure switches are field adjustable.

Specifications: • Pressure Switch Proof Pressure: 500 PSI • Pressure Switch Burst Pressure: 750 PSI for 0.5 ~ 24 PSI; 1, 250 PSI for 25 ~ 150 PSI set point range • Vacuum Switch Proof Pressure: -30" Hg • Temperature Range: -40°C ~ 121°C (-40°F ~ 250°F) • Connector: 1/8" - 27" NPT male thread • Terminals: #8 - 32 screws

Load	Ratings	
Resistive:	15 Amp	6VDC
	8 Amp	12VDC
	4 Amp	24VDC
Inductive:	1 Amp	120VAC
	0.5 Amp	240VAC

Dim. in mm

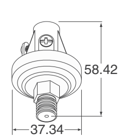

Vacuum Switches

Circuitry	Contact Setting PSIV (Hg)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
N.O.	2"	480-2057-ND	25.47	20.26	18.98	077342 02.0HG 01
N.C.	2"	480-2060-ND	25.47	20.26	18.98	077343 02.0HG 01
N.O.	4"	480-2058-ND	25.47	20.26	18.98	077342 04.0HG 01
N.C.	4"	480-2061-ND	25.47	20.26	18.98	077343 04.0HG 01
N.O.	9"	480-2059-ND	25.47	20.26	18.98	077342 09.0HG 01
N.C.	9"	480-2062-ND	25.47	20.26	18.98	077343 09.0HG 01

Pressure Switches

Circuitry	Contact Setting (PSI)	Factory Setting (PSI)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
N.O.	1.1 ~ 3±0.5	2	480-2039-ND	30.19	24.02	22.50	076051 00000020 01
N.C.	1.1 ~ 3±0.5	2	480-2043-ND	32.83	26.11	24.47	076061 00000020 01
N.O./N.C.	1.1 ~ 3±0.5	2	480-2047-ND	37.96	30.20	28.30	076071 00000020 01
N.O.	3.1 ~ 7±1	4	480-2051-ND	30.19	24.02	22.50	076575 00000040 01
N.C.	3.1 ~ 7±1	4	480-2053-ND	33.39	26.57	24.89	076577 00000040 01
N.O./N.C.	3.1 ~ 7±1	4	480-2055-ND	34.14	27.16	25.45	076579 00000040 01
N.O.	8 ~ 13±2	10	480-2052-ND	28.51	22.69	21.25	076576 00000100 01
N.C.	8 ~ 13±2	10	480-2054-ND	35.96	28.61	26.81	076578 00000100 01
N.O./N.C.	8 ~ 13±2	10	480-2056-ND	34.48	27.43	25.70	076580 00000100 01
N.O.	14 ~ 24±3	15	480-2040-ND	29.90	23.78	22.28	076052 00000150 01
N.C.	14 ~ 24±3	15	480-2044-ND	35.55	28.28	26.50	076062 00000150 01
N.O./N.C.	14 ~ 24±3	15	480-2048-ND	39.62	31.52	29.53	076072 00000150 01
N.O.	25 ~ 50±5	35	480-2041-ND	30.45	24.22	22.70	076053 00000350 01
N.C.	25 ~ 50±5	35	480-2045-ND	37.98	30.22	28.31	076063 00000350 01
N.O./N.C.	25 ~ 50±5	35	480-2049-ND	42.20	33.57	31.46	076073 00000350 01
N.O.	51 ~ 90±7	60	480-2042-ND	30.96	24.63	23.08	076054 00000600 01
N.C.	51 ~ 90±7	60	480-2046-ND	37.98	30.22	28.31	076064 00000600 01
N.O./N.C.	51 ~ 90±7	60	480-2050-ND	37.98	30.22	28.31	076074 00000600 01
			Switch Boot				
Switch Boot for Vacuum and Pressure Switches			480-2063-ND	8.48	6.21	5.81	079380 00

Honeywell
Sensing and Control

Pressure Sensors

Pressure sensors, force sensors and airflow sensors are all developed around semiconductor technology. Each pressure sensor contains a silicon chip with an integral sensing diaphragm and four piezoresistors. Pressure applied on the diaphragm causes it to flex, changing the resistance. This causes a low level output voltage proportional to pressure. Airflow sensors contain a thin-film, thermally isolated bridge structure containing heater and temperature sensing elements. The bridge structure provides a sensitive and fast response to the flow of air or other gas over the chip.

Dimensions in Inches

Fig. 1

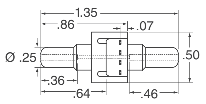

Fig. 2

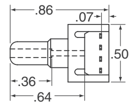

Fig. 3

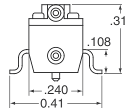

Fig. 4

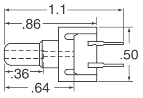

Fig. 5

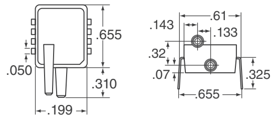

Fig. 6

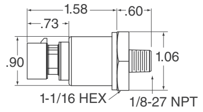

Fig. 7

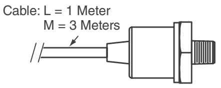

Fig. 8

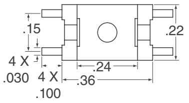

Fig. 9

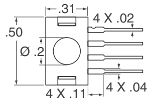

Fig. 10

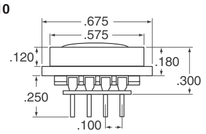

Fig. 11

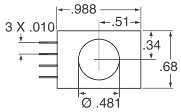

Fig. 12

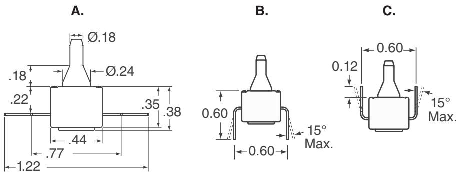

Fig. 13

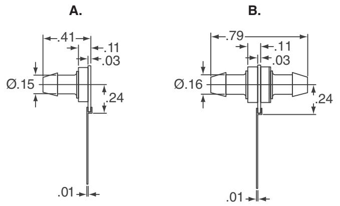

Fig. 14

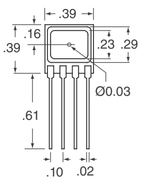

Fig. 15

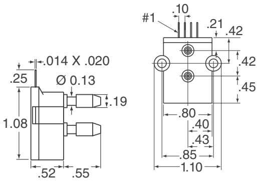

Fig. 16

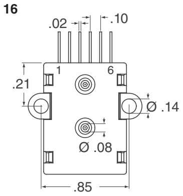

Fig. 17

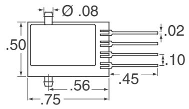

Fig. 18

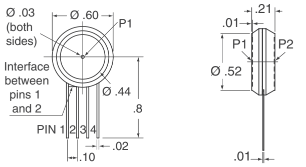

Fig. 19

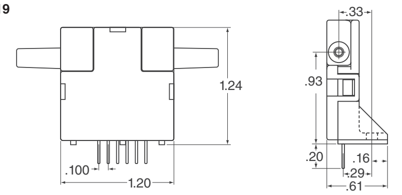

Fig.	Pressure	Output	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
1	1PSID	45mVDC	480-2496-ND	22.07	16.90	15.96	24PCAFA6D
	5PSID	115mVDC	480-2498-ND	22.07	16.90	15.96	24PCBFA6D
	15PSID	225mV	480-2500-ND	22.07	16.90	15.96	24PCCFA6D
	30PSID	330mV	480-2502-ND	22.50	17.23	16.27	24PCDFA6D
	0.5PSID	35mVDC	480-2504-ND	22.52	17.24	16.28	24PCEFA6D
	1PSID	16.7mV	480-2509-ND	29.76	23.68	22.19	26PCAFA6D
	5PSID	50mVDC	480-2512-ND	29.76	23.68	22.19	26PCBFA6D
	15PSID	100mV	480-2516-ND	29.76	23.68	22.19	26PCCFA6D
	30PSID	100mV	480-2519-ND	30.44	24.22	22.69	26PCDFA6D
2	1PSIG	45mVDC	480-2497-ND	22.07	16.90	15.96	24PCAFA6G
	5PSIG	115mVDC	480-2499-ND	22.07	16.90	15.96	24PCBFA6G
	15PSIG	225mV	480-2501-ND	22.07	16.90	15.96	24PCCFA6G
	30PSIG	330mV	480-2503-ND	22.07	16.90	15.96	24PCDFA6G
	0.5PSIG	35mVDC	480-2505-ND	22.07	16.90	15.96	24PCEFA6G
	1PSIG	16.7mV	480-2510-ND	29.76	23.68	22.19	26PCAFA6G
	5PSIG	50mVDC	480-2513-ND	29.76	23.68	22.19	26PCBFA6G
	5PSIG	50mVDC	480-2514-ND	29.76	23.68	22.19	26PCBFB6G
	15PSIG	100mV	480-2517-ND	29.76	23.68	22.19	26PCCFA6G
	15PSIG	100mV	480-2518-ND	29.76	23.68	22.19	26PCCFB6G
	30PSIG	100mV	480-2520-ND	29.76	23.68	22.19	26PCDFA6G
	100PSIG	100mV	480-2521-ND	29.76	23.68	22.19	26PCFFA6G
3	5PSIG	80 ~ 150mV	480-3088-5-ND	16.79	12.86	12.14	24PC05SMT
	15PSIG	160 ~ 290mV	480-3089-5-ND	18.47	14.14	13.36	24PC15SMT
	1PSID	14.7 ~ 18.7mV	480-2506-5-ND	28.44	22.62	21.20	26PC01SMT
	5PSID	47 ~ 53mV	480-2507-5-ND	28.44	22.62	21.20	26PC05SMT
	15PSID	96 ~ 104mV	480-2508-5-ND	28.44	22.62	21.20	26PC15SMT
4	5PSIG	50mVDC	480-2511-ND	29.76	23.68	22.19	26PCBFA2G
	15PSIG	100mV	480-2515-ND	29.76	23.68	22.19	26PCCFA2G
5	5PSID	0.5 ~ 4.5VDC	480-2522-5-ND	56.45	46.76	44.75	ASDXL05D44D
	5PSID	Digital (Hex)	480-2523-5-ND	56.45	46.76	44.75	ASDXL05D44D-DO
	10 in H2OG	0.5 ~ 4.5VDC	480-2524-5-ND	56.45	46.76	44.75	ASDXL10G24R
	10 in H2OG	Digital (Hex)	480-2525-5-ND	56.45	46.76	44.75	ASDXL10G24R-DO
	3PSID	0.5 ~ 4.5VDC	480-2526-5-ND	56.45	46.76	44.75	ASDXL10D44R
	3PSID	Digital (Hex)	480-2527-5-ND	56.45	46.76	44.75	ASDXL10D44R-DO
	10PSI	Digital (Hex)	480-2529-5-ND	56.45	46.76	44.75	ASDXL10D44D-DO
	10 in H2OD	2.5±2VDC	480-2528-5-ND	56.45	46.76	44.75	ASDXL10D44D
6	50PSIG	4 ~ 20mA	480-2543-ND	106.24	89.96	86.46	MLH050PGB01B
	50PSIG	0.5 ~ 4.5VDC	480-2544-ND	106.24	89.96	86.46	MLH050PGB01E
	50PSIG	0.5 ~ 4.5VDC	480-2545-ND	106.24	89.96	86.46	MLH050PGB06A
	50PSIG	0.5 ~ 4.5VDC	480-2546-ND	106.24	89.96	86.46	MLH050PGP06A
	50PSIG	1 ~ 6VDC	480-2547-ND	106.24	89.96	86.46	MLH050PGP06C
	100PSI	1 ~ 5VDC	480-2556-ND	87.82	76.49	75.29	MLH100PAB06G
	100PSI	4 ~ 20mA	480-2558-ND	87.82	76.49	75.29	MLH100PAG01B
	100PSI	0.5 ~ 4.5VDC	480-2560-ND	106.24	89.96	86.46	MLH100PGB01A
	100PSI	4 ~ 20mA	480-2561-ND	106.24	89.96	86.46	MLH100PGB01B
6	100PSI	0.5 ~ 4.5VDC	480-2562-ND	106.24	89.96	86.46	MLH100PGB06A
	100PSI	4 ~ 20mA	480-2563-ND	106.24	89.96	86.46	MLH100PGB06B
	100PSI	0.5 ~ 4.5VDC	480-2564-ND	106.24	89.96	86.46	MLH100PGB10A
	100PSI	4 ~ 20mA	480-2574-ND	106.24	89.96	86.46	MLH100PGP06B
	100PSI	1 ~ 6VDC	480-2575-ND	106.24	89.96	86.46	MLH100PGP06C
	150PSI	0.5 ~ 4.5VDC	480-2577-ND	106.24	89.96	86.46	MLH150PGB01A
	150PSI	4 ~ 20mA	480-2578-ND	106.24	89.96	86.46	MLH150PGB01B
	150PSI	0.5 ~ 4.5VDC	480-2579-ND	106.24	89.96	86.46	MLH150PGB06A
	150PSI	4 ~ 20mA	480-2580-ND	106.24	89.96	86.46	MLH150PGB06B
	150PSI	1 ~ 5VDC	480-2581-ND	106.24	89.96	86.46	MLH150PGB06G
	200PSI	4 ~ 20mA	480-2584-ND	106.24	89.96	86.46	MLH200PGB01B
	200PSI	0.5 ~ 4.5VDC	480-2586-ND	106.24	89.96	86.46	MLH200PSB06A
	200PSI	4 ~ 20mA	480-2587-ND	106.24	89.96	86.46	MLH200PSB06B
	200PSI	1 ~ 6VDC	480-2588-ND	106.24	89.96	86.46	MLH200PSB09C
	250BAR	4 ~ 20mA	480-2590-ND	106.24	89.96	86.46	MLH250BSB01B
	250BAR	4 ~ 20mA	480-2591-ND	106.24	89.96	86.46	MLH250BSD01B
	250PSI	1 ~ 5VDC	480-2592-ND	106.24	89.96	86.46	MLH250PGB06G
	250PSI	1 ~ 6VDC	480-2593-ND	106.24	89.96	86.46	MLH250PGP06C
	250PSI	0.5 ~ 4.5VDC	480-2594-ND	106.24	89.96	86.46	MLH250PSB01A
	250PSI	4 ~ 20mA	480-2595-ND	106.24	89.96	86.46	MLH250PSB01B
	250PSI	0.5 ~ 4.5VDC	480-2596-ND	106.24	89.96	86.46	MLH250PSB09A
	300PSI	0.5 ~ 4.5VDC	480-2598-ND	106.24	89.96	86.46	MLH300PSB01A
	300PSI	4 ~ 20mA	480-2599-ND	106.24	89.96	86.46	MLH300PSB01B
	300PSI	1 ~ 6VDC	480-2600-ND	106.24	89.96	86.46	MLH300PSB01C
	300PSI	0.5 ~ 4.5VDC	480-2601-ND	106.24	89.96	86.46	MLH300PSB01E
	300PSI	0.5 ~ 4.5VDC	480-2602-ND	106.24	89.96	86.46	MLH300PSB09A
	300PSI	0.5 ~ 4.5VDC	480-2603-ND	106.24	89.96	86.46	MLH300PSB09E
	500PSI	4 ~ 20mA	480-2608-ND	106.24	89.96	86.46	MLH500PSB06B
	500PSI	0.5 ~ 4.5VDC	480-2609-ND	106.24	89.96	86.46	MLH500PSB09A
	500PSI	1 ~ 6VDC	480-2610-ND	106.24	89.96	86.46	MLH500PSB09C
	500PSI	0.5 ~ 4.5VDC	480-2605-ND	106.24	89.96	86.46	MLH500PSB01A
	500PSI	4 ~ 20mA	480-2606-ND	106.24	89.96	86.46	MLH500PSB01B
	500PSI	4 ~20mA	480-2616-ND	106.24	89.96	86.46	MLH500PSP06B
	500PSI	1 ~ 6VDC	480-2617-ND	106.24	89.96	86.46	MLH500PSP06C
	1000PSI	0.5 ~ 4.5VDC	480-2530-ND	106.24	89.96	86.46	MLH01KPSB01A
	1000PSI	4 ~ 20mA	480-2531-ND	106.24	89.96	86.46	MLH01KPSB01B
	1000PSI	0.5 ~ 4.5VDC	480-2532-ND	106.24	89.96	86.46	MLH01KPSB06A
	1000PSI	4 ~ 20mA	480-2533-ND	106.24	89.96	86.46	MLH01KPSB06B
	2000PSI	0.5 ~ 4.5VDC	480-2534-ND	106.24	89.96	86.46	MLH02KPSB06A
	2000PSI	4 ~ 20mA	480-2535-ND	106.24	89.96	86.46	MLH02KPSB01B
	3000PSI	4 ~ 20mA	480-2536-ND	106.24	89.96	86.46	MLH03KPGB01B
	3000PSI	0.5 ~ 4.5VDC	480-2537-ND	106.24	89.96	86.46	MLH03KPSB01A
	3000PSI	4 ~ 20mA	480-2538-ND	106.24	89.96	86.46	MLH03KPSB01B
	3000PSI	1 ~ 5VDC	480-3102-ND	106.24	89.96	86.46	MLH03KPSB01G

(Continued)

Pressure Sensors *(Cont.)*

Dimensions in Inches

Fig. 20

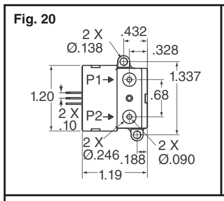

Fig. 21

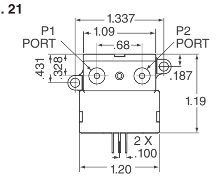

Fig. 22

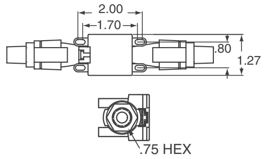

Fig. 23

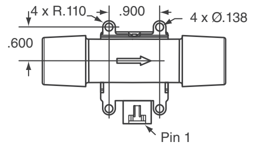

Fig. 24

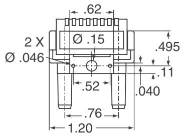

Fig. 25

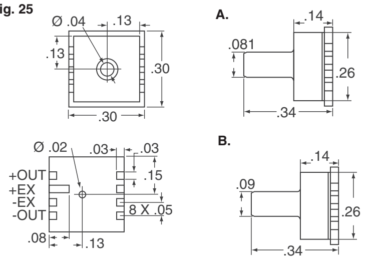

Fig. 26

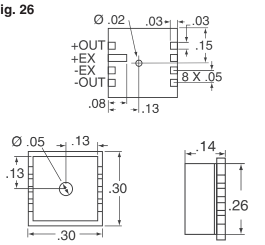

Fig. 27

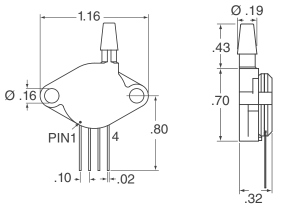

Fig. 28

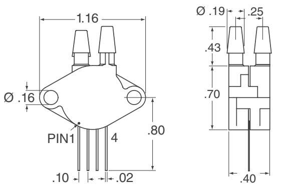

Fig.	Pressure	Output	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
6	3000PSI	0.5 ~ 4.5VDC	480-2539-ND	106.24	89.96	86.46	MLH03KPSB06A
	3000PSI	4 ~ 20mA	480-2540-ND	106.24	89.96	86.46	MLH03KPSB06B
	3000PSI	4 ~ 20mA	480-3103-ND	106.24	89.96	86.46	MLH03KPSB10B
	5000PSI	4 ~ 20mA	480-2548-ND	106.24	89.96	86.46	MLH05KPGB01B
	5000PSI	0.5 ~ 4.5VDC	480-2549-ND	106.24	89.96	86.46	MLH05KPSB01A
	5000PSI	4 ~ 20mA	480-3105-ND	106.24	89.96	86.46	MLH05KPSB01B
	5000PSI	1 ~ 6VDC	480-2552-ND	106.24	89.96	86.46	MLH05KPSP06C
	8000PSI	0.5 ~ 4.5VDC	480-2553-ND	106.24	89.96	86.46	MLH08KPSB01A
	8000PSI	4 ~ 20mA	480-2554-ND	106.24	89.96	86.46	MLH08KPSB01B
7	100PSI	0.5 ~ 4.5VDC	480-2565-ND	106.24	89.96	86.46	MLH100PGL01A
	100PSI	4 ~ 20mA	480-2566-ND	106.24	89.96	86.46	MLH100PGL01B
	100PSI	0.5 ~ 4.5VDC	480-2567-ND	106.24	89.96	86.46	MLH100PGL06A
	100PSI	4 ~ 20mA	480-2568-ND	106.24	89.96	86.46	MLH100PGL06B
	100PSI	1 ~ 6VDC	480-2569-ND	106.24	89.96	86.46	MLH100PGL06C
	100PSI	4 ~ 20mA	480-2570-ND	106.24	89.96	86.46	MLH100PGL09B
	100PSI	4 ~ 20mA	480-2571-ND	106.24	89.96	86.46	MLH100PGM01B
	100PSI	4 ~ 20mA	480-2572-ND	106.24	89.96	86.46	MLH100PGM06B
	100PSI	1 ~ 6VDC	480-2573-ND	106.24	89.96	86.46	MLH100PGM06C
	150PSI	1 ~ 5VDC	480-2582-ND	106.24	89.96	86.46	MLH150PGL04G
	150PSI	4 ~ 20mA	480-2583-ND	106.24	89.96	86.46	MLH150PGL06B
	200PSI	4 ~ 20mA	480-2585-ND	106.24	89.96	86.46	MLH200PGL01B
	200PSI	0.5 ~ 4.5VDC	480-2589-ND	106.24	89.96	86.46	MLH200PSL09A
	250PSI	0.5 ~ 4.5VDC	480-2597-ND	106.24	89.96	86.46	MLH250PSL09A
	500PSI	0.5 ~ 4.5VDC	480-2607-ND	106.24	89.96	86.46	MLH500PSLB06A
	500PSI	0.5 ~ 4.5VDC	480-2611-ND	106.24	89.96	86.46	MLH500PSL01A
	500PSI	0.5 ~ 4.5VDC	480-2612-ND	106.24	89.96	86.46	MLH500PSL06A
	500PSI	0.5 ~ 4.5VDC	480-2613-ND	106.24	89.96	86.46	MLH500PSL09A
	500PSI	4 ~ 20mA	480-2614-ND	106.24	89.96	86.46	MLH500PSL09B
	500PSI	0.5 ~ 4.5VDC	480-2615-ND	106.24	89.96	86.46	MLH500PSM09A
	3000PSI	0.5 ~ 4.5VDC	480-2541-ND	106.24	89.96	86.46	MLH03KPSL01A
	3000PSI	4 ~ 20mA	480-2542-ND	106.24	89.96	86.46	MLH03KPSL01B
	3000PSI	1 ~ 5VDC	480-3104-ND	106.24	89.96	86.46	MLH03KPSL01G
	5000PSI	0.5 ~ 4.5VDC	480-2550-ND	106.24	89.96	86.46	MLH05KPSL06A
	5000PSI	1 ~ 6VDC	480-2551-ND	106.24	89.96	86.46	MLH05KPSL10C
Force Sensor							
8	1500G	180mV	480-2618-ND	60.05	49.75	47.60	FSS1500NSB
	1500G	180mV	480-2620-5-ND	60.05	49.75	47.60	FSS1500NST
	1500G	180mV	480-3308-5-ND ***NEW!***	61.65	51.08	48.87	FSS1500NGT
9	1500G	360mV	480-2621-5-ND	87.28	72.31	69.19	FSG15N1A
10	5PSIG	10VDC	480-2622-ND	104.93	88.85	85.40	1865-01G-KDN
	5PSIG	1.5mA	480-2623-ND	104.93	88.85	85.40	1865-01G-LDN
	10PSIG	10VDC	480-2624-ND	109.43	92.66	89.06	1865-02G-KDN
	10PSIG	1.5mA	480-2625-ND	109.43	92.66	89.06	1865-02G-LDN
	15PSIG	10VDC	480-2626-ND	112.43	95.20	91.49	1865-03G-KDN
	15PSIG	1.5mA	480-2627-ND	112.43	95.20	91.49	1865-03G-LDN
	25PSIG	10VDC	480-2628-ND	116.93	99.01	95.15	1865-05G-KDN
	25PSIG	1.5mA	480-2629-ND	116.93	99.01	95.15	1865-05G-LDN
	30PSIG	10VDC	480-2630-ND	119.92	101.55	97.59	1865-07G-KDN
	30PSIG	1.5mA	480-2631-ND	119.92	101.55	97.59	1865-07G-LDN
Lasertrim Board							
11	1.5LBS	3.0VDC	480-2632-5-ND	94.44	79.97	76.86	FS01
	3LBS	3.0VDC	480-2633-5-ND	97.44	82.51	79.30	FS03
12A	±50mm Hg	4.5VDC	480-2634-5-ND	50.77	40.39	37.84	40PC001B1A
	15PSIG	4.5VDC	480-2635-5-ND	48.45	38.54	36.11	40PC015G1A
	150PSIG	4.5VDC	480-3092-5-ND	47.50	37.79	35.41	40PC150G1A
12B	±50mm Hg	4.5VDC	480-3090-5-ND	50.24	41.62	39.83	40PC001B2A
	15PSIG	4.5VDC	480-3091-5-ND	48.45	38.54	36.11	40PC015G2A
	15PSIV	4.5VDC	480-2636-5-ND	48.45	38.54	36.11	40PC015V2A
	100PSIG	4.5VDC	480-2638-5-ND	48.45	38.54	36.11	40PC100G2A
	150PSIG	4.5VDC	480-2639-5-ND	48.45	38.54	36.11	40PC150G2A
	250PSIG	4.5VDC	480-2640-5-ND	48.45	38.54	36.11	40PC250G2A
	500PSIG	4.5VDC	480-2642-5-ND	50.77	40.39	37.84	40PC500G2A
12C	15PSIV	4.5VDC	480-2637-5-ND	48.45	38.54	36.11	40PC015V3A
	250PSIG	4.5VDC	480-2641-5-ND	50.77	40.39	37.84	40PC250G3A
13A	.3PSIV	20mVDC	480-2644-5-ND	34.96	27.81	26.06	CPC0.3GFH
	1PSIG	18mV	480-3096-ND	31.61	25.15	23.57	CPC01GFC
	1PSIV	18mV	480-2646-5-ND	39.77	31.64	29.64	CPC01GFH
	5PSIV	60mV	480-2647-5-ND	31.61	25.15	23.57	CPC05GFC
	5PSIV	60mV	480-2648-5-ND	39.77	31.64	29.64	CPC05GFH
	4H2OG	25mV	480-2652-5-ND	34.96	27.81	26.06	CPCL04GFC
	10H2OG	20mV	480-2654-5-ND	34.96	27.81	26.06	CPCL10GFC
13A	15PSIA	90mV	480-2649-5-ND	39.77	31.64	29.64	CPC15AFH
	15PSIA	90mV	480-2650-5-ND	39.77	31.64	29.64	CPC15AH
	15PSIA	253mV	480-2655-5-ND	29.43	23.42	21.94	CPX15AF
13B	.3PSID	20mVDC	480-2643-5-ND	34.96	27.81	26.06	CPC0.3DFH
	1PSI	18mV	480-2645-5-ND	31.61	25.15	23.57	CPC01DFC
	4H2OD	25mV	480-2651-5-ND	34.96	27.81	26.06	CPCL04DFC
	4H2OD	68mV	480-3098-ND	31.82	25.31	23.72	CPXL04DF
	10H2OD	20mV	480-2653-5-ND	34.96	27.81	26.06	CPCL10DFC
	10H2OD	78.5mV	480-3099-ND	31.82	25.31	23.72	CPXL10DF
14	100PSIG	295mV	480-3097-ND	29.43	23.42	21.94	CPX100G
15	1H2OD	±2VDC	480-2656-5-ND	104.78	88.73	85.27	DC001NDC4
	2H2OD	±2VDC	480-2657-5-ND	104.78	88.73	85.27	DC002NDC4
	5H2OD	±2VDC	480-2658-5-ND	86.61	73.34	70.48	DC005NDC4
	10H2OD	±2VDC	480-2659-5-ND	86.61	73.34	70.48	DC010NDC4
	30H2OD	±2VDC	480-2660-5-ND	83.43	69.12	66.14	DC030NDC4
	2.5MBARD	±2VDC	480-2661-5-ND	104.78	88.73	85.27	DC2R5BDC4
	30H2OD	±2.5VDC	480-3100-ND	83.43	69.12	66.14	DC030NDR5
16	1H2OD	10mV	480-2662-5-ND	92.88	78.65	75.59	DCXL01DS
	5H2OD	20mV	480-2663-5-ND	85.46	70.79	67.74	DCXL05DS
	10H2OD	20mV	480-2664-5-ND	85.46	70.79	67.74	DCXL10DS
	20H2OD	20mV	480-3101-ND	71.61	59.32	56.76	DCXL20DS
	30H2OD	20mV	480-2665-5-ND	71.61	59.32	56.76	DCXL30DS
17	1H2OD	6mV	480-2666-5-ND	104.78	88.73	85.27	DUXL01D
	5H2OD	22.5mV	480-2667-5-ND	86.61	73.34	70.48	DUXL05D
	10H2OD	30mV	480-2668-5-ND	86.61	73.34	70.48	DUXL10D
	20H2OD	30mV	480-2669-5-ND	77.26	64.00	61.24	DUXL20D
18	1PSIDV	75mV	480-2687-5-ND	37.35	29.71	27.84	XPX01D
	100PSIDV	295mV	480-2688-5-ND	43.94	34.96	32.75	XPX100DT
	150PSIDV	262.5mV	480-2690-5-ND	37.35	29.71	27.84	XPX150D
	10H2ODV	2mV/in H2O	480-2684-5-ND	47.87	38.08	35.68	XPCL10DH
Airflow							
19	30SCCM	5VDC	480-3282-ND	111.61	94.51	90.83	AWM3150V
	200SCCM	±44.5mV	480-2691-5-ND	101.47	85.92	82.58	AWM2100V
	200SCCM	5VDC	480-2692-5-ND	111.61	94.51	90.83	AWM3100V
	1000SCCM	5VDC	480-2693-5-ND	111.61	94.51	90.83	AWM3300V
20	1000SCCM	54.7mV	480-3093-ND	101.47	85.92	82.58	AWM42300V
	1000SCCM	5VDC	480-2694-5-ND	111.61	94.51	90.83	AWM43300V
21	6SLPM	5VDC	480-2695-5-ND	111.61	94.51	90.83	AWM43600V
22	5SLPM	5VDC	480-2696-ND	119.43	101.13	97.19	AWM5101VN
	10SLPM	5VDC	480-3094-ND	119.43	101.13	97.19	AWM5102VN
	20SLPM	5VDC	480-2697-ND	119.43	101.13	97.19	AWM5104VN
23	200SLPM	1 ~ 5VDC	480-3095-ND	119.43	101.13	97.19	AWM720P1
24	200SCCM	±77mVDC	480-2698-5-ND	61.24	50.74	48.55	AWM92100V

Fig.	Pressure	Sensitivity	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
Typical Sensitivity							
25A	5PSIG	7.5mV/mA/PSI	480-2673-5-ND	32.92	26.19	24.54	SCCP05GSMTP
	15PSIA	4.3mV/mA/PSI	480-3106-ND	32.92	26.19	24.54	SCCP15ASMTP
	15PSIG	4.3mV/mA/PSI	480-3107-ND	32.92	26.19	24.54	SCCP15GSMTP
	30PSIA	2.9mV/mA/PSI	480-3108-ND	32.92	26.19	24.54	SCCP30ASMTP
	30PSIG	2.9mV/mA/PSI	480-3109-ND	32.92	26.19	24.54	SCCP30GSMTP
	100PSIG	1.3mV/mA/PSI	480-2674-5-ND	32.92	26.19	24.54	SCCP100GSMTP
	15PSIA	1.50mV/mA/PSI	480-3112-ND	31.61	25.15	23.57	SXP15ASMTP
	100PSIG	0.30mV/mA/PSI	480-3111-ND	31.61	25.15	23.57	SXP100GSMTP
25B	15PSIA	4.3mV/mA/PSI	480-2675-5-ND	32.92	26.19	24.54	SCCP15ASMTLP
26	15PSIA	4.3mV/mA/PSI	480-2671-5-ND	31.61	25.15	23.57	SCC15ASMT
	30PSIA	2.9mV/mA/PSI	480-2672-5-ND	32.92	26.19	24.54	SCC30ASMT
	300PSIA	0.14mV/mA/PSI	480-2677-5-ND	31.61	25.15	23.57	SX150ASMT
	300PSIG	0.14mV/mA/PSI	480-3110-ND	32.92	26.19	24.54	SX150GSMT
27	1PSIV	18mV/PSI	480-2680-5-ND	49.76	41.23	39.45	XPC01GTC
	150PSIV	90mV typ	480-2681-5-ND	49.76	41.23	39.45	XPC150GTC
	15PSIA	6mV/PSI	480-2682-5-ND	49.76	41.23	39.45	XPC15ATC
28	4H2ODV	6.25mV/PSI	480-2683-5-ND	49.76	41.23	39.45	XPCL04DTC
	1PSIDV	18mV/PSI	480-2679-5-ND	49.76	41.23	39.45	XPC01DTC
	10H2OD	2mV/in H2O	480-2685-5-ND	49.76	41.23	39.45	XPCL10DTC
	10H2OD	2mV/in H2O	480-2686-5-ND	49.76	41.23	39.45	XPCL10DTH

SSI Technologies, Inc.
Controls Division

MediaSensor™ P51 Pressure Transducers

Description: This family of bulk micro-machined, absolute, gauge and sealed pressure transducers and transmitters are for both harsh and benign media with a total error of ±1% and are well suited for a variety of automotive, industrial and commercial applications. **Features:** • Robust Package: All laser-welded stainless steel design for optimal media isolation • Maximum Flexibility: Custom ASIC provides signal conditioning for calibration and temperature compensation • Temperature Range: -40° ~ 105°C • Response Time: <1ms • Connector: I36 - 36" Integral Harness • No O-Rings • 316L Stainless Steel Construction

Note: More Product available on-line. For pricing and availability, visit our website.

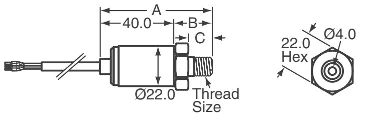

Thread Size	Length - mm		
	A	B	C
1/4-18 NPT	66.6	26.0	18.0
1/8-27 NPT	61.6	21.0	13.0

Color	Output	
	1 ~ 5 VOUT 0.5 ~ 4.5 VOUT	4 ~ 20mAOUT
Red	Power	Power
White	VOUT	Return
Black	Ground	Not Used

Pressure Range (psi)	Pressure Type †	Port Thread (npt)	Digi-Key Part No.	Price Each 1	10	100	SSI Technologies Part No.
0.5 ~ 4.5 VOUT — 5+/-0.5 VIN							
15	G	1/4	734-1000-ND	68.63	64.05	61.77	P51-15-G-A-I36-4.5V-R
50	G	1/4	734-1001-ND	68.63	64.05	61.77	P51-50-G-A-I36-4.5V-R
100	G	1/4	734-1002-ND	68.63	64.05	61.77	P51-100-G-A-I36-4.5V-R
200	G	1/4	734-1003-ND	68.63	64.05	61.77	P51-200-G-A-I36-4.5V-R
300	G	1/4	734-1004-ND	68.63	64.05	61.77	P51-300-G-A-I36-4.5V-R
15	G	1/8	734-1005-ND	68.63	64.05	61.77	P51-15-G-B-I36-4.5V-R
50	G	1/8	734-1006-ND	68.63	64.05	61.77	P51-50-G-B-I36-4.5V-R
100	G	1/8	734-1007-ND	68.63	64.05	61.77	P51-100-G-B-I36-4.5V-R
200	G	1/8	734-1008-ND	68.63	64.05	61.77	P51-200-G-B-I36-4.5V-R
300	G	1/8	734-1009-ND	68.63	64.05	61.77	P51-300-G-B-I36-4.5V-R
50	A	1/4	734-1041-ND	68.63	64.05	61.77	P51-50-A-A-I36-4.5V-R
100	A	1/4	734-1042-ND	68.63	64.05	61.77	P51-100-A-A-I36-4.5V-R
500	A	1/4	734-1043-ND	68.63	64.05	61.77	P51-500-A-A-I36-4.5V-R
1000	A	1/4	734-1044-ND	68.63	64.05	61.77	P51-1000-A-A-I36-4.5V-R
50	A	1/8	734-1046-ND	68.63	64.05	61.77	P51-50-A-B-I36-4.5V-R
100	A	1/8	734-1047-ND	68.63	64.05	61.77	P51-100-A-B-I36-4.5V-R
500	A	1/8	734-1048-ND	68.63	64.05	61.77	P51-500-A-B-I36-4.5V-R
1000	A	1/8	734-1049-ND	68.63	64.05	61.77	P51-1000-A-B-I36-4.5V-R
100	S	1/4	734-1082-ND	68.63	64.05	61.77	P51-100-S-A-I36-4.5V-R
500	S	1/4	734-1083-ND	68.63	64.05	61.77	P51-500-S-A-I36-4.5V-R
1000	S	1/4	734-1084-ND	68.63	64.05	61.77	P51-1000-S-A-I36-4.5V-R
100	S	1/8	734-1087-ND	68.63	64.05	61.77	P51-100-S-B-I36-4.5V-R
500	S	1/8	734-1088-ND	68.63	64.05	61.77	P51-500-S-B-I36-4.5V-R
1000	S	1/8	734-1089-ND	68.63	64.05	61.77	P51-1000-S-B-I36-4.5V-R
0.5 ~ 4.5 VOUT — 5+/-0.5 VIN — Over Voltage Protection							
50	G	1/4	734-1011-ND	76.13	71.05	68.51	P51-50-G-A-I36-4.5OV-R
200	G	1/4	734-1013-ND	76.13	71.05	68.51	P51-200-G-A-I36-4.5OV-R
300	G	1/4	734-1014-ND	76.13	71.05	68.51	P51-300-G-A-I36-4.5OV-R
15	G	1/8	734-1015-ND	76.13	71.05	68.51	P51-15-G-B-I36-4.5OV-R
300	G	1/8	734-1019-ND	76.13	71.05	68.51	P51-300-G-B-I36-4.5OV-R
50	A	1/4	734-1051-ND	76.13	71.05	68.51	P51-50-A-A-I36-4.5OV-R
100	A	1/4	734-1052-ND	76.13	71.05	68.51	P51-100-A-A-I36-4.5OV-R
50	A	1/8	734-1056-ND	76.13	71.05	68.51	P51-50-A-B-I36-4.5OV-R
100	A	1/8	734-1057-ND	76.13	71.05	68.51	P51-100-A-B-I36-4.5OV-R
500	A	1/8	734-1058-ND	76.13	71.05	68.51	P51-500-A-B-I36-4.5OV-R
1000	A	1/8	734-1059-ND	76.13	71.05	68.51	P51-1000-A-B-I36-4.5OV-R
15	S	1/4	734-1090-ND	76.13	71.05	68.51	P51-15-S-A-I36-4.5OV-R
50	S	1/4	734-1091-ND	76.13	71.05	68.51	P51-50-S-A-I36-4.5OV-R
100	S	1/4	734-1092-ND	76.13	71.05	68.51	P51-100-S-A-I36-4.5OV-R
100	S	1/8	734-1097-ND	76.13	71.05	68.51	P51-100-S-B-I36-4.5OV-R
3	G	1/8	734-1166-ND	76.13	71.05	68.51	P51-3-G-UB-I36-4.5V-R
5	G	1/8	734-1167-ND	76.13	71.05	68.51	P51-5-G-UB-I36-4.5V-R
10	G	1/8	734-1168-ND	76.13	71.05	68.51	P51-10-G-UB-I36-4.5V-R
3	G	1/4	734-1169-ND	76.13	71.05	68.51	P51-3-G-UC-I36-4.5V-R
5	G	1/4	734-1170-ND	76.13	71.05	68.51	P51-5-G-UC-I36-4.5V-R
10	G	1/4	734-1171-ND	76.13	71.05	68.51	P51-10-G-UC-I36-4.5V-R

Pressure Range (psi)	Pressure Type †	Port Thread (npt)	Digi-Key Part No.	Price Each 1	10	100	SSI Technologies Part No.
1 ~ 5 VOUT — 8 ~ 30 VIN							
3	G	1/4	734-1175-ND	76.13	71.05	68.51	P51-3-G-UC-I36-5V-R
5	G	1/4	734-1176-ND	76.13	71.05	68.51	P51-5-G-UC-I36-5V-R
10	G	1/4	734-1177-ND	76.13	71.05	68.51	P51-10-G-UC-I36-5V-R
15	G	1/4	734-1020-ND	68.63	64.05	61.77	P51-15-G-A-I36-5V-R
50	G	1/4	734-1021-ND	68.63	64.05	61.77	P51-50-G-A-I36-5V-R
100	G	1/4	734-1022-ND	68.63	64.05	61.77	P51-100-G-A-I36-5V-R
200	G	1/4	734-1023-ND	68.63	64.05	61.77	P51-200-G-A-I36-5V-R
300	G	1/4	734-1024-ND	68.63	64.05	61.77	P51-300-G-A-I36-5V-R
3	G	1/8	734-1172-ND	76.13	71.05	68.51	P51-3-G-UB-I36-5V-R
5	G	1/8	734-1173-ND	76.13	71.05	68.51	P51-5-G-UB-I36-5V-R
10	G	1/8	734-1174-ND	76.13	71.05	68.51	P51-10-G-UB-I36-5V-R
15	G	1/8	734-1025-ND	68.63	64.05	61.77	P51-15-G-B-I36-5V-R
50	G	1/8	734-1026-ND	68.63	64.05	61.77	P51-50-G-B-I36-5V-R
100	G	1/8	734-1027-ND	68.63	64.05	61.77	P51-100-G-B-I36-5V-R
200	G	1/8	734-1028-ND	68.63	64.05	61.77	P51-200-G-B-I36-5V-R
300	G	1/8	734-1029-ND	68.63	64.05	61.77	P51-300-G-B-I36-5V-R
50	A	1/4	734-1061-ND	68.63	64.05	61.77	P51-50-A-A-I36-5V-R
100	A	1/4	734-1062-ND	68.63	64.05	61.77	P51-100-A-A-I36-5V-R
500	A	1/4	734-1063-ND	68.63	64.05	61.77	P51-500-A-A-I36-5V-R
1000	A	1/4	734-1064-ND	68.63	64.05	61.77	P51-1000-A-A-I36-5V-R
50	A	1/8	734-1066-ND	68.63	64.05	61.77	P51-50-A-B-I36-5V-R
100	A	1/8	734-1067-ND	68.63	64.05	61.77	P51-100-A-B-I36-5V-R
1000	A	1/8	734-1069-ND	68.63	64.05	61.77	P51-1000-A-B-I36-5V-R
15	S	1/4	734-1100-ND	68.63	64.05	61.77	P51-15-S-A-I36-5V-R
50	S	1/4	734-1101-ND	68.63	64.05	61.77	P51-50-S-A-I36-5V-R
100	S	1/4	734-1102-ND	68.63	64.05	61.77	P51-100-S-A-I36-5V-R
100	S	1/8	734-1107-ND	68.63	64.05	61.77	P51-100-S-B-I36-5V-R
500	S	1/8	734-1108-ND	68.63	64.05	61.77	P51-500-S-B-I36-5V-R
4 ~ 20 mAOUT — 8 ~ 30 VIN							
3	G	1/4	734-1181-ND	76.13	71.05	68.51	P51-3-G-UC-I36-20MA-R
5	G	1/4	734-1182-ND	76.13	71.05	68.51	P51-5-G-UC-I36-20MA-R
10	G	1/4	734-1183-ND	76.13	71.05	68.51	P51-10-G-UC-I36-20MA-R
15	G	1/4	734-1030-ND	68.63	64.05	61.77	P51-15-G-UC-I36-20MA-0-R
50	G	1/4	734-1031-ND	68.63	64.05	61.77	P51-50-G-A-I36-20MA-R
100	G	1/4	734-1032-ND	68.63	64.05	61.77	P51-100-G-A-I36-20MA-R
200	G	1/4	734-1033-ND	68.63	64.05	61.77	P51-200-G-A-I36-20MA-R
300	G	1/4	734-1034-ND	68.63	64.05	61.77	P51-300-G-A-I36-20MA-R
3	G	1/8	734-1178-ND	76.13	71.05	68.51	P51-3-G-UB-I36-20MA-R
5	G	1/8	734-1179-ND	76.13	71.05	68.51	P51-5-G-UB-I36-20MA-R
10	G	1/8	734-1180-ND	76.13	71.05	68.51	P51-10-G-UB-I36-20MA-R
15	G	1/8	734-1035-ND	68.63	64.05	61.77	P51-15-G-B-I36-20MA-R
50	G	1/8	734-1036-ND	68.63	64.05	61.77	P51-50-G-B-I36-20MA-R
100	G	1/8	734-1037-ND	68.63	64.05	61.77	P51-100-G-B-I36-20MA-R
200	G	1/8	734-1038-ND	68.63	64.05	61.77	P51-200-G-B-I36-20MA-R
15	A	1/4	734-1070-ND	68.63	64.05	61.77	P51-15-A-A-I36-20MA-R
50	A	1/4	734-1071-ND	68.63	64.05	61.77	P51-50-A-A-I36-20MA-R
100	A	1/4	734-1072-ND	68.63	64.05	61.77	P51-100-A-A-I36-20MA-R
500	A	1/4	734-1073-ND	68.63	64.05	61.77	P51-500-A-A-I36-20MA-R
1000	A	1/4	734-1074-ND	68.63	64.05	61.77	P51-1000-A-A-I36-20MA-R
50	A	1/8	734-1076-ND	68.63	64.05	61.77	P51-50-A-B-I36-20MA-R
100	A	1/8	734-1077-ND	68.63	64.05	61.77	P51-100-A-B-I36-20MA-R
50	S	1/4	734-1111-ND	68.63	64.05	61.77	P51-50-S-A-I36-20MA-R
100	S	1/4	734-1112-ND	68.63	64.05	61.77	P51-100-S-A-I36-20MA-R
500	S	1/4	734-1113-ND	68.63	64.05	61.77	P51-500-S-A-I36-20MA-R

† G = Gauged, A = Absolute, S = Sealed Gauge

Digital Fluid-Trac™ Ultrasonic Drum Level Gauge

Description: This drum level gauge is a cost competitive non-contact continuous liquid level drum gauge. Designed for use on 55 gallon vertical drums storing a wide variety of media such as water, waste water, motor oil, hydraulic fluid and diesel fuel. **Features:** • Fits NPT openings (2" or 3/4") • Accurate to 1 gallon with a resolution of +/- 0.5 gallon • Powered by two 9V batteries (not included)

Range	Operating Temperature	Battery Life	Digi-Key Part No.	Price Each 1	5	SSI Technologies Part No.
Up to 32"	0°C ~ 50°C	30 Days	734-1162-ND	125.00	112.50	DFT-110

SSI Technologies, Inc. Controls Division

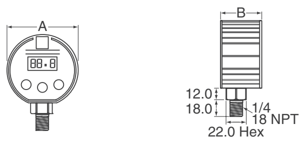

MediaGauge™ Digital Pressure Gauges

Specifications:

• Package: NEMA 4X Rating • Operating Temperature: -10°C ~ 60°C (-14°F ~ 140°F) • Output Type: 4 Digit LCD • Keypad Operated Functions: Auto Zero and Peak Hold • Port: 1/4 - 18 NPT

Additional Specifications: MG-MD:
4-20mA Current option and High and Low Pressure Set points **MGA-9V:** Air Only

Pressure Gauge	Dimensions - mm		Accuracy	Digi-Key Part No.	Price Each		SSI Technologies Part No.
	A	B			1	5	
MG-9V (9 Volt Battery)							
3000	75.5	44.0	±0.25%	734-1132-ND	180.50	171.00	MG-3000-A-9V-R
5000	75.5	44.0	±0.25%	734-1133-ND	180.50	171.00	MG-5000-A-9V-R
MG-MD (12 Vdc)							
300	75.5	44.0	±0.25%	734-1140-ND	237.50	225.00	MG-300-A-MD-R
MG1-9V (9 Volt Battery)							
5	63.5	46.0	±1.0%	734-1151-ND	148.20	140.40	MG1-5-A-9V-R
100	63.5	46.0	±1.0%	734-1153-ND	142.00	127.80	MG1-100-A-9V-R
200	63.5	46.0	±1.0%	734-1154-ND	142.00	127.80	MG1-200-A-9V-R
3000	63.5	46.0	±1.0%	734-1157-ND	142.00	127.80	MG1-3000-A-9V-R
5000	63.5	46.0	±1.0%	734-1158-ND	142.00	127.80	MG1-5000-A-9V-R
MGA-9V (9 Volt Battery)							
30	63.5	46.0	±1.0%	734-1159-ND	80.00	72.00	MGA-30-A-9V-R
300	63.5	46.0	±1.0%	734-1161-ND	80.00	72.00	MGA-300-A-9V-R

Honeywell

Integrated Pressure Transducers

Honeywell's Integrated Pressure Transducer (IPT) provides high accuracy pressure data in an industry standard SPI digital format.

Applications:
• Altimeters • Cabin Air Pressure • Flight Test Systems • Meteorology • Instrumentation and Analytical Equipment

Features and Benefits:
• Digital SPI Output • Industry Standard Interface: Ready communication between a µController/µProcessor and the IPT • Media Interface: Handles most dry gas media

Fig. 1

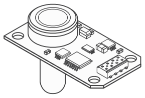

Fig. 2

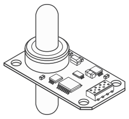

Fig.	Measurement Type	Full Scale Range	Accuracy	Digi-Key Part No.	Price Each	Honeywell Part No.
1	Absolute	20 PSIA	±0.04%FS	342-1075-ND	518.75	IPT0020A33R
2	Differential	1 PSID	±0.10%FS	342-1074-ND	518.75	IPT0001D33R

SMC®

Pneumatic Automation Components

SMC Corporation is the largest manufacturer in the world of pneumatic automation components. SMC's line of fluid power and pneumatic instrumentation products include vacuum and pressure sensors, switches, gauges, electro-pneumatic regulators and digital flow switches/sensors for air, water and chemicals.

Pressure Range	Proof Pressure	Pressure Type	Port	Supply Voltage (VDC)	Max. Supply Current (mA)	Output	Operating Temperature °C	Digi-Key Part No.	Price Each	SMC Part No.
ZSE30/ISE30 Series — 2-Color Display										
0.0 ~ 1.0MPa	1.5MPa	Pressure	NPT 1/8"	12 ~ 24	45	PNP	0 ~ 50	606-1001-ND	86.45	ISE30-T1-65
-100 ~ 100kPa	500kPa	Vacuum	ø1/4" One Touch	12 ~ 24	45	PNP	0 ~ 50	606-1008-ND	90.09	ZSE30-N7L-65
0.0 ~ 1.0MPa	1.5MPa	Pressure	ø1/4" One Touch	12 ~ 24	45	PNP	0 ~ 50	606-1002-ND	91.87	ISE30-N7L-65
0.0 ~ 1.0MPa	1.5MPa	Pressure	ø1/4" One Touch	12 ~ 24	45	NPN	0 ~ 50	606-1003-ND	91.87	ISE30-N7L-25
PSE200 Series — Multi-channel Controller										
—	—	—	—	12 ~ 24	55	NPN x 5	0 ~ 50	606-1016-ND	144.78	PSE200
—	—	—	—	12 ~ 24	55	PNP x 5	0 ~ 50	606-1017-ND	144.78	PSE201
PSE540 Series — Compact, 2-Color Display, Remote Type Sensor										
-100 ~ 100kPa	500kPa	Pressure	ø4" Plug-in Reducer	12 ~ 24	15	1 ~ 5V	0 ~ 50	606-1022-ND	48.65	PSE543-R04
ITV2000 Series — Electro-pneumatic Regulator										
.005 ~ 0.5MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1026-ND	345.35	ITV2030-01N2L4
Mounting Bracket for ISE30/ZSE30 with Mounting Screws								606-1012-ND	2.09	ZS-27-B
Panel Mount Kit for ISE40/ZSE40								606-1015-ND	3.00	ZS-22-A
Panel Mount Adapter for PSE200 Waterproof Seal, with Mounting Screws								606-1018-ND	9.74	ZS-26-C
3 Meter Sensor Cable for PSE530/531								606-1023-ND	8.28	ZS-26-F

Flow Rate Liters/Minute	Pressure Type	Port	Supply Voltage (VDC)	Max. Supply Current (mA)	Output	Operating Temperature °C	Digi-Key Part No.	Price Each	SMC Part No.
PF2A Series — Digital Air Flow Switch									
5 ~ 50	Gauge	NPT 1/4"	12 ~ 24	150	NPN	0 ~ 50	606-1032-ND	439.64	PF2A750-N02-27
5 ~ 50	Gauge	NPT 1/4"	12 ~ 24	150	PNP	0 ~ 50	606-1034-ND	439.64	PF2A750-N02-67
50 ~ 500	Gauge	NPT 1/2"	12 ~ 24	170	PNP	0 ~ 50	606-1035-ND	439.64	PF2A751-N04-67
PF2W Series — Digital Water Flow Switch									
2 ~ 16	Gauge	NPT 1/2"	12 ~ 24	70	NPN	0 ~ 50	606-1036-ND	493.91	PF2W720-N04-27
2 ~ 16	Gauge	NPT 1/2"	12 ~ 24	70	PNP	0 ~ 50	606-1038-ND	493.91	PF2W720-N04-67
10 ~ 100	Gauge	NPT 3/4"	12 ~ 24	80	NPN	0 ~ 50	606-1037-ND	581.12	PF2W711-N06-27
10 ~ 100	Gauge	NPT 3/4"	12 ~ 24	80	PNP	0 ~ 50	606-1039-ND	581.12	PF2W711-N06-67
PF2D Series — Digital Deionized Water or Chemical Flow Switch									
1.8 ~ 20	Gauge	1/2"	12 ~ 24	20	1 ~ 5V	0 ~ 50	606-1040-ND	562.64	PF2D520-13-1

Sensors

Accelerometers

Dim. in mm

Fig. 1

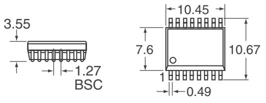

Fig. 2

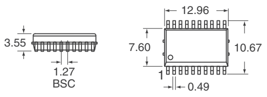

Fig. 3 ***NEW!***

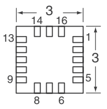

Fig. 4

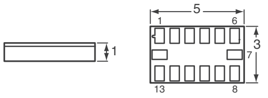

Fig. 5 ***NEW!***

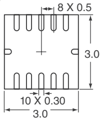

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensing Axis	Zero g Output (VDD = 5V)*	Package	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	10	25
1	4.75 ~ 5.25	1.5	X	2.5V	16-SOIC	-40 ~ 105	MMA2260EG-ND◆	14.49	13.17	12.19
	4.75 ~ 5.25	56.3	X	2.5V	16-SOIC	-40 ~ 125	MMA2202EG-ND◆	8.45	7.61	6.93
	4.75 ~ 5.25	112.5	X	2.5V	16-SOIC	-40 ~ 125	MMA2204EG-ND◆	8.45	7.61	6.93
	4.75 ~ 5.25	40	X	2.5V	16-SOIC	-40 ~ 105	MMA2201EG-ND◆	8.45	7.61	6.93
	4.75 ~ 5.25	200	X	2.5V	16-SOIC	-40 ~ 125	MMA2301EG-ND◆	8.45	7.61	6.93
	4.75 ~ 5.25	200	X	2.5V	16-SOIC	-40 ~ 125	MMA2301EGR2-ND◆		3988.00/1,000	
	4.75 ~ 5.25	2.5	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270EG-ND◆	9.35	8.42	7.67
	4.75 ~ 5.25	2.5	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270EGR2CT-ND◆§	8.13	7.36	6.75
	4.75 ~ 5.25	225	Z	2.5V	16-SOIC	-40 ~ 125	MMA1212EG-ND◆	7.11	6.41	5.84
	4.75 ~ 5.25	281	Z	2.5V	16-SOIC	-40 ~ 125	MMA1200EG-ND◆	7.11	6.41	5.84
	4.75 ~ 5.25	8	Z	2.5V	16-SOIC	-40 ~ 125	MMA1220EG-ND◆	7.67	6.90	6.29
	4.75 ~ 5.25	5	Z	2.5V	16-SOIC	-40 ~ 125	MMA1250EG-ND◆	9.35	8.42	7.67
	4.75 ~ 5.25	1.55	Z	2.5V	16-SOIC	-40 ~ 105	MMA1260EG-ND◆	9.35	8.42	7.67
2	4.75 ~ 5.25	40 (X) / 40 (Y)	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3201EG-ND◆	11.83	10.65	9.70
	4.75 ~ 5.25	100 (X) / 50 (Y)	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EG-ND◆	11.83	10.65	9.70
	4.75 ~ 5.25	100 (X) / 50 (Y)	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EGR2CT-ND◆§	10.28	9.31	8.54
	4.75 ~ 5.25	100 (X) / 50 (Y)	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EGR2TR-ND◆∆		5581.00/1,000	
3	1.71 ~ 1.89	2 / 4 / 8	X-Y-Z	1.65V†	16-QFN	-40 ~ 85	MMA8450QT-ND◆ ***NEW!***	3.24	3.06	2.88
4	2.2 ~ 3.6	4 / 12	X-Y	1.4V†	14-LGA	-40 ~ 85	MMA6331LT-ND◆ ***NEW!***	1.94	1.84	1.73
	2.2 ~ 3.6	4 / 12	X-Y-Z	1.4V†	14-LGA	-40 ~ 85	MMA7331LCT-ND◆ ***NEW!***	1.94	1.84	1.73
	2.2 ~ 3.6	1.5 / 6	X-Y-Z	1.65V†	14-LGA	-40 ~ 85	MMA7361LCT-ND◆ ***NEW!***	1.94	1.84	1.73
	2.4 ~ 3.6	2 / 4 / 8	X-Y-Z	1.65V†	14-LGA	-40 ~ 85	MMA7455LT-ND◆	2.02	1.91	1.80
5	2.4 ~ 3.6	1.5	X-Y-Z	1.65V†	10-DFN	-40 ~ 85	MMA7660FCT-ND◆ ***NEW!***	1.51	1.35	.84
Accelerometer Development Kits — RoHS Compliant										
Accelerometer Evaluation Kit for MMA7361L							KIT3376MMA7361L-ND	35.00	—	—
Evaluation Kit for MMA7456L							KIT3468MMA7455L-ND ***NEW!***	35.00	—	—
Evaluation Kit for MMA7660FC							RD3803MMA7660FC-ND ***NEW!***	119.00	—	—
Accelerometer Development Board for MMA7361L							LFSTBEB7361-ND ***NEW!***	75.00	—	—
Accelerometer Development Board for MMA7660							LFSTBEB7660-ND ***NEW!***	75.00	—	—
Accelerometer Development Board for MMA7455L							D3172MMA7455L-ND ***NEW!***	59.00	—	—
Accelerometer Development Board for MMA7660FC							D3965MMA7660FC-ND ***NEW!***	49.00	—	—
ZStar USB Board							D3965USB-ND ***NEW!***	49.00	—	—
Accelerometer Development Board MMA8450							LFSTBEB8450-ND ***NEW!***	75.00	—	—
Development Board, Proto Board for Accelerometer							LFSTBPROTO-ND ***NEW!***	37.19	—	—
Reference Design Kits										
Triax Reference Design 3-Axis for MMA2260D ±1.5g with MMA1260D							RD1986MMA2260D-ND	65.00	—	—
Evaluation Board for MMA7455L							RD3172MMA7455L-ND◆ ***NEW!***	99.00	—	—
Accelerometer Development Board MMA8450							RD3924MMA8450Q-ND◆ ***NEW!***	99.00	—	—

***** The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above $V_{DD}/2$ and for negative acceleration the output will decrease below $V_{DD}/2$. ◆ ***RoHS Compliant*** § Cut Tape ∆ Tape and Reel † V_{DD} = 3.3V

Precision Temperature Compensated Pressure Sensors

Operating Temperature Range: -40°C ~ 125°C

Dim. in mm

Fig. 1

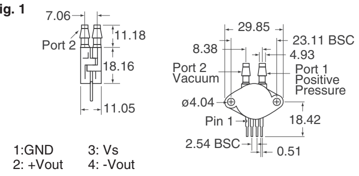

Fig. 2

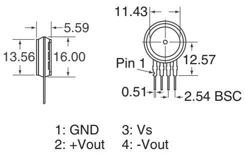

Fig. 3

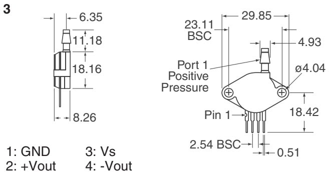

Fig. 4

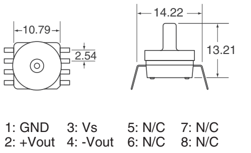

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	10	25
Unamplified Uncompensated Pressure Sensors											
1	0 ~ 1.45 psi	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	7.58	7.16	6.74
2	0 ~ 1.45 psi	Differential	35mV	344-15	3.0	1.0ms	—	MPX10D-ND	7.58	7.16	6.74
3	0 ~ 1.45 psi	Gauge	35mV	344B-01	3.0	1.0ms	—	MPX10GP-ND	7.58	7.16	6.74
4	0 ~ 1.45 psi	Gauge	35mV	482C-03	3.0	1.0ms	—	MPXV10GC7U-ND	7.83	7.40	6.97
1	0 ~ 1.45 psi	Differential	55mV	344C-01	3.0	1.0ms	—	MPX12DP-ND	7.58	7.16	6.74
3	0 ~ 1.45 psi	Gauge	55mV	344B-01	3.0	1.0ms	—	MPX12GP-ND	7.58	7.16	6.74
1	0 ~ 7.25 psi	Differential	60mV	344C-01	3.0	1.0ms	—	MPX53DP-ND	7.58	7.16	6.74
Unamplified Temperature Compensated Pressure Sensors											
2	0 ~ 1.45 psi	Differential	25mV	344-15	10.0	1.0ms	0 ~ 85	MPX2010D-ND	10.61	10.03	9.44
1	0 ~ 1.45 psi	Differential	25mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2010DP-ND	10.61	10.03	9.44
3	0 ~ 1.45 psi	Gauge	25mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2010GP-ND	10.61	10.03	9.44

***** Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. § Cut Tape ∆ Tape and Reel *(Continued)*

Sensors

Precision Temperature Compensated Pressure Sensors *(Cont.)*

Dim. in mm

Fig. 5

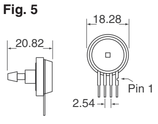

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 6

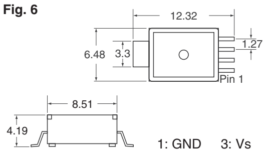

1: GND 3: Vs
2: Vout 4: -Vout

Fig. 7

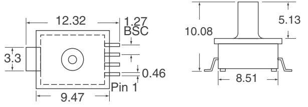

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 8

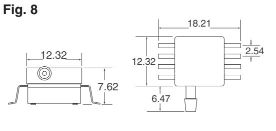

1: GND 3: Vs 5: N/C 7: N/C
2: +Vout 4: -Vout 6: N/C 8: N/C

Fig. 9

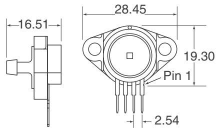

Fig. 10

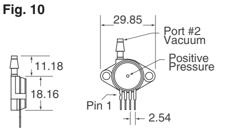

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 11

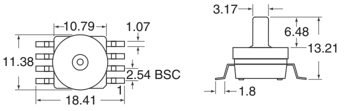

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 12

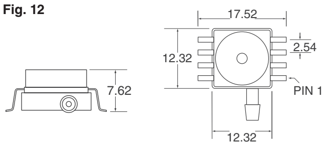

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 13

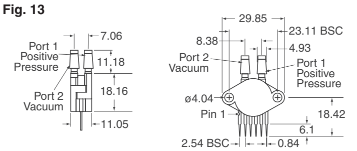

1: Vout 2: GND 3: Vs
4: NC 5: NC 6: NC

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	10	25
5	0 ~ 1.45 psi	Gauge	25mV	344E-01	10.0	1.0ms	0 ~ 85	MPX2010GS-ND	10.61	10.03	9.44
6	0 ~ 1.45 psi	Differential	25mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2010D-ND	6.82	6.45	6.07
7	0 ~ 1.45 psi	Gauge	25mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2010GS-ND	6.82	6.45	6.07
8	0 ~ 1.45 psi	Gauge	25mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2010GP-ND	9.49	8.96	8.44
3	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2050GP-ND	10.61	10.03	9.44
1	0 ~ 7.25 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2053DP-ND	10.61	10.03	9.44
3	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2053GP-ND	10.61	10.03	9.44
6	0 ~ 7.25 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2053D-ND	6.82	6.45	6.07
7	0 ~ 7.25 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2053GS-ND	6.82	6.45	6.07
8	0 ~ 7.25 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2053GP-ND	9.49	8.96	8.44
2	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2100A-ND	10.61	10.03	9.44
3	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100AP-ND	10.61	10.03	9.44
2	0 ~ 14.5 psi	Differential	40mV	344-01	10.0	1.0ms	0 ~ 85	MPX2100D-ND	10.61	10.03	9.44
1	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2100DP-ND	10.61	10.03	9.44
3	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100GP-ND	10.61	10.03	9.44
2	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2102A-ND	10.61	10.03	9.44
3	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102AP-ND	10.61	10.03	9.44
9	0 ~ 14.5 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2102ASX-ND	10.61	10.03	9.44
1	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2102DP-ND	10.61	10.03	9.44
3	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102GP-ND	10.61	10.03	9.44
10	0 ~ 14.5 psi	Gauge	40mV	344D-01	10.0	1.0ms	0 ~ 85	MPX2102GVP-ND	10.61	10.03	9.44
8	0 ~ 14.5 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2102GP-ND	9.49	8.96	8.44
6	0 ~ 14.5 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102A-ND	6.82	6.45	6.07
7	0 ~ 14.5 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102AS-ND	6.82	6.45	6.07
7	0 ~ 14.5 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102GS-ND	6.82	6.45	6.07
2	0 ~ 29 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200A-ND	10.61	10.03	9.44
3	0 ~ 29 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200AP-ND	10.61	10.03	9.44
2	0 ~ 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200D-ND	10.61	10.03	9.44
1	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2200DP-ND	10.61	10.03	9.44
8	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200GP-ND	10.61	10.03	9.44
9	0 ~ 29 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2202ASX-ND	10.61	10.03	9.44
1	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2202DP-ND	10.61	10.03	9.44
3	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2202GP-ND	10.61	10.03	9.44
6	0 ~ 29 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202A-ND	6.82	6.45	6.07
7	0 ~ 29 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202AS-ND	6.82	6.45	6.07
6	0 ~ 29 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202D-ND	6.82	6.45	6.07
7	0 ~ 29 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202GS-ND	6.82	6.45	6.07
8	0 ~ 29 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2202GP-ND	9.49	8.96	8.44
Amplified Temperature Compensated Pressure Sensors											
11	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	0 ~ 85	MPXV5004GC6U-ND	12.32	11.64	10.96
11	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1CT-ND§	13.33	11.90	11.19
11	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1TR-NDΔ	684.72/100		
4	0 ~ 0.57 psi	Gauge	4.9V	482C-03	5.0	—	10 ~ 60	MPXV5004GC7U-ND	12.32	11.64	10.96
8	0 ~ 0.57 psi	Gauge	4.9V	1369-01	5.0	—	10 ~ 60	MPXV5004GP-ND	12.13	11.46	10.79
12	0 ~ 0.57 psi	Gauge	4.9V	1368-01	5.0	—	10 ~ 60	MPXV5004GVP-ND	12.13	11.46	10.79
4	0 ~ 0.87 psi	Gauge	4.6V	482C-03	5.0	—	10 ~ 60	MPXV4006GC7U-ND	12.32	11.64	10.96
8	0 ~ 0.87 psi	Gauge	4.6V	1369-01	5.0	—	10 ~ 60	MPXV4006GP-ND	12.13	11.46	10.79
13	0 ~ 1.45 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5010DP-ND	14.00	13.22	12.45
14	0 ~ 1.45 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5010GP-ND	14.00	13.22	12.45

* Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. § Cut Tape Δ Tape and Reel *(Continued)*

Sensors

Precision Temperature Compensated Pressure Sensors *(Cont.)*

Dim. in mm

Fig. 14

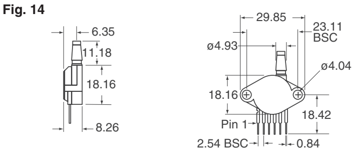

1: Vout 3: Vcc 5: V2
2: GND 4: V1 6: Vex

Fig. 15

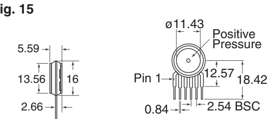

1: Vout 3: Vs 5: NC
2: GND 4: NC 6: NC

Fig. 16

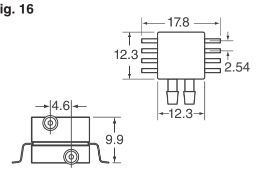

Fig. 17

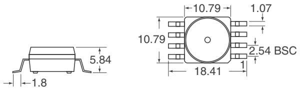

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	10	25
8	0 ~ 1.45 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5010GP-ND	12.13	11.46	10.79
15	0 ~ 7.25 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5050D-ND	14.00	13.22	12.45
14	0 ~ 7.25 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5050DP-ND	14.00	13.22	12.45
14	0 ~ 7.25 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5050GP-ND	14.00	13.22	12.45
8	0 ~ 7.25 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5050GP-ND	12.13	11.46	10.79
15	0 ~ 11.6 psi	Differential	4.3V	867-08	5.1	—	-40 ~ 105	MPX4080D-ND	14.00	13.22	12.45
14	2.2 ~ 16.7 psi	Absolute	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100AP-ND	14.00	13.22	12.45
15	0 ~ 14.5 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100D-ND	14.00	13.22	12.45
14	0 ~ 14.5 psi	Gauge	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100GP-ND	14.00	13.22	12.45
16	2.2 ~ 16.7 psi	Absolute	4.7V	1351-01	5.0	1.0ms	0 ~ 85	MPXV5100DP-ND	12.15	11.48	10.80
11	0 ~ 14.5 psi	Gauge	4.7V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5100GC6U-ND	12.56	11.87	11.17
4	2.2 ~ 16.7 psi	Absolute	4.7V	482C-03	5.0	1.0ms	0 ~ 85	MPXV5100GC7U-ND	12.56	11.87	11.17
15	0 ~ 36.3 psi	Differential	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250D-ND	14.00	13.22	12.45
13	0 ~ 36.3 psi	Differential	4.7V	867C-05	5.0	1.0ms	-40 ~ 125	MPX4250DP-ND	14.00	13.22	12.45
15	0 ~ 72.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5500D-ND	14.00	13.22	12.45
15	0 ~ 101.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700D-ND	14.00	13.22	12.45
13	0 ~ 101.5 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5700DP-ND	14.00	13.22	12.45
14	0 ~ 101.5 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5700GP-ND	14.00	13.22	12.45
15	0 ~ 150 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5999D-ND	14.00	13.22	12.45
15	2.2 ~ 16.7 psi	Absolute	4.6V	867-08	5.1	1.0ms	-40 ~ 125	MPX4115A-ND	14.00	13.22	12.45
14	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4115AP-ND	14.00	13.22	12.45
17	2.2 ~ 16.7 psi	Absolute	4.6V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4115A6U-ND	13.75	12.50	11.57
11	2.2 ~ 16.7 psi	Absolute	4.6V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4115AC6U-ND	14.21	12.92	11.96
15	2.2 ~ 16.7 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100A-ND	14.00	13.22	12.45
8	2.2 ~ 16.7 psi	Absolute	4.8V	1369-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115AP-ND	12.56	11.87	11.17
17	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXA6115A6U-ND	12.15	11.48	10.80
11	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXA6115AC6U-ND	12.56	11.87	11.17
17	2.2 ~ 16.7 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115A6U-ND	14.21	12.92	11.96
11	2.2 ~ 16.7 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115AC6U-ND	14.65	13.32	12.33
18	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1CT-ND§	19.50	17.63	15.00
18	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1TR-NDΔ		5367.58/1,000	
14	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPXA4115AP-ND	13.75	12.50	11.57
17	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115A6U-ND	12.56	11.87	11.17
11	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115AC6U-ND	12.95	12.23	11.51
18	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXHZ6115A6U-ND	10.03	9.48	8.92
19	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-03	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6U-ND	10.44	9.86	9.28
18	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6U-ND	9.66	9.13	8.59
19	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6T1CT-ND§	11.06	9.88	9.29
19	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6U-ND	10.24	9.68	9.11
17	2.9 ~ 15.2 psi	Absolute	4.9V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100A6U-ND	14.21	12.92	11.96
11	2.9 ~ 15.2 psi	Absolute	4.9V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100AC6U-ND	12.04	10.95	10.13
14	2.9 ~ 15.2 psi	Absolute	4.8V	867B-04	5.1	1.0ms	0 ~ 85	MPX4100AP-ND	15.84	14.40	13.32
17	2.9 ~ 15.2 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4100A6U-ND	13.75	12.50	11.57
11	2.9 ~ 15.2 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4100AC6U-ND	14.21	12.92	11.96
15	2.9 ~ 15.2 psi	Absolute	4.9V	867-08	5.0	1.0ms	-40 ~ 125	MPX4100A-ND	14.00	13.22	12.45
15	2.9 ~ 36.3 psi	Absolute	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250A-ND	14.00	13.22	12.45
14	2.9 ~ 36.3 psi	Absolute	4.7V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4250AP-ND	14.00	13.22	12.45
17	2.9 ~ 36.3 psi	Absolute	4.7V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4250A6U-ND	13.75	12.50	11.57
11	2.9 ~ 36.3 psi	Absolute	4.7V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4250AC6U-ND	14.21	12.92	11.96
18	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1CT-ND§	10.44	9.33	8.77
18	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1TR-NDΔ		5367.58/1,000	
18	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6U-ND	9.66	9.13	8.59
14	2.18 ~ 101.5 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700A-ND	14.00	13.22	12.45
18	3.0 ~ 36 psi	Absolute	4.7V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6250A6U-ND	9.86	9.31	8.77
19	3.0 ~ 36 psi	Absolute	4.7V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6250AC6U-ND	9.99	9.44	8.89
18	3.0 ~ 42 psi	Absolute	4.6V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6300A6U-ND	9.86	9.31	8.77
19	3.0 ~ 42 psi	Absolute	4.6V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6300AC6U-ND	9.99	9.44	8.89
19	3.0 ~ 58 psi	Absolute	4.8V	1317A-03	5.0	1.0ms	-40 ~ 125	MPXH6400AC6U-ND	9.99	9.44	8.89
19	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1CT-ND§	10.81	9.65	9.08
19	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1TR-NDΔ		1665.35/300	
11	-16.7 ~ 2.2 psi	Differential	4.6V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV4115VC6U-ND	14.21	12.92	11.96
11	-16.7 ~ 2.2 psi	Differential	4.4V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV6115VC6U-ND	12.56	11.87	11.17
11	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1CT-ND§	13.58	12.13	11.40
11	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1TR-NDΔ		697.68/100	
18	2.2 ~ 18.9 psi	Absolute	4.8V	1317-04	5.0	1.0ms	-40 ~ 125	MPXHZ6130A6U-ND	10.03	9.48	8.92

* Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. § Cut Tape Δ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Sensors

Precision Temperature Compensated Pressure Sensors *(Cont.)*

Dim. in mm

Fig. 18

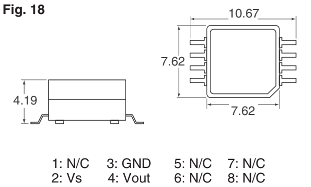

Fig. 19

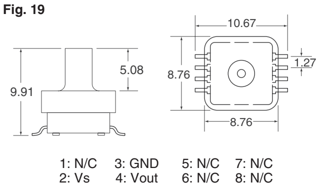

Fig. 20

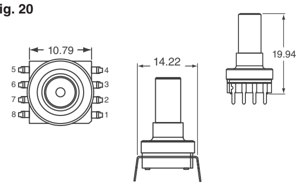

Fig. 21

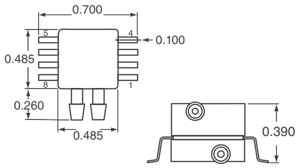

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	10	25
18	2.2 ~ 16.7 psi	Absolute	2.8V	1317-04	5.0	1.0ms	-40 ~ 125	MP3H6115A6U-ND	9.66	9.13	8.59
19	2.2 ~ 16.7 psi	Absolute	2.8V	1317A-03	5.0	1.0ms	-40 ~ 125	MP3H6115AC6U-ND	9.99	9.44	8.89
20	0.57 psi	Gauge	4.5V	1560-03	5.0	1.0ms	-40 ~ 125	MPVZ5004GW7U-ND	12.64	11.94	11.24
20	1.45 psi	Gauge	4.5V	1560-03	5.0	1.0ms	-40 ~ 125	MPVZ5010GW7U-ND	12.64	11.94	11.24
21	0.57 psi	Differential	4.5V	1351-01	5.0	1.0ms	-40 ~ 125	MPXV5004DP-ND	12.13	11.46	10.79
4	1.45 psi	Gauge	4.5V	482C-03	5.0	1.0ms	-40 ~ 125	MPXV5010GC7U-ND	12.32	11.64	10.96
21	0.3 psi	Differential	4.5V	1351-01	5.0	1.0ms	-40 ~ 125	MPXV7002DP-ND	12.13	11.46	10.79
21	1 psi	Differential	4.5V	1351-01	5.0	1.0ms	-40 ~ 125	MPXV7007DP-ND	12.13	11.46	10.79
21	3.6 psi	Differential	4.5V	1351-01	5.0	1.0ms	-40 ~ 125	MPXV7025DP-ND	12.13	11.46	10.79
4	3.6 psi	Gauge	4.5V	482C-03	5.0	1.0ms	-40 ~ 125	MPXV7025GC6U-ND	12.32	11.64	10.96

* Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. § Cut Tape Δ Tape and Reel

NEW! Digital Barometric Pressure Sensors

Supply Voltage Typical (V)	Package Peak Temperature (°C)	Ambient Operating Temperature (°C)	Pressure Measurement Type	Pressure Range Min./Max. (kPa)	Pressure Rating Maximum (kPa)	Pressure Rating Maximum (psi)	Supply Voltage Min./Max. (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Freescale Part No.
3.3	245	-40 ~ 105	Absolute	50 ~ 115	115	16.7	2.4 ~ 5.5	MPL115A1T1CT-ND	7.31	6.53	6.14	MPL115A1T1
3.3	245	-40 ~ 105	Absolute	50 ~ 115	115	16.7	2.4 ~ 5.5	MPL115A1T1TR-NDΔ	3758.40/1,000			MPL115A1T1
3.3	245	-40 ~ 105	Absolute	50 ~ 115	115	16.7	2.4 ~ 5.5	MPL115A2T1CT-ND	7.31	6.53	6.14	MPL115A2T1
3.3	245	-40 ~ 105	Absolute	50 ~ 115	115	16.7	2.4 ~ 5.5	MPL115A2T1TR-NDΔ	3758.40/1,000			MPL115A2T1
Evaluation board that demonstrates the SPI communication protocol								KITMPL115A1SPI-ND	27.00	25.50	24.00	KITMPL115A1SPI
Evaluation board that demonstrates the I²C communication protocol								KITMPL115A2I2C-ND	27.00	25.50	24.00	KITMPL115A2I2C
Evaluation Kit for MPL115A1								KITMPL115A1EVB-ND	49.00	—	—	KITMPL115A1EVB

Δ Tape and Reel

Dim. in mm

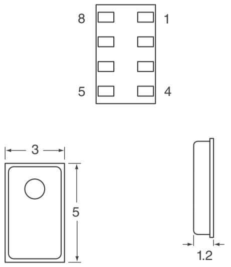

Proximity Sensors and Kits

Dim. in mm

Fig. 1

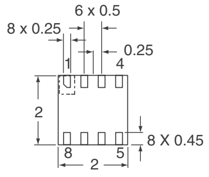

Fig. 2

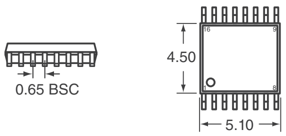

Fig. 3

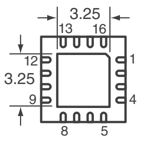

Fig. 4 ***NEW!***

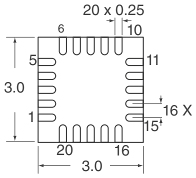

Fig.	(VDC)	Supply Current (A)	Supply Temperature (°C)	Operating Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Freescale Part No.
1	1.8	150µA	-40 ~ 85	8-DFN	MPR031EPR2CT-ND	.98	.83	.79	MPR031EPR2TR-ND	3,000	496.80/M	MPR031EPR2
1	1.8	150µA	-40 ~ 85	8-DFN	MPR032EPR2CT-ND	.98	.83	.79	MPR032EPR2TR-ND	3,000	496.80/M	MPR032EPR2
2	1.8 ~ 3.6	150µA	-40 ~ 85	16-TSSOP	MPR083EJ-ND†	2.43	2.16	1.35	—	—	—	MPR083EJ
2	1.8 ~ 3.6	150µA	-40 ~ 85	16-TSSOP	MPR084EJ-ND†	2.43	2.16	1.35	—	—	—	MPR084EJ
3	1.8 ~ 3.6	150µA	-40 ~ 85	16-QFN	MPR083Q-ND†	2.43	2.16	1.35	—	—	—	MPR083Q
3	1.8 ~ 3.6	150µA	-40 ~ 85	16-QFN	MPR084Q-ND†	2.43	2.16	1.35	—	—	—	MPR084Q
4	1.71 ~ 3.6	29µA	1.71 ~ 3.6	20-QFN	MPR121QR2CT-ND ***NEW!***	1.71	1.44	1.38	MPR121QR2TR-ND ***NEW!***	1,000	870.00	MPR121QR2
Demo Kit for MC34940E					DEMO1985MC34940E-ND	83.94	—	—	—	—	—	DEMO1985MC34940E
Altitude Pressure Demo Board					DEMOAPEXSENSOR-ND ***NEW!***	135.00	—	—	—	—	—	DEMOAPEXSENSOR
Demo Kit for MPR083					DEMOMPR083-ND	25.00	—	—	—	—	—	DEMOMPR083
Demo Board for MC33941					DEMOMC33941-ND	159.38	—	—	—	—	—	DEMOMC33941
Demo Board for MPR031					DEMOMPR031-ND	25.00	—	—	—	—	—	DEMOMPR031
Evaluation Kit for MPR03X					KITMPR03XEVM-ND	99.00	—	—	—	—	—	KITMPR03XEVM
Evaluation Kit for MPR083					KITMPR083EVM-ND	99.00	—	—	—	—	—	KITMPR083EVM
Evaluation Kit for MPR084					KITMPR084EVM-ND	99.00	—	—	—	—	—	KITMPR084EVM
Evaluation Kit for MPR121					KITMPR121EVM-ND ***NEW!***	99.00	—	—	—	—	—	KITMPR121EVM
Sensor Toolbox Starter Kit					KITSTARTER1EVM-ND ***NEW!***	299.95	—	—	—	—	—	KITSTARTER1EVM

† Bulk

ALL SENSORS Pressure Sensors

Fig.	Pressure	Pressure Type	Output	Supply (VDC)	Compensated Temperature	Operating Temperature	Digi-Key Part No.	Price Each 1	25	100	All Sensors Part No.
Amplified Low Pressure											
1	±1	mbar	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1011-ND	135.00	119.70	108.00	1 MBAR-D-4V
	±1	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1012-ND◆	110.00	77.00	68.75	1 INCH-D-4V
	0-1	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1013-ND◆	120.00	84.00	75.00	1 INCH-G-4V
	±5	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1014-ND◆	110.00	77.00	68.75	5 INCH-D-4V
	0-5	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1015-ND	110.00	77.00	68.75	5 INCH-G-4V
	±10	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1016-ND◆	110.00	77.00	68.75	10 INCH-D-4V
	0-10	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1017-ND	82.50	73.15	66.00	10 INCH-G-4V
	±30	In H_2O	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1020-ND	82.50	73.15	66.00	30 INCH-D-4V
Amplified Middle Pressure											
1	0-0.3	PSIG	4V	3 ~ 7	5°C ~ 50°C	-25°C ~ 85°C	442-1023-ND	75.00	66.50	60.00	0.3 PSI-G-4V
Barometric Pressure											
1	600-1100	mbar	4V	4.5 ~ 5.5	5°C ~ 50°C	-40°C ~ 125°C	442-1089-ND◆	100.00	70.00	62.50	BARO-A-4V
2	600-1100	mbar	Digital/Serial	7	-40°C ~ 125°C	-40°C ~ 125°C	442-1098-ND	405.00	—	—	BARO-DO-MIL
3A	600-1100	mbar	4.5 ~ 5.5V	4.5 ~ 75.5	-25°C ~ 85°C	-25°C ~ 85°C	442-1093-ND◆	180.00	126.00	112.50	BARO-A-4V-MINI-PRIME
Millivolt Output C-Grade Pressure - RoHS Compliant											
4	0-1	PSID	18mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1030-ND	50.00	35.00	31.25	1 PSI-D-CGRADE-MV
Millivolt Output H-Grade Pressure - RoHS Compliant											
4	0-1	PSID	18mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1033-ND	56.00	39.20	35.00	1 PSI-D-HGRADE-MV
	0-5	PSID	60mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1034-ND	44.00	30.80	27.50	5 PSI-D-HGRADE-MV
	0-15	PSID	90mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1035-ND	44.00	30.80	27.50	15 PSI-D-HGRADE-MV
Millivolt Output Low Pressure											
4	0-1	In H_2O	10mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1037-ND◆	80.00	56.00	50.00	1 INCH-D-MV
	0-5	In H_2O	20mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1038-ND	74.00	51.80	46.25	5 INCH-D-MV
	0-10	In H_2O	20mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1039-ND◆	74.00	51.80	46.25	10 INCH-D-MV
	0-20	In H_2O	20mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1040-ND	55.50	49.21	44.40	20 INCH-D-MV
	0-30	In H_2O	20mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1041-ND◆	74.00	51.80	46.25	30 INCH-D-MV
Millivolt Output Prime Grade Pressure											
4	0-0.3	PSID	20mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1042-ND	64.00	44.80	40.00	0.3 PSI-D-PRIME-MV
Miniature Basic Offset Compensated Pressure											
3B	0-20	In H_2O	15 ~ 45mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1054-ND	37.50	33.25	30.00	20 INCH-G-BASIC
	0-5	In H_2O	15 ~ 30mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1049-ND◆	37.50	33.25	30.00	5 INCH-D1-BASIC
	0-10	In H_2O	15 ~ 45mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1052-ND	37.50	33.25	30.00	10 INCH-D1-BASIC
	0-5	In H_2O	15 ~ 30mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1050-ND◆	37.50	33.25	30.00	5 INCH-D2-BASIC
	0-10	In H_2O	15 ~ 45mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1053-ND	37.50	33.25	30.00	10 INCH-D2-BASIC
	0-20	In H_2O	15 ~ 45mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1056-ND	37.50	33.25	30.00	20 INCH-D2-BASIC
	0-30	In H_2O	15 ~ 45mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1059-ND	37.50	33.25	30.00	30 INCH-D2-BASIC
Miniature Low Pressure											
3B	0-5	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1077-ND	52.50	46.55	42.00	5 INCH-G-MV-MINI
	0-10	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1080-ND	52.50	46.55	42.00	10 INCH-G-MV-MINI
	0-20	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1084-ND	52.50	46.55	42.00	20 INCH-D1-MV-MINI
	0-30	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1087-ND	52.50	46.55	42.00	30 INCH-D1-MV-MINI
	0-5	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1079-ND	52.50	46.55	42.00	5 INCH-D2-MV-MINI
	0-10	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1082-ND	52.50	46.55	42.00	10 INCH-D2-MV-MINI
	0-20	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1085-ND	52.50	46.55	42.00	20 INCH-D2-MV-MINI
	0-30	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1088-ND	52.50	46.55	42.00	30 INCH-D2-MV-MINI
Miniature H-Grade Pressure											
5	0-4	In H_2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1060-ND	45.00	39.90	36.00	4 INCH-G-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1063-ND	45.00	39.90	36.00	0.3 PSI-G-HGRADE-MINI
	0-10	In H_2O	19 ~ 21mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1066-ND	45.00	39.90	36.00	10 INCH-G-HGRADE-MINI
	0-1	PSIG	17.82 ~ 18.18mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1069-ND	45.00	39.90	36.00	1 PSI-G-HGRADE-MINI
	0-5	PSIG	59.4 ~ 60.6mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1072-ND	37.50	33.25	30.00	5 PSI-G-HGRADE-MINI
	0-15	PSIA	89.1 ~ 90.9mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1075-ND◆	37.50	33.25	30.00	15 PSI-A-HGRADE-MINI
6	0-4	In H_2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1061-ND	45.00	39.90	36.00	4 INCH-GF-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1064-ND◆	60.00	42.00	37.50	0.3 PSI-GF-HGRADE-MINI
	0-10	In H_2O	19 ~ 21mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1067-ND◆	45.00	39.90	36.00	10 INCH-GF-HGRADE-MINI
7	0-1	PSID	17.82 ~ 18.18mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1071-ND	45.00	39.90	36.00	1 PSI-D-HGRADE-MINI

◆ ***RoHS Compliant***

Fig. 1

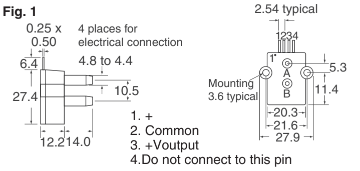

Fig. 2

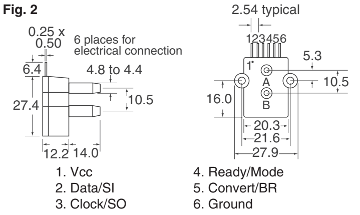

Fig. 3

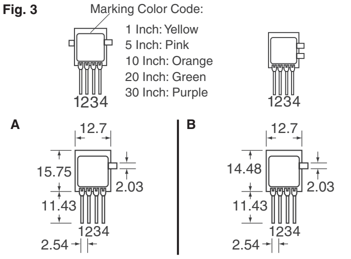

Fig. 4

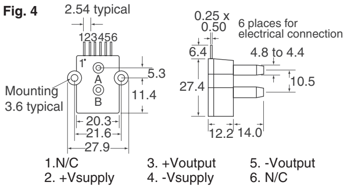

Fig. 5

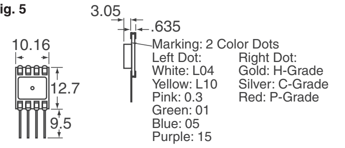

Fig. 6 — Single Pressure Port

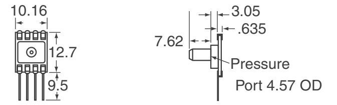

Fig. 7 — Dual Pressure Ports

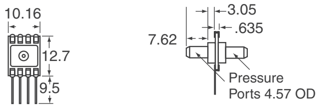

CUI INC Current Sensor

The SCD series current sensors are PC board mounted, Hall effect, open-loop devices which output a voltage equivalent to the magnitude of current sensed.

Capable of detecting DC current and AC currents where ± input currents are represented as a + voltage only.

Pin Assignment

Pin No.	Pin Name
1	+5V
2	NC
3	Output
4	0V
5	Input (+)
6	Input (-)

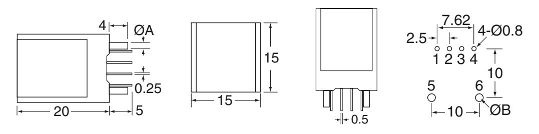

Rated Current (A)	Output Voltage (V)	Supply Voltage (V)	Input Current Polarity	Response	Operating Temperature	Mounting Hole Dimensions — mm øA	øB	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
±3	4.5/0.5	5	± Bipolar	3µS typical	-10°C ~ 75°C	0.6	1.1	102-1055-ND◆	26.03	20.82	17.70	SCD03PUR
±20	4.5/0.5	5	± Bipolar	3µS typical	-10°C ~ 75°C	1.7	2.2	102-1059-ND◆	26.03	20.82	17.70	SCD20PUR
3	4.5	5	+DC only	3µS typical	-10°C ~ 75°C	0.6	1.1	102-1050-ND◆	26.03	20.82	17.70	SCD03PUN
10	4.5	5	+DC only	3µS typical	-10°C ~ 75°C	1.1	1.6	102-1052-ND	26.03	20.82	17.70	SCD10PUN
15	4.5	5	+DC only	3µS typical	-10°C ~ 75°C	1.4	1.9	102-1053-ND◆	26.03	20.82	17.70	SCD15PUN
20	4.5	5	+DC only	3µS typical	-10°C ~ 75°C	1.7	2.2	102-1054-ND◆	26.03	20.82	17.70	SCD20PUN

◆ ***RoHS Compliant***

LEM Closed/Open Transducers

LTS xx-NP/LTSR xx-NP: Closed loop (compensated) multi-range current transducer using the Hall effect, unipolar voltage supply, compact design for PCB mounting, isolated plastic case recognized according to UL94-VO, incorporated measuring resistance, and extended measuring range.

LA 20-PB: Closed loop (compensated) current transducer using the Hall effect, voltage output, and printed circuit board mounting.

LAH 25-NP, LAH 50-P, LAH 100-P, LA 55-P and LA 100-P: Closed loop (compensated) multi-range current transducer using the Hall effect, printed circuit board mounting, insulated plastic case recognized according to UL94-VO.

LA 150-P/ LAX 100-NP: Closed loop (compensated) current transducer using the Hall effect, and printed circuit board mounting.

CAS/CASR-xx-NP: Closed loop (compensated) multi-range current transducers. Compact Fluxgate based current transducer single supplied (+5V). Three primary pins. (CASR = with reference access)

CKSR-xx-NP: Closed loop (compensated) multi-range current transducers. Compact Fluxgate based current transducer single supplied (+5V) with reference access. Four primary pins.

LV xx-P: Closed loop (compensated) voltage transducer using the Hall effect, and insulated plastic case recognized according to UL94-VO.

HXS xx-NP: Small packaged O/L, ASIC based with +5V supply. Four primary bus bars can be connected in parallel or series for flexibility.

HAIS xx-P: PCB mount with aperture. O/L ASIC based with +5V supply. Range is from 50A thru 400A. Programmable offset and gain. Wide temperature range of -40°C ~ 125°C.

HAIS xx-TP: PCB mount with primary bus bar. O/L ASIC based with +5V supply. Range is from 50A, 75A and 100A. Programmable offset and gain. Wide temperature range of -40°C ~ 125°C.

HX xx-P: Small, cost effective PCB mount package that ranges from 3A thru 50A. Isolated with DC/AC/Pulse measurements.

HTB xx-P: PCB mount with aperture. Small package O/L with range form 50A thru 400A. Isolated with DC/AC/Pulse measurements.

HTB xx-TP: PCB mount with primary bus bar. Small package O/L with range of 50A, 75A and 100A. Isolated DC/AC/Pulse measurements.

HAS xx-S: Panel mount O/L. Isolated and can measure DC/AC currents at range of 50A thru 600A. Measuring range to 3 times nominal.

HAS xx-P: PCB mount with aperture. Isolated and can measure DC/AC currents at range of 50A thru 600A. Measuring range to 3 times nominal.

HASS xx-S: Panel mount O/L ASIC based device that can measure DC/AC current at 50A thru 600A. Unipolar +5V supply with accuracy of 1%.

HMS xx-NP: Surface mount O/L ASIC device with +5V supply. Measuring range from 5A thru 25A.

TT xx-SD: Split core transducer for the electronic measurement of AC waveform currents, with galvanic isolation between the primary circuit (power) and the secondary circuit (measurement).

AT xxx B10: Split core transducer for the electronic measurement of AC waveform currents, with galvanic isolation between the primary circuit (power) and the secondary circuit (measurement).

APR xxx B10: Split core transducer for the electronic measurement of AC currents (all waveforms). Switch selectable measuring ranges.

DHR 100 C10/200 C420: The transducer for the electronic measurement of DC and distorted AC waveform currents.

Dim. in mm

Fig. 1

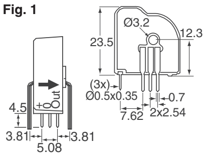

Fig. 2

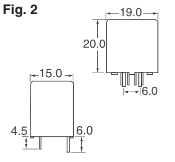

Fig. 3

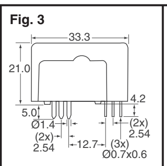

Fig. 4

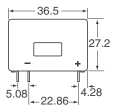

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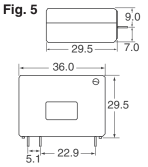

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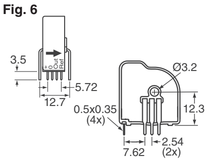

Fig. 7

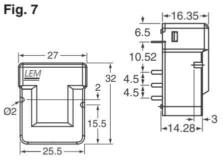

Fig. 8

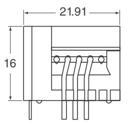

Fig. 9

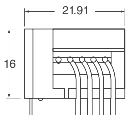

Fig. 10

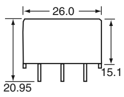

Fig. 11

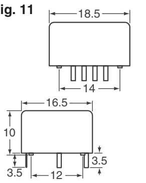

Fig. 12

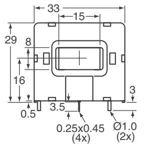

Fig. 13

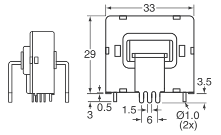

Fig. 14

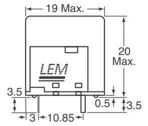

Fig. 15

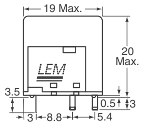

Fig. 16

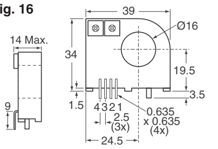

Fig. 17

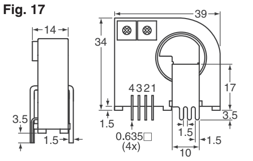

Fig. 18

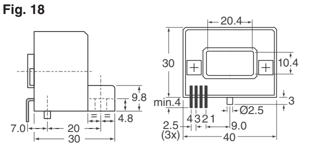

Fig. 19

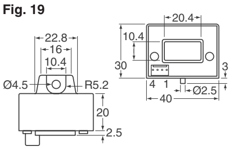

Fig. 20

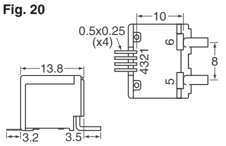

Fig. 21

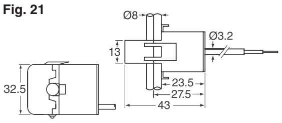

Fig. 22

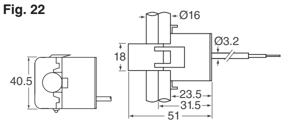

Fig. 23

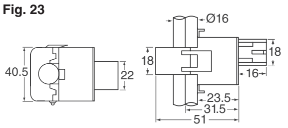

Fig. 24

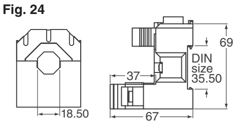

Fig. 25

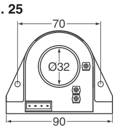

Fig.	Supply Voltage	Primary Nominal RMS Current	Secondary Nom. RMS Current/ Output Volt.	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
Closed Loop Current Transducers									
1	5V	6A	±2.5V	200	398-1000-ND	19.25	15.40	12.32	LTS 6-NP
	5V	15A	±2.5V	200	398-1001-ND	19.25	15.40	12.32	LTS 15-NP
	5V	25A	±2.5V	200	398-1002-ND	19.25	15.40	12.32	LTS 25-NP
2	±15V	20A	±4V	150	398-1006-ND	44.38	35.50	28.40	LA 20-PB
3	±12 ~ 15V	25A	25mA	200	398-1007-ND	25.50	20.40	16.32	LAH 25-NP
	±12 ~ 15V	50A	25mA	200	398-1008-ND	26.00	20.80	16.64	LAH 50-P
	±12 ~ 15V	100A	50mA	200	398-1009-ND	26.50	21.20	16.96	LAH 100-P
4	±12 ~ 15V	50A	50mA	200	398-1010-ND	25.00	20.00	16.00	LA 55-P
	±12 ~ 15V	100A	50mA	200	398-1011-ND	30.75	24.60	19.68	LA 100-P
5	±15V	150A	75mA	150	398-1012-ND	42.50	34.00	27.20	LA 150-P
6	5V	6A	2.5V	200	398-1021-5-ND	20.38	16.30	13.04	LTSR 6-NP
	5V	15A	2.5V	200	398-1022-5-ND	20.38	16.30	13.04	LTSR 15-NP
	5V	25A	2.5V	200	398-1023-5-ND	20.38	16.30	13.04	LTSR 25-NP
7	±11.4 ~ 15.75V	100A	50mA	300	398-1024-5-ND	25.38	20.30	16.24	LAX 100-NP
8	5V	6A	2.5V	300	398-1087-5-ND	20.38	16.30	13.04	CAS 6-NP
	5V	15A	2.5V	300	398-1088-5-ND	20.38	16.30	13.04	CAS 15-NP
	5V	25A	2.5V	300	398-1089-5-ND	20.38	16.30	13.04	CAS 25-NP
	5V	50A	2.5V	300	398-1090-5-ND	22.38	17.90	14.32	CAS 50-NP
	5V	6A	4V	300	398-1091-5-ND	21.38	17.10	13.68	CASR 6-NP
	5V	15A	4V	300	398-1092-5-ND	21.38	17.10	13.68	CASR 15-NP
	5V	25A	4V	300	398-1093-5-ND	21.38	17.10	13.68	CASR 25-NP
	5V	50A	4V	300	398-1094-5-ND	23.63	18.90	15.12	CASR 50-NP
9	5V	6A	4V	300	398-1095-5-ND	21.38	17.10	13.68	CKSR 6-NP
	5V	15A	4V	300	398-1096-5-ND	21.38	17.10	13.68	CKSR 15-NP
	5V	25A	4V	300	398-1097-5-ND	21.38	17.10	13.68	CKSR 25-NP
	5V	50A	4V	300	398-1098-5-ND	23.63	18.90	15.12	CKSR 50-NP
Closed Loop Voltage Transducers									
10	±12 ~ 15V	10mA	25mA	25	398-1019-ND	63.20	50.56	40.45	LV 25-P
	±12 ~ 15V	10mA	25mA	25	398-1020-ND	36.60	29.28	23.43	LV 20-P
Open Loop Current Transducers									
11	5V	20A	±2.5V	50	398-1025-5-ND	14.00	11.20	8.96	HXS 20-NP
	5V	50A	±2.5V	50	398-1026-5-ND	14.00	11.20	8.96	HXS 50-NP
12	5V	50A	±2.5V	50	398-1029-ND	25.50	20.40	16.32	HAIS 50-P
	5V	100A	±2.5V	50	398-1030-ND	25.50	20.40	16.32	HAIS 100-P
	5V	150A	±2.5V	50	398-1031-ND	25.50	20.40	16.32	HAIS 150-P
	5V	200A	±2.5V	50	398-1032-ND	25.50	20.40	16.32	HAIS 200-P
13	5V	50A	±2.5V	50	398-1027-ND	26.50	21.20	16.96	HAIS 50-TP
	5V	100A	±2.5V	50	398-1028-ND	26.50	21.20	16.96	HAIS 100-TP

Fig.	Supply Voltage	Primary Nominal RMS Current	Secondary Nom. RMS Current/ Output Volt.	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
14	±15V	3A	±4V	50	398-1034-ND	14.50	11.60	9.28	HX 03-P
	±15V	5A	±4V	50	398-1035-ND	14.50	11.60	9.28	HX 05-P
	±15V	10A	±4V	50	398-1036-ND	14.50	11.60	9.28	HX 10-P
	±15V	15A	±4V	50	398-1037-ND	14.50	11.60	9.28	HX 15-P
	±15V	20A	±4V	50	398-1038-ND	14.50	11.60	9.28	HX 20-P
15	±15V	50A	±4V	50	398-1039-ND	18.00	14.40	11.52	HX 50-P
16	±12 ~ 15V	200A	±4V	50	398-1041-ND	25.00	20.00	16.00	HTB 200-P
17	±12 ~ 15V	50A	±4V	50	398-1075-ND	25.88	20.70	16.56	HTB 50-TP
	±12 ~ 15V	100A	±4V	50	398-1077-ND	25.88	20.70	16.56	HTB 100-TP
18	±15V	50A	±4V	50	398-1049-ND	25.00	20.00	16.00	HAS 50-S
	±15V	100A	±4V	50	398-1050-ND	25.00	20.00	16.00	HAS 100-S
	±15V	200A	±4V	50	398-1051-ND	25.00	20.00	16.00	HAS 200-S
	±15V	300A	±4V	50	398-1052-ND	26.50	21.20	16.96	HAS 300-S
	±15V	400A	±4V	50	398-1053-ND	26.50	21.20	16.96	HAS 400-S
	±15V	500A	±4V	50	398-1054-ND	26.50	21.20	16.96	HAS 500-S
	±15V	600A	±4V	50	398-1055-ND	26.50	21.20	16.96	HAS 600-S
	±15V	300A	±4V	25	398-1045-ND	26.50	21.20	16.96	HAS 300-P
19	5V	50A	5V	50	398-1062-ND	26.00	20.80	16.64	HASS 50-S
	5V	100A	5V	50	398-1063-ND	26.00	20.80	16.64	HASS 100-S
	5V	200A	5V	50	398-1064-ND	26.00	20.80	16.64	HASS 200-S
	5V	300A	5V	50	398-1065-ND	27.50	22.00	17.60	HASS 300-S
	5V	400A	5V	50	398-1066-ND	27.50	22.00	17.60	HASS 400-S
	5V	500A	5V	50	398-1067-ND	27.50	22.00	17.60	HASS 500-S
	5V	600A	5V	50	398-1068-ND	27.50	22.00	17.60	HASS 600-S
20	5V	5A	5V	50	398-1058-ND	14.15	11.32	9.06	HMS 05-P
	5V	10A	5V	50	398-1059-ND	14.15	11.32	9.06	HMS 10-P
AC Split Core Current Transducers									
21	—	50A	16.66mA	50/60Hz	398-1078-ND	32.75	26.20	17.69	TT 50-SD
22	—	100A	33.33mA	50/60Hz	398-1079-ND	37.25	29.80	20.12	TT 100-SD
23	Self-Powered	5A	0 ~ 10V	50/60Hz	398-1080-ND	52.13	41.70	28.15	AT 5 B10
	Self-Powered	20A	0 ~ 10V	50/60Hz	398-1081-ND	81.50	65.20	44.01	AT 20 B10
	Self-Powered	50A	0 ~ 10V	50/60Hz	398-1082-ND	62.50	50.00	33.75	AT 50 B10
24	24 ±5%VDC	50A	0~5V/0~10V	30~6000Hz	398-1084-ND	201.50	161.20	108.81	APR 50 B10
AC/DC Current Transducers									
25	20 ~ 50VDC	100A	0 ~ 10V	20~6000Hz	398-1086-ND	209.38	167.50	113.07	DHR 100 C10
	20 ~ 50VDC	200A	4 ~ 20mA	20~6000Hz	398-1099-ND	209.38	167.50	134.00	DHR 200 C420

N

SMD Current Transducer

The Minisens transducer is an ultra flat SMD open loop integrated circuit current transducer based on the Hall effect principle. The IC is calibrated to minimize offset and temperature drifts. **Advantages:** • Low cost • Excellent Linearity

Maximum Current Range (A)	Supply Voltage	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,600	LEM USA Inc. Part No.
				1	10	25			
±100	5V	8-SOIC	398-1057-1-ND	4.40	3.52	2.82	398-1057-2-ND	2112.00/M	FHS 40-P/SP600

Evaluation Kits for FHS 40-P/S600

Description	Digi-Key Part No.	Price Each
Evaluation Kit with PCB for 0 ~ 30A range, 78A maximum	398-1069-ND	22.32
Evaluation Kit with PCB for 0 ~ 5A range, 16A maximum	398-1070-ND	22.32
Evaluation Kit with PCB for 0 ~ 5A range, 11A maximum	398-1071-ND	22.32
Evaluation Kit with PCB for 0 ~ 10A range, 10A maximum	398-1072-ND	22.32
Evaluation Kit with PCB for 0 ~ 15A range, 55A maximum	398-1073-ND	22.32
Evaluation Kit with PCB for 0 ~ 16A range, 30A maximum	398-1074-ND	22.32

Current Sensors

Digital Current Sensors

Micro Switch CS series digital current sensors provide a logic level output that changes from approximately Vcc ~ 0.4 volts when the sensed current exceeds the operate point. Each digital sensor will operate on AC or DC current, but the output will turn off at every zero crossing when sensing AC current. Housing material: PET polyester
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Operating Volts: 0.4V • Response time: 100µ Sec.

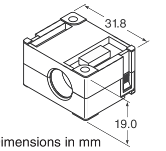

Dimensions in mm

Mounting	Supply Voltage	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
Screw	6 ~ 16	480-3249-ND	17.87	13.68	12.92	CSDA1BA
Connector	6 ~ 16	480-3250-ND	21.12	16.80	15.75	CSDA1DA

CSL Series Open Loop Current Sensors

CSL Series miniature, open-loop current sensors incorporate the SS490 Series miniature ratiometric linear Hall-Effect sensor (MRL™). The sensing element is encapsulated in a printed circuit board-mountable plastic package. The combination of sensor, flux collector and housing comprises the current sensor assembly. These sensors are ratiometric.
Specifications: • Operating Temperature Range: -25°C ~ 100°C • Supply Voltage: 4.5 ~ 10.5

Fig.	Current Range	Supply Voltage (Typical)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Honeywell Sensing Part No.
1	±60A	5	480-3251-ND	12.48	9.13	8.55	CSLS6B60
2	±100A	5	480-3252-ND	9.36	6.85	6.42	CSLT6B100
3	±1A	5	480-3253-ND	14.65	11.22	10.60	CSLW6B1
	±40mA	5	480-3255-ND	14.65	11.22	10.60	CSLW6B40M
	±200mA	5	480-3254-ND	14.65	11.22	10.60	CSLW6B200M

Dimensions in mm

Fig. 1

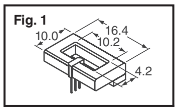

Fig. 2

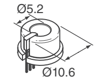

Fig. 3

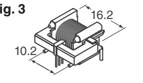

Current Sensors

Remote Current Indicators

CR Magnetics Remote Electrical Current Indicators provides an effective method for remote monitoring of electrical current. When the current exceeds the turn-on point of the sensing transformer, the LED illuminates to indicate the presence of current. **Specifications: • Indicating Range:** 2.5 ~ 100 Amps (1-Wire Pass) **• Minimum turn-on point:** 2.5 Amps **• Maximum Continuous Current:** 100 Amps

Fig.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	CR Magnetics Part No.
1	582-1036-ND	34.29	27.43	25.72	MODEL 18-600
2	582-1037-ND ***NEW!***	10.28	8.23	7.72	MODEL 19

Dimensions in Inch (mm)

Fig. 1

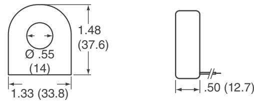

Fig. 2 *NEW!*

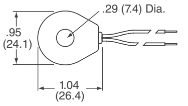

Current Indicators — CR2550 and PH Series

The CR2550 series remote current indicators are designed as a low cost method for providing a visual indication of electrical current flow.
Specifications: • 20 AAC Maximum, 600VAC Maximum Rating • 50 ~ 1kHz Bandwidth

Fig.	LED Color	Turn On Point (1 pass) AAC	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	CR Magnetics Part No.
1	Red	0.75	582-1003-ND	10.45	8.89	8.37	CR2550-R
	Amber	1.5	582-1000-ND ***NEW!***	10.77	9.16	8.62	CR2550-A
	Blue	1.0	582-1001-ND ***NEW!***	13.95	11.87	11.17	CR2550-B
	Green	1.5	582-1002-ND ***NEW!***	11.23	9.55	8.99	CR2550-G
2	Red	2.0	582-1041-ND ***NEW!***	6.55	5.57	5.24	PH-25-R
3	Amber	2.5	582-1042-ND ***NEW!***	9.18	7.81	7.35	PH-31-A
	Blue	2.0	582-1043-ND ***NEW!***	9.18	7.81	7.35	PH-31-B
	Green	2.5	582-1044-ND ***NEW!***	9.18	7.81	7.35	PH-31-G
	Red	2.0	582-1045-ND ***NEW!***	8.25	7.02	6.60	PH-31-R

Dimensions in Inch (mm)

Fig. 1

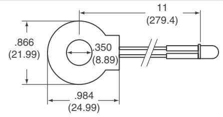

Fig. 2 *NEW!*

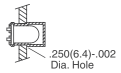

Fig. 3 *NEW!*

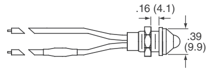

Transducers / Transmitters

CR4100 Series: Designed for applications where AC current waveforms are not purely sinusoidal. These devices are ideal in chopped wave and phase fired control systems.

CR4210 Series: Calibrated to provide a 0 ~ 5VDC and 0 ~ 10VDC signal that is proportional to the average RMS input AC current.

CR4200 Series: Produces a calibrated 4 ~ 20mADC signal that is proportional to the average RMS input AC current. The output signal is generated from a user supplied 24VDC power supply within the output current loop.

CR4400 Series: Designed to provide a DC output proportional to the AC current input.
CR5200 Series: Designed to provide a DC signal which is proportional to a DC sensed current. The ranges 2 ~ 10 Amp utilize an advanced Magnetic Modulator technology and the ranges 20 Amps and above utilize Hall Effect technology.
CR4500 Series: Designed for applications where AC voltage waveforms are not purely sinusoidal
CR5300 Series: Designed to provide an output DC signal that is proportional to the input DC voltage.
CR6600 Series: Designed to give a DC output that is proportional to an input frequency value.

Dimensions in Inch (mm)

Fig. 1

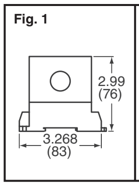

Fig. 2

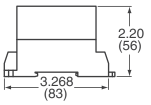

Fig. 3

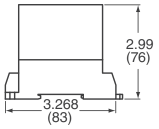

Fig. 4

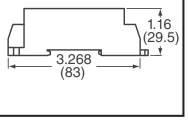

Fig.	Output Range	Input Range	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	CR Magnetics Part No.
True RMS AC Current Transducers							
1	0 ~ 5VDC	0 ~ 10AAC	582-1046-ND	191.27	153.02	143.45	CR4110-10
	0 ~ 5VDC	0 ~ 15AAC	582-1047-ND	191.27	153.02	143.45	CR4110-15
	0 ~ 5VDC	0 ~ 20AAC	582-1048-ND	191.27	153.02	143.45	CR4110-20
	0 ~ 5VDC	0 ~ 25AAC	582-1049-ND	191.27	153.03	143.45	CR4110-25
	4 ~ 20mADC	0 ~ 30AAC	582-1050-ND	211.60	169.28	158.70	CR4120-30
	4 ~ 20mADC	0 ~ 40AAC	582-1051-ND	211.60	169.28	158.70	CR4120-40
	4 ~ 20mADC	0 ~ 75AAC	582-1052-ND	211.60	169.28	158.70	CR4120-75
Self-Powered AC Current Transducer							
1	0 ~ 5VDC	0 ~ 50AAC	582-1053-ND	106.72	85.38	80.04	CR4210-50
Loop-Powered AC Current Transmitters							
1	4 ~ 20mADC	0 ~ 5AAC	582-1056-ND	95.08	76.06	71.32	CR4220-5
	4 ~ 20mADC	0 ~ 10AAC	582-1054-ND	95.08	76.06	71.32	CR4220-10
	4 ~ 20mADC	0 ~ 20AAC	582-1055-ND	95.08	76.06	71.32	CR4220-20
Average RMS AC Current Transducers							
1	0 ~ 5VDC	0 ~ 50AAC	582-1057-ND	91.48	73.18	68.62	CR4410-50
	4 ~ 20mADC	0 ~ 30AAC	582-1058-ND	102.91	82.33	77.19	CR4420-30
DC Current Transducers							
1	0 ~ 5VDC	0 ~ 2ADC	582-1060-ND	105.69	84.55	79.27	CR5210-2
1	0 ~ 5VDC	0 ~ 5ADC	582-1061-ND	105.69	84.55	79.27	CR5210-5
	0 ~ 5VDC	0 ~ 10ADC	582-1059-ND	105.69	84.55	79.27	CR5210-10
	4 ~ 20mADC	0 ~ 2ADC	582-1063-ND	125.82	100.66	94.37	CR5220-2
	4 ~ 20mADC	0 ~ 10ADC	582-1062-ND	125.82	100.66	94.37	CR5220-10
	4 ~ 20mADC	0 ~ 20ADC	582-1064-ND	125.82	100.66	94.37	CR5220-20
True RMS AC Voltage Transducers (Single Phase)							
2	0 ~ 5VDC	0 ~ 250ADC	582-1065-ND	191.27	153.02	143.45	CR4510-250
	4 ~ 20mADC	0 ~ 150ADC	582-1066-ND	211.39	169.11	158.54	CR4520-150
True RMS AC Voltage Transducer (3-Phase, 3-Wire)							
3	0 ~ 5VDC	0 ~ 150VAC	582-1067-ND	337.26	269.82	252.95	CR4550-150
Frequency Transducers							
3	0 ~ 5VDC	0 ~ 100Hz	582-1072-ND	109.34	87.47	82.01	CR6610-100
	4 ~ 20mADC	0 ~ 100Hz	582-1073-ND	121.23	96.98	90.93	CR6620-100
DC Voltage Transducers							
4	0 ~ 5VDC	0 ~ 50VDC	582-1069-ND	157.08	125.66	117.82	CR5310-50
	0 ~ 5VDC	0 ~ 200VDC	582-1068-ND	157.08	125.66	117.82	CR5310-200
	4 ~ 20mADC	0 ~ 50VDC	582-1071-ND	168.86	135.09	126.65	CR5320-50
	4 ~ 20mADC	0 ~ 100VDC	582-1070-ND	168.86	135.09	126.65	CR5320-100

(Continued)

High Ratio Transformers

The **CR8300** series of PCB Mounted Current Transformers and the **CR8400** series of Wire Lead Current Transformers are available in a wide range of sizes and materials to meet any AC current sensing needs.

Fig.	Ir†	Vmax RMS§	Te‡	Frequency	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
General Purpose Vertical PCB Current Transformers									
1	10	1.0	1613	20 ~ 1 kHz	582-1009-ND	6.23	5.30	4.99	CR8320-1600
	50	10.2	2046	20 ~ 1 kHz	582-1010-ND	8.16	6.94	6.53	CR8348-2000
	50	2.4	1009	20 ~ 1 kHz	582-1084-ND ***NEW!***	11.34	9.07	8.51	CR8349-1000-N
	75	10.3	1520	20 ~ 1 kHz	582-1012-ND	8.68	7.38	6.95	CR8349-1500
	200	14.6	2037	20 ~ 1 kHz	582-1014-ND	11.27	9.59	9.02	CR8350-2000
Revenue Grade Vertical PCB Current Transformers									
1	40	2.3	2510	20 ~ 1 kHz	582-1011-ND	9.09	7.73	7.28	CR8348-2500-N
	75	4.8	2512	20 ~ 1 kHz	582-1013-ND	10.18	8.66	8.15	CR8349-2500-N
	100	7.2	2511	20 ~ 1 kHz	582-1015-ND	14.25	12.12	11.40	CR8350-2500-N
General Purpose Current Transformer									
2	20	2.1	1012	20 ~ 1 kHz	582-1017-ND	8.16	6.94	6.53	CR8410-1000
Revenue Grade Current Transformer									
2	100	7.2	2511	20 ~ 1 kHz	582-1019-ND	17.52	14.90	14.02	CR8459-2000-N
Ground Fault Current Transformers									
2	4	0.3	1005	20 ~ 1 kHz	582-1016-ND	7.70	6.55	6.17	CR8401-1000-G
	20	2.0	1011	20 ~ 1 kHz	582-1018-ND	10.66	9.06	8.53	CR8420-1000-G
	50	3.8	1018	20 ~ 1 kHz	582-1085-ND ***NEW!***	10.12	8.10	7.59	CR8420-1000-PCB
NEW! Commercial and ANSI Metering Class Current Transformers NEW!									
3	100	—	—	50 ~ 400 Hz	582-1083-ND	20.39	16.31	15.29	CR2-SFT-101

† Maximum Input Current to be linearly sensed § Maximum Linear Voltage (Saturation) CT will develop at I_r
‡ Effective turns ratio including losses

Fig. 1

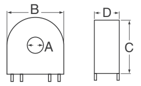

Part No. Prefix	Dimensions Inch (mm) A Min.	B Max.	C Max.	D Max.
CR8320	.22 (5.5)	.77 (19.6)	.79 (20)	.34 (8.6)
CR8348	.27 (6.9)	.93 (23.5)	.98 (25)	.43 (11)
CR8349	.35 (9)	1.02 (26)	1.10 (28)	.67 (17)
CR8350	.50 (12.8)	1.48 (37.5)	1.54 (39)	.55 (14)

Fig. 2

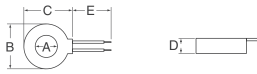

Part No. Prefix	Dimensions Inch (mm) A Min.	B Max.	C Max.	D Max.	E Typ.
CR8410	.35 (8.89)	.87 (22.10)	1.02 (25.91)	.35 (8.89)	2.87 (72.90)
CR8459	.75 (19.05)	1.89 (48.01)	2.36 (59.94)	.67 (17.02)	7.88 (200.15)
CR8401	.23 (5.84)	.71 (18.03)	.83 (21.08)	.31 (7.87)	.79 (20.07)
CR8420	.59 (14.9)	1.18 (30.0)	1.27 (32.2)	.35 (9.0)	3.94 (100.0)

Fig. 3 *NEW!*

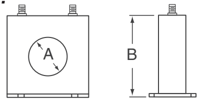

Part No. Prefix	Dimensions Inch (mm) A Min.	B Max.
CR2	1.13 (28.7)	2.68 (68.1)

Split-Core Current Transformer

The **CR3110** Split-Core Current Transformer is designed to provide a low cost method to monitoring electrical current. A unique hinge and locking snap allows attachment without interrupting the current-carrying wire.

Specifications:
- **Maximum Continuous Primary Current**: 75 AAC
- **Secondary Turns:** 3000
- **DC Resistance:** 460Ω @ 20°C
- **Frequency:** 50 ~ 60Hz

Dimensions in Inch (mm)

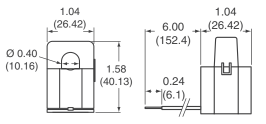

Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
582-1004-ND	14.80	12.58	11.84	CR3110-3000

Low Cost Current Sensors

Specifications:
- **Accuracy:** ±.5% Full Scale
- **Ripple:** 1% Maximum
- **Signal Out:** 0-5 Vdc
- **Output Load:** 1.0MΩ or greater for rated accuracy
- **Response Time:** 250ms Maximum 10 ~ 90% Full Scale
- **Frequency:** 50 ~ 400Hz (All specifications for operation @ 60Hz)

Dimensions in Inch (mm)

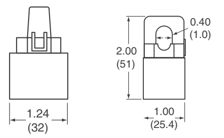

AAC	Window Dia. (inch)	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
10	0.40‡	582-1033-ND	34.41	29.25	27.53	CR9580-10
20	0.40‡	582-1034-ND	34.41	29.25	27.53	CR9580-20

‡ Window Split Core

Current Switches

The **CR9321** series and the **CR9380** series is a low cost, self powered, fixed set-point Current Switch designed for applications that require an on-off indication of current flow.

Specifications: • **Rated Full-on:** 0.350 AAC RMS • **Turn-on Time:** 100 ms Maximum @ rated full-on • **Turn-off Time:** 250 ms Maximum to 80% of Vce • **Maximum Sense Current:** Continuous: 100AAC, 1 Second: 500AAC • **Frequency:** 50 ~ 400Hz (All specifications for operation @ 60Hz only) • **Operating Temperature:** -30°C ~ 60°C

DC Switching (NPN or PNP): • **Vce (full-off):** 30 Vdc Maximum • **Isink (full-on):** 120 mAdc Maximum @ rated full-on

AC Switching (ACA): • **Off State Voltage:** 240 Vac RMS Maximum • **Minimum Switch Voltage:** 24 Vac RMS • **On State Current:** 1.0 AAC RMS Maximum continuous

Fig.	Transistor Output	Window Diameter	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
1	ACA‡	0.27	582-1020-ND	21.45	18.24	17.17	CR9321-ACA
	NPN	0.27	582-1021-ND	21.45	18.24	17.17	CR9321-NPN
	PNP	0.27	582-1022-ND	21.45	18.24	17.17	CR9321-PNP
2	NPN	Split Core	582-1027-ND	34.41	29.25	27.53	CR9380-NPN

‡ AC Output

Dimensions in Inch (mm)

Fig. 1

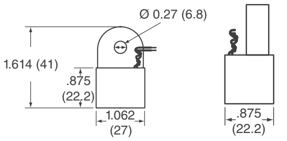

Fig. 2

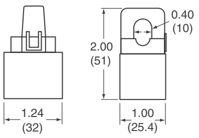

Sensors

CR4395 Series: Current Sensing Relay that provides an effective and highly stable method for monitoring electrical current. The current-carrying wire is routed through the opening extending from the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay is energized.

CR5395 Series: Direct Current Sensing Relay that provides a precision and cost effective method for monitoring direct current. Magnetic Modulator Technology is utilized for the current sensing to provide a stable and highly repeatable current trip. The current-carrying wire is routed through the opening extending from the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay is energized.

CR7310 Series: Ground Fault Sensor that provides a reliable and cost effective method for sensing ground faults. The current-carrying wires are routed through the opening extending from the top of the case. When ground current reaches the level set by the trip point adjustment, the relay trips, illuminates the tripped LED and provides an output signal.

TRIP STATUS:

EH: Energized on High, trips when sense current is above trip point and returns to non-trip status when sense current is below the trip point.

EL: Energized on Low, trips when sense current is below trip point and returns to non-trip status when sense current is above the trip point.

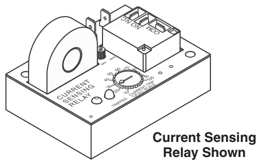

Current Sensing Relay Shown

Trip Status	Supply Voltage	Trip Range	Time On Delay	Trip Point Dial	Transformer	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
Current Sensing Relay										
EH	120VAC	1.0 ~ 10AAC	None	Calibrated Dial	Internal	582-1074-ND	62.02	49.62	46.52	CR4395-EH-120-110-X-CD-ELR-I
EH	120VAC	3.0 ~ 30AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1075-ND	62.02	49.62	46.52	CR4395-EH-120-330-A-CD-ELR-I
EH	120VAC	6.0 ~ 60AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1076-ND	62.02	49.62	46.52	CR4395-EH-120-660-A-CD-ELR-I
EL	120VAC	1.0 ~ 10AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1077-ND	62.02	49.62	46.52	CR4395-EL-120-110-A-CD-ELR-I
Direct Current Sensing Relay										
EH	24VDC ± 10%	1.0 ~ 10ADC	None	Calibrated Dial	Internal	582-1078-ND	69.72	55.78	52.29	CR5395-EH-24D-110-X-CD-ELR-I
EH	85 ~ 265VAC	1.0 ~ 10ADC	None	Calibrated Dial	Internal	582-1079-ND	69.72	55.80	52.29	CR5395-EH-ACV-110-X-CD-ELR-I
Ground Fault Sensor										
EH	120VAC	.01 ~ 0.1AAC	None	Calibrated Dial	Internal	582-1080-ND	99.90	79.93	74.93	CR7310-EH-120-.01.1-X-CD-ELR-I
EH	120VAC	0.1 ~ 1.0AAC	None	Calibrated Dial	Internal	582-1081-ND	99.90	79.93	74.93	CR7310-EH-120-.11-X-CD-ELR-I
EL	120VAC	.01 ~ 0.1AAC	None	Calibrated Dial	Internal	582-1082-ND	99.90	79.93	74.93	CR7310-EL-120-.01.1-X-CD-ELR-I

Open Loop Current Sensors — Hall Effect Technology

Fig. 1 — L01Z Series

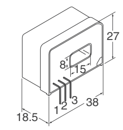

1	OUT
2	GND
3	5V

Fig. 2 — L03S Series

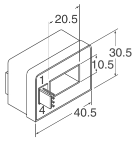

1	+15V
2	-15V
3	OUT
4	GND

Fig. 3 — L07P Series

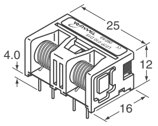

1	+5V
2	NC
3	OUT1
4	OUT2
5	GND
6	+IN1
7	-IN2
8	+IN2
9	-IN2

Fig. 4 — L08P Series

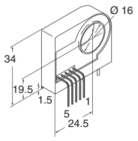

1	+Vc (15V)
2	-Vc (15V)
3	OUT
4	GND
5	NC

Fig. 5 — L18P Series

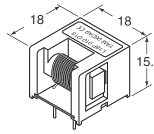

1	-V cc
2	GND
3	+V cc
4	OUT
5	+ Primary Input
6	- Primary Input

A hall effect current sensor measures the magnetic flux which is produced proportionally to the current without any contact with the primary circuit. This results in no voltage drop in the measured circuit which provide excellent galvanic isolation.

Features: • Galvanic isolation between primary and measuring circuit, measures DC or AC (kHz) • Zero insertion loss • Quick response

Specifications (measured at Input Voltage and @ 25°): • Frequency Band Width (-3dB): L01Z, L03S, L08P, L18P: DC-50kHz; L07P: DC-35kHz • Output Linearity: ±1% • Operating Temperature: -10°C ~ 80°C • Insulation Resistance @ 500VDC: ≥500MΩ - di/dt • Response Time: 5µ Sec. Typ. (10µ for L08P Series) • Load Resister: 10kΩ 3mW minimum.

Fig.	Primary Nominal Current (A)	Supply Voltage (V)	Secondary Output Voltage (V)	Saturation Current (A)	Offset Temperature Coefficent (mV/°C)	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
L01Z Series — RoHS Compliant											
1	±50	+5	4†	±62.5	≤±2	MT7173-ND	17.75	14.20	11.36	10.65	L01Z050S05
	±100	+5	4†	±125	≤±1	MT7174-ND	17.75	14.20	11.36	10.65	L01Z100S05
	±150	+5	4†	±187.5	≤±1	MT7175-ND	17.75	14.20	11.36	10.65	L01Z150S05
	±200	+5	4†	±250	≤±1	MT7176-ND	17.75	14.20	11.36	10.65	L01Z200S05
	±400	+5	4†	±500	≤±1	MT7178-ND	17.75	14.20	11.36	10.65	L01Z400S05
	±600	+5	4†	±750	≤±1	MT7180-ND	17.75	14.20	11.36	10.65	L01Z600S05
L03S Series (Molex Mating Connector Required) — RoHS Compliant											
2	±50	±15	±4	±150	≤±2	MT7181-ND	17.48	13.98	11.19	10.49	L03S050D15
	±200	±15	±4	±600	≤±1	MT7183-ND	17.48	13.98	11.19	10.49	L03S200D15
	±400	±15	±4	±700	≤±1	MT7185-ND	17.48	13.98	11.19	10.49	L03S400D15
L07P Series — RoHS Compliant											
3	±15	±15	±4	±45	≤±2	MT7300-ND	17.90	14.32	11.46	10.74	L07P015D15
L08P Series											
4	±50	±15	±4	±150	≤±2	MT7188-ND◆	16.20	12.96	10.37	9.72	L08P050D15
	±100	±15	±4	±300	≤±1	MT7189-ND◆	16.20	12.96	10.37	9.72	L08P100D15
	±150	±15	±4	±350	≤±1	MT7190-ND	16.20	12.96	10.37	9.72	L08P150D15
L18P Series — RoHS Compliant											
5	±3	±15	±4	±9	≤±1.5	MT7311-ND	12.60	10.08	8.07	7.56	L18P003D15
	±5	±15	±4	±15	≤±1.5	MT7312-ND	12.60	10.08	8.07	7.56	L18P005D15
	±10	±15	±4	±30	≤±1.5	MT7313-ND	12.60	10.08	8.07	7.56	L18P010D15
	±15	±15	±4	±45	≤±1.5	MT7314-ND	12.60	10.08	8.07	7.56	L18P015D15
	±20	±15	±4	±60	≤±1.5	MT7315-ND	12.60	10.08	8.07	7.56	L18P020D15
	±25	±15	±4	±60	≤±1.5	MT7316-ND	12.60	10.08	8.07	7.56	L18P025D15

† + Vref = 2.5V at 0 Amps ◆ *RoHS Compliant*

WM2022-ND	Waldom Molex, 4 Position Housing (2.50mm) KK Series.	**$.59**
WM2312-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062” (1.57) Max; Finish: Selective Gold 15u"	**$3.24/10**
WM1129-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062” (1.57) Max; Finish: Gold 15u"	**$8.66/10**
WM1114-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062” (1.57) Max; Finish: Tin	**$2.41/10**
WM9999-ND	Waldom Molex, Universal Crimp Tool	**$33.75**
WM9927-ND	Waldom Molex, Extraction Tool	**$8.28**

Closed Loop Multi-range Current Sensors

Closed loop (compensated) current sensor provides an exact duplication of the primary current scaled by the number of turns in the secondary coil. Each multi-range sensor has a nominal sensing current but can be changed by configuring the primary pins. The sensing current can be scaled down by 1/2 or 1/3 the nominal output sensing current, which gives you the flexibility to sense 3 different current ranges with only one part.

Specifications (measured at input voltage and 25°C): • Frequency Bandwidth S22P(1dB): DC-200kHz (at higher frequencies derating is required to prevent core from overheating) • Output Linearity: ±0.25% • Operating Temperature: -10°C ~ 85°C • Insulation Resistance @ 500VDC: ≥ 500mΩ • Response Time: 1µSec. • Load Resistor 10kΩ 3mW Minimum

Primary Nominal Current (A)	Supply Voltage (V)	Secondary Output Voltage (V)±1%	Saturation Current (A)	Offset Temperature Coefficent (mV/°C)	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
S22P Series										
±6	+5	2.5±30mV	±18	1.25	MT7318-ND	15.18	12.14	9.72	9.11	S22P006S05
±15	+5	2.5±20mV	±45	1.25	MT7319-ND	15.18	12.14	9.72	9.11	S22P015S05
±25	+5	2.5±15mV	±75	1.25	MT7320-ND	15.18	12.14	9.72	9.11	S22P025S05

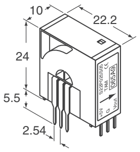

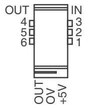

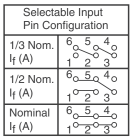

Current Transformer Standard Accuracy Low-Cost 50/60 Hz

Applications:

• Sensing current overload • Ground fault detection • Metering

Notes:

• RCF: Ratio Correction Factor. Multiply current readings by this factor to compensate for transformer losses. • Data is deemed reliable at the time of publication, but may be subject to change without notice.

Size Code	Dimensions – mm W	L	H	A	B	C	D (Dia.)	ID
A	23.83	23.83	11.13	15.24	7.62	1.75	0.81	9.53
B	30.18	30.18	14.30	20.32	10.16	2.08	1.02	11.43
C	34.93	34.93	14.30	25.40	10.16	2.08	1.02	14.61
D	38.10	38.10	15.88	30.48	10.16	2.84	1.02	14.61
E	44.45	44.45	14.30	35.56	10.16	2.08	1.02	19.05
F	55.58	55.58	20.65	45.72	12.70	3.96	1.02	23.88

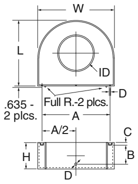

Size Code	Rated Ip Amps	Turns Ratio	Nominal DCR	RCF @ 10% (1)	Volts/Amp @ Rated Ip, for Various Loads (Ω) 100	500	2K	5K	Digi-Key Part No.	Price Each 1	10	25	Amveco Part No.
A	5.0	1000:1	39	1.040	0.10	0.45	1.35	1.8	TE1005-ND	11.27	9.66	9.02	AC1005
A	10.0	1000:1	39	1.035	0.10	0.45	1.00	1.3	TE1010-ND	11.27	9.66	9.02	AC1010
A	15.0	1000:1	39	1.030	0.10	0.43	0.80	1.0	TE1015-ND	11.27	9.66	9.02	AC1015
A	20.0	1000:1	39	1.030	0.10	0.42	0.70	0.8	TE1020-ND	9.24	7.92	7.40	AC1020
B	25.0	1000:1	46	1.020	0.10	0.40	1.00	1.2	TE1025-ND	13.48	11.55	10.78	AC1025
B	30.0	1000:1	46	1.020	0.10	0.40	0.85	1.1	TE1030-ND	13.51	11.58	10.81	AC1030
C	40.0	1000:1	46	1.020	0.10	0.45	0.75	1.0	TE1040-ND	15.65	13.41	12.52	AC1040
C	50.0	1000:1	46	1.020	0.10	0.44	0.70	0.8	TE1050-ND	17.01	14.58	13.61	AC1050
D	60.0	1000:1	23	1.020	0.10	0.36	0.60	0.7	TE1060-ND	17.75	15.21	14.20	AC1060
D	75.0	1000:1	23	1.015	0.10	0.35	0.50	0.6	TE1075-ND	17.82	15.27	14.26	AC1075
E	100	1000:1	20	1.015	0.10	0.35	0.50	0.6	TE1100-ND	18.34	15.72	14.68	AC1100
F	150	1000:1	10	1.010	0.10	0.32	0.55	0.6	TE1150-ND	17.35	15.62	13.88	AC1150
F	200	1000:1	10	1.010	0.10	0.30	0.45	0.6	TE1200-ND	17.60	15.84	14.08	AC1200

CHERRY Solid State Magnetic Hall Effect Sensors

Fig. 1

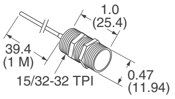

Fig. 2

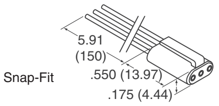

Fig. 3

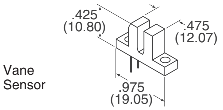

Fig. 4

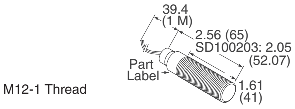

Fig. 5

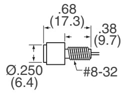

Cherry magnetic sensors are used to detect changes in magnetic field polarities and the motion of ferrous metals such as gear tooth movements. Used for such applications as speed and proximity sensing, magnetic polarity detection and current flow monitoring. Solid state design for unlimited life.

Features:

MP100 Series:

- Aluminum threaded barrel sensor for speed and position sensing
- The threaded barrel allows precise positioning and adjustment

GS100 Series:

- Barrel sensors intended for gear tooth speed sensing
- High speed capability, ideal for sensing power gears, conveyer speed and other rotating gears
- Built-in magnet supplies its own bias field
- GS101202 is plastic housing with steel bushing

Fig.	Supply Voltage	Output Current	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
1	4.75-24VDC	25mA	20AWG Wires	South Pole	CH396-ND†◆	27.73	24.65	20.54	19.00	MP100701
2	4.75-24VDC	25mA	24AWG Wires	South Pole	CH399-ND	6.91	6.15	5.12	4.74	MP101301
3	4.5-24VDC	25mA	PC Mount	Ferrous Vane	CH401-ND◆	7.59	6.75	5.62	5.20	VN101501
4	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH416-ND†	34.29	30.48	25.40	23.50	GS100502
	4.5-24VDC	25mA	22AWG Wires	Gear Teeth	CH414-ND‡	61.18	54.39	45.32	41.93	GS100102
5	Threaded Actuator, South pole magnet, Aluminum Housed				CH700-ND◆	5.83	5.19	4.32	4.00	AS101001

‡ Industrial Grade-Stainless Steel † Commercial Grade Aluminum ◆ ***RoHS Compliant***

Honeywell Sensors

Linear / Angular / Rotary Displacement Sensors – HMC1501 / HMC1512

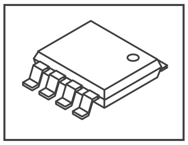

High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with <0.07° resolution. Output is typical Wheatstone Bridge

Features: • No "rare earth" magnets; functions with Alnico or ceramic type magnets • Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together • Absolute sensing ability to know exact position and require no indexing for proper positional output • No moving parts to wear out • 8-pin SMT package • Case dimensions (exclusive of pins) of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square • Full scale output range of 120mV with 5V of power supply.

Applications: • Linear Displacement • Angular Displacement • Motor Control • Valve Position • Proximity Detection • Current Spike Detection. **Specifications** (at 25°C except stated otherwise)**:** • **Typical Bridge Supply:** 5V, Vbridge referenced to GND • Sensitivity Vbridge =5V, field 80 Oe**:** 2.1mV/° @ zerocrossing; 1.8mV/° @ zero crossing, averaged in the range of 45° • **Typical Peak-to-Peak Voltage:** 120mV, Vbridge=5V, field=80 Oe • **Bandwidth:** 0MHz ~ 5MHz, Magnetic signal • **Typical Hysteresis Error:** 30µV°, 1.7x10^{-2} mV°, Magnetic field ≥saturation field, Vbridge = 5V

Typ. Bridge Resistance @ 1mA	Angle Range ≥ Saturation Field	Typ. Resolution 10Hz Bandwidth Vbridge=5V <0.07°	Digi-Key Part No.	Price Each	Honeywell Part No.
5KΩ	±45°	<0.07°	342-1008-5-ND	17.00	HMC1501
2.1KΩ	±90°	<0.05°	342-1010-1-ND	17.00	HMC1512
2.1KΩ	±90°	<0.05°	342-1010-2-ND†	1250.00/1,000	HMC1512

† Tape and Reel

Smart Digital Magnetometer – HMR2300

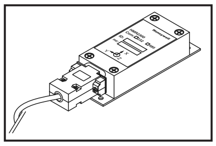

Microcontroller-Based Smart Sensor with range of ±2 Gauss; <70µGauss Resolution. Has high accuracy over ±1 Gauss; <0.5%FS; and Output Rate Selectable of 10 to 154 Samples/Sec. This sensor has a three-axis digital output, BCD ASCII or Binary, RS-232 Serial Output (9600 or 19200), and a 9-pin D-Sub connector.

Applications: • Compassing – Avionics and Marine • Remote Vehicle Monitoring (Roll/Pitch/Yaw) • Process Control • Laboratory Instrumentation • Anomaly Detection • Traffic and Vehicle Detection • Security Systems. **Specifications:** • **Supply Voltage:** 6.5V ~ 15V; Pin 9 referenced to Pin 5 • **Typical Supply Current:** 27mA; Vsupply=15V, with S/R=ON • **Operating Temp:** -40°C ~ 85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typical Linearity Error:** 1%FS; Best fit straight line at 25°C ±2 Gauss • **Typical Hystereis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Minimum Resolution:** 67µgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1015-ND	744.30	HMR2300-D20-232
RS-232	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1016-ND	744.30	HMR2300-D21-232
RS-485	Without Enclosure	342-1017-ND	700.00	HMR2300-D00-485
RS-485	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1018-ND	744.30	HMR2300-D20-485
RS-485	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1019-ND	744.30	HMR2300-D21-485
RS-232	HMR2300 Development Kit with RS-232 Output, Cables, Manual	342-1012-ND	795.00	HMR2300-Demo-232

Digital Compass Module – HMR3000

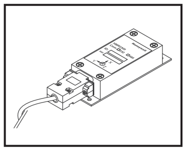

Electronic compass module that provides heading, pitch and roll output for navigation and guidance systems. This solid state magnetoresistive sensors make this strapdown compass both rugged and reliable. This compass provides fast response time up to 20Hz and high heading accuracy of 0.5° with 0.1° resolution.

Features: • Built with solid state magnetic sensors and no moving parts improves response time, allowing faster updates compared to gimballed fluxgates • Available as a circuit board 1.2" x 2.95", weighing less than one ounce, or in an aluminum enclosure • Operates with less than 35mA, allowing for long operation with a battery • Accuracy better than 0.5° with 0.1° resolution for critical positioning applications • Tilt range of ±40° for both the roll and pitch allows operation for most applications • Calibration routines to compensate for distortion due to nearby ferrous objects and stray fields, such as vehicles • User settings of baud rate, update rate, output format, units, filter settings, deviation angles, alarms, and warnings are stored internally in non-volatile memory.

Specifications: • **Typical Supply Voltage:** 5.0VDC regulated, 6-15VDC unregulated • **Typical Power:** 35mA @ 6VDC Normal Operation, 13mA STOP Mode, 2.0mA SLEEP Mode • **Serial:** RS-232 / RS-485 (Half Duplex) • **Baud Rate:** 1200 ~ 38400 bps

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1024-ND	675.00	HMR3000-D00-232
RS-232	Enclosure, Extended Base	342-1025-ND	700.00	HMR3000-D21-232
RS-485	Without Enclosure	342-1026-ND	675.00	HMR3000-D00-485
RS-485	Enclosure, Extended Base	342-1027-ND	700.00	HMR3000-D21-485
HMR 3000 Development Kit, with RS-232 Output, Cables, Manual		342-1022-ND	795.00	HMR3000-Demo-232

Digital Compass Module – HMR3200/3300

Electronic compassing solutions that provide heading information for use in navigation and guidance systems. Magnetoresistive sensors are utilized to provide the reliability and accuracy of these small, solid state compass designs. These compass solutions are easily integrated into systems using a UART interface in ASCII format.

Features: Accuracy: 1° heading accuracy, 0.1° resolution and 0.5° repeatability. **Tilt Range:** The HMR3300 may be operated up to a ±60° tilt range for both pitch and roll. Accuracy and performance are enhanced over a wider range of operating conditions and applications with this feature. The HMR3200 is not tilt compensated. Performance is optimized in horizontal or vertical orientations. **Low Power:** Typical operating current is 18mA for the HMR3200. **Response Time:** The HMR3200 has 15Hz response time for faster updates compared to gimballed, mechanical fluxgate compasses.

Specifications: • **Magnetic Field:** Range: ±2 gauss typical, Resolution: 0.1 mgauss • **Electrical:** Input Voltage: Unregulated: 6VDC ~ 15VDC, Regulated: 5.0Vdc • **Interface:** UART - User selectable baud rate 2400 ~ 19200 baud • **Physical:** Dimensions - Conditions: Circuit board, 1.0" x 1.45" x 0.4" (25.4 x 36.8 x 11 mm)

Header Pin Assignment

Pin No.	Pin Name
1	SCK
2	RX/SDI
3	TX/SDO
4	CS
5	CAL
6	5V
7	GND
8	+V

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
UART	Digital Compass Module 2-axis	342-1030-ND	300.00	HMR3200
UART	Digital Compass Module 3-axis	342-1032-ND	385.00	HMR3300
HMR 3200 Development Kit, with RS232 Output, Cables, Manual		342-1031-ND	365.00	HMR3200-Demo-232
HRMR 3300 Digital Compass Module with RS232 Motherboard		342-1039-ND	450.00	HMR3300-D00-232
HMR 3300 Development Kit, with RS232 Output, Cables, Manual		342-1033-ND	450.00	HMR3300-Demo-232

Digital Compass Solution

The Honeywell HMR3400 is a digital compass solution designed for use in navigation and precision pointing applications. Using a common set of commands from the legacy HMR3300 digital compass solution, the HMR3400 is designed to be easily integrated into host systems with a regulated 5 volt supply and a UART serial data interface.
Features: • Tilt-Compensated • Operating Temperature Range: -40°C ~ 85°C

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
HMR3400 Module	342-1057-ND	360.00	HMR3400

TruePoint™ Compass Module

The HMR3500 TruePoint compass module is a 3-axis digital compass solution with a customizable coordinate system for mounting in any desired orientation. It has provisions for hard and soft-iron correction algorithms to handle magnetic distortion effects. In addition a World Magnetic Model feature is provided to automatically add declination angle corrections for reference to true north (geographical north). **Features:** • Tilt-Compensated • Operating Temperature Range: -40°C ~ 85°C • Supply Voltage Range: 5DC **Benefits:** • Better than 1° Nominal Heading Accuracy (1δ), 0.1° Resolution • ±89° Pitch and Roll, 360° Continuous Roll Capability

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
HMR3500 Module	342-1058-ND	650.00	HMR3500
Demo Kit	342-1059-ND	812.50	HMR3500 DEMO

3-Axis Magnetic - Hybrid

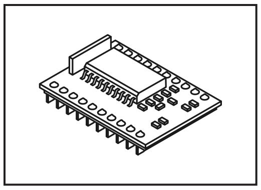

A complete 3-axis magneto-meter with analog output in a 20-Pin hybrid DIP package.

Features:

• DIP-20 foot-print (1" x .75") allows easy insertion into system-level boards, reducing development costs • Solid state components improve reliability and ruggedness compared to mechanical fluxgates • Accurately measures fields from 40 µgauss to ±2 gauss at 1V/gauss • Low noise instrumentation amplifiers with 1kHz low pass filters, reject unwanted noise • No flux concentrators used in this design that can lead to hysteresis and non-repeatability • An externally accessible +2.5V reference improves measurement accuracy and stability • On-board excitation current source reduces temperature errors and regulates the power supply input • Magnetic field offsets or closed loop circuits can be applied using the built-in straps • Output signal accuracy may be enhanced by using the integral set/reset straps • All components selected and packaged in nonmagnetic material to reduce magnetic distortion and offsets.

Applications:

• Compassing • Navigation systems • Attitude reference • Traffic detection • Proximity detection • Medical devices

Specifications (Power Supply: +15VDC; Set/Reset switching is active):

• Operating Temperature: -40°C ~ 85°C, ambient @ 25°C • Supply Voltage: 6VDC ~ 15VDC; Transient protection circuitry should be added across V+ and Gnd if an unregulated power supply is used • Supply Current: 20mA • Output Voltage: 0.5V ~ 4.5V • Field Range: ±2 gauss • Typical Linearity Error: 1% FS; ±2 gauss applied field sweep • Typical Hysteresis Error: 0.05% FS; 3 sweeps across ±2 gauss • Typical Sensitivity: 1.0mV/V/gauss; at Vbridge +5V • Typical Resolution: 40 µgauss • Bandwidth: 1kHz

Units:

• 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnet Sensor Hybrid	342-1011-ND	220.00	HMC2003

1, 2 and 3-Axis Magnetoresistive Digi-Reel®

Configured as a 4-element wheatstone bridge, these highly sensitive sensors convert magnetic fields to differential output voltages, capable of sensing magnetic fields as low as 30 µgauss.

Features: • Field range up to ±6 gauss, (earth's field = 0.5 gauss) • Small package designed for 1 and 2-axis to work together to provide 3-axis (x, y, z) sensing • Solid state devices reduce board assembly costs, improve reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset straps to reduce effects of temperature drift, non-linearity errors and loss of signal output due to the presence of high magnetic fields • Patented on-chip offset straps for elimination of the effects of hard iron distortion

Applications: • Compassing • Navigation systems • Attitude reference • Traffic detection • Medical devices • Non-contact switch

	Honeywell Part No.			
SPECIFICATIONS:	**HMC1001**	**HMC1021 HMC1022**	**HMC1042**	**HMC1043, HMC1051 HMC1052, HMC1053**
Operating Temperature (Condition)	-55°C ~ 150°C ‡ (—)	-55°C ~ 150°C (—)	-40°C ~ 125°C (Ambient)	-40°C ~ 125°C (Ambient)
Field Range Full scale (FS) - total applied field	±2 gauss ‡	±6 gauss	±6 gauss	±6 gauss
Sensitivity Typical (Set/Reset Current)	3.2 mV/V/gauss (0.3A)	1.0 mV/V/gauss (0.5A)	1.0 mV/V/gauss (0.5A)	1.0 mV/V/gauss (0.5A)
Resolution Typical (Bandwidth, Vbridge)	27 µgauss ‡ (10Hz, 5V)	85 µgauss (10Hz, 5V)	160 µgauss (1kHz, 5V)	120 µgauss (50Hz, 5V)
Bandwidth Magnetic signal (lower limit = DC)	5MHz ‡	5MHz	5MHz	5MHz
Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma				

‡ Not tested in production, guaranteed by characterization

Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Honeywell Part No.
8-Pin SIP, Single Axis	342-1001-5-ND	19.00	16.50	13.50	—	—	—	HMC1001
8-Pin SIP, Single Axis	342-1061-ND◆	17.00	6.75	5.00	—	—	—	HMC1021Z-RC
8-Pin SIP, Single Axis	342-1034-5-ND	17.00	6.75	5.00	—	—	—	HMC1051Z
8-Pin SIP, Single Axis	342-1060-ND◆	17.00	6.00	5.00	—	—	—	HMC1051Z-RC
8-Pin SOIC, Single Axis	342-1003-5-ND◆	17.00	6.75	5.00	—	—	—	HMC1021S
8-Pin In-Line LCC, Single Axis	342-1043-5-ND	17.00	15.00	13.00	—	—	—	HMC1051ZL
16-Pin SOIC, Double Axis	342-1005-1-ND◆†	17.00	10.00	6.00	342-1005-2-ND◆	2,500	3250.00/M	HMC1022
16-Pin LCC, Double Axis	342-1042-5-ND◆	17.00	7.00	6.00	—	—	—	HMC1052L
16-Pin LCC, Double Axis	342-1053-1-ND◆†	17.00	7.00	6.00	342-1053-2-ND◆	3,000	3250.00/M	HMC1042L-TR
20-Pin SOIC, Double Axis	342-1070-ND◆	21.00	19.80	18.70	—	—	—	HMC1002-RC
16-Pin LCC, Triple Axis	342-1035-5-ND	55.00	50.00	42.00	—	—	—	HMC1053
16-Pin LPCC, Triple Axis	342-1054-1-ND†	34.00	15.00	14.00	342-1054-2-ND	1,000	8999.97	HMC1043-TR
Demonstration Boards								
Demo Board for HMC1041Z and HMC1042L	342-1064-ND		250.00/1		—	—	—	HMC1042L/HMC1041Z-DEMO
Demo Board for HMC1043	342-1066-ND		250.00/1		—	—	—	HMC1043-DEMO

◆ ***RoHS Compliant*** † Cut Tape

HMC6042

Digi-Reel® RoHS COMPLIANT

The HMC6042 includes our state of the art 1042 series magneto-resistive sensors plus a precision mixed signal ASIC containing three sensor amplifiers and a compatible set/reset strap driver circuit for 2.4V ~ 3.6V operation. The sensors feature precision in-axis sensitivity and linearity, solid-state construction with very low cross-axis sensitivity designed to measure both direction and magnitude of Earth's magnetic fields. **Features:** • Low Voltage Operations (2.4V ~ 3.6V) • Built-In Set/Reset Drive Circuit • Wide Magnetic Field Range (+/-6 Oe) **Benefits:** • Single Logic Input for Degaussing, Thermal Drift Compensation • Feedback Pins for Gain and Bandwidth Shaping

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel† Pricing 1,000	Honeywell Part No.
2-Axis Magnetic Sensor	342-1055-1-ND	25.00	8.00	7.00	5625.00	HMC6042-TR

† For Tape and Reel part number, change 1-ND to 2-ND.

Digital Compass Modules

The Honeywell HMC5843 is a surface mount multi-chip module designed for low field magnetic sensing with a digital interface for applications such as low cost compassing and magnetometry. The HMC5843 includes our state of the art 1043 series magneto-resistive sensors plus Honeywell developed ASIC containing amplification, strap drivers, offset cancellation, 12-bit ADC and an I²C serial bus interface. **Features:** • 3-Axis Magnetoresistive Sensors and ASIC in a Single Package • Low Voltage Operations (2.4V ~ 3.3V) • I²C Digital Interface • Wide Magnetic Field Range (+/-6 Oe) **Benefits:** • Compatible for Battery Powered Applications • Complies with Current Environmental Standards
The HMC63xx digital compass modules combine a 2 or 3-axis tilt sensor with the required support circuitry for heading computation. By combining the sensor and processing elements into a small LCC or LPCC package designers will have the most simple solution to integrate low cost and space efficient compasses for mobile phones, consumer electronics, vehicle compassing and antenna positioning. **HMC6352 Features:** • 24 pin LCC • 2-axis sensor • 2.7V ~ 5.2V supply range **HMC6343 Features:** • 36 pin LPCC • 3-axis sensor • 2.7V ~ 3.6V supply range

Dimensions in mm

Fig. 1

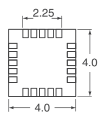

Fig. 2

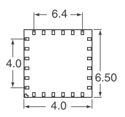

Fig. 3

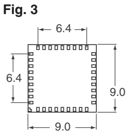

Fig.	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
1	20-Pin LCC, Triple Axis	342-1071-1-ND◆	20.00	HMC5843
		342-1071-2-ND◆	8125.00/2,500	HMC5843
2	24-Pin LCC, Double Axis	342-1041-1-ND◆	25.00	HMC6352
		342-1041-2-ND◆	8125.00/1,000	HMC6352
3	36-Pin LPCC, Triple Axis	342-1056-ND◆	95.00	HMC6343
Demonstration Board for HMC6343		342-1067-ND	250.00	HMC6343-DEMO
Evaluation Board for HMC5843		342-1072-ND◆	150.00	HMC5843-EVAL
Demonstration Board for HMC5843		342-1073-ND◆	250.00	HNC5843-DEMO

◆ ***RoHS Compliant***

DRM™ 4000

Features and Benefits: • State-of-the-art dead reckoning device for personnel navigation • Typical DR accuracy 2% distance traveled • Low power consumption • Industrial temperature range: -40°C ~ 85°C

The Dead Reckoning Module (DRM™) 4000 is a miniature, electronic device for personnel on foot that provides the user's position relative to an initialization point. When GPS data is available, the dead reckoning sensors are automatically calibrated continuously and the two data sources are blended into a composite real-time position data output. When GPS data is unavailable, dead reckoning takes over. Motion classification algorithms analyze walking motion, and compensate when the user is running, or in place.

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
DRM 4000 Module	342-1052-ND	1195.00	DRM4000-N00-232
DRM 4000 Evaluation Kit	342-1063-ND	2500.00	DRM4000-N00-USB-EVAL

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology

MSP Series:

The MSP pressure transducer is designed for high-volume, low-cost commercial, industrial and off road applications which require accurate measurement of gases or liquids. Operating ranges up to 10,000 psi is available with your choice of output signal in volts, millivolts, or milliamps. The MSP uses a micro machined silicon strain gauge inorganically bonded to a machined stainless steel diaphragm; no welds, no 0-rings, no silicone oil. All wetted surfaces are stainless steel and all signal conditioning electronics are housed in a stainless steel cover which provides protection from hostile environments. The housing is sealed and requires no maintenance. Each transducer is thoroughly tested and calibrated before shipment.

Applications:

• Pumps and Compressors • Hydraulic / Pneumatic Systems • Energy and Water Management • Pressure Instrumentation • Process Control, Off Road Refrigeration, HVAC.

2 Foot Cable — MSP Series

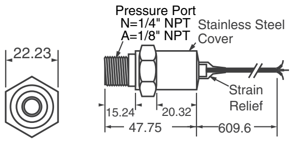

Packard Connector — MSP and M5100 Series

	Dimensions			
	A	B	C	D
SAE	9.14	44.45	74.42	20.8
UNF	13.3	48.0	81.7	20.3

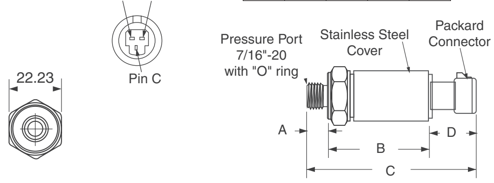

2 Foot Cable — UltraStable 5100 and M5100 Series

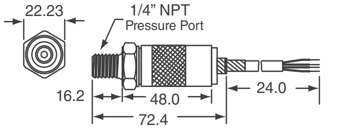

	MSP-100	MSP-300	MSP-340	MSP-400	MSP-600	MSP-610	U5100	M5100
Pressure Range (PSIG)	0-100 ~ 500	0-100 ~ 10,000	0-100 ~ 1,000	1,000 ~ 5,000	0-25 ~ 5,000	0-100 ~ 500	0-15 ~ 500	0-25 ~ 10,000
Accuracy (combined linearity, hysteresis and repeatability)	±0.20% of FS	±1% of FS	±1% of FS	±0.50% of FS	±0.25% BSL	±0.25% of FS	±1% of FS	±0.25% of FS
Pressure Overload	1.5X	2X	2X	2X	2X	2X	3X	2X
Burst Pressure	3X	5x or 20,000 PSI whichever is less				4X	4X	5X
Outputs VDC or mA	0-100mV	0-100mV, 1-5V 0.5-4.5V, 4-20mA	0-100mV, 0.5-4.5V	1-5V, 4-20mA	0.5-4.5V 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA
Zero Offset (millivolt output) (amplified output)	±2% of FS ±2% of FS	±3% of FS ±2% of FS	±3% of FS ±2% of FS	— ±2% of FS	— —	— —	— —	— —
Span Tolerance	±2% of FS	±2% of FS	±2% of FS	±2% of FS	—	—	—	—
Long-Term Stability, Typical (1 year)	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%	±0.1%	±0.25%
Operating Temperature (°C)	0 ~ 55	-20 ~ 85	-20 ~ 85	-40 ~ 85	-40 ~ 125	-40 ~ 125	-40 ~ 125	-40 ~ 125
Compensated Range (°C)	0 ~ 55	0 ~ 55	0 ~ 55	0 ~ 70	-20 ~ 85	—	-20 ~ 85	-20 ~ 85
Thermo Zero Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—	—	—
Thermo Span Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—	—	—
Total Error Band	N/A	N/A	N/A	N/A	1.5% of FS	1.0% of FS	±0.75% of FS	1.0% of FS
EMI/RFI Protection, CE Mark	No	No	No	Yes	Yes	—	—	—
UL Listed	No	Yes	No	Yes	Yes	—	—	—

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	Price Each 10	Measurement Specialties Part No.
MSP-100 Series — RoHS Compliant					
Calibrated 100mV Output — O-Ring Seal, 2 Foot Cable					
100	5	MSP6900-ND	78.96	66.16	MS121-000000U-100PG
250	5	MSP6901-ND	78.96	66.16	MS121-00000U-250PG
500	5	MSP6902-ND	78.94	66.14	MS121-000000U-500PG
MSP-300 Series					
0mV ~ 100mV Output — 4 Wire Unamplified 1/4" NPT, 2 Foot Cable					
100	5	MSP3101P1-ND◆	91.97	78.84	2000130
250	5	MSP3251P1-ND◆	91.97	78.84	2000199
500	5	MSP3501P1-ND◆	91.97	78.84	2000255
1000	5	MSP3102P1-ND	91.97	78.84	2000045
2500	5	MSP3252P1-ND◆	91.97	78.84	2000222
5000	5	MSP3502P1-ND◆	91.97	78.84	2000096
10000	5	MSP3103P1-ND	91.97	78.84	2000157
0.5V ~ 4.5V Output — Ratiometric Output Voltage to Input Voltage 3 Wire Supply Current 10mA Maximum 1/4" NPT, 2 Foot Cable					
100	5	MSP3101P2-ND◆	118.25	101.36	2000131
250	5	MSP3251P2-ND◆	118.25	101.36	2000202
500	5	MSP3501P2-ND◆	118.25	101.36	2000260
1000	5	MSP3102P2-ND◆	118.25	101.36	2000046
2500	5	MSP3252P2-ND◆	118.25	101.36	2000223
5000	5	MSP3502P2-ND	118.25	101.36	2000099
10000	5	MSP3103P2-ND◆	118.25	101.36	2000158
1V ~ 5V Output — Fixed - 3 Wire Supply Current 10mA Maximum 1/4" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P3-ND◆	125.32	107.42	2000133
250	10 ~ 32	MSP3251P3-ND◆	125.32	107.42	2000204
500	10 ~ 32	MSP3501P3-ND◆	125.32	107.42	2000262
1000	10 ~ 32	MSP3102P3-ND	125.32	107.42	2000048
2500	10 ~ 32	MSP3252P3-ND◆	125.32	107.42	2000226
5000	10 ~ 32	MSP3502P3-ND◆	125.32	107.42	2000100
10000	10 ~ 32	MSP3103P3-ND◆	125.32	107.42	2000159
1V ~ 5V — Output 1/8" NPT, 2 Foot Cable — RoHS Compliant					
100	10 ~ 32	MSP3101P4A1-ND	125.32	107.42	2000132
250	10 ~ 32	MSP3251P4A1-ND	125.32	107.42	2000203
500	10 ~ 32	MSP3501P4A1-ND	125.32	107.42	2000261
1000	10 ~ 32	MSP3102P4A1-ND	125.32	107.42	2000047
4mA ~ 20mA Output — 2 Wire Regulated Supply 1/4" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P4-ND◆	131.38	112.62	2000137
250	10 ~ 32	MSP3251P4-ND◆	131.38	112.62	2000207
500	10 ~ 32	MSP3501P4-ND◆	131.38	112.62	2000264
1000	10 ~ 32	MSP3102P4-ND	131.38	112.62	2000050
2500	10 ~ 32	MSP3252P4-ND	131.38	112.62	2000227
5000	10 ~ 32	MSP3502P4-ND◆	131.38	112.62	2000101
10000	10 ~ 32	MSP3103P4-ND◆	131.38	112.62	2000160
4mA ~ 20mA Output — 1/8" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P5A1-ND	131.38	112.62	2000136
250	10 ~ 32	MSP3251P5A1-ND◆	131.38	112.62	2000206
500	10 ~ 32	MSP3501P5A1-ND◆	131.38	112.62	2000263
1000	10 ~ 32	MSP3102P5A1-ND	131.38	112.62	2000049

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology *(Cont.)*

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	Price Each 10	Measurement Specialties Part No.
MSP-340 Series — RoHS Compliant					
100mV Output — 1/8" NPT, 2 Foot Cable					
100	5	MSP6892-ND	109.15	93.56	M3421-000006-100PG
300	5	MSP6893-ND	109.15	93.56	M3421-000006-300PG
500	5	MSP6894-ND	109.15	93.56	M3421-000006-500PG
1000	5	MSP6895-ND	109.15	93.56	M3421-000006-01KPG
0.5V ~ 4.5V Output — 1/8" NPT, 2 Foot Cable					
100	5	MSP6896-ND	127.34	109.15	M3431-000006-100PG
300	5	MSP6897-ND	127.34	109.15	M3431-000006-300PG
500	5	MSP6898-ND	127.34	109.15	M3431-000006-500PG
1000	5	MSP6899-ND	127.34	109.15	M3431-000006-01KPG
MSP-400 Series — RoHS Compliant					
4mA ~ 20mA Output — 2 Wire Regulated Supply 1/4" NPT, 2 Foot Cable					
1000	10 ~ 32	MSP4102P4-ND	108.50	93.00	2000417
MSP-600 Series — RoHS Compliant					
0.5VDC ~ 4.5VDC Output — 7/16" SAE, Packard Connector					
50	5	MSP6050P3-4-ND	96.25	82.50	2000965
75	5	MSP6075P3-4-ND	96.25	82.50	2000966
100	5	MSP6101P3-4-ND	96.25	82.50	2000967
1000	5	MSP6102P3-4-ND	96.25	82.50	2000970
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
50	10 ~ 30	MSP6050P5-1-ND	119.00	102.00	2000879
MSP-610 Series — RoHS Compliant					
0.5V ~ 4.5V Output — 1/8" NPT, 2 Foot Cable					
300	5	MSP6906-ND	114.19	97.88	M6131-C00006-300PG
500	5	MSP6907-ND	114.19	97.88	M6131-C00006-500PG
0.5V ~ 4.5V Output — 1/4" NPT, 2 Foot Cable					
100	5	MSP6903-ND	114.19	97.88	M6131-C00005-100PG
500	5	MSP6905-ND	114.19	97.88	M6131-C00005-500PG
1V ~ 5V Output — 1/4" NPT, 2 Foot Cable					
300	8 ~ 30	MSP6909-ND	119.00	102.00	M6141-C00005-300PG
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
100	10 ~ 30	MSP6911-ND	135.63	116.25	M6181-C00005-100PG
300	10 ~ 30	MSP6912-ND	135.63	116.25	M6181-C00005-300PG
500	10 ~ 30	MSP6913-ND	135.63	116.25	M6181-C00005-500PG
UltraStable 5100 Series — RoHS Compliant					
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, Absolute Pressure, 2 Foot Cable					
15PSIA	4.75 ~ 5.25	223-1000-ND	175.00	150.00	U5131-000005-015PA
30PSIA	4.75 ~ 5.25	223-1002-ND	198.20	168.17	U5131-000005-030PA
100PSIA	4.75 ~ 5.25	223-1004-ND	198.20	168.17	U5131-000005-100PA
4mA ~ 20mA Output — 1/4" NPT, Absolute Pressure, 2 Foot Cable					
15PSIA	9 ~ 30	223-1007-ND	211.41	179.38	U5151-000005-015PA
30PSIA	9 ~ 30	223-1009-ND	254.42	215.88	U5151-000005-030PA
100PSIA	9 ~ 30	223-1011-ND	254.42	215.88	U5151-000005-100PA
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, 2 Foot Cable					
15	4.75 ~ 5.25	223-1001-ND	198.20	168.17	U5131-000005-015PG
30	4.75 ~ 5.25	223-1003-ND	175.00	150.00	U5131-000005-030PG
100	4.75 ~ 5.25	223-1005-ND	198.20	168.17	U5131-000005-100PG
500	4.75 ~ 5.25	223-1006-ND	198.20	168.17	U5131-000005-500PG
M5100 Series — RoHS Compliant					
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, 2 Foot Cable					
50	4.75 ~ 5.25	223-1038-ND	138.46	118.68	M5131-000005-050PG
75	4.75 ~ 5.25	223-1041-ND	138.46	118.68	M5131-000005-075PG
100	4.75 ~ 5.25	223-1020-ND	138.46	118.68	M5131-000005-100PG
250	4.75 ~ 5.25	223-1026-ND	138.46	118.68	M5131-000005-250PG
500	4.75 ~ 5.25	223-1032-ND	138.46	118.68	M5131-000005-500PG
1000	4.75 ~ 5.25	223-1014-ND	138.46	118.68	M5131-000005-01KPG
2500	4.75 ~ 5.25	223-1029-ND	138.46	118.68	M5131-000005-2K5PG
5000	4.75 ~ 5.25	223-1017-ND	138.46	118.68	M5131-000005-05KPG
10000	4.75 ~ 5.25	223-1023-ND	138.46	118.68	M5131-000005-10KPG

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	Price Each 10	Measurement Specialties Part No.
1V ~ 5V Output — 1/4" NPT, 2 Foot Cable					
50	8 ~ 30	223-1039-ND	144.52	123.88	M5141-000005-050PG
75	8 ~ 30	223-1042-ND	144.52	123.88	M5141-000005-075PG
100	8 ~ 30	223-1021-ND	144.52	123.88	M5141-000005-100PG
250	8 ~ 30	223-1027-ND	144.52	123.88	M5141-000005-250PG
500	8 ~ 30	223-1033-ND	144.52	123.88	M5141-000005-500PG
1000	8 ~ 30	223-1015-ND	144.52	123.88	M5141-000005-01KPG
2500	8 ~ 30	223-1030-ND	144.52	123.88	M5141-000005-2K5PG
5000	8 ~ 30	223-1018-ND	144.52	123.88	M5141-000005-05KPG
10000	8 ~ 30	223-1024-ND	144.52	123.88	M5141-000005-10KPG
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
50	9 ~ 30	223-1040-ND	151.59	129.94	M5151-000005-050PG
75	9 ~ 30	223-1043-ND	125.78	107.82	M5151-000005-075PG
100	9 ~ 30	223-1022-ND	151.59	129.94	M5151-000005-100PG
250	9 ~ 30	223-1028-ND	151.59	129.94	M5151-000005-250PG
500	9 ~ 30	223-1034-ND	151.59	129.94	M5151-000005-500PG
1000	9 ~ 30	223-1016-ND	151.59	129.94	M5151-000005-01KPG
2500	9 ~ 30	223-1031-ND	151.59	129.94	M5151-000005-2K5PG
5000	9 ~ 30	223-1019-ND	151.59	129.94	M5151-000005-05KPG
10000	9 ~ 30	223-1025-ND	151.59	129.94	M5151-000005-10KPG
0.5V ~ 4.5V Ratiometric Output — 7/16" UNF Male, O-Ring, Packard Connector					
50	4.75 ~ 5.25	223-1045-ND	114.84	98.44	M5134-000004-050PG
75	4.75 ~ 5.25	223-1046-ND	114.84	98.44	M5134-000004-075PG
250	4.75 ~ 5.25	223-1048-ND	138.46	118.68	M5134-000004-250PG
500	4.75 ~ 5.25	223-1049-ND	138.46	118.68	M5134-000004-500PG
1000	4.75 ~ 5.25	223-1050-ND	114.84	98.44	M5134-000004-01KPG
2500	4.75 ~ 5.25	223-1051-ND	138.46	118.68	M5134-000004-2K5PG
5000	4.75 ~ 5.25	223-1052-ND	138.46	118.68	M5134-000004-05KPG
7500	4.75 ~ 5.25	223-1074-ND	138.46	118.68	M5134-000004-7K5PG
10000	4.75 ~ 5.25	223-1053-ND	138.46	118.68	M5134-000004-10KPG
1V ~ 5V Output — 7/16" UNF Male, O-Ring, Packard Connector					
50	8 ~ 30	223-1055-ND	144.52	123.88	M5144-000004-050PG
75	8 ~ 30	223-1056-ND	120.31	103.13	M5144-000004-075PG
100	8 ~ 30	223-1057-ND	120.31	103.13	M5144-000004-100PG
250	8 ~ 30	223-1058-ND	120.31	103.13	M5144-000004-250PG
500	8 ~ 30	223-1059-ND	120.31	103.13	M5144-000004-500PG
1000	8 ~ 30	223-1060-ND	144.52	123.88	M5144-000004-01KPG
2500	8 ~ 30	223-1061-ND	120.31	103.13	M5144-000004-2K5PG
5000	8 ~ 30	223-1062-ND	144.52	123.88	M5144-000004-05KPG
7500	8 ~ 30	223-1075-ND	120.31	103.13	M5144-000004-7K5PG
10000	8 ~ 30	223-1063-ND	144.52	123.88	M5144-000004-10KPG
4mA ~ 20mA Output — 7/16" UNF Male, O-Ring, Packard Connector					
100	9 ~ 30	223-1067-ND	151.59	129.94	M5154-000004-100PG
500	9 ~ 30	223-1069-ND	125.78	107.82	M5154-000004-500PG
2500	9 ~ 30	223-1071-ND	125.78	107.82	M5154-000004-2K5PG
7500	9 ~ 30	223-1076-ND	151.59	129.94	M5154-000004-7K5PG
10000	9 ~ 30	223-1073-ND	151.59	129.94	M5154-000004-10KPG
Barometric Pressure Sensors — RoHS Compliant					
.010 ~ 1.1 bar	2.2 ~ 3.6	223-1098-1-ND†	21.00	16.80	MS5440-CM
.010 ~ 1.1 bar	2.2 ~ 3.6	223-1098-2-ND‡	10710.00/1,000		MS5440-CM
0 ~ 14 bar	2.2 ~ 3.6	223-1099-1-ND†	19.53	15.35	MS5441-CM
0 ~ 14 bar	2.2 ~ 3.6	223-1099-2-ND‡	11858.00/1,000		MS5441-CM
.010 ~ 1.1 bar	2.2 ~ 3.6	223-1100-1-ND†	21.21	16.67	MS5534-CM
.010 ~ 1.1 bar	2.2 ~ 3.6	223-1100-2-ND‡	12878.00/1,000		MS5534-CM
0 ~ 14 bar	2.2 ~ 3.6	223-1101-1-ND†	26.99	21.21	MS5535-CM
0 ~ 14 bar	2.2 ~ 3.6	223-1101-2-ND‡	16384.00/1,000		MS5535-CM

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

SSI Technologies, Inc.
Controls Division

Cable Harnesses

Pre-made Cable Harnesses from SSI Technologies, Inc. with the industry standard Packard™ Automotive Connector.

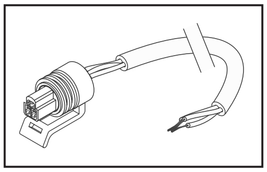

Description	Length Inch	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	SSI Technologies Part No.
Cable Harness Packard	12	734-1163-ND	11.66	10.43	9.78	P2432.3
Cable Harness Packard	36	734-1164-ND	20.90	20.05	18.14	P2435.3
Cable Harness Packard	72	734-1165-ND	26.43	25.44	23.23	14306.3

measurement SPECIALTIES

PC Board Mountable Pressure Sensors Temperature Compensated

These pressure sensors are intended for cost sensitive applications where excellent performance and long-term stability are required. Integral temperature compensation is provided using laser-trimmed resistors. An additional laser-trimmed resistor is included to normalize pressure sensitivity variations by programming the gain of an external differential amplifier. This provides sensitivity interchangeability of ±1%.
Features: • ±0.1% Non-linearity • ±1.0% Interchangeable Span (provided by gain set resistor) • Solid State Reliability • Low Power
Specifications: • **Output:** 0-100mV typical (full scale) • **Supply Current:** 1.5mA typical • **Response Time:** 1.0mSec typical (For a zero-to-full scale pressure step change) • **Operating Temperature:** -40°C ~ 125°C

Dimensions in mm

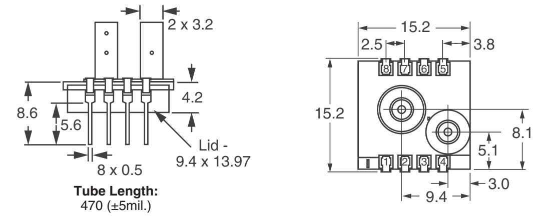

Tube Length:
470 (±5mil.)

Model 1210/1220 – Low Pressure:
- 0°C ~ 50°C Temperature Compensation Range • 1.0% Temperature Performance

Model 1230/1240 – UltraStable™:
- -20°C ~ 85°C Temperature Compensation Range • ±0.5% Temperature Performance

Model 1210/1220 – Medium Pressure:
- 0°C ~ 50°C Temperature Compensation Range • 0.5 ~ 1% Temperature Performance

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Model 1210 / 1220 - Low and Medium Pressure — RoHS Compliant							
0-1PSID	Differential	8-Pin Dip	MSP6940-ND	35.08	30.70	24.56	1210A-001D-3L
0-2PSID	Differential	8-Pin Dip	MSP6814-ND	35.08	30.70	24.56	1210A-002D-3L
0-5PSID	Differential	8-Pin Dip	MSP6816-ND	35.08	30.70	24.56	1220A-005D-3L
0-15PSID	Differential	8-Pin Dip	MSP6941-ND	35.08	30.70	24.56	1210A-015D-3L
0-15PSID	Differential	8-Pin Dip	MSP6943-ND	35.08	30.70	24.56	1220A-015D-3L
0-100PSID	Differential	8-Pin Dip	MSP6942-ND	35.08	30.70	24.56	1210A-100D-3L
0-100PSID	Differential	8-Pin Dip	MSP6944-ND	35.08	30.70	24.56	1220A-100D-3L
Model 1230 / 1240 - Ultrastable							
0-15PSID	Differential	8-Pin Dip	MSP6819-ND	43.89	38.41	30.73	1240-015D-3L
0-15PSID	Differential	8-Pin Dip	MSP6945-ND◆	43.90	38.42	30.73	1230-015D-3L
0-30PSID	Differential	8-Pin Dip	MSP6822-ND◆	43.89	38.41	30.73	1230-030D-3L
0-100PSID	Differential	8-Pin Dip	MSP6828-ND	43.89	38.41	30.73	1230-100D-3L
0-100PSID	Differential	8-Pin Dip	MSP6829-ND◆	43.89	38.41	30.73	1240-100D-3L

◆ ***RoHS Compliant***

PC Board Mountable Pressure Sensors 44xx Series

Fig. 1

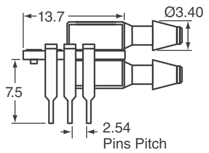

Fig. 2

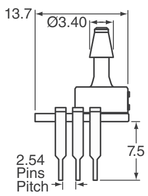

Dim. in mm

Model 4425 and 4426
These pressure sensors are temperature compensated, piezoresistive silicon pressure sensors packaged in a dual-in-line configuration and intended for cost sensitive applications where excellent performance and long-term stability are required. **Features:** • Dual in-line package • Solid state reliability **Specifications:** • Output: 0 ~ 100mV • Supply voltage: 12V (typical) • Operating temperature range: -25°C ~ 85°C

Pressure	Pressure Type	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Fig. 1 — Model 4425						
1PSID	Differential	223-1089-ND	34.08	29.82	23.86	4425-001D
5PSID	Differential	223-1090-ND	34.08	29.82	23.86	4425-005D
15PSID	Differential	223-1091-ND	34.08	29.82	23.86	4425-015D
15PSIA	Absolute	223-1092-ND	34.08	29.82	23.86	4425-015A
100PSID	Differential	223-1093-ND	34.08	29.82	23.86	4425-100D
Fig. 2 — Model 4426						
1PSIG	Gage	223-1094-ND	34.08	29.82	23.86	4426-001G
5PSIG	Gage	223-1095-ND	34.08	29.82	23.86	4426-005G
15PSIG	Gage	223-1096-ND	34.08	29.82	23.86	4426-015G
15PSIA	Absolute	223-1097-ND	34.08	29.82	23.86	4426-015A

PC Board Mountable Pressure Sensors

Model 1451
This pressure sensor is intended for high volume applications where small size, light weight, low cost, and compatibility with automated assembly equipment are required.
Features: • SMT Package • ±0.25% Pressure Non-linearity • 3 Pressure Port Options • Solid State Reliability • Low Power **Specifications:** • **Output:** 0 ~ 60mV • **Supply Voltage:** 3VDC • **Response Time:** 1.0mSec typical • **Operating Temperature:** -40°C ~ 125°C

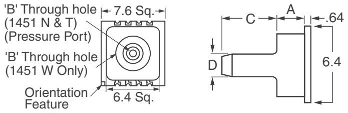

Package	Dimensions (mm) A	B	C	D
Narrow Hole	2.79	0.78	—	—
Wide Hole	2.79	4.06	—	—
Tube	2.79	0.78	5.59	2.29

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
0-5PSIG	Gage	Tube	MSP6800-ND◆	35.19	28.15	19.71	1451-005G-T
0-5PSIA	Absolute	Wide	MSP6801-ND	35.19	28.15	19.71	1451-005A-W
0-15PSIA	Absolute	Narrow	MSP6802-ND◆	35.19	28.15	19.71	1451-015A-N
0-15PSIG	Gage	Tube	MSP6803-ND◆	35.19	28.15	19.71	1451-015G-T
0-30PSIA	Absolute	Narrow	MSP6805-ND	35.19	28.15	19.71	1451-030A-N
0-30PSIG	Gage	Tube	MSP6806-ND	35.19	28.15	19.71	1451-030G-T
0-30PSIA	Absolute	Wide	MSP6807-ND	35.19	28.15	19.71	1451-030A-W
0-50PSIA	Absolute	Narrow	MSP6808-ND◆	35.19	28.15	19.71	1451-050A-N
0-50PSIG	Gage	Tube	MSP6809-ND◆	35.19	28.15	19.71	1451-050G-T
0-50PSIA	Absolute	Wide	MSP6810-ND	35.19	28.15	19.71	1451-050A-W
0-100PSIA	Absolute	Narrow	MSP6811-ND◆	35.19	28.15	19.71	1451-100A-N
0-100PSIG	Gage	Tube	MSP6812-ND◆	35.19	28.15	19.71	1451-100G-T
0-100PSIA	Absolute	Wide	MSP6813-ND◆	35.19	28.15	19.71	1451-100A-W

◆ ***RoHS Compliant***

UltraStable™ Stainless Steel Pressure Sensors Ribbon Cable with Connector

Features: • Gage Pressure type • -20°C ~ 85°C Compensated temperature range • ±1.0% Interchangeable Span (provided by gain set resistor) • High performance • Small profile • Solid State reliability • Low power • ±0.1% Pressure non-linearity

Specifications: • **Output:** 0mV~100mV • **Supply Current:** 1.5mA typical (guarantees output/input ratiometricity) • **Operating Temperature:** -40°C ~ 125°C

Fig. 1

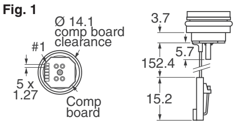

Fig. 2

Model	Dimensions (mm) A	B	C
1/8 - 27 NPT	22.2	19.1	9.5
1/4 - 18 NPT	15.9	18.5	6.2

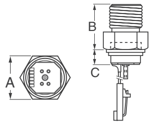

Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Model 82 , O-Ring Flush Mount — RoHS Compliant							
1	0-1PSIG	5MΩ Min.	MSP6927-ND	107.28	91.96	79.70	82-001G-C
	0-15PSIG	5MΩ Min.	MSP6928-ND	89.55	75.03	65.35	82-015G-C
	0-30PSIG	5MΩ Min.	MSP6929-ND	89.55	75.03	65.35	82-030G-C
	0-100PSIG	5MΩ Min.	MSP6930-ND	89.55	75.03	65.35	82-100G-C
	0-300PSIG	5MΩ Min.	MSP6931-ND	89.55	75.03	65.35	82-300G-C
	0-15PSIA	5MΩ Min.	MSP6932-ND	89.55	75.03	65.35	82-015A-C
	0-30PSIA	5MΩ Min.	MSP6933-ND	89.55	75.03	65.35	82-030A-C
	0-100PSIA	5MΩ Min.	MSP6934-ND	89.55	75.03	65.35	82-100A-C
	0-300PSIA	5MΩ Min.	MSP6935-ND	89.55	75.03	65.35	82-300A-C
	0-500PSIA	5MΩ Min.	MSP6936-ND	89.55	75.03	65.35	82-500A-C
Model 85, 1/4" - 18 NPT							
2	0-15PSIG	5MΩ Min.	MSP6853-ND	88.61	74.24	64.66	85-015G-4C
	0-30PSIG	5MΩ Min.	MSP6854-ND◆	88.61	74.24	64.66	85-030G-4C
	0-50PSIG	5MΩ Min.	MSP6855-ND◆	88.61	74.24	64.66	85-050G-4C
	0-100PSIG	5MΩ Min.	MSP6856-ND◆	88.61	74.24	64.66	85-100G-4C
	0-300PSIG	5MΩ Min.	MSP6857-ND◆	88.61	74.24	64.66	85-300G-4C
	0-500PSIG	5MΩ Min.	MSP6858-ND◆	88.61	74.24	64.66	85-500G-4C
	0-15PSIA	5MΩ Min.	MSP6916-ND◆	88.61	74.24	64.66	85-015A-4C
	0-30PSIA	5MΩ Min.	MSP6917-ND◆	88.61	74.24	64.66	85-030A-4C
2	0-100PSIA	5MΩ Min.	MSP6918-ND◆	88.61	74.24	64.66	85-100A-4C
	0-300PSIA	5MΩ Min.	MSP6919-ND◆	88.61	74.24	64.66	85-300A-4C
	0-500PSIA	5MΩ Min.	MSP6920-ND◆	88.61	74.24	64.66	85-500A-4C
Model 86, O-Ring Flush Mount							
1	0-5PSIG	1MΩ Min.	MSP6859-ND◆	80.03	67.06	58.41	86-005G-C
	0-15PSIG	1MΩ Min.	MSP6860-ND◆	80.03	67.06	58.41	86-015G-C
	0-30PSIG	1MΩ Min.	MSP6861-ND◆	80.03	67.06	58.41	86-030G-C
	0-50PSIG	1MΩ Min.	MSP6862-ND◆	80.03	67.06	58.41	86-050G-C
	0-100PSIG	1MΩ Min.	MSP6863-ND◆	80.03	67.06	58.41	86-100G-C
	0-300PSIG	1MΩ Min.	MSP6864-ND	80.03	67.06	58.41	86-300G-C
	0-500PSIG	1MΩ Min.	MSP6865-ND	80.03	67.06	58.41	86-500G-C
	0-5PSIA	5MΩ Min.	MSP6921-ND◆	80.03	67.06	58.41	86-005A-C
	0-15PSIA	5MΩ Min.	MSP6922-ND◆	80.03	67.06	58.41	86-015A-C
	0-100PSIA	5MΩ Min.	MSP6924-ND◆	80.03	67.06	58.41	86-100A-C
	0-300PSIA	5MΩ Min.	MSP6925-ND◆	80.03	67.06	58.41	86-300A-C
	0-500PSIA	5MΩ Min.	MSP6926-ND◆	80.03	67.06	58.41	86-500A-C
Model 87N, 1/8" - 27 NPT — RoHS Compliant							
2	0-1000PSIA	5MΩ Min.	MSP6937-ND	90.61	77.67	67.31	87N-1000A-8C
	0-3000PSIA	5MΩ Min.	MSP6938-ND	90.61	77.67	67.31	87N-3000A-8C
	0-5000PSIA	5MΩ Min.	MSP6939-ND	90.61	77.67	67.31	87N-5000A-8C

◆ ***RoHS Compliant***

measurement
SPECIALTIES

GCD-SE Series Gage Heads - Precision Spring-Loaded

Features: • CE compliance • Heavy-duty, all welded construction • Unipolar ranges: 0.1" ~ 2.0" • 8.5VDC ~ 28VDC operation • Low power consumption • May be battery operated • 0VDC ~ 5VDC and 1VDC ~ 6VDC outputs • New heavy duty front end • Hermetically sealed design

GCD-SE Series Model No.	Linear Range Inches (mm)	Digi-Key Part No.	Price Each 1	5	10	Measurement Specialties Part No.
GCD-SE-100	0.10 (2.54)	356-1005-ND	526.50	470.56	442.26	02351006-000
GCD-SE-500	0.50 (12.7)	356-1007-ND	673.06	602.16	565.50	02351008-000
GCD-SE-1000	1.0 (25.4)	356-1008-ND	708.21	633.77	595.14	02351009-000
GCD-SE-2000	2.0 (50.8)	356-1009-ND	765.14	684.81	642.72	02351010-000

AccuStar® II Clinometer

AccuStar II combines the function of two clinometers in one package. The unique dome shaped design features a capacitance based sensor which produces output signals directly proportional to the relative tilt in two axis.
Features: • Two clinometers in one package • Adaptable design DC powered • Ratiometric and PW digital output in one model • Trimmable DC output

Description	Linear Range	Op. Temp. Range	Digi-Key Part No.	Price Each 1	10	25	Measurement Specialties Part No.
Dual Axis Clinometer	±20°	-20°C ~ 75°C	356-1034-ND	125.36	119.09	112.83	02119011-000

Rotary Variable Inductance Transducer (RVIT)

The R120LC is a DC operated noncontact rotary transducer.

Description	Full Range	Input Voltage	Output Voltage	Digi-Key Part No.	Price Each 1	5	20	Measurement Specialties Part No.
R120LC Transducer	±60°	4.75-5.25VDC	0.5-4.5VDC	356-1076-ND	147.23	134.96	122.69	02183000-000

AngleStar® Digital Protractor

The AngleStar Digital Protractor Model DP-45 provides instant digital display of level, angle and tilt.
Features: • Reads in degrees • Alternate reference (floating zero) • Display hold • High impact plastic carrying case

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each 1	5	20	Measurement Specialties Part No.
Digital Protractor Model DP-45	±45°	0°C ~ 65°C	356-1035-ND	368.85	347.37	313.95	02475-01

DC Powered Voltage Module

The LVM-110 Module is a DC-powered LVDT signal conditioner board consisting of a carrier oscillator, AC amplifier, demodulator, filter, and DC amplifier.

Features: • DC powered • Zero and span controls • Six jumper selectable gains • Plug-in, card edge, or stand-off installation • 2.5kHz, 5kHz or 10kHz excitation

Description	Operating Range	Power Range	Digi-Key Part No.	Price Each 1	5	10	Measurement Specialties Part No.
LVDT Signal Conditioner Board	3.5 ± 10% Vrms	2.5kHz, 5kHz, 10kHz	356-1001-ND	156.80	146.18	137.32	04171776-000

Dual Channel LVDT Readout/Controller

The Measurement Specialties microprocessor based LVDT indicator and set-point controller is designed for industrial and process control applications utilizing any LVDT/RVDT-based measurement device.

Features: • 1/4 DIN aluminum case • EL back-lit • LCD display • Standard 9-Pin RS-232 Connector

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each	Measurement Specialties Part No.
MP2000 Series	<±0.02%	0°C ~ 55°C	356-1075-ND	812.15	02291335-000

AccuStar® Electronic Clinometers

The AccuStar Electronic Clinometer is an extremely accurate angle measurement device. This compact and rugged sensor is ideal where space is critical and environmental conditions are serious design concerns.
Features: • CE certified • Just 2" in diameter • Rugged plastic housing • Extremely accurate • Weighs only 2 oz.

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	25	Measurement Specialties Part No.
Single Axis Ratiometric Vertical Flange	±45°	-30°C ~ 65°C	356-1032-ND	151.95	139.93	127.91	02110002-000
Single Axis Ratiometric Horizontal Flange	±45°	-30°C ~ 65°C	356-1033-ND	151.95	139.93	127.91	02110102-000

Ares Series Pressure Transducers

The Ares Series is a small, low cost pressure transducer, which is able to measure pressures as low as 0 ~ 5, 0 ~ 10, 0 ~ 15 inches of water, and 0 ~ 1psig.
Features: • Very low pressure ranges • Small size • PCB mountable • Solder reflow capability • Barbed pressure ports

LM Series Pressure Sensors

The LM Series incorporates stainless steel and plastic isolation suitable for water, other fluid and gas.
Features: • Low pressure ranges • High level output • Small size • Plastic fitting

Description	Output Voltage	Standard Pressure Range	Accuracy % FSO	Digi-Key Part No.	Price Each 1	10	25	Measurement Specialties Part No.
				Ares Series				
PCB Mount	0.5-4.5V	5" H_2O	0.25	356-1036-ND◆	47.15	39.51	36.96	GA100-005WD
PCB Mount	0.5-4.5V	10" H_2O	0.50	356-1037-ND	47.15	39.51	36.96	GA100-010WD
PCB Mount	0.5-4.5V	15" H_2O	0.50	356-1038-ND	47.15	39.51	36.96	GA100-015WD
PCB Mount	0.5-4.5V	1PSI	0.75	356-1039-ND◆	47.15	39.51	36.96	GA100-001PD
PCB Mount	0.25-4.5V	5" H_2O	0.25	356-1040-ND	47.15	39.51	36.96	GA200-005WD
PCB Mount	0.25-4.5V	10" H_2O	0.50	356-1041-ND	47.15	39.51	36.96	GA200-010WD
PCB Mount	0.25-4.5V	15" H_2O	0.50	356-1042-ND	47.15	39.51	36.96	GA200-015WD
PCB Mount	0.25-4.5V	1PSI	1.2	356-1043-ND	47.15	39.51	36.96	GA200-001PD
				LM Series — RoHS Compliant				
1/2" NPT, Plastic Fitting	0.5-4.5V	1PSI	0.25	356-1072-ND	120.27	103.09	92.78	LM31-00000F-001PG
1/2" NPT, Plastic Fitting	0.5-4.5V	5PSI	0.25	356-1073-ND	120.27	103.09	92.78	LM31-00000F-005PG
1/2" NPT, Plastic Fitting	0.5-4.5V	30PSI	0.25	356-1074-ND	120.27	103.09	92.78	LM31-00000F-030PG

◆ ***RoHS Compliant***

High Stability Stainless Steel Pressure Transducer

RoHS COMPLIANT

The UltraStable 300/600 from Measurement Specialties, incorporates an ultra-rugged IP 67 rated housing. All wetted parts are constructed of 316 (300 Series)/316L (600 Series) stainless steel, providing media isolation and no internal "O" rings.

		U300	U600
Pressure Range (PSIG)		0-15 ~ 500	0-15 ~ 500
Accuracy (combined linearity, hysteresis and repeatability)		±0.10% of FS	±0.10% of FS
Pressure Overload		3X	3X
Burst Pressure		4x or 20,000 PSI	
Outputs VDC or mA		0.5-4.5V 4-20mA	0.5-4.5V 4-20mA
Zero Offset (amplified output)		±0.50% of FS	±0.50% of FS
Span Tolerance		±0.50% of FS	±0.50% of FS
Long-Term Stability, Typical		±0.10% of FS/Year	±0.10% of FS/Year
Operating Temperature	**(°F)**	(-40 ~ 221)	(-58 ~ 257)
	(°C)	(-40 ~ 105)	(-50 ~ 125)
Thermo Zero Shift		±0.75% of FS	—
Thermo Span Shift		±0.75% of FS	—

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
			0.5-4.5V Output — 1/4" NPT, 2 Foot Cable				
U331	15PSIG	4.75-5.25 VDC	356-1044-ND	131.38	112.62	97.60	US331-000005-015PG
	30PSIG	4.75-5.25 VDC	356-1045-ND	131.38	112.62	97.60	US331-000005-030PG
	100PSIG	4.75-5.25 VDC	356-1046-ND	131.38	112.62	97.60	US331-000005-100PG
	500PSIG	4.75-5.25 VDC	356-1047-ND	131.38	112.62	97.60	US331-000005-500PG
	15PSIA	4.75-5.25 VDC	356-1048-ND	131.38	112.62	97.60	US331-000005-015PA
	30PSIA	4.75-5.25 VDC	356-1049-ND	131.38	112.62	97.60	US331-000005-030PA
	100PSIA	4.75-5.25 VDC	356-1050-ND	131.38	112.62	97.60	US331-000005-100PA

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
			4-20mA Output — 1/4" NPT, 2 Foot Cable				
U381	15PSIG	10-30 VDC	356-1051-ND	138.46	118.68	102.86	US381-000005-015PG
	30PSIG	10-30 VDC	356-1052-ND	138.46	118.68	102.86	US381-000005-030PG
	100PSIG	10-30 VDC	356-1053-ND	138.46	118.68	102.86	US381-000005-100PG
	500PSIG	10-30 VDC	356-1054-ND	138.46	118.68	102.86	US381-000005-500PG
	15PSIA	10-30 VDC	356-1055-ND	138.46	118.68	102.86	US381-000005-015PA
	30PSIA	10-30 VDC	356-1056-ND	138.46	118.68	102.86	US381-000005-030PA
	100PSIA	10-30 VDC	356-1057-ND	138.46	118.68	102.86	US381-000005-100PA
			0.5-4.5V Output — 1/4" NPT, 2 Foot Cable				
U631	15PSIG	4.75-5.25 VDC	356-1058-ND	160.00	132.00	120.00	US631-C00005-015PG
	30PSIG	4.75-5.25 VDC	356-1059-ND	160.00	132.00	120.00	US631-C00005-030PG
	500PSIG	4.75-5.25 VDC	356-1061-ND	160.00	132.00	120.00	US631-C00005-500PG
	15PSIA	4.75-5.25 VDC	356-1062-ND	160.00	132.00	120.00	US631-C00005-015PA
			4-20mA Output 1/4" NPT, 2 Foot Cable				
U681	15PSIG	10-30 VDC	356-1065-ND	205.00	173.00	153.75	US681-C00005-015PG
	30PSIG	10-30 VDC	356-1066-ND	205.00	173.00	153.75	US681-C00005-030PG
	100PSIG	10-30 VDC	356-1067-ND	205.00	173.00	153.75	US681-C00005-100PG
	500PSIG	10-30 VDC	356-1068-ND	205.00	173.00	153.75	US681-C00005-500PG
	15PSIA	10-30 VDC	356-1069-ND	205.00	173.00	153.75	US681-C00005-015PA
	30PSIA	10-30 VDC	356-1070-ND	205.00	173.00	153.75	US681-C00005-030PA
	100PSIA	10-30 VDC	356-1071-ND	205.00	173.00	153.75	US681-C00005-100PA

N

measurement SPECIALTIES

Load Cells

Dimensions in mm

Measurement Specialties Sensors' proprietary Microfused™ technology, derived from demanding aerospace applications, employs micro-machined silicon piezo-resistive strain gages fused with high temperature glass to a high performance stainless steel substrate.

Features: • Low Cost • Small Size • High Reliability • Fast Response Time • Robust: High Over range Capability

Fig. 1

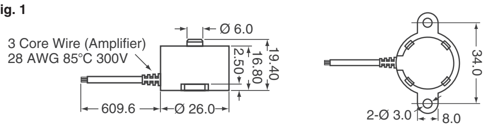

Fig. 2

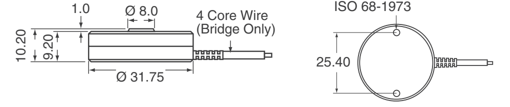

Fig.	Compression/Tension Range (Lbf)	Excitation (VDC)	Output Span Voltage @±5% Tolerance	Storage/Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
1	10	3.3 ~ 5.0	0.5 ~ 4.5 V	-40°C ~ 85°C	MSP6948-ND	63.53	51.17	38.13	FC2231-0000-0010-L
	25	3.3 ~ 5.0	0.5 ~ 4.5 V	-40°C ~ 85°C	MSP6949-ND	63.53	51.17	39.27	FC2231-0000-0025-L
	50	3.3 ~ 5.0	0.5 ~ 4.5 V	-40°C ~ 85°C	MSP6950-ND	63.53	51.17	38.13	FC2231-0000-0050-L
2	250	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6952-ND	127.05	98.18	76.24	FC2311-0000-0250-L
	500	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6953-ND	127.05	98.18	79.71	FC2311-0000-0500-L
	1000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6954-ND	127.05	98.18	76.24	FC2311-0000-1000-L
	2000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6955-ND	127.05	98.18	79.71	FC2311-0000-2000-L

Senstronics

Sensors with Temperature Output

Senstronics Storm Series is a unique product providing a lifetime of accuracy for combined pressure/temperature applications used in harsh media requiring stainless steel wetted parts. The 17-4PH stainless steel sensor design allows for a wide range of temperature and provides a rugged design that can withstand high levels of shock and vibration.

Specification: • 1/4 NPTF *Note: Mating harness included with each sensor.*

Dimensions in mm

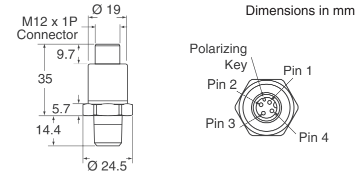

Operating Pressure Range (PSIG)	Operating Temperature Range	Output Voltage	Supply Voltage Range (V)	Digi-Key Part No.	Price Each	Senstronics Part No.
250	-40°C ~ 125°C	0.5 ~ 4.5	8 ~ 30	ST00638-ND	52.80	ST00638
500	-40°C ~ 125°C	0.5 ~ 4.5	8 ~ 30	ST00223-ND	52.80	ST00223

HUMIREL **measurement SPECIALTIES**

Sensors

The relative humidity sensors by Humirel are based on capacitive cell technology using a patented solid polymer structure. They are fully interchangeable with no calibration required in standard conditions. Suitable for linear voltage or frequency output circuitry. An NTC thermistor is used for temperature measurement.

The RH modules are based on the HS1101LF capacitive humidity sensor and are voltage output devices. The RH/Temperature modules include a NTC thermistor for temperature measurement and are voltage or frequency output.

Features:
- High reliability and long term stability
- Instantaneous de-saturation after long periods in saturation conditions
- Fast response times
- Patented solid polymer structure

Dimensions in mm

Fig. 1

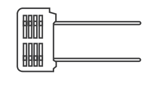

Fig. 2

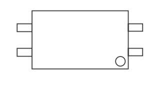

Fig. 3

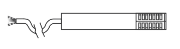

Fig. 4

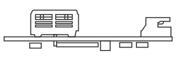

Fig. 5

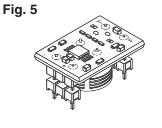

Fig. 6

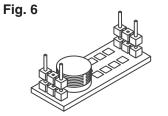

Fig. 7

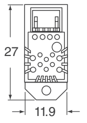

Fig. 8

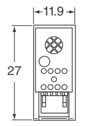

Fig.	Description	Supply Voltage (Typ.)	Nom. Cap. @55% RH	Response Time	Nominal Out	RH Measuring Range	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100
	Sensors — RoHS Compliant										
1	RH Sensor Side Opening	5V	180pF	—	—	1 ~ 99% RH	-60°C ~ 140°C	HS1101LF-ND	14.43	12.80	10.83
2	Temp./RH Sensor SMD Side Opening	5V	180pF	10 Sec.	—	1 ~ 99% RH	-60°C ~ 140°C	HTS2030SMD-ND	22.29	19.77	16.72
	Modules										
3	Temp./RH Module Voltage Output	5V	—	—	2.48V @55% RH	1 ~ 99% RH	-30°C ~ 70°C	HTM2500LF-ND	79.80	71.25	57.00
4	Temp./RH Module Frequency Output JST Conn.	5V	—	10 Sec.	8750Hz @55% RH	0 ~ 99% RH	-30°C ~ 80°C	HTF3226LF-ND◆	21.60	20.30	16.24
5	Temp./RH Module Frequency Output Mini	5V	—	10 Sec.	6600Hz @55% RH	0 ~ 100% RH	-40°C ~ 85°C	HTF3000LFPVH-ND◆	25.27	23.75	19.00
6	Temp./RH Module Voltage Output Analog	5V	—	10 Sec.	2.48V @55% RH	0 ~ 100% RH	-40°C ~ 100°C	HTM1735LF-ND◆	33.68	31.65	25.32
7	Temp./RH Module, Side Conn. with Tab, Vout	5V	—	5 Sec.	2.48V @55% RH	0 ~ 100% RH	-40°C ~ 110°C	HTG3515CH-ND◆	22.56	18.39	15.80
8	Temp./RH Module, Side Conn. Vout	5V	—	5 Sec.	2.48V @55% RH	0 ~ 100% RH	-40°C ~ 110°C	HTG3535CH-ND◆	22.56	18.39	15.80
Demo Kit Includes: 1 x HM1500, 1 x HM1510 and 5 x HS1101								HDEMOKIT-ND†	135.50	—	—

◆ ***RoHS Compliant*** † HM1510 - HM1500 with socket at tip to accept HS1101 to test interchangeability

Honeywell
Sensing and Control

Capacitive Humidity Sensors

Digi-Reel®

HCH-1000 Series humidity sensor is a capacitive polymer sensor designed for relative humidity measurement. **Features:** • Polymer sensing offers enhanced resistance against contamination • Enhanced sensitivity and accuracy, fast response **Operating Temperature Range:** -40°C ~ 120°C **Operating Humidity Range:** 0 ~ 100%

HIH-40xx and HIH-50xx Series humidity sensors are designed specifically for high volume OEM users. **Features:** • Molded thermoset plastic housing • Near linear voltage output vs. % RH **Operating Temperature Range:** -40°C ~ 85°C **Operating Humidity Range:** 0 ~ 100%

HIH-4602 Series relative humidity sensors combine both relative humidity and temperature sensing in a TO-5 housing with a hydrophobic sintered stainless steel filter. **Features:** • Near linear voltage output vs % RH • Chemically resistant • Built-in static protection • TO-5 housing

HCH-1000 Series

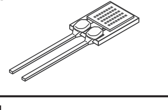

HIH-4000 Series

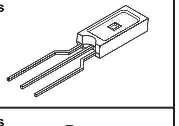

HIH-4030/31 and HIH-5030/31 Series

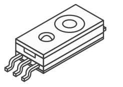

HIH-4602 Series

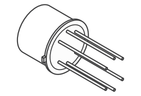

Nom. Cap. @55% RH (Typ.)	Sensitivity pF/% RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
			HCH-1000 Series				
330pF	0.55/0.65	15	480-2903-ND	5.26	3.61	3.24	HCH-1000-001
330pF	0.55/0.65	15	480-2904-ND	5.39	3.69	3.32	HCH-1000-002

Supply Voltage (Vdc) Min. / Max.	Accuracy % RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	25	Tape & Reel‡ Pricing 1,000	Honeywell Part No.
			HIH-4000 Series					
4/5.8	-3.5/+3.5	15	480-2905-ND	21.33	16.97	15.90	—	HIH-4000-001
4/5.8	-3.5/+3.5	15	480-2906-ND	24.41	19.42	18.20	—	HIH-4000-003
			HIH-4030 Series					
4/5.8	-3.5/+3.5	5	480-3166-1-ND†	13.69	10.48	9.90	7122.00	HIH-4030-001
4/5.8	-3.5/+3.5	5	480-3167-ND	13.74	10.52	9.94	—	HIH-4030-003
			HIH-4031 Series					
4/5.8	-3.5/+3.5	5	480-3168-1-ND†	17.17	13.14	12.41	8932.00	HIH-4031-001
4/5.8	-3.5/+3.5	5	480-3169-ND	16.85	12.90	12.19	—	HIH-4031-003
			HIH-4602 Series					
4/5.8	-3.5/+3.5	50	480-3178-ND	60.11	49.80	47.65	—	HIH-4602-C
			HIH-5030 Series					
2.7/5.5◊	-3.0/+3.0▲	5	480-3294-1-ND†	11.23	8.22	7.70	5419.00	HIH-5030-001
			HIH-5031 Series					
2.7/5.5◊	-3.0/+3.0▲	5	480-3284-1-ND†	14.11	10.80	10.20	7342.00	HIH-5031-001

◊ Device is tested @3.3Vdc and 25°C ▲ Total accuracy including interchangeability is ±3% RH.
† Cut Tape ‡ For Tape & Reel part number, change 1-ND to 2-ND.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Distributor
GE Sensing & Inspection Technologies

ChipCap Humidity and Temperature Sensors

Features: • Simultaneous relative humidity and temperature outputs • Precision accuracy ±2% RH, ±0.6°C • Factory selectable analog or digital outputs • Supply voltage: 3.0V ~ 5.5V • 14-SOP package

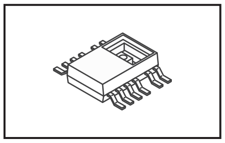

Output Type	Measuring Range (%) RH	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
0 ~ 1 VDC Linear	0 ~ 100	CHIPCAP-L-50-TUBE-ND	22.74	19.90	15.43	CHIPCAP-L-50-TUBE
0.5 ~ 4.5 VDC Ratiometric	0 ~ 100	CHIPCAP-R-50-TUBE-ND	22.74	19.90	15.43	CHIPCAP-R-50-TUBE
Digital	0 ~ 100	CHIPCAP-D-50-TUBE-ND	34.16	29.89	23.18	CHIPCAP-D-50-TUBE

TDK CHS Series Humidity Sensors

Dim. in mm

TDK's CHS Series humidity sensors are compact and extremely simple to apply. Because they contain the necessary circuitry, there is no need to provide additional control circuitry or perform time-consuming calibration. With simple connection to a power supply, they will output DC at 100% relative humidity. This makes it possible to read RH directly with a voltmeter.

Fig.	Supply Voltage (VDC)	Measuring Range (%) RH	Nominal Accuracy RH	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
1	5	5 ~ 95	±5%	445-2577-ND	51.01	45.92	40.82	CHS-UGS
	5	5 ~ 95	±3%	445-2578-ND	74.40	63.77	55.27	CHS-UPS
2	5	5 ~ 95	±3%	445-2579-ND	74.40	63.77	55.27	CHS-UPR
3	5	5 ~ 90	±5%	445-2575-ND	34.01	30.61	27.21	CHS-GSS
	5	20 ~ 85	±5%	445-2576-ND	23.81	21.43	19.05	CHS-MSS

Fig. 1

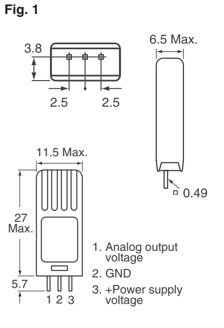

1. Analog output voltage
2. GND
3. +Power supply voltage

Fig. 2

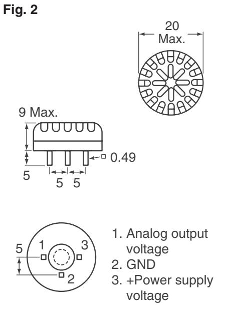

1. Analog output voltage
2. GND
3. +Power supply voltage

Fig. 3

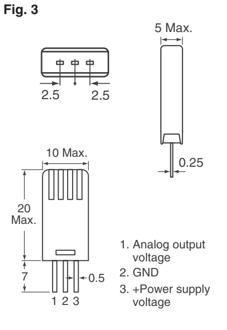

1. Analog output voltage
2. GND
3. +Power supply voltage

Ultrasonic Nebulizer Units

The TDK ultrasonic humidifier unit was the first such product in the world to be developed. In addition to such home uses, these ultrasonic humidifier units have numerous advantages for humidification of vegetable showcases, preservation and growth of agricultural products, industrial applications, etc.

NB-59S-09S-0:

- Compact with highly reliable circuitry
- Separate transducer and drive circuit sections provide superior layout versatility

NB-80E-01-H:

- Compact with highly reliable circuitry
- Separate transducer and drive circuit sections provide superior layout versatility
- Because the ultrasonic frequencies used are higher than with typical household-type units, mist particle size is extremely fine. This unit is thus ideal for products intended for smaller spaces

Fig.	Rated Input Voltage (VAC)	Power Consumption (W)	Ultrasonic Frequency (kHz)	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
1	48	30 ±5	1,600 ~ 1,750	445-4833-ND	80.00	70.00	65.00	NB-59S-09S-0
2	48	13.2 max.	2,350 ~ 2,600	445-4831-ND	96.00	84.00	78.00	NB-80E-01-H

Fig. 1

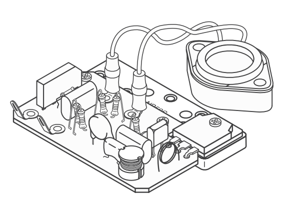

68mm x 54mm

Fig. 2

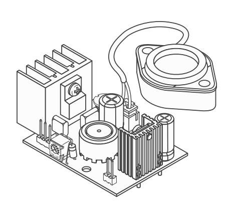

65mm x 40mm

EPCOS

NEW! Pressure Sensors

These transmitters are based on piezoresistive silicon pressure sensors from Epcos' own clean room. This series electronically compensates nonlinearity and temperature errors and supplies a precise calibrated output signal with a high immunity against EMI.

Features: • Piezoresistive MEMS technology • Measured media (gauge pressure): Air and non-aggressive gases (0~100% r.h.) and non-aggressive fluids

Specifications: Operating Temperature Range: -25°C ~ 85°C

Fig.	Rated Pressure (mbar)	Supply Voltage	Output	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	100	7.5 ~ 30	0.5 ~ 4.5V	495-4123-ND	163.22	137.83	119.70	B58621H5810A023
	10,000	7.5 ~ 30	0.5 ~ 4.5V	495-4124-ND	163.22	137.83	119.70	B58621H5810A029
	100	10 ~ 30	4 ~ 20mA	495-4125-ND	177.43	149.83	130.12	B58621H5820A040
	10,000	10 ~ 30	4 ~ 20mA	495-4126-ND	177.43	149.83	130.12	B58621H5820A046
2	100	4.75 ~ 5.5	0.5 ~ 4.5V	495-4127-ND	69.03	58.30	50.63	B58621K1110A054
	1,000	4.75 ~ 5.5	0.5 ~ 4.5V	495-4128-ND	69.03	58.30	50.63	B58621K1110A057
	100	4.75 ~ 5.5	0.5 ~ 4.5V	495-4129-ND	67.54	57.04	49.53	B58621K1510A062
	10,000	4.75 ~ 5.5	0.5 ~ 4.5V	495-4130-ND	67.54	57.04	49.53	B58621K1510A068

Fig. 1 Dim. in mm

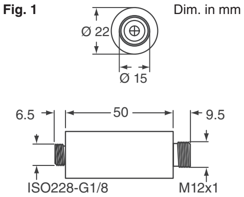

Fig. 2

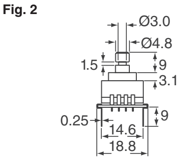

VISHAY. BCcomponents

Capacitive Humidity Sensor

The capacitive atmospheric humidity sensor consists of a non-conductive foil, which is covered on both sides with a layer of gold. The dielectric constant of the foil changes as a function of the relative humidity of the ambient atmosphere, and accordingly, the capacitance value of the sensor is a measure for relative humidity.

Humidity Range (RH)	Capacitance† (pF)	Sensitivity Between 12-75% RH (pF/%RH)	Frequency (kHz)	Max. AC / DC Voltage (V)	Storage Humidity Range (RH)	Ambient Temperature Range (°C) Operating	Storage	Digi-Key Part No.	Price Each 1	10	50	Vishay Part No.
10 ~ 90%	122 ±15%	0.4 ±0.05	1 ~ 1000	15	0 ~ 100%	0 ~ 85	-25 ~ 85	BC2325-ND	10.76	10.10	8.30	2381 691 90001

† Capacitance at 25°C; 43% RH; 100kHz

Dim. in mm

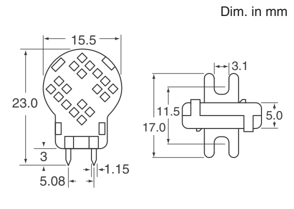

N

OMRON® Capacitive Proximity Sensors

Features:
Capacitive sensors operate similar to Inductive sensors except that a plate is used instead of a coil in the sensor's head. This plate develops a capacitive field between the sensor and ground. When an object comes within sensing distance of the sensor, the capacitive field changes which gets detected by the sensor and turns on the output. Perfect for detecting both metallic and non-metallic objects such as glass, wood, water, oils and plastics. Also works well for detecting liquids and solids in containers.

Sensing Distance (mm)	Description	Output Type	Digi-Key Part No.	Price Each	Omron Part No.
3 ~ 25	Amplified Sensor, Adjustable, NO, 10-40VDC	NPN	Z1071-ND	140.94	E2K-C25ME1
3 ~ 25	Amplified Sensor, Adjustable, NC, 10-40VDC	NPN	Z1072-ND	140.94	E2K-C25ME2
3 ~ 25	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1073-ND	179.82	E2K-C25MY1
3 ~ 25	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1074-ND	179.82	E2K-C25MY2
Mounting Bracket for E2K-C Sensors		—	Z1659-ND	5.92	Y92E-A34
0 ~ 4	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2356-ND	111.78	E2K-X4MF1
0 ~ 8	M18, 3 Wire Sensor, THD Body, NO, 30VDC	PNP	Z2426-ND	114.70	E2K-X8MF1
0 ~ 15	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2427-ND	116.64	E2K-X15MF1
0 ~ 4	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2423-ND	111.78	E2K-X4ME1
0 ~ 8	M18, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2424-ND	114.70	E2K-X8ME1
0 ~ 15	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2425-ND	116.64	E2K-X15ME1
0 ~ 8	M18, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2421-ND	136.08	E2K-X8MY1
0 ~ 15	M30, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2422-ND	145.80	E2K-X15MY1

Adjustable Style:

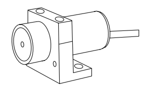

Threaded Body Style:

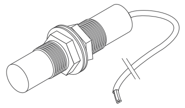

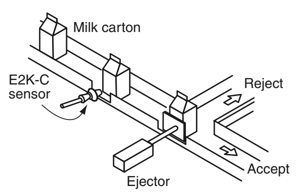

Photoelectric Sensors

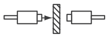

Through Beam

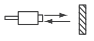

Reflective/Diffuse

Features: Photoelectric sensors consist of a light source and detector for object detection. **Through-beam** sensors use a separate transmitter and receiver, which an object must pass between to block the light. **Retroflective** sensors is a combined transmitter/receiver in one body and is reflected. A reflector typically is used to return the beam from the transmitter back to the receiver. Once an object is moved between the reflector and emitter/detector, the receiver output turns on. **Diffuse** reflective is a combined transmitter/receiver in one body. Objects are detected by moving an object closer to the sensor directly from the front, rather than from the side. Once an object has come within the sensing distance, the amount of reflected light is sufficient to trigger the receiver output.

- **XN2** connectors are easy connect (e-CON) connectors with spring loaded terminals for industrial applications and fast wire termination.
- **XS5** connectors feature an 1/8 turn smart click connection that is fully IP67 sealed. Offered in both single and double ended styles.

Fig. 1

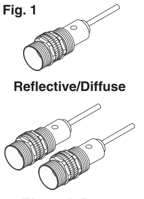

Fig. 2

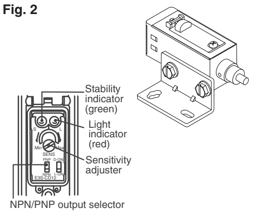

Fig. 3

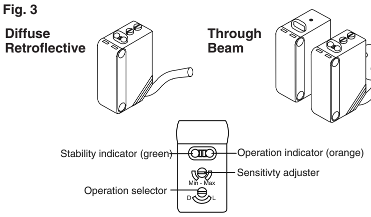

Fig. 4

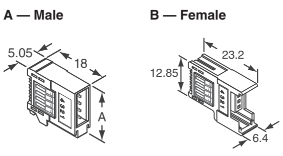

XN2x-xx3x: Tin Alloy
XN2x-xx7x: Tin Plating

Fig. 5

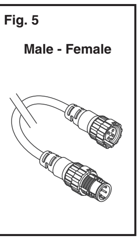

Fig.	Description	Sensing Distance	Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
	Sensors							
1	M18, Diffused Photoelectric Sensor, 10 ~ 30VDC, Nickel Plated Brass	3.94" (10cm)	NPN	Z1087-ND	75.12	69.56	64.92	E3F2-DS10C4-N
	M18, Diffused Photoelectric Sensor, 24 ~ 240VAC, Plastic Housing	3.94" (10cm)	NPN	Z1088-ND	93.26	86.36	80.60	E3F2-DS10Z1-N
	M18, Retroflective Photoelectric Sensor, 24 ~ 240VAC, Plastic Housing	6.56' (2m)	Light - On	Z1090-ND	97.51	90.29	84.27	E3F2-R2Z1
	M18, Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Plastic Housing	9.84' (3m)	Light - On	Z1091-ND	200.95	186.07	173.67	E3F2-3Z1
2	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Horizontal	27.6" (70cm)	NPN/PNP	Z1096-ND	249.54	231.06	215.66	E3S-CD11
	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Horizontal	6.56' (2m)	NPN/PNP	Z1097-ND	268.73	248.83	232.24	E3S-CD12
	Retroflective Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Vertical	9.84' (3m)	NPN/PNP	Z1101-ND	189.52	175.49	163.79	E3S-CR61
	Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Horizontal	98.43' (30m)	NPN/PNP	Z1102-ND	304.18	281.66	262.88	E3S-CT11
	Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Vertical	98.43' (30m)	NPN/PNP	Z1103-ND	304.18	281.66	262.88	E3S-CT61
3	Compact Long Distance, Photoelectric Sensor, IR Through-Beam	49.21' (15m)	NPN	Z1106-ND	113.06	104.69	97.71	E3Z-T61
	Compact Long Distance, Photoelectric Sensor, IR Retroflective	13.12' (4m)	NPN	Z1107-ND	90.03	83.37	77.81	E3Z-R61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.94" (10cm)	NPN	Z1108-ND	80.62	74.66	69.68	E3Z-D61OMS
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.28' (1m)	NPN	Z1109-ND	85.96	79.60	74.29	E3Z-D62
	Photo Sensor Connectors (e-CON) — RoHS Compliant							
4A	Discrete 3 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 13.8mm			OR1020-ND ***NEW!***	4.75	4.28	3.80	XN2A-1370
	Discrete 4 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 15.8mm			Z2787-ND	5.73	5.16	4.58	XN2A-1430
	Discrete 4 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 15.8mm			OR1021-ND ***NEW!***	4.84	4.36	3.88	XN2A-1470
	Discrete 5 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 17.8mm			OR1022-ND ***NEW!***	5.90	5.31	4.72	XN2A-1570
	Discrete 6 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 19.8mm			OR1023-ND ***NEW!***	7.15	6.44	5.72	XN2A-1670
	Discrete 8 Position Cable Plug - Free Hanging - Spring Clamp Type; Dim. A: 23.8mm			OR1024-ND ***NEW!***	7.77	7.00	6.22	XN2A-1870
4B	Discrete 4 Position Cable Socket - Free Hanging - Spring Clamp Type			Z2788-ND	6.64	5.98	5.31	XN2B-1430
	Discrete 4 Position Cable Socket - Free Hanging - Spring Clamp Type			OR1025-ND ***NEW!***	5.61	5.05	4.49	XN2B-1470
—	PCB 4 Position Socket, Single Socket Type for PCB Mount			Z2789-ND	3.72	3.36	2.98	XN2D-1431
	PCB 3 Position Socket, Single Socket Type for PCB Mount			OR1026-ND ***NEW!***	3.09	2.78	2.47	XN2D-1371
	PCB 4 Position Socket, Single Socket Type for PCB Mount			OR1027-ND ***NEW!***	3.15	2.84	2.53	XN2D-1471
	PCB 5 Position Socket, Single Socket Type for PCB Mount			OR1028-ND ***NEW!***	3.59	3.24	2.88	XN2D-1571
	PCB 6 Position Socket, Single Socket Type for PCB Mount			OR1029-ND ***NEW!***	3.95	3.56	3.16	XN2D-1671
	PCB 8 Position Socket, Single Socket Type for PCB Mount			OR1030-ND ***NEW!***	4.66	4.20	3.74	XN2D-1871
	PCB 4 Position Socket, Quad Socket Type for PCB Mount			Z2790-ND	7.19	6.47	5.75	XN2D-4431
	PCB 4 Position Socket, Quad Socket Type for PCB Mount			OR1031-ND ***NEW!***	6.08	5.47	4.87	XN2D-4471
	XS5 Waterproof Connectors and Cables — RoHS Compliant							
5	Connector Kit Waterproof - 4 Conductor - Straight, Female			OR794-ND	19.88	17.90	15.91	XS5C-D4S1
	Connector Kit Waterproof - 4 Conductor - Angled, Female			OR795-ND	19.72	17.75	15.78	XS5C-D4S2
	Connector Kit Waterproof - 4 Conductor - Straight, Male			OR792-ND	20.22	18.20	16.18	XS5G-D4S1
	Connector Kit Waterproof - 4 Conductor - Angled, Male			OR793-ND	20.06	18.06	16.05	XS5G-D4S2
	Single Sided Cable Assembly - 4 Conductor - Male, 10m			Z2796-ND	86.30	77.67	69.04	XS5H-D421-J80-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 1m			Z2797-ND	41.02	36.92	32.82	XS5W-D421-C81-A

Optical Fiber Optic Amplifiers

Features: Omron's E3X-NH/E3X-NA series of high performance Fiber Optic Amplifiers contain true 16 Bit processor which allows a very fine tuning sensitivity feature. Three separate teach modes for hassle free setup for different applications. Ideal for detecting very small objects or fine wires.

The E3X series feature high performance, fast switching response times. Set-mode blinking output aids in alignment. Sensing distances vary with the type of fiber used.

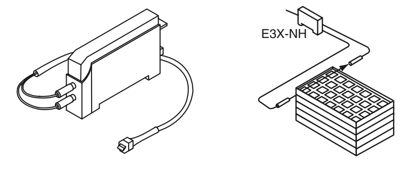

Description	Output Type	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
High Precision General Purpose Fiber Optic Amplifier with Timer 12-24VDC	NPN	with Delay Off	Z1112-ND	319.95	296.25	276.50	E3X-NH21
High Precision General Purpose Fiber Optic Amplifier with Timer 12-24VDC	PNP	with Delay Off	Z1113-ND	319.95	296.25	276.50	E3X-NH51
High Precision General Purpose Fiber Optic Amplifier with Timer 12-24VDC	PNP	with Delay Off	Z2941-ND ***NEW!***	190.54	176.43	164.66	E3X-NA51 2M

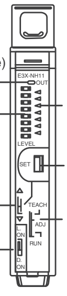

Operation Indicator (orange)
Lit when output is ON.

Incident Level Indicators
(green, 8 levels)
Lit depending on the incident light amount.

UP/DOWN Selector
Select UP for increasing the threshold value.
Select Down for decreasing the threshold value.

Operation Mode Selector
Switchable between light-ON and dark-ON modes.

Threshold Indicators
(red, 13 levels)
Indicates threshold level.

SET Button
For teaching or for fine threshold adjustment.

Mode Selector
Switchable among TEACH, ADJ, and RUN modes.

OMRON

Fiber Cables for E3X Amplifiers

Fig. 1

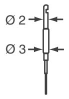

Fig. 2

Fig. 3

Fig. 4

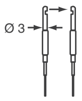

Pre-made fiber optic cables that enable very confined mounting spaces and very fast target detection. Use **Through-beam** for long distance detection where the transmit and receive cable are separated. Use **Concentric Beam** for depth detection or changing target distances where eliminating background objects is required. Periscope sensing heads (Side Beam) save space in right angle detecting. Most fiber cables offer IP67 protection and temperature ratings of -40°C ~ 70°C.

Fig.	Description	Distance Maximum	Terminal Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Diffuse Side Beam Fiber Optic Cable, 2mm diameter	.6" (1.5cm)	2m Cable	Z1118-ND	163.76	151.64	141.53	E32-D24
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, 2mm diameter	.79" (2cm)	2m Cable	Z1119-ND	84.67	78.40	73.18	E32-D32
2	Diffuse Top Beam Fiber Optic Cable, Low Cost, M6 THD	.79" (2cm)	2m Cable	Z1120-ND	58.30	53.98	50.38	E32-DC200
	Diffuse Top Beam Fiber Optic Cable, Mini, M3 THD	.71" (1.8cm)	2m Cable	Z1121-ND	70.79	65.55	61.18	E32-DC200E
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, M6 THD	3" (7.5cm)	2m Cable	Z1122-ND	64.68	59.90	55.90	E32-CC200
	Cable Fiber Optic, Top Beam, High Temperature, M6 THD	1.8" (4.5cm)	2m Cable	Z1187-ND	339.23	314.11	293.17	E32-D61
3	Diffuse Top Beam Fiber Optic Cable, Through Beam, M3 THD	4.72" (12cm)	2m Cable	Z1123-ND	59.98	55.54	51.84	E32-TC200A
	Cable Fiber Optic, Through Beam, Low Cost, M4 THD	7.88" (20cm)	2m Cable	Z1188-ND	56.63	52.44	48.95	E32-TC200
4	Through Beam Fiber Optic Cable, Side Beam, 3mm diameter	4.72" (12cm)	2m Cable	Z1124-ND	97.17	89.98	83.98	E32-T14L

ATMEL

QTouch™

QProx™/QTouch™ Charge-Transfer ("QT") General Description: These are self-contained digital capacitance ICs capable of detecting proximity, touch, and fluid level. With appropriate electrodes they can sense through sealed surfaces made of glass, plastic, stone, ceramic, and wood, up to thicknesses of several inches. This capability coupled with an ability to continuously calibrate leads to new product concepts. They are designed specifically for control panels in home appliances, PC peripherals, machinery, security systems, lighting controls, or anywhere a mechanical switch or button may be found. Versions also available for fluid sensing.

Description	Supply Voltage (V) Min.	Max.	Supply Current (Typical)	Operating Temp. (°C)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Atmel Part No.
QT1010 QTouch 1-Key Sensor IC	1.8	5.5	219µA†	-40 ~ 85	SOT23-6	AT42QT1010-TSHRCT-ND ***NEW!***	.87	.55	AT42QT1010-TSHRTR-ND ***NEW!***	4,500	487.20/M	AT42QT1010-TSHR
QT1011 QTouch 1-Key Sensor IC	1.8	5.5	219µA†	-40 ~ 85	SOT23-6	AT42QT1011-TSHRCT-ND ***NEW!***	.87	.55	AT42QT1011-TSHRTR-ND ***NEW!***	4,500	487.20/M	AT42QT1011-TSHR
QT1012 Qtouch 1-Key Sensor IC	1.8	5.5	31.5µA‡	-40 ~ 85	SOT23-6	AT42QT1012-TSHRCT-ND ***NEW!***	.87	.55	AT42QT1012-TSHRTR-ND ***NEW!***	4,500	487.20/M	AT42QT1012-TSHR
QT1040 QTouch 4-Key Sensor IC	1.8	5.5	10mA	-40 ~ 85	20-VQFN	AT42QT1040-MMHCT-ND ***NEW!***	1.92	1.21	AT42QT1040-MMHTR-ND ***NEW!***	6,000	1071.60/M	AT42QT1040-MMH
QT1060 QTouch 6-Key Sensor IC	1.8	5.5	10mA	-40 ~ 85	28-MLF	AT42QT1060-MMUCT-ND	3.20	2.02	AT42QT1060-MMUTR-ND	6,000	1788.00/M	AT42QT1060-MMU
QT110 QTouch 8-Pin Sensor IC	2.5	5.5	9.5 ~ 26µA	-40 ~ 85	8-SOIC	427-1137-1-ND	3.23	2.03	—	—	—	QT110A-ISG
QT118 QProx 8-Pin Sensor IC	2.5	5.0	8 ~ 30µA	-40 ~ 85	8-SOIC	427-1139-1-ND	3.23	2.03	—	—	—	QT118HA-ISG
QT161 QTouch 6-Key Sensor IC	3.0	5.5	2.5mA	-40 ~ 105	28-SSOP	427-1112-1-ND	7.11	6.84	—	—	—	QT161-ASG
QT2160A QSlide™ 16-Key QMatrix™ Sensor IC	0.5	6.0	476 ~ 1127µA	-40 ~ 85	28-MLF	427-1140-1-ND	3.20	2.02	427-1140-2-ND	6,000	1788.00/M	AT42QT2160-MMU
QT220 QTouch 2-Key Sensor IC	3.9	5.5	1.5mA	-40 ~ 85	20-SSOP	427-1114-1-ND	5.09	4.52	—	—	—	QT220-ISSG
QT240 QTouch 4-Key Sensor IC	3.9	5.0	1.5mA	-40 ~ 85	20-SSOP	427-1102-1-ND	5.10	4.76	—	—	—	QT240-ISSG
QT320 QTouch 2-Key Sensor IC	1.8	5.0	600µA	-40 ~ 85	8-SOIC	427-1121-1-ND	5.58	2.52	—	—	—	QT320-ISG
QT401 QSlide Touch Slider IC	2.5	5.5	110 ~ 180µA	-40 ~ 85	14-TSSOP	427-1104-1-ND	4.00	3.85	427-1104-2-ND	2,500	3696.00/M	QT401-ISSG
QT510 QWheel™ Touch Slider IC	2.5	5.5	110 ~ 180µA	-40 ~ 85	14-SOIC	427-1105-1-ND	5.32	5.12	—	—	—	QT510-ISG
QT510 QWheel Touch Slider IC	2.5	5.5	110 ~ 180µA	-40 ~ 85	14-TSSOP	427-1106-1-ND	5.32	5.12	427-1106-2-ND	2,500	4908.00/M	QT510-ISSG
QT1080 QTouch 8-Key Sensor IC	2.8	5.0	1.3 ~ 4.5mA	-40 ~ 85	32-QFN	427-1090-1-ND	4.00	3.82	—	—	—	QT1080-ISG
QT1100 QTouch 10-Key Sensor IC	2.8	5.0	1.5 ~ 4.5mA	-40 ~ 85	32-QFN	427-1094-1-ND	2.78	2.68	—	—	—	QT1101-ISG
QT60160 QMatrix 16-Key Touch IC	1.8	5.25	1.02mA	-40 ~ 85	32-MLF	427-1125-1-ND	3.48	2.19	427-1125-2-ND	3,000	2184.01/M	QT60160-ISG
QT60168 QProx 16-Key QMatrix IC	3.0	5.25	10mA	-40 ~ 105	32-TQFP	427-1107-ND§	8.21	5.20	—	—	—	QT60168-ASG
QT60248 QProx 24-Key QMatrix IC	3.0	5.25	10mA	-40 ~ 105	32-TQFP	427-1108-ND§	10.34	6.56	—	—	—	QT60248-ASG
QT60326 QProx 32-Key QMatrix IC	4.75	5.25	15mA	-40 ~ 105	44-TQFP	427-1109-ND§	12.92	8.22	—	—	—	QT60326-ASG
QT60486 QProx 48-Key QMatrix IC	4.75	5.25	15mA	-40 ~ 105	44-TQFP	427-1110-ND§	15.50	9.78	—	—	—	QT60486-ASG

† Slow Mode ‡ Fast Mode § Tray

Evaluation Boards and Kits

Description	Digi-Key Part No.	Price Each	Atmel Part No.
E3A Evaluation Board for QT300	427-1069-ND	80.99	E3A
E100S Evaluation Board for QT100	427-1128-ND	12.17	E100S
E240B Evaluation Board for QT240	427-1113-ND	19.76	E240B
E1103 Evaluation Board for QT1103-ISG	427-1134-ND	40.56	E1103
E6248 Evaluation Board for QT60248 24-Key QMatrix™ IC	427-1087-ND	192.40	E6248
E6486 Evaluation Board for QT60486 48-Key QMatrix IC	427-1088-ND	197.60	E6486
EVK1060A Evaluation Board for QT1060	EVK1060A-ND	85.80	EVK1060A

Description	Digi-Key Part No.	Price Each	Atmel Part No.
EVK2160A Evaluation Board for QT2160	427-1141-ND	85.80	EVK2160A
Evaluation Board for ATtiny88 Library	ATAVRTS2080B-ND ***NEW!***	202.80	ATAVRTS2080B
Evaluation Board for AT42QT1010A	ATEVK1010A-ND ***NEW!***	13.00	ATEVK1010A
Evaluation Board for AT42QT1012A	ATEVK1012A-ND ***NEW!***	19.55	ATEVK1012A
Evaluation Touch Kit for QT600	ATQT600-ND ***NEW!***	206.96	ATQT600
QTouch® Kit with ATmega88	ATAVRTS2080A-ND ***NEW!***	202.80	ATAVRTS2080A

Honeywell
Sensing and Control

Ultrasonic Sensors

The 943 Series industrial sensors add to our product range of sensors. They have improved scanning ranges, remote teach in of the switching or analog outputs, as well as new advanced features, such as window and hysteresis modes.

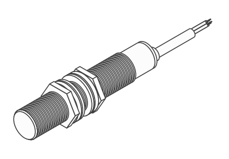

Description	Switching Frequency	Output	Digi-Key Part No.	Price Each 1	10	25	Honeywell Part No.
943 Series, Software Programmable, 200 ~ 2,000mm scan distance, M18 Plastic Housing	1.2Hz	NPN, 2 NO/NC	480-3007-ND	277.70	239.27	227.88	943-F4Y-2D-002-180E
	250ms	0 ~ 10V	480-3008-ND	277.70	239.27	227.88	943-F4Y-2D-1C0-180E

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! spectrasymbol

Sensors

Flex Sensor: Features: • Angle Displacement Measurement • Possible Uses: Robotics, Gaming (Virtual Motion), Musical Instruments
HotPots: Features: • High Life Cycle • High Temperature Capability • IP65 Dust Proof, Water Proof (Intense Spray)
MagnetoPot: Features: • IP64 Debris Proof, Splash Proof • Ideal for Hydraulic and Pneumatic Position Sensing
SoftPot: Features: • IP65 Dust Proof, Water Proof (Intense Spray) • Polyester Substrate
ThinPot: Features: • Half the width of the SoftPot • IP64 Dust Proof, Splash Proof • Polyester Substrate

Fig.	Resistance (Ω)	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	25	Spectra Symbol Part No.
				Flex Sensor				
1	10K	—	—	905-1000-ND	12.95	11.66	11.34	FS-L-0095-103-ST
				HotPots				
2	10K	28.36	12.50	905-1006-ND	13.14	11.83	11.50	HP-L-0012-103-1%-RH
	10K	28.36	12.50	905-1005-ND	10.95	9.86	9.59	HP-L-0012-103-3%-RH
	10K	40.86	25.00	905-1014-ND	16.74	15.07	14.65	HP-L-0025-103-1%-RH
	10K	40.86	25.00	905-1013-ND	13.95	12.56	12.21	HP-L-0025-103-3%-RH
	10K	65.86	50.00	905-1024-ND	20.34	18.31	17.80	HP-L-0050-103-1%-RH
	10K	65.86	50.00	905-1023-ND	16.95	15.26	14.84	HP-L-0050-103-3%-RH
	10K	115.86	100.00	905-1004-ND	22.74	20.47	19.90	HP-L-0100-103-1%-RH
	10K	115.86	100.00	905-1003-ND	18.95	17.06	16.59	HP-L-0100-103-3%-RH
	10K	165.86	150.00	905-1008-ND	23.94	21.55	20.95	HP-L-0150-103-1%-RH
	10K	165.86	150.00	905-1007-ND	19.95	17.96	17.46	HP-L-0150-103-3%-RH
	10K	185.86	170.00	905-1010-ND	25.14	22.63	22.00	HP-L-0170-103-1%-RH
	10K	185.86	170.00	905-1009-ND	20.95	18.86	18.34	HP-L-0170-103-3%-RH
	10K	215.86	200.00	905-1012-ND	26.34	23.71	23.05	HP-L-0200-103-1%-RH
	10K	215.86	200.00	905-1011-ND	21.95	19.76	19.21	HP-L-0200-103-3%-RH
	10K	315.86	300.00	905-1016-ND	31.14	28.03	27.25	HP-L-0300-103-1%-RH
	10K	315.86	300.00	905-1015-ND	25.95	23.36	22.71	HP-L-0300-103-3%-RH
	20K	415.86	400.00	905-1018-ND	33.54	30.19	29.35	HP-L-0400-203-1%-RH
	20K	415.86	400.00	905-1017-ND	27.95	25.16	24.46	HP-L-0400-203-3%-RH
	20K	515.86	500.00	905-1022-ND	37.14	33.43	32.50	HP-L-0500-203-1%-RH
	20K	515.86	500.00	905-1021-ND	30.95	27.86	27.09	HP-L-0500-203-3%-RH
	20K	765.86	750.00	905-1026-ND	53.94	48.55	47.20	HP-L-0750-203-1%-RH
	20K	765.86	750.00	905-1025-ND	44.95	40.46	39.34	HP-L-0750-203-3%-RH
	20K	1015.86	1000.00	905-1002-ND	71.94	64.75	62.95	HP-L-1000-203-1%-RH
	20K	1015.86	1000.00	905-1001-ND	59.95	53.96	52.46	HP-L-1000-203-3%-RH
3	10K	—	—	905-1020-ND	22.74	20.47	19.90	HP-R-0046-353-103-3%-RH
	10K	—	—	905-1019-ND	18.95	17.06	16.59	HP-R-0046-353-103-5%-RH
				MagnetoPots				
4	10K	28.36	12.50	905-1029-ND	11.95	10.76	10.46	MP1-L-0012-103-5%-RH
	10K	40.86	25.00	905-1033-ND	14.95	13.46	13.09	MP1-L-0025-103-5%-RH
	10K	65.86	50.00	905-1038-ND	17.95	16.16	15.71	MP1-L-0050-103-5%-RH
	10K	115.86	100.00	905-1028-ND	19.95	17.96	17.46	MP1-L-0100-103-5%-RH
	10K	165.86	150.00	905-1030-ND	20.95	18.86	18.34	MP1-L-0150-103-5%-RH
	10K	185.86	170.00	905-1031-ND	21.95	19.76	19.21	MP1-L-0172-103-5%-RH
	10K	215.86	200.00	905-1032-ND	22.95	20.66	20.09	MP1-L-0200-103-5%-RH
	10K	315.86	300.00	905-1034-ND	26.95	24.26	23.59	MP1-L-0300-103-5%-RH
	20K	415.86	400.00	905-1035-ND	29.95	26.96	26.21	MP1-L-0400-203-5%-RH
	20K	515.86	500.00	905-1037-ND	32.95	29.66	28.84	MP1-L-0500-203-5%-RH
	20K	765.86	750.00	905-1039-ND	47.95	43.16	41.96	MP1-L-0750-203-5%-RH
	20K	1015.86	1000.00	905-1027-ND	62.95	56.65	55.09	MP1-L-1000-203-5%-RH
5	10K	—	—	905-1036-ND	19.95	17.96	17.46	MP1-R-0046-353-103-5%-RH
				SoftPots				
2	10K	28.36	12.50	905-1045-ND	9.56	8.60	8.37	SP-L-0012-103-1%-RH
	10K	28.36	12.50	905-1044-ND	7.95	7.16	6.96	SP-L-0012-103-3%-RH
	10K	40.86	25.00	905-1053-ND	11.94	10.75	10.45	SP-L-0025-103-1%-RH
	10K	40.86	25.00	905-1052-ND	9.95	8.96	8.71	SP-L-0025-103-3%-RH
	10K	65.86	50.00	905-1063-ND	15.54	13.99	13.60	SP-L-0050-103-1%-RH
	10K	65.86	50.00	905-1062-ND	12.95	11.66	11.34	SP-L-0050-103-3%-RH
	10K	115.86	100.00	905-1043-ND	17.94	16.15	15.70	SP-L-0100-103-1%-RH
	10K	115.86	100.00	905-1042-ND	14.95	13.46	13.09	SP-L-0100-103-3%-RH
	10K	165.86	150.00	905-1047-ND	20.34	18.31	17.80	SP-L-0150-103-1%-RH
	10K	165.86	150.00	905-1046-ND	16.95	15.26	14.84	SP-L-0150-103-3%-RH
	10K	185.86	170.00	905-1049-ND	20.94	18.85	18.33	SP-L-0170-103-1%-RH
	10K	185.86	170.00	905-1048-ND	17.45	15.71	15.27	SP-L-0170-103-3%-RH
	10K	215.86	200.00	905-1051-ND	21.54	19.39	18.85	SP-L-0200-103-1%-RH
	10K	215.86	200.00	905-1050-ND	17.95	16.16	15.71	SP-L-0200-103-3%-RH
	10K	315.86	300.00	905-1055-ND	22.74	20.47	19.90	SP-L-0300-103-1%-RH
	10K	315.86	300.00	905-1054-ND	18.95	17.06	16.59	SP-L-0300-103-3%-RH
	20K	415.86	400.00	905-1057-ND	25.14	22.63	22.00	SP-L-0400-203-1%-RH
	20K	415.86	400.00	905-1056-ND	20.95	18.86	18.34	SP-L-0400-203-3%-RH
	20K	515.86	500.00	905-1061-ND	31.14	28.03	27.25	SP-L-0500-203-1%-RH
	20K	515.86	500.00	905-1060-ND	25.95	23.36	22.71	SP-L-0500-203-3%-RH
	20K	765.86	750.00	905-1065-ND	41.94	37.75	36.70	SP-L-0750-203-1%-RH
	20K	765.86	750.00	905-1064-ND	34.95	31.46	30.59	SP-L-0750-203-3%-RH
	20K	1015.86	1000.00	905-1041-ND	53.94	48.55	47.20	SP-L-1000-203-1%-RH
	20K	1015.86	1000.00	905-1040-ND	44.95	40.46	39.34	SP-L-1000-203-3%-RH
3	10K	—	—	905-1059-ND	17.94	16.15	15.70	SP-R-0046-353-103-3%-RH
	10K	—	—	905-1058-ND	14.95	13.46	13.09	SP-R-0046-353-103-5%-RH
				ThinPots				
6	10K	18.85	12.50	905-1071-ND	11.34	10.21	9.93	TSP-L-0012-103-1%-RH
	10K	18.85	12.50	905-1070-ND	9.45	8.51	8.27	TSP-L-0012-103-3%-RH
	10K	31.35	25.00	905-1079-ND	13.74	12.37	12.03	TSP-L-0025-103-1%-RH
	10K	31.35	25.00	905-1078-ND	11.45	10.31	10.02	TSP-L-0025-103-3%-RH
	10K	56.35	50.00	905-1089-ND	17.34	15.61	15.18	TSP-L-0050-103-1%-RH
	10K	56.35	50.00	905-1088-ND	14.45	13.01	12.65	TSP-L-0050-103-3%-RH
	10K	106.35	100.00	905-1069-ND	19.74	17.77	17.28	TSP-L-0100-103-1%-RH
	10K	106.35	100.00	905-1068-ND	16.45	14.81	14.40	TSP-L-0100-103-3%-RH
	10K	156.35	150.00	905-1073-ND	22.14	19.93	19.38	TSP-L-0150-103-1%-RH
	10K	156.35	150.00	905-1072-ND	18.45	16.61	16.15	TSP-L-0150-103-3%-RH
	10K	176.35	170.00	905-1075-ND	22.74	20.47	19.90	TSP-L-0170-103-1%-RH
	10K	176.35	170.00	905-1074-ND	18.95	17.06	16.59	TSP-L-0170-103-3%-RH
	10K	206.35	200.00	905-1077-ND	23.34	21.01	20.43	TSP-L-0200-103-1%-RH
	10K	206.35	200.00	905-1076-ND	19.45	17.51	17.02	TSP-L-0200-103-3%-RH
	10K	306.35	300.00	905-1081-ND	25.14	22.63	22.00	TSP-L-0300-103-1%-RH
	10K	306.35	300.00	905-1080-ND	20.95	18.86	18.34	TSP-L-0300-103-3%-RH
	20K	406.35	400.00	905-1085-ND	27.54	24.79	24.10	TSP-L-0400-203-1%-RH
	20K	406.35	400.00	905-1084-ND	22.95	20.66	20.09	TSP-L-0400-203-3%-RH
	20K	506.35	500.00	905-1087-ND	34.14	30.73	29.88	TSP-L-0500-203-1%-RH
	20K	506.35	500.00	905-1086-ND	28.45	25.61	24.90	TSP-L-0500-203-3%-RH
	20K	756.35	750.00	905-1091-ND	45.54	40.99	39.85	TSP-L-0750-203-1%-RH
	20K	756.35	750.00	905-1090-ND	37.95	34.16	33.21	TSP-L-0750-203-3%-RH
	20K	1006.35	1000.00	905-1067-ND	57.54	51.79	50.35	TSP-L-1000-203-1%-RH
	20K	1006.35	1000.00	905-1066-ND	47.95	43.16	41.96	TSP-L-1000-203-3%-RH
7	10K	—	—	905-1083-ND	19.74	17.77	17.28	TSP-R-0036-351-103-3%-RH
	10K	—	—	905-1082-ND	16.45	14.81	14.40	TSP-R-0036-351-103-5%-RH
				Accessories				
8	Wiper Accessory			905-1092-ND	3.68	3.32	3.22	WP-M1-01-03-014-DI

Fig. 1

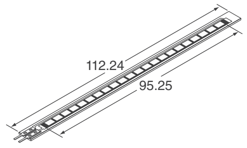

Fig. 2

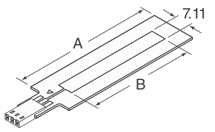

Fig. 3

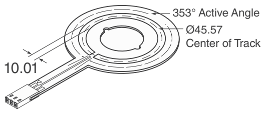

Fig. 4

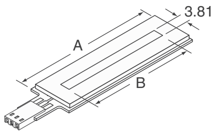

Fig. 5

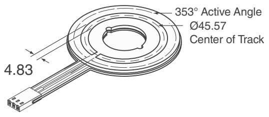

Fig. 6

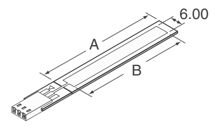

Fig. 7

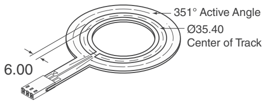

Fig. 8

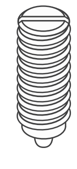

MEMS Accelerometers

ST offers a portfolio of MEMS-based sensors able to sense acceleration in two or three axis. The mechanical part of linear accelerometer sensor is based on a silicon inter-digitated structure done by fixed and movable fingers. To sense the acceleration in each axis, these structures are packaged in orthogonally groups and the acceleration in each direction is sensed by measuring the change of capacitance between fixed and movable elements correlated to that axis. The changing of capacitance per axis is then translated into an analog or digital output signal in the interface chip. The whole process of design and production of sensors is managed by STMicroelectronics. This guarantees to the customer high volume production, long term security, high precision and reliability since all the devices are tested by Standards and Proprietary Test Systems.

Axis	Acceleration Range (g)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
				1	10	100		Qty.	Pricing	
Digital										
2	±2/±8	14-LGA	497-6071-1-ND	7.11	6.40	5.22	—	—	—	LIS202DLTR
3	±2/±4/±8/±16	16-LGA	497-10610-ND† ***NEW!***	4.54	3.65	3.33	—	—	—	LIS3DH
3	±2/±4/±8/±16	16-LGA	497-10613-1-ND ***NEW!***	4.86	3.97	3.57	497-10613-2-ND ***NEW!***	4,000	2155.00/M	LIS3DHTR
3	±2/±4/±8	14-LGA	497-10052-ND† ***NEW!***	7.00	6.25	5.13	—	—	—	LIS302DLH
3	±2/±6	28-QFPN	497-10189-1-ND ***NEW!***	14.85	13.57	11.63	497-10189-2-ND ***NEW!***	2,300	8234.00/M	AIS326DQTR
3	±2/±4/±8	16-LGA	497-10397-1-ND ***NEW!***	9.18	8.32	6.93	497-10397-2-ND ***NEW!***	4,000	4505.00/M	LIS331DLHTR
3	±2/±6	16-LGA	497-5531-ND†	11.44	10.40	8.84	—	—	—	LIS3LV02DL
3	±2/±8	14-LGA	497-5911-1-ND	10.91	9.88	8.24	497-5911-2-ND	5,000	5145.00/M	LIS302DLTR
3	±2/±6	28-QFPN	497-6346-1-ND	12.80	11.69	10.02	497-6346-2-ND	2,300	7095.00/M	LIS3LV02DQ-TR
3	±2/±6	14-LGA	497-6969-1-ND	8.01	7.26	6.05	497-6969-2-ND	5,000	3780.00/M	FC30TR
3	±2/±8	16-LGA	497-8327-1-ND	11.85	10.74	8.95	497-8327-2-ND	4,000	5815.00/M	LIS331DLTR
3	±2/±6	16-LGA	497-8415-1-ND	11.96	10.92	9.36	497-8415-2-ND	4,000	6627.00/M	LIS3LV02DLTR
3	±2/±8	16-LGA	497-8548-ND†	5.12	4.57	3.75	—	—	—	LIS33DE
3	±2/±8	14-LGA	497-8549-ND†	5.12	4.57	3.75	—	—	—	LIS35DE
3	±2/±4/±8	16-LGA	497-8830-ND† ***NEW!***	6.83	6.15	5.06	—	—	—	LIS331DLF
3	±2/±4/±8	16-LGA	497-8831-ND† ***NEW!***	8.66	7.80	6.42	—	—	—	LIS331DLH
3	±2/±4/±8	16-LGA	497-8832-ND† ***NEW!***	7.88	7.09	5.83	—	—	—	LIS331DLM
3	±6/±12/±24	16-LGA	497-10134-ND† ***NEW!***	6.93	6.24	5.13	—	—	—	LIS331HH
3	±2/±6	Module	497-9085-ND‡ ***NEW!***	88.00	—	—	—	—	—	SPMB250-A1
Analog										
1	±2/±6	28-LGA	497-8230-ND†	13.18	11.98	10.19	—	—	—	LISY300AL
1	±2/±8	16-LGA	497-8938-ND† ***NEW!***	8.82	7.94	6.53	—	—	—	LY530ALH
1	±2/±8	16-LGA	497-8959-1-ND ***NEW!***	9.35	8.47	7.06	497-8959-2-ND ***NEW!***	3,000	4586.00/M	LY5150ALHTR
1	±2/±8	16-LGA	497-8960-1-ND ***NEW!***	9.35	8.47	7.06	497-5960-2-ND ***NEW!***	3,000	4586.00/M	LY550ALHTR
1	±2/±8	16-LGA	497-8961-1-ND ***NEW!***	9.35	8.47	7.06	497-8961-2-ND ***NEW!***	3,000	4586.00/M	LY530ALHTR
1	±2/±8	16-LGA	497-8962-1-ND ***NEW!***	9.35	8.47	7.06	497-8962-2-ND ***NEW!***	3,000	4586.00/M	LY510ALHTR
1	±2/±8	16-LGA	497-8963-1-ND ***NEW!***	9.35	8.47	7.06	497-8963-2-ND ***NEW!***	3,000	4586.00/M	LY503ALHTR
2	±2	16-LGA	497-6343-ND†	4.59	4.10	3.36	—	—	—	LIS244AL
2	±2/±6	16-LGA	497-6344-1-ND	8.51	7.72	6.43	497-6344-2-ND	3,000	4177.00/M	LIS244ALHTR
2	±2/±8	16-LGA	497-8964-1-ND ***NEW!***	9.35	8.47	7.06	497-8964-2-ND ***NEW!***	3,000	4586.00/M	LPR5150ALTR
2	±2/±8	16-LGA	497-8965-1-ND ***NEW!***	9.35	8.47	7.06	497-8965-2-ND ***NEW!***	3,000	4586.00/M	LPR550ALTR
2	±2/±8	16-LGA	497-8966-1-ND ***NEW!***	9.35	8.47	7.06	497-8966-2-ND ***NEW!***	3,000	4586.00/M	LPR530ALTR
2	±2/±8	16-LGA	497-8967-1-ND ***NEW!***	9.35	8.47	7.06	497-8967-2-ND ***NEW!***	3,000	4586.00/M	LPR510ALTR
2	±2/±8	16-LGA	497-8968-1-ND ***NEW!***	9.35	8.47	7.06	497-8968-2-ND ***NEW!***	3,000	4586.00/M	LPR503ALTR
2	±2/±8	16-LGA	497-8969-1-ND ***NEW!***	9.35	8.47	7.06	497-8969-2-ND ***NEW!***	3,000	4586.00/M	LPY5150ALTR
2	±2/±8	16-LGA	497-8970-1-ND ***NEW!***	9.35	8.47	7.06	497-8970-2-ND ***NEW!***	3,000	4586.00/M	LPY550ALTR
2	±2/±8	16-LGA	497-8971-1-ND ***NEW!***	9.35	8.47	7.06	497-8971-2-ND ***NEW!***	3,000	4586.00/M	LPY530ALTR
2	±2/±8	16-LGA	497-8972-1-ND ***NEW!***	9.35	8.47	7.06	497-8972-2-ND ***NEW!***	3,000	4586.00/M	LPY510ALTR
2	±2/±8	16-LGA	497-8973-1-ND ***NEW!***	9.35	8.47	7.06	497-8973-2-ND ***NEW!***	3,000	4586.00/M	LPY503ALTR
3	±2	14-LGA	497-5910-1-ND	6.08	5.51	4.60	497-5910-2-ND	5,000	3304.00/M	LIS302ALBTR
3	±2	14-LGA	497-6340-ND†	6.83	6.15	5.06	—	—	—	LIS302SG
3	±3.5	16-LGA	497-6341-ND†	5.12	4.57	3.75	—	—	—	LIS344AL
3	±2/±6	16-LGA	497-6345-1-ND	9.35	8.47	7.06	497-6345-2-ND	3,000	4586.00/M	LIS344ALHTR
3	±2	16-LGA	497-8333-1-ND	11.85	10.74	8.95	497-8333-2-ND	4,000	5815.00/M	LIS331ALTR
3	±2	14-LGA	497-8979-1-ND ***NEW!***	5.67	5.11	4.16	497-8979-2-ND ***NEW!***	5,000	2410.00/M	LIS352AXTR
3	±2/±4/±8	28-LGA	497-10474-ND† ***NEW!***	10.50	9.45	7.77	—	—	—	LSM303DLH

† Tray ‡ Bulk

NEW! MEMS Gyroscopes

Sensitivity Degrees per Second	Range Degrees per Second	Sensing Axes	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
					1	10	100	
0.67mV	±1500	Pitch, Roll	28-LGA	497-10137-ND	10.03	9.03	7.43	LPR4150AL
0.67mV	±1500	Pitch, Yaw	28-LGA	497-10142-ND	10.03	9.03	7.43	LPY4150AL
0.67mV	±2000	Yaw	10-LGA	497-10146-ND	10.03	9.03	7.43	LY3200ALH
1.1mV	±1000	Yaw	10-LGA	497-10145-ND	10.03	9.03	7.43	LY3100ALH
2mV	±500	Pitch, Roll	28-LGA	497-10139-ND	10.03	9.03	7.43	LPR450AL
2mV	±500	Pitch, Yaw	28-LGA	497-10144-ND	10.03	9.03	7.43	LPY450AL
3.33mV	±300	Pitch, Roll	28-LGA	497-10138-ND	10.03	9.03	7.43	LPR430AL
3.33mV	±300	Pitch, Yaw	28-LGA	497-10143-ND	10.03	9.03	7.43	LPY430AL
3.752mV	±300	Yaw	10-LGA	497-10147-ND	10.03	9.03	7.43	LY330ALH
10mV	±100	Pitch, Roll	28-LGA	497-10136-ND	10.03	9.03	7.43	LPR410AL
10mV	±100	Pitch, Yaw	28-LGA	497-10141-ND	10.03	9.03	7.43	LPY410AL
33.3mV	±30	Pitch, Roll	28-LGA	497-10135-ND	10.03	9.03	7.43	LPR403AL
33.3mV	±30	Pitch, Yaw	28-LGA	497-10140-ND	10.03	9.03	7.43	LPY403AL

Tools and Evaluation Boards

The Micro Electro Mechanical System is a new technology that exploits the mechanical properties of silicon to integrate mechanical structures sensitive to vibration, displacement, acceleration and rotation. This new technology opened the door to a new generation of compact, cost effective and sensitive sensors. While conventional microelectronics development focuses on incremental improvements of a well-established technology, MEMS challenge the way designers work, compelling them to think three dimensionally and to acquire a unique blend of multi-disciplinary skills combining electrical, semiconductor and mechanical design.

Features:

• Strategic Cost • Low Power Consumption • Low size and weight • High volumes • High reproducibility • High thermal stability by design • High integration with standard IC devices to build Multi Chip Modules (MCM) or smart sensors.

LIS302DL Evaluation Boards

MEMS 3-Axis ±2g/±8g. Digital Output Low Power Linear Accelerometer Evaluation Boards based on LIS302DL (EK302DL).

497-6229-ND (STEVAL-MKI006V1)........ **$66.15**
497-6342-ND (STEVAL-MKI013V1)........ **$40.95**

LIS3LV02DQ Evaluation Board

MEMS 3-Axis ±2g/±6g. Digital Output Low Voltage Linear Accelerometer Evaluation Board based on LIS3LV02DQ.

497-6249-ND (STEVAL-MKI004V1)........ **$66.15**

LIS3LV02DL Evaluation Board

MEMS 3-Axis ±2g/±6g. Digital Output Low Voltage Linear Accelerometer. Evaluation Board based on LIS3LV02DL (EK3LV02DL).

497-6226-ND (STEVAL-MKI005V1)........ **$66.15**

LIS331AL Evaluation Board

The STEVEL-MKI021V1 MEMS 3-Axis 2g Analog Output Evaluation Board based on NANO Accelerometer LIS331AL.

497-8205-ND (STEVAL-MKI021V1)........ **$58.28**

NEW! STEVAL-MKI033V1 Evaluation Board

The STEVAL-MKI033V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for demonstration of the LPR503AL product family. The STEVAL-MKI033V1 demo board has been designed for use in two different working modes; Analog working mode: the microcontroller on the board is disabled and the analog outputs of the device are available to the user on a dedicated connector. This is the default working mode when the power supply is applied either through the USB connector or through the supply connector. Digital working mode: the microcontroller on the board is enabled and it allows the user to digitally acquire the output signals of the device, to see them on the PC through the dedicated GUI, and to control the control pins of the device.

497-10367-ND (STEVAL-MKI033V1)........ **$106.13**

NEW! STEVAL-MKI034V1 Evaluation Board

The STEVAL-MKI034V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for demonstration of the LPR510AL product family. The STEVAL-MKI034V1 demo board has been designed for use in two different working modes; Analog working mode: the microcontroller on the board is disabled and the analog outputs of the device are available to the user on a dedicated connector. This is the default working mode when the power supply is applied either through the USB connector or through the supply connector. Digital working mode: the microcontroller on the board is enabled and it allows the user to digitally acquire the output signals of the device, to see them on the PC through the dedicated GUI, and to control the control pins of the device.

497-10366-ND (STEVAL-MKI034V1)........ **$101.08**

NEW! STEVAL-MKI035V1 Evaluation Board

MEMS analog output demonstration board for the LPR530AL, ±300/s and ±1200/s, dual-axis pitch and roll gyroscope.

497-9088-ND (STEVAL-MKI035V1)........ **$106.13**

NEW! STEVAL-MKI037V1 Evaluation Board

The STEVAL-MKI037V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for demonstration of the LPY530AL product family. The STEVAL-MKI037V1 demo board has been designed for use in two different working modes; Analog working mode: the microcontroller on the board is disabled and the analog outputs of the device are available to the user on a dedicated connector. This is the default working mode when the power supply is applied either through the USB connector or through the supply connector. Digital working mode: the microcontroller on the board is enabled and it allows the user to digitally acquire the output signals of the device, to see them on the PC through the dedicated GUI, and to control the control pins of the device.

497-10365-ND (STEVAL-MKI037V1)........ **$106.13**

NEW! STEVAL-MKI038V1 Evaluation Board

Acceleration Modules and Development Tools STM8S207R6 BRD LIS331DLH MEMS.

497-10046-ND (STEVAL-MKI038V1)........ **$106.13**

NEW! STEVAL-MKI042V1 Evaluation Board

The STEVAL-MKI042V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LPR503AL pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10364-ND (STEVAL-MKI042V1)........ **$39.38**

NEW! STEVAL-MKI043V1 Evaluation Board

The STEVAL-MKI043V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LPR510AL pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10363-ND (STEVAL-MKI043V1)........ **$39.38**

NEW! STEVAL-MKI044V1 Evaluation Board

Acceleration Modules and Development Tools LPR530AL Dual-Axis DIL24 Adapter Board.

497-9089-ND (STEVAL-MKI044V1)........ **$33.08**

NEW! STEVAL-MKI045V1 Evaluation Board

The STEVAL-MKI045V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LPY503AL pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10362-ND (STEVAL-MKI045V1)........ **$39.38**

NEW! STEVAL-MKI047V1 Evaluation Board

Acceleration Modules and Development Tools LPR550AL Dual-Axis GYRO Sensor Board.

497-10047-ND (STEVAL-MKI047V1)........ **$33.08**

NEW! STEVAL-MKI050V1 Evaluation Board

Acceleration Modules and Development Tools LPR530AL Adapter BRD Plug into DIL 20.

497-9090-ND (STEVAL-MKI050V1)........ **$33.08**

NEW! STEVAL-MKI062V1 Evaluation Board

iNEMO™: inertial module demonstration board based on MEMS and STM32. The STEVAL-MKI062V1 (iNEMO) is a unique platform designed to demonstrate the performance of ST's most advanced inertial, temperature and pressure sensors. It provides a complete set of inertial measurements from an accelerometer, magnetometer and gyroscopes, as well as data from pressure and temperature sensors to measure environmental conditions. iNEMO, a 9 DOF (degrees of freedom) inertial system to sense motion using a combination of sensors, represents a complete hardware platform for a variety of application including virtual reality, augmented reality, platform stabilization, human machine interfaces and robotics. To aid in user development and analysis, the STEVAL-MKI062V1 demonstration kit includes a PC GUI for sensor output display and a firmware library to facilitate the use of the demonstration board features. A complete set of communication interfaces (USB, wireless, COM), small 4.5cm x 5cm size, and several power supply options make iNEMO a flexible, open evaluation platform.

497-10048-ND (STEVAL-MKI062V1)........ **$262.50**

NEW! STEVAL-MKI062V2 Evaluation Board

The STEVAL-MKI062V2 is the second generation of the iNEMO™ module family. It combines accelerometers, gyroscopes and magnetometers with pressure and temperature sensors to provide 3-axis sensing of linear, angular and magnetic motion, complemented with temperature and barometer/altitude readings, representing the new ST 10-DOF (degrees of freedom) platform. Based on the pervious version, the STEVAL-MKI062V2 represents another step forward in miniaturization, integrating five ST sensors: a 2-axis roll-and-pitch gyroscope, a 1-axis yaw gyroscope, a 6-axis geomagnetic module, a pressure sensor and a temperature sensor.

497-10508-ND (STEVAL-MKI062V2)........ **$262.50**

NEW! STEVAL-MKI089V1 Evaluation Board

The STEVAL-MKI089V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LIS331DLH pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10493-ND (STEVAL-MKI089V1)........ **$33.08**

NEW! STEVAL-MKI090V1 Evaluation Board

The STEVAL-MKI090V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LIS331DLF pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10492-ND (STEVAL-MKI090V1)........ **$33.08**

NEW! STEVAL-MKI091V1 Evaluation Board

The STEVAL-MKI091V1 can be plugged into a standard DIL 24 socket. The adapter provides the complete LIS331DLM pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

497-10491-ND (STEVAL-MKI091V1)........ **$33.08**

(Continued)

NEW! STM8L1526-EVAL Evaluation Board

The STM8L1526-EVAL evaluation board is a complete demonstration and development platform for STMicroelectronic's STM8 core-based STM8L152C6 microcontroller which supports I2C, SPI, USART, 12-bit ADC, 12-bit DAC, LCD driver, 2KB internal SRAM, 32KB EEPROM and SWIM debugging. The full range of hardware features on the board helps you evaluate all peripherals (motor control, USART, audio DAC, LCD, IR LED, IrDA, SPI Flash, MicroSD Card, temperature sensor and EEPROM… etc.) and develop your own applications. Extension headers facilitate easy connection of a daughterboard or wrapping board for specific applications. An ST-LINK is integrated on the board as the embedded in-circuit debugger and programmer for the STM8 MCU.

497-10590-ND (STM8L1526-EVAL)........ **$198.75**

STEVAL-IFS012V9 Demonstration Board

Multi device temperature sensor demonstrator based on ST72F65x. Demonstration board features: Evaluation system to demonstrate features of ST's new temperature sensor (digital and analog) family, in standalone mode and USB interfaced Graphical User Interface (GUI) mode.
Features: • Measures and displays temperature • I2C / SMBus / SPI/ADC communication compatible • Displays RTC time and date and its featured through GUI • Easy to use GUI, interfaced through USB. GUI can be used to configure the sensors and RTC • Temperature monitoring, storing in NAND and plotting on graph is supported

497-8923-ND (STEVAL-IFS012V9) Card for 8-TSSOP Package **$28.35**

LIS344ALH Demonstration Kit

The STEVAL-MKI014V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS344ALH.

497-8231-ND (STEVAL-MKI014V1)........ **$61.43**

LIS344AL Demonstration Kit

The STEVAL-MKI016V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS344AL.
The LIS344AL is a low-power 3-axis linear capacitive accelerometer that includes a sensing element and an IC interface capable of taking information from the sensing element and providing an analog signal to an external application.

497-8200-ND (STEVAL-MKI016V1)........ **$61.43**

LIS302SG Demonstration Kit

The STEVAL-MKI019V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS302SG.
The LIS302SG is a low-power 3-axis linear capacitive accelerometer that includes a sensing element and an IC interface capable of taking information from the sensing element and providing and analog signal to an external application.

497-8203-ND (STEVAL-MKI019V1)........ **$61.43**

LIS331DL Demonstration Kit

The STEVAL-MKI024V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for demonstration of the LIS331DL. The LIS331DL is a low-power 3-axis linear accelerometer with digital output. The device includes a sensing element and an IC interface capable of translating information from the sensing element into a measured signal that can be used for external applications. In addition to the MEMS sensor, the demonstration board utilizes an ST7-USB microcontroller which functions as a bridge between the sensor and the PC, on which it is possible to use the graphical user interface downloadable to the website or dedicated software routines for customized applications.

497-8719-ND (STEVAL-MKI024V1)........ **$82.39**

LISY300AL Demonstration Kit

The LISY300AL is a low-power single-axis yaw rate gyroscope. It includes a sensing element and an IC interface able to provide the measured angular rate to the external world through an analog output voltage.

497-8504-ND (STEVAL-MKI023V1)........ **$59.85**

NEW! STEVAL-MKI022V1 Demonstration Kit

The STEVAL-MKI022V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for demonstration of the LIS331DLH. The LIS331DLH is a low-power 3-axis linear accelerometer with digital output. The device includes a sensing element and an IC interface capable of translating information from the sensing element into a measured signal that can be used for external applications.

497-9053-ND (STEVAL-MKI022V1)........ **$82.39**

Adapter Boards

497-6227-ND	(STEVAL-MKI009V1)	LIS3LV02DL Adapter Board DIL 20 socket........	**$29.93**
497-8199-ND	(STEVAL-MKI015V1)	Adapter Board for the LIS344ALH	**$40.95**
497-8201-ND	(STEVAL-MKI017V1)	Adapter Board for the LIS344AL........	**$40.95**
497-8202-ND	(STEVAL-MKI018V1)	Adapter Board for the LIS244AL........	**$40.95**
497-8204-ND	(STEVAL-MKI020V1)	Adapter Board for the LIS302SG	**$40.95**

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*i*MEMS® Accelerometers and Gyroscopes

As a MEMS pioneer, Analog Devices has held a leadership position as a large volume supplier of integrated MEMS accelerometers and gyroscopes. The ADXL products are the foundation for Analog Devices accelerometer family. Available in low-g or high-g sensing ranges iMEMS (Integrated Micro Electro Mechanical System) accelerometers are used to measure position, motion, tilt, shock, and vibration in a broad array of applications. Analog Devices offer a broad accelerometer portfolio, including high performance, low power consumption and small size.

Description	G Range	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each			Tape and Reel§	
									1	25	100	Qty.	Pricing
Single Axis Accelerometers													
Low Power, High Performance	±18g	X, Y	100mV/g	0.5Hz ~ 2.5kHz	5	0.7mA	8-CLCC	ADW22035Z-ND	13.64	12.29	10.90	—	—
Low Power, High Performance	±70g	X	24.2mV/g	22kHz	3.3 ~ 5	2.5mA	8-CLCC	ADXL001-70BEZ-ND	49.42	—	—	—	—
Low Power, High Performance	±70g	X	24.2mV/g	22kHz	3.3 ~ 5	2.5mA	8-CLCC	ADXL001-70BEZ-R7CT-ND‡	55.19	51.51	47.83	250	11726.81
Low Power, High Precision	±1.5g	X	1000mV/g	10Hz	3 ~ 6	0.7mA	8-CLCC	ADXL103CE-ND	13.64	12.29	10.90	—	—
Low Power, ADXL78	±35g	X	55mV/g	400Hz	5	1.3mA	8-CLCC	AD22279-A-R2CT-ND‡	11.80	10.62	9.42	250	2256.75
Low Power, ADXL78	±50g	X	38mV/g	400Hz	5	1.3mA	8-CLCC	AD22280-R2CT-ND‡	11.80	10.62	9.42	250	2256.75
Low Power, ADXL78	±70g	X	27mV/g	400Hz	5	1.3mA	8-CLCC	AD22281-R2CT-ND‡	11.80	10.62	9.42	250	2256.75
Low Power, ADXL193	±120g	X	18mV/g	400Hz	5	1.5mA	8-CLCC	AD22282-A-R2CT-ND‡	12.98	11.69	10.37	250	2483.06
Low Power, ADXL193	±250g	X	8mV/g	400Hz	5	1.5mA	8-CLCC	AD22283-B-R2CT-ND‡	12.98	11.69	10.37	250	2483.06
Dual Axis Accelerometers													
Low Power, High Performance	±18g	X, Y	100mV/g	0.5Hz ~ 2.5kHz	5	0.7mA	8-CLCC	ADW22037Z-ND	16.41	14.78	13.11	—	—
Low Power, High Precision	±1.5g	X, Y	1000mV/g	10Hz	3 ~ 6	0.7mA	8-CLCC	ADXL203CE-ND	16.41	14.78	13.11	—	—
Low Power, Single IC Chip	±1.7g	X, Y	620mV/g	2.5kHz	3 ~ 6	0.5mA	8-CLCC	ADXL204CE-ND	19.82	18.50	17.18	—	—
Low Power, Digital Out	±1.2g	X, Y	30%/g	60Hz	3 ~ 6	0.7mA	8-CLCC	ADXL213AE-ND	16.41	14.78	13.11	—	—
Low Power, Small, Thin	±5g	X, Y	174mV/g	2.5kHz	2.4 ~ 5.25	0.45mA	16-LFCSP	ADXL320JCP-ND	13.54	12.20	10.82	—	—
Low Power	±18g	X, Y	57mV/g	50Hz	2.4 ~ 6	0.49mA	16-LFCSP	ADXL321JCP-ND	13.54	12.20	10.82	—	—
Low Power	±2g	X, Y	420mV/g	60Hz	2.4 ~ 6	0.45mA	16-LFCSP	ADXL322JCP-ND	13.54	12.20	10.82	—	—
Low Power, Small	±3g	X, Y	300mV/g	1600Hz	1.8 ~ 5.25	320µA	16-LFCSP	ADXL323KCPZ-ND ***NEW!***	12.15	10.94	9.70	—	—
Low Power, Small	±3g	X, Y	300mV/g	1600Hz	1.8 ~ 5.25	320µA	16-LFCSP	ADXL323KCPZ-RLCT-ND‡	12.15	10.94	9.70	—	—
Low Power, ADXL278	±35g	X, Y	55mV/g	400Hz	5	2.2mA	8-CLCC	AD22284-A-R2CT-ND‡	15.95	14.89	13.82	250	3388.31
Low Power, ADXL278	±50g	X, Y	38mV/g	400Hz	5	2.2mA	8-CLCC	AD22285-R2CT-ND‡	15.95	14.89	13.82	250	3388.31
Low Power, ADXL278	±70g	X, Y	27mV/g	400Hz	5	2.2mA	8-CLCC	AD22286-R2CT-ND‡	15.95	14.89	13.82	250	3388.31
Triple Axis Accelerometers													
Low Power, Small	±3g	X, Y, Z	300mV/g	1.6kHz(X,Y) 550Hz(Z)	2 ~ 3.6	0.2mA	16-LFCSP	ADXL330KCPZ-RLCT-ND‡	12.15	10.94	9.70	4,000	8857.35/M
Low Power, Small	±3g	X, Y, Z	300mV/g	0.5 ~ 1600Hz (X, Y) 0.5 ~ 550Hz (Z)	1.8 ~ 3.6	350µA	16-LFCSP	ADXL335BCPZ-RL7CT-ND‡	5.42	4.34	3.38	1,000	3072.75
Low Power, Small	±5g	X, Y, Z	174mV/g	0.5 ~ 1600Hz (X, Y) 0.5 ~ 550Hz (Z)	1.8 ~ 3.6	350µA	16-LFCSP	ADXL325BCPZ-RL7CT-ND‡ ***NEW!***	4.82	3.86	3.26	1,000	3012.50
Low Power	—	X, Y, Z	—	Variable/Selectable	2 ~ 3.6	40µA	14-LGA	ADXL345BCCZ-RL7CT-ND‡	6.16	4.93	4.16	1,500	3850.00/M
Low Power	—	X, Y, Z	—	Variable/Selectable	2 ~ 3.6	40µA	14-LGA	ADXL345BCCZ-RLCT-ND‡ ***NEW!***	6.16	4.93	4.16	5,000	3757.60/M
Low Power	—	X, Y, Z	—	Variable/Selectable	1.7 ~ 2.75	23µA	16-LGA	ADXL346ACCZ-RL7CT-ND‡ ***NEW!***	6.08	4.87	4.11	1,500	3800.00/M

Description	Range (°/s)	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each			Tape and Reel§	
									1	25	100	Qty.	Pricing
Gyroscopes													
Single Chip Yaw Rate Gyro	±300	Z	6mV/°/s	2500Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS620WBBGZA-ND ***NEW!***	31.47	29.38	27.28	—	—
	±300	Z	6mV/°/s	2500Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS610BBGZ-RLCT-ND‡	31.47	29.38	27.28	—	—
	±250	Z	7mV/°/s	2500Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS622WBBGZA-ND ***NEW!***	31.47	29.38	27.28	—	—
	±150	Z	12.5 mV/°/s	3000Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS623WBBGZ-ND ***NEW!***	31.47	29.38	27.28	—	—
	±150	Z	12.5mV/°/s	3000Hz	4.75 ~ 5.25	5.0mA	32-CBGA	ADXRS613BBGZ-RLCT-ND‡	31.47	29.38	27.28	500	13112.50
	±50	Z	25mV/°/s	1000Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS624WBBGZ-ND ***NEW!***	31.47	29.38	27.28	—	—
	±250	Z	7mV/°/s	2500Hz	4.75 ~ 5.25	3.5mA	32-CBGA	ADXRS652BBGZ-ND ***NEW!***	25.55	23.85	22.14	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ANALOG DEVICES *i*MEMS® Accelerometers and Gyroscopes *(Cont.)*

*i*MEMS® Evaluation Boards

Description	Digi-Key Part No.	Price Each
Evaluation Board for ADXL203	ADXL203EB-ND	32.96
Evaluation Board for ADXL213	ADXL213EB-ND	32.96
Evaluation Board for ADXL322	ADXL322EB-ND ***NEW!***	32.59
Evaluation Board for ADXL335	EVAL-ADXL335Z-ND◆	37.50
Evaluation Board for ADXL345-M	EVAL-ADXL345Z-M-ND◆	311.25
Evaluation Board for ADXL345	EVAL-ADXL345Z-ND◆	37.50
Satellite Board for ADXL345Z-S	EVAL-ADXL345Z-S-ND◆	186.25
Evaluation Board for ADXRS610BBGZ	EVAL-ADXRS610Z-ND◆	55.03

Description	Digi-Key Part No.	Price Each
Evaluation Board for ADXRS612BBGZ	EVAL-ADXRS612Z-ND◆	55.03
Evaluation Board for ADXRS613BBGZ	EVAL-ADXRS613Z-ND◆	55.03
Evaluation Board for ADXRS614BBGZ	EVAL-ADXRS614Z-ND◆	55.03
Evaluation Board for ADXRS622	EVAL-ADXRS622Z-ND◆	62.50
Evaluation Board for ADXL001-500	EVAL-ADXL001-500Z-ND◆	82.54
Evaluation Board for ADXL001-70	EVAL-ADXL001-70Z-ND◆	82.54
Evaluation Board for ADXL326	EVAL-ADXL326Z-ND◆ ***NEW!***	37.50

◆ ***RoHS Compliant***

NEW! *i*MEMS® Omnidirectional Microphones

Digi-Reel® RoHS COMPLIANT

The ADMP421 is a low cost, low power, digital output bottom ported omnidirectional MEMS microphone. The ADMP421 consists of a MEMS microphone element, an impedance converter amplifier, and a fourth-order Σ-Δ modulator. The digital interface allows for the pulse density modulated (PDM) output of two microphones to be time multiplexed on a single data line using a single clock.

The ADMP401 is a high quality, low cost, low power, analog output bottom ported omnidirectional MEMS microphone. The ADMP401 consists of a MEMS microphone element and an impedance converter amplifier.

Description	Dimensions (mm) L x W x H	Sensitivity	Voltage	Current (µA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel§ Qty.	Pricing
MEMS Omnidirectional Microphone with Bottom Port and Digital Output	4.00 x 3.00 x 1.00	-26dB ±3dB	3.6	650	5-LGA	ADMP421ACEZ-RL7CT-ND	5.00	4.00	3.38	1,000	2779.50
MEMS Omnidirectional Microphone with Bottom Port and Analog Output	4.72 x 3.76 x 1.00	-42dB ±3dB	3.6	250	6-LGA	ADMP401ACEZ-RL7CT-ND	3.92	3.14	2.44	1,000	2218.50

§ For Tape and Reel part number, change CT-ND to TR-ND.

ANALOG DEVICES *i*Sensor™ Intelligent Sensors

RoHS COMPLIANT

*i*Sensor ADIS Accelerometers/Gyros enhance ADXL/ADXRS iMEMS accelerometers with additional performance and functionality, such as embedded signal processing and control. These inertial sensors address special requirements such as calibration/tuning, application specific interfaces, digital I/O, wireless links, embedded intelligence and programmability, power management, and analog signal conditioning.

Description	Sensor Core	Output Type	Sensitivity	Temperature Sensor	Voltage Supply (V)	Supply Current (mA)	Temperature Range (°C)	Package (mm/type)	Digi-Key Part No.	Price Each 1	25	100
ADIS Accelerometers												
±1.7g Accelerometer	Accelerometer	SPI	820 LSB/g	Yes	3 ~ 5.25	1.5 (typical)	-40 ~ 125	12-LGA	ADIS16003CCCZ-ND	28.73	26.81	24.90
±5g Accelerometer	Accelerometer	SPI	256 LSB/g	Yes	3 ~ 5.25	1.5 (typical)	-40 ~ 125	12-LGA	ADIS16006CCCZ-ND	28.73	26.81	24.90
Programmable, ±5g Accelerometer	Accelerometer/Ind.	SPI	2 LSB/ mg(10LSB/°)	Yes	3 ~ 3.6	11 (.5 in Standby)	-40 ~ 125	16-LGA	ADIS16201CCCZ-ND	38.24	35.69	33.14
Programmable, Single Axis Inclinometer	360° Inclinometer	SPI	0.025°/LSB	Yes	3 ~ 3.6	11 (.5 in Standby)	-40 ~ 125	16-LGA	ADIS16203CCCZ-ND	38.24	35.69	33.14
Programmable, High-g Sensor/Recorder	Accelerometer/Impact Sensor	SPI	±70g; ±37g	Yes	3 ~ 3.6	12 (.5 in Standby)	-40 ~ 105	16-LGA	ADIS16204BCCZ-ND	32.96	30.76	28.57
Digital Dual Axis Accelerometer/Inclinometer	Accelerometer/ Inclinometer	SPI	0.025°/LSB	Yes	3 ~ 3.6	14	-40 ~ 125	16-LGA	ADIS16209CCCZ-ND	63.59	59.35	55.11
Digital Triple-Axis Accelerometer	Accelerometer	SPI	51.4mg/LSB	Yes	2.4 ~ 3.6	1	-40 ~ 85	112-PBGA	ADIS16240ABCZ-ND ***NEW!***	51.35	47.93	44.50

Range (°/s)	Sensitivity	Output	Bandwidth (Maximum)	Noise Density (°/s / √Hz rms)	Temperature Sensor	Supply Voltage (V)	Supply Current (mA)	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100
ADIS Gyroscope												
±80	0.0122 °/s /LSB	SPI	1000Hz	0.04	Yes	4.75 ~ 5.25	6.5	-40 ~ 105	ADIS16060BCCZ-ND	62.09	57.95	53.81
±80	0.098 °/s /LSB	SPI	40Hz	0.05	Yes	4.75 ~ 5.25	7	-40 ~ 85	ADIS16080ACCZ-ND	54.02	50.42	46.82
±250	0.000042 °/s /LSB	SPI	320Hz	0.0125	Yes	4.75 ~ 5.25	73	-40 ~ 85	ADIS16130AMLZ-ND	869.00	811.07	753.13
±20 ~ ±80	0.004 °/s /LSB	SPI	50Hz	0.05	Yes	4.75 ~ 5.25	18	-40 ~ 85	ADIS16251ACCZ-ND	74.76	69.78	64.80
±75 ~ ±300	0.05 °/s /LSB	SPI	330Hz	0.038	Yes	4.75 ~ 5.25	42	-40 ~ 85	ADIS16300AMLZ-ND	119.40	111.44	103.48
±75 ~ ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	4.75 ~ 5.25	35	-40 ~ 85	ADIS16350AMLZ-ND	516.12	481.72	447.31
±75 ~ ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	4.75 ~ 5.25	33	-40 ~ 85	ADIS16354AMLZ-ND	604.17	563.90	523.62
±350	0.0125 °/s /LSB	SPI	330Hz	0.05	Yes	4.75 ~ 5.25	49	-40 ~ 85	ADIS16360BMLZ-ND	492.87	—	—
±350	0.05 °/s /LSB	SPI	330Hz	0.044	Yes	4.75 ~ 5.25	49	-40 ~ 105	ADIS16362BMLZ-ND ***NEW!***	654.53	610.89	567.26
±350	0.0125 °/s /LSB	SPI	330Hz	0.05	Yes	4.75 ~ 5.25	49	-40 ~ 105	ADIS16364BMLZ-ND	577.02	—	—
±75 ~ ±300	0.0125 °/s /LSB	SPI	350Hz	0.038	Yes	4.75 ~ 5.25	49	-40 ~ 85	ADIS16365BMLZ-ND	635.54	593.17	550.80
±350	0.0125 °/s /LSB	SPI	330Hz	0.05	Yes	4.75 ~ 5.25	70	-40 ~ 105	ADIS16400BMLZ-ND ***NEW!***	552.00	—	—
±350	0.0125 °/s /LSB	SPI	330Hz	0.05	Yes	4.75 ~ 5.25	70	-40 ~ 105	ADIS16405BMLZ-ND	707.54	—	—

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*i*Sensor™ Evaluation Boards

Description	Digi-Key Part No.	Price Each
Evaluation Board for the ADIS16003, ±1.7g. Dual Axis Accelerometer	ADIS16003/PCBZ-ND◆	103.31
Evaluation Board for ADIS16006/PCB	ADIS16006/PCBZ-ND◆	103.31
Evaluation Board for ADIS16060	ADIS16060/PCBZ-ND◆	103.31
Evaluation Board for ADIS16080	ADIS16080/PCBZ-ND◆	103.31
Evaluation Board for the ADIS16100, ±300°/Sec. Yaw Rate Gyro	ADIS16100/PCB-ND	103.31
Evaluation Board for the ADIS16201, Program., Dual-Axis Inclinometer/Accelerometer	ADIS16201/PCBZ-ND◆	103.31
Evaluation Board for the ADIS16203	ADIS16203/PCBZ-ND◆	103.31
Evaluation Board for ADIS16204/PCB	ADIS16204/PCBZ-ND◆	103.31
Evaluation Board for ADIS16209	ADIS16209/PCBZ-ND◆	103.31
Evaluation Board for ADIS16240	ADIS16240/PCBZ-ND◆ ***NEW!***	103.31
Evaluation Board for ADIS16251	ADIS16251/PCBZ-ND◆	103.31

Description	Digi-Key Part No.	Price Each
Evaluation Board for Tri Gyro Accelerometer	ADIS16350/PCBZ-ND◆	527.44
Evaluation Board for ADIS16354	ADIS16354/PCBZ-ND◆	616.31
Evaluation Board for ADIS16355	ADIS16355/PCBZ-ND◆	674.25
Evaluation Board for ADIS16360	ADIS16360/PCBZ-ND◆	576.38
Evaluation Board for ADIS16364	ADIS16364/PCBZ-ND◆	663.38
Evaluation Board Interface for ADIS16365	ADIS16365/PCBZ-ND◆	739.50
Evaluation Board for ADIS16400	ADIS16400/PCBZ-ND◆ ***NEW!***	641.63
Evaluation Board for ADIS16405	ADIS16405/PCBZ-ND◆	810.19
iSensor PC Evaluation System	ADISEVALZ-ND◆	320.81
iSensor PC-USB Evaluation System	ADISUSBZ-ND◆	281.25

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

ACH-01 Accelerometers

The ACH-01 Accelerometer is a robust, general purpose, linear single axis accelerometer featuring buffered electronic output.

Specifications: • Sensitivity: 10mV/g • Lower Frequency Limit (-3dB): 2Hz • Upper Frequency Limit (+3dB): 20kHz • Dynamic Range: ±150g • Linearity: 0.1% • Resonant Frequency: 35kHz • Operating Temperature: -40°C ~ 85°C • Maximum Shock Level: 1000g

ACH-01-03 with Shielded Cable

Dimensions in mm

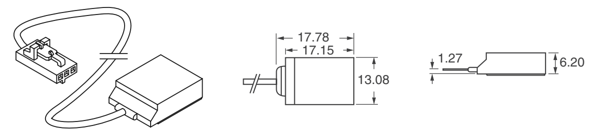

Description	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
ACH-01-03 Sensor Accelerometer with 40" Single Coax Cable and Female Connector	MSP1001-ND	45.00	40.00	35.50	1-1001220-0
ACH-01-04 Sensor Accelerometer with Wires	MSP1002-ND	37.50	33.75	30.00	1-1001497-0

Amplifier Box

For use with ACH-01-03 and ACH-01-04

Characteristics: • **Gain:** 10X • **Power Supply:** 9V Battery • **Supply Current:** 4.0mA • **Input Interface:** FET for ACH-01 • **Output Impedance:** 100Ω • **Output Connector:** BNC

Description	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
IB-ACH-01 — Amplifier Box	MSP1003-ND	250.00	225.00	202.50	0-1003058-0

Basic Design Kit

This kit demonstrates the use of MSI piezo film sensors as microphones, speakers, switches and acoustic pickups. All components and film samples in the kit can be used for experimentation.
Kit Includes: • Seven sensor elements • One piezo cable • One PCB for ACH-04-08 • Application/instruction specifications • Technical manual

Description	Digi-Key Part No.	Price Each	Measurement Specialties Part No.
Basic Design Kit	MSP1010-ND	200.00	0-1004308-0

LDT Vibration Sensors

Typically, a 0.005" (125μm) polyester layer is laminated to a 28μm piezo film element. When used in a "bending" mode, laminated film elements develop much higher voltage output when flexed than non-laminated elements. The piezo film is off the neutral axis in the laminate, and is strained more when flexed.

LDT0-028K High Sensitivity

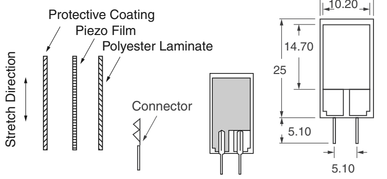

LDTM

Dimensions in mm

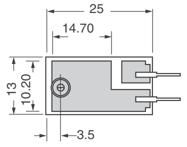

Also available with a mass (M) which provides higher output (mv/g) for higher sensitivity applications.

MiniSense

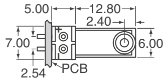

Description	Cap. (nF)	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
LDT0-028K, with Solder Tabs	.500	MSP1006-ND	2.40	2.00	1.80	1002794-0
LDTM-028K, with Mass and Solder Tabs	.420	MSP1007-ND	2.85	2.38	2.14	0-1005447-1
MiniSense 100 (Horizontal)	—	MSP6914-ND	4.00	3.38	2.75	1005939-1
MiniSense 100 (Vertical)	—	MSP6915-ND	4.00	3.38	2.75	1005940-1

Pressure Sensors

The SCP1000 performs almost complete data processing on-chip. The communication between the SCP1000 and its host micro-controller (μC) is based on a serial interface, an interrupt line and specialized pins used to trigger special functions. Two different serial interfaces are available: SPI and TWI (TWI is very similar to I²C bus). The appropriate communication interface is pre-programmed in the factory.
The SCP1000 pressure demonstrator is designed to give a quick access and understanding on the performance and capabilities of the SCP1000 pressure component. The demo kit supports SCP1000-D01 and SCP1000-D11 sensors.
SCP1000 Demo Kit Includes: SCP1000-D01 sensor soldered on chip carrier PCB, USB interface card inside the demo box, USB cable, CD-ROM with documentation, drivers and GUI software running on PC

Dimensions in mm

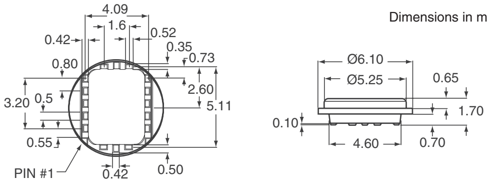

Description	Supply Voltage	Average Supply Current (μA)	Measuring Range (kPa)	Temperature Range	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	VTI Part No.
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	SPI Interface	551-1046-1-ND	29.73	28.32	26.97	551-1046-2-ND	100	2446.20	SCP1000-D01
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I2C Interface	551-1043-1-ND	29.73	28.32	26.97	—	—	—	SCP1000-D11
SCP1000-D11 on PCB	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I2C Interface	551-1044-ND†	57.08	56.06	55.04	—	—	—	SCP1000 PCB3

† Bulk

Accelerometers and Inclinometers

Dim. in mm

VTI Technologies is a forerunner in motion and pressure sensors and the world's leading designer and producer of acceleration sensors.

VTI develops and produces silicon based capacitive sensors with unique 3D-MEMS (MicroElectroMechanical System) technology, with application areas in acceleration, inclination, shock, vibration and pressure measurement.

Fig. 1

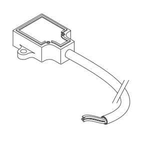

Fig. 2

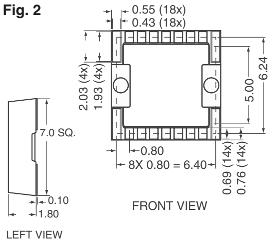

Fig. 3

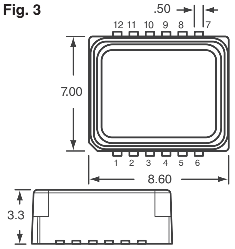

Fig. 4

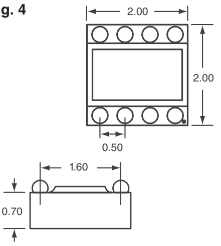

Fig.	Description	Supply Voltage (V)	Current Consumption (Typ.)	Measuring Range	Sensitivity	Frequency Response (Hz)	Temperature Range (°C)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Tape and Reel† Qty.	Pricing	VTI Part No.
Inclinometers															
—	Single Output, 1g	4.75 ~ 5.25	2.5mA	±90°	2V/g	8 ~ 28	-55 ~ 125	8-DIL SMD	551-1005-1-ND	49.16	46.82	44.60	100	4044.60	SCA61T-FA1H1G
	Single Output, 0.5g	4.75 ~ 5.25	2.5mA	±30°	4V/g	8 ~ 28	-55 ~ 125	8-DIL SMD	551-1004-1-ND	49.16	46.82	44.60	100	4044.60	SCA61T-FAHH1G
	Dual Output, 0.5g	4.75 ~ 5.25	4mA	±30°	4V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1002-1-ND	64.62	61.55	58.62	100	5316.80	SCA100T-D01
	Dual Output, 1g	4.75 ~ 5.25	4mA	±90°	2V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1003-1-ND	64.62	61.55	58.62	100	5316.80	SCA100T-D02
	Single Output, 0.26g	4.75 ~ 5.25	4mA	±15°	16V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1000-1-ND	64.62	61.55	58.62	100	5316.80	SCA103T-D04
	Single Output, 0.5g	4.75 ~ 5.25	4mA	±30°	8V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1001-1-ND	64.62	61.55	58.62	100	5316.80	SCA103T-D05

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

(Continued)

Accelerometers and Inclinometers *(Cont.)*

Fig.	Description	Supply Voltage (V)	Current Consumption (Typ.)	Measuring Range	Sensitivity	Frequency Response (Hz)	Temperature Range (°C)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		VTI Part No.
										1	10	25	Qty.	Pricing	
	Accelerometers														
—	Dual Output	4.75 ~ 5.25	5mA	±1.7g	1.2V/g	50±30	-55 ~ 125	12-DIL SMD	551-1008-1-ND	55.31	52.68	50.17	100	4550.00	SCA1020-D02
	Dual Output	4.75 ~ 5.25	4.5mA	±4g	.55V/g	115±55	-55 ~ 125	12-DIL SMD	551-1025-1-ND	89.21	84.97	80.92	100	7339.70	SCA1000-N1000070
	Single Output	4.75 ~ 5.25	2mA	±0.5g	4V/g	18±10	-55 ~ 125	8-DIL SMD	551-1009-1-ND	45.36	43.10	40.94	—	—	SCA610-CAHH1G
	Single Output	4.75 ~ 5.25	2mA	±1g	2V/g	18±10	-55 ~ 125	8-DIL SMD	551-1010-1-ND	49.16	46.82	44.60	100	3000.20	SCA610-CA1H1G
	Single Output	4.75 ~ 5.25	2mA	±1.7g	1.2V/g	50±30	-55 ~ 125	8-DIL SMD	551-1012-1-ND	39.62	37.73	35.94	100	3260.40	SCA610-C28H1A
	Single Output	4.75 ~ 5.25	2mA	±1.7g	1.2V/g	50±30	-55 ~ 125	8-DIL SMD	551-1013-1-ND	47.57	45.31	43.15	100	2935.40	SCA620-CF8H1A
	Stand Alone Inclinometers and Accelerometers														
1	Dual Axis	7 ~ 35	5mA	±90°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1017-ND‡	159.82	130.47	110.90	—	—	SCA121T-D03
	Dual Axis	4.75 ~ 5.25	5mA	±90°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1029-ND‡	159.82	130.47	110.90	—	—	SCA121T-D05
	Dual Axis	7 ~ 35	5mA	±30°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1018-ND‡	159.82	130.47	110.90	—	—	SCA121T-D07
2	Triple Axis Digital	2.35 ~ 3.6	480µA	±2g	1333/g	45	-40 ~ 85	SPI Interface	551-1033-1-ND	29.73	28.32	26.97	100	2446.20	SCA3000-D01
	Triple Axis Digital	2.35 ~ 3.6	650µA	±2g	1333/g	45	-40 ~ 85	I2C Interface	551-1035-1-ND	29.73	28.32	26.97	—	—	SCA3000-D02
	Triple Axis Digital	2.35 ~ 3.6	120µA	±3g	1000/g	35	-40 ~ 85	SPI Interface	551-1037-1-ND	29.73	28.32	26.97	—	—	SCA3000-E01
	Triple Axis Digital	2.35 ~ 3.6	200µA	±3g	1000/g	40	-40 ~ 85	I2C Interface	551-1039-1-ND	29.73	28.32	26.97	—	—	SCA3000-E02
	Triple Axis Digital	2.35 ~ 3.6	120µA	±18g	160/g	Selectable	-40 ~ 85	SPI Interface	551-1048-1-ND	23.33	21.70	20.07	100	1633.00	SCA3000-E05
	Triple Axis Digital	2.35 ~ 3.6	120µA	±18g	160/g	Selectable	-40 ~ 85	SPI Interface	551-1050-ND‡	57.08	56.06	55.04	—	—	SCA3000-E05 PWB
—	Dual Axis Subassembly	7 ~ 35	4.5mA	±10°	200mV/°	3	-40 ~ 85	PC Board	551-1020-ND‡	105.70	94.59	81.54	—	—	SCL1700-D01
3	Single Z-Axis Digital	3.3	5mA	±2g	900/g	80	-40 ~ 125	SPI Interface	551-1051-1-ND	39.27	36.00	32.73	100	2617.70	SCA820-D04
	Single Y-Axis Digital	3.3	5mA	±2g	900/g	80	-40 ~ 125	SPI Interface	551-1052-1-ND	37.56	34.44	31.31	100	2504.30	SCA830-D06
	Single Y-Axis Digital	3.3	5mA	±1g	32000/g	6.25	-40 ~ 125	SPI Interface	551-1053-1-ND	53.20	48.77	44.34	100	3546.60	SCA830-D07
	Dual XY-Axis Digital	3.3	3mA	±2g	900/g	55	-40 ~ 125	SPI Interface	551-1054-1-ND	49.82	45.67	41.52	100	3321.40	SCA2100-D02
	Triple XYZ-Axis Digital	3.3	3mA	±2g	900/g	55	-40 ~ 125	SPI Interface	551-1055-1-ND	61.22	56.12	51.02	100	4081.40	SCA3100-D04
	Triple XYZ-Axis Digital	3.3	3mA	±6g	650/g	55	-40 ~ 125	SPI Interface	551-1067-1-ND ***NEW!***	61.24	56.14	51.03	100	4082.40	SCA3100-D07
	Triple XYZ-Axis Digital	3 ~ 3.6	150µA	±2g	1000/g	35	-40 ~ 105	SPI Interface	551-1073-1-ND ***NEW!***	16.88	15.48	14.07	100	1125.36	SCA3060-D01
—	SCA820-D04 on PCB	3.3	—	±2g	900/g	80	-40 ~ 125	SPI Interface	551-1057-ND‡	85.62	78.49	74.21	—	—	SCA820-D04 PCB
	SCA830-D06 on PCB	3.3	—	±2g	900/g	80	-40 ~ 125	SPI Interface	551-1058-ND‡	85.62	78.49	74.21	—	—	SCA830-D06 PCB
	SCA830-D07 on PCB	3.3	—	±1g	32000/g	6.25	-40 ~ 125	SPI Interface	551-1059-ND‡	85.62	78.49	74.21	—	—	SCA830-D07 PCB
	SCA2100-D02 on PCB	3.3	—	±2g	900/g	55	-40 ~ 125	SPI Interface	551-1060-ND‡	85.62	78.49	74.21	—	—	SCA2100-D02 PCB
	SCA3100-D04 on PCB	3.3	—	±2g	900/g	55	-40 ~ 125	SPI Interface	551-1061-ND‡	85.62	78.49	74.21	—	—	SCA3100-D04 PCB
	SCA3100 Demo w/D04 on PCB	—	—	—	—	—	—	Demo Kit	551-1056-ND‡	570.78	—	—	—	—	SCA3100 DEMO KIT
	SCA3060-D01 on PWB	3 ~ 3.6	—	±2g	1000/g	—	-40 ~ 105	SPI Interface	551-1075-ND‡ ***NEW!***	96.45	78.74	66.93	—	—	SCA3060-D01 PWB
	SCA3060 Demo w/D01 on PWB	—	—	—	—	—	—	Demo Kit	551-1074-ND‡ ***NEW!***	675.17	551.16	468.49	—	—	SCA3060-D01DEMO
4	Triple Axis Digital	1.7 ~ 3.6	70µA	±2g, ±8g	56/g, 14/g	50	-40 ~ 85	SPI/ I2C Interface	551-1062-1-ND	8.90	8.46	8.04	100	649.10	CMA3000-D01
	Triple Axis Analog Output	1.7 ~ 3.6	180µA	±2g, ±8g	6/g, 24/g	50	-40 ~ 85	SPI/ I2C Interface	551-1063-1-ND	8.90	8.46	8.04	100	649.10	CMA3000-A01
—	Board PWB Accelerometer 3-Axis SPI/I2C	1.7 ~ 3.6	180µA	±2g, ±8g	6/g, 24/g	50	-40 ~ 85	SPI/ I2C Interface	551-1065-ND‡	52.92	—	—	—	—	CMA3000-A01 PWB
	Board PWB Accelerometer 3-Axis SPI/I2C	1.7 ~ 3.6	70µA	±2g, ±8g	56/g, 14/g	50	-40 ~ 85	SPI/ I2C Interface	551-1064-ND‡	52.92	—	—	—	—	CMA3000-D01 PWB
	Kit Demo Accelerometer CMA3000-D01	1.7 ~ 3.6	70µA	±2g, ±8g	56/g, 14/g	50	-40 ~ 85	Demo Kit	551-1066-ND‡	151.20	—	—	—	—	CMA3000-D01 DEMO

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

NEW! Combined Gyroscope and 3-Axis Accelerometer

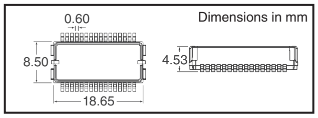

Description: • A combined high performance gyroscope and accelerometer component. The sensor is based on VTI's proven capacitive 3D-MEMS technology. The housing is suitable for SMD mounting and the component is compatible with ROHS and ELV directives. **Features:** • SCC1300-D02: ±100°/s angular rate measurement range; SCC1300-D04: ±300°/s angular rate measurement range • Angular rate measurement around X axis • Digital SPI interfacing **Applications:** • Inertial Measurement Units (IMUs) for highly demanding environments • Roll over detection • Robotic control systems • Guidance systems

Description	Supply Voltage (V)	Current Consumption (Typ.)	Measuring Range (g)	Sensitivity (LSB/g)	Frequency Response (Hz)	Temp. Range (°C)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		VTI Part No.
								1	10	25	Qty.	Pricing	
Triple Axis Digital - SPI	5	3	2	1800	50	-40 ~ 125	551-1068-1-ND	162.43	154.31	146.59	50	6963.25	SCC1300-D02
Triple Axis Digital - SPI	5	3	6	650	50	-40 ~ 125	551-1069-1-ND	162.43	154.31	146.59	50	6963.25	SCC1300-D04
SCC1300-D02 on PWB	5	3	2	1800	50	-40 ~ 125	551-1071-ND‡	244.62	—	—	—	—	SCC1300-D02 PWB
SCC1300-D04 on PWB	5	3	6	650	50	-40 ~ 125	551-1072-ND‡	244.62	—	—	—	—	SCC1300-D04 PWB
SCC1300 Demo w/D04 on PWB	5	3	6	650	50	-40 ~ 125	551-1070-ND‡	611.55	—	—	—	—	SCC1300-D04DEMO

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

Bosch Sensortec BOSCH

Acceleration and Pressure Sensors

BMA020/BMA150: The BMA020/BMA150 is a triaxial, digital low-g acceleration sensor with digital interfaces, aiming for low-power consumer market applications. **Features:** • Switchable g-range and bandwidth • Low-power consumption

BMA140/BMA145: The BMA140/145 is an analog, triaxial low-g acceleration sensor for consumer market applications, available in a super-flat land grid array (LGA) package with a very small footprint and height of merely 0.9mm. **Features:** • Triaxial, analog low-g sensor with three parallel outputs • ±4g range • Ultra low power consumption • Very wide power supply range • Internal filtering capability

BMD040: The BMD040 analog output, absolute pressure sensor comprises a piezo-resistive 3MPa pressure sensor element and a circuitry for signal amplification and temperature compensation. **Features:** • High precision barometric pressure sensor • TO-8 metal can package • Fully calibrated • Temperature compensated • ESD-protection and short circuit protected

BMP085: The BMP085 is a high-precision, ultra-low power barometric pressure sensor for use in advanced mobile applications. **Features:** • Wide barometric pressure range • Flexible supply voltage range • Ultra-low power consumption • Fully calibrated • Small, flat package

SMD085: The SMD085 is a high precision barometric pressure sensor. It consists of an integrated sensing element, a logic control unit, a temperature compensation circuit, as well as an offset compensation circuit. **Features:** • Temperature compensated • Fast ratiometric analog output • On chip fully calibrated transfer function

BMA120: The BMA120 is a triaxial, low-g acceleration sensor with digital interfaces, aiming for low-power consumer market applications. The BMA120 senses tilt, motion, shock and vibration in cell phones, handhelds, computer peripherals, man-machine interfaces, virtual reality features and game controllers.

BMA220: The BMA220 allows measurement of accelerations in 3 perpendicular axes and thus senses tilt, motion, shock and vibration in cell phones, handhelds, computer peripherals, man-machine interfaces, virtual reality features and game controllers.

Fig.	Axis	Range	Output	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Bosch Sensortec Part No.
					1	10	100		Qty.	Pricing	
1	x/y/z	±2g/±4g/±8g	Digital	828-1000-1-ND◆	5.16	4.30	3.62	828-1000-2-ND◆	5,000	2408.00/M	BMA020
	x/y/z	±2g/±4g/±8g	Digital	828-1003-1-ND◆	4.86	4.05	3.41	828-1003-2-ND◆	5,000	2520.00/M	BMA150
	x/y/z	±4g	Analog	828-1001-1-ND◆	4.83	4.03	3.39	828-1001-2-ND◆	5,000	2254.00/M	BMA140
	x/y/z	±2g/±4g/± 8g/±16g	Digital	828-1015-1-ND◆ ***NEW!***	3.24	2.70	2.27	828-1015-2-ND◆	5,000	1512.00/M	BMA120
2	x/y/z	±4g	Analog	828-1002-1-ND◆	5.31	4.43	3.72	828-1002-2-ND◆	5,000	2478.00/M	BMA145
3	—	300 ~ 1,100hPa	Digital	828-1005-1-ND◆	8.79	7.33	6.16	828-1005-2-ND◆	3,000	4248.50/M	BMP085
4	—	60 ~ 115kPa	Analog	828-1006-1-ND◆	8.97	7.48	6.28	—	—	—	SMD085
5	x/y/z	±2g/±4g/± 8g/±16g	Digital	828-1016-1-ND◆ ***NEW!***	3.09	2.58	2.17	828-1016-2-ND◆	10,000	1369.90/M	BMA220
—	—	50 ~ 3,000kPa	Analog	828-1004-ND◆†	24.38	20.70	17.48	—	—	—	BMD040-3MP
Development Board for Sensor ICs				828-1007-ND	530.00	—	—	—	—	—	0330.DB0.022
BMA020 Daughtercard for Development Kit				828-1008-ND	79.50	—	—	—	—	—	BMA020-SHUTL
BMA150 Daughtercard for Development Kit				828-1009-ND	79.50	—	—	—	—	—	BMA150-SHUTL
BMA140 Daughtercard for Development Kit				828-1010-ND	79.50	—	—	—	—	—	BMA140-SHUTL
BMA145 Daughtercard for Development Kit				828-1011-ND	79.50	—	—	—	—	—	BMA145-SHUTL
BMP085 Daughtercard for Development Kit				828-1012-ND	79.50	—	—	—	—	—	BMP085-SHUTL
BMA120 Daughtercard For Development Kit				828-1017-ND◆† ***NEW!***	79.50	67.50	57.00	—	—	—	BMA120-SHUTL
BMA220 Daughtercard For Development Kit				828-1018-ND◆† ***NEW!***	79.50	67.50	57.00	—	—	—	BMA220-SHUTL

◆ ***RoHS Compliant*** † Bulk

Dimensions in mm

Fig. 1

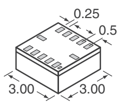

Fig. 2

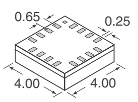

Fig. 3

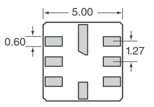

Fig. 4

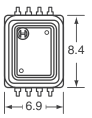

Fig. 5 ***NEW!***

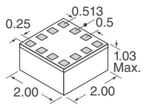

Honeywell
Sensing and Control

Discrete NTC Thermistors

Bead Thermistors: Features: • Relatively uniform size • Offer ultra-fast time response • Highly sensitive to electric power **Specifications:** • Operating Temperature Range: -60°C ~ 300°C • Encapsulation: Glass hermetic seal • Lead Material: Platinum iridium • Dissipation constant (DC): 0.1 mW/°C (in still air) minimum • Time constant: 1s (in still air) maximum

Glass Probe Thermistors: Features: • Operating Temperature Range: -60°C ~ 300°C • Encapsulation: Glass • Lead Material: Dumet (copper clad Ni-Fe wire) • Dissipation constant (DC): Standard: 1.0 mW/°C in still air minimum, Mini: 0.7 mW/°C (in still air) minimum • Time constant: Standard: 22s (in still air) maximum, Mini: 10s (in still air) maximum

Glass Encapsulated Chip Thermistors: Features: • High quality line of low cost hermetically sealed, glass-encapsulated units • Evolved from highly successful and field proven Honeywell Standard Chip Series • DO-35 package

Uni-Curve® Series: Features: • High quality, low cost resistance temperature matched interchangeable thermistors • Accuracy • High stability • Epoxy coated

Disc Thermistors: Features: • Ideally suited for low cost applications with a maximum temperature of 150°C • PC Board mountable • Solderable leads • Tinned copper leads

Axial

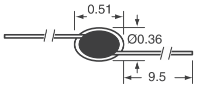

Mini

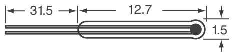

Adjacent

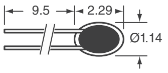

Standard

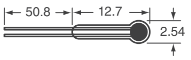

DO-35

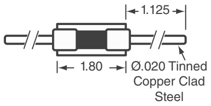

Uni-Curve

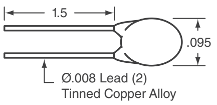

Disc

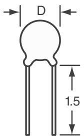

Resistance @25°C (Ω)	Tolerance @25°C (%)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
Small Bead Thermistors						
Axial						
2K	±25.0	480-3113-ND	9.10	6.66	6.23	111-202CAK-H01
2K	±25.0	480-3114-ND	11.74	8.99	8.49	111-202CAK-H02
Large Bead Thermistors						
Adjacent						
1K	±20.0	480-3115-ND	11.69	8.55	8.01	112-102EAJ-B01
2K	±20.0	480-3118-ND	11.58	8.87	8.38	112-202EAJ-B01
10K	±20.0	480-3116-ND	11.67	8.93	8.44	112-103FAJ-B01
100K	±20.0	480-3117-ND	11.79	9.02	8.52	112-104KAJ-B01
Glass Probe Thermistors						
Mini						
1K	±20.0	480-3119-ND	11.37	8.32	7.79	120-102EAJ-Q01
2K	±20.0	480-3120-ND	24.70	19.65	18.42	120-202EAD-Q02
2K	±20.0	480-3121-ND	12.43	9.52	8.99	120-202EAG-Q01
Standard						
1K	±20.0	480-3122-ND	21.15	16.83	15.77	121-102EAJ-Q01
2K	±20.0	480-3125-ND	12.11	8.86	8.30	121-202EAJ-Q01
10K	±20.0	480-3123-ND	12.09	8.85	8.28	121-103FAJ-Q01
100K	±20.0	480-3124-ND	13.41	10.27	9.70	121-104KAH-Q01
Glass Encapsulated Thermistors						
DO-35						
1K	±10.0	480-3126-ND	1.03	.64	.58	135-102DAG-J01
10K	±10.0	480-3127-ND	1.26	.78	.70	135-103FAD-J01
10K	±5.0	480-3128-ND	1.22	.72	.60	135-103FAF-J01
10K	±10.0	480-3129-ND	1.09	.64	.54	135-103FAG-J01
10K	±10.0	480-3130-ND	1.26	.74	.62	135-103FBX-J01
10K	±5.0	480-3131-ND	1.02	.64	.57	135-103LAF-J01
10K	±10.0	480-3132-ND	1.02	.64	.57	135-103LAG-J01
50K	±10.0	480-3140-ND	1.02	.64	.57	135-503LAG-J01
100K	±1.0	480-3133-ND	1.08	.67	.60	135-104LAC-J01
100K	±5.0	480-3134-ND	1.11	.65	.55	135-104LAF-J01
100K	±10.0	480-3135-ND	1.11	.65	.55	135-104LAG-J01
100K	±5.0	480-3136-ND	1.11	.65	.55	135-104LBF-J01
100K	±10.0	480-3137-ND	1.08	.67	.60	135-104QAD-J01
200K	±10.0	480-3139-ND	1.27	.75	.63	135-204QAG-J01
1M	±10.0	480-3138-ND	1.26	.74	.62	135-105QAG-J01

Resistance @25°C (Ω)	Tolerance @25°C (%)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
Uni-Curve® Series						
500	±0.2	480-3163-ND	4.07	2.79	2.51	192-501DET-A01
1K	±1.0	480-3157-ND	4.09	2.80	2.52	192-102DEW-A01
2.2K	±0.2	480-3160-ND	3.88	2.66	2.39	192-222LET-A01
3K	±0.2	480-3161-ND	3.60	2.47	2.22	192-302LET-A01
5K	±0.2	480-3164-ND	3.75	2.57	2.31	192-502LET-A01
10K	±0.2	480-3158-ND	4.38	3.00	2.70	192-103LET-A01
30K	±1.0	480-3162-ND	3.75	2.57	2.31	192-303KET-A01
50K	±0.2	480-3165-ND	3.62	2.48	2.23	192-503QET-A01
100K	±0.2	480-3159-ND	3.75	2.57	2.31	192-104QET-A01

Dim. D (Inch)	Resistance @25°C (Ω)	Tolerance @25°C (%)	Digi-Key Part No.	Price Each 1	10	25	Honeywell Sensing Part No.
Disc Thermistors							
0.1	500	±10.0	480-3143-ND	2.66	1.73	1.58	140-501FAG-RB1
0.1	1K	±10.0	480-3141-ND	2.66	1.73	1.58	140-102FAG-RB1
0.1	5K	±10.0	480-3144-ND	2.61	1.70	1.54	140-502LAG-RB1
0.1	10K	±10.0	480-3142-ND	2.66	1.73	1.58	140-103LAG-RB1
0.2	100	±10.0	480-3145-ND	2.94	1.91	1.74	143-101FAG-RC1
0.2	200	±10.0	480-3147-ND	2.94	1.91	1.74	143-201FAG-RC1
0.2	1K	±10.0	480-3146-ND	3.27	2.13	1.93	143-102LAG-RC1
0.2	3K	±10.0	480-3148-ND	2.94	1.91	1.74	143-302LAG-RC1
0.2	30K	±10.0	480-3149-ND	2.94	1.91	1.74	143-303QAG-RC1

Size Code	Resistance @25° (Ω)	Tolerance @25° (%)	Digi-Key Part No.	Cut Tape Price Each 1	10	25	T&R‡ Pricing 3,000	Honeywell Sensing Part No.
SMD Thermistors								
0805	5K	±5.0	480-3152-1-ND	1.25	.73	.62	338.00/M	173-502GAF-301
	10K	±2.0	480-3150-1-ND	1.72	1.07	.96	561.00/M	173-103LAD-301
	47K	±5.0	480-3151-1-ND	1.46	.91	.81	476.00/M	173-473LAF-301
1206	5K	±5.0	480-3155-1-ND	1.77	1.10	.98	575.00/M	175-502GAF-301
	10K	±3.0	480-3153-1-ND	1.94	1.20	1.08	632.00/M	175-103LAE-301
	50K	±10.0	480-3156-1-ND	1.98	1.23	1.10	646.00/M	175-503LAG-301
	440K	±5.0	480-3154-1-ND	1.63	1.01	.90	530.00/M	175-444QBF-301

‡ For Tape and Reel Part Number Change 1-ND to 2-ND.

TDK

Surface Mount NTC Thermistors

NTC (Negative Temperature Coefficient) Thermistors are manufactured from sintered metal oxides. TDK thermistors have low thermal time constraints, which result in extremely high rates of resistance change to accurately track the temperature.

Features:

- Layered internal electrode structure
- Good stability of resistance value after soldering

Size Code	Dimensions - mm L	W	T	B
0402	1.0 ±0.05	0.5 ±0.05	0.5 ±0.05	0.1 Min.
0603	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 Min.

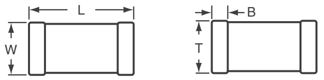

Size Code	Nominal Resistance @ B25°/85° (Ω)	B Constant 25°/85°C	25°/50°C	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
0402	10K	3435K ±1%	3380K ±1%	445-2550-1-ND	.31	2.71	21.31	445-2550-2-ND	10,000	101.00/M	NTCG103JF103FT1
	100K	4500K ±1%	4498K ±1%	445-2552-1-ND	.31	2.71	21.31	—	—	—	NTCG104KF104FT1
0603	10K	3435K ±1%	3380K ±1%	445-2554-1-ND	.35	3.07	24.12	445-2554-2-ND	4,000	132.00/M	NTCG163JF103FT1
	10K	4100K ±3%	4067K ±3%	445-2555-1-ND	.29	2.56	20.10	445-2555-2-ND	4,000	110.00/M	NTCG164BH103HT1
	100K	4500K ±1%	4498K ±1%	445-2556-1-ND	.35	3.07	24.12	445-2556-2-ND	4,000	132.00/M	NTCG164KF104FT1

Axial Leaded Glass NTC Thermistors

Features:

- The NTCDS Series features a glass-sealed construction identical to that of DHDs (Double Heatsink Diodes).
- Tight tolerances are maintained in resistance vs. temperature characteristics.
- The application of semiconductor mass production techniques has resulted in considerable size reduction and improved consistency.

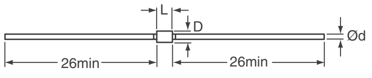

Nominal Resistance @ 25°C	B Constant @25°C ~ 85°C	Dimensions (mm) L	D	d	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
10kΩ	3400K ±2%	3.0	1.8ø	0.45ø	445-4828-ND	3.60	3.15	2.48	NTCDS3HG103GC3NB
100kΩ	3850K ±2%	4.0	2.0ø	0.55ø	445-4829-ND	3.40	2.98	2.34	NTCDS3SG104GC4NB

SMD NTC Thermistors

Features: • Excellent solderability and high stability in environment • Long time aging stability • High accuracy in resistance and B-constant • Reflow soldering possible • Lead is not contained in the product • Operating Temperature Range -40°C ~ 125°C • **Free Thermistor design tool - "Output Voltage Simulator" is available at http://murata.com/designlib/index.html**

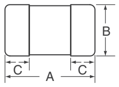

Size Code	Dimensions - mm A	B	C
0201	0.6	0.3	0.15
0402	1.0	0.5	0.25
0603	1.6	0.8	0.6
0805	2.0	1.25	0.7

Resistance 25°C Ω	B-Constant 25-50°C (k) ±3%	Toler-ance 25°C (%)	Max. Operating Current 25°C (mA)	Rated Electric Power 25°C (mW)	Typical Dissipation Constant 25°C (mW/°C)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Qty.	Pricing	
0201 Series													
11	2750	±5	9.50	100	1	490-4637-1-ND	.17	1.52	11.91	490-4637-2-ND	15,000	62.00/M	NCP03YS110J05RL
22	2750	±5	6.70	100	1	490-4638-1-ND	.17	1.52	11.91	490-4638-2-ND	15,000	62.00/M	NCP03YS220J05RL
33	2750	±5	5.50	100	1	490-4639-1-ND	.17	1.52	11.91	490-4639-2-ND	15,000	62.00/M	NCP03YS330J05RL
47	2750	±5	4.60	100	1	490-4640-1-ND	.17	1.52	11.91	490-4640-2-ND	15,000	62.00/M	NCP03YS470J05RL
68	2750	±5	3.80	100	1	490-4641-1-ND	.17	1.52	11.91	490-4641-2-ND	15,000	62.00/M	NCP03YS680J05RL
100	2750	±5	3.10	100	1	490-4642-1-ND	.17	1.52	11.91	490-4642-2-ND	15,000	62.00/M	NCP03YS101J05RL
6.8k	3380	±5	0.38	100	1	490-4643-1-ND	.17	1.52	11.91	490-4643-2-ND	15,000	62.00/M	NCP03XH682J05RL
10k	3380	±5	0.31	100	1	490-4644-1-ND	.17	1.48	11.61	490-4644-2-ND	15,000	60.00/M	NCP03XH103J05RL
15k	3380	±5	0.25	100	1	490-4645-1-ND	.17	1.52	11.91	490-4645-2-ND	15,000	62.00/M	NCP03XH153J05RL
22k	3380	±5	0.21	100	1	490-4646-1-ND	.17	1.52	11.91	490-4646-2-ND	15,000	62.00/M	NCP03XH223J05RL
33k	4250	±5	0.17	100	1	490-4647-1-ND	.17	1.52	11.91	490-4647-2-ND	15,000	62.00/M	NCP03WF333J05RL
47k	4050	±5	0.14	100	1	490-4648-1-ND	.17	1.52	11.91	490-4648-2-ND	15,000	62.00/M	NCP03WB473J05RL
68k	4250	±5	0.12	100	1	490-4649-1-ND	.17	1.52	11.91	490-4649-2-ND	15,000	62.00/M	NCP03WF683J05RL
100k	4250	±5	0.10	100	1	490-4650-1-ND	.17	1.48	11.61	490-4650-2-ND	15,000	60.00/M	NCP03WF104J05RL
0402 Series													
22	3100	±5	6.70	100	1	490-2408-1-ND	.11	.96	7.56	490-2408-2-ND	10,000	39.19/M	NCP15XC220J03RC
33	3100	±5	5.50	100	1	490-2409-1-ND	.15	1.29	10.15	490-2409-2-ND	10,000	39.19/M	NCP15XC330J03RC
47	3100	±5	4.60	100	1	490-2410-1-ND	.15	1.29	10.15	—	—	—	NCP15XC470J03RC
68	3100	±5	3.80	100	1	490-2411-1-ND	.15	1.29	10.15	—	—	—	NCP15XC680J03RC
150	3250	±5	2.50	100	1	490-2413-1-ND	.11	.96	7.56	490-2413-2-ND	10,000	39.19/M	NCP15XF151J03RC
220	3500	±5	2.10	100	1	490-2415-1-ND	.11	.96	7.56	490-2415-2-ND	10,000	39.19/M	NCP15XM221J03RC
1.5k	3950	±5	0.81	100	1	490-2421-1-ND	.11	.96	7.56	490-2421-2-ND	10,000	39.19/M	NCP15XW152J03RC
2.2k	3950	±5	0.67	100	1	490-2423-1-ND	.11	.96	7.56	490-2423-2-ND	10,000	39.19/M	NCP15XW222J03RC
4.7k	3500	±5	0.46	100	1	490-2417-1-ND	.09	.75	5.86	490-2417-2-ND	10,000	30.00/M	NCP15XM472J03RC
6.8k	3950	±5	0.38	100	1	490-2426-1-ND	.15	1.29	10.15	—	—	—	NCP15XW682J03RC
10k	3380	±1	—	100	1	490-4801-1-ND	.10	.89	7.01	490-4801-2-ND	10,000	36.00/M	NCP15XH103F03RC
10k	3380	±5	0.31	100	1	490-2414-1-ND	.09	.75	5.86	490-2414-2-ND	10,000	30.00/M	NCP15XH103J03RC
15k	3950	±5	0.25	100	1	490-2422-1-ND	.11	.96	7.56	490-2422-2-ND	10,000	39.19/M	NCP15XW153J03RC
22k	3950	±5	0.21	100	1	490-2424-1-ND	.11	.96	7.56	490-2424-2-ND	10,000	39.19/M	NCP15XW223J03RC
33k	4050	±5	0.17	100	1	490-2401-1-ND	.15	1.29	10.15	—	—	—	NCP15WB333J03RC
47k	4050	±1	—	100	1	490-4802-1-ND	.10	.89	7.01	490-4802-2-ND	10,000	36.00/M	NCP15WB473F03RC
47k	4050	±5	0.14	100	1	490-2402-1-ND	.09	.75	5.86	490-2402-2-ND	10,000	30.00/M	NCP15WB473J03RC
68k	4150	±5	0.12	100	1	490-2403-1-ND	.11	.96	7.56	490-2403-2-ND	10,000	39.19/M	NCP15WD683J03RC
100k	4250	±1	—	100	1	490-4803-1-ND	.10	.89	7.01	490-4803-2-ND	10,000	36.00/M	NCP15WF104F03RC
100k	4250	±5	0.10	100	1	490-2404-1-ND	.09	.75	5.86	490-2404-2-ND	10,000	30.00/M	NCP15WF104J03RC
150k	4500	±5	0.08	100	1	490-2405-1-ND	.11	.96	7.56	490-2405-2-ND	10,000	39.19/M	NCP15WM154J03RC
220k	4500	±5	0.06	100	1	490-2406-1-ND	.11	.96	7.56	490-2406-2-ND	10,000	39.19/M	NCP15WM224J03RC
470k	4500	±5	0.04	100	1	490-2407-1-ND	.11	.96	7.56	490-2407-2-ND	10,000	39.19/M	NCP15WM474J03RC
0603 Series													
100	3250	±5	3.10	100	1	490-2434-1-ND	.17	1.47	11.52	—	—	—	NCP18XF101J03RB
150	3250	±5	2.50	100	1	490-2435-1-ND	.17	1.47	11.52	490-2435-2-ND	4,000	62.85/M	NCP18XF151J03RB
220	3500	±5	2.10	100	1	490-2437-1-ND	.17	1.47	11.52	490-2437-2-ND	4,000	62.85/M	NCP18XM221J03RB
330	3500	±5	1.70	100	1	490-2438-1-ND	.17	1.47	11.52	490-2438-2-ND	4,000	62.85/M	NCP18XM331J03RB
470	3650	±5	1.40	100	1	490-2441-1-ND	.17	1.47	11.52	490-2441-2-ND	4,000	62.85/M	NCP18XQ471J03RB
1.0k	3650	±5	1.00	100	1	490-2440-1-ND	.17	1.47	11.52	490-2440-2-ND	4,000	62.85/M	NCP18XQ102J03RB
1.5k	3950	±5	0.81	100	1	490-2443-1-ND	.17	1.47	11.52	490-2443-2-ND	4,000	62.85/M	NCP18XW152J03RB
2.2k	3950	±5	0.67	100	1	490-2445-1-ND	.17	1.47	11.52	490-2445-2-ND	4,000	62.85/M	NCP18XW222J03RB
3.3k	3950	±5	0.55	100	1	490-2447-1-ND	.17	1.47	11.52	490-2447-2-ND	4,000	62.85/M	NCP18XW332J03RB
4.7k	3500	±5	0.46	100	1	490-2439-1-ND	.15	1.31	10.31	490-2439-2-ND	4,000	56.00/M	NCP18XM472J03RB
6.8k	3950	±5	0.38	100	1	490-2448-1-ND	.17	1.47	11.52	490-2448-2-ND	4,000	62.85/M	NCP18XW682J03RB
10k	3380	±1	—	100	1	490-4800-1-ND	.17	1.51	11.88	490-4800-2-ND	4,000	65.00/M	NCP18XH103F03RB
10k	3380	±5	0.31	100	1	490-2436-1-ND	.15	1.31	10.31	490-2436-2-ND	4,000	56.00/M	NCP18XH103J03RB
15k	3950	±5	0.25	100	1	490-2444-1-ND	.17	1.47	11.52	490-2444-2-ND	4,000	62.85/M	NCP18XW153J03RB
22k	3950	±5	0.21	100	1	490-2446-1-ND	.17	1.47	11.52	490-2446-2-ND	4,000	62.85/M	NCP18XW223J03RB
33k	4050	±5	0.17	100	1	490-2427-1-ND	.17	1.47	11.52	490-2427-2-ND	4,000	62.85/M	NCP18WB333J03RB
47k	4050	±5	0.14	100	1	490-2428-1-ND	.15	1.31	10.31	490-2428-2-ND	4,000	56.00/M	NCP18WB473J03RB
68k	4150	±5	0.12	100	1	490-2429-1-ND	.17	1.47	11.52	490-2429-2-ND	4,000	62.85/M	NCP18WD683J03RB
100k	4250	±5	0.10	100	1	490-2430-1-ND	.15	1.31	10.31	490-2430-2-ND	4,000	56.00/M	NCP18WF104J03RB
220k	4500	±5	0.06	100	1	490-2432-1-ND	.17	1.47	11.52	490-2432-2-ND	4,000	62.85/M	NCP18WM224J03RB
470k	4500	±5	0.04	100	1	490-2433-1-ND	.17	1.47	11.52	490-2433-2-ND	4,000	62.85/M	NCP18WM474J03RB
0805 Series													
220	3500	±5	3.00	200	2	490-2452-1-ND	.21	1.84	14.49	490-2452-2-ND	4,000	79.00/M	NCP21XM221J03RA
470	3650	±5	2.00	200	2	490-2455-1-ND	.21	1.84	14.49	490-2455-2-ND	4,000	79.00/M	NCP21XQ471J03RA
1.0k	3650	±5	1.40	200	2	490-2454-1-ND	.21	1.84	14.49	490-2454-2-ND	4,000	79.00/M	NCP21XQ102J03RA
2.2k	3950	±5	0.90	200	2	490-2458-1-ND	.21	1.84	14.49	490-2458-2-ND	4,000	79.00/M	NCP21XW222J03RA
4.7k	3500	±5	0.65	200	2	490-2453-1-ND	.21	1.84	14.49	490-2453-2-ND	4,000	79.00/M	NCP21XM472J03RA
10k	3900	±5	0.44	200	2	490-2456-1-ND	.21	1.84	14.49	490-2456-2-ND	4,000	79.00/M	NCP21XV103J03RA
15k	3950	±5	0.36	200	2	490-2457-1-ND	.21	1.84	14.49	490-2457-2-ND	4,000	79.00/M	NCP21XW153J03RA
22k	3950	±5	0.30	200	2	490-2459-1-ND	.21	1.84	14.49	490-2459-2-ND	4,000	79.00/M	NCP21XW223J03RA
33k	4050	±5	0.24	200	2	490-2449-1-ND	.21	1.84	14.49	490-2449-2-ND	4,000	79.00/M	NCP21WB333J03RA
47k	4050	±5	0.20	200	2	490-2450-1-ND	.21	1.84	14.49	490-2450-2-ND	4,000	79.00/M	NCP21WB473J03RA
100k	4250	±5	0.14	200	2	490-2451-1-ND	.21	1.84	14.49	490-2451-2-ND	4,000	79.00/M	NCP21WF104J03RA

N

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NTC Thermistors

CWF Precision NTC Thermistor Probes **Features:** • Small size and fast response, temperature coefficient of resistance can reach- (2% ~ 5%/°C) • Long-term stability and reliability (yearly drift of ≤1%) • Excellent tolerance and interchangeability (the accuracy of R and B value can be ±1%) • Double layer packaging provides excellent insulation and high strength and impact resistance • Time Constant of ≤15S ~ 70S

MF11 NTC Thermistor **Features:** • Broad range of resistance • Standard tolerances: ±5% and ±10% • Measuring power ≤0.5mW • Dissipation Constant ≥6.0mW/°C • Time Constant of ≤30 seconds • Rated Power: 0.5W • Good level of tolerance and interchangeability

MF51 Precision Glass Encapsulated NTC Thermistor **Benefits:** • High precision • Fast response • Reliable stability • No aging effect • Improved moisture resistance

MF52 NTC Thermistor **Features:** • Small Size and fast response • Long-term Stability and Reliability • Excellent tolerance and interchangeability • Time Constant of ≤7 seconds in still air • UL Listed E240991

MF58 Glass Shell Precision NTC Thermistors **Features:** • Usable in high temperature and high moisture environments • Suitable for automatic insertion on thru-hole PCBs • Rapid response • High Sensitivity • Dissipation factor: ≥2mW/°C (in still air) • Operating temperature range: -55°C ~ 200°C • Rated power: ≤50mW

MF72 Power NTC Thermistors **Features:** • Small size and fast response • High power handling capability • Fast response to surge current • High material constant (B value) • Low residual resistance • Long-term Stability and Reliability • UL 1434 Listed E241319

Dimensions in mm

CWF Series

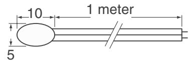

MF51 Series

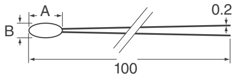

Cantherm Series	Dimensions (mm) A	Dimensions (mm) B
MF51B	3.0	1.5
MF51E	4.0	1.6

MF52 Series

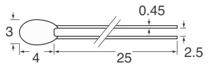

MF52 Series (G410 Package)

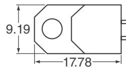

MF11 and MF72 Series

Cantherm Part No.	Dimensions (mm) D	d	F1
MF11-xxxxxx	6.5	0.45	2.5
MF72-xxxD5	6.5	0.6/0.45	5/2.5
MF72-xxxD7	8.5	0.6	5
MF72-xxxD9	10.5	0.8/0.6	7.5/5
MF72-xxxD11	12.5	0.8/0.6	7.5/5
MF72-xxxD13	14.5	0.8	7.5
MF72-xxxD15	16.5	0.8	10/7.5
MF72-xxxD20	21.5	1.0	10/7.5
MF72-xxxD25	26.5	1.0	10

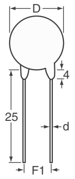

MF58 Series

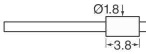

Resistance (Ω)	Tolerance (±)	Digi-Key Part No.	Pricing			Cantherm Part No.
			1	10	50	
CWF Series						
10K	1%	317-1310-ND	5.06	44.31	158.25	CWF1B103F3380
100K	1%	317-1311-ND	5.06	44.31	158.25	CWF1B104F3950
10K	2%	317-1312-ND	4.43	38.78	138.50	CWF1B103G3380
100K	2%	317-1313-ND	4.43	38.78	138.50	CWF1B104G3950
10K	3%	317-1314-ND	3.80	33.25	118.75	CWF1B103H3380
100K	3%	317-1315-ND	3.80	33.25	118.75	CWF1B104H3950
100K	5%	317-1317-ND	2.54	22.19	79.25	CWF1B104J3950
10K	2%	317-1382-ND	6.62	57.96	207.00	CWF3AA103G3380
100K	2%	317-1383-ND	6.62	57.96	207.00	CWF3AA104G4150
50K	2%	317-1384-ND	6.62	57.96	207.00	CWF3AA503G3950
10K	2%	317-1385-ND	6.62	57.96	207.00	CWF4B103G3380
MF11 Series						
20	5%	317-1267-ND	.63	5.53	19.75	MF11-0002005
100	5%	317-1270-ND	.63	5.53	19.75	MF11-0010005
250	5%	317-1272-ND	.63	5.53	19.75	MF11-0025005
300	5%	317-1273-ND	.63	5.53	19.75	MF11-0030005
350	5%	317-1274-ND	.63	5.53	19.75	MF11-0035005
600	5%	317-1275-ND	.63	5.53	19.75	MF11-0060005
800	5%	317-1276-ND	.63	5.53	19.75	MF11-0080005
1000	5%	317-1277-ND	.63	5.53	19.75	MF11-0100005
2000	5%	317-1279-ND	.63	5.53	19.75	MF11-0200005
3300	5%	317-1280-ND	.63	5.53	19.75	MF11-0330005
4600	5%	317-1281-ND	.63	5.53	19.75	MF11-0460005
33K	5%	317-1285-ND	.63	5.53	19.75	MF11-3300005
100	10%	317-1289-ND	.32	2.77	9.88	MF11-0010010
170	10%	317-1290-ND	.32	2.77	9.88	MF11-0017010
250	10%	317-1291-ND	.32	2.77	9.88	MF11-0025010
300	10%	317-1292-ND	.32	2.77	9.88	MF11-0030010
350	10%	317-1293-ND	.32	2.77	9.88	MF11-0035010
600	10%	317-1294-ND	.32	2.77	9.88	MF11-0060010
1400	10%	317-1297-ND	.32	2.77	9.88	MF11-0140010
2000	10%	317-1298-ND	.32	2.77	9.88	MF11-0200010
3300	10%	317-1299-ND	.32	2.77	9.88	MF11-0330010
4600	10%	317-1300-ND	.32	2.77	9.88	MF11-0460010
33000	10%	317-1304-ND	.32	2.77	9.88	MF11-3300010
MF51B Series						
10K	1%	317-1370-ND	4.42	38.64	138.00	MF51B103F3380
100K	1%	317-1371-ND	4.42	38.64	138.00	MF51B104F3950
50K	1%	317-1372-ND	4.42	38.64	138.00	MF51B503F3950
MF51E Series						
10K	0.5%	317-1305-ND	3.60	31.50	112.50	MF51E103E3950
10K	1%	317-1306-ND	1.98	17.29	61.75	MF51E103F3950
2.25K	1%	317-1488-ND	2.38	20.79	74.25	MF51E2.252F3950C
10K	1%	317-1309-ND	2.38	20.79	74.25	MF51E103F3950C
22.5K	1%	317-1308-ND	2.38	20.79	74.25	MF51E2252F3950C
10K	2%	317-1307-ND	1.98	17.29	61.75	MF51E103G3950
MF52A Series						
10K	1%	317-1355-ND	1.58	13.83	49.38	MF52A1103F3380
100K	1%	317-1356-ND	1.58	13.83	49.38	MF52A1104F4150
10K	2%	317-1357-ND	.95	8.33	29.75	MF52A1103G3380
100K	2%	317-1358-ND	.95	8.33	29.75	MF52A1104G4150
4.7K	3%	317-1360-ND	.60	5.25	18.75	MF52A1472H3470
100K	3%	317-1362-ND	.60	5.25	18.75	MF52A1104H4150
1.5K	5%	317-1252-ND	.38	3.33	11.88	MF52A152J3470
2K	5%	317-1253-ND	.38	3.33	11.88	MF52A202J3470
2.2K	5%	317-1254-ND	.38	3.33	11.88	MF52A2222J3470
4.7K	5%	317-1256-ND	.38	3.33	11.88	MF52A472J3470
6.8K	5%	317-1257-ND	.38	3.33	11.88	MF52A682J3470
10K	5%	317-1258-ND	.38	3.33	11.88	MF52A2103J3470
15K	5%	317-1259-ND	.38	3.33	11.88	MF52A153J3470
22K	5%	317-1260-ND	.38	3.33	11.88	MF52A2223J3470
33K	5%	317-1363-ND	.38	3.33	11.88	MF52A2333J3950
47K	5%	317-1364-ND	.38	3.33	11.88	MF52A1473J3950
68K	5%	317-1263-ND	.38	3.33	11.88	MF52A683J3950
100K	5%	317-1264-ND	.38	3.33	11.88	MF52A1104J3950
220K	5%	317-1265-ND	.38	3.33	11.88	MF52A1224J4150
MF52C Series						
10K	1%	317-1376-ND	1.97	17.22	61.50	MF52C1103F3380
100K	1%	317-1377-ND	1.97	17.22	61.50	MF52C1104F4150
50K	1%	317-1378-ND	1.97	17.22	61.50	MF52C1503F3950
10K	1%	317-1406-ND	6.62	57.96	207.00	MF52C103F3380-G410
100K	1%	317-1407-ND	6.62	57.96	207.00	MF52C104F4150-G410
50K	1%	317-1408-ND	6.62	57.96	207.00	MF52C503F3950-G410
MF52F Series						
10K	1%	317-1373-ND	1.92	16.80	60.00	MF52F103F3380
100K	1%	317-1374-ND	1.92	16.80	60.00	MF52F104F4150
50K	1%	317-1375-ND	1.92	16.80	60.00	MF52F503F3950
MF58 Series						
10K	1%	317-1379-ND	1.58	13.86	49.50	MF58103F3380
100K	1%	317-1380-ND	1.58	13.86	49.50	MF58104F3950
50K	1%	317-1381-ND	1.58	13.86	49.50	MF58503F3950
MF72 Series						
5	20%	317-1144-ND	.43	3.78	13.50	MF72-005D5
10	20%	317-1145-ND	.36	3.15	11.25	MF72-010D5
60	20%	317-1146-ND	.43	3.78	13.50	MF72-060D5
200	20%	317-1147-ND	.43	3.78	13.50	MF72-200D5
5	20%	317-1148-ND	.43	3.78	13.50	MF72-005D7
8	20%	317-1149-ND	.43	3.78	13.50	MF72-008D7
10	20%	317-1150-ND	.36	3.15	11.25	MF72-010D7
12	20%	317-1151-ND	.43	3.78	13.50	MF72-012D7
16	20%	317-1152-ND	.43	3.78	13.50	MF72-016D7
22	20%	317-1153-ND	.43	3.78	13.50	MF72-022D7
33	20%	317-1154-ND	.43	3.78	13.50	MF72-033D7
200	20%	317-1155-ND	.43	3.78	13.50	MF72-200D7
3	20%	317-1156-ND	.48	4.17	14.88	MF72-003D9
4	20%	317-1157-ND	.48	4.17	14.88	MF72-004D9
5	20%	317-1158-ND	.48	4.17	14.88	MF72-005D9
6	20%	317-1159-ND	.48	4.17	14.88	MF72-006D9
8	20%	317-1160-ND	.48	4.17	14.88	MF72-008D9
10	20%	317-1161-ND	.40	3.47	12.38	MF72-010D9
12	20%	317-1162-ND	.48	4.17	14.88	MF72-012D9
16	20%	317-1163-ND	.48	4.17	14.88	MF72-016D9
20	20%	317-1164-ND	.48	4.17	14.88	MF72-020D9
22	20%	317-1165-ND	.48	4.17	14.88	MF72-022D9
30	20%	317-1166-ND	.48	4.17	14.88	MF72-030D9
33	20%	317-1167-ND	.48	4.17	14.88	MF72-033D9
50	20%	317-1168-ND	.48	4.17	14.88	MF72-050D9
60	20%	317-1169-ND	.48	4.17	14.88	MF72-060D9
80	20%	317-1170-ND	.48	4.17	14.88	MF72-080D9
120	20%	317-1171-ND	.48	4.17	14.88	MF72-120D9
200	20%	317-1172-ND	.48	4.17	14.88	MF72-200D9
400	20%	317-1173-ND	.48	4.17	14.88	MF72-400D9
2.5	20%	317-1174-ND	.55	4.83	17.25	MF72-002.5D11
3	20%	317-1175-ND	.55	4.83	17.25	MF72-003D11
4	20%	317-1176-ND	.55	4.83	17.25	MF72-004D11
5	20%	317-1177-ND	.55	4.83	17.25	MF72-005D11
6	20%	317-1178-ND	.55	4.83	17.25	MF72-006D11
8	20%	317-1179-ND	.55	4.83	17.25	MF72-008D11
10	20%	317-1180-ND	.55	4.83	17.25	MF72-010D11
12	20%	317-1181-ND	.46	4.03	14.40	MF72-012D11
16	20%	317-1182-ND	.55	4.83	17.25	MF72-016D11
20	20%	317-1183-ND	.55	4.83	17.25	MF72-020D11
22	20%	317-1184-ND	.55	4.83	17.25	MF72-022D11
30	20%	317-1185-ND	.55	4.83	17.25	MF72-030D11
33	20%	317-1186-ND	.55	4.83	17.25	MF72-033D11
50	20%	317-1187-ND	.55	4.83	17.25	MF72-050D11
60	20%	317-1188-ND	.55	4.83	17.25	MF72-060D11
80	20%	317-1189-ND	.55	4.83	17.25	MF72-080D11
1.3	20%	317-1190-ND	.99	8.65	30.88	MF72-001.3D13
1.5	20%	317-1191-ND	.99	8.65	30.88	MF72-001.5D13
2.5	20%	317-1192-ND	.99	8.65	30.88	MF72-002.5D13
3	20%	317-1193-ND	.99	8.65	30.88	MF72-003D13
4	20%	317-1194-ND	.99	8.65	30.88	MF72-004D13
5	20%	317-1195-ND	.99	8.65	30.88	MF72-005D13
6	20%	317-1196-ND	.99	8.65	30.88	MF72-006D13
7	20%	317-1197-ND	.99	8.65	30.88	MF72-007D13
8	20%	317-1198-ND	.99	8.65	30.88	MF72-008D13
10	20%	317-1199-ND	.99	8.65	30.88	MF72-010D13
12	20%	317-1200-ND	.82	7.21	25.75	MF72-012D13
15	20%	317-1201-ND	.99	8.65	30.88	MF72-015D13
16	20%	317-1202-ND	.99	8.65	30.88	MF72-016D13
20	20%	317-1203-ND	.99	8.65	30.88	MF72-020D13
30	20%	317-1204-ND	.99	8.65	30.88	MF72-030D13
47	20%	317-1205-ND	.99	8.65	30.88	MF72-047D13
120	20%	317-1206-ND	.99	8.65	30.88	MF72-120D13
1.3	20%	317-1207-ND	1.42	12.46	44.50	MF72-001.3D15
1.5	20%	317-1208-ND	1.42	12.46	44.50	MF72-001.5D15
3	20%	317-1209-ND	1.42	12.46	44.50	MF72-003D15
5	20%	317-1210-ND	1.42	12.46	44.50	MF72-005D15
6	20%	317-1211-ND	1.42	12.46	44.50	MF72-006D15
7	20%	317-1212-ND	1.42	12.46	44.50	MF72-007D15
8	20%	317-1213-ND	1.42	12.46	44.50	MF72-008D15
10	20%	317-1214-ND	1.42	12.46	44.50	MF72-010D15
12	20%	317-1215-ND	1.19	10.40	37.13	MF72-012D15
15	20%	317-1216-ND	1.42	12.46	44.50	MF72-015D15
16	20%	317-1217-ND	1.42	12.46	44.50	MF72-016D15
20	20%	317-1218-ND	1.42	12.46	44.50	MF72-020D15
30	20%	317-1219-ND	1.42	12.46	44.50	MF72-030D15
47	20%	317-1220-ND	1.42	12.46	44.50	MF72-047D15
120	20%	317-1221-ND	1.42	12.46	44.50	MF72-120D15
0.7	20%	317-1222-ND	4.35	38.08	136.00	MF72-000.7D20
1.3	20%	317-1223-ND	4.35	38.08	136.00	MF72-001.3D20
3	20%	317-1224-ND	4.35	38.08	136.00	MF72-003D20
5	20%	317-1225-ND	4.35	38.08	136.00	MF72-005D20
6	20%	317-1226-ND	4.35	38.08	136.00	MF72-006D20
8	20%	317-1228-ND	4.35	38.08	136.00	MF72-008D20
10	20%	317-1229-ND	3.63	31.75	113.38	MF72-010D20
12	20%	317-1230-ND	4.35	38.08	136.00	MF72-012D20
16	20%	317-1231-ND	4.35	38.08	136.00	MF72-016D20
0.7	20%	317-1232-ND	7.10	62.16	222.00	MF72-000.7D25
1.5	20%	317-1233-ND	7.10	62.16	222.00	MF72-001.5D25
3	20%	317-1234-ND	7.10	62.16	222.00	MF72-003D25
5	20%	317-1235-ND	7.10	62.16	222.00	MF72-005D25
8	20%	317-1236-ND	7.10	62.16	222.00	MF72-008D25
10	20%	317-1237-ND	5.92	51.80	185.00	MF72-010D25
12	20%	317-1238-ND	7.10	62.16	222.00	MF72-012D25
16	20%	317-1239-ND	7.10	62.16	222.00	MF72-016D25

Chip NTC Thermistors — CMF Series

Resistance (Ω)	Tolerance (±)0	Digi-Key Part No	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Cantherm Part No.
			1	10	50		Qty.	Pricing	
0402									
10K	5%	317-1470-1-ND	.19	1.70	7.01	317-1470-2-ND	10,000	51.00/M	CMFX3435103JNT
47K	5%	317-1471-1-ND	.19	1.70	7.01	317-1471-2-ND	10,000	51.00/M	CMFX3950473JNT
100K	5%	317-1472-1-ND	.19	1.70	7.01	317-1472-2-ND	10,000	51.00/M	CMFX4050104JNT
0603									
10K	5%	317-1473-1-ND	.22	1.92	7.90	317-1473-2-ND	4,000	62.27/M	CMFA3970103JNT
22K	5%	317-1474-1-ND	.22	1.92	7.90	317-1474-2-ND	4,000	62.27/M	CMFA3900223JNT
47K	5%	317-1475-1-ND	.22	1.92	7.90	317-1475-2-ND	4,000	62.27/M	CMFA3950473JNT
68K	5%	317-1476-1-ND	.22	1.92	7.90	317-1476-2-ND	4,000	62.27/M	CMFA3950683JNT
100K	5%	317-1477-1-ND	.22	1.92	7.90	317-1477-2-ND	4,000	62.27/M	CMFA3950104JNT
220K	5%	317-1478-1-ND	.22	1.92	7.90	317-1478-2-ND	4,000	62.27/M	CMFA3950224JNT
560K	5%	317-1479-1-ND	.22	1.92	7.90	317-1479-2-ND	4,000	62.27/M	CMFA4100564JNT
0805									
2.0K	5%	317-1480-1-ND	.26	2.30	9.49	317-1480-2-ND	4,000	74.75/M	CMFB3200202JNT
4.7K	5%	317-1481-1-ND	.26	2.30	9.49	317-1481-2-ND	4,000	74.75/M	CMFB3435472JNT
10K	5%	317-1482-1-ND	.26	2.30	9.49	317-1482-2-ND	4,000	74.75/M	CMFB3970103JNT
15K	5%	317-1483-1-ND	.26	2.30	9.49	317-1483-2-ND	4,000	74.75/M	CMFB3630153JNT
22K	5%	317-1484-1-ND	.26	2.30	9.49	317-1484-2-ND	4,000	74.75/M	CMFB3900223JNT
33K	5%	317-1485-1-ND	.26	2.30	9.49	317-1485-2-ND	4,000	74.75/M	CMFB4055333JNT
47K	5%	317-1486-1-ND	.26	2.30	9.49	317-1486-2-ND	4,000	74.75/M	CMFB4000473JNT
100K	5%	317-1487-1-ND	.26	2.30	9.49	317-1487-2-ND	4,000	74.75/M	CMFB4000104JNT

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

U.S. SENSOR Thermistors

Precision Thermistor

U.S. Sensor's standard precision interchangeable thermistors are low cost, highly accurate, stable devices designed specifically for temperature sensing and control applications. They are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration.

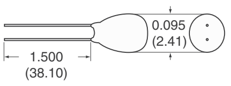

Res. @25°C (Ω)	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
Bare Leads (±0.1°C from 0°C ~ 70°C)						
2252	615-1000-ND	8.90	4.70	3.06	1.71	PS222J2
3000	615-1001-ND	8.90	4.70	3.06	1.71	PS302J2
5000	615-1002-ND	8.90	4.70	3.06	1.71	PS502J2
10000	615-1003-ND	8.90	4.70	3.06	1.71	PS103J2
30000	615-1004-ND	8.90	4.70	3.06	1.71	PS303J2
50000	615-1005-ND	8.90	4.70	3.06	1.71	PS503J2
100000	615-1006-ND	8.90	4.70	3.06	1.71	PS104J2
Bare Leads (±0.2°C from 0°C ~ 70°C)						
2252	615-1007-ND	7.10	3.76	2.45	1.39	PT222J2
3000	615-1008-ND	7.10	3.76	2.45	1.39	PT302J2
5000	615-1009-ND	7.10	3.76	2.45	1.39	PT502J2
10000	615-1010-ND	7.10	3.76	2.45	1.39	PT103J2
30000	615-1011-ND	7.10	3.76	2.45	1.39	PT303J2

Standard Leaded Epoxy Coated Thermistors

Specifications:

- Thermal Time Constant: 2 seconds maximum in a well stirred oil bath, 15 seconds maximum in still air.
- Dissipation Constant: 3mW/°C

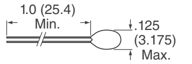

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	±2%	615-1054-ND	8.20	4.50	2.88	1.65	DC103G9G

Surface Mount NTC Thermistors

"MELF" style glass encapsulated surface mount.

Specifications: • Thermal Time Constant: 8 seconds maximum • Dissipation Constant: 2mW/°C • Maximum Operating Temperature: 220°C

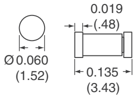

Resistance (Ω) @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	615-1034-ND	12.33	4.92	2.96	1.48	SM103J1KRB
50000	615-1035-ND	12.33	4.92	2.96	1.48	SM503J1KRA
100000	615-1036-ND	12.33	4.92	2.96	1.48	SM104J1KRC

Power Thermistors

U.S. Sensor's inrush current limiting power thermistors are specially formulated and processed NTC thermistors suitable for suppressing high inrush currents in switching power supplies and other applications where the high initial starting currents are undesirable.

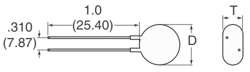

Res. (Ω) @ 25°C	Dimensions - Inch (mm) D	T	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
1.0	0.900 (22.86)	0.300 (7.62)	615-1046-ND	10.78	6.34	3.70	2.25	ST1R020BRA
1.0	1.250 (31.75)	0.250 (6.35)	615-1047-ND	13.69	8.06	4.70	2.87	ST1R030BRA
2.0	0.900 (22.86)	0.350 (8.89)	615-1048-ND	10.81	6.37	3.72	2.26	ST2R018BRA
2.5	0.900 (22.86)	0.300 (7.62)	615-1049-ND	10.81	6.37	3.72	2.26	ST2R515BRA
5.0	0.600 (15.24)	0.250 (6.35)	615-1053-ND	2.70	2.43	2.03	1.77	ST5R007BRB
10.0	0.450 (11.43)	0.300 (7.62)	615-1051-ND	2.25	2.09	1.70	1.53	ST10003BRC
10.0	0.600 (15.24)	0.350 (8.89)	615-1052-ND	2.25	2.09	1.70	1.53	ST10006BRD
10.0	1.250 (31.75)	0.300 (7.62)	615-1050-ND	13.37	7.86	4.59	2.79	ST10010BRC

Ring Lug Thermistors

Specifications:

- Ring tongue mounting hole diameter: 0.145" nominal
- Ring tongue mounting hole stud size: #6 • UL Recognized File Number E232830

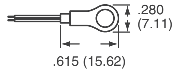

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	±2%	615-1060-ND	39.81	26.28	18.40	10.70	USUR1000-103G
10000	±5%	615-1061-ND	30.19	19.90	14.60	8.50	USUR1000-103J
100000	±2%	615-1062-ND	39.81	26.28	18.40	10.70	USUR1000-104G
100000	±5%	615-1063-ND	30.19	19.90	14.60	8.50	USUR1000-104J

Glass Encapsulated Thermistors

Specifications: • DO-35 package • Thermal Time Constant: (Fig. 1) 5 seconds (still air); 0.5 seconds (stirred liquid) • Dissipation Constant: 2mW/°C (still air) • Maximum Power Rating: (Fig. 2) 20mW

Fig. 1

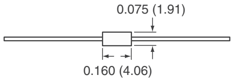

Fig. 2

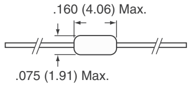

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
Fig. 1 - Standard							
2500	±5%	615-1014-ND	3.30	2.89	1.73	.87	252FG1JRA
5000	±5%	615-1015-ND	3.30	2.89	1.73	.87	502FG1JRA
10000	±5%	615-1016-ND	.80	.73	.68	.62	103JG1JRA
20000	±5%	615-1017-ND	.80	.73	.68	.62	203JG1JRA
30000	±5%	615-1018-ND	.80	.73	.68	.62	303JG1JRA
50000	±5%	615-1019-ND	.80	.73	.68	.62	503JG1JRA
100000	±5%	615-1020-ND	.80	.73	.68	.62	104JG1JRA
250000	±5%	615-1021-ND	.80	.73	.68	.62	254JG1JRA
10000	±1%	615-1024-ND	10.45	4.18	2.50	1.25	103JG1FRA
20000	±1%	615-1025-ND	10.45	4.18	2.50	1.25	203JG1F
30000	±1%	615-1026-ND	10.45	4.18	2.50	1.25	303JG1FRA
50000	±1%	615-1027-ND	10.45	4.18	2.50	1.25	503JG1FRA
100000	±1%	615-1028-ND	10.45	4.18	2.50	1.25	104JG1FRA
Fig. 1 - Interchangeable							
10000	±0.5%	615-1029-ND	15.30	6.12	3.67	1.84	103JL1A
25000	±0.5%	615-1031-ND	19.89	7.96	4.77	2.39	253JL1A
50000	±0.5%	615-1032-ND	19.89	7.96	4.77	2.39	503JL1A
100000	±0.5%	615-1033-ND	19.89	6.12	3.67	1.84	104JL1A
Fig. 2 - UL Recognized							
10000	±2%	615-1056-ND	7.32	4.10	2.31	1.56	USUG1000-103GRB
10000	±5%	615-1057-ND	2.73	1.78	1.14	.92	USUG1000-103JRB
100000	±2%	615-1058-ND	7.32	4.10	2.31	1.56	USUG1000-104GRB
100000	±5%	615-1059-ND	2.73	1.78	1.14	.92	USUG1000-104JRB

Platinum RTDs

Specifications:
• Thermal time constant: 15 seconds maximum (moving air) **• Dissipation constant:** 2mW/°C (moving air) **• Maximum applied current:** 1mA

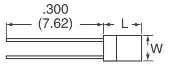

Res. (Ω) @ 0°C	Dimensions - Inch (mm) W	L	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
100	0.067 (1.70)	0.095 (2.41)	615-1037-ND	18.50	13.69	11.10	4.07	PPG101A1RD
100	0.067 (1.70)	0.095 (2.41)	615-1038-ND	15.35	11.36	9.21	3.37	PPG101B1RD
100	0.067 (1.70)	0.095 (2.41)	615-1039-ND	13.82	10.23	8.29	3.07	PPG101C1RD
500	0.079 (2.01)	0.118 (3.00)	615-1040-ND	18.50	13.69	11.10	4.07	PPG501A1RD
500	0.079 (2.01)	0.118 (3.00)	615-1041-ND	15.35	11.36	9.21	3.37	PPG501B1RD
500	0.079 (2.01)	0.118 (3.00)	615-1042-ND	13.82	10.23	8.29	3.07	PPG501C1RD
1000	0.079 (2.01)	0.118 (3.00)	615-1043-ND	18.50	13.69	11.10	4.07	PPG102A1RD
1000	0.079 (2.01)	0.118 (3.00)	615-1044-ND	15.35	11.36	9.21	3.37	PPG102B1RD
1000	0.079 (2.01)	0.118 (3.00)	615-1045-ND	13.82	10.23	8.29	3.07	PPG102C1RD

Laboratory Grade Temperature Probes

Laboratory Grade NTC Thermistor Temperature Standards are manufactured with ultra high stability thermistor elements. **Features**: • NIST traceability • High accuracy ±0.01°C • Durable

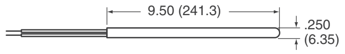

Nominal Resistance Omega @ 25°C	Temperature Range (°C)	Digi-Key Part No.	Price Each	U.S. Sensor Part No.
10000	-20 ~ 70	615-1066-ND	500.00	USP3021RA

Thermistor Probes

Fig. 1

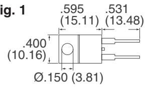

Fig. 2

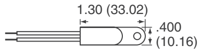

Fig. 3

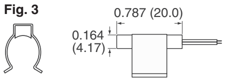

Fig.	Type	Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
1	TO-220	10000	±10%	615-1055-ND	5.30	2.85	1.79	.98	TO103J2KRA
2	Probe	10000	±1%	615-1064-ND	26.94	16.20	10.53	5.16	USP7765
3	Pipe Clamp	10000	±1%	615-1065-ND	37.20	18.79	11.43	5.51	USP7766RA

AMETHERM NTC Thermistors

Circuit Protection Thermistors

Ametherm's NT Series Thermistors are rugged and reliable over a wide temperature range, and are built using high temperature material for long life and durability. The PANE and PANR series Thermistor Probes are designed for use in environments that are not as harsh as those that require a housing.

Lead Specifications: • Wire AWG: 28AWG tinned copper (Cu)
Electrical Specifications: • Resistance @ 25°C: 10000Ω ±10% • Beta: 3950°K ±2% • Curve: L • Dissipation Constant: 3.0mW/°C • Time Constant: 6 seconds • Operating Temperature: -50°C ~ 150°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Ametherm Part No.
1	NT Series NTC Thermistor, 1.5KΩ	570-1089-ND	.70	.43	.33	NT05 15291
	NT Series NTC Thermistor, 500Ω	570-1090-ND	.70	.43	.33	NT03 50169
	NT Series NTC Thermistor, 10Ω	570-1091-ND	.70	.43	.33	NT03 10052
2	PANE NTC Thermistor Bead Probe	570-1065-ND	2.56	2.28	1.23	PANE 103395-410
	PANR NTC Thermistor Ring Probe	570-1066-ND	3.11	1.92	1.45	PANR 103395-408
—	SM Series NTC Thermistor, 0805, 10KΩ	570-1092-1-ND§	.81	.50	.38	SM08 103370
	SM Series NTC Thermistor, 0805, 10KΩ	570-1092-2-ND‡		1540.00/5,000		SM08 103370

§ Cut Tape ‡ Tape and Reel

Fig. 1

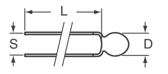

Digi-Key Part No.	Dimensions – mm L	D	S
570-1089-ND	40	5.0	5.0
570-1090-ND	40	2.92	3.0
570-1091-ND	38	3.2	3.55

Fig. 2

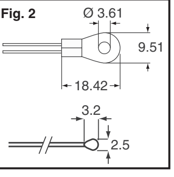

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Beyschlag

PTS Series Platinum SMD Flat Chip Temperature Sensors

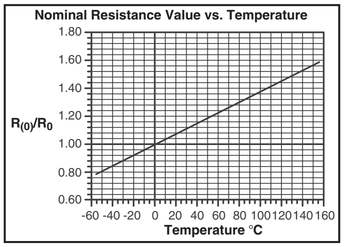

PTS SMD Flat Chip Temperature Sensors are the perfect choice for temperature control of electronics operating under varying environmental conditions. The highly controlled platinum thin film manufacturing process guarantees an outstanding stability of temperature characteristics which ensures reliable operation even under harsh conditions. **Applications:** • Automotive electronics • Aviation electronics • Industrial electronics **Specifications:** • Temperature Coefficient (0°C ~ 100°C): 3850ppm/K • Temperature Range: -55°C ~ 155°C • Insulation Resistance: >10MΩ • Tolerance Class: B

Size Code	Dimensions - mm						Mass (mg)
	H	L	W	WT	T1	T2	
0603	0.45 +0.1/-0.05	1.55 ±0.05	0.85 ±0.1	>75% of W	0.3 +0.15/-0.2	0.3 +0.15/-0.2	1.9
0805	0.45 +0.1/-0.05	2.0 ±0.1	1.25 ±0.15	>75% of W	0.4 +0.1/-0.2	0.4 +0.1/-0.2	4.6
1206	0.55 ±0.1	3.2 +0.1/-0.2	1.6 ±0.15	>75% of W	0.4 +0.1/-0.2	0.4 +0.1/-0.2	9.2

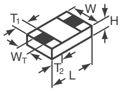

Size Code	Resistance Value R0 at 0°C (Ω)	Thermal Response Time† (s)		Measurement Current Imeas. (DC) (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Part No.
		t0.5	t0.9			1	10	100			
0603	100	≤1.0	≤2.0	0.1 ~ 0.25	PTS0603100CT-ND	2.22	1.94	1.53	PTS0603100TR-ND	831.00	PTS060301B100RP100
0805	100	≤1.5	≤3.0	0.1 ~ 1.0	PTS0805100CT-ND	2.78	2.44	1.92	PTS0805100TR-ND	1042.50	PTS080501B100RP100
	500	≤1.5	≤3.0	0.1 ~ 0.25	PTS0805500CT-ND	2.78	2.44	1.92	PTS0805500TR-ND	1042.50	PTS080501B500RP100
1206	100	≤2.0	≤5.0	0.1 ~ 1.0	PTS1206100CT-ND	3.66	3.21	2.52	PTS1206100TR-ND	1372.50	PTS120601B100RP100
	500	≤2.0	≤5.0	0.1 ~ 0.25	PTS1206500CT-ND	3.66	3.21	2.52	—	—	PTS120601B500RP100
	1000	≤2.0	≤5.0	0.1 ~ 0.25	PTS12061.0KCT-ND	3.66	3.21	2.52	PTS12061.0KTR-ND	1372.50	PTS120601B1K00P100

† Flowing Air (v = 3.0 m/s)

VISHAY. BCcomponents

Leaded NTC Thermistors — Accuracy Line

These thermistors have a negative temperature coefficient. **Fig. 1** – The device consists of a chip with two tinned Ni-leads and is color coded. **Fig. 2** – The device consists of a chip with two tinned solid copper-plated leads, is gray lacquered and color coded, but not insulated. **Applications:** Temperature sensing and control.

Fig.	Dimensions - mm							
	B (max.)	d	H1 (max.)	H2 (max.)	L	M	P	T (max.)
1	3.4	0.4	2.0 ±1.0	—	—	40.0 ±1.5	2.54	3.0
2	3.3 ±0.5	0.6 ±0.06	2.0 ±1.0	6.0	24.0 ±1.5	—	2.54	3.0

Fig.	Resistance @ 25°C (Ω)	Tolerance @ 25°C	B Value/B Tolerance @ B25/85	Color Code				Digi-Key Part No.	Price Each			Vishay Part No.
				1	2	3	4		1	10	50	
1	10k	±1%	3977K ±0.75%	Blue	Blue	—	—	BC2299-ND	1.02	.70	.66	NTCLE203E3103FB0
	100k	±1%	4190K ±1.5%	Brown	Brown	—	—	BC2300-ND	1.07	.73	.69	NTCLE203E3104FB0
	10k	±2%	3977K ±0.75%	Blue	Blue	—	—	BC2298-ND	.61	.42	.40	NTCLE203E3103GB0
2	6.8k	±2%	3977K ±0.75%	Blue	Gray	Red	Red	BC2550-ND ***NEW!***	.65	.45	.42	NTCLE100E3682GB0
	2.7k	±3%	3977K ±0.75%	Red	Violet	Red	Orange	BC2312-ND	.48	.33	.31	NTCLE100E3272HB0
	4.7k	±3%	3977K ±0.75%	Yellow	Violet	Red	Orange	BC2313-ND	.38	.26	.25	NTCLE100E3472HB0
	10k	±3%	3977K ±0.75%	Brown	Black	Orange	Orange	BC2311-ND	.38	.26	.25	NTCLE100E3103HB0
	47k	±3%	4090K ±1.5%	Yellow	Violet	Orange	Orange	BC2314-ND	.38	.26	.25	NTCLE100E3473HB0
	2.2k	±5%	3977K ±0.75%	Red	Red	Red	Gold	BC2304-ND	.32	.22	.21	NTCLE100E3222JB0
	3.3k	±5%	3977K ±0.75%	Orange	Orange	Red	Gold	BC2307-ND	.32	.22	.21	NTCLE100E3332JB0
	6.8k	±5%	3977K ±0.75%	Blue	Gray	Red	Gold	BC2310-ND	.32	.22	.21	NTCLE100E3682JB0
	10k	±5%	3977K ±0.75%	Brown	Black	Orange	Gold	BC2301-ND	.32	.22	.21	NTCLE100E3103JB0
	15k	±5%	3740K ±2%	Brown	Green	Orange	Gold	BC2303-ND	.32	.22	.21	NTCLE100E3153JB0
	22k	±5%	3740K ±2%	Red	Red	Orange	Gold	BC2305-ND	.32	.22	.21	NTCLE100E3223JB0
	33k	±5%	4090K ±1.5%	Orange	Orange	Orange	Gold	BC2308-ND	.32	.22	.21	NTCLE100E3333JB0
	47k	±5%	4090K ±1.5%	Yellow	Violet	Orange	Gold	BC2309-ND	.32	.22	.21	NTCLE100E3473JB0
	68	±5%	3390K ±3%	Blue	Gray	Black	Gold	BC2554-ND ***NEW!***	.32	.22	.21	NTCLE100E3689JB0
	100k	±5%	4190K ±1.5%	Brown	Black	Yellow	Gold	BC2302-ND	.32	.22	.21	NTCLE100E3104JB0
	220k	±5%	4370K ±2.5%	Red	Red	Yellow	Gold	BC2306-ND	.32	.22	.21	NTCLE100E3224JB0

Fig. 1

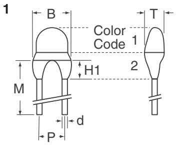

Fig. 2

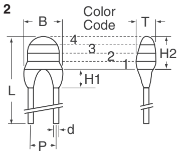

Surface Mount NTC Chip Thermistors

Surface Mount NTC Chip Thermistors have a negative temperature coefficient. The device has no marking. **Terminations:** • 0402 and 0603: NiSn • 0805: Ni **Applications:** • Temperature compensation, sensing and protection in: battery chargers, consumer equipment, and office equipment **Features:** • High accuracy over wide ranges of operating temperature (-40°C ~ 150°C) • Suitable for wave or reflow soldering • High sensitivity • Taped on reel

Size Code	Dimensions - mm				
	L1	W	T	L2 and L3 Minimum	L4 Minimum
0402	1.0 ±0.15	0.5 ±0.15	0.5 ±0.15	0.1	0.3
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.2	0.4
0805	2.0 ±0.2	1.25 ±0.15	0.8 ±0.15	0.2	0.55

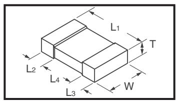

Size Code	Resistance @ 25°C (kΩ)	Tolerance @ 25°C	B Value/ B Tolerance @ B25/85	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Vishay Part No.
					1	10	50	Qty.	Pricing	
0402	4.7	±3%	3595K ±3%	BC2326CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3472HMT
	10	±3%	3490K ±3%	BC2328CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3103HLT
	15	±3%	3600K ±3%	BC2330CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3153HHT
	22	±3%	3590K ±3%	BC2332CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3223HMT
	33	±3%	3670K ±3%	BC2334CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3333HMT
	47	±3%	4075K ±3%	BC2336CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3473HXT
	68	±3%	3910K ±3%	BC2338CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3683HHT
	100	±3%	3950K ±3%	BC2340CT-ND◆	.26	.18	.17	10,000	124.95/M	NTCS0402E3104HHT
	4.7	±5%	3595K ±3%	BC2327CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3472JMT
	10	±5%	3490K ±3%	BC2329CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3103JLT
	15	±5%	3600K ±3%	BC2331CT-ND◆	.21	.15	.14	—	—	NTCS0402E3153JHT
	22	±5%	3590K ±3%	BC2333CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3223JMT
	33	±5%	3670K ±3%	BC2335CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3333JMT
	47	±5%	4075K ±3%	BC2337CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3473JXT
	68	±5%	3910K ±3%	BC2339CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3683JHT
	100	±5%	3950K ±3%	BC2341CT-ND◆	.21	.15	.14	10,000	104.13/M	NTCS0402E3104JHT
0603	10	±3%	3610K ±1%	BC2290CT-ND◆	.36	.25	.23	4,000	177.50/M	NTCS0603E3103HMT
	68	±3%	3985K ±1%	BC1547CT-ND	.39	.27	.25	4,000	193.50/M	NTCS0603E3683JHT
	100	±3%	4100K ±1%	BC2291CT-ND◆	.36	.25	.23	4,000	177.50/M	NTCS0603E3104HXT
	4.7	±5%	3830K ±1%	BC1538CT-ND	.28	.19	.18	—	—	NTCS0603E3472JHT
	10	±5%	3610K ±1%	BC2289CT-ND◆	.28	.19	.18	4,000	137.50/M	NTCS0603E3103JMT
	15	±5%	3600K ±1%	BC1540CT-ND	.37	.25	.24	4,000	220.50/M	NTCS0603E3153JMT
	100	±5%	4100K ±1%	BC1542CT-ND	.37	.25	.24	—	—	NTCS0603E3104JXT
0805	22	±1%	3800K ±1%	BC2571CT-ND◆ ***NEW!***	.81	.56	.52	4,000	405.75/M	NTCS0805E3223FHT
	100	±1%	4100K ±1%	BC2562CT-ND◆ ***NEW!***	.81	.56	.52	4,000	405.75/M	NTCS0805E3104FXT
	15	±2%	3700K ±1%	BC2568CT-ND◆ ***NEW!***	.38	.26	.25	4,000	188.75/M	NTCS0805E3153GMT
	33	±2%	3920K ±1%	BC2572CT-ND◆ ***NEW!***	.38	.26	.25	8,000	184.98/M	NTCS0805E3333GHT
	2.2	±5%	3600K ±1%	BC2294CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3222JMT
	4.7	±5%	3500K ±1%	BC2296CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3472JMT
	10	±5%	3570K ±3%	BC2292CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3103JMT
	10	±5%	3940K ±1%	BC2561CT-ND◆ ***NEW!***	.26	.18	.17	4,000	127.50/M	NTCS0805E3103JHT
	15	±5%	3700K ±1%	BC2293CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3153JMT
	22	±5%	3800K ±1%	BC2295CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3223JHT
	47	±5%	3960K ±1%	BC2297CT-ND◆	.26	.18	.17	4,000	127.50/M	NTCS0805E3473JHT
	330	±5%	3930K ±1%	BC2575CT-ND◆ ***NEW!***	.26	.18	.17	4,000	127.50/M	NTCS0805E3334JHT
	470	±5%	4025K ±1%	BC2581CT-ND◆ ***NEW!***	.26	.18	.17	4,000	127.50/M	NTCS0805E3474JXT

◆ ***RoHS Compliant*** † For Tape and Reel part number change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Dale

NTHS Series Surface Mount NTC Chip Thermistors

Features: • Solderable terminations • Wraparound terminations • Allows design flexibility for use with hybrid circuitry • High density monolithic construction

Size Code	Dimensions – mm		
	L	W	BW
0402	1.016 ±0.102	0.5 ±0.051	0.25 ±0.102
0603	1.6 ±0.2	0.8 ±0.2	0.25 ±0.15
0805	2.0 ±0.2	1.25 ±0.2	0.3 ±0.15
1206	3.2 ±0.2	1.6 ±0.2	0.46 ±0.2

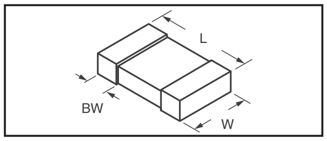

Size Code	Resistance (KΩ)	Resistance Tolerance	R-T Curve	Beta +25°C/+75°C	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Vishay Part No.
						1	10	100			
0402	10	±5%	2	3477	541-1096-1-ND	1.00	.88	.69	541-1096-2-ND	363.00/M	NTHS0402N02N1002JE
	12	±5%	2	3477	541-1097-1-ND	1.00	.88	.69	—	—	NTHS0402N02N1202JE
	47	±5%	5	3890	541-1099-1-ND	1.00	.88	.69	—	—	NTHS0402N05N4702JE
	50	±3%	5	3890	541-1100-1-ND	1.08	.95	.75	—	—	NTHS0402N05N5002HE
	50	±5%	5	3890	541-1101-1-ND	1.00	.88	.69	541-1101-2-ND	363.00/M	NTHS0402N05N5002JE
	68	±5%	1	3964	541-1095-1-ND	1.00	.88	.69	—	—	NTHS0402N01N6802JE
	100	±5%	1	3964	541-1094-1-ND	1.00	.88	.69	541-1094-2-ND	363.00/M	NTHS0402N01N1003JE
	250	±5%	17	4064	541-1102-1-ND	1.00	.88	.69	—	—	NTHS0402N17N2503JE
	350	±5%	4	4247	541-1098-1-ND	1.00	.88	.69	—	—	NTHS0402N04N3503JE
0603	1	±5%	3	3181	541-1109-1-ND	1.00	.88	.69	541-1109-2-ND	363.00/M	NTHS0603N03N1001JE
	1.5	±5%	3	3181	541-1110-1-ND	1.00	.88	.69	—	—	NTHS0603N03N1501JE
	2	±5%	3	3181	541-1111-1-ND	1.00	.88	.69	541-1111-2-ND	363.00/M	NTHS0603N03N2001JE
	10	±5%	2	3477	541-1107-1-ND	1.00	.88	.69	541-1107-2-ND	363.00/M	NTHS0603N02N1002JE
	10	±10%	2	3477	541-1108-1-ND	.96	.84	.66	541-1108-2-ND	348.00/M	NTHS0603N02N1002KE
	15	±5%	10	3500	541-1114-1-ND	1.00	.88	.69	541-1114-2-ND	363.00/M	NTHS0603N10N1502JE
	15.8	±5%	10	3500	541-1115-1-ND	1.00	.88	.69	—	—	NTHS0603N10N1582JE
	20	±5%	10	3500	541-1116-1-ND	1.00	.88	.69	541-1116-2-ND	363.00/M	NTHS0603N10N2002JE
	22	±5%	11	3700	541-1117-1-ND	1.00	.88	.69	—	—	NTHS0603N11N2202JE
	30	±5%	11	3700	541-1118-1-ND	1.00	.88	.69	541-1118-2-ND	363.00/M	NTHS0603N11N3002JE
	68	±5%	1	3964	541-1104-1-ND	1.00	.88	.69	—	—	NTHS0603N01N6802JE
	70	±5%	1	3964	541-1105-1-ND	1.00	.88	.69	—	—	NTHS0603N01N7002JE
	80	±5%	1	3964	541-1106-1-ND	1.00	.88	.69	—	—	NTHS0603N01N8002JE
	100	±5%	1	3964	541-1103-1-ND	1.00	.88	.69	541-1103-2-ND	363.00/M	NTHS0603N01N1003JE
	150	±5%	17	4064	541-1119-1-ND	1.00	.88	.69	541-1119-2-ND	363.00/M	NTHS0603N17N1503JE
	200	±5%	17	4064	541-1120-1-ND	1.00	.88	.69	541-1120-2-ND	363.00/M	NTHS0603N17N2003JE
	330	±5%	4	4247	541-1112-1-ND	1.00	.88	.69	541-1112-2-ND	363.00/M	NTHS0603N04N3303JE
	350	±5%	4	4247	541-1113-1-ND	1.00	.88	.69	541-1113-2-ND	363.00/M	NTHS0603N04N3503JE
0805	1	±5%	3	3181	541-1132-1-ND	1.00	.88	.69	541-1132-2-ND	363.00/M	NTHS0805N03N1001JE
	1.5	±5%	3	3181	541-1133-1-ND	1.00	.88	.69	—	—	NTHS0805N03N1501JE
	2.8	±5%	6	3254	541-1138-1-ND	1.00	.88	.69	—	—	NTHS0805N06N2801JE
	5	±5%	2	3477	541-1128-1-ND	1.00	.88	.69	541-1128-2-ND	363.00/M	NTHS0805N02N5001JE
	6.8	±3%	2	3477	541-1129-1-ND	1.00	.88	.69	541-1129-2-ND	363.00/M	NTHS0805N02N6801HE
	6.8	±5%	2	3477	541-1130-1-ND	1.00	.88	.69	541-1130-2-ND	363.00/M	NTHS0805N02N6801JE
	8	±5%	2	3477	541-1131-1-ND	1.00	.88	.69	—	—	NTHS0805N02N8001JE
	10	±5%	2	3477	541-1127-1-ND	1.00	.88	.69	541-1127-2-ND	363.00/M	NTHS0805N02N1002JE
	22	±5%	11	3700	541-1139-1-ND	1.00	.88	.69	—	—	NTHS0805N11N2202JE
	33	±5%	1	3964	541-1121-1-ND	1.00	.88	.69	541-1121-2-ND	363.00/M	NTHS0805N01N3302JE
	35	±5%	5	3890	541-1136-1-ND	1.00	.88	.69	—	—	NTHS0805N05N3502JE
	47	±5%	1	3964	541-1122-1-ND	1.00	.88	.69	541-1122-2-ND	363.00/M	NTHS0805N01N4702JE
	50	±5%	1	3964	541-1123-1-ND	1.00	.88	.69	541-1123-2-ND	363.00/M	NTHS0805N01N5002JE
	50	±5%	5	3890	541-1137-1-ND	1.00	.88	.69	—	—	NTHS0805N05N5002JE
	50	±10%	1	3964	541-1124-1-ND	.96	.84	.66	—	—	NTHS0805N01N5002KE
	56	±5%	1	3964	541-1125-1-ND	1.00	.88	.69	—	—	NTHS0805N01N5602JE
	68	±5%	1	3964	541-1126-1-ND	1.00	.88	.69	—	—	NTHS0805N01N6802JE
	100	±5%	17	4064	541-1140-1-ND	1.00	.88	.69	541-1140-2-ND	363.00/M	NTHS0805N17N1003JE
	150	±5%	17	4064	541-1141-1-ND	1.00	.88	.69	541-1141-2-ND	363.00/M	NTHS0805N17N1503JE
	200	±5%	17	4064	541-1142-1-ND	1.00	.88	.69	541-1142-2-ND	363.00/M	NTHS0805N17N2003JE
	200	±5%	4	4247	541-1134-1-ND	1.00	.88	.69	—	—	NTHS0805N04N2003JE
	220	±5%	4	4247	541-1135-1-ND	1.00	.88	.69	541-1135-2-ND	363.00/M	NTHS0805N04N2203JE
1206	10	±5%	2	3477	541-1150-1-ND	1.12	.98	.77	541-1150-2-ND	406.00/M	NTHS1206N02N1002JE
	10	±10%	2	3477	541-1151-1-ND	1.08	.95	.75	541-1151-2-ND	392.00/M	NTHS1206N02N1002KE
	15	±5%	10	3500	541-1156-1-ND	1.12	.98	.77	541-1156-2-ND	406.00/M	NTHS1206N10N1502JE
	20	±5%	10	3500	541-1157-1-ND	1.12	.98	.77	541-1157-2-ND	406.00/M	NTHS1206N10N2002JE
	22	±5%	11	3700	541-1158-1-ND	1.12	.98	.77	—	—	NTHS1206N11N2202JE
	30	±5%	5	3890	541-1155-1-ND	1.12	.98	.77	—	—	NTHS1206N05N3002JE
	47	±5%	1	3964	541-1146-1-ND	1.12	.98	.77	541-1146-2-ND	406.00/M	NTHS1206N01N4702JE
	50	±5%	1	3964	541-1147-1-ND	1.12	.98	.77	541-1147-2-ND	406.00/M	NTHS1206N01N5002JE
	68	±5%	1	3964	541-1148-1-ND	1.12	.98	.77	—	—	NTHS1206N01N6802JE
	80	±5%	1	3964	541-1149-1-ND	1.12	.98	.77	—	—	NTHS1206N01N8002JE
	100	±1%	1	3964	541-1143-1-ND	1.28	1.12	.88	541-1143-2-ND	464.00/M	NTHS1206N01N1003FE
	100	±5%	1	3964	541-1144-1-ND	1.12	.98	.77	541-1144-2-ND	406.00/M	NTHS1206N01N1003JE
	100	±5%	17	4064	541-1159-1-ND	1.12	.98	.77	541-1159-2-ND	406.00/M	NTHS1206N17N1003JE
	100	±10%	1	3964	541-1145-1-ND	1.08	.95	.75	541-1145-2-ND	392.00/M	NTHS1206N01N1003KE
	100	±10%	17	4064	541-1160-1-ND	1.08	.95	.75	—	—	NTHS1206N17N1003KE
	150	±5%	17	4064	541-1161-1-ND	1.12	.98	.77	—	—	NTHS1206N17N1503JE
	200	±5%	17	4064	541-1162-1-ND	1.12	.98	.77	541-1162-2-ND	406.00/M	NTHS1206N17N2003JE
	200	±5%	4	4247	541-1152-1-ND	1.12	.98	.77	541-1152-2-ND	406.00/M	NTHS1206N04N2003JE
	220	±5%	17	4064	541-1163-1-ND	1.12	.98	.77	541-1163-2-ND	406.00/M	NTHS1206N17N2203JE
	220	±5%	4	4247	541-1153-1-ND	1.12	.98	.77	—	—	NTHS1206N04N2203JE
	330	±5%	4	4247	541-1154-1-ND	1.12	.98	.77	—	—	NTHS1206N04N3303JE

M, C, T Series Leaded Conformally Coated NTC Thermistors

M, C and T series are conformally coated, leaded thermistors for standard PC board mounting or assembly in probes. The coating is baked-on phenolic for durability and long-term stability. M and C series have tinned solid copper leads. The T series has solid nickel wires with Teflon® insulation to provide isolation when assembled in metal probes or housings. **Features:** • Small size, conformally coated • Wide resistance range • Available in multiple R-T curves **Specifications:** • Dissipation Constant: 2~3mWatts/°C • Thermal Time Constant: 6 ~ 14 seconds

Fig. 1

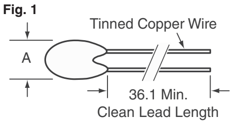

Fig. 2

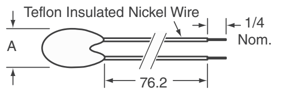

Fig.	Resistance (Ω)	Resistance Tolerance	R-T Curve	Dimension A (mm)	Wire Diameter		Digi-Key Part No.	Price Each			Vishay Part No.
					AWG	mm		1	10	100	
1	50	±5%	2	6.93	28	0.32	541-1209-ND	1.60	1.44	1.14	02C0500JF
	5K	±5%	1	2.4	30	0.254	541-1076-ND	1.60	1.44	1.14	01M5001JF
	10K	±1%	1	2.4	28	0.32	541-1206-ND	1.78	1.60	1.26	01C1002FF
	10K	±1%	9	2.8	30	0.254	541-1080-ND	1.78	1.60	1.26	09M1002FF
	10K	±5%	1	2.4	28	0.32	541-1207-ND	1.60	1.44	1.14	01C1002JF
	10K	±5%	1	2.4	30	0.254	541-1074-ND	1.60	1.44	1.14	01M1002JF
	10K	±5%	9	2.8	30	0.254	541-1081-ND	1.60	1.44	1.14	09M1002JF
	30K	±5%	1	2.4	30	0.254	541-1075-ND	1.60	1.44	1.14	01M3002JF
	33K	±5%	4	2.4	30	0.254	541-1077-ND	1.60	1.44	1.14	04M3302JF
	47K	±5%	4	2.4	30	0.254	541-1078-ND	1.60	1.44	1.14	04M4702JF
	50K	±5%	7	2.8	28	0.32	541-1208-ND	1.78	1.60	1.26	07C5002JF
	150K	±5%	7	2.4	30	0.254	541-1079-ND	1.60	1.44	1.14	07M1503JF
2	10K	±1%	1	2.4	30	0.254	541-1203-ND	3.03	2.72	2.15	01T1002FF
	10K	±5%	1	2.4	30	0.254	541-1204-ND	2.76	2.48	1.96	01T1002JF
	33K	±5%	4	2.4	30	0.254	541-1205-ND	1.60	1.44	1.14	04T3302JF

EPCOS

NTC Thermistors
with Wire Leads

RoHS COMPLIANT

Features:
- Fast response
- High measuring accuracy
- Epoxy resin encapsulation
- PTFE-insulated leads
- UL approval (E69802)

Applications:
- Heating systems
- Industrial electronics
- Automotive electronics

Specifications:
- Climatic category: 55/155/56
- Maximum power: 60mW

Dimensions in mm

Fig. 1
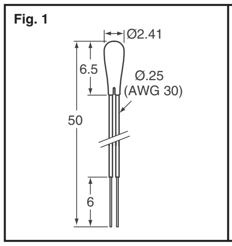

Fig. 2
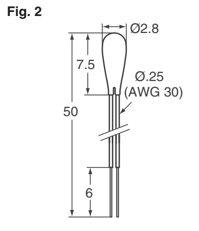

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/100 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	2	±1%	3560	495-2144-ND	2.45	2.15	1.69	B57861S0202F040
	3	±1%	3988	495-2145-ND	2.45	2.15	1.69	B57861S0302F040
	3	±1%	3988	495-2150-ND‡	3.20	2.80	2.20	B57863S0302F040
	5	±1%	3988	495-2147-ND	2.45	2.15	1.69	B57861S0502F040
	10	±1%	3988	495-2142-ND	2.45	2.15	1.69	B57861S0103F040
	10	±1%	3988	495-2149-ND‡	3.20	2.80	2.20	B57863S0103F040
	30	±1%	3964	495-2146-ND	2.45	2.15	1.69	B57861S0303F040
	30	±1%	3964	495-2151-ND‡	3.20	2.80	2.20	B57863S0303F040
	50	±1%	3760	495-2148-ND	2.45	2.15	1.69	B57861S0503F040
	100	±1%	4540	495-2143-ND	2.45	2.15	1.69	B57861S0104F040
2	10	±1%	3988	495-2166-ND	3.70	3.24	2.55	B57862S0103F040

‡ Uni-Curve Sensor

NTC Thermistors
for Temperature Measurement
Insulated

RoHS COMPLIANT

Dimensions in mm

Features:
- Glass encapsulated
- Highly Stable
- Heat resistant
- Coating of glass body and leads for electrical insulation
- Fast response
- Dumet wires for leads (copper clad FeNi)

Applications:
- Automotive electronics
- Industrial electronics
- Home appliances

Specifications:
- Maximum power: 18mW (B57541); 32mW (B57551); 50mW (B57561)
- Climatic category: 55/250/56

Fig. 1
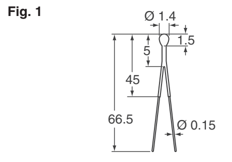

Fig. 2
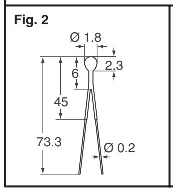

Fig. 3
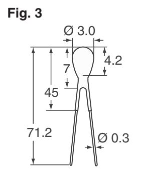

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/85 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	10	±1%	3480	495-2623-ND	4.73	4.15	3.26	B57541G0103F000
2	10	±1%	3480	495-2624-ND	4.15	3.64	2.86	B57551G0103F000
3	10	±1%	3480	495-2625-ND	4.80	4.20	3.30	B57561G0103F000

Leaded NTC Thermistors Glass Encapsulated for Temperature Measurement

RoHS COMPLIANT

Dimensions in mm

Features:
• Heat resistant • Highly stable • Measures temperatures up to 300°C • Fast response • Small dimensions • Leads are dumet wires (copper clad FeNi)
Applications:
• Automotive electronics • Industrial electronics • Home appliances
Specifications:
• Climatic category: 55/250/56 (B57540 series); 55/300/56 (B57550 and B57560 series) • Maximum power: 18mW (B57540 series); 32mW (B57550 series); 50mW (B57560 series)

Fig. 1
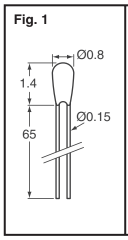

Fig. 2
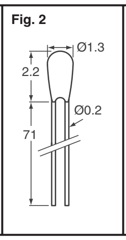

Fig. 3
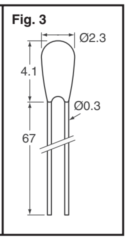

Fig.	Resistance @25°C (kΩ)	Resist-ance Tolerance	B25/85 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	5	±1%	3480	495-2128-ND	4.10	3.59	2.82	B57540G0502F000
	10	±1%	3480	495-2124-ND	4.10	3.59	2.82	B57540G0103F000
	30	±1%	3992	495-2127-ND	4.10	3.59	2.82	B57540G0303F000
	50	±1%	3992	495-2129-ND	4.10	3.59	2.82	B57540G0503F000
	100	±1%	4066	495-2125-ND	5.10	4.46	3.51	B57540G0104F000
2	5	±1%	3480	495-2133-ND	3.60	3.15	2.48	B57550G0502F000
	10	±1%	3480	495-2130-ND	3.79	3.32	2.61	B57550G0103F000
	30	±1%	3992	495-2132-ND	3.60	3.15	2.48	B57550G0303F000
	50	±1%	3992	495-2134-ND	3.60	3.15	2.48	B57550G0503F000
3	5	±1%	3480	495-2137-ND	3.70	3.24	2.55	B57560G0502F000
	10	±1%	3480	495-2135-ND	3.70	3.24	2.55	B57560G0103F000
	100	±1%	4066	495-2136-ND	3.70	3.24	2.55	B57560G0104F000

Leaded NTC Thermistors
for Temperature Measurement

RoHS COMPLIANT

B57164K Series:

Features: • Lacquer-coated thermistor disk• Tinned copper leads
Applications: • Temperature measurement and compensation
Specifications: • Climatic category: 55/155/21 • Maximum power: 450mW

B57871S Series:

Features: • High measuring accuracy • Cost effective • Rugged design • Epoxy resin encapsulation • Tinned copper leads
Applications: • Temperature measurement
Specifications: • Climatic category: 55/155/56 • Maximum power: 60mW

B57885S Series:

Features: • High measuring accuracy • Cost effective • Rugged design • Epoxy resin encapsulation • Tinned copper leads
Applications: • Temperature measurement and compensation
Specifications: • Climatic category: 55/155/56 • Maximum power: 100mW

B57891M Series:

Features: • Wide resistance range • Cost effective • Lacquer coated thermistor disk • Leads are tinned copper-clad Fe wire
Applications: • Temperature compensation • Temperature measurement • Temperature control
Specifications: • Climatic category: 40/125/56 • Maximum power: 200mW

B57891S Series:

Features: • Wide resistance range • Cost effective • Lacquer coated thermistor disk • Leads are tinned copper-clad Fe wire
Applications: • Temperature compensation • Temperature measurement • Temperature control
Specifications: • Climatic category: 55/155/56 • Maximum power: 200mW

Dimensions in mm

Fig. 1
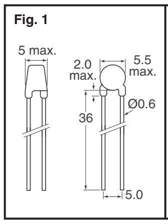

Fig. 2
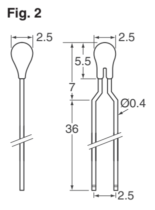

Fig. 3
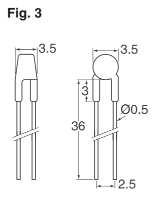

Fig. 4
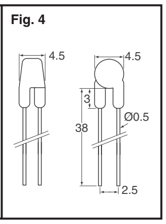

Fig.	Resistance @25°C (kΩ)	Resist-ance Tolerance	B25/100 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
B57164K Series								
1	4.7	±5%	3950	495-2082-ND	.58	.51	.41	B57164K472J
	10	±5%	4300	495-2080-ND	.58	.51	.41	B57164K103J
B57871S Series								
2	10	±1%	3460	495-3036-ND	2.18	1.92	1.51	B57871S0103F002
	10	±1%	3988	495-2153-ND	2.18	1.92	1.51	B57871S0103F001
	12	±1%	3760	495-3037-ND	2.18	1.92	1.51	B57871S0123F000
B57885S Series								
3	10	±1%	3980	495-2155-ND	1.82	1.60	1.26	B57885S103F1
B57891M Series								
3	1.0	±5%	3930	495-2156-ND	.70	.62	.49	B57891M0102J000
	1.5	±5%	3560	495-3064-ND	.70	.62	.49	B57891M0152J000
	2.2	±5%	3900	495-3067-ND	.70	.62	.49	B57891M0222J000
	4.7	±5%	3980	495-2161-ND	.70	.62	.49	B57891M0472J000
	6.8	±5%	3980	495-3071-ND	.70	.62	.49	B57891M0682J000
	10	±5%	3950	495-2157-ND	.70	.62	.49	B57891M0103J000
	33	±5%	4300	495-2159-ND	.70	.62	.49	B57891M0333J000
	100	±5%	4450	495-2158-ND	.70	.62	.49	B57891M0104J000
	470	±5%	5000	495-2162-ND	.70	.62	.49	B57891M0474J000
B57891S Series								
4	5	±1%	3980	495-2165-ND	1.75	1.54	1.21	B57891S0502F008
	10	±1%	3950	495-2163-ND	1.75	1.54	1.21	B57891S0103F008
	100	±1%	4450	495-2164-ND	1.75	1.54	1.21	B57891S0104F008

EPCOS

Surface Mount NTC Thermistors

For Temperature Measurement

Features:
- Inner electrodes • Excellent long-term aging stability in high-temperature and high humidity environments
- Super resistance stability during soldering (change ≤1%)

Applications:
- Temperature measurement and compensation in mobile phone applications (battery pack, TCXO, LCD)
- Data systems • Automotive electronics

Specifications:
- Climatic category: 55/125/56 • Maximum power: 150mW (0402); 180mW (0603); 210mW (0805)
- Resistance Tolerance: ±5%

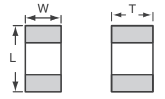

Size	Dimensions - mm L	W	T
0402	1.0	0.5	0.6
0603	1.6	0.8	0.9
0805	2.0	1.25	1.3

Size Code	Res. @ 25°C (Ω)	B25/85 (K)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Epcos Part No.
0402	10K	3980	495-2086-1-ND	.34	2.39	14.08	10,000	84.00/M	B57221V2103J60
0603	10K	3980	495-2104-1-ND	.44	3.14	18.45	4,000	118.00/M	B57321V2103J60
0805	10K	3980	495-2116-1-ND	.59	4.20	24.70	4,000	158.00/M	B57421V2103J62

† For Tape and Reel part number, change 1-ND to 2-ND.

NTC Thermistor Probes

B57020

Features: • Thermistor in molded plastic case • PVC insulated white connecting cable, UL approval (E252167)
Applications: • Cabinet and evaporator in refrigerators and deep freezers
Specifications: • Climatic category: 40/80/56 • Maximum power: 350mW

B57045

Features: • Cost effective • Good thermal coupling through screw type case (thread M3) • Electrically isolated aluminum case • Tinned copper leads
Applications: • Temperature compensation, measurement and control (chassis mounting)
Specifications: • Climatic category: 55/125/56 • Maximum power: 450mW • Test voltage: 2500VAC

B57500K

Features: • Copper case • Twin cable (black) • PVC Insulated wires with tinned ends, Tmax. = 105°C
Applications: • Evaporator sensor for air conditioning systems • Heating systems
Specifications: • Climatic category: 30/100/56 • Maximum power: 60mW • Test voltage: 1.5kVAC

B57500M

Features: • Epoxy resin encapsulation • PVC insulated black wire with tinned ends 26AWG
Applications: • Air sensor for air conditioning (NOT FOR USE IN EVAPORATOR)
Specifications: • Climatic category: 30/100/56 • Maximum power: 60mW • Test voltage: 1.25kVAC for 1 seconds

B57703

Features: • High accuracy • Easy mounting • Good thermal coupling through metal tag • Encapsulated in metal tag case • PTFE insulated leads of silver-plated nickel wire, 30AWG • UL Approval (E69802)
Applications: • Surface temperature measurement (housing and pipes)
Specifications: • Climatic category: 55/125/56 • Maximum power: 150mW
• Test voltage: 1kVAC

Dimensions in mm

Fig. 1

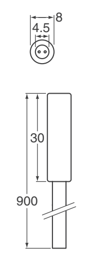

Fig. 2

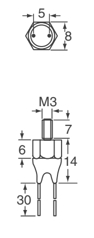

Fig. 3

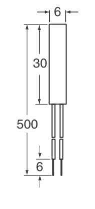

Fig. 4

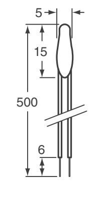

Fig. 5

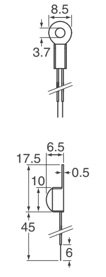

Fig.	Resistance @ 25°C (kΩ)	B25/100 (K)	Resist-ance Tolerance	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	5	3980	±2%	495-2075-ND	4.44	3.89	3.06	B57020M2502A017
2	10	4300	±10%	495-2138-ND	1.64	1.44	1.14	B57045K103K
3	10	3988	±3%	495-2171-ND	9.46	8.29	6.51	B57500K103A1
4	10	3988	±3%	495-2172-ND	4.00	3.50	2.75	B57500M0103A005
5	5	3988	±2%	495-2170-ND	4.08	3.57	2.81	B57703M0502G040
	10	3988	±2%	495-2169-ND	4.08	3.57	2.81	B57703M0103G040

Distributor
GE Sensing & Inspection Technologies

NTC Bead Thermistors

Thermometric Type C100 Thermochip's are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometric's exclusive "state of the art" materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C ~ 150°C. Best stability is achieved at temperatures not exceeding 105°C. Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best overall stability is achieved with exposure or storage temperatures lower than 105°C.

THERMAL AND ELECTRICAL PROPERTIES: • Dissipation Constant: (Still Air) 1mW°C, (Stirred Oil) 8mW°C **• Thermal Time Constant:** (Still Air) 10 Seconds, (Stirred Oil) 1 Second **• Maximum Power Rating:** .075 Watts (De-rated from 100% at 25°C ~ 0% at 100°C)

Type C100

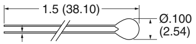

Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type DC95 Thermistors are designed to be interchangeable over 0°C ~ 70° and 0°C ~ 100°C.

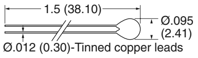

Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type EC95 Thermistors are designed to be interchangeable over -20°C ~ 50°C and 0°C ~ 70°C.

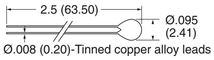

Ø.008 (0.20)-Tinned copper alloy leads
Epoxy coated thermochip

Resistance @ 25°C (Ω)	Resistance Ratio§	Digi Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
10K	9.06	235-1001-ND	7.52	5.92	4.70	3.48	C100F103G
10K	9.06	235-1002-ND	5.20	4.10	3.25	2.41	C100F103J
10K	7.60	235-1003-ND	5.20	4.10	3.25	2.41	C100Y103J
10K	9.06	235-1004-ND	8.56	6.75	5.35	3.96	DC95F103W
2K	9.06	235-1005-ND	8.56	6.75	5.35	3.96	DC95F202W
2252	9.06	235-1006-ND	8.56	6.75	5.35	3.96	DC95F232W
5K	9.06	235-1007-ND	8.56	6.75	5.35	3.96	DC95F502W
100K	10.45	235-1008-ND	8.56	6.75	5.35	3.96	DC95G104W
50K	10.45	235-1009-ND	8.56	6.75	5.35	3.96	DC95G503W
10K	9.06	235-1010-ND	8.56	6.75	5.35	3.96	EC95F103W
3K	9.06	235-1012-ND	8.56	6.75	5.35	3.96	EC95F302W
100K	10.45	235-1013-ND	8.56	6.75	5.35	3.96	EC95G104W
50K	10.45	235-1014-ND	8.56	6.75	5.35	3.96	EC95G503W
30K	8.69	235-1015-ND	6.82	5.37	4.26	3.16	EC95H303W

§ 0°C/50°C Ratio

NTC Disc Thermistors

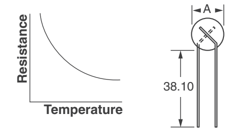

NTC (Negative Temperature Coefficient) Disc Thermistors decrease in resistance as temperature increases.

- **Temperature Coefficients Range:** -3.4%/°C ~ -5%/°C @ 25°C
- **Maximum Operating Temperature:** 150°C
- **Tolerance:** ±20% 100 ~ 5Ω; ±10% 1K ~ 100KΩ

Res. @ 25°C (Ω)	Res. Ratio▲	D.C.◊	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
100	5.53	2.5	2.79	KC001N-ND◆	2.92	2.63	2.07	1.65	RL1004-65.6-59-D1
50	5.53	6.5	5.59	KC012N-ND	2.29	1.93	1.33	1.14	RL2007-32.8-59-D1
25	5.53	6.5	5.59	KC011N-ND◆	2.29	1.93	1.33	1.14	RL2004-16.4-59-D1
5	5.53	10.0	12.19	KC024N-ND◆	2.43	2.19	1.73	1.37	RL4504-3.28-59-D1
1K	6.85	2.8	2.79	KC003N-ND◆	2.86	2.58	2.03	1.61	RL1007-624-73-D1
500	6.85	2.5	2.79	KC002N-ND◆	2.86	2.58	2.03	1.61	RL1003-312-73-D1
300	6.85	6.5	5.59	KC015N-ND◆	2.08	1.87	1.48	1.17	RL2008-187-73-D1
200	6.85	6.5	5.59	KC014N-ND◆	2.08	1.87	1.48	1.17	RL2006-125-73-D1
100	6.85	6.5	5.59	KC013N-ND◆	2.08	1.87	1.48	1.17	RL2003-62.4-73-D1
50	6.85	7.5	9.40	KC022N-ND	2.15	1.94	1.53	1.21	RL3504-31.2-73-D1
10K	9.60	2.5	2.79	KC025N-ND◆	2.86	2.58	2.03	1.61	RL1005-5744-103-D1
5K	9.10	2.5	2.79	KC005N-ND◆	2.86	2.58	2.03	1.61	RL1004-2910-97-D1
3K	9.10	2.5	2.79	KC004N-ND◆	2.86	2.58	2.03	1.61	RL1003-1746-97-D1
2K	9.10	6.5	5.59	KC017N-ND◆	2.08	1.88	1.48	1.17	RL2007-1164-97-D1
1K	9.10	6.5	5.59	KC016N-ND	2.08	1.88	1.48	1.17	RL2004-582-97-D1
10K	11.41	7.2	5.59	KC018N-ND◆	5.15	4.64	3.65	2.90	RL2012-5506-120-D1
100K	12.90	2.7	2.79	KC009N-ND	3.09	2.78	2.19	1.74	RL1006-53.4K-140-D1
50K	12.90	2.5	2.79	KC008N-ND◆	3.09	2.78	2.19	1.74	RL1003-26.7K-140-D1
100K	13.82	6.5	5.59	KC020N-ND◆	2.38	2.14	1.69	1.34	RL2008-52.3K-155-D1

◆ *RoHS Compliant* ▲ Resistance Ratio – ratio of zero power resistance @ 0°C to zero power resistance @ 50°C; AWG ◊ D.C. – Dissipation Constant (MW/°C)

NTC Thermistors

MA100 Series

These biomedical thermistor chips and subassemblies are designed to be interchangeable over a 0°C ~ 50°C range (see table). Best overall stability is maintained when exposure and storage temperatures remain below 70°C.

Temperature Range	Tolerance Code (°C) 235-1060/ 235-1064-ND	235-1061/ 235-1065-ND	235-1062/ 235-1063-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

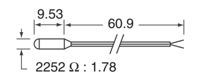

2252 Ω : 1.78
10 kΩ : 0.77

Resistance @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10K	235-1060-ND	15.90	12.53	9.94	MA100GG103A
10K	235-1064-ND	15.90	12.53	9.94	MA100BF103A
10K	235-1061-ND	8.61	6.79	5.39	MA100GG103B
10K	235-1065-ND	8.61	6.79	5.39	MA100BF103B
10K	235-1062-ND	7.77	6.12	4.86	MA100GG103C
2252	235-1063-ND◆	7.77	6.12	4.86	MA100GG232C

◆ *RoHS Compliant*

(Continued)

NTC Thermistors *(Cont.)*

MC65 Series

These thermistors are epoxy-coated for stability and have a maximum diameter of .065" (1.65mm). Standard leads are 3" (76.20mm) of 38 gauge, nickel alloy, bifilar, heavy isomid insulated wire. Each unit tracks a specified curve over the temperature range of 0°C ~ 50°C (see table).

Temperature Range	Tolerance Code (°C) 235-1057-ND	235-1058-ND	235-1059-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

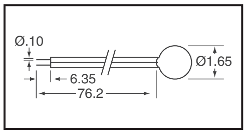

Resistance @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10K	235-1057-ND	11.08	9.96	7.85	MC65F103A
10K	235-1058-ND	7.90	7.10	5.60	MC65F103B
10K	235-1059-ND	8.33	7.50	5.90	MC65F103C

NHQ Series
SMT Chip 1206

Digi-Reel®

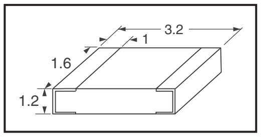

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with a solder-plated covering. The ceramic between the electrodes is glass covered.

Resistance @ 25°C (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 3,000	GE Sensing Part No.
3K	235-1108-1-ND	2.64	2.31	1.82	990.00/M	NHQ302B410T10
10K	235-1109-1-ND◆	2.86	2.50	1.97	1460.00/M	NHQ103B375T10
15K	235-1110-1-ND	2.64	2.31	1.82	990.00/M	NHQ153B400T10
50K	235-1111-1-ND◆	2.64	2.31	1.82	990.00/M	NHQ503B400T10
150K	235-1113-1-ND	2.64	2.31	1.82	—	NHQ154B425T10
500K	235-1114-1-ND◆	3.31	2.90	2.28	1241.10/M	NHQ504B435T10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

NHQM Series
SMT Chip 0805

Digi-Reel®

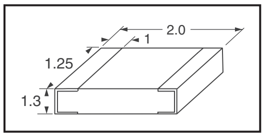

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with solder-plated covering. The ceramic between the electrodes is glass covered.

Resistance @ 25°C (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 3,000	GE Sensing Part No.
3K	235-1115-1-ND	2.57	2.25	1.77	1284.00/M	NHQM302B410T10
10K	235-1116-1-ND◆	2.57	2.25	1.77	1284.00/M	NHQM103B375T10
15K	235-1117-1-ND	2.57	2.25	1.77	1284.00/M	NHQM153B400T10
50K	235-1118-1-ND	2.57	2.25	1.77	1284.00/M	NHQM503B415T10
100K	235-1119-1-ND◆	2.57	2.25	1.77	1284.00/M	NHQM104B425T10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

DK Series

The DK range of DO-35 packaged NTC thermistors is designed for temperature measurement and control in applications which demand cost effective reliability. The hermetically-sealed construction combines the advantages of high temperature operation and high reliability of glass bead types with the closer tolerances associated with chip devices. The glass encapsulation offers the additional benefit of high voltage insulation. **Applications:** • Domestic Appliances • Automotive Systems • Data Processing Equipment • Heating/Ventilating/Air Conditioning Control

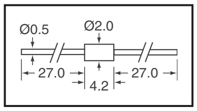

Resistance @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
5K	235-1103-ND	4.36	3.76	2.58	DKA502N5
10K	235-1104-ND	4.36	3.76	2.58	DKF103N5
20K	235-1105-ND	4.36	3.76	2.58	DKF203N5
30K	235-1106-ND	4.36	3.76	2.58	DKF303N5
50K	235-1107-ND	4.36	3.76	2.58	DKF503N5

Standard Thermistors
for Temperature Measurement Accuracy ±1°C (0°C ~ 120°C)

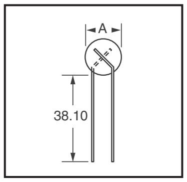

Specifications:
- Operating Range: -50°C ~ 150°C
- D.C.: Dissipation Constant (mW/°C)
- T.C.: Time Constant (Seconds)

Resistance @ 25°C (Ω)	Dim. A Max. (mm)	D.C. mW/°C	T.C. Sec.	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
1K	8.13	3.5	30	KC001E-ND	2.94	2.65	2.09	RL3005-574.0-103-SA
2K	5.59	2.5	20	KC002E-ND	2.83	2.55	2.01	RL2005-1148-103-SA
2.786K	5.59	2.5	20	KC003E-ND	2.83	2.55	2.01	RL2006-1600-103-SA
3K	5.59	2.5	20	KC004E-ND	2.83	2.55	2.01	RL2007-1723-103-SA
5K	2.79	1.0	10	KC005E-ND	3.65	3.28	2.59	RL1003-2871-103-SA
10K	2.79	1.0	10	KC006E-ND	3.65	3.28	2.59	RL1005-5744-103-SA

Miniature Sensors
1°C Accuracy

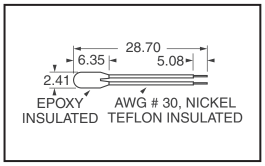

Specifications:
- Temperature Accuracy: ±1°C @ 25°C
- Dissipation Constant: 1.4 mW/°C
- Time Constant: 15 seconds
- Operating Range: -50°C ~ 150°C

Resistance @ 25°C (Ω)	Temperature Coef. %/°C @25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
2K	-3.83	MS73	KC001T-ND	3.23	2.91	2.29	1.82	RL0503-1248-73-MS
5K	-4.43	MS95	KC002T-ND	3.23	2.91	2.29	1.82	RL0503-2890-95-MS
10K	-4.40	MS97	KC003T-ND	3.23	2.91	2.29	1.82	RL0503-5820-97-MS
30K	-4.32	MS96	KC004T-ND	3.23	2.91	2.29	1.82	RL0503-17.56K-96-MS
50K	-4.84	MS120	KC005T-ND	3.23	2.91	2.29	1.82	RL0503-27.53K-120-MS
100K	-4.78	MS122	KC006T-ND	3.23	2.91	2.29	1.82	RL0503-55.36K-122-MS

Glass Encapsulated NTC Thermistors

Glass encapsulated NTC thermistors are tiny pellets of thermistor material hermetically sealed in glass bodies with a controlled amount of selected atmosphere.

The hermetic seal makes these parts extremely stable in applications up to 204°C (400°F)

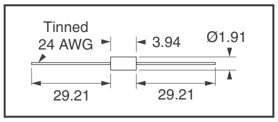

Specifications:
- Temperature Range: -50°C ~ 204°C
- Dissipation Constant: 3.0 mW/°C
- Time Constant: 7 seconds

Ro @ 25°C (Ω)	Temperature Coef. %/°C @25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
250	-3.34	GE55‡	KC001G-ND	3.25	2.93	2.31	1.83	AL03006-165.9-55-G1
500	-3.34	GE55‡	KC002G-ND	3.25	2.93	2.31	1.83	AL03006-331.8-55-G1
1K	-3.83	GE73	KC003G-ND	3.25	2.93	2.31	1.83	AL03006-624-73-G1
2K	-3.83	GE73	KC004G-ND	3.25	2.93	2.31	1.83	AL03006-1248-73-G1
2.786K	-4.68	GE101	KC005G-ND	3.25	2.93	2.31	1.83	AL03006-1576-101-G1
3K	-3.85	GE76	KC006G-ND	3.25	2.93	2.31	1.83	AL03006-1847-76-G1
4K	-3.85	GE76	KC007G-ND	3.25	2.93	2.31	1.83	AL03006-2463-76-G1
5K	-3.85	GE76	KC008G-ND	3.25	2.93	2.31	1.83	AL03006-3079-76-G1
10K	-4.41	GE97A	KC009G-ND	3.25	2.93	2.31	1.83	AL03006-5818-97-K-R
20K	-4.34	GE98	KC010G-ND	3.25	2.93	2.31	1.83	AL03006-11.7K-98-G1
30K	-4.34	GE98	KC011G-ND	3.25	2.93	2.31	1.83	AL03006-17.53K-98-G1
50K	-4.32	GE97B	KC012G-ND	3.25	2.93	2.31	1.83	AL03006-29.1K-97-G1
100K	-4.32	GE97B	KC013G-ND	3.25	2.93	2.31	1.83	AL03006-58.2K-97-G1
200K	-4.71	GE123	KC014G-ND	3.25	2.93	2.31	1.83	AL03006-111.3K-123-G1
500K	-4.99	GE138	KC015G-ND	3.25	2.93	2.31	1.83	AL03006-269.8K-138-G1
1M	-5.07	GE145	KC016G-ND	3.25	2.93	2.31	1.83	AL03006-535K-145-G1

‡ Maximum Operating Temperature: 150°C

SSM THIN FILM TECHNOLOGY SUSUMU

NEW! High Frequency NTC Chip Thermistor — HFT Series

Digi-Reel®

Applications: • Ideal for compensating temperature drift in high frequency amplifier applications. **Specifications:** • Tolerance: ±5% @ 25% • Operating Frequency: DC ~ 10GHz • Operating Power (Max.): 500mW • Operating Temperature Range: -40°C ~ 125°C

Size Code	Resistance @ 25°C (Ω)	B Constant (DC R25 ~ R50°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 250	Susumu Part No.
0805	15	1950 ±5%	408-1374-1-ND	20.25	13.77	11.55	408-1374-2-ND	2835.00	HFT1220-15R0-J
	30	2150 ±5%	408-1375-1-ND	20.25	13.77	11.55	408-1375-2-ND	2835.00	HFT1220-30R0-J
	40	2150 ±5%	408-1376-1-ND	20.25	13.77	11.55	408-1376-2-ND	2835.00	HFT1220-40R0-J
	50	2150 ±5%	408-1377-1-ND	20.25	13.77	11.55	408-1377-2-ND	2835.00	HFT1220-50R0-J
	60	2150 ±5%	408-1378-1-ND	20.25	13.77	11.55	408-1378-2-ND	2835.00	HFT1220-60R0-J

Note: For more information, please see Digi-Key web site.

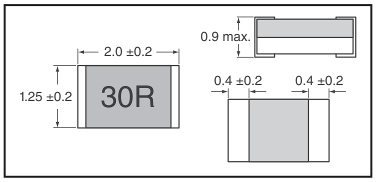

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Panasonic

Multilayer Chip NTC Thermistors (ERTJ)

The Multilayer Chip NTC Thermistors are especially designed for surface mountings featuring the miniature sizes of "0201", "0402" and "0603" type (EIA) with highly reliable multilayer and monolithic structure. **FEATURES:** • Highly reliable multilayer/monolithic structure • Superior heat resistance to reflow soldering and excellent solderability thanks to the unique external electrodes of three metallic layers • Operating Temperature Range: -40°C ~ 125°C • Resistance to Soldering Heat: 270°C-3s, 260°C-10s • Heat Dissipation Constant (mounted on a glass epoxy,1.6t): **0201 Series:** approximately 1mw/°C, **0402 Series:** approximately 2mw/°C and **0603 Series:** approximately 3mw/°C • Rated Maximum Power Dissipation: **0201 Series:** 33 mW, **0402 Series:** 66 mW and **0603 Series:** 100 mW

SMT

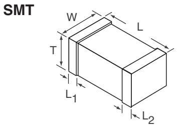

Size Code (EIA)	Dimensions (mm) L	W	T	L1 L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.80	0.30

Zero-Power Resist. (at 25°C)	Resis-tance Tol.	B Value B25/50	B25/85	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Panasonic Part No.
0201										
2KΩ	±5%	4500K ±2%	(4450K)	P12020CT-ND	.53	3.00	19.46	15,000	115.00/M	ERT-JZET202J
3KΩ	±5%	4500K ±2%	(4450K)	P12021CT-ND	.53	3.00	19.46	15,000	115.00/M	ERT-JZET302J
4.7KΩ	±5%	4500K ±2%	—	P12805CT-ND	.27	1.47	9.08	15,000	50.00/M	ERT-JZET472J
10KΩ	±5%	—	3435K ±2%	P12358CT-ND	.25	1.37	8.47	15,000	47.00/M	ERT-JZEG103JA
47KΩ	±5%	4050K ±3%	—	P12359CT-ND	.25	1.37	8.47	15,000	47.00/M	ERT-JZEP473J
100KΩ	±3%	4500K ±3%	(4750K)	P13700CT-ND	.34	1.93	12.52	15,000	74.00/M	ERT-JZEV104H
100KΩ	±5%	4700K ±2%	—	P12360CT-ND	.25	1.37	8.47	15,000	47.00/M	ERT-JZEV104J
0402										
22Ω	±5%	2750K ±3%	(2700K)	P10557CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA220J
33Ω	±5%	2750K ±3%	(2700K)	P10558CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA330J
40Ω	±5%	2750K ±3%	(2700K)	P10559CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA400J
47Ω	±5%	2750K ±3%	(2700K)	P10560CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA470J
68Ω	±5%	2800K ±3%	(2700K)	P10561CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA680J
100Ω	±5%	2800K ±3%	(2750K)	P10562CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA101J
150Ω	±5%	2800K ±3%	(2750K)	P10563CT-ND	.38	2.07	12.80	10,000	71.00/M	ERT-J0EA151J
1.0KΩ	±5%	4500K ±3%	(4450K)	P10564CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET102J
1.5KΩ	±5%	4500K ±3%	(4450K)	P10565CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET152J
2.0KΩ	±5%	4500K ±3%	(4450K)	P10566CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET202J
2.2KΩ	±5%	4500K ±3%	(4450K)	P10567CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET222J
3.0KΩ	±5%	4500K ±3%	(4450K)	P10568CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET302J
3.3KΩ	±5%	4500K ±3%	(4450K)	P10569CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET332J
4.7KΩ	±5%	4500K ±3%	(4450K)	P10570CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ET472J
3.3KΩ	±5%	4250K ±3%	(4300K)	P10571CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ER332J
4.7KΩ	±5%	4250K ±3%	(4300K)	P10572CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ER472J
6.8KΩ	±5%	4250K ±3%	(4300K)	P10573CT-ND	.33	1.81	11.19	10,000	62.00/M	ERT-J0ER682J
10KΩ	±5%	4250K ±3%	(4300K)	P10574CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0ER103J
10KΩ	±1%	(3375K)	3435K ±1%	P12007CT-ND	.59	3.42	23.42	10,000	146.00/M	ERT-J0EG103FA
10KΩ	±2%	(3375K)	3435K ±1%	P12008CT-ND	.58	3.31	21.47	10,000	126.00/M	ERT-J0EG103GA
10KΩ	±3%	3900K ±2%	(3970K)	P13701CT-ND	.39	2.20	14.31	10,000	84.00/M	ERT-J0EM103H
10KΩ	±3%	4250K ±2%	(4300K)	P13702CT-ND	.39	2.20	14.31	10,000	84.00/M	ERT-J0ER103H
10KΩ	±3%	(3375K)	3435K ±1%	P12009CT-ND	.49	2.76	17.89	10,000	105.00/M	ERT-J0EG103HA
10KΩ	±5%	(3375K)	3435K ±1%	P12010CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EG103JA
10KΩ	±5%	3900K ±2%	—	P12985CT-ND	.26	1.43	8.80	10,000	49.00/M	ERT-J0EM103J
15KΩ	±5%	4250K ±3%	(4300K)	P10575CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0ER153J
22KΩ	±5%	4250K ±3%	(4300K)	P10576CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0ER223J
33KΩ	±5%	4050K ±2%	—	P13579CT-ND	.59	3.45	23.62	10,000	147.00/M	ERT-J0EP333J
33KΩ	±5%	4250K ±3%	(4300K)	P10577CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0ER333J
47KΩ	±5%	4700K ±3%	(4750K)	P10578CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV473J
68KΩ	±5%	4700K ±3%	(4750K)	P10579CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV683J
47KΩ	±5%	4050K ±2%	(4100K)	P11441CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EP473J
100KΩ	±2%	4700K ±2%	(4750K)	P13705CT-ND	.54	3.03	19.68	10,000	116.00/M	ERT-J0EV104G
100KΩ	±3%	4500K ±2%	(4580K)	P13704CT-ND	.39	2.20	14.31	10,000	84.00/M	ERT-J0ET104H
100KΩ	±3%	4700K ±2%	(4750K)	P13706CT-ND	.39	2.20	14.31	10,000	84.00/M	ERT-J0EV104H
100KΩ	±5%	4250K ±2%	(4300K)	P13703CT-ND	.49	2.74	17.82	10,000	105.00/M	ERT-J0ER104J
100KΩ	±5%	4330K ±2%	—	P13580CT-ND	.59	3.45	23.62	10,000	147.00/M	ERT-J0ES104J
100KΩ	±5%	4500K ±2%	—	P12986CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0ET104J
100KΩ	±5%	4700K ±2%	(4750K)	P11442CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV104J
150KΩ	±5%	4500K ±2%	—	P13581CT-ND	.59	3.45	23.62	10,000	147.00/M	ERT-J0ET154J
150KΩ	±5%	4700K ±2%	(4750K)	P11443CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV154J
220KΩ	±5%	4700K ±2%	(4750K)	P11444CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV224J
330KΩ	±5%	4700K ±2%	(4750K)	P11445CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV334J
470KΩ	±5%	4700K ±2%	(4750K)	P11446CT-ND	.35	1.94	12.00	10,000	66.00/M	ERT-J0EV474J
0603										
22Ω	±5%	2750K ±3%	(2700K)	P10531CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA220J
33Ω	±5%	2750K ±3%	(2700K)	P10532CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA330J
40Ω	±5%	2800K ±3%	(2750K)	P10533CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA400J
47Ω	±5%	2800K ±3%	(2750K)	P10534CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA470J
68Ω	±5%	2800K ±3%	(2750K)	P10535CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA680J
100Ω	±5%	2800K ±3%	(2750K)	P10536CT-ND	.44	2.48	16.10	4,000	106.00/M	ERT-J1VA101J
1.0KΩ	±5%	4500K ±3%	(4450K)	P10537CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT102J
1.5KΩ	±5%	4500K ±3%	(4450K)	P10538CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT152J
2.0KΩ	±5%	4500K ±3%	(4450K)	P10539CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT202J
2.2KΩ	±5%	4500K ±3%	(4450K)	P10540CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT222J
3.0KΩ	±5%	4500K ±3%	(4450K)	P10541CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT302J
3.3KΩ	±5%	4250K ±3%	(4300K)	P10544CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR332J
3.3KΩ	±5%	4500K ±3%	(4450K)	P10542CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT332J
4.7KΩ	±5%	4500K ±3%	(4450K)	P10543CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VT472J
4.7KΩ	±5%	4250K ±3%	(4300K)	P10545CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR472J
6.8KΩ	±5%	4250K ±3%	(4300K)	P10546CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR682J
10KΩ	±1%	(3375K)	3435K ±1%	P12011CT-ND	.66	3.74	24.28	4,000	160.00/M	ERT-J1VG103FA
10KΩ	±2%	(3375K)	3435K ±1%	P12012CT-ND	.61	3.46	22.44	4,000	147.00/M	ERT-J1VG103GA
10KΩ	±3%	(3375K)	3435K ±1%	P12013CT-ND	.49	2.76	17.89	4,000	118.00/M	ERT-J1VG103HA
10KΩ	±3%	4250K ±2%	(4300K)	P13707CT-ND	.47	2.64	17.17	4,000	96.00/M	ERT-J1VR103H
10KΩ	±5%	(3375K)	3435K ±1%	P12014CT-ND	.40	2.25	14.59	4,000	96.00/M	ERT-J1VG103JA
10KΩ	±5%	4250K ±3%	(4300K)	P10547CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR103J
15KΩ	±5%	4250K ±3%	(4300K)	P10548CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR153J
22KΩ	±5%	4250K ±3%	(4300K)	P10549CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR223J
33KΩ	±5%	4250K ±3%	(4300K)	P10550CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR333J
47KΩ	±5%	4250K ±3%	(4300K)	P10551CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR473J
47KΩ	±5%	4050K ±2%	(4100K)	P12015CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VP473J
47KΩ	±5%	4700K ±3%	(4750K)	P10553CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VV473J
68KΩ	±5%	4250K ±3%	(4300K)	P10552CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VR683J
68KΩ	±5%	4700K ±3%	(4750K)	P10554CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VV683J
100KΩ	±1%	(4330K)	4390K ±1%	P12016CT-ND	.64	3.76	25.72	4,000	174.00/M	ERT-J1VS104FA
100KΩ	±2%	(4330K)	4390K ±1%	P12017CT-ND	.59	3.47	23.78	4,000	161.00/M	ERT-J1VS104GA
100KΩ	±3%	(4330K)	4390K ±1%	P12018CT-ND	.49	2.76	17.89	4,000	118.00/M	ERT-J1VS104HA
100KΩ	±5%	(4330K)	4390K ±1%	P12019CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VS104JA
100KΩ	±5%	4700K ±3%	(4750K)	P10555CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VV104J
150KΩ	±5%	4700K ±3%	(4750K)	P10556CT-ND	.39	2.20	14.31	4,000	94.00/M	ERT-J1VV154J

† For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic

NTC Thermistors

1 and 2: Significant digit; 3: Multiplier

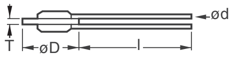

Uses standard resistance color codes.

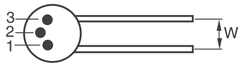

FEATURES:

- Resistance temperature coefficient is negative and extremely large
- Wide selection of temperature coefficient (constant B)
- Excellent electrical and thermal stability
- Color coded to indicate resistance value @ 25°C

SPECIFICATIONS:

Maximum Watt Rating: (W): PNT101-121 – 0.4; PNT128-138 – 0.6. Nominal Time Constant (second): PNT101-121 – 20; PNT128-138 – 27.

APPLICATIONS:

- For measuring equipment: thermometer, wind gauge, liquid level gauge, temperature controller
- For temperature compensation: transistor circuit, measuring equipment
- For driving: Delay setting in relay operation, inrush current surge protection, communication equipment, AGC, time lag

F Type Dimensions (mm)	øD	T	l	W	ød
PNT101 ~ PNT121 (D2)	5.0 ±0.5	1.3 ±0.5	30 min.	2.5 ±1	0.4
PNT128 ~ PNT138 (D3)	7.5 ±0.5	1.4 ±0.5	30 min.	5 ±1	0.5

Res. at 25°C (Ω)	Temp. Coef. (25°C) %/°C	Res. Ratio R25/ R50	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
40	-3.9	2.48	PNT101-ND◆	.78	.46	.32	ERT-D2FFL400S
250	-4.2	2.62	PNT108-ND◆	.78	.46	.32	ERT-D2FGL251S
300	-4.2	2.62	PNT109-ND	.78	.46	.31	ERT-D2FGL301S
1,400	-4.4	2.76	PNT114-ND◆	.78	.46	.31	ERT-D2FGL142S
33,000	-5.1	3.22	PNT121-ND◆	.78	.46	.31	ERT-D2FHL333S
30	-3.7	2.30	PNT128-ND	1.63	1.40	.93	ERT-D3FFL300S
40	-3.2	2.30	PNT130-ND	1.63	1.40	.93	ERT-D3FFL400S
75	-4.2	2.62	PNT131-ND	1.63	1.40	.93	ERT-D3FGL750S
80	-4.2	2.62	PNT132-ND	1.63	1.40	.93	ERT-D3FGL800S
130	-4.5	2.62	PNT134-ND	1.63	1.40	.93	ERT-D3FGL131S
500	-4.6	2.83	PNT135-ND	1.63	1.40	.93	ERT-D3FGL501S
4,000	-4.6	2.90	PNT136-ND	1.63	1.40	.93	ERT-D3FHL402S
80,000	-5.6	3.70	PNT138-ND◆	1.63	1.40	.93	ERT-D3FIL803S

◆ *RoHS Compliant*

NVE CORPORATION

GT Sensors for Gear Tooth Applications

NVE's GT Sensor products are designed for industrial speed sensing where magnetic detection of gear teeth and magnetic encoder wheels with large air gaps are required. GT Sensors with both analog and digital outputs are available. All parts operate down to zero speed. The analog parts feature varied spacing of the sensor elements on the IC to provide usable output signals for even the smallest gear teeth. Single bridges provide speed information, and dual bridges provide speed and direction. The digital sensors take advantage of the GMR sensor element's superior magnetic performance to provide a 50% duty cycle output over variations in voltage and temperature.

Features: • Input Voltage Range: Maximum: 30V • Operating Frequency: Minimum: DC, Maximum: 1MHz • Temperature Range: -50°C ~ 150°C • Maximum Output: Nominal: 80mV/V • Resistance: 5K typical

Single or Dual Bridge	Element Spacing (mm)	Output	Digi-Key Part No.	Price Each			NVE Part No.
				1	10	25	
Single	1	Analog	391-1055-5-ND†	4.11	3.09	2.74	ABL004-00E
Single	0.5	Analog	391-1056-5-ND†	4.11	3.09	2.74	ABL005-00E
Dual	1	Analog	391-1057-5-ND†	4.95	3.72	3.30	ABL014-00E
Dual	0.5	Analog	391-1058-5-ND†	4.95	3.72	3.30	ABL015-00E
Single	1	Digital	391-1064-1-ND‡▲	6.13	5.25	4.38	AKL001-12E
Single	1	Digital	391-1064-2-ND‡§	6562.50/2,500			AKL001-12E

† 8-MSOP ‡ TDFN8-SO8 § Tape and Reel ▲ Cut Tape

AFL Series - Low Power Digital Switch Parts

Featuring low magnetic field operate points and very low power consumption, the AFL series digital switch sensors are the first high precision digital magnetic sensors suitable for continuous operation in battery powered applications. Precise magnetic operate points of 10 Gauss are maintained, along with operating voltages down to 0.9V. Current sinking and current sourcing outputs are available.

Features: • Operating Point: 10 Gauss ±3 Gauss • Operating Frequency: Minimum: DC, Maximum 100kHz • Minimum Operate/Release Point: Differential 2 Gauss • Maximum Output: 100µA

Volt.	Operating Temperature Range	Output	Bridge	Digi-Key Part No.	Price Each			NVE Part No.
					1	10	25	
				Digital Switches				
1.3	-20°C ~ 85°C	Xistor	Single	391-1039-5-ND◊	9.72	7.29	6.48	AFL000-00E

◊ 8-MSOP

GMR Digital Magnetic Sensors

Features: Absolute Maximum Ratings: Parameters: • Supply Voltage: 33V • Reverse Battery Voltage: -33V • Continuous Output Current: 24mA • Operating Temperature Range: -40°C ~ -125°C • Magnetic Field: Unlimited Oersteds

Sensitivity	Direction of Sensitivity	Output Type	Package	Digi-Key Part No.	Price Each			NVE Part No.
					1	10	25	
20 Gauss	Cross Axis	Source and Sink	8-TSSOP	391-1013-ND	3.81	2.86	2.54	AD221-00

GMR Analog Magnetic Field Sensors

NVE's Giant Magnetoresistive Field Sensors offer unique and unparalleled magnetic sensing capabilities. The high sensitivity and ability to sense static magnetic fields provide superior performance which sets them apart from other sensors on the market today. NVE's sensors provide high sensitivity, temperature stability, low power consumption, and small size.

Features:
• Input Voltage Range: Maximum: ±25V • Operating Frequency: Minimum: DC, Maximum: ±1MHz • Temperature Range: -50°C ~ 125°C • Maximum Output: Nominal: 45mV/V • Resistance: 5K typical, 30K typical for AA006, 2K typical for AAH

Saturation Field (Oe)	Specified Linear Range Oe		Sensitivity (mV/V/Oe)		Digi-Key Part No.	Price Each			NVE Part No.
	Min.	Max.	Min.	Max.		1	10	25	
15	1.5	10.5	3	4.2	391-1045-5-ND◆‡	14.58	10.94	9.72	AA002-02E
20	2	14	2	3.2	391-1048-5-ND◆‡	8.34	6.26	5.56	AA003-02E
50	5	35	0.9	1.3	391-1049-5-ND◆◊	8.10	6.08	5.40	AA004-00E
50	5	35	0.9	1.3	391-1050-5-ND◆‡	8.10	6.08	5.40	AA004-02E
100	10	70	0.45	0.65	391-1002-ND‡	8.10	6.08	5.40	AA005-02
100	10	70	0.45	0.65	391-1052-5-ND◆‡	8.10	6.08	5.40	AA005-02E
50	5	35	0.9	1.3	391-1054-5-ND◆‡	13.71	10.29	9.14	AA006-02E
6	0.6	3.0	11	18	391-1046-5-ND◆‡	14.58	10.94	9.72	AAH002-02E
15	1.5	7.5	3.2	4.8	391-1051-5-ND◆◊	8.10	6.08	5.40	AAH004-00E
15	1.5	10.5	3	4.2	391-1047-5-ND◆‡	14.58	10.94	9.72	AAL002-02E

◆ ***RoHS Compliant*** ‡ 8-SOIC ◊ 8-MSOP

GMR Sensor Evaluation Kits

AG001-01: This kit features several types of NVE's AA and AB Series parts, a selection of permanent magnets for activation or bias purposes, and circuit boards to mount the parts for testing purposes. Also included is a copy of NVE's catalog and applications notes on CD ROM.

AG003-01: Facilitates laboratory experimentation and development using GMR current sensors. The kit consists of (4) NVE current sensors (PN AA003-02) assembled to printed circuit board (PN AG002-01). The PCB has (4) trace geometries to simulate various PCB current sensor configurations.

AG910-07: Includes over 15 different GMR switch digital magnetic sensors with different operating points and different output configurations (current sink and current source). Magnets, circuit boards, a ZIF socket for easy testing, and NVE's catalog and application notes on CD ROM are included.

AG920-07: Kit includes analog and digital versions of the GT Sensor products, for gear tooth sensing applications. A large variety of circuit boards and magnets are included for bench testing purposes, along with NVE's catalog and application notes on CD ROM.

Description	Digi-Key Part No.	Price Each	NVE Part No.
Analog Sensor Evaluation Kit	391-1059-ND◆	120.00	AG001-01E
Current Sensor Evaluation Kit	391-1060-ND◆	86.00	AG003-01E
GMR Switch Evaluation Kit	391-1044-ND	180.00	AG910-07
GT Sensor Evaluation Kit	391-1063-ND◆	130.00	AG920-07E

◆ ***RoHS Compliant***

cynergy3 components

Float Sensors

Liquid level sensors are cost effective sensors for detecting the presence or absence of liquids. Perfect for vending machines, commercial washing machines, evaporator units and any upper and lower liquid level sensing applications. Horizontal sensors can be turned 180 degrees for opposite detection. UL approved E171218.

Dimensions in Inch (mm)

Fig. 1 *NEW!*

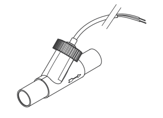

Fig. 2 *NEW!*

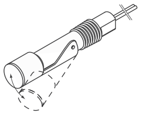

Fig. 3 *NEW!*

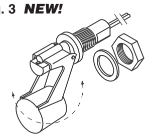

Fig. 4

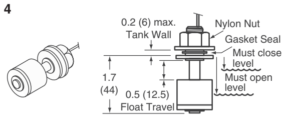

Top or Bottom Mount

Fig. 5 *NEW!*

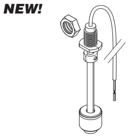

Fig. 6

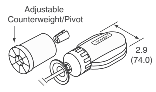

Tank Level Sensor

Fig.	Description	Material	Contact Rating	Digi-Key Part No.	Price Each			Cynergy3 Part No.
					1	10	50	
			NEW! Liquid Flow Switch NEW!					
1	Flow Switch, .53GPM Trip, Std. Flow SPST-N/O 15mm Diameter	Acetal Resin	1.0A	725-1069-ND	17.73	16.88	16.03	FS15A
	Flow Switch, .24GPM Trip, Low Flow SPST-N/O 15mm Diameter	Acetal Resin	1.0A	725-1070-ND	19.08	18.16	17.25	FS15LF
	Flow Switch, .99GPM Trip, High Flow SPST-N/O 22mm Diameter	Acetal Resin	1.0A	725-1071-ND	18.61	17.72	16.83	FS22A
			NEW! Horizontal Mount Sensors NEW!					
2	Float Switch, Horizontal Mount, Hot Liquid Type, 47mm	Stainless Steel	0.5A	725-1077-ND	62.44	59.45	56.46	SSF212X100
	Float Switch N/O 100VA, 94mm	Black Nylon	5A	725-1059-ND	17.38	16.54	15.72	RSF33W100RC
	Float Switch Horizontal SPST, 94mm	Poly Prop	5A	725-1060-ND	18.41	17.53	16.64	RSF34W100RF
	Float Switch PPS N/O 50CM LEAD, 88mm	Grey PPS	0.6A	725-1061-ND	17.04	16.22	15.40	RSF46Y050TG
	Float Switch External Mount N/O, 90mm	Grey PPS	0.6A	725-1064-ND	16.32	15.53	14.75	RSF86Y050T
	Float Switch Horizontal .6A NO/NC SPDT, 90mm	Grey PPS	0.6A	725-1010-ND	14.83	14.12	13.41	RSF86Y100R
	Float Switch N/O 50CM, 88mm	Poly Sulphide	0.6A	725-1063-ND	17.83	16.97	16.12	RSF76Y050TV
3	Float Switch, Horizontal Mount, Hot Liquid Type, 39" Leads, 102.5mm	Poly Prop	0.6A	CC1561-ND	16.42	15.63	14.84	RSF14Y100RF
	Float Switch, Horizontal Mount, Hot Liquid Type, 39" Leads, 102.5mm	Grey PPS	0.6A	CC1562-ND	18.61	17.73	16.83	RSF16Y100RF
	Float Switch Horizontal Mount, Hot Liquid Type, 102.5mm	Grey PPS	0.6A	725-1058-ND	20.48	19.50	18.51	RSF16Y050TG
			Vertical Mount Sensors					
4	Float Switch, Single Switch Type, 1/8" NPT	Black Nylon	0.6A	725-1016-ND	13.73	13.07	12.41	RSF53Y100R1/8
	Float Switch, Single Switch Type, 1/8" NPT	Grey PPS	0.6A	725-1018-ND	16.38	15.59	14.81	RSF56Y100R1/8
	Float Switch PPS N/O 50cm	Grey PPS	0.6A	725-1062-ND ***NEW!***	18.04	17.17	16.30	RSF56Y050TB
5	Float Switch, Dual Switch, 127mm	Grey PPS	0.6A	725-1072-ND ***NEW!***	35.64	33.94	32.23	RSF66A25B100
	Float Switch, Dual Switch, 152mm	Grey PPS	0.6A	725-1073-ND ***NEW!***	35.64	33.94	32.23	RSF66A25B125
	Float Switch, Dual Switch, 177mm	Grey PPS	0.6A	725-1074-ND ***NEW!***	35.64	33.94	32.23	RSF66A25B150
	Float Switch, Dual Switch, 202mm	Grey PPS	0.6A	725-1075-ND ***NEW!***	35.64	33.94	32.23	RSF66A25B175
	Float Switch, Dual Switch, 120mm	Grey PPS	0.6A	725-1076-ND ***NEW!***	35.64	33.94	32.23	RSF66A25B75
	Float Switch, Dual 134mm	Grey PPS	0.6A	725-1065-ND ***NEW!***	39.78	37.87	35.97	RSF66A50A100
	Float Switch, Dual 184mm	Grey PPS	0.6A	725-1066-ND ***NEW!***	39.78	37.87	35.97	RSF66A50A150
	Float Switch, Dual Vertical 177mm	Grey PPS	0.6A	725-1068-ND ***NEW!***	39.78	37.87	35.97	RSF66B50B150
			Cable Mount Tank Sensors					
6	Turbulant Liquids, SPST-NC, with 5m Cable, WRAS Approved	Poly	10A	725-1025-ND	74.02	70.47	66.93	FFSMC10B

Vikuiti™ Enhanced Specular Reflector (ESR)

A reflector for a brighter, more efficient display

Features: • 98% reflectance across the visible spectrum • Thin, non-metallic polymer film
Specifications: • Sheet Size: 11 in. x 11 in. • Thickness: 65µm (2.6 mils)

Description	Digi-Key Part No.	Price Each		3M Part No.
		1	10	
ESR film, 1 sheet	3M5510-ND	34.00	27.20	98044009557
ESR film, 30 sheet product kit	3M5510-KIT-ND	739.50	—	98044009557

Note: *For detailed specifications, please see our website.*

Vikuiti™ Brightness Enhancement Film (BEF) II and III

Vikuiti BEF II and III recycle diffused light into the backlight and direct the light through the LCD, thereby providing increased brightness toward the on-axis viewer. **The prism pitch refers to the distance between the peaks of adjacent prisms when the prism angle is fixed at 90°.**

Description	Prism Pitch (µm)	Digi-Key Part No.	Price Each		3M Part No.
			1	10	
BEF II, 1 sheet	50	3M5511-ND	29.33	23.47	98043985039
BEF II, 30 sheet product kit	50	3M5511-KIT-ND	660.00	—	98043985039
BEF II, 1 sheet	24	3M5512-ND	29.33	23.47	98043985609
BEF II, 30 sheet product kit	24	3M5512-KIT-ND	660.00	—	98043985609
BEF III-M, 1 sheet	50	3M5513-ND†	29.33	23.47	98044003659
BEF III-M, 30 sheet product kit	50	3M5513-KIT-ND†	660.00	—	98044003659

† Matte bottom surface finish **Note**: *For detailed specifications, please see our website.*

Vikuiti™ Dual Brightness Enhancement Film (DBEF)

Vikuiti DBEF films work through polarization recycling. A typical polarizer absorbs light that is not polarized correctly. DBEF reflects this light into the backlight, where it can be recycled into the correct polarization.

Description	Digi-Key Part No.	Price Each	3M Part No.
DBEF-E Film, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5670-KIT-ND	957.00	98-0440-0359-2
DBEF-E Film, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5671-KIT-ND	957.00	98-0440-0360-0
DBEF-D400, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5672-KIT-ND	1181.75	98-0440-4277-2
DBEF-D400, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5673-KIT-ND	1181.75	98-0440-4278-0

Note: *For detailed specifications, please see our website.*

Vikuiti™ Anti-Reflection Matte Removable Film (ARMR200)

Features: • Durable - Protects display from scratches and scuffs • Anti-reflective coating helps improve clarity and readability • Easy to clean - markers and fingerprints wipe away easily • Non-tacky adhesive removes easily with no residue • Matte surface for less slippage when writing with a stylus

Description	Digi-Key Part No.	Price Each	3M Part No.
ARMR200, 2.84 in. x 2.13 in. 3 sheet kit	3M5514-KIT-ND	16.88	98044042731
ARMR200, 9.74 in. x 7.32 in. 1 sheet	3M5515-ND	29.98	98044042616
ARMR200, 9.74 in. x 7.32 in. 5 sheet kit	3M5515-KIT-ND	136.25	98044042616

Note: *For detailed specifications, please see our website.*

Vikuiti™ Durable Quick Clean Matte Film (DQC-M)

Vikuiti Durable Quick Clean Matte Film is an easy, cost-saving way to repair many types of LCD damage. The specially designed adhesive on Vikuiti DQC-M Film fills in most screen surface irregularities so they are virtually undetectable. DQC-M is a quick fix that will save you time and money over replacing the polarizer and/or the entire LCD module.

Description	Digi-Key Part No.	Price Each		3M Part No.
		1	10	
DQC-M, 12 in. x 9 in., 1 sheet	3M5516-ND	16.52	13.22	98044043721
DQC-M, 12 in. x 9 in., 50 sheet kit	3M5516-KIT-ND	619.50	—	98044043721

Note: *For detailed specifications, please see our website.*

Vikuiti™ Advanced Light Control Film (ALCF-P)

Vikuiti Advanced Light Control Film blocks out display screen views from the side while allowing unrestricted viewing to users in front. Seen from the right or left, the screen appears dark; seen from the front, the screen is bright and clear **Specifications**: • Sheet size: 12 inch x 11.5 inch • Sheet Thickness: 0.21 inch ±0.003 inch

Description	Digi-Key Part No.	Price Each	3M Part No.
ALCF-P, Gloss finish, 1 sheet	3M5517-ND	93.50	98044042640
ALCF-P, Gloss finish, 10 sheet kit	3M5517-KIT-ND	797.50	98044042640
ALCF-P, Matte finish, 1 sheet	3M5518-ND	115.60	98044042665
ALCF-P, Matte finish, 10 sheet kit	3M5518-KIT-ND	986.00	98044042665

Note: *For detailed specifications, please see our website.*

Notebook Privacy Computer Filters

Notebook privacy computer filters keep on-screen information private. From the side, others see a darkened screen, providing worry-free privacy.

Features: • No blurring or distorting screen images • Helps protect computer screen from scratches, fingerprints and damage • Improves contrast and reduces screen reflections • Easy on, easy off attachment method • Reversible – choose matte or gloss finish

Note: *For proper fit, do not include the plastic monitor or laptop frame in your measurement.*

Notebook / LCD Computer Filters

Filter Viewing Area H x W (Inch)	Fits Monitor Size (Inch)	Digi-Key Part No.	Price Each		3M Part No.
			1	10	
7.32 x 9.74	12.1	3M5588-ND	56.11	46.76	PF12.1
6.46 x 10.29	12.1	3M5589-ND‡	56.97	47.48	PF12.1W
7.99 x 10.63	13.3	3M5590-ND	57.82	48.18	PF13.3
8.44 x 11.25	14.1	3M5591-ND	59.53	49.61	PF14.1
7.50 x 11.99	14.1	3M5592-ND‡	60.39	50.33	PF14.1W
8.98 x 11.98	15.0	3M5593-ND	61.67	51.39	PF15.0
8.18 x 13.09	15.4	3M5594-ND‡	64.22	53.52	PF15.4W
10.64 x 13.3	17.0	3M5595-ND	86.46	73.75	PF17.0
9.06 x 14.47	17.0	3M5596-ND‡	93.11	79.42	PF17.0W
11.3 x 14.13	18.1	3M5597-ND	99.33	84.73	PF18.1
11.89 x 14.83	19.0	3M5598-ND	96.97	82.71	PF19.0

‡ Fits Widescreen Monitors

Desktop Monitor Filters — Gray Flat Frame

Filter Viewing Area H x W (Inch)	CRT Monitor Size (Inch)	LCD Monitor Size (Inch)	Digi-Key Part No.	Price Each		3M Part No.
				1	10	
8.56 x 11.58	13 ~ 15	—	3M5605-ND	118.90	101.42	PF500L
9.75 x 12.75	14 ~ 16	15	3M5599-ND	151.27	129.03	PF400L
9.75 x 12.75	14 ~ 16	15	3M5602-ND◊	151.27	129.03	PF400LB
11.5 x 14.13	16 ~ 19	17 ~ 18	3M5600-ND	251.36	219.94	PF400XL
11.5 x 14.13	16 ~ 19	17 ~ 18	3M5603-ND◊	251.36	219.94	PF400XLB
11.5 x 14.13	16 ~ 19	17 ~ 18	3M5606-ND	180.75	158.16	PF500XL
13 x 16	19 ~ 21	19 ~ 20	3M5601-ND	427.80	379.32	PF400XXL
13 x 16	19 ~ 21	19 ~ 20	3M5604-ND◊	427.80	379.32	PF400XXLB

◊ Black flat frame

Electromechanical Controls

Specifications: • Pressure/Temperature 250 psig @ 406°F (brass)

Vessel/Boss Thread	Terminal Housing Size W x D x H Inches (mm)	No. of Probes	Body Material	Digi-Key Part No.	Price Each			Gems Part No.
					1	10	100	
Series 3E - Conductive Switches								
2" NPT/ 1/2" NPT	3-1/4 x 3-1/4 x 2-3/8 (82.55 x 82.55 x 60.33)	2	Red Brass	376-1070-ND	114.97	91.86	80.77	3E2B
2-1/2" NPT/ 1/2" NPT		4	Red Brass	376-1072-ND	182.60	145.90	128.28	3E4B

Sensors – Flow Switches

Specifications: SPST-NO: 20VA, 120-240 VAC or VDC

Series	Housing	Piston	Spring	Switch Set Point - GPM	Switch	Port	Interface	Operating Temperature	Digi-Key Part No.	Price Each			Gems Part No.
										1	10	100	
FS-4 Piston Type, Molded Plastic Construction	Ryton® R4	316 Stainless Steel	316 Stainless Steel	0.1	SPST	9/16"-18 UNF	—	0°F ~ 225°F (17°C ~ 107°C)	376-1107-ND	64.95	52.60	49.50	122340

N

MicroTouch™ Capacitive Touch Screens and Accessories

ClearTek™ II Capacitive Touch Screens

Features: • Excellent light transmission of 91.5% (±1.5%) provides vibrant optical characteristics with optimal anti-glare properties • Resilient top coat provides smooth, easy glide surface while offering durable scratch resistance • Performance unaffected by everyday contaminants in the environment

Note: *For detailed specifications, please see our website.*

Size (Inch)	Flex Tail Length (Inch)	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
6.71	4	3M5519-ND	98.60	84.10	77.14	17-8091-203
	8	3M5747-ND	98.60	84.10	77.14	17-8091-205
8.75	4	3M5520-ND	102.00	87.00	79.80	17-8921-203
10.83	4	3M5521-ND	103.70	88.45	81.13	17-8021-203
	8	3M5744-ND	103.70	88.45	81.13	17-8021-205
12.31	4	3M5522-ND	125.80	107.30	98.42	17-8581-203
	8	3M5754-ND	125.80	107.30	98.42	17-8581-205
15.68	4	3M5523-ND	168.30	143.55	131.67	17-8031-203
	8	3M5745-ND	156.09	133.14	122.13	17-8031-205
17.54	4	3M5524-ND	174.40	152.60	141.70	17-8421-203
	8	3M5748-ND	176.80	150.80	138.32	17-8421-205
19.75	4	3M5525-ND	184.00	161.00	149.50	17-8511-203
	8	3M5752-ND	183.60	156.60	143.64	17-8511-205
20.65	4	3M5526-ND	192.00	168.00	156.00	17-8441-203
	8	3M5750-ND	198.90	169.65	155.61	17-8441-205
31.80	8	3M5527-ND	332.32	290.78	270.01	17-8951-205

Controllers

Interface	Sensor Support	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
EX II Capacitive Controllers						
USB	ClearTek II	3M9138-ND	66.71	56.90	52.19	EXII-7760UC
USB 1x2	ClearTek II	3M9137-ND	66.71	56.90	52.19	EXII-7769UC
Serial	ClearTek II	3M5540-ND	66.71	56.90	52.19	EXII-7720SC
MicroTouch SC Resistive Controllers						
USB	4-Wire	3M5541-ND	36.00	32.40	23.40	SC401U
Serial	4-Wire	3M5542-ND	36.00	32.40	23.40	SC402S
USB	5-Wire	3M5543-ND	36.00	32.40	23.40	SC501U
Serial	5-Wire	3M5544-ND	36.00	32.40	23.40	SC502S
USB	8-Wire	3M5545-ND	36.00	32.40	23.40	SC801U
Serial	8-Wire	3M5546-ND	36.00	32.40	23.40	SC802S
MicroTouch SC Series Resistive Chip Set						
—	—	3M5547-ND	20.00	18.00	13.00	SCX-ASIC

USB and Serial Cables

Description	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
SC Series Cables					
USB, 5 pin, 96” (Pearl)	3M5548-ND	18.00	16.20	11.70	7319420
Serial, 8 pin, 96” (Teal)	3M5549-ND	18.00	16.20	11.70	7319630
EX II Series Cables					
RS-232, 7 pin, 96” (Pearl)	3M5551-ND	14.00	12.60	9.10	7310101
USB, 5 pin, 96” (Pearl)	3M5552-ND	14.00	12.60	9.10	7312256
USB, 5 pin, 23” (Black)	3M5554-ND	16.00	14.40	10.40	7315050
Mounting Tape					
VHB, 3/8” x 36 yards	3M5550-ND	61.20	52.20	47.88	24736
NEW! Command™ Adhesive Strip NEW!					
.312” x 7.875”	3M9582-ND	11.25/8	101.25/80	180.00/160	98-0003-3222-5

ClearTek™ II Capacitive Touch Systems (with USB Controllers)

Size (Inch)	Flex Tail Length (Inch)	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
15.68	8	3M9127-ND	230.64	196.73	180.45	17-8031-226
17.54	8	3M9128-ND	248.20	211.70	194.18	17-8421-226
20.65	8	3M9129-ND	268.82	229.29	210.32	17-8441-226
19.75	8	3M9130-ND	255.37	217.82	199.80	17-8511-226
26.28	8	3M9131-ND	521.90	445.15	408.31	17-8931-226

Wide Aspect Ratio ClearTek™ II Capacitive Touch Systems (with USB Controllers)

Size (Inch)	Flex Tail Length (Inch)	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
17.80	8	3M9133-ND	248.20	211.70	194.18	17-9241-226
19.34	8	3M9134-ND	255.37	217.82	199.80	17-9251-226
20.65	8	3M9135-ND	268.82	229.29	210.32	17-9261-226
22.37	8	3M9136-ND	295.70	252.22	231.35	17-9311-226
31.80	8	3M9132-ND	458.32	390.92	358.57	17-8951-226

Infrared Touch Screens

E and K Series Infrared Touch Screens:

Infrared technology uses infrared emitter-collector pairs to project an invisible grid of light a small distance over the surface of the screen. When a beam is interrupted, the absence of the signal at the collector is detected and converted to an X/Y touch coordinate.

Features:

• Super Transparency • High Resolution (Interpolated 4096 x 4096) • Fast response time • Versatile Touch Object • No Drift • Scratch Resistant • Water/Dust Resistant (IP65) • Sunlight Operable • Integrated Controller • Wide Temperature Range (-40°C ~ 70°C) • Robust Design • Long Life Expectancy

Size (Inch)	Outside Dimensions W x H x D (mm)	Port	Active Area W x H (mm)	Digi-Key Part No.	Price Each				IRTOUCH Systems Part No.
					1	10	50	100	
E Series									
6.4	165.6 x 133 x 8.7	RS-232	130.6 x 98	653-1008-ND	91.80	86.40	81.00	75.60	E-64-C
	165.6 x 133 x 8.7	USB	130.6 x 98	653-1009-ND	91.80	86.40	81.00	75.60	E-64-U
6.5	169 x 136 x 9.1	RS-232	134 x 101	653-1010-ND	91.80	86.40	81.00	75.60	E-65-C
	169 x 136 x 9.1	USB	134 x 101	653-1011-ND	91.80	86.40	81.00	75.60	E-65-U
8.4	210.6 x 161.6 x 6.8	RS-232	171.6 x 128.6	653-1012-ND	117.50	110.60	103.68	96.77	E-84-C
	210.6 x 161.6 x 6.8	USB	171.6 x 128.6	653-1013-ND	117.50	110.60	103.68	96.77	E-84-U
10.4	244.2 x 191.4 x 6.8	RS-232	211.2 x 158.4	653-1014-ND	145.04	136.52	127.98	119.45	E-104-C
	244.2 x 191.4 x 6.8	USB	211.2 x 158.4	653-1015-ND	145.04	136.52	127.98	119.45	E-104-U
12.1	281.9 x 220.7 x 6.8	RS-232	246.4 x 185.2	653-1000-ND	163.40	153.80	144.18	134.57	E-12-C
	281.9 x 220.7 x 6.8	USB	246.4 x 185.2	653-1001-ND	163.40	153.80	144.18	134.57	E-12-U
15.1	342 x 266 x 6.8	RS-232	306 x 230	653-1002-ND	189.11	177.99	166.86	155.74	E-15-C
	342 x 266 x 6.8	USB	306 x 230	653-1003-ND	189.11	177.99	166.86	155.74	E-15-U
17	376 x 308 x 6.8	RS-232	340 x 272	653-1004-ND	212.98	200.45	187.92	175.40	E-17-C
	376 x 308 x 6.8	USB	340 x 272	653-1005-ND	212.98	200.45	187.92	175.40	E-17-U
19	414 x 339 x 6.8	RS-232	378 x 303	653-1006-ND	251.53	236.74	221.94	207.15	E-19-C
	414 x 339 x 6.8	USB	378 x 303	653-1007-ND	251.53	236.74	221.94	207.15	E-19-U
K Series - Side Mount									
12	327. 2 x 237.2 x 10.3	RS-232	246 x 185	653-1016-ND	189.11	177.99	166.86	155.74	K-12-C
	327. 2 x 237.2 x 10.3	USB	246 x 185	653-1017-ND	189.11	177.99	166.86	155.74	K-12-U
15	395 x 283.2 x 10.3	RS-232	307 x 231	653-1018-ND	218.48	205.64	192.78	179.93	K-15-C
	395 x 283.2 x 10.3	USB	307 x 231	653-1019-ND	218.48	205.64	192.78	179.93	K-15-U
17	429.2 x 331.2 x 11.0	RS-232	338.5 x 271	653-1020-ND	244.19	229.83	215.46	201.10	K-17-C
	429.2 x 331.2 x 11.0	USB	338.5 x 271	653-1021-ND	244.19	229.83	215.46	201.10	K-17-U
19	460.2 x 352.1 x 11.0	RS-232	376.1 x 301.1	653-1022-ND	290.09	273.03	255.96	238.90	K-19-C

NEW! Resistive Touch Screens

5-Wire, 4-Wire and Digital Solutions

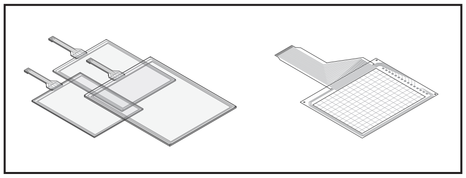

NKK's transparent touch screens are engineered to complement the application of choice while offering superior durability and flexibility. With options in multiple sizes, and choices of input by finger, gloved finger or stylus, NKK maintains a consistent focus on impeccable quality and value added solutions with the diverse needs of customers at the forefront.

Whether an application requires the 5- or 4-Wire technology, the features include metal tails (analog), contact reliability with a connector, and ANR film, eliminating many of the typical visual artifacts. The film surface is non-glare and hard coated for ease of use and integrity of the surface.

Additional benefits of NKK's 5-Wire touch screens include: • Screens highly resistant to static electricity and noise pollution • Drift-free operation despite any temperature fluctuation • Greater touch point density translating to more precision and reduction of false actuations • Quicker response time

Screen Size (Inches)	Key Area Dimensions (mm)	External Dimensions (mm)	Digi-Key Part No.	Price Each	NKK Part No.
5-Wire Touch Screens					
10.4	215.9 x 163.9	236.5 x 183.3	360-2440-ND	87.19	FTAS00-104A5
12.1	249.0 x 187.2	267.1 x 205.8	360-2441-ND	105.18	FTAS00-121A5
15.0	306.1 x 230.1	324.8 x 248.7	360-2442-ND	150.48	FTAS00-150A5
4-Wire Touch Screens					
5.7	115.2 x 86.4	131.0 x 101.0	360-2445-ND	41.04	FTAS00-57AS4
6.5	132.0 x 99.0	150.0 x 116.0	360-2446-ND	50.32	FTAS00-65AS4
8.4	170.9 x 129.6	186.5 x 144.4	360-2447-ND	59.04	FTAS00-84AS4
Digital Touch Screen					
5.7	115.2 x 86.04	140.0 x 113.0	360-2450-ND	50.32	FTAS225-57AN
Controller Boards					
Controller Board for 5-Wire USB			360-2443-ND	79.80	FTCU05B
Controller Board for 5-Wire RS232C			360-2444-ND	79.80	FTCS05B
Controller Board for 4-Wire USB			360-2448-ND	79.80	FTCU04B
Controller Board for 4-Wire RS232C			360-2449-ND	79.80	FTCS04B
Accessories					
Receptacle Connector with code connects to RS232C communication of the controller boards			360-2451-ND	12.60	AT713
Receptacle Connector with code to connect to power source of the control boards			360-2452-ND	11.04	AT714

5-Wire and 4-Wire Resistive Touch Screens

5-Wire Resistive Touch Screens:

The Bergquist 5-Wire Resistive Touch Screens are inherently the most durable resistive touch screens on the market, engineered to withstand high-usage environments. Unlike other resistive technologies that use two opposing layers to create X- and Y- axis measurements (such as 4-wire and 8-wire technologies), 5-wire sensors utilize a stable glass substrate for both X- and Y- axis measurements. **Features:** • Durability: 35 Million actuations/ Drift-free operation at all times • Accuracy: 98.5% accurate - without external electronic correction • Actuation: Any finger, glove or stylus • Optics: Index-matched materials provide 81% light transmission and patented spacer dot design • Warranty: All 5-wire touch screens come with a 5-year warranty

4-Wire Resistive Touch Screens:

Bergquist offers a full line of optimized 4-Wire resistive touch screens. Standard size offerings are available, as well as custom solutions to ensure a cost effective solution for any application. Bergquist optimized 4-Wire resistive technology solutions are rated for 10 million single point activations and feature enhanced coatings to increase brightness and reduce reflection. **Features:** • High resolution • Not effected by dirt and water • Low cost • Low power consumption • Durability: 10 Million single point activations • Actuation: finger, touch stylus, or gloved hand • Warranty: 1-year limited warranty

Touch Screen Starter Kit

Contains: • Touch Screen Controller • RS-232 and USB Cable • Software and Drivers • 110V Power Supply • Documentation and Manuals • Plastic Case • Storage space for touch screen

Note: *Appropriate touch screen must be purchased separately*

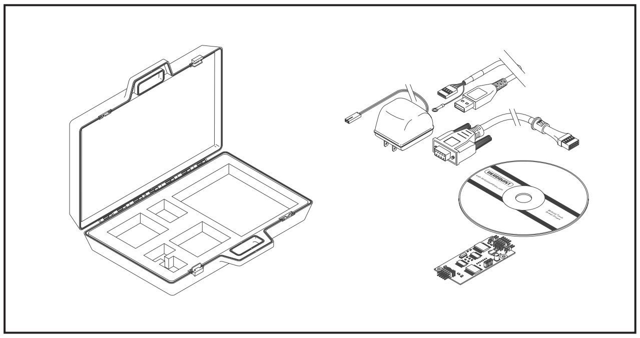

Size (Inches)	Outside Dimensions (mm)	Active Area (mm)	Digi-Key Part No.	Price Each	Bergquist Part No.
5-Wire Touch Screens — RoHS Compliant					
3.5	84.04 x 64.5	72.04 x 54.28	BER256-ND	28.75	400333
6.4	150.0 x 115.5	130.6 x 98.4	BER250-ND	50.00	400395
7.0	170.1 x 106.3	154.40 x 92.1	BER255-ND	51.25	400397
8.4	196.09 x 149.86	171.4 x 128.8	BER251-ND	52.50	400399
10.4	248.92 x 186.69	215.9 x 163.83	BER252-ND	57.50	400401
12.1	271.27 x 205.74	248.87 x 187.4	BER248-ND	67.50	400403
12.1	271.27 x 205.74	248.87 x 187.4	BER249-ND	73.75	400404
15.0	322.0 x 245.5	303.5 x 227.5	BER247-ND	81.25	400384
19.2	401.0 x 323.40	381.0 x 305.7	BER254-ND	128.75	400392
4-Wire Touch Screens — RoHS Compliant					
3.9	91.3 x 72.0	79.0 x 58.0	BER273-ND	27.50	400425
4.4	104.9 x 66.6	96.1 x 54.9	BER274-ND	36.25	400437
5.7	132.5 x 104.7	116.17 x 87.37	BER275-ND	43.75	400426
6.4	146.3 x 114.55	130 x 97.5	BER276-ND	47.50	400427
7.0	166 x 100	155 x 88	BER277-ND	48.75	400434
8.5	188.9 x 141.7	172 x 129.5	BER278-ND	50.00	400428
10.4	225.21 x 171.59	211.07 x 158.5	BER279-ND	60.00	400429
12.1	266.6 x 204	246 x 185	BER280-ND	70.00	400431
15.0	330 x 254	304.1 x 228.1	BER281-ND	80.00	400433
Accessories					
6' Cable RS-232 for Touch Screen			BER242-ND	9.35	400196
6' Cable USB for Touch Screen			BER243-ND	9.35	400199
Power Supply for Touch Screen			BER244-ND	13.60	400294
Kit — RoHS Compliant					
Starter Kit for Touch Screen			BER245-ND	87.50	400293

◆ ***RoHS Compliant***

TFT LCD Displays **Normal Display White**

Size (Inches)	Pixel Format★	Outline Dimensions - mm W x H x D	Brightness (cd/m2)	Contrast Ratio	Viewing Angle		Total Power Typical (W)	Operating Temperature (°C)	Type	Digi-Key Part No.	Price Each			Sharp Part No.
					Vertical†	Horizontal					1	10	100	
3.8	240 x 320	69.0 x 88.6 x 3.4	90	8/75	100/100	100	0.52	0 ~ 50	QVGA	425-2649-ND◆	214.13	187.09	152.15	LQ038Q7DB03R
3.8	320 x 240	117.6 x 69.45 x 13.45	450	100	—	130	3.36	-30 ~ 85	QVGA	425-2484-ND	360.53	314.99	256.17	LQ038Q5DR01
5.0	320 x 240	119.4 x 89.1 x 12.7	380	—	—	130	4.15	-30 ~ 85	QVGA	425-2485-ND	531.88	425.50	351.04	LQ050Q5DR01
8.0	640 x 480	183.0 x 141.0 x 14.0	380	250	65/55	130	6.20	0 ~ 55	VGA	425-2489-ND	498.49	435.52	354.19	LQ080V3DG01
8.4	800 x 600	199.5 x 149.5 x 11.6	350	250	30/65	110	6.02	-10 ~ 65	SVGA	425-2491-ND◆	561.55	490.62	399.00	LQ084S3DG01
12.1	800 x 600	276.0 x 209.0 x 11.0	350	300	50/60	140	8.02	-10 ~ 65	SVGA	425-2474-ND	523.39	457.28	371.89	LQ121S1LG41
15.0	1024 x 768	331.6 x 254.76 x 12.5	600	350	55/45	120	15.49	0 ~ 60	XGA	425-2475-ND	848.13	678.50	559.77	LQ150X1LGB1

◆ ***RoHS Compliant*** ★ 1 Pixel = R+G+B dots † Vertical Viewing Angle 12 o'clock and 6 o'clock

OPTREX

Graphic LCD Modules

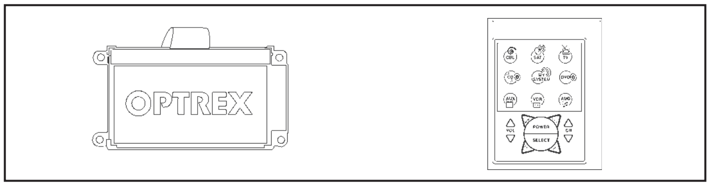

The Graphic LCD Modules come in a wide variety of sizes and formats that will satisfy virtually any application.

They range from monochrome to full color (RGB) display modules.

Diag. Size (Inch)	LCD Mode	Dot Format	Dot Pitch (mm)	Outline Dimensions W x H x D (mm)	Viewing Area (mm)	Backlight	Lumin-ance	Contrast Ratio	Operating Temperature	Digi-Key Part No.	Price Each 1	Price Each 10	Optrex Part No.
Color Transmissive Graphic Displays													
3.8	Color	240 x RGB x 320	0.24 x 0.24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	45:1	0°C ~ 50°C	73-1238-ND	110.38	88.92	F-51373GNC-FW-AH
3.8	Color	240 x RGB x 320	0.24 x 0.24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	40:1	0°C ~ 50°C	73-1312-ND◆	121.12	96.89	F-51373GNC-FW-ATN
3.8	Color	240 x RGB x 320	0.24 x 0.24	73 x 94.4 x 7.3	59 x 80.3	White LED	40	40:1	0°C ~ 50°C	73-1313-ND◆	76.04	—	F-51373GNC-LW-AUN
Monochrome Transmissive Graphic Displays — RoHS Compliant													
2.8	Blue/White	128 x 64	0.48 x 0.48	89.7 x 49.8 x 6	66.8 x 35.5	Blue/White LED	100	6:1	0°C ~ 50°C	73-1285-ND	18.21	—	F-51320GNB-LW-AEN
2.8	Blue/White	128 x 64	0.50 x 0.50	89.7 x 49.8 x 6	66.8 x 35.5	White LED	100	8:1	-20°C ~ 70°C	73-1284-ND	17.51	—	F-51553GNBJ-LW-AEN
2.8	Yellow/Dark Blue	128 x 64	0.50 x 0.50	89.7 x 49.8 x 11.8	66.8 x 35.5	Yellow LED	60	4.5:1	0°C ~ 50°C	73-1311-ND	16.23	—	F-51320GNY-LY-AFN
2.8	Black/Red	128 x 64	0.50 x 0.50	89.7 x 49.8 x 11.8	69 x 36.5	Red LED	100	60:1	-20°C ~ 70°C	73-1271-ND	34.40	27.71	F-51852GNFQJ-LR-AGN
2.8	Black/White	128 x 64	0.50 x 0.50	89.7 x 49.8 x 6.0	69 x 36.5	Blue LED	—	60:1	-20°C ~ 70°C	73-1330-ND	22.02	—	F-51852GNFQJ-LB-AIN
2.8	Black/White	128 x 64	0.50 x 0.50	89.7 x 49.8 x 6.0	69 x 36.5	Green LED	—	60:1	-20°C ~ 70°C	73-1331-ND	19.51	—	F-51852GNFQJ-LG-ALN
4.7	Black/White	320 x 240	0.30 x 0.30	129.4 x 94 x 10	99.9 x 77	White LED	280	20:1	0°C ~ 50°C	73-1317-ND	119.55	95.64	F-51477GNF-LW-ANN
5.2	Blue/White	240 x 64	0.53 x 0.53	149.5 x 51.7 x 9.8	130.2 x 36.7	White LED	400†	5:1	0°C ~ 50°C	73-1314-ND	33.93	—	F-51405GNB-LW-ANN
5.2	Black/White	240 x 64	0.53 x 0.53	135.2 x 51.7 x 9.8	130.2 x 37.6	White LED	100	60:1	-20°C ~ 70°C	73-1265-ND	49.15	—	F-51851GNFQJ-LW-AAN
5.2	Black/Blue	240 x 64	0.53 x 0.53	135.2 x 51.7 x 9.8	130.2 x 37.6	Blue LED	100	60:1	-20°C ~ 70°C	73-1263-ND	76.94	61.56	F-51851GNFQJ-LB-ABN
5.2	Black/Yellow	240 x 64	0.53 x 0.53	135.2 x 51.7 x 9.8	130.2 x 37.6	Yellow LED	70	60:1	-20°C ~ 70°C	73-1266-ND	64.53	53.78	F-51851GNFQJ-LY-ADN
5.4	Blue/White	240 x 128	0.50 x 0.50	170 x 95 x 16.7	126 x 70	Yellow/Green LED	40	6:1	0°C ~ 50°C	73-1199-ND	181.14	144.96	DMF-50773NF-SLY
5.4	Blue/White	240 x 128	0.50 x 0.50	170 x 95 x 16.7	126 x 70	Yellow/Green LED	40	6:1	0°C ~ 50°C	73-1307-ND	109.96	—	DMF-50773NF-SLY-AKN
9.4	Black/White	640 x 480	0.30 x 0.30	260 x 174 x 8.5	196 x 148	CCFL	110	14:1	0°C ~ 50°C	73-1315-ND	227.19	—	F-51430NFU-FW-AEN
Monochrome Transflective Graphic Displays — RoHS Compliant													
4.7	Black/Winter White	160 x 128	0.58 x 0.58	129 x 102 x 13.5	108.6 x 82.55	White LED	40	4.5:1	-20°C ~ 70°C	73-1273-ND‡	68.42	—	F-51854GNFJ-SLW-ABN
5.2	Black/Winter White	240 x 64	0.53 x 0.53	135.2 x 51.7 x 9.8	130.2 x 37.6	White LED	40	4.5:1	-20°C ~ 70°C	73-1262-ND‡	51.74	41.38	F-51851GNFJ-SLW-AEN

† At backlight surface ◆ ***RoHS Compliant*** ‡ Highly reflective background

TFT LCD Modules

RoHS COMPLIANT

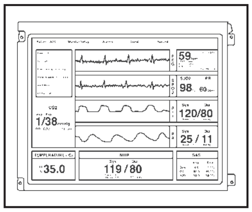

Size (Inch)	Dot Format	Dimensions W x H x D (mm)	Inter-face	Lumin-ance	Contrast Ratio	Vertical Viewing Angle	Horizontal Viewing Angle	Operating Temperature	Digi-Key Part No.	Price Each	Optrex Part No.
3.5	320 x RGB x 240	79 x 65 x 3.2	CMOS	400	700:1	±80	±80	-20°C ~ 70°C	73-1335-ND	32.71	T-55343GD035JU-LW-ADN
3.5	320 x RGB x 240	79 x 65 x 3.2	CMOS	400	700:1	±80	±80	-20°C ~ 70°C	73-1339-ND‡	40.86	T-55343GD035JU-LW-AEN
5.0	800 x RGB x 480	118.5 x 77.8 x 3.5	CMOS	400	500:1	-45/65	±65	-20°C ~ 70°C	73-1336-ND	103.71	T-55382GD050JU-LW-A-ABN
5.7	320 x RGB x 240	144 x 104.6 x 13.5	CMOS	500	350:1	±70	±70	-20°C ~ 70°C	73-1337-ND	89.93	T-55265GD057J-LW-ABN
6.5	640 x RGB x 480	158 x 120.36 x 11.55	CMOS	400	300:1	-60/30	±55	-25°C ~ 75°C	73-1322-ND	199.65	T-51750GD065J-FW-ADN
6.5	640 x RGB x 480	158 x 120.36 x 10.75	CMOS	400	300:1	-60/30	±55	-25°C ~ 75°C	73-1320-ND	235.81	T-51750GD065J-FW-AFN
6.5	640 x RGB x 480	158 x 120.36 x 10.75	CMOS	750	300:1	-60/30	±55	-25°C ~ 75°C	73-1333-ND	203.43	T-51750GD065J-LW-AON
8.4	1024 x RGB x 768	205 x 152.4 x 11.3	LVDS	300	400:1	-50/60	±65	-20°C ~ 70°C	73-1276-ND†	391.49	T-51639D084JU-FW-A-AB
10.4	640 x RGB x 480	241 x 181.6 x 16	CMOS	1500	700:1	-65/65	±70	-20°C ~ 70°C	73-1334-ND†	412.23	T-55334GD104J-FW-A-AAN
12.1	1280 x RGB x 800	283 x 185.1 x 19.4	LVDS	400	500:1	-65/70	±75	-20°C ~ 70°C	73-1338-ND†	403.94	T-55312D121J-FW-A-ABN
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	400	350:1	-80/70	±85	-20°C ~ 70°C	73-1279-ND†	524.05	T-51863D150J-FW-A-AD

† Natural Color Matrix (NCM) Technology ‡ 4-Wire Touch Screen

Character LCD Modules

RoHS COMPLIANT

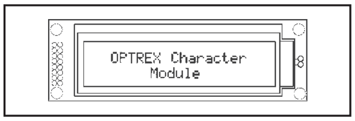

Optrex Character Displays:
Optrex offers the broadest range of monochrome character LCD modules in a wide range of dot pixel formats and color/background combinations in industry-standard configurations. Ideal for handheld meters and other devices requiring a clear alpha-numeric display, they provide high contrast, wide operating temperature ranges, low operating current, and more luminance per watt.

Positive (*transflective*) types and negative (*transmissive*) types utilizing Optrex's High Performance Color technology are available.

Dot Format	LCD Mode	Character Format	Outline Dimensions W x H x D (mm)	Viewing Area (mm)	Backlight	Lumin-ance‡	Contrast Ratio	Operating Temperature	Digi-Key Part No.	Price Each 1	Price Each 10	Optrex Part No.
Super-Twisted Nematic (STN) LCD Modules with Led Backlighting												
16 x 1	Yellow/Dark Blue	5 x 8	80 x 36 x 15	64.5 x 13	Yellow LED	80	8:1	0°C ~ 50°C	73-1292-ND	14.14	—	DMC-16105NY-LY-ANN
16 x 2	Yellow/Dark Blue	5 x 8	88 x 34 x 16.1	59.5 x 16	Yellow LED	35	8:1	0°C ~ 50°C	73-1287-ND	12.53	—	DMC-16205NY-LY-BGN
16 x 2	Yellow/Dark Blue	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow LED	70	8:1	0°C ~ 50°C	73-1296-ND	23.90	19.26	DMC-16230NY-LY-DQE-EDN
Transmissive Character Displays												
16 x 2	Yellow/Dark Blue	5 x 8	84 x 45 x 15.1	61 x 16	Yellow LED	55	10:1	0°C ~ 50°C	73-1293-ND	17.91	14.33	DMC-16202NY-LY-AZE-BJN
16 x 2	Yellow	5 x 8	84 x 45 x 15.1	61 x 16	Yellow/Green LED	55	10:1	0°C ~ 50°C	73-1346-ND ***NEW!***	17.23	14.06	DMC-16202NY-LY-BJE-BLN
16 x 2	Yellow/Dark Blue	5 x 7	122 x 44 x 14.6	99 x 24	Yellow LED	60	12:1	0°C ~ 50°C	73-1297-ND	27.60	22.08	DMC-16230NY-LY-DZE-EEN
16 x 2	Yellow	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow/Green LED	70	8:1	0°C ~ 50°C	73-1347-ND ***NEW!***	25.23	20.59	DMC-16230NY-LY-EDE-EFN
16 x 2	Yellow	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow/Green LED	60	12:1	0°C ~ 50°C	73-1348-ND ***NEW!***	26.54	21.66	DMC-16230NY-LY-EEE-EGN
16 x 2	Black/White	5 x 8	122 x 44 x 14.6	99.6 x 24.5	White LED	70	60:1	-20°C ~ 70°C	73-1254-ND	20.18	—	C-51848NFQJ-LW-AAN
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	5:1	-20°C ~ 70°C	73-1299-ND	20.94	16.75	DMC-20261NYJ-CDE-CKN
20 x 2	Yellow	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow/Green LED	40	5:1	0°C ~ 50°C	73-1344-ND ***NEW!***	13.39	—	DMC-20261NYJ-LY-CKE-CNN
20 x 2	Yellow	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow/Green LED	40	12:1	0°C ~ 50°C	73-1345-ND ***NEW!***	14.32	—	DMC-20261NY-LY-CME-CPN
20 x 2	Neutral/Blue	5 x 8	116 x 37 x 15.6	83 x 18.6	Blue LED	38	80:1	-20°C ~ 70°C	73-1289-ND	16.04	—	C-51505NFQJ-LB-AJN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	80:1	-20°C ~ 70°C	73-1291-ND	16.30	—	C-51505NFQJ-LW-ALN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	Green LED	160	80:1	-20°C ~ 70°C	73-1290-ND	15.81	—	C-51505NFQJ-LG-AKN
20 x 4	Yellow	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow/Green LED	60	8:1	0°C ~ 50°C	73-1343-ND ***NEW!***	20.16	—	DMC-20481NY-LY-BJE-BMN
20 x 4	Yellow	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow/Green LED	60	12:1	0°C ~ 50°C	73-1342-ND ***NEW!***	20.25	—	DMC-20481NY-LY-BKE-BNN
20 x 4	Black/White	5 x 8	98.5 x 61 x 15.6	76 x 25.2	White LED	70	60:1	-20°C ~ 70°C	73-1251-ND	18.56	—	C-51847NFQJ-LW-AAN
40 x 2	Yellow/Dark Blue	5 x 8	182 x 34.5 x 15.1	147.5 x 11.5	Yellow LED	55	12:1	0°C ~ 50°C	73-1302-ND	38.53	31.44	DMC-40202NY-LY-ARE-AZN
40 x 2	Yellow	5 x 8	182 x 34.5 x 15.1	152.5 x 16.5	Yellow/Green LED	55	12:1	0°C ~ 50°C	73-1341-ND ***NEW!***	25.61	—	DMC-40202NY-LY-AZE-BDN
40 x 2	Black/White	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	White LED	70	60:1	-20°C ~ 70°C	73-1260-ND	29.12	—	C-51850NFQJ-LW-AAN
40 x 4	Yellow/Dark Blue	5 x 8	190 x 54 x 13.6	147 x 29.5	Yellow LED	50	5:1	0°C ~ 50°C	73-1303-ND	54.12	—	DMC-40457NY-LY-B-CKN
Transflective Character Display												
16 x 2	Winter White/Black	5 x 8	122 x 44 x 14.6	99.6 x 24.5	LED	40	5:1	-20°C ~ 70°C	73-1252-ND◊	15.79	—	C-51848NFJ-SLW-ADN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	5:1	-20°C ~ 70°C	73-1288-ND	14.21	—	C-51505NFJ-SLW-AIN
20 x 4	Winter White/Black	5 x 8	98.5 x 61 x 15.6	76 x 25.2	LED	40	5:1	-20°C ~ 70°C	73-1249-ND◊	17.72	—	C-51847NFJ-SLW-ADN
40 x 2	Winter White/Black	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	LED	40	5:1	-20°C ~ 70°C	73-1258-ND◊	25.88	—	C-51850NFJ-SLW-ADN

‡ Luminance measured at backlight surface ◊ Highly reflective background

OPTREX

TFT LCD ToolKITs™

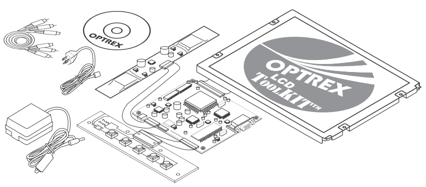

ToolKITs Include:
- TFT Panel
- Controller Board
- Backlight Inverter
- Inverter Cable
- Power Supply
- VGA Cable
- Video Input Cable
- CD-ROM

Note:
ToolKITs support VGA, composite video, and S-video interfaces

Description	Digi-Key Part No.	Price Each	Optrex Part No.
8.4” XGA LCD ToolKIT	73-1281-ND	834.92	TK084X00-001
8.4” VGA LCD ToolKIT	73-1319-ND◆	766.27	TK084V01
15.0” XGA LCD ToolKIT	73-1340-ND◆ ***NEW!***	936.95	TK150X03-002

◆ ***RoHS Compliant***

Amulet Technologies

Human Interface Electronics

4.3” GEMmodule™ (MK-480272C): It is a fully integrated 4.3” WQVGA production color display module to support a variety of embedded control interface applications. Featuring the Amulet GEM Graphical OS Chip™ for color displays, the module supports GIF, JPEG and PNG graphic formats in 24-bit color, plus 8-bit alpha blending found in high-end consumer electronic products.
GEM Starter Kit - Color (STK-480272C): The kit provides everything needed to create and drive a color GUI display, including a 480 x 272 TFT display, an integrated touch panel and controller board, downloadable compiler software, a 5VDC power supply, stylus, and USB PC interface cable.
3.8” Starter Kit (STK-GT380): The kit includes a 3.8” module QVGA monochrome display with a six ultrabright LED backlight, a fully integrated analog touch panel, and integrated Amulet Compiler Software, a serial cable, stylus, and 5VDC power supply.
5.7” On-Board Starter Kit (STK-AOB3202405): The Starter Kit includes a 5.7” Amulet-on-Board Module with integrated touch screen and LED backlight. In addition, you will receive the Amulet compiler software, serial cable, program interface board, 5V power supply and stylus.
GEMexpress™ Universal TFT/OLED Driver PCBA (GCC-1): A fast, inexpensive production solution for adding a graphic user interface to an embedded product. GEMexpress allows for greater design flexibility and a shorter time to market.
Graphical OS Chip™ for Color Displays (AGB75LC04-QU-E): The GUI processor for color displays enables OEMs and design firms to take their products to the next level by implementing interactive, color-rich GUIs designed in dynamic HTML.

Description	Digi-Key Part No.	Price Each	Amulet Technologies Part No.
4.3” GEMmodule	681-1018-ND◆ ***NEW!***	219.00	MK-480272C
GEM Starter Kit - Color	681-1016-ND◆	299.00	STK-480272C
3.8” Module Starter Kit	681-1000-ND◆	259.00	STK-GT380
5.7” Onboard Module Starter Kit	681-1001-ND◆	279.00	STK-AOB3202405
3.8” Kit Module with FSTN Monochrome, Black on White Display	681-1015-ND	189.00	MK-GT380N
3.8” Kit Module with FSTN Transflective Display	681-1003-ND	189.00	MK-GT380T
5.7” Onboard Module STN Blue Negative	681-1004-ND◆	199.00	MK-AOB3202405B
5.7” Onboard Module FSTN Positive Transflective	681-1005-ND◆	199.00	MK-AOB3202405T
5.7” Onboard Module FSTN Negative Transmissive	681-1006-ND◆	199.00	MK-AOB3202405N
GEMexpress Universal TFT/OLED Driver PCBA	681-1019-ND◆ ***NEW!***	110.00	GCC-1
Program Interface Board	681-1007-ND	30.00	PIB-1
Bezel Kit for MK-AOB3202405x	681-1012-ND◆	24.95	BZ-AOB5
IC Graphical OS Chip 80-PQFP	681-1013-ND◆	16.00	AGB64LV01-QC-E
Graphical OS Chip for Color Displays	681-1017-ND◆	19.90	AGB75LC04-QU-E
Pen Stylus	681-1014-ND◆	6.00	7010001

◆ ***RoHS Compliant***

DIGITALVIEW®

LCD Controller Boards and Accessories

Digital View is the leading supplier of advanced interface solutions for the flat panel display market.

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Digital View Part No.
Controller Boards — RoHS Compliant					
ALR-1400 PC,DVI Controller for TFT Panel	586-1016-ND	131.67	—	—	417100041-3
SP-1600 PC, DVI Controller for TFT Panel	586-1019-ND	263.34	—	—	4169900XX-3
DVS-1600 PC, DVI Controller for TFT Panel	586-1021-ND	184.87	—	—	4171400XX-3
SVH-1920 PC, DVI Controller for TFT Panel	586-1026-ND	365.75	—	—	4169600XX-3
DVI-2560 DVI Controller for TFT Panel	586-1027-ND	166.25	—	—	4171300XX-3
Accessories					
Add-on Board for LVDS Displays	586-1020-ND◆	61.18	—	—	416212201-3
Add-on Board for LVDS Displays	586-1002-ND	61.18	—	—	4162135-XX
Add-on Board for LVDS Displays	586-1025-ND◆	39.90	—	—	416470210-3
Network Device IP-50 with Ethernet and RS-232 Interface	586-1052-ND◆	200.00	150.00	125.00	586013600-3
JST Inverter Cable	586-1033-ND◆	10.00	7.50	6.25	426058900-3
4-Way JST AUX Power Cable	586-1029-ND◆	10.00	7.50	6.25	420680840-3
Cable for Controller ACG-1024 (4167202-xx)	586-1009-ND◆	44.00	33.00	29.70	426311200-3
Cable for Controller ACG-1024 (4167201-xx)	586-1010-ND◆	38.00	28.50	25.65	426311600
460mm Cable for TTL Panel	586-1050-ND◆	48.00	36.00	30.00	426500800-3
460mm Cable for LVDS Panel	586-1040-ND◆	44.00	33.00	27.50	426491400-3
460mm Cable for LVDS Panel	586-1041-ND◆	44.00	33.00	27.50	426491600-3
460mm Cable for LVDS Panel	586-1042-ND◆	40.00	30.00	25.00	426491700-3
460mm Cable for LVDS Panel	586-1043-ND◆	50.00	37.50	31.25	426491900-3
460mm Cable for LVDS Panel	586-1044-ND◆	40.00	30.00	25.00	426492200-3
460mm Cable for LVDS Panel	586-1045-ND◆	46.00	34.50	28.75	426492400-3
460mm Cable for LVDS Panel	586-1046-ND◆	40.00	30.00	25.00	426492500-3
460mm Cable for LVDS Panel	586-1047-ND◆	44.00	33.00	27.50	426493000-3
460mm Cable for LVDS Panel	586-1048-ND◆	32.00	24.00	20.00	426493800-3
460mm Cable for LVDS Panel	586-1049-ND◆	22.00	16.50	13.75	426494200-3
LVDS Cable	586-1014-ND◆	28.00	21.00	18.90	426474300-3
LVDS Cable	586-1037-ND◆	38.00	28.50	23.75	426471900-3
Panel Cable for NL128102AC28-04 30 25	586-1038-ND	24.00	18.00	15.96	426472100
Panel Cable for NL128102AC28-04 20 20	586-1039-ND	22.00	16.50	14.63	426472200
Panel Cable for Controller SVH-1920 (4263112-00)	586-1017-ND◆	40.00	30.00	27.00	426500400-3
Panel Cable for Controller SVH-1920 (4263116-00)	586-1018-ND◆	40.00	30.00	27.00	426500500-3
HD-1000 Single Channel Adapter for SVH-1920	586-1023-ND◆	390.00	292.50	243.75	4160134XX-3
HD-2000 2-Channel Adapter for SVH-1920	586-1024-ND◆	518.00	388.50	323.75	4160133XX-3
Flying Lead Cable for AUX Power Connector	586-1032-ND◆	10.00	7.50	6.25	426040200-3
160mm Cable with 2-Flying Leads for SVH-1920	586-1030-ND◆	12.00	9.00	7.50	426013600-3
160mm Cable with 4-Flying Leads for SVH-1920	586-1031-ND◆	14.00	10.50	8.75	426013700-3
RS232 Serial Input Cable	586-1034-ND◆	12.00	9.00	7.50	426090200-3
150mm OSD Cable	586-1028-ND◆	10.00	7.50	6.25	420680260-3
300mm OSD Cable	586-1035-ND◆	10.00	7.50	6.25	426120400-3
610mm OSD Cable	586-1036-ND◆	30.00	22.50	18.75	426120410-3
Kits — RoHS Compliant					
OSD Digital Button Board Kit	586-1022-ND	48.00	36.00	30.00	KIT 60110-3
OSD Kit with Vertical Membrane Switch, Interface Board and 6” Cable	586-1053-ND	64.00	48.00	40.00	KIT 60121-3
OSD Kit with Horizontal Membrane Switch, Interface Board and 6” Cable	586-1054-ND	64.00	48.00	40.00	KIT 60125-3
OSD Kit with Vertical Membrane Switch, Interface Board and 12” Cable	586-1055-ND	64.00	48.00	40.00	KIT 60131-3

◆ ***RoHS Compliant***

VARITRONIX

LCDs

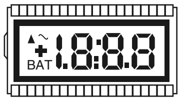

Electrical/Optical Character	Static	HV†	Units
Operating Temperature Range	-10° ~ 60°	10° ~ 60°	C
Operational Voltage, RMS	3.0	3.9 ~ 4.7	V-RMS
Drive Frequency	30~300	60~300	Hz
Current Consumption	15	15	nA/mm²
Turn-On Time	120	80	ms
Turn-Off Time	100	80	ms

Reflective and Transflective (Transflective Denoted by "FC" in Varitronix Part No.)

Features: • Long Life/High Reliability • Excellent Optical Quality • High Contrast Ratio • Wide Viewing Angle • Large Useful Viewing Area • Fast Response • Low Power Consumption

Format	No. Of Digits	Digit Size (mm)	Type (mm)	Conn. No. Of Pins	Dual Row Spacing (mm)	Driver ICs (Not Included) (Applies to both P/N)	Matching Bezel‡	Digi-Key Part No.	Price Each			Varitronix Part No.
									1	5	10	
7 Segment Displays												
	2	12.70	2.54 Dip	18	30.50	4543B(2)	PRD180LPW-ND	153-1003-ND	2.88	2.67	2.39	VI-201-DP-RC-S
	2	12.70	2.54 Dip	18	30.50	4543B(2)	PRD180LPW-ND	153-1002-ND◊	2.88	2.67	2.39	VI-201-DP-FC-S
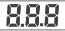	3	8.89	2.54 Dip	24	22.86	OKI MSM58292, HD61603	N/A	153-1101-ND◆	4.20	3.89	3.49	VI-321-DP-RC-S
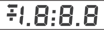	3.5	8.89	2.54 Dip	40	25.40	IC7106	N/A	153-1134-ND◆	3.22	2.98	2.68	VI-301-DP-RC-S
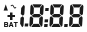	3.5	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1005-ND◆	3.88	3.59	3.22	VI-322-DP-RC-S
	3.5	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1004-ND◊	4.92	4.56	4.09	VI-322-DP-FC-S
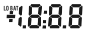	3.5	12.70	2.54 Dip	40	30.50	4543B(4)	PRD180LP-ND	153-1023-ND◆	4.92	4.56	4.09	VI-302-DP-RC-S
	3.5	12.70	2.54 Dip	40	30.50	4543B(4)	PRD180LP-ND	153-1022-ND◊	4.92	4.56	4.09	VI-302-DP-FC-S
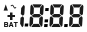	3.5	17.80	2.54 Dip	40	38.00	4543B(4)	N/A	153-1015-ND	10.88	10.07	9.03	VI-319-DP-RC-S
	3.5	17.80	2.54 Dip	40	38.00	4543B(4)	N/A	153-1014-ND◊	10.88	10.07	9.03	VI-319-DP-FC-S
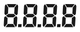	4	12.70	2.54 Dip	20	30.48	—	PRD180LP-ND	153-1046-ND◆†	4.54	4.20	3.77	VIM-404-DP-RC-S-H
	4	12.70	2.54 Dip	20	30.48	—	PRD180LP-ND	153-1047-ND†◊	4.54	4.20	3.77	VIM-404-DP-FC-S-HV
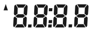	4	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1007-ND◆	4.92	4.56	4.09	VI-422-DP-RC-S
	4	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1006-ND◊	4.92	4.56	4.09	VI-422-DP-FC-S
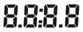	4	8.89	2.54 Dip	40	22.86	—	N/A	153-1102-ND◆	3.22	2.98	2.68	VI-401-DP-RC-S
	4	12.70	2.54 Dip	40	30.50	HD61603	N/A	153-1103-ND◆	3.88	3.59	3.22	VI-402-DP-FC-S
	4	12.70	2.54 Dip	40	30.50	HD61603	N/A	153-1104-ND◆	4.18	3.87	3.47	VI-402-DP-FH-W
	4	12.70	2.54 Dip	40	25.40	—	N/A	153-1135-ND◆	3.88	3.59	3.22	VI-402-DP-RC-S
	4	17.80	2.54 Dip	40	38.10	—	N/A	153-1105-ND◆	8.44	7.81	7.01	VI-415-DP-FH-W
	4	17.80	2.54 Dip	40	38.10	4543B(4)	N/A	153-1017-ND	10.24	9.48	8.50	VI-415-DP-RC-S
	4	17.80	2.54 Dip	40	38.10	4543B(4)	N/A	153-1016-ND◊	10.24	9.48	8.50	VI-415-DP-FC-S
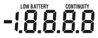	4.5	10.16	2.54 Dip	30	30.48	ICL7129A	PRD180LP-ND	153-1054-ND†	4.38	4.06	3.64	VIM-503-DP-RC-S-HV
	4.5	10.16	2.54 Dip	30	30.48	ICL7129A	PRD180LP-ND	153-1055-ND†◊	4.38	4.06	3.64	VIM-503-DP-FC-S-HV
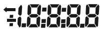	4.5	10.20	2.54 Dip	40	30.50	4543B(5)	PRD180LP-ND	153-1009-ND	4.92	4.56	4.09	VI-502-DP-RC-S
	4.5	10.20	2.54 Dip	40	30.50	4543B(5)	PRD180LP-ND	153-1008-ND◊	4.92	4.56	4.09	VI-502-DP-FC-S
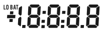	4.5	10.20	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1025-ND	4.92	4.56	4.09	VI-509-DP-RC-S
	4.5	10.20	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1024-ND◊	4.92	4.56	4.09	VI-509-DP-FC-S
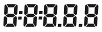	5	10.16	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1019-ND◆	4.92	4.56	4.09	VI-508-DP-RC-S
	5	10.16	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1018-ND◊	4.92	4.56	4.09	VI-508-DP-FC-S
	5	10.16	2.54 Dip	40	30.48	—	N/A	153-1106-ND◆	4.18	3.87	3.47	VI-508-DP-FH-W
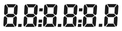	6	12.70	2.54 Dip	50	30.48	4543B(6)	PRD250LP-ND	153-1011-ND◆	7.46	6.90	6.20	VI-602-DP-RC-S
	6	12.70	2.54 Dip	50	30.48	4543B(6)	PRD250LP-ND	153-1010-ND◊	7.46	6.90	6.20	VI-602-DP-FC-S
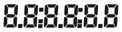	6	17.80	2.54 Dip	50	38.10	4543B(6)	N/A	153-1021-ND	14.94	13.82	12.40	VI-607-DP-RC-S
	6	17.80	2.54 Dip	50	38.10	4543B(6)	N/A	153-1020-ND◊	14.94	13.82	12.40	VI-607-DP-FC-S
	6	25.40	2.54 Dip	70	45.72	—	N/A	153-1108-ND◆	20.10	18.60	16.69	VI-611-DP-FH-W
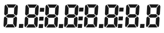	8	12.70	2.54 Dip	42	30.48	—	PRD360LP-ND	153-1056-ND◆†	11.30	10.46	9.38	VIM-808-DP-RC-S-HV
	8	12.70	2.54 Dip	42	30.48	—	PRD360LP-ND	153-1057-ND†◊	11.30	10.46	9.38	VIM-808-DP-FC-S-HV
Alphanumeric Displays — RoHS Compliant												
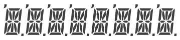	8	7.00	2.54 Dip	36	22.00	—	N/A	153-1113-ND	2.92	2.71	2.43	VIM-878-DP-FC-S-LV
	8	7.00	2.54 Dip	36	22.00	—	N/A	153-1114-ND	2.92	2.71	2.43	VIM-878-DP-RC-S-HV
	8	7.00	2.54 Dip	36	22.00	—	N/A	153-1115-ND	2.92	2.71	2.43	VIM-878-DP-RC-S-LV
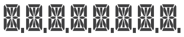	8	9.00	2.54 Dip	36	25.00	—	N/A	153-1110-ND	4.74	4.39	3.94	VIM-828-DP13.2-RC-S-LV
	8	9.00	2.54 Dip	36	25.00	—	N/A	153-1111-ND	5.14	4.76	4.27	VIM-828-DP5.7-6-HV-RH-W

◆ ***RoHS Compliant*** ‡ Bezels can be found under PRD Plastics in the manufacturer index. † Multiplexed Display ◊ Transflective

Backlight For Transflective LCDs

Overall Size (mm) L x W x H	Active Size (mm) LE x WE	Forward Current mA at 4.1V		Digi-Key Part No.	Price Each			Varitronix Part No.
		Typical	Maximum		1	5	10	
56.3 x 19.5 x 3.5	49 x 12	70	140	153-1026-ND	7.30	6.76	6.06	LED4-16264
75 x 26.6 x 3.8	60 x 22	135	270	153-1027-ND	11.20	10.36	9.30	LED4-20464B
94 x 24 x 4	84 x 19	180	360	153-1028-ND	9.50	8.79	7.89	LED4-20265
110 x 28 x 4.8	101 x 23	—	420	153-1132-ND	5.80	5.37	4.82	KIT-LED-06
70 x 20.5 x 4.1	64 x 17.5	90	—	153-1133-ND◆	4.00	3.70	3.32	LED4G-16265

◆ ***RoHS Compliant***

VARITRONIX LCD Modules

Features: Character Format: 5 x 8 dot. All the LCD's listed use a SAMSUNG controller P/N KS0066.

Display Format	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
Supertwist LCD Module — RoHS Compliant													
8 x 2	Top	33.7 x 44.4 x 10	26.5 x 12.2	2.10 x 3.39	.38 x .38	-5 ~ 50	-20 ~ 60	5	153-1130-ND	10.00	9.25	8.30	MDLS-82603-LV-G
Supertwist LCD Module with LED Backlighting													
16 x 2	Top	53 x 20 x 8	36 x 10	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1116-ND	14.90	13.79	12.37	MDLS-16263-C-LV-G-LED01G-FFC
20 x 2	Top	65 x 20 x 8	46 x 10	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1123-ND◆	23.70	21.93	19.68	MDLS-20263-C-LV-G-LED01G
20 x 2	L. Side	116 x 37 x 11	83 x 18.6	3.2 x 5.55	.60 x .65	-20 ~ 70	-30 ~ 80	5	153-1124-ND	32.00	29.60	26.56	MDLS-20265-HT-HV-FSTN-LEDW
20 x 4	Top	77 x 47 x 13	60 x 22	2.3 x 4.03	.42 x .46	-5 ~ 50	-20 ~ 60	5	153-1126-ND◆	36.00	33.30	29.88	MDLS-20464B-LV-G-LED04G
40 x 2	Top	108 x 20 x 12	89 x 10	1.85 x 3.15	.33 x .35	-20 ~ 70	-30 ~ 80	5	153-1129-ND◆	49.00	45.33	40.67	MDLS-40263-C-HT-HV-FSTN-LED3G

◆ ***RoHS Compliant***

MATRIX ORBITAL Serial/I^{2}C LCD, VFD and PLED Displays

RoHS COMPLIANT

Specifications:

Standard Voltage: 4.75V ~ 5.25V **LCD Type:** • Covers most of the popular LCD configurations. Control of these modules has been simplified to a set of commands delivered to the modules via RS232 and I^{2}C communications protocols. **VFD Type:** • Brightest of all displays • Performance is not affected by temperature. **PLED Type:** • Self-luminous displays that do not require backlighting • Use much less power than a traditional LCD or VFD • 160-degree viewing angle

Additional options for increased voltage and higher operating temperatures are available. For pricing, options and availability, visit our website.

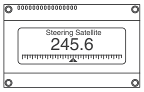

Display Format	Type	Background Color	Text Color	Viewing Area (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	50	Matrix Orbital Part No.
8 x 2	LCD	Yellow/Green	Black	38.0 x 16.0	0°C ~ 50°C	635-1009-ND	39.95	38.03	LCD0821
16 x 2	LCD	Yellow/Green	Black	64.5 x 15.5	0°C ~ 50°C	635-1010-ND	49.95	47.51	LK162-12
	LCD	Cool Blue	Blue	64.5 x 15.5	0°C ~ 50°C	635-1011-ND	49.95	47.51	LK162-12-GW
	LCD	Blue	White	64.5 x 15.5	0°C ~ 50°C	635-1012-ND	49.95	47.51	LK162-12-WB
	LCD	Black	Red	64.5 x 15.5	0°C ~ 50°C	635-1013-ND	49.95	47.51	LK162-12-R
	VFD	—	Blue/Green	51.4 x 11.4	-20°C ~ 70°C	635-1014-ND	85.99	79.13	VK162-12
20 x 2	LCD	Yellow/Green	Black	83.0 x 18.6	0°C ~ 50°C	635-1016-ND	59.95	54.61	LK202-25
	LCD	Cool Blue	Blue	83.0 x 18.6	0°C ~ 50°C	635-1017-ND	59.49	54.61	LK202-25-GW
	LCD	Blue	White	83.0 x 18.6	0°C ~ 50°C	635-1018-ND	59.95	54.61	LK202-25-WB
	LCD	Black	Yellow	83.0 x 18.6	0°C ~ 50°C	635-1028-ND	59.95	54.61	LK202-25-IY
	VFD	—	Blue/Green	89.8 x 11.5	-20°C ~ 70°C	635-1020-ND	89.95	83.66	VK202-25
20 x 4	LCD	Yellow/Green	Black	76.0 x 25.2	0°C ~ 50°C	635-1022-ND	74.65	62.70	LK204-25
	LCD	Cool Blue	Blue	76.0 x 25.2	0°C ~ 50°C	635-1023-ND	69.95	66.14	LK204-25-GW
	LCD	Blue	White	76.0 x 25.2	0°C ~ 50°C	635-1024-ND	69.95	68.02	LK204-25-WB
	LCD	Black	Yellow	76.0 x 25.2	0°C ~ 50°C	635-1029-ND	69.95	66.14	LK204-25-IY
	LCD	Black	Red	76.0 x 25.2	0°C ~ 50°C	635-1025-ND	69.95	66.14	LK204-25-R
	VFD	—	Blue/Green	70.8 x 20.9	-20°C ~ 70°C	635-1026-ND	125.00	119.34	VK204-25

Serial/I^{2}C Graphic Displays

Additional options for increased voltage and higher operating temperatures are available. For pricing, options and availability, visit our website.

RoHS COMPLIANT

Control of these modules has been simplified to a set of commands delivered to the modules via RS232 and I^{2}C communications protocols.

Specifications: Standard Voltage: 4.75V ~ 5.25V

Features: • Download fonts of any size, style or language • Create graphics using bitmaps, pixels, lines, rectangles and bar graphs

MATRIX ORBIT
Fast and easy to use

Display Format	Type	Background Color	Text Color	Viewing Area (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	50	Matrix Orbital Part No.
122 x 32	LCD	Blue	White	60.2 x 18.0	0°C ~ 50°C	635-1001-ND	74.95	68.45	GLK12232-25-SM-WB
	LCD	White	Black	76.0 x 25.2	0°C ~ 50°C	635-1030-ND	79.95	78.01	GLK12232-25-FGW
240 x 64	LCD	Yellow/Green	Black	132.0 x 39.0	0°C ~ 50°C	635-1003-ND	169.50	—	GLK24064-25
	LCD	White	Grey	132.0 x 39.0	0°C ~ 50°C	635-1004-ND	169.50	154.28	GLK24064-25-GW
240 x 128	LCD	White	Grey	114.0 x 64.0	0°C ~ 50°C	635-1007-ND	195.95	186.16	GLK240128-25-GW
	LCD	Blue	White	114.0 x 64.0	0°C ~ 50°C	635-1008-ND	195.95	186.16	GLK240128-25-WB

NEW! DevDevil Boards

RoHS COMPLIANT

DevDevil is a product development board that provides all of the functionality of an alphanumeric display in a project development friendly package. The DevDevil opens the door to a world of exciting display possibilities.

Features:

- 5x5 Keypad Matrix input
- Mini-USB onboard connector with USB cable
- Six general purpose outputs (GPOs) or 6 LEDs
- Dallas one wire support
- Seven physical buttons
- One 20x2 or 20x4 LCD display

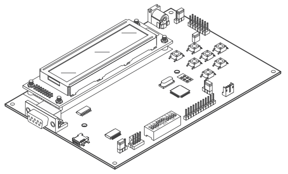

Description	Digi-Key Part No.	Price Each	Matrix Orbital Part No.
20x4 Display, White Text Blue Background	635-1032-ND	129.95	DD-DB1-AL204A-WB
20x4 Display, Yellow/Green Text Black Background	635-1033-ND	129.95	DD-DB1-AL204A-IY
20x4 Display, Gray Text White Background	635-1034-ND	129.95	DD-DB1-AL204A-GW
20x4 Display, Black Text Yellow/Green Background	635-1035-ND	129.95	DD-DB1-AL204A
20x2 Display, White Text Blue Background	635-1036-ND	99.95	DD-DB1-AL202C-WB
20x2 Display, Red Text Black Background	635-1037-ND	99.95	DD-DB1-AL202C-IR
20x2 Display, Gray Text White Background	635-1038-ND	99.95	DD-DB1-AL202C-GW
20x2 Display, White Text Black Background	635-1039-ND	99.95	DD-DB1-AL202C-FW
20x2 Display, Blue Text Black Background	635-1040-ND	99.95	DD-DB1-AL202C-FB
20x2 Display, Black Text Yellow/Green Background	635-1041-ND	99.95	DD-DB1-AL202C
	Accessories		
AC Power Adapter and 4' Serial Cable Kit	635-1031-ND	9.95	DD-PASC-PKG

NEWHAVEN DISPLAY INTERNATIONAL

LCD TFTs

Features:

• 8 and 16 bit digital interfaces • Available with or without controllers • Wide viewing angle • Wide operating temperature • Fast response time • High brightness LED backlights

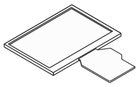

Diagonal Size	Dimensions W x H x D (mm)	Interface	Luminance (cd/m2)	Contrast Ratio	Vertical Viewing Angle °	Horizontal Viewing Angle °	Digi-Key Part No.	Price Each
1.8	34.0 x 47.0 x 2.4	8/16 Bit	2800	250	35	45	NHD-1.8-128160YF-CTXI#-ND	13.39
1.8	34.0 x 47.0 x 2.65	8 Bit	120	250	15	45	NHD-1.8-128160ZF-CTXL#-ND ***NEW!***	19.50
2.4	42.72 x 60.26 x 2.45	8/16 Bit	350	250	35	45	NHD-2.4-240320SF-CTXI#-ND ***NEW!***	30.00
2.4	42.72 x 60.26 x 3.60	8/16 Bit	350	250	35	45	NHD-2.4-240320SF-CTXI#-T-ND† ***NEW!***	33.00
2.4	42.72 x 60.26 x 3.8	16 Bit Digital	3200	250	35	45	NHD-2.4-240320YF-CTXI#-T-1-ND†	35.50
3.5	76.90 x 63.90 x 2.80	24 Bit	300	350	40	60	NHD-3.5-320240MF-ATXL#-1-ND ***NEW!***	34.00
3.5	76.90 x 63.90 x 2.80	24 Bit	300	350	40	60	NHD-3.5-320240MF-ATXL#-T-1-ND† ***NEW!***	37.00
4.3	105.5 x 67.2 x 4.95	24 Bit	280	500	60	80	NHD-4.3-480272YF-ATXI#-T-ND†	79.90
4.3	105.5 x 67.2 x 3.80	24 Bit	380	400	50	90	NHD-4.3-480272MF-ATXI#-1-ND ***NEW!***	45.00
4.3	105.5 x 67.2 x 4.05	24 Bit	380	400	50	90	NHD-4.3-480272MF-ATXI#-T-1-ND† ***NEW!***	49.00
5.7	149.0 x 109.0 x 7.0	8-Bit	250	400	50	60	NHD-5.7-320240WFB-CTXI#-1-ND ***NEW!***	49.00

† With Touch Panel

LCD Character Modules

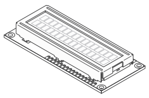

Features:

• 5 x 8 character format • Different backlight color options • 8-bit or 4-bit interface • STN or FSTN, 12:00 or 6:00 viewing angle • 3V Power Supply

Format	LCD Mode	Type	Module Size W x H (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Operating Temperature °C	Digi-Key Part No.	Price Each
Transflective								
2 x 16	STN-Gray / YG	Serial	80.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216B3Z-FL-GBW-ND	19.95
2 x 16	STN-Gray / YG	Serial	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K3Z-FL-GBW-ND	19.75
2 x 16	STN-Gray / YG	Serial	122.0 x 44.0	99.0 x 24.0	5.2 x 9.55	-20 ~ 70	NHD-0216S3Z-FL-GBW-ND	22.30
2 x 20	STN-Gray / YG	Serial	116.0 x 37.0	83.0 x 18.6	3.2 x 5.55	-20 ~ 70	NHD-0220D3Z-FL-GBW-ND	22.20
4 x 20	STN-Gray / YG	Serial	98.0 x 60.0	76.0 x 25.2	2.95 x 4.75	-20 ~ 70	NHD-0420D3Z-FL-GBW-ND	24.90
1 x 8	STN-Gray / White	Character	60.7 x 33.85	51.2 x 14.7	5.02 x 7.28	-20 ~ 70	NHD-0108HZ-FSW-GBW-ND	8.50
1 x 8	STN-Gray / White	Character	69.0 x 27.0	45.2 x 13.8	4.2 x 7.71	-20 ~ 70	NHD-0108CZ-FSW-GBW-3V3-ND ***NEW!***	8.75
1 x 8	STN-YG / YG	Character	84.0 x 44.0	64.5 x 16.4	6.45 x 10.75	-20 ~ 70	NHD-0108FZ-FL-YBW-3V3-ND ***NEW!***	9.00
2 x 8	STN-Gray / YG	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FL-GBW-ND	9.55
2 x 8	STN-YG / YG	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FL-YBW-ND	9.50
2 x 8	STN-Gray / White	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FSW-GBW-3V3-ND ***NEW!***	9.80
2 x 8	STN-Gray / White	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FSW-GBW-3V3-ND ***NEW!***	9.80
2 x 8	STN-Gray / YG	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FL-GBW-ND	9.85
2 x 8	STN-YG / YG	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FL-YBW-ND	9.75
2 x 12	STN-Gray / YG	Character	55.7 x 32.0	46.0 x 14.5	2.65 x 5.50	-20 ~ 70	NHD-0212WH-AYGH-JT#-ND	9.50
2 x 16	STN-YG / YG	Character	84.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216BZ-FL-YBW-ND	10.00
2 x 16	FSTN+ / White	Character	65.5 x 36.7	54.0 x 14.4	2.55 x 4.99	-20 ~ 70	NHD-0216HZ-FSW-FBW-3V3C-ND ***NEW!***	11.60
2 x 16	STN-YG / YG	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-FL-YBW-ND	10.50
2 x 16	FSTN+ / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-FS(RGB)-FBW-REV1-ND ***NEW!***	14.50
2 x 16	STN-YG / YG	Character	122.0 x 44.0	99.0 x 24.0	5.2 x 9.55	-20 ~ 70	NHD-0216SZ-FL-YBW-ND	20.50
2 x 16	STN-Gray / White	Character	80.0 x 36.0	64.5 x 13.8	3.00 x 5.23	-20 ~ 70	NHD-0216XZ-FSW-GBW-ND ***NEW!***	11.00
2 x 20	STN-YG / YG	Character	116.0 x 37.0	83.0 x 18.6	3.2 x 5.95	-20 ~ 70	NHD-0220DZ-FL-YBW-ND	18.00
2 x 20	STN-Gray / White	Character	65.0 x 20.0	46.0 x 10.8	1.85 x 3.23	-20 ~ 70	NHD-0220FZ-FSW-GBW-P-3V3-ND ***NEW!***	10.90
2 x 20	STN-Gray / Blue	Character	182.0 x 60.0	147.0 x 35.2	5.9 x 12.7	-20 ~ 70	NHD-0220JZ-FSB-GBW-ND ***NEW!***	29.60
2 x 20	STN-Gray / Green	Character	182.0 x 60.0	147.0 x 35.2	5.9 x 12.7	-20 ~ 70	NHD-0220JZ-FSPG-GBW-ND ***NEW!***	29.60
2 x 20	STN-Gray / White	Character	146.0 x 43.0	123.0 x 22.0	4.84 x 9.22	-20 ~ 70	NHD-0220WH-MTGH-JT#E-ND	24.25
2 x 24	STN-Gray / White	Character	102.5 x 36.0	94.5 x 18.0	3.20 x 5.55	-20 ~ 70	NHD-0224AZ-FSW-GBW-ND ***NEW!***	15.00
2 x 24	STN-Gray / YG	Character	116.0 x 29.4	83.0 x 18.6	2.70 x 5.55	-20 ~ 70	NHD-0224BZ-FL-GBW-ND ***NEW!***	13.60
2 x 24	FSTN+ YG / White	Character	116.0 x 37.0	83.0 x 18.6	2.70 x 5.55	-20 ~ 70	NHD-0224BZ1-FSW-FBW-ND ***NEW!***	15.00
4 x 20	STN-Gray / White	Character	77.0 x 47.0	60.0 x 22.0	2.30 x 4.03	-20 ~ 70	NHD-0420AZ-FSW-GBW-3V3-ND ***NEW!***	19.10
4 x 20	STN-YG / YG	Character	98.0 x 60.0	76.0 x 25.2	2.95 x 4.75	-20 ~ 70	NHD-0420DZ-FL-YBW-3V3-ND	21.95
4 x 20	STN-Gray / White	Character	146.0 x 62.5	123.0 x 42.5	4.84 x 9.22	-20 ~ 70	NHD-0420E2Z-FSW-GBW-ND ***NEW!***	28.20
4 x 20	STN-Gray / YG	Character	79.0 x 36.0	60.0 x 28.0	2.35 x 5.15	-20 ~ 70	NHD-0420H1Z-FL-GBW-3V3-ND	17.70
4 x 40	FSTN+ / White	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440WH-ATFH-JT#-ND ***NEW!***	28.60
2 x 16	STN-Gray / No B/L	COG	49.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216AZ-FN-GBW-ND	9.11
2 x 16	STN-Gray / White	COG	54.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216AZ-FSW-GBW-ND ***NEW!***	10.11
2 x 16	FSTN+ / No B/L	COG	49.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CIZ-FN-FBW-3V-ND ***NEW!***	9.10
2 x 16	FSTN+ / White	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CIZ-FSW-FBW-3V3-ND ***NEW!***	10.25
2 x 16	STN-Gray / No B/L	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CU-FN-GBW-3V-ND	9.00
2 x 16	STN-Gray / White	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CU-FSW-GBW-3V3-ND ***NEW!***	10.15
2 x 20	FSTN+ / White	COG	74.5 x 25.0	61.0 x 15.1	2.45 x 5.55	0 ~ 50	NHD-C0220AU-FSW-FTS-ND	10.25
2 x 20	FSTN+ / White	COG	74.5 x 25.0	61.0 x 15.1	2.45 x 5.55	-20 ~ 70	NHD-C0220AZ-FSW-FTW-ND	10.20
Transmissive								
2 x 16	FSTN- / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NS(RGB)-FBW-ND	14.75
2 x 16	FSTN- / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NS(RGB)-FBW-REV1-ND ***NEW!***	14.75
2 x 16	STN-Blue / White	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NSW-BBW-L-ND	11.70
2 x 16	STN-Blue / White	Serial	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K3Z-NSW-BBW-ND ***NEW!***	20.75
2 x 16	STN-Blue / White	Character	126.0 x 44.0	99.5 x 24.5	4.84 x 8.06	-20 ~ 70	NHD-0216SZ-NSW-BBW-ND	21.70
2 x 20	STN-Blue / White	Character	116.0 x 37.0	83.0 x 18.6	3.2 x 5.95	-20 ~ 70	NHD-0220DZ-NSW-BBW-ND	19.30
2 x 20	STN-Blue / White	Serial	116.0 x 37.0	83.0 x 18.6	3.2 x 5.55	-20 ~ 70	NHD-0220D3Z-NSW-BBW-ND ***NEW!***	23.20
2 x 24	FSTN- / White	Character	118.0 x 36.0	94.5 x 16.0	3.20 x 5.55	-20 ~ 70	NHD-0224WH-ATDI-JT#-ND ***NEW!***	23.94
4 x 20	STN-Blue / White	Character	146.0 x 62.5	123 x 42.5	4.84 x 9.22	-20 ~ 70	NHD-0420E2Z-NSW-BBW-ND	28.20
4 x 40	STN-Blue / White	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440WH-ATMI-JT#-ND ***NEW!***	28.10
Reflective								
1 x 8	STN-YG / No B/L	Character	53.0 x 24.2	35.0 x 12.6	3.4 x 7.1	-20 ~ 70	NHD-0108BZ-RN-YBW-ND ***NEW!***	7.55
1 x 8	STN-YG / No B/L	Character	53.0 x 24.2	35.0 x 12.6	3.4 x 7.1	-20 ~ 70	NHD-0108BZ-RN-YBW-3V-ND ***NEW!***	7.55
2 x 8	STN-YG / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-YBW-ND	8.25
2 x 8	STN-YG / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-YBW-3V-ND ***NEW!***	8.25
2 x 8	STN-Gray / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-GBW-ND ***NEW!***	8.30
2 x 8	STN-Gray / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-GBW-ND	8.35
2 x 8	STN-YG / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-YBW-ND	8.30
2 x 8	STN-YG / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-YBW-3V-ND ***NEW!***	8.30
2 x 16	STN-YG / No B/L	Character	84.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216BZ-RN-YBW-ND	8.75
4 x 40	FSTN+ / No B/L	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440AZ-RN-FBW-ND ***NEW!***	24.00

NEWHAVEN DISPLAY
INTERNATIONAL

LCD Graphic Modules

Features:

Graphic: • Bitmap graphics • LED or CCFL backlights • STN Blue, Gray or FSTN positive or negative • Built-in controllers • Touch panels available for QVGAs • 12:00 or 6:00 viewing angles

COG: • Monochrome graphic format • Super low power consumption • LED backlight available

Fig. 1

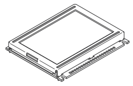

Fig. 2

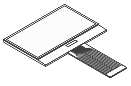

Fig.	Format	LCD Mode	Type	Module Size W x H (mm)	Viewing Area W x H (mm)	Operating Temperature (°C)	Digi-Key Part No.	Price Each
Transflective								
1	2 x 16	FSTN+/White	COG	41.4 x 24.3	37.6 x 12.8	-20 ~ 70	NHD-C0216CZ-FSW-FBW-3V3-ND	11.05
	122 x 32	STN-YG/YG	Graphic	80.0 x 36.0	60.0 x 18.0	-20 ~ 70	NHD-12232WG-EYYH-V#A-ND	16.00
	122 x 32	STN-Gray/White	Graphic	84.0 x 44.0	64.0 x 17.9	-20 ~ 70	NHD-12232AZ-FSW-GBW-ND ***NEW!***	15.50
	128 x 32	FSTN+/White	COG	41.4 x 24.3	36.0 x 12.0	-20 ~ 70	NHD-C12832A1Z-FSW-FBW-3V3-ND	10.75
	128 x 64	STN-Gray/White	Graphic	63.2 x 52.2	54 x 36	-20 ~ 70	NHD-12864MZ-FSW-GBW-L-ND	25.00
	128 x 64	STN-Gray/White	Graphic	75.0 x 52.7	60.0 x 32.6	-20 ~ 70	NHD-12864WG-BTGH-T#N-ND	26.00
	128 x 64	FSTN+/White	Graphic	75.0 x 52.7	60.0 x 32.6	-20 ~ 70	NHD-12864WG-BTFH-V#N-ND ***NEW!***	25.50
	128 x 64	STN-Gray/White	Graphic	87.0 x 70.0	72.0 x 40.0	-20 ~ 70	NHD-12864WG-FTGH-VZ#-ND ***NEW!***	38.00
	160 x 32	STN-YG/YG	Graphic	114 x 40	92 x 22	-20 ~ 70	NHD-16032AZ-FL-YBW-ND	19.75
	160 x 128	STN-Blue/White	Graphic	129.0 x 102.0	101.0 x 82.0	-20 ~ 70	NHD-160128WG-BTMI-VZ#-1-ND	66.52
	240 x 64	FSTN+/SuperBright White	Graphic	180.0 x 65.0	133.0 x 39.0	-20 ~ 70	NHD-24064WG-ASFH-VZ#-ND	59.00
	240 x 128	STN-Gray/White	Graphic	144.0 x 104.0	114.0 x 64.0	-20 ~ 70	NHD-240128WG-BTGH-VZ#-ND ***NEW!***	79.74
	240 x 128	STN-Gray/YG	Graphic	144.0 x 104.0	114.0 x 64.0	-20 ~ 70	NHD-240128WG-BYGH-VZ#000C-ND	78.74
	320 x 240	FSTN+/ White	Graphic	94.7 x 71.7	81.4 x 61.0	-20 ~ 70	NHD-320240WX-COTFH-V#I040-ND ***NEW!***	72.50
	320 x 240	FSTN+/ White	Graphic	94.7 x 83.3	81.4 x 61.0	-20 ~ 70	NHD-320240WX-COTFH-V#I041-ND ***NEW!***	73.00
	320 x 240	FSTN+/ White	Graphic	148.02 x 120.24	120.14 x 92.14	-20 ~ 70	NHD-320240WG-COTFH-VZ#-010-80-ND ***NEW!***	94.70
2	128 x 64	STN-Gray/White	COG	71.3 x 54.9	65.5 x 40.0	-20 ~ 70	NHD-C12864CZ-FSW-GBW-ND	16.50
	128 x 64	FSTN+/White	COG	102.0 x 70.0	86.6 x 46.3	-20 ~ 70	NHD-C12864EZ-FSW-FTW-3V3P-ND ***NEW!***	25.00
	128 x 64	FSTN+/White	COG	86.0 x 40.0	58.0 x 28.8	-20 ~ 70	NHD-C12864WM-09-FSW-FBW-3V3-M-ND ***NEW!***	15.90
	128 x 64	FSTN+/White	Graphic	38.0 x 26.4	29.58 x 17.98	-20 ~ 70	NHD-12864WX-T1TFH#-ND ***NEW!***	16.60
	128 x 65	STN-Gray/White	COG	59.0 x 42.0	52.6 x 27.0	-20 ~ 70	NHD-C12865AZ-FSW-GBW-ND	15.00
	128 x 65	STN-Gray/White	COG	66.3 x 49.8	60.1 x 34.5	-20 ~ 70	NHD-C12865BZ-FSW-GBW-ND	18.00
	128 x 128	STN-Gray/White	COG	71.3 x 75.4	65.5 x 60.5	-20 ~ 70	NHD-C128128BZ-FSW-GBW-ND	28.00
	160 x 100	FSTN+/White	COG	49.2 x 45.0	47.0 x 33.39	-20 ~ 70	NHD-C160100DIZ-FSW-FBW-ND	18.55
Transmissive								
1	2 x 16	STN-Blue Negative/White	COG	41.4 x 24.3	37.6 x 12.8	-20 ~ 70	NHD-C0216CZ-NSW-BBW-3V3-ND	10.80
	122 x 32	STN-Blue/White	Graphic	83.53 x 27.5	60.5 x 18.5	-20 ~ 70	NHD-12232KZ-NSW-BBW-P-ND	16.50
	128 x 32	STN-Blue/White	COG	41.4 x 24.3	36.0 x 12.0	-20 ~ 70	NHD-C12832A1Z-NSW-BBW-3V3-ND	10.75
	128 x 64	STN-Blue/White	Graphic	93.0 x 70.0	72.0 x 40.0	-20 ~ 70	NHD-12864AZ-NSW-BBW-TR-ND	27.75
	128 x 64	STN-Blue/White	Graphic	75.0 x 52.7	60.0 x 32.6	-20 ~ 70	NHD-12864WG-BTMI-V#N-ND	25.50
	240 x 64	STN-Blue/SuperBright White	Graphic	180.0 x 65.0	133.0 x 39.0	-20 ~ 70	NHD-24064WG-ATMI-VZ#-ND	48.34
	240 x 128	STN-Blue/White	Graphic	93.0 x 65.0	72.0 x 40.0	-20 ~ 70	NHD-240128BZ-NSW-BTW-ND	46.50
	240 x 128	FSTN-Negative/White	Graphic	170.0 x 103.5	132.0 x 76.0	-20 ~ 70	NHD-240128WG-AFTI-VZ#C5-ND ***NEW!***	83.39
	240 x 128	STN-Negative Blue/White	Graphic	170.0 x 93.4	128.0 x 75.0	-20 ~ 70	NHD-240128WG-ATMI-VZ#-ND ***NEW!***	83.00
	240 x 128	STN-Blue/White	Graphic	144.0 x 104.0	114.0 x 64.0	-20 ~ 70	NHD-240128WG-BTMI-VZ#-ND	79.94
2	128 x 64	STN-Blue/White	COG	69.85 x 42.93	59.0 x 30.5	-20 ~ 70	NHD-C12864MZ-NSW-BTW-ND ***NEW!***	16.50
Reflective								
2	128 x 64	FSTN+/No B/L	COG	48.0 x 36.0	44.0 x 24.0	-20 ~ 70	NHD-C12864B2Z-RN-FBW-ND	12.05
	128 x 65	STN-Gray/No B/L	COG	57.0 x 39.4	52.6 x 27.0	-20 ~ 70	NHD-C12865AZ-RN-GBW-ND	9.50
	160 x 100	STN-Gray/No B/L	COG	41.50 x 36.00	38.50 x 25.20	-10 ~ 60	NHD-C160100AZ-RN-GBW-ND	13.75

NEW! Accessories

Size	Dimensions W x H x D (mm)	Description	Digi-Key Part No.	Price Each
5.7" Diagonal	140.0 x 104.0 x 1.4	Touch Panel for 320 x 240 graphic LCD and 5.7" TFT	TS-320240BRBO-ND	21.50
66.52 x 33.24mm	82.0 x 50.2 x .95	Touch Panel for 128 x 64 graphic LCD	NHD-TS-12864ARNB#-ND	13.83
59.0 x 44.2mm	71.35 x 55.0 x 1.1	Touch Panel for 128 x 64 graphic LCD	NHD-TS-12864CRNA#-ND	14.25
108.0 x 57.6mm	128.0 x 74.0 x 1.5	Touch Panel for 240 x 128 graphic LCD	NHD-TS-240128BRNA#-ND	18.04
—	210mm	Flat Flex Cable, 16 pin, 1.0mm pitch	16 POS FFC-ND	2.00
—	200mm	Flat Flex Cable, 20 pin, 1.0mm pitch	20 POS FFC-ND	2.00
—	52 x 40	PCB Adapter 16 pin, 1mm FFC-Thruhole	NHD-FFC16-1-ND	9.50
—	52 x 40	PCB Adapter 18 pin, 1mm FFC-Thruhole	NHD-FFC18-1-ND	9.50
—	30.4 x 18.3	PCB Adapter 20 pin, 1mm FFC-Thruhole	NHD-FFC20-1-ND	9.50
—	52 x 40	PCB Adapter 26 pin, 1mm FFC-Thruhole	NHD-FFC26-1-ND	9.50

Size	Dimensions W x H x D (mm)	Description	Digi-Key Part No.	Price Each
—	52 x 40	PCB Adapter 18 pin, FFC-Thruhole	NHD-FFC18-ND	9.50
—	52 x 40	PCB Adapter 20 pin, FFC-Thruhole	NHD-FFC20-ND	9.50
—	52 x 40	PCB Adapter 22 pin, FFC-Thruhole	NHD-FFC22-ND	9.50
—	52 x 40	PCB Adapter 26 pin, FFC-Thruhole	NHD-FFC26-ND	9.50
—	52 x 40	PCB Adapter 28 pin, FFC-Thruhole	NHD-FFC28-ND	9.50
—	52 x 40	PCB Adapter 30 pin, FFC-Thruhole	NHD-FFC30-ND	9.50
—	52 x 40	PCB Adapter 33 pin, FFC-Thruhole	NHD-FFC33-ND	9.50
—	52 x 40	PCB Adapter 33 pin, FFC-Thruhole	NHD-FFC36-ND	9.50
—	52 x 20	PCB Adapter 37 pin, FFC-Thruhole	NHD-FFC37-ND	9.50
—	52 x 40	PCB Adapter 40 pin, FFC-Thruhole	NHD-FFC40-ND	9.50

Vacuum Fluorescent Displays

Newhaven Display provides the North American marketplace with cost effective high quality devices ranging from LCD to VFD.

Display Format	Type	Character Height (mm)	Module Size (mm)	Font Type	Digi-Key Part No.	Price Each
6 x 1	VFD Glass	20.00	130.0 x 43.0 x 8.5	7-Segment	D0106LT-43-0601-ND	22.50
7 x 1	VFD Glass	9.70	112.0 x 25.0 x 6.8	7-Segment	D0109MT-25-1101-ND	12.48
9 x 1	VFD Glass	11.00	205.0 x 29.0 x 8.0	7-Segment	D0119LT-29-1901-ND	27.00
16 x 1	VFD Glass	13.00	110.2 x 20.5 x 6.5	Alphanumeric	D0116SY-20-1601FB-ND	9.45
20 x 1	VFD Glass	6.50	134.0 x 20.5 x 6.5	Alphanumeric	D0120MY-A1H-ND	7.20
16 x 1	VFD Module	5.29	80.0 x 36.0 x 11.0	Dot Matrix	M0116SD-161SDBR1-1-ND	29.00
16 x 2	VFD Module	5.34	80.0 x 36.0 x 18.0	Dot Matrix	M0216SD-162SDAR2-1-ND	30.00
16 x 2	VFD Module	5.34	84.0 x 44.0 x 16.6	Dot Matrix	M0216SD-162SDAR8-ND	30.00
16 x 2	VFD Module	9.22	122.0 x 44.0 x 20.2	Dot Matrix	M0216MD-162MDBR2-J-ND	45.00
20 x 2	VFD Module	5.34	116.0 x 37.0 x 17.5	Dot Matrix	M0220SD-202SDAR1-ND	32.00
20 x 2	VFD Module	8.95	146.0 x 43.0 x 19.2	Dot Matrix	M0220MD-202MDAR1-3-ND	39.00
20 x 4	VFD Module	4.87	150.0 x 64.0 x 26.5	Dot Matrix	M0420SD-204MDAR1-C-ND	63.21

TDK DC-AC Inverters for CCFL

Input Voltage	Output (Type)		Inverter Characteristics	Board Dimensions H (Max.) x W x L (mm)	Mating Connector CN1	Contacts CN1	Mating Connector CN2	Contacts CN2	Mating Connector CN3	Contacts CN3	Digi-Key Part No.	Price Each			TDK Part No.
	Volts (V)	I (mA)										1	10	50	
Dimming Function															
4.5 ~ 6.0	1,500	6.0	4W, Single	8 x 20 x 95.5	None Required	None Required	455-1123	455-1124-1	—	—	445-1617-ND◆	27.42	24.81	20.90	CXA-L0605-VJL
5.0 ~ 12.0	900	5.0	2W, Single	6 x 16.5 x 87	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1612-ND	25.02	22.64	19.07	CXA-K0505-VJL
5.0	1,600	6.0	4W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-5395-ND◆ ***NEW!***	27.42	24.81	20.90	CXA-L0605C-VJL
5.0	1,600	6.0	4W, Single	8 x 20 x 95.5	WM1723	WM1142CT	—	—	—	—	445-5402-ND◆ ***NEW!***	27.42	24.81	20.90	CXA-L0605C-VSL
10.8 ~ 13.2	1,250	5.0	8W, Dual	8.5 x 25 x 105	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1611-ND	32.89	29.76	25.06	CXA-0338
9.0 ~ 19.0	1,300	5.0	5W, Dual	8 x 30 x 103	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1610-ND	35.85	32.44	27.32	CXA-0326
10.8 ~ 13.2	1,700	6.0	8W, Dual	8.5 x 21 x153	WM1725	WM1142CT	455-1123	455-1124-1	—	—	445-4080-ND◆	34.41	31.14	26.22	CXA-0454
8.0 ~ 20.0	1,500	5.5	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1626-ND	78.52	71.05	59.83	CXA-M1112-VJ
10.8 ~ 13.2	1,500	6.0	5W, Dual	8 x 30 x 140	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1608-ND◆	38.13	34.50	29.06	CXA-0271
9.6 ~ 14.4	1,500	6.0	5W, Dual	8 x 18 x 140.5	WM1723	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1627-ND	37.77	34.18	28.78	CXA-M1212-RJL
9.6 ~ 14.4	1,500	6.0	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1633-ND	44.01	39.82	33.54	CXA-P1212-VJL
9.6 ~ 15.0	1,600	6.0	3W, Single	6 x 12 x 105.5	WM1723	WM1142CT	—	—	—	—	445-1613-ND	27.43	24.82	20.90	CXA-K0612-VSL
9.6 ~ 15.0	1,600	7.0	5W, Single	8 x 20 x 95.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1620-ND	28.85	26.11	21.99	CXA-L0712-VJL
9.6 ~ 14.4	1,800	6.0	5W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1619-ND	32.01	28.97	24.39	CXA-L0612A-VJL
10.8 ~ 13.2	1,700	6.0	8W, Dual	10 x 24 x 147	WM1725	WM1142CT	BHR-04VS-1	455-1124-1	BHR-04VS-1	455-1124-1	445-1634-ND	36.12	32.68	27.52	CXA-P1212A-WJL
10.8 ~ 13.2	1,700	6.0	8W, Dual	8.5 x 21.5 x 153	WM1725	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1635-ND◆	45.99	41.61	35.04	CXA-P1212B-WJL
10.8 ~ 13.2	1.6K	8.0	9W, Dual	8 x 25 x 180	455-1163	455-1127-1	455-1123	455-1124-1	—	—	445-1636-ND	51.72	46.80	39.41	CXA-P1612-VJL
10.8 ~ 13.2	1,250	5.0	8W, Dual	8.5 x 105 x 25	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-5394-ND◆ ***NEW!***	32.88	29.75	25.06	CXA-0543
10.8 ~ 13.2	1,500	6.0	5W, Dual	8 x 30 x 140	455-1163	455-1127-1	455-1123	455-1124-1	—	—	445-5393-ND◆ ***NEW!***	32.40	29.32	24.69	CXA-0549
10.8 ~ 13.2	1,700	6.0	8W, Dual	8.5 x 21 x 153	WM1725	WM1142CT	455-1123	455-1124-1	—	—	445-5397-ND◆ ***NEW!***	36.00	32.58	27.43	CXA-P1212E-WJL
10.8 ~ 13.2	1,700	6.0	8W, Dual	8.5 x 22 x 153.5	WM1725	WM1142CT	—	—	—	—	445-5403-ND◆ ***NEW!***	34.35	31.08	26.18	CXA-P1212D-WJL
10.8 ~ 13.2	2,000	6.5	8W, Dual	8.5 x 50 x 150	455-1161	455-1127-1	—	—	—	—	445-5399-ND◆ ***NEW!***	43.86	39.69	33.42	CXA-0535
10.8 ~ 13.2	2,000	6.5	16W, Quad	8.5 x 50 x 150	455-1161	455-1127-1	—	—	—	—	445-5400-ND◆ ***NEW!***	54.60	49.40	41.60	CXA-0538
10.8 ~ 13.2	2,000	6.5	16W, Quad	8.5 x 50 x 150	455-1161	455-1127-1	—	—	—	—	445-5401-ND◆ ***NEW!***	54.60	49.40	41.60	CXA-0538-A
10.8 ~ 13.2	2,100	6.9	16W, Quad	12 x 37 x 180	455-1161	455-1127-1	—	—	—	—	445-5398-ND◆ ***NEW!***	45.00	40.72	34.29	CXA-0547
Non-Dimming Function															
5.0	1,500	5.0	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1614-ND◆	16.44	14.88	12.53	CXA-L0505-NJL
12.0	1,500	5.0	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1615-ND◆	14.70	13.30	11.20	CXA-L0512-NJL
12.0	1,500	5.0	7W, Dual	8 x 20.5 x 130.5	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1629-ND	25.05	22.67	19.09	CXA-P1012-NJL
11.4 ~ 12.6	1,500	5.0	7W, Dual	8 x 20.5 x 130.5	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-5396-ND◆ ***NEW!***	23.79	21.53	18.13	CXA-P1012B-NJL
24.0	1,500	5.0	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1616-ND	16.44	14.88	12.53	CXA-L0524-NJL
Non-Dimming Function, PCB Mountable Type															
5.0	900	5 / 10	4.5W, Dual	16.5 x 21 x 44	—	—	—	—	—	—	445-1621-ND◆	10.26	9.29	7.82	CXA-L10A
5.0	1,200	5 / 10	6W, Single/Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1623-ND◆	12.27	11.11	9.35	CXA-M10A-L
12.0	900	5 / 10	4.5W, Dual	16.5 x 21 x 44	—	—	—	—	—	—	445-1622-ND	10.26	9.29	7.82	CXA-L10L
12.0	900	7 / 14	9W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1637-ND◆	13.41	12.14	10.22	CXA-P20L-L
12.0	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1624-ND	12.27	11.11	9.35	CXA-M10L-L
24.0	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1625-ND	12.27	11.11	9.35	CXA-M10M-L
24.0	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1632-ND	19.14	17.32	14.59	CXA-P10M-P

◆ ***RoHS Compliant***

COILTRONICS CCFL Inverter Transformers, SMT

Specifications:
- **Operating Temperature:** 0°C ~ 70°C
- **Frequency Range:** 40kHz ~ 80kHz
- **Supply Current:** 30mA
- **IR Reflow Temperature:** 240°C for 30 seconds maximum

Mechanical Dimensions	Dimensions - mm		
	L	W	H
A	20.6	14.35	8.0
B	26.0	16.5	6.9
C	26.0	16.5	7.1

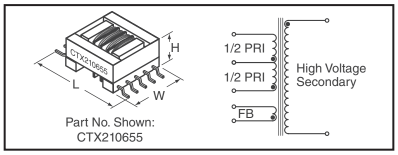

Part No. Shown:
CTX210655

Pout Watts	Mechanical Dimensions	Primary		Secondary		Digi-Key Part No.	Price Each			Coiltronics Part No.
		DCR (Ω) Maximum	Voltage(1) Maximum (VRMS)	DCR (Ω) Maximum	Voltage(1) Maximum (VRMS)		1	10	100	
2.5	A	0.190	13	285	1340	513-1123-ND	8.31	7.55	5.62	CTX210659-R
2.5	A	0.220	20	285	1340	513-1679-ND ***NEW!***	8.31	7.55	5.62	CTX210655-R
6.0	B	0.132	15	176	1340	513-1120-ND	8.48	7.71	5.74	CTX110607-R
6.0	C	0.132	15	176	1340	513-1122-ND	8.48	7.71	5.74	CTX210607-R
6.0	C	0.160	20	176	1340	513-1121-ND	8.48	7.71	5.74	CTX210605-R

Note (1): Continuous RMS Voltage.

J.W. Miller MAGNETICS A Bourns Company SMT, CCFL Inverter Transformers

Features: • Power Rating: 6 Watts • Operating Frequency: 60kHz -/+25% • Operating Ambient Temperature: 0°C ~ 75°C • Storage Temperature: -40°C ~ 105°C • Dielectric Withstanding Voltage: 1500Vrms
Applications: • LCD flat panel displays • Notebook / Palmtop computers • Portable instruments • Retail terminals

Primary		Secondary		I, rms (mA)	Digi-Key Part No.	Price Each			J.W. Miller Part No.
DCR (Ω) Maximum	Voltage (V)	DCR (Ω) Maximum	Voltage (V)			1	10	25	
0.61	25.0	132	1300	70	M8100-ND	4.20	3.15	2.80	PM61300-1-RC
0.82	20.0	175	1300	70	M8101-ND	4.20	3.15	2.80	PM61300-2-RC
1.10	15.0	175	1300	70	M8102-ND	4.20	3.15	2.80	PM61300-3-RC
1.88	13.0	175	1300	70	M8103-ND	4.20	3.15	2.80	PM61300-4-RC
2.34	10.5	290	1300	70	M8104-ND	4.20	3.15	2.80	PM61300-5-RC

Dimensions in mm

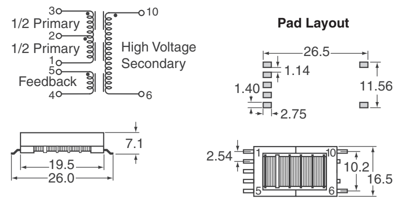

TAIYO YUDEN DC-AC Inverters for CCFL's

This line of low profile DC to AC inverters are designed to drive cold cathode fluorescent lamp (CCFL) backlighting for LCD displays and are recommended by Sharp, Epson, Optrex, Hitachi, Toshiba and other LCD manufacturers. Superior design techniques are used to provide some of the market's lowest profile CCFL inverters.

Input Voltage (VDC)	Output Voltage (V)	Maximum Current (mA)	Output Power per Lamp (W)	No. of Lamps	Brightness Control	Input Connector	Digi-Key Part No.	Price Each			Taiyo Yuden Part No.
								1	10	100	
10.8 ~ 13.2	1450	6.0	3.0	2	DC Volt	—	587-2014-ND	31.98	30.30	24.41	KBI-B02D-RH
10.8 ~ 13.2	930	6.5	13.0	2	DC Volt	—	587-2013-ND	38.63	36.49	29.51	KLS-150A-RH
10.0 ~ 16.0	1500	7.5	3.5	1	Pot/DC Volt	WM7623CT-ND	587-2005-ND	30.86	29.24	23.55	LS380-RH
10.8 ~ 13.2	1300	5.2	5.5	2	DC Volt	WM7625CT-ND	587-2006-ND	58.05	54.83	44.35	LS460-RH
9.6 ~ 14.4	1500	7.0	4.0	2	DC Volt	WM7625CT-ND	587-2007-ND	32.68	30.96	24.94	LS530-RH
4.75 ~ 5.25	1000	5.2	4.0	2	DC Volt	—	587-2008-ND	30.40	28.80	23.20	LS655-RH
10.8 ~ 13.2	1650	13.6	8.0	2	PWM/DC Volt	H2225-ND	587-2009-ND	32.11	30.42	24.51	LS700-RH
10.8 ~ 13.2	1650	13.6	8.0	2	PWM/DC Volt	H2225-ND	587-2010-ND	32.11	30.42	24.51	LS720A-RH
4.5 ~ 7.0	1500	6.5	4.0	1	DC Volt	WM7676CT-ND	587-2011-ND	34.49	32.67	26.32	SIPF150-RH
8.0 ~ 20.0	1500	6.5	4.0	1	DC Volt	WM7623CT-ND	587-2012-ND	31.26	29.61	23.86	SIPF200A-RH

Microsemi

CCFL Inverter Modules

Features: • 3.3V, 5V and 12V inputs • Power levels from 2.2W to 10W • Programmable maximum output current • Widest dimming range, patented digital "Direct Drive" and Analog • Easy to use brightness control, allows smooth flicker free dimming • Output short-circuit protection and timeout • Automatic strike voltage regulation and timeout

Advantages: • Low component count • Duty cycle brightness control provides wide brightness range and extends battery management options • Low cost • Reduction in magnetics size • Wide LCD panel compatibility • Maximum efficiency, especially in battery mode **Options:** • 4 Wattages: 2.2W, 4W, 6W, 10W • Multiple connector styles

Typical VIN (V)	VLAMP Range (VRMS)	Typical IOLAMP (mARMS)	VLS Min./Typ. (VRMS)	Maximum Dimming (Typical)	Operating Temperature	Digi-Key Part No.	Price Each
Single Lamp							
3.3	260 ~ 380	4.0	1250/1400	100:1	0°C ~ 70°C	LXM1615-03-02-ND	34.39
Single Lamp — RoHS Compliant							
3.3	325 ~ 435	3.5 ~ 5.0	1000/1200	100:1	-30°C ~ 80°C	LXMG1617A-03-22-ND	28.98
	325 ~ 435	3.5 ~ 5.0	1000/1100	<5:1	-20°C ~ 70°C	LXMG1618-03-21-ND	33.21
	325 ~ 435	3.5 ~ 5.0	1000/1200	<5:1	-30°C ~ 80°C	LXMG1618A-03-21-ND ***NEW!***	27.26
	325 ~ 435	3.5 ~ 5.0	1000/1100	<5:1	-20°C ~ 70°C	LXMG1618-03-22-ND	33.21
	325 ~ 435	3.5 ~ 5.0	1000/1200	<5:1	-30°C ~ 80°C	LXMG1618A-03-22-ND ***NEW!***	27.26
5	280 ~ 730	4.0 ~ 7.0	1400/1650	50:1	-30°C ~ 80°C	LXMG1811-05-61-ND	29.90
	280 ~ 730	4.0 ~ 7.0	1400/1650	50:1	-30°C ~ 80°C	LXMG1811-05-61S-ND	31.05
	280 ~ 730	4.0 ~ 7.0	1400/1650	50:1	-30°C ~ 80°C	LXMG1811-05-62-ND	29.90
	280 ~ 730	4.0 ~ 7.0	1400/1650	50:1	-30°C ~ 80°C	LXMG1811-05-62S-ND	31.05
	325 ~ 435	3.5 ~ 5.0	1000/1100	50:1	-20°C ~ 70°C	LXMG1617-05-22-ND	36.36
	325 ~ 435	3.5 ~ 5.0	1000/1100	<5:1	-20°C ~ 70°C	LXMG1618-05-22-ND	33.21
	450 ~ 620	5.8	1500/1650	100:1	0°C ~ 70°C	LXMG1612-05-01-ND	48.30
	465 ~ 635	5.0 ~ 6.5	1300/1400	50:1	-20°C ~ 70°C	LXMG1617-05-42-ND	36.36
	465 ~ 635	5.0 ~ 6.5	1300/1450	100:1	-30°C ~ 80°C	LXMG1617A-05-41-ND	29.33
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-20°C ~ 70°C	LXMG1618-05-41-ND	33.21
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-30°C ~ 80°C	LXMG1618A-05-42-ND	27.60
	545 ~ 735	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	LXMG1617-05-61-ND	36.36
	545 ~ 735	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	LXMG1617-05-62-ND	36.36
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXMG1618-05-61-ND	33.21
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXMG1618-05-62-ND	33.21
	545 ~ 735	5.0 ~ 8.0	1500/1650	<5:1	-30°C ~ 80°C	LXMG1618A-05-61-ND	27.95
12	300 ~ 800	7.0	1500/1650	100:1	0°C ~ 70°C	LXMG1611-01-ND	45.66
	390 ~ 790	4.0 ~ 7.0	1400/1600	50:1	-30°C ~ 80°C	LXMG1813-12-61-ND	32.20
	390 ~ 790	4.0 ~ 7.0	1400/1600	50:1	-30°C ~ 80°C	LXMG1813-12-61S-ND	33.35
	390 ~ 790	4.0 ~ 7.0	1400/1600	50:1	-30°C ~ 80°C	LXMG1813-12-62-ND	32.20
	390 ~ 790	4.0 ~ 7.0	1400/1600	50:1	-30°C ~ 80°C	LXMG1813-12-62S-ND	33.35
	450 ~ 620	5.8	1500/1650	100:1	0°C ~ 70°C	LXMG1612-12-01-ND	48.30
	450 ~ 620	5.8	1500/1650	100:1	0°C ~ 70°C	LXMG1612-12-02-ND	48.30
	465 ~ 635	5.0 ~ 6.5	1300/1400	50:1	-20°C ~ 70°C	LXMG1617-12-41-ND	36.36
	465 ~ 635	5.0 ~ 6.5	1300/1400	50:1	-20°C ~ 70°C	LXMG1617-12-42-ND	36.36
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-30°C ~ 80°C	LXMG1618A-12-41-ND ***NEW!***	27.95
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-20°C ~ 70°C	LXMG1618-12-42-ND	33.21
	500 ~ 1000	3.8 ~ 8.8	—/2000	100:1	-40°C ~ 85°C	LXMG1614E-14-11-ND	58.54
	545 ~ 735	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	LXMG1617-12-62-ND	36.36
	545 ~ 735	5.0 ~ 8.0	1500/1650	100:1	-30°C ~ 80°C	LXMG1617A-12-62-ND	30.02
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXMG1618-12-61-ND	33.21
	545 ~ 735	5.0 ~ 8.0	1500/1650	<5:1	-30°C ~ 80°C	LXMG1618A-12-61-ND ***NEW!***	28.29
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXMG1618-12-62-ND	33.21
	545 ~ 735	5.0 ~ 8.0	1500/1650	<5:1	-30°C ~ 80°C	LXMG1618A-12-62-ND ***NEW!***	28.29

Typical VIN (V)	VLAMP Range (VRMS)	Typical IOLAMP (mARMS)	VLS Min./Typ. (VRMS)	Maximum Dimming (Typical)	Operating Temperature	Digi-Key Part No.	Price Each
Dual Lamp — RoHS Compliant							
5	320 ~ 420	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	LXMG1626-05-46-ND	61.18
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-20°C ~ 70°C	LXMG1623-05-41-ND	59.48
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-30°C ~ 80°C	LXMG1627-05-41-ND ***NEW!***	43.68
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-30°C ~ 80°C	LXMG1627-05-42-ND ***NEW!***	43.68
	385 ~ 485	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	LXMG1626-05-45-ND	61.18
	450 ~ 610	5.2 ~ 6.7	1450/1600	50:1	-20°C ~ 70°C	LXMG1623-05-44-ND	59.48
	450 ~ 610	5.0 ~ 6.5	1400/1600	50:1	-30°C ~ 80°C	LXMG1627-05-44-ND	43.68
	460 ~ 620	10 ~ 14	1350/1500	100:1	-20°C ~ 70°C	LXMG1626-05-66-ND ***NEW!***	61.18
	460 ~ 620	10 ~ 14	1350/1500	100:1	-20°C ~ 70°C	LXMG1626-05-67-ND ***NEW!***	61.18
	480 ~ 720	5.0 ~ 8.0	1450/1650	50:1	-20°C ~ 70°C	LXMG1623-05-61-ND	59.48
	480 ~ 720	5.0 ~ 8.0	1500/1650	50:1	-30°C ~ 80°C	LXMG1627-05-61-ND ***NEW!***	43.68
	480 ~ 720	5.0 ~ 8.0	1500/1650	50:1	-30°C ~ 80°C	LXMG1627-05-62-ND ***NEW!***	43.68
12	<1250	3.5 ~ 5.0	1400/1650	100:1	-20°C ~ 70°C	LXMG1626-12-64-ND	61.18
	320 ~ 420	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	LXMG1626-12-46-ND	61.18
	350 ~ 500	6.0	1500/1650	100:1	0°C ~ 70°C	LXMG1621-02-ND	78.20
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-20°C ~ 70°C	LXMG1623-12-41-ND	59.48
	350 ~ 530	5.0 ~ 6.5	1250/1400	<5:1	-20°C ~ 70°C	LXMG1624-12-41-ND	56.33
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-30°C ~ 80°C	LXMG1627-12-41-ND ***NEW!***	43.68
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-30°C ~ 80°C	LXMG1627-12-42-ND ***NEW!***	43.68
	385 ~ 485	5.0 ~ 6.0	1250/1400	100:1	-20°C ~ 70°C	LXMG1626-12-45-ND	61.18
	450 ~ 610	5.0 ~ 6.5	1400/1600	50:1	-30°C ~ 80°C	LXMG1627-12-44-ND	43.68
	460 ~ 620	10 ~ 14	1450/1600	100:1	-20°C ~ 70°C	LXMG1626-12-66-ND ***NEW!***	61.18
	460 ~ 620	10 ~ 14	1450/1600	100:1	-20°C ~ 70°C	LXMG1626-12-67-ND	61.18
	470 ~ 640	5.0	1500/1650	100:1	0°C ~ 70°C	LXMG1621-04-ND	78.20
	480 ~ 720	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	LXMG1623-12-62-ND	59.48
	480 ~ 720	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXMG1624-12-62-ND	56.33
	480 ~ 720	5.0 ~ 8.0	1500/1650	50:1	-30°C ~ 80°C	LXMG1627-12-61-ND	43.68
	480 ~ 720	5.0 ~ 8.0	1500/1650	50:1	-30°C ~ 80°C	LXMG1627-12-62-ND	43.68
	480 ~ 720	5.0 ~ 8.0	1500/1650	<3:1	-30°C ~ 80°C	LXMG1628-12-61-ND	41.38
	480 ~ 720	5.0 ~ 8.0	1500/1650	<3:1	-30°C ~ 80°C	LXMG1628-12-62-ND	41.38
	500 ~ 750	7.0	1500/1650	100:1	0°C ~ 70°C	LXMG1621-01-ND	78.20
	500 ~ 750	6.5	1350/1500	100:1	0°C ~ 70°C	LXMG1622-12-01-ND	74.75
Quad Lamp — RoHS Compliant							
12	530 ~ 720	5.0 ~ 8.0	1500/1650	50:1	-20°C ~ 70°C	LXMG1643-12-61-ND	84.92
	530 ~ 730	5.0 ~ 8.0	1500/1650	50:1	-20°C ~ 70°C	LXMG1643-12-62-ND	84.92
	530 ~ 730	5.0 ~ 8.0	1500/1650	50:1	-20°C ~ 70°C	LXMG1643-12-64-ND ***NEW!***	84.92
Light Sensor — RoHS Compliant							
Ambient Light Sensor Board Assembly						LXMG1800_LS-ND	13.30
NEW! Driver Modules — RoHS Compliant NEW!							
3-String 5W LED Backlight Boost Driver Module						LXMG1930-28-01-ND	22.89
3-String 5W LED Backlight Boost Driver Module						LXMG1930-28-03-ND	22.89
3-String 5W LED Backlight Boost Driver Module						LXMG1930-28-04-ND	22.89

CCFL Controllers and Input Cable Assemblies

RoHS COMPLIANT

LX1686E: This Backlight Controller IC provides all the control functions needed to implement Microsemi's direct drive inverters used to operate cold cathode fluorescent lamps (CCFL's). **LX1689:** The latest generation Direct Drive CCFL uses new circuit design techniques (patents pending) and combines digital and linear circuits with advanced BiCMOS process to create a more complete controller in a small package. **LX1691:** This cost reduced, enhanced feature set Direct Drive CCFL architecture is based on the very popular LX1689. By limiting V_{DDP} to 5.5V and using advanced processing, die size and package pin count is decreased while improving dimming precision. LX1691 based inverter modules can be designed for virtually any CCFL appliance from digital cameras and PDA's to big screen monitors and driver viewable automotive displays. **LX1691A:** This enhanced Direct Drive CCFL architecture is based on the LX1691. LX1691A based inverter modules can be designed for virtually any CCFL appliance from digital cameras and PDA's to big screen monitors and driver viewable automotive displays.

Description	Digi-Key Part No.	Price Each 1	25	Digi-Key Part No.	T&R Pricing 2,500
CCFL Controllers					
Digital Dimming Controller	LX1686ECPW-ND	7.14	6.12	—	—
Third Generation Controller	LX1689CPW-ND	9.12	8.21	—	—
Third Generation Controller	LX1689IPWCT-ND†	10.58	9.08	LX1689IPWTR-ND	5670.00/M
Enhanced Multi-Mode Controller	LX1691IPWCT-ND†	10.50	9.00	LX1691IPWTR-ND	5625.00/M
Enhanced Multi-Mode Controller	LX1691AIPWCT-ND†	10.50	9.00	LX1691AIPWTR-ND	5625.00/M
Input Cable Assemblies					
18", 5-Pin	LX9506-ND	14.70	12.60	—	—
6", 8-Pin	LX9507G-ND	14.70	12.60	—	—
18", 12-Pin	LX9508G-ND	14.70	12.60	—	—

† Cut Tape

JKL COMPONENTS CORPORATION

Cold Cathode Fluorescent Lamps and Inverters

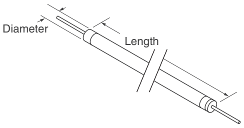

Cold Cathode Fluorescent Lamp

Tri-Phosphor-RGB White Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Lamp Volts (V)	Lamp Curr. (mA)	Intensity (Cd./m2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
2.0	218	1250	500	5	46,000	289-1107-ND	11.34	10.26	8.64	BF20218-24B
	226	1275	510	5	46,000	289-1144-ND	12.18	11.02	9.28	BF20226-24B
	277	1560	625	5	38,000	289-1147-ND	12.18	11.02	9.28	CF20277-28B
	292	1650	660	5	46,000	289-1108-ND	12.77	11.56	9.73	BF20292-24B
	305	1021	663	6	42,000	289-1166-ND◆	12.98	11.75	9.89	CF20305-24B
	325	1830	735	5	46,000	289-1135-ND	12.98	11.75	9.89	BF20325-24B
2.2	140	730	340	5	38,000	289-1053-ND	11.34	10.26	8.64	BF22140-24B
	160	800	370	5	38,000	289-1136-ND	11.34	10.26	8.64	BF22160-24B
	180	1140	380	5	38,000	289-1148-ND	11.34	10.26	8.64	BF22180-28B
	258	1700	720	5	38,000	289-1059-ND	12.18	11.02	9.28	BF22258-25B
2.3	312	1100	618	6	28,000	289-1168-ND	12.98	11.75	9.89	BF23312-24B
2.2	312	1160	750	5	30,000	289-1172-ND	12.98	11.75	9.89	BF22312-45B
2.4	437	1400	835	5	38,000	289-1137-ND	14.47	13.10	11.03	BF24438-33B
2.6	61	490	195	5	30,000	289-1140-ND	11.34	10.26	8.64	BF2661-24B
	180	1000	400	5	38,000	289-1054-ND	11.34	10.26	8.64	BF26180-24B
	188	1300	525	5	38,000	289-1039-ND	11.34	10.26	8.64	BF26188-20B
	230	1175	495	5	30,000	289-1138-ND	12.77	11.56	9.73	BF26230-24B
	240	1250	505	5	30,000	289-1055-ND	12.77	11.56	9.73	BF26240-24B
	250	1300	525	5	30,000	289-1056-ND	12.77	11.56	9.73	BF26250-24B
	285	1500	725	5	30,000	289-1057-ND	12.77	11.56	9.73	BF26285-20B
	318	1636	676	5	34,000	289-1109-ND	12.77	11.56	9.73	BF26318-20B
	346	1450	700	6	36,000	289-1149-ND	12.77	11.56	9.73	CF26346-37B
	349	1715	730	5	30,000	289-1150-ND	12.77	11.56	9.73	CF26349-28B
	360	1650	700	5	38,000	289-1139-ND	12.98	11.75	9.89	BF26360-20B
	600	2340	1125	6	36,000	289-1152-ND	12.98	11.75	9.89	CF26600-37B
2.9	25	400	165	5	19,000	289-1002-ND	11.34	10.26	8.64	BF325-22B
3.0	380	1975	790	5	28,000	289-1143-ND	12.98	11.75	9.89	BF3380-24B
	50	500	195	5	28,000	289-1003-ND	10.29	9.31	7.84	BF350-20B
	75	525	210	5	28,000	289-1058-ND	10.29	9.31	7.84	BF375-20B
	86	540	220	5	28,000	289-1004-ND	10.29	9.31	7.84	BF386-20B
	100	665	270	5	28,000	289-1005-ND	11.34	10.26	8.64	BF3100-20B
	160	850	345	5	28,000	289-1006-ND	11.34	10.26	8.64	BF3160-20B
	216	1100	440	5	28,000	289-1040-ND	11.34	10.26	8.64	BF3216-20B
	228	1150	460	5	28,000	289-1007-ND	11.34	10.26	8.64	BF3228-21B
	240	1150	480	5	28,000	289-1141-ND	12.77	11.56	9.73	BF3240-24B
	250	1200	520	5	28,000	289-1008-ND	11.34	10.26	8.64	BF3250-20B
	300	1350	665	5	28,000	289-1041-ND	12.77	11.56	9.73	BF3300-20B
	360	1500	785	5	28,000	289-1042-ND	12.77	11.56	9.73	BF3360-20B
4.85	142	800	260	5	9,500	289-1153-ND	10.29	9.31	7.84	BF4142-20B
5.6	118	600	305	5	7,000	289-1009-ND	10.29	9.31	7.84	BF5118-20B
	165	800	400	5	7,000	289-1044-ND	10.29	9.31	7.84	BF5165-20B
6.5	100	550	230	5	6,500	289-1012-ND	10.29	9.31	7.84	BF6100-20B
	150	600	250	5	6,500	289-1013-ND	10.29	9.31	7.84	BF6150-20B
	165	600	255	5	6,500	289-1046-ND	10.29	9.31	7.84	BF6165-20B

◆ *RoHS Compliant*

Narrow Spectrum Ultraviolet (UV) Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Operating Volts (V)	Watts @ 5mA	Output uW/ cm2@1"	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0	50	500	195	0.98	0.30	289-1019-ND	12.18	11.02	9.28	BF350-UV1
3.0	120	865	280	1.35	0.25	289-1021-ND	12.18	11.02	9.28	BF3120-UV1
3.0	240	950	500	2.50	0.25	289-1022-ND	12.18	11.02	9.28	BF3240-UV1

Inverters for Electroluminescent (EL) Backlighting

Input Voltage Range (dc)	EL Element Area (cm2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0 ~ 5.5	10 ~ 19	289-1028-ND	20.48	18.53	15.60	NDL-201
	19 ~ 38	289-1029-ND	20.48	18.53	15.60	NDL-202
	20 ~ 60	289-1132-ND*	24.68	22.33	18.80	NDL-104LP
	41 ~ 70	289-1031-ND	20.48	18.53	15.60	NDL-204
	50 ~ 83	289-1032-ND	20.48	18.53	15.60	NDL-205
	100 ~ 170	289-1033-ND	20.48	18.53	15.60	NDL-217

* Low Profile

Inverters for CCFL and UV Lamps

Input Volts	Output Volts (V)	Output I (mA)	Inverter Characteristics	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
5.0	650	4.5	Fixed Single Output	289-1047-ND◆	15.12	13.86	11.97	BXA-502
5.0	700	5.0	Fixed Single Output	289-1134-ND	12.12	11.11	9.60	BXA-501
12.0	700	5.5	Fixed Single Output	289-1049-ND	15.12	13.86	11.97	BXA-12553
12.0	800	4.0	Fixed Dual Output	289-1050-ND	15.12	13.86	11.97	BXA-12576
12.0	850	5.5	Fixed Dual Output	289-1048-ND†	21.32	19.29	16.24	BXA-12529-PS1
12.0	1000	5.5	Fixed Dual Output	289-1025-ND	13.23	11.97	10.08	BXA-12529
24.0	1000	5.5	Fixed Dual Output	289-1027-ND◆	13.23	11.97	10.08	BXA-24529
12.0	1500	5.0	Dual Output	289-1170-ND◆	17.51	15.85	13.35	BXA-12579/MOD5
12.0	1200	5.0	Single Output	289-1167-ND◆	13.23	11.97	10.08	BXA-12665-5M
Accessories — RoHS Compliant								
Input Conn. Assembly for BXA-12579				289-1037-ND	2.10	—	—	BXC-10605
Output Connector Assembly for BXA-12553 and BXA-501				289-1052-ND	2.63	—	—	BXC-10566
Output Connector Assembly for Single BXA-12379				289-1159-ND	2.10	1.90	1.60	BXC-12379/OCON1
Output Connector for BXA-12617C-6M, BXA-12592-3M, BXA-12598-5M, BXA-12610-7M and BXA-12613-7M				289-1069-ND	2.63	2.38	2.00	BXC-10643
Input Connector for BXA-503				289-1070-ND	2.63	2.38	2.00	BXC-10574
Output Connector for BXA-503				289-1071-ND	2.63	2.38	2.00	BXC-10585
Input Connector for BXA-12592-3M, BXA-12598-5M and BXA-12594-5M				289-1121-ND	2.90	2.63	2.21	BXC-10549
Output Connector for BXA-12594-5M				289-1123-ND	2.63	2.38	2.00	BXC-10689
Input Connector for BXA-12610-7M and BXA-12613-7M				289-1124-ND	2.90	2.63	2.21	BXC-10630
Output connector harness for BXA-12579/MOD5				289-1171-ND	2.63	2.38	2.00	BXC-10992
End Cap for 3mm Fluorescent Lamps				289-1072-ND	.53	.48	.40	BF3/RC
End Cap for 2.2mm and 2.4mm Fluorescent Lamps				289-1133-ND	.53	.48	.40	BF2.4/RC
End Cap for 2.6mm Fluorescent Lamps				289-1165-ND	.53	.48	.40	BF2.6/RC

◆ *RoHS Compliant* † Potted inverter

Fluorescent Lamp Assembly

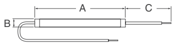

Lamp Length A (mm)	Lamp Diameter B (mm)	Lead Length C (mm)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
258	2.2	150	289-1111-ND	19.15	17.33	14.60	BF22258-25B/DK01
100	3.0	150	289-1112-ND	15.44	13.97	11.76	BF3100-20B/DK01
160	3.0	150	289-1113-ND	15.44	13.97	11.76	BF3160-20B/DK01
250	3.0	150	289-1114-ND	17.22	15.58	13.12	BF3250-20B/DK01

JST

Mating Connector, Contact and Crimp Tool

RoHS COMPLIANT

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Qty.	Pricing	JST Part No.
2-3 Position, 8mm, Crimp Connector Style BH Housing	455-1123-ND	1.89	15.72	62.87	—	—	—	BHR-03VS-1
4-Position, 4mm, Crimp Connector Style BH Housing	455-1369-ND	1.92	15.97	63.88	—	—	—	BHR-04VS-1
22-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1124-1-ND†	—	2.24	8.94	455-1124-2-ND	4,000	14.84/M	SBH-001T-P0.5
Crimp Tool with Die for 22-28 AWG Contacts	455-1125-ND		480.87/1		—	—	—	YC-670R

† Cut Tape

Tyco Electronics
Authorized Distributor

Light-n-Lok™ Connectors

RoHS COMPLIANT

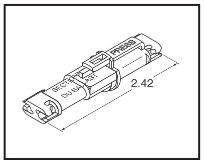

Hot-Pluggable Lighting Disconnect

Materials: • Contacts: Phosphor Bronze • Housing: Polymide UL 94V-0 • Wire Termination: Poke-In • Wire size: 18AWG **Applications:** • Commercial lighting applications for UL2459 • Hot-pluggable interconnect for fluorescent ballast applications • Meets new NEC and CEC requirements.

No. of Pos.	Electrical Rating	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
2	600VAC @ 5A	A97617-ND	.66	.60	.43	2008144-1
3		A97691-ND	1.13	1.03	.73	2008152-1

IDC Poke-in Wire Tap/Splice

RoHS COMPLIANT

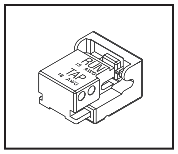

The combination tap/splice is designed to accommodate quick termination of power wiring (tap) out to individual light fixtures (splice).

Materials: • Contacts: Copper alloy • Housing: Thermoplastic • UL 94V-0 rated

Electrical Rating	Color	Wire Size	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
600VAC @ 7A	Brown	12AWG (solid or stranded)	A97619-ND	.51	.47	.33	1811027-1
	Blue	18AWG (solid)	A97620-ND	.51	.47	.33	1811027-2

Noritake Vacuum Fluorescent Display Modules

RoHS COMPLIANT

U Version:

VFD over LCD Advantages:

- Higher Brightness
- Wider Viewing Angle
- Wider Temperature Range

Features:

- LCD compatible interface
- Same mounting locations as LCD
- 5V single power supply
- Power save mode (display off)
- 4 level brightness control (by code)
- 8-bit or 4-bit interface
- 8 user definable fonts
- Power consumption similar to LCD with LED backlight
- Color: Blue-Green

Y Series:

Features:

- Easy command set
- 2x the brightness with the brightness boost
- Highlight character
- 16 UDF and 1 custom font table
- 14 International font tables and 10 extended ASCII
- Select from 1x1, 1x2, and 2x2 character sizes
- More characters in compact display size
- 1U rack height models available
- Available in i80 8-bit parallel, asynchronous serial, synchronous serial, and async RS232 interfaces
- Reliability in all environmental conditions
- Wide temperature range of -40°C ~ 85°C

PIN CONNECTIONS

Pin No.	Symbol	Pin No.	Symbol
1	Vss	8	DB1
2	Vcc	9	DB2
3	NC	10	DB3
4	RS	11	DB4
5	RW (WR)	12	DB5
6	E (RD)	13	DB6
7	DBø	14	DB7

U Version

Display Format	Character Format	Outline Dimensions W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
16 x 2	5 x 7 CURS	80 x 36 x 8.5	51.4 X 11.4	2.3 x 4.8	0.36 x 0.58	-40 ~ 85	-50 ~ 85	286-1068-ND ***NEW!***	66.52	61.54	49.89	CU16025-UW6J
16 x 2	5 x 8 Dots	122 x 44 x 20.2	82.70 x 19	3.85 x 8.0	0.53 x 0.89	-40 ~ 85	-50 ~ 85	286-1017-ND	110.76	102.46	83.07	CU16029ECPB-W1J
20 x 2	5 x 7 CURS	116 x 37 x 16	70.8 x 11.5	2.4 x 5.4	0.4 x 0.5	-40 ~ 85	-50 ~ 85	286-1005-ND	72.30	66.88	54.23	CU20025ECPB-W1J
20 x 2	5 x 7 Dots	146 x 43 x 19	102.6 x 18.8	3.8 x 8.0	0.6 x 0.975	-40 ~ 85	-50 ~ 85	286-1028-ND	111.00	102.68	83.25	CU20029ECPB-W1J
20 x 4	5 x 7 Dots	98 x 60 x 17	70.8 x 20.9	2.4 x 4.7	0.4 x 0.5	-40 ~ 85	-50 ~ 85	286-1064-ND	105.92	97.98	79.44	CU20045-UW5J
20 x 4	5 x 8 Dots	146 x 62.5 x 23	99.6 x 37.6	3.7 x 8.8	0.57 x 0.84	-40 ~ 85	-50 ~ 85	286-1063-ND	164.48	152.15	123.36	CU20049-UW2J
24 x 2	5 x 7 Dots	125 x 36 x 20.74	85.2 x 11.5	2.4 x 4.7	0.4 x 0.5	-40 ~ 85	-50 ~ 85	286-1029-ND	78.78	72.88	59.09	CU24025ECPB-W1J
40 x 2	5 x 7 Dots	182 x 33.5 x 20.5	138.8 x 11.5	2.3 x 4.7	0.38 x 0.5	-40 ~ 85	-50 ~ 85	286-1062-ND	106.84	98.83	80.13	CU40025-UW6J
40 x 4	5 x 7 Dots	190 x 54 x 21	137.4 x 23.2	2.1 x 4.9	0.29 x 0.48	-40 ~ 85	-50 ~ 85	286-1065-ND	236.30	218.58	177.23	CU40045-UW1J

NEW! Y Series

No. of Characters	Character Size (mm)	Display Area (mm)	PCB Size (mm)	Interface	Power (V / mA)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
20 x 2	2.7 x 7.2	73.4 x 15.0	116 x 37	i80 8-bit Parallel (5V CMOS) Async Serial (5V CMOS) Sync Serial (5V CMOS)	5V / 400	286-1073-ND	103.06	95.34	77.30	CU20027-Y1A
24 x 4	2.1 x 3.3	73.4 x 15.0	116 x 37		5V / 350	286-1071-ND	103.06	95.34	77.30	CU24043-Y1A
24 x 6	2.1 x 3.3	70.4 x 22.7	98 x 47		5V / 530	286-1069-ND	137.52	127.21	103.14	CU24063-Y1A
20 x 2	2.7 x 7.2	73.4 x 15.0	116 x 37	i80 8-bit Parallel (5V CMOS) Async Serial (RS232)	5V / 400	286-1074-ND	103.06	95.34	77.30	CU20027-Y100
24 x 4	2.1 x 3.3	73.4 x 15.0	116 x 37		5V / 350	286-1072-ND	103.06	95.34	77.30	CU24043-Y100
24 x 6	2.1 x 3.3	70.4 x 22.7	98 x 47		5V / 530	286-1070-ND	137.52	127.21	103.14	CU24063-Y100

Graphics Vacuum Fluorescent Display Modules

GUD3000/7000 Graphic Development Kits:

Prepares development strategy for the Noritake 3000 or 7000 Series from your Windows PC using the GUD3000 or GUD7000 development kit.

Complete Development Kit Includes:

- GUD3000 256 x 64 or GUD7000 140 x 32 Graphic Display and stand, assembled.
- Serial Signal/ Power wire harness (RS-232 interface)
- Power Supply
- CD with application

GUD3000/GUD7000

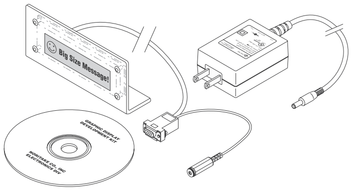
Big Size Message!
GRAPHIC DISPLAY DEVELOPMENT KIT
NORITAKE CO., INC ELECTRONICS DIV

No. of Dots	No. of Characters	Dot Pitch (mm)	Display Area W x H (mm)	PCB Size W x H (mm)	Power (V/mA) (All Dots On)	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1046-ND	104.88	97.02	78.66	GU128X32D-7000
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1048-ND	104.72	96.87	78.54	GU128X32D-7003
128 x 32	4 x 21	0.65 x 0.65	83.05 x 20.65	130 x 38.5	5.0/450	-40 ~ 85	286-1059-ND◆	160.48	148.45	120.36	GU128X32-800B
128 x 64	8 x 21	0.65 x 0.65	83.05 x 41.45	140 x 68	5.0/750	-40 ~ 85	286-1060-ND◆	190.18	175.92	142.64	GU128X64-800B
128 x 64	4 x 8	0.45 x 0.45	57.45 x 28.65	99 x 49	5.0/760	-40 ~ 85	286-1066-ND◆	126.94	117.42	95.21	GU128X64D-7000
160 x 32	4 x 26	0.635 x 0.635	101.45 x 20.17	154 x 45	5.0/550	-40 ~ 85	286-1061-ND◆	178.04	164.69	133.53	GU160X32-800B
192 x 16	2 x 32	0.75 x 0.75	143.8 x 11.8	200 x 33.5	5.0/450	-40 ~ 85	286-1024-ND◆	182.78	169.08	137.09	GU192X16-800A
256 x 64	8 x 42	0.65 x 0.65	166.3 x 41.50	222 x 78	5.0/2,000	-20 ~ 70	286-1010-ND◆	404.36	374.04	303.27	GU256X64-372
256 x 64	16 x 32†	0.45 x 0.45	115 x 28.65	159 x 50	5.0/850	-40 ~ 70	286-1043-ND◆	211.58	195.72	158.69	GU256X64D-3900
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1030-ND◆	62.32	57.65	46.74	GU112X16G-7000
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1032-ND◆	59.06	54.64	44.30	GU112X16G-7003
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1035-ND◆	68.16	63.05	51.12	GU140X16G-7003
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1049-ND	114.54	105.95	85.91	GU140X16J-7000
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1051-ND◆	110.98	102.66	83.24	GU140X16J-7003
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	98 x 60	5.0/400	-40 ~ 85	286-1036-ND◆	104.92	97.06	78.69	GU140X32F-7000
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	98 x 60	5.0/400	-40 ~ 85	286-1038-ND◆	99.74	92.26	74.81	GU140X32F-7003
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1052-ND	111.86	103.48	83.90	GU280X16G-7000
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1054-ND	106.44	98.46	79.83	GU280X16G-7003
256 x 64	8 x 42	0.325 x 0.325	83.08 x 20.68	133 x 38	5.0/430	-40 ~ 85	286-1055-ND	211.58	195.72	158.69	GU256X64C-3900
256 x 64	4 x 16	0.45 x 0.45	115.05 x 28.65	159 x 50	5.0/330	-40 ~ 85	286-1067-ND◆	151.86	140.48	113.90	GU256X64D-7000
256 x 128	16 x 42	0.325 x 0.325	83.08 x 41.48	131 x 66	5.0/850	-40 ~ 85	286-1056-ND◆	287.34	265.79	215.51	GU256X128C-3900
256 x 128	16 x 42	0.45 x 0.45	115.05 x 57.45	170 x 90	5.0/1,200	-40 ~ 85	286-1057-ND◆	416.54	385.30	312.41	GU256X128D-3900
256 x 128	16 x 42	0.55 x 0.55	140.65 x 70.25	214 x 110	5.0/100	-40 ~ 70	286-1058-ND	500.98	463.41	375.74	GU256X128E-3900
Graphics Development Kit Without Display							286-1015-ND◆	200.00	185.00	150.00	GUD-ND
Graphics Development Kit for 3000 Series							286-1041-ND◆	327.40	302.85	245.55	GUD3000
Graphics Development Kit for 7000 Series							286-1042-ND◆	198.74	183.84	149.06	GUD7000

† Also available in 6 x 8 and 8 x 16 depending on font size ◆ ***RoHS Compliant***

LCDs

Creating LED and LCD Solutions Together™

Lumex Numbering System

L C D – S 4 0 1 C 4 0 T F – 1

1 (LCD) 2 (S) 3 (401C40) 4 (T) 5 (F) 6 (–) 7 (1)

1. **Type of Display** Liquid Crystal Display
2. **Operating Temperature** S = Standard (0°C ~ 50°C)
   H = High (-30°C ~ 75°C)
3. **Model Number** Alphanumeric and Numeric:
   401C40 = 4 Character x 1 line, 0.40”
   4x1C45 = 4.5 Character x 1 line, 0.45”
   x - represent 1/2 column
   Matrix and Graphic Model:
   01602D =16 Characters x Lines, Dot Matrix
4. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
5. **Polarizer Mode** R = Reflective
   F = Transflective
6. **Display Mode** Default = Positive Image (No Letter), If more description follows use: “-”; N = Negative Image
7. **Viewing Direction** Default = 6 o’clock (No Number)
   1 = 12 o’clock

Format	No. of Digits	Digit Size (mm)	Type (mm)	No. of Pins	Dual Row Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
	2 1/2	12.17	2.54 Dip	16	28.67	67-1787-ND◆	3.12	2.76	1.78	LCD-S2X1C50TR
	2 1/2	12.17	2.54 Dip	16	28.67	67-1798-ND◆	3.12	2.76	1.78	LCD-S2X1C50TF
	3	7.87	2.54 Dip	24	18.10	67-1788-ND◆	2.91	2.58	1.66	LCD-S301C31TR
	3	7.87	2.54 Dip	24	18.10	67-1799-ND◆	2.91	2.58	1.66	LCD-S301C31TF
	3 1/2	12.70	2.54 Dip	40	33.00	67-1789-ND◆	5.67	4.73	3.41	LCD-S3X1C50TR/A
	3 1/2	12.70	2.54 Dip	40	33.18	67-1790-ND◆	5.67	4.73	3.41	LCD-S3X1C50TR/B
	4	9.92	1.27 Dip	40	24.64	67-1792-ND◆	4.44	3.70	2.67	LCD-S401C39TR
	4	13.20	2.54 Dip	40	32.39	67-1793-ND◆	6.30	5.25	3.78	LCD-S401C52TR
	4	18.00	2.54 Dip	40	40.01	67-1794-ND◆	6.81	5.68	4.09	LCD-S401C71TR
	4 1/2	8.89	2.54 Dip	40	24.45	67-1795-ND◆	4.56	3.80	2.74	LCD-S4X1C35TR
	6	17.99	2.54 Dip	50	40.14	67-1796-ND◆	9.62	8.72	5.81	LCD-S601C71TR
	6	17.99	2.54 Dip	50	40.14	67-1807-ND◆	9.62	8.72	5.81	LCD-S601C71TF

Overall Size (mm)	Active Area (mm)	Color	Typical Voltage	Current (mA)	Works with LCD Part No.	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
Backlight										
30.0 x 20.0	24.0 x 18.4	Green	2.2	25	67-1798-ND	67-1952-ND	3.75	3.13	2.25	SSB-CEL2417SUGC
114.0 x 28.8	100.4 x 25.2	Green	4.2	576	67-1807-ND	67-1953-ND◆	11.45	10.37	6.92	SSB-COB10025GW

◆ ***RoHS Compliant***

Lumex Numbering System

L C M – S 0 1 6 0 2 D T F – 1

1 (LCM) 2 (S) 3 (01602) 4 (D) 5 (T) 6 (F) 7 (–) 8 (1)

1. **Type of Display** Liquid Crystal Display
2. **Operating Temperature** S = Standard (0°C ~ 50°C)
   H = High (-30°C ~ 75°C)
3. **Model Number** Dot Matrix and Graphic Mode:
   01602 = 16 Character x 2 Lines
   12864 = 128 Columns x 64 Rows
4. **Display Type** D = Dot Matrix G = Graphic
5. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
6. **Polarizer Mode** R = Reflective F = Transflective
7. **Display Mode** Default = Positive Image (No Letter)
   If more description follows use: “-”; N = Negative Image
8. **Viewing Direction** Default = 6 o’clock (No Number)
   1 = 12 o’clock

LCD Graphic Modules

Built-in Controller	Dot Pixels W x H	Outline Dimension (mm) W x H x D	Viewing Area (mm) W x H	Pixel Size (mm) W x H	Pixel Pitch (mm) W x H	Backlight Type	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
EPSON SED1520	122 x 32	84 x 44 x 12.70	60.50 x 18.50	.40 x .45	.44 x .49	LED	67-1782-ND	26.85	23.74	18.12	LCM-S12232GSF
SAMSUNG S6B0108	128 x 64	93 x 70 x 12.7	72 x 40	.48 x .48	.52 x .52	LED	67-1783-ND	46.61	39.68	34.06	LCM-S12864GSF
	128 x 64	75 x 52.7 x 10	60 x 32.5	.40 x .40	.43 x .43	LED	67-1784-ND	49.53	42.17	36.20	LCM-H12864GSF/H-Y
TOSHIBA T6963C	240 x 64	180 x 65 x 14	133 x 40	.49 x .49	.53 x .53	LED	67-1785-ND	76.19	68.85	61.05	LCM-S24064GSF
	240 x 128	144 x 104 x 15.1	114 x 64	.40 x .40	.45 x .45	LED	67-1786-ND	88.26	82.38	73.55	LCM-S240128GSF
Avant SBN0064	128 x 64	95 x 70 x 13.2	70 x 38.8	.48 x .48	.52 x .52	LED	67-2095-ND ***NEW!***	38.72	34.22	26.12	LCR-U12864GSF-WH

Dot Matrix LCD Modules

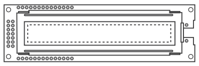

Features: • Standard Temperature Version • Standard Pin Connections • All the LCD's listed use a SAMSUNG controller P/N S6A0069

Display Format	Character Format	Pad Layout	Outline Dimension W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1778-ND	9.94	9.00	6.00	LCM-S01601DTR
16 x 2	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1779-ND	12.30	11.14	7.43	LCM-S01602DTR/A
16 x 2	5 x 8 Dots	L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1780-ND	12.30	11.14	7.43	LCM-S01602DTR/C
16 x 2	5 x 8 Dots	Bottom	66 x 26 x 6.5	52 x 19	2.46 x 5.56	.46 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1781-ND	7.79	7.06	4.71	LCM-S01602DTR/M
Super Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1767-ND	12.67	11.48	7.65	LCM-S01601DSR
16 x 2	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1768-ND	12.15	11.64	7.76	LCM-S01602DSR/A
16 x 2	5 x 8 Dots	Bottom	84 x 44 x 8.8	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1769-ND	13.37	12.81	8.54	LCM-S01602DSR/B
16 x 2	5 x 8 Dots	L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1770-ND	12.15	11.64	7.76	LCM-S01602DSR/C
16 x 2	5 x 8 Dots	Bottom	122 x 44 x 8.8	99 x 24	4.84 x 9.63	.92 x 1.16	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1771-ND	18.21	17.44	11.63	LCM-S01602DSR/D
16 x 4	5 x 8 Dots	Top	87 x 60 x 8.9	65 x 25.6	2.95 x 4.75	.55 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1772-ND	23.67	20.92	15.97	LCM-S01604DSR
20 x 2	5 x 8 Dots	L Side	116 x 37 x 8.9	85 x 18.6	3.2 x 5.55	.60 x .65	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1773-ND	18.59	17.80	11.87	LCM-S02002DSR
20 x 4	5 x 8 Dots	Top	98 x 60 x 8.8	77 x 26.3	2.95 x 4.75	.55 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1774-ND	25.78	22.79	17.39	LCM-S02004DSR
24 x 2	5 x 8 Dots	L Side	118 x 36 x 8.8	93.5 x 16	3.2 x 5.55	.60 x .65	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1775-ND	19.34	18.52	12.35	LCM-S02402DSR
40 x 4	5 x 8 Dots	L Side	190 x 54 x 10	149 x 29.5	2.78 x 4.89	.50 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1777-ND	55.85	47.55	40.82	LCM-S04004DSR
Super Twisted Nematic, Transflective with LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1757-ND	14.83	14.20	9.47	LCM-S01601DSF
16 x 2	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1758-ND	15.70	15.03	10.02	LCM-S01602DSF/A
16 x 2	5 x 8 Dots	Bottom	84 x 44 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1759-ND	16.43	15.73	10.49	LCM-S01602DSF/B
16 x 2	5 x 8 Dots	L Side	85 x 30 x 12.7	66 x 16	2.96 x 5.56	.56 x .66	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1760-ND	15.70	15.03	10.02	LCM-S01602DSF/C
16 x 4	5 x 8 Dots	Top	87 x 60 x 12.7	62 x 25.6	2.95 x 4.75	.55 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1761-ND	29.73	26.28	20.06	LCM-S01604DSF
20 x 2	5 x 8 Dots	L Side	116 x 37 x 12.7	85 x 18.6	3.2 x 5.55	.60 x .65	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1762-ND	22.12	19.56	14.93	LCM-S02002DSF
20 x 4	5 x 8 Dots	Top	98 x 60 x 12.7	77 x 26.3	2.95 x 4.75	.55 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1763-ND	33.86	29.93	22.84	LCM-S02004DSF
24 x 2	5 x 8 Dots	L Side	118 x 36 x 12.7	93.5 x 16	3.2 x 5.55	.60 x .65	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1764-ND	22.88	20.22	15.43	LCM-S02402DSF
40 x 2	5 x 8 Dots	L Side	182 x 33.5 x 12.7	154 x 15.3	3.2 x 5.55	.60 x .65	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1765-ND	39.93	35.29	26.93	LCM-S04002DSF
40 x 4	5 x 8 Dots	L Side	190 x 54 x 14.5	149 x 29.5	2.78 x 4.89	.50 x .55	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1766-ND	59.05	52.30	46.40	LCM-S04004DSF
NEW! Super Twisted Nematic, Transflective with LED Backlight and Heater NEW!														
16 x 2	5 x 8 Dots	Top	80 x 36 x 12.8	64 x 14	2.80 x 4.35	.52 x .52	-40°C ~ 85°C	-40°C ~ 85°C	5.0	67-2091-ND	16.69	15.98	10.65	LCR-U01602DSF/AWH
16 x 2	5 x 7 CURS	Bottom	122 x 44 x 13.10	99 x 24	4.84 x 9.66	.92 x .92	-40°C ~ 85°C	-40°C ~ 85°C	5.0	67-2092-ND	26.42	23.36	17.83	LCR-U01602DSF/DWH
20 x 2	5 x 8 Dots	L Side	116 x 37 x 12.8	83 x 18.6	3.70 x 5.55	.60 x .60	-40°C ~ 85°C	-40°C ~ 85°C	5.0	67-2093-ND	23.09	20.41	15.58	LCR-U02002DSF-WH
20 x 4	5 x 8 Dots	Top	98 x 60 x 14.5	76.3 x 25	2.95 x 4.75	.55 x .55	-40°C ~ 85°C	-40°C ~ 85°C	5.0	67-2094-ND	27.56	24.36	18.59	LCR-U02004DSF-WH

Microsemi ***NEW!*** Displays and Drivers

The DC-Plasma , Easy-to-read, 7-Segment Screen Image Display is arranged as 5 columns by 3 rows and features bright neon-orange pixels, wide viewing angle, and sharp contrast. The slim profile, compact outline, and large viewing area make efficient use of valuable system, front panel space. Inherently rugged, DC-Plasma displays are a cost-effective solution when overcoming vibration, temperature, or EMI/RFI issues.

Lines/ Characters	Number of Digits	Character Height (In)	Temperature Range	Outline Dimension (In)	Active Area (In)	Lead Length Type (In)	Brightness, Nominal fL[cd/m2]	Digi-Key Part No.	Price Each 1	5	10	Microsemi Part No.
7-Segment Displays												
3 x 5	15, comma, decimal	0.595	-40°C ~ 70°C	3.35 x 4.71 x 0.99	2.44 x 3.99	0.75	240 [820]	SP-450-033-03-ND	154.50	146.78	139.05	SP-450-033-03
1 x 5	5, comma, decimal	0.61	-40°C ~ 70°C	3.24 x 1.48 x .078	2.52 x 0.78	0.75	220 [750]	SP-450-034-02-ND	129.75	123.27	116.78	SP-450-034-02
1 x 5	5, comma, decimal	1.11	-40°C ~ 70°C	5.98 x 1.93 x 0.76	5.12 x 1.11	0.75	220 [750]	SP-450-035-03-ND	146.63	139.30	131.97	SP-450-035-03
1 x 4	4, comma, decimal	0.61	-40°C ~ 70°C	2.7 x 1.48 x 0.78	1.99 x 0.61	0.75	220 [750]	SP-450-037-ND	129.75	123.27	116.78	SP-450-037

Columns/ Rows	Outline Dimension (In)	Active Area (In)	Pixel Size (In)	Pixel Pitch (In)	Voltage (V)	Brightness, Nominal fL[cd/m2]	Digi-Key Part No.	Price Each 1	5	10	Microsemi Part No.
Dot Matrix - Graphic Driver											
128 x 32	14.80 x 4.93 x .90	12.75 x 3.15	.05 Dia.	.10 x .10	5	50 [170]	PD01B22B-ND	157.50	149.63	141.75	PD01B22B
128 x 64	8.00 x 5.00 x .89	5.10 x 2.54	.02 x .02	.04 x .04	5	50 [170]	PD02B104-ND	276.00	262.20	248.40	PD02B104
128 x 64	8.00 x 5.00 x 1.63	5.10 x 2.54	.02 x .02	.04 x .04	5	50 [170]	PD02D104-ND	868.50	825.08	781.65	PD02D104

red lion Counters and Timers

CUB3 and CUB3T

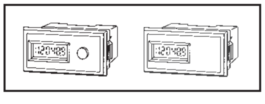

The CUB3 is a battery-powered up counter for counting dry contact closures from switches or relay contacts. Built-in debounce circuitry ensures accurate counts up to 100 Hz. It can also be used with transistor closures and has a reset button on the front of the counter.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB3 Count Indicator, 100 Hz, Replaceable N Cell Battery	RLC03-ND◆	32.40	CUB30000
CUB3 Count Indicator, 100 Hz, Built-in Lithium Battery	RLC04-ND	38.88	CUB3L000/A
CUB3T Time Indicator, 1 Hour or 60 Min., 10-300VAC or DC Input	RLC3TR-30-ND	47.52	CUB3T300
CUB3T Time Indicator, .1 Hour or 6 Min., 10-300VAC or DC Input	RLC3TR-31-ND	47.52	CUB3T310
CUB3T Time Indicator, .01 Hour or 60 Sec., 10-300VAC or DC Input	RLC3TR-32-ND	47.52	CUB3T320

◆ ***RoHS Compliant***

NEW! CUB7 Series Counters and Timers

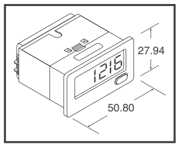

The CUB7 and CUB7T are 8-digit miniature counters or timers with large 0.35" (8.89 mm) high digits. The LCD read-out is available in Positive Imagine Reflective, Negative Image Transmissive with yellow/green or red LED backlighting. The backlight version requires an external 6 ~ 26VDC power supply. The CUB7 series is housed in a lightweight, high-impact plastic case with a clear viewing window. The sealed front panel with the silicone rubber reset button meets NEMA 4X/IP65 specifications for wash-down and/or dusty environments when properly installed. **Features:** • Replaceable internal lithium battery provides up to 7 years of uninterrupted operation • Front panel reset or remote reset • Connections: Wire clamping screw terminals • Fits DIN standard cut-out 1.77" (45 mm) x 0.874" (22.2 mm) • Low speed count to 30 Hz from switch closure or O.C. transistor; High speed count to 10 kHz (CUB7)

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB7 Counter, LCD, Reflective Low Voltage	RLC130-ND	51.84	CUB7CCS0
CUB7 Counter, LCD, Green Backlight Low Voltage	RLC131-ND	73.44	CUB7CCG0
CUB7 Counter, LCD, Reflective High Voltage	RLC138-ND	56.16	CUB7CVS0
CUB7 Counter, LCD, Green Backlight High Voltage	RLC139-ND	77.76	CUB7CVG0
CUB7 Counter, LCD, Red Backlight High Voltage	RLC140-ND	77.76	CUB7CVR0
CUB7T Time Indicator, LCD Program, Reflective Low Voltage	RLC132-ND	48.60	CUB7TCS0
CUB7T Time Indicator, LCD Program, Green Low Voltage	RLC133-ND	70.20	CUB7TCG0
CUB7T Time Indicator, LCD Program, Red Low Voltage	RLC134-ND	70.20	CUB7TCR0
CUB7T Time Indicator, LCD Program, Reflective High Voltage	RLC135-ND	48.60	CUB7TVS0
CUB7T Time Indicator, LCD Program, Green High Voltage	RLC136-ND	70.20	CUB7TVG0
CUB7T Time Indicator, LCD Program, Red High Voltage	RLC137-ND	70.20	CUB7TVR0

SUB-CUB 1 and 2 Counters

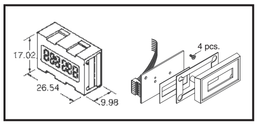

SUB-CUB 1 and 2 are component-type up counters designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability. Ultra low power (5V at 15μA typical) and latchable display with automatic leading zero blanking.

SUPER SUB-CUB provides all the capabilities of SUB-CUB 1 and 2, plus four operating modes capable of bi-directional counting, quadrature counting, coincidence counting and anti-coincidence adding and subtracting. Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB-CUB 1 and 2			
Mounting PCB for Display Counter to Evaluation Kit	RLC02-ND◆	10.80	DM-OSC-B02/A
Display Counter, .2" (5.08mm) High Digits	RLC1000-ND◆	24.84	SCUB-1000
Display Counter, .35" (8.89mm) High Digits	RLC2000-ND◆	31.32	SCUB-2000
Panel Bezel Kit with PCB and Cable for RLC2000-ND	RLC40-ND	22.68	HWK-40-000/A
SUPER SUB-CUB			
Panel Bezel Kit without PCB or Cable for RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND and RLC2000-ND	RLC30-ND	11.88	HWK-30-000/A

◆ ***RoHS Compliant***

PAX Lite Meters

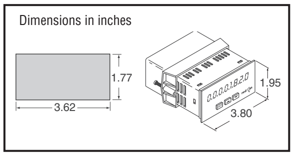

PAX Lite DC Current and Voltmeters

Specifications: • Power: 115/230VAC, switch selectable, 50/60 Hz • Input Ranges/Resolution: Selectable by jumper connections • Accuracy: • DC Voltmeters: 1mV, 10mV, 100mV or 1V • DC Current Meters: 199.9 μA/199.9 mV, 1.999 mA, 19.99 mA, 199.9 mA or 1.999 A • Over-Range Indication: on all modes is indicated by blanking 3 least significant digits

RLC105-ND (PAXLID00) PAX Lite DC Current, 3 1/2-Digit, LED Meter.................................... **$113.36**
RLC107-ND (PAXLVD00) PAX Lite DC Voltmeter, 3 1/2-Digit, LED Meter.................................. **$113.36**
RLC109-ND (PAXLIT00) PAX Lite Large AC Current, 3 1/2-Digit, LED Meter.............................. **$160.16**

PAX Lite Current Loop Meter

Specifications: • Power: AC Power: 85 ~ 250VAC, 50/60 Hz, 6VA • Input Resistance: 4 ~ 20 mA - 29.2 Ω, 10 ~ 50 mA - 11.8 Ω • Span: 32 coarse steps (binary progression with 5 DIP switches) Each step providing approximately 8.125 numerical units/mA/step sensitivity for 4 ~ 20 mA input and 3.25 units/mA/step for 10 to 50 mA input.

RLC112-ND (PAXLCL00) PAX Lite Current Loop, 3 1/2-Digit, LED Meter.................................. **$160.16**

PAX Lite RTD Meter

Specifications: • Controls: Three front panel push buttons for meter set-up; rear terminal input for disabling the front panel • Accuracy: 0.3°C, @ 23°C and 30 minutes warm-up • Reading Rate: 2.5 readings/second • Response Time: 2 seconds to settle for step input (increases with programmable digital filtering) • Operating Temperature Range: 0°C ~ 50°C

RLC115-ND (PAXLRT00) PAX Lite RTD, 4-Digit, LED Meter **$199.68**

4" High Digit Timer

RLC125-ND (LD4T06P0) 4.0" (101.60mm) High 6 Digit Red LED Timer, 120VAC............................ **$681.20**

CUB5 Series

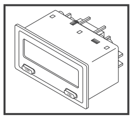

The CUB5 provides the ultimate in flexibility, from its complete user programming to the optional relay output capability. The meter can be programmed as a single or dual counter with rate indication capability. As a dual counter, each counter has a separate scale factor and decimal point. In the counter/rate indicator mode, each has its own scaling and decimal point read-out in different engineering units. The display can be toggled either manually or automatically between the selected displays. The CUB5 can be powered from an optional Red Lion Micro-Line/Sensor Power Supply (RLC124-ND) which attaches directly to the back of the CUB5. The RLC124-ND is powered from 85-250VAC and provides up to 400mA to drive the unit and sensors. **Specifications:** • Display: 0 ~ 999999 • Over Range Display: "R OLOLOL" • Maximum Frequency: 20kHz; Minimum Frequency: 0.01Hz • Accuracy: ±0.01% • Operating Temperature: -35°C ~ 85°C • Connections: Wire clamping screw terminals • Count/Rate Signal Input A: DIP switch selectable to accept pulses from variety of sources; Input B: Logic signals only

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB5 Dual Counter and Rate Indicator, Reflective Display	RLC121-ND	105.04	CUB5R000
CUB5 Dual Counter and Rate Indicator, Red-Green Backlight Display	RLC122-ND	117.52	CUB5B000
Setpoint Relay Option Card, SPDT, 1A Output	RLC123-ND	26.00	CUB5RLY0
Micro-Line/Sensor Power Supply	RLC124-ND	44.20	MLPS1000

MDMU Counter

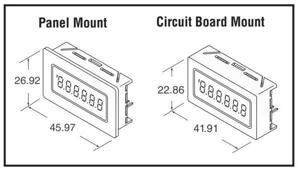

The MDMU is a complete 6-digit counter in a small panel mounted or printed circuit board (PCB) mounted package. It is designed to operate from a 5VDC power supply. It has a 6-digit LCD with 0.35" (8.89mm) high digits and 5 selectable decimal points. In the timer mode, a flashing annunciator is supplied to indicate that the signal input of the MDMU is active. The displays are available in Positive Image Reflective (black digits, reflective background) or Negative Image Transmissive (illuminated digits, dark background) with red or yellow/green backlighting.

Features: • LCD: Positive Image Reflective or Negative Image Transmissive with yellow/green or red LED backlighting • 10 ranges in timer mode • Selectable decimal points • 5VDC powered • Panel mount or PCB mount

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
Counter, Reflective Display, Panel Mount	RLCU00-ND◆	38.88	MDMU0000
Counter, Yellow Backlight Display, Panel Mount	RLCU01-ND	49.68	MDMU0010
Counter, Red Backlight Display, Panel Mount	RLCU02-ND◆	49.68	MDMU0020
Counter, Yellow Backlight Display, PCB Mount	RLCU11-ND	46.44	MDMU0110
Counter, Red Backlight Display, PCB Mount	RLCU12-ND	46.44	MDMU0120
MDM Cable Assembly	RLC70-ND	14.04	HWK70000

◆ ***RoHS Compliant***

Miniature Display D.C. Voltmeter

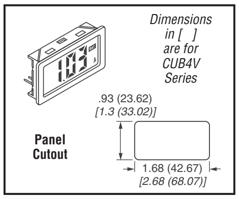

MDMV Series: Specifications • Display: 3-1/2-digit, 0.4" (10.2mm) high digits. A minus (-) sign is displayed when voltage is negative • Decimal Points: Selectable decimal points are activated at the rear terminal pins to allow the display to be read in tenths, hundredths or thousandths • Annunciators: 5 selectable annunciators, BAT, V, A, μ and m are activated at the appropriate rear terminal • Power Requirements: 4.8VDC ~ 6VDC @ 5mA Maximum • Input Range: 0 to ±199.9m VDC • Over-range Indication: Over-range is indicated by a "1" displayed in the most significant digit and the blanking of the three least significant digits • Reading Rate: 2 1/2 readings per second • Common Mode Rejection Ratio: 70dB • Input Impedance: 1000MΩ • Operating Range: 0°C ~ 60°C

CUB4V Series: Specification: • LCD, positive reflective or negative transmissive with yellow/green or red backlighting • Four selectable D.C. ranges (0-199.9 mV, 1.999 V, 19.99 V, 199.9 V) • 0.6" (15.24mm) high LCD digits • Built-in scaling provided • Auto-zeroing circuit • Selectable decimal points • Wire connections made via screw clamp type terminals • Fits DIN standard cut-out 2.68" (68mm) x 1.30" (33mm) • NEMA 4X/IP65 sealed front panel bezel • 9 ~ 28VDC powered

Description	Digi-Key Part No.	Price Each 1	5	Red Lion Part No.
MDMV Series				
Panel Mount, Reflective Display	RLC000-ND◆	61.20	59.67	MDMV0000
Panel Mount, Yellow/Green Backlight Display	RLC010-ND◆	80.40	78.39	MDMV0010
Panel Mount, Red Backlight Display	RLC020-ND	80.40	78.39	MDMV0020
PC Board Mount, Reflective Display	RLC100-ND	56.40	54.99	MDMV0100
PC Board Mount, Red Backlight Display	RLC120-ND	76.80	74.88	MDMV0120
MDM Cable Assembly	RLC70-ND	14.04	13.69	HWK70000
CUB4V Series — RoHS Compliant				
DC Voltmeter	RLC4V0-ND	107.12	97.08	CUB4V000
DC Voltmeter,Yellow/Green Backlight Display	RLC4V1-ND	119.60	108.39	CUB4V010
DC Voltmeter, Red Backlight Display	RLC4V2-ND	119.60	108.39	CUB4V020

◆ ***RoHS Compliant***

SUB-CUB D

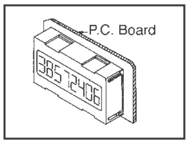

The SUB-CUB D is a completely self-contained 8-digit counter module for high speed counting, with counting rates to 750 kHz. Counters are designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability.

Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB-CUB D			
SUB-CUB D Prototype PCB	RLC09-ND	15.12	DM-OSC-B04/A
Panel Bezel Kit			
Panel Bezel Kit for RLC2-8A-ND and RLC2000-ND	RLC30-ND	11.88	HWK-30-000/A

PRD Plastics

Bezels

- Bezel material is polystyrene plastic
- Recommended panel thickness for mounting snap-fit bezel is .813mm ~ 3.18mm

Digi-Key Part No.	Dimensions (mm)		Panel Cut-Out For Snap Fit Bezel	
	A	B	Height	Width
PRD180B-ND	58.74	45.72	26.99	52.39
PRD250B-ND	76.20	63.50	26.99	69.85
PRD360B-ND†	104.78	91.44	26.99	98.43

† PRD360B-ND has 4 snap-on plastic clip bars

Snap-Fit Bezel

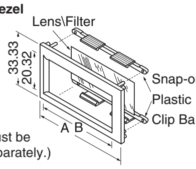

(Lenses must be ordered separately.)

Lo-Profile Polycarbonate/ABS with Non-Removable Lens

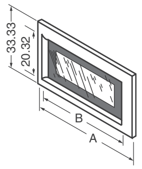

(requires adhesive strips)

Description	Digi-Key Part No.	Price Each			PRD Plastics Part No.
		1	10	100	
Snap Fit Bezels (Lenses Must Be Ordered Separately)					
45.72mm Wide Bezel Black Plastic	PRD180B-ND	1.95	1.63	1.30	6101010
63.50mm Wide Bezel Black Plastic	PRD250B-ND	2.34	1.95	1.56	6102010
91.44mm Wide Bezel Black Plastic	PRD360B-ND	2.70	2.25	1.80	6103010
For Use With LCDs					
Clear Lens for 45.72mm Bezel	PRD180C-ND	1.77	1.48	1.18	6201010
Clear Lens for 63.50mm Bezel	PRD250C-ND	1.95	1.63	1.30	6202010
Clear Lens for 91.44mm Bezel	PRD360C-ND	2.16	1.80	1.44	6203010
For Use With LEDs					
Smoke Lens for 45.72mm Bezel	PRD180S-ND	1.77	1.48	1.18	6201020
Smoke Lens for 63.50mm Bezel	PRD250S-ND	1.95	1.63	1.30	6202020
Smoke Lens for 91.44mm Bezel	PRD360S-ND	2.16	1.80	1.44	6203020
Red Lens for 45.72mm Bezel	PRD180R-ND	1.77	1.48	1.18	6201030
Red Lens for 63.50mm Bezel	PRD250R-ND	1.95	1.63	1.30	6202030
Red Lens for 91.44mm Bezel	PRD360R-ND	2.16	1.80	1.44	6203030
Green Lens for 45.72mm Bezel	PRD180G-ND	1.77	1.48	1.18	6201040
Green Lens for 63.50mm Bezel	PRD250G-ND	1.95	1.63	1.30	6202040
Green Lens for 91.44mm Bezel	PRD360G-ND	2.16	1.80	1.44	6203040
Masked Lenses					
25.40mm x 22.23mm Window for 45.72mm	PRD180W-ND	1.77	1.48	1.18	6201050
60.96mm x 16.00mm Window for 63.50mm	PRD250W-ND	1.95	1.63	1.30	6202050
65.41mm x 13.79mm Window for 63.50mm	PRD250W1-ND	1.95	1.63	1.30	6202060
83.01mm x 18.59mm Window for 91.44mm	PRD360W-ND	2.16	1.80	1.44	6203050
93.35mm x 15.80mm Window for 91.44mm	PRD360W1-ND	2.16	1.80	1.44	6203060

Description	Digi-Key Part No.	Price Each			PRD Plastics Part No.
		1	10	100	
Lo-Profile Polycarbonate/ABS					
Lo-Profile For LCDs*					
45.72mm Bezel with Clear Lens	PRD180LP-ND	3.63	3.03	2.42	6301010
45.72mm Bezel and Clear Lens with 25.40mm x 22.23mm Window	PRD180LPW-ND	3.63	3.03	2.42	6301020
63.50mm Bezel with Clear Lens	PRD250LP-ND	4.05	3.38	2.70	6302010
63.50mm Bezel with Clear Lens with 60.96mm x 16.00mm Window	PRD250LPW-ND	4.05	3.38	2.70	6302020
63.50mm Bezel with Clear Lens with 65.41mm x 13.79mm Window	PRD250LPW1-ND	4.05	3.38	2.70	6302030
91.44mm Bezel with Clear Lens with 83.01mm x 18.59mm Window	PRD360LPW-ND	4.59	3.83	3.06	6303020
91.44mm Bezel with Clear Lens with 93.35mm x 15.80mm Window	PRD360LPW1-ND	4.59	3.83	3.06	6303030
Lo-Profile For LEDs*					
45.72mm Bezel with Smoke Lens	PRD180LPS-ND	3.63	3.03	2.42	6301040
45.72mm Bezel with Red Lens	PRD180LPR-ND	3.63	3.03	2.42	6301050
45.72mm Bezel with Green Lens	PRD180LPG-ND	3.63	3.03	2.42	6301060
63.50mm Bezel with Smoke Lens	PRD250LPS-ND	4.05	3.38	2.70	6302040
63.50mm Bezel with Red Lens	PRD250LPR-ND	4.05	3.38	2.70	6302050
63.50mm Bezel with Green Lens	PRD250LPG-ND	4.05	3.38	2.70	6302060
91.44mm Bezel with Smoke Lens	PRD360LPS-ND	4.59	3.83	3.06	6303040
91.44mm Bezel with Red Lens	PRD360LPR-ND	4.59	3.83	3.06	6303050
91.44mm Bezel with Green Lens	PRD360LPG-ND	4.59	3.83	3.06	6303060
Accessories					
Adhesive Strips 2/Pad	PRDAS-ND	.81	.68	.54	6000010

* Requires Adhesive Strips (recommend 2 pads for the 91.44mm Bezel)

Jewell Instruments MODUTEC

Analog Panel Meters

The PB Series was designed to meet the expressed need of many customers for meters with a hard-hitting, big-dial-area "industrial" look.

Type	Frequency Range	Input V	Accuracy	Digi-Key Part No.	Price Each		Jewell Instruments Part No.
					1	10	
Frequency Meters Pointer Type Electronic							
Square	45-55Hz	120VAC	±.3Hz	180-1086-ND	75.00	72.00	R3PB-FRQ-50/120-10-U
Rectangular	45-65Hz	120VAC	±.3Hz	180-1069-ND	75.00	72.00	R3S-FRQ-50/120-10-U

PB Series - Square

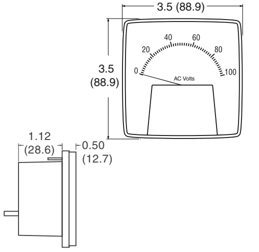

S Series - Rectangular

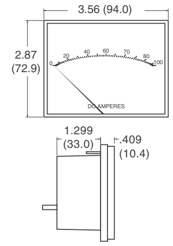

Miniature Backlit 1000 Series

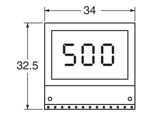

Specifications: Display: • Digits: 3 1/2 digits (1999) • Digit Height: 0.3" (7.6mm) • Decimal Point: 3 positions, external selection • Type: 7 Segment Backlit LCD • Polarity: Automatic (-) displayed • Overload: Three lower digits blank for readings greater than 1999 **Input:** • Full Scale Range: ±2V or ±200m VDC • Input Resistance: ±100MΩ • Overvoltage Protection: 100VDC or peak AC conditions **Performance:** • Accuracy: = (0.25% + 1 count) Maximum • Common Mode Rejection: ≥ 86db 50Hz-60Hz • Zero Adjust: Automatic • Conversion Rate: 2.5 Per Second • Tempco: 100 PPM/°C **Environment:** • Operating Range: -0°C ~ 60°C • Storage Range: -20°C ~ 70°C **Extended Temperature (option):** • Operating Range: -30°C ~ 80°C • Storage Range: -40°C ~ 85°C **Power Options:** • +5VDC and -5VDC ±10% @ 150ua DC or 9VDC (7.2 ~ 12VDC isolated @ 150μADC)

Note: For the battery powered DPM, the input must either be fully isolated from the power source, or, if referenced to the source, the IN LO terminal must be no closer than 2.3V for the 200mV range (3.5V for the 2V range) to either battery terminal.

Display	Mounting	Terminals	DPM Power	Input	Digi-Key Part No.	Price Each		Jewell Instruments Part No.
						1	10	
Positive Red Backlight	Window	Uncased with 13 Pins	Loop Powered	4 ~ 20mADC	180-1051-ND	114.44	109.86	1060-0019-U

Industrial Digital Panel Instruments 2000 Series

Specifications: Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: ≥100db 50Hz ~ 60Hz • Tempco: ±200PPM/°C typical except thermocouple inputs which are .1°/ degree zero tempco for selectable process ranges is only ±.2 count/°C • Normal Mode Rejection: ≥40db 50Hz ~ 60Hz • Zero Adjust: Automatic • Warmup: 10 minutes **Environment:** • Operating Range: -4°F ~ 140°F (-20°C ~ 60°C) • Storage Range: -22°F ~ 150°F (-30°C ~ 70°C) **Power Options:** • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V +10%, -15% 50Hz ~ 400Hz at 2VA **Backlighting:** • Negative Red (Black Background, Red Characters) **FCC Compliance:** • Complies with the class B limits of FCC rules and regulations, part 15, sub part J for conducted and radiated emissions except isolated DC powered which is ≥ 80db 50Hz ~ 60Hz

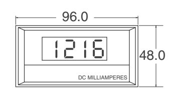

Display	DPM Power	Input†	Backlit Power††	Digi-Key Part No.	Price Each		Modutec Part No.
					1	10	
1/8 DIN							
Negative Red Backlit	115VAC	100 Ohms Pt 1° Resolution	115VAC	180-1041-ND	76.58	73.52	2053-3470-04-U

† Rated for use with 5A or 50A external current transformer supplied with DPM. †† Backlight power must be same as selected DPM power.

Jewell Instruments MODUTEC Big Little Digital Panel Meters

BL Series Specifications: Display: • Digits: 3 1/2 digits, 7 segments backlit LCD (1999) • Digit Height: 0.5" (12.7mm) • Polarity: Automatic (-) displayed • Decimal Point: Three positions, external selection • Overload: Three lower digits blank for readings greater than 1999 • Low battery: "Low Bat" indicator for <7.2V (9V power only) **Performance:** • Accuracy: ±(0.1% rdg + 2 count) with +5 and ±5V power ±(0.1% rdg + 1 count) with 9V power 2.5 per second • Conversion Rate: 2.5 per second • Common Mode Voltage Range: ±1V maximum • Common Mode Rejection: >86db • Zero Adjust: Automatic • Tempco: 100PPM/°C typical **Standard Analog Inputs:** • Full Scale Range: Choice ±200mV, ±2V, or ±20V (Special ranges and engineering units available) • Configuration: True differential input and references • Ratiometric Operation: Available on models BL-100, -130, -176, -300, -330, -400, -500 and -530 • Protection: 250VDC or 150V RMS continuous 300V intermittent maximum • Bias Current: 1pA typical, 10pA maximum • All backlighting power is + 5VDC

Fig. 1

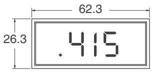

Fig. 2

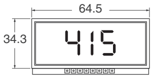

Display	Mounting	DPM Power	Input	Digi-Key Part No.	Price Each			Modutec Part No.
					1	5	10	
Fig. 1 — 13-Pin Terminals								
Negative Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	102.70	100.14	97.57	BL-530302-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	98.50	96.04	93.58	BL-500302-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	61.56	—	59.10	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	61.56	—	59.10	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	95.70	93.31	90.92	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	95.70	93.31	90.92	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	59.81	—	57.42	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	59.81	—	57.42	BL-400101-01-U
Positive Green Backlit	Window	+5VDC	0 - 2VDC	180-1014-ND	91.50	89.22	86.93	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	57.19	—	54.90	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	57.19	—	54.90	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	91.50	89.22	86.93	BL-300101-01-U
Standard Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	77.50	75.57	73.63	BL-130303-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	73.30	71.47	69.64	BL-100303-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	73.30	71.47	69.64	BL-100301-U
Fig. 2 — Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	64.70	63.09	61.47	BL-176303-U
	Window	+5VDC	200mVDC	180-1020-ND	64.70	63.09	61.47	BL-176301-U

Murata Power Solutions Digital Panel Meters

Formerly DATEL

DATEL offering of digital panel meters has been recognized as the industry's most versatile and affordable. In addition to offering a broad range of off-the-shelf products, it can provide applications for specific solutions with the latest designs. DATEL ammeters feature easy set-up and installation and typically require no additional components or user set-up. Average responding or true-rms inputs can measure current values of triangle waves, square waves, and other irregularly-shaped waveforms with an accuracy of ±1% of full scale.

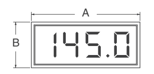

Series	Display	DPM Power	Input Range	Dimensions - mm (Inch)		Digi-Key Part No.	Price Each			Murata Part No.
				A	B		1	5	10	
3 1/2 Digit, Digital Panel Meters										
DMS-20PC	Standard Red LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1000-ND◆	42.19	40.96	40.34	DMS-20PC-0-RS-C
DMS-20PC	Standard Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1001-ND◆	42.19	40.96	40.34	DMS-20PC-1-RS-C
DMS-20PC	Standard Red LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1002-ND◆	42.19	40.96	40.34	DMS-20PC-2-RS-C
DMS-20PC	Low-Power Red LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1003-ND◆	46.22	44.87	44.19	DMS-20PC-0-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1004-ND◆	46.22	44.87	44.19	DMS-20PC-1-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1005-ND◆	46.22	44.87	44.19	DMS-20PC-2-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±200V	35.1 (1.38)	22.4 (0.88)	811-1006-ND◆	46.22	44.87	44.19	DMS-20PC-3-RL-C
DMS-20PC	High-Intensity Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1007-ND◆	46.22	44.87	44.19	DMS-20PC-1-RH-C
DMS-20PC	Standard Green LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1008-ND◆	42.19	40.96	40.34	DMS-20PC-0-GS-C
DMS-20PC	Standard Green LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1009-ND◆	42.19	40.96	40.34	DMS-20PC-1-GS-C
DMS-20PC	Standard Green LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1010-ND◆	42.19	40.96	40.34	DMS-20PC-2-GS-C
DMS-20PC	Standard Blue LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1011-ND◆	50.24	48.76	48.02	DMS-20PC-0-BS-C
DMS-20PC	Standard Blue LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1012-ND◆	50.24	48.76	48.02	DMS-20PC-1-BS-C
DMS-20PC	Standard Blue LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1013-ND◆	50.24	48.76	48.02	DMS-20PC-2-BS-C
DMS-20LCD	Standard LCD	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1014-ND◆	32.15	31.21	30.73	DMS-20LCD-0-5-C
DMS-20LCD	Standard LCD	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1015-ND◆	32.15	31.21	30.73	DMS-20LCD-1-5-C
DMS-20LCD	Standard LCD	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1017-ND◆	32.15	31.21	30.73	DMS-20LCD-2-5-C
DMS-20LCD	Standard LCD	+9VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1018-ND◆	30.14	29.26	28.82	DMS-20LCD-0-9-C
DMS-20LCD	Standard LCD	+9VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1019-ND◆	30.14	29.26	28.82	DMS-20LCD-1-9-C
DMS-20LCD	Backlit LCD	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1016-ND◆	34.15	33.15	32.65	DMS-20LCD-1-5B-C
DMS-30PC	Standard Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1020-ND◆	54.25	52.66	51.86	DMS-30PC-1-RS-C
DMS-30PC	Standard Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1021-ND◆	54.25	52.66	51.86	DMS-30PC-2-RS-C
DMS-30PC	Low Power Red LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1022-ND◆	58.28	56.57	55.71	DMS-30PC-0-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1023-ND◆	58.28	56.57	55.71	DMS-30PC-1-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1024-ND◆	58.28	56.57	55.71	DMS-30PC-2-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±200V	55.1 (2.17)	23.4 (0.92)	811-1025-ND◆	58.28	56.57	55.71	DMS-30PC-3-RL-C
DMS-30PC	High-Intensity Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1026-ND◆	58.28	56.57	55.71	DMS-30PC-1-RH-C
DMS-30PC	Standard Green LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1027-ND◆	54.25	52.66	51.86	DMS-30PC-0-GS-C
DMS-30PC	Standard Green LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1028-ND◆	54.25	52.66	51.86	DMS-30PC-1-GS-C
DMS-30PC	Standard Green LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1029-ND◆	54.25	52.66	51.86	DMS-30PC-2-GS-C
DMS-30PC	Super Blue LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1030-ND◆	65.31	63.40	62.44	DMS-30PC-0-BS-C
DMS-30PC	Super Blue LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1031-ND◆	65.31	63.40	62.44	DMS-30PC-1-BS-C
DMS-30PC	Super Blue LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1032-ND◆	65.31	63.40	62.44	DMS-30PC-2-BS-C
DMS-30DR	Super Bright Red LED, Sunlight Readable	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1033-ND◆	65.31	63.40	62.44	DMS-30DR-0-R-C
DMS-30DR		+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1034-ND◆	65.31	63.40	62.44	DMS-30DR-1-R-C
DMS-30DR		+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1035-ND◆	65.31	63.40	62.44	DMS-30DR-2-R-C
DMS-30LCD	Standard LCD	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1036-ND◆	48.23	46.81	46.11	DMS-30LCD-0-5-C
DMS-30LCD	Standard LCD	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1037-ND◆	48.23	46.81	46.11	DMS-30LCD-1-5-C
DMS-30LCD	Standard LCD	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1039-ND◆	48.23	46.81	46.11	DMS-30LCD-2-5-C
DMS-30LCD	Standard LCD	+9VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1040-ND◆	46.22	44.87	44.19	DMS-30LCD-0-9-C
DMS-30LCD	Standard LCD	+9VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1041-ND◆	46.22	44.87	44.19	DMS-30LCD-1-9-C
DMS-30LCD	Backlit LCD	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1038-ND◆	50.24	48.76	48.02	DMS-30LCD-1-5B-C
DM-31	Standard Red LED	+5VDC	±2V	74.2 (2.92)	33.5 (1.32)	811-1042-ND	105.91	102.80	101.24	DM-3100N-1
DM-31	Standard Red LED	+5VDC	±2V	88.9 (3.50)	50.8 (2.00)	811-1043-ND	94.01	91.25	89.87	DM-31-1
DM-31	Standard Red LED	+5VDC	±2V	95.1 (3.75)	53.8 (2.12)	811-1044-ND	157.33	154.62	151.90	DM-3100B-1
DM-LX3	Standard LCD	+5VDC	±2V	102.0 (4.00)	50.8 (2.00)	811-1045-ND	111.86	108.57	106.93	DM-LX3-1
4 1/2 Digit, Digital Panel Meters										
DMS-40PC	Standard Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1046-ND◆	78.37	76.07	74.92	DMS-40PC-1-RS-C
DMS-40PC	Standard Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1047-ND◆	78.37	76.07	74.92	DMS-40PC-2-RS-C
DMS-40PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1048-ND◆	82.38	79.96	78.75	DMS-40PC-1-RL-C
DMS-40PC	Low Power Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1049-ND◆	82.38	79.96	78.75	DMS-40PC-2-RL-C
DMS-40PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1050-ND†◆	86.41	83.87	82.60	DMS-40PC-1-RL-BCD-C
DMS-40PC	High-Intensity Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1051-ND◆	82.38	79.96	78.75	DMS-40PC-1-RH-C
DMS-40PC	Standard Green LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1052-ND◆	78.37	76.07	74.92	DMS-40PC-1-GS-C
DMS-40PC	Standard Green LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1053-ND◆	78.37	76.07	74.92	DMS-40PC-2-GS-C
DMS-40LCD	Standard LCD	+5VDC	±200mV/±2V	55.1 (2.17)	23.4 (0.92)	811-1054-ND◆	78.37	76.07	74.92	DMS-40LCD-0/1-5-C
DMS-40LCD	Standard LCD	+5VDC	±2V/±20V	55.1 (2.17)	23.4 (0.92)	811-1055-ND◆	78.37	76.07	74.92	DMS-40LCD-1/2-5-C
DM-4101	Standard Red LED	+5VDC	±2V	74.2 (2.92)	33.5 (1.32)	811-1056-ND	159.46	154.77	152.43	DM-4101N-1
DM-4101	Standard Red LED	+5VDC	±2V	95.1 (3.75)	53.8 (2.12)	811-1057-ND	157.08	152.46	150.15	DM-4101L-1

◆ ***RoHS Compliant*** † BCD Output ‡ With Blade Terminals § With Split-Core Flying Lead CT ▲ With Flying-Lead CT ∆ With Alarm Function *(Continued)*

muRata Ps
Murata Power Solutions

Digital Panel Meters *(Cont.)*

Formerly DATEL

Series	Display	DPM Power	Input Range	Dimensions - mm (Inch)		Digi-Key Part No.	Price Each			Murata Part No.
				A	B		1	5	10	
3 1/2 Digit, Control Monitors — RoHS Compliant										
DMS-20PC	Low Power Red LED	+5 ~ 40VDC	4.9 ~ 5.1V	35.1 (1.38)	22.4 (0.88)	811-1083-ND	78.37	76.07	74.92	DMS-20PC-0/5-24RL-C
DMS-20PC	Bright Blue LED	+5VDC	4.9 ~ 5.1V	35.1 (1.38)	22.4 (0.88)	811-1084-ND	82.38	79.96	78.75	DMS-20PC-0/5-5BS-C
3 ~ 3 1/2 Digit, Self-Powered Voltage Monitors — RoHS Compliant										
DMS-20PC	Standard Red LED	—	+4.5 ~ +19.99VDC	35.1 (1.38)	22.4 (0.88)	811-1060-ND	50.24	48.76	48.02	DMS-20PC-0-DCM-C
DMS-20PC	Standard Red LED	—	+8.0 ~ +50VDC	35.1 (1.38)	22.4 (0.88)	811-1062-ND	50.24	48.76	48.02	DMS-20PC-1-DCM-C
DMS-20PC	Standard Red LED	—	+30 ~ +264VDC	35.1 (1.38)	22.4 (0.88)	811-1064-ND	50.24	48.76	48.02	DMS-20PC-2-DCM-C
DMS-20PC	Standard Red LED	—	+2 ~ +11VDC	35.1 (1.38)	22.4 (0.88)	811-1065-ND	50.24	48.76	48.02	DMS-20PC-3-DCM-C
DMS-20PC	Standard Red LED	—	-36 ~ -75VDC	35.1 (1.38)	22.4 (0.88)	811-1066-ND	50.24	48.76	48.02	DMS-20PC-7-DCM-C
DMS-20PC	Standard Red LED	—	85 ~ 264VAC	35.1 (1.38)	22.4 (0.88)	811-1067-ND	56.27	54.62	53.79	DMS-20PC-1-LM-C
DMS-20PC	Standard Red LED	—	85 ~ 264VAC	35.1 (1.38)	22.4 (0.88)	811-1069-ND‡	56.27	54.62	53.79	DMS-20PC-1-LM-F-C
DMS-20PC	Standard Red LED	—	240 ~ 310VAC	35.1 (1.38)	22.4 (0.88)	811-1071-ND	56.27	54.62	53.79	DMS-20PC-2-LM-C
DMS-20PC	Standard Red LED	—	350 ~ 600VAC	35.1 (1.38)	22.4 (0.88)	811-1072-ND	60.28	58.51	57.63	DMS-20PC-3-LM-C
DMS-20PC	Standard Red LED	—	85 ~ 140VAC	35.1 (1.38)	22.4 (0.88)	811-1073-ND	56.27	54.62	53.79	DMS-20PC-1-FM-C
DMS-20PC	Standard Red LED	—	170 ~ 264VAC	35.1 (1.38)	22.4 (0.88)	811-1074-ND	56.27	54.62	53.79	DMS-20PC-3-FM-C
DMS-20PC	Standard Blue LED	—	+4.5 ~ +19.99VDC	35.1 (1.38)	22.4 (0.88)	811-1061-ND	59.28	57.54	56.67	DMS-20PC-0-DCM-B-C
DMS-20PC	Standard Blue LED	—	+8.0 ~ +50VDC	35.1 (1.38)	22.4 (0.88)	811-1063-ND	59.28	57.54	56.67	DMS-20PC-1-DCM-B-C
DMS-20PC	Standard Blue LED	—	85 ~ 264VAC	35.1 (1.38)	22.4 (0.88)	811-1068-ND	65.31	63.40	62.44	DMS-20PC-1-LM-B-C
DMS-20PC	Standard Blue LED	—	85 ~ 264VAC	35.1 (1.38)	22.4 (0.88)	811-1070-ND‡	65.31	63.40	62.44	DMS-20PC-1-LM-BF-C
DMS-20PC	Low-Power Blue	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1966-ND	54.25	52.66	51.86	DMS-20PC-0-BL-C
DMS-20PC	Low-Power Blue	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1967-ND	54.25	52.66	51.86	DMS-20PC-1-BL-C
DMS-20PC	Low-Power Blue	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1968-ND	54.25	52.66	51.86	DMS-20PC-2-BL-C
DMS-20PC	Low-Power Blue	+5VDC	±200V	35.1 (1.38)	22.4 (0.88)	811-1969-ND	54.25	52.66	51.86	DMS-20PC-3-BL-C
DMS-20PC	Low-Power Green	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1970-ND	54.25	52.66	51.86	DMS-20PC-0-PGL-C
DMS-20PC	Low-Power Green	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1971-ND	54.25	52.66	51.86	DMS-20PC-1-PGL-C
DMS-20PC	Low-Power Green	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1972-ND	54.25	52.66	51.86	DMS-20PC-2-PGL-C
DMS-20PC	Low-Power Green	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1973-ND	54.25	52.66	51.86	DMS-20PC-3-PGL-C
DMS-20RM	Bright Red LED	—	0 ~ 19.99VAC, AC	35.1 (1.38)	22.4 (0.88)	811-1984-ND	94.44	91.66	90.27	DMS-20RM-1-AC1-R-C
DMS-20RM	Bright Red LED	—	0 ~ 199.99VAC, AC	35.1 (1.38)	22.4 (0.88)	811-1985-ND	94.44	91.66	90.27	DMS-20RM-2-AC1-R-C
DMS-20RM	Bright Red LED	—	0 ~ 300VAC, AC	35.1 (1.38)	22.4 (0.88)	811-1986-ND	94.44	91.66	90.27	DMS-20RM-3-AC1-R-C
DMS-20RM	Bright Red LED	—	0 ~ 19.99VAC, DC	35.1 (1.38)	22.4 (0.88)	811-1987-ND	94.44	91.66	90.27	DMS-20RM-1-DC2-R-C
DMS-20RM	Bright Red LED	—	0 ~ 199.99VAC, DC	35.1 (1.38)	22.4 (0.88)	811-1988-ND	94.44	91.66	90.27	DMS-20RM-2-DC2-R-C
DMS-20RM	Bright Red LED	—	0 ~ 300VAC, DC	35.1 (1.38)	22.4 (0.88)	811-1989-ND	94.44	91.66	90.27	DMS-20RM-3-DC2-R-C
DMS-20LCD	Standard LCD	—	+6.5 ~ +18VDC	35.1 (1.38)	22.4 (0.88)	811-1058-ND	30.14	29.26	28.82	DMS-20LCD-0-DCM-C
DMS-20LCD	Standard LCD	—	+8.0 ~ +50VDC	35.1 (1.38)	22.4 (0.88)	811-1059-ND	30.14	29.26	28.82	DMS-20LCD-1-DCM-C
3 1/2 Digit, Loop-Powered Process Monitors — RoHS Compliant										
DMS-20PC	Bright Red LED, Unipolar	—	+4 ~ +20mA	35.1 (1.38)	22.4 (0.88)	811-1075-ND	72.34	70.21	69.15	DMS-20PC-4/20S-C
DMS-20PC	Bright Red LED, Bipolar	—	+4 ~ +20mA	35.1 (1.38)	22.4 (0.88)	811-1076-ND	72.34	70.21	69.15	DMS-20PC-4/20B-C
DMS-20LCD	Standard LCD, Unipolar	—	+3.8 ~ +20.4mA	35.1 (1.38)	22.4 (0.88)	811-1077-ND	54.25	52.66	51.86	DMS-20LCD-4/20S-C
DMS-30PC	Standard Red, Full-Size LED	—	+3.5 ~ +22mA	55.1 (2.17)	23.4 (0.92)	811-1080-ND	84.39	81.91	80.67	DMS-30PC-4/20S-24RS-I-C
DMS-30PC	High-Intensity Blue, Full-Size LED	—	+3.5 ~ +22mA	55.1 (2.17)	23.4 (0.92)	811-1081-ND	94.44	91.66	90.27	DMS-30PC-4/20S-24BS-I-C
DMS-30LCD	Standard LCD, Unipolar	—	+3.8 ~ +20.4mA	55.1 (2.17)	23.4 (0.92)	811-1078-ND	72.34	70.21	69.15	DMS-30LCDA-4/20S-C
DMU-30ACV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ 19.99VAC	72.39 (2.85)	40.64 (1.60)	811-1939-ND	113.53	110.19	108.52	DMU-30ACV-0-DR-C
DMU-30ACV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ 199.9VAC	72.39 (2.85)	40.64 (1.60)	811-1940-ND	113.53	110.19	108.52	DMU-30ACV-1-DR-C
DMU-30ACV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ 300VAC	72.39 (2.85)	40.64 (1.60)	811-1941-ND	113.53	110.19	108.52	DMU-30ACV-2-DR-C
DMU-30DCV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ ±1.999VDC	72.39 (2.85)	40.64 (1.60)	811-1942-ND	106.51	103.38	101.81	DMU-30DCV-1-DR-C
DMU-30DCV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ ±19.99VDC	72.39 (2.85)	40.64 (1.60)	811-1943-ND	106.51	103.38	101.81	DMU-30DCV-2-DR-C
DMU-30DCV	Super-bright Red	85 ~ 264VAC/110 ~ 300VDC	0 ~ ±199.9VDC	72.39 (2.85)	40.64 (1.60)	811-1944-ND	106.51	103.38	101.81	DMU-30DCV-3-DR-C
4 1/2 Digit, Loop-Powered Process Monitors — RoHS Compliant										
DMS-40PC	Standard Red, Full-Size LED	—	+3.7 ~ +20.4mA	55.1 (2.17)	23.4 (0.92)	811-1082-ND	116.55	113.13	111.41	DMS-40PC-4/20S-24RS-I-C
DMS-40LCD	Standard LCD	—	+3.8 ~ +20.4mA	55.1 (2.17)	23.4 (0.92)	811-1079-ND	110.52	107.27	105.65	DMS-40LCD-4/20S-C
Four-Function AC Power Meters — RoHS Compliant										
ACM20	Bright Red LED	85 ~ 264VAC @ 47 ~ 63Hz	0 ~ 32A	53.3 (2.10)	36.3 (1.43)	811-2108-ND	65.31	63.40	62.44	ACM20-5-AC1-R-C
ACM20	Bright Red LED	85 ~ 264VAC @ 47 ~ 63Hz	0 ~ 100A	53.3 (2.10)	36.3 (1.43)	811-2203-ND ***NEW!***	65.31	63.40	62.44	ACM20-4-AC1-R-C
Ammeters — RoHS Compliant										
ACA5-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	50.0A @ 45 ~ 450Hz	35.1 (1.38)	22.4 (0.88)	811-1103-ND	72.34	70.21	69.15	ACA5-20PC-1-AC1-RL-C
ACA5-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	100.0A @ 45 ~ 450Hz	35.1 (1.38)	22.4 (0.88)	811-1104-ND	72.34	70.21	69.15	ACA5-20PC-3-AC1-RL-C
ACA5-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	199.9A @ 45 ~ 450Hz	35.1 (1.38)	22.4 (0.88)	811-1105-ND	72.34	70.21	69.15	ACA5-20PC-5-AC1-RL-C
ACA5-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	500A @ 45 ~ 450Hz	35.1 (1.38)	22.4 (0.88)	811-1106-ND	72.34	70.21	69.15	ACA5-20PC-9-AC1-RL-C
ACA5-20RM	Bright Red LED	85 ~ 140VAC @ 50/60Hz	100.0A	46.38 (1.826)	32.51 (1.280)	811-1974-ND	94.44	91.66	90.27	ACA5-20RM-3-AC3-RL-C
ACA5-20RM	Bright Red LED	170 ~ 264VAC @ 50/60Hz	100.0A	46.38 (1.826)	32.51 (1.280)	811-1975-ND	94.44	91.66	90.27	ACA5-20RM-3-AC4-RL-C
ACA5-20RM	Bright Red LED	85 ~ 140VAC @ 50/60Hz	199.9A	46.38 (1.826)	32.51 (1.280)	811-1976-ND	94.44	91.66	90.27	ACA5-20RM-5-AC3-RL-C
ACA5-20RM	Bright Red LED	170 ~ 264VAC @ 50/60Hz	199.9A	46.38 (1.826)	32.51 (1.280)	811-1977-ND	94.44	91.66	90.27	ACA5-20RM-5-AC4-RL-C
ACA5-20RM	Bright Red LED	85 ~ 140VAC @ 50/60Hz	500A	46.38 (1.826)	32.51 (1.280)	811-1978-ND	94.44	91.66	90.27	ACA5-20RM-9-AC3-RL-C
ACA5-20RM	Bright Red LED	170 ~ 264VAC @ 50/60Hz	500A	46.38 (1.826)	32.51 (1.280)	811-1979-ND	94.44	91.66	90.27	ACA5-20RM-9-AC4-RL-C
DCA5-20PC	Low Power Red LED	+5 ~ 40VDC	5.00A/50.0A/500A	35.1 (1.38)	22.4 (0.88)	811-1088-ND	50.24	48.76	48.02	DCA5-20PC-1-DC1-RL-C
DCA5-20PC	Low Power Red LED	+8 ~ 36VDC	5.00A/50.0A/500A	35.1 (1.38)	22.4 (0.88)	811-1089-ND	59.28	57.54	56.67	DCA5-20PC-1-DC4-RL-C
DCA5-20PC	Low Power Red LED	+8 ~ 36VDC	1.00A/10.00A/100.0A/1000A	35.1 (1.38)	22.4 (0.88)	811-1090-ND	59.28	57.54	56.67	DCA5-20PC-2-DC4-RL-C
DCA5-20PC	Low Power Red LED	+8 ~ 36VDC	1.999A/19.99A/199.9A/1999A	35.1 (1.38)	22.4 (0.88)	811-1091-ND	59.28	57.54	56.67	DCA5-20PC-6-DC4-RL-C
Ammeters With Built-In Shunts — RoHS Compliant										
DCA-20PC	Low Power Red LED	+8 ~ 36VDC	199.9mA	35.1 (1.38)	22.4 (0.88)	811-1085-ND	64.29	62.41	61.46	DCA-20PC-4-DC4-RL-C
DCA-20PC	Low Power Red LED	+8 ~ 36VDC	1.999A	35.1 (1.38)	22.4 (0.88)	811-1086-ND	64.29	62.41	61.46	DCA-20PC-5-DC4-RL-C
DCA-20PC	Low Power Red LED	+5 ~ 40VDC	1.999A	35.1 (1.38)	22.4 (0.88)	811-1087-ND	54.25	52.66	51.86	DCA-20PC-5-DC1-RL-C
Ammeters With Built-In Current Transformers — RoHS Compliant										
ACA-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	1.999A @ 45~450Hz	35.1 (1.38)	22.4 (0.88)	811-1098-ND	78.37	76.07	74.92	ACA-20PC-1-AC1-RL-C
ACA-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	19.99A @ 45~450Hz	35.1 (1.38)	22.4 (0.88)	811-1099-ND	78.37	76.07	74.92	ACA-20PC-2-AC1-RL-C
ACA-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	50.0A @ 45~450Hz	35.1 (1.38)	22.4 (0.88)	811-1100-ND	84.39	81.91	80.67	ACA-20PC-3-AC1-RL-C
ACA-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	100.0A @ 45~450Hz	35.1 (1.38)	22.4 (0.88)	811-1101-ND	84.39	81.91	80.67	ACA-20PC-4-AC1-RL-C
ACA-20PC	Standard Red LED	85 ~ 264VAC @ 50/60Hz	30.0A @ 45~450Hz	35.1 (1.38)	22.4 (0.88)	811-1102-ND	78.37	76.07	74.92	DMS-30798-C
ACA-20RM	Low Power Red LED	85 ~ 140VAC @ 50/60Hz	1.999A	53.34 (2.10)	44.45 (1.75)	811-1111-ND	94.44	91.66	90.27	ACA-20RM-1-AC3-RL-C
ACA-20RM	Low Power Red LED	85 ~ 140VAC @ 50/60Hz	19.99A	53.34 (2.10)	44.45 (1.75)	811-1112-ND	94.44	91.66	90.27	ACA-20RM-2-AC3-RL-C
ACA-20RM	Low Power Red LED	85 ~ 140VAC @ 50/60Hz	50.0A	53.34 (2.10)	35.56 (1.40)	811-1113-ND§	98.46	95.57	94.12	ACA-20RM-4-AC3-RL-C
ACA-20RM	Low Power Red LED	85 ~ 140VAC @ 50/60Hz	30.0A	53.34 (2.10)	35.56 (1.40)	811-1114-ND▲	94.44	91.66	90.27	ACA-20RM-5-AC3-RL-C
ACA-20RM	Bright Red LED	85 ~ 140VAC @ 50/60 Hz	50A @ 47 ~ 63Hz	53.34 (2.10)	35.56 (1.40)	811-1980-NDΔ	106.51	103.38	101.81	ACA-20RM-4-AC3-RL-ALM-C
ACA-20RM	Bright Red LED	170 ~ 264VAC @ 50/60 Hz	50A @ 47 ~ 63Hz	53.34 (2.10)	35.56 (1.40)	811-1981-NDΔ	106.51	103.38	101.81	ACA-20RM-4-AC4-RL-ALM-C
ACA-20RM	Bright Red LED	85 ~ 140VAC @ 50/60 Hz	30A @ 47 ~ 63Hz	53.34 (2.10)	35.56 (1.40)	811-1982-NDΔ	106.51	103.38	101.81	ACA-20RM-5-AC3-RL-ALM-C
ACA-20RM	Bright Red LED	170 ~ 264VAC @ 50/60 Hz	30A @ 47 ~ 63Hz	53.34 (2.10)	35.56 (1.40)	811-1983-NDΔ	106.51	103.38	101.81	ACA-20RM-5-AC4-RL-ALM-C

◆ ***RoHS Compliant*** † BCD Output ‡ With Blade Terminals § With Split-Core Flying Lead CT ▲ With Flying-Lead CT Δ With Alarm Function

Accessories

Description	Digi-Key Part No.	Price Each		Murata Part No.
		1	5	
50mV Base Mount DC Shunts — RoHS Compliant				
5A Rated Current	811-1092-ND	23.80	23.10	3020-01097-0
20A Rated Current	811-1093-ND	23.80	23.10	3020-01098-0
50A Rated Current	811-1094-ND	23.80	23.10	3020-01096-0
100A Rated Current	811-1095-ND	23.80	23.10	3020-01099-0
200A Rated Current	811-1096-ND	29.75	28.88	3020-01101-0
500A Rated Current	811-1097-ND	29.75	28.88	3020-01103-0
AC Current Transformers				
50:5A Current Ratio	811-1107-ND◆	29.75	28.88	7020-01036-0
100:5A Current Ratio	811-1108-ND◆	29.75	28.88	7020-01038-0
200:5A Current Ratio	811-1109-ND◆	29.75	28.88	7020-01040-0
500:5A Current Ratio	811-1110-ND	29.75	28.88	39-3681409

Description	Digi-Key Part No.	Price Each		Murata Part No.
		1	5	
Switching Regulators — RoHS Compliant				
3.3VDC/0.5A Output	811-1115-ND	11.78	11.44	7803SR-C
5.0VDC/0.5A Output	811-1116-ND	11.78	11.44	7805SR-C
12.0VDC/0.4A Output	811-1117-ND	11.78	11.44	7812SR-C
3.3VDC/2.0A Output	811-1118-ND	14.01	13.60	78SR-3.3/2-C
5.0VDC/2.0A Output	811-1119-ND	14.01	13.60	78SR-5/2-C
Power Supplies - Chassis Mount — RoHS Compliant				
5W, 5VDC/1A Out	811-1120-ND	64.26	62.37	DMS-PS1-CM-C
Panel Cutout Punch				
For DMS-20-CP Series	811-1121-ND	326.25	320.63	DMS-20-CP
For DMS-30/40 Series	811-1122-ND	345.10	339.15	DMS-30-CP

Description	Digi-Key Part No.	Price Each		Murata Part No.
		1	5	
Application Boards — RoHS Compliant				
For DMS-30 and DMS-40 Meters	811-1123-ND	16.66	16.17	DMS-EB-C
For DMS-20PC/LCD Meters	811-1124-ND	16.66	16.17	DMS-EB2-C
For DMS-30PC/LCD Meters	811-1125-ND	42.84	41.58	DMS-EB-DC/DC-C
AC to RMS Converter for DMS-30 Meters	811-1126-ND	47.60	46.20	DMS-EB-RMS-C
Panel Mount Bezels W/ Rubber Gasket — RoHS Compliant				
DMS-30/40 Bezel	811-1127-ND	6.04	5.86	DMS-BZL2-C
DMS-20 Bezel	811-1128-ND	6.04	5.86	DMS-BZL4-C

◆ ***RoHS Compliant***

OMRON

NEW! H3FA Solid State Timers

The H3FA Series is a small compact timer integrated into a PCB relay to give Delay-On or Time Limit Resetting operations. The built-in potentiometer can be used for convenience or may be used as an external potentiometer for time control and accuracy. Timers also come with a remote start pin to trigger timing operations and a reset pin once timing has expired. **Specifications:** • Control Outputs: Contact output: SPST-NO + SPST-NC, 3A at 250VAC with resistive load • Accuracy of Operating Time: ±0.5% FS max. • Reset Time: 10ms max. • Approved Safety Standards: UL508, CSA C22.2 No. 14

H3FA-B Shown

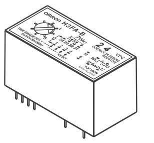

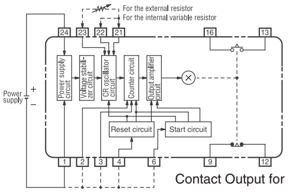

Contact Output for H3FA-AU

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIP Relay Timer, 0.1 Second ~ 10 Minute, 24VDC	Z3010-ND	39.59	36.66	34.22	H3FA-A-DC24
DIP Relay Timer, 0.1 Second ~ 10 Minute, 5VDC	Z3011-ND	47.91	44.36	41.41	H3FA-AU-DC5
DIP Relay Timer, 0.1 Second ~ 10 Minute, 12VDC	Z3012-ND	41.67	38.59	36.02	H3FA-AU-DC12V
DIP Relay Timer, 0.1 Second ~ 10 Minute, 24VDC	Z3013-ND	41.67	38.59	36.02	H3FA-AU-DC24
DIP Relay Timer, 0.6 Second ~ 60 Minute, 12VDC	Z3014-ND	41.67	38.59	36.02	H3FA-B-DC12
DIP Relay Timer, 0.6 Second ~ 60 Minute, 24VDC	Z3015-ND	41.67	38.59	36.02	H3FA-B-DC24

H3RN Compact Analog Timers

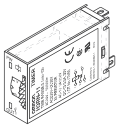

Features:
- Multiple operating modes, DIP switch selectable, ON-delay, Interval, Repeat cycle ON-Start/OFF-Start
- Standard multiple time ranges: Short range (0.15 ~ 10 minutes) Long range (0.1 minute ~ 10 hours)
- Pin configuration compatible with G2R-IS

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Mini Delay Timer, 4 Mode, 0 ~ 10 Min., 24VAC	Z2397-ND	45.83	42.44	39.61	H3RN-1-AC24
Mini Delay Timer, 4 Mode, 0 ~ 10 Min., 24VDC	Z2398-ND	45.83	42.44	39.61	H3RN-1-DC24
Mini Delay Timer, 4 Mode, 0 ~ 10 Hrs., 24VDC	Z2400-ND	45.83	42.44	39.61	H3RN-11-DC24

ON-Delay H3JA Timers

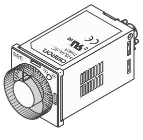

Features: • DPDT contact Form • Fits standard 8-pin sockets • LED power-ON indictor • ON-delay only **Specifications:** • Supply Voltage: 100/110/120VAC • Control Output, DPDT: maximum load - 5A, 125/250VAC (resistive load), minimum load - 100mA, 5VDC • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at maximum ratings

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Delay Timer, 120VAC, 1 ~ 10 Second	Z1646-ND	48.24	44.67	41.69	H3JA-8C-AC100-120 10S
Delay Timer, 120VAC, 3 ~ 30 Second	Z2389-ND◆ ***NEW!***	49.20	45.56	42.53	H3JA-8CAC100-120 30SQ1
Delay Timer, 120VAC, 0 ~ 1 Minute	Z2391-ND◆	49.21	45.57	42.53	H3JA-8C-AC10012060S
Delay Timer, 120VAC, 0 ~ 10 Minute	Z2388-ND◆	49.21	45.57	42.53	H3JA-8C-AC10012010M
Delay Timer, 120VAC, 0 ~ 60 Minute	Z2390-ND◆	49.21	45.57	42.53	H3JA-8C-AC10012060M
8Pin Relay Screw Term. Sckt. for H35A Series	Z883-ND◆	10.63	9.57	8.51	P3G-08
Panel Mount Adapter for H3JA Series	Z886-ND	10.11	9.11	8.09	Y92F-31
DIN-Rail Mount Socket for H3JA Series	Z2368-ND◆	8.44	7.82	7.30	PF085-A

◆ ***RoHS Compliant***

Low Cost H3YN Timers

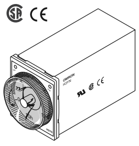

Features: • Improved miniature timer relay that operates in 4 selectable modes: ON-Delay, Interval, Repeat Cycle, ON-Start (selectable by dip switches) • Independent Power-ON and Time-Up indicators show relay status instantly • Control Outputs: DPDT: 5A at 250VAC, resistive load; 4PDT: 3A at 250VAC, resistive load • Operating Temperature: -10°C ~ 50°C • Mechanical Service Life: 10,000,000 operations minimum • Electrical Service Life: DPDT: 500,000 operations minimum; 4PDT: 200,000 operations minimum For mounting socket, use Z882-ND (DPDT) or Z811-ND (4PDT)

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Timer Analog 0 ~ 10 Minute DPDT	Z1134-ND	52.34	48.47	45.24	H3YN-2 AC100-120
Relay Timer Analog 0 ~ 10 Hours DPDT	Z1135-ND	52.34	48.47	45.24	H3YN-21 AC100-120
Relay Timer Analog 0 ~ 10 Minute 4PDT	Z1136-ND	52.34	48.47	45.24	H3YN-4 AC100-120
Relay Timer Analog 0 ~ 10 Hours 4PDT	Z1137-ND	52.34	48.47	45.24	H3YN-41 AC100-120

Solid State Timers

Series H3CA – Digital Bar Graph

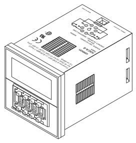

Features: • A simple programmable timer to setup and read with presetable thumb wheel switches for time and mode selection. Also features a simple time-remaining LCD bar graph and LCD status indicator for easy viewing • Operations include: ON-delay, Repeat-cycle, Signal Interval/OFF-delay, Signal-OFF delay (I and II), Interval, Cycle and Signal ON-delay/OFF-delay

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Timer, .1 Sec. ~ 9.99 Khrs., 11-Pin Octal	Z2359-ND	125.63	116.32	108.57	H3CA-A
Timer, .1 Sec. ~ 9.99 Khrs., 8-Pin Octal	Z2377-ND	120.39	111.48	104.05	H3CA-8-AC100/110/120
Timer, ON-Delay Only, 8-Pin Octal	Z2378-ND	120.39	111.48	104.05	H3CA-8H-AC100110120

H3CR Analog Timers

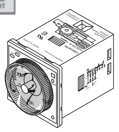

Features: • Field-selectable time ranges from 0.05 second to 300 hours • Use for delay timing, repeatable cycles or duration (interval) timing. Built-in DPDT relay switches when timing cycle is complete. • Timing Functions: ON-delay, Repeat cycle (B, B2), Signal ON/OFF delay, Signal OFF-delay, Interval **Specifications:** • Supply Voltage: 100VAC ~ 240VAC, or 24 ~ 48VAC/12 ~ 48DC • Operating Voltage: 85% ~ 110% of rated supply voltage • Control Output: Type - DPDT relay, Maximum load - 5A, 250VAC, minimum load - 10mA, 5VDC • Repeat Accuracy: ±0.3% full scale maximum, except in 1.2 range ±0.3%, ±10ms

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Relay Timer, 120/240VAC, 11-Pin Octal DPDT	Z876-ND	68.05	63.02	H3CRAAC100240DC100125
Relay Timer, 24VDC/AC, 11-Pin Octal DPDT	Z997-ND	68.05	63.02	H3CRAAC24-48/DC12-48
Relay Timer, 120/240VAC, 8-Pin Octal	Z2379-ND	68.05	63.02	H3CR-A8-AC100240/DC100125
Relay Timer, 24VDC/VAC, 8-Pin Octal	Z2380-ND	66.72	61.78	H3CR-A8-AC24-48/DC12-48
Relay Timer, 24 VDC/VAC, 8-Pin Octal	Z2381-ND	71.19	65.92	H3CR-A8E-AC/DC24-48
Repeat Timer, 0 ~ 30 Hrs., 120 ~ 240VAC	Z2366-ND	78.52	72.71	H3CR-F-AC100-240
Repeat Timer, 0 ~ 300 Hrs., 120VAC, 8-Octal	Z2384-ND	78.52	72.71	H3CR-F8-300-AC100240
Repeat Timer, 0 ~ 300 Hrs., 120 ~ 240VAC	Z2358-ND	78.52	72.71	H3CR-FN-AC100-240
Repeat Timer, 0 ~ 30 Hrs., 12VDC	Z2815-ND	78.52	72.71	H3CR-F8-DC12
Repeat Timer, 0 ~ 30 Hrs., 120VAC, 8-Octal	Z2385-ND	78.52	72.71	H3CR-F8N-AC100240
Off-Delay Timer, 0 ~ 12 Min., 120VAC	Z2386-ND	75.37	69.79	H3CR-H8L-AC100-120M
Off-Delay Timer, 0 ~ 12 Sec., 120VAC	Z2387-ND	75.37	69.79	H3CR-H8L-AC100-120S
Hard Plastic Clr. Cover for 48x48mm Timers	Z2367-ND	8.37	7.75	Y92A-48B
Soft Protective Panel Cover, For H3CR	Z2802-ND	15.45	14.31	Y92A-48F1
Socket Din Mount 11-Pin Screw Terminal	Z884-ND	14.48	13.04	P2CF-11
Protective Panel Cover, Black, For H3CR	Z929-ND	6.68	6.19	Y92P-48GB
Chassis Mount 11-Pin Octal Socket	Z2250-ND	12.55	11.30	P3GA-11

Count Totalizer

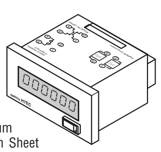

Omron's self-powered totalizing counters feature either no-voltage inputs, DC voltage only or combined AC/DC voltage inputs. Offered in both 1kHz input for high speed, no chatter input signals or 30/20 Hz inputs for relay and switch (high chatter) inputs. **Specifications:** • Input: AC/DC voltage — 24 ~ 240VAC/VDC or 6 ~ 240VDC at "High" (logic) level • DC Voltage — 4.5 ~ 30VDC at "High" (logic) level • No-Voltage — Maximum short-circuit impedance: 10kΩ maximum • Reset Time: 20ms reset signal. • Instruction Sheet Included • Number of digits: 8 • Display: LCD Digital, 0.2 in. high. Replaceable battery.

Type of Input	Counting Speed	Terminal Type	24VDC Backlight	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	30/1kHz	Screw	—	Z861-ND†	59.67	55.26	51.58	H7EC-N-B
No-Voltage	1kHz	PCB Mountable	—	Z3009-ND‡ ***NEW!***	59.67	55.26	51.58	H7EC-NP
DC Voltage	30/1kHz	Screw	—	Z865-ND†	73.28	67.85	63.33	H7EC-NV-B
DC Voltage	30/1kHz	Screw	—	Z3008-ND‡ ***NEW!***	73.28	67.85	63.33	H7EC-NV
DC Voltage	30/1kHz	Screw	Yes	Z1144-ND†	73.28	67.85	63.33	H7EC-NV-BH
AC/DC Voltage	20Hz	Screw	—	Z867-ND†§	74.33	68.83	64.24	H7EC-NFV-B

† Black Case ‡ Beige Case § Electrical

Time Totalizer

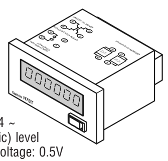

Omron's self-powered time totalizer displays cumulative time by counting the output signals received from a sensor. When the proper input has been applied, the timing circuit is enabled allowing the timer to start, disabling the inputs will stop the timing sequence. Key protect Switch to prevent front resetting. Replaceable battery. **Specifications:** • Supply Voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 ~ 240VAC, or 6 ~ 240VDC at "High" (logic) level; DC voltage — 4.5 ~ 30VDC at "High" (logic) level No-voltage — Maximum short-circuit impedance: 10kΩ maximum Short-circuit residual voltage: 0.5V maximum. • Reset Time: 20ms reset signal • Terminal: Screw type • Instruction sheet included

Type of Input	Time Range	24VDC Backlight	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	0 ~ 999999.9h	—	Z3003-ND‡ ***NEW!***	73.28	67.85	63.33	H7ET-N
No-Voltage	0 ~ 999999.9h	—	Z870-ND†	73.28	67.85	63.33	H7ET-N-B
No-Voltage	0 ~ 999h59m59s	—	Z873-ND†	73.28	67.85	63.33	H7ET-N1-B
DC Voltage only	0 ~ 999999.9h	—	Z3004-ND‡ ***NEW!***	76.42	70.76	66.05	H7ET-NV
DC Voltage only	0 ~ 999999.9h	—	Z872-ND†	72.73	67.35	62.86	H7ET-NV-B
DC Voltage only	0 ~ 9999999.9h	Yes	Z2744-ND†	100.62	93.17	86.96	H7ET-NV-BH
DC Voltage only	0 ~ 999h59m59s	—	Z3005-ND‡ ***NEW!***	76.42	70.76	66.05	H7ET-NV1
DC Voltage only	0 ~ 9999h59.9m	—	Z1149-ND†	76.42	70.76	66.05	H7ET-NV1-B
DC Voltage only	0 ~ 999h59m59s	Yes	Z1150-ND†	85.59	79.26	73.97	H7ET-NV1-BH
AC/DC Voltage	0 ~ 999h59m59s	—	Z874-ND†	90.03	83.37	77.81	H7ET-NFV1-B
AC/DC Voltage	0 ~ 999999.9h	—	Z875-ND†	90.03	83.37	77.81	H7ET-NFV-B

† Black Case ‡ Beige Case

Tachometer Counters

Omron's self powered tachometers offer a large display (8.6mm) with various input types available. Selectable multiplier/divider network allows either RPM or RPS measurement. Comes with waterproofing gasket and panel mounting bracket. Screw terminal connections. 4 digits. Maximum counting speed 1kHz.

Type of Input	24VDC Backlight	Case Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	—	Beige	Z3006-ND ***NEW!***	78.52	72.71	67.86	H7ER-N
No-Voltage	—	Black	Z1145-ND	78.52	72.71	67.86	H7ER-N-B
DC Voltage	—	Black	Z1146-ND	78.52	72.71	67.86	H7ER-NV-B
DC Voltage	Yes	Black	Z1147-ND	79.79	73.89	68.96	H7ER-NV-BH
DC Voltage	—	Black	Z2742-ND	78.52	72.71	67.86	H7ER-NV1-B
DC Voltage	Yes	Black	Z2743-ND	83.57	77.39	72.23	H7ER-NV1-BH

Counter Accessories

Horizontal

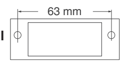

Vertical

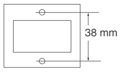

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Horizontal Panel Mounting Adapter for H7 Series	Z998-ND	4.12	3.82	Y92F-75
Vertical Panel Mounting Adapter for H7 Series	Z999-ND	4.12	3.82	Y92F-76

OMRON

Digital Relay Timers

H5CX Series

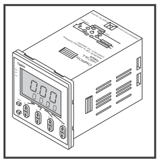

Features: • Field-selectable time ranges from 0.001 second to 9999 hours • High-visibility alphanumeric LCD display has 11.5mm high characters and built-in backlight • Selectable elapsed time (UP) and time remaining (DOWN) display • Timing functions: 11 selectable, including ON-delay, repeat cycle, OFF delay, interval, and one-shot • Programmable display color to alert any output status change

Specifications: • Operating Voltage: 85% ~ 110% of rated voltage • Relay Control Output: Maximum load - 5A, 250VAC; Minimum load - 10mA, 5VDC • Memory Function: Retains preset values for 10 years at 25°C • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at 5A, 240VAC, resistive load (p.f. = 1)

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Timer, 11-Pin Octal, 100-240VAC, Relay Out	Z2998-ND ***NEW!***	161.60	149.64	H5CX-A11-N AC100-240
Timer, Screw Terminal, 100-240VAC, Relay Out	Z2997-ND ***NEW!***	161.60	149.64	H5CX-A-N AC100-240
Timer, Screw Terminal, 100-240VAC, Trans Out	Z3002-ND ***NEW!***	161.60	149.64	H5CX-AS-N AC100-240
Timer, Screw Terminal, 12-24VDC/AC, Trans Out	Z3001-ND ***NEW!***	161.60	149.64	H5CX-ASD-N-DC12-24/AC24
Timer, 8-Pin Octal, 100-240VAC, Economy	Z2999-ND ***NEW!***	136.82	126.69	H5CX-L8-N AC100-240
Timer, 8-Pin Octal, 12-24VDC/AC, Economy	Z3000-ND ***NEW!***	136.82	126.69	H5CX-L8D-N AC12-24/AC24
DIN Rail Mount Screw Terminal Socket, 8 Octal	Z2407-ND	7.95	7.36	P2CF-08
Track or Flush Mount Terminal Socket, 8-Pin	Z2836-ND	8.27	7.66	P2CF-08-E
Socket 8-Pin Octal Chassis Mount	Z883-ND	10.63	9.57	P3G-08
Panel Mount Adapter for H3CR/H5CX-L8 Series	Z885-ND	12.66	11.40	Y92F-30

DIN Rail Relay Timers

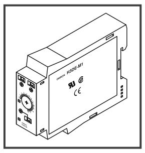

Features: • Slim design for track mounting • Wide AC/DC power supply range (24 to 230VAC/DC) • Eight operating modes (H3DE-M) and four operating modes (H3DE-S) to cover a wide range of applications • Finger protection terminal block • Operating Mode: A: ON-delay (Signal or Power); B: Flicker OFF start (Signal or Power); B2: Flicker ON start (Signal or Power); C: Signal ON/OFF-delay; D: Signal OFF-delay; E: Interval (Signal or Power); G: Signal ON/OFF-delay; J: One-shot (Single or Power) For mounting track, use Z840-ND or Z841-ND

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – 8 Mode SPDT	Z1138-ND	52.34	48.47	45.24	H3DE-M1 AC/DC 24-230
DIN Mount Timer – 8 Mode DPDT	Z1139-ND	61.73	57.16	53.35	H3DE-M2 AC/DC 24-230
DIN Mount Timer – 4 Mode SPDT	Z1140-ND	47.30	43.80	40.88	H3DE-S1 AC/DC 24-230
DIN Mount Timer – 4 Mode DPDT	Z1141-ND	56.52	52.34	48.85	H3DE-S2 AC/DC 24-230

DIN Rail Multi-Function Timers

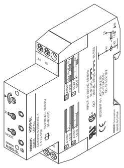

Features:

• Wide AC/DC power supply range (24 ~ 230VAC/24 ~ 48VDC) minimizes inventory • Smart Dial/Selector-Locking Mechanism prevents the dials and selectors on the timer's front panel from being operated without authorization • Eight operating modes (H3DS-M) and four operating modes (H3DS-S) to cover a wide range of applications • Offers wide time setting range of 0.10 second to 120 hours

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – On-Delay Only, No Enable Input, SPDT	Z2392-ND	39.78	36.83	34.38	H3DS-AL AC24-230/DC24-48
DIN Mount Timer – 4 Mode, No Enable Input, SPDT	Z2395-ND	39.78	36.83	34.38	H3DS-SL AC24-230/DC24-48
DIN Mount Timer – 8 Mode, with Voltage Input, SPDT	Z2393-ND	52.34	48.47	45.24	H3DS-ML AC24-230/DC24-48
DIN Mount Twin Timer – Independent "On-Off" Settings, SPDT	Z2394-ND	62.81	58.16	54.28	H3DS-FL AC24-230/DC24-48

Digital Daily Timers

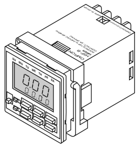

Features: • Precise control of both regular and special ON/OFF times • Can be set for timed or pulsed operation, and for multiple-day operation

Specifications: • Operation: 1. Daily operation (Multiple-day operation possible) 2. Pulse-output operation (pulse width can be set in units of 1 second from 1 ~ 59 seconds and in units of 1 minute from 1 ~ 60 minutes) 3. Partial operation on specified day 4. Forced ON/OFF operation • Repeat accuracy: ±0.01% • Memory protection: 5 years minimum • Life expectancy: 50,000 operations minimum (15A, 250VAC, resistive load) • Operating Temperature: -10°C ~ 55°C

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Daily Timer, Panel Mount	Z1142-ND	181.82	168.36	H5F-B
Digital Daily Timer, Track Mount	Z2440-ND	189.44	175.42	H5F-KB

Programmable Weekly Timer

H5L Series

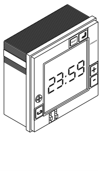

Features: • Large LCD display with 7 day x 24 hour programming • Perfect for controlling On-Off cycles for lighting, industrial and security • Two independent 15A control circuits and 16 step front program options allows fast and easy programming • Wire connections are made by screw terminals from either the front or the back **Specifications:** • Timer may be wall mounted, recessed into panel or din rail mounted • All mounting hardware and instructions are included • Optional protective hard plastic cover prevents accidental resetting and protects from dirt and water

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Programmable Timer 100 ~ 240VAC w/Manual Override	Z1000-ND	221.77	205.35	H5L-A
Clear Protective Cover (Hard Plastic) for H5L-A	Z1001-ND◆	12.86	11.51	Y92A-96A

◆ *RoHS Compliant*

Programmable Weekly Timers

H5S Series

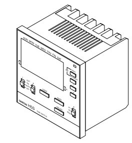

Features: • AM/PM display • Field-adjustable ON/OFF, cycle, and pulse output • A different program possible each day • Wide supply voltage range • Independent Day Keys provide easier operation • Temporary holiday setting function makes it easy to turn OFF output for holidays and non-operating days • Settings can be made even with the Time Switch turned off • Test mode enables easy program checking **Specifications:** • Supply Voltage: AC 100 ~ 240V • Long-term Error: ±15 seconds per month • Maximum Load: 15A, 250VAC resistive load • Connections: Terminal screws • Minimum Load: 100mA, 5VDC • Operating Temperature: -10°C ~ 55°C • 50,000 operations minimum, 15A, 250VAC, resistive load

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Weekly Timer, Track/Chassis Mount Type, 120VAC	Z2503-ND	223.90	207.32	H5S-WFB2
Weekly Timer, Flush Panel Mount Type, 120VAC	Z2504-ND	224.04	207.45	H5S-WB2

Preset Counters

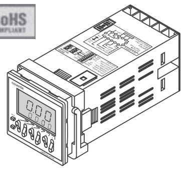

Omron's multifunction counters feature large reverse-lit LCD which can be programmed to change from green to red (or red to green), providing long-range status information. H7CX counters allow users to choose between batch counter, dual counter, single or dual stage preset counter, tachometer or totalizer operation. **Features:** • Highly visible display with backlit negative transmissive LCD • NEMA4/IP66 compliance • 1-2 Stage Counter • Case Color: Black • Reset Indicator: Orange • Key Protection Indicator: Orange • 12VDC External Power Supply • Output Type: Contact • Supply Voltage: 100 ~ 240VAC

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
6 Digit Counter, Relay Out, 11 Octal, 100 ~ 240VAC	Z3041-ND✔	194.05	179.69	H7CX-A11-N AC100-240
6 Digit Counter, Relay Out, 11 Octal, 12 ~ 24VDC/24VAC	Z2738-ND	194.05	179.69	H7CX-A11D1 DC12-24/AC24
6 Digit Counter, Relay Out, 11 Octal, 12 ~ 24VDC/24VAC	Z3042-ND✔	194.05	179.69	H7CX-A11D1N DC12-24/AC24
4 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z3043-ND✔	183.84	170.23	H7CX-A4-N AC100-240
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z3040-ND✔	183.84	170.23	H7CX-A-N AC100-240
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z2374-ND	183.84	170.23	H7CX-AS-AC100-240
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z3045-ND✔	183.84	170.23	H7CX-AS-N AC100-240
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z3046-ND✔	224.70	208.06	H7CX-AW-N AC100-240
6 Digit Counter, Relay Out, Screw Term., 12 ~ 24VDC	Z3044-ND✔	214.08	198.23	H7CX-AD-N DC12-24
6 Digit Counter, Relay Out, Screw Terminal, 12 ~ 24VDC/24VAC, 2 Stage Type	Z2741-ND	224.70	208.06	H7CX-AWD1 DC12-24/AC24
6 Digit Counter, Relay Out, Screw Terminal, 12 ~ 24VDC/24VAC, 2 Stage Type	Z3047-ND✔	208.50	193.06	H7CX-AWD1-N DC12-24/AC24

✔ ***NEW!***

Preset Digital Counters

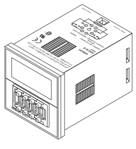

Features:

- Easy-to-read 8mm high LED display
- Uses Omron thumbwheel switching for easy, error-free presets

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
4 Digit, Up Counter, 5kHz, Input, 100 ~ 240VAC	Z2736-ND	256.50	237.50	H7CN-XHN AC100-240
4 Digit, Up Counter, 30Hz, Input, 100 ~ 240VAC	Z2737-ND	256.50	237.50	H7CN-XLN AC100-240
4 Digit, Reversible Counter, 30Hz, Input, 100 ~ 240VAC	Z2735-ND	256.50	237.50	H7CN-BLN AC100-240

Monitoring Control Relays

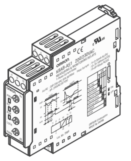

Omron's K8 series of Monitoring Relays are designed for industrial measurements, controls and fault detection.

The **K8AB-AS** are single phase, current monitoring relays to monitor both under-current or over current conditions.

The **K8AB-PH** is a 3 Phase, phase-loss monitoring relay for reventing incorrect motor rotation and incorrect wiring.

The **K8AB-TH** are temperature monitoring relays for detecting upper and lower temperature limits. Selectable for J, K, T, E and Platinum Sensor Inputs.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Current Monitor, Over-Under, 2 ~ 500mA	Z2803-ND	111.75	103.48	96.58	K8AB-AS1-100-115VAC
Current Monitor, Over-Under, 2 ~ 500mA	Z2804-ND	136.46	126.35	117.93	K8AB-AS1-200-230VAC
Current Monitor, 0.1 ~ 8A, Over-Under	Z2805-ND	137.88	127.67	119.16	K8AB-AS2-100-115VAC
Single Phase Monitor, 3PH, 200 ~ 500VAC	Z2806-ND	41.85	38.75	36.17	K8AB-PH1
3 Phase Monitor, 3PH, 380 ~ 480VAC	Z2807-ND	93.43	86.51	80.74	K8AB-PW2
Temp. Monitor, 0 ~ 399°C/F, 100 ~ 240VAC	Z2808-ND	125.39	116.10	108.36	K8AB-TH11S-AC100-240
Temp. Monitor, 0 ~ 399°C/F, 24V	Z2809-ND	125.39	116.10	108.36	K8AB-TH11S-ACDC24
Temp. Monitor, 0 ~ 1700°C, 100 ~ 240VAC	Z2810-ND	125.39	116.10	108.36	K8AB-TH12S-AC100-240
Temp. Monitor, 0 ~ 1700°C, 24V	Z2811-ND	125.39	116.10	108.36	K8AB-TH12S-ACDC24
Single Phase Voltage Relay, 100 ~ 115VAC	Z2992-ND ***NEW!***	105.60	97.79	91.27	K8AB-VS1 100/115VAC
Single Phase Voltage Relay, 24VAC/DC	Z2993-ND ***NEW!***	106.22	98.36	91.80	K8AB-VS1 24VAC/DC
Single Phase Voltage Relay, 100 ~ 115VAC	Z2994-ND ***NEW!***	105.60	97.79	91.27	K8AB-VS2 100/115VAC
Single Phase Voltage Relay, 24VAC/DC	Z2995-ND ***NEW!***	106.22	98.36	91.80	K8AB-VS3 24VAC/DC
SIngle Phase Voltage Relay, 100 ~ 115VAC	Z2996-ND ***NEW!***	105.60	97.79	91.27	K8AB-VS3 100/115VAC

Digital Temperature Controllers

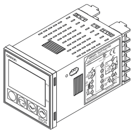

Features: • Voltage outputs (used to drive SSRs) for both heating and cooling control • Can be used for alarms to provide three alarm outputs • Easy setting with 11-segment displays • Connect to either a thermocouple or platinum resistance thermometer with the protection indicator informs operator when protection is enabled • Manual output provided

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Output, 2 Alarms	Z2409-ND	222.59	206.10	192.36	E5CN-R2MT-500 AC100-240
Voltage Output, 2 Alarms	Z2410-ND	222.59	206.10	192.36	E5CN-Q2MT-500 AC100-240

OMRON Programmable Relays — PLC Controller

The ideal solution for managing a wide range of simple applications including: automatic lighting, access control, conveyor positioning, pump control, testing equipment, watering systems, or ventilation systems. **Features**: • Increased functionality in a compact body (70mm wide x 90mm high) • Easy programming is available using the LCD and operation buttons • Single unit easily provides relay, timer, counter, and time switch functions • Expansion is easy with Expansion I/O Units, allowing up to 44 I/O points

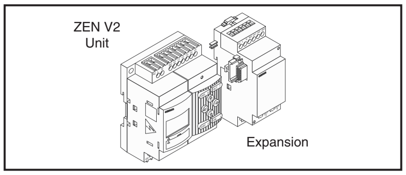

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
CPU Unit with LCD Display, 10 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2678-ND	140.22	129.84	121.19	ZEN-10C1AR-A-V2
CPU Unit with LCD Display, 10 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2679-ND	140.22	129.84	121.19	ZEN-10C1DR-D-V2
CPU Unit with LED Display, 10 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2680-ND	118.40	109.63	102.32	ZEN-10C2AR-A-V2
CPU Unit with LED Display, 10 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2681-ND	118.40	109.63	102.32	ZEN-10C2DR-D-V2
CPU Unit with LCD Display, 20 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2682-ND	187.05	173.20	161.65	ZEN-20C1AR-A-V2
CPU Unit with LCD Display, 20 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2683-ND	187.05	173.20	161.65	ZEN-20C1DR-D-V2
CPU Unit with LED Display, 20 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2684-ND	165.20	152.97	142.77	ZEN-20C2AR-A-V2
CPU Unit with LED Display, 20 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2685-ND	165.20	152.97	142.77	ZEN-20C2DR-D-V2
ZEN Starter Kit, 10 I/O Points with Cable, Software and Manual	Z2686-ND	262.82	243.36	227.14	ZEN-STARTER01-V2
ZEN Starter Kit, 10 I/O Points with Cable, Software and Manual	Z2687-ND	301.78	279.43	260.80	ZEN-STARTER02-V2
Expandable I/O Block, 4 Inputs / 4 Outputs for AC CPU Unit	Z2688-ND	84.83	78.55	73.31	ZEN-8E1AR
Expandable I/O Block, 4 Inputs / 4 Outputs for DC CPU Unit	Z2689-ND	81.01	75.02	70.02	ZEN-8E1DR
ZEN Software Support Package with Manuals	Z2690-ND	59.60	55.19	51.51	ZEN-SOFT01-V4
Battery Unit for 10 year Memory Protection	Z2691-ND	38.12	35.30	32.95	ZEN-BAT01
Connecting Cable, Serial to ZEN Connector, 2 Meters	Z2692-ND	91.12	84.38	78.75	ZEN-CIF01
Memory Expander, EEPROM (used to copy programs to multiple units)	Z2693-ND	34.46	31.91	29.78	ZEN-ME01

E5CSV Digital Temperature Controllers

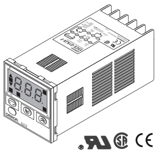

Features: • Accurate to ±0.5% of full scale • Multiple temperature scale ranges allow flexibility to match application • Field-selectable temperature ranges in °F and °C • Selectable ON/OFF and PID control with auto-tuning of proportional band • 8-function alarm, standard • Tamper-proof setting, faulty sensor compensation and controller diagnostics • Easy-to-read 11mm high LED display • Nonvolatile memory backup

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Thermocouple (Types J and K), Voltage Output, 120VAC Blk.	Z2546-ND	194.05	179.69	167.71	E5CSV-Q1T-F-AC100240
Thermocouple (Types J and K), Relay Output, 100 ~ 240VAC	Z2694-ND	194.05	179.69	167.71	E5CSV-R1KJ-W-AC100240
Thermocouple (Platinum), Relay Output, 100 ~ 240VAC	Z2695-ND	194.05	179.69	167.71	E5CSV-R1T-F-AC100240

NEW! E5GN Digital Temperature Controllers

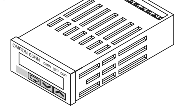

Omron's E5GN Temperature Controllers are 1/32 DIN sized controllers that accept any thermocouple or analog input. These are used for both heating and cooling and also feature NEMA 4X water-resistant construction.

Specifications: • Supply voltage: 100 ~ 240VAC, 50/60Hz • Operating Temperature: -10°C ~ 55°C • Sensor Input: Thermocouple: K, J, T, E, L, U, N, R, S, B, W or PL II • Control Output: Relay Output: SPST-NO, 250VAC 2A (resistive load) • Indication Accuracy: Thermocouple: (±0.5% of indicated value) • Voltage Output: 12VDC±15% (PNP), Maximum Load Current: 21mA, with short-circuit protection

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Temperature Controller Volt Output	Z3048-ND	222.59	206.10	E5GN-Q1TD AC/DC24
Digital Temperature Controller Volt Output	Z3049-ND	213.47	197.66	E5GN-Q1T AC100-240
Digital Temperature Controller Relay Output	Z3050-ND	213.47	197.66	E5GN-R1TD AC/DC24
Digital Temperature Controller Relay Output	Z3051-ND	213.47	197.66	E5GN-R1T AC100-240

E5AK/E5CK Digital Temperature Controllers

Features:
- Advanced digital process with fuzzy logic
- Field configurable outputs and options
- 100 ms sampling (for analog input)
- Advanced PID, or fuzzy self-tuning
- Water-resistant, NEMA 4X, IP66
- Remote set-point with optional event input board
- Set-point ramp
- Heat only or heat/cool control

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Standard Model, 96 x 96mm	Z2412-ND	582.23	539.10	503.16	E5AK-AA2-500
Position-Proportional Model, 96 x 96mm	Z2413-ND	830.59	769.07	717.80	E5AK-PRR2-500
Standard Model, 48 x 48mm	Z2414-ND	387.83	359.10	335.16	E5CK-AA1-500

E5AK

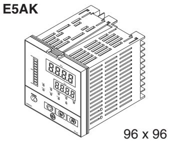

96 x 96

E5CK

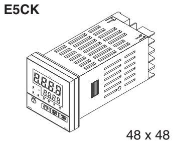

48 x 48

Tyco Electronics P&B Timers/Time Delay Relays

Authorized Distributor

Potter & Brumfield timer relays are versatile time/function adjustable relays for industrial and time delay type applications. By setting the timing mode, selecting the time duration and applying 120VAC to power the timing circuitry, a dry contact relay will trip On or Off at the end of the set time. Delay-On or Delay-Off modes will start upon power up and delay turning the relay output On or Off for the user selected time. Using the Cycle or Repeat Mode will put the timer in a continuous On and Off cycle where the time On and time Off are equal lengths. Model CRB relays enable separate On and Off adjustable times for Cycle timing.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	P&B Part No.
1	Thumbwheel Selectable, Time Delay Relay, 0.1 Second ~ 9.99K Hours, DPDT, 10A, 120VAC, 11 Octal	PB555-ND◆	91.20	79.80	72.20	CNM5
2	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 12VDC, 11 Octal	PB559-ND◆	124.27	108.74	98.39	CNT-35-26
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 120VAC, 11 Octal	PB560-ND◆	124.27	108.74	98.39	CNT-35-76
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 24 ~ 240VAC/VDC, 11 Octal	PB561-ND◆	144.14	126.13	114.12	CNT-35-96
	Mounting Ratchet-fit Clip Slides onto CNT from Behind to Secure CNT in Panel Mount Applications	PB1143-ND◆	20.50	17.94	12.81	SSA-24C667
3	Resistor Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 10A, 120VAC for Socket use 27E893	PB563-ND◆	135.65	118.70	107.39	CLF-41-70010
4	Knob Adjustable, Delay-On Relay, 0.1 ~ 1 Seconds, 120VAC, 8 Octal	PB564-ND◆	125.66	109.96	99.49	CB-1001B-70
	Knob Adjustable, Delay-On Relay, 0.1 ~ 5 Seconds, 120VAC, 8 Octal	PB671-ND◆	125.66	109.96	99.49	CB-1002B-70
	Knob Adjustable, Delay-On Relay, 0.6 ~ 60 Seconds, 120VAC, 8 Octal	PB566-ND◆	125.66	109.96	99.49	CB-1004B-70
	Knob Adjustable, Delay-On Relay, 1.8 ~ 180 Seconds, 120VAC, 8 Octal	PB567-ND	125.66	109.96	99.49	CB-1005B-70
	Knob Adjustable, Delay-On Relay, 10 ~ 100 Minutes, 120VAC, 8 Octal	PB569-ND◆	125.66	109.96	99.49	CB-1007B-70
	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 24VDC, 8 Octal	PB570-ND◆	125.66	109.96	99.49	CB-1028D-30
	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 12VDC, 8 Octal	PB571-ND◆	125.66	109.96	99.49	CB-1047D-20
	Knob Adjustable, Delay-On Release Relay, 1.8 ~ 180 Seconds, 10A, 120VAC, 8 Octal	PB753-ND◆	276.84	242.24	219.17	CDB-38-70005
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VAC, 8 Octal	PB572-ND◆	155.83	136.36	123.37	CHB-38-30001
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds DPDT, 10A, 120VAC, 8 Octal	PB574-ND◆	155.83	136.36	123.37	CHB-38-70001
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB575-ND◆	155.83	136.36	123.37	CHB-38-70002
	Knob Adjustable, Delay-On Relay, 1 ~ 180 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB576-ND◆	155.83	136.36	123.37	CHB-38-70003
	Knob Adjustable Interval Relay, 1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB754-ND◆	155.83	136.36	123.37	CHB-38-70021
	Knob Adjustable Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB755-ND◆	155.83	136.36	123.37	CHD-38-30001
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB577-ND	155.83	136.36	123.37	CHD-38-30002
5	Recycle Time Delay Relay, 0.1 ~ 10 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB580-ND	305.23	267.08	241.65	CRB-48-70010
	Recycle Time Delay Relay, 0.6 ~ 60 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB582-ND◆	305.23	267.08	241.65	CRB-48-70060
6	Screwdriver Adjustable, Time Delay Relay, 4 Function, 0.1 Seconds ~ 10 Hours, with K10 Relay, 120VAC	PB781-ND◆	192.43	168.38	152.35	SSFR90A
	Screwdriver Adjustable, Time Delay Relay, 4 Function, 0.1 Seconds ~ 10 Hours, without K10 Relay	PB782-ND◆	188.14	164.62	148.95	SSFR90X
—	Resistor Adjustable Delay-On Relay, 1 ~ 10 Seconds, 10A, 120VAC, for Socket use 27E893	PB762-ND◆	138.58	121.26	109.71	CUF-41-70010
	Resistor Adjustable Delay-On Relay, 1 ~ 12 Seconds, 10A, 120VAC, for Socket use 27E893	PB763-ND◆	138.58	121.26	109.71	CUF-41-70120
	Knob Adjustable Delay-On Relay, 0.1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB756-ND◆	155.83	136.36	123.37	CKB-38-70010
	Resistor Adjustable Delay-On Relay, 0.1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB757-ND◆	151.34	132.43	119.82	CKF-38-70010

◆ *RoHS Compliant*

Fig. 1 – CNM5 Series

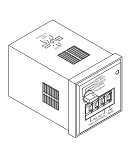

Fig. 2 – CNT Series

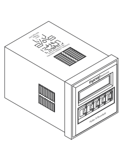

Fig. 3 – CLB and CLF Series

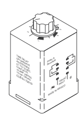

Fig. 4 – CB, CHB, CHD, CDB Series

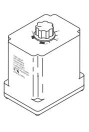

Fig. 5 – CRB Series

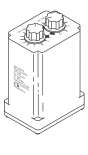

Fig. 6 – SSFR Series

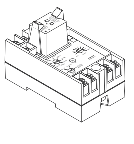

CST CUSTOM SENSORS & TECHNOLOGIES **Crouzet**

Millenium 3 Relay Controllers

RoHS COMPLIANT

Crouzet's latest generation of controllers is the Millenium 3 Logic Controllers. The Millenium 3 is even easier to program for simple timing, counting or control applications such as heating and air controls-zones, greenhouse controls, complex car wash cycles and industrial controls. Starter kit's include everything required to create, communicate and run your ladder logic program. Offered in 3 different versions, Standard type, Expandable type and Economy type.

Dimensions in Inches (mm)

Fig. 1

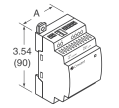

Fig. 2

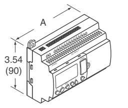

Fig. 3

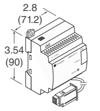

Fig. 4

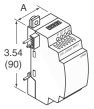

Fig. 5

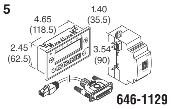

646-1129 Shown

Fig.	Description	Dim. A (mm)	Voltage Supply	Digi-Key Part No.	Price Each 1	10	Crouzet Part No.
1	Economy Mil 3 Controller, No display, 8 In/4 Out, CB12	71.2	24 VDC	646-1091-ND	164.68	150.37	88970021
	Economy Mil 3 Controller, No display, 12 In/8 Out, CB20	124.6	24VDC	646-1093-ND	246.47	225.03	88970031
	Economy Mil 3 Controller, No display, 12 In/8 Out, CB20	124.6	100 ~ 240VDC	646-1094-ND	256.42	234.11	88970033
2	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24 VDC	646-1095-ND	193.37	176.55	88970041
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24 VDC	646-1096-ND	192.32	175.58	88970042
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	100 ~ 240VAC	646-1097-ND	195.68	178.67	88970043
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24VAC	646-1098-ND	193.37	176.55	88970044
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	12VDC	646-1099-ND	193.37	176.55	88970045
	Standard Mil 3 Controller, with LCD Display, 12 In/8 Out, CD20	124.6	24VDC	646-1100-ND	265.26	242.18	88970051
	Standard Mil 3 Controller, with LCD Display, 12 In/8 Out, CD20	124.6	100 ~ 240VAC	646-1101-ND	271.90	248.24	88970053
	Expandable Type Mil 3 Controller, with LCD Display, 6 In/4 Out, XD10	71.2	24VDC	646-1114-ND	205.58	187.70	88970141
	Expandable Type Mil 3 Controller, with LCD Display, 6 In/4 Out, XD10	71.2	24VDC	966-1002-ND✔	247.58	226.05	88974141
	Expandable Type Mil 3 Controller, with LCD Display, 6 In/4 Out, XD10	71.2	24VDC	966-1003-ND✔	221.71	204.47	88974142
	Expandable Type Mil 3 Controller, with LCD Display, 16 In/10 Out, XD26	124.6	24VDC	646-1116-ND	279.63	255.31	88970161
	Expandable Type Mil 3 Controller, with LCD Display, 16 In/10 Out, XD26	124.6	100 ~ 240VAC	646-1117-ND	289.58	264.39	88970163
	Millenium 3 Starter Kits						
—	Millenium 3 Starter Kit, 8 In/4 Out	—	24VDC	646-1102-ND	290.57	265.29	88970080
	Millenium 3 Starter Kit, 8 In/4 Out	—	100 ~ 240VAC	646-1103-ND	298.16	272.23	88970081
	Millenium 3 Starter Kit, 12 In/8 Out	—	24VDC	646-1104-ND	311.47	284.38	88970082
	Millenium 3 Starter Kit, 12 In/8 Out	—	100 ~ 240VAC	646-1105-ND	364.74	333.02	88970083
	Millenium 3 Starter Kit, Expandable Type, 16 In/10 Out	—	24VDC	646-1106-ND	320.74	292.85	88970084
	Millenium 3 Starter Kit, Expandable Type, 16 In/10 Out	—	100 ~ 240VAC	646-1107-ND	331.16	302.36	88970085
	Millenium 3 Accessories						
—	M3 Bluetooth Interface Module	—	—	646-1110-ND	253.58	231.52	88970104
	M3 EEPROM Memory Cartridge	—	—	646-1111-ND	48.16	43.98	88970108
	USB Cable to Millenium 3, 3 meter	—	—	646-1112-ND	102.63	93.71	88970109
	USB Bluetooth Adapter	—	—	966-1007-ND✔	176.84	161.46	88970110
	Face Plate Kit IP67 Sealed: CD12 or XD10	—	—	966-1008-ND✔	62.21	56.81	89750160
	Face Plate Kit IP40: CD12 or XD10	—	—	966-1009-ND✔	57.20	52.23	88970810
3	Modbus Modem Interface Module	—	—	646-1113-ND	281.84	257.32	88970117
	Converter Module, 0-20mA/0-10VDC, Din Mount	—	—	646-1079-ND	62.86	57.39	88950108

Fig.	Description	Dim. A (mm)	Voltage Supply	Digi-Key Part No.	Price Each 1	10	Crouzet Part No.
3	Converter Module, PWM/0-10VDC, Din Mount	—	—	646-1080-ND	80.71	73.69	88950112
	Temperature Converter Module, PT1000/ PT100 J and K Inputs	—	—	646-1081-ND	100.58	91.84	88950150
	Temperature Converter Module, J Type Thermocouple	—	—	646-1083-ND	100.58	91.84	88950154
	Temperature Converter Module, K Type Thermocouple	—	—	646-1084-ND	100.58	91.84	88950155
	XA04 Analog Extension Module, 2 Analog In/2 Analog/PWM Out	—	24VDC	646-1124-ND	208.90	190.72	88970241
	XN03 Modbus RS-485 Slave Communication Extension	—	24VDC	646-1125-ND	160.26	146.32	88970250
	XN05 Ethernet Slave Communication Extension	—	24VDC	646-1126-ND	289.58	264.39	88970270
	Relay Expander Module, No display, 4 On/Off/2 Out, XR06	71.2	24VDC	646-1118-ND	100.58	91.84	88970211
	Relay Expander Module, No display, 4 On/Off/2 Out, XR06	71.2	100 ~ 240VAC	646-1119-ND	102.79	93.84	88970213
	Relay Expander Module, No display, 6 On/Off/4 Relay, XR10	71.2	24VDC	646-1120-ND	117.16	106.97	88970221
	Relay Expander Module, No display, 6 On/Off/4 Relay, XR10	71.2	100 ~ 240VAC	646-1121-ND	118.26	107.97	88970223
	Relay Expander Module, No display, 8 On/Off/6 Relay, XR14	124.6	24VDC	966-1006-ND	128.21	117.07	88970231
	Relay Expander Module, No display, 8 On/Off/6 Relay, XR14	124.6	100 ~ 240VDC	646-1123-ND	130.42	119.08	88970233
	Relay Expander Module, 6TOR/4 Relay, XE10	—	24VDC	646-1127-ND	117.16	106.97	88970321
	Relay Expander Module, 6TOR/4 Relay, XE10	—	100 ~ 240VAC	646-1128-ND	157.68	143.98	88970323
	Network Communication Module MIL3 XN07	—	24VDC	966-1004-ND✔	201.98	186.27	88974250
	Modbus RS-485 Slave Communication Extension	—	24VDC	966-1005-ND✔	183.47	167.52	88972250
4	Power Supply, Switch Mode, 7.5W, 24VDC	36	100 ~ 240VAC	646-1086-ND	105.00	95.87	88950303
	Power Supply, Switch Mode, 15W, 24VDC	36	100 ~ 240VAC	646-1087-ND	101.68	92.85	88950304
	Power Supply, Switch Mode, 20W, 5VDC	54	100 ~ 240VAC	646-1088-ND	113.84	103.94	88950305
	Power Supply, Switch Mode, 25W, 12VDC	54	100 ~ 240VAC	646-1089-ND	113.84	103.94	88950306
	Power Supply, Switch Mode, 30W, 24VDC	54	100 ~ 240VAC	646-1090-ND	113.84	103.94	88950307
	Power Supply, Switch Mode, 60W, 24VDC	72	100 ~ 240VAC	646-1085-ND	145.89	133.20	88950302
	HMI Interactive Display Kits						
—	Display High-Resolution Color Touch Panel Kit, 110 x 72mm			966-1000-ND✔	911.55	832.25	88970436
	Display High-Resolution Color Touch Panel Kit, 110 x 92mm			966-1001-ND✔	656.00	598.93	88970456
	Display Remote LCD/Keypad Kit, 96.9 x 72.8mm			966-1010-ND✔	434.74	396.93	88970413
5	Display 3 Color Remote LCD Kit, 132 x 74mm			646-1129-ND	878.95	802.48	88970421
	Display Monochrome Remote LCD Kit, 132 x 74mm			646-1130-ND	610.53	557.42	88970422
	Display 3 Color Remote LCD Kit with Software, 132 x 74mm			646-1131-ND	325.65	321.65	88970844
	Display Monochrome Remote LCD Kit with Software, 132 x 74mm			646-1132-ND	458.69	453.05	88970849

✔ NEW!

Monitor Relays

RoHS COMPLIANT

Crouzet's Industrial monitoring relays are preset able liquid level, voltage, current or phase monitoring relays. Liquid level monitoring relays are designed for the purpose of filling or emptying liquid storage containers. Use voltage and current relays for the purpose of monitoring over voltage/current or under voltage/current conditions. Phase monitoring relays are designed for the purpose of monitoring correct phase and phase failure conditions.

Dimensions in Inches (mm)

Fig. 1

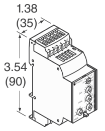

Fig. 2

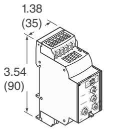

Fig. 3

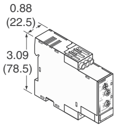

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Crouzet Part No.
1	3-Phase Failure, Sequence Detection Relay	646-1133-ND	193.42	176.60	84873020
	3-Phase Failure, Sequence Detection Relay	646-1134-ND	101.68	92.85	84873022
	3-Phase Failure, Sequence, Undervoltage, Detection	646-1135-ND	104.08	95.04	84873023
	3-Phase Failure, Sequence, Imbalance Detection	646-1136-ND	136.42	124.55	84873024
	3-Phase Failure, Sequence, Over/Under Voltage, Detection	646-1138-ND	157.24	143.56	84873026
	3-Phase Failure, Under/Over Voltage	646-1139-ND	143.34	130.88	84873220
	3-Phase Failure, Under/Over Voltage	646-1140-ND	148.93	135.98	84873221
2	Voltage Relay, 120VAC, Under/Over Voltage	646-1141-ND	99.47	90.82	84872023
	Voltage Relay, 120VAC, Under/Over Voltage	646-1142-ND	99.47	90.82	84872033
	Voltage Relay, 24 ~ 240VAC, Under/Over Voltage	646-1143-ND	144.20	131.66	84872120
	Voltage Relay, 24 ~ 240VAC, Over/Under Voltage	646-1144-ND	143.12	130.66	84872130
	Voltage Relay, 110 ~ 240VAC, Over/Under Voltage	646-1145-ND	105.17	96.02	84872142
	Voltage Relay, 110 ~ 240VAC, Over/Under Voltage	646-1146-ND	104.08	95.04	84872152
	Voltage Relay, 110VAC, Over/Under Voltage	646-1147-ND	86.21	78.72	DUR110A
3	Current Relay, 110VAC, .2 ~ 500mA	646-1148-ND	105.00	95.87	84871023

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Crouzet Part No.
3	Current Relay, 110VAC, 0.1 ~ 10A	646-1149-ND	105.00	95.87	84871033
	Current Relay, 24 ~ 240V, 2 ~ 500mA	646-1150-ND	147.00	134.22	84871120
	Current Relay, 2 ~ 20A, with built in Current Transformer	646-1151-ND	136.61	124.74	84871122
	Current Relay, 0.1 ~ 10A, with built in Current Transformer	646-1152-ND	165.88	151.46	84871130
	Current Relay, 5 ~ 100A	646-1153-ND	86.21	78.72	DIART110A
	Current Sensor 100A Mod	646-1154-ND	37.98	34.68	74525305
	Current Transformer for LIRT/DIART, 5 ~ 100A, 11 Octal	646-1155-ND	92.84	84.76	LIRT110A
—	Frequency Relay 50 ~ 60Hz	646-1156-ND	149.62	136.61	84872501
	Speed Control, over/under	646-1157-ND	149.21	136.24	84874320
	Alternating Relay, Impulse, 110VAC, 11 Octal	646-1158-ND	72.95	66.60	LJR2110A
	Alternating Relay, Impulse, 110VAC, 11 Octal	646-1159-ND	72.95	66.60	LJRS2110A
	Alternating Relay, Impulse, 110VAC, 8 Octal	646-1160-ND	48.63	44.41	PJR110A
	Alternating Relay, Impulse, 110VAC, 8 Octal	646-1161-ND	75.16	68.63	PJRS110A

Control Relays

RoHS COMPLIANT

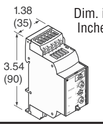

Dim. in Inches (mm)

Crouzet's liquid level control relay's are designed for control of upper and lower liquid levels. The resistive probe style is for conductive liquids measuring the resistance of two submerged probes. The level switch type uses a contact closure for control of the upper and lower liquid levels. Internal control relay is rated at 5A, SPDT for turning on pumps or larger relays. **Specifications:** Wide input voltage: 24 ~ 240VAC/DC

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Liquid Level, Resistive Probe Input, Din Mount	646-1163-ND	150.32	137.24	130.62	84870700
Liquid Level, Float Switch Input, Din Mount	646-1164-ND	154.00	140.61	133.83	84870710
Liquid Level Pump Control, 120VAC, Din Mount	646-1162-ND	65.21	59.55	56.68	84870203
Liquid Level Pump Control, 120VAC, Din Mount, With time delay	646-1220-ND ***NEW!***	90.96	83.05	79.05	84870213
Pump Down Control, 8 Octal, 110VAC	646-1165-ND	58.58	53.49	50.91	PNR110A
Pump Up Control, 8 Octal, 110VAC	646-1166-ND	56.37	51.46	48.98	PNRU110A
Din Rail Socket, 8 Octal	646-1167-ND	7.52	6.86	6.53	S08

Totalizing Counters

Crouzet's fully integrated totalizing counter or total cumulative time counters. Choose between no-voltage inputs (contact closure) or wide in put voltage inputs (AC/DC) for count inputs or for enabling the time duration for the time counters. Presetable counters have internal output relay to trigger when preset count is reached. All counters are cUL and CE approved.

Specifications:
• Power: Lithium Battery • Count Inputs: Contact Closure (slow speed), Voltage Input (high speed) • Low Speed: 40Hz • Minimum Pulse: 12ms • High Speed: 7kHz, 4VDC ~ 30VDC • Connections: Screw Terminals • Operating Temperature: 32°F ~ 131°F

Dimensions in Inches (mm)

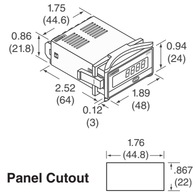

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Counter, Voltage Input, 8 Digit, 40cps max.	646-1194-ND	124.08	115.34	109.78	87610050
Total Time Indicator, Voltage Input, 6 Digit, Hrs.	646-1195-ND	124.08	115.34	109.78	87610150
Counter, No Voltage Input, 8 Digit	646-1196-ND	44.95	41.79	39.77	87610340
Total Time Indicator, No Voltage Input, 6 Digit	646-1197-ND	44.95	41.79	39.77	87610440
Presetable Counter, 115VAC, LCD, SPDT	646-1198-ND	287.68	267.43	254.54	87620113
Presetable Counter, 115VAC, LCD, DPDT	646-1199-ND	334.74	311.17	296.18	87620123

NEW! Industrial Pneumatics

Crouzet pneumatics are used to control the functions of pneumatically powered process machinery and robotics for industry. Some of the most common air powered replacement switches, valves and detection devices are shown. Intrinsically safe valves are for hazardous working areas where explosion proof requirements are mandated. Position detectors are air powered switches for detecting the presence of objects.

Dimensions in mm

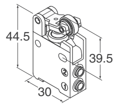

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Intrinsically safe solenoid valve, (Impulse) 24V	966-1011-ND	115.79	105.71	100.62	81519335
Memory element with override and indicator	966-1012-ND	68.42	62.47	59.46	81523601
Pneumatic Switch NC with Roll Lever	966-1013-ND	55.79	50.93	48.48	81921702
Pneumatic relay for two-hand control machinery	966-1014-ND	191.57	174.92	166.49	81580101
Pneumatic Switch SPDT 2-8 bar	966-1015-ND	46.95	42.87	40.80	81513552

Analog Timer Controls

Crouzet's Chronos series of timers are their newest timers with improved features such as greater accuracy, LED status indicator, 3 wire sensor control option and a heavy duty 10A relay. Perfect for all delay-on/off functions as well as Interval timing, repetitive cycle timing and remote triggered sequence timing. All timers are cUL and CE approved.

Dimensions in Inches (mm)

Fig. 1 – 22mm Panel Mount *NEW!*

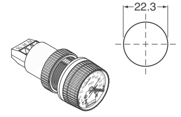

Fig. 2 – 814 Series

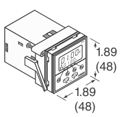

Fig. 3 – TMR48

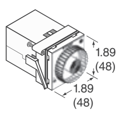

Fig. 4 – Chronos 2

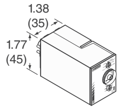

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
1	Analog Timer, Delay on make, 24V ~ 240V .05~10 Sec	646-1225-ND✔	77.17	69.18	65.84	88901322
	Analog Timer, Delay on make, 24V ~ 240V .3~60 Sec	646-1226-ND✔	77.17	69.18	65.84	88901342
	Analog Timer, Delay on make, 24V ~ 240V 3-60 min	646-1219-ND✔	37.27	33.42	31.81	88901392
2	Digital Timer, 6 Mode, 24V ~ 220V, 8 Octal	646-1168-ND	165.05	147.96	140.83	88857005
	Digital Timer with Backlight, 24V ~ 220V	646-1169-ND	199.22	178.59	169.98	88857607
	Digital Timer with Backlight, 11 Octal	646-1222-ND✔	165.05	147.96	140.83	88857003
	Digital Timer with Backlight, 11 Octal	646-1224-ND✔	165.97	148.79	141.62	88857103
	Digital Timer with Backlight, 11 Octal	646-1223-ND✔	165.05	147.96	140.83	88857105
3	Analog Timer, 6 Mode, 12V ~ 240V, 11 Octal	646-1170-ND	75.03	67.27	64.03	88886016
	Analog Timer, Delay on only, 12V ~ 240V, 8 Octal	646-1171-ND	70.86	63.53	60.47	88886106
	Analog Timer, 4 Mode, 12V ~ 240V, 11 Octal	646-1172-ND	80.59	72.25	68.77	88886516
	Analog Din Rail Timer, 10 Mode, 24V ~ 240V	646-1173-ND	59.68	53.51	50.93	88826105
	Analog Din Rail Timer, Delay On, 24V ~ 240V	646-1174-ND	51.88	46.52	44.28	88826115
	Analog Din Rail Timer, Single Shot, 24V ~ 240V	646-1175-ND	48.90	43.83	41.72	88826125
	Analog Din Rail Timer, Delay On, 24V ~ 240V	646-1176-ND	48.90	43.83	41.72	88826135
	Analog Din Rail Timer, Interval, 24V ~ 240V	646-1177-ND	43.86	39.31	37.42	88826145
	Analog Din Rail Timer, Repeat Cycle, 24V ~ 240V	646-1178-ND	60.39	54.14	51.53	88826155
	Analog Din Rail Timer, Multifunction, 12V ~ 240V	646-1179-ND	72.53	65.01	61.88	88826103
	Analog Timer, Multifunction, 24V ~ 240V, 8 Octal	646-1186-ND	59.68	53.51	50.93	88867105
	Analog Timer, Delay On, 24V ~ 240V, 8 Octal	646-1187-ND	61.32	54.97	52.32	88867135
	Analog Timer, Repeat Cycle, 24V ~ 240V, 8 Octal	646-1188-ND	74.08	66.42	63.22	88867155
	Analog Timer, Delay On, 8 Octal	646-1189-ND	67.34	60.36	57.45	88867215
	Analog Timer, Repeat Cycle, 8 Octal	646-1190-ND	80.72	72.36	68.88	88867801
	Analog Timer, Multifunction, 8 Octal	646-1191-ND	66.58	59.68	56.81	88867100
	Analog Timer, Multifunction, 11 Octal	646-1192-ND	84.00	75.30	71.67	88867305
	Analog Timer, Repeat Cycle, 11 Octal	646-1193-ND	78.47	70.36	66.97	88867455
	Analog Timer, Multifunction, Relay, 11 Octal	646-1185-ND	74.11	66.44	63.24	88865103
	Analog Timer, Multifunction, Relay, 8 Octal	646-1221-ND✔	79.89	71.62	68.17	88886116
4	Chronos Din Rail Timer, Delay On, 24V ~ 240V	646-1180-ND	43.31	38.82	36.95	88865115
	Chronos Din Rail Timer, Repeat Cycle	646-1181-ND	63.42	56.86	54.12	88865155
	Chronos Din Rail Timer, Delay On, 24V ~ 240V	646-1182-ND	62.53	56.05	53.35	88865215
	Chronos Din Rail Timer, Delay Off, 24V ~ 240V	646-1183-ND	112.00	100.40	95.56	88865265
	Chronos Din Rail Timer, Multifunction	646-1184-ND	84.00	75.30	71.67	88865305

✔ ***NEW!***

Hour Meters and Counters

Curtis Modules are ideally suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance, scheduling, warranty validation and renting/leasing. No moving parts or motor driven digits to wear out. Non-volatile memory can be powered down and not lose hours counted. Counting starts with enable connection and counts display when power is applied to the meter. External reset is standard. The counters can be used in vending machines, medical equipment, fuel pumps, office equipment, flow instruments, consumer products and many other applications. Operating Type: • 2 wire units (700 Series) start timing when supply power is applied • 3 wire units (701 Series) start timing when 3rd lead (enable lead) has power applied

Features: • Wide voltage range • AC/DC operation on most products • Input Frequency of 500Hz on DC counters • Exceptional reliability due to non-volatile (EEPROM) memory which can retain data for 25+ years **Specifications:** • Resolution: 99,999.9 hours • Accuracy: ±0.1% hours • Mechanical Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C

703 Series: 6-digit Pulse Counter module with 5mm (.197") high digits, non-backlit. **Specifications:** • Resolution: 999,999 Counts • Accuracy: ±1 count • Mechanical Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C

Fig.	Operating Mode	Operating Type	Operating Voltage DC	AC	Reset	Digi-Key Part No.	Price Each 1	50	100	Curtis Part No.
1	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Non	267-1058-ND◆	40.91	30.30	25.00	701QN00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Non	267-1059-ND◆	40.91	30.30	25.00	701RN001048150D100230A
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1001-ND◆	53.87	39.90	32.92	701QR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1002-ND◆	42.39	31.40	25.91	701QR001048150D100230A
2	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1003-ND◆	28.22	20.90	17.25	701FR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1004-ND◆	28.22	20.90	17.25	701FR001048150D100230A
3	Hour Meter	2 Wire	48 ~ 150	100 ~ 230	Non	267-1062-ND◆	26.60	19.70	16.26	700ZN001N48150D100230A
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1057-ND◆	28.22	20.90	17.25	701ZR001N1248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1046-ND◆	28.22	20.90	17.25	701ZR001N48150D100230A
4	Hour Meter	2 Wire	12 ~ 48	20 ~ 60	Elect	267-1039-ND◆	35.51	26.30	21.70	700DR00101248D2060A
	Hour Meter	2 Wire	48 ~ 150	100 ~ 230	Elect	267-1042-ND◆	45.23	33.50	27.64	700DR001048150D100230A
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1005-ND◆	35.51	26.30	21.70	701DR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	10 ~ 230	Elect	267-1006-ND◆	35.51	26.30	21.70	701DR001048150D100230A
	Counter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1008-ND◆	35.51	26.30	21.70	703DR001048150D100230A
5	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Non	267-1026-ND†	23.49	17.40	14.36	700LN001N48150D100230A
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Non	267-1028-ND†◆	29.97	22.20	18.32	700LN001N1248D2060A
6	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1048-ND	51.00	36.98	33.15	701SR601048150D100230A
7	Hour Meter	3 Wire	5 ~ 12	—	Elect	267-1009-ND◆	28.35	21.00	17.33	701PR-102
	Hour Meter	3 Wire	12 ~ 48	—	Elect	267-1010-ND◆	28.35	21.00	17.33	701PR-112
	Counter	3 Wire	5 ~ 12	—	Elect	267-1011-ND◆	27.54	20.40	16.83	703PR-10

◆ ***RoHS Compliant*** **† Order Mating Connector separately.** Housing WM1784-ND; Contacts: 20AWG - 24AWG (WM1837-ND), 26AWG - 30AWG (WM1838-ND)

Dimensions in Inches (mm)

Fig. 1 – 2" Round

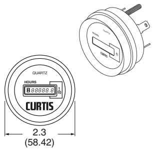

Fig. 2 – Mini with MNT Ears

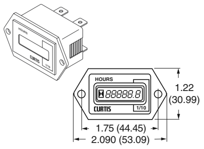

Fig. 3 – Mini without MNT Ears

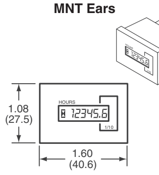

Fig. 4 – Standard Size

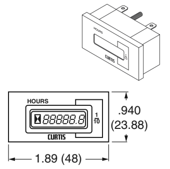

Fig. 5 – Standard Size with Connector

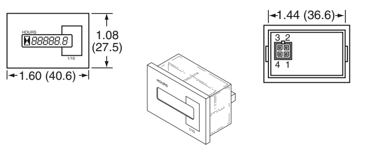

Fig. 6 – 1/16 Din Size

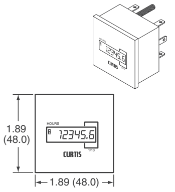

Fig. 7 – PCB MNT

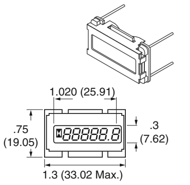

Hour Meters

The Cramer line of ETIs (Elapsed Time Indicators) are used to record the amount of “on-time” operation for industrial and commercial grade equipment. Resettable and Non-resettable versions are available either in round or square bezel, displayed in tenths of an hour. **Applications:** • Indicating, monitoring and recording a process where the time used is required • Recording “on-time” usage of machinery for billing purposes • Preventative maintenance for machinery or equipment **Features:** • Large, easy-to-read numbers • Rugged design • Continuous duty • Tamper proof • Permanently lubricated • Square, round or rectangle bezel **Specifications:** • Power Consumption: 2.7 watts • Working Voltage: 110VAC/115VAC • Electrical Connections: 6” leads, 22 gauge wire • Operating Temperature: -20°C ~ 55°C • Mounting: Front panel • Agency Approval: UL, CSA

		Dimensions - Inch (mm)			Price Each			
Fig.	**Description**	**A**	**B**	**Digi-Key Part No.**	**1**	**10**	**50**	**Cramer Part No.**
1	Square Bezel, 0 ~ 99.9K hours, 110VAC, Non-resettable	2.687 (68.25)	2.25 (57.15)	CRA215-ND	35.93	31.40	28.37	10186
	Square Bezel, 0 ~ 9.9K hours, 115VAC, Resettable	2.687 (68.25)	2.25 (57.15)	CRA217-ND	75.37	65.86	59.51	10083
2	Round Bezel, 0 ~ 99.9K hours, 115VAC, Non-resettable	2.96 (75.39)	—	CRA214-ND	35.93	31.40	28.37	10071
	Round Bezel, 0 ~ 9.9K hours, 115VAC, Resettable	2.96 (75.39)	—	CRA216-ND	75.37	65.86	59.51	10075
	Quartz Style Round Bezel, 0 ~ 99K hours, 90 ~ 264VAC	2.799 (71.1)	—	CRA219-ND	23.75	20.75	18.75	637-04
	Quartz Style Round Bezel, 0 ~ 99K hours, 10 ~ 80VDC	2.799 (71.1)	—	CRA220-ND	24.32	21.25	19.20	638-01
3	Quartz Style Rectangle Bezel, 0 ~ 99K hours, 90 ~ 264VAC	1.750 (44.5)	1.031 (26.2)	CRA218-ND	23.75	20.75	18.75	637-01
	Quartz Style Rectangle Bezel, 0 ~ 99K hours, 10 ~ 80VDC	1.750 (44.5)	1.031 (26.2)	CRA221-ND	24.32	21.25	19.20	638-04

Fig. 1

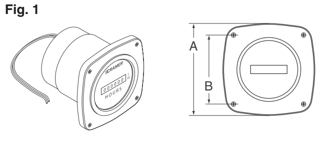

Fig. 2

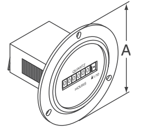

Fig. 3

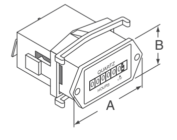

QM Series 2-Wire Panel Meters

The QM Single Mounting Hole Series are Nema 4 rated meters for simple commercial and industrial applications. To install, the user needs only to drill a single 7/32” (5.5mm) hole in the panel. A rubber seal is included, providing splash-proof protection for the unit when fitted to the meter during installation. Includes: meter, mounting nut, washer and panel seal. All meters have reverse polarity protection. **QM Voltmeter:** 2-wire voltmeter powered from the voltage that it is measuring. The module indicates “LO” at voltages below 4V and “HI” at above 25V (40V for QM100V-40). **Specifications:** • Measured Input Voltage: 4 ~ 25VDC (QM100V), 4 ~ 40VDC (QM100V-40) • Supply Voltage: 3 ~ 50VDC • Sample Rate: 3 samples/second • Operating Range: 0°C ~ 50°C

Dim. in Inch (mm)

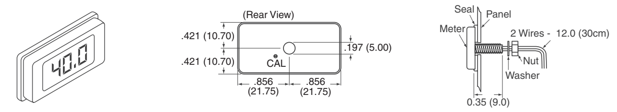

Description	**Digi-Key Part No.**	**Price Each**	**Martel Part No.**
Voltmeter 4 ~ 25VDC, 100mV resolution	227-1042-ND	46.16	QM100V
Voltmeter 4 ~ 40VDC, 200mV resolution	227-1054-ND	46.16	QM100V-40
Thermometer, Inside/Outside -10°C ~ 50°C	227-1043-ND	46.16	QM110T
Hourmeter; 9,999.9 hour trip/totalized time	227-1044-ND	46.16	QM120C
LCD Analog Gauge, moving LCD needle	227-1045-ND	36.44	QM130M
Universal Scalable Meter, Volt/Current	227-1046-ND	55.44	QM140V

Series 10 Universal Volt/Ammeter

The DPM1, 2 and 3AS-BL features 200mVDC measurement with auto-zero and auto-polarity. Decimal points are user selectable. The DPM1, 2 and 3AS-BL feature a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. LED backlighting ensures excellent readability under low light conditions. The design of the housing allows the module to be easily snapped into a panel. The low cost module will suit high and low volume applications.

Dim. in Inch (mm)

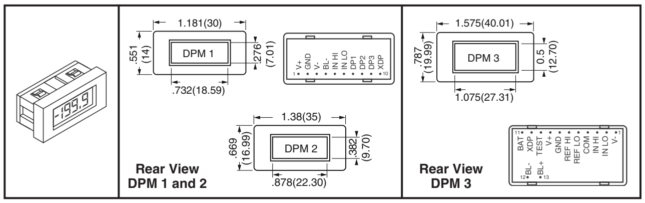

		Price Each			
Description	**Digi-Key Part No.**	**1**	**5**	**10**	**Martel Part No.**
Mini 5.5mm LCD Universal Meter with Backlight	227-1047-ND	63.60	60.42	57.24	DPM1AS-BL
Mini 8.2mm LCD Universal Meter with Backlight	227-1048-ND	68.76	65.33	61.89	DPM2AS-BL
Mini 11mm LCD Universal Meter with Backlight	227-1049-ND	72.26	68.65	65.04	DPM3AS-BL

Very Low Cost Voltmeter

Martel’s line of low cost OEM meters are universal 3.5 digit Digital Panel Meters for both panel mounting applications or PCB mounted applications. Units feature scalable ready PCB traces with selectable annunciator and low battery annunciators. All meters include bezel kits, auto-zero functions and user selectable decimal points.

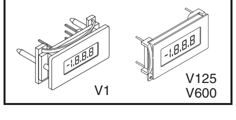

		Price Each			
Description	**Digi-Key Part No.**	**1**	**5**	**10**	**Martel Part No.**
Mini LCD Voltmeter, .25” digit height, 200mV Input, Includes Bezel	227-1059-ND◆	26.20	24.89	23.58	V1
Standard LCD Voltmeter, .50” digit height, 200mV Input, Includes Bezel	227-1060-ND◆	28.10	26.70	25.29	V125
Large LCD Voltmeter, .60” digit height, 200mV Input, Includes Bezel	227-1061-ND◆	30.16	28.66	27.15	V600
Compact Differential LCD DPM, 12.5mm digit 20V Input	227-1011-ND	94.16	89.46	84.75	DPM500-20
Standard LCD Single Rail DPM, 12.5mm digit 2V Input	227-1016-ND◆	94.16	89.46	84.75	DPM500S-2
Standard LCD Single Rail DPM, 12.5mm digit 20V Input	227-1017-ND◆	97.66	92.78	87.90	DPM500S-20
Standard LCD Single Rail DPM, 12.5mm digit 20V Input	227-1023-ND◆	82.06	77.96	73.86	DPM600-20

◆ ***RoHS Compliant***

HOBBS Hour Meters

The 98000 Series LCD Hour Meters:

Provides a large easy-to-read display in a conventional size package. **Specifications:** • Operating Temperature: -40°C ~ 85°C • Operating Voltage: 9 ~ 64VDC • 6 digit display • Digit Height: 6mm

The 20000 Series Deluxe Hour Meters:

Totally sealed and benefits from an uncommon design which integrates the motor and frame into one substructure. **Specifications:** • Operating Temperature: -54°C ~ 68°C • Number Size: 3mm • UL Listed • CSA Certified

The 82000 Series Diochron Hour Meters:

Meter must be moisture resistant when submerged in water at 150°F for 3 minutes. **Specifications:** • Operating Voltage: 10 ~ 80VDC

Fig. 1

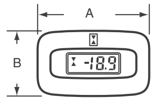

Snap-in Mount:
Panel Cut-out: 1.43 x 0.91
Rectangular Opening

Fig. 2

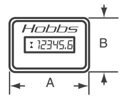

Retainer Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening

Fig. 3

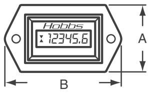

Panel Cut-out: 1.45 x 0.95
Rectangular Opening
(2) 0.15 holes spaced 1.750

Fig. 4

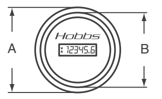

Retainer Mount 2.27
Panel Cut-out: 2.00
Diameter Opening

Fig. 5

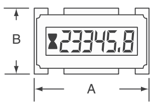

Four-Pin Mount:
Panel Cut-out: .300 x .583
Rectangular Opening

Fig. 6

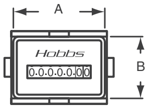

Retainer Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening

Fig. 7

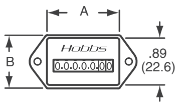

Two-Screw Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening
(2) 0.15 holes spaced 1.750

Fig. 8

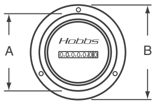

Three-Screw Mount:
Panel Cut-out: 2.00
Diameter Opening
(3) 0.125 holes equally spaced
on 2.42 bolt circle diameter

		Dimensions Inch (mm)			Price Each			
Fig.	**No. of Terminals**	**A**	**B**	**Digi-Key Part No.**	**1**	**10**	**25**	**Honeywell Part No.**
				98000 Series — LCD Hour Meters				
1	2	2.1 (52.12)	1.18 (30.07)	700-1003-ND	32.25	25.66	24.04	098203 99
	2	2.1 (52.12)	1.18 (30.07)	700-1004-ND	31.11	24.75	23.19	098204 99
2	2	1.60 (40.6)	1.08 (27.4)	480-2069-ND	30.28	24.09	22.57	098311 57
	4	1.60 (40.6)	1.08 (27.4)	480-2068-ND	33.77	26.86	25.17	098301 94
3	2	1.25 (31.8)	2.13 (54.1)	480-2066-ND	32.63	25.96	24.32	098313 12
	3	1.25 (31.8)	2.13 (54.1)	480-2067-ND	34.15	27.16	25.45	098323 81
	4	1.25 (31.8)	2.13 (54.1)	480-2065-ND	34.68	27.59	25.85	098303 92
4	2	2.27 (57.7)	2.00 (50.8)	480-2072-ND	36.19	28.79	26.98	098312 03
	3	2.27 (57.7)	2.00 (50.8)	480-2073-ND	39.61	31.51	29.52	098322 93
	4	2.27 (57.7)	2.00 (50.8)	480-2071-ND	39.61	31.51	29.52	098302 93
5	4	1.26 (32.0)	.712 (18.08)	700-1000-ND	23.52	18.72	17.54	098755 100
				20000 Series — Deluxe Hour Meters				
6	2	1.60 (40.6)	1.08 (27.4)	480-2080-ND	50.83	42.11	40.30	020116 23
7	2	1.398 (35.5)	1.02 (25.9)	480-2078-ND	35.43	28.19	26.41	020001 17
8	2	2.19 (55.6)	2.70 (68.6)	480-2079-ND	39.08	31.09	29.13	020017 14
				82000 Series — Diochron Hour Meters				
6	2	1.55 (39.4)	1.03 (26.2)	480-2076-ND	30.28	24.09	22.57	082452 82
7	2	1.41 (35.8)	1.25 (31.8)	480-2074-ND	30.28	24.09	22.57	082450 83
8	2	1.98 (50.3)	2.24 (56.9)	480-2075-ND	30.28	24.09	22.57	082451 84
	2	1.98 (50.3)	2.80 (71.1)	480-2077-ND	30.28	24.09	22.57	082453 85

Digital Panel Meters

Fig. 1 — 1/8 Din Big Digit Panel Mount

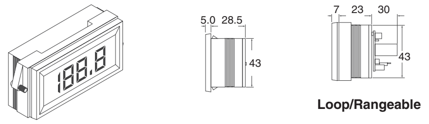

Fig. 2 — Window/Surface Mount LCD

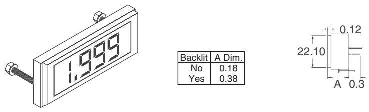

Fig. 3 — Snap-in LCD

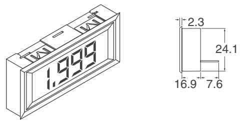

Fig. 4 — Snap-in LCD
1" (25.4mm) CUT-OUT!

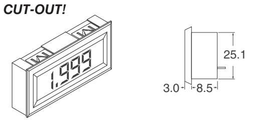

Fig. 5 — Mini LCD

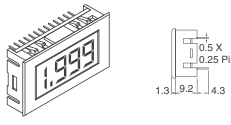

Fig. 6 — Flat Pack LCD

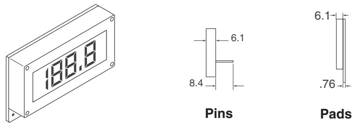

Fig. 7 — LCD Window/Surface Mount

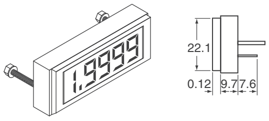

Fig. 8 — Panel Mount LED

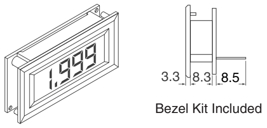

Fig. 9 — DIP Panel Meter LED

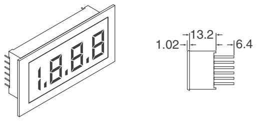

Fig. 10 — Process Meter

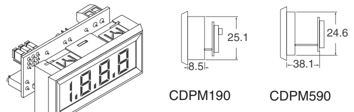

(Loop Powered - No external voltage required.)

CTON Digital Panel Meters are low cost, professional looking meters for industrial and OEM applications. Voltmeter versions feature autozero on power up and can read both positive and negative DC voltages. Selectable decimal points allow easy voltage readings. LCD versions are available in either non-backlit (std. LCD) or backlit (Red, Green or Blue) for low light viewing. CTON's 4-20mA loop type meters are intended to interface with sensor inputs that require power from the meter to operate.

Sensors such as temperature, pressure, gas, airflow vibration, etc. can be used for loop meter monitoring. Use LCD meters for low power applications and long lifetimes or use LED versions for easier viewing in varying light conditions and different angles.

3.5 Digit LCD ***Specifications:*** • **Decimal Point:** User selectable 3-position • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Power:** 9VDC isolated @ 180µA, 5VDC @ 3mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -10°C ~ 50°C • **Type:** Surface Mount • **Pins:** 13 or 10 pins, .64mm square on 2.54mm centers • **Backlit Power Options:** +5 VDC, ±5%, Red 165mA typical (200mA maximum); Green 115mA typical (160mA maximum) • **Backlit Connections:** Standard 2 solder pads • **Styles:** Surface/window or snap-in bezel mount

Miniature LCD ***Specifications:*** • **Annunciators:** 11 different user selectable annunciators: BAT, °C, °F, ~, m, µ, MΩ, KΩ, V, A, HOLD • **Decimal Point:** User selectable 3-position • **Full Scale Range:** Standard ±200mVDC, ±2VDC • **Power:** 9VDC isolated (7.2V-15V) at 150µA, 5VDC @ 5mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C ~ 70°C • **Type:** Snap-in Bezel Mount • **Pins:** Standard 26 pins, .46mm square, DIP style

4.5 Digit LCD ***Specifications:*** • **Annunciators:** 9VDC powered meters have "BT" when power <7.2VDC • **Decimal Point:** User selectable 4-position • **Hold:** Standard feature • **Full Scale Range:** ±200mVDC and ±2VDC • **Power:** 9VDC isolated @ 1mA, 5VDC @ 3.5mA • **Conversion Rate:** 2 per second • **Storage Temperature:** -10°C ~ 60°C • **Types:** Surface/window mount • **Pins:** 13 pins, .64mm square on 2.54mm centers

3.5 Digit LED ***Specifications:*** • **Type:** 7-segment light emitting diode (LED) • **Digits:** 0.56" (12.7mm) height • **Color:** Green or Red • **Polarity:** Displays (–) automatically • **Decimal Point:** User selectable 3-position • **Over/Under Range:** Over range displays "1" and under-range displays "-1" • **Hold:** Standard feature • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Configuration:** Bipolar, fully differential • **Power:** +5VDC, ±5% at 200mA • **Conversion Rate:** 3 per second • **Zeroing:** Automatic • **Operating Temperature:** 0°C ~ 50°C • **Storage Temperature:** -20°C ~ 70°C • **Relative Humidity:** 0 to 95% non-condensing • **Type:** Bezel Mount • **Pins:** Standard 10 pins, .64mm square on 2.54mm centers • **5-Year Unconditional Warranty**

Process Meter ***Specifications:*** • Meter and loop powered/controlled PCB in one unit • 3.5 or 4.5 digit • LCD and red or green LED • Fully scalable • 300Ω Impedance, nominal

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each			C-Ton Part No.	Use Cable Assy.
					1	5	10		
1/8 Din Big Digit 3.5 LCD									
1	+5	2V	—	CDPM802A-ND†◆	59.74	58.25	56.76	DK802A	Incl.
	+5	20V	—	CDPM803A-ND†	59.74	58.25	56.76	DK803A	Incl.
	Loop	4-20mA	—	CDPM807A-ND†◆	69.72	67.98	66.24	DK807A	—
	Loop	4-20mA	(-)Red	CDPM857B-ND◆	69.72	67.98	66.24	DK857B	—
	Loop	4-20mA	(-)Green	CDPM957B-ND	69.72	67.98	66.24	DK957B	—
Range Selectable — RoHS Compliant									
1	12/24V	5/10V/200mV	—	CDPM809-ND†	69.72	67.98	66.24	DK809	—
	12/24V	5/10V/200mV	(-)Green	CDPM959-ND	69.72	67.98	66.24	DK959	—
1/8 Din Big Digit 3.5 LED									
1	+5	2V	Red	CDPM852A-ND◆	59.74	58.25	56.76	DK852A	Incl.
	+5	20V	Red	CDPM853A-ND	59.74	58.25	56.76	DK853A	Incl.
	+5	200mV	Green	CDPM951A-ND	59.74	58.25	56.76	DK951A	Incl.
	+5	2V	Green	CDPM952A-ND◆	59.74	58.25	56.76	DK952A	Incl.
	+5	20V	Green	CDPM953A-ND	59.74	58.25	56.76	DK953A	Incl.
Window/Surface Mount 3.5 Digit LCD									
2	+9	200mV	—	CDPM101-ND†	39.80	38.81	37.81	DK101	J4C13
	+9	2V	—	CDPM102-ND†◆	39.80	38.81	37.81	DK102	J4C13
	+9	20V	—	CDPM103-ND†◆	39.80	38.81	37.81	DK103	J4C13
	+5	200mV	—	CDPM301-ND†◆	39.80	38.81	37.81	DK301	J1C13
	+5	2V	—	CDPM302-ND†◆	39.80	38.81	37.81	DK302	J1C13
	+5	20V	—	CDPM303-ND†◆	39.80	38.81	37.81	DK303	J1C13
	+5	200mV	Green	CDPM331-ND	49.78	48.54	47.30	DK331	J1C13
	+5	2V	Green	CDPM332-ND	49.78	48.54	47.30	DK332	J1C13
	+5	2V	(-) Green	CDPM432-ND◆	49.78	48.54	47.30	DK432	J1C13
	+5	2V	(-) Red	CDPM532-ND◆	49.78	48.54	47.30	DK532	J1C13
Snap-in 3.5 Digit LCD									
3	+5	200mV	—	CDPM500-ND†	39.80	38.81	37.81	DK500	J1C13
	+5	2V	—	CDPM501-ND†◆	39.80	38.81	37.81	DK501	J1C13
	+5	20V	—	CDPM502-ND†	39.80	38.81	37.81	DK502	J1C13
	+9	2V	—	CDPM504-ND◆	39.80	38.81	37.81	DK504	J4C13
	+9	20V	—	CDPM505-ND◆	39.80	38.81	37.81	DK505	J4C13
Snap-in 3.5 Digit LCD - 25.40mm Cutout — RoHS Compliant									
4	+5	200mV	—	CDPM110-ND†	39.80	38.81	37.81	DK110	J1C10
	+5	2V	—	CDPM111-ND†	39.80	38.81	37.81	DK111	J1C10
	+5	20V	—	CDPM112-ND†	39.80	38.81	37.81	DK112	J1C10
Miniature 3.5 Digit LCD									
5	+5	200mV	—	CDPM201-ND†◆	39.80	38.81	37.81	DK201	—
	+5	2V	—	CDPM202-ND†	39.80	38.81	37.81	DK202	—
	+9	2V	—	CDPM204-ND†◆	39.80	38.81	37.81	DK204	—
	+9	200mV	—	CDPM203-ND†	39.80	38.81	37.81	DK203	—

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each			C-Ton Part No.	Use Cable Assy.
					1	5	10		
Flat Pack 3.5 Digit LCD									
6	+9	200mV	—	CDPM171-ND§†	39.80	38.81	37.81	DK171	—
	+9	20V	—	CDPM173-ND§†	39.80	38.81	37.81	DK173	—
	+9	200mV	—	CDPM174-ND‡†	39.80	38.81	37.81	DK174	—
	+9	2V	—	CDPM175-ND‡†	39.80	38.81	37.81	DK175	—
	+5	200mV	—	CDPM177-ND‡†	39.80	38.81	37.81	DK177	—
	+5	2V	—	CDPM178-ND‡†◆	39.80	38.81	37.81	DK178	—
	+5	20V	—	CDPM179-ND	39.80	38.81	37.81	DK179	—
Window/Surface Mount 4.5 Digit LCD									
7	+5	200mV	—	CDPM702-ND†	57.90	56.46	55.01	DK702	J4C13
	+5	2V	—	CDPM703-ND†◆	57.90	56.46	55.01	DK703	J4C13
	+9	200mV	—	CDPM704-ND†	57.90	56.46	55.01	DK704	J4C13
	+9	2V	—	CDPM705-ND†	57.90	56.46	55.01	DK705	J4C13
Snap-in 4.5 Digit LCD									
3	+5	200mV	—	CDPM710-ND†◆	57.90	56.46	55.01	DK710	J4C13
	+5	2V	—	CDPM711-ND†	57.90	56.46	55.01	DK711	J4C13
	+5	20V	—	CDPM712-ND†◆	57.90	56.46	55.01	DK712	J4C13
3.5 Digit LED — RoHS Compliant									
8	+5	200mV	Green	CDPM601-ND	39.80	38.81	37.81	DK601	J1C10
	+5	2V	Green	CDPM602-ND	39.80	38.81	37.81	DK602	J1C10
	+5	20V	Green	CDPM603-ND	39.80	38.81	37.81	DK603	J1C10
	+5	200mV	Red	CDPM604-ND	39.80	38.81	37.81	DK604	J1C10
	+5	2V	Red	CDPM605-ND	39.80	38.81	37.81	DK605	J1C10
	+5	20V	Red	CDPM606-ND	39.80	38.81	37.81	DK606	J1C10
DIP Panel Meter 3.5 Digit LED									
9	+5	200mV	Red	CDPM630-ND	45.78	44.64	43.50	DK630	—
	+5	2V	Red	CDPM631-ND◆	45.78	44.64	43.50	DK631	—
	+5	20V	Red	CDPM632-ND	45.78	44.64	43.50	DK632	—
	+5	200mV	Green	CDPM633-ND	55.76	54.37	52.98	DK633	—
	+5	2V	Green	CDPM634-ND◆	55.76	54.37	52.98	DK634	—
	+5	20V	Green	CDPM635-ND	55.76	54.37	52.98	DK635	—
	+5	200mV	Blue	CDPM636-ND◆	55.76	54.37	52.98	DK636	—
	+5	2V	Blue	CDPM637-ND	55.76	54.37	52.98	DK637	—
	+5	20V	Blue	CDPM638-ND◆	55.76	54.37	52.98	DK638	—
DIP Panel Meter 3.5 Digit LED with Hold Function									
9	+5	20V	Red	CDPM642-ND	49.78	48.54	47.30	DK642	—
Bezel for 630/640 Series				CDPM650-ND◆	2.10	2.05	2.00	DLA-BEZ	—
Process Meter — RoHS Compliant									
10	Loop	4-20mA	—	CDPM590-ND†	64.84	63.22	61.60	DK590	—
	Loop	4-20mA	—	CDPM190-ND†	64.84	63.22	61.60	DK190	—

Note: **Other ranges and colors are available on our web site.** § Pad ‡ Pin † Non-Backlit ◆ ***RoHS Compliant***

CTon Industries Epic Series

Voltage and Process Meters

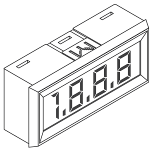
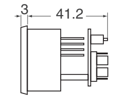

(diagram shown is Rangeable version)

C-TON's industrial digital meters intended as replacement meters for many popular panel and process meters. Wide range of input voltages, display options and user selectable annunciators make these meters universal for use as voltmeters, temperature readings, pressure readings and percentage displays.

5 year Unconditional Warranty

SPECIFICATIONS: • **Display Type:** .45" (11.4mm) 7 segment LCD • **Annunciators:** °F, °C, PSI, %, user selectable • **Decimal Points:** User selectable • **Panel Cutout:** 1" x 2.4" • **Panel Clearance Required:** 1.25" (31.75mm) • **Input Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Over/Under Range Indication:** 1.... / -1.... • **Configuration:** Bipolar Differential • **Performance Conversion Rate:** 3 per second • **Operating Temperature:** 0°C ~ 50°C • **Power Supply:** 5VDC @ 3.5mA • **Backlight Power:** 5VDC • **Mounting:** Snap-in bezel • **Connection:** 13 pins, 0.025" (.64mm) square on 0.100" (2.54mm) centers

PROCESS SPECIFICATIONS: • Meter and loop powered PCB in one package • **Panel Clearance Required:** 1.75" (44.45mm) • **Input Range:** Fully scalable • **Power Supply:** 4-20mA process loop • **Optional Backlight Power:** 5VDC or 24VDC • **Connection:** 2 pin screw terminals (4 pin with optional backlights)

RANGEABLE VOLTAGE SPECIFICATIONS: • 3.5 and 4.5 digit with high-contrast LCD display • **Input Ranges:** 0-5VDC, 0-10VDC or 0-200mvDC (selectable) • **Power Supply:** 12VDC or 24VDC regulated (selectable) • **Optional Backlight Power:** 24VDC @ 24mA • **Connection:** 6 screw terminal

Power Supply	Input	Digit Color	Backlit Voltage	Digi-Key Part No.	Price Each 1	5	10	C-Ton Part No.	Use Cable Assembly
				3.5 Digit LCD					
+5	200mV	—	—	CDPM541-ND	39.80	38.81	37.81	DK541	J4C13
	2V	—	—	CDPM542-ND	39.80	38.81	37.81	DK542	J4C13
	20V	—	—	CDPM543-ND	39.80	38.81	37.81	DK543	J4C13
	20V	(-) Amber	5VDC	CDPM553-ND	49.78	48.54	47.30	DK553	J4C13
	2V	(-) Green	5VDC	CDPM562-ND	49.78	48.54	47.30	DK562	J4C13
	20V	(-) Green	5VDC	CDPM563-ND	49.78	48.54	47.30	DK563	J4C13
	2V	(-) Red	5VDC	CDPM572-ND	49.78	48.54	47.30	DK572	J4C13
	20V	(-) Red	5VDC	CDPM573-ND	49.78	48.54	47.30	DK573	J4C13
				3.5 Digit Process					
Loop	4-20mA	—	—	CDPM191-ND	71.82	70.03	68.23	DK191	—
	4-20mA	(-) Amber	24VDC	CDPM192-ND	81.80	79.76	77.71	DK192	—
	4-20mA	(-) Green	24VDC	CDPM193-ND	81.80	79.76	77.71	DK193	—
	4-20mA	(-) Red	24VDC	CDPM194-ND	81.80	79.76	77.71	DK194	—
				3.5 Rangeable					
12/24V	5/10V/200mV	(-) Green	24VDC	CDPM197-ND	81.80	79.76	77.71	DK197	—
	5/10V/200mV	(-) Red	24VDC	CDPM198-ND	81.80	79.76	77.71	DK198	—
	5/10V/200mV	—	—	CDPM199-ND	71.82	70.03	68.23	DK199	—
				4.5 Digit LCD					
+5	200mV	—	—	CDPM741-ND	57.90	56.46	55.01	DK741	J4C13
	2V	—	—	CDPM742-ND	57.90	56.46	55.01	DK742	J4C13
	20V	—	—	CDPM743-ND	57.90	56.46	55.01	DK743	J4C13
	2V	(-) Amber	5VDC	CDPM752-ND	67.90	66.21	64.51	DK752	J4C13
	20V	(-) Amber	5VDC	CDPM753-ND	67.90	66.21	64.51	DK753	J4C13
	2V	(-) Green	5VDC	CDPM762-ND	67.90	66.21	64.51	DK762	J4C13
	20V	(-) Green	5VDC	CDPM763-ND	67.90	66.21	64.51	DK763	J4C13
	2V	(-) Red	5VDC	CDPM772-ND	67.90	66.21	64.51	DK772	J4C13
	20V	(-) Red	5VDC	CDPM773-ND	67.90	66.21	64.51	DK773	J4C13
				4.5 Digit Process					
Loop	4-20mA	—	—	CDPM790-ND	89.78	87.54	85.30	DK790	—
	4-20mA	(-) Green	24VDC	CDPM793-ND	98.76	96.30	93.83	DK793	—
	4-20mA	(-) Red	24VDC	CDPM794-ND	98.76	96.30	93.83	DK794	—
				4.5 Rangeable					
12/24V	5/10V/200mV	(-) Green	24VDC	CDPM797-ND	98.76	96.30	93.83	DK797	—
	5/10V/200mV	(-) Red	24VDC	CDPM798-ND	98.76	96.30	93.83	DK798	—
	5/10V/200mV	—	—	CDPM799-ND	89.78	87.54	85.30	DK799	—

Optional Accessories for all CTON Displays

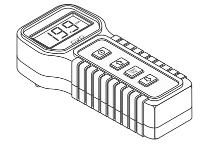

Universal Calibrator for C-Ton Displays

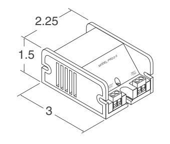

Power Supply for C-Ton Displays

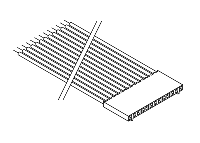

Cable Assembly for C-Ton Displays

Description	Digi-Key Part No.	Price Each 1	5	10	C-Ton Part No.
	Current and Voltage Calibrator				
Programmable Current and Voltage Calibration Unit	CDPM1009-ND	149.00	—	—	CVC
	Power Supplies				
5VDC Out, 300mA	CDPM1000-ND	20.90	20.38	19.86	PW2-5
12VDC Out, 200mA	CDPM1001-ND	20.90	20.38	19.86	PW2-12
24VDC Out, 100mA	CDPM1002-ND	20.90	20.38	19.86	PW2-24
	Cable Assemblies				
10 Pin Connector with 12" Wires, 26AWG	CDPM1003-ND	3.16	3.09	3.01	J1C10
13 Pin Connector with 12" Wires, 26AWG	CDPM1004-ND	3.16	3.09	3.01	J1C13
13 Pin Connector with 12" Wires, 26AWG	CDPM1005-ND	3.16	3.09	3.01	J4C13

Large Digit Voltage Meters

SPECIFICATIONS: • **Display Digits:** 3.5 digits (±1999) • **Set Voltage Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Adjustable Voltage Ranges:** 200mVDC, 5VDC, 10VDC • **Offset Range:** -1999 ~ 1999 • **Gain Range:** 1 ~ 1000 • **4-20mA Loop Ranges:** 4 ~ 20mADC • **Operating Temperature:** -10°C ~ 50°C • **Power Supply:** 90 ~ 250VAC @ 12VA • **Mounting:** 180° gimbal mounting with 30° stops, or bezel mount • **Connection:** Screw terminals

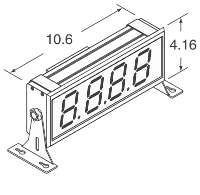

Description	LED Color	Digi-Key Part No.	Price Each	C-Ton Part No.
2.3" Universal Current and Voltage Meter with Mounting Hardware	Red	CDPM1006-ND	349.00	BDR-999R
	Green	CDPM1007-ND	349.00	BDR-999G
	Blue	CDPM1008-ND	349.00	BDR-999B

Panasonic Counters and Timers

Panasonic Electric Works

LC4H Digital Counters

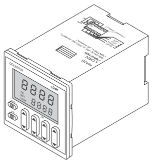

Panasonic/Aromat's LC4H Digital Counters are presettable counters that will count up or count down until your preset count is reached, then trigger the internal relay to switch in one of seven output modes.

Features such as 2 color back-lit display and waterproof front panel display allow this counter to be used in extreme environments.

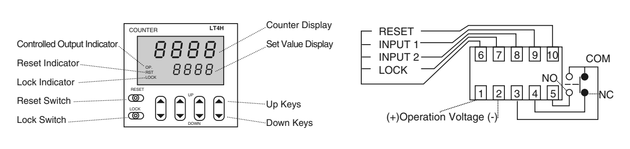

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 Pin Octal	255-1218-ND	122.50	110.25	104.13	LC4H-R4-AC240V
100-240VAC	Screw	255-1219-ND	127.70	114.93	108.55	LC4H-R4-AC240VS
12-24VDC	11 Pin Octal	255-1220-ND	116.72	105.05	99.22	LC4H-R4-DC24V
12-24VDC	Screw	255-1221-ND	121.92	109.73	103.64	LC4H-R4-DC24VS

LT4H Digital Timers

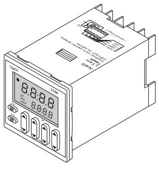

Panasonic/Aromat's LT4H Digital Timer is intended for process control for applications requiring duration time control such as delay-on/off, repeat cycle and start/stop time accumulation.

The LT4H has features such as a bright 2 color back-lit display and EE-Prom memory, keeping your program settings without the need of an internal battery. The waterproof front panel keeps out dirt and water under poor operating conditions.

Timing from 0.001 second to 999.9 hours, with 8 modes of operation and built-in timed SPDT relay (5A 250VAC).

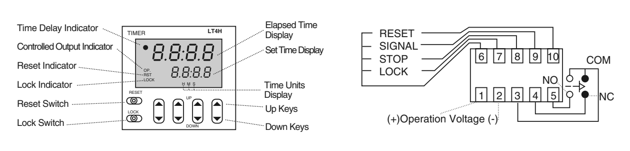

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 Pin Octal	255-1214-ND	120.18	108.17	102.16	LT4H-AC240V
100-240VAC	Screw	255-1215-ND	120.18	108.17	102.16	LT4H-AC240VS
12-24VDC	11 Pin Octal	255-1216-ND	120.18	108.17	102.16	LT4H-DC24V
12-24VDC	Screw	255-1217-ND	120.18	108.17	102.16	LT4H-DC24VS

NEW! PM4H and PM5S Analog Timers

PM4H Series:

Features: • Front panel of IP65 type is protected against water-splash and dust • Multiple time ranges — 1s to 500h (max.) • Short Body — 62.5mm

Operation Modes: *PM4H-A:* • Pulse ON-delay • Pulse Flicker • Pulse ON-flicker • Differential ON/OFF-delay (1) (2) • Signal OFF-delay • Pulse One-shot • Pulse One-cycle *PM4H-S*: • Power ON-delay

PM5S Series:

Features: • Multiple time ranges — 1s to 500h (max.) • Slim Body — DIN 22.5mm • 0 Setting Instantaneous Output Operation • UL/C-UL/CE approval

Operation Modes: *PM5S:* • Pulse ON-delay • Pulse Flicker • Pulse ON-flicker • Signal OFF-delay • Pulse One-shot • Pulse One-cycle

Fig. 1

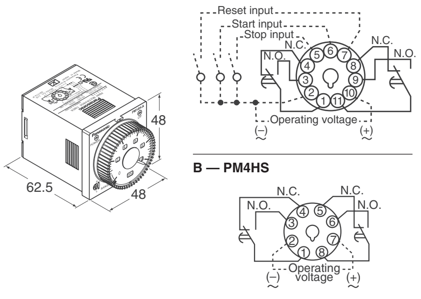

Fig. 2

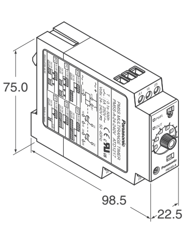

Fig.	Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
1A	100-240VAC	11 Pin	255-2829-ND	59.46	54.61	48.54	PM4HA-H-AC240V
1B	100-240VAC	8 Pin	255-2830-ND	66.54	61.11	54.32	PM4HS-H-AC240V
2	24-240VAC/DC	DIN Rail	255-2831-ND	76.29	70.07	62.28	PM5S-A-24-240V

FAIRCHILD
SEMICONDUCTOR®

Infrared Photosensors and Emitters

Fig. 1

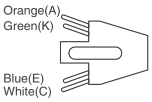

Fig. 2

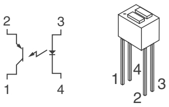

Fig. 3

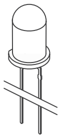

Fig. 4

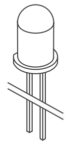

Fig. 5

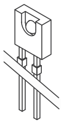

Reflective Photosensors

Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	500
1	Transistor	.6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.81	1.61	1.04	.83
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	1.48	1.32	1.04	.81

Semiconductor Infrared Emitters (IRED LEDs)

Fig.	For-ward Volt. (V)	Max. Forward Current (mA)	Minimum Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Package Type	Digi-Key Part No.	Price Each 1	10	100	500
3	1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.48	.35	.23	.17
	1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.51	.40	.29	.22
4	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.68	.49	.32	.23
	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.68	.49	.32	.23
	1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND	.68	.49	.32	.23
	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.49	.35	.23	.17
	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.49	.35	.23	.17
5	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.54	.43	.31	.24
	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.71	.56	.40	.31

ROHM
SEMICONDUCTOR

Remote Control Receivers

Fig. 1

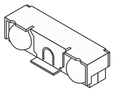

Fig. 2

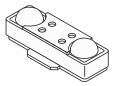

Fig. 3

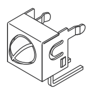

Fig. 4

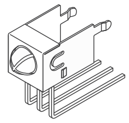

Fig. 5

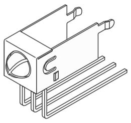

Features: These remote control receiver modules are small sized, light-weight and low consumption. These modules have been achieved by using resin mold.

Applications: All household electric appliances such as TV, DVD, air conditioner and audio equipment.

Specifications: • Output Current: 2.0mA • Storage Temperature: -30°C ~ 100°C • Operating Temperature: -10°C ~ 75°C

Fig.	Freq-uency (kHz)	Viewing Type	Operating Supply Voltage	Digi-Key Part No.	Price Each 1	25	100	T&R† Pricing 2,500	Rohm Part No.
5300 Series									
1	36.7	Side	3.0	RPM5337-H14E2ACT-ND‡	2.10	1.60	1.26	1190.00/M	RPM5337-H14E2A
	37.9	Side	3.0	RPM5338-H14E2ACT-ND‡	2.10	1.60	1.26	1395.00/M	RPM5338-H14E2A
2	37.9	Top	3.0	RPM5338-H12E4ACT-ND‡	2.10	1.60	1.26	1190.00/M	RPM5338-H12E4A
	40.0	Top	3.0	RPM5340-H12E4ACT-ND‡	2.10	1.60	1.26	1190.00/M	RPM5340-H12E4A
5500 Series									
1	36.7	Side	5.0	RPM5537-H14E2ACT-ND‡	2.10	1.60	1.26	1135.00/M	RPM5537-H14E2A
	37.9	Side	5.0	RPM5538-H14E2ACT-ND‡	2.10	1.60	1.26	1190.00/M	RPM5538-H14E2A
2	36.7	Top	5.0	RPM5537-H12E4ACT-ND‡	2.10	1.60	1.26	1135.00/M	RPM5537-H12E4A
	37.9	Top	5.0	RPM5538-H12E4ACT-ND‡	2.10	1.60	1.26	1190.00/M	RPM5538-H12E4A
	40.0	Top	5.0	RPM5540-H12E4ACT-ND‡	2.10	1.60	1.26	1395.00/M	RPM5540-H12E4A
7136 Series									
3	36.0	Top	5.0	RPM7136-H8R-ND	1.56	.89	.73	—	RPM7136-H8R
4	36.0	Top	5.0	RPM7136-H9R-ND	1.56	.89	.73	—	RPM7136-H9R
5	36.0	Top	5.0	RPM7136-H4R-ND	1.56	.89	.73	—	RPM7136-H4R
7137 Series									
3	36.7	Top	5.0	RPM7137-H8R-ND	1.56	.89	.73	—	RPM7137-H8R
5	36.7	Top	5.0	RPM7137-H4R-ND	1.56	.89	.73	—	RPM7137-H4R
7138 Series									
3	37.9	Top	5.0	RPM7138-H8R-ND	1.56	.89	.73	—	RPM7138-H8R
4	37.9	Top	5.0	RPM7138-H9R-ND	1.56	.89	.73	—	RPM7138-H9R
5	37.9	Top	5.0	RPM7138-H4R-ND	1.56	.89	.73	—	RPM7138-H4R
7140 Series									
3	40.0	Top	5.0	RPM7140-H8R-ND	1.56	.89	.73	—	RPM7140-H8R
4	40.0	Top	5.0	RPM7140-H9R-ND	1.56	.89	.73	—	RPM7140-H9R
5	40.0	Top	5.0	RPM7140-H4R-ND	1.56	.89	.73	—	RPM7140-H4R
7236 Series									
3	36.0	Top	3.0	RPM7236-H8-ND	1.21	.69	.56	—	RPM7236-H8R
5	36.0	Top	3.0	RPM7236-H4R-ND	1.62	.92	.75	—	RPM7236-H4R
7237 Series									
3	36.7	Top	3.0	RPM7237-H8R-ND	1.62	.92	.75	—	RPM7237-H8R
4	36.7	Top	3.0	RPM7237-H9R-ND	1.62	.92	.75	—	RPM7237-H9R
5	36.7	Top	3.0	RPM7237-H4R-ND	1.62	.92	.75	—	RPM7237-H4R
7238 Series									
3	37.9	Top	3.0	RPM7238-H8R-ND	1.89	1.07	.88	—	RPM7238-H8R
4	37.9	Top	3.0	RPM7238-H9R-ND	1.62	.92	.75	—	RPM7238-H9R
5	37.9	Top	3.0	RPM7238-H4R-ND	1.62	.92	.75	—	RPM7238-H4R
7240 Series									
3	40.0	Top	3.0	RPM7240-H8R-ND	1.62	.92	.75	—	RPM7240-H8R
4	40.0	Top	3.0	RPM7240-H9R-ND	1.62	.92	.75	—	RPM7240-H9R
5	40.0	Top	3.0	RPM7240-H4R-ND	1.62	.92	.75	—	RPM7240-H4R

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

VISHAY. Semiconductor

IrDA® Transceivers

Fig. 1

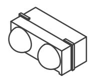

Fig. 2

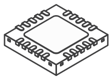

Size L x W x H (mm)	Operating Voltage (V)	Link Distance (m)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Vishay Part No.
Fig. 1 — IrDA 1.152 Mbit/s									
6.8 x 2.8 x 1.6	2.4 ~ 3.6	0 ~ ≥0.3	751-1064-1-ND	3.21	2.90	2.36	1,000	1499.00	TFBS4652-TR1
	2.4 ~ 3.6	0 ~ ≥0.3	751-1065-1-ND	3.21	2.90	2.36	—	—	TFBS4652-TR3
Fig. 1 — IrDA 115.2 Kbit/s									
6.8 x 2.8 x 1.6	2.4 ~ 3.6	0 ~ ≥0.3	751-1062-1-ND	3.21	2.90	2.36	1,000	1499.00	TFBS4650-TR1
	2.4 ~ 3.6	0 ~ ≥0.3	751-1063-1-ND	3.21	2.90	2.36	—	—	TFBS4650-TR3
6.0 x 3.1 x 1.9	2.4 ~ 5.5	0 ~ ≥0.5	751-1066-1-ND	3.39	2.91	2.38	1,000	1405.00	TFBS4711-TR1
	2.4 ~ 5.5	0 ~ ≥0.5	751-1067-1-ND	3.06	2.76	2.25	2,500	1357.00/M	TFBS4711-TR3
	2.4 ~ 5.5	0 ~ ≥0.5	751-1068-1-ND	3.39	2.91	2.38	1,000	1405.00	TFBS4711-TT1
9.7 x 4.7 x 4.0	2.4 ~ 5.5	0 ~ ≥1.0	751-1070-1-ND	5.66	5.10	4.16	1,000	2642.00	TFDU4101-TR3
	2.4 ~ 5.5	0 ~ ≥1.0	751-1071-1-ND	5.66	5.10	4.16	1,000	2642.00	TFDU4101-TT3
Fig. 1 — IrDA 4 Mbit/s									
8.5 x 3.1 x 2.5	2.4 ~ 3.6	0 ~ ≥0.7	751-1082-1-ND	4.74	4.27	3.48	2,500	2103.00/M	TFDU6300-TR3
	2.4 ~ 3.6	0 ~ ≥0.7	751-1083-1-ND	4.74	4.27	3.48	2,500	2103.00/M	TFDU6300-TT3
Fig. 2 — IC SIR Endec IrDA 2.4 Kbit/s ~ 115.2 Kbit/s									
4.0 x 4.0 x 0.75	2.7 ~ 3.6	—	751-1491-1-ND ***NEW!***	7.29	6.60	5.50	6,000	3438.00/M	TOIM5232-TR3
10.4 x 10.3 x 2.4	2.7 ~ 3.6	—	751-1200-1-ND	7.29	6.60	5.50	1,500	3713.00/M	TOIM4232-TR3

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Semiconductor

IrDA® Receiver Modules

Digi-Reel® RoHS COMPLIANT

Features: • 3V and 5V versions with frequencies from 30kHz ~ 56kHz • IR Receiver modules optimized for noise suppression • Wireless transceiver module is compatible with IrDA standard

Fig. 1

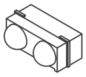

Fig. 2

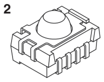

Fig. 3

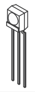

Fig. 4

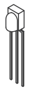

Fig.	Supply Voltage (V)	Carrier Frequency (kHz)	Cut Tape Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Vishay Part No.
1	2.7 ~ 5.5	38	751-1392-1-ND‡	2.63	2.25	1.84	1,000	1088.00	TSOP85338
	2.7 ~ 5.5	38	751-1391-1-ND‡	2.52	2.16	1.77	2,500	972.00/M	TSOP85238
2	2.7 ~ 5.5	38	751-1446-1-ND‡	2.00	1.72	1.40	1,120	828.00/M	TSOP36238TR
3	2.5 ~ 5.5	38	751-1384-5-NDΔ	1.23	1.09	.86	—	—	TSOP32338
	2.5 ~ 5.5	38	751-1385-5-NDΔ	1.23	1.09	.86	—	—	TSOP34338
	2.5 ~ 5.5	38	751-1386-5-NDΔ	1.68	1.49	1.18	—	—	TSOP34838
4	2.5 ~ 5.5	38	751-1388-ND	.91	.81	.64	—	—	TSOP38338
	2.5 ~ 5.5	38	751-1390-5-NDΔ	.91	.81	.64	—	—	TSOP39338
	2.7 ~ 5.5	38	751-1389-ND	.78	.69	.53	—	—	TSOP39238CZ1

† For Tape and Reel part number, change 1-ND to 2-ND. Δ Tube ‡ Cut Tape

SHARP MICROELECTRONICS OF THE AMERICAS

Remote Control Receivers

Supply Voltage 2.4V ~ 5.5V

Digi-Reel®

Fig. 1

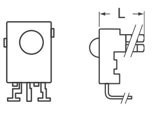

Fig. 2

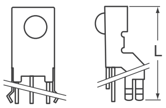

Fig. 3

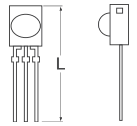

Fig.	Detecting Window	B.P.F. fo (kHz) Typ.	Current Dissipation Icc (mA) Max.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	Top	36.0	0.4	8.6	425-2511-ND◆	1.08	.90	.72	GP1UE260RKVF
	Top	36.0	0.4	13.8	425-2654-ND◆	1.08	.90	.72	GP1UE270RKVF
	Top	36.7	0.2	14.0	425-1121-ND	1.15	.97	.69	GP1UD272XK
	Top	36.7	0.2	18.0	425-1126-ND	1.15	.97	.69	GP1UD282XK
	Top	36.7	0.6	13.8	425-2520-ND◆	1.13	.95	.68	GP1UM272RKVF
	Top	36.7	1.5	8.8	425-2008-ND◆	1.35	1.13	.90	GP1UM262XK0F
	Top	36.7	1.5	13.8	425-2015-ND◆§◊	1.35	1.13	.90	GP1UM272RK0F
	Top	36.7	1.5	13.8	425-2016-ND◆	1.35	1.13	.90	GP1UM272XK0F
	Top	36.7	1.5	13.8	425-1141-ND§	1.35	1.13	.90	GP1UM272RK
	Top	36.7	1.5	13.8	425-1142-ND	1.13	.95	.68	GP1UM272XK
	Top	36.7	1.5	17.8	425-1150-ND§	1.13	.95	.68	GP1UM282RK
	Top	36.7	1.5	17.8	425-2024-ND◆§◊	1.35	1.13	.90	GP1UM282RK0F
	Top	36.7	1.5	17.8	425-2025-ND◆	1.35	1.13	.90	GP1UM282XK0F
	Top	38.0	0.4	8.6	425-2512-ND◆	1.08	.90	.72	GP1UE261RKVF
	Top	38.0	0.4	13.8	425-2515-ND◆	.90	.76	.54	GP1UE271RKVF
	Top	38.0	0.4	17.8	425-2517-ND◆	.90	.76	.54	GP1UE281RKVF
	Top	38.0	0.4	17.8	425-2518-ND◆	1.08	.90	.72	GP1UE281XKVF
	Top	38.0	0.4	17.8	425-2522-ND◆	1.13	.95	.68	GP1UM281XKVF
	Top	38.0	0.6	8.6	425-1994-ND◆◊	1.13	.95	.76	GP1UE261XK0F
	Top	38.0	0.6	13.8	425-1997-ND◆◊	1.08	.90	.72	GP1UE271XK0F
	Top	38.0	0.6	13.8	425-2610-ND◆	1.35	1.13	.90	GP1UM271RKVF
	Top	38.0	0.6	13.8	425-2611-ND◆	1.35	1.13	.90	GP1UM271XKVF
	Top	38.0	0.6	17.8	425-2000-ND◆◊	1.14	.95	.76	GP1UE281XK0F
	Top	38.0	1.5	8.8	425-2007-ND◆	1.35	1.13	.90	GP1UM261XK0F
	Top	38.0	1.5	8.8	425-2006-ND◆§◊	1.35	1.13	.90	GP1UM261RK0F
	Top	38.0	1.5	13.8	425-2013-ND◆§◊	1.35	1.13	.90	GP1UM271RK0F
	Top	38.0	1.5	13.8	425-2014-ND◆◊	1.35	1.13	.90	GP1UM271XK0F
	Top	40.0	0.2	14.0	425-1985-ND◆◊	1.15	.97	.69	GP1UD27XK00F
	Top	40.0	0.2	18	425-1992-ND◆◊	1.15	.97	.69	GP1UD28XK00F
	Top	40.0	0.4	8.6	425-2513-ND◆	1.08	.90	.72	GP1UE26RK0VF
	Top	40.0	0.4	8.6	425-2514-ND◆	1.08	.90	.72	GP1UE26XK0VF
	Top	40.0	0.4	15.8	425-2521-ND◆	1.13	.95	.68	GP1UM27XK0VF
	Top	40.0	0.4	17.8	425-2526-ND◆	1.13	.95	.68	GP1UM28XK0VF
	Top	40.0	0.6	8.6	425-1996-ND◆◊	1.08	.90	.72	GP1UE26XK00F
	Top	40.0	0.6	13.8	425-1999-ND◆◊	1.13	.95	.76	GP1UE27XK00F
	Top	40.0	0.6	14.0	425-1904-ND	.90	.76	.54	GP1UE27XK
	Top	40.0	1.5	8.8	425-2012-ND◆◊	1.35	1.13	.90	GP1UM26XK00F
	Top	40.0	1.5	8.8	425-2011-ND◆§◊	1.35	1.13	.90	GP1UM26RK00F
	Top	40.0	1.5	13.8	425-2019-ND◆§◊	1.35	1.13	.90	GP1UM27RK00F
	Top	40.0	1.5	13.8	425-2020-ND◆◊	1.35	1.13	.90	GP1UM27XK00F
	Top	40.0	1.5	13.8	425-1145-ND§	1.13	.95	.68	GP1UM27RK
	Top	40.0	1.5	13.8	425-1146-ND	1.13	.95	.68	GP1UM27XK
1	Top	40.0	1.5	17.8	425-2032-ND◆§◊	1.35	1.13	.90	GP1UM28RK00F
	Top	40.0	1.5	17.8	425-2033-ND◆◊	1.35	1.13	.90	GP1UM28XK00F
	Top	56.8	0.2	8.8	425-1980-ND◆◊	1.15	.97	.69	GP1UD267XK0F
	Top	56.8	0.2	14.0	425-1122-ND	1.15	.97	.69	GP1UD277XK
	Top	56.8	0.2	18.0	425-1128-ND	1.15	.97	.69	GP1UD287XK
	Top	56.8	0.6	8.8	425-1900-ND	.90	.76	.54	GP1UE267XK
	Top	56.8	0.6	14.0	425-1903-ND	.90	.76	.54	GP1UE277XK
	Top	56.8	0.6	17.8	425-2525-ND◆	1.13	.95	.68	GP1UM287RKVF
	Top	56.8	0.6	18.0	425-1907-ND	.90	.76	.54	GP1UE287XK
	Top	56.8	1.5	8.8	425-2009-ND◆§◊	1.35	1.13	.90	GP1UM267RK0F
	Top	56.8	1.5	8.8	425-2010-ND◆◊	1.35	1.13	.90	GP1UM267XK0F
	Top	56.8	1.5	13.8	425-2017-ND◆§◊	1.35	1.13	.90	GP1UM277RK0F
	Top	56.8	1.5	13.8	425-1143-ND§	1.13	.95	.68	GP1UM277RK
	Top	56.8	1.5	13.8	425-1144-ND	1.13	.95	.68	GP1UM277XK
	Top	56.8	1.5	17.8	425-1154-ND§	1.13	.95	.68	GP1UM287RK
	Top	56.8	1.5	17.8	425-1155-ND	1.13	.95	.68	GP1UM287XK
2	Side	36.7	0.2	16.6	425-1127-ND	1.15	.97	.69	GP1UD282YK
	Side	36.7	0.2	16.6	425-1989-ND◆◊	1.15	.97	.69	GP1UD282YK0F
	Side	36.7	0.4	22.6	425-2609-ND◆	.90	.76	.54	GP1UE292QKVF
	Side	36.7	0.6	17.8	425-2524-ND◆	1.13	.95	.68	GP1UM282QKVF
	Side	36.7	1.5	16.1	425-2023-ND◆§◊	1.35	1.13	.90	GP1UM282QK0F
	Side	36.7	1.5	16.1	425-2026-ND◆◊	1.35	1.13	.90	GP1UM282YK0F
	Side	38.0	0.4	17.8	425-2523-ND◆	1.13	.95	.68	GP1UM281YKVF
	Side	38.0	0.5	16.1	425-2612-ND◆	1.13	.95	.68	GP1UM281QKVF
	Side	38.0	0.6	16.1	425-2001-ND◆◊	1.08	.90	.72	GP1UE281YK0F
	Side	38.0	1.5	16.1	425-1147-ND§	1.35	1.13	.90	GP1UM281QK
	Side	38.0	1.5	16.1	425-1148-ND	1.13	.95	.68	GP1UM281YK
	Side	38.0	1.5	16.1	425-2021-ND◆§◊	1.35	1.13	.90	GP1UM281QK0F
	Side	38.0	1.5	16.1	425-2022-ND◆◊	1.35	1.13	.90	GP1UM281YK0F
	Side	40.0	0.6	16.1	425-2005-ND◆◊	1.14	.95	.76	GP1UE28YK00F
	Side	40.0	1.5	16.1	425-2034-ND◆◊	1.35	1.13	.90	GP1UM28YK00F
	Side	56.8	0.2	16.6	425-1991-ND◆◊	1.15	.97	.69	GP1UD287YK0F
	Side	56.8	0.6	16.6	425-1908-ND	.90	.76	.54	GP1UE287YK
	Side	56.8	1.5	16.1	425-1153-ND§	1.13	.95	.68	GP1UM287QK
	Side	56.8	1.5	16.1	425-1156-ND	1.13	.95	.68	GP1UM287YK
3	Side	36.0	1.5	28.0	425-2035-ND◆	1.28	1.08	.77	GP1UV700QS0F
	Side	36.7	0.6	28.0	425-2040-ND◆	1.28	1.08	.77	GP1UW702QS0F
	Side	38.0	0.4	28.0	425-2528-ND◆	.96	.80	.64	GP1UX311QS
	Side	38.0	0.6	28.0	425-2501-ND◆§	.96	.80	.64	GP1UX511QS
	Side	40.0	1.5	16.1	425-2655-ND◆	1.35	1.13	.90	GP1UM28YK0VF

◆ ***RoHS Compliant*** ◊ Tray § With mesh

IrDA® Transceiver Modules

Digi-Reel®

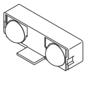

Sharp's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Cellular phones • PDA • Personal computers

Data Vcc (V)	Transfer Rate SIR (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Pricing 2,000	Sharp Part No.
IrDA 115 Kbit/s, 20cm							
1.7 ~ 2.5	2.4 ~ 115.2	425-1173-1-ND	3.20	2.56	2.12	1600.00/M	GP2W0112YP
	2.4 ~ 115.2	425-2057-1-ND◆	3.20	2.56	2.12	—	GP2W0112YP0F
2.7 ~ 5.5	2.4 ~ 115.2	425-2060-1-ND◆	2.50	2.00	1.65	—	GP2W0118YP0F

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

zilog

IrDA® Transceiver Modules

Digi-Reel® RoHS COMPLIANT

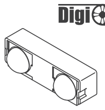

Zilog's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Portable printers • Handheld computers • Personal data assistants (PDAs)

Data Vcc (V)	Transfer Rate (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Zilog Part No.
2.4 ~ 3.6	115.2	269-3862-1-ND	4.44	3.33	2.96	ZHX1223TB115THTR
	115.2	269-3821-1-ND	4.86	3.65	3.24	ZHX1423TA115THTR
2.4 ~ 5.5	115.2	269-3244-1-ND	4.02	3.02	2.68	ZHX1820TV115XHTR

LITEON

IrDA® Transceiver Modules

Digi-Reel® RoHS COMPLIANT

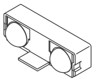

Supply Voltage	Data Rate Maximum	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Lite-On Part No.
2.7 ~ 3.6V	115.2 kb/s	516-1272-1-ND	5.61	4.68	3.40	500	1232.50	HSDL-3201#001
2.7 ~ 3.6V	4.0 Mb/s	516-1274-1-ND	3.50	3.07	2.63	400	916.30	HSDL-3602-007
IrDA 3/16 Encoder/Decoder		516-1702-1-ND ***NEW!***	3.45	3.17	2.88	2,500	1529.50/M	HSDL-7002

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

U.S. - LASERS, Inc.

DANGER
VISIBLE LASER LIGHT
AVOID DIRECT EYE EXPOSURE

Adjustable Focus Laser Diode Modules

Fig. 1 — Adjustable Focus Laser Module 28 AWG

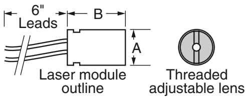

	10.4mm	6.4mm
Po:	5mW	
Class:	IIIa	
Supply Voltage, Up to 9V:	3 Continuous	
Dimension A:	10.44mm	6.4mm
Dimension B:	17.8mm	17.25mm

Fig. 2 — Adjustable Output Laser Module

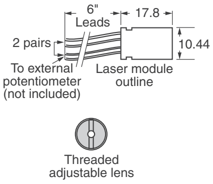

Po: 1 ~ 4.8mW
Recommended Pot = approx. 150K ~ 500K

Fig. 3 — Visible Laser Diode

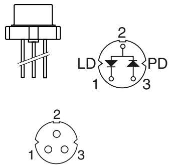

1. Laser cathode
2. Common case(laser anode)
3. PD anode (standard pinout)

Po: 5mW Class IIIa
Wide Spectrum Range,
Standard Pinout

Fig. 4 — 6.4mm Laser Diode Housing Kit

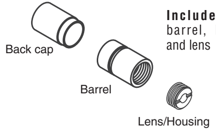

Includes: Backcap, barrel, lens housing and lens

Fig. 5 — 10.4mm Laser Diode Housing Kit

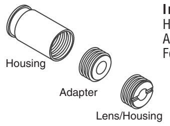

Includes: Housing/Heatsink, 5.6mm ~ 9mm Adapter, Adjustable Focus Lens

Fig. 6 — APC Laser Power Supply

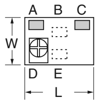

▨ ⬚ Soldering pads
A: Laser diode cathode
B: Laser/pd common (+)
C: Photodiode anode
D: Potentiometer
E: Negative lead (-)

	Dimensions W	Dimensions L
10.4mm	5.4	7.8
6.4mm	9.0	5.0

Adjustable Output Power via On-Board Potentiometer

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Lasers Part No.
1	Visible Laser Module*	650	25 ~ 40	17.8 x 10.44	38-1003-ND	32.66	M6505I
	Visible Laser Module*	635	45 ~ 70	17.8 x 10.44	38-1017-ND	76.00	M6355I
	Infrared Laser Module*	780	45 ~ 70	17.8 x 10.44	38-1018-ND	56.00	M7805I
	Infrared Laser Module*	808	60 ~ 70	17.8 x 10.44	38-1005-ND	64.00	M8085I
	Infrared Laser Module*	850	45 ~ 65	17.8 x 10.44	38-1019-ND	68.00	M8505I
	Visible Laser Micro Module*	650	25 ~ 40	17.25 x 6.4	38-1021-ND	52.00	MM6505I
	Visible Laser Micro Module*	640	55 ~ 70	17.25 x 6.4	38-1022-ND	92.00	MM6405I
	Visible Laser Micro Module*	635	45 ~ 70	17.25 x 6.4	38-1023-ND	96.00	MM6355I
	Infrared Laser Micro Module*	780	45 ~ 70	17.25 x 6.4	38-1024-ND	76.00	MM7805I
	Infrared Laser Micro Module*	808	60 ~ 70	17.25 x 6.4	38-1025-ND	80.00	MM8085I
	Infrared Laser Micro Module*	850	45 ~ 65	17.25 x 6.4	38-1026-ND	88.00	MM8505I
2	Adj. Output Visible Laser Module*	650	25 ~ 40	17.8 x 10.44	38-1011-ND	56.00	VOL6505I
	Adj. Output Visible Laser Module*	635	45 ~ 70	17.8 x 10.44	38-1013-ND	116.00	VOL6355I

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Lasers Part No.
2	Adj. Output Infrared Laser Module*	780	45 ~ 70	17.8 x 10.44	38-1014-ND	96.00	VOL7805I
	Adj. Output Infrared Laser Module*	808	60 ~ 70	17.8 x 10.44	38-1015-ND	100.00	VOL8085I
	Adj. Output Infrared Laser Module*	850	45 ~ 65	17.8 x 10.44	38-1016-ND	108.00	VOL8505I
3	Visible Laser Diode	650	25 ~ 40	5.6	38-1007-ND	9.00	D6505I
	Visible Laser Diode	635	45 ~ 70	5.6	38-1027-ND	30.00	D6355I
	Infrared Laser Diode	780	45 ~ 70	5.6	38-1028-ND	24.00	D7805I
	Infrared Laser Diode	808	60 ~ 70	5.6	38-1029-ND	28.00	D8085I
	Infrared Laser Diode	850	45 ~ 65	5.6	38-1030-ND	32.00	D8505I
4	Housing Kit, 6.4mm			17.25 x 6.4	38-1032-ND	20.00	HK-6.4
5	Housing Kit, 10.4mm			17.8 x 10.44	38-1000-ND	18.00	HK-10.4
6	Laser Driver Circuit (APC) for 10.4mm Housing			5.4 x 7.8	38-1009-ND†	14.00	NS102-200K
	Laser Driver Circuit (APC) for 6.4mm Housing			5.0 x 9.0	38-1031-ND†	14.00	NS102A-200K
—	5.6mm ~ 9mm Adapter, Non-threaded				38-1033-ND	4.00	AD 5.6-9MM
	5.6mm ~ 9mm Adapter, Threaded				38-1001-ND	5.00	THAD 5.6-9MM

* Module denotes complete assembly † For use with 660, 650, 640 and 635nm diodes only

SHARP MICROELECTRONICS OF THE AMERICAS

Laser Diodes

RoHS COMPLIANT

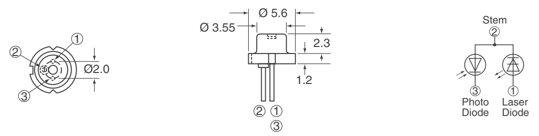

Optical Power Output	Oper. Current (Typ.)	Oper. Volt. (Typ.)	Wave-length (Typ.)	Half Intensity Typ.† Parallel	Half Intensity Typ.† Perpendicular	Oper. Temp. °C	Digi-Key Part No.	Price Each 1	Price Each 10
50mW	80mA	2.8	654nm	8.5°	21°	-5 ~ 70	425-1807-ND	64.32	56.20

† Angle at 50% peak intensity (full-width at half-maximum). Parallel to the junction plane (X-Z plane) Perpendicular to the junction plane (Y-Z plane)

LUMEX® Creating LED and LCD Solutions Together™

Infrared Diodes

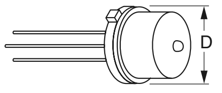

Detection Range λ (nm)	Rise/Fall Time (ns)	Forward Current (mA)	Reverse Voltage (V)	Operating Temp. (°C)	Diameter D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Pin Photo Diode								
1100/1600	0.3	2	25	-40 ~ 85	5.35	67-1505-ND	37.90	OED-PPD11075G-B

Quarton

RoHS COMPLIANT

Visible Laser Diode Modules

Fig. 1

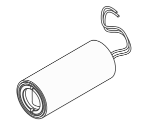

Fig. 2

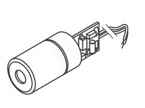

Fig. 3

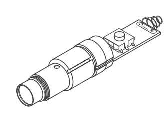

Fig. 4

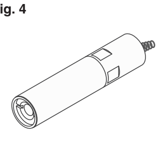

Fig. 5

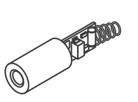

Fig. 6

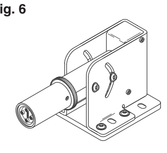

Fig.	Emission Wavelength Typ. (nm)	Cw Output Power (mW)	Operating Current (mA)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	650	≤3	40±15	VLM-650-01-LPA-ND	15.88	14.30	13.35
	635	≤3	40±15	VLM-635-01-LPA-ND	32.92	29.63	27.65
	650	≤2.5	40±15	VLM-650-03-LPA-ND	9.35	8.42	7.86
	650	≤3	40±15	VLM-650-27-LPA-ND	41.07	36.96	34.50
	635	≤3	40±15	VLM-635-27-LPA-ND	48.32	43.49	40.59
	650	≤2.5	40±15	VLM-650-03-LPT-ND	9.35	8.42	7.86
2	650	≤3	40±15	VLM-650-02-LPA-ND	16.43	14.79	13.81
	635	≤3	40±15	VLM-635-02-LPA-ND	42.17	37.95	35.42
	635	≤2.5	40±15	VLM-635-04-LPA-ND	22.55	20.30	18.95
	650	≤2.5	40±15	VLM-650-04-LPA-ND	9.48	8.54	7.97
3	532	≤5	270 ~ 350	VLM-532-42-SCA-ND	107.82	97.04	90.57
4	532	≤5	270 ~ 350	VLM-532-43-SCA-ND	155.73	140.16	130.82
	532	≤10	270 ~ 350	VLM-532-43-SCB-ND	227.60	204.84	191.19
5	650	≤2.5	40±15	VLM-650-04-SPA-ND	10.08	9.08	8.47
6	635	≤1	40±5	T155-27001-ND	95.83	86.25	80.50

Panasonic®

Aspherical Glass Lenses

RoHS COMPLIANT

Wave Length (nm)	Numerical Aperture	Focal Length (mm)	Working Distance (mm)	Lens Diameter (mm)	Mass (Weight) (mg)	Abbe Number	Cover Glass (mm)	Digi-Key Part No	Pkg.	Price Per Package	Panasonic Part No.
650	0.60	2.33	1.27	3.80	20.3	58	0.6	P13565-ND	5 pc.	115.50	EYL-GUDM128E
650	0.60	2.33	1.27	3.80	20.3	58	0.6	P13566-ND	110 pc.	2541.00	EYL-GUDM128

Lightweight, high-performance aspherical glass lenses for various optical electronics applications.
Applications: • Pickup lens for optical drive devices • Collimator lens for laser beam printers • Coupling lens for optical communication systems • Image formation lens for sensors • Imaging device for CCD, CMOS
Features: • “One Shot” precision manufacturing process for an extremely compact, lightweight and high performance lens • High-quality processing and measurement techniques for superior performance • Short focal length for compact size • High numerical aperture achieved via aspherical design • Wide temperature and humidity range for increased reliability and stability • Various lenses and lens material available for many different applications
Specifications: • Operating Temperature Range: -30°C ~ 85°C

LED 7-Segment Displays Through-Hole

Fig. 1

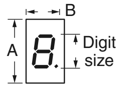

Fig. 2

Only .56" (14.20mm) and .80" (20.32mm) have active decimal points.

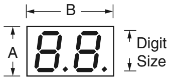

Fig. 3

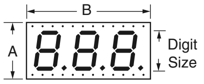

Fig. 4

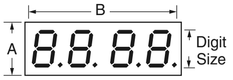

Fig. 5 — Right Angle

Multiplexed

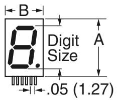

Fig. 6 — Right Angle

Multiplexed.
Only .56" (14.20mm) has decimal points.

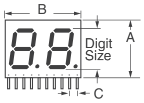

Size	No. of Pins	Dim. C In. (mm)
.56"	10	.10 (2.49)
.30"	9	.05 (1.27)

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions Inch (mm) A x B	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each			Lumex Part No. Common Anode	Lumex Part No. Common Cathode
									1	10	100		
1	Red/Orange	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.0	10	2000/3500	67-1403-ND◆	67-1406-ND◆	2.00	1.77	1.14	LDS-A304RI	LDS-C304RI
	Green	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.2	10	2500/3500	67-1404-ND◆	67-1407-ND◆	2.00	1.77	1.14	LDS-A302RI	LDS-C302RI
	Yellow	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.1	10	2500/2000	67-1405-ND◆	67-1408-ND◆	2.00	1.77	1.14	LDS-A303RI	LDS-C303RI
	Super-Red	.30 (7.62)	.75 x .40 (19.05 x 10.16)	1.7	10	6000/6000	67-1413-ND◆	67-1414-ND◆	2.94	2.61	1.68	LDS-A306RI	LDS-C306RI
	Green	.30 (7.62)	.75 x .40 (19.10 x 10.18)	2.2	10	2500/3500	67-2104-5-ND◆✔	67-2108-5-ND◆✔	1.91	1.70	1.10	LDS-HTA302RI	LDS-HTC302RI
	Red	.30 (7.62)	.75 x .40 (19.10 x 10.18)	2.0	10	2000/3500	67-2105-5-ND◆✔	67-2109-5-ND◆✔	1.91	1.70	1.10	LDS-HTA304RI	LDS-HTC304RI
	Red/Orange	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.0	10	5000/5000	67-1415-ND◆	67-1417-ND◆	2.35	2.08	1.34	LDS-A324RI	LDS-C324RI
	Green	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.2	10	3000/3000	67-1416-ND◆	67-1418-ND◆	2.35	2.08	1.34	LDS-A322RI	LDS-C322RI
	Red/Orange	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.0	10	3900/5600	67-1431-ND◆	67-1434-ND◆	2.00	1.77	1.14	LDS-A414RI	LDS-C414RI
	Green	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.2	10	3900/3500	67-1432-ND◆	67-1435-ND	2.00	1.77	1.14	LDS-A412RI	LDS-C412RI
	Yellow	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.1	10	3900/3500	67-1433-ND◆	67-1436-ND◆	2.00	1.77	1.14	LDS-A413RI	LDS-C413RI
	Super-Red	.43 (10.92)	.74 x .50 (18.90 x 12.60)	1.8	10	13000/9800	67-1445-ND◆	67-1446-ND◆	2.94	2.61	1.68	LDS-A416RI	LDS-C416RI
	Red/Orange	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.0	10	5000/3900	67-1451-ND◆	67-1453-ND◆	2.35	2.08	1.34	LDS-A504RI	LDS-C504RI
	Green	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.2	10	3900/3900	67-1452-ND◆	67-1454-ND◆	2.35	2.08	1.34	LDS-A502RI	LDS-C502RI
	Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.0	10	3900/2500	67-1463-ND◆	67-1466-ND◆	2.00	1.77	1.14	LDS-A514RI	LDS-C514RI
	Green	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.2	10	2250/2500	67-1464-ND◆	67-1467-ND◆	2.00	1.77	1.14	LDS-A512RI	LDS-C512RI
	Yellow	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.1	10	3900/—	67-1465-ND	67-1468-ND◆	2.00	1.77	1.14	LDS-A513RI	LDS-C513RI
	Super-Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	1.7	10	12000/13300	67-1475-ND◆	67-1476-ND◆	2.94	2.61	1.68	LDS-A516RI	LDS-C516RI
	Green	.56 (14.22)	.75 x .50 (19.00 x 12.60)	2.2	10	3900/3500	67-2106-5-ND◆✔	67-2110-5-ND◆✔	1.91	1.70	1.10	LDS-HTA512RI	LDS-HTC512RI
	Red	.56 (14.22)	.75 x .50 (19.00 x 12.60)	2.0	10	3900/3900	67-2107-5-ND◆✔	67-2111-5-ND◆✔	1.91	1.70	1.10	LDS-HTA514RI	LDS-HTC514RI
	Red/Orange	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.0	10	5600/5600	67-1477-ND◆	67-1480-ND◆	2.91	2.58	1.66	LDS-A814RI	LDS-C814RI
	Green	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.2	10	3500/3500	67-1478-ND◆	67-1481-ND◆	2.91	2.58	1.66	LDS-A812RI	LDS-C812RI
	Yellow	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.1	10	3500/3500	67-1479-ND	67-1482-ND◆	2.91	2.58	1.66	LDS-A813RI	LDS-C813RI
	Super-Red	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	1.7	10	12000/12000	67-1483-ND◆	67-1484-ND◆	3.42	2.85	2.06	LDS-A816RI	LDS-C816RI
	Red/Orange	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.0	10	9800/9800	67-1485-ND◆	67-1487-ND◆	3.36	2.80	2.02	LDS-AA14RI	LDS-CA14RI
	Green	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.4	10	6300/6300	67-1486-ND	67-1488-ND	3.36	2.80	2.02	LDS-AA12RI	LDS-CA12RI
	Red/Orange	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.0	10	9000/9500	67-1489-ND◆	67-1491-ND	9.12	8.26	5.51	LDS-AD14RI	LDS-CD14RI
	Green	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.8	10	7000/7000	67-1490-ND◆	67-1492-ND	9.12	8.26	5.51	LDS-AD12RI	LDS-CD12RI
	Super-Red	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	6.8	10	21000/21000	67-1493-ND◆	67-1494-ND◆	10.44	9.46	6.31	LDS-AD16RI	LDS-CD16RI
2	Red/Orange	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.0	10	2000/2000	67-1409-ND◆†	67-1411-ND◆†	3.19	2.83	1.82	LDD-E304NI	LDD-F304NI
	Green	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.2	10	2500/2500	67-1410-ND◆†	67-1412-ND◆†	3.19	2.83	1.82	LDD-E302NI	LDD-F302NI
	Green	.30 (7.62)	.61 x .59 (15.50 x 15.00)	2.2	10	2500/—	67-2100-5-ND◆✔	—	2.61	2.31	1.49	LDD-HTE302NI	—
	Red	.30 (7.62)	.61 x .59 (15.50 x 15.00)	2.0	10	2000/—	67-2101-5-ND◆✔	—	2.61	2.31	1.49	LDD-HTE304NI	—
	Green	.30 (7.62)	.61 x .59 (15.50 x 15.00)	2.2	10	3900/—	67-2102-5-ND◆✔	—	2.61	2.31	1.49	LDD-HTF302NI	—
	Red	.30 (7.62)	.61 x .59 (15.50 x 15.00)	2.0	10	3900/—	67-2103-5-ND◆✔	—	2.61	2.31	1.49	LDD-HTF304NI	—
	Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.0	10	3900/3900	67-1437-ND	67-1438-ND◆	3.05	2.70	1.74	LDD-A404NI	LDD-C404NI
	Green	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.2	10	3900/3900	67-1419-ND◆	67-1421-ND	3.05	2.70	1.74	LDD-A402NI	LDD-C402NI
	Yellow	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.1	10	3900/3900	67-1420-ND◆	67-1422-ND◆	3.05	2.70	1.74	LDD-A403NI	LDD-C403NI
	Super-Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	1.7	10	6300/6300	67-1447-ND◆	67-1448-ND◆	4.02	3.35	2.42	LDD-A406NI	LDD-C406NI
	Red/Orange	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.0	10	3900/3900	67-1455-ND◆	67-1458-ND◆	3.05	2.70	1.74	LDD-A514RI	LDD-C514RI
	Green	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.2	10	3900/3900	67-1456-ND◆	67-1459-ND◆	3.05	2.70	1.74	LDD-A512RI	LDD-C512RI
	Yellow	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.1	10	3900/3900	67-1457-ND◆	67-1460-ND◆	3.05	2.70	1.74	LDD-A513RI	LDD-C513RI
	Super-Red	.56 (14.22)	.75 x .98 (19.05 x 24.89)	1.7	10	13000/13300	67-1461-ND◆	67-1462-ND◆	4.02	3.35	2.42	LDD-A516RI	LDD-C516RI
	Green	.56 (14.22)	.98 x .75 (25.00 x 19.00)	2.2	10	—/3500	—	67-2096-5-ND◆✔	2.61	2.31	1.49	—	LDD-HTA512RI
	Red	.56 (14.22)	.98 x .75 (25.00 x 19.00)	2.0	10	—/3500	—	67-2097-5-ND◆✔	2.61	2.31	1.49	—	LDD-HTA514RI
	Green	.56 (14.22)	.98 x .75 (25.00 x 19.00)	2.2	10	—/3500	—	67-2098-5-ND◆✔	2.61	2.31	1.49	—	LDD-HTC512RI
	Red	.56 (14.22)	.98 x .75 (25.00 x 19.00)	2.0	10	—/3900	—	67-2099-5-ND◆✔	2.61	2.31	1.49	—	LDD-HTC514RI
	Red/Orange	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.0	10	3900/3900	67-1469-ND◆	67-1472-ND◆	4.35	3.63	2.61	LDD-A814RI	LDD-C814RI
	Green	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.2	10	3900/3900	67-1470-ND◆	67-1473-ND	4.35	3.63	2.61	LDD-A812RI	LDD-C812RI
	Yellow	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.1	10	3900/3900	67-1471-ND◆	67-1474-ND◆	4.35	3.63	2.61	LDD-A813RI	LDD-C813RI
3	Red/Orange	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.0	10	3900/5600	67-1423-ND◆	67-1425-ND◆	5.55	4.63	3.33	LDT-A514RI	LDT-C514RI
	Green	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.2	10	3900/3500	67-1424-ND◆	67-1426-ND◆	5.55	4.63	3.33	LDT-A512RI	LDT-C512RI
4	Red/Orange	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.0	10	5000/—	67-1427-ND◆†•	—	7.13	6.46	4.31	LDQ-M284RI	—
	Green	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.2	10	2200/—	67-1428-ND◆†•	—	7.13	6.46	4.31	LDQ-M282RI	—
	Yellow	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.1	10	3000/—	67-1429-ND◆†•	—	7.13	6.46	4.31	LDQ-M283RI	—
	Super-Red	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	1.7	10	9000/—	67-1430-ND◆†•	—	7.44	6.20	4.47	LDQ-M286RI	—
	Red/Orange	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.0	10	3900/3900	67-1439-ND◆†	67-1442-ND◆†	7.13	6.46	4.31	LDQ-M514RI	LDQ-N514RI
	Green	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.2	10	3900/—	67-1440-ND◆†	—	7.13	6.46	4.31	LDQ-M512RI	—
	Yellow	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	3900/3900	67-1441-ND◆†	67-1444-ND◆†	7.13	6.46	4.31	LDQ-M513RI	LDQ-N513RI
	Super-Red	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	1.7	10	13300/13300	67-1449-ND◆†	67-1450-ND◆†	7.13	6.46	4.31	LDQ-M516RI	LDQ-N516RI
5	Red	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.0	10	3400/3400	67-1512-ND◆†	67-1513-ND†	2.52	2.24	1.44	LDS-M514RI-RA	LDS-N514RI-RA
	Green	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.2	10	2250/3500	67-1514-ND◆†	67-1515-ND†	2.52	2.24	1.44	LDS-M512RI-RA	LDS-N512RI-RA
6	Red	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	2000/2000	67-1516-ND◆†‡	67-1517-ND◆†‡	3.69	3.08	2.22	LDD-E304NI-RA	LDD-F304NI-RA
	Green	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.2	10	2500/2500	67-1518-ND◆†‡	67-1519-ND†‡	3.69	3.08	2.22	LDD-E302NI-RA	LDD-F302NI-RA
	Red	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.0	10	3900/3900	67-1520-ND◆†	67-1521-ND†	3.64	3.03	2.19	LDD-M514RI-RA	LDD-N514RI-RA
	Green	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.2	10	3900/3900	67-1522-ND†	67-1523-ND†	3.64	3.03	2.19	LDD-M512RI-RA	LDD-N512RI-RA

◆ ***RoHS Compliant*** † Multiplexed Display • Inactive colon on display ‡ Non standard segment connections ✔ ***NEW!***

Large Liquid Crystal 7-Segment Displays

Digit Size Inch (mm)	Dimensions - Inch (mm) A x B	Driving Method	Digi-Key Part No.	Price Each			Lumex Part No.
				1	10	100	
1.36 (34.54)	1.97 x 1.30 (50.00 x 33.00)	Static, 1/2 Bias	67-1506-ND	4.65	3.88	2.79	LCD-S101D14TR
2.21 (56.13)	3.00 x 2.20 (76.20 x 55.88)	Static	67-1507-ND	9.33	8.45	5.64	LCD-S101D22TR
2.99 (76.00)	4.03 x 3.00 (102.40 x 76.20)	Static	67-1508-ND	20.75	19.87	13.25	LCD-S101D30TR
4.00 (101.60)	4.83 x 3.20 (122.56 x 81.28)	Static, 1/2 Bias	67-1509-ND	24.57	21.72	16.58	LCD-S101D40TR

SPECIFICATIONS:

- Fluid Type: TN
- Background Color: Gray
- Viewing Direction: 6:00
- Display Mode: Reflective
- Operating Voltage: 3.0 ~ 5.0VAC
- Operating Temperature: 0°C ~ 50°C
- Storage Temperature: -20°C ~ 70°C
- Can be driven with the CD4543BE

Note: 4" display does not have decimal point. Pin count varies with display height.

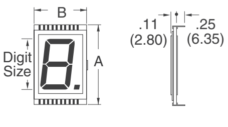

LUMEX
Creating LED and LCD Solutions Together™

High Brightness LEDs

Fig. 1

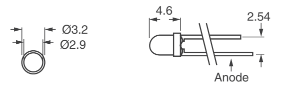

Fig. 2

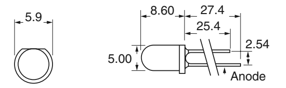

Fig. 3

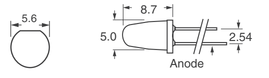

Fig. 4

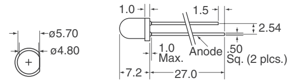

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	250	Lumex Part No.
1	T-1 (3mm)	Sup. Orange	Water Clear	620	2.0	30	1000	30	67-1074-ND	1.32	10.73	74.25	165.00	SSL-LX3044SOC
	T-1 (3mm)	Sup. Yellow	Water Clear	590	2.1	30	1000	30	67-1076-ND	1.15	9.36	64.80	144.00	SSL-LX3044SYC
	T-1 (3mm)	Green	Water Clear	502	3.5	25	1100	30	67-1754-ND	3.19	28.21	182.00	409.50	SSL-LX3044UEGC
2	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	2800	30	67-1612-ND	.81	6.27	44.75	98.45	SSL-LX5093SRC/E
	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	1800	30	67-1611-ND	.81	6.27	44.75	98.45	SSL-LX5093SRC/DW
	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	1500	30	67-1610-ND	.63	4.56	29.76	62.78	SSL-LX5093SRC/DV
	T-1 3/4 (5mm)	Sup. Orange	Water Clear	610	2.0	30	2500	30	67-1113-ND	1.32	10.73	74.25	165.00	SSL-LX5093SOC
	T-1 3/4 (5mm)	Sup. Yellow	Water Clear	590	2.1	30	1000	30	67-1115-ND	1.07	8.33	59.50	130.90	SSL-LX5093SYC
	T-1 3/4 (5mm)	Green	Water Clear	502	3.5	25	1500	30	67-1755-ND	3.19	28.21	182.00	409.50	SSL-LX5093UEGC
3	T-1 3/4 (5mm)	Red	Water Clear	660	1.7	30	2500	20	67-1122-ND	.86	6.69	47.75	105.05	SSL-LX5093XRC/4
	T-1 3/4 (5mm)	Yellow	Water Clear	590	2.1	30	1300	20	67-1123-ND	1.33	10.79	74.70	166.00	SSL-LX5093XYC
4	T-1 3/4 (4.7mm)	Green	Water Clear	502	3.5	25	1000	30	67-1756-ND	3.19	28.21	182.00	409.50	SSL-LX4073UEGC

White LEDs

Digi-Reel®

Fig. 1

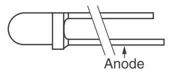

Fig. 2

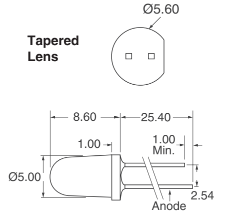

Fig. 3

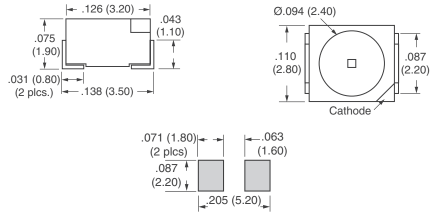

Fig. 4

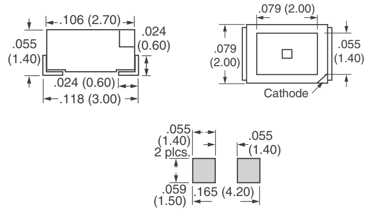

Fig.	Description (mm)	Emitted Color	Lens	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Lumex Part No.
1	T-1 (3mm)	White	Water Clear	3.6	30	750	40	67-1606-ND	4.50	37.50	270.00	600.00	—	—	—	SSL-LX3054UWC/A
	T-1 (3mm)	White	Water Clear	3.5	30	3,300	30	67-1690-ND	1.78	14.43	99.90	222.00	—	—	—	SLX-LX3054UWC
	T-1 (3mm)	White	Water Clear	3.6	30	800	30	67-1954-ND	3.08	27.28	176.00	396.00	—	—	—	SSL-LX3044UWC
	T-1 (3mm)	White	Water Clear	3.6	30	900	20	67-1955-ND	3.08	27.28	176.00	396.00	—	—	—	SSL-LX3054UWC/B
	T-1 3/4 (5mm)	White	Water Clear	3.6	30	740	45	67-1605-ND	4.50	37.50	270.00	600.00	—	—	—	SSL-LX5093UWC/A
	T-1 3/4 (5mm)	White	Water Clear	3.0	25	3,500	40	67-1691-ND	1.38	11.25	77.85	173.00	—	—	—	SLX-LX5093UWC/C
	T-1 3/4 (5mm)	White	Water Clear	3.5	25	8,000	20	67-1693-ND	1.78	14.43	99.90	222.00	—	—	—	SLX-LX5093UWC/E
	T-1 3/4 (5mm)	White	Water Clear	3.5	25	9,000	20	67-1694-ND	1.93	17.05	110.00	247.50	—	—	—	SLX-LX5093UWC/F
	T-1 3/4 (5mm)	White	Water Clear	3.5	25	11,000	20	67-2027-ND	1.86	16.49	106.40	239.40	—	—	—	SSL-LX5093UWC/G
2	T-1 3/4 (5mm)	White	Water Clear	3.5	25	11,000	25	67-1695-ND	2.05	18.17	117.20	263.70	—	—	—	SLX-LX5093UWC/G
	T-1 3/4 (5mm)	White	Water Clear	3.6	30	680	34	67-1696-ND	3.11	27.53	177.60	399.60	—	—	—	SLX-LX5093UWW
	T-1 3/4 (5mm)	White	Water Clear	3.6	30	2,300	15	67-1604-ND	4.50	37.50	270.00	600.00	—	—	—	SSL-LX5093XUWC
3	3.2 x 2.8	White	Water Clear	3.5	30	150	120	67-1608-1-ND†	4.95	41.25	300.00	656.25	67-1608-2-ND	1,500	1995.00/M	SML-LX2832UWC-TR
4	2.7 x 2.0	White	Water Clear	3.5	30	150	120	67-1607-1-ND†	4.72	39.33	286.00	625.63	67-1607-2-ND	2,000	1788.00/M	SML-LX23UWC-TR
—	0603	White	Yellow Diffused	3.5	20	65	140	67-1959-1-ND†	1.82	14.58	101.25	222.75	67-1959-2-ND	4,000	539.00/M	SML-LX0603UWD-TR

† Cut Tape

Blue LEDs

Fig. 1

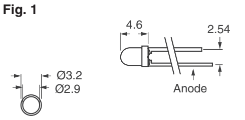

Fig. 2

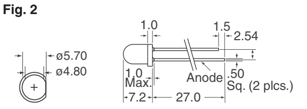

Fig. 3

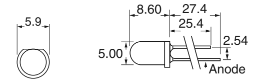

Fig. 4

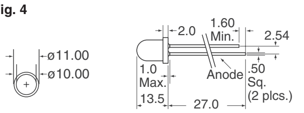

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	250	Lumex Part No.
1	T-1 (3mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1747-ND	3.12	27.59	178.00	400.50	SSL-LX3044USBC
	T-1 (3mm)	Blue	Blue Diff.	470	3.5	30	80	60	67-1748-ND	3.12	27.59	178.00	400.50	SSL-LX3044USBD
2	T-1 3/4 (4.7mm)	Blue	Water Clear	470	3.5	30	750	30	67-1749-ND	3.12	27.59	178.00	400.50	SSL-LX4073USBC
3	T-1 3/4 (5mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1750-ND	3.12	27.59	178.00	400.50	SSL-LX5093USBC
	T-1 3/4 (5mm)	Blue	Blue Diff.	470	3.5	30	300	60	67-1751-ND	3.12	27.59	178.00	400.50	SSL-LX5093USBD
4	10mm	Blue	Water Clear	470	3.6	30	800	15	67-1752-ND	3.66	30.50	219.60	488.00	SSL-LX100133USBC
	10mm	Blue	Blue Diff.	470	3.6	30	300	60	67-1753-ND	3.66	30.50	219.60	488.00	SSL-LX100133USBD

Fig. 1

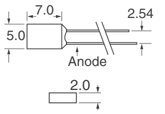

Fig. 2

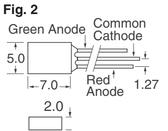

Fig. 3

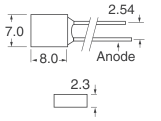

Fig. 4

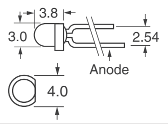

Fig. 5

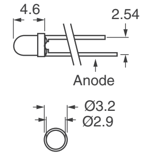

Fig. 6

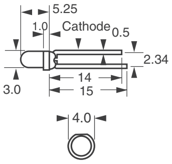

Fig. 7

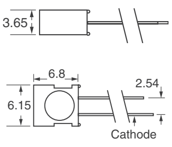

Fig. 8

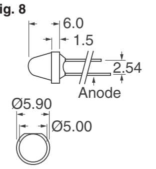

Fig. 9

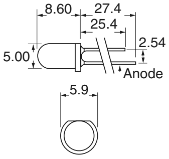

Fig. 10

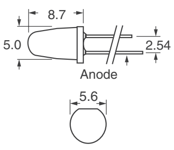

Fig. 11

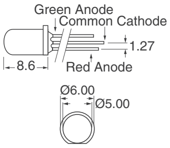

Fig. 12

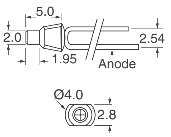

Fig. 13

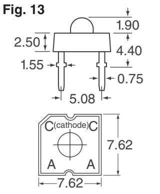

Fig. 14

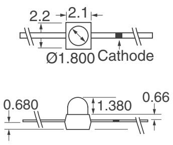

Fig. 15

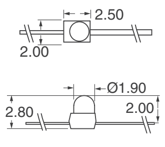

Fig. 16 (RGB)

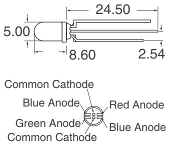

Fig. 17

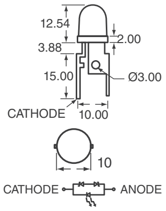

Fig. 18 ***NEW!***

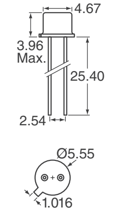

Fig.	Descrip-tion	Emitted Color	Lens	Wave length (nm)	Peak Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing				Lumex Part No.
										1	10	100	250	
1	Rect. (2x5mm)	Sup. Red	Red Diff.	660	1.7	30	80	110	67-1049-ND◆	.48	3.48	22.72	47.93	SSL-LX2573SRD
		Red	Red Diff.	635	2.0	30	10	110	67-1047-ND◆	.55	3.96	22.88	41.25	SSL-LX2573ID
		Amber	Amber Diff.	605	2.0	30	5	110	67-1045-ND◆	.41	2.94	19.20	40.50	SSL-LX2573AD
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1050-ND◆	.40	2.82	18.80	38.19	SSL-LX2573YD
		Green	Green Diff.	565	2.2	25	10	110	67-1046-ND◆	.51	3.69	21.32	38.44	SSL-LX2573GD
		Pure Green	Green Diff.	555	2.1	25	6	110	67-1048-ND◆	.41	2.94	19.20	40.50	SSL-LX2573PGD
2	Rect. (2x5mm)	Red	White Diff.	635	2.0	30	10	90	67-1051-ND◆	.73	5.67	40.50	89.10	SSL-LX2577IGW
		Green	White Diff.	565	2.2	25	10	90						
3	Rect. (2.3x7mm)	Sup. Red	Red Diff.	660	1.8	30	50	110	67-1054-ND	.60	4.31	28.16	59.40	SSL-LX25783SRD
		Red	Red Diff.	635	2.0	30	9	80	67-1053-ND◆	.40	2.82	18.80	38.19	SSL-LX25783ID
		Yellow	Yellow Diff.	585	2.1	30	4	110	67-1055-ND◆	.40	2.82	18.80	38.19	SSL-LX25783YD
		Green	Green Diff.	565	2.2	25	9	110	67-1052-ND◆	.40	2.82	18.80	38.19	SSL-LX25783GD
4	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	10	60	67-1057-ND◆	.44	3.19	20.80	43.88	SSL-LX3034YD
		Green	Green Diff.	565	2.2	25	10	60	67-1056-ND◆	.41	2.94	19.20	40.50	SSL-LX3034GD
5	T-1 (3mm)	Red	Red Diff.	635	12.0	12	6	60	67-1067-ND◆	.53	4.10	29.40	65.63	SSL-LX3044ID-12V
		Yellow	Yellow Diff.	585	12.0	12	6	60	67-1079-ND◆	.53	4.10	29.40	65.63	SSL-LX3044YD-12V
		Green	Green Diff.	565	12.0	12	6	60	67-1061-ND◆	.53	4.10	29.40	65.63	SSL-LX3044GD-12V
		Red	Red Diff.	635	5.0	12	6	60	67-1068-ND◆	.66	5.15	36.96	82.50	SSL-LX3044ID-5V
		Yellow	Yellow Diff.	585	5.0	12	6	60	67-1080-ND◆	.66	5.15	36.96	82.50	SSL-LX3044YD-5V
		Green	Green Diff.	565	5.0	12	6	60	67-1062-ND◆	.66	5.15	36.96	82.50	SSL-LX3044GD-5V
		Dark Red	Red Diff.	700	2.0	25	6	60	67-1064-ND◆	.49	3.51	20.28	36.56	SSL-LX3044HD
		Sup. Red	Water Clear	660	1.8	30	600	30	67-1647-ND◆	.56	4.33	31.08	69.38	SSL-LX3044SRC/D
		Red	Water Clear	635	2.1	30	125	30	67-1065-ND◆	.42	2.94	19.60	39.81	SSL-LX3044IC
		Red	Red Diff.	635	2.0	30	30	60	67-1066-ND◆	.47	3.30	22.00	44.69	SSL-LX3044ID
		Red	Red Trans.	635	2.0	30	30	30	67-1069-ND◆	.42	2.94	19.60	39.81	SSL-LX3044IT
		Amber	Amber Diff.	605	2.1	30	15	60	67-1058-ND◆	.42	2.94	19.60	39.81	SSL-LX3044AD
		Yellow	Water Clear	585	2.1	30	90	30	67-1077-ND◆	.43	3.06	20.40	41.44	SSL-LX3044YC
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1078-ND◆	.40	2.82	18.80	38.19	SSL-LX3044YD
		Yellow	Yellow Trans.	585	2.1	30	90	30	67-1081-ND◆	.47	3.38	22.08	46.58	SSL-LX3044YT
		Green	Water Clear	565	2.2	25	100	30	67-1059-ND◆	.41	2.88	19.20	39.00	SSL-LX3044GC
		Green	Green Diff.	565	2.2	25	40	60	67-1060-ND◆	.55	3.96	22.88	41.25	SSL-LX3044GD
		Green	Green Trans.	565	2.2	25	40	30	67-1063-ND◆	.41	2.88	19.20	39.00	SSL-LX3044GT
		Pure Green	Green Diff.	555	2.2	25	20	60	67-1073-ND◆	.46	3.24	21.60	43.88	SSL-LX3044PGD
		Red	Red Diff.	635	2.0	30	30	60	67-1071-ND◆†	.39	2.76	18.40	37.38	SSL-LX3044LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1072-ND◆†	.38	2.70	18.00	36.56	SSL-LX3044LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1070-ND◆†	.53	3.78	21.84	39.38	SSL-LX3044LGD
6	T-1 (3mm)	Red	Red Diff.	635	2.1	30	30	60	67-1402-ND◆	.50	3.54	23.60	47.94	SSL-LX3052ID
		Yellow	Yellow Diff.	585	2.1	30	15	80	67-1397-ND◆	.41	2.94	19.20	40.50	SSL-LX3052YD
		Green	Green Diff.	565	2.2	25	15	80	67-1396-ND◆	.41	2.94	19.20	40.50	SSL-LX3052GD
7	Rect. (4x7mm)	Red	Red Diff.	635	2.0	30	12	100	67-1083-ND◆	.52	4.02	28.84	64.38	SSL-LX4673ID-LA20
		Yellow	Yellow Diff.	585	2.1	30	6	100	67-1084-ND◆	.52	4.02	28.84	64.38	SSL-LX4673YD-LA20
		Green	Green Diff.	565	2.2	25	6	100	67-1082-ND◆	.52	4.02	28.84	64.38	SSL-LX4673GD-LA20
8	T-1 3/4 (5mm)	Red	Red Diff.	700	2.0	25	5	60	67-1088-ND◆	.38	2.70	18.00	36.56	SSL-LX5063HD
		Red	Water Clear	635	2.0	30	160	30	67-1089-ND◆	.41	2.94	19.20	40.50	SSL-LX5063IC
		Red	Red Diff.	635	2.0	30	40	60	67-1090-ND◆	.43	3.06	20.40	41.44	SSL-LX5063ID
		Red	Red Trans.	635	2.0	30	160	30	67-1091-ND◆	.48	3.42	22.80	46.31	SSL-LX5063IT
		Yellow	Water Clear	585	2.1	30	100	30	67-1093-ND◆	.49	3.53	23.04	48.60	SSL-LX5063YC
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1094-ND◆	.48	3.42	22.80	46.31	SSL-LX5063YD
		Yellow	YellowTrans.	585	2.1	30	100	30	67-1095-ND	.49	3.48	23.20	47.13	SSL-LX5063YT
		Green	Water Clear	565	2.2	25	100	30	67-1085-ND◆	.53	3.82	24.96	52.65	SSL-LX5063GC
		Green	Green Diff.	565	2.2	25	30	60	67-1086-ND◆	.41	2.88	19.20	39.00	SSL-LX5063GD
		Green	Green Trans.	565	2.0	25	100	30	67-1087-ND◆	.43	3.06	20.40	41.44	SSL-LX5063GT
		Green	Green Trans.	565	2.2	25	100	30	67-1092-ND†	.53	3.82	24.96	52.65	SSL-LX5063LGT
9	T-1 3/4 (5mm)	Green	Green Diff.	565	12.0	12	20	60	67-1099-ND◆	.66	5.15	36.96	82.50	SSL-LX5093GD-12V
		Red	Red Diff.	700	5.0	12	3	60	67-1103-ND◆	.53	4.10	29.40	65.63	SSL-LX5093HD-5V
		Red	Red Diff.	635	5.0	12	20	60	67-1106-ND◆	.53	4.10	29.40	65.63	SSL-LX5093ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1100-ND◆	.53	4.10	29.40	65.63	SSL-LX5093GD-5V
		Red	Red Diff.	700	2.0	25	5	60	67-1102-ND◆	.49	3.51	20.28	36.56	SSL-LX5093HD
		Red	Red Trans.	700	2.0	25	25	30	67-1104-ND◆	.44	3.12	20.80	42.25	SSL-LX5093HT
		Sup. Red	Red Diff.	660	1.7	30	250	60	67-1648-ND◆	.43	3.09	20.16	42.53	SSL-LX5093SRD/D
		Red	Red Diff.	635	2.0	30	40	60	67-1105-ND◆	.53	3.78	21.84	39.38	SSL-LX5093ID
		Red	Red Trans.	635	2.0	30	80	30	67-1107-ND◆	.42	2.94	19.60	39.81	SSL-LX5093IT
		Amber	Amber Diff.	605	2.0	30	30	60	67-1097-ND◆	.42	2.94	19.60	39.81	SSL-LX5093AD
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1116-ND◆	.38	2.70	18.00	36.56	SSL-LX5093YD
		Yellow	Yellow Trans.	585	2.1	30	40	30	67-1117-ND◆	.43	3.00	20.00	40.63	SSL-LX5093YT
		Green	Green Diff.	565	2.2	25	30	60	67-1098-ND◆	.51	3.69	21.32	38.44	SSL-LX5093GD
		Green	Green Trans.	565	2.2	25	50	30	67-1101-ND◆	.41	2.88	19.20	39.00	SSL-LX5093GT
		Pure Green	Green Diff.	555	2.2	25	15	60	67-1112-ND◆	.41	2.88	19.20	39.00	SSL-LX5093PGD
		Red	Red Diff.	635	2.0	30	40	60	67-1110-ND◆†	.39	2.76	18.40	37.38	SSL-LX5093LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1111-ND◆†	.39	2.76	18.40	37.38	SSL-LX5093LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1108-ND◆†	.54	3.87	22.36	40.31	SSL-LX5093LGD
		Green	Green Trans.	565	2.2	25	80	30	67-1109-ND◆†	.42	2.94	19.60	39.81	SSL-LX5093LGT
		Pink	Water Clear	—	3.2	30	2200	20	67-2062-ND◆	1.49	12.12	83.90	186.45	SSL-LX5093PC
		Turquoise	Water Clear	—	3.2	30	2200	20	67-2063-ND◆	1.49	12.12	83.90	186.45	SSL-LX5093TC
		Purple	Water Clear	—	3.2	30	2200	20	67-2064-ND◆	1.39	11.25	77.92	173.15	SSL-LX5093VC
10	T-1 3/4 (5mm)	Red	Water Clear	635	2.0	30	600	20	67-1120-ND◆	.41	2.94	19.20	40.50	SSL-LX5093XIC
		Amber	Water Clear	610	2.0	30	600	20	67-1118-ND◆	.67	4.80	31.36	66.15	SSL-LX5093XAC
		Green	Water Clear	565	2.2	25	250	20	67-1119-ND◆	.45	3.23	21.12	44.55	SSL-LX5093XGC
		Green	Water Clear	555	2.2	25	45	20	67-1121-ND◆	.67	4.85	31.68	66.83	SSL-LX5093XPGC
11	T-1 3/4 (5mm)	Red	White Diff.	635	2.1	30	20	60	67-1124-ND◆	.74	5.77	41.44	92.50	SSL-LX5097IGW
		Green	White Diff.	565	2.1	25	20	60						
12	T-3/4 (2mm)	Red	Red Diff.	635	2.0	30	25	70	67-1125-ND◆	.50	3.54	23.60	47.94	SSL-LX20465ID
		Yellow	Yellow Diff.	585	2.1	30	10	70	67-1126-ND◆	.41	2.94	19.20	40.50	SSL-LX20465YD
		Green	Green Diff.	565	2.2	25	10	70	67-1127-ND◆	.46	3.24	21.60	43.88	SSL-LX20465GD
13	Sq. T-1 (3mm)	Sup. Yellow	Water Clear	590	2.25	70	800	50	67-1128-ND	1.08	8.81	60.98	135.50	SSL-LX30448SYC
14	Axial (1.8mm)	Red	Red Diff.	635	5.0	30	8	60	67-1131-ND◆	.94	7.28	52.00	114.40	SSL-LXA227ID-5V
		Yellow	Yellow Diff.	585	5.0	20	8	60	67-1132-ND◆	.94	7.28	52.00	114.40	SSL-LXA227YD-5V
		Green	Green Diff.	565	5.0	30	8	60	67-1130-ND◆	.94	7.28	52.00	114.40	SSL-LXA227GD-5V
15	Axial (1.9mm)	Red	Water Clear	660	1.7	25	600	25	67-1137-ND◆†	.69	5.34	38.36	85.63	SSL-LXA228SRC
		Red	Red Diff.	660	1.7	25	150	50	67-1138-ND◆†	.69	5.39	38.50	84.70	SSL-LXA228SRD
		Red	Water Clear	635	2.0	30	30	25	67-1134-ND◆	.67	4.80	31.36	66.15	SSL-LXA228IC
		Red	Red Diff.	635	2.0	30	25	50	67-1135-ND◆	.61	4.41	28.80	60.75	SSL-LXA228ID
		Sup. Yellow	Water Clear	585	2.0	30	300	25	67-1139-ND	1.69	13.72	94.95	211.00	SSL-LXA228SYC
		Green	Water Clear	565	2.2	25	50	25	67-1136-ND◆	.59	4.56	32.76	73.13	SSL-LXA228SGC
		Green	Green Diff.	565	2.2	25	12	25	67-1133-ND◆	.61	4.41	28.80	60.75	SSL-LXA228GD
16	T-1 3/4 (5mm)	Red	Water Clear	636	1.9	30	600	30	67-1829-ND◆	7.26	60.50	435.60	968.00	SSL-LX5099SIUBSUGB
		Green	Water Clear	574	2.1	30	450	30						
		Blue	Water Clear	470	3.65	30	150	30						
17	Round (10mm)	Yellow	Water Clear	590	2.4	350	35lm	25	67-2057-ND◆	4.79	39.95	287.64	639.20	SSL-LX100T123SYC
		Red	Water Clear	636	2.0	350	45lm	25	67-2061-ND◆	4.79	39.95	287.64	639.20	SSL-LX100T123SIC
18	Round (4.67)	Ultra Violet	Water Clear	405	3.7	20	—	80	67-2088-ND◆✔	10.55	95.52	636.80	1492.50	SSL-LXTO46UV2C
		Ultra Violet	Water Clear	385	3.3	20	—	80	67-2089-ND◆✔	12.80	115.92	772.80	1811.25	SSL-LXTO46UV1C
		Ultra Violet	Water Clear	415	3.3	20	—	80	67-2090-ND◆✔	10.55	95.52	636.80	1492.50	SSL-LXTO46UV3C

◆ ***RoHS Compliant*** ✔ ***NEW!*** † Low Current Version Lights at (2mA)

PC Mount LEDs

Fig. 1

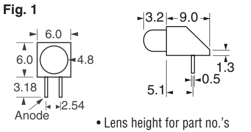

• Lens height for part no.'s 67-1308/09/10/11/12/13-ND = 4.70mm not 3.2mm

Fig. 2

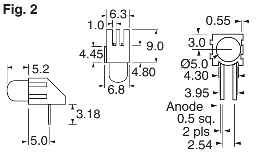

Fig. 3

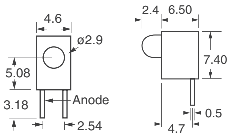

Fig. 4

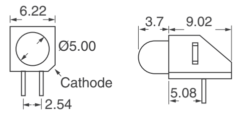

Fig. 5

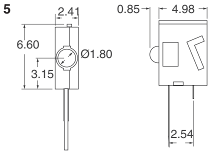

Fig. 6

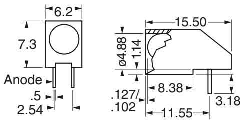

Fig. 7

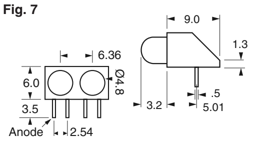

Fig. 8

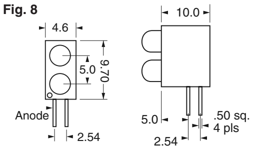

Fig. 9

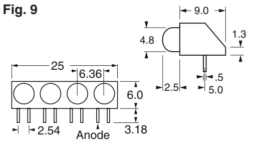

Fig. 10

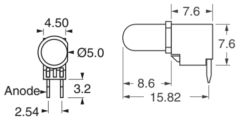

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	5mm	Red/Green	White Diffused	700/565	2.0/2.2	25	6/20	60	67-1221-ND◆	1.08	.84	.60	SSF-LXH100HGW
	5mm	Red	Red Diffused	635	5.0	12	30	60	67-1222-ND◆	1.08	.84	.60	SSF-LXH100ID-5V
	5mm	Red	Red Diffused	700	2.0	25	6	60	67-1308-ND◆	.72	.56	.40	SSF-LXH100HD-01
	5mm	Red	Red Diffused	660	1.7	30	60	60	67-1225-ND◆	1.08	.84	.60	SSF-LXH100SRD
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1309-ND◆	1.12	.91	.63	SSF-LXH100ID-01
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1217-ND◆	.68	.53	.38	SSF-LXH100ID
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1312-ND†	1.12	.91	.63	SSF-LXH100LID-01
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1219-ND◆†	.86	.67	.48	SSF-LXH100LID
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1311-ND◆	1.12	.91	.63	SSF-LXH100YD-01
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1224-ND◆	.68	.53	.38	SSF-LXH100YD
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1310-ND◆	1.12	.91	.63	SSF-LXH100GD-01
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1218-ND◆	.68	.53	.38	SSF-LXH100GD
	5mm	Green	Green Diffused	565	5.0	12	10	60	67-1223-ND◆	1.08	.84	.60	SSF-LXH100GD-5V
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1313-ND†	1.12	.91	.63	SSF-LXH100LGD-01
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1220-ND◆†	.86	.67	.48	SSF-LXH100LGD
2	5mm	Red/Green	White Diffused	700/565	2.0/2.2	30	6/20	60	67-1226-ND◆	1.08	.84	.60	SSF-LXH100MHGW
	5mm	Red	Red Diffused	635	5.0	12	20	60	67-1233-ND◆	1.08	.84	.60	SSF-LXH100MID-5V
	5mm	Red	Red Diffused	660	1.8	30	100	60	67-1230-ND◆	1.08	.84	.60	SSF-LXH100MSRD
	5mm	Red	Red Diffused	635	2.0	30	30	60	67-1227-ND◆	.68	.53	.38	SSF-LXH100MID
	5mm	Red	Red Diffused	635	2.0	30	30	60	67-1231-ND†	.86	.67	.48	SSF-LXH100MLID
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1229-ND◆	.68	.53	.38	SSF-LXH100MYD
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1228-ND◆	.68	.53	.38	SSF-LXH100MGD
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1232-ND◆†	.86	.67	.48	SSF-LXH100MLGD
	5mm	Green	Green Diffused	565	5.0	30	20	60	67-1234-ND◆	1.08	.84	.60	SSF-LXH100MGD-5V
3	3mm	Red	Red Diffused	635	5.0	12	9	60	67-1241-ND◆	.99	.77	.55	SSF-LXH103ID-5V
	3mm	Red	Red Diffused	660	1.8	30	80	60	67-1238-ND◆	.81	.63	.45	SSF-LXH103SRD
	3mm	Red	Red Diffused	635	2.0	30	40	60	67-1239-ND◆†	.81	.63	.45	SSF-LXH103LID
	3mm	Red	Red Diffused	635	2.0	30	30	60	67-1235-ND◆	.65	.51	.37	SSF-LXH103ID
	3mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1237-ND◆	.65	.51	.37	SSF-LXH103YD
	3mm	Green	Green Diffused	565	2.1	30	30	60	67-1236-ND◆	.65	.51	.37	SSF-LXH103GD
	3mm	Green	Green Diffused	565	2.1	25	30	60	67-1240-ND◆†	.81	.63	.45	SSF-LXH103LGD
	3mm	Green	Green Diffused	565	5.0	12	8	60	67-1242-ND◆	.99	.77	.55	SSF-LXH103GD-5V
	3mm	Blue	Blue Diffused	470	3.5	30	80	60	67-2028-ND◆	3.35	2.97	1.92	SSF-LXH103USBD
	3mm	White	Water Clear	550	3.6	30	500	30	67-2026-ND◆	3.48	3.09	1.99	SSF-LXH103UWC
4	5mm	Red	Red Diffused	700	5.0	12	3	60	67-1038-ND	1.26	1.03	.72	SSF-LXH104HD-5V
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1039-ND◆	.54	.43	.31	SSF-LXH104ID
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1040-ND◆	.54	.43	.31	SSF-LXH104YD
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1037-ND◆	.54	.43	.31	SSF-LXH104GD
5	1.8mm	Red	Red Diffused	635	2.0	30	8	60	67-1042-ND◆	1.36	1.11	.77	SSF-LXH555ID
	1.8mm	Yellow	Yellow Diffused	585	2.1	30	8	60	67-1043-ND◆	1.36	1.11	.77	SSF-LXH555YD
	1.8mm	Green	Green Diffused	565	2.1	25	8	60	67-1041-ND◆	1.36	1.11	.77	SSF-LXH555GD
6	5mm	Red/Green	White Diffused	700/565	2.1	30	5/8	60	67-1243-ND◆	1.08	.88	.61	SSF-LXH1071HGW
	5mm	Red	Red Diffused	660	1.7	30	40	60	67-1247-ND◆	1.08	.84	.60	SSF-LXH1071SRD
	5mm	Red	Red Diffused	635	2.1	30	40	60	67-1248-ND◆†	.99	.77	.55	SSF-LXH1071LID
	5mm	Green	Green Diffused	565	2.1	30	20	60	67-1245-ND◆	.81	.63	.45	SSF-LXH1071GD
7	5mm	Red	Red Diffused	660	1.8	30	100	60	67-1253-ND	1.44	1.17	.81	SSF-LXH2100SRD
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1250-ND◆	1.20	.98	.68	SSF-LXH2100ID
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1252-ND	1.20	.98	.68	SSF-LXH2100YD
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1251-ND	1.20	.98	.68	SSF-LXH2100GD
8	3mm	Red	Red Diffused	635	5.0	12	20	60	67-1260-ND	1.80	1.47	1.02	SSF-LXH2103IID-5V/4
	3mm	Red	Red Diffused	635	2.0	30	40	60	67-1254-ND◆	1.32	1.08	.75	SSF-LXH2103IID/4
	3mm	Red	Red Diffused	635	2.0	30	40	60	67-1258-ND◆†	1.60	1.30	.90	SSF-LXH2103LIID/4
	3mm	Sup. Red	Red Diffused	660	1.7	30	130	60	67-1257-ND◆	1.49	1.32	.85	SSF-LXH2103SRSRD/4
	3mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1256-ND◆	1.32	1.08	.75	SSF-LXH2103YYD/4
	3mm	Green	Green Diffused	565	5.0	12	20	60	67-1261-ND	1.80	1.47	1.02	SSF-LXH2103GGD-5V/4
	3mm	Green	Green Diffused	565	2.2	25	30	60	67-1255-ND◆	1.32	1.08	.75	SSF-LXH2103GGD/4
	3mm	Green	Green Diffused	565	2.2	25	30	60	67-1259-ND◆†	1.60	1.30	.90	SSF-LXH2103LGGD/4
9	5mm	Red/Green	White Diffused	700/565	2.1	25	4	60	67-1289-ND◆	2.73	2.42	1.56	SSF-LXH400HGW
	5mm	Red	Red Diffused	635	5.0	12	8	60	67-1290-ND◆	2.73	2.42	1.56	SSF-LXH400ID-5V
	5mm	Red	Red Diffused	660	1.7	30	100	60	67-1288-ND	2.73	2.42	1.56	SSF-LXH400SRD
	5mm	Red	Red Diffused	635	2.0	30	20	60	67-1285-ND◆	1.68	1.37	.95	SSF-LXH400ID
	5mm	Yellow	Yellow Diffused	585	2.1	30	20	60	67-1287-ND	1.68	1.37	.95	SSF-LXH400YD
	5mm	Green	Green Diffused	565	5.0	12	20	60	67-1291-ND	2.73	2.42	1.56	SSF-LXH400GD-5V
	5mm	Green	Green Diffused	565	2.1	25	20	60	67-1286-ND◆	1.68	1.37	.95	SSF-LXH400GD
10	5mm	Red/Green	White Diffused	700/565	2.1	25	6	60	67-1292-ND◆	1.84	1.50	1.04	SSF-LXH4RA5HGW
	5mm	Red	Red Diffused	635	5.0	12	30	60	67-1299-ND	1.84	1.50	1.04	SSF-LXH4RA5ID-5V
	5mm	Red	Red Diffused	660	1.7	30	80	60	67-1296-ND◆	1.84	1.50	1.04	SSF-LXH4RA5SRD
	5mm	Red	Red Diffused	635	2.1	30	40	60	67-1297-ND◆†	1.28	1.04	.72	SSF-LXH4RA5LID
	5mm	Red	Red Diffused	635	2.1	30	40	60	67-1293-ND◆	1.28	1.04	.72	SSF-LXH4RA5ID
	5mm	Red (blinking)	Red Diffused	635	3.5	70	20	60	67-1301-ND	3.08	2.73	1.76	SSF-LXH4RA5BID
	5mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1295-ND◆	1.28	1.04	.72	SSF-LXH4RA5YD
	5mm	Green	Green Diffused	565	5.0	12	15	60	67-1300-ND	1.84	1.50	1.04	SSF-LXH4RA5GD-5V
	5mm	Green	Green Diffused	565	2.1	25	30	60	67-1294-ND◆	1.28	1.04	.72	SSF-LXH4RA5GD
	5mm	Green	Green Diffused	565	2.1	25	30	60	67-1298-ND◆†	1.28	1.04	.72	SSF-LXH4RA5LGD
11	3mm	Red/Green	White Diffused	700/565	2.1	25	3/4	60	67-1302-ND◆	1.84	1.50	1.04	SSF-LXH4RAHGW
	3mm	Red	Red Diffused	660	1.7	30	80	60	67-1306-ND◆	1.84	1.50	1.04	SSF-LXH4RASRD
	3mm	Red	Red Diffused	635	2.1	30	40	60	67-1303-ND◆	1.28	1.04	.72	SSF-LXH4RAID
	3mm	Red (blinking)	Red Diffused	635	3.5	20	6	60	67-1307-ND◆	3.08	2.73	1.76	SSF-LXH4RABID
	3mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1305-ND◆	1.28	1.04	.72	SSF-LXH4RAYD
	3mm	Green	Green Diffused	565	2.1	25	30	60	67-1304-ND◆	1.28	1.04	.72	SSF-LXH4RAGD
12	5.0 x 1.63mm	Red	Red Diffused	660	1.7	30	80	110	67-1265-ND	1.82	1.62	1.04	SSF-LXH22573SRSRD
	5.0 x 1.63mm	Red	Red Diffused	635	2.0	30	10	110	67-1262-ND◆	1.52	1.24	.86	SSF-LXH22573IID
	5.0 x 1.63mm	Yellow	Yellow Diffused	585	2.1	30	10	110	67-1264-ND◆	1.52	1.24	.86	SSF-LXH22573YYD

◆ ***RoHS Compliant*** † Low Current Version, Lights at 2mA

(Continued)

Fig. 11

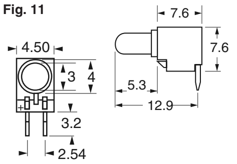

Fig. 12

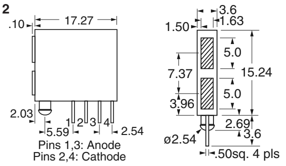

Fig. 13

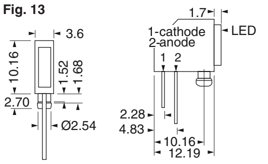

Fig. 14

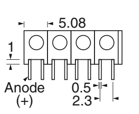

Fig. 15

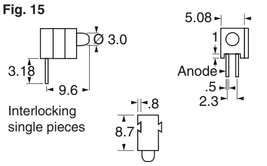

Fig. 16

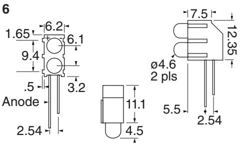

Fig. 17

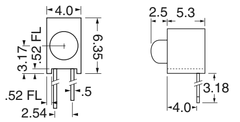

Fig. 18

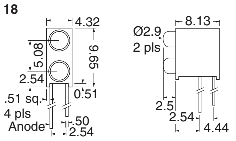

Fig. 19

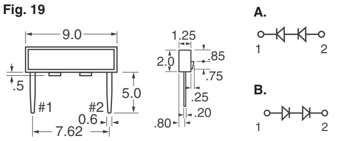

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
12	5.0 x 1.63mm	Green	Green Diffused	565	2.2	25	10	110	67-1263-ND◆	1.52	1.24	.86	SSF-LXH22573GGD
	5.0 x 1.63mm	Green	Green Diffused	565	2.2	25	10	110	67-1267-ND†	1.92	1.56	1.08	SSF-LXH22573LGGD
13	2.5 x 7mm	Red/Green	White Diffused	695/565	2.0/2.2	25	2/9	110	67-1268-ND◆	1.24	1.01	.70	SSF-LXH25780HGW
	2.5 x 7mm	Red	Red Diffused	660	1.7	30	50	110	67-1272-ND	1.24	1.01	.70	SSF-LXH25780SRD
	2.5 x 7mm	Red	Red Diffused	635	2.0	30	15	110	67-1269-ND◆	.95	.74	.53	SSF-LXH25780ID
	2.5 x 7mm	Yellow	Yellow Diffused	585	2.1	30	9	110	67-1271-ND	.95	.74	.53	SSF-LXH25780YD
	2.5 x 7mm	Green	Green Diffused	565	2.2	25	9	110	67-1270-ND◆	.95	.74	.53	SSF-LXH25780GD
14	3mm	Red	Red Diffused	635	2.0	30	40	60	67-2055-ND◆	2.38	2.11	1.36	SSF-LXH2300ID-4
15	3mm	Red	Red Diffused	635	2.0	25	50	60	67-1277-ND◆†	1.08	.84	.60	SSF-LXH2300LID-LM
	3mm	Red	Red Diffused	635	5.0	12	30	60	67-1279-ND◆	1.04	.85	.59	SSF-LXH2300ID-5V-LM
	3mm	Red	Red Diffused	635	2.0	30	50	60	67-1273-ND◆	.81	.63	.45	SSF-LXH2300ID-LM
	3mm	Sup. Red	Red Diffused	660	1.8	30	100	60	67-1276-ND	1.04	.85	.59	SSF-LXH2300SRD
	3mm	Yellow	Yellow Diffused	585	2.1	30	50	60	67-1275-ND◆	.81	.63	.45	SSF-LXH2300YD-LM
	3mm	Green	Green Diffused	565	2.2	25	50	60	67-1274-ND◆	.81	.63	.45	SSF-LXH2300GD-LM
	3mm	Green	Green Diffused	565	5.0	12	30	60	67-1280-ND	1.04	.85	.59	SSF-LXH2300GD-5V-LM
	3mm	Green	Green Diffused	565	2.2	25	50	60	67-1278-ND◆†	1.08	.84	.60	SSF-LXH2300LGD-LM
16	5mm	Red/Green	White Diffused	635/565	2.0/2.2	30/25	30/25	60	67-1281-ND◆	1.89	1.68	1.08	SSF-LXHM250IGIGW
	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1282-ND◆	1.28	1.04	.72	SSF-LXHM250IID
	5mm	Green	Green Diffused	565	2.2	25	30	60	67-1283-ND◆	1.28	1.04	.72	SSF-LXHM250GGD
17	3mm	Red	Red Diffused	635	2.1	30	40	60	67-1320-ND◆	1.12	.91	.63	SSF-LXH303ID
18	3mm	Red	Red Diffused	635	2.0	30	40	60	67-1319-ND◆	1.60	1.30	.90	SSF-LXH240IID
	3mm	Green	Green Diffused	565	2.2	25	40	60	67-1321-ND◆	1.60	1.30	.90	SSF-LXH240GGD
19A	9.0 x 2.0mm	Red	Red Transparent	660	3.6	30	50	160	67-1326-ND◆	1.44	1.17	.81	SSB-LX02SRC
19B	9.0 x 2.0mm	Red	Red Transparent	635	4.5	30	16	160	67-1323-ND◆	1.16	.95	.66	SSB-LX02IC
	9.0 x 2.0mm	Yellow	Yellow Transparent	590	4.5	30	10	160	67-1325-ND	1.16	.95	.66	SSB-LX02YC
	9.0 x 2.0mm	Green	Green Transparent	565	4.4	25	10	160	67-1324-ND◆	1.16	.95	.66	SSB-LX02GC

◆ ***RoHS Compliant*** † Low Current Version, Lights at 2mA

Light Pipes

Fig. 1

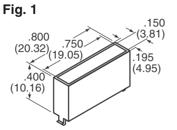

Fig. 2

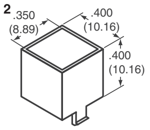

Fig. 3

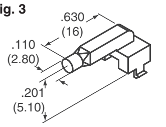

Fig. 4

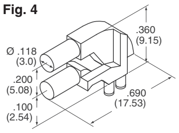

Fig. 5

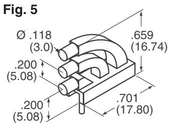

Fig. 6 ***NEW!***

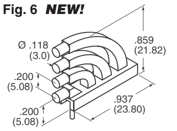

Fig. 7

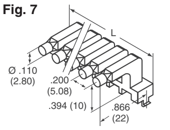

Fig. 8

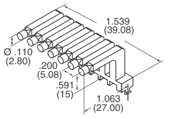

Fig. 9

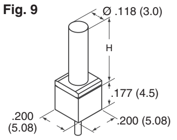

Fig. 10

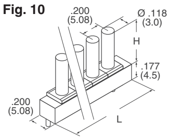

Fig. 11

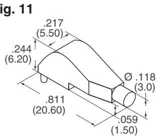

Fig. 12

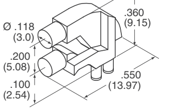

Fig. 13

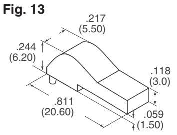

Fig. 14

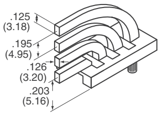

Fig.	Recommended LED Series	No. of Positions	Dim. - Inch (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	SML-LX2832	—	—	—	67-1844-ND	2.76	2.45	1.58	LPB-R0112051S
2	SML-LX2832	—	—	—	67-1845-ND	2.79	2.47	1.60	LPB-S01110101S
3	SML-LX1206 SML-LX1210	— —	— —	— —	67-1847-ND	1.34	1.09	.76	LPF-C011304S
4	SML-LX23	—	—	—	67-1850-ND	1.30	1.06	.73	LPF-C012303S
5	SML-LX23	—	—	—	67-1851-ND	1.83	1.63	1.05	LPF-C013301S
6	SML-LX23	—	—	—	67-1852-ND✔	1.95	1.73	1.12	LPF-C014301S
7	SML-LX1206 or SML-LX1210	2	—	.540 (13.72)	67-1853-ND	2.38	2.11	1.36	LPF-C021303S
		3	—	.740 (18.80)	67-1854-ND	3.43	3.04	1.96	LPF-C031303S
		4	—	.939 (23.84)	67-1855-ND	3.93	3.28	2.36	LPF-C041303S
		5	—	1.139 (28.92)	67-1856-ND	4.87	4.06	2.93	LPF-C051303S
8		—	—	—	67-1857-ND	5.40	4.51	3.25	LPF-C071303S

Fig.	Recommended LED Series	No. of Positions	Dim. - Inch (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
9	SML-LX0805xx	—	.394 (10)	—	67-1833-ND	1.83	1.49	1.04	LPA-C011301S-10
	SML-LX0805xx	—	.787 (20)	—	67-1834-ND	1.76	1.43	.99	LPA-C011301S-20
	SML-LX0805xx	—	1.97 (50)	—	67-1835-ND	1.82	1.48	1.03	LPA-C011301S-50
10	SML-LX0805xx	4	.394 (10)	1.000 (25.40)	67-1836-ND	3.55	2.96	2.13	LPA-C041301S-10
	SML-LX0805xx	4	.787 (20)	1.000 (25.40)	67-1837-ND	3.41	2.84	2.05	LPA-C041301S-20
	SML-LX0805xx	8	.394 (10)	1.800 (45.72)	67-1839-ND	6.93	6.28	4.19	LPA-C081301S-10
11	SML-LX1206xx	—	—	—	67-1846-ND	1.15	.94	.65	LPF-C011302S
12	SML-LX23	—	—	—	67-1849-ND	1.85	1.51	1.04	LPF-C012301S
13	SML-LX1206xx	—	—	—	67-1858-ND	1.15	.94	.65	LPF-R011362S
14	SML-LX1210xx	—	—	—	67-1860-ND	.54	.39	.26	LPF-S014331S

✔ ***NEW!***

Flexible Light Pipes

Recommended LED: SSL-LX3054XX

Lens Color	Digi-Key Part No.	Price Each 1	10	100	250	Lumex Part No.
Clear	67-1862-ND	5.64	4.70	3.39	3.01	LPI-C0117001S-150C
Green	67-1863-ND	5.64	4.70	3.39	3.01	LPI-C0117001S-150G

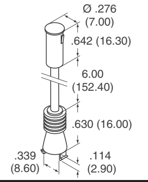

Surface Mount LEDs

Dimensions in mm

Fig. 1 — SOT-23 Footprint

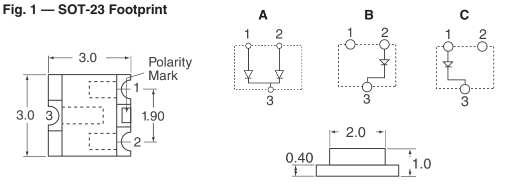

Fig. 2 — 0603

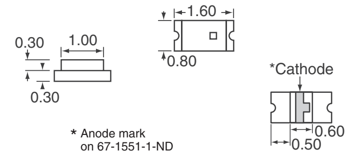

Fig. 3 — 0805

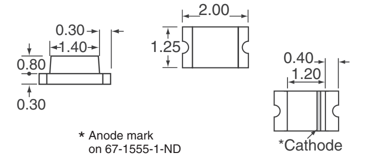

Fig. 4 — 4PLCC

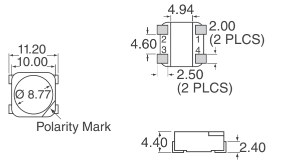

Fig. 5 — 1206

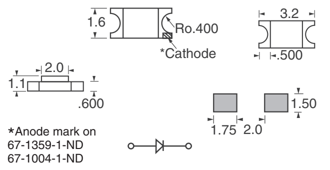

Fig. 6 — 1209

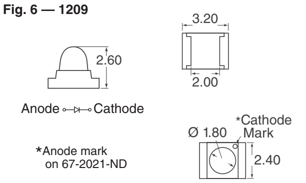

Fig. 7 — 1210

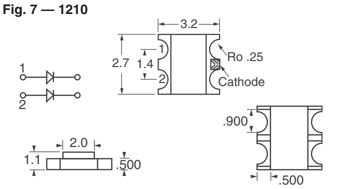

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
1A	SOT-23	Red/Green	Water Clear	635/565	2.0/2.1	30/25	10	140	67-1655-1-ND◆	1.04	.80	.57	67-1655-2-ND◆	3,000	290.00/M	SML-LX15IGC-RP-TR
	SOT-23	Yellow/Green	Water Clear	585/565	2.1/2.2	30/25	10	140	67-1674-1-ND	1.04	.80	.57	67-1674-2-ND	3,000	290.00/M	SML-LX15YGC-RP-TR
1B	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1660-1-ND◆	.79	.61	.44	67-1660-2-ND◆	3,000	212.00/M	SML-LX15SRC-TR
	SOT-23	Red	Water Clear	635	2.0	30	10	140	67-1684-1-ND◆	.73	.57	.41	67-1684-2-ND◆	3,000	197.00/M	SML-LX15IC-TR
	SOT-23	Super Yellow	Water Clear	590	2.1	30	60	140	67-1664-1-ND◆	.81	.63	.45	67-1664-2-ND◆	3,000	218.00/M	SML-LX15SYC-TR
	SOT-23	Super Ultra Green	Water Clear	574	2.2	25	45	140	67-1662-1-ND◆	.81	.63	.45	67-1662-2-ND◆	3,000	218.00/M	SML-LX15SUGC-TR
	SOT-23	Green	Water Clear	565	2.2	25	10	140	67-1685-1-ND◆	.73	.57	.41	67-1685-2-ND◆	3,000	197.00/M	SML-LX15GC-TR
	SOT-23	Ultra Super Blue	Water Clear	470	3.5	30	120	140	67-1668-1-ND	2.98	2.67	1.73	67-1668-2-ND	3,000	1018.00/M	SML-LX15USBC-TR
1C	SOT-23	Green	Water Clear	565	2.2	25	10	140	67-1656-1-ND◆	.73	.57	.41	67-1656-2-ND◆	3,000	197.00/M	SML-LX15GC-RP-TR
	SOT-23	Ultra Super Blue	Water Clear	470	3.5	30	120	140	67-1669-1-ND	2.98	2.67	1.73	67-1669-2-ND	3,000	1018.00/M	SML-LX15USBC-RP-TR
2	0603	Super Red	White Diffused	660	1.8	30	45	140	67-1551-1-ND◆	.48	.34	.22	67-1551-2-ND◆	4,000	90.00/M	SML-LX0603SRW-TR
	0603	Red	White Diffused	635	2.0	30	14	160	67-1548-1-ND◆	.48	.34	.22	67-1548-2-ND◆	4,000	90.00/M	SML-LX0603IW-TR
	0603	Yellow	White Diffused	585	2.1	30	14	160	67-1550-1-ND◆	.48	.34	.22	67-1550-2-ND◆	4,000	90.00/M	SML-LX0603YW-TR
	0603	Green	White Diffused	565	2.2	25	18	160	67-1549-1-ND◆	.43	.31	.20	67-1549-2-ND◆	4,000	81.00/M	SML-LX0603GW-TR
3	0805	Super Red	White Diffused	660	1.8	30	21	140	67-1555-1-ND◆	.48	.34	.22	67-1555-2-ND◆	4,000	90.00/M	SML-LXT0805SRW-TR
	0805	Red	White Diffused	635	2.0	30	11	140	67-1552-1-ND◆	.45	.32	.21	67-1552-2-ND◆	4,000	85.00/M	SML-LXT0805IW-TR
	0805	Yellow	White Diffused	585	2.1	30	10	140	67-1554-1-ND◆	.45	.32	.21	67-1554-2-ND◆	4,000	85.00/M	SML-LXT0805YW-TR
	0805	Super Ultra Green	Water Clear	574	2.2	30	40	140	67-1687-1-ND◆	1.13	.87	.62	67-1687-2-ND◆	3,000	315.00/M	SML-LX0805SUGC-TR
	0805	Green	White Diffused	565	2.0	30	11	140	67-1553-1-ND◆	.43	.31	.20	67-1553-2-ND◆	4,000	81.00/M	SML-LXT0805GW-TR
4	4-PLCC	Super Orange	Water Clear	620	2.0	500	25,000	90	67-2010-1-ND◆	6.44	5.37	3.91	67-2010-2-ND◆	500	1415.00	SML-LX1110SOC-ATR
	4-PLCC	Super Orange	Water Clear	620	2.0	500	20,000	120	67-2011-1-ND◆	6.44	5.37	3.91	67-2011-2-ND◆	500	1415.00	SML-LX1110SOC-BTR
	4-PLCC	Super Yellow	Water Clear	590	2.0	500	19,000	90	67-2012-1-ND◆	6.44	5.37	3.91	67-2012-2-ND◆	500	1415.00	SML-LX1110SYC-ATR
	4-PLCC	Super Yellow	Water Clear	590	2.0	500	8,500	120	67-2013-1-ND◆	6.44	5.37	3.91	67-2013-2-ND◆	500	1415.00	SML-LX1110SYC-BTR
	4-PLCC	Ultra Pure Green	Water Clear	525	3.5	500	10,000	90	67-2014-1-ND◆	21.01	20.20	13.34	67-2014-2-ND◆	500	5454.00	SML-LX1110UPGC-ATR
	4-PLCC	Ultra Super Green	Water Clear	525	3.5	500	7,500	120	67-2015-1-ND◆	21.01	20.20	13.34	67-2015-2-ND◆	500	5454.00	SML-LX1110UPGC-BTR
	4-PLCC	Ultra Super Blue	Water Clear	470	3.5	500	2,800	90	67-2016-1-ND◆	18.00	17.31	11.43	67-2016-2-ND◆	500	4673.50	SML-LX1110USBC-ATR
	4-PLCC	Ultra Super Blue	Water Clear	470	3.5	500	250	120	67-2017-1-ND◆	18.00	17.31	11.43	67-2017-2-ND◆	500	4673.50	SML-LX1110USBC-BTR
5	1206	Super Red	Water Clear	660	1.7	30	25	160	67-1359-1-ND◆	.44	.31	.21	67-1359-2-ND◆	3,000	83.00/M	SML-LX1206SRC-TR
	1206	Super Red	White Diffused	660	1.8	30	15	160	67-1004-1-ND◆	.50	.39	.26	67-1004-2-ND◆	3,000	119.00/M	SML-LX1206SRW-TR
	1206	Red	Water Clear	635	2.0	25	6	160	67-1356-1-ND◆	.43	.31	.20	67-1356-2-ND◆	3,000	81.00/M	SML-LX1206IC-TR
	1206	Red	White Diffused	635	2.0	25	6	160	67-1003-1-ND◆	.50	.39	.25	67-1003-2-ND◆	3,000	117.00/M	SML-LX1206IW-TR
	1206	Yellow	Water Clear	585	2.1	25	6	160	67-1358-1-ND◆	.43	.31	.20	67-1358-2-ND◆	3,000	81.00/M	SML-LX1206YC-TR
	1206	Green	Water Clear	565	2.2	25	10	160	67-1357-1-ND◆	.50	.36	.22	67-1357-2-ND◆	3,000	80.00/M	SML-LX1206GC-TR
	1206	Green	White Diffused	565	2.2	25	10	160	67-1002-1-ND◆	.48	.37	.24	67-1002-2-ND◆	3,000	112.00/M	SML-LX1206GW-TR
6	1209/3.2 x 2.4mm	Super Intensity Red	Water Clear	636	2.0	160	600	30	67-2020-1-ND◆	.56	.44	.28	67-2020-2-ND◆	1,000	144.00	SML-LXL1209SIC-TR
	1209/3.2 x 2.4mm	Orange	Water Clear	610	2.0	160	1,500	50	67-2021-1-ND◆	.56	.44	.28	67-2021-2-ND◆	1,000	144.00	SML-LXL1209SOC-TR
	1209/3.2 x 2.4mm	Super Yellow	Water Clear	590	2.0	160	400	50	67-2022-1-ND◆	.56	.44	.28	67-2022-2-ND◆	1,000	144.00	SML-LXL1209SYC-TR
	1209/3.2 x 2.4mm	Super Ultra Green	Water Clear	574	2.2	160	170	30	67-2018-1-ND◆	.59	.46	.33	67-2018-2-ND◆	1,000	176.00	SML-LXL1209SUGC-TR
	1209/3.2 x 2.4mm	Ultra Pure Green	Water Clear	525	3.5	100	1,000	30	67-2019-1-ND◆	2.02	1.81	1.18	67-2019-2-ND◆	1,000	732.00	SML-LXL1209UPGC-TR
	1209/3.2 x 2.4mm	Ultra Super Blue	Water Clear	470	3.5	100	250	50	67-2023-1-ND◆	2.02	1.81	1.18	67-2023-2-ND◆	1,000	732.00	SML-LXL1209USBC-TR
7	1210	Sup. Red/Sup. Red	Water Clear	660	1.7	30	15	160	67-1360-1-ND◆	.80	.62	.44	67-1360-2-ND◆	3,000	224.00/M	SML-LX1210SRSRC-TR
	1210	Red/Green	Water Clear	635/565	2.0/2.2	25	10	160	67-1361-1-ND◆	.60	.46	.30	67-1361-2-ND◆	3,000	140.00/M	SML-LX1210IGC-TR
	1210	Yellow/Green	Water Clear	585/565	2.1/2.2	25	10	160	67-1363-1-ND◆	.60	.46	.30	67-1363-2-ND◆	3,000	140.00/M	SML-LX1210YGC-TR
	1210	Green/Green	Water Clear	565/565	2.2	25	10	160	67-1362-1-ND	.60	.46	.30	67-1362-2-ND	3,000	140.00/M	SML-LX1210GGC-TR
8	3.2 x 2.8mm	Super Red	Water Clear	660	1.7	30	100	120	67-1366-1-ND◆	1.00	.77	.55	67-1366-2-ND◆	2,000	280.00/M	SML-LX2832SRC-TR
	3.2 x 2.8mm	Red	Water Clear	635	2.0	30	25	120	67-1364-1-ND◆	.80	.62	.44	67-1364-2-ND◆	2,000	224.00/M	SML-LX2832IC-TR
	3.2 x 2.8mm	Yellow	Water Clear	585	2.1	30	15	120	67-1367-1-ND	.80	.62	.44	67-1367-2-ND	2,000	224.00/M	SML-LX2832YC-TR
	3.2 x 2.8mm	Green	Water Clear	565	2.1	25	25	120	67-1365-1-ND◆	.80	.62	.44	67-1365-2-ND◆	2,000	224.00/M	SML-LX2832GC-TR
9	3.0 x 2.2mm	Super Red	Water Clear	650	1.7	25	30	130	67-1371-1-ND‡	1.00	.77	.55	67-1371-2-ND‡	2,000	280.00/M	SSL-LXA1725SRC-TR
	3.0 x 2.2mm	Red	Water Clear	635	2.0	30	12	130	67-1368-1-ND◆	.75	.58	.42	67-1368-2-ND◆	2,000	210.00/M	SSL-LXA1725IC-TR
	3.0 x 2.2mm	Yellow	Water Clear	585	2.1	30	12	130	67-1370-1-ND	.75	.58	.42	67-1370-2-ND	2,000	210.00/M	SSL-LXA1725YC-TR
	3.0 x 2.2mm	Green	Water Clear	565	2.2	25	25	130	67-1369-1-ND◆	.75	.58	.42	67-1369-2-ND◆	2,000	210.00/M	SSL-LXA1725GC-TR
10	3.4 x 2.8mm	Red/Green	Water Clear	635/565	2.0/2.2	30/25	12/20	130	67-1372-1-ND◆	1.22	.98	.68	67-1372-2-ND◆	1,000	378.00	SSL-LXA3025IGC-TR
	3.4 x 2.8mm	Yellow/Green	Water Clear	585/565	2.1/2.2	30/25	12	130	67-1373-1-ND	1.22	.98	.68	67-1373-2-ND	1,000	378.00	SSL-LXA3025YGC-TR
11	1.27 x 3.2mm	Red	Red Trans.	635	2.1	30	7.2	180	67-1352-1-ND◆	1.59	1.28	.89	67-1352-2-ND◆	3,000	469.00/M	CCL-LX45IT
	1.27 x 3.2mm	Yellow	Yellow Trans.	585	2.3	30	7	180	67-1354-1-ND	1.64	1.32	.92	67-1354-2-ND	3,000	485.00/M	CCL-LX45YT
	1.27 x 3.2mm	Green	Green Trans.	565	2.2	30	7	180	67-1353-1-ND◆	1.64	1.32	.92	67-1353-2-ND◆	3,000	485.00/M	CCL-LX45GT
12	3.2 x 1.0mm	Red	Water Clear	635	2.0	25	12	130	67-1556-1-ND◆	.60	.46	.30	67-1556-2-ND◆	3,000	140.00/M	SML-LXR85IC-TR
	3.2 x 1.0mm	Yellow	Water Clear	585	2.1	25	10	130	67-1558-1-ND	.55	.43	.28	67-1558-2-ND	3,000	130.00/M	SML-LXR85YC-TR
	3.2 x 1.0mm	Green	Water Clear	565	2.2	25	12	130	67-1557-1-ND◆	.53	.41	.27	67-1557-2-ND◆	3,000	125.00/M	SML-LXR85GC-TR

◆ ***RoHS Compliant*** * Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity § See Data Sheet for Polarity Marking

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 8

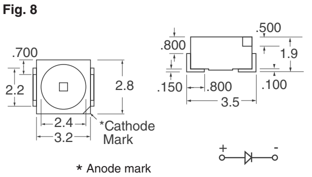

* Anode mark on 67-1366-ND

Fig. 9

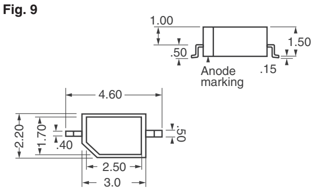

Fig. 10

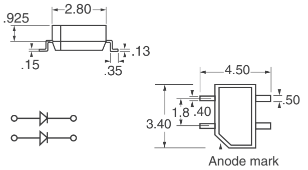

Fig. 11

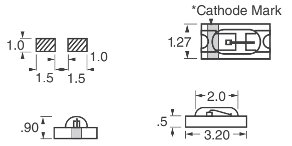

*Anode mark on 67-1355-ND

Fig. 12

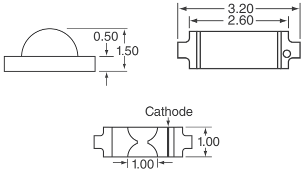

Fig. 13

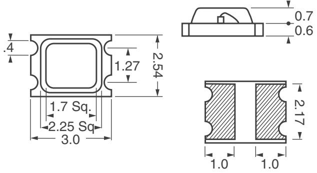

Fig. 14

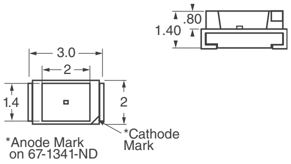

Fig. 15 — Gull Wing

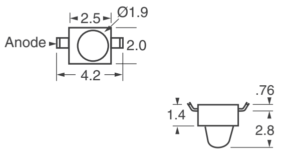

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
13	3.0 x 2.54mm	Super Red	Water Clear	660	1.7	15	40	180	67-1345-1-ND	1.17	.94	.65	67-1345-2-ND	3,000	346.00/M	CCL-CRS10SR
	3.0 x 2.54mm	Red	Water Clear	635	2.0	25	12	180	67-1342-1-ND◆	.88	.68	.49	67-1342-2-ND◆	3,000	245.00/M	CCL-CRS10R
	3.0 x 2.54mm	Yellow	Water Clear	585	2.1	30	8	180	67-1344-1-ND	.88	.68	.49	67-1344-2-ND	3,000	245.00/M	CCL-CRS10Y
	3.0 x 2.54mm	Green	Water Clear	565	2.2	25	12	180	67-1343-1-ND◆	.88	.68	.49	67-1343-2-ND◆	3,000	245.00/M	CCL-CRS10G
14	3.0 x 2.0mm	Super Red	Water Clear	660	1.7	30	100	90	67-1341-1-ND◆	.67	.52	.38	67-1341-2-ND◆	2,000	180.00/M	SML-LX23SRC-TR
	3.0 x 2.0mm	Red	Water Clear	635	2.0	30	20	90	67-1338-1-ND◆	.63	.49	.32	67-1338-2-ND◆	2,000	149.00/M	SML-LX23IC-TR
	3.0 x 2.0mm	Yellow	Water Clear	585	2.1	30	20	90	67-1340-1-ND◆	.63	.49	.32	67-1340-2-ND◆	2,000	149.00/M	SML-LX23YC-TR
	3.0 x 2.0mm	Green	Water Clear	565	2.1	25	20	90	67-1339-1-ND◆	.63	.49	.32	67-1339-2-ND◆	2,000	149.00/M	SML-LX23GC-TR
15	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1393-1-ND◆‡	.98	.76	.54	67-1393-2-ND◆‡	1,000	293.00	SSL-LXA228SRC-TR11
	2.0 x 2.5mm	Red	Water Clear	635	2.0	30	80	25	67-1384-1-ND◆	.66	.51	.37	67-1384-2-ND◆	1,000	196.00	SSL-LXA228IC-TR11
	2.0 x 2.5mm	Yellow	Yellow Diffused	585	2.1	30	15	50	67-1145-1-ND◆	.67	.52	.37	67-1145-2-ND◆	1,000	198.00	SSL-LXA228YD-TR11
	2.0 x 2.5mm	Yellow	Water Clear	585	2.1	30	30	25	67-1386-1-ND◆	.66	.51	.37	67-1386-2-ND◆	1,000	196.00	SSL-LXA228YC-TR11
	2.0 x 2.5mm	Green	Green Diffused	565	2.1	25	4	50	67-1141-1-ND◆	.54	.42	.30	—	—	—	SSL-LXA228GD-TR11
	2.0 x 2.5mm	Green	Water Clear	565	2.2	25	30	25	67-1385-1-ND◆	.66	.51	.37	67-1385-2-ND◆	1,000	196.00	SSL-LXA228GC-TR11
16	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1394-1-ND‡	.98	.76	.54	67-1394-2-ND‡	1,000	293.00	SSL-LXA228SRC-TR21
	2.0 x 2.5mm	Red	Red Diffused	635	2.0	30	12	50	67-1143-1-ND◆	.70	.54	.39	67-1143-2-ND◆	1,000	208.00	SSL-LXA228ID-TR21
	2.0 x 2.5mm	Red	Red Diffused	635	2.0	30	12	50	67-1144-1-ND*	.59	.46	.33	—	—	—	SSL-LXA228LID-TR21
	2.0 x 2.5mm	Red	Water Clear	635	2.0	30	60	25	67-1387-1-ND◆	.66	.51	.37	67-1387-2-ND◆	1,000	196.00	SSL-LXA228IC-TR21
	2.0 x 2.5mm	Yellow	Yellow Diffused	585	2.0	20	12	50	67-1146-1-ND	.67	.52	.37	67-1146-2-ND	1,000	198.00	SSL-LXA228YD-TR21
	2.0 x 2.5mm	Yellow	Water Clear	585	2.0	20	30	25	67-1389-1-ND◆	.66	.51	.37	67-1389-2-ND◆	1,000	196.00	SSL-LXA228YC-TR21
	2.0 x 2.5mm	Green	Green Diffused	565	2.1	30	4	50	67-1142-1-ND	.70	.54	.39	67-1142-2-ND	1,000	208.00	SSL-LXA228GD-TR21
	2.0 x 2.5mm	Green	Water Clear	565	2.1	30	30	25	67-1388-1-ND◆	.66	.51	.37	67-1388-2-ND◆	1,000	196.00	SSL-LXA228GC-TR21
17	2.0 x 2.5mm	Super Red	Water Clear	690	1.7	25	600	25	67-1395-1-ND◆‡	.98	.76	.54	67-1395-2-ND◆‡	1,000	293.00	SSL-LXA228SRC-TR31
	2.0 x 2.5mm	Red	Water Clear	635	2.0	30	60	25	67-1390-1-ND◆	.66	.51	.37	67-1390-2-ND◆	1,000	196.00	SSL-LXA228IC-TR31
	2.0 x 2.5mm	Yellow	Water Clear	585	2.0	20	30	25	67-1392-1-ND◆	.66	.51	.37	67-1392-2-ND◆	1,000	196.00	SSL-LXA228YC-TR31
	2.0 x 2.5mm	Green	Water Clear	565	2.1	30	30	25	67-1391-1-ND◆	.66	.51	.37	67-1391-2-ND◆	1,000	196.00	SSL-LXA228GC-TR31
18	T-1 (3mm) RA	Super Red	Red Diffused	660	1.7	30	80	60	67-1377-1-ND◆	1.13	.90	.63	67-1377-2-ND◆	1,000	350.00	SSF-LXH305SRD-TR
	T-1 (3mm) RA	Red	Red Diffused	635	2.0	30	40	60	67-1374-1-ND◆	.95	.74	.53	67-1374-2-ND◆	1,000	285.00	SSF-LXH305ID-TR
	T-1 (3mm) RA	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1376-1-ND◆	.95	.74	.53	67-1376-2-ND◆	1,000	285.00	SSF-LXH305YD-TR
	T-1 (3mm) RA	Green	Green Diffused	565	2.2	25	30	60	67-1375-1-ND◆	.95	.74	.53	67-1375-2-ND◆	1,000	285.00	SSF-LXH305GD-TR
19	RA	Super Red	Water Clear	636	2.0	30	60	110	67-1634-1-ND◆	.71	.55	.40	67-1634-2-ND◆	500	136.53	SMF-2432SIC-TR
	RA	Super Yellow	Water Clear	590	2.1	30	170	110	67-1630-1-ND◆	.72	.55	.40	67-1630-2-ND◆	500	137.60	SMF-2432SYC-TR
	RA	Yellow	Water Clear	585	2.0	30	14	110	67-1632-1-ND	.61	.47	.31	67-1632-2-ND	500	100.05	SMF-2432YC-TR
	RA	Green	Water Clear	565	2.2	25	14	110	67-1631-1-ND◆	.60	.47	.31	67-1631-2-ND◆	500	98.90	SMF-2432GC-TR
	RA	Ultra Green	Water Clear	525	3.5	30	160	110	67-1635-1-ND◆	4.32	3.60	2.62	—	—	—	SMF-2432UPGC-TR
	RA	Super Blue	Water Clear	470	3.5	30	140	110	67-1832-1-ND◆	3.15	2.83	1.83	67-1832-2-ND◆	500	664.00	SMF-2432USBC-TR
20	T-1 (3mm) RA	Super Red	Red Diffused	660	1.7	30	80	60	67-1644-ND†	.90	.71	.51	—	—	—	SMF-HM1530SRD-305
	T-1 (3mm) RA	Red	Red Diffused	635	2.0	30	30	60	67-1641-ND†◆	.79	.62	.44	—	—	—	SMF-HM1530ID-305
	T-1 (3mm) RA	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1642-ND†	.79	.62	.44	—	—	—	SMF-HM1530YD-305
	T-1 (3mm) RA	Green	Green Diffused	565	2.2	25	30	60	67-1643-ND†	.79	.62	.44	—	—	—	SMF-HM1530GD-305
21	T-1 3/4 (5mm) RA	Super Red	Red Diffused	660	1.7	30	100	60	67-1622-ND†	.90	.71	.51	—	—	—	SMF-HM1530SRD-509
	T-1 3/4 (5mm) RA	Red	Red Diffused	635	2.0	25	30	60	67-1645-ND†	.79	.62	.44	—	—	—	SMF-HM1530ID-509
	T-1 3/4 (5mm) RA	Yellow	Yellow Diffused	585	2.1	25	30	60	67-1620-ND†	.79	.62	.44	—	—	—	SMF-HM1530YD-509
	T-1 3/4 (5mm) RA	Green	Green Diffused	565	2.2	25	30	60	67-1621-ND†	.79	.62	.44	—	—	—	SMF-HM1530GD-509
22	3.6 x 4.0mm RA	Super Red	Water Clear	660	1.7	30	80	90	67-1827-1-ND◆‡	.86	.66	.48	67-1827-2-ND◆‡	500	162.45	SML-LXR44SRC-TR
	3.6 x 4.0mm RA	Super Red	Water Clear	636	2.0	30	170	90	67-2029-1-ND◆	1.13	.87	.62	67-2029-2-ND◆	500	214.00	SML-LXR44SIC-TR
	3.6 x 4.0mm RA	Red	Water Clear	635	2.0	30	25	90	67-1826-1-ND◆	.74	.58	.42	67-1826-2-ND◆	500	142.98	SML-LXR44IC-TR
	3.6 x 4.0mm RA	Super Yellow	Water Clear	2.0	30	200	90	90	67-2031-1-ND◆	1.06	.82	.59	67-2031-2-ND◆	500	201.50	SML-LXR44SYC-TR
	3.6 x 4.0mm RA	Yellow	Water Clear	585	2.1	30	9	90	67-1828-1-ND◆	.74	.58	.42	67-1828-2-ND◆	500	142.98	SML-LXR44YC-TR
	3.6 x 4.0mm RA	Super Green	Water Clear	574	2.2	25	210	90	67-2030-1-ND◆	1.52	1.22	.85	67-2030-2-ND◆	500	286.50	SML-LXR44SUGC-TR
	3.6 x 4.0mm RA	Green	Water Clear	565	2.2	25	25	90	67-1825-1-ND◆	.74	.58	.42	67-1825-2-ND◆	500	142.98	SML-LXR44GC-TR
23	(5mm) SMD	Super Intensity Red	Water Clear	635	2.0	30	700	60	67-2065-1-ND◆	1.20	.96	.67	67-2065-2-ND◆	350	186.55	SML-H1505SIC-TR
	(5mm) SMD	Super Ultra Green	Water Clear	575	2.0	30	200	68	67-2067-1-ND◆	1.64	1.31	.91	67-2067-2-ND◆	350	254.80	SML-H1505SUGC-TR
	(5mm) SMD	Red	White Diffused	635	2.2	30	1,100	60	67-2073-1-ND◆§	2.36	2.12	1.37	67-2073-2-ND◆§	350	391.65	SML-H1505SIUGUBWTR
	(5mm) SMD	Blue	White Diffused	465	3.4	20	600	60								
	(5mm) SMD	Green	White Diffused	520	3.4	20	2,200	60								

◆ ***RoHS Compliant*** * Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity § See Data Sheet for Polarity Marking

(Continued)

Fig. 16 — Yoke Shaped

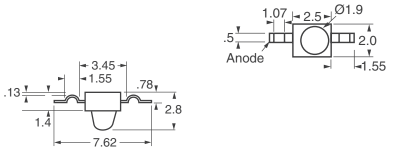

Fig. 17 — Z Bend

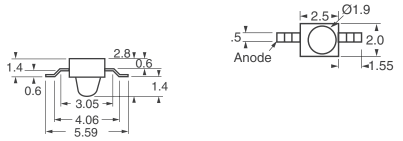

Fig. 18

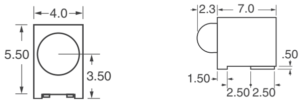

Fig. 19

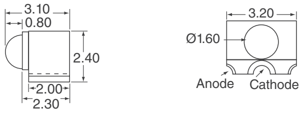

Fig. 20 — Interlocking, Re-Lampable

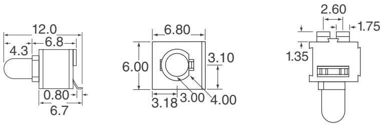

Fig. 21 — Interlocking, Re-Lampable

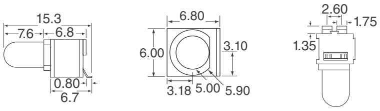

AlInGaP Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
2	0603	Super Intensity Red	White Diffused	636	2.0	30	60	140	67-1690-1-ND◆	.76	.59	.43	67-1690-2-ND◆	4,000	204.00/M	SML-LX0603SIW-TR
	0603	Super Orange	White Diffused	610	2.0	30	60	140	67-1691-1-ND◆	.76	.59	.43	67-1691-2-ND◆	4,000	204.00/M	SML-LX0603SOW-TR
	0603	Super Yellow	White Diffused	590	2.0	30	60	140	67-1694-1-ND◆	.82	.64	.46	67-1694-2-ND◆	4,000	230.00/M	SML-LX0603SYW-TR
	0603	Super Ultra Green	White Diffused	574	2.2	25	45	140	67-1693-1-ND◆	1.00	.77	.55	67-1693-2-ND◆	4,000	280.00/M	SML-LX0603SUGW-TR
3	0805	Super Red	Water Clear	636	2.0	30	60	140	67-1636-1-ND◆	.67	.52	.38	67-1636-2-ND◆	3,000	180.00/M	SML-LX0805SIC-TR
	0805	Super Orange	Water Clear	610	2.0	30	60	140	67-1637-1-ND◆	.67	.52	.38	67-1637-2-ND◆	3,000	180.00/M	SML-LX0805SOC-TR
	0805	Ultra Green	Water Clear	525	3.5	30	45	140	67-1640-1-ND◆	5.81	4.84	3.52	67-1640-2-ND◆	3,000	2200.00/M	SML-LX0805UPGC-TR
	0805	Super Blue	Water Clear	470	3.5	30	25	140	67-1638-1-ND◆	3.50	2.92	2.12	67-1638-2-ND◆	3,000	1325.00/M	SML-LX0805USBC-TR
5	1206	Super Intensity Red	Water Clear	636	2.0	30	70	140	67-1695-1-ND◆	.43	.33	.22	67-1695-2-ND◆	3,000	101.00/M	SML-LX1206SIC-TR
	1206	Super Orange	Water Clear	610	2.0	30	70	140	67-1696-1-ND◆	.68	.53	.38	67-1696-2-ND◆	3,000	183.00/M	SML-LX1206SOC-TR
	1206	Super Yellow	Water Clear	590	2.0	30	70	140	67-1699-1-ND◆	.82	.64	.46	67-1699-2-ND◆	3,000	230.00/M	SML-LX1206SYC-TR
	1206	Super Ultra Green	Water Clear	574	2.2	25	45	140	67-1698-1-ND◆	1.22	.98	.68	67-1698-2-ND◆	3,000	359.00/M	SML-LX1206SUGC-TR
7	1210	Red/Green	Water Clear	660/565	1.7/2.2	30/25	15/10	160	67-1703-1-ND◆	1.04	.80	.57	67-1703-2-ND◆	3,000	290.00/M	SML-LX1210SRSGC-TR
8	2832	Super Intensity Red	Water Clear	636	2.0	30	250	120	67-1705-1-ND◆	.90	.70	.50	67-1705-2-ND◆	2,000	252.00/M	SML-LX2832SIC-TR
	2832	Super Yellow	Water Clear	590	2.0	30	140	120	67-1708-1-ND◆	.91	.70	.50	67-1708-2-ND◆	2,000	253.00/M	SML-LX2832SYC-TR
	2832	Super Ultra Green	Water Clear	574	2.2	25	150	120	67-1707-1-ND◆	.91	.70	.50	67-1707-2-ND◆	2,000	253.00/M	SML-LX2832SUGC-TR
12	0.5 x 3.2mm	Red	Water Clear	636	2.0	25	70	160	67-1710-1-ND	.74	.57	.41	67-1710-2-ND	3,000	198.00/M	SML-LXR85SIC-TR
	0.5 x 3.2mm	Yellow	Water Clear	590	2.0	25	50	160	67-1714-1-ND◆	.92	.71	.51	67-1714-2-ND◆	3,000	258.00/M	SML-LXR85SYC-TR
	0.5 x 3.2mm	Green	Water Clear	574	2.2	25	45	160	67-1713-1-ND◆	.98	.76	.54	67-1713-2-ND◆	3,000	273.00/M	SML-LXR85SUGC-TR
14	2.0 x 3.0mm	Super Intensity Red	Water Clear	636	2.0	30	300	90	67-1722-1-ND◆	1.20	.93	.66	67-1722-2-ND◆	2,000	336.00/M	SML-LX23SIC-TR
	2.0 x 3.0mm	Super Yellow	Water Clear	590	2.0	30	200	90	67-1725-1-ND◆	1.20	.93	.66	67-1725-2-ND◆	2,000	336.00/M	SML-LX23SYC-TR
	2.0 x 3.0mm	Super Ultra Green	Water Clear	574	2.2	25	80	90	67-1724-1-ND◆	1.39	1.12	.78	67-1724-2-ND◆	2,000	411.00/M	SML-LX23SUGC-TR
15	2.0 x 2.5mm	Super Intensity Red	Water Clear	636	2.0	30	475	25	67-1727-1-ND◆	1.02	.79	.57	67-1727-2-ND◆	1,000	306.00	SSL-LXA228SIC-TR11
	2.0 x 2.5mm	Super Orange	Water Clear	610	2.0	30	700	25	67-1728-1-ND◆	1.02	.79	.57	67-1728-2-ND◆	1,000	306.00	SSL-LXA228SOC-TR11
	2.0 x 2.5mm	Super Yellow	Water Clear	590	2.0	30	300	25	67-1730-1-ND◆	.82	.64	.46	67-1730-2-ND◆	1,000	246.00	SSL-LXA228SYC-TR11
	2.0 x 2.5mm	Super Green	Water Clear	575	2.2	25	200	25	67-1729-1-ND◆	.71	.55	.40	67-1729-2-ND◆	1,000	210.00	SSL-LXA228SUGC-TR11
18	RA	Super Green	Green Diffused	565	2.2	30	150	60	67-1742-1-ND◆	1.35	1.09	.76	67-1742-2-ND◆	1,000	421.00	SSF-LXH305SGD-TR
24	0402	Red	Water Clear	636	2.0	30	140	120	67-1878-1-ND◆	.57	.44	.32	67-1878-2-ND◆	2,000	152.00/M	SML-LX0402SIC-TR
	0402	Orange	Water Clear	610	2.0	30	120	120	67-1879-1-ND◆	.66	.51	.33	67-1879-2-ND◆	2,000	155.00/M	SML-LX0402SOC-TR
	0402	Super Yellow	Water Clear	590	2.0	30	60	120	67-1880-1-ND◆	.57	.44	.32	67-1880-2-ND◆	2,000	152.00/M	SML-LX0402SYC-TR
	0402	Green	Water Clear	574	2.2	25	45	120	67-1881-1-ND◆	1.02	.79	.57	67-1881-2-ND◆	2,000	286.00/M	SML-LX0402SUGC-TR

◆ ***RoHS Compliant***

InGan Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
5	1206	Ultra White	Yellow Diffused	550	3.5	30	90	140	67-1866-1-ND◆	2.98	2.67	1.73	67-1866-2-ND◆	3,000	1021.00/M	SML-LX1206UWW-TR
	1206	Ultra Super Blue	Water Clear	470	3.5	25	25	140	67-1701-1-ND◆	2.33	2.09	1.36	67-1701-2-ND◆	3,000	798.00/M	SML-LX1206USBC-TR
8	2832	Ultra Super Blue	Water Clear	470	3.5	30	60	120	67-1709-1-ND◆	2.33	2.09	1.36	67-1709-2-ND◆	2,000	798.00/M	SML-LX2832USBC-TR
12	0.5 x 3.2mm	Blue	Water Clear	470	3.5	25	30	160	67-1716-1-ND	2.33	2.09	1.36	67-1716-2-ND	3,000	798.00/M	SML-LXR85USBC-TR
14	2.0 x 3.0mm	Ultra Super Blue	Water Clear	470	3.5	30	60	90	67-1726-1-ND	2.33	2.09	1.36	67-1726-2-ND	2,000	798.00/M	SML-LX23USBC-TR
15	2.0 x 2.5mm Gull Wing	Ultra Super Blue	Water Clear	470	3.5	30	250	25	67-1731-1-ND	2.33	2.09	1.36	67-1731-2-ND	1,000	844.00	SSL-LXA228USBC-TR11
18	T-1 RA	Ultra Super Blue	Blue Diffused	470	3.5	30	80	60	67-1746-1-ND◆	2.94	2.46	1.79	—	—	—	SSF-LXH305USBD-TR

◆ ***RoHS Compliant***

(Continued)

Fig. 22

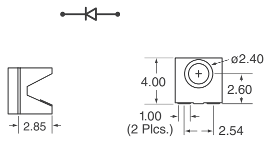

Fig. 23

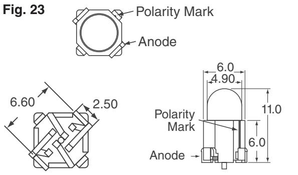

Fig. 24 — 0402

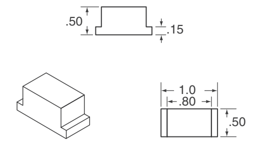

Fig. 25

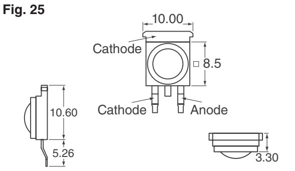

Fig. 26

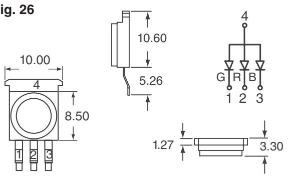

Fig. 27

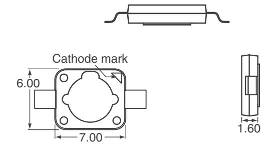

Fig. 28 ***NEW!***

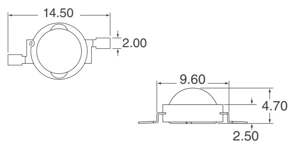

Fig. 29 ***NEW!***

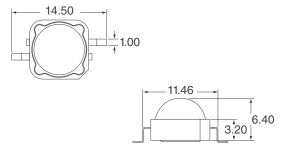

High Power 1 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
25	10.60 x 10mm	Red	Water Clear	625	2.1	350	22	70	67-2034-ND	4.32	3.60	2.60	SML-LX1610SIC
	10.60 x 10mm	Red	Water Clear	625	2.1	350	22	110	67-2035-ND	4.32	3.60	2.60	SML-LX1610SIC/A
	10.60 x 10mm	Yellow	Water Clear	590	2.1	350	22	70	67-2036-ND	4.32	3.60	2.60	SML-LX1610SYC
	10.60 x 10mm	Yellow	Water Clear	590	2.1	350	22	110	67-2037-ND	4.32	3.60	2.60	SML-LX1610SYC/A
	10.60 x 10mm	Green	Water Clear	525	4.0	350	25	70	67-2038-ND	6.68	6.05	4.04	SML-LX1610UPGC
	10.60 x 10mm	Green	Water Clear	525	4.0	350	25	110	67-2039-ND	6.68	6.05	4.04	SML-LX1610UPGC/A
	10.60 x 10mm	Blue	Water Clear	470	3.5	350	5	70	67-2040-ND	6.68	6.05	4.04	SML-LX1610USBC
	10.60 x 10mm	Blue	Water Clear	470	3.5	350	5	110	67-2041-ND	6.68	6.05	4.04	SML-LX1610USBC/A
	10.60 x 10mm	Ultra White	Water Clear	—	3.5	350	30	70	67-2042-ND	6.68	6.05	4.04	SML-LX1610UWC
	10.60 x 10mm	Ultra White	Water Clear	—	3.5	350	30	110	67-2043-ND	6.68	6.05	4.04	SML-LX1610UWC/A
26	10.60 x 10mm	Red/Green/Blue	White Diffused	636/525/470	2.0/3.5/3.5	350/500/500	25/25/8	110	67-2074-ND	10.34	9.36	6.24	SML-LX1610RGBW/A

High Power 1.5 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 250	Lumex Part No.
27	7.0 x 6.0mm	Ultra Blue	Clear	470	3.2	350	5	120	67-2048-1-ND	7.99	6.93	4.67	67-2048-2-ND	999.00	SML-LX2723USBC-TR

NEW! High Power 3 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Lumex Part No.
28	8mm Round Dome	Blue	Water Clear	454	4.6	700	20	100	67-2112-1-ND	8.10	7.47	6.75	67-2112-2-ND	2925.00	SML-LXL8047USBCTR3
	8mm Round Dome	Cool White	Water Clear	—	4.6	700	160	100	67-2113-1-ND	9.58	8.84	7.98	67-2113-2-ND	3458.00	SML-LXL8047UWCTR/3
	8mm Round Dome	Warm White	Water Clear	—	4.6	700	140	100	67-2114-1-ND	9.58	8.84	7.98	67-2114-2-ND	3458.00	SML-LXL8047MWCTR/3

NEW! High Power 5 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Lumex Part No.
29	7.7 Dia. Dome	Warm White	Water Clear	—	4.5	1200	220	100	67-2115-1-ND	21.47	19.81	17.90	67-2115-2-ND	7754.50	SML-LXL99MWC-TR/5
	7.7 Dia. Dome	Blue	Water Clear	465	4.5	1200	55	100	67-2116-1-ND	20.48	18.90	17.07	67-2116-2-ND	7397.00	SML-LXL99USBC-TR/5
	7.7 Dia. Dome	Cool White	Water Clear	—	4.5	1200	240	100	67-2117-1-ND	21.47	19.81	17.90	67-2117-2-ND	7754.50	SML-LXL99UWC-TR/5

SMT RGB (Red/Green/Blue) LEDs

Fig. 1

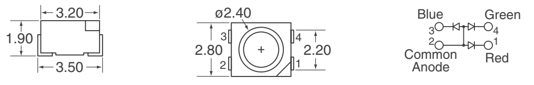

Fig. 2

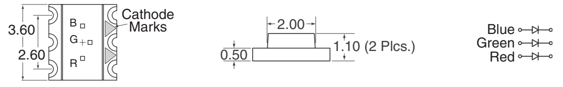

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Lumex Part No.
1	2.8 x 3.2mm	Red Green Blue	Water Clear	660 574 430	1.7 2.2 3.5	30 25 30	80 60 60	120	67-1820-1-ND	2.45	2.20	1.42	67-1820-2-ND	2,000	839.00/M	SML-LX2832SISUGSBC
2	3.2 x 3.6mm	Red Green Blue	Water Clear	636 574 430	2.0 2.2 3.5	25 25 30	75 60 50	120	67-1821-1-ND	2.45	2.20	1.42	67-1821-2-ND	1,000	887.00	SML-LX3632SISUGSBC

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

LUMEX
Creating LED and LCD Solutions Together™

LEDs

Fig. 1

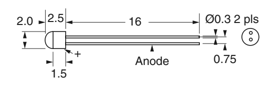

Fig. 2

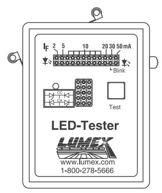

Fig. 3

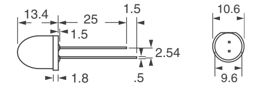

Fig. 4

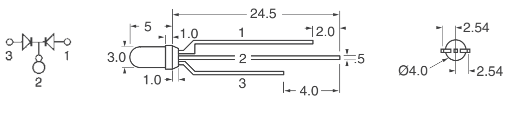

Fig.	LED Diameter (mm)	Emitted Color	Operating Current (mA)	Operating Type Volt (V)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
Ceramic Stem LEDs									
1	2	Orange/Red	20	2.0	67-1197-ND◆	1.36	1.11	.77	SSL-LX203CIT
	2	Green	20	2.2	67-1198-ND◆	1.36	1.11	.77	SSL-LX203CGT
	2	Yellow	20	2.1	67-1199-ND◆	1.36	1.11	.77	SSL-LX203CYT
	2	Red	20	1.7	67-1200-ND◆	1.68	1.37	.95	SSL-LX203CSRT
2	LED Tester Box				67-2033-ND	54.60	—	—	TRILED-TEST-BOX

Fig.	Emitted Color	Epoxy Lens Color	Typical mCD Intensity @ 20mA If	Emission Total Angle	Peak Wave-length	Vf @ 20mA If Typ.	Max.	Steady If Max.	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
10MM Mega-Brite Lites													
3	Orn./Red	Clear	4500	8°	620nm	2.1	2.5	30mA	67-1399-ND◆	2.77	2.45	1.58	SSL-LX100133XOC
	Green	Clear	1600	8°	568nm	2.2	2.7	25mA	67-1400-ND	1.08	.84	.60	SSL-LX100133XGC
	Yellow	Clear	2500	8°	590nm	2.1	2.5	30mA	67-1401-ND◆	3.05	2.70	1.74	SSL-LX100133XYC/B

Fig.	Color Pin 1	Pin 3	Vf	Io (mcd)	View Angle	If (mA)	Digi-Key Part No.	Price Each 1	10	100	250	Lumex Part No.
Bi-Color LEDs — RoHS Compliant												
4	Green	Yellow	2.0	30/30	60°	20	67-1329-ND	1.00	.82	.57	.51	SSL-LX3059GYW
	Red	Green	2.0	30	60°	20	67-1327-ND	1.00	.82	.57	.51	SSL-LX3059IGW
	Red	Yellow	2.0	30	60°	20	67-1328-ND	1.00	.82	.57	.51	SSL-LX3059IYW

◆ ***RoHS Compliant***

Low Battery Indicators

Emitted Color: Red **Wavelength (NM):** 660 **Intensity:** 3mcd **Standby Current:** 5μA

Fig. 1

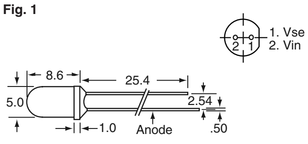

Fig. 2

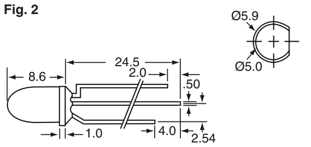

Fig.	Detection Voltage (V)	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	2.5	60°	67-1195-ND	1.48	1.21	.84	SSL-LX5093LBI-SRD
2	3.75 ~ 7.5	60°	67-1196-ND	1.92	1.56	1.08	SSL-LX5099LBI-SRD

T-1 3/4 Flashing LED Lamps

Features:
- Operating Voltage: 3.0 ~ 14.0 • Blinking Frequency: 1.5Hz ~ 2.5Hz • Operating Temperature Range: -55°C ~ 100°C

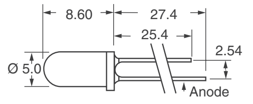

Color	Color Source	Io @ VF=9V (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
Red/Diff.	Brt. Red	200	60°	67-1499-ND	1.24	1.01	.70	SSL-LX5093BSRD
Dark Red/Diff.	Red	4.0	60°	67-1497-ND	1.12	.92	.64	SSL-LX5093BHD
Red/Diff.	Red	40	60°	67-1498-ND	1.12	.92	.64	SSL-LX5093BID
Green/Diff.	Green	20	60°	67-1496-ND	1.12	.92	.64	SSL-LX5093BGD
Yellow/Diff.	Yellow	20	60°	67-1495-ND	1.12	.92	.64	SSL-LX5093BYD

20mm 6-Element LED Dome

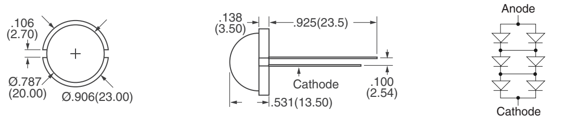

Color	Wave-length λ (nm)	Vf Typ. (V)	If Max. (mA)	Io @ If = 20mA (mcd)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
Green	565	6.6	25	25	67-1526-ND	2.03	1.80	1.16	SSL-LX20R6GD
Red	635	6.0	30	35	67-1527-ND	2.03	1.80	1.16	SSL-LX20R6ID
Red	660	5.1	30	60	67-1528-ND	2.59	2.30	1.48	SSL-LX20R6SRD
Yellow	585	6.3	30	23	67-1529-ND	2.03	1.80	1.16	SSL-LX20R6YD

PC Mount LED Arrays / Light Bars

Fig. 1

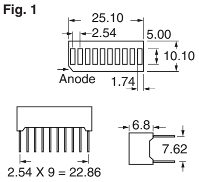

Fig. 2

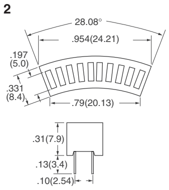

Fig. 3

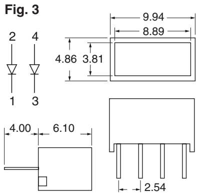

Fig. 4

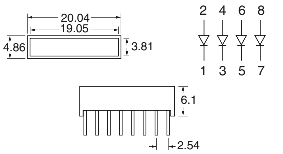

Fig. 5

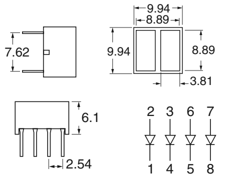

Fig. 6

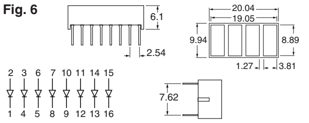

Fig. 7

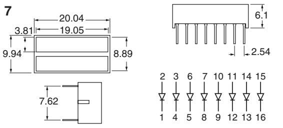

Fig. 8

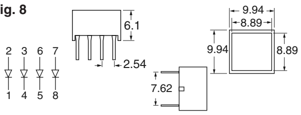

Fig. 9

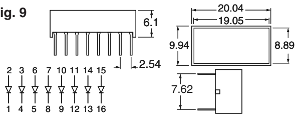

Fig.	Emitted Color	Vf	Io (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	Green	2.2	10	25	67-1008-ND◆	3.33	2.95	1.90	SSA-LXB10GW-GF/LP
1	Red	2.0	4	30	67-1009-ND◆	2.48	2.20	1.42	SSA-LXB10HW-GF/LP
1	Red	2.0	10	30	67-1010-ND◆	3.33	2.95	1.90	SSA-LXB10IW-GF/LP
2	Red	1.7	40	30	67-1525-ND◆	6.72	5.60	4.04	SSA-LXB10SRW-10652
3	Red	2.0	25	30	67-1013-ND◆	1.21	.99	.68	SSB-LX2300IW
4	Red	2.1	50	30	67-1014-ND◆	1.82	1.48	1.03	SSB-LX2350IW
3	Yellow	2.1	18	30	67-1015-ND◆	1.21	.99	.68	SSB-LX2400YW
3	Green	2.2	25	25	67-1017-ND◆	1.21	.99	.68	SSB-LX2500SGW
5	Red	2.1	25	30	67-1018-ND◆	1.99	1.62	1.13	SSB-LX2600IW
6	Red	2.1	25	30	67-1019-ND◆	2.75	2.44	1.57	SSB-LX2620IW
7	Red	2.0	50	30	67-1020-ND	2.75	2.44	1.57	SSB-LX2635IW
8	Red	2.1	45	30	67-1021-ND◆	1.99	1.62	1.13	SSB-LX2655IW
9	Red	2.1	80	30	67-1022-ND◆	2.75	2.44	1.57	SSB-LX2685IW
5	Yellow	2.1	18	30	67-1023-ND	1.99	1.62	1.13	SSB-LX2700YW
6	Yellow	2.1	18	30	67-1024-ND◆	2.75	2.44	1.57	SSB-LX2720YW
8	Yellow	2.1	35	30	67-1026-ND◆	1.99	1.62	1.13	SSB-LX2755YW
9	Yellow	2.1	70	30	67-1027-ND◆	2.75	2.44	1.57	SSB-LX2785YW
8	Red/Yel	2.1	25	30	67-1028-ND	2.91	2.58	1.66	SSB-LX2950IYW
8	Red/Grn	2.1	25	30/25	67-1029-ND◆	2.91	2.58	1.66	SSB-LX2965IGW
3	Red	1.7	40	30	67-1030-ND◆	1.39	1.13	.79	SSB-LXA100SRW
4	Red	1.7	80	30	67-1031-ND◆	1.79	1.59	1.03	SSB-LXB100SRW
8	Red	1.7	80	30	67-1032-ND◆	2.74	2.43	1.57	SSB-LXC100SRW
6	Red	1.7	40	30	67-1034-ND◆	3.17	2.81	1.81	SSB-LXE100SRW
7	Red	1.7	80	30	67-1035-ND◆	3.17	2.81	1.81	SSB-LXF100SRW
9	Red	1.7	150	30	67-1036-ND◆	3.17	2.81	1.81	SSB-LXH100SRW
4	Green	2.2	150	20	67-2032-5-ND◆	6.96	5.80	4.18	SSB-LX2550SUGW

◆ ***RoHS Compliant***

LUMEX®
Creating LED and LCD Solutions Together™

Panel Mount LEDs

Dimensions in mm

Fig. 1

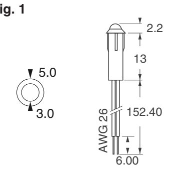

Fig. 2

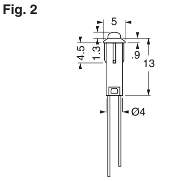

Fig. 3

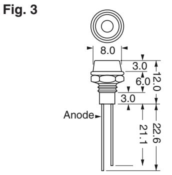

Fig. 4

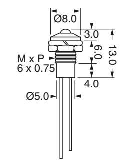

Fig. 5

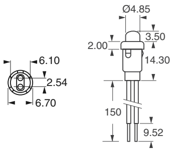

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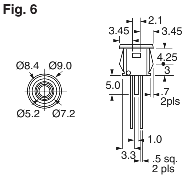

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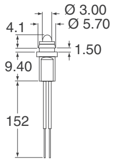

(rear panel mount)

Fig. 8

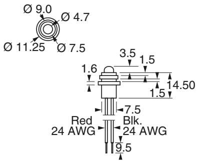

(rear panel mount)

Fig. 9

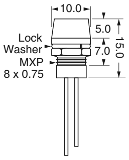

(reflector bezel)

Fig. 10

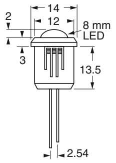

Fig. 11

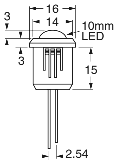

Fig. 12

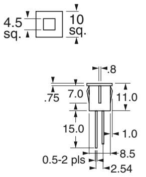

Fig. 13

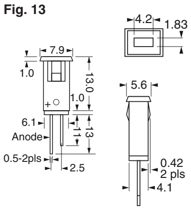

Fig. 14

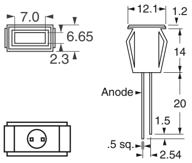

Fig. 15

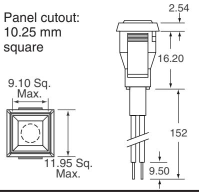
Panel cutout:
10.25 mm
square

Fig. 16

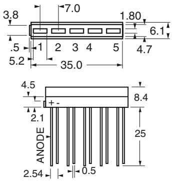

Fig. 17

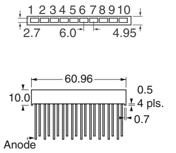

Fig. 18

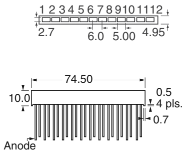

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typical	If (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Lumex Part No.
1	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1190-ND	1.92	1.56	1.08	SSI-LXH312ID-150
	T-1 (3mm)	Green	Green Diffused	565	2.1	25	30	60	67-1191-ND	1.92	1.56	1.08	SSI-LXH312GD-150
2	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1192-ND	1.00	.82	.57	SSI-LXH312ID
3	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	70	60	67-1150-ND	1.75	1.55	1.00	SSI-LXR1612SRD
	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1147-ND	1.80	1.47	1.02	SSI-LXR1612ID
	T-1 (3mm)	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1149-ND	1.80	1.47	1.02	SSI-LXR1612YD
	T-1 (3mm)	Green	Green Diffused	565	2.2	25	30	60	67-1148-ND	1.80	1.47	1.02	SSI-LXR1612GD
4	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	65	60	67-1154-ND	1.82	1.62	1.04	SSI-LXR3612SRD
	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1151-ND	1.88	1.53	1.06	SSI-LXR3612ID
	T-1 (3mm)	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1153-ND	1.88	1.53	1.06	SSI-LXR3612YD
	T-1 (3mm)	Green	Green Diffused	565	2.2	25	30	60	67-1152-ND	1.88	1.53	1.06	SSI-LXR3612GD
5	T-1 3/4 (5mm)	Red/Green	White Diffused	700/565	2.0/2.2	25	6/25	60	67-1187-ND	2.63	2.33	1.50	SSI-LXH600HGW-150
	T-1 3/4 (5mm)	Red	Red Diffused	635	2.0	30	40	60	67-1188-ND	1.84	1.50	1.04	SSI-LXH600ID-150
	T-1 3/4 (5mm)	Green	Green Diffused	565	2.2	25	30	60	67-1189-ND	1.84	1.50	1.04	SSI-LXH600GD-150
6	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	60	120	67-1158-ND	1.82	1.62	1.04	SSI-LXH387SRD
	T-1 3/4 (5mm)	Red	Red Diffused	635	2.0	30	10	120	67-1155-ND	1.80	1.47	1.02	SSI-LXH387ID
	T-1 3/4 (5mm)	Yellow	Yellow Diffused	585	2.1	30	10	120	67-1157-ND	1.80	1.47	1.02	SSI-LXH387YD
	T-1 3/4 (5mm)	Green	Green Diffused	565	2.2	30	10	120	67-1156-ND	1.80	1.47	1.02	SSI-LXH387GD
7	T-1 (3mm)	Super Red	Red Diffused	660	1.7	30	100	60	67-1677-ND	3.42	3.03	1.96	SSI-RM3091SRD-150
	T-1 (3mm)	AllnGap Red	Red Diffused	636	2.0	30	100	60	67-1679-ND	3.12	2.60	1.88	SSI-RM3091SID-150
	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1676-ND	3.02	2.68	1.73	SSI-RM3091ID-150
	T-1 (3mm)	Super Orange	Orange Diffused	610	2.0	30	100	60	67-1680-ND	3.48	3.09	1.99	SSI-RM3091SOD-150
	T-1 (3mm)	Super Yellow	Yellow Diffused	590	2.1	30	100	60	67-1682-ND	3.48	3.09	1.99	SSI-RM3091SYD-150
	T-1 (3mm)	Super Ultra Green	Green Diffused	574	2.2	25	50	60	67-1688-ND	3.30	2.75	1.98	SSI-RM3091SUGD-150
	T-1 (3mm)	Yellow	Yellow Diffused	585	2.1	30	20	60	67-1678-ND	3.02	2.68	1.73	SSI-RM3091YD-150
	T-1 (3mm)	Green	Green Diffused	565	2.2	25	20	60	67-1675-ND	3.02	2.68	1.73	SSI-RM3091GD-150
	T-1 (3mm)	Ultra Super Blue	Blue Diffused	470	3.5	30	60	60	67-1683-ND	5.46	4.55	3.28	SSI-RM3091USBD-150
8	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	80	60	67-1162-ND	1.93	1.71	1.10	SSI-LXH9SRD-150
	T-1 3/4 (5mm)	Red	Red Diffused	635	2.0	30	40	60	67-1159-ND	1.96	1.60	1.11	SSI-LXH9ID/-150
	T-1 3/4 (5mm)	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1161-ND	1.96	1.60	1.11	SSI-LXH9YD-150
	T-1 3/4 (5mm)	Green	Green Diffused	565	2.2	25	30	60	67-1160-ND	1.96	1.60	1.11	SSI-LXH9GD-150
9	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.8	30	300	60	67-1166-ND	1.75	1.55	1.00	SSI-LXR4815SRD
	T-1 3/4 (5mm)	Red	Red Diffused	635	2	30	40	60	67-1163-ND	1.80	1.47	1.02	SSI-LXR4815ID
	T-1 3/4 (5mm)	Yellow	Yellow Diffused	585	2.1	30	20	60	67-1165-ND	1.80	1.47	1.02	SSI-LXR4815YD
	T-1 3/4 (5mm)	Green	Green Diffused	565	2.2	25	30	60	67-1164-ND	1.80	1.47	1.02	SSI-LXR4815GD
10	8mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1170-ND	1.36	1.11	.77	SSI-LXH8080SRD
	8mm	Red	Red Diffused	635	2.0	30	40	60	67-1167-ND	1.12	.91	.63	SSI-LXH8080ID
	8mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1169-ND	1.12	.91	.63	SSI-LXH8080YD
	8mm	Green	Green Diffused	565	2.2	25	30	60	67-1168-ND	1.12	.91	.63	SSI-LXH8080GD
11	10mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1174-ND	1.56	1.27	.88	SSI-LXH1090SRD
	10mm	Red	Red Diffused	635	2.0	30	40	60	67-1171-ND	1.36	1.11	.77	SSI-LXH1090ID
	10mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1173-ND	1.36	1.11	.77	SSI-LXH1090YD
	10mm	Green	Green Diffused	565	2.2	25	30	60	67-1172-ND	1.36	1.11	.77	SSI-LXH1090GD
12	5mm	Super Red	Red Diffused	660	1.8	30	20	80	67-1178-ND	1.28	1.04	.72	SSI-LXH55SRD
	5mm	Red	Red Diffused	635	2.0	30	10	80	67-1175-ND	1.04	.85	.59	SSI-LXH55ID
	5mm	Yellow	Yellow Diffused	585	2.1	30	10	80	67-1177-ND	1.04	.85	.59	SSI-LXH55YD
	5mm	Green	Green Diffused	565	2.2	25	10	80	67-1176-ND	1.04	.85	.59	SSI-LXH55GD
13	2 x 5mm	Super Red	Red Diffused	660	1.7	30	25	110	67-1182-ND	1.84	1.50	1.04	SSI-LXMP059SRD
	2 x 5mm	Red	Red Diffused	635	2.0	30	10	110	67-1179-ND	1.52	1.24	.86	SSI-LXMP059ID
	2 x 5mm	Yellow	Yellow Diffused	585	2.1	30	10	110	67-1181-ND	1.52	1.24	.86	SSI-LXMP059YD
	2 x 5mm	Green	Green Diffused	565	2.2	25	10	110	67-1180-ND	1.52	1.24	.86	SSI-LXMP059GD
14	2.3 x 7mm	Super Red	Red Diffused	660	1.7	30	50	110	67-1186-ND	1.60	1.30	.90	SSI-LXH072SRD
	2.3 x 7mm	Red	Red Diffused	635	2.0	30	15	110	67-1183-ND	1.36	1.11	.77	SSI-LXH072ID
	2.3 x 7mm	Yellow	Yellow Diffused	585	2.1	30	9	110	67-1185-ND	1.36	1.11	.77	SSI-LXH072YD
	2.3 x 7mm	Green	Green Diffused	565	2.2	25	9	110	67-1184-ND	1.36	1.11	.77	SSI-LXH072GD
15	9 x 9mm	Super Red	Water Clear	660	1.8	30	60	60	67-1545-ND	2.30	2.04	1.32	SSI-LXMP5011SRC-150
	9 x 9mm	Red	Water Clear	635	2.0	30	20	60	67-1544-ND	2.09	1.86	1.20	SSI-LXMP5011IC-150
	9 x 9mm	Yellow	Water Clear	585	2.1	30	15	60	67-1546-ND	2.09	1.86	1.20	SSI-LXMP5011YC-150
	9 x 9mm	Green	Water Clear	565	2.2	25	15	60	67-1543-ND	2.09	1.86	1.20	SSI-LXMP5011GC-150
16	2 x 5mm	Super Red	Red Diffused	660	1.7	30	40	110	67-1204-ND	3.47	3.07	1.98	SSA-LXB525SRD
	2 x 5mm	Red	Red Diffused	635	2.0	30	12	110	67-1201-ND	2.14	1.90	1.22	SSA-LXB525ID
	2 x 5mm	Yellow	Yellow Diffused	585	2.1	30	10	110	67-1203-ND	2.24	1.99	1.28	SSA-LXB525YD
	2 x 5mm	Green	Green Diffused	565	2.0	25	10	110	67-1202-ND	2.14	1.90	1.22	SSA-LXB525GD

(Continued)

Panel Mount LEDs *(Cont.)*

Dimensions in mm

Fig. 19

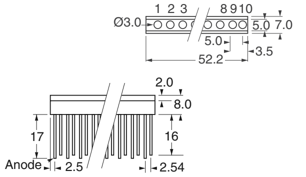

Fig. 20

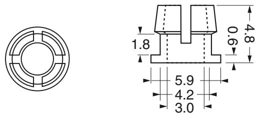

Fig. 21

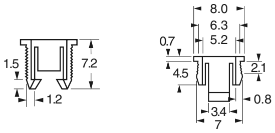

Fig. 22

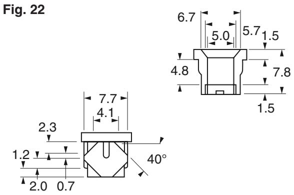

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typical	If (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
17	2.5 x 5mm	Super Red	Red Diffused	660	1.8	30	25	60	67-1208-ND	5.34	4.45	3.21	SSA-LXH1025SRD
	2.5 x 5mm	Red	Red Diffused	635	2.0	30	10	60	67-1205-ND	3.72	3.10	2.24	SSA-LXH1025ID
	2.5 x 5mm	Yellow	Yellow Diffused	585	2.1	30	10	60	67-1207-ND	4.17	3.48	2.51	SSA-LXH1025YD
	2.5 x 5mm	Green	Green Diffused	565	2.2	25	10	60	67-1206-ND	3.72	3.10	2.24	SSA-LXH1025GD
18	2.5 x 5mm	Super Red	Red Diffused	660	2.0	30	30	80	67-1212-ND	7.02	6.36	4.24	SSA-LXH1225SRD
	2.5 x 5mm	Red	Red Diffused	635	2.0	30	10	80	67-1209-ND	5.46	4.55	3.28	SSA-LXH1225ID
	2.5 x 5mm	Yellow	Yellow Diffused	585	2.1	30	10	80	67-1211-ND	5.73	4.78	3.44	SSA-LXH1225YD
	2.5 x 5mm	Green	Green Diffused	565	2.0	30	10	80	67-1210-ND	5.46	4.55	3.28	SSA-LXH1225GD
19	3mm	Super Red	Red Diffused	660	1.7	30	25	80	67-1216-ND	6.57	5.48	3.95	SSA-LXB102SRD
	3mm	Yellow	Yellow Diffused	585	2.1	30	8	80	67-1215-ND	4.17	3.48	2.51	SSA-LXB102YD
	3mm	Green	Green Diffused	565	2.1	25	8	80	67-1214-ND	4.47	3.73	2.69	SSA-LXB102GD

LED Holders

Fig.	Description	Panel Hole	Digi-Key Part No.	Pricing 5	10	100	Lumex Part No.
20	T1 Black Nylon	.160” (4.06)	67-1330-ND	1.88	2.70	15.60	SSH-LX3050
21	T1-3/4 Black Nylon	.250” (6.35)	67-1332-ND	1.80	2.60	14.00	SSH-LX5091
22	T1-3/4 Black Nylon	.330” (8.38)	67-1333-ND	1.88	2.70	15.60	SSH-LXH501

NEW! Waterproof Panel Mount LEDs

Features: • Waterproof Rate: IP67 • M8 Size Connector • Solder Pins • For Panel Thickness 6.5mm maximum • Lens Color: Clear • Shape: Round • Family: Panel Indicators, Pilot Lights

Fig.	Size	Color	Voltage	Digi-Key Part No.	Pricing 1	10	25	Assmann Part No.
				Plastic Housing				
1	3mm	Blue	3.5V	AE10586-ND	8.53	77.89	185.45	A-LED8-1BAAS-PR7-1-R
	3mm	Green	2.2V	AE10587-ND	8.53	77.89	185.45	A-LED8-1GAAS-PR7-1-R
	3mm	Red	2.2V	AE10588-ND	8.53	77.89	185.45	A-LED8-1RAAS-PR7-1-R
	3mm	White	3.5V	AE10589-ND	8.53	77.89	185.45	A-LED8-1WAAS-PR7-1-R
	3mm	Yellow	2V	AE10590-ND	8.53	77.89	185.45	A-LED8-1YAAS-PR7-1-R
				Metal Housing				
2	3mm	Blue	3.5V	AE10581-ND	10.59	96.73	230.30	A-LED8-1BAAS-MR7-1-R
	3mm	Green	3.5V	AE10582-ND	10.59	96.73	230.30	A-LED8-1GAAS-MR7-1-R
	3mm	Red	2.2V	AE10583-ND	10.59	96.73	230.30	A-LED8-1RAAS-MR7-1-R
	3mm	White	3.5V	AE10584-ND	10.59	96.73	230.30	A-LED8-1WAAS-MR7-1-R
	3mm	Yellow	2V	AE10585-ND	10.59	96.73	230.30	A-LED8-1YAAS-MR7-1-R
	5mm	Blue	3.5V	AE10575-ND	11.15	101.81	242.40	A-LED8-1BBAS-MR7-1-R
	5mm	Green	3.5V	AE10576-ND	11.15	101.81	242.40	A-LED8-1GBAS-MR7-1-R
	5mm	Red	2.2V	AE10577-ND	11.15	101.81	242.40	A-LED8-1RBAS-MR7-1-R
	5mm	White	3.5V	AE10578-ND	11.15	101.81	242.40	A-LED8-1WBAS-MR7-1-R
	5mm	Yellow	2V	AE10579-ND	11.15	101.81	242.40	A-LED8-1YBAS-MR7-1-R
3	3mm	Red/Green	2V Red, 3.4V Green	AE10580-ND	10.18	94.18	222.73	A-LED8-1AAAS-MR7-1-R
	5mm	Red/Green	2V Red, 3.3V Green	AE10574-ND	10.67	98.66	233.32	A-LED8-1ABAS-MR7-1-R

Fig. 1

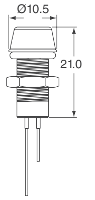

Fig. 2

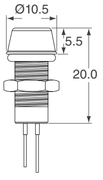

Fig. 3

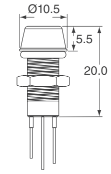

Based LEDs

Fig. 1

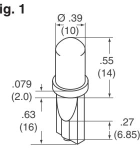

Fig. 2

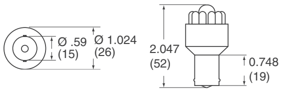

Fig. 3

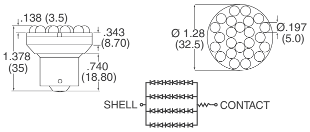

Fig. 4

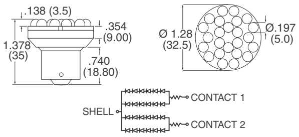

Fig.	Emitted Color	Lens	Peak Wave-length (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Sunbrite Part No.
						LED Miniature Wedge Base						
1	Red	Milky White Diffused	626	12	30	2800	60	441-1004-ND	1.32	1.08	.75	SSP-01TWB6UW12
	Red	Water Clear	626	12	30	8000	30	441-1005-ND	1.32	1.08	.75	SSP-01TWB6UWB12
	Ultra Green	Milky White Diffused	525	12	30	2800	60	441-1000-ND	1.87	1.66	1.07	SSP-01TWB2UPW12
	Pure Green	Water Clear	525	12	30	9000	30	441-1001-ND	1.87	1.66	1.07	SSP-01TWB2UPWB12
	Super Blue	Milky White Diffused	470	12	30	1600	60	441-1006-ND	1.75	1.55	1.00	SSP-01TWB7UW12
	Super Blue	Water Clear	470	12	30	7000	30	441-1007-ND	1.87	1.66	1.07	SSP-01TWB7UWB12
	Ultra White	Milky White Diffused	—	12	30	3300	60	441-1008-ND	1.87	1.66	1.07	SSP-01TWB9W12
	Ultra White	Water Clear	—	12	30	11000	30	441-1009-ND	1.87	1.66	1.07	SSP-01TWB9WB12
						1156 Based LED Lamp						
2	Red	Water Clear	626	12	110	47000	30	441-1012-ND	5.01	4.18	3.01	SSP-1156B156U12
	Yellow	Water Clear	590	12	110	48500	30	441-1011-ND	5.01	4.18	3.01	SSP-1156B153S12
	Green	Water Clear	525	12	110	70400	30	441-1010-ND	13.51	12.94	8.63	SSP-1156B152UP12
	Super Blue	Water Clear	470	12	110	13500	30	441-1013-ND	12.36	11.84	7.89	SSP-1156B157U12
	Ultra White	Water Clear	—	12	110	48000	30	441-1014-ND	13.51	12.94	8.63	SSP-1156B15912
						Bayonet (BA15) Base						
3	Red	Water Clear	626	12	140	102400	60	441-1026-ND	9.81	8.88	5.92	SSP-24MB156U12G
	Yellow	Water Clear	590	12	140	106200	30	441-1025-ND	9.81	8.88	5.92	SSP-24MB153S12G
4	Red	Water Clear	626	12	140	102400/33800	60	441-1029-ND	9.81	8.88	5.92	SSP-24MDB156U12G
	Yellow	Water Clear	590	12	140	106200/35000	60	441-1028-ND	9.81	8.88	5.92	SSP-24MDB153S12G

Thermal Clad LED IMS® Boards

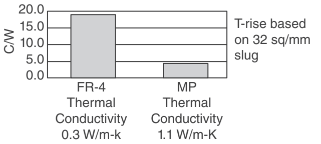
Thermal Impedance of FR4 compared to MP

Bergquist offers a family of standard thermally conductive insulated metal substrate (IMS) circuit boards specifically for LED applications which replace conventional FR-4 PCBs. Better thermal management allows more forward current to be applied to the LED, while still maintaining desired die temperatures, which means more light and possibly reducing the number of LEDs required to achieve the desired light output. Star or square substrates are available in single, strip or array configurations. Choose from different LED footprints to give you the freedom to select the LED component's color, brightness and power that best suits your needs.

Specifications: • Base metal: 1.57mm (0.062") Aluminum 5052 • Thermally Conductive Dielectric: .076mm (3 mil) MP • Copper Circuit Foil: 35μm (1 oz. copper circuit foil • Surface Finish: White solder mask, Pb-free HASL solder pads

Dimensions in mm

Fig. 1
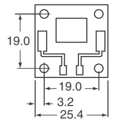

Fig. 2
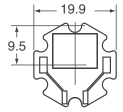

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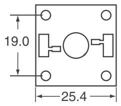

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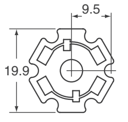

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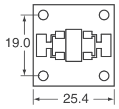

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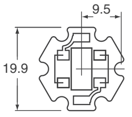

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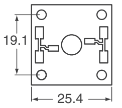

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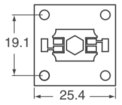

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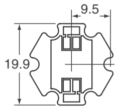

Fig. 10
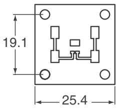

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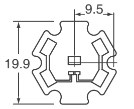

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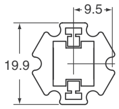

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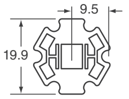

Fig. 14
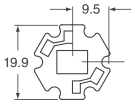

Fig. 15
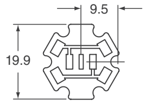

Fig.	Footprint Type	Digi-Key Part No.	Price Each 1	10	100	500	Bergquist Part No.
1	Avago Moonstone™ Emitter	BER258-ND	1.61	1.44	1.14	.99	803111
2	Avago Moonstone™ Emitter	BER265-ND	1.01	.91	.72	.63	803121
2	Avago Moonstone™ Emitter	BER290-ND§	18.49	17.41	15.24	14.15	803261
3	Lite-On® LOPL	BER259-ND	1.61	1.44	1.14	.99	803113
4	Lite-On® LOPL	BER266-ND	1.01	.91	.72	.63	803123
4	Lite-On® LOPL	BER292-ND§	18.50	17.41	15.24	14.15	803263
5	Lumex SML-LX	BER260-ND	1.61	1.44	1.14	.99	803114
6	Lumex SML-LX	BER267-ND	1.01	.91	.72	.63	803124
4	Lumileds™ Luxeon® I, III, and V	BER268-ND	1.01	.91	.72	.63	803125
4	Lumileds™ Luxeon® I, III and V	BER293-ND§	18.50	17.41	15.24	14.15	803265
7	Lumileds™ Luxeon® I, III, and V	BER261-ND	1.61	1.44	1.14	.99	803115
8	Lumileds™ Luxeon® K2	BER262-ND	1.61	1.44	1.14	.99	803116
9	Lumileds™ Luxeon® K2	BER269-ND	1.01	.91	.72	.63	803126
9	Lumileds™ Luxeon® K2	BER294-ND§	18.50	17.41	15.24	14.15	803266
10	Lumileds™ Luxeon® Rebel	BER263-ND	1.61	1.44	1.14	.99	803117

Fig.	Footprint Type	Digi-Key Part No.	Price Each 1	10	100	500	Bergquist Part No.
11	Lumileds™ Luxeon® Rebel	BER270-ND	1.01	.91	.72	.63	803127
11	Lumileds™ Luxeon® Rebel	BER295-ND§	18.50	17.41	15.24	14.15	803267
12	Osram Golden Dragon®	BER271-ND	1.01	.91	.72	.63	803128
12	Osram Golden Dragon®	BER296-ND§	18.50	17.41	15.24	14.15	803268
13	Cree® XLamp®	BER272-ND	1.01	.91	.72	.63	803122
13	Cree® XLamp®	BER291-ND§	18.50	17.41	15.24	14.15	803262
—	Array LED IMS Cree® XLamp® MC-E	BER298-ND§	18.50	17.41	15.24	14.15	803790
14	Seoul Semiconductor Z-Power	BER287-ND	.61	.55	.44	.38	803129
14	Seoul Semiconductor Z-Power	BER297-ND§	18.50	17.41	15.24	14.15	803269
15	Nichia Power LED 3.5 x 3.5	BER288-ND	.61	.55	.44	.38	803291
—	Board LED IMS Osram Ostar SMD	BER282-ND	.53	.50	.44	.41	803808
—	Array Star LED IMS Seoul Semi P5	BER299-ND	18.50	17.41	15.24	14.15	803803

§ Board Array, Contains 36 Stars

Tyco Electronics
Authorized Distributor

LED Star Board Holder/Heat Sink

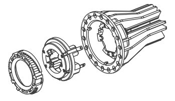

The Star Board Holder is designed to house and provide electrical interconnection and thermal solution for a high-power LED star printed circuit (pc) board light source. The star board holder consists of a heat sink, locking ring, and contact carrier assembly. The star board holder is capable of two-contact loading for single-color LEDs and three-or four-contact loading for full-color (RGB) LEDs (common anode or common cathode). The contact carrier assembly and heat sink are marked with A, B, C, and D to reference the polarity of the LED to ensure proper orientation in the lighting fixture.

A99505-ND (2008675-1)	Star Board Holder/Heat Sink	**$18.63**
A99798-ND (2008671-1)	Lens for Star Board Holder	**$3.60**
A99838-ND (2058329-1)	Thermal Pad for Star Board Holder	**$.43**

Low and High Intensity LED Light Pipe

Linear light source using a TE proprietary large core optical fiber rod that projects a band of light along the entire length of the light pipe using one or more LEDs. **Applications:** • Accent/ Trim lighting found in commercial building, industrial, appliance, rail, motor vehicle and commercial aircraft **Electrical: High Intensity Light Socket:** • Operating Voltage: up to 50V maximum • Operating Current: up to 2500mA • Maximum wattage: up to 5 watts is possible; **Low Intensity Light Engine:** • Input Voltage: Universal 7 ~ 27VDC • LED Wattage rating: 1/2 watt **Materials:** Light Pipe: • Clear and white acrylic **Low Intensity Light Assembly:** • Housing: PBT • PCB: FR4; **High Intensity Light Socket Assembly:** • Contact carrier: PBT • Locking ring: PBT • Contacts: Copper alloy - Tin plated • Heat Sink: Cast aluminum

Fig. 1
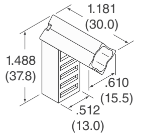

Fig. 2
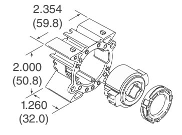

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	500	Tyco Electronics Part No.
	Light Engines						
1	Low Intensity Light Pipe, 10mm	A99857-ND	21.33	19.32	13.69	12.08	2008876-1
1	Low Intensity Light Pipe, 5mm	A99858-ND	21.33	19.32	13.69	12.08	2008876-2
2	High Intensity Light Socket, 10mm	A99859-ND	22.13	20.04	14.20	12.53	2008639-1
	Light Pipes						
—	Light Pipe, 10mm diameter, 150mm length	A99860-ND	2.84	2.57	1.82	1.61	2058295-1
	Accessories						
—	Light Pipe Cable Assembly, 2mm x 152mm	A99862-ND	1.13	1.03	.73	.65	2058077-1
	High Intensity Cable Light Socket, Black	A99863-ND	.30	.28	.20	.17	2058102-1
	High Intensity Cable Light Socket, Red	A99864-ND	.30	.28	.20	.17	2058102-2

NEW! G13 Style SMT Assembly and End Cap Cover

The G13 Style SMT Assembly and End Cap Cover are designed for use on printed circuit board LED strip lighting modules in T8 and T12 fluorescent retrofit LED tubes. **Applications:** • Standard T8 and T12 fluorescent fixtures **Electrical:** • Operating Voltage: 250VAC/250VDC • Operating Current: 2 AMPS • Dielectric Withstanding Voltage: 1500VAC **Mechanical:** • Operating Temperature: -40° ~ 120°C • Mating Cycles: 10

Fig. 1
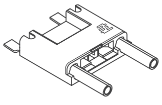

Fig. 2
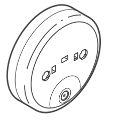

Fig.	Decscription	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Pricing 400	Tyco Electronics Part No.
1	Connector G13 2POS Assembly	A100342CT-ND	2.46	2.24	1.59	520.80	2106150-1
2	Connector G13 Style End Cap Cover	A100341-ND	1.22	1.11	.79	—	2106646-1

† For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

NEW! Board-to-Board Screw Down Jumper Assembly

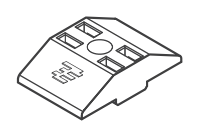

The board-to-board, screw down jumper assembly provides the electrical connection between two adjacent printed circuit boards in a string of printed circuit boards. **Applications:** • T8-T12 fluorescent retrofit LED bulbs • LED lighting strips • LED lighting controls • Channel lettering **Electrical:** • Operating Voltage: 250VAC/250VDC • Operating Current: 5 AMPS • Dielectric Withstanding Voltage: 1500 VAC **Materials:** • Housing: UL 94 VO Thermoplastic • Contact: Tin plated copper alloy • ETL Recognized, File No. 3178692CRT-001 ~ UL (1977)
Mechanical: • Operating Temperature: -40°C ~ 105°C • Mating Cycles: 10 • Screw down torques: 0.11 Nm (0.97 Lb-In) max

Description	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
Board-to-Board 2 Position Connector Jumper	A100340-NDΔ	1.51	1.37	.97	2106154-1

Δ Tube

Inverted SMT Thru Board Connectors

The inverted SMT Thru Board Connector provides a means to bring power to LED aluminum clad and FR4 boards from the underside of the PC board.

Applications: • LED lighting controls • Indoor and outdoor lighting fixtures • General LED illumination fixtures • Various non-lighting applications that require wire dress connections below the PC board **Electrical:** • Operating Voltage: 50VAC/50VDC • Operating Current: 3A for #24AWG, 2.5A for #26AWG, 1.5A for #28AWG **Materials:** • Housing: UL 94V-O rated thermoplastic • Contact: Tin over nickel plated copper alloy

Mechanical: • Operating Temperature: -40°C ~ 105°C

Feature: • Accepts 2 thru 6 position TE mini CT Connector

Fig. 1

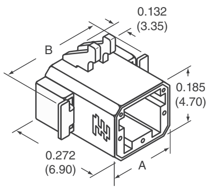

Fig. 2 ***NEW!***

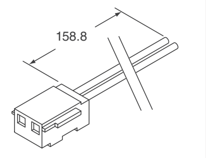

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 450	Tyco Electronics Part No.
Inverted SMT Thru Board Connectors										
1	2	5.5	9.11	A99870CT-ND†	.92	.77	.62	A99870TR-ND	207.26	2106091-1
	3	7.0	10.61	A99871CT-ND†	1.07	.89	.72	A99871TR-ND	239.86	2106091-2
	4	8.50	12.11	A99872CT-ND†	1.24	1.04	.83	A99872TR-ND	278.52	2106091-3
	5	10.00	13.61	A99873CT-ND†	1.40	1.17	.94	A99873TR-ND	313.92	2106091-4
	6	11.50	15.11	A99874CT-ND†	1.57	1.32	1.05	A99874TR-ND	353.97	2106091-5
NEW! Mini CT Cable Assemblies NEW!										
2	2	—	—	A100192-ND	.52	.46	.37	—	—	2058943-1
	3	—	—	A100193-ND	.63	.55	.44	—	—	2058943-2
	4	—	—	A100194-ND	.72	.63	.51	—	—	2058943-3
	5	—	—	A100195-ND	.84	.74	.59	—	—	2058943-4
	6	—	—	A100196-ND	.93	.82	.66	—	—	2058943-5

† Cut Tape

Hermaphroditic Blade and Receptacle Connectors

The Hermaphroditic Blade and Receptacle SMT connector is intended for use with in-line board-to-board applications. **Applications:** • LED lighting modules • Incandescent lighting strips • Channel lettering **Electrical (without latch):** • Operating current: 5A • Operating Voltage: 90VAC/90VDC • Dielectric Withstanding Voltage: 1500VAC **Electrical (with latch):** • Operating current: 6A • Operating Voltage: • 125VAC/125VDC • Dielectric Withstanding Voltage: 1500VAC **Mechanical:** Operating Temperature: -40°C ~ 105°C **Materials:** • Housing: UL 94V-O high temperature resistant thermoplastic • Contact: Copper Alloy, tin over nickel plated **Standards and Specifications:** UL and cUL Recognized, File No. E28476

Fig. 1

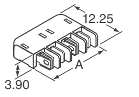

Fig. 2

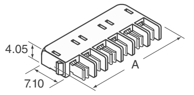

Fig. 3

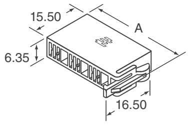

Fig.	No. of Positions	Color	Dimension A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Tyco Electronics Part No.
Receptacle and Blade without Latch											
1	2	White	7.90	A99123CT-ND	.58	13.04	36.95	A99123TR-ND	1,000	304.29	1954289-1
	4	White	15.90	A99124CT-ND	1.13	25.67	72.73	A99124TR-ND	1,000	598.92	1954289-2
	6	White	23.90	A99125CT-ND	1.58	35.81	101.46	A99125TR-ND	1,000	835.59	1954289-3
	2	Black	7.90	A99126CT-ND	.58	13.04	36.95	A99126TR-ND	1,000	304.29	1-1954289-1
	4	Black	15.90	A99127CT-ND	1.13	25.67	72.73	A99127TR-ND	1,000	598.92	1-1954289-2
	6	Black	23.90	A99128CT-ND	1.58	35.81	101.46	A99128TR-ND	1,000	835.59	1-1954289-3
Receptacle and Blade with Latch											
2	2	White	8.70	A99881CT-ND	.58	13.04	36.95	A99881TR-ND	1,000	289.08	2058703-1
	6	White	24.70	A99883CT-ND	1.58	35.81	101.46	A99883TR-ND	1,000	793.81	2058703-3
	2	Black	8.70	A99884CT-ND	.58	13.04	36.95	A99884TR-ND	1,000	289.08	1-2058703-1
	4	Black	16.70	A99885CT-ND	1.13	25.67	72.73	A99885TR-ND	1,000	568.97	1-2058703-2
	6	Black	24.70	A99886CT-ND	1.58	35.81	101.46	A99886TR-ND	1,000	793.81	1-2058703-3
Dust Covers											
—	2	Natural	—	A99887-ND	.24	5.38	15.25	—	—	—	2058128-1
	4	Natural	—	A99888-ND	.29	6.50	18.42	—	—	—	2058128-2
	6	Natural	—	A99889-ND	.29	6.58	18.65	—	—	—	2058128-3
Wire-to-Board Housings											
3	2	Natural	12.40	A99890-ND	.27	6.21	17.60	—	—	—	2058299-1
	4	Natural	20.40	A99891-ND	.32	7.25	20.53	—	—	—	2058299-2
	6	Natural	28.40	A99892-ND	.35	7.87	22.29	—	—	—	2058299-3
	2	Black	12.40	A99893-ND	.27	6.21	17.60	—	—	—	1-2058299-1
	4	Black	20.40	A99894-ND	.32	7.25	20.53	—	—	—	1-2058299-2
	6	Black	28.40	A99895-ND	.35	7.87	22.29	—	—	—	1-2058299-3
Contacts											
Blade Contact 18 ~ 22 AWG, Tin				A99896CT-ND	.12	2.72	7.71	A99896TR-ND	5,000	60.35/M	2058301-1
Socket Contact 18 ~ 22 AWG, Tin				A99897CT-ND	.11	2.40	6.80	A99897TR-ND	5,000	53.23/M	2058302-1
Tool											
Hand Tool, PRO-CRIMPER™ III with Die				A99898-ND	495.83	—	—	—	—	—	2063778-1

Poke-In LED Lighting Connectors

The low profile SMT and Through-Hole Poke-In wire connectors are designed for lighting applications. They accept 18, 20 and 22 AWG solid wire, 18 and 20 AWG pre-bond stranded wire, and 18AWG stranded wire. **Applications:** • LED lighting controls • General illumination LED fixtures • Interconnecting strings of printed circuit LED light modules • Various non-lighting applications that require attaching flying leads to printed circuit boards **Electrical:** 250VAC/5A, 250VDC/5A, 1500VAC dielectric withstanding voltage **Mechanical:** • Operating Temperature: -40°C ~ 105°C • Wire Retention: 5 pound minimum **Materials:** • Housing: UL 94-VO rated high temperature resistant thermoplastic • Contacts: Tin over nickel plated copper alloy

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	Tyco Electronics Part No.
1	2 Position SMT	A97618CT-ND	.61	.56	.40	800	275.72	1954097-1
2	1 Position SMT, White	A99133CT-ND	.44	.40	.29	500	124.72	2008563-1
	1 Position SMT, Natural	A101125CT-ND ***NEW!***	.44	.40	.29	500	124.72	2008683-1
3	2 Position Through-Hole	A99380CT-ND	.69	.63	.44	600	232.88	2008106-1
4	1 Position Through-Hole	A99134CT-ND	.48	.44	.32	500	137.14	2008839-1

† For Tape and Reel part number, change CT-ND to TR-ND.

Dimensions in mm

Fig. 1

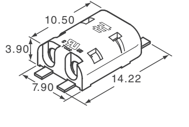

Fig. 2

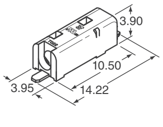

Fig. 3

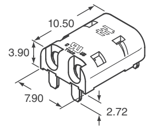

Fig. 4

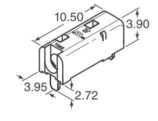

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Tyco Electronics
Authorized Distributor

NEW! IDC SSL Connectors

The IDC SSL connector series are insulation displacement (IDC) SMT and thru-hole wire-to-board connectors designed for quick, tool-less termination of discrete wires onto LED printed circuit boards. These connectors use Tyco Electronics proven insulation displacement technology to provide a robust, stable electrical and mechanical power connection to single or multiple printed circuit boards in solid state lighting and non-lighting applications.

Applications: • General illumination LED fixtures • Connecting strings of pcb LED light modules • LED lighting controls • Non-lighting wire-to-board applications

Electrical: • Maximum Operating Voltage: 250VAC/250VDC • Operating Current: 8 AMPS (18 AWG only) • Dielectric Withstanding Voltage: 1500VAC

Materials: • Housings: 94 VO rated high temperature resistant thermoplastic • Contact: Tin over nickel plated copper alloy

Standards and Specifications: UL 1977

Mechanical: • Operating Temperature: -40°C ~ 105°C • Wire Retention: 5 lbs. minimum

Fig. 1

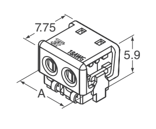

Fig. 2

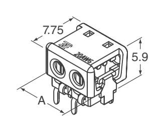

Fig.	No.of Pos.	Dimension A (mm)	Color	Wire Size	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel† Qty.	Pricing	Tyco Electronics Part No.
Closed End IDC SSL Connectors (SMT)											
1	1	5.70	Yellow	18 AWG	A100345CT-ND	.62	12.89	41.26	450	139.26	2106003-1
	2	9.70	Yellow	18 AWG	A100346CT-ND	.74	15.48	49.54	450	167.20	2106003-2
	3	13.70	Yellow	18 AWG	A100347CT-ND	.90	18.67	59.75	450	201.67	2106003-3
	4	17.70	Yellow	18 AWG	A100348CT-ND	1.04	21.61	69.14	450	233.34	2106003-4
	1	5.70	Blue	20 AWG	A100349CT-ND	.62	12.89	41.26	450	139.26	1-2106003-1
	2	9.70	Blue	20 AWG	A100350CT-ND	.74	15.48	49.54	450	167.20	1-2106003-2
	3	13.70	Blue	20 AWG	A100351CT-ND	.90	18.67	59.75	450	201.67	1-2106003-3
	4	17.70	Blue	20 AWG	A100352CT-ND	1.04	21.61	69.14	450	233.34	1-2106003-4
	1	5.70	Green	22 AWG	A100353CT-ND	.62	12.89	41.26	450	139.26	2-2106003-1
	2	9.70	Green	22 AWG	A100354CT-ND	.74	15.48	49.54	450	167.20	2-2106003-2
	3	13.70	Green	22 AWG	A100355CT-ND	.90	18.67	59.75	450	201.67	2-2106003-3
	4	17.70	Green	22 AWG	A100356CT-ND	1.04	21.61	69.14	450	233.34	2-2106003-4
	1	5.70	Red	24 AWG	A100357CT-ND	.62	12.89	41.26	450	139.26	3-2106003-1
	2	9.70	Red	24 AWG	A100358CT-ND	.74	15.48	49.54	450	167.20	3-2106003-2
	3	13.70	Red	24 AWG	A100359CT-ND	.90	18.67	59.75	450	201.67	3-2106003-3
	4	17.70	Red	24 AWG	A100360CT-ND	1.04	21.61	69.14	450	233.34	3-2106003-4
Feed Thru IDC SSL Connectors (SMT)											
1	1	5.70	Yellow	18 AWG	A100361CT-ND	.62	12.89	41.26	450	139.26	2106431-1
	2	9.70	Yellow	18 AWG	A100362CT-ND	.74	15.48	49.54	450	167.20	2106431-2
	3	13.70	Yellow	18 AWG	A100363CT-ND	.90	18.67	59.75	450	201.67	2106431-3
	4	17.70	Yellow	18 AWG	A100364CT-ND	1.04	21.61	69.14	450	233.34	2106431-4
	1	5.70	Blue	20 AWG	A100365CT-ND	.62	12.89	41.26	450	139.26	1-2106431-1
	2	9.70	Blue	20 AWG	A100366CT-ND	.74	15.48	49.54	450	167.20	1-2106431-2
	3	13.70	Blue	20 AWG	A100367CT-ND	.90	18.67	59.75	450	201.67	1-2106431-3
	4	17.70	Blue	20 AWG	A100368CT-ND	1.04	21.61	69.14	450	233.34	1-2106431-4
	1	5.70	Green	22 AWG	A100369CT-ND	.62	12.89	41.26	450	139.26	2-2106431-1
	2	9.70	Green	22 AWG	A100370CT-ND	.74	15.48	49.54	450	167.20	2-2106431-2
	3	13.70	Green	22 AWG	A100371CT-ND	.90	18.67	59.75	450	201.67	2-2106431-3
	4	17.70	Green	22 AWG	A100372CT-ND	1.04	21.61	69.14	450	233.34	2-2106431-4
	1	5.70	Red	24 AWG	A100373CT-ND	.62	12.89	41.26	450	139.26	3-2106431-1
	2	9.70	Red	24 AWG	A100374CT-ND	.74	15.48	49.54	450	167.20	3-2106431-2
	3	13.70	Red	24 AWG	A100375CT-ND	.90	18.67	59.75	450	201.67	3-2106431-3
	4	17.70	Red	24 AWG	A100376CT-ND	1.04	21.61	69.14	450	233.34	3-2106431-4
Closed End IDC SSL Connectors (Thru-Hole)											
2	1	5.70	Yellow	18 AWG	A100377CT-ND	.62	12.89	41.26	350	108.31	2106489-1
	2	9.70	Yellow	18 AWG	A100378CT-ND	.74	15.48	49.54	350	130.05	2106489-2
	3	13.70	Yellow	18 AWG	A100379CT-ND	.90	18.67	59.75	350	156.85	2106489-3
	4	17.70	Yellow	18 AWG	A100380CT-ND	1.04	21.61	69.14	350	181.49	2106489-4
	1	5.70	Blue	20 AWG	A100381CT-ND	.62	12.89	41.26	350	108.31	1-2106489-1
	2	9.70	Blue	20 AWG	A100382CT-ND	.74	15.48	49.54	350	130.05	1-2106489-2
	3	13.70	Blue	20 AWG	A100383CT-ND	.90	18.67	59.75	350	156.85	1-2106489-3
	4	17.70	Blue	20 AWG	A100384CT-ND	1.04	21.61	69.14	350	181.49	1-2106489-4
	1	5.70	Green	22 AWG	A100385CT-ND	.62	12.89	41.26	350	108.31	2-2106489-1
	2	9.70	Green	22 AWG	A100386CT-ND	.74	15.48	49.54	350	130.05	2-2106489-2
	3	13.70	Green	22 AWG	A100387CT-ND	.90	18.67	59.75	350	156.85	2-2106489-3
	4	17.70	Green	22 AWG	A100388CT-ND	1.04	21.61	69.14	350	181.49	2-2106489-4
	1	5.70	Red	24 AWG	A100389CT-ND	.62	12.89	41.26	350	108.31	3-2106489-1
	2	9.70	Red	24 AWG	A100390CT-ND	.74	15.48	49.54	350	130.05	3-2106489-2
	3	13.70	Red	24 AWG	A100391CT-ND	.90	18.67	59.75	350	156.85	3-2106489-3
	4	17.70	Red	24 AWG	A100392CT-ND	1.04	21.61	69.14	350	181.49	3-2106489-4
Feed Thru IDC SSL Connectors (Thru-Hole)											
2	1	5.70	Yellow	18 AWG	A100393CT-ND	.62	12.89	41.26	350	108.31	2106751-1
	2	9.70	Yellow	18 AWG	A100394CT-ND	.74	15.48	49.54	350	130.05	2106751-2
	3	13.70	Yellow	18 AWG	A100395CT-ND	.90	18.67	59.75	350	156.85	2106751-3
	4	17.70	Yellow	18 AWG	A100396CT-ND	1.04	21.61	69.14	350	181.49	2106751-4
	1	5.70	Blue	20 AWG	A100397CT-ND	.62	12.89	41.26	350	108.31	1-2106751-1
	2	9.70	Blue	20 AWG	A100398CT-ND	.74	15.48	49.54	350	130.05	1-2106751-2
	3	13.70	Blue	20 AWG	A100399CT-ND	.90	18.67	59.75	350	156.85	1-2106751-3
	4	17.70	Blue	20 AWG	A100400CT-ND	1.04	21.61	69.14	350	181.49	1-2106751-4
	1	5.70	Green	22 AWG	A100401CT-ND	.62	12.89	41.26	350	108.31	2-2106751-1
	2	9.70	Green	22 AWG	A100402CT-ND	.74	15.48	49.54	350	130.05	2-2106751-2
	3	13.70	Green	22 AWG	A100403CT-ND	.90	18.67	59.75	350	156.85	2-2106751-3
	4	17.70	Green	22 AWG	A100404CT-ND	1.04	21.61	69.14	350	181.49	2-2106751-4
	1	5.70	Red	24 AWG	A100405CT-ND	.62	12.89	41.26	350	108.31	3-2106751-1
	2	9.70	Red	24 AWG	A100406CT-ND	.74	15.48	49.54	350	130.05	3-2106751-2
	3	13.70	Red	24 AWG	A100407CT-ND	.90	18.67	59.75	350	156.85	3-2106751-3
	4	17.70	Red	24 AWG	A100408CT-ND	1.04	21.61	69.14	350	181.49	3-2106751-4

† For Tape and Reel part number, change CT-ND to TR-ND.

NEW! SlimSeal SSL Connectors

The SlimSeal SSL connectors are low profile, single row connectors developed for indoor and outdoor LED lighting applications. These connectors provide low power, sealed solutions for free hanging, wire-to-wire interconnects and for robust, stable electrical and mechanical wire-to-board connections used in solid state lighting.

Fig. 1

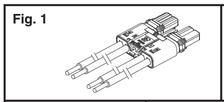

Fig. 2

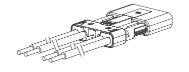

Fig. 3

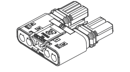

Fig. 4

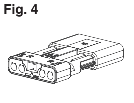

Fig. 5

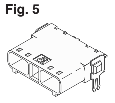

Fig. 6

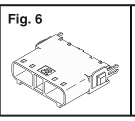

Fig. 7

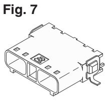

Fig. 8

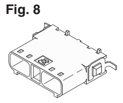

Fig.	No.of Positions	Color/ Contact Finish	Wire Size	Digi-Key Part No.	Pricing 1	25	100	Tyco Electronics Part No.
Plug Cable Assembly								
1	2	Tin	18 AWG	A101048-ND	3.05	69.01	195.54	2106378-2
	3	Tin	18 AWG	A101049-ND	3.60	81.45	230.77	2106378-3
	4	Tin	18 AWG	A101050-ND	4.14	93.62	265.26	2106378-4
Receptacle Cable Assembly								
2	2	Tin	18 AWG	A101051-ND	2.62	59.23	167.82	2106391-2
	3	Tin	18 AWG	A101052-ND	3.10	70.14	198.73	2106391-3
	4	Tin	18 AWG	A101053-ND	3.58	81.05	229.64	2106391-4
Free Hanging Plug								
3	2	Black	—	A101026-ND	1.83	41.40	117.30	2106135-2
	3	Black	—	A101027-ND	1.91	43.20	122.40	2106135-3
	4	Black	—	A101028-ND	2.04	46.20	130.90	2106135-4
Receptacle Free Hanging								
4	2	Black	—	A101029-ND	1.70	38.40	108.80	2106136-2
	3	Black	—	A101030-ND	1.80	40.80	115.60	2106136-3
	4	Black	—	A101031-ND	1.86	42.00	119.00	2106136-4
Right Angle Header - Thru-Hole								
5	2	Black	—	A101041-ND	1.35	30.60	86.70	2106111-2
	3	Black	—	A101042-ND	1.51	34.20	96.90	2106111-4
	4	Black	—	A101043-ND	1.64	37.20	105.40	2106111-6
Vertical Header - Thru-Hole								
6	2	Black	—	A101035-ND	1.38	31.20	88.40	2106112-2
	3	Black	—	A101036-ND	1.54	34.80	98.60	2106112-4
	4	Black	—	A101037-ND	1.67	37.80	107.10	2106112-6
Right Angle Header - SMT								
7	2	Black	—	A101038-ND	1.43	32.40	91.80	2106056-2
	3	Black	—	A101039-ND	1.56	35.40	100.30	2106056-5
	4	Black	—	A101040-ND	1.70	38.40	108.80	2106056-8
Vertical Header - SMT								
8	2	Black	—	A101032CT-ND†	1.67	37.80	—	2106053-2
	2	Black	—	A101032TR-ND◊		122.85/130		2106053-2
	3	Black	—	A101033CT-ND†	1.80	40.80	—	2106053-4
	3	Black	—	A101033TR-ND◊		132.60/130		2106053-4
	4	Black	—	A101034CT-ND†	1.96	44.40	125.80	2106053-6
	4	Black	—	A101034TR-ND◊		277.50/250		2106053-6
Contacts								
—	—	Tin	18-20 AWG	A101044CT-ND†	.17	3.83	10.85	2106123-1
	—	Tin	18-20 AWG	A101044TR-ND◊		2757.46/32,000		2106123-1
	—	Tin	22-24 AWG	A101045-ND	.17	3.83	10.85	1-2106123-1
	—	Tin	18-20 AWG	A101046CT-ND†	.20	4.59	13.01	2106124-2
	—	Tin	18-20 AWG	A101046TR-ND◊		826.42/8,000		2106124-2

† Cut Tape ◊ Tape and Reel

NEW! Low Voltage DC Grid Interconnects

LVDC Grid Interconnects are low voltage direct current (DC) connectors and cable assemblies developed to transfer power to and from lighting fixtures, power supplies, controls and other electrical devices intended for use in an EMerge Alliance® compliant system. LVDC Grid Interconnects were designed specifically to meet the requirements of the EMerge Alliance® Standard, a new power distribution platform for the use of safe, low voltage DC Power in commercial interiors. **System Advantages:** Provides a plug and play standard for integrated management and control of more energy efficient and individually controllable devices such as LED lighting and other digital devices.

Mechanical: • Environmental Operating Temperature: -55°C ~ 85°C **Electrical**: • Operating current: Up to 4.1 Amps • Operating Voltage: 24 Volts DC (nominal) **Materials**: • Housings: Thermoplastic • Contacts: Phosphor Bronze • Finish: Tin over nickel **Standards and Specifications**: • EMerge Alliance® System Standard (Pending) • UL2577 • ANSI/NFPA 70 • Application Specification: 114-13275 • Product Specification: 108-2414

Fig. 1

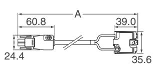

Fig. 2

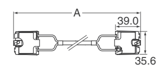

Fig. 3

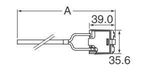

Fig. 5

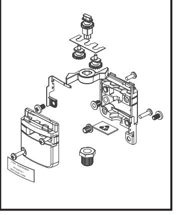

Fig. 4

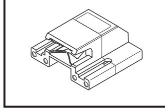

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Tyco Electronics Part No.
1	Cable Assembly Power Feed	1524.0	A100934-ND	57.66	50.46	40.37	2106725-1
	Cable Assembly Power Feed	3048.0	A100935-ND	65.44	57.26	45.81	2106725-2
	Cable Assembly Power Feed	4572.0	A100936-ND	73.20	64.05	51.24	2106725-3
	Cable Assembly Power Feed	6096.0	A100937-ND	80.96	70.84	56.68	2106725-4
2	Cable Bus Bar to Bus Bar	914.4	A100938-ND	59.24	51.84	41.47	2106728-1
3	Cable Assembly Device-Out	1524.0	A100939-ND	31.02	27.15	21.72	2106718-1
	Cable Assembly Device-Out	3048.0	A100940-ND	33.04	28.91	23.13	2106718-2
4	Connector External Bus Bar - 18 AWG	—	A100941-ND	10.32	9.03	7.23	2106739-1
5	Connector Internal Bus Bar - 18 AWG	—	A100942-ND	42.28	37.00	29.60	2106710-1

APEM Q Series LED Indicators

APEM's LED indicators are designed and manufactured in the UK. The range comprises of seven different panel cut-out sizes (6mm, 8mm, 12mm, 14mm, 16mm, 19mm, and 22mm), and three different bezel shapes; prominent, recessed and flush manufactured from high quality brass either finished in Bright Chrome or Black Chrome. Terminations are 2.0/2.8mm faston/solder lugs. The LEDs are available in five color options, standard diffused red, green, yellow, blue and white, plus Tri-color options in 8mm, 14mm, 16mm, 19mm, and 22mm. The LED indicators are available with integral resistors to permit direct connection to 12V, 24V, and 110V. **Features:** • Operating Temperature Range: -40°C ~ 85°C • IP67 Panel Seal

Fig. 1 — Prominent Bezel

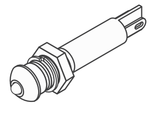

Fig. 2 — Recessed Bezel

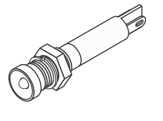

Fig. 3 — Flushed Bezel

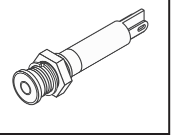

NEW! Q Series LED Indicator Sample Kit

Kit includes 1 each of LED Indicators denoted. Also includes plastic storage case, bin storage guide and hardware.

§ 679-2304-ND 17 Pieces Total **$75.60**

Fig.	Voltage (V)	LED Color	Digi-Key Part No.	Price Each			APEM Part No.
				1	25	100	
Black Chrome Finish - 6mm Mounting Hole							
1	12	Red	679-1425-ND	7.82	7.13	6.44	Q6P1BXXR12E
	12	Green	679-1426-ND	7.82	7.13	6.44	Q6P1BXXG12E
	12	Yellow	679-1427-ND	7.82	7.13	6.44	Q6P1BXXY12E
	12	Blue	679-1428-ND	10.61	9.68	8.74	Q6P1BXXB12E
	12	White	679-1429-ND	10.81	9.86	8.91	Q6P1BXXW12E
	24	Red	679-1430-ND§	7.82	7.13	6.44	Q6P1BXXR24E
	24	Green	679-1431-ND	7.82	7.13	6.44	Q6P1BXXG24E
	24	Yellow	679-1432-ND	7.82	7.13	6.44	Q6P1BXXY24E
	24	Blue	679-1433-ND	10.61	9.68	8.74	Q6P1BXXB24E
	24	White	679-1434-ND	10.81	9.86	8.91	Q6P1BXXW24E
2	12	Red	679-1435-ND	7.82	7.13	6.44	Q6R1BXXR12E
	12	Green	679-1436-ND	7.82	7.13	6.44	Q6R1BXXG12E
	12	Yellow	679-1437-ND	7.82	7.13	6.44	Q6R1BXXY12E
	12	Blue	679-1438-ND	10.61	9.68	8.74	Q6R1BXXB12E
	12	White	679-1439-ND	10.81	9.86	8.91	Q6R1BXXW12E
	24	Red	679-1440-ND	7.82	7.13	6.44	Q6R1BXXR24E
	24	Green	679-1441-ND§	7.82	7.13	6.44	Q6R1BXXG24E
	24	Yellow	679-1442-ND	7.82	7.13	6.44	Q6R1BXXY24E
	24	Blue	679-1443-ND	10.61	9.68	8.74	Q6R1BXXB24E
	24	White	679-1444-ND	10.81	9.86	8.91	Q6R1BXXW24E
3	12	Red	679-1445-ND	7.82	7.13	6.44	Q6F1BXXR12E
	12	Green	679-1446-ND	7.82	7.13	6.44	Q6F1BXXG12E
	12	Yellow	679-1447-ND	7.82	7.13	6.44	Q6F1BXXY12E
	12	Blue	679-1448-ND	10.61	9.68	8.74	Q6F1BXXB12E
	12	White	679-1449-ND	10.81	9.86	8.91	Q6F1BXXW12E
	24	Red	679-1450-ND	7.82	7.13	6.44	Q6F1BXXR24E
	24	Green	679-1451-ND§	7.82	7.13	6.44	Q6F1BXXG24E
	24	Yellow	679-1452-ND	7.82	7.13	6.44	Q6F1BXXY24E
	24	Blue	679-1453-ND	10.61	9.68	8.74	Q6F1BXXB24E
	24	White	679-1454-ND	10.81	9.86	8.91	Q6F1BXXW24E
Black Chrome Finish - 8mm Mounting Hole							
1	12	Red	679-1485-ND	8.06	7.35	6.64	Q8P1BXXR12E
	12	Green	679-1486-ND	8.06	7.35	6.64	Q8P1BXXG12E
	12	Yellow	679-1487-ND	8.06	7.35	6.64	Q8P1BXXY12E
	12	Blue	679-1488-ND	10.81	9.86	8.91	Q8P1BXXB12E
	12	White	679-1489-ND	11.05	10.08	9.10	Q8P1BXXW12E
	12	R/Y/G	679-1577-ND	9.66	8.81	7.96	Q8P1BZZRYG12E
	24	Red	679-1490-ND	8.06	7.35	6.64	Q8P1BXXR24E
	24	Green	679-1491-ND	8.06	7.35	6.64	Q8P1BXXG24E
	24	Yellow	679-1492-ND	8.06	7.35	6.64	Q8P1BXXY24E
	24	Blue	679-1493-ND	10.81	9.86	8.91	Q8P1BXXB24E
	24	White	679-1494-ND	11.05	10.08	9.10	Q8P1BXXW24E
	24	R/Y/G	679-1578-ND§	9.66	8.81	7.96	Q8P1BZZRYG24E
	110	Red	679-1495-ND	9.89	9.03	8.15	Q8P1BXXR110E
	110	Green	679-1496-ND	9.89	9.03	8.15	Q8P1BXXG110E
	110	Yellow	679-1497-ND	9.89	9.03	8.15	Q8P1BXXY110E
	110	Blue	679-1498-ND	12.68	11.57	10.45	Q8P1BXXB110E
	110	White	679-1499-ND	12.89	11.75	10.62	Q8P1BXXW110E
2	12	Red	679-1500-ND	8.06	7.35	6.64	Q8R1BXXR12E
	12	Green	679-1501-ND	8.06	7.35	6.64	Q8R1BXXG12E
	12	Yellow	679-1502-ND	8.06	7.35	6.64	Q8R1BXXY12E
	12	Blue	679-1503-ND	10.81	9.86	8.91	Q8R1BXXB12E
	12	White	679-1504-ND	11.05	10.08	9.10	Q8R1BXXW12E
	24	Red	679-1505-ND	9.08	8.28	7.48	Q8R1BXXR24E
	24	Green	679-1506-ND	8.06	7.35	6.64	Q8R1BXXG24E
	24	Yellow	679-1507-ND§	8.06	7.35	6.64	Q8R1BXXY24E
	24	Blue	679-1508-ND	10.81	9.86	8.91	Q8R1BXXB24E
	24	White	679-1509-ND	11.05	10.08	9.10	Q8R1BXXW24E
	110	Red	679-1510-ND	9.89	9.03	8.15	Q8R1BXXR110E
	110	Green	679-1511-ND	9.89	9.03	8.15	Q8R1BXXG110E
	110	Yellow	679-1512-ND	9.89	9.03	8.15	Q8R1BXXY110E
	110	Blue	679-1513-ND	12.68	11.57	10.45	Q8R1BXXB110E
	110	White	679-1514-ND	12.89	11.75	10.62	Q8R1BXXW110E
3	12	Red	679-1515-ND§	8.06	7.35	6.64	Q8F1BXXR12E
	12	Green	679-1516-ND	8.06	7.35	6.64	Q8F1BXXG12E
	12	Yellow	679-1517-ND	8.06	7.35	6.64	Q8F1BXXY12E
	12	Blue	679-1518-ND	10.81	9.86	8.91	Q8F1BXXB12E
	12	White	679-1519-ND	11.05	10.08	9.10	Q8F1BXXW12E
	24	Red	679-1520-ND	8.06	7.35	6.64	Q8F1BXXR24E
	24	Green	679-1521-ND	8.06	7.35	6.64	Q8F1BXXG24E
	24	Yellow	679-1522-ND	8.06	7.35	6.64	Q8F1BXXY24E
	24	Blue	679-1523-ND	10.81	9.86	8.91	Q8F1BXXB24E
	24	White	679-1524-ND	11.05	10.08	9.10	Q8F1BXXW24E
	110	Red	679-1525-ND	9.89	9.03	8.15	Q8F1BXXR110E
	110	Green	679-1526-ND	9.89	9.03	8.15	Q8F1BXXG110E
	110	Yellow	679-1527-ND	9.89	9.03	8.15	Q8F1BXXY110E
	110	Blue	679-1528-ND	12.68	11.57	10.45	Q8F1BXXB110E
	110	White	679-1529-ND	12.89	11.75	10.62	Q8F1BXXW110E
Black Chrome Finish - 12mm Mounting Hole							
1	12	Red	679-1594-ND	11.83	10.79	9.75	Q12P1BXXR12E
	12	Green	679-1595-ND	11.83	10.79	9.75	Q12P1BXXG12E
	12	Yellow	679-1596-ND	11.83	10.79	9.75	Q12P1BXXY12E
	12	Blue	679-1597-ND	15.27	13.92	12.58	Q12P1BXXB12E
	12	White	679-1598-ND	16.15	14.73	13.30	Q12P1BXXW12E
	24	Red	679-1599-ND	11.83	10.79	9.75	Q12P1BXXR24E
	24	Green	679-1600-ND	11.83	10.79	9.75	Q12P1BXXG24E
	24	Yellow	679-1601-ND	11.83	10.79	9.75	Q12P1BXXY24E
	24	Blue	679-1602-ND	15.27	13.92	12.58	Q12P1BXXB24E
	24	White	679-1603-ND	16.15	14.73	13.30	Q12P1BXXW24E
1	110	Red	679-1604-ND	12.95	11.82	10.67	Q12P1BXXR110E
	110	Green	679-1605-ND	12.95	11.82	10.67	Q12P1BXXG110E
	110	Yellow	679-1606-ND	18.43	16.81	15.18	Q12P1BXXY110E
	110	Blue	679-1607-ND	16.32	14.88	13.44	Q12P1BXXB110E
	110	White	679-1608-ND	17.31	15.78	14.26	Q12P1BXXW110E
Black Chrome Finish - 14mm Mounting Hole							
1	12	Red	679-1609-ND§	8.57	7.82	7.06	Q14P1BXXR12E
	12	Green	679-1610-ND	8.57	7.82	7.06	Q14P1BXXG12E
	12	Yellow	679-1611-ND	8.57	7.82	7.06	Q14P1BXXY12E
	12	Blue	679-1612-ND	14.21	12.96	11.71	Q14P1BXXB12E
	12	White	679-1613-ND	14.72	13.43	12.13	Q14P1BXXW12E
	12	R/Y/G	679-1671-ND	9.79	8.93	8.07	Q14P1BZZRYG12E
	24	Red	679-1614-ND	8.57	7.82	7.06	Q14P1BXXR24E
	24	Green	679-1615-ND§	8.57	7.82	7.06	Q14P1BXXG24E
	24	Yellow	679-1616-ND	8.57	7.82	7.06	Q14P1BXXY24E
	24	Blue	679-1617-ND	14.21	12.96	11.71	Q14P1BXXB24E
	24	White	679-1618-ND	14.72	13.43	12.13	Q14P1BXXW24E
	24	R/Y/G	679-1672-ND	9.79	8.93	8.07	Q14P1BZZRYG24E
	110	Red	679-1619-ND	11.90	10.85	9.80	Q14P1BXXR110E
	110	Green	679-1620-ND	11.90	10.85	9.80	Q14P1BXXG110E
	110	Yellow	679-1621-ND	11.90	10.85	9.80	Q14P1BXXY110E
	110	Blue	679-1622-ND	16.29	14.85	13.42	Q14P1BXXB110E
	110	White	679-1623-ND	16.80	15.32	13.84	Q14P1BXXW110E
3	12	Red	679-1624-ND	8.57	7.82	7.06	Q14F1BXXR12E
	12	Green	679-1625-ND	9.79	8.93	8.07	Q14F1BXXG12E
	12	Yellow	679-1626-ND§	8.57	7.82	7.06	Q14F1BXXY12E
	12	Blue	679-1627-ND	14.21	12.96	11.71	Q14F1BXXB12E
	12	White	679-1628-ND	14.72	13.43	12.13	Q14F1BXXW12E
	24	Red	679-1629-ND	8.57	7.82	7.06	Q14F1BXXR24E
	24	Green	679-1630-ND	8.57	7.82	7.06	Q14F1BXXG24E
	24	Yellow	679-1631-ND	8.57	7.82	7.06	Q14F1BXXY24E
	24	Blue	679-1632-ND	14.21	12.96	11.71	Q14F1BXXB24E
	24	White	679-1633-ND	14.72	13.43	12.13	Q14F1BXXW24E
	110	Red	679-1634-ND	11.90	10.85	9.80	Q14F1BXXR110E
	110	Green	679-1635-ND	11.90	10.85	9.80	Q14F1BXXG110E
	110	Yellow	679-1636-ND	11.90	10.85	9.80	Q14F1BXXY110E
	110	Blue	679-1637-ND	16.29	14.85	13.42	Q14F1BXXB110E
	110	White	679-1638-ND	16.80	15.32	13.84	Q14F1BXXW110E
Black Chrome Finish - 16mm Mounting Hole							
1	12	Red	679-1688-ND	14.14	12.90	11.65	Q16P1BXXR12E
	12	Green	679-1689-ND	14.14	12.90	11.65	Q16P1BXXG12E
	12	Yellow	679-1690-ND§	14.14	12.90	11.65	Q16P1BXXY12E
	12	Blue	679-1691-ND	18.09	16.50	14.90	Q16P1BXXB12E
	12	White	679-1692-ND	19.69	17.95	16.22	Q16P1BXXW12E
	12	R/Y/G	679-1704-ND	15.81	14.42	13.02	Q16P1BZZRYG12E
	24	Red	679-1693-ND	14.14	12.90	11.65	Q16P1BXXR24E
	24	Green	679-1694-ND	14.14	12.90	11.65	Q16P1BXXG24E
	24	Yellow	679-1695-ND	14.14	12.90	11.65	Q16P1BXXY24E
	24	Blue	679-1696-ND	18.09	16.50	14.90	Q16P1BXXB24E
	24	White	679-1697-ND	19.69	17.95	16.22	Q16P1BXXW24E
	24	R/Y/G	679-1706-ND	15.81	14.42	13.02	Q16P1BZZRYG24E
	110	Red	679-1698-ND	16.69	15.23	13.75	Q16P1BXXR110E
	110	Green	679-1699-ND	16.69	15.23	13.75	Q16P1BXXG110E
	110	Yellow	679-1700-ND	16.69	15.23	13.75	Q16P1BXXY110E
	110	Blue	679-1701-ND	20.67	18.85	17.03	Q16P1BXXB110E
	110	White	679-1702-ND	22.24	20.28	18.32	Q16P1BXXW110E
3	12	Red	679-1722-ND	14.14	12.90	11.65	Q16F1BXXR12E
	12	Green	679-1723-ND	14.14	12.90	11.65	Q16F1BXXG12E
	12	Yellow	679-1724-ND	14.14	12.90	11.65	Q16F1BXXY12E
	12	Blue	679-1725-ND	18.09	16.50	14.90	Q16F1BXXB12E
	12	White	679-1726-ND	19.69	17.95	16.22	Q16F1BXXW12E
	24	Red	679-1727-ND	14.14	12.90	11.65	Q16F1BXXR24E
	24	Green	679-1728-ND	14.14	12.90	11.65	Q16F1BXXG24E
	24	Yellow	679-1729-ND	14.14	12.90	11.65	Q16F1BXXY24E
	24	Blue	679-1730-ND	18.09	16.50	14.90	Q16F1BXXB24E
	24	White	679-1731-ND	19.69	17.95	16.22	Q16F1BXXW24E
	110	Red	679-1732-ND	16.69	15.23	13.75	Q16F1BXXR110E
	110	Green	679-1733-ND	16.69	15.23	13.75	Q16F1BXXG110E
	110	Yellow	679-1734-ND	16.69	15.23	13.75	Q16F1BXXY110E
	110	Blue	679-1735-ND	20.67	18.85	17.03	Q16F1BXXB110E
	110	White	679-1736-ND	22.24	20.28	18.32	Q16F1BXXW110E
Black Chrome Finish - 19mm Mounting Hole							
1	12	Red	679-1752-ND	18.09	16.50	14.90	Q19P1BXXR12E
	12	Green	679-1753-ND	18.09	16.50	14.90	Q19P1BXXG12E
	12	Yellow	679-1754-ND	18.09	16.50	14.90	Q19P1BXXY12E
	12	Blue	679-1755-ND	22.07	20.12	18.18	Q19P1BXXB12E
	12	White	679-1756-ND	23.66	21.58	19.49	Q19P1BXXW12E
	12	R/Y/G	679-1768-ND	19.79	18.05	16.30	Q19P1BZZRYG12E
	24	Red	679-1757-ND	18.09	16.50	14.90	Q19P1BXXR24E
	24	Green	679-1758-ND	18.09	16.50	14.90	Q19P1BXXG24E
	24	Yellow	679-1759-ND	18.09	16.50	14.90	Q19P1BXXY24E
	24	Blue	679-1760-ND	22.07	20.12	18.18	Q19P1BXXB24E
	24	White	679-1761-ND	23.66	21.58	19.49	Q19P1BXXW24E
	24	R/Y/G	679-1770-ND	19.79	18.05	16.30	Q19P1BZZRYG24E
	110	Red	679-1762-ND	20.67	18.85	17.03	Q19P1BXXR110E
	110	Green	679-1763-ND	20.67	18.85	17.03	Q19P1BXXG110E
	110	Yellow	679-1764-ND	20.67	18.85	17.03	Q19P1BXXY110E
	110	Blue	679-1765-ND	24.65	22.48	20.30	Q19P1BXXB110E
	110	White	679-1766-ND	26.21	23.91	21.59	Q19P1BXXW110E

(Continued)

APEM Q Series LED Indicators *(Cont.)*

Fig.	Voltage (V)	LED Color	Digi-Key Part No.	Price Each			APEM Part No.
				1	25	100	
			Black Chrome Finish - 22mm Mounting Hole				
1	12	Red	679-1786-ND	24.99	22.79	20.58	Q22P1BXXR12E
	12	Green	679-1787-ND	24.99	22.79	20.58	Q22P1BXXG12E
	12	Yellow	679-1788-ND	24.99	22.79	20.58	Q22P1BXXY12E
	12	Blue	679-1789-ND	43.52	39.68	35.84	Q22P1BXXB12E
	12	White	679-1790-ND	29.51	26.91	24.31	Q22P1BXXW12E
	12	R/Y/G	679-1802-ND	23.77	21.67	19.58	Q22P1BZZRYG12E
	24	Red	679-1791-ND	24.99	22.79	20.58	Q22P1BXXR24E
	24	Green	679-1792-ND	24.99	22.79	20.58	Q22P1BXXG24E
	24	Yellow	679-1793-ND	24.99	22.79	20.58	Q22P1BXXY24E
	24	Blue	679-1794-ND	43.52	39.68	35.84	Q22P1BXXB24E
	24	White	679-1795-ND	29.51	26.91	24.31	Q22P1BXXW24E
	24	R/Y/G	679-1804-ND	23.77	21.67	19.58	Q22P1BZZRYG24E
	110	Red	679-1796-ND	27.54	25.11	22.68	Q22P1BXXR110E
	110	Green	679-1797-ND	27.54	25.11	22.68	Q22P1BXXG110E
	110	Yellow	679-1798-ND	27.54	25.11	22.68	Q22P1BXXY110E
	110	Blue	679-1799-ND	46.10	42.04	37.97	Q22P1BXXB110E
	110	White	679-1800-ND	31.72	28.93	26.13	Q22P1BXXW110E
3	12	Red	679-1820-ND	24.99	22.79	20.58	Q22F1BXXR12E
	12	Green	679-1821-ND	24.99	22.79	20.58	Q22F1BXXG12E
	12	Yellow	679-1822-ND	24.99	22.79	20.58	Q22F1BXXY12E
	12	Blue	679-1823-ND	43.52	39.68	35.84	Q22F1BXXB12E
	12	White	679-1824-ND	29.51	26.91	24.31	Q22F1BXXW12E
	24	Red	679-1825-ND	24.99	22.79	20.58	Q22F1BXXR24E
	24	Green	679-1826-ND	24.99	22.79	20.58	Q22F1BXXG24E
	24	Yellow	679-1827-ND	24.99	22.79	20.58	Q22F1BXXY24E
	24	Blue	679-1828-ND	43.52	39.68	35.84	Q22F1BXXB24E
	24	White	679-1829-ND	29.51	26.91	24.31	Q22F1BXXW24E
	110	Red	679-1830-ND	27.54	25.11	22.68	Q22F1BXXR110E
	110	Green	679-1831-ND	27.54	25.11	22.68	Q22F1BXXG110E
	110	Yellow	679-1832-ND	27.54	25.11	22.68	Q22F1BXXY110E
	110	Blue	679-1833-ND	46.10	42.04	37.97	Q22F1BXXB110E
	110	White	679-1834-ND	31.72	28.93	26.13	Q22F1BXXW110E
			Bright Chrome Finish - 6mm Mounting Hole				
1	12	Red	679-1455-ND	7.82	7.13	6.44	Q6P1CXXR12E
	12	Green	679-1456-ND	7.82	7.13	6.44	Q6P1CXXG12E
	12	Yellow	679-1457-ND	7.82	7.13	6.44	Q6P1CXXY12E
	12	Blue	679-1458-ND	10.61	9.68	8.74	Q6P1CXXB12E
	12	White	679-1459-ND	10.81	9.86	8.91	Q6P1CXXW12E
	24	Red	679-1460-ND	7.82	7.13	6.44	Q6P1CXXR24E
	24	Green	679-1461-ND	7.82	7.13	6.44	Q6P1CXXG24E
	24	Yellow	679-1462-ND	7.82	7.13	6.44	Q6P1CXXY24E
	24	Blue	679-1463-ND	10.61	9.68	8.74	Q6P1CXXB24E
	24	White	679-1464-ND	10.81	9.86	8.91	Q6P1CXXW24E
2	12	Red	679-1465-ND	7.82	7.13	6.44	Q6R1CXXR12E
	12	Green	679-1466-ND	7.82	7.13	6.44	Q6R1CXXG12E
	12	Yellow	679-1467-ND	7.82	7.13	6.44	Q6R1CXXY12E
	12	Blue	679-1468-ND	10.61	9.68	8.74	Q6R1CXXB12E
	12	White	679-1469-ND	10.81	9.86	8.91	Q6R1CXXW12E
	24	Red	679-1470-ND	7.82	7.13	6.44	Q6R1CXXR24E
	24	Green	679-1471-ND	7.82	7.13	6.44	Q6R1CXXG24E
	24	Yellow	679-1472-ND§	7.82	7.13	6.44	Q6R1CXXY24E
	24	Blue	679-1473-ND	10.61	9.68	8.74	Q6R1CXXB24E
	24	White	679-1474-ND	10.81	9.86	8.91	Q6R1CXXW24E
3	12	Red	679-1475-ND	7.82	7.13	6.44	Q6F1CXXR12E
	12	Green	679-1476-ND§	7.82	7.13	6.44	Q6F1CXXG12E
	12	Yellow	679-1477-ND	7.82	7.13	6.44	Q6F1CXXY12E
	12	Blue	679-1478-ND	10.61	9.68	8.74	Q6F1CXXB12E
	12	White	679-1479-ND	10.81	9.86	8.91	Q6F1CXXW12E
	24	Red	679-1480-ND	7.82	7.13	6.44	Q6F1CXXR24E
	24	Green	679-1481-ND	7.82	7.13	6.44	Q6F1CXXG24E
	24	Yellow	679-1482-ND	7.82	7.13	6.44	Q6F1CXXY24E
	24	Blue	679-1483-ND	10.61	9.68	8.74	Q6F1CXXB24E
	24	White	679-1484-ND	10.81	9.86	8.91	Q6F1CXXW24E
			Bright Chrome Finish - 8mm Mounting Hole				
1	12	Red	679-1530-ND	8.06	7.35	6.64	Q8P1CXXR12E
	12	Green	679-1531-ND	8.06	7.35	6.64	Q8P1CXXG12E
	12	Yellow	679-1532-ND	8.06	7.35	6.64	Q8P1CXXY12E
	12	Blue	679-1533-ND	10.81	9.86	8.91	Q8P1CXXB12E
	12	White	679-1534-ND	11.05	10.08	9.10	Q8P1CXXW12E
	12	R/Y/G	679-1575-ND	9.66	8.81	7.96	Q8P1CZZRYG12E
	24	Red	679-1535-ND	8.06	7.35	6.64	Q8P1CXXR24E
	24	Green	679-1536-ND	8.06	7.35	6.64	Q8P1CXXG24E
	24	Yellow	679-1537-ND	8.06	7.35	6.64	Q8P1CXXY24E
	24	Blue	679-1538-ND	10.81	9.86	8.91	Q8P1CXXB24E
	24	White	679-1539-ND	11.05	10.08	9.10	Q8P1CXXW24E
	24	R/Y/G	679-1576-ND	9.66	8.81	7.96	Q8P1CZZRYG24E
	110	Red	679-1540-ND	9.89	9.03	8.15	Q8P1CXXR110E
	110	Green	679-1541-ND	9.89	9.03	8.15	Q8P1CXXG110E
	110	Yellow	679-1542-ND	9.89	9.03	8.15	Q8P1CXXY110E
	110	Blue	679-1543-ND	12.68	11.57	10.45	Q8P1CXXB110E
	110	White	679-1544-ND	12.89	11.75	10.62	Q8P1CXXW110E
2	12	Red	679-1545-ND	8.06	7.35	6.64	Q8R1CXXR12E
	12	Green	679-1546-ND	8.06	7.35	6.64	Q8R1CXXG12E
	12	Yellow	679-1547-ND	8.06	7.35	6.64	Q8R1CXXY12E
	12	Blue	679-1548-ND	10.81	9.86	8.91	Q8R1CXXB12E
	12	White	679-1549-ND	11.05	10.08	9.10	Q8R1CXXW12E
	24	Red	679-1550-ND	8.06	7.35	6.64	Q8R1CXXR24E
	24	Green	679-1551-ND	8.06	7.35	6.64	Q8R1CXXG24E
	24	Yellow	679-1552-ND	8.06	7.35	6.64	Q8R1CXXY24E
	24	Blue	679-1553-ND	10.81	9.86	8.91	Q8R1CXXB24E
	24	White	679-1554-ND	11.05	10.08	9.10	Q8R1CXXW24E
	110	Red	679-1555-ND	9.89	9.03	8.15	Q8R1CXXR110E
	110	Green	679-1556-ND	9.89	9.03	8.15	Q8R1CXXG110E
	110	Yellow	679-1557-ND	9.89	9.03	8.15	Q8R1CXXY110E
	110	Blue	679-1558-ND	12.68	11.57	10.45	Q8R1CXXB110E
	110	White	679-1559-ND	12.89	11.75	10.62	Q8R1CXXW110E
3	12	Red	679-1560-ND	8.06	7.35	6.64	Q8F1CXXR12E
	12	Green	679-1561-ND	8.06	7.35	6.64	Q8F1CXXG12E
	12	Yellow	679-1562-ND	8.06	7.35	6.64	Q8F1CXXY12E
	12	Blue	679-1563-ND	10.81	9.86	8.91	Q8F1CXXB12E
	12	White	679-1564-ND	11.05	10.08	9.10	Q8F1CXXW12E
	24	Red	679-1565-ND	8.06	7.35	6.64	Q8F1CXXR24E
	24	Green	679-1566-ND	8.06	7.35	6.64	Q8F1CXXG24E
	24	Yellow	679-1567-ND	8.06	7.35	6.64	Q8F1CXXY24E
	24	Blue	679-1568-ND	10.81	9.86	8.91	Q8F1CXXB24E
	24	White	679-1569-ND§	11.05	10.08	9.10	Q8F1CXXW24E
3	110	Red	679-1570-ND§	9.89	9.03	8.15	Q8F1CXXR110E
	110	Green	679-1571-ND	9.89	9.03	8.15	Q8F1CXXG110E
	110	Yellow	679-1572-ND	9.89	9.03	8.15	Q8F1CXXY110E
	110	Blue	679-1573-ND	12.68	11.57	10.45	Q8F1CXXB110E
	110	White	679-1574-ND	12.89	11.75	10.62	Q8F1CXXW110E
			Bright Chrome Finish - 12mm Mounting Hole				
1	12	Red	679-1579-ND	11.83	10.79	9.75	Q12P1CXXR12E
	12	Green	679-1580-ND	11.83	10.79	9.75	Q12P1CXXG12E
	12	Yellow	679-1581-ND	11.83	10.79	9.75	Q12P1CXXY12E
	12	Blue	679-1582-ND	15.27	13.92	12.58	Q12P1CXXB12E
	12	White	679-1583-ND	16.15	14.73	13.30	Q12P1CXXW12E
	24	Red	679-1584-ND	11.83	10.79	9.75	Q12P1CXXR24E
	24	Green	679-1585-ND	11.83	10.79	9.75	Q12P1CXXG24E
	24	Yellow	679-1586-ND	11.83	10.79	9.75	Q12P1CXXY24E
	24	Blue	679-1587-ND	15.27	13.92	12.58	Q12P1CXXB24E
	24	White	679-1588-ND	16.15	14.73	13.30	Q12P1CXXW24E
	110	Red	679-1589-ND	14.11	12.87	11.62	Q12P1CXXR110E
	110	Green	679-1590-ND	12.95	11.82	10.67	Q12P1CXXG110E
	110	Yellow	679-1591-ND	16.35	14.92	13.47	Q12P1CXXY110E
	110	Blue	679-1592-ND	16.42	14.98	13.53	Q12P1CXXB110E
	110	White	679-1593-ND	13.50	12.31	11.12	Q12P1CXXW110E
			Bright Chrome Finish - 14mm Mounting Hole				
1	12	Red	679-1639-ND	8.57	7.82	7.06	Q14P1CXXR12E
	12	Green	679-1640-ND	8.57	7.82	7.06	Q14P1CXXG12E
	12	Yellow	679-1641-ND	8.57	7.82	7.06	Q14P1CXXY12E
	12	Blue	679-1642-ND	14.21	12.96	11.71	Q14P1CXXB12E
	12	White	679-1643-ND	14.72	13.43	12.13	Q14P1CXXW12E
	12	R/Y/G	679-1669-ND	9.79	8.93	8.07	Q14P1CZZRYG12E
	24	Red	679-1644-ND	8.57	7.82	7.06	Q14P1CXXR24E
	24	Green	679-1645-ND	8.57	7.82	7.06	Q14P1CXXG24E
	24	Yellow	679-1646-ND	8.57	7.82	7.06	Q14P1CXXY24E
	24	Blue	679-1647-ND	14.21	12.96	11.71	Q14P1CXXB24E
	24	White	679-1648-ND	14.72	13.43	12.13	Q14P1CXXW24E
	24	R/Y/G	679-1670-ND	9.79	8.93	8.07	Q14P1CZZRYG24E
	110	Red	679-1649-ND	11.90	10.85	9.80	Q14P1CXXR110E
	110	Green	679-1650-ND§	11.90	10.85	9.80	Q14P1CXXG110E
	110	Yellow	679-1651-ND	11.90	10.85	9.80	Q14P1CXXY110E
	110	Blue	679-1652-ND	16.29	14.85	13.42	Q14P1CXXB110E
	110	White	679-1653-ND	16.80	15.32	13.84	Q14P1CXXW110E
3	12	Red	679-1654-ND	8.57	7.82	7.06	Q14F1CXXR12E
	12	Green	679-1655-ND	8.57	7.82	7.06	Q14F1CXXG12E
	12	Yellow	679-1656-ND	8.57	7.82	7.06	Q14F1CXXY12E
	12	Blue	679-1657-ND	14.21	12.96	11.71	Q14F1CXXB12E
	12	White	679-1658-ND	14.72	13.43	12.13	Q14F1CXXW12E
	24	Red	679-1659-ND	8.57	7.82	7.06	Q14F1CXXR24E
	24	Green	679-1660-ND	8.57	7.82	7.06	Q14F1CXXG24E
	24	Yellow	679-1661-ND	8.57	7.82	7.06	Q14F1CXXY24E
	24	Blue	679-1662-ND	14.21	12.96	11.71	Q14F1CXXB24E
	24	White	679-1663-ND	14.72	13.43	12.13	Q14F1CXXW24E
	110	Red	679-1664-ND	11.90	10.85	9.80	Q14F1CXXR110E
	110	Green	679-1665-ND	11.90	10.85	9.80	Q14F1CXXG110E
	110	Yellow	679-1666-ND	11.90	10.85	9.80	Q14F1CXXY110E
	110	Blue	679-1667-ND	16.29	14.85	13.42	Q14F1CXXB110E
	110	White	679-1668-ND	16.80	15.32	13.84	Q14F1CXXW110E
			Bright Chrome Finish - 16mm Mounting Hole				
1	12	Red	679-1673-ND	14.14	12.90	11.65	Q16P1CXXR12E
	12	Green	679-1674-ND	14.14	12.90	11.65	Q16P1CXXG12E
	12	Yellow	679-1675-ND§	14.14	12.90	11.65	Q16P1CXXY12E
	12	Blue	679-1676-ND	18.09	16.50	14.90	Q16P1CXXB12E
	12	White	679-1677-ND	19.69	17.95	16.22	Q16P1CXXW12E
	12	R/Y/G	679-1703-ND	15.81	14.42	13.02	Q16P1CZZRYG12E
	24	Red	679-1678-ND	14.14	12.90	11.65	Q16P1CXXR24E
	24	Green	679-1679-ND	14.14	12.90	11.65	Q16P1CXXG24E
	24	Yellow	679-1680-ND	14.14	12.90	11.65	Q16P1CXXY24E
	24	Blue	679-1681-ND	18.09	16.50	14.90	Q16P1CXXB24E
	24	White	679-1682-ND	19.69	17.95	16.22	Q16P1CXXW24E
	24	R/Y/G	679-1705-ND	15.81	14.42	13.02	Q16P1CZZRYG24E
	110	Red	679-1683-ND	16.69	15.23	13.75	Q16P1CXXR110E
	110	Green	679-1684-ND	16.69	15.23	13.75	Q16P1CXXG110E
	110	Yellow	679-1685-ND	16.69	15.23	13.75	Q16P1CXXY110E
	110	Blue	679-1686-ND	20.67	18.85	17.03	Q16P1CXXB110E
	110	White	679-1687-ND	22.24	20.28	18.32	Q16P1CXXW110E
3	12	Red	679-1707-ND	14.14	12.90	11.65	Q16F1CXXR12E
	12	Green	679-1708-ND	14.14	12.90	11.65	Q16F1CXXG12E
	12	Yellow	679-1709-ND	14.14	12.90	11.65	Q16F1CXXY12E
	12	Blue	679-1710-ND	18.09	16.50	14.90	Q16F1CXXB12E
	12	White	679-1711-ND	19.69	17.95	16.22	Q16F1CXXW12E
	24	Red	679-1712-ND	14.14	12.90	11.65	Q16F1CXXR24E
	24	Green	679-1713-ND§	14.14	12.90	11.65	Q16F1CXXG24E
	24	Yellow	679-1714-ND	14.14	12.90	11.65	Q16F1CXXY24E
	24	Blue	679-1715-ND	18.09	16.50	14.90	Q16F1CXXB24E
	24	White	679-1716-ND	19.69	17.95	16.22	Q16F1CXXW24E
	110	Red	679-1717-ND	16.69	15.23	13.75	Q16F1CXXR110E
	110	Green	679-1718-ND	16.69	15.23	13.75	Q16F1CXXG110E
	110	Yellow	679-1719-ND	16.69	15.23	13.75	Q16F1CXXY110E
	110	Blue	679-1720-ND	20.67	18.85	17.03	Q16F1CXXB110E
	110	White	679-1721-ND	22.24	20.28	18.32	Q16F1CXXW110E
			Bright Chrome Finish - 19mm Mounting Hole				
1	12	Red	679-1737-ND	18.09	16.50	14.90	Q19P1CXXR12E
	12	Green	679-1738-ND	18.09	16.50	14.90	Q19P1CXXG12E
	12	Yellow	679-1739-ND	18.09	16.50	14.90	Q19P1CXXY12E
	12	Blue	679-1740-ND	22.07	20.12	18.18	Q19P1CXXB12E
	12	White	679-1741-ND	23.66	21.58	19.49	Q19P1CXXW12E
	12	R/Y/G	679-1767-ND	19.79	18.05	16.30	Q19P1CZZRYG12E
	24	Red	679-1742-ND	18.09	16.50	14.90	Q19P1CXXR24E
	24	Green	679-1743-ND	18.09	16.50	14.90	Q19P1CXXG24E
	24	Yellow	679-1744-ND	18.09	16.50	14.90	Q19P1CXXY24E
	24	Blue	679-1745-ND	22.07	20.12	18.18	Q19P1CXXB24E
	24	White	679-1746-ND	23.66	21.58	19.49	Q19P1CXXW24E
	24	R/Y/G	679-1769-ND	19.79	18.05	16.30	Q19P1CZZRYG24E
	110	Red	679-1747-ND	20.67	18.85	17.03	Q19P1CXXR110E
	110	Green	679-1748-ND	20.67	18.85	17.03	Q19P1CXXG110E
	110	Yellow	679-1749-ND	20.67	18.85	17.03	Q19P1CXXY110E
	110	Blue	679-1750-ND	24.65	22.48	20.30	Q19P1CXXB110E
	110	White	679-1751-ND	26.21	23.91	21.59	Q19P1CXXW110E

(Continued)

APEM Q Series LED Indicators *(Cont.)*

Fig.	Voltage (V)	LED Color	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Bright Chrome Finish - 22mm Mounting Hole							
1	12	Red	679-1771-ND	24.99	22.79	20.58	Q22P1CXXR12E
	12	Green	679-1772-ND	24.99	22.79	20.58	Q22P1CXXG12E
	12	Yellow	679-1773-ND	24.99	22.79	20.58	Q22P1CXXY12E
	12	Blue	679-1774-ND	37.13	33.86	30.58	Q22P1CXXB12E
	12	White	679-1775-ND	29.51	26.91	24.31	Q22P1CXXW12E
	12	R/Y/G	679-1801-ND	23.77	21.67	19.58	Q22P1CZZRYG12E
	24	Red	679-1776-ND	24.99	22.79	20.58	Q22P1CXXR24E
	24	Green	679-1777-ND	24.99	22.79	20.58	Q22P1CXXG24E
	24	Yellow	679-1778-ND	24.99	22.79	20.58	Q22P1CXXY24E
	24	Blue	679-1779-ND	43.52	39.68	35.84	Q22P1CXXB24E
	24	White	679-1780-ND	29.51	26.91	24.31	Q22P1CXXW24E
	24	R/Y/G	679-1803-ND	23.77	21.67	19.58	Q22P1CZZRYG24E
	110	Red	679-1781-ND	27.54	25.11	22.68	Q22P1CXXR110E
	110	Green	679-1782-ND	27.54	25.11	22.68	Q22P1CXXG110E
	110	Yellow	679-1783-ND	27.54	25.11	22.68	Q22P1CXXY110E
	110	Blue	679-1784-ND	46.10	42.04	37.97	Q22P1CXXB110E
	110	White	679-1785-ND	31.72	28.93	26.13	Q22P1CXXW110E

Fig.	Voltage (V)	LED Color	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
3	12	Red	679-1805-ND	24.99	22.79	20.58	Q22F1CXXR12E
	12	Green	679-1806-ND	24.99	22.79	20.58	Q22F1CXXG12E
	12	Yellow	679-1807-ND	24.99	22.79	20.58	Q22F1CXXY12E
	12	Blue	679-1808-ND	43.52	39.68	35.84	Q22F1CXXB12E
	12	White	679-1809-ND	29.51	26.91	24.31	Q22F1CXXW12E
	24	Red	679-1810-ND	24.99	22.79	20.58	Q22F1CXXR24E
	24	Green	679-1811-ND	24.99	22.79	20.58	Q22F1CXXG24E
	24	Yellow	679-1812-ND	24.99	22.79	20.58	Q22F1CXXY24E
	24	Blue	679-1813-ND	43.52	39.68	35.84	Q22F1CXXB24E
	24	White	679-1814-ND	29.51	26.91	24.31	Q22F1CXXW24E
	110	Red	679-1815-ND	27.54	25.11	22.68	Q22F1CXXR110E
	110	Green	679-1816-ND	27.54	25.11	22.68	Q22F1CXXG110E
	110	Yellow	679-1817-ND	27.54	25.11	22.68	Q22F1CXXY110E
	110	Blue	679-1818-ND	46.10	42.04	37.97	Q22F1CXXB110E
	110	White	679-1819-ND	31.72	28.93	26.13	Q22F1CXXW110E

Kingbright

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SMD LED Displays

Dimensions in mm

Fig. 1

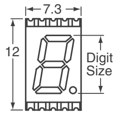

Fig. 2

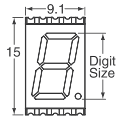

Fig. 3

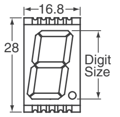

Fig. 4

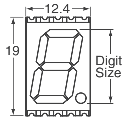

Fig.	Emitted Color	Peak Wavelength (nm)	Digit Size Inch (mm)	No. of Digits	Fwd.Voltage (Typ.) (V)	If (Max.) (mA)	Iv (µcd) @ 10mA (Min.)	(Typ.)	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kingbright Part No.
1	Red	627	0.3 (7.62)	1	2.0	30	1200	4210	754-1023-1-ND	2.21	1.55	1.33	754-1023-2-ND	550	437.80	ACSA03-41EWA-F01
	Green	565	0.3 (7.62)	1	2.2	25	1200	5600	754-1024-1-ND	2.28	1.71	1.37	754-1024-2-ND	550	450.45	ACSA03-41SGWA-F01
	Red	660	0.3 (7.62)	1	1.85	30	4700	19000	754-1025-1-ND	2.34	1.76	1.41	754-1025-2-ND	550	463.10	ACSA03-41SRWA-F01
	Red	627	0.3 (7.62)	1	2.0	30	1200	4210	754-1037-1-ND	2.21	1.55	1.33	754-1037-2-ND	550	437.80	ACSC03-41EWA-F01
	Green	565	0.3 (7.62)	1	2.2	25	1200	5600	754-1038-1-ND	2.45	1.84	1.47	754-1038-2-ND	550	485.10	ACSC03-41SGWA-F01
	Red	660	0.3 (7.62)	1	1.85	30	4700	19000	754-1039-1-ND	2.34	1.76	1.41	754-1039-2-ND	550	463.10	ACSC03-41SRWA-F01
2	Green	574	0.4 (10.16)	1	2.1	30	4700	17400	754-1026-1-ND	3.22	2.42	1.94	754-1026-2-ND	400	515.20	ACSA04-41CGKWA-F01
	Green	565	0.4 (10.16)	1	2.2	25	1900	7000	754-1027-1-ND	2.45	1.84	1.47	—	—	—	ACSA04-41SGWA-F01
	Red	660	0.4 (10.16)	1	1.85	30	4700	18000	754-1028-1-ND	2.59	1.95	1.56	754-1028-2-ND	400	414.40	ACSA04-41SRWA-F01
	Red	650	0.4 (10.16)	1	1.95	30	8000	26000	754-1029-1-ND	2.59	1.95	1.56	754-1029-2-ND	400	414.40	ACSA04-41SURKWA-F01
	Green	574	0.4 (10.16)	1	2.1	30	4700	17400	754-1040-1-ND	3.22	2.42	1.94	754-1040-2-ND	400	515.20	ACSC04-41CGKWA-F01
	Green	565	0.4 (10.16)	1	2.2	25	1900	7000	754-1041-1-ND	2.45	1.84	1.47	—	—	—	ACSC04-41SGWA-F01
	Red	650	0.4 (10.16)	1	1.95	30	8000	26000	754-1043-1-ND	2.59	1.95	1.56	754-1043-2-ND	400	414.40	ACSC04-41SURKWA-F01
3	Green	574	0.8 (20.32)	1	2.1	30	8000	30000	754-1030-1-ND	4.90	3.68	2.94	—	—	—	ACSA08-51CGKWA
	Green	565	0.8 (20.32)	1	2.2	25	1900	7500	754-1045-1-ND	4.20	3.15	2.52	754-1045-2-ND	200	336.00	ACSC08-51SGWA
	Red	650	0.8 (20.32)	1	1.95	30	18000	61000	754-1046-1-ND	4.55	3.42	2.73	754-1046-2-ND	250	455.00	ACSC08-51SURKWA
4	Green	574	0.56 (14.22)	1	2.1	30	8000	35500	754-1033-1-ND	3.50	2.63	2.10	754-1033-2-ND	400	560.00	ACSA56-41CGKWA-F01
	Green	565	0.56 (14.22)	1	2.2	25	3000	13200	754-1034-1-ND	3.01	2.26	1.81	—	—	—	ACSA56-41SGWA-F01
	Red	660	0.56 (14.22)	1	1.85	30	8000	26000	754-1035-1-ND	3.15	2.37	1.89	754-1035-2-ND	400	504.00	ACSA56-41SRWA-F01
	Red	650	0.56 (14.22)	1	1.95	30	4700	30000	754-1036-1-ND	3.15	2.37	1.89	754-1036-2-ND	400	504.00	ACSA56-41SURKWA-F01
	Green	574	0.56 (14.22)	1	2.1	30	8000	35500	754-1047-1-ND	3.50	2.63	2.10	754-1047-2-ND	400	560.00	ACSC56-41CGKWA-F01
	Green	565	0.56 (14.22)	1	2.2	25	3000	13200	754-1048-1-ND	3.10	2.33	1.86	754-1048-2-ND	400	496.00	ACSC56-41SGWA-F01
	Red	660	0.56 (14.22)	1	1.85	30	8000	26000	754-1049-1-ND	3.15	2.37	1.89	754-1049-2-ND	400	504.00	ACSC56-41SRWA-F01
	Red	650	0.56 (14.22)	1	1.95	30	4700	30000	754-1050-1-ND	3.15	2.37	1.89	—	—	—	ACSC56-41SURKWA-F01

Light Bar Graph

Dimensions in mm

Fig. 1

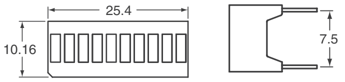

Fig. 2

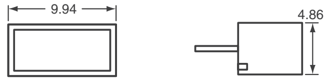

Fig. 3

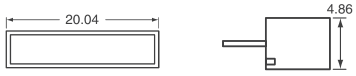

Fig. 4

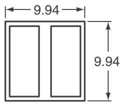

Fig. 5

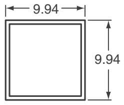

Fig. 6

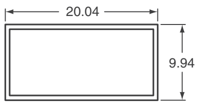

Fig.	LED Color	No. of Elements	Forward Voltage (Typ.) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA (Min.)	(Typ.)	Digi-Key Part No.	Price Each 1	25	100	Kingbright Part No.
1	HE Red	10	2.0	30	1900†	9000†	754-1176-5-ND	1.68	1.30	1.06	DC10EWA
	Green	10	2.2	25	3000†	16000†	754-1177-5-ND	1.68	1.30	1.06	DC10GWA
	Red	10	1.85	30	8000†	31000†	754-1178-5-ND	1.73	1.34	1.09	DC10SRWA
	Yellow	10	2.1	30	1900†	9000†	754-1179-5-ND	1.68	1.30	1.06	DC10YWA
2	HE Red	2	2.0	30	7	40	754-1180-5-ND	.68	.53	.43	KB2300EW
	Yellow	2	2.1	30	7	40	754-1182-5-ND	.68	.53	.43	KB2400YW
	Green	2	2.2	25	7	40	754-1184-5-ND	.68	.53	.43	KB2500SGD
3	HE Red	4	2.0	30	10	50	754-1181-5-ND	.92	.72	.58	KB2350EW
	Yellow	4	2.1	30	10	50	754-1183-5-ND	.92	.72	.58	KB2450YW
	Green	4	2.2	25	18	70	754-1185-5-ND	.92	.72	.58	KB2550SGD
4	HE Red	4	2.0	30	10	50	754-1186-5-ND	1.10	.86	.70	KB2600EW
	Yellow	4	2.1	30	7	40	754-1189-5-ND	1.10	.86	.70	KB2700YW
	Green	4	2.2	25	10	50	754-1192-5-ND	1.10	.86	.70	KB2800SGD
5	HE Red	4	2.0	30	10	60	754-1187-5-ND	1.10	.86	.70	KB2655EW
	Yellow	4	2.1	30	10	50	754-1190-5-ND	1.10	.86	.70	KB2755YW
	Green	4	2.2	25	18	80	754-1193-5-ND	1.10	.86	.70	KB2855SGD
6	HE Red	8	2.0	30	10	60	754-1188-5-ND	1.89	1.47	1.19	KB2685EW
	Yellow	8	2.1	30	10	50	754-1191-5-ND	1.89	1.47	1.19	KB2785YW
	Green	8	2.2	25	50	200	754-1194-5-ND	1.89	1.47	1.19	KB2885SGD

† Iv (µcd) @ 10mA

Through-Hole LEDs

Dimensions in mm

Fig. 1

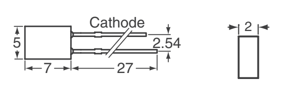

Fig. 2

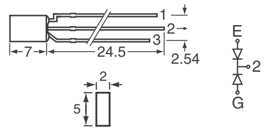

Fig. 3

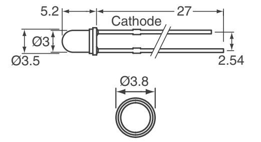

Fig. 4

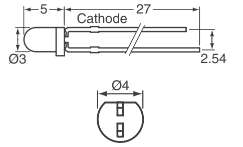

Fig. 5 ***NEW!***

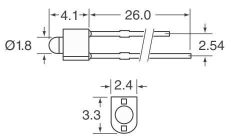

Fig. 6

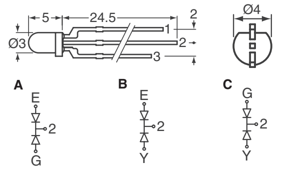

Fig. 7

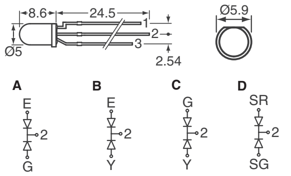

Fig. 8 ***NEW!***

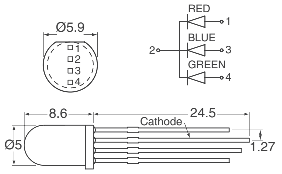

Fig. 9

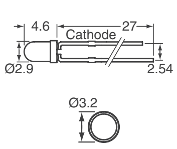

Fig. 10

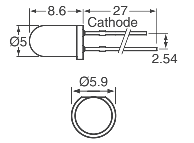

Fig. 11

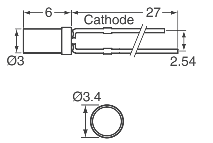

Fig. 12

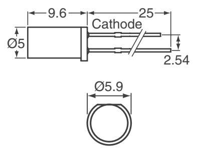

Fig. 13

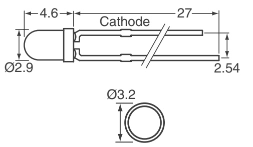

Fig. 14

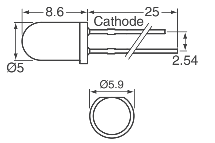

Fig.	Package Type (mm)	Emitted Color	Lens	Dominant Wavelength (nm)	Forward Voltage (Typical) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA (Minimum)	Iv (mcd) @ 20mA (Typical)	View Angle (°)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Kingbright Part No.
1	2 x 5	Green	Diffused	568	2.2	25	1.8†	5†	110	754-1200-ND	.10	1.96	6.35	WP113GDT
	2 x 5	HE Red	Diffused	625	2.0	30	3†	5†	110	754-1201-ND	.11	2.10	6.82	WP113IDT
	2 x 5	Red	Diffused	640	1.85	30	36	80	110	754-1202-ND	.13	2.54	8.23	WP113SRDT
	2 x 5	Yellow	Diffused	588	2.1	30	1†	4†	110	754-1203-ND	.11	2.18	7.05	WP113YDT
2	2 x 5	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	4/7	12/20	110	754-1204-ND	.24	4.71	15.28	WP119EGWT
3	3	Green	Diffused	568	2.2	25	8†	15†	60	754-1210-ND	.11	2.03	6.58	WP132XGD
	3	HE Red	Diffused	625	2.0	30	8†	25†	60	754-1211-ND	.11	2.10	6.82	WP132XID
	3	Yellow	Diffused	588	2.1	30	5†	15†	60	754-1212-ND	.11	2.18	7.05	WP132XYD
4	3	Green	Diffused	568	2.2	25	8†	20†	50	754-1217-ND	.10	1.89	6.11	WP3A8GD
	3	Red	Diffused	660	2.25	25	1†	2.5†	50	754-1218-ND	.10	1.89	6.11	WP3A8HD
	3	HE Red	Diffused	625	2.0	30	8†	25†	50	754-1219-ND	.10	1.96	6.35	WP3A8ID
	3	Yellow	Diffused	588	2.1	30	5†	15†	50	754-1220-ND	.12	2.25	7.29	WP3A8YD
5	1.8	Green	Diffused	568	2.2	25	5†	10†	70	754-1373-ND ***NEW!***	.20	3.77	12.22	WP4060GD
	1.8	HE Red	Diffused	625	2.0	30	8†	15†	70	754-1374-ND ***NEW!***	.20	3.77	12.22	WP4060ID
	1.8	Red	Diffused	640	1.85	30	70	200	70	754-1375-ND ***NEW!***	.20	3.77	12.22	WP4060SRD
	1.8	Yellow	Diffused	588	2.1	30	1.8†	5†	70	754-1376-ND ***NEW!***	.20	3.77	12.22	WP4060YD
6A	3	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	10/10	35/40	60	754-1221-ND	.27	5.22	16.92	WP3VEGW
6B	3	Yellow/HE Red	White Diffused	588/625	2.1/2.0	30/30	7/10	15/40	60	754-1222-ND	.27	5.22	16.92	WP3VEYW
6C	3	Green/Yellow	White Diffused	568/588	2.2/2.1	25/30	10/7	35/15	60	754-1223-ND	.27	5.22	16.92	WP3VGYW
7A	5	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	18/18	50/60	60	754-1232-ND	.24	4.71	15.28	WP59EGW
7A	5	Green/HE Red	Water Clear	568/625	2.2/2.0	25/30	70/70	150/150	24	754-1471-ND ***NEW!***	.24	4.71	15.28	WP59EGC
7B	5	Yellow/HE Red	White Diffused	588/625	2.1/2.0	30/30	18/18	40/60	60	754-1233-ND	.24	4.71	15.28	WP59EYW
7B	5	Yellow/HE Red	Water Clear	588/625	2.1/2.0	30/30	18/70	60/150	24	754-1472-ND ***NEW!***	.24	4.71	15.28	WP59EYC
7C	5	Green/Yellow	White Diffused	568/588	2.1/2.2	25/30	18/18	50/40	60	754-1234-ND	.24	4.71	15.28	WP59GYW
7C	5	Green/Yellow	Water Clear	568/588	2.2/2.1	25/30	70/18	150/60	24	754-1473-ND ***NEW!***	.24	4.71	15.28	WP59GYC
7D	5	Green/Red	White Diffused	568/640	2.2/1.85	25/30	18/110	50/220	60	754-1235-ND	.27	5.22	16.92	WP59SRSGW/CC
8	5	Blue/Green/HE Red	White Diffused	465/525/630	3.3/3.3/1.9	30/25/30	280/280/380	420/750/750	60	754-1492-ND ***NEW!***	1.77	34.22	110.92	WP154A4SUREQBFZGW
9	3	Green	Water Clear	570	2.1	30	110	350	34	754-1240-ND	.13	2.54	8.23	WP7104CGCK
	3	Green	Diffused	568	2.2	25	8†	20†	40	754-1242-ND	.10	1.89	6.11	WP7104GD
	3	HE Red	Diffused	625	2.0	30	8†	20†	40	754-1243-ND	.09	1.81	5.88	WP7104ID
	3	Green	Diffused	568	1.9	25	0.7‡	2‡	40	754-1244-ND	.10	1.89	6.11	WP7104LGD
	3	HE Red	Diffused	625	1.7	30	0.7‡	3‡	40	754-1245-ND	.09	1.81	5.88	WP7104LID
	3	Red	Diffused	640	1.65	30	8‡	20‡	40	754-1246-ND	.11	2.18	7.05	WP7104LSRD
	3	Yellow	Diffused	588	1.85	30	0.7‡	1.5‡	40	754-1247-ND	.11	2.18	7.05	WP7104LYD
	3	Blue	Water Clear	470	3.3	30	650	1500	20	754-1491-ND ***NEW!***	.27	5.22	16.92	WP7104QBC/D
	3	Blue	Water Clear	465	3.3	30	1100	2300	20	754-1490-ND ***NEW!***	.70	13.56	43.95	WP7104QBC/G
	3	Orange	Water Clear	601	2.0	30	480	1300	34	754-1250-ND	.23	4.50	14.57	WP7104SEC
	3	Green	Water Clear	568	2.2	25	70	150	34	754-1252-ND	.10	1.89	6.11	WP7104SGC
	3	Red	Water Clear	640	1.85	30	480	600	34	754-1253-ND	.11	2.10	6.82	WP7104SRC/D
	3	Red	Water Clear	640	1.85	30	650	800	34	754-1254-ND	.11	2.18	7.05	WP7104SRC/E
	3	Red	Diffused	640	1.85	30	110	150	40	754-1255-ND	.12	2.25	7.29	WP7104SRD/D
	3	Red	Diffused	640	1.85	30	180	250	40	754-1256-ND	.12	2.39	7.76	WP7104SRD/E
	3	Yellow	Water Clear	590	2.0	30	280	700	34	754-1257-ND	.23	4.50	14.57	WP7104SYC
	3	Green	Water Clear	525	3.2	30	1200	3000	34	754-1259-ND	.88	16.97	54.99	WP7104VGC/A
	3	Yellow	Diffused	588	2.1	30	5†	15†	40	754-1261-ND	.11	2.18	7.05	WP7104YD
10	5	Green	Water Clear	570	2.1	30	380	900	20	754-1262-ND	.13	2.54	8.23	WP7113CGCK
	5	Green	Diffused	568	2.2	25	5†	20†	30	754-1263-ND	.11	2.03	6.58	WP7113GD
	5	HE Red	Diffused	625	2.0	30	8†	45†	30	754-1264-ND	.11	2.18	7.05	WP7113ID
	5	Green	Diffused	568	1.9	25	0.7‡	2‡	30	754-1265-ND	.11	2.03	6.58	WP7113LGD
	5	HE Red	Diffused	625	1.7	30	0.7‡	5‡	30	754-1266-ND	.11	2.18	7.05	WP7113LID
	5	Red	Diffused	640	1.65	30	8‡	20‡	30	754-1267-ND	.12	2.39	7.76	WP7113LSRD
	5	Yellow	Diffused	588	1.85	30	0.7‡	2‡	30	754-1268-ND	.12	2.25	7.29	WP7113LYD
	5	Blue	Water Clear	470	3.2	30	280	1000	16	754-1269-ND	.42	8.05	26.09	WP7113PBC/A
	5	Blue	Water Clear	470	3.3	30	900	2200	16	754-1489-ND ***NEW!***	.27	5.22	16.92	WP7113QBC/D
	5	Blue	Water Clear	465	3.3	30	2200	4000	16	754-1488-ND ***NEW!***	.70	13.56	43.95	WP7113QBC/G
	5	Orange	Water Clear	601	2.0	30	650	2500	20	754-1271-ND	.23	4.50	14.57	WP7113SEC
	5	Green	Water Clear	568	2.2	25	70	200	20	754-1273-ND	.11	2.03	6.58	WP7113SGC
	5	Red	Water Clear	640	1.85	30	900	1100	20	754-1274-ND	.12	2.25	7.29	WP7113SRC/DU
	5	Red	Diffused	640	1.85	30	180	250	30	754-1275-ND	.12	2.39	7.76	WP7113SRD/D
	5	Red	Diffused	640	1.85	30	280	400	30	754-1276-ND	.12	2.25	7.29	WP7113SRD/E
	5	Red	Diffused	640	1.85	30	480	600	30	754-1277-ND	.34	6.60	21.39	WP7113SRD/F
	5	Green/Red	White Diffused	568/640	2.2/1.85	25/30	18/110	60/200	35	754-1278-ND	.28	5.44	17.63	WP7113SRSGW
	5	Red	Water Clear	630	1.9	30	1200	1400	20	754-1279-ND	.23	4.50	14.57	WP7113SURC
	5	Yellow	Water Clear	590	2.0	30	650	2000	20	754-1280-ND	.23	4.50	14.57	WP7113SYC
	5	Green	Water Clear	525	3.2	30	1800	5500	20	754-1282-ND	.88	16.97	54.99	WP7113VGC/A

§ Chromaticity Coordinates † Iv (mcd) @ 10mA ‡ Iv (mcd) @ 2mA

(Continued)

Dimensions in mm

Fig. 15 ***NEW!***

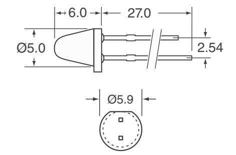

Fig. 16 ***NEW!***

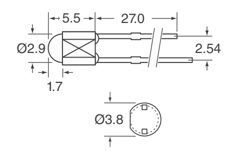

Fig. 17

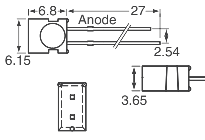

Fig. 18

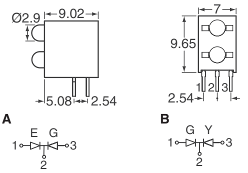

Fig. 19

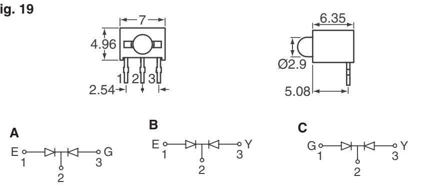

Fig. 20

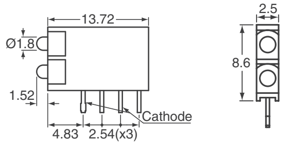

Fig. 21

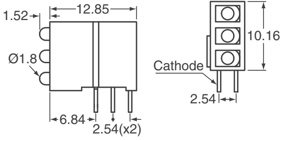

Fig. 22

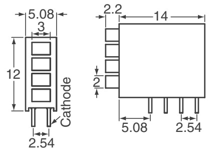

Fig. 23

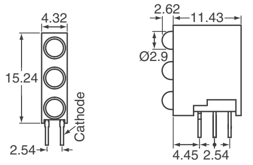

Fig. 24

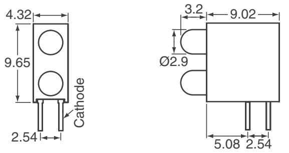

Fig. 25

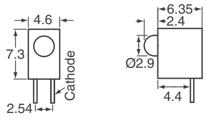

Fig. 26

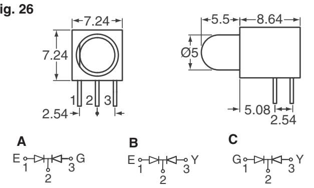

Fig.	Package Type (mm)	Emitted Color	Lens	Dominant Wavelength (nm)	Forward Voltage (Typical) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA		View Angle (°)	Digi-Key Part No.	Pricing			Kingbright Part No.
							(Minimum)	(Typical)			1	25	100	
10	5	Yellow	Diffused	588	2.1	30	5†	20†	30	754-1284-ND	.12	2.25	7.29	WP7113YD
	5	Green	Water Clear	525	3.3	25	3800	6500	20	754-1285-ND	.59	11.31	36.66	WP7113ZGC
	5	Green	Water Clear	525	3.2	30	7600	16000	20	754-1487-ND ***NEW!***	.82	15.81	51.23	WP7113ZGC/G
11	3	Green	Diffused	568	2.2	25	1†	4†	100	754-1304-ND	.12	2.39	7.76	WP424GDT
	3	HE Red	Diffused	625	2.0	30	3†	5†	100	754-1305-ND	.12	2.39	7.76	WP424IDT
	3	Yellow	Diffused	588	2.1	30	1†	4†	100	754-1306-ND	.12	2.39	7.76	WP424YDT
12	5	Green	Diffused	568	2.2	25	1†	4†	100	754-1307-ND	.12	2.39	7.76	WP483GDT
	5	HE Red	Diffused	625	2.0	30	1.8†	5†	100	754-1308-ND	.12	2.39	7.76	WP483IDT
	5	Yellow	Diffused	588	2.1	30	0.7†	3†	100	754-1309-ND	.12	2.39	7.76	WP483YDT
13	3	Cyan	Water Clear	0.18/0.39§	3.3	30	480	1600	34	754-1310-ND	1.44	27.91	90.48	WP7104PR51C/A
	3	Red	Water Clear	625	2.2	30	3300	7000	34	754-1377-ND ***NEW!***	.59	11.31	36.66	WP7104SEC/J3
	3	Yellow	Water Clear	589	2.0	30	1200	2200	34	754-1378-ND ***NEW!***	.59	11.31	36.66	WP7104SYC/J3
14	5	Cyan	Water Clear	0.18/0.39§	3.3	30	900	2200	20	754-1311-ND	1.34	25.96	84.13	WP7113PR51C/A
	5	Red	Water Clear	625	2.2	30	6700	12000	20	754-1379-ND ***NEW!***	.59	11.31	36.66	WP7113SEC/J3
	5	Yellow	Water Clear	589	2.0	30	2200	3800	20	754-1380-ND ***NEW!***	.59	11.31	36.66	WP7113SYC/J3
	5	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	10/10	20/30	60	754-1469-ND ***NEW!***	.24	4.71	15.28	WP57EGW
	5	Yellow/HE Red	White Diffused	588/625	2.1/2.0	30/30	4/10	10/30	60	754-1470-ND ***NEW!***	.24	4.71	15.28	WP57EYW
15	5	Green	Diffused	568	2.2	25	5†	12†	60	754-1474-ND ***NEW!***	.11	2.10	6.82	WP63GD
	5	HE Red	Diffused	625	2.0	30	12†	20†	60	754-1475-ND ***NEW!***	.12	2.32	7.52	WP63ID
	5	Super Red	Diffused	640	1.85	30	110	300	60	754-1476-ND ***NEW!***	.13	2.54	8.23	WP63SRD
	5	Yellow	Diffused	588	2.1	30	1.8†	6†	60	754-1477-ND ***NEW!***	.12	2.32	7.52	WP63YD
16	3	Green	Diffused	568	2.2	25	5†	25†	80	754-1478-ND ***NEW!***	.13	2.47	7.99	WP908A8GD
	3	HE Red	Diffused	625	2.0	30	5†	20†	80	754-1479-ND ***NEW!***	.15	2.83	9.17	WP908A8ID
	3	Pure Orange	Diffused	610	2.05	25	8†	26†	80	754-1480-ND ***NEW!***	.15	2.83	9.17	WP908A8ND
	3	Super Red	Diffused	640	1.85	30	70	250	80	754-1481-ND ***NEW!***	.15	2.90	9.40	WP908A8SRD
	3	Yellow	Diffused	588	2.1	30	5†	20†	80	754-1482-ND ***NEW!***	.15	2.83	9.17	WP908A8YD
17	3.65 x 6.15	Green	Diffused	568	2.2	25	1†	4†	100	754-1195-ND	.27	5.22	16.92	WP1043GD
	3.65 x 6.15	HE Red	Diffused	625	2.0	30	1.8†	10†	100	754-1196-ND	.27	5.22	16.92	WP1043ID
	3.65 x 6.15	Green	Diffused	568	2.2	25	4	10	100	754-1197-ND	.29	5.66	18.33	WP1043SGD
	3.65 x 6.15	Red	Diffused	640	1.85	30	36	90	100	754-1198-ND	.34	6.60	21.39	WP1043SRD
	3.65 x 6.15	Yellow	Diffused	588	2.1	30	1†	4†	100	754-1199-ND	.27	5.22	16.92	WP1043YD
Circuit Board Indicator														
18A	3	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	7/7	25/30	60	754-1205-ND	.73	14.14	45.83	WP130WCP/2EGW
18B	3	Green/Yellow	White Diffused	568/588	2.2/2.1	25/30	7/7	25/20	60	754-1206-ND	.73	14.14	45.83	WP130WCP/2GYW
19A	3	Green/HE Red	White Diffused	568/625	2.2/2.0	25/30	7/7	25/30	60	754-1207-ND	.34	6.60	21.39	WP130WDT/EGW
19B	3	Yellow/HE Red	White Diffused	588/625	2.1/2.0	30/30	7/7	20/30	60	754-1208-ND	.34	6.60	21.39	WP130WDT/EYW
19C	3	Green/Yellow	White Diffused	568/588	2.2/2.1	25/30	7/7	25/20	60	754-1209-ND	.34	6.60	21.39	WP130WDT/GYW
20	1.8	Green	Diffused	568	2.2	25	5†	10†	70	754-1224-ND	.66	12.76	41.36	WP4060VH/2GD
	1.8	HE Red	Diffused	625	2.0	30	8†	15†	70	754-1225-ND	.66	12.76	41.36	WP4060VH/2ID
	1.8	Red	Diffused	640	1.85	30	70	200	70	754-1226-ND	.66	12.76	41.36	WP4060VH/2SRD
	1.8	Yellow	Diffused	588	2.1	30	1.8†	5†	70	754-1227-ND	.66	12.76	41.36	WP4060VH/2YD
21	1.8	Green	Diffused	568	2.2	25	5†	10†	70	754-1228-ND	1.12	21.68	70.27	WP4060XH/3GD
	1.8	HE Red	Diffused	625	2.0	30	8†	15†	70	754-1229-ND	1.12	21.68	70.27	WP4060XH/3ID
	1.8	Red	Diffused	640	1.85	30	70	200	70	754-1230-ND	1.12	21.68	70.27	WP4060XH/3SRD
	1.8	Yellow	Diffused	588	2.1	30	1.8†	5†	70	754-1231-ND	1.12	21.68	70.27	WP4060XH/3YD
22	2 x 3	Green	Diffused	568	2.2	25	1.8†	6†	100	754-1286-ND	1.17	22.62	73.32	WP914CK/4GDT
	2 x 3	HE Red	Diffused	625	2.0	30	1.8†	8†	100	754-1287-ND	1.17	22.62	73.32	WP914CK/4IDT
	2 x 3	Yellow	Diffused	588	2.1	30	1†	4†	100	754-1288-ND	1.17	22.62	73.32	WP914CK/4YDT
23	3	Green	Diffused	568	2.2	25	8†	20†	40	754-1289-ND	.71	13.70	44.42	WP934SA/3GD
	3	HE Red	Diffused	625	2.0	30	8†	20†	40	754-1290-ND	.71	13.70	44.42	WP934SA/3ID
	3	Red	Diffused	640	1.85	30	110	300	40	754-1291-ND	.76	14.65	47.47	WP934SA/3SRD
	3	Yellow	Diffused	588	2.1	30	5†	15†	40	754-1292-ND	.71	13.70	44.42	WP934SA/3YD
24	3	Green	Diffused	568	2.2	25	8†	20†	40	754-1293-ND	.39	7.61	24.68	WP934EB/2GD
	3	HE Red	Diffused	625	2.0	30	8†	20†	40	754-1294-ND	.39	7.61	24.68	WP934EB/2ID
	3	Red	Diffused	640	1.85	30	110	300	40	754-1295-ND	.41	7.83	25.38	WP934EB/2SRD
	3	Yellow	Diffused	588	2.1	30	5†	15†	40	754-1296-ND	.39	7.61	24.68	WP934EB/2YD
25	3	Green	Diffused	568	2.2	25	8†	20†	40	754-1297-ND	.22	4.28	13.87	WP934CB/GD
	3	HE Red	Diffused	625	2.0	30	8†	20†	40	754-1298-ND	.22	4.28	13.87	WP934CB/ID
	3	Red	Diffused	640	1.85	30	110	300	40	754-1299-ND	.22	4.28	13.87	WP934CB/SRD
	3	Yellow	Diffused	588	2.1	30	5†	15†	40	754-1300-ND	.22	4.28	13.87	WP934CB/YD
26A	5	Green/HE Red	White Diffused	568/625	2.2/20	25/30	18/18	50/60	60	754-1301-ND	.33	6.38	20.68	WP59BL/EGW
26B	5	Yellow/HE Red	White Diffused	588/625	2.1/2.0	30/30	18/18	40/60	60	754-1302-ND	.33	6.38	20.68	WP59BL/EYW
26C	5	Green/Yellow	White Diffused	568/588	2.2/2.1	25/30	18/18	50/40	60	754-1303-ND	.33	6.38	20.68	WP59BL/GYW

§ Chromaticity Coordinates † Iv (mcd) @ 10mA ‡ Iv (mcd) @ 2mA

Surface Mount LEDs

Dimensions in mm

Fig. 1

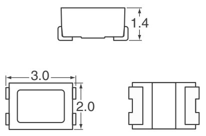

Fig. 2 ***NEW!***

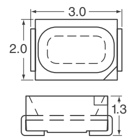

Fig. 3

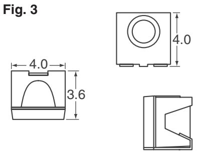

Fig. 4

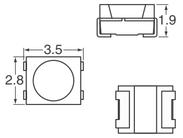

Fig. 5 ***NEW!***

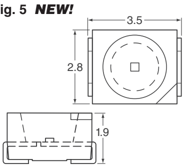

Fig. 6

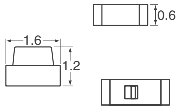

Fig. 7

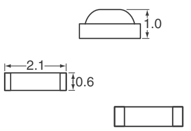

Fig. 8

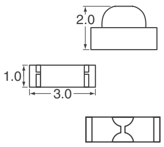

Fig. 9

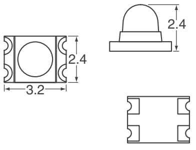

Fig. 10

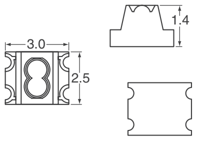

Fig. 11

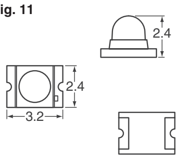

Fig. 12

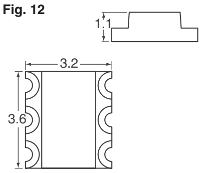

Fig.	Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kingbright Part No.
1	3 x 2mm	Green	Water Clear	570	2.1	30	60	90°	754-1000-1-ND	.31	2.29	4.58	754-1000-2-ND	2,000	92.00/M	AA3020ACGCK
	3 x 2mm	HE Red	Water Clear	625	2.0	30	20	90°	754-1001-1-ND	.27	1.99	3.98	754-1001-2-ND	2,000	80.00/M	AA3020AEC
	3 x 2mm	Blue	Water Clear	470	3.2	30	60	90°	754-1002-1-ND	.59	4.39	8.78	754-1002-2-ND	2,000	176.00/M	AA3020APBC/A
	3 x 2mm	Blue	Water Clear	470	3.3	30	160	90°	754-1389-1-ND✔	.39	2.93	5.85	754-1389-2-ND✔	2,000	117.00/M	AA3020AQBC/D
	3 x 2mm	Super Orange	Water Clear	601	2.1	30	150	90°	754-1003-1-ND	.30	2.21	4.43	754-1003-2-ND	2,000	89.00/M	AA3020ASECK
	3 x 2mm	Super Green	Water Clear	568	2.2	25	30	90°	754-1004-1-ND	.27	1.99	3.98	754-1004-2-ND	2,000	80.00/M	AA3020ASGC
	3 x 2mm	Super Red	Water Clear	640	1.85	30	120	90°	754-1005-1-ND	.28	2.06	4.13	754-1005-2-ND	2,000	83.00/M	AA3020ASRC
	3 x 2mm	Hyper Red	Water Clear	630	1.95	30	200	90°	754-1006-1-ND	.30	2.21	4.43	754-1006-2-ND	2,000	89.00/M	AA3020ASURCK
	3 x 2mm	Green	Water Clear	525	3.3	25	500	90°	754-1390-1-ND✔	.65	4.88	9.75	754-1390-2-ND✔	2,000	195.00/M	AA3020AZGC
2	3 x 2mm	Blue	Water Clear	470	3.3	30	200	125°	754-1499-1-ND✔	.35	2.63	5.25	754-1499-2-ND✔	2,000	105.00/M	AA3021QBCT/D
3	4 x 4mm	Green	Water Clear	570	2.1	30	70	90°	754-1017-1-ND	.43	3.19	6.38	754-1017-2-ND	500	76.50	AA4040CGCK
	4 x 4mm	Blue	Water Clear	470	3.3	30	150	90°	754-1018-1-ND	.56	4.16	8.33	754-1018-2-ND	500	99.90	AA4040QBC/D
	4 x 4mm	Super Orange	Water Clear	601	2.1	30	300	90°	754-1400-1-ND✔	.46	3.41	6.83	754-1400-2-ND✔	500	81.90	AA4040SECK
	4 x 4mm	Super Green	Water Clear	568	2.2	25	25	90°	754-1019-1-ND	.39	2.93	5.85	754-1019-2-ND	500	70.00	AA4040SGC
	4 x 4mm	Super Red	Water Clear	640	1.85	30	120	90°	754-1020-1-ND	.39	2.93	5.85	754-1020-2-ND	500	70.00	AA4040SRC
	4 x 4mm	Hyper Red	Water Clear	630	1.95	30	180	90°	754-1021-1-ND	.46	3.41	6.83	754-1021-2-ND	500	82.00	AA4040SURCK
	4 x 4mm	Super Yellow	Water Clear	590	2.0	30	120	90°	754-1022-1-ND	.46	3.41	6.83	754-1022-2-ND	500	82.00	AA4040SYCK
	4 x 4mm	Green	Water Clear	525	3.3	25	600	90°	754-1401-1-ND✔	1.04	7.80	15.60	754-1401-2-ND✔	500	187.20	AA4040ZGC
4	3.5 x 2.8mm	Green	Water Clear	570	2.1	30	60	120°	754-1009-1-ND	.31	2.29	4.58	754-1009-2-ND	1,500	92.00/M	AA3528ACGCK
	3.5 x 2.8mm	HE Red	Water Clear	625	2.0	30	30	120°	754-1010-1-ND	.26	1.91	3.83	754-1010-2-ND	1,500	77.00/M	AA3528AEC
	3.5 x 2.8mm	Pink	Water Clear	0.3/0.2§	3.3	30	290	120°	754-1312-1-ND	1.43	10.01	21.45	754-1312-2-ND	1,500	429.00/M	AA3528APR2C/A
	3.5 x 2.8mm	Purple	Water Clear	0.2/0.1§	3.3	30	160	120°	754-1313-1-ND	1.43	10.01	21.45	754-1313-2-ND	1,500	429.00/M	AA3528APR7C/A
	3.5 x 2.8mm	Blue	Water Clear	470	3.3	30	200	120°	754-1397-1-ND✔	.39	2.93	5.85	754-1397-2-ND✔	1,500	117.00/M	AA3528AQBC/D
	3.5 x 2.8mm	Super Orange	Water Clear	601	2.1	30	300	120°	754-1398-1-ND✔	.30	2.21	4.43	754-1398-2-ND✔	1,500	88.50/M	AA3528ASECK
	3.5 x 2.8mm	Super Green	Water Clear	568	2.2	25	25	120°	754-1012-1-ND	.26	1.91	3.83	754-1012-2-ND	1,500	77.00/M	AA3528ASGC
	3.5 x 2.8mm	Super Red	Water Clear	640	1.85	30	150	120°	754-1013-1-ND	.26	1.91	3.83	754-1013-2-ND	1,500	77.00/M	AA3528ASRC
	3.5 x 2.8mm	Hyper Red	Water Clear	630	1.95	30	200	120°	754-1014-1-ND	.30	2.21	4.43	754-1014-2-ND	1,500	89.00/M	AA3528ASURCK
	3.5 x 2.8mm	Super Yellow	Water Clear	590	2.0	30	150	120°	754-1015-1-ND	.30	2.21	4.43	754-1015-2-ND	1,500	89.00/M	AA3528ASYCK
	3.5 x 2.8mm	Yellow	Water Clear	588	2.1	30	15	120°	754-1016-1-ND	.26	1.91	3.83	754-1016-2-ND	1,500	77.00/M	AA3528AYC
	3.5 x 2.8mm	Green	Water Clear	525	3.3	30	600	120°	754-1399-1-ND✔	.65	4.88	9.75	754-1399-2-ND✔	1,500	195.00/M	AA3528AZGC
5	3.5 x 2.8mm	Blue	Water Clear	470	3.3	30	200	120°	754-1498-1-ND✔	.35	2.63	5.25	754-1498-2-ND✔	1,500	105.00/M	AA3528QBC/D
6	1.6 x 0.6mm	Green	Water Clear	570	2.1	30	60	110°	754-1051-1-ND	.26	1.95	3.90	754-1051-2-ND	2,000	78.00/M	APA1606CGCK
	1.6 x 0.6mm	Blue	Water Clear	470	3.2	30	60	110°	754-1052-1-ND	.56	4.16	8.33	754-1052-2-ND	2,000	167.00/M	APA1606PBC/A
	1.6 x 0.6mm	Blue	Water Clear	470	3.3	30	90	110°	754-1424-1-ND✔	.43	3.19	6.38	754-1424-2-ND✔	2,000	127.50/M	APA1606QBC/D
	1.6 x 0.6mm	Super Orange	Water Clear	601	2.1	30	250	110°	754-1053-1-ND	.24	1.76	3.53	754-1053-2-ND	2,000	71.00/M	APA1606SECK
	1.6 x 0.6mm	Hyper Red	Water Clear	630	1.95	30	250	110°	754-1054-1-ND	.24	1.76	3.53	754-1054-2-ND	2,000	71.00/M	APA1606SURCK
	1.6 x 0.6mm	Super Yellow	Water Clear	590	2.0	30	150	110°	754-1055-1-ND	.24	1.76	3.53	754-1055-2-ND	2,000	71.00/M	APA1606SYCK
	1.6 x 0.6mm	Green	Water Clear	525	3.3	25	250	110°	754-1056-1-ND	.72	5.36	10.73	754-1056-2-ND	2,000	214.50/M	APA1606ZGC
7	2.1 x 0.6mm	Green	Water Clear	570	2.1	30	60	120°	754-1057-1-ND	.26	1.95	3.90	754-1057-2-ND	2,000	78.00/M	APA2106CGCK
	2.1 x 0.6mm	Blue	Water Clear	470	3.2	30	60	120°	754-1058-1-ND	.56	4.16	8.33	754-1058-2-ND	2,000	167.00/M	APA2106PBC/A
	2.1 x 0.6mm	Blue	Water Clear	470	3.3	30	90	120°	754-1425-1-ND✔	.49	3.68	7.35	754-1425-2-ND✔	2,000	147.00/M	APA2106QBC/D
	2.1 x 0.6mm	Super Orange	Water Clear	601	2.1	30	250	120°	754-1059-1-ND	.24	1.76	3.53	754-1059-2-ND	2,000	71.00/M	APA2106SECK
	2.1 x 0.6mm	Hyper Red	Water Clear	630	1.95	30	250	120°	754-1060-1-ND	.24	1.76	3.53	754-1060-2-ND	2,000	71.00/M	APA2106SURCK
	2.1 x 0.6mm	Super Yellow	Water Clear	590	2.0	30	150	120°	754-1061-1-ND	.24	1.76	3.53	754-1061-2-ND	2,000	71.00/M	APA2106SYCK
	2.1 x 0.6mm	Green	Water Clear	525	3.3	25	250	120°	754-1062-1-ND	.78	5.85	11.70	754-1062-2-ND	2,000	234.00/M	APA2106ZGC
8	3.0 x 1.0mm	Super Green	Water Clear	568	2.2	25	15	120°	754-1071-1-ND	.23	1.73	3.45	—	—	—	APA3010SGC
	3.0 x 1.0mm	Yellow	Water Clear	588	2.1	30	7	120°	754-1074-1-ND	.23	1.73	3.45	—	—	—	APA3010YC
	3.0 x 1.0mm	Green	Water Clear	525	3.3	25	250	120°	754-1075-1-ND	.78	5.85	11.70	—	—	—	APA3010ZGC
9	3.2 x 2.4mm	Green/HE Red	Water Clear	568/625	2.2/2.0	25/30	40/60	20°	754-1076-1-ND	.36	2.70	5.40	754-1076-2-ND	1,500	108.00/M	APBD3224ESGC-F01
	3.2 x 2.4mm	Green/Yellow	Water Clear	570/590	2.1/2.0	30/30	300/500	20°	754-1077-1-ND	.39	2.93	5.85	754-1077-2-ND	1,500	117.00/M	APBD3224SYKCGKC-F01
10	3.0 x 2.5mm	Green/HE Red	Water Clear	568/625	2.2/2.0	25/30	20/20	100°	754-1078-1-ND	.36	2.70	5.40	754-1078-2-ND	2,000	108.00/M	APBL3025ESGC-F01
	3.0 x 2.5mm	Yellow/HE Red	Water Clear	588/625	2.1/2.0	30/30	15/20	100°	754-1079-1-ND	.36	2.70	5.40	—	—	—	APBL3025EYC-F01
	3.0 x 2.5mm	Green/Yellow	Water Clear	568/588	2.2/2.1	25/30	20/15	100°	754-1080-1-ND	.36	2.70	5.40	754-1080-2-ND	2,000	108.00/M	APBL3025YSGC-F01
11	3.2 x 2.4mm	Green	Water Clear	570	2.1	30	550	20°	754-1081-1-ND	.30	2.21	4.43	754-1081-2-ND	1,500	89.00/M	APD3224CGCK-F01
	3.2 x 2.4mm	HE Red	Water Clear	625	2.0	30	70	20°	754-1082-1-ND	.22	1.61	3.23	754-1082-2-ND	1,500	65.00/M	APD3224EC-F01
	3.2 x 2.4mm	Blue	Water Clear	470	3.3	30	900	20°	754-1493-1-ND✔	.56	4.16	8.33	754-1493-2-ND✔	1,500	166.50/M	APD3224QBC/D-F01
	3.2 x 2.4mm	Super Orange	Water Clear	601	2.1	30	1300	20°	754-1084-1-ND	.27	1.99	3.98	754-1084-2-ND	1,500	80.00/M	APD3224SECK-F01
	3.2 x 2.4mm	Super Green	Water Clear	568	2.2	25	70	20°	754-1085-1-ND	.22	1.61	3.23	754-1085-2-ND	1,500	65.00/M	APD3224SGC-F01
	3.2 x 2.4mm	Hyper Red	Water Clear	630	1.95	30	1000	20°	754-1086-1-ND	.27	1.99	3.98	754-1086-2-ND	1,500	80.00/M	APD3224SURCK-F01
	3.2 x 2.4mm	Super Yellow	Water Clear	590	2.0	30	600	20°	754-1087-1-ND	.27	1.99	3.98	754-1087-2-ND	1,500	80.00/M	APD3224SYCK-F01
	3.2 x 2.4mm	Yellow	Water Clear	588	2.1	30	40	20°	754-1088-1-ND	.22	1.61	3.23	—	—	—	APD3224YC-F01
	3.2 x 2.4mm	Green	Water Clear	525	3.3	25	2400	20°	754-1089-1-ND	.72	5.36	10.73	754-1089-2-ND	1,500	214.50/M	APD3224ZGC-F01
12	3.2 x 3.6mm	HE Red/Green/Blue	Water Clear	630/525/470	1.95/3.3/3.3	30/25/30	220/300/100	120°	754-1507-1-ND✔	1.47	10.99	21.98	754-1507-2-ND✔	1,000	439.50	APF3236SURKZGQBDC

✔ ***NEW!*** § Chromaticity Coordinates ‡ Iv (mcd) @ 10mA ▼ Iv (mcd) @ 30mA ✻ Iv (mcd) @ 50mA ◊ Iv (mcd) @ 120mA ▲ Iv (mcd) @ 150mA ★ Iv (mcd) @ 250mA
† Iv (mcd) @ 350mA Δ Iv (mcd) @ 700mA • Bulk

(Continued)

Dimensions in mm

Fig. 13

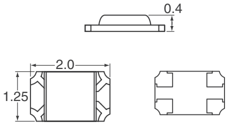

Fig. 14

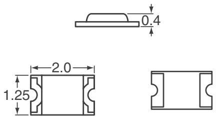

Fig. 15

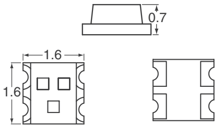

Fig. 16

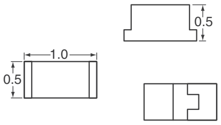

Fig. 17

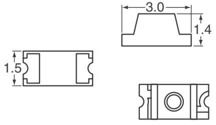

Fig. 18

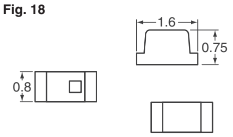

Fig. 19

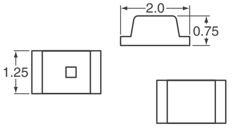

Fig. 20

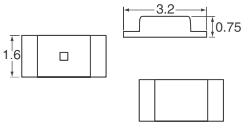

Fig. 21

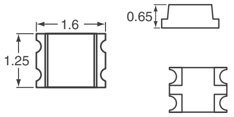

Fig. 22

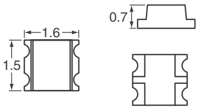

Fig.	Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kingbright Part No.
										1	10	25		Qty.	Pricing	
13	2.0 x 1.25mm	Green/Yellow	Water Clear	570/590	2.1/2	30/30	80/150	120°	754-1091-1-ND	.39	2.93	5.85	754-1091-2-ND	2,000	117.00/M	APHBM2012CGKSYKC
	2.0 x 1.25mm	Blue/Red	Water Clear	470/630	3.2/1.95	30/30	50/200	120°	754-1092-1-ND	1.04	7.80	15.60	—	—	—	APHBM2012PBASURKC
	2.0 x 1.25mm	Blue/HE Red	Water Clear	470/630	3.3/1.95	30/30	90/220	120°	754-1506-1-ND✔	.70	5.25	10.50	754-1506-2-ND✔	2,000	210.00/M	APHBM2012QBDSURKC
	2.0 x 1.25mm	Green/Red	Water Clear	570/630	2.1/1.95	30/30	80/220	120°	754-1093-1-ND	.39	2.93	5.85	754-1093-2-ND	2,000	117.00/M	APHBM2012SURKCGKC
14	2.0 x 1.25mm	Green	Water Clear	570	2.1	30	40	110°	754-1094-1-ND	.20	1.46	2.93	754-1094-2-ND	2,000	59.00/M	APHCM2012CGCK-F01
	2.0 x 1.25mm	Blue	Water Clear	470	3.2	30	60	110°	754-1095-1-ND	.56	4.16	8.33	—	—	—	APHCM2012PBC/A-F01
	2.0 x 1.25mm	Blue	Water Clear	470	3.3	30	100	110°	754-1505-1-ND✔	.49	3.68	7.35	754-1505-2-ND✔	2,000	147.00/M	APHCM2012QBC/D-F01
	2.0 x 1.25mm	Super Orange	Water Clear	601	2.1	30	160	110°	754-1096-1-ND	.18	1.31	2.63	754-1096-2-ND	2,000	53.00/M	APHCM2012SECK-F01
	2.0 x 1.25mm	Hyper Red	Water Clear	630	1.95	30	150	110°	754-1097-1-ND	.18	1.31	2.63	754-1097-2-ND	2,000	53.00/M	APHCM2012SURCK-F01
	2.0 x 1.25mm	Super Yellow	Water Clear	590	2.0	30	120	110°	754-1098-1-ND	.18	1.31	2.63	754-1098-2-ND	2,000	53.00/M	APHCM2012SYCK-F01
	2.0 x 1.25mm	Green	Water Clear	525	3.3	25	300	110°	754-1099-1-ND	.72	5.36	10.73	754-1099-2-ND	2,000	215.00/M	APHCM2012ZGC-F01
15	1.6 x 1.6mm	Blue/Green/HE Red	Water Clear	470/525/621	3.2/3.2/2.0	30/30/30	40/180/400	120°	754-1318-1-ND	3.58	25.03	53.63	754-1318-2-ND	2,000	1073.00/M	APTF1616SEEVGAPBAC
	1.6 x 1.6mm	Blue/Green/HE Red	Water Clear	470/525/621	3.3/3.3/2.0	30/25/30	100/180/400	120°	754-1500-1-ND✔	1.47	10.99	21.98	754-1500-2-ND✔	2,000	439.50/M	APTF1616SEEZGQBDC
16	1.0 x 0.5mm	Green	Water Clear	570	2.1	30	40	120°	754-1101-1-ND	.24	1.76	3.53	754-1101-2-ND	2,000	71.00/M	APHHS1005CGCK
	1.0 x 0.5mm	Blue	Water Clear	470	3.2	30	60	120°	754-1102-1-ND	.56	4.16	8.33	754-1102-2-ND	2,000	167.00/M	APHHS1005PBC/A
	1.0 x 0.5mm	Blue	Water Clear	470	3.3	30	100	120°	754-1504-1-ND✔	.39	2.93	5.85	754-1504-2-ND✔	2,000	117.00/M	APHHS1005QBC/D
	1.0 x 0.5mm	Super Orange	Water Clear	601	2.1	30	160	120°	754-1103-1-ND	.30	2.21	4.43	754-1103-2-ND	2,000	89.00/M	APHHS1005SECK
	1.0 x 0.5mm	Hyper Red	Water Clear	630	1.95	30	150	120°	754-1104-1-ND	.30	2.21	4.43	754-1104-2-ND	2,000	89.00/M	APHHS1005SURCK
	1.0 x 0.5mm	Super Yellow	Water Clear	590	2.0	30	120	120°	754-1105-1-ND	.26	1.95	3.90	754-1105-2-ND	2,000	78.00/M	APHHS1005SYCK
	1.0 x 0.5mm	Green	Water Clear	525	3.3	25	300	120°	754-1503-1-ND✔	.70	5.25	10.50	754-1503-2-ND✔	2,000	210.00/M	APHHS1005ZGC
17	3.0 x 1.5mm	Green	Water Clear	570	2.1	30	90	70°	754-1106-1-ND	.22	1.61	3.23	754-1106-2-ND	2,000	65.00/M	APL3015CGCK-F01
	3.0 x 1.5mm	HE Red	Water Clear	625	2.0	30	20	70°	754-1107-1-ND	.17	1.24	2.48	754-1107-2-ND	2,000	50.00/M	APL3015EC-F01
	3.0 x 1.5mm	Mega Green	Water Clear	570	2.1	30	140	70°	754-1108-1-ND	.52	3.90	7.80	754-1108-2-ND	2,000	156.00/M	APL3015MGC-F01
	3.0 x 1.5mm	Blue	Water Clear	470	3.2	30	120	70°	754-1109-1-ND	.52	3.90	7.80	754-1109-2-ND	2,000	156.00/M	APL3015PBC/A-F01
	3.0 x 1.5mm	Blue	Water Clear	470	3.3	30	180	70°	754-1502-1-ND✔	.36	2.70	5.40	754-1502-2-ND✔	2,000	108.00/M	APL3015QBC/D-F01
	3.0 x 1.5mm	Super Orange	Water Clear	601	2.1	30	300	70°	754-1110-1-ND	.18	1.31	2.63	754-1110-2-ND	2,000	53.00/M	APL3015SECK-F01
	3.0 x 1.5mm	Super Green	Water Clear	568	2.2	25	20	70°	754-1111-1-ND	.15	1.13	2.25	754-1111-2-ND	2,000	45.00/M	APL3015SGC-F01
	3.0 x 1.5mm	Super Red	Water Clear	640	1.85	30	150	70°	754-1112-1-ND	.18	1.31	2.63	754-1112-2-ND	2,000	53.00/M	APL3015SRCPRV-F01
	3.0 x 1.5mm	Hyper Red	Water Clear	630	1.95	30	240	70°	754-1113-1-ND	.18	1.31	2.63	754-1113-2-ND	2,000	53.00/M	APL3015SURCK-F01
	3.0 x 1.5mm	Super Yellow	Water Clear	590	2.0	30	150	70°	754-1114-1-ND	.18	1.31	2.63	754-1114-2-ND	2,000	53.00/M	APL3015SYCK-F01
	3.0 x 1.5mm	Green	Water Clear	525	3.3	25	850	70°	754-1115-1-ND	.72	5.36	10.73	754-1115-2-ND	2,000	215.00/M	APL3015ZGC-F01
18	1.6 x 0.8mm	Green	Water Clear	570	2.1	30	40	120°	754-1116-1-ND	.17	1.28	2.55	754-1116-2-ND	2,000	51.00/M	APT1608CGCK
	1.6 x 0.8mm	HE Red	Water Clear	625	2.0	30	12	120°	754-1117-1-ND	.13	.98	1.95	754-1117-2-ND	2,000	39.00/M	APT1608EC
	1.6 x 0.8mm	Mega Green	Water Clear	570	2.1	30	70	120°	754-1118-1-ND	.56	4.16	8.33	754-1118-2-ND	2,000	167.00/M	APT1608MGC
	1.6 x 0.8mm	Blue	Water Clear	470	3.2	30	60	120°	754-1119-1-ND	.52	3.90	7.80	754-1119-2-ND	2,000	156.00/M	APT1608PBC/A
	1.6 x 0.8mm	Blue	Water Clear	470	3.3	30	100	120°	754-1434-1-ND✔	.33	2.44	4.88	754-1434-2-ND✔	2,000	97.50/M	APT1608QBC/D
	1.6 x 0.8mm	Blue	Water Clear	465	3.3	30	180	120°	754-1501-1-ND✔	.94	7.01	14.03	754-1501-2-ND✔	2,000	280.50/M	APT1608QBC/G
	1.6 x 0.8mm	Super Orange	Water Clear	601	2.1	30	160	120°	754-1120-1-ND	.16	1.16	2.33	754-1120-2-ND	2,000	47.00/M	APT1608SECK
	1.6 x 0.8mm	Super Green	Water Clear	568	2.2	25	15	120°	754-1121-1-ND	.13	.98	1.95	754-1121-2-ND	2,000	39.00/M	APT1608SGC
	1.6 x 0.8mm	Super Red	Water Clear	640	1.85	30	100	120°	754-1122-1-ND	.15	1.09	2.18	754-1122-2-ND	2,000	44.00/M	APT1608SRCPRV
	1.6 x 0.8mm	Hyper Red	Water Clear	630	1.95	30	150	120°	754-1123-1-ND	.16	1.16	2.33	754-1123-2-ND	2,000	47.00/M	APT1608SURCK
	1.6 x 0.8mm	Super Yellow	Water Clear	590	2.0	30	120	120°	754-1124-1-ND	.16	1.16	2.33	754-1124-2-ND	2,000	47.00/M	APT1608SYCK
	1.6 x 0.8mm	Yellow	Water Clear	588	2.1	30	8	120°	754-1125-1-ND	.13	.98	1.95	754-1125-2-ND	2,000	39.00/M	APT1608YC
	1.6 x 0.8mm	Green	Water Clear	525	3.3	25	300	120°	754-1126-1-ND	.72	5.36	10.73	754-1126-2-ND	2,000	215.00/M	APT1608ZGC
19	2.0 x 1.25mm	Green	Water Clear	570	2.1	30	40	120°	754-1127-1-ND	.17	1.24	2.48	754-1127-2-ND	2,000	50.00/M	APT2012CGCK
	2.0 x 1.25mm	HE Red	Water Clear	625	2.0	30	12	120°	754-1128-1-ND	.13	.98	1.95	754-1128-2-ND	2,000	39.00/M	APT2012EC
	2.0 x 1.25mm	Blue	Water Clear	470	3.2	30	60	120°	754-1129-1-ND	.52	3.90	7.80	754-1129-2-ND	2,000	156.00/M	APT2012PBC/A
	2.0 x 1.25mm	Blue	Water Clear	470	3.3	30	100	120°	754-1437-1-ND✔	.43	3.19	6.38	754-1437-2-ND✔	2,000	127.50/M	APT2012QBC/D
	2.0 x 1.25mm	Super Orange	Water Clear	601	2.1	30	160	120°	754-1130-1-ND	.17	1.24	2.48	754-1130-2-ND	2,000	50.00/M	APT2012SECK
	2.0 x 1.25mm	Super Green	Water Clear	568	2.2	25	15	120°	754-1131-1-ND	.13	.98	1.95	754-1131-2-ND	2,000	39.00/M	APT2012SGC
	2.0 x 1.25mm	Super Red	Water Clear	640	1.85	30	100	120°	754-1132-1-ND	.16	1.16	2.33	754-1132-2-ND	2,000	47.00/M	APT2012SRCPRV
	2.0 x 1.25mm	Hyper Red	Water Clear	630	1.95	30	150	120°	754-1133-1-ND	.17	1.24	2.48	754-1133-2-ND	2,000	50.00/M	APT2012SURCK
	2.0 x 1.25mm	Super Yellow	Water Clear	590	2.0	30	120	120°	754-1134-1-ND	.17	1.24	2.48	754-1134-2-ND	2,000	50.00/M	APT2012SYCK
	2.0 x 1.25mm	Yellow	Water Clear	588	2.1	30	8	120°	754-1135-1-ND	.13	.98	1.95	754-1135-2-ND	2,000	39.00/M	APT2012YC
	2.0 x 1.25mm	Green	Water Clear	525	3.3	25	300	120°	754-1438-1-ND✔	.72	5.36	10.73	754-1438-2-ND✔	2,000	214.50/M	APT2012ZGC
20	3.2 x 1.6mm	Green	Water Clear	570	2.1	30	40	120°	754-1136-1-ND	.20	1.50	3.00	754-1136-2-ND	2,000	60.00/M	APT3216CGCK
	3.2 x 1.6mm	HE Red	Water Clear	625	2.0	30	12	120°	754-1137-1-ND	.17	1.24	2.48	754-1137-2-ND	2,000	50.00/M	APT3216EC
	3.2 x 1.6mm	Mega Green	Water Clear	570	2.1	30	70	120°	754-1138-1-ND	.65	4.88	9.75	754-1138-2-ND	2,000	195.00/M	APT3216MGC
	3.2 x 1.6mm	Blue	Water Clear	470	3.2	30	60	120°	754-1139-1-ND	.52	3.90	7.80	754-1139-2-ND	2,000	156.00/M	APT3216PBC/A
	3.2 x 1.6mm	Blue	Water Clear	470	3.3	30	100	120°	754-1439-1-ND✔	.43	3.19	6.38	754-1439-2-ND✔	2,000	127.50/M	APT3216QBC/D
	3.2 x 1.6mm	Super Orange	Water Clear	601	2.1	30	160	120°	754-1140-1-ND	.18	1.31	2.63	754-1140-2-ND	2,000	53.00/M	APT3216SECK
	3.2 x 1.6mm	Super Green	Water Clear	568	2.2	25	15	120°	754-1141-1-ND	.17	1.24	2.48	754-1141-2-ND	2,000	50.00/M	APT3216SGC
	3.2 x 1.6mm	Super Red	Water Clear	640	1.85	30	80	120°	754-1142-1-ND	.17	1.24	2.48	754-1142-2-ND	2,000	50.00/M	APT3216SRCPRV
	3.2 x 1.6mm	Hyper Red	Water Clear	630	1.95	30	150	120°	754-1143-1-ND	.18	1.31	2.63	754-1143-2-ND	2,000	53.00/M	APT3216SURCK
	3.2 x 1.6mm	Super Yellow	Water Clear	590	2.0	30	120	120°	754-1144-1-ND	.18	1.31	2.63	754-1144-2-ND	2,000	53.00/M	APT3216SYCK
	3.2 x 1.6mm	Yellow	Water Clear	588	2.1	30	8	120°	754-1145-1-ND	.17	1.24	2.48	754-1145-2-ND	2,000	50.00/M	APT3216YC
	3.2 x 1.6mm	Green	Water Clear	525	3.3	25	300	120°	754-1440-1-ND✔	.72	5.36	10.73	754-1440-2-ND✔	2,000	214.50/M	APT3216ZGC
21	1.6 x 1.25mm	Green/HE Red	Water Clear	568/625	2.2/2.0	25/30	12/12	120°	754-1146-1-ND	.30	2.21	4.43	754-1146-2-ND	2,000	89.00/M	APTB1612ESGC-F01
	1.6 x 1.25mm	Blue/HE Red	Water Clear	470/630	3.3/1.95	30/30	90/220	120°	754-1441-1-ND✔	.85	6.34	12.68	754-1441-2-ND✔	2,000	253.50/M	APTB1612SURKQBDC-F01
	1.6 x 1.25mm	Green/Yellow	Water Clear	570/590	2.1/2.0	30/30	50/150	120°	754-1147-1-ND	.33	2.44	4.88	754-1147-2-ND	2,000	98.00/M	APTB1612SYKCGKC-F01
	1.6 x 1.25mm	Green/Yellow	Water Clear	568/588	2.2/2.1	25/30	12/8	120°	754-1148-1-ND	.30	2.21	4.43	754-1148-2-ND	2,000	89.00/M	APTB1612YSGC-F01

✔ ***NEW!*** § Chromaticity Coordinates ‡ Iv (mcd) @ 10mA ▼ Iv (mcd) @ 30mA ✻ Iv (mcd) @ 50mA ◊ Iv (mcd) @ 120mA ▲ Iv (mcd) @ 150mA ★ Iv (mcd) @ 250mA
† Iv (mcd) @ 350mA Δ Iv (mcd) @ 700mA • Bulk

(Continued)

Surface Mount LEDs *(Cont.)*

Dimensions in mm

Fig. 23

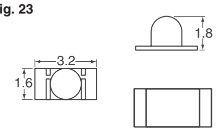

Fig. 24

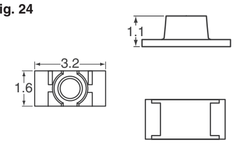

Fig. 25

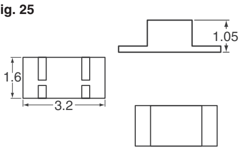

Fig. 26

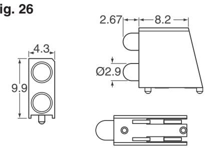

Fig. 27

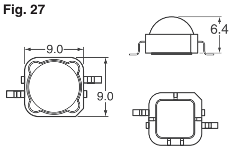

Fig. 28

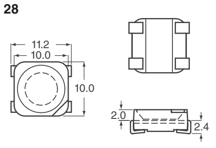

Fig. 29

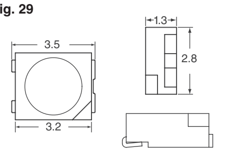

Fig. 30 ***NEW!***

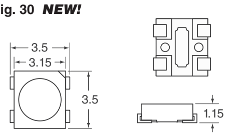

Fig. 31

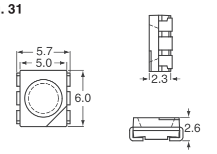

Fig. 32

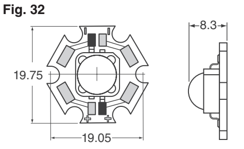

Fig.	Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kingbright Part No.
										1	10	25		Qty.	Pricing	
22	1.6 x 1.5mm	Green/HE Red	Water Clear	568/625	2.2/2.0	25/30	12/12	120°	754-1149-1-ND	.30	2.21	4.43	754-1149-2-ND	2,000	89.00/M	APTB1615ESGC-F01
	1.6 x 1.5mm	Green/Yellow	Water Clear	570/590	2.1/2.0	30/30	50/150	120°	754-1150-1-ND	.33	2.44	4.88	754-1150-2-ND	2,000	98.00/M	APTB1615SYKCGKC-F01
	1.6 x 1.5mm	Green/Yellow	Water Clear	568/588	2.2/2.1	25/30	12/8	120°	754-1151-1-ND	.30	2.21	4.43	754-1151-2-ND	2,000	89.00/M	APTB1615YSGC-F01
23	3.2 x 1.6mm	Green	Water Clear	570	2.1	30	200	50°	754-1152-1-ND	.30	2.21	4.43	754-1152-2-ND	2,000	89.00/M	APTD3216CGCK
	3.2 x 1.6mm	HE Red	Water Clear	625	2.0	30	50	40°	754-1153-1-ND	.23	1.73	3.45	754-1153-2-ND	2,000	69.00/M	APTD3216EC
	3.2 x 1.6mm	Mega Green	Water Clear	570	2.1	30	350	50°	754-1154-1-ND	.78	5.85	11.70	754-1154-2-ND	2,000	234.00/M	APTD3216MGC
	3.2 x 1.6mm	Blue	Water Clear	470	3.2	30	220	50°	754-1155-1-ND	.56	4.16	8.33	754-1155-2-ND	2,000	167.00/M	APTD3216PBC/A
	3.2 x 1.6mm	Blue	Water Clear	470	3.3	30	500	40°	754-1442-1-ND✔	.49	3.68	7.35	754-1442-2-ND✔	2,000	147.00/M	APTD3216QBC/D
	3.2 x 1.6mm	Super Orange	Water Clear	601	2.1	30	700	50°	754-1156-1-ND	.28	2.06	4.13	754-1156-2-ND	2,000	83.00/M	APTD3216SECK
	3.2 x 1.6mm	Super Green	Water Clear	568	2.2	25	50	40°	754-1157-1-ND	.23	1.73	3.45	754-1157-2-ND	2,000	69.00/M	APTD3216SGC
	3.2 x 1.6mm	Super Red	Water Clear	640	1.85	30	300	50°	754-1158-1-ND	.23	1.73	3.45	754-1158-2-ND	2,000	69.00/M	APTD3216SRCPRV
	3.2 x 1.6mm	Hyper Red	Water Clear	630	1.95	30	500	50°	754-1159-1-ND	.28	2.06	4.13	754-1159-2-ND	2,000	83.00/M	APTD3216SURCK
	3.2 x 1.6mm	Super Yellow	Water Clear	590	2.1	30	250	50°	754-1160-1-ND	.28	2.06	4.13	754-1160-2-ND	2,000	83.00/M	APTD3216SYCK
	3.2 x 1.6mm	Yellow	Water Clear	588	2.1	30	30	40°	754-1161-1-ND	.23	1.73	3.45	754-1161-2-ND	2,000	69.00/M	APTD3216YC
	3.2 x 1.6mm	Green	Water Clear	525	3.3	25	850	50°	754-1444-1-ND✔	.65	4.88	9.75	754-1444-2-ND✔	2,000	195.00/M	APTD3216ZGC
24	3.2 x 1.6mm	Green	Water Clear	570	2.1	30	200	70°	754-1162-1-ND	.21	1.58	3.15	754-1162-2-ND	2,000	63.00/M	APTL3216CGCK
	3.2 x 1.6mm	Blue	Water Clear	470	3.2	30	200	70°	754-1163-1-ND	.52	3.90	7.80	754-1163-2-ND	2,000	156.00/M	APTL3216PBC/A
	3.2 x 1.6mm	Blue	Water Clear	470	3.3	30	340	70°	754-1445-1-ND✔	.43	3.19	6.38	754-1445-2-ND✔	2,000	127.50/M	APTL3216QBC/D
	3.2 x 1.6mm	Super Orange	Water Clear	601	2.1	30	550	70°	754-1164-1-ND	.19	1.43	2.85	754-1164-2-ND	2,000	57.00/M	APTL3216SECK
	3.2 x 1.6mm	Hyper Red	Water Clear	630	1.95	30	550	70°	754-1165-1-ND	.19	1.43	2.85	754-1165-2-ND	2,000	57.00/M	APTL3216SURCK
	3.2 x 1.6mm	Super Yellow	Water Clear	590	2.0	30	350	70°	754-1166-1-ND	.19	1.43	2.85	754-1166-2-ND	2,000	57.00/M	APTL3216SYCK
	3.2 x 1.6mm	Green	Water Clear	525	3.3	25	1100	70°	754-1446-1-ND✔	.78	5.85	11.70	754-1446-2-ND✔	2,000	234.00/M	APTL3216ZGC
25	3.2 x 1.6mm	Green	Water Clear	570	2.1	30	40	120°	754-1167-1-ND	.21	1.58	3.15	754-1167-2-ND	2,000	63.00/M	APTR3216CGCK
	3.2 x 1.6mm	HE Red	Water Clear	625	2.0	30	12	120°	754-1168-1-ND	.17	1.24	2.48	754-1168-2-ND	2,000	50.00/M	APTR3216EC
	3.2 x 1.6mm	Blue	Water Clear	470	3.2	30	60	120°	754-1169-1-ND	.56	4.16	8.33	754-1169-2-ND	2,000	167.00/M	APTR3216PBC/A
	3.2 x 1.6mm	Blue	Water Clear	470	3.3	30	100	120°	754-1447-1-ND✔	.43	3.19	6.38	754-1447-2-ND✔	2,000	127.50/M	APTR3216QBC/D
	3.2 x 1.6mm	Super Green	Water Clear	568	2.2	25	15	120°	754-1171-1-ND	.16	1.16	2.33	754-1171-2-ND	2,000	47.00/M	APTR3216SGC
	3.2 x 1.6mm	Super Red	Water Clear	640	1.85	30	80	120°	754-1172-1-ND	.18	1.31	2.63	754-1172-2-ND	2,000	53.00/M	APTR3216SRCPRV
	3.2 x 1.6mm	Hyper Red	Water Clear	630	1.95	30	150	120°	754-1173-1-ND	.18	1.31	2.63	754-1173-2-ND	2,000	53.00/M	APTR3216SURCK
	3.2 x 1.6mm	Yellow	Water Clear	588	2.1	30	8	120°	754-1175-1-ND	.17	1.24	2.48	754-1175-2-ND	2,000	50.00/M	APTR3216YC
	3.2 x 1.6mm	Super Yellow	Water Clear	590	2.0	30	120	120°	754-1174-1-ND	.18	1.31	2.63	754-1174-2-ND	2,000	53.00/M	APTR3216SYCK
	3.2 x 1.6mm	Green	Water Clear	525	3.3	25	300	120°	754-1448-1-ND✔	.72	5.36	10.73	754-1448-2-ND✔	2,000	214.50/M	APTR3216ZGC
Circuit Board Indicators																
26	3mm	HE Red	Diffused	625	2.0	30	20‡	40°	754-1237-1-ND	.78	5.85	11.70	—	—	—	WP7104ALUP/2ID-0L
	3mm	Yellow	Diffused	588	2.1	30	15‡	40°	754-1239-1-ND	1.28	9.60	19.20	754-1239-2-ND	250	128.00	WP7104ALUP/2YD-0L
High Power LEDs																
27	9.0 x 9.0mm	Blue	Water Clear	458	3.2	350	5500†	100°	754-1314-1-ND	8.52	63.90	—	—	—	—	AAD1-9090QB10ZC
	9.0 x 9.0mm	Blue	Water Clear	460	3.9	700	10000Δ	100°	754-1317-1-ND	11.34	85.05	—	754-1317-2-ND	500	2041.00	AAD1-9090QB11ZC/3
	9.0 x 9.0mm	Red-Orange	Water Clear	625	2.5	350	12000†	100°	754-1315-1-ND	5.04	37.80	—	754-1315-2-ND	500	907.00	AAD1-9090SE28ZC
	9.0 x 9.0mm	Yellow	Water Clear	588	2.5	350	11500†	100°	754-1316-1-ND	5.04	37.80	—	754-1316-2-ND	500	907.00	AAD1-9090SY28ZC
28	10 x 10mm	Red-Orange	Water Clear	625	2.5	350	32000†	120°	754-1320-1-ND	3.84	28.80	—	754-1320-2-ND	500	691.00	AA1010SE28ZC
	10 x 10mm	Super Yellow	Water Clear	588	2.5	350	9000†	120°	754-1321-1-ND	3.84	28.80	—	754-1321-2-ND	500	691.00	AA1010SY28ZC
29	3.5 x 2.8mm	Blue	Water Clear	457	3.5	150	1000▲	120°	754-1323-1-ND	3.18	23.85	—	—	—	—	AA3529QB24ZS
30	3.5 x 3.5mm	Blue	Water Clear	457	3.2	150	1000▲	120°	754-1381-1-ND✔	2.60	19.50	39.00	—	—	—	AA3535QB24Z1S
	3.5 x 3.5mm	Blue	Water Clear	450	3.5	150	1000▲	120°	754-1497-1-ND✔	2.60	19.46	38.93	754-1497-2-ND✔	200	207.60	AA3535QB25Z1S
	3.5 x 3.5mm	Hyper Orange	Water Clear	618	2.9	150	14000▲	120°	754-1382-1-ND✔	1.08	8.06	16.13	—	—	—	AA3535SEL1Z1S
	3.5 x 3.5mm	Super Yellow	Water Clear	590	3.0	150	4000▲	120°	754-1383-1-ND✔	1.08	8.06	16.13	—	—	—	AA3535SYL1Z1S
	3.5 x 3.5mm	Green	Water Clear	525	3.4	150	6000▲	120°	754-1384-1-ND✔	4.59	34.39	68.78	—	—	—	AA3535ZG24Z1S
	3.5 X 3.5mm	Green	Water Clear	525	3.5	150	6300▲	120°	754-1496-1-ND✔	3.73	27.98	55.95	754-1496-2-ND✔	200	298.40	AA3535ZG25Z1S
31	5.0 x 6.0mm	Blue/	Water Clear	470/	3.2/	30	250▼/	100°	754-1328-1-ND	3.18	23.85	—	754-1328-2-ND	500	572.50	AAAF5060PBESEEVGEC
	5.0 x 6.0mm	Green/	Water Clear	525/	3.2/	30	600▼/	100°								
	5.0 x 6.0mm	Hyper Orange	Water Clear	621	2.0	50	1000✻	100°								
	5.0 x 6.0mm	Blue/	Water Clear	470/	3.3/	30	250▼/	100°	754-1329-1-ND	2.22	16.65	—	—	—	—	AAAF5060QBDZGSEEC
	5.0 x 6.0mm	Green/	Water Clear	525/	3.3/	30	650▼/	100°								
	5.0 x 6.0mm	Hyper Red	Water Clear	621	2.0	50	1000✻	100°								
	5.0 x 6.0mm	Blue/	Water Clear	465/	3.3/	30/	350▼/	100°	754-1495-1-ND✔	2.44	18.30	36.60	754-1495-2-ND✔	500	439.20	AAAF5060QBFSEEZGC
	5.0 x 6.0mm	Green/	Water Clear	525/	3.3/	30/	650▼/	100°								
	5.0 x 6.0mm	Hyper Red	Water Clear	621	2.0	50	1000✻	100°								
	5.0 x 6.0mm	Blue/	Water Clear	465/	3.3/	30/	350▼/	100	754-1494-1-ND✔	2.44	18.30	36.60	754-1494-2-ND✔	500	439.20	AAAF5060QBFSURZGC
	5.0 x 6.0mm	Green/	Water Clear	525/	3.3/	30/	650▼/	100								
	5.0 x 6.0mm	Hyper Red	Water Clear	630	1.9	50	500✻	100								
32	3W w/star brd	Red/	Water Clear	625/	2.5/	350	8000/	135°	754-1331-5-ND•	18.90	—	365.40	—	—	—	AAD1-9090BRGC-01/3-S
	3W w/star brd	Green/	Water Clear	530/	3.3/	350	16000†/	135°								
	3W w/star brd	Blue	Water Clear	458	3.2	350	3500	135°								

✔ ***NEW!*** § Chromaticity Coordinates ‡ Iv (mcd) @ 10mA ▼ Iv (mcd) @ 30mA ✻ Iv (mcd) @ 50mA ◊ Iv (mcd) @ 120mA ▲ Iv (mcd) @ 150mA ★ Iv (mcd) @ 250mA
† Iv (mcd) @ 350mA Δ Iv (mcd) @ 700mA • Bulk

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Surface Mount LEDs *(Cont.)*

Dimensions in mm

Fig. 33

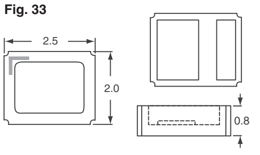

Fig. 34

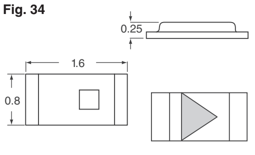

Fig. 35 ***NEW!***

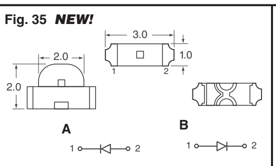

Fig. 36 ***NEW!***

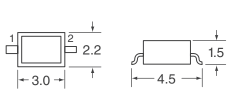

Fig. 37 ***NEW!***

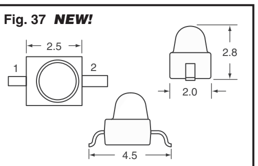

Fig. 38 ***NEW!***

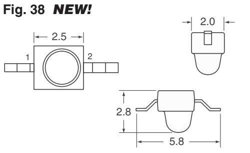

Fig. 39 ***NEW!***

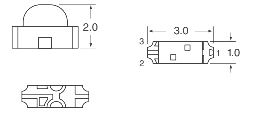

Fig. 40 ***NEW!***

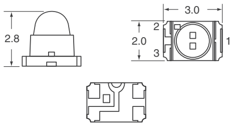

Fig. 41 ***NEW!***

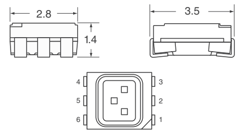

Fig. 42 ***NEW!***

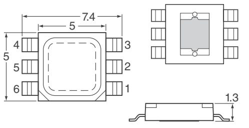

Fig.	Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kingbright Part No.
33	2.5 x 2.0mm	Blue	Water Clear	458	3.5	250	2500★	120°	754-1346-1-ND	7.86	58.95	—	—	—	—	AT2520QB10ZS
	2.5 x 2.0mm	Blue	Water Clear	458	3.2	350	3000▲	120°	754-1385-1-ND✔	8.25	61.88	123.75	—	—	—	AT2520QB10ZS-350MA
	2.5 x 2.0mm	Red-Orange	Water Clear	623	2.3	250	4500★	130°	754-1347-1-ND	9.18	68.85	—	—	—	—	AT2520SE9ZS
	2.5 x 2.0mm	Red-Orange	Water Clear	623	2.5	350	6500†	130°	754-1386-1-ND✔	8.25	61.88	123.75	—	—	—	AT2520SE9ZS-350MA
	2.5 x 2.0mm	Super Yellow	Water Clear	591	2.3	250	4500★	130°	754-1348-1-ND	9.18	68.85	—	—	—	—	AT2520SY9ZS
	2.5 x 2.0mm	Super Yellow	Water Clear	591	2.3	350	7000†	130°	754-1387-1-ND✔	8.25	61.88	123.75	—	—	—	AT2520SY9ZS-350MA
	2.5 x 2.0mm	Green	Water Clear	530	3.3	350	11000†	120°	754-1388-1-ND✔	10.03	75.23	150.45	—	—	—	AT2520ZG10ZS-350MA
34	1.6 x 0.8mm	Blue	Water Clear	470	3.2	20	35	120°	754-1350-1-ND	.52	3.90	7.80	754-1350-2-ND	2,000	156.00/M	APG1608PBC/A
	1.6 x 0.8mm	Blue	Water Clear	470	3.3	20	70	120°	754-1351-1-ND	.39	2.93	5.85	754-1351-2-ND	2,000	117.00/M	APG1608QBC/D
	1.6 x 0.8mm	Blue	Water Clear	470	3.3	20	95	120°	754-1352-1-ND	.72	5.36	10.73	754-1352-2-ND	2,000	214.50/M	APG1608QBC/E
	1.6 x 0.8mm	Super Orange	Water Clear	601	2.05	20	200	120°	754-1353-1-ND	.18	1.35	2.70	754-1353-2-ND	2,000	58.50/M	APG1608SEKC/T
	1.6 x 0.8mm	Super Yellow	Water Clear	590	2.05	20	100	120°	754-1354-1-ND	.18	1.35	2.70	754-1354-2-ND	2,000	54.00/M	APG1608SYKC/T
	1.6 x 0.8mm	Green	Water Clear	525	3.2	20	200	120°	754-1355-1-ND	1.11	8.29	16.58	754-1355-2-ND	2,000	331.50/M	APG1608VGC/A
	1.6 x 0.8mm	Green	Water Clear	525	3.3	20	420	120°	754-1356-1-ND	.65	4.88	9.75	754-1356-2-ND	2,000	195.00/M	APG1608ZGC
	1.6 x 0.8mm	Green	Water Clear	570	2.1	20	60	120°	754-1357-1-ND	.20	1.46	2.93	754-1357-2-ND	2,000	58.50/M	APG1608CGKC/T
	1.6 x 0.8mm	Blue	Water Clear	470	3.2	20	35	120°	754-1358-1-ND	.72	5.36	10.73	—	—	—	APG1608PBAZC-RV
	1.6 x 0.8mm	Hyper Red	Water Clear	630	2.0	20	320	120°	754-1359-1-ND	.20	1.46	2.93	754-1359-2-ND	2,000	58.50/M	APG1608SURKC/T
	1.6 x 0.8mm	Green	Water Clear	525	3.2	20	200	120°	754-1360-1-ND	1.43	10.73	21.45	—	—	—	APG1608VGAZC-RV
35A	3.0 x 1.0mm	Green	Water Clear	570	2.1	20	60	120°	754-1361-1-ND✔	.30	2.21	4.43	754-1361-2-ND✔	2,000	88.50/M	APECVA3010CGCK
	3.0 x 1.0mm	HE Red	Water Clear	625	2.0	20	15	120°	754-1362-1-ND✔	.24	1.76	3.53	754-1362-2-ND✔	2,000	70.50/M	APECVA3010EC
	3.0 x 1.0mm	Mega Green	Water Clear	570	2.1	20	80	120°	754-1364-1-ND✔	.63	4.69	9.38	754-1364-2-ND✔	2,000	187.50/M	APECVA3010MGC
	3.0 x 1.0mm	Blue	Water Clear	470	3.2	20	60	120°	754-1366-1-ND✔	.59	4.39	8.78	—	—	—	APECVA3010PBC/A
	3.0 x 1.0mm	Blue	Water Clear	470	3.3	30	90	120°	754-1508-1-ND✔	.43	3.19	6.38	754-1508-2-ND✔	2,000	127.50/M	APECVA3010QBC/D
	3.0 x 1.0mm	Super Orange	Water Clear	601	2.1	20	250	120°	754-1367-1-ND✔	.28	2.06	4.13	754-1367-2-ND✔	2,000	82.50/M	APECVA3010SECK
	3.0 x 1.0mm	Super Green	Water Clear	568	2.2	20	15	120°	754-1368-1-ND✔	.24	1.76	3.53	754-1368-2-ND✔	2,000	70.50/M	APECVA3010SGC
	3.0 x 1.0mm	Super Yellow	Water Clear	590	2.0	20	150	120°	754-1370-1-ND✔	.28	2.06	4.13	754-1370-2-ND✔	2,000	82.50/M	APECVA3010SYCK
	3.0 x 1.0mm	Yellow	Water Clear	588	2.1	20	7	120°	754-1371-1-ND✔	.24	1.76	3.53	754-1371-2-ND✔	2,000	70.50/M	APECVA3010YC
	3.0 x 1.0mm	Green	Water Clear	525	3.3	20	250	120°	754-1372-1-ND✔	.69	5.14	10.28	754-1372-2-ND✔	2,000	205.50/M	APECVA3010ZGC
35B	3.0 x 1.0mm	Super Red	Water Clear	640	1.85	20	100	120°	754-1369-1-ND✔	.24	1.76	3.53	754-1369-2-ND✔	2,000	70.50/M	APECVA3010SRCPRV
36	3.0 x 2.2mm	HE Red	Water Clear	625	2.0	30	30	90°	754-1391-1-ND✔	.36	2.70	5.40	754-1391-2-ND✔	1,500	108.00/M	AA3022EC-4.5SF
	3.0 x 2.2mm	Super Green	Water Clear	568	2.2	25	20	90°	754-1392-1-ND✔	.36	2.70	5.40	754-1392-2-ND✔	1,500	108.00/M	AA3022SGC-4.5SF
	3.0 x 2.2mm	Super Red	Water Clear	640	1.85	30	150	90°	754-1393-1-ND✔	.36	2.70	5.40	754-1393-2-ND✔	1,500	108.00/M	AA3022SRC-4.5SF
	3.0 x 2.2mm	Yellow	Water Clear	588	2.1	30	10	90°	754-1394-1-ND✔	.36	2.70	5.40	754-1394-2-ND✔	1,500	108.00/M	AA3022YC-4.5SF
37	2.5 x 2.0mm	Green	Water Clear	570	2.1	30	400	20°	754-1406-1-ND✔	.33	2.44	4.88	754-1406-2-ND✔	1,000	97.50	AM2520CGCK03
	2.5 x 2.0mm	HE Red	Water Clear	625	2.0	30	70	20°	754-1408-1-ND✔	.26	1.95	3.90	754-1408-2-ND✔	1,000	78.00	AM2520EC03
	2.5 x 2.0mm	Blue	Water Clear	470	3.3	30	500	20°	754-1410-1-ND✔	.82	6.11	12.23	754-1410-2-ND✔	1,000	244.50	AM2520QBC/D03
	2.5 x 2.0mm	Super Orange	Water Clear	601	2.1	30	1800	20°	754-1412-1-ND✔	.33	2.44	4.88	754-1412-2-ND✔	1,000	97.50	AM2520SECK03
	2.5 x 2.0mm	Super Green	Water Clear	568	2.2	25	80	20°	754-1414-1-ND✔	.33	2.44	4.88	754-1414-2-ND✔	1,000	97.50	AM2520SGC03
	2.5 x 2.0mm	Super Red	Water Clear	640	1.85	30	600	20°	754-1416-1-ND✔	.33	2.44	4.88	754-1416-2-ND✔	1,000	97.50	AM2520SRC03-RV
	2.5 x 2.0mm	Hyper Red	Water Clear	630	1.95	30	1800	20°	754-1418-1-ND✔	.33	2.44	4.88	754-1418-2-ND✔	1,000	97.50	AM2520SURCK03
	2.5 x 2.0mm	Yellow	Water Clear	588	2.1	30	50	20°	754-1420-1-ND✔	.30	2.21	4.43	754-1420-2-ND✔	1,000	88.50	AM2520YC03
	2.5 x 2.0mm	Green	Water Clear	525	3.3	25	2500	20°	754-1422-1-ND✔	.82	6.11	12.23	754-1422-2-ND✔	1,000	244.50	AM2520ZGC03
38	2.5 x 2.0mm	Green	Water Clear	570	2.1	30	400	20°	754-1407-1-ND✔	.33	2.44	4.88	754-1407-2-ND✔	1,000	97.50	AM2520CGCK09
	2.5 x 2.0mm	HE Red	Water Clear	625	2.0	30	70	20°	754-1409-1-ND✔	.26	1.95	3.90	754-1409-2-ND✔	1,000	78.00	AM2520EC09
	2.5 x 2.0mm	Blue	Water Clear	470	3.3	30	500	20°	754-1411-1-ND✔	.82	6.11	12.23	754-1411-2-ND✔	1,000	244.50	AM2520QBC/D09
	2.5 x 2.0mm	Super Orange	Water Clear	601	2.1	30	1800	20°	754-1413-1-ND✔	.33	2.44	4.88	754-1413-2-ND✔	1,000	97.50	AM2520SECK09
	2.5 x 2.0mm	Super Green	Water Clear	568	2.2	25	80	20°	754-1415-1-ND✔	.33	2.44	4.88	754-1415-2-ND✔	1,000	97.50	AM2520SGC09
	2.5 x 2.0mm	Super Red	Water Clear	640	1.85	30	600	20°	754-1417-1-ND✔	.33	2.44	4.88	754-1417-2-ND✔	1,000	97.50	AM2520SRC09-RV
	2.5 x 2.0mm	Hyper Red	Water Clear	630	1.95	30	1800	20°	754-1419-1-ND✔	.33	2.44	4.88	754-1419-2-ND✔	1,000	97.50	AM2520SURCK09
	2.5 x 2.0mm	Yellow	Water Clear	588	2.1	30	50	20°	754-1421-1-ND✔	.30	2.21	4.43	754-1421-2-ND✔	1,000	88.50	AM2520YC09
	2.5 x 2.0mm	Green	Water Clear	525	3.3	25	2500	20°	754-1423-1-ND✔	.82	6.11	12.23	754-1423-2-ND✔	1,000	244.50	AM2520ZGC09
39	3.0 x 1.0mm	Yellow/HE Red	Water Clear	588/625	2.1/2.0	30	6/15	140°	754-1426-1-ND✔	.36	2.70	5.40	754-1426-2-ND✔	2,000	108.00/M	APBVA3010EYC
	3.0 x 1.0mm	Green/Hyper Red	Water Clear	570/630	2.1/1.95	30	50/200	140°	754-1427-1-ND✔	.39	2.93	5.85	754-1427-2-ND✔	2,000	117.00/M	APBVA3010SURKCGKC
	3.0 x 1.0mm	Green/Super Yellow	Water Clear	570/590	2.1/2.0	30	50/150	140°	754-1428-1-ND✔	.39	2.93	5.85	754-1428-2-ND✔	2,000	117.00/M	APBVA3010SYKCGKC
	3.0 x 1.0mm	Super Green/Yellow	Water Clear	568/588	2.2/2.1	25/30	15/6	140°	754-1429-1-ND✔	.36	2.70	5.40	754-1429-2-ND✔	2,000	108.00/M	APBVA3010YSGC
40	3.0 x 2.0mm	Green/Super Yellow	Water Clear	570/590	2.1/2.0	30	150/750	15°	754-1430-1-ND✔	.65	4.88	9.75	754-1430-2-ND✔	2,000	195.00/M	APBVDA3020CGKSYKC
	3.0 x 2.0mm	Green/Hyper Red	Water Clear	570/630	2.1/1.95	30	320/900	15°	754-1431-1-ND✔	.65	4.88	9.75	754-1431-2-ND✔	2,000	195.00/M	APBVDA3020SURKCGKC
41	3.5 x 2.8mm	Blue/Green/HE Red	Diffused	465/525/625	3.3/3.3/2.2	30/30/50	200/900/1700	120°	754-1483-1-ND✔	3.19	23.89	47.78	754-1483-2-ND✔	1,500	955.50/M	AAAF3528QBFSEJ3ZGW
42	5.0 x 5.0mm 5.0 x 5.0mm 5.0 x 5.0mm	Blue/ Green/ Red-Orange	Water Clear Water Clear Water Clear	450/ 525/ 624	3.5/ 3.5/ 2.3	150/ 150/ 120	1000▲/ 6000▲/ 4000◊	120° 120° 120°	754-1486-1-ND✔	8.71	65.33	130.65	754-1486-2-ND✔	200	696.80	AAAF5051-03

✔ ***NEW!*** § Chromaticity Coordinates ‡ Iv (mcd) @ 10mA ▼ Iv (mcd) @ 30mA ✻ Iv (mcd) @ 50mA ◊ Iv (mcd) @ 120mA ▲ Iv (mcd) @ 150mA ★ Iv (mcd) @ 250mA
† Iv (mcd) @ 350mA Δ Iv (mcd) @ 700mA • Bulk

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Kingbright
WWW.KINGBRIGHTUSA.COM

NEW! Single Digit Numeric Displays

Fig. 1

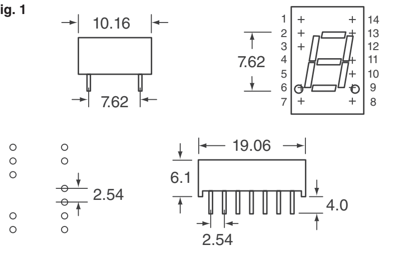

Fig. 2

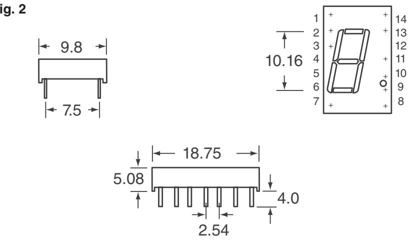

Fig. 3

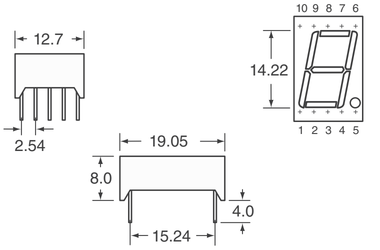

Fig. 4

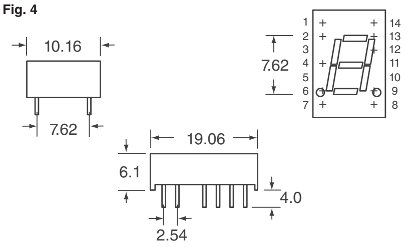

Fig. 5

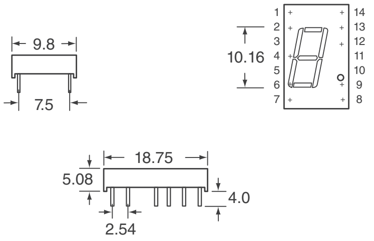

Fig. 6

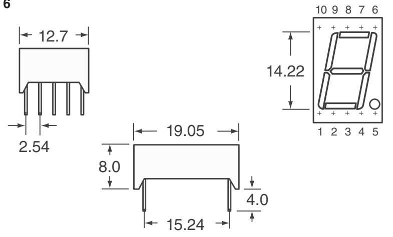

Fig.	Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 10mA	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Kingbright Part No.
1	7.62mm	HE Red	White Diffused	625	2.0	30	8500	754-1452-5-ND	1.30	25.16	81.55	SA03-11EWA
	7.62mm	Green	White Diffused	568	2.2	25	8000	754-1453-5-ND	1.24	23.93	77.55	SA03-11GWA
	7.62mm	Super Red	White Diffused	640	1.85	30	26000	754-1454-5-ND	1.36	26.32	85.31	SA03-11SRWA
2	10.16mm	HE Red	White Diffused	625	2.0	30	8000	754-1455-5-ND	1.30	25.16	81.55	SA04-11EWA
	10.16mm	Green	White Diffused	568	2.2	25	12000	754-1456-5-ND	1.24	23.93	77.55	SA04-11GWA
	10.16mm	Super Red	White Diffused	640	1.85	30	36000	754-1457-5-ND	1.36	26.32	85.31	SA04-11SRWA
3	14.2mm	HE Red	White Diffused	625	2.0	30	6400	754-1458-5-ND	1.10	21.32	69.09	SA56-11EWA
	14.2mm	Green	White Diffused	568	2.2	25	10500	754-1459-5-ND	1.15	22.19	71.91	SA56-11GWA
	14.2mm	Super Red	White Diffused	640	1.85	30	36000	754-1460-5-ND	1.27	24.51	79.43	SA56-11SRWA
4	7.62mm	HE Red	White Diffused	625	2.0	30	8500	754-1461-5-ND	1.30	25.16	81.55	SC03-12EWA
	7.62mm	Green	White Diffused	568	2.2	25	8000	754-1462-5-ND	1.24	23.93	77.55	SC03-12GWA
	7.62mm	Super Red	White Diffused	640	1.85	30	26000	754-1463-5-ND	1.36	26.32	85.31	SC03-12SRWA
5	10.16mm	HE Red	White Diffused	625	2.0	30	8000	754-1464-5-ND	1.30	25.16	81.55	SC04-11EWA
	10.16mm	Green	White Diffused	568	2.2	25	12000	754-1484-5-ND	1.24	23.93	77.55	SC04-11GWA
	10.16mm	Super Red	White Diffused	640	1.85	30	36000	754-1485-5-ND	1.36	26.32	85.31	SC04-11SRWA
6	14.2mm	HE Red	White Diffused	625	2.0	30	6400	754-1465-5-ND	1.21	23.35	75.67	SC56-11EWA
	14.2mm	Green	White Diffused	568	2.2	25	10500	754-1466-5-ND	1.15	22.19	71.91	SC56-11GWA
	14.2mm	Super Red	White Diffused	640	1.85	30	36000	754-1467-5-ND	1.27	24.51	79.43	SC56-11SRWA

NEW! Light Bars

Description	Emitted Color	Lens	Dominant Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 10mA	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Kingbright Part No.
7.5 x 14mm	Green	Green Diffused	568	2.2	25	52	754-1449-5-ND	.66	12.69	41.13	DE2GD
7.5 x 14mm	HE Red	Red Diffused	625	2.0	30	31	754-1450-5-ND	.66	12.69	41.13	DE2ID
7.5 x 14mm	Super Red	Red Diffused	640	1.85	30	300†	754-1451-5-ND	.66	12.69	41.13	DE2SRD

† Iv (mcd) @ 20mA

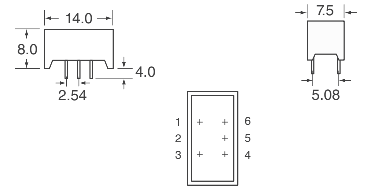

NEW! Surface Mount Displays

Emitted Color	Lens	Dominant Wave-length (nm)	Vf Typ. (V)	If Max. (mA)	Iv (ucd) @ 10mA	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Pricing 650	Kingbright Part No.
Super Green	White Diffused	568	2.2	140	10,000	754-1402-1-ND	2.08	15.60	31.20	754-1402-2-ND	486.72	ACSA02-41SGWA-F01
Hyper Red	White Diffused	630	1.95	185	30,400	754-1403-1-ND	2.28	17.06	34.13	754-1403-2-ND	532.35	ACSA02-41SURKWA-F01
Super Green	White Diffused	568	2.2	140	10,000	754-1404-1-ND	2.08	15.56	31.13	754-1404-2-ND	485.55	ACSC02-41SGWA-F01
Hyper Red	White Diffused	630	1.95	185	30,400	754-1405-1-ND	2.28	17.06	34.13	754-1405-2-ND	532.35	ACSC02-41SURKWA-F01

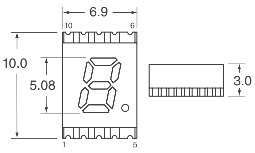

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! SEOUL SEOUL SEMICONDUCTOR

High Power LEDs

Fig. 1

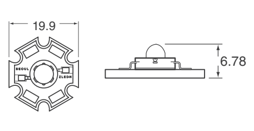

Fig. 2

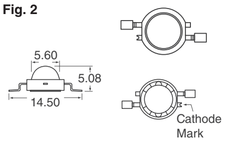

Fig. 3

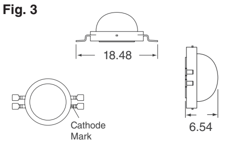

Fig. 4

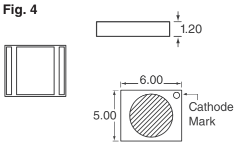

Fig. 5

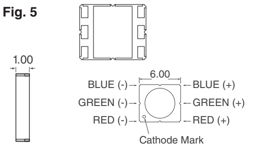

Fig. 6

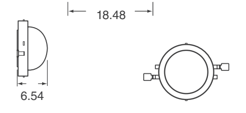

Fig. 7

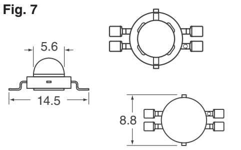

Fig. 8

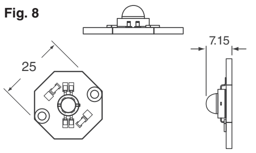

Fig. 9

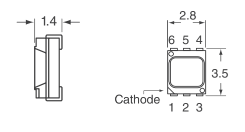

Fig. 10

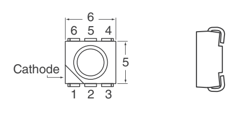

Fig. 11

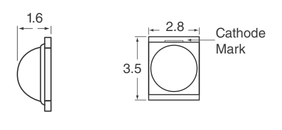

Fig. 12

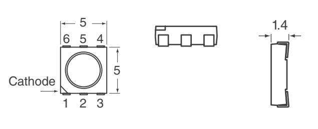

Fig. 13

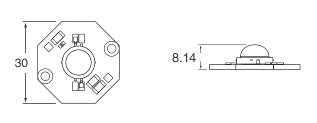

Fig. 14

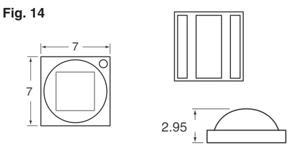

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	IF Max. (mA)	IV (lm)	Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Seoul Semiconductor Part No.
										1	10	100		Qty.	Pricing	
1	StarBoard	Cool White	Clear	6,300K	3.25	1,000	100	127°	897-1000-1-ND	9.75	8.45	5.69	897-1000-2-ND	200	1040.00	W42182-U2
	StarBoard	Cool White	Clear	6,300K	3.25	1,000	100	127°	897-1001-1-ND	8.91	7.73	5.20	897-1001-2-ND	200	950.40	W42182-U1
	StarBoard	Neutral White	Clear	4,000K	3.25	800	72	124°	897-1004-1-ND	9.75	8.45	5.69	897-1004-2-ND	200	1040.00	S42182-T1
	StarBoard	Neutral White	Clear	4,000K	3.25	800	72	124°	897-1005-1-ND	8.91	7.73	5.20	897-1005-2-ND	200	950.40	S42182-S2
	StarBoard	Warm White	Clear	3,000K	3.25	800	66	124°	897-1024-1-ND	9.75	8.45	5.69	897-1024-2-ND	200	1040.00	N42182-T1
	StarBoard	Warm White	Clear	3,000K	3.25	800	66	124°	897-1025-1-ND	8.94	7.75	5.22	897-1025-2-ND	200	953.60	N42182-S2
2	5.6mm Round	Cool White	Clear	6,300K	3.25	1,000	100	127°	897-1002-1-ND	8.25	7.15	4.82	897-1002-2-ND	500	1890.50	W42180-U2
	5.6mm Round	Cool White	Clear	6,300K	3.25	1,000	100	127°	897-1003-1-ND	8.18	6.82	4.96	897-1003-2-ND	500	1798.00	W42180-U1
	5.6mm Round	Neutral White	Clear	4,000K	3.25	800	72	124°	897-1006-1-ND	8.18	6.82	4.96	897-1006-2-ND	500	1798.00	S42180-T1
	5.6mm Round	Neutral White	Clear	4,000K	3.25	800	72	124°	897-1007-1-ND	7.39	6.16	4.48	897-1007-2-ND	500	1624.00	S42180-S2
	5.6mm Round	Warm White	Clear	3,000K	3.3	800	72	126°	897-1008-1-ND	8.25	7.15	4.82	897-1008-2-ND	500	1890.50	N42180-T1
	5.6mm Round	Warm White	Clear	3,000K	3.3	800	72	126°	897-1009-1-ND	8.18	6.82	4.96	897-1009-2-ND	500	1798.00	N42180-S2
	5.6mm Round	Cool White	Clear	6,300K	3.5	500	70	130°	897-1020-1-ND	4.79	3.99	2.90	897-1020-2-ND	500	1051.50	WS2180-S2
	5.6mm Round	Red	Clear	622	2.5	400	38	130°	897-1022-1-ND	4.62	3.85	2.80	897-1022-2-ND	500	1015.00	RS2180
	5.6mm Round	Red	Clear	625	2.3	800	48	130°	897-1023-1-ND	5.91	4.93	3.58	897-1023-2-ND	500	1298.00	R42180
	5.6mm Round	Green	Clear	525	3.5	500	62	130°	897-1026-1-ND	7.10	5.92	4.30	897-1026-2-ND	500	1559.00	GS2180
	5.6mm Round	Green	Clear	525	3.25	1,000	70	130°	897-1027-1-ND	9.00	7.80	5.25	897-1027-2-ND	500	2062.50	G42180
	5.6mm Round	Blue	Clear	460	3.5	500	15	130°	897-1028-1-ND	5.45	4.54	3.30	897-1028-2-ND	500	1196.50	BS2180
	5.6mm Round	Blue	Clear	465	3.25	1,000	22	130°	897-1029-1-ND	7.49	6.25	4.54	897-1029-2-ND	500	1646.00	B42180
3	Round w/Domed Top	Cool White	Clear	6,300K	3.6	2,800	700	130°	897-1021-1-ND	26.00	24.00	16.00	897-1021-2-ND	250	3437.50	W724C0-D
	Round w/Domed Top	Cool White	Clear	6,300K	3.6	2,800	700	130°	897-1013-1-ND	22.10	21.25	14.03	897-1013-2-ND	250	3028.25	W724C0-C
4	4.2mm Flat	Cool White	Diffused	6,300K	4.2	450	105	120°	897-1010-1-ND	4.75	3.96	2.88	897-1010-2-ND	500	1044.00	WZ10150-U2
	4.2mm Flat	Cool White	Diffused	6,300K	4.2	450	105	120°	897-1011-1-ND	4.42	3.69	2.68	897-1011-2-ND	500	971.50	WZ10150-U1
	4.2mm Flat	Warm White	Diffused	3,000K	4.2	450	80	120°	897-1015-1-ND	4.85	4.05	2.94	897-1015-2-ND	500	1066.00	NZ10150-T1
5	4.2mm Round	Red/Green/Blue	Clear	625/525/460	2.6/3.8/3.6	400	105	120°	897-1016-1-ND	14.30	13.75	9.08	897-1016-2-ND	500	3712.50	F50360
6	Round w/Domed Top	Cool White	Clear	6,300K	88 ~ 92 VAC	40	215	130°	897-1017-1-ND	16.30	15.68	10.35	897-1017-2-ND	250	2233.75	AW3200
7	5.6mm Round	Cool White	Clear	6,300K	85.6 ~ 92 VAC	20	80	110°	897-1019-1-ND	11.94	10.35	6.97	897-1019-2-ND	250	1492.50	AW2200
8	StarBoard	Cool White	Clear	6,300K	110VAC	20	80	110°	897-1018-1-ND	14.94	12.95	—	897-1018-2-ND	100	796.80	AW2214
9	Rectangle 2.4mm x 2.1mm	Red/Green/Blue	Diffused, White	632/518/453	2.1/3.2/3.2	30	1.7/2.8/0.93	120°	897-1038-1-ND	2.58	2.32	1.50	897-1038-2-ND	2,000	884.00/M	SFT825Z-S
	Rectangle 2.4mm x 2.1mm	Red/Green/Blue	Diffused, White	632/518/453	2.1/3.2/3.2	30	1.7/2.8/0.93	120°	897-1039-1-ND	2.47	2.21	1.43	897-1039-2-ND	2,000	845.00/M	SFT825N-S
10	4mm Round	Red/Green/Blue	Clear	632/518/453	2.1/3.2/3.2	30	1.7/2.8/0.93	120°	897-1040-1-ND	2.62	2.35	1.52	897-1040-2-ND	700	772.80	SFT722N-S
11	Round w/Domed Top	White	Clear	5,400K	3.2	50	6.6	120°	897-1041-1-ND	1.31	1.05	.73	897-1041-2-ND	2,000	386.00/M	LCW100Z1
12	4mm Round	White	Diffused	4,800K	3.3	90	14.5	120°	897-1042-1-ND	1.98	1.59	1.10	897-1042-2-ND	1,000	616.00	C9WT728S
	4mm Round	White	Diffused	4,800K	3.3	90	16.5	120°	897-1043-1-ND	1.98	1.59	1.10	897-1043-2-ND	1,000	616.00	C8WT728X
13	Round w/Domed Top	Cool White	Clear	6,300K	110VAC	40	215	130°	897-1044-1-ND	18.90	18.18	—	897-1044-2-ND	100	1090.50	AW3211
14	Round w/Domed Top	Warm White	Diffused	3,000K	63VAC	20	50	134°	897-1045-1-ND	5.84	4.87	3.54	897-1045-2-ND	1,000	2354.00	AN4240

High Power LED Modules

Fig. 1

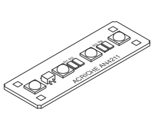

Fig. 2

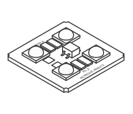

Fig. 3

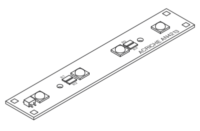

Fig. 4

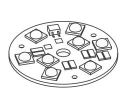

Fig. 5

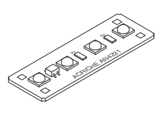

Fig. 6

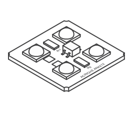

Fig. 7

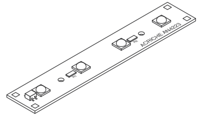

Fig. 8

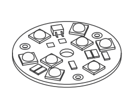

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	IF Max. (mA)	IV (lm)	Digi-Key Part No.	Price Each			Seoul Semiconductor Part No.
								1	10	100	
1	Warm White	Clear	3000K	110	40	200	897-1030-ND	20.16	19.31	12.87	AN4211
2	Warm White	Clear	3000K	110	40	200	897-1031-ND	19.69	18.86	12.57	AN4212
3	Warm White	Clear	3000K	110	40	200	897-1032-ND	20.84	19.96	13.31	AN4213
4	Warm White	Clear	3000K	110	80	400	897-1033-ND	34.62	30.59	23.35	AN4214
5	Warm White	Clear	3000K	220	20	200	897-1034-ND	20.16	19.31	12.87	AN4221
6	Warm White	Clear	3000K	220	20	200	897-1035-ND	19.69	18.86	12.57	AN4222
7	Warm White	Clear	3000K	220	20	200	897-1036-ND	20.84	19.96	13.31	AN4223
8	Warm White	Clear	3000K	220	40	400	897-1037-ND	34.62	30.59	23.35	AN4224

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs

Fig. 1

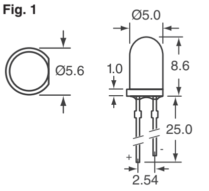

Fig. 2

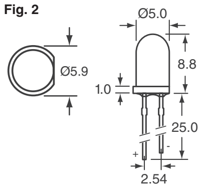

Fig. 3

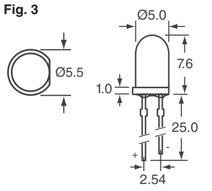

Fig. 4

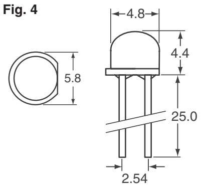

Fig. 5

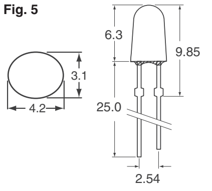

Fig. 6

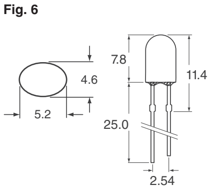

Fig. 7

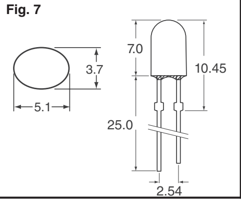

Fig. 8

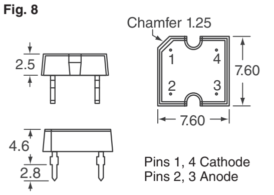

Fig. 9

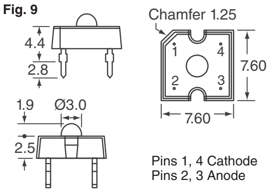

Fig. 10

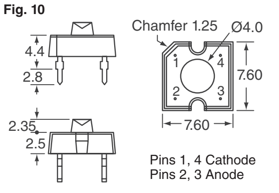

Fig. 11

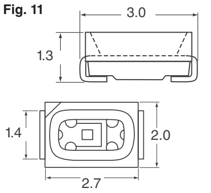

Fig. 12

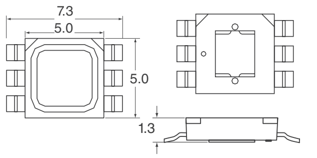

Fig. 13

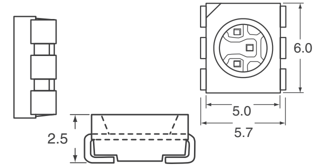

Fig. 14

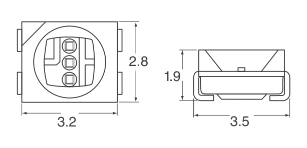

Fig. 15 ***NEW!***

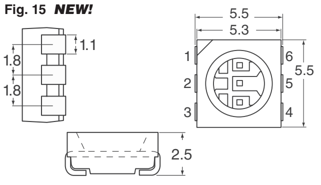

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	VF Typical (V)	IF Max. (mA)	IV @20mA (mcd)	View-ing Angle	Digi-Key Part No.	Pricing 1	Pricing 50	Pricing 100	Tape and Reel▲ Qty.	Tape and Reel▲ Pricing	Cree Part No.
1	5mm Round	Amber	Water Clear	591	2.1	50	5,000	23°	C503B-ABN-CW0Z0251-ND	.27	11.70	21.15	—	—	C503B-ABN-CW0Z0251
	5mm Round	Red	Water Clear	624	2.1	50	5,000	23°	C503B-RBN-CW0Z0AA1-ND	.27	11.70	21.15	—	—	C503B-RBN-CW0Z0AA1
	5mm Round	Amber	Water Clear	591	2.1	50	5,000	23°	C503B-ABN-CX0Y0341-ND	.30	13.00	23.50	—	—	C503B-ABN-CX0Y0341
	5mm Round	Red	Water Clear	624	2.1	50	5,000	23°	C503B-RBN-CW0X0AA1-ND	.29	12.35	22.33	—	—	C503B-RBN-CW0X0AA1
	5mm Round	Red	Water Clear	624	2.1	50	5,000	23°	C503B-RBN-CX0Y0AA1-ND	.30	13.00	23.50	—	—	C503B-RBN-CX0Y0AA1
2	5mm Round	White	Water Clear	—	3.2	25	18,000	15°	C503B-WAN-CABBB231-ND	.49	21.06	38.07	—	—	C503B-WAN-CABBB231
	5mm Round	White	Water Clear	—	3.2	25	18,000	15°	C503B-WAN-CBABB231-ND	.54	23.40	42.30	—	—	C503B-WAN-CBABB231
	5mm Round	White	Water Clear	—	3.2	25	18,000	15°	C503B-WAN-CCACB151-ND	.58	24.96	45.12	—	—	C503B-WAN-CCACB151
	5mm Round	White	Water Clear	—	3.2	25	18,000	15°	C503B-WAN-CCACB231-ND	.67	28.86	52.17	—	—	C503B-WAN-CCACB231
	5mm Round	Blue	Water Clear	470	3.2	25	11,000	15°	C503B-BAS-CY0C0461-ND‡	.54	23.40	42.30	—	—	C503B-BAS-CY0C0461
	5mm Round	Blue	Water Clear	470	3.2	25	11,000	15°	C503B-BAN-CY0C0461-ND	.54	23.40	42.30	—	—	C503B-BAN-CY0C0461
	5mm Round	Blue	Water Clear	470	3.2	25	4,100	30°	C503B-BCS-CV0Z0461-ND‡	.54	23.40	42.30	—	—	C503B-BCS-CV0Z0461
	5mm Round	Blue	Water Clear	470	3.2	25	4,100	30°	C503B-BCN-CV0Z0461-ND	.54	23.40	42.30	—	—	C503B-BCN-CV0Z0461
	5mm Round	Green	Water Clear	527	3.2	25	34,000	15°	C503B-GAS-CB0F0791-ND‡	.54	23.40	42.30	—	—	C503B-GAS-CB0F0791
	5mm Round	Green	Water Clear	527	3.2	25	34,000	15°	C503B-GAN-CB0F0791-ND	.59	25.74	46.53	—	—	C503B-GAN-CB0F0791
	5mm Round	Green	Water Clear	527	3.2	25	12,500	30°	C503B-GCS-CY0C0791-ND‡	.59	25.74	46.53	—	—	C503B-GCS-CY0C0791
	5mm Round	Green	Water Clear	527	3.2	25	12,500	30°	C503B-GCN-CY0C0791-ND	.59	25.74	46.53	—	—	C503B-GCN-CY0C0791
	5mm Round	White	Water Clear	—	3.2	25	24,000	15°	C503C-WAS-CBADA151-ND‡	.54	23.40	42.30	—	—	C503C-WAS-CBADA151
	5mm Round	White	Water Clear	—	3.2	25	24,000	15°	C503C-WAN-CBADA151-ND	.54	23.40	42.30	—	—	C503C-WAN-CBADA151
	5mm Round	Red	Water Clear	624	2.1	50	12,000	15°	C503B-RAS-CY0B0AA1-ND‡	.27	11.70	21.15	—	—	C503B-RAS-CY0B0AA1
	5mm Round	Red	Water Clear	624	2.1	50	12,000	15°	C503B-RAN-CY0B0AA1-ND	.27	11.70	21.15	—	—	C503B-RAN-CY0B0AA1
	5mm Round	Red	Water Clear	624	2.1	50	5,100	30°	C503B-RCS-CW0Z0AA1-ND‡	.27	11.70	21.15	—	—	C503B-RCS-CW0Z0AA1
	5mm Round	Red	Water Clear	624	2.1	50	5,100	30°	C503B-RCN-CW0Z0AA1-ND	.27	11.70	21.15	—	—	C503B-RCN-CW0Z0AA1
	5mm Round	Amber	Water Clear	591	2.1	50	16,000	15°	C503B-AAS-CY0B0251-ND‡	.27	11.70	21.15	—	—	C503B-AAS-CY0B0251
	5mm Round	Amber	Water Clear	591	2.1	50	16,000	15°	C503B-AAN-CY0B0251-ND	.27	11.70	21.15	—	—	C503B-AAN-CY0B0251
	5mm Round	Amber	Water Clear	591	2.1	50	4,800	30°	C503B-ACS-CW0Y0251-ND‡	.27	11.70	21.15	—	—	C503B-ACS-CW0Y0251
	5mm Round	Amber	Water Clear	591	2.1	50	4,800	30°	C503B-ACN-CW0Y0251-ND	.27	11.70	21.15	—	—	C503B-ACN-CW0Y0251
3	5mm Round	White	Water Clear	—	3.2	25	4,000	55°	C513A-WSN-CV0Y0151-ND	.54	23.40	42.30	—	—	C513A-WSN-CV0Y0151
4	5mm Round	White	Water Clear	—	3.2	25	1,400	110°	C535A-WJN-CS0V0151-ND	.43	18.72	33.84	—	—	C535A-WJN-CS0V0151
	5mm Round	White	Water Clear	—	3.2	25	1,400	110°	C535A-WJN-CS0V0231-ND	.49	21.06	38.07	—	—	C535A-WJN-CS0V0231
	5mm Round	White	Water Clear	—	3.2	25	1,400	110°	C535A-WJN-CU0V0231-ND	.58	24.96	45.12	—	—	C535A-WJN-CU0V0231
5	4mm Oval	Blue	Tinted	470	3.4	35	1,000	55x25	C4SMF-BJS-CR0U0452CT-ND†∆	.50	23.04	44.16	3,000	268.80/M	C4SMF-BJS-CR0U0452
	4mm Oval	Green	Tinted	527	3.4	35	4,000	55x25	C4SMF-GJS-CV0Y0792CT-ND†∆	.50	23.04	44.16	3,000	268.80/M	C4SMF-GJS-CV0Y0792
	4mm Oval	Red	Tinted	621	2.1	50	1,900	55x25	C4SMF-RJS-CT0W0BB2CT-ND†∆	.31	14.40	27.60	3,000	168.00/M	C4SMF-RJS-CT0W0BB2
6	5mm Oval	Amber	Tinted	591	2.1	50	2,500	70x35	C566C-AFS-CU0W0252CT-ND†∆	.31	14.40	27.60	2,500	168.00/M	C566C-AFS-CU0W0252
	5mm Oval	Blue	Tinted	470	3.4	35	1,500	70x35	C566C-BFS-CS0W0451-ND	.58	24.96	45.12	—	—	C566C-BFS-CS0W0451
	5mm Oval	Green	Tinted	527	3.4	35	5,200	70x35	C566C-GFS-CV0Z0792CT-ND†∆	.50	23.04	44.16	2,500	268.80/M	C566C-GFS-CV0Z0792
	5mm Oval	Red	Tinted	621	2.1	50	2,200	70x35	C566C-RFS-CT0W0BB2CT-ND†∆	.31	14.40	27.60	2,500	168.00/M	C566C-RFS-CT0W0BB2
7	5mm Oval	Blue	Tinted	470	3.4	35	1,100	50x20	C5SMF-BJS-CR14Q4T2CT-ND†	.46	18.81	31.68	—	—	C5SMF-BJS-CR14Q4T2
	5mm Oval	Blue	Tinted	470	3.4	35	1,100	40x100	C5SMF-BJS-CR24Q4T2CT-ND†∆ ***NEW!***	.53	24.24	46.46	2,500	282.80/M	C5SMF-BJS-CR24Q4T2
	5mm Oval	Green	Tinted	527	3.4	35	4,400	50x20	C5SMF-GJS-CV0Y0792CT-ND†∆	.50	23.04	44.16	2,500	268.80/M	C5SMF-GJS-CV0Y0792
	5mm Oval	Red	Tinted	621	2.1	50	2,200	50x20	C5SMF-RJS-CT0W0BB2CT-ND†∆	.31	14.40	27.60	2,500	168.00/M	C5SMF-RJS-CT0W0BB2
8	7.6 x 7.6mm	White	Water Clear	—	3.6	30	400§	130°	LP368PWN1-D0G-ND‡	.65	28.08	50.76	—	—	LP368PWN1-D0G
9	7.6 x 7.6mm	Blue	Water Clear	470	3.6	30	2,475	70°	CP41B-BFS-CG0H0454-ND	.67	28.86	52.17	—	—	CP41B-BFS-CG0H0454
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	6,565	70°	CP41B-GFS-CL0N0674-ND	.68	29.38	53.11	—	—	CP41B-GFS-CL0N0674
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	6,565	70°	CP41B-GFS-CL0N0694-ND	.65	28.08	50.76	—	—	CP41B-GFS-CL0N0694
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	6,565	70°	CP41B-GFS-CL0N0784-ND	.68	29.38	53.11	—	—	CP41B-GFS-CL0N0784
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	6,565	70°	CP41B-GFS-CM0N0674-ND	.74	31.98	57.81	—	—	CP41B-GFS-CM0N0674
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	6,565	70°	CP41B-GFS-CM0N0784-ND	.74	31.98	57.81	—	—	CP41B-GFS-CM0N0784
	7.6 x 7.6mm	White	Water Clear	—	3.6	30	5,200§	60°	CP41B-WES-CK0P0154-ND‡	.61	26.52	47.94	—	—	CP41B-WES-CK0P0154
	7.6 x 7.6mm	White	Water Clear	—	3.6	30	3,000§	90°	CP41B-WGS-CK0P0154-ND‡	.61	26.52	47.94	—	—	CP41B-WGS-CK0P0154
10	7.6 x 7.6mm	Blue	Water Clear	470	3.6	30	800★	120°	LP379PBL1-C0G-03-ND‡	.47	20.28	36.66	—	—	LP379PBL1-C0G-03
	7.6 x 7.6mm	Green	Water Clear	527	3.6	30	2,000★	120°	CP42S-GKS-ND‡	.54	23.40	42.30	—	—	CP42S-GKS
	7.6 x 7.6mm	Red	Water Clear	624	2.5	70	6,000◊	120°	CP42B-RKS-CL0P0AA4-ND‡	.36	15.60	28.20	—	—	CP42B-RKS-CL0P0AA4
	7.6 x 7.6mm	Amber	Water Clear	591	2.5	70	7,000◊	120°	CP42B-AKS-CM0Q0264-ND‡	.34	14.82	26.79	—	—	CP42B-AKS-CM0Q0264
11	2.7 x 2.0mm	Warm White	Yellow Diffused	3200K	3.2	25	1,120	120°	CLM3C-MKW-CWAXB233CT-ND†	.48	22.32	42.78	2,500	260.40/M	CLM3C-MKW-CWAXB233
	2.7 x 2.0mm	Cool White	Yellow Diffused	5500K	3.2	25	1,400	120°	CLM3C-WKW-CWBYA453CT-ND†	.48	22.32	42.78	2,500	260.40/M	CLM3C-WKW-CWBYA453
12	5 x 5mm	Warm White	Yellow Diffused	3200K	3.8	350	65lm@300mA	115°	CLN6A-MKW-CJ0K0233CT-ND†	3.09	142.56	273.24	1,100	2019.60/M	CLN6A-MKW-CJ0K0233
	5 x 5mm	Cool White	Yellow Diffused	5500K	3.8	350	80lm@300mA	115°	CLN6A-WKW-CK0L0343CT-ND†	3.09	142.56	273.24	1,100	2019.60/M	CLN6A-WKW-CK0L0343
13	6.0 x 5.0mm	Cool White	Yellow Diffused	6800K	3.8	3 x 50	11,000	120°	CLP6B-WKW-CD0E0453CT-ND†	1.34	61.92	118.68	900	1021.68	CLP6B-WKW-CD0E0453
	6.0 x 5.0mm	Red/Green/Blue	White Diffused	630/527/470	2.0/3.2/3.2	50/50/50	700/1,600/400	120°	CLP6C-FKB-CM1Q1H1BB7R3R3CT-ND†	1.37	63.36	121.44	900	1045.44	CLP6C-FKB-CM1Q1H1BB7R3R3
14	3.2 x 2.8mm	Red/Green/Blue	White Diffused	630/527/470	2.0/3.2/3.2	50/25/25	550/850/320	120°	CLV1A-FKB-CJ1M1F1BB7R4S3CT-ND†	.94	43.20	82.80	2,000	612.00/M	CLV1A-FKB-CJ1M1F1BB7R4S3
15	5.5 x 5.5mm	Red/Green/Blue	White Diffused	621.5/530/470	2.0/3.2/3.2	50/35/35	700/1,600/400	120°	CLV6A-FKB-CK1P1G1BB7R3R3CT-ND† ***NEW!***	.94	43.20	82.80	900	550.80	CLV6A-FKB-CK1P1G1BB7R3R3

‡ With Stopper § IV@30mA ★ ϕV@30mA ◊ ϕV@70mA † Cut Tape ▲ For Tape and Reel part number, change CT-ND to TR-ND ∆ For Tape and Box part number, change CT-ND to TB-ND

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

XLamp® LEDs

Fig. 1

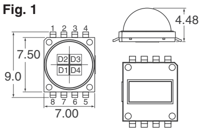

Fig. 2 ***NEW!***

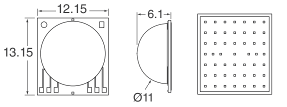

Fig. 3 ***NEW!***

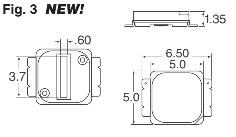

Fig. 4

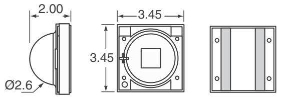

Fig. 5

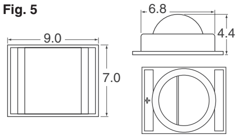

Fig.	Emitted Color	Peak Wavelength (nm)	Forward Voltage VF			IF Max. (mA)	Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel§		Cree Part No.
			@350mA	@500mA	@700mA				1	50	100	Qty.	Pricing	
MC-E Series														
1	Cool White	10,000K	3.2	—	3.4	4 x 700	110°	MCE4WT-A2-0000-000K01CT-ND	14.87	13.73	13.16	200	2402.40	MCE4WT-A2-0000-000K01
	White	4,000K	3.2	—	3.4	4 x 700	110°	MCE4WT-A2-0000-000JE5CT-ND	14.30	13.20	12.65	—	—	MCE4WT-A2-0000-000JE5
	Warm White	3,000K	3.2	—	3.4	4 x 700	110°	MCE4WT-A2-0000-000HE7CT-ND	14.30	13.20	12.65	200	2310.00	MCE4WT-A2-0000-000HE7
	Cool White	10,000K	3.2	—	3.4	4 x 700	110°	MCE4WT-A2-0000-000M01CT-ND	16.59	15.32	—	200	2679.60	MCE4WT-A2-0000-000M01
	Red/Green/ Blue/White	625/527.5/ 457.5	2.2/3.4/3.2	—	—	4 x 700	115°	MCE4CT-A2-0000-00A4AAAB1CT-ND ***NEW!***	20.02	18.48	17.71	200	3234.00	MCE4CT-A2-0000-00A4AAAB1
	Red/Green/ Blue/White	625/527.5/ 457.5	2.2/3.4/3.2	—	—	4 x 700	115°	MCE4CT-A2-0000-00A5AAAA1CT-ND ***NEW!***	20.02	18.48	17.71	200	3234.00	MCE4CT-A2-0000-00A5AAAA1
NEW! MPL-EZW EasyWhite™ Series NEW!														
2	Warm White	2,700K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B027FCT-ND	32.02	26.45	—	100	2227.20	MPLEZW-A1-R100-0000B027F
	Warm White	3,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B030FCT-ND	32.02	26.45	—	100	2227.20	MPLEZW-A1-R100-0000B030F
	Warm White	3,500K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B035FCT-ND	32.02	26.45	—	100	2227.20	MPLEZW-A1-R100-0000B035F
	Warm White	3,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C030FCT-ND	35.81	29.59	—	100	2491.20	MPLEZW-A1-R100-0000C030F
	Warm White	3,500K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C035FCT-ND	35.81	29.59	—	100	2491.20	MPLEZW-A1-R100-0000C035F
	Warm White	4,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C040FCT-ND	32.02	26.45	—	100	2227.20	MPLEZW-A1-R100-0000C040F
	Warm White	4,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000D040FCT-ND	35.81	29.59	—	100	2491.20	MPLEZW-A1-R100-0000D040F
	Warm White	2,700K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B027HCT-ND	32.58	26.92	—	100	2180.00	MPLEZW-A1-R100-0000B027H
	Warm White	3,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B030HCT-ND	32.58	26.92	—	100	2180.00	MPLEZW-A1-R100-0000B030H
	Warm White	3,500K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000B035HCT-ND	32.58	26.92	—	100	2180.00	MPLEZW-A1-R100-0000B035H
	Warm White	3,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C030HCT-ND	36.42	30.09	—	100	2436.01	MPLEZW-A1-R100-0000C030H
	Warm White	3,500K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C035HCT-ND	36.42	30.09	—	100	2436.01	MPLEZW-A1-R100-0000C035H
	Warm White	4,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000C040HCT-ND	32.58	26.92	—	100	2180.00	MPLEZW-A1-R100-0000C040H
	Warm White	4,000K	25.0†	26.5Δ	—	3 x 250	125°	MPLEZW-A1-R100-0000D040HCT-ND	36.42	30.09	—	100	2436.01	MPLEZW-A1-R100-0000D040H
NEW! MX-6 Series NEW!														
3	Warm White	3,000K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-0009E7CT-ND	4.03	3.72	3.57	250	813.75	MX6AWT-A1-R250-0009E7
	Warm White	2,700K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-0009E8CT-ND	4.55	4.20	4.03	250	918.75	MX6AWT-A1-R250-0009E8
	Cool White	5,000K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-000BE3CT-ND	3.69	3.41	3.27	250	745.50	MX6AWT-A1-R250-000BE3
	Cool White	6,500K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-000C51CT-ND	3.54	3.27	3.13	250	714.00	MX6AWT-A1-R250-000C51
	Cool White	5,000K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-000CE3CT-ND	4.03	3.72	3.57	250	813.75	MX6AWT-A1-R250-000CE3
	Cool White	6,500K	3.3‡	—	—	1000	120°	MX6AWT-A1-R250-000D51CT-ND	4.03	3.72	3.57	250	813.75	MX6AWT-A1-R250-000D51
XP-C Series														
4	Warm White	3,700K	3.4	3.5	—	500	110°	XPCWHT-L1-R250-006E7CT-ND	2.68	2.48	2.37	250	540.75	XPCWHT-L1-R250-006E7
	Cool White	10,000K	3.4	3.5	—	500	110°	XPCWHT-L1-R250-00A01CT-ND	2.68	2.48	2.37	250	540.75	XPCWHT-L1-R250-00A01
	Amber	590	2.2	—	—	350	125°	XPCAMB-L1-R250-00401CT-ND ***NEW!***	3.64	3.36	3.22	250	735.00	XPCAMB-L1-R250-00401
	Blue	475	3.4	3.5	—	500	125°	XPCBLU-L1-R250-00V01CT-ND ***NEW!***	3.95	3.65	3.50	250	798.00	XPCBLU-L1-R250-00V01
	Royal Blue	457.5	3.4	3.5	—	500	125°	XPCROY-L1-R250-00801CT-ND ***NEW!***	3.95	3.65	3.50	250	798.00	XPCROY-L1-R250-00801
	Green	527.5	3.5	3.6	—	500	125°	XPCGRN-L1-R250-00801CT-ND ***NEW!***	4.39	4.06	3.89	250	887.25	XPCGRN-L1-R250-00801
	Red-Orange	615	2.2	—	—	350	125°	XPCRDO-L1-R250-00401CT-ND ***NEW!***	2.86	2.64	2.53	250	632.50	XPCRDO-L1-R250-00401
	Red	625	2.2	—	—	350	125°	XPCRED-L1-R250-00201CT-ND ***NEW!***	2.86	2.64	2.53	250	632.50	XPCRED-L1-R250-00201
XP-E Series														
4	Warm White	3,700K	3.2	—	3.4	700	115°	XPEWHT-L1-R250-008E7CT-ND	5.22	4.32	3.64	250	1058.00	XPEWHT-L1-R250-008E7
	Neutral White	4,000K	3.2	—	3.4	700	115°	XPEWHT-L1-R250-00AE5CT-ND	4.39	4.06	3.89	250	887.25	XPEWHT-L1-R250-00AE5
	Cool White	10,000K	3.2	—	3.4	700	115°	XPEWHT-L1-R250-00C01CT-ND	3.95	3.65	3.50	—	—	XPEWHT-L1-R250-00C01
	Cool White	10,000K	3.2	—	3.4	700	115°	XPEWHT-L1-R250-00D01CT-ND	4.08	3.77	3.62	250	824.25	XPEWHT-L1-R250-00D01
	Cool White	10,000K	3.2	—	3.4	700	115°	XPEWHT-L1-R250-00E01CT-ND	4.58	4.23	4.05	250	924.00	XPEWHT-L1-R250-00E01
	Amber	590	2.1	2.3	—	500	115°	XPEAMB-L1-R250-00401CT-ND ***NEW!***	3.95	3.65	3.50	250	798.00	XPEAMB-L1-R250-00401
	Blue	475	3.2	—	—	1,000	115°	XPEBLU-L1-R250-00Y01CT-ND ***NEW!***	5.36	4.95	4.74	250	1081.50	XPEBLU-L1-R250-00Y01
	Green	527.5	3.4	—	—	1,000	115°	XPEGRN-L1-R250-00C01CT-ND ***NEW!***	6.29	5.81	5.57	250	1270.50	XPEGRN-L1-R250-00C01
	Red-Orange	615	2.1	—	2.3	700	115°	XPERDO-L1-R250-00501CT-ND ***NEW!***	3.64	3.36	3.22	250	735.00	XPERDO-L1-R250-00501
	Red	625	2.1	—	2.3	700	115°	XPERED-L1-R250-00401CT-ND ***NEW!***	4.26	3.94	3.78	250	861.00	XPERED-L1-R250-00401
NEW! XP-G Series NEW!														
4	Neutral White	4,000K	3.0	—	3.2	1,500	125°	XPGWHT-01-0000-00EE5CT-ND	6.47	5.98	5.73	1,000	3228.58	XPGWHT-01-0000-00EE5
	Neutral White	5,000K	3.0	—	3.2	1,500	125°	XPGWHT-01-0000-00FE3CT-ND	6.94	6.41	6.15	1,000	3471.43	XPGWHT-01-0000-00FE3
	Warm White	2,700K	3.0	—	3.2	1,500	125°	XPGWHT-L1-0000-00BE8CT-ND	6.73	6.22	5.96	1,000	3357.13	XPGWHT-L1-0000-00BE8
	Warm White	3,000K	3.0	—	3.2	1,500	125°	XPGWHT-L1-0000-00CE7CT-ND	6.58	6.08	5.82	1,000	3285.71	XPGWHT-L1-0000-00CE7
	Cool White	6,650K	3.0	—	3.2	1,500	125°	XPGWHT-L1-0000-00E51CT-ND	5.72	5.28	5.06	1,000	2857.14	XPGWHT-L1-0000-00E51
	Cool White	6,650K	3.0	—	3.2	1,500	125°	XPGWHT-L1-0000-00F51CT-ND	6.29	5.81	5.57	1,000	3142.85	XPGWHT-L1-0000-00F51
	Cool White	6,650K	3.0	—	3.2	1,500	125°	XPGWHT-L1-0000-00G51CT-ND	7.31	6.75	6.47	1,000	3642.86	XPGWHT-L1-0000-00G51
XR-C Series														
5	Cool White	10,000K	3.5	3.6	—	500	90°	XRCWHT-L1-R250-00901CT-ND	5.36	4.95	4.74	250	1081.50	XRCWHT-L1-R250-00901
	White	4,000K	3.5	3.6	—	500	90°	XRCWHT-L1-R250-006E5CT-ND	5.20	4.80	4.60	250	1050.00	XRCWHT-L1-R250-006E5
	Warm White	3,000K	3.5	3.6	—	500	90°	XRCWHT-L1-R250-005E7CT-ND	5.20	4.80	4.60	250	1050.00	XRCWHT-L1-R250-005E7
	Red	630	2.2	—	2.4	700	90°	XRCRED-L1-R250-00M01CT-ND	4.52	4.18	4.01	250	913.50	XRCRED-L1-R250-00M01
	Green	535	3.7	—	—	500	100°	XRCGRN-L1-R250-00N01CT-ND	5.23	4.83	4.63	250	1055.25	XRCGRN-L1-R250-00N01
	Blue	475	3.5	3.6	—	500	100°	XRCBLU-L1-R250-00H01CT-ND	5.23	4.83	4.63	250	1055.25	XRCBLU-L1-R250-00H01
XR-E Series														
5	Cool White	10,000K	3.3	—	3.5	1,000	90°	XREWHT-L1-R250-00C01CT-ND	7.67	7.08	6.79	250	1548.75	XREWHT-L1-R250-00C01
	White	4,000K	3.3	—	3.5	700	90°	XREWHT-L1-R250-009E5CT-ND	7.23	6.68	6.40	250	1459.50	XREWHT-L1-R250-009E5
	Warm White	3,000K	3.3	—	3.5	700	90°	XREWHT-L1-R250-008E7CT-ND	7.44	6.87	6.58	250	1501.50	XREWHT-L1-R250-008E7
	Warm White	3,000K	3.3	—	3.5	700	90°	XREWHT-L1-0000-004E7CT-ND ***NEW!***	4.97	4.59	4.40	1,000	2485.71	XREWHT-L1-0000-004E7
	Warm White	3,700K	3.3	—	3.5	700	90°	XREWHT-L1-0000-006E5CT-ND ***NEW!***	5.62	5.19	4.97	1,000	2800.01	XREWHT-L1-0000-006E5
	Green	535	3.3	—	3.5	700	100°	XREGRN-L1-R250-00P01CT-ND	6.01	5.55	5.32	250	1212.75	XREGRN-L1-R250-00P01
	Blue	485	3.3	—	3.5	700	100°	XREBLU-L1-R250-00K01CT-ND	7.93	7.32	7.02	250	1601.25	XREBLU-L1-R250-00K01

§ For Tape and Reel part number, change CT-ND to TR-ND † VF@150mA Δ VF@250mA ‡ VF@300mA

Light Engines

Dimensions in Inches (mm)

Fig.	Color	Vf Typical (V)†	If Typical (A)	Power Typical (W)†	Lumens Typical (lm)†	Kelvin Units (K)	Digi-Key Part No.	Price Each 1	10	50	T & R Pricing‡ 250	Lighting Science Part No.
Atlas™ — RoHS Compliant												
1	Red/Green/Blue	4.6/6.9/6.9	0.35	1.6/2.4/2.4	69/109/29	—	521-1035-1-ND§	24.00	21.00	18.00	3750.00	NT-43F0-0424
	Red/Green/Blue	4.8/7.4/7.9	0.35	1.7/2.6/2.8	69/109/29	—	521-1078-ND ***NEW!***	24.00	22.80	21.00	—	NT-43F0-0424
2	Daylight White	7.0	0.70	4.9	244	4,700	521-1039-1-ND§	21.56	18.87	16.17	3370.00	NT-42D0-0426
	Red	4.6	0.70	3.2	109	—	521-1054-ND	22.40	17.59	16.02	—	NT-41A0-0482
	Amber	5.1	0.70	3.6	131	—	521-1055-ND	22.40	17.59	16.02	—	NT-41E0-0483
	Blue	6.9	0.70	4.8	63	—	521-1056-ND	26.60	20.89	19.02	—	NT-42B1-0484
	Green	6.9	0.70	4.8	216	—	521-1057-ND	26.60	20.89	19.02	—	NT-42C1-0485
	Daylight White	6.6	0.70	4.9	164	4,700	521-1058-ND	27.72	21.76	19.82	—	NT-45D0-0447
	Warm White	6.6	0.70	4.9	119	3,050	521-1059-ND	27.72	21.76	19.82	—	NT-45D1-0446
	Warm White	7.0	0.70	4.9	250	3,050	521-1073-ND	24.00	18.84	17.16	—	NT2-42D1-0529
3	Heatsink, 1” (25.4mm), for Atlas, BL-2000/4000						521-1015-ND	25.96	18.57	17.27	—	HS-4100-0345
Titan™ — RoHS Compliant												
4	Red/Green/Blue	6.9/11.4/10.5	1.05	7.3/12.0/11.0	304/527/134	—	521-1045-ND	80.20	74.36	68.12	—	NT-53F0-0428
	Warm White	19.8	1.05	20.8	771	3,050	521-1044-ND	77.12	71.50	65.50	—	NT-52D1-0430
	Daylight White	19.8	1.05	20.8	1146	4,700	521-1043-ND	77.12	71.50	65.50	—	NT-52D0-0429
	Red	13.3	1.05	14.0	570	—	521-1062-ND	84.83	78.65	71.50	—	NT-51A0-0468
	Amber	14.5	1.05	15.2	578	—	521-1063-ND	84.83	78.65	71.50	—	NT-51E0-0481
	Blue	19.7	1.05	20.7	244	—	521-1064-ND	92.54	85.80	78.00	—	NT-52B1-0469
	Green	21.1	1.05	22.2	942	—	521-1065-ND	100.26	92.95	84.50	—	NT-52C1-0470
5	Heatsink, 1” (25.4mm), for Titan, BL-3000						521-1016-ND	37.20	26.60	24.81	—	HS-5100-0346
	Heatsink, 2.36” (59.94mm), for Titan, BL-3000						521-1068-ND	32.02	25.14	22.90	—	HS-5200-0493
TitanTurbo™ — RoHS Compliant												
4	Daylight White	11.3	5.0	56.5	1853	4,700	521-1060-ND	131.10	121.55	110.50	—	NT-54D0-0487
5	Heatsink, 1.18” (30mm), for Titan/Titan Turbo						521-1075-ND	24.40	19.16	17.45	—	HS-5410-0537
	Heatsink, 2.95” (75mm), for Titan/Titan Turbo						521-1076-ND	24.40	19.16	17.45	—	HS-5430-0537
Accessories												
EZConnect Board with Connector for BL-4000 Series							521-1024-ND	8.84	7.74	5.53	—	EZ-4000-3357
EZConnect Assembly Cable for BL-4000 Series							521-1025-ND◆	4.50	3.94	2.82	—	EZ-46WH-0354
EZConnect Board for Atlas Series, R/G/B							521-1036-ND◆	33.00	25.91	21.62	—	EZ-43F0-0431
EZConnect Board for Atlas Series, Daylight White							521-1040-ND◆	30.56	23.99	20.02	—	EZ-42D0-0433
EZConnect Wire Harness for Titan Series							521-1046-ND◆	7.50	6.57	5.63	—	NT-50WH-0427
Lens, Optic Medium with holder for Atlas Series							521-1041-ND◆	5.62	4.42	3.69	—	OP-4FM1-0442
Lens, Optic Wide with holder for Atlas Series							521-1042-ND◆	5.62	4.42	3.69	—	OP-4FW1-0441
Lens, Optic Narrow with holder for Atlas Red/Green/Blue Series							521-1066-ND◆	10.00	7.85	7.15	—	OP-4LN1-0457
Lens, Optic Narrow with holder for Atlas White Series							521-1067-ND◆	10.00	7.85	7.15	—	OP-4LN2-0492
Lens, Optic Narrow 10 Degrees with holder for Titan White Series							521-1050-ND◆	26.00	20.41	18.59	—	OP-5LN1-0451
Lens, Optic Narrow 10 Degrees with holder for Titan Series							521-1069-ND◆	29.00	25.38	22.77	—	OP-5LN1-0499
Lens, Optic Narrow 25 Degrees with holder for Titan Series							521-1051-ND◆	20.00	15.70	14.30	—	OP-5LN2-0445
Lens, Optic Medium 30 Degrees with holder for Titan Series							521-1052-ND◆	20.00	15.70	14.30	—	OP-5LM3-0455
Lens, Optic Wide 45 Degrees with holder for Titan Series							521-1053-ND◆	20.00	15.70	14.30	—	OP-5LW4-0456

Fig.	Color	Input Voltage Typical (VAC)	Power (W)	Lumens (lm)	Kelvin Units (K)	Digi-Key Part No.	Price Each 1	10	50	Lighting Science Part No.
SoL™ — RoHS Compliant										
6	Daylight White	12	7.4	200	4,700	521-1070-ND	61.98	54.24	48.66	RL-16D0-0538
	TruColor	12	7.4	120	3,050	521-1071-ND	61.98	54.24	48.66	RL-16D1-0539

◆ *RoHS Compliant* † Optical and electrical specifications are given for the specified drive current at a 25° junction temperature § Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

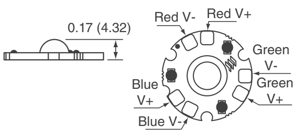

Fig. 2

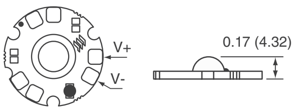

Fig. 3

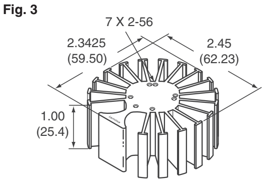

Fig. 4

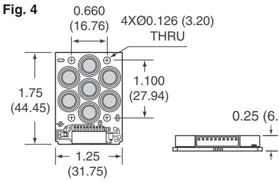

Fig. 5

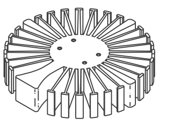

Fig. 6

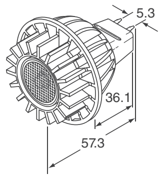

LED Power Modules and Accessories

Fig. 1

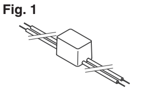

Fig. 2

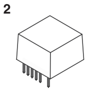

Fig. 3

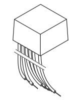

Fig. 4

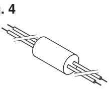

Fig.	Input Voltage (V)	Output Voltage (V)	Input Current (A)	Output Current (mA)	Digi Key Part No.	Price Each	LED Dynamics Part No.
MicroPuck							
1	3.0	8.0	—	350	788-1000-ND	9.49	2009
BoostPuck							
2	28	48	1.5	350	788-1002-ND	19.99	4015-D-E-350
	28	48	1.5	350	788-1003-ND	23.99	4015-D-I-350
BuckPlus							
2	7 ~ 32	32 Vdc	—	1000	788-1007-ND	15.99	7021-D-E-1000
	7 ~ 32	32 Vdc	—	350	788-1008-ND	15.99	7021-D-E-350
	7 ~ 32	32 Vdc	—	500	788-1009-ND	15.99	7021-D-E-500
	7 ~ 32	32 Vdc	—	700	788-1010-ND	15.99	7021-D-E-700
	7 ~ 32	32 Vdc	—	1000	788-1011-ND	18.99	7021-D-I-1000
	7 ~ 32	32 Vdc	—	350	788-1012-ND	18.99	7021-D-I-350
	7 ~ 32	32 Vdc	—	500	788-1013-ND	18.99	7021-D-I-500
	7 ~ 32	32 Vdc	—	700	788-1014-ND	18.99	7021-D-I-700

Fig.	Input Voltage (V)	Output Voltage (V)	Input Current (A)	Output Current (mA)	Digi Key Part No.	Price Each	LED Dynamics Part No.
3	7 ~ 32	32 Vdc	—	1000	788-1022-ND	16.99	7023-D-E-1000
	7 ~ 32	32 Vdc	—	350	788-1023-ND	16.99	7023-D-E-350
	7 ~ 32	32 Vdc	—	700	788-1025-ND	16.99	7023-D-E-700
	5 ~ 32	32 Vdc	—	1000	788-1030-ND	15.99	7023-D-N-1000
BuckToot™							
4	5 ~ 28 Vdc	—	—	350	788-1034-ND	9.99	7027-D-350
QuadPuck							
—	8 ~ 32 Vdc	—	4.5	140 ~ 1100	788-1006-ND	14.99	4016-XLR
Accessories							
—	Harness for "E" and "I" type (6-wire)				788-1019-ND	2.49	7021HE
	Harness for "E" and "I" type (6-wire w/pot)				788-1020-ND	4.15	7021HEP

ENFIS

LED Arrays and Engines

Dimensions in mm

Fig. 1

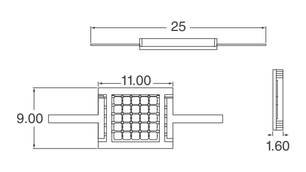

Fig. 2

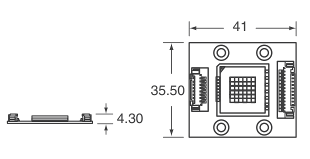

Fig. 3

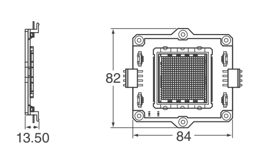

Fig. 4

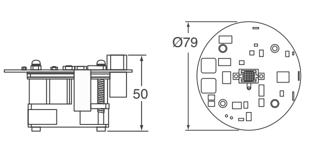

Fig. 5

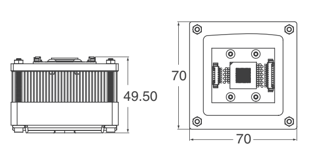

Fig. 6

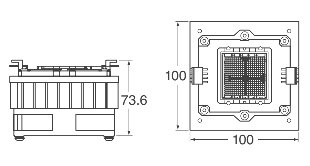

Fig.	Emitted Color	Peak Wavelength (nm)	Typical Vf (V)	Maximum If (A)	Typical Lumens (lm)	Digi-Key Part No.	Price Each		
							1	10	50
Uno Tag Arrays — RoHS Compliant									
1	Violet	405	19.0	2.00	—	722-1031-ND	224.75	213.13	206.15
	Blue	470	16.0	2.40	350	722-1026-ND	159.50	151.25	146.30
Uno-Plus Arrays — RoHS Compliant									
2	Ultra Violet	375	33.0	0.75	—	722-1068-ND	275.50	261.25	252.70
	Red	620	20.2	2.475	800	722-1065-ND	220.40	209.00	202.16
	Infra-Red	870	17	2.95	—	722-1067-ND	275.50	261.25	252.70
	White	—	28.8	1.75	1300	722-1066-ND	237.80	225.50	218.12
Quattro Arrays — RoHS Compliant									
3	Blue	465	33.4	12.0	3700	722-1006-ND	1479.00	1450.00	—

Fig.	Emitted Color	Peak Wavelength (nm)	Typical Input Voltage (V)	Output Power (W)	Typical Lumens (lm)	Digi-Key Part No.	Price Each		
							1	10	50
Uno Air Light Engine									
4	Violet	405	12	38	—	722-1024-ND	400.95	386.10	378.68
	White	—	12	38	850	722-1021-ND◆	271.15	257.13	248.71
Uno-Plus Light Engine — RoHS Compliant									
5	Ultra Violet	375	48	25	—	722-1077-ND	391.50	377.00	369.75
Uno-Plus Air Light Engine — RoHS Compliant									
5	Violet	405	48	50	—	722-1086-ND	460.35	443.30	434.78
	Red	630	48	50	600	722-1083-ND	320.45	303.88	293.93
	RGBA	—	48	50	700	722-1033-ND	579.15	557.70	546.98
Quattro Air Light Engine									
6	Violet	405	48	200	—	722-1014-ND	2467.13	2418.75	—

◆ ***RoHS Compliant***

NEW! BRIDGELUX The Magic of Light™

LED Arrays

RoHS COMPLIANT

Dimensions in mm

Fig. 1

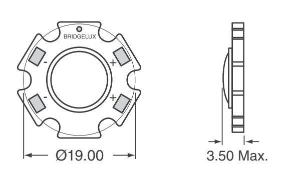

Fig. 2

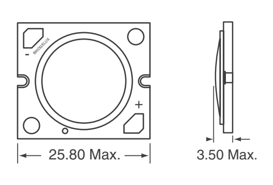

Fig. 3

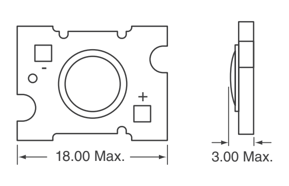

Fig. 4

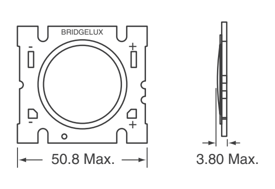

Fig.	Color	Wavelength (°K)	Typical Vf (V)	Typical Luminous Flux (lm)	Digi-Key Part No.	Price Each		Bridgelux Part No.
						1	100	
ES Series								
1	Cool White	5600	9.5	450	976-1000-ND	6.75	6.39	BXRA-C0402-00000
	Warm White	3000	9.5	440	976-1001-ND	8.50	8.04	BXRA-W0401-00000
	Warm White	3000	9.0	460	976-1002-ND	9.95	9.41	BXRA-W0402-00000
	Neutral White	4100	8.9	440	976-1013-ND	9.95	9.41	BXRA-N0402-00000
2	Cool White	5600	12.7	880	976-1003-ND	12.80	12.10	BXRA-C0802-00000
	Warm White	3000	12.2	930	976-1004-ND	17.95	16.97	BXRA-W0802-00000
	Cool White	5600	12.8	1320	976-1005-ND	17.30	16.35	BXRA-C1202-00000
	Warm White	3000	15.1	1320	976-1006-ND	26.25	24.82	BXRA-W1202-00000
	Cool White	5600	16.2	2200	976-1007-ND	27.00	25.52	BXRA-C2002-00000
	Neutral White	4100	12.2	1020	976-1014-ND	17.95	16.97	BXRA-N0802-00000
	Neutral White	4100	18.3	1530	976-1015-ND	26.25	24.82	BXRA-N1203-00000
	Warm White	3000	18.3	1370	976-1020-ND	26.25	24.82	BXRA-W1203-00000
LED Array Series								
1	Cool White	5600	9.8	440	976-1023-ND	6.10	5.77	BXRA-C0400-00000
	Warm White	3000	9.8	440	976-1024-ND	7.95	7.52	BXRA-W0400-00000
	Neutral White	4100	9.7	440	976-1025-ND	7.95	7.52	BXRA-N0400-00000
2	Cool White	5600	13.0	880	976-1026-ND	11.25	10.64	BXRA-C0800-00000
	Warm White	3000	13.2	880	976-1027-ND	15.90	15.03	BXRA-W0800-00000
	Neutral White	4100	13.0	880	976-1028-ND	15.90	15.03	BXRA-N0800-00000
	Cool White	5600	13.2	1320	976-1029-ND	14.70	13.90	BXRA-C1200-00000
	Warm White	3000	16.4	1320	976-1030-ND	22.35	21.13	BXRA-W1200-00000
	Neutral White	4100	16.2	1320	976-1031-ND	22.35	21.13	BXRA-N1200-00000
	Cool White	5600	16.6	2200	976-1032-ND	23.00	21.74	BXRA-C2000-00000
LS Series								
3	Cool White	5600	13.2	400	976-1008-ND	4.90	4.64	BXRA-C0360-00000
	Warm White	3000	13.2	265	976-1009-ND	5.20	4.92	BXRA-W0240-00000
	Warm White	3000	12.6	295	976-1010-ND	5.95	5.63	BXRA-W0260-00000
RS Series								
4	Cool White	5600	25.6	5000	976-1011-ND	67.65	63.94	BXRA-C4500-00000
	Warm White	3000	25.6	3400	976-1012-ND	74.50	70.41	BXRA-W3000-00000
	Neutral White	4100	25.6	3800	976-1016-ND	74.50	70.41	BXRA-N3500-00000

Chicago Miniature Lighting, LLC
Lighting the world since 1910

LED Incandescent Replacements

Chicago Miniature Incandescent replacements have extremely high brightness with low current draw. Long life typically 100K hours vs. 10K hours. Storage Temp: -25°C ~ 80°C Ambient Temp: -20°C ~ 60°C

Fig. 1

Replaces incandescent lamps:
- 12VDC 394, 330, 382
- 24VDC and 28VDC 327, 376, 385, 387

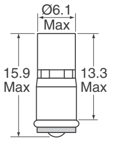

Fig. 2

Replaces incandescent lamps:
- 12VDC 336, 386, 393
- 24VDC and 28VDC 276, 334, 388

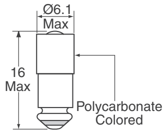

Fig. 3

Replaces incandescent lamps:
- 12VAC/DC 18, 37, 70, 73, 74
- 24VAC/DC and 28VAC/DC 17, 85

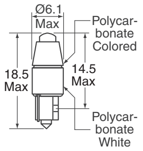

Fig. 4

Replaces incandescent lamps:
- 12V AC/DC 192, 124, 158, 161, 168, 193, 194, 658, 184
- 24V AC/DC and 28V AC/DC 152, 400, 464, 585, 655, 656, 657

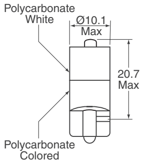

Fig. 5

Replaces incandescent lamps:
- 12V AC/DC 12MB, 181, 756, 1488, 1815, 1894, 1889, 1891, 1893, 1898
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

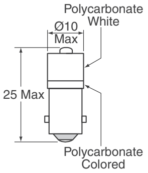

Fig. 6

Replaces incandescent lamps:
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

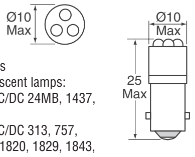

Fig. 7

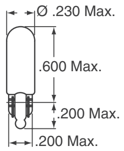

Fig. 8

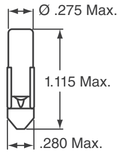

Fig. 9

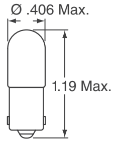

Fig.	Color	Voltage	Current (mA)	Lumi. Intensity mcd	Wavelength (nm)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
15101 Series T 1 3/4 Midget Flange Based LED										
1	Yellow	12DC	14	280	587	L1106-ND	9.92	8.04	5.82	1510125UY3
	White Clear	12DC	14	700	—	L1107-ND◆	13.22	10.72	7.76	1510125W3
	Red	24DC	14	330	630	L1111-ND◆	8.82	7.15	5.17	1510135UR3
	Green	24DC	14	910	525	L1110-ND◆	13.22	10.72	7.76	1510135UG3
	Green	28DC	14	910	525	L1116-ND◆	13.22	10.72	7.76	1510145UG3
	Yellow	28DC	14	280	587	L1118-ND◆	9.92	8.04	5.82	1510145UY3
	Blue	28DC	14	350	470	L1115-ND	13.22	10.72	7.76	1510145B3
	White Clear	28DC	14	700	—	L1119-ND◆	13.22	10.72	7.76	1510145W3
15121 Series T 1 3/4 Midget Groove Based LED										
2	Red	12DC	7/14	330	630	L1123-ND	8.18	6.63	4.80	1512125UR3
	Yellow	12DC	7/14	280	587	L1124-ND◆	9.28	7.52	5.44	1512125UY3
	Blue	12DC	7/14	350	470	L1121-ND	11.34	9.19	6.65	1512125B3
	Red	24DC	7/14	330	630	L1027-ND	8.18	6.63	4.80	1512135UR3
	White Diff.	24DC	7/14	350	—	L1030-ND	11.34	9.19	6.65	1512135W3D
	Blue	28DC	7/14	350	470	L1031-ND	11.34	9.19	6.65	1512145B3
	White Clear	28DC	7/14	700	—	L1035-ND◆	11.34	9.19	6.65	1512145W3
	White Diff.	28DC	7/14	350	—	L1036-ND	11.34	9.19	6.65	1512145W3D
1511A Series T 1 3/4 Wedge Based LED										
3	Red	12AC/DC	6/12	280	630	L1039-ND	9.43	7.64	5.53	1511A25UR3
	White Clear	12AC/DC	6/12	600	—	L1041-ND	12.59	10.20	7.38	1511A25W3
	White Diff.	12AC/DC	6/12	300	—	L1042-ND	12.59	10.20	7.38	1511A25W3D
	Yellow	24AC/DC	5/10	200	587	L1046-ND	9.43	7.64	5.53	1511A35UY3
	White Clear	24AC/DC	5/10	500	—	L1047-ND◆	12.59	10.20	7.38	1511A35W3
	White Diff.	24AC/DC	5/10	250	—	L1048-ND◆	12.59	10.20	7.38	1511A35W3D
	White Clear	28AC/DC	5/10	500	—	L1053-ND◆	12.59	10.20	7.38	1511A45W3
1511B Series T 3 1/4 Wedge Based LED										
4	Red	12AC/DC	7/14	330	630	L1057-ND◆	9.43	7.64	5.53	1511B25UR3
	Yellow	12AC/DC	7/14	280	587	L1058-ND	9.43	7.64	5.53	1511B25UY3
	White Clear	12AC/DC	7/14	700	—	L1059-ND	12.59	10.20	7.38	1511B25W3
	White Diff.	12AC/DC	7/14	350	—	L1060-ND	12.59	10.20	7.38	1511B25W3D
	Green	24AC/DC	7/14	910	525	L1062-ND◆	12.59	10.20	7.38	1511B35UG3

Fig.	Color	Voltage	Current (mA)	Lumi. Intensity mcd	Wavelength (nm)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
18602 Series T 3 1/4 Bayonet Based LED										
5	Red	12AC/DC	15	350	630	L1073-ND◆	8.96	7.27	5.26	18602250
	Blue	12AC/DC	15	400	470	L1076-ND	12.27	9.95	7.20	18602257
	White Clear	12AC/DC	15	750	—	L1077-ND◆	12.27	9.95	7.20	1860225W3
	White Diff.	12AC/DC	15	375	—	L1078-ND	12.27	9.95	7.20	1860225W3D
	Green	24AC/DC	15	1000	525	L1080-ND◆	12.27	9.95	7.20	18602351
	Yellow	24AC/DC	15	300	587	L1081-ND	9.92	8.04	5.82	18602352
	Blue	24AC/DC	15	400	470	L1082-ND	12.27	9.95	7.20	18602357
	White Clear	24AC/DC	15	750	—	L1083-ND◆	12.27	9.95	7.20	1860235W3
	White Diff.	24AC/DC	15	375	—	L1084-ND◆	12.27	9.95	7.20	1860235W3D
	Red	28AC/DC	15	350	630	L1085-ND◆	8.96	7.27	5.26	18602450
	Green	28AC/DC	15	1000	525	L1086-ND	12.27	9.95	7.20	18602451
	Yellow	28AC/DC	15	300	587	L1087-ND	9.92	8.04	5.82	18602452
	White Clear	28AC/DC	15	750	—	L1089-ND◆	12.27	9.95	7.20	1860245W3
	White Diff.	28AC/DC	15	375	—	L1090-ND◆	12.27	9.95	7.20	1860245W3D
18620 Series T 3 1/4 Bayonet Based Multi LED										
6	Green	24AC/DC	5/10	3 x 680	525	L1092-ND	28.07	22.75	16.46	18620351
	White Clear	24AC/DC	9/17	3 x 850	—	L1095-ND◆	28.07	22.75	16.46	1862035W3
	White Diff.	24AC/DC	9/17	3 x 425	—	L1096-ND	28.07	22.75	16.46	1862035W3D
	Red	28AC/DC	9/17	3 x 400	630	L1097-ND◆	14.62	11.85	8.57	18620450
	White Clear	28AC/DC	9/17	3 x 850	—	L1101-ND	28.07	22.75	16.46	1862045W3
T 1 3/4 Wedge Base — RoHS Compliant										
7	White	28AC	40	—	—	CM85-ND	.73	.59	.43	85
	White	6.3AC	200	—	—	CM86-ND	.84	.69	.50	86
T 2 Telephone Slide Base Type 5 — RoHS Compliant										
8	White	120AC	25	—	—	CM120PSB-ND	1.60	1.30	.94	120PSB
T 3 1/4 Miniature Bayonet Base — RoHS Compliant										
9	White	28AC	40	—	—	CM1819-ND	1.31	1.06	.77	1819

◆ ***RoHS Compliant***

TOSHIBA
Leading Innovation

Mini PLCC Surface Mount LEDs

Digi-Reel® RoHS

Color	Peak Wavelength (nm)	Lens Color	VF Typ. (V)	IF Max. (mA)	Luminous Intensity Iv Typical (mcd)	@(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel§ Qty.	Pricing	Toshiba Part No.
Fig. 1													
Blue	470	Clear	3.3	30	60	20	TLBD1060T18CT-ND	.70	.61	.48	3,000	232.00/M	TLBD1060(T18)
Green	528	Clear	3.3	30	150	20	TLEGD1060T18CT-ND	.88	.76	.60	3,000	290.00/M	TLEGD1060(T18)
Green	558	Clear	2.1	30	20	20	TLPGF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLPGF1060(T18)
Green	565	Clear	2.1	30	50	20	TLFGF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLFGF1060(T18)
Green	571	Clear	2.1	30	80	20	TLGF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLGF1060(T18)
Yellow	580	Clear	2.1	30	100	20	TLPYF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLPYF1060(T18)
Yellow	587	Clear	2.1	30	180	20	TLYF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLYF1060(T18)
Orange	605	Clear	2	30	220	20	TLOF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLOF1060(T18)
Red	630	Clear	2	30	100	20	TLRF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLRF1060(T18)
Red	613	Clear	2	30	200	20	TLSF1060T18CT-ND	.50	.40	.30	3,000	140.00/M	TLSF1060(T18)
NEW! Fig. 2 NEW!													
White	6500†	Clear	3.3	500	90‡	350	TL12W03-DT30CT-ND	5.91	5.32	4.34	500	1635.10	TL12W03-D(T30)
Warm White	2800†	Clear	3.3	500	75‡	350	TL12W03-LT30CT-ND	3.94	3.15	2.45	500	1137.50	TL12W03-L(T30)
Neutral White	5000†	Clear	3.3	500	100‡	350	TL12W03-NT30CT-ND	3.94	3.15	2.45	500	1137.50	TL12W03-N(T30)

† Kalvin Units ‡ lm Units § For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

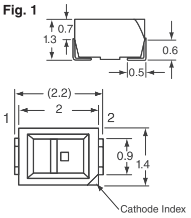

Fig. 2 ***NEW!***

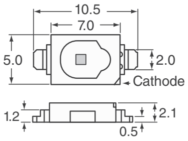

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Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Surface Mount LEDs

Fig. 1

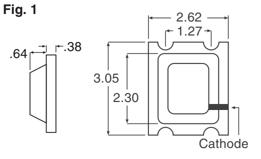

Fig. 2 – Bi-Color

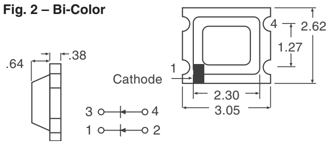

Fig. 3

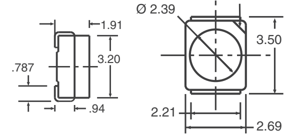

Fig. 4 – Bi-Color

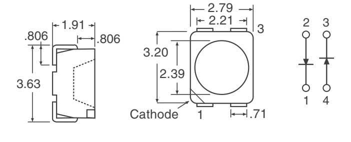

Fig. 5

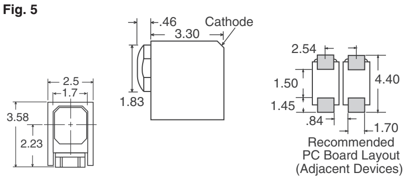

Fig. 6

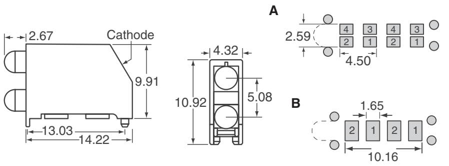

Fig. 7

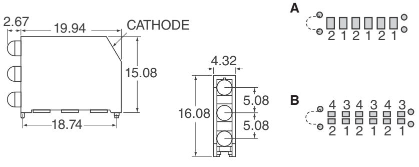

Fig. 8

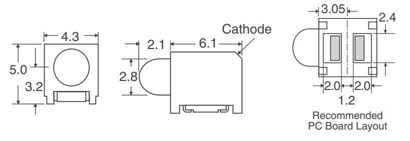

Fig. 9

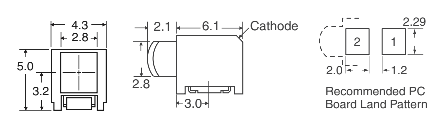

Fig. 10 – Bi-Color

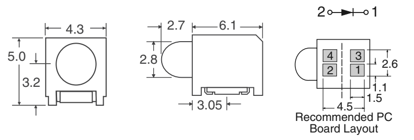

Fig.	Color Position			Wave Length peak (nm) Position			Typical Io (mcd) Position			Typical Vf (V) Position			Typ. If	Digi-Key	Cut Tape Pricing			Tape and Reel†		Dialight
Fig.	1	2	3	1	2	3	1	2	3	1	2	3	(mA)	Part No.	1	25	100	Qty.	Pricing	Part No.
9	White	—	—	—	—	—	37.6	—	—	3.5	—	—	20.0	350-1538-1-ND	3.49	76.37	283.66	—	—	591-2801-113
RoHS Compliant																				
1	Red	—	—	630	—	—	4.0	—	—	2.0	—	—	20.0	350-1568-1-ND	.83	16.09	59.40	3,000	257.40/M	597-3001-107F
	Green	—	—	565	—	—	12.0	—	—	2.0	—	—	20.0	350-1569-1-ND	.83	16.09	59.40	3,000	257.40/M	597-3301-107F
	Yellow	—	—	585	—	—	8.0	—	—	2.1	—	—	20.0	350-1570-1-ND	.93	17.96	66.30	3,000	287.30/M	597-3401-107F
2	Red	Green	—	630	565	—	4.0	12.0	—	2.0	2.0	—	20.0	350-1571-1-ND	1.06	21.16	79.17	3,000	348.08/M	597-7701-107F
	Yellow	Green	—	585	565	—	8.0	12.0	—	2.1	2.0	—	20.0	350-1572-1-ND	1.25	24.80	92.80	3,000	408.00/M	597-7721-107F
	Red	Yellow	—	630	585	—	4.0	8.0	—	2.0	2.1	—	20.0	350-1573-1-ND	.97	18.77	69.30	3,000	300.30/M	597-7731-107F
3	Red	—	—	635	—	—	8.0	—	—	2.0	—	—	20.0	350-1577-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3001-207F
	AlGaAs Red	—	—	660	—	—	20.0	—	—	1.75	—	—	10.0	350-1575-1-ND	.76	14.63	54.00	2,000	234.00/M	597-3121-207F
	Green	—	—	565	—	—	8.0	—	—	2.1	—	—	20.0	350-1574-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3301-207F
	Yellow	—	—	586	—	—	6.0	—	—	2.1	—	—	20.0	350-1576-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3401-207F
	Blue	—	—	428	—	—	11.0	—	—	3.5	—	—	20.0	350-1588-1-ND	2.36	48.79	185.08	2,000	841.25/M	597-3601-207F
	White	—	—	—	—	—	135	—	—	3.5	—	—	20.0	350-1589-1-ND	3.46	75.60	280.80	2,000	1350.00/M	597-3901-207F
4	Red	Green	—	635	565	—	6.0	9.4	—	2.0	2.0	—	10.0	350-1578-1-ND	1.16	23.10	86.42	2,000	379.95/M	597-7701-207F
	Yellow	Green	—	585	565	—	4.0	9.4	—	2.0	2.0	—	10.0	350-1579-1-ND	1.03	20.38	76.27	2,000	335.33/M	597-7721-207F
	Red	Yellow	—	635	586	—	7.3	6.8	—	2.0	2.0	—	10.0	350-1580-1-ND	1.16	23.10	86.42	2,000	379.95/M	597-7731-207F
5	AlGaAs Red	—	—	640	—	—	25.0	—	—	1.7	—	—	20.0	350-1792-1-ND	1.91	38.05	142.39	600	427.17	595-2101-007F
	Green	—	—	567	—	—	11.0	—	—	2.1	—	—	20.0	350-1793-1-ND	1.91	38.05	142.39	600	427.17	595-2301-007F
	Yellow	—	—	588	—	—	9.0	—	—	2.2	—	—	20.0	350-1794-1-ND	1.91	38.05	142.39	600	427.17	595-2401-007F
6A	Red/Green	Red/Green	—	628	570	—	6.5	—	8.0	2.0	2.0	—	30.0	350-1858-1-ND	4.12	90.16	334.88	360	660.74	592-3030-013F
	Yellow/Green	Yellow/Green	—	586	570	—	6.5	—	8.0	2.0	2.0	—	30.0	350-1859-1-ND	4.12	90.16	334.88	360	660.74	592-3131-013F
	Red/Yellow	Red/Yellow	—	628	586	—	6.5	—	6.5	2.0	2.0	—	30.0	350-1860-1-ND	4.12	90.16	334.88	—	—	592-3232-013F
6B	Red	—	—	638	—	—	23.9	—	—	1.8	—	—	10.0	350-1855-1-ND	3.24	67.21	254.93	—	—	592-2121-013F
	Green	—	—	569	—	—	9.1	—	—	2.1	—	—	10.0	350-1856-1-ND	3.24	67.21	254.93	360	483.89	592-2222-013F
	Yellow	—	—	595	—	—	33.6	—	—	2.0	—	—	10.0	350-1857-1-ND	3.30	72.10	267.80	—	—	592-2727-013F
7A	Red	Red	Yellow	628	628	587	6.0	6.0	11.0	2.0	2.0	2.0	30.0	350-2200-1-ND	4.68	97.50	312.00	150	409.50	593-202024-013F
	Green	Green	Green	570	570	570	16.0	16.0	16.0	2.0	2.0	2.0	30.0	350-2203-1-ND	4.68	97.50	312.00	150	409.50	593-222222-013F
	Blue	Blue	Blue	465	465	465	7.0	7.0	7.0	3.5	3.5	3.5	20.0	350-2207-1-ND	7.59	158.13	506.00	150	664.13	593-262626-013F
	AlInGaP Yellow	AlGaAs Red	InGaN Green	587	645	525	80.0	29.0	—	2.0	1.75	3.7	30.0	350-2208-1-ND	6.39	133.13	426.00	150	559.13	593-272129-013F
	InGaN Green	InGaN Green	InGaN Green	525	525	525	—	—	—	3.7	3.7	3.7	10.0	350-2211-1-ND	8.49	176.88	566.00	150	742.88	593-292929-013F
7B	Super Red/Grn.	Super Red/Grn.	Super Red/Grn.	628/570	628/570	628/570	7/10	7/10	7/10	2.0/2.0	2.0/2.0	2.0/2.0	30.0	350-2212-1-ND	5.19	108.13	346.00	—	—	593-303030-013F
	Yellow/Green	Yellow/Green	Yellow/Green	590/570	590/570	590/570	6/10	6/10	6/10	2.0/2.0	2.0/2.0	2.0/2.0	30.0	350-2213-1-ND	5.19	108.13	346.00	150	454.13	593-313131-013F
	Super Red/Ylw.	Super Red/Ylw.	Super Red/Ylw.	628/590	628/590	628/590	9.0/6.0	9.0/6.0	9.0/6.0	2.0/2.0	2.0/2.0	2.0/2.0	30.0	350-2214-1-ND	5.19	108.13	346.00	150	454.13	593-323232-013F
8	Red	—	—	628	—	—	5.0	—	—	2.0	—	—	10.0	350-1785-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2001-013F
	AlGaAs Red	—	—	645	—	—	14.0	—	—	1.75	—	—	10.0	350-1786-1-ND	1.91	38.05	142.39	1,600	653.04/M	591-2101-013F
	Green	—	—	570	—	—	4.0	—	—	2.0	—	—	10.0	350-1787-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2301-013F
	Yellow	—	—	590	—	—	5.0	—	—	2.0	—	—	10.0	350-1788-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2401-013F
	Blue	—	—	428	—	—	6.0	—	—	3.5	—	—	20.0	350-1584-1-ND	3.44	71.20	270.05	1,600	1276.60/M	591-2601-013F
	White	—	—	—	—	—	19.23	—	—	3.5	—	—	20.0	350-1586-1-ND	3.67	80.22	297.96	1,600	1461.15/M	591-2801-013F
	AlInGaP Orange	—	—	606	—	—	16/70	—	—	1.8	—	—	20.0	350-2314-1-ND ***NEW!***	1.77	36.76	139.43	1,600	659.10/M	591-2504-013F
	Yellow	—	—	587	—	—	14/60	—	—	1.8	—	—	20.0	350-2315-1-ND ***NEW!***	1.77	36.76	139.43	1,600	659.10/M	591-2404-013F
	Green	—	—	570	—	—	5/22	—	—	1.8	—	—	20.0	350-2316-1-ND ***NEW!***	1.77	36.76	139.43	1,600	659.10/M	591-2304-013F
	Red	—	—	630	—	—	11/40	—	—	1.8	—	—	20.0	350-2317-1-ND ***NEW!***	1.77	36.76	139.43	1,600	659.10/M	591-2004-013F
9	AlGaAs Red	—	—	645	—	—	24.0	—	—	1.75	—	—	10.0	350-1582-1-ND	1.91	38.05	142.39	1,600	653.04/M	591-2101-113F
	Green	—	—	570	—	—	8.0	—	—	2.0	—	—	10.0	350-1581-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2301-113F
	Yellow	—	—	590	—	—	8.0	—	—	2.0	—	—	10.0	350-1583-1-ND	1.83	36.35	136.01	—	—	591-2401-113F
	Blue	—	—	428	—	—	6.0	—	—	3.5	—	—	20.0	350-1585-1-ND	3.44	71.20	270.05	1,600	1276.60/M	591-2601-113F
	White	—	—	—	—	—	37.6	—	—	3.5	—	—	20.0	350-1587-1-ND	3.67	80.22	297.96	1,600	1461.15/M	591-2801-113F
10	Red	Green	—	628	570	—	6.5	8.0	—	2.0	2.0	—	20.0	350-1789-1-ND	3.06	63.29	240.08	1,600	1134.90/M	591-3001-013F
	Yellow	Green	—	586	570	—	6.5	8.0	—	2.0	2.0	—	20.0	350-1790-1-ND	3.06	63.29	240.08	1,600	1134.90/M	591-3101-013F
	Red	Yellow	—	628	586	—	6.5	6.5	—	2.0	2.0	—	20.0	350-1791-1-ND	2.50	51.77	196.35	—	—	591-3201-013F

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 11 – 1206

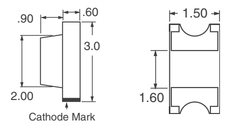

Fig. 12

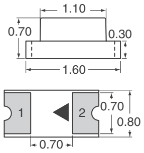

Fig. 13

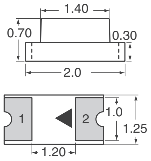

Fig. 14

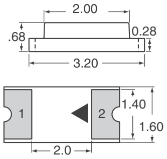

Fig. 15

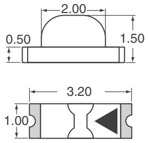

Fig. 16

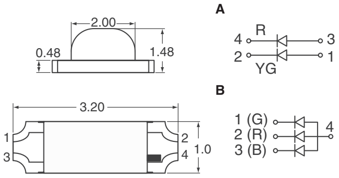

Fig. 17

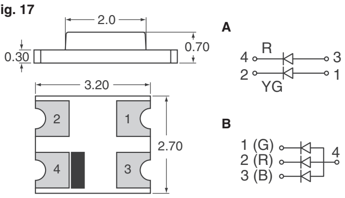

Fig. 18

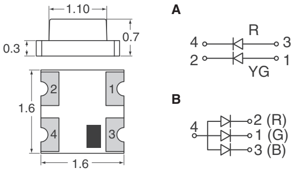

Fig. 19 ***NEW!***

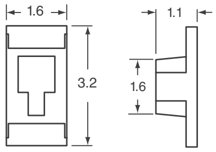

Fig.	Color Position			Wave Length peak (nm) Position			Typical Io (mcd) Position			Typical Vf (V) Position			Typ. If (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Dialight Part No.
	1	2	3	1	2	3	1	2	3	1	2	3			1	25	100	Qty.	Pricing	
11	AlGaAs Red	—	—	660	—	—	17.0	—	—	1.7	—	—	20.0	350-1565-1-ND	.70	13.49	49.80	2,500	215.80/M	597-3111-407F
	Green	—	—	560	—	—	7.5	—	—	2.1	—	—	20.0	350-1566-1-ND	.70	13.49	49.80	2,500	215.80/M	597-3311-407F
	Yellow	—	—	580	—	—	6.0	—	—	2.2	—	—	20.0	350-1567-1-ND	.71	11.66	41.58	2,500	176.40/M	597-3401-407F
12	Red Clear	—	—	642	—	—	40.0	—	—	2.2	—	—	25.0	350-2029-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8010-107F
	Red/Orange Clr.	—	—	630	—	—	150	—	—	2.0	—	—	25.0	350-2030-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8020-107F
	Orange Clear	—	—	610	—	—	—	—	—	2.0	—	—	25.0	350-2031-1-ND	.53	7.70	24.64	4,000	100.80/M	598-8030-107F
	Yellow Clear	—	—	595	—	—	130	—	—	2.0	—	—	25.0	350-2032-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8040-107F
	Yellow Clear	—	—	590	—	—	130	—	—	2.0	—	—	25.0	350-2033-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8050-107F
	Yellow/Grn. Clr.	—	—	575	—	—	40.0	—	—	2.0	—	—	25.0	350-2034-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8060-107F
	Green Clear	—	—	570	—	—	20.0	—	—	2.0	—	—	25.0	350-2035-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8070-107F
	Green Clear	—	—	525	—	—	300	—	—	3.2	—	—	20.0	350-2036-1-ND	.68	13.16	48.60	4,000	210.60/M	598-8081-107F
	Blue Clear	—	—	475	—	—	140	—	—	3.2	—	—	20.0	350-2037-1-ND	.76	12.58	44.88	4,000	190.40/M	598-8091-107F
13	Red Clear	—	—	642	—	—	40.0	—	—	2.2	—	—	25.0	350-2038-1-ND	.17	2.87	10.23	3,000	43.40/M	598-8110-107F
	Red/Orange Clr.	—	—	630	—	—	150	—	—	2.0	—	—	25.0	350-2039-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8120-107F
	Orange Clear	—	—	610	—	—	—	—	—	2.0	—	—	25.0	350-2040-1-ND	.53	7.70	24.64	—	—	598-8130-107F
	Yellow Clear	—	—	595	—	—	130	—	—	2.0	—	—	25.0	350-2041-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8140-107F
	Yellow Clear	—	—	590	—	—	130	—	—	2.0	—	—	25.0	350-2042-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8150-107F
	Yellow/Grn. Clr.	—	—	575	—	—	40.0	—	—	2.0	—	—	25.0	350-2043-1-ND	.39	5.43	16.43	3,000	62.00/M	598-8160-107F
	Green Clear	—	—	570	—	—	20.0	—	—	2.0	—	—	25.0	350-2044-1-ND	.39	5.43	16.43	3,000	62.00/M	598-8170-107F
	Green Clear	—	—	525	—	—	300	—	—	3.2	—	—	25.0	350-2045-1-ND	.68	13.16	48.60	3,000	210.60/M	598-8181-107F
	Blue Clear	—	—	475	—	—	140	—	—	3.2	—	—	25.0	350-2046-1-ND	.62	10.18	36.30	3,000	154.00/M	598-8191-107F
14	Red Clear	—	—	640	—	—	—	—	—	2.0	—	—	25.0	350-2047-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8210-107F
	Red/Orange Clr.	—	—	630	—	—	150	—	—	2.0	—	—	25.0	350-2048-1-ND	.45	6.30	19.08	3,000	72.00/M	598-8220-107F
	Orange Clear	—	—	610	—	—	110	—	—	2.0	—	—	25.0	350-2049-1-ND	.53	7.70	24.64	3,000	100.80/M	598-8230-107F
	Yellow Clear	—	—	595	—	—	130	—	—	2.0	—	—	25.0	350-2050-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8240-107F
	Yellow Clear	—	—	590	—	—	130	—	—	2.0	—	—	25.0	350-2051-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8250-107F
	Yellow/Grn. Clr.	—	—	575	—	—	40.0	—	—	2.0	—	—	25.0	350-2052-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8260-107F
	Green Clear	—	—	570	—	—	20.0	—	—	2.0	—	—	25.0	350-2053-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8270-107F
	Green Clear	—	—	525	—	—	300	—	—	3.2	—	—	25.0	350-2054-1-ND ***NEW!***	.91	14.99	53.46	3,000	226.80/M	598-8281-107F
	Blue Clear	—	—	475	—	—	140	—	—	3.2	—	—	25.0	350-2055-1-ND	.62	10.18	36.30	3,000	154.00/M	598-8291-107F
15	Red Clear	—	—	640	—	—	—	—	—	2.0	—	—	25.0	350-2064-1-ND	.23	3.79	13.53	3,000	57.40/M	598-8310-107F
	Red/Orange Clr.	—	—	630	—	—	120	—	—	2.0	—	—	25.0	350-2065-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8320-107F
	Orange Clear	—	—	610	—	—	110	—	—	2.0	—	—	25.0	350-2066-1-ND	.53	7.70	24.64	3,000	100.80/M	598-8330-107F
	Yellow Clear	—	—	595	—	—	130	—	—	2.0	—	—	25.0	350-2067-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8340-107F
	Yellow Clear	—	—	590	—	—	130	—	—	2.0	—	—	25.0	350-2068-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8350-107F
	Yellow/Grn. Clr.	—	—	575	—	—	50.0	—	—	2.0	—	—	25.0	350-2069-1-ND	.51	7.18	21.73	3,000	82.00/M	598-8360-107F
	Green Clear	—	—	525	—	—	220	—	—	3.2	—	—	25.0	350-2070-1-ND	.68	13.16	48.60	3,000	210.60/M	598-8380-107F
	Blue Clear	—	—	475	—	—	140	—	—	3.2	—	—	25.0	350-2071-1-ND	.46	8.94	33.00	3,000	143.00/M	598-8391-107F
16A	Red	Green Clear	—	645	570	—	60.0	40.0	—	2.0	2.0	—	20.0	350-2072-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8510-207F
	Red/Orange	Green Clear	—	630	570	—	110	40.0	—	2.0	2.0	—	20.0	350-2073-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8520-207F
	Yellow	Green Clear	—	592	570	—	110	40.0	—	2.0	2.0	—	20.0	350-2074-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8540-207F
	Yellow	Red Clear	—	592	645	—	135	50.0	—	2.2	2.2	—	30.0	350-2076-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8560-207F
16B	Red	Green	Blue Clear	645	530	475	60.0	120	90.0	2.2	3.2	3.2	20.0	350-2078-1-ND	2.17	44.95	170.50	3,000	775.00/M	598-8810-307F
17A	Red	Green Clear	—	645	570	—	60.0	40.0	—	2.0	2.0	—	20.0	350-2081-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8610-207F
	Red/Orange	Green Clear	—	630	530	—	100	220	—	2.0	3.2	—	20.0	350-2082-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8621-207F
	Yellow	Green Clear	—	592	570	—	110	40.0	—	2.0	2.0	—	20.0	350-2083-1-ND	.53	8.36	27.36	—	—	598-8640-207F
	Yellow	Red Clear	—	592	645	—	110	60.0	—	2.2	2.2	—	20.0	350-2085-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8660-207F
17B	Red	Green	Blue Clear	645	530	475	60.0	120	90.0	2.0	3.2	3.2	20.0	350-2087-1-ND	2.17	44.95	170.50	3,000	775.00/M	598-8610-307F
18A	Red	Green Clear	—	645	570	—	60.0	40.0	—	2.0	2.0	—	20.0	350-2090-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8410-207F
	Yellow	Green Clear	—	592	575	—	135	50.0	—	2.0	2.0	—	20.0	350-2092-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8440-207F
	Yellow	Green Clear	—	592	530	—	120	120	—	2.0	3.2	—	20.0	350-2093-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8450-207F
	Yellow	Red Clear	—	592	645	—	135	50.0	—	2.0	2.2	—	20.0	350-2094-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8460-207F
18B	Red	Green	Blue Clear	645	530	475	60.0	120	90.0	2.0	3.2	3.2	20.0	350-2096-1-ND	2.17	44.95	170.50	3,000	775.00/M	598-8710-307F
	Red/Orange	Green	Blue Clear	630	530	475	80.0	150	60.0	2.2	3.0	3.2	20.0	350-2097-1-ND	2.17	44.95	170.50	3,000	775.00/M	598-8720-307F
19	White Diffused	—	—	—	—	—	70.0	—	—	2.9	—	—	20.0	350-2306-1-ND ***NEW!***	.76	14.63	54.00	3,000	234.00/M	597-6901-607F
	Blue Clear	—	—	468	—	—	112.5	—	—	3.0	—	—	20.0	350-2307-1-ND ***NEW!***	.63	12.19	45.00	3,000	195.00/M	597-6601-607F
	Yellow/Grn. Clr.	—	—	574	—	—	104.0	—	—	2.1	—	—	20.0	350-2308-1-ND ***NEW!***	.52	8.60	30.69	3,000	130.20/M	597-6501-607F
	Yellow Clear	—	—	588	—	—	239.0	—	—	2.0	—	—	20.0	350-2309-1-ND ***NEW!***	.52	8.60	30.69	3,000	130.20/M	597-6401-607F
	Green Clear	—	—	530	—	—	411.0	—	—	3.3	—	—	20.0	350-2310-1-ND ***NEW!***	.92	17.88	66.00	3,000	286.00/M	597-6301-607F
	Orange Clear	—	—	611	—	—	260.5	—	—	2.0	—	—	20.0	350-2311-1-ND ***NEW!***	.52	8.60	30.69	3,000	130.20/M	597-6201-607F
	Red Clear	—	—	639	—	—	149.0	—	—	2.0	—	—	20.0	350-2312-1-ND ***NEW!***	.52	8.60	30.69	3,000	130.20/M	597-6001-607F

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Through-Hole LEDs

Dimensions in mm

Fig. 1

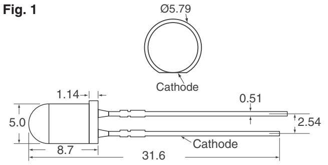

Fig. 2

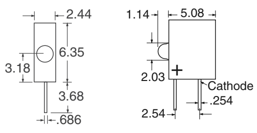

Fig. 3

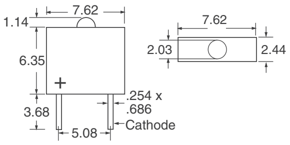

Fig. 4

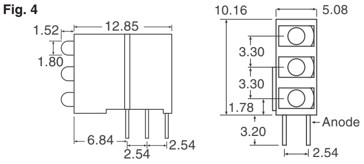

Fig.	Color	Wave Length peak (nm)	Typical Io (mcd)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Dialight Part No.
1	Blue	470	1010	3.8	30.0	350-1563-ND	1.43	1.10	.88	521-9946F
	White	—	1690	3.8	30.0	350-1564-ND	2.84	2.21	1.79	521-9948F
2	Red	650	1.2	1.6	20.0	350-1711-ND	1.41	1.09	.87	555-2001F
	Green	565	1.0	2.4	20.0	350-1716-ND	1.27	.98	.79	555-2301F
	Yellow	583	2.0	2.2	20.0	350-1718-ND	1.43	1.10	.89	555-2401F
	Red	650	1.9	5.0	6.0	350-1712-ND	1.46	1.12	.90	555-2003F
	Red	650	0.9	5.0	3.0	350-1713-ND	1.49	1.14	.92	555-2007F
	Red	650	0.6	5.0	1.0	350-1715-ND	1.47	1.13	.91	555-2009F
	Green	565	2.5	5.0	4.7	350-1717-ND	1.43	1.10	.89	555-2303F
	Yellow	583	2.1	5.0	4.7	350-1719-ND	1.46	1.12	.90	555-2403F
	Red	650	0.9	24.0	3.0	350-1714-ND	1.52	1.17	.94	555-2008F
3	Red	650	1.2	1.6	20.0	350-1720-ND	1.47	1.13	.91	555-3001F
	Green	565	1.0	2.4	20.0	350-1725-ND	1.88	1.45	1.16	555-3301F
	Yellow	583	2.0	2.2	20.0	350-1727-ND	1.88	1.45	1.16	555-3401F
	Red	650	1.9	5.0	6.0	350-1721-ND	1.43	1.11	.89	555-3003F
	Red	650	0.9	5.0	3.0	350-1722-ND	1.72	1.34	1.06	555-3007F
	Red	650	0.6	5.0	1.0	350-1724-ND	1.82	1.41	1.12	555-3009F
	Green	565	2.5	5.0	4.7	350-1726-ND	2.03	1.58	1.25	555-3303F
	Yellow	583	2.1	5.0	4.7	350-1728-ND	2.03	1.58	1.25	555-3403F
	Red	650	0.9	24.0	3.0	350-1723-ND	1.72	1.34	1.06	555-3008F
	Red	650	1.9	5.0	6.0	350-1802-ND	6.65	5.18	4.19	555-5003F
	Red	650	1.2	1.6	20.0	350-1803-ND	5.85	4.55	3.69	555-5001F
	Green	565	1.0	2.4	20.0	350-1804-ND	6.91	5.38	4.36	555-5301F
	Yellow	583	2.0	2.2	20.0	350-1805-ND	6.91	5.38	4.36	555-5401F
4	Green	565	8.7	2.1	20.0	350-1806-ND	2.71	2.10	1.67	570-0100-222F
	Red	635	12.6	2.0	20.0	350-1807-ND	2.71	2.10	1.67	570-0100-111F
	Yellow	585	12.6	2.1	20.0	350-1808-ND	2.71	2.10	1.67	570-0100-333F
	Red/Yellow/Green	635/585/565	12.6/12.6/8.7	2.0/2.1/2.1	20.0	350-1809-ND	2.71	2.10	1.67	570-0100-132F
5	Green	563	16.0	2.1	10.0	350-1810-ND	.83	.62	.52	551-0207F
	Yellow	585	6.3	2.1	10.0	350-1811-ND	.83	.62	.52	551-0307F
	Red	650	10.0	2.0	10.0	350-1812-ND	.83	.62	.52	551-0407F
	Green	565	8.0	5.0	12.0	350-1813-ND	1.18	.91	.73	551-0607F
	Red	635	4.0	5.0	10.0	350-1814-ND	1.18	.91	.73	551-0507F
	Yellow	583	8.0	5.0	10.0	350-1815-ND	1.18	.91	.73	551-0707F
	High Eff. Blue	428	12.0	3.5	20.0	350-1844-ND	2.90	2.26	1.83	551-0807F
	Red	635	1.8	1.8	2.0	350-1816-ND	1.01	.78	.63	551-1107F
	Green	565	1.6	1.8	2.0	350-1817-ND	1.01	.78	.63	551-1307F
	Yellow	583	1.6	1.9	2.0	350-1818-ND	1.01	.78	.63	551-1207F
	Red/Green	635/565	5.0	2.0	10.0	350-1819-ND	1.43	1.11	.88	551-3007F
	Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1820-ND	1.17	.91	.73	551-3107F
6	Blue	470	1000	3.6	30.0	350-1846-ND	5.75	4.47	3.62	551-4007F
	White	—	1270	3.6	30.0	350-1847-ND	10.38	7.89	6.65	551-4107F
7	Green	563	16.0	2.1	10.0	350-1665-ND	.91	.70	.57	551-0209F
	Yellow	585	6.3	2.1	10.0	350-1667-ND	.91	.70	.57	551-0309F
	Red	650	10.0	2.0	10.0	350-1669-ND	.91	.70	.57	551-0409F
	Orange	600	6.5	2.2	10.0	350-1682-ND	1.01	.78	.63	551-2509F
	Red	635	4.0	5.0	10.0	350-1671-ND	1.31	1.01	.81	551-0509F
	Green	565	8.0	5.0	12.0	350-1673-ND	1.31	1.01	.81	551-0609F
	Yellow	583	8.0	5.0	10.0	350-1675-ND	1.31	1.01	.81	551-0709F
	High Eff. Blue	428	12.0	3.5	20.0	350-1845-ND	2.90	2.26	1.83	551-0809F
	Red	635	1.8	1.8	2.0	350-1677-ND	1.01	.78	.63	551-1109F
	Yellow	583	1.6	1.9	2.0	350-1679-ND	1.01	.78	.63	551-1209F
	Green	565	1.6	1.8	2.0	350-1681-ND	1.01	.78	.63	551-1309F
	Red/Green	635/565	5.0	2.0	10.0	350-1684-ND	1.63	1.26	1.00	551-3009F
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1685-ND	1.88	1.46	1.16	551-3109F
8	Green	563	16.0	2.1	10.0	350-1664-ND	3.14	2.45	1.98	551-0207-004F
	Yellow	585	6.3	2.1	10.0	350-1666-ND	3.14	2.45	1.98	551-0307-004F
	Red	650	10.0	2.0	10.0	350-1668-ND	2.92	2.26	1.80	551-0407-004F
	Green	565	8.0	5.0	12.0	350-1672-ND	3.96	3.08	2.50	551-0607-004F
	Red	635	1.8	1.8	2.0	350-1676-ND	3.24	2.52	2.04	551-1107-004F
	Yellow	583	1.6	1.9	2.0	350-1678-ND	4.08	3.18	2.58	551-1207-004F
	Green	565	1.6	1.8	2.0	350-1680-ND	4.08	3.18	2.58	551-1307-004F
	Red/Green	635/565	5.0	2.0	10.0	350-1683-ND	6.92	5.26	4.43	551-3007-004F
9	Red	650	10.0	2.0	10.0	350-1821-ND	1.63	1.26	1.00	553-0111F
	Green	563	16.0	2.1	10.0	350-1825-ND	1.45	1.12	.90	553-0122F
	Yellow	585	6.3	2.1	10.0	350-1826-ND	1.63	1.26	1.00	553-0133F
	Grn.(top)/Red(bot.)	563/650	16.0/10.0	2.1/2.0	10.0	350-1822-ND	1.26	.97	.78	553-0121F
	Grn.(top)/Ylw.(bot.)	563/585	16.0/6.3	2.1/2.1	10.0	350-1823-ND	1.63	1.26	1.00	553-0123F
	Ylw.(top)/Grn.(bot.)	585/563	6.3/16.0	2.1/2.1	10.0	350-1824-ND	1.63	1.26	1.00	553-0132F
	High Efficiency Blue	428	12.0	3.5	20.0	350-1850-ND	5.35	4.17	3.37	553-0188F
	Red	635	1.8	1.8	2.0	350-1827-ND	1.79	1.38	1.10	553-0211F
	Green	565	1.6	1.8	2.0	350-1828-ND	1.79	1.38	1.10	553-0222F
	Yellow	583	1.6	1.9	2.0	350-1830-ND	1.79	1.38	1.10	553-0233F
	Grn.(top)/Ylw.(bot.)	565/583	1.6/1.6	1.8/1.9	2.0	350-1829-ND	1.79	1.38	1.10	553-0223F
	Green	565	8.0	5.0	12.0	350-1831-ND	1.59	1.23	.98	553-0322F
	Red	635	4.0	5.0	10.0	350-1832-ND	1.92	1.48	1.18	553-0311F
	Yellow	583	8.0	5.0	10.0	350-1833-ND	1.92	1.48	1.18	553-0333F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1834-ND	2.39	1.85	1.47	553-0711F
	2x Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1835-ND	2.39	1.85	1.47	553-0744F
10	Red	650	10.0	2.0	10.0	350-1698-ND	1.63	1.26	1.00	553-0111-300F
	Green	563	16.0	2.1	10.0	350-1699-ND	1.63	1.26	1.00	553-0122-300F
	Yellow	585	6.3	2.1	10.0	350-1700-ND	1.63	1.26	1.00	553-0133-300F

Fig. 5

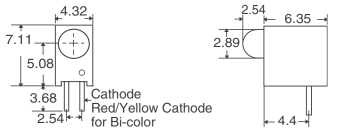

Fig. 6

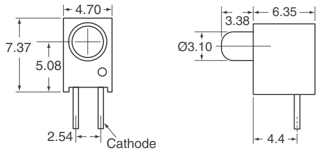

Fig. 7

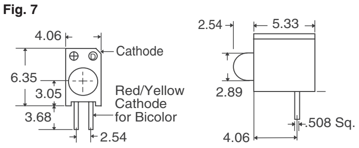

Fig. 8

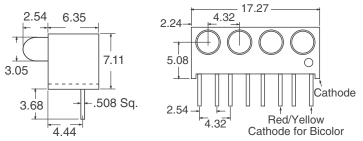

Fig. 9

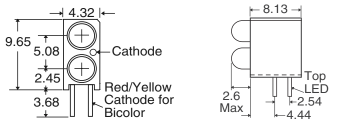

Fig. 10

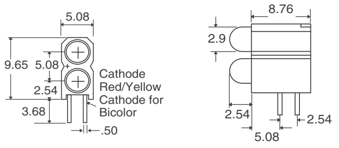

Fig. 11

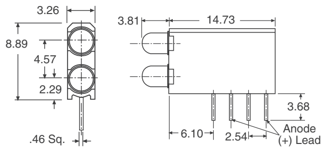

Fig. 12

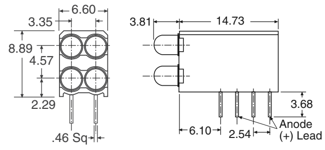

(Continued)

Dimensions in mm

Fig. 13

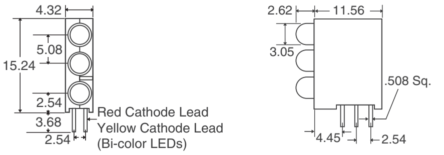

Fig. 14

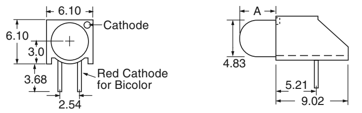

Dimension A: 3.43 for 550-0207F ~ 550-0407[F], 4.90 for 550-1007[F], 5.0 for all others

Fig. 15

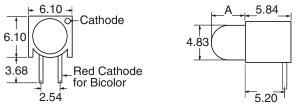

Dim. A: 3.43 for 550-0205[F] ~ 550-0405[F], 5.0 for all others

Fig.	Color	Wave Length peak (nm)	Typical Io (mcd)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
10	Orange	600	6.5	2.2	10.0	350-1701-ND	3.01	2.34	1.90	553-0177-300F
	Red	635	1.8	1.8	2.0	350-1702-ND	1.79	1.38	1.10	553-0211-300F
	Green	565	1.6	1.8	2.0	350-1703-ND	1.79	1.38	1.10	553-0222-300F
	Yellow	583	1.6	1.9	2.0	350-1704-ND	1.79	1.38	1.10	553-0233-300F
	Red	635	4.0	5.0	10.0	350-1705-ND	1.92	1.48	1.18	553-0311-300F
	Green	565	8.0	5.0	12.0	350-1706-ND	1.92	1.48	1.18	553-0322-300F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1708-ND	2.39	1.85	1.47	553-0711-300F
	2x Yellow/Green	585/565	4.3/6.3	2.1	10.0	350-1709-ND	2.15	1.67	1.33	553-0744-300F
	Green Clear	565	12.0	2.3	10.0	350-1710-ND	1.79	1.38	1.10	553-2222-300F
11	Red	635	10.0	2.2	10.0	350-1782-ND	1.86	1.44	1.15	569-0111-100F
	Green	565	8.5	2.3	10.0	350-1783-ND	1.76	1.36	1.08	569-0112-200F
	Yellow	583	10.0	2.2	10.0	350-1784-ND	1.86	1.44	1.15	569-0113-300F
	Blue	428	12.5	3.5	20.0	350-1854-ND	5.63	4.38	3.55	569-0119-900F
12	Red	635	10.0	2.2	10.0	350-1778-ND	2.87	2.22	1.77	569-0101-111F
	Green	565	8.5	2.3	10.0	350-1779-ND	2.71	2.10	1.67	569-0102-222F
	Yellow	583	10.0	2.2	10.0	350-1780-ND	2.87	2.22	1.77	569-0103-333F
13	Red	635	10.0	2.2	10.0	350-1750-ND	2.84	2.20	1.75	564-0100-111F
	Red/Yellow/Green	635/583/565	10.0/10.0/8.5	2.2/2.2/2.3	10.0	350-1751-ND	2.84	2.20	1.75	564-0100-132F
	Green	565	8.5	2.3	10.0	350-1752-ND	2.20	1.70	1.36	564-0100-222F
	Orange	600	6.5	2.2	10.0	350-1753-ND	2.84	2.20	1.75	564-0100-777F
	High Efficiency Blue	428	12.0	3.5	20.0	350-1852-ND	14.36	10.70	9.17	564-0100-999F
	Red	635	1.8	1.8	2.0	350-1754-ND	2.98	2.32	1.88	564-0200-111F
	Red/Yellow/Green	635/583/565	1.8/1.6/1.6	1.8/1.9/1.8	2.0	350-1755-ND	2.98	2.32	1.88	564-0200-132F
	Green	565	1.6	1.8	2.0	350-1756-ND	2.64	2.04	1.63	564-0200-222F
	Red	635	4.0	5.0	10.0	350-1757-ND	2.48	1.93	1.56	564-0300-111F
	Red/Yellow/Green	635/583/565	4.0/8.0/8.0	5.0	10.0/10.0/12.0	350-1758-ND	2.67	2.07	1.65	564-0300-132F
	Green	565	8.0	5.0	12.0	350-1759-ND	3.04	2.37	1.92	564-0300-222F
	3x Red/Green	635/565	5.0	2.0	10.0	350-1760-ND	3.96	3.08	2.50	564-0700-111F
	3x Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1761-ND	3.78	2.94	2.38	564-0700-444F
14	Green	565	12.3	2.1	20.0	350-1599-ND	.83	.62	.52	550-0207F
	Yellow	585	12.3	2.1	20.0	350-1603-ND	.67	.50	.42	550-0307F
	Red	635	12.3	2.0	20.0	350-1606-ND	.83	.62	.52	550-0407F
	Green	565	8.0	5.0	12.0	350-1613-ND	.98	.76	.61	550-0707F
	Yellow	583	8.0	5.0	10.0	350-1617-ND	1.07	.83	.67	550-0807F
	Blue	470	1010	3.8	30.0	350-1843-ND	2.76	2.14	1.70	550-1007F
	Red	635	2.0	1.8	2.0	350-1620-ND	.92	.71	.57	550-1107F
	Yellow	583	1.8	1.9	2.0	350-1624-ND	1.01	.78	.63	550-1207F
	Green	565	1.8	1.8	2.0	350-1627-ND	1.01	.78	.63	550-1307F
	Green	563	10.0	2.1	10.0	350-1630-ND	.68	.53	.43	550-2207F
	Yellow	590	8.0	2.0	10.0	350-1633-ND	.84	.65	.52	550-2307F
	Red	650	7.0	2.2	10.0	350-1636-ND	.68	.52	.42	550-2407F
	Orange	600	7.0	1.9	10.0	350-1640-ND	.84	.65	.52	550-2507F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1643-ND	1.56	1.21	.96	550-3007F
	Red	650	34.0	2.1	20.0	350-1648-ND	.70	.53	.44	550-5107F
	Green	563	34.0	2.2	20.0	350-1651-ND	.70	.53	.44	550-5207F
	Yellow	585	34.0	2.2	20.0	350-1654-ND	.70	.53	.44	550-5307F
	Red Clear	635	125.0	2.2	20.0	350-1657-ND	1.07	.83	.67	550-5507F
	Green Clear	565	120.0	2.3	20.0	350-1660-ND	1.07	.83	.67	550-5607F
	Yellow Clear	583	140.0	2.2	20.0	350-1663-ND	1.07	.83	.67	550-5707F
15	Green	565	12.3	2.1	20.0	350-1598-ND	.83	.62	.52	550-0205F
	Yellow	585	12.3	2.1	20.0	350-1602-ND	.83	.62	.52	550-0305F
	Red	635	12.3	2.0	20.0	350-1605-ND	.83	.62	.52	550-0405F
	Green	565	8.0	5.0	12.0	350-1612-ND	1.07	.83	.67	550-0705F
	Yellow	583	8.0	5.0	10.0	350-1616-ND	1.07	.83	.67	550-0805F
	Blue	470	520	4.0	20.0	350-1842-ND	2.76	2.14	1.70	550-1005F
	Red	635	2.0	1.8	2.0	350-1619-ND	1.01	.78	.63	550-1105F
	Yellow	583	1.8	1.9	2.0	350-1623-ND	1.01	.78	.63	550-1205F
	Green	565	1.8	1.8	2.0	350-1626-ND	1.01	.78	.63	550-1305F
	Green	563	10.0	2.1	10.0	350-1629-ND	.84	.65	.52	550-2205F
	Yellow	585	6.3	2.1	10.0	350-1632-ND	.84	.65	.52	550-2305F
	Red	650	7.0	2.2	10.0	350-1635-ND	.84	.65	.52	550-2405F
	Orange	600	7.0	1.9	10.0	350-1639-ND	.84	.65	.52	550-2505F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1642-ND	1.56	1.21	.96	550-3005F
	Red	650	34.0	2.1	20.0	350-1647-ND	1.01	.78	.63	550-5105F
	Green	563	34.0	2.2	20.0	350-1650-ND	1.01	.78	.63	550-5205F
	Yellow	585	34.0	2.2	20.0	350-1653-ND	1.01	.78	.63	550-5305F
	Red Clear	635	125.0	2.2	20.0	350-1656-ND	1.07	.83	.67	550-5505F
	Green Clear	565	120.0	2.3	20.0	350-1659-ND	1.07	.83	.67	550-5605F
	Yellow Clear	583	140.0	2.2	20.0	350-1662-ND	1.07	.83	.67	550-5705F
16	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1644-ND	2.14	1.65	1.32	550-3509F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1645-ND	2.14	1.65	1.32	550-3609F
17	Green	565	12.3	2.1	20.0	350-1600-ND	3.20	2.50	2.02	550-0207-004F
	Red	635	12.3	2.0	20.0	350-1607-ND	3.20	2.50	2.02	550-0407-004F
	Red	635	2.0	1.8	2.0	350-1621-ND	3.78	2.94	2.38	550-1107-004F
	Red	650	7.0	2.2	10.0	350-1637-ND	3.33	2.59	2.10	550-2407-004F
18	Red	650	7.0	2.2	10.0	350-1686-ND	1.35	1.04	.84	552-0211F
	Green	563	10.0	2.1	10.0	350-1687-ND	1.35	1.04	.84	552-0222F
	Yellow	590	8.0	2.0	10.0	350-1688-ND	1.63	1.26	1.00	552-0233F
	Green	565	8.0	5.0	12.0	350-1689-ND	1.92	1.48	1.18	552-0322F
	Yellow	583	8.0	5.0	10.0	350-1690-ND	1.92	1.48	1.18	552-0333F

Fig. 16

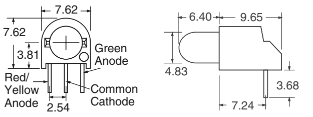

Fig. 17

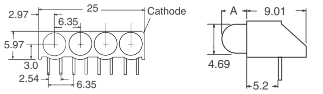

Dim. A: 3.4 for 550-0207-004[F] ~ 550-0407-004[F], 4.95 for all others

Fig. 18

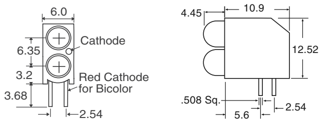

Fig. 19

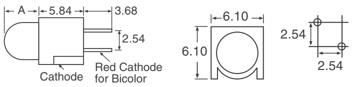

Dim. A: 3.43 for 550-0204[F] ~ 550-0404[F], 5.0 for all others

Fig. 20

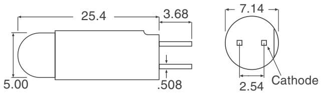

Fig. 21

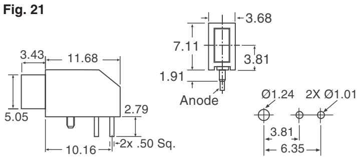

Fig. 22

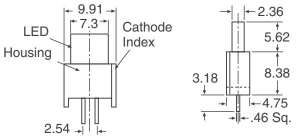

Fig. 23

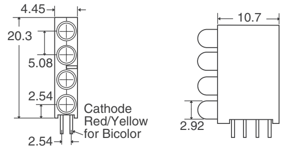

(Continued)

Through-Hole LEDs *(Cont.)*

Dimensions in mm

Fig.	Color	Wave Length peak (nm)	Typical Io (mcd)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
18	Yellow/Green	585/565	8.7/8.7	2.1/2.1	20.0	350-1691-ND	2.39	1.85	1.47	552-0744F
	Red	650	34.0	2.1	20.0	350-1692-ND	1.79	1.38	1.10	552-0811F
	Green	563	34.0	2.2	20.0	350-1693-ND	1.79	1.38	1.10	552-0822F
	Yellow	585	34.0	2.2	20.0	350-1694-ND	1.79	1.38	1.10	552-0833F
	Red	635	2.0	1.8	2.0	350-1695-ND	.90	.69	.56	552-0911F
	Green	565	1.8	1.8	2.0	350-1696-ND	1.51	1.16	.94	552-0922F
	Yellow	583	1.8	1.9	2.0	350-1697-ND	1.79	1.38	1.10	552-0933F
	Blue	470	1010	3.8	30.0	350-1849-ND	5.48	4.26	3.45	552-2388F
19	Green	565	12.3	2.1	20.0	350-1597-ND	.94	.72	.58	550-0204F
	Yellow	585	12.3	2.1	20.0	350-1601-ND	.94	.72	.58	550-0304F
	Red	635	12.3	2.0	20.0	350-1604-ND	.94	.72	.58	550-0404F
	Green	565	8.0	5.0	12.0	350-1611-ND	1.31	1.01	.81	550-0704F
	Yellow	583	8.0	5.0	10.0	350-1615-ND	1.31	1.01	.81	550-0804F
	Blue	470	520	4.0	20.0	350-1841-ND	2.89	2.23	1.78	550-1004F
	Red	635	2.0	1.8	2.0	350-1618-ND	1.08	.84	.67	550-1104F
	Yellow	583	1.8	1.9	2.0	350-1622-ND	1.08	.84	.67	550-1204F
	Green	565	1.8	1.8	2.0	350-1625-ND	1.08	.84	.67	550-1304F
	Green	563	10.0	2.1	10.0	350-1628-ND	1.11	.85	.69	550-2204F
	Yellow	590	8.0	2.0	10.0	350-1631-ND	1.11	.85	.69	550-2304F
	Red	650	7.0	2.2	10.0	350-1634-ND	1.11	.85	.69	550-2404F
	Orange	600	7.0	1.9	10.0	350-1638-ND	.84	.65	.52	550-2504F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1641-ND	2.04	1.58	1.26	550-3004F
	Red	650	34.0	2.1	20.0	350-1646-ND	1.21	.93	.75	550-5104F
	Green	563	34.0	2.2	20.0	350-1649-ND	1.21	.93	.75	550-5204F
	Yellow	585	34.0	2.2	20.0	350-1652-ND	1.21	.93	.75	550-5304F
	Red Clear	635	125.0	2.2	20.0	350-1655-ND	1.28	.98	.79	550-5504F
	Green Clear	565	120.0	2.3	20.0	350-1658-ND	1.28	.98	.79	550-5604F
20	Red	635	8.0	5.0	10.0	350-1731-ND	1.00	.77	.62	561-0104-100F
	Red	635	2.0	1.8	2.0	350-1732-ND	.88	.68	.55	561-1101-100F
	Green	565	1.8	1.8	2.0	350-1734-ND	.88	.68	.55	561-1301-100F
	Red	635	7.0	2.2	10.0	350-1735-ND	.80	.62	.50	561-2101-100F
	Green	565	32.0	2.0	20.0	350-1736-ND	1.72	1.33	1.06	561-2201-100F
	Green Tinted	565	70.0	2.3	10.0	350-1739-ND	.86	.66	.53	561-2501-100F
	Red	650	34.0	2.1	20.0	350-1744-ND	.93	.72	.58	561-5101-100F
	Green	563	34.0	2.2	20.0	350-1745-ND	.93	.72	.58	561-5201-100F
	Red Clear	635	125.0	2.2	20.0	350-1747-ND	1.00	.77	.62	561-5501-100F
	Green Clear	565	120.0	2.3	20.0	350-1748-ND	.94	.72	.58	561-5601-100F
	Green	525	2200	3.5	20.0	350-1863-ND	4.81	3.74	3.03	561-5902-100F
	White	—	1100	3.5	20.0	350-1862-ND	4.81	3.74	3.03	561-6002-100F
21	Green	565	4.0	2.2	20.0	350-1762-ND	1.38	1.06	.85	566-0206F
	Yellow	583	3.5	2.1	20.0	350-1764-ND	1.38	1.06	.85	566-0306F
	Red	635	6.0	2.0	20.0	350-1729-ND	1.46	1.12	.90	566-0406F
22	Red	635	5.0	1.9	20.0	350-1741-ND	1.83	1.42	1.13	561-4101-055F
	Green	565	2.5	2.3	20.0	350-1742-ND	1.83	1.42	1.13	561-4201-055F
	Yellow	583	5.0	2.1	20.0	350-1743-ND	1.83	1.42	1.13	561-4301-055F
23	Red	635	10.0	2.2	10.0	350-1767-ND	3.33	2.59	2.10	568-0101-111F
	Green	565	8.5	2.3	10.0	350-1768-ND	3.33	2.59	2.10	568-0102-222F
	Grn./Ylw./Grn./Ylw.	565/583	8.5/10.0	2.1/2.2	10.0	350-1769-ND	3.33	2.59	2.10	568-0102-323F
	Orange	600	6.5	2.2	10.0	350-1770-ND	3.33	2.59	2.10	568-0107-777F
	Red	635	1.8	1.8	2.0	350-1771-ND	3.70	2.89	2.34	568-0201-111F
	Green	565	1.6	1.8	2.0	350-1772-ND	3.70	2.89	2.34	568-0202-222F
	Grn./Ylw./Grn./Ylw.	565/583	1.6	1.8/1.9	2.0	350-1773-ND	3.70	2.89	2.34	568-0202-323F
	Red	635	4.0	5.0	10.0	350-1774-ND	3.96	3.08	2.50	568-0301-111F
	Green	565	8.0	5.0	12.0	350-1775-ND	3.96	3.08	2.50	568-0302-222F
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1776-ND	4.94	3.85	3.12	568-0701-111F
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1777-ND	4.94	3.85	3.12	568-0704-444F
24	Red	635	12.6	2.0	30.0	350-1864-ND	1.76	1.36	1.08	571-0111F
	Green	565	8.7	2.1	30.0	350-1865-ND	1.76	1.36	1.08	571-0122F
	Yellow	585	12.06	2.1	20.0	350-1866-ND	1.76	1.36	1.08	571-0133F
	Yellow/Green	585/565	12.6/8.7	2.1/2.1	20.0/30.0	350-1867-ND	1.76	1.36	1.08	571-0132F
	Red/Green	635/565	12.6/8.7	2.0/2.1	30.0/30.0	350-1868-ND	1.76	1.36	1.08	571-0112F
25	Red	635	10.0	2.0	20.0	350-1555-ND	.67	.51	.42	521-9216F
	Orange	600	7	2.2	20.0	350-1556-ND	.58	.45	.36	521-9498F
	Green	565	12.6	2.1	20.0	350-1557-ND	.67	.51	.42	521-9210F
	Yellow	583	10.0	2.2	20.0	350-1558-ND	.67	.51	.42	521-9211F
	White	—	1010	3.6	30.0	350-1561-ND	2.55	1.97	1.57	521-9901F
	Blue	464	460	3.5	30.0	350-1562-ND	1.43	1.10	.88	521-9918F
26	Blue	465	12.0	3.5	20.0	350-1560-ND	2.75	2.13	1.70	521-9831F
27	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1559-ND	1.50	1.16	.92	521-9450F
28	Red	650	1.2	1.6	20.0	350-1799-ND	4.01	3.12	2.53	555-4001F
	Green	565	1.0	2.4	20.0	350-1800-ND	4.63	3.61	2.92	555-4301F
	Yellow	583	2.0	2.2	20.0	350-1801-ND	4.08	3.18	2.58	555-4401F
	Red	650	1.9	5.0	6.0	350-1795-ND	4.51	3.52	2.85	555-4003F
	Red	650	0.9	5.0	3.0	350-1796-ND	4.51	3.52	2.85	555-4007F
	Green	565	2.5	5.0	4.7	350-1797-ND	4.63	3.61	2.92	555-4303F
	Yellow	583	2.1	5.0	4.7	350-1798-ND	4.63	3.61	2.92	555-4403F
29	Red/Green	630/560	4.0	2.0/2.1	20.0	350-1836-ND	2.00	1.54	1.23	551-3508F
30	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1837-ND	2.14	1.65	1.32	550-3505F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1838-ND	2.14	1.65	1.32	550-3605F
31	2x Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1839-ND	3.78	2.94	2.38	552-3511F
	2x Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1840-ND	3.78	2.94	2.38	552-3544F
32	Green	565	4.0	2.2	20.0	350-1763-ND	1.31	1.01	.81	566-0207F
	Yellow	583	3.5	2.1	20.0	350-1765-ND	1.31	1.01	.81	566-0307F
	Red	635	7.4	2.0	20.0	350-1730-ND	1.39	1.07	.86	566-0407F
33	Red/Green	635/565	3.5/4.0	1.9/2.1	20.0	350-1766-ND	2.49	1.93	1.53	566-3507F
34	White Clear	—	1100	3.5	20.0	350-2318-ND ***NEW!***	.40	.31	.25	521-9901-802F

Fig. 24

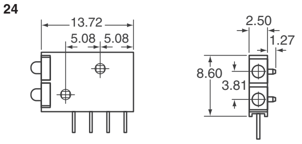

Fig. 25

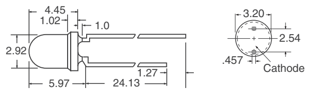

Fig. 26

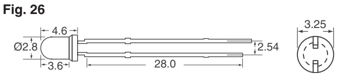

Fig. 27

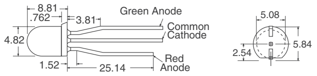

Fig. 28

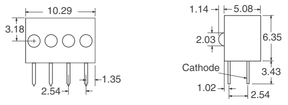

Fig. 29

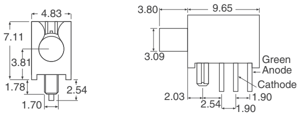

Fig. 30

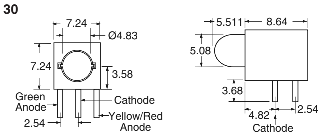

Fig. 31

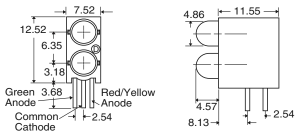

Fig. 32

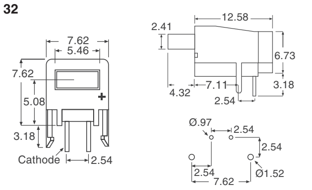

Fig. 33

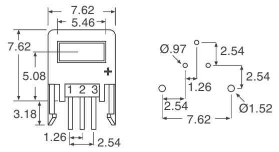

Fig. 34 ***NEW!***

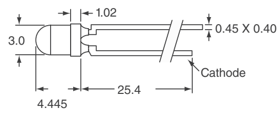

LED Arrays

Fig. 1

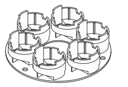

Fig. 2

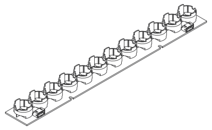

Fig. 3

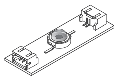

Fig. 4

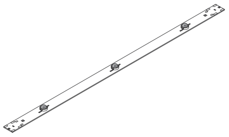

Fig. 5

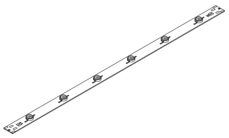

Fig. 6

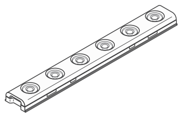

Fig.	Description	Digi-Key Part No.	Price Each			Dialight Part No.
			1	25	100	
	LumiSpot™					
1	6x1W, Warm White, 69mm	350-1993-ND	71.19	60.04	57.04	LSP6-WW-XXX
	6x1W, White, 69mm	350-1994-ND	71.19	60.04	57.04	LSP6-W-XXX
	Colour™ Engine RGB					
2	12x1W, Linear	350-1924-ND	126.43	115.14	112.89	CE12L-RGB-XXX
	LinkLED™ 1W on MCPCB with Connectors					
3	Blue	350-1947-ND	17.00	12.67	10.86	LK1-1-B
	White	350-1950-ND	18.93	14.10	12.09	LK1-1-W

Fig.	Description	Digi-Key Part No.	Price Each			Dialight Part No.
			1	25	100	
	LinkLED™					
—	Red/Green/Blue	350-1953-ND	40.68	32.16	28.09	LK-3-RGB
	Red/Green/Blue, Modular	350-1956-ND	46.61	37.80	35.91	LKOP-RGB-XXX
	LumiLight™					
4	3x1W, Green	350-1969-ND	37.49	29.64	25.89	LLT3-G
	3x1W, Red	350-1970-ND	34.41	27.21	23.76	LLT3-R
5	6x1W, White	350-1977-ND	58.04	47.27	45.61	LLT6-W
	PowerWhite Modules					
6	Cool White	350-2219-ND	77.90	71.41	64.92	LML6-LV-CW-WD
	Cool White	350-2220-ND	77.90	71.41	64.92	LML6-LV-CW-OV

Accessories

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Colourdriver Cable Male to Male, 3 Meters, 8-way	350-1921-ND	28.43	22.47	19.63	CDL-M3M
Linking Cable Female to Female, 2-way, 200mm	350-1931-ND	1.17	.91	.72	CT2-200
Linking Cable Female to Female, 4-way, 200mm	350-1935-ND	2.24	1.75	1.42	CT4-200
Linking Cable 4-way Common Connector	350-1936-ND	2.00	1.54	1.23	CT4-C
Linking Cable 4-way Plug to 8-way Molex Male	350-1938-ND	6.75	5.13	4.32	CT4-MLXM
Osram Optics Evaluation Kit for Golden Dragon with Holder	350-1940-ND	44.40	36.00	34.20	L2-KL2
Luxeon K2 Optics Evaluation Kit with Holder	350-1941-ND	44.40	36.00	34.20	L2-KL3
Golden Dragon Optic Holder, Black	350-2009-ND	.86	.56	.48	OH-GD-BK
20mm Series Spot Optic 5° F-Form Lens	350-2013-ND	2.00	1.32	1.14	OP-005
20mm Series Medium Optic 15° F-Form Lens	350-2014-ND	2.00	1.32	1.14	OP-015
20mm Series Wide Optic 25° F-Form Lens	350-2015-ND	2.00	1.32	1.14	OP-025
20mm Series Oval Optic 5° x 20° F-Form Lens	350-2016-ND	2.00	1.32	1.14	OP-520

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Luxeon K2 Spot Base Module 3°	350-2019-ND	2.71	2.09	1.67	OPK2-1-003
Luxeon K2 Triple Spot Base Module 6°	350-2020-ND	4.74	3.69	2.99	OPK2-3-006
Lens, Spot Base Module 6°, XLamp	350-2191-ND	3.15	2.21	1.89	OPTX-1-006
Lens, Oval, Sub 4° x 27°, XLamp	350-2192-ND	1.20	.75	.68	OPAA-1-OSL
Lens, Wide, Sub 12°, XLamp	350-2193-ND	1.20	.75	.68	OPAA-1-WSL
Lens, Spot Base Rebel, 5°	350-2194-ND	1.77	1.37	1.09	OPC1-1-SPOT
Lens, Base Module Medium, Rebel, 15°	350-2195-ND	1.77	1.37	1.09	OPC1-1-MED
Luxeon Rebel Wide Base Module, 25°	350-2216-ND	1.15	.93	.89	OPC1-1-WIDE
Converter Lead RJ45 to XLR, Female	350-2027-ND	15.75	11.73	10.05	RJ45-XLRF
Converter Lead RJ45 to XLR, Male	350-2028-ND	15.75	11.73	10.05	RJ45-XLRM
Linking Cable Male Molex to RJ45 Male	350-2230-ND	18.40	13.71	11.75	RJ45-MLXM
Linking Cable Male Molex to RJ45 Female	350-2231-ND	18.40	13.71	11.75	RJ45-MLXF

Drivers

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Colourdriver™36, Three Channel, RGB LED Driver	350-1922-ND	146.30	140.25	137.50	CDU-L-3-35-DMX
Microdriver™4, 4x1W, High Powered LED 350mA	350-2000-ND	29.26	21.79	18.68	MDU4-SC-35
Microdriver 9, 9x1W, High Powered LED 350mA or 4x3W LED at 700mA	350-2001-ND	31.08	24.57	21.46	MDU9-SC-3570
Microdriver MLV3™, 3x1W, Non-Dim, 350mA	350-2002-ND	23.54	18.61	16.26	MLV3-C-35
Microdriver MLV3, 3x1W, Non-Dim, 700mA	350-2003-ND	23.54	18.61	16.26	MLV3-C-70
Colourdriver RF, LED Color Mixing	350-2021-ND	115.54	105.23	103.17	RFCC-MASTER

Dialight Panel Mount LEDs

Fig.	Lens	Housing	Color	Wavelength Peak (nm)	Typical Io (fL)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
									1	25	100	
1	Flat	Nickel Plated Brass	White	—	4,000	12.0 DC	60.0	350-1415-ND	43.50	35.28	33.52	556-1003-304
			White	—	4,000	24.0 DC	32.0	350-1416-ND	43.50	35.28	33.52	556-1004-304
			White	—	1,800	125.0 AC	9.5	350-1417-ND	43.50	35.28	33.52	556-1005-304
			Red	639	3,000	12.0 DC	95.0	350-1418-ND	35.91	28.39	24.80	556-1503-304
			Red	639	3,000	24.0 DC	46.0	350-1419-ND	35.91	28.39	24.80	556-1504-304
			Red	639	1,200	125.0 AC	10.5	350-1420-ND	35.91	28.39	24.80	556-1505-304
			Green	525	4,000	12.0 DC	60.0	350-1421-ND	41.53	32.83	28.68	556-1603-304
			Green	525	4,000	24.0 DC	32.0	350-1422-ND	41.53	32.83	28.68	556-1604-304
			Green	525	1,800	125.0 AC	9.5	350-1423-ND	41.53	32.83	28.68	556-1605-304
			Yellow	594	3,000	12.0 DC	95.0	350-1424-ND	35.91	28.39	24.80	556-1703-304
			Yellow	594	3,000	24.0 DC	46.0	350-1425-ND	35.91	28.39	24.80	556-1704-304
			Yellow	594	1,200	125.0 AC	10.5	350-1426-ND	35.91	28.39	24.80	556-1705-304
			Blue	470	1,200	12.0 DC	60.0	350-1427-ND	43.50	35.28	33.52	556-1803-304
			Blue	470	1,200	24.0 DC	32.0	350-1428-ND	43.50	35.28	33.52	556-1804-304
			Blue	470	500.0	125.0 AC	9.5	350-1429-ND	43.50	35.28	33.52	556-1805-304
2	Dome	Nickel Plated Brass	White	—	1,200	12.0 DC	60.0	350-1430-ND	43.50	35.28	33.52	556-3003-304
			White	—	700.0	125.0 AC	9.5	350-1432-ND	43.50	35.28	33.52	556-3005-304
			Red	639	1,300	12.0 DC	95.0	350-1433-ND	35.91	28.39	24.80	556-3503-304
			Red	639	1,300	24.0 DC	46.0	350-1434-ND	35.91	28.39	24.80	556-3504-304
			Red	639	500.0	125.0 AC	10.5	350-1435-ND	35.91	28.39	24.80	556-3505-304
			Green	525	1,800	12.0 DC	60.0	350-1436-ND	41.53	32.83	28.68	556-3603-304
			Green	525	1,800	24.0 DC	32.0	350-1437-ND	41.53	32.83	28.68	556-3604-304
			Green	525	700.0	125.0 AC	9.5	350-1438-ND	41.53	32.83	28.68	556-3605-304
			Yellow	594	1,300	12.0 DC	95.0	350-1439-ND	35.91	28.39	24.80	556-3703-304
			Yellow	594	1,300	24.0 DC	46.0	350-1440-ND	35.91	28.39	24.80	556-3704-304
			Yellow	594	500.0	125.0 AC	10.5	350-1441-ND	35.91	28.39	24.80	556-3705-304
			Blue	470	480.0	12.0 DC	60.0	350-1442-ND	43.50	35.28	33.52	556-3803-304
			Blue	470	480.0	24.0 DC	32.0	350-1443-ND	43.50	35.28	33.52	556-3804-304
			Blue	470	180.0	125.0 AC	9.5	350-1444-ND	43.50	35.28	33.52	556-3805-304
3	Dome	White Poly-carbonate	Yellow/Green	592/525	400/1,000	5.0 DC	70.0/16.0	350-1449-ND	19.39	14.44	12.38	557-1432-203
			Red	660	1,000	12.0 DC	20.0	350-1451-ND	14.19	10.57	9.06	557-1503-203
			Red	660	1,000	24.0 DC	20.0	350-1452-ND	14.19	10.57	9.06	557-1505-203
			Green	525	1,000	5.0 DC	16.0	350-1453-ND	15.70	11.70	10.03	557-1602-203
			Green	525	1,000	12.0 DC	16.0	350-1454-ND	15.70	11.70	10.03	557-1603-203
			Green	525	1,000	24.0 DC	16.0	350-1455-ND	15.70	11.70	10.03	557-1605-203
			Yellow	592	1,000	5.0 DC	80.0	350-1456-ND	14.19	10.57	9.06	557-1702-203
			Yellow	592	1,000	12.0 DC	20.0	350-1457-ND	14.19	10.57	9.06	557-1703-203
			Yellow	592	1,000	24.0 DC	20.0	350-1458-ND	14.19	10.57	9.06	557-1705-203
			Blue	470	250.0	12.0 DC	16.0	350-1460-ND	15.70	11.70	10.03	557-1803-203
4	Dome	Valox	Red	650	10.0‡	2.0	10.0	350-2117-ND◆	1.73	1.34	1.07	558-0101-007F
			Red	635	29.0‡	5.0	12.0	350-2118-ND◆	2.09	1.62	1.29	558-0102-007F
			Green	563	16.0‡	2.1	10.0	350-2119-ND◆	1.73	1.34	1.07	558-0201-007F
			Green	565	19.0‡	5.0	12.0	350-2120-ND◆	2.09	1.62	1.29	558-0202-007F
			Yellow	585	10.0‡	2.1	10.0	350-2121-ND◆	1.73	1.34	1.07	558-0301-007F
			Yellow	585	12.6‡	5.0	12.0	350-2122-ND◆	2.09	1.62	1.29	558-0302-007F
			Blue	428	13.0	3.5	10.0	350-1591-ND◆	3.40	2.65	2.14	558-0803-007F
			Red/Green	635/565	4.8/4.8‡	2.0/2.1	20.0	350-2123-ND◆	2.33	1.80	1.43	558-3001-007F
			Yellow/Green	585/565	4.3/6.8‡	2.1	10.0	350-2124-ND◆	2.33	1.80	1.43	558-3201-007F
			Blue	464	460.0	3.5	20.0	350-1592-ND◆	3.40	2.65	2.14	558-6003-007F
			White	—	850.0	3.6	20.0	350-1593-ND◆	3.40	2.65	2.14	558-6403-007F
5	Dome	Valox	Red	655	2.0‡	12.0	13.0	350-2126-ND◆	1.94	1.51	1.20	559-0103-007F
			Green	565	8.0‡	5.0	12.0	350-2127-ND◆	1.94	1.51	1.20	559-0202-007F
			Green	565	4.0‡	12.0	13.0	350-2128-ND◆	1.94	1.51	1.20	559-0203-007F
			Yellow	583	8.0‡	5.0	10.0	350-2129-ND◆	1.94	1.51	1.20	559-0302-007F
			Yellow	583	8.0‡	12.0	13.0	350-2130-ND◆	1.94	1.51	1.20	559-0303-007F
			Red	650	34.0‡	2.1	20.0	350-2133-ND◆	1.64	1.27	1.01	559-5101-007F
			Green	563	34.0‡	2.2	20.0	350-2134-ND◆	1.64	1.27	1.01	559-5201-007F
			Yellow	583	34.0‡	2.2	20.0	350-2135-ND◆	1.64	1.27	1.01	559-5301-007F
			Blue	468	650.0	3.6	20.0	350-1594-ND◆	8.52	6.48	5.46	559-6001-007F
			Green	520	2200.0	3.5	20.0	350-1595-ND◆	8.52	6.48	5.46	559-6201-007F
			White	—	600.0	3.5	20.0	350-1596-ND◆	8.52	6.48	5.46	559-6401-007F
6	Dome	Valox	Red/Green	635/565	5/8‡	2.1/2.3	10.0	350-2131-ND◆	3.54	2.76	2.23	559-3501-007F
			Yellow/Green	583/565	5/8‡	1.6/1.6	10.0	350-2132-ND◆	3.54	2.76	2.23	559-3601-007F
7	Dome	Chrome Plated	Red	630	8.0	6.0	15.0	350-1869-ND◆	4.17	3.25	2.63	607-1112-120F
			Red	630	8.0	12.0	15.0	350-1870-ND◆	4.17	3.25	2.63	607-1112-130F
			Green	560	8.0	6.0	15.0	350-1871-ND◆	4.43	3.45	2.79	607-1212-120F
			Green	560	8.0	12.0	15.0	350-1872-ND◆	4.43	3.45	2.79	607-1212-130F
			Yellow	587	2.4	6.0	15.0	350-1873-ND◆	4.43	3.45	2.79	607-1312-120F
			Yellow	587	2.4	12.0	15.0	350-1874-ND◆	4.43	3.45	2.79	607-1312-130F
8	Dome	Chrome Plated	Red	630	8.0	6.0	15.0	350-1875-ND◆	4.17	3.25	2.63	607-2112-120F
			Red	630	8.0	12.0	15.0	350-1876-ND◆	4.17	3.25	2.63	607-2112-130F
			Green	560	8.0	6.0	15.0	350-1877-ND◆	4.43	3.45	2.79	607-2212-120F
			Green	560	8.0	12.0	15.0	350-1878-ND◆	4.43	3.45	2.79	607-2212-130F
			Yellow	587	2.4	6.0	15.0	350-1879-ND◆	4.43	3.45	2.79	607-2312-120F
			Yellow	587	2.4	12.0	15.0	350-1880-ND◆	4.43	3.45	2.79	607-2312-130F
9	Dome	Chrome Plated	Red	635	60.0	6.0	15.0	350-1881-ND◆	3.95	3.08	2.49	609-1112-120F
			Red	635	60.0	12.0	15.0	350-1882-ND◆	3.95	3.08	2.49	609-1112-130F
			Red	635	60.0	24.0	15.0	350-1883-ND◆	3.95	3.08	2.49	609-1112-140F
			Green	565	112.0	6.0	15.0	350-1887-ND◆	3.95	3.08	2.49	609-1212-120F
			Green	565	112.0	12.0	15.0	350-1888-ND◆	3.95	3.08	2.49	609-1212-130F
			Green	565	112.0	24.0	15.0	350-1889-ND◆	3.95	3.08	2.49	609-1212-140F
			Yellow	585	90.0	6.0	15.0	350-1893-ND◆	3.95	3.08	2.49	609-1312-120F
			Yellow	585	90.0	12.0	15.0	350-1894-ND◆	3.95	3.08	2.49	609-1312-130F
			Yellow	585	90.0	24.0	15.0	350-1895-ND◆	3.95	3.08	2.49	609-1312-140F
	Dome	Black	Red	635	60.0	6.0	15.0	350-1884-ND◆	4.27	3.32	2.69	609-1122-120F
			Red	635	60.0	12.0	15.0	350-1885-ND◆	4.27	3.32	2.69	609-1122-130F
			Red	635	60.0	24.0	15.0	350-1886-ND◆	4.27	3.32	2.69	609-1122-140F
			Green	565	112.0	6.0	15.0	350-1890-ND◆	4.27	3.32	2.69	609-1222-120F
			Green	565	112.0	12.0	15.0	350-1891-ND◆	4.27	3.32	2.69	609-1222-130F
			Green	565	112.0	24.0	15.0	350-1892-ND◆	4.27	3.32	2.69	609-1222-140F
			Yellow	585	90.0	12.0	15.0	350-1897-ND◆	4.27	3.32	2.69	609-1322-130F
			Yellow	585	90.0	24.0	15.0	350-1898-ND◆	4.27	3.32	2.69	609-1322-140F
10	Dome	Chrome Plated	Red	635	60.0	6.0	15.0	350-1899-ND◆	3.95	3.08	2.49	609-2112-120F
			Red	635	60.0	12.0	15.0	350-1900-ND◆	3.95	3.08	2.49	609-2112-130F

◆ ***RoHS Compliant*** ‡ Typical Intensity (mcd)

Dimensions in mm

Fig. 1

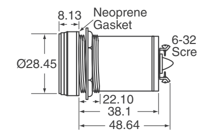

NEMA 4X IP66

Fig. 2

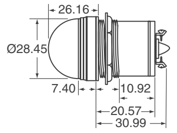

NEMA 4X IP66

Fig. 3

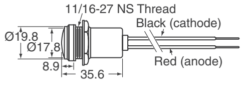

Bi-Color has 3 leads

Fig. 4

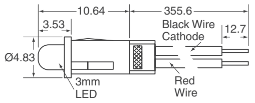

Fig. 5

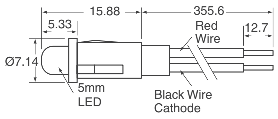

Fig. 6

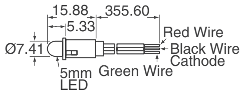

Fig. 7

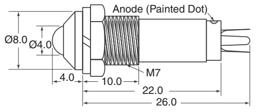

(Continued)

Dialight Panel Mount LEDs *(Cont.)*

Dimensions in mm

Fig.	Lens	Housing	Color	Wavelength Peak (nm)	Typical Io (fL)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
10	Dome	Chrome Plated	Red	635	60.0	24.0	15.0	350-1901-ND◆	3.95	3.08	2.49	609-2112-140F
			Green	565	112.0	6.0	15.0	350-1905-ND◆	3.95	3.08	2.49	609-2212-120F
			Green	565	112.0	12.0	15.0	350-1906-ND◆	3.95	3.08	2.49	609-2212-130F
			Green	565	112.0	24.0	15.0	350-1907-ND◆	3.95	3.08	2.49	609-2212-140F
			Yellow	585	90.0	24.0	15.0	350-1913-ND◆	3.95	3.08	2.49	609-2312-140F
	Dome	Black	Red	635	60.0	12.0	15.0	350-1903-ND◆	4.27	3.32	2.69	609-2122-130F
			Red	635	60.0	24.0	15.0	350-1904-ND◆	4.27	3.32	2.69	609-2122-140F
			Green	565	112.0	6.0	15.0	350-1908-ND◆	4.27	3.32	2.69	609-2222-120F
			Green	565	112.0	12.0	15.0	350-1909-ND◆	4.27	3.32	2.69	609-2222-130F
			Green	565	112.0	24.0	15.0	350-1910-ND◆	4.27	3.32	2.69	609-2222-140F
			Yellow	585	90.0	12.0	15.0	350-1915-ND◆	4.27	3.32	2.69	609-2322-130F
			Yellow	585	90.0	24.0	15.0	350-1916-ND◆	4.27	3.32	2.69	609-2322-140F
11	Flat	Black	Red	635	60.0	6.0	15.0	350-2099-ND◆	4.49	3.50	2.83	612-3132-120F
			Red	635	60.0	12.0	15.0	350-2100-ND◆	4.49	3.50	2.83	612-3132-130F
			Red	635	60.0	24.0	15.0	350-2101-ND◆	4.49	3.50	2.83	612-3132-140F
			Green	565	110.0	6.0	15.0	350-2102-ND◆	4.49	3.50	2.83	612-3232-120F
			Green	565	110.0	12.0	15.0	350-2103-ND◆	4.49	3.50	2.83	612-3232-130F
			Green	565	110.0	24.0	15.0	350-2104-ND◆	4.49	3.50	2.83	612-3232-140F
			Yellow	585	90.0	6.0	15.0	350-2105-ND◆	4.49	3.50	2.83	612-3332-120F
			Yellow	585	90.0	12.0	15.0	350-2106-ND◆	4.49	3.50	2.83	612-3332-130F
			Yellow	585	90.0	24.0	15.0	350-2107-ND◆	4.49	3.50	2.83	612-3332-140F
12	Dome	Black	Red	635	60.0	6.0	15.0	350-2108-ND◆	5.21	4.06	3.29	616-1132-120F
			Red	635	60.0	12.0	15.0	350-2109-ND◆	5.21	4.06	3.29	616-1132-130F
			Red	635	60.0	24.0	15.0	350-2110-ND◆	5.21	4.06	3.29	616-1132-140F
			Green	565	110.0	6.0	15.0	350-2111-ND◆	5.21	4.06	3.29	616-1232-120F
			Green	565	110.0	12.0	15.0	350-2112-ND◆	5.21	4.06	3.29	616-1232-130F
			Green	565	110.0	24.0	15.0	350-2113-ND◆	5.21	4.06	3.29	616-1232-140F
			Yellow	585	90.0	6.0	15.0	350-2114-ND◆	5.21	4.06	3.29	616-1332-120F
			Yellow	585	90.0	12.0	15.0	350-2115-ND◆	5.21	4.06	3.29	616-1332-130F
			Yellow	585	90.0	24.0	15.0	350-2116-ND◆	5.21	4.06	3.29	616-1332-140F
13	Dome	Poly-carbonate	Green	517	250.0	5.0	18.0	350-2240-ND◆ ***NEW!***	16.49	12.28	10.53	657-2602-303F
			Green	517	400.0	5.0	20.0	350-2241-ND◆ ***NEW!***	16.49	12.28	10.53	657-2602-103F
			Red	634	550.0	24.0	19.0	350-2242-ND◆ ***NEW!***	14.90	11.10	9.52	657-2504-303F
			Red	634	400.0	24.0	20.0	350-2243-ND◆ ***NEW!***	14.90	11.10	9.52	657-2504-103F
			Red	634	550.0	12.0	20.0	350-2244-ND◆ ***NEW!***	14.90	11.10	9.52	657-2503-303F
			Red	634	400.0	12.0	20.0	350-2245-ND◆ ***NEW!***	14.90	11.10	9.52	657-2503-103F
			Red	634	550.0	5.0	19.0	350-2246-ND◆ ***NEW!***	14.90	11.10	9.52	657-2502-303F
			Red	634	400.0	5.0	20.0	350-2247-ND◆ ***NEW!***	14.90	11.10	9.52	657-2502-103F
			White	—	100.0	24.0	20.0	350-2248-ND◆ ***NEW!***	16.49	12.28	10.53	657-2004-303F
			White	—	100.0	12.0	20.0	350-2249-ND◆ ***NEW!***	16.49	12.28	10.53	657-2003-303F
			White	—	100.0	5.0	20.0	350-2250-ND◆ ***NEW!***	16.49	12.28	10.53	657-2002-303F
			Green	517	400.0	12.0	20.0	350-2284-ND◆ ***NEW!***	16.49	12.28	10.53	657-2603-103F
			Green	517	250.0	12.0	20.0	350-2285-ND◆ ***NEW!***	16.49	12.28	10.53	657-2603-303F
			Green	517	400.0	24.0	20.0	350-2286-ND◆ ***NEW!***	16.49	12.28	10.53	657-2604-103F
			Green	517	250.0	24.0	20.0	350-2287-ND◆ ***NEW!***	16.49	12.28	10.53	657-2604-303F
			Yellow	594	400.0	5.0	20.0	350-2288-ND◆ ***NEW!***	14.90	11.10	9.52	657-2702-103F
			Yellow	594	500.0	5.0	19.0	350-2289-ND◆ ***NEW!***	14.90	11.10	9.52	657-2702-303F
			Yellow	594	400.0	12.0	20.0	350-2290-ND◆ ***NEW!***	14.90	11.10	9.52	657-2703-103F
			Yellow	594	500.0	12.0	20.0	350-2291-ND◆ ***NEW!***	14.90	11.10	9.52	657-2703-303F
			Yellow	594	400.0	24.0	20.0	350-2292-ND◆ ***NEW!***	14.90	11.10	9.52	657-2704-103F
			Yellow	594	500.0	24.0	19.0	350-2293-ND◆ ***NEW!***	14.90	11.10	9.52	657-2704-303F
			Blue	463	175.0	5.0	20.0	350-2294-ND◆ ***NEW!***	16.49	12.28	10.53	657-2802-103F
			Blue	463	100.0	5.0	18.0	350-2295-ND◆ ***NEW!***	16.49	12.28	10.53	657-2802-303F
			Blue	463	175.0	12.0	20.0	350-2296-ND◆ ***NEW!***	16.49	12.28	10.53	657-2803-103F
			Blue	463	100.0	12.0	20.0	350-2297-ND◆ ***NEW!***	16.49	12.28	10.53	657-2803-303F
			Blue	463	175.0	24.0	20.0	350-2298-ND◆ ***NEW!***	16.49	12.28	10.53	657-2804-103F
			Blue	463	100.0	24.0	20.0	350-2299-ND◆ ***NEW!***	16.49	12.28	10.53	657-2804-303F
			Orange	610	675.0	5.0	20.0	350-2300-ND◆ ***NEW!***	14.90	11.10	9.52	657-2902-103F
			Orange	610	600.0	5.0	19.0	350-2301-ND◆ ***NEW!***	14.90	11.10	9.52	657-2902-303F
			Orange	610	675.0	12.0	20.0	350-2302-ND◆ ***NEW!***	14.90	11.10	9.52	657-2903-103F
			Orange	610	600.0	12.0	20.0	350-2303-ND◆ ***NEW!***	14.90	11.10	9.52	657-2903-303F
			Orange	610	675.0	24.0	20.0	350-2304-ND◆ ***NEW!***	14.90	11.10	9.52	657-2904-103F
			Orange	610	600.0	24.0	19.0	350-2305-ND◆ ***NEW!***	14.90	11.10	9.52	657-2904-303F
14	Flat	Poly-carbonate	Orange	610	600.0	24.0	19.0	350-2251-ND◆ ***NEW!***	14.90	11.10	9.52	657-1904-303F
			Orange	610	475.0	24.0	20.0	350-2252-ND◆ ***NEW!***	14.90	11.10	9.52	657-1904-103F
			Orange	610	600.0	12.0	20.0	350-2253-ND◆ ***NEW!***	14.90	11.10	9.52	657-1903-303F
			Orange	610	475.0	12.0	20.0	350-2254-ND◆ ***NEW!***	14.90	11.10	9.52	657-1903-103F
			Orange	610	600.0	5.0	19.0	350-2255-ND◆ ***NEW!***	14.90	11.10	9.52	657-1902-303F
			Orange	610	475.0	5.0	20.0	350-2256-ND◆ ***NEW!***	14.90	11.10	9.52	657-1902-103F
			Blue	463	100.0	24.0	20.0	350-2257-ND◆ ***NEW!***	16.49	12.28	10.53	657-1804-303F
			Blue	463	125.0	24.0	20.0	350-2258-ND◆ ***NEW!***	16.49	12.28	10.53	657-1804-103F
			Blue	463	100.0	12.0	20.0	350-2259-ND◆ ***NEW!***	16.49	12.28	10.53	657-1803-303F
			Blue	463	125.0	12.0	20.0	350-2260-ND◆ ***NEW!***	16.49	12.28	10.53	657-1803-103F
			Blue	463	125.0	5.0	20.0	350-2283-ND◆ ***NEW!***	16.49	12.28	10.53	657-1802-103F
			Blue	463	100.0	5.0	18.0	350-2261-ND◆ ***NEW!***	16.49	12.28	10.53	657-1802-303F
			White	—	100.0	5.0	20.0	350-2262-ND◆ ***NEW!***	16.49	12.28	10.53	657-1002-303F
			White	—	100.0	12.0	20.0	350-2263-ND◆ ***NEW!***	16.49	12.28	10.53	657-1003-303F
			White	—	100.0	24.0	20.0	350-2264-ND◆ ***NEW!***	16.49	12.28	10.53	657-1004-303F
			Red	634	350.0	5.0	20.0	350-2265-ND◆ ***NEW!***	14.90	11.10	9.52	657-1502-103F
			Red	634	550.0	5.0	19.0	350-2266-ND◆ ***NEW!***	14.90	11.10	9.52	657-1502-303F
			Red	634	350.0	5.0	20.0	350-2267-ND◆ ***NEW!***	14.90	11.10	9.52	657-1503-103F
			Red	634	550.0	12.0	20.0	350-2268-ND◆ ***NEW!***	14.90	11.10	9.52	657-1503-303F
			Red	634	350.0	24.0	20.0	350-2269-ND◆ ***NEW!***	14.90	11.10	9.52	657-1504-103F
			Red	634	550.0	24.0	19.0	350-2270-ND◆ ***NEW!***	14.90	11.10	9.52	657-1504-303F
			Green	517	350.0	5.0	20.0	350-2271-ND◆ ***NEW!***	16.49	12.28	10.53	657-1602-103F
			Green	517	250.0	5.0	18.0	350-2272-ND◆ ***NEW!***	16.49	12.28	10.53	657-1602-303F
			Green	517	350.0	12.0	20.0	350-2273-ND◆ ***NEW!***	16.49	12.28	10.53	657-1603-103F
			Green	517	250.0	12.0	20.0	350-2274-ND◆ ***NEW!***	16.49	12.28	10.53	657-1603-303F
			Green	517	350.0	24.0	20.0	350-2275-ND◆ ***NEW!***	16.49	12.28	10.53	657-1604-103F
			Green	517	250.0	24.0	20.0	350-2276-ND◆ ***NEW!***	16.49	12.28	10.53	657-1604-303F
			Yellow	594	350.0	12.0	20.0	350-2282-ND◆ ***NEW!***	14.90	11.10	9.52	657-1703-103F
			Yellow	594	500.0	12.0	20.0	350-2277-ND◆ ***NEW!***	14.90	11.10	9.52	657-1703-303F
			Yellow	594	350.0	24.0	20.0	350-2278-ND◆ ***NEW!***	14.90	11.10	9.52	657-1704-103F
			Yellow	594	500.0	24.0	19.0	350-2279-ND◆ ***NEW!***	14.90	11.10	9.52	657-1704-303F
			Yellow	594	350.0	5.0	20.0	350-2280-ND◆ ***NEW!***	14.90	11.10	9.52	657-1702-103F
			Yellow	594	500.0	5.0	19.0	350-2281-ND◆ ***NEW!***	14.90	11.10	9.52	657-1702-303F
15	Right Angle	—	Cool White	—	2,000‡	12.0 ~ 32.0	24.0	350-2313-ND◆ ***NEW!***	18.21	13.57	11.63	657-3009-213F

◆ ***RoHS Compliant*** ‡ Typical Intensity (mcd)

Fig. 8

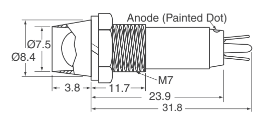

Fig. 9

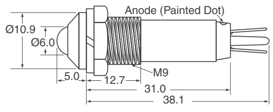

Fig. 10

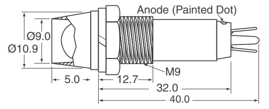

Fig. 11

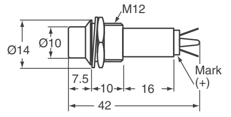

Fig. 12

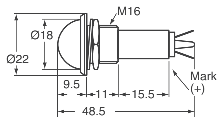

Fig. 13 *NEW!*

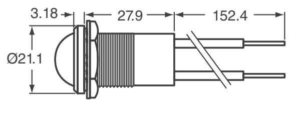

Fig. 14 *NEW!*

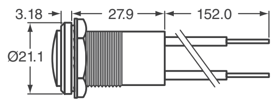

Fig. 15 *NEW!*

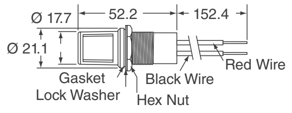

Dialight

Dimensions in mm

Single Chip BASED LEDs

RoHS COMPLIANT

Fig. 1

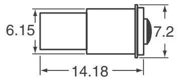

Fig. 2

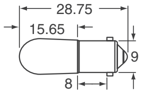

Fig.	Lens	Housing	Color	Wavelength Peak (nm)	Intensity Typical (mcd)	Voltage (VDC)	Current Typical (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
1	Flat	Chrome Plated	Red	639	775	14	10	350-2136-ND	3.82	2.98	2.41	586-1101-103F
	Flat	Chrome Plated	Red	639	775	28	10	350-2137-ND	3.82	2.98	2.41	586-1101-105F
	Flat	Chrome Plated	Green	520	600	14	10	350-2138-ND	6.09	4.74	3.84	586-1102-103F
	Flat	Chrome Plated	Green	520	600	28	10	350-2139-ND	6.09	4.74	3.84	586-1102-105F
	Flat	Chrome Plated	Yellow	592	775	14	10	350-2140-ND	3.82	2.98	2.41	586-1103-103F
	Flat	Chrome Plated	Yellow	592	775	28	10	350-2141-ND	3.82	2.98	2.41	586-1103-105F
	Flat	Chrome Plated	Blue	467	210	28	10	350-2143-ND	6.09	4.74	3.84	586-1105-105F
	Flat	Chrome Plated	White	—	460	14	10	350-2144-ND	4.95	3.86	3.12	586-1106-103F
	Flat	Chrome Plated	White	—	460	28	10	350-2145-ND	6.09	4.74	3.84	586-1106-105F
2	Dome	Chrome Plated	Red	630	1050	6	15	350-2146-ND	4.95	3.86	3.12	586-2401-201F
	Dome	Chrome Plated	Red	630	1050	14	15	350-2147-ND	4.95	3.86	3.12	586-2401-203F
	Dome	Chrome Plated	Red	630	525	28	7.5	350-2148-ND	4.95	3.86	3.12	586-2401-205F
	Dome	Chrome Plated	Green	525	1650	6	15	350-2149-ND	7.34	5.58	4.70	586-2402-201F
	Dome	Chrome Plated	Green	525	1650	14	15	350-2150-ND	7.34	5.58	4.70	586-2402-203F
	Dome	Chrome Plated	Green	525	825	28	7.5	350-2151-ND	7.34	5.58	4.70	586-2402-205F
	Dome	Chrome Plated	Yellow	592	1275	6	15	350-2152-ND	4.95	3.86	3.12	586-2403-201F
	Dome	Chrome Plated	Yellow	592	1275	14	15	350-2153-ND	4.95	3.86	3.12	586-2403-203F
	Dome	Chrome Plated	Yellow	592	637	28	7.5	350-2154-ND	4.95	3.86	3.12	586-2403-205F
	Dome	Chrome Plated	Blue	470	487	6	15	350-2155-ND	7.92	6.02	5.07	586-2405-201F
	Dome	Chrome Plated	Blue	470	487	14	15	350-2156-ND	7.34	5.58	4.70	586-2405-203F
	Dome	Chrome Plated	Blue	470	243	28	7.5	350-2157-ND	7.34	5.58	4.70	586-2405-205F
	Dome	Chrome Plated	White	—	825	6	15	350-2158-ND	7.34	5.58	4.70	586-2406-201F
	Dome	Chrome Plated	White	—	825	14	15	350-2159-ND	7.34	5.58	4.70	586-2406-203F
	Dome	Chrome Plated	White	—	412	28	7.5	350-2160-ND	7.34	5.58	4.70	586-2406-205F

Optical Light Pipes

RoHS COMPLIANT

Fig. 1

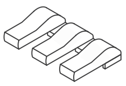

Fig. 2

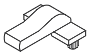

Fig. 3

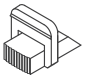

Fig. 4

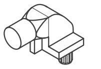

Fig. 5

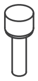

Fig. 6

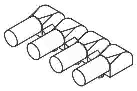

Fig. 7

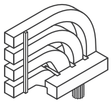

Fig. 8

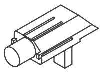

Fig. 9

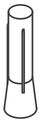

Fig. 10

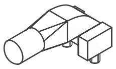

Fig. 11

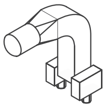

Fig. 12

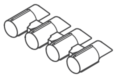

Fig. 13

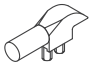

Fig. 14

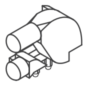

Fig. 15

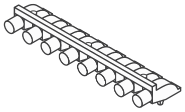

Fig. 16

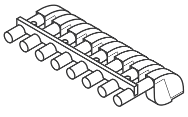

Fig. 17

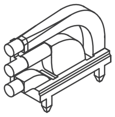

Fig. 18

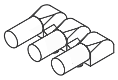

Fig. 19

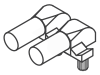

Fig. 20

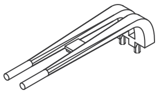

Fig. 21

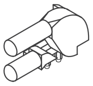

Fig. 22

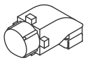

Fig.	No. of Ports	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
1	3	350-2161-ND	.92	.72	.62	515-1000F
2	1	350-2162-ND	.69	.54	.47	515-1001F
3	1	350-2163-ND	.52	.41	.35	515-1004F
4	1	350-2164-ND	.59	.47	.40	515-1011F
5	1	350-2165-ND	.37	.29	.25	515-1016F
6	4	350-2166-ND	1.13	.88	.76	515-1020F
6	4	350-2174-ND	1.38	1.08	.93	515-1048F
7	4	350-2168-ND	1.44	1.12	.96	515-1023F
8	1	350-2169-ND	.70	.55	.47	515-1024F
9	1	350-2170-ND	.37	.29	.25	515-1027F
10	1	350-2171-ND	.54	.43	.37	515-1038F
11	1	350-2172-ND	.59	.47	.40	515-1039F
12	4	350-2173-ND	.81	.64	.55	515-1040F

Fig.	No. of Ports	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
13	1	350-2175-ND	.87	.68	.58	515-1049F
14	2	350-2178-ND	.52	.41	.35	515-1061F
15	8	350-2179-ND	1.73	1.35	1.16	515-1062F
16	8	350-2180-ND	1.33	1.04	.89	515-1063F
17	3	350-2181-ND	.99	.77	.66	515-1064F
18	3	350-2182-ND	.99	.77	.66	515-1069F
19	2	350-1590-ND	1.32	1.02	.82	515-1071F
20	2	350-2184-ND	1.24	.97	.83	515-1090-801F
20	2	350-2185-ND	1.24	.97	.83	515-1090F
20	2	350-2189-ND	1.24	.97	.83	515-1118F
21	2	350-2186-ND	.59	.47	.40	515-1094F
22	1	350-2187-ND	2.35	1.83	1.57	515-1096F

High Brightness LEDs

Dimensions in mm

Fig. 1

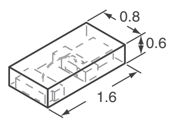

Fig. 2

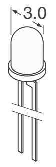

Fig. 3

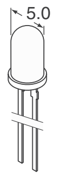

Fig. 4

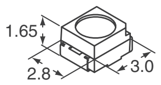

Fig. 5

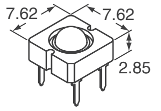

Fig. 6 ***NEW!***

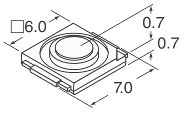

Fig.	Type	Color	Peak Wavelength (nm)	DC Forward Current If (mA)	Forward Voltage Vf (V) (Typ.)	Viewing Angle (°)	Luminous Intensity (Typ.) (mcd) @ If (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Vishay Part No.
1	0603	Blue	428	10	3.9	160	5	751-1156-1-ND†	1.13	10.07	80.00	TLMB1100-GS08
	0603	Blue	428	10	3.9	160	5	751-1156-2-ND‡		1245.00/3,000		TLMB1100-GS08
	0603	Green	572	20	2.1	160	35	751-1165-1-ND†	.50	3.94	26.95	TLMG1100-GS08
	0603	Green	572	20	2.1	160	35	751-1165-2-ND‡		342.00/3,000		TLMG1100-GS08
	0603	Orange	610	20	2.1	160	80	751-1174-1-ND†	.50	3.94	26.95	TLMO1100-GS08
	0603	Orange	610	20	2.1	160	80	751-1174-2-ND‡		342.00/3,000		TLMO1100-GS08
	0603	Pure Green	555	20	2.1	160	15	751-1176-1-ND†	.60	4.68	32.02	TLMP1100-GS08
	0603	Pure Green	555	20	2.1	160	15	751-1176-2-ND‡		405.00/3,000		TLMP1100-GS08
	0603	Red	645	20	2.1	160	63	751-1182-1-ND†	.50	3.94	26.95	TLMS1100-GS08
	0603	Red	645	20	2.1	160	63	751-1182-2-ND‡		342.00/3,000		TLMS1100-GS08
	0603	Yellow	591	20	2.1	160	80	751-1186-1-ND†	.50	3.94	26.95	TLMY1100-GS08
	0603	Yellow	591	20	2.1	160	80	751-1186-2-ND‡		342.00/3,000		TLMY1100-GS08
2	3mm Lamp	Red	650	20	1.8	32	200	751-1089-ND	.50	4.21	31.56	TLDR4900
	3mm Lamp	Red	650	20	1.8	32	63 ~ 200	751-1090-ND	.53	4.50	33.78	TLDR4901
	3mm Lamp	Blue	428	20	3.9	60	15	751-1092-ND	.99	8.63	66.61	TLHB4400
	3mm Lamp	Soft Orange	610	10	1.9	32	300	751-1097-ND	.54	4.27	29.33	TLHF4900
	3mm Lamp	Green	565	10	2.4	60	4	751-1099-ND	.47	3.34	21.91	TLHG4400
	3mm Lamp	Green	565	10	2.4	60	12	751-1101-ND	.47	3.34	21.91	TLHG4405
	3mm Lamp	Green	565	10	2.4	120	2	751-1102-ND	.47	3.34	21.91	TLHG4600
	3mm Lamp	Green	565	10	2.4	120	6	751-1104-ND	.55	3.93	23.16	TLHG4605
	3mm Lamp	Soft Orange	605	10	2.4	60	4	751-1120-ND	.52	3.66	24.02	TLHO4400
	3mm Lamp	Red	635	10	2	60	3	751-1127-ND	.55	3.96	23.32	TLHR4400
	3mm Lamp	Red	635	10	2	60	5	751-1128-ND	.43	3.02	19.80	TLHR4401
	3mm Lamp	Red	635	10	2	60	10	751-1129-ND	.43	3.02	19.80	TLHR4405
	3mm Lamp	Red	635	10	2.0	120	2	751-1130-ND	.56	4.01	23.64	TLHR4600
	3mm Lamp	Red	635	10	2.0	120	6	751-1132-ND	.47	3.31	21.74	TLHR4605
	3mm Lamp	Yellow	585	10	2.4	60	3	751-1142-ND	.49	3.43	22.53	TLHY4400
	3mm Lamp	Yellow	585	10	2.4	60	10	751-1144-ND	.49	3.46	22.70	TLHY4405
	3mm Lamp	Yellow	585	10	2.4	120	5	751-1147-ND	.53	3.73	24.51	TLHY4605
3	5mm Lamp	Red	650	20	1.8	8	2500	751-1091-ND	.43	3.61	27.06	TLDR5800
	5mm Lamp	Yellow	590	20	2.0	18	750	751-1095-ND	.50	3.95	27.13	TLHE5100
	5mm Lamp	Yellow	590	20	2.0	8	3500	751-1096-ND	.48	3.75	25.76	TLHE5800
	5mm Lamp	Green	565	20	2.4	18	240	751-1105-ND	.44	3.08	20.20	TLHG5100
	5mm Lamp	Green	565	10	2.4	28	30	751-1108-ND	.51	3.65	21.47	TLHG5200
	5mm Lamp	Green	565	10	2.4	28	40	751-1109-ND	.53	3.78	22.26	TLHG5201
	5mm Lamp	Green	565	10	2.4	28	50	751-1110-ND	.56	4.04	23.80	TLHG5205
	5mm Lamp	Green	565	10	2.4	60	4	751-1114-ND	.52	3.75	22.10	TLHG6400
	5mm Lamp	Green	565	10	2.4	60	15	751-1116-ND	.44	3.09	20.28	TLHG6405
	5mm Lamp	Red	643	20	1.9	18	320	751-1118-ND	.43	3.38	23.21	TLHK5100
	5mm Lamp	Red	643	20	1.9	8	2500	751-1119-ND	.43	3.38	23.21	TLHK5800
	5mm Lamp	Red	635	10	2.0	28	20	751-1133-ND	.42	2.99	17.60	TLHR5200
	5mm Lamp	Red	635	10	2.0	28	30	751-1134-ND	.43	3.10	18.23	TLHR5201
	5mm Lamp	Red	635	10	2.0	28	40	751-1135-ND	.46	3.30	19.45	TLHR5205
	5mm Lamp	Red	635	10	2.0	28	40	751-1138-ND	.53	3.83	22.53	TLHR6205
	5mm Lamp	Red	635	10	2.0	60	3.5	751-1139-ND	.51	3.65	21.47	TLHR6400
	5mm Lamp	Red	635	10	2.0	60	7	751-1140-ND	.52	3.73	21.94	TLHR6401
	5mm Lamp	Red	635	10	2.0	60	10	751-1141-ND	.52	3.73	21.94	TLHR6405
	5mm Lamp	Yellow	585	10	2.4	28	30	751-1148-ND	.48	3.37	22.13	TLHY5200
	5mm Lamp	Yellow	585	10	2.4	60	3.5	751-1153-ND	.48	3.37	22.13	TLHY6400
	5mm Lamp	Yellow	585	10	2.4	60	7	751-1154-ND	.49	3.48	22.88	TLHY6401
	5mm Lamp	Yellow	585	10	2.4	60	10	751-1155-ND	.53	3.73	24.51	TLHY6405
4	PLCC-2	Blue	464	20	3	120	100	751-1239-1-ND†	.99	8.55	67.50	VLMB3140-GS08
	PLCC-2	Blue	464	20	3	120	100	751-1239-2-ND‡		540.00/1,500		VLMB3140-GS08
	PLCC-2	White	—	10	3.3	120	112 ~ 355	751-1246-1-ND†	.79	6.79	53.59	VLMW41R1T1-5K8L-08
	PLCC-2	Blue	428	20	3.9	120	5.6 ~ 18	751-1460-1-ND†	.95	8.50	67.50	VLMB31J2L2-GS08
	PLCC-2	Blue	428	20	3.9	120	5.6 ~ 18	751-1460-2-ND‡		562.50/1,500		VLMB31J2L2-GS08
	PLCC-2	Red	650	30	1.8	120	11.2 Minimum	751-1461-1-ND†	.47	3.71	25.35	VLMD3100-GS08
	PLCC-2	Red	650	30	1.8	120	11.2 Minimum	751-1461-2-ND‡		175.50/1,500		VLMD3100-GS08
	PLCC-2	Green	565	30	2.2	120	16	751-1462-1-ND†	.53	3.75	25.00	VLMG3100-GS08
	PLCC-2	Green	565	30	2.2	120	16	751-1462-2-ND‡		150.00/1,500		VLMG3100-GS08
	PLCC-2	Green	565	30	2.2	120	11.2 ~ 18	751-1463-1-ND†	.56	3.94	26.25	VLMG3102-GS08
	PLCC-2	Green	565	30	2.2	120	11.2 ~ 18	751-1463-2-ND‡		157.50/1,500		VLMG3102-GS08
	PLCC-2	Red	635	30	2	120	10	751-1464-1-ND†	.56	3.94	26.25	VLMH3100-GS08

† Cut Tape ‡ Tape and Reel

(Continued)

VISHAY Semiconductor High Brightness LEDs *(Cont.)*

Fig.	Type	Color	Peak Wavelength (nm)	DC Forward Current If (mA)	Forward Voltage Vf (V) (Typ.)	Viewing Angle (°)	Luminous Intensity (Typ.) (mcd) @ If (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Vishay Part No.
4	PLCC-2	Red	635	30	2	120	10	751-1464-2-ND‡		157.50/1,500		VLMH3100-GS08
	PLCC-2	Red	635	30	2	120	4.5 ~ 11.2	751-1465-1-ND†	.58	4.13	27.50	VLMH3101-GS08
	PLCC-2	Red	635	30	2	120	4.5 ~ 11.2	751-1465-2-ND‡		165.00/1,500		VLMH3101-GS08
	PLCC-2	Red	635	30	2	120	7.1 ~ 18	751-1466-1-ND†	.58	4.09	27.25	VLMH3102-GS08
	PLCC-2	Red	635	30	2	120	7.1 ~ 18	751-1466-2-ND‡		163.50/1,500		VLMH3102-GS08
	PLCC-2	Red	643	30	1.9	120	50	751-1467-1-ND†	.61	4.31	28.75	VLMK3100-GS08
	PLCC-2	Red	643	30	1.9	120	50	751-1467-2-ND‡		172.50/1,500		VLMK3100-GS08
	PLCC-2	Pure Green	555	30	2.1	120	4	751-1468-1-ND†	.56	4.42	30.23	VLMP3100-GS08
	PLCC-2	Pure Green	555	30	2.1	120	4	751-1468-2-ND‡		210.00/1,500		VLMP3100-GS08
	PLCC-2	Pure Green	555	30	2.1	120	1.8 ~4.5	751-1469-1-ND†	.58	4.56	31.20	VLMP3101-GS08
	PLCC-2	Pure Green	555	30	2.1	120	1.8 ~4.5	751-1469-2-ND‡		216.00/1,500		VLMP3101-GS08
	PLCC-2	Pure Green	555	30	2.1	120	2.8 ~ 7.1	751-1470-1-ND†	.47	3.68	25.16	VLMP3102-GS08
	PLCC-2	Pure Green	555	30	2.1	120	2.8 ~ 7.1	751-1470-2-ND‡		174.00/1,500		VLMP3102-GS08
	PLCC-2	Pure Green	555	30	2.1	120	2.8 ~ 5.6	751-1471-1-ND†	.58	4.56	31.20	VLMP3107-GS08
	PLCC-2	Pure Green	555	30	2.1	120	2.8 ~ 5.6	751-1471-2-ND‡		216.00/1,500		VLMP3107-GS08
	PLCC-2	Red	640	30	2.0	120	7.1	751-1472-1-ND†	.56	3.94	26.25	VLMS3100-GS08
	PLCC-2	Red	640	30	2.0	120	7.1	751-1472-2-ND‡		157.50/1,500		VLMS3100-GS08
	PLCC-2	Yellow	585	30	2.1	120	10	751-1473-1-ND†	.52	3.68	24.50	VLMY3100-GS08
	PLCC-2	Yellow	585	30	2.1	120	10	751-1473-2-ND‡		147.00/1,500		VLMY3100-GS08
	PLCC-2	Yellow	585	30	2.1	120	7.1 ~ 18	751-1474-1-ND†	.58	4.13	27.50	VLMY3102-GS08
	PLCC-2	Yellow	585	30	2.1	120	7.1 ~ 18	751-1474-2-ND‡		165.00/1,500		VLMY3102-GS08
5	TELUX™ 4-pin	Red	624	70	2.2	60	0.7	751-1190-5-ND	.55	4.67	35.04	TLWR7600
	TELUX 4-pin	Red	624	70	2.2	90	0.7	751-1191-5-ND	.55	4.67	35.04	TLWR7900
	TELUX 4-pin	Red	624	70	2.2	60	0.8	751-1192-5-ND	.66	5.52	41.43	TLWR8600
	TELUX 4-pin	Red	624	70	2.2	90	0.7	751-1193-5-ND	.66	5.52	41.43	TLWR8900
	TELUX 4-pin	Red	624	70	2.2	60	0.8	751-1194-5-ND	.88	7.69	59.35	TLWR9600
	TELUX 4-pin	Red	624	70	2.2	90	0.7	751-1195-5-ND	.74	6.52	50.27	TLWR9900
	TELUX 4-pin	Yellow	594	70	2.1	60	0.7	751-1196-5-ND	.56	4.72	35.37	TLWY7600
	TELUX 4-pin	Yellow	594	70	2.1	90	0.7	751-1197-5-ND	.56	4.72	35.37	TLWY7900
	TELUX 4-pin	Yellow	594	70	2.1	60	0.8	751-1198-5-ND	.66	5.52	41.43	TLWY8600
	TELUX 4-pin	Yellow	594	70	2.1	90	0.7	751-1199-5-ND	.66	5.52	41.43	TLWY8900
	TELUX 4-pin	True Green	518	50	3.9	60	0.7	751-1248-5-ND	1.03	9.15	72.28	VLWTG9600
	TELUX 4-pin	True Green	518	50	3.9	90	0.7	751-1249-5-ND	1.03	9.15	72.28	VLWTG9900
	TELUX 4-pin	White	—	50	4.3	60	0.8	751-1250-5-ND	1.05	9.30	73.50	VLWW9600
	TELUX 4-pin	White	—	50	4.3	90	0.8	751-1252-5-ND	1.03	9.15	72.28	VLWW9900
6	Little Star®	White	—	350	3.5	120	25,000	751-1477-1-ND† ***NEW!***	4.50	40.50	330.00	VLMW711T3U2US-GS08
	Little Star	White	—	350	3.5	120	25,000	751-1477-2-ND‡ ***NEW!***		3990.00/2,000		VLMW711T3U2US-GS08
	Little Star	White	—	350	3.5	120	29,700	751-1478-1-ND† ***NEW!***	4.56	41.04	334.40	VLMW711U2U3XV-GS08
	Little Star	White	—	350	3.5	120	29,700	751-1478-2-ND‡ ***NEW!***		4044.00/2,000		VLMW711U2U3XV-GS08
	Little Star	White	—	350	3.6	120	19,000	751-1488-1-ND† ***NEW!***	4.80	43.20	352.00	VLMW71S2S3QN-GS08
	Little Star	White	—	350	3.6	120	19,000	751-1488-2-ND‡ ***NEW!***		4256.00/2,000		VLMW71S2S3QN-GS08

† Cut Tape ‡ Tape and Reel

Remote Control Receivers

Fig.	Supply Voltage (V)	Sensitivity Ee (mw/m2)	Carrier Frequency (kHz)	Transmit Distance Typ. (m)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Vishay Part No.
1	2.7 ~ 5.5	0.2 ~ 0.35	38	35	751-1223-5-ND	1.68	14.86	117.45	TSOP32238
2	2.7 ~ 5.5	0.4 ~ 0.55	38	30	751-1227-ND	.91	8.06	63.70	TSOP38238

Fig. 1

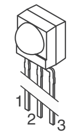

Fig. 2

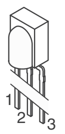

molex NEW! Helieon™ Sustainable Light Modules

Helieon Sustainable Light Module combines industry leading solid state lighting technology with innovative, easy-to-use interconnect technology delivering to interior and exterior luminaire manufacturers effortless installation, interchangeability and upgradeability. Helieon is one of the industry's highest quality, most cost effective solid state lighting solutions, and it will change the way LED lightning solutions are used. Helieon also helps lighting manufacturers reduce energy costs and environmental waster for a sustainably designed lighting environment. Helieon Sustainable Light Module has an average lumen maintenance of 50,000 hours. 10 year lifespan based on 12 hours of use per day/365 days per year.

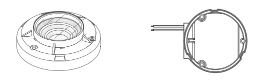

Color	Viewing Angle	Color Temperature (K)	Performance @ 1400mA Voltage (V)	Luminous Flux (lm)	Wattage (W)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
Warm White	24°	3000	12.3	860	17.2	WM24092-ND	34.95	33.79	31.46	180081-2220
	32°	3000	12.3	860	17.2	WM9160-ND	34.95	33.79	31.46	180081-2230
	50°	3000	12.3	860	17.2	WM24093-ND	34.95	33.79	31.46	180081-2250
	24°	3000	18.5	1330	25.8	WM24094-ND	40.81	39.36	37.17	180081-2320
	32°	3000	18.5	1330	25.8	WM9161-ND	40.81	39.36	37.17	180081-2330
	50°	3000	18.5	1330	25.8	WM24095-ND	40.81	39.36	37.17	180081-2350
Neutral	24°	4100	12.3	1020	17.2	WM24096-ND	34.95	33.79	31.46	180081-4220
	32°	4100	12.3	1020	17.2	WM9162-ND	34.95	33.79	31.46	180081-4230
	50°	4100	12.3	1020	17.2	WM24097-ND	34.95	33.79	31.46	180081-4250
	24°	4100	18.5	1530	25.8	WM24098-ND	40.81	39.36	37.17	180081-4320
	32°	4100	18.5	1530	25.8	WM9163-ND	40.81	39.36	37.17	180081-4330
	50°	4100	18.5	1530	25.8	WM24099-ND	40.81	39.36	37.17	180081-4350
Socket										
Socket Assembly for Helieon 80mm						WM24100-ND	5.66	4.68	3.90	180080-0000

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LED 7-Segment Displays

Fig. 1

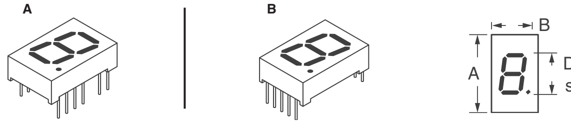

Fig. 2

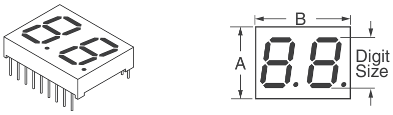

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions mm A x B	Forward Voltage Typ. @ If		Iv (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100	Stanley Part No. Common Anode	Stanley Part No. Common Cathode
1A	Red	.30 (7.5)	11.0 x 7.0	1.7	10	2800	404-1118-ND	404-1119-ND	1.88	1.18	1.06	NAR131SB	NKR131SB
	Red	.40 (10)	13.0 x 9.6	1.7	10	6400	—	404-1120-ND	1.84	1.15	1.04	—	NKR141SC
	Red	.40 (10)	19.0 x 12.5	1.7	20	8000	404-1121-ND	404-1122-ND	2.45	1.61	1.40	NAR141B	NKR141B
1B	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1124-ND	404-1125-ND	2.00	1.32	1.15	NAR161B	NKR161B
	Red	1.00 (25)	33.0 x 22.8	3.4	20	20000	404-1126-ND	404-1127-ND	5.52	3.87	3.32	NAR105B	NKR105B
	Green	1.00 (25)	33.0 x 22.8	4.4	20	8000	404-1128-ND	404-1129-ND	5.49	3.85	3.30	NAG105PB	NKG105PB
2	Red/Green	1.00 (25)	33.0 x 22.8	3.4/4.0	10/10	4000	404-1134-ND	—	7.82	5.61	4.72	NARG105	—
	Red	.60 (15)	19.0 x 25.2	1.7	20	12000	404-1130-ND	404-1131-ND	3.42	2.40	2.06	NAR261B	NKR261B

Super Bright LED Light Bar Module

Fig. 1

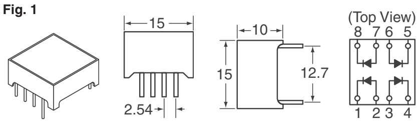

Fig. 2

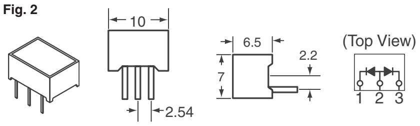

Fig. 3

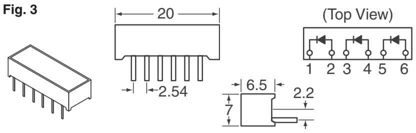

Fig. 4

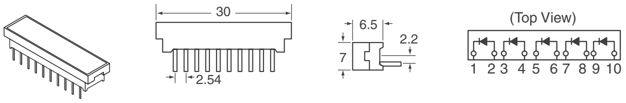

Fig. 5

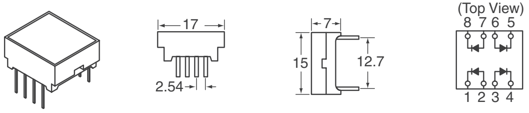

Fig.	Emitted Color	Wavelength λpk Typ. (nm)	Forward Voltage Typ. @ If		Iv (mcd)	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	Yellow	570	2.1	20	42	404-1139-ND	1.54	.97	.87	MU02-4201
2	Red	660	1.7	20	20	404-1141-ND	1.00	.65	.56	MU03-2201
3	Red	660	1.7	20	32	404-1145-ND	1.29	.81	.73	MU04-2101
	Yellow	570	2.1	20	32	404-1146-ND	1.27	.80	.72	MU04-4101
	Green	560	2.1	20	20	404-1147-ND	1.28	.80	.72	MU04-5102
4	Red	660	1.7	20	40	404-1148-ND	1.72	1.08	.97	MU07-2101
	Yellow	570	2.1	20	40	404-1150-ND	1.73	1.09	.98	MU07-4101
5	Red	660	1.7	20	40	404-1152-ND	1.56	.98	.88	MU08-2201
	Yellow	570	2.2	20	40	404-1153-ND	1.60	1.00	.90	MU08-4201
	Pure Green	560	2.2	20	20	404-1154-ND	1.77	1.11	1.00	MU08-5201

LED Arrays

Fig. 1

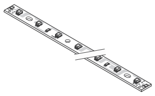

Fig. 2

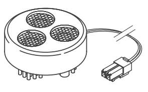

Fig. 3

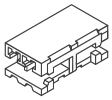

Fig. 4

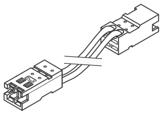

Fig. 5

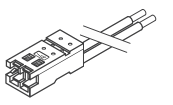

Fig.	Emitted Color	Viewing Angle	Color Temperature (K)	Forward Voltage (V)	Description	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	Cool White	—	6,300	12.6	Slim Stick	404-1182-ND	48.54	37.34	35.47	STN0101N
	Warm White	—	3,300	12.6	Slim Stick	404-1183-ND	48.54	37.34	35.47	STW0101N
	Cool White	—	6,300	12.6	Slim Stick	404-1184-ND	36.98	28.56	24.94	STN0201N
	Warm White	—	3,300	12.6	Slim Stick	404-1185-ND	36.31	28.04	24.50	STW0201N
2	White	30°	5,000	10.0	Triple 1W type	404-1189-ND	55.81	45.45	43.85	TRN1331S-001
	White	60°	5,000	10.0	Triple 1W type	404-1190-ND	55.81	45.45	43.85	TRN1361S-001
	Warm White	30°	3,300	10.0	Triple 1W type	404-1191-ND	55.81	45.45	43.85	TRW1331S-001
	Warm White	60°	3,300	10.0	Triple 1W type	404-1192-ND	55.81	45.45	43.85	TRW1361S-001
	Pure White	30°	4,200	11.0	Triple 1.1W type	404-1193-ND	55.81	45.45	43.85	TRP1331S-501
	Pure White	60°	4,200	11.0	Triple 1.1W type	404-1194-ND	55.81	45.45	43.85	TRP1361S-501
	Cool White	30°	6,300	11.0	Triple 1.1W type	404-1195-ND	55.81	45.45	43.85	TRC1331S-501
	Cool White	60°	6,300	11.0	Triple 1.1W type	404-1196-ND	55.81	45.45	43.85	TRC1361S-501
					Accessories					
3	Module Block for Slim Stick					404-1186-ND	3.48	2.44	2.09	STCB1
4	Module Coupler with single cable for Slim Stick					404-1188-ND	6.27	4.39	3.77	STCC2
5	Module Coupler with double cable for Slim Stick					404-1187-ND	4.17	2.92	2.51	STCC1

Surface Mount LEDs

Fig. 1 — 0603 Ultra Compact

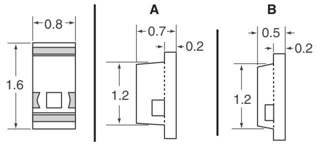

Fig. 2 — 0805 Thin Type

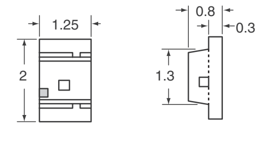

Fig. 3 — 1206 Standard and Reverse Mount Dome Lens

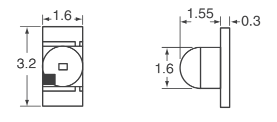

Fig. 4 — 1206 Standard Flat Lens

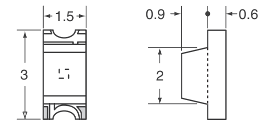

Fig. 5 — 1206 Standard Inner Lens

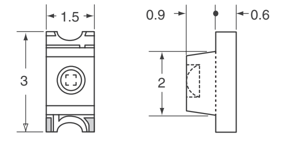

Fig. 6 — 1206 Reverse Mount

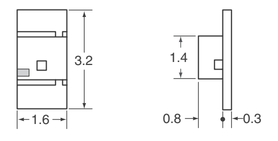

Fig. 7 — Right Angle SMT LED

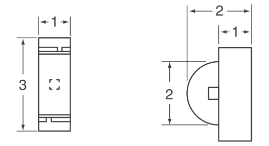

Fig. 8 — Right Angle SMT LED

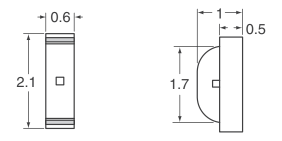

Fig. 9 — 1210 Bi-Color Standard Flat Lens Type SMT LED

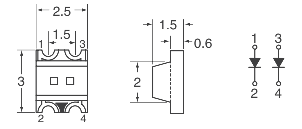

Fig. 10 — 1210 Bi-Color Two Inner Lens Type SMT LED

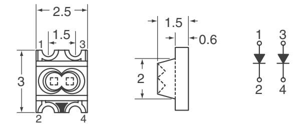

Fig. 11 — Bi-Color Ultra Compact SMT LED

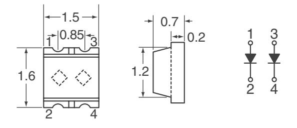

Fig. 12 — Bi-Color Right Angle SMT LED

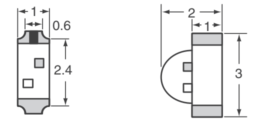

Fig. 13 — Low Profile

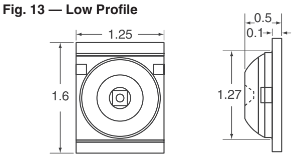

Fig. 14 — 3.2 x 2.8 Flat Lens

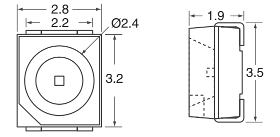

Fig. 15 — PLCC-2 SMT

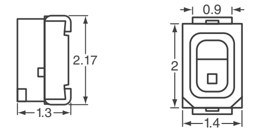

Fig. 16 — Right Angle SMT LED

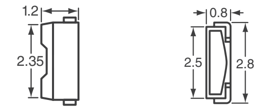

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP @ mA		Iv – Typ (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Stanley Part No.
									1	25	100		Qty.	Pricing	
0603 Ultra Compact															
1A	Red	Milky White	660	1.7	20	11.7	140°	404-1000-1-ND	.44	6.09	18.44	404-1000-2-ND	4,000	70.00/M	BR1111C-TR
	Orange	Milky White	605	2.2	20	3.4	150°	404-1001-1-ND	.38	5.36	16.22	404-1001-2-ND	4,000	61.00/M	AA1111C-TR
	Yellow	Milky White	580	2.2	20	3.4	150°	404-1002-1-ND	.53	7.01	20.65	404-1002-2-ND	4,000	69.00/M	AY1111C-TR
	Yellow-Green	Milky White	570	2.1	20	11.7	150°	404-1003-1-ND	.50	6.56	19.32	404-1003-2-ND	4,000	65.00/M	PY1111C-TR
	Green	Milky White	560	2.1	20	6.4	150°	404-1004-1-ND	.50	6.56	19.32	404-1004-2-ND	4,000	65.00/M	PG1111C-TR
	Pure Green	Milky White	555	2.1	20	2.4	150°	404-1005-1-ND	.43	5.95	18.02	404-1005-2-ND	4,000	68.00/M	BG1111C-TR
	Red	Milky White	635	1.9	20	50	140°	404-1006-1-ND	.55	8.02	25.65	404-1006-2-ND	4,000	105.00/M	FR1111C-TR
	Orange	Milky White	609	1.9	20	65	140°	404-1007-1-ND	.55	8.03	25.70	404-1007-2-ND	4,000	105.00/M	FA1111C-TR
	Yellow	Milky White	590	1.9	20	65	140°	404-1008-1-ND	.55	8.02	25.65	404-1008-2-ND	4,000	105.00/M	FY1111C-TR
1B	Red	Milky White	635	1.9	20	45	130°	404-1012-1-ND	.48	7.52	23.94	404-1012-2-ND	4,000	113.00/M	FR1112C-TR
	Orange	Milky White	609	1.9	20	50	130°	404-1013-1-ND	.48	7.52	23.94	404-1013-2-ND	4,000	113.00/M	FA1112C-TR
	Yellow	Milky White	590	1.9	20	50	130°	404-1014-1-ND	.48	7.52	23.94	404-1014-2-ND	4,000	113.00/M	FY1112C-TR
	Green	Milky White	560	2.2	20	7.6	150°	404-1015-1-ND	.41	5.71	17.28	404-1015-2-ND	4,000	65.00/M	PG1112C-TR
	Yellow-Green	Milky White	570	2.1	20	11.7	150°	404-1016-1-ND	.38	5.34	16.17	404-1016-2-ND	4,000	61.00/M	PY1112C-TR
0805 Thin Type															
2	Red	Milky White	660	1.7	20	11.7	150°	404-1017-1-ND	.51	7.14	21.62	404-1017-2-ND	4,000	82.00/M	BR1112H-TR
	Orange	Milky White	605	2.2	20	3.7	160°	404-1018-1-ND	.45	6.35	19.24	404-1018-2-ND	4,000	73.00/M	AA1112H-TR
	Yellow	Milky White	580	2.2	20	3.7	160°	404-1019-1-ND	.47	6.62	20.03	404-1019-2-ND	4,000	76.00/M	AY1112H-TR
	Yellow-Green	Milky White	570	2.1	20	11.7	160°	404-1020-1-ND	.40	5.65	17.12	404-1020-2-ND	4,000	65.00/M	PY1112H-TR
	Green	Milky White	560	2.1	20	6.4	160°	404-1021-1-ND	.53	7.01	20.65	404-1021-2-ND	4,000	69.00/M	PG1112H-TR
	Pure Green	Milky White	555	2.1	20	2.7	160°	404-1022-1-ND	.52	7.25	21.94	404-1022-2-ND	4,000	83.00/M	BG1112H-TR
	Red	Milky White	635	1.9	20	50	150°	404-1023-1-ND	.45	7.03	22.37	404-1023-2-ND	4,000	105.00/M	FR1112H-TR
	Orange	Milky White	609	1.9	20	65	150°	404-1024-1-ND	.44	6.93	22.05	404-1024-2-ND	4,000	104.00/M	FA1112H-TR
	Yellow	Milky White	592	1.9	20	65	150°	404-1025-1-ND	.45	7.03	22.37	404-1025-2-ND	4,000	105.00/M	FY1112H-TR
1206 Standard and Reverse Mount Dome Lens															
3	Red	Water Clear	660	1.8	20	150	30°	404-1032-1-ND	.52	8.17	26.01	404-1032-2-ND	2,000	123.00/M	HKR1105W-TR
	Red	Water Clear	660	1.7	20	50	50°	404-1033-1-ND	.48	6.90	22.09	404-1033-2-ND	2,000	90.36/M	HBR1105W-TR
	Orange	Water Clear	605	2.2	20	20	40°	404-1034-1-ND	.50	7.27	23.28	404-1034-2-ND	2,000	95.00/M	HAA1105W-TR
	Yellow	Water Clear	580	2.2	20	20	40°	404-1035-1-ND	.53	7.60	24.33	404-1035-2-ND	2,000	100.00/M	HAY1105W-TR
	Green	Water Clear	560	2.1	20	30	40°	404-1037-1-ND	.44	6.44	20.59	404-1037-2-ND	2,000	84.24/M	HPG1105W-TR
	Pure Green	Water Clear	555	2.1	20	12	40°	404-1038-1-ND	.44	6.88	21.88	404-1038-2-ND	2,000	103.00/M	HBG1105W-TR
	Red	Water Clear	635	1.9	20	180	50°	404-1029-1-ND	.47	7.36	23.42	404-1029-2-ND	2,000	110.00/M	FR1105W-TR
	Orange	Water Clear	609	1.9	20	200	50°	404-1030-1-ND	.47	7.36	23.42	404-1030-2-ND	2,000	110.00/M	FA1105W-TR
	Yellow	Water Clear	592	1.9	20	180	50°	404-1031-1-ND	.53	8.35	26.57	404-1031-2-ND	2,000	125.00/M	FY1105W-TR
	Yellow	Water Clear	592	2.2	20	500	50°	404-1174-1-ND	.90	14.34	49.28	404-1174-2-ND	2,000	250.88/M	UY1105W-TR
	Green	Water Clear	522	3.3	10	1000	40°	404-1169-1-ND	1.40	21.31	77.50	404-1169-2-ND	2,000	412.30/M	UG1105W-TR
	Blue	Water Clear	465	3.3	10	220	40°	404-1168-1-ND	1.22	18.70	68.00	404-1168-2-ND	2,000	361.76/M	UB1105W-TR
1206 Standard Flat Lens															
4	Red	Water Clear	660	1.7	20	12.8	150°	404-1042-1-ND	.55	7.65	23.16	404-1042-2-ND	2,500	87.00/M	BR1101W-TR
	Orange	Water Clear	605	2.2	20	5.6	150°	404-1043-1-ND	.45	6.50	20.81	404-1043-2-ND	2,500	85.00/M	AA1101W-TR
	Yellow	Water Clear	580	2.2	20	4.0	150°	404-1044-1-ND	.47	6.79	21.74	404-1044-2-ND	2,500	89.00/M	AY1101W-TR
	Yellow-Green	Water Clear	570	2.1	20	8.0	150°	404-1045-1-ND	.48	6.74	20.41	404-1045-2-ND	2,500	77.00/M	PY1101W-TR
	Green	Water Clear	560	2.1	20	4.8	150°	404-1046-1-ND	.51	7.16	21.68	404-1046-2-ND	2,500	81.80/M	PG1101W-TR
	Pure Green	Water Clear	555	2.1	20	2.0	150°	404-1047-1-ND	.55	7.74	23.43	404-1047-2-ND	2,500	88.00/M	BG1101W-TR
	White	Pale Yellow	—	3.0	10	80	170°	404-1177-1-ND	1.18	18.01	65.50	404-1177-2-ND	2,500	348.46/M	LW1141W-TR

† Reversed Polarity

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount LEDs *(Cont.)*

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP @ mA		Iv – Typ (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Stanley Part No.
									1	25	100		Qty.	Pricing	
1206 Standard Inner Lens															
5	Red	Water Clear	660	1.7	20	33.6	70°	404-1048-1-ND	.53	7.39	22.37	404-1048-2-ND	2,500	84.00/M	BR1102W-TR
	Orange	Water Clear	605	2.2	20	10.0	70°	404-1049-1-ND	.46	6.61	21.16	404-1049-2-ND	2,500	87.00/M	AA1102W-TR
	Yellow	Water Clear	580	2.2	20	8.4	70°	404-1050-1-ND	.47	6.79	21.74	404-1050-2-ND	2,500	89.00/M	AY1102W-TR
	Yellow-Green	Water Clear	570	2.1	20	24.0	70°	404-1051-1-ND	.44	6.38	20.42	404-1051-2-ND	2,500	78.40/M	PY1102W-TR
	Green	Water Clear	560	2.1	20	12.0	70°	404-1052-1-ND	.50	7.00	21.20	404-1052-2-ND	2,500	80.00/M	PG1102W-TR
	Pure Green	Water Clear	555	2.1	20	4.8	70°	404-1053-1-ND	.55	7.75	23.48	404-1053-2-ND	2,500	89.00/M	BG1102W-TR
1206 Reverse Mount															
6	Red	Water Clear	660	1.7	20	12.7	140°	404-1054-1-ND†	.46	6.64	21.25	404-1054-2-ND	3,000	87.00/M	BR1111R-TR
	Yellow	Water Clear	580	2.2	20	3.7	150°	404-1056-1-ND	.43	6.22	19.89	404-1056-2-ND	3,000	81.00/M	AY1111R-TR
	Green	Water Clear	560	2.1	20	6.9	150°	404-1058-1-ND	.51	7.14	21.62	404-1058-2-ND	3,000	82.00/M	PG1111R-TR
	Pure Green	Water Clear	555	2.1	20	2.7	150°	404-1059-1-ND	.47	6.83	21.87	404-1059-2-ND	3,000	89.00/M	BG1111R-TR
Right Angle SMT LED															
7	Red	Water Clear	635	1.9	20	50	140°	404-1060-1-ND	.53	8.33	26.50	404-1060-2-ND	3,000	125.00/M	FR1101F-TR
	Orange	Water Clear	609	1.9	20	65	140°	404-1061-1-ND	.53	8.33	26.50	404-1061-2-ND	3,000	125.00/M	FA1101F-TR
	Yellow	Water Clear	592	1.9	20	65	140°	404-1062-1-ND	.53	8.33	26.50	404-1062-2-ND	3,000	125.00/M	FY1101F-TR
	Red	Water Clear	660	1.7	20	12.4	170°	404-1063-1-ND	.51	7.40	23.67	404-1063-2-ND	3,000	97.00/M	BR1101F-TR
	Yellow	Water Clear	580	2.2	20	3.0	150°	404-1065-1-ND	.46	6.61	21.16	404-1065-2-ND	3,000	87.00/M	AY1101F-TR
	Yellow-Green	Water Clear	570	2.1	20	8.8	150°	404-1066-1-ND	.50	7.30	23.36	404-1066-2-ND	3,000	81.36/M	PY1101F-TR
	Green	Water Clear	560	2.1	20	5.2	150°	404-1067-1-ND	.55	7.72	23.37	404-1067-2-ND	3,000	88.00/M	PG1101F-TR
	Pure Green	Water Clear	555	2.1	20	2.4	150°	404-1068-1-ND	.51	7.40	23.67	404-1068-2-ND	3,000	97.00/M	BG1101F-TR
Right Angle SMT LED															
8	Red	Milky White	660	1.7	20	11.7	130°	404-1069-1-ND	.55	7.72	23.37	404-1069-2-ND	4,000	88.00/M	BR1113F-TR
	Yellow-Green	Milky White	570	2.1	20	11.7	150°	404-1070-1-ND	.44	6.13	18.55	404-1070-2-ND	4,000	70.00/M	PY1113F-TR
	Green	Milky White	560	2.1	20	6.4	150°	404-1071-1-ND	.44	6.09	18.44	404-1071-2-ND	4,000	70.00/M	PG1113F-TR
	Red	Milky White	635	1.9	20	50	130°	404-1072-1-ND	.46	7.23	23.00	404-1072-2-ND	4,000	108.00/M	FR1113F-TR
	Orange	Milky White	609	1.9	20	65	130°	404-1073-1-ND	.46	7.19	22.89	404-1073-2-ND	4,000	108.00/M	FA1113F-TR
	Yellow	Milky White	592	1.9	20	65	130°	404-1074-1-ND	.46	7.19	22.89	404-1074-2-ND	4,000	108.00/M	FY1113F-TR
	Bluish-Green	Milky White	502	3.3	10	34	130°	404-1076-1-ND	2.06	27.34	96.71	404-1076-2-ND	4,000	793.55/M	DC1113F-TR
1210 Bi-Color Standard Flat Lens Type SMT LED															
9	Red/Ylw-Grn	Milky White	660/570	1.7/2.1	20/20	12.8/8	160°	404-1078-1-ND	.55	8.64	27.48	404-1078-2-ND	2,500	130.00/M	BRPY1201W-TR
	Red/Green	Milky White	660/560	1.7/2.1	20/20	12.8/4.8	160°	404-1079-1-ND	.56	8.84	28.14	404-1079-2-ND	2,500	133.00/M	BRPG1201W-TR
1210 Bi-Color Two Inner Lens SMT LED															
10	Red/Green	Milky White	660/560	1.7/2.1	20/20	33.6/12	100°/80°	404-1082-1-ND	.57	8.97	28.53	404-1082-2-ND	2,500	134.00/M	BRPG1204W-TR
	Or/Ylw-Grn	Water Clear	605/570	2.2/2.1	20/20	9/12	80°/80°	404-1084-1-ND	.61	9.60	30.56	404-1084-2-ND	2,500	144.00/M	AAPY1204W-TR
Bi-Color Ultra Compact SMT LED															
11	Red/Ylw-Green	Milky White	660/570	1.7/2.1	20/20	11.7/11.7	170°/150°	404-1085-1-ND	.53	8.33	26.50	404-1085-2-ND	4,000	125.00/M	BRPY1211C-TR
	Red/Green	Milky White	660/560	1.7/2.1	20/20	11.7/6.4	170°/150°	404-1086-1-ND	.47	7.36	23.42	404-1086-2-ND	4,000	110.00/M	BRPG1211C-TR
	Red/Pure Green	Milky White	660/555	1.7/2.1	20/20	11.7/2.4	170°/150°	404-1087-1-ND	.54	8.56	27.23	404-1087-2-ND	4,000	128.00/M	BRBG1211C-TR
Bi-Color Right Angle SMT LED															
12	Yellow-Green	Milky White	580/560	2.2/2.1	20/20	3.0/5.2	150°	404-1088-1-ND	.50	7.91	25.17	404-1088-2-ND	3,000	119.00/M	AYPG1211F-TR
	Red/Yellow-Grn	Milky White	660/570	1.7/2.1	20/20	17.6/8.8	150°	404-1089-1-ND	.53	8.39	26.71	404-1089-2-ND	3,000	126.00/M	BRPY1211F-TR
1.6 x 1.25 Low Profile															
13	Yellow	Water Clear	570	2.1	10	8.0	180°	404-1163-1-ND	.44	6.09	18.44	404-1163-2-ND	4,000	69.60/M	PY1105CK-TR
3.2 x 2.8 Flat Lens															
14	Red	Water Clear	645	2.0	20	70	120°	404-1161-1-ND	.52	7.47	23.89	404-1161-2-ND	2,000	97.74/M	FR1104B-TR
	Yellow	Water Clear	588	2.0	20	70	120°	404-1160-1-ND	.52	7.47	23.89	404-1160-2-ND	2,000	97.74/M	FY1104B-TR
	White	Pale Yellow	—	3.3	30	1500	120°	404-1178-1-ND	2.01	30.68	111.55	404-1178-2-ND	2,000	593.45/M	VEW1147LS-TR
PLCC-2 SMT															
15	White	Pale Yellow	—	3.1	10	100	120°	404-1179-1-ND	1.35	20.56	74.75	404-1179-2-ND	3,000	397.67/M	VLW1148LS-TR
Right Angle SMT LED															
16	White	Pale Yellow	—	3.2	20	1200	105°	404-1181-1-ND	2.01	30.70	111.65	404-1181-2-ND	3,000	593.98/M	HEW1142LS-TR

† Reversed Polarity

Through-Hole LEDs

Fig. 1

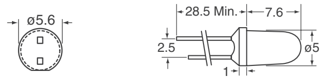

Fig. 2

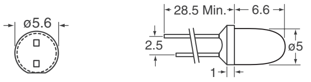

Fig. 3

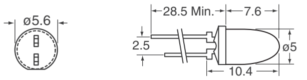

Fig. 4

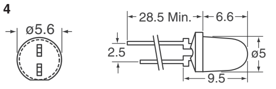

Fig. 5

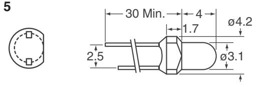

Fig. 6

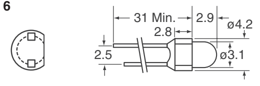

Fig. 7

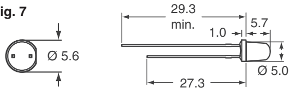

Fig.	Description	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP @ mA		Iv (mcd)	Viewing Angle	Digi-Key Part No.	Price Each			Stanley Part No.
										1	25	100	
1	5mm	Red	Clear Pastel Red	635	1.9	20	3600	10°	404-1090-ND	.61	.40	.35	EFR5366X
	5mm	Orange	Clear Pastel Orange	609	1.9	20	5000	10°	404-1091-ND	.61	.37	.29	EFA5366X
	5mm	Yellow	Clear Pastel Yellow	592	1.9	20	4000	10°	404-1092-ND	.56	.37	.32	EFY5366X
2	5mm	Red	Clear Pastel Red	635	1.9	20	880	45°	404-1096-ND	.61	.40	.35	EFR5365S
	5mm	Orange	Clear Pastel Orange	609	1.9	20	1160	45°	404-1097-ND	.51	.34	.29	EFA5365S
	5mm	Yellow	Clear Pastel Yellow	592	1.9	20	1000	45°	404-1098-ND	.56	.37	.32	EFY5365S
	5mm	Blue	Water Clear	467	3.2	20	1500	45°	404-1171-ND	1.13	.71	.64	LB5806X
	5mm	White	Water Clear	—	3.7	20	2000	35°	404-1162-ND	1.79	1.12	1.01	UW5805S
3	5mm	Red	Water Clear	660	1.8	20	2000	10°	404-1103-ND	1.87	1.17	1.06	H-2000L
	5mm	Red	Water Clear	660	1.8	20	3000	10°	404-1104-ND	1.84	1.15	1.04	H-3000L
4	5mm	Red	Water Clear	660	1.8	20	300	25°	404-1105-ND	.71	.46	.40	KR5005S
5	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	1280	20°	404-1106-ND	.55	.36	.31	EFR3863X
	3mm Flush Mount	Orange	Clear Pastel Orange	609	1.9	20	1600	20°	404-1107-ND	.64	.38	.31	EFA3863X
	3mm Flush Mount	Yellow	Clear Pastel Yellow	592	1.9	20	1440	20°	404-1108-ND	.55	.36	.31	EFY3863X
	3mm Flush Mount	Blue	Water Clear	467	3.2	20	750	20°	404-1170-ND	1.16	.73	.66	LB3803X
	3mm Flush Mount	White	Water Clear	—	3.7	20	2400	25°	404-1175-ND	1.83	1.15	1.03	UW3803X
6	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	440	70°	404-1112-ND	.55	.36	.31	EFR3864X
	3mm Flush Mount	Orange	Clear Pastel Orange	609	1.9	20	560	70°	404-1113-ND	.58	.35	.28	EFA3864X
	3mm Flush Mount	Yellow	Clear Pastel Yellow	592	1.9	20	500	70°	404-1114-ND	.55	.36	.31	EFY3864X
7	5mm	Green	Water Clear	517	3.2	20	2000	35°	404-1173-ND	1.61	1.01	.91	LG5804B
	5mm	Blue	Water Clear	467	3.2	20	480	35°	404-1172-ND	1.17	.73	.66	LB5804B

BIVAR MOVING LIGHT

LED Modules

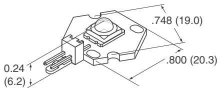

Features:
- **Lens Appearance:** Water Clear
- **Viewing Angle:** 100°

Dominant Wave Length λd (nm)			Electro-Optical Data @ 350mA							
			Vf (V)	Lum Flux (lm)		Digi-Key	Price Each			Bivar
Min.	Max.	Color	Typ.	Min.	Max.	Part No.	1	10	100	Part No.
465	475	Blue	3.3	6.3	23.5	492-1131-ND	14.30	12.03	10.99	LK-470-001
465	475	Blue	3.3	6.3	23.5	492-1136-ND†	14.30	12.03	10.99	LK-470-001-FC
620	635	Red	2.3	18.1	51.7	492-1134-ND	9.90	8.33	7.61	LK-630-001

† Field Connect

Molded and Self-Retaining LED Mounts

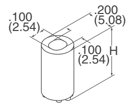

Features:
- One universal style for both T-1 (3mm) and T-1 3/4 (5mm) LEDs
- Internal tapered divider prevents leads from shorting

Material Specifications:
- UL Rated 94V-0, Color: Black, 33% GF Polyphalamide (PPA)

Dimension H Inch (mm)	Digi-Key Part No.	Pricing 10	100	500	Bivar Part No.
.15 (3.8)	492-1029-ND	1.65	11.00	40.70	LTM-150
.2 (5.1)	492-1030-ND	1.65	11.00	40.70	LTM-200
.25 (6.4)	492-1031-ND	1.69	11.25	41.63	LTM-250
.3 (7.6)	492-1032-ND	1.69	11.25	41.63	LTM-300
.35 (8.9)	492-1033-ND	1.69	11.25	41.63	LTM-350
.4 (10.2)	492-1034-ND	1.80	12.00	44.40	LTM-400
.45 (11.4)	492-1035-ND	1.80	12.00	44.40	LTM-450
.5 (12.7)	492-1036-ND	1.95	13.00	48.10	LTM-500

Light Pipes

Fig. 1

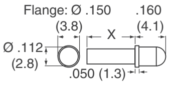

Fig. 2

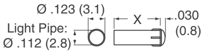

Fig. 3

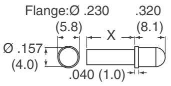

Fig. 4

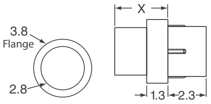

Features: PLP1 and PLP2 Series: • Protects circuits from ESD • Use with BivarOpto SM or Through-hole Series LEDs • PLP1 Series panel light pipes press fits into panel **PLP5 Series:** • Dual-lens geometry • Improved lighting intensity • Press fits into panel

Fig.	Dimension X Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Bivar Part No.
		PLP1 Series				
1	.125 (3.2)	492-1148-ND	.74	.41	.30	PLP1-125
	.250 (6.4)	492-1149-ND	.74	.41	.30	PLP1-250
	.500 (12.7)	492-1150-ND	.74	.41	.30	PLP1-500
	.750 (19.0)	492-1151-ND	.74	.41	.30	PLP1-750
		PLP2 Series				
2	.125 (3.2)	492-1152-ND	.74	.41	.30	PLP2-125
	.250 (6.4)	492-1153-ND	.74	.41	.30	PLP2-250
	.500 (12.7)	492-1154-ND	.74	.41	.30	PLP2-500
	.750 (19.0)	492-1155-ND	.74	.41	.30	PLP2-750
		PLP5 Series				
3	.250 (6.4)	492-1142-ND	.74	.41	.30	PLP5-250
	1.00 (25.4)	492-1145-ND	.74	.41	.30	PLP5-1000
	1.25 (31.8)	492-1146-ND	.74	.41	.30	PLP5-1250
	1.50 (38.1)	492-1147-ND	.74	.41	.30	PLP5-1500
		PLP1 Flat Lense Series				
4	.375 (9.5)	492-1188-ND	.59	.50	.39	PLP1-375-F

4 Pin Super Flux LED Lamps Orca R Series

Fig. 1

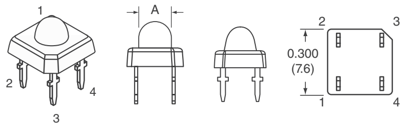

Fig. 2

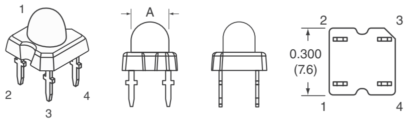

Fig. 3

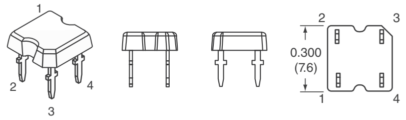

Specifications: • Automatic Insertion Compatible - Tubular Packaging • Automatic Placement Compatible • High Intensity Output • High Power Efficiency

Applications: • Automotive Exterior Lighting • Decorative Interior or Exterior Lighting • Specialty Stage Lighting • Electronic Signage

Fig.	Dimension A Inch (mm)	Emitted Color	Typical Foward Voltage (V)	Typical Forward Current (mA)	Luminous Intensity Typical (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	Bivar Part No.
1	.100 (2.5)	Blue, Green	3.8 Blue, 3.8 Green	50	150 Blue,1500 Green	80°	492-1157-ND	5.81	4.94	3.78	R50BG2-5-0080
	.100 (2.5)	Blue	3.4	20	600	80°	492-1160-ND	1.56	1.33	1.02	R20BLU-5-0080
	.100 (2.5)	Green	3.4	20	3000	80°	492-1164-ND	1.72	1.47	1.12	R20GRN-5-0080
	.100 (2.5)	Blue, Red	3.8 Blue, 2.6 Red	50	200 Blue, 1000 Red	80°	492-1168-ND	3.78	3.22	2.46	R50RB2-5-0080
	.100 (2.5)	Red	2.4	50	2000	80°	492-1171-ND	1.62	1.38	1.06	R50RED-5-0080
	.100 (2.5)	Green, Red	3.8 Green, 2.6 Red	50	2000 Green, 1500 Red	80°	492-1175-ND	4.45	3.79	2.90	R50RG2-5-0080
	.100 (2.5)	Red, Green, Blue (RGB)	2.6 Red, 3.8 Green, 3.8 Blue	50	1000 Red, 2000 Green, 200 Blue	80°	492-1178-ND	6.79	5.78	4.42	R50RGB-5-0080
	.100 (2.5)	White	3.4	20	2000	80°	492-1181-ND	1.64	1.40	1.07	R20WHT-5-0080
	.100 (2.5)	Yellow	2.4	50	1500	80°	492-1185-ND	1.62	1.38	1.06	R50YLW-5-0080
	.181 (4.6)	Blue	3.4	20	1500	45°	492-1159-ND	1.56	1.33	1.02	R20BLU-4-0045
	.181 (4.6)	Green	3.4	20	8000	45°	492-1163-ND	1.72	1.47	1.12	R20GRN-4-0045
	.181 (4.6)	Red	2.4	50	6000	45°	492-1170-ND	1.62	1.38	1.06	R50RED-4-0045
	.181 (4.6)	White	3.4	20	8000	45°	492-1180-ND	1.64	1.40	1.07	R20WHT-4-0045
	.181 (4.6)	Yellow	2.4	50	6000	45°	492-1184-ND	1.62	1.38	1.06	R50YLW-4-0045
	.181 (4.6)	Blue, Green	3.8 Blue, 3.8 Green	50	400 Blue, 5000 Green	45°	492-1156-ND	5.81	4.94	3.78	R50BG2-4-0045
	.181 (4.6)	Blue, Red	3.8 Blue, 2.6 Red	50	400 Blue, 4000 Red	45°	492-1167-ND	3.78	3.22	2.46	R50RB2-4-0045
	.181 (4.6)	Green, Red	3.8 Green, 2.6 Red	50	5000 Green, 4000 Red	45°	492-1174-ND	4.45	3.79	2.90	R50RG2-4-0045
	.181 (4.6)	Red, Green, Blue (RGB)	2.6 Red, 3.8 Green, 3.8 Blue	50	4000 Red, 5000 Green, 400 Blue	45°	492-1177-ND	6.79	5.78	4.42	R50RGB-4-0045
2	.209 (5.3)	Blue	3.4	20	1500	30°, 45°	492-1162-ND	1.56	1.33	1.02	R20BLU-V-3045
	.209 (5.3)	Green	3.4	20	8000	30°, 45°	492-1166-ND	1.72	1.47	1.12	R20GRN-V-3045
	.209 (5.3)	Red	2.4	50	5000	30°, 45°	492-1173-ND	1.62	1.38	1.06	R50RED-V-3045
	.209 (5.3)	White	3.4	20	8000	30°, 45°	492-1183-ND	1.64	1.40	1.07	R20WHT-V-3045
	.209 (5.3)	Yellow	2.4	50	4000	30°, 45°	492-1187-ND	1.62	1.38	1.06	R50YLW-V-3045
3	—	Blue, Green	3.8 Blue, 3.8 Green	50	150 Blue, 800 Green	160°	492-1158-ND	5.81	4.94	3.78	R50BG2-F-0160
	—	Blue	3.4	20	150	160°	492-1161-ND	1.56	1.33	1.02	R20BLU-F-0160
	—	Green	3.4	20	1000	160°	492-1165-ND	1.72	1.47	1.12	R20GRN-F-0160
	—	Blue, Red	3.8 Blue, 2.6 Red	50	150 Blue, 600 Red	160°	492-1169-ND	3.78	3.22	2.46	R50RB2-F-0160
	—	Red	2.4	50	600	160°	492-1172-ND	1.62	1.38	1.06	R50RED-F-0160
	—	Green, Red	3.8 Green, 2.6 Red	50	800 Green, 600 Red	160°	492-1176-ND	4.45	3.79	2.90	R50RG2-F-0160
	—	Red, Green, Blue (RGB)	2.6 Red, 3.8 Green, 3.8 Blue	50	600 Red, 800 Green, 150 Blue	160°	492-1179-ND	6.79	5.78	4.42	R50RGB-F-0160
	—	White	3.4	20	600	160°	492-1182-ND	1.64	1.40	1.07	R20WHT-F-0160
	—	Yellow	2.4	50	600	160°	492-1186-ND	1.62	1.38	1.06	R50YLW-F-0160

LED, Dot Matrix Displays

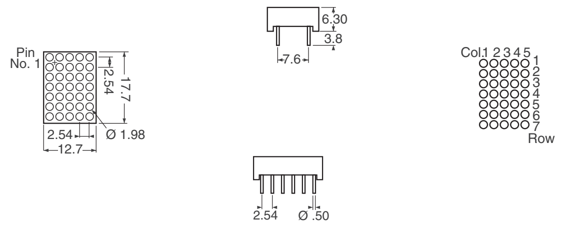
Fig. 1 – 0.7” 5 x 7 Matrix

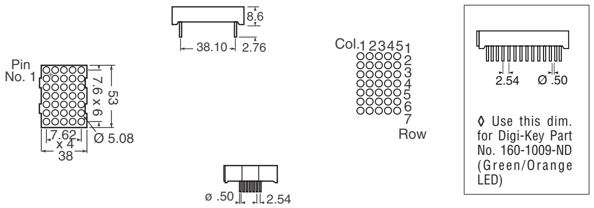
Fig. 2 – 2.0” 5 x 7 Matrix

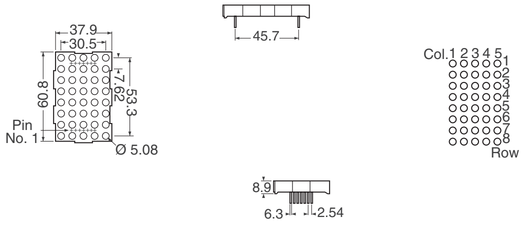
Fig. 3 – 2.3” 5 x 8 Matrix

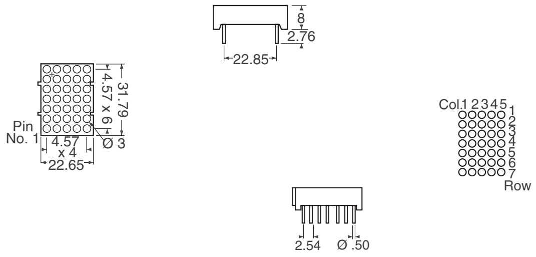
Fig. 4 – 1.2” 5 x 7 Matrix

Fig.	Color	Peak Wavelength (nm)	Typ. Vf (V) (If = 20mA)	Max Average If (mA)	Typ. Iv (mcd)	Digi-Key Part No. Anode Row/ Cathode Column	Digi-Key Part No. Cathode Row/ Anode Column	Price Each 1	10	100	Lite-On Part No. Anode Row/ Cathode Column	Lite-On Part No. Cathode Row/ Anode Column
Standard LED Dot Matrix Displays — RoHS Compliant												
1	Green	565	2.1	11	2.0§	160-1002-ND	—	3.75	3.13	2.25	LTP-757G	—
	Hi. Eff. Red	635	2.0	10	2.0§	160-1003-ND	—	4.50	3.75	2.70	LTP-757HR	—
2	Green/Red-Orange	565/630	2.1/2.0	13/13	4.8§	160-1009-ND◊	—	6.97	6.32	4.21	LTP-2757AA	—
3	Hi. Eff. Red	635	2.1	10	4.8§	160-1014-ND	—	6.51	5.43	3.91	LTP-2158AHR	—
AlInGaP LED Dot Matrix Displays												
1	Super Red	639	2.0	13	3.4‡	160-1555-5-ND◆	160-1554-5-ND◆	4.59	3.83	2.76	LTP-757KR	LTP-747KR
	Red-Orange	621	2.05	13	3.4‡	160-1553-5-ND◆	160-1552-5-ND◆	4.59	3.83	2.76	LTP-757KA	LTP-747KA
	Yellow	595	2.05	13	3.4‡	160-1557-5-ND◆	160-1556-5-ND	4.59	3.83	2.76	LTP-757KY	LTP-747KY
4	Super Red	639	2.1	13	3.8‡	160-1567-5-ND◆	—	5.06	4.22	3.04	LTP-1557AKR	—
	Red-Orange	621	2.05	13	3.8‡	160-1565-5-ND	160-1564-5-ND◆	5.40	4.50	3.24	LTP-1557AKA	LTP-1457AKA
2	Red-Orange	621	2.05	13	4.6‡	160-1559-5-ND	160-1558-5-ND◆	5.58	4.65	3.35	LTP-2157AKA	LTP-2057AKA
	Yellow	595	2.05	13	4.6‡	160-1563-5-ND	160-1562-5-ND◆	5.58	4.65	3.35	LTP-2157AKY	LTP-2057AKY

◆ ***RoHS Compliant*** § 80mA, 1/16 duty cycle ‡ 32mA, 1/16 duty cycle ◊ See drawing for physical dimensions.

.8” Big Lamps with Universal Sphere Lens

Features:

RoHS COMPLIANT

- High luminous intensity
- Categorized for luminous intensity
- Excellent on-off contrast
- Operating Temperature Range: -25°C ~ 85°C

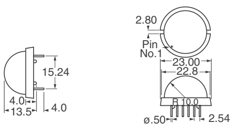

Color	If Peak per chip (mA)	If Cont. per chip (mA)	Digi-Key Part No.	Pricing 1	10	100
Green	100	25	160-1025-ND	2.45	21.70	140.00
Hi. Eff. Red	100	25	160-1026-ND	2.45	21.70	140.00
Yellow	80	20	160-1027-ND	2.45	21.70	140.00

Absolute Max. Ratings at T_A = 25°C, VF = 2.1, VR = 5V

Bar Graph Array

RoHS COMPLIANT

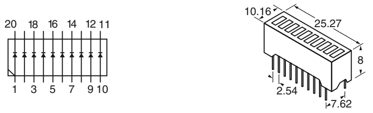

Color	Continuous Forward Current	Forward Voltage (Vf)	Digi-Key Part No.	Pricing 1	10	100
Hi. Eff. Red	25	2.1	160-1066-ND	1.40	11.38	78.75
Green	25	2.1	160-1067-ND	1.40	11.38	78.75
Yellow	20	2.1	160-1068-ND	1.40	11.38	78.75

LITEON Displays

Fig. 1

Alphanumeric Displays

FEATURES:

- Low power requirements
- Excellent character appearance
- High contrast and brightness
- Wide viewing angle
- Categorized for luminous intensity

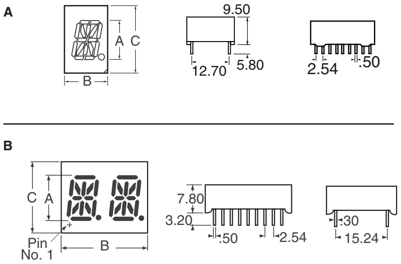

Fig. 2

Ultra-Large 7-Segment Displays

FEATURES:

- Continuous uniform segments
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

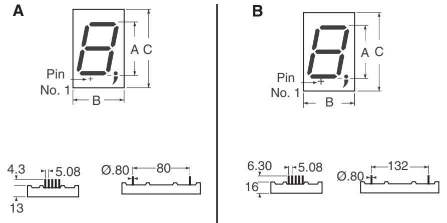

3” (76.20mm) Size **5” (127.00mm) Size**

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ. (D.P.)	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Pricing 1	10	100
						1-Digit LED Alphanumeric Displays — RoHS Compliant									
1A	Direct Drive	.50 (12.7)	16.00 x 25.00	Hi. Eff. Red	Red	635	2.0	25	2200	10	160-1108-ND	—	2.98	26.35	170.00
	Direct Drive	.50 (12.7)	16.00 x 25.00	Yellow	Black	585	2.1	20	2200	10	160-1107-ND	—	2.98	26.35	170.00
	Direct Drive	.50 (12.7)	16.00 x 25.00	Green	Black	565	2.1	25	2200	10	160-1106-ND	—	2.98	26.35	170.00
						2-Digit LED Alphanumeric Displays — RoHS Compliant									
1B	Duplex	.54 (13.8)	25.2 x 21.15	Red-Orange	Gray	630	2.0	25	2300	10	160-1011-ND	160-1010-ND	3.78	31.50	226.80
	Duplex	.54 (13.8)	25.2 x 21.15	Green	Gray	565	2.1	25	2300	10	160-1013-ND	160-1012-ND	3.78	31.50	226.80
						Ultra-Large 7-Segment LED Numeric Displays									
2A	Direct Drive	3.0 (76.20)	70.00 x 110.0	Hi. Eff. Red	Black	635	12.0 (4.0)	40	30000	20	160-1018-ND◆	—	18.52	177.30	1182.00
	Direct Drive	3.0 (76.20)	70.00 x 110.0	Green	Black	565	12.6 (4.2)	40	30000	20	160-1020-ND	160-1019-ND	16.36	156.65	1044.35
2B	Direct Drive	5.0 (127.0)	108.0 x 180.0	Hi. Eff. Red	Black	635	20.0 (4.0)	60	60000	30	160-1022-ND◆	160-1021-ND◆	38.98	344.47	2628.85

Absolute Maximum Ratings at T_A = 25°C ◆ ***RoHS Compliant***

Seven Segment Displays

Fig. 1

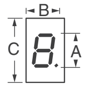

Fig. 2

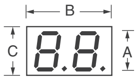

Fig. 3

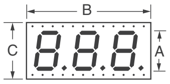

Fig. 4

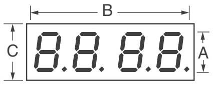

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	10	100
						AlInGaP Seven-Segment Single-Digit Displays									
1	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Lt. Gray	639	2.00	25	650	1	160-1527-5-ND◆	—	1.36	1.11	.77
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Lt. Gray	588	2.05	25	650	1	160-1525-5-ND◆	—	1.34	1.10	.76
	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Gray	639	2.00	25	520	1	160-1532-5-ND◆	160-1533-5-ND◆	1.44	1.17	.81
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow-Orange	Gray	611	2.05	25	650	1	—	160-1531-5-ND	1.44	1.17	.81
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Gray	588	2.05	25	867	1	160-1528-5-ND◆	160-1529-5-ND◆	1.44	1.17	.81
						Blue Seven-Segment Single-Digit Displays — RoHS Compliant									
1	Direct Drive	.28 (7.00)	7.4 x 10.0	Blue	Gray	428	3.8	25	3000	10	160-1513-5-ND	160-1514-5-ND	5.43	4.53	3.26
	Direct Drive	.39 (10.00)	9.70 x 12.9	Blue	Gray	428	3.8	25	3600	10	160-1515-5-ND	160-1516-5-ND	5.55	4.63	3.33
	Direct Drive	.56 (14.22)	12.4 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1517-5-ND	160-1518-5-ND	5.48	4.57	3.30
						AlInGaP Seven-Segment Dual-Digit Displays									
2	Duplex	.39 (10.0)	19.86 x 12.8	Super Red	Gray	639	2.00	25	850	1	160-1538-5-ND◆	160-1539-5-ND◆	2.10	1.86	1.20
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1536-5-ND◆	160-1537-5-ND	2.10	1.86	1.20
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1534-5-ND	160-1535-5-ND	2.10	1.86	1.20
						Blue Seven-Segment Dual-Digit Displays — RoHS Compliant									
2	Duplex	.28 (7.00)	15.02 x 10.00	Blue	Gray	428	3.8	25	3000	10	—	160-1520-5-ND	9.59	8.69	5.80
	Duplex	.56 (14.22)	25.0 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1523-5-ND	160-1524-5-ND	9.71	8.80	5.87
						AlInGaP Seven-Segment Triple-Digit Displays									
3	Multiplex	.39 (10.0)	30.02 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1544-5-ND◆	160-1545-5-ND◆	3.24	2.70	1.95
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	—	160-1543-5-ND◆	3.24	2.70	1.95
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1540-5-ND	160-1541-5-ND◆	3.23	2.70	1.94
						AlInGaP Seven-Segment Quad-Digit Displays — RoHS Compliant									
4	Multiplex	.39 (10.0)	40.18 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1550-5-ND	160-1551-5-ND	3.60	3.00	2.16
	Multiplex	.39 (10.0)	40.18 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1546-5-ND	160-1547-5-ND	3.60	3.00	2.16

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No.	Price Each 1	10	100
						Common Anode — RoHS Compliant								
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1571-5-ND	1.36	1.11	.77
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1572-5-ND	1.32	1.08	.75
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1577-5-ND	1.60	1.30	.90
	Direct Drive	.39 (10.0)	9.7 x 12.9	Red	Lt. Gray	650	2.1	25	9,750	10	160-1578-5-ND	1.48	1.21	.84
	Direct Drive	.56 (14.22)	12.4 x 17.1	Green	Gray	565	2.1	25	2,400	10	160-1575-5-ND	1.32	1.08	.75
						Common Cathode — RoHS Compliant								
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1570-5-ND	1.72	1.40	.97
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1573-5-ND	1.70	1.39	.96
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1574-5-ND	1.60	1.30	.90
	Direct Drive	.56 (14.22)	12.4 x 17.1	Red	Lt. Gray	632	2.1	25	17,000	10	160-1576-5-ND	1.76	1.43	.99

◆ ***RoHS Compliant***

Dimensions in mm

Fig. 1

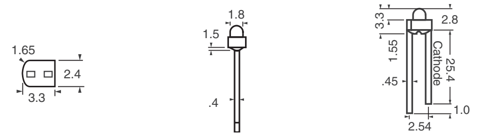

Fig. 2

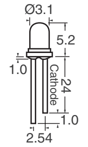

Fig. 3

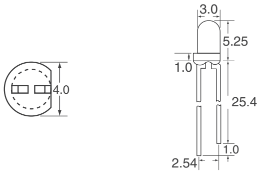

Fig. 4

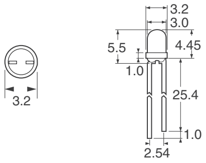

Fig. 5

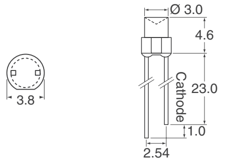

Fig. 6

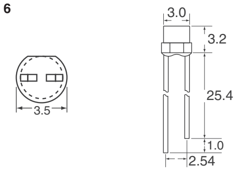

Fig. 7

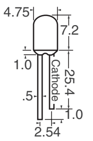

Fig. 8

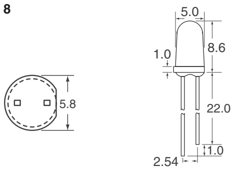

Fig. 9

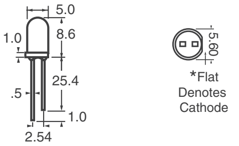

Fig. 10

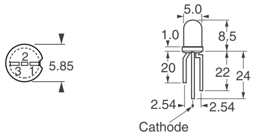

Fig. 11

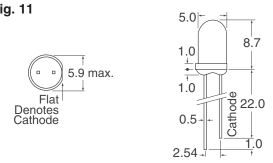

Fig. 12

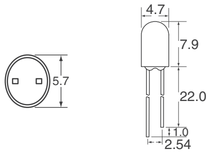

Fig. 13

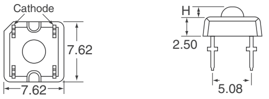

Part No.	H
LTL911xxx	1.50
LTL912xxx	1.90
LTL914xxx	1.90

Fig. 14

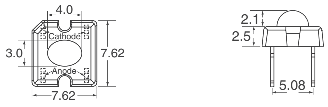

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Max. (mA)	Iv Typical (mcd)	@ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lite-On Part No.
											1	10	100	
1	1.8mm - Dot Point	Hi-Eff. Red	Red Diff.	635	2.0	30	12.6	10	38	160-1084-ND◆	.47	3.30	22.00	LTL-709E
	1.8mm - Dot Point	Yellow	Yellow Diff.	585	2.1	20	12.6	10	38	160-1085-ND◆	.47	3.30	22.00	LTL-709Y
2	T-1 - Double Flange	Super Red	Water Clear	639	2.0	30	250	20	45	160-1661-ND◆	.54	3.87	22.36	LTL1CHKRKNN
	T-1 - Double Flange	Hi-Eff. Red	Red Diff.	635	2.0	30	12.6	10	60	160-1708-ND◆	.52	3.77	20.30	LTL-1CHE
	T-1 - Double Flange	Hi-Eff. Red	Red Trans.	635	2.0	30	19	10	45	160-1704-ND◆	.52	3.77	20.30	LTL-1CHEE
	T-1 - Double Flange	Amber-Yellow	Water Clear	595	2.05	30	320	20	45	160-1664-ND◆	.54	3.87	22.36	LTL1CHKYKNN
	T-1 - Double Flange	Amber-Yellow	Water Clear	595	2.05	30	339	20	45	160-1663-ND◆	.54	3.87	22.36	LTL1CHKYK
	T-1 - Double Flange	Yellow	Water Clear	588	2.05	30	320	20	45	160-1662-ND◆	.54	3.87	22.36	LTL1CHKSKNN
	T-1 - Double Flange	Yellow	Yellow Trans.	585	2.1	20	40	10	45	160-1709-ND◆	.52	3.77	20.30	LTL-1CHYE
	T-1 - Double Flange	Green	Water Clear	575	2.05	30	320	20	45	160-1659-ND◆	.39	2.76	18.40	LTL1CHKGKNN
	T-1 - Double Flange	Green	Green Diff.	565	2.1	30	12.6	10	60	160-1710-ND◆	.52	3.77	20.30	LTL-1CHG
	T-1 - Double Flange	Blue	Water Clear	468	3.7	30	400	20	30	160-1605-ND	1.83	16.21	104.60	LTL1CHCBK4
	T-1 - Double Flange	Blue	Water Clear	468	3.5	30	680	20	30	160-1602-ND◆	1.10	8.54	61.00	LTL1CHTBK4
	T-1 - Double Flange	Blue	Water Clear	468	3.7	30	680	20	30	160-1606-ND	1.86	16.52	106.57	LTL1CHCBK5
	T-1 - Double Flange	Blue	Water Clear	468	3.5	30	880	20	30	160-1603-ND◆	1.22	9.91	68.63	LTL1CHTBK5
3	T-1	Red	Water Clear	632	2.05	30	880	20	22	160-1665-ND◆	.50	3.60	20.80	LTL42EKEKNN
	T-1	Green	Green Diff.	565	2.1	30	12.6	10	40	160-1712-ND◆	.52	3.77	20.30	LTL-4231
	T-1	White	Water Clear	—	3.6	100	2,600	30	25	160-1727-5-ND◆	1.72	14.01	96.98	LTW-420C5
	T-1	White	Water Clear	—	3.3	30	5,000	20	25	160-1782-ND◆	.54	4.21	30.24	LTW-420D7
4	T-1 - Ultrabright	Red	Red Diff.	660	1.8	40	60	20	60	160-1035-ND◆	.46	3.28	21.44	LTL-4261N
	T-1 - Ultrabright	Red	Water Clear	660	1.8	40	170	20	45	160-1034-ND◆	.42	3.04	19.84	LTL-4266N
	T-1	Super Red	Water Clear	639	2.0	30	180	20	56	160-1668-ND◆	.54	3.87	22.36	LTL42NKRKNN
	T-1	Hi-Eff. Red	Red Trans.	635	2.0	30	29	10	45	160-1140-ND◆	.52	3.77	20.30	LTL-4222N
	T-1	Hi-Eff. Red	Red Diff.	635	2.0	30	8.7	10	60	160-1139-ND◆	.52	3.77	20.30	LTL-4221N
	T-1	Red	Water Clear	632	2.05	30	250	20	56	160-1667-ND◆	.54	3.87	22.36	LTL42KE6N
	T-1	Red-Orange	Water Clear	630	2.0	30	60	10	45	160-1141-ND◆	.52	3.77	20.30	LTL-4296N
	T-1 - Bi-Color	Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	4.8/4.8	20	200	160-1058-ND◆	.59	4.56	32.76	LTL-14CHJ
	T-1	Yellow	Yellow Trans.	585	2.1	20	19	10	45	160-1146-ND◆	.52	3.77	20.30	LTL-4252N
	T-1	Yellow	Water Clear	585	2.1	20	40	10	45	160-1147-ND◆	.52	3.77	20.30	LTL-4256N
	T-1	Yellow	Yellow Diff.	585	2.1	20	5.6	10	60	160-1145-ND◆	.52	3.77	20.30	LTL-4251N
	T-1	Green	Green Trans.	565	2.1	30	40	10	45	160-1143-ND◆	.52	3.77	20.30	LTL-4232N
	T-1	Green	Water Clear	565	2.1	30	40	10	45	160-1144-ND◆	.52	3.77	20.30	LTL-4236N
	T-1	Green	Green Diff.	565	2.1	30	12.6	10	60	160-1142-ND◆	.52	3.77	20.30	LTL-4231N
	T-1	White	Water Clear	—	3.5	100	1,100	30	45	160-1734-5-ND◆	1.72	14.01	96.98	LTW-42NC5
5	T-1 - Flat Top	White	Water Clear	—	3.5	100	85	30	130	160-1736-5-ND◆	1.60	13.00	90.00	LTW-815C4
6	T-1 - Flat Top	White	Water Clear	—	3.5	100	140	30	140	160-1735-5-ND◆	1.60	13.00	90.00	LTW-77HC4

◆ RoHS Compliant

(Continued)

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Max. (mA)	Iv Typical (mcd) @ (mA)		Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lite-On Part No.
											1	10	100	
7	T-1 3/4 - No Flange	Hi-Eff. Red	Red Diff.	635	2.0	30	60	10	60	160-1087-ND◆	—	3.77	20.30	LTL-10223W
	T-1 3/4 - No Flange	Yellow	Yellow Diff.	585	2.1	20	12.6	10	60	160-1088-ND◆	—	3.77	20.30	LTL-10253W
	T-1 3/4 - No Flange	Green	Green Diff.	565	2.1	30	40	10	60	160-1089-ND◆	—	3.77	20.30	LTL-10233W
8	T-1 3/4 - Tapered	Super Red	Water Clear	639	1.9	50	4,200	20	12	160-1698-ND◆	.55	3.97	25.92	LTL353QRKNN
	T-1 3/4 - Tapered	Green	Water Clear	525	3.5	30	6,000	20	8	160-1717-ND◆	1.00	8.15	56.41	LTL-353TGK
	T-1 3/4	White	Water Clear	—	3.5	100	2,600	30	30	160-1733-5-ND◆	1.85	15.02	103.95	LTW-2V3C5
9	T-1 3/4 - Bi-Color	Red-Orange/Green	White Diff.	565/630	2.1/2.0	30/30	19/19	20	50	160-1037-ND◆	.59	4.56	32.76	LTL-298WJ
	T-1 3/4 - Ultrabright Bi-Color	Red/Green	White Diff.	660/565	1.8/2.1	40/30	90/40	20	60	160-1038-ND◆	.61	4.76	34.16	LTL-293SJW
	T-1 3/4	Red	Red Diff.	697	2.1	15	3.7	10	36	160-1713-ND◆	.52	3.77	20.30	LTL-4213
	T-1 3/4	Hi. Eff. Red	Red Trans.	635	2.0	30	90	10	16	160-1128-ND◆	.52	3.77	20.30	LTL-4224
	T-1 3/4	Hi. Eff. Red	Red Diff.	635	2.0	30	19	10	36	160-1127-ND◆	.52	3.77	20.30	LTL-4223
	T-1 3/4	Yellow	Yellow Trans.	585	2.1	20	90	10	16	160-1134-ND◆	.52	3.77	20.30	LTL-4254
	T-1 3/4	Yellow	Yellow Diff.	585	2.1	20	19	10	36	160-1133-ND◆	.52	3.77	20.30	LTL-4253
	T-1 3/4	Green	Green Trans.	565	2.1	30	60	10	16	160-1131-ND◆	.40	2.86	15.40	LTL-4234
	T-1 3/4	Green	Water Clear	565	2.1	30	90	10	16	160-1132-ND◆	.52	3.77	20.30	LTL-4238
	T-1 3/4	Green	Green Diff.	565	2.1	30	19	10	36	160-1130-ND◆	.52	3.77	20.30	LTL-4233
10	T-1 3/4 - Ultrabright Bi-Color	Red/Green	White Diff.	697/565	2.1	15/30	5.6/19	10	30	160-1715-ND◆	.59	4.56	32.76	LTL-30EFJ
	T-1 3/4 - Ultrabright Bi-Color	Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	40/29	20	30	160-1057-ND◆	.59	4.56	32.76	LTL-30EHJ
	T-1 3/4 - Ultrabright Bi-Color	Yellow/Green	White Diff.	585/565	2.1	20/30	29/29	20	30	160-1714-ND◆	.59	4.56	32.76	LTL-30EDJ
11	T-1 3/4	Super Red	Water Clear	639	2.0	30	800	20	22	160-1678-ND◆	.54	3.87	22.36	LTL2P3KRK
	T-1 3/4	Super Red	Water Clear	639	2.0	30	500	20	30	160-1685-ND◆	.54	3.87	22.36	LTL2R3KRK
	T-1 3/4	Super Red	Water Clear	639	1.9	50	500	20	30	160-1689-ND	.44	3.41	24.49	LTL2R3QRK
	T-1 3/4	Super Red	Water Clear	639	1.9	50	990	20	30	160-1498-ND◆	.66	4.75	31.04	LTL-2R3VRKNT
	T-1 3/4	Hi-Eff. Red	Red Diff.	635	2.0	30	19	10	50	160-1705-ND◆	.52	3.77	20.30	LTL-307E
	T-1 3/4	Hi-Eff. Red	Red Trans.	635	2.0	30	90	10	40	160-1701-ND◆	.52	3.77	20.30	LTL-307EE
	T-1 3/4	Red	Red Diff.	697	2.1	15	5.6	10	50	160-1707-ND◆	.52	3.77	20.30	LTL-307P
	T-1 3/4	Red	Water Clear	639	2.0	50	6,350	20	15	160-1652-ND◆	.56	4.36	31.30	LTL2H3SEK
	T-1 3/4	Red	Water Clear	639	2.0	50	4,800	20	22	160-1654-ND◆	.45	3.47	24.95	LTL2P3SEK
	T-1 3/4	Red	Water Clear	632	2.05	30	1,700	20	15	160-1669-ND◆	.54	3.87	22.36	LTL2H3KEK
	T-1 3/4	Red	Water Clear	632	2.0	50	3,100	20	15	160-1672-ND◆	.53	4.10	29.40	LTL2H3VEKNT
	T-1 3/4	Red	Water Clear	632	2.05	30	700	20	30	160-1682-ND◆	.54	3.87	22.36	LTL2R3KEK
	T-1 3/4	Red	Water Clear	632	2.0	50	1,200	20	30	160-1499-ND◆	.66	4.75	31.04	LTL-2R3VEKNT
	T-1 3/4	Super Orange	Water Clear	621	2.0	50	1,300	20	30	160-1501-ND◆	.66	4.75	31.04	LTL-2R3VAKNT
	T-1 3/4	Yellow-Orange	Water Clear	611	2.0	50	3,400	20	15	160-1673-ND◆	.53	4.10	29.40	LTL2H3VFKNT
	T-1 3/4	Yellow-Orange	Water Clear	611	2.0	50	700	20	30	160-1688-ND	.44	3.41	24.49	LTL2R3QFK
	T-1 3/4	Yellow-Orange	Water Clear	611	2.05	30	700	20	30	160-1683-ND◆	.54	3.87	22.36	LTL2R3KFK
	T-1 3/4	Amber-Yellow	Water Clear	595	2.0	50	7,800	20	8	160-1496-ND◆	.53	4.10	29.40	LTL-2F3VYKNT
	T-1 3/4	Amber-Yellow	Water Clear	595	2.0	50	3,400	20	15	160-1676-ND◆	.53	4.10	29.40	LTL2H3VYKNT
	T-1 3/4	Amber-Yellow	Water Clear	598	2.0	50	1,300	20	30	160-1503-ND◆	.57	4.12	26.88	LTL-2R3VYKNT
	T-1 3/4	Amber-Yellow	Water Clear	595	2.0	50	700	20	30	160-1690-ND	.44	3.41	24.49	LTL2R3QYK
	T-1 3/4	Amber-Yellow	Water Clear	595	2.05	30	700	20	30	160-1687-ND◆	.54	3.87	22.36	LTL2R3KYK
	T-1 3/4	Amber	Water Clear	594	2.15	50	2,800	20	30	160-1657-ND◆	.55	4.26	30.62	LTL2R3SYK
	T-1 3/4	Yellow	Water Clear	588	2.0	50	3,100	20	15	160-1675-ND◆	.53	4.10	29.40	LTL2H3VSKNT
	T-1 3/4	Yellow	Water Clear	588	2.05	30	1,700	20	15	160-1670-ND◆	.54	3.87	22.36	LTL2H3KSK
	T-1 3/4	Yellow	Water Clear	588	2.05	30	700	20	30	160-1686-ND◆	.54	3.87	22.36	LTL2R3KSK
	T-1 3/4	Yellow	Water Clear	588	2.0	50	1,200	20	30	160-1504-ND◆	.66	4.75	31.04	LTL-2R3VSKNT
	T-1 3/4	Yellow	Yellow Diff.	585	2.1	20	29	10	50	160-1703-ND◆	.52	3.77	20.30	LTL-307Y
	T-1 3/4	Green	Water Clear	574	2.1	30	980	20	22	160-1677-ND◆	.43	3.00	20.00	LTL2P3KGKNN
	T-1 3/4	Green	Green Diff.	574	2.1	30	150	20	40	160-1684-ND◆	.43	3.00	20.00	LTL2R3KG
	T-1 3/4	Green	Green Diff.	565	2.1	30	19	10	50	160-1706-ND◆	.52	3.77	20.30	LTL-307G
	T-1 3/4	Green	Green Trans.	565	2.1	30	60	10	40	160-1702-ND◆	.52	3.77	20.30	LTL-307GE
	T-1 3/4	Green	Water Clear	525	3.5	30	1,900	20	30	160-1615-ND◆	1.38	11.21	77.63	LTL2T3TGK6
	T-1 3/4	Blue	Water Clear	468	3.5	30	1,900	20	15	160-1611-ND◆	1.12	9.10	63.00	LTL2P3TBK5
	T-1 3/4	Blue	Water Clear	468	3.5	30	680	20	30	160-1609-ND◆	1.04	8.09	57.75	LTL2T3TBK4
	T-1 3/4	Blue	Water Clear	468	3.5	30	880	20	30	160-1610-ND◆	1.11	9.00	62.33	LTL2T3TBK5
	T-1 3/4	White	Water Clear	—	3.3	100	13,000	30	15	160-1728-5-ND◆	.69	5.38	38.64	LTW-2S3D7
	T-1 3/4	White	Water Clear	—	3.5	100	4,200	30	15	160-1731-5-ND◆	1.60	13.00	90.00	LTW-2E3C4
	T-1 3/4	White	Water Clear	—	3.8	30	4,200	20	35	160-1772-ND◆	.69	5.38	38.64	LTW-2R3D7
12	Oval - No Flange	Super Red	Water Clear	639	2.2	50	1,500	20	70 Hor./35 Vert.	160-1620-ND◆	.42	3.29	23.59	LTL5V3SRK
13	7.62mm - Square	Super Red	Water Clear	639	2.15	70	1,884	70	50	160-1509-ND	.73	5.69	40.88	LTL-912VRKSA
	7.62mm - Square	Super Red	Water Clear	639	2.15	70	942	70	70	160-1505-ND◆	.69	5.38	38.64	LTL-911VRKSA
	7.62mm - Square	Red	Water Clear	638	2.50	70	7,500	70	30	160-1631-ND◆	.62	4.80	34.31	LTL914SEKS
	7.62mm - Square	Red	Water Clear	638	2.50	70	3,375	70	60	160-1625-ND◆	.56	4.38	31.26	LTL912SEKSA
	7.62mm - Square	Red	Water Clear	638	2.50	70	2,250	70	90	160-1622-ND◆	.56	4.38	31.26	LTL911SEKSA
	7.62mm - Square	Red	Water Clear	632	2.15	70	2,508	70	50	160-1510-ND◆	.69	5.38	38.64	LTL-912VEKSA
	7.62mm - Square	Red	Water Clear	632	2.15	70	1,254	70	70	160-1506-ND◆	.69	5.38	38.64	LTL-911VEKSA
	7.62mm - Square	Red-Orange	Water Clear	624	2.15	70	2,508	70	50	160-1511-ND	.59	4.61	33.11	LTL-912VHKSA
	7.62mm - Square	Amber	Water Clear	598	2.15	70	2,508	70	50	160-1512-ND◆	.69	5.38	38.64	LTL-912VYKSA
	7.62mm - Square	Amber	Water Clear	598	2.15	70	1,254	70	70	160-1508-ND◆	.69	5.38	38.64	LTL-911VYKSA
	7.62mm - Square	Amber	Water Clear	596	2.50	70	4,180	70	30	160-1632-ND	.68	5.26	37.56	LTL914SYKS
	7.62mm - Square	Amber	Water Clear	596	2.50	70	1,254	70	90	160-1624-ND◆	.56	4.38	31.26	LTL911SYKSA
	7.62mm - Square	Blue	Water Clear	465	4.3	50	630	50	56	160-1636-ND	2.21	19.56	126.20	LTL911CBKS5
	7.62mm - Square	Blue	Water Clear	465	4.0	50	770	50	60	160-1639-ND	1.67	14.80	95.47	LTL912TBKS
14	7.62mm Square - Oval	Red	Water Clear	638	2.50	70	3,000	70	100 Hor./40 Vert.	160-1628-ND	.68	5.26	37.56	LTL913SEKS
	7.62mm Square - Oval	Amber	Water Clear	596	2.50	70	1,672	70	100 Hor./40 Vert.	160-1630-ND	.68	5.26	37.56	LTL913SYKS

◆ ***RoHS Compliant***

0

LITEON

Surface Mount LEDs

Dimensions in mm

Fig. 1 — 1206

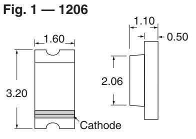

Fig. 2 — 1210

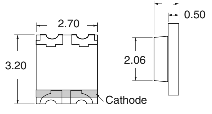

Fig. 3 — 0805

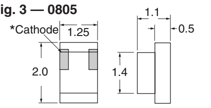

* Anode on part 160-1176-1

Fig. 4 — 0805

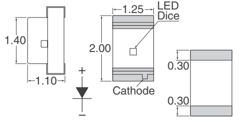

Fig. 5 — 0805 Super Thin

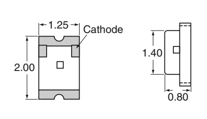

Fig. 6 — 0603

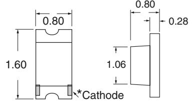

⁎ Anode on part 160-1181-1

Fig. 7 — 0603

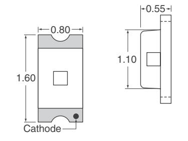

Fig. 8 — 0603 Super Thin

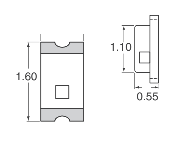

Fig. 9 — 0603 Super Thin

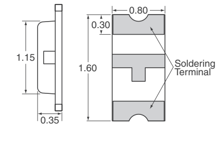

Fig. 10 — 0606 Dual LED

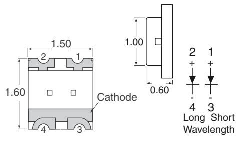

Fig. 11 — 1206 (Rear Mount)

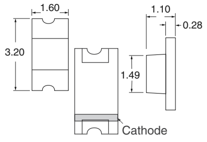

Fig. 12

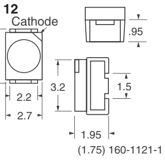

(1.75) 160-1121-1

Fig. 13 — 0805 Right Angle

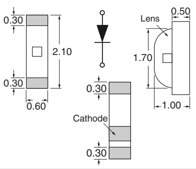

Fig. 14 — 0603 Right Angle

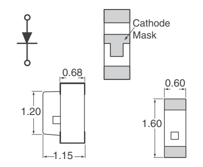

Fig. 15 — 1208 Right Angle

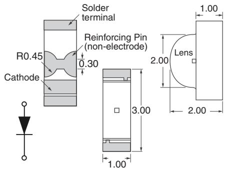

Fig. 16 — Domed

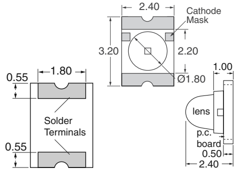

Fig. 17

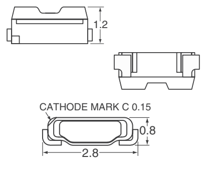

Fig. 18

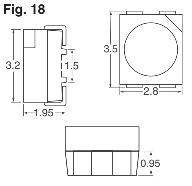

Standard Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If (mA) Max.	Iv Typical		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
						(mcd)	@ mA			1	10	100		Qty.	Pricing	
1	Red	Water Clear	660	1.8	40	25	20	130	160-1167-1-ND	.38	2.70	15.90	160-1167-2-ND	3,000	60.00/M	LTST-C150CKT
	Red Orange	Water Clear	630	2.0	30	6	10	130	160-1168-1-ND	.44	3.15	18.55	160-1168-2-ND	3,000	70.00/M	LTST-C150EKT
	Amber	Water Clear	610	2.1	30	6	10	130	160-1166-1-ND	.44	3.15	18.55	160-1166-2-ND	3,000	70.00/M	LTST-C150AKT
	Yellow	Water Clear	585	2.1	20	6	10	130	160-1170-1-ND	.44	3.15	18.55	160-1170-2-ND	3,000	70.00/M	LTST-C150YKT
	Green	Water Clear	565	2.1	30	6	10	130	160-1169-1-ND	.50	3.64	19.60	160-1169-2-ND	3,000	56.00/M	LTST-C150GKT
	White	Yellow	—	3.2	100	260	20	130	160-1737-1-ND	.60	4.64	33.48	160-1737-2-ND	3,000	162.00/M	LTW-150TK
2	Green/Yellow	Water Clear	565/585	2.1/2.1	30/20	7/6	10	130/130	160-1171-1-ND	.55	3.89	25.52	160-1171-2-ND	3,000	116.00/M	LTST-C155GYKT
	Green/Red Orange	Water Clear	565/630	2.1/2.0	30/30	7/6	10	130/130	160-1172-1-ND	.55	3.89	25.52	160-1172-2-ND	3,000	116.00/M	LTST-C155GEKT
3	Red	Water Clear	660	1.8	40	10	10	130	160-1176-1-ND	.40	2.88	16.96	160-1176-2-ND	3,000	64.00/M	LTST-C170CKT
	Red Orange	Water Clear	630	2.0	30	2	10	130	160-1178-1-ND	.46	3.33	19.61	160-1178-2-ND	3,000	74.00/M	LTST-C170EKT
	Amber	Water Clear	610	2.1	30	2	10	130	160-1177-1-ND	.46	3.33	19.61	160-1177-2-ND	3,000	74.00/M	LTST-C170AKT
	Yellow	Water Clear	585	2.1	20	6	10	130	160-1175-1-ND	.46	3.33	19.61	160-1175-2-ND	3,000	74.00/M	LTST-C170YKT
	Green	Water Clear	565	2.1	30	6	10	130	160-1179-1-ND	.52	3.77	20.30	160-1179-2-ND	3,000	58.00/M	LTST-C170GKT
4	White	Yellow	—	3.3	100	281	20	130	160-1738-1-ND	.60	4.64	33.48	160-1738-2-ND	3,000	162.00/M	LTW-170TK
5	Red	Water Clear	660	1.8	40	25	20	130	160-1421-1-ND	.48	3.42	20.14	160-1421-2-ND	3,000	76.00/M	LTST-C171CKT
	Red Orange	Water Clear	630	2.0	30	6	20	130	160-1422-1-ND	.44	3.15	18.55	160-1422-2-ND	3,000	70.00/M	LTST-C171EKT
	Amber	Water Clear	610	2.1	30	4.5	20	130	160-1419-1-ND	.44	3.15	18.55	160-1419-2-ND	3,000	70.00/M	LTST-C171AKT
	Yellow	Water Clear	585	2.1	20	4.5	20	130	160-1431-1-ND	.44	3.15	18.55	160-1431-2-ND	3,000	70.00/M	LTST-C171YKT
	Green	Water Clear	565	2.1	30	12	20	130	160-1423-1-ND	.44	3.15	18.55	160-1423-2-ND	3,000	70.00/M	LTST-C171GKT
6	Red	Water Clear	660	1.8	40	10	10	130	160-1181-1-ND	.41	2.97	17.49	160-1181-2-ND	3,000	66.00/M	LTST-C190CKT
	Red Orange	Water Clear	630	2.0	30	2	10	130	160-1182-1-ND	.38	2.70	15.90	160-1182-2-ND	3,000	60.00/M	LTST-C190EKT
	Amber	Water Clear	610	2.1	30	2	10	130	160-1180-1-ND	.38	2.70	15.90	160-1180-2-ND	3,000	60.00/M	LTST-C190AKT
	Yellow	Water Clear	585	2.1	20	6	10	130	160-1184-1-ND	.38	2.70	15.90	160-1184-2-ND	3,000	60.00/M	LTST-C190YKT
	Green	Water Clear	565	2.1	30	6	10	130	160-1183-1-ND	.38	2.70	15.90	160-1183-2-ND	3,000	60.00/M	LTST-C190GKT
7	White	Yellow	—	2.93	100	70	20	130	160-1724-1-ND	.60	4.64	33.48	160-1724-2-ND	3,000	216.00/M	LTW-C191TS5
8	Green	Water Clear	565	2.1	30	12	20	130	160-1443-1-ND	.44	3.15	18.55	160-1443-2-ND	5,000	63.00/M	LTST-C191GKT
9	White	Yellow	—	2.95	20	78	5	130	160-1721-1-ND	.64	4.97	32.20	160-1721-2-ND	3,000	152.00/M	LTW-C193TS5
11	Red	Water Clear	660	1.8	40	25	20	130	160-1186-1-ND	.50	3.60	21.20	160-1186-2-ND	3,000	80.00/M	LTST-C230CKT
	Red Orange	Water Clear	630	2.0	30	6	20	130	160-1187-1-ND	.46	3.33	19.61	160-1187-2-ND	3,000	74.00/M	LTST-C230EKT
	Amber	Water Clear	610	2.1	30	4.5	20	130	160-1185-1-ND	.46	3.33	19.61	160-1185-2-ND	3,000	74.00/M	LTST-C230AKT
	Yellow	Water Clear	585	2.1	20	4.5	20	130	160-1189-1-ND	.46	3.33	19.61	160-1189-2-ND	3,000	74.00/M	LTST-C230YKT
	Green	Water Clear	565	2.1	30	14	20	130	160-1188-1-ND	.46	3.33	19.61	160-1188-2-ND	3,000	74.00/M	LTST-C230GKT
12	Amber	Water Clear	610	2.1	30	8	10	120	160-1121-1-ND	.51	3.97	25.73	—	—	—	LTL-94PAKTA
	White	Yellow	—	3.5	100	700	30	120	160-1725-1-ND	.77	5.93	42.35	160-1725-2-ND	2,000	216.00/M	LTW-670DS
13	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1220-1-ND	.46	3.33	19.61	160-1220-2-ND	4,000	74.00/M	LTST-S220EKT
	Green	Water Clear	565	2.1	30	10	20	130	160-1218-1-ND	.46	3.33	19.61	160-1218-2-ND	4,000	74.00/M	LTST-S220GKT
14	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1474-1-ND	.44	3.15	18.55	160-1474-2-ND	4,000	70.00/M	LTST-S270EKT
	Yellow	Water Clear	585	2.1	20	4	20	130	160-1482-1-ND	.44	3.15	18.55	160-1482-2-ND	4,000	70.00/M	LTST-S270YKT
	Green	Water Clear	565	2.1	30	10	20	130	160-1475-1-ND	.44	3.15	18.55	160-1475-2-ND	4,000	70.00/M	LTST-S270GKT
	White	Yellow	—	3.0	100	95	20	130	160-1739-1-ND	.60	4.64	33.48	160-1739-2-ND	4,000	162.00/M	LTW-270TLA
15	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1208-1-ND	.50	3.60	21.20	160-1208-2-ND	3,000	80.00/M	LTST-S320EKT
	Yellow	Water Clear	585	2.1	20	4	20	130	160-1207-1-ND	.50	3.60	21.20	160-1207-2-ND	3,000	80.00/M	LTST-S320YKT
	Green	Water Clear	565	2.1	30	10	20	130	160-1206-1-ND	.50	3.60	21.20	160-1206-2-ND	3,000	80.00/M	LTST-S320GKT
16	Orange	Water Clear	630	2.0	30	25	10	25	160-1214-1-ND	.43	3.02	19.80	160-1214-2-ND	1,500	90.00/M	LTST-C930EKT
	Yellow	Water Clear	585	2.1	20	16	10	25	160-1213-1-ND	.43	3.02	19.80	160-1213-2-ND	1,500	90.00/M	LTST-C930YKT
	Green	Water Clear	565	2.1	30	40	10	25	160-1212-1-ND	.43	3.02	19.80	160-1212-2-ND	1,500	90.00/M	LTST-C930GKT

Blue Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typical		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
						(mcd)	@ mA			1	10	100		Qty.	Pricing	
1	Blue	Water Clear	468	3.4	20	70	20	130	160-1643-1-ND	.56	4.30	31.00	160-1643-2-ND	3,000	200.00/M	LTST-C150TBKT
3	Blue	Water Clear	468	3.3	20	70	20	130	160-1579-1-ND	.56	4.30	31.00	160-1579-2-ND	3,000	200.00/M	LTST-C170TBKT
5	Blue	Water Clear	468	3.4	20	30	20	130	160-1645-1-ND	.56	4.30	31.00	160-1645-2-ND	3,000	200.00/M	LTST-C171TBKT
6	Blue	Water Clear	468	3.4	20	30	20	130	160-1646-1-ND	.56	4.30	31.00	160-1646-2-ND	3,000	150.00/M	LTST-C190TBKT
8	Blue	Water Clear	468	3.4	20	30	20	130	160-1647-1-ND	.56	4.30	31.00	160-1647-2-ND	5,000	140.00/M	LTST-C191TBKT
9	Blue	Water Clear	468	2.80	5	15	5	130	160-1827-1-ND ***NEW!***	.56	4.30	31.00	160-1827-2-ND ***NEW!***	3,000	200.00/M	LTST-C193TBKT-5A
14	Blue	Water Clear	468	3.4	20	70	20	130	160-1650-1-ND	.56	4.30	31.00	160-1650-2-ND	4,000	150.00/M	LTST-S270TBKT
15	Blue	Water Clear	468	3.4	20	30	20	130	160-1651-1-ND	.56	4.30	31.00	160-1651-2-ND	3,000	200.00/M	LTST-S320TBKT
16	Blue	Water Clear	468	3.4	20	450	20	25	160-1649-1-ND	.56	4.30	31.00	160-1649-2-ND	1,500	166.00/M	LTST-C930TBKT

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Ultra-Bright AlInGaP Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typical		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
						(mcd)	@ mA			1	10	100		Qty.	Pricing	
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.44	3.15	18.55	160-1405-2-ND	3,000	66.00/M	LTST-C150KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1402-1-ND	.53	3.78	22.26	160-1402-2-ND	3,000	84.00/M	LTST-C150KAKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1406-1-ND	.53	3.78	22.26	160-1406-2-ND	3,000	66.00/M	LTST-C150KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1404-1-ND	.53	3.78	22.26	160-1404-2-ND	3,000	66.00/M	LTST-C150KGKT
2	Green/Super Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1409-1-ND	.47	3.62	23.45	160-1409-2-ND	3,000	134.00/M	LTST-C155KGJRKT
	Green/Yellow	Water Clear	574/591	2/2	30/30	35/75	20	130	160-1410-1-ND	.47	3.62	23.45	160-1410-2-ND	3,000	134.00/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.44	3.15	18.55	160-1415-2-ND	3,000	70.00/M	LTST-C170KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1412-1-ND	.54	3.87	22.79	160-1412-2-ND	3,000	86.00/M	LTST-C170KAKT
	Amber	Water Clear	611	2.0	30	60	20	130	160-1413-1-ND	.54	3.87	22.79	160-1413-2-ND	3,000	86.00/M	LTST-C170KFKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1416-1-ND	.54	3.87	22.79	160-1416-2-ND	3,000	86.00/M	LTST-C170KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1414-1-ND	.52	3.77	20.30	160-1414-2-ND	3,000	58.00/M	LTST-C170KGKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.53	3.78	22.26	160-1427-2-ND	3,000	84.00/M	LTST-C171KRKT
	Amber Yellow	Water Clear	595	2.0	30	50	20	130	160-1429-1-ND	.53	3.78	22.26	160-1429-2-ND	3,000	84.00/M	LTST-C171KYKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1428-1-ND	.53	3.78	22.26	160-1428-2-ND	3,000	84.00/M	LTST-C171KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1426-1-ND	.53	3.78	22.26	160-1426-2-ND	3,000	84.00/M	LTST-C171KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.46	3.33	19.61	160-1436-2-ND	3,000	58.00/M	LTST-C190KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1433-1-ND	.46	3.33	19.61	160-1433-2-ND	3,000	74.00/M	LTST-C190KAKT
	Amber	Water Clear	611	2.0	30	60	20	130	160-1434-1-ND	.46	3.33	19.61	160-1434-2-ND	3,000	74.00/M	LTST-C190KFKT
	Amber Yellow	Water Clear	595	2.0	30	50	20	130	160-1438-1-ND	.46	3.33	19.61	160-1438-2-ND	3,000	74.00/M	LTST-C190KYKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1437-1-ND	.46	3.33	19.61	160-1437-2-ND	3,000	74.00/M	LTST-C190KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1435-1-ND	.52	3.77	20.30	160-1435-2-ND	3,000	58.00/M	LTST-C190KGKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.53	3.78	22.26	160-1447-2-ND	5,000	76.00/M	LTST-C191KRKT
	Red Orange	Water Clear	605	2.0	30	90	20	130	160-1445-1-ND	.53	3.78	22.26	160-1445-2-ND	5,000	76.00/M	LTST-C191KFKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1448-1-ND	.53	3.78	22.26	160-1448-2-ND	5,000	76.00/M	LTST-C191KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1446-1-ND	.53	3.78	22.26	160-1446-2-ND	5,000	76.00/M	LTST-C191KGKT
10	Green/Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1452-1-ND	.47	3.62	23.45	160-1452-2-ND	4,000	95.00/M	LTST-C195KGJRKT
	Green/Yellow	Water Clear	574/591	2/2	30/30	35/75	20	130	160-1453-1-ND	.47	3.62	23.45	160-1453-2-ND	500	77.00	LTST-C195KGJSKT
11	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.54	3.87	22.79	160-1457-2-ND	3,000	70.00/M	LTST-C230KRKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1458-1-ND	.54	3.87	22.79	160-1458-2-ND	3,000	86.00/M	LTST-C230KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1456-1-ND	.44	3.15	18.55	160-1456-2-ND	3,000	70.00/M	LTST-C230KGKT
13	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.50	3.60	21.20	160-1469-2-ND	4,000	64.00/M	LTST-S220KRKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1470-1-ND	.50	3.60	21.20	160-1470-2-ND	4,000	80.00/M	LTST-S220KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1468-1-ND	.50	3.60	21.20	160-1468-2-ND	4,000	80.00/M	LTST-S220KGKT
14	Super Red	Water Clear	639	2.0	30	54	20	130	160-1479-1-ND	.53	3.78	22.26	160-1479-2-ND	4,000	84.00/M	LTST-S270KRKT
	Amber	Water Clear	611	2.0	20	60	20	130	160-1477-1-ND	.53	3.78	22.26	160-1477-2-ND	4,000	84.00/M	LTST-S270KFKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1480-1-ND	.53	3.78	22.26	160-1480-2-ND	4,000	84.00/M	LTST-S270KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1478-1-ND	.53	3.78	22.26	160-1478-2-ND	4,000	84.00/M	LTST-S270KGKT
15	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.45	3.15	20.68	160-1487-2-ND	3,000	94.00/M	LTST-S320KRKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1488-1-ND	.45	3.15	20.68	160-1488-2-ND	3,000	94.00/M	LTST-S320KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1486-1-ND	.54	3.87	22.79	160-1486-2-ND	3,000	86.00/M	LTST-S320KGKT
16	Super Red	Water Clear	639	2.0	30	850	20	25	160-1463-1-ND	.49	3.48	22.88	160-1463-2-ND	1,500	94.30/M	LTST-C930KRKT
	Red Orange	Water Clear	621	2.0	30	1050	20	25	160-1461-1-ND	.49	3.48	22.88	160-1461-2-ND	1,500	104.00/M	LTST-C930KAKT
	Yellow	Water Clear	591	2.0	30	800	20	25	160-1464-1-ND	.49	3.48	22.88	160-1464-2-ND	1,500	104.00/M	LTST-C930KSKT
	Green	Water Clear	574	2.0	30	365	20	25	160-1462-1-ND	.49	3.48	22.88	160-1462-2-ND	1,500	104.00/M	LTST-C930KGKT
17	White	Yellow	—	3.6◊	30	1580◊	20	110	160-1773-1-ND	.93	7.12	50.88	160-1773-2-ND	2,000	259.00/M	LTW-008ZDCG
18	White	Yellow	—	3.4	20	3700	20	120	160-1765-1-ND	2.15	19.20	124.23	—	—	—	LTW-673DT
	White	Yellow	—	3.7	50	—	—	120	160-1766-1-ND	1.25	9.97	69.25	160-1766-2-ND	2,000	368.00/M	LTW-E670DS

◊ Maximum

Power LEDs

The LOPL (Lite-On Power LED) Emitter I is a 1W power LED package which is a point light source with more energy efficiency than incandescent and halogen lamps.

The LTPL (Lite-On Power LED) is a revolutionary, energy efficient and ultra compact new light source, combining the lifetime and reliability advantages of Light Emitting Diodes with the brightness of conventional lighting. It gives total design freedom and unmatched brightness, creating a new opportunity for solid state lighting to displace conventional lighting technologies.

Features:
• High power LED light source • Long life, up to 100k hours • Instant light (less than 100ns) • Low voltage DC operated • Low thermal resistance

Applications:
• Portable lights • Traffic signaling • Backlighting • Interior and exterior automotive lighting • Decorative and landscape lighting • Medical illumination

Emitted Color	Peak Wavelength Typical (nm)	Vf Typical (V)	If (mA) Max.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 500	Lite-On Part No.
					1	10	100			
Amber	590	2.3	500	160-1803-1-ND	4.37	3.65	2.65	160-1803-2-ND	960.50	LTPL-P011A
Blue	465	3.8	400	160-1804-1-ND	3.88	3.24	2.35	160-1804-2-ND	852.00	LTPL-P011B
Green	525	3.7	350	160-1805-1-ND	3.94	3.29	2.39	160-1805-2-ND	865.00	LTPL-P011G
Red/Orange	617	2.3	500	160-1806-1-ND	4.37	3.65	2.65	160-1806-2-ND	960.50	LTPL-P011H
Red	625	2.3	500	160-1807-1-ND	4.37	3.65	2.65	160-1807-2-ND	960.50	LTPL-P011R
Warm White	3250K	3.7	400	160-1808-1-ND	3.76	3.13	2.28	160-1808-2-ND	825.00	LTPL-P011MS
Warm White	3250K	3.5	700	160-1815-1-ND	5.08	4.23	3.08	160-1815-2-ND	1115.00	LTPL-P013MSS0
Cool White	5650K	3.5	700	160-1816-1-ND	4.75	3.96	2.88	160-1816-2-ND	1042.50	LTPL-P013WST1
Cool White	5650K	3.5	700	160-1817-1-ND	5.45	4.54	3.30	160-1817-2-ND	1196.50	LTPL-P013WST2
Cool White	5650K	3.5	700	160-1818-1-ND	6.19	5.16	3.75	160-1818-2-ND	1359.50	LTPL-P013WSU1
Cool White	5650K	3.5	700	160-1819-1-ND	8.63	7.48	5.04	160-1819-2-ND	1976.50	LTPL-P013WSU2
Warm White	3250K	3.9	1,000	160-1822-1-ND	8.06	6.99	4.71	160-1822-2-ND	1848.00	LTPL-P014MSS0
Cool White	6300K	3.9	1,000	160-1823-1-ND	8.74	7.58	5.10	160-1823-2-ND	2002.50	LTPL-P014WST2
Cool White	6300K	3.9	1,000	160-1824-1-ND	9.98	8.65	5.82	160-1824-2-ND	2286.00	LTPL-P014WSU1
Cool White	6300K	3.9	1,000	160-1825-1-ND	11.51	9.98	6.72	160-1825-2-ND	2638.50	LTPL-P014WSU2

Dimensions in mm

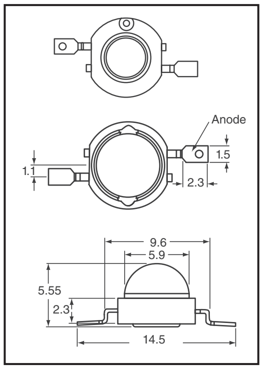

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs

Dim. in mm

Fig. 1

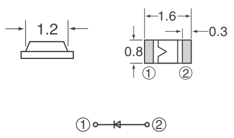

Fig. 2

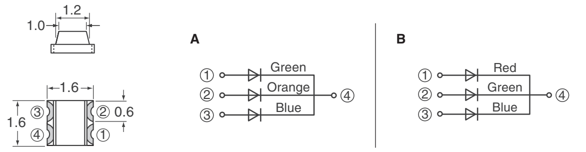

Fig. 3

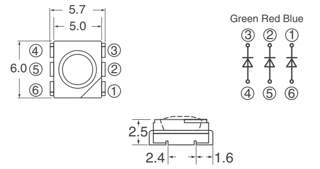

Fig. 4

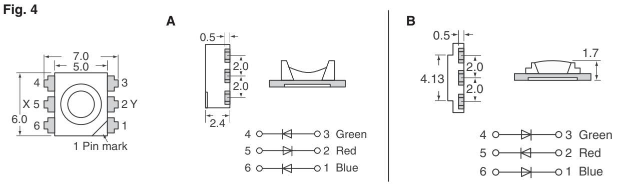

Fig. 5

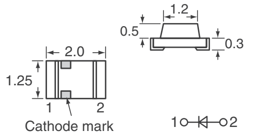

Fig. 6

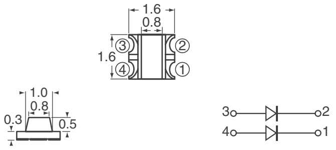

Fig. 7

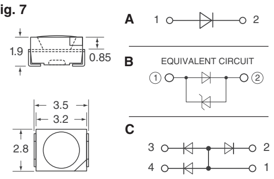

Fig. 8

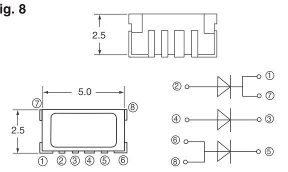

Fig. 9

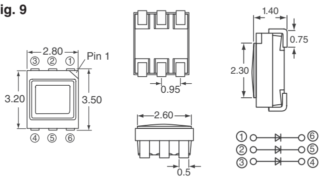

Fig. 10

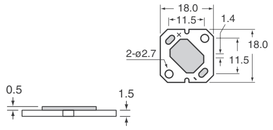

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Maximum (mA)	Luminous Intensity Iv Typical (mcd)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Sharp Part No.
1	Sunset-Orange	Clear	609	2.0	20	19	425-1812-1-ND◆	.33	2.67	18.37	6,000	108.55/M	GM1JS35200AE
2A	Blue/Green/Orange	Milky Diff.	470/528/627	3.2/3.2/2.1	20	30/92/100	425-1815-1-ND	3.38	27.00	222.75	—	—	GM1WA80350A
2B	Red/Green/Blue	Clear	618/527/472	2.0/3.0/2.9	10	28/75/25	425-2722-1-ND◆	1.98	16.54	132.30	5,000	826.88/M	GM1WA55321A
4A	Red/Green/Blue	Clear	—	2.2/4.2/4.2	50	3,000	425-1919-1-ND◆	6.28	50.25	414.55	—	—	GM5WA06270A
4B	White	Clear	465	3.4	50	4,000	425-2667-1-ND◆	3.33	29.05	236.25	800	1778.00	GM5BW01300A
5	Yellow-Green	Milky Diffusion	570	2.1	50	19	425-1920-1-ND◆	.39	3.14	21.60	—	—	LT1E40A
	Red		647	2.1	50	78.7	425-1926-1-ND◆	.86	6.89	47.39	4,000	280.02/M	LT1ZR40A
	Amber		591	2.1	50	92.7	425-1927-1-ND◆	.83	6.65	45.74	4,000	270.27/M	LT1ZV40A
6	Yellow-Green/Yellow	Milky Diffusion	565/585	2.1/2.0	50	19/8.3	425-1924-1-ND◆	.59	4.75	32.65	—	—	LT1EH67A
	Yellow-Green/Red		565/635	2.1/2.0	50	19/8.8	425-1925-1-ND◆	.48	3.84	26.40	—	—	LT1ED67A
7A	White	Clear	465	3.3	20	1,400	425-2652-1-ND◆	1.50	12.50	100.00	—	—	GM5BW96320A
	Red	Clear	624	2.2	30	600	425-2729-1-ND◆	2.10	16.80	115.50	2,000	787.50/M	GM5ZR96270A
	Amber	Clear	588	2.2	30	600	425-2730-1-ND◆	1.58	13.13	105.00	—	—	GM5ZV96270A
7B	White	Clear	0.31‡	3.2	30	2,450	425-2693-1-ND◆	1.16	9.65	77.18	2,000	540.26/M	GM5BW96380A
	Green	Clear	527	3.3	30	1,300	425-2726-1-ND◆	1.65	13.75	110.00	—	—	GM5GC96270A
	White	Clear	0.34, 0.36‡	3.2	20	2,200	425-2739-1-ND◆	1.16	9.65	77.18	2,000	540.26/M	GM5BW96385A
	Warm White	Diffused, Yellow Tinted	460	3.2	20	2,000	425-2744-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE27P0A
	Warm White		437	3.2	20	2,050	425-2745-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE30P0A
	Warm White		405	3.2	20	2,100	425-2746-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE35P0A
	White		381	3.2	20	2,150	425-2747-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE40P0A
	White		364	3.2	20	2,200	425-2748-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE45P0A
	White	Diffused, Yellow Tinted	352	3.2	20	2,200	425-2749-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE50P0A
	Cool White		337	3.2	20	2,200	425-2750-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE57P0A
	Cool White		324	3.2	20	2,200	425-2751-1-ND◆	.82	6.82	54.58	2,000	382.06/M	GM5SAE65P0A
7C	White	Diffused White	356	3.2	20	6,400	425-2740-1-ND◆	1.98	16.54	132.30	2,000	926.10/M	GM5BW97330A
	White		0.31, 0.31‡	3.2	20	7,000	425-2741-1-ND◆	1.98	16.54	132.30	2,000	926.10/M	GM5BW97331A
	Cool White		312	3.2	20	5,800	425-2742-1-ND◆	1.98	16.54	132.30	2,000	926.10/M	GM5BW97332A
	Cool White		283	3.2	20	5,100	425-2743-1-ND◆	1.98	16.54	132.30	2,000	926.10/M	GM5BW97333A
9	Red/Green/Blue	Diff. White	627/523/463	2.2/3.3/3.2	30	620/1180/270	425-2728-1-ND◆	3.30	27.50	220.00	2,500	1463.00/M	GM5WA94310A

Fig.	Emitted Color	Color Coordinates X	Y	Vf Typical (V)	If Maximum (mA)	Luminous Intensity Iv Typical (Lumen)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel† Pricing 800	Sharp Part No.
3	Red/Green/Blue	0.275	0.318	2.3/3.7/3.7	50	1,500 mcd	425-2727-1-ND§◆	2.94	2.36	1.95	1194.88	GM5WA06256A
8	Red/Green/Blue	0.25	0.337	2.3/3.3/3.3	30	2,000 mcd	425-2723-1-ND§◆	2.89	2.31	1.91	1266.10	GM4WA25300A
10	Warm White	0.45	0.41	10.2	400	200	425-2731-ND◆	31.83	25.47	21.02	—	GW5BDC15L02
	White	0.35	0.35	10.2	400	280	425-2695-ND◆	31.83	25.47	21.02	—	GW5BWC15L02
	Cool White, High CRI	0.316	0.324	10.2	700	350	425-2736-ND◆	39.35	31.48	25.98	—	GW5BNF15L10
	Cool White, High CRI	0.35	0.35	10.2	400	190	425-2733-ND◆	31.83	25.47	21.02	—	GW5BNC15L02
	White	0.345	0.351	10.2	700	540	425-2738-ND◆	38.59	30.87	25.47	—	GW5BWF15L00
	Warm White	0.345	0.351	10.2	700	400	425-2732-ND◆	38.59	30.87	25.47	—	GW5BDF15L00
	Cool White, High CRI	0.345	0.351	10.2	700	350	425-2735-ND◆	38.59	30.87	25.47	—	GW5BNF15L00

§ Cut Tape   † For Tape and Reel part number, change 1-ND to 2-ND.   ‡ Chromaticity Coordinates   ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

PC Board Mounted LEDs

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
T1									
1	Red	10	2.0	L20261-ND◆	1.10	22.33	64.60	142.50	5310F1
	Green	20	2.2	L20265-ND◆	1.10	22.33	64.60	142.50	5310F5
	Yellow	20	2.1	L20267-ND◆	1.10	22.33	64.60	142.50	5310F7
	Green	20	2.2	L20275-ND◆	1.10	22.33	64.60	142.50	5312F5
	Yellow	20	2.1	L20277-ND◆	1.10	22.33	64.60	142.50	5312F7
	Red	10	2.0	L20281-ND◆	1.10	22.33	64.60	142.50	5315F1
	Green	20	2.2	L20285-ND◆	1.10	22.33	64.60	142.50	5315F5
2	Red	10	2.0	L20151-ND◆	2.23	45.24	130.90	288.75	5360F1
	Green	20	2.2	L20155-ND◆	2.23	45.24	130.90	288.75	5360F5
3	Red	10	2.0	L20321-ND◆	.58	11.75	34.00	75.00	5600F1
	Green	20	2.2	L20325-ND◆	.58	11.75	34.00	75.00	5600F5
	Yellow	20	2.1	L20327-ND◆	.58	11.75	34.00	75.00	5600F7
	Red	10	5.0	L20331-ND◆	.84	17.04	49.30	108.75	5602F1-5V
	Amber	10	5.0	L20333-ND◆	.84	17.04	49.30	108.75	5602F3-5V
	Green	12	5.0	L20335-ND◆	.84	17.04	49.30	108.75	5602F5-5V
4	Red	20	1.8	L20191-ND◆	1.02	20.56	59.50	131.25	5608F1
	Green	20	2.3	L20195-ND◆	1.02	20.56	59.50	131.25	5608F5
	Yellow	20	2.2	L20197-ND◆	1.02	20.56	59.50	131.25	5608F7
5	Red	10	2.0	L20361-ND◆	.55	11.16	32.30	71.25	5650F1
	Green	20	2.2	L20365-ND◆	.55	11.16	32.30	71.25	5650F5
	Yellow	20	2.1	L20367-ND◆	.55	11.16	32.30	71.25	5650F7
	Red	2.0	1.8	L20371-ND◆	.70	14.10	40.80	90.00	5650F1LC
6	Red	10	2.0	L20401-ND◆	.90	18.21	52.70	116.25	5680F1;1
	Green	20	2.2	L20405-ND	.90	18.21	52.70	116.25	5680F5;5
	Yellow	20	2.1	L20407-ND◆	.90	18.21	52.70	116.25	5680F7;7
7	Red	10	2.2	L20411-ND◆	.90	18.21	52.70	116.25	6321F1
	Green	10	2.3	L20415-ND◆	.90	18.21	52.70	116.25	6321F5
	Yellow	10	2.2	L20417-ND◆	.90	18.21	52.70	116.25	6321F7
8	Red	10	2.0	L20421-ND◆	1.10	22.33	64.60	142.50	5322F1
	Green	20	2.2	L20425-ND◆	1.10	22.33	64.60	142.50	5322F5
	Yellow	20	2.1	L20427-ND◆	1.10	22.33	64.60	142.50	5322F7
	Red	10	2.0	L20431-ND◆	1.10	22.33	64.60	142.50	5320F1
	Yellow	20	2.1	L20437-ND◆	1.10	22.33	64.60	142.50	5320F7
	Red	10	2.0	L20441-ND	1.10	22.33	64.60	142.50	5321F1
9	Red	10	2.2	L2045111-ND	2.58	52.29	151.30	333.75	5693F1;1;1-A
	Green	10	2.3	L2045555-ND◆	2.58	52.29	151.30	333.75	5693F5;5;5-A
	Yellow	10	2.2	L2045777-ND◆	2.58	52.29	151.30	333.75	5693F7;7;7-A
10	Red	10	2.2	L20461111-ND◆	3.60	72.85	210.80	465.00	5694F1;1;1;1-A
	Green	10	2.3	L20465555-ND◆	3.60	72.85	210.80	465.00	5694F5;5;5;5-A
	Yellow	10	2.2	L20467777-ND◆	3.60	72.85	210.80	465.00	5694F7;7;7;-A
11	Red	10	2.0	L20448-ND◆	.90	18.21	52.70	116.25	553-0111
	Green	10	2.2	L20449-ND◆	.90	18.21	52.70	116.25	553-0122
	Yellow	10	2.1	L20450-ND	.90	18.21	52.70	116.25	553-0133
	Red/Green	20	1.8/2.1	L20451-ND◆	.90	18.21	52.70	116.25	553-0711
	Green/Yellow	30/20	2.1/2.8	L20452-ND◆	.90	18.21	52.70	116.25	553-0744
T 1 3/4									
12	Red	20	2.0	L20011-ND◆	.44	8.81	25.50	56.25	5300H1
	Green	20	2.2	L20015-ND◆	.44	8.81	25.50	56.25	5300H5
	Yellow	20	2.1	L20017-ND◆	.44	8.81	25.50	56.25	5300H7
	Red	10	5.0	L20021-ND◆	.84	17.04	49.30	108.75	5302H1-5V
	Amber	10	5.0	L20023-ND◆	.84	17.04	49.30	108.75	5302H3-5V
	Green	20	5.0	L20025-ND◆	.84	17.04	49.30	108.75	5302H5-5V
	Red	2	1.8	L20031-ND◆	.58	11.75	34.00	75.00	5300H1LC
	Green	2	1.8	L20035-ND◆	.58	11.75	34.00	75.00	5300H5LC
	Yellow	2	1.9	L20037-ND◆	.58	11.75	34.00	75.00	5300H7LC
	Red	35	3.0	L20041-ND◆	.75	15.28	44.20	97.50	5308H1
	Green	20	2.5	L20045-ND◆	.75	15.28	44.20	97.50	5308H5
	Yellow	20	2.1	L20047-ND◆	.75	15.28	44.20	97.50	5308H7
	Red/Green	10	2.2	L20048-ND◆	1.07	21.74	62.90	138.75	5300H1/5
13	Red	20	2.0	L20171-ND◆	.78	15.86	45.90	101.25	5306H1
	Amber	20	2.0	L20173-ND◆	.78	15.86	45.90	101.25	5306H3
	Green	20	2.2	L20175-ND◆	.78	15.86	45.90	101.25	5306H5
	Yellow	20	2.1	L20177-ND◆	.78	15.86	45.90	101.25	5306H7
14	Red	20	2.0	L20051-ND◆	.78	15.86	45.90	101.25	5307H1
	Green	20	2.2	L20055-ND◆	.78	15.86	45.90	101.25	5307H5
15	Red	20	2.0	L20061-ND◆	.78	15.86	45.90	101.25	5330H1
	Green	20	2.2	L20065-ND◆	.78	15.86	45.90	101.25	5330H5
	Yellow	20	2.2	L20067-ND◆	.78	15.86	45.90	101.25	5330H7
	Red	20	2.0	L20731-ND◆	.78	15.86	45.90	101.25	5331H1
	Green	20	2.1	L20735-ND◆	.78	15.86	45.90	101.25	5331H5
	Yellow	20	2.1	L20737-ND◆	.78	15.86	45.90	101.25	5331H7
16	Red	20	2.0	L20251-ND◆	1.19	24.09	69.70	153.75	5341H1
	Green	20	2.1	L20255-ND◆	1.19	24.09	69.70	153.75	5341H5
	Yellow	20	2.1	L20257-ND◆	1.19	24.09	69.70	153.75	5341H7
17	Red	20	2.0	L20311-ND◆	.61	12.34	35.70	78.75	5380H1
	Green	20	2.2	L20315-ND◆	.61	12.34	35.70	78.75	5380H5
	Yellow	20	2.1	L20317-ND◆	.61	12.34	35.70	78.75	5380H7
18	Red	20	2.0	L20161-ND	.67	13.51	39.10	86.25	5381H1
	Green	20	2.2	L20165-ND◆	.67	13.51	39.10	86.25	5381H5
	Yellow	20	2.1	L20167-ND	.67	13.51	39.10	86.25	5381H7
19	Red	20	2.0	L20351-ND	2.52	51.11	147.90	326.25	5640H1
	Green	20	2.2	L20355-ND◆	2.52	51.11	147.90	326.25	5640H5
	Yellow	20	2.1	L20357-ND◆	2.52	51.11	147.90	326.25	5640H7
20	Red	20	2.0	L20391-ND◆	1.39	28.20	81.60	180.00	5670H1;1
	Green	20	2.2	L20395-ND◆	1.39	28.20	81.60	180.00	5670H5;5
	Yellow	20	2.1	L20397-ND	1.39	28.20	81.60	180.00	5670H7;7
21	Red	20	2.0	L20491-ND◆	.78	15.86	45.90	101.25	5332H1
	Green	20	2.1	L20495-ND	.78	15.86	45.90	101.25	5332H5
	Yellow	20	2.1	L20497-ND	.78	15.86	45.90	101.25	5332H7
22	Red/Green	15	2.1	L20488-ND◆	1.94	39.36	113.90	251.25	5305H1/5
	Amber/Green	15	2.1	L205935-ND◆	1.94	39.36	113.90	251.25	5305H3/5
2mm									
23	Red	10	2.2	L20081-ND◆	.93	18.80	54.40	120.00	5350T1
	Green	10	2.3	L20085-ND◆	.93	18.80	54.40	120.00	5350T5
	Red	9.6	5.0	L20091-ND	1.04	21.15	61.20	135.00	5352T1-5V
	Amber	10	5.0	L20093-ND	1.04	21.15	61.20	135.00	5352T3-5V
	Green	10	5.0	L20095-ND	1.04	21.15	61.20	135.00	5352T5-5V
	Red	2	1.8	L20101-ND◆	1.10	22.33	64.60	142.50	5350T1LC
	Green	2	1.8	L20105-ND◆	1.10	22.33	64.60	142.50	5350T5LC
	Yellow	2	1.9	L20107-ND◆	1.10	22.33	64.60	142.50	5350T7LC

Fig. 1

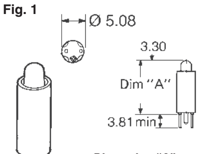

Dimension "A"
5310F Series = 14.73
5312F Series = 20.57
5315F Series = 13.97

Fig. 2

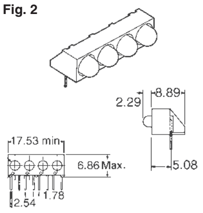

Fig. 3

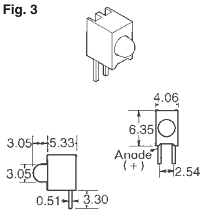

Fig. 4

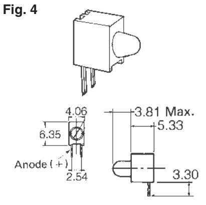

Clear Lens

Fig. 5

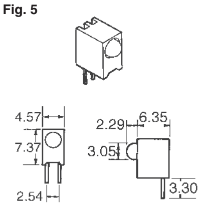

Fig. 6

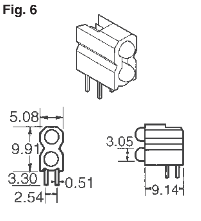

Fig. 7

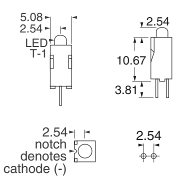

"Stackable"

Fig. 8

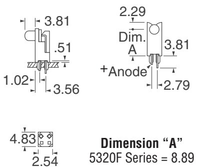

Dimension "A"
5320F Series = 8.89
5321F Series = 11.43
5322F Series = 6.35

Fig. 9

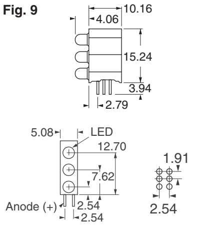

Fig. 10

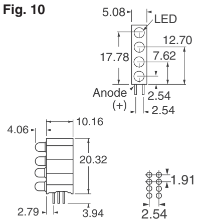

Fig. 11

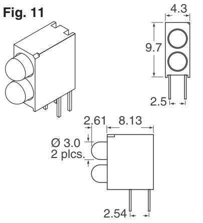

Fig. 12

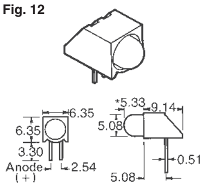

* 3.3 for Part No. L20001-ND

Fig. 13

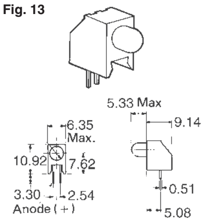

Fig. 14

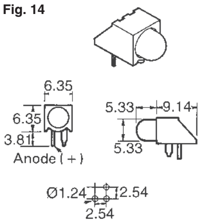

Fig. 15

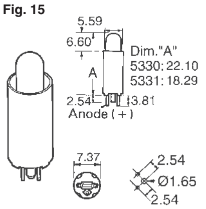

Fig. 16

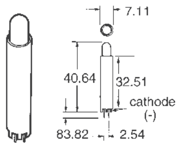

Fig. 17

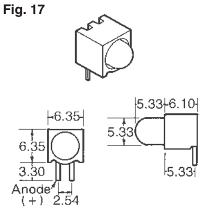

Fig. 18

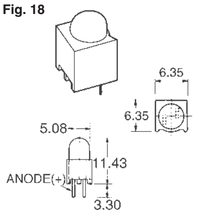

Fig. 19

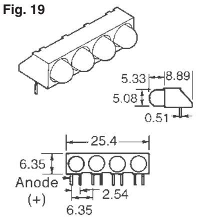

Fig. 20

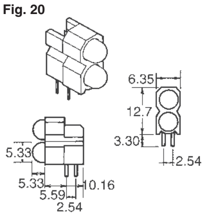

Fig. 21

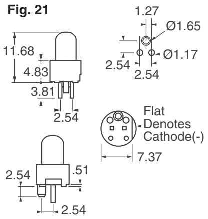

◆ **RoHS Compliant**

(Continued)

Chicago Miniature Lighting, LLC
Lighting the world since 1910

PC Board Mounted LEDs *(Cont.)*

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
23	Red	3.5	5.0	L20111-ND◆	1.10	22.33	64.60	142.50	5352T1-5VLC
	Amber	3.5	5.0	L20113-ND◆	1.10	22.33	64.60	142.50	5352T3-5VLC
	Green	3.5	5.0	L20115-ND	1.10	22.33	64.60	142.50	5352T5-5VLC
24	Red	10	2.2	L20121-ND◆	1.57	31.73	91.80	202.50	5370T1
	Green	10	2.3	L20125-ND◆	1.57	31.73	91.80	202.50	5370T5
	Red	9.5	5.0	L20131-ND◆	1.71	34.66	100.30	221.25	5372T1-5V
	Amber	10	5.0	L20133-ND◆	1.71	34.66	100.30	221.25	5372T3-5V
	Green	10	5.0	L20135-ND◆	1.71	34.66	100.30	221.25	5372T5-5V
	Red	2	1.8	L20141-ND◆	1.74	35.25	102.00	225.00	5370T1LC
	Green	2	1.8	L20145-ND	1.74	35.25	102.00	225.00	5370T5LC
	Yellow	2	1.9	L20147-ND	1.74	35.25	102.00	225.00	5370T7LC
	Red	3.5	5.0	L20291-ND◆	1.74	35.25	102.00	225.00	5372T1-5VLC
	Amber	3.5	5.0	L20293-ND◆	1.74	35.25	102.00	225.00	5372T3-5VLC
	Green	3.5	5.0	L20295-ND◆	1.74	35.25	102.00	225.00	5372T5-5VLC
Rectangular									
25	Red	20	2.1	L20541-ND◆	1.31	26.44	76.50	168.75	5636D1
	Green	20	2.1	L20545-ND◆	1.31	26.44	76.50	168.75	5636D5
	Yellow	20	2.2	L20547-ND	1.31	26.44	76.50	168.75	5636D7
26	Red	10	2.1	L20571-ND◆	6.26	126.90	367.20	810.00	5638D1

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 750	Chicago Miniature Part No.
PC Board Mount on Tape and Reel — RoHS Compliant										
27	Red	10	2.0	L60011CT-ND	1.09	9.30	77.50	L60011TR-ND	334.80	5655F1
	Green	20	2.2	L60015CT-ND	1.09	9.30	77.50	L60015TR-ND	334.80	5655F5

◆ ***RoHS Compliant***

Fig. 22

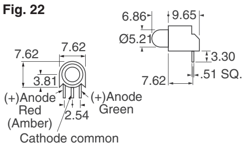

Fig. 23

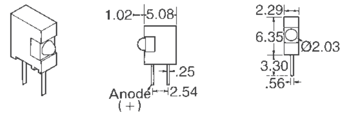

Fig. 24

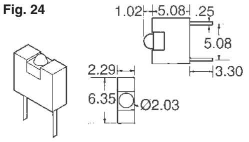

Fig. 25

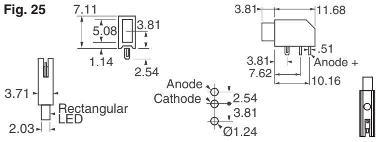

Fig. 26

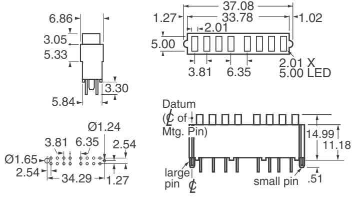

Fig. 27

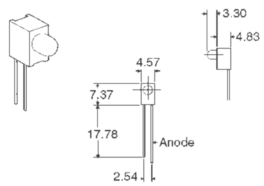

Panel Mount LED Assemblies

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	Chicago Miniature Part No.
1	Red	20	2.0	L10001-ND◆	1.33	27.03	78.20	172.50	5100H1
	Green	20	2.2	L10005-ND◆	1.33	27.03	78.20	172.50	5100H5
	Yellow	20	2.1	L10007-ND◆	1.33	27.03	78.20	172.50	5100H7
	Red	2	1.8	L10011-ND◆	1.71	34.66	100.30	221.25	5100H1LC
	Yellow	2	1.9	L10017-ND◆	1.71	34.66	100.30	221.25	5100H7LC
	Red	10	5.0	L10021-ND◆	1.86	37.60	108.80	240.00	5102H1-5V
	Green	12	5.0	L10025-ND◆	1.86	37.60	108.80	240.00	5102H5-5V
	Red/Green	20	2.2	L10008-ND◆	2.18	44.06	127.50	281.25	5100H1/5
2	Red	20	2.0	L10031-ND◆	1.22	24.68	71.40	157.50	5101H1
	Green	20	2.2	L10035-ND◆	1.22	24.68	71.40	157.50	5101H5
	Yellow	20	2.1	L10037-ND◆	1.22	24.68	71.40	157.50	5101H7
3	Red	10	2.0	L10041-ND◆	1.51	30.55	88.40	195.00	5110F1
	Green	20	2.2	L10045-ND◆	1.51	30.55	88.40	195.00	5110F5
	Yellow	20	2.1	L10047-ND◆	1.51	30.55	88.40	195.00	5110F7
	Red	2	1.8	L10051-ND◆	2.00	40.54	117.30	258.75	5110F1LC
	Yellow	2	1.9	L10057-ND◆	2.00	40.54	117.30	258.75	5110F7LC
4	Red	10	2.0	L10061-ND	.84	17.04	49.30	108.75	5111F1
	Green	20	2.2	L10065-ND◆	.84	17.04	49.30	108.75	5111F5
	Yellow	20	2.1	L10067-ND◆	.84	17.04	49.30	108.75	5111F7
5	Red	10	2.0	L10091-ND	2.06	41.71	120.70	266.25	5210F1
	Green	20	2.2	L10095-ND◆	2.06	41.71	120.70	266.25	5210F5
	Yellow	20	2.1	L10097-ND◆	2.06	41.71	120.70	266.25	5210F7
6	Red	20	2.0	L10071-ND◆	2.99	60.51	175.10	386.25	5400A1
	Green	20	2.1	L10075-ND◆	2.99	60.51	175.10	386.25	5400A5
	Yellow	20	2.1	L10077-ND	2.99	60.51	175.10	386.25	5400A7
7	Red	10	2.0	L50381-ND◆	3.80	76.96	222.70	491.25	3990A1
	Amber	10	2.0	L50383-ND◆	3.80	76.96	222.70	491.25	3990A3
	Green	20	2.2	L50385-ND◆	3.80	76.96	222.70	491.25	3990A5
	Yellow	20	2.1	L50387-ND◆	3.80	76.96	222.70	491.25	3990A7

Fig.	Dia. (mm)	Volts	Termination	Digi-Key Part No.	Pricing 1	25	100	Chicago Miniature Part No.
8	12.70	6	Wire	L5014□-ND	5.02	101.64	294.10	1091M□-6V
	12.70	12	Wire	L5015□-ND	5.02	101.64	294.10	1091M□-12V
	12.70	24	Wire	L5016□-ND◆	5.02	101.64	294.10	1091M□-24V
	12.70	12	4.75mm Terminal	L5017□-ND◆	5.34	108.10	312.80	1091QM□-12V
	12.70	24	4.75mm Terminal	L5018□-ND◆	5.34	108.10	312.80	1091QM□-24V
9	7.87	6	Wire	L5025□-ND◆	5.08	102.81	297.50	2191L□-6V
	7.87	12	Wire	L5026□-ND◆	5.08	102.81	297.50	2191L□-12V
	7.87	24	Wire	L5027□-ND◆	5.08	102.81	297.50	2191L□-24V
	7.87	12	4.75mm Terminal	L5028□-ND	5.34	108.10	312.80	2191QL□-12V
	7.87	24	4.75mm Terminal	L5029□-ND◆	5.34	108.10	312.80	2191QL□-24V
10	7.87	6	Wire	L5030□-ND	5.08	102.81	297.50	2191U□-6V
	7.87	12	Wire	L5031□-ND◆	5.08	102.81	297.50	2191U□-12V
	7.87	24	Wire	L5032□-ND	5.08	102.81	297.50	2191U□-24V
	7.87	12	4.75mm Terminal	L5033□-ND	5.34	108.10	312.80	2191QU□-12V
	7.87	24	4.75mm Terminal	L5034□-ND◆	5.34	108.10	312.80	2191QU□-24V

For □ in the part number, choose one of the following: **1**=Red; **5**=Green; **7**=Yellow ◆ ***RoHS Compliant***

Fig. 1

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long. **Housing:** Black nylon. **Anode:** (+): Red lead. **Anode for L10008-ND:** (+): Yellow lead for red light, blue lead for green light.

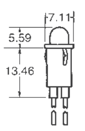

Fig. 2

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

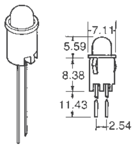

Fig. 3

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long, stripped 4.57/8.13mm. **Anode** (+): Red lead. **Housing:** Black nylon.

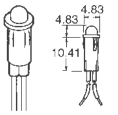

Fig. 4

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

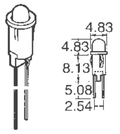

Fig. 5

Mounting: Will snap-fit into 4.75/4.88mm diameter hole in panel .51/2.46mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Polycarbonate.

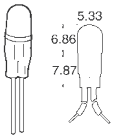

Fig. 6

Mounting: Will snap-fit into 7.92/8.05mm dia. hole in panel .51/2.49mm thick. **Wire Leads:** 24 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Natural nylon.

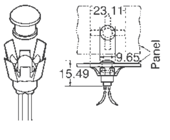

Fig. 7

Mounting: Will snap-fit into 5.51/5.61mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** White nylon.

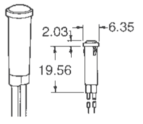

Fig. 8

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal

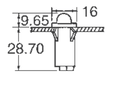

Fig. 9

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

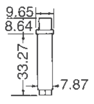

Fig. 10

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

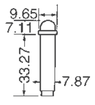

Flashers

RoHS COMPLIANT

Series 5100H Flasher

Features: • Built-in flashing circuit • Flashing rate: 1.5 - 2.5 Hz • No external resistor required **Mounting:** Will snap fit in 6.32/6.45mm dia. hole in panels .79/1.57mm. **Wire Leads:** No. 24 AWG, 152.40mm insulated, bonded strands, stripped 12.70mm. **Anode (+):** Red Lead **Housing:** Black Nylon

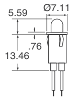

Color	Iv mcd	Current mA	V_F (V)	Digi-Key Part No.	Pricing 1	25	100	Chicago Miniature Part No.
Red	12.5	20	13	L20691-ND	2.70	54.64	158.10	5100H1FL
Yellow	12.5	20	13	L20697-ND	2.70	54.64	158.10	5100H7FL

T1 Modular LEDs

Features: • Mount up to 12 LEDs in one operation • Unitized vibration resistant package • Black housing for high contrast background • Wide viewing angle • Vertical or horizontal positioning • Interlocking construction • Hi brite diffused LEDs • Speeds mounting for increased productivity and reduced cost

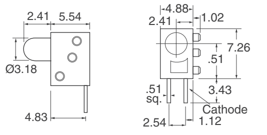

Mount from 1 to 12 circuit board indicators, as a single unit. Unique snap-together feature.

LED/Lens	Forward Voltage Typ.	If=(mA)	Min. V_R	Max. I_F (mA)	Typ. I_O (mcd)	View Angle	Digi-Key Part No.	Pricing 1	25	100	Chicago Miniature Part No.
Red/Clear	2.2	20	5.0	30	60.0	40°	CMC01R-ND	.67	13.51	39.10	CMC01R
Yellow/Clear	2.2	20	5.0	20	60.0	40°	CMC01Y-ND◆	.67	13.51	39.10	CMC01Y
Green/Clear	2.2	20	5.0	30	60.0	40°	CMC01G-ND◆	.67	13.51	39.10	CMC01G
Red/Diff.	2.0	20	5.0	30	20.0	90°	CMW01R-ND◆	.78	15.86	45.90	CMW01R
Yellow/Diff.	2.1	20	5.0	30	12.5	90°	CMW01Y-ND◆	.78	15.86	45.90	CMW01Y
Green/Diff.	2.2	20	5.0	30	12.5	90°	CMW01G-ND	.78	15.86	45.90	CMW01G

◆ ***RoHS Compliant***

Chicago Miniature Lighting, LLC
Lighting the world since 1910

Optical Light Pipes for SMD-Style LEDs

Fig. 1

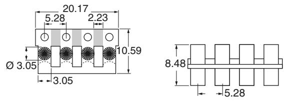

Fig. 2

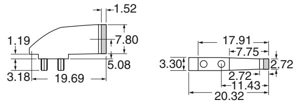

Fig. 3

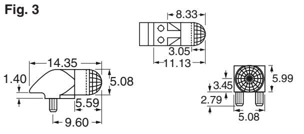

Fig. 4

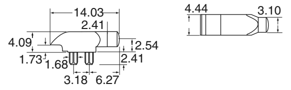

Fig. 5

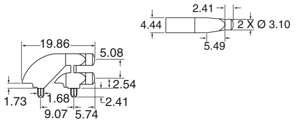

Fig. 6

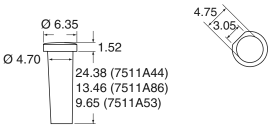

Fig. 7

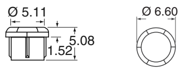

Fig. 8

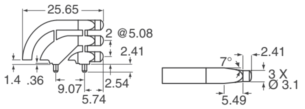

Fig. 9 – Flexible Light Pipe

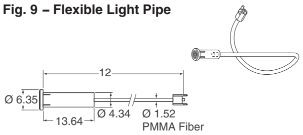

Fig. 10 – SMD

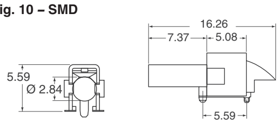

Fig.	Color	Digi-Key Part No.	Price Each 1	25	100	250	Chicago Miniature Part No.
1	Clear	L71200-ND	2.32	1.88	1.36	1.20	7640D2
2	Clear	L71300-ND◆	.55	.45	.33	.29	7610D2
3	Clear	L71400-ND◆	1.33	1.09	.79	.69	7511G2
4	Clear	L70510-ND◆	.84	.69	.50	.44	7511A85
5	Clear	L70520-ND◆	.93	.76	.55	.48	7511A62
6	Clear	L70540-ND◆	.84	.69	.50	.44	7511A44
6	Clear	L70550-ND◆	.73	.59	.43	.38	7511A86
6	Clear	L70560-ND◆	.81	.66	.48	.42	7511A53
7	Clear	L70570-ND◆	.77	.63	.46	.40	7511A18
8	Clear	L70580-ND	.84	.69	.50	.44	7511B11
9	Clear	L70590-ND◆	2.64	2.14	1.55	1.37	7512FPR-305
10	Clear	L70591CT-ND◆†	2.64	2.27	1.89	—	7520A10-TRLF
10	Clear	L70591TR-ND◆§	1029.00/700				7520A10-TRLF

◆ ***RoHS Compliant*** § Tape and Reel † Cut Tape

PC Board Mount T-1 LEDs

Fig. 1

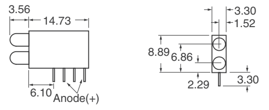

Fig. 2

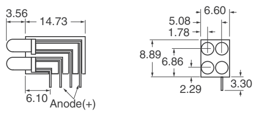

Fig.	Color	Typ. mcd	Forward Voltage mA	Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
1	Red	10.0	10	2.2	L206011-ND	1.94	1.58	1.14	5682F1;1
	Green	8.5	10	2.3	L206055-ND◆	1.94	1.58	1.14	5682F5;5
2	Red	10.0	10	2.2	L206111-ND◆	3.60	2.92	2.11	5684F1;1;1;1
	Green	8.5	10	2.3	L206555-ND◆	3.60	2.92	2.11	5684F5;5;5;5
	Yellow	10.0	10	2.2	L206777-ND	3.60	2.92	2.11	5684F7;7;7;7

◆ ***RoHS Compliant***

High Brightness LED

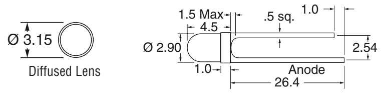

Dia. (mm)	Color	Wave-length (nm)	V_f Typ (V)	I_f Typ (mA)	I_v Typ (mcd)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
3	Blue	430	5	20	100	L14006-ND	1.89	1.53	1.11	CMD264-UBD

LED Lenses

RoHS Compliant Parts Available

These LED lenses provide quick, economical panel mounting as well as ESD protection. Molded in Fresnel rings provide a wide viewing angle.

Fig. 1

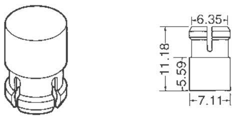

6.35mm Dia. for T1-3/4 LEDs

Fig. 2

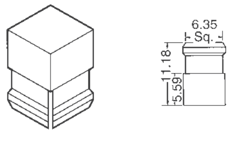

6.35mm Dia. for T1-3/4 LEDs

Fig. 3

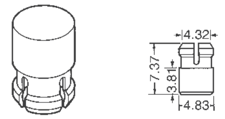

4.37mm Dia. for T-1 LEDs

Fig. 4

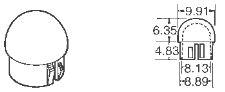

9.91mm Dia. for T1-3/4 LEDs

Fig.	Digi-Key Part No.	Price Each 1	25	100	250	Chicago Miniature Part No.
1	L3000☐-ND	.38	.31	.23	.20	431☐
2	L3001☐-ND	.49	.40	.29	.26	432☐
3	L3002☐-ND	.41	.33	.24	.21	433☐
4	L3003☐-ND	.49	.40	.29	.26	434☐

For ☐ in the part number, choose one of the following: **1**=Red; **2**=Clear; **3**=Amber; **5**=Green; **6**=Blue; **7**=Yellow

Circuit Board Indicators

Color	Typ. mcd	Rated Current mA	Forward Voltage Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
Red	6.3	10	2.0	L20651-ND◆	.90	.73	.53	5340H1
Green	10	10	2.2	L20655-ND◆	.90	.73	.53	5340H5
Yellow	6.3	10	2.2	L20657-ND◆	.90	.73	.53	5340H7
Red	2.3	2	1.8	L20661-ND	.99	.80	.58	5340H1LC
Green	2.3	2	1.8	L20665-ND◆	.99	.80	.58	5340H5LC
Yellow	2.1	2	1.9	L20667-ND	.99	.80	.58	5340H7LC

◆ ***RoHS Compliant***

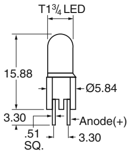

Bright•White™ LEDs

Peak Forward Current: • Surface Mount: 100mA • Through-Hole: 80mA **Continuous Forward Current:** • Surface Mount: 30mA • Through-Hole: 25mA **Emitted Color:** White **Lens Color:** Water Clear

SMD Package

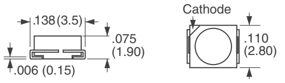

T1-3/4 Package

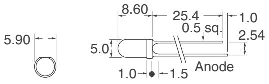

Pkg. Type	V_t Typ.	mcd Typ.	I_f (mA) Typ.	View Angle	Digi-Key Part No.	Price Each 1	10	100	T & R§ Pricing 2,000	Chicago Miniature Part No.
SMD	3.6	170	20	100°	CMD67-21UWCCT-ND†	5.25	4.50	3.75	1875.00/M	CMD67-21UWC/TR8
T1-3/4	3.75	2300	20	20°	CMD333UWC-ND◆	4.35	3.90	2.55	—	CMD333UWC

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount LEDs

Fig.	Wave-length	Color	Lens Color	TYP mcd	Forward Voltage TYP	@ mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Chicago Miniature Part No.
CMD11-21 Series — RoHS Compliant													
1	640	Red	Clear	6	2.0	20	L62001CT-ND	.39	.33	.28	2,000	165.00/M	CMD11-21VRC/TR8
	570	Green	Clear	7.5	2.1	20	L62005CT-ND	.39	.33	.28	2,000	165.00/M	CMD11-21VGC/TR8
	585	Yellow	Clear	6	2.0	20	L62007CT-ND	.39	.33	.28	2,000	165.00/M	CMD11-21VYC/TR8
	660	Super Red	Clear	17	1.7	20	L62011CT-ND	.39	.33	.28	2,000	165.00/M	CMD11-21SRC/TR8
CMDA1 Series													
1	660	Red	Clear	33.6	1.7	20	L71501CT-ND◆	.32	.27	.23	2,500	135.00/M	CMDA1DR7A1Z
	580	Yellow	Clear	6.0	2.2	20	L71502CT-ND	.32	.27	.23	—	—	CMDA1CY7A1Z
	570	Yellow	Clear	24.0	2.1	20	L71503CT-ND◆	.32	.27	.23	2,500	135.00/M	CMDA1AY7A1Z
	560	Green	Clear	12.0	2.1	20	L71504CT-ND◆	.32	.27	.23	2,500	135.00/M	CMDA1CG7A1Z
CMD12-21 Series — RoHS Compliant													
2	640	Red	Clear	5	2.0	20	L62101CT-ND	.39	.33	.28	2,000	165.00/M	CMD12-21VRC/TR8
	570	Green	Clear	8.8	2.1	20	L62105CT-ND	.39	.33	.28	2,000	165.00/M	CMD12-21VGC/TR8
	585	Yellow	Clear	3	2.0	20	L62107CT-ND	.39	.33	.28	2,000	165.00/M	CMD12-21VYC/TR8
	660	Super Red	Clear	12.4	1.7	20	L62111CT-ND	.49	.42	.35	2,000	210.00/M	CMD12-21SRC/TR8
	570	Ultra Green	Clear	14.9	2.1	20	L62115CT-ND	.49	.42	.35	2,000	210.00/M	CMD12-21UGC/TR8
CMDA7 Series — RoHS Compliant													
2	580	Yellow	Clear	3.0	2.1	20	L71510CT-ND	.27	.23	.19	—	—	CMDA7CY7A1Z
	570	Yellow	Clear	8.8	2.1	20	L71511CT-ND	.27	.23	.19	—	—	CMDA7AY7A1Z
CMD15-21 Series — RoHS Compliant													
3	640	Red	Clear	6	2.0	20	L62201CT-ND	.35	.30	.25	2,000	150.00/M	CMD15-21VRC/TR8
	570	Green	Clear	10	2.1	20	L62205CT-ND	.32	.27	.23	2,000	135.00/M	CMD15-21VGC/TR8
	430	Ultra Blue	Clear	45	4.9	20	L62206CT-ND	3.43	2.94	2.45	2,000	1470.00/M	CMD15-21UBC/TR8
	581	Yellow	Clear	6	2.0	20	L62207CT-ND	.39	.33	.28	2,000	165.00/M	CMD15-21VYC/TR8
	660	Super Red	Clear	15	1.7	20	L62211CT-ND	.46	.39	.33	2,000	195.00/M	CMD15-21SRC/TR8
	565	Ultra Green	Clear	12	2.1	20	L62215CT-ND	.42	.36	.30	2,000	180.00/M	CMD15-21UGC/TR8
	640	Red	Diff	4	2.0	20	L62301CT-ND	.28	.24	.20	2,000	120.00/M	CMD15-21VRD/TR8
	570	Green	Diff	6.5	2.1	20	L62305CT-ND	.28	.24	.20	2,000	120.00/M	CMD15-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62307CT-ND	.28	.24	.20	2,000	120.00/M	CMD15-21VYD/TR8
CMD15-22 Series — RoHS Compliant													
4	660/565	Red/Grn.	Clear	15.0/12.0	1.7/2.1	20	L6221115CT-ND	.64	.55	.46	2,000	273.00/M	CMD15-22RUGC/TR8
CMD17-21 Series — RoHS Compliant													
5	640	Red	Clear	13	2.0	20	L62401CT-ND	.28	.24	.20	3,000	120.00/M	CMD17-21VRC/TR8
	570	Green	Clear	35	2.1	20	L62405CT-ND	.28	.24	.20	3,000	120.00/M	CMD17-21VGC/TR8
	585	Yellow	Clear	12	2.0	20	L62407CT-ND	.28	.24	.20	3,000	120.00/M	CMD17-21VYC/TR8
	660	Super Red	Clear	45	1.7	20	L62411CT-ND	.49	.42	.35	3,000	210.00/M	CMD17-21SRC/TR8
	570	Ultra Green	Clear	15.0	2.1	20	L62415CT-ND	.32	.27	.23	3,000	135.00/M	CMD17-21UGC/TR8
	640	Red	Diff	6.0	2.0	20	L62501CT-ND	.32	.27	.23	3,000	135.00/M	CMD17-21VRD/TR8
	570	Green	Diff	7.0	2.1	20	L62505CT-ND	.32	.27	.23	3,000	135.00/M	CMD17-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62507CT-ND	.39	.33	.28	3,000	165.00/M	CMD17-21VYD/TR8
CMDA5 Series													
6	660	Red	Clear	11.7	1.7	20	L71505CT-ND◆	.32	.27	.23	4,000	135.00/M	CMDA5DR7D1Z
	580	Yellow	Clear	3.7	2.2	20	L71506CT-ND◆	.32	.27	.23	4,000	135.00/M	CMDA5CY7D1Z
	570	Yellow	Clear	11.7	2.1	20	L71507CT-ND◆	.32	.27	.23	—	—	CMDA5AY7D1Z
	560	Green	Clear	6.4	2.1	20	L71508CT-ND◆	.32	.27	.23	4,000	135.00/M	CMDA5CG7D1Z
7	637	Red	Diff	90	1.9	20	L71514CT-ND	.35	.30	.25	4,000	150.00/M	CMDA5AR7D1S
	630	Hi. Eff. Red	Diff	10	2.1	20	L71516CT-ND◆	.27	.23	.19	—	—	CMDA5BR7D1S
	595	Amber	Diff	90	1.9	20	L71517CT-ND	.35	.30	.25	4,000	150.00/M	CMDA5DY7D1S
CMD28-21 Series													
8	640	Red	Clear	3	2.0	20	L62601CT-ND	.39	.33	.28	2,000	165.00/M	CMD28-21VRC/TR8
	570	Green	Clear	5.5	2.1	20	L62605CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD28-21VGC/TR8
	640	Red	Clear	0.16	2.0	1	L62701CT-ND◆	.31	.27	.23	2,000	133.50/M	CMD28-21VRC/TR8/T1
	570	Green	Clear	0.16	2.1	1	L62705CT-ND◆	.31	.27	.23	2,000	133.50/M	CMD28-21VGC/TR8/T1
CMD67-21 Series													
9	640	Red	Clear	10	2.0	20	L62801CT-ND	.56	.48	.40	2,000	240.00/M	CMD67-21VRC/TR8
	570	Green	Clear	25	2.1	20	L62805CT-ND◆	.42	.36	.30	2,000	180.00/M	CMD67-21VGC/TR8
	585	Yellow	Clear	10	2.0	20	L62807CT-ND◆	.49	.42	.35	—	—	CMD67-21VYC/TR8
	660	Super Red	Clear	40	1.7	20	L62811CT-ND◆	.63	.54	.45	2,000	270.00/M	CMD67-21SRC/TR8
	660	Ultra Red	Clear	62	1.7	20	L628111CT-ND◆‡	.88	.75	.63	2,000	375.00/M	CMD67-21URC/TR8
CMD67-22 Series — RoHS Compliant													
10	640/570	Red/Grn.	Clear	10.0/25.0	2.0/2.1	20	L628015CT-ND	.90	.78	.65	2,000	385.50/M	CMD67-22VRVGC/TR8
	660/565	Red/Grn.	Clear	40.0/25.0	1.7/2.1	20	L6281115CT-ND	.90	.78	.65	2,000	385.50/M	CMD67-22SRUGC/TR8
CMD91-21/TR7 Series													
11	640	Red	Clear	80	2.0	20	L62901CT-ND	.42	.36	.30	1,000	180.00	CMD91-21VRC/TR7
	565	Green	Clear	50	2.1	20	L62905CT-ND◆	.42	.36	.30	1,000	180.00	CMD91-21VGC/TR7
	585	Yellow	Clear	30	2.0	20	L62907CT-ND◆	.42	.36	.30	1,000	180.00	CMD91-21VYC/TR7
	660	Super Red	Clear	170	1.7	20	L62911CT-ND◆	.49	.42	.35	1,000	210.00	CMD91-21SRC/TR7
CMD91-21/TR9 Series													
12	640	Red	Clear	80	2.0	20	L63001CT-ND	.42	.36	.30	—	—	CMD91-21VRC/TR9
	565	Green	Clear	50	2.1	20	L63005CT-ND	.42	.36	.30	1,000	180.00	CMD91-21VGC/TR9
	585	Yellow	Clear	30	2.0	20	L63007CT-ND	.49	.42	.35	—	—	CMD91-21VYC/TR9
	660	Super Red	Clear	170	1.7	20	L63011CT-ND◆	.49	.42	.35	1,000	210.00	CMD91-21SRC/TR9
CMD91-21/TR10 Series													
13	640	Red	Clear	80	2.0	20	L63101CT-ND◆	.33	.29	.24	1,000	142.50	CMD91-21VRC/TR10
	565	Green	Clear	50	2.1	20	L63105CT-ND◆	.33	.29	.24	1,000	142.50	CMD91-21VGC/TR10
	585	Yellow	Clear	30	2.0	20	L63107CT-ND	.33	.29	.24	1,000	142.50	CMD91-21VYC/TR10
CMD93-21/F8 Series — RoHS Compliant													
14	640	Red	Clear	12	2.0	20	L63201CT-ND	.56	.48	.40	—	—	CMD93-21VRC/TR8
	570	Green	Clear	25	2.1	20	L63205CT-ND	.49	.42	.35	2,000	210.00/M	CMD93-21VGC/TR8
CMD93-22/F8 Series — RoHS Compliant													
15	660/570	Red/Grn.	Clear	40.0/20.0	1.7/2.1	20	L632115CT-ND	.81	.70	.58	1,000	348.00	CMD93-22SRVGC/TR8
CMD95-21/TR7 Series — RoHS Compliant													
16	640	Red	Clear	25	2.0	20	L63301CT-ND	.42	.36	.30	1,000	180.00	CMD95-21VRC/TR7
	570	Green	Clear	19.5	2.1	20	L63305CT-ND	.46	.39	.33	1,000	195.00	CMD95-21VGC/TR7
	585	Yellow	Clear	25	2.0	20	L63307CT-ND	.46	.39	.33	1,000	195.00	CMD95-21VYC/TR7
	660	Super Red	Clear	100	1.7	20	L63311CT-ND	.49	.42	.35	1,000	210.00	CMD95-21SRC/TR7
CMD95-21/TR9 Series													
17	640	Red	Clear	25	2.0	20	L63401CT-ND◆	.42	.36	.30	1,000	180.00	CMD95-21VRC/TR9
	570	Green	Clear	19.5	2.1	20	L63405CT-ND	.46	.39	.33	—	—	CMD95-21VGC/TR9
CMD95-21/TR10 Series — RoHS Compliant													
18	640	Red	Clear	25	2.0	20	L63501CT-ND	.37	.32	.27	1,000	157.50	CMD95-21VRC/TR10
	570	Green	Clear	19.5	2.1	20	L63505CT-ND	.35	.30	.25	1,000	150.00	CMD95-21VGC/TR10
	660	Super Red	Clear	100	1.7	20	L63511CT-ND	.38	.33	.28	1,000	163.50	CMD95-21SRC/TR10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

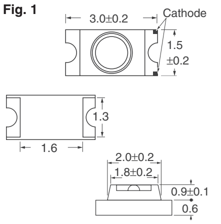

Fig. 2

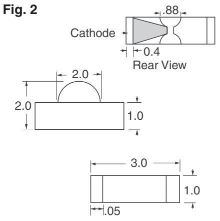

Fig. 3 — 1206

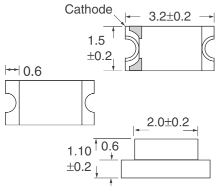

Fig. 4

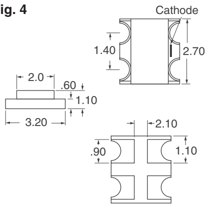

Fig. 5 — 0805

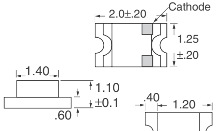

Fig. 6 — 0805

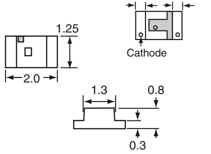

Fig. 7 — 0805

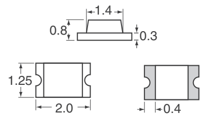

Fig. 8

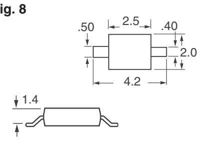

Fig. 9

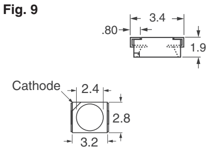

‡ Anode mark on L628111CT-ND

Fig. 10

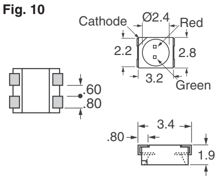

Fig. 11

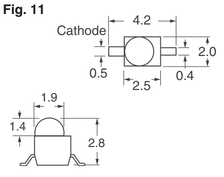

Fig. 12

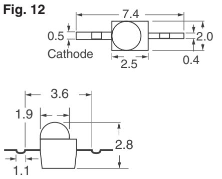

Fig. 13

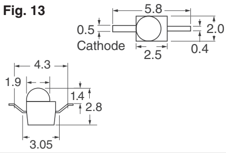

Fig. 14

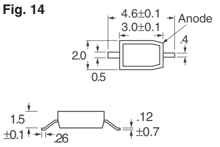

Fig. 15

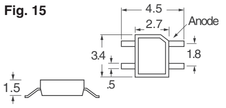

Fig. 16

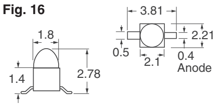

Fig. 17

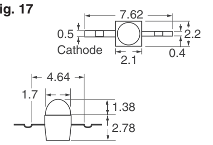

Fig. 18

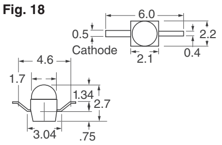

Chicago Miniature Lighting, LLC
Lighting the world since 1910

Sub-Miniature Surface Mount LED Assemblies

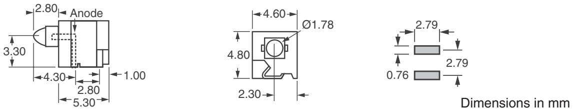

Dimensions in mm

Color	Typical (mcd)	Forward Voltage Typical (V)	Forward Voltage Typical (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing† 750	Chicago Miniature Part No.
Red	5.0	2.2	10	L60041CT-ND◆	1.65	1.41	1.18	507.60	6255T1
Yellow	3.8	2.2	10	L60047CT-ND	1.65	1.41	1.18	—	6255T7
Red	5.0	5.0	10	L60061CT-ND	1.96	1.68	1.40	604.80	6255T1-5V
Amber	5.0	5.0	10	L60063CT-ND	1.96	1.68	1.40	—	6255T3-5V
Red	0.8	1.8	2	L60051CT-ND	1.65	1.41	1.18	—	6255T1LC
Green	1.2	1.8	2	L60055CT-ND◆	1.65	1.41	1.18	507.60	6255T5LC
Yellow	0.6	1.9	2	L60057CT-ND	1.65	1.41	1.18	507.60	6255T7LC
Red	2.0	5.0	4	L60071CT-ND	1.96	1.68	1.40	—	6255T1-5VLC
Amber	4.0	5.0	4	L60073CT-ND	1.96	1.68	1.40	—	6255T3-5VLC

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Right Angle Surface Mount LEDs

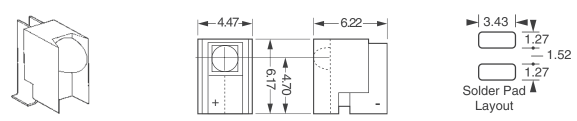

Dimensions in mm

Color	Wave-length	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing† 1,000	Chicago Miniature Part No.
Amber	603	10	2.0	L60003CT-ND	1.86	1.59	1.33	—	6200T3
Green	565	10	2.3	L60005CT-ND	1.86	1.59	1.33	795.00	6200T5
Yellow	585	10	2.2	L60007CT-ND	1.86	1.59	1.33	—	6200T7
Red	635	2	1.8	L60101CT-ND◆	1.86	1.59	1.33	795.00	6200T1LC
Green	565	2	1.8	L60105CT-ND◆	1.86	1.59	1.33	795.00	6200T5LC
Yellow	583	2	1.9	L60107CT-ND	1.86	1.59	1.33	795.00	6200T7LC
Red	635	9.6	5.0	L60201CT-ND	2.17	1.86	1.55	—	6202T1-5V
Amber	583	10	5.0	L60203CT-ND	2.17	1.86	1.55	—	6202T3-5V
Green	565	10	5.0	L60205CT-ND	2.17	1.86	1.55	930.00	6202T5-5V
Red	635	3.5	5.0	L60301CT-ND	2.17	1.86	1.55	930.00	6202T1-5VLC

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount LEDs

Dimensions in mm

Source (Dice)	Luminous Intensity Typ. (mcd)	Forward Volt. Typ. (V)	Forward Volt. Typ. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Tape and Reel† Pricing	Chicago Miniature Part No.
Fig. 1 — 7011X Series										
Red/Green	17.0	1.7	20	L61015CT-ND	1.02	.87	.73	2,500	435.00/M	7011X1/5
Green/Yellow	7.5	2.1	20	L61057CT-ND	1.02	.87	.73	2,500	435.00/M	7011X5/7
Fig. 2 — 7012X Series										
Red	11.7	1.7	20	L61101CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X1
Green	6.4	2.1	20	L61105CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X5
Yellow/Green	11.7	2.1	20	L61107CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X7
Yellow	3.7	2.2	20	L61113CT-ND	.49	.42	.35	4,000	210.00/M	7012X13

† For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Fig. 1

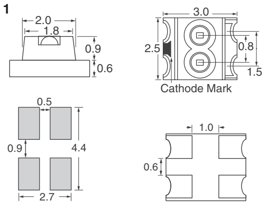

Fig. 2

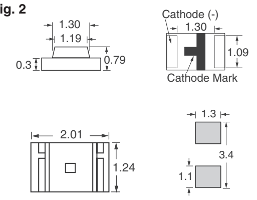

Light-Line™ LED Strip Light

RoHS

Features: • 18" (450mm) LED strip light complete with mounting base, screw holes and lens • 2 versions: Cool White and Warm White

Applications: • General illumination • Signage • Retail lighting • Furniture lighting • Fluorescent replacement

Specifications: • Power consumption: 12 watts • 12 volts • Current draw: 1A • Lifetime: minimum 50K hours at 70% Lumens • Operating Conditions: 45°C Maximum

Color	Output (Lumens)	Digi-Key Part No.	Price Each 1	25	100	Chicago Miniature Part No.
Warm White	400	ILL6A08A-ND	101.26	91.50	82.35	ILL6A08A

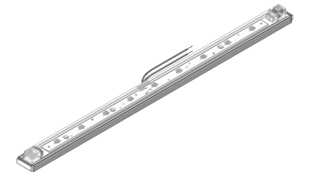

OSRAM
Opto Semiconductors

LEDs

Digi-Reel®

Dimensions in mm

Fig. 1 — SMD

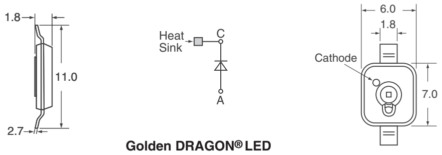

Golden DRAGON® LED

Fig. 2 — P-LCC-2

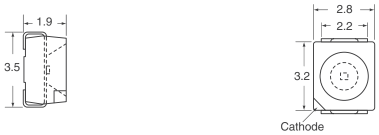

TOPLED® and Hyper TOPLED®

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Osram Part No.
1	Amber	Clear	617	2.2	400	6,000 @ 400	120	475-1000-1-ND	3.48	29.00	232.00	—	—	LA W57B-FYGY-24
2	Blue	Clear	470	3.6	20	98 @ 20	120	475-1007-1-ND	1.29	10.73	85.80	—	—	LB T67C-P2R1-35
10A	Orange	Diffused	606	1.8	15	50 @ 10	160	475-1057-1-ND	.21	1.73	13.80	—	—	LO L89K-J2L1-24
RoHS Compliant														
2	Yellow	Clear	586	2.0	30	11.3 @ 10	120	475-2561-1-ND	.21	1.73	13.86	—	—	LY T670-J1L2-26-0-10-R18-Z
	Yellow	Clear	587	1.8	20	9.8 @ 2	120	475-2798-1-ND	.16	1.30	10.36	2,000	77.72/M	LY T67K-J2L1-26-Z
	Yellow	Clear	587	2.0	30	12.55 @ 10	120	475-2673-1-ND	.22	1.87	14.97	2,000	112.28/M	LY T670-K1L2-26-Z
	Yellow	Clear	587	2.0	30	267.5 @ 20	120	475-2799-1-ND	.23	1.88	15.07	2,000	113.04/M	LY T686-S1T1-26-Z
	Yellow	Clear	587	2.1	50	627.5 @ 30	120	475-2800-1-ND	.34	2.80	22.43	2,000	168.20/M	LY T68B-T2V1-26-Z
	Yellow	Clear	591	1.8	20	14 @ 2	120	475-2562-1-ND	.15	1.23	9.87	2,000	74.01/M	LY T67K-J2M1-26-0-2-R18-Z
	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2563-1-ND	.20	1.70	13.58	—	—	LY T686-Q2T1-26-0-20-R18-Z
	Amber	Clear	615	2.0	30	280 @ 20	120	475-1130-1-ND	.20	1.69	13.50	—	—	LA T676-R1S2-1-Z
	Amber	Clear	622	2.0	30	223 @ 20	120	475-1373-1-ND	.19	1.61	12.86	—	—	LA T676-Q2T1-1-0-20-R18-Z
	Amber	Clear	617	2.1	50	900 @ 30	120	475-1176-1-ND	.30	2.54	20.33	2,000	152.49/M	LA T68B-T2V1-24-Z
	Amber	Clear	615	2.0	30	267.5 @ 20	120	475-2714-1-ND	.23	1.95	15.56	8,000	116.70/M	LA T676-S1T1-1-Z
	Orange	Clear	610	1.8	20	17.6 @ 2	120	475-2490-1-ND	.15	1.23	9.87	—	—	LO T67K-K1M2-24-0-2-R18-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray ∆ Reverse Mount † Measured in Kalvin Units

(Continued)

Dimensions in mm

Fig. 3 — P-LCC-4

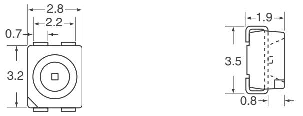

Power TOPLED® and Multi TOPLED®

Fig. 4 — P-LCC-2

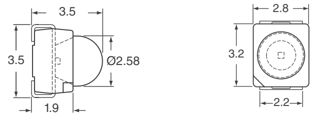

TOPLED® w/Lens

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Osram Part No.
2	Orange	Clear	606	2.0	30	12.55 @ 10	120	475-2743-1-ND	.22	1.87	14.98	2,000	112.34/M	LO T670-K1L2-24-Z
	Orange	Clear	606	2.0	30	267.5 @ 20	120	475-2744-1-ND	.21	1.78	14.27	2,000	107.04/M	LO T676-S1T1-24-Z
	Orange	Clear	606	2.0	30	355 @ 20	120	475-1131-1-ND	.19	1.61	12.86	—	—	LO T676-Q2T1-24-Z
	Orange	Clear	606	1.8	20	12.55 @ 2	120	475-2745-1-ND	.16	1.30	10.36	2,000	77.72/M	LO T67K-K1L2-24-Z
	Orange	Clear	606	1.8	20	28 @ 2	120	475-1178-1-ND	.16	1.33	10.66	2,000	79.92/M	LO T67K-L1M2-24-Z
	Super-Red	Clear	645	2.1	50	370 @ 30	120	475-2515-1-ND	.29	2.43	19.44	2,000	145.77/M	LS T67B-S1U1-1-0-30-R18-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2514-1-ND	.19	1.61	12.86	2,000	96.44/M	LS T676-P2S1-1-0-20-R18-Z
	Super-Red	Clear	645	2.0	30	180 @ 20	120	475-1133-1-ND	.20	1.69	13.50	2,000	101.27/M	LS T676-Q1R2-1-Z
	Super-Red	Clear	630	1.8	20	11.2 @ 2	120	475-1180-1-ND	.15	1.26	10.05	2,000	75.35/M	LS T67K-J1K2-1-Z
	Super-Red	Clear	630	1.8	20	12.55 @ 2	120	475-2766-1-ND	.16	1.29	10.33	2,000	77.51/M	LS T67K-K1L2-1-Z
	Super-Red	Clear	628	2.0	30	12.55 @ 10	120	475-2765-1-ND	.20	1.68	13.44	2,000	111.78/M	LS T670-K1L2-1-Z
	Super-Red	Clear	633	2.0	30	168 @ 20	120	475-2683-1-ND	.21	1.78	14.27	2,000	107.04/M	LS T676-R1S1-1-Z
	Super-Red	Clear	633	2.1	50	420 @ 30	120	475-2684-1-ND	.31	2.62	20.99	2,000	157.43/M	LS T67B-T1U1-1-Z
	Hyper-Red	Clear	645	1.75	30	39.2 @ 10	120	475-2703-1-ND	.26	2.19	17.53	2,000	131.49/M	LH T674-M2P1-1-Z
	Blue	Clear	466	3.1	20	35 @ 10	120	475-1387-1-ND	.78	6.54	52.33	2,000	392.45/M	LB T673-L2P1-35-0-10-R18-Z
	Blue	Clear	465	3.6	20	140 @ 20	120	475-1389-1-ND	.81	6.73	53.82	2,000	403.65/M	LB T67C-P2S1-35-0-20-R18-Z
	Blue	Clear	470	3.6	20	140 @ 20	120	475-1135-1-ND	.85	7.06	56.51	2,000	423.84/M	LB T67C-P2R1-35-Z
	Blue	Clear	471	3.1	20	39.2 @ 10	120	475-2678-1-ND	.85	7.06	56.51	2,000	423.84/M	LB T673-M2P1-35-Z
	Blue	Clear	470	3.6	20	157 @ 20	120	475-2723-1-ND	.87	7.27	58.13	2,000	435.95/M	LB T67C-Q2S1-35-Z
	Green	Clear	572	2.0	30	22 @ 10	120	475-1411-1-ND	.22	1.80	14.42	2,000	108.17/M	LG T671-K2N1-1-0-10-R18-Z
	Green	Clear	572	2.0	30	79 @ 20	120	475-1412-1-ND	.24	2.02	16.15	3,000	121.10/M	LG T676-P1Q2-24-0-20-R18-Z
	Green	Clear	570	2.0	30	19.6 @ 10	120	475-2732-1-ND	.20	1.68	13.44	2,000	100.79/M	LG T670-L1M2-1-Z
	Green	Clear	570	2.0	30	24.75 @ 10	120	475-2733-1-ND	.23	1.95	15.58	2,000	116.82/M	LG T671-L2N1-1-Z
	Green	Clear	570	1.8	20	6.28 @ 2	120	475-2679-1-ND	.18	1.49	11.95	2,000	89.61/M	LG T67K-H2K1-24-Z
	True Green	Clear	529	3.0	20	130 @ 10	120	475-2530-1-ND	.94	7.85	62.79	2,000	470.93/M	LT T673-N2S1-35-0-10-R18-Z
	True Green	Clear	523	3.5	20	562 @ 20	120	475-2531-1-ND	.92	7.66	61.30	2,000	459.72/M	LT T67C-S2V1-35-0-20-R18-Z
	True Green	Clear	528	3.5	20	560 @ 20	120	475-1136-1-ND	.97	8.05	64.36	2,000	482.70/M	LT T67C-S2U1-35-Z
	True Green	Clear	528	3.5	20	627.5 @ 20	120	475-2685-1-ND	.99	8.27	66.20	2,000	496.49/M	LT T67C-T2V1-35-Z
	True Green	Clear	529	3.0	20	125.5 @ 10	120	475-2672-1-ND	1.05	8.71	69.70	2,000	522.72/M	LT T673-Q1R2-25-Z
	Verde Green	Clear	503	3.5	20	445 @ 20	120	475-2535-1-ND	1.08	8.97	71.76	2,000	538.20/M	LV T67C-S1U2-35-0-20-R18-Z
	Verde Green	Clear	505	3.5	20	710 @ 20	120	475-1250-1-ND	1.16	9.69	77.50	2,000	581.25/M	LV T67C-T1U2-35-Z
	Pure Green	Clear	557	2.0	30	4.7 @ 10	120	475-2500-1-ND	.24	1.98	15.84	2,000	118.77/M	LP T670-G2J2-1-0-10-R18-Z
	Pure Green	Clear	560	1.8	20	1.26 @ 2	120	475-2752-1-ND	.18	1.53	12.25	2,000	91.85/M	LP T67K-E1F2-25-Z
	Pure Green	Clear	560	1.8	20	2.8 @ 2	120	475-1179-1-ND	.19	1.57	12.59	2,000	94.46/M	LP T67K-F1G2-25-Z
	Pure Green	Clear	560	2.0	30	28 @ 20	120	475-1132-1-ND	.28	2.35	18.84	2,000	141.29/M	LP T676-L1M2-25-Z
	Pure Green	Clear	560	2.0	30	5.33 @ 10	120	475-2751-1-ND	.26	2.13	17.08	2,000	128.09/M	LP T670-H2J2-1-Z
	Yellow	Clear	587	1.8	20	22.4 @ 2	120	475-1181-1-ND	.16	1.33	10.66	2,000	79.92/M	LY T67K-K2M1-26-Z
	Yellow	Clear	587	2.0	30	267.5 @ 20	120	475-2665-1-ND	.21	1.78	14.27	2,000	107.04/M	LY T676-S1T1-26-Z
	White	Diffused	5600†	3.1	20	135 @10	120	475-2542-1-ND	.81	6.73	53.82	2,000	403.65/M	LW T673-P1S1-5K8L-0-10-R18-Z
	White	Diffused	5600†	3.1	20	135 @10	120	475-2668-1-ND	.88	7.37	59.00	2,000	442.47/M	LW T673-Q2R2-5K8L-Z
	White	Diffused	5600†	3.6	20	532.5 @ 20	120	475-2670-1-ND	.86	7.18	57.45	2,000	430.91/M	LW T67C-T2U2-5K8L-Z
	White	Diffused	5600†	3.6	20	562 @ 20	120	475-2544-1-ND	.78	6.54	52.33	2,000	392.45/M	LW T67C-S2V1-5K8L-0-20-R18-Z
	White	Diffused	5600†	3.6	20	392 @ 20	120	475-1138-1-ND	.82	6.87	54.94	2,000	412.07/M	LW T67C-S2U1-5K8L-Z
	White	Diffused	5600†	3.6	20	392 @ 20	120	475-2785-1-ND	.85	7.06	56.51	2,000	423.84/M	LW T6SC-S2U1-3K6L-Z
	Red	Clear	634	2.05	50	925 @ 20	120	475-2820-1-ND ***NEW!***	.27	2.24	17.94	2,000	134.55/M	LR T68F-U1AA-1-1-Z
	Green	Clear	523	3.2	15	105.5 @ 10	120	475-2824-1-ND ***NEW!***	.91	7.59	60.70	2,000	455.24/M	LT T67S-Q1R1-24-Z
	White	Diffused	6500†	3.2	50	— @ 20	120	475-2829-1-ND ***NEW!***	.90	7.48	59.80	2,000	448.50/M	LUW T6SG-V2AB-4N7Q-Z
	Yellow	Clear	597	2.2	50	737.5 @ 20	120	475-2835-1-ND ***NEW!***	.27	2.24	17.94	2,000	134.55/M	LY T68F-T2V2-35-1-Z
3	Orange	Clear	610	2.0	30	11.3 @ 10	120	475-2492-1-ND	.32	2.71	21.64	—	—	LOG T671-JL-1-0+KM-1-0-10-R18-Z
	Green	Clear	572	2.0	30	17.6 @ 10	120							
	Orange	Clear	610	2.0	30	11.3 @ 10	120	475-2494-1-ND	.32	2.71	21.64	—	—	LOP T670-JL-1-0+GJ-1-0-10-R18-Z
	Pure Green	Clear	557	2.0	30	4.5 @ 10	120							
	Super-Red	Clear	645	2.0	30	98 @ 20	120	475-2522-1-ND	.37	3.11	24.89	2,000	186.65/M	LSG T676-P7Q7-1-0+N7P7-24-0-20-R18-ZB
	Green	Clear	572	2.0	30	62.8 @ 20	120							
	Super-Red	Clear	633	2.1	50	315 @ 30	120	475-2770-1-ND	.52	4.33	34.65	2,000	259.89/M	LSY T67B-S1T2+T1U2-1-Z
	Yellow	Clear	587	2.1	50	495 @ 30	120							
	Super-Red	Clear	645	2.0	50	196 @ 30	120	475-2525-1-ND	.37	3.11	24.88	—	—	LSY T675-R1S2-1-0+S1U2-35-0-30-R18-Z
	Yellow	Clear	594	2.0	50	445 @ 30	120							
	Super-Red	Clear	645	2.0	30	98 @ 20	120	475-2526-1-ND	.37	3.11	24.89	2,000	186.65/M	LSY T676-P2R1-1-0+Q2S1-35
	Yellow	Clear	591	2.0	30	157 @ 20	120							
	Super-Red	Clear	645	2.1	50	295 @ 30	120	475-2527-1-ND	.49	4.09	32.68	2,000	245.13/M	LSY T67B-R2T2-1-0+S2U2-26-0-30-R18-Z
	Yellow	Clear	594	2.1	50	467 @ 30	120							
	Amber	Diffused	628	2.0	50	315 @ 20	120	475-1376-1-ND	1.52	12.66	101.31	2,000	759.84/M	LATBT66B-ST-1+TU-35+QR-35-20-R18-ZB
	Green	Diffused	617	3.5	20	590 @ 20	120							
	Blue	Diffused	465	3.6	20	175.5 @ 20	120							
	Amber	Diffused	622	2.0	30	196 @ 20	120	475-1377-1-ND	1.12	9.34	74.75	2,000	560.63/M	LATBT66C-RS-1+ST7-35+P7Q7-35-20-R18-ZB
	Green	Diffused	617	3.5	20	540 @ 20	120							
	Blue	Diffused	465	3.6	20	168 @ 20	120							

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray ∆ Reverse Mount † Measured in Kalvin Units *(Continued)*

Dimensions in mm

Fig. 5 — P-LCC-4

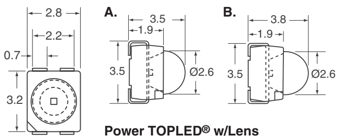

Power TOPLED® w/Lens

Fig. 6 — SMD

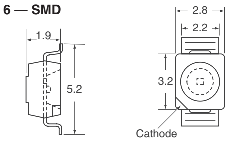

TOPLED® RG and Hyper TOPLED® RG

Fig. 7 — SMD

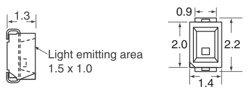

Mini TOPLED® and Hyper Mini TOPLED®

Fig. 8 — SMD

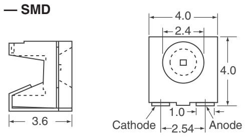

SIDELED® and Hyper SIDELED®

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
3	Amber	Clear	624	2.2	70	878 @ 50	120	475-1370-1-ND	.26	2.17	17.34	—	—	LA E67B-T2AA-24-1-50-R18-Z
	Amber	Clear	624	2.15	70	—	30	475-1280-1-ND	.47	3.92	31.40	2,000	235.47/M	LA E63F-EAFA-24-1-50-R33-Z
	Amber	Clear	617	2.2	70	1,400 @ 50	120	475-1139-1-ND	.28	2.34	18.73	2,000	140.46/M	LA E67B-U2AA-24-1-Z
	Super-Red	Clear	645	2.2	70	562 @ 50	120	475-2505-1-ND	.26	2.21	17.64	2,000	132.32/M	LS E67B-S2V1-1-1-50-R18-Z
	Super-Red	Clear	633	2.15	70	1,570 @ 50	120	475-1322-1-ND	.43	3.55	28.41	2,000	213.05/M	LS E6SF-V2BA-1-1-Z
	Super-Red	Clear	633	2.2	70	900 @ 50	120	475-1185-1-ND	.29	2.38	19.05	2,000	142.91/M	LS E67B-T2V1-1-1-Z
	Super-Red	Clear	633	2.2	70	392 @ 50	120	475-2760-1-ND	.28	2.32	18.52	2,000	138.93/M	LS E67B-S2U1-1-1-Z
	Red	Clear	625	2.15	70	1,350 @ 50	120	475-1314-1-ND	.38	3.18	25.42	2,000	190.62/M	LR E6SF-V2AB-1-1-Z
	Orange	Clear	606	2.1	70	2,950 @ 50	120	475-2605-1-ND	.43	3.55	28.41	2,000	213.05/M	LO E6SF-ABCB-24-1-Z
	Orange	Clear	606	2.2	70	1,400 @ 50	120	475-1184-1-ND	.26	2.21	17.64	2,000	132.32/M	LO E67B-U2AA-24-1-Z
	Yellow	Clear	594	2.2	70	878 @ 50	120	475-2550-1-ND	.26	2.21	17.64	2,000	132.32/M	LY E67B-T2AA-26-1-50-R18-Z
	Yellow	Clear	590	2.15	70	1,350 @ 50	120	475-2791-1-ND	.40	3.30	26.40	2,000	198.03/M	LY E6SF-V2AB-35-1-Z
	Yellow	Clear	587	2.2	70	1,400 @ 50	120	475-1186-1-ND	.29	2.38	19.05	2,000	142.91/M	LY E67B-U2AA-26-1-Z
	Yellow	Clear	587	2.2	70	627.5 @ 50	120	475-2675-1-ND	.28	2.32	18.52	2,000	138.93/M	LY E67B-T2V1-26-1-Z
	True Green	Clear	520	3.8	30	1,120 @ 30	120	475-1279-1-ND	.90	7.48	59.80	2,000	448.50/M	LT E67C-T1V2-35-0-30-R18-Z
	True Green	Clear	525	3.8	30	785 @ 30	120	475-2687-1-ND	.97	8.05	64.40	2,000	483.00/M	LT E67C-U1V2-35-Z
	Blue	Clear	464	3.4	50	392 @ 30	120	475-1304-1-ND	.90	7.48	59.80	—	—	LB E6SG-S2U1-35-Z
	Blue	Clear	469	3.9	30	247.5 @ 30	120	475-2719-1-ND	.95	7.88	63.06	2,000	472.95/M	LB E67C-R2T1-35-Z
	White	Diffused	5600†	3.9	30	700 @ 30	120	475-1187-1-ND	.81	6.73	53.82	2,000	403.65/M	LW E67C-T1V2-5K8L-1-Z
	White	Diffused	5600†	3.9	50	980 @ 30	120	475-2538-1-ND	.81	6.73	53.82	2,000	403.65/M	LW E6SC-U2AA-5K8L-1-Z
	White	Diffused	3000†	3.4	50	1,255 @ 30	120	475-2608-1-ND	.94	7.85	62.79	1,000	470.93	LCW E6SG-V1AB-4R9T-Z
	White	Diffused	2700†	3.4	50	1255 @ 30	120	475-2609-1-ND	.94	7.85	62.79	1,000	470.93	LCW E6SG-V1AB-4U9X-S-Z
	White	Diffused	4500†	3.4	50	1,570 @ 30	120	475-2610-1-ND ***NEW!***	.94	7.85	62.79	1,000	470.93	LCW E6SG-V2BA-4J8K-Z
	White	Diffused	4000†	3.4	50	1,570 @ 30	120	475-2611-1-ND	.94	7.85	62.79	1,000	470.93	LCW E6SG-V2BA-4L8N-Z
	White	Diffused	3500†	3.4	50	1,570 @ 30	120	475-2612-1-ND	.94	7.85	62.79	1,000	470.93	LCW E6SG-V2BA-4O9Q-Z
	White	Diffused	6500†	3.3	50	2,100 @ 30	120	475-2842-1-ND ***NEW!***	.98	8.15	65.21	2,000	489.05/M	LUW E6SG-ABBB-4N7Q-Z
	White	Diffused	6500†	3.3	50	2,100 @ 30	120	475-2843-1-ND ***NEW!***	.99	8.24	65.93	2,000	494.48/M	LUW E6SG-ABBB-5P6Q-1-Z
4	Pure Green	Clear	557	2.0	50	125.5 @ 30	60	475-2702-1-ND	.58	4.81	38.50	2,000	288.77/M	LP T655-Q1R2-25-Z
5A	Amber	Clear	624	2.2	70	2,335 @ 50	60	475-1369-1-ND	.35	2.92	23.32	—	—	LA E65B-AACA-24-1-50-R33-Z
	Amber	Clear	617	2.3	70	2,240 @ 50	120	475-1197-1-ND	.34	2.80	22.43	2,000	168.20/M	LA E67F-AABA-24-1-Z
	Amber	Clear	617	2.3	70	5,600 @ 50	60	475-1174-1-ND	.49	4.04	32.34	2,000	242.54/M	LA E65F-CADA-24-1-Z
	Amber	Clear	617	2.15	70	6,275 @ 50	60	475-1299-1-ND	.47	3.92	31.40	2,000	235.47/M	LA E65F-CBEA-24-1-Z
	Amber	Clear	617	2.2	70	2,675 @ 50	60	475-2711-1-ND	.38	3.15	25.19	2,000	188.91/M	LA E65B-BACA-24-1-Z
	Super-Red	Clear	633	2.15	70	3,920 @ 50	60	475-1321-1-ND	.47	3.92	31.40	2,000	235.47/M	LS E65F-BBDA-1-Z
	Super-Red	Clear	633	2.2	70	2,800 @ 50	60	475-1265-1-ND	.35	2.92	23.32	2,000	174.92/M	LS E65B-V1BB-1-1-50-R33-Z
	Super-Red	Clear	633	2.2	70	1,255 @ 50	60	475-2759-1-ND	.37	3.06	24.49	2,000	183.66/M	LS E65B-V1AB-1-1-Z
	True Green	Clear	525	3.8	30	4,950 @ 30	20	475-2773-1-ND	1.07	8.88	71.04	2,000	532.82/M	LT E63C-CADB-35-L-Z
	True Green	Clear	525	3.8	30	4,500 @ 30	20	475-1143-1-ND	1.04	8.63	69.07	2,000	518.03/M	LT E63C-BACB-35-L-Z
	Verde Green	Clear	501	3.8	30	2,035 @ 30	20	475-2534-1-ND	1.08	8.97	71.76	2,000	538.20/M	LV E63C-ABDA-35-0-30-R33-Z
	Verde Green	Clear	503	3.8	30	3,550 @ 30	20	475-1144-1-ND	1.12	9.34	74.75	2,000	560.63/M	LV E63C-ABCA-35-L-Z
	Verde Green	Clear	503	3.8	30	3,920 @ 30	20	475-2778-1-ND	1.15	9.57	76.59	2,000	574.43/M	LV E63C-BBDA-35-L-Z
	Yellow	Clear	594	2.2	70	2,335 @ 50	60	475-2549-1-ND	.35	2.92	23.32	2,000	174.92/M	LY E65B-AACA-26-1-50-R33-Z
	Yellow	Clear	587	2.2	70	2,800 @ 50	60	475-1189-1-ND	.36	3.00	24.02	2,000	180.17/M	LY E65B-AABB-26-1-Z
	Yellow	Clear	587	2.2	70	2,675 @ 50	60	475-2674-1-ND	.38	3.15	25.19	2,000	188.91/M	LY E65B-BACA-26-1-Z
	Yellow	Clear	590	2.15	70	3,370 @ 50	60	475-2790-1-ND	.45	3.74	29.90	2,000	224.25/M	LY E65F-BBCB-35-1-Z
	Yellow	Clear	590	2.15	70	4,200 @ 50	60	475-1335-1-ND	.47	3.92	31.40	2,000	235.47/M	LY E65F-CADA-46-1-Z
	Blue	Clear	469	3.9	30	840 @ 30	20	475-2686-1-ND	1.14	9.49	75.90	2,000	569.25/M	LB E63C-U2V2-35-L-Z
	Blue	Clear	464	3.9	30	435 @ 30	20	475-1381-1-ND	1.08	8.97	71.76	2,000	538.20/M	LB E63C-T2V2-35-0-30-R33-Z
5B	Amber	Clear	617	2.2	70	4,700 @ 50	30	475-1190-1-ND	.35	2.92	23.32	2,000	174.92/M	LA E63B-CBEA-24-1-Z
	Amber	Clear	617	2.15	70	12,700 @ 50	30	475-1298-1-ND	.47	3.92	31.40	2,000	235.47/M	LA E63F-EBGA-24-1-Z
	Super-Red	Clear	633	2.15	70	7,950 @ 50	30	475-1320-1-ND	.47	3.92	31.40	2,000	235.47/M	LS E63F-DBFA-1-Z
	Super-Red	Clear	633	2.2	70	2,525 @ 50	30	475-1191-1-ND	.35	2.92	23.32	2,000	174.92/M	LS E63B-BBCB-1-1-Z
	Yellow	Clear	587	2.2	70	4,700 @ 50	30	475-1192-1-ND	.35	2.92	23.32	2,000	174.92/M	LY E63B-CBEA-26-1-Z
	Yellow	Clear	590	2.15	70	8,400 @ 50	30	475-2789-1-ND	.45	3.74	29.90	2,000	224.25/M	LY E63F-DBEB-35-1-Z
	Yellow	Clear	590	2.15	70	8,650 @ 50	30	475-1334-1-ND	.49	4.11	32.89	2,000	246.68/M	LY E63F-EAFA-46-1-Z
6	Amber	Clear	622	2.0	30	223 @ 20	120	475-1374-1-ND	.24	2.02	16.15	2,000	121.10/M	LA T776-Q2T1-1-0-20-R18-Z
	Amber	Clear	615	2.0	30	267.5 @ 20	120	475-2715-1-ND	.27	2.24	17.92	2,000	134.42/M	LA T776-S1T1-1-Z
	Amber	Clear	615	2.0	30	280 @ 20	120	475-1145-1-ND	.25	2.12	16.95	2,000	127.16/M	LA T776-R1S2-1-Z
	Blue	Clear	471	3.1	20	39.2 @ 10	120	475-2697-1-ND	1.09	9.08	72.66	2,000	544.94/M	LB T773-M2P1-35-Z
	Blue	Clear	466	3.1	20	55 @ 20	120	475-1390-1-ND	1.01	8.41	67.28	2,000	504.57/M	LB T773-L2P1-35-0-10-R18-Z
	Blue	Clear	465	3.5	20	13.5 @ 10	120	475-2724-1-ND	.69	5.72	45.76	—	—	LB T776-K2L2-1-Z
	Orange	Clear	606	1.8	20	19.6 @ 2	120	475-2747-1-ND	.23	1.94	15.53	2,000	116.45/M	LO T77K-L1M2-24-Z
	Orange	Clear	606	2.0	30	12.55 @ 10	120	475-2746-1-ND	.24	1.98	15.82	2,000	118.68/M	LO T770-K1L2-24-Z
	Orange	Clear	606	2.0	30	267.5 @ 20	120	475-2698-1-ND	.27	2.24	17.90	2,000	146.72/M	LO T776-S1T1-24-Z
	True Green	Clear	529	3.0	20	125.5 @ 10	120	475-2777-1-ND	1.05	8.73	69.87	2,000	524.06/M	LT T773-Q1R2-35-Z
	True Green	Clear	527	3.0	20	205 @ 20	120	475-1237-1-ND	1.03	8.60	68.77	2,000	515.78/M	LT T773-N2S1-25-0-10-R18-Z
	Pure Green	Clear	560	2.0	30	5.33 @ 10	120	475-2753-1-ND	.28	2.33	18.63	2,000	139.73/M	LP T770-H2J2-1-Z
	Pure Green	Clear	560	2.4	30	28 @ 20	120	475-1147-1-ND	.32	2.69	21.51	2,000	161.30/M	LP T776-L1M2-25-Z
	Green	Clear	570	2.0	30	19.6 @ 10	120	475-2734-1-ND	.25	2.05	16.39	2,000	135.08/M	LG T770-L1M2-1-Z
	Green	Clear	572	2.0	30	17 @ 10	120	475-1413-1-ND	.23	1.90	15.18	2,000	123.44/M	LG T770-K1M2-1-0-10-R18-Z
	Super-Red	Clear	630	1.8	20	12.55 @ 2	120	475-2767-1-ND	.20	1.64	13.14	2,000	98.54/M	LS T77K-K1L2-1-Z
	Super-Red	Clear	633	2.0	30	168 @ 20	120	475-2699-1-ND	.24	2.03	16.26	2,000	121.98/M	LS T776-R1S1-1-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

(Continued)

Dimensions in mm

Fig. 9 — SMD

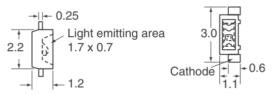

Micro SIDELED® and Hyper SIDELED®

Fig. 10 — SMD 0603

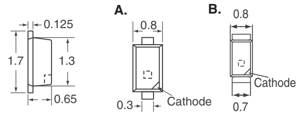

SmartLED®

Fig. 11 — SMD

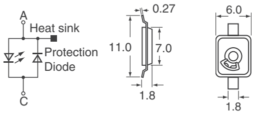

Golden DRAGON® LED and Platinum DRAGON® LED

Fig. 12 — P-LCC-6

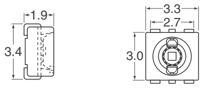

Advanced Power TOPLED®

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing	Osram Part No.
6	Super-Red	Clear	633	2.0	30	180 @ 20	120	475-1148-1-ND	.23	1.92	15.38	2,000	115.38/M	LS T776-Q1R2-1-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2517-1-ND	.22	1.83	14.65	2,000	109.89/M	LS T776-P2S1-1-0-20-R18-Z
	Super-Red	Clear	643	1.8	20	11.3 @ 2	120	475-2518-1-ND	.18	1.52	12.16	2,000	91.23/M	LS T77K-J1L2-1-0-2-R18-Z
	Yellow	Clear	587	1.8	20	15.7 @ 2	120	475-2802-1-ND	.20	1.64	13.14	2,000	98.54/M	LY T77K-K2M1-26-Z
	Yellow	Clear	587	2.0	30	280 @ 20	120	475-1149-1-ND	.25	2.12	16.93	2,000	126.99/M	LY T776-R1S2-26-Z
	Yellow	Clear	587	2.0	30	267.5 @ 20	120	475-2801-1-ND	.27	2.24	17.90	2,000	134.24/M	LY T776-S1T1-26-Z
	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2564-1-ND	.24	2.02	16.13	—	—	LY T776-Q2T1-26-0-20-R18-Z
	White	Diffused	5600†	3.1	20	135 @ 10	120	475-2700-1-ND	1.05	8.73	69.87	2,000	524.06/M	LW T773-Q2R2-5K8L-Z
	White	Diffused	5600†	3.1	20	135 @ 10	120	475-2545-1-ND	.96	8.04	64.29	2,000	482.15/M	LW T773-P1S1-5K8L-0-10-R18-Z
7	Amber	Clear	622	2.0	30	223 @ 20	120	475-1371-1-ND	.19	1.61	12.86	3,000	96.44/M	LA M676-Q2T1-1-0-20-R18-Z
	Amber	Clear	615	2.0	30	224 @ 20	120	475-1150-1-ND	.20	1.69	13.50	3,000	101.27/M	LA M676-Q2S1-1-Z
	Amber	Clear	615	2.0	30	247.5 @ 20	120	475-2680-1-ND	.21	1.74	13.89	3,000	104.15/M	LA M676-R2T1-1-Z
	Orange	Clear	610	2.0	30	8.8 @ 10	120	475-2483-1-ND	.18	1.47	11.78	—	—	LO M670-H2L1-24-0-10-R18-Z
	Orange	Clear	610	2.0	30	223 @ 20	120	475-2484-1-ND	.19	1.61	12.86	—	—	LO M676-Q2T1-24-0-20-R18-Z
	Orange	Clear	606	1.8	20	15.7 @ 2	120	475-2689-1-ND	.16	1.37	10.98	3,000	82.35/M	LO M67K-K2M1-24-Z
	Orange	Clear	606	2.0	30	9.8 @ 10	120	475-2688-1-ND	.21	1.75	14.02	—	—	LO M670-J2L1-24-Z
	Orange	Clear	606	2.0	30	224 @ 20	120	475-1152-1-ND	.20	1.69	13.50	3,000	101.27/M	LO M676-Q2S1-24-Z
	Orange	Clear	606	2.0	30	247.5 @ 20	120	475-2742-1-ND	.21	1.74	13.89	3,000	104.15/M	LO M676-R2T1-24-Z
	Super-Red	Clear	635	2.0	30	8.8 @ 10	120	475-2508-1-ND	.19	1.60	12.79	—	—	LS M670-H2L1-1-0-10-R18-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2509-1-ND	.19	1.61	12.86	3,000	96.44/M	LS M676-P2S1-1-0-20-R18-Z
	Super-Red	Clear	630	1.8	20	8.8 @ 2	120	475-2510-1-ND	.16	1.35	10.76	3,000	80.73/M	LS M67K-H2L1-1-0-2-R18-Z
	Super-Red	Clear	630	1.8	20	9.8 @ 2	120	475-2691-1-ND	.17	1.45	11.62	3,000	87.18/M	LS M67K-J2L1-1-Z
	Super-Red	Clear	633	2.0	30	140 @ 20	120	475-1153-1-ND	.20	1.69	13.50	3,000	101.27/M	LS M676-P2R1-1-Z
	Super-Red	Clear	633	2.0	30	157 @ 20	120	475-2690-1-ND	.21	1.74	13.89	3,000	104.15/M	LS M676-Q2S1-1-Z
	Yellow	Clear	591	1.8	20	11.3 @ 2	120	475-2555-1-ND	.16	1.35	10.76	3,000	80.73/M	LY M67K-J1L2-26-0-2-R18-Z
	Yellow	Clear	587	1.8	20	7.85 @ 2	120	475-2694-1-ND	.17	1.41	11.30	3,000	84.77/M	LY M67K-J1K2-26-Z
	Yellow	Clear	587	2.0	30	224 @ 20	120	475-1154-1-ND	.20	1.69	13.50	3,000	101.27/M	LY M676-Q2S1-26-Z
	Yellow	Clear	587	2.0	30	247.5 @ 20	120	475-2676-1-ND	.21	1.74	13.89	3,000	104.15/M	LY M676-R2T1-26-Z
	Blue	Clear	471	3.2	20	28 @ 10	120	475-1155-1-ND	.85	7.06	56.51	3,000	423.84/M	LB M673-L1M2-35-Z
	Blue	Clear	428	3.5	20	11.3 @ 10	120	475-1386-1-ND	.63	5.26	42.06	—	—	LB M676-J1L2-1-0-10-R18-Z
	Blue	Clear	466	3.1	20	28 @ 10	120	475-1385-1-ND	.81	6.73	53.82	3,000	403.65/M	LB M673-L1N2-35-0-10-R18-Z
	Blue	Clear	471	3.1	20	31.5 @ 10	120	475-2681-1-ND	.87	7.27	58.13	3,000	435.95/M	LB M673-M1N2-35-Z
	Green	Clear	570	1.8	20	4.95 @ 2	120	475-2730-1-ND	.19	1.57	12.59	3,000	94.46/M	LG M67K-H1J2-24-Z
	Green	Clear	570	2.4	30	90 @ 20	120	475-1151-1-ND	.28	2.33	18.63	3,000	139.73/M	LG M676-N2Q1-24-Z
	Green	Clear	572	1.8	20	4.5 @ 2	120	475-1406-1-ND	.17	1.46	11.66	3,000	87.47/M	LG M67K-G1J2-24-0-2-R18-Z
	True Green	Clear	529	3.0	20	180 @ 10	120	475-1156-1-ND	.92	7.66	61.30	3,000	459.72/M	LT M673-N1R2-25-Z
	True Green	Clear	529	3.0	20	98 @ 10	120	475-2775-1-ND	.99	8.27	66.20	3,000	496.49/M	LT M673-P2R1-25-Z
	Pure Green	Clear	557	2.0	30	3.7 @ 10	120	475-2496-1-ND	.21	1.75	14.02	—	—	LP M670-G1J1-1-0-10-R18-Z
	Pure Green	Clear	560	1.8	20	1.57 @ 2	120	475-2750-1-ND	.21	1.78	14.21	3,000	106.58/M	LP M67K-E2G1-25-Z
	Pure Green	Clear	562	2.0	40	39.2 @ 30	120	475-2497-1-ND	.46	3.82	30.54	—	—	LP M675-M2P1-25-0-30-R18-Z
	Pure Green	Clear	562	2.0	30	15.7 @ 20	120	475-2498-1-ND	.34	2.83	22.60	3,000	169.53/M	LP M676-K2M1-25-0-20-R18-Z
	White	Diffused	5600†	3.1	20	108 @ 10	120	475-2539-1-ND	.83	6.91	55.32	3,000	414.87/M	LW M673-N2R2-5K8L-0-10-R18-Z
	White	Diffused	5600†	3.1	20	125.5 @ 10	120	475-2692-1-ND	.90	7.47	59.74	3,000	448.05/M	LW M673-Q1R2-5K8L-Z
	White	Diffused	5600†	3.6	20	315 @ 20	120	475-1157-1-ND	.84	6.99	55.89	3,000	419.18/M	LW M67C-S1T2-5K8L-Z
	White	Diffused	5600†	3.6	20	445 @ 20	120	475-1341-1-ND	.81	6.73	53.82	3,000	403.65/M	LW M67C-S1U2-5K8L-0-20-R18-Z
	White	Diffused	5600†	3.6	20	495 @ 20	120	475-2693-1-ND	.87	7.27	58.13	3,000	435.95/M	LW M67C-T1U2-5K8L-Z
8	Amber	Clear	615	2.0	30	267.5 @ 20	120	475-2695-1-ND	.24	2.03	16.26	2,000	121.98/M	LA A676-S1T1-1-Z
	Amber	Clear	615	2.0	30	280 @ 20	120	475-1158-1-ND	.23	1.92	15.38	2,000	115.38/M	LA A676-R1S2-1-Z
	Amber	Clear	617	2.0	50	1,850 @ 30	120	475-2706-1-ND	.40	3.36	26.91	2,000	201.83/M	LA A67F-V2BB-24-Z
	Orange	Clear	606	1.8	20	12.55 @ 2	120	475-2738-1-ND	.22	1.84	14.76	2,000	110.67/M	LO A67K-K1L2-24-Z
	Orange	Clear	606	2.0	30	267.5 @ 20	120	475-2737-1-ND	.29	2.45	19.56	2,000	146.72/M	LO A676-S1T1-24-Z
	Orange	Clear	610	2.0	30	223 @ 20	120	475-1418-1-ND	.22	1.83	14.65	2,000	—	LO A676-Q2T1-24-0-20-R33-Z
	Red	Clear	625	2.0	50	1,180@ 30	120	475-2754-1-ND	.40	3.36	26.91	2,000	201.83/M	LR A67F-U2AB-1-Z
	Super-Red	Clear	645	2.1	40	392 @ 30	120	475-2503-1-ND	.35	2.92	23.32	2,000	174.92/M	LS A67B-S2U1-1-0-30-R33-Z
	Super-Red	Clear	643	1.8	20	11.3 @ 2	120	475-2504-1-ND	.23	1.94	15.53	2,000	116.45/M	LS A67K-J1L2-1-0-2-R33-Z
	Super-Red	Clear	645	2.0	30	224 @ 20	120	475-1277-1-ND	.22	1.83	14.65	2,000	109.89/M	LS A676-P2S1-1-0-20-R33-Z
	Super-Red	Clear	630	1.8	20	12.55 @ 2	120	475-2758-1-ND	.28	2.33	18.63	2,000	139.73/M	LS A67K-K1L2-1-Z
	Super-Red	Clear	633	2.0	30	168 @ 20	120	475-2757-1-ND	.29	2.45	19.56	2,000	146.72/M	LS A676-R1S1-1-Z
	Super-Red	Clear	633	2.0	50	925 @ 30	120	475-2705-1-ND	.40	3.36	26.91	2,000	201.83/M	LS A67F-U1AA-1-Z
	Blue	Clear	465	3.5	20	13.5 @ 10	120	475-2717-1-ND	.69	5.72	45.76	—	—	LB A676-K2L2-1-Z
	Blue	Clear	466	3.1	20	35 @ 10	120	475-1379-1-ND	.87	7.29	58.31	2,000	437.30/M	LB A673-L2P1-35-0-10-R33-Z
	Blue	Clear	428	3.5	20	11.8 @ 10	120	475-1380-1-ND	.61	5.10	40.84	2,000	306.27/M	LB A676-J2L2-1-0-10-R33-Z
	Blue	Clear	470	3.6	20	140 @ 20	120	475-1163-1-ND	1.08	9.03	72.21	2,000	541.56/M	LB A67C-P2R1-35-Z
	Blue	Clear	470	3.6	20	157 @ 20	120	475-2696-1-ND	1.11	9.28	74.27	2,000	557.04/M	LB A67C-Q2S1-35-Z
	Blue	Clear	471	3.1	20	39.2 @ 10	120	475-2716-1-ND	.94	7.87	62.97	2,000	472.28/M	LB A673-M2P1-35-Z
	Pure Green	Clear	560	1.8	20	1.96 @ 2	120	475-2701-1-ND	.22	1.82	14.53	2,000	108.99/M	LP A67K-F1G2-25-Z
	Pure Green	Clear	560	2.0	40	71 @ 30	120	475-1175-1-ND	.44	3.70	29.60	2,000	222.02/M	LP A675-N1P2-25-Z
	Pure Green	Clear	560	1.8	20	1.8 @ 2	120	475-1248-1-ND	.21	1.77	14.13	2,000	105.96/M	LP A67K-E1F2-25-Z
	Pure Green	Clear	560	2.4	30	28 @ 20	120	475-1160-1-ND	.32	2.65	21.23	2,000	159.23/M	LP A676-L1M2-25-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 13 — SMD

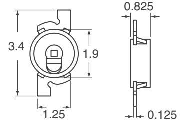

PointLED® and Hyper PointLED®

Fig. 14 — P-LCC-6

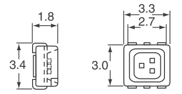

MULTILED®

Fig. 15 — SMD 0805

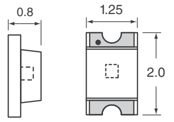

Hyper CHIPLED

Fig. 16 — SMD

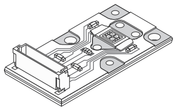

OSTAR® — Projection
(4 Chip Shown)

Fig. 17 — SMD

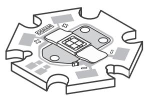

OSTAR® — Lighting
(4 Chip Shown)

Fig. 18

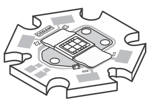

OSTAR® — Lighting
(6 Chip Shown)

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
8	Green	Clear	572	2.0	30	79 @ 20	120	475-1403-1-ND	.27	2.28	18.24	2,000	136.80/M	LG A676-P1Q2-24-0-20-R33-Z
	True Green	Clear	529	3.0	20	130 @ 10	120	475-2528-1-ND	.96	8.04	64.29	2,000	482.15/M	LT A673-N2S1-35-0-10-R33-Z
	True Green	Clear	523	3.5	20	562 @ 20	120	475-2529-1-ND	1.21	10.09	80.73	2,000	605.48/M	LT A67C-S2V1-35-0-20-R33-Z
	True Green	Clear	528	3.2	50	1,255 @ 20	120	475-2772-1-ND	1.12	9.34	74.75	2,000	560.63/M	LT A6SG-V1AB-36-Z
	True Green	Clear	528	3.5	20	560 @ 20	120	475-1164-1-ND	1.27	10.60	84.77	2,000	635.75/M	LT A67C-S2U1-35-Z
	True Green	Clear	528	3.5	20	627.5 @ 20	120	475-2771-1-ND	1.30	10.87	86.94	2,000	652.05/M	LT A673-Q1R2-25-Z
	True Green	Clear	529	3.0	20	125.5 @ 10	120	475-2677-1-ND	1.03	8.60	68.79	2,000	515.90/M	LT A673-Q1R2-25-Z
	Yellow	Clear	594	2.0	40	445 @ 30	120	475-2546-1-ND	.54	4.47	35.72	—	—	LY A675-S1U2-26-0-30-R33-Z
	Yellow	Clear	591	1.8	20	14 @ 2	120	475-2548-1-ND	.18	1.52	12.16	2,000	91.23/M	LY A67K-J2M1-26-0-2-R33-Z
	Yellow	Clear	587	2.0	30	355 @ 20	120	475-1162-1-ND	.22	1.83	14.65	2,000	109.89/M	LY A676-Q2T1-26-Z
	Yellow	Clear	587	2.0	30	267.5 @ 20	120	475-2787-1-ND	.24	2.03	16.26	2,000	121.98/M	LY A676-S1T1-26-Z
	Yellow	Clear	587	1.8	20	14.0 @ 2	120	475-1252-1-ND	.19	1.60	12.77	2,000	95.79/M	LY A67K-J2L1-26-Z
	Yellow	Clear	587	1.8	20	15.7 @ 2	120	475-2788-1-ND	.20	1.64	13.14	2,000	98.54/M	LY A67K-K2M1-26-Z
	Blue	Clear	465	3.6	20	140 @ 20	120	475-1342-1-ND	1.03	8.60	68.77	2,000	515.78/M	LB A67C-P2S1-35-0-20-R33-Z
	White	Diffused	5600†	3.1	20	135 @ 10	120	475-2536-1-ND	.87	7.29	58.31	2,000	437.30/M	LW A673-P1S1-5K8L-0-10-R33-Z
	White	Diffused	5600†	3.1	20	157 @ 10	120	475-2779-1-ND	.94	7.87	62.97	2,000	472.28/M	LW A673-Q2S1-5K8L-Z
	White	Diffused	5600†	3.6	20	467 @ 20	120	475-2537-1-ND	.99	8.22	65.78	2,000	493.35/M	LW A67C-S2U2-5K8L-0-20-R33-Z
	White	Diffused	5600†	3.6	20	532.5 @ 20	120	475-2669-1-ND	1.07	8.88	71.04	2,000	532.82/M	LW A67C-T2U2-5K8L-Z
	White	Diffused	5600†	3.6	20	392 @ 20	120	475-1165-1-ND	1.02	8.47	67.75	2,000	508.16/M	LW A67C-S2U1-5K8L-Z
9	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2566-1-ND	.24	2.02	16.13	3,000	120.95/M	LY Y876-Q2T1-26-0-20-R18-Z
	Super-Red	Clear	633	2.0	30	157 @ 20	120	475-2769-1-ND	.22	1.80	14.41	3,000	108.06/M	LS Y876-Q2S1-1-Z
	Orange	Clear	606	2.0	30	355 @ 20	120	475-1167-1-ND	.22	1.80	14.41	3,000	108.06/M	LO Y876-R2T1-24-Z
	White	Diffused	6200†	3.6	20	315 @ 20	120	475-1173-1-ND	.94	7.85	62.79	3,000	470.93/M	LW Y87C-S1T2-3K8L-Z
	White	Diffused	6200†	3.6	20	420 @ 20	120	475-1264-1-ND	1.02	8.48	67.81	3,000	535.62/M	LW Y87C-T1U1-3K8L-0-20-R18-Z
	Orange	Clear	606	2.0	30	157 @ 20	120	475-2749-1-ND	.21	1.75	14.01	3,000	105.06/M	LO Y876-Q2S1-24-Z
	Orange	Clear	610	2.0	30	222 @ 20	120	475-1266-1-ND	.20	1.67	13.34	—	—	LO Y876-Q2T1-24-0-20-R18-Z
	Blue	Clear	465	3.6	20	113 @ 20	120	475-1394-1-ND	.81	6.73	53.82	3,000	403.65/M	LB Y87C-P1R2-35-0-20-R18-Z
	Blue	Clear	470	3.4	15	19.6 @ 10	120	475-2728-1-ND	.91	7.59	60.72	3,000	455.40/M	LB Y87S-L1M2-35-Z
	Blue	Clear	470	3.6	20	125.5 @ 20	120	475-2727-1-ND	.87	7.27	58.13	3,000	435.95/M	LB Y87C-Q1R2-35-Z
	Blue	Clear	470	3.8	15	45 @ 10	120	475-1171-1-ND	.95	7.88	63.02	3,000	472.65/M	LB Y87S-M1N2-35-Z
	Green	Clear	572	2.0	30	14 @ 10	120	475-1414-1-ND	.15	1.23	9.84	—	—	LG Y870-J2M1-1-0-10-R18-Z
	True Green	Clear	523	3.4	15	70 @ 10	120	475-2533-1-ND	1.00	8.31	66.47	3,000	498.53/M	LT Y87S-N1Q2-35-0-10-R18-Z
	True Green	Clear	528	3.4	15	78.5 @ 10	120	475-1172-1-ND	1.06	8.80	70.38	3,000	527.85/M	LT Y87S-P1Q2-35-Z
10A	Orange	Diffused	610	1.8	20	14 @ 2	160	475-1194-1-ND	.18	1.52	12.19	5,000	91.43/M	LO L29K-J2L1-24
10B	Amber	Diffused	615	2.0	60	135 @ 20	160	475-2712-1-ND	.17	1.40	11.23	5,000	84.26/M	LA L296-Q2R2-1-Z
	Yellow	Diffused	587	1.8	20	7.85 @ 2	160	475-2794-1-ND	.16	1.37	10.93	5,000	81.98/M	LY L29K-J1K2-26-Z
	Yellow	Diffused	587	1.8	20	11.20 @ 2	160	475-1196-1-ND	.15	1.27	10.12	5,000	75.90/M	LY L29K-H1K2-26-Z
	Yellow	Diffused	587	2.0	30	135 @ 20	160	475-2793-1-ND	.19	1.56	12.51	5,000	93.83/M	LY L296-Q2R2-26-Z
	Blue	Diffused	465	2.90	20	39.2 @ 10	155/135	475-1383-1-ND	.69	5.75	46.00	5,000	345.00/M	LB L293-M2P1-36-1-10-R18-Z
	Blue	Diffused	470	2.90	20	39.2 @ 10	155/135	475-2720-1-ND	.69	5.75	46.00	5,000	345.00/M	LB L293-M2P1-35-Z
	Green	Diffused	570	1.7	20	3.92 @ 2	160	475-2709-1-ND	.16	1.37	10.93	5,000	81.98/M	LG L29K-G2J1-24-Z
	True Green	Diffused	528	3.4	15	98 @ 10	155/135	475-2774-1-ND	.44	3.68	29.44	5,000	220.80/M	LT L29S-P2R1-25-Z
	Orange	Diffused	606	1.8	20	6.28 @ 2	160	475-2740-1-ND	.17	1.41	11.27	5,000	84.53/M	LO L29K-H2K1-24-Z
	Orange	Diffused	606	2.0	30	157 @ 20	160	475-2739-1-ND	.18	1.52	12.19	5,000	91.43/M	LO L296-Q2S1-24-Z
	Orange	Diffused	610	2.0	30	135 @ 20	160	475-2480-1-ND	.17	1.38	11.04	—	—	LO L296-P1S1-24-0-20-R18-Z
	Orange	Diffused	610	1.8	20	8.8 @ 2	160	475-2481-1-ND	.15	1.27	10.12	5,000	75.90/M	LO L29K-H2L1-24-0-2-R18-Z
	Super-Red	Diffused	643	1.8	20	4.5 @ 2	160	475-2506-1-ND	.15	1.27	10.12	5,000	75.90/M	LS L29K-G1J2-1-0-2-R18-Z
	Super-Red	Diffused	633	2.0	60	84 @ 20	160	475-2761-1-ND	.17	1.40	11.23	5,000	84.26/M	LS L296-P2Q2-1-Z
	Super-Red	Diffused	630	1.8	20	4.95 @ 2	160	475-1195-1-ND	.16	1.37	10.93	5,000	81.98/M	LS L29K-H1J2-1-Z
	Yellow	Diffused	591	2.0	30	113 @ 20	160	475-2552-1-ND	.17	1.41	11.27	5,000	84.53/M	LY L296-P1R2-26-0-20-R18-Z
	White	Diffused	6200†	2.9	20	125.5 @ 10	170/130	475-2782-1-ND	.85	7.10	56.81	5,000	426.08/M	LW L283-Q1R2-3K8L-1-Z
	White	Diffused	6200†	3.1	20	98 @ 10	170/130	475-1276-1-ND	.81	6.73	53.82	5,000	403.65/M	LW L283-P2R1-3K8L-1-10-R18-Z
11	Red	Clear	632	2.2	500	11,500 @ 400	120	475-2502-1-ND	3.11	25.88	207.00	—	—	LR W5SM-GZHZ-1-0-400-R18-Z
	Red	Clear	625	2.5	1000	24,800 @ 700	120	475-1317-1-ND	3.80	31.63	253.00	800	1518.00	LR W5SN-JYKY-1-Z
	Red	Clear	625	2.2	500	15,600 @ 400	120	475-1339-1-ND	3.14	26.16	209.30	800	1255.80	LR W5SM-HYJY-1-Z
	Amber	Clear	624	2.2	500	13,300 @ 400	120	475-1375-1-ND	2.92	24.29	194.35	—	—	LA W5SM-HXJX-24-0-400-R18-Z
	Amber	Clear	617	2.2	500	18,300 @ 400	120	475-1235-1-ND	3.14	26.16	209.30	800	1255.80	LA W5SM-HZJZ-24-Z
	Amber	Clear	617	2.5	1000	28,800 @ 700	120	475-1303-1-ND	4.04	33.64	269.10	800	1614.60	LA W5SN-JZKZ-24-Z
	Blue	Clear	465	3.8	100	3,600 @ 350	120	475-1392-1-ND	6.60	55.00	440.00	800	2640.00	LB W5SG-EXFY-35-0-350-R18-Z
	Blue	Clear	470	3.8	500	2,700 @ 350	120	475-1198-1-ND	6.30	52.50	420.00	—	—	LB W5SG-DYEZ-35-Z
	True Green	Clear	520	3.2	100	17,500 @ 350	120	475-2532-1-ND	5.69	47.44	379.50	—	—	LT W5SM-HYJZ-36-0-350-R18-Z
	True Green	Clear	528	3.2	500	17,500 @ 350	120	475-1325-1-ND	5.69	47.44	379.50	800	2277.00	LT W5SM-HYJZ-36-Z
	Yellow	Clear	590	2.5	1000	24,800 @ 700	120	475-1338-1-ND	4.04	33.64	269.10	800	1614.60	LY W5SN-JYKY-46-Z
	White	Clear	6500†	3.2	350	30,900 @ 350	170	475-2810-1-ND ***NEW!***	7.45	62.10	496.80	200	745.20	LUW W5AM-KZLY-6P7R-Z
	White	Clear	6500†	3.2	350	32,800 @ 350	170	475-2811-1-ND ***NEW!***	7.47	62.24	497.95	200	746.93	LUW W5AM-LXLY-6P7R-Z
	Amber	Clear	617	2.2	1000	20,000 @ 400	170	475-2812-1-ND ***NEW!***	4.04	33.64	269.10	200	403.65	LA W5AM-JXKX-24-Z
	White	Clear	5600†	3.2	1000	21,000 @ 350	170	475-2604-1-ND	7.60	63.37	506.92	—	—	LW W5AM-KXKY-6K7L-Z
	Warm White	Clear	3000†	3.2	1000	12,500 @ 350	170	475-2588-1-ND	7.18	59.80	478.40	—	—	LCW W5AM-HZJY-4R9T-Z
	Warm White	Clear	2700†	3.2	1000	13,800 @ 350	170	475-2589-1-ND	7.18	59.80	478.40	—	—	LCW W5AM-HZJZ-4U9X-Z
	Warm White	Clear	3000†	3.2	1000	13,200 @ 350	170	475-2590-1-ND	7.78	64.83	518.65	—	—	LCW W5AM-JXJY-4R9T-Z
	Warm White	Clear	3500†	3.2	1000	15,900 @ 350	170	475-2591-1-ND	7.20	60.00	480.00	—	—	LCW W5AM-JXKX-4O9Q-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Dimensions in mm

Fig. 19 — SMD

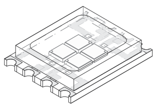

OSTAR® (4 Chip Shown)

Fig. 20 — Through-hole

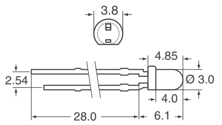

3mm

Fig. 21 — SMD

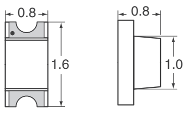

CHIPLED

Fig. 22 — SMD

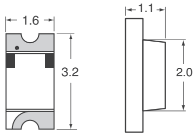

CHIPLED

Fig. 23 — SMD

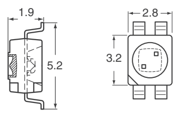

Multi TOPLED® RG

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing	Osram Part No.
11	Warm White	Clear	3000†	3.2	1000	15,400 @ 350	170	475-2592-1-ND	6.56	54.63	437.00	200	655.50	LCW W5AM-JYJZ-4R9T-Z
	Warm White	Clear	4000†	3.2	1000	19,700 @ 350	170	475-2595-1-ND ***NEW!***	7.18	59.80	478.40	200	717.60	LCW W5AM-JZKY-4L8N-Z
	Warm White	Clear	4000†	3.2	1000	22,800 @ 350	170	475-2596-1-ND ***NEW!***	7.45	62.10	496.80	200	745.20	LCW W5AM-KXKZ-4L8N-Z
	Warm White	Clear	3000†	3.2	300	42,500 @ 350	120	475-2618-1-ND	6.28	52.33	418.60	—	—	LCW W5SM-HYJX-4R9T-Z
	Warm White	Clear	2700†	3.2	300	47,000 @ 350	120	475-2619-1-ND	6.28	52.33	418.60	—	—	LCW W5SM-HYJY-4U9X-Z
	Warm White	Clear	3500†	3.2	300	55,000 @ 350	120	475-2620-1-ND	6.28	52.33	418.60	—	—	LCW W5SM-HZJZ-4O9Q-Z
	Warm White	Clear	4000†	3.2	300	58,000 @ 350	120	475-2621-1-ND	6.28	52.33	418.60	—	—	LCW W5SM-JXJZ-4L8N-Z
	Warm White	Clear	4500†	3.2	300	63,500 @ 350	120	475-2622-1-ND	6.28	52.33	418.60	—	—	LCW W5SM-JXKX-4J8K-Z
	Warm White	Clear	3000†	3.6	550	86,500 @ 700	120	475-2623-1-ND	7.92	65.98	527.85	—	—	LCW W5SN-JZKZ-4R9T-Z
	Warm White	Clear	2700†	3.6	550	86,500 @ 700	120	475-2624-1-ND	8.80	73.31	586.50	—	—	LCW W5SN-JZKZ-4U9X-Z
	Warm White	Clear	3500†	3.6	550	100,500 @ 700	120	475-2625-1-ND	7.92	65.98	527.85	400	1583.55	LCW W5SN-KXLX-4O9Q-Z
	Warm White	Clear	4500†	3.6	550	116,000 @ 700	120	475-2626-1-ND	7.92	65.98	527.85	400	1583.55	LCW W5SN-KYLY-4J8K-Z
	Warm White	Clear	4000†	3.6	550	116,000 @ 700	120	475-2627-1-ND	7.92	65.98	527.85	—	—	LCW W5SN-KYLY-4L8N-Z
	Ultra White	Clear	6500†	3.2	1000	22,900 @ 350	170	475-2598-1-ND	7.20	60.00	480.00	—	—	LUW W5AM-KXKZ-5F8G-Z
	Ultra White	Clear	6500†	3.2	1000	22,900 @ 350	170	475-2599-1-ND	7.20	60.00	480.00	—	—	LUW W5AM-KXKZ-5P7R-Z
	Ultra White	Clear	6500†	3.2	1000	26,500 @ 350	170	475-2600-1-ND	6.05	50.46	403.65	200	605.48	LUW W5AM-KYLX-6P7Q-Z
	Ultra White	Clear	6500†	3.2	1000	26,500 @ 350	170	475-2601-1-ND	8.05	67.10	536.82	200	805.23	LUW W5AM-KYLX-7P7R-Z
	Blue	Clear	470	3.2	1000	7500 @ 350	170	475-2817-1-ND ***NEW!***	7.62	63.54	508.30	200	762.45	LB W5AM-GYHY-25-Z
	Blue	Clear	455	3.2	1000	630 @ 350	170	475-2818-1-ND ***NEW!***	7.62	63.54	508.30	200	762.45	LD W5AM-3T3U-35-Z
	Red	Clear	625	2.2	1000	17,600 @ 400	170	475-2821-1-ND ***NEW!***	4.04	33.64	269.10	200	403.65	LR W5AM-HZJZ-1-Z
	Green	Clear	528	3.2	1000	28,700 @ 350	170	475-2825-1-ND ***NEW!***	7.62	63.54	508.30	200	762.45	LT W5AM-JYKZ-36-Z
	Yellow	Clear	590	2.2	1000	17,000 @ 400	170	475-2836-1-ND ***NEW!***	4.04	33.64	269.10	200	403.65	LY W5AM-HYJZ-36-Z
	Warm White	Clear	2700†	3.2	1000	16,750 @ 350	170	475-2837-1-ND ***NEW!***	7.78	64.83	518.65	200	777.98	LCW W5AM-JYKX-4U9X-Z
	Warm White	Clear	3500†	3.2	1000	20,500 @ 350	170	475-2838-1-ND ***NEW!***	7.18	59.80	478.40	200	717.60	LCW W5AM-JYKZ-4O9Q-Z
	Warm White	Clear	3000†	3.2	1000	19,800 @ 350	170	475-2839-1-ND ***NEW!***	6.52	54.34	434.70	200	652.05	LCW W5AM-JZKY-4R9T-Z
	Warm White	Clear	4500†	3.2	1000	21,650 @ 350	170	475-2840-1-ND ***NEW!***	7.18	59.80	478.40	200	717.60	LCW W5AM-JZKZ-4J8K-Z
	Warm White	Clear	3000†	3.2	1000	21,000 @ 350	170	475-2841-1-ND ***NEW!***	7.45	62.10	496.80	200	745.20	LCW W5AM-KXKY-4R9T-Z
12	Yellow	Clear	590	2.2	200	3,920 @ 140	120	475-2792-1-ND	1.06	8.85	70.83	1,000	531.26	LY G6SP-BBDA-36-1-Z
	Yellow	Clear	594	2.2	200	4,670 @ 140	120	475-2551-1-ND	1.03	8.60	68.77	1,000	515.78	LY G6SP-BBDB-36-1-140-R18-Z
	Amber	Clear	617	2.1	200	9,000 @ 140	120	475-1247-1-ND	1.03	8.60	68.77	1,000	515.78	LA G6SP-CBEA-24-1-Z
	Red	Clear	625	2.1	200	4,950 @ 140	120	475-1315-1-ND	1.12	9.34	74.75	1,000	560.63	LR G6SP-CADB-1-1-Z
	Blue	Clear	470	3.6	250	1,850 @ 140	120	475-1305-1-ND	2.47	20.56	164.45	1,000	1233.38	LB G6SP-V2BB-35-1-Z
	True Green	Clear	528	3.6	250	7,375 @ 140	120	475-1324-1-ND	2.47	20.56	164.45	1,000	1233.38	LT G6SP-CBEB-25-1-Z
	White	Diffused	3000†	3.6	140	5,900 @ 140	120	475-2613-1-ND	2.69	22.43	179.40	—	—	LCW G6SP-CAEA-4R9T-Z
	White	Diffused	2700†	3.6	140	5,900 @ 140	120	475-2614-1-ND	2.69	22.43	179.40	500	672.75	LCW G6SP-CAEA-4U9X-Z
	White	Diffused	4500†	3.6	140	7,375 @ 140	120	475-2615-1-ND	2.69	22.43	179.40	—	—	LCW G6SP-CBEB-4J8K-Z
	White	Diffused	4000†	3.6	140	7,375 @ 140	120	475-2616-1-ND	2.69	22.43	179.40	—	—	LCW G6SP-CBEB-4L8N-Z
	White	Diffused	3500†	3.6	140	7,375 @ 140	120	475-2617-1-ND	2.69	22.43	179.40	500	672.75	LCW G6SP-CBEB-4O9Q-Z
	White	Clear	5600†	3.6	250	7,850 @ 140	120	475-2830-1-ND ***NEW!***	2.92	24.29	194.35	1,000	1457.63	LW G6CP-DAEB-6K8L-1-Z
13	Green	Clear	570	1.8	20	6.28 @ 2	120	475-2731-1-NDΔ	.16	1.37	10.93	3,000	81.98/M	LG P47K-H2K1-24-Z
	Green	Clear	572	1.8	20	5.6 @ 2	120	475-1408-1-ND	.15	1.27	10.12	3,000	75.90/M	LG P47K-G2K1-24-0-2-R18-Z
	True Green	Clear	528	3.2	20	1,255 @ 20	120	475-2776-1-ND	1.02	8.51	68.08	3,000	510.60/M	LT P4SG-V1AB-36-F-Z
	Super-Red	Clear	630	1.8	20	7.85 @ 2	120	475-2764-1-NDΔ	.15	1.27	10.18	3,000	76.38/M	LS P47K-J1K2-1-Z
	Super-Red	Clear	643	1.8	20	7 @ 2	120	475-2511-1-ND	.14	1.18	9.43	—	—	LS P47K-H1K2-1-0-2-R18-Z
	Super-Red	Clear	633	2.0	50	1,400 @ 30	120	475-1249-1-ND	.40	3.36	26.91	3,000	201.83/M	LS P47F-U1AA-1-1-Z
	Red	Clear	625	2.0	50	1,180 @ 30	120	475-1316-1-NDΔ	.40	3.36	26.91	3,000	219.77/M	LR P47F-U2AB-1-1-Z
	Amber	Clear	617	2.0	50	1,850 @ 30	120	475-1301-1-NDΔ	.44	3.66	29.30	3,000	219.77/M	LA P47F-V2BB-24-1-Z
	Amber	Clear	617	2.1	60	627.5 @ 30	120	475-2713-1-NDΔ	.33	2.73	21.85	3,000	163.88/M	LA P47B-T2V1-24-1-Z
	Yellow	Clear	587	1.8	20	12.55 @ 2	120	475-2796-1-NDΔ	.15	1.27	10.18	3,000	76.38/M	LY P47K-K1L2-26-Z
	Yellow	Clear	590	2.05	50	1,180 @ 30	120	475-1337-1-NDΔ	.45	3.74	29.90	3,000	224.25/M	LY P47F-U2AB-36-1-Z
	White	Diffused	6200†	2.9	20	160 @ 10	120	475-2783-1-NDΔ	.76	6.31	50.51	3,000	378.80/M	LW P473-R2T1-3K8L-1-Z
	Blue	Clear	465	3.2	20	392 @ 20	120	475-2814-1-NDΔ ***NEW!***	1.08	8.97	71.76	3,000	538.20/M	LB P4SG-S2U1-35
	Orange	Clear	610	2.0	30	247.5 @ 20	120	475-2819-1-NDΔ ***NEW!***	.23	1.94	15.55	3,000	116.61/M	LO P476-R2T1-24-Z
	Yellow	Clear	591	2.0	30	247.5 @ 20	120	475-2834-1-NDΔ ***NEW!***	.21	1.78	14.21	3,000	106.58/M	LY P476-R2T1-26-Z
14	Red	Diffused	625	2.1	70	590 @ 20	120	475-2756-1-ND	2.02	16.82	134.55	1,000	1009.13	LRTB G6SG-T1V1-1+U1AA-45+R
	True Green	Diffused	528	3.2	50	925 @ 20	120							
	Blue	Diffused	458	3.2	50	336 @ 20	120							
	Red	Diffused	632	2.1	70	590 @ 20	120	475-1319-1-ND	1.75	14.58	116.61	1,000	874.58	LRTB G6TG-TU7+VV7+ST7+IB
	True Green	Diffused	523	3.2	50	1,055 @ 20	120							
	Blue	Diffused	465	3.2	50	370 @ 20	120							
	Amber	Clear	617	2.0	70	315 @ 20	120	475-2813-1-ND ***NEW!***	1.57	13.08	104.65	1,000	784.88	LATBG66B-ST-1+T7V-35+QS-36
	Blue	Clear	470	3.6	30	175.5 @ 20	120							
	Green	Clear	528	3.5	30	737.5 @ 20	120							
	Red	Clear	625	2.05	40	1077.5 @ 20	120	475-2822-1-ND ***NEW!***	1.63	13.58	108.68	4000	815.07/M	LRTB GFTG-T7AW-1+V7A7-29+R5T9-49-L
	Blue	Clear	470	3.2	50	377.5 @ 20	120							
	True Green	Clear	528	3.2	50	1570 @ 20	120							
	Red	Diffused	634	2.05	50	600 @ 20	120	475-2853-1-ND ***NEW!***	2.02	16.82	134.55	1,000	1009.13	LRTBG6SF-V2BA-3E7F-0-0-ZP
	Green	Diffused	529	3.2	50	980 @ 20	120							
	Blue	Diffused	460	3.2	50	250 @ 20	120							
	Red	Diffused	632	2.05	40	143.5 @ 10	120	475-2854-1-ND ***NEW!***	1.63	13.58	108.68	1,000	815.07	LRTBGFUG-P9R7-1+S7U-29+M7
	Green	Diffused	523	3.2	50	467 @ 20	120							
	Blue	Diffused	465	3	50	67.2 @ 10	120							

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 24 — SMD

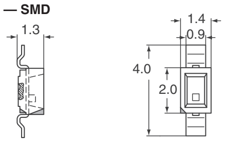

Hyper Mini TOPLED Santana®

Fig. 25 — SMD

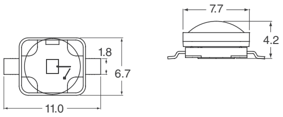

Diamond DRAGON®

Fig. 26 — SMD

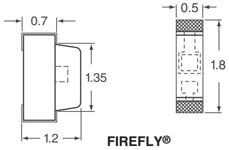

FIREFLY®

Fig. 27 — SMD

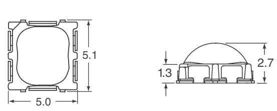

OSLUX™

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
15	Green	Diffused	572	2.2	25	26 @ 20	160	475-1410-1-ND	.11	.93	7.48	4,000	56.07/M	LG R971-KN-1-0-20-R18
	Orange	Diffused	610	2.0	25	163 @ 20	160	475-2488-1-ND	.13	1.08	8.67	4,000	65.04/M	LO R976-PS-1-0-20-R18
	Yellow	Diffused	589	2.2	20	10.4 @ 20	160	475-2559-1-ND	.06	.47	3.80	—	—	LY R971-HL-1-0-20-R18
	Yellow	Diffused	591	2.0	25	163 @ 20	160	475-2560-1-ND	.08	.68	5.47	—	—	LY R976-PS-36-0-20-R18
	Super-Red	Diffused	645	2.0	25	180 @ 20	160	475-1278-1-ND	.13	1.08	8.67	4,000	65.04/M	LS R976-NR-1-0-20-R18
16	Amber	Clear	627	2.8	1000	155,000 @ 1000	120	475-1282-ND*	108.00	864.00	7830.00	—	—	LE A H3A-KBMA-34
	Blue	Clear	460	3.5	700	11,000 @ 500	120	475-1285-ND*	80.00	640.00	5800.00	—	—	LE B A2A-EWJW-23
	Blue	Clear	460	4.0	1000	40,000 @ 1000	120	475-1286-ND*	108.00	864.00	7830.00	—	—	LE B H3A-GWJW-23
	True Green	Clear	520	4.0	1000	155,000 @ 1000	120	475-1294-ND*	108.00	864.00	7830.00	—	—	LE T H3A-KBMA-24
	Amber	Clear	627	2.8	1000	105,000 @ 1000	120	475-1283-ND*	108.00	864.00	7830.00	—	—	LE AB H3AB-JBLA-1+EWFW-23
	Blue	Clear	460	4.0	1000	13,000 @ 1000	120							
17	Warm White	Clear	2700†	14.0	550	72,000 @ 700	120	475-2628-ND*	27.95	223.56	2026.01	—	—	LE CW E2A-LYNX-URVU
	Warm White	Clear	3500†	14.0	550	80,000 @ 700	120	475-2630-ND*	27.95	223.56	2026.01	—	—	LE CW E2A-MXNY-QRRU
	Warm White	Clear	4000†	14.0	550	83,000 @ 700	120	475-2632-ND*	32.89	263.12	2384.53	—	—	LE CW E2A-MXNZ-ORPU
	Warm White	Clear	2700†	14.0	550	65,000 @ 700	120	475-2633-ND*	32.89	263.12	2384.53	—	—	LE CW E2B-MXNZ-URVU
	Warm White	Clear	3000†	14.0	550	71,000 @ 700	120	475-2634-ND*	32.89	263.12	2384.53	—	—	LE CW E2B-MYNZ-SRTU
	Warm White	Clear	3500†	14.0	550	76,000 @ 700	120	475-2635-ND*	32.89	263.12	2384.53	—	—	LE CW E2B-MYPX-QRRU
	Warm White	Clear	4500†	14.0	550	88,000 @ 700	120	475-2636-ND*	32.89	263.12	2384.53	—	—	LE CW E2B-MZPY-MRNU
	Warm White	Clear	4000†	14.0	550	88,000 @ 700	120	475-2637-ND*	32.89	263.12	2384.53	—	—	LE CW E2B-MZPY-ORPU
18	Warm White	Clear	2700†	20.8	550	105,000 @ 700	120	475-2638-ND*	41.86	334.88	3034.85	—	—	LE CW E3A-MXPX-URVU
	Warm White	Clear	3500†	20.8	550	125,000 @ 700	120	475-2642-ND*	41.86	334.88	3034.85	—	—	LE CW E3A-MZPY-QRRU
	Warm White	Clear	2700†	20.8	550	91,000 @ 700	130	475-2643-ND*	39.59	316.70	2870.10	—	—	LE CW E3B-NXPY-URVU
19	Amber	Clear	617	2.5	1000	75cd @ 700	120	475-2804-1-ND	26.91	224.25	1794.00	500	6986.25	LE A S2W-MXMZ-34
	True Green	Clear	525	3.6	1000	140cd @ 700	120	475-2807-1-ND	38.19	318.26	2546.10	500	9547.88	LE T S2W-NYPY-35
	Blue	Clear	470	3.6	1000	35cd @ 700	120	475-2806-1-ND	35.40	294.98	2359.80	500	8849.25	LE B S2W-KYLY-23
	Amber	Clear	617	2.5	1000	20cd @ 700	120	475-2805-1-ND	33.64	280.31	2242.50	500	8409.38	LE ATB S2W-JW-1+LBMB-24+G
	True Green	Clear	525	3.6	1000	70cd @ 700	120							
	Blue	Clear	470	3.6	1000	10cd @ 700	120							
20	Amber	Diffused	622	2.0	30	315 @ 20	70	475-1366-ND‡	.15	1.17	10.58	—	—	LA 3366-R1T2-1-0-20-BULK
	Red	Diffused	643	1.8	20	16.8 @ 2	60	475-2823-ND‡ ***NEW!***	.10	.79	7.20	—	—	LS 336K-J2M2-1
21	Green	Diffused	572	2.2	25	10 @ 20	160	475-1409-1-ND	.11	.93	7.48	4,000	56.07/M	LG Q971-KN-1-0-20-R18
	Super-Red	Diffused	645	2.0	25	104 @ 20	160	475-2512-1-ND	.13	1.08	8.67	4,000	65.04/M	LS Q976-NR-1-0-20-R18
	Orange	Diffused	610	2.0	25	163 @ 20	160	475-2486-1-ND	.13	1.08	8.67	—	—	LO Q976-PS-25-0-20-R18
	Yellow	Diffused	591	2.0	25	163 @ 20	160	475-2558-1-ND	.08	.68	5.47	4,000	41.06/M	LY Q976-P1S2-36-0-20-R18
22	Green	Diffused	572	2.2	25	26 @ 20	160	475-1407-1-ND	.06	.53	4.21	3,000	31.58/M	LG N971-KN-1-0-20-R18
	Yellow	Diffused	589	2.2	20	10.4 @ 20	160	475-2556-1-ND	.06	.53	4.21	—	—	LY N971-HL-1-0-20-R18
	Blue	Diffused	472	2.85	15	42 @ 5	155/135	475-2815-1-ND ***NEW!***	.58	4.85	38.82	4,000	291.18/M	LB Q39E-N1P1-35-1
	Blue	Diffused	472	2.85	15	29.5 @ 5	155/135	475-2816-1-ND ***NEW!***	.49	4.11	32.89	4,000	246.68/M	LB Q39G-L2N2-35-1
	White	Diffused	8200†	2.85	15	175.5 @ 5	130/150	475-2831-1-ND ***NEW!***	.61	5.05	40.37	4,000	302.75/M	LW Q38E-Q1S2-3K6L-1
	White	Diffused	8200†	2.85	15	147.5 @ 5	130/150	475-2832-1-ND ***NEW!***	.56	4.66	37.26	4,000	279.45/M	LW Q38G-Q1S1-3K6L-1
23	Orange	Clear	610	1.8	15	11.3 @ 2	120	475-2493-1-ND	.43	3.55	28.41	2,000	213.05/M	LOG T77K-JL-1-0+GJ-1-0-2-R18-Z
	Green	Clear	572	1.8	15	4.5 @ 2	120							
24	Blue	Clear	465	3.6	20	113 @ 20	120	475-1384-1-ND	.94	7.85	62.79	3,000	470.93/M	LB M47C-P1R2-35-1-20-R18-Z
	Blue	Clear	470	3.6	20	125.5 @ 20	120	475-2721-1-ND	1.02	8.48	67.81	3,000	508.61/M	LB M47C-Q1R2-35-1-Z
	Green	Clear	572	1.8	20	4.5 @ 2	120	475-1404-1-ND	.18	1.50	11.96	3,000	89.70/M	LG M47K-G1J2-24-0-2-R18-Z
	Orange	Clear	606	1.8	20	15.7 @ 2	120	475-2741-1-ND	.17	1.41	11.30	3,000	84.77/M	LO M47K-K2M1-24-Z
	Orange	Clear	610	1.8	20	14 @ 2	120	475-2482-1-ND	.16	1.31	10.47	—	—	LO M47K-J2M1-24-0-2-R18-Z
	Yellow	Clear	587	1.8	20	12.55 @ 2	120	475-2795-1-ND	.17	1.41	11.30	3,000	84.77/M	LY M47K-K1L2-26-Z
	Yellow	Clear	591	1.8	20	11.3 @ 2	120	475-2553-1-ND	.16	1.31	10.47	3,000	78.50/M	LY M47K-J1L2-26-0-2-R18-Z
	Super-Red	Clear	630	1.8	20	9.8 @ 2	120	475-2762-1-ND	.16	1.37	10.98	3,000	82.35/M	LS M47K-J2L1-1-Z
	Super-Red	Clear	643	1.8	20	8.8 @ 2	120	475-2507-1-ND	.15	1.27	10.17	3,000	76.25/M	LS M47K-H2L1-1-0-2-R18-Z
25	Red	Clear	634	2.5	2000	45cd @ 1.4A	140	475-2581-1-ND	14.88	123.97	991.76	200	1630.13	LR W5AP-KZMX-1-Z
	Yellow	Clear	593	2.5	2000	38cd @ 1.4A	140	475-2582-1-ND	14.88	123.97	991.76	200	1630.13	LY W5AP-KYLZ-36-Z
	Blue	Clear	465	3.5	2000	16.3cd @ 1.4A	140	475-2583-1-ND	18.63	155.25	1242.00	—	—	LB W5AP-HZKX-23-Z
	Blue	Clear	465	3.5	2000	20.1cd @ 1.4A	140	475-2584-1-ND	18.63	155.25	1242.00	200	1863.00	LB W5AP-JYKY-35-Z
	Deep Blue	Clear	449	3.5	2000	—	140	475-2585-1-ND	18.63	155.25	1242.00	200	1863.00	LD W5AP-3V8A-35-Z
	True Green	Clear	520	3.5	2000	55.4cd @ 1.4A	140	475-2586-1-ND	18.63	155.25	1242.00	200	1863.00	LT W5AP-LYMZ-25-Z
26	Blue	Diffused	470	2.9	20	18 @ 5	145/160	475-2725-1-ND	.39	3.28	26.20	—	—	LB V193-K2M2-36-1-Z
	Green	Diffused	570	2.0	30	49.5 @ 20	140/135	475-2735-1-ND	.20	1.68	13.40	—	—	LG V196-N1P2-24
	Orange	Diffused	606	2.0	30	98 @ 20	140/135	475-2748-1-ND	.20	1.68	13.40	5,000	100.50/M	LO V196-P2R1-24
	Super-Red	Diffused	633	2.0	30	84 @ 20	140/135	475-2768-1-ND	.20	1.68	13.40	—	—	LS V196-P2Q2-1
	White	Diffused	8200†	3.0	20	210 @ 10	130/180	475-2786-1-ND	.81	6.73	53.80	5,000	403.50/M	LW V18G-R2S2-3K5L
27	White	Clear	5600†	3.6	500	75,000 @ 700	60/47	475-2780-1-ND	8.03	66.93	535.43	—	—	LW F65G-HZKX-58-Z
	White	Clear	6500†	3.6	500	86,000 @ 700	60/47	475-2828-1-ND ***NEW!***	7.71	64.29	514.28	—	—	LUW F65G-KXLY-5P7R
28	Amber	Clear	617	2.1	200	4,950 @ 140	120	475-2710-1-ND ***NEW!***	2.00	16.63	133.06	—	—	LA C9SM-CADB-24-1-Z
	White	Diffused	6500†	3.4	500	28,000 @ 500	120	475-2826-1-ND ***NEW!***	6.12	51.03	408.25	4,000	3061.88/M	LUW C9EP-N4N6-EG-Z
	White	Clear	5600†	3.5	500	24,000 @ 500	120	475-2827-1-ND ***NEW!***	7.18	59.80	478.40	4,000	3588.00/M	LW C9SN-F0HA-58-S-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

(Continued)

Fig. 28 — SMD *NEW!*

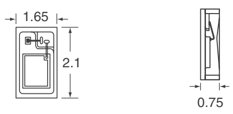

CERAMOS™

Fig. 29 — SMD *NEW!*

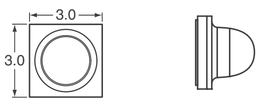

OSLON

Fig. 30 — SMD *NEW!*

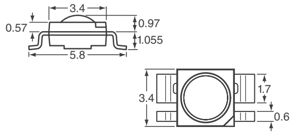

Advanced Power TOPLED®

Fig. 31 — SMD *NEW!*

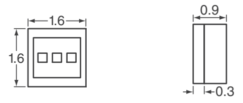

Multi CHIPLED

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing	Osram Part No.
28	Red	Diffused	623	2.35	250	—	120	475-2856-1-ND ***NEW!***	5.63	46.95	375.59	1,000	2816.93	LRTDC9TP-EAFB-GHQN
	Green	Diffused	527	3.5	250	—	120							
	Blue	Diffused	457	3.4	250	—	120							
29	Amber	Clear	617	2.15	200	12,000 @ 140	60	475-2848-1-ND ***NEW!***	1.86	15.53	124.20	600	558.90	LA CN5M-FBGB-24-1-Z
	Amber	Clear	617	2.2	1000	36,000 @ 400	80	475-2885-1-ND ***NEW!***	4.89	40.74	325.91	600	1466.60	LA CP7P-JXKX-24
	Blue	Clear	453	3.3	250	—	60	475-2849-1-ND ***NEW!***	2.79	23.29	186.30	600	838.35	LD CN5M-1R1S-35-1-Z
	Blue	Clear	453	3.3	250	—	60	475-2850-1-ND ***NEW!***	3.59	29.90	239.20	600	1076.40	LD CN5M-4Q4R-35-1-Z
	Blue	Clear	455	3.2	1000	—	80	475-2881-1-ND ***NEW!***	7.59	63.25	506.00	600	2277.00	LD CP7P-1T2U-35
	Green	Clear	528	3.2	1000	78.5lm @ 350	80	475-2880-1-ND ***NEW!***	8.28	69.00	552.00	600	2484.00	LT CP7P-JYKZ-26
	Green	Clear	528	3.3	250	15,000 @ 140	60	475-2857-1-ND ***NEW!***	3.59	29.90	239.20	600	1076.40	LT CN5M-FBGB-25-1-Z
	Green	Clear	528	3.3	250	22,500 @ 140	60	475-2858-1-ND ***NEW!***	2.79	23.29	186.30	600	838.35	LT CN5M-GAHB-25-1-Z
	Warm White	Clear	3000†	3.2	700	86.65lm @ 350	80	475-2882-1-ND ***NEW!***	7.69	64.06	512.44	600	2305.98	LCW CP7P-KQKS-5R8T-35
	Warm White	Clear	3000†	3.2	700	80.1lm @ 350	80	475-2884-1-ND ***NEW!***	7.40	61.67	493.35	600	2220.08	LCW CP7P-KPKR-5R8T-35
	Warm White	Clear	4000†	3.2	700	86.65lm @ 350	80	475-2883-1-ND ***NEW!***	7.40	61.67	493.35	600	2220.08	LCW CP7P-KQKS-5L7N-35
	White	Clear	6500†	3.3	250	19,100 @ 140	60	475-2860-1-ND ***NEW!***	3.59	29.90	239.20	600	1117.80	LUW-CN5M-GAHA-5P7R-1-Z
	White	Clear	6500†	3.2	1000	56cd @ 350	80	475-2861-1-ND ***NEW!***	7.40	61.67	493.35	600	2220.08	LUW-CP7P-KSKU-5C8E-35
	White	Clear	6000†	3.2	1000	56cd @ 350	80	475-2862-1-ND ***NEW!***	7.40	61.67	493.35	600	2220.08	LUW CP7P-KSKU-5E8G-35
	White	Clear	6000†	3.2	1000	56cd @ 350	80	475-2878-1-ND ***NEW!***	8.22	68.51	548.09	600	2375.33	LUW CP7P-KTLP-5E8G-35
	White	Clear	6500†	3.2	1000	109lm @ 350	80	475-2879-1-ND ***NEW!***	7.92	65.98	527.85	600	2375.33	LUW CP7P-KTLP-5C8E-35
30	Blue	Clear	457	3.3	200	—	145	475-2851-1-ND ***NEW!***	2.24	18.69	149.50	3,500	1121.26/M	LD G5AP-2M2N-35-1-Z
	Red	Clear	623	2.3	200	3,450 @ 100	145	475-2852-1-ND ***NEW!***	1.07	8.93	71.42	3,500	535.62/M	LR G5AP-BZCZ-1-1-Z
	Green	Clear	527	3.3	200	6,050 @ 100	145	475-2859-1-ND ***NEW!***	2.24	18.69	149.50	3,500	1121.26/M	LT G5AP-CZEX-36-1-Z
31	Red	Diffused	632	2.05	30	320 @ 20	120	475-2855-1-ND ***NEW!***	1.03	8.60	68.77	3,000	515.78/M	LRTB R98G-R7T5-1+S7U-37+P7R-26
	Green	Diffused	523	3.3	20	467 @ 20	120							
	Blue	Diffused	465	3.4	20	118 @ 20	120							

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount † Measured in Kalvin Units

Dot Matrix Displays

Fig. 1

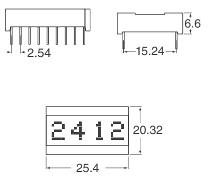

Fig. 2

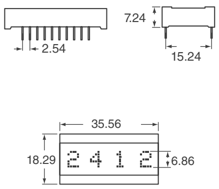

Fig. 3

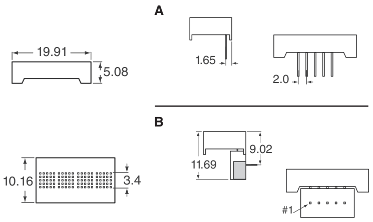

Fig. 4

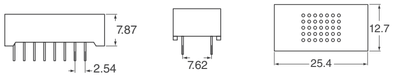

Fig. 5

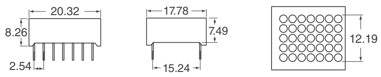

Fig. 6

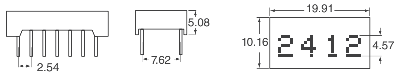

Fig. 7

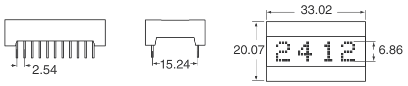

Fig. 8

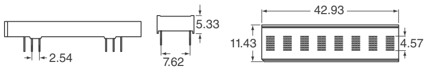

Fig. 9

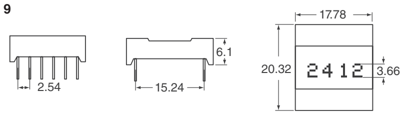

Fig.	Emitted Color	Peak Wavelength (nm)	No. of Character	Character Height (Inch)	Luminous Intensity (mcd)	Digi-Key Part No.	Price Each 1	10	100	Osram Part No.
1	Green	565	4	0.200	120	475-1352-ND	18.98	15.19	13.77	DLG2416
	Red	660	4	0.200	60	475-1362-ND	18.98	15.19	13.77	DLR2416
	High Eff. Red	630	4	0.200	100	475-1357-ND	18.98	15.19	13.77	DLO2416
2	High Eff. Red	630	4	0.270	90	475-1421-ND	19.56	15.65	14.19	PD3535
	High Eff. Red	630	4	0.450	90	475-1423-ND	32.20	25.76	23.35	PD4435
	Bright Green	565	4	0.450	90	475-1424-ND	32.20	25.76	23.35	PD4437
3A	Super-Red	630	4	0.134	1.8	475-1425-ND	20.70	16.56	15.01	SCDQ5542P
3B	Super-Red	630	4	0.134	1.8	475-1426-ND	20.70	16.56	15.01	SCDQ5542R
4	Super-Red	635	1	0.43	1500	475-1359-ND	12.88	10.31	9.34	DLO4135
	Green	565	1	0.43	1500	475-1354-ND	12.88	10.31	9.34	DLG4137
5	Super-Red	635	1	0.68	1500	475-1360-ND	13.80	11.04	10.01	DLO7135
	Green	565	1	0.68	1500	475-1355-ND	13.80	11.04	10.01	DLG7137
6	Green	565	4	0.180	75	475-2573-ND	20.70	16.56	15.01	SLG2016
	Super-Red	635	4	0.180	60	475-2574-ND	20.70	16.56	15.01	SLO2016
	Red	660	4	0.180	50	475-2575-ND	20.70	16.56	15.01	SLR2016
	Yellow	585	4	0.180	60	475-2576-ND	20.70	16.56	15.01	SLY2016
7	High Eff. Red	630	4	0.270	120	475-1358-ND	19.56	15.65	14.19	DLO3416
	Red	660	4	0.270	60	475-1363-ND	19.56	15.65	14.19	DLR3416
	Green	565	4	0.270	140	475-1353-ND	19.56	15.65	14.19	DLG3416
8	Super-Red	630	8	0.180	75	475-2577-ND	35.52	28.42	25.76	SCE5782
	Green	565	8	0.180	75	475-2578-ND	35.52	28.42	25.76	SCE5783
9	Red	660	4	0.145	50	475-1361-ND	18.40	14.72	13.34	DLR1414
	High Eff. Red	630	4	0.145	60	475-1356-ND	18.40	14.72	13.34	DLO1414

LEDIL

LED Lenses

Features:
- Lens material optical grade PC and PMMA with high UV and temperature resistance
- High optical efficiency
- Even color distribution over the whole beam angle

Fig. 1

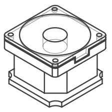

(Real Spot shown)

Fig. 2

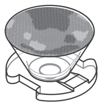

Fig. 3

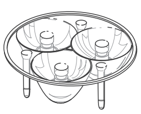

Fig. 4

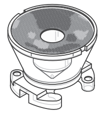

Fig. 5

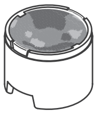

Fig. 6

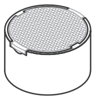

Fig. 7

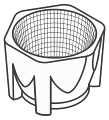

Fig. 8

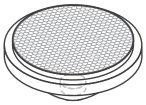

Fig. 9

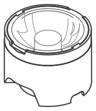

Fig. 10

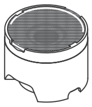

Fig. 11

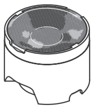

Fig. 12

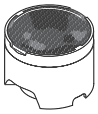

Fig. 13

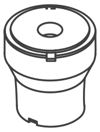

Fig. 14

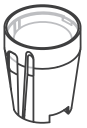

Fig. 15

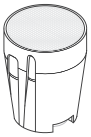

Fig. 16

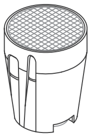

Fig.	Description	Lens Type	Beam Angle	Digi-Key Part No.	Price Each	Ledil Part No.
1	Cree MC-E	Diffuser	20°	711-1059-ND	2.10	FA10677_CMC-D
1	Cree MC-E	Medium	—	711-1060-ND	2.10	FA10676_CMC-M
1	Cree MC-E	Real Spot	20°	711-1062-ND	1.38	FA10679_CMC-RS
1	Cree MC-E	Smooth Spot	—	711-1063-ND	1.38	FA10678_CMC-SS
1	Cree XR-E	Medium	28°	711-1042-ND	1.38	FA10305_CRS-M
1	Cree XR-E	Oval	12° x 48°	711-1043-ND	1.38	FA10306_CRS-O
1	Cree XR-E	Real Spot	12°	711-1044-ND	1.38	FA10303_CRS-RS
1	Cree XR-E	Smooth Spot	14°	711-1045-ND	1.38	FA10328_CRS-SS
1	Cree XR-E	Wide	60°	711-1046-ND	2.10	FA10343_CRS-W-V5
1	Cree XP-E	Oval	14° x 42°	711-1037-ND	1.38	FA10669_CXP-O
1	Cree XP-E	Real Spot	8°	711-1038-ND	1.38	FA10668_CXP-RS
1	Cree XP-E	Wide	—	711-1040-ND	1.38	FA10708_CXP-W
1	OSS Dragon Square	Real Spot	6°	711-1000-ND	1.38	FA10299_OSS-RS
1	OSS Dragon Square	Smooth Spot	14°	711-1001-ND	1.38	FA10327_OSS-SS
1	OSS Dragon Square	Diffuser	12°	711-1002-ND	1.38	FA10300_OSS-D
1	OSS Dragon Square	Medium	12°	711-1003-ND	1.38	FA10301_OSS-M
1	OSS Dragon Square	Wide	60°	711-1004-ND	1.38	FA10342_OSS-W
1	OSS Dragon Square	Oval	12° x 48°	711-1005-ND	1.38	FA10302_OSS-O
2	Titanum Dragon	Smooth Spot	14°	711-1006-ND	2.10	C10318_TITANUM-O-SS
2	Titanum Dragon	Wide	70°	711-1008-ND	2.10	C10244_TITANUM-O-W
2	Cree XLAMP XR-C and XR-E	Medium	26°	711-1051-ND	1.38	C10250_ROCKET-M
2	Cree XLAMP XR-C and XR-E	Smooth Spot	8°	711-1053-ND	1.38	C10324_ROCKET -SS
2	Cree XLAMP XR-C and XR-E	Wide	38°	711-1054-ND	1.38	C10406_ROCKET-W
3	Titanum-3 Dragon	Spot	14°	711-1009-ND	1.98	C10268_TITANUM-3-SS
4	Ledilstar-L Ostar®	Lighting Spot	12°	711-1012-ND	1.62	C10265_LEDILSTAR-L-S
4	Ledilstar-L Ostar®	Lighting Wide	32°	711-1013-ND	1.62	C10266_LEDILSTAR-L-W
4	Ledilstar-L Ostar®	Lighting Wide	32°	711-1018-ND	3.20	LEDILSTAR-L-W-2
4	Ledilstar-P Ostar	Projection Spot	12°	711-1014-ND	1.62	C10271_LEDILSTAR-P-S
4	Ledilstar-P Ostar	Projection Mixing SUB Lens	14°	711-1015-ND	1.62	CA10317_LEDILSTAR-P-SUB
5	Lisa Dragon	Medium	20°	711-1019-ND	2.10	CA10444_LISA-01-SS
5	Lisa Dragon	Smooth Spot	19°	711-1028-ND	1.12	CA10641_LISA-XP-SS
6	Tina Cree XP-E	Diffuser	6.5°	711-1029-ND	1.38	FA10644_TINA-XP-D
6	Tina Cree XP-E	Medium	15°	711-1030-ND	1.38	FA10645_TINA-XP-M
7	Cree MC-E	Smooth Spot	20°	711-1065-ND	1.22	CA10716_BOOM-MC-S
7	Cree MC-E	Medium	38°	711-1066-ND	1.22	CA10928_BOOM-MC-M
7	Cree MC-E	Wide	68°	711-1067-ND	1.22	CA10929_BOOM-MC-W
8	Cree MC-E	Diffuser	16°	711-1068-ND	1.38	C10684_EVA-MC-D
8	Cree MC-E	Medium	22°	711-1069-ND	1.38	C10685_EVA-MC-M
8	Cree MC-E	Wide	36°	711-1070-ND	1.38	C10686_EVA-MC-W
9	Cree XLAMP XR-E	Real Spot	6°	711-1047-ND	1.38	FA10653_LC1-RS
10	Cree XLAMP XR-E	Diffuser	20°	711-1048-ND	1.38	FA10655_LC1-D
11	Cree XLAMP XR-E	Medium	28°	711-1049-ND	1.38	FA10652_LC1-M
12	Cree XLAMP XR-E	Rectangular	42° x 22°	711-1050-ND	1.38	FA10654_LC1-REC
9	OSS Diamond Dragon	Real Spot	8°	711-1024-ND	1.12	FA10796_LD1-RS
10	OSS Diamond Dragon	Diffuser	6°	711-1025-ND	1.12	FA10798_LD1-D
11	OSS Diamond Dragon	Medium	24°	711-1026-ND	1.12	FA10795_LD1-M
12	OSS Diamond Dragon	Rectangular	40° x 24°	711-1027-ND	1.12	FA10797_LD1-REC
9	Cree MC-E	Real Spot	—	711-1055-ND	1.38	FA10613_LM1-RS
10	Cree MC-E	Diffuser	20°	711-1056-ND	1.38	FA10650_LM1-D
11	Cree MC-E	Medium	25°	711-1057-ND	1.38	FA10614_LM1-M
12	Cree MC-E	Rectangular	38° x 24°	711-1058-ND	1.38	FA10615_LM1-REC
9	OSS Dragon/Dragon Plus	Real Spot	—	711-1020-ND	1.38	FA10751_LO2-RS
10	OSS Dragon/Dragon Plus	Diffuser	12°	711-1021-ND	1.38	FA10753_LO2-D
11	OSS Dragon/Dragon Plus	Medium	24°	711-1022-ND	1.38	FA10750_LO2-M
12	OSS Dragon/Dragon Plus	Rectangular	36° x 20°	711-1023-ND	1.38	FA10752_LO2-REC
9	Cree XLAMP XP-E	Real Spot	6°	711-1031-ND	1.38	FA10661_LXP-RS
12	Cree XLAMP XP-E	Rectangular	—	711-1034-ND	1.38	FA10662_LXP-REC
13	Cree MC-E	Narrow Spot	11°	711-1071-ND	3.62	CA10861_IRIS
13	Cree MC-E	Medium	30°	711-1072-ND	3.62	CA10953_IRIS-M
14	Cree MC-E	Smooth Spot	15.6°	711-1073-ND	2.72	CA10961_RGBX-MC-SS
15	Cree MC-E	Medium	26°	711-1074-ND	3.90	FA10944_RGBX-MC-M
16	Cree MC-E	Oval	48° x 32°	711-1075-ND	3.90	FA10945_RGBX-MC-O

Dimensions in mm

Fig. 1

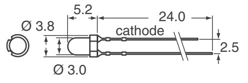

Fig. 2

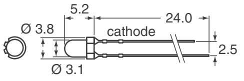

Fig. 3

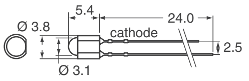

Fig. 4

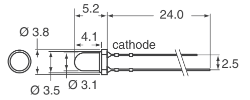

Fig. 5

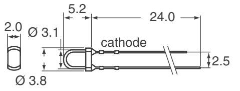

Fig. 6

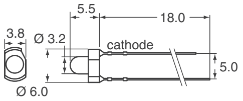

Fig. 7

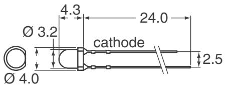

Fig. 8

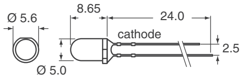

Fig. 9

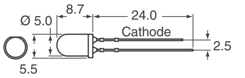

Fig. 10

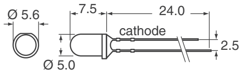

Fig.	Package Type	Emitted Color	Lens	Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
							mcd	@ IF (mA)			1	25	100	Qty.	Pricing	
1	3.0mm	Green	Water Clear	563	2.2	25	100	20	25°	511-1191-ND‡	.75	9.22	29.98	—	—	SLA-370MT3F
	3.0mm	Red	Water Clear	660	1.75	50	100	20	25°	511-1190-ND‡	.80	9.87	32.11	—	—	SLA-370LT3F
2	3.1mm	Red	Water Clear	660	1.75	50	68	20	40°	511-1188-ND‡	.61	7.48	24.32	—	—	SLA-360LT3F
3	3.1mm	Red	Diffused	630	1.9	50	350	20	40°	511-1210-ND‡	.84	10.38	33.76	—	—	SLI-343UR3F
	3.1mm	Red	Transparent	630	1.9	50	450	20	40°	511-1211-ND‡	.84	10.38	33.76	—	—	SLI-343URC3F
	3.1mm	Orange	Diffused	611	1.9	50	350	20	40°	511-1209-ND‡	.84	10.38	33.76	—	—	SLI-343DU3F
	3.1mm	Orange	Transparent	611	1.9	50	500	20	40°	511-1208-ND‡	.80	9.80	31.87	—	—	SLI-343DC3F
	3.1mm	Yellow	Transparent	591	1.9	50	350	20	40°	511-1212-ND‡	.84	10.38	33.76	—	—	SLI-343YC3F
	3.1mm	Red	Diffused	650	2	20	16	10	40°	511-1256-1-ND§	.39	3.88	13.07	2,000	89.00/M	SLR-343VRT32
	3.1mm	Red	Transparent	650	2	20	25	10	40°	511-1255-1-ND§	.43	4.33	14.58	2,000	100.00/M	SLR-343VCT32
	3.1mm	Yellow	Diffused	585	2.1	20	10	10	40°	511-1258-1-ND§	.39	3.88	13.07	2,000	89.00/M	SLR-343YYT32
	3.1mm	Yellow	Transparent	585	2.1	20	16	10	40°	511-1257-1-ND§	.39	3.88	13.07	2,000	89.00/M	SLR-343YCT32
	3.1mm	Green	Diffused	563	2.1	25	16	10	40°	511-1254-1-ND§	.42	4.22	14.20	2,000	97.00/M	SLR-343MGT32
	3.1mm	Green	Transparent	563	2.1	25	25	10	40°	511-1253-1-ND§	.39	3.88	13.07	2,000	89.00/M	SLR-343MCT32
	3.1mm	Blue	Transparent	468	3.2	25	470	20	50°	511-1611-ND‡	.86	10.58	35.88	—	—	SLR343BC7T3F
	3.1mm	Green	Water Clear	518	3.8	20	2,000	20	40°	511-1367-ND‡	2.37	34.94	119.14	—	—	SLR343ECT3F
	3.1mm	Green	Water Clear	468	3.5	30	1,500	20	40°	511-1512-ND‡	2.10	29.96	103.65	—	—	SLR343EC4T3F
	3.1mm	Blue	Water Clear	468	3.5	20	600	20	40°	511-1368-ND‡	2.28	33.64	114.71	—	—	SLR343BCT3F
	3.1mm	White	Transparent	—	3.2	25	680	20	40°	511-1612-ND‡	1.48	18.05	61.22	—	—	SLR343WBC7T3
	3.1mm	White	Water Clear	—	3.2	25	680	20	40°	511-1638-ND‡	1.22	15.21	51.58	—	—	SLR343WBC7T31
	3.1mm	White	Water Clear	—	3.2	30	3,300	20	40°	511-1635-1-ND	4.55	33.47	117.13	2,000	954.00/M	SLR343WBD2PT21
	3.1mm	White	Water Clear	—	3.2	30	3,300	20	40°	511-1636-ND‡	2.97	21.85	76.48	—	—	SLR343WBD2PT31
	3.1mm	Red	White Diffused	650	2	16	10	40	40°	511-1250-ND‡	.55	6.37	18.50	—	—	SLR-342VR3F
4	3.1mm	Red	Transparent	650	2	20	25	10	40°	511-1249-ND‡	.55	5.49	18.50	—	—	SLR-342VC3F
	3.1mm	Orange	Diffused	610	2	20	16	10	40°	511-1246-ND‡	.55	5.49	18.50	—	—	SLR-342DU3F
	3.1mm	Orange	Transparent	610	2	20	25	10	40°	511-1245-ND‡	.55	5.49	18.50	—	—	SLR-342DC3F
	3.1mm	Yellow	Diffused	585	2.1	20	10	10	40°	511-1252-ND‡	.55	5.49	18.50	—	—	SLR-342YY3F
	3.1mm	Yellow	Transparent	585	2.1	20	16	10	40°	511-1251-ND‡	.55	5.49	18.50	—	—	SLR-342YC3F
	3.1mm	Green	Diffused	563	2.1	25	16	10	40°	511-1248-ND‡	.55	5.49	18.50	—	—	SLR-342MG3F
	3.1mm	Green	Transparent	563	2.1	25	25	10	40°	511-1247-ND‡	.55	5.49	18.50	—	—	SLR-342MC3F
5	3.1 x 2.0mm	Red	Diffused	650	2	20	10	10	55°	511-1228-ND‡	.42	5.11	15.38	—	—	SLR-322VR3F
	3.1 x 2.0mm	Red	Transparent	650	2	20	16	10	35°	511-1227-ND‡	.42	5.11	15.38	—	—	SLR-322VC3F
	3.1 x 2.0mm	Orange	Diffused	610	2	20	6.3	10	55°	511-1224-ND‡	.42	5.11	15.38	—	—	SLR-322DU3F
	3.1 x 2.0mm	Orange	Transparent	610	2	20	16	10	35°	511-1223-ND‡	.42	5.11	15.38	—	—	SLR-322DC3F
	3.1 x 2.0mm	Yellow	Diffused	585	2.1	20	10	10	55°	511-1230-ND‡	.42	5.11	15.38	—	—	SLR-322YY3F
	3.1 x 2.0mm	Yellow	Transparent	585	2.1	20	10	10	35°	511-1229-ND‡	.42	5.11	15.38	—	—	SLR-322YC3F
	3.1 x 2.0mm	Green	Diffused	563	2.1	25	10	10	55°	511-1226-ND‡	.42	5.11	15.38	—	—	SLR-322MG3F
	3.1 x 2.0mm	Green	Transparent	563	2.1	25	25	10	35°	511-1225-ND‡	.42	5.11	15.38	—	—	SLR-322MC3F
6	3.2mm	Red	Diffused	630	1.85	20	100	20	40°	511-1205-1-ND§	.76	9.36	30.46	2,000	241.00/M	SLI-325URT31W
	3.2mm	Red	Transparent	630	1.85	20	100	20	40°	511-1204-1-ND§	.76	9.36	30.46	2,000	241.00/M	SLI-325URCT31W
	3.2mm	Orange	Diffused	611	1.9	20	100	20	40°	511-1203-1-ND§	.76	9.36	30.46	2,000	241.00/M	SLI-325DUT31W
	3.2mm	Orange	Transparent	611	1.9	20	100	20	40°	511-1202-1-ND§	.76	9.36	30.46	2,000	241.00/M	SLI-325DCT31W
	3.2mm	Yellow	Diffused	590	1.9	20	100	20	40°	511-1207-1-ND§	.76	9.36	30.46	—	—	SLI-325YYT31W
	3.2mm	Yellow	Transparent	590	1.9	20	100	20	40°	511-1206-1-ND§	.76	9.36	30.46	—	—	SLI-325YCT31W
	3.2mm	Red	Diffused	650	2	20	10	10	40°	511-1234-1-ND§	.41	5.00	15.07	2,000	116.00/M	SLR-325VRT31
	3.2mm	Red	Transparent	650	2	20	16	10	40°	511-1233-1-ND§	.41	5.00	15.07	—	—	SLR-325VCT31
	3.2mm	Yellow	Diffused	585	2.1	20	6.3	10	40°	511-1236-1-ND§	.41	5.00	15.07	2,000	116.00/M	SLR-325YYT31
	3.2mm	Yellow	Transparent	585	2.1	20	16	10	40°	511-1235-1-ND§	.41	5.00	15.07	—	—	SLR-325YCT31
	3.2mm	Green	Diffused	563	2.1	25	16	10	40°	511-1232-1-ND§	.44	5.35	16.11	2,000	116.00/M	SLR-325MGT31
	3.2mm	Green	Transparent	563	2.1	25	25	10	40°	511-1231-1-ND§	.44	5.35	16.11	2,000	116.00/M	SLR-325MCT31
7	3.2mm	Red	Diffused	650	2	20	10	10	85°	511-1242-ND‡	.51	5.11	17.19	—	—	SLR-332VR3F
	3.2mm	Red	Transparent	650	2	20	10	10	75°	511-1241-ND‡	.51	5.11	17.19	—	—	SLR-332VC3F
	3.2mm	Orange	Diffused	610	2	20	10	10	85°	511-1238-ND‡	.51	5.11	17.19	—	—	SLR-332DU3F
	3.2mm	Orange	Transparent	610	2	20	16	10	75°	511-1237-ND‡	.36	3.62	12.20	—	—	SLR-332DC3F
	3.2mm	Yellow	Diffused	585	2.1	20	6.3	10	85°	511-1244-ND‡	.51	5.11	17.19	—	—	SLR-332YY3F
	3.2mm	Yellow	Transparent	585	2.1	20	10	10	75°	511-1243-ND‡	.51	5.11	17.19	—	—	SLR-332YC3F
	3.2mm	Green	Diffused	563	2.1	25	16	10	85°	511-1240-ND‡	.51	5.11	17.19	—	—	SLR-332MG3F
	3.2mm	Green	Transparent	563	2.1	25	16	10	75°	511-1239-ND‡	.51	5.11	17.19	—	—	SLR-332MC3F
8	5mm	Red	Water Clear	660	1.75	50	220	20	25°	511-1194-ND‡	.86	10.53	34.23	—	—	SLA-570LT3F
	5mm	Green	Water Clear	563	2.2	25	185	20	25°	511-1195-ND‡	.64	7.85	23.64	—	—	SLA-570MT3F
	5mm	Red	Water Clear	630	1.9	50	3,000	20	25°	511-1218-ND‡	.79	9.66	29.10	—	—	SLI-570UT3F
	5mm	Orange	Water Clear	611	1.9	50	3,000	20	25°	511-1217-ND‡	.79	9.66	29.10	—	—	SLI-570DT3F
	5mm	Yellow	Water Clear	591	1.9	50	2,500	20	25°	511-1219-ND‡	.79	9.66	29.10	—	—	SLI-570YT3F
9	5mm	Red	Diffused	650	2	20	10	10	40°	511-1264-ND‡	.53	5.31	17.89	—	—	SLR-56VR3F
	5mm	Red	Transparent	650	2	20	25	10	35°	511-1263-ND‡	.36	4.40	13.25	—	—	SLR-56VC3F
	5mm	Orange	Diffused	610	2	20	10	10	40°	511-1260-ND‡	.44	5.31	16.00	—	—	SLR-56DU3F
	5mm	Orange	Transparent	610	2	20	25	10	35°	511-1259-ND‡	.44	5.31	16.00	—	—	SLR-56DC3F
	5mm	Yellow	Diffused	585	2.1	20	10	10	40°	511-1266-ND‡	.53	5.31	17.89	—	—	SLR-56YY3F
	5mm	Yellow	Transparent	585	2.1	20	25	10	35°	511-1265-ND‡	.44	5.31	16.00	—	—	SLR-56YC3F
	5mm	Green	Diffused	563	2.1	25	16	10	40°	511-1262-ND‡	.48	4.83	16.26	—	—	SLR-56MG3F
	5mm	Green	Transparent	563	2.1	25	40	10	35°	511-1261-ND‡	.44	5.31	16.00	—	—	SLR-56MC3F
10	5mm	Blue	Water Clear	468	3.5	30	150	20	40°	511-1513-ND‡	1.75	24.27	84.93	—	—	SLA560BC4T3F
	5mm	Blue	Transparent	468	3.2	25	680	20	40°	511-1609-ND‡	.87	10.97	35.66	—	—	SLA560BC7T3F

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 11

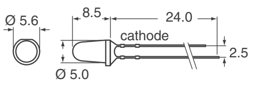

Fig. 12

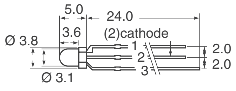

Fig. 13

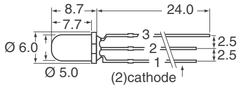

Fig. 14

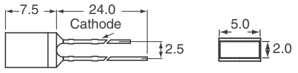

Fig. 15

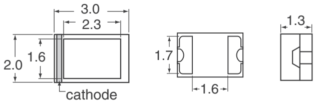

Fig. 16

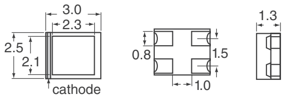

Fig. 17

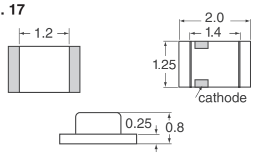

Fig. 18

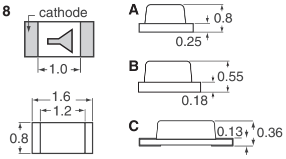

Fig. 19

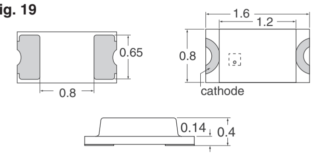

Fig. 20

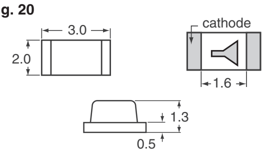

Fig. 21

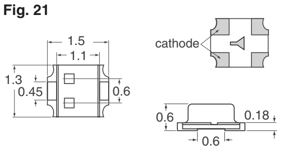

Fig. 22

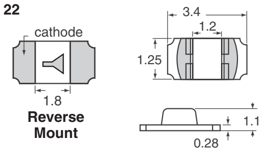

Fig.	Package Type	Emitted Color	Lens	Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
							mcd	@ IF (mA)			1	25	100	Qty.	Pricing	
10	5mm	Blue	Transparent	468	3.2	30	2,200	20	40°	511-1610-ND‡	1.59	21.43	73.49	—	—	SLA560BD2T3F
	5mm	Green	Water Clear	523	3.5	30	680	20	40°	511-1514-ND‡	2.13	29.61	103.64	—	—	SLA560EC4T3F
	5mm	Red	Water Clear	660	1.75	50	100	20	40°	511-1192-ND‡	.80	11.73	35.33	—	—	SLA-560LT3F
	5mm	Green	Water Clear	563	2.2	25	100	20	40°	511-1193-ND‡	.64	7.85	23.64	—	—	SLA-560MT3F
	5mm	White	Water Clear	—	3.2	25	1,000	20	40°	511-1628-ND‡	1.67	21.05	68.40	—	—	SLA560WBC7T2
	5mm	White	Water Clear	—	3.2	25	1,000	20	40°	511-1642-ND‡	1.61	20.17	68.40	—	—	SLA560WBC7T3
	5mm	White	Water Clear	—	3.2	30	3,300	20	40°	511-1639-1-ND§	4.00	29.44	103.04	2,000	883.00/M	SLA560WBD2PT2
	5mm	White	Water Clear	—	3.2	30	3,300	20	40°	511-1640-ND‡	2.73	36.86	129.00	—	—	SLA560WBD2PT3
	5mm	Red	Water Clear	630	1.9	50	1,000	20	40°	511-1215-ND‡	.79	9.66	29.10	—	—	SLI-560UT3F
	5mm	Orange	Water Clear	611	1.9	50	1,000	20	40°	511-1214-ND‡	.79	9.66	29.10	—	—	SLI-560DT3F
	5mm	Yellow	Water Clear	591	1.9	50	1,000	20	40°	511-1216-ND‡	.79	9.66	29.10	—	—	SLI-560YT3F
11	5mm	Blue	Water Clear	468	3.5	30	1,000	20	16°	511-1515-ND‡	1.75	24.27	84.93	—	—	SLA580BC4T3F
	5mm	Blue	Water Clear	468	3.5	20	2,500	20	12°	511-1370-ND‡	2.25	33.23	113.30	—	—	SLA580BCT3F
	5mm	Green	Water Clear	523	3.5	30	4,500	20	16°	511-1516-ND‡	2.13	29.61	103.64	—	—	SLA580EC4T3F
	5mm	Green	Water Clear	518	3.8	20	8,000	20	12°	511-1369-ND‡	2.40	35.41	120.75	—	—	SLA580ECT3F
	5mm	Red	Water Clear	660	1.75	50	470	20	10°	511-1196-ND‡	.80	11.73	35.33	—	—	SLA-580LT3F
	5mm	Green	Water Clear	563	2.2	25	470	20	10°	511-1197-ND‡	.64	7.85	23.64	—	—	SLA-580MT3F
	5mm	Red	Water Clear	630	1.9	50	5,000	20	10°	511-1221-ND‡	.79	9.66	29.10	—	—	SLI-580UT3F
	5mm	Orange	Water Clear	611	1.9	50	5,000	20	10°	511-1220-ND‡	.79	9.66	29.10	—	—	SLI-580DT3F
	5mm	Yellow	Water Clear	591	1.9	50	5,000	20	10°	511-1222-ND‡	.79	9.66	29.10	—	—	SLI-580YT3F
12	3.1mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	60°	511-1334-ND‡	.79	9.65	31.40	—	—	SPR-39MVWF
13	5mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	40°	511-1335-ND‡	.85	10.45	34.00	—	—	SPR-54MVWF
14	2.0 x 5.0mm	Orange	Diffused	610	2.0	20	1.0	10	130°	511-1605-ND‡	.60	7.36	22.16	—	—	SLB-25DU3F
	2.0 x 5.0mm	Green	Diffused	563	2.1	25	1.0	10	130°	511-1606-ND‡	.60	7.36	22.16	—	—	SLB-25MG3F
	2.0 x 5.0mm	Red	Diffused	650	2.0	20	1.0	10	130°	511-1607-ND‡	.60	7.36	22.16	—	—	SLB-25VR3F
15	3.0 x 2.0mm	Blue	Water Clear	428	3.8	20	9	20	110°	511-1328-1-ND	1.09	15.00	49.07	2,500	389.00/M	SML010BATT86
	3.0 x 2.0mm	Red	Water Clear	660	1.75	30	16	20	110°	511-1271-1-ND	.66	8.07	24.32	2,500	176.00/M	SML-010LTT86
	3.0 x 2.0mm	Red	Water Clear	650	2	30	6.3	20	110°	511-1274-1-ND	.63	7.64	23.02	2,500	166.00/M	SML-010VTT86
	3.0 x 2.0mm	Orange	Water Clear	610	2	25	10	20	110°	511-1269-1-ND	.64	7.83	23.59	2,500	171.00/M	SML-010DTT86
	3.0 x 2.0mm	Yellow	Water Clear	585	2.1	25	6.3	20	110°	511-1275-1-ND	.63	7.64	23.02	2,500	166.00/M	SML-010YTT86
	3.0 x 2.0mm	Green	Water Clear	570	2.2	25	25	20	110°	511-1272-1-ND	.63	7.64	23.02	2,500	166.00/M	SML-010MTT86
	3.0 x 2.0mm	Green	Water Clear	560	2.2	25	10	20	110°	511-1270-1-ND	.76	9.32	28.06	2,500	203.00/M	SML-010FTT86
	3.0 x 2.0mm	Green	Water Clear	555	2.2	25	6.3	20	110°	511-1273-1-ND	.64	7.85	23.64	2,500	171.00/M	SML-010PTT86
	3.0 x 2.0mm	Blue	Water Clear	468	3.5	20	25	20	110°	511-1507-1-ND	2.23	27.98	100.68	2,500	763.00/M	SML012BC4TT86
	3.0 x 2.0mm	Green	Water Clear	523	3.5	20	90	20	110°	511-1330-1-ND	2.05	30.28	102.00	—	—	SML011EBTT86
	3.0 x 2.0mm	Green	Water Clear	528	3.5	20	90	20	110°	511-1508-1-ND	2.58	32.40	116.61	2,500	884.00/M	SML012EC4TT86
	3.0 x 2.0mm	Red	Water Clear	630	2	30	63	20	110°	511-1276-1-ND	.56	6.90	22.43	2,500	167.00/M	SML-011UTT86
	3.0 x 2.0mm	Red	Water Clear	630	2	30	100	20	110°	511-1278-1-ND	.61	7.48	24.32	2,500	181.00/M	SML-012UTT86
	3.0 x 2.0mm	Orange	Water Clear	611	2	30	100	20	110°	511-1277-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-012DTT86
	3.0 x 2.0mm	Yellow	Water Clear	590	2	30	100	20	110°	511-1279-1-ND	.61	7.48	24.32	2,500	181.00/M	SML-012YTT86
	3.0 x 2.0mm	White	White Diffused	—	3.2	20	900	20	120°	511-1603-1-ND	2.77	38.53	134.84	2,500	1079.00/M	SML013WBD1
16	3.0 x 2.5mm	Red/Green	Water Clear	650/570	2/2.2	30/25	6.3/20	20	110°	511-1281-1-ND	.85	10.45	34.00	2,500	253.00/M	SML-020MVTT86
	3.0 x 2.5mm	Red/Green	Water Clear	660/570	1.75/2.2	30/25	16/20	20	110°	511-1280-1-ND	.83	10.16	33.05	2,500	246.00/M	SML-020MLTT86
	3.0 x 2.5mm	Yellow/Green	Water Clear	585/570	2.1/2.2	30/25	6.3/20	20	110°	511-1282-1-ND	.79	9.68	31.47	2,500	235.00/M	SML-020MYTT87
	3.0 x 2.5mm	Orange/Green	Water Clear	610/555	2/2.2	30/25	10/4	20	110°	511-1283-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-020PDTT87
	3.0 x 2.5mm	Blue/Red	Transparent	—	3.2/2.0	30	140/220	20	120°	511-1613-1-ND	1.90	26.34	92.17	2,500	737.00/M	SML022BUTT86R
17	0805	Bright Red	Water Clear	660	1.75	30	10	20	140°	511-1286-1-ND	.50	6.12	20.62	3,000	133.00/M	SML-210LTT86
	0805	Red	Water Clear	650	2	25	4	20	140°	511-1289-1-ND	.57	5.73	19.28	3,000	125.00/M	SML-210VTT86
	0805	Orange	Water Clear	610	2	25	6.3	20	140°	511-1284-1-ND	.45	5.53	18.61	3,000	120.00/M	SML-210DTT86
	0805	Yellow	Water Clear	585	2.1	25	6.3	20	140°	511-1290-1-ND	.47	5.73	19.28	3,000	125.00/M	SML-210YTT86
	0805	Green	Water Clear	570	2.2	25	16	20	140°	511-1287-1-ND	.53	5.33	17.95	3,000	116.00/M	SML-210MTT86
	0805	Green	Water Clear	560	2.2	25	4	20	140°	511-1285-1-ND	.47	5.73	19.28	3,000	125.00/M	SML-210FTT86
	0805	Green	Water Clear	555	2.2	25	4	20	140°	511-1288-1-ND	.47	5.73	19.28	3,000	125.00/M	SML-210PTT86
	0805	Red	Water Clear	630	1.8	10	2.5	2	140°	511-1292-1-ND	.73	8.88	26.76	3,000	193.00/M	SML-211UTT86
	0805	Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1291-1-ND	.73	8.88	26.76	3,000	193.00/M	SML-211DTT86
	0805	Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1293-1-ND	.73	8.88	26.76	3,000	193.00/M	SML-211YTT86
	0805	Orange	Water Clear	611	2.05	30	63	20	140°	511-1294-1-ND ***NEW!***	.89	13.02	39.23	3,000	266.00/M	SML-212DTT86
	0805	Red	Water Clear	639	2.05	30	63	20	140°	511-1295-1-ND	.89	13.02	39.23	3,000	266.00/M	SML-212VTT86
	0805	Yellow	Water Clear	591	2.05	30	63	20	140°	511-1296-1-ND	.89	13.02	39.23	3,000	266.00/M	SML-212YTT86
18A	0603	Bright Red	Water Clear	660	1.75	25	10	20	140°	511-1298-1-ND	.51	5.17	17.39	3,000	112.00/M	SML-310LTT86
	0603	Red	Water Clear	650	2	20	4	20	140°	511-1301-1-ND	.41	4.09	13.76	3,000	89.00/M	SML-310VTT86
	0603	Orange	Water Clear	610	2	20	6.3	20	140°	511-1297-1-ND	.38	3.87	13.04	3,000	84.00/M	SML-310DTT86
	0603	Yellow	Water Clear	585	2.1	20	6.3	20	140°	511-1302-1-ND	.38	3.87	13.04	3,000	84.00/M	SML-310YTT86
	0603	Green	Water Clear	570	2.2	20	16	20	140°	511-1299-1-ND	.45	5.24	15.22	3,000	104.00/M	SML-310MTT86

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown.

(Continued)

LEDs *(Cont.)*

Dimensions in mm

Fig. 23

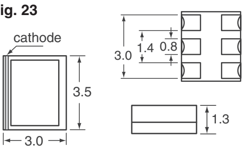

Fig. 24

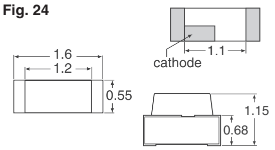

Fig. 25

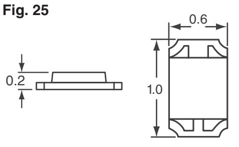

Fig. 26

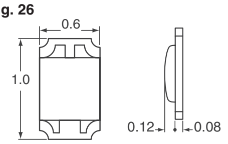

Fig. 27

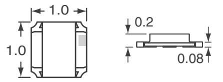

Fig. 28

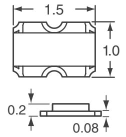

Fig. 29

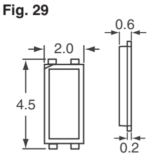

Fig. 30

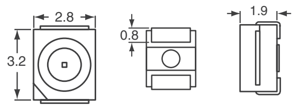

Fig. 31

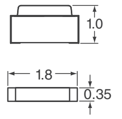

Fig. 32 ***NEW!***

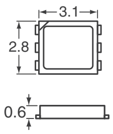

Fig. 33 ***NEW!***

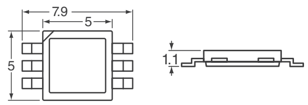

Fig.	Package Type	Emitted Color	Lens	Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
							mcd	@ IF (mA)			1	25	100	Qty.	Pricing	
18A	0603	Green	Water Clear	555	2.2	20	4	20	140°	511-1300-1-ND	.38	3.87	13.04	3,000	84.00/M	SML-310PTT86
	0603	Blue	Water Clear	428	3.8	20	3.6	20	140°	511-1331-1-ND	1.28	17.67	57.77	3,000	458.00/M	SML-310BATT86
	0603	Blue	Water Clear	468	3.5	20	14	20	140°	511-1509-1-ND	2.63	33.05	118.95	3,000	902.00/M	SML-312BC4TT86
	0603	Green	Water Clear	523	3.5	20	90	20	140°	511-1510-1-ND	3.05	38.31	137.85	3,000	1045.00/M	SML-312EC4TT86
	0603	Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1305-1-ND	.49	6.03	18.16	3,000	131.00/M	SML-311YTT86
	0603	Red	Water Clear	630	1.8	10	2.5	2	140°	511-1304-1-ND	.54	6.57	19.80	3,000	143.00/M	SML-311UTT86
	0603	Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1303-1-ND	.49	6.03	18.16	3,000	131.00/M	SML-311DTT86
	0603	Green	Water Clear	525	3.8	20	200	20	140°	511-1371-1-ND	2.54	37.54	128.00	3,000	1029.08/M	SML312ECTT86
	0603	Blue	Water Clear	468	3.5	20	63	20	140°	511-1372-1-ND	2.41	35.53	121.15	3,000	974.07/M	SML312BCTT86
	0603	White	Water Clear	—	3.3	30	200	20	140°	511-1650-1-ND	.81	9.92	33.64	3,000	250.00/M	SML312WBCW15
18B	0603	Green	Milky White	570	2.2	20	16	20	140°	511-1308-1-ND	.33	3.89	11.30	3,000	77.00/M	SML-510MWT86
	0603	Red	Water Clear	630	1.9	25	40	20	140°	511-1310-1-ND	.45	5.53	16.65	3,000	120.00/M	SML-511UWT86
	0603	Orange	White Diffused	605	2.1	20	100	20	160°	511-1577-1-ND	.33	3.57	11.04	3,000	75.00/M	SML-D12D8WT86
	0603	Orange	Water Clear	611	1.9	25	40	20	140°	511-1309-1-ND	.45	5.53	16.65	3,000	120.00/M	SML-511DWT86
	0603	Yellow	Water Clear	590	1.9	25	40	20	140°	511-1311-1-ND	.45	5.53	16.65	3,000	120.00/M	SML-511WWT86
	0603	Green	White Diffused	560	2.2	20	6.3	20	160°	511-1579-1-ND	.33	3.57	11.04	3,000	75.00/M	SML-D12P8WT86
	0603	Green	White Diffused	570	2.1	25	40	20	140°	511-1313-1-ND	.38	5.53	16.65	3,000	113.00/M	SML-512MWT86
	0603	Yellow/Green	White Diffused	572	2.2	20	25	20	160°	511-1578-1-ND	.33	3.57	11.04	3,000	75.00/M	SML-D12M8WT86
	0603	Red	White Diffused	620	2.0	20	63	20	160°	511-1580-1-ND	.33	3.57	11.04	3,000	75.00/M	SML-D12U8WT86
	0603	Red	White Diffused	630	2.0	20	40	20	160°	511-1581-1-ND	.31	3.39	10.49	3,000	71.00/M	SML-D12V8WT86
	0603	Red	Water Clear	630	2	30	63	20	140°	511-1314-1-ND	.53	7.68	23.12	3,000	157.00/M	SML-512UWT86
	0603	Orange	Water Clear	611	2	30	63	20	140°	511-1312-1-ND	.53	7.68	23.12	3,000	157.00/M	SML-512DWT86
	0603	Yellow	White Diffused	590	2.1	20	63	20	160°	511-1582-1-ND	.33	3.57	11.04	3,000	75.00/M	SML-D12Y8WT86
	0603	Yellow	Water Clear	590	2	30	63	20	140°	511-1315-1-ND	.53	6.47	19.48	3,000	141.00/M	SML-512WWT86
18C	0603	Orange	White Diffused	605	2.2	20	100	20	160°	511-1583-1-ND	.36	3.96	12.25	5,000	82.00/M	SML-E12D8WT86
	0603	Yellow/Green	White Diffused	572	2.2	20	25	20	160°	511-1584-1-ND	.36	3.96	12.25	5,000	82.00/M	SML-E12M8WT86
	0603	Green	White Diffused	560	2.2	20	6.3	20	160°	511-1585-1-ND	.37	4.05	12.43	5,000	84.00/M	SML-E12P8WT86
	0603	Red	White Diffused	620	2.2	20	63	20	160°	511-1586-1-ND	.37	4.05	12.43	5,000	84.00/M	SML-E12U8WT86
	0603	Red	White Diffused	630	2.2	20	40	20	160°	511-1587-1-ND	.37	4.05	12.43	5,000	84.00/M	SML-E12V8WT86
	0603	Yellow	White Diffused	590	2.2	20	63	20	160°	511-1588-1-ND	.37	4.05	12.43	5,000	84.00/M	SML-E12Y8WT86
	0603	Blue	Clear	470	2.9	20	22	5	160°	511-1589-1-ND	.59	7.19	23.00	5,000	167.00/M	SML-E12BC7TT86
	0603	White	White Diffused	—	2.9	20	71	5	160°/140°	511-1602-1-ND	.69	8.28	27.60	5,000	200.00/M	SMLE12WBC7W1K
19	0603	Green	White Diffused	570	2.2	25	16	20	150°	511-1306-1-ND	.32	3.19	10.74	5,000	69.00/M	SML-410MWT86
	0603	Green	Diffused	570	2.1	25	40	20	150°	511-1307-1-ND	.41	5.00	15.07	—	—	SML-412MWT86
20	3 x 2mm	Green	Water Clear	525	3.8	20	360	20	110°	511-1373-1-ND	2.53	37.36	127.39	2,500	1024.23/M	SML012ECTT86
21	1.3 x 1.5mm	Red/Green	Milky White	630/570	1.9/2.2	20/25	40/16	20	150°	511-1317-1-ND	1.00	12.34	40.14	4,000	286.00/M	SML-521MUWT86
	1.3 x 1.5mm	Orange/Green	Milky White	611/570	1.9/2.2	20/25	40/16	20	150°	511-1316-1-ND	.90	11.11	36.12	4,000	258.00/M	SML-521MDWT86
	1.3 x 1.5mm	Yellow/Green	Milky White	590/570	1.9/2.2	20/25	40/16	20	150°	511-1318-1-ND	1.00	12.34	40.14	4,000	286.00/M	SML-521MYWT86
22	3.4 x 1.25mm Reverse Mt.	Green	Water Clear	570	2.2	25	16	20	140°	511-1319-1-ND	.53	6.47	19.48	3,000	141.00/M	SML-810MTT86
	3.4 x 1.25mm Reverse Mt.	Red	Water Clear	630	1.95	25	22.4	10	140°	511-1321-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811UTT86
	3.4 x 1.25mm Reverse Mt.	Orange	Water Clear	611	1.95	25	22.4	10	140°	511-1320-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811DTT86
	3.4 x 1.25mm Reverse Mt.	Yellow	Water Clear	590	1.95	25	18	10	140°	511-1322-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811WTT86
	3.4 x 1.25mm Reverse Mt.	Blue	Water Clear	468	3.3	20	56	20	140°	511-1627-1-ND	1.74	24.33	83.42	3,000	649.00/M	SML812BCTT86
	3.4 x 1.25mm Reverse Mt.	Green	Clear	570	2.1	25	40	20	140°	511-1323-1-ND	.73	8.93	29.04	3,000	216.00/M	SML-812MTT86
23	3.5 x 3.0mm	Blue/Green/Red	Water Clear	470/530/630	3.2/3.3/2.2	20/20/30	125/500/350	20	120°	511-1608-1-ND	3.45	53.19	187.45	2,000	1581.00/M	SML032RGB1T1
24	1.6 x 1.15mm	Orange	Water Clear	611	1.9	25	63	20	130°	511-1324-1-ND	.54	6.64	20.00	—	—	SML-A12DTT86
	1.6 x 1.15mm	Green	Water Clear	570	2.1	25	40	20	130°	511-1325-1-ND	.60	7.31	22.00	3,000	149.00/M	SML-A12MTT86
	1.6 x 1.15mm	Red	Water Clear	630	1.9	25	63	20	130°	511-1326-1-ND	.58	7.07	21.30	3,000	144.00/M	SML-A12UTT86
	1.6 x 1.15mm	Yellow	Water Clear	590	1.9	25	63	20	130°	511-1327-1-ND	.60	7.31	22.00	3,000	149.00/M	SML-A12WTT86
	1.6 x 1.15mm	White	Water Clear	—	2.9	20	56	5	140°	511-1632-1-ND	.79	10.01	32.52	3,000	242.00/M	SMLA12WBC7W1A
	1.6 x 1.15mm	Blue	Transparent	470	3.2	20	140	20	140°	511-1614-1-ND	1.44	19.32	66.24	3,000	515.00/M	SMLA13BDTT86
	1.6 x 1.15mm	White	Water Clear	—	3.1	20	170	10	150°	511-1633-1-ND	.91	11.32	38.24	3,000	292.00/M	SMLA13WBDW11
	1.6 x 1.15mm	White	White Diffused	—	3.1	20	170	10	140°/160°	511-1604-1-ND	1.40	19.32	66.24	3,000	515.00/M	SMLA13WBDW13
25	0402	Orange	Transparent	605	1.8	20	7.3	1	140°	511-1651-1-ND	.44	5.15	16.19	10,000	108.00/M	SML-P11DTT86
	0402	Green	Transparent	569	1.9	20	2.1	1	140°	511-1652-1-ND	.47	5.53	17.38	10,000	116.00/M	SML-P11MTT86
	0402	Red	Transparent	621	1.8	20	5.5	1	140°	511-1653-1-ND	.44	5.15	16.19	10,000	108.00/M	SML-P11UTT86
	0402	Red	Transparent	626	1.8	20	3.6	1	140°	511-1654-1-ND	.44	5.15	16.19	10,000	108.00/M	SML-P11VTT86
	0402	Yellow	Transparent	586	1.9	20	7.6	1	140°	511-1655-1-ND	.47	5.53	17.38	10,000	116.00/M	SML-P11YTT86
26	0402	Orange	Water Clear	605	2.1	20	100	20	140°	511-1590-1-ND	.39	4.51	14.17	10,000	93.00/M	SML-P12DTT86
	0402	Yellow/Green	Water Clear	572	2.2	20	35	20	140°	511-1591-1-ND	.39	4.51	14.17	10,000	93.00/M	SML-P12MTT86
	0402	Green	Water Clear	560	2.2	20	13	20	140°	511-1592-1-ND	.39	4.51	14.17	10,000	93.00/M	SML-P12PTT86
	0402	Red	Water Clear	620	2.0	20	85	20	140°	511-1593-1-ND	.39	4.51	14.17	10,000	93.00/M	SML-P12UTT86
	0402	Red	Water Clear	630	2.0	20	60	20	140°	511-1594-1-ND	.39	4.51	14.17	10,000	93.00/M	SML-P12VTT86
	0402	Yellow	Water Clear	590	2.1	20	130	20	140°	511-1595-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12YTT86
	0402	Blue	Transparent	465	2.9	20	17	5	140°	511-1615-1-ND	.91	10.97	36.57	10,000	256.00/M	SMLP12BC7TT86
	0402	White	Transparent	—	2.9	20	71	5	145°	511-1616-1-ND	2.01	24.15	80.50	10,000	564.00/M	SMLP12WBC7W1
27	0404	Blue/Green/Red	MIlky White	470/527/624	3.2/3.3/2.2	20	50/200/100	20	120°	511-1624-1-ND	3.43	37.43	115.92	5,000	773.00/M	SMLP34RGB1W3
28	0604	Blue/Green/Red	Milky White	470/527/624	3.2/3.3/2.2	20	50/200/100	20	120°	511-1625-1-ND	4.07	44.47	137.72	5,000	918.00/M	SMLP36RGB1W3
29	1808	White	Water Clear	—	3.8	180	6.4	100	120°	511-1634-1-ND	4.00	62.10	224.94	4,000	1794.00/M	SMLK15WBFPW11P
30	2.8 x 3.2mm	Orange	Clear	605	2.2	70	710	50	120°	511-1643-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14DTT86A
	2.8 x 3.2mm	Yellow/Green	Clear	572	2.2	70	280	50	120°	511-1644-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14MTT86A
	2.8 x 3.2mm	Green	Clear	560	2.2	70	28	50	120°	511-1645-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14PTT86A
	2.8 x 3.2mm	Red	Clear	620	2.2	70	710	50	120°	511-1646-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14UTT86A
	2.8 x 3.2mm	Red	Clear	630	2.2	70	280	50	120°	511-1647-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14VTT86A
	2.8 x 3.2mm	Yellow	Clear	590	2.2	70	710	50	120°	511-1648-1-ND	.67	8.19	26.22	2,000	203.00/M	SML-Z14YTT86A
31	1.8 x 1.0mm	White	Water Clear	—	2.9	20	90	5	120°	511-1649-1-ND	.91	11.32	38.24	3,000	292.00/M	SMLF13WBDW11
32	3.1 x 2.8mm	Red/Green/Blue	Clear	624/527/470	2.1/3.3/3.3	50/40/40	700/1200/400	20	—	846-1000-1-ND ***NEW!***	2.60	38.42	129.44	1,000	1096.00	SMLV56RGB1W1
33	5 x 5mm	Red/Green/Blue	Clear	624/527/470	2.1/3.3/3.2	50/40/40	700/1200/400	20	—	846-1001-1-ND ***NEW!***	2.75	40.55	136.60	1,000	1157.00	SMLW56RGB1W1

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LED Displays

Dimensions in mm

Fig. 1

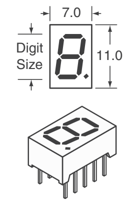

Fig. 2

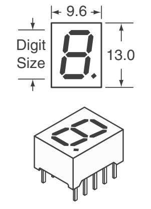

Fig. 3

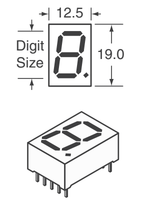

Fig. 4

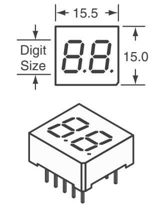

Fig. 5

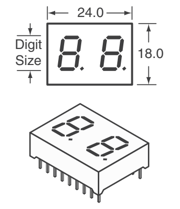

Fig. 6

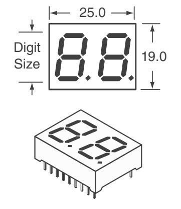

Fig. 7

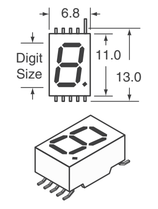

Fig.	Emitted Color	Peak Wavelength (nm)	Digit Size Inch (mm)	No. of Digits	Forward Voltage (Typ.) (V)	Forward Current (mA)	Iv (mcd) (min.)	Iv (mcd) (Typ.)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Rohm Part No.
1	Red	626	.31 (8.0)	1	2.05	25	36	90	511-1517-ND	3.20	1.75	1.57	LA-301AB
	Red	626	.31 (8.0)	1	2.05	25	36	90	511-1518-ND	3.20	1.75	1.57	LA-301AL
	Orange	610	.31 (8.0)	1	2.05	25	36	90	511-1519-ND	3.76	2.06	1.79	LA-301EB
	Orange	610	.31 (8.0)	1	2.05	25	36	90	511-1520-ND	3.76	2.06	1.79	LA-301EL
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1563-ND	2.28	1.28	1.14	LA-301MB
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1564-ND	2.28	1.28	1.14	LA-301ML
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1565-ND	2.82	1.38	1.21	LA-301VB
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1566-ND	2.40	1.35	1.20	LA-301VL
	Yellow	589	.31 (8.0)	1	2.05	25	36	90	511-1567-ND	3.76	2.06	1.79	LA-301XB
	Yellow	589	.31 (8.0)	1	2.05	25	36	90	511-1521-ND	3.76	2.06	1.79	LA-301XL
2	Red	626	.40 (10.16)	1	2.05	25	36	90	511-1522-ND	4.29	2.35	2.10	LA-401AD
	Red	626	.40 (10.16)	1	2.05	25	36	90	511-1523-ND	3.76	2.06	1.84	LA-401AN
	Blue	470	.40 (10.16)	1	3.6	10	14	56	511-1524-ND	14.79	9.55	8.79	LA-401BD
	Blue	470	.40 (10.16)	1	3.6	10	14	56	511-1525-ND	14.79	9.55	8.79	LA-401BN
	Orange	610	.40 (10.16)	1	2.05	25	36	90	511-1526-ND	4.14	2.56	2.25	LA-401ED
	Orange	610	.40 (10.16)	1	2.05	25	36	90	511-1527-ND	4.14	2.56	2.25	LA-401EN
	Green	563	.40 (10.16)	1	2.1	20	5.6	16	511-1528-ND	3.20	1.75	1.57	LA-401MD
	Green	563	.40 (10.16)	1	2.1	20	5.6	16	511-1529-ND	2.80	1.53	1.37	LA-401MN
	Red	650	.40 (10.16)	1	2.0	15	5.6	16	511-1530-ND	3.20	1.75	1.57	LA-401VD
	Red	650	.40 (10.16)	1	2.0	15	5.6	16	511-1531-ND	2.80	1.53	1.37	LA-401VN
	Yellow	589	.40 (10.16)	1	2.05	25	36	90	511-1532-ND	4.14	2.56	2.25	LA-401XD
	Yellow	589	.40 (10.16)	1	2.05	25	36	90	511-1533-ND	4.14	2.56	2.25	LA-401XN
3	Red	626	.57 (14.6)	1	2.05	25	36	90	511-1534-ND	3.90	2.41	2.12	LA-601AB
	Red	626	.57 (14.6)	1	2.05	25	36	90	511-1535-ND	3.70	2.29	2.01	LA-601AL
	Blue	470	.57 (14.6)	1	3.6	10	14	56	511-1536-ND	16.84	10.88	10.01	LA-601BB
	Blue	470	.57 (14.6)	1	3.6	10	14	56	511-1537-ND	12.99	9.38	8.34	LA-601BL
	Orange	610	.57 (14.6)	1	2.05	25	36	90	511-1538-ND	4.14	2.49	2.25	LA-601EB
	Orange	610	.57 (14.6)	1	2.05	25	36	90	511-1539-ND	4.14	2.49	2.25	LA-601EL
	Green	563	.57 (14.6)	1	2.1	20	9	22	511-1540-ND	3.20	1.80	1.57	LA-601MB
	Green	563	.57 (14.6)	1	2.1	20	9	22	511-1541-ND	3.20	1.80	1.57	LA-601ML
	Red	650	.57 (14.6)	1	2.0	20	5.6	14	511-1542-ND	3.20	1.80	1.57	LA-601VB
	Red	650	.57 (14.6)	1	2.0	20	5.6	14	511-1543-ND	3.20	1.80	1.57	LA-601VL
	Yellow	589	.57 (14.6)	1	2.05	25	36	90	511-1544-ND	4.14	2.56	2.25	LA-601XL
	Yellow	589	.57 (14.6)	1	2.05	25	36	90	511-1571-ND	4.69	2.90	2.55	LA-601XB
4	Green	563	.30 (7.62)	2	2.1	20	2.2	6.3	511-1545-ND	4.45	2.68	2.42	LB-302MF
	Green	563	.30 (7.62)	2	2.1	20	2.2	6.3	511-1546-ND	7.72	5.21	4.59	LB-302MP
	Red	650	.30 (7.62)	2	2.0	15	2.2	6.3	511-1548-ND	6.35	3.67	3.28	LB-302VP
5	Orange	610	.40 (10.16)	2	2.0	15	3.6	10	511-1549-ND	5.07	3.05	2.76	LB-402DN
	Orange	610	.40 (10.16)	2	2.0	15	3.6	10	511-1550-ND	5.07	3.05	2.76	LB-402DD
	Green	563	.40 (10.16)	2	2.1	20	9.0	25	511-1551-ND	7.11	4.10	3.68	LB-402MD
	Green	563	.40 (10.16)	2	2.1	20	9.0	25	511-1552-ND	7.11	4.10	3.68	LB-402MN
	Red	650	.40 (10.16)	2	2.0	15	5.6	16	511-1553-ND	7.11	4.10	3.68	LB-402VD
	Red	650	.40 (10.16)	2	2.0	15	5.6	16	511-1554-ND	7.11	4.10	3.68	LB-402VN
6	Red	626	.56 (14.3)	2	2.05	25	36	90	511-1556-ND	6.11	3.53	3.16	LB-602AK2
	Blue	470	.56 (14.3)	2	3.6	10	14	56	511-1557-ND	26.11	18.50	16.76	LB-602BA2
	Blue	470	.56 (14.3)	2	3.6	10	14	56	511-1558-ND	26.11	18.50	16.76	LB-602BK2
	Green	563	.56 (14.3)	2	2.1	20	9	25	511-1559-ND	4.28	2.57	2.33	LB-602MA2
	Green	563	.56 (14.3)	2	2.1	20	9	25	511-1560-ND	4.28	2.57	2.33	LB-602MK2
	Red	650	.56 (14.3)	2	2.0	20	5.6	16	511-1562-ND	4.28	2.57	2.33	LB-602VK2
7	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1568-1-ND†	3.69	2.28	2.01	LF-301MA
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1568-2-ND▲		1723.00/1,000		LF-301MA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1569-1-ND†	3.24	2.00	1.77	LF-301VA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1569-2-ND▲		1513.00/1,000		LF-301VA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1570-1-ND†	3.24	2.00	1.77	LF-301VK
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1570-2-ND▲		1513.00/1,000		LF-301VK

† Cut Tape ▲ Tape and Reel

LED Dot Matrix Displays

Dimensions in mm

Fig. 1

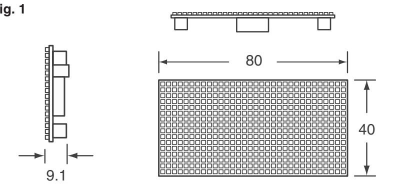

Fig. 2

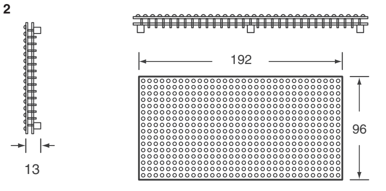

Fig. 3

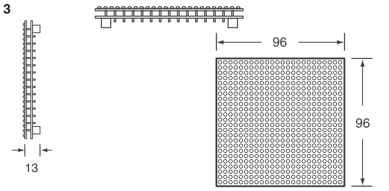

Fig	Matrix	Emitted Color	Lens	Wavelength (nm)	Foward Voltage (Typ.) (V)	Output (Candelas)	View Angle	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Rohm Part No.
1	16x32	Red/Green	Dome	630/570	5	100/200	160°	511-1572-ND	296.24	245.33	231.44	LUM-512CMU300
2	16x32	Red/Green	Dome	624/571	5	250/200	140°	511-1574-ND	170.78	142.32	131.97	LPM-5123MU350
3	24x24	Red/Green	Dome	624/571	5	300/300	140°	511-1575-ND	170.78	142.32	131.97	LPM-5763MU301

High Brightness LEDs

Dimensions in mm

Fig. 1

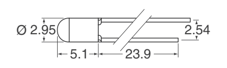

Fig. 2

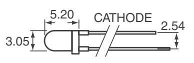

Fig. 3

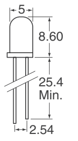

Fig. 4

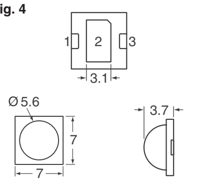

Fig. 5

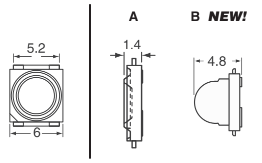

Fig. 6

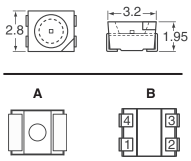

Fig. 7

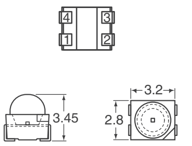

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.)		Viewing Angle (°)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		TT/OPTEK Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	100	250		Qty.	Pricing	
Round — Wide Viewing Angles																
1	3	InGaN	Blue	470	Water Clear	900	20	45	365-1173-ND	.52	.27	—	—	—	—	OVLBB4C7
	3	InGaN	Green	525	Water Clear	2000	20	45	365-1174-ND	.58	.30	—	—	—	—	OVLBG4C7
	3	AlInGaP	Yellow	589	Water Clear	2400	20	45	365-1176-ND	.30	.16	.15	—	—	—	OVLBY4C7
	3	AlInGaP	Red	623	Water Clear	1800	20	45	365-1175-ND	.30	.16	.15	—	—	—	OVLBR4C7
Round — High Intensity																
2	3	InGaN	White	—	Water Clear	3500	20	45	365-1467-ND	.63	.33	.32	—	—	—	OVLAW4CB7
3	5	InGaN	White	—	Water Clear	18000	20	15	365-1177-ND	.91	.47	.46	—	—	—	OVLEW1CB9
Square — Power Surface Mount																
4	7	InGaN	White	—	Water Clear	350	23	70	365-1220-1-ND‡	11.28	7.29	6.25	—	—	—	OVSPW7CR8
5A	6	—	White	—	Water Clear	90(lm)	350	120	365-1507-1-ND‡	3.52	1.83	1.81	365-1507-2-ND	2,000	1450.00/M	OVSPW1BCR4
	6	InGaN	White	—	Water Clear	18000	350	120	365-1346-1-ND‡	3.74	2.42	2.07	—	—	—	OVSPWBCR4
	6	InGaN	Blue	470	Water Clear	3400	350	120	365-1343-1-ND‡	4.16	2.69	2.31	—	—	—	OVSPBBCR4
	6	InGaN	Green	530	Water Clear	18200	350	120	365-1344-1-ND‡	4.84	3.13	2.69	—	—	—	OVSPGBCR4
	6	AlInGaP	Amber	587	Water Clear	11250	400	120	365-1342-1-ND‡	2.60	1.68	1.44	—	—	—	OVSPYBCR4
5B	6	—	White	—	Water Clear	70000	350	60	365-1551-1-ND‡✔	4.29	2.78	2.38	365-1551-2-ND✔	1,000	1890.00	OVSPW1BCR44
Top View Surface Mount — PLCC2 Package																
6A	—	InGaN	White	—	Water Clear	750	20	120	365-1361-1-ND‡	.65	.42	.36	365-1361-2-ND	2,000	270.00/M	OVS9WBCR4
Top View Surface Mount — PLCC4 Package																
6B	8	InGaN	White	—	Water Clear	1050	30	120	365-1363-1-ND‡	.81	.53	.45	365-1363-2-ND	2,000	340.00/M	OVSAWBCR4
	8	InGaN	Blue	470	Water Clear	550	30	120	365-1555-1-ND‡✔	.68	.45	.34	365-1555-2-ND✔	2,000	300.00/M	OVSA1BBC2R8
	8	InGaN	Green	527	Water Clear	1800	30	120	365-1556-1-ND‡✔	.72	.47	.36	365-1556-2-ND✔	2,000	320.00/M	OVSA1GBC2R8
	8	AlInGaP	Amber	591	Water Clear	1500	50	120	365-1554-1-ND‡✔	.46	.30	.23	365-1554-2-ND✔	2,000	200.00/M	OVSA1ABC2R8
	8	AlInGaP	Amber	591	Water Clear	700	50	120	365-1206-1-ND‡	.68	.45	.38	—	—	—	OVSAABC2R8
	8	AlInGaP	Red	624	Water Clear	1600	50	120	365-1557-1-ND‡✔	.46	.30	.23	365-1557-2-ND✔	2,000	200.00/M	OVSA1SBC2R8
Top View Surface Mount with Domed Lens — PLCC4 Package																
7	8	AlInGaP	Amber	591	Water Clear	5000	50	60	365-1558-1-ND‡✔	.52	.34	.26	365-1558-2-ND✔	700	168.00	OVSA1ABLCR8
	8	AlInGaP	Red-Orange	618	Water Clear	2800	50	60	365-1211-1-ND‡	.72	.47	.40	—	—	—	OVSAQBLCR8
	8	AlInGaP	Red	624	Water Clear	3700	50	60	365-1559-1-ND‡✔	.52	.34	.26	365-1559-2-ND✔	700	168.00	OVSA1SBLCR8
Round — High Brightness																
8	5	InGaN	Blue	470	Water Clear	1350	20	30	365-1180-ND	.52	.27	—	—	—	—	OVLFB3C7
	5	InGaN	Green	525	Water Clear	5200	20	30	365-1181-ND	.58	.30	—	—	—	—	OVLFG3C7
	5	AlInGaP	Yellow	589	Water Clear	5700	20	30	365-1183-ND	.30	.16	.15	—	—	—	OVLFY3C7
	5	AlInGaP	Red	623	Water Clear	5000	20	30	365-1182-ND	.30	.16	.15	—	—	—	OVLFR3C7
Round — High Intensity																
9	5	InGaN	Blue	470	Water Clear	3200	20	6	365-1184-ND	.52	.27	—	—	—	—	OVLGB0C6B9
	5	InGaN	Blue-Green	505	Water Clear	8000	20	6	365-1185-ND	.61	.31	—	—	—	—	OVLGC0C6B9
	5	AlInGaP	Yellow	589	Water Clear	20000	20	6	365-1190-ND	.19	.10	—	—	—	—	OVLGY0C9B9
	5	AlInGaP	Red	631	Water Clear	10000	20	6	365-1189-ND	.19	.10	—	—	—	—	OVLGS0C8B9
Cylindrical — High Intensity																
10	5	InGaN	Blue	470	Water Clear	300	20	85	365-1201-ND	.52	.27	—	—	—	—	OVLLB8C7
	5	InGaN	Green	525	Water Clear	670	20	85	365-1202-ND	.58	.30	—	—	—	—	OVLLG8C7
	5	AlInGaP	Yellow	589	Water Clear	650	20	85	365-1204-ND	.30	.16	.15	—	—	—	OVLLY8C7
	5	AlInGaP	Red	623	Water Clear	570	20	85	365-1203-ND	.30	.16	.15	—	—	—	OVLLR8C7
Super Flux 4-Pin																
11	7.6	InGaN	Blue	470	Water Clear	2500(mlm)	30	70	365-1553-ND✔	.61	.36	.34	—	—	—	OVFSB7C8
	7.6	InGaN	Green	527	Water Clear	6500(mlm)	30	70	365-1552-ND✔	.69	.40	.39	—	—	—	OVFSG7C8
	7.6	AlInGaP	Amber	591	Water Clear	5000	70	100	365-1163-ND	.41	.21	—	—	—	—	OVFSAAC8
	7.6	AlInGaP	Red	624	Water Clear	4500	70	100	365-1167-ND	.39	.20	—	—	—	—	OVFSRAC8
	7.6	InGaN	White	—	Water Clear	1200	30	60	365-1168-ND	.72	.37	—	—	—	—	OVFSW6C8

‡ Cut Tape ✔ ***NEW!***

Full Color (RGB) Surface Mount

Fig.	Lens Color	IV (mcd)				Viewing Angle (°)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TT/OPTEK Part No.
		@ IF(mA)	Typical Red	Typical Green	Typical Blue			1	100	250		Qty.	Pricing	
PLCC4														
12	Water Clear	20	300	450	110	120	365-1212-1-ND	1.59	1.03	.89	365-1212-2-ND	500	340.00	OVSARGB3R8

Fig. 8

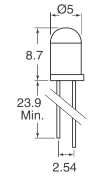

Fig. 9

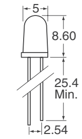

Fig. 10

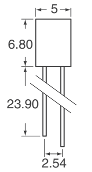

Fig. 11

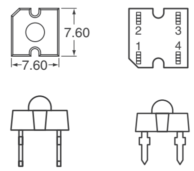

Fig. 12

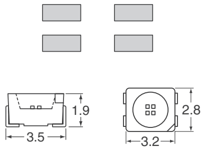

Fig. 13

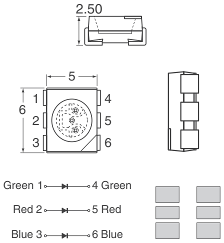

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Brightness LEDs

Full Color (RGB) Surface Mount *(Cont.)*

Fig.	Lens Color	IV (mcd) @ IF(mA)	IV (mcd) Typical Red	IV (mcd) Typical Green	IV (mcd) Typical Blue	Viewing Angle (°)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 100	Cut Tape Price Each 250	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TT/OPTEK Part No.
							PLCC6							
13	Water Clear	50	1000	900	280	120	365-1231-1-ND	2.63	1.71	1.46	365-1231-2-ND	900	1017.00	OVSTRGBBCR8
							1204							
14	White Diffused	20	125	300	75	150	365-1410-1-ND	.94	.61	.53	365-1410-2-ND	2,000	400.00/M	OVSRRGBCC3

White Surface Mount

Fig.	Package	Material	Chip Emitted Color	Lens Color	Luminous Intensity (Typical) (mcd)	Luminous Intensity (Typical) @IF(mA)	Viewing Angle (°)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 100	Cut Tape Price Each 250	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TT/OPTEK Part No.
15	RA	GaN	White	Water Clear	2350	20	120/110	365-1550-1-ND✔	1.01	.66	.56	365-1550-2-ND✔	3,000	430.00/M	OVSRWAC2R6
16	PLCC4	InGaN	White	Water Clear	1900	20	120	365-1215-1-ND	4.15	2.68	2.30	365-1215-2-ND	2,000	1786.40/M	OVSAWBCR9

✔ ***NEW!***

1-Watt Cup Series

OPTEK Lednium Solid State Lighting products package the highest quality LED chips. Typically, the lumen output of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being emitted after a specified operating time. This prediction is based on specific test results and tests on similar materials, and relies on strict observation of the design limits and ratings. **Specifications:** • Input Current: 1.0A • Junction Temperature: Tj = 130°C • Viewing Angle at half maximum intensity: 135°

Fig.	Mounting Type	Typical λD (nm)	Emitted Color	Typical Iv/flux (lm)	Forward Voltage (Vf) Minimum	Forward Voltage (Vf) Typical	Forward Voltage (Vf) Maximum	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 100	Cut Tape Price Each 250	TT/OPTEK Part No.
17	Flush	460	Blue	15	2.9	3.4	3.7	365-1348-1-ND	4.26	2.76	2.36	OVTL01LGAB
	Flush	—	Cool White	50	2.9	3.4	3.7	365-1351-1-ND	4.39	2.84	2.43	OVTL01LGAW
	Flush	—	Daylight White	45	2.9	3.4	3.7	365-1352-1-ND	4.39	2.84	2.43	OVTL01LGAWD
	Flush	—	Warm White	30	2.9	3.4	3.7	365-1353-1-ND	4.39	2.84	2.43	OVTL01LGAWW
	Standard	595	Amber	38	1.9	2.3	2.6	365-1354-1-ND	3.61	2.34	2.00	OVTL01LGAAS
	Standard	460	Blue	15	2.9	3.4	3.7	365-1355-1-ND	4.26	2.76	2.36	OVTL01LGABS
	Standard	515	Green	52	3.2	3.6	4.0	365-1356-1-ND	4.26	2.76	2.36	OVTL01LGAGS
	Standard	—	Cool White	50	2.9	3.4	3.7	365-1358-1-ND	4.39	2.84	2.43	OVTL01LGAWS
	Standard	—	Daylight White	45	2.9	3.4	3.7	365-1359-1-ND	4.39	2.84	2.43	OVTL01LGAWDS
	Standard	—	Warm White	30	2.9	3.4	3.7	365-1360-1-ND	4.39	2.84	2.43	OVTL01LGAWWS
						Optimal IV						
18	—	625	Red	35	—	2.5	—	365-1508-ND†	18.59	9.66	9.52	OV4ZRGBA
	—	532	Green	30	—	3.9	—					
	—	458	Blue	5	—	3.6	—					
	—	590	Amber	36	—	2.5	—					
						NEW! Optimal XIV Star NEW!						
19	—	6500K	Cool White	650	—	10.0	—	365-1527-ND†	31.54	30.28	29.11	OV14ZW-3
	—	5400K	Daylight White	650	—	10.0	—	365-1528-ND†	33.79	32.44	31.19	OV14ZWD-3
	—	3300K	Warm White	550	—	10.0	—	365-1529-ND†	33.79	32.44	31.19	OV14ZWW-3

† Tube

Ultraviolet Metal Can LED

Fig.	Emission Angle	Typical Forward Voltage (Vf)	Continuous Forward Current (mA)	Peak Wavelength (nm)	Minimum Optical Power Output (mW)	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT/OPTEK Part No.
20	18	3.3	100	385 ~ 390	1.8	365-1511-ND	11.87	11.40	10.96	OUE8A390Y1
	18	3.3	100	390 ~ 395	3.1	365-1512-ND	11.87	11.40	10.96	OUE8A395Y1
	18	3.3	100	395 ~ 400	5.8	365-1513-ND	11.87	11.40	10.96	OUE8A400Y1
	18	3.3	100	400 ~ 405	5.8	365-1514-ND	11.87	11.40	10.96	OUE8A405Y1
	18	3.3	100	405 ~ 410	5.8	365-1515-ND	11.87	11.40	10.96	OUE8A410Y1
	18	3.3	100	410 ~ 415	7.3	365-1516-ND	11.87	11.40	10.96	OUE8A415Y1
	18	3.3	100	415 ~ 420	7.3	365-1517-ND	11.87	11.40	10.96	OUE8A420Y1
	18	3.3	100	420 ~ 425	7.3	365-1518-ND	11.87	11.40	10.96	OUE8A425Y1

Dimensions in mm

Fig. 14

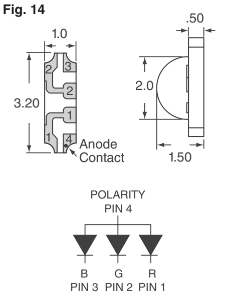

Fig. 15 ***NEW!***

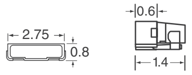

Fig. 16

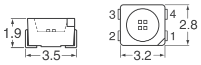

Fig. 17

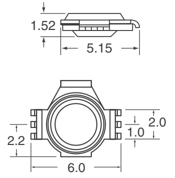

Fig. 18

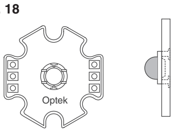

Fig. 19 ***NEW!***

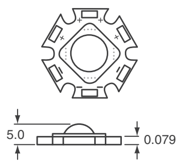

Fig. 20

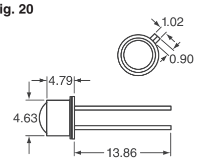

Power Line Designer Kit

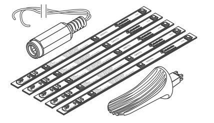

The self-contained Power Line Designer Kit is a flexible and scalable lighting solution using mid-power LEDs to supply high luminous flux without additional heatsinking requirements. The kit includes components and instructions to allow a designer to configure LED placement as needed for uniform illumination in an application. With a 15-volt power supply, the Power Line Kit is a total lighting solution. **Applications:** • Architectural accent lighting • Under-counter lighting • Media illumination • Lighting for large channel letters • Backlighting for light boxes • Point-of-sale displays **Kit includes:** • Five PCBs 8" in length • Populated with three 0.5-watt white LEDs • Wire harness with connector • Hand insertion tool

365-1483-ND (OVPL5W3K) **$35.10**

10-Watt LED Array

OPTEK Lednium Solid State Lighting products package the highest quality LED chips. Typically, the lumen output of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being emitted after a specified operating time. This prediction is based on specific test results and on tests on similar materials, and relies on strict observation of the design limits and ratings. **Specifications:** • Input Current: 1.05A • Junction Temperature: Tj = 25°C • Viewing Angle at half maximum intensity: 120°

Typical λD (nm)	Emitted Color	Typical Iv/flux (lm)	Forward Voltage (Vf) Minimum	Forward Voltage (Vf) Typical	Forward Voltage (Vf) Maximum	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT/OPTEK Part No.
625	Red	230	5.7	6.9	7.8	365-1385-ND	40.87	21.23	20.93	OVTL09LG3R
—	Cool White	250	8.7	10.2	11.1	365-1386-ND	48.32	25.10	24.75	OVTL09LG3W
—	Daylight White	275	8.7	10.2	11.1	365-1398-ND	48.32	25.10	24.75	OVTL09LG3WD
—	Warm White	230	8.7	10.2	11.1	365-1397-ND	48.32	25.10	24.75	OVTL09LG3WW

Dimensions in mm

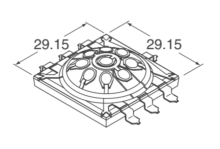

(Continued)

LED Arrays

Fig. 1

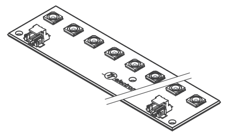

Fig. 2

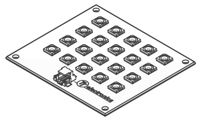

Fig. 3

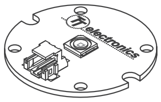

Fig. 4

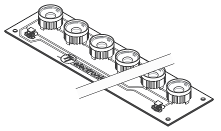

Fig. 5

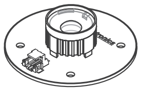

Fig.	Emitted Color	Forward Current (mA)	Lens Type	Wavelength (°K)	Forward Voltage (Vf)	Luminous Flux (lm)	Beam Angle (°)	Digi-Key Part No.	Price Each 1	100	250	TT/OPTEK Part No.
1	White	700	Flat	6500	18.0	480	120	365-1365-ND	58.27	33.91	32.60	OPA729W
2	White	1400	Flat	6500	18.0	960	120	365-1369-ND	103.70	60.35	58.02	OPA731W
	White	1400	Dome	6500	18.0	960	40	365-1370-ND	122.38	71.20	68.47	OPA731WD
3	White	350	Dome	6500	3.6	48	40	365-1372-ND	11.96	6.96	6.70	OPA733WD
4	White	700	Flat	6500	18.0	408	23	365-1375-ND	109.70	63.83	61.37	OPA740W23
5	White	350	Flat	6500	3.6	41	23	365-1377-ND	17.00	9.89	9.51	OPA742W23

Surface Mount Power Devices and Lenses

Power LEDs

Fig. 1

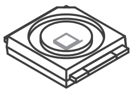

Fig. 2

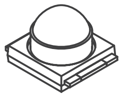

Fig. 3

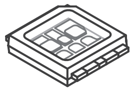

Fig. 4 ***NEW!***

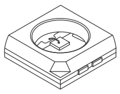

Fig.	Emitted Color	Lens Type	Viewing Angle (°)	Forward Voltage Typ. (Vf)	Forward Current (mA)	Typical Luminous Flux (lm)	Digi-Key Part No.	Cut Tape Price Each 1	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TT/OPTEK Part No.
1	White	Flat	120	3.2	180	21	365-1390-1-ND	2.08	1.35	1.16	365-1390-2-ND	2,000	880.00/M	OVS5WBCR4
2	White	Dome	60	3.6	120	7	365-1388-1-ND	3.25	2.10	1.80	—	—	—	OVS3WBCR44
	White	Dome	60	3.6	350	52	365-1394-1-ND	4.75	3.07	2.63	—	—	—	OVSPWBCR44
	Red	Dome	40	2.2	175	8	365-1389-1-ND	1.33	.86	.74	—	—	—	OVS5R4CR44
	Red	Dome	40	2.5	400	30	365-1392-1-ND	2.76	1.79	1.53	365-1392-2-ND	1,000	1160.00	OVSPRBCR44
3	RGB	Flat	130	2.3/3.5/3.5	3 x 250	21/32/7.5	365-1393-1-ND	10.53	6.81	5.84	365-1393-2-ND	1,000	4629.99	OVSPRGBCR4
4	Amber	Round, 2.6mm	120	2.2	200	—	365-1543-1-ND ***NEW!***	.32	.31	.30	—	—	—	OVS5MABCR4
	Blue	Round, 2.6mm	120	3.4	180	6	365-1544-1-ND ***NEW!***	.60	.58	.56	365-1544-2-ND ***NEW!***	1,000	520.00	OVS5MBBCR4
	Green	Round, 2.6mm	120	3.4	180	25	365-1545-1-ND ***NEW!***	.84	.80	.77	365-1545-2-ND ***NEW!***	1,000	720.00	OVS5MGBCR4
	Red	Round, 2.6mm	120	2.2	200	—	365-1546-1-ND ***NEW!***	.32	.31	.30	365-1546-2-ND ***NEW!***	1,000	280.00	OVS5MRBCR4
	White	Round, 2.6mm	120	3.6	180	25	365-1547-1-ND ***NEW!***	.52	.50	.48	365-1547-2-ND ***NEW!***	1,000	450.00	OVS5MWBCR4
	Warm White	Round, 2.6mm	120	3.6	180	25	365-1548-1-ND ***NEW!***	.52	.50	.48	365-1548-2-ND ***NEW!***	1,000	450.00	OVS5MWWBCR4
	Yellow	Round, 2.6mm	120	2.2	200	—	365-1549-1-ND ***NEW!***	.32	.31	.30	—	—	—	OVS5MYBCR4

LED Modules and Light Strips

Fig. 1

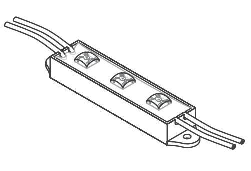

Fig. 2

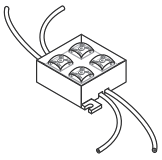

Fig. 3

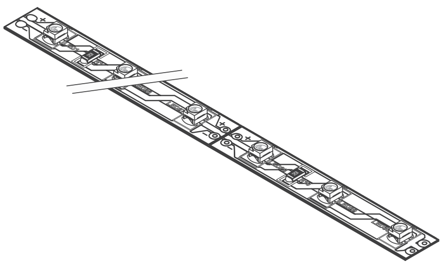

3 LED Module Strips

Fig.	Emitted Color	Lens Color	Input Voltage	Dominant Wavelength	Digi-Key Part No.	Price Each 1	100	250	TT/OPTEK Part No.
1	Blue	Clear	15	470nm	365-1491-ND	3.22	1.67	1.65	OVM12F3B7
	Green	Clear	15	525nm	365-1492-ND	3.27	1.70	1.68	OVM12F3G7
	Red	Clear	15	623nm	365-1493-ND	3.16	1.64	1.62	OVM12F3R7
	White	Clear	15	5000K ~ 7000K	365-1494-ND	3.91	2.03	2.00	OVM12F3W7
	Yellow	Clear	15	590nm	365-1495-ND	3.16	1.64	1.62	OVM12F3Y7

4 LED Module Strips

Fig.	Emitted Color	Lens Color	Input Voltage	Dominant Wavelength	Digi-Key Part No.	Price Each 1	100	250	TT/OPTEK Part No.
2	Blue	Clear	20	470nm	365-1496-ND	4.07	2.11	2.08	OVM18F4B7
	Green	Clear	20	525nm	365-1497-ND	4.15	2.16	2.13	OVM18F4G7
	Red	Clear	20	623nm	365-1498-ND	4.04	2.10	2.07	OVM18F4R7
	White	Clear	20	5000K ~ 7000K	365-1499-ND	5.83	3.03	2.99	OVM18F4W7
	Yellow	Clear	20	590nm	365-1500-ND	4.04	2.10	2.07	OVM18F4Y7

Flexible LED Light Strips

Fig.	Emitted Color	Input Voltage	Dominant Wavelength	Digi-Key Part No.	Cut Tape Price Each 1	5	Digi-Key Part No.	Tape and Reel Pricing 10	TT/OPTEK Part No.
3	Blue	13	470nm	365-1501-1-ND	19.24	16.28	365-1501-2-ND	91.10	OVQ12S30B7
	Green	13	525nm	365-1502-1-ND	20.35	17.22	365-1502-2-ND	96.30	OVQ12S30G7
	Red	13	625nm	365-1503-1-ND	17.75	15.02	365-1503-2-ND	84.00	OVQ12S30R7
	White	13	5500K	365-1504-1-ND	20.61	17.44	365-1504-2-ND	97.50	OVQ12S30W7
	Warm White	13	3300K	365-1505-1-ND	21.48	18.18	365-1505-2-ND	101.70	OVQ12S30WW7
	Yellow	13	590nm	365-1506-1-ND	17.75	15.02	365-1506-2-ND	84.00	OVQ12S30Y7

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 1

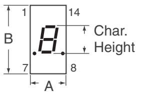

Fig. 2

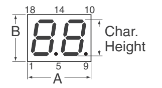

Fig. 3

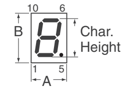

Fig. 4

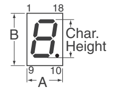

Fig. 5

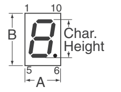

Fig. 6

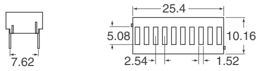

Fig. 7

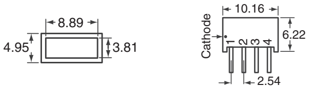

Fig. 8

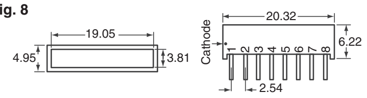

Fig. 9

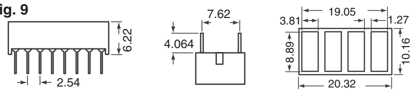

Fig. 10

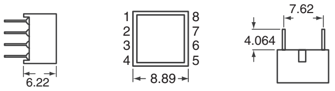

Fig. 11

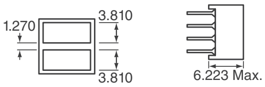

Fig. 12

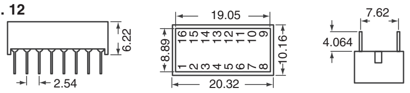

LED 7-Segment Displays *(All 7-Segment displays have a right hand decimal point unless noted otherwise.)*

Fig.	Color	Char. Height (mm)	A Width (mm)	B Height (mm)	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity µcd @ mA		Digi-Key Part No. Common Anode	Price Each 1	10	100	Avago Part No.	Digi-Key Part No. Common Cathode	Price Each 1	10	100	Avago Part No.
1	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1186-5-ND†	4.27	3.79	2.93	5082-7610	—	—	—	—	—
	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1187-5-ND	4.27	3.79	2.93	5082-7611	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1191-5-ND†	4.27	3.79	2.93	5082-7650	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1192-5-ND	4.27	3.79	2.93	5082-7651	—	—	—	—	—
	Green	10.92	12.70	19.05	2.1	30	4,000	10	516-1194-5-ND	4.27	3.79	2.93	HDSP-4601	—	—	—	—	—
	Red	10.92	12.70	19.05	1.7	15	3,900	5	516-1226-5-ND	5.11	4.53	3.51	HDSP-E101	516-1227-5-ND	5.11	4.53	3.51	HDSP-E103
2	HE Red	14.22	25.00	18.60	2.05	25	4,000	10	516-1206-5-ND	1.76	1.50	1.28	HDSP-521E	516-1207-5-ND	1.76	1.50	1.28	HDSP-523E
	Green	14.22	25.00	18.60	2.0	30	3,500	10	516-1208-5-ND	1.76	1.50	1.28	HDSP-521G	—	—	—	—	—
	HE Red	14.22	25.15	17.02	2.1	30	2,800	10	516-1216-5-ND	5.25	4.65	3.60	HDSP-5521	516-1217-5-ND	5.25	4.65	3.60	HDSP-5523
3	HE Red	14.22	12.57	17.02	2.1	30	2,800	10	516-1212-5-ND	3.50	3.10	2.40	HDSP-5501	516-1213-5-ND	3.50	3.10	2.40	HDSP-5503
	Green	14.22	12.57	17.02	2.1	30	2,500	10	516-1214-5-ND	3.50	3.10	2.40	HDSP-5601	516-1215-5-ND	3.50	3.10	2.40	HDSP-5603
	Red	14.22	12.57	17.02	1.7	15	4,200	5	516-1228-5-ND	4.20	3.72	2.88	HDSP-H101	516-1229-5-ND	4.20	3.72	2.88	HDSP-H103
	HE Red	14.22	12.57	17.02	2.1	30	2,800	10	516-2012-ND	3.39	3.11	2.38	HDSP-5501-GH000	516-2013-ND	3.39	3.11	2.38	HDSP-5503-GH000
	Yellow	14.22	12.57	17.02	2.1	20	1,800	10	516-2014-ND	3.00	2.75	2.10	HDSP-5701	—	—	—	—	—
4	HE Red	20.32	19.96	27.69	2.6	40	4,800	20	516-2011-ND†	5.22	4.79	3.66	HDSP-3900	—	—	—	—	—
	HE Red	20.32	19.96	27.69	2.6	40	4,800	20	516-1232-5-ND	6.09	5.40	4.18	HDSP-3901	516-1233-5-ND	6.09	5.40	4.18	HDSP-3903
	Green	20.32	19.96	27.69	2.1	30	1,500	10	516-1234-5-ND	6.09	5.40	4.18	HDSP-8601	516-1235-5-ND	6.09	5.40	4.18	HDSP-8603
5	HE Red	10.16	9.79	12.90	2.0	30	1,200	5	—	—	—	—	—	516-1199-5-ND	3.85	3.41	2.64	HDSP-F203
	Red	10.16	9.79	12.90	1.7	15	3,900	5	—	—	—	—	—	516-1225-5-ND	4.62	4.10	3.17	HDSP-F103
	HE Red	7.62	7.62	12.70	2.0	30	5,390	20	516-1202-5-ND	3.85	3.41	2.64	HDSP-7501	516-1203-5-ND	3.85	3.41	2.64	HDSP-7503
	Green	7.62	7.62	12.70	2.1	30	6,800	20	516-1204-5-ND	3.85	3.41	2.64	HDSP-7801	516-1205-5-ND	3.85	3.41	2.64	HDSP-7803
	Red	7.62	7.62	12.70	1.7	15	3,600	5	516-1220-5-ND	4.62	4.10	3.17	HDSP-A101	516-1221-5-ND	4.62	4.10	3.17	HDSP-A103
	HE Red	7.62	7.62	12.70	1.7	15	1,050	5	516-1222-5-ND	4.41	3.91	3.03	HDSP-7511	—	—	—	—	—
	Yellow	7.62	7.62	12.70	2.2	20	480	5	516-2015-ND	3.69	3.39	2.59	HDSP-7401	—	—	—	—	—
	HE Red	7.62	7.62	12.70	2.0	20	980	5	516-2016-ND	3.69	3.39	2.59	HDSP-7501-CD000	—	—	—	—	—
	Green	7.62	7.62	12.70	2.0	15	1,500	10	516-2017-ND	3.78	3.47	2.65	HDSP-A903	—	—	—	—	—

† Left Hand Decimal

Light Bar Graph

Fig.	LED Color	No. of Elements	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity mcd @ mA		Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
6	HE Red/Yellow/Green HE Red/Yellow/Green HE Red/Yellow/Green	10 10 10	2.1/2.2/2.1 2.1/2.2/2.1 2.1/2.2/2.1	30/20/30 30/20/30 30/20/30	3.5 1.9 1.9	10 10 10	516-1236-5-ND	8.35	7.57	6.01	HDSP-4832
	HE Red	10	2.1	30	3.5	10	516-1238-5-ND	7.00	6.20	4.80	HDSP-4830
	Red	10	1.6	15	1	1	516-1239-5-ND	8.33	7.38	5.72	HLCP-J100
	Yellow	10	2.2	20	1.9	10	516-1240-5-ND	8.33	7.38	5.72	HDSP-4840
	Green	10	2.1	30	1.9	10	516-1241-5-ND	8.33	7.38	5.72	HDSP-4850
7	HE Red	1	2.0	30	23	20	516-1243-5-ND	1.88	1.65	1.40	HLMP-2300
	HE Red	1	2.0	30	23	20	516-2097-ND	1.76	1.65	1.32	HLMP-2300-EF000
	Yellow	1	2.1	25	20	20	516-1244-5-ND	1.88	1.65	1.40	HLMP-2400
	Green	1	2.2	30	25	20	516-1245-5-ND	1.88	1.65	1.40	HLMP-2500
	Green	1	2.2	30	25	20	516-2098-ND	1.76	1.65	1.32	HLMP-2500-FG000
8	HE Red	1	2.0	30	45	20	516-1246-5-ND	3.19	2.81	2.38	HLMP-2350
	Yellow	1	2.1	25	38	20	516-1247-5-ND	3.19	2.81	2.38	HLMP-2450
	Green	1	2.2	30	50	20	516-1248-5-ND	3.19	2.81	2.38	HLMP-2550
9	Red	4	1.8	15	7.5	3	516-1249-5-ND	5.04	4.47	3.46	HLCP-E100
	Green	4	2.2	30	25	20	516-1252-5-ND	4.38	3.88	3.00	HLMP-2820
10	HE Red	1	2.0	30	45	20	516-1253-5-ND	2.81	2.48	2.10	HLMP-2655
	HE Red	1	2.0	30	45	20	516-2100-ND	2.66	2.49	2.00	HLMP-2655-EF000
	Green	1	2.2	30	50	20	516-1255-5-ND	2.81	2.48	2.10	HLMP-2855
11	HE Red	2	2.0	30	23	20	516-2099-ND	2.40	2.25	1.80	HLMP-2600
	Green	2	2.2	30	25	20	516-2103-ND	2.40	2.25	1.80	HLMP-2800
12	HE Red	1	2.0	30	80	20	516-1256-5-ND	4.38	3.88	3.00	HLMP-2685
	HE Red	1	2.0	30	80	20	516-2101-ND	4.11	3.77	2.88	HLMP-2685-EF000
	Yellow	1	2.1	25	70	20	516-1257-5-ND	3.50	3.13	2.57	HLMP-2785
	Yellow	1	2.1	25	70	20	516-2102-ND	4.11	3.77	2.88	HLMP-2785-EF000
	Green	1	2.2	30	100	20	516-1258-5-ND	4.38	3.88	3.00	HLMP-2885
	Green	1	2.2	30	100	20	516-2104-ND	4.11	3.77	2.88	HLMP-2885-FG000

Dimensions in mm

Fig. 1

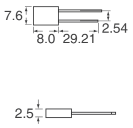

Fig. 2

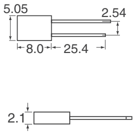

Fig. 3

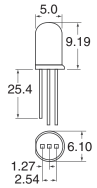

Fig. 4

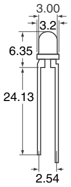

Fig. 5

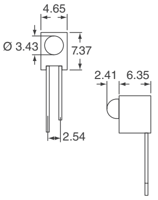

Fig. 6

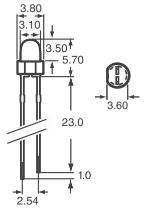

Fig. 7

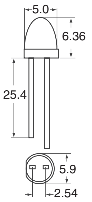

Fig. 8

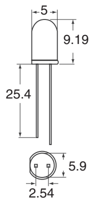

Fig. 9

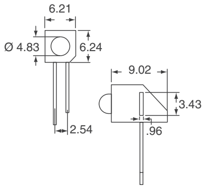

Fig. 10

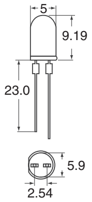

Fig. 11

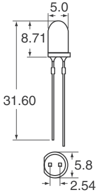

Fig. 12

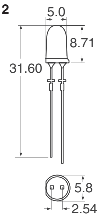

Fig. 13

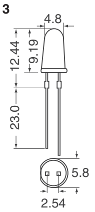

Fig. 14

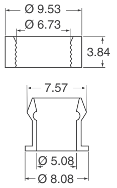

Fig. 15

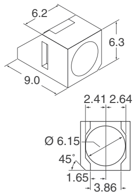

Fig. 16

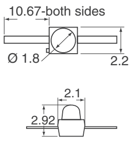

Fig. 17

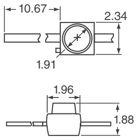

Fig. 18

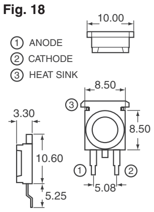

Fig. 19

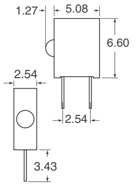

Fig. 20

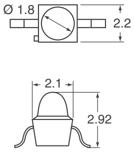

Fig. 21

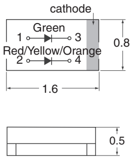

Fig. 22

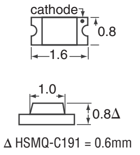

Fig. 23

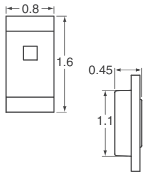

Fig. 24

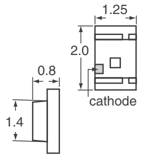

Fig. 25

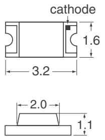

Fig. 26

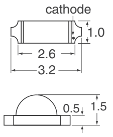

Fig. 27

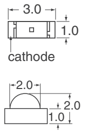

Fig. 28

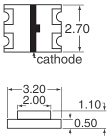

Fig. 29

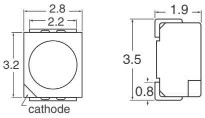

Fig. 30

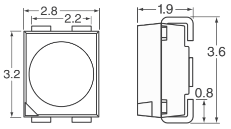

Fig. 31

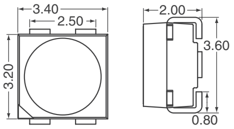

Fig. 32

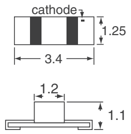

Fig. 33

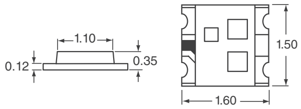

Fig. 34

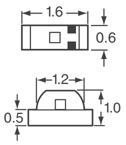

Fig. 35

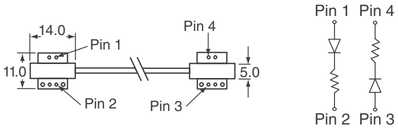

Fig. 36

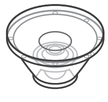

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Bulk Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Avago Part No.
1	2.5mm x 7.6mm	Green	Diffused	565nm	2.2V	30mA	2.6 min.	20mA	100°	516-1279-ND	.90	7.00	60.00	—	—	HLMP-0504
	2.5mm x 7.6mm	Yellow	Diffused	583nm	2.1V	20mA	3.6 min.	20mA	100°	516-1278-ND	.80	7.00	54.00	—	—	HLMP-0401
2	2.0mm x 5.0mm	Green	Diffused	565nm	2.2V	30mA	8	20mA	110°	516-1285-ND	.42	3.18	22.80	—	—	HLMP-S501
	2.0mm x 5.0mm	HE Red	Diffused	635nm	1.9V	30mA	7.5	20mA	110°	516-1282-ND	.42	3.18	22.80	—	—	HLMP-S201
3	5mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/4.2	10mA	65°	516-1287-ND	.68	5.25	45.00	—	—	HLMP-4000
4	3mm	Green	Diffused	565nm	1.9V	2mA	1.0	2mA	50°	516-1792-1-ND◊	.62	4.62	36.30	1,800	176.00/M	HLMP-1790-A0002
	3mm	Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1310-ND	.56	4.20	33.00	—	—	HLMP-1790
	3mm	Green	Diffused	565nm	2.1V	30mA	5	10mA	60°	516-1293-ND	.42	3.18	22.80	—	—	HLMP-1503
	3mm	Green	Diffused	565nm	2.1V	30mA	4.2 min.	10mA	60°	516-1755-ND	.49	3.71	26.60	—	—	HLMP-1503-D0000
	3mm	Green	Tint	565nm	2.1V	30mA	22	10mA	45°	516-1298-ND	.42	3.18	22.80	—	—	HLMP-1521
	3mm	Green	Water Clear	565nm	2.2V	30mA	45	20mA	45°	516-1301-ND	.56	4.24	30.40	—	—	HLMP-1540
	3mm	Green	Diffused	565nm	5.0V	20mA	8	10mA	60°	516-1306-ND	.68	5.25	45.00	—	—	HLMP-1640
	3mm	Yellow	Diffused	583nm	1.8V	7mA	2.1	2mA	50°	516-1309-ND	.56	4.20	33.00	—	—	HLMP-1719
	3mm	Yellow	Diffused	583nm	2.0V	20mA	6	10mA	60°	516-1292-ND	.42	3.18	22.80	—	—	HLMP-1401
	3mm	Red/Orange	Non-diffused	621nm	1.9V	50mA	35 min.	20mA	45°	516-1892-ND	.81	6.30	48.60	—	—	HLMA-KH00-J0000
	3mm	HE Red	Diffused	635nm	1.7V	7mA	2.1	2mA	50°	516-1308-ND	.56	4.20	33.00	—	—	HLMP-1700
	3mm	HE Red	Diffused	635nm	1.9V	30mA	5.5	10mA	60°	516-1291-ND	.42	3.18	22.80	—	—	HLMP-1301
	3mm	HE Red	Diffused	635nm	1.9V	30mA	3.4 min.	10mA	60°	516-1750-1-ND◊	.49	3.71	26.60	1,800	161.00/M	HLMP-1301-E0002

◊ Cut Tape ▲ Tube † For Tape and Reel Part number, change 1-ND to 2-ND. § For Tape and Box Part number, change 1-ND to 3-ND. ‡ Lumens (lm)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs *(Cont.)*

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Bulk Pricing			Tape and Reel†		Avago Part No.
											1	10	100	Qty.	Pricing	
4	3mm	HE Red	Tint	635nm	1.9V	30mA	30	10mA	45°	516-1294-ND	.42	3.18	22.80	—	—	HLMP-1321
	3mm	HE Red	Water Clear	635nm	1.9V	30mA	55	20mA	45°	516-1299-ND	.56	4.24	30.40	—	—	HLMP-1340
	3mm	Red	Diffused	635nm	1.7V	2mA	0.8	2mA	50°	516-1791-1-ND◊	.62	4.62	36.30	1,800	176.00/M	HLMP-1700-B0002
	3mm	HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1302-ND	.68	5.25	45.00	—	—	HLMP-1600
	3mm	HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1303-ND	.68	5.25	45.00	—	—	HLMP-1601
	3mm	Red	Diffused	645nm	1.6V	30mA	2	1mA	60°	516-1311-ND	.56	4.20	33.00	—	—	HLMP-K150
	3mm	Red	Water Clear	645nm	1.6V	30mA	3	1mA	45°	516-1312-ND	.67	5.04	39.60	—	—	HLMP-K155
	3mm	Red	Water Clear	645nm	1.8V	30mA	65	20mA	45°	516-1314-ND	.56	4.24	30.40	—	—	HLMP-K105
5	3mm	Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1759-ND	.90	7.00	60.00	—	—	HLMP-1790-A00A2
	3mm	Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1758-ND	.90	7.00	60.00	—	—	HLMP-1790-A00A1
	3mm	Green	Diffused	565nm	2.1V	30mA	2.6 min.	10mA	60°	516-1753-ND	.72	5.60	48.00	—	—	HLMP-1503-C00A1
	3mm	Green	Diffused	565nm	2.1V	30mA	2.6 min.	10mA	60°	516-1754-ND	.72	5.60	48.00	—	—	HLMP-1503-C00A2
	3mm	Green	Diffused	565nm	5.0V	15mA	1.6 min.	10mA	60°	516-1756-ND	1.00	8.50	72.50	—	—	HLMP-1640-B00A1
	3mm	Yellow	Diffused	583nm	1.8V	7mA	2.1	2mA	50°	516-1895-ND	.90	7.00	54.00	—	—	HLMP-1719-A00A2
	3mm	Yellow	Diffused	583nm	2.0V	20mA	3.6 min.	10mA	60°	516-1752-ND	.72	5.60	48.00	—	—	HLMP-1401-D00A1
	3mm	HE Red	Diffused	635nm	1.7V	7mA	2.1	2mA	50°	516-1757-ND	.90	7.00	60.00	—	—	HLMP-1700-B00A2
	3mm	HE Red	Diffused	635nm	1.9V	30mA	3.4 min.	10mA	60°	516-1751-ND	.72	5.60	48.00	—	—	HLMP-1301-E00A1
	3mm	HE Red	Diffused	635nm	1.9V	30mA	3.4 min.	10mA	60°	516-1894-ND	.72	5.60	43.20	—	—	HLMP-1301-E00A2
6	3mm	Amber	Tint	592nm	2.02V	30mA	96.2 min.	20mA	60°	516-1769-ND	.56	4.24	30.40	—	—	HLMP-NL06
7	5mm	HE Red	Diffused	635nm	1.9V	10mA	7	10mA	50°	516-1315-ND	.67	5.04	39.60	—	—	HLMP-3351
8	5mm	Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1327-ND	.56	4.20	33.00	—	—	HLMP-4740
	5mm	Green	Tint	565nm	2.1V	30mA	70	10mA	24°	516-1337-ND	.42	3.18	22.80	—	—	HLMP-3519
	5mm	Green	Diffused	565nm	2.1V	30mA	4.2 min.	10mA	60°	516-1765-1-ND◊	.62	4.62	36.30	1,300	231.00/M	HLMP-3507-D0002
	5mm	Green	Diffused	565nm	2.1V	30mA	5.2	10mA	60°	516-1333-ND	.42	3.18	22.80	—	—	HLMP-3507
	5mm	Green	Diffused	565nm	2.1V	30mA	14	10mA	60°	516-1334-ND	.67	5.04	39.60	—	—	HLMP-3962
	5mm	HE Red	Diffused	635nm	1.9V	30mA	7	10mA	60°	516-1328-ND	.42	3.18	22.80	—	—	HLMP-3301
	5mm	HE Red	Diffused	635nm	1.9V	30mA	2.1 min.	10mA	60°	516-1760-ND	.49	3.71	26.60	—	—	HLMP-3301-D0000
	5mm	HE Red	Diffused	635nm	1.9V	30mA	12	10mA	60°	516-1329-ND	.67	5.04	39.60	—	—	HLMP-3762
	5mm	HE Red	Diffused	635nm	1.7V	7mA	2.3	2mA	50°	516-1325-ND	.56	4.20	33.00	—	—	HLMP-4700
	5mm	Red	Diffused	645nm	1.6V	30mA	3	1mA	65°	516-1323-ND	.56	4.20	33.00	—	—	HLMP-D150
	5mm	Red	Diffused	645nm	1.8V	30mA	70	20mA	65°	516-1324-ND	.56	4.24	30.40	—	—	HLMP-D101
9	5mm	Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1767-ND	.90	7.00	60.00	—	—	HLMP-4740-A00B2
	5mm	Green	Diffused	565nm	2.1V	30mA	4.2 min.	10mA	60°	516-1766-ND	.90	7.00	60.00	—	—	HLMP-3507-D00B2
	5mm	Yellow	Diffused	583nm	2.0V	20mA	5.7 min.	10mA	60°	516-1764-ND	.72	5.60	48.00	—	—	HLMP-3401-E00B2
	5mm	HE Red	Diffused	635nm	1.9V	30mA	2.1 min.	10mA	60°	516-1761-ND	.72	5.60	48.00	—	—	HLMP-3301-D00B2
	5mm	HE Red	Diffused	635nm	1.9V	30mA	5.4 min.	10mA	60°	516-1762-ND	.72	5.60	48.00	—	—	HLMP-3301-F00B2
	5mm	Red	Diffused	645nm	1.6V	30mA	3	1mA	65°	516-1768-ND	.90	7.00	60.00	—	—	HLMP-D150-C00B2
10	5mm	Green	Water Clear	565nm	2.2V	30mA	265	20mA	24°	516-1347-ND	.67	5.04	39.60	—	—	HLMP-3950
	5mm	HE Red	Water Clear	635nm	1.9V	30mA	125	20mA	24°	516-1345-ND	.67	5.04	39.60	—	—	HLMP-3750
	5mm	HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1339-ND	.68	5.25	45.00	—	—	HLMP-3600
	5mm	HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1340-ND	.68	5.25	45.00	—	—	HLMP-3601
	5mm	Red	Water Clear	645nm	1.6V	30mA	10	1mA	24°	516-1338-ND	.67	5.04	39.60	—	—	HLMP-D155
11	5mm	Green	Tint	568nm	2.2V	30mA	170	20mA	25°	516-1355-ND	.67	5.04	39.60	—	—	HLMP-C523
	5mm	Yellow	Tint	583nm	2.1V	20mA	300	20mA	15°	516-1352-ND	.67	5.04	39.60	—	—	HLMP-C315
	5mm	Yellow	Tint	583nm	2.1V	20mA	170	20mA	25°	516-1353-ND	.67	5.04	39.60	—	—	HLMP-C323
	5mm	Amber	Non-diffused	590nm	2.02V	50mA	4,200 min.	20mA	15°	516-1779-1-ND◊§	.68	5.25	45.00	2,000	210.00/M	HLMP-EL15-VY0DD
	5mm	Amber	Water Clear	592nm	2.02V	50mA	840	20mA	30°	516-1382-ND	.67	5.04	39.60	—	—	HLMP-EL30-LP000
	5mm	Amber	Water Clear	594nm	2.15V	50mA	3,700	20mA	23°	516-1370-ND	.68	5.95	45.90	—	—	HLMP-EL25-SV000
	5mm	Red	Water Clear	635nm	1.9V	50mA	21,000	20mA	6°	516-1376-ND	.73	5.46	42.90	—	—	HLMP-EG08-X1000
	5mm	Red	Water Clear	635nm	1.9V	50mA	27,000	20mA	6°	516-1377-ND	.78	5.88	46.20	—	—	HLMP-EG08-Y2000
	5mm	Red	Water Clear	635nm	1.9V	50mA	1,395	20mA	30°	516-1381-ND	.67	5.04	39.60	—	—	HLMP-EG30-NR000
	5mm	Red	Water Clear	639nm	2.0V	50mA	3,700	20mA	30°	516-1372-ND	.77	5.95	51.00	—	—	HLMP-ED31-SV000
	5mm	Red	Tint	645nm	1.8V	30mA	600	20mA	15°	516-1348-ND	.67	5.04	39.60	—	—	HLMP-C115
12	5mm	Red	Water Clear	639nm	2.0V	50mA	3,700	20mA	30°	516-1390-ND	.77	5.95	51.00	—	—	HLMP-ED33-SV000
13	5mm	HE Red	Water Clear	650nm	1.8V	30mA	1,000	20mA	8°	516-1393-ND	.67	5.04	39.60	—	—	HLMP-4101
14	Mounting Clip and Ring, for T-1 3/4 (5mm) Lamps									516-1394-ND	—	3.35	22.00	—	—	HLMP-0103
15	LED Housing, Right Angle Snap-In									516-1395-ND	—	3.78	29.70	—	—	HLMP-5029

◊ Cut Tape ▲ Tube † For Tape and Reel Part number, change 1-ND to 2-ND. § For Tape and Box Part number, change 1-ND to 3-ND. ‡ Lumens (lm) *(Continued)*

LEDs *(Cont.)*

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Bulk Pricing			Tape and Reel†		Avago Part No.
											1	10	100	Qty.	Pricing	
16	1.60mm	Blue	Non-diffused	470nm	3.7V	30mA	160 min.	20mA	20°	516-1901-ND	.86	6.65	51.30	—	—	HLMP-QB00-S0000
	1.60mm	Amber	Non-diffused	590nm	1.9V	50mA	500	20mA	15°	516-1893-ND	.67	5.04	39.00	—	—	HLMA-QL00
	1.60mm	Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1410-ND	.72	5.60	48.00	—	—	HLMT-PL00
	1.80mm	Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1405-ND	.56	4.20	33.00	—	—	HLMP-6500
	1.80mm	Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-2108-1-ND◊	.67	5.04	39.60	1,500	192.00/M	HLMP-6500-F0011
	1.80mm	Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-2109-1-ND◊	.67	5.04	39.60	1,500	192.00/M	HLMP-6500-F0021
	1.80mm	Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1406-ND	.56	4.20	33.00	—	—	HLMP-6505
	1.80mm	Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-2110-1-ND◊	.67	5.04	39.60	1,500	192.00/M	HLMP-6505-L0021
	1.80mm	Green	Diffused	565nm	2.1V	30mA	0.6	2mA	90°	516-2111-1-ND◊	.77	5.95	51.00	1,500	263.50/M	HLMP-7040-D0011
	1.80mm	Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1402-ND	.56	4.20	33.00	—	—	HLMP-6400
	1.80mm	Yellow	Diffused	583nm	2.0V	20mA	0.6	2mA	90°	516-1404-ND	.57	4.80	36.00	—	—	HLMP-7019
	1.80mm	HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-1398-ND	.56	4.20	33.00	—	—	HLMP-6300
	1.80mm	HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-2105-ND	.68	5.25	40.50	—	—	HLMP-6300-F0010
	1.80mm	HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-2106-1-ND◊	.67	5.04	39.60	1,500	192.00/M	HLMP-6300-F0011
	1.80mm	HE Red	Water Clear	635nm	1.8V	30mA	40	10mA	28°	516-2107-1-ND◊	.67	5.04	39.60	1,500	192.00/M	HLMP-6305-L0021
	1.80mm	HE Red	Diffused	635nm	1.8V	30mA	1	2mA	90°	516-1400-ND	.67	5.04	39.60	—	—	HLMP-7000
	1.80mm	HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1401-ND	.90	7.00	60.00	—	—	HLMP-6620
17	Flat Top 1.60mm	Green	Non-diffused	655nm	6.0V	30mA	1.6 min.	10mA	125°	516-1793-1-ND◊	.78	5.88	46.20	1,500	224.00/M	HLMP-P505-G0011
18	TO-220-2-2	Cool White	Non-diffused	—	4.0V	700mA	80‡	350mA	120°	516-2132-5-ND▲	7.02	64.35	491.40	—	—	ASMT-MW20-NNN00
	TO-220-2-2	Cool White	Non-diffused	—	4.0V	700mA	80‡	350mA	120°	516-1973-5-ND▲	7.11	65.18	497.70	—	—	ASMT-MW22-NNN00
	TO-220-2-2	Warm White	Non-diffused	—	4.0V	700mA	70‡	350mA	120°	516-1974-5-ND▲	7.20	66.00	504.00	—	—	ASMT-WY20-NMN00
	TO-220-2-2	Warm White	Non-diffused	—	4.0V	700mA	70‡	350mA	120°	516-1975-5-ND▲	7.26	66.55	508.20	—	—	ASMT-MY22-NMN00
19	1.80mm	Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1417-ND	.68	5.25	45.00	—	—	HLMP-6500-F0010
	1.80mm	Green	Diffused	565nm	5.0V	30mA	2	5V	90°	516-1418-ND	1.00	8.50	72.50	—	—	HLMP-6820-F0010
	1.80mm	HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1415-ND	1.00	8.50	72.50	—	—	HLMP-6620-F0010
20	1.60mm	Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1411-1-ND◊	.81	6.30	54.00	1,500	360.00/M	HLMT-PL00-P0W11
	1.60mm	Red/Orange	Water Clear	621nm	2.0V	50mA	120	20mA	125°	516-1409-1-ND◊	.81	6.30	54.00	1,500	279.00/M	HLMT-PH00-P0011
	1.80mm	Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1414-1-ND◊	.67	5.04	39.60	1,500	252.00/M	HLMP-6505-L0011
	1.80mm	Amber	Water Clear	592nm	2.0V	50mA	1,000	20mA	15°	516-1412-1-ND◊	.81	6.30	54.00	1,500	360.00/M	HLMT-QL00-T0011
21	0603	HE Red/Green	Diffused	630/570nm	2.1/2.2V	20mA	10/15	20mA	120°	516-1419-1-ND◊	.49	3.71	26.60	4,000	133.00/M	HSMF-C165
	0603	Yellow/Green	Diffused	589/570nm	2.1/2.2V	20mA	2.8/4.5 min.	20mA	120°	516-1796-1-ND◊	.49	3.71	26.60	4,000	119.00/M	HSMF-C166
22	0603	Green	Diffused	520nm	3.4V	20mA	45 min.	20mA	140°	516-1807-1-ND◊	1.00	8.50	72.50	4,000	337.50/M	HSMQ-C191
	0603	Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1425-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMG-C190
	0603	Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1424-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMY-C190
	0603	Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1423-1-ND◊	.56	4.24	30.40	4,000	152.00/M	HSMA-C190
	0603	HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1422-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMS-C190
	0603	Red	Diffused	637nm	1.9V	25mA	28.5 min.	20mA	170°	516-1421-1-ND◊	.56	4.24	30.40	4,000	136.00/M	HSMC-C190
	0603	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1420-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMH-C190
23	0603	Red	Diffused	622nm	2.0V	20mA	120	20mA	145°	516-2005-1-ND◊	.50	3.60	21.20	4,000	80.00/M	ASMT-RR45-AQ902
24	0805	Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1437-1-ND◊	.81	6.30	54.00	4,000	324.00/M	HSMN-C170
	0805	Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1445-1-ND◊	.81	6.30	54.00	4,000	324.00/M	HSMR-C170
	0805	Green	Diffused	523nm	3.3V	20mA	120	20mA	170°	516-1435-1-ND◊	1.00	8.50	72.50	4,000	437.50/M	HSMM-C170
	0805	Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1434-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMG-C170
	0805	Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1433-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMY-C170
	0805	Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1431-1-ND◊	.56	4.24	30.40	4,000	152.00/M	HSMA-C170
	0805	Orange	Diffused	605nm	2.2V	25mA	2.8 min.	20mA	170°	516-1794-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMD-C170
	0805	HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1429-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMS-C170
	0805	Red	Diffused	637nm	1.9V	30mA	90	20mA	170°	516-1428-1-ND◊	.56	4.24	30.40	4,000	152.00/M	HSMC-C170
	0805	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1427-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMH-C170
25	1206	Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1446-1-ND◊	.81	6.30	54.00	3,000	324.00/M	HSMN-C150
	1206	Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1436-1-ND◊	.81	6.30	54.00	3,000	324.00/M	HSMR-C150
	1206	Green	Diffused	520nm	3.4V	25mA	145	20mA	140°	516-1444-1-ND◊	1.00	8.50	72.50	3,000	437.50/M	HSMQ-C150
	1206	Green	Diffused	570nm	2.2V	25mA	15	20mA	170°	516-1443-1-ND◊	.50	3.60	21.20	3,000	80.00/M	HSMG-C150
	1206	Yellow	Diffused	589nm	2.1V	25mA	8	20mA	170°	516-1442-1-ND◊	.50	3.60	21.20	3,000	80.00/M	HSMY-C150
	1206	HE Red	Diffused	630nm	2.1V	25mA	10	20mA	170°	516-1440-1-ND◊	.50	3.60	21.20	3,000	80.00/M	HSMS-C150
	1206	Red	Diffused	660nm	1.8V	30mA	17	20mA	170°	516-1439-1-ND◊	.50	3.60	21.20	3,000	80.00/M	HSMH-C150
26	1206 Right Angle	Blue	Non-diffused	469nm	3.4V	20mA	18 min.	20mA	130°	516-1808-1-ND◊	.81	6.30	54.00	3,000	252.00/M	HSMR-C110
	1206 Right Angle	Green	Diffused	570nm	2.2V	25mA	16	20mA	130°	516-1452-1-ND◊	.50	3.60	21.20	3,000	80.00/M	HSMG-C110
	1206 Right Angle	Amber	Water Clear	595nm	1.9V	25mA	95	20mA	130°	516-1450-1-ND◊	.50	3.78	29.70	3,000	166.50/M	HSMA-C110
27	1208 Right Angle	Green	Water Clear	568nm	2.2V	25mA	13.3	20mA	125°	516-1726-1-ND◊	.42	3.18	22.80	3,000	114.00/M	HSMG-C680
	1208 Right Angle	HE Red	Water Clear	636nm	2.0V	25mA	5.1	20mA	125°	516-1728-1-ND◊	.42	3.18	22.80	3,000	114.00/M	HSMS-C680
	1208 Right Angle	Red	Water Clear	657nm	1.8V	25mA	30.7	20mA	125°	516-1727-1-ND◊	.42	3.18	22.80	3,000	114.00/M	HSMH-C680
28	1210	Yellow/Green	Diffused	589/570nm	2.1/2.2V	25mA	8/15	20mA	170°	516-1457-1-ND◊	.49	3.71	26.60	3,000	133.00/M	HSMF-C156
	1210	HE Red/Green	Diffused	630/570nm	2.1/2.2V	25mA	10/15	20mA	170°	516-1456-1-ND◊	.49	3.71	26.60	3,000	133.00/M	HSMF-C155
	1210	Red/Green/Blue	Diffused	637/523/468nm	1.9/3.5/3.5V	20mA	90/120/40	20mA	135/130/125°	516-1778-1-ND◊	1.80	15.30	130.50	3,000	787.50/M	HSMF-C118

◊ Cut Tape ▲ Tube † For Tape and Reel Part number, change 1-ND to 2-ND. § For Tape and Box Part number, change 1-ND to 3-ND. ‡ Lumens (lm)

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs *(Cont.)*

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Bulk Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Avago Part No.
29	3.20mm x 2.80mm	Amber	Water Clear	592nm	1.9V	30mA	100	20mA	120°	516-2119-1-ND◊	.46	3.22	21.12	2,000	86.40/M	HSMA-A100-Q00J1
	3.20mm x 2.80mm	Amber	Water Clear	592nm	1.9V	30mA	220	20mA	120°	516-2120-1-ND◊	.51	3.87	27.74	2,000	124.10/M	HSMA-A101-S00J1
	3.20mm x 2.80mm	Blue	Water Clear	468nm	3.4V	30mA	70	20mA	120°	516-1464-1-ND◊	1.08	9.18	78.30	2,000	472.50/M	HSMN-A100-P00J1
	3.20mm x 2.80mm	Green	Water Clear	523nm	3.4V	30mA	350	20mA	120°	516-1463-1-ND◊	1.32	11.25	95.99	2,000	579.25/M	HSMM-A100-S00J1
	3.20mm x 2.80mm	Green	Water Clear	523nm	3.4V	30mA	200	20mA	120°	516-2124-1-ND◊	1.15	9.79	83.52	2,000	388.80/M	HSMM-A101-R00J1
	3.20mm x 2.80mm	Emerald Green	Water Clear	558nm	2.2V	30mA	8.0	20mA	120°	516-2123-1-ND◊	.48	3.35	22.00	2,000	90.00/M	HSMG-A100-H01J1
	3.20mm x 2.80mm	Yellow/Green	Water Clear	565nm	2.2V	30mA	18	20mA	120°	516-1462-1-ND◊	.48	3.42	20.14	—	—	HSMG-A100-J02J1
	3.20mm x 2.80mm	Amber	Water Clear	594nm	2.8V	70mA	3,800	50mA	120°	516-1781-1-ND◊	.68	5.25	45.00	2,000	210.00/M	ASMC-PAB9-TV005
	3.20mm x 2.80mm	Amber	Water Clear	594nm	2.2V	30mA	270	20mA	120°	516-1460-1-ND◊	.67	5.04	39.60	2,000	222.00/M	HSMU-A100-R00J1
	3.20mm x 2.80mm	Red	Water Clear	635nm	1.9V	30mA	100	20mA	120°	516-2121-1-ND◊	.46	3.22	21.12	2,000	86.40/M	HSMC-A100-Q00J1
	3.20mm x 2.80mm	Red	Water Clear	635nm	1.9V	30mA	220	20mA	120°	516-2122-1-ND◊	.46	3.50	25.08	2,000	112.20/M	HSMC-A101-S00J1
	3.20mm x 2.80mm	Red	Water Clear	635nm	2.2V	30mA	15	20mA	120°	516-2125-1-ND◊	.48	3.42	20.14	2,000	76.00/M	HSMS-A100-J00J1
	3.20mm x 2.80mm	Red	Water Clear	639nm	2.8V	70mA	3,300	50mA	120°	516-1782-1-ND◊	.68	5.25	45.00	2,000	210.00/M	ASMC-PRB9-TV005
	3.20mm x 2.80mm	Red	Water Clear	639nm	2.2V	30mA	400	20mA	120°	516-1459-1-ND◊	.70	5.25	41.25	2,000	231.25/M	HSMZ-A100-R00J1
	3.20mm x 2.80mm	Red	Water Clear	639nm	2.2V	30mA	350	20mA	120°	516-2126-1-ND◊	.67	5.04	39.60	2,000	180.00/M	HSMZ-A100-T70J1
30	3.20mm x 2.80mm	Red	Water Clear	624nm	3.1V	150mA	9.8‡	150mA	120°	516-2002-1-ND◊	1.00	8.50	72.50	2,000	337.50/M	ASMT-QRB2-FCD0E
31	3.20mm x 3.40mm	Red/Green/Blue	Water Clear	629/521/465nm	2.1/3.2/3.2V	50/30/30mA	620/1,200/280	20mA	120°	516-2133-1-ND◊	2.03	17.82	151.20	1,000	742.50	ASMT-QTB0-0AA02
32	3.40mm x 1.25mm	Green	Water Clear	570nm	2.2V	25mA	15	20mA	170°	516-1467-1-ND◊	.49	3.71	26.60	3,000	133.00/M	HSMG-C265
	3.40mm x 1.25mm	Amber	Water Clear	595nm	1.9V	25mA	75	20mA	170°	516-1466-1-ND◊	.56	4.24	30.40	3,000	152.00/M	HSMA-C265
	3.40mm x 1.25mm	Red	Water Clear	637nm	1.9V	25mA	75	20mA	170°	516-1465-1-ND◊	.56	4.24	30.40	3,000	152.00/M	HSMC-C265
33	1.60mm x 1.50mm	Red/Green/Blue	Water Clear	637/523/468nm	1.9/3.4/3.4V	20mA	28.5/45/28.5min.	20mA	140°/145°/145°	516-1795-1-ND◊	1.80	15.30	130.50	4,000	607.50/M	HSMF-C114
34	1.60mm x 0.6mm	Green	Non-diffused	570nm	2.2V	25mA	4.5 min.	20mA	155°	516-1797-1-ND◊	.50	3.60	21.20	4,000	80.00/M	HSMG-C120
							Light Pipe									
35	—	White	—	—	12V	30mA	1,000	20mA	—	516-1855-ND	6.60	60.50	462.00	—	—	ASMT-LW60
							Collimator Lens									
36	30° Beam Lens for ASMT-Mxxx and QSMT-MWBx LEDs									516-1999-ND	2.14	20.10	160.80	—	—	ASMT-M030

◊ Cut Tape ▲ Tube † For Tape and Reel Part number, change 1-ND to 2-ND. § For Tape and Box Part number, change 1-ND to 3-ND. ‡ Lumens (lm)

Smart Displays

Dimensions in mm

Fig. 1

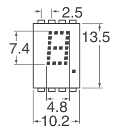

Fig. 2

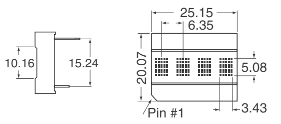

Fig. 3

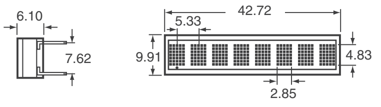

Fig. 4

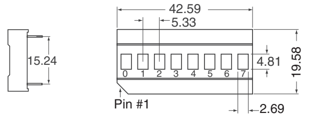

Fig. 5

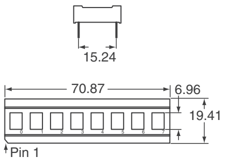

Fig. 6

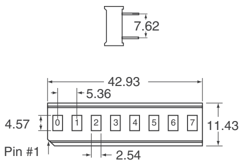

Fig. 7

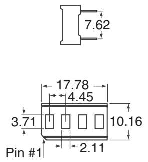

Fig. 8

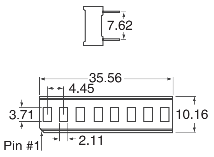

Fig. 9

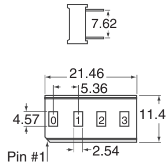

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
					Numeric						
1	1	HE Red	635	0.290	1	140 µcd	516-1154-ND	48.22	46.44	35.72	HDSP-0760
					Hexadecimal						
1	1	Green	568	0.290	1	1,100 µcd	516-1157-ND	36.32	32.28	25.83	HDSP-0962
	1	HE Red	635	0.290	1	140 µcd	516-1155-ND	50.27	48.42	37.24	HDSP-0762
	1	HE Red	635	0.290	1	620 µcd	516-1156-ND	50.27	48.42	37.24	HDSP-0772
					7-Bit Parallel						
2	4	Green	568	0.200	4.0 x 1	5.60 mcd	516-1160-5-ND	25.78	24.90	19.56	HDLG-2416
	4	Yellow	583	0.200	4.0 x 1	3.70 mcd	516-1159-5-ND	25.78	24.90	19.56	HDLY-2416
	4	HE Red	635	0.200	4.0 x 1	3.50 mcd	516-1158-5-ND	25.78	24.90	19.56	HDLO-2416
	4	Red	645	0.200	4.0 x 1	12.7 mcd	516-1886-5-ND	24.70	23.22	17.29	HDLS-2416
					Alphanumeric						
3	8	Green	568	0.200	8.0 x 1	7.50 mcd	516-1745-5-ND	150.66	140.62	130.58	HDSP-2133
					8-Bit Parallel						
4	8	Green	568	0.189	8.0 x 1	7.50 mcd	516-1163-5-ND	47.63	45.87	35.28	HDSP-2113
	8	Yellow	583	0.189	8.0 x 1	7.50 mcd	516-1162-5-ND	47.63	45.87	35.28	HDSP-2111
	8	HE Red	635	0.189	8.0 x 1	7.50 mcd	516-1161-5-ND	47.63	45.87	35.28	HDSP-2112

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
5	8	Green	568	0.270	8.0 x 1	7.50 mcd	516-1165-5-ND	53.50	51.36	40.66	HDSP-2503
	8	HE Red	635	0.270	8.0 x 1	7.50 mcd	516-1164-5-ND	53.50	51.36	40.66	HDSP-2502
6	8	Green	568	0.180	8.0 x 1	7.50 mcd	516-1169-5-ND	45.09	43.42	33.40	HDSP-2533
	8	Yellow	583	0.180	8.0 x 1	7.50 mcd	516-1168-5-ND	45.09	43.42	33.40	HDSP-2531
	8	HE Red	635	0.180	8.0 x 1	7.50 mcd	516-1167-5-ND	45.09	43.42	33.40	HDSP-2532
	8	Red	645	0.180	8.0 x 1	25.0 mcd	516-1166-5-ND	49.95	48.10	37.00	HDSP-2534
					Serial Input						
6	8	Green	568	0.180	8.0 x 1	114 µcd	516-1185-5-ND	45.09	43.42	33.40	HCMS-2973
	8	HE Red	635	0.180	8.0 x 1	64 µcd	516-1183-5-ND	45.09	43.42	33.40	HCMS-2972
	8	Red	645	0.200	5.0 x 7	230 µcd	516-1607-5-ND	49.95	48.10	37.00	HCMS-2975
7	4	Green	568	0.146	4.0 x 1	114 µcd	516-1173-5-ND	28.78	27.72	21.32	HCMS-2903
	4	HE Red	635	0.146	4.0 x 1	64 µcd	516-1171-5-ND	28.78	27.72	21.32	HCMS-2902
8	8	Green	568	0.146	8.0 x 1	114 µcd	516-1176-5-ND	43.28	41.68	32.06	HCMS-2913
	8	Yellow	583	0.146	8.0 x 1	64 µcd	516-1175-5-ND	43.28	41.68	32.06	HCMS-2911
	8	HE Red	635	0.146	8.0 x 1	64 µcd	516-1174-5-ND	36.07	32.06	25.65	HCMS-2912
9	4	Green	568	0.180	4.0 x 1	114 µcd	516-1182-5-ND	29.62	28.53	21.94	HCMS-2963
	4	HE Red	635	0.180	4.0 x 1	64 µcd	516-1180-5-ND	29.62	28.53	21.94	HCMS-2962
	4	Red	645	0.200	5.0 x 7	230 µcd	516-1606-5-ND	32.67	31.46	24.20	HCMS-2965

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Surface Mount LEDs

The chip LEDs have thin, compact features available for surface mount technology. Super bright with wide viewing angle and is suitable for compact and multi-function equipment.

Features: • Compact and thin package • Super bright • High reliability • Surface mount technology available • Wide product range

Cleaning: Avoid using organic solvents. The surface of the LED may change when organic solvents such as trichloroethylene and acetone come in contact with the surface of the LED.

Dimensions in mm

Fig. 1 — 0603 (1608) Leadless USS Type

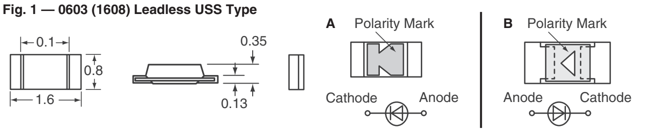

Fig. 2 — 0603 (1608) Leadless SS Type

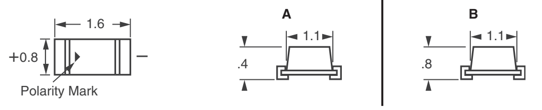

Fig. 3 — 0603 (1608) Leadless TSS Type

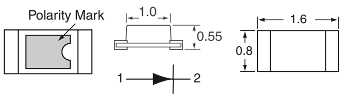

Fig. 4 — 0603 Leadless Lo-Profile

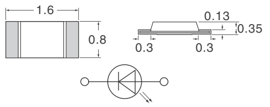

Fig. 5 – 0603 (1608) Leadless ESS, ESS II Type

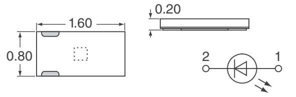

Fig. 6 – 0603 Leadless Dome Lens

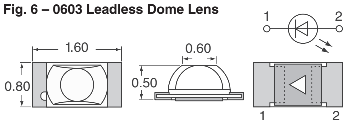

Fig.	Lighting Color	Lens	Process Tech.	Absolute Maximum Ratings				Io		Rated	VF (V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
0603 (1608) Leadless USS Type Height=0.35mm — RoHS Compliant																					
1A	Amber	Yellow Diffused	InGaAIP	25	10	4	-30 ~ 85	16	4	5	1.95	2.5	589	P13488CT-ND	.42	.34	.24	P13488TR-ND	5,000	103.00/M	LNJ414K82RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30 ~ 85	15	7	5	1.90	2.5	620	P13489CT-ND	.42	.34	.24	P13489TR-ND	5,000	103.00/M	LNJ814W83RA
	Yellow Green	Green Diffused	InGaAIP	40	15	4	-30 ~ 85	17	10.2	10	2.05	2.5	575	P13485CT-ND	.30	.24	.17	P13485TR-ND	5,000	73.00/M	LNJ326W83RA
	White	White Diffused	GaN	40	10	5	-30 ~ 85	80	36	5	3.10	3.7	—	P13483CT-ND	.77	.65	.52	P13483TR-ND	5,000	327.00/M	LNJ026X8BRA1
	White	White Diffused	InGaN	40	10	5	-30 ~ 85	40	24	5	2.9	3.2	—	P14144CT-ND	.64	.49	.37	P14144TR-ND	5,000	204.32/M	LNJ026X8ARA1
	Orange	Red Diffused	InGaAIP	45	20	4	-30 ~ 85	19	11.5	5	1.90	2.1	620	P13487CT-ND	.42	.34	.24	P13487TR-ND	5,000	103.00/M	LNJ826W83RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-30 ~ 85	16.9	13.5	10	1.92	2.5	610	P13486CT-ND	.42	.34	.24	P13486TR-ND	5,000	103.00/M	LNJ826W86RA
	Blue	White Diffused	InGaN	70	20	5	-30 ~ 85	11.5	5	5	2.90	3.15	465	P13484CT-ND	.51	.39	.29	P13484TR-ND	5,000	163.00/M	LNJ926W8CRA
1B	Amber	Yellow Diffused	InGaAIP	40	15	4	-30 ~ 85	35	12	10	2.05	2.5	595	P13681CT-ND	.34	.31	.29	P13681TR-ND	5,000	106.00/M	LNJ426W83RA
	Pure Green	Green Diffused	InGaN	70	20	5	-30 ~ 85	40	15	5	2.90	3.25	520	P13497CT-ND	1.15	1.06	.96	P13497TR-ND	5,000	362.00/M	LNJ626W8CRA
0603 (1608) Leadless Height=0.4mm — RoHS Compliant																					
2A	High Bright Red	Red Diffused	GaAIAs	40	15	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	655	P11461CT-ND	.38	.34	.31	P11461TR-ND	5,000	113.00/M	LNJ214R8ARA
	Orange	Red Diffused	GaAsP	40	15	3	-30 ~ 85	1	0.5	10	1.93	2.6	630	P11462CT-ND	.35	.32	.29	P11462TR-ND	5,000	104.00/M	LNJ814R8DRA
	Soft Orange	Yellow Diffused	GaAsP	40	15	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11463CT-ND	.35	.32	.29	P11463TR-ND	5,000	104.00/M	LNJ814K8SRA
	Amber	Yellow Diffused	GaAsP	40	15	3	-30 ~ 85	1.5	0.6	10	2	2.6	590	P11464CT-ND	.35	.32	.29	P11464TR-ND	5,000	104.00/M	LNJ414K8YRA
	Yellow Green	Green Diffused	GaP	40	15	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11465CT-ND	.16	.15	.14	P11465TR-ND	5,000	49.00/M	LNJ314G8TRA
Ultra Bright InGaAIP LED																					
2A	Ultra Bright Red	Red Diffused	InGaAIP	40	15	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11466CT-ND	.44	.37	.30	P11466TR-ND	5,000	110.25/M	LNJ214R82RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11467CT-ND	.56	.53	.48	—	—	—	LNJ814R83RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30 ~ 85	30	16	10	1.95	2.5	620	P11468CT-ND	.45	.36	.27	P11468TR-ND	5,000	114.05/M	LNJ814R88RA
	Soft Orange	Yellow Diffused	InGaAIP	40	15	4	-30 ~ 85	21	8.7	10	1.95	2.5	615	P11469CT-ND	.42	.34	.24	P11469TR-ND	5,000	102.56/M	LNJ814K87RA
	Amber	Yellow Diffused	InGaAIP	40	15	4	-30 ~ 85	26	14	10	2.1	2.5	595	P11470CT-ND	.45	.36	.27	P11470TR-ND	5,000	114.05/M	LNJ414K84RA
	Yellow Green	Green Diffused	InGaAIP	40	15	4	-30 ~ 85	12	6.4	10	2.03	2.5	575	P11471CT-ND	.42	.34	.24	P11471TR-ND	5,000	102.56/M	LNJ314G83RA
0603 (1608) Leadless Height=0.8mm — RoHS Compliant																					
2B	High Bright Red	Red Diffused	GaAIAs	50	20	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	660	P524CT-ND	.28	.26	.24	P524TR-ND	4,000	97.00/M	LNJ208R8ARA
	Orange	Orange Diffused	GaAsP	30	10	3	-30 ~ 85	1.1	0.4	5	1.8	2.4	630	P523CT-ND‡	.33	.31	.28	P523TR-ND‡	4,000	104.00/M	LNJ808R8ERA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.4	10	1.93	2.6	610	P11132CT-ND	.33	.31	.28	P11132TR-ND	4,000	104.00/M	LNJ808K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30 ~ 85	1.5	0.6	10	2	2.6	590	P11129CT-ND	.33	.31	.28	P11129TR-ND	4,000	104.00/M	LNJ408K8YRA
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	0.9	0.4	5	1.9	2.4	590	P522CT-ND‡	.33	.31	.28	P522TR-ND‡	4,000	104.00/M	LNJ408K8ZRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P525CT-ND	.21	.20	.18	P525TR-ND	4,000	60.00/M	LNJ308G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	2.1	0.7	5	1.9	2.4	565	P521CT-ND‡	.21	.20	.18	P521TR-ND‡	4,000	60.00/M	LNJ308G8LRA
	Pure Green	Green Diffused	GaP	50	20	4	-25 ~ 85	0.7	0.25	10	2.03	2.6	555	P11485CT-ND	.35	.32	.29	P11485TR-ND	4,000	114.00/M	LNJ308G8PRA
Ultra Bright InGaAIP LED																					
2B	Ultra Bright Red	Red Diffused	InGaAIP	55	20	4	-25 ~ 85	15	8	10	1.92	2.5	645	P11486CT-ND	.44	.37	.30	P11486TR-ND	4,000	117.60/M	LNJ208R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-25 ~ 85	32	17	10	2.03	2.5	630	P11487CT-ND	.42	.34	.24	P11487TR-ND	4,000	108.97/M	LNJ808R83RA
	Orange	Red Diffused	InGaAIP	50	20	4	-25 ~ 85	6.5	2.5	10	1.9	2.3	620	P11131CT-ND	.45	.36	.27	P11131TR-ND	4,000	118.97/M	LNJ808R88RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-25 ~ 85	21	7	10	1.95	2.5	615	P11488CT-ND	.42	.34	.24	P11488TR-ND	4,000	108.97/M	LNJ808K87RA
	Amber	Yellow Diffused	InGaAIP	50	20	4	-25 ~ 85	10.5	4	10	2	2.3	595	P11130CT-ND	.45	.36	.27	P11130TR-ND	4,000	118.97/M	LNJ408K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-25 ~ 85	12	6.4	10	2.03	2.5	575	P11489CT-ND	.42	.34	.24	P11489TR-ND	4,000	108.97/M	LNJ308G83RA
0603 (1608) Leadless Height=0.55mm — RoHS Compliant																					
3	High Bright Red	Red Diffused	GaAIAs	50	20	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	655	P11133CT-ND	.33	.31	.28	P11133TR-ND	5,000	104.00/M	LNJ212R8ARA
	Orange	Orange Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.4	10	1.93	2.6	630	P11594CT-ND	.32	.29	.26	P11594TR-ND	5,000	95.00/M	LNJ812R8DRA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11472CT-ND	.32	.29	.26	P11472TR-ND	5,000	95.00/M	LNJ812K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30 ~ 85	1.5	0.6	5	2	2.6	590	P11135CT-ND	.33	.31	.28	P11135TR-ND	5,000	95.00/M	LNJ412K8YRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30 ~ 85	5	1.8	5	2.03	2.6	565	P11134CT-ND	.19	.18	.16	P11134TR-ND	5,000	49.00/M	LNJ312G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	3	1.8	10	1.9	2.4	565	P11473CT-ND	.16	.15	.14	P11473TR-ND	5,000	49.00/M	LNJ312G8LRA
Ultra Bright InGaAIP / GaN LED																					
3	Red	Red Diffused	InGaAIP	55	20	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11475CT-ND	.44	.37	.30	P11475TR-ND	5,000	110.25/M	LNJ212R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11476CT-ND	.42	.34	.24	P11476TR-ND	5,000	102.56/M	LNJ812R83RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30 ~ 85	30	16	10	1.95	2.5	620	P11477CT-ND	.45	.36	.27	P11477TR-ND	5,000	114.05/M	LNJ812R88RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-30 ~ 85	21	7	10	1.95	2.5	615	P11478CT-ND	.42	.34	.24	P11478TR-ND	5,000	102.56/M	LNJ812K87RA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30 ~ 85	26	14	10	2.1	2.5	595	P11479CT-ND	.45	.36	.27	P11479TR-ND	5,000	114.05/M	LNJ412K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-30 ~ 85	12	6.4	20	2.03	2.5	575	P11480CT-ND	.42	.34	.24	P11480TR-ND	5,000	102.56/M	LNJ312G83RA
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	10.3	5	3	3.7	525	P11481CT-ND	.87	.66	.50	P11481TR-ND	5,000	277.89/M	LNJ612W8WRA
	Blue	White Diffused	InGaN	65	15	5	-30 ~ 85	12	5	5	2.9	3.2	465	P14149CT-ND	.51	.39	.29	P14149TR-ND	5,000	163.46/M	LNJ912W8CRA1
	White	White Diffused	InGaN	65	15	5	-30 ~ 85	40	24	5	2.9	3.2	—	P14143CT-ND	.64	.49	.37	P14143TR-ND	5,000	208.33/M	LNJ012X8ARA1
0603 Leadless Lo-Profile — RoHS Compliant																					
4	White Light	White Diffused	GaN	27	7	5	-30 ~ 85	25	13	5	3.1	3.7	—	P12022CT-ND	4.91	4.58	4.15	—	—	—	LNJ026X8BRA
0603 (1608) Leadless - High Brightness - ESS Type — RoHS Compliant																					
5	Ice Blue	White Diffused	InGaN	40	10	5	-30 ~ 85	30	25	5	2.9	3.2	—	P14138CT-ND	.64	.49	.37	P14138TR-ND	5,000	204.32/M	LNJC36X8ARA1
	Red	White Diffused	InGaAIP	55	20	4	-30 ~ 85	7	5.8	5	1.95	2.3	645	P14158CT-ND	.42	.34	.26	P14158TR-ND	5,000	107.07/M	LNJ236W82RA
	Yellow Green	White Diffused	InGaAIP	55	20	4	-30 ~ 85	7.5	4	5	1.95	2.3	575	P14159CT-ND	.44	.37	.30	P14159TR-ND	5,000	109.91/M	LNJ336W83RA
	Amber	White Diffused	InGaAIP	55	20	4	-30 ~ 85	25	15	5	1.95	2.3	595	P14160CT-ND	.44	.37	.30	P14160TR-ND	5,000	109.91/M	LNJ436W82RA
	White Light	White Diffused	InGaN	40	10	5	-30 ~ 85	35	25	5	2.9	3.2	—	P14139CT-ND	.64	.49	.37	P14139TR-ND	5,000	204.32/M	LNJ036X8ARA
	Blue Light	White Diffused	InGaN	65	15	5	-30 ~ 85	14	8.5	5	2.9	3.2	465	P14137CT-ND	.51	.39	.29	P14137TR-ND	5,000	163.46/M	LNJ936W8CRA
	Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	17.5	11.5	5	1.95	2.30	630	P14185CT-ND	.44	.37	.30	P14185TR-ND	5,000	109.91/M	LNJ836W83RA
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	9.0	5.0	5	1.95	2.30	610	P14186CT-ND	.44	.37	.30	P14186TR-ND	5,000	109.91/M	LNJ836W86RA
NEW! 0603 (1608) Leadless - High Brightness - ESS II Type — RoHS Compliant NEW!																					
5	White	White Diffused	InGaN	40	10	5	-30 ~ 85	60	35	5	2.9	3.2	—	LNJ037X8ARACT-ND	.50	.40	.30	LNJ037X8ARATR-ND	5,000	127.50/M	LNJ037X8ARA
	Red	White Diffused	InGaAIP	55	20	4	-30 ~ 85	7	5.8	5	1.95	2.3	645	LNJ237W82RACT-ND	.37	.28	.20	LNJ237W82RATR-ND	5,000	66.93/M	LNJ237W82RA
	Yellow Green	White Diffused	InGaAIP	55	20	4	-30 ~ 85	7.5	4	5	1.95	2.3	575	LNJ337W83RACT-ND	.40	.32	.22	LNJ337W83RATR-ND	5,000	85.00/M	LNJ337W83RA
	Amber	White Diffused	InGaAIP	55	20	4	-30 ~ 85	25	15	5	1.95	2.3	595	LNJ437W84RACT-ND	.40	.32	.22	LNJ437W84RATR-ND	5,000	85.00/M	LNJ437W84RA
	Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	17.5	11.5	5	1.95	2.3	630	LNJ837W83RACT-ND	.36	.27	.19	LNJ837W83RATR-ND	5,000	64.62/M	LNJ837W83RA
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	27.5	11.5	5	1.95	2.3	610	LNJ837W86RACT-ND	.40	.32	.22	LNJ837W86RATR-ND	5,000	85.00/M	LNJ837W86RA
	Blue	White Diffused	InGaN	40	10	5	-30 ~ 85	17	10	5	2.9	3.2	465	LNJ937W8CRACT-ND	.40	.34	.27	LNJ937W8CRATR-ND	5,000	100.01/M	LNJ937W8CRA
0603 (1608) Leadless Type - Wide Angle Dome Lens — RoHS Compliant																					
6	Green	—	InGaAIP	55	20	4	-30 ~ 85	7.5	3.2	5	1.95	2.3	572	P14140CT-ND	.42	.34	.24	P14140TR-ND	5,000	102.56/M	LNJ3W0C83RA
	Orange	—	InGaAIP	55	20	4	-30 ~ 85	17.5	9	5	1.95	2.3	620	P14141CT-ND	.42	.34	.24	P14141TR-ND	5,000	102.56/M	LNJ8W0C83RA

◆ ***RoHS Compliant*** ‡ Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

(Continued)

Fig. 7 — J-Lead-S Type

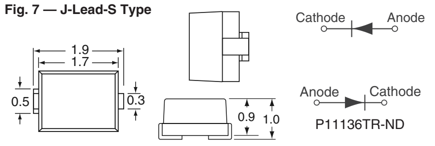

P11136TR-ND

Fig. 8 — Gull Wing-S Type

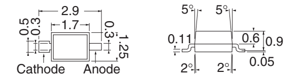

(Polarity Reversed on P493CT/TR-ND and P11505CT/TR-ND)

Fig. 9 — 1206 (3216) Leadless Type

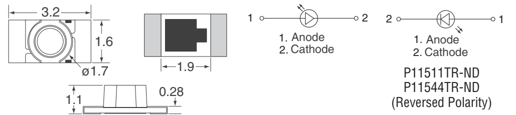

P11511TR-ND
P11544TR-ND
(Reversed Polarity)

Fig. 10 — 1206 (3216) Leadless Type, 30° Dome Lens

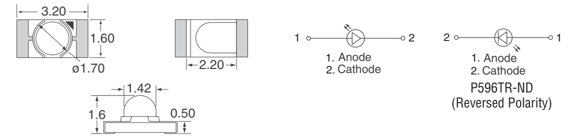

P596TR-ND
(Reversed Polarity)

Fig. 11 — Leadless-Side View

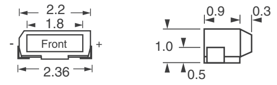

(P11139TR-ND Polarity Reversed)

Fig. 12 — Leadless-Side View

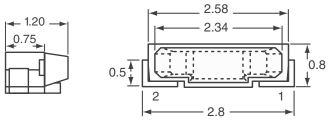

Fig.	Lighting Color	Lens	Process Tech.	Absolute Maximum Ratings				Io		Rated	VF (V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
0805 (2012) J-Lead S-J Type 2mm pitch Taping																					
7	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P11490CT-ND◆	.33	.30	.27	P11490TR-ND◆	6,000	99.00/M	LNJ206R5RRX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P11136CT-ND◆	.33	.31	.28	P11136TR-ND◆	6,000	113.00/M	LNJ206R5ARA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11491CT-ND	.35	.32	.29	P11491TR-ND	6,000	104.00/M	LNJ806K5SRX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11492CT-ND	.35	.32	.29	P11492TR-ND	6,000	104.00/M	LNJ406K5YRX
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P11137CT-ND◆	.33	.31	.28	P11137TR-ND◆	6,000	99.00/M	LNJ306G5URA
	Pure Green	Green Diffused	GaP	60	20	4	-25 ~ 85	0.65	0.25	10	2.03	2.6	555	P11493CT-ND◆	.38	.34	.31	P11493TR-ND◆	6,000	113.00/M	LNJ306G5PRX
Ultra Bright InGaAlP LED																					
7	Orange	Red Diffused	InGaAlP	50	20	4	-25 ~ 85	5	2	10	1.9	2.3	620	P11494CT-ND	.52	.42	.32	P11494TR-ND	6,000	133.24/M	LNJ806R58RX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25 ~ 85	8.5	3.5	10	2	2.3	595	P11495CT-ND	.52	.42	.32	P11495TR-ND	6,000	133.24/M	LNJ406K54RX
0805 (2012) J-Lead S-J Type 4mm pitch Taping																					
7	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P11496CT-ND◆	.33	.30	.27	P11496TR-ND◆	3,000	108.00/M	LNJ206R5RUX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	5	1.72	2.5	660	P11497CT-ND◆	.38	.34	.31	P11497TR-ND◆	3,000	124.00/M	LNJ206R5AUX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11498CT-ND	.35	.32	.29	P11498TR-ND	3,000	114.00/M	LNJ806K5SUX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11499CT-ND◆	.35	.32	.29	P11499TR-ND◆	3,000	114.00/M	LNJ406K5YUX
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	3.5	1.35	10	2.03	2.6	565	P11500CT-ND◆	.33	.30	.27	P11500TR-ND◆	3,000	108.00/M	LNJ306G5UUX
	Pure Green	Green Diffused	GaP	60	20	4	-25 ~ 85	0.65	0.25	10	2.03	2.6	555	P11501CT-ND◆	.38	.34	.31	P11501TR-ND◆	3,000	124.00/M	LNJ306G5PUX
Ultra Bright InGaAlP / GaN LED																					
7	Orange	Red Diffused	InGaAlP	50	20	4	-25 ~ 85	5	2	10	1.9	2.3	620	P11502CT-ND	.52	.42	.32	P11502TR-ND	3,000	138.99/M	LNJ806R58UX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25 ~ 85	8.5	3.5	10	2	2.3	595	P11503CT-ND	.52	.42	.32	P11503TR-ND	3,000	138.99/M	LNJ406K54UX
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	5.5	2	5	3.2	3.7	470	P11504CT-ND◆	4.15	3.90	3.64	P11504TR-ND◆	3,000	1895.00/M	LNJ906W5BUX
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping — RoHS Compliant																					
8	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P490CT-ND	—	.31	.28	P490TR-ND	6,000	99.00/M	LN1271RTR
	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P493CT-ND	—	.41	.37	P493TR-ND	6,000	113.00/M	LN1271RALTR
	Orange	Red Diffused	GaAsP	30	10	3	-30 ~ 85	1	0.4	5	1.8	2.4	630	P518CT-ND	.33	.31	.28	P518TR-ND	6,000	119.00/M	LN1871SRTR
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P492CT-ND	—	.31	.29	P492TR-ND	6,000	104.00/M	LN1871Y5TR
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11125CT-ND	.36	.33	.30	P11125TR-ND	6,000	104.00/M	LN1471YTR
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	1	0.4	5	1.9	2.4	590	P517CT-ND‡	.33	.31	.28	P517TR-ND‡	6,000	119.00/M	LN1471SYTR
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P491CT-ND	—	.31	.28	P491TR-ND	6,000	99.00/M	LN1371GTR
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	2	0.7	5	1.9	2.4	565	P516CT-ND‡	.33	.31	.28	P516TR-ND‡	6,000	113.00/M	LN1371SGTR
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	5	3	10	2.03	2.6	565	P494CT-ND	—	.33	.30	P494TR-ND	6,000	103.00/M	LNJ306G5TR02
0805 (2012) Gull Wing S-GW Type 4mm pitch Taping																					
8	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P11505CT-ND◆	.38	.34	.31	P11505TR-ND◆	3,000	124.00/M	LN1271RALTRP
	Orange	Red Diffused	GaAsP	30	10	3	-30 ~ 85	1	0.4	5	1.8	2.4	630	P11506CT-ND◆	.37	.33	.30	P11506TR-ND◆	3,000	119.00/M	LN1871SRTRP
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11507CT-ND	.35	.32	.29	P11507TR-ND	3,000	114.00/M	LN1871Y5TRP
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	1	0.4	5	1.9	2.4	590	P11508CT-ND◆	.35	.32	.29	P11508TR-ND◆	3,000	114.00/M	LN1471SYTRP
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P11509CT-ND◆	.33	.30	.27	P11509TR-ND◆	3,000	108.00/M	LN1371GTRP
	Yellow Green	Green Diffused	GaP	30	10	4	-25 ~ 85	2	0.7	5	1.9	2.4	565	P11510CT-ND◆	.35	.32	.28	P11510TR-ND◆	3,000	113.00/M	LN1371SGTRP
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	5	3	10	2.03	2.6	565	P11595CT-ND	.35	.32	.28	P11595TR-ND	3,000	113.00/M	LNJ306G5TUWQ
1206 (3216) Leadless with Flat Lens Type — RoHS Compliant																					
9	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	7	2.3	10	1.72	2.5	660	P11141CT-ND	.33	.31	.28	P11141TR-ND	3,000	138.00/M	LNJ211R8ARA
	Orange	Red Diffused	GaAsP	60	20	3	-30 ~ 85	1.8	0.7	10	1.93	2.6	630	P11526CT-ND	.39	.36	.32	P11526TR-ND	3,000	128.00/M	LNJ811R8DRA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11527CT-ND	.39	.36	.32	P11527TR-ND	3,000	128.00/M	LNJ811K8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	2.2	0.75	10	2	2.6	590	P11528CT-ND	.39	.36	.32	P11528TR-ND	3,000	128.00/M	LNJ411K8YRA
	Yellow Green	Green Diffused	GaP	60	20	4	-30 ~ 85	5.5	1.8	10	2.03	2.6	565	P11529CT-ND	.36	.33	.30	P11529TR-ND	3,000	118.00/M	LNJ311G8TRA
	Pure Green	Green Diffused	GaP	60	20	4	-30 ~ 85	0.7	0.25	10	2.03	2.6	555	P11531CT-ND	.42	.38	.35	P11531TR-ND	3,000	138.00/M	LNJ311G8PRA
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	7	2.3	10	1.72	2.5	660	P541CT-ND†	.33	.31	.28	P541TR-ND†	3,000	138.00/M	LNJ211R8ARU
	Orange	Red Diffused	GaAsP	60	20	3	-30 ~ 85	1.8	0.7	10	1.93	2.6	630	P11540CT-ND†	.39	.36	.32	P11540TR-ND†	3,000	128.00/M	LNJ811R8DRU
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	2.2	0.75	10	2	2.6	590	P11596CT-ND†	.39	.36	.32	P11596TR-ND†	3,000	128.00/M	LNJ411K8YRU
	Yellow Green	Green Diffused	GaP	60	20	4	-30 ~ 85	5.5	1.8	10	2.03	2.6	565	P540CT-ND†	.33	.31	.28	P540TR-ND†	3,000	118.00/M	LNJ311G8TRU
Ultra Bright InGaAlP / GaN LED																					
9	Ultra Bright Red	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11532CT-ND	.47	.38	.29	P11532TR-ND	3,000	124.49/M	LNJ211R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11533CT-ND	.41	.33	.25	P11533TR-ND	3,000	108.60/M	LNJ811R83RA
	Orange	Red Diffused	InGaAlP	50	20	4	-30 ~ 85	6.5	3.5	10	1.9	2.5	620	P11534CT-ND	.57	.46	.35	P11534TR-ND	3,000	151.49/M	LNJ811R88RA
	Soft Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	21	10	10	1.95	2.5	615	P11535CT-ND	.41	.33	.25	P11535TR-ND	3,000	108.60/M	LNJ811K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	17	9	10	2	2.5	595	P11536CT-ND	.57	.46	.35	P11536TR-ND	3,000	150.76/M	LNJ411K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-30 ~ 85	12	6.4	10	2.03	2.5	575	P11537CT-ND	.41	.33	.25	P11537TR-ND	3,000	108.60/M	LNJ311G83RA
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	8.5	4.5	5	3.2	3.7	470	P11539CT-ND	.65	.49	.37	P11539TR-ND	3,000	212.49/M	LNJ911W8BRA
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	14.4	5	3	3.7	525	P11538CT-ND	.83	.70	.56	P11538TR-ND	3,000	360.82/M	LNJ611W8WRA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	17	9	10	2	2.5	595	P11541CT-ND†	.57	.46	.35	P11541TR-ND†	3,000	150.76/M	LNJ411K84RU
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	8.5	4.5	5	3.2	3.7	470	P11543CT-ND†	.65	.49	.37	P11543TR-ND†	3,000	212.49/M	LNJ911W8BRU
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	14.4	5	3	3.7	525	P11542CT-ND†	.83	.70	.56	P11542TR-ND†	3,000	360.82/M	LNJ611W8WRU
1206 (3216) Leadless with Micro Lens Type — RoHS Compliant																					
9	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	10.5	4	10	1.72	2.5	660	P11511CT-ND	.42	.38	.35	P11511TR-ND	3,000	138.00/M	LNJ216C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	2.1	1.1	10	1.93	2.6	630	P11512CT-ND	.39	.36	.32	P11512TR-ND	3,000	128.00/M	LNJ816C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	1.5	0.8	10	1.93	2.6	610	P11513CT-ND	.39	.36	.32	P11513TR-ND	3,000	128.00/M	LNJ816C8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	3.3	1.2	10	2	2.6	590	P11514CT-ND	.39	.36	.32	P11514TR-ND	3,000	128.00/M	LNJ416Q8YRA
	Green	Green Diffused	GaP	60	20	4	-30 ~ 85	8.8	3.3	10	2.03	2.6	565	P11515CT-ND	.36	.33	.30	P11515TR-ND	3,000	118.00/M	LNJ316C8TRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	1	0.4	10	2.03	2.6	555	P11517CT-ND	.42	.38	.35	P11517TR-ND	3,000	138.00/M	LNJ316C8PRA
	Red	Clear Non Diffused	GaAlAs	60	20	3	-30 ~ 85	10.5	4	10	1.72	2.5	660	P11544CT-ND†	.42	.38	.35	P11544TR-ND†	3,000	138.00/M	LNJ216C8ARU
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	2.1	1.1	10	1.93	2.6	630	P11545CT-ND†	.39	.36	.32	P11545TR-ND†	3,000	128.00/M	LNJ816C8DRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	3.3	1.2	10	2	2.6	590	P11546CT-ND†	.39	.36	.32	P11546TR-ND†	3,000	128.00/M	LNJ416Q8YRU
	Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	8.8	3.3	10	2.03	2.6	565	P11547CT-ND†	.36	.33	.30	P11547TR-ND†	3,000	118.00/M	LNJ316C8TRU
Ultra Bright InGaAlP / GaN LED																					
9	Red	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	24	12.8	10	1.92	2.5	645	P11518CT-ND	.47	.38	.29	P11518TR-ND	3,000	124.49/M	LNJ216C82RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	48	25	10	2.03	2.5	630	P11519CT-ND	.40	.33	.25	P11519TR-ND	3,000	108.60/M	LNJ816C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	9.8	5.2	10	1.9	2.5	620	P11520CT-ND	.57	.46	.35	P11520TR-ND	3,000	151.49/M	LNJ816C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	30	16	10	1.95	2.5	615	P11521CT-ND	.41	.33	.25	P11521TR-ND	3,000	108.60/M	LNJ816C87RA

◆ ***RoHS Compliant*** ‡ Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 13 — Leadless-Side View

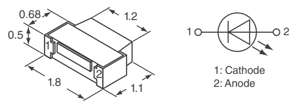

Fig. 14 — Leadless-Side View

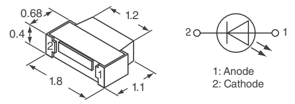

Fig. 15 — Gull Wing-GW Type

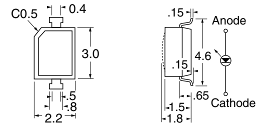

Fig. 16 — J-Lead-J Type

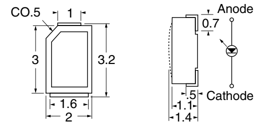

Fig. 17 — TSS Bi-Color Type

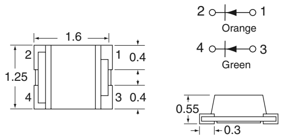

Fig. 18 — Gull Wing-S Type (Bi-Color)

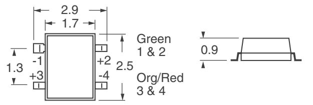

Fig. 19 — Gull Wing-GW Type (Bi-Color)

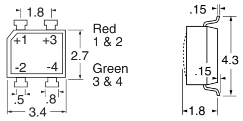

Fig. 20 — Dome Lens (Bi-Color)

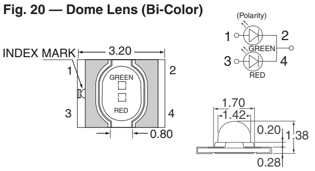

Fig.	Lighting Color	Lens	Process Tech.	Absolute Maximum Ratings				Io		Rated	VF (V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
9	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	26	13.8	10	2	2.5	595	P11522CT-ND	.57	.46	.35	P11522TR-ND	3,000	150.76/M	LNJ416C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	22	11	10	2.03	2.5	575	P11523CT-ND	.41	.33	.25	P11523TR-ND	3,000	108.60/M	LNJ316C83RA
	Blue	Clear Non Diffused	GaN	40	10	5	-25 ~ 85	12.8	6.8	15	3.2	3.7	470	P11525CT-ND	.65	.49	.37	P11525TR-ND	3,000	212.49/M	LNJ916C8BRA
	Pure Green	Clear Non Diffused	GaN	40	10	5	-25 ~ 85	51	27.2	5	3	3.7	525	P11524CT-ND	.83	.70	.56	P11524TR-ND	3,000	360.82/M	LNJ616C8WRA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	22	11	10	2.03	2.5	575	P11548CT-ND†	.41	.33	.25	P11548TR-ND†	3,000	108.60/M	LNJ316C83RU
1206 (3216) Leadless with Dome Lens Type (30 degree) — RoHS Compliant																					
10	High Bright Red	Clear	GaAlAs	60	20	3	-30 ~ 85	32	17	10	1.72	2.5	660	P596CT-ND	.73	.67	.61	P596TR-ND	2,000	196.19/M	LNJ218C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	9	4.5	20	1.93	2.6	630	P11563CT-ND	.50	.47	.43	P11563TR-ND	2,000	202.00/M	LNJ818C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	5	2.7	20	1.93	2.6	610	P11564CT-ND	.50	.47	.43	P11564TR-ND	2,000	202.00/M	LNJ818C8SRA
	Yellow Green	Clear	GaP	60	20	4	-30 ~ 85	25	10	10	2.03	2.6	565	P595CT-ND	.56	.52	.48	P595TR-ND	2,000	177.94/M	LNJ318C8TRA
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	7	3.7	20	2	2.6	590	P11565CT-ND	.50	.47	.43	P11565TR-ND	2,000	202.00/M	LNJ418Q8YRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	3.5	2	20	2.03	2.6	555	P11567CT-ND	.52	.49	.45	P11567TR-ND	2,000	212.00/M	LNJ318C8PRA
	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30 ~ 85	32	17	20	1.72	2.5	660	P11576CT-ND	.52	.49	.45	P11576TR-ND	2,000	212.00/M	LNJ218C8ARU
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	5	2.7	10	1.03	2.6	610	P11577CT-ND	.50	.47	.43	P11577TR-ND	2,000	202.00/M	LNJ818C8SRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	7	3.7	20	2	2.6	590	P11578CT-ND	.50	.47	.43	P11578TR-ND	2,000	202.00/M	LNJ418Q8YRU
Ultra Bright InGaAlP LED																					
10	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	75	40	20	1.92	2.5	645	P11568CT-ND	.52	.39	.30	P11568TR-ND	2,000	173.10/M	LNJ218C82RA
	Orange	Non Diffused	InGaAlP	55	20	4	-30 ~ 85	160	85	20	2.03	2.5	630	P11569CT-ND	.57	.46	.35	P11569TR-ND	2,000	158.76/M	LNJ818C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	33	17.6	20	1.9	2.5	620	P11570CT-ND	.63	.48	.36	P11570TR-ND	2,000	210.41/M	LNJ818C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	100	56	20	1.95	2.5	615	P11571CT-ND	.57	.46	.35	P11571TR-ND	2,000	158.76/M	LNJ818C87RA
	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	85	45	20	2	2.5	595	P11572CT-ND	.63	.48	.36	P11572TR-ND	2,000	210.41/M	LNJ418C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	110	58	20	2.03	2.5	575	P11573CT-ND	.57	.46	.35	P11573TR-ND	2,000	158.76/M	LNJ318C83RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	110	58	10	2.03	2.5	575	P11579CT-ND†	.57	.46	.35	P11579TR-ND†	2,000	158.76/M	LNJ318C83RU
Side Firing LED with Refractive Case																					
11	Red	Clear	GaP	60	20	4	-25 ~ 80	0.7	0.25	10	2.03	2.6	700	P11138CT-ND◆	.40	.37	.34	P11138TR-ND◆	3,000	163.00/M	LNJ210C6RRA
	High Bright Red	Clear	GaAlAs	60	20	3	-25 ~ 80	8	2.6	10	1.72	2.5	660	P11139CT-ND◆	.40	.37	.34	P11139TR-ND◆	3,000	182.00/M	LNJ210C6ARA
	Orange	Red Clear	GaAsP	60	20	3	-25 ~ 80	2.5	0.8	10	1.93	2.6	630	P519CT-ND◆	.39	.36	.33	P519TR-ND◆	3,000	172.00/M	LNJ810L6DRA
	Soft Orange	Red Clear Non Diff.	GaAsP	60	20	3	-25 ~ 85	1.8	0.75	10	1.93	2.6	610	P11580CT-ND	.53	.48	.43	P11580TR-ND	3,000	172.00/M	LNJ810L6SRA
	Amber	Yellow Clear	GaAsP	60	20	4	-25 ~ 80	2.5	0.8	10	2	2.6	590	P11140CT-ND◆	.40	.37	.34	P11140TR-ND◆	3,000	172.00/M	LNJ410Q6YRA
	Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	8	3	10	2.03	2.6	565	P520CT-ND◆	.39	.36	.33	P520TR-ND◆	3,000	163.00/M	LNJ310M6URA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-25 ~ 85	1.1	0.6	10	2.03	2.6	555	P11582CT-ND	.56	.50	.45	P11582TR-ND	3,000	182.00/M	LNJ310C6PRA
	White	White Diffused	GaN	120	30	5	-25 ~ 80	260	180	10	3.4	3.9	—	P12024CT-ND	5.77	5.39	4.88	—	—	—	LNJ010X6FRA
Ultra Bright InGaAlP LED																					
11	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	23	12	10	1.92	2.5	645	P11583CT-ND◆	.72	.68	.62	P11583TR-ND◆	3,000	293.00/M	LNJ210C62RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	48	25	10	2.03	2.5	630	P11584CT-ND	.72	.68	.62	P11584TR-ND	3,000	293.00/M	LNJ810C63RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	45	24	10	1.95	2.5	620	P11585CT-ND	.72	.68	.62	P11585TR-ND	3,000	293.00/M	LNJ810C68RA
	Soft Orange	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	30	12	10	1.95	2.5	615	P11586CT-ND	.72	.68	.62	P11586TR-ND	3,000	293.00/M	LNJ810C67RA
	Amber	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	22.5	8.5	10	2	2.5	595	P11587CT-ND	.72	.68	.62	P11587TR-ND	3,000	293.00/M	LNJ410C64RA
	Yellow Green	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	15	7.7	10	2	2.5	575	P11588CT-ND	.72	.68	.62	P11588TR-ND	3,000	293.00/M	LNJ310C63RA
Side View — RoHS Compliant																					
12	White Light	—	GaN	120	35	5	-30 ~ 85	—	1440	20	2.8	3.6	—	P14142CT-ND	.96	.81	.65	P14142TR-ND	3,000	416.65/M	LNJ080V6BRA
Leadless-Side View — RoHS Compliant																					
13	Red	White Diffused	InGaAlP	55	60	4	-30 ~ 85	15	8.0	10	1.92	2.5	645	P14131CT-ND	.41	.37	.34	P14131TR-ND	5,000	122.01/M	LNJ253W82RA
	Green	White Diffused	InGaAlP	55	60	4	-30 ~ 85	8.5	4.0	5	1.95	2.30	575	P14132CT-ND	.36	.33	.29	P14132TR-ND	5,000	106.41/M	LNJ353W83RA
	Amber	White Diffused	InGaAlP	55	60	4	-30 ~ 85	18.0	6.0	5	1.95	2.30	595	P14133CT-ND	.36	.33	.29	P14133TR-ND	5,000	106.41/M	LNJ453W82RA
	Orange	White Diffused	InGaAlP	55	60	4	-30 ~ 85	17.0	9.0	5	1.9	2.3	630	P14134CT-ND	.36	.33	.29	P14134TR-ND	5,000	106.41/M	LNJ853W83RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	9	7	5	1.95	2.3	610	P633CT-ND	.42	.34	.24	P633TR-ND	5,000	103.00/M	LNJ853W86RA
	White	White Diffused	GaN	40	10	5	-30 ~ 85	50	38	5	3.1	3.7	—	P14136CT-ND	.77	.58	.44	P14136TR-ND	5,000	245.19/M	LNJ053X8BRA3
14	Red	White Diffused	InGaAlP	55	20	4	-30 ~ 85	25.0	10.0	10	1.85	2.5	645	P14179CT-ND	.44	.37	.30	P14179TR-ND	5,000	110.25/M	LNJ252W82RA
	Amber	White Diffused	InGaAlP	55	20	4	-30 ~ 85	18.0	6.0	5	1.95	2.30	595	P14181CT-ND	.42	.34	.24	P14181TR-ND	5,000	102.56/M	LNJ452W82RA
	Orange	White Diffused	InGaAlP	55	20	4	-30 ~ 85	17.0	9.0	5	1.9	2.3	630	P14182CT-ND	.42	.34	.24	P14182TR-ND	5,000	102.56/M	LNJ852W83RA
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30 ~ 85	9.0	6.0	5	1.95	2.30	610	P14183CT-ND	.42	.34	.24	P14183TR-ND	5,000	102.56/M	LNJ852W86RA
	Blue	White Diffused	InGaN on SiC	80	20	5	-30 ~ 85	80.0	40.0	10	3.0	3.7	455	P14184CT-ND	.77	.58	.44	P14184TR-ND	5,000	245.20/M	LNJ952W8CRA1
	Yellow Green	White Diffused	InGaAlP	55	20	4	-30 ~ 85	8.5	4.0	5	1.95	2.30	575	P14180CT-ND	.42	.34	.24	P14180TR-ND	5,000	102.56/M	LNJ352W83RA
	White	White Diffused	GaN	70	20	5	-30 ~ 85	280	200	10	3.0	3.7	—	P14178CT-ND	.97	.74	.55	P14178TR-ND	3,000	316.67/M	LNJ052X8ARA
Gull Wing GW Type with Refractive Case																					
15	Red	Clear	GaP	60	20	4	-25 ~ 80	1.4	0.5	15	2.2	2.8	700	P503CT-ND◆	.33	.31	.28	P503TR-ND◆	2,000	128.00/M	LN1261CTR
	High Bright Red	Clear	GaAlAs	50	20	3	-25 ~ 80	12	5	20	1.8	2.6	660	P513CT-ND◆	.44	.41	.37	P513TR-ND◆	2,000	148.00/M	LN1261CALTR
	Orange	Clear	GaAsP	60	20	3	-25 ~ 80	5	1.9	20	2.1	2.8	630	P505CT-ND◆	.33	.31	.28	P505TR-ND◆	2,000	138.00/M	LN1861CTR
	Amber	Clear	GaAsP	60	20	4	-25 ~ 80	4.5	1.6	20	2.2	2.8	590	P512CT-ND◆	.34	.31	.29	P512TR-ND◆	2,000	138.00/M	LN1461CTR
	Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	7.5	2.8	20	2.2	2.8	565	P504CT-ND◆	.33	.31	.28	P504TR-ND◆	2,000	128.00/M	LN1361CTR
	High Bright Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	15	8	20	2.2	2.8	565	P514CT-ND◆	.38	.35	.32	P514TR-ND◆	2,000	128.00/M	LNJ361C3UR01
Ultra Bright InGaAlP LED																					
15	Amber	Clear	InGaAlP	50	20	4	-25 ~ 80	18	6.5	10	2	2.3	595	P11128CT-ND	.58	.53	.49	P11128TR-ND	2,000	276.00/M	LNJ461C34RA
1206 (3216) J-Lead J Type with Refractive Case																					
16	Red	Clear	GaAsP	45	15	4	-25 ~ 80	1.2	0.45	10	2.1	2.8	700	P500CT-ND◆	.33	.31	.28	P500TR-ND◆	3,000	128.00/M	LN1251CTR
	High Bright Red	Clear	GaAlAs	45	15	3	-25 ~ 80	9	3.3	10	1.75	2.6	660	P11126CT-ND◆	.44	.41	.38	P11126TR-ND◆	3,000	148.00/M	LN1251CALTR
	Orange	Clear	GaAsP	45	15	3	-25 ~ 80	3.5	1.3	10	0.05	2.8	630	P502CT-ND◆	.33	.31	.28	P502TR-ND◆	3,000	138.00/M	LN1851CTR
	Amber	Clear	GaAsP	45	15	4	-25 ~ 80	2.2	0.8	10	2.1	2.8	590	P511CT-ND◆	.33	.31	.28	P511TR-ND◆	3,000	138.00/M	LN1451CTR
	Yellow Green	Clear	GaP	45	15	4	-25 ~ 80	5	1.9	10	2.1	2.8	565	P501CT-ND◆	.33	.31	.28	P501TR-ND◆	3,000	128.00/M	LN1351CTR
Ultra Bright GaN LED																					
16	Blue	Clear	GaN	40	10	5	-25 ~ 80	9	3	5	3.2	3.7	470	P11127CT-ND◆	1.44	1.16	.87	P11127TR-ND◆	3,000	738.44/M	LNJ951C4BRA
	Pure Green	Clear	GaN	40	10	5	-25 ~ 80	60	32	5	3.0	3.7	525	P628CT-ND	1.44	1.16	.87	P628TR-ND	3,000	738.44/M	LNJ651C4WRA

◆ ***RoHS Compliant*** ‡ Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 21 — Leadless-Side View

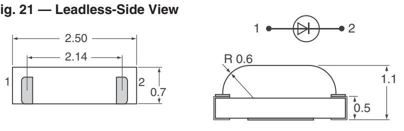

Fig. 22 — Leadless-Side View (Bi-Color)

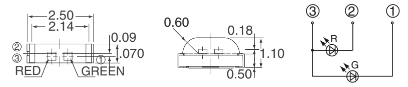

Fig. 23 — TSS Tri-Color Type

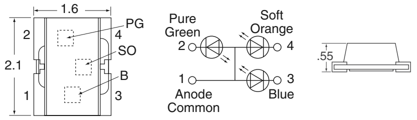

Fig. 24 — Leadless Tri-Color

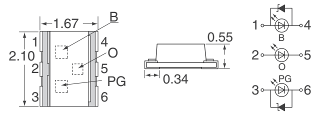

Fig. 25 — Leadless Tri-Color

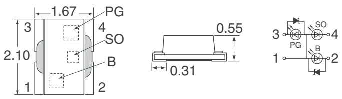

Fig. 26 – Leadless Tri-Color

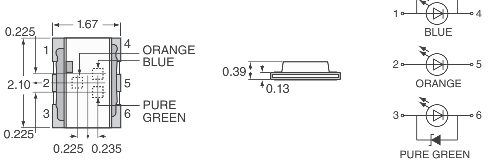

Fig.	Lighting Color	Lens	Process Tech.	Absolute Maximum Ratings				Io		Rated	VF (V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
Leadless TSS-Type Bi-Color — RoHS Compliant																					
17	Yellow Green Orange	White Diffused White Diffused	GaP GaAsP	60 60	20 20	4 3	-30 ~ 85 -30 ~ 85	5 1	1.8 0.4	10 10	2.03 1.93	2.6 2.6	565 630	P11142CT-ND	.80	.74	.67	P11142TR-ND	5,000	170.00/M	LNJ115W8ARA
	Yellow Green High Bright Red	White Diffused White Diffused	GaP GaAlAs	60 50	20 20	4 3	-30 ~ 85 -30 ~ 85	5 6.7	1.8 2.2	10 10	2.03 1.72	2.6 2.5	565 655	P11143CT-ND	.80	.74	.67	P11143TR-ND	5,000	188.00/M	LNJ115W8PRA
	High Bright Green High Bright Orange	White Diffused White Diffused	InGaAlP InGaAlP	55 55	20 20	4 4	-30 ~ 85 -30 ~ 85	15 32	9 17	10 10	2.03 2	2.5 2.5	575 630	P14161CT-ND	.94	.71	.53	P14161TR-ND	5,000	298.80/M	LNJ115W8RRA1
Ultra Bright InGaAlP / GaN LED Combination																					
17	Yellow Green Amber	White Diffused White Diffused	GaP InGaAlP	60 55	20 20	4 4	-30 ~ 85 -30 ~ 85	5 21	1.8 7	10 10	2.03 2.1	2.6 2.6	565 595	P11144CT-ND	.94	.71	.53	P11144TR-ND	5,000	298.80/M	LNJ115W88RA
	Yellow Green Soft Orange	White Diffused White Diffused	GaP InGaAlP	60 55	20 20	4 3	-30 ~ 85 -30 ~ 85	5 21	1.8 7	10 10	2.03 1.95	2.6 2.5	565 615	P11591CT-ND	.94	.71	.53	P11591TR-ND	5,000	298.80/M	LNJ115W89RA
	Pure Green High Bright Red	White Diffused White Diffused	GaN GaAlAs	40 55	10 20	5 3	-30 ~ 85 -30 ~ 85	34 6.7	12.9 2.8	5 10	3 1.72	3.7 2.5	525 655	P11590CT-ND	1.86	1.49	1.12	P11590TR-ND	5,000	930.82/M	LNJ115W86RA
	Pure Green Red	White Diffused White Diffused	GaN InGaAlP	65 55	15 20	5 4	-30 ~ 85 -30 ~ 85	40 24	15 12	5 10	2.9 1.92	3.2 2.5	520 645RA1	P14145CT-ND	.89	.74	.59	P14145TR-ND	5,000	376.13/M	LNJ115W87RA1
	Blue High Bright Red	White Diffused White Diffused	GaN GaAlAs	40 55	10 20	5 3	-30 ~ 85 -30 ~ 85	8.5 6.7	4 2.8	5 10	3.2 1.72	3.7 2.5	470 655	P11589CT-ND	1.86	1.49	1.12	—	—	—	LNJ115W8HRA
	Blue Red	White Diffused White Diffused	GaN InGaAlP	65 55	15 20	5 4	-30 ~ 85 -30 ~ 85	12 24	5 12	5 10	2.9 1.92	3.2 2.5	465 645	P14146CT-ND	.89	.74	.59	P14146TR-ND	5,000	376.13/M	LNJ115W85RA1
	Pure Green Soft Orange	White Diffused White Diffused	GaN InGaAlP	40 55	10 20	5 4	-30 ~ 85 -30 ~ 85	34 21	10.3 7	5 10	3 1.95	3.7 2.5	525 615	P11145CT-ND	1.86	1.49	1.12	P11145TR-ND	5,000	930.82/M	LNJ115W8VRA
	Pure Green Soft Orange	White Diffused White Diffused	GaN InGaAlP	65 55	15 20	5 4	-30 ~ 85 -30 ~ 85	40 21	15 8.7	5 10	2.9 1.95	3.2 2.5	520 615	P14147CT-ND	.89	.74	.59	P14147TR-ND	5,000	376.13/M	LNJ115W8VRA1
S-GW Gull Wing Type Bi-Color — RoHS Compliant																					
18	High Bright Yellow Green	White Diffused White Diffused	GaP GaP	60 60	20 20	4 4	-25 ~ 85 -25 ~ 85	5 5	3 3	10 10	2.03 2.03	2.6 2.6	565 565	P526CT-ND	.75	.69	.63	P526TR-ND	3,000	237.00/M	LNJ107W5PRW
	High Bright Red Yellow Green Orange	White Diffused White Diffused White Diffused	GaAlAs GaP GaAsP	60 60 60	20 20 20	3 4 3	-25 ~ 85 -25 ~ 85 -25 ~ 85	5 2.6 1	1.7 0.9 0.4	10 10 10	1.72 2.03 1.93	2.5 2.6 2.6	660 565 630	P515CT-ND	.75	.69	.63	P515TR-ND	3,000	217.00/M	LNJ107W5ARA1
Gull Wing Type Bi-Color with Refractive Case																					
19	Pure Green Orange	Clear Clear	GaAsP GaAsP	45 45	15 15	3 3	-25 ~ 65 -25 ~ 65	2.5 2.1	1.2 0.8	10 10	2.05 1.95	2.8 2.8	555 630	P11147CT-ND	.80	.74	.67	P11147TR-ND	1,000	256.00	LN2162C68TR
Dome Lens Leadless Bi-Color LED — RoHS Compliant																					
20	Yellow/Green High Bright Red	White Diffused White Diffused	GaP InGaAlP	60 55	20 20	4 4	-30 ~ 85 -30 ~ 85	10 13.4	5 7	10 10	2.03 1.92	2.6 2.5	565 645	P594CT-ND	.53	.49	.45	P594TR-ND	2,500	233.97/M	LNJ121W84RA
Side View Smaller Size Leadless LED — RoHS Compliant																					
21	Blue	White Diffused	GaN	65	15	5	-30 ~ 85	25	10	5	3	3.4	467	P632CT-ND	.77	.65	.52	—	—	—	LNJ923W8BRA
	Blue	White Diffused	InGaN	90	25	5	-30 ~ 85	18	10	5	2.9	3.2	472	P14150CT-ND	.59	.45	.34	P14150TR-ND	4,000	191.69/M	LNJ923W8CRA1
Side View Smaller Size Leadless Bi-Color LED — RoHS Compliant																					
22	Yellow/Green High Bright Red	White Diffused White Diffused	GaP GaAlAs	60 50	20 20	4 3	-30 ~ 85 -30 ~ 85	5 4	1.8 1.5	10 10	2.03 1.72	2.6 2.5	565 655	P593CT-ND	.53	.49	.45	P593TR-ND	4,000	233.97/M	LNJ123W8PRZ
Tri-Color Leadless LED Ultra Bright LED Combination — RoHS Compliant																					
23	Blue Pure Green Soft Orange	White Diffused White Diffused White Diffused	InGaN InGaN InGaAlP	40 40 55	10 10 20	5 5 4	-30 ~ 85 -30 ~ 85 -30 ~ 85	8.5 34 23	3.2 10.3 7	5 5 10	3.2 3 1.95	3.7 3.7 2.5	470 525 615	P11146CT-ND	11.12	10.20	9.27	P11146TR-ND	2,000	4533.00/M	LNJ717W80RA
24	Blue Pure Green Orange	White Diffused White Diffused White Diffused	GaN GaN InGaAlP	65 65 70	15 15 20	4 4 4	-30 ~ 85 -30 ~ 85 -30 ~ 85	35 85 45	10 50 15	5 5 10	3.1 3.1 2	3.7 3.7 2.5	470 525 630	P11592CT-ND	2.27	1.82	1.37	—	—	—	LNJ717W83RAS
25	Blue Pure Green Soft Orange	White Diffused White Diffused White Diffused	GaN GaN InGaAlP	65 65 70	15 15 20	4 4 4	-30 ~ 85 -30 ~ 85 -30 ~ 85	30 85 45	18 50 20	5 5 10	3.1 3.1 1.95	3.7 3.7 2.5	470 525 615	P11593CT-ND	2.27	1.82	1.37	P11593TR-ND	2,000	1179.95/M	LNJ717W80RA1
26	Blue Pure Green Orange	White Diffused White Diffused White Diffused	GaN GaN InGaAlP	65 65 55	15 15 20	4 4 4	-30 ~ 85 -30 ~ 85 -30 ~ 85	15 80 20	5 60 20	5 5 10	3.1 3.1 2	3.8 3.8 2.5	470 525 630	P14148CT-ND	1.28	1.03	.77	P14148TR-ND	2,000	666.64/M	LNJ727W83RAA

◆ ***RoHS Compliant*** ‡ Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

LED Numeric Displays

P358-P360

Dimensions in mm

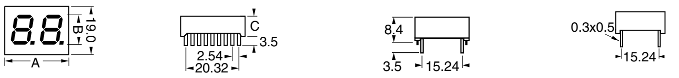

Size	Dim. A	Dim. B	Dim. C
.57	25.1	14.4	8.0

		Absolute Maximum Ratings (Ta = 25°C)				Characteristics (Ta = 25°C)					Digi-Key	Pricing				Panasonic
Color	Size	VR (V)	IF (mA)	IFP† (mA)	PD (mW)	at IF (mA)	IO Typ. (seg.) (µcd)	Typ. (D.P.) (µcd)	at IF (mA)	VF Typ. (V)	Part No. Common Cathode	1	10	200	1,000	Part No. Common Cathode
Amber	.57	5	20	100	60	10	800	300	20	2.2	P360-ND	2.97	27.00	464.40	1998.68	LN526YK

† The condition of I_{FP} is duty 10%, pulse width is 1 msec.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Blue LEDs

High Brightness

Max Ratings:

Power Consumption: 120mW
Forward Current: 30mA
Reverse Voltage: 5V
Operating Ambient Temperature: -25~80°C
Storage Temperature: -30~100°C
Water clear lens when off.

Blue LED Precautions in Handling:

A blue LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the blue LED, its energy damages the LED.

Fig. 1 – T-1¾

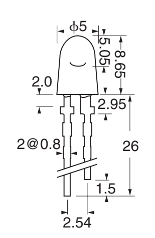

Fig. 2 – T-1¾

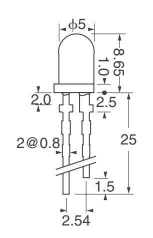

Fig. 3 – T-1¾

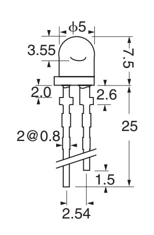

	Io								IR								
				VF (V)							Viewing		Pricing				
Fig.	**mcd Typ**	**mcd Min**	**(mA) I_F**	**Max**	**Typ**	**λp Typ**	**Δλ Typ**	**(mA) I_F**	**(μA) Max**	**(V) V_R**	**Angle (deg)**	**Digi-Key Part No.**	**1**	**10**	**200**	**1,000**	**Panasonic Part No.**
1	1500	640	20	4.0	3.5	470	30	20	10	5	15	P465-ND	1.69	13.48	202.25	876.40	LNG992CFBW
2	650	260	20	4.0	3.5	470	30	20	10	5	30	P466-ND	1.69	13.48	202.25	876.40	LNG901CFBW
3	350	140	20	4.0	3.5	470	30	20	10	5	45	P467-ND	1.69	13.48	202.25	876.40	LNG91LCFBW

LEDs

Fig. 1 – T-1

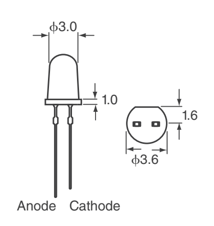

Fig. 2 – T-1

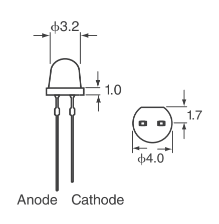

Fig. 3 – T-1½

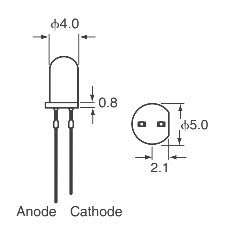

Fig. 4 – T-1¾

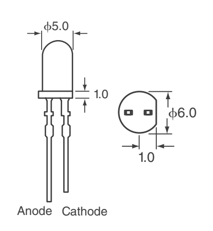

Fig. 5 – T-1¾

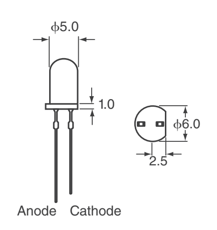

			Electro-Optical Character (Ta=25°C)					Dimensions (mm)				Pricing				
Fig.	**Lens Size**	**Color**	**PD (mW)**	**IF (mA)**	**VR (V)**	**IO (mcd)**	**λp (nm)**	**Lens Height**	**Lead Length**	**Lead Spacing**	**Digi-Key Part No.**	**10**	**200**	**1,000**	**5,000**	**Panasonic Part No.**
1	ϕ3.0	Red Diffused	70	25	4	2.8	700	5.5	26.5, 28.0	2.54	P563-ND	2.24	36.00	124.62	114.82/M	LN28RPX
	ϕ3.0	Green Diffused	90	30	4	10.0	565	5.5	26.5, 28.0	2.54	P564-ND	2.84	45.57	139.01	128.08/M	LN38GPX
	ϕ3.0	Amber Diffused	90	30	4	5.0	590	5.5	26.5, 28.0	2.54	P565-ND	3.50	60.20	187.32	171.29/M	LN48YPX
	ϕ3.0	Orange Red Diffused	90	30	3	5.0	630	5.5	26.5, 28.0	2.54	P566-ND	3.18	51.07	155.79	143.54/M	LN88RPX
	ϕ3.0	Clear Red Diffused	70	25	4	3.0	700	5.5	26.5, 28.0	2.54	P606-ND	1.87	31.11	105.76	99.54/M	LN28RCPX
	ϕ3.0	Clear Green Diffused	90	30	4	8.0	565	5.5	26.5, 28.0	2.54	P607-ND	2.15	34.50	112.64	103.78/M	LN38GCPX
	ϕ3.0	Clear Amber Diffused	90	30	4	15.0	590	5.5	26.5, 28.0	2.54	P608-ND	2.24	36.00	122.23	112.61/M	LN48YCPX
2	ϕ3.2	Red Diffused	70	25	4	1.0	700	4.6	24.5, 26.0	2.54	P567-ND	2.70	43.44	131.81	121.45/M	LN276RPX
	ϕ3.2	Red Clear	70	25	4	1.5	700	4.6	24.5, 26.0	2.54	P568-ND	2.70	43.44	131.81	121.45/M	LN276RCX
	ϕ3.2	Green Diffused	90	30	4	5.0	565	4.6	24.5, 26.0	2.54	P569-ND	2.84	45.57	139.01	128.08/M	LN376GPX
	ϕ3.2	Green Clear	90	30	4	15.0	565	4.6	24.5, 26.0	2.54	P570-ND	2.84	45.57	139.01	128.08/M	LN376GCPX
	ϕ3.2	Green Clear	90	30	4	30.0	565	4.6	26.5, 28.0	2.54	P14228-ND	4.23	63.46	187.57	179.82/M	LN376GCPXUY
	ϕ3.2	Orange Red Clear	90	30	3	10.0	630	4.6	24.5, 26.0	2.54	P571-ND	3.18	51.07	155.79	143.54/M	LN876RCPX
3	ϕ4.0	Red Diffused	70	25	4	2.0	700	6.0	26.45, 27.95	2.54	P572-ND	2.24	36.00	124.62	114.82/M	LN29RPX
	ϕ4.0	Green Diffused	90	30	4	6.0	565	6.0	26.45, 27.95	2.54	P573-ND	2.84	45.57	139.01	128.08/M	LN39GPX
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	26.45, 27.95	2.54	P574-ND	3.50	60.20	187.32	171.29/M	LN49YPX
	ϕ4.0	Clear Red Diffused	70	25	4	3.5	700	6.0	26.5, 28.0	2.54	P602-ND	1.87	31.11	105.76	99.54/M	LN29RCPX
	ϕ4.0	Clear Green Diffused	90	30	4	20.0	565	6.0	26.5, 28.0	2.54	P603-ND	2.15	34.50	112.64	103.78/M	LN39GCPXUY
4	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P374-ND	1.68	27.00	107.85	99.37/M	LN21RPH
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	25.0, 26.5	2.54	P375-ND	2.15	34.50	112.64	103.78/M	LN31GPH
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	25.0, 26.5	2.54	P372-ND	2.24	36.00	122.23	112.61/M	LN41YPH
	ϕ5.0	Orange Red Diffused	90	30	3	10.0	630	8.65	25.0, 26.5	2.54	P373-ND	2.24	36.00	122.23	112.61/M	LN81RPH
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P581-ND	2.15	34.51	119.83	110.41/M	LN21RCPH
	ϕ5.0	Red Diffused‡	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P582-ND	2.15	34.51	119.83	110.41/M	LN21WPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P583-ND	2.15	34.51	119.83	110.41/M	LN21CPH
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ5.0	Green Yellow Clear	90	30	4	56.0	563	8.65	25.0, 26.5	2.54	P585-ND	2.70	43.41	127.03	117.04/M	LN31YCPH
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	25.0, 26.5	2.54	P586-ND	2.75	44.23	129.42	119.24/M	LN41YCPH
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	25.0, 26.5	2.54	P587-ND	2.80	45.02	136.62	125.87/M	LN81RCPH
	ϕ5.0	Orange Red Clear†	90	30	3	25.0	630	8.65	25.0, 26.5	2.54	P588-ND	2.80	45.02	136.62	125.87/M	LN81CPH
5	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	27.0, 28.5	2.54	P589-ND	2.24	36.00	124.62	114.82/M	LN21RPX
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	27.0, 28.5	2.54	P590-ND	2.70	43.41	127.03	117.04/M	LN31GPX
	ϕ5.0	Orange Red Diffused	90	30	3	10.0	630	8.65	26.5, 28.0	2.54	P601-ND	2.24	36.00	122.23	112.61/M	LNG801RKD
	ϕ5.0	Amber Diffused	90	30	4	15.0	590	8.65	27.0, 28.5	2.54	P600-ND	2.24	36.00	122.23	112.61/M	LNG401YKX
	ϕ5.0	Red Diffused	70	25	4	4.0	700	7.5	26.5, 28.0	2.54	P598-ND	2.52	40.97	125.79	115.01/M	LNG21LRKR
	ϕ5.0	Green Diffused	90	30	4	20.0	565	7.5	26.5, 28.0	2.54	P599-ND	2.56	41.76	128.22	117.24/M	LN31GPSLX

† Water clear lens when off ‡ White diffused lens when off

Panasonic® Designer LEDs

Fig. 1

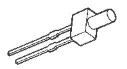

Fig. 2

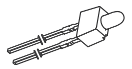

Fig. 3

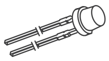

Fig. 4

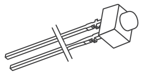

Fig. 5

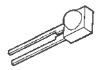

Fig. 6

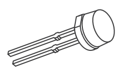

Fig. 7

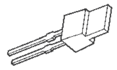

Fig. 8

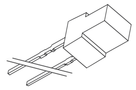

Fig. 9

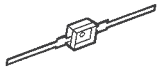

Fig. 10

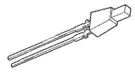

Fig. 11

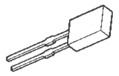

Fig. 12

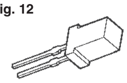

Fig. 13

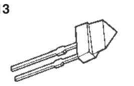

Fig. 14

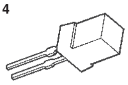

Fig. 15

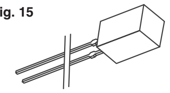

Fig. 16

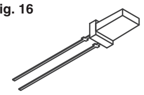

Fig.	Lens Size (mm)	Color	Process Technology	Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)		Lead Spacing	Digi-Key Part No.	Pricing			Panasonic Part No.
				PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Lens Height	Lead Length			10	200	1,000	
1	ϕ2.0	Red Diffused	GaP	70	25	4	1.0	700	8.0	27.0, 28.5	2.54	P544-ND◆	3.50	60.20	187.32	LN222RPH
	ϕ2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P545-ND◆	3.50	60.20	187.32	LN322GPH
	ϕ2.0	Amber Diffused	GaAsP	90	30	4	2.5	590	8.0	27.0, 28.5	2.54	P546-ND◆	3.60	61.92	192.66	LN422YPH
	ϕ2.0	Red Diffused	GaP	70	25	4	0.6	700	8.0	27.0, 28.5	2.54	P612-ND◆	2.15	34.51	119.83	LN222RPX
	ϕ2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P613-ND◆	2.24	36.00	143.79	LN322GPX
	ϕ2.0	Amber Diffused	GaAsP	90	30	4	4.0	590	8.0	27.0, 28.5	2.54	P614-ND◆	2.75	44.23	146.20	LNG422YKY
2	ϕ2.0	Red Diffused	GaP	70	25	4	1.0	700	7.7	32.0, 33.5	2.54	P547-ND◆	3.50	60.20	187.32	LN282RPX
	ϕ2.0	Green Diffused	GaP	90	30	4	1.2	565	7.7	32.0, 33.5	2.54	P548-ND◆	3.50	60.20	187.32	LN382GPX
	ϕ2.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.7	32.0, 33.5	2.54	P549-ND◆	3.50	60.20	214.07	LN482YPX
	ϕ2.0	Orange/Red Diff	GaAsP	90	30	3	6.0	630	7.7	32.0, 33.5	2.54	P550-ND	3.50	60.20	214.07	LN882RPX
	ϕ2.6	Red Diffused	GaP	70	25	4	1.0	700	8.0	27.0, 28.5	2.54	P14221-ND◆	4.62	69.23	204.62	LN221RPH
3	ϕ3.0	Red Diffused	GaP	70	25	4	0.7	700	3.8	24.5, 26.0	2.54	P551-ND◆	2.80	45.02	136.62	LN277RPX
	ϕ3.0	Green Diffused	GaP	90	30	4	5.0	565	3.8	24.5, 26.0	2.54	P552-ND◆	2.84	45.57	139.01	LN377GPX
	ϕ3.0	Orange/Red Diff	GaAsP	90	30	3	5.0	630	3.8	24.5, 26.0	2.54	P553-ND◆	3.18	51.07	155.79	LN877RPX
4	ϕ3.0	Red Diffused	GaP	70	25	4	2.0	700	6.0	27.0, 28.5	2.54	P554-ND◆	2.70	43.44	131.81	LN238RPH
	ϕ3.0	Green Diffused	GaP	90	30	4	4.0	565	6.0	27.0, 28.5	2.54	P555-ND◆	2.84	45.57	139.01	LN338GPH
	ϕ3.0	Amber Diffused	GaAsP	90	30	4	3.0	590	6.0	27.0, 28.5	2.54	P556-ND◆	3.50	60.20	187.32	LN438YPH
5	ϕ3.5	Orange Diffused	GaAsP	90	30	3	1.5	630	2.3	12.5, 12.5	2.54	P444-ND	3.92	63.00	191.73	LN85RP
6	ϕ4.4	Red Diffused	GaP	70	25	4	0.8	700	5.0	27.3, 28.8	2.54	P559-ND◆	2.80	45.02	136.62	LN240RPX
	ϕ4.4	Green Diffused	GaP	90	30	4	2.5	565	5.0	27.3, 28.8	2.54	P560-ND◆	2.84	45.57	139.01	LN340GPX
	ϕ4.4	Orange/Red Diff	GaAsP	90	30	3	4.5	630	5.0	27.3, 28.8	2.54	P561-ND	3.18	51.07	155.79	LN840RPX
7	□ 5.0 x 1.0	Amber Diffused	GaAsP	90	30	4	2.0	590	8.5	13.0, 14.5	2.54	P317-ND◆	2.75	44.23	129.42	LN424YP
	□ 5.0 x 1.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.0, 27.5	2.54	P14222-ND◆	4.62	69.23	204.62	LN224RPH
	□ 5.0 x 1.0	Green Diffused	GaP	90	30	4	2.5	565	8.5	26.0, 27.5	2.54	P14226-ND◆	5.00	75.00	221.67	LN324GPH
	□ 5.0 x 1.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P616-ND◆	2.24	36.00	117.44	LN324GPXB
8	□ 7.0 x 3.0	Red Diffused	GaP	70	25	4	0.5	700	10.0	27.0, 28.5	2.54	P14220-ND◆	4.62	69.23	204.62	LN216RPH
	□ 7.0 x 3.0	Green Diffused	GaP	90	30	4	1.5	565	10.0	26.0, 27.5	2.54	P14225-ND◆	5.00	75.00	221.67	LN316GPH
9	□ 2.5 x 1.7	Red Clear†	GaP	60	20	4	1.5	700	—	8.5 Typ.	—	P417-ND◆	2.80	45.00	150.99	LN01201C
	□ 2.5 x 1.7	Green Clear†	GaP	60	20	4	10.0	565	—	8.5 Typ.	—	P418-ND◆	3.08	49.50	150.99	LN01301C
	□ 2.5 x 1.7	Amber Clear†	GaAsP	60	20	4	5.0	590	—	8.5 Typ.	—	P419-ND◆	3.36	54.00	162.97	LN01401C
	□ 2.5 x 1.7	Orange Clear†	GaAsP	60	20	4	8.0	630	—	8.5 Typ.	—	P420-ND◆	3.36	54.00	162.97	LN01801C
10	□ 1.8 x 1.8	Red Diffused	GaP	80	25	4	0.5	700	10.0	25.5, 27.0	2.54	P385-ND	2.15	34.51	115.05	LN265RPH
	□ 1.8 x 1.8	Green Diffused	GaP	90	30	4	1.0	565	10.0	25.5, 27.0	2.54	P386-ND	2.24	36.00	122.23	LN365GPH
	□ 1.8 x 1.8	Amber Diffused	GaP	90	30	4	2.5	590	10.0	25.5, 27.0	2.54	P387-ND◆	1.94	31.16	115.44	LN465YPH
11	□ 3.0 x 2.0	Red Diffused	GaP	70	25	4	0.7	700	4.0	26.5, 28.0	2.54	P14224-ND◆	3.85	57.69	170.52	LN260RPX
	□ 5.0 x 2.0	Orange Diffused	GaAsP	90	30	3	2.5	630	7.5	14.5, 16.0	2.54	P440-ND	3.14	50.54	129.42	LN842RP
	□ 5.0 x 2.0	Red Diffused	GaP	70	25	4	0.4	700	7.5	26.5, 28.0	2.54	P617-ND◆	2.15	34.51	115.05	LN242RPX
	□ 5.0 x 2.0	Red Diffused	GaP	70	25	4	0.4	700	7.5	26.5, 28.0	2.54	P14223-ND◆	4.62	69.23	204.62	LN242RPH
	□ 5.0 x 2.0	Green Diffused	GaP	90	30	4	1.5	565	7.5	26.5, 28.0	2.54	P618-ND◆	2.24	36.00	117.44	LN342GPX
	□ 5.0 x 2.0	Green Diffused	GaP	90	30	4	1.5	565	7.5	26.5, 28.0	2.54	P14227-ND◆	5.00	75.00	221.67	LN342GPH
	□ 5.0 x 2.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.5	26.5, 28.0	2.54	P619-ND◆	2.75	44.23	129.42	LNG442YKX
	□ 5.0 x 2.0	Orange/Red Diffused	GaAsP	90	30	3	2.5	630	7.5	26.5, 28.0	2.54	P620-ND◆	2.75	44.23	129.42	LN842RPX
12	□ 4.0 x 4.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.5, 28.0	2.54	P624-ND◆	2.15	34.51	115.05	LN252RPX
	□ 4.0 x 4.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P625-ND◆	2.24	36.00	117.44	LN352GPX
	□ 4.0 x 4.0	Amber Diffused	GaAsP	90	30	4	1.5	590	8.5	26.5, 28.0	2.54	P626-ND◆	2.75	44.23	129.42	LN452YPX
13	Δ 4.5 x 4.0	Green Diffused	GaP	90	30	4	5.0	565	5.5	26.5, 28.0	2.54	P627-ND◆	2.24	36.00	117.44	LNG312GKG
14	□ 5.0 x 5.0	Red Diffused	GaP	70	25	4	0.4	700	9.0	26.5, 28.0	2.54	P621-ND◆	2.15	34.51	115.05	LN250RPH
	□ 5.0 x 5.0	Green Diffused	GaP	90	30	4	2.0	565	9.0	26.5, 28.0	2.54	P622-ND◆	2.24	36.00	117.44	LN350GPH
	□ 5.0 x 5.0	Amber Diffused	GaAsP	90	30	4	1.5	590	9.0	26.5, 28.0	2.54	P623-ND◆	2.75	44.23	129.42	LN450YPH
15	□ 5.0 x 5.0	Orange/Red Diffused	GaAsP	90	30	3	3.0	630	7.4	26.5, 28.0	2.54	P14229-ND◆	3.85	57.69	170.52	LN873RPX
16	□ 5.3 x 1.8	Red Diffused	GaP	70	25	4	0.6	700	8.0	28.0, 29.5	2.54	P609-ND◆	2.15	34.51	115.05	LN217RPH
	□ 5.3 x 1.8	Green Diffused	GaP	90	30	4	1.5	565	8.0	28.0, 29.5	2.54	P610-ND◆	2.24	36.00	117.44	LN317GPH
	□ 5.3 x 1.8	Amber Diffused	GaAsP	90	30	4	1.5	590	8.0	28.0, 29.5	2.54	P611-ND	2.15	34.51	115.05	LN417YPH

◆ ***RoHS Compliant*** † Water Clear Lens when off

LEDs — Level Meters

Fig. 1

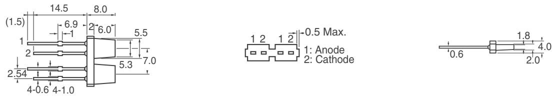

Fig. 2 – 2.8mm Round

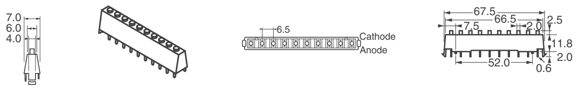

Fig.	Package Elements	Color (Diffused)	Electro-Optical Characteristics (Ta=25°C)						Dimensions (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
			PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Lens Height	Lead Length		1	10	200	
1	3	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P520-ND	.98	.90	.77	LN03302P
	3	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P521-ND	.98	.90	.77	LN03402P
	6	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P530-ND	1.95	1.78	1.53	LN06402P
2	—	Green	90	4	30	1.0	565	Ø2.0	2.5	2.0	P401-ND	3.85	3.50	3.01	LN10304P

High Brightness LEDs

Fig. 1

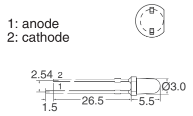

Fig. 2

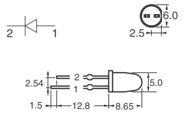

Fig. 3

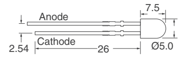

Fig. 4

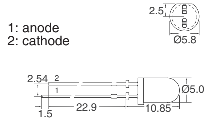

Fig.	Package	Color (Diffused)	IO (mcd @ 5mA) Typ.	Electro-Optical Characteristics (Ta=25°C)						Dimensions (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Lens Height	Lead Length		1	10	200	
1	T-1	Red†	5.5	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P604-ND◆	.38	.35	.31	LN28CALXU
	T-1	Red	3.8	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P605-ND◆	.38	.35	.31	LN28RALXU
2	T-13/4	Red†	470	70	3	30	2000	665	Ø5.0	8.65	12.0, 13.5	P408-ND	.96	.88	.76	LN261CALUR
3	T-13/4	Green†	—	90	4	30	120	565	Ø5.0	7.5	26, 27.5	P461-ND◆	.30	.28	.24	LNG305CFT
4	T-13/4	Red†	160	120	3	50	630	660	Ø5.0	8.25	22.9, 24.4	P597-ND◆	.69	.63	.54	LN289CUQ

◆ *RoHS Compliant* † Nondiffused lens. Water clear lens when off.

Optoelectronics LEDs — Two Color

RoHS COMPLIANT

Fig. 1

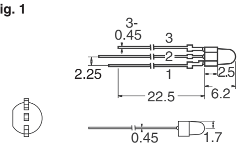

Fig. 2

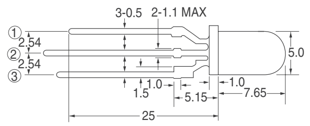

Fig. 3

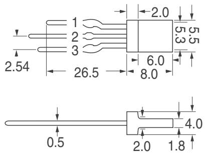

Fig. 4

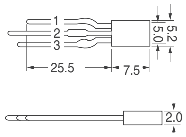

Fig.	Radiation Color/ Lens Color	Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)		Digi-Key Part No.	Pricing				Panasonic Part No.
		PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Lens Size	Lead Length		1	10	200	1,000	
1	*1. Green/3. Orange/White Diffused	90/90	30/30	4/3	8.0/8.0	565/630	Ø3.0	22.5, 24.5, 26.5	P509-ND	.66	6.00	103.20	240.84	LN086WP38
2	*1. Green/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P391-ND	.59	5.40	92.88	240.84	LN11WP23
	*1. Green/3. Red/Clear	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P392-ND	.59	5.40	92.88	240.84	LN11CP23
	*1. Amber/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P393-ND	.66	6.00	103.20	240.84	LN11WP24
	*1. Amber/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P395-ND	.66	6.00	103.20	240.84	LN11WP34
	*1. Orange/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P399-ND	.66	6.00	103.20	240.84	LN11WP38
3	*1. Green/3. Red/White Diffused	70/90	25/30	4/4	.6/4.5	700/565	□1.8x5.3	26.5, 28.0, 29.5	P435-ND	.59	5.40	92.88	240.84	LN117WP23
4	*1. Orange/3. Green/White Diffused	90/90	30/30	4/3	3/2.5	565/630	□2.0x5.0	25.5, 27.0, 28.5	P436-ND	.66	6.00	103.20	240.84	LN142WP38

* Common Cathode

Wide Angle LEDs

RoHS COMPLIANT

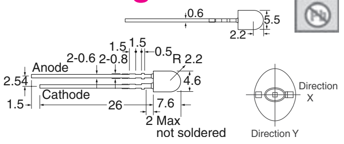

Color	Io								IR		Viewing Angle (deg)		IFDC Max	IFP‡ Max	Digi-Key Part No.	Pricing			Panasonic Part No.
	mcd Typ	mcd Min	(mA) IF	VF (V) Max	VF (V) Typ	λp Typ	Δλ Typ	(mA) IF	(μA) Max	(V) VR	x	y				1	10	200	
Red	300	120	20	2.6	1.8	660	20	20	100	3	15	35	30	150	P462-ND	.59	5.40	92.88	LNG295LFCP2U
Green	120	75	20	2.8	2.2	565	30	20	10	4	17	35	30	150	P463-ND	.30	2.75	47.30	LNG395MFTP5U

‡ The condition of IFP is duty 10%, pulse width 1ms.